Stantec

2023 BOND

FORT BEND INDEPENDENT SCHOOL DISTRICT

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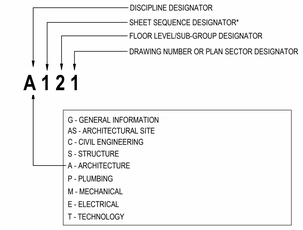
SHEET NUMBERING KEY:



*SHEET SEQUENCE DESIGNATOR - ARCHITECTURE KEY

0 - GENERAL ARCHITECTURAL INFORMATION
ASD - ARCHITECTURAL SITE DEMOLITION
AS - ARCHITECTURAL SITE
AD - ARCHITECTURAL DEMOLITION
1 - FLOOR PLAN / ROOF PLAN
2 - ELEVATIONS
3 - EXTERIOR SECTIONS AND DETAILS, INCLUDING ROOF DETAILS; PLAN DETAILS
4 - STAIR, ELEVATOR, TOILET ROOM, AND OTHER ENLARGED PLANS
5 - SCHEDULES
6 - REFLECTED CEILING PLANS
7 - INTERIOR FIT OUT (FINISHES, MILLWORK, AND CASEWORK)
8 - INTERIOR ELEVATIONS AND DETAILS

LOCATION MAP:

VICINITY MAP:

NOTE: RENDERINGS ON THIS PAGE FOR ILLUSTRATIVE PURPOSES ONLY. REFERENCE DETAILED AND DIMENSIONED DRAWINGS FOR THE CONTRACT INTENT.

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

100% ISSUE FOR BID AND PERMIT
09.24.2025

Stantec Project Number: 214001246
Client Project Number: ####

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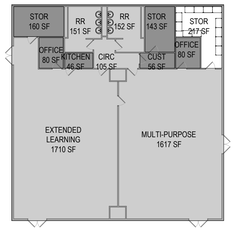
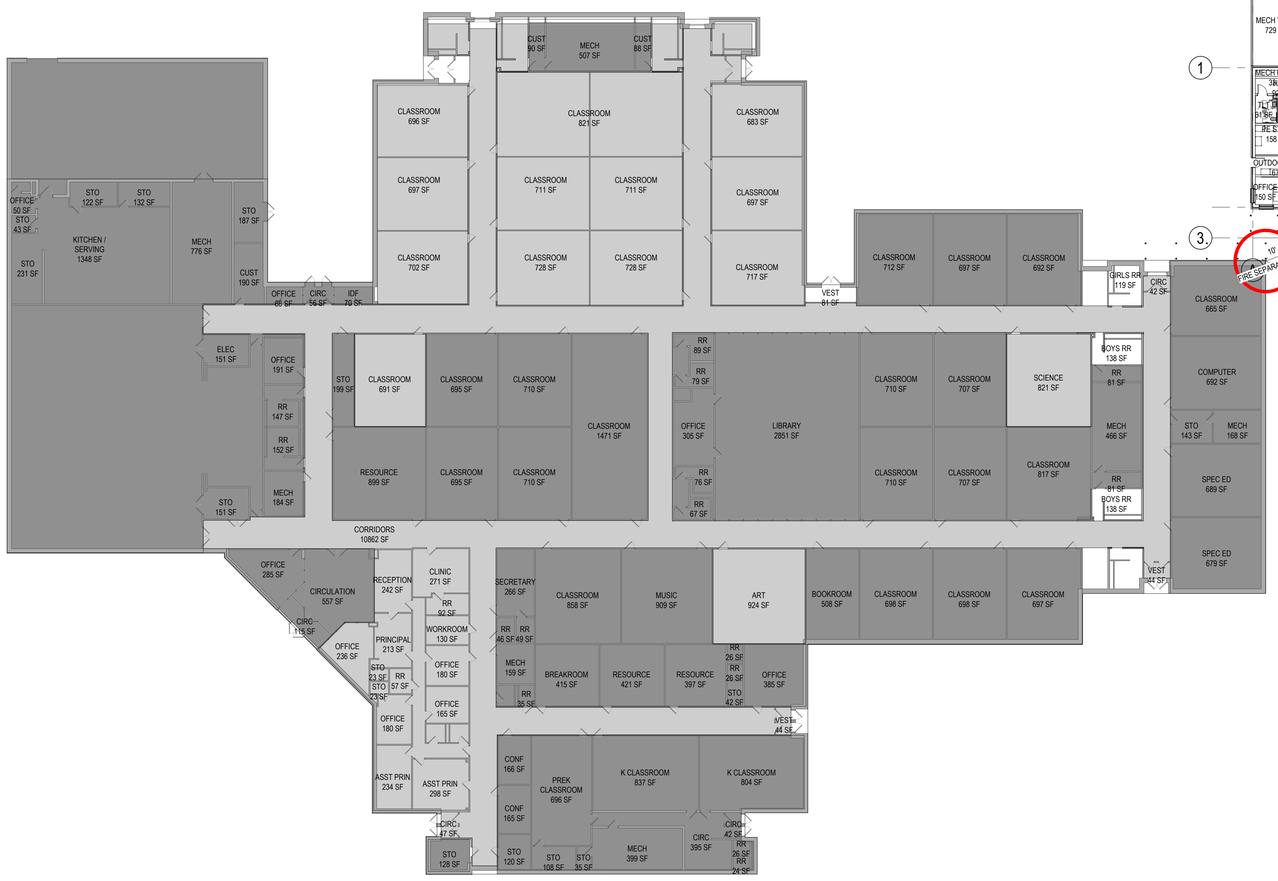
DRAWING LIST

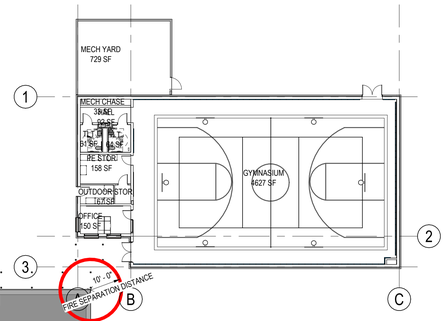
NO.	DRAWING NAME
GENERAL	
G001 - HGES	PROJECT COVER SHEET AND INDEX
G100 - HGES	COMPOSITE CODE REVIEW & LIFE SAFETY PLAN
G101 - HGES	CODE REVIEW & LIFE SAFETY PLAN - ELP
G102 - HGES	CODE REVIEW & LIFE SAFETY PLAN - GYMNASIUM
G103 - HGES	CODE REVIEW & LIFE SAFETY PLAN - CLASSROOM BUILDING
ARCHITECTURAL SITE DEMO	
ASD101 - HGES	ARCHITECTURAL DEMOLITION SITE PLAN
ARCHITECTURAL SITE	
AS001-HGES	WALKWAY COVER DETAILS
AS101 - HGES	ARCHITECTURAL SITE PLAN
AS102 - HGES	ARCHITECTURAL SITE DETAILS
CIVIL	
C001 - HGES	GENERAL NOTES
C002 - HGES	TOPOGRAPHIC SURVEY
C003 - HGES	TOPOGRAPHIC SURVEY
C100 - HGES	DEMOLITION PLAN
C200 - HGES	LAYOUT & PAVING PLAN
C300 - HGES	GRADING PLAN
C400 - HGES	UTILITY PLAN
C500 - HGES	SWPPP
C600 - HGES	DETAILS
C700 - HGES	DETAILS
C800 - HGES	FIRE LANE PLAN
LANDSCAPE	
L100 - HGES	DEMOLITION PLAN
L200 - HGES	PLAYGROUND PLAN
L300 - HGES	PLAYGROUND ENLARGEMENT
STRUCTURAL	
S001 - HGES	3D VIEW AND SHEET LIST
S101 - HGES	GENERAL STRUCTURAL CRITERIA
S102 - HGES	GENERAL STRUCTURAL CRITERIA
S201 - HGES	FOUNDATION PLAN - COMPOSITE
S201A - HGES	FOUNDATION PLAN - GYMNASIUM
S202 - HGES	ROOF FRAMING PLAN - COMPOSITE
S202A - HGES	ROOF FRAMING PLAN - GYMNASIUM
S301 - HGES	FOUNDATION, SCHEDULE & TYPICAL SLAB ON GRADE DETAILS
S401 - HGES	TYPICAL GB AND CF DETAILS
S402 - HGES	SOG @ STRUCTURAL STEEL (GB/PIER)
S501 - HGES	TYPICAL CMU WALL DETAILS
S601 - HGES	TYPICAL STEEL & CMU WALL ROOF DETAILS
ARCHITECTURAL DEMOLITION	
AD100 - HGES	ARCHITECTURAL DEMOLITION PLAN
ARCHITECTURAL	
A001 - HGES	ABBV., MATERIAL LEGEND AND SYMBOLS
A002 - HGES	TYPICAL MOUNTING HEIGHTS AND TOILET LAYOUT
A003 - HGES	WALL SPANS EXTERIOR
A004 - HGES	WALL SPANS INTERIOR AND WALL TO DECK DETAILS
A005 - HGES	WALL SPANS EXTERIOR
A006 - HGES	TYPICAL PARTITION HEAD DETAILS/TYPICAL PLAN DETAILS
A007 - HGES	TYPICAL INTERIOR PARTITION HEAD DETAILS/TYPICAL PLAN DETAILS
A009 - HGES	INTERIOR PARTITION TYPES, NOTES AND DETAILS
A101 - HGES	COMPOSITE FLOOR PLAN - EXISTING AND NEW
A102 - HGES	FLOOR PLAN - EXTENDED DAY LEARNING
A103 - HGES	FLOOR PLAN - GYMNASIUM

DRAWING LIST

NO.	DRAWING NAME
A113 - HGES	GYMNASIUM CLERESTORY PLAN
A133 - HGES	ROOF PLAN
A201 - HGES	EXTERIOR ELEVATIONS - GYMNASIUM
A202 - HGES	BUILDING SECTIONS
A300 - HGES	EXTERIOR BUILDING SYSTEM TYPES
A301 - HGES	EXTERIOR WALL SECTIONS
A302 - HGES	EXTERIOR WALL SECTIONS
A321-HGES	EXTERIOR SECTION DETAILS AND ROOF DETAILS
A401 - HGES	ENLARGED PLANS
A501 - HGES	FRAME ELEVATIONS & DOOR SCHEDULE
A502 - HGES	HEAD, JAMB, SILL DETAILS
A601 - HGES	GYMNASIUM REFLECTED CEILING PLAN
A602 - HGES	ELP REFLECTED CEILING PLAN
A603 - HGES	CEILING DETAILS
A801 - HGES	INTERIOR MATERIAL SCHEDULE
A821 - HGES	EXISTING CLASSROOM BUILDING - VINYL
A822 - HGES	EXISTING CLASSROOM BUILDING - VINYL
A823 - HGES	INTERIOR ELEVATIONS
A900 - HGES	FINISH PLAN - VINYL AND PAINT
A901-HGES	ENLARGED GYM FINISH PLAN
A902 - HGES	ENLARGED RESTROOM PLANS - NEW PARTITIONS
A903 - HGES	FINISH PLAN - VINYL AND PAINT - AREA A
A904 - HGES	FLOOR PLAN - VINYL AND PAINT - AREA B
A905 - HGES	FLOOR PLAN - VINYL AND PAINT - AREA C
MECHANICAL	
M201 - HGES	MECHANICAL FLOOR PLANS
M301 - HGES	MECHANICAL SCHEDULE
ELECTRICAL	
E001 - HGES	ELECTRICAL DEMOLITION FLOOR PLANS
E100 - HGES	ELECTRICAL COMPOSITE PLAN
E201 - HGES	ELECTRICAL FLOOR PLANS
E301 - HGES	ELECTRICAL FLOOR PLANS ALTERNATE
E401 - HGES	ELECTRICAL ONE-LINE AND PANEL SCHEDULES
E501 - HGES	ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES
PLUMBING	
P100 - HGES	PLUMBING COMPOSITE PLAN
P201 - HGES	PLUMBING UNDERFLOOR ENLARGED PLAN - NEW GYM
P301 - HGES	PLUMBING ENLARGED PLAN - LEVEL 1 - NEW GYM
P302 - HGES	PLUMBING ENLARGED PLAN - LEVEL 1 - EXTENDED DAY LEARNING
P401 - HGES	PLUMBING ROOF PLAN
P501 - HGES	PLUMBING DETAILS
P601 - HGES	PLUMBING LEGENDS AND SCHEDULES
TECHNOLOGY	
T000 - HGES	TECHNOLOGY - INDEX SHEET
T010 - HGES	TECHNOLOGY - SITE PLAN
T101 - HGES	TECHNOLOGY - GYM
T400 - HGES	TECHNOLOGY - ENLARGEMENTS
T501 - HGES	TECHNOLOGY - DETAILS
T502 - HGES	TECHNOLOGY - DETAILS
T600 - HGES	TECHNOLOGY - SECURITY DETAILS
T601 - HGES	TECHNOLOGY - SECURITY DETAILS
T700 - HGES	TECHNOLOGY - AV DETAILS
T701 - HGES	TECHNOLOGY - AV DETAILS







LEGEND

- EXISTING (OUT OF SCOPE)
- AREA OF RENOVATION
- NEW GROUND UP CONSTRUCTION (GYM)
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

WALL TO DECK RATING LEGEND

- 1-HR FIRE BARRIER WALL TO DECK (45 MIN DRS)
  UL No U465 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
- 2-HR FIRE BARRIER WALL TO DECK (1.5 HR DRS)
  UL No U411 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
  UL No U905 AT CMU CONSTR
- 3-HR FIRE BARRIER WALL TO DECK (2 HR DRS)
  UL No U419 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
  UL No U910 AT CMU CONSTR
- NON-RATED WALL TO DECK
  (REF DTL –/–.–) (NON-RATED OPENINGS)

NOTES:

1. ALL WALLS ARE NON-RATED WALLS TO BOTTOM OF DECK (UON).
2. ALL NON-LOADBEARING CMU WALLS SPAN VERTICALLY (UON).
3. ALL COLUMN ENCLOSURES SHALL BE THE SAME HEIGHT AS THE ADJACENT WALL (UON).
4. BRACE ALL WALLS TO STRUC ABOVE AS NOTED IN WALL BRACING NOTES AND WALL TERMINATION DETAILS ON SHEET A003.
5. REFER TO PARTITION TYPES, SHEET A009 & WALL CONSTRUCTION AND RATED ASSEMBLY UL NOS., SHEET A001, TYP.
6. FIRE RATING OF ANY "EXTERIOR" LOAD BEARING WALLS SHALL CONTINUE FOR A MIN OF 30" BELOW ROOF LINES AT STEPPED BUILDING LOCATIONS, SUCH SAME WALL BELOW SUCH POINT IS AN "INTERIOR" LOAD BEARING WALL AND FIRE RATED ACCORDING TO "INTERIOR" LOAD BEARING WALLS.
7. MARKING OF FIRE RATED & SMOKE STOP PARTITIONS: PERMANIENTLY MARK ALL SMOKE BARRIERS, FIRE PARTITIONS, SHAFT ENCLOSURES, FIRE BARRIERS ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER-PROTECT ALL OPENINGS". LETTERS SHALL BE MINIMUM 3" IN HEIGHT, 3/8" IN STROKE, AND PAINTED RED, IF RED IS A CONTRASTING COLOR TO THE GYPSUM BOARD, OTHERWISE USE A CONTRASTING COLOR PAINT. PROVIDE ONE TIME PER STRUCUTRAL BAY, BUT AT INTERVALS NOT MORE THAN 30' ON CENTER, OR FOR WALLS WHICH DO NOT EXTEND FOR A FULL BAY, AT LEAST ONCE. AT ENDS OF WALLS, PROVIDE MARKINGS WITHIN 15' OF THE END OF EACH WALL.

FIRE ASSEMBLY LEGEND

- FLOOR/CEILING
  UL ASSEMBLY No D902: 2-HR;
  STRUCTURAL FRAME RATED 2-HR
- EXPOSED CEILING - CEMENTITIOUS FIRE PROOFING:
  UL ASSEMBLY No P819: 1-HR
- STRUCTURE EXCEEDS 20 FT -
  FIREPROOFING NOT REQUIRED
- ROOF/CEILING
  UL ASSEMBLY No P819: 1-HR;
  STRUCTURAL FRAME RATED 2-HR
- INTUMESCENT PAINT ON ALL EXPOSED STRUCTURAL MEMBERS
  UL ASSEMBLY No X662, X661:
  1-HR AT ROOF/CEILING AND
  2-HR AT FLOOR/CEILING

NOTES:

1. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC PENETRATIONS THROUGH RATED WALLS, FLOOR OR ROOF WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO UL GUIDELINES FOR APPROPRIATE ASSEMBLIES.
2. PROVIDE DAMPERS AND LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.
3. PROVIDE SPRAY-ON FIRE PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM AN AREA DESIGNATED TO BE A FIRE RATED FLOOR/CEILING AND OR FIRE RATED ROOF/CEILING ASSEMBLY INTO AREAS WITH ANY OTHER FIRE ASSEMBLY OR NO FIRE ASSEMBLY FOR THEIR FULL LENGTH, TYP.
4. UL ASSEMBLIES INDICATED ESTABLISH A PERFORMANCE BASIS. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
5. ALL STEEL COLUMNS - SPRAY ON FIREPROOFING, UL ASSEMBLY X795, U.O.N (REF SHEET A021)

PROJECT GENERAL INFORMATION:

PROJECT	HUNTERS GLEN ELEMENTARY SCHOOL
LOCATION	695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489
JURISDICTION	MISSOURI CITY
BUILDING HEIGHT	ONE STORY
EXISTING FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING: 71,256 SF EXISTING ELP & GYM BUILDING: 6,321 SF 77,577 SF
AREA OF RENOVATION	EXISTING CLASSROOM BUILDING: **25,219 SF** EXISTING ELP & GYM BUILDING: **4,893 SF**
NEW GYM BUILDING AREA	**5,930 SF**

CODE REVIEW - CLASSROOM BUILDING: IEBC 2021

PRIMARY OCCUPANCY (SEC. 305) → EDUCATIONAL GROUP "E"

OVERALL SCOPE OF WORK SUMMARY →

1. SCOPE OF WORK SUMMARY (CLASSROOM BUILDING)
LEVEL 1 ALTERATION:
INTERIOR:
- PAINT INTERIOR SURFACES (CORRIDORS, CLASSROOMS - 15 IDENTIFIED, ADMIN OFFICE SPACES.)
- RE-COVER DAMAGED WALL PANELS WITH NEW VINYL.
- RE-PLACE WALL PARTITIONS BY RESTROOMS.

2. SCOPE OF WORK SUMMARY (EXISTING ELP & GYM BUILDING):
LEVEL 1 ALTERATION:
INTERIOR:
- REPLACE LIGHT FIXTURES W/ LED LIGHT FIXTURES
- PROVIDE PIPE PROTECTION AT EXISTING SINKS IN BOYS AND GIRLS RESTROOMS.
- PROVIDE ACT LAY-IN CEILING
- REPLACE DIFFUSERS(6)
- REPAIR RETURN AIR GRILLES(2)
- FIX DAMAGED ACOUSTIC PANEL FABRIC
- FIX EXIT SIGN
- REPAIR VINYL AT ELP
- REPLACE LIGHTS AT EXTERIOR WALKWAY

3. SCOPE OF WORK SUMMARY (NEW GYMNASIUM BUILDING):
PROVIDE NEW 5,803 SF TYPE II-B NON-SPRINKLERED GYM BUILDING

EXISTING CONSTRUCTION TYPE PER → II-B, SPRINKLERED

CODE REVIEW: IBC 2021 WITH AMENDMENTS

OCCUPANCY (SEC. 508)	MIXED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SECONDARY OCCUPANCY (SEC. 303, 304)	ASSEMBLY GROUP "A-2" (CAFETERIA) W/ ASSOCIATED KITCHEN ASSEMBLY GROUP "A-3" (LIBRARY, GYMNASIUM) BUSINESS GROUP "B" (ADMIN. AREAS) NOTE: PER EXCEPTION 508.2.1, THE ABOVE SECONDARY OCCUPANCIES ARE DESIGNATED AS ACCESSORY OCCUPANCIES.
AUTOMATIC SPRINKLER SYSTEM	YES
TYPE OF CONSTRUCTION (CHAPTER 6)	TYPE II B
BUILDING AREA AND HEIGHT LIMITATIONS (SEC. 503-506) FOR GROUP "E" OCCUPANCY	58,500 AREA / 75 FT HEIGHT / 3 STORIES (TAB. 506.2 ALLOWABL AREA): 14,500 NS / 58,000 S1 / 43,500 MS (HEIGHT INCREASE PER TAB. 504.3): 75 FT HEIGHT / 3 STORIES

ALLOWABLE AREA CALCULATIONS (SEC. 506.2):

Aa = At + (NS x If)	SINGLE-OCCUPANCY, ONE STORY
Aa = At + (NS x If)	MIXED-OCCUPANCY, ONE STORY
Aa = [At + (NS x If)] x Sa	SINGLE-OCCUPANCY, MULTISTORY
Aa = [At + (NS x If)]	MIXED-OCCUPANCY, MULTISTORY

TOTAL MAXIMUM ALLOWABLE AREA EQUATION (SEC. 506.2):

Aa = At + (NS x If) → Aa = 58,000 + (14,500 x .75)
Aa = 58,000 + 10,875

TOTAL MAXIMUM ALLOWABLE AREA: → **Aa = 68,875 SF** / FLOOR

FIRE-RESISTANCE REQUIREMENTS

FIRE SEPARATION DISTANCE: 12' 10>X>30 REQUIRES 0 HR RATING

FOR GENERAL BUILDING ELEMENTS: (TAB. 601 AND 602)		DOOR RATING (TAB. 716.5)
STRUCTURAL FRAME	0 HR	
BEARING WALLS:		
EXTERIOR	0 HR	0 MIN
INTERIOR	0 HR	0 MIN
NONBEARING WALLS:		
EXTERIOR LESS THAN 5'	0 HR	0 MIN
5' OR LESS THAN 10'	0 HR	0 MIN
10' OR LESS THAN 30'	0 HR	0 MIN
GREATER THAN 30'	0 HR	
INTERIOR	0 HR	
FLOOR CONSTRUCTION (INCL. SUPPORT BEAMS/JOISTS)	0 HR	
ROOF CONSTRUCTION (INCL. SUPPORT BEAMS/JOISTS)	0 HR	
FIRE WALLS (TAB. 706.4)	3 HR	180 MIN
FIRE PARTITIONS (SEC. 708)	1 HR	20 MIN
CORRIDORS (TAB. 1020.1)	1 HR	20 MIN

OCCUPANCY SEPARATIONS: NOT REQUIRED - NONSEPARATED USE (SEC 302.3.1)

ADOPTED CODES (MISSOURI CITY AND/OR STATE OF TX)

EXISTING BUILDING	IEBC 2021
BUILDING	IBC 2021
MECHANICAL	IMC 2021
ELECTRICAL	NEC 2023
PLUMBING	IPC 2021
FIRE	IFC 2021
ENERGY	IECC 2021
FUEL GAS	IFGC 2021

A1 / G100 — **COMPOSITE FLOOR PLAN - CODE REVIEW**
1" = 20'-0"
HGES

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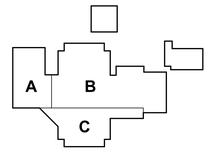
Notes



KEY PLAN

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker 11/28/24
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT · DANIELLE DUNN · 28298 · STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
COMPOSITE CODE REVIEW & LIFE SAFETY PLAN

Project No. 214001246 | Scale As indicated
Revision | Drawing No.

G100 - HGES

<Plot location in Project Information>
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ORIGINAL SHEET - ARCH E1

1	2	3	4	5	6

E

D

C

B

A

LEGEND

- EXISTING (OUT OF SCOPE)
- AREA OF RENOVATION
- NEW GROUND UP CONSTRUCTION (GYM)
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

PROJECT GENERAL INFORMATION:

PROJECT	HUNTERS GLEN ELEMENTARY SCHOOL	
LOCATION	695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489	
JURISDICTION	MISSOURI CITY	
BUILDING HEIGHT	ONE STORY	
EXISTING FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING:	71,256 SF
	EXISTING ELP & GYM BUILDING:	6,321 SF
		77,577 SF
AREA OF RENOVATION	EXISTING CLASSROOM BUILDING:	**25,219 SF**
	EXISTING ELP & GYM BUILDING:	**4,893 SF**
NEW GYM BUILDING AREA	**5,930 SF**	

CODE REVIEW - CLASSROOM BUILDING: IEBC 2021

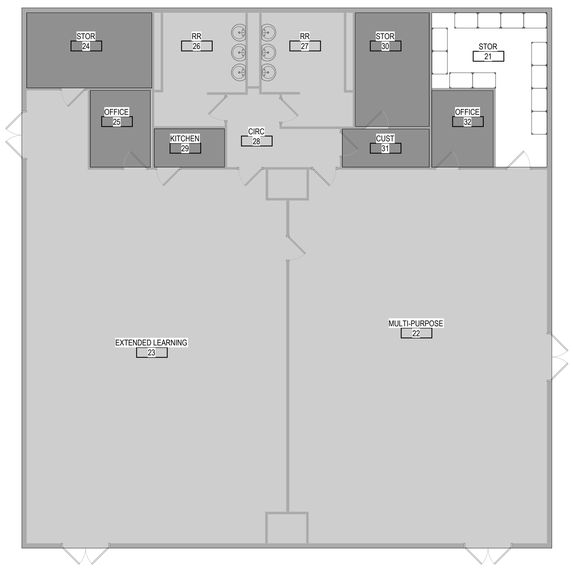
PRIMARY OCCUPANCY (SEC. 305)	ASSEMBLY GROUP "A-3"
OVERALL SCOPE OF WORK SUMMARY	**1.. SCOPE OF WORK SUMMARY (EXISTING ELP & GYM BUILDING): LEVEL 1 ALTERATION:** **INTERIOR:** • REPLACE LIGHT FIXTURES W/ LED LIGHT FIXTURES • PROVIDE PIPE PROTECTION AT EXISTING SINKS IN BOYS AND GIRLS RESTROOMS • PAINT EXISTING STORAGE ROOM • PROVIDE ACT LAY-IN CEILING • REPLACE DIFFUSERS(6) • REPAIR RETURN AIR GRILLES(2) • FIX DAMAGED ACOUSTIC PANEL FABRIC • FIX EXIT SIGN • REPAIR VINYL AT ELP • REPLACE LIGHTS AT EXTERIOR WALKWAY
EXISTING CONSTRUCTION TYPE	II-B, NON-SPRINKLERED
FIRE REQUIREMENTS (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FORTHE MEANS OF EGRESS

CODE REVIEW: IBC 2021 WITH AMENDMENTS

OCCUPANCY (SEC. 508)	SINGLE
PRIMARY OCCUPANCY (SEC. 305)	ASSEMBLY GROUP "A-3"
SECONDARY OCCUPANCY (SEC. 303, 304)	BUSINESS GROUP "B" (ADMIN. AREAS) STORAGE GROUP "S-1" NOTE: PER EXCEPTION 508.2.1, THE ABOVE SECONDARY OCCUPANCIES ARE DESIGNATED AS ACCESSORY OCCUPANCIES.
AUTOMATIC SPRINKLER SYSTEM	NO
TYPE OF CONSTRUCTION (CHAPTER 6)	TYPE II B
BUILDING AREA AND HEIGHT LIMITATIONS (SEC. 503-506) FOR GROUP "A-3" OCCUPANCY	9,500 AREA / 55 FT HEIGHT / 2 STORIES (TAB. 506.2 ALLOWABL AREA):9,500 NS / 38,000 S1 / 28,500 MS

ADOPTED CODES (MISSOURI CITY AND/OR STATE OF TX)

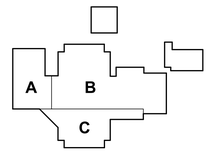
EXISTING BUILDING	IEBC 2021
BUILDING	IBC 2021
MECHANICAL	IMC 2021
ELECTRICAL	NEC 2023
PLUMBING	IPC 2021
FIRE	IFC 2021
ENERGY	IECC 2021
FUEL GAS	IFGC 2021



A1 / G101 **EXTENDED DAY LEARNING FLOOR PLAN**

1/8" = 1'-0"

HGES



KEY PLAN

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/08/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

CODE REVIEW & LIFE SAFETY PLAN - ELP

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

G101 - HGES

•Plot location in Project Information•
11/20/2025 5:55:06 AM

ORIGINAL SHEET - ARCH E1

WALL TO DECK RATING LEGEND

▶▶▶▶▶▶▶	1-HR FIRE BARRIER WALL TO DECK (45 MIN DRS) UL No U465 AT STUD CONSTR NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
◆◆◆◆◆	2-HR FIRE BARRIER WALL TO DECK (1.5 HR DRS) UL No U411 AT STUD CONSTR NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR UL No U905 AT CMU CONSTR
■■■■■■	3-HR FIRE BARRIER WALL TO DECK (2 HR DRS) UL No U419 AT STUD CONSTR NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR UL No U910 AT CMU CONSTR
●●●●●●	NON-RATED WALL TO DECK (REF DTL –/–.–) (NON-RATED OPENINGS)

NOTES:

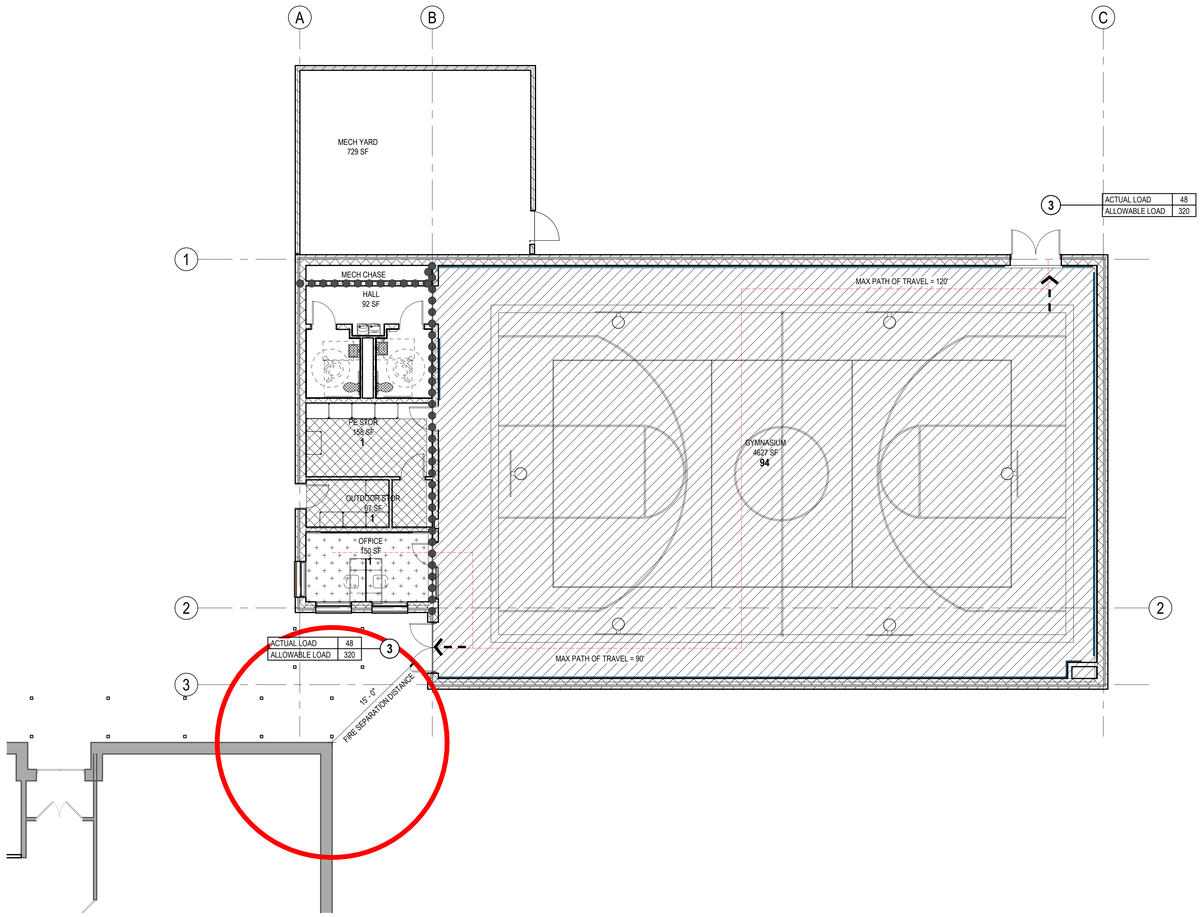
1. ALL WALLS ARE NON-RATED WALLS TO BOTTOM OF DECK (UON).
2. ALL NON-LOADBEARING CMU WALLS SPAN VERTICALLY (UON).
3. ALL COLUMN ENCLOSURES SHALL BE THE SAME HEIGHT AS THE ADJACENT WALL (UON).
4. BRACE ALL WALLS TO STRUC ABOVE AS NOTED IN WALL BRACING NOTES AND WALL TERMINATION DETAILS ON SHEET A003.
5. REFER TO PARTITION TYPES, SHEET A009 & WALL CONSTRUCTION AND RATED ASSEMBLY UL NOS., SHEET A001, TYP.
6. FIRE RATING OF ANY "EXTERIOR" LOAD BEARING WALLS SHALL CONTINUE FOR A MIN OF 30" BELOW ROOF LINES AT STEPPED BUILDING LOCATIONS, SUCH SAME WALL BELOW SUCH POINT IS AN "INTERIOR" LOAD BEARING WALL AND FIRE RATED ACCORDING TO "INTERIOR" LOAD BEARING WALLS.
7. MARKING OF FIRE RATED & SMOKE STOP PARTITIONS: PERMANENTLY MARK ALL SMOKE BARRIERS, FIRE PARTITIONS, SHAFT ENCLOSURES, FIRE BARRIERS ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER-PROTECT ALL OPENINGS". LETTERS SHALL BE MINIMUM 3" IN HEIGHT, 3/8" IN STROKE, AND PAINTED RED, IF RED IS A CONTRASTING COLOR TO THE GYPSUM BOARD, OTHERWISE USE A CONTRASTING COLOR PAINT. PROVIDE ONE TIME PER STRUCTURAL BAY, BUT AT INTERVALS NOT MORE THAN 30' ON CENTER, OR FOR WALLS WHICH DO NOT EXTEND FOR A FULL BAY, AT LEAST ONCE. AT ENDS OF WALLS, PROVIDE MARKINGS WITHIN 15' OF THE END OF EACH WALL.

FIRE ASSEMBLY LEGEND

	FLOOR/CEILING UL ASSEMBLY No D902: 2-HR; STRUCTURAL FRAME RATED 2-HR
	EXPOSED CEILING - CEMENTITIOUS FIRE PROOFING: UL ASSEMBLY No P819: 1-HR
	STRUCTURE EXCEEDS 20 FT - FIREPROOFING NOT REQUIRED
	ROOF/CEILING UL ASSEMBLY No P819: 1-HR; STRUCTURAL FRAME RATED 2-HR
	INTUMESCENT PAINT ON ALL EXPOSED STRUCTURAL MEMBERS UL ASSEMBLY No X662, X661: 1-HR AT ROOF/CEILING AND 2-HR AT FLOOR/CEILING

NOTES:

1. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC PENETRATIONS THROUGH RATED WALLS, FLOOR OR ROOF WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO UL GUIDELINES FOR APPROPRIATE ASSEMBLIES.
2. PROVIDE DAMPERS AND LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.
3. PROVIDE SPRAY-ON FIRE PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM AN AREA DESIGNATED TO BE A FIRE RATED FLOOR/CEILING AND OR FIRE RATED ROOF/CEILING ASSEMBLY INTO AREAS WITH ANY OTHER FIRE ASSEMBLY OR NO FIRE ASSEMBLY FOR THEIR FULL LENGTH, TYP.
4. UL ASSEMBLIES INDICATED ESTABLISH A PERFORMANCE BASIS. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
5. ALL STEEL COLUMNS - SPRAY ON FIREPROOFING, UL ASSEMBLY X795, U.O.N (REF SHEET A021)



A1 / G102 — **GYMNASIUM - LIFE SAFETY PLAN**
1/8" = 1'-0"
HGES

PROJECT GENERAL INFORMATION:

PROJECT	HUNTERS GLEN ELEMENTARY SCHOOL
LOCATION	695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489
JURISDICTION	MISSOURI CITY
BUILDING HEIGHT	ONE STORY
EXISTING FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING: 71,256 SF EXISTING ELP & GYM BUILDING: 6,321 SF 77,577 SF
AREA OF RENOVATION	EXISTING CLASSROOM BUILDING: **25,219 SF** EXISTING ELP & GYM BUILDING: **4,893 SF**
NEW GYM BUILDING AREA	**5,930 SF**

CODE REVIEW- NEW GYMNASIUM BUILDING: IBC 2021

NEW CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	"A-3" ASSEMBLY SERVING EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	NEW 5,803 SF GYMNASIUM FOR EXISTING STUDENT POPULATION
ALLOWABLE AREA AND HEIGHT LIMITATIONS(TAB 504.3, 504.4, 506.2)	9,500 SF /55 FT HIGH/2 STORIES
ACTUAL AREA AND HEIGHT	5,930 SF /26 FT HIGH/1 STORY
FIRE SEPARATION DISTANCE	12', 10'-X>30
FIRE-RESISTANCE RATING REQUIREMENTS (TAB 601)	0
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS, NON-BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0
EXIT ACCESS TRAVEL DISTANCE (TAB.1017)	200'

ADOPTED CODES (MISSOURI CITY AND/OR STATE OF TX)

EXISTING BUILDING	IEBC 2021
BUILDING	IBC 2021
MECHANICAL	IMC 2021
ELECTRICAL	NEC 2023
PLUMBING	IPC 2021
FIRE	IFC 2021
ENERGY	IECC 2021
FUEL GAS	IFGC 2021

EGRESS REQUIREMENTS: IBC 2021

OCCUPANCY LOADS: **(TABLE 1004.5)**

FUNCTION OF SPACE:	SQ. FT PER OCCUPANT:
ACCESSORY STORAGE AREAS, MECH. EQUIPMENT ROOMS	300 GROSS
BUSINESS AREAS	150 GROSS
EXERCISE ROOMS	50 GROSS

REQUIRED EGRESS WIDTH:

MINIMUM CORRIDOR WIDTH (SEC. 1005.3.2)	44" MIN OR .15" PER OCCUPANT
NUMBER OF EXITS REQUIRED (TABLE 1006.3.1 / TABLE 1006.3.2(2))	
1-49 OCCUPANTS	1
51-500 OCCUPANTS	2
501-1000 OCCUPANTS	3
1001 OR MORE OCCUPANTS	4
MAXIMUM TRAVEL DISTANCE TO AN EXIT (TABLE 1017.2)	200'
MAXIMUM LENGTH OF DEAD END CORRIDORS (1020.4)	50' OR UNLIMITED LENGTH WHEN MIN. WIDTH < 2.5 TIMES THE WIDTH OF THE DEAD END CORRIDOR
COMMON PATH OF TRAVEL (TABLE 1006.2.1)	< 30 OCC SERVED = 75'-0" TO CHOICE OF 2 EXIT PATHS

OCCUPANCY / EGRESS LEGEND:

INTERIOR AND EXTERIOR DOOR EGRESS (IBC SECTION 1005.1)

1. 3'-0" DOOR (32" CLR) AT .2" OCCUPANT = 160 OCCUPANTS
2. 4'-0" DOOR (44" CLR) AT .2"/OCCUPANT = 220 OCCUPANTS
3. PAIR 3'-0" DOOR (64" CLR) AT .2"/OCCUPANT = 320 OCCUPANTS

OCCUPANCY / EGRESS LEGEND:

ROOM NAME
AREA
##
OCCUPANT LOAD

AREA CLASSIFICATION (SEC 302 / TABLE 1004.1.2)

- ACCESORY STORAGE AREAS, MEP ROOM (300 GROSS)
- ASSEMBLY WITH FIXED SEATS
- ASSEMBLY UNCONCENTRATED (15 NET)
- BUSINESS (150 GROSS)
- EDUCATIONAL - CLASSROOM (20 NET)
- EDUCATIONAL - SHOPS (50 NET)
- EXERCISE ROOMS (50 GROSS)

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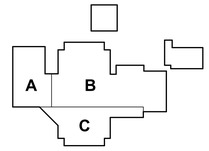
Notes



KEY PLAN

Revision — By — Appd — YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT — Issued — By — Appd — 2025.09.24 YYYY.MM.DD

File Name: N/A — Author Dwn. — Designer Dsgn. — Checker Chkd. — 11/08/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE DINH 28296 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

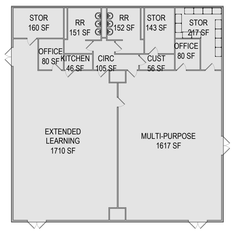
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

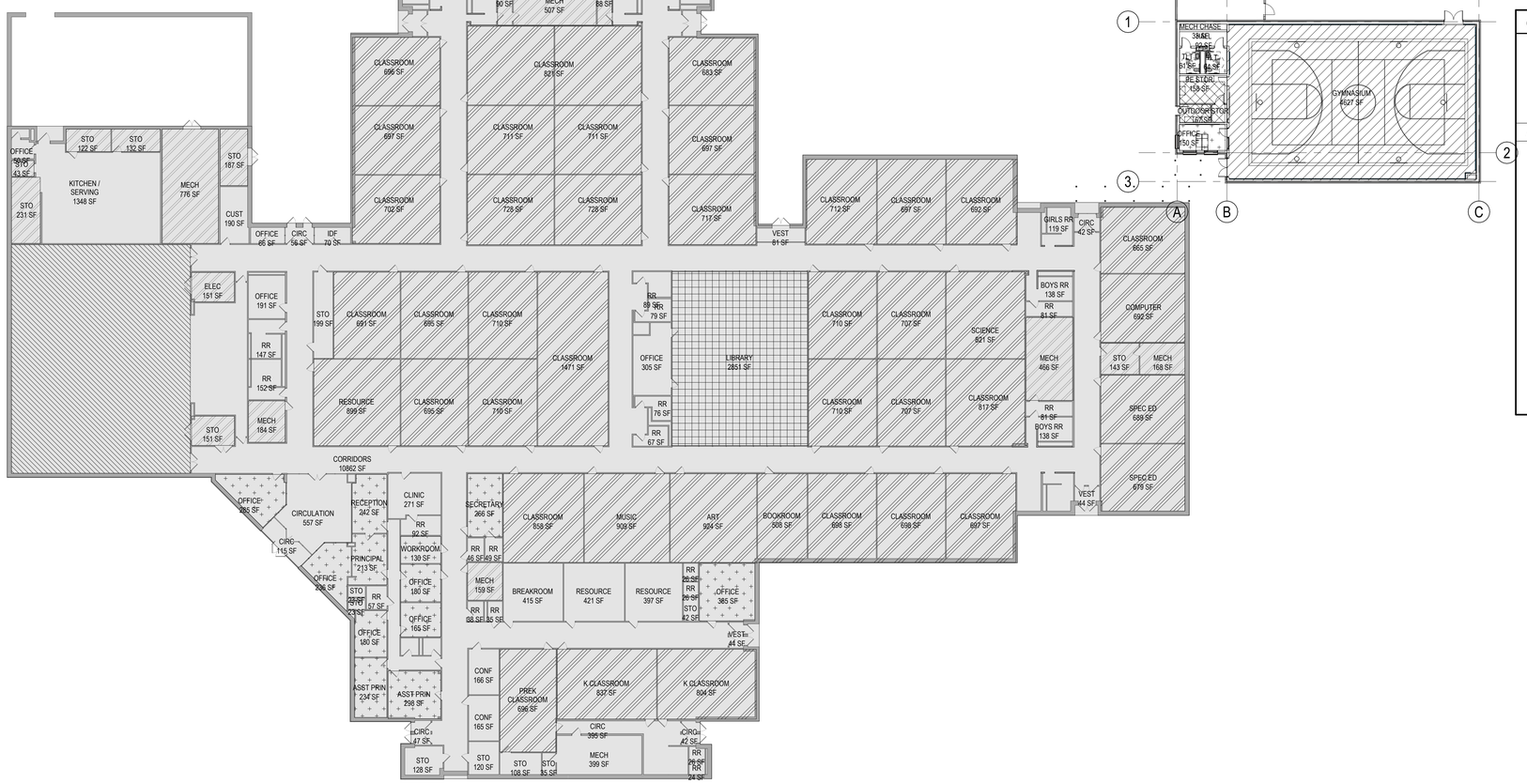
Title
CODE REVIEW & LIFE SAFETY PLAN - GYMNASIUM

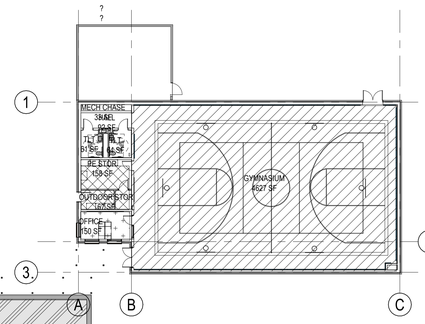
Project No. 214001246 — Scale As indicated

Revision — Drawing No. **G102 - HGES**

ORIGINAL SHEET - ARCH E1







LEGEND

- EXISTING (OUT OF SCOPE)
- AREA OF RENOVATION
- NEW GROUND UP CONSTRUCTION (GYM)
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

PROJECT GENERAL INFORMATION:

PROJECT	HUNTERS GLEN ELEMENTARY SCHOOL
LOCATION	695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489
JURISDICTION	MISSOURI CITY
BUILDING HEIGHT	ONE STORY
EXISTING FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING: 71,256 SF EXISTING ELP & GYM BUILDING: 6,321 SF 77,577 SF
AREA OF RENOVATION	EXISTING CLASSROOM BUILDING: **25,219 SF** EXISTING ELP & GYM BUILDING: **4,893 SF**
NEW GYM BUILDING AREA	**5,930 SF**

CODE REVIEW - CLASSROOM BUILDING: IEBC 2021

PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
OVERALL SCOPE OF WORK SUMMARY	**1. SCOPE OF WORK SUMMARY (CLASSROOM BUILDING)** **LEVEL 1 ALTERATION:** **INTERIOR:** • PAINT INTERIOR SURFACES (CORRIDORS, CLASSROOMS - 15 IDENTIFIED, ADMIN OFFICE SPACES.) • RE-COVER DAMAGED WALL PANELS WITH NEW VINYL. • RE-PLACE WALL PARTITIONS BY RESTROOMS.
EXISTING CONSTRUCTION TYPE	II-A, SPRINKLERED
FIRE REQUIREMENTS (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FORTHE MEANS OF EGRESS

CODE REVIEW: IBC 2021 WITH AMENDMENTS

OCCUPANCY (SEC. 508)	MIXED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SECONDARY OCCUPANCY (SEC. 303, 304)	ASSEMBLY GROUP "A-2" (CAFETERIA) W/ ASSOCIATED KITCHEN ASSEMBLY GROUP "A-3" (LIBRARY, GYMNASIUM) BUSINESS GROUP "B" (ADMIN. AREAS) NOTE: PER EXCEPTION 508.2.1, THE ABOVE SECONDARY OCCUPANCIES ARE DESIGNATED AS ACCESSORY OCCUPANCIES.
AUTOMATIC SPRINKLER SYSTEM	YES
TYPE OF CONSTRUCTION (CHAPTER 6)	TYPE II A
BUILDING AREA AND HEIGHT LIMITATIONS (SEC. 503-506) FOR GROUP "E" OCCUPANCY	106,500 AREA / 85 FT HEIGHT / 4 STORIES (TAB. 506.2 ALLOWABL AREA): 26,000 NS / 106,500 S1 / 79,500 MS (HEIGHT INCREASE PER TAB. 504.3): 85 FT HEIGHT / 4 STORIES

ADOPTED CODES (MISSOURI CITY AND/OR STATE OF TX)

EXISTING BUILDING	IEBC 2021
BUILDING	IBC 2021
MECHANICAL	IMC 2021
ELECTRICAL	NEC 2023
PLUMBING	IPC 2021
FIRE	IFC 2021
ENERGY	IECC 2021
FUEL GAS	IFGC 2021

OCCUPANCY / EGRESS LEGEND:

ROOM NAME
AREA
##
OCCUPANT LOAD

AREA CLASSIFICATION (SEC 302 / TABLE 1004.1.2)

- ACCESORY STORAGE AREAS, MEP ROOM (300 GROSS)
- ASSEMBLY WITH FIXED SEATS
- ASSEMBLY UNCONCENTRATED (15 NET)
- BUSINESS (150 GROSS)
- EDUCATIONAL - CLASSROOM (20 NET)
- EDUCATIONAL - SHOPS (50 NET)
- EXERCISE ROOMS (50 GROSS)

A1 / G103 HGES

COMPOSITE FLOOR PLAN

1" = 20'-0"

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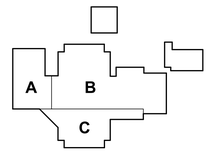

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/08/24
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Permit/Seal

REGISTERED ARCHITECT DANIELLE DUNN 28296 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
CODE REVIEW & LIFE SAFETY PLAN - CLASSROOM BUILDING

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

G103 - HGES

•Plot location in Project Information
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ORIGINAL SHEET - ARCH E1

J:\1704\1601\Fort Bend County Standards\Fort Bend County STD\FBC GENERAL NOTES\FORT BEND CO GENERAL NOTES.dwg

CONSTRUCTION

1. FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOUR NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAVING AT CONSTRUCTION@FBCTX.GOV.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY "RULES, REGULATIONS AND REQUIREMENTS" RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
5. ALL ROAD WIDTHS, CURB RADII AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
6. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
7. ALL CONCRETE PAVEMENT SHALL BE 5½ SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
9. 4" X 12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
10. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
11. GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION – BOTH DAY AND NIGHT.
12. ALL R1-1 STOP SIGNS SHALL BE A MINIMUM OF 36"X36" WITH DIAMOND GRADE SHEETING PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
13. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE W/REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP SIGN POST.
14. A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.
15. THE PROJECT AND ALL PARTS THEREOF SHALL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY INSPECTORS DESIGNATED BY FORT BEND COUNTY. NO SUCH INSPECTIONS SHALL RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER. NEITHER FAILURE TO INSPECT NOR FAILURE TO DISCOVER OR REJECT ANY OF THE WORK AS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF FORT BEND COUNTY OR ANY PROVISION OF THIS PROJECT SHALL BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR TO RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER.
16. STABILIZED SUBGRADE: DETERMINE THE THICKNESS OF THE STABILIZED SUBGRADE AFTER CURING AND COMPACTION. IF THE SUBGRADE DEPTH IS GREATER THAN THE PROPOSED THICKNESS BY 20% OR MORE, THE CMT LAB MUST PROVIDE VERIFICATION THE PERCENTAGE OF MATERIAL BEING USED TO STABILIZE THE SUBGRADE MEETS OR EXCEEDS PROJECT REQUIREMENTS. TEST RESULTS REQUIRED.

NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES.

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-22	RJS

FORT BEND COUNTY
ENGINEERING DEPARTMENT

PROJECT TITLE:
DRAWN BY: INIT
CK'D BY: INIT
SCALE: NONE
DATE: 2-1-22
SHEET DESCRIPTION: CONSTRUCTION GENERAL NOTES
APPROVED BY:
FBCED STANDARD 02
SHEET NO: /

PLOT TIME: TIME STAMP

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL BURIED UTILITIES IDENTIFIED, PROTECTED, REPLACED AND/OR PROPERLY REPAIRED IF DAMAGED. REPAIRS/REPLACEMENT SHALL BE AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE ALL APPLICABLE PERMITS AND AN APPROVED COPY OF THE PLANS AND SPECIFICATIONS. NOTIFY THE CITY PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF MISSOURI CITY PUBLIC WORKS 24 HOURS PRIOR TO WEEKDAY WORK REQUIRING INSPECTION INCLUDING, BUT NOT LIMITED TO, LIMING, PAVING OPERATIONS, CONCRETE PLACEMENT, FORMING AND SET-UP, DENSITIES, PIPE INSTALLATION, AND ANY TESTING BY LABORATORIES. DEPARTMENT OF PUBLIC WORKS MAY BE REACHED AT 281-403-8570 OR BY CONTACTING THE ASSIGNED INSPECTOR.
4. ALL SATURDAY WORK SHALL BE REQUESTED, IN WRITING, WITH THE DEPARTMENT OF PUBLIC WORKS AT LEAST 48-HOURS IN ADVANCE. SUNDAY AND HOLIDAY WORK REQUIRES 72 HR. WRITTEN REQUESTS AND MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR. REQUIRED INSPECTIONS MAY BE SUBJECT TO INSPECTION FEES. NON-NOTIFICATIONS MAY RESULT IN NON-COMPLIANCE, WORK ORDERED STOPPAGE AND DOUBLE INSPECTION FEES.
5. FULL-TIME RESIDENT INSPECTION BY THE PROJECT ENGINEER'S REPRESENTATIVE SHALL BE PROVIDED AT ALL CRITICAL POINTS OF CONSTRUCTION AND AS DEEMED NECESSARY BY THE CITY OF MISSOURI CITY.
6. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS, THE CITY OF MISSOURI CITY DESIGN MANUAL (ISSUED 2019), AND THE CITY OF MISSOURI CITY STANDARD DETAIL SHEETS. THE CITY OF MISSOURI CITY DESIGN MANUAL SHALL BE ACQUIRED (AND USED) FROM THE DEPARTMENT OF PUBLIC WORKS, 1522 TEXAS PARKWAY, PHONE 281-403-8570. THE LATEST REVISIONS AND/OR AMENDMENTS SHALL BE OBSERVED. WHERE CONFLICT MAY ARISE BETWEEN INFORMATION ON APPROVED CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS, AND CITY OF MISSOURI CITY STANDARDS, THEN THE CITY OF MISSOURI CITY STANDARDS SHALL GOVERN.
7. ALL STATIONS ARE CENTERLINE OF STREET RIGHT-OF-WAY UNLESS OTHERWISE NOTED ON THE PLANS EXCEPT IN SIDE OR BACK LOT EASEMENTS WHERE CENTERLINE IS CENTER OF PIPE. IN EASEMENTS WHERE SANITARY AND STORM SEWER ARE PRESENT PARALLEL, STATIONS SHALL BE BASED ON CENTERLINE OF STORM SEWER PIPING.
8. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE AREA OR STRUCTURE DISTURBED, DURING CONSTRUCTION, SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OF MISSOURI CITY.
9. ANY POLLUTION CONTROL DEVICE, SOD, OR SEEDED AREA DAMAGED, DISTURBED, OR REMOVED SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR WATERING ANY SEED OR SOD WHICH HE HAS INSTALLED UNTIL ADEQUATE GROWTH IS ACHIEVED TO PREVENT EROSION.
10. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF MISSOURI CITY. IF NON-COMPLIANCE OCCURS, CONTRACTOR SHALL REMEDY IMMEDIATELY AT HIS OWN EXPENSE.
11. ANY MATERIALS OR WORKMANSHIP NOT MEETING OR EXCEEDING CITY OF MISSOURI CITY STANDARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL KEEP THE STREETS, RIGHT-OF-WAY, AND WORK AREA CLEAN OF DIRT, MUD, AND DEBRIS.
13. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL REQUIRED TRAFFIC SAFETY CONTROL DEVICES UP TO AND INCLUDING FLAGMEN OR POLICE OFFICERS, IF DEEMED NECESSARY BY THE CITY OF MISSOURI CITY.
14. THE CONTRACTOR SHALL CONTACT THE CITY OR LOCAL MUNICIPAL UTILITY DISTRICT AS APPROPRIATE TO OPERATE EXISTING UTILITIES AND PRIOR TO MAKING TIE-INS.
15. ALL BACKFILL WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS SHALL BE ENGINEERED TO 95% STANDARD PROCTOR DENSITY (IN 8 INCH LIFTS) AND TESTED FOR -1% TO +4% OPTIMUM BY AN APPROVED LAB.
16. IT IS PERMISSIBLE TO USE A BACKHOE FOR TRENCH EXCAVATION IN LIEU OF A TRENCHING MACHINE.
17. THE CONTRACTOR SHALL NEVER UNLOAD ANY TRACK-TYPE VEHICLE OR EQUIPMENT ON ANY EXISTING PAVEMENT OR CROSS OVER ANY EXISTING PAVEMENT OR CURB.
18. ALL FINISH GRADES ARE TO CONFORM TO A MINIMUM SLOPE OF 6" PER 100 FT. POSITIVE DRAINAGE IS DEPICTED BY ARROWS.
19. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
20. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS.
21. ALL TESTING PROCEDURES SHALL CONFORM TO THE CITY OF MISSOURI CITY STANDARDS. THE INITIAL TESTING EXPENSE SHALL BE BORNE BY THE OWNER. IF ANY OF THE TESTS DO NOT MEET THE TESTING STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR REPLACE SUCH MATERIAL SO THE TESTING STANDARDS CAN BE MET. ADDITIONAL TESTING TO MEET COMPLIANCE SHALL BE AT THE CONTRACTOR'S EXPENSE.
22. CONTRACTOR SHALL PROVIDE SHEETING, SHORING, AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER O.S.H.A. REQUIREMENTS.
23. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TXDOT STANDARD SPECIFICATIONS, 2014, AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009), AND ANY REVISIONS THERETO.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIALS AND EQUIPMENT STORED ON THE JOBSITE IN A SAFE AND WORKMAN-LIKE MANNER (DURING AND AFTER WORKING HOURS), UNTIL JOB COMPLETION.
25. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES, AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIAL AND EQUIPMENT.
26. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, AND COMPLETION OF THE PROJECT AS SHOWN ON THE PLANS AND SPECIAL PROVISIONS TO COMPLY WITH CITY OF MISSOURI CITY STANDARDS.
27. NO PRIVATE UTILITIES (I.E., PHONE, CABLE T.V., ELECTRICITY, ETC.) SHALL BE INSTALLED WITHIN 4 FEET BACK OF CURB.
28. PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING CURRENT OSHA STANDARDS FOR TRENCH SAFETY SYSTEMS, SEALED BY A LICENSED PROFESSIONAL ENGINEER. APPROPRIATE TRENCH SAFETY PLANS SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO EXECUTION OF A CONTRACT FOR HIS WORK. THE TRENCH SAFETY SYSTEM SHALL CONFORM TO THE CITY OF MISSOURI CITY TRENCH ORDINANCE.
29. ALL CHANGES IN DIRECTION FOR SIDEWALK SHALL BE DONE IN A CURVILINEAR FASHION, NOT ANGULAR.
30. PROVIDE ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
31. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS A MINIMUM OF 24 HOURS PRIOR TO STARTING CONSTRUCTION ON ALL DRIVEWAYS. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL DRIVEWAYS AT NO SEPARATE PAY.
32. OPEN TRENCHES SHALL BE ALLOWED ONLY DURING ACTIVE CONSTRUCTION AND SHALL NOT BE LEFT OPEN OVER NIGHT AND SHALL BE FENCED OFF/BARRICATED AT END OF SHIFT. NO MORE THAN 100 FEET OF TRENCH WILL BE OPEN AT ONE TIME.
33. PROTECT ALL TREES NOT CALLED OUT TO BE REMOVED.
34. IRON RODS DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED BY A REGISTERED PUBLIC LAND SURVEYOR FOR THE PROPERTY OWNER AT NO SEPARATE PAY.
35. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.

CONCRETE/PAVING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND AUTHORIZATION REQUIRED BY CITY OF MISSOURI CITY.
2. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO CONSTRUCTION AND WILL REPAIR OR REPLACE ANY DAMAGE AT CONTRACTOR'S EXPENSE.
3. PAVING CONTRACTOR SHALL PROTECT WATER, SEWER, AND DRAINAGE FACILITIES AND WILL REPLACE ANY DAMAGED FACILITIES AT HIS OWN EXPENSE. ALL MANHOLES AND VALVES WITHIN THE PAVEMENT AREA SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR WITH THE USE OF APPROVED BLOCKOUTS.
4. WHEN THE TOP OF CURB OR BOTTOM OF SIDEWALK SLAB ELEVATION VARIES FROM THE NATURAL GROUND, THE PAVING CONTRACTOR SHALL BACKFILL IN LAYERS NOT EXCEEDING 8-INCHES IN DEPTH. EACH LAYER WILL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. THE DISTURBED AREA SHALL BE SEEDED, SODDED, FERTILIZED, AND/OR SILT BARRIER FENCED WITHIN 10 WORKING DAYS. THE TYPE OF POLLUTION CONTROL WILL BE DETERMINED BY THE APPROVED PLANS, PROJECT ENGINEER AND/OR THE CITY OF MISSOURI CITY ENGINEER.
5. ALL PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF MISSOURI CITY INFRASTRUCTURE ORDINANCES, APPROVED PLANS AND SPECIFICATIONS WITH THE LATEST REVISIONS OR AMENDMENTS. IN THE EVENT OF A CONFLICT, THE CITY OF MISSOURI CITY INFRASTRUCTURE ORDINANCE GOVERNS.
6. PAVING CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT PROTECTION FENCES ON ALL STAGE I CURB INLETS. THE PAVING CONTRACTOR SHALL MAINTAIN ANY OTHER POLLUTION CONTROLS ESTABLISHED, I.E., ADDITIONAL SILT BARRIERS, SAND BAGS, ETC., FOR THE DURATION OF THE PROJECT. ANY DAMAGED OR MISSING DEVICES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS, ETC., DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE CITY OF MISSOURI CITY STANDARDS AT THE CONTRACTOR'S EXPENSE.
8. CONDITION OF THE WORK AREA (INCLUDING ROADS, RIGHT-OF-WAYS, ETC.) UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING THE WORK.
9. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.
10. REDWOOD AND KEYWAYS SHALL NOT INTERSECT WITHIN 2 FEET OF AN INLET.
11. FLY-ASH AS A PERCENTAGE OF CEMENT CONTENT WITHIN THE PAVEMENT IS ALLOWED AS DESCRIBED IN THE INFRASTRUCTURE DESIGN MANUAL.
12. ALL CONCRETE PLACED SHALL BE UNIFORMLY SPRAYED WITH A MEMBRANE CURING COMPOUND AS DESCRIBED IN ITEM 526 IN THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. IMPROPER APPLICATION WILL RESULT IN THE REJECTION OF THE CONCRETE.
13. SIX (6) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 REBAR, 24" O.C. EACH WAY IS THE MINIMUM ACCEPTABLE CONSTRUCTION FOR RESIDENTIAL STREETS
14. SEVEN (7) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 REBAR, 24" O.C. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR MAJOR COLLECTOR STREETS.
15. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, WITH #4 REBAR, 18" O.C. EACH WAY IS THE MINIMUM LE ACCEPTABLE FOR MAJOR THOROUGHFARE STREETS.
16. WHEN 6" CONCRETE PAVEMENT INTERSECTS 7" PAVEMENT, 7" PAVEMENT SHALL BE CONSTRUCTED TO THE ENDS OF ALL CURB RETURNS.
17. ALL RETURNS SHALL HAVE A MIN. 25 FT. RADIUS AT THE BACK OF CURB UNLESS OTHERWISE NOTED.
18. ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARD, THE AMERICAN DISABILITIES ACT, AND THE CITY OF MISSOURI CITY STANDARDS (LATEST REVISIONS).
19. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITHIN EACH STREET RIGHT-OF-WAY IN ACCORDANCE WITH CITY OF MISSOURI CITY, THE A.D.A., AND THE T.A.S. STANDARDS (LATEST REVISIONS).
20. CRACKS 1/16-INCH OR LARGER ARE NOT ACCEPTABLE IN NEW PAVEMENT. CRACKS 1/16-INCH OR LESS SHALL BE ADDRESSED ON AN INDIVIDUAL BASIS, SUBJECT TO APPROVAL OR REJECTION.
21. PROPER TESTING AND LAB DOCUMENTATION IS REQUIRED. FAILURE TO MEET THE MINIMUM PAVEMENT REQUIREMENTS WILL RESULT IN THE REJECTION OF SAID PAVEMENT. IMMEDIATE REMOVAL AND REPLACEMENT OF SUBSTANDARD PAVEMENT SECTIONS WILL BE NECESSARY TO SATISFY THESE REQUIREMENTS.
22. LIME DEPTH DETERMINATIONS WILL BE CONDUCTED AT EACH LOCATION OF DENSITY TESTING, LIME-STABILIZED SUBGRADE SHALL BE A MINIMUM OF 6% AT 6" UNLESS OTHERWISE DIRECTED BY CITY ENGINEER. DENSITY TESTING SHALL BE DONE IMMEDIATELY PRIOR TO PLACEMENT OF REINFORCING STEEL, AND SHALL BE COMPACTED TO A MINIMUM OF 95%. SUBGRADE DENSITY TESTS SHALL BE RETAKEN IN THE EVENT OF A > 1/2-INCH RAINFALL EVENT AT THE CONTRACTOR'S EXPENSE. NO CONCRETE SHALL BE PLACED IN STANDING WATER OR IF MOISTURE CONTENT OF SUBGRADE IS IN NON-COMPLIANCE WITH SPECIFICATIONS FOR -1% TO +4% OF OPTIMUM
23. 4-CONCRETE CYLINDERS, SLUMP, AND AIR ENTRAINMENT TESTS ARE REQUIRED FOR EACH 150 CUBIC YARDS OF CONCRETE PAVING WITH A MINIMUM OF ONE SET OF 4 PER PLACEMENT. THE CITY OF MISSOURI CITY RESERVES THE RIGHT TO REQUEST ANY-ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE, IF ANY MATERIAL APPEARS BELOW STANDARDS.
24. NO. 3 REBAR, 18-INCH C.C. E.W. IS THE MINIMUM ACCEPTABLE FOR SIDEWALKS. NUMBER 4-REBAR, 24-INCH C-C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR COMMERCIAL APPROACHES, HANDICAP RAMPS, RESIDENTAL APPROACHES AND DRIVEWAYS.
25. COLD WEATHER PRECAUTIONS. CONCRETE PAVEMENT SHALL NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS 40°F AND FALLING. CONCRETE MAY BE PLACED IF THE AMBIENT TEMPERATURE IS 35° AND RISING. CONTRACTOR SHALL PROVIDE AN APPROVED COVERING MATERIAL (COTTON MATS, POLYETHYLENE SHEETING, ETC.) IN THE EVENT TEMPERATURE SHOULD FALL BELOW 32°F. NO SALT OR OTHER CHEMICALS SHALL BE ADDED TO CONCRETE TO PREVENT FREEZING.
26. HOT WEATHER. NO CONCRETE PAVEMENT MIXTURE SHALL BE PLACED IF THE MIXTURE TEMPERATURE IS ABOVE 95°F. AIR AND WATER REDUCER ARE REQUIRED IF MIXTURE TEMPERATURE REACHES 85°F OR ABOVE.
27. IF NO AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 60 MINUTES PAST BATCH TIME. IF AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 90 MINUTES PAST BATCH TIME.
28. STRUCTURE TEMPERATURES AND TIMING FOR CONCRETE PLACEMENT MAY VARY. REFER TO TXDOT STANDARDS ITEM 420 FOR DETAILS.
29. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT A MAXIMUM SPACING OF SIXTY (60) FT. C-C WITH VERTICAL REDWOOD JOINTS EXTENDING THROUGH THE CURB @ EVERY EXPANSION JOINT. ALL JOINTS AND VERTICAL CURB JOINTS TO BE SEALED WITH LIQUID RUBBER CONFORMING TO TXDOT ITEM 380.2(8)C, CLASS-2 (HOT POURED RUBBER).
30. EXPANSION JOINT LAYOUT FOR INTERSECTIONS SHALL BE PROVIDED BY ENGINEER FOR CITY APPROVAL.
31. NO WIRE MESH IS ALLOWED IN ANY CONCRETE WITHIN THE CITY LIMITS OR ETJ.
32. ALL REBAR SHALL BE 100% TIED. OVERLAPS SHALL BE DOUBLE TIED MINIMUM.
33. ALL NEW CURB REQUIRES 3,500 P.S.I. @ 28-DAYS, AND A MINIMUM OF 1-LB/CY OF APPROVED POLYPROPYLENE FIBER MESH.

ASPHALT – OILS AND EMULSIONS

1. CONTRACTOR SHALL VERIFY LINES AND GRADES AND THAT COMPACTED BASE IS READY TO SUPPORT LOADS.
2. BASE MATERIAL SHALL BE DRY AND THOROUGHLY CLEAN OF LOOSE MATERIAL PRIOR TO APPLICATION.
3. OILS & EMULSION SHALL BE DISTRIBUTED EVENLY AND SMOOTHLY UNDER PRESSURE NECESSARY FOR PROPER DISTRIBUTION.
4. MAINTAIN REQUIRED SURFACE CONDITIONS UNTIL ACCEPTED BY THE CITY OF MISSOURI CITY.
5. PRIME COAT SHALL BE M.C.-30, M.C.-70 OR E.P.R.1 PRIME AND SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES (1993) AND ITS LATEST REVISIONS.
6. TACK COAT SHALL BE SS-1 AND SHALL COMPLY TO TXDOT, S.S.C.H.S. & B. (1993) AND ITS LATEST REVISIONS.
7. M.C.-30 AND M.C.-70 AND EPR-1 PRIME SHALL BE DISTRIBUTED AT A RATE OF .25 TO .35 GALLONS PER SQUARE YARD. AND MAY NOT BE APPLIED WHEN AMBIENT TEMPERATURE IS 50°F AND FALLING. (NOTICE: CUTBACK ASPHALTS MAY NOT BE USED DURING THE PERIOD OF APRIL 16 THROUGH SEPT. 15 AS PER ASTM D-244).
8. EPR-1 MAXIMUM WATER DILUTION IS 3 PARTS WATER TO ONE PART EPR-1.
9. SS-1 TACK COAT SHALL BE APPLIED AT A RATE NOT TO EXCEED 0.06 GAL. PER SQUARE YARD OF SURFACE AREA. CONTACT JOINTS, CURBS, ETC. SHALL BE PAINTED WITH AN EVEN THIN COAT APPLIED BY BRUSH OR BROOM. COATING MATERIAL SHALL BE HEATED TO 125°F TO 180°F WHEN APPLIED. TACK COAT MAY BE APPLIED WHEN AMBIENT TEMPERATURES ARE 40°F AND RISING. TACK COAT MAY NOT BE APPLIED IF AMBIENT AIR IS 50°F AND FALLING.

CEMENT STABILIZED SAND

1. ALL STABILIZED SAND SHALL BE A MINIMUM OF 1 1/2 SACKS PER TON.
2. CEMENT STABILIZED SAND (C.S.S.) SHALL ACHIEVE A MINIMUM OF 100 PSI WITHIN 48 HOURS.
3. A MINIMUM OF 2 RANDOM SAMPLES SHALL BE TAKEN EACH WEEK. (FOR SMALLER PROJECTS, ONE SAMPLE MAY SUFFICE WITH CITY OF MISSOURI CITY APPROVAL.) THE CITY OF MISSOURI CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL TESTS, AT THE CONTRACTORS EXPENSE IF IT IS DEEMED NECESSARY.
4. ANY C.S.S. NOT MEETING CITY OF MISSOURI CITY STANDARDS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
5. BOTH CEMENT CONTENT AND COMPRESSIVE TESTS SHALL BE CONDUCTED ON C.S.S. SAMPLES.
6. ALL C.S.S. SHALL BE COMPACTED IN MAXIMUM OF 8-INCH LIFTS AND REQUIRED TO REACH A MINIMUM DENSITY OF 95%.
7. CEMENT STAB. SAND MAY NOT BE STORED FOR LONG PERIODS. MAXIMUM ALLOWED TIME – 3 HRS FROM BATCH TIME TO HAVING BEEN INSTALLED.

BANK SAND

1. BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SILT, CLAY, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATER, MEETING THE UNIFIED SOILS CLASSIFICATIONS SYSTEM GROUP SYMBOL SW CRITERIA WITH A PLASTICITY INDEX OF LESS THAN 10. NO MORE THAN 12% OF MATERIAL CAN PASS THE No. 200 SIEVE.

HOT MIX ASPHALTIC BASE COURSE

1. NO HOT MIX ASPHALTIC BASE MAY BE INSTALLED UNTIL THE SUBGRADE HAS BEEN PROPERLY PREPARED AND TESTED AS PER THE PLANS AND SPECIFICATIONS. THE SUBGRADE SHALL BE INSPECTED AND APPROVED BY THE CITY OF MISSOURI CITY BEFORE ANY BASE MATERIALS ARE INSTALLED.
2. HOT MIX ASPHALTIC BASE MATERIALS, HANDLING, AND INSTALLATION SHALL COMPLY WITH TXDOT STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES 1995 (SECTION 02711) AND ITS LATEST REVISIONS.
3. HOT MIX ASPHALTIC MATERIALS SHALL BE AT TEMPERATURES BETWEEN 250°F AND 325°F, WHEN PLACED.
4. MATERIALS MAY NOT BE PLACED IN WET CONDITIONS OR IF THE AMBIENT TEMPERATURE IS BELOW 50°F AND FALLING. MATERIALS MAY BE INSTALLED IF THE AMBIENT TEMPERATURE IS TAKEN IN THE SHADE AND IS 40°F AND RISING.
5. PLACE BASE COURSES 4 INCHES OR GREATER IN THICKNESS IN TWO OR MORE LAYERS, EACH HAVING A COMPACTED THICKNESS OF NOT GREATER THAN 4 INCHES.
6. BASE MATERIAL MAY ONLY BE PLACED AGAINST CLEAN, STRAIGHT EDGES. SAW CUTTING, FULL DEPTH, IS REQUIRED IF EXISTING EDGES ARE ROUGH OR UNEVEN.
7. COMPACTION SHALL BEGIN WHILE MATERIAL IS STILL HOT AND AS SOON AS IT WILL BEAR THE ROLLER OR COMPACTOR WEIGHT WITHOUT UNDUE DISPLACEMENT OR HAIR CRACKING.
8. COMPACT SURFACE UNIFORMLY WITH ROLLERS OR TAMPERS IN LOCATIONS NOT READILY ACCESSIBLE (I.E., ALONG CURBS, WALLS, ETC.).
9. UNLESS OTHERWISE SPECIFIED, COMPACT DENSITY TO NOT LESS THAN 95% OF MAXIMUM POSSIBLE DENSITY.
10. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
11. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY TO A.S.T.M. ASPHALT INSTITUTE AND CITY OF MISSOURI CITY REQUIREMENTS. FAILURE TO COMPLY WILL RESULT IN REJECTION OF SAID MATERIALS AND SUCH SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. DO NOT OPEN BASE TO TRAFFIC UNTIL IT CAN BE MAINTAINED IN GOOD CONDITION AND IS CAPABLE OF SUPPORTING VEHICLE WEIGHT WITHOUT DAMAGE OR DEGRADATION.
13. DENSITIES SHALL BE TAKEN AT A MINIMUM OF AT LEAST ONCE PER 300 LF OF DRIVE LANE OR ONCE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES. FAILURE TO MEET MINIMUM REQUIREMENTS SHALL RESULT IN THE REPLACEMENT OF SAID MATERIAL AT CONTRACTOR'S EXPENSE.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED HEREIN, AT A MINIMUM OF ONCE EVERY CALENDAR DAY.
3. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEM THROUGHOUT THE DURATION OF THE CONTRACT. (NO SEPARATE PAY).
4. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
5. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEM. CONTRACTOR SHALL USE SILT FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS. (NO SEPARATE PAY).
6. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTION TAKEN TO REMEDY THE PROBLEM.
7. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER. (NO SEPARATE PAY).
8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
10. AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER/S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
11. IF EROSION AND SEDIMENTATION CONTROL SYSTEM IS EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVES WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEM FOR DAMAGE PRIOR TO CONTRACTOR STARING CONSTRUCTION OF THE CONTRACT, ANY DAMAGE NOTED AT THIS TIME SHALL BE REPAIRED AT OWNER'S EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS. THE CONTRACTOR SHALL REMOVE ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.

LIMING SUBGRADE

1. LIME SHALL BE A "SLURRY" AS PER TXDOT 260 UNLESS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE PUBLIC WORKS ENGINEER.
2. ALL LIME SLURRIES SHALL BE FURNISHED AT OR ABOVE THE MINIMUM "DRY SOLIDS" CONTENTS AS APPROVED BY THE ENGINEER.
3. SUBGRADES SHALL BE STABILIZED WITH A MINIMUM SIX PERCENT (6%) LIME BY WEIGHT, SIX INCHES (6") THICK TO REDUCE PLASTICITY INDEX (PI) TO FIFTEEN (15) AS DETERMINED LIME SERIES. ADD ONE PERCENT (1%) FOR FIELD VARIATION. IF PI OF 15 OR LESS CANNOT BE OBTAINED, THEN THE LIME TREATED SOILS MUST OBTAIN A pH OF 12.4, MUST BE INCREASED TO EIGHT INCHES (8") THICK AND COMPATED TO NINETY-FIVE PERCENT (95%) STANDARD PROCTOR DENSITY.
4. LIME DRY SOLID CONTENT TESTS SHALL BE CONDUCTED ON SITE, ONCE PER ONE-HUNDRED (100) TONS OF MATERIAL DISTRIBUTED, UNLESS OTHERWISE NOTED.
5. THE SUBGRADE SHALL BE SHAPED AND GRADED TO CONFORM TO THE TYPICAL SECTIONS, AS SHOWN ON THE PLANS, PRIOR TO TREATING THE EXISTING MATERIAL.
6. UNLESS APPROVED BY THE CITY ENGINEER, LIME OPERATIONS SHALL NOT BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS BELOW 40°F. AND FALLING. LIMING MAY, WITH APPROVAL, BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS 35°F AND RISING. LIME SHALL NOT BE PLACED WHEN WEATHER CONDITIONS, IN THE ENGINEER'S OPINION, ARE UNSUITABLE. MINIMUM AS APPROVED BY THE CITY ENGINEER.
7. THE SUBGRADE MATERIAL AND SLURRY SHALL BE THOROUGHLY MIXED, BROUGHT TO THE PROPER MOISTURE CONTENT (+ OR – 2) AND LEFT TO CURE USUALLY 3 DAYS (72 HRS.)
8. AFTER CURING, THE SUBGRADE SHALL BE REMIXED UNTIL PULVERIZATION REQUIREMENTS ARE MET, AS PER TXDOT. TEX-101-E, PART III.

	PERCENT
MINIMUM PASSING 1-3/4" SIEVE	100
MINIMUM PASSING 3/4" SIEVE	85
MINIMUM PASSING NO.4 SIEVE	60

9. SIEVE TESTS SHALL BE CONDUCTED EVERY 150 LF ON ALTERNATING LANES OF TRAFFIC OR EVERY 300 LF ON SINGLE LANES AS REQUIRED. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY OR CUL-DE-SAC.
10. THE MATERIAL SHALL BE AERATED OR MOISTENED -1% TO 4% OPTIMUM PRIOR TO COMPACTION. COMPACTION TO A MINIMUM 95% DENSITY SHALL BEGIN IMMEDIATELY AFTER ALL PULVERIZATION AND MOISTURE REQUIREMENTS ARE MET. THROUGHOUT THIS ENTIRE OPERATION, THE SURFACE SHALL BE SMOOTH AND IN CONFORMITY WITH THE LINES AND GRADES ON THE PLANS.
11. WHEN THE SUBGRADE FAILS TO MEET DENSITY REQUIREMENTS OR SHOULD IT LOSE THE REQUIRED STABILITY, DENSITY OR FINISH, IT SHALL BE REWORKED IN ACCORDANCE WITH TXDOT SUBARTICLE 260.4(7) "REWORKING A SECTION", WHICH MAY REQUIRE AN ADDITIONAL 25% OF THE SPECIFIED LIME AMOUNT.
12. THE TREATED SUBGRADE SHALL BE KEPT MOIST AND PREVENTED FROM DRYING. IN THE EVENT OF A ONE-HALF (1/2) INCH RAINFALL AND/OR IF THE MATERIAL BECOMES DRY, DENSITY AND MOISTURE TESTS SHALL BE RETAKEN.
13. NO SUBGRADE SHALL BE COVERED WITH ANOTHER MATERIAL UNLESS APPROVED BY THE CITY OF MISSOURI CITY AND LIME DEPTH TESTS HAVE BEEN COMPLETED. LIME DEPTH TESTS SHALL BE CONDUCTED AT EVERY 150 LF OF ROADWAY ON ALTERNATING LANES OR EVERY 300 LF OF SINGLE LANE. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY AND/OR CUL-DE-SAC.

No.	DATE	REVISION

GENERAL CONSTRUCTION NOTES

missouri CITY TEXAS

APPROVED BY:
CITY ENGINEER: ____ DATE ____
CONSTRUCTION PLANS FOR:

JOB No.:
SCALE: AS NOTED
SUBMITTED:
DATE: DECEMBER 2018
MC-1-19
SHEET 2 OF 32

CAD FILE PATH: CADD_FILE_PATH
PLOT DATE: DATE

PLOT TIME: TIME STAMP

ASPHALTIC CONCRETE PAVEMENT

1. ASPHALTIC MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ASTM C 33, ASTM C 131, ASTM C 136, AND TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS. ASPHALT SHALL BE TYPE D-100 UNLESS SPECIFICALLY NOTED AND APPROVED BY CITY OF MISSOURI CITY ENGINEER.
2. CONTRACTOR SHALL VERIFY ELEVATIONS AND GRADES AND THAT BASE COURSE IS READY TO SUPPORT IMPOSED LOADS.
3. APPLY A PRIME COAT AS PER CITY OF MISSOURI CITY AND TXDOT STANDARDS. DO NOT APPLY TACK COAT UNTIL PRIMED BASE COURSE HAS CURED AND IS APPROVED BY THE CONSTRUCTION INSPECTOR.
4. TACK COAT SHALL COMPLY TO CITY OF MISSOURI CITY AND TXDOT STANDARDS.
5. DO NOT USE CUTBACK ASPHALT APRIL 16 THROUGH SEPTEMBER 15.
6. DO NOT PLACE ASPHALT WHEN AMBIENT TEMPERATURE IS BELOW 50°F AND FALLING. MIXTURE MAY BE PLACED WHEN AMBIENT TEMPERATURE IS 40°F AND RISING.
7. ON PUBLIC ROADS, STREETS, AND RIGHT-OF-WAY, ASPHALT SHALL BE PLACED IN MAXIMUM 2-INCH LIFTS. IN THE EVENT MORE THAN ONE LIFT IS REQUIRED, EACH LIFT SHALL BE COMPACTED, TESTED, AND GIVEN ADEQUATE TIME FOR THE PREVIOUS LIFT TO CURE AND DRY BEFORE THE NEXT LIFT IS PLACED. IF COMPLETELY CURED AND DRIED, A TACK COAT WILL BE REQUIRED BETWEEN LIFTS.
8. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
9. ROLLING PATTERNS SHALL BE ESTABLISHED BY THE CONTRACTOR, AS RECOMMENDED BY THE LAB, TO ACHIEVE THE MAXIMUM COMPACTION. THE SELECTED ROLL PATTERN SHALL BE FOLLOWED UNLESS CHANGES IN THE PLACEMENT OR MIXTURE OCCUR, WHICH AFFECT COMPACTION. COMPACTION OF 95% SHALL BE ACHIEVED.
10. ASPHALT SHALL NOT BE PLACED ON WET BASE.
11. NO "BIRDBATHS" ARE ALLOWED.
12. IF THE SURFACE RAVELS (SEPARATES), FLUSHES, RUTS, OR DETERIORATES IN ANY MANNER PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR WILL CORRECT THIS CONDITION AT HIS EXPENSE TO THE SATISFACTION OF THE CITY OF MISSOURI CITY ENGINEER.
13. THE CONTRACTOR SHALL PROTECT THE PAVEMENT UNTIL DIRECTED BY THE CITY ENGINEER TO OPEN SAID PAVEMENT TO TRAFFIC.
14. RIDE QUALITY SHALL COMPLY WITH TXDOT ITEM 585, "RIDE QUALITY FOR PAVEMENT SURFACES".
15. SPECIAL NOTE: CONTRACTOR, WHILE MAXIMIZING COMPACTION, SHALL USE CAUTION NOT TO "OVER-ROLL" ASPHALT. PAVEMENT STRETCHED OR OVER-ROLLED, WHERE COMPACTION IS BROKEN, SHALL NOT BE ACCEPTED AND SHALL BE REPAIRED OR REPLACED TO THE CITY ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
16. CORE SAMPLES SHALL BE TAKEN RANDOMLY AT A MINIMUM OF EVERY 300 LF PER LANE OF ROADWAY OR ONE PER EVERY 250 SQ. YD., WHICHEVER IS APPLICABLE AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
17. ALL ASPHALTIC CONCRETE PAVEMENT REPAIRS SHALL BE SAW CUT TO FULL ASPHALT DEPTH. REFER TO ASPHALT, STABILIZED BASE, FLEXIBLE BASE, ASPHALT BASE, AND OIL AND EMULSION NOTES. ALL DAMAGED BASE AND SUBGRADES SHALL BE REMOVED AND REPLACED TO THE CITY'S ENGINEER SATISFACTION, AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AREA DAMAGED DURING CONSTRUCTION, INCLUDING AREAS OUTSIDE THE DESIGNATED REPAIR.

STABILIZED CRUSHED CONCRETE

1. TEST AND ANALYSIS OF AGGREGATE AND BINDER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTMD 1557 AND ASTMD 4318. CEMENT SHALL BE ASTMC 150 TYPE I.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS AND CITY OF MISSOURI CITY STANDARDS.
3. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROVIDE MINIMUM CEMENT CONTENT OF 2 SK PER TON OF MIX. CEMENT CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON FIELD SAMPLES FALL BELOW 200 PSI.
4. THREE SAMPLES SHALL BE MOLDED EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPRESSIVE STRENGTH SHALL BE THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY MATERIAL BELOW MINIMUM REQUIREMENTS.
5. CONTRACTOR SHALL VERIFY LINES, GRADES, AND COMPACTED SUBGRADING AS READY TO RECEIVE MATERIALS PRIOR TO ITS PLACEMENT.
6. CEMENT STABILIZED BASE MAY NOT BE PLACED IF AMBIENT TEMPERATURE IS 40°F AND FALLING. BASE MATERIAL MAY BE PLACED IF AMBIENT TEMPERATURE IS 35°F AND RISING.
7. MATERIAL MAY NOT BE PLACED IN LIFTS EXCEEDING 6 INCHES IN DEPTH. EACH LIFT SHALL HAVE DENSITIES TAKEN.
8. CEMENT STABILIZED BASE MAY NOT BE STORED FOR LONG PERIODS. DELIVERY OF MATERIAL AND UTILIZATION SHOULD BE TIMED ACCORDINGLY. MAXIMUM TIME ALLOWED 3 HRS. FROM BATCH TIME TO HAVING BEEN INSTALLED.
9. CEMENT STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.
10. COMPACT TO MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY. UNLESS OTHERWISE INDICATED ON DRAWINGS, MOISTURE SHALL BE BETWEEN -1% TO +4% OPTIMUM AS DETERMINED BY ASTMD 698.
11. AFTER COMPACTING FINAL COURSE, BLADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, WEAK SPOTS, AREAS OF EXCESSIVE WETNESS, OR SURFACE HAIR LINE CRACKING SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE.
12. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
13. COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 AT RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF MISSOURI CITY CONSTRUCTION INSPECTOR.
14. A MINIMUM OF ONE CORE SHALL BE TAKEN AT RANDOM LOCATIONS PER 300 LF PER LANE OF ROADWAY OR ONE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
15. CURE FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
16. COVER SURFACE WITH CURING MEMBRANES AT THE FOLLOWING RATES: MC-30:.01 GAL. PER SQ. YD., OR EPR-1 PRIME:0.15 GAL. PER SQ. YD. DO NOT USE CUTBACK ASPHALT APRIL 16 TO SEPTEMBER 15. PROTECT THE MEMBRANE BY ALLOWING MEMBRANE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.
17. UNSTABILIZED CRUSHED CONCRETE MAY NOT BE USED ON PUBLIC STREETS, ROADS, OR RIGHTS-OF-WAY,
18. STABILIZED LIMESTONE BASE MAY BE SUBSTITUTED FOR STABILIZED CRUSHED CONCRETE IF SUBMITTED AND APPROVED BY CITY ENGINEER.

STORM SEWER NOTES

1. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED WITH CITY OF MISSOURI CITY INFRASTRUCTURE DESIGN MANUAL AND IN ACCORDANCE WITH CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS.
2. ALL PIPE STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF MISSOURI CITY STANDARD DETAIL DRAWINGS.
3. ALL CEMENT STABILIZED SAND (C.S.S.) SHALL BE 1 1/2 SACK PER TON. AND MEET MINIMUM C.S.S. STANDARDS COMPACTED TO 95%.
4. ALL STORM SEWERS UNDER AND WITHIN TWO (2) FOOT OF PROPOSED OR FUTURE PAVEMENTS SHALL BE BACKFILLED AND COMPACTED WITH 1 1/2 SACK PER TON C.S.S. TO BOTTOM OF SUBGRADE.
5. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES ON INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS WITH FULL MORTAR HEAD AND BED JOINTS AND GROUTED WITH A MINIMUM OF 1/2-INCH MORTAR INSIDE AND OUTSIDE, UNLESS OTHERWISE NOTED.
6. MANHOLES IN HANDICAP RAMPS ARE NOT ALLOWED
7. ALL STORM SEWER MANHOLES SHALL BE OF MISSOURI CITY TYPE "C" UNLESS OTHERWISE NOTED AND SHALL BE LOCATED A MINIMUM OF THREE (3) FEET BACK OF CURB.
8. RIM ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTOR SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE THE FINISH GRADE AT EACH LOCATION AFTER CONTRACTOR HAS COMPLETED FINAL GRADING. SLOPED FILL SHALL BE ADDED FOR STORM WATER DRAINAGE AWAY FROM RIM.
9. RIM ELEVATIONS SHALL BE PROPERLY ADJUSTED TO GRADE IN PAVEMENT AND SIDEWALKS. APPROVED BLOCKOUTS SHALL BE USED IN PAVEMENT.
10. ALL STORM SEWER MANHOLE COVERS MUST INCLUDE "STORM SEWER" AND "DUMP NO WASTE", "DRAINS TO WATERWAYS" WITH CITY OF MISSOURI CITY EMBLEM.
11. MINIMUM STORM SEWER SIZE SHALL BE 24-INCH DIAMETER. ALL STORM SEWER PIPES 24" AND LARGER ARE TO BE REINFORCED CONCRETE PIPE ASTM C-76 CLASS III, INCLUDING INLET LEADS CROSSING UNDER EXISTING OR PROPOSED PAVEMENTS. ALL INLET LEADS SHALL BE 24" R.C.P. OR LARGER. ALL STORM SEWER PIPE SHALL BE RUBBER GASKETED. ALL CMP PIPE SHALL BE IN ACCORDANCE WITH C.O.M.C. APPROVED PRODUCT LIST AND STANDARD DETAILS.
12. CONTRACTOR SHALL VERIFY NATURAL GROUND SHOTS PRIOR TO MANHOLE CONSTRUCTION.
13. CONTRACTOR TO PROVIDE A MINIMUM OF 6-INCHES CLEARANCE AT STORM AND WATER LINE CROSSINGS AND A MINIMUM OF SIX (6) INCHES AT SANITARY SEWER CROSSING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACKSLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
15. ALL DITCHES SHALL BE RESTORED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE COMPACTED AND ALL DISTURBED AREAS SHALL BE RESEEDED OR RESODDED WITHIN 10 WORKING DAYS OF EACH OCCURRENCE (NO SEPARATE PAY).
16. THE UTILITY CONTRACTOR SHALL ROUGH CUT ALL ROADSIDE SWALES IN PROPER ALIGNMENT AND SLOPE TO WITHIN 0.2 FT. OF FINISH GRADE. THE PAVING CONTRACTOR, UPON COMPLETION OF PAVING, SHALL COMPLETE FINAL GRADING ALIGNMENT OF SWALES AND RESTORE ALL AREAS WITHIN RIGHT-OF-WAY FOR SEEDING OR SODDING AND FERTILIZATION.
17. REFER TO GENERAL NOTES AND C.S.S. NOTES.

SANITARY SEWER NOTES

1. SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED AS PER THE REQUIREMENTS OF THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS". SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS SHALL GOVERN.
2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL COMPLY WITH THE CITY OF MISSOURI CITY INFRASTRUCTURE DESIGN MANUAL AND THE CURRENT APPROVED PRODUCTS LIST AS MAINTAINED BY THE DEPARTMENT OF PUBLIC WORKS.
3. STACKS SHALL BE BUILT IN ACCORDANCE WITH THE CITY OF MISSOURI CITY STANDARD DETAIL DRAWING REQUIREMENTS. EXACT LOCATION OF THE STACK SHALL BE SUPPLIED TO THE CITY ENGINEER OF MISSOURI CITY BY THE PROJECT ENGINEER ON SEALED AS-BUILT DRAWINGS AT COMPLETION OF CONSTRUCTION. ALL STACKS SHALL BE INSTALLED WITHIN 3% OF PLUMB RELATIVE TO VERTICAL PLANE AND WILL BE CAPPED AND TERMINATED AT A DEPTH OF 4 FEET BELOW FINISHED GRADE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
4. ALL PVC SANITARY SEWER PIPING SHALL BE GREEN IN COLOR.
5. EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL INCLUDE 4" PVC PIPE AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH MARKER SHALL BE PAINTED RED AND LABELED "SANITARY SEWER STUB", "SANITARY SEWER WYE" OR "SANITARY SEWER STACK" AS APPROPRIATE WITH STUB, WYE BRANCH OUTLET OR STACK SIZE NOTED.
6. SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED AS PER DRAWINGS INCORPORATED IN CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS SHEETS. SUCH MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF ONE FOOT FROM BACK OF CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF TRAVELLED ROADWAY ON THOSE THOROUGHFARES HAVING NO CURBING, MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS. CAST IN PLACE MANHOLES AND FIBERGLASS MANHOLES ARE PROHIBITED. ALL MANHOLES SHALL HAVE ECCENTRIC CONES.
7. SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM OF 32 INCHES IN DIAMETER. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF MISSOURI CITY EMBLEM AND THE WORDS "MISSOURI CITY" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS SHEETS.
8. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE, AND 0.5 FEET ABOVE NATURAL GROUND WITHIN RIGHTS-OF-WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER PAVEMENT CONTRACTOR HAS COMPLETED FINAL GRADING. THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
9. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN NINE FEET OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE SEPARATION DISTANCES OF GREATER THAN NINE FEET CANNOT BE MAINTAINED.
10. TESTING OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE CONDUCTED AS NOTED IN SANITARY SEWER CHAPTER OF THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS".
11. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
12. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY INFRASTRUCTURE STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. CONTRACTOR SHALL NOTIFY INSPECTOR 24-HOURS PRIOR TO INSPECTION.

WATER DISTRIBUTION NOTES

1. WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED AS PER REQUIREMENTS OF THE CITY OF MISSOURI CITY INFRASTRUCTURE DESIGN MANUAL AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS SHALL GOVERN.
2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL COMPLY WITH THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND THE CURRENT APPROVED PRODUCTS LIST AS MAINTAINED BY THE DEPARTMENT OF PUBLIC WORKS.
3. ALL GATE VALVES INSTALLED BELOW GRADE SHALL BE OF NON-RISING STEM DESIGN.
4. ALL FIRE HYDRANTS SHALL BE FACTORY PAINTED WITH POLYUREHANE GRAY WITH WHITE CAPS AND BONNET. SHOULD THE HYDRANT BONNET AND CAPS REQUIRE A DIFFERENT COLOR, THE CAPS AND BONNET SHALL COME FROM THE FACTORY PRIME COATED OR ORDERED WITH THE CORRECT COLOR. PAINT SHALL BE APPLIED PRIOR TO INSTALLATION. FIELD PAINTING OF THE HYDRANTS IS NOT ALLOWED OTHER THAN TOUCH-UP. CAP AND BONNET COLOR CHART IS LISTED IN THE INFRASTRUCTURE ORDINCE.
6. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 217, 290. APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN 9' (FT) OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO MOCITY STANDARDS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE DISTANCES ARE GREATHER THAN 9' (NINE) FT. CANNOT BE MAINTAINED.
7. EACH WATER SERVICE LEAD STUB SHALL BE MARKED IN ACCORDANCE WITH THE C.OM.C., AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER MARKER SHALL BE PAINTED BLUE AND LABELED "POTABLE WATER" WITH PIPE SIZE NOTED.
8. TESTING OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C605, CURRENT REVISION.
9. DISINFECTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C651 AND TCEQ. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL NEWLY CONSTRUCTED WATER LINES HAVE BEEN THOROUGHLY DISINFECTED, TESTED, FLUSHED, AND SAMPLED AND CONNECTION HAS BEEN AUTHORIZED BY THE CITY ENGINEER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
11. ALL WATER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE TO INFRASTRUCTURE STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. 24-HOUR NOTICE REQUIRED.

No.	DATE	REVISION

GENERAL CONSTRUCTION NOTES

missouri CITY TEXAS

APPROVED BY:
CITY ENGINEER: ____ DATE ____
CONSTRUCTION PLANS FOR:

JOB No.:
SCALE: AS NOTED
SUBMITTED:
DATE: DECEMBER 2018
MC-2-19
SHEET 3 OF 32

CAD FILE PATH: CADD_FILE_PATH
PLOT DATE: DATE

Stantec

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D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KB	MN	KB	2025.09.24

Permit/Seal
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo
2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

Title
GENERAL NOTES

Project No.
C24-052-00
Scale

Revision
Drawing No.
C001 - HGES

ORIGINAL SHEET - ARCH E1

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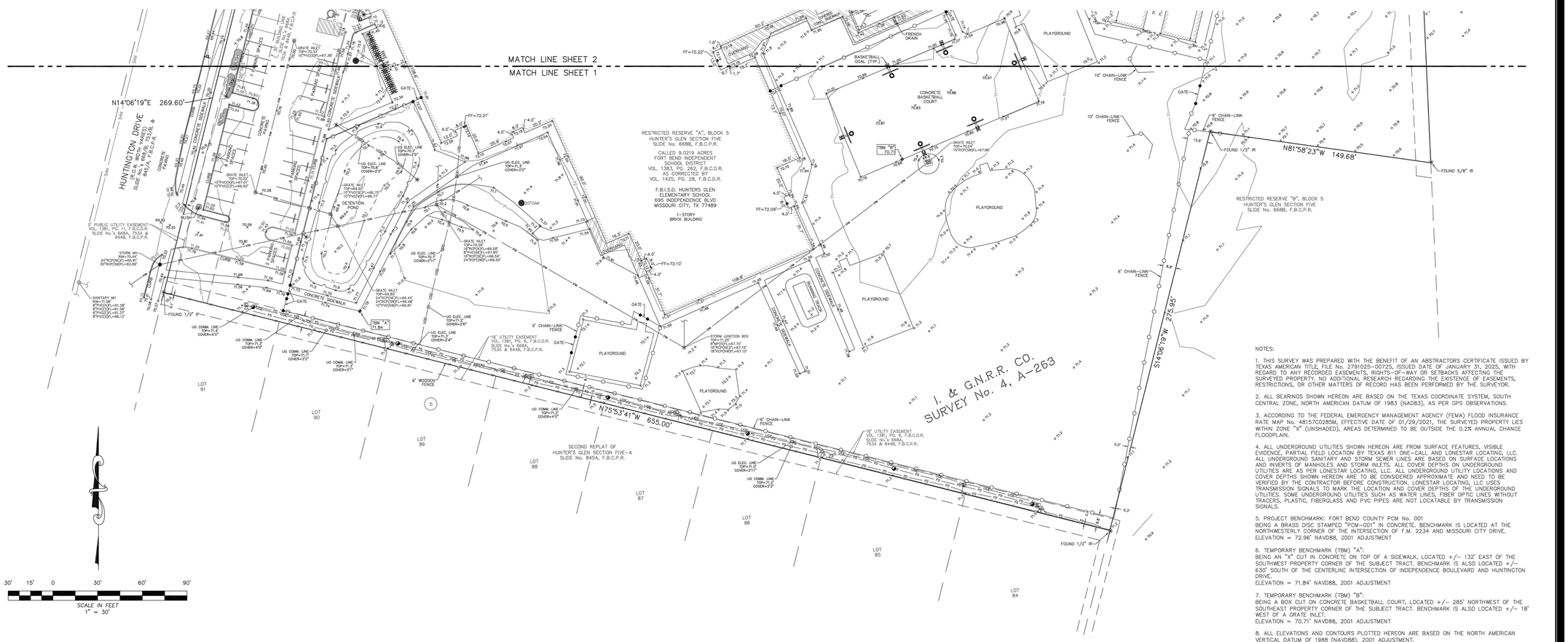

NOTES:

1. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF AN ABSTRACTORS CERTIFICATE ISSUED BY TEXAS AMERICAN TITLE, FILE No. 2791025-00725, ISSUED DATE OF JANUARY 31, 2025, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS-OF-WAY OR SETBACKS AFFECTING THE SURVEYED PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.

2. ALL BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), AS PER GPS OBSERVATIONS.

3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48157C0285M, EFFECTIVE DATE OF 01/29/2021, THE SURVEYED PROPERTY LIES WITHIN ZONE "X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

4. ALL UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SURFACE FEATURES, VISIBLE EVIDENCE, PARTIAL FIELD LOCATION BY TEXAS 811 ONE-CALL AND LONESTAR LOCATING, LLC. ALL UNDERGROUND SANITARY AND STORM SEWER LINES ARE BASED ON SURFACE LOCATIONS AND INVERTS OF MANHOLES AND STORM INLETS. ALL COVER DEPTHS ON UNDERGROUND UTILITIES ARE AS PER LONESTAR LOCATING, LLC. ALL UNDERGROUND UTILITY LOCATIONS AND COVER DEPTHS SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE AND NEED TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. LONESTAR LOCATING, LLC USES TRANSMISSION SIGNALS TO MARK THE LOCATION AND COVER DEPTHS OF THE UNDERGROUND UTILITIES. SOME UNDERGROUND UTILITIES SUCH AS WATER LINES, FIBER OPTIC LINES WITHOUT TRACERS, PLASTIC, FIBERGLASS AND PVC PIPES ARE NOT LOCATABLE BY TRANSMISSION SIGNALS.

5. PROJECT BENCHMARK: FORT BEND COUNTY PCM No. 001
BEING A BRASS DISC STAMPED "PCM-001" IN CONCRETE. BENCHMARK IS LOCATED AT THE NORTHWESTERLY CORNER OF THE INTERSECTION OF F.M. 2234 AND MISSOURI CITY DRIVE.
ELEVATION = 72.96' NAVD88, 2001 ADJUSTMENT

6. TEMPORARY BENCHMARK (TBM) "A":
BEING AN "X" CUT IN CONCRETE ON TOP OF A SIDEWALK, LOCATED +/- 132' EAST OF THE SOUTHWEST PROPERTY CORNER OF THE SUBJECT TRACT. BENCHMARK IS ALSO LOCATED +/- 630' SOUTH OF THE CENTERLINE INTERSECTION OF INDEPENDENCE BOULEVARD AND HUNTINGTON DRIVE.
ELEVATION = 71.84' NAVD88, 2001 ADJUSTMENT

7. TEMPORARY BENCHMARK (TBM) "B":
BEING A BOX CUT ON CONCRETE BASKETBALL COURT, LOCATED +/- 285' NORTHWEST OF THE SOUTHEAST PROPERTY CORNER OF THE SUBJECT TRACT. BENCHMARK IS ALSO LOCATED +/- 18' WEST OF A GRATE INLET.
ELEVATION = 70.71' NAVD88, 2001 ADJUSTMENT

8. ALL ELEVATIONS AND CONTOURS PLOTTED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), 2001 ADJUSTMENT.

SYMBOLS

- = FOUND 1/2-INCH IRON PIPE (UNLESS OTHERWISE NOTED)
- = SET 5/8-INCH IRON ROD W/MILLER SURVEY CAP (UNLESS OTHERWISE NOTED)
- = ANGLE POINT
- = A.C. PAD
- BOV = BLOW OFF VALVE
- = BOLLARD
- = CABLE BOX
- = CABLE MARKER
- = CLEAN-OUT
- = CURB INLET
- = E-INLET
- = ELECTRIC BOX
- = ELECTRIC MANHOLE
- FDC = FIRE DEPARTMENT CONNECTION
- = FLAG POLE
- FH = FLUSH VALVE (FIRE HYDRANT)
- = GAS METER
- = GAS VALVE
- = GRATE INLET
- = GREASE TRAP
- = GUY ANCHOR
- = HANDICAPPED PARKING SPACE
- = IRRIGATION CONTROL VALVE
- = JUNCTION BOX
- = LIGHT STANDARD
- = WATER MANHOLE
- PM = PIPELINE MARKER
- = POWER POLE
- = POWER POLE W/LIGHT
- = SAMPLE WELL
- = SANITARY MANHOLE
- = SERVICE POLE
- = SIGN
- = SPRINKLER HEAD
- = STORM MANHOLE
- = TREE
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL CONTROL BOX
- = TRAFFIC SIGNAL POLE
- = WATER METER
- = WATER VALVE

LINE TYPES

- = BARBED-WIRE FENCE
- = WOOD FENCE
- = CHAIN-LINK FENCE
- = WROUGHT IRON FENCE
- = OVERHEAD ELECTRIC LINE
- = UNDERGROUND ELECTRIC LINE
- = UNDERGROUND GAS LINE
- = UNDERGROUND FIBER OPTIC LINE
- = UNDERGROUND TELEPHONE LINE
- = UNDERGROUND STORM LINE
- = STORM LINE CULVERT
- = UNDERGROUND SANITARY LINE
- = UNDERGROUND WATER LINE
- = UNDERGROUND PIPELINE
- = CURB AND GUTTER LINE
- = EDGE OF CONCRETE
- = EDGE OF ASPHALT
- = EDGE OF GRAVEL
- = HIGH BANK LINE
- = GRADE BREAK LINE
- = TOE SLOPE LINE
- = TREE LINE

LEGEND

AC.	= ACRE
A.E.	= AERIAL EASEMENT
B.L.	= BUILDING LINE
CHB	= CHORD BEARING
CHD	= CHORD LENGTH
D.E.	= DRAINAGE EASEMENT
ESMT.	= EASEMENT
F.B.C.C.F.	= FORT BEND COUNTY CLERK'S FILE
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L.E.	= LANDSCAPE EASEMENT
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PVT.	= PRIVATE
S.F.	= SQUARE FEET
SAN.S.E.	= SANITARY SEWER EASEMENT
STM.S.E.	= STORM SEWER EASEMENT
U.E.	= UTILITY EASEMENT
W.L.E.	= WATER LINE EASEMENT
P.O.B.	= POINT OF BEGINNING
I.R.	= IRON ROD
I.P.	= IRON PIPE
H.L.&P.	= HOUSTON LIGHTING AND POWER
CRM	= CRAPE MYRTLE

FBISD HUNTER'S GLEN ELEMENTARY
695 INDEPENDENCE BLVD
MISSOURI CITY, TX 77489 SHEET 1 OF 2

REVISED: 09/16/2025 ADDITIONAL TOPO

TOPOGRAPHIC SURVEY PLAT
FORT BEND I.S.D.
HUNTER'S GLEN ELEMENTARY

LOCATED IN THE
I. & G.N.R.R. CO. SURVEY No. 4, A-263
FORT BEND COUNTY, TEXAS

MillerSurvey
DCCM
Miller Survey | Firm Reg. No. 10047100
1760 W. Sam Houston Pkwy N.
Houston, TX 77043
713.413.1900 | millersurvey.com

JOB No.: 002984-PH. 2	SCALE: 1"= 30'	DATE: 02/14/2025	FIELD BOOK: 25-003/GG
DWG. No.: 002984-DS.DWG	DRAWN BY: NPR/TJG	CHECKED BY: BJN/ARP	M&B No.: N/A

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Consultant

Dally + Associates
9800 Richmond Avenue, Suite 460
Houston, Texas 77042 713 337 8881
TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KB	MN	KB	2025.09.24

Permit/Seal

Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

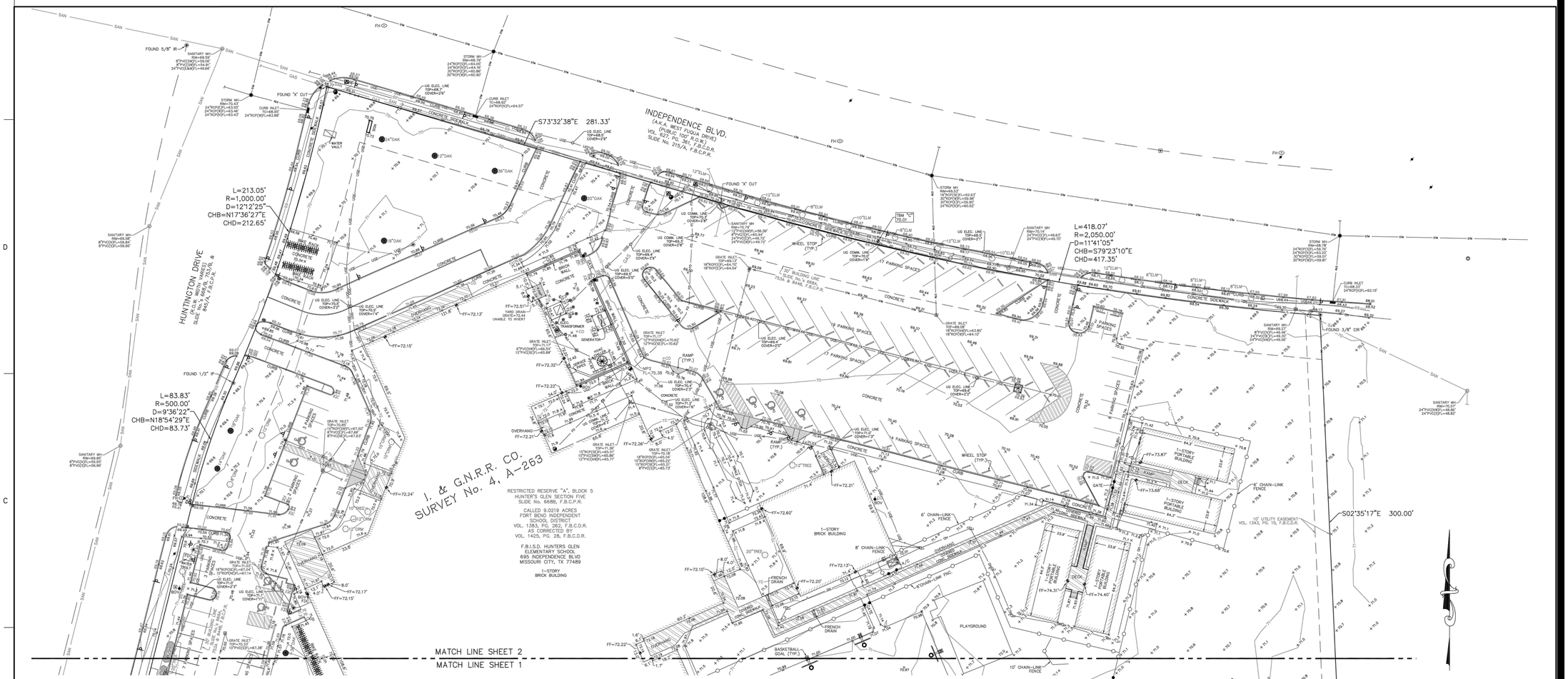
695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

Title
TOPOGRAPHIC SURVEY
(SHEET 1 OF 2)

Project No.	Scale
C24-052-00	
Revision	Drawing No.
	C002 - HGES

P:\DS - PROJECTS\CIVIL\2024\C24-052-00 FBISD (DYAR BEND) AND ADJOINS\CAD_HGES\SURVEY\SH1.DWG 9/23/2025 5:19 PM
BJN, JOB FOLDER\2025\FBISD - FBISD HUNTER'S GLEN ELEM\DWG\2025\09 - SEPTEMBER, 9/24/25, Any Team

ORIGINAL SHEET - ARCH E1



SYMBOLS

- = FOUND 1/2-INCH IRON PIPE (UNLESS OTHERWISE NOTED)
- = SET 5/8-INCH IRON ROD W/MILLER SURVEY CAP (UNLESS OTHERWISE NOTED)
- = ANGLE POINT
- = A.C. PAD
- BOV = BLOW OFF VALVE
- = BOLLARD
- = CABLE BOX
- = CABLE MARKER
- CO = CLEAN-OUT
- = CURB INLET
- = E-INLET
- = ELECTRIC BOX
- = ELECTRIC MANHOLE
- FDC = FIRE DEPARTMENT CONNECTION
- = FLAG POLE
- FH = FLUSH VALVE (FIRE HYDRANT)
- = GAS METER
- = GAS VALVE
- = GRATE INLET
- = GREASE TRAP
- = GUY ANCHOR
- = HANDICAPPED PARKING SPACE
- = IRRIGATION CONTROL VALVE
- = JUNCTION BOX
- = LIGHT STANDARD
- = WATER MANHOLE
- PM = PIPELINE MARKER
- = POWER POLE
- = POWER POLE W/LIGHT
- = SAMPLE WELL
- = SANITARY MANHOLE
- = SERVICE POLE
- = SIGN
- = SPRINKLER HEAD
- = STORM MANHOLE
- = TREE
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL CONTROL BOX
- = TRAFFIC SIGNAL POLE
- = WATER METER
- = WATER VALVE

LINE TYPES

- = BARBED-WIRE FENCE
- = WOOD FENCE
- = CHAIN-LINK FENCE
- = WROUGHT IRON FENCE
- = OVERHEAD ELECTRIC LINE
- = UNDERGROUND ELECTRIC LINE
- = UNDERGROUND GAS LINE
- = UNDERGROUND FIBER OPTIC LINE
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NOTES:

1. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF AN ABSTRACTORS CERTIFICATE ISSUED BY TEXAS AMERICAN TITLE, FILE No. 2791025-00725, ISSUED DATE OF JANUARY 31, 2025, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS-OF-WAY OR SETBACKS AFFECTING THE SURVEYED PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.

2. ALL BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), AS PER GPS OBSERVATIONS.

3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48157C0228M, EFFECTIVE DATE OF 01/29/2021, THE SURVEYED PROPERTY LIES WITHIN ZONE "X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

4. ALL UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SURFACE FEATURES, VISIBLE EVIDENCE, PARTIAL FIELD LOCATION BY TEXAS 811 ONE-CALL AND LONESTAR LOCATING, LLC. ALL UNDERGROUND SANITARY AND STORM SEWER LINES ARE BASED ON SURFACE LOCATIONS AND INVERTS OF MANHOLES AND STORM INLETS. ALL COVER DEPTHS ON UNDERGROUND UTILITIES ARE AS PER LONESTAR LOCATING, LLC. ALL UNDERGROUND UTILITY LOCATIONS AND COVER DEPTHS SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE AND NEED TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. LONESTAR LOCATING, LLC USES TRANSMISSION SIGNALS TO MARK THE LOCATION AND COVER DEPTHS OF THE UNDERGROUND UTILITIES. SOME UNDERGROUND UTILITIES SUCH AS WATER LINES, FIBER OPTIC LINES WITHOUT TRACERS, PLASTIC, FIBERGLASS AND PVC PIPES ARE NOT LOCATABLE BY TRANSMISSION SIGNALS.

5. PROJECT BENCHMARK: FORT BEND COUNTY PCM No. 001
BEING A BRASS DISC STAMPED "PCM-001" IN CONCRETE. BENCHMARK IS LOCATED AT THE NORTHWESTERLY CORNER OF THE INTERSECTION OF F.M. 2234 AND MISSOURI CITY DRIVE.
ELEVATION = 72.96' NAVD88, 2001 ADJUSTMENT

6. TEMPORARY BENCHMARK (TBM) "A":
BEING AN "X" CUT IN CONCRETE ON TOP OF A SIDEWALK, LOCATED +/- 132' EAST OF THE SOUTHWEST PROPERTY CORNER OF THE SUBJECT TRACT. BENCHMARK IS ALSO LOCATED +/- 630' SOUTH OF THE CENTERLINE INTERSECTION OF INDEPENDENCE BOULEVARD AND HUNTINGTON DRIVE.
ELEVATION = 71.84' NAVD88, 2001 ADJUSTMENT

7. TEMPORARY BENCHMARK (TBM) "B":
BEING A BOX CUT ON CONCRETE BASKETBALL COURT, LOCATED +/- 285' NORTHWEST OF THE SOUTHEAST PROPERTY CORNER OF THE SUBJECT TRACT. BENCHMARK IS ALSO LOCATED +/- 18' WEST OF A GRATE INLET.
ELEVATION = 70.71' NAVD88, 2001 ADJUSTMENT

8. ALL ELEVATIONS AND CONTOURS PLOTTED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), 2001 ADJUSTMENT.

LEGEND

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REVISED:	09/16/2025 ADDITIONAL TOPO

TOPOGRAPHIC SURVEY PLAT
FORT BEND I.S.D.
HUNTER'S GLEN ELEMENTARY

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MillerSurvey

DCCM

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JOB No.: 002984-PH. 2	SCALE: 1"= 30'	DATE: 02/14/2025	FIELD BOOK: 25-003/GG
DWG. No.: 002984-DS.DWG	DRAWN BY: NPR/TJG	CHECKED BY: BJN/ARP	M&B No.: N/A

SHEET 2 OF 2

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TEXAS REGISTERED ENGINEERING
FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	KB	MN	KB	2025.09.24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

Title
TOPOGRAPHIC SURVEY
(SHEET 2 OF 2)

Project No.	Scale
C24-052-00	
Revision	Drawing No.
	C003 - HGES

P:\00-PROJECTS\CIVIL\2024\C24052-001\BIM\SHEETS\C24052-001_HGES_SURVEY SHT.DWG 9/23/2025 5:19 PM
ORIGINAL SHEET - ARCH E1

0' 15' 30' 60'

SCALE: 1"=30'

LEGEND

PROPOSED BUILDING LIMITS

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.

GENERAL DEMOLITION KEY NOTES:

- (X1) EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED.
- (X2) EXISTING FENCE TO BE REMOVED AND REPLACED.
- (X3) EXISTING GATE TO BE REMOVED & REPLACED WITH ENTRY FIRE ACCESS ROAD GATE WITH KNOX BOX.

PAVING DEMOLITION KEY NOTES:

- (P1) EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- (P2) SAWCUT EXISTING CONCRETE PAVEMENT.
- (P3) EXISTING CONCRETE PAVEMENT TO BE REMOVED & REPLACED.

DRAINAGE DEMOLITION KEY NOTES:

- (D1) EXISTING STORM SEWER LINE TO BE CUT AND PLUGGED.
- (D2) CUT & PLUG EXISTING 15" STORM SEWER AND ABANDON AND FILL WITH GROUT.
- (D3) EXISTING STORM SEWER INLET TO BE REMOVED.
- (D4) EXISTING STORM SEWER LINE TO BE CUT AND REMOVED.
- (D5) EXISTING POND TO BE REGRADED.

ELECTRICAL DEMOLITION KEY NOTES:

NOTE: ALL ELECTRICAL ITEMS TO BE CUT, PLUGGED OR REMOVED SHALL BE COORDINATED WITH SERVICE PROVIDER AND MEP.

- (E1) EXISTING UNDERGROUND ELECTRICAL LINE BETWEEN LIGHT POLES TO BE REMOVED AND REPLACED.

SAWCUT NOTES:

1. SAWCUT 2" MINIMUM DEPTH, EXPOSE AND CLEAN EXISTING REINFORCING STEEL.
2. IF NO REINFORCING STEEL EXISTS, #5 HORIZONTAL DOWELS, 24" LONG, GRADE 60, SHALL BE DRILLED AND EMBEDDED 12" INTO THE CENTER OF EXISTING CONCRETE WITH EPOXY.
3. ALL REINFORCING STEEL SHALL BE PLACED 3" CLEAR (2" ABSOLUTE MINIMUM) FROM EDGE OF CONCRETE.

Stantec

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STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
Houston, Texas 77042 | 713 337 8881
TEXAS REGISTERED ENGINEERING
FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	KB Dwn.	MN Dsgn.	KB Chkd.	2025.09.24 YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

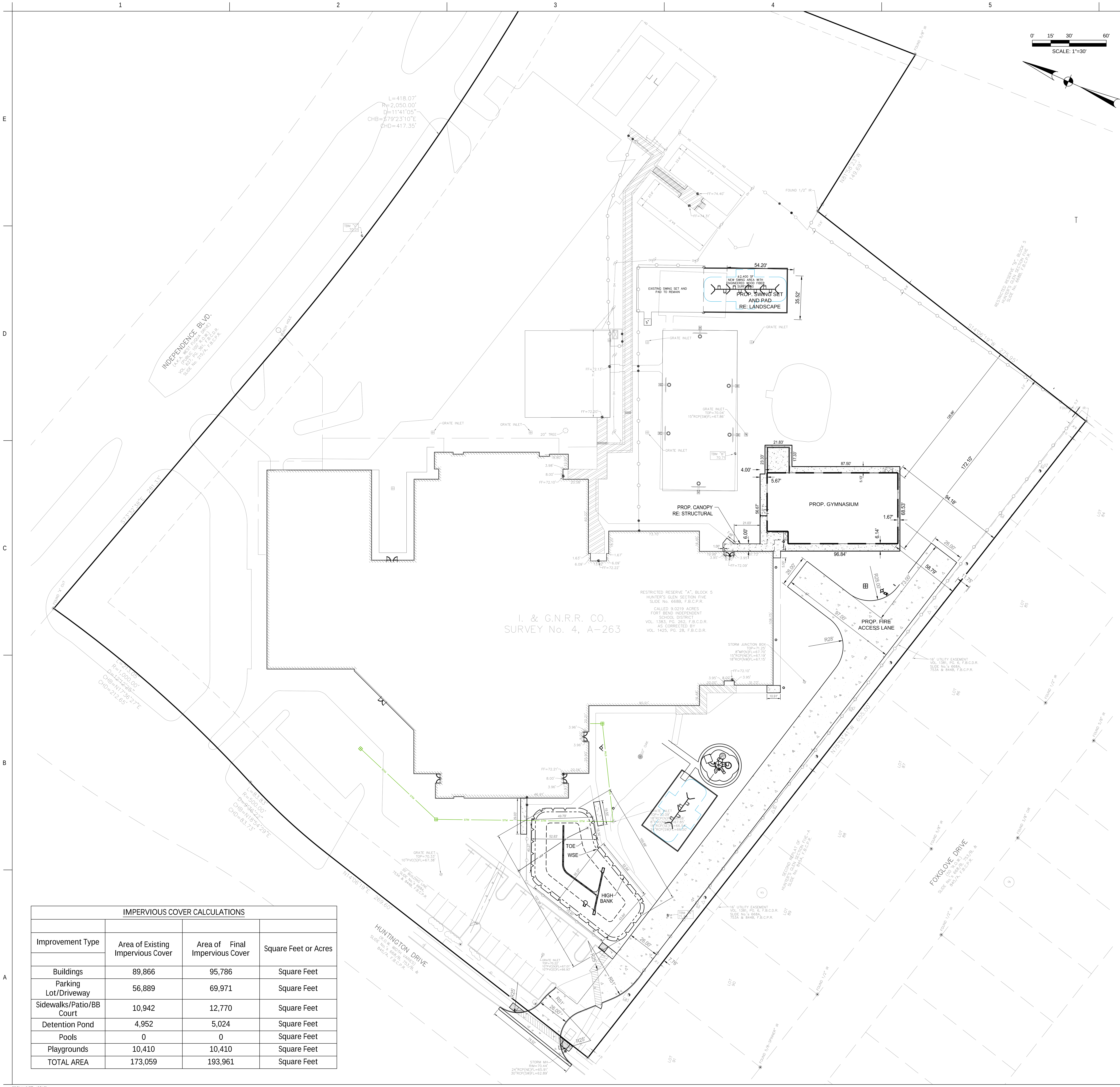
Title
DEMOLITION PLAN

Project No.	Scale
C24-052-00	
Revision	Drawing No.

C100 - HGES

P:\00-PROJECTS\D+A\2024\C24-052-00 FBISD @PS22 GYM REMOD AND ADDBOND\CAD_HGES\1.0\DWG\2.DWG 9/22/2025 5:53 PM

ORIGINAL SHEET - ARCH (1)



0' 15' 30' 60'

SCALE: 1"=30'

LEGEND

- PROPOSED BUILDING LIMITS
- PROPOSED 5" CONCRETE PAVING
- PROPOSED 7" CONCRETE PAVING FOR FIRE LANE

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IMPERVIOUS COVER CALCULATIONS

Improvement Type	Area of Existing Impervious Cover	Area of Final Impervious Cover	Square Feet or Acres
Buildings	89,866	95,786	Square Feet
Parking Lot/Driveway	56,889	69,971	Square Feet
Sidewalks/Patio/BB Court	10,942	12,770	Square Feet
Detention Pond	4,952	5,024	Square Feet
Pools	0	0	Square Feet
Playgrounds	10,410	10,410	Square Feet
TOTAL AREA	173,059	193,961	Square Feet

P:\00 - PROJECTS\CIVIL\2024\C24-052-00 FBISD BP022 GYM RENO AND ADDITIONS\CAD_HGES\LAYOUT.DWG 9/22/2025 5:54 PM

ORIGINAL SHEET - ARCH E1

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TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

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100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KB	MN	KB	2025.09.24

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

Title

LAYOUT & PAVING PLAN

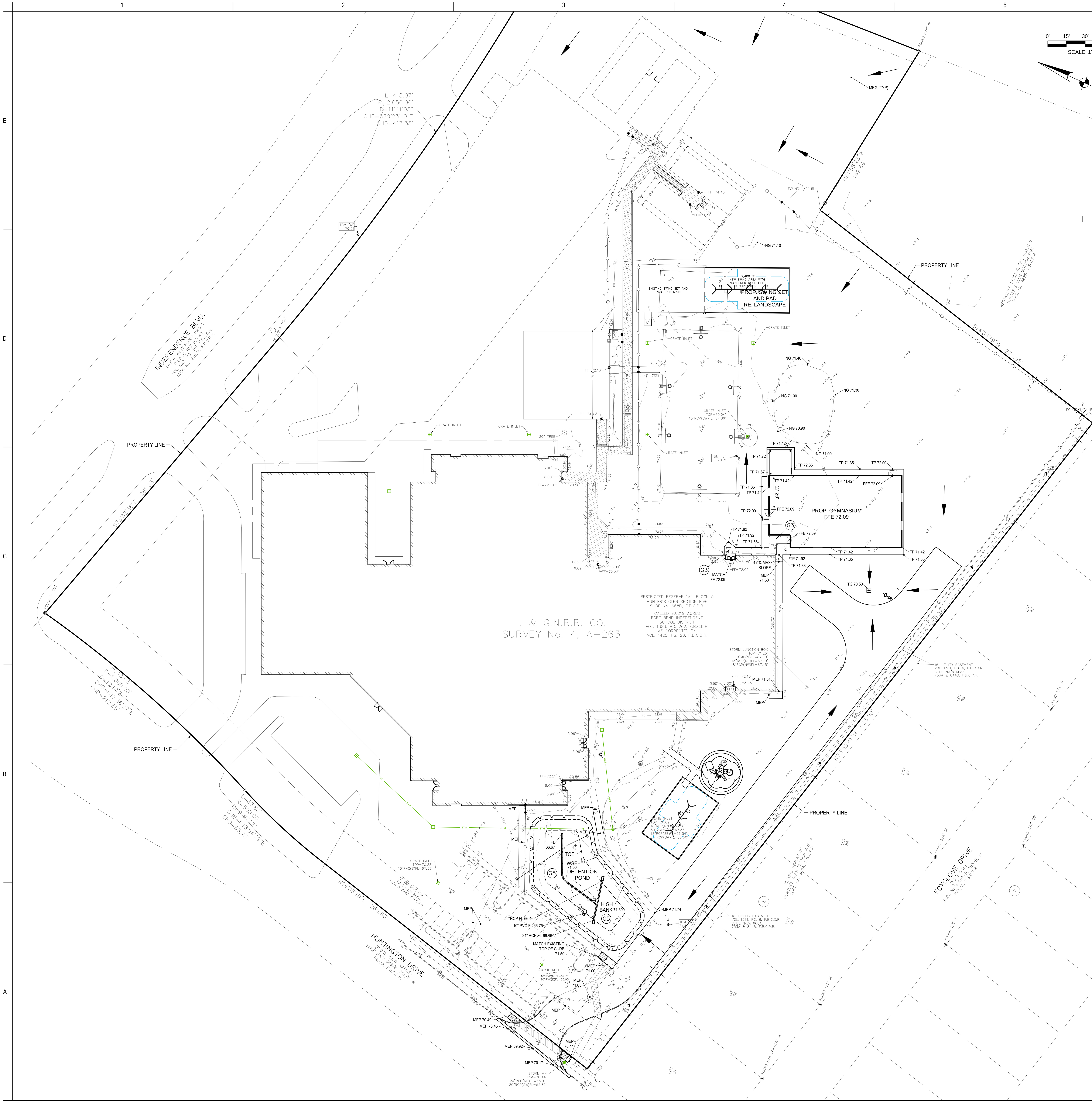
Project No.
C24-052-00

Scale

Revision

Drawing No.

C200 - HGES



LEGEND

EL	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FL	FLOW LINE
HP	HIGH POINT
MEG	MATCH EXISTING GRADE
MEP	MATCH EXISTING PAVEMENT
MEC	MATCH EXISTING CURB
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
+65.9	Existing Grade
TP XX.XX	PROPOSED GRADE
(grey box)	NOT IN SCOPE
(arrow)	GRADE TO DRAIN

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9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.

GRADING KEY NOTES:

- G1 PROPOSED CANOPY.
- G2 RAMP DOWN TO PLAYGROUND @ 1:12 MAX.
- G3 1.9% MAX SLOPE IN ANY DIRECTION UNDERNEATH CANOPY. REMOVE ADDITIONAL PAVEMENT AS REQUIRED FOR ACCESSIBILITY COMPLIANCE.
- G4 RAMP DOWN TO PLAYGROUND @ 1:12 MAX.
- G5 DETENTION POND BOTTOM SLOPE 1% MINIMUM TO CONCRETE PILOT CHANNEL WITH 0.25% MINIMUM SLOPE.
- G6 REPLACE EXISTING UNDERGROUND ELECTRICAL LINE BETWEEN LIGHT POLES. MATCH EXISTING. COORDINATE WITH ELECTRICAL ENGINEER OF RECORD.

DETENTION SUMMARY

TOTAL DRAINAGE AREA / PROJECT LIMITS	392,994	SQ-FT
TOTAL IMPERVIOUS COVER	193,961	SQ-FT
% IMPERVIOUS COVER	49.35%	SQ-FT
DISTURBED AREA RESULTING IN IMPERVIOUS COVER	13,385	SQ-FT
REQUIRED DETENTION RATE	0.980	
REQUIRED DETENTION VOLUME	0.3011	AC-FT
	13,117	CU-FT
EXISTING DETENTION VOLUME	0.0616	AC-FT
	2,682	CU-FT
TOTAL DETENTION VOLUME REQUIRED FOR PROPOSED DEVELOPMENT AND TO REPLACE EXISTING POND VOLUME	0.3627	AC-FT
	15,799	CU-FT
PROVIDED DETENTION VOLUME	0.3942	AC-FT
	17,170	CU-FT
SURPLUS DETENTION VOLUME PROVIDED	0.0315	AC-FT
	1,371	CU-FT

EXISTING POND VOLUME

TOE AREA	2,362	SF
AVERAGE TOE ELEVATION	70.20	
WATER SURFACE AREA	4,311	SF
WATER SURFACE ELEVATION	71.00	
AVERAGE DEPTH	0.80	FT
EXISTING VOLUME	2,682	CF

PROPOSED POND VOLUME

TOE AREA	2,540	SF
AVERAGE TOE ELEVATION	66.46	
WATER SURFACE AREA	5,024	SF
WATER SURFACE ELEVATION	71.00	
AVERAGE DEPTH	4.54	FT
PROPOSED VOLUME	17,170	CF

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D + A PROJECT No. C24-052-00

Notes

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STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo
2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

Title
GRADING PLAN

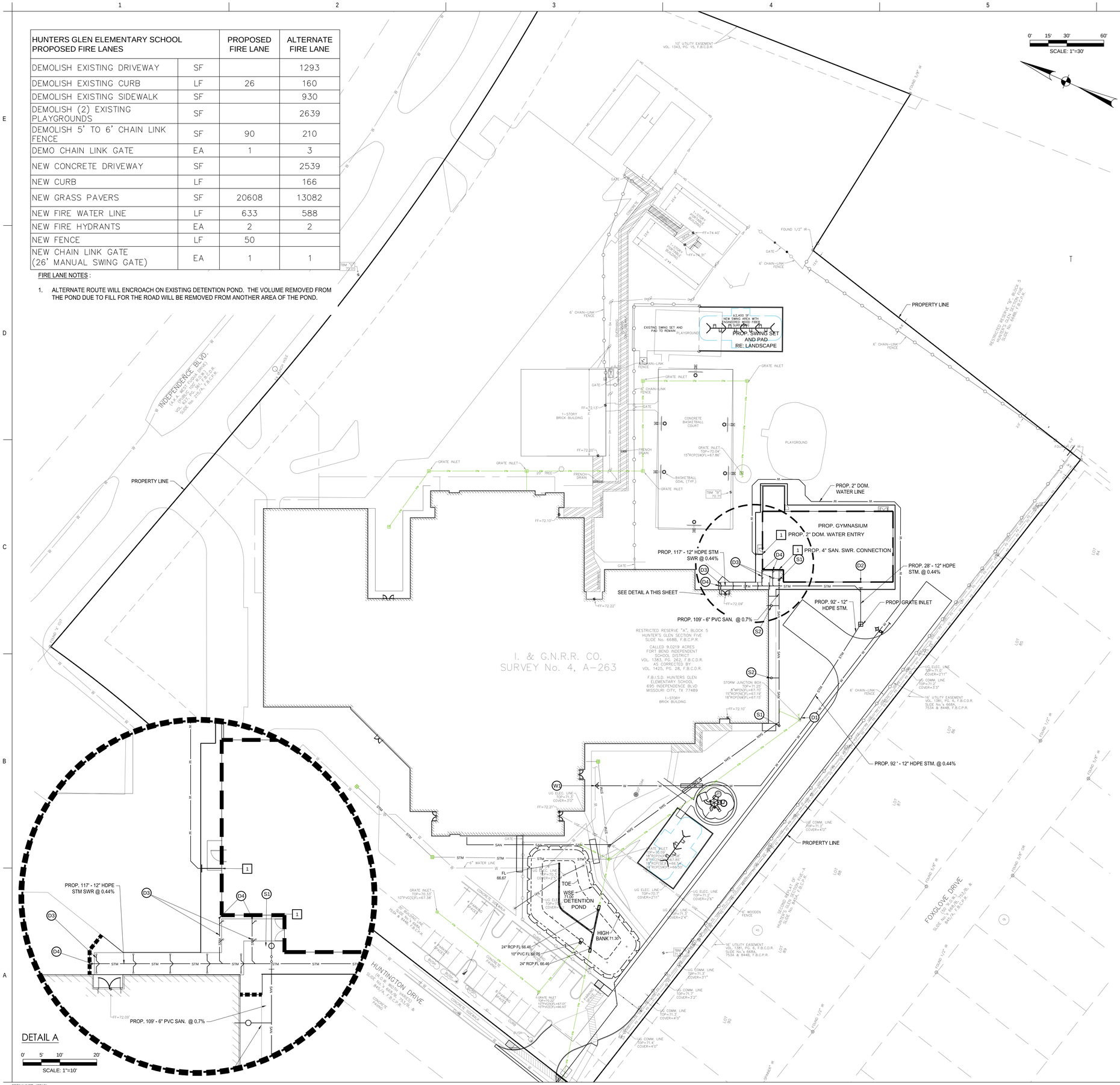
Project No. C24-052-00
Scale
Revision
Drawing No.

C300 - HGES

HUNTERS GLEN ELEMENTARY SCHOOL PROPOSED FIRE LANES		PROPOSED FIRE LANE	ALTERNATE FIRE LANE
DEMOLISH EXISTING DRIVEWAY	SF		1293
DEMOLISH EXISTING CURB	LF	26	160
DEMOLISH EXISTING SIDEWALK	SF		930
DEMOLISH (2) EXISTING PLAYGROUNDS	SF		2639
DEMOLISH 5' TO 6' CHAIN LINK FENCE	SF	90	210
DEMO CHAIN LINK GATE	EA	1	3
NEW CONCRETE DRIVEWAY	SF		2539
NEW CURB	LF		166
NEW GRASS PAVERS	SF	20608	13082
NEW FIRE WATER LINE	LF	633	588
NEW FIRE HYDRANTS	EA	2	2
NEW FENCE	LF	50	
NEW CHAIN LINK GATE (26' MANUAL SWING GATE)	EA	1	1

FIRE LANE NOTES :

1. ALTERNATE ROUTE WILL ENCROACH ON EXISTING DETENTION POND. THE VOLUME REMOVED FROM THE POND DUE TO FILL FOR THE ROAD WILL BE REMOVED FROM ANOTHER AREA OF THE POND.



LEGEND

PROPOSED BUILDING LIMITS

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
13. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.
14. DOMESTIC WATER LINES LESS THAN 4" IN DIAMETER SHALL BE SCH 40 PVC AND HAVE A MINIMUM COVER OF 2 FEET. DOMESTIC WATER LINES 4" DIAMETER AND LARGER SHALL BE AWWA C-900 DR 18 PVC AND HAVE A MINIMUM COVER OF 4 FEET.
15. FIRE WATER SERVICE SHALL BE C-900 SELF-EXTINGUISHING PVC PIPE THAT BEARS UNDERWRITERS' LABORATORIES MARK OF APPROVAL AND IS ACCEPTABLE WITHOUT PENALTY TO TEXAS STATE FIRE INSURANCE COMMITTEE AND HAVE A MINIMUM COVER OF 4 FEET.
16. SANITARY SEWER PIPE SIZES 6 INCHES AND SMALLER SHALL BE PVC SCHEDULE 40, AND PIPE SIZES 8 INCHES OR LARGER MAY BE SDR 26.
17. ALL STORM AND SANITARY SEWER CLEANOUTS SHALL HAVE TRAFFIC-RATED LIDS. CLEANOUTS LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE 18" DIAMETER X 6" THICK REINFORCED CONCRETE PAD WITH TOP OF PAD MATCHING FINISHED GRADE.

GENERAL UTILITY KEY NOTES:

[1] REFER TO MEP PLANS FOR CONTINUATION.

DRAINAGE KEY NOTES:

(D1) CONNECT PROPOSED STORM SEWER TO EXISTING STORM JUNCTION BOX. SEAL WALL PENETRATIONS USING APPROVED WATER STOP AND NON-SHRINK GROUT. FIELD VERIFY EXISTING LOCATION, SIZE AND FLOWLINE.
(D2) PROPOSED 10" HDPE ROOF DRAIN.
(D3) PROPOSED 6" PVC ROOF DRAIN FROM CANOPY COLUMNS @ 1%, COORDINATE WITH CANOPY MANUFACTURER.
(D4) PROPOSED STORM SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.
(D5) PROPOSED HIGH BANK OF DETENTION POND 71.0
(D6) PROPOSED WATER SURFACE ELEVATION 70.00
(D7) PROPOSED OUTFALL WITH RESTRICTOR IN EXISTING 24" RCP PIPE, FL 66.46
(D8) PROPOSED OUTFALL WITH RESTRICTOR IN EXISTING 24" RCP PIPE, FL 66.46
(D9) PROPOSED OUTFALL WITH RESTRICTOR IN EXISTING 24" RCP PIPE, FL 66.46

WATER KEY NOTES:

(W1) CONNECT PROP. 2" WATER LINE TO EXIST. 6" WATER LINE.

SANITARY SEWER KEY NOTES:

(S1) PROPOSED SANITARY SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.
(S2) CONSTRUCT PROPOSED SANITARY SEWER CLEANOUT OVER EXISTING 6" SANITARY SEWER, MATCH EXISTING FLOWLINE, RIM SET AT EXISTING GRADE. CONNECT PROPOSED 6" SANITARY SERVICE CONNECTION TO EXISTING SANITARY SEWER. SEAL WALL PENETRATIONS USING APPROVED WATER STOP AND GROUT.

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Title
UTILITY PLAN

Project No.	Scale
C24-052-00	
Revision	Drawing No.
	C400 - HGES

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LEGEND

- PROPOSED BUILDING LIMITS
- IPB I — INLET PROTECTION BARRIER (STAGE 1)
- IPB II — INLET PROTECTION BARRIER (STAGE 2)
- FF — FILTER FABRIC FENCE
- SC — STABILIZED CONSTRUCTION ACCESS
- CTW — CONCRETE TRUCK WASHOUT
- SILT SOCK

GENERAL CONSTRUCTION NOTES

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
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4. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
6. ALL DISTURBED AREAS SHALL BE SODDED UPON COMPLETION IF NOT TO BE PAVED OR LANDSCAPED.
7. CONTRACTOR SHALL UTILIZE TEMPORARY EROSION CONTROL MAT OR EQUAL DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ENSURING WATER QUALITY CONTROLS MEET TCEQ STANDARDS.

SWPPP CONSTRUCTION NOTES :

1. ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.
2. APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.
3. ALL EROSION CONTROL MEASURES SHALL BE CLEANED AFTER EVERY RAIN.
4. CONTRACTOR SHALL ENTER AND EXIT SITE FROM EXISTING DRIVEWAY.

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ENGINEER
09/24/2025

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Client/Project

FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

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Title

SWPPP

Project No.	Scale
C24-052-00	
Revision	Drawing No.
	C500 - HGES

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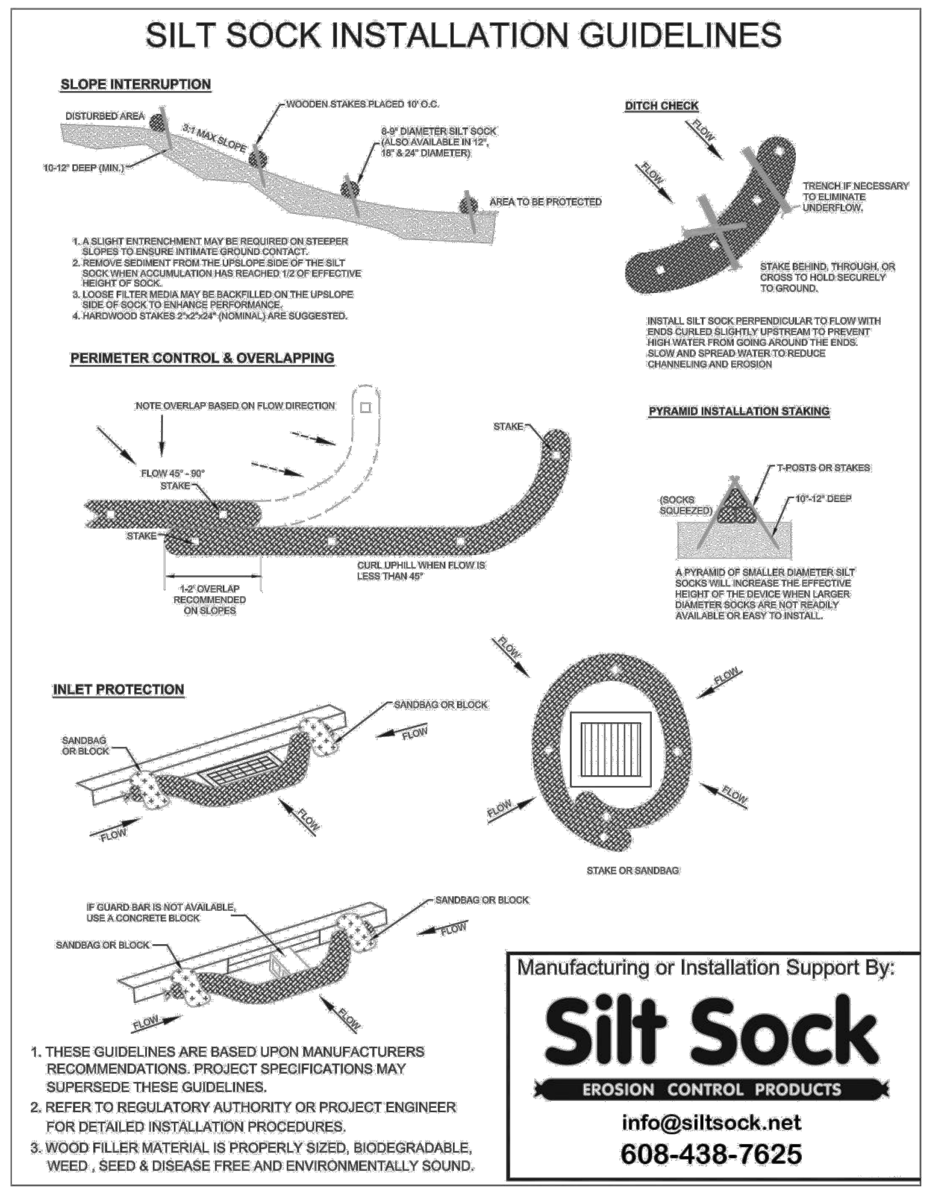
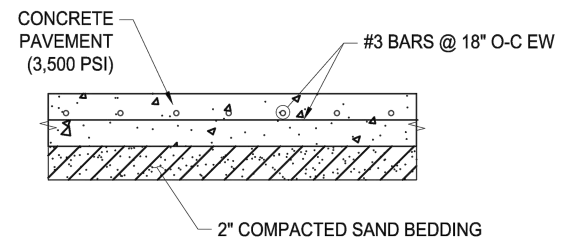


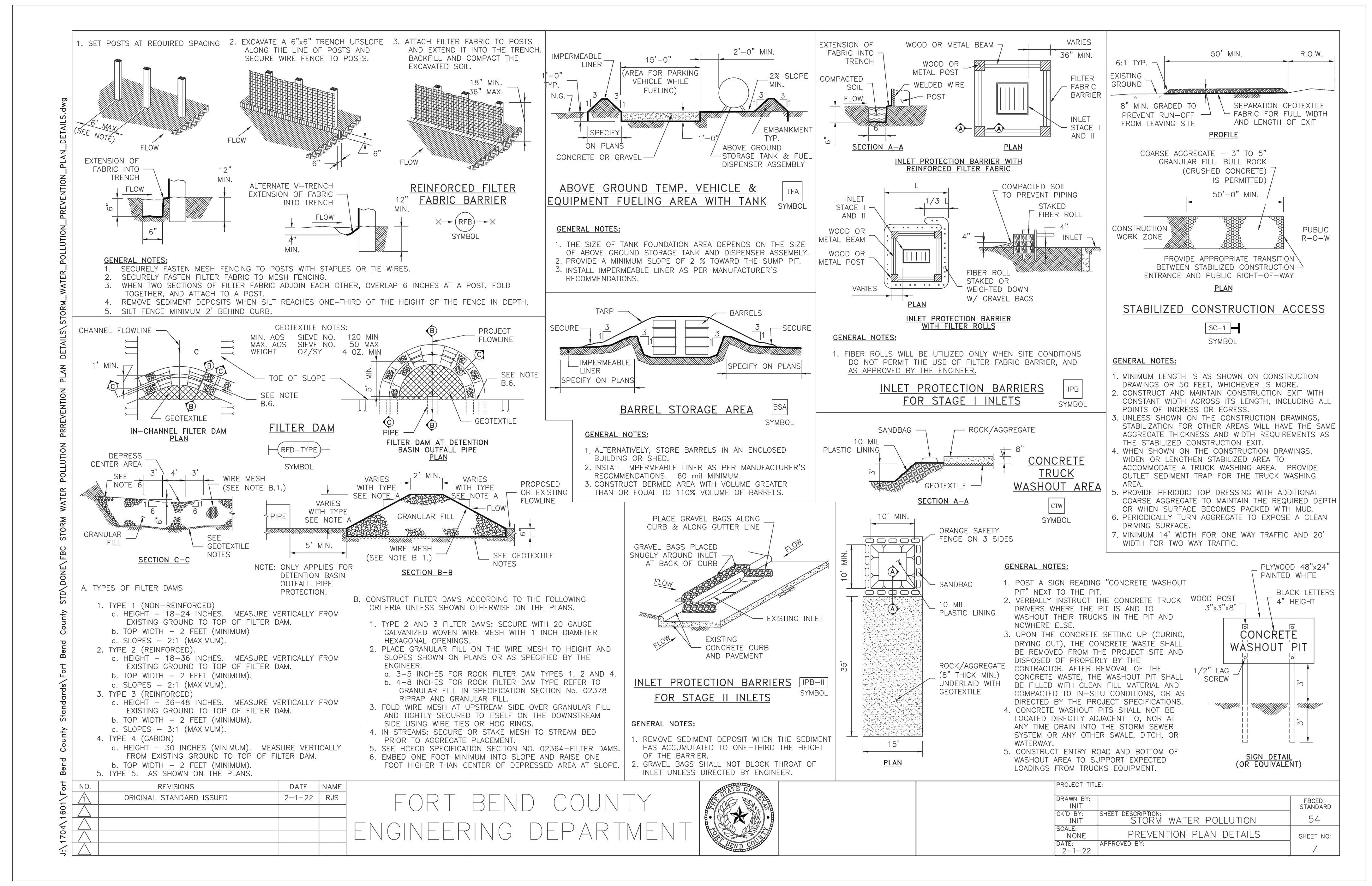


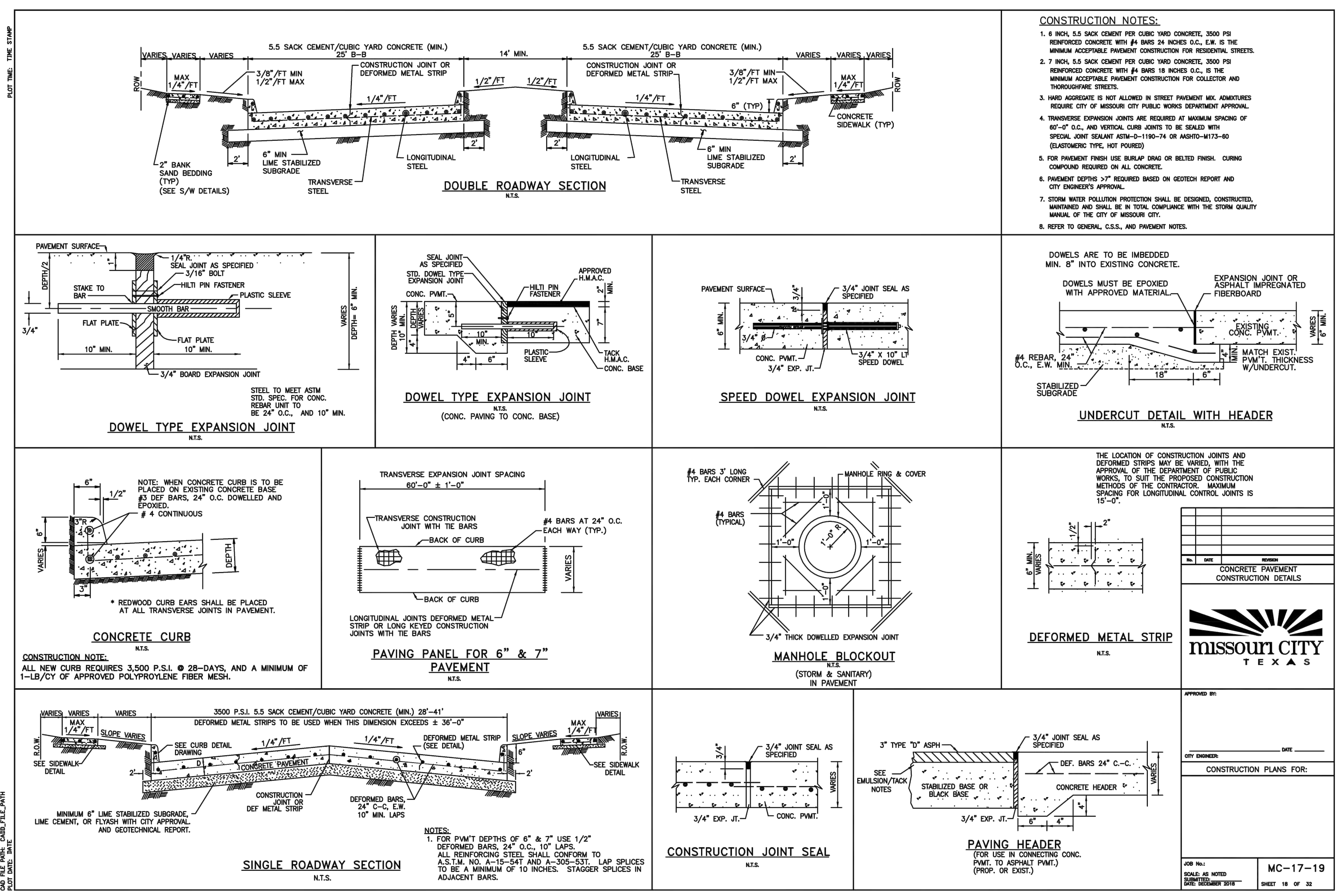
5" CONCRETE SIDEWALK

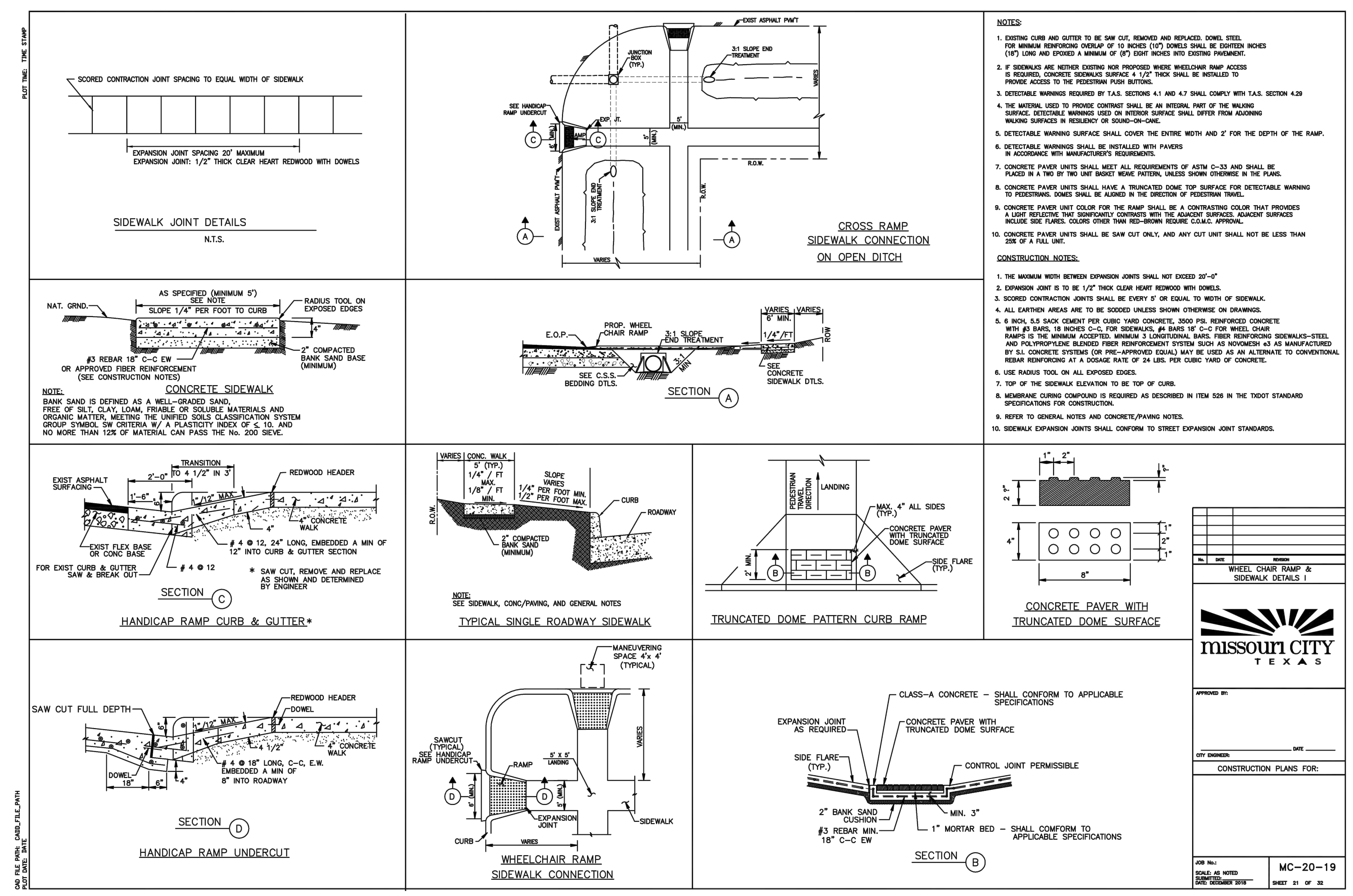
N.T.S.

PAVING NOTES:

1. SEE GEOTECHNICAL INVESTIGATION REPORT NUMBER G103-25A (FINAL REVISION 1) FOR FORT BEND INDEPENDENT SCHOOL DISTRICT, BP022 - GYM RENOVATIONS AND ADDITIONS, HUNTER'S GLEN ELEMENTARY SCHOOL BY AVILES ENGINEERING CORPORATION DATED AUGUST 2025.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS AND A MINIMUM FLEXURAL STRENGTH OF 500 PSI AT 7 DAYS AND 600 PSI AT 28 DAYS.
3. PROVIDE 6" MINIMUM STABILIZED SUBGRADE WITH A MINIMUM OF 7 PERCENT HYDRATED LIME BY DRY SOIL WEIGHT AS PER GEOTECHNICAL REQUIREMENTS. LABRATORY TESTING SHOULD BE PERFORMED TO DETERMINE THE OPTIMUM LIME CONTENT. SUBGRADE SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE PAVED AREA.
4. FIRE LANE PAVING SHALL BE 7" THICK WITH #4 AT 18" ON CENTER EACH WAY.
5. PAVING IN PARKING AREA SHALL MATCH EXISTING THICKNESS, MINIMUM 6" THICK WITH #4 AT 18" ON CENTER EACH WAY







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09/24/2025

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Title

DETAILS (1 OF 2)

Project No. C24-052-00

Scale

Revision

Drawing No.

C600 - HGES

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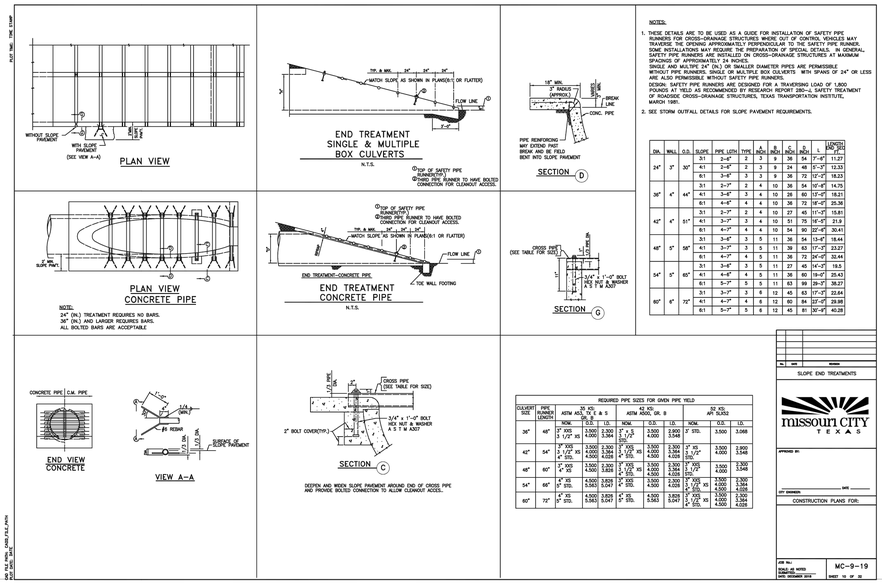


NOTES:

1. THESE DETAILS ARE TO BE USED AS A GUIDE FOR INSTALLATION OF SAFETY PIPE RUNNERS FOR CROSS-DRAINAGE STRUCTURES WHERE OUT OF CONTROL VEHICLES MAY TRAVERSE THE OPENING APPROXIMATELY PERPENDICULAR TO THE SAFETY PIPE RUNNER. SOME INSTALLATIONS MAY REQUIRE THE PREPARATION OF SPECIAL DETAILS. IN GENERAL, THE SAFETY PIPE RUNNER IS RECOMMENDED ON CROSS-DRAINAGE STRUCTURES AT MAXIMUM SPACINGS OF APPROXIMATELY 24 INCHES.
   SINGLE AND MULTIPE 24" (IN.) OR SMALLER DIAMETER PIPES ARE PERMISSIBLE WITHOUT PIPE RUNNERS. SINGLE OR MULTIPLE BOX CULVERTS WITH SPANS OF 24" OR LESS ARE ALSO PERMISSIBLE WITHOUT SAFETY PIPE RUNNERS.
   FOR SINGLE BOX CULVERTS WITH SPANS GREATER THAN 24", TRAVERSING LOAD OF 1,800 POUNDS AT YIELD AS RECOMMENDED BY RESEARCH REPORT 280-1, SAFETY TREATMENT OF ROADSIDE CROSS-DRAINAGE STRUCTURES, TEXAS TRANSPORTATION INSTITUTE, MARCH 1981.
2. SEE STORM OUTFALL DETAILS FOR SLOPE PAVEMENT REQUIREMENTS.

DIA.	WALL	O.D.	SLOPE	PIPE LGTH	TYPE	A INCH	B INCH	C INCH	D INCH	L	LENGTH OF PIPE
24"	3"	30"	3:1	2'-6"	2	3	9	36	54	1'-6"	11.27
			4:1	2'-6"	2	3	9	24	48	1'-3"	12.33
			6:1	3'-6"	3	3	9	36	72	1'-7"	18.23
36"	4"	44"	3:1	2'-7"	2	4	10	36	54	1'-7"	14.75
			4:1	3'-6"	3	4	10	26	60	1'-7"	18.21
			6:1	4'-6"	4	4	10	36	72	1'-7"	25.36
42"	4"	51"	3:1	2'-7"	2	4	10	27	45	1'-7"	15.81
			4:1	3'-7"	3	4	10	51	75	1'-7"	21.9
			6:1	4'-7"	4	4	10	54	90	1'-7"	30.41
48"	5"	58"	3:1	3'-6"	3	5	11	36	54	1'-7"	18.44
			4:1	3'-7"	3	5	11	39	63	1'-7"	23.27
			6:1	4'-7"	4	5	11	26	72	1'-7"	32.44
54"	5"	65"	3:1	3'-6"	3	5	11	27	45	1'-7"	19.5
			4:1	4'-6"	4	5	11	36	60	1'-7"	25.43
			6:1	5'-7"	5	5	11	63	99	1'-7"	38.27
60"	6"	72"	3:1	3'-7"	2	8	12	45	63	1'-7"	22.64
			4:1	4'-7"	4	6	12	60	84	1'-7"	29.98
			6:1	5'-7"	5	6	12	45	81	1'-7"	40.28

REQUIRED PIPE SIZES FOR GIVEN PIPE YIELD

CULVERT SIZE	PIPE THICKNESS	ASTM A53, GR. B & S			ASTM A500, GR. B			API 5L/ISO	
	LENGTH	NOM.	O.D.	I.D.	NOM.	O.D.	I.D.	NOM.	I.D.
36"	48"	3" XXS 3 1/2" XS	3.500 4.000	3.300 3.564	3" x .5 4" STD.	3.500 4.000	2.900 3.548	3" STD.	3.500
42"	54"	3" XXS 3 1/2" XS 4" STD.	3.500 4.000 4.500	3.300 3.564 4.026	3" XS 3 1/2" XS 4" STD.	3.500 4.000 4.500	3.300 3.564 4.026	3" XS 3 1/2" XS 4" STD.	3.500 4.000
48"	60"	3" XS 4" XS	3.500 4.500	3.300 3.826	3" XXS 3 1/2" XS 4" STD.	3.500 4.000 4.500	2.900 3.564 4.026	3" XXS 3 1/2" XS 4" STD.	3.500 4.000
54"	66"	3" XS 4" STD.	3.500 4.500	3.300 4.026	3" XXS 3 1/2" XS 4" STD.	3.500 4.000 4.500	2.900 3.564 4.026	3" XXS 3 1/2" XS 4" STD.	3.500 4.000 4.500
60"	72"	3" XS 4" STD.	3.500 4.500	3.300 4.026	3" XXS 3 1/2" XS 4" STD.	3.500 4.000 4.500	2.900 3.564 4.026	3" XXS 3 1/2" XS 4" STD.	3.500 4.000 4.500

SLOPE END TREATMENTS

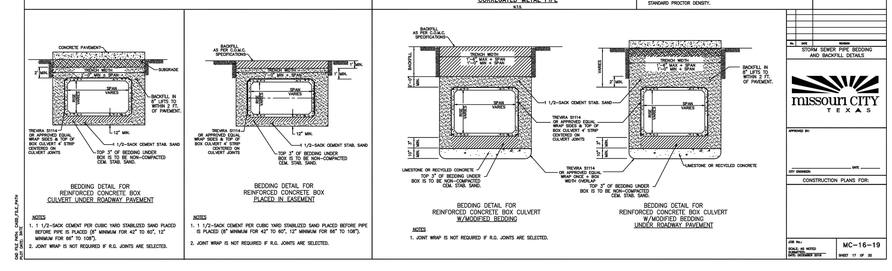
missouri CITY TEXAS

APPROVED BY:

CITY ENGINEER DATE

CONSTRUCTION PLANS FOR:

JOB No.: MC-9-19
SCALE: AS NOTED
DATE: SEPTEMBER 2019
SHEET 10 OF 30



GENERAL NOTES:

1. CONSTRUCTION AND MATERIALS SHALL MEET REQUIREMENTS OF ITEM 472 "INLETS".
2. CONCRETE FOR INLET: MINIMUM 4,000 PSI IN 28 DAYS
3. PRECAST STRUCTURE TO MEET ASTM C913.
4. FRAME AND GRATE SHALL BE EAST JORDAN IRON WORKS (EJIW) V-4885-I (OPEN AREA 473 SQ. IN.) OR APPROVED EQUAL.
5. IF THE ENGINEER OF RECORD SPECIFIES A CAST-IN-PLACE INLET, PRECAST SHALL INCORPORATE A DETAILED DRAWING INTO THE PRECAST SHOP DRAWINGS SHOWING THE CONTRACTOR ELECTS TO CONSTRUCT A CAST-IN-PLACE INLET, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A DETAILED DRAWING, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS.
6. SHOP DRAWINGS SHALL BE REQUIRED FOR PRECAST CONSTRUCTION OF INLET.
7. KNOCK-OUTS ARE NOT PERMISSIBLE FOR PRECAST CONSTRUCTION OF INLET.
8. CEMENT STABILIZED SAND SHALL EXTEND TO THE BOTTOM OF PAVEMENT OR SLOPE PAVING, OR 12 INCHES BELOW THE SURFACE IF INLET IS LOCATED IN AN UNPAVED AREA.

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-22	RJS

FORT BEND COUNTY ENGINEERING DEPARTMENT

PROJECT TITLE:
DRAWING NO. "A"
SHEET DESCRIPTION: TYPE "A" INLET DETAILS
FOR MAXIMUM 30" O.D. PIPE
SCALE: 2"=1'-0"
DATE: 2-1-22
APPROVED BY:
PRECAST STANDARD: 22
SHEET NO.: /

CONCRETE PAVEMENT
FILL C.S.S. TO WITHIN 2 IT OF PAVEMENT
1 1/2-SACK PER TON CEMENT STABILIZED SAND BEDDING
LOOSEN TOP 3" OF BEDDING UNDER MIDDLE 1/3 O.D. OF PIPE.
BEDDING DETAIL FOR CONCRETE CULVERT USED UNDER ROADWAY PAVEMENT
CLASS "A-A"
N.T.S.
BACKFILL PER CITY SPECIFICATIONS
SHAPE CEMENT STABILIZED SAND TO CONFORM TO BOTTOM OF PIPE
BEDDING DETAIL FOR REINFORCED CONCRETE PIPE STORM SEWER
36" DIAMETER & SMALLER
SHAPE CEMENT STABILIZED SAND TO BOTTOM OF PIPE
1 1/2-SACK PER TON CEMENT STABILIZED SAND BEDDING
LOOSEN TOP 3" OF BEDDING UNDER MIDDLE 1/3 O.D. OF PIPE.
NOTES
1. 1 1/2-SACK CEMENT PER TON STABILIZED SAND PLACED BEFORE PIPE IS PLACED (12" MINIMUM FOR 42" TO 60", 14" MINIMUM FOR 66" TO 108")
BEDDING DETAIL FOR REINFORCED CONCRETE PIPE STORM SEWER
42" TO 108" DIAMETER
WHERE SATISFACTORY SOIL CONDITIONS EXIST
SHAPE 1 1/2-SACK CEMENT STABILIZED SAND TO CONFORM TO BOTTOM OF PIPE
#4 REBARS @ 18"C-C (SEE SCHEDULE)
TOP 3" OF BEDDING IS TO NON-COMPACTED C.S.S.
#5 REBARS @ 18"C-C 3,000 PSI, 5-SACK
NOTES
1. 1 1/2-SACK PER TON STABILIZED SAND PLACED BEFORE PIPE IS PLACED (8" MINIMUM FOR 42" TO 60", 12" MINIMUM FOR 66" TO 108").
SEAL SLAB
BEDDING DETAIL FOR REINFORCED CONCRETE PIPE STORM SEWER
42" TO 108" DIAMETER
WHERE UNSATISFACTORY SOIL CONDITIONS EXIST
MODIFIED "A"
N.T.S.
TRENCH
RECTL. FABRIC OVERLAP AT JOINTS
NATURAL GROUND
TREVIRA WRAP
TIMBER BRACING AS REQ'D. TO PREVENT PIPE DEFLECTION DURING CONSTRUCTION
1/2-SACK PER TON CEMENT STABILIZED SAND TAMPED AND MECHANICALLY TO SIDE STD. PROCTOR DENSITY PLACED IN MAX. 8" LIFTS SHALL BE ON SIDES.
TAMP & ROD BEDDING THOROUGHLY UNDER PIPE
USE FOR SEWERS UNDER EXISTING OR FUTURE ROADS, STREETS, GROWAYS OR OTHER PAVT.
MODIFIED "A-A"
N.T.S.
STANDARD BACKFILL
NO BACKFILLING ALLOWED DOWN TO 6" LIKE UNTIL CURING TIME HAS BEEN MET 24 HOURS MINIMUM
BEDDING DETAIL FOR STORM SEWER CORREGATED METAL PIPE
N.T.S.
CONSTRUCTION NOTES
1. CONTRACTOR SHALL CONTACT MISSOURI CITY DEPARTMENT OF PUBLIC WORKS IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARIED BY ORDER OF CITY ENGINEER.
3. LIMESTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 247 FLEXIBLE BASE, TYPE A, GRADE 2 AGGREGATE.
4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS. WHEN WELL POINTING OR IN WET SAND CONDITIONS, MAINTAIN GROUND WATER 1' (FT.) BELOW BOTTOM OF TRENCH FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN PLACE.
5. R.C.P. AND BOX CULVERTS SHALL BE INSTALLED WITH APPROVED GASKETS OR JOINT.
6. MANHOLES SHALL BE PROVIDED WHERE MODIFIED "A" OR MODIFIED "A-A" BEDDING IS USED. STACKS ARE NOT ALLOWED.
7. REFER TO MANHOLE DETAILS, INLETS, STORM SEWER TREATMENT DETAILS, C.S.S., GENERAL NOTES, AND STORM NOTES.
8. SPECIFIC BEDDING MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER FOR MANHOLE ACCESS TO BOX CULVERTS AS REQUIRED.
9. ALL BACKFILL WITHIN THE R.O.W. SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

TYPICAL SEAL SLAB BAR SCHEDULE
(OR AS DIRECTED BY ENGINEER)

SIZE	#4 BARS	#5 BARS
42"	5'-4"	5
48"	6'-0"	6
54"	6'-8"	6
60"	8'-0"	7
66"	8'-4"	8
72"	9'-4"	8
78"	9'-8"	8
84"	10'-0"	9
90"	10'-8"	9
96"	11'-0"	10
102"	12'-0"	10
108"	12'-0"	10

STORM SEWER PIPE BEDDING AND BACKFILL DETAILS

missouri CITY TEXAS

APPROVED BY:

CITY ENGINEER DATE

CONSTRUCTION PLANS FOR:

JOB No.: MC-16-19
SCALE: AS NOTED
DATE: SEPTEMBER 2019
SHEET 17 OF 30

PLAN VIEW
COVER
TOP VIEW
BOTTOM VIEW
COVER
32" DIAMETER
SECTION B
SANITARY SEWER MANHOLE LID
N.T.S.
STANDARD DROP DETAIL
(SEE C.S.S. NOTES)
PIPING CONNECTIONS DETAIL
NOTES:
1. CONTRACTOR SHALL CONTACT CITY OF MISSOURI CITY DEPARTMENT OF PUBLIC WORKS IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED. HIGH WATER TABLE AND/OR UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED.
2. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS SHALL GOVERN.
3. SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF FOUR FEET FROM BACK OF CURB OR CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF ALL OTHER PAVEMENTS, UNLESS OTHERWISE APPROVED BY THE CITY.
   MANHOLES FROM OUTSIDE DIAMETER OF MANHOLE. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY DETAILED ON CITY ENGINEER AND OR DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS.
4. ALL SANITARY SEWER MANHOLE COVERS SHALL BE A MINIMUM OF 32 INCHES IN DIAMETER ALL SLIDE MANHOLE COVERS SHALL HAVE THE CITY OF MISSOURI CITY EMBLEM AND THE WORDS "MISSOURI CITY" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED BY CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS. ALL SANITARY SEWER MANHOLES SHALL BE VENTED AS DIRECTED BY ENGINEER.
5. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE IN UNPAVED AREAS AND TO MATCH PAVEMENT GRADE IN PAVED AREAS. AFTER PAVING, ADJUSTMENTS TO MANHOLE RIM ELEVATIONS SHALL BE ACCOMPLISHED BY THE USE OF THROAT RINGS ONLY (MAX. OF TWELVE INCHES PERMITTED). THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF INTO THE SANITARY SEWER SYSTEM.
6. DROP CONNECTIONS ARE REQUIRED WHEN INVERT ELEVATION OF SEWER LINE TO BE CONNECTED EXCEEDS 24 INCHES DISTANCE ABOVE INVERT ELEVATION OF MANHOLE BENCH. DROP CONNECTIONS SHALL BE CONSTRUCTED OUTSIDE OF MANHOLE WALLS AND SHALL CONFORM TO STANDARDS DETAILED ON CURRENT CITY STANDARD CONSTRUCTION DETAILS. ALL SANITARY SEWER MANHOLES SHALL BE SO CONSTRUCTED AS BE WATERTIGHT AND TO ALLOW UNIFIED INSIDE PIPE WALL ELEVATIONS OF ALL PIPING CONNECTED TO BASE OF MANHOLE UNFORMLY, REGARDLESS OF PIPE DIAMETERS.
7. CONNECTIONS TO EXISTING AND/OR NEW SANITARY SEWER MANHOLES CONSTRUCTED OF PRECAST CONCRETE NOT HAVING PRECORED HOLES OF CORRECT DIAMETER AND LOCATION, SHALL BE PERFORMED BY CORE DRILLING OR BREAKING OUT A SECTION OF MANHOLE WALL AND INSTALLING A NEW SECTION. ALL PRECAST CONCRETE MANHOLES, PIPE SEGMENTS OR OTHER PRECAST STRUCTURES SHALL BE SET ON STAYED, PIPE SHALL BE PLACED IN THE CORED HOLE AND SECURED WITH NON-SHRINK GROUT. GROUTED SMOOTH AND THE INTERIOR LINING SHALL BE REPAIRED.
8. BEDDING AND BACKFILL OF SANITARY SEWER PIPING AND MANHOLES SHALL BE IN ACCORDANCE WITH ITEM 404 CEMENT STABILIZED BACKFILL AS SPECIFICATIONS, STANDARDS, A 1.5 SACK PER TON MIX IS REQUIRED FOR ALL CEMENT STABILIZED SAND BEDDING AND SUCH BEDDING SHALL BE INSTALLED IN LIFTS OF EIGHT INCHES MAXIMUM.
9. SOLVENT WELDED JOINTS ARE NOT AN ACCEPTABLE JOINING METHOD FOR SANITARY SEWERS CONSTRUCTED OF PVC PIPING MATERIALS AND LOCATED WITHIN RIGHTS-OF-WAY OR EASEMENTS. RUBBER GASKETED BELL AND SPIGOT SANITARY SEWER JOINTS ARE MANDATORY. BELL (FEMALE) ENDS OF PIPE SHALL BE INSTALLED IN THE DIRECTION OF FLOW UNLESS OTHERWISE DIRECTED.
10. SANITARY SEWER SERVICE LEADS SHALL BE EXTENDED TO RIGHTS-OF-WAY AND/OR EASEMENT LINES AS APPLICABLE AND CAPPED/PLUGGED FOR FUTURE CONNECTIONS. SERVICE LEADS ARE TO BE INSTALLED SO AS TO PASS UNDER POTABLE WATER PIPING AT CROSSINGS WHERE POSSIBLE.
11. ALL SANITARY SEWER MANHOLES SHALL HAVE A BENCH, DRAUGHT OUTLET AND STUB SHALL BE MARKED WITH A 4" PVC AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET ABOVE THE TOP OF THE MANHOLE OR TO A POINT NOT LESS THAN SEVEN FEET BELOW FINISHED GRADE, WHICHEVER SHALL BE THE SHALLOWER. LABELED "SANITARY SEWER STUB", "SANITARY SEWER WYE" OR SANITARY SEWER STACK" AS APPROPRIATE WITH STUB, WYE BRANCH OUTLET OR STACK NOTED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, TILL GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY FACILITIES AND ROADWAYS ARE PERMITTED. FIRE AND ADJACENT TO SANITARY SEWER MANHOLES AND THAT SUCH CONVENIENCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS DURING THE COURSE OF CONSTRUCTION. ALL SILT AND DEBRIS SHALL BE REMOVED FROM FILL LOW SPOTS AND GRADE ALL SOUTH-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH PROPER DRAINAGE.
13. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY PERSONNEL PRIOR TO BACKFILLING TO ENSURE COMPLIANCE WITH APPROVED STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY NOTIFY THE CITY OF ALL CONSTRUCTION ACTIVITIES AND TO CONFORM TO CITY OF MISSOURI CITY PUBLIC WORKS DEPARTMENT INSPECTION POLICY.
14. PLUGGED IN PLACE MANHOLES REQUIRE THE SPECIFIC APPROVAL OF CITY OF MISSOURI CITY PUBLIC WORKS.
15. C.S.S. 1" ABOVE PIPE AND 6" BELOW PIPE MINIMUM.
16. SEE GENERAL NOTES AND C.S.S. NOTES.

SANITARY SEWER CONSTRUCTION DETAILS

missouri CITY TEXAS

APPROVED BY:

CITY ENGINEER DATE

CONSTRUCTION PLANS FOR:

JOB No.: MC-10-19
SCALE: AS NOTED
DATE: SEPTEMBER 2019
SHEET 11 OF 30

CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT MISSOURI CITY DEPARTMENT OF PUBLIC WORKS IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARIED BY ORDER OF CITY ENGINEER.
3. LIMESTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 247 FLEXIBLE BASE, TYPE A, GRADE 2 AGGREGATE.
4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS. WHEN WELL POINTING OR IN WET SAND CONDITIONS, MAINTAIN GROUND WATER 1' (FT) BELOW BOTTOM OF TRENCH FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN PLACE.
5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
6. SANITARY SEWER BEDDING FOR WET SAND CONDITIONS SHALL BE AS PER MODIFIED "A" OR "A-A".
7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
8. REFER TO MANHOLE DETAILS, SANITARY, C.S.S., GENERAL, WATER CROSSING, WATER DISTRIBUTION DETAILS AND NOTES.

WATER LINE, SANITARY SEWER FORCE MAIN BEDDING DETAILS

missouri CITY TEXAS

APPROVED BY:

CITY ENGINEER DATE

CONSTRUCTION PLANS FOR:

JOB No.: MC-15-19
SCALE: AS NOTED
DATE: SEPTEMBER 2019
SHEET 16 OF 30

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Houston, Texas 77042 | 713 337 8851
TEXAS REGISTERED ENGINEERING FIRM F-3429
D + A PROJECT No. C24-052-00

Notes

No.	Revision	By	Appd	YYYY.MM.DD

1	100% ISSUE FOR BID AND PERMIT			2025.09.24
No.	Issued	By	Appd	YYYY.MM.DD

File Name: N/A

KB	MN	KB	2025.09.24
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

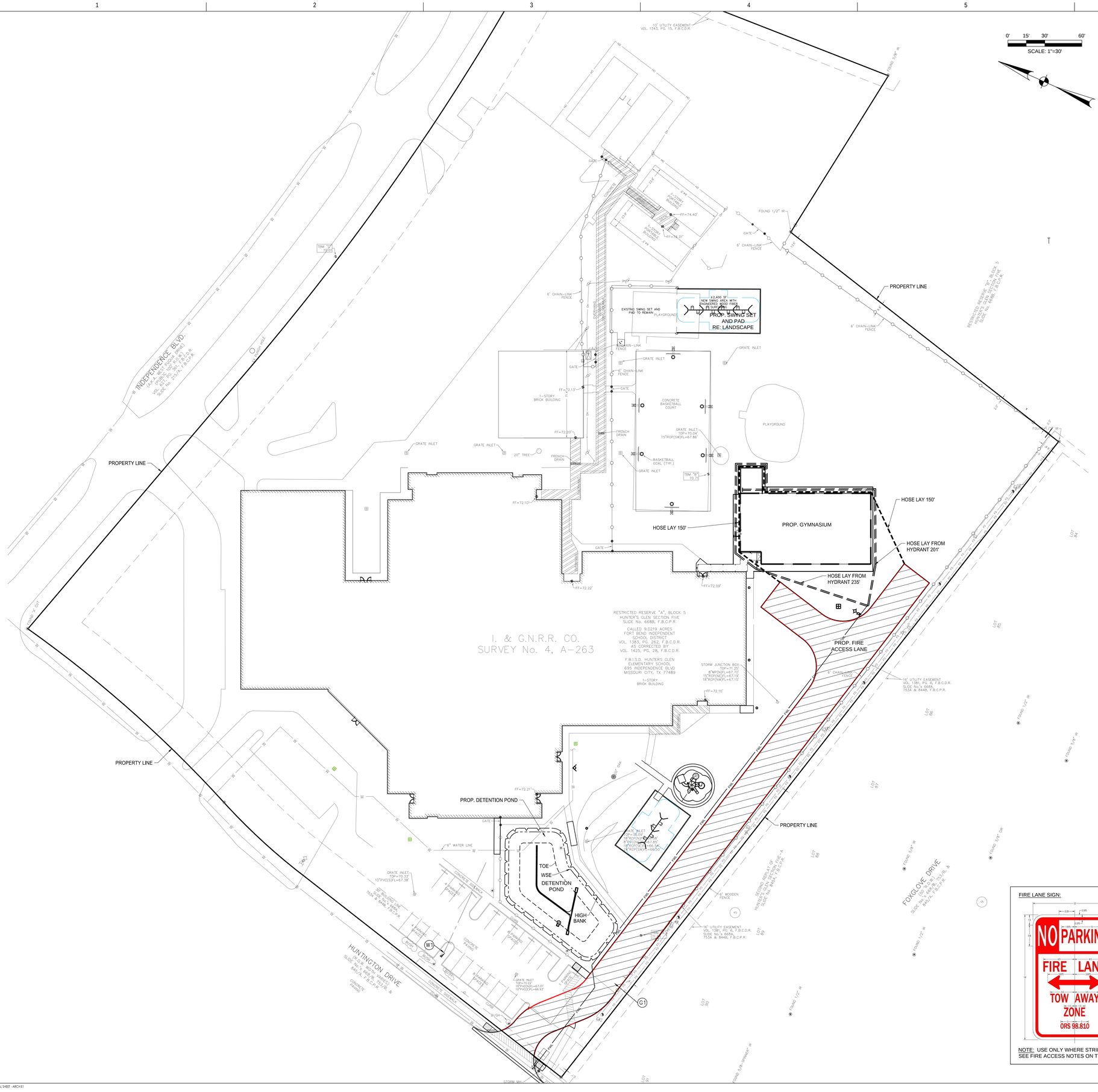
Title
DETAILS (2 OF 2)

Project No.
C24-052-00

Scale

Revision

Drawing No.
C700 - HGES



GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
13. FIRE WATER SERVICE SHALL BE C-900 SELF-EXTINGUISHING PVC PIPE THAT BEARS UNDERWRITERS' LABORATORIES MARK OF APPROVAL AND IS ACCEPTABLE WITHOUT PENALTY TO TEXAS STATE FIRE INSURANCE COMMITTEE AND HAVE A MINIMUM COVER OF 4 FEET.

WATER KEY NOTES:

(W1) CONNECT PROPOSED 6" FIRE WATER LINE TO EXISTING FIRE WATER LINE. SEAL WALL PENETRATIONS USING APPROVED WATER STOP AND NON-SHRINK GROUT.

GENERAL KEY NOTES:

(G1) PROPOSED MANUAL CHAIN LINK GATE. PROVIDE KNOX BOX FOR FIRE ACCESS.

FIRE ACCESS NOTES:

1. POSTING OF FIRE LANES IS REQUIRED. FIRELANE SHALL BE INDICATED WITH PAINTED 6" RED STRIPES ON BOTH SIDES OF THE LANE WITH "FIRE LANE - NO PARKING - TOW AWAY ZONE" WRITTEN WITH 4" LETTERS IN WHITE PAINT SPACED EVERY 50 FEET. SEE DETAIL ON THIS SHEET.
2. FIRE LANE SIGNS SHOULD BE PLACED EVERY 75 FEET ALONG ANY FIRE LANE WHERE PAVEMENT OR CURB STRIPING IS NOT PIRATICAL. SEE DETAIL ON THIS SHEET.
3. PROVIDE KNOX BOX AT MANUAL GATES PER MISSOURI CITY FIRE MARSHAL REQUIREMENTS.

FIRE LANE SIGN:

NOTES:
1. AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGNS SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
2. THE MAXIMUM SPACING OF THE SIGNS SHALL BE 75', CONTINGENT UPON TRAFFIC ENGINEERING'S REVIEW AND APPROVAL.
3. THE SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAT 30° NOR MORE THAN 45° WITH THE CURB OR LINE OF TRAFFIC FLOW.
4. THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR SIGN POLE.
5. THE SIGN PLATE SHALL BE A MINIMUM OF 12" x 18" WITH A THICKNESS OF 0.80".

NOTE: USE ONLY WHERE STRIPING IS NOT PRACTICAL. SEE FIRE ACCESS NOTES ON THIS PAGE.

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TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

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File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KB	MN	KB	2025.09.24

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD., MISSOURI CITY, TX 77489

Title
FIRE LANE PLAN

Project No.	Scale
C24-052-00	
Revision	Drawing No.

C800 - HGES

P:\00 - PROJECTS\DATA\2024\C24-052-00 FBISD BP\02 CIVIL\HGES BP\02 CIVIL\HGES_FIRE LANE.DWG 9/22/2025 5:55 PM

ORIGINAL SHEET - ARCH E1

EX. CHAIN-LINK FENCE TO BE RELOCATED

EXISTING SWING SET AND PAD TO REMAIN

REMOVE EXISTING EDGING ON THIS SIDE FOR CONNECTION WITH NEW SWING PLAY AREA

EXISTING PLAYGROUND TO REMAIN

±1,092 SF EXISTING SWING AREA TO BE REMOVED

EX. ADA RAMP TO BE REMOVED

±870 SF EXISTING PLAYGROUND TO BE REMOVED

EX. ADA RAMP TO BE REMOVED

EX. FENCE TO BE REMOVED

±1,786 SF EXISTING SWING AREA TO BE REMOVED

ORIGINAL SHEET - ARCH E1

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Notes

NORTH

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd.	09/22/25 YYYY.MM.DD

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT ELIZABETH AUSTIN MAY 26962 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77485

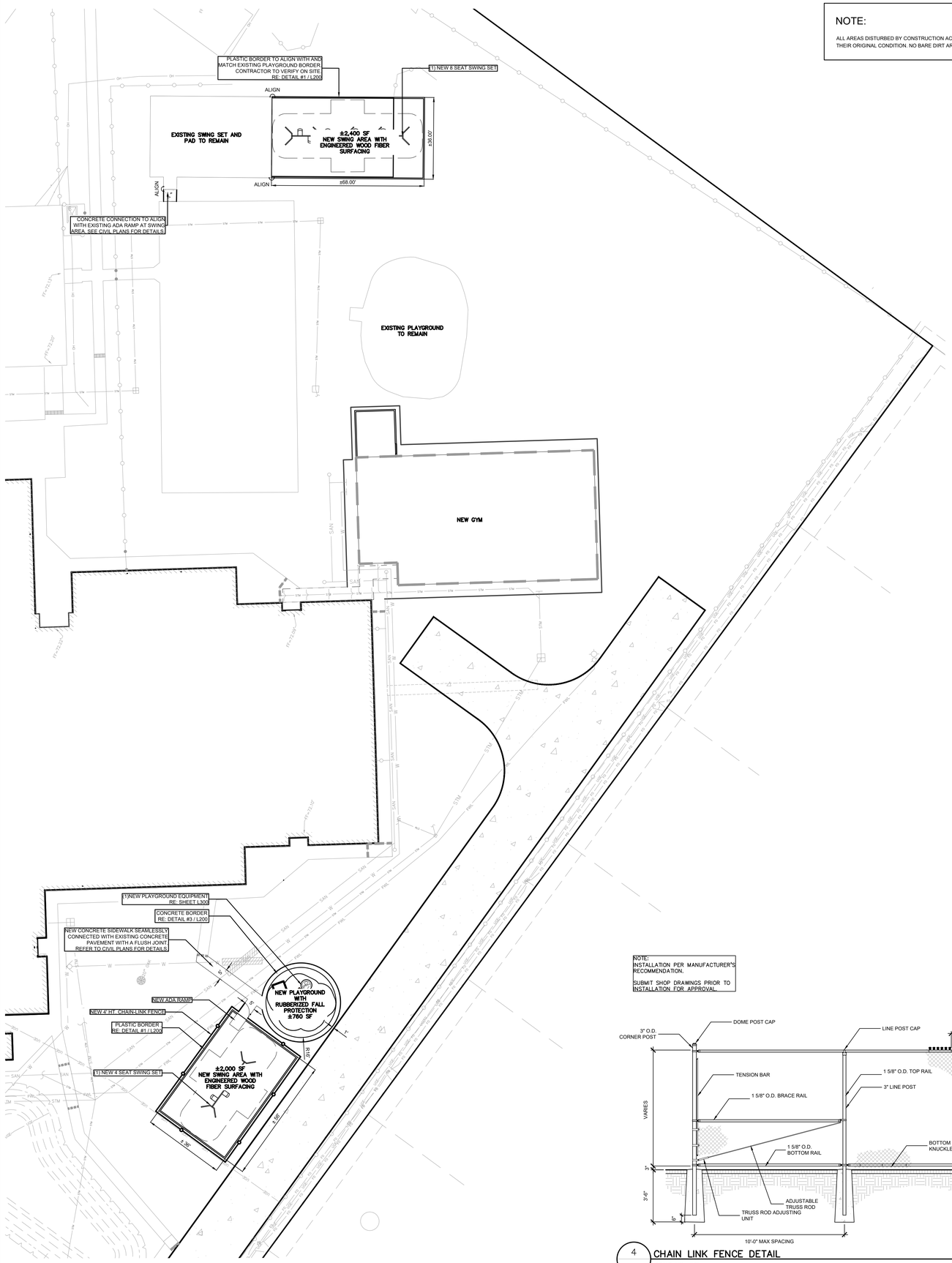
Title
DEMOLITION PLAN

Project No.
214001246

Scale
1" = 20'-0"

Revision
Sheet
1 of 3

Drawing No.
L100-HGES



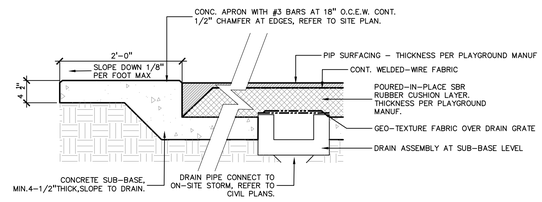
NOTE:

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE HYDROSEEDED AND RETURNED TO THEIR ORIGINAL CONDITION. NO BARE DIRT AREAS WILL BE ACCEPTED.

PLAYGROUND LEGEND

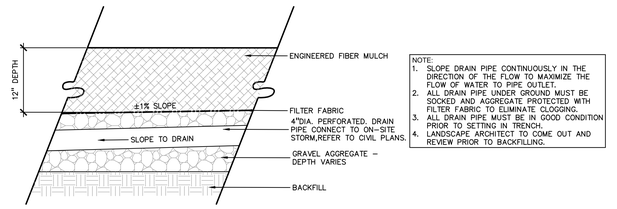
NOTE: MUST MEET FBISD TDG AND TAS MINIMUM ACCESSIBLE ELEMENTS REQUIREMENTS.

PRODUCT	COMPONENT	ESTIMATED QUANTITY	DESCRIPTION
(1) 8 SEATS SWING SET	BELT SEAT	8	
	INCLUSIVE SEAT	2	
(1) 4 SEATS SWING SET	BELT SEAT	4	
	INCLUSIVE SEAT	1	
12" DEPTH ENGINEERED WOOD FIBER SURFACING		±4,800 SF	
12" HT. BLACK PLAYGROUND PLASTIC BORDER		±400 LF	
(1) PLAYGROUND STRUCTURE 2 - 5 YEARS OLD	SPIRAL SLIDE	1	
	FAN CLIMBER	1	
	BOINGO PANEL	1	
	CULVERT CLIMBER	1	
	SLATE WEDGE ROOF	1	
	ELBOW SLIDE	1	
	POST WHEEL PLASTIC	1	
	GEAR PANEL	1	
	TRANSFER STATION	1	
	SAFETY RAIL	1	
	ACTIVITY PANEL W/ A-MAZE-ING INSERT	1	
4' HEIGHT CHAIN-LINK FENCE WITH A 5' WIDE GATE			Galvanized finish
POURED-IN-PLACE SURFACING	INCLUDING: RUBBER PARTICLES (Blend of recycled SBR and EPDM.); BINDER (Weather resistant, UV stabilized polyurethane.); PRIMER / ADHESIVE (Moisture-cured polyurethane primer.); LEVELING AND PATCHING MATERIAL (Portland-cement-based grout or epoxy/polyurethane formulation.).	±900 SF	



3 POURED-IN-PLACE SURFACING DETAIL

SCALE: 1" = 1'-0"

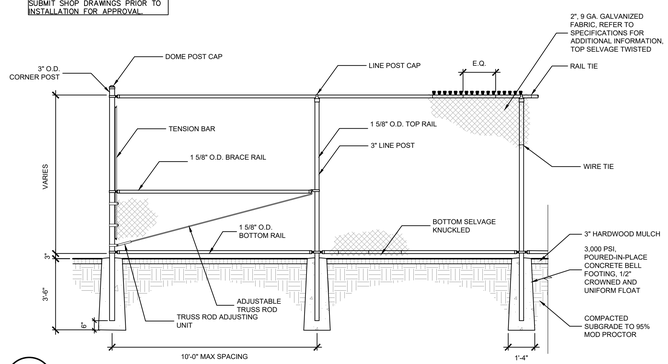


2 SITE DRAINAGE PIPE

SCALE: 1" = 1'-0"

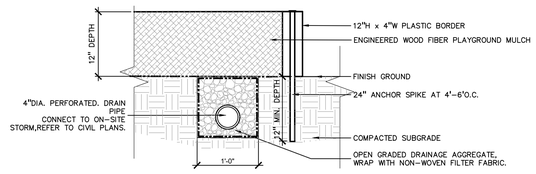
NOTE:
INSTALLATION PER MANUFACTURER'S RECOMMENDATION.

SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION FOR APPROVAL.



4 CHAIN LINK FENCE DETAIL

SCALE: 1/8" = 1'-0"



1 ENGINEERED WOOD FIBER PLAYGROUND SURFACING DETAIL

SCALE: 1" = 1'-0"

ORIGINAL SHEET - ARCH E1

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Notes

NORTH

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd. 09/22/25 YYYY.MM.DD

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT JEFFREY EDWARD ZABREK AUSTIN 2692 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

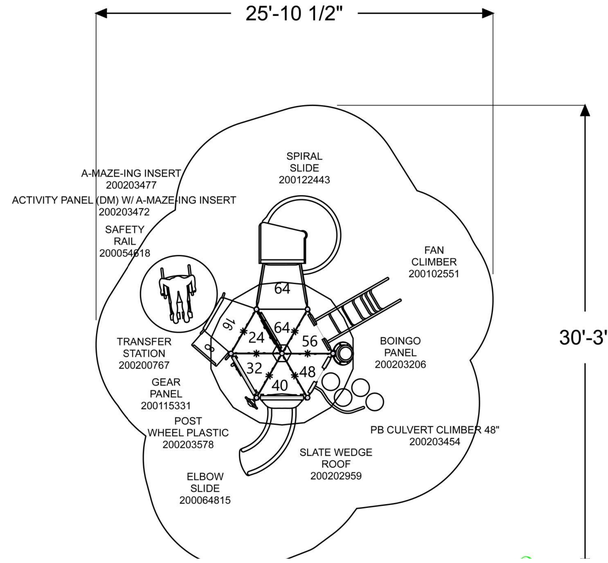
FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77485

Title

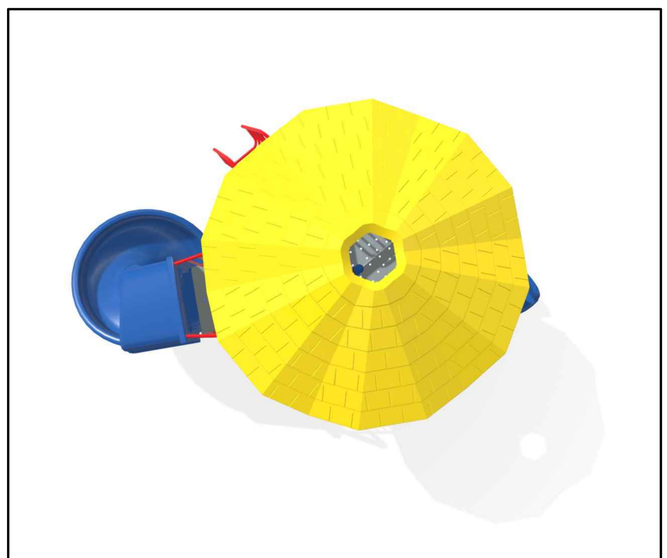
PLAYGROUND PLAN

Project No.	Scale
214001246	1" = 20'-0"
Revision Sheet: 2 of 3	Drawing No. L200-HGES



NOTE:

COLORS TO BE SELECTED BY OWNER. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



1 2-5 YEARS OLD PLAYGROUND STRUCTURE
NOT TO SCALE

ORIGINAL SHEET - ARCH E1

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Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd.	09/22/25 YYYY.MM.DD

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT
KENNETH AUSTIN
2696
STATE OF TEXAS

09/22/25

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

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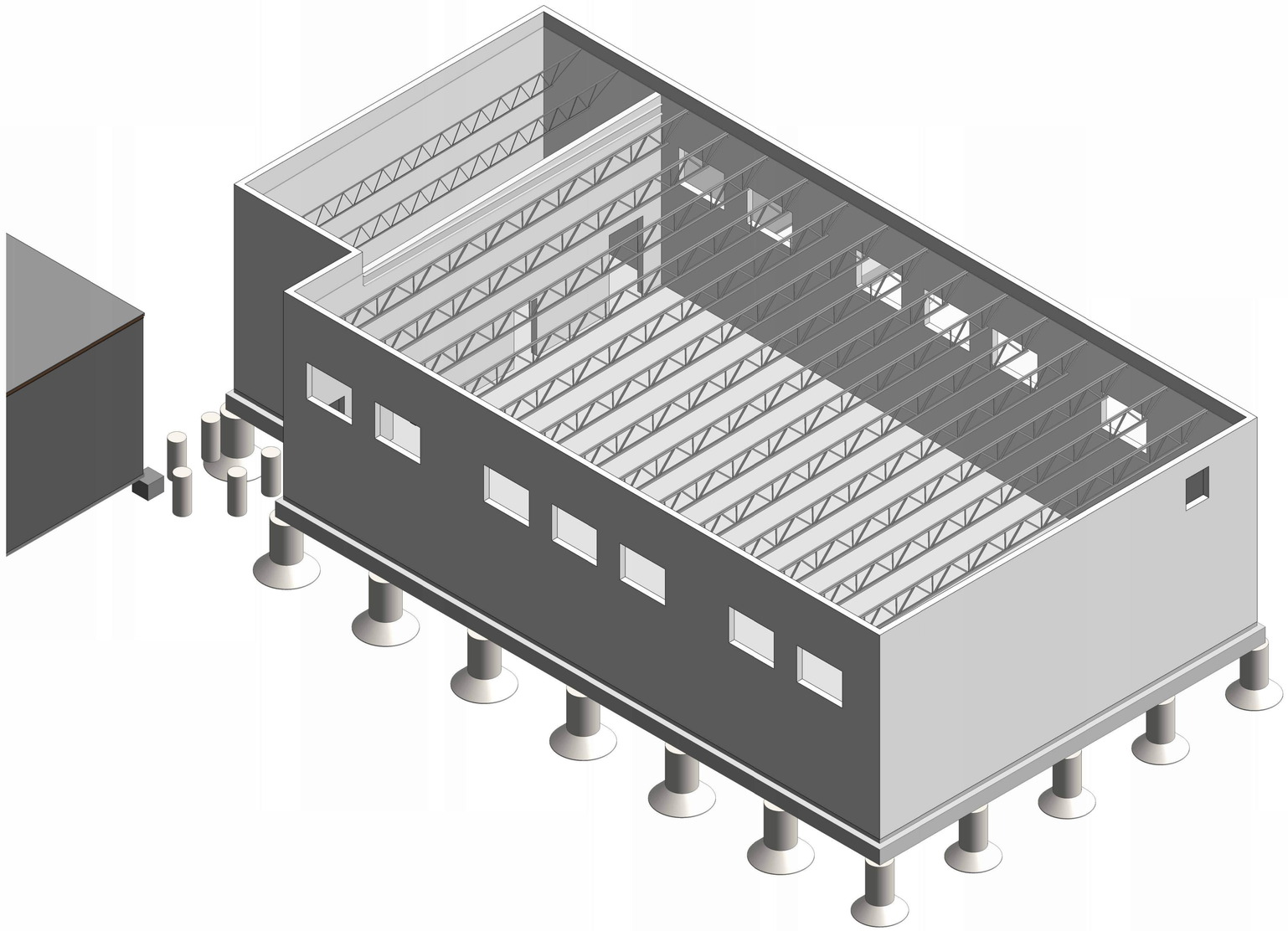
Title
PLAYGROUND ENLARGEMENT

Project No.	Scale
214001246	NOT TO SCALE
Revision Sheet: 3 of 3	Drawing No. L300-HGES

SHEET LIST (WITH REVISIONS)			
SHEET NUMBER	SHEET NAME	DATE	REVISION
S001	3D VIEW AND SHEET LIST		
S101	GENERAL STRUCTURAL CRITERIA		
S102	GENERAL STRUCTURAL CRITERIA		
S201	FOUNDATION PLAN - COMPOSITE		
S201A	FOUNDATION PLAN - GYMNASIUM		
S202	ROOF FRAMING PLAN - COMPOSITE		
S202A	ROOF FRAMING PLAN - GYMNASIUM		
S301	FOUNDATION SCHEDULE & TYPICAL SLAB ON GRADE DETAILS		
S401	TYPICAL GB AND CF DETAILS		
S402	SOG @ STRUCTURAL STEEL (GB / PIER)		
S501	TYPICAL CMU WALL DETAILS		
S601	TYPICAL STEEL & CMU WALL ROOF DETAILS		



1 PRESENTATION 3D VIEW - GYMNASIUM

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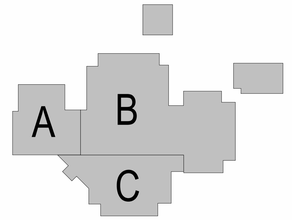
D + A PROJECT 24-291-00

Notes



Revision | By | Appd | YYYY.MM.DD

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Issued | By | Appd | YYYY.MM.DD

File Name: N/A | JT Dwn. | AR Dsgn. | LMM Chkd. | 2024.04.11 YYYY.MM.DD

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

3D VIEW AND SHEET LIST

Project No. 214001246 | Scale

Revision | Drawing No.

S001-HGES

•Pick location in Project Information•
1/22/2025 8:39:29 AM

ORIGINAL SHEET - ARCH E1

STRUCTURAL ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICALS	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
ACI	AMERICAN CONCRETE INSTITUTE	LW	LONG WAY
ADDL	ADDITIONAL	MATL	MATERIAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAX	MAXIMUM
		MC	MOMENT CONNECTION, MISCELLANEOUS CHANNEL
AISI	AMERICAN IRON AND STEEL INSTITUTE	MECH	MECHANICAL
ANSI	AMERICAN NOTIONAL STANDARD INSTITUTE	MANUF	MANUFACTURER(S)
		MID	MIDDLE
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MO	MASONRY OPENING
		NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	NOM	NOMINAL
		NTS	NOT TO SCALE
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
BC	BOTTOM CHORD	OD	OUTSIDE DIAMETER
BOD	BOTTOM OF DECK	OPNG	OPENING
BOT	BOTTOM	OPP	OPPOSITE
BP	BASE PLATE	PL	PLATE
BRG	BEARING	PLF	POUNDS PER LINEAR FOOT
C	CHANNEL, COMPRESSION, CAMBER	PROJ	PROJECTION
CIP	CAST IN PLACE	PSI	POUNDS PER SQUARE INCH
CL	CENTER LINE	PSF	POUNDS PER SQUARE FOOT
CLR	CLEAR	R	RADIUS
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	RE	REFER, REFERENCE
CONT	CONTINUOUS	REINF	REINFORCEMENT (D), (ING), (MENT)
CSJ	CONSTRUCTION JOINT	REQD	REQUIRED
CTJ	CONTROL JOINT	REV	REVISION
DET	DETAIL	RO	ROUGH OPENING
DIA	DIAMETER	SCHED	SCHEDULE(D)
DIAG	DIAGONAL	SDI	STEEL DECK INSTITUTE
DP	DOUBLE PITCHED	SECT	SECTION
DWG	DRAWING	SF	SQUARE FEET
DWL	DOWEL	SIM	SIMILAR
EA	EACH	SJI	STEEL JOIST INSTITUTE
EF	EACH FACE	SPEC	SPECIFICATION(S)
EJ	EXPANSION JOINT	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STIF	STIFFINER
ELEV	ELEVATOR	STL	STEEL
EOD	EDGE OF DECK	STR	STRUCTURAL
EOS	EDGE OF SLAB	T	TOP, TENSION
EQ	EQUAL(LY)	T&B	TOP AND BOTTOM
EXIST	EXISTING	T&G	TONGUE AND GROOVE
EXP	EXPANSION	TEMP	TEMPERATURE
FD	FLOOR DRAIN	THK	THICK(NESS)
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF CONCRETE
FND	FOUNDATION	TOF	TOP OF FOOTING
FS	FAR SIDE	TOJ	TOP OF JOIST
FT	FEET, FOOT	TOL	TOP OF LEDGE
FTG	FOOTING	TOP	TOP OF PANEL
GA	GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GB	GRADE BEAM	TRD(S)	TREAD(S)
HORIZ	HORIZONTAL	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION	UL	UNDERWRITERS LABORATORY
ID	INSIDE DIAMETER	UNF	UNIFORM
IN	INCHES	UON	UNLESS OTHERWISE NOTED
JST	JOIST	V	BEAM AND SHEAR
JT	JOINT	VB	VERTICAL BRACE
K	KIPS, JOIST SERIES	VERT	VERTICAL
KB	KNEE BRACE	W	WALL, EST, WIDTH, WIDE FLANGE
L	SPAN, LEFT, STEEL ANGLE	W/	WITH
Ld	DEVELOPMENT LENGTH	WL	WIND LOAD, WATER LEVEL, WORKING LINE
LL	LIVE LOAD		
LLBB	LONG LEG BACK TO BACK	WP	WATER PROOF, WORKING POINT

STRUCTURAL LEGEND

P1	PRECAST CONCRETE PANEL MARK	S1	SPAN DIRECTION OF A MILD REINFORCED CONCRETE SLAB W/ MAIN REINFORCING MARK S1
F1	SPREAD FOOTING MARK	DECK TYPE 1	SPAN OF 5 1/2" THICK CONCRETE SLAB W/ TYPE 1 STEEL DECK
P1	PLINTH MARK	DECK TYPE 1	SPAN DIRECTION OF BARE STEEL DECK TYPE 2 WITH NO CONCRETE TOPPING
C1	COLUMN MARK	20KSP	SPECIAL OPEN WEB K SERIES STEEL JOIST, SEE PLAN NOTES FOR LOAD REQUIREMENTS
CF1	CONTINUOUS FOOTING MARK	W27X84 <24'-0">	STANDARD AISC ROLLED SHAPE OF W27X84 AT ELEVATION 24'-0" ABOVE DATUM
RW1	RETAINING WALL MARK	W27X84 c=1"	STANDARD AISC ROLLED SHAPE OF W27X84 WITH A 1" UPWARD CAMBER
BP1	BASE PLATE MARK	W27X84 (10)	STANDARD AISC ROLLED SHAPE OF W27X84 W/ 10 HSA (EQUALLY SPACED)
A	STRUCTURAL STEEL COLUMN SPLICE TYPE MARK	W27X84 (10, 6, 12) WBEAM WBEAM	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 28 HSA EQUALLY SPACED FROM BOTTOM TO TOP AS 10 CONNECTORS / 6 CONNECTORS / 12 CONNECTORS
24/24	STRAIGHT SHAFT PIER (SHAFT Ø)		
24/48	DRILLED PIER (SHAFT AND BELL Ø)	BEAM	CONNECTED TO A ROLLED SHAPE COLUMN WITH A STANDARD WELDED MOMENT CONNECTION STANDARD AISC ROLLED SHOPE BEAM
B1 GB1 1B1	MILD REINFORCED CONCRETE BEAM MARK		
J1	MILD REINFORCED CONCRETE JOIST MARK	6"	SLAB DEPRESSION AND AMOUNT

STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:
1. THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:
1. INTERNATIONAL BUILDING CODE, 2021 EDITION.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-22 , AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACE), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 15TH EDITION (ASD), 2005, AS AMENDED.
5. AMERICAN WELDING SOCIETY (AWS).
6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS.
7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:
1. SUPER-IMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF)

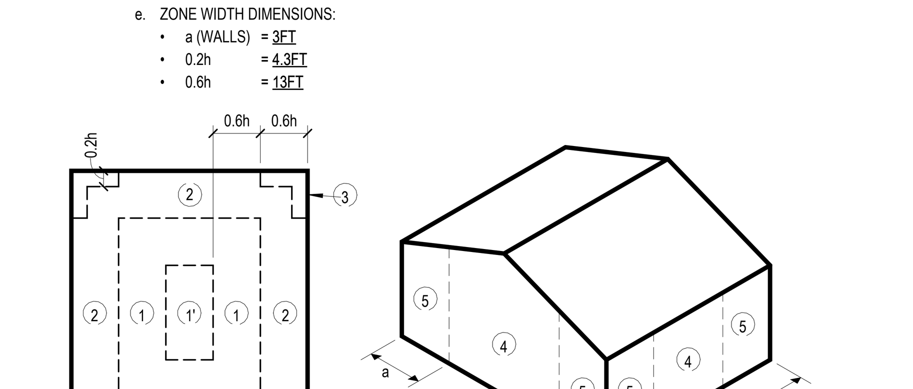
BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
SLAB ON GRADE	0	100
ROOF	20	20
MECHANICAL AREAS	10	150 (**)

* INCLUDES ALL ALLOWANCES OF 15 PSF FOR PARTITION WEIGHT
** EQUIPMENT WEIGHT IF LARGER

D. LATERAL DESIGN LOADS (CLOSED STRUCTURE):
1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF 142 MPH (ASD WIND SPEED OF 110 MPH), 3-SECOND GUST, WITH EXPOSURE B AND A RISK CATEGORY III.
2. COMPONENTS AND CLADDING PRESSURES (PSF) FOR "CLOSED" BUILDINGS:

		ZONE 1		ZONE 1'		ZONE 2		ZONE 3	
ROOF	10 FT²	+16	-55	+30	-32	+16	-73	+16	-99
	100 FT²	+16	-43	+26	-32	+16	-51	+16	-68
		ZONE 4		ZONE 5					
WALLS	10 FT²	+94	-56	+121	-64				
	100 FT²	+74	-46	+85	-50				
		ZONE 4		ZONE 5					
PARAPETS	10 FT²	+32	-34	+32	-42				
	100 FT²	+27	-30	+27	-33				

a. RE: IBC FOR DESCRIPTION OF CORNER, PERIMETER AND FIELD.
b. POSITIVE PRESSURES ARE PRESSURES ACTING TOWARDS THE BUILDING.
c. NEGATIVE PRESSURES ARE PRESSURES ACTING AWAY FROM THE BUILDING.
d. VALUES ABOVE ARE FOR BASIC DESIGN WIND PRESSURES THE ASD FACTOR 0.6..
e. ZONE WIDTH DIMENSIONS:
- a (WALLS) = 3FT
- 0.2h = 4.3FT
- 0.6h = 13FT



ROOF
WALL

E. SEISMIC CRITERIA:

1. IMPORTANCE FACTOR:	1.25
2. RISK CATEGORY:	III
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss: 0.078, S1: 0.042
4. SITE CLASS:	D
5. SPECTRAL RESPONSE COEFFICIENTS:	SDs: 0.071, SD1: 0.064
6. SEISMIC DESIGN CATEGORY:	A

F. SPECIAL LOADS:
1. STAIR TREADS, RAILING AND GUARDRAILS:

ITEM	REQUIRED CAPACITY
TREADS	300 POUNDS AT CENTER
TOP RAILS	50 PLF HORIZONTALLY (DISTRIBUTED)
OTHER RAILS, FILLERS & CONNECTIONS	50 PLF HORIZONTALLY (DISTRIBUTED)
HAND RAILS	200 POUNDS ANY DIRECTION

2. PIPE LOADS WITH WATER

SIZE	WEIGHT MAX	SPACING OF HANGERS
4" Ø	17 PLF	10'-0"
6" Ø	32 PLF	10'-0"
8" Ø	50 PLF	10'-0"
10" Ø	75 PLF	5'-0"
12" Ø	102 PLF	5'-0"
VALUES ASSUME SCHEDULE 40 STEEL PIPE		

G. ROOF RAIN LOAD DATA:
1. RAIN INTENSITY 60 MIN, i = 5.36 IN/HR

H. GROUND SNOW LOADS:
1. GROUND SNOW: 9 PSF

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH (PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SUMP (IN)	W/C RATIO
	3000	3500	4000			
DRILLED PIERS	●			1 1/2"	5-7	0.55
SLAB ON GRADE		●		1"	4-6	0.50
GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.
C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI
D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.
E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
   a. LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.
F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.
G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE H. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.
H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.
   1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.
   2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL".

BAR SIZE GRADE 60	Ld FOR TOP BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)				Ld FOR BOTTOM BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000 / 3500	4000	5000	6000	3000 / 3500	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

J. AT LAP SPLICES, PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld SHOWN IN THE TABLE IN NOTE H ABOVE.
K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.
L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.
   1. UNIFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES
   2. UNIFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES
   3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
      - #6 AND LARGER: 2 INCHES
      - #5 AND SMALLER: 1 1/2 INCHES
   4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
      - SLABS AND WALLS: 3/4 INCH
      - BEAMS AND COLUMNS: 1 1/2 INCHES

GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
B. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
C. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.
D. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.
E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.
F. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.
G. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.
H. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.
I. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
J. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.
K. SHOP DRAWINGS:
   1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.
   2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
   3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
   4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
   5. STRUCTURAL SUBMITTALS REQUIRED FOR APPROVAL INCLUDE, BUT ARE NOT LIMITED TO:
      - CONCRETE ACCESSORIES (MANUFACTURERS PRODUCT DATA)
      - STEEL REINFORCING
      - CONCRETE MIX DESIGN
      - CONTROL JOINT LAYOUT
      - CONCRETE MATERIAL CERTIFICATES
      - STRUCTURAL STEEL FRAMING
      - STRUCTURAL STEEL CONNECTION CALCULATIONS
      - STEEL ROOF DECK
      - COLD FORMED METAL FRAMING
      - COLD FORMED METAL FRAMING CALCULATIONS
      - MISC. STEEL FABRICATIONS
   6. DELEGATED STRUCTURAL DESIGN OF COMPONENTS:
      - SEE APPLICABLE SECTIONS OF GENERAL NOTES FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.
L. THESE NOTES APPLY TO STRUCTURAL DOCUMENTS SEALED BY THE STRUCTURAL ENGINEER AND ARE INTENDED TO BE COMPLEMENTARY TO AND USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, INCLUDING THOSE PREPARED BY OTHER DISCIPLINES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/STRUCTURAL ENGINEER IMMEDIATELY. ANY SUCH DISCREPANCIES SHALL BE RESOLVED TO THE MORE STRINGENT REQUIREMENTS, UNLESS OTHERWISE AUTHORIZED BY THE STRUCTURAL ENGINEER.
M. ANY DISCREPANCIES ON THE STRUCTURAL DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF BIDS OR PROPOSALS, OR IF NOT REASONABLE DISCERNABLE DURING PREPARATION OF BIDS AND PROPOSALS, BEFORE COMMENCING THE WORK IN QUESTIONS. NO FIELD CHANGES OR DIVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER. NO CHANGE ORDER CONSIDERATION WILL BE GIVEN TO CHANGES FOR WHICH THE ARCHITECT AND/OR ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
N. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION, INCLUDING EXISTING WORK, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORT IMMEDIATELY TO THE ARCHITECT/STRUCTURAL ENGINEER.
O. GENERAL FRAMING NOTES:
   1. FOR ALL MISCELLANEOUS STEEL SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME THE FOLLOWING AS A MINIMUM AND CONFIRM FINAL ASSUMPTIONS WITH STRUCTURAL ENGINEER:
      - EQUAL LEG ANGLES = L4X4X5/16
      - LLV ANGLES = L6X4X5/16
      - CHANNELS = C8X11.5
      - HSS TUBES =HSS6X6X3/8
      - LSV TUBE = HSS12X8X1/2
      - ROUND TUBE = 6" STD PIPE
      - WIDE FLANGE = W14X22
      - STEEL PLATE = 3/8" THICK
   2. FOR ALL MECHANICAL OPENINGS SHOWN ON ARCHITECTURAL OR MEP DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE W14X22 PERIMETER BEAMS AS REQUIRED TO FRAME REQUIRED OPENING WHERE OPENING DIMENSIONS EXCEED 5'-0" IN ANY DIRECTION.
   3. FOR ALL WINDOWS, STOREFRONTS AND CURTAINWALLS EXCEEDING 10'-0" IN LENGTH WHERE HANGING STEEL TO SUPPORT THE HEADER IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE C6X8.2 VERTICAL HANGERS WITH L4X4X1/4 KICKERS AT 4'-0" OC AND CONTINUOUS L6X4X5/16 ANGLE ALONG THE BOTTOM. PROVIDE CONTINUOUS HSS6X2X1/4 (LSH) IN LIEU OF L6X4 BOTTOM ANGLE AND GALVANIZE 3/8" BENT LEDGER PLATE WHERE MASONRY WILL BE SUPPORTED.
   4. FOR ALL FOLDING PARTITIONS WHERE HANGING STEEL TO SUPPORT HEADER TRACK IS NOT SHOWN ON STRUCTURAL DRAWINGS PROVIDE C6x8.2 VERTICAL HANGERS WITH L4x4x1/4 KICKERS AT 4'-0" AND CONTINUOUS WT6X20 ALONG THE BOTTOM. HANGERS SHALL BE SPACED AT 2'-0" ON CENTER AT STACKED ENDS OF PARTITION.
   5. FOR ALL COILING OVERHEAD DOORS AND ROLLING GRILLS EXCEEDING 10'-0" IN WIDTH WHERE TUBE STEEL TO SUPPORT THE DOOR/HOUSING IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE HSS12X8X3/8 (LSV) INTERMEDIATE STEEL TUBE.
   6. ALL STAIR MEMBERS INCLUDING, BUT NOT LIMITED TO, STRINGERS, LANDINGS AND HANDRAILS SHALL BE DESIGNED BY THE STAIR ENGINEER AND STEEL FABRICATOR.
P. GENERAL FOUNDATION NOTES:
   1. FOR ALL SLAB ON GRADE SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME 5" THICK CONCRETE SLAB WITH #4 REINFORCING BARS AT 14" OC IN EACH DIRECTION.
   2. MECHANICAL EQUIPMENT AND LOCKERS SHALL RECEIVE A HOUSEKEEPING PAD AS INDICATED IN MEP OR ARCHITECTURAL DRAWINGS AND PER MANUFACTURER'S RECOMMENDATIONS.
   3. THE MAXIMUM GRADE BEAM SPAN IS 20'-0". PROVIDE ADDITIONAL 24/48 PIER AT MID SPAN WHERE PIERS ARE NOT SHOWN ON PLAN AND ALLOWABLE SPAN IS EXCEEDED.
   4. ASSUME GRADE BEAM TYPE "GB1" FOR ALL LOCATIONS WHERE CMU WALLS EXCEED 16'-0" IN HEIGHT ARE SHOWN ON PLANS. SUPPLY 24/48 PIER AT 20'-0" OC MAXIMUM UNDER GRADE BEAM.
   5. FOR ALL DUMPSTER ENCLOSURES, SCREEN WALLS, AND OTHER MASONRY FENCES NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 8 '-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS 'TYPE GB1' GRADE BEAM ON 24/48 DRILLED PIERS SPACED AT 15'-0" MAXIMUM. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #6 VERTICAL BARS SPACED AT 24" ON CENTER IN FULLY GROUTED CELLS.
   6. FOR ALL SPORTS FIELDS WHERE THE BACKSTOP WALL IS NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 4'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS CONCRETE FOOTING. FOOTING SHALL BE 1 '-0" THICK x 3'-0" WIDE BEARING 3'-0" BELOW FINISHED GRADE. STRUCTURAL MASONRY WALL SHALL BE 8 " CMU WITH #5 VERTICAL BARS SPACED AT 32" ON CENTER SUPPORTED BY CONCRETE STEM WALL EXTENDING FROM CONTINUOUS FOOTING. REINFORCE FOOTING WITH LONGITUDINAL (4) # 4 BARS AND TRANSVERSE #4 BARS AT 12" ON CENTER. AT STEM WALL PROVIDE #4 DOWELS AT 12" ON CENTER AND (3) #4 CONTINUOUS BARS AT EACH FACE.

STRUCTURAL STEEL

A. ROLLED SHAPES:
   1. ALL STRUCTURAL STEEL FOR ALL THE HORIZONTAL FRAMING MEMBER SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS OTHERWISE NOTED.
   2. ALL STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C WITH A MINIMUM YIELD OF 50 KSI, UNLESS OTHERWISE NOTED.
   3. ALL STRUCTURAL STEEL FOR PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
   4. ALL STRUCTURAL STEEL FOR ANGLES, PLATES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
   5. ALL EXPOSED STEEL TO BE HOT DIPPED GALVANIZED.
B. CONNECTIONS:
   1. THE DESIGN OF STRUCTURAL STEEL CONNECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE STEEL FABRICATOR. THE DETAILS AND CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
      - ALL WELD SIZES AND LENGTHS
      - ALL BOLT SIZES, LOCATIONS, QUANTITIES AND GRADES
      - ALL PLATE AND ANGLE SIZES, THICKNESS AND DIMENSIONS
      - ALL WORK POINT LOCATIONS AND RELATED INFORMATION.
   2. PROVIDE STANDARD BOLTED CONNECTIONS CONFORMING TO AISC BOLTED CONNECTIONS, USING ASTM A325 OR A490 BOLTS, FOR THE BEAM END SHEARS INDICATED IN THE DOCUMENTS. PROVIDE MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS.
   3. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS UNLESS OTHERWISE NOTED.
   4. SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
   5. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAM IN THE 15TH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD)
   6. WHERE BEAMS ARE TO RECEIVE HEADED SHEAR CONNECTORS, DESIGN THOSE BEAM CONNECTIONS FOR THE REACTION SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN THE CONNECTIONS TO SUPPORT 40 PERCENT OF THE MAXIMUM WEB SHEAR, V, FOR THE APPLICABLE MEMBER SIZE AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE 15TH EDITION OF THE AISC MANUAL.
   7. MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 5 ABOVE.
   8. WHERE FILLET WELD IS NOT SHOWN ON DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16"
C. WELDS:
   1. CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
   2. WELDS ON INDICATED ON DRAWINGS ARE TO BE FILLET ALL AROUND AS PRESCRIBED BY AISC SPECIFICATION, PROVIDE WELDING OF CONTINUOUS MEMBERS OF 2 INCHES OF 3/16" INCH FILLET STITCH WELDS AT 12 INCHES OC, STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED.
   3. FIELD PAINT ALL WELDS W/ "GALVILITE" BY Z.R.C. OR APPROVED EQUAL ARC WELDING ELECTRODES.
   4. METAL DECK - E60XX
   5. STRUCTURAL STUDS - E6022 OR E6011, 3/32" RODS.
   6. ALL OTHER - E70XX LOW HYDROGEN, 250 DEGREE MIN. OVEN TEMP.
   7. SIZE - ALL FILLETS ARE 1/16" LESS THAN MINIMUM THICKNESS TO BE WELDED.
   8. PROVIDE ULTRASONIC INSPECTION BY THE TESTING LABORATORY FOR ALL WELDS INDICATED AS PENETRATION WELDS.
D. HEADED SHEAR CONNECTORS:
   1. ALL HEADED SHEAR CONNECTORS SHALL BE 3/4 IN. DIAMETER STUDS x 4 1/2 IN. LONG AFTER WELDING AND SHALL CONFORM TO ASTM A108 UNLESS OTHERWISE NOTED.
   2. PLACE MAXIMUM NUMBER OF STUDS IN A SINGLE ROW PATTERN AND THE BALANCE IN A DOUBLE ROW PATTERN AS NECESSARY TO SATISFY THE AISC SPACING REQUIREMENT.
E. OPEN WEB STEEL JOISTS:
   1. AS APPLICABLE FOR THE OPEN WEB STEEL JOIST TYPE INDICATED ON THE DRAWINGS, CONFORMING TO SJI OR AISC, WHICHEVER IS MORE STRINGENT.
   2. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI.
   3. DESIGN ROOF JOISTS USING GOVERNING LOAD COMBINATIONS WITH UPLIFT PRESSURES INDICATED ON COMPONENT AND CLADDING PRESSURES TABLE.
F. STEEL DECK:

TYPE 1

   1. PROVIDE 1" VENTED METAL DECK, 20 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 80, GALVANIZED COATING DESIGNATION G90. PROVIDE LIGHT WEIGHT CONCRETE TOPPING (48-60 PCF), FILLING FLUTES ONLY.REFER TO ARCHITECTURAL DRAWINGS FOR INSULATION REQUIREMENTS.
   2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
      A. MOMENT OF INERTIA: I =0.090 INCHES⁴ /FOOT WIDTH
      B. SECTION MODULUS: Sp =0.168 INCHES³ /FOOT WIDTH
      C. SECTION MODULUS: Sn =0.166 INCHES³ /FOOT WIDTH
   3. ATTACH STEEL ROOF DECK TO STEEL SUPPORTS AND AT SIDE LAPS AS FOLLOWS:
      A. POWDER-ACTUATED FASTENERS:
         - SUPPORTS: "HILTI" X-HSN-24 AND "HILTI" X-ENP-19L15, 32/5 PATTERN
         - SIDELAPS: #12 "TEK" @ 8" O.C. MAXIMUM
      B. WELDS:
         - SUPPORTS: 5/8" PUDDLE WELD, 32/5 PATTERN
         - SIDELAPS: #14 TEK SCREWS @ 8" O.C. MAX

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY AVILES ENGINEERING CORPORATION , DATED MAY 2025 REPORT NO. G103-25A (Draft) IS AVAILABLE FOR REVIEW.
B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.
C. SUB-GRADE PREPARTION:
   a. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED BY THE GEOTECHNICAL REPORT. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.
   b. EXCAVATE EXISTING SOILS AS REQUIRED TO REMOVE ALL EXISTING VEGETATION, ROOTS AND DELETERIOUS MATERIALS FROM THE PROPOSED BUILDING AREA, AND AS REQUIRED BY GEOTECHNICAL REPORT. THE CLEARING SHOULD EXTEND BEYOND THE BUILDING EDGES. ONCE ROUGH GRADE IS ESTABLISHED, THE EXPOSED SURFACE SHOULD BE PROOF-ROLLED. ANY SOFT POCKETS OF SOFT OR WEAK SOILS ENCOUNTERED SHOULD BE REMOVED. BUILD BUILDING PAD AS REQUIRED BY GEOTECHNICAL REPORT.
   c. BUILDING PAD UNDER SLAB ON GRADE SHALL BE PREPARED TO PROVIDE AN OWNER APPROVED PVR OF 1" OR LESS BASED ON RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
D. FOUNDATIONS HAVE BEEN DESIGNED FOR
   1) AN ALLOWABLE BEARING CAPACITY OF 2,100 POUNDS PER SQUARE FOOT (PSF) FOR SUSTAINED LOADS.
   2) AN ALLOWABLE BEARING CAPACITY OF 3,150 PSF FOR TOTAL LOADS.
E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

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FRED DALLY
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PROFESSIONAL ENGINEER
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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL
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Title
GENERAL STRUCTURAL CRITERIA

Project No. 214001246
Scale 1 1/2" = 1'-0"
Revision
Drawing No.
S101-HGES

INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TOPERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBILITIES:
   1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.
   2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.
   3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.
   4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.
   5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.
   6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.
   7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.
C. SPECIAL INSPECTIONS:
   1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. HE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.
   2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE INTERNATIONAL BUILDING CODE, SECTION 1704.
   3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCE STANDARD	FREQUENCY

STRUCTURAL REINFORCING STEEL:
- a. HIGH STRENGTH BOLTING
  - BEARING TYPE CONNECTIONS: PERIODIC
  - SLIP CRITICAL CONNECTIONS: PERIODIC
- b. WELDING OF STRUCTURAL STEEL:
  - FULL PENETRATION GROOVE WELDS: CONTINUOUS
  - MULTI-PASS FILLET WELDS: CONTINUOUS
  - SINGLE-PASS FILLET WELDS > 5/16": CONTINUOUS
  - SINGLE PASS FILL WELDS <= 5/16": PERIODIC
  - FLOOR AND DECK WELDS: PERIODIC
- c. WELDING OF REINFORCING STEEL
  - WELDABILITY OF STEEL OTHER THAN ASTM A706: PERIODIC
  - SHEAR REINFORCEMENT: CONTINUOUS
  - OTHER REINFORCEMENT: PERIODIC
- d. INSPECTION OF STEEL FRAME AND JOISTS:
  - DETAILS SUCH AS BRACING AND STIFFENING: PERIODIC
  - MEMBER SIZES AND LOCATION: PERIODIC
  - APPLICATION OF CONNECTION DETAIL: PERIODIC
- e. CONCRETE CONSTRUCTION:
  - REINFORCING STEEL: PERIODIC (RANDOMLY AT 20%)
  - CONCRETE MIX DESIGN: PERIODIC AT EACH CONCRETE POUR
  - SAMPLING OF FRESH CONCRETE: CONTINUOUS (SEE NOTE 1)
  - MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES: PERIODIC AT EACH POUR
  - INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION OF TECHNIQUES: CONTINUOUS
  - INSPECTING OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS: PERIODIC
- f. SOILS (SLAB ON GRADE):
  - VISUAL OBSERVATIONS: PERIODIC
  - PROOF ROLLING OBSERVATION: CONTINUOUS
  - MOISTURE CONDITIOINING & RECOMPACTION: CONTINUOUS OR PERIODIC (ONE DENSITY TEST FOR EACH 2,000 SF)
  - DURING FILL PLACEMENT: CONTINUOUS OR PERIODIC
  - EVALUATION OF IN PLACE DENSITY FILL: CONTINUOUS OR PERIODIC
- g. PIERS:
  - OBSERVE DRILLING OPERATIONS AND COMPLETE RECORD OF DRILLING: CONTINUOUS
  - VERIFY PLACEMENTS LOCATIONS AND PLUMBNESS, LNEGTH, EMBEDMENT AND ADEQUATE BEARING STRENGTH CAPACITY, CONFIRM PIER DIAMETER, REINFORCING STEEL (RE: CONCRETE ABOVE): CONTINUOUS
- h. MASONRY:
  - VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS: PERIODIC
  - AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
    1. PROPORTIONS OF SITE-PREPARED MORTAR: PERIODIC
    2. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
    3. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES: PERIODIC
  - PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:
    1. GROUT SPACE: PERIODIC
    2. GRADE, TYPE AND SIZE REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES: PERIODIC
    3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES: PERIODIC.
    4. PROPORTIONS OF SITE-PREPARED GROUT: PERIODIC.
    5. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
  - VERIFY DURING CONSTRUCTION:
    1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS: PERIODIC.
    2. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION: PERIODIC
    3. WELDING OF REINFORCMENT: CONTINUOUS
    4. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)): PERIODIC
  - OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS: PERIODIC

NOTES:

- PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPEC'D VALUE.
- ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE PULL TESTED TO 110% FOR NO LESS THAN 3 MIN.
- ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
- CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
- PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

MASONRY

A. CONSTRUCT REINFORCED MASONRY IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES", ACI 530.1/ASC36. MASONRY ALLOWABLE DESIGN STRESSES ARE BASED UPON REQUIRING NO SPECIAL INSPECTION.
B. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 MINIMUM FACE THICKNESS SHALL BE 1.25". ALL WALLS ARE LIGHT WEIGHT BLOCKS (105 PCF OR LESS).
C. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL BOLTS USED FOR ANCHORAGE SHALL BE ASTM A307 HEADED BOLTS.
D. MASONRY STRENGTH (F'M) AT 28 DAYS SHALL BE A MINIMUM OF 2,000 PSI. USE TYPE M OR S MORTAR. MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. GROUT SHALL CONFORM TO ASTM C476. GROUT STRENGTH SHALL BE AT LEAST 2800 PSI.
E. PROVIDE MORTAR BED OR WEB BETWEEN GROUTED BED AND HOLLOW CELL. USE FULL HEAD AND BED JOINTS.
F. UNLESS SHOWN ON DETAILS, PROVIDE #9 LADDER OR TRUSS HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. PROVIDE 2 #5 AT ALL JAMBS AND ENDS OF WALLS.
G. GROUT SOLID THE FIRST CELL ON EITHER SIDE OF DOOR OPENINGS, UNLESS OTHERWISE NOTED. PROVIDE 8" U-BLOCK CMU LINTEL WITH 8" BEARING EACH END; REINFORCE WITH (2) # 4 BOTTOM.
H. EMBED ALL BOLTS IN FULL GROUTED CELL. PLACE BOLTS IN SAME VERTICAL CELL AS REINFORCING IF POSSIBLE. MINIMUM EMBEDDED LENGTH IS ONE-HALF WIDTH OF CELL.
I. // UNLESS SHOWN ON DETAILS, PROVIDE (2) #5 HORIZONTAL REINFORCEMENT IN FULLY GROUTED CELL AT 48" OC VERTICALLY.
J. GROUT SOLID THE FIRST CELL ON EACH LEVEL & ROOF. REINFORCE WITH HORIZONTAL AS PER NOTE 1. RE: TO DETAIL 9 ON THE TYPICAL CMU DETAIL SHEET.

REINFORCEMENT TABLE: NON-LOAD BEARING CMU WALL (CMU 2.0-60, 105 PCF)

INTERIOR WALLS = 10 PSF				
UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
14'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
16'-0"	#4 @ 40" OC	#4 @ 48" OC	#4 @ 48" OC	
18'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
20'-0"	#4 @ 24" OC	#4 @ 40" OC	#4 @ 48" OC	
22'-0"	#4 @ 16" OC	#5 @ 32" OC	#4 @ 48" OC	
24'-0"		#5 @ 32" OC	#4 @ 40" OC	
26'-0"		#5 @ 24" OC	#4 @ 32" OC	
28'-0"		#6 @ 32" OC	#5 @ 40" OC	
30'-0"		#6 @ 24" OC	#5 @ 32" OC	
32'-0"		#6 @ 24" OC	#6 @ 32" OC	
34'-0"			#6 @ 24" OC	
36'-0"			#7 @ 32" OC	
38'-0"			#7 @ 32" OC	#7 @ 32" OC
40'-0"				#7 @ 32" OC
EXTERIOR WALLS = 30 PSF				
UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 24" OC	#4 @ 32" OC	#4 @ 48" OC	
14'-0"	#4 @ 16" OC	#4 @ 32" OC	#4 @ 32" OC	
16'-0"	#6 @ 16" OC	#5 @ 24" OC	#5 @ 40" OC	
18'-0"		#5 @ 16" OC	#5 @ 24" OC	
20'-0"		#6 @ 16" OC	#5 @ 24" OC	
22'-0"		#6 @ 8" OC	#5 @ 16" OC	
24'-0"			#6 @ 16" OC	
26'-0"			#7 @ 16" OC	
28'-0"			#7 @ 8" OC	
30'-0"			#8 @ 8" OC	

NOTES:

1. DEFINITIONS:
   A. "H" CLEAR WALL HEIGHT, FEET, BETWEEN CONNECTIONS TO STRUCTURE.
   B. "U.R." UNREINFORCED WALL (NO VERTICAL REINFORCEMENT IS REQUIRED, EXCEPT AS DETAIL ON DRAWINGS AT OPENINGS, ETC.)
   C. "N.A." NOT APPLICABLE. THICKER WALL REQUIRED FOR SPAN.
2. SPECIFIED REINFORCING STEEL SHALL BE PLACED IN CENTER OF WALL. (Fy=60 ksi)
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR HORIZONTAL REINFORCING REQUIREMENTS.
4. THIS TABLE SHALL ONLY BE USED FOR VERTICALLY SPANNING C.M.U. WALLS.
5. SEE TYPICAL DETAILS FOR BRACING REQUIREMENTS AT THE TOP/ENDS OF THE WALL AND DOWELS TO THE STRUCTURE. REINFORCING STEEL SHALL BE CENTERED IN THE CMU WALL BY USING BAR POSITIONERS AT 8'-0" OC VERTICALLY.
6. SPLICING OF VERTICAL STEEL: SEE TYPICAL DETAIL FOR REQUIRED SLAP SPLICE LENGTHS.
7. FOR USE WITH PORTLAND CEMENT / LIME MORTAR.

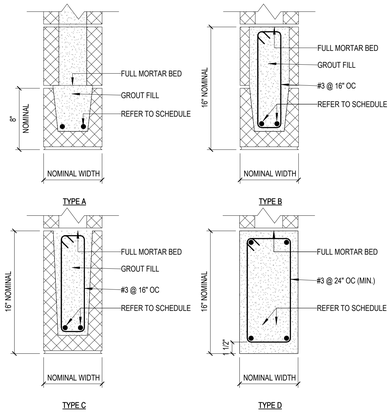
CONCRETE MASONRY UNIT (CMU) LINTEL SCHEDULE

A. PROVIDE 8" MINIMUM BEARING EACH END FOR CMU LINTELS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
B. CURVE CMU LINTEL AND REINFORCING FOR THE RADIUS OF THE WALL WHERE OCCURRING AND PROVIDE 1'-4" MINIMUM BEARING EACH END.

SPAN	6x8	6x16	8x8	8x16	10x8	10x16	12x8	12x16
3-4	1-#3		1-#3		2-#3		2-#3	
4-0	1-#4		2-#3		2-#3		2-#4	
4-8	2-#4		2-#4		2-#4		2-#4	
5-4	2-#4		2-#4		2-#4	2-#3	2-#5	
6-0	2-#4	1-#4		2-#3	2-#5	2-#4	2-#5	2-#4
6-8		1-#5		2-#4		2-#4	2-#6	2-#4
7-4		1-#5		2-#4		2-#4		2-#5
8-0		1-#6		2-#4		2-#5		2-#5
8-8		1-#6		2-#5		2-#5		2-#6
9-4		1-#7		2-#5		2-#6		2-#6

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 7 5/8".
3. REINFORCEMENT SHALL PROJECT A MINIMUM OF 6" ONTO THE BEARING.
4. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM f'm=1500 psi.
5. LINTELS SCHEDULED AS 16" HIGH MAY BE EITHER TYPE "B" OR TYPE "C" AS DETAILED BELOW.
6. PRECAST CONCRETE LINTELS AS SHOWN MAY BE USED WITH ARCHITECT'S APPROVAL, MINIMUM f'c = 3000 psi.

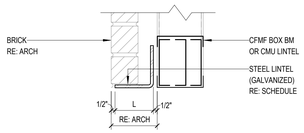


LOOSE VENEER LINTEL SCHEDULE

MASONRY OPENING	SIZE	DETAIL
LESS THAN 4'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
4'-0" BUT LESS THAN 5'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
5'-0" BUT LESS THAN 6'-0"	"L" X 5" X 1/4" BENT PL (LLH)	J
6'-0" BUT LESS THAN 8'-6"	"L" X 7" X 5/16" BENT PL (LLH)	J
8'-6" BUT LESS THAN 10'-0"	"L" X 7" X 3/8" BENT PL (LLH)	J

NOTES:

1. SEE DETAIL BELOW FOR TYPICAL LOOSE LINTEL HORIZONTAL LEG LENGTH "L". ALL DIMENSIONS PROVIDED MUST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
2. PROVIDE 8" MINIMUM BEARING EACH END FOR STEEL LOOSE LINTELS.
3. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
5. HOT DIP GALVANIZE ALL LINTELS AFTER FABRICATION.



SHORING REQUIREMENTS

A. DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY SHORING AND BRACING TO SAFELY SUPPORT THE EXISTING WALLS, FLOOR SLABS AND ROOF WHERE NEW OPENINGS ARE TO BE CUT INTO THE EXISTING WHERE LOAD-BEARING ELEMENTS ARE TO BE REMOVED.
B. SUBMIT CALCULATIONS, SHORING PROCEDURES AND DETAILS PREPARED, AND SEALED, BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF TEXAS, TO THE ARCHITECT FOR REVIEW PRIOR TO PRECEDING WITH THIS WORK.
C. SHORING AND BRACING WORK SHALL BE PERFORMED BY A SHORING CONTRACTOR WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN SIMILAR TYPE OF WORK.
D. PRIOR TO START OF WORK, ESTABLISH AND DOCUMENT ELEVATIONS OF THE EXITING CONSTRUCTION AT INTERVALS ALONG THE WALLS TO BE REMOVED. CONTINUOUSLY MONITOR THE ELEVATION DURING DEMOLITION AND CONSTRUCTION OPERATIONS. METHOD OF SHORING SHOULD HAVE PROVISIONS FOR VERTICAL ADJUSTMENT TO MAINTAIN ELEVATIONS OF EXISTING CONSTRUCTION.

DEMOLITION

A. CONDUCT DEMOLITION OPERATIONS IN EXTREMELY CAREFUL MANNER IN ORDER TO PREVENT ANY DAMAGES TO ALL EXISTING CONSTRUCTION AND TO MINIMIZE INTERFERENCE WITH ADJACENT "STRUCTURES"
B. PREVENT THE MOVEMENT, SETTLEMENT, DAMAGE OR INJURY TO ADJACENT STRUCTURES, PROVIDE & PLACE BRACING OR SHORING & BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE ADJACENT STRUCTURES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, OR INJURY.
C. CEASE OPERATIONS & NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SAFETY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT EXISTING STRUCTURES PROPERLY. DO NOT RESUME OPERATIONS UNTIL THE FULL SAFETY IS RESTORED.
D. PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT SERVICES, SIDEWALKS, DRIVEWAYS & TREES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. REPAIR DAMAGE PROMPTLY AT NO COST TO THE OWNER.
E. DEMOLISH INDICATED STRUCTURES & APPURTENANCE IN AN ORDERLY AND CAREFUL MANNER.
F. PERFORM DEMOLITION IN ACCORDANCE WITH THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
G. REMOVE FOUNDATION WALLS & FOOTINGS AS INDICATED ON DEMOLITION DRAWINGS TO A MINIMUM 3' FEET BELOW FINISH GRADE.
H. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT INDICATED, AT NO COST TO THE OWNER OR THE ARCHITECT/ENGINEER.
I. REPAIR DAMAGE TO ADJACENT STRUCTURES CAUSED AS THE RESULT OF THIS WORK AT NO COST TO THE OWNER OF THE ARCHITECT/ENGINEER.

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Notes

Revision	By	Appd	YYYY.MM.DD
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09/24/2025

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
GENERAL STRUCTURAL CRITERIA

Project No.	Scale
214001246	1 1/2" = 1'-0"
Revision	Drawing No.

S102-HGES

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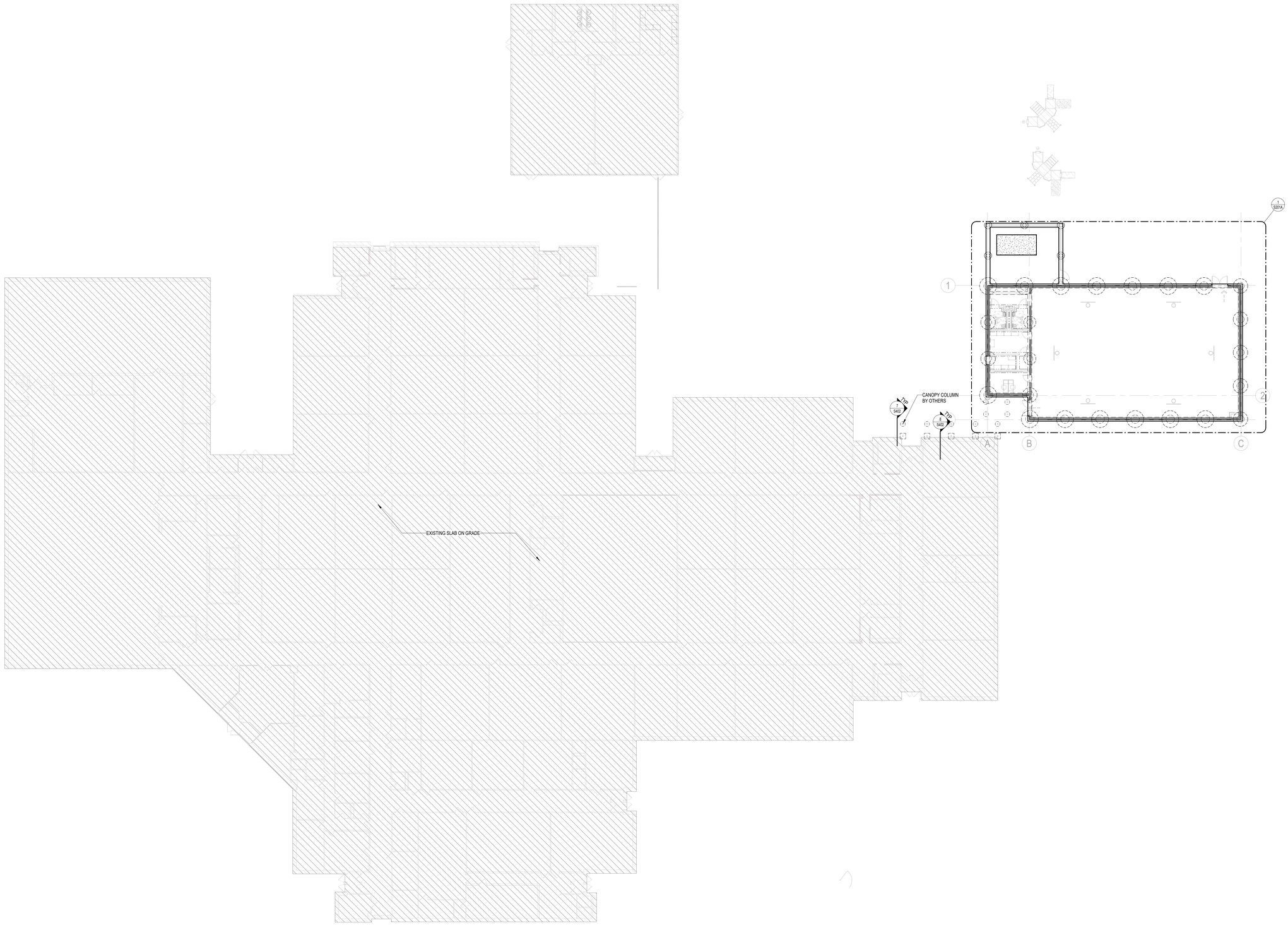

1 COMPOSITE FOUNDATION PLAN
1/16" = 1'-0"

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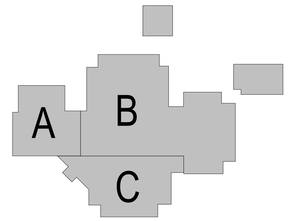

Revision	By	Appd	YYYY.MM.DD

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100% ISSUE FOR BID AND PERMIT			2025.09.24

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Title

FOUNDATION PLAN - COMPOSITE

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.
	S201-HGES

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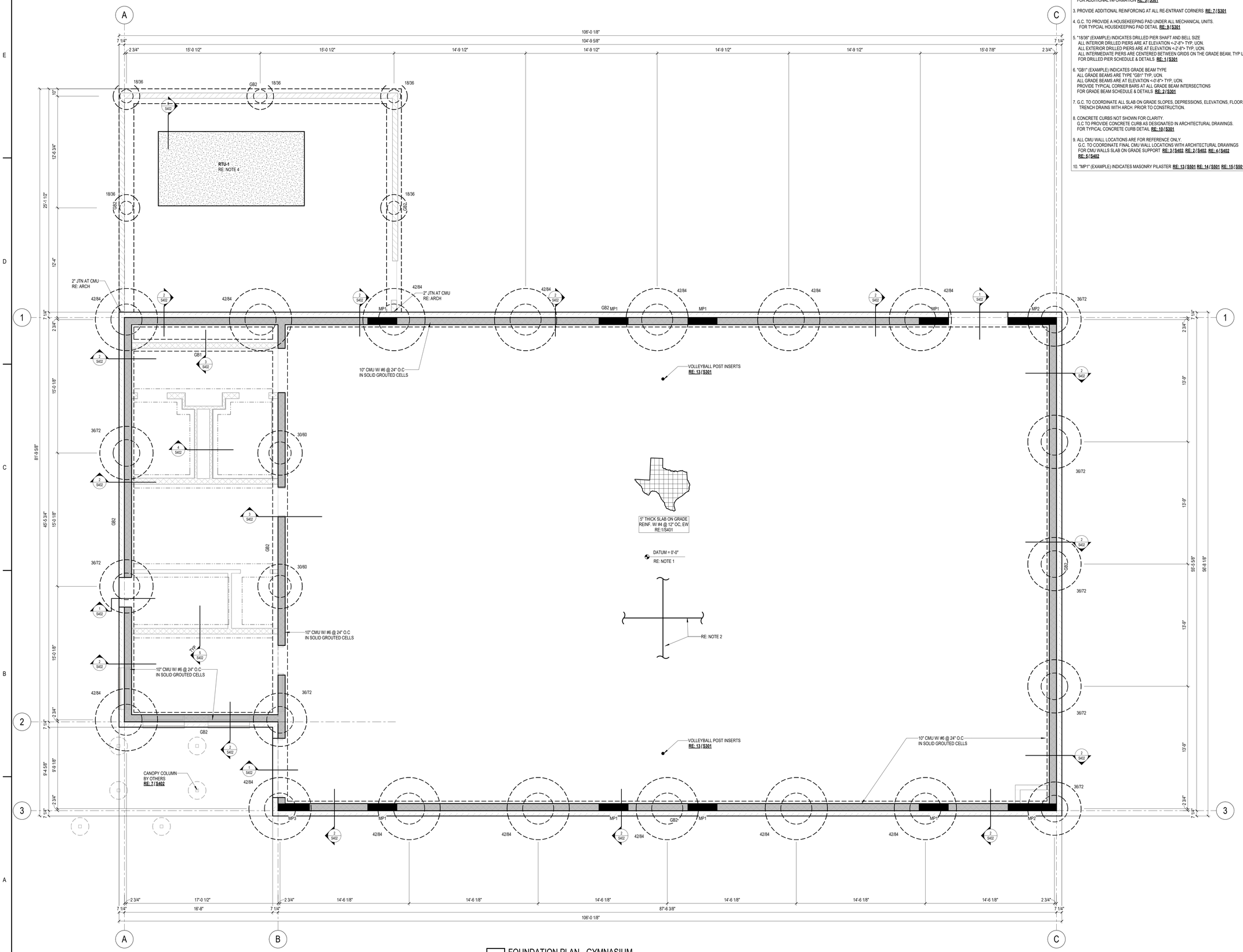

1 FOUNDATION PLAN - GYMNASIUM
1/4" = 1'-0"

FOUNDATION NOTES:

1. DATUM ELEVATION <0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL.
ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION <0' - 0">.

2. PROVIDE CONTROL JOINTS AT EVERY COLUMN LINE AND AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 15'-0"), TYPICAL UON.
FOR ADDITIONAL INFORMATION **RE: 5 / S301**

3. PROVIDE ADDITIONAL REINFORCING AT ALL RE-ENTRANT CORNERS **RE: 7 / S301**

4. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS.
FOR TYPCIAL HOUSEKEEPING PAD DETAIL **RE: 9 / S301**

5. "18/36" (EXAMPLE) INDICATES DRILLED PIER SHAFT AND BELL SIZE
ALL INTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-8"> TYP. UON.
ALL EXTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-8"> TYP. UON.
ALL INTERMEDIATE PIERS ARE CENTERED BETWEEN GRIDS ON THE GRADE BEAM, TYP UON.
FOR DRILLED PIER SCHEDULE & DETAILS **RE: 1 / S301**

6. "GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE
ALL GRADE BEAMS ARE TYPE "GB1" TYP. UON.
ALL GRADE BEAMS ARE AT ELEVATION <-0'-8"> TYP. UON.
PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS
FOR GRADE BEAM SCHEDULE & DETAILS **RE: 2 / S301**

7. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH. PRIOR TO CONSTRUCTION.

8. CONCRETE CURBS NOT SHOWN FOR CLARITY.
G.C TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS.
FOR TYPICAL CONCRETE CURB DETAIL **RE: 19 / S301**

9. ALL CMU WALL LOCATIONS ARE FOR REFERENCE ONLY.
G.C. TO COORDINATE FINAL CMU WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS
FOR CMU WALLS SLAB ON GRADE SUPPORT **RE: 3 / S402**, **RE: 2 / S402**, **RE: 4 / S402**
RE: 5 / S402

10. "MP1" (EXAMPLE) INDICATES MASONRY PILASTER **RE: 13 / S501** **RE: 14 / S501** **RE: 15 / S501**

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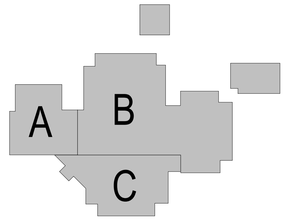

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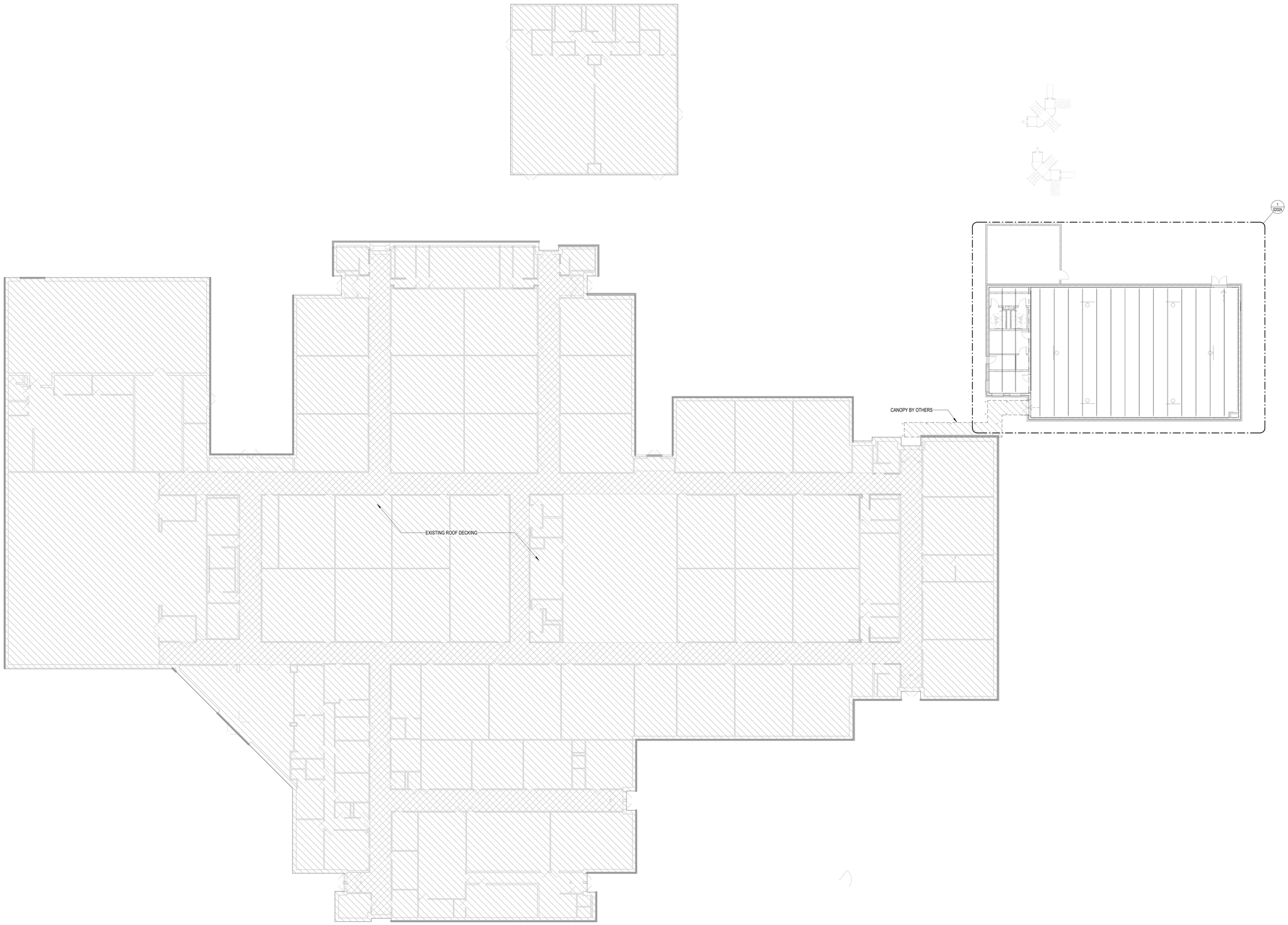
Title
FOUNDATION PLAN - GYMNASIUM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

S201A-HGES

ORIGINAL SHEET - ARCH D1



1 COMPOSITE ROOF FRAMING PLAN
1/16" = 1'-0"

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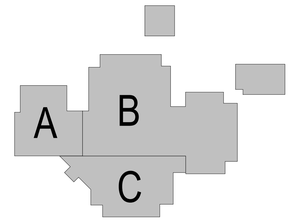

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Title
ROOF FRAMING PLAN - COMPOSITE

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.

S202-HGES

ORIGINAL SHEET - ARCH D1
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STEEL ROOF FRAMING NOTES:

1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. " DECK TYPE 1 " (EXAMPLE) INDICATES ROOF DECK SPAN DIRECTION AND DECK TYPE 1. TOS ELEVATION AT ROOF DECKS ARE AT BOD, TYP. UON. FOR DECK TYPE INFORMATION "STRUCTURAL STEEL" GENERAL NOTES.
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP. COORDINATE EXACT LOCATION OF ALL MEP UNITS WITH MEP. FOR FRAMING AROUND ROOF OPENINGS **RE: 3 / S601**
4. PIPE RUN LOCATIONS TO BE SUPPORTED BY THE JOIST MANUFACTER NOT SHOWN FOR CLARITY. JOIST MANUFACTERER AND G.C. TO TO COORDINATE FINAL PIPE RUN LOCATIONS WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION **RE: 4 / S601**
5. "MP1" (EXAMPLE) INDICATES MASONRY PILASTER **RE: 13 / S501 RE: 14 / S501 RE: 15 / S501**

104'-9 5/8"
17'-3 1/4"
87'-6 3/8"
45'-5 3/4"
55'-5 5/8"
9'-11 7/8"
BOD = 24'-0 3/4"
BOD = 23'-2 3/8"
BOD = 23'-0"
CANOPY BY OTHERS
10" CMU W/ #6 @ 24" O.C IN SOLID GROUTED CELLS
MP1
MP2
MP3
30KB
C15X50
32LHSP
32LH06
DECK TYPE 1
SLOPE

1 ROOF FRAMING PLAN - GYMNASIUM
1/4" = 1'-0"

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09/24/2025

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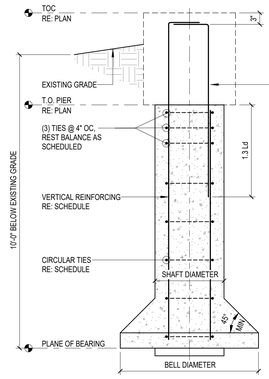
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ROOF FRAMING PLAN - GYMNASIUM

Project No. 214001246
Scale As indicated
Revision
Drawing No. S202A-HGES

Pick location in Project Information
1/22/2025 8:39:47 AM
ORIGINAL SHEET - ARCH E1

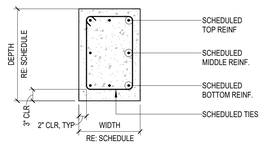
DRILLED PIER SCHEDULE					
SHAFT DIAMETER	VERTICAL REINFORCING		TIES		
	NUMBER	SIZE	SIZE	SPACING (IN)	
18	6	#5	#4	12	
30	6	#8	#4	12	
42	10	#8	#4	12	
36	8	#8	#4	12	



1. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW
2. THE INDEPENDENT TESTING LABORATORY SHALL CONFIRM THE ALLOWABLE SOIL BEARING CAPACITY IN THE FIELD AT THE ELEVATION DESIGNATED AS THE PLANE OF BEARING FOR THE DRILLED PIER.
   A. ALLOWABLE BEARING PRESSURE OF **2,100** PSF FOR SUSTAINED LOAD.
3. ALLOWABLE BEARING PRESSURE OF 3,150 PSF FOR TOTAL LOAD.
4. THE INDEPENDENT TESTING LABORATORY SHALL INSPECT THE BOTTOM AND SIDES OF THE DRILLED PIER PRIOR TO PLACING REINFORCING AND CONCRETE.
5. CENTER ALL DRILLED PIERS UNDER THEIR COLUMNS, UON.
6. MAINTAIN CLOSE AND ACCURATE DRILLING PRACTICES TO ACHIEVE CLOSE TOLERANCES WITH THE REINFORCING STEEL AND THE ANCHOR ROD TEMPLATE.
7. ALL REINFORCING STEEL FOR DRILLED PIERS SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
8. ALL SCHEDULED REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED.
9. DEPOSIT CONCRETE TO ITS FINAL POSITION BY THE USE OF A TREMIE.
10. CONSOLIDATE CONCRETE IN ITS FINAL POSITION BY VIBRATING.
11. **SLURRY NOTE:** THE PRESENCE OF WATER OR SLOUGHING DUE TO SAND HAS BEEN MENTIONED IN GEOTECHNICAL REPORT. CONTRACTOR TO PROVIDE AN ALTERNATE ITEMIZED, LUMP-SUM PRICE FOR ALL PIERS, PER SIZE, SHOWN ON PLAN USING SLURRY METHOD OR ANY EQUIVALENT CASING METHOD. LUMP-SUM PRICE MUST INCLUDE, BUT NOT LIMITED TO, MATERIAL, LABOR MOBILIZATION AND ANY IMPACT TO THE PROJECT SCHEDULE. CONTRACTOR TO COORDINATE WITH ACI-336.1 AND ACI 336.3R SPECIFICATIONS FOR DRILLING AND PROCEDURE REQUIREMENTS FOR SLURRY DISPALCEMENT METHOD.

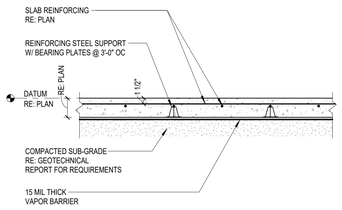
1 DRILLED PIER SCHEDULE
3/4" = 1'-0"

GRADE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	TOP REINF.	MIDDLE REINF.	BOTTOM REINF.	TIES (OC, TYP)
GB1	1'-4"	2'-0"	(3) #7	-	(3) #7	#4 @ 10"
GB2	1'-8"	2'-0"	(3) #7	-	(3) #7	#4 @ 10"

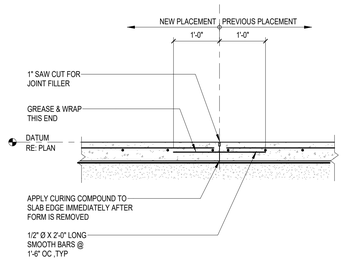


TYPICAL SECTION

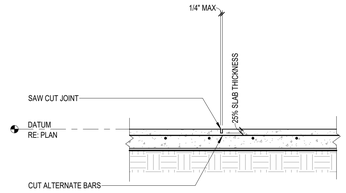
2 GRADE BEAM SCHEDULE
3/4" = 1'-0"



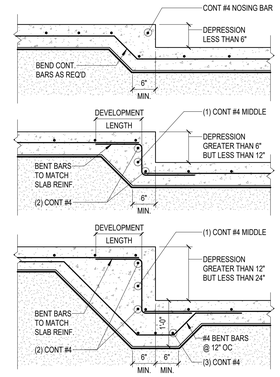
3 TYPICAL SLAB SECTION
3/4" = 1'-0"



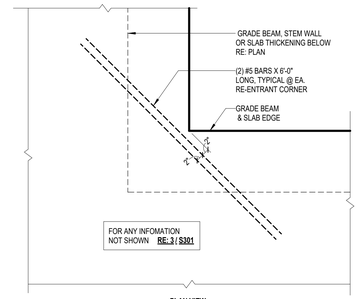
4 TYPICAL SECTION - CONSTRUCTION JOINT
3/4" = 1'-0"



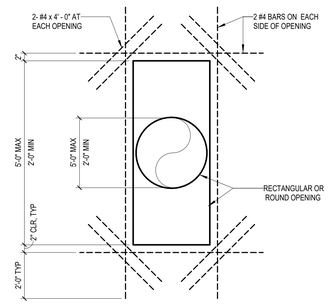
5 TYPICAL SECTION - CONTROL JOINT
3/4" = 1'-0"



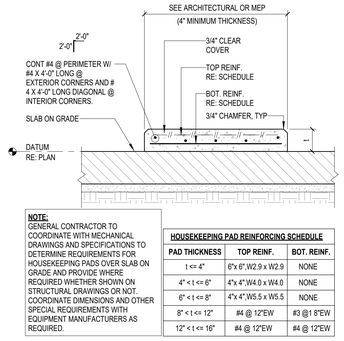
6 TYPICAL SLAB DEPRESSION DETAILS
3/4" = 1'-0"



7 TYPICAL RE-ENTRANT CORNER REINF.
3/4" = 1'-0"



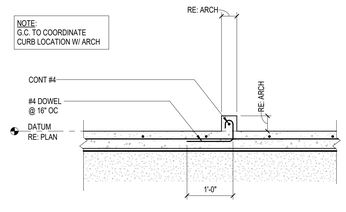
8 SLAB REINF. AT OPENING 5'-0" OR LESS
3/4" = 1'-0"



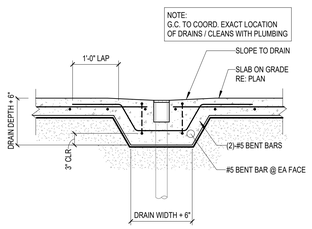
NOTE:
GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB ON GRADE AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.

HOUSEKEEPING PAD REINFORCING SCHEDULE		
PAD THICKNESS	TOP REINF.	BOT. REINF.
t <= 4"	6"x 6",W2.9 x W2.9	NONE
4" < t <= 6"	4"x 4",W4.0 x W4.0	NONE
6" < t <= 8"	4"x 4",W5.5 x W5.5	NONE
8" < t <= 12"	#4 @ 12"EW	#3 @ 8"EW
12" < t <= 16"	#4 @ 12"EW	#4 @ 12"EW

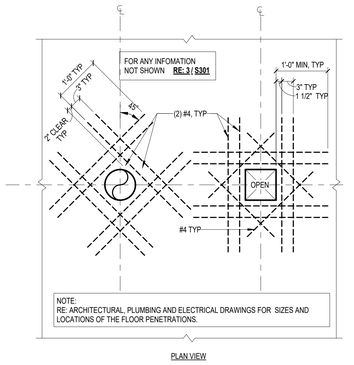
9 TYPICAL HOUSEKEEPING PAD DETAIL
3/4" = 1'-0"



10 TYPICAL CURB DETAIL
3/4" = 1'-0"



11 TYPICAL SLAB THICKENING AT SINK DRAIN
3/4" = 1'-0"



12 SLAB REINF. AT OPENING 2'-0" OR LESS
3/4" = 1'-0"

13 FOUNDATION @ VOLLEYBALL SLEEVE
3/4" = 1'-0"

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D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JT Dwn.	AR Dsgn.	LMM Chkd.	2024.04.11 YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

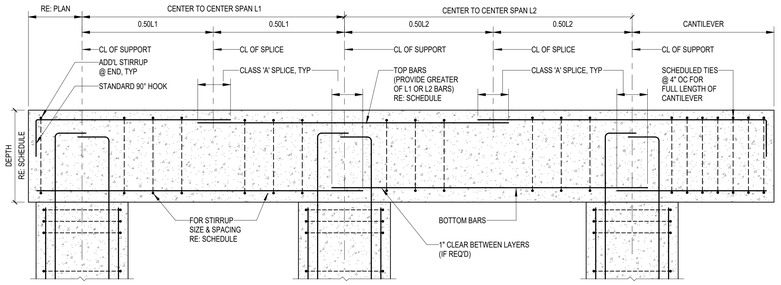
FOUNDATION SCHEDULE & TYPICAL SLAB ON GRADE DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.

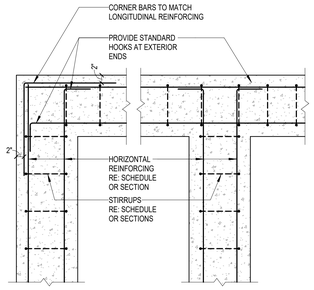
S301-HGES

*Plot location in Project Information
1/20/2025 8:39:31 AM

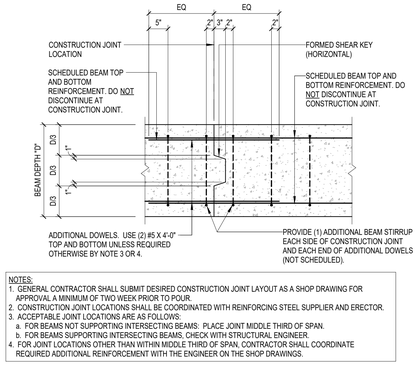
ORIGINAL SHEET - ARCH E1



1 TYPICAL GRADE BEAM REINF. ELEVATION
3/4" = 1'-0"

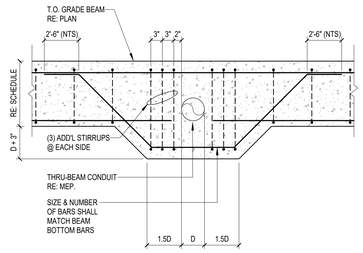


2 TYPICAL GRADE BEAM REINF. AT INTERSECTION
3/4" = 1'-0"

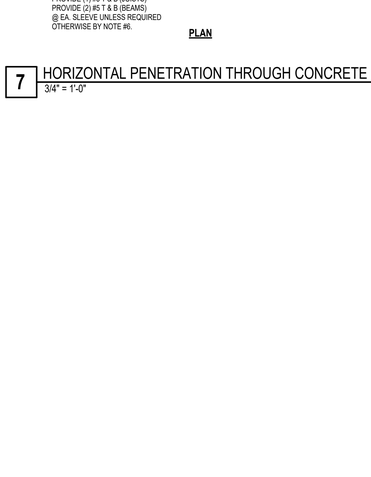


NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEK PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: PLACE JOINT MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

3 TYPICAL GRADE BEAM CONSTRUCTION JOINT
3/4" = 1'-0"



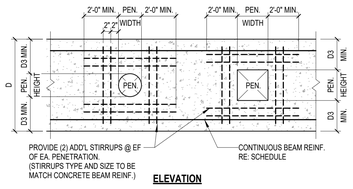
4 TYPICAL THRU. BEAM CONDUIT
3/4" = 1'-0"



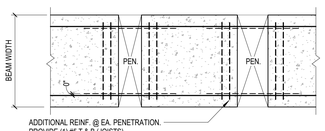
CONDUIT BELOW GRADE BEAM

CONDUIT BELOW THROUGH GRADE BEAM

5 TYPICAL CONDITION AT CONDUIT
3/4" = 1'-0"



ELEVATION

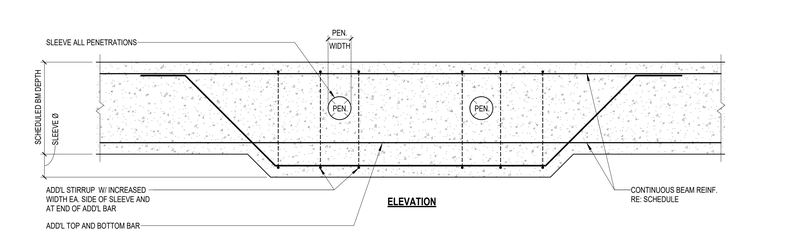


PLAN

NOTES:

1. GENERAL CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN THEIR CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS AND JOISTS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SUBMIT DRAWINGS, SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.
3. "D" DENOTES THE DEPTH OF BEAM OR JOIST.
4. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
5. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   A. FOR BEAMS (AND JOIST) NOT SUPPORTING INTERSECTING BEAMS (OR JOISTS): LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   B. FOR BEAMS (OR JOISTS) SUPPORTING INTERSECTING BEAMS (OR JOISTS): CHECK WITH STRUCTURAL ENGINEER.
   C. FOR LOCATIONS AND /OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

7 HORIZONTAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"



ELEVATION

NOTES:

1. REQUIRED BEAM SLEEVES ARE TO BE COORDINATED WITH M.E.P. CONTRACTORS. REQUIRED SLEEVES MAY BE OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. CONTINUOUS BEAM REINFORCING MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OR OFFSET, OR BEND REINFORCING.
3. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 2". IF OUTSIDE DIAMETER OF IS GREATER THAN 2", THE WIDTH OF THE BEAM SHALL BE INCREASED BY THE PENETRATION DIMENSION (6" MAX). THE INCREASED WIDTH HALL EXTEND 1'-6" ON EACH SIDE OF THE PENETRATION. ADD (1) ADDITIONAL TOP AND BOTTOM BAR AND ADD'L STIRRUPS AT THICKENED PORTION. NO REBAR SHALL BE CUT TO ALLOW FOR THE PENETRATION
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.

8 VERTICAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"

6 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	JT	AR	LMM	2024.04.11

Permit/Seal

09/24/2025

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL

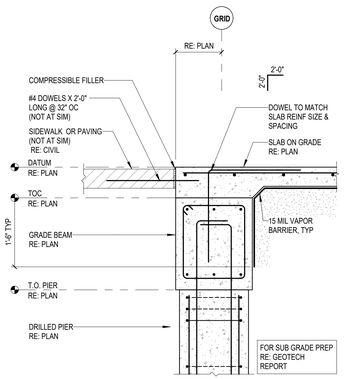
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

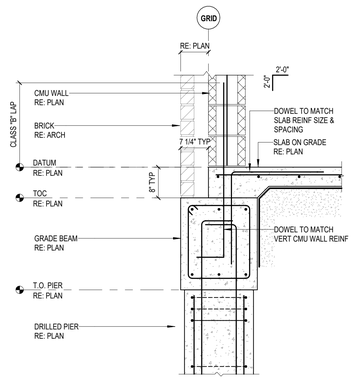
TYPICAL GB AND CF DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.
	S401-HGES

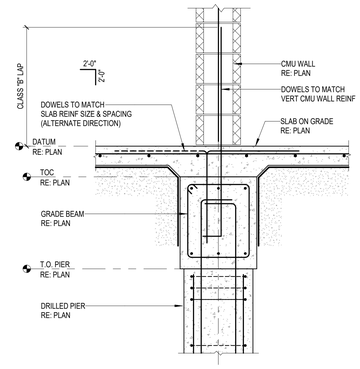
*Plot location in Project Information
1/20/2025 8:39:34 AM
ORIGINAL SHEET - ARCH E1



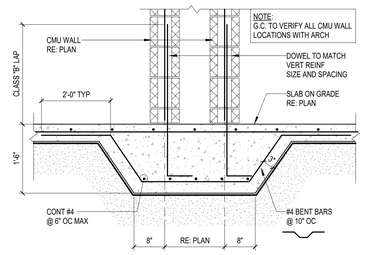
1 FOUNDATION SECTION
3/4" = 1'-0"



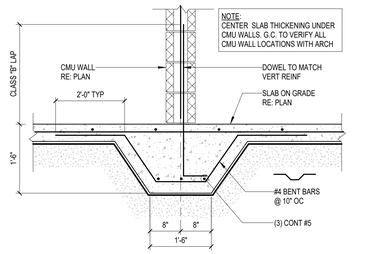
2 FOUNDATION SECTION
3/4" = 1'-0"



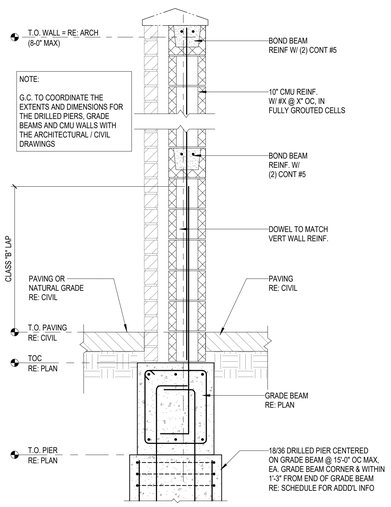
3 FOUNDATION SECTION
3/4" = 1'-0"



4 TYPICAL SLAB THICKEING AT CMU (11'-0" OR LESS)
3/4" = 1'-0"

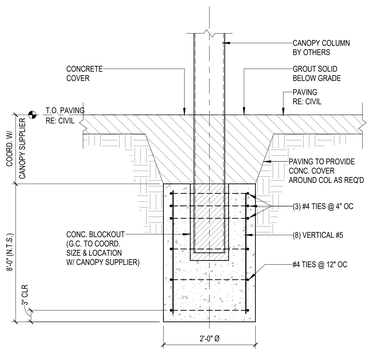


5 TYPICAL SLAB THICKENING AT CMU (11'-0" OR LESS)
3/4" = 1'-0"

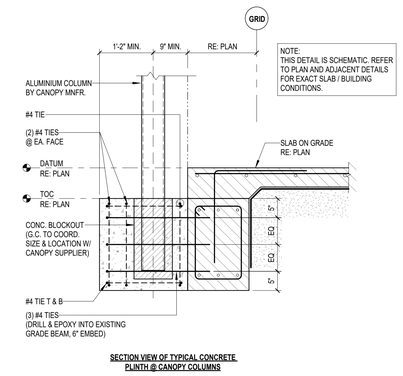


6 TYPICAL CMU SCREEN WALL (8'-0" MAX)
3/4" = 1'-0"

NOTE: THIS CONDITION IS SHOWN FOR PRICING PURPOSES ONLY. G.C. TO COORDINATE FOUNDATION W/ CANOPY SUPPLIER

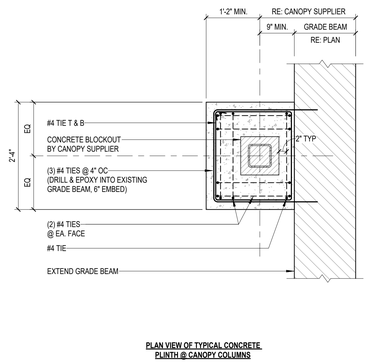


7 TYPICAL AVADEK CANOPY FOUNDATION
3/4" = 1'-0"



SECTION VIEW OF TYPICAL CONCRETE PLINTH @ CANOPY COLUMNS

8 SECTION AT CANOPY COLUMN
3/4" = 1'-0"



PLAN VIEW OF TYPICAL CONCRETE PLINTH @ CANOPY COLUMNS

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	JT	AR	LMM	2024.04.11

Permit/Seal

Client/Project Logo

Client/Project
FORT BEND ISD

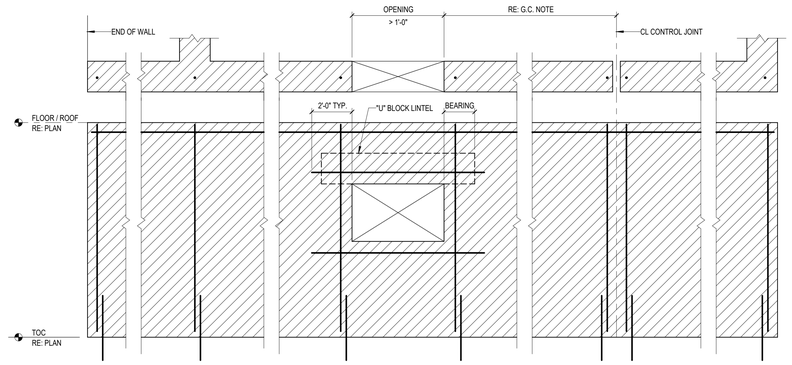
FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
SOG @ STRUCTURAL STEEL (GB / PIER)

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.

S402-HGES

*Plot location in Project Information
9/23/2025 8:39:56 AM
ORIGINAL SHEET - ARCH E1



TYPICAL REINFORCED MASONRY NOTES

TYPICAL HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE AS NOTED ON THE PLAN SHEET. ADDITIONAL REINFORCING SHALL BE AS FOLLOWS

1. (2) #6 VERTICAL REINFORCING BARS SHALL BE PROVIDED, CONTINUOUSLY FROM SUPPORT TO SUPPORT (FINISHED FLOOR TO ROOF) AT:

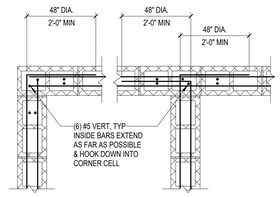
   A. WITHIN 8" OF EACH END OF WALL
   B. EACH WALL INTERSECTION
   C. WITHIN 16" OF EACH SIDE OF A MASONRY OPENING .
   D. WITHIN 8" OF EACH SIDE OF A MASONRY MOVEMENT JOINTS
   E. EACH CORNER OF THE BUILDING
   F. AT 16" OC, FULL HEIGHT

2. (2) #5 HORIZONTAL REINFORCING BARS SHALL BE PROVIDED AT:

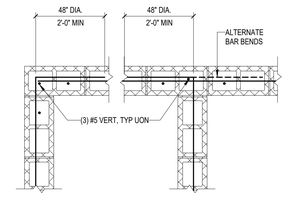
   A. TOP AND BOTTOM OF MASONRY OPENINGS
   B. FLOOR AND ROOF LEVELS, CONTINUOUS
   C. WITHIN 16" OF THE TOP OF MASONRY WALLS, CONTINUOUS.
   D. 8'-0" OC

GC NOTE:
DO NOT LOCATE CONTROL JOINTS WITHIN HALF THE LENGTH OF THE LINTEL (2'-0" MIN) ADJACENT TO THE ROUGH OPENING.

ALL HORIZONTAL REINFORCING WILL BE CONTINUOUS ACROSS CONTROL JOINTS

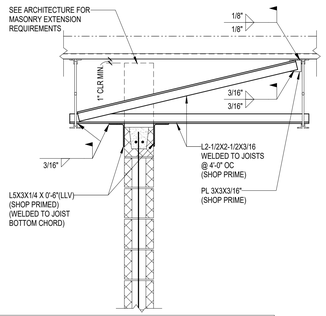


DOUBLE CURTAIN



SINGLE CURTAIN

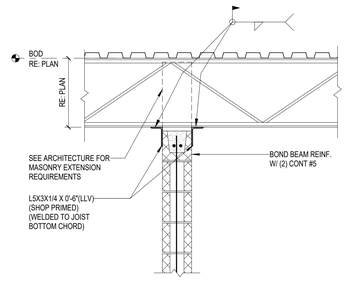
1 TYPICAL CMU WALL ELEVATION
3/4" = 1'-0"



NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

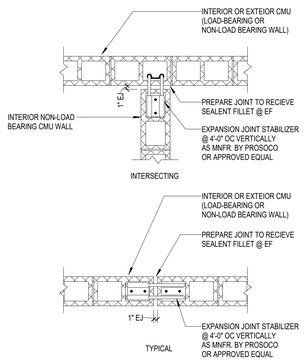
2 TYPICAL CMU WALL INTERSECTION
3/4" = 1'-0"



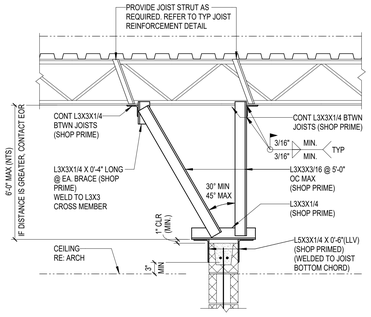
NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

3 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"

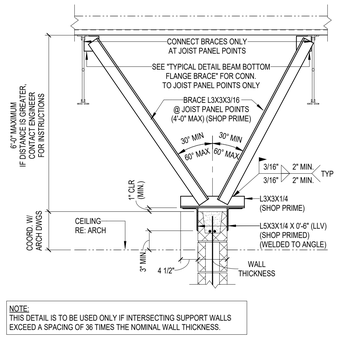


4 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"



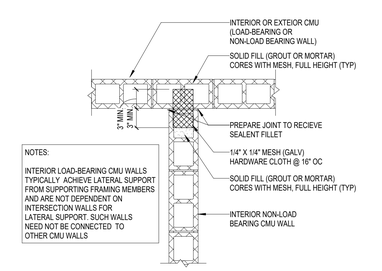
NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

5 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"



NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

6 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"

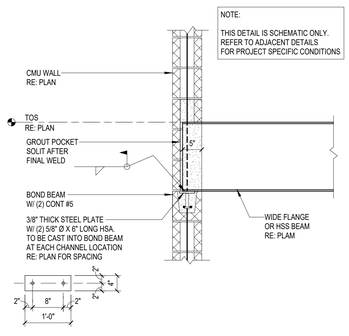


7 52A12 - Typical CMU Expansion Joint
3/4" = 1'-0"

13 MASONRY PILASTER DETAIL (MP1)
3/4" = 1'-0"

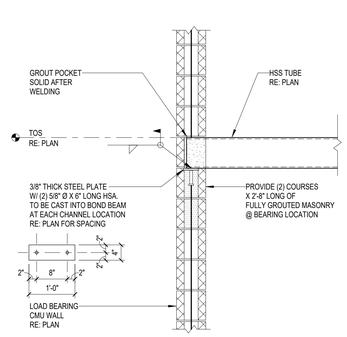
14 MASONRY PILASTER DETAIL (MP2)
3/4" = 1'-0"

15 MASONRY PILASTER DETAIL (MP3)
3/4" = 1'-0"

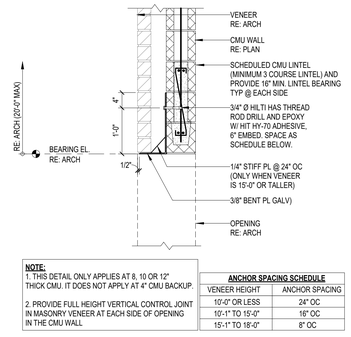


8 TYPICAL CMU EXPANSION JOINT
3/4" = 1'-0"

9 TYPICAL CMU @ CANOPY (BRICK)
3/4" = 1'-0"



10 TYPICAL LB CMU @ STL BM
3/4" = 1'-0"



NOTE:
1. THIS DETAIL ONLY APPLIES AT 8, 10 OR 12" THICK CMU. IT DOES NOT APPLY AT 4" CMU BACKUP.

2. PROVIDE FULL HEIGHT VERTICAL CONTROL JOINT IN MASONRY VENEER AT EACH SIDE OF OPENING IN THE CMU WALL

ANCHOR SPACING SCHEDULE	
VENEER HEIGHT	ANCHOR SPACING
10'-0" OR LESS	24" OC
10'-1" TO 15'-0"	16" OC
15'-1" TO 18'-0"	8" OC

11 TYPICAL LB CMU @ STL BM
3/4" = 1'-0"

12 CMU BRICK LINTEL
3/4" = 1'-0"

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9800 Richmond Avenue, Suite 600
Houston, Texas 77042
t 713 337 8861
Texas Registered Engineering Firm
F-003426
D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JT	AR	LMM 2024.04.11
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL

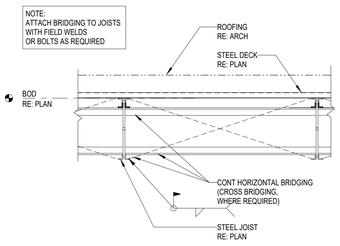
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

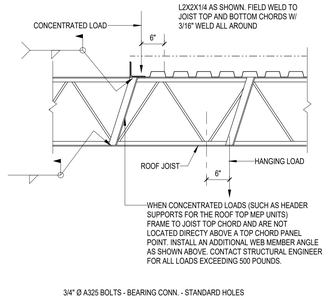
TYPICAL CMU WALL DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.
	S501-HGES

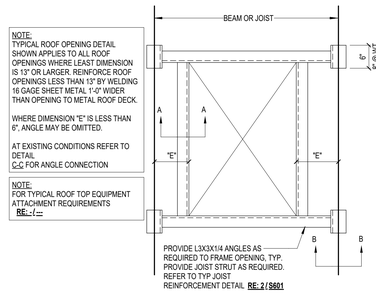
*Plot location in Project Information
9/25/2025 9:00:00 AM
ORIGINAL SHEET - ARCH E1



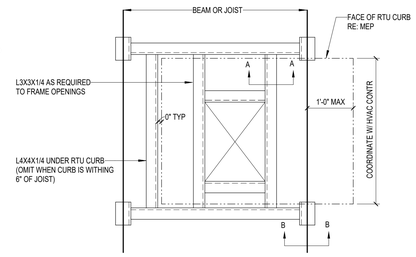
1 TYPICAL JOIST BRIDGING
3/4" = 1'-0"



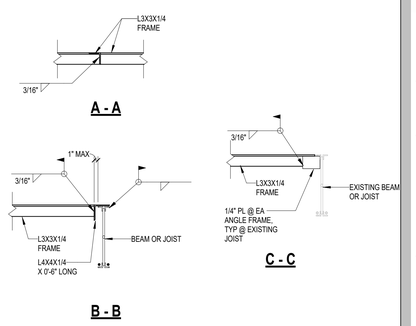
2 TYPICAL OFFSET LOAD JOIST SUPPORT
3/4" = 1'-0"



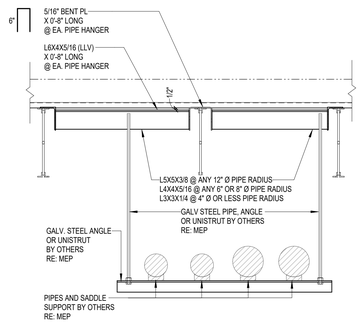
TYPICAL ROOF OPENING - PLAN VIEW



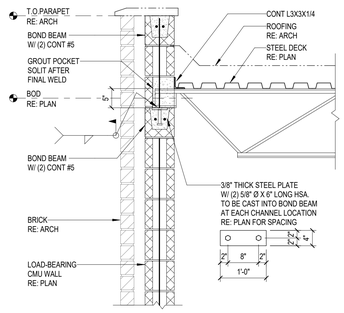
TYPICAL RTU SUPPORT DETAILS



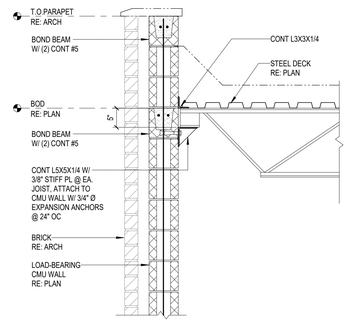
3 TYPICAL RTU CURB OPENING
3/4" = 1'-0"



4 TYPPICAL PIPE LOAD SECTION
3/4" = 1'-0"



5 LOAD BEARING CMU ROOF SECTION
3/4" = 1'-0"



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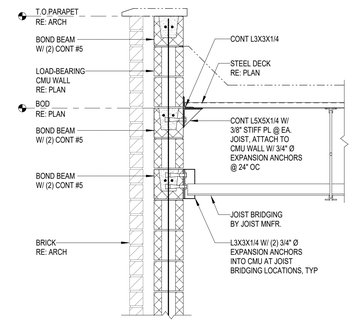
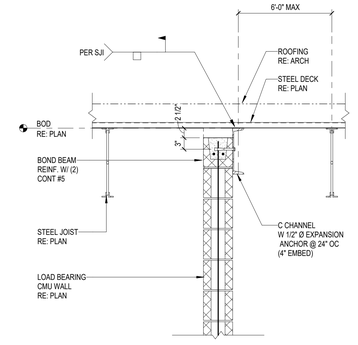


7 LOAD BEARING CMU ROOF SECTION
3/4" = 1'-0"



8 LOAD BEARING CMU INTERIOR
3/4" = 1'-0"

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t 713 337 8661
Texas Registered Engineering Firm F-003426
D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JT Dwn.	AR Dsgn.	LMM Chkd. 2024.04.11 YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - HUNTERS GLEN ELEMENTARY SCHOOL
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TYPICAL STEEL & CMU WALL ROOF DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.
	S601-HGES

*Plot location in Project Information
1/20/2025 9:58:03 AM
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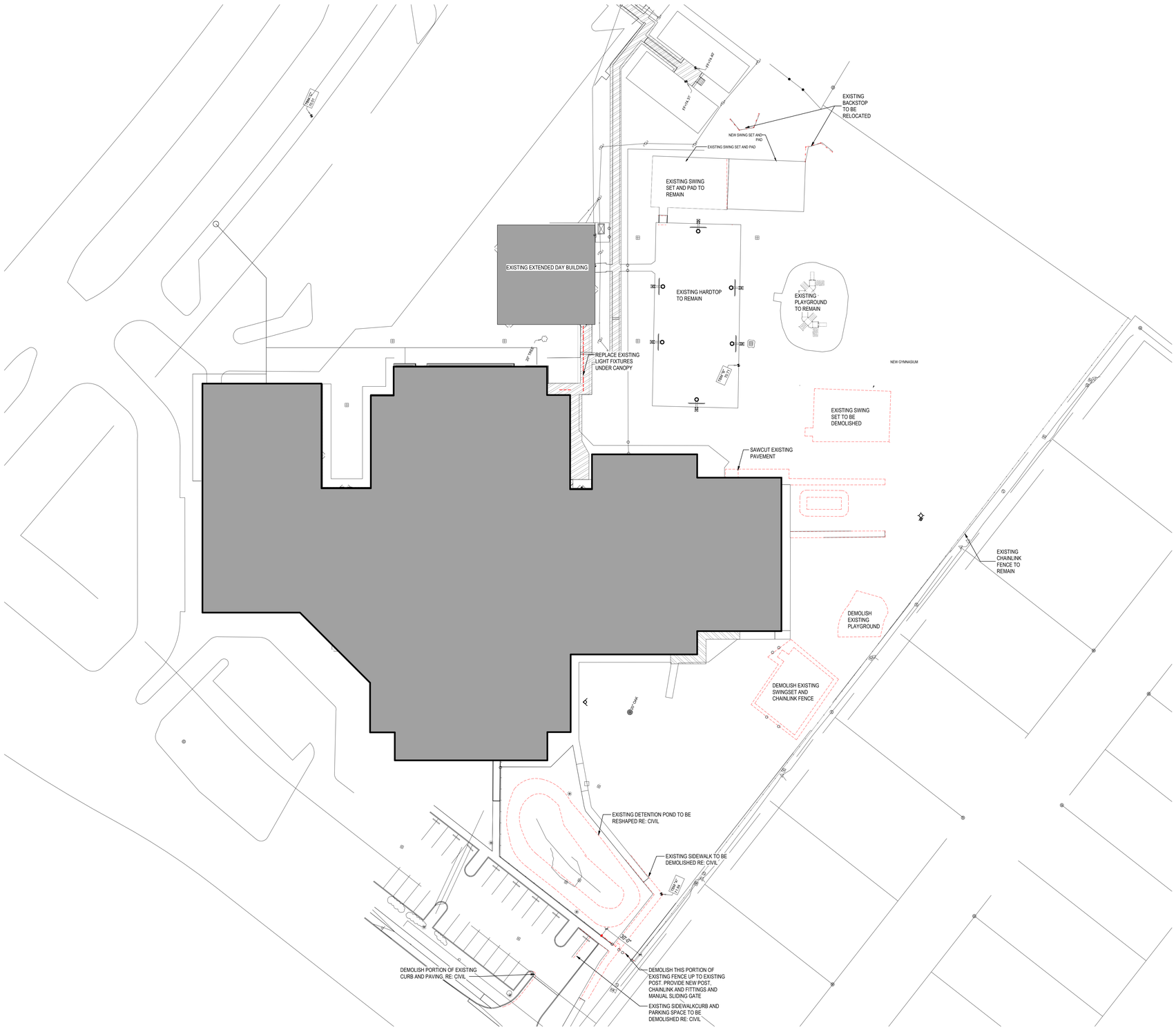

A1
ASD101
HGES

ARCHITECTURAL DEMOLITION SITE PLAN

1" = 30'-0"

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 12/03/24 YYYY.MM.DD

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REGISTERED ARCHITECT DANIELLE DUNN 38298 STATE OF TEXAS

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ARCHITECTURAL DEMOLITION SITE PLAN

Project No.	Scale
214001246	1" = 30'-0"
Revision	Drawing No.

ASD101 - HGES

#Pick location in Project Information>
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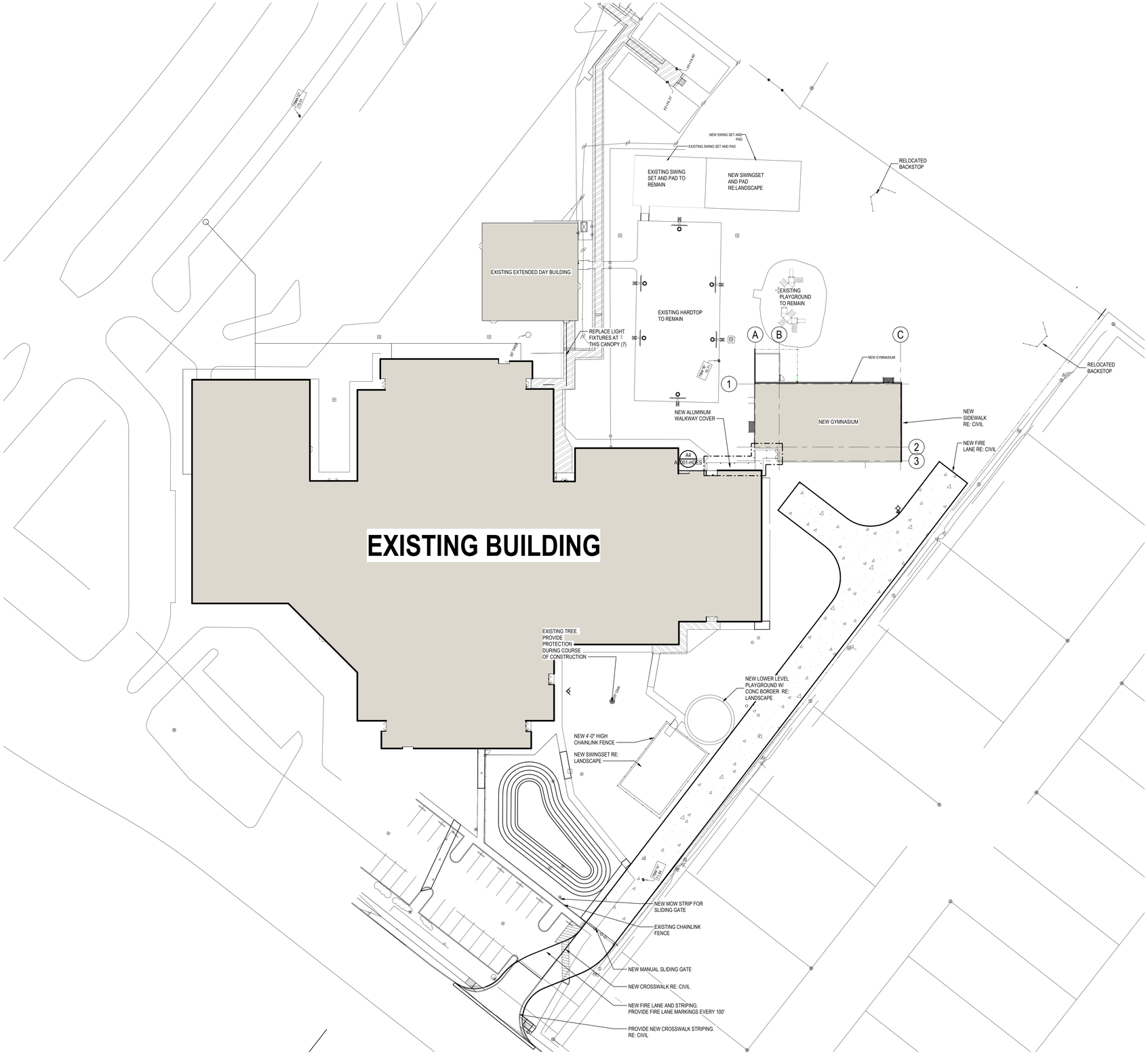

A1 AS101
HGES

ARCHITECTURAL SITE PLAN

1" = 30'-0"

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1/20/2025 5:56:51 AM

ORIGINAL SHEET - ARCH E1

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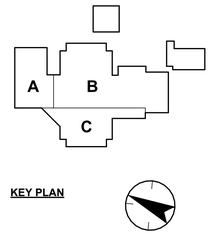

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/03/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT
DANIELLE DUNN
28298
STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

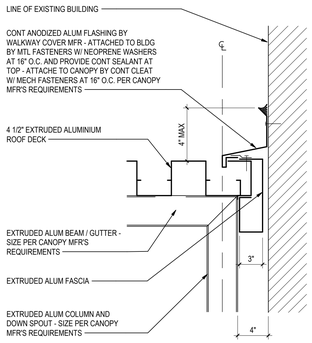
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

ARCHITECTURAL SITE PLAN

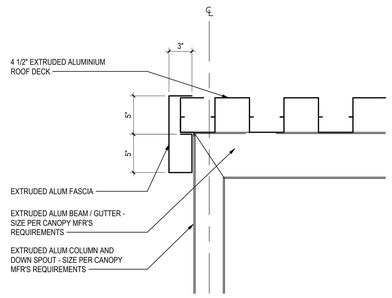
Project No.	Scale
214001246	1" = 30'-0"
Revision	Drawing No.

AS101 - HGES



C1 WALKWAY COVER DETAILS

AS001-HGES 1 1/2" = 1'-0"



B1 WALKWAY COVER DETAILS

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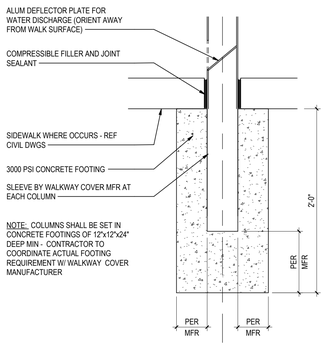

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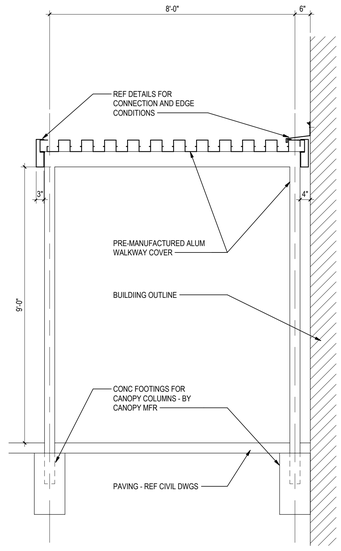
AS001-HGES 1 1/2" = 1'-0"



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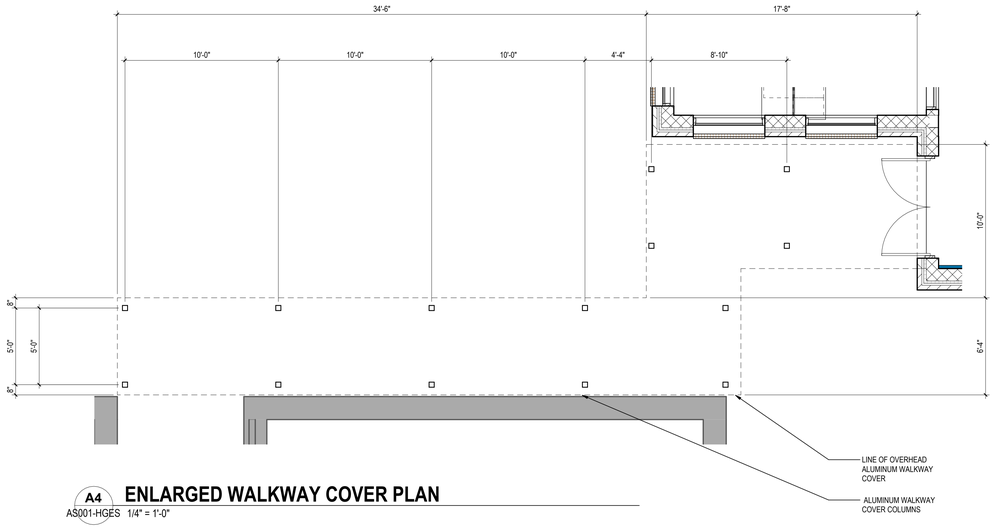

A4 ENLARGED WALKWAY COVER PLAN

AS001-HGES 1/4" = 1'-0"

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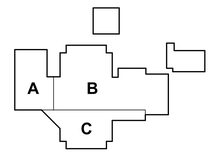

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/03/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT DANIELLE GUNN 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

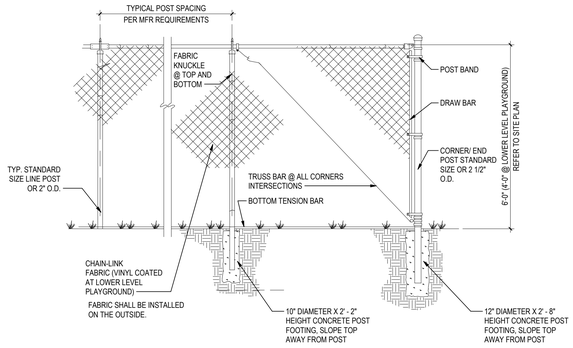
WALKWAY COVER DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AS001-HGES

<Plot Position in Project Information>
12/5/2025 8:37:07 AM

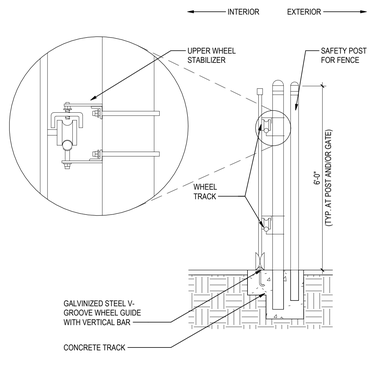
ORIGINAL SHEET - ARCH E1



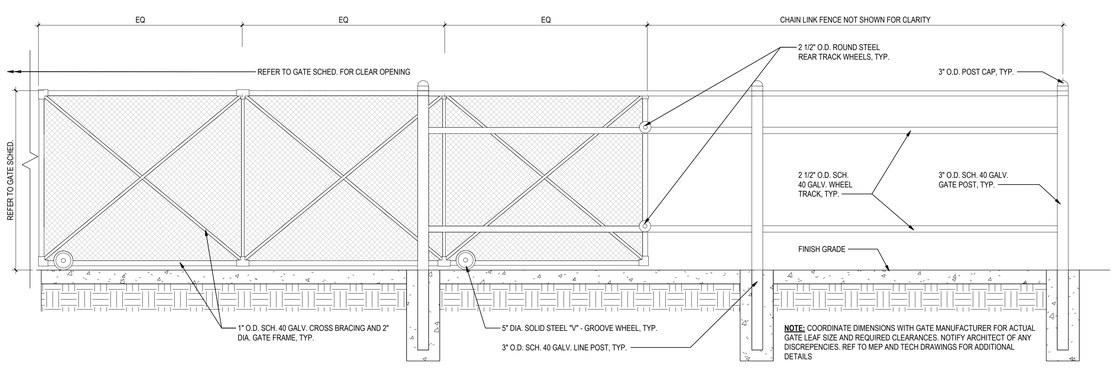
D1 / AS102 — **CHAINLINK GATE**

1/2" = 1'-0"

HGES



SECTION

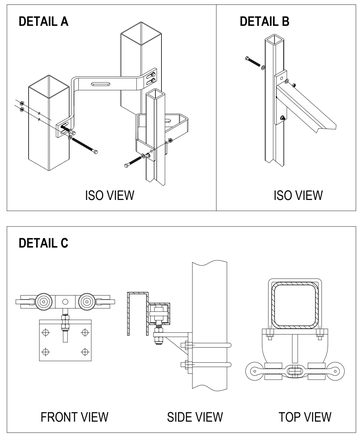


ELEVATION

B1 / AS102 — **SLIDING GATE DETAIL**

1/2" = 1'-0"

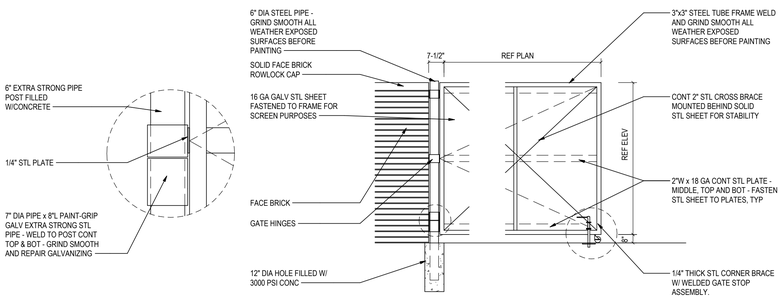
HGES



B3 / AS102 — **SLIDING GATE DETAIL-CONT**

3/8" = 1'-0"

HGES

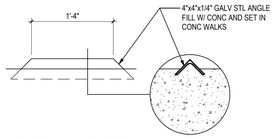


TYPICAL ELEVATION OF GATE/SCREEN WALL

A1 / AS102 — **SITE_GATE DETAILS**

3/4" = 1'-0"

HGES

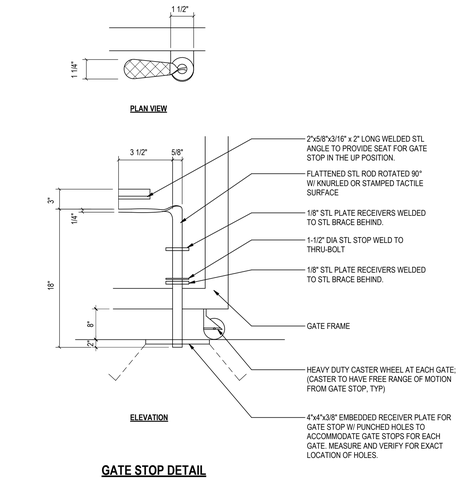


FOOT SCRAPER DETAIL

A2 / AS102 — **SITE_BOOT SCRAPER**

1" = 1'-0"

HGES



GATE STOP DETAIL

A3 / AS102 — **SITE_GATE STOP**

3/4" = 1'-0"

HGES

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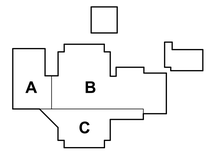


KEY PLAN

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	12/03/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2024 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

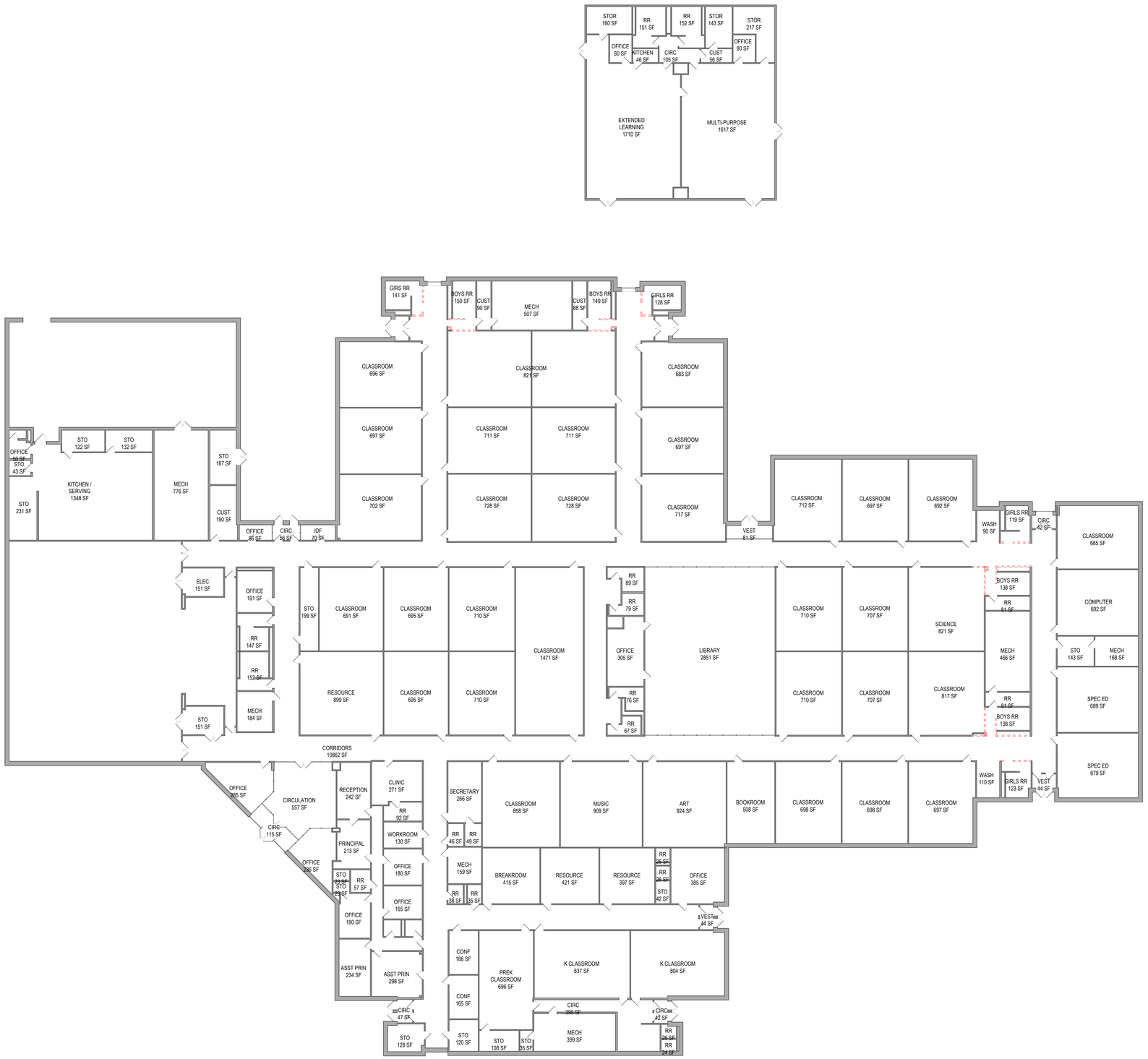
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ARCHITECTURAL SITE DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AS102 - HGES

ORIGINAL SHEET - ARCH E1



LEGEND

- EXISTING WALLS RO REMAIN
- EXISTING PARTITIONS TO BE DEMOLISHED

GENERAL DEMOLITION REQUIREMENTS

GENERAL:

1. VISIT THE SITE TO UNDERSTAND THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. REPORT DISCREPANCIES OR AMBIGUOUS ITEMS TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK.
3. COORDINATE DEMOLITION WORK WITH PLAN SHEETS AD100 & ASD100 REFER TO SHEET A501 FOR DOOR AND WINDOW FRAME TYPES AND DETAILS AT NEW OPENINGS IN EXISTING WALLS.
4. REFER TO CIVIL, STRUCTURAL, AND MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION REQUIREMENTS. PATCH WALLS WHERE FIXTURES AND EQUIPMENT ARE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACE.
5. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THE DEMOLITION AND NOT REUSED IN THE NEW CONSTRUCTION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
6. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF ADDITIONAL EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING UNDAMAGED CONDITION.
7. DEMOLITION WORK IS TO BE DONE IN PHASES. COORDINATE DEMOLITION WORK WITH CONSTRUCTION PHASING PLAN XXX.

STRUCTURAL INTEGRITY:

1. PROVIDE SHORING, BRACING, AND SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE PROJECT BEFORE CUTTING OR ALTERING ANY OPENING IN AN EXISTING LOAD BEARING OR NON-LOAD BEARING WALL, FOOTING, OR ROOF DECK.
2. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, PROVIDE TEMPORARY STEEL ANGLE MASONRY SUPPORT AT NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, WITH MINIMUM 8" BEARING.

CUTTING AND PATCHING:

1. PROVIDE MATERIALS FOR CUTTING AND PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN THAT BEING CUT OR PATCHED.
2. REMOVE EXISTING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. PATCH FLOORS, WALLS AND CEILINGS IN A RECTANGULAR PATTERN TO MATCH EXISTING CONDITIONS AND MAKE THEM READY TO RECEIVE ANY NEW FINISHES INDICATED.
3. CAP PLUMBING LINES THAT ARE TO BE REMOVED BELOW FLOOR OR BEHIND WALL, OR REMOVE THEM COMPLETELY. PATCH FLOORS AND WALLS TO MATCH EXISTING CONDITIONS. REFER PLUMBING DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
4. AT AREAS WHERE EXISTING FLOOR MOUNTED TOILET ROOM FIXTURES ARE TO BE REMOVED, ALSO REMOVE APPROXIMATELY 30 SF OF TILE FROM THE FLOOR AND 40 SF OF TILE FROM THE WALL. PREPARE THIS AREA TO RECEIVE NEW TILE. THE LAYOUT AND EXACT AMOUNT OF TILE TO BE REMOVED SHALL BE AT THE DIRECTION OF THE ARCHITECT.
5. AT AREAS WHERE EXISTING WALL MOUNTED TOILET ROOM FIXTURES ARE TO BE REMOVED, ALSO REMOVE APPROXIMATELY 40 SF OF TILE FROM THE WALL. PREPARE THIS AREA TO RECEIVE NEW TILE. THE LAYOUT AND EXACT AMOUNT OF TILE TO BE REMOVED SHALL BE AT THE DIRECTION OF THE ARCHITECT.
6. WHERE EXISTING FLOORING, CEILINGS OR WALL FINISHES ARE TO BE REMOVED AND REPLACED WITH NEW FINISHES, SURFACES TO REMAIN SHALL BE STRIPPED CLEAN OF ALL EXISTING FINISHES AND MADE READY TO RECEIVE NEW FINISHES.
7. INSPECT FLOORS TO RECEIVE NEW FINISHES PRIOR TO BID. COMPLETELY REMOVE FLOOR FINISHES TO BE REPLACED UON. CLEAN AND PROPERLY PREPARE THE EXISTING SUBSTRATE PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. STRIP, PATCH, AND FILL TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF BURRS AND ADHESIVE AND SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL. UNDER CUT OF DOORS TO ACCOMMODATE NEW FLOOR FINISH WHERE NEW FINISH IS THICKER THAN ORIGINAL FINISH.
8. WHERE NEW CONCRETE TOPPING IS TO BE PLACED OVER EXISTING CONCRETE SLAB, ABRADE EXISTING CONCRETE FINISH FOR BETTER BOND.
9. REMOVE FRAME AND PATCH WALL WITH SAME ADJACENT MATERIAL AND FINISH AS EXISTING WHERE EXISTING DOOR OPENINGS ARE TO BE SEALED. ALIGN NEW AND EXISTING WALLS (UON).
10. REMOVE EXPANSION JOINT COVERS (FLOOR, WALL, AND CEILING) THAT ARE DAMAGED DURING DEMOLITION AND REPLACE WITH NEW COVERS OF THE SAME TYPE AND FINISH (OR WITH NEW AS DETAILED, WHERE INDICATED).
11. COORDINATE WITH ROOF PLAN SHEET A133 AND DETAILS FOR SELECTED DEMOLITION OF ROOF AREAS.
12. EXISTING DOORS, FRAMES, AND HARDWARE THAT ARE REMOVED MAY BE REUSED, WHERE INDICATED ON PLANS, IF IN GOOD CONDITION IN THE OPINION OF THE ARCHITECT AND OWNER.
13. WHERE INDICATED, REMOVE TACKBOARDS, CHALKBOARDS, MISCELLANEOUS DISPLAY RAILS, AND TOILET ROOM ACCESSORIES. SALVAGE REMOVED ITEMS FOR OWNER OR REINSTALL AS INDICATED IN DRAWINGS AND SPECIFICATIONS. CLEAN AND PREPARE WALL AS REQUIRED FOR NEW EQUIPMENT OR TO RECEIVE A NEW FINISH.

A1 / AD100 — HGES

DEMOLITION ARCHITECTURAL FLOOR PLAN

1/16" = 1'-0"

ORIGINAL SHEET - ARCH E1

<PCK location in Project Information>
1/23/2025 5:34:06 AM

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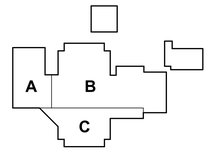
Notes



KEY PLAN

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	12/03/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE PUNCH — 28296 — STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ARCHITECTURAL DEMOLITION PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AD100 - HGES

ABBREVIATIONS:

#	NUMBER, POUNDS
%	PERCENT
&	AND
'	FOOT, FEET
"	INCH
@	AT
Ø	DIAMETER
℄	CENTER LINE
A	
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL TILE
ADA, ADAAG	AMERICANS WITH DISABILITIES ACT GUIDELINES
ADD	ADDENDUM
ADJ	ADJUSTABLE, ADJACENT
ADMIN	ADMINISTRATION, ADMINISTRATIVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERES
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY, APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AVG	AVERAGE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WALL PANEL
B	
BD	BOARD
BIT	BITUMINOUS
BK	BRICK
BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BO	BOTTOM OF
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF
C	
CAB	CABINET
CB	CHALKBOARD, CARPET BASE
CCD	COUNTER COILING DOOR
CF	CURTAIN FABRIC
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR, COLOR, COOLER
CLRM	CLASSROOM
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CS	CAST STONE, COUNTER SHUTTER
CT	CERAMIC TILE
CUST	CUSTODIAL
CW	CURTAIN WALL
D	
D	DEPTH, DEEP
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION, DIVIDE
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EP	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	EC CETERA
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED CEILING
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE & EQUIPMENT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FLDG PTN	FOLDING PARTITION
FLR	FLOOR
FO	FACE OF, FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBER REINFORCED PLASTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE-RETARDANT TREATED
FRTW	FIRE-RETARDANT TREATED WOOD
FT	FEET
FVC	FIRE VALVE CABINET
FWP	FABRIC WRAPPED PANELS
G	
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GL	GLASS
GLZ	GLAZING, GLAZED
GSU	GLAZED STRUCTURAL UNIT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
HB	HOSE BIBB
HC	HOLLOW CORE
HIWC	HIGH IMPACT WALL COVERING
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HR	HOUR, HOURS
HRDW	HARDWARE
HT	HEIGHT
HVAC	HEATING, VENTING & COOLING
HWD	HARD WOOD
I	
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIMENSION, INSIDE DIAMETER
IN	INCH, INCHES
INFO	INFORMATION
INSUL	INSULATION, INSULATING
INSUL GL	INSULATING GLASS
INT	INTERIOR
IPC	INTERNATIONAL PLUMBING CODE
IRWC	IMPACT-RESISTANT WALL COVERING
J	
JAN	JANITOR
JT	JOINT
L	
L	ANGLE, ANGLE SHAPE
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT
LH	LEFT HAND
LSD	LIQUID SOAP DISPENSER
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBH	MOP/BROOM HOLDER
MCJ	MASONRY CONTROL JOINT (CMU)
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEJ	MASONRY EXPANSION JOINT (BRICK MASONRY)
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFR REC	REC MANUFACTURER'S RECOMMENDATIONS
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING, MOTOR OPERATED
MOD	MODIFY
MOD BIT	MODIFIED BITUMEN
MS	MASONITE
MSB	MOP SERVICE BASIN
MTD	MOUNTED, MOUNTING
MTL	METAL
MU	MASONRY UNIT
MWK	MILLWORK
N	
N	NORTH
NA	NON APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER(S)
NOM	NOMINAL
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NTS	NOT TO SCALE
O	
OC	ON CENTER
OCC	OCCUPANCY
OCG	OVERHEAD COILING GRILL
OCS	OVERHEAD COILING FIRE SHUTTER
OD	OUTSIDE DIAMETER/DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
P	
P	PAINT
PAR	PARALLEL, PARAPET
PC	POLISHED CONCRETE
PCP	PORTLAND CEMENT PLASTER
PERP	PERPENDICULAR
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT, PAINTED
PR	PAIR
PRE-K	PREKINDERGARTEN
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PAINT, PAINTED
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
R	
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE, RUBBER BASE
RBF	RUBBER FLOORING / RUBBER STAIRS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE:	REFER
REBAR	REINFORCING BAR
REF	REFER, REFERENCE, REFRIGERATOR
REINF	REINFORCED, REINFORCEMENT
REQD	REQUIRED
REV	REVISION(S)
RF	RESILIENT FLOORING
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
RP	RESIN PANELS
RS	ROLLER SHADES
RSF	RESINOUS FLOORING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SC	SOLID CORE, STAGE CURTAIN, SEALED CONCRETE
SCHED	SCHEDULE
SCJ	SAWN CONTROL JOINT
SCR	SHOWER CURTAIN ROD
SCWD	SOLID CORE WOOD DOOR
SD	SMOKE DETECTOR
SDT	STATIC DISSIPATIVE TILE
SECT	SECTION
SF	SQUARE FEET, STOREFRONT
SFC	STRECTCHED FABRIC CEILING
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOC
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SOD	SECTIONAL OVERHEAD DOOR
SOSG	SELF OPENING SECURITY GRILL
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SYM	SYMETRICAL
T	
T	CERAMIC / PORCELAIN TILE / GLASS TILE
TAS	TEXAS ACCESSIBILITY STANDARDS
TB	TACKBOARD, CERAMIC / PORCELAIN TILE BASE
TEL	TELEPHONE
TEMP	TEMPERATURE
THRU	THROUGH
TLT	TOILET
TO	TOP OF
TOC	TOP OF CURB, TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TW	TACKWALL
TYP	TYPICAL
TZ	TERRAZO
U	
UL	UNDERWRITER'S LABORATORY
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
UR	URINAL
UR SCRN	URINAL SCREEN
UTIL	UTILITY
V	
V	VOLTS
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING
W	
W	WIDTH, WEST
W/	WITH
W/O	WITHOUT
WB	WINDOW BLINDS
WC	WATER CLOSET, WALL COVERING
WD	WOOD / WOOD VENEER
WDF	WOOD FLOORING
WDW	WINDOW
WF	WINDOW FILM
WH	WATER HEATER
WL	WIND LOAD
WP	WORKING POINT, WALL PAD
WS	WOOD STAIN
WT	WEIGHT
WWF	WELDED-WIRE FABRIC

MATERIAL LEGEND:

- EARTH (UNDISTURBED)
- EARTH (COMPACTED)
- POROUS FILL (STONE, GRAVEL, ETC.)
- CONCRETE
- BRICK (COMMON OR FACE)
- CONCRETE MASONRY UNITS (CMU)
- GLAZED STRUCTURAL UNIT (GSU)
- CUT STONE
- CUT CAST STONE
- STEEL (LARGE SCALE)
- STEEL (SMALL SCALE)
- ALUMINUM
- ACOUSTICAL PANEL CEILING
- TERRAZZO
- PLASTER, SAND, CEMENT, GROUT
- GYPSUM DRYWALL
- CERAMIC TILE
- GLASS
- RIGID INSULATION
- SPRAY FOAM INSULATION
- BATT INSULATION
- TAPERED INSULATION
- ROUGH WOOD (CONTINUOUS)
- ROUGH WOOD (NON-CONTINUOUS)
- FINISH WOOD 1
- FINISH WOOD 2
- PLYWOOD
- CORK
- EXPANSION MATERIAL
- FLEX
- GROUT
- MORTAR
- PARTICLE BOARD
- PLASTIC

RENOVATION GRAPHICS:

DOOR SWING INDICATION

NEW DOOR | EXISTING DOOR TO REMAIN | EXISTING DOOR TO BE REMOVED

WALL INDICATION (RE: WALL TYPES FOR WALL CONSTRUCTION)

NEW WALL | EXISTING WALL TO REMAIN | EXISTING WALL TO BE REMOVED

REFERENCE TAGS AND SYMBOLS:

COLUMN LINES

EXISTING X — NEW X

LETTER OR NUMBER INDICATES COLUMN LINE(S)

NORTH ARROW

N — PLAN NORTH; MAGNETIC NORTH

DRAWING / DETAIL TITLE

A1 / A300 — DETAIL NUMBER; SHEET WHERE DETAIL IS DRAWN

NOTE: DRAWING TITLE MAY NOT APPEAR ON LARGE SCALE DETAIL DRAWINGS

BUILDING SECTION TAG

A1 / A211 — SECTION NUMBER; SHEET WHERE DETAIL IS DRAWN

EXTERIOR ELEVATION TAG

A1 / A201 — ELEVATION NUMBER; SHEET WHERE DETAIL IS DRAWN

KEYNOTES

C01 — KEYNOTE SEQUENCE; KEYNOTE CATEGORY

TEXT LEADER

INFORMATION TEXT

DIMENSION LINE

5'-0" — DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY

ROOM NAME AND NUMBER

ROOM NAME: D123 — ROOM IDENTIFICATION NUMBER; AREA WHERE ROOM IS FOUND

PARTITION TAG

XX — PARTITION REFERENCE TYPE

DOOR TAG

D100A — LETTER IF ROOM HAS MULTIPLE DOORS; ROOM AREA AND NUMBER WHERE DOOR IS FOUND

FRAME TAG

A1 — FRAME IDENTIFICATION NUMBER; FRAME MATERIAL

ELEVATION DATUM

WALL SECTION / DETAIL TAG

ELEVATION: A1 / A301 — DETAIL NUMBER; SHEET WHERE DETAIL IS DRAWN

PLAN: A1 / A301

ENLARGED PLAN DETAIL

A1 / A400 — RE: NOTES FOR DETAIL CUTS

INTERIOR ELEVATION TAG

A1, A2, A3, A4 / A821 — INTERIOR ELEVATION NUMBER; SHEET WHERE INTERIOR ELEVATION IS DRAWN

A1/A821

CEILING TAG

APC1 10'-0" — CEILING TYPE, REF: INTERIOR MATERIAL SCHEDULE; CEILING HEIGHT ABOVE ASSOCIATED LEVEL

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker
	Dwn.	Dsgn.	Chkd.
			11/20/15 YYYY.MM.DD

KEY PLAN

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ABBV., MATERIAL LEGEND AND SYMBOLS

Project No.	Scale
214001246	As indicated

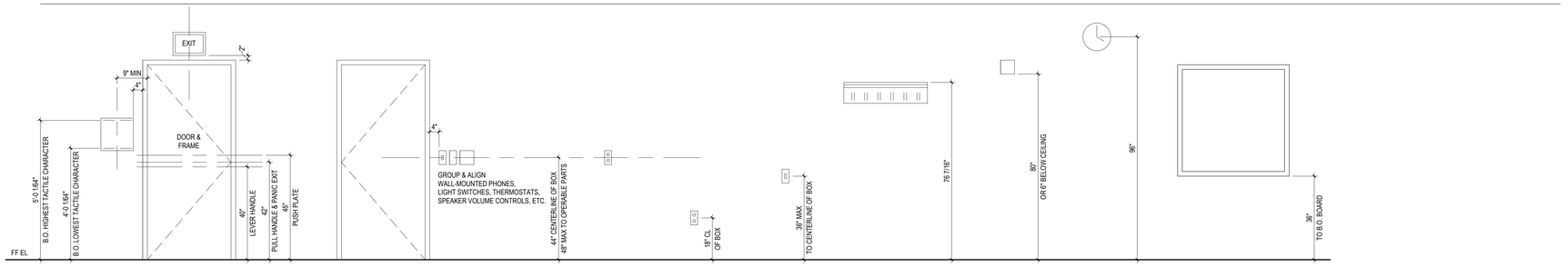
Revision | Drawing No.

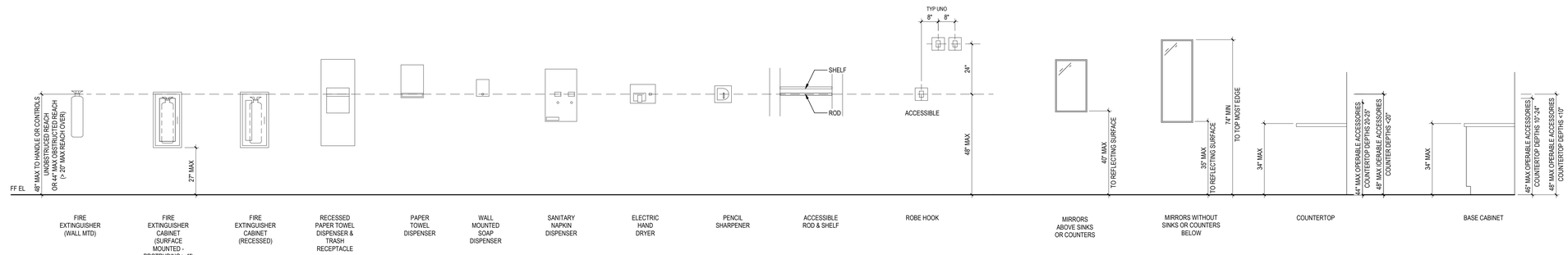
A001 - HGES

<Pick location in Project Information>
1/20/2025 5:56:03 AM

ORIGINAL SHEET - ARCH E1

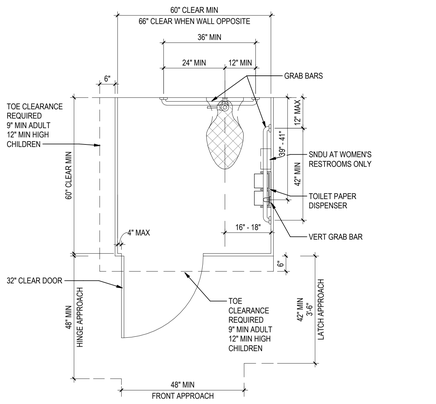
TYPICAL MOUNTING HEIGHTS





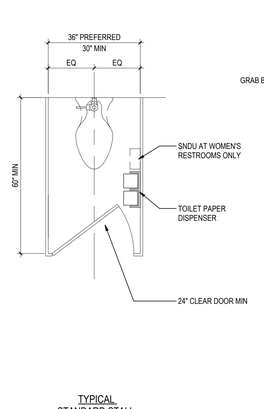
NOTE: COORDINATE ALL ELECTRICAL ITEMS W/ CASEWORK, DISPLAY BOARDS, MIRRORS & ACOUSTICAL MATERIAL AS INDICATED ON THE PLANS, CASEWORK ELEVATIONS & INTERIOR ELEVATIONS (TYP).

TYPICAL TOILET ROOM LAYOUTS

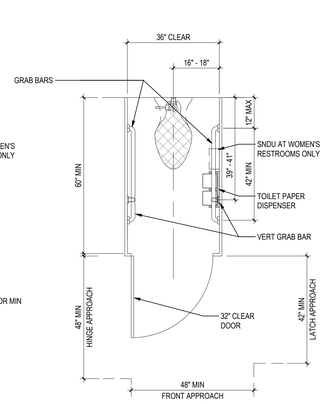


TYPICAL NOTES:
1. REFER SIDE AND FRONT ELEVATIONS.
2. REFER TO PLUMBING DRAWINGS FOR LOCATION OF FLUSH VALVE PIPING.
3. FLUSH VALVE CONTROLS ON WIDE SIDE OF TOILET AREA.
4. PARTITION BOTTOM SHALL BE 9" MIN ADULT, 12" MIN CHILDREN AFF.

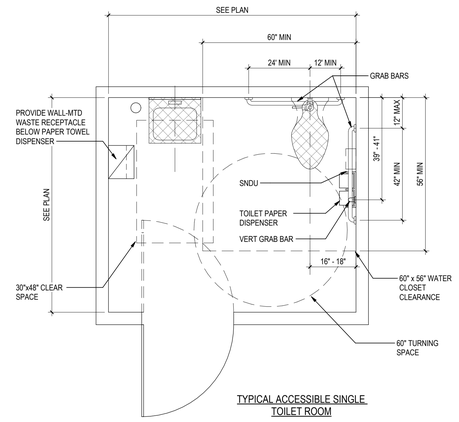
TYPICAL END OF ROW ACCESSIBLE STALL



TYPICAL STANDARD STALL

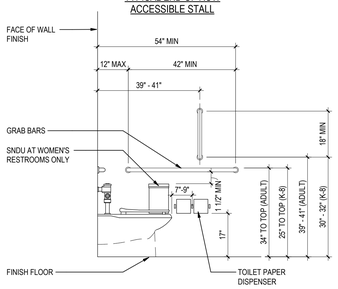


TYPICAL AMBULATORY STALL

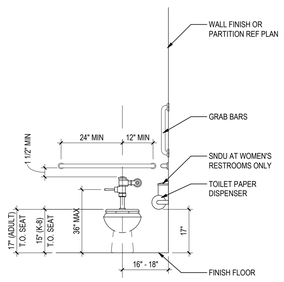


TYPICAL ACCESSIBLE SINGLE TOILET ROOM

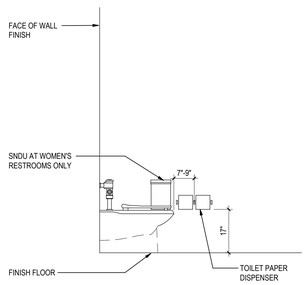
TYPICAL NOTES:
1. GRAB BARS ARE PERMITTED TO BE MOUNTED 33"-36" TO TOP OF BAR WHEN REQUIRED TO ACCOMODATE ACCESSORY CONFLICTS.
2. TOILET PAPER DISPNSERR PERMITTED TO BE MOUNTED 15"-48" TO POINT OF OUTLET WHEN REQUIRED TO MAINTAIN 1 1/2" GRAB BAR CLEARANCES.



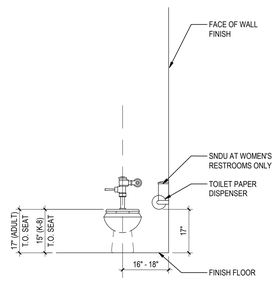
TYPICAL SIDE WALL ELEVATION AT ACCESSIBLE TOILET



TYPICAL ELEVATION AT ACCESSIBLE TOILET

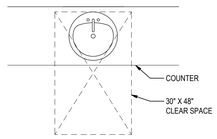


TYPICAL SIDE WALL ELEVATION AT STANDARD TOILET

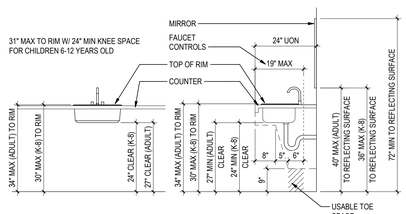


TYPICAL ELEVATION AT STANDARD TOILET

TYPICAL ACCESSIBLE LAVATORY



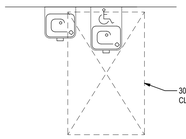
TYPICAL PLAN (COUNTER-MOUNTED)



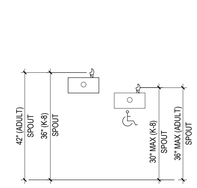
TYPICAL FRONT ELEVATION

TYP SIDE ELEVATION

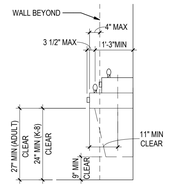
TYPICAL DRINKING FOUNTAINS



TYPICAL PLAN

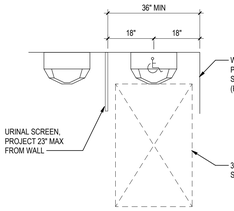


TYPICAL FRONT ELEVATION

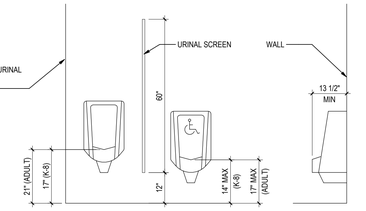


TYP SIDE ELEVATION

TYPICAL URINAL LAYOUT



TYPICAL PLAN



TYPICAL FRONT ELEVATION

TYP SIDE ELEVATION

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Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 09/15/17 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE HUNTER 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TYPICAL MOUNTING HEIGHTS AND TOILET LAYOUT

Project No.	Scale
214001246	1/2" = 1'-0"
Revision	Drawing No.
	A002 - HGES

ORIGINAL SHEET - ARCH E1

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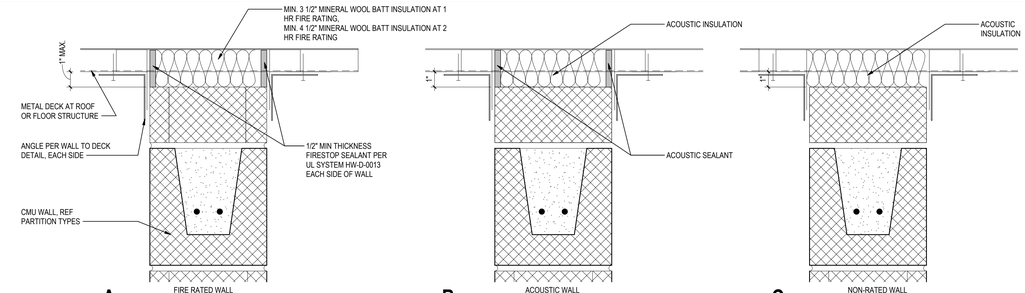


A FIRE RATED WALL (PARALLEL OR PERPENDICULAR TO DECK) — **UL NO. HW-D-0013**

B ACOUSTIC WALL (PARALLEL OR PERPENDICULAR TO DECK)

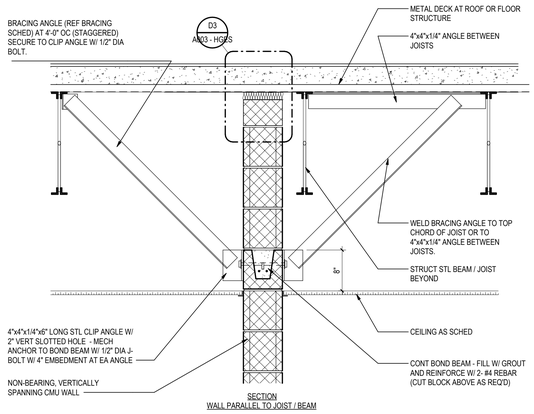
C NON-RATED WALL (PARALLEL OR PERPENDICULAR TO DECK)

ITEMS LISTED AT B AND C ARE REVISIONS TO THOSE NOTED AT CONDITION A

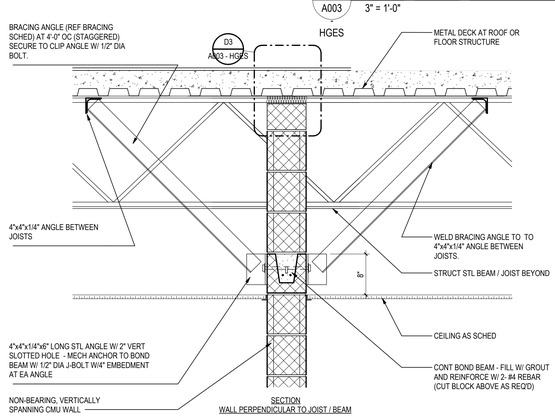
D3 / A003 — A022_Walls_Head-CMU

3" = 1'-0"

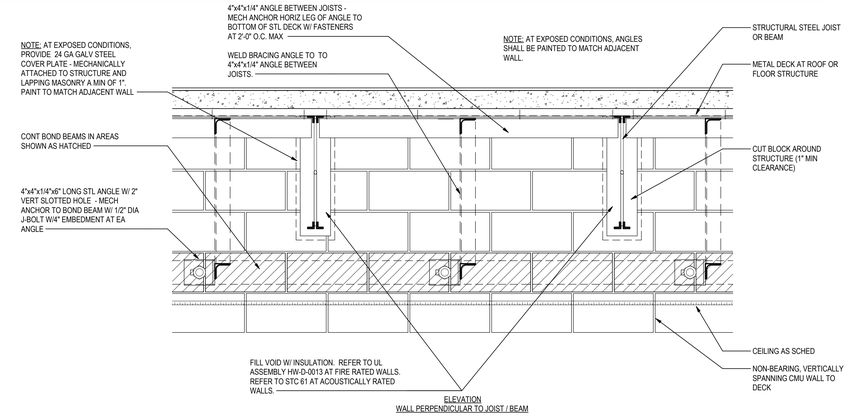
HGES



SECTION
WALL PARALLEL TO JOIST / BEAM



SECTION
WALL PERPENDICULAR TO JOIST / BEAM

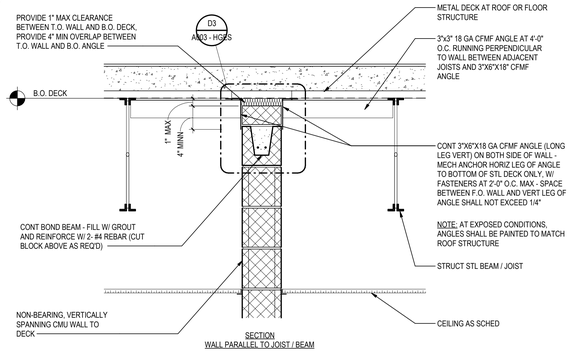


ELEVATION
WALL PERPENDICULAR TO JOIST / BEAM

C1 / A003 — A022_Wall2Deck-CMU_VERT SPAN_02

1" = 1'-0"

HGES



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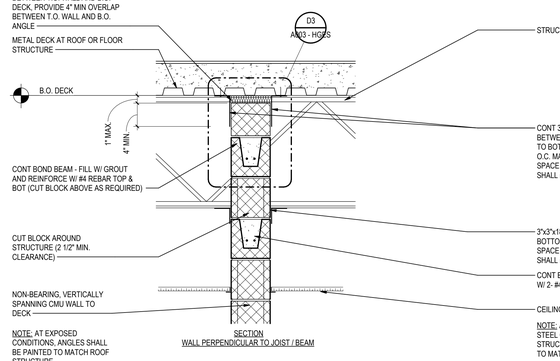
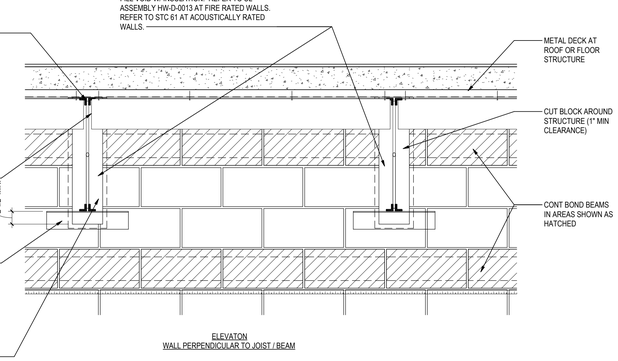
WALL PARALLEL TO JOIST / BEAM



SECTION
WALL PERPENDICULAR TO JOIST / BEAM

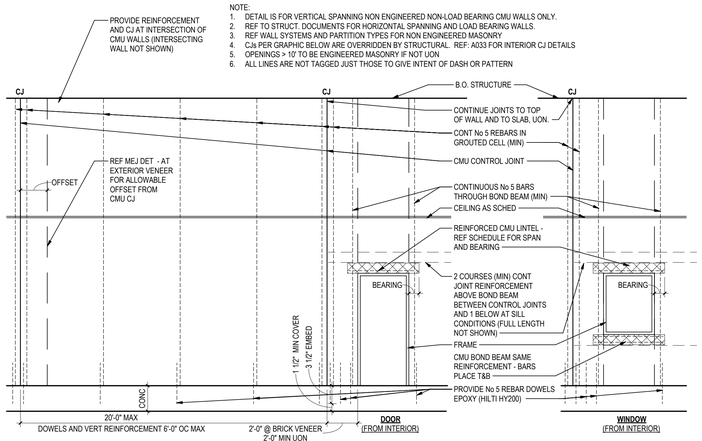


ELEVATION
WALL PERPENDICULAR TO JOIST / BEAM

B1 / A003 — A022_Wall2Deck-CMU_VERT SPAN_01

1" = 1'-0"

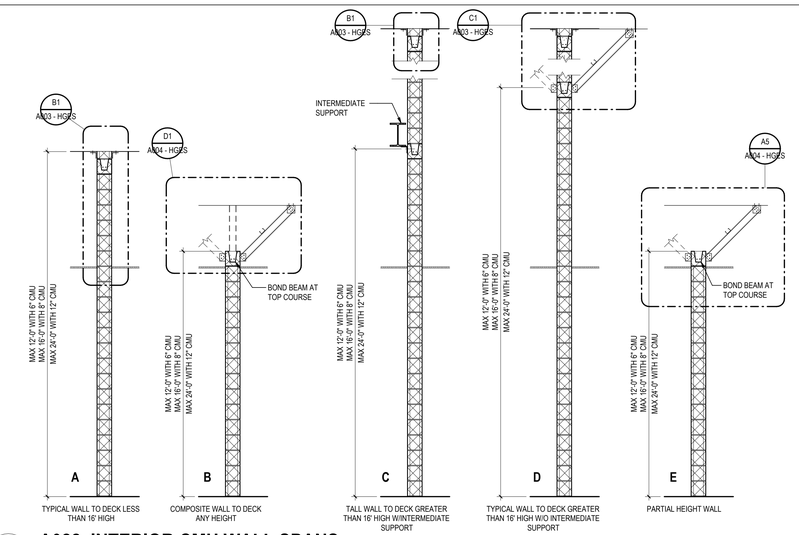
HGES



A1 / A003 — A022_CMU WALL OPENINGS / CJs / DOWEL

1" = 1'-0"

HGES



A2 / A003 — A022_INTERIOR CMU WALL SPANS

3/8" = 1'-0"

HGES

CONSTRUCTION NOTES - INTERIOR CMU:

1. PROVIDE INTERMEDIATE BRACING FOR FULL-HEIGHT INTERIOR CMU WALLS EXCEEDING MAX VERTICAL SPAN HEIGHT AS INDICATED IN WALL SPAN DIAGRAMS.
2. PROVIDE DEFLECTION CONNECTION AT TOPS OF ALL CMU WALLS. FIRESTOP FIRE-RATED WALLS AND INSTALL ACOUSTICAL SEALANT AT ACOUSTICAL WALLS.
3. PROVIDE CJ'S AS REQUIRED SO THAT DISTANCE BETWEEN JOINTS DOES NOT EXCEED 25' - 0". SEE FLOOR PLANS AND ELEVATIONS FOR LOCATIONS. COORDINATE ADDITIONAL LOCATIONS WITH ARCHITECT.
4. ALL MASONRY WALLS ARE ASSUMED TO SPAN VERTICALLY.
5. REFER DOWEL SPACING ON CJ

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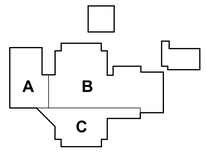

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DINH — 28296 — STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
WALL SPANS EXTERIOR

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A003 - HGES

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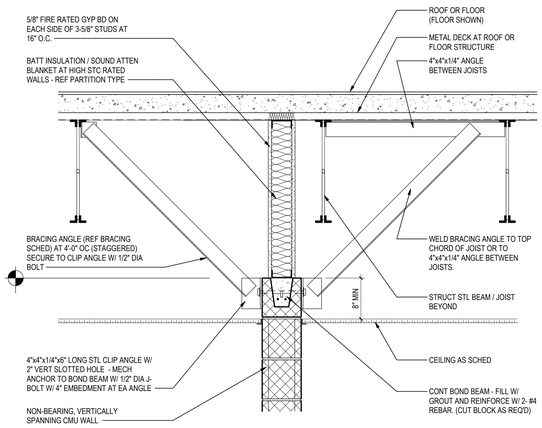
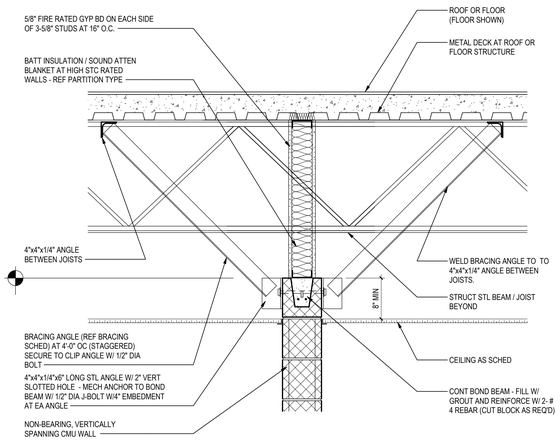
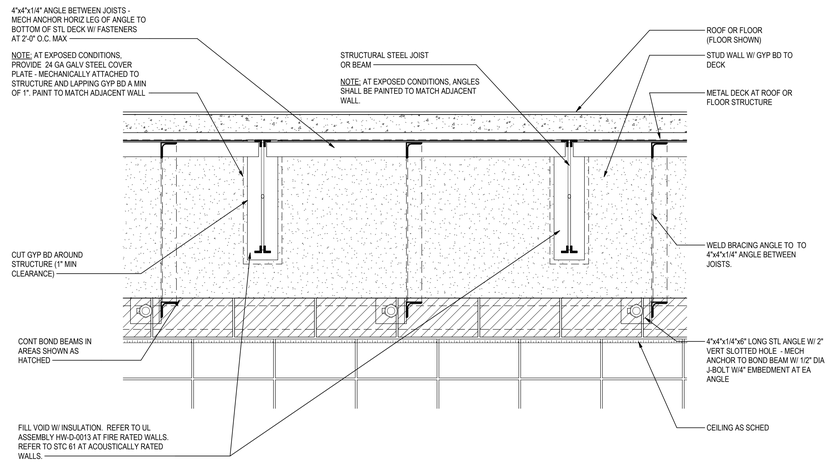


SECTION
WALL PARALLEL TO JOIST / BEAM



SECTION
WALL PERPENDICULAR TO JOIST / BEAM

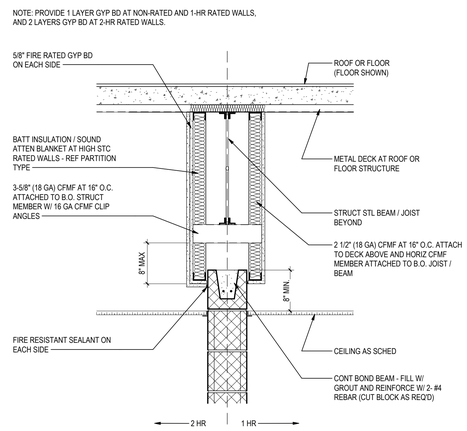


ELEVATION
WALL PERPENDICULAR TO JOIST / BEAM

D1 / A004 — A022_Wall2Deck-CMU_VERT SPAN_03

1" = 1'-0"

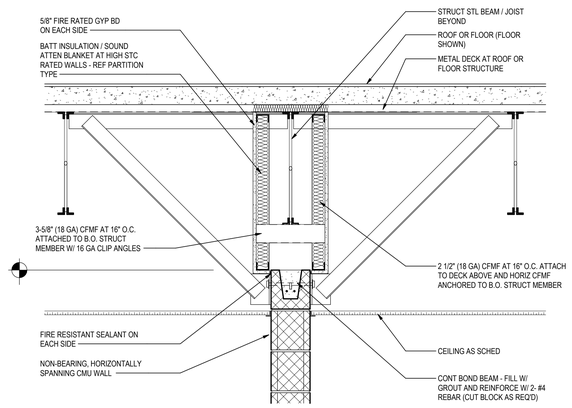
HGES



B1 / A004 — A022_Wall2Deck-CMU_VERT SPAN_06

1" = 1'-0"

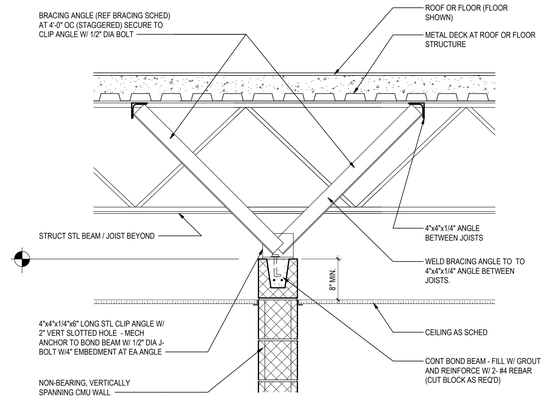
HGES



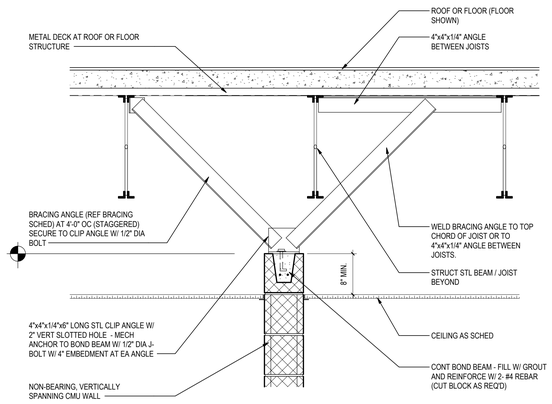
B2 / A004 — A022_Wall2Deck-CMU_VERT SPAN_04

1" = 1'-0"

HGES



SECTION
WALL PERPENDICULAR TO JOIST / BEAM



SECTION
WALL PARALLEL TO JOIST / BEAM

A5 / A004 — A022_Wall2Deck-CMU_VERT SPAN_05

1" = 1'-0"

HGES

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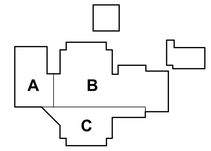

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT DANIELLE DUNN 28298 STATE OF TEXAS

Client/Project Logo

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Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

WALL SPANS INTERIOR AND WALL TO DECK DETAILS

Project No.	Scale
214001246	1" = 1'-0"
Revision	Drawing No.

A004 - HGES

<Plot location in Project Information>
1/20/2025 5:44:56 AM

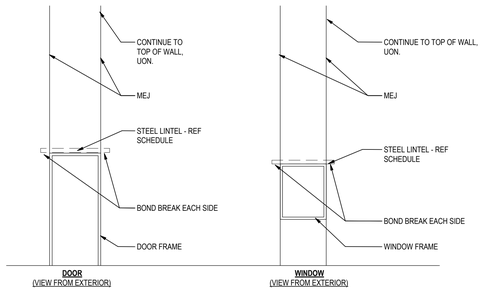
ORIGINAL SHEET - ARCH E1

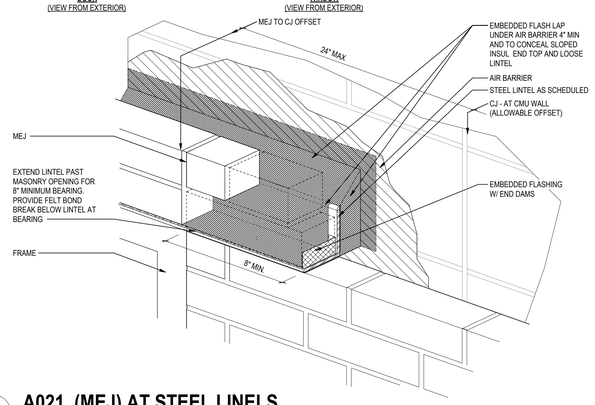
CONSTRUCTION NOTES - EXTERIOR MASONRY VENEER :

1. FURNISH GALV. LOOSE STEEL LINTELS ABOVE ALL OPENINGS PER LINTEL TABLE (REF STRUCTURAL DOCUMENTS).
2. INSTALL MEJs AT DOOR AND WINDOW OPENINGS PER "OPENINGS IN MASONRY VENEER" BELOW, UNLESS SHOWN OTHERWISE ON EXTERIOR ELEVATIONS.
3. REF EXTERIOR ELEVATIONS FOR ALL OTHER LOCATIONS OF EXTERIOR VENEER MEJs.

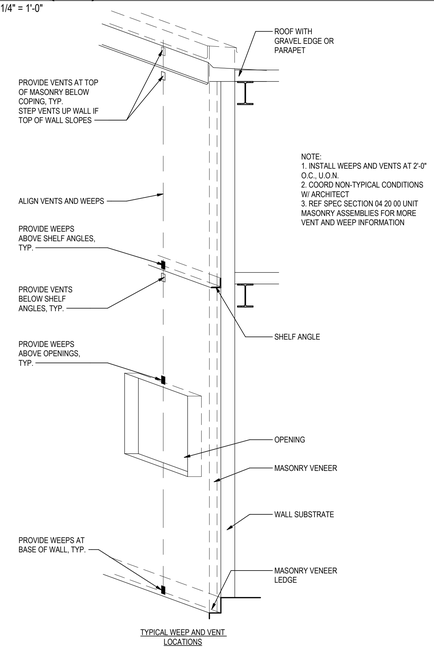
LOOSE STEEL ANGLE LINTEL FOR MASONRY VENEER

CLEAR SPAN	EXTERIOR ANGLES FOR 4" MASONRY	NOTES
4'-0" OR LESS	3.5 x 3.5 x 1/4	1. PROVIDE 8" MINIMUM BEARING FOR ALL STEEL ANGLE LINTELS. PROVIDE CONTINUOUS LINTEL ANGLES BETWEEN ADJACENT EXTERIOR OPENINGS SEPARATED BY 2'-0" OR LESS. 2. THIS TABLE APPLIES ONLY TO NON-LOAD BEARING WALLS. ANY LINTELS IN LOAD BEARING WALLS SHALL BE AS NOTED ON ARCHITECTURAL OR STRUCTURAL DETAIL SECTIONS. 3. IN THE CASE OF MASONRY VENEER WALLS WITH BLOCK BACK-UP, THE LINTEL FOR THE VENEER SHALL BE SELECTED FROM THIS TABLE. REFER TO CONCRETE BLOCK LINTEL SCHEDULE FOR THE BACK-UP LINTELS. 4. PROVIDE HORIZONTAL EXPANSION JOINTS AT EACH END OF MASONRY VENEER LINTELS REF DTL C1 ON THIS PAGE. 5. MEMBER SIZES INDICATED WITHIN THIS TABLE SHALL ONLY SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THIS SET AND SHALL NOT SUPERSEDE MEMBER SIZES EXPLICITLY NOTED ON SECTIONS, DETAILS OR STRUCTURAL DRAWINGS. 6. ALL LINTEL ANGLES SHALL BE INSTALLED W/ LONG LEG VERTICAL UON.
6'-0" OR LESS	4 x 4 x 1/4	
8'-0" OR LESS	7 x 4 x 3/8	
10'-0" OR LESS	7 x 4 x 3/8	





C1 A005 — **A021_(MEJ) AT STEEL LINELS**
1/4" = 1'-0"
HGES

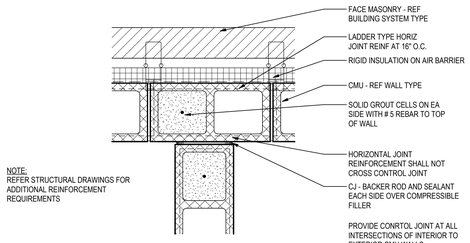


TYPICAL WEEP AND VENT LOCATIONS

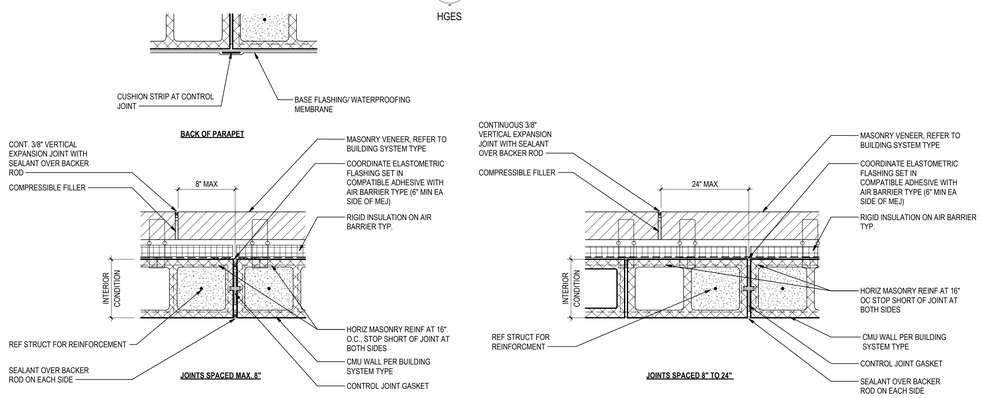
A1 A005 — **A021_WEEP AND VENT LOCATIONS**
3/8" = 1'-0"
HGES

CONSTRUCTION NOTES - EXTERIOR CMU SUBSTRATE:

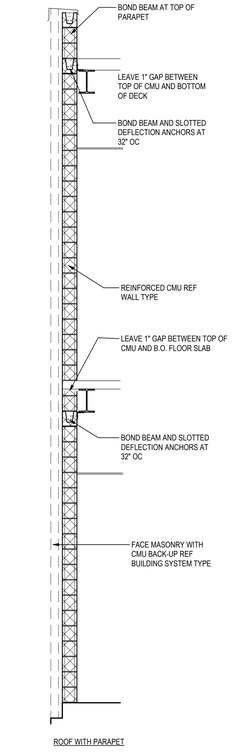
1. REINFORCE EXTERIOR LOAD BEARING AND NON-LOAD BEARING CMU WALLS PER STRUCTURAL DRAWINGS.
2. INSTALL CONTROL JOINTS AT OPENINGS:
   A. INTERIOR WALLS - PER "CMU CONTROL JOINT DETAIL" - REF TO C3/ A005 - HGES
   B. EXTERIOR CMU WALLS PER MEJ
3. INSTALL MASONRY EXPANSION JOINTS (MEJ) AT OPENINGS PER D1/A021.
4. EXTEND JOINT REINFORCING THROUGH WALL INTERSECTIONS PER "CMU WALL INTERSECTION" DETAIL.



D4 A005 — **A021_CMU (CJ) CONTROL JOINT - WALL INTERSECTION**
1 1/2" = 1'-0"
HGES



C3 A005 — **A021_CMU (MEJ) MASONRY EXPANSION JOINT - FIELD OF WALL**
1 1/2" = 1'-0"
HGES



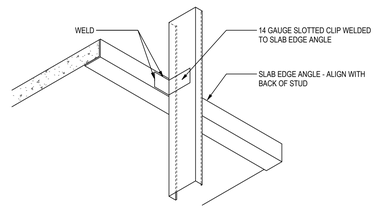
ROOF WITH PARAPET

C5 A005 — **A021_CMU DEFLECTION CONNECTIONS**
3/8" = 1'-0"
HGES

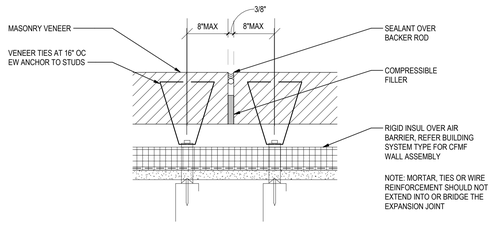
CONSTRUCTION NOTES - EXTERIOR CFMF SUBSTRATE:

UNLESS DESIGNED AND DETAILED OTHERWISE AND SHOWN ON SEALED ENGINEERING DRAWINGS, CONSTRUCT EXTERIOR CFMF WALLS AS FOLLOWS:

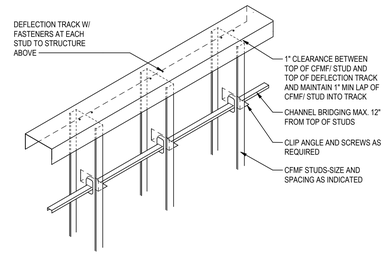
1. STUD WIDTH, THICKNESS, AND SPACING AS SHOWN ON WALL TYPES IS INTENDED AS THE MINIMUM REQUIREMENT.
2. BRACE CURTAIN WALL STUDS TO EDGES OF FLOOR AND ROOF FRAMING WITH DEFLECTION CLIPS AS SHOWN IN "CFMF DEFLECTION CONNECTIONS" BELOW.
3. FURNISH CFMF BOX BEAM HEADERS ABOVE ALL OPENINGS PER "CFMF BOX BEAM HEADER" DETAIL ON SHEET A023.
4. FURNISH MULTIPLE STUDS AT JAMBS OF ALL OPENINGS PER "DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE" ON SHEET A023.
5. INSTALL BRIDGING AS REQUIRED BY ENGINEERED DRAWINGS.
6. INSTALL CONTROL JOINTS AT DOOR AND WINDOW OPENINGS IN CFMF WALLS PER "OPENINGS IN CFMF WALLS" ON SHEET A023.



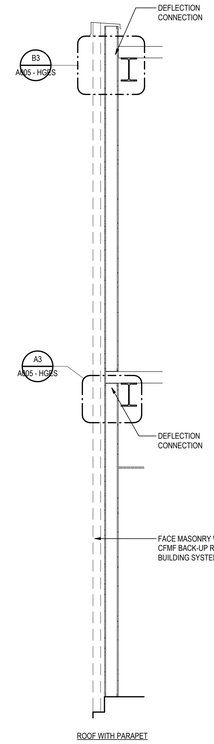
B3 A005 — **A021_EDGE OF SLAB DEFLECTION CLIP**
1" = 1'-0"
HGES



A2 A005 — **A021_CFMF (MEJ) MASONRY EXPANSION JOINT**
3" = 1'-0"
HGES



A3 A005 — **A021_CFMF DEFLECTION TRACK**
1" = 1'-0"
HGES



ROOF WITH PARAPET

A4 A005 — **A021_CFMF DEFLECTION CONNECTIONS**
3/8" = 1'-0"
HGES

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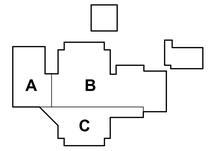
Consultant

Notes



KEY PLAN

No.	Revision	By	Appd	Date
1	Revision 1			YYYY.MM.DD

Revision

100% ISSUE FOR BID AND PERMIT			2025.09.24.
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	12/07/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
WALL SPANS EXTERIOR

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
1	A005 - HGES

<Plot location in Project Information>
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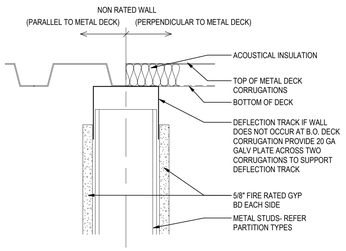
ORIGINAL SHEET - ARCH E1



NON-RATED WALL

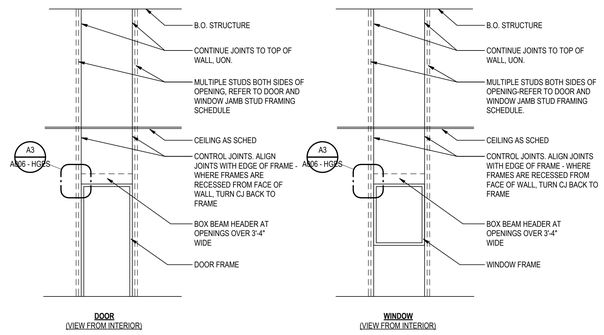
C1 WALL TO DECK DETAILS

C1 / A006

3" = 1'-0"

HGES

DOOR AND WINDOW JAMB STUD/CFMF FRAMING SCHEDULE				
STUDS AT 16" OC		STUDS AT 12" OC		NOTES:
CLEAR OPENING WIDTH	MIN NUMBER OF STUDS AT EACH JAMB	CLEAR OPENING WIDTH	MIN NUMBER OF STUDS AT EACH JAMB	
5'-4" OR LESS	2	4'-0" OR LESS	2	1. MULTIPLE STUDS ARE TO BE FASTENED TOGETHER AT EACH JAMB.
5'-4"+ TO 8'-0"	3	4'-0"+ TO 6'-0"	3	2. STUD FRAMING IS TO ESTABLISH DESIGN BASIS.
8'-0"+ TO 10'-8"	4	6'-0"+ TO 8'-0"	4	3. CFMF SUPPLIER TO ENGINEER ALL OPENINGS IN EXTERIOR WALLS.
10'-8"+ TO 13'-4"	5	8'-0"+ TO 10'-0"	5	4. IN ADDITION TO THOSE PROVIDED AT DOORS AND WINDOWS IN ACCORDANCE WITH DETAILS A1/A023 AND D1/A021, PROVIDE CJ'S AND ME/JS AT GYPSUM BOARD WALLS, PARTITIONS, AND BULKHEADS SO THAT DISTANCE BETWEEN CJ'S AND ME/JS DOES NOT EXCEED 20'-0" OC FOR EXTERIOR WALLS OR 30'-0" FOR INTERIOR WALLS. (SEE PLANS AND ELEVATIONS FOR CONTROLLED LOCATIONS)
13'-4"+ TO 16'-0"	6	10'-0"+ TO 12'-0"	6	

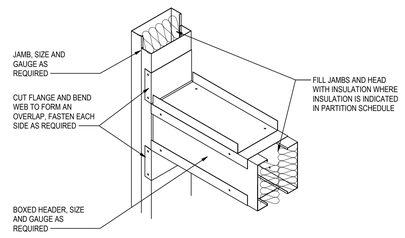


A1 A023_OPENINGS IN STUD/CFMF WALLS

A1 / A006

1" = 1'-0"

HGES

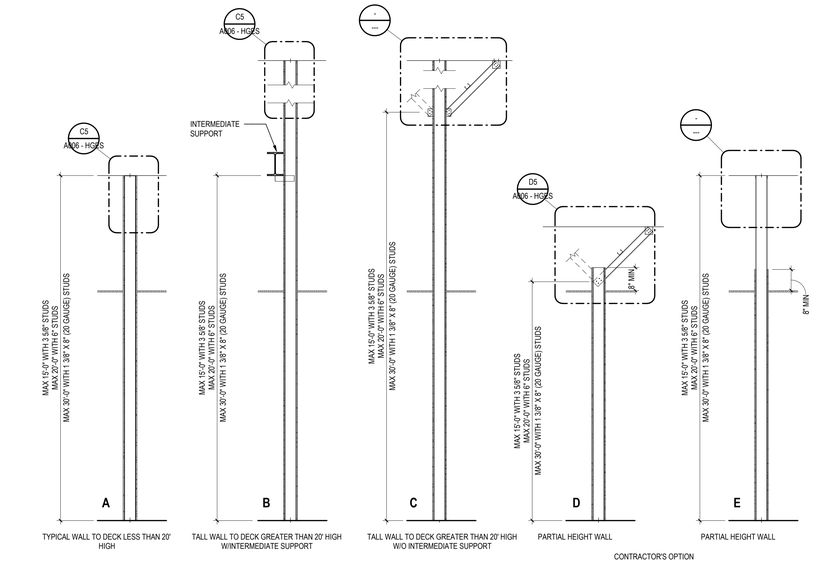


A3 A023_CFMF BOX BEAM HEADER

A3 / A006

1 1/2" = 1'-0"

HGES



A5 A023_INTERIOR STUD WALLS

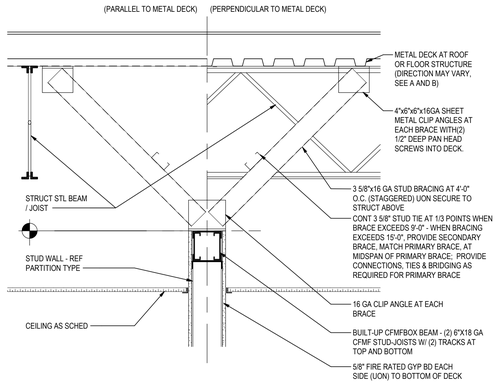
A5 / A006

3/8" = 1'-0"

HGES

CONSTRUCTION NOTES - INTERIOR STUDS:

1. UL ASSEMBLIES INDICATED ESTABLISH A BASIS OF PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE SOLE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED.
2. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
3. ASSEMBLIES INDICATED PROVIDE ASSEMBLY RATING UNDER FLOOR DECK.
4. NOT ALL REQUIREMENTS OF UL ASSEMBLY SHOWN.
5. PROVIDE INTERMEDIATE BRACING FOR FULL-HEIGHT INTERIOR STUD WALLS EXCEEDING MAX UNBRACED HEIGHT. REFER TO B4 THIS SHEET, DETAILS B AND C ON THIS PAGE.
6. PROVIDE DEFLECTION CONNECTION AT TOPS OF ALL STUD WALLS. FIRESTOP FIRE-RATED WALLS AND INSTALL ACOUSTICAL SEALANT AT ACOUSTICAL WALLS.
7. FURNISH MULTIPLE STUDS AT JAMBS OF ALL OPENINGS PER DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE ON THIS SHEET.
8. INSTALL CONTROL JOINTS AT OPENINGS IN INTERIOR STUD WALLS PER A1 THIS SHEET.
9. INSTALL ADDITIONAL CONTROL JOINTS SO THAT JOINT SPACING DOES NOT EXCEED 30'-0".

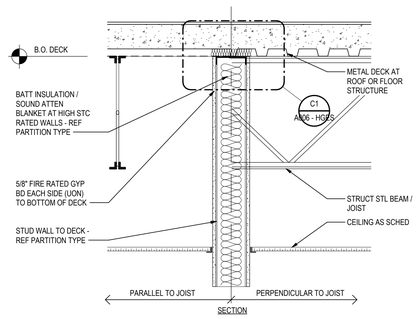


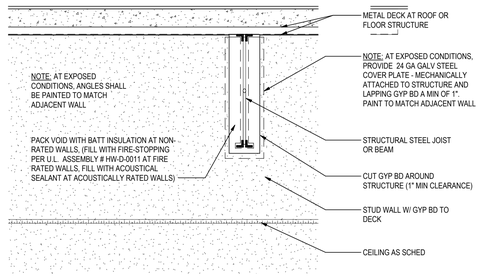
D5 WALL TO DECK DETAILS

D5 / A006

1" = 1'-0"

HGES





C5 WALL TO DECK DETAILS

C5 / A006

1" = 1'-0"

HGES

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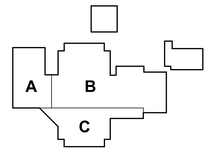
Consultant

Notes



KEY PLAN

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Ckkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2024 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TYPICAL PARTITION HEAD DETAILS/TYPICAL PLAN DETAILS

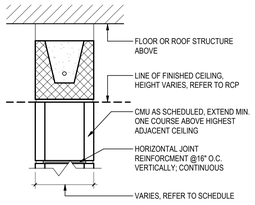
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A006 - HGES

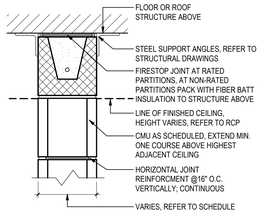
*Pick location in Project Information
1/20/2025 5:54:07 AM
ORIGINAL SHEET - ARCH E1

INTERIOR PARTITION SCHEDULE - GROUPS A - L (LIGHT GAUGE METAL FRAMING)																				
	CONSTRUCTION DATA							TOP TERMINATION			RATED PARTITIONS			ACOUSTICAL PERFORMANCE				
TYPE	OVERALL PARTITION DEPTH	GWB THICKNESS	MASONRY / FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	MASONRY TO STRUCTURE	SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	SOUND INSULATION	STC RATING	STC TEST	NOTES
Group B - Material, Stud																		
B15	4 1/4"	5/8"	3 5/8"			TB2	BB1	●	-	-	-	-	0		-	0		INTERIOR
B21	6 5/8"	5/8"	6"			TB2	BB1	●	-	-	-	-	0		-	0		INTERIOR

INTERIOR PARTITION SCHEDULE - GROUPS M - P (CMU FRAMING)																			
	CONSTRUCTION DATA							TOP TERMINATION			RATED PARTITIONS			ACOUSTICAL PERFORMANCE				
TYPE	OVERALL PARTITION DEPTH	GWB THICKNESS	MASONRY / FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	MASONRY TO STRUCTURE	SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	SOUND INSULATION	STC RATING	STC TEST	NOTES
Group M - CMU																		
M01	3 5/8"	0"	4" NOM.			TM1	BM1	-	-	-	-	-	0		-	0		INTERIOR
M09	7 5/8"	0"	8" NOM.			TM2	BM1	-	-	-	●	-	0		-	45	KAL-359-3-66	INTERIOR
M11	9 5/8"	0"	8" NOM.			TM2	BM1	-	-	-	●	-	0		-	45	KAL-359-3-66	INTERIOR



TOP TM1



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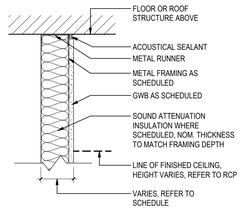

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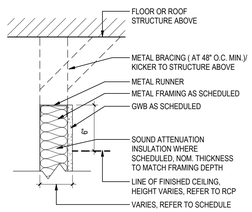

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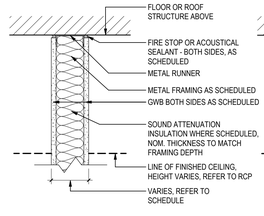

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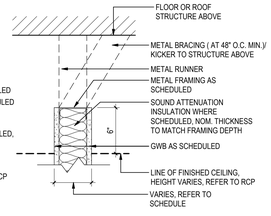

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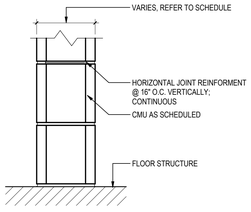
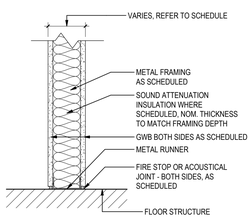
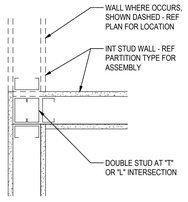


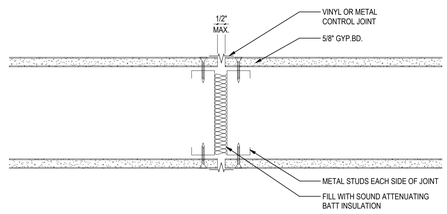
BASE BM1



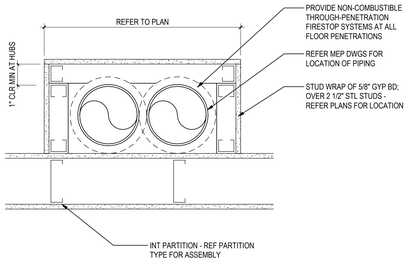
BASE BC1



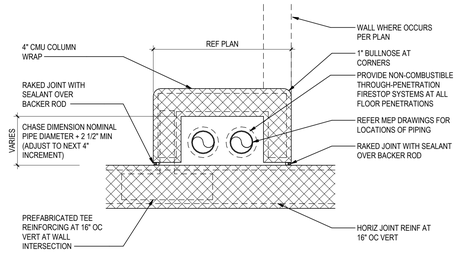
B1 A007 — **CFMF INTERSTECTION**
1 1/2" = 1'-0"
HGES



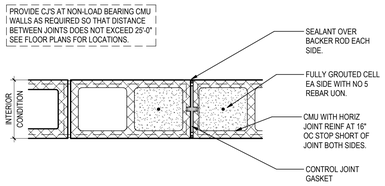
B2 A007 — **CFMF_CONTROL JOINT**
3" = 1'-0"
HGES



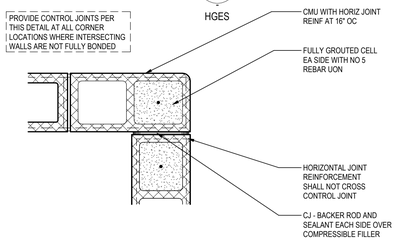
B3 A007 — **CHASE_CFMF**
1 1/2" = 1'-0"
HGES



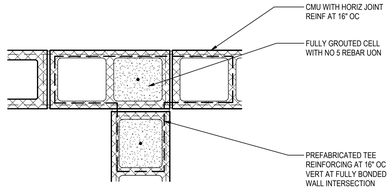
B4 A007 — **CMU_CHASE PIPE WRAP1**
1 1/2" = 1'-0"
HGES



A1 A007 — **CMU_CONTROL JOINT (CJ) - VERT SPAN**
1 1/2" = 1'-0"
HGES



A2 A007 — **CMU_CONTROL JOINT (CJ) - VERT SPAN CORNER**
1 1/2" = 1'-0"
HGES



A3 A007 — **CMU_BONDED INTERSECTION - VERT SPAN**
1 1/2" = 1'-0"
HGES

GENERAL NOTES - PARTITIONS:

1. NOT ALL PARTITION GROUPS OR TYPES HAVE BEEN UTILIZED - RESULTING TYPE NUMBERS MAY NOT BE SEQUENTIAL. REFER TO PARTITION SCHEDULES FOR TYPES UTILIZED IN THIS PROJECT.
2. FOR ALL PARTITION SYSTEMS THAT ARE INDICATED TO EXTEND FROM FLOOR SLAB TO UNDERSIDE OF STRUCTURE OR FLOOR SLAB ABOVE, INCLUDING ALL FIRE RATED PARTITIONS AND ALL PARTITIONS INDICATED TO HAVE A SOUND TRANSMISSION CLASS (STC), PROVIDE ASSEMBLY AT HEAD OF PARTITION THAT WILL ACCOMODATE A MINIMUM DEFLECTION OF THE STRUCTURE ABOVE THE PARTITION AS INDICATED ON THE STRUCTURAL DRAWING, BUT NOT LESS THAN L/360 (WHERE L = SPAN OF THE STRUCTURE) WITHOUT TRANSFERRING LOADS RESULTANT FROM THAT DEFLECTION TO THE PARTITION ASSEMBLY.
3. PROVIDE ASSEMBLY THAT WILL TRANSFER LATERAL LOADS APPLIED NORMAL TO THE FACE OF THE PARTITION SYSTEM INTO THE STRUCTURE OR FLOOR SLAB ABOVE. WHERE FIRE-RATED PARTITIONS OCCUR, PROVIDE A UL-LISTED AND APPROVED HEAD ASSEMBLY FOR THAT PARTITION THAT HAS BEEN TESTED AND DETERMINED TO PROVIDE A FIRE RATING EQUIVALENT TO THAT OF THE FIRE RATED PARTITION. WHERE PARTITIONS INDICATED TO HAVE A SOUND TRANSMISSION CLASS OCCURS, PROVIDE A HEAD ASSEMBLY FOR THAT PARTITION THAT HAS BEEN TESTED AND DETERMINED TO PROVIDE A SOUND TRANSMISSION CLASS EQUIVALENT TO THAT OF THE SOUND RATED PARTITION. ALL HEAD ASSEMBLIES SHALL BE INSTALLED IN STRICT CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS.
4. REFER TO A300 FOR EXTERIOR WALL BUILDING ASSEMBLIES.
5. REFER TO CODE REVIEW IN G100 SERIES FOR LOCATION & EXTENT OF RATED ASSEMBLIES.

INTERIOR STUD CONSTRUCTION NOTES:

1. GYP BD TO BE 5/8" FIRE RESISTIVE & IMPACT RESISTIVE (UON).
2. PROVIDE CONT ACCOUSTICAL SEALANT ON BOTH SIDES AT ADJACENT WALLS AND AT TOP AND BOTTOM OF GYPSUM BOARD ASSEMBLY WALLS TO FLOOR/ROOF DECK AND FLOOR.
3. PROVIDE 1/2" CEMENTITIOUS TILE BACKER BOARD BEHIND TILE AT WET WALLS PROVIDE 5/8" WR GYP BD BEHIND TILE AT NON-WET WALLS, AND AT NON-TILED WET WALLS.
4. PROVIDE SOUND ATTENUATION FIRE BLANKET INSULATION AT ALL RESTROOM WALLS AND MECHANICAL ROOM WALL(S) ADJACENT TO CLASSROOMS OR ADMINISTRATION (INDICATED OR NOT).
5. REFER TO D5/A032 FOR TYPICAL GYP BD CONTROL JOINT DETAILS

INTERIOR CMU CONSTRUCTION NOTES:

1. PROVIDE A CONT BOND BEAM AT THE BOTTOM OF CMU WALLS AT THE FIRST COURSE ABOVE THE FLOOR LEVEL - DISCONTINUE BOND BEAMS INTO REINFORCED JAMBS AT OPENINGS IN WALLS.
2. PROVIDE A CONT BOND BEAM AT 8'-0" O.C. MAX VERTICALLY (ALIGN WITH DOOR HEAD LINTELS WHERE POSSIBLE) FOR RUNNING BOND CMU - AND - AT 4'-0" O.C. MAX VERTICALLY (ALIGN WITH DOOR HEAD LINTELS WHERE POSSIBLE) FOR STACK BOND CMU. FOR SPACING ABOVE DOOR HEADS, START MEASURING FROM THE CENTER LINE OF LINTELS. DISCONTINUE BOND BEAMS INTO REINFORCED JAMBS AT OPENINGS IN WALLS OR INTO OTHER BOND BEAMS WHERE TOP OF WALL SLOPES.
3. ALL INTERIOR SINGLE WYTHE CMU WALLS SHALL HAVE HORIZONTAL JOINT REINFORECEMENT AT 16" OC.
4. PROVIDE CONTROL JOINTS IN INTERIOR CMU WALLS @ 20'-0" OC MAX AND AT ALL INTERSECTIONS WITH EXTERIOR WALLS. REFER C3/A021, D4/A021 AND SHEET A033 FOR TYP MASONRY CONTROL JOINT (CJ) DETAILS

ACOUSTIC PARTITION CONSTRUCTION NOTES:

1. PROVIDE CONTINUOUS ACOUSTICAL SEALANT (BOTH SIDES) AT ALL NON-RATED PARTITION HEAD, BASE & JAMB TERMINATION JOINTS. FILL HEAD DEFLECTION VOID AND DECK FLUTES WITH 10 PDC GLASS FIBER INSULATION.
2. PROVIDE SOUND ATTENUATING BLANKET INSULATION AT ALL PARTITIONS (INDICATED OR NOT) WITHIN AND SURROUNDING SOUND SENSITIVE AREAS *(OFFICES, BATHROOMS)*
3. PENETRATIONS THROUGH SOUND ISOLATING WALLS TO BE FULLY SEALED AROUND ENTIRE PERIMETER. PENETRATING ELEMENTS TO BE CENTERED WITHIN OPENING SO THAT THEY NEITHER TOUCH NOR BEAR ON SURROUNDING CONSTRUCTION AND ARE FULLY SEALED.
4. ALL ELECTRICAL AND TELECOMMUNICATIONS BOXES WITHIN SOUND ISOLATING WALLS SHALL BE INSTALLED IN ALTERNATING STUD BAYS TO MINIMIZE FLANKING SOUND PATHS. SEAL DEVICE TO DRYWALL CUT-OUTS WITH MOLDABLE PUTTY PAD - BASIS OF DESIGN TO BE 3M FIRE BARRIER MOLDABLE PUTTY PAD.
5. ALL ELECTRICAL AND TELECOMMUNICATION OUTLET BOXES IN FIRE RATED BARRIER PARTITIONS TO RECEIVE FIRE RATED MOLDABLE PUTTY PAD - BASIS OF DESIGN TO BE 3M FIRE BARRIER MOLDABLE PUTTY PAD.

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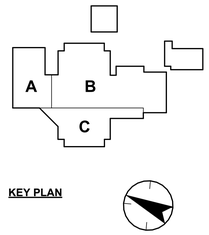

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

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Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	12/07/24
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REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TYPICAL INTERIOR PARTITION HEAD DETAILS/TYPICAL PLAN DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

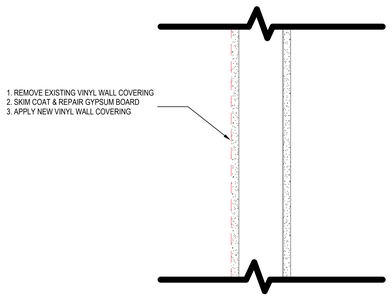
A007 - HGES

Pick location in Project Information
7/25/2025 5:37:55 AM

ORIGINAL SHEET - ARCH E1

MASTER PARTITION SCHEDULE - ALL GROUPS																				
	CONSTRUCTION DATA							TOP TERMINATION				RATED PARTITIONS			ACOUSTICAL PERFORMANCE			
TYPE	OVERALL PARTITION DEPTH	GWB THICKNESS	FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	MASONRY TO STRUCTURE	SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	SOUND INSULATION	STC RATING	STC TEST	NOTES
Group B - Material, Stud																		
B15	4 1/4"	5/8"	3 5/8"			TB2	BB1	●	-	-	-	-	0		-	0		INTERIOR
B21	6 5/8"	5/8"	6"			TB2	BB1	●	-	-	-	-	0		-	0		INTERIOR
Group M - CMU																		
M01	3 5/8"	0"	4" NOM.			TM1	BM1	-	-	-	-	-	0		-	0		INTERIOR
M09	7 5/8"	0"	8" NOM.			TM2	BM1	-	-	-	●	-	0		-	45	KAL-359-3-66	INTERIOR
M11	9 5/8"	0"	8" NOM.			TM2	BM1	-	-	-	●	-	0		-	45	KAL-359-3-66	INTERIOR

GROUP C SAMPLE PARTITION SCHEDULE																	
	CONSTRUCTION DATA							TOP TERMINATION			RATED PARTITIONS			ACOUSTICAL PERFORMANCE			
TYPE	OVERALL PARTITION DEPTH	GWB THICKNESS	FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	SOUND INSULATION	STC RATING	STC TEST	NOTES
Group C - Material, Stud, Material																	
C10	4 7/8"	5/8"	3 5/8"			TC1	BC1	●	●	-	-	0		-	40	RAL-TL11-125	
C16	4 7/8"	5/8"	3 5/8"			TC2	BC1	●	-	-	-	0		-	0		
C26	7 1/4"	5/8"	6"			TC2	BC1	●	-	-	-	0		-	0		



A1 / A009 — **REPLACE/RECOVER VINYL**
3" = 1'-0"
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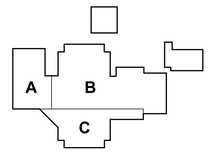

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
INTERIOR PARTITION TYPES, NOTES AND DETAILS

Project No.	Scale
214001246	3" = 1'-0"
Revision	Drawing No.

A009 - HGES

*Plot location in Project Information
1/20/2025 5:56:07 AM
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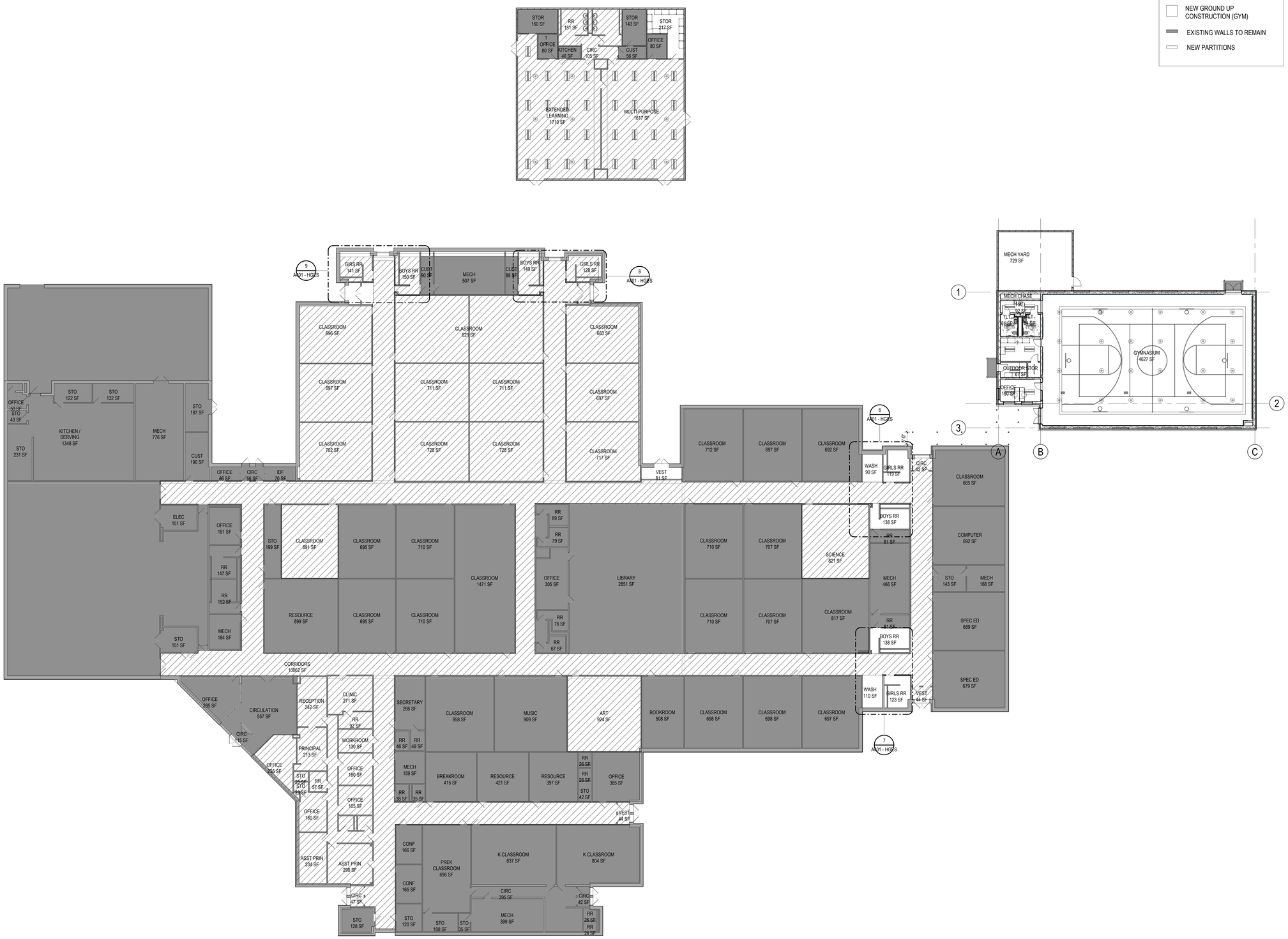

A1
A101

COMPOSITE PLAN - EXISTING AND NEW

1/16" = 1'-0"

HGES

ORIGINAL SHEET - ARCH E1

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1/20/2025 5:54:09 AM

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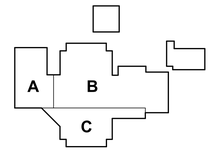

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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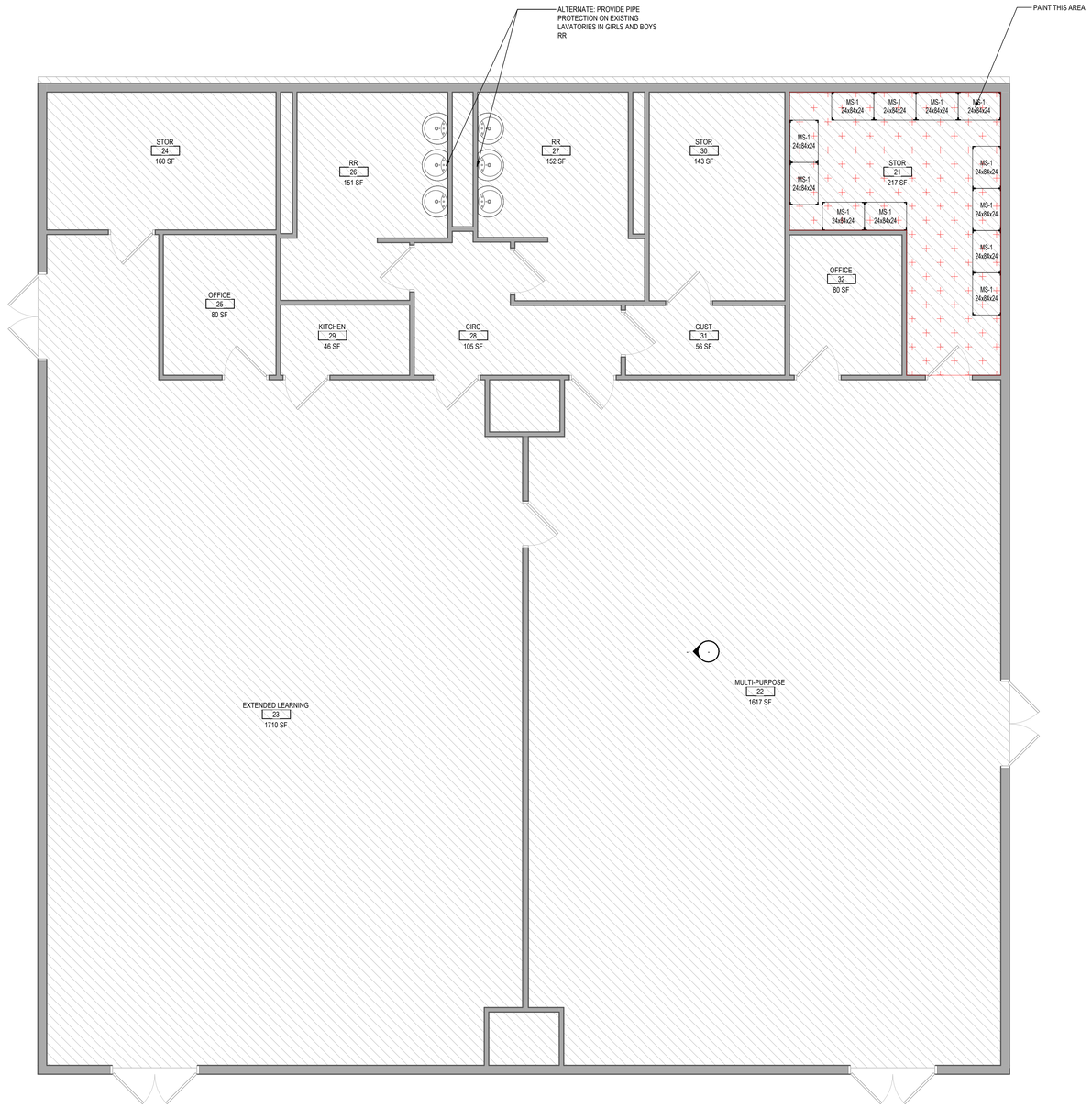
Title

COMPOSITE FLOOR PLAN - EXISTING AND NEW

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A101 - HGES



GENERAL NOTES

1. ALTERNATE: REPAIR TORN LAYERS OF FACED INSULATION ON ROOF AND LEAKS. CLEAN STAINS FROM FACE INSULATION

2. ALTERNATE: REPLACE HALOGEN LIGHTING IN EXTENDED DAY ROOM AND OLD GYM WITH LED HIGH PAY LIGHTS

3. ALTERNATE: PROVIDE INSULATING PIPE PROTECTION AROUND EXISTING LAVATORIES IN GIRLS AND BOYS RESTROOMS

4. ALTERNATE: REPLACE DIFFUSERS (6)

5. ALTERNATE: FIX DAMAGED FABRIC WRAPPED ACOUSTICAL PANELS

6. ALTERNATE: REPAIR VINYL FACING ON WALLS

A1 / A102
EXTENDED DAY LEARNING FLOOR PLAN
1/4" = 1'-0"
HGES

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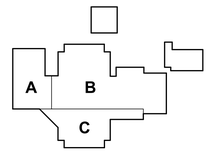

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

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Title
FLOOR PLAN - EXTENDED DAY LEARNING

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A102 - HGES

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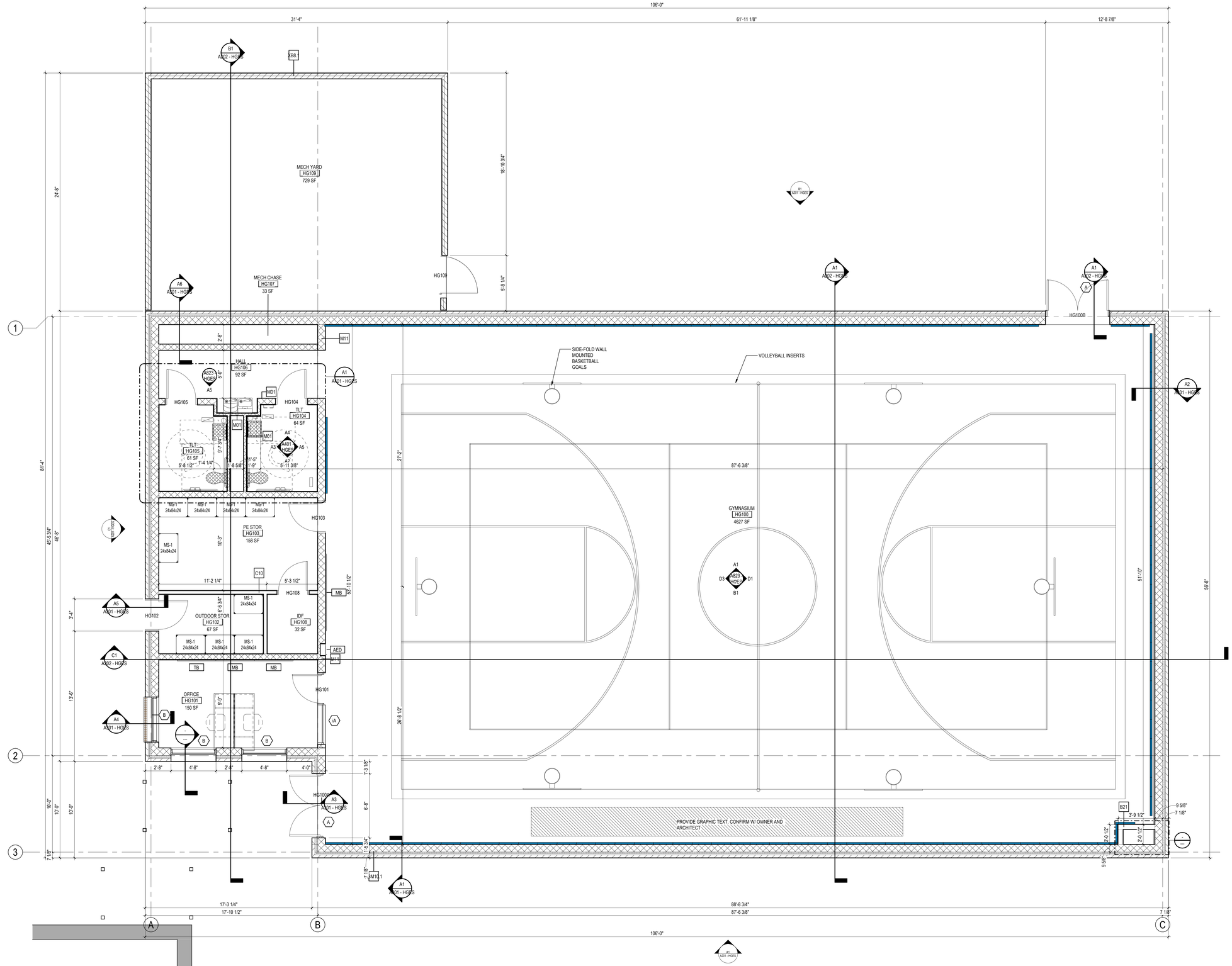

A1 A103
HGES

GYMNASIUM FLOOR PLAN

1/4" = 1'-0"

«Pick location in Project Information»
1/22/2025 3:54:10 AM
ORIGINAL SHEET - ARCH E1

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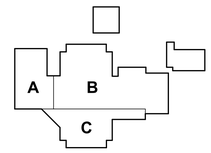

KEY PLAN

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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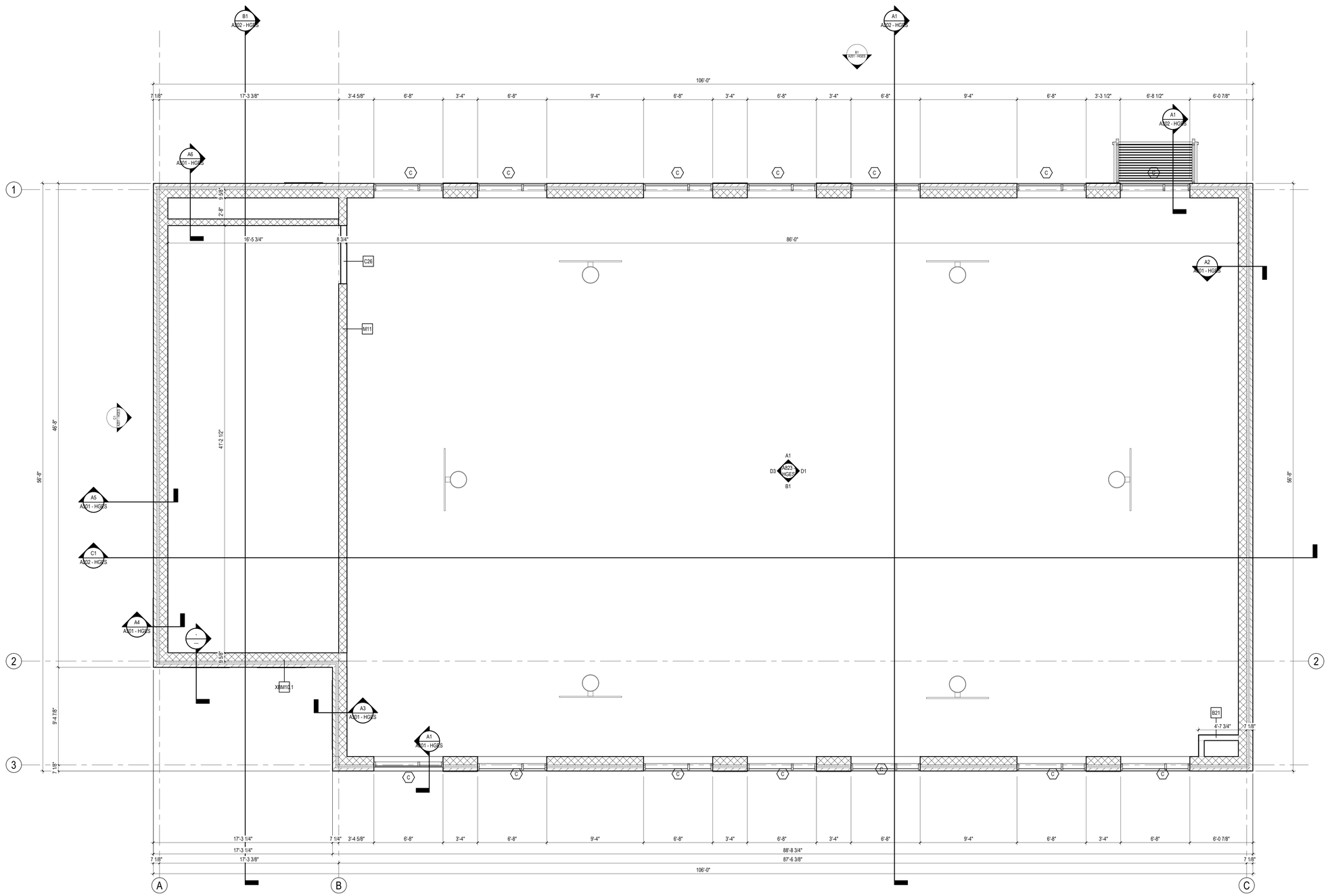
Title
FLOOR PLAN - GYMNASIUM

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A103 - HGES



A1 A113 — **GYMNASIUM CLERESTORY PLAN**

1/4" = 1'-0"

HGES

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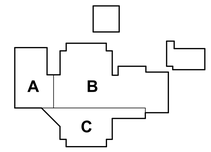

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REGISTERED ARCHITECT
DANIELLE HUNT
28298
STATE OF TEXAS

Client/Project Logo

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INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
GYMNASIUM CLERESTORY PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A113 - HGES

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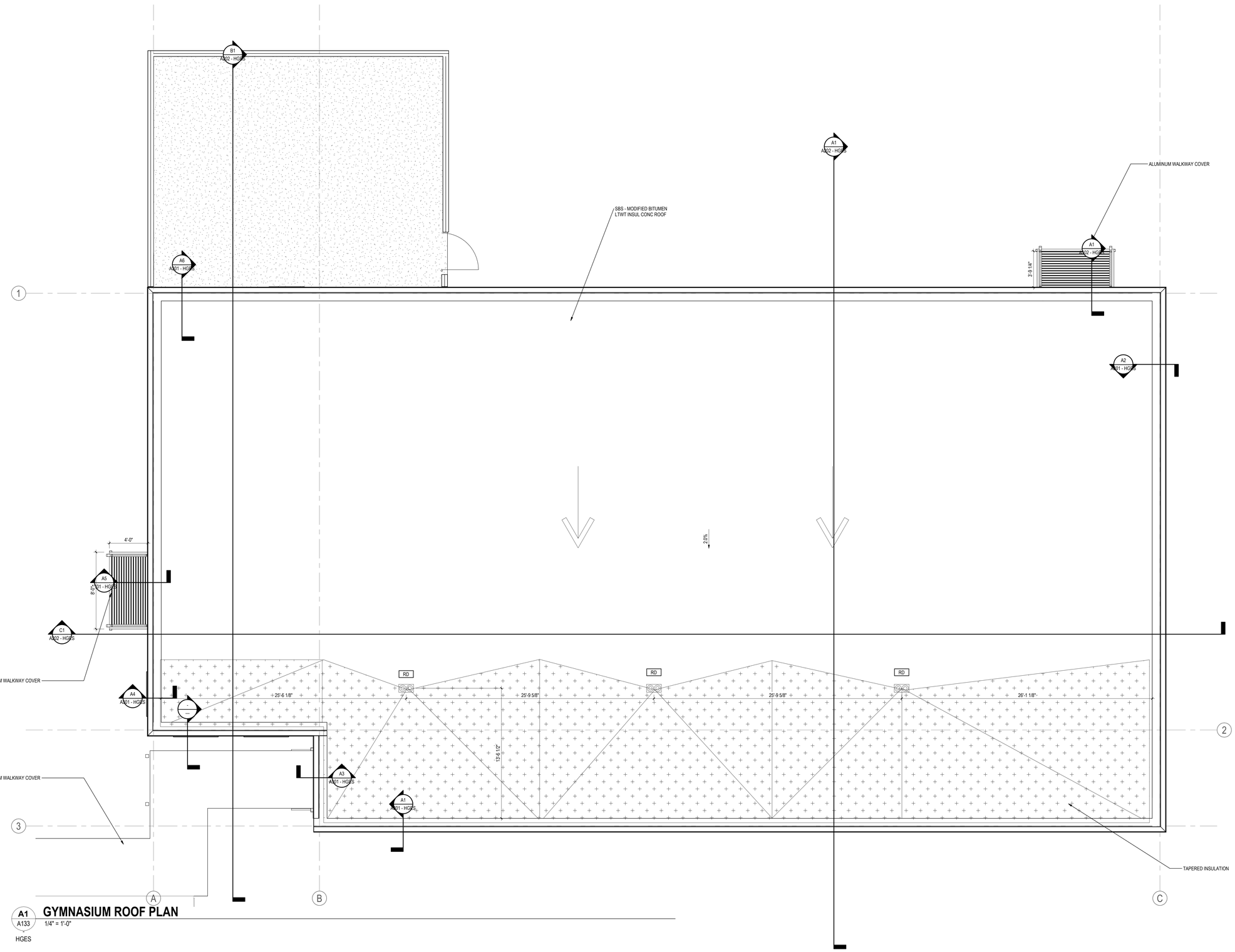
ORIGINAL SHEET - ARCH E1



A1 / A133
GYMNASIUM ROOF PLAN
1/4" = 1'-0"
HGES

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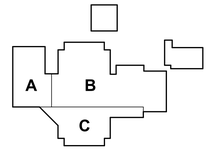

KEY PLAN

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Client/Project
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

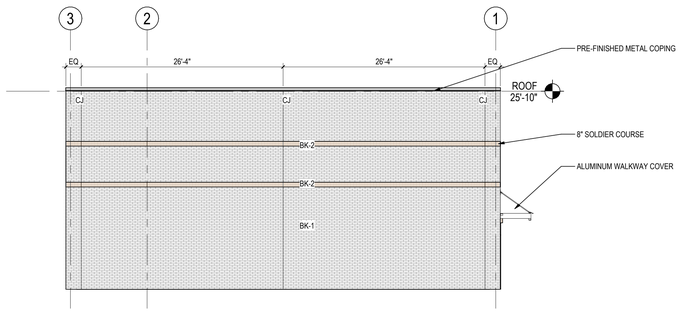
Title
ROOF PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A133 - HGES

•Plot location in Project Information•
1/20/2025 5:56:12 AM

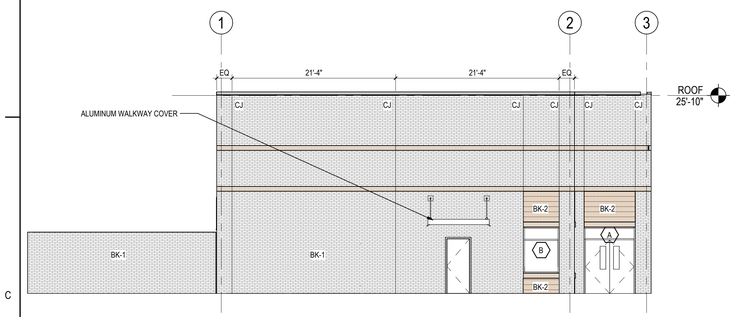
ORIGINAL SHEET - ARCH E1



D1 A201 **EAST ELEVATION**

1/8" = 1'-0"

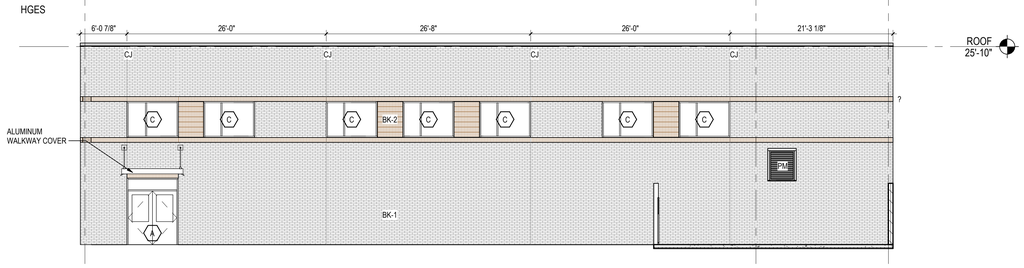
HGES



C1 A201 **WEST ELEVATION**

1/8" = 1'-0"

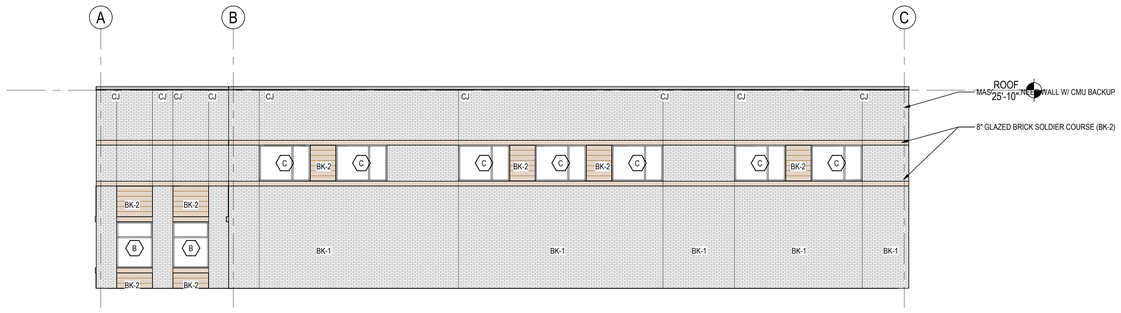
HGES



B1 A201 **NORTH ELEVATION**

1/8" = 1'-0"

HGES



A1 A201 **SOUTH ELEVATION**

1/8" = 1'-0"

HGES

EXTERIOR MATERIALS LEGEND

1. BK-1 BOD: INTERSTATE MODULAR BRICK, TUMBLEWEED
2. BK-2 BOD: BELDEN GLAZED MODULAR BRICK, DOLPHIN GRAY
3. BK-3 BOD: BELDEN GLAZED MODULAR BRICK, CRANBERRY
4. BK-4 BOD: CLOUD CERAMICS VELOUR MODULAR, DOVE GREY

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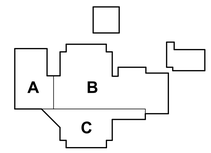

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Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

EXTERIOR ELEVATIONS - GYMNASIUM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A201 - HGES

*Plot location in Project Information
1/20/2025 5:56:13 AM

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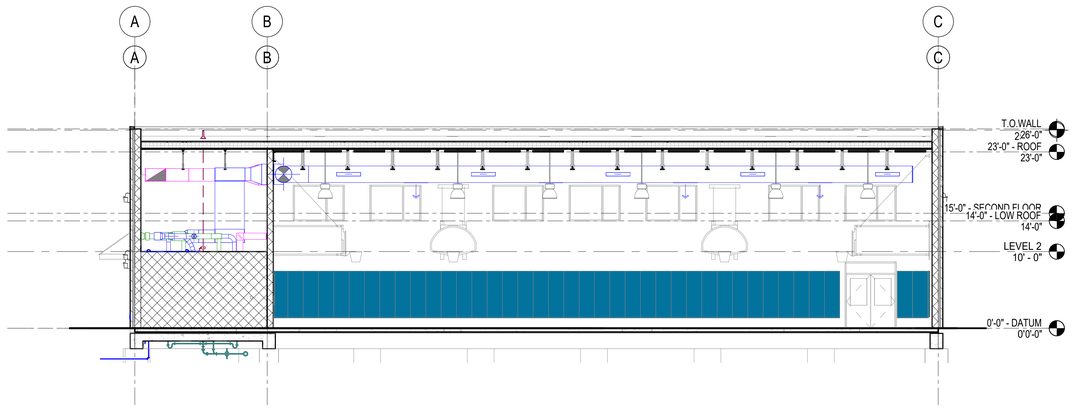

C1 A202 — **BUILDING SECTION**
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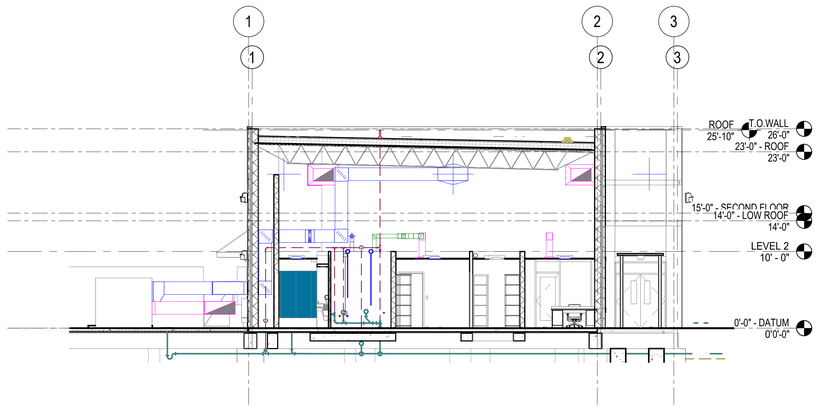
HGES



B1 A202 — **BUILDING SECTION**
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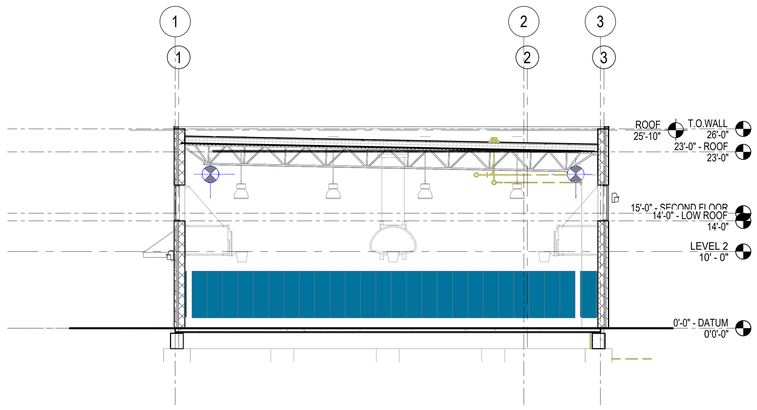
HGES



A1 A202 — **BUILDING SECTION**
1/8" = 1'-0"
HGES

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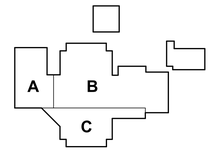

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	04/18/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE DUNN
28298
STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
BUILDING SECTIONS

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.

A202 - HGES

<Plot location in Project Information>
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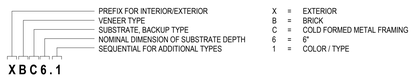
ORIGINAL SHEET - ARCH E1

BUILDING SYSTEMS TYPES TABLE



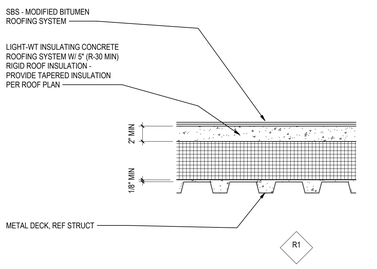
PREFIX	
X	= EXTERIOR

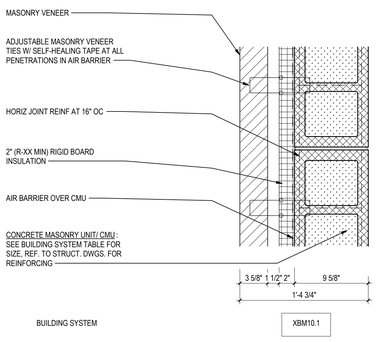
VENEER TYPES	
B	= BRICK
M	= CMU (MASONRY)
0	= NO VENEER

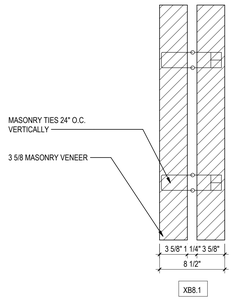
SUBSTRATE		NOMINAL DEPTH		
C	= COLD FORMED METAL FRAMING (CFMF)	4	= 4"	
		6	= 6"	: 6" x 16 GA. @ 16" O.C. - 12" O.C. AT 10'-0" FROM ALL CORNERS
		8	= 8"	: 8" x 16 GA. @ 16" O.C. - 12" O.C. AT 10'-0" FROM ALL CORNERS
M	= CONCRETE MASONRY UNIT (CMU)	6	= 5 5/8"	
		8	= 7 5/8"	
		10	= 9 5/8"	
		12	= 11 5/8"	

WALL ASSEMBLY LEGEND

1" = 1'-0"







GENERAL NOTES - WALL SECTIONS:

GENERAL

1. THE SECTIONS DO NOT INDICATE ALL INSTANCES OF MASONRY BANDING, CORBELLING, AND OTHER VENEER CONDITIONS. REFER TO SECTION DETAILS AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

ROOF / FLASHING AND MISC CONSTR

1. MULTI-PLY ROOF WORK NOT SPECIFICALLY DETAILED SHALL BE DESIGNED AND EXECUTED IN ACCORDANCE WITH 'NRCA' MANUAL REQUIREMENTS.
2. SHEET METAL WORK NOT SPECIFICALLY DETAILED SHALL BE DESIGNED AND EXECUTED IN ACCORDANCE WITH 'SMACNA' MANUAL REQUIREMENTS.
3. WHERE 'SMACNA' MANUAL IS REFERENCED, THESE DOCUMENTS REFER TO THE 7TH EDITION, 2012.
4. JOINTS FOR COPINGS, ROOF EDGES AND EXPOSED FLASHING SHALL BE PER 'SMACNA', TABLE 3-1, PROVIDE JOINT J5 FOR PREFINISHED MATERIAL FOR COPING (24 GA UP TO 18" WIDE AND 22 GA UP TO 18" WIDE) AND JOINT J8 FOR GALVALUM AND GALV MATERIAL TOP BACK OF PARAPET.
5. THROUGH-WALL COUNTERFLASHINGS SHALL BE TWO-PIECE PREFIN GALV STL IAW 'SMACNA' MANUAL FIG 4-4C, W/ HOLD-DOWN CLIPS 32" OC UON.
6. WEEPS SHALL BE AT 24" OC AT MASONRY VENEER UON. WEEPS SHALL BE AT 32" OC WHERE MASONRY VENEER IS CMU.
7. PROVIDE CONT WATERSTOPS AT ALL EXTERIOR WALLS THAT DO NOT HAVE A BRICK LEDGE. WATERSTOP SHALL BE CONT EMBEDDED SST FLASHING W/ 1" MIN EMBED INTO CONC SLAB AND SHALL LAP 6" MIN OVER EXT GYP SHEATHING/UNDER VAPOR PERMEABLE AIR BARRIER -OR- SHALL LAP 6" MIN OVER CMU BACKUP/UNDER RIGID INSUL AND VAPOR PERMEABLE AIR BARRIER. ALIGN WATERSTOP W/ OUTSIDE FACE OF EXT GYP SHEATHING OR CMU BACKUP.
8. ALL PENETRATIONS IN RATED WALLS AND FLOORS SHALL HAVE FIRESTOPPING AS REQUIRED PER CODE.
9. REFER TO 'LOOSE STEEL ANGLE LINTEL FOR MASONRY VENEER' SCHEDULE, SHEET A003 FOR UNDESIGNATED, UNBRACED VENEER, PER SPAN, AT WALL OPENINGS.
10. REFER TO 'MISC STEEL BRACING' SCHEDULE AT SHEET A006 FOR UNDESIGNATED MISC STL BRACING FOR WALLS.
11. REFER TO STRUCT DOCS FOR EXACT LOCATIONS AND TYPES OF STRUCT MEMBERS FOR JOIST BEARING , TOP OF STEEL/BOTTOM OF DECK ELEVATIONS, AND FOR COMPLETE DETAILS OF ALL STRUCT CONNECTIONS. INDICATIONS IN WALL SECTIONS ARE FOR COORDINATION PURPOSES ONLY. NOTIFY ARCHITECT OF ANY DISCREPANCIES
12. REFER TO ELEVATIONS AND STRUCT DOCS FOR MASONRY VENEER PATTERNS, BRICK LEDGES AND STEPS IN PARAPETS.
13. SUSP/BRACED AND FRAMED PCP SOFFITS THAT MEET WALLS SHALL HAVE CONT PERIMETER SOFFIT VENTS, UON.
14. REFER TO FLOOR PLANS FOR EXACT PLACEMENT OF WINDOWS.
15. REFER TO CODE SHEETS (G-SERIES) FOR FIRE ASSEMBLY REQUIREMENTS AND EXTENTS.
16. PROVIDE SPRAYED-ON FIRE PROOFING IAW ASSEMBLIES INDICATED ON CODE SHEET G101 - G10X AS REQUIRED TO COMPLY WITH LOCAL CODE REQUIREMENTS INDICATED.
17. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF SOUND ABSORBING CMU IN GYMNASIUMS.

CFMF, STL STUD AND GYP BD SYSTEM CONSTR

1. METAL FRAMING FOR EXTERIOR WALLS SHALL BE CFMF AND INTERIOR METAL FRAMING SHALL BE STL STUDS, UON.
2. UNDESIGNATED CFMF SHALL BE 16GA MIN W/ 1 5/8" MIN WIDE FLANGES AT 16"OC MIN (12"OC MAX FOR 10'-0" EA SIDE AT OUTSIDE CORNERS). REFER TO BUILDING SYSTEM TYPES AND DETAILS FOR MEMBER DEPTHS. CFMF SYSTEMS SUPPORTING MASONRY VENEER SHALL RESIST CODE REQUIRED WIND PRESSURES AT DEFLECTION LESS THAN OR EQUAL TO L/600. CFMF SYSTEMS NOT SUPPORTING MASONRY VENEER SHALL RESIST CODE REQUIRED WIND PRESSURES AT DEFLECTION LESS THAN OR EQUAL TO L/360. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THESE CRITERIA AND INDICATED CFMF MEMBER SIZES AND SPACINGS.
3. CFMF AND STUD MEMBERS SHALL HAVE BOTH FLANGES BRACED - WHERE THERE IS NO SHEATHING OR FINISH MATERIAL CALLED OUT, PROVIDE V-BAR BRACING OR BRIDGING AT 24"OC MAX.
4. CFMF BRIDGING SHALL BE 6"x18GA CFMF AT 24"OC, UON.
5. WHERE CFMF ARE 12"OC, VENEER TIES SHALL BE 16"OC VERT AND 12"OC HORIZONTAL
6. ALL BATT INSUL IN EXT WALLS SHALL BE UNFACED. WHERE CFMF STUD DEPTH EXCEED INSUL THICKNESS, INSUL SHALL BE PLACED AT EXT SIDE OF STUD.
7. PROVIDE CONT SPECIFIED VAPOR PERMEABLE AIR BARRIER ON OUTSIDE FACE OF GYP SHEATHING OR OUTSIDE FACE OF CMU BACK-UP AS REQUIRED BY BUILDING SYSTEM TYPE.
8. AT RADIUSED SURFACES IN GYP BD BULKHEADS USE APPROPRIATE THICKNESS OF GYP BOARD TO ACHIEVE INDICATED RADIUS. USE APPROPRIATE NUMBER OF LAYERS OF GYP BD TO MAINTAIN THICKNESS OF WALLBOARD INDICATED IN DETAILS AND PARTITION TYPES. PREVENT FLAT AREAS BETWEEN FRAMING BY SPACING STUDS CLOSER THAN NORMAL. WORK SHALL BE PERFORMED IN ACCORDANCE WITH GYPSUM ASSOCIATION PUBLICATION GA-226.
9. CFMF SHALL BE BRACED AS REQUIRED TO MAINTAIN STUD SPANS PER MFR HEIGHT LIMITING TABLES. STUD BRACING SHALL OCCUR ABOVE CEILINGS ONLY. WHEN THIS IS NOT POSSIBLE PROVIDE STUDS OF AN APPROPRIATE GAUGE OR DEPTH FOR THE CONDITION.
10. REFER TO 'DOOR AND WINDOW JAMB SCHEDULE' ON SHEET A006 FOR NUMBER OF STUDS AT JAMBS IN CFMF AND STL STUD AND GYP BD CONSTR.

CMU CONSTR

1. CMUMASONRY MULTI-WYTHE CAVITY WALLS SHALL HAVE LADDER DESIGN HORIZ REINF AT 16" OC.
2. ALL INTERIOR SINGLE WYTHE CMU WALLS SHALL HAVE HORIZONTAL JOINT REINFORECEMENT AT 16" OC.
3. REFER STRUCT DOCS FOR DESIGN OF LOAD-BEARING WALL AND EXTERIOR NON-LOADBEARING WALLS.
4. UNDESIGNATED CMU BOND BEAMS SHALL HAVE CONT #5 BARS AT TOP AND BOTTOM AND SHALL BE GROUTED SOLID.
5. PROVIDE CONT BOND BEAMS AT TOPS OF ALL CMU WALLS UNLESS OTHERWISE INDICATED. PROVIDE STEPS AS REQUIRED FOR SLOPES.
6. WHERE A BOND BEAM IS INTERRUPTED BY A WALL OPENING, THE BOND BEAM SHALL CONTINUE ABOVE THE OPENING AND SHALL BE ANCHORED TO CONT GROUTED AND VERT REINFORCED JAMB CELLS AT EA SIDE ON HORIZONTAL SPANNING WALLS.
7. REFER TO 'CONCRETE 'U' BLOCK LINTELS' SCHEDULE SHEET A### FOR UNDESIGNATED LINTELS, PER SPAN AT CMU WALL OPENINGS.
8. NON LOAD-BEARING MASONRY WALL PARAPETS SHALL BE REINF W/ No 5 BARS AT 32" OC VERT IN FULLY GROUTED CELLS, EXTENDING BELOW BRACE POINT EQUAL DISTANCE TO PARAPET ABOVE BRACE POINT

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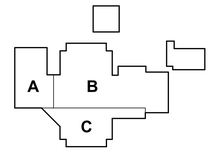

KEY PLAN

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Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	04/18/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

EXTERIOR BUILDING SYSTEM TYPES

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A300 - HGES

<Plot location in Project Information>
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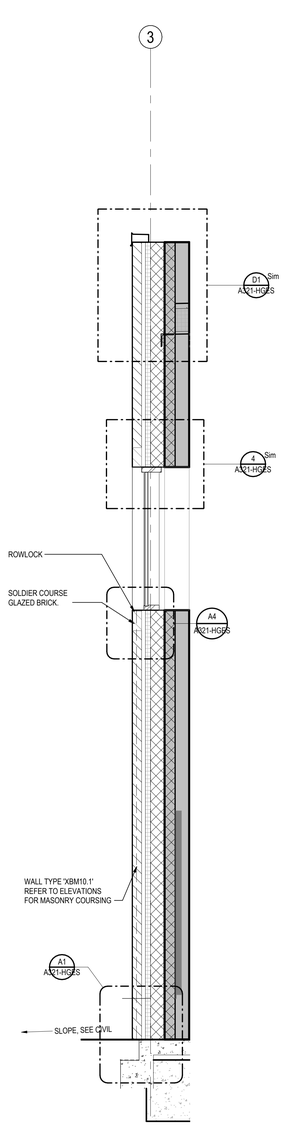
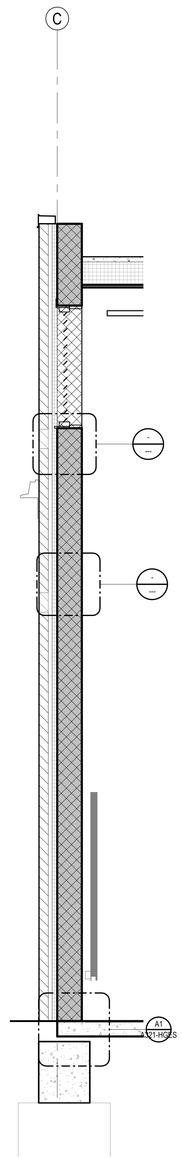


A1 WALL SECTION
A301 1/2" = 1'-0"
HGES



A2 WALL SECTION
A301 1/2" = 1'-0"
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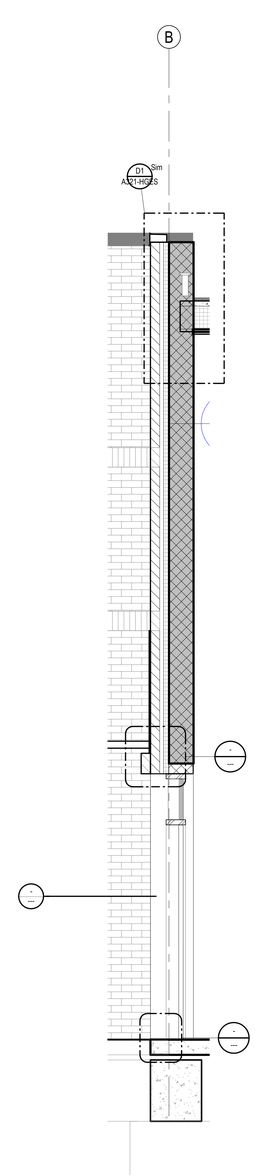
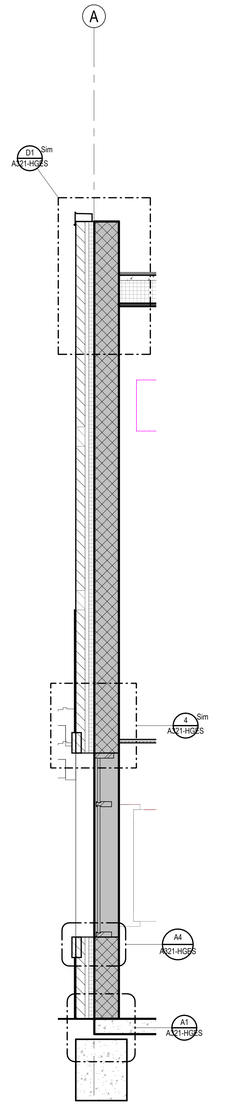
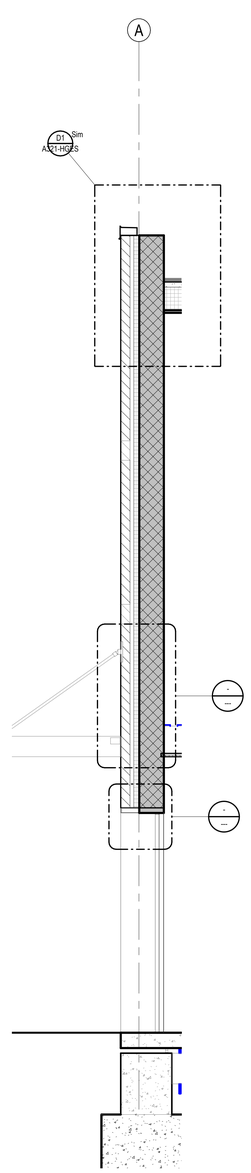


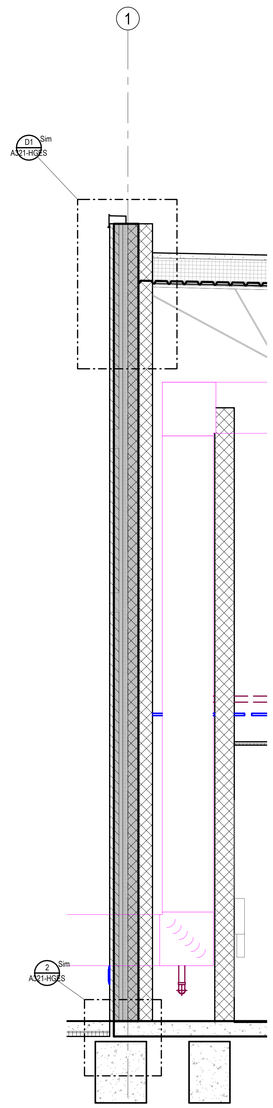
A3 WALL SECTION
A301 1/2" = 1'-0"
HGES



A4 WALL SECTION
A301 1/2" = 1'-0"
HGES



A5 WALL SECTION
A301 1/2" = 1'-0"
HGES



A6 WALL SECTION
A301 1/2" = 1'-0"
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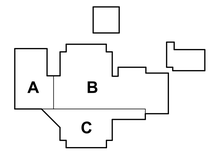

KEY PLAN

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100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	04/18/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE DUNN
28295
STATE OF TEXAS

Client/Project Logo

2023 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

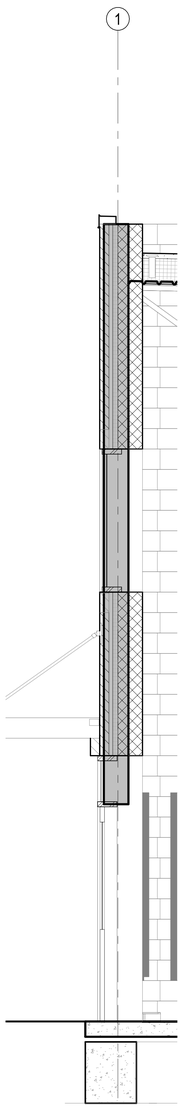
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
EXTERIOR WALL SECTIONS

Project No.	Scale
214001246	1/2" = 1'-0"
Revision	Drawing No.

A301 - HGES

ORIGINAL SHEET - ARCH E1



A1
A302
HGES

WALL SECTION

1/2" = 1'-0"

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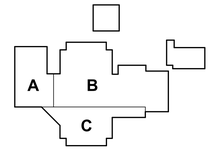

KEY PLAN

Revision | By | Appd | YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT | | | 2025.09.24
Issued | By | Appd | YYYY.MM.DD

File Name: N/A | Author Dwn. | Designer Dsgn. | Checker Chkd. | 04/18/25 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
EXTERIOR WALL SECTIONS

Project No.
214001246

Scale
1/2" = 1'-0"

Revision

Drawing No.
A302 - HGES

ORIGINAL SHEET - ARCH E1

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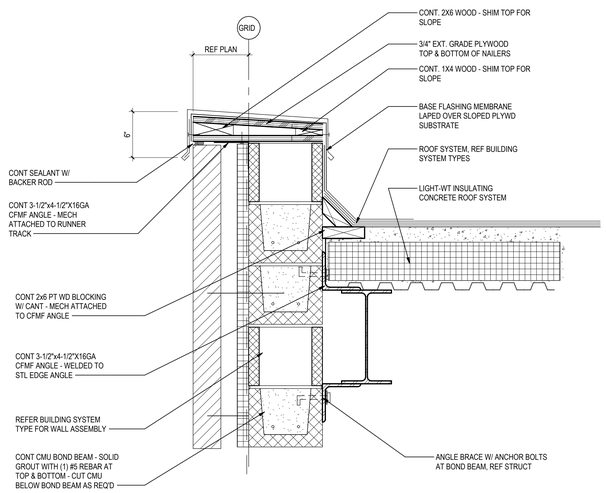
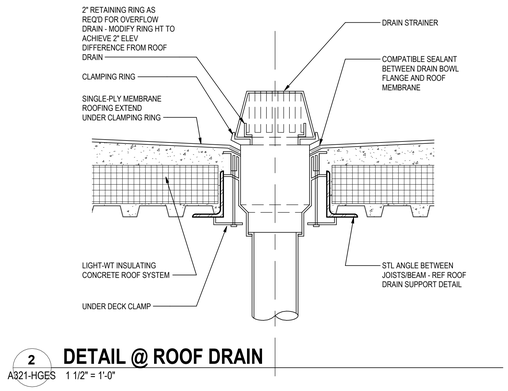
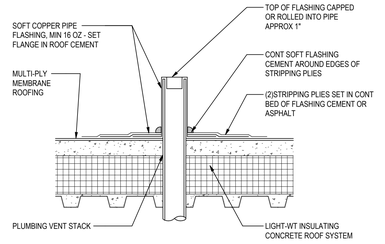


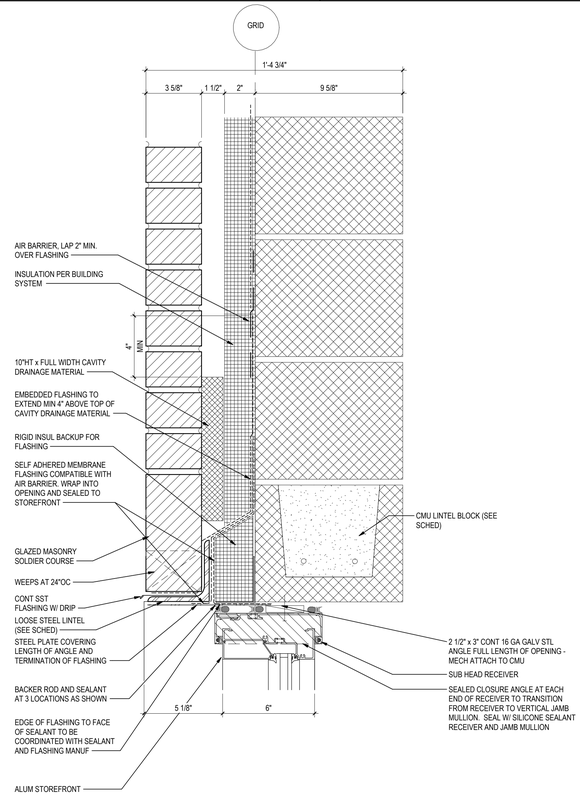
D1 DETAIL @ PARAPET
A321-HGES 1 1/2" = 1'-0"



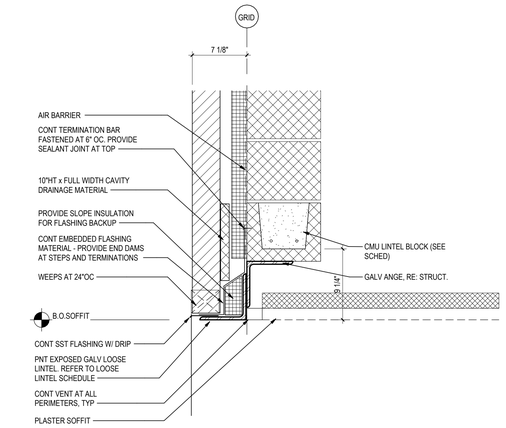
2 DETAIL @ ROOF DRAIN
A321-HGES 1 1/2" = 1'-0"



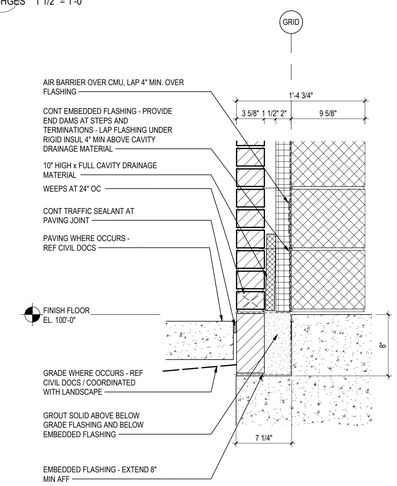
3 DETAIL @ VENT STACK
A321-HGES 1 1/2" = 1'-0"



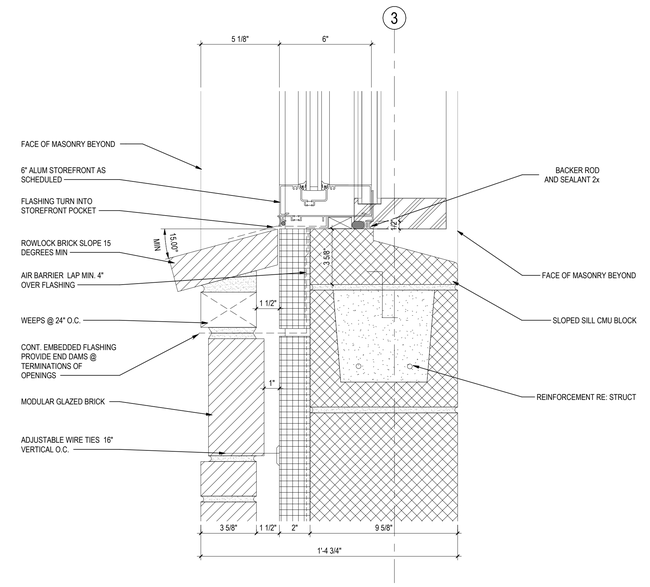
4 DETAIL @ WINDOW HEAD
A321-HGES 3" = 1'-0"



1 DETAIL @ SOFFIT
A321-HGES 1 1/2" = 1'-0"



A1 DETAIL @ BRICK LEDGE
A321-HGES 1 1/2" = 1'-0"



A4 DETAIL @ CLERESTORY WINDOW
A321-HGES 3" = 1'-0"

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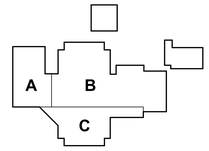


KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	04/18/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

BOND 2025
FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

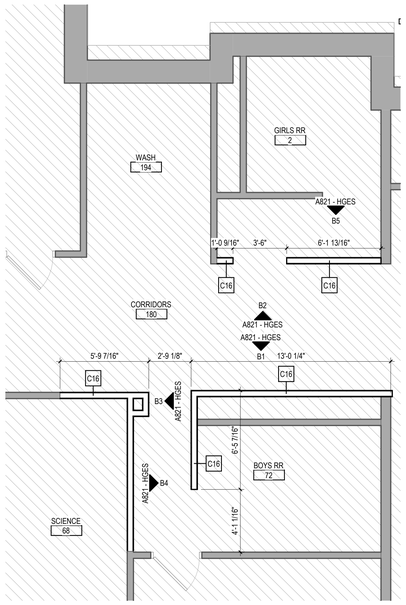
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
EXTERIOR SECTION DETAILS AND ROOF DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A321-HGES

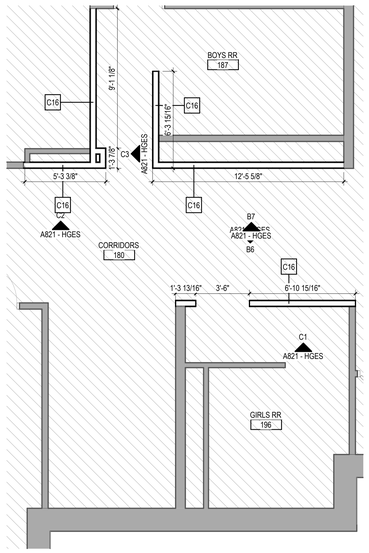
*Pick location in Project Information
1/20/2025 5:54:17 AM
ORIGINAL SHEET - ARCH E1



6 ENLARGED PLAN - PANEL REPLACE

A401 — 1/4" = 1'-0"

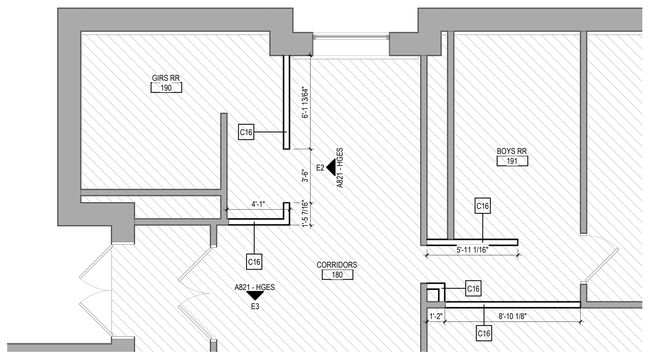
HGES



7 ENLARGED PLAN PANEL REPLACE

A401 — 1/4" = 1'-0"

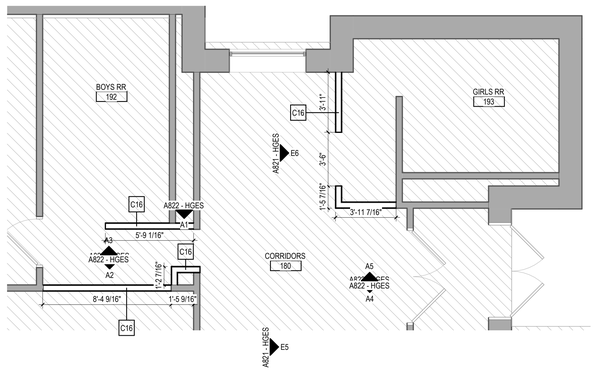
HGES



9 ENLARGED PLAN PANEL REPLACE

A401 — 1/4" = 1'-0"

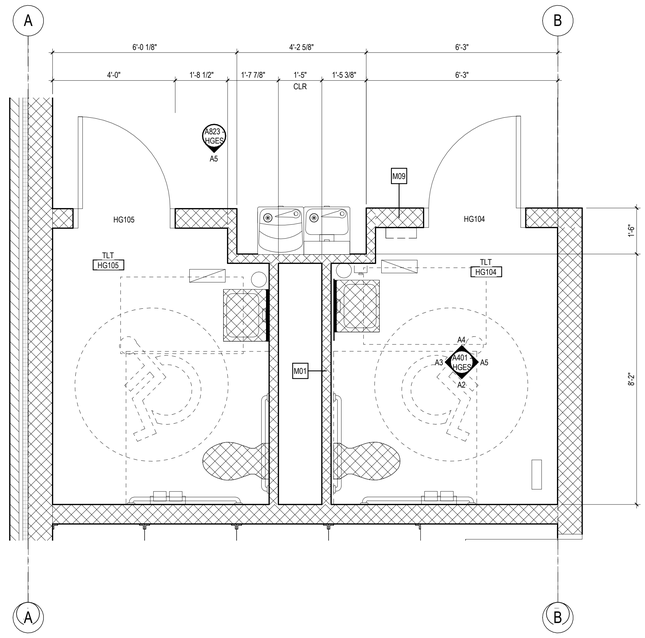
HGES



8 ENLARGED PLAN PANEL REPLACE

A401 — 1/4" = 1'-0"

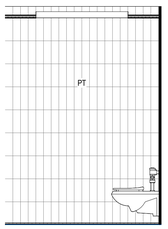
HGES



A1 GYMNASIUM RESTROOM

A401 — 1/2" = 1'-0"

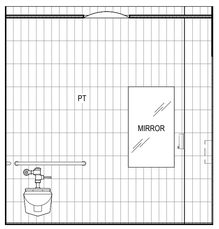
HGES



A2 RESTROOM ELEVATION

A401 — 3/8" = 1'-0"

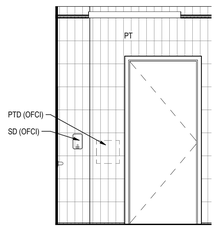
HGES



A3 RESTROOM ELEVATION

A401 — 3/8" = 1'-0"

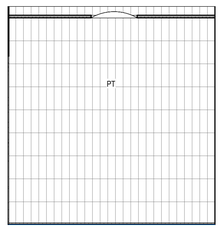
HGES



A4 RESTROOM ELEVATION

A401 — 3/8" = 1'-0"

HGES

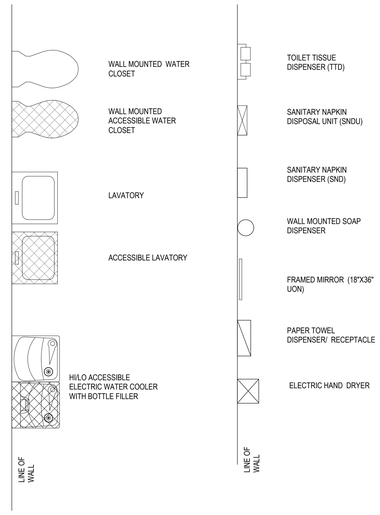


A5 RESTROOM ELEVATION

A401 — 3/8" = 1'-0"

HGES

TOILET ROOM ACCESSORY LEGEND:



GENERAL NOTES - TOILET PLANS:

1. REFER TO A007 FOR PARTITION TYPES.
2. REFER TO A100 FOR ADDITIONAL GENERAL PLAN NOTES.
3. ALL TOILET ROOM WALLS TO GO TO DECK UNO.
4. PROVIDE WALL MOUNTED DOOR STOPS IN RESTROOMS.
5. REFER TO A800's FOR INTERIOR FINISHES.
6. PROVIDE 90 DEGREE OUTSIDE CMU CORNERS BEHIND CERAMIC TILE WRAPPING AROUND OUTSIDE CORNERS.
7. TERMINATE CERAMIC TILE 2" SHORT OF CMU BULLNOSE CORNERS WHERE TILE FINISH STOPS AT OUTSIDE CORNERS.
8. EXTEND CERAMIC TILE UP TO AND AROUND MIRRORS ON WALLS WITH CERAMIC TILE WAINSCOT.

ACCESSORIES:

1. REFER TO SHEET A002 FOR TYPICAL TOILET ROOM ACCESSORIES AND FIXTURE / ACCESSORY MOUNTING HEIGHT INFO.
2. PROVIDE FIXTURES AND ACCESSORIES AT ALL SINGLE ACCESSIBLE TOILET ROOMS AND ALL TOILET STALLS AS INDICATED ON THE 'TYPICAL TOILET ROOM LAYOUTS' ON SHEET A421
3. COORDINATE INSTALLATION OF REQ'D BLOCKING AND STABILIZING FOR FIXTURES.
4. THE STRUCTURAL STRENGTH OF GRAB BARS AT ACCESSIBLE WATER CLOSETS SHALL COMPLY WITH ADA/TAS 609.8.

MIRRORS MOUNTED ABOVE SINKS OR CABINETS SHALL BE CENTERED ON FIXTURE. LOCATE THE TOPS OF THESE MIRRORS (MEASURED FROM FLOOR TO TOP MOST EDGE) AT 74" AFF

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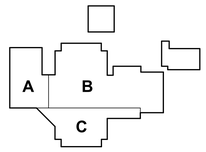

KEY PLAN

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	06/02/25 YYYY.MM.DD

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ENLARGED PLANS

Project No.
214001246

Scale
As indicated

Revision

Drawing No.
A401 - HGES

ORIGINAL SHEET - ARCH E1

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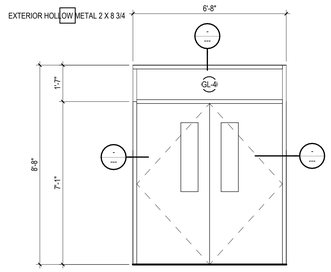
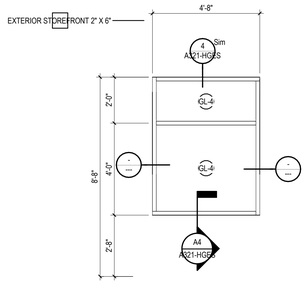
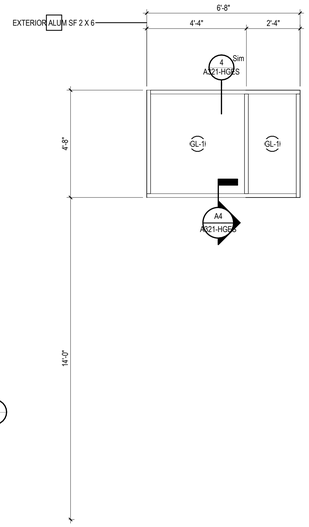


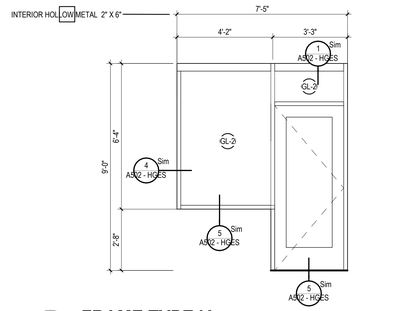
D1 A501 — **FRAME TYPE A**
3/8" = 1'-0"
HGES



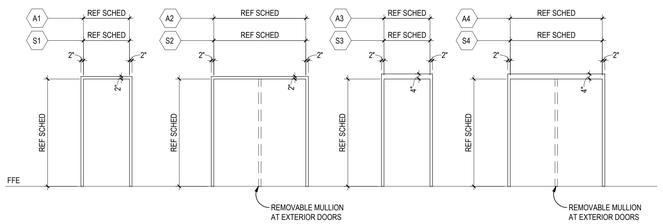
D2 A501 — **FRAME TYPE B**
3/8" = 1'-0"
HGES



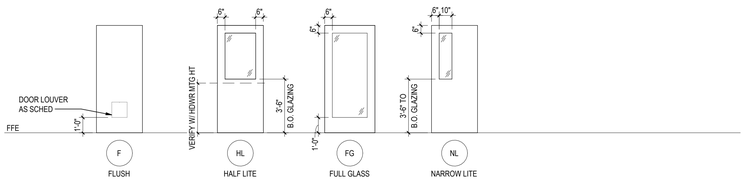
D3 A501 — **FRAME TYPE C**
3/8" = 1'-0"
HGES



D4 A501 — **FRAME TYPE iA**
3/8" = 1'-0"
HGES



5 A501 — **Frame Types**
1/4" = 1'-0"
HGES

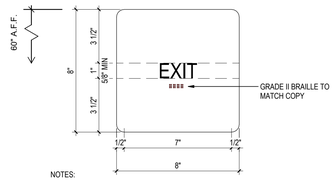


NOTES:
1. PROVIDE INSULATED LAMINATED GLAZING UNITS IN ALL EXTERIOR DOORS, UNO
2. PROVIDE ¼" CLEAR TEMPERED SAFETY GLASS IN ALL INTERIOR DOORS, UNO
3. AT DOORS MARKED AS ACOUSTICAL DOORS, PROVIDE SOUND SEALS FOR AN EQUIVALENT STC 47 DOOR

6 A501 — **Door Types**
1/4" = 1'-0"
HGES

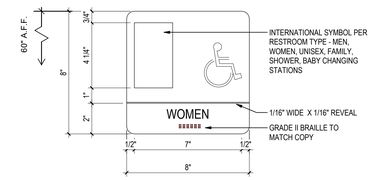
DOOR SCHEDULE-BY NUMBER

NO.	ROOM NAME	ROOM NO.	DOOR						FRAME						FIRE LABEL	HDWR SET	SEC SET	DOOR COMMENTS
			WIDTH	HEIGHT	THICK	TYPE	MAT'L	FIN	Frame Type	MAT'L	FIN	DETAILS HEAD	DETAILS JAMB	DETAILS SILL				
Level 1																		
HG100A			6'-4"	7'-0"	1 3/4"	NL	STL	PNT	RE: FRAME ELEV	STL	PNT				45 MIN			1,2,3
HG100B			6'-4"	7'-0"	1 3/4"	HL	STL	PNT	RE: FRAME ELEV	STL	STL				45 MIN			1,2,3
HG101	OFFICE	HG101	3'-0"	7'-2"	1 3/4"	FL	STL	PLAM	RE: ELEV	STL	PNT	1/A502	4/A502	5/A502				
HG102	OUTDOOR STOR	HG102	3'-0"	7'-2"	1 3/4"	F	STL	PLAM	S1	STL	PNT			5/A502	45 MIN			3
HG103	PE STOR	HG103	3'-0"	7'-2"	1 3/4"	F	STL	PLAM	S1	STL	PNT	2/A502	4/A502	5/A502				2
HG104	HALL	HG106	3'-0"	7'-2"	1 3/4"	F	STL	PLAM	S1	STL	PNT	2/A502	4/A502					7
HG105	HALL	HG106	3'-0"	7'-2"	1 3/4"	F	STL	PLAM	S1	STL	PNT	2/A502	4/A502					7
HG107			26'-0"	8'-0"			CHAINLINK			CHAINLINK		B1/AS102	B1/AS102	B1/AS102				GATE; PROVIDE KNOXBOX
HG108	IDF	HG108	3'-0"	7'-2"	1 3/4"	F	STL	PLAM	S1	STL	PNT	6/A502	7/A502	5/A502				2
HG109			4'-0"	6'-0"			CHAINLINK			CHAINLINK								GATE
HG119			5'-0"	6'-0"			VC CHAINLINK			VC CHAINLINK								GATE

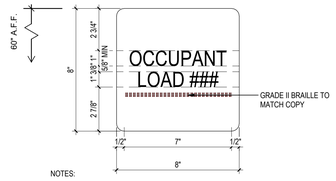


NOTES:
1. INCLUDE LOCATION SUCH AS STAIR NUMBER WHERE APPLICABLE
2. INCLUDE AREA OF REFUGE WHERE APPLICABLE, REFER TO SIGN TYPE E2

B3 A501 — **EXIT SIGN**
3" = 1'-0"
HGES

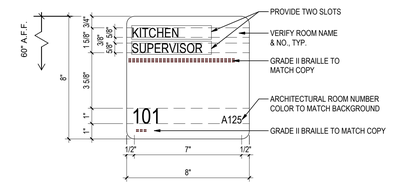


B4 A501 — **RESTROOM SIGN**
3" = 1'-0"
HGES



NOTES:
1. PROVIDE SIGN AT EACH EXIT POINT.
2. COORDINATE ON SITE TO COMPLY WITH THE REQUIREMENTS

A3 A501 — **OCCUPANT LOAD SIGN**
3" = 1'-0"
HGES



A4 A501 — **TYP. ROOM SIGNAGE**
3" = 1'-0"
HGES

GENERAL NOTES - DOORS AND WINDOWS:

1. REFER TO SHEET A501 FOR DOOR SCHEDULE.
2. REFER TO SHEET A006 AND A005 FOR LINTEL SCHEDULES AND DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE.
3. ALL INTERIOR DOORS TO BE 1 ¾" THICK *(UNO)*. EXTERIOR STOREFRONT DOORS SHALL BE 2" THICK, THERMALLY BROKEN. EXTERIOR HOLLOW METAL DOORS TO BE 1 ¾" THICK, INSULATED WITH THERMALLY BROKEN FRAMES
4. ALL STL FRAMES TO HAVE A 2" FACE DIMENSION UNO, W/ ⅝" STOP. ⅜" STOP REQUIRED FOR FIRE RATED FRAMES.
5. STEEL FRAME DEPTHS INDICATED IN THE DETAILS ARE NOMINAL. PROVIDE STANDARD WIDTH FRAME WITH THROAT OPENING APPROPRIATE TO PARTITION TYPE.
6. COORDINATE WITH MECH DOCUMENTS FOR DOOR UNDERCUTS AND DOOR LOUVERS, IF ANY.
7. ALL LITES IN DOORS TO HAVE INSULATED LAMINATED GLAZING *(UNO)*.
8. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATING FRAMES.
9. PROVIDE WD BLKG IN GYP BD WALLS BEHIND DOORS SCHEDULED TO HAVE WALL MOUNTED DOOR STOPS. *(REFER HARDWARE SCHEDULE SUBMITTAL)*.
10. REFER DTLS A1/A006 FOR TYP WINDOW AND DOOR CONTROL JOINTS IN MASONRY WALLS. REFER DTLS A2/A006 FOR TYP WINDOW AND DOOR CONTROL JOINTS IN STEEL STUD FRAMED WALLS.
11. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR.
12. PROVIDE WATER RESISTANT TREATED WOOD BLOCKING AT WINDOW SURROUND MEMBERS AS REQUIRED FOR PROPER ATTACHMENT WHERE ALUMINUM WINDOWS ARE TO BE INSTALLED.
13. AT ALL EXISTING STL FRAMES WHERE DOOR SWING IS TO BE CHANGED, PATCH, REPAIR AND GRIND SMOOTH EXISTING STL DOOR FRAME. PRIME AND USE ONLY IF FRAME IS TO BE RETAINED. PAINT ACCORDING TO FINISH SCHEDULE SHEET A801.
14. DOOR HARDWARE *(CLOSERS, LEVERS, PANIC HARDWARE, ETC.)* SHALL NOT CONFLICT WITH THE GLASS OR TRIM FOR THE LITE.

GLAZING LEGEND

GL-1 - 1 5/16" INSULATED LAMINATED GLAZING

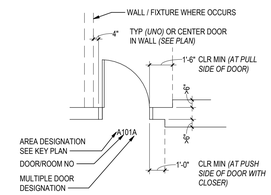
GL-2 - 9/16" LAMINATED GLAZING

GL-3 - 1/4" CLEAR TEMPERED GLAZING

GL-4 5/8" FIRE RATED LAMINATED INSULATED GLAZING UNIT

GL-5 1-3/4" 45 MIN INSULATED LAMINATED GLAZING

DOOR MARK KEY



DOOR SCHEDULE REMARKS:

1. PROVIDE REMOVABLE MULLION.
2. REFER TO ELECTRICAL DOCUMENTS FOR POWER FOR CARD KEY ACCESS. AT DOUBLE DOORS PROVIDE ELECTRIC STRIKE AT REMOVABLE MULLION.
3. PROVIDE DRIP AT HEAD OF DOOR
4. MANUAL OPERATED, TYPICAL.
5. MOTOR OPERATED, TYPICAL. REFER TO MEP DOC.
6. PREMANUFACTURED DOOR AND FRAME ASSEMBLY. PROVIDE PLAM FACING COLOR AS SCHEDULED ON SHEET A601. REFER TO ELECTRICAL DOCUMENTS FOR HOLD-OPEN DEVICES.
7. PROVIDE 2" WIDE ADA COMPLIANT MARBLE THRESHOLD WITH CHAMFERED EDGES AT ENTRY DOOR.
8. FIELD VERIFY ROUGH OPENING PRIOR TO DOOR FABRICATION.

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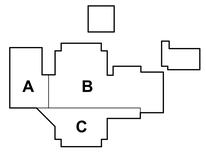
Notes



KEY PLAN

Revision

	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/02/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

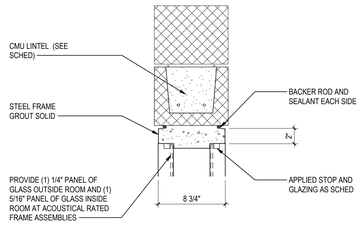
Title
FRAME ELEVATIONS & DOOR SCHEDULE

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A501 - HGES

<Doc location in Project Information>
12/2/2025 5:56:30 AM

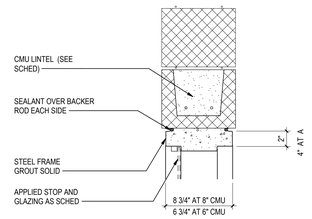
ORIGINAL SHEET - ARCH E1



1 A502 HM HEAD @ CMU ACOUSTIC

1 1/2" = 1'-0"

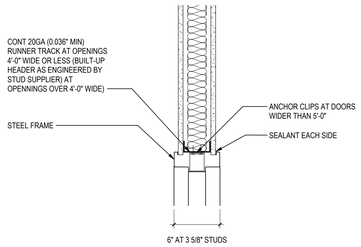
HGES



2 A502 HM HEAD @ CMU

1 1/2" = 1'-0"

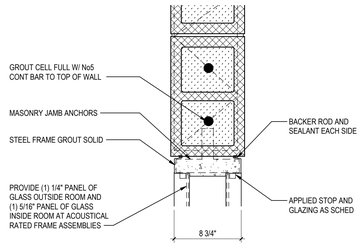
HGES



6 A502 HM HEAD @ GYP

1 1/2" = 1'-0"

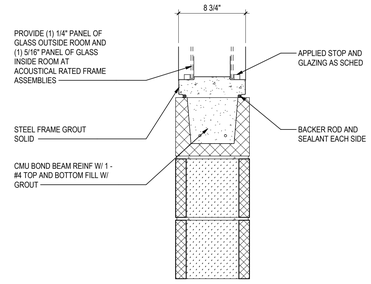
HGES



4 A502 HM JAMB @ CMU

1 1/2" = 1'-0"

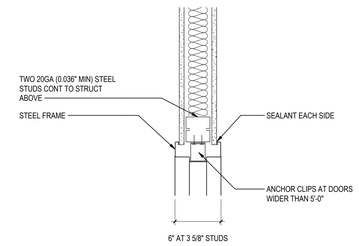
HGES



3 A502 SILL @ STL & CMU

1 1/2" = 1'-0"

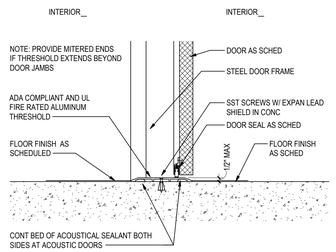
HGES



7 A502 HM JAMB @ GYP

1 1/2" = 1'-0"

HGES



5 A502 SILL @ HM DOORS

1 1/2" = 1'-0"

HGES

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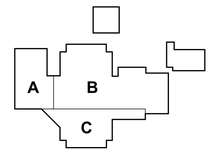


KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	06/02/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE GUNN 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

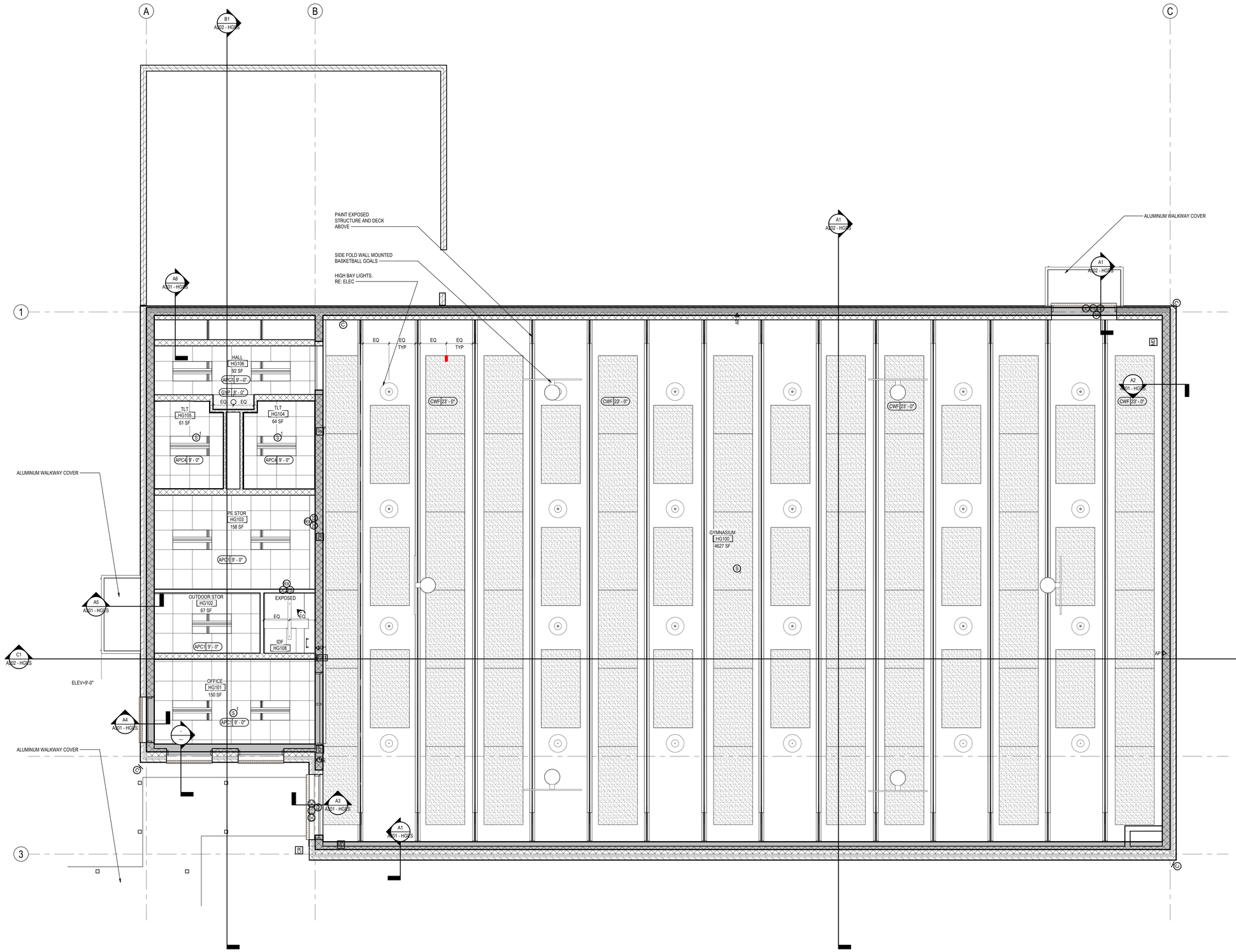
HEAD, JAMB, SILL DETAILS

Project No.	Scale
214001246	1 1/2" = 1'-0"

Revision | Drawing No.

A502 - HGES

ORIGINAL SHEET - ARCH E1



A1 GYMNASIUM REFLECTED CEILING PLAN

A601

1/4" = 1'-0"

HGES

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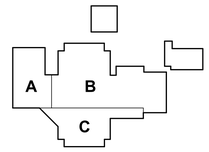


KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE DINH 28296 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

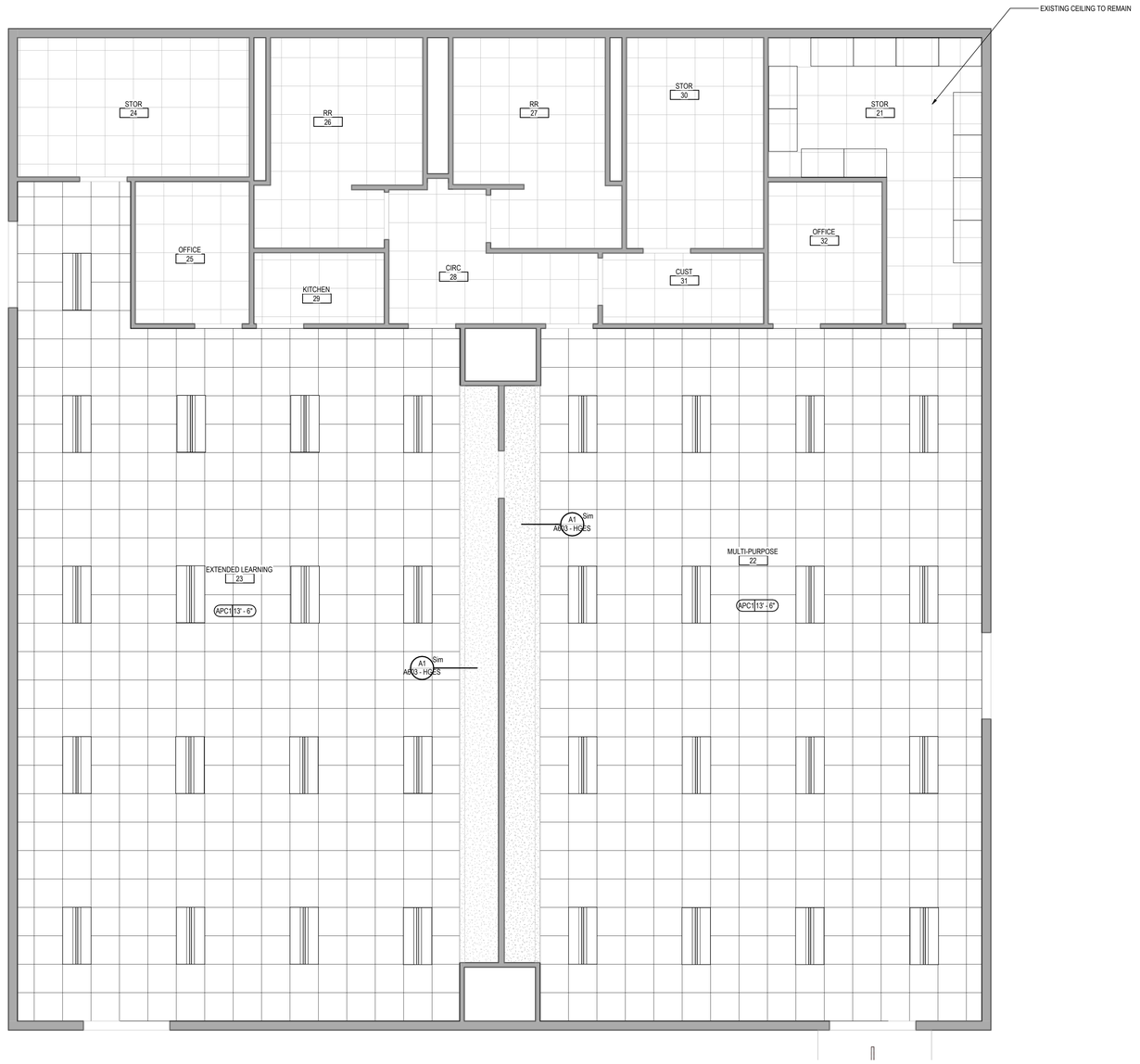
GYMNASIUM REFLECTED CEILING PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A601 - HGES

ORIGINAL SHEET - ARCH E1

•Plot location in Project Information
•05/2023 5:54:33 AM



A1
A602
HGES

REFLECTED CEILING PLAN - ELP

1/4" = 1'-0"

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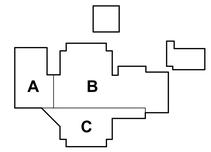

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File Name: N/A	Author	Designer	Checker	12/07/24
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Permit/Seal

REGISTERED ARCHITECT
DANIELLE DINH
28296
STATE OF TEXAS

Client/Project Logo

2023 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

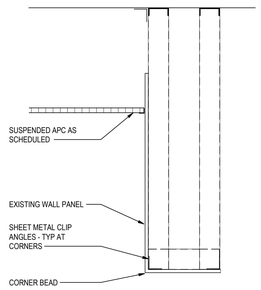
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ELP REFLECTED CEILING PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A602 - HGES

ORIGINAL SHEET - ARCH E1



A1 / A603 **NEW CEILING AT EXISTING BUILDING**

1" = 1'-0"

HGES

*Pick location in Project Information
1/20/2025 5:54:24 AM

ORIGINAL SHEET - ARCH E1

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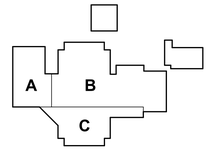

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File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2024 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

CEILING DETAILS

Project No.	Scale
214001246	1" = 1'-0"
Revision	Drawing No.

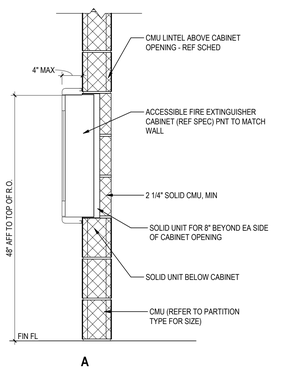
A603 - HGES

Interior Material Schedule - AIA Materials Pledge

TYPE MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COMMENTS	Declare Label	Environmental Product Declaration	Health Product Declaration	CERTIFICATIONS	AIA MATERIALS PLEDGE				
									Human Health	Social Health & Equity	Ecosystem Health	Climate Health	Circular Economy
APC - 1	ACOUSTIC PANEL CEILING	ARMSTRONG	SCHOOL ZONE FINE FISSURED		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
APC - 4	ACOUSTIC PANEL CEILING	ARMSTRONG	CLEAN ROOM VL NO. 870	RESTROOMS	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
AWP	ACOUSTIC WALL PANEL	ARMSTRONG	ACOUSTIC WALL PANELS	REPLACEMENT FABRIC/PANELS FOR DAMAGED PANEL IN EXISTING ELP	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CG-1	CORNER GUARD	KOROGUARD	SNAP ON PVC		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CPT - 1	CARPET	TARKETT	POWERBOND BROADLOOM		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CWF - 1	CEMENTITIOUS WOOD FIBER PANEL CEILING	ARMSTRONG	TECTUM PANELS	GYMNASIUM	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
GYP-1	GYPSUM CEILING	ARMSTRONG			Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
HLB-1	HORIZONTAL LOUVER BLING				Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
LVT - 1	VINYL TILE FLOORING	MOHAWK	connectD 5.0 C2116		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
MT-1	METAL TRIM	SCHLUTER - AHK	METAL TRIM FOR PORCELAIN TILE WALL TO FLOOR TRANSITION		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
MT-2	METAL TRIM	SCHLUTER - JOLLY	METAL TRIM FOR PORCELAIN WAINSCOT TOP		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 1	PAINT	SHERWIN WILLIAMS		CORRIDOR WALLS WITH VINYL WALL COVERING	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 2	PAINT	SHERWIN WILLIAMS		EPOXY PAINT AT CMU WALLS	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 3	PAINT	SHERWIN WILLIAMS		FIELD PAINT AT INTERIOR WALLS EXISTING	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 4	PAINT	SHERWIN WILLIAMS		ACCENT PAINT	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PT-1	PORCELAIN TILE	DALTILE	PORTFOLIO - 6 X 24	WAINSCOT	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PT-2	PORCELAIN TILE	DALTILE	PORTFOLIO - 12 X 24	WAINSCOT	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PT-3	PORCELAIN TILE	DALTILE	PORTFOLIO - 2 X 2	RESTROOM FLOOR	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RAF - 1	RESILIENT ATHLETIC FLOORING	TARKETT	OMNISPORTS MULTI-USE 6.2 MM	GOLDEN MAPLE	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RB - 1	RUBBER BASE	JOHNSONITE	6"	NEW 6" RUBBER BASE TO COVER DAMAGED WALL VINYL WHEN REMOVING OLD RUBBER BASE	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RB - 2	RUBBER BASE	JOHNSONITE	4"	NEW 4" RUBBER BASE AT CMU WALLS	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
SC-1	SEALED CONCRETE				Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
VWC-1	VINYL WALL COVERING	KOROSEAL	VPBC-01 BUECHEL	52-54" ROLL WIDTH	Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
WP-1	PROTECTIVE WALL PADDING	PORTER	90350-326		Yes	Yes	Yes	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•

FINISH SCHEDULE-GYM

NUMBER	NAME	DEPARTMENT	AREA	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
HG100	GYMNASIUM		4626.79 SF	RAF	RB-2	PNT-2	EXPOSED	
HG101	OFFICE		150.11 SF	LVT	RB-2	PNT-2	APC-1	
HG102	OUTDOOR STOR		66.69 SF	S CONC	RB-2	PNT-2	EXPOSED	
HG103	PE STOR		158.34 SF	S CONC	RB-2	PNT-2	APC-1	
HG104	TLT		63.54 SF	PT	PT	PT	GYP	
HG105	TLT		61.24 SF	PT	PT	PT	GYP	
HG106	HALL		91.57 SF	PT	RB-2	PNT-2	APC-1	
HG107	MECH CHASE		33.45 SF	S CONC	N/A	N/A	EXPOSED	
HG108	IDF		32.19 SF					
HG109	MECH YARD		728.81 SF					
HG109	CLASSROOM		820.85 SF					



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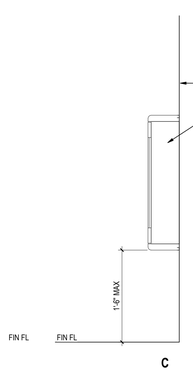

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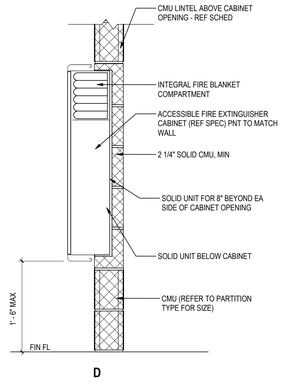

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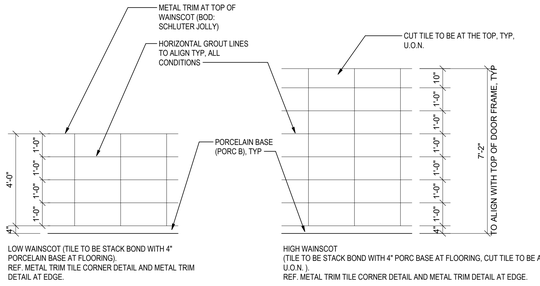
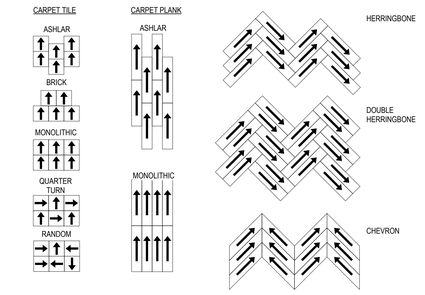
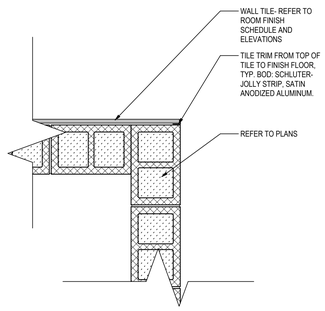




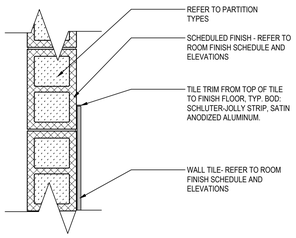
C1 FIRE EXTINGUISHER CABINETS
C1 / A801 — 1" = 1'-0" — HGES

C2 WAINSCOT DETAILS
C2 / A801 — 3/8" = 1'-0" — HGES

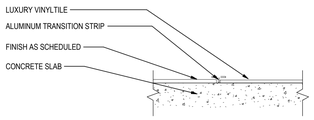
C3 INSTALLATION METHOD
C3 / A801 — 12" = 1'-0" — HGES



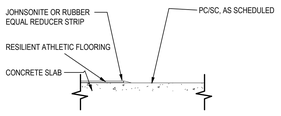
B1 CORNER TRIM @ WAINSCOT
B1 / A801 — 1" = 1'-0" — HGES



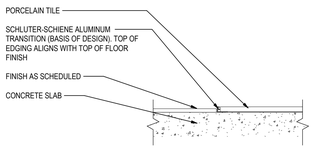
A1 WAINSCOT DETAIL
A1 / A801 — 1" = 1'-0" — HGES



B3 FLOOR TRANSITION RAF TO LVT
B3 / A801 — 3" = 1'-0" — HGES



B2 FLOOR TRANSITION REDUCER TO SUBFLOOR
B2 / A801 — 1" = 1'-0" — HGES



A2 FLOOR TRANSITION RAF TO PT
A2 / A801 — 3" = 1'-0" — HGES

GENERAL NOTES - INTERIOR FINISH AND COLOR SCHEDULE:

1. MANUFACTURERS NAMES AND IDENTIFICATION NUMBERS ARE LISTED AS A MEANS OF ESTABLISHING A STANDARD OF TYPE, FUNCTION, COLOR, AND QUALITY. REFER TO PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS & PROCEDURES.
2. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SAMPLE OF ALL FINISH MATERIALS FOR APPROVAL BEFORE MATERIALS ARE APPLIED ON THE JOB.
3. VERIFY ALL GRAPHICS WITH THE ARCHITECT BEFORE PAINTING. GRAPHICS MAY NEED TO BE ADJUSTED AFTER ENLARGING TO REFLECT THE SAME COMPOSITION AS ON THE DRAWINGS.
4. IF REQUESTED THE ARCHITECT WILL PROVIDE 8 1/2" X 11" CLEAR ACETATE OR MYLAR OF DETAILED MURAL GRAPHICS FOR PROJECTION ON WALL.
5. TERMINATE ALL ACCENT PAINTS & VINYL WALL COVERING ON INSIDE CORNERS ONLY UNLESS OTHERWISE INDICATED.
6. PAINT ALL INTERIOR & EXTERIOR EXPOSED PIPING. VERIFY COLOR W/ ARCHITECT.
7. PAINT ANY VENTS, GRILLES, PIPING, FEC, ETC... SAME COLOR AS ADJACENT WALL.

XX1 COLORS WILL BE MARKED AS SHOWN. NOTE ALL COLORS MAY NOT BE MARKED ON PLANS. MATERIALS NOT NOTED WILL BE COVERED UNDER GENERAL NOTES OR WILL BE PICKED ON THE JOB BY THE ARCHITECT.

8. ALL CARPET SHALL BE MARK "CPT-1"
9. UNDESIGNATED PAINTED GYPSUM BOARD WALLS TO BE FIELD PAINT "PNT-1".
10. UNDESIGNATED PAINTED CMU WALLS TO BE MARK EPOXY FIELD PAINT "PNT-2".
11. ALL INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED TO MATCH ACCENT PAINT "PNT-3" (U.O.N.). ALL VISION PANEL FRAMES IN INTERIOR DOORS TO MATCH ACCENT PAINT "PNT-3".
12. ALL MISC. CASE WORK SHALL BE MARK "PL-1".
13. ALL WALLS SCHEDULED IN RESTROOMS TO RECEIVE PORCELAIN TILE :
14. FLOOR TILE IN ALL BOYS, GIRLS, AND TLT ROOMS SHALL BE PORCELAIN
15. ALL EXPOSED STRUCTURAL STEEL INCLUDING ROOF DECK, JOISTS, GIRDERS, BEAMS AND ANY MISC. STEEL SHALL BE PAINTED MARK "PNT-1". DUCTS, DIFFUSERS AND AIR HANDLING UNITS SHALL BE GALVANIZED METAL.
16. REFER TO DRAWING A901 FOR GAME LINES, COLORS, SIZE AND LOCATION.
17. LOW PROFILE TRANSITION STRIPS TO BE PLACED AT ANY FLOORING MATERIAL CHANGE.
18. METAL LOW PROFILE TRANSITION STRIPS TO BE PLACED AT ANY FLOORING MATERIAL CHANGE ADJACENT TO PT.
19. REFER TO FINISH SCHEDULE FOR PT-1 GROUT TYPE IN ALL BATHROOM
20. CERAMIC WALL/FLOOR TILE GROUT SHALL BE GT-1.
21. SEAL ALL EXPOSED JOINTS BETWEEN DISSIMILAR MATERIALS INCLUDING, BUT NOT LIMITED TO: BETWEEN WALLS AND CASEWORK/ MILLWORK, WINDOW SILLS, BACKSPLASHES, PLUMBING FIXTURES, FIRE EXTINGUISHER CABINETS; WINDOW SILLS TO WINDOW FRAMES; RESILIENT FLOORING TO STAIR STRINGERS AND RISERS; BACKSPLASHES TO COUNTER TOPS; ETC. VERIFY SEALANT TYPE AND COLOR FOR EACH APPLICATION WITH ARCHITECT PRIOR TO INSTALLATION.

GENERAL NOTES - FURNISHING AND EQUIPMENT:

1. MODEL NUMBERS/MFR'S ARE LISTED ON CASEWORK ELEVATIONS SO THAT A MINIMUM DESIGN BASIS MAY BE ESTABLISHED. THE DIMENSIONS SHOWN (WXHXD) MAY DIFFER FROM THE SELECTED MFR'S STANDARD DIMENSIONS FOR THE LISTED MODEL NUMBERS.
2. PROVIDE SIDE, TOP, AND BOTTOM FILLER PIECES AS REQ'D TO COMPLETE CASEWORK INDICATED ON PLANS.
3. ALL FLOOR MOUNTED FIXTURES ARE TO HAVE THE SAME FINISH FACE MATERIAL AS THE ROOM IN WHICH THEY ARE LOCATED.
4. BLIND CABINETS, AT CORNERS, ARE TO BE LEFT OR RIGHT HAND AS REQ'D PER PLAN.
5. ALL CABINETS TO HAVE PLASTIC LAMINATE THROUGHOUT, INCLUDING ALL EXPOSED SUFACES INSIDE AND OUT.
6. PROVIDE PLASTIC LAMINATE FINISHED END PANELS AT EXPOSED CABINET ENDS INCLUDING KNEESPACES (TYP).
7. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF ANY FIXTURES.
8. BOOKCASES AND SHELVES TO HAVE FRONT FACING SURFACE OF BACK PANEL TO WATCH FINISH OF REMAINDER OF BOOKCASE.
9. COUNTERTOPS TO HAVE PLASTIC LAMINATE SURFACE W/ 4" HIGH BACKSPLASH TYP, UON.
10. PROVIDE KEYED LOCKS AT CABINET DOORS AND DRAWERS, WHERE INDICATED.
11. PROVIDE MFR'S STANDARD PENCIL DRAWER INSERT AT KNEESPACE UNITS W/ STANDARD DRAWERS (NOT KEYBOARD DRAWERS (UON).
12. PROVIDE CORNER GUARDS FROM TOP OF BASE TO TOP OF DOOR FRAME: PROVIDE FIRE RATED CORNER GUARD AT RATED WALLS (MODEL NUMBERS ARE NON RATED) MFR'S BY IN-PRO CORP. (DESIGN BASIS).

. SURFACE STYLE:
STAINLESS STEEL:
ALL OUTSIDE CORNERS OF GYPSUM BOARD CONST- 2X2X16 GA (TYPE 304) (SURFACE)
VINYL - TYPE 150BN 2X2 (SURFACE)

13. SHELVES SHALL BE ADJUSTABLE (UON). SHELVES OVER 36" IN LENGTH SHALL BE 1" THICK.
14. PROVIDE 4'-0" TALL TACKBOARDS, AND MARKERBOARDS (UON). BOARDS SHALL BE IN THE SAME FRAME WHEN ADJACENT.
15. MKBDS, AND TKBDS TO HAVE CONT TACKSTRIPS AND PEN TROUGHS (UON). TACKSTRIPS TO HAVE MAP HOOKS (UON).
16. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL INTERIOR WINDOWS (UON).
17. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL EXTERIOR WINDOWS, EXCEPT WINDOWS SHARING A FRAME WITH A DOOR (UON).

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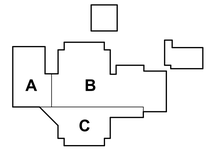

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

Client/Project Logo

2023 BOND — FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
INTERIOR MATERIAL SCHEDULE

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A801 - HGES

<Pick location in Project Information>
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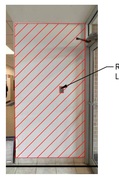
ORIGINAL SHEET - ARCH E1

E1 A821 HGES — **RE-COVER VINYL**

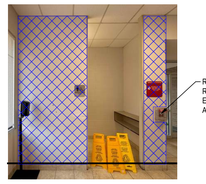
E2 A821 HGES — **REPLACE PARTITION**



E3 A821 HGES — **RE-COVER VINYL**

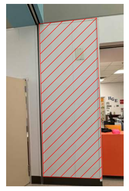
E4 A821 HGES — **RE-COVER VINYL**

E5 A821 HGES — **RE-COVER VINYL**



E6 A821 HGES — **REPLACE PARTITION**

D1 A821 HGES — **RE-COVER VINYL**



D2 A821 HGES — **RE-COVER VINYL**

D3 A821 HGES — **RE-COVER VINYL**

D4 A821 HGES — **RE-COVER VINYL**

D5 A821 HGES — **RE-COVER VINYL**

D6 A821 HGES — **RE-COVER VINYL**

D7 A821 HGES — **DAMAGED VINYL**

C1 A821 HGES — **REPLACE PARTITION**

C2 A821 HGES — **REPLACE PARTITION**

C3 A821 HGES — **REPLACE PARTITION**

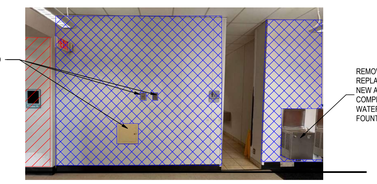
C4 A821 HGES — **RE-COVER VINYL**

C5 A821 HGES — **RE-COVER VINYL**

C6 A821 HGES — **RE-COVER VINYL**

C7 A821 HGES — **RE-COVER VINYL**

C8 A821 HGES — **RE-COVER VINYL**



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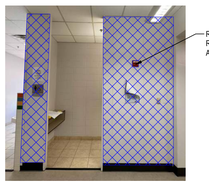

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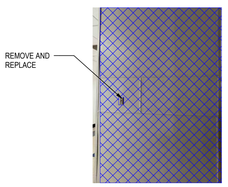
B3 A821 HGES — **REPLACE PARTITION**



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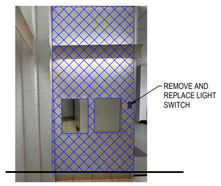

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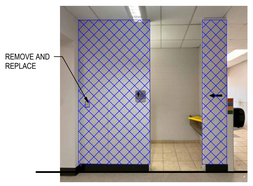

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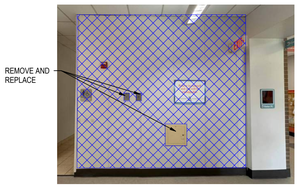
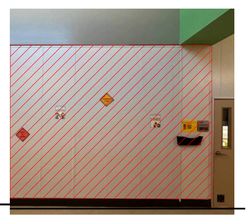


B7 A821 HGES — **REPLACE PARTITION**

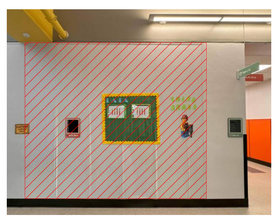
A1 A821 HGES — **RE-COVER VINYL**

A2 A821 HGES — **RE-COVER VINYL**



A3 A821 HGES — **RE-COVER VINYL**

A4 A821 HGES — **RE-COVER VINYL**



A5 A821 HGES — **RE-COVER VINYL**

A6 A821 HGES — **RE-COVER VINYL**

A7 A821 HGES — **RE-COVER VINYL**

A8 A821 HGES — **RE-COVER VINYL**

LEGEND

COVER DAMAGED PANELS WITH NEW VWC **(180 PANELS APROX.) GC TO VERIFY IN FIELD.**

REPLACE WITH NEW PARTITION AND COVER WITH NEW VWC (REFER TO FLOOR PLAN) **(65 PANELS APROX.) GC TO VERIFY IN FIELD.**

(VWC) - REFER TO MATERIAL SCHEDULE A800

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.

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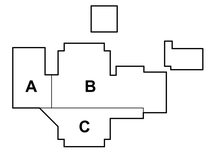

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT · DANIELLE PUNA · 28296 · STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
EXISTING CLASSROOM BUILDING - VINYL

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A821 - HGES

ORIGINAL SHEET - ARCH E1

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COVER DAMAGED PANELS WITH NEW VWC **(180 PANELS APROX.) GC TO VERIFY IN FIELD.**
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(VWC) - REFER TO MATERIAL SCHEDULE A800

GENERAL NOTES
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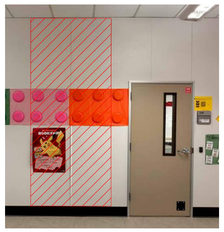
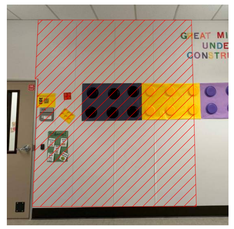


D1 A822 **RE-COVER VINYL**
HGES



D2 A822 **RE-COVER VINYL**
HGES

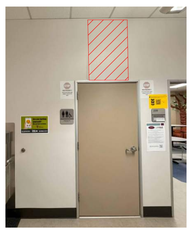
D3 A822 **RE-COVER VINYL**
HGES

D4 A822 **RE-COVER VINYL**
HGES

C1 A822 **RE-COVER VINYL**
HGES

C2 A822 **RE-COVER VINYL**
HGES

C3 A822 **RE-COVER VINYL**
HGES



C4 A822 **RE-COVER VINYL**
HGES

C5 A822 **RE-COVER VINYL**
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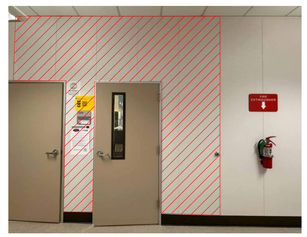

C6 A822 **RE-COVER VINYL**
HGES

B1 A822 **RE-COVER VINYL**
HGES

B2 A822 **RE-COVER VINYL**
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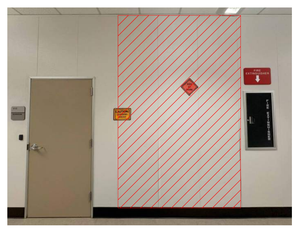
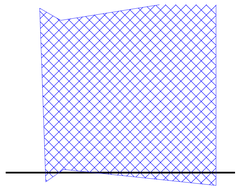
B3 A822 **RE-COVER VINYL**
HGES



B4 A822 **RE-COVER VINYL**
HGES

B5 A822 **RE-COVER VINYL**
HGES

A1 A822 **REPLACE PARTITION**
HGES



A2 A822 **REPLACE PARTITION**
HGES

A3 A822 **REPLACE PARTITION**
HGES

A4 A822 **RE-COVER VINYL**
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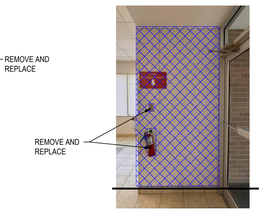

A5 A822 **REPLACE PARTITION**
HGES

A6 A822 **RE-COVER VINYL**
HGES

A7 A822 **RE-COVER VINYL**
HGES

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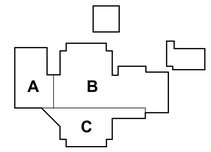

KEY PLAN

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Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE DUNN 28298 STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
EXISTING CLASSROOM BUILDING - VINYL

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A822 - HGES

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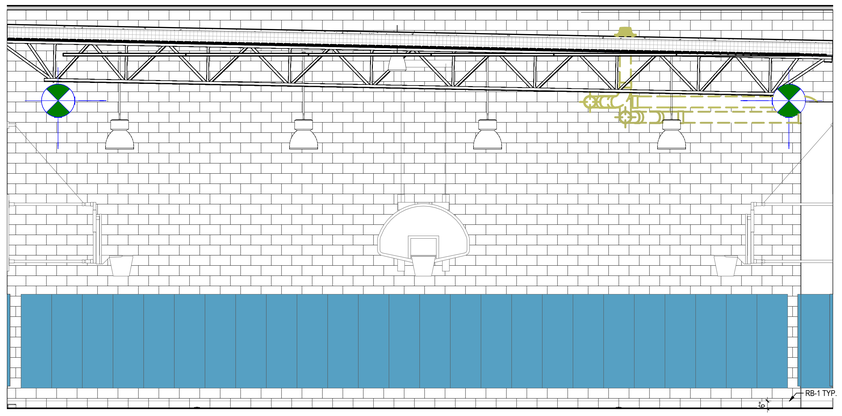
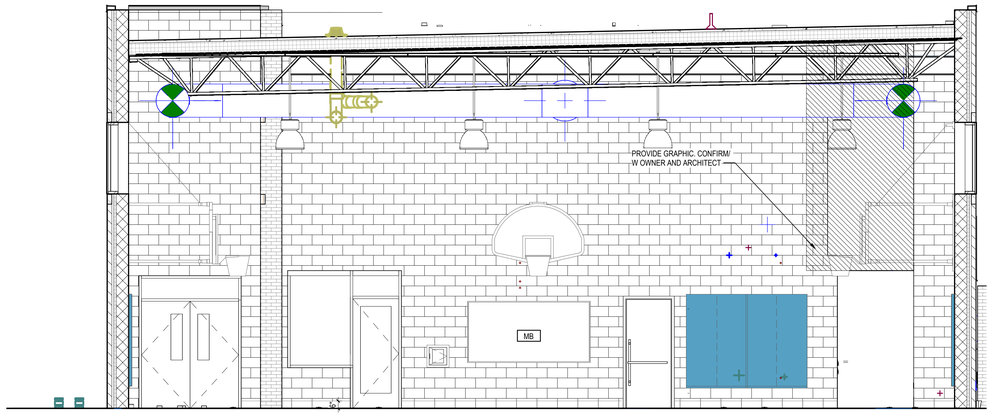


D1 A823 — **INTERIOR ELEVATION - GYM**

1/4" = 1'-0"

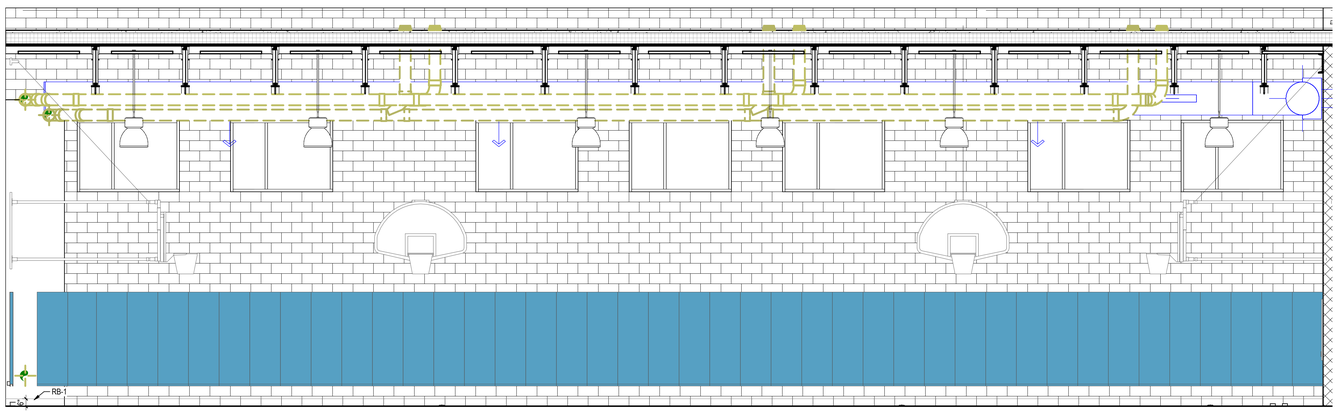
HGES



D3 A823 — **INTERIOR ELEVATION - GYM**

1/4" = 1'-0"

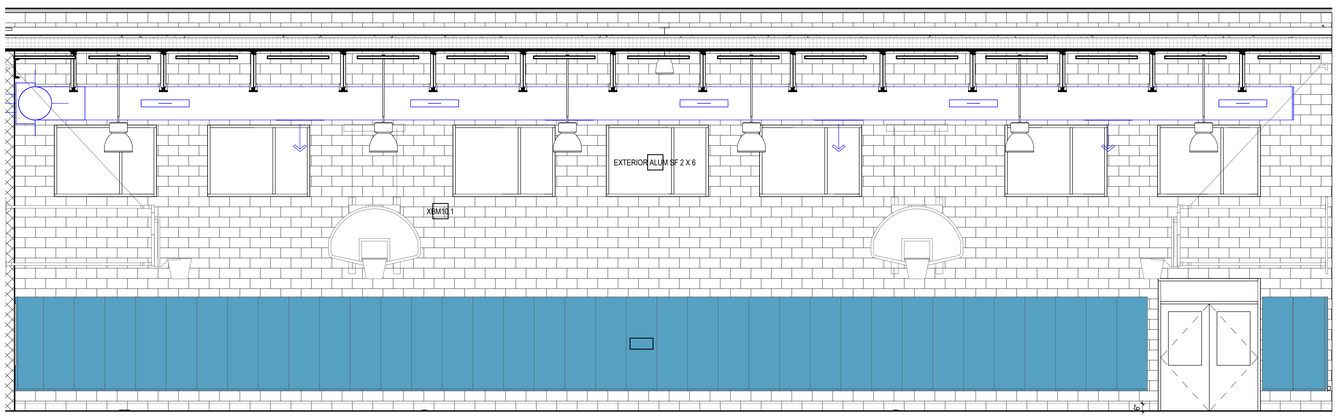
HGES



B1 A823 — **INTERIOR ELEVATION - GYM**

1/4" = 1'-0"

HGES



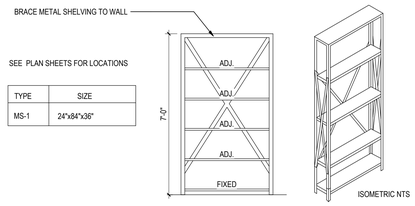
A1 A823 — **INTERIOR ELEVATION - GYM**

1/4" = 1'-0"

HGES

GENERAL NOTES - ROOM FINISHES:

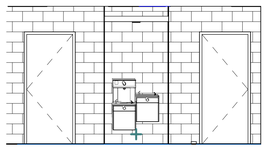
1. (#) IN REMARKS COLUMN OF ROOM FINISH SCHEDULE REFERENCES THE SPECIFIC ROOM FINISH SCHEDULE REMARKS.
2. COORDINATE INTERIOR FINISHES WITH PARTITION TYPES.
3. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR (UON)
4. PAINT EXPOSED JOISTS, DECK, & ALL MISC. ITEMS, TYP. REFER TO GENERAL FINISH SCHEDULE NOTES ON A801
5. REFER TO LIGHTING PLANS & REFLECTED CEILING PLAN SHEETS FOR ACP TYPE/HEIGHT, CEILING GRID LAYOUT & BULKHEAD LOCATIONS (U.O.N.). REFER MEP DOCS.
6. PROVIDE CJ's AT GYP. BD. CEILINGS AT 50'-0"OC MAX. (U.O) PROVIDE CJ's AT WALLS/BLKHDS AT 30'-0"OC MAX. (U.O.N.)
7. ALL SUSPENDED GYP. BD. TO BE PAINTED. REFER REFLECTED CEILING PLANS AND GENERAL FINISH SCHEDULE NOTES ON A601.
8. SEE FLOOR PATTERN PLANS FOR EXTENTS AND TYPE OF FLOORING FINISHES
9. ALL CMU TO BE PAINTED. REFER GENERAL FINISH SCHEDULE NOTES ON A801
10. PROVIDE ADA COMPLIANT MARBLE THRESHOLD 2" WIDE W/ CHAMFERED EDGES AT ENTRY DOOR OR FLOORING TRANSITION AT RESTROOMS AND TOILETS.
11. BLOCK FILL AND PAINT ALL WALLS TO DECK AND BEHIND ACOUSTICAL WALL PANELS, TYP.
12. AT IDF ROOMS CONTINUOUS PTD 1/2" PLYWOOD OVER SCHEDULED PARTITION TYPE, FROM CEILING DOWN 8' ALL AROUND ROOM.



1 A823 — **METAL SHELVING**

3/8" = 1'-0"

HGES



A5 A823 — **INTERIOR ELEVATION**

1/4" = 1'-0"

HGES

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Consultant

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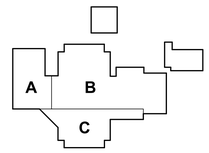


KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	06/02/25 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

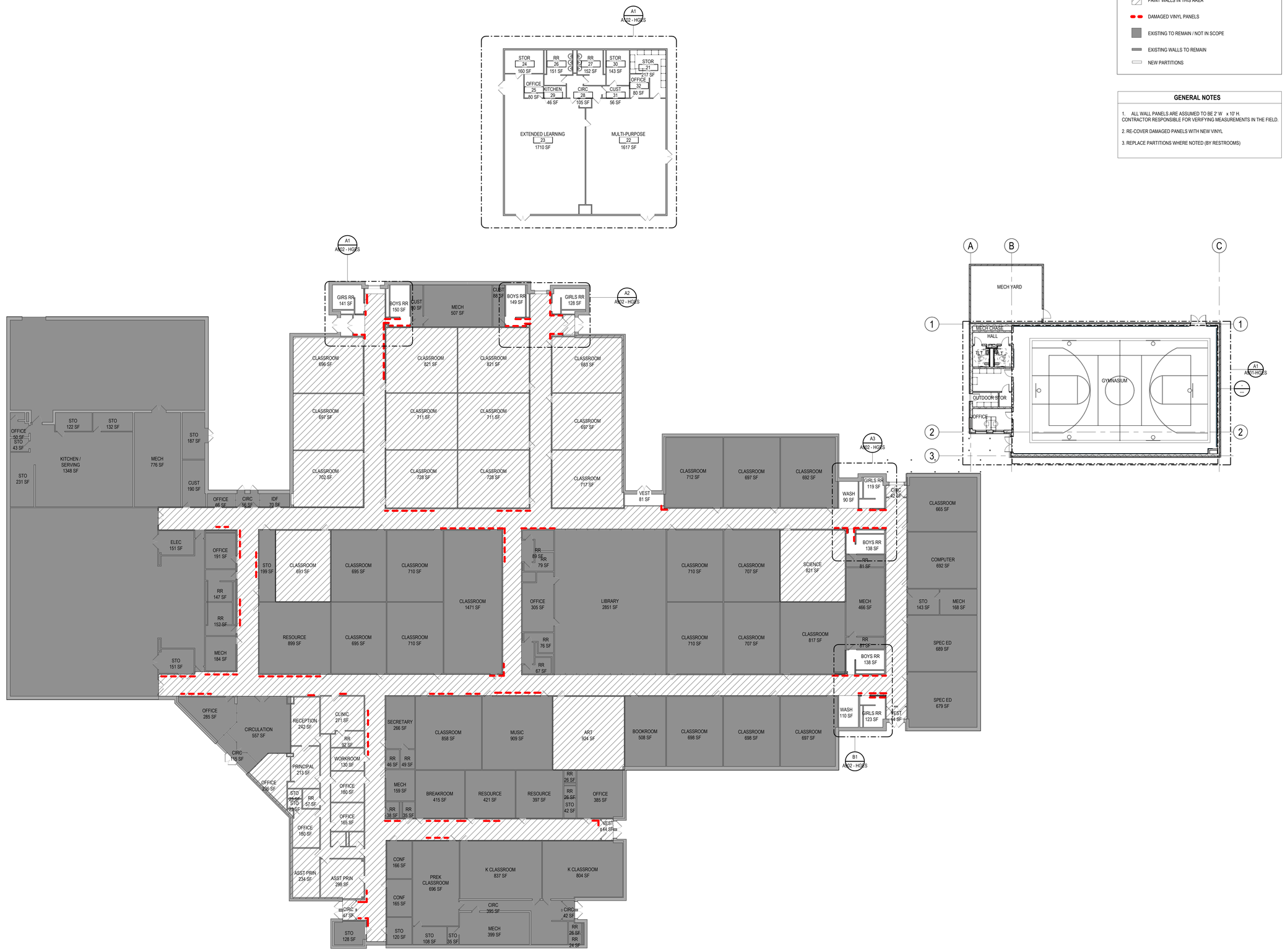
INTERIOR ELEVATIONS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A823 - HGES

*Plot location in Project Information
1/31/2025 5:54:34 AM

ORIGINAL SHEET - ARCH E1



LEGEND

- PAINT WALLS IN THIS AREA
- DAMAGED VINYL PANELS
- EXISTING TO REMAIN / NOT IN SCOPE
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.
2. RE-COVER DAMAGED PANELS WITH NEW VINYL
3. REPLACE PARTITIONS WHERE NOTED (BY RESTROOMS)

KEY PLAN

A1 / A900 - HGES

FINISH PLAN - VINYL AND PAINT

1/16" = 1'-0"

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Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author: Dwn.	Designer: Dsgn.	Checker: Chkd. 11/13/24 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

FINISH PLAN - VINYL AND PAINT

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A900 - HGES

*Plot location in Project Information
1/20/2025 5:54:38 AM

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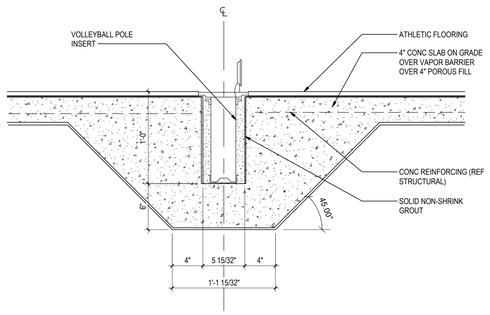


D1 VOLLEYBALL POLE INSERTS

A901-HGES 1 1/2" = 1'-0"

GYM FLOOR NOTES:

1. ALL DIMENSION LINES ARE TO THE INSIDE FACE OF THE LINE (U.O.N.).

2. ALL BASKETBALL COURT MARKINGS AND LINES SHALL BE 2" WIDE (U.O.N.).

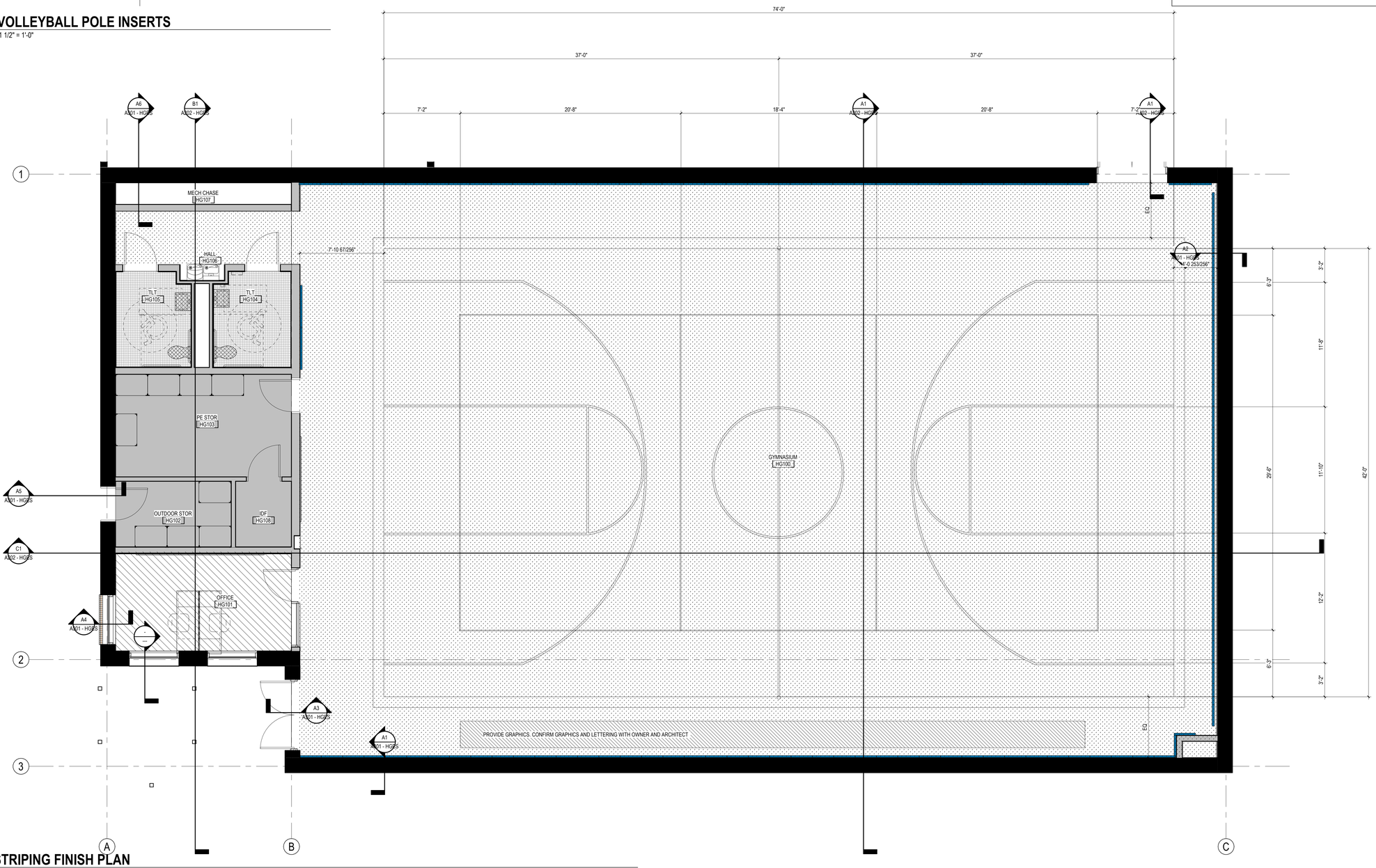
3. FIELD VERIFY EXACT LOCATIONS OF BACKBOARDS PRIOR TO PERFORMING ANY COURT MARKING/STRIPING, TYP.

4. STRIPING AND FLOOR GRAPHICS PAINT SHALL BE PROVIDED BY FLOORING INSTALLATION VENDOR FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS. COLORS TO BE CONFIRMED WITH OWNER/ARCHITECT BY 6" X 6" MATERIAL SAMPLES PRIOR TO INSTALLATION. COLORS SHALL BE SELECTED FROM VENDOR'S STANDARD AVAILABLE COLORS.

5. COURT STRIPING COLORS SHALL MATCH FLOOR COLOR LEGEND PROVIDED. EXTERIOR STRIPING COLORS SHOULD BE PAINTED TO MATCH FLOOR COLOR LEGEND PROVIDED.

MATERIAL LEGEND

- RAF-1 RESILIENT ATHLETIC FLOORING
- CPT-1
- PT-3
- SC-1



A1 GYM STRIPING FINISH PLAN

A901-HGES 1/4" = 1'-0"

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KEY PLAN

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 11/13/24 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

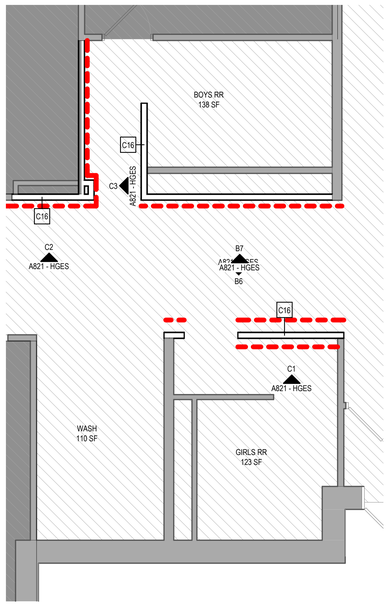
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ENLARGED GYM FINISH PLAN

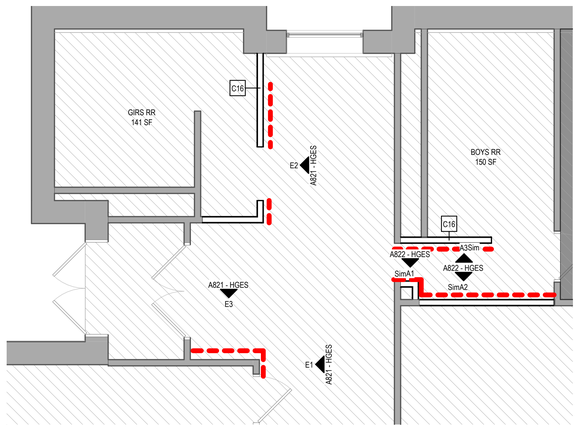
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A901-HGES

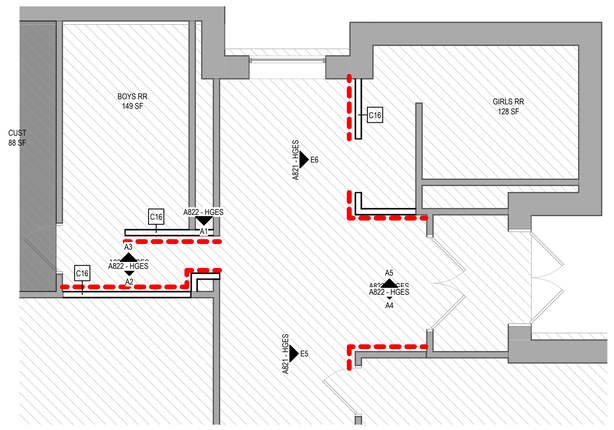
ORIGINAL SHEET - ARCH E1



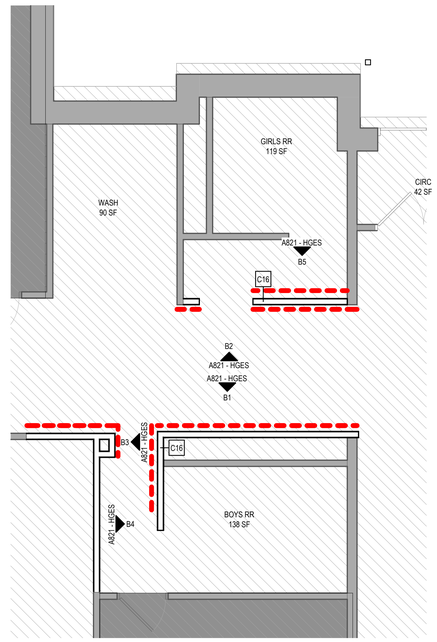
B1 A902 — **ENLARGED FLOOR PLAN**
1/4" = 1'-0"
HGES



A1 A902 — **ENLARGED FLOOR PLAN**
1/4" = 1'-0"
HGES



A2 A902 — **ENLARGED FLOOR PLAN**
1/4" = 1'-0"
HGES



A3 A902 — **ENLARGED FLOOR PLAN**
1/4" = 1'-0"
HGES

LEGEND

- PAINT WALLS IN THIS AREA
- DAMAGED VINYL PANELS
- EXISTING TO REMAIN / NOT IN SCOPE
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.
2. RE-COVER DAMAGED PANELS WITH NEW VINYL
3. REPLACE PARTITIONS WHERE NOTED (BY RESTROOMS)

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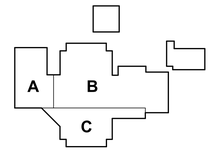


KEY PLAN

Revision — By — Appd — YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT — By — Appd — 2025.09.24
Issued — YYYY.MM.DD

File Name: N/A — Author Dwn. — Designer Dsgn. — Checker Chkd. — 11/13/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

Client/Project Logo

2024 BOND — FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

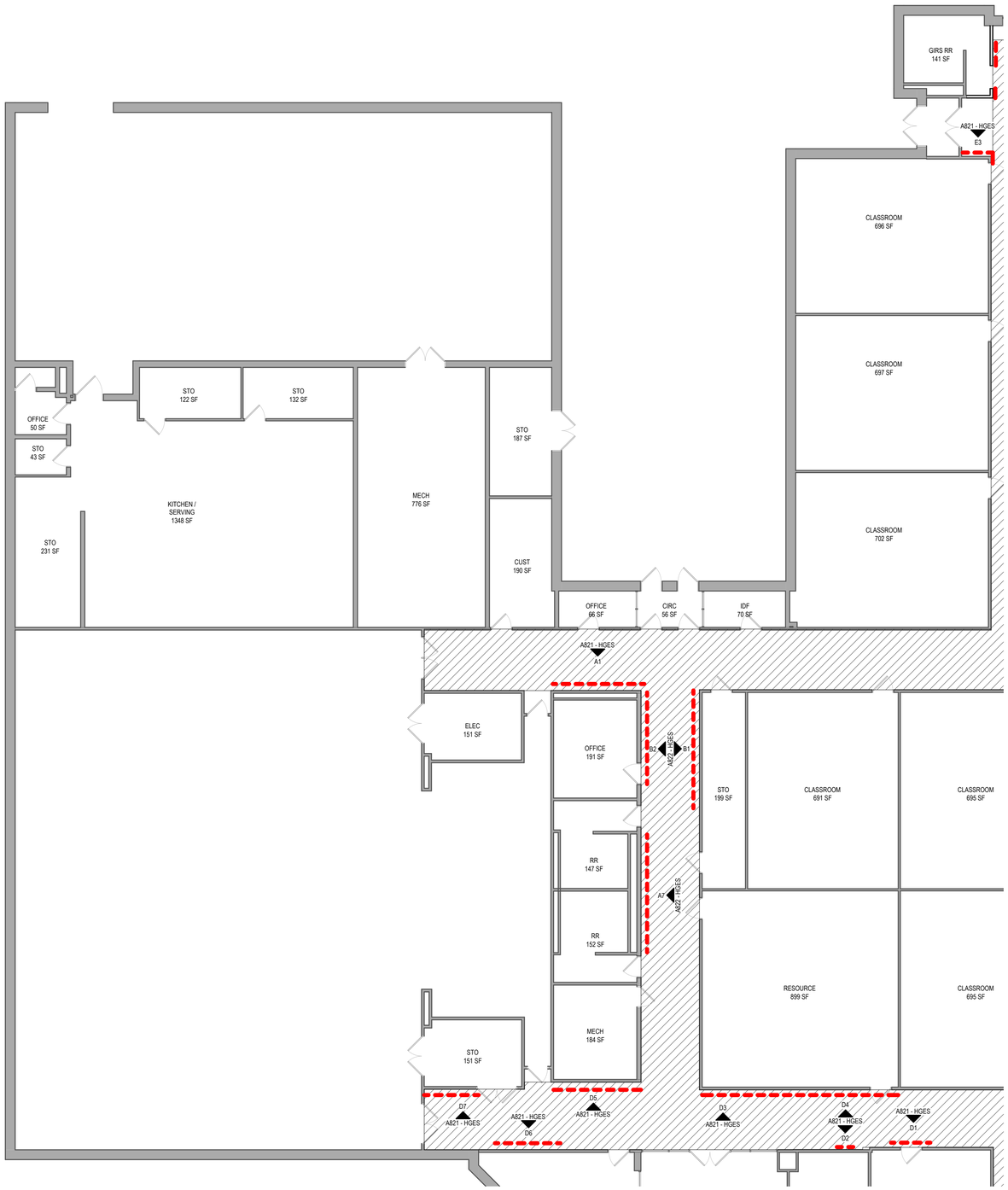
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ENLARGED RESTROOM PLANS - NEW PARTITIONS

Project No. 214001246 — Scale As indicated
Revision — Drawing No.

A902 - HGES

<Pick location in Project Information>
12/20/2023 5:36:39 AM
ORIGINAL SHEET - ARCH E1



A1 / A903 — **FLOOR PLAN - AREA A**

1/8" = 1'-0"

HGES

LEGEND

- PAINT WALLS IN THIS AREA
- DAMAGED VINYL PANELS
- EXISTING TO REMAIN / NOT IN SCOPE
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

GENERAL NOTES

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2. RE-COVER DAMAGED PANELS WITH NEW VINYL
3. REPLACE PARTITIONS WHERE NOTED (BY RESTROOMS)

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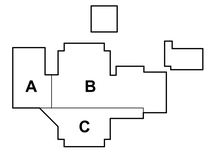

KEY PLAN

Revision — By — Appd — YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT — By — Appd — 2025.09.24
Issued — YYYY.MM.DD

File Name: N/A — Author Dwn. — Designer Dsgn. — Checker Chkd. — 11/13/24 YYYY.MM.DD

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Client/Project Logo

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FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title
FINISH PLAN - VINYL AND PAINT - AREA A

Project No. 214001246
Scale As indicated
Revision
Drawing No.

A903 - HGES

<Pick location in Project Information>
12/5/2025 3:37:06 AM

ORIGINAL SHEET - ARCH E1

LEGEND

- PAINT WALLS IN THIS AREA
- DAMAGED VINYL PANELS
- EXISTING TO REMAIN / NOT IN SCOPE
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W. x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.
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3. REPLACE PARTITIONS WHERE NOTED (BY RESTROOMS)

A1
A904
HGES

FLOOR PLAN - AREA B

1/8" = 1'-0"

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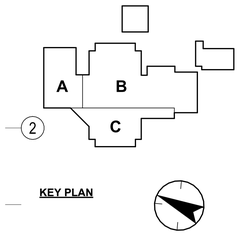

KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/13/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE HUNTER
28296
STATE OF TEXAS

Client/Project Logo

2023 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

FLOOR PLAN - VINYL AND PAINT - AREA B

Project No.	Scale
214001246	As indicated

Revision | Drawing No.

A904 - HGES

ORIGINAL SHEET - ARCH E1

<File location in Project Information>
1/25/2025 3:37:01 AM

A1
A905

FLOOR PLAN - AREA C

1/8" = 1'-0"

HGES

LEGEND

- PAINT WALLS IN THIS AREA
- DAMAGED VINYL PANELS
- EXISTING TO REMAIN / NOT IN SCOPE
- EXISTING WALLS TO REMAIN
- NEW PARTITIONS

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.
2. RE-COVER DAMAGED PANELS WITH NEW VINYL
3. REPLACE PARTITIONS WHERE NOTED (BY RESTROOMS)

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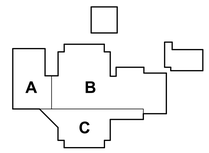


KEY PLAN

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/13/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE DUNN
28298
STATE OF TEXAS

Client/Project Logo

2023 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
FLOOR PLAN - VINYL AND PAINT - AREA C

Project No.	Scale
214001246	As indicated

Revision | Drawing No.

A905 - HGES

<Pick location in Project Information>
7/25/2025 3:37:02 AM

ORIGINAL SHEET - ARCH E1

RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭	ITEM TO BE REMOVED

GENERAL NOTES:

1. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CHILLERS, AIR HANDLING UNITS, FANS, CONDENSING UNITS, BMCS CONTROL PANELS, TEMPERATURE SENSORS, AND CONTROL VALVES.
2. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
3. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

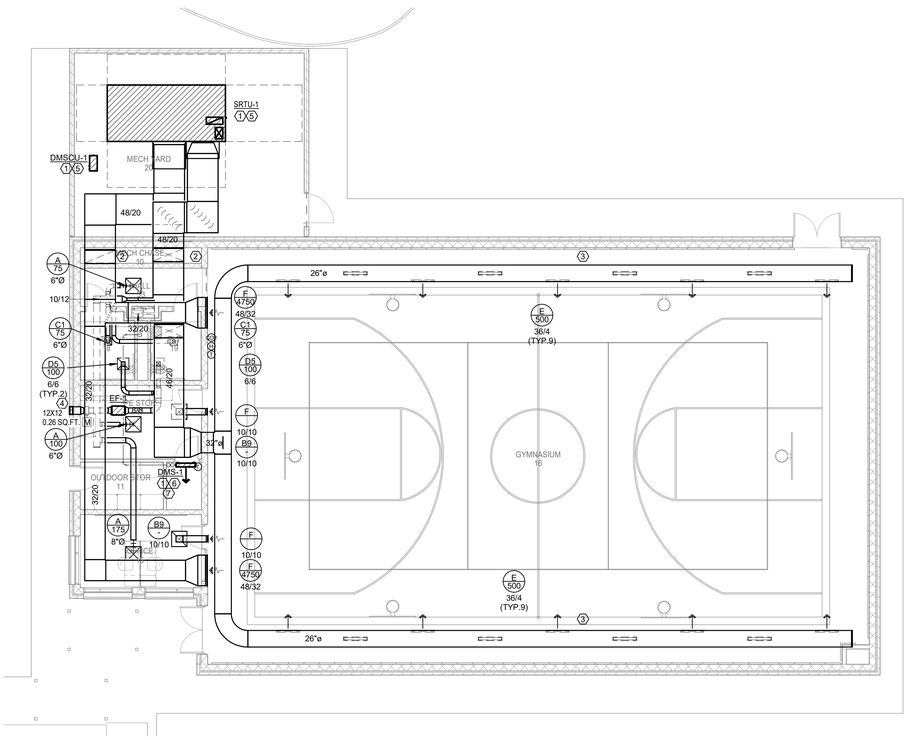
MECHANICAL KEYED NOTES:

1. VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. ROUTE DUCTWORK WITHIN CHASE AND UP TO PLENUM SPACE AS INDICATED.
3. SPIRAL INSULATED DOUBLE WALL DUCTWORK PAINTED BY ARCHITECT. DUCTWORK SHALL BE TIGHTS TO STRUCTURE.
4. PROVIDE RUSKIN MODEL HZ700 WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA INDICATED. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT.
5. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
6. ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO LAVATORY WYE TAILPIECE LOCATED IN TLT 18. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
7. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPE ELEVATION INSIDE THE BUILDING SHALL NOT BE LESS THAN 7'3" AFF.
8. EXISTING SUPPLY AND RETURN AIR GRILLES TO REMAIN.

N

2 MECHANICAL PLAN - LEVEL 1 - EXTENDED DAY LEARNING

Scale: 1/8" = 1'-0"



N

1 MECHANICAL PLAN - LEVEL 1 - NEW GYM

Scale: 1/8" = 1'-0"

Stantec

OFFICE LEGAL ENTITY
OFFICE ADDRESS LINE 1
OFFICE ADDRESS LINE 2
OFFICE CITY, XX XXX XXX
Tel: (000) 000.0000 • www.stantec.com

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Consultant

Salas O'Brien
salasobrien.com 281-664-1900
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064

Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

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	ER	ER	VP	11/27/24

Permit/Seal

Client/Project Logo

BOND 2025
FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

MECHANICAL FLOOR PLANS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

M201-HGES

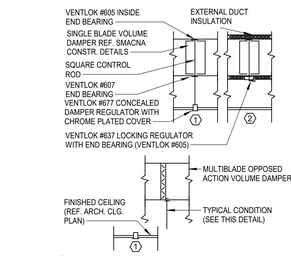
ORIGINAL SHEET - ARCH E1

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(A)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
(S)	SMOKE DAMPER (VERTICAL)
(S)	SMOKE DAMPER (HORIZONTAL)
FS	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FS	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
M	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
(T)	THERMOSTAT AND TEMPERATURE SENSOR
(H)	HUMIDISTAT
SDI	SMOKE DETECTOR
HEAT	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
–CWS&R–	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES. ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CWS–	CONDENSER WATER SUPPLY
–CWR–	CONDENSER WATER RETURN
–CHWS&R–	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES. ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CHWS–	CHILLED WATER SUPPLY
–CHWR–	CHILLED WATER RETURN
–HWS&R–	HOT WATER FOR HYDRONIC HEATING SUPPLY & RETURN (TOTAL OF TWO PIPES. ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–HWS–	HOT WATER FOR HYDRONIC HEATING SUPPLY
–HWR–	HOT WATER FOR HYDRONIC HEATING RETURN
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILIARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES. ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH OPERATOR
	PLUG VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	THERMOMETER WELL
	PETE'S PLUG
	PRESSURE GAUGE
	TEMPERATURE SENSOR IN PIPE
	VENTURI FLOW METER
	FLOW SWITCH
FM	FLOW MEASURING STATION
	EXPANSION JOINT
	FLEXIBLE CONNECTION
G.C.	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE

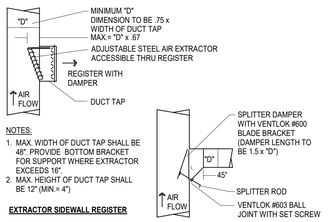
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK CONSTRUCTION DETAILS



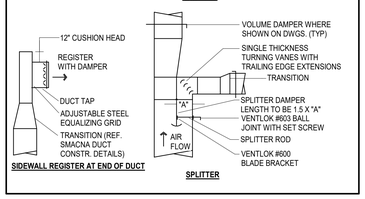
1 **DAMPER ABOVE INACCESSIBLE CEILING**

2 **DAMPER ABOVE LIFT-OUT CEILING**



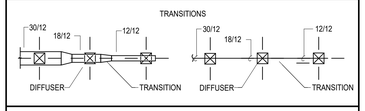
NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

EXTRACTOR SIDEWALL REGISTER **DUCT TAP**



SIDEWALL REGISTER AT END OF DUCT **SPLITTER**

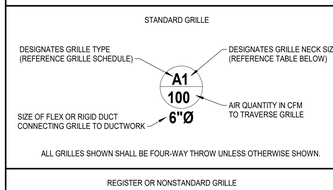
DUCTWORK SYMBOLS LEGEND



TWO LINE DUCTWORK LEGEND	TWO LINE DUCTWORK SYMBOLS	ONE LINE DUCTWORK SYMBOLS
RECTANGULAR DUCTWORK 30/16	FLEXIBLE DUCT CONNECTION	
ROUND DUCTWORK 30"ø	INSTRUMENT TEST HOLE	
FLAT OVAL DUCTWORK 30x16	STATIC PRESSURE SENSOR	
	MANUAL BALANCING DAMPER	
	MOTORIZED DAMPER	
	DUCT MOUNTED SMOKE DETECTOR	

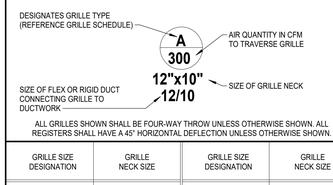
GRILLE SIZING SCHEDULE

STANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

REGISTER OR NONSTANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	SUPPLY AIR CFM	WATTS	CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	REMARKS
DMS-1	370	40.0	208	1	60	75.0	62.5	17,105	11,628	-/15.0	(1,2,3,4,5,6)

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. DUCTLESS WALL MOUNTED UNIT.
2. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
4. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
5. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
6. PROVIDE ASPEN MINI AQUA PUMP TO BE INSTALLED INSIDE UNIT.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC. V	PH	F	RELATED UNIT MARK	REMARKS
DMSCU-1	17,100	95	-/15.0	208	1	60	DMS-1	(1,2,3)

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITHLOW AMBIENT CONTROL DOWN TO 20°F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

SPECIALIZED PACKAGED ROOFTOP UNIT - ELECTRIC HEAT

MARK	FAN SUPPLY AIR CFM	FAN OUTSIDE AIR CFM	FAN EXT.STATIC PRESSURE (IN. W.C.)	FAN HORSE POWER	FAN CURRENT CHARAC. V	P	F	COOLING AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING AMBIENT TEMP	COOLING MIN. TOTAL CAPACITY (BTUH)	COOLING MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ IEER	ELECTRIC HEATING ENTERING AIR TEMP.(°F)	ELECTRIC HEATING MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	REMARKS
SRTU-1	9,500	2,000	1.15	10.0	480	3	60	79.9	66.6	98.0	335,100	251,200	10.0/13.2	61.8	245,664	72	SCR	(1,2,3,4,5,6,7,8,9,10)

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE SRTU FOR GROUND MOUNT WITH SIDE DISCHARGE AND DISCONNECT SWITCH.
2. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT WITH LOW AMBIENT CONTROL. ELECTRICIAN TO WIRE TO SEPARATE CIRCUIT.
3. PROVIDE FACTORY MOUNTED DDC CONTROLLER.
4. PROVIDE DIGITAL COMPRESSOR AND PREMIUM EFFICIENT MOTORS.
5. PROVIDE METAL MESH OUTSIDE AIR PRE FILTER WITH 2" PLEATED AND 4" FINAL FILTERS.
6. PROVIDE FAN CYCLING AND ADJUSTABLE COMPRESSOR LOCKOUT FOR LOW AMBIENT OPERATION.
7. PROVIDE MODULATING HOT GAS REHEAT.
8. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
9. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
10. SRTU SHALL PROVIDE A MINIMUM OF 850 CFM OF OUTSIDE AIR TO SPACE.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	P	F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	RESTROOMS	200	0.55	1800	0.5	120	1	60	-	SRTU-1	INLINE	DIRECT	COOK	SQN	(1,2,3)

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH MOTORIZED DAMPER.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" FACE.
B	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24".
C	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
D	EXHAUST AIR	DIFFUSER	-	STEEL	WHITE	TITUS	50F	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE. PERFERATED FACE.
E	GRILLE	SUPPLY AIR	-	STEEL	WHITE	TITUS	S300F	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
F	GRILLE	SUPPLY AIR	-	STEEL	WHITE	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

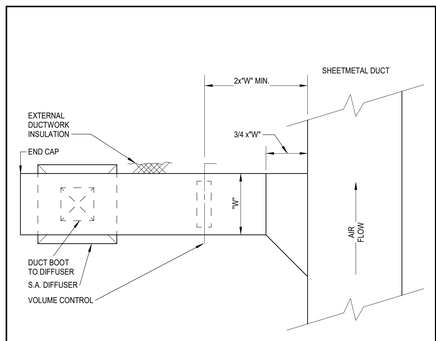
GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

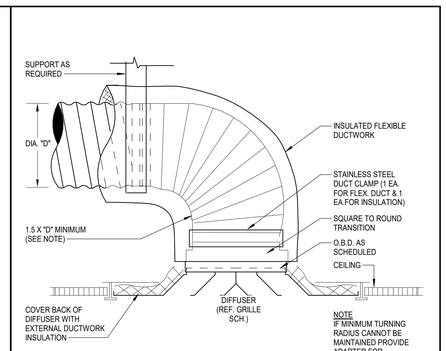
DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

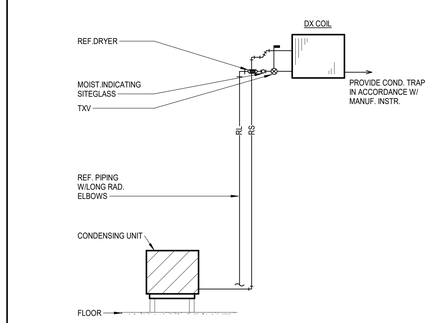
NOTES:
N/A - NOT APPLICABLE



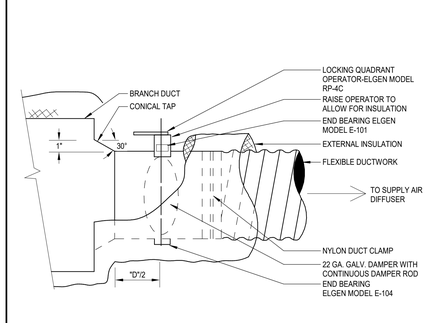
4 RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER
SCALE: NONE



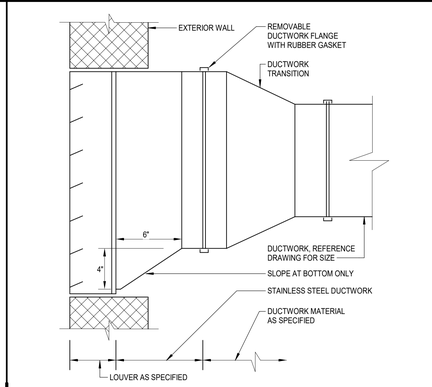
2 FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
SCALE: NONE



5 REFRIGERANT PIPING DIAGRAM
SCALE: NONE



3 FLEXIBLE DUCT TAP - CONICAL
SCALE: NONE



1 DUCTWORK AT LOUVER
SCALE: NONE

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Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	ER Dwn.	ER Dsgn.	VP Chkd. 11/27/24 YYYY.MM.DD

Permit/Seal

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
09-24-2025

Client/Project Logo

BOND 2022 FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
MECHANICAL SCHEDULE

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

M301-HGES

11/25/2025 10:49:48 AM
ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES, ASSOCIATED CONTROLS AND EXIT SIGNAGE. IN THIS AREA. RETAIN ALL NORMAL AND EMERGENCY LIGHTING CIRCUITS INTACT FOR RE-USE TO POWER NEW LIGHT FIXTURES. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

ELECTRICAL GENERAL NOTES

1. EXCEPT AS OTHERWISE NOTED, ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

2. DISCONNECT AND REMOVE ALL ELECTRICAL POWER DEVICES SURFACE MOUNTED ON WALLS AND FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, REMOVE CIRCUITS BACK TO SOURCE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF WALL DEMOLITION.

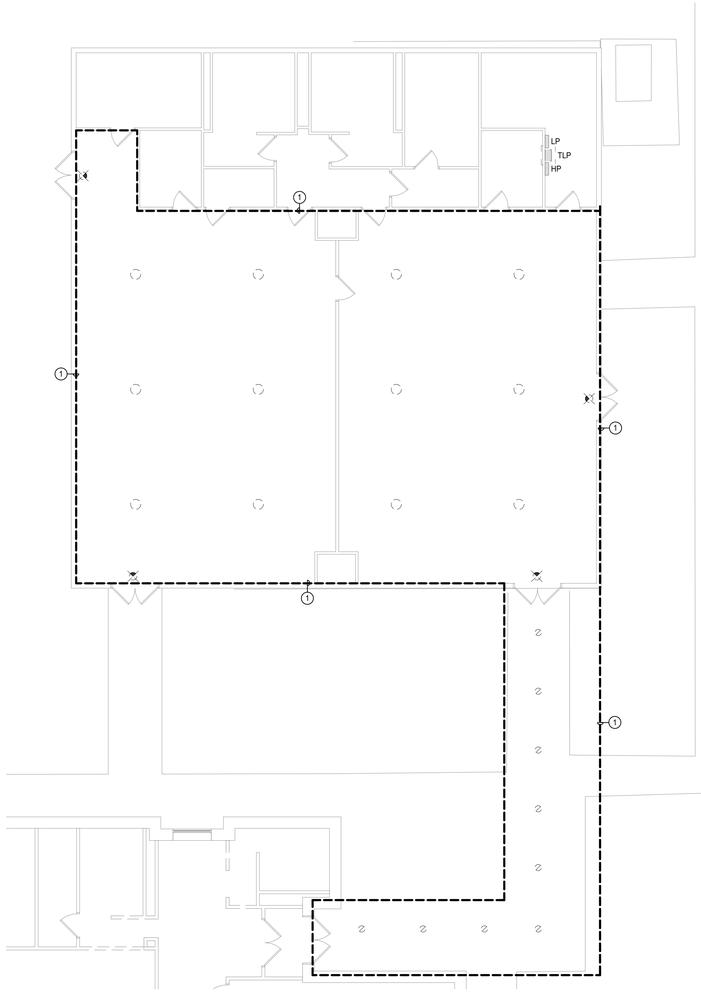
3. EXCEPT AS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL CONDUIT, WIRE AND ASSOCIATED DISCONNECT/CONTROLLER OF HVAC AND PLUMBING EQUIPMENT BEING REMOVED.

LINETYPE LEGEND

————	EXISTING TO REMAIN
— — — —	DISCONNECT AND REMOVE
————	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.



N

1 **ELECTRICAL DEMOLITION PLAN - LEVEL 1 - EXTENDED DAY LEARNING**
Scale: 1/8" = 1'-0"

EXISTING PLAYGROUND TO BE DEMOLISHED.

N

2 **ELECTRICAL DEMOLITION PLAN - LEVEL 1 - NEW GYM**
Scale: 1/8" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KJ	KJ	JZ	11/27/24

Permit/Seal

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

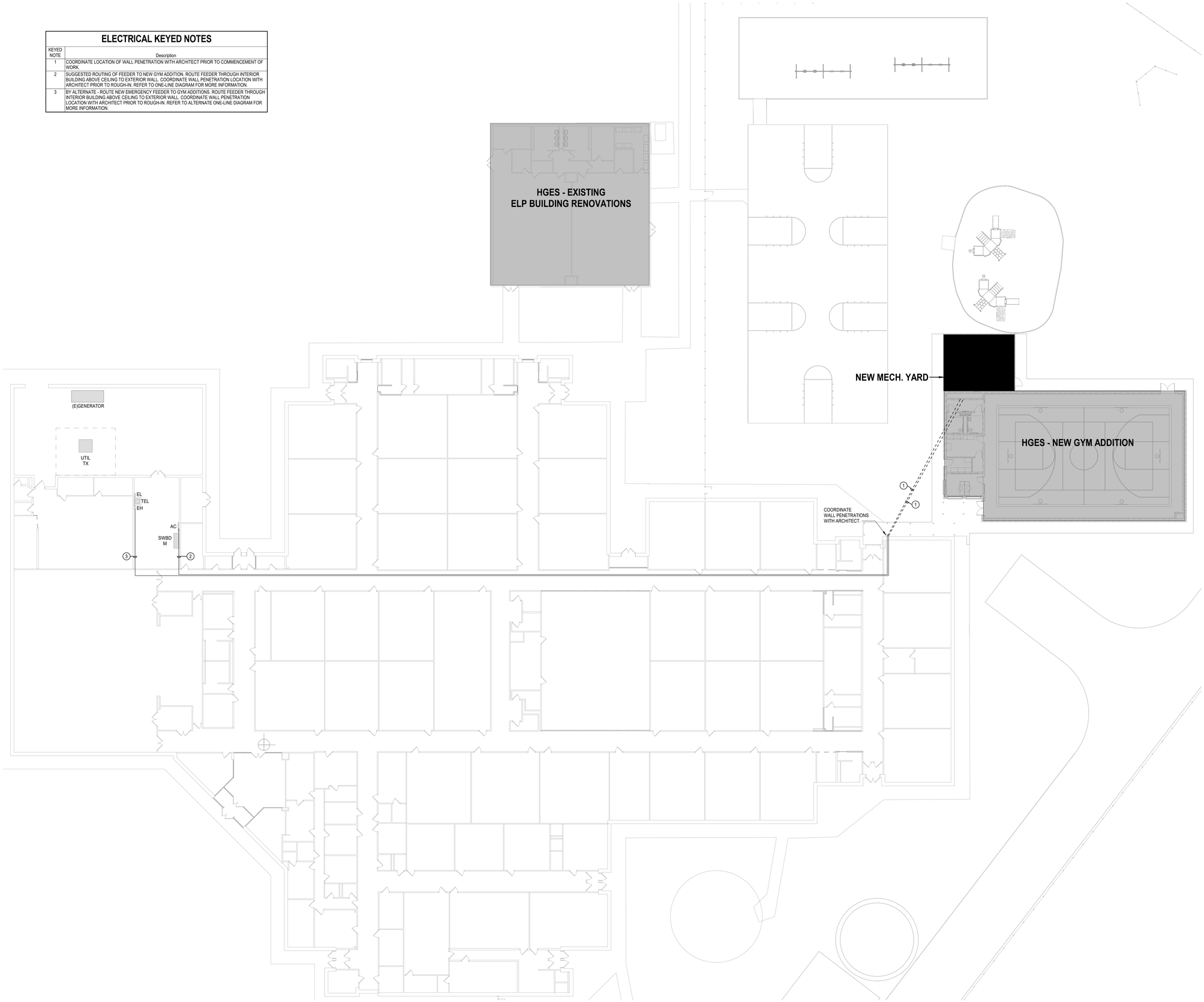
Title
ELECTRICAL DEMOLITION FLOOR PLANS

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.
	E001-HGES

ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	COORDINATE LOCATION OF WALL PENETRATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
2	SUGGESTED ROUTING OF FEEDER TO NEW GYM ADDITION. ROUTE FEEDER THROUGH INTERIOR BUILDING ABOVE CEILING TO EXTERIOR WALL. COORDINATE WALL PENETRATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION.
3	BY ALTERNATE - ROUTE NEW EMERGENCY FEEDER TO GYM ADDITIONS. ROUTE FEEDER THROUGH INTERIOR BUILDING ABOVE CEILING TO EXTERIOR WALL. COORDINATE WALL PENETRATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ALTERNATE ONE-LINE DIAGRAM FOR MORE INFORMATION.



N

1 **ELECTRICAL COMPOSITE PLAN**
Scale: 1/16" = 1'-0"

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Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KJ	KJ	JZ	11/27/24

Permit/Seal

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2023 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ELECTRICAL COMPOSITE PLAN

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.

E100-HGES

ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	MOUNT AT +54" AFF. FOR BMCS CONNECTION.
2	MOUNT AT +54" AFF. FOR F/A CONNECTION.
3	POWER FOR MOTORIZED FIRE/SMOKE DAMPERS. COORDINATE WITH DIVISION 23 FOR FINAL QUANTITY AND LOCATION, PROVIDE FINAL CONNECTION TO EACH FIRE/SMOKE DAMPER WITH 2#12, 1#12G. 3/4"C.
4	ROUTE 3/4" C. TO ASSOCIATED OUTDOOR UNIT. ROUTE PARALLEL WITH REFRIGERATION LINES.

ELECTRICAL GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURE AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.

2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.

3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS/TRANSFER DEVICES. REFER TO 26 09 24 LIGHTING CONTROLS.

4. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.

5. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.

7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.

8. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMMUNICATIONS PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.

LINETYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

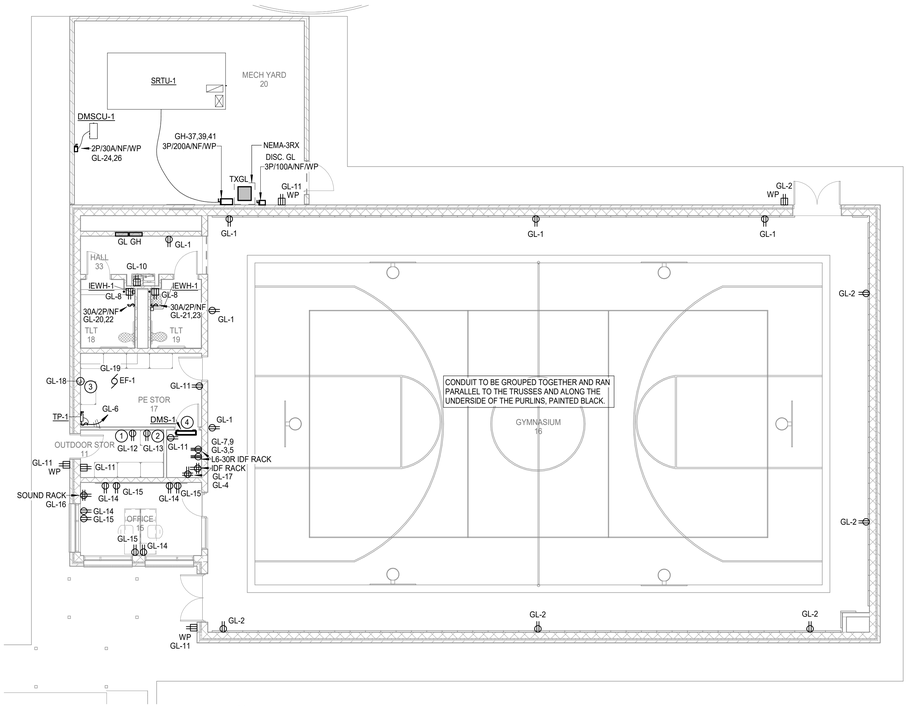
FIRE ALARM SYSTEM SHALL COMPLY WITH ALL CITY OF HOUSTON IBC AMENDMENTS. SMOKE DETECTORS SHALL BE PROVIDED IN ALL APPLICABLE ROOMS LISTED IN SECTION 907.2.3.1 OF THE 2021 IBC CITY OF HOUSTON AMENDMENTS.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

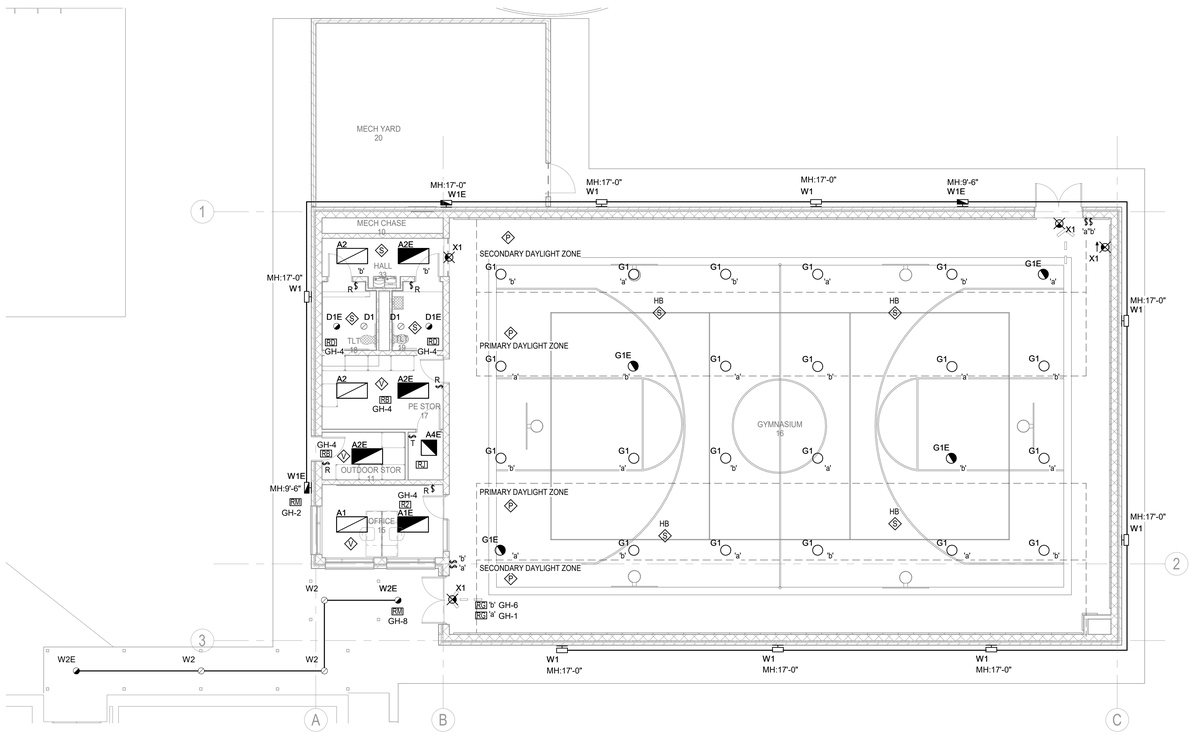
EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

IECC-2021, C405.11 AUTOMATIC RECEPTACLE CONTROL. AT LEAST 50 PERCENT OF ALL 125V, 15-AMP AND 20-AMP RECEPTACLES INSTALLED IN ENCLOSED OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, CLASSROOMS AND INDIVIDUAL WORKSTATIONS, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS AND MODULE OFFICE WORKSTATION SYSTEMS SHALL HAVE AUTOMATIC RECEPTACLE CONTROL, AN OCCUPANT SENSOR SHALL TURN OFF INDICATED RECEPTACLES WITHIN 20 MINUTES AFTER DETERMINING THAT THE AREA IS UNOCCUPIED.



N

1 **ELECTRICAL POWER PLAN - LEVEL 1 - NEW GYM**
Scale: 1/8" = 1'-0"



N

2 **ELECTRICAL LIGHTING PLAN - LEVEL 1 - NEW GYM**
Scale: 1/8" = 1'-0"

N

3 **ELECTRICAL LIGHTING PLAN - LEVEL 1 - EXTENDED DAY LEARNING**
Scale: 1/8" = 1'-0"

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Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ELECTRICAL FLOOR PLANS

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.

E201-HGES

ORIGINAL SHEET - ARCH E1

GENERATOR LOAD ANALYSIS
EXIST. PANEL GH

277/480, 3PH, 4W
40kVA/32kW - 60A

LOAD DESCRIPTION	LOAD KVA
EXISTING CALCULATED LOAD	1.3
CALCULATED EXISTING LOAD (125%)	1.7
NEW LOAD:	
RECEPTACLES (CONNECTED NEC 220.44)	11.4
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	0.7
HVAC - FANS, AHU'S (NEC 220)	--
LIGHTING	0.5
LIGHTING @ 125%	0.6
TOTAL KVA	13
TOTAL AMPS	15.6

TWO-HOUR FIRE RATED CABLE:

1. TWO-HOUR FIRE RATED POWER CABLE SHALL BE APPROVED BY THE LOCAL AHJ AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS IN COMPLIANCE WITH UL FIRE RESISTANCE DIRECTORY, ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT), AND SYSTEM 27.

2. TWO-HOUR FIRE RATED POWER CABLE SHALL BE INSTALLED AS APPROVED BY THE LOCAL AHJ IN STEEL EMT OR STEEL RIGID CONDUIT WITH STEEL SET SCREW OR THREADED FITTINGS. UL LISTED FLEXIBLE METALLIC STEEL CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 6-FEET. SUPPORT CONDUIT EVERY 5-FEET ON CONCRETE OR MASONRY WALLS OR A CONCRETE FLOOR-CEILING ASSEMBLY. THE FIRE RATING OF THE WALL OR FLOOR-CEILING ASSEMBLY MUST BE EQUAL TO OR GREATER THAN THE RATING OF THE ELECTRICAL CIRCUIT PROTECTIVE SYSTEM. PROVIDE J-BOX AT EACH END OF THE FIRE RATED CABLES IN THE FIRE RATED ROOM TO ALLOW SPLICE TO STANDARD BUILDING CABLE TO THE EQUIPMENT. PROVIDE SEALANT TO THE END OF THE RACEWAY TO PREVENT GASES FROM MIGRATING FROM THE FIRE RATED CABLE DOWN INTO THE EQUIPMENT.

INSULATION FOR TWO-HOUR FIRE RATED POWER CABLE:

1. INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 2196 FIRE TEST FOR CIRCUIT INTEGRITY OF FIRE-RESISTIVE POWER, INSTRUMENTATION, CONTROL AND DATA CABLES, AND UL 44, THERMOSET INSULATED WIRES AND CABLES.

a. INSULATION FOR CONDUCTORS SHALL BE UL TYPE RHW-2 OR RW90, 90 DEGREES C FOR WET LOCATIONS AND 90 DEGREES C FOR DRY LOCATIONS.
b. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT) – SYSTEM 27 OF THE UL FIRE RESISTANCE DIRECTORY.

FEEDER SCHEDULE-GENERATOR

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
100A	1	(4) #3	#8	1-1/2"C

TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
30KVA	3#6, 1-1/4"C, 1#10G	3P-50A	4#2, 1-1/2"C, 1#8G	3P-100A	#8

LIGHTING CONTROLS SCHEDULE - ALTERNATE

Type	Sensor Operation	Description
ER	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM
ES	-	UL1008 GENERATOR TRANSFER DEVICE, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

LIGHTING FIXTURE SCHEDULE-ALTERNATE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	METALUX	24CGT5540C	T-GRID/GYP	5500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2	METALUX	24CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A4	METALUX	22CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X2 FLAT LENSED TROFFER, ACRYLIC DIFFUSER, 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE HARD CEILING MOUNTING ACCESSORIES.
D1	HALO	HC640D010-HM63040840-61MDH	RECESSED	4000L LED	4000 K	80	277 V	45 W	LED 6" RECESSED CAN LIGHT,0-10V DIMMING DRIVER. DLC CERTIFIED.
G1	METALUX	SSLED-LD5-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER .
W1	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
W2	FAIL-SAFE	TRO11-LD4-25W-40-OPL-XX-UNV-EDC1	SURFACE	3265L LED	4000 K	80	277 V	30 W	LED 11-INCH ARCHITECTURAL ROUND FIXTURE, SURFACE MOUNTED, WET LOCATION LISTED, ALUMINUM HOUSING, POLYCARBONATE LENS. COORDINATE FINISH WITH ARCHITECT. DLC CERTIFIED.
XG	SURE-LITES	LPX6-W-WG10	CEILING	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING. PROVIDE WIRE GUARD.

Branch Panel: GHE — NEW PANEL

Location: OUTDOOR STOR 11 — **Volts:** 277/480 Wye — **A.I.C. Rating:** 18,000
Supply From: — **Phases:** 3 — **Enclosure:** Type 1
Mounting: Surface — **Wires:** 4 — **Mains:** 100A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Lighting	#12	20 1	0.1 / 0.0			1	-- --	SPACE	2	
	3	Lighting	#12	20 1		0.1 / 0.0		1	-- --	SPACE	4	
	5	Room 17, 11, 15, 33, 16, 19, 18	#12	20 1			1.2 / 0.0	1	-- --	SPACE	6	
	7	SPARE	--	20 1	0.0 / 0.0			1	-- --	SPACE	8	
	9	SPARE	--	20 1		0.0 / 0.0		1	-- --	SPACE	10	
	11	SPARE	--	20 1			0.0 / 0.0	1	-- --	SPACE	12	
	13				5.1 / 0.0						14	
	15	TGLE	ONE LINE	50 3		3.3 / 0.0		3	30 --	SPDL	16	
	17						3.0 / 0.0				18	
			Total Load:		5.1 kVA	3.3 kVA	4.2 kVA					
			Total Amps:		19 A	12 A	15 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1.3 kVA	125.00%	1.6 kVA		
Motor	0.3 kVA	100.00%	0.3 kVA	Total Conn. Load:	12.6 kVA
Receptacles	11.1 kVA	95.21%	10.5 kVA	Total Est. Demand:	12.4 kVA
				Total Conn. Current:	15 A
				Total Est. Demand Current:	15 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: GLE — NEW PANEL

Location: OUTDOOR STOR 11 — **Volts:** 120/208 Wye — **A.I.C. Rating:** 10,000
Supply From: TGLE — **Phases:** 3 — **Enclosure:** Type 1
Mounting: Surface — **Wires:** 4 — **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	IDF Rack L6-30R PE STOR 17	#10	30 2	1.8 / 1.2			1	20 #12	Receptacles PE STOR 17	2	
	3					1.8 / 1.0		1	20 #12	Sound Rack OFFICE 15	4	
	5	IDF Rack PE STOR 17	#12	20 1			1.2 / 1.8	2	30 #10	IDF Rack L6-30R PE STOR 17	6	
LO	7	Motorized Dampers PE STOR 17	#12	20 1	0.3 / 1.8						8	
LO	9	F/A OUTDOOR STOR 11	#12	20 1		0.5 / 0.0		1	-- --	SPACE	10	
	11	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	12	
	13	SPARE	--	20 1	0.0 / 0.0						14	
	15	SPARE	--	20 1		0.0 / 0.0		3	30 --	SPDL	16	
	17	SPARE	--	20 1			0.0 / 0.0				18	
			Total Load:		5.1 kVA	3.3 kVA	3.0 kVA					
			Total Amps:		42 A	28 A	25 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	0.3 kVA	100.00%	0.3 kVA		
Receptacles	11.1 kVA	95.21%	10.5 kVA	Total Conn. Load:	11.3 kVA
				Total Est. Demand:	10.8 kVA
				Total Conn. Current:	31 A
				Total Est. Demand Current:	30 A

Notes:

Abbreviations:
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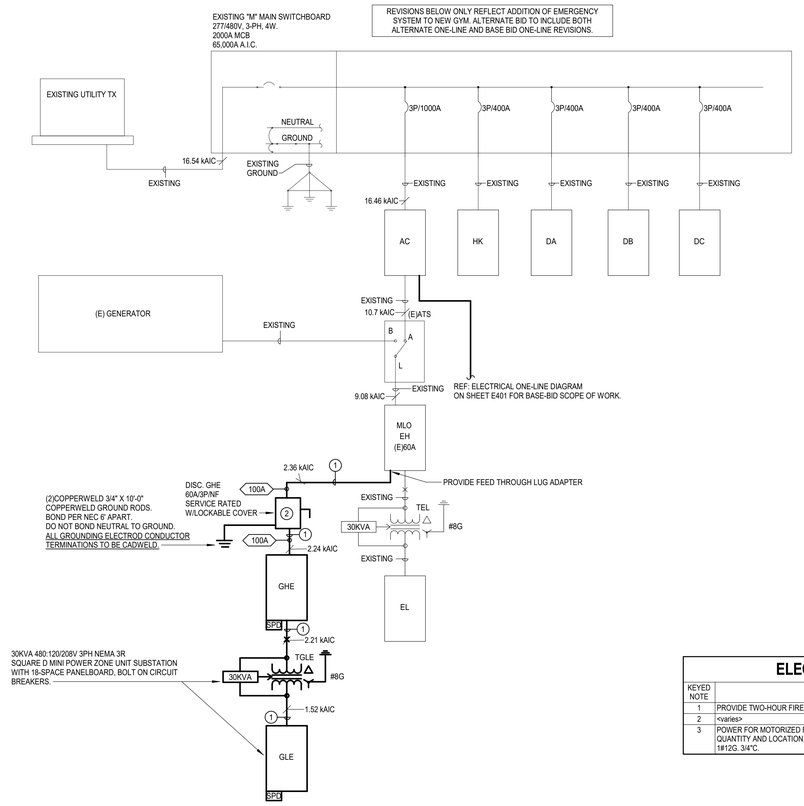
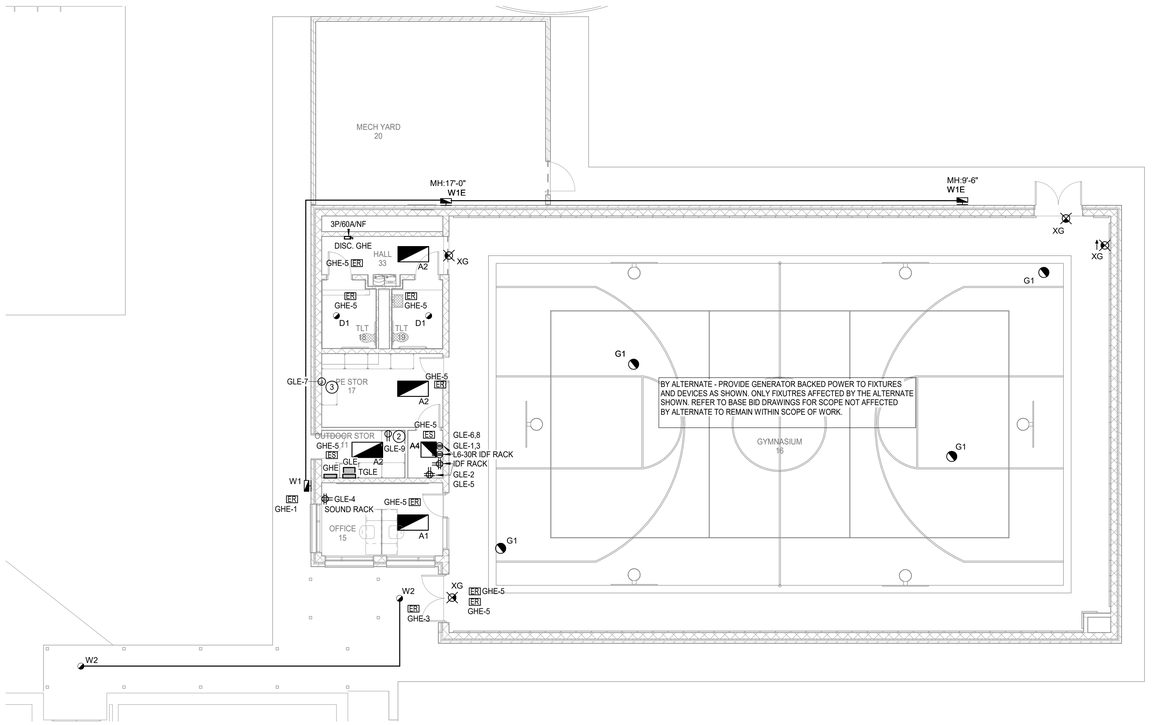


2 ELECTRICAL ONE-LINE DIAGRAM - ALTERNATE
Scale: N.T.S.



N

1 ELECTRICAL POWER PLAN - LEVEL 1 - NEW GYM -ALTERNATE
Scale: 1/8" = 1'-0"

LINETYPE LEGEND

———	EXISTING TO REMAIN
– – – –	DISCONNECT AND REMOVE
———	NEW WORK

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

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2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE, LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.

3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS/TRANSFER DEVICES. REFER TO 26 09 24 LIGHTING CONTROLS.

4. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND ICCC-2015 C405.

5. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

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ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	PROVIDE TWO-HOUR FIRE RATED CABLE.
2	<varies>
3	POWER FOR MOTORIZED FIRE/SMOKE DAMPERS. COORDINATE WITH DIVISION 23 FOR FINAL QUANTITY AND LOCATION. PROVIDE FINAL CONNECTION TO EACH FIRE/SMOKE DAMPER WITH 2#12, 1#12G, 3/4"C.

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Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ELECTRICAL FLOOR PLANS - ALTERNATE

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

E301-HGES

Branch Panel: AC

EXISTING PANEL

Location: MECH 115 **Volts:** 277/480 Wye **A.I.C. Rating:** 25,000
Supply From: SWBD M **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 1000A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1					44.3 / 44.3							2	
	3	CHILLER #1	--	225	3		44.3 / 44.3		3	225	--	CHILLER #2	4	
	5							44.3 / 44.3					6	
	7					24.9 / 1.4							8	
	9	XFMR XK	--	125	3		24.9 / 1.4		3	15	--	CONT. COMP.	10	
	11							24.9 / 1.4					12	
	13					5.8 / 5.8							14	
	15	CHP-1	--	40	3		5.8 / 5.8		3	40	--	CHP-2	16	
	17							5.8 / 5.8					18	
	19					3.0 / 3.0							20	
	21	CWP-1	--	40	3		3.0 / 3.0		3	40	--	CWP-2	22	
	23							3.0 / 3.0					24	
	25					7.4 / 2.2							26	
	27	COOLING TOWER	--	60	3		7.4 / 2.2		3	15	--	AHU-1	28	
	29							7.4 / 2.2					30	
	31					2.2 / 0.2							32	
	33	WATER HEATER	--	15	3		2.2 / 0.2		3	15	--	SF-1	34	
	35							2.2 / 0.2					36	
	37					46.9 / 3.3							38	
1	39	GH	ONE LINE	100	3		46.0 / 3.3		3	20	--	EOH-1	40	
	41							45.4 / 3.3					42	
			Total Load:			194.7 kVA	193.8 kVA	193.2 kVA						
			Total Amps:			703 A	700 A	698 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	104.2 kVA	100.00%	104.2 kVA		
Lighting	5.9 kVA	125.00%	7.4 kVA	**Total Conn. Load:**	581.7 kVA
Power	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand:**	579.3 kVA
Receptacles	17.7 kVA	78.28%	13.8 kVA	**Total Conn. Current:**	700 A
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand Current:**	697 A
Miscellaneous	0.0 kVA	0.00%	0.0 kVA		

Existing Loads	Existing Connected	Existing Demand...	Existing Demand
Existing Load	443.4 kVA	100.00%	443.4 kVA

Notes:
EXISTING PANEL - Total Calculated Existing load shown in calculations.

1 - NEW CIRCUIT

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
E - EXISTING LOAD

Branch Panel: GH

NEW PANEL

Location: HALL 33 **Volts:** 277/480 Wye **A.I.C. Rating:** 18,000
Supply From: AC **Phases:** 3 **Enclosure:** Type 1
Mounting: Recessed **Wires:** 4 **Mains:** 250A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1	GYMNASIUM 16	#12	20	1	2.4 / 0.3			1	20	#12	Exterior Lighting	2	C
	3	SPACE	--	--	1		0.0 / 0.6		1	20	#12	Lighting Room 8, 17, 11, 15	4	
	5	SPACE	--	--	1			0.0 / 2.4	1	20	#12	GYMNASIUM 16	6	
	7	SPACE	--	--	1	0.0 / 0.2			1	20	#12	Exterior Lighting	8	C
	9	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	10	
	11	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	12	
	13	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	14	
	15	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	16	
	17	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	18	
	19	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	20	
	21	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	22	
	23	SPARE	--	20	1			0.0 / 0.0	1	--	--	SPACE	24	
	25	SPARE	--	20	1	0.0 / 0.0			1	--	--	SPACE	26	
	27	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	30	
	31					10.8 / 0.0			1	20	--	SPARE	32	
	33	TXGL	ONE LINE	50	3		12.2 / 0.0		1	20	--	SPARE	34	
	35							9.8 / 0.0	1	20	--	SPARE	36	
	37					33.2 / 0.0							38	
	39	SRTU-1 MECH YARD	#2/0	150	3		33.2 / 0.0		3	30	--	SPDL	40	
	41							33.2 / 0.0					42	
			Total Load:			46.9 kVA	46.0 kVA	45.4 kVA						
			Total Amps:			170 A	166 A	164 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	104.2 kVA	100.00%	104.2 kVA		
Heating	9.8 kVA	100.00%	9.8 kVA	**Total Conn. Load:**	138.3 kVA
Lighting	5.9 kVA	125.00%	7.4 kVA	**Total Est. Demand:**	135.9 kVA
Motor	0.8 kVA	100.00%	0.8 kVA	**Total Conn. Current:**	166 A
Receptacles	17.7 kVA	78.28%	13.8 kVA	**Total Est. Demand Current:**	164 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
C - CONTROLLED VIA CONTACTOR

Branch Panel: GL

NEW PANEL

Location: HALL 33 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TXGL **Phases:** 3 **Enclosure:** Type 1
Mounting: Recessed **Wires:** 4 **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1	Receptacle GYMNASIUM 16	#12	20	1	1.1 / 1.1			1	20	#12	Receptacle, GFCI Receptacle, GYMNASIUM 16	2	
	3	IDF Rack L6-30R	#10	30	2		1.8 / 1.2		1	20	#12	IDF Rack	4	
	5							1.8 / 0.3	1	20	#12	Trap Primer PE STOR 17	6	
	7	IDF Rack L6-30R	#10	30	2	1.8 / 0.4			1	20	#12	GFCI Receptacle	8	
	9						1.8 / 0.8		1	20	#12	EDF TLT 11	10	
	11	GFCI Receptacle, Receptacle PE STOR 11,...	#12	20	1			1.1 / 0.5	1	20	#12	BMCS PE STOR 11	12	
LO	13	F/A PE STOR 11	#12	20	1	0.5 / 0.7			1	20	#12	Receptacle OFFICE 15, PE STOR 11	14	
	15	Receptacles OFFICE 15	#12	20	1		0.7 / 1.0		1	20	#12	Sound Rack PE STOR 11	16	
	17	IDF Rack PE STOR 17	#12	20	1			1.2 / 0.3	1	20	#12	Motorized Dampers PE STOR 17	18	LO
	19	EF-1 TLT 18	#12	20	1	0.5 / 2.5			2	30	#10	IEWH-1Heating TLT 18	20	
	21						2.5 / 2.5						22	
	23	IEWH-1 TLT 19	#10	30	2			2.5 / 2.3	2	30	#10	DMSCU-1 MECH YARD 20	24	
	25	SPACE	--	--	1	0.0 / 2.3							26	
	27	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	28	
	29	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	30	
	31	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	32	
	33	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0.0 / 0.0							38	
	39	SPARE	--	20	1		0.0 / 0.0		3	30	--	SPDL	40	
	41	SPARE	--	20	1			0.0 / 0.0					42	
			Total Load:			10.8 kVA	12.2 kVA	9.8 kVA						
			Total Amps:			91 A	103 A	82 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	4.6 kVA	100.00%	4.6 kVA		
Heating	9.8 kVA	100.00%	9.8 kVA	**Total Conn. Load:**	32.8 kVA
Motor	0.8 kVA	100.00%	0.8 kVA	**Total Est. Demand:**	29.0 kVA
Receptacles	17.7 kVA	78.28%	13.8 kVA	**Total Conn. Current:**	91 A
				Total Est. Demand Current:	80 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CAREY RAMSEYWITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

UNLESS NOTED OTHERWISE, RETAIN IN PLACE ALL EXISTING CIRCUITS AND FEEDER FROM SOURCE FOR ALL EXISTING PANELS LABELED TO BE REPLACED AND / OR RELOCATED. EXTEND / RE-ROUTE EXISTING BRANCH CIRCUITS AND FEEDER LEFT IN PLACE AFTER DEMOLITION FROM EXISTING PANELS TO BE RELOCATED AND / OR REPLACED.

CONTRACTOR TO FIELD VERIFY INTERRUPTING FAULT CURRENT CAPACITY OF EXISTING PANELS AND / OR SWITCHBOARDS AND TO PROVIDE NEW BREAKERS/FUSES TO MATCH EXISTING.

PANELBOARD CIRCUIT DIRECTORY:

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW CIRCUIT DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED AND LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE". SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(B) FOR DETAILS.

ELECTRICAL LOAD ANALYSIS

EXIST. M

277/480, 3PH, 4W
2000A

LOAD DESCRIPTION	LOAD KVA
CALCULATED EXISTING LOAD - EXIST. DWGS	1183
NEW LOAD:	
RECEPTACLES (CONNECTED NEC 220.44)	17.7
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	3.9
HVAC - FANS, AHU'S (NEC 220)	104.2
MOTOR	.8
HEATING	9.8
LIGHTING	5.9
LIGHTING @ 125%	7.4
TOTAL KVA	1319.1
TOTAL AMPS	1587.4

ELECTRICAL KEYED NOTES

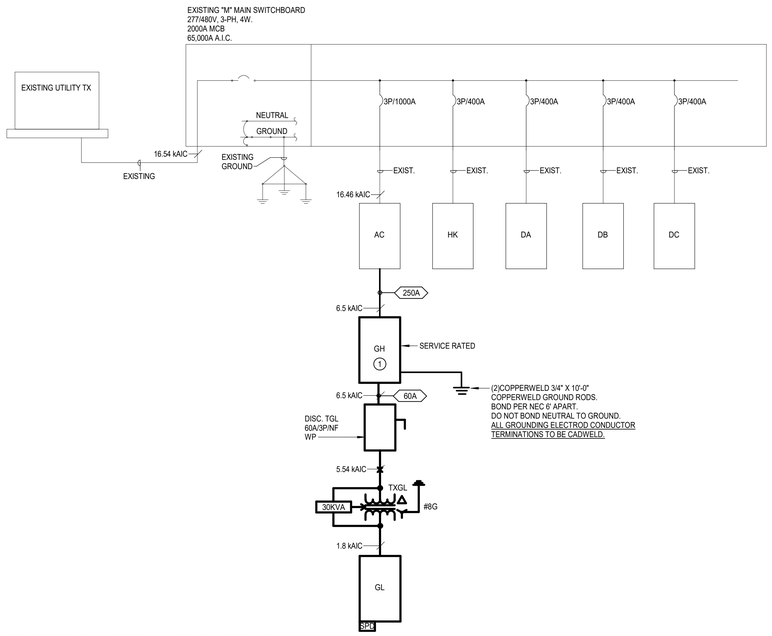
KEYED NOTE	Description
1	CLEARLY MARK COVER OF PANEL AS BUILDING SERVICE DISCONNECT.

TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
30KVA	3#6, 3/4"C, 1#10G	3P-50A	4#2, 1-1/4"C, 1#8G	3P-100A	#8

FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)SIZE	CONDUIT
250A	1	(4) #250KCMIL	#4	3"C
60A	1	(4) #6	#10	1"C



1 **ELECTRICAL ONE-LINE DIAGRAM**
Scale: N.T.S.

LINETYPE LEGEND

————	EXISTING TO REMAIN
— — — —	DISCONNECT AND REMOVE
————	NEW WORK

Stantec
OFFICE LEGAL ENTITY
OFFICE ADDRESS LINE 1
OFFICE ADDRESS LINE 2
OFFICE CITY, XX XXX XXX
Tel: (000) 000.0000 • www.stantec.com

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KJ	KJ	JZ	11/27/24

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ELECTRICAL ONE-LINE AND PANEL SCHEDULES

Project No.	Scale
214001246	N.T.S.

Revision | Drawing No.

E401-HGES

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	METALUX	24CGT5540C	T-GRID/GYP	5500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A1E	METALUX	24CGT5540C - EL14W	T-GRID/GYP	5500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
A2	METALUX	24CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2E	METALUX	24CGT4540C - EL14W	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
A4	METALUX	22CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X2 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE HARD CEILING MOUNTING ACCESSORIES.
A4E	METALUX	22CGT4540C-EL14W	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X2 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
B1	METALUX	14CGT4040C	T-GRID/GYP	4000L LED	4000K	80	277 V	50 W	1X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
C1	METALUX	4SNLED-LD5-LN-41SL-LN-UNV-L840-CD1-U	SUSPENDED/SURFACE	4100L LED	4000 K	80	277 V	20 W	1x4 SUSPENDED/SURFACE STRIP.
D1	HALO	HC640D010-HM63040840-81MDH	RECESSED	4000L LED	4000 K	80	277 V	45 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED.
D1E	HALO	HC640D010-HM63040840-81MDHIEM-REM14	RECESSED	4000L LED	4000 K	80	277 V	45 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
G1	METALUX	SSLED-LD5-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER .
G1E	METALUX	SSLED-LD5-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER . PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
W1	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
W1E	GARDCO	GWM-A09-840-T3M-UNV-EC	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
W2	FAIL-SAFE	TRO11-LD4-25W-40-OPL-XX-UNV-EDC1	SURFACE	3265L LED	4000 K	80	277 V	30 W	LED 11-INCH ARCHITECTURAL ROUND FIXTURE, SURFACE MOUNTED, WET LOCATION LISTED, ALUMINUM HOUSING, POLYCARBONATE LENS. COORDINATE FINISH WITH ARCHITECT. DLC CERTIFIED.
W2E	FAIL-SAFE	TRO11-LD4-25W-40-OPL-XX-UNV-EDC1-EL5W	SURFACE	3265L LED	4000 K	80	277 V	30 W	LED 11-INCH ARCHITECTURAL ROUND FIXTURE, SURFACE MOUNTED, WET LOCATION LISTED, ALUMINUM HOUSING, POLYCARBONATE LENS. COORDINATE FINISH WITH ARCHITECT. DLC CERTIFIED.
X1	SURE-LITES	LPX7-W-WG10	UNIVERSAL	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

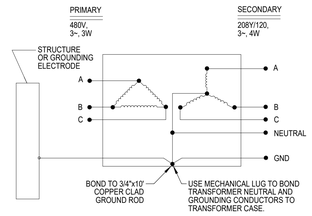
APPROVED LIGHTING MANUFACTURERS:
PHILLIPS, COOPER (METALUX), LITHONIA, OR LUTRON

NOTES:
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHT FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHT SCHEDULE AND THE SPECIFICATIONS, THE BETTER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
THE ABOVE LIGHTING MANUFACTURERS SUBSTITUTION LIST DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. IT SHALL BE THE RESPONSIBILITY OF THECONTRACTOR TO CAREFULLY SELECT SUBSTITUTIONS FOR THE SPECIFIED LIGHT FIXTURES FROM THE APPROVED LIGHTING MANUFACTURERS LISTED ABOVE. WHERE SPECIFIC OPTIONS / ACCESSORIES ARE SPECIFIED, THEY SHALL BE PROVIDED AS SPECIFIED WITH THE SUBSTITUION.
DUE TO THE WIDE RANGE OF FIXTURE QUALITIES OFFERED BY EACH MANUFACTURER, THE APPROVED LIGHTING MANUFACTURERS SUBSTITUTION LIST IS NOT INTENDED TO INDICATE THAT ANY OR ALL MANUFACTURERS LISTED WILL HAVE SUITABLE SUBSTITUTIONS FOR THE LIGHT FIXTURES OR POLES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

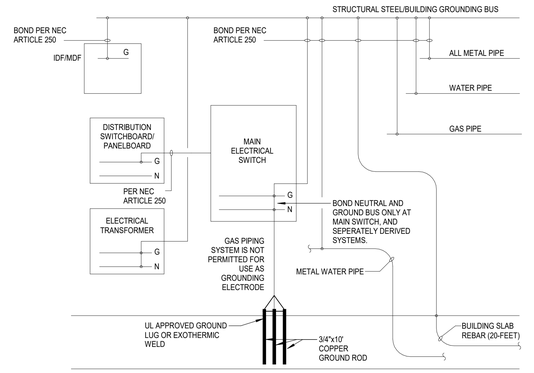
LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description
R2	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	2	3	ROOM CONTROLLER, 0-10V DIMMING.
RA	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, 0-10V DIMMING.
RB	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, NO DIMMING.
RD	OCCUPANCY - AUTO ON 100% / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, NO DIMMING.
RE	OCCUPANCY - AUTO ON 100% / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	CORRIDOR ROOM CONTROLLER, NO DIMMING. BMCS ON/OFF INTERFACE FOR OCCUPIED / UNOCCUPIED BUILDING OPERATION. PROVIDE OCCUPANCY BASED SENSORS WHERE SHOWN. LOCATE (1) KEYED SWITCH AT MAIN ENTRY DOOR ADJACENT TO SECURITY KEYPAD.
RG	OCCUPANCY - AUTO ON 50% / AUTO OFF 20 MINUTES TIMEOUT	2	0	1	GYM ROOM CONTROLLER, 0-10V DIMMING. BMCS ON/OFF INTERFACE FOR OCCUPIED / UNOCCUPIED BUILDING OPERATION. LOCATE 0-10 V DIMMING SWITCHES AT EACH ENTRY FOR DUAL-LEVEL CONTROL WITH ALTERNATE FIXTURES.
RJ	NONE	1	0	1	ON/OFF DIGITAL TIMER SWITCH. WATTSTOPPER TS-400. WHERE MULTIPLE SWITCHES ARE USED, THESE SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
RM	NONE	1	0	1	CONTACTOR CONTROLLED WITH BMCS ON/OFF INTERFACE FOR PHOTOSENSOR / SCHEDULE. EXTERIOR LIGHTING SHALL BE TURNED OFF FROM 12:00AM TO 6:00AM OR FROM 1 HOUR AFTER CLOSING TO 1 HOUR BEFORE OPENING. MANUAL OVERRIDE LOCATED IN MDF ROOM.
ER	-	-	-	-	UL924 LOAD CONTROL RELAY. PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM
ES	-	-	-	-	UL1008 GENERATOR TRANSFER DEVICE, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

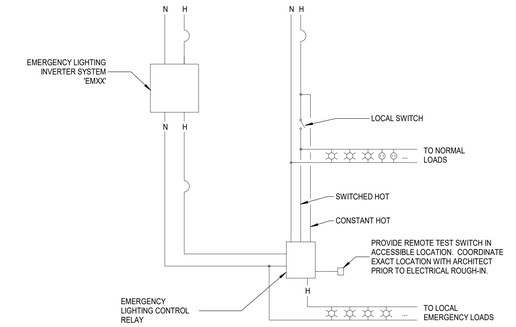
NOTES:
- PER 2021 IECC C405, AREAS / ROOMS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY ARE EXEMPT FROM AUTOMATIC CONTROLS.
- REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL INSTALLATION.
- PROVIDE PHOTOCELL WITHIN DAYLIGHT ZONE ONLY WHERE SHOWN ON FLOORPLANS.
- CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.
-ACCEPTABLE LIGHTING CONTROLS MANUFACTURERS: INTELLIGENT LIGHTING CONTROLS (ILC), COOPER, ACUITY, LUTRON.
-LIGHTING CONTROLS CATEGORY DATA CABLES TO BE LIME GREEN.



4 GROUNDING FOR TRANSFORMERS
Scale: 12" = 1'-0"



5 SYSTEM GROUNDING DETAIL
Scale: 12" = 1'-0"



REFER TO MANUFACTURER'S WIRING DETAILS AND INSTALLATION MANUALS PRIOR TO ELECTRICAL ROUGH-IN. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S REQUIREMENTS.

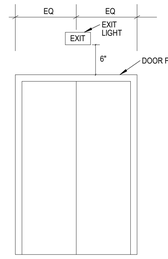
6 EMERGENCY LIGHTING CONTROL RELAY
Scale: 12" = 1'-0"

SYMBOL SCHEDULE

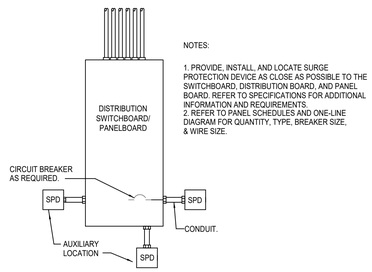
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$2	LINE VOLTAGE 2-POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE KEYED SWITCH
$3K	LINE VOLTAGE KEYED 3-WAY SWITCH
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. AUTO ON / AUTO OFF.
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$MC	MOMENTARY CONTACT SWITCH
[B]	PUSH BUTTON
$TH	6-HOUR TIMER SWITCH WITH HOLD
$T	6-HOUR TIMER SWITCH WITH NO HOLD
	20 AMP GENERATOR TRANSFER DEVICE
LOW VOLTAGE LIGHTING CONTROLS	
$R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
$B	BMCS TIMER LOCAL OVERRIDE SWITCH
	CEILING MOUNTED PHOTO SENSOR
	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
	LIGHTING CONTROLLER WITH GTD. ZONES AS REQUIRED.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	ISOLATED GROUND RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
[FACP]	FIRE ALARM CONTROL PANEL
[ANNC]	FIRE ALARM REMOTE ANNUCIATOR
[T]	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
J	DISCONNECT SWITCH AS REQUIRED
J	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
VFD	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
PB	IN-GROUND PULL BOX
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	ELECTRICAL EMERGENCY LIFE SAFETY DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:
-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

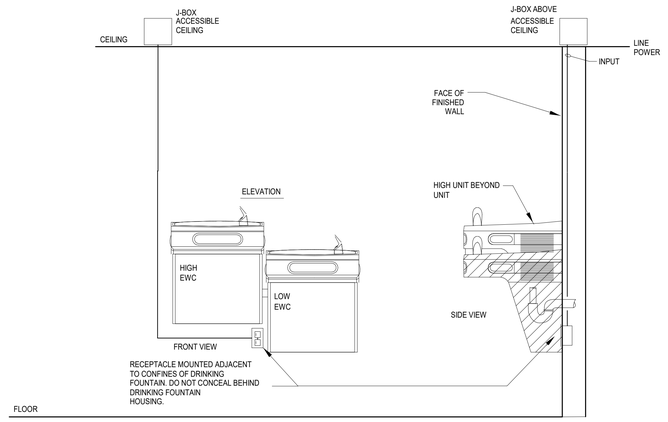


3 TYPICAL EXIT SIGN LOCATION
Scale: 12" = 1'-0"



NOTES:
1. PROVIDE, INSTALL, AND LOCATE SURGE PROTECTION DEVICE AS CLOSE AS POSSIBLE TO THE SWITCHBOARD, DISTRIBUTION BOARD, AND PANEL BOARD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM FOR QUANTITY, TYPE, BREAKER SIZE, & WIRE SIZE.

1 SURGE PROTECTION DEVICE DETAIL
Scale: 12" = 1'-0"



2 ELECTRIC DRINKING FOUNTAIN POWER REQUIREMENTS
Scale: 12" = 1'-0"

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Project No: 2023-04376-00

Notes

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09-24-2025

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

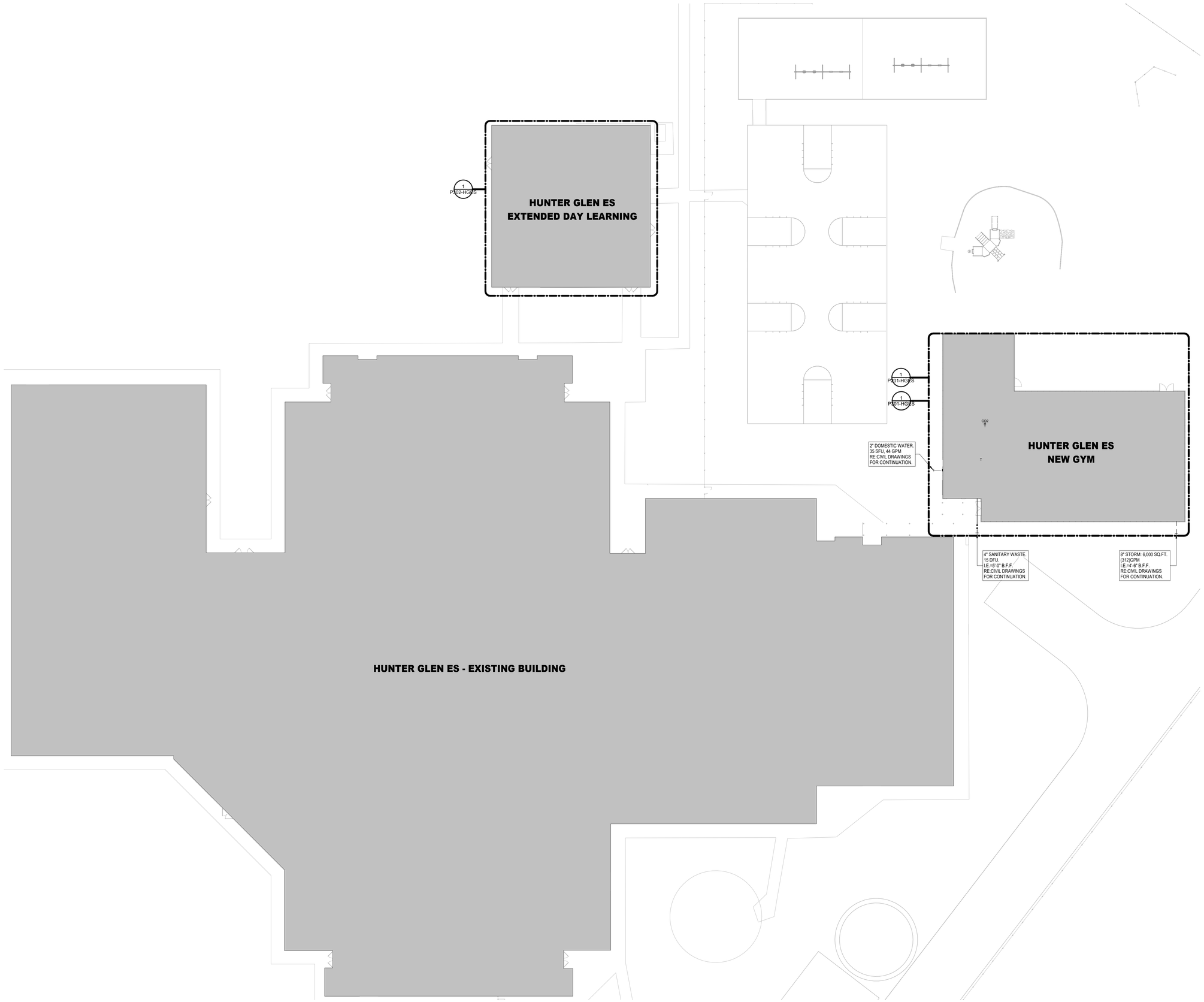
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

E501-HGES

ORIGINAL SHEET - ARCH E1



N

1 **PLUMBING COMPOSITE PLAN**
Scale: 1/16" = 1'-0"

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Notes

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	AA	AA	EH	11/27/24

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

PLUMBING COMPOSITE PLAN

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.

P100-HGES

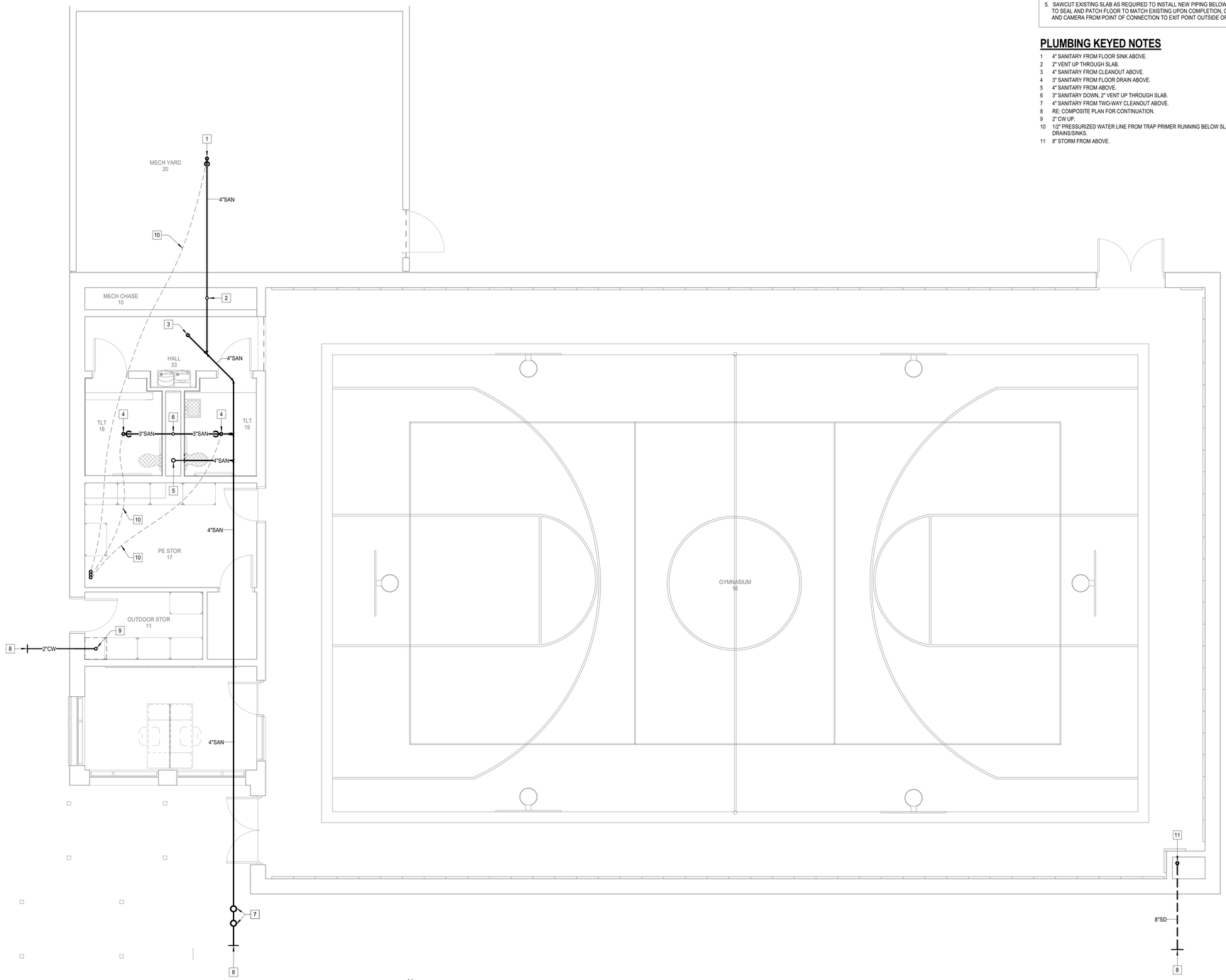
ORIGINAL SHEET - ARCH E1

PLUMBING GENERAL NOTES

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.
4. ANY OTHER ITEMS NOT REFERENCED WHICH ARE LOCATED IN THE DEMOLISHED SPACE (VENT, WASTE, WATER HEATER, PLUMBING FIXTURE, ETC.) THAT ARE IDENTIFIED OR DISCOVERED DURING DEMOLITION WHICH WILL NOT BE USED FOR THIS PROJECT, SHALL BE DEMOLISHED BACKTO THE MAIN SOURCE OR RISER, AND DEVICES SHALL BE RETAINED TO THE OWNER STORAGE AS DIRECTED BY THE ARCHITECT/OWNER.
5. SAWCUT EXISTING SLAB AS REQUIRED TO INSTALL NEW PIPING BELOW FLOOR. CONTRACTOR TO SEAL AND PATCH FLOOR TO MATCH EXISTING UPON COMPLETION, CONTRACTOR TO JET AND CAMERA FROM POINT OF CONNECTION TO EXIT POINT OUTSIDE OF BUILDING

PLUMBING KEYED NOTES

1 4" SANITARY FROM FLOOR SINK ABOVE.
2 2" VENT UP THROUGH SLAB.
3 4" SANITARY FROM CLEANOUT ABOVE.
4 3" SANITARY FROM FLOOR DRAIN ABOVE.
5 4" SANITARY FROM ABOVE.
6 3" SANITARY DOWN, 2" VENT UP THROUGH SLAB.
7 4" SANITARY FROM TWO-WAY CLEANOUT ABOVE.
8 RE: COMPOSITE PLAN FOR CONTINUATION.
9 2" CW UP.
10 1/2" PRESSURIZED WATER LINE FROM TRAP PRIMER RUNNING BELOW SLAB, SERVING FLOOR DRAINS/SINKS.
11 8" STORM FROM ABOVE.



N

1 **PLUMBING UNDERFLOOR PLAN - LEVEL 0 - ENLARGED - NEW GYM**
Scale: 1/4" = 1'-0"

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Project No: 2023-04376-00

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
PLUMBING UNDERFLOOR ENLARGED PLAN - NEW GYM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	P201-HGES

ORIGINAL SHEET - ARCH E1

FIRE SPRINKLER SYSTEM NOTES

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

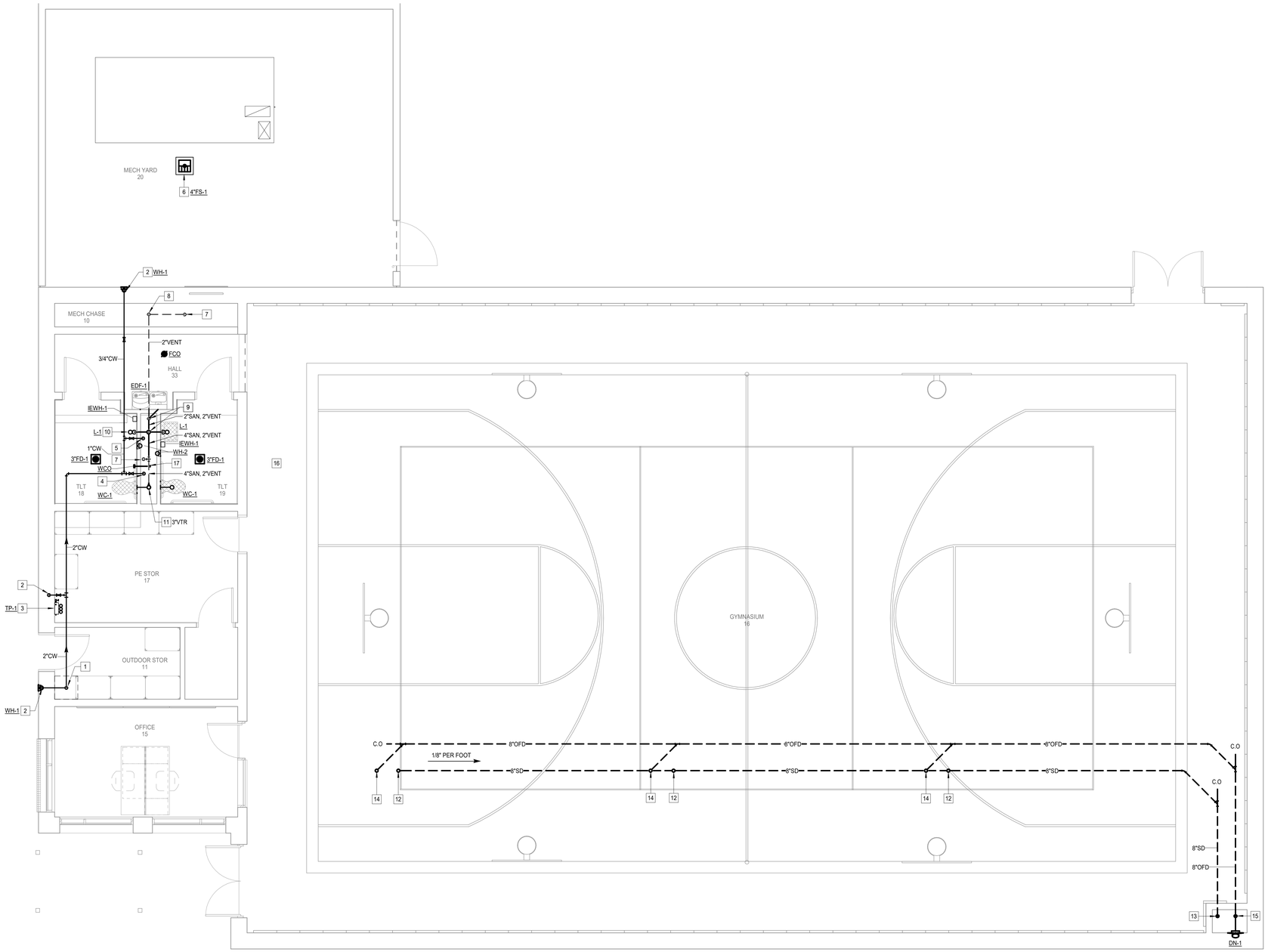
E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

PLUMBING GENERAL NOTES

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.
4. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
5. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
6. REFER TO PLUMBING SCHEDULES, AND DETAILS.

PLUMBING KEYED NOTES

1 2" CW FROM BELOW SLAB. 2" WATER ENTRY. REFER TO PLUMBING DETAILS SHEET.
2 3/4" CW DOWN TO SERVE PLUMBING FIXTURE/S.
3 PROVIDE AND INSTALL NEW TRAP PRIMER AT 5'-0" ABOVE GRADE. RE: PLUMBING SCHEDULES AND DETAILS SHEETS FOR MORE INFORMATION.
4 2" COLD WATER DOWN IN CHASE. EXTEND 1-1/2" LINE TO EACH WATER CLOSET.
5 1" COLD WATER DOWN IN CHASE. EXTEND 1" LINE TO SERVE WALL HYDRANTS, INSTANTANEOUS WATER HEATERS, AND LAVATORIES. EXTEND 3/4" LINE TO SERVE ELECTRIC WATER FOUNTAIN.
6 ELEVATED CONDENSATE FLOOR SINK. RE: PLUMBING DETAILS SHEET FOR MORE INFORMATION.
7 2" VENT FROM BELOW.
8 2" VENT UP.
9 2" SANITARY DOWN, 2" VENT UP.
10 PROVIDE WYE-TAILPIECE FOR DMS-1 CONDENSATE DRAIN. RE: M201 FOR ADDITIONAL INFORMATION.
11 4" SANITARY DOWN THROUGH SLAB, 2" VENT UP. UPSIZE VENT PIPE TO 3" AT THE TEE AND VENT THROUGH ROOF.
12 8" STORM FROM ROOF DRAIN ABOVE.
13 8" STORM DOWN TO BELOW SLAB.
14 8" STORM OVERFLOW FROM OVERFLOW DRAIN ABOVE.
15 8" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE. REFER TO ARCHITECTURAL DRAWING FOR EXACT ELEVATION.
16 EXTEND BUILDING FIRE ALARM AND FIRE SPRINKLER SYSTEM INTO NEW AREA.
17 4" SANITARY DOWN FROM WCO ABOVE.



N

1 **PLUMBING PLAN - LEVEL 1 - ENLARGED - NEW GYM**
Scale: 1/4" = 1'-0"

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
PLUMBING ENLARGED PLAN - LEVEL 1 - NEW GYM

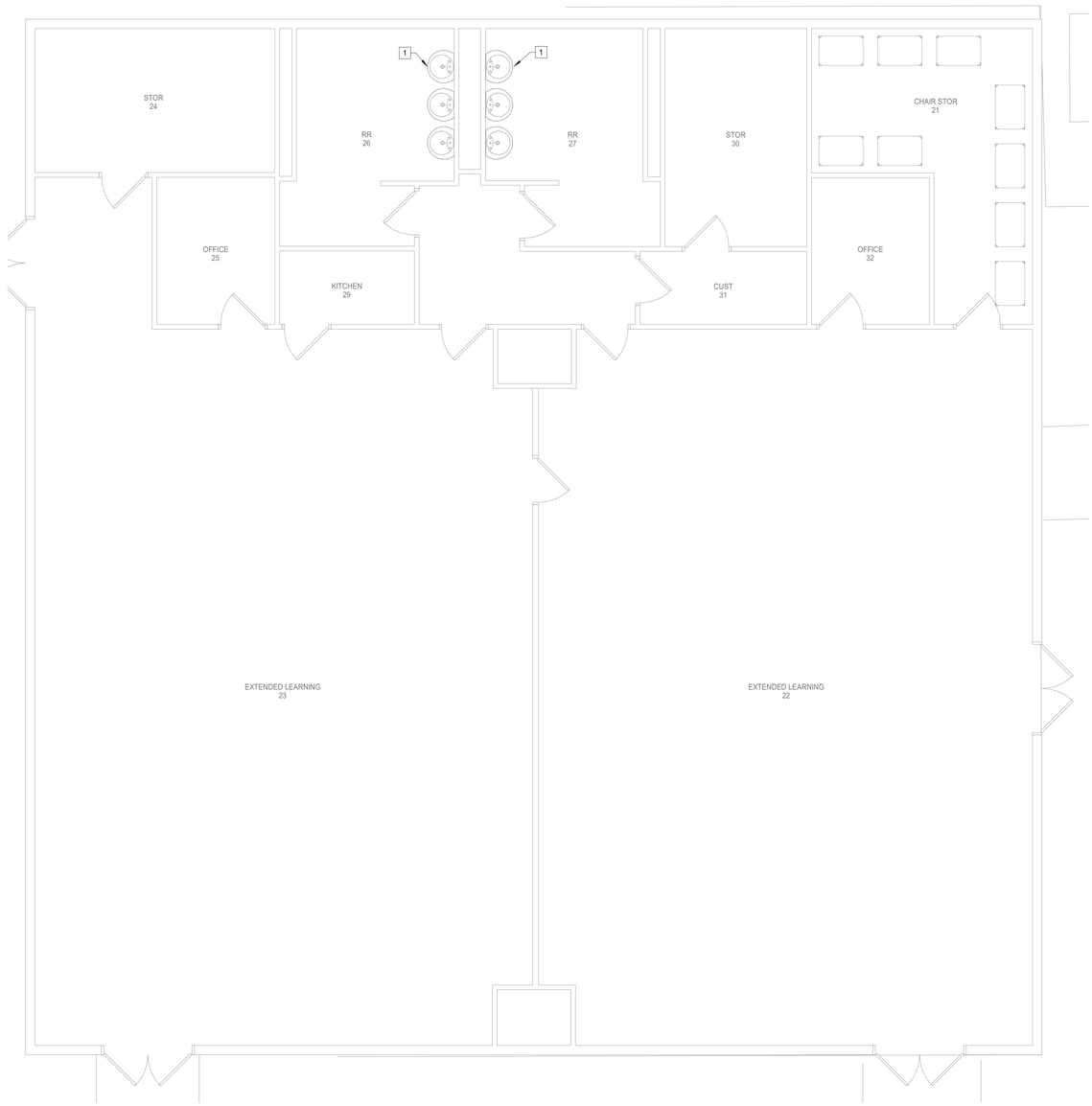
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

P301-HGES

9/22/2025 10:49:54 AM
ORIGINAL SHEET - ARCH E1

PLUMBING KEYED NOTES

1 PROVIDE INSULATION KITS AT ALL LAVATORIES. RE: GENERAL NOTES, PLUMBING LEGENDS AND SCHEDULES SHEET.



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1 **PLUMBING PLAN - LEVEL 1 - ENLARGED - EXTENDING DAY LEARNING**
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	AA	AA	EH	11/27/24

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09-24-2025

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

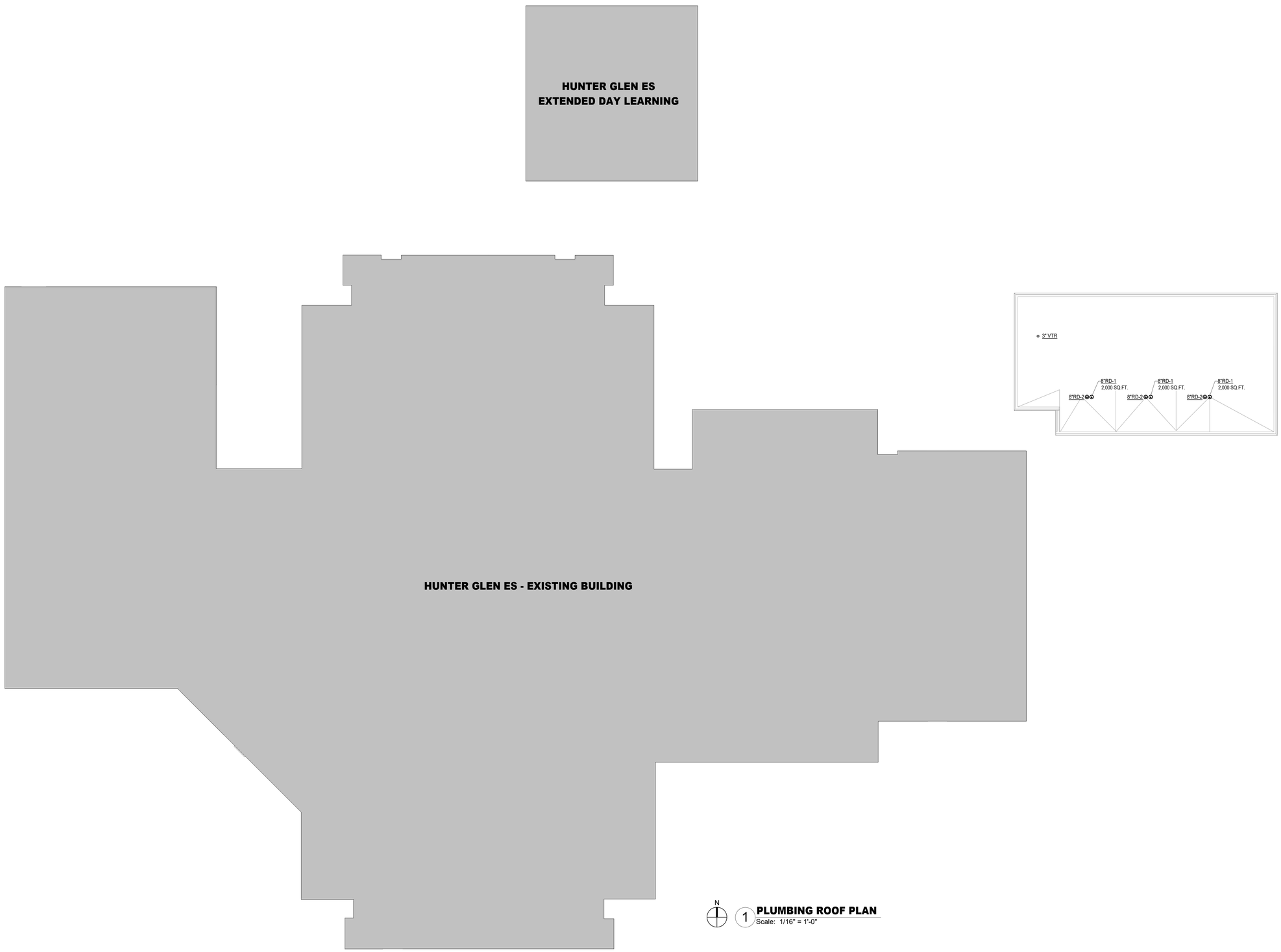
695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
PLUMBING ENLARGED PLAN - LEVEL 1 - EXTENDED DAY LEARNING

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

P302-HGES

ORIGINAL SHEET - ARCH E1



1 **PLUMBING ROOF PLAN**
Scale: 1/16" = 1'-0"

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Houston, TX 77064

Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	AA	AA	EH	11/27/24

Permit/Seal

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
09-24-2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title

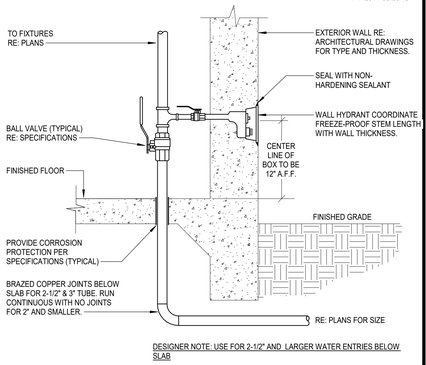
PLUMBING ROOF PLAN

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.

P401-HGES

ORIGINAL SHEET - ARCH E1

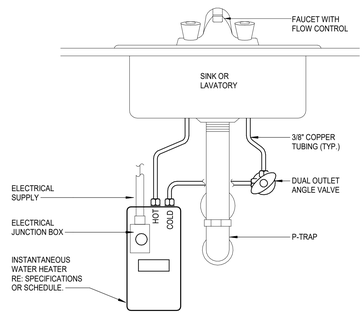
PWE04 - 03/20/18



DESIGNER NOTE: USE FOR 2-1/2" AND LARGER WATER ENTRIES BELOW SLAB

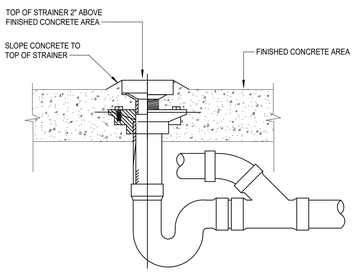
16 DOMESTIC WATER ENTRY
SCALE: NONE

PHW02 - 09/10/18



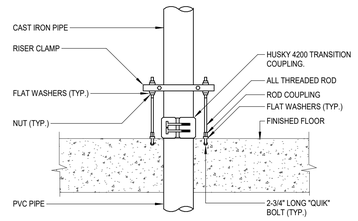
INSTANTANEOUS ELECTRIC WATER HEATER PIPING FOR SINK OR LAVATORY
12
SCALE: NONE

PCON04 - XX/XX/XX



8 OUTDOOR CONDENSATE DRAIN
SCALE: NONE

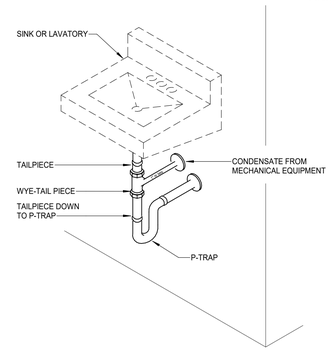
PSAN12- 05/16/24



NOTE:
1. MAKE CONNECTION FROM PVC BELOW SLAB TO CAST IRON ABOVE SLAB WITH HUSKY 4200 TRANSITION COUPLING.
2. THERE IS TO BE NO EXPOSED PVC ABOVE SLAB.

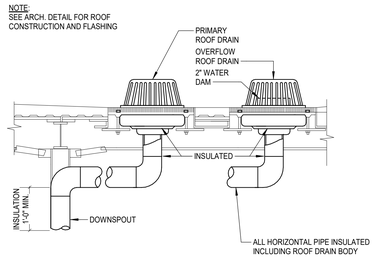
4 CAST IRON TO PVC TRANSITION
SCALE: NONE

PSAN12- 05/16/24



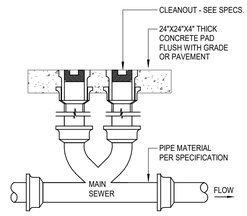
19 WYE-TAILPIECE CONDENSATE CONNECTION
SCALE: NONE

PST02 - 10/29/20



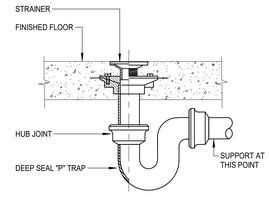
15 STORM DRAIN INSULATION
SCALE: NONE

PSAN05- XX/XX/XX



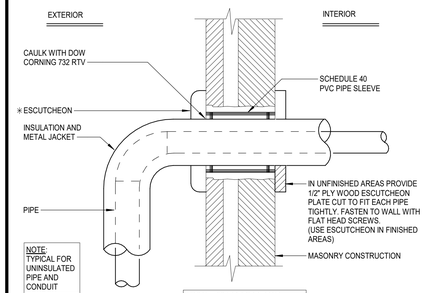
11 TWO-WAY EXTERIOR CLEANOUT
SCALE: NONE

PSAN07- XX/XX/XX



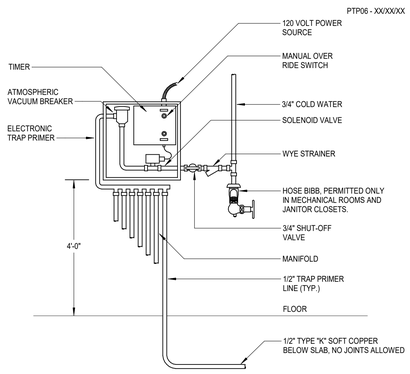
7 FLOOR DRAIN
SCALE: NONE

PSL03- XX/XX/XX

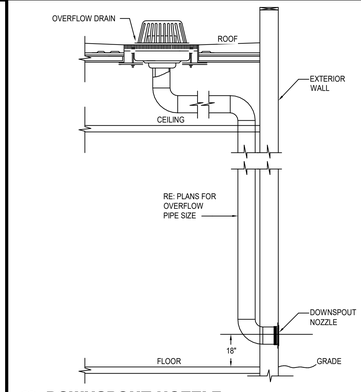


3 EXTERIOR WALL PENETRATION
SCALE: NONE

PTP06 - XX/XX/XX

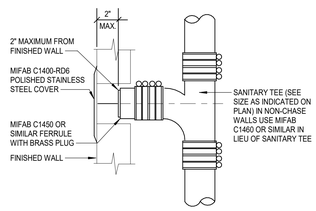


18 ELECTRONIC TRAP PRIMER
SCALE: NONE



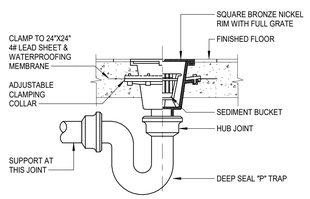
14 DOWNSPOUT NOZZLE
SCALE: NONE

PSAN03- XX/XX/XX



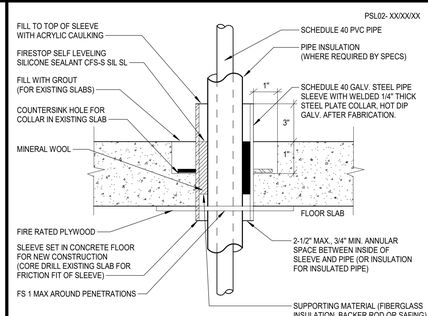
10 WALL CLEANOUT
SCALE: NONE

PSAN08- XX/XX/XX



6 FLOOR SINK
SCALE: NONE

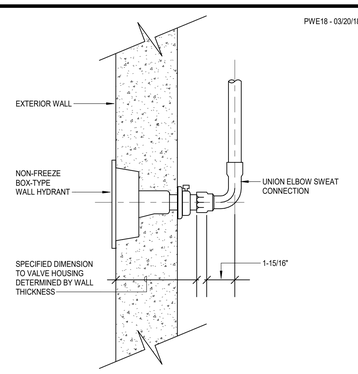
PSL02- XX/XX/XX



NOTE:
UL APPROVED PIPING ASSEMBLIES EQUAL TO UL SYSTEM # FOR UNINSULATED PIPE AND SYSTEM # FOR INSULATED PIPE

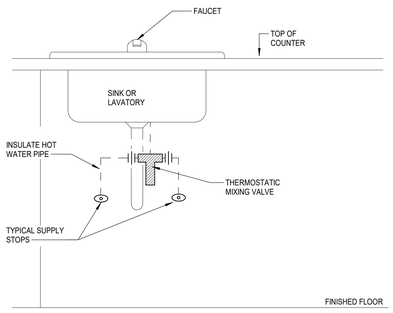
2 INTERIOR FLOOR PENETRATION
SCALE: NONE

PWE18 - 03/20/18



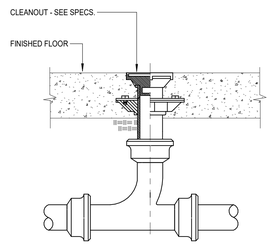
17 NON-FREEZE WALL HYDRANT CONNECTION
SCALE: NONE

PHW04 - 08/10/20



THERMOSTATIC MIXING VALVE AT SINK/LAVATORY SINGLE TEMPERATURE
13
SCALE: NONE

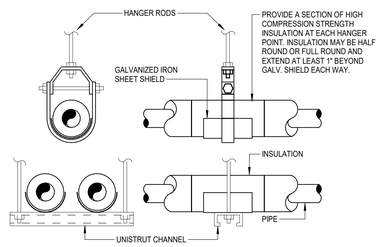
PSAN01- XX/XX/XX



9 FLOOR CLEANOUT
SCALE: NONE

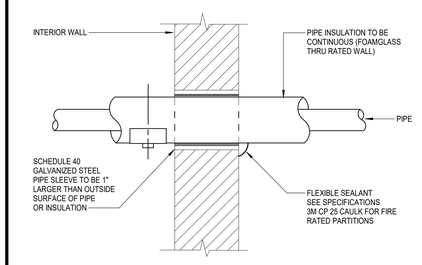
PP01 - XX/XX/XX

MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GAUGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	18
6"	18	16



5 PIPE SHIELDS FOR INSULATED PIPING
SCALE: NONE

PSL01- XX/XX/XX



1 INTERIOR WALL PENETRATION
SCALE: NONE

Stantec
OFFICE LEGAL ENTITY
OFFICE ADDRESS LINE 1
OFFICE ADDRESS LINE 2
OFFICE CITY, XX XXX XXX
Tel: (000) 000.0000 • www.stantec.com

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Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	AA Dwn.	AA Dsgn.	EH Chkd. 11/27/24 YYYY.MM.DD

Permit/Seal

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
PLUMBING DETAILS

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

P501-HGES

ORIGINAL SHEET - ARCH E1

PLUMBING GENERAL NOTES

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
10. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
12. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
14. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
15. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
16. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

TANKLESS ELECTRIC WATER HEATER SCHEDULE

ITEM NO.	TEMP RISE AT 0.5 GPM (°F)	WATER TEMP MAXIMUM (°F)	STORAGE CAPACITY	ACTIVATION FLOW (GPM)	TOTAL KW INPUT	VOLT/PHASE	MANUFACTURER / COMMENTS
IEWH-1	66	120	NA	0.3	4.9	208V/1PH.	Eemax, AccuMix® AM007240T

NOTES:

1. 30 PSI MINIMUM OPERATING PRESSURE REQUIRED. CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE PRIOR TO PURCHASING AND INSTALLING EQUIPMENT.
2. INSTALL HEATER AND ROUTE PIPING BASED ON MANUFACTURERS RECOMMENDATIONS.
3. UNIT SHALL HAVE REPLACEABLE FILTER IN THE INTEL CONNECTOR.
4. HEATER SHALL BE PROVIDED WITH ASSE 1070 APPROVED INTEGRATED MIXING VALVE TO CONFORM TO UPC 407.3.
5. MOUNTING LOCATION MUST BE LOCATED WITHIN TWO FEET OF FIXTURE.

PLUMBING FIXTURE SCHEDULE

TYPE: WC-1 (T.A.S. COMPLIANT)
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA WITH EVERCLEAN, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. AMERICAN STANDARD "AFWALL" #3351.101
SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. BEMIS #1955SSCT.
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROAYL #111-1.28.
CARRIER: WADE #311 AND #330 SERIES -AM1.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: L-1 (T.A.S. COMPLIANT) METERED - STUDENT - TEMPERED
DESCRIPTION: LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, 4" FAUCET SPREAD. AMERICAN STANDARD "LUCERNE" #0355.012.
FAUCET: CHROME PLATED BRASS DECK MOUNTED, 4" FIXED CENTERS LAVATORY FAUCET WITH COVER PLATE, 4-1/8" SPOUT, AND PUSH BUTTON HANDLE INDEXED "PUSH", SELF CLOSING METERING CARTRIDGE, VANDAL PROOF 0.5 GPM LAMINAR SPRAY. CHICAGO MODEL #857-E280S-665PSHAB.
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE, LEAD FREE BRONZE BODY, INTEGRAL CHECK VALVES, COMPRESSION FITTINGS, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER THERMOPLASTIC SHUTTLE. LEONARD 170-LF-BRKT. (105 F).
STRAINER: 1-1/4". 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE #8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE #520-08.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER - TEMPERED OUT. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: EDF-1 (T.A.S. COMPLIANT) - INTERIOR
DESCRIPTION: WALL HUNG, BOTTLE FILLING STATION AND BI-LEVEL VANDAL-RESISTANT COOLER HIGH EFFICIENCY NON-FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50F DRINKING WATER, BASED ON 80F INLET WATER AND 90F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL, GREEN COUNTER, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, SANITARY SENSOR ACTIVATED, VANDAL RESISTANT SMARTFLOW BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT. HALSEY TAYLOR #HTHB-HVRGRNBL-NF. PROVIDE CANE TOUCH APRON IN ALL STAINLESS STEEL ON ALL UNITS MOUNTED WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH. ELKAY APRON #98324C.
P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE #8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE #403-BL.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: FS-1
SERVICE: MECHANICAL ROOM EQUIPMENT CONDENSATE.
DESCRIPTION: CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED ADA GRATE. 12" SQUARE FLOOR SINK WITH 8" DEEP DOME BOTTOM STAINER. WHITE ABS SEDIMENT BUCKET. FLASHING CLAMP. NB RIM AND ½ STAINLESS STEEL GRATE, TRAP PRIMER. JAY R SMITH # 3150-C-12-NBSS-P
TRAP PRIMER: SERVED BY ELECTRONIC TRAP PRIMER, REFER TO PLANS.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.

TYPE: FD-1
SERVICE: TOILET ROOMS AND GENERAL USE
DESCRIPTION: FLOOR DRAIN, DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD WITH ADA GRATE. 6" ROUND TOP, NICKLE BRONZE STRAINER WITH STAINLESS STEEL GRATE, TRAP PRIMER CONNECTION 1/2", WITH VANDAL PROOF SCREWS. JAY R SMITH #2005-A06NBSS-P050-U
TRAP PRIMER: SERVED BY ELECTRONIC TRAP PRIMER, REFER TO PLANS.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

TYPE: TP-1 (FLUSH MOUNT)
SERVICE: TLT 18, TLT 19, AND MECH YARD 20
DESCRIPTION: ELECTRONIC TRAP PRIMER WITH FLUSH MOUNT CABINET AND STAINLESS STEEL ACCESS DOOR, SOLENOID VALVE, 1/2" COMPRESSION FITTING ATMOSPHERIC VACUUM BREAKER, CIRCUIT BREAKER, AND TIMER. 120V. PRECISION PLUMBING PRODUCTS "PRIME-TIME" #PT-4.
ROUGH-IN: 3/4" COLD WATER.

TYPE: RD-1
DESCRIPTION: ROOF DRAIN, DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ALUMINUM DOME. SUMP RECEIVER AND UNDERDECK CLAMP. JAY R SMITH # 1010-AD-R-C FOR 8" AND SMALLER. #1010-20" DIA-AD-R-C FOR 10" AND LARGER
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: RD-2
DESCRIPTION: OVERFLOW ROOF DRAIN. DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH ALUMINUM DOME, AND CAST IRON WATER DAM. SUMP RECEIVER, UNDERDECK CLAMP. JAY R SMITH # 1080-AD-R-C FOR 8" AND SMALLER OUTLET. # 1080-20" DIA-AD-R-C FOR 10" AND LARGER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: DN-1
DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE WITH HINGED PERFORATED COVER. VANDAL PROOF. FABRICATED STAINLESS STEEL WITH NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. JAY R SMITH : 1775 - U
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: WH-1 - COLD WATER - NON FREEZ
DESCRIPTION: ENCASED, LEAD-FREE, NON-FREEZ WALL HYDRANT. INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, COPPER CASING, ALL-BRONZE INTERIOR COMPONENTS WITH 1/2 TURN CERAMIC CARTRIDGE, COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION. 304 SS HOUSING WITH LOCKING HINGED. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE #8701-L6.
ROUGH-IN: 3/4" COLD WATER.

TYPE: WH-2 - COLD WATER - RESTROOMS
DESCRIPTION: ENCASED, LEAD-FREE, INTERIOR WALL HYDRANT. INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, COPPER CASING, ALL-BRONZE INTERIOR COMPONENTS WITH 1/2 TURN CERAMIC CARTRIDGE, COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION. 304 SS FLANGED BOX WITH LOCKING HINGED COVER. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE #8708
ROUGH-IN: 3/4" COLD WATER.

TYPE: WCO
DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK BRONZE PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE #8550-75 WITH #8304-VP. PROVIDE WADE #8560 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.

TYPE: FCO
DESCRIPTION: FLOOR CLEANOUT, PAINTED CAST IRON ADJUSTABLE FLOOR CLEANOUT WITH ABS THREADED ADJUSTABLE HOUSINGS, FLANGED CAST IRON FERRULE, INTEGRAL CLAMPING COLLAR, GASKETED ABS THREADED PLUG AND SCORIATED STAINLESS STEEL TOP. WADE #6000-85. FOR CARPETED FLOORS PROVIDE WADE #6000-85-CM. FOR TERRAZO TILES #6000-85-U, FOR RECESSED TILE #6000-85-T. FOR VCT TILES COORDINATE WITH MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

TYPE: ECO
DESCRIPTION: EXTERIOR CLEANOUT TO GRADE. PAINTED CAST IRON BODY WITH ANCHOR FLANGE ADJUSTABLE TOP ASSEMBLY, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE #6000-Z.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSTATE DRAIN PIPING (CD)
D	CONDENSTATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
CDW	CHILLED DRINKING WATER PIPING (CDW)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
AP	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P / 1	4" VTR RISER FLAG

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Notes

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	AA	AA	EH	11/27/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
PLUMBING LEGENDS AND SCHEDULES

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

P601-HGES

9/22/2025 10:49:47 AM
ORIGINAL SHEET - ARCH E1

AUDIO/VISUAL MULTIMEDIA LEGEND

SYMBOL	DESCRIPTION
A##> V##>	WALL AV ROUGH-IN DETAIL
A## V##	CEILING AV ROUGH-IN DETAIL
A## V##	FLOOR AV ROUGH-IN DETAIL
IWB | IWB	INTERACTIVE WHITE BOARD - WALL - CEILING
PJ | PJ	MULTIMEDIA PROJECTOR
FP# | FP#	MULTIMEDIA FLAT PANEL DISPLAY
S S	LOUDSPEAKER, WALL MOUNTED AND CEILING MOUNTED RESPECTIVELY - # INDICATES TYPE
CP#	CONTROL PANEL
TP#	TOUCH PANEL
M	MICROPHONE, CEILING MOUNTED - # INDICATES TYPE
VC ▷	VOLUME CONTROL
WB	WALL BOX ENCLOSURE
D1 A1	D1 = DIGITAL SINGLE SIDED CLOCK / A1 = ANALOG SINGLE SIDED CLOCK
D2 A2	D2 = DIGITAL DOUBLE SIDED CLOCK / A2 = ANALOG DOUBLE SIDED CLOCK
ENC	CEILING AV ENCLOSURE
C C	PRESENTATION CAMERA - CEILING - WALL MOUNTED

PREMISE SECURITY LEGEND

SYMBOL	DESCRIPTION
CR	CARD READER
CR M	CARD READER MULLION
KP	INTRUSION DETECTION KEYPAD
IC	INTERCOM (1 DATA CABLE)
IC MS	INTERCOM MASTER STATION (1 DATA CABLE)
PB	PANIC/DURESS BUTTON
LD	LOCK DOWN BUTTON
MD	MOTION DETECTOR
GB	ACCOUSTICAL GLASS BREAK SENSOR
BM	BIOMETRIC READER
RX	REQUEST TO EXIT - SURFACE PIR
KS	KEY SWITCH
LA	LOCAL ALARM SOUNDER
RG	RED/GREEN INDICATOR LIGHT
DB	DOORBELL
DH	MAGNETIC DOOR HOLD
DR	DOOR RELEASE
RX	REQUEST TO EXIT - INTEGRAL TO DOOR HARDWARE
DC	DOOR CONTACT / MONITOR
ES EL EH	ELECTRIFIED STRIKE - ELECTRIFIED LATCH - ELECTRIFIED HARDWARE (REFER TO SCHEDULES)
C C	STANDARD IP SURVEILLANCE CAMERA, (1) CABLE
C C C	180° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° FISHEYE LENS CAMERA
IR	IR ILLUMINATOR

STRUCTURED CABLING LEGEND

SYMBOL	DESCRIPTION
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF DATA CABLE(S)/JACK(S)
##	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S)
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S), SURFACE MOUNT
##	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S), SURFACE MOUNT
W	WALL MOUNT PHONE (1 CABLE/JACK)
W	WALL MOUNT PHONE, SURFACE MOUNT (1 CABLE/JACK)
#	FLOOR MOUNTED OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
##	FLOOR MOUNTED OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#	CEILING MOUNTED DATA OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S)
AP#	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
AP#>	WALL MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
	CABLING SLEEVE(S)
	TYPICAL LADDER RACK
	TYPICAL CABLE TRAY, BASKET STYLE

GENERAL ANNOTATION LEGEND

SYMBOL	DESCRIPTION
MER	MAIN EQUIPMENT ROOM
TR	TELECOMMUNICATION ROOM
MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
ETR	EXISTING TO REMAIN
PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
PSC	PREMISE SECURITY CONTRACTOR
SCC	STRUCTURAL CABLING CONTRACTOR
AVC	AV/MULTIMEDIA CONTRACTOR
UNO	UNLESS NOTED OTHERWISE
ACS	ACCESS CONTROL SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM

TECHNOLOGY SHEET INDEX

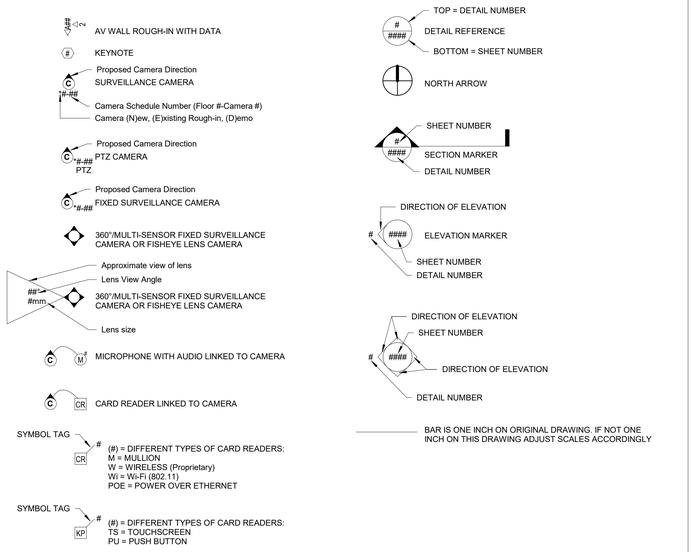
SHEET NUMBER	SHEET NAME
T000 - HGES	TECHNOLOGY - INDEX SHEET
T010 - HGES	TECHNOLOGY - SITE PLAN
T101 - HGES	TECHNOLOGY - GYM
T400 - HGES	TECHNOLOGY - ENLARGEMENTS

TECHNOLOGY - GENERAL NOTES

1. EACH KEYNOTE MAY NOT BE UTILIZED ON EVERY SHEET.
2. ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
3. ALL CABLES SHALL BE CONCEALED.
4. EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 2" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL COMPLY WITH NEC.
5. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL REVIEW CONDITIONS AND COORDINATE WITH OTHER TRADES AS NECESSARY FOR EXACT PLACEMENT.

TECHNOLOGY SYMBOLS LEGEND

NOT ALL SYMBOLS ARE USED



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Notes

Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker
	Dwn.	Dsgn.	Chkd.
			2025.07.23 YYYY.MM.DD

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2020 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

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695 INDEPENDECE BLVD, MISSOURI CITY, TX 77489

Title

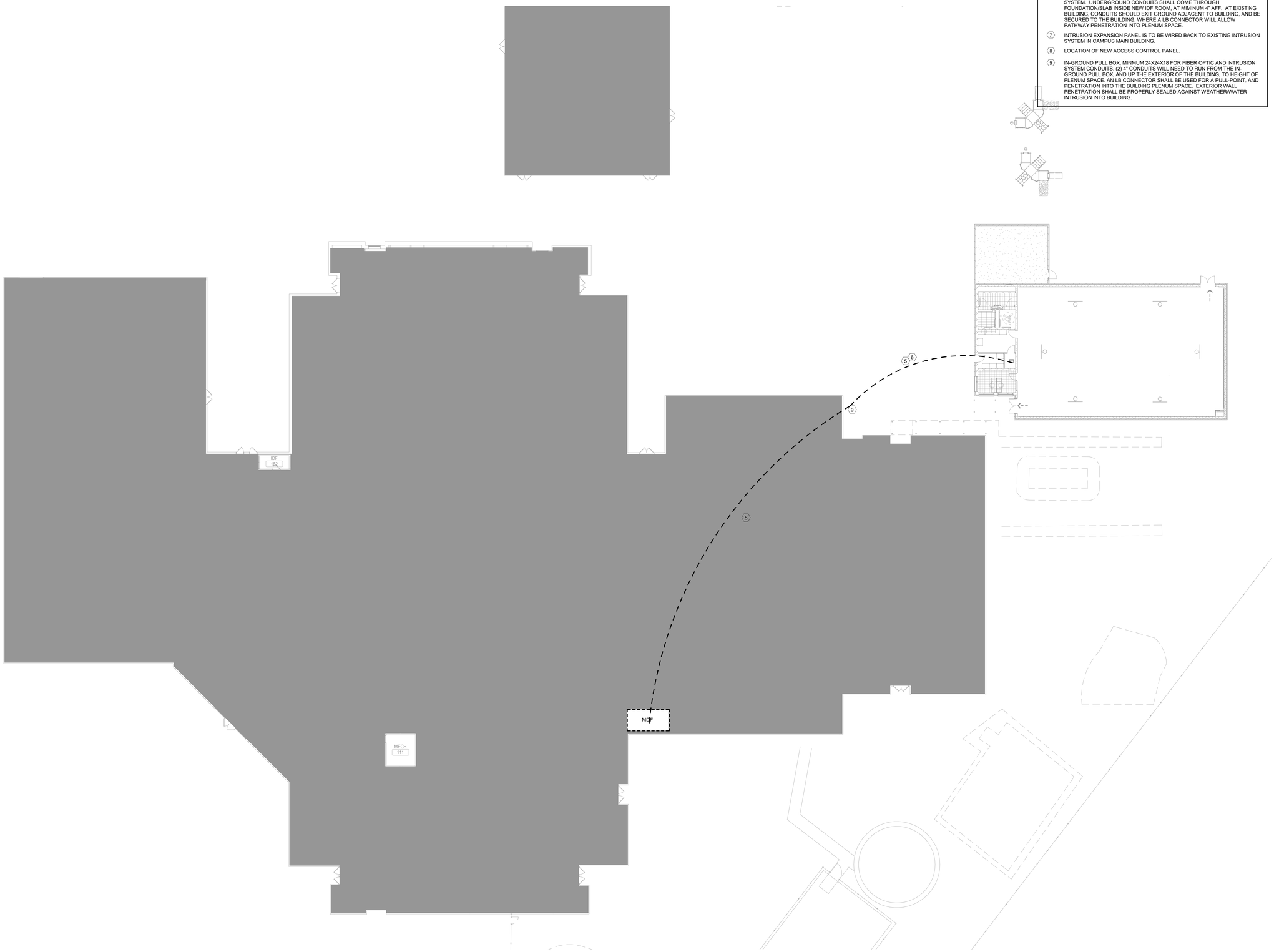
TECHNOLOGY - INDEX SHEET

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	T000 - HGES

<File Location in Project Information>
4/22/2025 5:40:48 PM
ORIGINAL SHEET - ARCH E1

TECHNOLOGY KEYNOTES

1. CONTRACTOR TO PROVIDE AND INSTALL PROTECTIVE WIRE CAGES FOR WIRELESS ANALOG CLOCKS.
2. NOT USED.
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
4. ELECTRICAL CONTRACTOR TO PROVIDE 1" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
5. 12-STRAND MM FIBER FROM MDF TO NEW IDF RACK.
6. TWO (2) UNDERGROUND 4" SCEDULE 80 CONDUITS WITH 3-CELL MAXCELL DETECTABLE INNERDUCT FOR FIBER CONNECTIVITY, AND ONE (1) 1-1/2" UNDERGROUND SCHEDULE 80 CONDUIT WITH PULL STRING FOR INTRUSION SYSTEM. UNDERGROUND CONDUITS SHALL COME THROUGH FOUNDATION/SLAB INSIDE NEW IDF ROOM, AT MIMINUM 4" AFF. AT EXISTING BUILDING, CONDUITS SHOULD EXIT GROUND ADJACENT TO BUILDING, AND BE SECURED TO THE BUILDING, WHERE A LB CONNECTOR WILL ALLOW PATHWAY PENETRATION INTO PLENUM SPACE.
7. INTRUSION EXPANSION PANEL IS TO BE WIRED BACK TO EXISTING INTRUSION SYSTEM IN CAMPUS MAIN BUILDING.
8. LOCATION OF NEW ACCESS CONTROL PANEL.
9. IN-GROUND PULL BOX, MINMUM 24X24X18 FOR FIBER OPTIC AND INTRUSION SYSTEM CONDUITS. (2) 4" CONDUITS WILL NEED TO RUN FROM THE IN-GROUND PULL BOX, AND UP THE EXTERIOR OF THE BUILDING, TO HEIGHT OF PLENUM SPACE. AN LB CONNECTOR SHALL BE USED FOR A PULL-POINT, AND PENETRATION INTO THE BUILDING PLENUM SPACE. EXTERIOR WALL PENETRATION SHALL BE PROPERLY SEALED AGAINST WEATHER/WATER INTRUSION INTO BUILDING.



1 01 - Level 1 - Site Plan
SCALE: 1/16" = 1'-0"

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Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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Title
TECHNOLOGY - SITE PLAN

Project No. 214001246
Scale As indicated
Revision
Drawing No.

T010 - HGES

*Plot location in Project Information
7/22/2025 5:43:47 PM
ORIGINAL SHEET - ARCH E1

TECHNOLOGY KEYNOTES

1. CONTRACTOR TO PROVIDE AND INSTALL PROTECTIVE WIRE CAGES FOR WIRELESS ANALOG CLOCKS.
2. NOT USED.
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
4. ELECTRICAL CONTRACTOR TO PROVIDE 1" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
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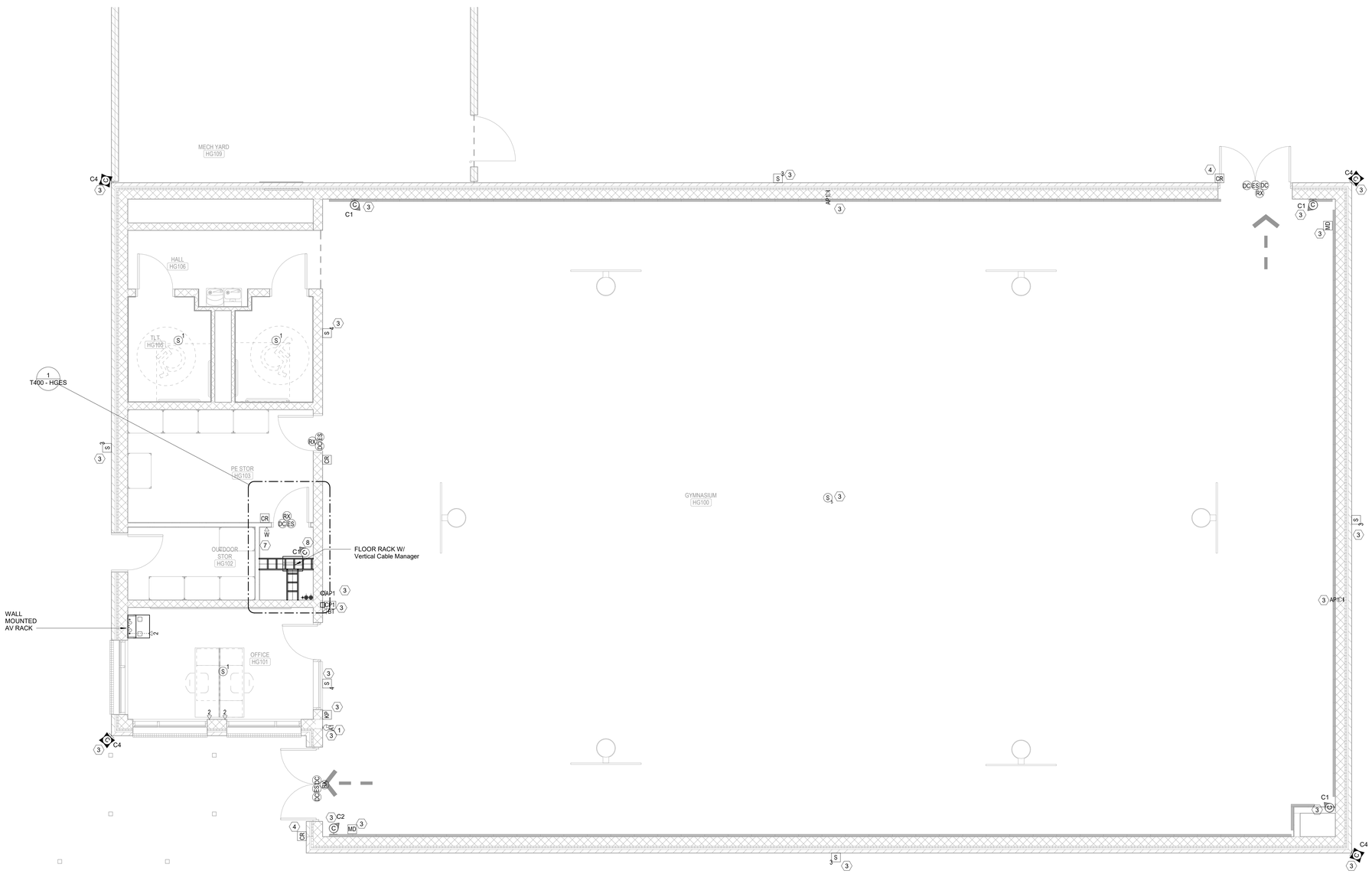
7. INTRUSION EXPANSION PANEL IS TO BE WIRED BACK TO EXISTING INTRUSION SYSTEM IN CAMPUS MAIN BUILDING.
8. LOCATION OF NEW ACCESS CONTROL PANEL.
9. IN-GROUND PULL BOX, MINMUM 24X24X18 FOR FIBER OPTIC AND INTRUSION SYSTEM CONDUITS. (2) 4" CONDUITS WILL NEED TO RUN FROM THE IN-GROUND PULL BOX, AND UP THE EXTERIOR OF THE BUILDING, TO HEIGHT OF PLENUM SPACE. AN LB CONNECTOR SHALL BE USED FOR A PULL-POINT, AND PENETRATION INTO THE BUILDING PLENUM SPACE. EXTERIOR WALL PENETRATION SHALL BE PROPERLY SEALED AGAINST WEATHER/WATER INTRUSION INTO BUILDING.



1 01 - Level 1 - Gym
SCALE: 1/4" = 1'-0"

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Notes

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Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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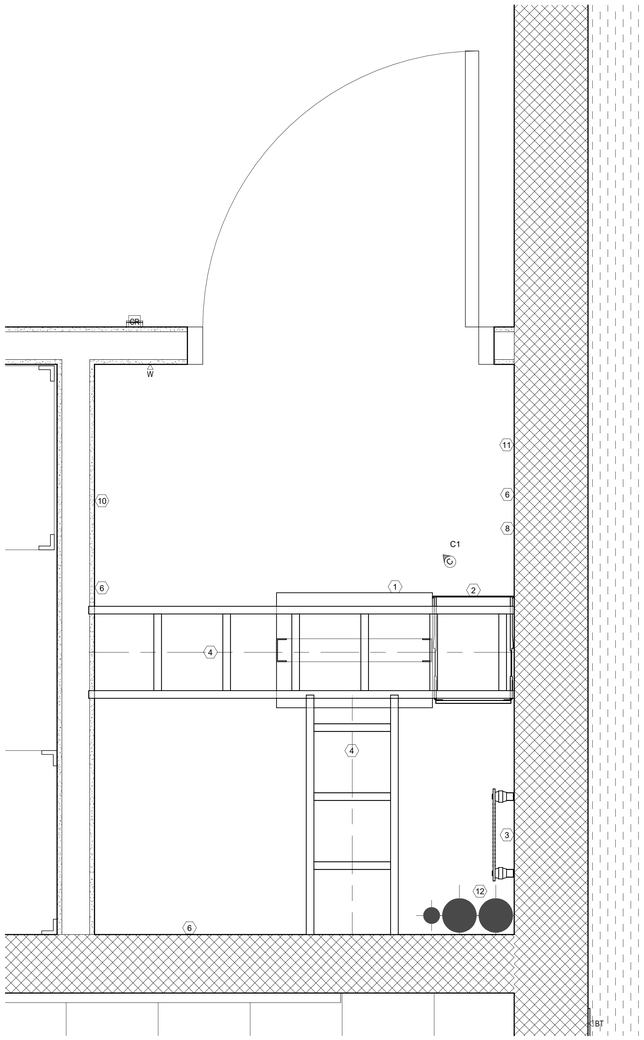
Title
TECHNOLOGY - GYM

Project No. 214001246
Scale As indicated
Revision
Drawing No.

T101 - HGES

•Pick location in Project Information•
4/7/2025 5:40:31 PM
ORIGINAL SHEET - ARCH E1



1 01 - Level 1 - Composite Floor Plan - Gym
IDF
SCALE: 1 1/2" = 1'-0"

ENLARGEMENT KEYNOTES

1. 2-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
2. 10" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
3. GROUND BUS BAR, MOUNTED 6' AFF, ELECTRON PLATED AND PREDRILLED TO ACCEPT STANDARD TWO-HOLE LUGS.
4. 18"x2" LADDER RACK SECURED TO TOP OF RACK WITH LADDER RACK MOUNTING PLATE AND BOLTED TO WALL, WITH WATER FALLS INTO VERTICAL WIRE MANAGERS (TYPICAL)
5. 12"x4" CABLE TRAY (BASKET STYLE) WITH 6" CLEARANCE FROM WALL (TYPICAL)
6. 3/4" FIRED RATED PLYWOOD SECURED TO WALL AT 22" AFF. IF THE PLYWOOD IS PAINTED, THE PAINT SHALL BE FIRE RETARDANT PAINT ON BOTH SIDES AND THE RATING STAMP ON THE PLYWOOD SHALL BE EXPOSED.
7. SPACE RESERVED FOR FLOOR SUPPORTED AIR CONDITIONER UNIT.
8. SPACE RESERVED FOR A PA SYSTEM EXPANSION.
9. FIRESTOP SLEEVES, STI EZPATH OR HILTI SPEED SLEEVES.
10. SPACE RESERVED FOR ACCESS CONTROL PANEL.
11. SPACE RESERVED FOR INTRUSION PANELS.
12. UNDERGROUND CONDUIT STUB-UPS FOR COMMUNICATIONS.

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Notes

Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker 2025.07.23
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

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Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

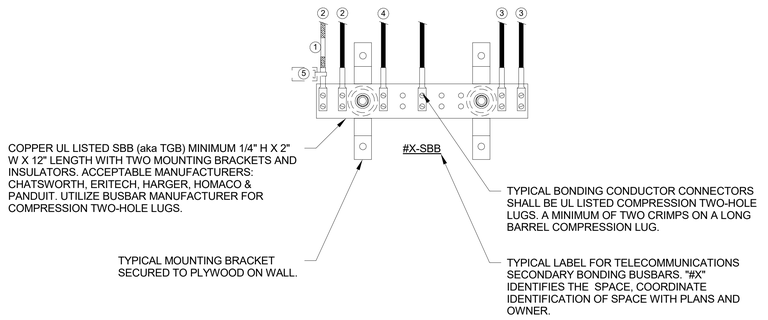
695 INDEPENDECE BLVD, MISSOURI CITY, TX 77489

Title
TECHNOLOGY - ENLARGEMENTS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

T400 - HGES

*Pick location in Project Information>
1/22/2025 3:48:53 PM
ORIGINAL SHEET - ARCH E1

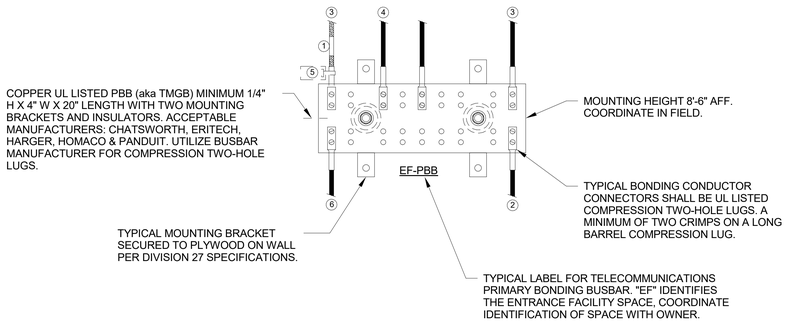


SBB GROUNDING & BONDING NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF TBC AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A TBC TO A COMPRESSION LUGTAP TO DEDICATED HOME RUN BACK TO THE SBB. SEE DETAILS.
3. TYPICAL TBB(S) THAT INTERCONNECTS ALL IDF SBB(S) WITH THE PBB.
4. BONDING CONDUCTOR TO EACH ARMORED FIBER JACKET. IDF SIDE ONLY.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0



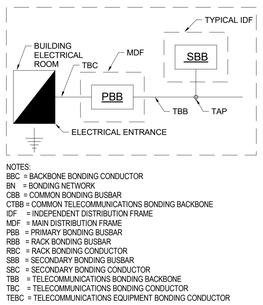
PBB GROUNDING & BONDING RISER NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE UTILIZED EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB) FOR BACKBONE BONDING CONDUCTOR (BBC), IF APPLICABLE.
4. TYPICAL TBB(S) THAT INTERCONNECTS ALL SBB(S) WITH THE PBB.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (TBC) TO BUILDING GROUNDING ELECTRODE. TBC SHALL NOT BE SMALLER THEN THE TBB.

GROUNDING & BONDING GENERAL NOTES

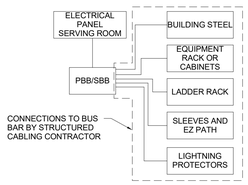
1. ELECTRICAL CONTRACTOR RESPONSIBILITY -PRIMARY BONDING BUSBAR (PBB), SECONDARY BONDING BUSBAR(S) (SBB), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE, BUILDING STRUCTURAL STEEL, AND BONDING OF ALL SBB(S) TO THE PBB SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL GROUNDING OF OF EQUIPMENT, RACKS, CABINETS, AND DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 27 TECHNOLOGY CONTRACTOR.
3. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
4. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED. WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-C.
5. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. STRUCTURED CABLING CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   - A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   - B. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
   - C. EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT .

1 GROUNDING AND BONDING DETAIL
SCALE: NS

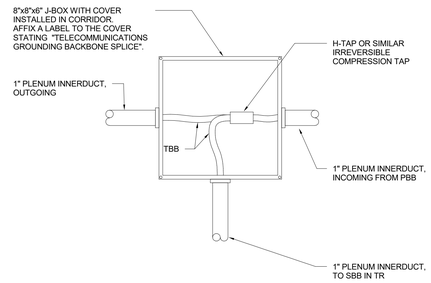


NOTES:
BBC = BACKBONE BONDING CONDUCTOR
BN = BONDING NETWORK
CBB = COMMON BONDING BUSBAR
CTBB = COMMON TELECOMMUNICATIONS BONDING BACKBONE
IDF = INDEPENDENT DISTRIBUTION FRAME
MDF = MAIN DISTRIBUTION FRAME
PBB = PRIMARY BONDING BUSBAR
RBB = RACK BONDING BUSBAR
RBC = RACK BONDING CONDUCTOR
SBB = SECONDARY BONDING BUSBAR
SBC = SECONDARY BONDING CONDUCTOR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
TBC = TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

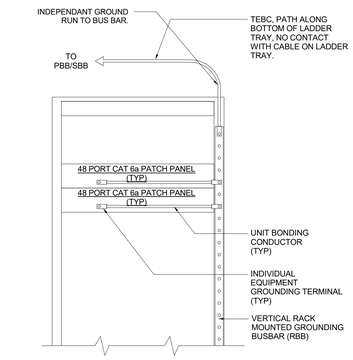
2 TYPICAL GROUNDING FLOW DIAGRAM
SCALE: NS



3 TELECOM ROOM BONDING DIAGRAM
SCALE: NS



4 TELECOM BONDING BACKBONE SPLICE DETAIL
SCALE: NS



5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

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FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TECHNOLOGY - DETAILS

Project No. 214001246
Scale
Revision
Drawing No.

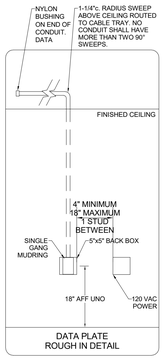
T501 - HGES

*Pick location in Project Information
1/2/2025 5:44:33 PM

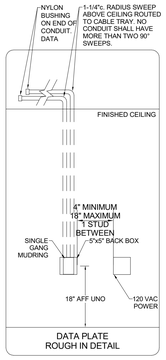
ORIGINAL SHEET - ARCH E1

GENERAL NOTE

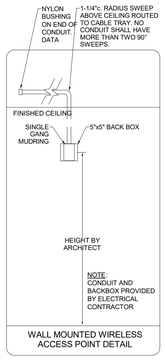
1. FACE PLATE DETAIL FOR OUTLET CONFIGURATION PURPOSES ONLY. CONTRACTOR TO SELECT TYPE OF FACE PLATE TO MATCH CONNECTIVITY HARDWARE, FLOOR BOX AND/OR MODULAR FURNITURE OPENING.



DATA PLATE
ROUGH IN DETAIL

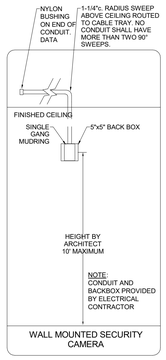


DATA PLATE
ROUGH IN DETAIL

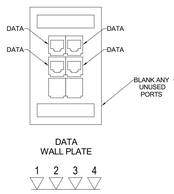


WALL MOUNTED WIRELESS
ACCESS POINT DETAIL

CEILING MOUNTED SECURITY
CAMERA / WIRELESS ACCESS
POINT DETAIL



WALL MOUNTED SECURITY
CAMERA



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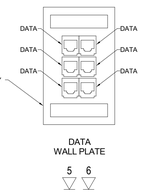
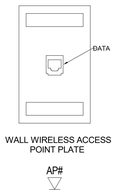
WALL PLATE

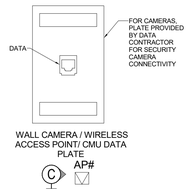


DATA
WALL PLATE



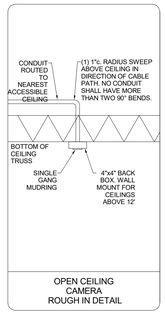
WALL WIRELESS ACCESS
POINT PLATE

CEILING WIRELESS ACCESS
POINT PLATE

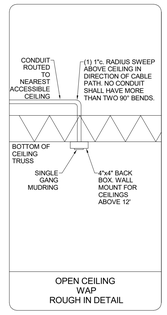


WALL CAMERA / WIRELESS
ACCESS POINT/ CMU DATA
PLATE

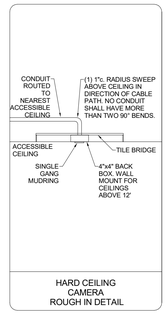
1 DATA ROUGH-IN DETAILS
SCALE: NS



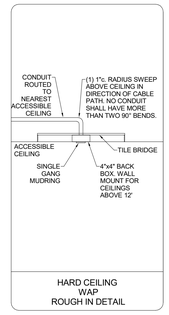
OPEN CEILING
CAMERA
ROUGH IN DETAIL



OPEN CEILING
WAP
ROUGH IN DETAIL

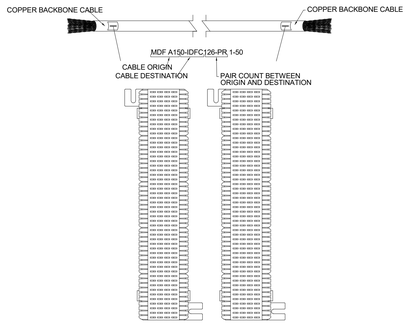


HARD CEILING
CAMERA
ROUGH IN DETAIL



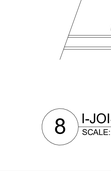
HARD CEILING
WAP
ROUGH IN DETAIL

2 HARD AND OPEN CEILING DETAILS FOR CAMERAS AND DATA OUTLETS
SCALE: NTS



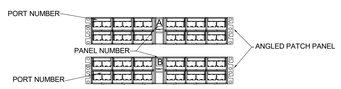
NOTE: 1) PA CONTRACTOR SHALL ENSURE THAT CABLE AND 66 BLOCK SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

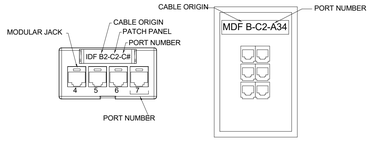
PA SYSTEM COPPER BACKBONE LABELING SCHEME



NOTE: 1) FOR DATA JACKS LOCATED ABOVE CEILING (WAP, CAMERA, ETC.)
2) 3/4" SELF-LAMINATING LABEL, WHITE BACKGROUND, BLACK TEXT
3) TEXT IN PLAIN FONT (NO ITALICS, BOLD OR UNDERLINE) TEXT CENTERED IN LABEL. TEXT HEIGHT NOT TO EXCEED 66% OF LABEL HEIGHT.

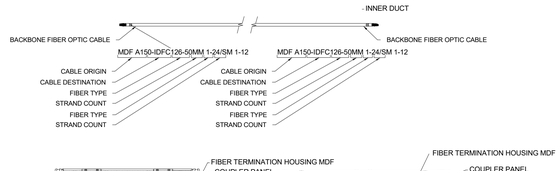
CEILING GRID LABELING SCHEME

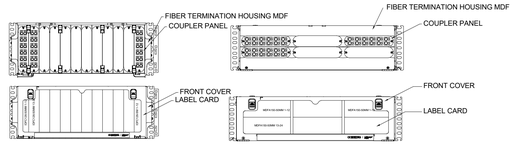




NOTE: 1) CABLE SHALL HAVE IDENTICAL LABEL AT BOTH ENDS
2) EACH PATCH PANEL SHALL BE UNIQUELY LABELED ALPHABETICALLY IN EACH MDF OR IDF
3) EACH PATCH PORT SHALL BE NUMBERED SEQUENTIALLY EX. PATCH PANEL A 1 - 48 , PATCH PANEL B 1 - 48.
4) PRIOR TO LABELING, CONSULT WITH OWNER FOR PROPER IDF NUMBERING. (NO NOT USE ROOM NUMBER.)

HORIZONTAL DATA CABLE LABELING SCHEME

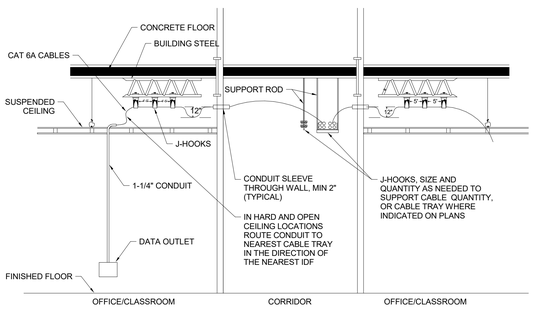




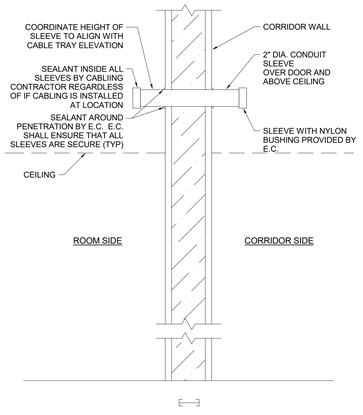
NOTE: 1) CABLE AND INNERDUCT SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

FIBER BACKBONE LABELING SCHEME

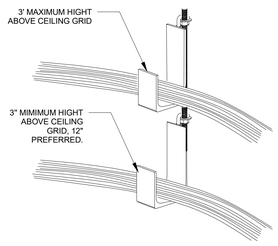
5 LABELING & CABLING SCHEMES
SCALE: NTS



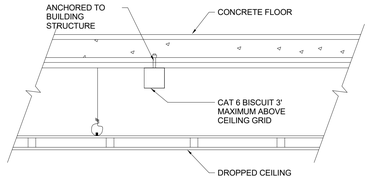
6 CABLE PATHWAY CROSS SECTION
SCALE: NTS



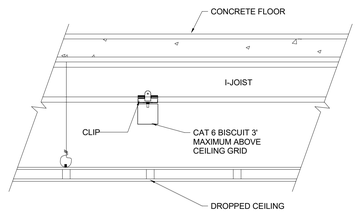
3 TYPICAL CABLING SLEEVE
SCALE: NTS



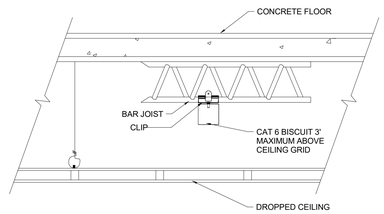
4 PANDUIT J-HOOK DETAIL
SCALE: NTS



7 DROPPED CEILING MOUNTING DETAIL
SCALE: NS



8 I-JOIST MOUNTING DETAIL
SCALE: NS



9 BAR JOIST MOUNTING DETAIL
SCALE: NS

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Notes

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Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDECE BLVD, MISSOURI CITY, TX 77489

Title
TECHNOLOGY - DETAILS

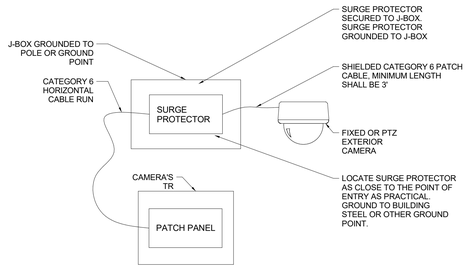
Project No. 214001246
Scale
Revision
Drawing No.

T502 - HGES

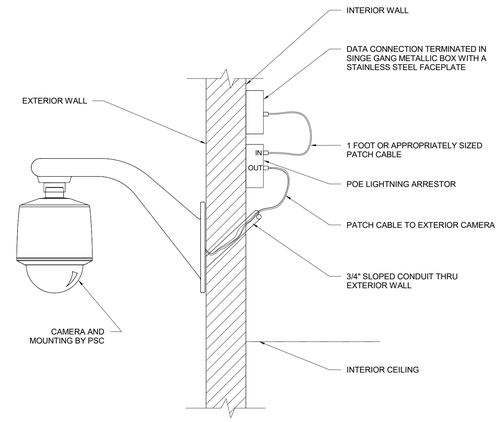
<Pick location in Project Information>
YYYY.MM.DD 5:45:53 PM
ORIGINAL SHEET - ARCH E1

GENERAL NOTES:

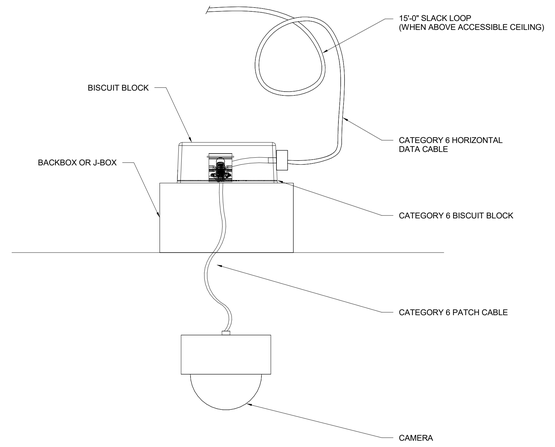
1. REFER TO SECURITY SCHEDULE AND WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX" CAMERAS.



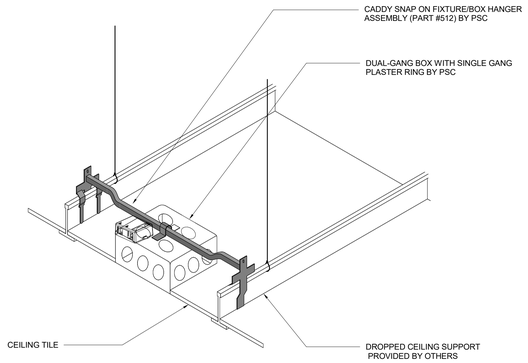
1 CAMERA SIDE SURGE PROTECTOR FOR EXTERIOR CAMERAS
SCALE: NS



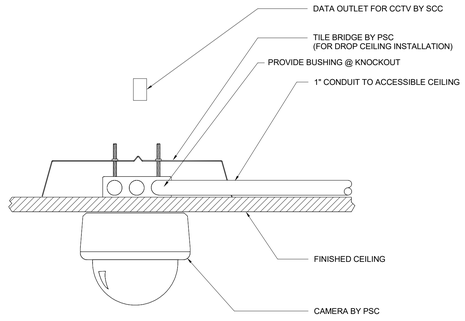
2 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



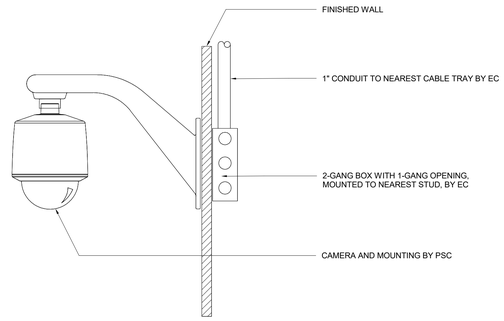
3 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



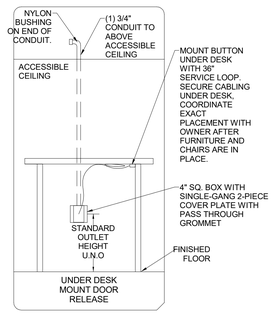
4 TILE BRIDGE DETAIL
SCALE: NS



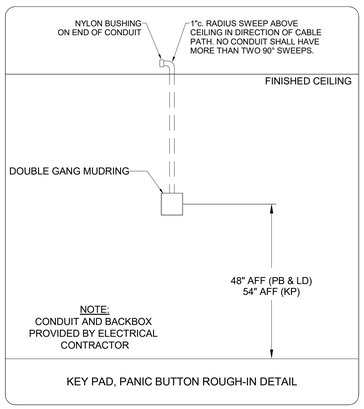
5 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



6 WALL MOUNTED CAMERA DETAIL
SCALE: NS

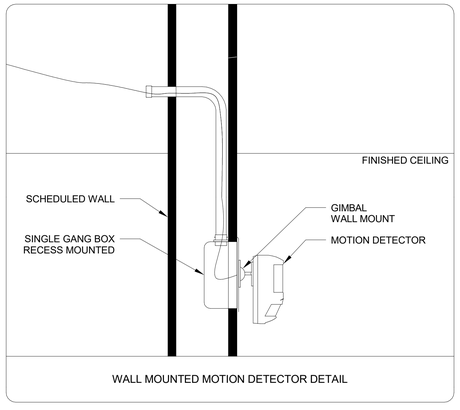


7 UNDER DESK MOUNT DOOR RELEASE BUTTON DETAIL
SCALE: NTS

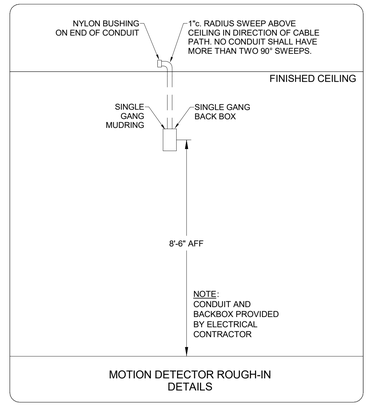


KP PB LD

1 ROUGH-IN DETAILS: KP, PB, LD
SCALE: NTS



2 WALL MOUNTED MD DETAIL
SCALE: NTS



MD

3 IDS WALL-MOUNT MD ROUGH-IN DETAIL
SCALE: NTS

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Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	2025.07.23 YYYY.MM.DD

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BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TECHNOLOGY - SECURITY DETAILS

Project No. 214001246
Scale
Revision
Drawing No.

T600 - HGES

<Plot location in Project Information>
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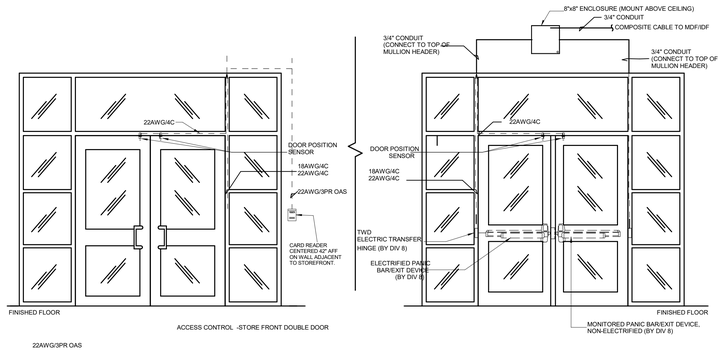
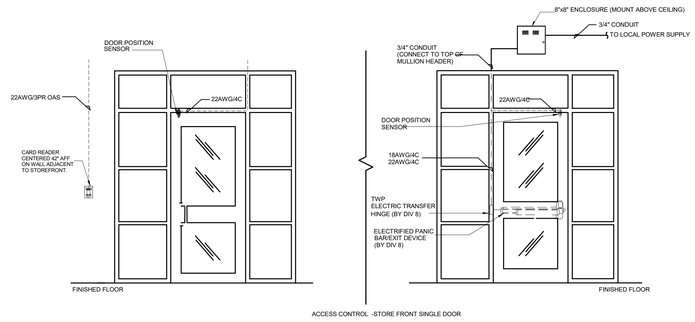
ORIGINAL SHEET - ARCH E1



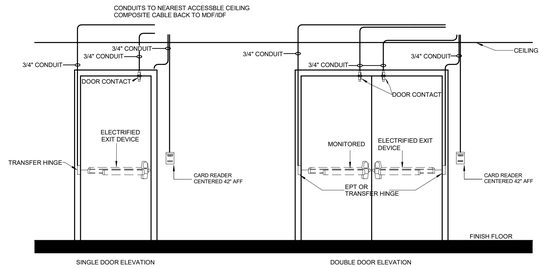
ACCESS CONTROL -STORE FRONT DOUBLE DOOR

1 ACCESS CONTROL - STORE FRONT DOUBLE DOOR
SCALE: NTS

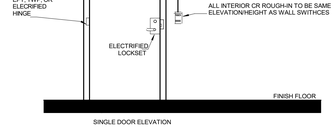


ACCESS CONTROL -STORE FRONT SINGLE DOOR

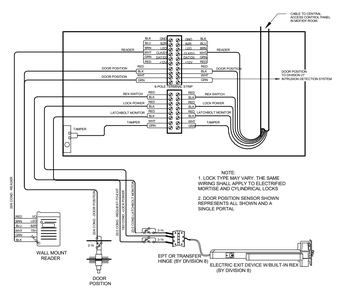
2 ACCESS CONTROL - STORE FRONT SINGLE DOOR
SCALE: NTS



3 ACCESS CONTROL - STEEL/HOLLOW METAL DOOR.
SCALE: NTS



4 ACCESS CONTROL - PLAM / INTERIOR DOOR ELEVATION
SCALE: NTS



5 ACCESS CONTROL - WIRING DETAIL - EXIT DEVICE W/ BUILT-IN REX
SCALE: NTS

SHEET GENERAL NOTES:

1. CONDUIT ROUGH-IN IS A GUIDE FOR WHAT WILL BE REQUIRED FOR EACH DOOR. AS DOOR COMPONENTS CHANGE, EXACT CONDUIT LOCATION WILL ALSO NEED TO BE ADJUSTED.
2. CARD READERS SHOWN WITH AN ANNOTATION "M" NEXT TO THE CARD READER ARE TO BE MULLION MOUNTED AND NO CARD READER ROUGH-IN IS REQUIRED.
3. PROTECT EXISTING-TO-REMAIN ACCESS CONTROL DEVICES AND CABLE THROUGHOUT RENOVATION WORK. IF CABLE AND/OR DEVICES ARE DAMAGED, SECURITY CONTRACTOR TO REPLACE WITH NEW.

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Notes

Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDECE BLVD, MISSOURI CITY, TX 77489

Title
TECHNOLOGY - SECURITY DETAILS

Project No. 214001246
Scale
Revision
Drawing No.

T601 - HGES

ORIGINAL SHEET - ARCH E1
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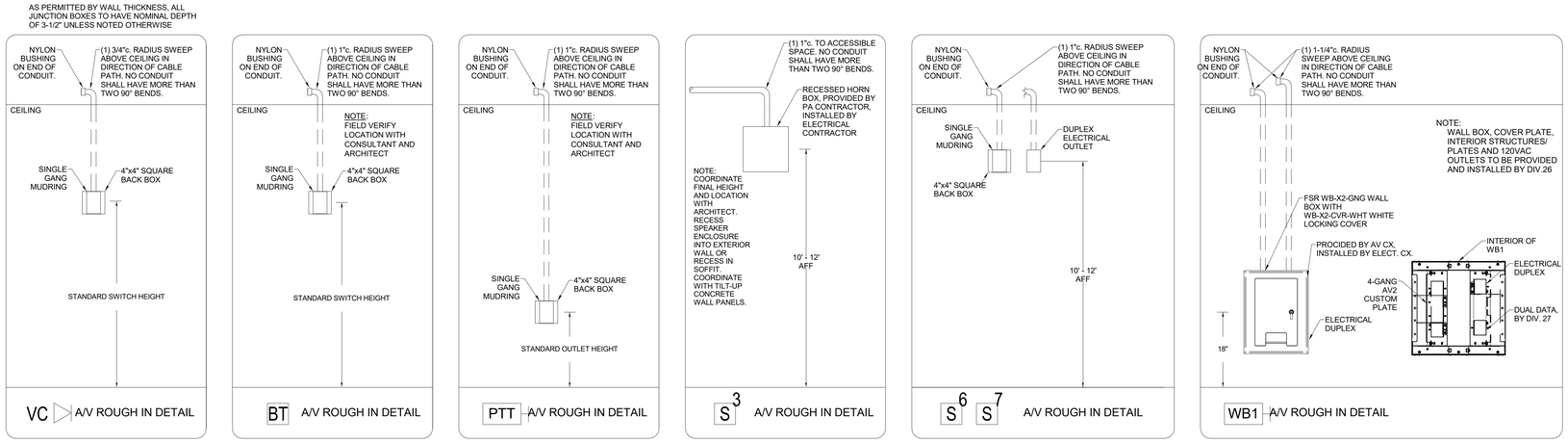
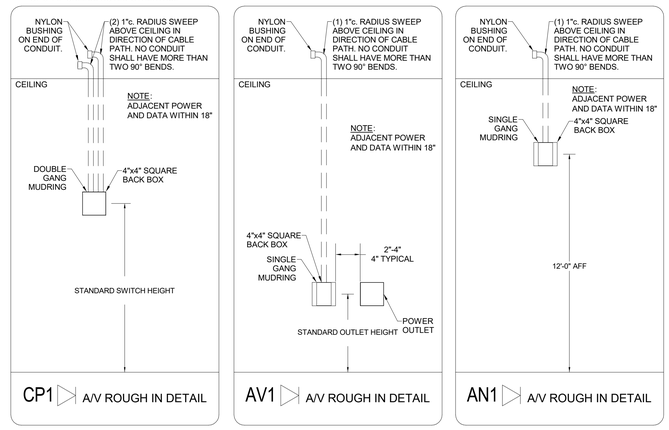
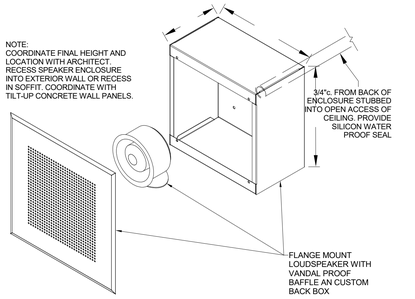


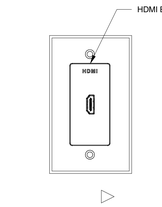
1 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS



2 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
SCALE: NTS



3 OUTSIDE LOUDSPEAKER DETAIL
SCALE: NTS



4 AV1 DETAIL
SCALE: NTS

CAMERA TYPE	MANUFACTURER	MODEL NUMBER	GENERAL DESCRIPTION
C1	PANASONIC (i-PRO)	WV-S2252L* (WV-S22500-V3L)	5MP INTERIOR VANDAL DOME - CORR., COMMON, SPED
C2	PANASONIC (i-PRO)	WV-S2552L* (WV-S25500-V3LN)	5MP EXTERIOR VANDAL DOME
C3	PANASONIC (i-PRO)	WV-S4151* (WV-S4156A)	5MP 360 (FISHEYE) - STAIRWELLS
C4	PANASONIC (i-PRO)	WV-S8531N* (WV-S8544L)	4x2MP EXTERIOR MULTI - BUILDING PERIMETER
C5	PANASONIC (i-PRO)	WV-X8571N* (WV-S8574L)	4x4K (33MP) EXTERIOR MULTI - PARKING LOTS, STADIUM

NOTE: * DENOTES CAMERA MODEL FROM OWNER STANDARDS/TECHNOLOGY GUIDELINES. THESE MODELS HAVE BEEN DISCONTINUED BY THE MANUFACTURER. DIRECT REPLACEMENT MODELS ARE IN ( ) FOLLOWING THE OLDER MODEL CAMERA.

5 CAMERA SCHEDULE
SCALE: 12" = 1'-0"

	PRODUCT			CONNECTED TO		DIVISION	
Number	Manufacturer	Model	Description	Paging	Program/Local	Provided By	Comments
S1	Lowell	LT2-810-72-BB	2x2 Lay-in tile Speaker	X		27 51 00	Provide 2x2 Grille with speaker (If specified in hard ceiling, replace S1 with S2).
S2	Lowell	810-72	8in Ceiling Speaker	X		27 51 00	Provide Grille and Back Box in Hard Ceiling Areas (If specified in lay-in ceiling, replace S2 with S1).
S3	Lowell	VRG-LUH15TX	Vandal and Weather Resistant 15W Horn	X		27 51 00	Provide with Back Box (Lowell CB84-SGVPO)
S4	Lowell	DSL-805-72	8" Surface Mount Speakers	X		27 51 00	
S5	Octasound	SP840A	Omnidirectional hanging speaker	X	X	27 41 00	Provide RDL ST-VP2 ducking module for integration w/ PA

6 SPEAKER SCHEDULE
SCALE: 12" = 1'-0"

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100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	2025.07.23 YYYY.MM.DD

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Client/Project
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HUNTERS GLEN ELEMENTARY SCHOOL

695 INDEPENDENCE BLVD, MISSOURI CITY, TX 77489

Title
TECHNOLOGY - AV DETAILS

Project No. 214001246
Scale 12" = 1'-0"
Revision
Drawing No.
T700 - HGES

ORIGINAL SHEET - ARCH E1
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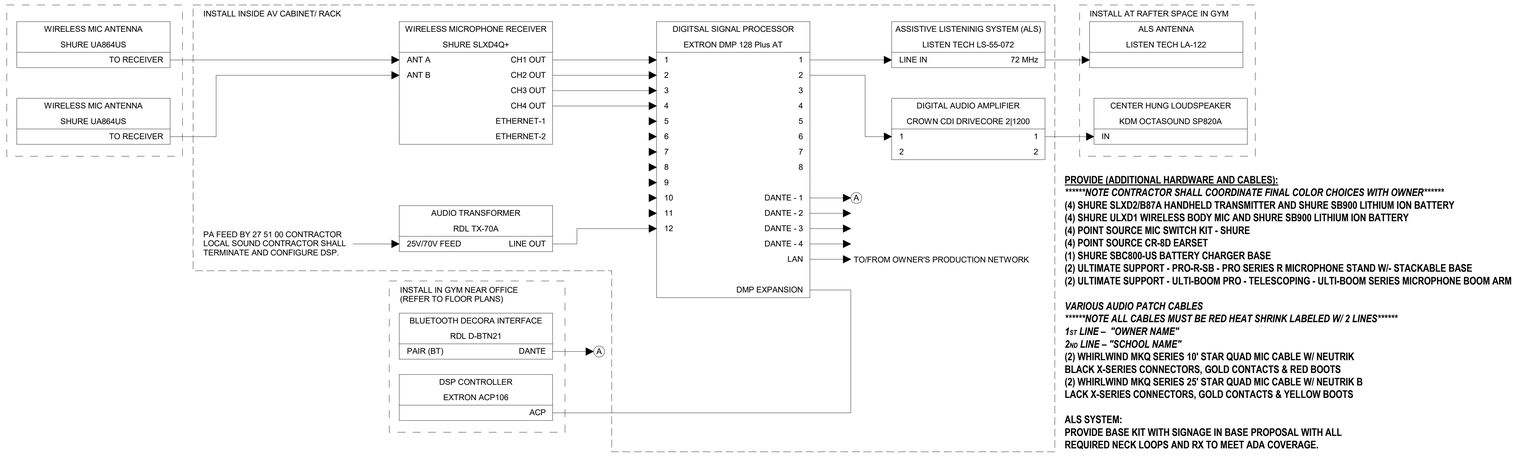
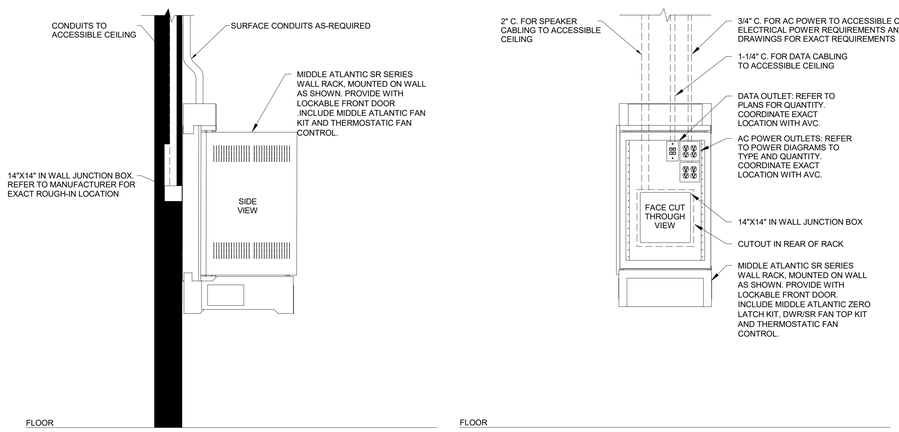


PROVIDE (ADDITIONAL HARDWARE AND CABLES):
*********NOTE CONTRACTOR SHALL COORDINATE FINAL COLOR CHOICES WITH OWNER*********
(4) SHURE SLXD2/B87A HANDHELD TRANSMITTER AND SHURE SB900 LITHIUM ION BATTERY
(4) SHURE ULXD1 WIRELESS BODY MIC AND SHURE SB900 LITHIUM ION BATTERY
(4) POINT SOURCE MIC SWITCH KIT - SHURE
(4) POINT SOURCE CR-8D EARSET
(1) SHURE SBC800-US BATTERY CHARGER BASE
(2) ULTIMATE SUPPORT - PRO-R-SB - PRO SERIES R MICROPHONE STAND W/- STACKABLE BASE
(2) ULTIMATE SUPPORT - ULTI-BOOM PRO - TELESCOPING - ULTI-BOOM SERIES MICROPHONE BOOM ARM

VARIOUS AUDIO PATCH CABLES
*********NOTE ALL CABLES MUST BE RED HEAT SHRINK LABELED W/ 2 LINES*********
1ST LINE – "OWNER NAME"
2ND LINE – "SCHOOL NAME"
(2) WHIRLWIND MKQ SERIES 10' STAR QUAD MIC CABLE W/ NEUTRIK BLACK X-SERIES CONNECTORS, GOLD CONTACTS & RED BOOTS
(2) WHIRLWIND MKQ SERIES 25' STAR QUAD MIC CABLE W/ NEUTRIK B LACK X-SERIES CONNECTORS, GOLD CONTACTS & YELLOW BOOTS

ALS SYSTEM:
PROVIDE BASE KIT WITH SIGNAGE IN BASE PROPOSAL WITH ALL REQUIRED NECK LOOPS AND RX TO MEET ADA COVERAGE.

1 ELEMENTARY GYM AV SYSTEM SCHEMATIC
SCALE: NTS

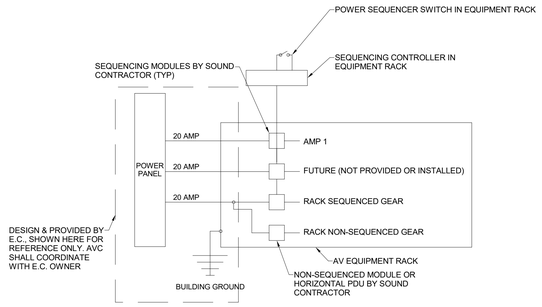


2 MIDDLE ATLANTIC SR SERIES SOUND RACK ROUGH-IN DETAIL
SCALE: NTS

RACK HEADER	
BLANK	ASSISTIVE LISTENING SYSTEM LISTEN TECH
BLANK MIDDLE ATLANTIC VTF1	
POWER SEQUENCER FURMAN CN-2400S W/ (2) CN-20MP	
BLANK MIDDLE ATLANTIC VTF1	
WIRELESS MIC RECEIVER SHURE SLXD4Q+	
BLANK MIDDLE ATLANTIC VTF1	
DIGITAL SIGNAL PROCESSOR (DSP) EXTRON DMP128 AT PLUS	
BLANK MIDDLE ATLANTIC VTF1	
AUDIO POWER AMPLIFIER CROWN CDI DRIVECORE 2|1200	
RACK STORAGE DRAWER MIDDLE ATLANTIC D2LK	

RACK SHALL BE MIDDLE ATLANTIC DWR SERIES WITH LOCKABLE FRONT DOOR. INCLUDE FAN KIT FK-22 AND THERMOSTATIC FAN CONTROL FC-4-1CA.

3 ES GYM AUDIO RACK ELEVATION
SCALE: NTS



4 ELECTRICAL POWER REQUIREMENTS FOR ES GYM AV RACK
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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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HUNTERS GLEN ELEMENTARY SCHOOL

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Title
TECHNOLOGY - AV DETAILS

Project No. 214001246
Scale
Revision
Drawing No.
T701

<Pick location in Project Information>
7/22/2025 5:46:57 PM
ORIGINAL SHEET - ARCH E1

Stantec

2023 BOND

FORT BEND INDEPENDENT SCHOOL DISTRICT

PROJECT TEAM:

OWNER
FORT BEND INDEPENDENT SCHOOL DISTRICT
13600 MURPHY ROAD
STAFFORD, TX 77477
TEL: (281) 634-5560

ARCHITECT
STANTEC
910 LOUISIANA STREET SUITE 2600
HOUSTON, TX 77002
TEL: (713) 548-5700

GENERAL CONTRACTOR
TBD
STREET
CITY, TX ZIP
TEL: (###) ### ####

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DALLY + ASSOCIATES
9800 RICHMOND AVENUE, SUITE 460,
HOUSTON, TEXAS 77042
TEL: (713) 337-8881

STRUCTURAL ENGINEER
DALLY + ASSOCIATES
9800 RICHMOND AVENUE, SUITE 460,
HOUSTON, TEXAS 77042
TEL: (713) 337-8881

MEP ENGINEER
SALAS O'BRIEN
10930 W. SAM HOUSTON PKWY NORTH, SUITE 900
HOUSTON, TEXAS 77064
TEL: (XXX) XXXXXX

LANDSCAPE ARCHITECT
PEA GROUP
TEL: (844) 813-2949

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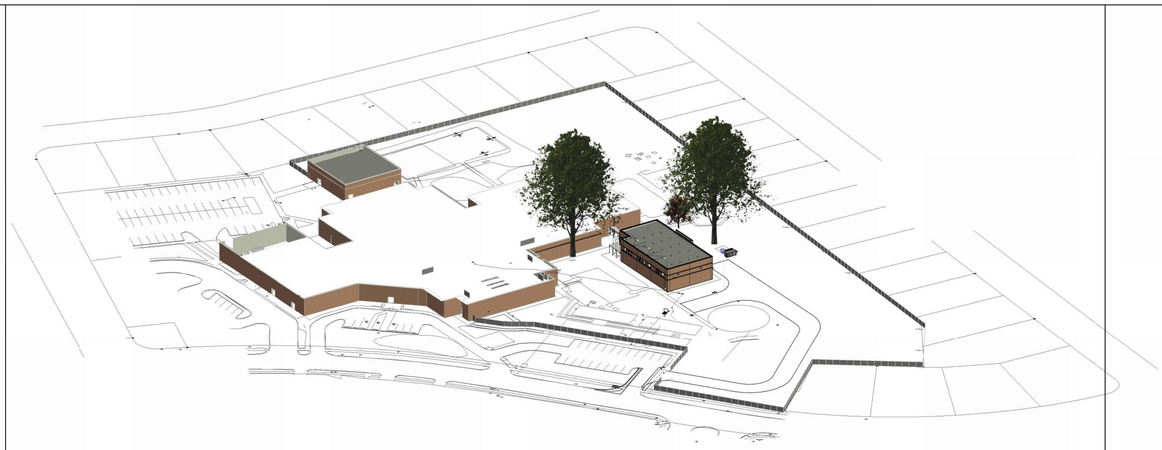

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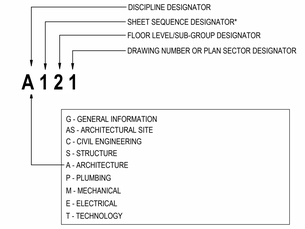

*SHEET SEQUENCE DESIGNATOR - ARCHITECTURE KEY

0 - GENERAL ARCHITECTURAL INFORMATION
ASD - ARCHITECTURAL SITE DEMOLITION
AS - ARCHITECTURAL SITE
AD - ARCHITECTURAL DEMOLITION
1 - FLOOR PLAN / ROOF PLAN
2 - ELEVATIONS
3 - EXTERIOR SECTIONS AND DETAILS, INCLUDING ROOF DETAILS; PLAN DETAILS
4 - STAIR, ELEVATOR, TOILET ROOM, AND OTHER ENLARGED PLANS
5 - SCHEDULES
6 - REFLECTED CEILING PLANS
7 - INTERIOR FIT OUT (FINISHES, MILLWORK, AND CASEWORK)
8 - INTERIOR ELEVATIONS AND DETAILS

LOCATION MAP:

VICINITY MAP:

NOTE: RENDERINGS ON THIS PAGE FOR ILLUSTRATIVE PURPOSES ONLY. REFERENCE DETAILED AND DIMENSIONED DRAWINGS FOR THE CONTRACT INTENT.

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

100% ISSUE FOR BID AND PERMIT
09.24.2025

Stantec Project Number: 214001246
Client Project Number: ####

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DRAWING LIST

NO.	DRAWING NAME
GENERAL	
G001 - PES	PROJECT COVER SHEET & INDEX
G100 - PES	COMPOSITE CODE REVIEW & LIFE SAFETY PLAN
G101 - PES	ELP LIFE SAFETY & CODE REVIEW PLAN
G102 - PES	GYMNASIUM LIFE SAFETY & CODE REVIEW PLAN
ARCHITECTURAL SITE DEMOLITION	
ASD100 - PES	ARCHITECTURAL SITE DEMOLITION PLAN
ARCHITECTURAL SITE	
AS001 - PES	WALKWAY COVER DETAILS
AS100 - PES	ARCHITECTURAL SITE PLAN
AS100 - PES - A	ARCHITECTURAL SITE PLAN_ALTERNATE
AS101 - PES	ENLARGED HARDTOP SITE PLAN
AS102 - PES	ARCHITECTURAL SITE DETAILS
CIVIL	
C001 - PES	GENERAL NOTES
C100 - PES	DEMOLITION PLAN
C200 - PES	LAYOUT AND PAVING PLAN
C300 - PES	GRADING PLAN
C400 - PES	UTILITY PLAN
C500 - PES	SWPPP
C600 - PES	DETAILS
C700 - PES	DETAILS
C800 - PES	FIRE LANE PLAN
LANDSCAPE	
L100 - PES	DEMOLITION PLAN
L200 - PES	PLAYGROUND PLAN
L300 - PES	PLAYGROUND ENLARGEMENT
L400 - PES	LANDSCAPE PLAN AND DETAILS
L500 - PES	IRRIGATION PLAN
L600 - PES	IRRIGATION DETAILS
STRUCTURAL	
S001 - PES	3D VIEW AND SHEET LIST
S101 - PES	GENERAL STRUCTURAL CRITERIA
S102 - PES	GENERAL STRUCTURAL CRITERIA
S201 - PES	FOUNDATION PLAN - COMPOSITE
S201A - PES	FOUNDATION PLAN - GYMNASIUM
S202 - PES	ROOF FRAMING PLAN - COMPOSITE
S202A - PES	ROOF FRAMING PLAN - GYMNASIUM
S301 - PES	FOUNDATION SCHEDULE & TYPICAL SLAB ON GRADE DETAILS
S401 - PES	TYPICAL GB AND CF DETAILS
S402 - PES	SOG @ STRUCTURAL STEEL (GB / FOOTING)
S501 - PES	TYPICAL CMU WALL DETAILS
S601 - PES	TYPICAL STEEL & CMU WALL ROOF DETAILS
ARCHITECTURAL DEMOLITION	
AD100 - PES	ARCHITECTURAL DEMOLITION PLAN
AD601 - PES	DEMOLITION REFLECTED CEILING PLAN
ARCHITECTURAL	
A001 - PES	ABBV., MATERIAL LEGEND AND SYMBOLS
A002 - PES	TYPICAL MOUNTING HEIGHTS AND TOILET LAYOUT
A003 - PES	WALL SPANS INTERIOR AND WALL TO DECK DETAILS - CMU
A004 - PES	WALL TO DECK DETAILS - CMU
A005 - PES	WALL SPANS EXTERIOR
A006 - PES	WALL SPANS INTERIOR AND WALL TO DECK DETAILS - CFMF
A007 - PES	TYPICAL INTERIOR PARTITION HEAD DETAILS/TYPICAL PLAN DETAILS
A100 - PES	COMPOSITE FLOOR PLAN - EXISTING AND NEW
A101 - PES	FLOOR PLAN - ELP
A103 - PES	FLOOR PLAN - GYMNASIUM
A113 - PES	GYMNASIUM CLERESTORY PLAN

DRAWING LIST

NO.	DRAWING NAME
A133 - PES	ROOF PLAN
A201 - PES	EXTERIOR ELEVATIONS - GYMNASIUM
A202 - PES	BUILDING SECTIONS
A300 - PES	EXTERIOR WALL & ROOFING TYPES
A301 - PES	EXTERIOR WALL SECTIONS
A302 - PES	EXTERIOR WALL SECTIONS
A321 - PES	EXTERIOR WALL SECTIONS DETAILS
A401 - PES	ENLARGED RESTROOM DETAILS
A501 - PES	DOOR SCHEDULE, INFO, AND FRAME TYPES
A502 - PES	INTERIOR HEAD, JAMB, SILL DETAILS
A601 - PES	REFLECTED CEILING PLAN - GYMNASIUM
A602 - PES	REFLECTED CEILING PLAN - ELP
A603 - PES	CEILING DETAILS
A801 - PES	INTERIOR MATERIAL SCHEDULE
A821 - PES	INTERIOR ELEVATIONS - GYMNASIUM
A900 - PES	FINISH FLOOR PLAN
A901 - PES	ENLARGED GYM FINISH PLAN
MECHANICAL	
M201 - PES	MECHANICAL FLOOR PLANS
M301 - PES	MECHANICAL SCHEDULES
ELECTRICAL	
E001 - PES	ELECTRICAL DEMOLITION FLOOR PLANS
E100 - PES	ELECTRICAL COMPOSITE PLAN
E201 - PES	ELECTRICAL FLOOR PLANS
E301 - PES	ELECTRICAL FLOOR PLANS - ALTERNATE
E401 - PES	ELECTRICAL ONE-LINE AND PANEL SCHEDULES
E501 - PES	ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES
PLUMBING	
P100 - PES	PLUMBING COMPOSITE PLAN
P201 - PES	PLUMBING UNDERFLOOR ENLARGED PLANS - NEW GYM
P301 - PES	PLUMBING ENLARGED PLAN - LEVEL 1 - NEW GYM
P302 - PES	PLUMBING ENLARGED PLAN - LEVEL 1 - EXTENDED DAY LEARNING
P401 - PES	PLUMBING ROOF PLAN
P501 - PES	PLUMBING DETAILS
P601 - PES	PLUMBING LEGEND AND SCHEDULES
TECHNOLOGY	
T000 - PES	TECHNOLOGY - INDEX SHEET
T010 - PES	TECHNOLOGY - SITE PLAN
T101 - PES	TECHNOLOGY - GYM
T400 - PES	TECHNOLOGY - ENLARGEMENTS
T501 - PES	TECHNOLOGY - DETAILS
T502 - PES	TECHNOLOGY - DETAILS
T600 - PES	TECHNOLOGY - SECURITY DETAILS
T601 - PES	TECHNOLOGY - SECURITY DETAILS
T700 - PES	TECHNOLOGY - AV DETAILS
T701 - PES	TECHNOLOGY - AV DETAILS

SCOPE OF WORK LEGEND

EXISTING (NO WORK IN THIS AREA)

EXISTING - AREA OF RENOVATION. CARPET REPLACEMENT WHERE NOTED (REFER TO A900), AND NEW PAINT IN CORRIDORS

NEW WORK - GROUND UP ADDITION*

* SEE ADDITIONAL SCOPE OF WORK AS SHOWN IN MEP-FP-T DRAWINGS.

** SEE CIVIL FOR ADDITIONAL SCOPE OF WORK FOR SITE DRAINAGE, SANITARY

WALL TO DECK RATING LEGEND

- 1-HR FIRE BARRIER WALL TO DECK (45 MIN DRS)
  UL No U465 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
- 2-HR FIRE BARRIER WALL TO DECK (1.5 HR DRS)
  UL No U411 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
  UL No U905 AT CMU CONSTR
- 3-HR FIRE BARRIER WALL TO DECK (2 HR DRS)
  UL No U419 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
  UL No U910 AT CMU CONSTR
- NON-RATED WALL TO DECK
  (REF DTL –//–.–) (NON-RATED OPENINGS)

NOTES:

1. ALL WALLS ARE NON-RATED WALLS TO BOTTOM OF DECK (UON).
2. ALL NON-LOADBEARING CMU WALLS SPAN VERTICALLY (UON).
3. ALL COLUMN ENCLOSURES SHALL BE THE SAME HEIGHT AS THE ADJACENT WALL (UON).
4. BRACE ALL WALLS TO STRUC ABOVE AS NOTED IN WALL BRACING NOTES AND WALL TERMINATION DETAILS ON SHEET A003.
5. REFER TO PARTITION TYPES, SHEET A009 & WALL CONSTRUCTION AND RATED ASSEMBLY UL NOS., SHEET A001, TYP.
6. FIRE RATING OF ANY "EXTERIOR" LOAD BEARING WALLS SHALL CONTINUE FOR A MIN OF 30" BELOW ROOF LINES AT STEPPED BUILDING LOCATIONS, SUCH SAME WALL BELOW SUCH POINT IS AN "INTERIOR" LOAD BEARING WALL AND FIRE RATED ACCORDING TO "INTERIOR" LOAD BEARING WALLS.
7. MARKING OF FIRE RATED & SMOKE STOP PARTITIONS: PERMANENTLY MARK ALL SMOKE BARRIERS, FIRE PARTITIONS, SHAFT ENCLOSURES, FIRE BARRIERS ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER-PROTECT ALL OPENINGS". LETTERS SHALL BE MINIMUM 3" IN HEIGHT, 3/8" IN STROKE, AND PAINTED RED, IF RED IS A CONTRASTING COLOR TO THE GYPSUM BOARD, OTHERWISE USE A CONTRASTING COLOR PAINT. PROVIDE ONE TIME PER STRUCUTRAL BAY, BUT AT INTERVALS NOT MORE THAN 30' ON CENTER, OR FOR WALLS WHICH DO NOT EXTEND FOR A FULL BAY, AT LEAST ONCE. AT ENDS OF WALLS, PROVIDE MARKINGS WITHIN 15' OF THE END OF EACH WALL.

FIRE ASSEMBLY LEGEND

- FLOOR/CEILING
  UL ASSEMBLY No D902: 2-HR;
  STRUCTURAL FRAME RATED 2-HR
- EXPOSED CEILING - CEMENTITIOUS FIRE PROOFING:
  UL ASSEMBLY No P819: 1-HR
- STRUCTURE EXCEEDS 20 FT -
  FIREPROOFING NOT REQUIRED
- ROOF/CEILING
  UL ASSEMBLY No P819: 1-HR;
  STRUCTURAL FRAME RATED 2-HR
- INTUMESCENT PAINT ON ALL EXPOSED STRUCTURAL MEMBERS
  UL ASSEMBLY No X662, X661:
  1-HR AT ROOF/CEILING AND
  2-HR AT FLOOR/CEILING

NOTES:

1. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC PENETRATIONS THROUGH RATED WALLS, FLOOR OR ROOF WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO UL GUIDELINES FOR APPROPRIATE ASSEMBLIES.
2. PROVIDE DAMPERS AND LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.
3. PROVIDE SPRAY-ON FIRE PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM AN AREA DESIGNATED TO BE A FIRE RATED FLOOR/CEILING AND OR FIRE RATED ROOF/CEILING ASSEMBLY INTO AREAS WITH ANY OTHER FIRE ASSEMBLY OR NO FIRE ASSEMBLY FOR THEIR FULL LENGTH, TYP.
4. UL ASSEMBLIES INDICATED ESTABLISH A PERFORMANCE BASIS. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
5. ALL STEEL COLUMNS - SPRAY ON FIREPROOFING, UL ASSEMBLY X795, U.O.N (REF SHEET A021)

PROJECT GENERAL INFORMATION:

PROJECT	PALMER ELEMENTARY SCHOOL ADDITION AND RENOVATIONS	
LOCATION	4208 CROW VALLEY DR, MISSOURI CITY, TX 77459	
BUILDING HEIGHT	ONE STORY	
FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING:	68,312 SF
	EXISTING EXTENDED LEARNING PROGRAM (ELP) AND GYMNASIUM BUILDING:	4,985 SF
	TOTAL EXISTING FLOOR AREA SUMMARY:	**73,297 SF**
	DETACHED NEW GYMNASIUM:	5,803 SF
	NEW FLOOR AREA SUMMARY:	**5,803 SF**
RENOVATION AREA SUMMARY	AREA OF RENOVATION (CLASSROOM BUILDING):	55,800 SF
	AREA OF RENOVATION EXISTING ELP & GYM :	3,483 SF

OVERALL SCOPE OF WORK SUMMARY:

MINOR RENOVATIONS ON EXISTING CLASSROOM BUILDING, MINOR RENOVATIONS ON EXISTING DETACHED EXTENDED LEARNING PROGRAM(ELP) AND GYMNASIUM BUILDING . CONSTRUCTION OF A DETACHED NEW GYMNASIUM BUILDING

1. SCOPE OF WORK SUMMARY (EXISTING CLASSROOM BUILDING):

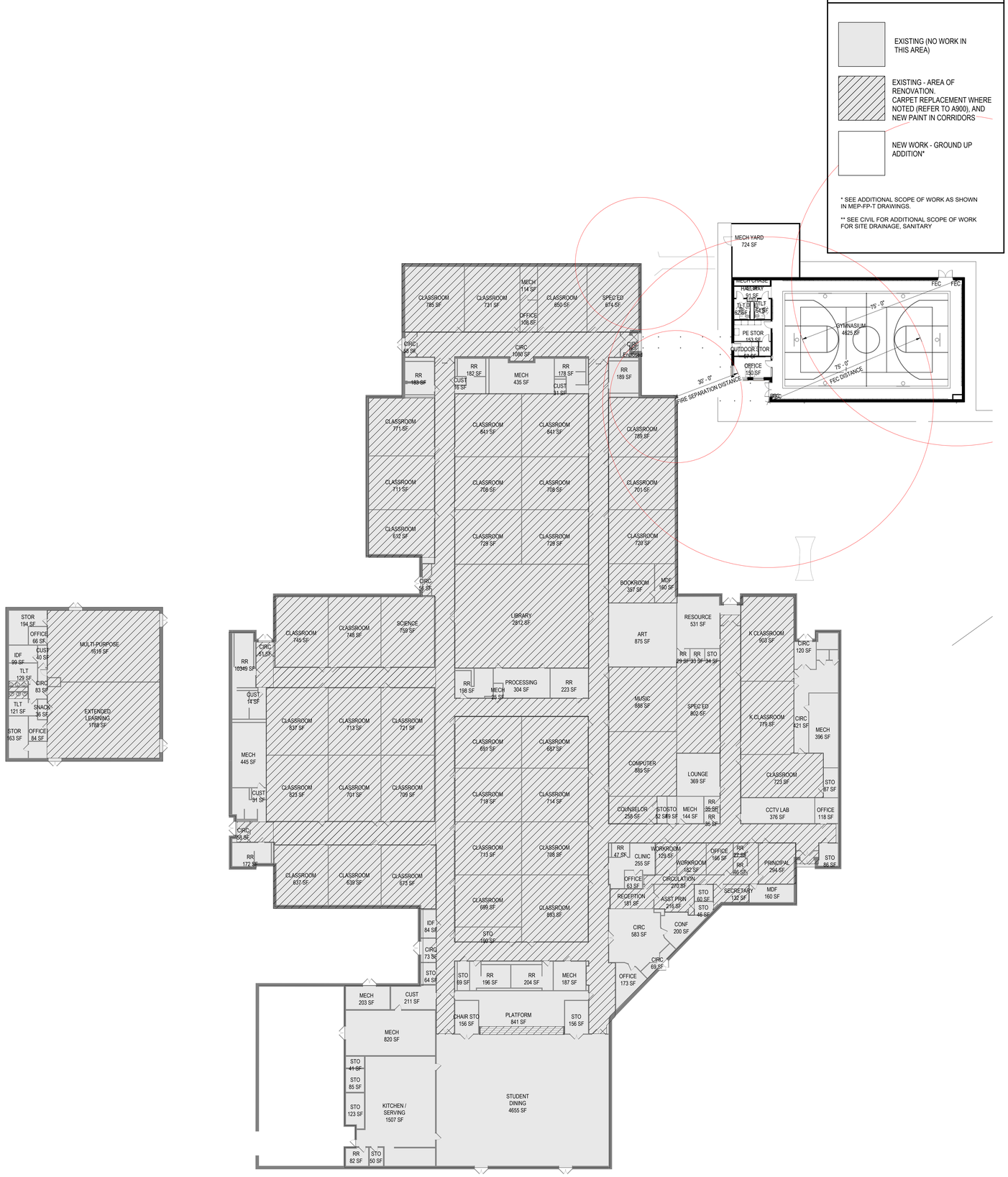
INTERIOR - REPLACE EXISTING CARPETING AND BASE IN CLASSROOMS. RE-PAINT EXISTING CORRIDORS. RE-STAIN EXISTING STAGE STEPS IN CAFETETRIA

EXTERIOR - REPLACE FABRIC AND RE-PAINT STRUCTURE OVER HARDTOP. RE-STRIPE HARDTOP SURFACE. REPLACE LOWER LEVEL PLAYGROUND. PROVIDE CANOPY OVER PLAYGROUND.

IRRIGATION AROUND BUILDING PERIMETER
RE-GRADING AREA AROUND PLAYGROUNDS
INSTALLING MISCELLANEOUS SIDEALK DRAINS

CODE REVIEW-CLASSROOM BUILDING: IEBC 2021

EXISTING CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	**LEVEL 1 ALTERATIONS(602.1):** • REPLACE EXISTING CARPETING AND BASE AT CLASSROOMS W/ NEW CARPETING & BASE • RE-PAINT CORRIDOR WALLS AND EXTERIOR COVERED WALKWAY. • RE-STAIN EXISTING STAGE STEPS • EXISTING SHADE COVER AT HARDTOP - REPLACE FABRIC AND REPAINT STRUCTURE • RESTRIPE HARDTOP PLAY SURFACE. PROVIDE METAL ROOF CANOPY FOR ONE (1) EXISTING PLAYGROUND. REPLACE LOWER-LEVEL PLAYGROUND
FIRE PROTECTION (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.* ONLY A 3,444 SF OF EXISTING CLASSROOM BUILDING IS SPRINKLERED.



A1 / G100 / PES

COMPOSITE FLOOR PLAN - CODE REVIEW

1" = 20'-0"

Stantec

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT · DANIELLE DUNN · 38298 · STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
COMPOSITE CODE REVIEW & LIFE SAFETY PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

G100 - PES

•Pick location in Project Information•
7/25/2025 4:55:53 AM
ORIGINAL SHEET - ARCH E1

SCOPE OF WORK LEGEND

EXISTING (NO WORK IN THIS AREA)

EXISTING - AREA OF RENOVATION. CARPET REPLACEMENT WHERE NOTED (REFER TO A900), AND NEW PAINT IN CORRIDORS

NEW WORK - GROUND UP ADDITION*

* SEE ADDITIONAL SCOPE OF WORK AS SHOWN IN MEP-FP-T DRAWINGS.

** SEE CIVIL FOR ADDITIONAL SCOPE OF WORK FOR SITE DRAINAGE, SANITARY

PROJECT GENERAL INFORMATION:

PROJECT	PALMER ELEMENTARY SCHOOL ADDITION AND RENOVATIONS
LOCATION	4208 CROW VALLEY DR, MISSOURI CITY, TX 77459
BUILDING HEIGHT	ONE STORY
FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING: 68,312 SF EXISTING EXTENDED LEARNING PROGRAM (ELP) AND GYMNASIUM BUILDING: 4,985 SF **TOTAL EXISTING FLOOR AREA SUMMARY: 73,297 SF** DETACHED NEW GYMNASIUM: 5,803 SF **NEW FLOOR AREA SUMMARY: 5,803 SF**
RENOVATION AREA SUMMARY	AREA OF RENOVATION (CLASSROOM BUILDING): 55,800 SF AREA OF RENOVATION EXISTING ELP & GYM : 3,483 SF

OVERALL SCOPE OF WORK SUMMARY:

MINOR RENOVATIONS ON EXISTING CLASSROOM BUILDING ,MINOR RENOVATIONS ON EXISTING DETACHED EXTENDED LEARNING PROGRAM(ELP) AND GYMNASIUM BUILDING . CONSTRUCTION OF A DETACHED NEW GYMNASIUM BUILDING

1. SCOPE OF WORK SUMMARY (EXISTING CLASSROOM BUILDING):

INTERIOR - REPLACE EXISTING CARPETING AND BASE IN CLASSROOMS. RE-PAINT EXISTING CORRIDORS. RE-STAIN EXISTING STAGE STEPS IN CAFETETRIA

EXTERIOR - REPLACE FABRIC AND RE-PAINT STRUCTURE OVER HARDTOP. RE-STRIPE HARDTOP SURFACE. REPLACE LOWER LEVEL PLAYGROUND. PROVIDE CANOPY OVER PLAYGROUND.

IRRIGATION AROUND BUILDING PERIMETER
RE-GRADING AREA AROUND PLAYGROUNDS
INSTALLING MISCELLANEOUS SIDEALK DRAINS

2. SCOPE OF WORK SUMMARY (EXISTING ELP & GYM BUILDING):

INTERIOR - REPLACE LIGHT FIXTURES W/ LED LIGHT FIXTURES
PROVIDE PIPE PROTECTION AT EXISTING SINKS IN BOYS AND GIRLS RESTROOMS. PROVIDE ACT LAY-IN CEILING

3. SCOPE OF WORK SUMMARY (NEW GYMNASIUM BUILDING):
PROVIDE NEW 5,803 SF TYPE II-B NON-SPRINKLERED GYM BUILDING

CODE REVIEW-CLASSROOM BUILDING: IEBC 2021

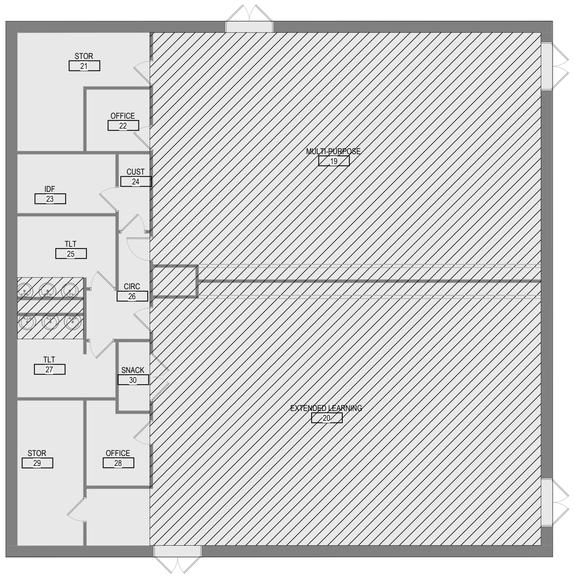
EXISTING CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	**LEVEL 1 ALTERATIONS(602.1):** • REPLACE EXISTING CARPETING AND BASE AT CLASSROOMS W/ NEW CARPETING & BASE • RE-PAINT CORRIDOR WALLS AND EXTERIOR COVERED WALKWAY. • RE-STAIN EXISTING STAGE STEPS • EXISTING SHADE COVER AT HARDTOP - REPLACE FABRIC AND REPAINT STRUCTURE • RESTRIPE HARDTOP PLAY SURFACE. PROVIDE METAL ROOF CANOPY FOR ONE (1) EXISTING PLAYGROUND. REPLACE LOWER-LEVEL PLAYGROUND
FIRE PROTECTION (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.* ONLY A 3,444 SF OF EXISTING CLASSROOM BUILDING IS SPRINKLERED.

CODE REVIEW- ELP & GYMNASIUM BUILDING: IEBC 2021

EXISTING CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	**LEVEL 1 ALTERATIONS(602.1):** • REPLACE EXISTING CARPETING AND BASE AT CLASSROOMS W/ NEW CARPETING & BASE • RE-PAINT CORRIDOR WALLS AND EXTERIOR COVERED WALKWAY. • RE-STAIN EXISTING STAGE STEPS • EXISTING SHADE COVER AT HARDTOP - REPLACE FABRIC AND REPAINT STRUCTURE • RESTRIPE HARDTOP PLAY SURFACE. PROVIDE METAL ROOF CANOPY FOR ONE (1) EXISTING PLAYGROUND. REPLACE LOWER-LEVEL PLAYGROUND
FIRE PROTECTION (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.* ONLY A 3,444 SF OF EXISTING CLASSROOM BUILDING IS SPRINKLERED.

CODE REVIEW- NEW GYMNASIUM BUILDING: IBC 2021

NEW CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	"A-3" ASSEMBLY SERVING EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	NEW 5,803 SF GYMNASIUM FOR EXISTING STUDENT POPULATION
ALLOWABLE AREA AND HEIGHT LIMITATIONS(TAB 504.3, 504.4, 506.2)	9,500 SF /55 FT HIGH/2 STORIES
ACTUAL AREA AND HEIGHT	5,803 SF /26 FT HIGH/1 STORY
FIRE SEPARATION DISTANCE	24' 7 1/2", 10>X>30
FIRE-RESISTANCE RATING REQUIREMENTS (TAB 601)	0
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS, NON-BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0
EXIT ACCESS TRAVEL DISTANCE (TAB.1017)	200'



A1 / G101

ELP LIFE SAFETY PLAN

1/8" = 1'-0"

PES

Stantec

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Houston, TX 77007-49
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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE DUNN
28298
STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

ELP LIFE SAFETY & CODE REVIEW PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

G101 - PES

<Plot Location in Project Information>
12/5/2025 8:04:11 AM

ORIGINAL SHEET - ARCH E1

OCCUPANCY / EGRESS LEGEND:

INTERIOR AND EXTERIOR DOOR EGRESS (IBC SECTION 1005.1)

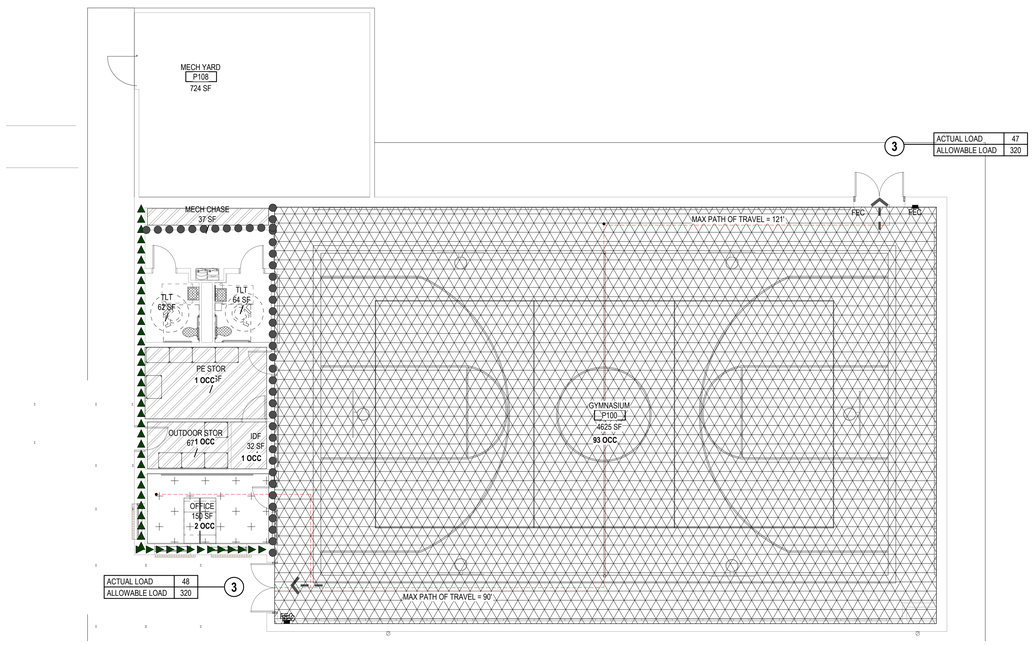
1. 3'-0" DOOR (32" CLR) AT .20"/OCCUPANT = 160 OCCUPANTS
2. 4'-0" DOOR (44" CLR) AT .20"/OCCUPANT = 220 OCCUPANTS
3. PAIR 3'-0" DOOR (64" CLR) AT .20"/OCCUPANT = 320 OCCUPANTS

OCCUPANCY / EGRESS LEGEND:

ROOM NAME
AREA
##
OCCUPANT LOAD

AREA CLASSIFICATION (SEC 302 / TABLE 1004.1.2)

- ACCESORY STORAGE AREAS, MEP ROOM (300 GROSS)
- ASSEMBLY UNCONCENTRATED (15 NET)
- BUSINESS (150 GROSS)
- EXERCISE ROOMS (50 GROSS)



A1 GYMNASIUM - LIFE SAFETY PLAN

G102

1/8" = 1'-0"

PES

PROJECT GENERAL INFORMATION:

PROJECT	PALMER ELEMENTARY SCHOOL ADDITION AND RENOVATIONS	
LOCATION	4208 CROW VALLEY DR, MISSOURI CITY, TX 77459	
BUILDING HEIGHT	ONE STORY	
FLOOR AREA SUMMARY	EXISTING CLASSROOM BUILDING:	68,312 SF
	EXISTING EXTENDED LEARNING PROGRAM (ELP) AND GYMNASIUM BUILDING:	4,985 SF
	TOTAL EXISTING FLOOR AREA SUMMARY:	**73,297 SF**
	DETACHED NEW GYMNASIUM:	5,803 SF
	NEW FLOOR AREA SUMMARY:	**5,803 SF**
RENOVATION AREA SUMMARY	AREA OF RENOVATION (CLASSROOM BUILDING):	55,800 SF
	AREA OF RENOVATION EXISTING ELP & GYM :	3,483 SF

OVERALL SCOPE OF WORK SUMMARY:

MINOR RENOVATIONS ON EXISTING CLASSROOM BUILDING, MINOR RENOVATIONS ON EXISTING DETACHED EXTENDED LEARNING PROGRAM(ELP) AND GYMNASIUM BUILDING , CONSTRUCTION OF A DETACHED NEW GYMNASIUM BUILDING

1. SCOPE OF WORK SUMMARY (EXISTING CLASSROOM BUILDING):

INTERIOR - REPLACE EXISTING CARPETING AND BASE IN CLASSROOMS. RE-PAINT EXISTING CORRIDORS. RE-STAIN EXISTING STAGE STEPS IN CAFETETRIA

EXTERIOR - REPLACE FABRIC. AND RE-PAINT STRUCTURE OVER HARDTOP. RE-STRIPE HARDTOP SURFACE. REPLACE LOWER LEVEL PLAYGROUND. PROVIDE CANOPY OVER PLAYGROUND.

IRRIGATION AROUND BUILDING PERIMETER
RE-GRADING AREA AROUND PLAYGROUNDS
INSTALLING MISCELLANEOUS SIDEALK DRAINS

2. SCOPE OF WORK SUMMARY (EXISTING ELP & GYM BUILDING):

INTERIOR - REPLACE LIGHT FIXTURES W/ LED LIGHT FIXTURES.
PROVIDE PIPE PROTECTION AT EXISTING SINKS IN BOYS AND GIRLS RESTROOMS. PROVIDE ACT LAY-IN CEILING

3. SCOPE OF WORK SUMMARY (NEW GYMNASIUM BUILDING):
PROVIDE NEW 5,803 SF TYPE II-B NON-SPRINKLERED GYM BUILDING

CODE REVIEW-CLASSROOM BUILDING: IEBC 2021

EXISTING CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	**LEVEL 1 ALTERATIONS(602.1):** • REPLACE EXISTING CARPETING AND BASE AT CLASSROOMS W/ NEW CARPETING & BASE • RE-PAINT CORRIDOR WALLS AND EXTERIOR COVERED WALKWAY. • RE-STAIN EXISTING STAGE STEPS • EXISTING SHADE COVER AT HARDTOP - REPLACE FABRIC AND REPAINT STRUCTURE • RESTRIPE HARDTOP PLAY SURFACE. PROVIDE METAL ROOF CANOPY FOR ONE (1) EXISTING PLAYGROUND. REPLACE LOWER-LEVEL PLAYGROUND
FIRE PROTECTION (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.* ONLY A 3,444 SF OF EXISTING CLASSROOM BUILDING IS SPRINKLERED.

CODE REVIEW- ELP & GYMNASIUM BUILDING: IEBC 2021

EXISTING CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	**LEVEL 1 ALTERATIONS(602.1):** • REPLACE EXISTING CARPETING AND BASE AT CLASSROOMS W/ NEW CARPETING & BASE • RE-PAINT CORRIDOR WALLS AND EXTERIOR COVERED WALKWAY. • RE-STAIN EXISTING STAGE STEPS • EXISTING SHADE COVER AT HARDTOP - REPLACE FABRIC AND REPAINT STRUCTURE • RESTRIPE HARDTOP PLAY SURFACE. PROVIDE METAL ROOF CANOPY FOR ONE (1) EXISTING PLAYGROUND. REPLACE LOWER-LEVEL PLAYGROUND
FIRE PROTECTION (703.1)	ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.* ONLY A 3,444 SF OF EXISTING CLASSROOM BUILDING IS SPRINKLERED.

CODE REVIEW- NEW GYMNASIUM BUILDING: IBC 2021

NEW CONSTRUCTION TYPE	II-B,NON-SPRINKLERED
PRIMARY OCCUPANCY (SEC. 305)	"A-3" ASSEMBLY SERVING EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	NEW 5,803 SF GYMNASIUM FOR EXISTING STUDENT POPULATION
ALLOWABLE AREA AND HEIGHT LIMITATIONS(TAB 504.3, 504.4, 506.2)	9,500 SF /55 FT HIGH/2 STORIES
ACTUAL AREA AND HEIGHT	5,803 SF /26 FT HIGH/1 STORY
FIRE SEPARATION DISTANCE	24' 7 1/2", 10>X>30
FIRE-RESISTANCE RATING REQUIREMENTS (TAB 601)	0
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS, NON-BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0
EXIT ACCESS TRAVEL DISTANCE (TAB.1017)	200'

EGRESS REQUIREMENTS: IBC 2021

OCCUPANCT LOADS: (TABLE 1004.5)

FUNCTION OF SPACE:	SQ. FT PER OCCUPANT:
ACCESSORY STORAGE AREAS, MECH. EQUIPMENT ROOMS	300 GROSS
ASSEMBLY W/OUT FIXED SEATS:	
CONCENTRATED (CHAIRS ONLY)	7 NET
STANDING SPACE	5 NET
UNCONCENTRATED (TABLES AND CHAIRS)	15 NET
BUSINESS AREAS	150 GROSS
EXERCISE ROOMS	50 GROSS

REQUIRED EGRESS WIDTH:

MINIMUM CORRIDOR WIDTH (SEC. 1005.3.2)	44" MIN OR .15" PER OCCUPANT
NUMBER OF EXITS REQUIRED (TABLE 1006.3.1 / TABLE 1006.3.2(2)	
1-49 OCCUPANTS	1
51-500 OCCUPANTS	2
MAXIMUM TRAVEL DISTANCE TO AN EXIT (TABLE 1017.2)	200'
MAXIMUM LENGTH OF DEAD END CORRIDORS (1020.4)	50' OR UNLIMITED LENGTH WHEN MIN. WIDTH < 2.5 TIMES THE WIDTH OF THE DEAD END CORRIDOR
COMMON PATH OF TRAVEL (TABLE 1006.2.1)	< 30 OCC SERVED = 75'-0" TO CHOICE OF 2 EXIT PATHS

Stantec

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Consultant

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
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Permit/Seal

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Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

GYMNASIUM LIFE SAFETY & CODE REVIEW PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

G102 - PES

<Pick location in Project Information>
12/5/2025 8:46:17 AM

ORIGINAL SHEET - ARCH E1

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E D C B A

CONSTRUCTION

1. FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOUR NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAVING AT CONSTRUCTION@FBCTX.GOV.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY "RULES, REGULATIONS AND REQUIREMENTS" RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
5. ALL ROAD WIDTHS, CURB RADII AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
6. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
7. ALL CONCRETE PAVEMENT SHALL BE 5½ SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
9. 4" X 12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
10. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
11. GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION – BOTH DAY AND NIGHT.
12. ALL R1-1 STOP SIGNS SHALL BE A MINIMUM OF 36"X36" WITH DIAMOND GRADE SHEETING PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
13. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE W/REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP SIGN POST.
14. A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.
15. THE PROJECT AND ALL PARTS THEREOF SHALL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY INSPECTORS DESIGNATED BY FORT BEND COUNTY. NO SUCH INSPECTIONS SHALL RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER. NEITHER FAILURE TO INSPECT NOR FAILURE TO DISCOVER OR REJECT ANY OF THE WORK AS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF FORT BEND COUNTY OR ANY PROVISION OF THIS PROJECT SHALL BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR TO RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER.
16. STABILIZED SUBGRADE: DETERMINE THE THICKNESS OF THE STABILIZED SUBGRADE AFTER CURING AND COMPACTION. IF THE SUBGRADE DEPTH IS GREATER THAN THE PROPOSED THICKNESS BY 20% OR MORE, THE CMT LAB MUST PROVIDE VERIFICATION THE PERCENTAGE OF MATERIAL BEING USED TO STABILIZE THE SUBGRADE MEETS OR EXCEEDS PROJECT REQUIREMENTS. TEST RESULTS REQUIRED.

NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES.

J:\1704\1601\Fort Bend County Standards\Fort Bend County STD\FBC GENERAL NOTES\FORT BEND CO GENERAL NOTES.dwg

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-22	RJS

FORT BEND COUNTY
ENGINEERING DEPARTMENT

THE STATE OF TEXAS · FORT BEND COUNTY

PROJECT TITLE:
DRAWN BY: INIT
CK'D BY: INIT
SHEET DESCRIPTION: CONSTRUCTION GENERAL NOTES
FBCED STANDARD 02
SCALE: NONE
DATE: 2-1-22
APPROVED BY:
SHEET NO: /

PLOT TIME: TIME STAMP

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL BURIED UTILITIES IDENTIFIED, PROTECTED, REPLACED AND/OR PROPERLY REPAIRED IF DAMAGED. REPAIRS/REPLACEMENT SHALL BE AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE ALL APPLICABLE PERMITS AND AN APPROVED COPY OF THE PLANS AND SPECIFICATIONS. NOTIFY THE CITY PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF MISSOURI CITY PUBLIC WORKS 24 HOURS PRIOR TO WEEKDAY WORK REQUIRING INSPECTION INCLUDING, BUT NOT LIMITED TO, LIMING, PAVING OPERATIONS, CONCRETE PLACEMENT, FORMING AND SET-UP, DENSITIES, PIPE INSTALLATION, AND ANY TESTING BY LABORATORIES. DEPARTMENT OF PUBLIC WORKS MAY BE REACHED AT 281-403-8570 OR BY CONTACTING THE ASSIGNED INSPECTOR.
4. ALL SATURDAY WORK SHALL BE REQUESTED, IN WRITING, WITH THE DEPARTMENT OF PUBLIC WORKS AT LEAST 48-HOURS IN ADVANCE. SUNDAY AND HOLIDAY WORK REQUIRES 72 HR. WRITTEN REQUESTS AND MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR. REQUIRED INSPECTIONS MAY BE SUBJECT TO INSPECTION FEES. NON-NOTIFICATIONS MAY RESULT IN NON-COMPLIANCE, WORK ORDERED STOPPAGE AND DOUBLE INSPECTION FEES.
5. FULL-TIME RESIDENT INSPECTION BY THE PROJECT ENGINEER'S REPRESENTATIVE SHALL BE PROVIDED AT ALL CRITICAL POINTS OF CONSTRUCTION AND AS DEEMED NECESSARY BY THE CITY OF MISSOURI CITY.
6. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS, THE CITY OF MISSOURI CITY DESIGN MANUAL (ISSUED 2019), AND THE CITY OF MISSOURI CITY STANDARD DETAIL SHEETS. THE CITY OF MISSOURI CITY DESIGN MANUAL SHALL BE ACQUIRED (AND USED) FROM THE DEPARTMENT OF PUBLIC WORKS, 1522 TEXAS PARKWAY, PHONE 281-403-8570. THE LATEST REVISIONS AND/OR AMENDMENTS SHALL BE OBSERVED. WHERE CONFLICT MAY ARISE BETWEEN INFORMATION ON APPROVED CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS, AND CITY OF MISSOURI CITY STANDARDS, THEN THE CITY OF MISSOURI CITY STANDARDS SHALL GOVERN.
7. ALL STATIONS ARE CENTERLINE OF STREET RIGHT-OF-WAY UNLESS OTHERWISE NOTED ON THE PLANS EXCEPT IN SIDE OR BACK LOT EASEMENTS WHERE CENTERLINE IS CENTER OF PIPE. IN EASEMENTS WHERE SANITARY AND STORM SEWER ARE PRESENT PARALLEL, STATIONS SHALL BE BASED ON CENTERLINE OF STORM SEWER PIPING.
8. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE AREA OR STRUCTURE DISTURBED, DURING CONSTRUCTION, SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OF MISSOURI CITY.
9. ANY POLLUTION CONTROL DEVICE, SOD, OR SEEDED AREA DAMAGED, DISTURBED, OR REMOVED SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR WATERING ANY SEED OR SOD WHICH HE HAS INSTALLED UNTIL ADEQUATE GROWTH IS ACHIEVED TO PREVENT EROSION.
10. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF MISSOURI CITY. IF NON-COMPLIANCE OCCURS, CONTRACTOR SHALL REMEDY IMMEDIATELY AT HIS OWN EXPENSE.
11. ANY MATERIALS OR WORKMANSHIP NOT MEETING OR EXCEEDING CITY OF MISSOURI CITY STANDARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL KEEP THE STREETS, RIGHT-OF-WAY, AND WORK AREA CLEAN OF DIRT, MUD, AND DEBRIS.
13. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL REQUIRED TRAFFIC SAFETY CONTROL DEVICES UP TO AND INCLUDING FLAGMEN OR POLICE OFFICERS, IF DEEMED NECESSARY BY THE CITY OF MISSOURI CITY.
14. THE CONTRACTOR SHALL CONTACT THE CITY OR LOCAL MUNICIPAL UTILITY DISTRICT AS APPROPIATE TO OPERATE EXISTING UTILITIES AND PRIOR TO MAKING TIE-INS.
15. ALL BACKFILL WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS SHALL BE ENGINEERED TO 95% STANDARD PROCTOR DENSITY (IN 8 INCH LIFTS) AND TESTED FOR -1% TO +4% OPTIMUM BY AN APPROVED LAB.
16. IT IS PERMISSIBLE TO USE A BACKHOE FOR TRENCH EXCAVATION IN LIEU OF A TRENCHING MACHINE.
17. THE CONTRACTOR SHALL NEVER UNLOAD ANY TRACK-TYPE VEHICLE OR EQUIPMENT ON ANY EXISTING PAVEMENT OR CROSS OVER ANY EXISTING PAVEMENT OR CURB.
18. ALL FINISH GRADES ARE TO CONFORM TO A MINIMUM SLOPE OF 6" PER 100 FT. POSITIVE DRAINAGE IS DEPICTED BY ARROWS.
19. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
20. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS.
21. ALL TESTING PROCEDURES SHALL CONFORM TO THE CITY OF MISSOURI CITY STANDARDS. THE INITIAL TESTING EXPENSE SHALL BE BORNE BY THE OWNER. IF ANY OF THE TESTS DO NOT MEET THE TESTING STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR REPLACE SUCH MATERIAL SO THE TESTING STANDARDS CAN BE MET. ADDITIONAL TESTING TO MEET COMPLIANCE SHALL BE AT THE CONTRACTOR'S EXPENSE.
22. CONTRACTOR SHALL PROVIDE SHEETING, SHORING, AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER O.S.H.A. REQUIREMENTS.
23. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TXDOT STANDARD SPECIFICATIONS, 2014, AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009), AND ANY REVISIONS THERETO.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIALS AND EQUIPMENT STORED ON THE JOBSITE IN A SAFE AND WORKMAN-LIKE MANNER (DURING AND AFTER WORKING HOURS), UNTIL JOB COMPLETION.
25. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES, AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIAL AND EQUIPMENT.
26. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, AND COMPLETION OF THE PROJECT AS SHOWN ON THE PLANS AND SPECIAL PROVISIONS TO COMPLY WITH CITY OF MISSOURI CITY STANDARDS.
27. NO PRIVATE UTILITIES (I.E., PHONE, CABLE T.V., ELECTRICITY, ETC.) SHALL BE INSTALLED WITHIN 4 FEET BACK OF CURB.
28. PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING CURRENT OSHA STANDARDS FOR TRENCH SAFETY SYSTEMS, SEALED BY A LICENSED PROFESSIONAL ENGINEER. APPROPRIATE TRENCH SAFETY PLANS SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO EXECUTION OF A CONTRACT FOR HIS WORK. THE TRENCH SAFETY SYSTEM SHALL CONFORM TO THE CITY OF MISSOURI CITY TRENCH ORDINANCE.
29. ALL CHANGES IN DIRECTION FOR SIDEWALK SHALL BE DONE IN A CURVILINEAR FASHION, NOT ANGULAR.
30. PROVIDE ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
31. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS A MINIMUM OF 24 HOURS PRIOR TO STARTING CONSTRUCTION ON ALL DRIVEWAYS. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL DRIVEWAYS AT NO SEPARATE PAY.
32. OPEN TRENCHES SHALL BE ALLOWED ONLY DURING ACTIVE CONSTRUCTION AND SHALL NOT BE LEFT OPEN OVER NIGHT AND SHALL BE FENCED OFF/BARRICATED AT END OF SHIFT. NO MORE THAN 100 FEET OF TRENCH WILL BE OPEN AT ONE TIME.
33. PROTECT ALL TREES NOT CALLED OUT TO BE REMOVED.
34. IRON RODS DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED BY A REGISTERED PUBLIC LAND SURVEYOR FOR THE PROPERTY OWNER AT NO SEPARATE PAY.
35. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.

CONCRETE/PAVING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND AUTHORIZATION REQUIRED BY CITY OF MISSOURI CITY.
2. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO CONSTRUCTION AND WILL REPAIR OR REPLACE ANY DAMAGE AT CONTRACTOR'S EXPENSE.
3. PAVING CONTRACTOR SHALL PROTECT WATER, SEWER, AND DRAINAGE FACILITIES AND WILL REPLACE ANY DAMAGED FACILITIES AT HIS OWN EXPENSE. ALL MANHOLES AND VALVES WITHIN THE PAVEMENT AREA SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR WITH THE USE OF APPROVED BLOCKOUTS.
4. WHEN THE TOP OF CURB OR BOTTOM OF SIDEWALK SLAB ELEVATION VARIES FROM THE NATURAL GROUND, THE PAVING CONTRACTOR SHALL BACKFILL IN LAYERS NOT EXCEEDING 8-INCHES IN DEPTH. EACH LAYER WILL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. THE DISTURBED AREA SHALL BE SEEDED, SODDED, FERTILIZED, AND/OR SILT BARRIER FENCED WITHIN 10 WORKING DAYS. THE TYPE OF POLLUTION CONTROL WILL BE DETERMINED BY THE APPROVED PLANS, PROJECT ENGINEER AND/OR THE CITY OF MISSOURI CITY ENGINEER.
5. ALL PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF MISSOURI CITY INFRASTRUCTURE ORDINANCES, APPROVED PLANS AND SPECIFICATIONS WITH THE LATEST REVISIONS OR AMENDMENTS. IN THE EVENT OF A CONFLICT, THE CITY OF MISSOURI CITY INFRASTRUCTURE ORDINANCE GOVERNS.
6. PAVING CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT PROTECTION FENCES ON ALL STAGE I CURB INLETS. THE PAVING CONTRACTOR SHALL MAINTAIN ANY OTHER POLLUTION CONTROLS ESTABLISHED, I.E., ADDITIONAL SILT BARRIERS, SAND BAGS, ETC., FOR THE DURATION OF THE PROJECT. ANY DAMAGED OR MISSING DEVICES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS, ETC., DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE CITY OF MISSOURI CITY STANDARDS AT THE CONTRACTOR'S EXPENSE.
8. CONDITION OF THE WORK AREA (INCLUDING ROADS, RIGHT-OF-WAYS, ETC.) UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING THE WORK.
9. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.
10. REDWOOD AND KEYWAYS SHALL NOT INTERSECT WITHIN 2 FEET OF AN INLET.
11. FLY-ASH AS A PERCENTAGE OF CEMENT CONTENT WITHIN THE PAVEMENT IS ALLOWED AS DESCRIBED IN THE INFRASTRUCTURE DESIGN MANUAL.
12. ALL CONCRETE PLACED SHALL BE UNIFORMLY SPRAYED WITH A MEMBRANE CURING COMPOUND AS DESCRIBED IN ITEM 526 IN THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. IMPROPER APPLICATION WILL RESULT IN THE REJECTION OF THE CONCRETE.
13. SIX (6) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 REBAR, 24" O.C. EACH WAY IS THE MINIMUM ACCEPTABLE CONSTRUCTION FOR RESIDENTIAL STREETS
14. SEVEN (7) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 REBAR, 24" O.C. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR MAJOR COLLECTOR STREETS.
15. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, WITH #4 REBAR, 18" O.C. EACH WAY IS THE MINIMUM LE ACCEPTABLE FOR MAJOR THOROUGHFARE STREETS.
16. WHEN 6" CONCRETE PAVEMENT INTERSECTS 7" PAVEMENT, 7" PAVEMENT SHALL BE CONSTRUCTED TO THE ENDS OF ALL CURB RETURNS.
17. ALL RETURNS SHALL HAVE A MIN. 25 FT. RADIUS AT THE BACK OF CURB UNLESS OTHERWISE NOTED.
18. ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARD, THE AMERICAN DISABILITIES ACT, AND THE CITY OF MISSOURI CITY STANDARDS (LATEST REVISIONS).
19. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITHIN EACH STREET RIGHT-OF-WAY IN ACCORDANCE WITH CITY OF MISSOURI CITY, THE A.D.A., AND THE T.A.S. STANDARDS (LATEST REVISIONS).
20. CRACKS 1/16-INCH OR LARGER ARE NOT ACCEPTABLE IN NEW PAVEMENT. CRACKS 1/16-INCH OR LESS SHALL BE ADDRESSED ON AN INDIVIDUAL BASIS, SUBJECT TO APPROVAL OR REJECTION.
21. PROPER TESTING AND LAB DOCUMENTATION IS REQUIRED. FAILURE TO MEET THE MINIMUM PAVEMENT REQUIREMENTS WILL RESULT IN THE REJECTION OF SAID PAVEMENT. IMMEDIATE REMOVAL AND REPLACEMENT OF SUBSTANDARD PAVEMENT SECTIONS WILL BE NECESSARY TO SATISFY THESE REQUIREMENTS.
22. LIME DEPTH DETERMINATIONS WILL BE CONDUCTED AT EACH LOCATION OF DENSITY TESTING, LIME-STABILIZED SUBGRADE SHALL BE A MINIMUM OF 6% AT 6" UNLESS OTHERWISE DIRECTED BY CITY ENGINEER. DENSITY TESTING SHALL BE DONE IMMEDIATELY PRIOR TO PLACEMENT OF REINFORCING STEEL, AND SHALL BE COMPACTED TO A MINIMUM OF 95%.
SUBGRADE DENSITY TESTS SHALL BE RETAKEN IN THE EVENT OF A > 1/2-INCH RAINFALL EVENT AT THE CONTRACTOR'S EXPENSE. NO CONCRETE SHALL BE PLACED IN STANDING WATER OR IF MOISTURE CONTENT OF SUBGRADE IS IN NON-COMPLIANCE WITH SPECIFICATIONS FOR -1% TO +4% OF OPTIMUM
23. 4-CONCRETE CYLINDERS, SLUMP, AND AIR ENTRAINMENT TESTS ARE REQUIRED FOR EACH 150 CUBIC YARDS OF CONCRETE PAVING WITH A MINIMUM OF ONE SET OF 4 PER PLACEMENT. THE CITY OF MISSOURI CITY RESERVES THE RIGHT TO REQUEST ANY-ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE, IF ANY MATERIAL APPEARS BELOW STANDARDS.
24. NO. 3 REBAR, 18-INCH C.C. E.W. IS THE MINIMUM ACCEPTABLE FOR SIDEWALKS. NUMBER 4-REBAR, 24-INCH C-C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR COMMERCIAL APPROACHES, HANDICAP RAMPS, RESIDENTAL APPROACHES AND DRIVEWAYS.
25. COLD WEATHER PRECAUTIONS. CONCRETE PAVEMENT SHALL NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS 40°F AND FALLING. CONCRETE MAY BE PLACED IF THE AMBIENT TEMPERATURE IS 35° AND RISING. CONTRACTOR SHALL PROVIDE AN APPROVED COVERING MATERIAL (COTTON MATS, POLYETHYLENE SHEETING, ETC.) IN THE EVENT TEMPERATURE SHOULD FALL BELOW 32°F. NO SALT OR OTHER CHEMICALS SHALL BE ADDED TO CONCRETE TO PREVENT FREEZING.
26. HOT WEATHER. NO CONCRETE PAVEMENT MIXTURE SHALL BE PLACED IF THE MIXTURE TEMPERATURE IS ABOVE 95°F. AIR AND WATER REDUCER ARE REQUIRED IF MIXTURE TEMPERATURE REACHES 85°F OR ABOVE.
27. IF NO AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 60 MINUTES PAST BATCH TIME. IF AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 90 MINUTES PAST BATCH TIME.
28. STRUCTURE TEMPERATURES AND TIMING FOR CONCRETE PLACEMENT MAY VARY. REFER TO TXDOT STANDARDS ITEM 420 FOR DETAILS.
29. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT A MAXIMUM SPACING OF SIXTY (60) FT. C-C WITH VERTICAL REDWOOD JOINTS EXTENDING THROUGH THE CURB @ EVERY EXPANSION JOINT. ALL JOINTS AND VERTICAL CURB JOINTS TO BE SEALED WITH LIQUID RUBBER CONFORMING TO TXDOT ITEM 380.2(8)C, CLASS-2 (HOT POURED RUBBER).
30. EXPANSION JOINT LAYOUT FOR INTERSECTIONS SHALL BE PROVIDED BY ENGINEER FOR CITY APPROVAL.
31. NO WIRE MESH IS ALLOWED IN ANY CONCRETE WITHIN THE CITY LIMITS OR ETJ.
32. ALL REBAR SHALL BE 100% TIED. OVERLAPS SHALL BE DOUBLE TIED MINIMUM.
33. ALL NEW CURB REQUIRES 3,500 P.S.I. @ 28-DAYS, AND A MINIMUM OF 1-LB/CY OF APPROVED POLYPROPYLENE FIBER MESH.

ASPHALT – OILS AND EMULSIONS

1. CONTRACTOR SHALL VERIFY LINES AND GRADES AND THAT COMPACTED BASE IS READY TO SUPPORT LOADS.
2. BASE MATERIAL SHALL BE DRY AND THOROUGHLY CLEAN OF LOOSE MATERIAL PRIOR TO APPLICATION.
3. OILS & EMULSION SHALL BE DISTRIBUTED EVENLY AND SMOOTHLY UNDER PRESSURE NECESSARY FOR PROPER DISTRIBUTION.
4. MAINTAIN REQUIRED SURFACE CONDITIONS UNTIL ACCEPTED BY THE CITY OF MISSOURI CITY.
5. PRIME COAT SHALL BE M.C.-30, M.C.-70 OR E.P.R.1 PRIME AND SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES (1993) AND ITS LATEST REVISIONS.
6. TACK COAT SHALL BE SS-1 AND SHALL COMPLY TO TXDOT, S.S.C.H.S. & B. (1993) AND ITS LATEST REVISIONS.
7. M.C.-30 AND M.C.-70 AND EPR-1 PRIME SHALL BE DISTRIBUTED AT A RATE OF .25 TO .35 GALLONS PER SQUARE YARD. AND MAY NOT BE APPLIED WHEN AMBIENT TEMPERATURE IS 50°F AND FALLING. (NOTICE: CUTBACK ASPHALTS MAY NOT BE USED DURING THE PERIOD OF APRIL 16 THROUGH SEPT. 15 AS PER ASTM D-244).
8. EPR-1 MAXIMUM WATER DILUTION IS 3 PARTS WATER TO ONE PART EPR-1.
9. SS-1 TACK COAT SHALL BE APPLIED AT A RATE NOT TO EXCEED 0.06 GAL. PER SQUARE YARD OF SURFACE AREA. CONTACT JOINTS, CURBS, ETC. SHALL BE PAINTED WITH AN EVEN THIN COAT APPLIED BY BRUSH OR BROOM. COATING MATERIAL SHALL BE HEATED TO 125°F TO 180°F WHEN APPLIED. TACK COAT MAY BE APPLIED WHEN AMBIENT TEMPERATURES ARE 40°F AND RISING. TACK COAT MAY NOT BE APPLIED IF AMBIENT AIR IS 50°F AND FALLING.

CEMENT STABILIZED SAND

1. ALL STABILIZED SAND SHALL BE A MINIMUM OF 1 1/2 SACKS PER TON.
2. CEMENT STABILIZED SAND (C.S.S.) SHALL ACHIEVE A MINIMUM OF 100 PSI WITHIN 48 HOURS.
3. A MINIMUM OF 2 RANDOM SAMPLES SHALL BE TAKEN EACH WEEK. (FOR SMALLER PROJECTS, ONE SAMPLE MAY SUFFICE WITH CITY OF MISSOURI CITY APPROVAL.) THE CITY OF MISSOURI CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL TESTS, AT THE CONTRACTORS EXPENSE IF IT IS DEEMED NECESSARY.
4. ANY C.S.S. NOT MEETING CITY OF MISSOURI CITY STANDARDS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
5. BOTH CEMENT CONTENT AND COMPRESSIVE TESTS SHALL BE CONDUCTED ON C.S.S. SAMPLES.
6. ALL C.S.S. SHALL BE COMPACTED IN MAXIMUM OF 8-INCH LIFTS AND REQUIRED TO REACH A MINIMUM DENSITY OF 95%.
7. CEMENT STAB. SAND MAY NOT BE STORED FOR LONG PERIODS. MAXIMUM ALLOWED TIME – 3 HRS FROM BATCH TIME TO HAVING BEEN INSTALLED.

BANK SAND

1. BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SILT, CLAY, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATER, MEETING THE UNIFIED SOILS CLASSIFICATIONS SYSTEM GROUP SYMBOL SW CRITERIA WITH A PLASTICITY INDEX OF LESS THAN 10. NO MORE THAN 12% OF MATERIAL CAN PASS THE No. 200 SIEVE.

HOT MIX ASPHALTIC BASE COURSE

1. NO HOT MIX ASPHALTIC BASE MAY BE INSTALLED UNTIL THE SUBGRADE HAS BEEN PROPERLY PREPARED AND TESTED AS PER THE PLANS AND SPECIFICATIONS. THE SUBGRADE SHALL BE INSPECTED AND APPROVED BY THE CITY OF MISSOURI CITY BEFORE ANY BASE MATERIALS ARE INSTALLED.
2. HOT MIX ASPHALTIC BASE MATERIALS, HANDLING, AND INSTALLATION SHALL COMPLY WITH TXDOT STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES 1995 (SECTION 02711) AND ITS LATEST REVISIONS.
3. HOT MIX ASPHALTIC BASE MATERIALS SHALL BE AT TEMPERATURES BETWEEN 250°F AND 325°F, WHEN PLACED.
4. MATERIALS MAY NOT BE PLACED IN WET CONDITIONS OR IF THE AMBIENT TEMPERATURE IS BELOW 50°F AND FALLING. MATERIALS MAY BE INSTALLED IF THE AMBIENT TEMPERATURE IS TAKEN IN THE SHADE AND IS 40°F AND RISING.
5. PLACE BASE COURSES 4 INCHES OR GREATER IN THICKNESS IN TWO OR MORE LAYERS, EACH HAVING A COMPACTED THICKNESS OF NOT GREATER THAN 4 INCHES.
6. BASE MATERIAL MAY ONLY BE PLACED AGAINST CLEAN, STRAIGHT EDGES. SAW CUTTING, FULL DEPTH, IS REQUIRED IF EXISTING EDGES ARE ROUGH OR UNEVEN.
7. COMPACTION SHALL BEGIN WHILE MATERIAL IS STILL HOT AND AS SOON AS IT WILL BEAR THE ROLLER OR COMPACTOR WEIGHT WITHOUT UNDUE DISPLACEMENT OR HAIR CRACKING.
8. COMPACT SURFACE UNIFORMLY WITH ROLLERS OR TAMPERS IN LOCATIONS NOT READILY ACCESSIBLE (I.E., ALONG CURBS, WALLS, ETC.).
9. UNLESS OTHERWISE SPECIFIED, COMPACT DENSITY TO NOT LESS THAN 95% OF MAXIMUM POSSIBLE DENSITY.
10. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
11. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY TO A.S.T.M. ASPHALT INSTITUTE AND CITY OF MISSOURI CITY REQUIREMENTS. FAILURE TO COMPLY WILL RESULT IN REJECTION OF SAID MATERIALS AND SUCH SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. DO NOT OPEN BASE TO TRAFFIC UNTIL IT CAN BE MAINTAINED IN GOOD CONDITION AND IS CAPABLE OF SUPPORTING VEHICLE WEIGHT WITHOUT DAMAGE OR DEGRADATION.
13. DENSITIES SHALL BE TAKEN AT A MINIMUM OF AT LEAST ONCE PER 300 LF OF DRIVE LANE OR ONCE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES. FAILURE TO MEET MINIMUM REQUIREMENTS SHALL RESULT IN THE REPLACEMENT OF SAID MATERIAL AT CONTRACTOR'S EXPENSE.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED HEREIN, AT A MINIMUM OF ONCE EVERY CALENDAR DAY.
3. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEM THROUGHOUT THE DURATION OF THE CONTRACT. (NO SEPARATE PAY).
4. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
5. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEM. CONTRACTOR SHALL USE SILT FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS. (NO SEPARATE PAY).
6. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTION TAKEN TO REMEDY THE PROBLEM.
7. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER. (NO SEPARATE PAY).
8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
10. AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER/S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
11. IF EROSION AND SEDIMENTATION CONTROL SYSTEM IS EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVES WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEM FOR DAMAGE PRIOR TO CONTRACTOR STARING CONSTRUCTION OF THE CONTRACT, ANY DAMAGE NOTED AT THIS TIME SHALL BE REPAIRED AT OWNER'S EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, THE CONTRACTOR SHALL REMOVE ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.

LIMING SUBGRADE

1. LIME SHALL BE A "SLURRY" AS PER TXDOT 260 UNLESS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE PUBLIC WORKS ENGINEER.
2. ALL LIME SLURRIES SHALL BE FURNISHED AT OR ABOVE THE MINIMUM "DRY SOLIDS" CONTENTS AS APPROVED BY THE ENGINEER.
3. SUBGRADES SHALL BE STABILIZED WITH A MINIMUM SIX PERCENT (6%) LIME BY WEIGHT, SIX INCHES (6") THICK TO REDUCE PLASTICITY INDEX (PI) TO FIFTEEN (15) AS DETERMINED LIME SERIES. ADD ONE PERCENT (1%) FOR FIELD VARIATION. IF PI OF 15 OR LESS CANNOT BE OBTAINED, THEN THE LIME TREATED SOILS MUST OBTAIN A pH OF 12.4, MUST BE INCREASED TO EIGHT INCHES (8") THICK AND COMPATED TO NINETY-FIVE PERCENT (95%) STANDARD PROCTOR DENSITY.
4. LIME DRY SOLID CONTENT TESTS SHALL BE CONDUCTED ON SITE, ONCE PER ONE-HUNDRED (100) TONS OF MATERIAL DISTRIBUTED, UNLESS OTHERWISE NOTED.
5. THE SUBGRADE SHALL BE SHAPED AND GRADED TO CONFORM TO THE TYPICAL SECTIONS, AS SHOWN ON THE PLANS, PRIOR TO TREATING THE EXISTING MATERIAL.
6. UNLESS APPROVED BY THE CITY ENGINEER, LIME OPERATIONS SHALL NOT BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS BELOW 40°F, AND FALLING. LIMING MAY, WITH APPROVAL, BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS 35°F AND RISING. LIME SHALL NOT BE PLACED WHEN WEATHER CONDITIONS, IN THE ENGINEER'S OPINION, ARE UNSUITABLE. MINIMUM AS APPROVED BY THE CITY ENGINEER.
7. THE SUBGRADE MATERIAL AND SLURRY SHALL BE THOROUGHLY MIXED, BROUGHT TO THE PROPER MOISTURE CONTENT (+ OR – 2) AND LEFT TO CURE USUALLY 3 DAYS (72 HRS.)
8. AFTER CURING, THE SUBGRADE SHALL BE REMIXED UNTIL PULVERIZATION REQUIREMENTS ARE MET, AS PER TXDOT.
TEX-101-E, PART III.

		PERCENT
MINIMUM PASSING	1-3/4" SIEVE	100
MINIMUM PASSING	3/4" SIEVE	85
MINIMUM PASSING	NO.4 SIEVE	60

9. SIEVE TESTS SHALL BE CONDUCTED EVERY 150 LF ON ALTERNATING LANES OF TRAFFIC OR EVERY 300 LF ON SINGLE LANES AS REQUIRED. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY OR CUL-DE-SAC.
10. THE MATERIAL SHALL BE AERATED OR MOISTENED -1% TO 4% OPTIMUM PRIOR TO COMPACTION. COMPACTION TO A MINIMUM 95% DENSITY SHALL BEGIN IMMEDIATELY AFTER ALL PULVERIZATION AND MOISTURE REQUIREMENTS ARE MET. THROUGHOUT THIS ENTIRE OPERATION, THE SURFACE SHALL BE SMOOTH AND IN CONFORMITY WITH THE LINES AND GRADES ON THE PLANS.
11. WHEN THE SUBGRADE FAILS TO MEET DENSITY REQUIREMENTS OR SHOULD IT LOSE THE REQUIRED STABILITY, DENSITY OR FINISH, IT SHALL BE REWORKED IN ACCORDANCE WITH TXDOT SUBARTICLE 260.4(7) "REWORKING A SECTION", WHICH MAY REQUIRE AN ADDITIONAL 25% OF THE SPECIFIED LIME AMOUNT.
12. THE TREATED SUBGRADE SHALL BE KEPT MOIST AND PREVENTED FROM DRYING. IN THE EVENT OF A ONE-HALF (1/2) INCH RAINFALL AND/OR IF THE MATERIAL BECOMES DRY, DENSITY AND MOISTURE TESTS SHALL BE RETAKEN.
13. NO SUBGRADE SHALL BE COVERED WITH ANOTHER MATERIAL UNLESS APPROVED BY THE CITY OF MISSOURI CITY AND LIME DEPTH TESTS HAVE BEEN COMPLETED. LIME DEPTH TESTS SHALL BE CONDUCTED AT EVERY 150 LF OF ROADWAY ON ALTERNATING LANES OR EVERY 300 LF OF SINGLE LANE. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY AND/OR CUL-DE-SAC.

No.	DATE	REVISION

GENERAL CONSTRUCTION NOTES

missouri CITY TEXAS

APPROVED BY:
CITY ENGINEER: ____________ DATE ________
CONSTRUCTION PLANS FOR:

JOB No.:
SCALE: AS NOTED
SUBMITTED: ________
DATE: DECEMBER 2018
MC-1-19
SHEET 2 OF 32

CAD FILE PATH: CADD_FILE_PATH
PLOT DATE: DATE

PLOT TIME: TIME STAMP

ASPHALTIC CONCRETE PAVEMENT

1. ASPHALTIC MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ASTM C 33, ASTM C 131, ASTM C 136, AND TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS. ASPHALT SHALL BE TYPE D-100 UNLESS SPECIFICALLY NOTED AND APPROVED BY CITY OF MISSOURI CITY ENGINEER.
2. CONTRACTOR SHALL VERIFY ELEVATIONS AND GRADES AND THAT BASE COURSE IS READY TO SUPPORT IMPOSED LOADS.
3. APPLY A PRIME COAT AS PER CITY OF MISSOURI CITY AND TXDOT STANDARDS. DO NOT APPLY TACK COAT UNTIL PRIMED BASE COURSE HAS CURED AND IS APPROVED BY THE CONSTRUCTION INSPECTOR.
4. TACK COAT SHALL COMPLY TO CITY OF MISSOURI CITY AND TXDOT STANDARDS.
5. DO NOT USE CUTBACK ASPHALT APRIL 16 THROUGH SEPTEMBER 15.
6. DO NOT PLACE ASPHALT WHEN AMBIENT TEMPERATURE IS BELOW 50°F AND FALLING. MIXTURE MAY BE PLACED WHEN AMBIENT TEMPERATURE IS 40°F AND RISING.
7. ON PUBLIC ROADS, STREETS, AND RIGHT-OF-WAY, ASPHALT SHALL BE PLACED IN MAXIMUM 2-INCH LIFTS. IN THE EVENT MORE THAN ONE LIFT IS REQUIRED, EACH LIFT SHALL BE COMPACTED, TESTED, AND GIVEN ADEQUATE TIME FOR THE PREVIOUS LIFT TO CURE AND DRY BEFORE THE NEXT LIFT IS PLACED. IF COMPLETELY CURED AND DRIED, A TACK COAT WILL BE REQUIRED BETWEEN LIFTS.
8. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
9. ROLLING PATTERNS SHALL BE ESTABLISHED BY THE CONTRACTOR, AS RECOMMENDED BY THE LAB, TO ACHIEVE THE MAXIMUM COMPACTION. THE SELECTED ROLL PATTERN SHALL BE FOLLOWED UNLESS CHANGES IN THE PLACEMENT OR MIXTURE OCCUR, WHICH AFFECT COMPACTION. COMPACTION OF 95% SHALL BE ACHIEVED.
10. ASPHALT SHALL NOT BE PLACED ON WET BASE.
11. NO "BIRDBATHS" ARE ALLOWED.
12. IF THE SURFACE RAVELS (SEPARATES), FLUSHES, RUTS, OR DETERIORATES IN ANY MANNER PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR WILL CORRECT THIS CONDITION AT HIS EXPENSE TO THE SATISFACTION OF THE CITY OF MISSOURI CITY ENGINEER.
13. THE CONTRACTOR SHALL PROTECT THE PAVEMENT UNTIL DIRECTED BY THE CITY ENGINEER TO OPEN SAID PAVEMENT TO TRAFFIC.
14. RIDE QUALITY SHALL COMPLY WITH TXDOT ITEM 585, "RIDE QUALITY FOR PAVEMENT SURFACES".
15. SPECIAL NOTE: CONTRACTOR, WHILE MAXIMIZING COMPACTION, SHALL USE CAUTION NOT TO "OVER-ROLL" ASPHALT. PAVEMENT STRETCHED OR OVER-ROLLED, WHERE COMPACTION IS BROKEN, SHALL NOT BE ACCEPTED AND SHALL BE REPAIRED OR REPLACED TO THE CITY ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
16. CORE SAMPLES SHALL BE TAKEN RANDOMLY AT A MINIMUM OF EVERY 300 LF PER LANE OF ROADWAY OR ONE PER EVERY 250 SQ. YD., WHICHEVER IS APPLICABLE AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
17. ALL ASPHALTIC CONCRETE PAVEMENT REPAIRS SHALL BE SAW CUT TO FULL ASPHALT DEPTH. REFER TO ASPHALT, STABILIZED BASE, FLEXIBLE BASE, ASPHALT BASE, AND OIL AND EMULSION NOTES. ALL DAMAGED BASE AND SUBGRADES SHALL BE REMOVED AND REPLACED TO THE CITY'S ENGINEER SATISFACTION, AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AREA DAMAGED DURING CONSTRUCTION, INCLUDING AREAS OUTSIDE THE DESIGNATED REPAIR.

STABILIZED CRUSHED CONCRETE

1. TEST AND ANALYSIS OF AGGREGATE AND BINDER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTMD 1557 AND ASTMD 4318. CEMENT SHALL BE ASTMC 150 TYPE I.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS AND CITY OF MISSOURI CITY STANDARDS.
3. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROVIDE MINIMUM CEMENT CONTENT OF 2 SK PER TON OF MIX. CEMENT CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON FIELD SAMPLES FALL BELOW 200 PSI.
4. THREE SAMPLES SHALL BE MOLDED EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPRESSIVE STRENGTH SHALL BE THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY MATERIAL BELOW MINIMUM REQUIREMENTS.
5. CONTRACTOR SHALL VERIFY LINES, GRADES, AND COMPACTED SUBGRADING AS READY TO RECEIVE MATERIALS PRIOR TO ITS PLACEMENT.
6. CEMENT STABILIZED BASE MAY NOT BE PLACED IF AMBIENT TEMPERATURE IS 40°F AND FALLING. BASE MATERIAL MAY BE PLACED IF AMBIENT TEMPERATURE IS 35°F AND RISING.
7. MATERIAL MAY NOT BE PLACED IN LIFTS EXCEEDING 6 INCHES IN DEPTH. EACH LIFT SHALL HAVE DENSITIES TAKEN.
8. CEMENT STABILIZED BASE MAY NOT BE STORED FOR LONG PERIODS. DELIVERY OF MATERIAL AND UTILIZATION SHOULD BE TIMED ACCORDINGLY. MAXIMUM TIME ALLOWED 3 HRS. FROM BATCH TIME TO HAVING BEEN INSTALLED.
9. CEMENT STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.
10. COMPACT TO MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY. UNLESS OTHERWISE INDICATED ON DRAWINGS, MOISTURE SHALL BE BETWEEN -1% TO +4% OPTIMUM AS DETERMINED BY ASTMD 698.
11. AFTER COMPACTING FINAL COURSE, BLADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, WEAK SPOTS, AREAS OF EXCESSIVE WETNESS, OR SURFACE HAIR LINE CRACKING SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE.
12. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
13. COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 AT RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF MISSOURI CITY CONSTRUCTION INSPECTOR.
14. A MINIMUM OF ONE CORE SHALL BE TAKEN AT RANDOM LOCATIONS PER 300 LF PER LANE OF ROADWAY OR ONE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
15. CURE FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
16. COVER SURFACE WITH CURING MEMBRANES AT THE FOLLOWING RATES: MC-30:.01 GAL. PER SQ. YD., OR EPR-1 PRIME:0.15 GAL. PER SQ. YD. DO NOT USE CUTBACK ASPHALT APRIL 16 TO SEPTEMBER 15. PROTECT THE MEMBRANE BY ALLOWING MEMBRANE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.
17. UNSTABILIZED CRUSHED CONCRETE MAY NOT BE USED ON PUBLIC STREETS, ROADS, OR RIGHTS-OF-WAY.
18. STABILIZED LIMESTONE BASE MAY BE SUBSTITUTED FOR STABILIZED CRUSHED CONCRETE IF SUBMITTED AND APPROVED BY CITY ENGINEER.

STORM SEWER NOTES

1. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED WITH CITY OF MISSOURI CITY INFRASTRUCTURE DESIGN MANUAL AND IN ACCORDANCE WITH CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS.
2. ALL PIPE STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF MISSOURI CITY STANDARD DETAIL DRAWINGS.
3. ALL CEMENT STABILIZED SAND (C.S.S.) SHALL BE 1 1/2 SACK PER TON. AND MEET MINIMUM C.S.S. STANDARDS COMPACTED TO 95%.
4. ALL STORM SEWERS UNDER AND WITHIN TWO (2) FOOT OF PROPOSED OR FUTURE PAVEMENTS SHALL BE BACKFILLED AND COMPACTED WITH 1 1/2 SACK PER TON C.S.S. TO BOTTOM OF SUBGRADE.
5. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES ON INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS WITH FULL MORTAR HEAD AND BED JOINTS AND GROUTED WITH A MINIMUM OF 1/2-INCH MORTAR INSIDE AND OUTSIDE, UNLESS OTHERWISE NOTED.
6. MANHOLES IN HANDICAP RAMPS ARE NOT ALLOWED
7. ALL STORM SEWER MANHOLES SHALL BE OF MISSOURI CITY TYPE "C" UNLESS OTHERWISE NOTED AND SHALL BE LOCATED A MINIMUM OF THREE (3) FEET BACK OF CURB.
8. RIM ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTOR SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE THE FINISH GRADE AT EACH LOCATION AFTER CONTRACTOR HAS COMPLETED FINAL GRADING. SLOPED FILL SHALL BE ADDED FOR STORM WATER DRAINAGE AWAY FROM RIM.
9. RIM ELEVATIONS SHALL BE PROPERLY ADJUSTED TO GRADE IN PAVEMENT AND SIDEWALKS. APPROVED BLOCKOUTS SHALL BE USED IN PAVEMENT.
10. ALL STORM SEWER MANHOLE COVERS MUST INCLUDE "STORM SEWER" AND "DUMP NO WASTE", "DRAINS TO WATERWAYS" WITH CITY OF MISSOURI CITY EMBLEM.
11. MINIMUM STORM SEWER SIZE SHALL BE 24-INCH DIAMETER. ALL STORM SEWER PIPES 24" AND LARGER ARE TO BE REINFORCED CONCRETE PIPE ASTM C-76 CLASS III, INCLUDING INLET LEADS CROSSING UNDER EXISTING OR PROPOSED PAVEMENTS. ALL INLET LEADS SHALL BE 24" R.C.P. OR LARGER. ALL STORM SEWER PIPE SHALL BE RUBBER GASKETED. ALL CMP PIPE SHALL BE IN ACCORDANCE WITH C.O.M.C. APPROVED PRODUCT LIST AND STANDARD DETAILS.
12. CONTRACTOR SHALL VERIFY NATURAL GROUND SHOTS PRIOR TO MANHOLE CONSTRUCTION.
13. CONTRACTOR TO PROVIDE A MINIMUM OF 6-INCHES CLEARANCE AT STORM AND WATER LINE CROSSINGS AND A MINIMUM OF SIX (6) INCHES AT SANITARY SEWER CROSSING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACKSLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
15. ALL DITCHES SHALL BE RESTORED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE COMPACTED AND ALL DISTURBED AREAS SHALL BE RESEEDED OR RESODDED WITHIN 10 WORKING DAYS OF EACH OCCURRENCE (NO SEPARATE PAY).
16. THE UTILITY CONTRACTOR SHALL ROUGH CUT ALL ROADSIDE SWALES IN PROPER ALIGNMENT AND SLOPE TO WITHIN 0.2 FT. OF FINISH GRADE. THE PAVING CONTRACTOR, UPON COMPLETION OF PAVING, SHALL COMPLETE FINAL GRADING ALIGNMENT OF SWALES AND RESTORE ALL AREAS WITHIN RIGHT-OF-WAY FOR SEEDING OR SODDING AND FERTILIZATION.
17. REFER TO GENERAL NOTES AND C.S.S. NOTES.

SANITARY SEWER NOTES

1. SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED AS PER THE REQUIREMENTS OF THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS". SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS SHALL GOVERN.
2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL COMPLY WITH THE CITY OF MISSOURI CITY INFRASTRUCTURE DESIGN MANUAL AND THE CURRENT APPROVED PRODUCTS LIST AS MAINTAINED BY THE DEPARTMENT OF PUBLIC WORKS.
3. STACKS SHALL BE BUILT IN ACCORDANCE WITH THE CITY OF MISSOURI CITY STANDARD DETAIL DRAWING REQUIREMENTS. EXACT LOCATION OF THE STACK SHALL BE SUPPLIED TO THE CITY ENGINEER OF MISSOURI CITY BY THE PROJECT ENGINEER ON SEALED AS-BUILT DRAWINGS AT COMPLETION OF CONSTRUCTION. ALL STACKS SHALL BE INSTALLED WITHIN 3% OF PLUMB RELATIVE TO VERTICAL PLANE AND WILL BE CAPPED AND TERMINATED AT A DEPTH OF 4 FEET BELOW FINISHED GRADE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
4. ALL PVC SANITARY SEWER PIPING SHALL BE GREEN IN COLOR.
5. EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL INCLUDE 4" PVC PIPE AT THE TIME OF CONSTRUCTION,
BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH MARKER SHALL BE PAINTED RED AND LABELED "SANITARY SEWER STUB", "SANITARY SEWER WYE" OR "SANITARY SEWER STACK" AS APPROPRIATE WITH STUB, WYE BRANCH OUTLET OR STACK SIZE NOTED.
6. SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED AS PER DRAWINGS INCORPORATED IN CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS SHEETS. SUCH MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF ONE FOOT FROM BACK OF CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF TRAVELLED ROADWAY ON THOSE THOROUGHFARES HAVING NO CURBING, MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS. CAST IN PLACE MANHOLES AND FIBERGLASS MANHOLES ARE PROHIBITED. ALL MANHOLES SHALL HAVE ECCENTRIC CONES.
7. SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM OF 32 INCHES IN DIAMETER. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF MISSOURI CITY EMBLEM AND THE WORDS "MISSOURI CITY" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF MISSOURI CITY STANDARD CONSTRUCTION DETAILS SHEETS.
8. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE, AND 0.5 FEET ABOVE NATURAL GROUND WITHIN RIGHTS-OF-WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER PAVEMENT CONTRACTOR HAS COMPLETED FINAL GRADING. THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
9. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN NINE FEET OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE SEPARATION DISTANCES OF GREATER THAN NINE FEET CANNOT BE MAINTAINED.
10. TESTING OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE CONDUCTED AS NOTED IN SANITARY SEWER CHAPTER OF THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS".
11. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
12. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY INFRASTRUCTURE STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. CONTRACTOR SHALL NOTIFY INSPECTOR 24-HOURS PRIOR TO INSPECTION.

WATER DISTRIBUTION NOTES

1. WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED AS PER REQUIREMENTS OF THE CITY OF MISSOURI CITY INFRASTRUCTURE DESIGN MANUAL AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS SHALL GOVERN.
2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL COMPLY WITH THE CITY OF MISSOURI CITY INFRASTRUCTURE STANDARDS AND THE CURRENT APPROVED PRODUCTS LIST AS MAINTAINED BY THE DEPARTMENT OF PUBLIC WORKS.
3. ALL GATE VALVES INSTALLED BELOW GRADE SHALL BE OF NON-RISING STEM DESIGN.
4. ALL FIRE HYDRANTS SHALL BE FACTORY PAINTED WITH POLYUREHANE GRAY WITH WHITE CAPS AND BONNET. SHOULD THE HYDRANT BONNET AND CAPS REQUIRE A DIFFERENT COLOR, THE CAPS AND BONNET SHALL COME FROM THE FACTORY PRIME COATED OR ORDERED WITH THE CORRECT COLOR. PAINT SHALL BE APPLIED PRIOR TO INSTALLATION. FIELD PAINTING OF THE HYDRANTS IS NOT ALLOWED OTHER THAN TOUCH-UP. CAP AND BONNET COLOR CHART IS LISTED IN THE INFRASTRUCTURE ORDINCE.
6. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 217, 290. APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN 9' (FT) OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO MOCITY STANDARDS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE DISTANCES ARE GREATER THAN 9' (NINE) FT. CANNOT BE MAINTAINED.
7. EACH WATER SERVICE LEAD STUB SHALL BE MARKED IN ACCORDANCE WITH THE C.O.M.C., AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER MARKER SHALL BE PAINTED BLUE AND LABELED "POTABLE WATER" WITH PIPE SIZE NOTED.
8. TESTING OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C605, CURRENT REVISION.
9. DISINFECTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C651 AND TCEQ. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL NEWLY CONSTRUCTED WATER LINES HAVE BEEN THOROUGHLY DISINFECTED, TESTED, FLUSHED, AND SAMPLED AND CONNECTION HAS BEEN AUTHORIZED BY THE CITY ENGINEER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
11. ALL WATER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE TO INFRASTRUCTURE STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. 24-HOUR NOTICE REQUIRED.

No.	DATE	REVISION

GENERAL CONSTRUCTION NOTES

missouri CITY TEXAS

APPROVED BY:
CITY ENGINEER: ____________ DATE ________
CONSTRUCTION PLANS FOR:

JOB No.:
SCALE: AS NOTED
SUBMITTED: ________
DATE: DECEMBER 2018
MC-2-19
SHEET 3 OF 32

CAD FILE PATH: CADD_FILE_PATH
PLOT DATE: DATE

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ORIGINAL SHEET - ARCH E1

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TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KB	MN	KB	2025.01.09

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
GENERAL NOTES

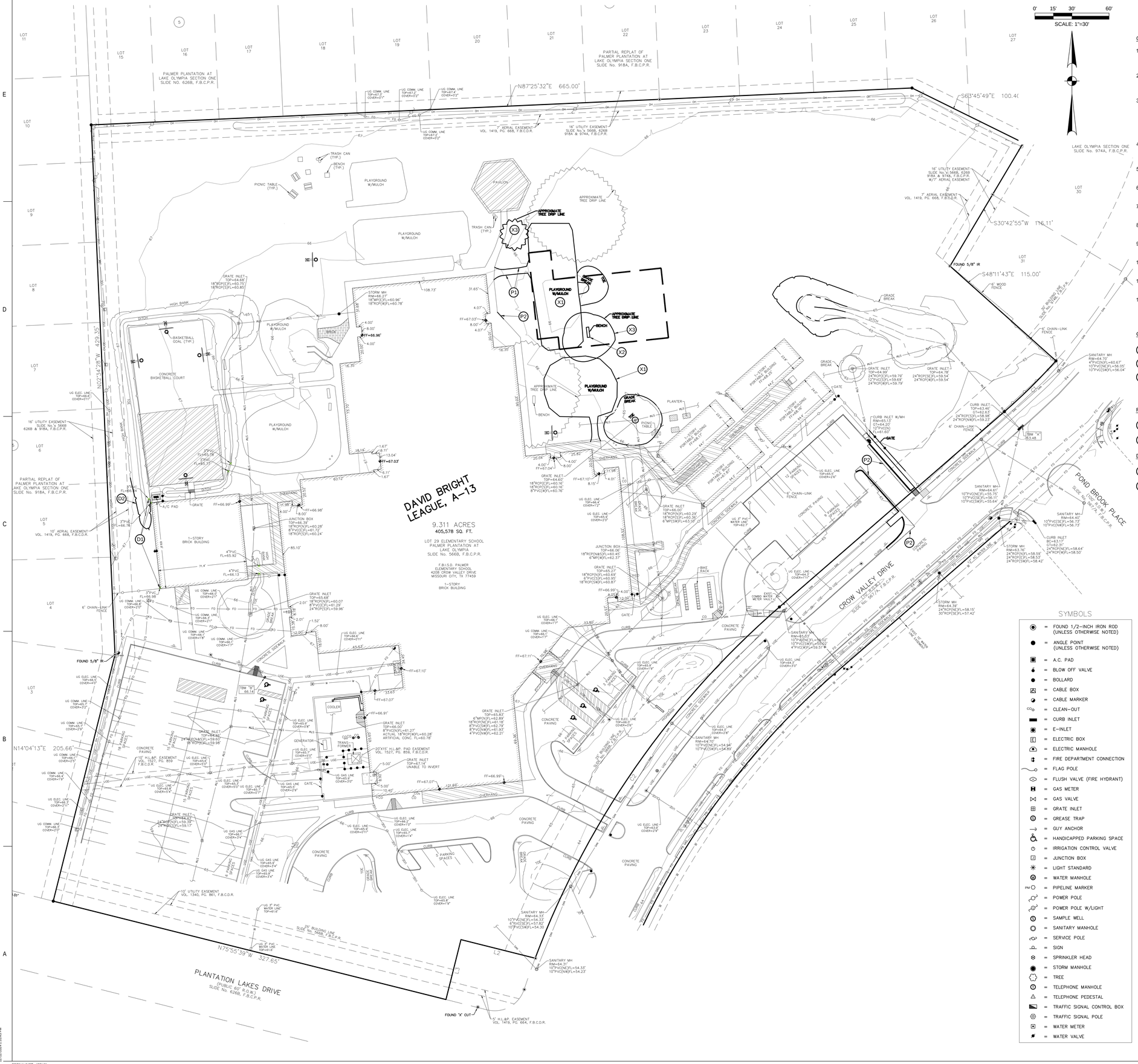
Project No.
C24-052-00

Scale

Revision

Drawing No.

C001 - PES



LEGEND

PROPOSED BUILDING LIMITS

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.

GENERAL DEMOLITION KEY NOTES:

- (X1) EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED AND RELOCATED.
- (X2) EXISTING BENCH TO BE REMOVED.
- (X3) EXISTING TREE TO BE REMOVED.

PAVING DEMOLITION KEY NOTES:

- (P1) EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- (P2) SAWCUT EXISTING CONCRETE PAVEMENT.

DRAINAGE DEMOLITION KEY NOTES:

- (D1) EXISTING STORM SEWER TO BE REMOVED.
- (D2) CONTRACTOR SHALL DRAIN, STRIP AND DEMUCK EXISTING SWALE PRIOR TO PLACING FILL. SWALE SHALL BE FILLED WITH STRUCTURAL FILL MATERIAL PLACED AND COMPACTED PER GEOTECHNICAL REPORT.

SAWCUT NOTES:

1. SAWCUT 2" MINIMUM DEPTH, EXPOSE AND CLEAN EXISTING REINFORCING STEEL.
2. IF NO REINFORCING STEEL EXISTS, #5 HORIZONTAL DOWELS, 24" LONG, GRADE 60, SHALL BE DRILLED AND EMBEDDED 12" INTO THE CENTER OF EXISTING CONCRETE WITH EPOXY.
3. ALL REINFORCING STEEL SHALL BE PLACED 3" CLEAR (2" ABSOLUTE MINIMUM) FROM EDGE OF CONCRETE.

SYMBOLS

- = FOUND 1/2-INCH IRON ROD (UNLESS OTHERWISE NOTED)
- = ANGLE POINT (UNLESS OTHERWISE NOTED)
- = A.C. PAD
- = BLOW OFF VALVE
- = BOLLARD
- = CABLE BOX
- = CABLE MARKER
- = CLEAN-OUT
- = CURB INLET
- = E-INLET
- = ELECTRIC BOX
- = ELECTRIC MANHOLE
- = FIRE DEPARTMENT CONNECTION
- = FLAG POLE
- = FLUSH VALVE (FIRE HYDRANT)
- = GAS METER
- = GAS VALVE
- = GRATE INLET
- = GREASE TRAP
- = GUY ANCHOR
- = HANDICAPPED PARKING SPACE
- = IRRIGATION CONTROL VALVE
- = JUNCTION BOX
- = LIGHT STANDARD
- = WATER MANHOLE
- PM = PIPELINE MARKER
- = POWER POLE
- = POWER POLE W/LIGHT
- = SAMPLE WELL
- = SANITARY MANHOLE
- = SERVICE POLE
- = SIGN
- = SPRINKLER HEAD
- = STORM MANHOLE
- = TREE
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL CONTROL BOX
- = TRAFFIC SIGNAL POLE
- = WATER METER
- = WATER VALVE

LEGEND

AC.	= ACRE
A.E.	= AERIAL EASEMENT
B.L.	= BUILDING LINE
CHB	= CHORD BEARING
CHD	= CHORD LENGTH
D.E.	= DRAINAGE EASEMENT
ESMT.	= EASEMENT
F.B.C.C.F.	= FORT BEND COUNTY CLERK'S FILE
F.B.C.D.D.	= FORT BEND COUNTY DRAINAGE DISTRICT
F.B.C.D.R.	= FORT BEND COUNTY DEED RECORDS
F.B.C.P.R.	= FORT BEND COUNTY PLAT RECORDS
L	= LENGTH
L.E.	= LANDSCAPE EASEMENT
LTD.	= LIMITED
No.	= NUMBER
NR	= NON-RADIAL
P.U.E.	= PUBLIC UTILITY EASEMENT
PVT.	= PRIVATE
S.F.	= SQUARE FEET
SAN.S.E.	= SANITARY SEWER EASEMENT
STM.S.E.	= STORM SEWER EASEMENT
U.E.	= UTILITY EASEMENT
W.L.E.	= WATER LINE EASEMENT
P.O.B.	= POINT OF BEGINNING
I.R.	= IRON ROD
I.P.	= IRON PIPE
H.L.&P.	= HOUSTON LIGHTING AND POWER

LINE TYPES

- = BARBED-WIRE FENCE
- = WOOD FENCE
- = CHAIN-LINK FENCE
- = WROUGHT IRON FENCE
- OHI = OVERHEAD ELECTRIC LINE
- UGE = UNDERGROUND ELECTRIC LINE
- GAS = UNDERGROUND GAS LINE
- FO = UNDERGROUND FIBER OPTIC LINE
- TEL = UNDERGROUND TELEPHONE LINE
- STM = UNDERGROUND STORM LINE
- = STORM LINE CULVERT
- SAN = UNDERGROUND SANITARY LINE
- W = UNDERGROUND WATER LINE
- = UNDERGROUND PIPELINE
- = CURB AND GUTTER LINE
- = EDGE OF CONCRETE
- = EDGE OF ASPHALT
- = EDGE OF GRAVEL
- = HIGH BANK LINE
- = GRADE BREAK LINE
- = TOE SLOPE LINE
- = TREE LINE

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TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

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File Name: N/A	KB Dwn.	MN Dsgn.	KB Chkd. 2025.01.09 YYYY.MM.DD

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
DEMOLITION PLAN

Project No.
C24-052-00

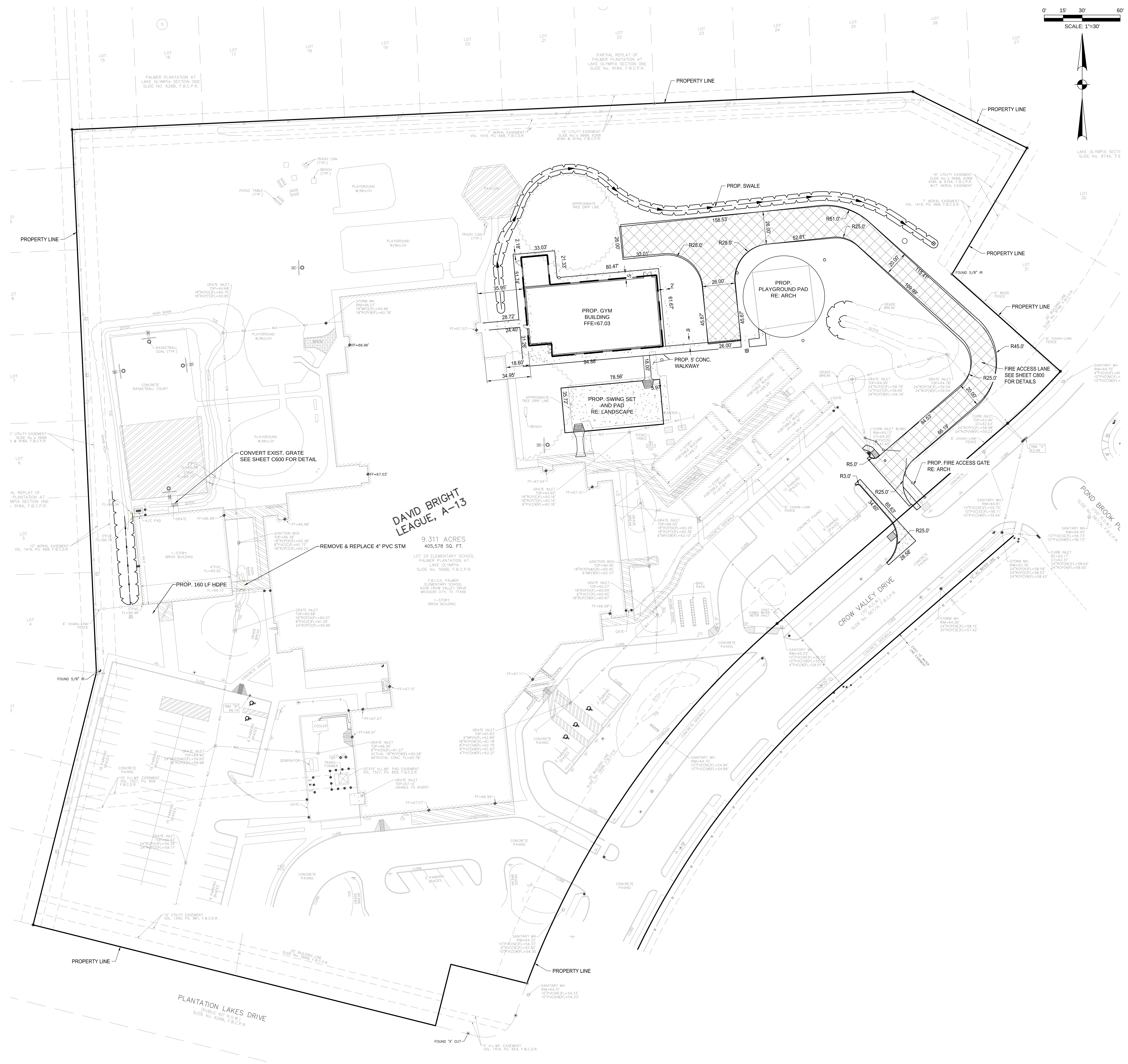
Scale

Revision

Drawing No.
C100 - PES

•Pick location in Project Information•
10/10/2024 1:33:43 PM

ORIGINAL SHEET - ARCH E1



LEGEND

- PROPOSED BUILDING LIMITS
- PROPOSED 5" CONCRETE PAVING
- PROPOSED 7" CONCRETE PAVING (10,893 SF) - FIRE LANE

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90904
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09/24/2025

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Client/Project
FORT BEND ISD

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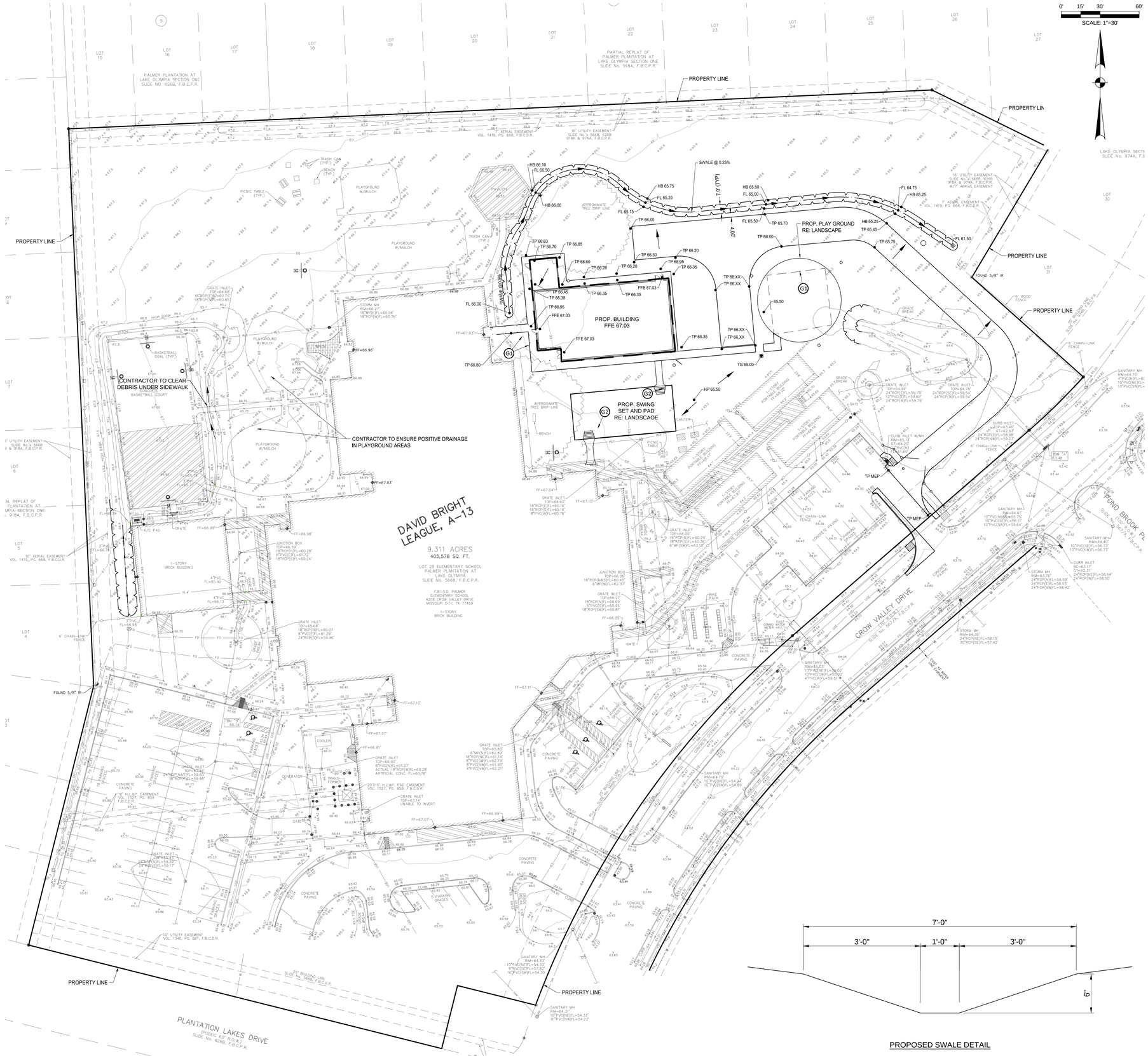
Title
LAYOUT & PAVING PLAN

Project No.
C24-052-00

Scale

Revision

Drawing No.
C200 - PES



PROPOSED SWALE DETAIL

LEGEND

EL	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FL	FLOW LINE
HB	HIGH BANK
HP	HIGH POINT
MEG	MATCH EXISTING GRADE
MEP	MATCH EXISTING PAVEMENT
MEC	MATCH EXISTING CURB
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
+x.x	Existing Grade
TP XX.XX	PROPOSED GRADE
	GRADE TO DRAIN

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12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.

GRADING KEY NOTES:

G1 PROPOSED CANOPY. RE: ARCH.

G2 RAMP DOWN TO PLAYGROUND @ 1:12 MAX.

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4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
GRADING PLAN

Project No.
C24-052-00

Scale

Revision

Drawing No.

C300 - PES

<Pro location> Project Information>
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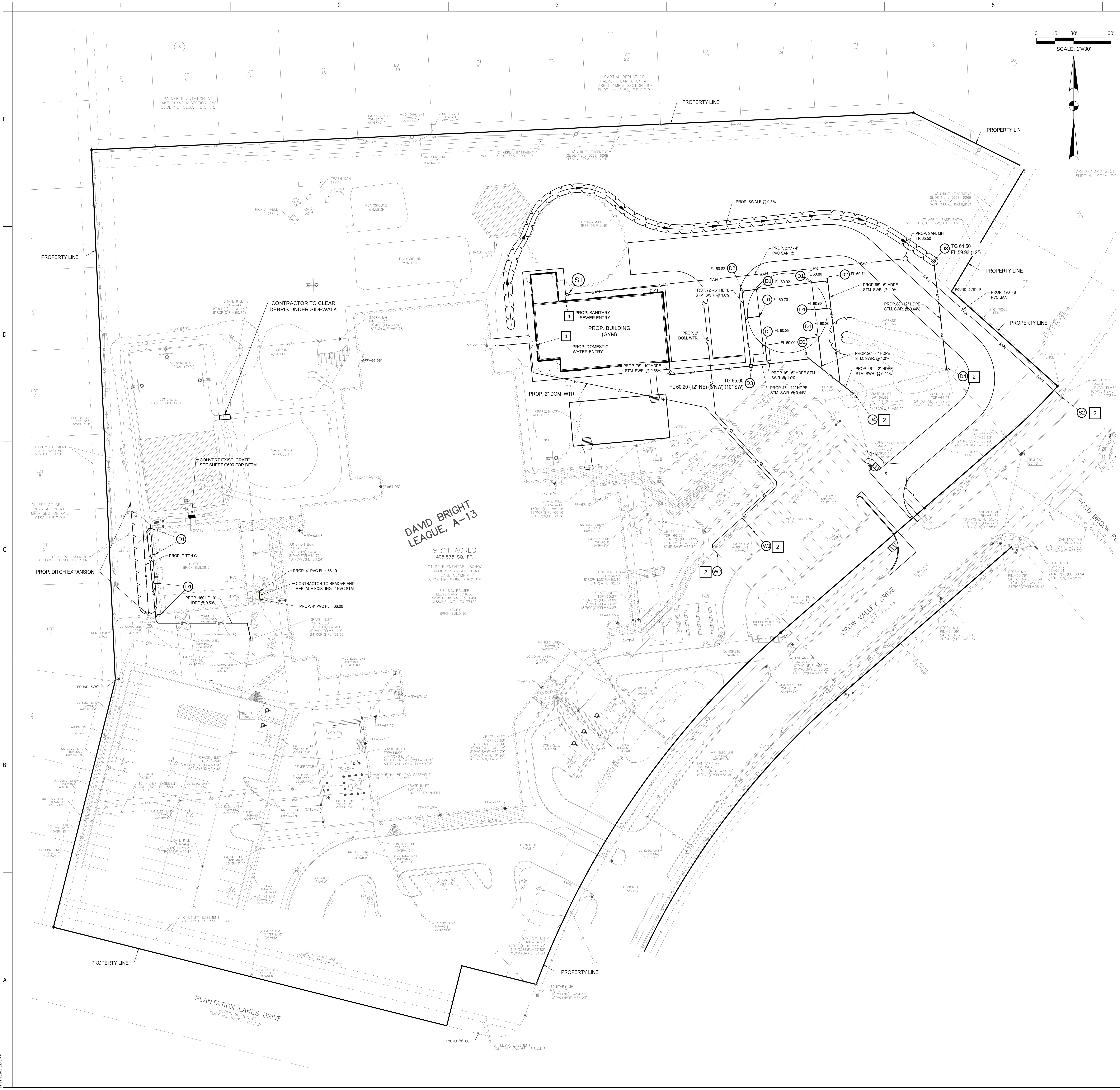
ORIGINAL SHEET - ARCH E1



LEGEND

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3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
13. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.
14. DOMESTIC WATER LINES LESS THAN 4" IN DIAMETER SHALL BE SCH 40 PVC AND HAVE A MINIMUM COVER OF 2 FEET. DOMESTIC WATER LINES 4" DIAMETER AND LARGER SHALL BE AWWA C-900 DR 18 PVC AND HAVE A MINIMUM COVER OF 4 FEET.
15. FIRE WATER SERVICE SHALL BE C-900 SELF-EXTINGUISHING PVC PIPE THAT BEARS UNDERWRITERS' LABORATORIES MARK OF APPROVAL AND IS ACCEPTABLE WITHOUT PENALTY TO TEXAS STATE FIRE INSURANCE COMMITTEE AND HAVE A MINIMUM COVER OF 4 FEET.
16. SANITARY SEWER PIPE SIZES 6 INCHES AND SMALLER SHALL BE PVC SCHEDULE 40, AND PIPE SIZES 8 INCHES OR LARGER MAY BE SDR 26.
17. ALL STORM AND SANITARY SEWER CLEANOUTS SHALL HAVE TRAFFIC-RATED LIDS. CLEANOUTS LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE 18" DIAMETER X 6" THICK REINFORCED CONCRETE PAD WITH TOP OF PAD MATCHING FINISHED GRADE.

GENERAL UTILITY KEY NOTES:

1 REFER TO MEP PLANS FOR CONTINUATION.

2 FIELD VERIFY EXISTING UTILITY LOCATION, SIZE AND DEPTH BEFORE CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

DRAINAGE KEY NOTES:

D1 PROPOSED 6" HDPE ROOF DRAIN @ 1.00%.

D2 PROPOSED STORM SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.

D3 PROPOSED TYPE "A" INLET.

D4 CONNECT PROPOSED STORM SEWER TO EXISTING STORM STRUCTURE. MATCH EXISTING FLOWLINE. SEAL WALL PENETRATIONS USING AHJ APPROVED WATER STOP AND NON-SHRINK GROUT.

SANITARY SEWER KEY NOTES:

S1 PROPOSED SANITARY SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.

S2 CONNECT PROPOSED 8" SANITARY SERVICE CONNECTION TO EXISTING SANITARY MANHOLE. SEAL WALL PENETRATIONS USING AHJ APPROVED WATER STOP AND GROUT.

WATER KEY NOTES:

W1 CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 3" WATER LINE. CONNECT PROPOSED 2" WATER LINE TO EXISTING 3" WATER LINE. SEAL WALL PENETRATIONS USING APPROVED WATER STOP AND NON-SHRINK GROUT.

W2 CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 6" WATER LINE. CONNECT PROPOSED 6" WATER LINE TO EXISTING WATER LINE. SEAL WALL PENETRATIONS USING APPROVED WATER STOP AND NON-SHRINK GROUT.

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TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KB	MN	KB	2025.01.09

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
UTILITY PLAN

Project No.
C24-052-00

Scale

Revision

Drawing No.

C400 - PES

ORIGINAL SHEET - ARCH E1

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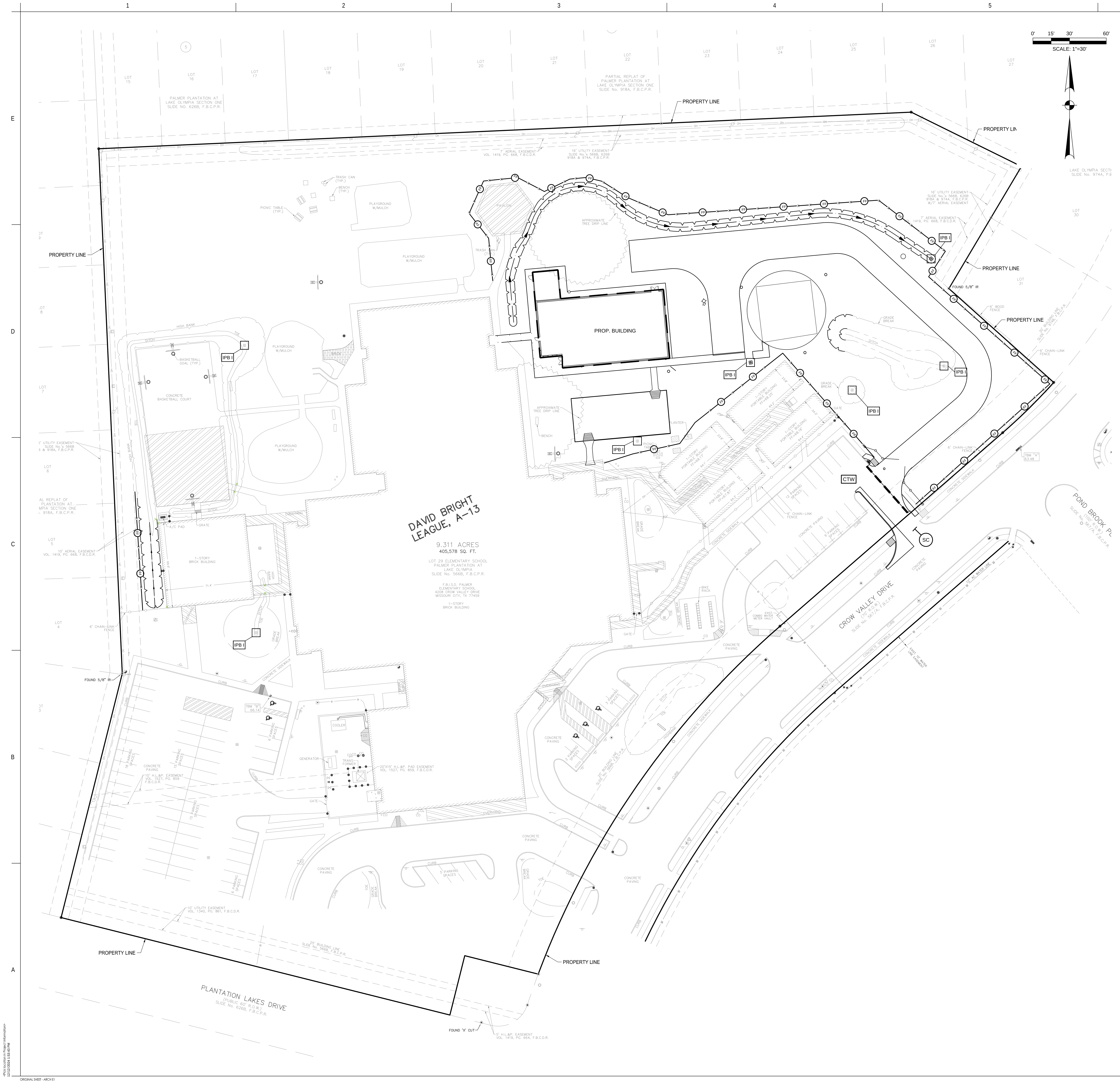

LEGEND

	PROPOSED BUILDING LIMITS
IPB I	INLET PROTECTION BARRIER (STAGE 1)
IPB II	INLET PROTECTION BARRIER (STAGE 2)
FF	FILTER FABRIC FENCE
SC	STABILIZED CONSTRUCTION ACCESS
CTW	CONCRETE TRUCK WASHOUT
	SILT SOCK

GENERAL CONSTRUCTION NOTES

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
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5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
6. ALL DISTURBED AREAS SHALL BE SODDED UPON COMPLETION IF NOT TO BE PAVED OR LANDSCAPED.
7. CONTRACTOR SHALL UTILIZE TEMPORARY EROSION CONTROL MAT OR EQUAL DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ENSURING WATER QUALITY CONTROLS MEET TCEQ STANDARDS.

SWPPP CONSTRUCTION NOTES :

1. ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.
2. APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.
3. ALL EROSION CONTROL MEASURES SHALL BE CLEANED AFTER EVERY RAIN.
4. CONTRACTOR SHALL ENTER AND EXIT SITE FROM EXISTING DRIVEWAY.

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Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
SWPPP

Project No.
C24-052-00

Scale

Revision

Drawing No.

C500 - PES

ORIGINAL SHEET - ARCH E1

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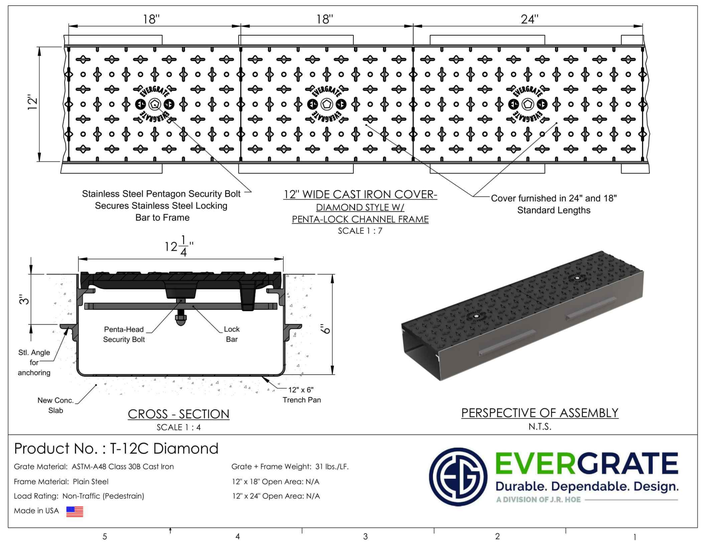


CROSS - SECTION
SCALE 1 : 4

PERSPECTIVE OF ASSEMBLY
N.T.S.

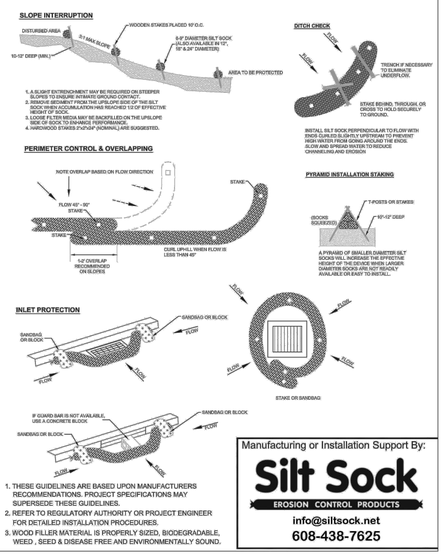
Product No. : T-12C Diamond

Grate Material: ASTM-A48 Class 30B Cast Iron
Frame Material: Plain Steel
Load Rating: Non-Traffic (Pedestrian)
Made in USA

Grate + Frame Weight: 31 lbs./LF.
12" x 18" Open Area: N/A
12" x 24" Open Area: N/A

EVERGRATE
Durable. Dependable. Design.
A DIVISION OF J.R. HOE

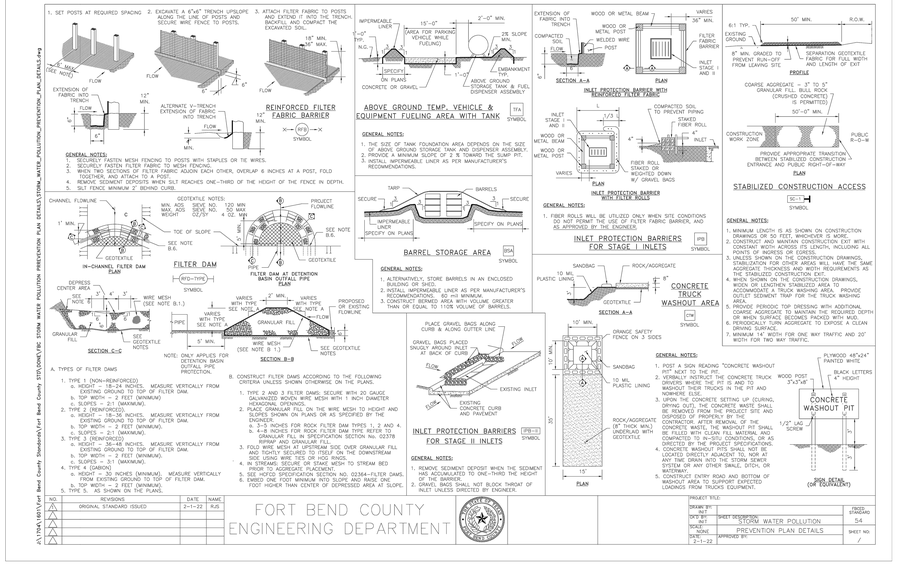
SILT SOCK INSTALLATION GUIDELINES



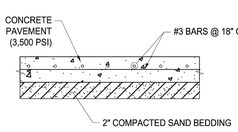
1. THESE GUIDELINES ARE BASED UPON MANUFACTURERS RECOMMENDATIONS. PROJECT SPECIFICATIONS MAY SUPERSEDE THESE GUIDELINES.
2. REFER TO REGULATORY AUTHORITY OR PROJECT ENGINEER FOR DETAILED INSTALLATION PROCEDURES.
3. WOOD FILLER MATERIAL IS PROPERLY SIZED, BIODEGRADABLE, WEED , SEED & DISEASE FREE AND ENVIRONMENTALLY SOUND.

Manufacturing or Installation Support By:

Silt Sock
EROSION CONTROL PRODUCTS
info@siltsock.net
608-438-7625



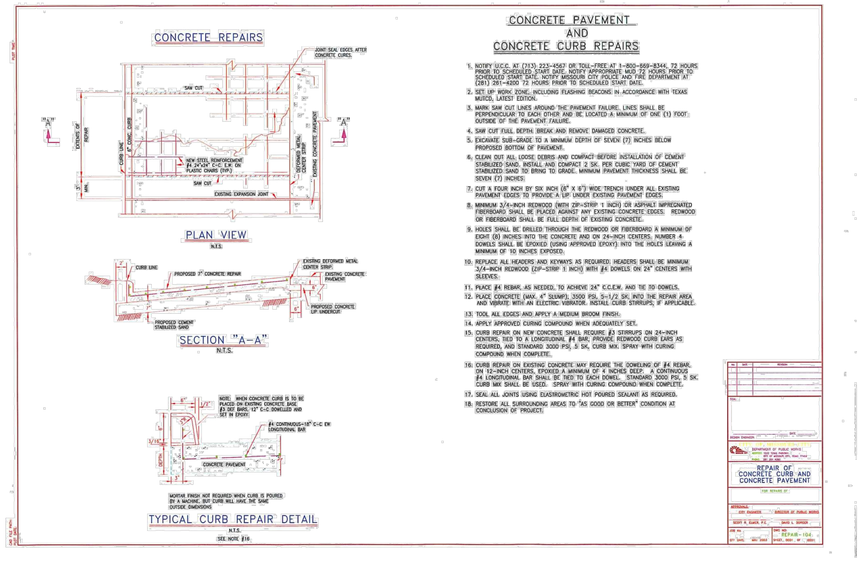
CONCRETE SIDEWALK



N.T.S.

PAVING NOTES:

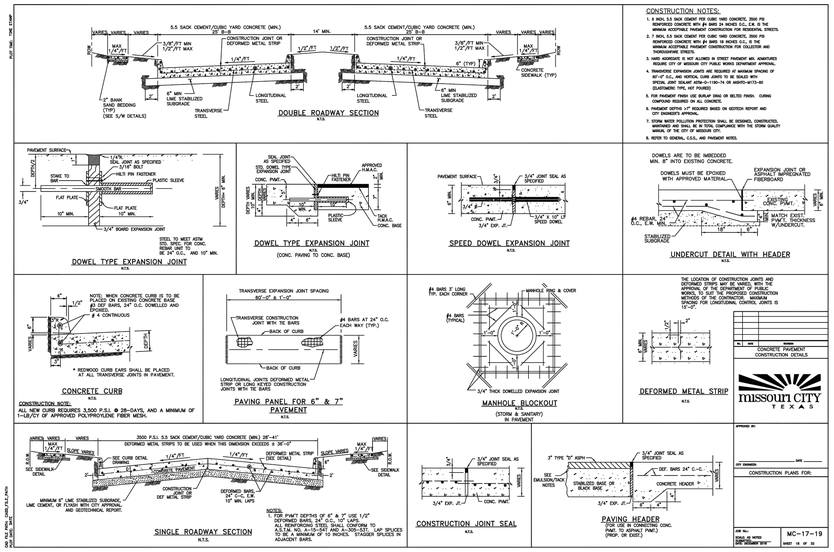
1. SEE GEOTECHNICAL INVESTIGATION REPORT NUMBER G103-25B (FINAL REVISION 1) FOR FORT BEND INDEPENDENT SCHOOL DISTRICT, BP022 - GYM RENOVATIONS AND ADDITIONS, PALMER ELEMENTARY SCHOOL BY AVILES ENGINEERING CORPORATION DATED AUGUST 2025.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS AND A MINIMUM FLEXURAL STRENGTH OF 500 PSI AT 7 DAYS AND 600 PSI AT 28 DAYS.
3. PROVIDE 6" MINIMUM STABILIZED SUBGRADE WITH A MINIMUM OF 7 PERCENT HYDRATED LIME BY DRY SOIL WEIGHT AS PER GEOTECHNICAL REQUIREMENTS. LABRATORY TESTING SHOULD BE PERFORMED TO DETERMINE THE OPTIMUM LIME CONTENT. SUBGRADE SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE PAVED AREA.
4. FIRE LANE PAVING SHALL BE 7" THICK WITH #4 AT 18" ON CENTER EACH WAY.



CONCRETE PAVEMENT AND CONCRETE CURB REPAIRS

1. NOTIFY U.C.O. AT (713) 223-4567 OR TOLL-FREE AT 1-800-669-8344, 72 HOURS PRIOR TO SCHEDULED START DATE. NOTIFY APPROPRIATE MUD 72 HOURS PRIOR TO SCHEDULED START DATE. NOTIFY MISSOURI CITY POLICE AND FIRE DEPARTMENT AT (281) 261-4200 72 HOURS PRIOR TO SCHEDULED START DATE.
2. SET UP WORK ZONE, INCLUDING FLAGMAN BEACONS, IN ACCORDANCE WITH TEXAS MUTCD, LATEST EDITION.
3. MARK SAW CUT LINES AROUND THE PAVEMENT FAILURE. LINES SHALL BE PERPENDICULAR TO EACH OTHER AND BE LOCATED A MINIMUM OF ONE (1) FOOT OUTSIDE OF THE PAVEMENT FAILURE.
4. SAW CUT FULL DEPTH, BREAK AND REMOVE DAMAGED CONCRETE.
5. EXCAVATE SUB-GRADE TO A MINIMUM DEPTH OF SEVEN (7) INCHES BELOW PROPOSED BOTTOM OF PAVEMENT.
6. CLEAN OUT ALL LOOSE DEBRIS AND COMPACT BEFORE INSTALLATION OF CEMENT STABILIZED SAND. INSTALL AND COMPACT 2 SK. PER CUBIC YARD OF CEMENT STABILIZED SAND TO BRING TO GRADE. MINIMUM PAVEMENT THICKNESS SHALL BE SEVEN (7) INCHES.
7. CUT A FOUR INCH BY SIX INCH (6" X 4") WIDE TRENCH UNDER ALL EXISTING PAVEMENT EDGES TO PROVIDE A LIP UNDER EXISTING PAVEMENT EDGES.
8. MINIMUM 3/4-INCH REDWOOD (WITH ZIP-STRIP 1 INCH) OR ASPHALT IMPREGNATED FIBERBOARD SHALL BE PLACED AGAINST ANY EXISTING CONCRETE EDGES. REDWOOD OR FIBERBOARD SHALL BE FULL DEPTH OF EXISTING CONCRETE.
9. HOLES SHALL BE DRILLED THROUGH THE REDWOOD OR FIBERBOARD A MINIMUM OF EIGHT (8) INCHES INTO THE CONCRETE AND ON 24-INCH CENTERS. NUMBER 4 DOWELS SHALL BE EPOXIED (USING APPROVED EPOXY) INTO THE HOLES LEAVING A MINIMUM OF 10 INCHES EXPOSED.
10. REPLACE ALL HEADERS AND KEYWAYS AS REQUIRED. HEADERS SHALL BE MINIMUM 3/4-INCH REDWOOD (ZIP-STRIP 1 INCH) WITH #4 DOWELS ON 24" CENTERS WITH SLEEVES.
11. PLACE #4 REBAR, AS NEEDED, TO ACHIEVE 24" C.C.E.W. AND TIE TO DOWELS.
12. PLACE CONCRETE (MAX. 4" SLUMP), 3500 PSI, S=1/2 SK. INTO THE REPAIR AREA AND VIBRATE WITH AN ELECTRIC VIBRATOR. INSTALL CURB STIRRUPS, IF APPLICABLE.
13. TOOL ALL EDGES AND APPLY A MEDIUM BROOM FINISH.
14. APPLY APPROVED CURING COMPOUND WHEN ADEQUATELY SET.
15. CURB REPAIR ON NEW CONCRETE SHALL REQUIRE #3 STIRRUPS ON 24-INCH CENTERS, TIED TO A LONGITUDINAL #4 BAR. PROVIDE REDWOOD CURB EARS AS REQUIRED, AND STANDARD 3000 PSI, 5 SK, CURB MIX. SPRAY WITH CURING COMPOUND WHEN COMPLETE.
16. CURB REPAIR ON EXISTING CONCRETE MAY REQUIRE THE DOWELING OF #4 REBAR, ON 12-INCH CENTERS, EPOXIED A MINIMUM OF 4 INCHES DEEP. A CONTINUOUS #4 LONGITUDINAL BAR SHALL BE TIED TO EACH DOWEL. STANDARD 3000 PSI, 5 SK. CURB MIX SHALL BE USED. SPRAY WITH CURING COMPOUND WHEN COMPLETE.
17. SEAL ALL JOINTS USING ELASTOMERIC HOT POURED SEALANT AS REQUIRED.
18. RESTORE ALL SURROUNDING AREAS TO "AS GOOD OR BETTER" CONDITION AT CONCLUSION OF PROJECT.

REPAIR OF CONCRETE CURB AND CONCRETE PAVEMENT
FOR REPAIR AT:
APPROVED:
DEPARTMENT OF PUBLIC WORKS
CITY OF MISSOURI CITY, TEXAS
DEPARTMENT OF PUBLIC WORKS
SCOTT A. ELMER, P.E. DAVID L. SCHOOR
JOB NO.: DATE: MAY 1998
SCALE: NONE
DRAWN: MAY 1998 CHKD: PROF.: AP / MMC
REPAIR-104



CONSTRUCTION NOTES:

1. 5 MIN. 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS ON MAINS S.C., E.W. @ THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR RESIDENTIAL STREETS.
2. 6 MIN. 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #5 BARS ON MAINS S.C., E.W. @ THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR AND THOROUGHFARE STREETS.
3. HARD AGGREGATE IS NOT ALLOWED IN STREET PAVEMENT MIX. ADMIXTURES REQUIRE CITY OF MISSOURI CITY PUBLIC WORKS DEPARTMENT APPROVAL.
4. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 60'-0" AND AT ALL POINTS OF CURVATURE. SEE DETAILS ON THIS SHEET, SPECIAL JOINT DETAILS AT ACM-15-1180-14-18 AND/OR AT72-00 (QUARTERING TYPE) NOT PERMITTED.
5. FOR PAVEMENT FINISH USE BURLAP DRAG OR BELTED FINISH. CURING COMPOUND REQUIRED ON ALL CONCRETE.
6. PAVEMENT DEPTHS 1/4" REQUIRED BASED ON GEOTECH REPORT AND CITY ENGINEER'S APPROVAL.
7. SIGNS AND BARRICADES IN CONSTRUCTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND REMOVED IN THE TOTAL COMPLIANCE WITH THE STORM QUALITY MANUAL OF THE CITY OF MISSOURI CITY.
8. REFER TO GENERAL, U.S.S., AND PAVEMENT NOTES.

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D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD

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File Name: N/A	KB Dwn.	MN Dsgn.	KB Chkd. 2025.01.09 YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
DETAILS (1 OF 2)

Project No.	Scale
C24-052-00	
Revision	Drawing No.
	C600 - PES

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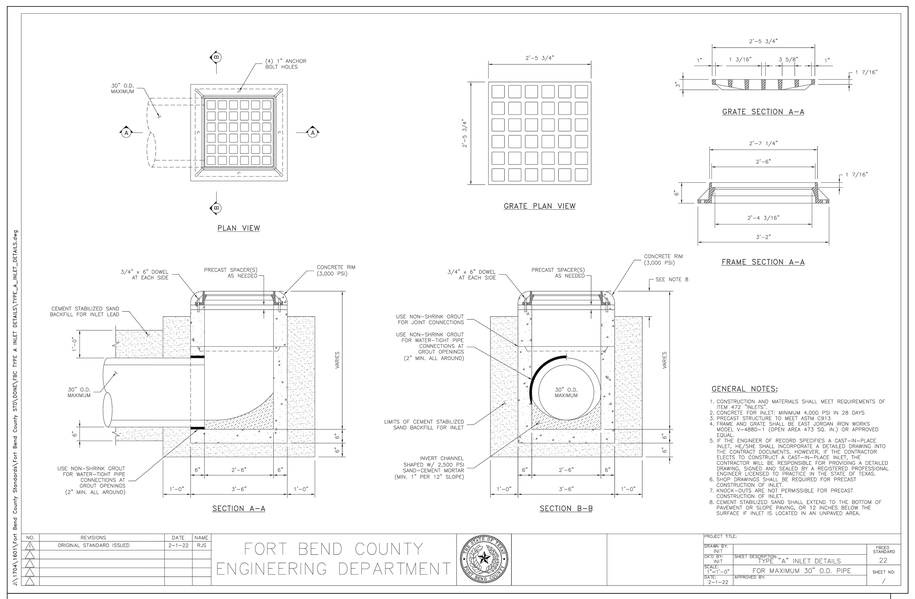

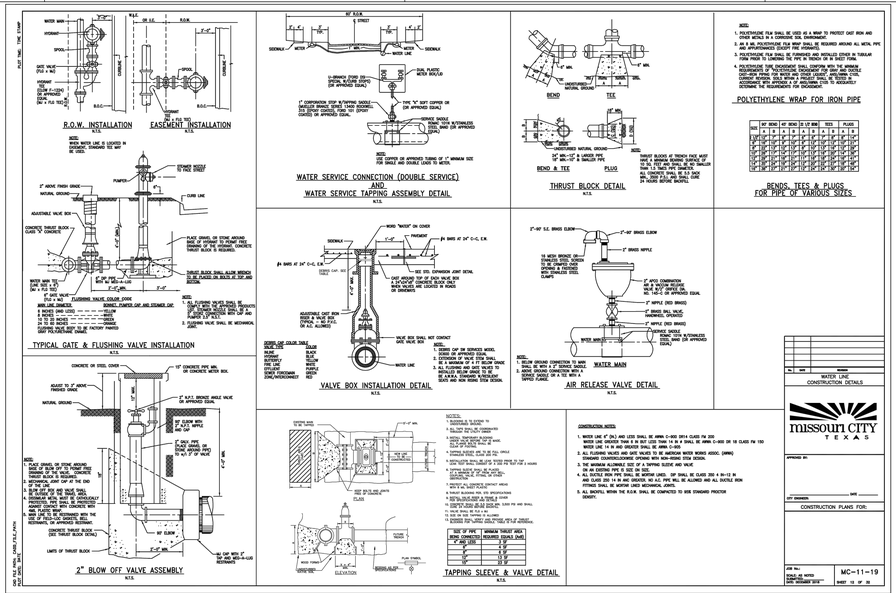

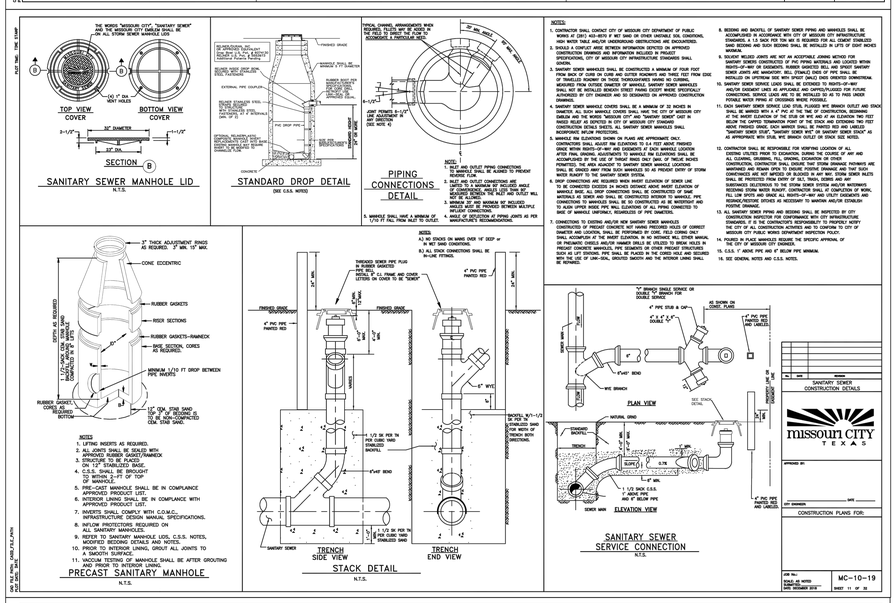

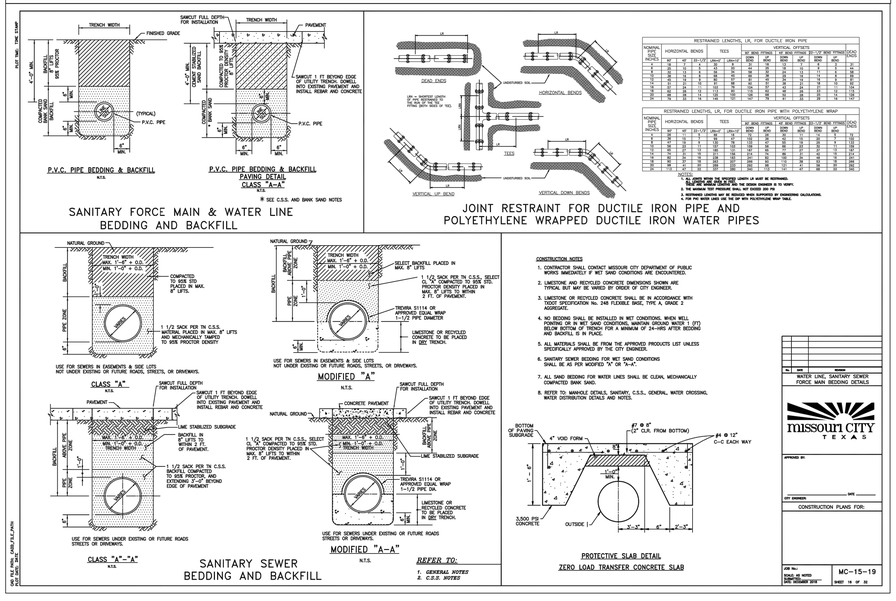

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D + A PROJECT No. C24-052-00

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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

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BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
DETAILS (2 OF 2)

Project No.	Scale
C24-052-00	
Revision	Drawing No.

C700 - PES

Plot location in Project Information
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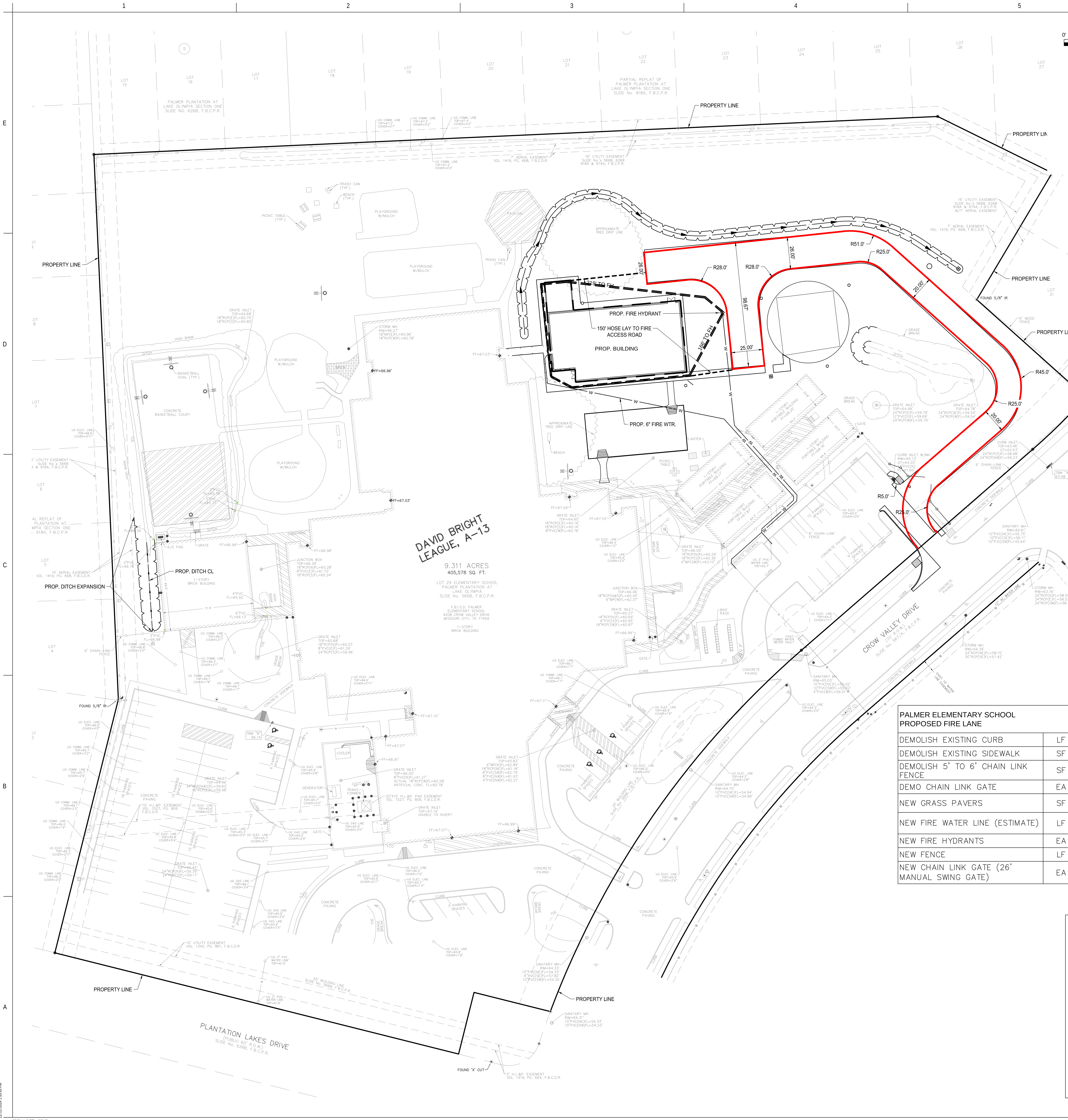

LEGEND

- PROPOSED BUILDING LIMITS
- HOSE LAY
- PROPERTY LINE
- PROPOSED FIRE LANE
- FIRE TRUCK LOCATION

WHITE REFLECTIVE LETTERING — FIRE LANE - TOW AWAY ZONE — RED BACKGROUND (4", 6", 3/4")

A. PROVIDE FIRE LANE STRIPPING PER LOCAL JURISDICTION.

B. FIRE DEPARTMENT ACCESS LANE SITE CONCRETE PAVING TO BE CAPABLE OF WITHSTANDING 75,000 LBS UNDER ALL WEATHER CONDITIONS.

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2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
13. FIRE WATER SERVICE SHALL BE C-900 SELF-EXTINGUISHING PVC PIPE THAT BEARS UNDERWRITERS' LABORATORIES MARK OF APPROVAL AND IS ACCEPTABLE WITHOUT PENALTY TO TEXAS STATE FIRE INSURANCE COMMITTEE AND HAVE A MINIMUM COVER OF 4 FEET.

FIRE ACCESS NOTES:

1. POSTING OF FIRE LANES IS REQUIRED. FIRELANE SHALL BE INDICATED WITH PAINTED 6" RED STRIPES ON BOTH SIDES OF THE LANE WITH "FIRE LANE - NO PARKING - TOW AWAY ZONE" WRITTEN WITH 4" LETTERS IN WHITE PAINT SPACED EVERY 50 FEET. SEE DETAIL ON THIS SHEET.
2. FIRE LANE SIGNS SHOULD BE PLACED EVERY 75 FEET ALONG ANY FIRE LANE WHERE PAVEMENT OR CURB STRIPING IS NOT PIRATICAL. SEE DETAIL ON THIS SHEET.
3. PROVIDE KNOX BOX AT MANUAL GATES PER MISSOURI CITY FIRE MARSHAL REQUIREMENTS.

WATER KEY NOTES:

(W1) CONNECT PROPOSED 6" FIRE WATER LINE TO EXISTING FIRE WATER LINE. SEAL WALL PENETRATIONS USING APPROVED WATER STOP AND NON-SHRINK GROUT.

PALMER ELEMENTARY SCHOOL PROPOSED FIRE LANE		PROPOSED FIRE LANE
DEMOLISH EXISTING CURB	LF	45
DEMOLISH EXISTING SIDEWALK	SF	45
DEMOLISH 5' TO 6' CHAIN LINK FENCE	SF	20
DEMO CHAIN LINK GATE	EA	1
NEW GRASS PAVERS	SF	11005
NEW FIRE WATER LINE (ESTIMATE)	LF	500
NEW FIRE HYDRANTS	EA	2
NEW FENCE	LF	20
NEW CHAIN LINK GATE (26' MANUAL SWING GATE)	EA	1

FIRE LANE SIGN:

NOTES:
1. AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGNS SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
2. THE MAXIMUM SPACING OF THE SIGNS SHALL BE 75', CONTINGENT UPON TRAFFIC ENGINEERING'S REVIEW AND APPROVAL.
3. THE SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAT 30° NOR MORE THAN 45° WITH THE CURB OR LINE OF TRAFFIC FLOW.
4. THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR SIGN POLE.
5. THE SIGN PLATE SHALL BE A MINIMUM OF 12" x 18" WITH A THICKNESS OF 0.80".

NOTE: USE ONLY WHERE STRIPING IS NOT PRACTICAL. SEE FIRE ACCESS NOTES ON THIS PAGE.

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D + A PROJECT No. C24-052-00

Notes

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF TEXAS — FRED DALLY — 90904 — LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR., MISSOURI CITY, TX 77459

Title
FIRE LANE PLAN

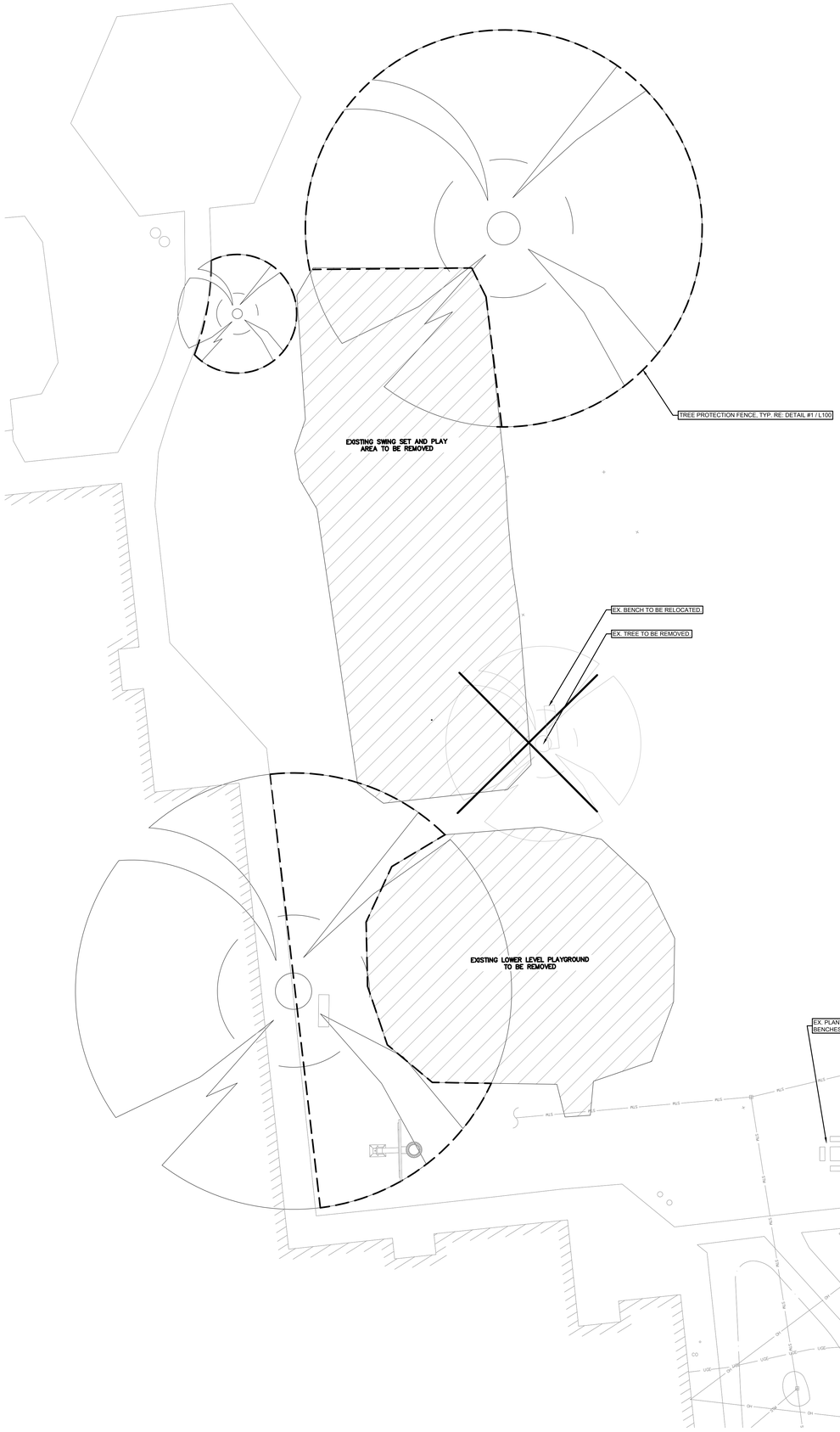
Project No. C24-052-00

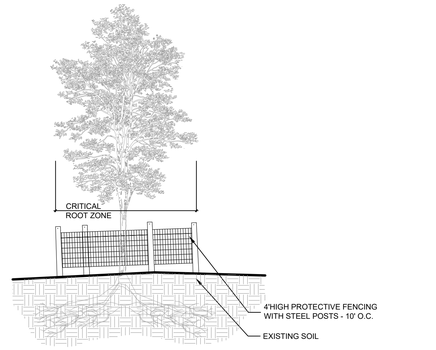
Scale

Revision

Drawing No.

C800 - PES





1 TREE PROTECTION DETAIL

NOT TO SCALE P-C0-P-06

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Permit/Seal

REGISTERED LANDSCAPE ARCHITECT ELIZABETH ANN MOSS 2642 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

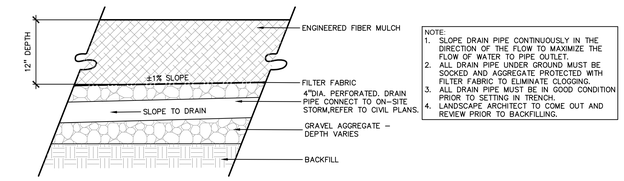
DEMOLITION PLAN

Project No.	Scale
214001246	1" = 10'-0"

Revision Sheet 1 of 6

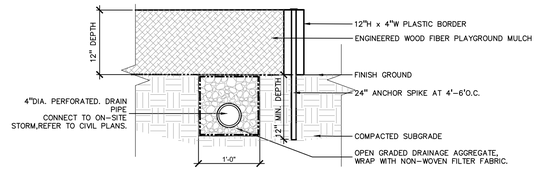
Drawing No. **L100-PES**

ORIGINAL SHEET - ARCH E1

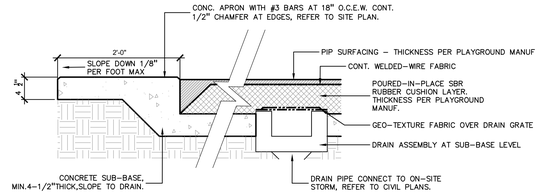


NOTE:
1. SLOPE DRAIN PIPE CONTINUOUSLY IN THE DIRECTION OF THE FLOW TO MAXIMIZE THE FLOW OF WATER TO PIPE OUTLET.
2. ALL DRAIN PIPE UNDER GROUND MUST BE SOCKED AND AGGREGATE PROTECTED WITH FILTER FABRIC TO ELIMINATE CLOGGING.
3. ALL DRAIN PIPE MUST BE IN GOOD CONDITION PRIOR TO SETTING IN TRENCH.
4. LANDSCAPE ARCHITECT TO COME OUT AND REVIEW PRIOR TO BACKFILLING.

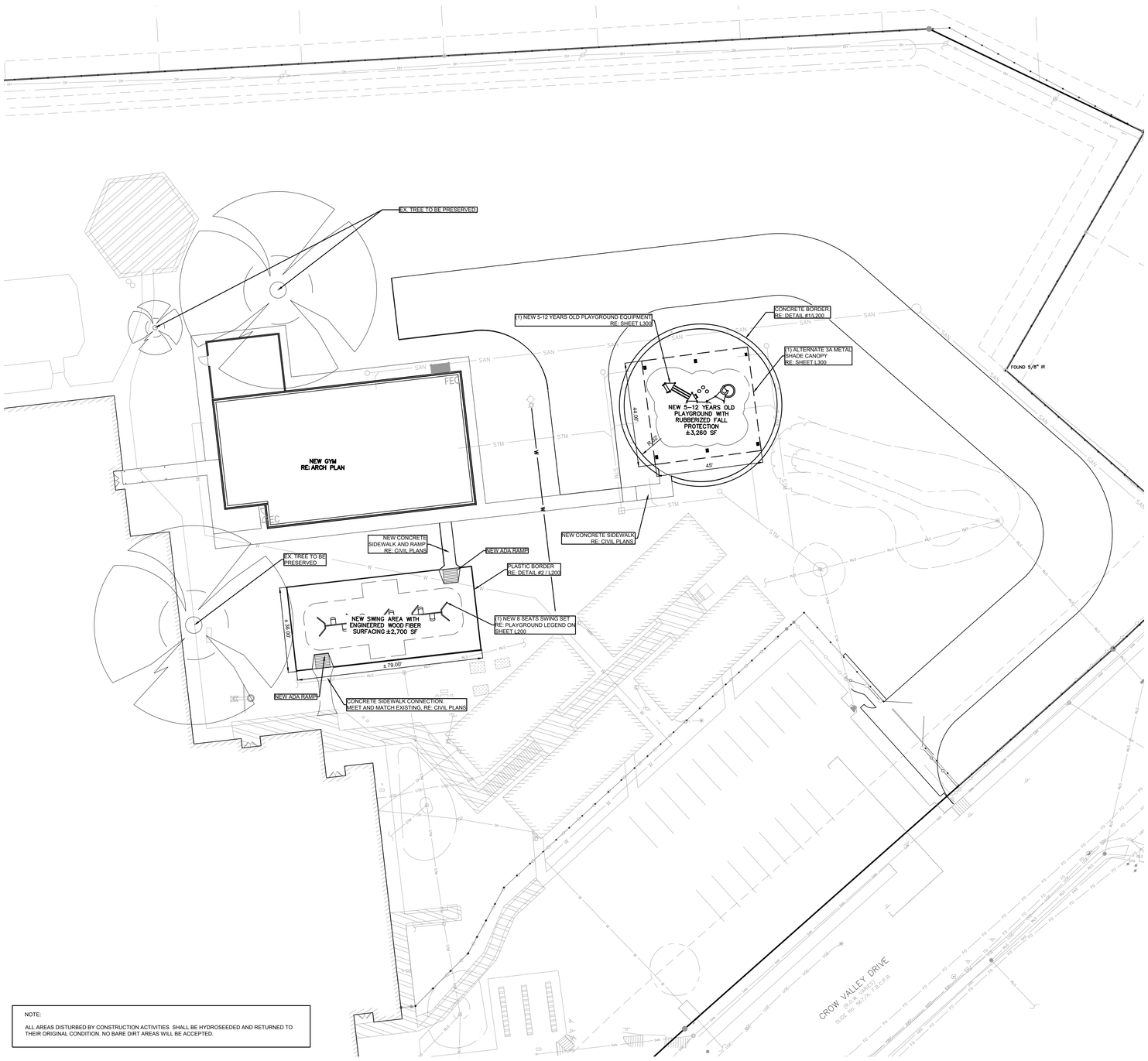
3 SITE DRAINAGE PIPE
SCALE: 1" = 1'-0"



2 ENGINEERED WOOD FIBER PLAYGROUND SURFACING DETAIL
SCALE: 1" = 1'-0"



1 POURED-IN-PLACE SURFACING DETAIL
SCALE: 1" = 1'-0"



NOTE:

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE HYDROSEEDED AND RETURNED TO THEIR ORIGINAL CONDITION. NO BARE DIRT AREAS WILL BE ACCEPTED.

PLAYGROUND LEGEND

NOTE: MUST MEET FBISD TDG AND TAS MINIMUM ACCESSIBLE ELEMENTS REQUIREMENTS.

PRODUCT	COMPONENT	ESTIMATED QUANTITY	DESCRIPTION
(1) 8 SEATS SWING SET	BELT SEAT	6	
	INCLUSIVE SEAT	2	
(1) PLAYGROUND STRUCTURE 5 -12 YEARS OLD MIN. CAPACITY: 75 STUDENTS	INTERACTIVE GAME PANEL	1	ENGAGING PLAY PANEL WITH LIGHT/SOUND/MEMORY GAME
	REACH PANEL (GENERAL)	1	INTERACTIVE PANEL ACCESSIBLE FROM GROUND LEVEL
	DOUBLE CHIMES MUSICAL PANEL	1	OUTDOOR PERCUSSION INSTRUMENT PANEL
	MELODY WHEEL MUSICAL PANEL	1	ROTATING MELODY WHEEL WITH CHIMES OR BELLS
	STEERING WHEEL PLAY PANEL (POST-MOUNTED)	1	PRETEND PLAY DRIVING WHEEL
	WINDOW PLAY PANEL	1	IMAGINATIVE PLAY PANEL WITH TRANSPARENT/OPEN SECTION.
	BRAILLE AND CLOCK PLAY PANEL	1	INCLUSIVE SENSORY PLAY PANEL WITH BRAILLE AND CLOCK FACE
	CHARACTER-THEME PLAY PANEL	1	THEME PANEL FOR PRETEND PLAY
	SCRAMBLED MUSICAL SCALES PANEL	1	
	PANEL REACH SILLY FACE	1	
	SINGLE WIDE PLASTIC SLIDE	1	STANDARD STRAIGHT SLIDE, WIDE ENOUGH FOR INCLUSIVE PLAY
	SPIRAL SLIDE	1	HELICAL SLIDE FROM ELEVATED DECK
	DOUBLE WIDE PLASTIC SLIDE	1	PARALLEL SLIDE LANES FOR RACING OR GROUP PLAY
	CURVED ELBOW SLIDE	1	SLIDE WITH A 90-DEGREE TURN
	SINGLE-STEP DECK PLATFORM	1	
	SEAT PANEL UNDER DECK	1	SOCIAL SEATING AREA BELOW PLATFORM
	CURVED BRIDGE, APPROX. 8 FT	1	
	ARCHED BRIDGE WITH SAFETY RAIL	1	
	VERTICAL RUNG LADDER, APPROX. 2 FT HIGH	1	
	VERTICAL RUNG LADDER, APPROX. 64" HIGH	1	
	CURVED CLIMBING POLE	1	FREESTANDING OR ATTACHED CURVED CLIMBING ELEMENT
	CURLY CLIMBER	1	
	STEPPING STONE	3	
	POST PLAYERS BELLS	1	
	POST PLAYERS DRUM	1	
	CONCERTO 2-CONGAS	1	
	WELCOME SIGN	1	
(1) 44' x 45' METAL SHADE CANOPY	INCLUDING: (4) HSS STEEL EDGE BEAM; (6) HSS STEEL RAFTER; (8) HSS STEEL PURLIN BEAM; (2) HSS STEEL RIDGE BEAM; (1) EXTRUDED ALUM. RIDGE CAP; (1) 24" WIDE INTERLOCKING "W" STYLE ROOF PANELS; (1) EXTRUDED ALUM. FASCIA TRIM; DRAINAGE DOWNSPOUT.		
POURED-IN-PLACE SURFACING	INCLUDING: RUBBER PARTICLES (Blend of recycled SBR and EPDM.); BINDER (Weather resistant, UV stabilized polyurethane.); PRIMER / ADHESIVE (Moisture-cured polyurethane primer.); LEVELING AND PATCHING MATERIAL (Portland-cement-based grout or epoxy/polyurethane formulation.).	±3,260 SF	
12" DEPTH ENGINEERED WOOD FIBER SURFACING		±2,700 SF	
12" HT. BLACK PLAYGROUND PLASTIC BORDER		±210 LF	

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REGISTERED LANDSCAPE ARCHITECT ELIZABETH AUSTIN 2692 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

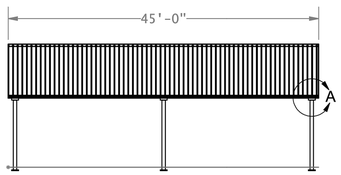
Client/Project
FORT BEND ISD

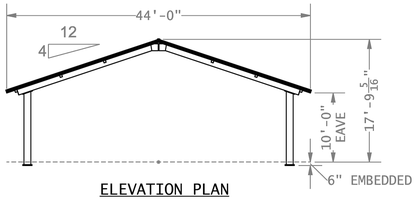
FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLAYGROUND PLAN

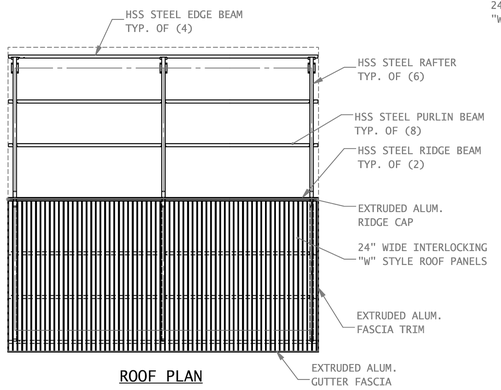
Project No. 214001246
Scale 1" = 20'-0"
Revision
Sheet 2 of 6
Drawing No. L200-PES

ORIGINAL SHEET - ARCH E1

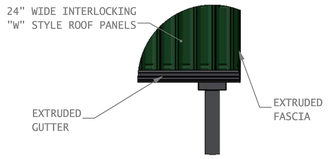




ELEVATION PLAN

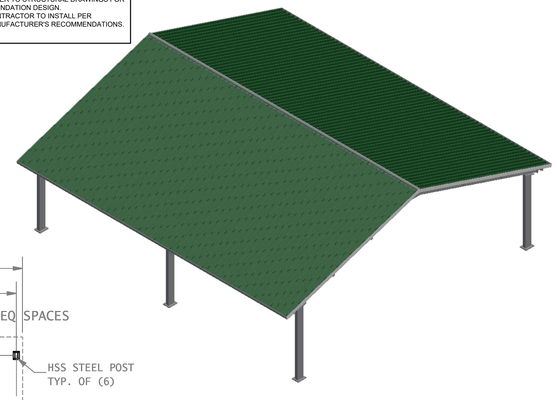


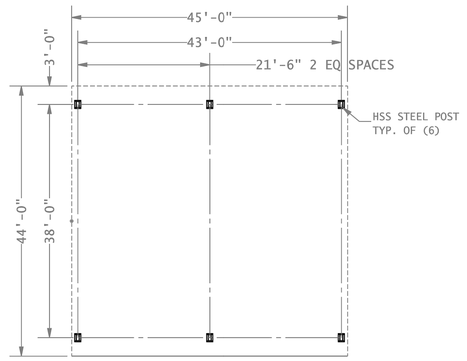
ROOF PLAN



NOTE:

REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION DESIGN. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

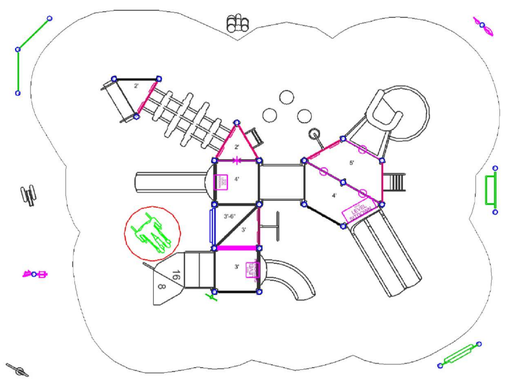




FOUNDATION PLAN

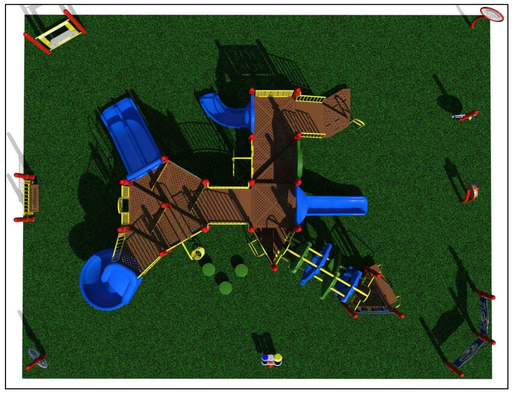
2 METAL SHADE CANOPY DETAILS (ALTERNATE 3A)

SCALE: 1" = 10'-0"



NOTE:

COLORS TO BE SELECTED BY OWNER. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



1 5-12 YEARS OLD PLAYGROUND STRUCTURE

NOT TO SCALE

ORIGINAL SHEET - ARCH E1

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT ELIZABETH AUDSTEN 2682 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLAYGROUND ENLARGEMENT

Project No.
214001246

Scale
VARIES

Revision Sheet
3 of 6

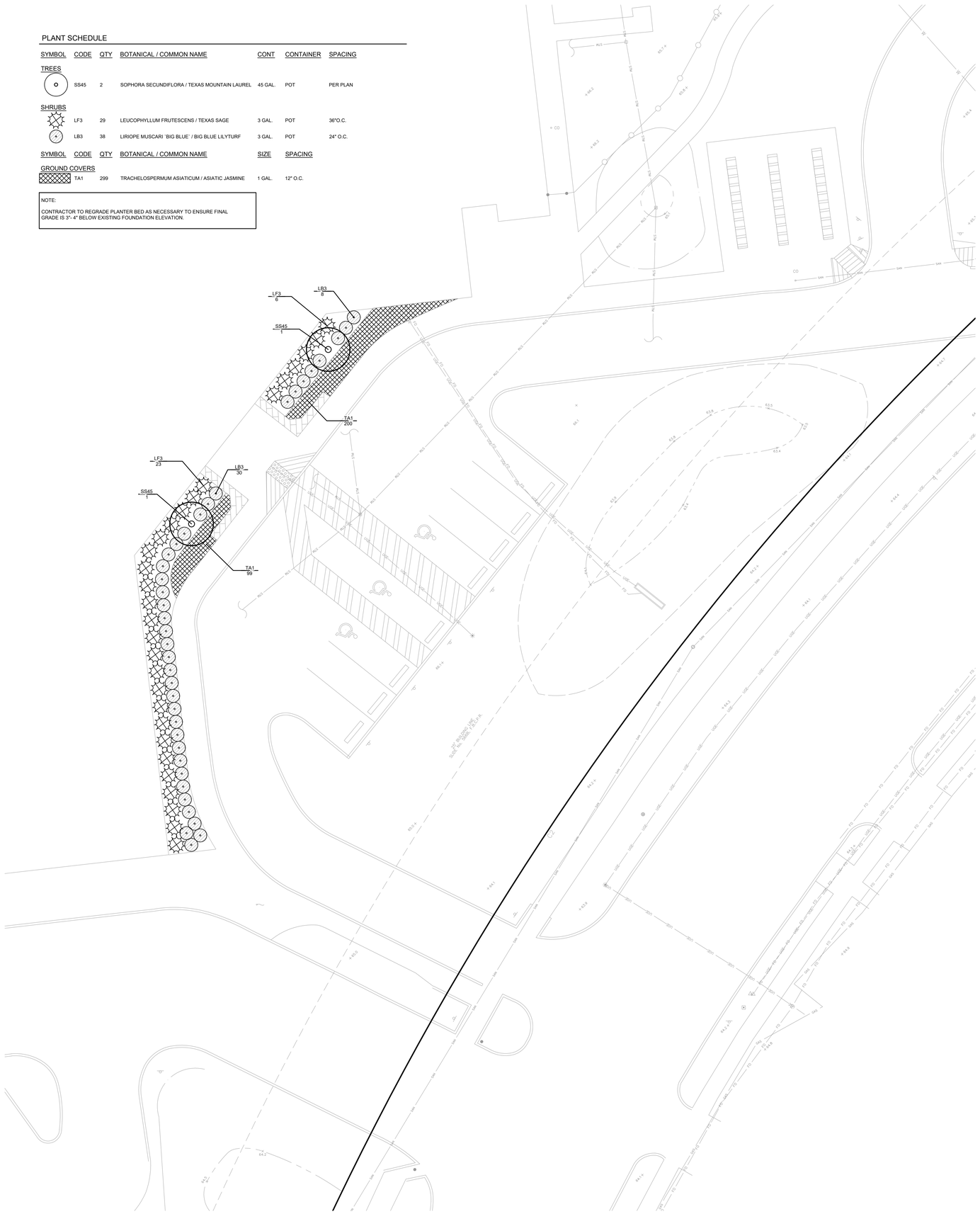
Drawing No.
L300-PES

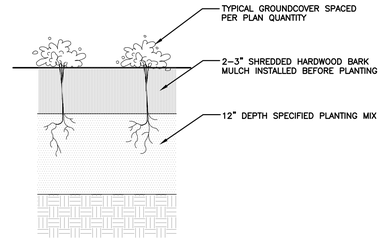
PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CONTAINER	SPACING
TREES						
	SS45	2	SOPHORA SECUNDIFLORA / TEXAS MOUNTAIN LAUREL	45 GAL.	POT	PER PLAN
SHRUBS						
	LF3	29	LEUCOPHYLLUM FRUTESCENS / TEXAS SAGE	3 GAL.	POT	36"O.C.
	LB3	38	LIRIOPE MUSCARI `BIG BLUE` / BIG BLUE LILYTURF	3 GAL.	POT	24" O.C.
SYMBOL	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**SIZE**	**SPACING**	
GROUND COVERS						
	TA1	299	TRACHELOSPERMUM ASIATICUM / ASIATIC JASMINE	1 GAL.	12" O.C.	

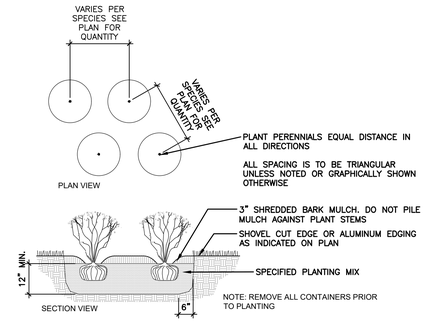
NOTE:

CONTRACTOR TO REGRADE PLANTER BED AS NECESSARY TO ENSURE FINAL GRADE IS 3"- 4" BELOW EXISTING FOUNDATION ELEVATION.





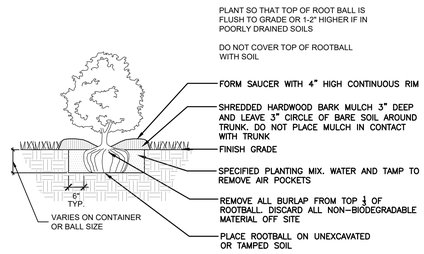
4 GROUNDCOVER PLANTING DETAIL
3" = 1'–0" P–CO–P–09



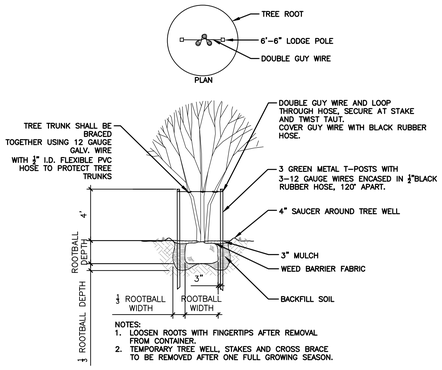
3 PERENNIAL PLANTING DETAIL
1/2" = 1'–0" P–CO–P–08

GENERAL PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING 811. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
3. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE SOUTHERN GROWN, NO. 1 GRADE.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
5. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
6. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
7. ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
8. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
11. NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
12. ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
14. ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
15. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
17. FOR NON-LAWN SEED MIX AREAS, AS NOTED ON PLAN, BRUSH MOW ONCE SEASONALLY FOR INVASIVE SPECIES CONTROL.
18. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.
19. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT OTHERWISE PLANTED PER THIS PLAN. CONTRACTOR SHALL HYDROSEED. NO BARE DIRT AREAS WILL BE ACCEPTED.
20. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO FOLLOW MATERIAL AND MANUFACTURERS INSTRUCTIONS, AS WELL AS COMPLY IN FULL WITH ALL GOVERNING CODES.



2 SHRUB PLANTING DETAIL
1/2" = 1'–0" P–CO–P–07



1 MULTI TRUNK PLANTING DETAIL
1" = 1'–0" P–CO–P–01

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Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
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File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd. 09/22/25 YYYY.MM.DD

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT ELIZABETH AUSTIN 2454 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

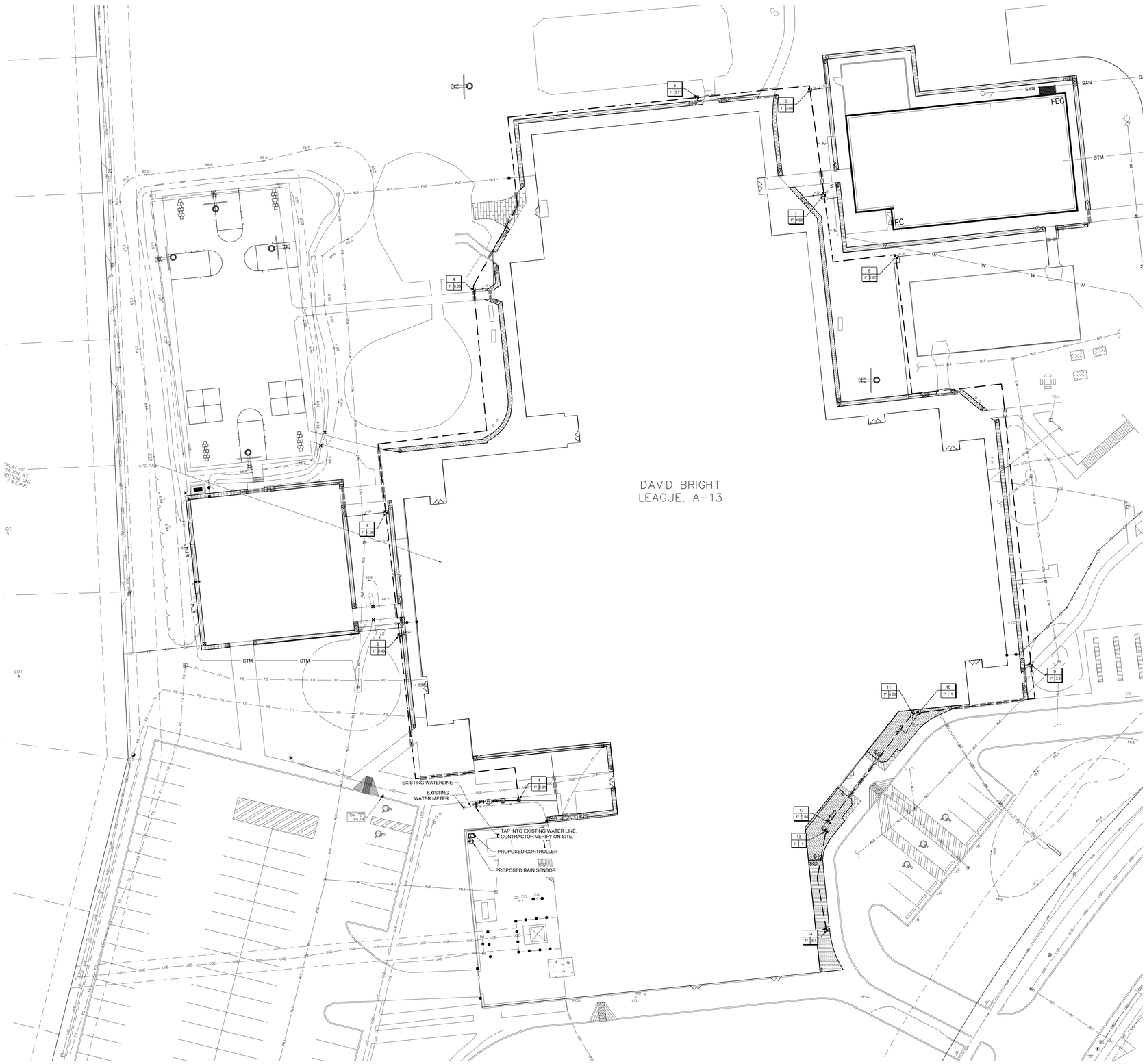
Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
LANDSCAPE PLAN AND DETAILS

Project No. 214001246
Scale 1" = 10'-0"
Revision Sheet 4 of 6
Drawing No. **L400-PES**

ORIGINAL SHEET - ARCH E1



NOTE:

- IRRIGATION DESIGN IS DIAGRAMMATIC,ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN THE PLANTING AREAS IN A MANNER SO AS TO CONFORM WITH THE VARIOUS DETAILS.
- DRIP LINE TO BE INSTALLED BELOW GRADE WITH 2 STRIPS OF SOLID SOD TO BE INSTALLED ON TOP OF BURIED DRIP LINE.

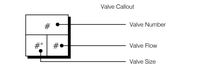
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1401 1402 1404 1408	RAIN BIRD 1802-1400 FLOOD FLOOD BUBBLER 2IN. POPUP	4	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZPGA-100-PRF 1" MEDIUM FLOW, 3-15 GPM, WITH 1IN. PGA VALVE AND 1IN. PRESSURE REGULATING RBY FILTER AND 40PSI PRESSURE REGULATOR. IT IS 2 WIRE COMPATIBLE RESIDENTIAL CONTROL ZONE KIT.	12
P	NETAFIM TL050MFV-1 AUTOMATIC FLUSH VALVE, 1/2IN. MALE PIPE THREAD.	51
ID	HUNTER ECO-ID ECO-ID: 1/2IN. FPT CONNECTION WITH 12 PSI-70 PSI OPERATING PRESSURE. SPECIFY WITH HUNTER SJ SWING JOINT.	28
	AREA TO RECEIVE DRIPLINE HUNTER HDL-06-12-CV HDL-06-12-CV: HUNTER DRIPLINE W/ 0.6 GPH EMITTERS AT 12" O.C. CHECK VALVE, DARK BROWN TUBING WITH GRAY STRIPING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.	4,203 LF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PESB 1" 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY. GLOBE CONFIGURATION. WITH SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.	2
	ISOLATION VALVE IRON, STAINLESS STEEL, BRONZE SHUT OFF VALVE. LATERAL ISOLATION AVAILABLE IN 2IN. WITH VARIABLE RISER. GASKET X GASKET. EPDM SEAL.	2
MV	HUNTER IBV-BSP 1" 1IN., 1-1/2IN., 2IN. AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
BF	FEBCO 860 1" REDUCED PRESSURE BACKFLOW PREVENTER	1
C	RAIN BIRD ESPLXME2-LXMM W/ (1) ESPLXMSM12 24 STATION, TRADITIONALLY-WIRED, COMMERCIAL CONTROLLER (1) ESPLXME2 12-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (1) ESPLXMSM12 - 12-STATION EXPANSION MODULES. INSTALL IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET.	1
RFC	RAIN BIRD WR2-RFC WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.	1
POC	POINT OF CONNECTION 1"	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	18.2 LF
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1/2"	598.8 LF
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 3/4"	3.4 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40 3/4"	994.2 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40 1"	154.7 LF
	PIPE SLEEVE: PVC CLASS 200 SDR 21	235.5 LF

Valve Callout



CRITICAL ANALYSIS

Generated:	2025-09-19 18:44
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	1"
Flow Available	19.62 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Pressure Available:	65 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	5.43 GPM
Flow Available at POC:	19.62 GPM
Residual Flow Available:	14.19 GPM
Critical Station:	12
Design Pressure:	30 PSI
Friction Loss:	0.11 PSI
Fittings Loss:	0.01 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3.46 PSI
Pressure Req. at Critical Station:	33.6 PSI
Loss for Fittings:	1.49 PSI
Loss for Main Line:	14.9 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	11.5 PSI
Loss for Master Valve:	2.37 PSI
Critical Station Pressure at POC:	63.8 PSI
Pressure Available:	65 PSI
Residual Pressure Available:	1.18 PSI

IRRIGATION NOTES:

1. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM PROVIDING FULL COVERAGE AND READY FOR USE BY THE OWNER. THE DRAWINGS ARE BASED ON SURVEY PLANS IN EFFECT AT THE TIME THESE DRAWINGS WERE MADE. ANY DISCREPANCIES, OMISSIONS, ERRORS, ETC. ON THESE DRAWINGS OR ON SITE CHANGES, DOES NOT AND SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE A COMPLETE SYSTEM AS SHOWN. IF NECESSARY, THE CONTRACTOR MAY, WHERE CHANGES OCCUR, ADD OR DELETE SPRINKLERS, REROUTE PIPE, ETC. TO ASSURE ADEQUATE AND FULL COVERAGE PER APPROVAL OF THE LANDSCAPE ARCHITECT.
2. THE CONTRACTOR SHALL VERIFY AND BE FAMILIAR WITH THE LOCATION, SIZE AND DETAIL OF UTILITIES PROVIDED, AS SHOWN ON THE PLANS. PRIOR TO CUTTING INTO THE SOIL THE CONTRACTOR SHALL LOCATE ALL UTILITIES AS ARE COMMONLY ENCOUNTERED UNDERGROUND AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH IMPROVEMENTS. THE CONTRACTOR SHALL CALL DIG ALERT (811) PRIOR TO ANY WORK TAKING PLACE, AND CONTACT THE CITY REPRESENTATIVE FOR LOCATION OF NEWLY INSTALLED UTILITIES.
3. THE IRRIGATION DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN THE PLANTING AREAS IN A MANNER SO AS TO CONFORM WITH THE VARIOUS DETAILS.
4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTION, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREAS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTION OR DIFFERENCES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY REVISIONS THAT ARE NECESSARY.
5. MATERIALS, WORKMANSHIP AND INSTALLATION SHALL BE NEW AND OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
6. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO THIS WORK.
7. ADJUST ALL SPRINKLERS, VALVES OR CHANGE NOZZLE SIZE AND TYPE TO ALLOW FOR COVERAGE WITH MINIMAL OVER-SPRAY. DO NOT ALLOW OVER-SPRAY ON BUILDINGS, WALLS, AND SIDEWALKS.
8. INSTALL APPROPRIATE MAIN LINE PIPING FROM METER TO BACKFLOW PREVENTER PER LOCAL CODE.
9. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR ELECTRICAL POWER TO CONTROLLER LOCATIONS AND MAKE FINAL HOOK-UP. FINAL HOOK-UP SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR.
10. IRRIGATION DESIGN PRESSURE IS 65 PSI STATIC PRESSURE AT THE METER. CONTRACTOR SHALL VERIFY STATIC PRESSURE ON THE SITE AT POINT OF CONNECTION PRIOR TO START OF WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. EXISTING STATIC PRESSURE IN CITY MAIN IS UNKNOWN.
11. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF "UNIFORM PLUMBING CODE" AS WELL AS LOCAL ORDINANCES.
12. IRRIGATION SYSTEM SHALL NOT BE MODIFIED OR CHANGED IN ANY WAY WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT.
13. INSTALL CONSTANT MAIN LINE 24" BELOW FINISH GRADE AND 32" BELOW SUBGRADE OR STREETS AND/OR DRIVES. DIMENSION IS TO TOP OF PIPE.
14. INSTALL INTERMEDIATE PRESSURE LATERAL LINE MINIMUM 12" BELOW FINISH GRADE FOR SPRAY HEADS AND 14" BELOW FINISH GRADE FOR ROTORS AND 24" BELOW SUBGRADE OF STREETS AND/OR DRIVES.
15. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. THE GENERAL REQUIREMENTS OF THE SPECIFICATIONS SHALL BECOME PART OF THE IRRIGATION WORK.
16. IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE, SUITABLE FOR DIRECT BURIAL.
17. INSTALL ONE ADDITIONAL WIRE OF EACH COLOR FROM THE CONTROLLER TO THE LAST VALVE ON BOTH SIDES OF THE LINEAR PARK. THE IRRIGATION WIRE IS TO BE LOCATED DIRECTLY TO THE SIDE OF THE MAIN LINE AND TAPED AT INTERVALS OF 8'.
18. INSTALL "CHRISTY" TAG LOCATED ON THE CONTROL WIRE OF EACH ICV INDICATING CLOCK AND VALVE NUMBER.

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File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd.	09/22/25 YYYY.MM.DD

Permit/Seal

STATE OF TEXAS
JINGLIN ZHAO
LI0029076
LICENSED IRRIGATOR
09/22/25

Client/Project Logo

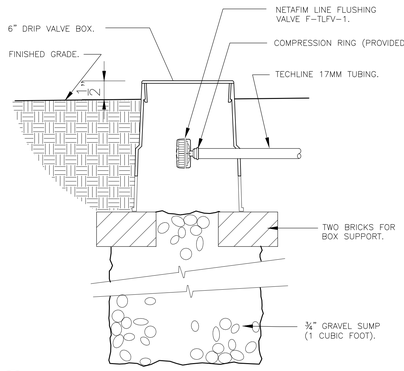
2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

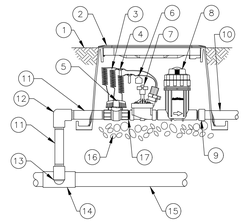
Title
IRRIGATION PLAN

Project No. 214001246
Scale 1" = 20'-0"
Revision
Sheet 5 of 6
Drawing No. **L500-PES**



10 NETAFIM TECHLINE FLASH VALVE

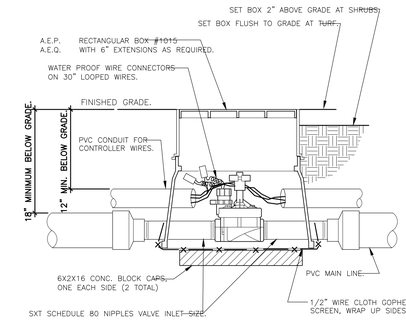
1" = 1'-0" P-CO-IR-DRIP-14



1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVERS: RAIN BIRD VB-STD
3. 30" LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1" BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE
8. PRESSURE REGULATE QUICK CHECK BASKET FILTER (INCLUDED IN KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN KIT)

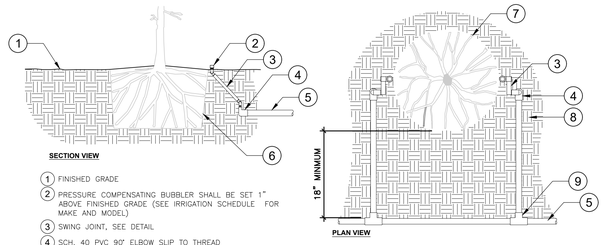
4 DRIP ZONE CONTROL VALVE KIT

3/4" = 1'-0" P-CO-IR-DRIP-06



9 MASTER CONTROL VALVE

1/8" = 1'-0" P-CO-IR-VALV-13



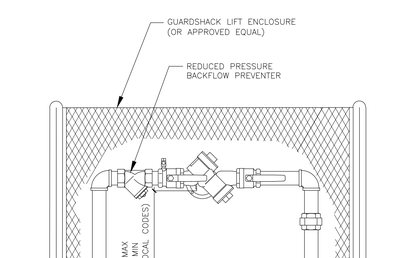
1. FINISHED GRADE
2. PRESSURE COMPENSATING BUBBLER SHALL BE SET 1" ABOVE FINISHED GRADE (SEE IRRIGATION SCHEDULE FOR MAKE AND MODEL)
3. SWING JOINT, SEE DETAIL
4. SCH. 40 PVC 90° ELBOW SLIP TO THREAD
5. LATERAL LINE IRRIGATION (SEE IRRIGATION PLANS FOR SIZING)
6. EDGE OF ROOT BALL. SETTLE BACKFILL SO IRRIGATION FLOWS THROUGH ROOT BALL
7. EDGE OF ROOT BALL
8. EXISTING OR MODIFIED SOIL (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
9. SCH. 40 PVC TEE OR 90° ELBOW

NOTES:

1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

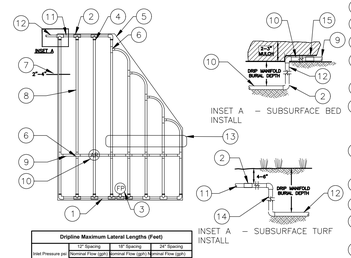
3 IRRIGATION BUBBLER (2) W/ LAYOUT

1/16" = 1'-0" P-CO-IR-HD-07



8 FEBCO MODEL DETAIL

1 1/2" = 1'-0" P-CO-IR-HD-02



Dripline Maximum Lateral Lengths (Feet)						
	12" Spacing		18" Spacing		24" Spacing	
Inlet Pressure psi	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	435	322
20	316	169	353	294	505	369
30	360	220	413	350	585	414
40	395	265	455	402	652	474
50	417	285	535	420	720	498
60	460	290	556	455	780	514

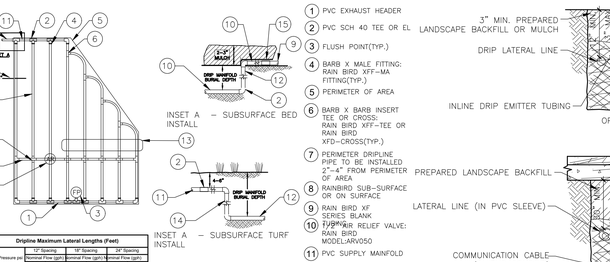
1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL
3. FLUSH POINT(TYP.)
4. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING(TYP.)
5. PERIMETER OF AREA
6. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS(TYP.)
7. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
8. RAINBIRD SUB-SURFACE OR ON SURFACE
9. RAIN BIRD XF SERIES BLANK TUBING
10. AIR RELIEF VALVE: RAIN BIRD MODEL:ARV050
11. PVC SUPPLY MAINFOLD
12. PVC SUPPLY PIPE FROM RAIN BIRD CONROL ZONE KIT
13. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
14. PVC SCH 40 RISER PIPE
15. WEED BARRIER FABRIC

NOTES:

1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTHS OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50 PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

6 DRIPLINE IRRIGATION LAYOUT

3/4" = 1'-0" P-CO-IR-DRIP-13

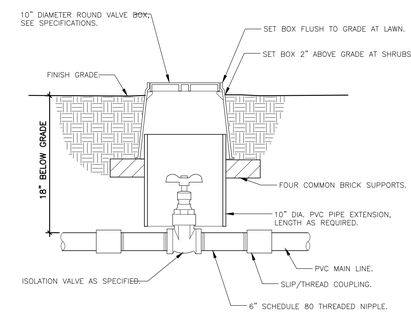


NOTES:

1. SLEEVE ALL PIPE AND WIRES UNDER WALKS, DRIVEWAYS, STRUCTURES, WALLS, ETC.
2. EXTEND SLEEVE INTO LANDSCAPE AREA 12" MIN.
3. ALL BACKFILL MATERIAL SHALL BE FREE OF RUBBISH, AND STONES LARGER THAN 3/8" MAX. DIMENSIONS.
4. TAPE AND BUNDLE WIRING OR TUBING AT 10' INTERVALS.
5. ALL PLASTIC PIPES TO BE SNAKED IN TRENCHES.
6. ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.

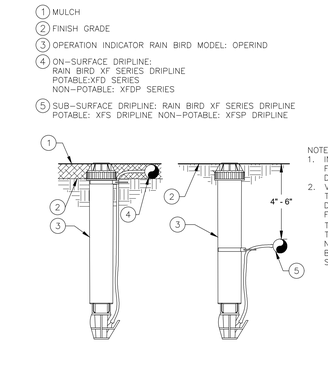
2 IRRIGATION TRENCH

1" = 1'-0" P-CO-IR-AUXI-11



7 BRASS ISOLATION VALVE

1/8" = 1'-0" P-CO-IR-VALV-10



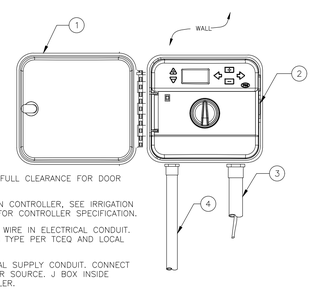
1. MULCH
2. FINISH GRADE
3. OPERATION INDICATOR RAIN BIRD MODEL: OPERIND
4. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE:XFD SERIES NON-POTABLE: XFDP SERIES
5. SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE

NOTE:

1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO ¼ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM. SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN,

5 DRIP OPERATION INDICATOR

3/4" = 1'-0" P-CO-IR-DRIP-07



1. PROVIDE FULL CLEARANCE FOR DOOR OPENING
2. IRRIGATION CONTROLLER, SEE IRRIGATION LEGEND FOR CONTROLLER SPECIFICATION.
3. CONTROL WIRE IN ELECTRICAL CONDUIT. SIZA AND TYPE PER TCEQ AND LOCAL CODE
4. ELECTRICAL SUPPLY CONDUIT. CONNECT TO POWER SOURCE. J BOX INSIDE CONTROLLER.

NOTES:

PROVIDE RAIN/FREEZE SENSOR AND AFFIX SENSOR TO INSIDE OF PARAPET WALL ABOVE CONTROLLER.
CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

1 IRRIGATION CONTROLLER

1" = 1'-0" P-CO-IR-AUXI-05

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Permit/Seal

STATE OF TEXAS
JINGLIN ZHAO
LI0029076
LICENSED IRRIGATOR
09/22/25

Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

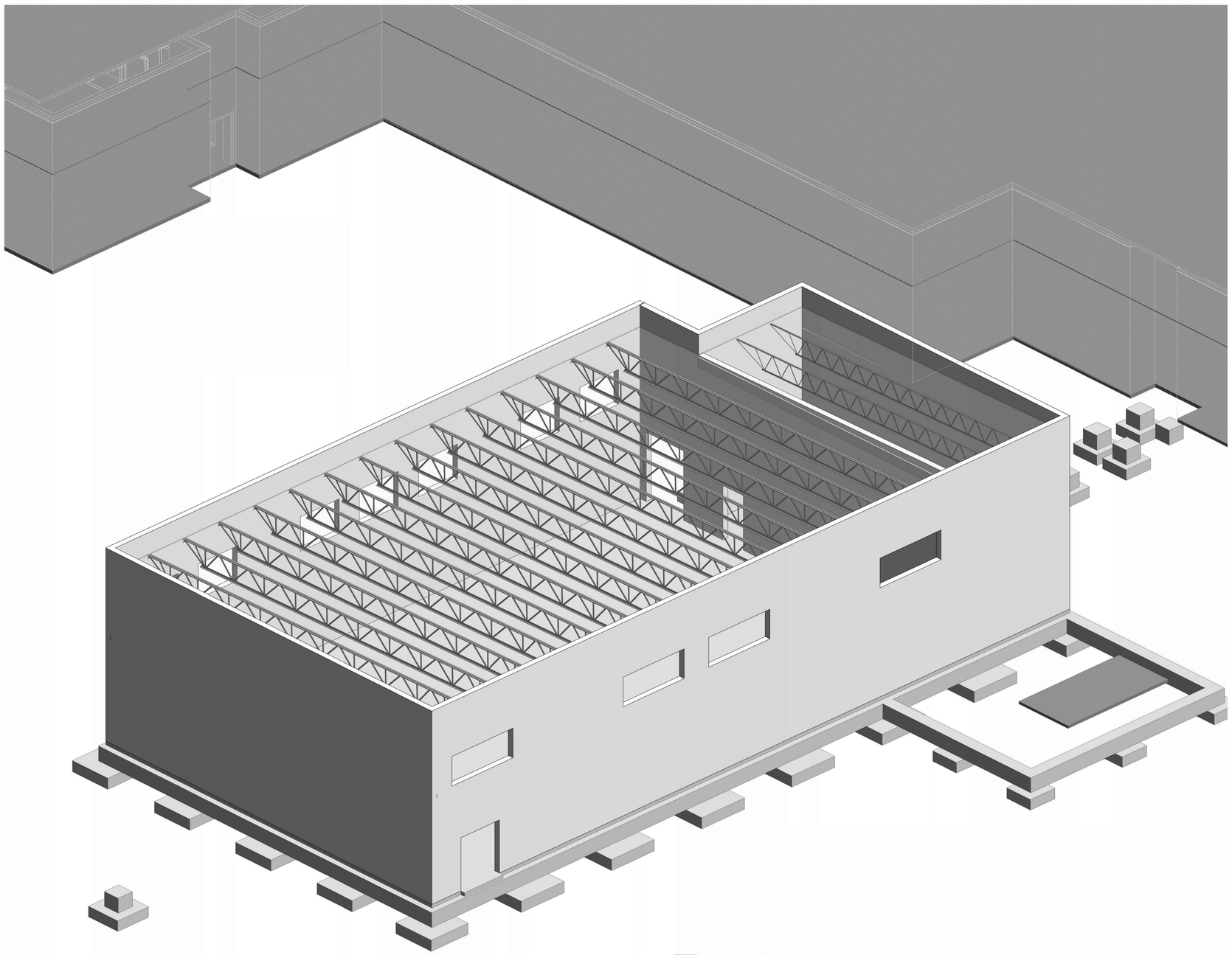
Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
IRRIGATION DETAILS

Project No. 214001246
Scale VARIES
Revision Sheet 6 of 6
Drawing No. **L600-PES**

ORIGINAL SHEET - ARCH E1



1 PRESENTATION 3D VIEW - GYMNASIUM

SHEET LIST (WITH REVISIONS)			
SHEET NUMBER	SHEET NAME	DATE	REVISION
S001	3D VIEW AND SHEET LIST		
S101	GENERAL STRUCTURAL CRITERIA		
S102	GENERAL STRUCTURAL CRITERIA		
S201	FOUNDATION PLAN - COMPOSITE		
S201A	FOUNDATION PLAN - GYMNASIUM		
S202	ROOF FRAMING PLAN - COMPOSITE		
S202A	ROOF FRAMING PLAN - GYMNASIUM		
S301	FOUNDATION SCHEDULE & TYPICAL SLAB ON GRADE DETAILS		
S401	TYPICAL GB AND CF DETAILS		
S402	SOG @ STRUCTURAL STEEL (GB / FOOTING)		
S501	TYPICAL CMU WALL DETAILS		
S601	TYPICAL STEEL & CMU WALL ROOF DETAILS		

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Notes

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Permit/Seal

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Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

3D VIEW AND SHEET LIST

Project No.	Scale
214001246	
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S001-PES

ORIGINAL SHEET - ARCH E1

STRUCTURAL ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICALS	LLH	LONG LEG HORIZONTAL
ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL
ADDL	ADDITIONAL	LW	LONG WAY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MATL	MATERIAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	MAX	MAXIMUM
ANSI	AMERICAN NOTIONAL STANDARD INSTITUTE	MC	MOMENT CONNECTION, MISCELLANEOUS CHANNEL
ARCH	ARCHITECTURAL	MECH	MECHANICAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MANUF	MANUFACTURER(S)
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MID	MIDDLE
AWS	AMERICAN WELDING SOCIETY	MISC	MISCELLANEOUS
BC	BOTTOM CHORD	MO	MASONRY OPENING
BOD	BOTTOM OF DECK	NIC	NOT IN CONTRACT
BOT	BOTTOM	NOM	NOMINAL
BP	BASE PLATE	NTS	NOT TO SCALE
BRG	BEARING	OC	ON CENTER
C	CHANNEL, COMPRESSION, CAMBER	OD	OUTSIDE DIAMETER
CIP	CAST IN PLACE	OPNG	OPENING
CL	CENTER LINE	OPP	OPPOSITE
CLR	CLEAR	PL	PLATE
COL	COLUMN	PLF	POUNDS PER LINEAR FOOT
CONC	CONCRETE	PROJ	PROJECTION
CONT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CSJ	CONSTRUCTION JOINT	PSF	POUNDS PER SQUARE FOOT
CTJ	CONTROL JOINT	R	RADIUS
DET	DETAIL	RD	ROOF DRAIN
DIA	DIAMETER	RE	REFER, REFERENCE
DIAG	DIAGONAL	REINF	REINFORCEMENT (D), (ING), (MENT)
DP	DOUBLE PITCHED	REQD	REQUIRED
DWG	DRAWING	REV	REVISION
DWL	DOWEL	RO	ROUGH OPENING
EA	EACH	SCHED	SCHEDULE(D)
EF	EACH FACE	SDI	STEEL DECK INSTITUTE
EJ	EXPANSION JOINT	SECT	SECTION
EL	ELEVATION	SF	SQUARE FEET
ELEC	ELECTRICAL	SIM	SIMILAR
ELEV	ELEVATOR	SJI	STEEL JOIST INSTITUTE
EOD	EDGE OF DECK	SPEC	SPECIFICATION(S)
EOS	EDGE OF SLAB	SQ	SQUARE
EQ	EQUAL(LY)	STD	STANDARD
EXIST	EXISTING	STIF	STIFFINER
EXP	EXPANSION	STL	STEEL
FD	FLOOR DRAIN	STR	STRUCTURAL
FFE	FINISH FLOOR ELEVATION	T	TOP, TENSION
FND	FOUNDATION	T&B	TOP AND BOTTOM
FS	FAR SIDE	T&G	TONGUE AND GROOVE
FT	FEET, FOOT	TEMP	TEMPERATURE
FTG	FOOTING	THK	THICK(NESS)
GA	GAUGE	TOC	TOP OF CONCRETE
GALV	GALVANIZED	TOF	TOP OF FOOTING
GB	GRADE BEAM	TOJ	TOP OF JOIST
HORIZ	HORIZONTAL	TOL	TOP OF LEDGE
HSS	HOLLOW STRUCTURAL SECTION	TOP	TOP OF PANEL
ID	INSIDE DIAMETER	TOS	TOP OF STEEL
IN	INCHES	TOW	TOP OF WALL
JST	JOIST	TRD(S)	TREAD(S)
JT	JOINT	TYP	TYPICAL
K	KIPS, JOIST SERIES	UL	UNDERWRITERS LABORATORY
KB	KNEE BRACE	UNF	UNIFORM
L	SPAN, LEFT, STEEL ANGLE	UON	UNLESS OTHERWISE NOTED
Ld	DEVELOPMENT LENGTH	V	BEAM AND SHEAR
LL	LIVE LOAD	VB	VERTICAL BRACE
LLBB	LONG LEG BACK TO BACK	VERT	VERTICAL
		W	WALL, EST, WIDTH, WIDE FLANGE
		W/	WITH
		WL	WIND LOAD, WATER LEVEL, WORKING LINE
		WP	WATER PROOF, WORKING POINT

STRUCTURAL LEGEND

P1	PRECAST CONCRETE PANEL MARK	S1	SPAN DIRECTION OF A MILD REINFORCED CONCRETE SLAB W/ MAIN REINFORCING MARK S1
F1	SPREAD FOOTING MARK	DECK TYPE 1	SPAN OF 5 1/2" THICK CONCRETE SLAB W/ TYPE 1 STEEL DECK
P1	PLINTH MARK	DECK TYPE 1	SPAN DIRECTION OF BARE STEEL DECK TYPE 2 WITH NO CONCRETE TOPPING
C1	COLUMN MARK	20KSP	SPECIAL OPEN WEB K SERIES STEEL JOIST, SEE PLAN NOTES FOR LOAD REQUIREMENTS
CF1	CONTINUOUS FOOTING MARK	W27X84 <24'-0">	STANDARD AISC ROLLED SHAPE OF W27X84 AT ELEVATION 24'-0" ABOVE DATUM
RW1	RETAINING WALL MARK	W27X84 c=1"	STANDARD AISC ROLLED SHAPE OF W27X84 WITH A 1" UPWARD CAMBER
BP1	BASE PLATE MARK	W27X84 (10)	STANDARD AISC ROLLED SHAPE OF W27X84 W/ 10 HSA (EQUALLY SPACED)
A	STRUCTURAL STEEL COLUMN SPLICE TYPE MARK	W27X84 (10, 6, 12) WBEAM WBEAM	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 28 HSA EQUALLY SPACED FROM BOTTOM TO TOP AS 10 CONNECTORS / 6 CONNECTORS / 12 CONNECTORS
24/24	STRAIGHT SHAFT PIER (SHAFT Ø)		
24/48	DRILLED PIER (SHAFT AND BELL Ø)	BEAM	CONNECTED TO A ROLLED SHAPE COLUMN WITH A STANDARD WELDED MOMENT CONNECTION STANDARD AISC ROLLED SHOPE BEAM
B1 GB1 1B1	MILD REINFORCED CONCRETE BEAM MARK		
J1	MILD REINFORCED CONCRETE JOIST MARK	6"	SLAB DEPRESSION AND AMOUNT

STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:
1. THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:
1. INTERNATIONAL BUILDING CODE, 2021 EDITION.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-22 , AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACE), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 15TH EDITION (ASD), 2005, AS AMENDED.
5. AMERICAN WELDING SOCIETY (AWS).
6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS.
7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:
1. SUPER-IMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF)

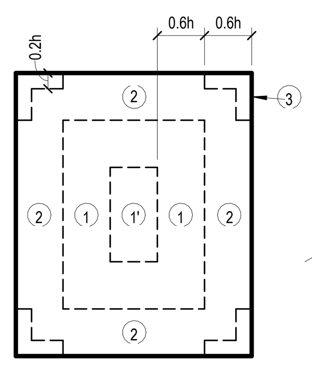
BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
SLAB ON GRADE	0	100
ROOF	20	20
MECHANICAL AREAS	10	150 (**)

* INCLUDES ALL ALLOWANCES OF 15 PSF FOR PARTITION WEIGHT
** EQUIPMENT WEIGHT IF LARGER

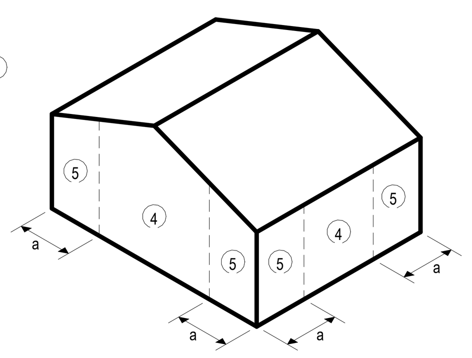
D. LATERAL DESIGN LOADS (CLOSED STRUCTURE):
1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF 143 MPH (ASD WIND SPEED OF 111 MPH), 3-SECOND GUST, WITH EXPOSURE B AND A RISK CATEGORY III.
2. COMPONENTS AND CLADDING PRESSURES (PSF) FOR "CLOSED" BUILDINGS:

		ZONE 1		ZONE 1'		ZONE 2		ZONE 3	
ROOF	10 FT²	+16	-56	+30	-32	+16	-74	+16	-100
	100 FT²	+16	-44	+26	-32	+16	-58	+16	-69
		ZONE 4		ZONE 5					
WALLS	10 FT²	+96	-57	+123	-65				
	100 FT²	+75	-47	+86	-50				
		ZONE 4		ZONE 5					
PARAPETS	10 FT²	+32	-35	+32	-43				
	100 FT²	+27	-30	+27	-33				

a. RE: 2021 IBC FOR DESCRIPTION OF CORNER, PERIMETER AND FIELD.
b. POSITIVE PRESSURES ARE PRESSURES ACTING TOWARDS THE BUILDING.
c. NEGATIVE PRESSURES ARE PRESSURES ACTING AWAY FROM THE BUILDING.
d. VALUES ABOVE ARE FOR BASIC DESIGN WIND PRESSURES THE ASD FACTOR 0.6..
e. ZONE WIDTH DIMENSIONS:
- a (WALLS) = 3FT
- 0.2h = 4.3FT
- 0.6h = 13FT



ROOF



WALL

E. SEISMIC CRITERIA:

1. IMPORTANCE FACTOR:	1.25
2. RISK CATEGORY:	III
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss: 0.078, S1: 0.042
4. SITE CLASS:	D
5. SPECTRAL RESPONSE COEFFICIENTS:	SDs: 0.071, SD1: 0.063
6. SEISMIC DESIGN CATEGORY:	A

F. SPECIAL LOADS:
1. STAIR TREADS, RAILING AND GUARDRAILS:

ITEM	REQUIRED CAPACITY
TREADS	300 POUNDS AT CENTER
TOP RAILS	50 PLF HORIZONTALLY (DISTRIBUTED)
OTHER RAILS, FILLERS & CONNECTIONS	50 PLF HORIZONTALLY (DISTRIBUTED)
HAND RAILS	200 POUNDS ANY DIRECTION

2. PIPE LOADS WITH WATER

SIZE	WEIGHT MAX	SPACING OF HANGERS
4" Ø	17 PLF	10'-0"
6" Ø	32 PLF	10'-0"
8" Ø	50 PLF	10'-0"
10" Ø	75 PLF	5'-0"
12" Ø	102 PLF	5'-0"
VALUES ASSUME SCHEDULE 40 STEEL PIPE		

G. ROOF RAIN LOAD DATA:
1. RAIN INTENSITY 60 MIN, i = 5.32 IN/HR

H. GROUND SNOW LOADS:
1. GROUND SNOW: 9 PSF

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH (PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SUMP (IN)	W/C RATIO
	3000	3500	4000			
SPREAD FOOTINGS	●			1 1/2"	5-7	0.55
SLAB ON GRADE		●		1"	4-6	0.50
SLAB ON DECK		●		1"	4-6	0.50
GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.
C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI
D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.
E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
  a. LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.
F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.
G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE H. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.
H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.
  1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.
  2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL".

BAR SIZE GRADE 60	Ld FOR TOP BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)				Ld FOR BOTTOM BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000 / 3500	4000	5000	6000	3000 / 3500	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

J. AT LAP SPLICES, PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld SHOWN IN THE TABLE IN NOTE H ABOVE.
K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.
L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.
  1. UNIFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES
  2. UNIFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES
  3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
    - #6 AND LARGER: 2 INCHES
    - #5 AND SMALLER: 1 1/2 INCHES
  4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
    - SLABS AND WALLS: 3/4 INCH
    - BEAMS AND COLUMNS: 1 1/2 INCHES

GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
B. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
C. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.
D. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.
E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.
F. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.
G. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.
H. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.
I. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
J. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.
K. SHOP DRAWINGS:
  1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.
  2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
  3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
  4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
  5. STRUCTURAL SUBMITTALS REQUIRED FOR APPROVAL INCLUDE, BUT ARE NOT LIMITED TO:
    - CONCRETE ACCESSORIES (MANUFACTURERS PRODUCT DATA)
    - STEEL REINFORCING
    - CONCRETE MIX DESIGN
    - CONTROL JOINT LAYOUT
    - CONCRETE MATERIAL CERTIFICATES
    - STRUCTURAL STEEL FRAMING
    - STRUCTURAL STEEL CONNECTION CALCULATIONS
    - STEEL ROOF DECK
    - COLD FORMED METAL FRAMING
    - COLD FORMED METAL FRAMING CALCULATIONS
    - MISC. STEEL FABRICATIONS
  6. DELEGATED STRUCTURAL DESIGN OF COMPONENTS:
    - SEE APPLICABLE SECTIONS OF GENERAL NOTES FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.
L. THESE NOTES APPLY TO STRUCTURAL DOCUMENTS SEALED BY THE STRUCTURAL ENGINEER AND ARE INTENDED TO BE COMPLEMENTARY TO AND USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, INCLUDING THOSE PREPARED BY OTHER DISCIPLINES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/STRUCTURAL ENGINEER IMMEDIATELY. ANY SUCH DISCREPANCIES SHALL BE RESOLVED TO THE MORE STRINGENT REQUIREMENTS, UNLESS OTHERWISE AUTHORIZED BY THE STRUCTURAL ENGINEER.
M. ANY DISCREPANCIES ON THE STRUCTURAL DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF BIDS OR PROPOSALS, OR IF NOT REASONABLE DISCERNABLE DURING PREPARATION OF BIDS AND PROPOSALS, BEFORE COMMENCING THE WORK IN QUESTIONS. NO FIELD CHANGES OR DIVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER. NO CHANGE ORDER CONSIDERATION WILL BE GIVEN TO CHANGES FOR WHICH THE ARCHITECT AND/OR ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
N. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION, INCLUDING EXISTING WORK, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORT IMMEDIATELY TO THE ARCHITECT/STRUCTURAL ENGINEER.
O. GENERAL FRAMING NOTES:
  1. FOR ALL MISCELLANEOUS STEEL SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME THE FOLLOWING AS A MINIMUM AND CONFIRM FINAL ASSUMPTIONS WITH STRUCTURAL ENGINEER:
    - EQUAL LEG ANGLES = L4X4X5/16
    - LLV ANGLES = L6X4X5/16
    - CHANNELS = C8X11.5
    - HSS TUBES =HSS6X6X3/8
    - LSV TUBE = HSS12X8X1/2
    - ROUND TUBE = 6" STD PIPE
    - WIDE FLANGE = W14X22
    - STEEL PLATE = 3/8" THICK
  2. FOR ALL MECHANICAL OPENINGS SHOWN ON ARCHITECTURAL OR MEP DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE W14X22 PERIMETER BEAMS AS REQUIRED TO FRAME REQUIRED OPENING WHERE OPENING DIMENSIONS EXCEED 5'-0" IN ANY DIRECTION.
  3. FOR ALL WINDOWS, STOREFRONTS AND CURTAINWALLS EXCEEDING 10'-0" IN LENGTH WHERE HANGING STEEL TO SUPPORT THE HEADER IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE C6X8.2 VERTICAL HANGERS WITH L4X4X1/4 KICKERS AT 4'-0" OC AND CONTINUOUS L6X4X5/16 ANGLE ALONG THE BOTTOM. PROVIDE CONTINUOUS HSS6X2X1/4 (LSH) IN LIEU OF L6X4 BOTTOM ANGLE AND GALVANIZE 3/8" BENT LEDGER PLATE WHERE MASONRY WILL BE SUPPORTED.
  4. FOR ALL FOLDING PARTITIONS WHERE HANGING STEEL TO SUPPORT HEADER TRACK IS NOT SHOWN ON STRUCTURAL DRAWINGS PROVIDE C6x8.2 VERTICAL HANGERS WITH L4x4x1/4 KICKERS AT 4'-0" AND CONTINUOUS WT6X20 ALONG THE BOTTOM. HANGERS SHALL BE SPACED AT 2'-0" ON CENTER AT STACKED ENDS OF PARTITION.
  5. FOR ALL COILING OVERHEAD DOORS AND ROLLING GRILLS EXCEEDING 10'-0" IN WIDTH WHERE TUBE STEEL TO SUPPORT THE DOOR/HOUSING IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE HSS12X8X3/8 (LSV) INTERMEDIATE STEEL TUBE.
  6. ALL STAIR MEMBERS INCLUDING, BUT NOT LIMITED TO, STRINGERS, LANDINGS AND HANDRAILS SHALL BE DESIGNED BY THE STAIR ENGINEER AND STEEL FABRICATOR.
P. GENERAL FOUNDATION NOTES:
  1. FOR ALL SLAB ON GRADE SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME 5" THICK CONCRETE SLAB WITH #4 REINFORCING BARS AT 14" OC IN EACH DIRECTION.
  2. MECHANICAL EQUIPMENT AND LOCKERS SHALL RECEIVE A HOUSEKEEPING PAD AS INDICATED IN MEP OR ARCHITECTURAL DRAWINGS AND PER MANUFACTURER'S RECOMMENDATIONS.
  3. THE MAXIMUM GRADE BEAM SPAN IS 20'-0". PROVIDE ADDITIONAL 24/48 PIER AT MID SPAN WHERE PIERS ARE NOT SHOWN ON PLAN AND ALLOWABLE SPAN IS EXCEEDED.
  4. ASSUME GRADE BEAM TYPE "GB1" FOR ALL LOCATIONS WHERE CMU WALLS EXCEED 16'-0" IN HEIGHT ARE SHOWN ON PLANS. SUPPLY 24/48 PIER AT 20'-0" OC MAXIMUM UNDER GRADE BEAM.
  5. FOR ALL DUMPSTER ENCLOSURES, SCREEN WALLS, AND OTHER MASONRY FENCES NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 8 '-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS 'TYPE GB1' GRADE BEAM ON 24/48 DRILLED PIERS SPACED AT 15'-0" MAXIMUM. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #6 VERTICAL BARS SPACED AT 24" ON CENTER IN FULLY GROUTED CELLS.
  6. FOR ALL SPORTS FIELDS WHERE THE BACKSTOP WALL IS NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 4'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS CONCRETE FOOTING. FOOTING SHALL BE 1 '-0" THICK x 3'-0" WIDE BEARING 3'-0" BELOW FINISHED GRADE. STRUCTURAL MASONRY WALL SHALL BE 8 " CMU WITH #5 VERTICAL BARS SPACED AT 32" ON CENTER SUPPORTED BY CONCRETE STEM WALL EXTENDING FROM CONTINUOUS FOOTING. REINFORCE FOOTING WITH LONGITUDINAL (4) # 4 BARS AND TRANSVERSE #4 BARS AT 12" ON CENTER. AT STEM WALL PROVIDE #4 DOWELS AT 12" ON CENTER AND (3) #4 CONTINUOUS BARS AT EACH FACE.

STRUCTURAL STEEL

A. ROLLED SHAPES:
  1. ALL STRUCTURAL STEEL FOR ALL THE HORIZONTAL FRAMING MEMBER SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS OTHERWISE NOTED.
  2. ALL STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C WITH A MINIMUM YIELD OF 50 KSI, UNLESS OTHERWISE NOTED.
  3. ALL STRUCTURAL STEEL FOR PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
  4. ALL STRUCTURAL STEEL FOR ANGLES, PLATES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
  5. ALL EXPOSED STEEL TO BE HOT DIPPED GALVANIZED.
B. CONNECTIONS:
  1. THE DESIGN OF STRUCTURAL STEEL CONNECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE STEEL FABRICATOR. THE DETAILS AND CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
    - ALL WELD SIZES AND LENGTHS
    - ALL BOLT SIZES, LOCATIONS, QUANTITIES AND GRADES
    - ALL PLATE AND ANGLE SIZES, THICKNESS AND DIMENSIONS
    - ALL WORK POINT LOCATIONS AND RELATED INFORMATION.
  2. PROVIDE STANDARD BOLTED CONNECTIONS CONFORMING TO AISC BOLTED CONNECTIONS, USING ASTM A325 OR A490 BOLTS, FOR THE BEAM END SHEARS INDICATED IN THE DOCUMENTS. PROVIDE MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS.
  3. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS UNLESS OTHERWISE NOTED.
  4. SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
  5. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAM IN THE 15TH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD)
  6. WHERE BEAMS ARE TO RECEIVE HEADED SHEAR CONNECTORS, DESIGN THOSE BEAM CONNECTIONS FOR THE REACTION SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN THE CONNECTIONS TO SUPPORT 40 PERCENT OF THE MAXIMUM WEB SHEAR, V, FOR THE APPLICABLE MEMBER SIZE AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE 15TH EDITION OF THE AISC MANUAL.
  7. MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 5 ABOVE.
  8. WHERE FILLET WELD IS NOT SHOWN ON DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16"
C. WELDS:
  1. CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
  2. WELDS ON INDICATED ON DRAWINGS ARE TO BE FILLET ALL AROUND AS PRESCRIBED BY AISC SPECIFICATION, PROVIDE WELDING OF CONTINUOUS MEMBERS OF 2 INCHES OF 3/16" INCH FILLET STITCH WELDS AT 12 INCHES OC, STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED.
  3. FIELD PAINT ALL WELDS W/ "GALVILITE" BY Z.R.C. OR APPROVED EQUAL ARC WELDING ELECTRODES.
  4. METAL DECK - E60XX
  5. STRUCTURAL STUDS - E6022 OR E6011, 3/32" RODS.
  6. ALL OTHER - E70XX LOW HYDROGEN, 250 DEGREE MIN. OVEN TEMP.
  7. SIZE - ALL FILLETS ARE 1/16" LESS THAN MINIMUM THICKNESS TO BE WELDED.
  8. PROVIDE ULTRASONIC INSPECTION BY THE TESTING LABORATORY FOR ALL WELDS INDICATED AS PENETRATION WELDS.
D. HEADED SHEAR CONNECTORS:
  1. ALL HEADED SHEAR CONNECTORS SHALL BE 3/4 IN. DIAMETER STUDS x 4 1/2 IN. LONG AFTER WELDING AND SHALL CONFORM TO ASTM A108 UNLESS OTHERWISE NOTED.
  2. PLACE MAXIMUM NUMBER OF STUDS IN A SINGLE ROW PATTERN AND THE BALANCE IN A DOUBLE ROW PATTERN AS NECESSARY TO SATISFY THE AISC SPACING REQUIREMENT.
E. OPEN WEB STEEL JOISTS:
  1. AS APPLICABLE FOR THE OPEN WEB STEEL JOIST TYPE INDICATED ON THE DRAWINGS, CONFORMING TO SJI OR AISC, WHICHEVER IS MORE STRINGENT.
  2. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI.
  3. DESIGN ROOF JOISTS USING GOVERNING LOAD COMBINATIONS WITH UPLIFT PRESSURES INDICATED ON COMPONENT AND CLADDING PRESSURES TABLE.
F. STEEL DECK:

TYPE 1

  1. PROVIDE 1" VENTED METAL DECK, 20 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 80, GALVANIZED COATING DESIGNATION G90. PROVIDE LIGHT WEIGHT CONCRETE TOPPING (48-60 PCF), FILLING FLUTES ONLY.REFER TO ARCHITECTURAL DRAWINGS FOR INSULATION REQUIREMENTS.
  2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
    A. MOMENT OF INERTIA: I =0.090 INCHES⁴ /FOOT WIDTH
    B. SECTION MODULUS: Sp =0.168 INCHES³ /FOOT WIDTH
    C. SECTION MODULUS: Sn =0.166 INCHES³ /FOOT WIDTH
  3. ATTACH STEEL ROOF DECK TO STEEL SUPPORTS AND AT SIDE LAPS AS FOLLOWS:
    A. POWDER-ACTUATED FASTENERS:
      - SUPPORTS: "HILTI" X-HSN-24 AND "HILTI" X-ENP-19L15, 32/5 PATTERN
      - SIDELAPS: #12 "TEK" @ 8" O.C. MAXIMUM
    B. WELDS:
      - SUPPORTS: 5/8" PUDDLE WELD, 32/5 PATTERN
      - SIDELAPS: #14 TEK SCREWS @ 8" O.C. MAX

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY AVILES ENGINEERING CORPORATION DATED MAY 2025 REPORT NO. G103-25B (DRAFT) IS AVAILABLE FOR REVIEW.
B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.
C. SUB-GRADE PREPARTION:
  a. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED BY THE GEOTECHNICAL REPORT. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.
  b. EXCAVATE EXISTING SOILS AS REQUIRED TO REMOVE ALL EXISTING VEGETATION, ROOTS AND DELETERIOUS MATERIALS FROM THE PROPOSED BUILDING AREA, AND AS REQUIRED BY GEOTECHNICAL REPORT. THE CLEARING SHOULD EXTEND BEYOND THE BUILDING EDGES. ONCE ROUGH GRADE IS ESTABLISHED, THE EXPOSED SURFACE SHOULD BE PROOF-ROLLED. ANY SOFT POCKETS OF SOFT OR WEAK SOILS ENCOUNTERED SHOULD BE REMOVED. BUILD BUILDING PAD AS REQUIRED BY GEOTECHNICAL REPORT.
  c. BUILDING PAD UNDER SLAB ON GRADE SHALL BE PREPARED TO PROVIDE AN OWNER APPROVED PVR OF 1" OR LESS BASED ON RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
D. FOUNDATIONS HAVE BEEN DESIGNED FOR:
  1. ALLOWABLE BEARING PRESSURE OF 2700 PSF FOR SUSTAINED LOAD.
  2. ALLOWABLE BEARING PRESSURE OF 4050 PSF FOR TOTAL LOAD.
E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

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Notes

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Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
GENERAL STRUCTURAL CRITERIA

Project No.
214001246

Scale
1 1/2" = 1'-0"

Revision

Drawing No.

S101-PES

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ORIGINAL SHEET - ARCH E1

INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TOPERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBILITIES:
   1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.
   2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.
   3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.
   4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.
   5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.
   6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.
   7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.
C. SPECIAL INSPECTIONS:
   1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. HE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.
   2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE INTERNATIONAL BUILDING CODE, SECTION 1704.
   3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCE STANDARD	FREQUENCY

STRUCTURAL REINFORCING STEEL:
- a. HIGH STRENGTH BOLTING
  - BEARING TYPE CONNECTIONS: PERIODIC
  - SLIP CRITICAL CONNECTIONS: PERIODIC
- b. WELDING OF STRUCTURAL STEEL:
  - FULL PENETRATION GROOVE WELDS: CONTINUOUS
  - MULTI-PASS FILLET WELDS: CONTINUOUS
  - SINGLE-PASS FILLET WELDS > 5/16": CONTINUOUS
  - SINGLE PASS FILL WELDS <= 5/16": PERIODIC
  - FLOOR AND DECK WELDS: PERIODIC
- c. WELDING OF REINFORCING STEEL:
  - WELDABILITY OF STEEL OTHER THAN ASTM A706: PERIODIC
  - SHEAR REINFORCEMENT: CONTINUOUS
  - OTHER REINFORCEMENT: PERIODIC
- d. INSPECTION OF STEEL FRAME AND JOISTS:
  - DETAILS SUCH AS BRACING AND STIFFENING: PERIODIC
  - MEMBER SIZES AND LOCATION: PERIODIC
  - APPLICATION OF CONNECTION DETAIL: PERIODIC
- e. CONCRETE CONSTRUCTION:
  - REINFORCING STEEL: PERIODIC (RANDOMLY AT 20%)
  - CONCRETE MIX DESIGN: PERIODIC AT EACH CONCRETE POUR
  - SAMPLING OF FRESH CONCRETE: CONTINUOUS (SEE NOTE 1)
  - MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES: PERIODIC AT EACH POUR
  - INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION OF TECHNIQUES: CONTINUOUS
  - INSPECTING OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS: PERIODIC
- f. SOILS (SLAB ON GRADE):
  - VISUAL OBSERVATIONS: PERIODIC
  - PROOF ROLLING OBSERVATION: CONTINUOUS
  - MOISTURE CONDITIOINING & RECOMPACTION: CONTINUOUS OR PERIODIC (ONE DENSITY TEST FOR EACH 2,000 SF)
  - DURING FILL PLACEMENT: CONTINUOUS OR PERIODIC
  - EVALUATION OF IN PLACE DENSITY FILL: CONTINUOUS OR PERIODIC
- g. PIERS:
  - OBSERVE DRILLING OPERATIONS AND COMPLETE RECORD OF DRILLING: CONTINUOUS
  - VERIFY PLACEMENTS LOCATIONS AND PLUMBNESS, LNEGTH, EMBEDMENT AND ADEQUATE BEARING STRENGTH CAPACITY, CONFIRM PIER DIAMETER, REINFORCING STEEL (RE: CONCRETE ABOVE): CONTINUOUS
- h. MASONRY:
  - VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS: PERIODIC
  - AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
    1. PROPORTIONS OF SITE-PREPARED MORTAR: PERIODIC
    2. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
    3. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES: PERIODIC
  - PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:
    1. GROUT SPACE: PERIODIC
    2. GRADE, TYPE AND SIZE REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES: PERIODIC
    3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES: PERIODIC.
    4. PROPORTIONS OF SITE-PREPARED GROUT: PERIODIC.
    5. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
  - VERIFY DURING CONSTRUCTION:
    1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS: PERIODIC.
    2. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION: PERIODIC
    3. WELDING OF REINFORCMENT: CONTINUOUS
    4. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)): PERIODIC
  - OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS: PERIODIC

NOTES:

- PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPEC'D VALUE.
- ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE PULL TESTED TO 110% FOR NO LESS THAN 3 MIN.
- ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
- CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
- PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

MASONRY

A. CONSTRUCT REINFORCED MASONRY IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES", ACI 530.1/ASC36. MASONRY ALLOWABLE DESIGN STRESSES ARE BASED UPON REQUIRING NO SPECIAL INSPECTION.
B. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 MINIMUM FACE THICKNESS SHALL BE 1.25". ALL WALLS ARE LIGHT WEIGHT BLOCKS (105 PCF OR LESS).
C. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL BOLTS USED FOR ANCHORAGE SHALL BE ASTM A307 HEADED BOLTS.
D. MASONRY STRENGTH (F'M) AT 28 DAYS SHALL BE A MINIMUM OF 2,000 PSI. USE TYPE M OR S MORTAR. MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. GROUT SHALL CONFORM TO ASTM C476. GROUT STRENGTH SHALL BE AT LEAST 2800 PSI.
E. PROVIDE MORTAR BED OR WEB BETWEEN GROUTED BED AND HOLLOW CELL. USE FULL HEAD AND BED JOINTS.
F. UNLESS SHOWN ON DETAILS, PROVIDE #9 LADDER OR TRUSS HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. PROVIDE 2-#5 AT ALL JAMBS AND ENDS OF WALLS.
G. GROUT SOLID THE FIRST CELL ON EITHER SIDE OF DOOR OPENINGS, UNLESS OTHERWISE NOTED. PROVIDE 8" U-BLOCK CMU LINTEL WITH 8" BEARING EACH END; REINFORCE WITH (2) # 4 BOTTOM.
H. EMBED ALL BOLTS IN FULL GROUTED CELL. PLACE BOLTS IN SAME VERTICAL CELL AS REINFORCING IF POSSIBLE. MINIMUM EMBEDDED LENGTH IS ONE-HALF WIDTH OF CELL.
I. // UNLESS SHOWN ON DETAILS, PROVIDE (2) #5 HORIZONTAL REINFORCEMENT IN FULLY GROUTED CELL AT 48" OC VERTICALLY.
J. GROUT SOLID THE FIRST CELL ON EACH LEVEL & ROOF. REINFORCE WITH HORIZONTAL AS PER NOTE 1. RE: TO DETAIL 9 ON THE TYPICAL CMU DETAIL SHEET.

REINFORCEMENT TABLE: NON-LOAD BEARING CMU WALL (CMU 2.0-60, 105 PCF)

INTERIOR WALLS = 10 PSF

UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
14'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
16'-0"	#4 @ 40" OC	#4 @ 48" OC	#4 @ 48" OC	
18'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
20'-0"	#4 @ 24" OC	#4 @ 40" OC	#4 @ 48" OC	
22'-0"	#4 @ 16" OC	#5 @ 32" OC	#4 @ 48" OC	
24'-0"		#5 @ 32" OC	#4 @ 40" OC	
26'-0"		#5 @ 24" OC	#4 @ 32" OC	
28'-0"		#6 @ 32" OC	#5 @ 40" OC	
30'-0"		#6 @ 24" OC	#5 @ 32" OC	
32'-0"		#6 @ 24" OC	#6 @ 32" OC	
34'-0"			#6 @ 24" OC	
36'-0"			#7 @ 32" OC	
38'-0"			#7 @ 32" OC	#7 @ 32" OC
40'-0"				#7 @ 32" OC

EXTERIOR WALLS = 30 PSF

UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 24" OC	#4 @ 32" OC	#4 @ 48" OC	
14'-0"	#4 @ 16" OC	#4 @ 32" OC	#4 @ 32" OC	
16'-0"	#6 @ 16" OC	#5 @ 24" OC	#5 @ 40" OC	
18'-0"		#5 @ 16" OC	#5 @ 24" OC	
20'-0"		#6 @ 16" OC	#5 @ 24" OC	
22'-0"		#6 @ 8" OC	#5 @ 16" OC	
24'-0"			#6 @ 16" OC	
26'-0"			#7 @ 16" OC	
28'-0"			#7 @ 8" OC	
30'-0"			#8 @ 8" OC	

NOTES:

1. DEFINITIONS:
   A. "H" CLEAR WALL HEIGHT, FEET, BETWEEN CONNECTIONS TO STRUCTURE.
   B. "U.R." UNREINFORCED WALL (NO VERTICAL REINFORCEMENT IS REQUIRED, EXCEPT AS DETAIL ON DRAWINGS AT OPENINGS, ETC.)
   C. "N.A." NOT APPLICABLE. THICKER WALL REQUIRED FOR SPAN.
2. SPECIFIED REINFORCING STEEL SHALL BE PLACED IN CENTER OF WALL. (Fy=60 ksi)
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR HORIZONTAL REINFORCING REQUIREMENTS.
4. THIS TABLE SHALL ONLY BE USED FOR VERTICALLY SPANNING C.M.U. WALLS.
5. SEE TYPICAL DETAILS FOR BRACING REQUIREMENTS AT THE TOP/ENDS OF THE WALL AND DOWELS TO THE STRUCTURE. REINFORCING STEEL SHALL BE CENTERED IN THE CMU WALL BY USING BAR POSITIONERS AT 8'-0" OC VERTICALLY.
6. SPLICING OF VERTICAL STEEL: SEE TYPICAL DETAIL FOR REQUIRED SLAP SPLICE LENGTHS.
7. FOR USE WITH PORTLAND CEMENT / LIME MORTAR.

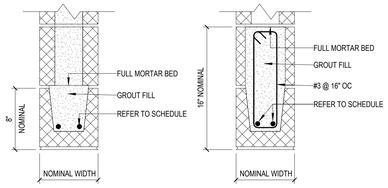
CONCRETE MASONRY UNIT (CMU) LINTEL SCHEDULE

A. PROVIDE 8" MINIMUM BEARING EACH END FOR CMU LINTELS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
B. CURVE CMU LINTEL AND REINFORCING FOR THE RADIUS OF THE WALL WHERE OCCURRING AND PROVIDE 1'-4" MINIMUM BEARING EACH END.

SPAN	6x8	6x16	8x8	8x16	10x8	10x16	12x8	12x16
3-4	1-#3		1-#3		2-#3		2-#3	
4-0	1-#4		2-#3		2-#3		2-#4	
4-8	2-#4		2-#4		2-#4		2-#4	
5-4	2-#4		2-#4		2-#4	2-#3	2-#5	
6-0	2-#4	1-#4		2-#3	2-#5	2-#4	2-#5	2-#4
6-8		1-#5		2-#4		2-#4	2-#6	2-#4
7-4		1-#5		2-#4		2-#4		2-#5
8-0		1-#6		2-#4		2-#5		2-#5
8-8		1-#6		2-#5		2-#5		2-#6
9-4		1-#7		2-#5		2-#6		2-#6

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 7 5/8".
3. REINFORCEMENT SHALL PROJECT A MINIMUM OF 6" ONTO THE BEARING.
4. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM f'm=1500 psi.
5. LINTELS SCHEDULED AS 16" HIGH MAY BE EITHER TYPE "B" OR TYPE "C" AS DETAILED BELOW.
6. PRECAST CONCRETE LINTELS AS SHOWN MAY BE USED WITH ARCHITECT'S APPROVAL. MINIMUM f'c = 3000 psi.

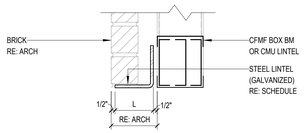


LOOSE VENEER LINTEL SCHEDULE

MASONRY OPENING	SIZE	DETAIL
LESS THAN 4'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
4'-0" BUT LESS THAN 5'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
5'-0" BUT LESS THAN 6'-0"	"L" X 5" X 1/4" BENT PL (LLH)	J
6'-0" BUT LESS THAN 8'-6"	"L" X 7" X 5/16" BENT PL (LLH)	J
8'-6" BUT LESS THAN 10'-0"	"L" X 7" X 3/8" BENT PL (LLH)	J

NOTES:

1. SEE DETAIL BELOW FOR TYPICAL LOOSE LINTEL HORIZONTAL LEG LENGTH "L". ALL DIMENSIONS PROVIDED MUST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
2. PROVIDE 8" MINIMUM BEARING EACH END FOR STEEL LOOSE LINTELS.
3. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
5. HOT DIP GALVANIZE ALL LINTELS AFTER FABRICATION.



SHORING REQUIREMENTS

A. DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY SHORING AND BRACING TO SAFELY SUPPORT THE EXISTING WALLS, FLOOR SLABS AND ROOF WHERE NEW OPENINGS ARE TO BE CUT INTO THE EXISTING WHERE LOAD-BEARING ELEMENTS ARE TO BE REMOVED.
B. SUBMIT CALCULATIONS, SHORING PROCEDURES AND DETAILS PREPARED, AND SEALED, BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF TEXAS, TO THE ARCHITECT FOR REVIEW PRIOR TO PRECEDING WITH THIS WORK.
C. SHORING AND BRACING WORK SHALL BE PERFORMED BY A SHORING CONTRACTOR WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN SIMILAR TYPE OF WORK.
D. PRIOR TO START OF WORK, ESTABLISH AND DOCUMENT ELEVATIONS OF THE EXITING CONSTRUCTION AT INTERVALS ALONG THE WALLS TO BE REMOVED. CONTINUOUSLY MONITOR THE ELEVATION DURING DEMOLITION AND CONSTRUCTION OPERATIONS. METHOD OF SHORING SHOULD HAVE PROVISIONS FOR VERTICAL ADJUSTMENT TO MAINTAIN ELEVATIONS OF EXISTING CONSTRUCTION.

DEMOLITION

A. CONDUCT DEMOLITION OPERATIONS IN EXTREMELY CAREFUL MANNER IN ORDER TO PREVENT ANY DAMAGES TO ALL EXISTING CONSTRUCTION AND TO MINIMIZE INTERFERENCE WITH ADJACENT "STRUCTURES"
B. PREVENT THE MOVEMENT, SETTLEMENT, DAMAGE OR INJURY TO ADJACENT STRUCTURES, PROVIDE & PLACE BRACING OR SHORING & BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE ADJACENT STRUCTURES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, OR INJURY.
C. CEASE OPERATIONS & NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SAFETY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT EXISTING STRUCTURES PROPERLY. DO NOT RESUME OPERATIONS UNTIL THE FULL SAFETY IS RESTORED.
D. PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT SERVICES, SIDEWALKS, DRIVEWAYS & TREES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. REPAIR DAMAGE PROMPTLY AT NO COST TO THE OWNER.
E. DEMOLISH INDICATED STRUCTURES & APPURTENANCE IN AN ORDERLY AND CAREFUL MANNER.
F. PERFORM DEMOLITION IN ACCORDANCE WITH THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
G. REMOVE FOUNDATION WALLS & FOOTINGS AS INDICATED ON DEMOLITION DRAWINGS TO A MINIMUM 3' FEET BELOW FINISH GRADE.
H. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT INDICATED, AT NO COST TO THE OWNER OR THE ARCHITECT/ENGINEER.
I. REPAIR DAMAGE TO ADJACENT STRUCTURES CAUSED AS THE RESULT OF THIS WORK AT NO COST TO THE OWNER OF THE ARCHITECT/ENGINEER.

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Texas Registered Engineering Firm F-003426
D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

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09/24/2025

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
GENERAL STRUCTURAL CRITERIA

Project No.	Scale
214001246	1 1/2" = 1'-0"
Revision	Drawing No.

S102-PES

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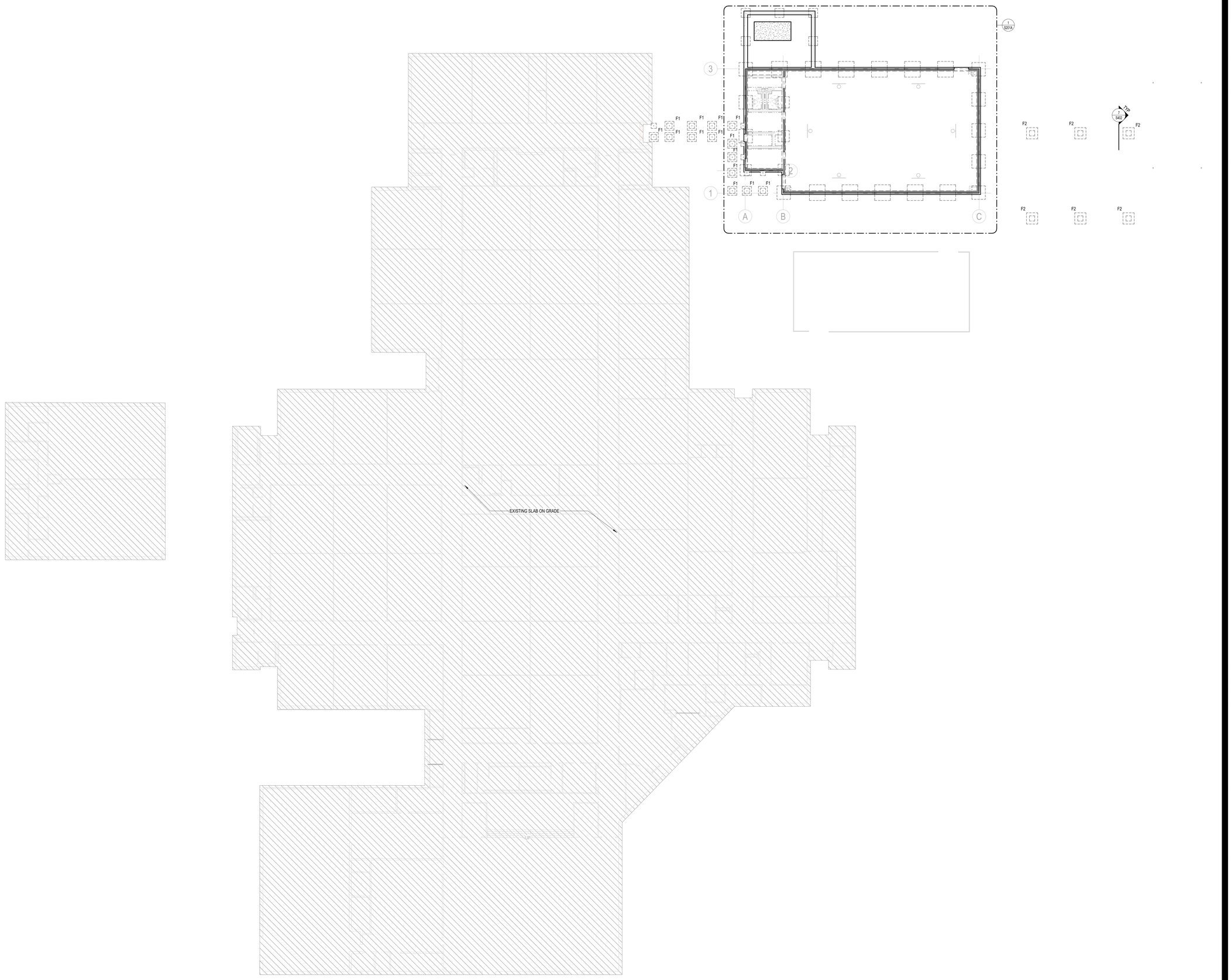

1 COMPOSITE FOUNDATION PLAN
1/16" = 1'-0"

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Notes

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
FOUNDATION PLAN - COMPOSITE

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.

S201-PES

ORIGINAL SHEET - ARCH E1

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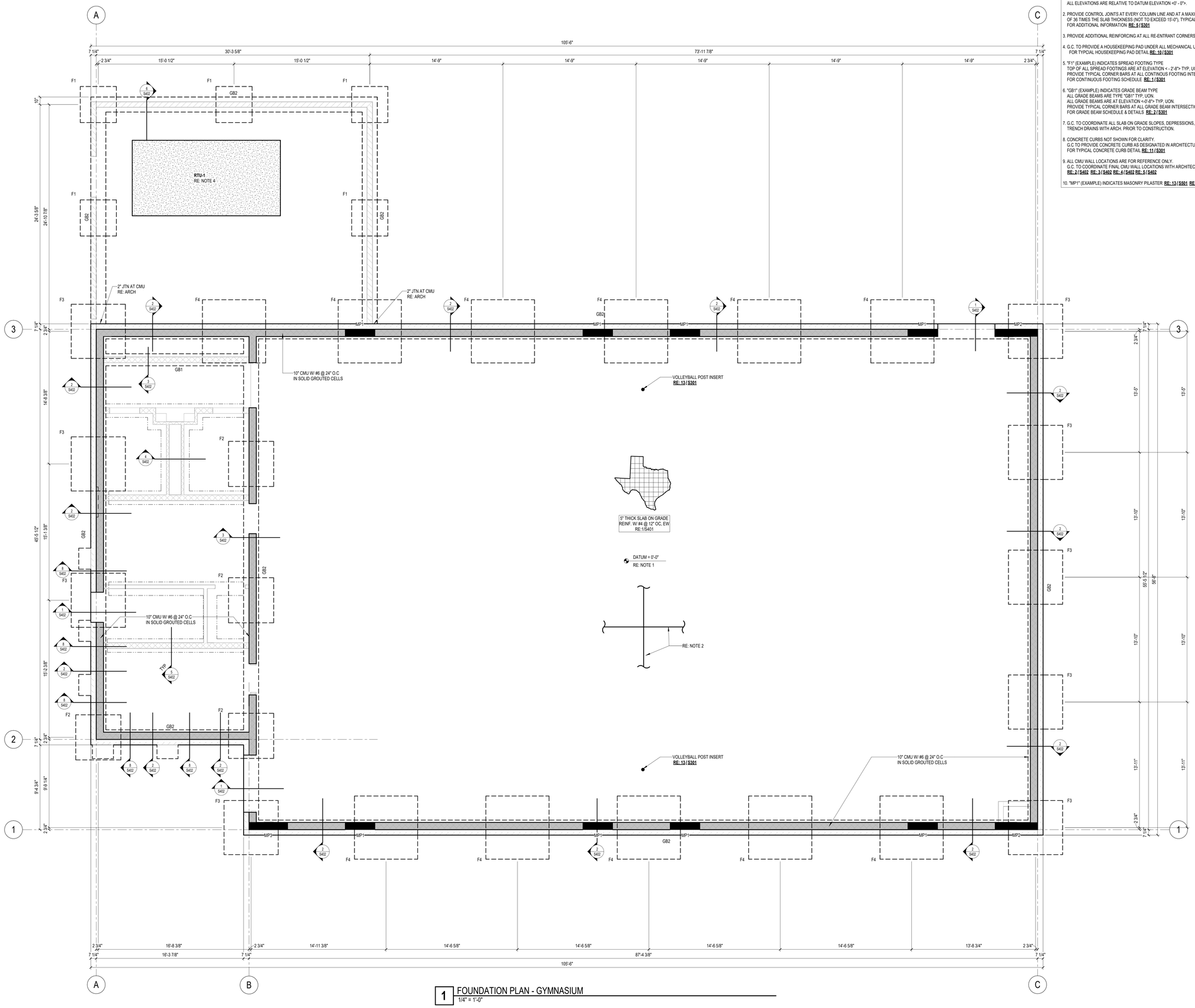

1 FOUNDATION PLAN - GYMNASIUM
1/4" = 1'-0"

FOUNDATION NOTES:

1. DATUM ELEVATION <0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL.
   ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION <0' - 0">.
2. PROVIDE CONTROL JOINTS AT EVERY COLUMN LINE AND AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 15'-0"), TYPICAL UON.
   FOR ADDITIONAL INFORMATION **RE: 5 / S201**
3. PROVIDE ADDITIONAL REINFORCING AT ALL RE-ENTRANT CORNERS **RE: 7 / S301**
4. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS.
   FOR TYPICIAL HOUSEKEEPING PAD DETAIL **RE: 10 / S301**
5. "F1" (EXAMPLE) INDICATES SPREAD FOOTING TYPE
   TOP OF ALL SPREAD FOOTINGS ARE AT ELEVATION < - 2'-8"> TYP, UON.
   PROVIDE TYPICAL CORNER BARS AT ALL CONTINOUS FOOTING INTERSECTIONS
   FOR CONTINUOUS FOOTING SCHEDULE **RE: 1 / S301**
6. "GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE
   ALL GRADE BEAMS ARE TYPE "GB1" TYP, UON.
   ALL GRADE BEAMS ARE AT ELEVATION <-0'-8"> TYP, UON.
   PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS
   FOR GRADE BEAM SCHEDULE & DETAILS **RE: 2 / S301**
7. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH. PRIOR TO CONSTRUCTION.
8. CONCRETE CURBS NOT SHOWN FOR CLARITY.
   G.C TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS.
   FOR TYPICAL CONCRETE CURB DETAIL **RE: 11 / S301**
9. ALL CMU WALL LOCATIONS ARE FOR REFERENCE ONLY.
   G.C. TO COORDINATE FINAL CMU WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS
   RE: 2 / S402 RE: 3 / S402 RE: 4 / S402 RE: 9 / S402
10. "MP1" (EXAMPLE) INDICATES MASONRY PILASTER **RE: 13 / S501 RE: 14 / S501 RE: 15 / S501**

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FRED DALLY 90904 LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
FOUNDATION PLAN - GYMNASIUM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

S201A-PES

*Pick location in Project Information>
1/22/2025 1:01:33 AM
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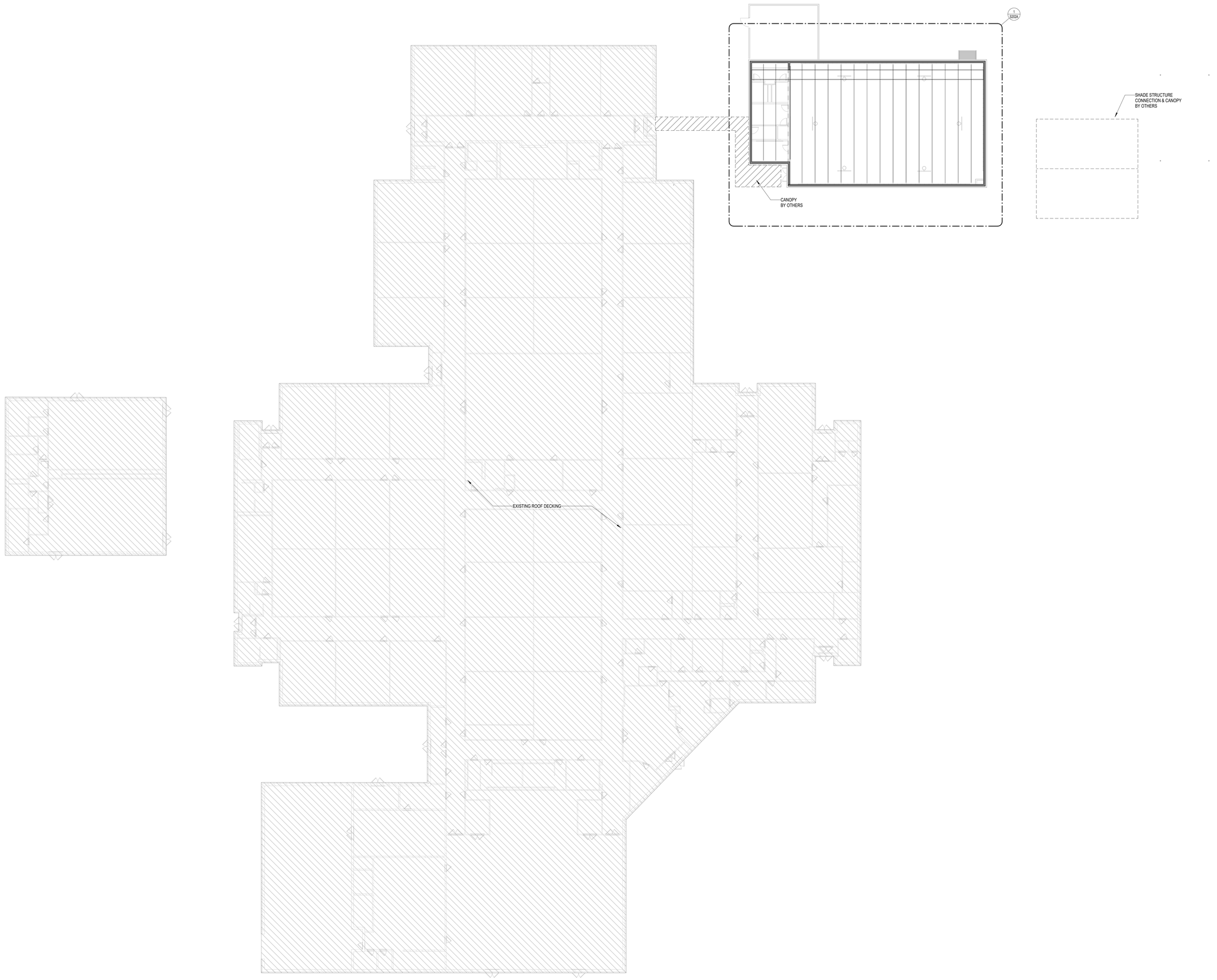

1 COMPOSITE ROOF FRAMING PLAN
1/16" = 1'-0"

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ROOF FRAMING PLAN - COMPOSITE

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.
	S202-PES

Pick location in Project Information
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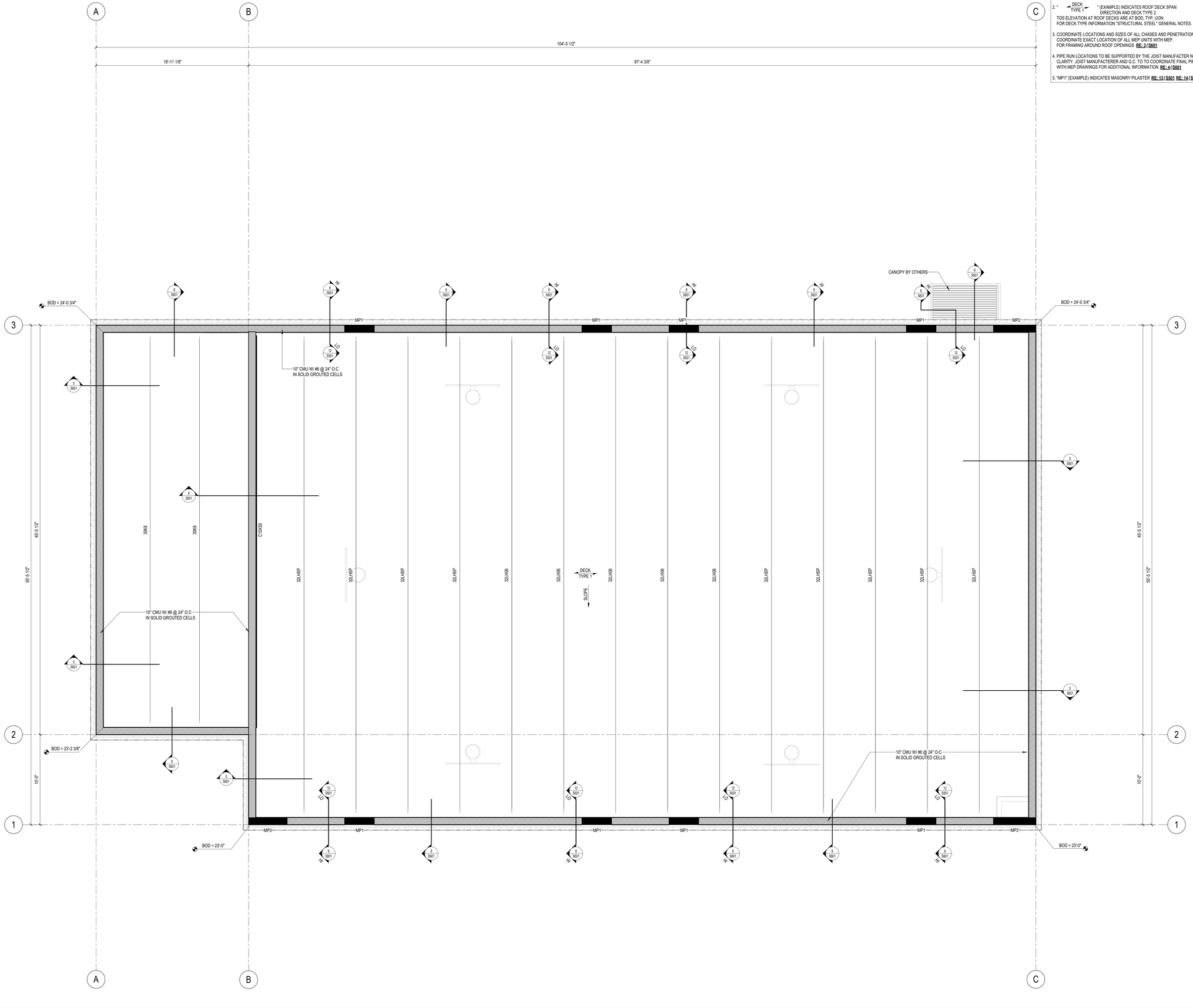
ORIGINAL SHEET - ARCH E1



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D + A PROJECT 24-291-00

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	JT	AR	LMM	2025.04.11

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LICENSED PROFESSIONAL ENGINEER
FRED DALLY
90904
STATE OF TEXAS
09/24/2025

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2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

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4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ROOF FRAMING PLAN - GYMNASIUM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

S202A-PES

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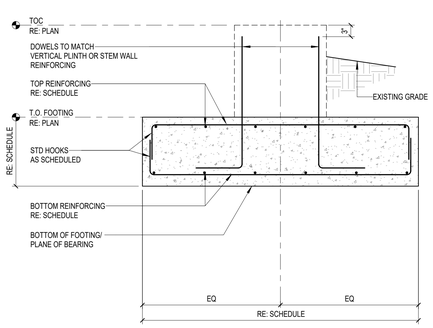
•Plot location in Project Information
•9/22/2025 9:55:13 AM
ORIGINAL SHEET - ARCH E1

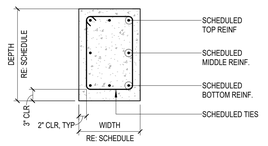
SPREAD / CONTINUOUS FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCING		REMARKS
	LENGTH	WIDTH	THICKNESS	BOTTOM	TOP	
F1	4'-0"	4'-0"	1'-5"	#5 @ 12" OC, EW		
F2	5'-0"	5'-0"	1'-5"	#5 @ 12" OC, EW		



1. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW
2. THE INDEPENDENT TESTING LABORATORY SHALL CONFIRM THE ALLOWABLE SOIL BEARING CAPACITY IN THE FIELD AT THE ELEVATION DESIGNATED AS THE PLANE OF BEARING FOR THE FOOTING.
   A. ALLOWABLE BEARING PRESSURE OF **2700 PSF** FOR SUSTAINED LOAD.
   B. ALLOWABLE BEARING PRESSURE OF **4550 PSF** FOR TOTAL LOAD.
3. THE INDEPENDENT TESTING LABORATORY SHALL INSPECT THE BOTTOM AND SIDES OF THE FOOTING PRIOR TO PLACING REINFORCING AND CONCRETE.
4. CENTER ALL SPREAD FOOTINGS UNDER THEIR COLUMNS, WALLS, OR GRADE BEAMS U.O.N.
5. PUMP OUT ANY STANDING WATER AND IMMEDIATELY PLACE REINFORCING STEEL AND CONCRETE.
6. PROVIDE NEW DEFORMED BILLET REINFORCING STEEL FOR FOOTINGS CONFORMING TO ASTM A615, GRADE 60.
7. UNIFORMLY DISTRIBUTE ALL SCHEDULE REINFORCING.
8. PROVIDE (2) #5 X 6'-0" LONG BARS @ 6" OC, TYPICAL AT EACH RE-ENTRANT CORNER.

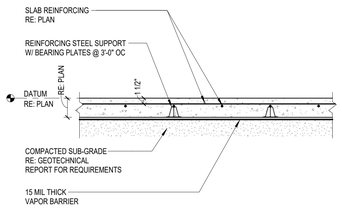
1 30C1 - Spread Footing Schedule
3/4" = 1'-0"

GRADE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	TOP REINF.	MIDDLE REINF.	BOTTOM REINF.	TIES (OC, TYP)
GB1	1'-4"	2'-0"	(3) #7	-	(3) #7	#4 @ 10"
GB2	1'-8"	2'-0"	(3) #7	-	(3) #7	#4 @ 10"

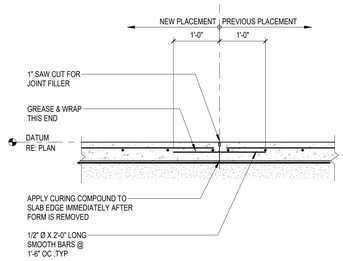


TYPICAL SECTION

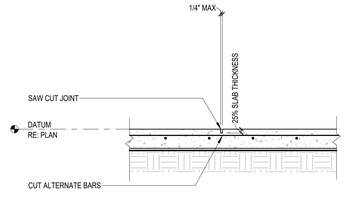
2 GRADE BEAM SCHEDULE
3/4" = 1'-0"



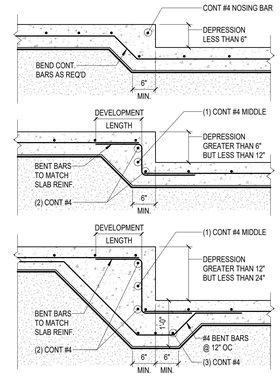
3 TYPICAL SLAB SECTION
3/4" = 1'-0"



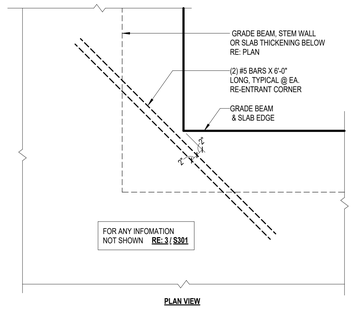
4 TYPICAL SECTION - CONSTRUCTION JOINT
3/4" = 1'-0"



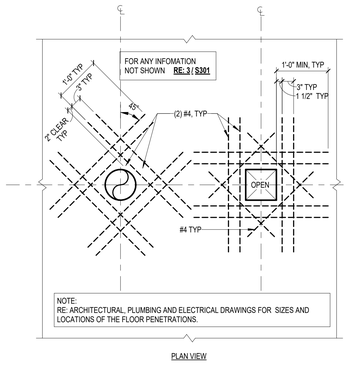
5 TYPICAL SECTION - CONTROL JOINT
3/4" = 1'-0"



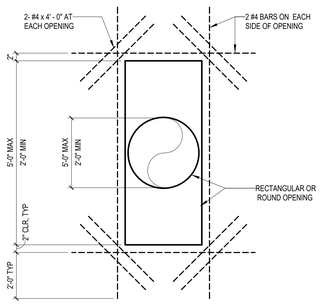
6 TYPICAL SLAB DEPRESSION DETAILS
3/4" = 1'-0"



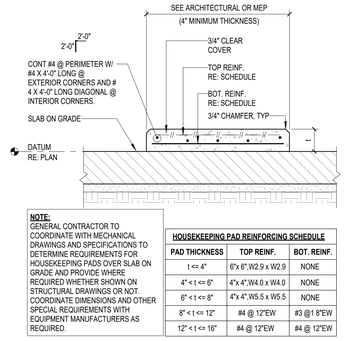
7 TYPICAL RE-ENTRANT CORNER REINF.
3/4" = 1'-0"



8 SLAB REINF. AT OPENING 2'-0" OR LESS
3/4" = 1'-0"



9 SLAB REINF. AT OPENING 5'-0" OR LESS
3/4" = 1'-0"

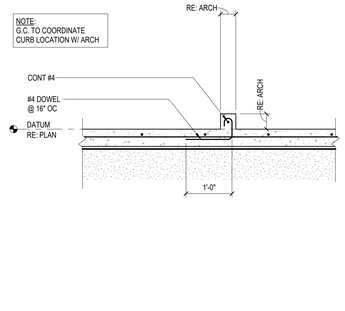


NOTE:
GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB ON GRADE AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.

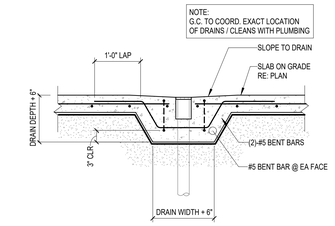
HOUSEKEEPING PAD REINFORCING SCHEDULE

PAD THICKNESS	TOP REINF.	BOT. REINF.
t <= 4"	6"x 6",W2.9 x W2.9	NONE
4" < t <= 6"	4"x 4",W4.0 x W4.0	NONE
6" < t <= 8"	4"x 4",W5.5 x W5.5	NONE
8" < t <= 12"	#4 @ 12"EW	#3 @1 8"EW
12" < t <= 16"	#4 @ 12"EW	#4 @ 12"EW

10 TYPICAL HOUSEKEEPING PAD DETAIL
3/4" = 1'-0"



11 TYPICAL CURB DETAIL
3/4" = 1'-0"



12 TYPICAL SLAB THICKENING AT SINK DRAIN
3/4" = 1'-0"

13 FOUNDATION @ VOLLEYBALL SLEEVE
3/4" = 1'-0"

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Consultant

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F-003426

D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JT	AR	2025.04.11
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

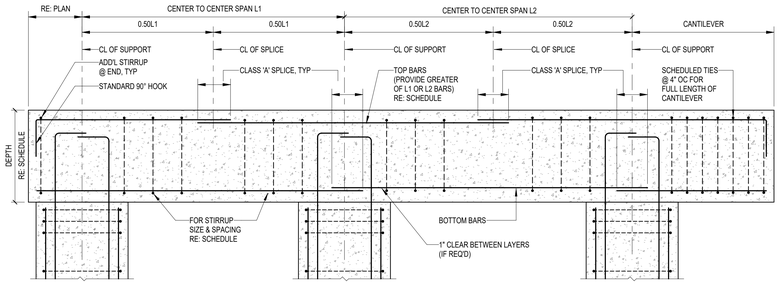
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
FOUNDATION SCHEDULE & TYPICAL SLAB ON GRADE DETAILS

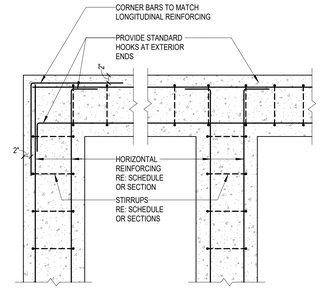
Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.

S301-PES

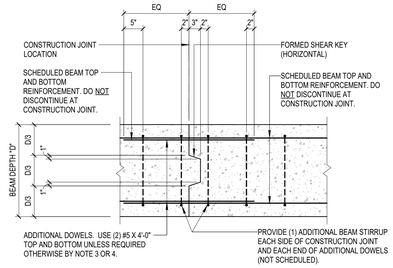
*Plot location in Project Information
7/22/2025 9:01:46 AM
ORIGINAL SHEET - ARCH E1



1 TYPICAL GRADE BEAM REINF. ELEVATION
3/4" = 1'-0"

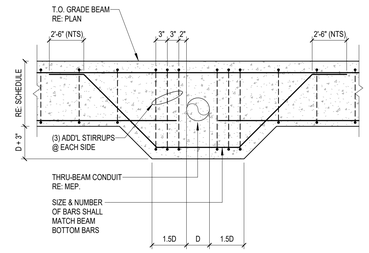


2 TYPICAL GRADE BEAM REINF. AT INTERSECTION
3/4" = 1'-0"

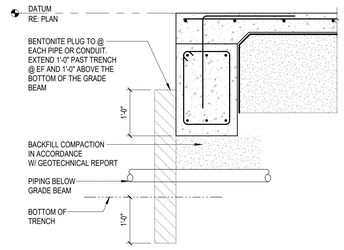


NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEK PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: PLACE JOINT MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

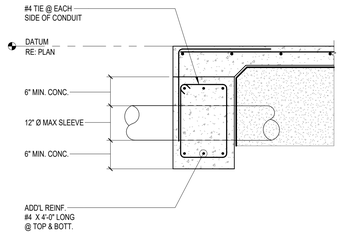
3 TYPICAL GRADE BEAM CONSTRUCTION JOINT
3/4" = 1'-0"



4 TYPICAL THRU. BEAM CONDUIT
3/4" = 1'-0"

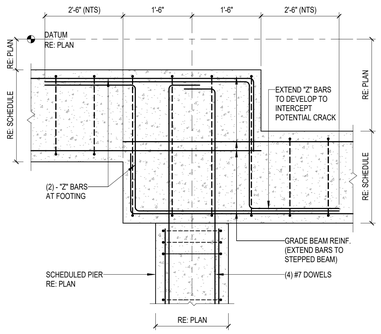


CONDUIT BELOW GRADE BEAM

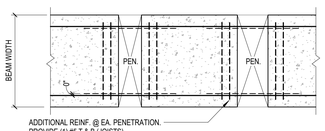


CONDUIT BELOW THROUGH GRADE BEAM

5 TYPICAL CONDITION AT CONDUIT
3/4" = 1'-0"



ELEVATION



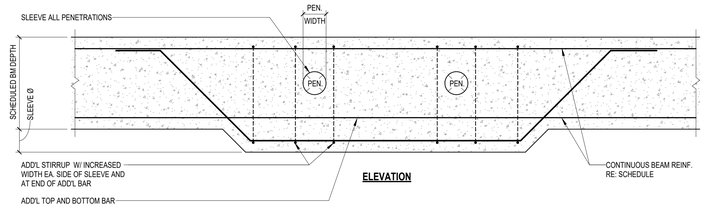
PLAN

NOTES:

1. GENERAL CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN THEIR CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS AND JOISTS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SUBMIT DRAWINGS, SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.
3. "D" DENOTES THE DEPTH OF BEAM OR JOIST.
4. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
5. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   A. FOR BEAMS (AND JOIST) NOT SUPPORTING INTERSECTING BEAMS (OR JOISTS): LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   B. FOR BEAMS (OR JOISTS) SUPPORTING INTERSECTING BEAMS (OR JOISTS): CHECK WITH STRUCTURAL ENGINEER.
   C. FOR LOCATIONS AND /OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

7 HORIZONTAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"

6 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"



ELEVATION

NOTES:

1. REQUIRED BEAM SLEEVES ARE TO BE COORDINATED WITH M.E.P. CONTRACTORS. REQUIRED SLEEVES MAY BE OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. CONTINUOUS BEAM REINFORCING MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OR OFFSET, OR BEND REINFORCING.
3. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 2". IF OUTSIDE DIAMETER OF IS GREATER THAN 2", THE WIDTH OF THE BEAM SHALL BE INCREASED BY THE PENETRATION DIMENSION (6" MAX). THE INCREASED WIDTH HALL EXTEND 1'-6" ON EACH SIDE OF THE PENETRATION. ADD (1) ADDITIONAL TOP AND BOTTOM BAR AND ADD'L STIRRUPS AT THICKENED PORTION. NO REBAR SHALL BE CUT TO ALLOW FOR THE PENETRATION
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.

8 VERTICAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"

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Texas Registered Engineering Firm F-003426

D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

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	JT	AR	LMM	2025.04.11

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

TYPICAL GB AND CF DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.

S401-PES

•Plot location in Project Information
•2/2/2025 9:51:43 AM
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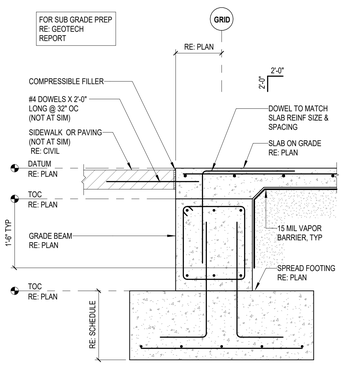
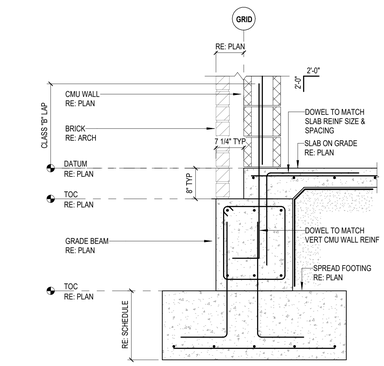
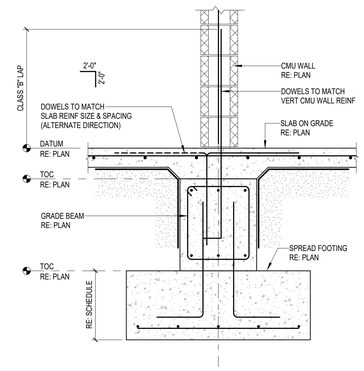


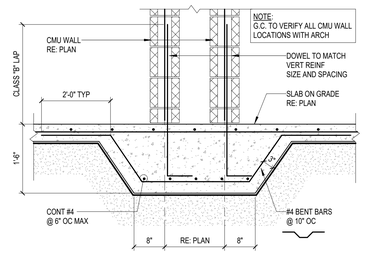
1 FOUNDATION SECTION
3/4" = 1'-0"



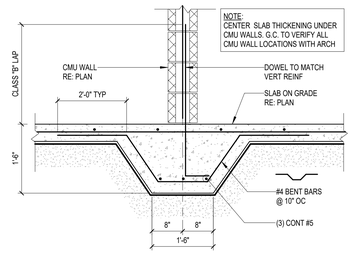
2 FOUNDATION SECTION
3/4" = 1'-0"



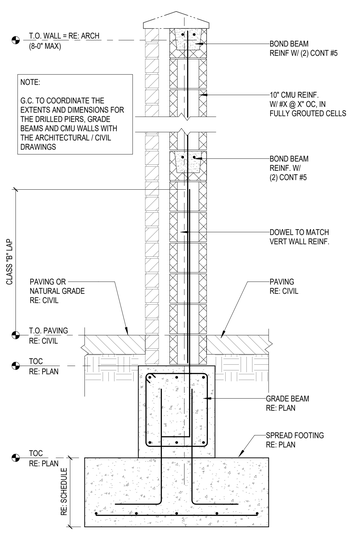
3 FOUNDATION SECTION
3/4" = 1'-0"



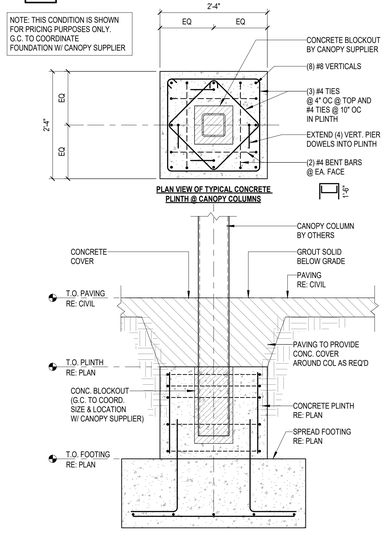
4 TYPICAL SLAB THICKEING AT CMU (11'-0" OR LESS)
3/4" = 1'-0"



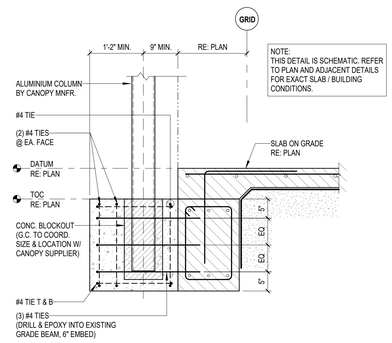
5 TYPICAL SLAB THICKENING AT CMU (11'-0" OR LESS)
3/4" = 1'-0"



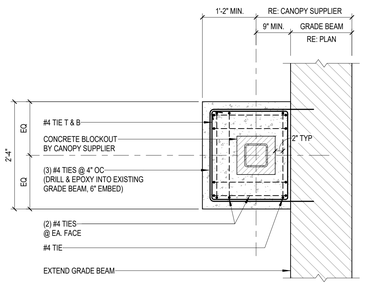
6 TYPICAL CMU SCREEN WALL (8'-0" MAX)
3/4" = 1'-0"



7 TYPICAL AVADEK CANOPY FOUNDATION FOOTING
3/4" = 1'-0"



8 SECTION AT CANOPY COLUMN
3/4" = 1'-0"



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F-003435

D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	JT	AR	LMM	2025.04.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
SOG @ STRUCTURAL STEEL (GB / FOOTING)

Project No.	Scale
214001246	3/4" = 1'-0"

Revision | Drawing No.

S402-PES

«Pck location in Project Information»
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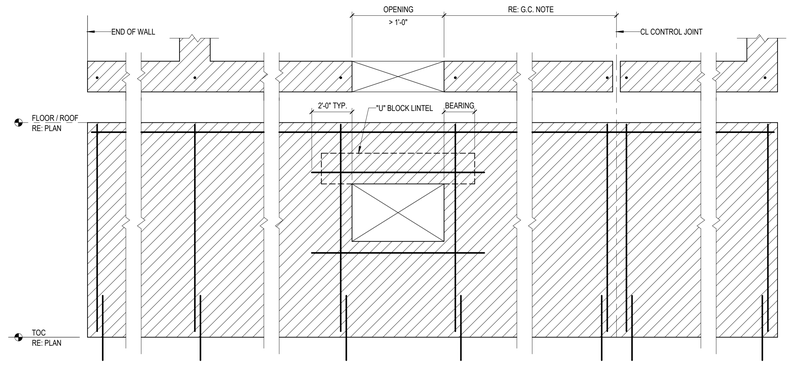


TYPICAL REINFORCED MASONRY NOTES

TYPICAL HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE AS NOTED ON THE PLAN SHEET. ADDITIONAL REINFORCING SHALL BE AS FOLLOWS

1. (2) #6 VERTICAL REINFORCING BARS SHALL BE PROVIDED, CONTINUOUSLY FROM SUPPORT TO SUPPORT (FINISHED FLOOR TO ROOF) AT:

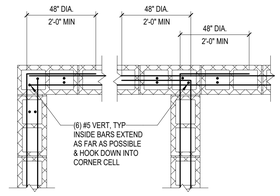
   A. WITHIN 8" OF EACH END OF WALL
   B. EACH WALL INTERSECTION
   C. WITHIN 16" OF EACH SIDE OF A MASONRY OPENING .
   D. WITHIN 8" OF EACH SIDE OF A MASONRY MOVEMENT JOINTS
   E. EACH CORNER OF THE BUILDING
   F. AT 16" OC, FULL HEIGHT

2. (2) #5 HORIZONTAL REINFORCING BARS SHALL BE PROVIDED AT:

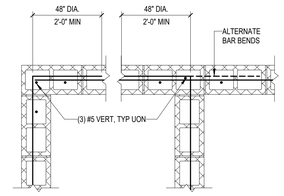
   A. TOP AND BOTTOM OF MASONRY OPENINGS
   B. FLOOR AND ROOF LEVELS, CONTINUOUS
   C. WITHIN 16" OF THE TOP OF MASONRY WALLS, CONTINUOUS.
   D. 8'-0" OC

GC NOTE:
DO NOT LOCATE CONTROL JOINTS WITHIN HALF THE LENGTH OF THE LINTEL (2'-0" MIN) ADJACENT TO THE ROUGH OPENING.

ALL HORIZONTAL REINFORCING WILL BE CONTINUOUS ACROSS CONTROL JOINTS

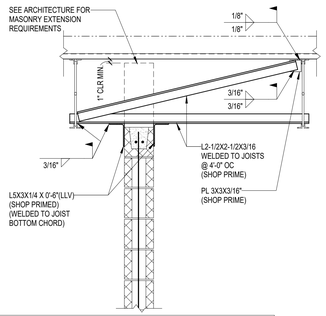


DOUBLE CURTAIN



SINGLE CURTAIN

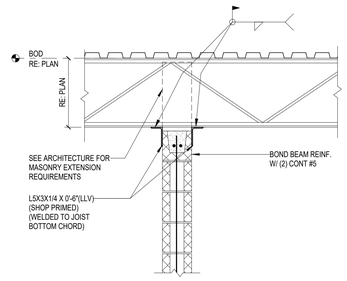
1 TYPICAL CMU WALL ELEVATION
3/4" = 1'-0"



NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

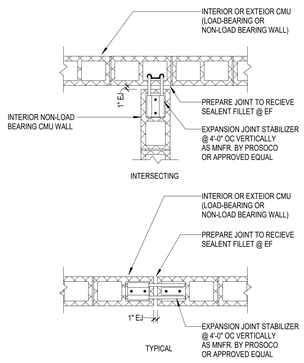
2 TYPICAL CMU WALL INTERSECTION
3/4" = 1'-0"



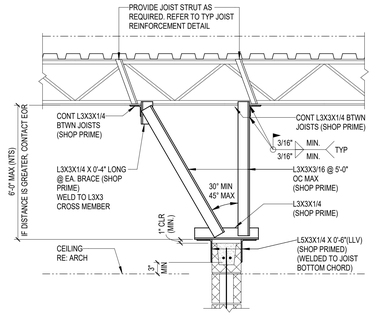
NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

3 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"

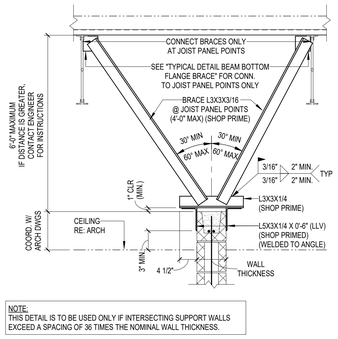


4 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"



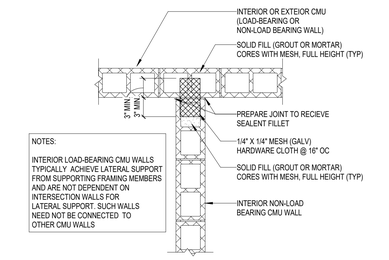
NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

5 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"



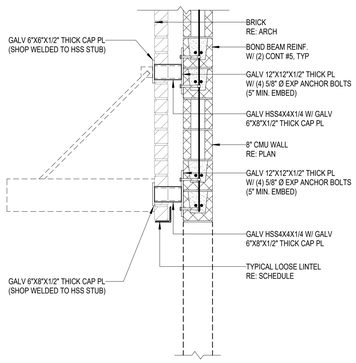
NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

6 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"

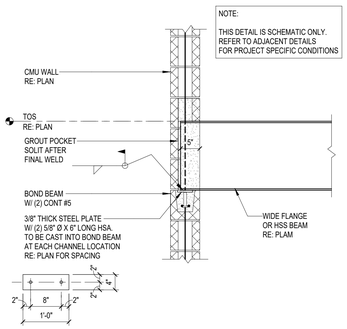


7 TYPICAL CMU EXPANSION JOINT
3/4" = 1'-0"

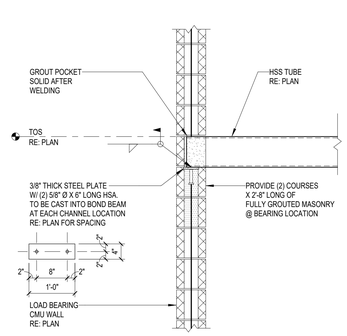
8 TYPICAL CMU EXPANSION JOINT
3/4" = 1'-0"



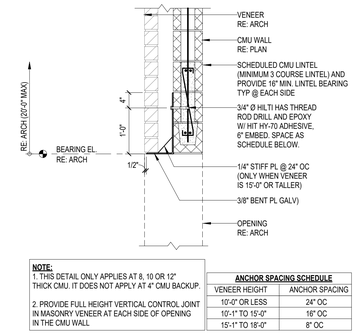
9 TYPICAL CMU @ CANOPY (BRICK)
3/4" = 1'-0"



10 TYPICAL LB CMU @ STL BM
3/4" = 1'-0"



11 TYPICAL LB CMU @ STL BM
3/4" = 1'-0"



NOTE:
1. THIS DETAIL ONLY APPLIES AT 8, 10 OR 12" THICK CMU. IT DOES NOT APPLY AT 4" CMU BACKUP.

2. PROVIDE FULL HEIGHT VERTICAL CONTROL JOINT IN MASONRY VENEER AT EACH SIDE OF OPENING IN THE CMU WALL

ANCHOR SPACING SCHEDULE	
VENEER HEIGHT	ANCHOR SPACING
10'-0" OR LESS	24" OC
10'-1" TO 15'-0"	16" OC
15'-1" TO 18'-0"	8" OC

12 CMU BRICK LINTEL
3/4" = 1'-0"

13 MASONRY PILASTER DETAIL (MP1)
3/4" = 1'-0"

14 MASONRY PILASTER DETAIL (MP2)
3/4" = 1'-0"

15 MASONRY PILASTER DETAIL (MP3)
3/4" = 1'-0"

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9800 Richmond Avenue, Suite 460
Houston, Texas 77042
t 713 337 8881
Texas Registered Engineering Firm
F-003426
D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	JT	AR	LMM	2025.04.11

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

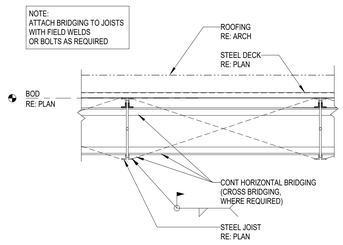
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TYPICAL CMU WALL DETAILS

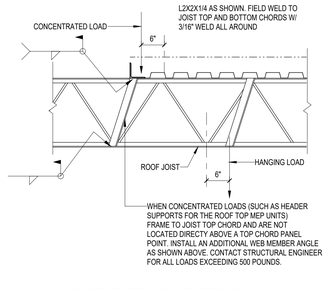
Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.
	S501-PES

*Plot location in Project Information
10/2/2025 9:01:48 AM

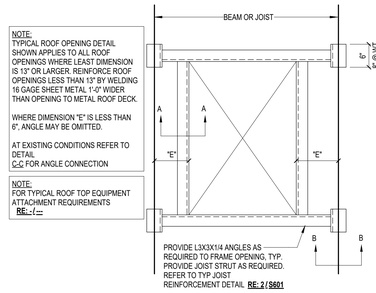
ORIGINAL SHEET - ARCH E1



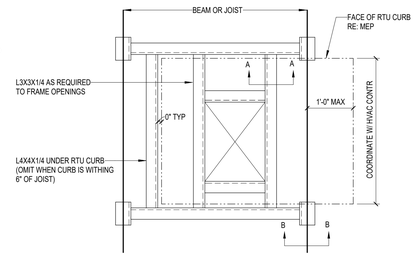
1 TYPICAL JOIST BRIDGING
3/4" = 1'-0"



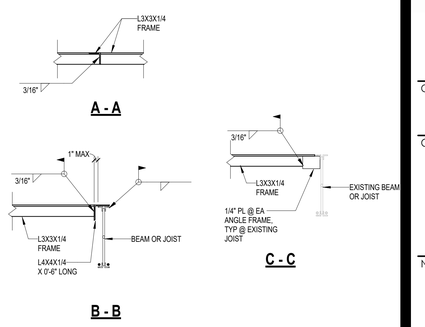
2 TYPICAL OFFSET LOAD JOIST SUPPORT
3/4" = 1'-0"



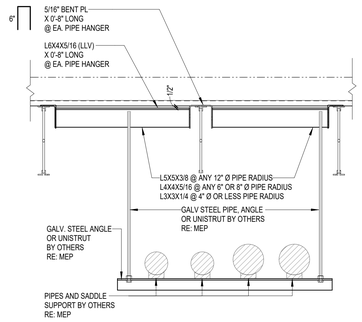
TYPICAL ROOF OPENING - PLAN VIEW



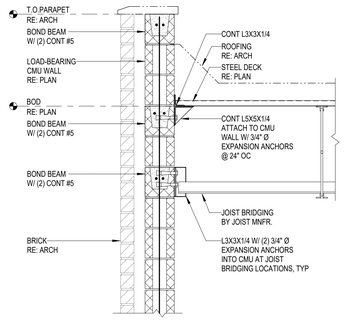
TYPICAL RTU SUPPORT DETAILS



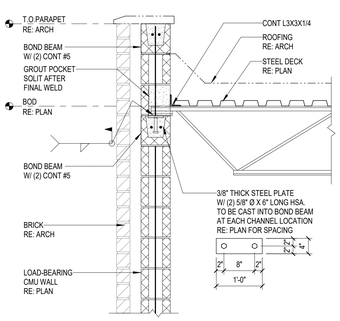
3 TYPICAL RTU CURB OPENING
3/4" = 1'-0"



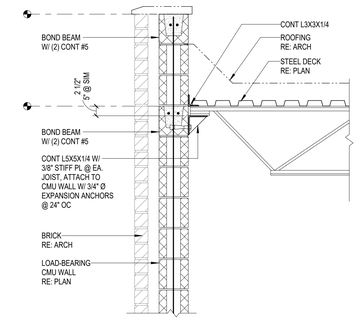
4 TYPICAL PIPE LOAD SECTION
3/4" = 1'-0"



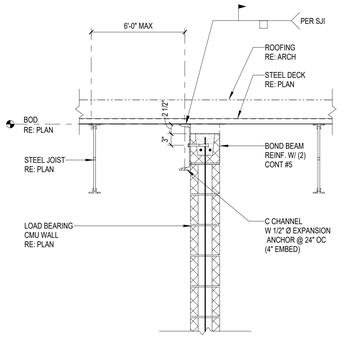
5 LOAD BEARING CMU ROOF SECTION
3/4" = 1'-0"



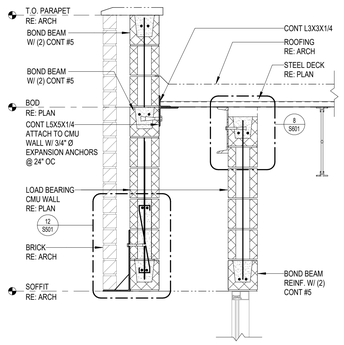
6 LOAD BEARING CMU ROOF SECTION
3/4" = 1'-0"



7 LOAD BEARING CMU ROOF SECTION
3/4" = 1'-0"



8 LOAD BEARING CMU INTERIOR
3/4" = 1'-0"



9 LOAD BEARING CMU ROOF SECTION
3/4" = 1'-0"

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t 713 337 8881
Texas Registered Engineering Firm F-003426

D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JT Dwn.	AR Dsgn.	LMM Chkd. 2025.04.11 YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TYPICAL STEEL & CMU WALL ROOF DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"
Revision	Drawing No.
	S601-PES

*Plot location in Project Information
4/2/2025 9:51:31 AM
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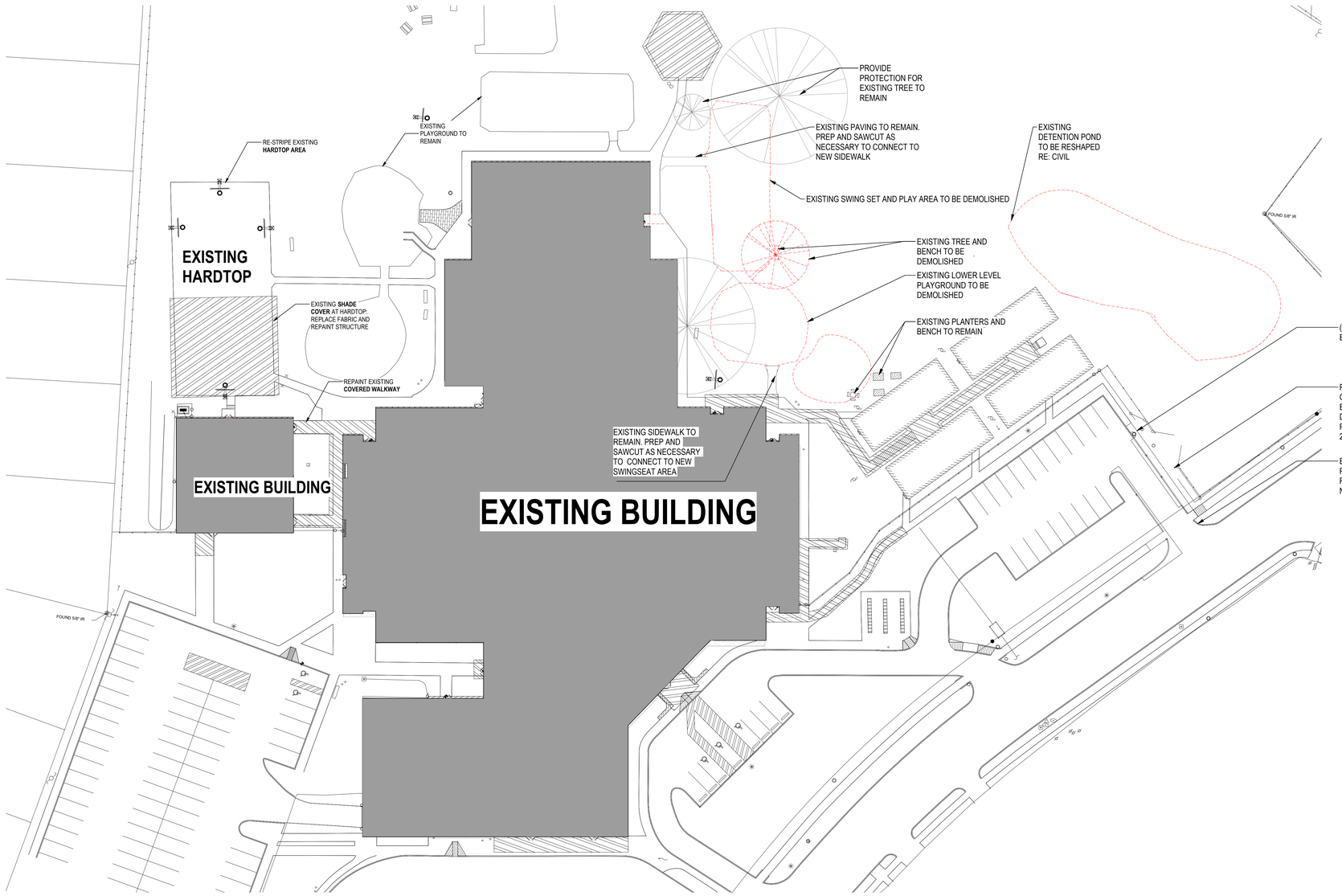

A1 ASD100 PES

DEMOLITION ARCHITECTURAL SITE PLAN

1" = 30'-0"

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Issued	By	Appd	YYYY.MM.DD
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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	12/07/24 YYYY.MM.DD

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

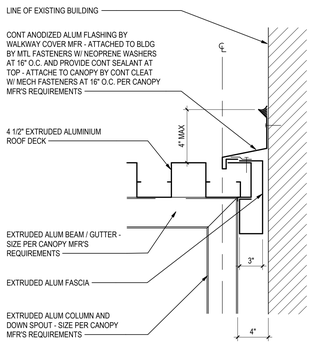
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

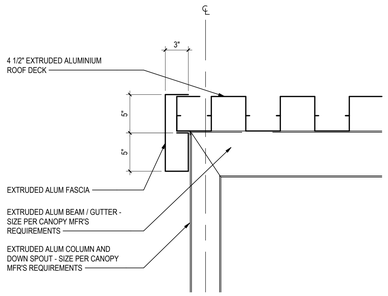
ARCHITECTURAL SITE DEMOLITION PLAN

Project No.	Scale
214001246	1" = 30'-0"
Revision	Drawing No.
	ASD100 - PES

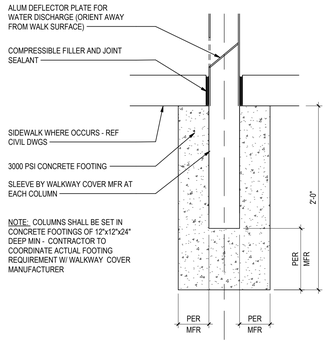
<Plot location in Project Information>
12/2/2025 4:49:21 AM
ORIGINAL SHEET - ARCH E1



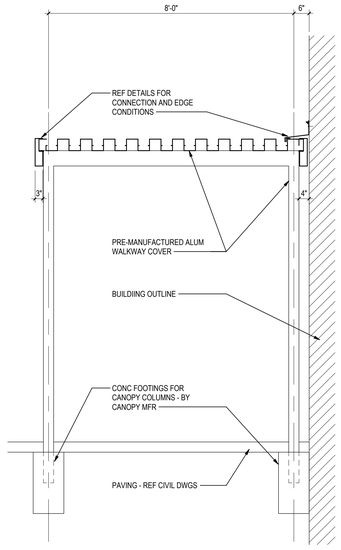
D1 AS001 — **WALKWAY COVER DETAILS**
1 1/2" = 1'-0"
PES



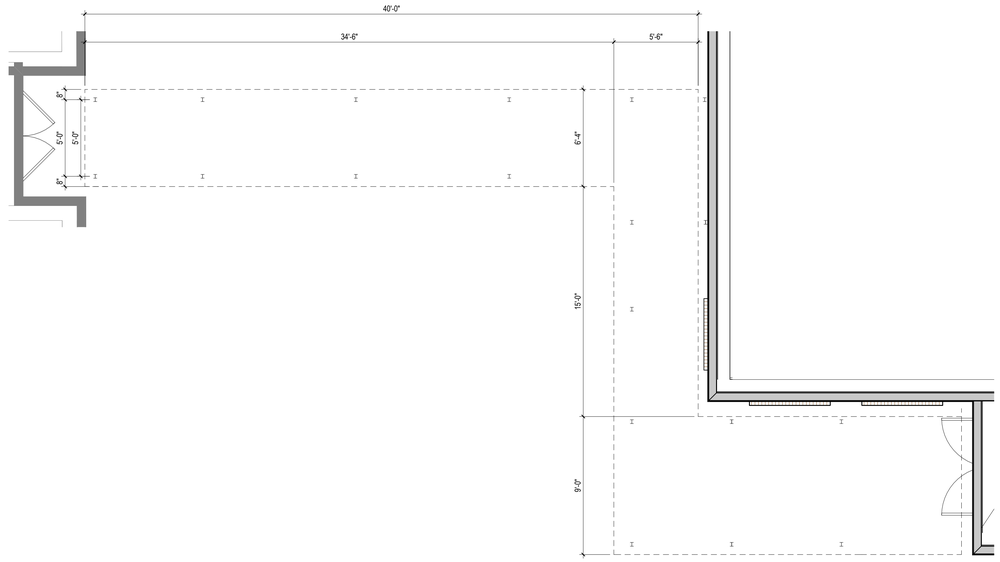
B1 AS001 — **WALKWAY COVER DETAILS**
1 1/2" = 1'-0"
PES



A1 AS001 — **WALKWAY COVER DETAILS**
1 1/2" = 1'-0"
PES



A2 AS001 — **WALKWAY COVER DETAILS**
1/2" = 1'-0"
PES



A3 AS001 — **ENLARGED WALKWAY COVER PLAN**
1/4" = 1'-0"
PES

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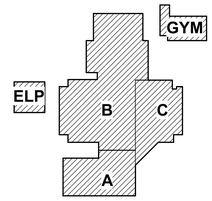

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	02/09/09
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT · DANIELLE DUNN · 28298 · STATE OF TEXAS

Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
WALKWAY COVER DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AS001 - PES

<Plot location in Project Information>
1/2/2025 4:48:39 AM

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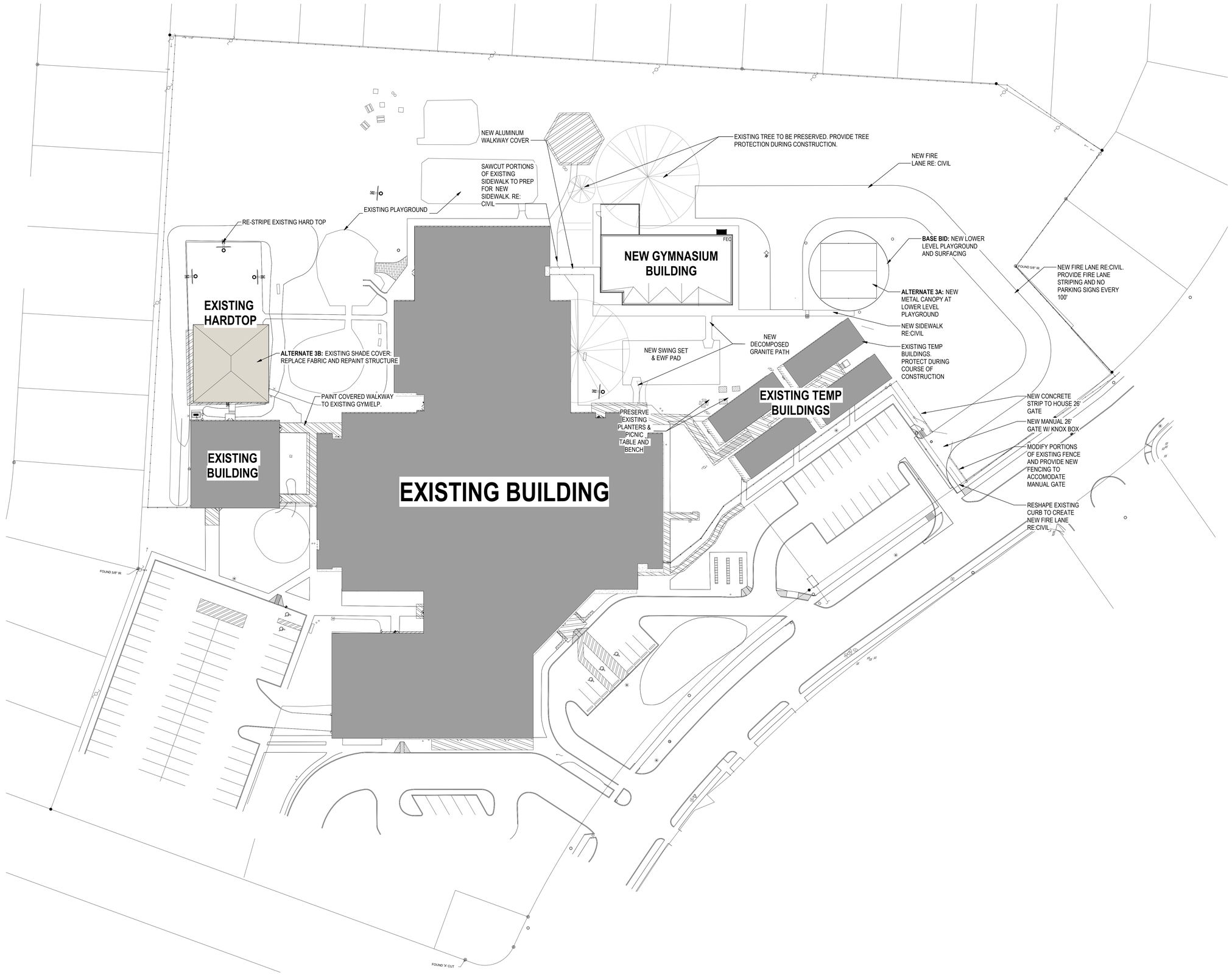

A1 AS100 — **ARCHITECTURAL SITE PLAN**
1" = 30'-0"
PES - A

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ARCHITECTURAL SITE PLAN_ALTERNATE

Project No.	Scale
214001246	1" = 30'-0"
Revision	Drawing No.

AS100 - PES - A

<Plot location in Project Information>
12/5/2025 4:48:51 AM
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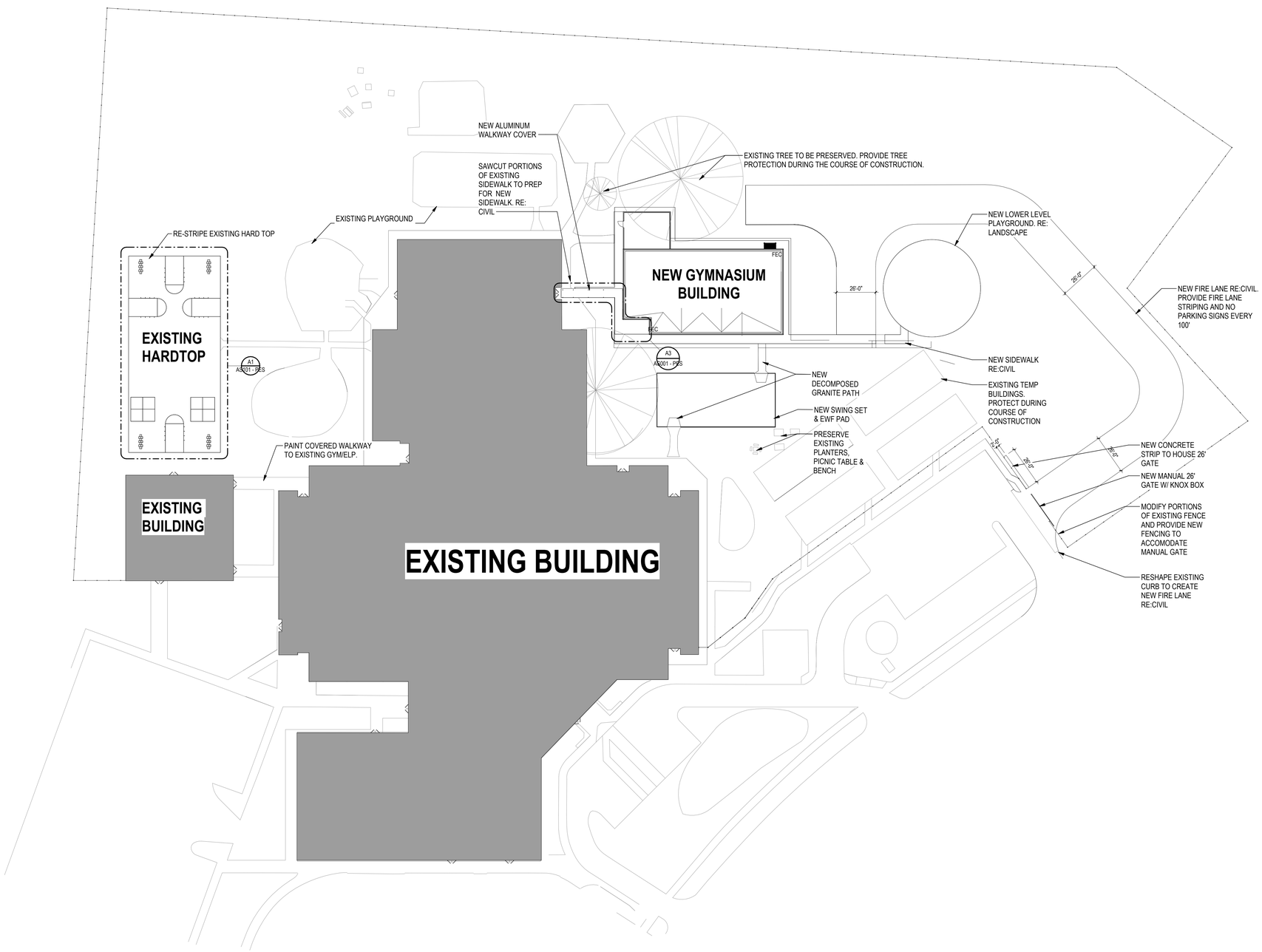

A1 AS100 ARCHITECTURAL SITE PLAN

1" = 30'-0"

PES

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

ARCHITECTURAL SITE PLAN

Project No.	Scale
214001246	1" = 30'-0"

Revision | Drawing No.

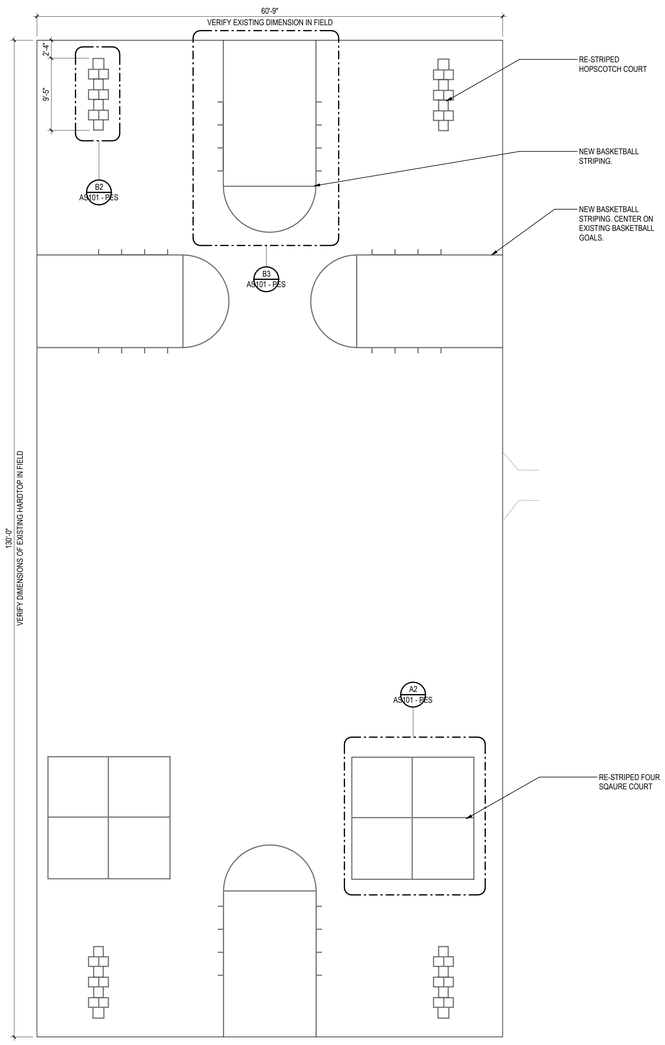
AS100 - PES

ORIGINAL SHEET - ARCH E1

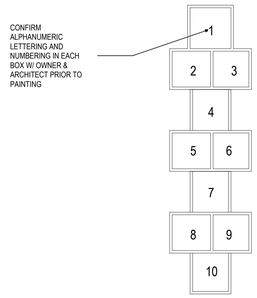
<File location in Project Information>
12/5/2025 4:39:00 AM

GENERAL ARCHITECTURAL SITE NOTES

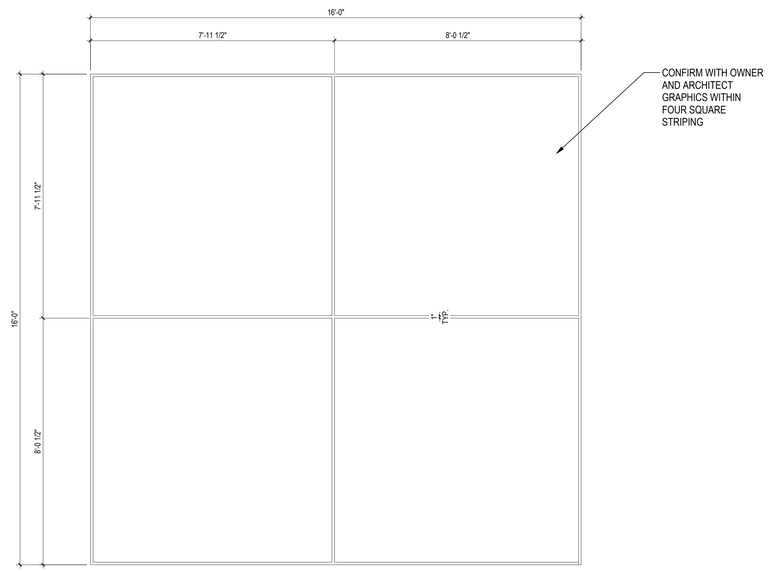
1. REMOVE EXISTING HARDTOP GRAPHICS. SANDBLAST AND REPAINT HARDTOP GRAPHICS. CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING.
2. PROVIDE HIGH-BUILD WATERBORNE TRAFFIC PAINT FOR HARDTOP STRIPING AND GRAPHICS
3. HYDRO-MULCH ALL AREAS DISTURBED DURING COURSE OF CONSTRUCTION



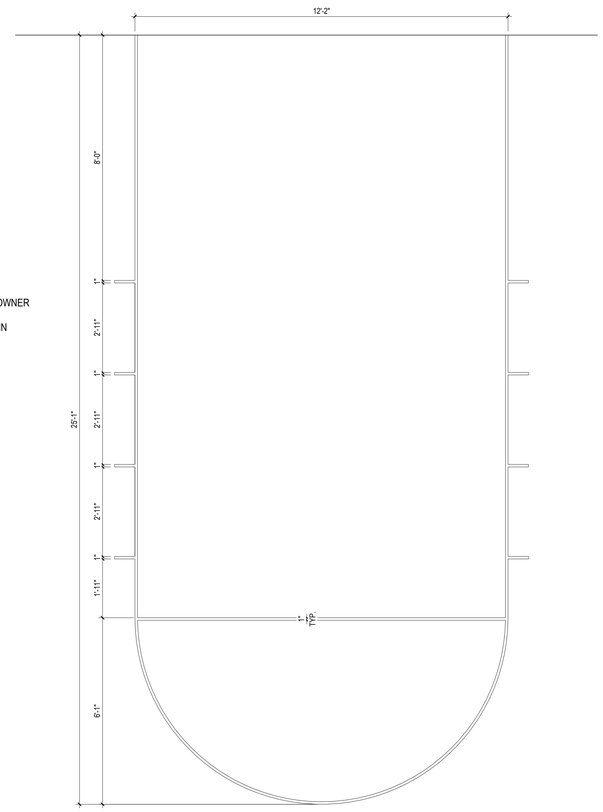
A1 ENLARGED HARD TOP PLAN
A1 / AS101 — PES
1/8" = 1'-0"



B2 HOPSCOTCH SQUARES
B2 / AS101 — PES
1/2" = 1'-0"



A2 FOUR SQUARE DETAIL
A2 / AS101 — PES
1/2" = 1'-0"



B3 OUTDOOR BASKETBALL STRIPING
B3 / AS101 — PES
1/2" = 1'-0"

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4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ENLARGED HARDTOP SITE PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AS101 - PES

*Pick location in Project Information
1/20/2025 4:09:08 AM
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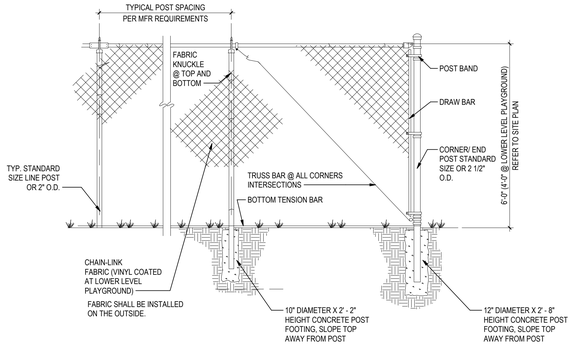
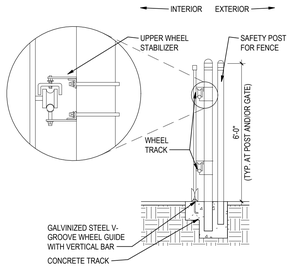


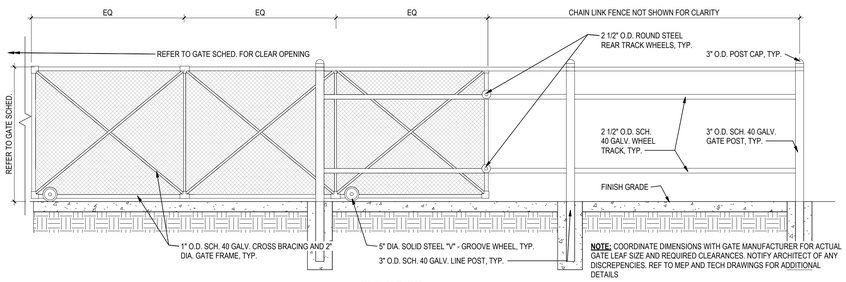
D1 AS102 **CHAINLINK FENCE**

1/2" = 1'-0"

PES



SECTION



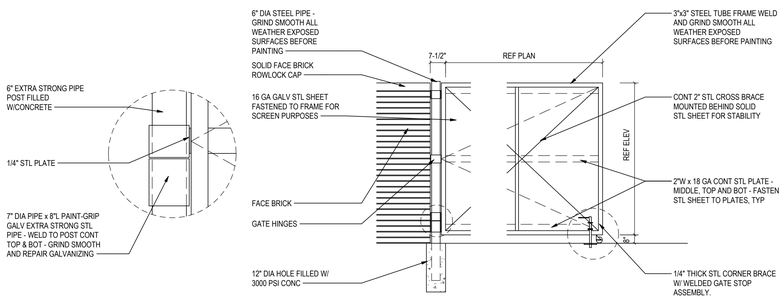
ELEVATION

NOTE: COORDINATE DIMENSIONS WITH GATE MANUFACTURER FOR ACTUAL GATE LEAF SIZE AND REQUIRED CLEARANCES. NOTIFY ARCHITECT OF ANY DISCREPENCIES. REF TO MEP AND TECH DRAWINGS FOR ADDITIONAL DETAILS

B1 AS102 **SLIDING GATE DETAIL**

3/8" = 1'-0"

PES

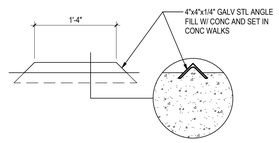


TYPICAL ELEVATION OF GATE/SCREEN WALL

A1 AS102 **GATE @ MECH YARD DETAIL**

3/4" = 1'-0"

PES

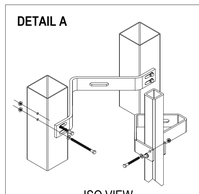


A2 AS102 **BOOTSCRAPER DETAIL**

1" = 1'-0"

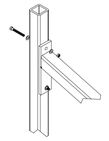
PES

DETAIL A



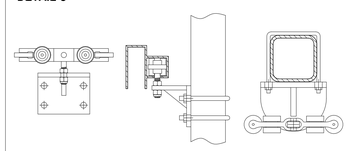
ISO VIEW

DETAIL B



ISO VIEW

DETAIL C

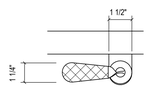


FRONT VIEW SIDE VIEW TOP VIEW

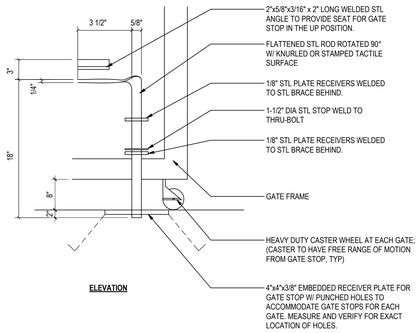
B3 AS102 **SLIDING GATE DETAIL (CONT.)**

3/8" = 1'-0"

PES



PLAN VIEW



ELEVATION

GATE STOP DETAIL

A3 AS102 **GATE STOP DETAIL**

3/4" = 1'-0"

PES

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Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker
	Dwn.	Dsgn.	Chkd.
			12/07/24 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

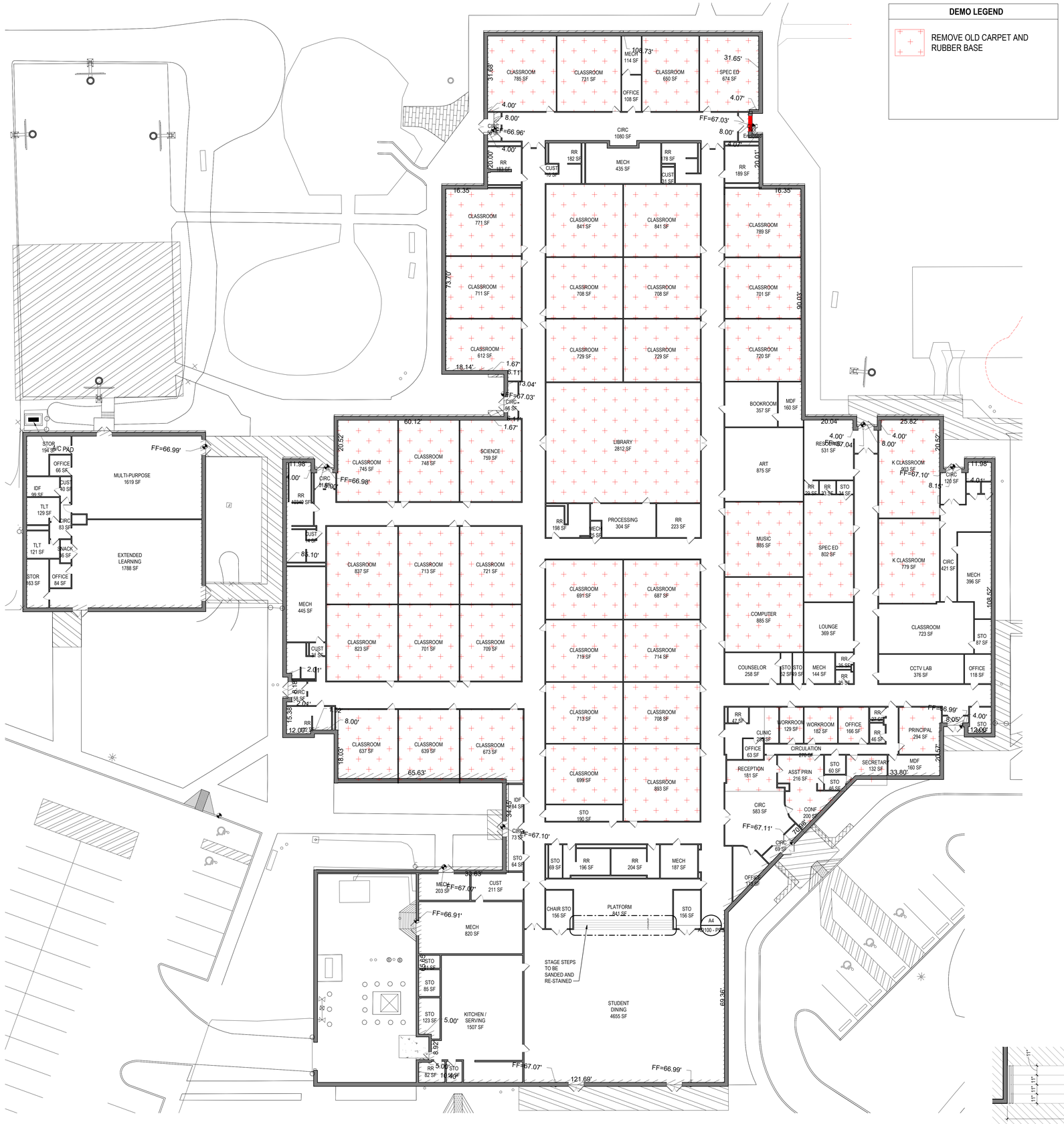
ARCHITECTURAL SITE DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AS102 - PES

*Plot location in Project Information
10/2/2025 4:09:16 AM

ORIGINAL SHEET - ARCH E1



GENERAL DEMOLITION REQUIREMENTS

GENERAL:

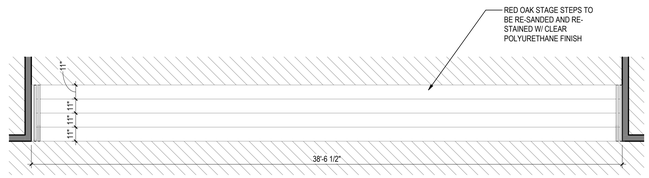
1. VISIT THE SITE TO UNDERSTAND THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. REPORT DISCREPANCIES OR AMBIGUOUS ITEMS TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK.
3. COORDINATE DEMOLITION WORK WITH PLAN SHEETS ASD100. AD100, AD601. REFER TO SHEET AS01 FOR DOOR AND WINDOW FRAME TYPES AND DETAILS AT NEW OPENINGS IN EXISTING WALLS.
4. REFER TO CIVIL, STRUCTURAL, AND MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION REQUIREMENTS. PATCH WALLS WHERE FIXTURES AND EQUIPMENT ARE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACE.
5. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THE DEMOLITION AND NOT REUSED IN THE NEW CONSTRUCTION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
6. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF ADDITIONAL EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING UNDAMAGED CONDITION.
7. DEMOLITION WORK IS TO BE DONE IN PHASES.

STRUCTURAL INTEGRITY:

1. PROVIDE SHORING, BRACING, AND SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE PROJECT BEFORE CUTTING OR ALTERING ANY OPENING IN AN EXISTING LOAD BEARING OR NON-LOAD BEARING WALL, FOOTING, OR ROOF DECK.

CUTTING AND PATCHING:

1. PROVIDE MATERIALS FOR CUTTING AND PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN THAT BEING CUT OR PATCHED.
2. REMOVE EXISTING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. PATCH FLOORS, WALLS AND CEILINGS IN A RECTANGULAR PATTERN TO MATCH EXISTING CONDITIONS AND MAKE THEM READY TO RECEIVE ANY NEW FINISHES INDICATED.
3. CAP PLUMBING LINES THAT ARE TO BE REMOVED BELOW FLOOR OR BEHIND WALL. OR REMOVE THEM COMPLETELY. PATCH FLOORS AND WALLS TO MATCH EXISTING CONDITIONS. REFER PLUMBING DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
4. AT AREAS WHERE EXISTING FLOOR MOUNTED TOILET ROOM FIXTURES ARE TO BE REMOVED, ALSO REMOVE APPROXIMATELY 30 SF OF TILE FROM THE FLOOR AND 40 SF OF TILE FROM THE WALL. PREPARE THIS AREA TO RECEIVE NEW TILE. THE LAYOUT AND EXACT AMOUNT OF TILE TO BE REMOVED SHALL BE AT THE DIRECTION OF THE ARCHITECT.
5. AT AREAS WHERE EXISTING WALL MOUNTED TOILET ROOM FIXTURES ARE TO BE REMOVED, ALSO REMOVE APPROXIMATELY 40 SF OF TILE FROM THE WALL. PREPARE THIS AREA TO RECEIVE NEW TILE. THE LAYOUT AND EXACT AMOUNT OF TILE TO BE REMOVED SHALL BE AT THE DIRECTION OF THE ARCHITECT.
6. WHERE EXISTING FLOORING, CEILINGS OR WALL FINISHES ARE TO BE REMOVED AND REPLACED WITH NEW FINISHES, SURFACES TO REMAIN SHALL BE STRIPPED CLEAN OF ALL EXISTING FINISHES AND MADE READY TO RECEIVE NEW FINISHES.
7. INSPECT FLOORS TO RECEIVE NEW FINISHES PRIOR TO BID. COMPLETELY REMOVE FLOOR FINISHES TO BE REPLACED UON. CLEAN AND PROPERLY PREPARE THE EXISTING SUBSTRATE PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. STRIP, PATCH, AND FILL TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF BURRS AND ADHESIVE AND SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL UNDER CUT OF DOORS TO ACCOMMODATE NEW FLOOR FINISH WHERE NEW FINISH IS THICKER THAN ORIGINAL FINISH.
8. WHERE NEW CONCRETE TOPPING IS TO BE PLACED OVER EXISTING CONCRETE SLAB, ABRADE EXISTING CONCRETE FINISH FOR BETTER BOND.
9. TOOTH IN MASONRY WHERE EXISTING MASONRY ABUTS NEW MASONRY IN THE SAME WALL PLANE. NEW MASONRY SHALL MATCH EXISTING COURSING AND BOND PATTERN.
10. PROVIDE A FINISHED EDGE BY TOOTHING IN NEW MASONRY TO MATCH EXISTING WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED (UON).
11. REMOVE EXISTING WINDOWS AND SILLS COMPLETELY PRIOR TO SEALING OPENINGS (UON).
12. REMOVE FRAME AND PATCH WALL WITH SAME ADJACENT MATERIAL AND FINISH AS EXISTING WHERE EXISTING DOOR OPENINGS ARE TO BE SEALED. ALIGN NEW AND EXISTING WALLS (UON).
13. REMOVE EXPANSION JOINT COVERS (FLOOR, WALL, AND CEILING) THAT ARE DAMAGED DURING DEMOLITION AND REPLACE WITH NEW COVERS OF THE SAME TYPE AND FINISH (OR WITH NEW AS DETAILED, WHERE INDICATED).
14. COORDINATE WITH ROOF PLAN SHEET A133 AND DETAILS FOR SELECTED DEMOLITION OF ROOF AREAS.
15. EXISTING DOORS, FRAMES, AND HARDWARE THAT ARE REMOVED MAY BE REUSED, WHERE INDICATED ON PLANS, IF IN GOOD CONDITION IN THE OPINION OF THE ARCHITECT AND OWNER.
16. WHERE INDICATED, REMOVE TACKBOARDS, CHALKBOARDS, MISCELLANEOUS DISPLAY RAILS, AND TOILET ROOM ACCESSORIES. SALVAGE REMOVED ITEMS FOR OWNER OR REINSTALL AS INDICATED IN DRAWINGS AND SPECIFICATIONS. CLEAN AND PREPARE WALL AS REQUIRED FOR NEW EQUIPMENT OR TO RECEIVE A NEW FINISH.
17. REMOVE WOOD FRAME AND WOOD AT TRANSOM OPENINGS ABOVE DOORS. PATCH WALL TO MATCH EXISTING FIRE RATING AND ACOUSTICAL RATING



A1 AD100 PES — **ARCHITECTURAL DEMOLITION**
1/16" = 1'-0"

A4 AD100 PES — **ENLARGED PLAN - STAGE STAIRS**
1/4" = 1'-0"

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Revision	By	Appd	YYYY.MM.DD
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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 12/07/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE PUNCH 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

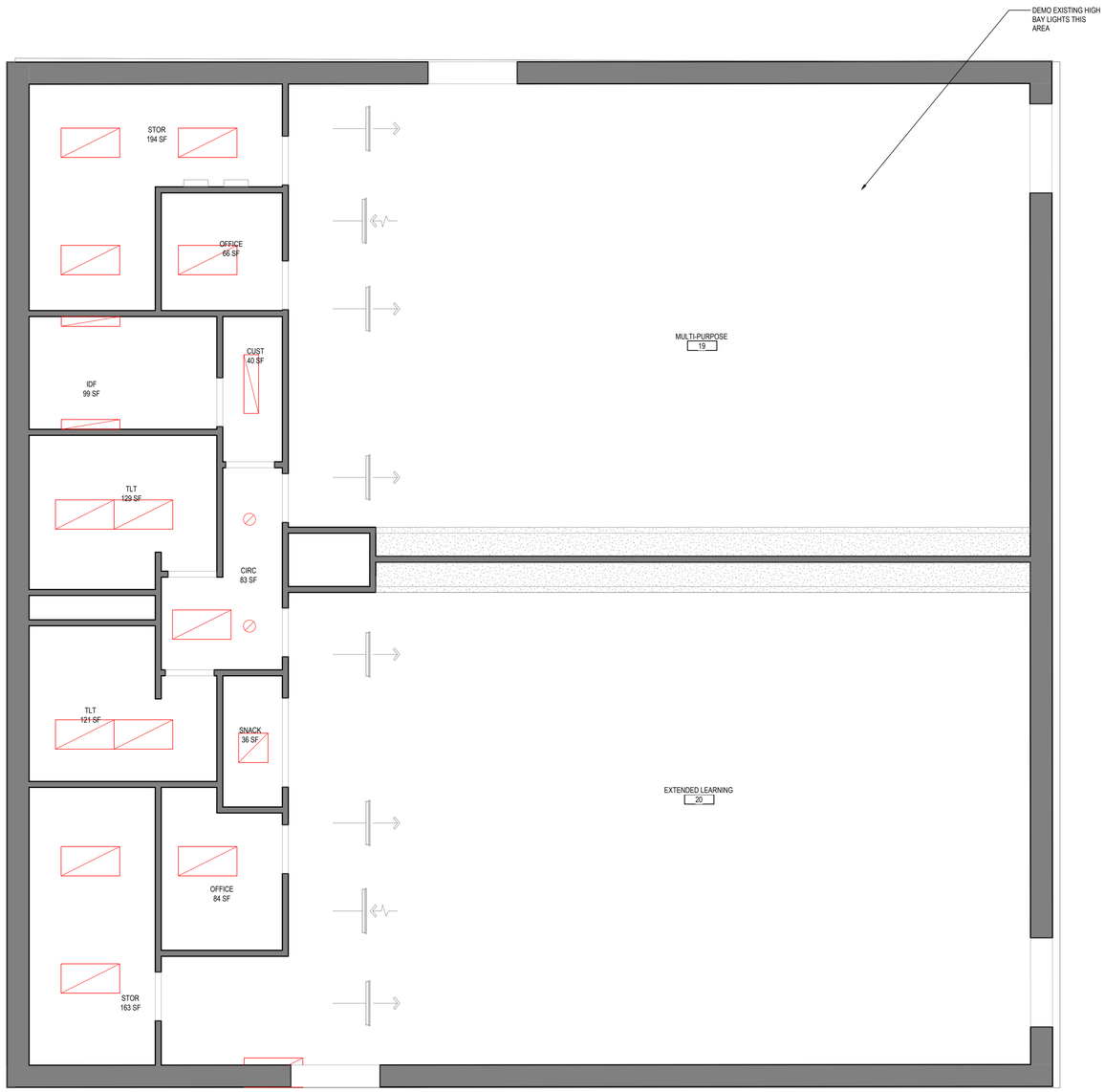
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ARCHITECTURAL DEMOLITION PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AD100 - PES

ORIGINAL SHEET - ARCH E1
Pick location in Project Information
1/25/2024 4:08:23 AM



A1
AD601

DEMOLITION CEILING PLAN - ELP

1/4" = 1'-0"

PES

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Issued	By	Appd	YYYY.MM.DD
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File Name: N/A	Author	Designer	Checker	06/01/25
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT
DANIELLE DUNN
82980
STATE OF TEXAS

Client/Project Logo

2025 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
DEMOLITION REFLECTED CEILING PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

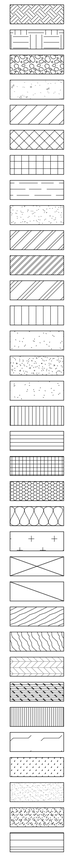
AD601 - PES

ORIGINAL SHEET - ARCH D1

ABBREVIATIONS:

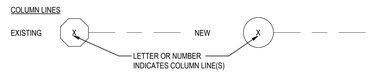
#	NUMBER, POUNDS
%	PERCENT
&	AND
'	FOOT, FEET
"	INCH
@	AT
Ø	DIAMETER
℄	CENTER LINE
A	
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL TILE
ADA, ADAAG	AMERICANS WITH DISABILITIES ACT GUIDELINES
ADD	ADDENDUM
ADJ	ADJUSTABLE, ADJACENT
ADMIN	ADMINISTRATION, ADMINISTRATIVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERES
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY, APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILARY
AVG	AVERAGE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WALL PANEL
B	
BD	BOARD
BIT	BITUMINOUS
BK	BRICK
BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BO	BOTTOM OF
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF
C	
CAB	CABINET
CB	CHALKBOARD, CARPET BASE
CCD	COUNTER COILING DOOR
CF	CURTAIN FABRIC
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR, COLOR, COOLER
CLRM	CLASSROOM
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CS	CAST STONE, COUNTER SHUTTER
CT	CERAMIC TILE
CUST	CUSTODIAL
CW	CURTAIN WALL
D	
D	DEPTH, DEEP
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION, DIVIDE
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EP	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	EC CETERA
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED CEILING
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE & EQUIPMENT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FLDG PTN	FOLDING PARTITION
FLR	FLOOR
FO	FACE OF, FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBER REINFORCED PLASTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE-RETARDANT TREATED
FRTW	FIRE-RETARDANT TREATED WOOD
FT	FEET
FVC	FIRE VALVE CABINET
FWP	FABRIC WRAPPED PANELS
G	
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GL	GLASS
GLZ	GLAZING, GLAZED
GSU	GLAZED STRUCTURAL UNIT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
HB	HOSE BIBB
HC	HOLLOW CORE
HWC	HIGH IMPACT WALL COVERING
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HR	HOUR, HOURS
HRDW	HARDWARE
HT	HEIGHT
HVAC	HEATING, VENTING & COOLING
HWD	HARD WOOD
I	
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIMENSION, INSIDE DIAMETER
IN	INCH, INCHES
INFO	INFORMATION
INSUL	INSULATION, INSULATING
INSUL GL	INSULATING GLASS
INT	INTERIOR
IPC	INTERNATIONAL PLUMBING CODE
IRWC	IMPACT-RESISTANT WALL COVERING
J	
JAN	JANITOR
JT	JOINT
L	
L	ANGLE, ANGLE SHAPE
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT
LH	LEFT HAND
LSD	LIQUID SOAP DISPENSER
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBH	MOP/BROOM HOLDER
MCJ	MASONRY CONTROL JOINT (CMU)
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEJ	MASONRY EXPANSION JOINT (BRICK MASONRY)
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFR REC	REC MANUFACTURER'S RECOMMENDATIONS
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING, MOTOR OPERATED
MOD	MODIFY
MOD BIT	MODIFIED BITUMEN
MS	MASONITE
MSB	MOP SERVICE BASIN
MTD	MOUNTED, MOUNTING
MTL	METAL
MU	MASONRY UNIT
MWK	MILLWORK
N	
N	NORTH
NA	NON APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER(S)
NOM	NOMINAL
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NTS	NOT TO SCALE
O	
OC	ON CENTER
OCC	OCCUPANCY
OCG	OVERHEAD COILING GRILL
OCS	OVERHEAD COILING FIRE SHUTTER
OD	OUTSIDE DIAMETER/DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
P	
P	PAINT
PAR	PARALLEL, PARAPET
PC	POLISHED CONCRETE
PCP	PORTLAND CEMENT PLASTER
PERP	PERPENDICULAR
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT, PAINTED
PR	PAIR
PRE-K	PREKINDERGARTEN
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PAINT, PAINTED
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
R	
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE, RUBBER BASE
RBF	RUBBER FLOORING / RUBBER STAIRS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE:	REFER
REBAR	REINFORCING BAR
REF	REFER, REFERENCE, REFRIGERATOR
REINF	REINFORCED, REINFORCEMENT
REQD	REQUIRED
REV	REVISION(S)
RF	RESILIENT FLOORING
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
RP	RESIN PANELS
RS	ROLLER SHADES
RSF	RESINOUS FLOORING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SC	SOLID CORE, STAGE CURTAIN, SEALED CONCRETE
SCHED	SCHEDULE
SCJ	SAWN CONTROL JOINT
SCR	SHOWER CURTAIN ROD
SCWD	SOLID CORE WOOD DOOR
SD	SMOKE DETECTOR
SDT	STATIC DISSIPATIVE TILE
SECT	SECTION
SF	SQUARE FEET, STOREFRONT
SFC	STRECTCHED FABRIC CEILING
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOC
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SOD	SECTIONAL OVERHEAD DOOR
SOSG	SELF OPENING SECURITY GRILL
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SYM	SYMETRICAL
T	
T	CERAMIC / PORCELAIN TILE / GLASS TILE
TAS	TEXAS ACCESSIBILITY STANDARDS
TB	TACKBOARD, CERAMIC / PORCELAIN TILE BASE
TEL	TELEPHONE
TEMP	TEMPERATURE
THRU	THROUGH
TLT	TOILET
TO	TOP OF
TOC	TOP OF CURB, TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TW	TACKWALL
TYP	TYPICAL
TZ	TERRAZO
U	
UL	UNDERWRITER'S LABORATORY
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
UR	URINAL
UR SCRN	URINAL SCREEN
UTIL	UTILITY
V	
V	VOLTS
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING
W	
W	WIDTH, WEST
W/	WITH
W/O	WITHOUT
WB	WINDOW BLINDS
WC	WATER CLOSET, WALL COVERING
WD	WOOD / WOOD VENEER
WDF	WOOD FLOORING
WDW	WINDOW
WF	WINDOW FILM
WH	WATER HEATER
WL	WIND LOAD
WP	WORKING POINT, WALL PAD
WS	WOOD STAIN
WT	WEIGHT
WWF	WELDED-WIRE FABRIC

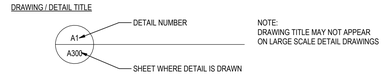
MATERIAL LEGEND:

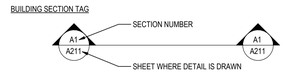


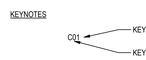
RENOVATION GRAPHICS:

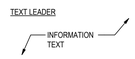
REFERENCE TAGS AND SYMBOLS:

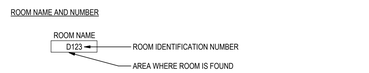


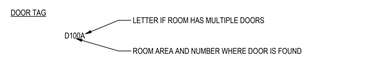


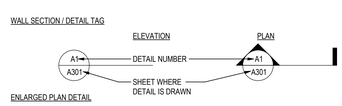


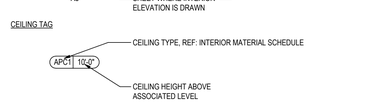












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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/20/15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

ABBV., MATERIAL LEGEND AND SYMBOLS

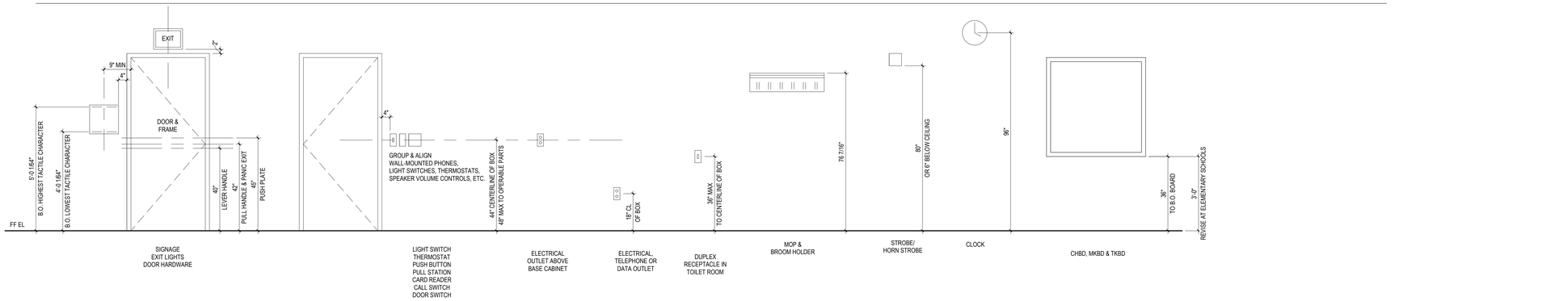
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

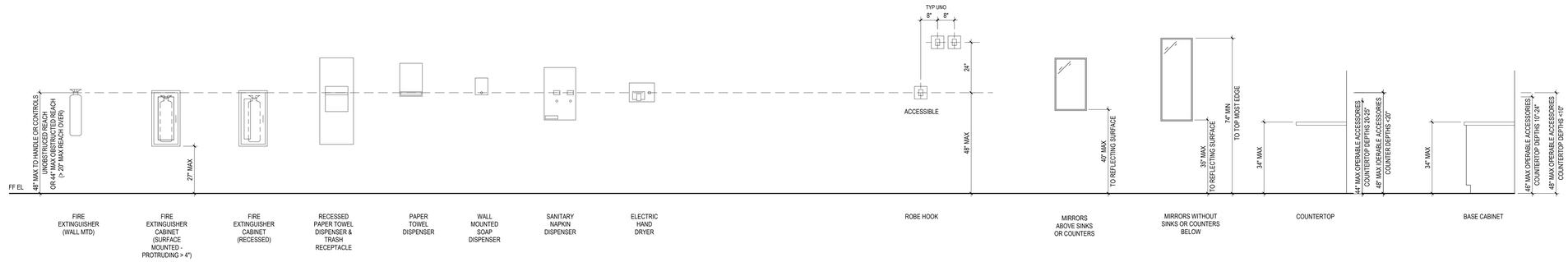
A001 - PES

<Pick location in Project Information>
9/25/2025 4:04:23 AM

ORIGINAL SHEET - ARCH E1

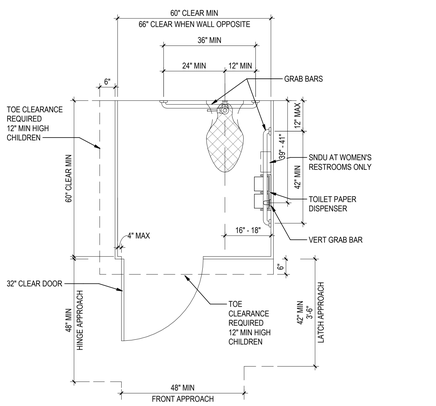
TYPICAL MOUNTING HEIGHTS



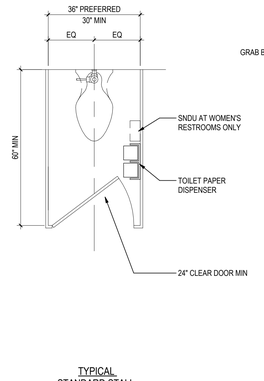


NOTE: COORDINATE ALL ELECTRICAL ITEMS W/ CASEWORK, DISPLAY BOARDS, MIRRORS & ACOUSTICAL MATERIAL AS INDICATED ON THE PLANS, CASEWORK ELEVATIONS & INTERIOR ELEVATIONS (TYP).

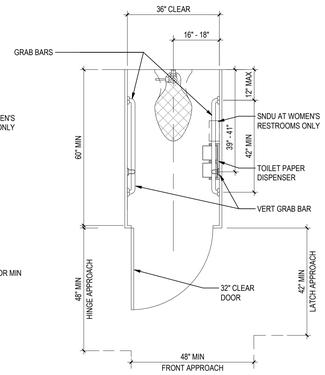
TYPICAL TOILET ROOM LAYOUTS



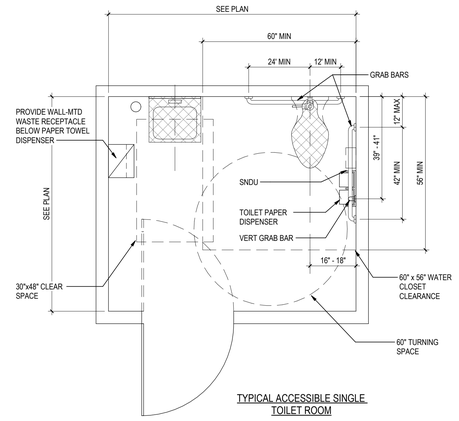
TYPICAL NOTES:
1. REFER SIDE AND FRONT ELEVATIONS.
2. REFER TO PLUMBING DRAWINGS FOR LOCATION OF FLUSH VALVE PIPING.
3. FLUSH VALVE CONTROLS ON WIDE SIDE OF TOILET AREA.
4. PARTITION BOTTOM SHALL BE 9" MIN ADULT, 12" MIN CHILDREN AFF.



TYPICAL STANDARD STALL

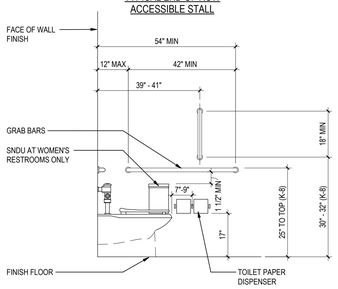


TYPICAL AMBULATORY STALL

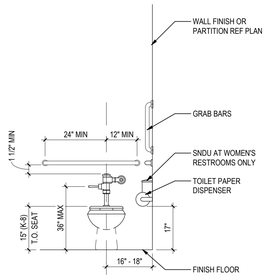


TYPICAL ACCESSIBLE SINGLE TOILET ROOM

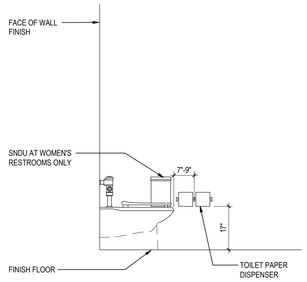
TYPICAL NOTES:
1. GRAB BARS ARE PERMITTED TO BE MOUNTED 33"-36" TO TOP OF BAR WHEN REQUIRED TO ACCOMODATE ACCESSORY CONFLICTS.
2. TOILET PAPER DISPENSER PERMITTED TO BE MOUNTED 15"-48" TO POINT OF OUTLET WHEN REQUIRED TO MAINTAIN 1 1/2" GRAB BAR CLEARANCES.



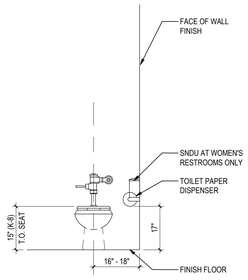
TYPICAL SIDE WALL ELEVATION AT ACCESSIBLE TOILET



TYPICAL ELEVATION AT ACCESSIBLE TOILET

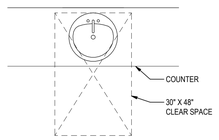


TYPICAL SIDE WALL ELEVATION AT STANDARD TOILET

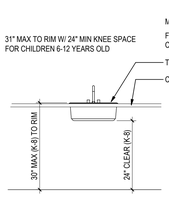


TYPICAL ELEVATION AT STANDARD TOILET

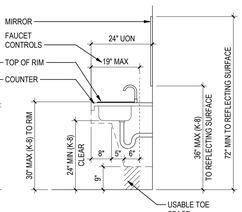
TYPICAL ACCESSIBLE LAVATORY



TYPICAL PLAN (COUNTER-MOUNTED)

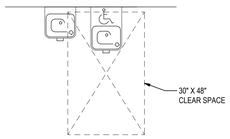


TYPICAL FRONT ELEVATION

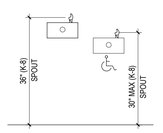


TYP SIDE ELEVATION

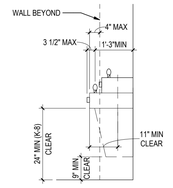
TYPICAL DRINKING FOUNTAINS



TYPICAL PLAN

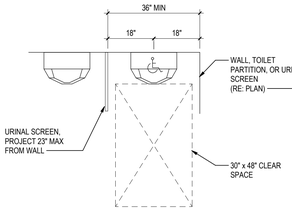


TYPICAL FRONT ELEVATION

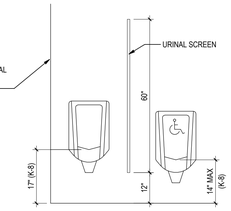


TYP SIDE ELEVATION

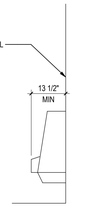
TYPICAL URINAL LAYOUT



TYPICAL PLAN



TYPICAL FRONT ELEVATION



TYP SIDE ELEVATION

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Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	09/15/17 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE PUNCH 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

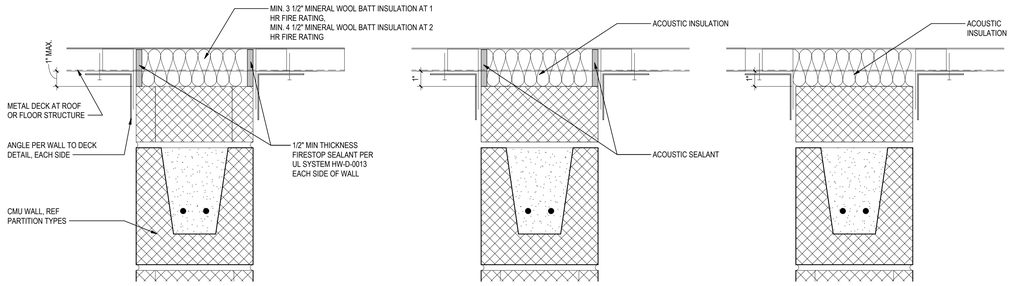
Title
TYPICAL MOUNTING HEIGHTS AND TOILET LAYOUT

Project No. 214001246
Scale 1/2" = 1'-0"
Revision
Drawing No.

A002 - PES

4PG4 location in Project Information
7/25/2025 4:04:27 AM

ORIGINAL SHEET - ARCH E1



A FIRE RATED WALL (PARALLEL OR PERPENDICULAR TO DECK) **UL NO. HW-D-0013**

B ACOUSTIC WALL (PARALLEL OR PERPENDICULAR TO DECK)

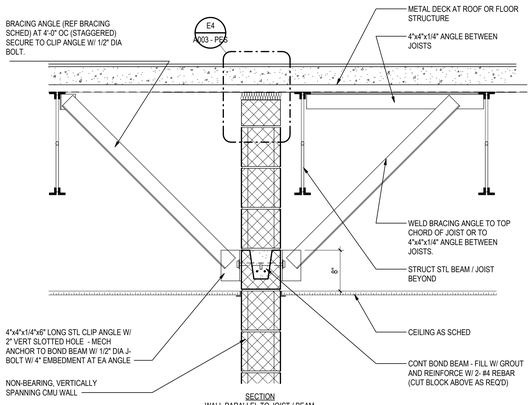
C NON-RATED WALL (PARALLEL OR PERPENDICULAR TO DECK)

ITEMS LISTED AT B AND C ARE REVISIONS TO THOSE NOTED AT CONDITION A

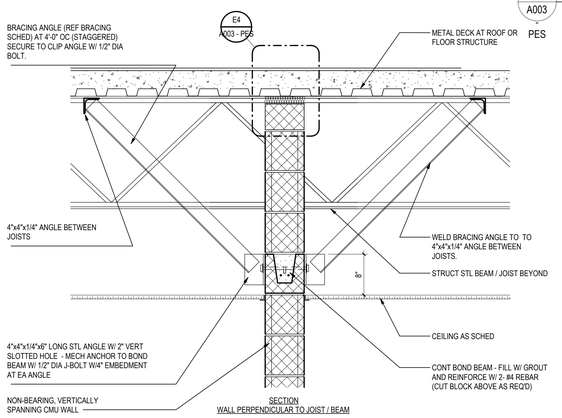
E4 / A003 — A022_Walls_Head-CMU

3" = 1'-0"

PES



SECTION
WALL PARALLEL TO JOIST / BEAM



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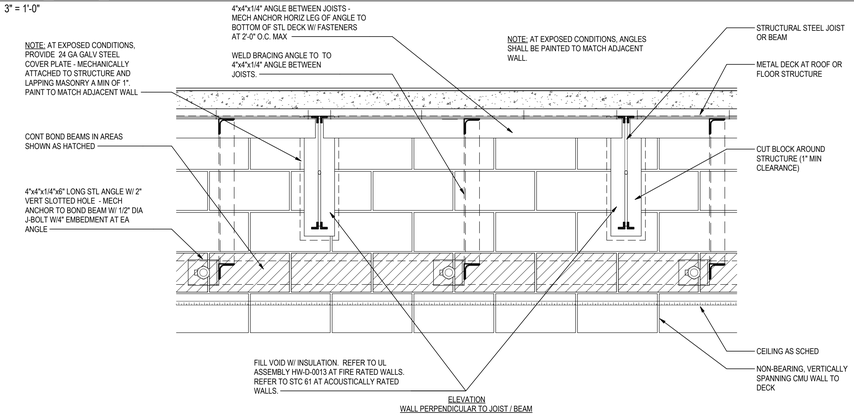
WALL PERPENDICULAR TO JOIST / BEAM

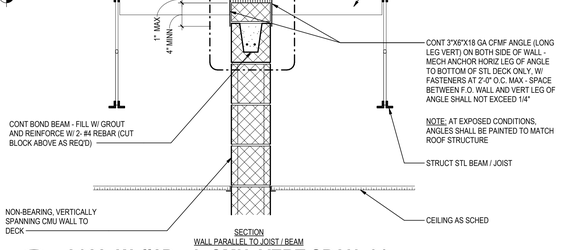


ELEVATION
WALL PERPENDICULAR TO JOIST / BEAM

C1 / A003 — A022_Wall2Deck-CMU_VERT SPAN_02

1" = 1'-0"

PES



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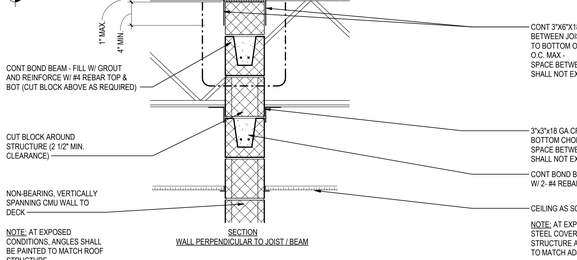
B1 / A003 — A022_Wall2Deck-CMU_VERT SPAN_01

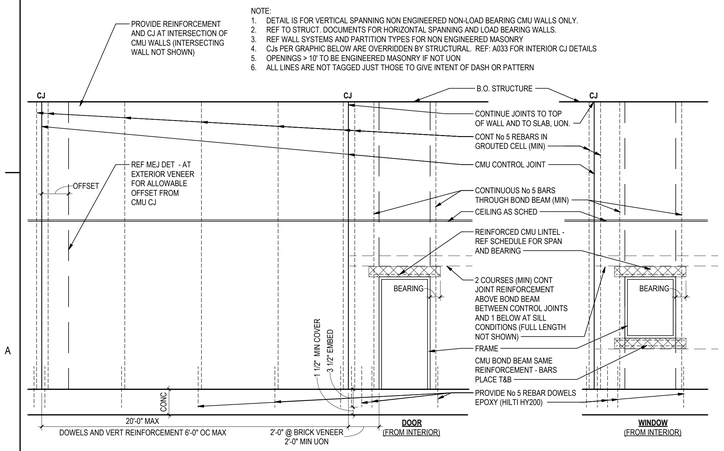
1" = 1'-0"

PES



SECTION
WALL PERPENDICULAR TO JOIST / BEAM

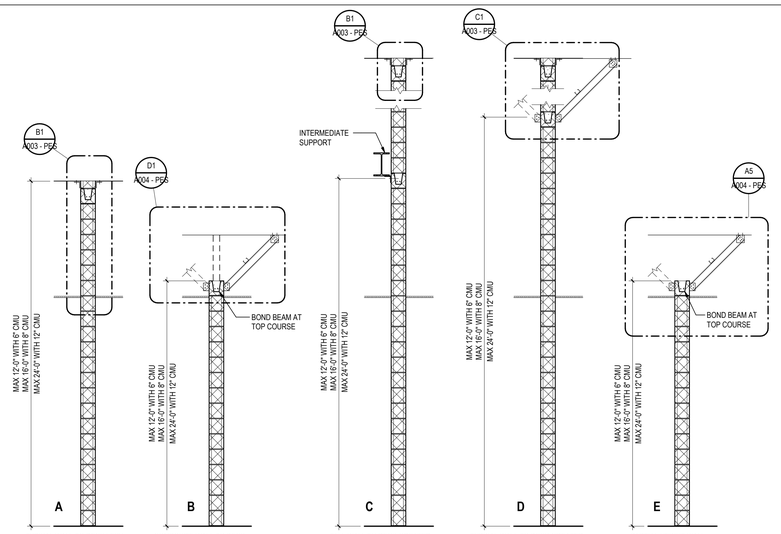
ELEVATON
WALL PERPENDICULAR TO JOIST / BEAM



A1 / A003 — A022_CMU WALL OPENINGS / CJs / DOWEL

1" = 1'-0"

PES



TYPICAL WALL TO DECK LESS THAN 16' HIGH

COMPOSITE WALL TO DECK ANY HEIGHT

TALL WALL TO DECK GREATER THAN 16' HIGH W/INTERMEDIATE SUPPORT

TYPICAL WALL TO DECK GREATER THAN 16' HIGH W/O INTERMEDIATE SUPPORT

PARTIAL HEIGHT WALL

A4 / A003 — A022_INTERIOR CMU WALL SPANS

3/8" = 1'-0"

PES

MISCELLANEOUS STEEL BRACING SCHEDULE

BRACE SIZE	MAX LENGTH	BRACE SIZE	MAX LENGTH
1" x 1" x 3/16"	3'-3"	3 1/2" x 3 1/2" x 1/4"	9'-8"
1 1/2" x 1 1/2" x 3/16"	4'-10"	4" x 4" x 1/4"	11'-0"
2" x 2" x 3/16"	5'-6"	WT 4 x 9 OR 4 x 9	15'-10"
2 1/2" x 2 1/2" x 3/16"	6'-10"	WT 5 x 11	18'-6"
3" x 3" x 3/16"	8'-3"	WT 6 x 13	20'-0"

NOTES:

1. MEMBER SIZES INDICATED WITHIN THIS TABLE SHALL ONLY SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THIS SET OF PLANS AND SHALL NOT SUPERSEDE MEMBER SIZES EXPLICITLY NOTED ON SECTIONS OR DETAILS OF STRUCTURAL DRAWINGS.
2. PROVIDE 3/16" FILLET WELD AT ALL TOP CONNECTIONS (WELD ENTIRE PERIMETER). LOWER CONNECTIONS AS PER DETAIL.

CONSTRUCTION NOTES - INTERIOR CMU:

1. PROVIDE INTERMEDIATE BRACING FOR FULL-HEIGHT INTERIOR CMU WALLS EXCEEDING MAX VERTICAL SPAN HEIGHT AS INDICATED IN WALL SPAN DIAGRAMS.
2. PROVIDE DEFLECTION CONNECTION AT TOPS OF ALL CMU WALLS. FIRESTOP FIRE-RATED WALLS AND INSTALL ACOUSTICAL SEALANT AT ACOUSTICAL WALLS.
3. PROVIDE CJ'S AS REQUIRED SO THAT DISTANCE BETWEEN JOINTS DOES NOT EXCEED 25' - 0". SEE FLOOR PLANS AND ELEVATIONS FOR LOCATIONS. COORDINATE ADDITIONAL LOCATIONS WITH ARCHITECT.
4. ALL MASONRY WALLS ARE ASSUMED TO SPAN VERTICALLY.
5. REFER DOWEL SPACING ON CJ

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Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	04/02/09
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
WALL SPANS INTERIOR AND WALL TO DECK DETAILS - CMU

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	A003 - PES

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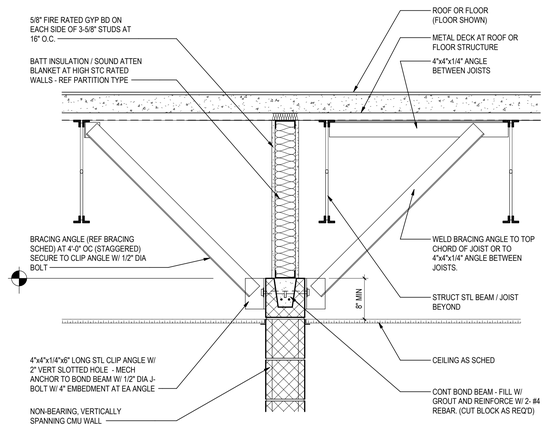

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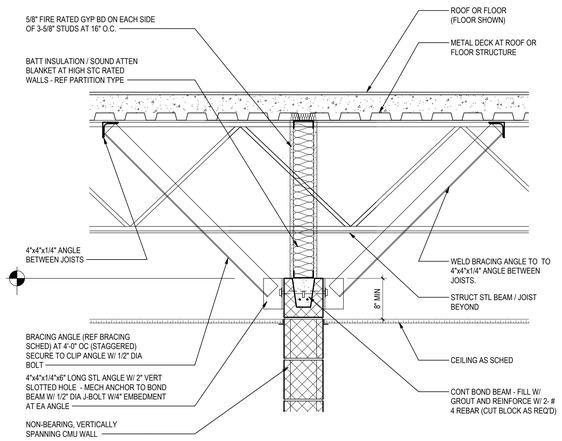
WALL PARALLEL TO JOIST / BEAM



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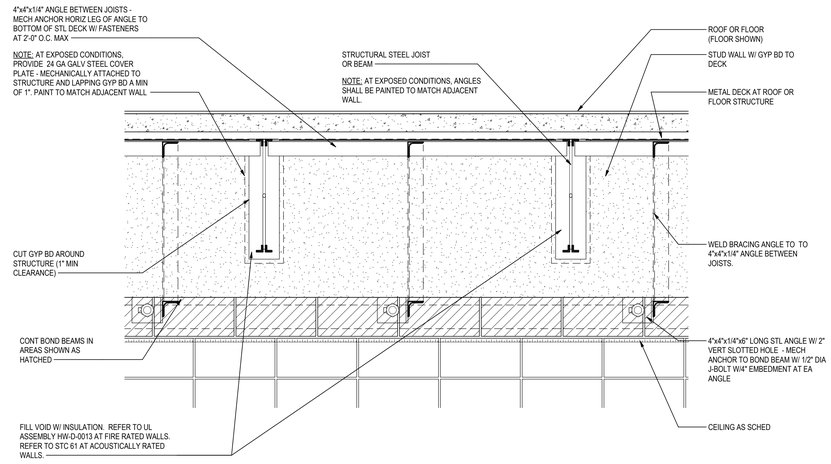
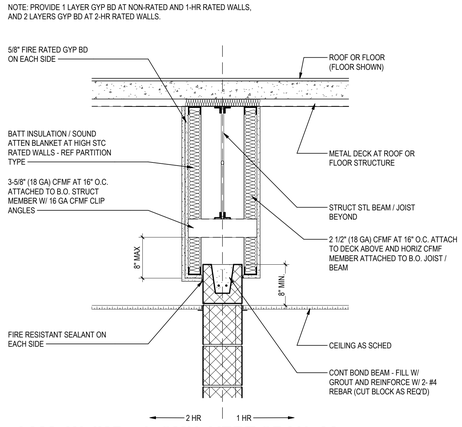


ELEVATION
WALL PERPENDICULAR TO JOIST / BEAM

D1 A004 A022_Wall2Deck-CMU_VERT SPAN_03

1" = 1'-0"

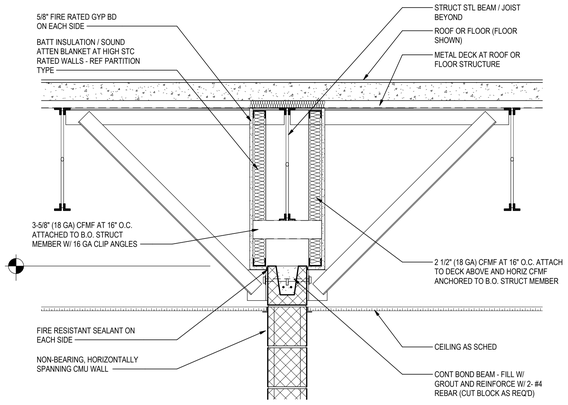
PES



B1 A004 A022_Wall2Deck-CMU_VERT SPAN_06

1" = 1'-0"

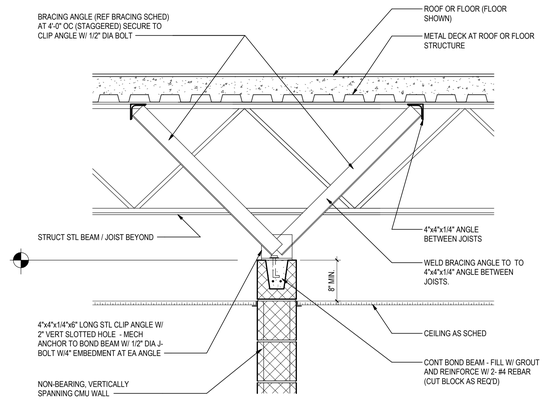
PES



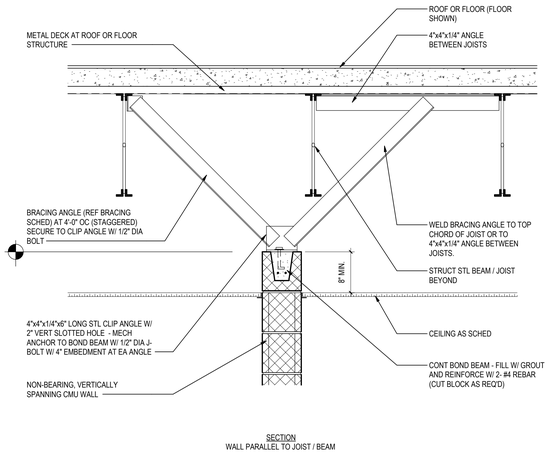
B2 A004 A022_Wall2Deck-CMU_VERT SPAN_04

1" = 1'-0"

PES



SECTION
WALL PERPENDICULAR TO JOIST / BEAM



SECTION
WALL PARALLEL TO JOIST / BEAM

A5 A004 A022_Wall2Deck-CMU_VERT SPAN_05

1" = 1'-0"

PES

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	05/30/08
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT · DANIELLE QUINN · 28298 · STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

WALL TO DECK DETAILS - CMU

Project No.	Scale
214001246	1" = 1'-0"

Revision | Drawing No.

A004 - PES

ORIGINAL SHEET - ARCH E1

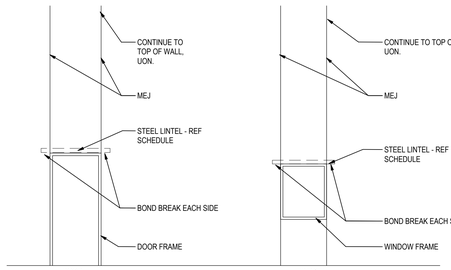
<Pw$ location in Project Information>
7/25/2025 8:04:39 AM

CONSTRUCTION NOTES - EXTERIOR MASONRY VENEER :

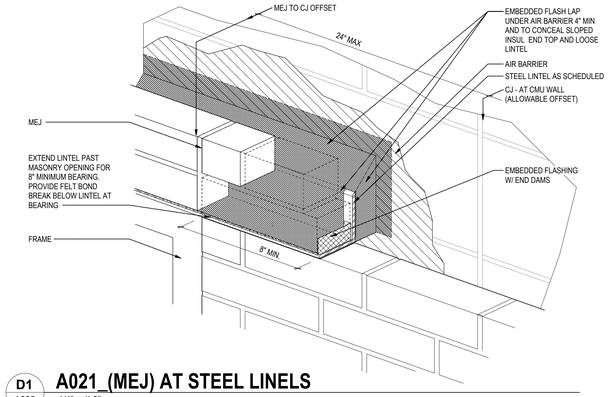
1. FURNISH GALV. LOOSE STEEL LINTELS ABOVE ALL OPENINGS PER LINTEL TABLE (REF STRUCTURAL DOCUMENTS).
2. INSTALL MEJs AT DOOR AND WINDOW OPENINGS PER "OPENINGS IN MASONRY VENEER" BELOW, UNLESS SHOWN OTHERWISE ON EXTERIOR ELEVATIONS.
3. REF EXTERIOR ELEVATIONS FOR ALL OTHER LOCATIONS OF EXTERIOR VENEER MEJs.

LOOSE STEEL ANGLE LINTEL FOR MASONRY VENEER

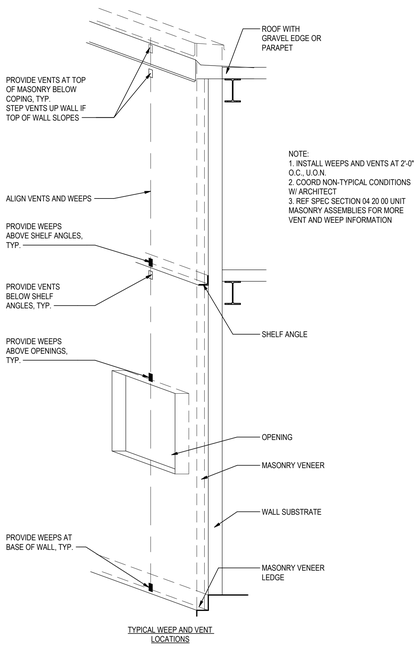
CLEAR SPAN	EXTERIOR ANGLES FOR 4" MASONRY	NOTES
4'-0" OR LESS	3.5 x 3.5 x 1/4	1. PROVIDE 8" MINIMUM BEARING FOR ALL STEEL ANGLE LINTELS. PROVIDE CONTINUOUS LINTEL ANGLES BETWEEN ADJACENT EXTERIOR OPENINGS SEPARATED BY 2'-0" OR LESS. 2. THIS TABLE APPLIES ONLY TO NON-LOAD BEARING WALLS. ANY LINTELS IN LOAD BEARING WALLS SHALL BE AS NOTED ON ARCHITECTURAL OR STRUCTURAL DETAIL SECTIONS. 3. IN THE CASE OF MASONRY VENEER WALLS WITH BLOCK BACK-UP, THE LINTEL FOR THE VENEER SHALL BE SELECTED FROM THIS TABLE. REFER TO CONCRETE BLOCK LINTEL SCHEDULE FOR THE BACK-UP LINTELS. 4. PROVIDE HORIZONTAL EXPANSION JOINTS AT EACH END OF MASONRY VENEER LINTELS REF DTL C1 ON THIS PAGE. 5. MEMBER SIZES INDICATED WITHIN THIS TABLE SHALL ONLY SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THIS SET AND SHALL NOT SUPERSEDE MEMBER SIZES EXPLICITLY NOTED ON SECTIONS, DETAILS OR STRUCTURAL DRAWINGS. 6. ALL LINTEL ANGLES SHALL BE INSTALLED W/ LONG LEG VERTICAL UON.
6'-0" OR LESS	4 x 4 x 1/4	
8'-0" OR LESS	7 x 4 x 3/8	
10'-0" OR LESS	7 x 4 x 3/8	



DOOR (VIEW FROM EXTERIOR) **WINDOW** (VIEW FROM EXTERIOR)



D1 A005 — **A021_(MEJ) AT STEEL LINELS**
1/4" = 1'-0"
PES

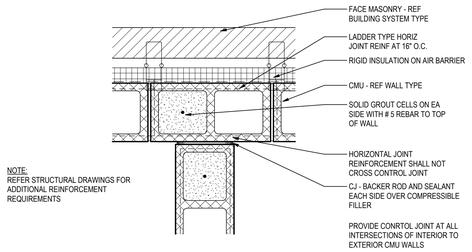


TYPICAL WEEP AND VENT LOCATIONS

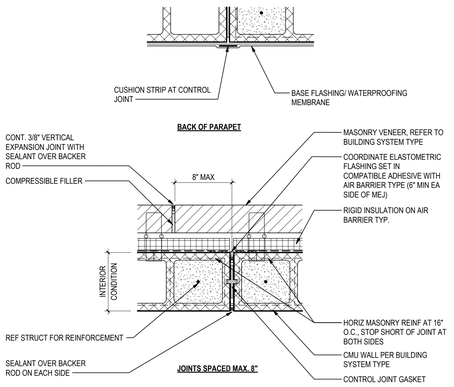
A1 A005 — **A021_WEEP AND VENT LOCATIONS**
3/8" = 1'-0"
PES

CONSTRUCTION NOTES - EXTERIOR CMU SUBSTRATE:

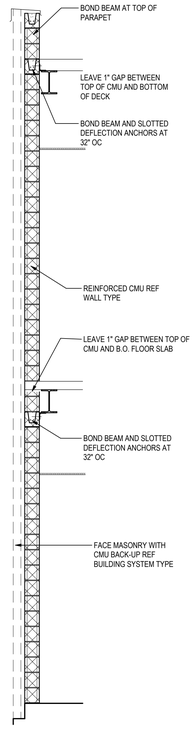
1. REINFORCE EXTERIOR LOAD BEARING AND NON-LOAD BEARING CMU WALLS PER STRUCTURAL DRAWINGS.
2. INSTALL CONTROL JOINTS AT OPENINGS:
   A. INTERIOR CMU WALLS PER "CMU CONTROL JOINT DETAIL" - REF TO A1/ A003 - PES
   B. EXTERIOR CMU WALLS PER MEJ - REF TO C3/ A005 - PES
3. INSTALL MASONRY EXPANSION JOINTS (MEJ) AT OPENINGS PER D1/A021.
4. EXTEND JOINT REINFORCING THROUGH WALL INTERSECTIONS PER "CMU WALL INTERSECTION" DETAIL.



D4 A005 — **A021_CMU (CJ) CONTROL JOINT - WALL INTERSECTION**
1 1/2" = 1'-0"
PES



C3 A005 — **A021_CMU (MEJ) MASONRY EXPANSION JOINT - FIELD OF WALL**
1 1/2" = 1'-0"
PES



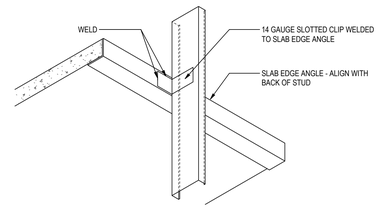
ROOF WITH PARAPET

C6 A005 — **A021_CMU DEFLECTION CONNECTIONS**
3/8" = 1'-0"
PES

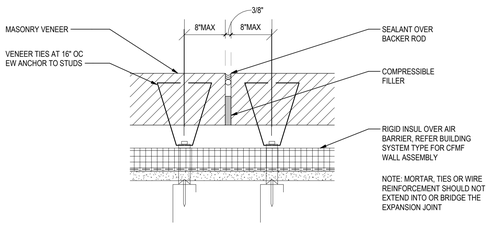
CONSTRUCTION NOTES - EXTERIOR CFMF SUBSTRATE:

UNLESS DESIGNED AND DETAILED OTHERWISE AND SHOWN ON SEALED ENGINEERING DRAWINGS, CONSTRUCT EXTERIOR CFMF WALLS AS FOLLOWS:

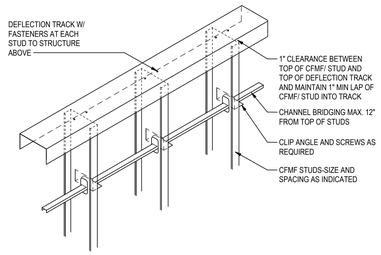
1. STUD WIDTH, THICKNESS, AND SPACING AS SHOWN ON WALL TYPES IS INTENDED AS THE MINIMUM REQUIREMENT.
2. BRACE CURTAIN WALL STUDS TO EDGES OF FLOOR AND ROOF FRAMING WITH DEFLECTION CLIPS AS SHOWN IN "CFMF DEFLECTION CONNECTIONS" BELOW.
3. FURNISH CFMF BOX BEAM HEADERS ABOVE ALL OPENINGS PER "CFMF BOX BEAM HEADER" DETAIL ON SHEET A023.
4. FURNISH MULTIPLE STUDS AT JAMBS OF ALL OPENINGS PER "DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE" ON SHEET A023.
5. INSTALL BRIDGING AS REQUIRED BY ENGINEERED DRAWINGS.
6. INSTALL CONTROL JOINTS AT DOOR AND WINDOW OPENINGS IN CFMF WALLS PER "OPENINGS IN CFMF WALLS" ON SHEET A023.



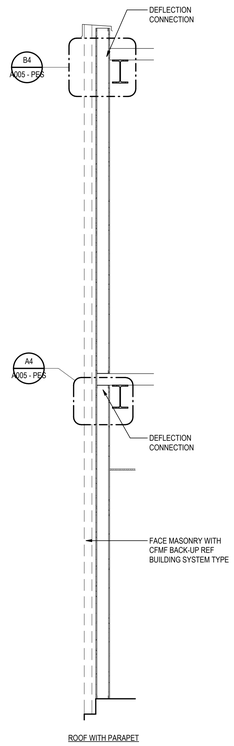
B4 A005 — **A021_EDGE OF SLAB DEFLECTION CLIP**
1" = 1'-0"
PES



A3 A005 — **A021_CFMF (MEJ) MASONRY EXPANSION JOINT**
3" = 1'-0"
PES



A4 A005 — **A021_CFMF DEFLECTION TRACK**
1" = 1'-0"
PES



ROOF WITH PARAPET

A6 A005 — **A021_CFMF DEFLECTION CONNECTIONS**
3/8" = 1'-0"
PES

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Notes

No.	Revision	By	Appd	Date
1	Revision 1			YYYY.MM.DD

Revision

No.	Issue	By	Appd	Date
100%	ISSUE FOR BID AND PERMIT			2025.09.24

Issued

File Name: N/A | Author: Dwn. | Designer: Dsgn. | Checker: Chkd. | YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT · DANIELLE JUNE · 28298 · STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

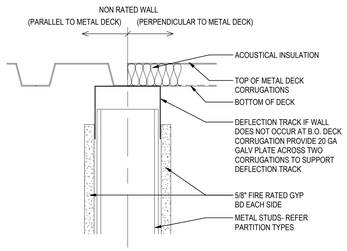
Title
WALL SPANS EXTERIOR

Project No. 214001246 | Scale: As indicated

Revision 1 | Drawing No.

A005 - PES

<Plot location in Project Information>
05/2025 0:04:49 AM
ORIGINAL SHEET - ARCH E1



NON-RATED WALL

8 A006 WALL TO DECK DETAILS

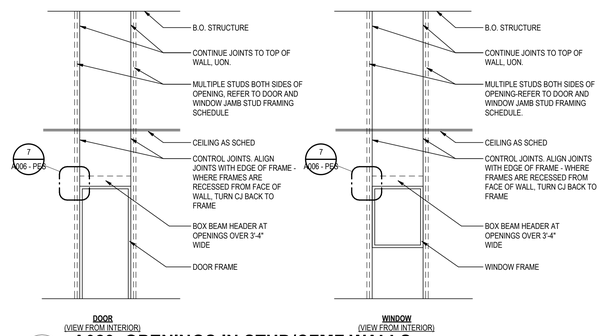
3" = 1'-0"

PES

DOOR AND WINDOW JAMB STUD/CFMF FRAMING SCHEDULE			
STUDS AT 16" OC		STUDS AT 12" OC	
CLEAR OPENING WIDTH	MIN NUMBER OF STUDS AT EACH JAMB	CLEAR OPENING WIDTH	MIN NUMBER OF STUDS AT EACH JAMB
5'-4" OR LESS	2	4'-0" OR LESS	2
5'-4"+ TO 8'-0"	3	4'-0"+ TO 6'-0"	3
8'-0"+ TO 10'-8"	4	6'-0"+ TO 8'-0"	4
10'-8"+ TO 13'-4"	5	8'-0"+ TO 10'-0"	5
13'-4"+ TO 16'-0"	6	10'-0"+ TO 12'-0"	6

NOTES:

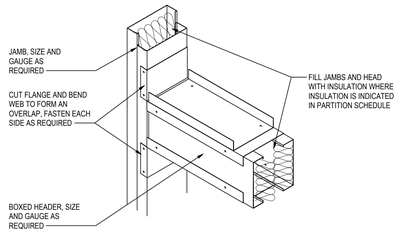
1. MULTIPLE STUDS ARE TO BE FASTENED TOGETHER AT EACH JAMB.
2. STUD FRAMING IS TO ESTABLISH DESIGN BASIS.
3. CFMF SUPPLIER TO ENGINEER ALL OPENINGS IN EXTERIOR WALLS.
4. IN ADDITION TO THOSE PROVIDED AT DOORS AND WINDOWS IN ACCORDANCE WITH DETAILS A1/A023 AND D1/A021, PROVIDE CJ'S AND ME/S AT GYPSUM BOARD WALLS, PARTITIONS, AND BULKHEADS SO THAT DISTANCE BETWEEN CJ'S AND ME/S DOES NOT EXCEED 20'-0" OC FOR EXTERIOR WALLS OR 30'-0" FOR INTERIOR WALLS. (SEE PLANS AND ELEVATIONS FOR CONTROLLED LOCATIONS)



3 A006 A023_OPENINGS IN STUD/CFMF WALLS

1" = 1'-0"

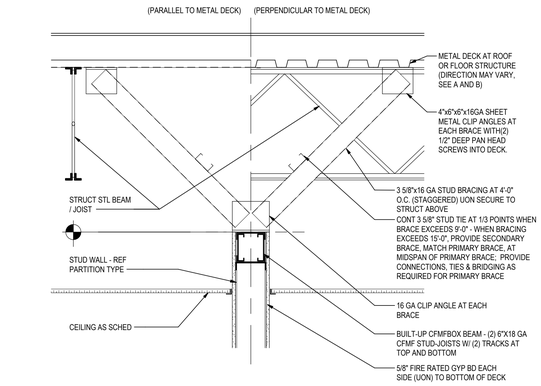
PES



7 A006 A023_CFMF BOX BEAM HEADER

1 1/2" = 1'-0"

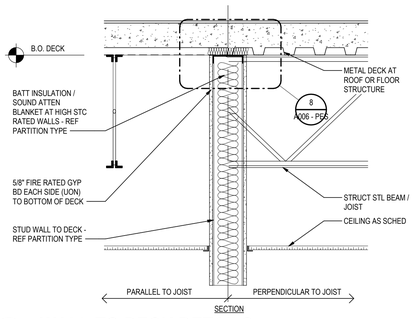
PES



6 A006 WALL TO DECK DETAILS

1" = 1'-0"

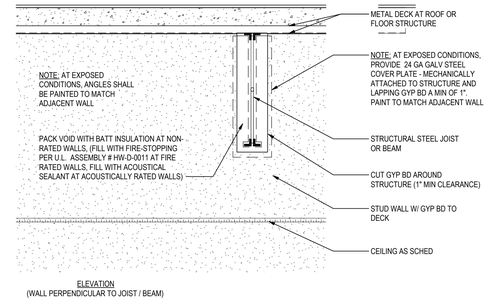
PES



5 A006 WALL TO DECK DETAILS

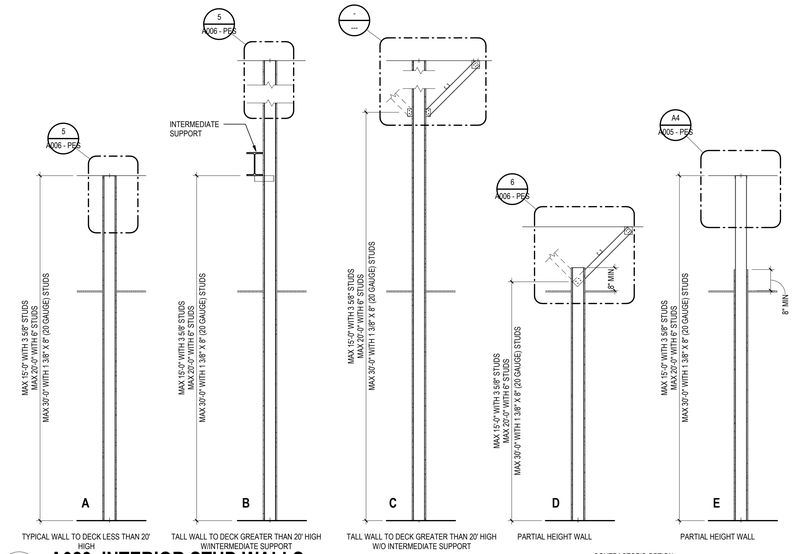
1" = 1'-0"

PES



CONSTRUCTION NOTES - INTERIOR STUDS:

1. UL ASSEMBLIES INDICATED ESTABLISH A BASIS OF PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE SOLE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED.
2. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
3. ASSEMBLIES INDICATED PROVIDE ASSEMBLY RATING UNDER FLOOR DECK.
4. NOT ALL REQUIREMENTS OF UL ASSEMBLY SHOWN.
5. PROVIDE INTERMEDIATE BRACING FOR FULL-HEIGHT INTERIOR STUD WALLS EXCEEDING MAX UNBRACED HEIGHT. REFER TO B4 THIS SHEET, DETAILS B AND C ON THIS PAGE.
6. PROVIDE DEFLECTION CONNECTION AT TOPS OF ALL STUD WALLS. FIRESTOP FIRE-RATED WALLS AND INSTALL ACOUSTICAL SEALANT AT ACOUSTICAL WALLS.
7. FURNISH MULTIPLE STUDS AT JAMBS OF ALL OPENINGS PER DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE ON THIS SHEET.
8. INSTALL CONTROL JOINTS AT OPENINGS IN INTERIOR STUD WALLS PER A1 THIS SHEET.
9. INSTALL ADDITIONAL CONTROL JOINTS SO THAT JOINT SPACING DOES NOT EXCEED 30'-0".



4 A006 A023_INTERIOR STUD WALLS

3/8" = 1'-0"

PES

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Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker
	Dwn.	Dsgn.	Chkd.
			12/07/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE HUNTER 28296 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
WALL SPANS INTERIOR AND WALL TO DECK DETAILS - CFMF

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	A006 - PES

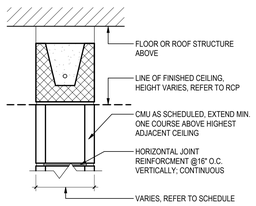
ORIGINAL SHEET - ARCH E1
•Pick location in Project Information•
1/25/2024 4:54:56 AM

INTERIOR PARTITION SCHEDULE - GROUPS A - L (LIGHT GAUGE METAL FRAMING)

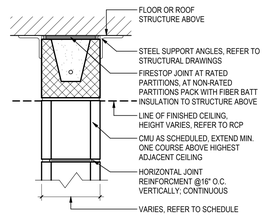
TYPE	CONSTRUCTION DATA: OVERALL PARTITION DEPTH	GWB THICKNESS	MASONRY / FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	TOP TERMINATION: STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	MASONRY TO STRUCTURE	RATED PARTITIONS: SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	ACOUSTICAL PERFORMANCE: SOUND INSULATION	STC RATING	STC TEST	NOTES
Group B - Material, Stud																		
B21	6 5/8"	5/8"	6"			TB2	BB1	●	-	-	-	-	0		-	0		INTERIOR
Group C - Material, Stud, Material																		
C10	4 7/8"	5/8"	3 5/8"			TC1	BC1	●	●	-	-	-	0		-	40	RAL-TL11-125	INTERIOR
C26	7 1/4"	5/8"	6"			TC2	BC1	●	-	-	-	-	0		-	0		INTERIOR

INTERIOR PARTITION SCHEDULE - GROUPS M - P (CMU FRAMING)

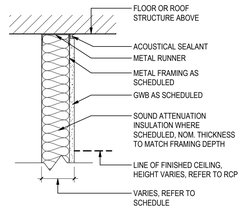
TYPE	CONSTRUCTION DATA: OVERALL PARTITION DEPTH	GWB THICKNESS	MASONRY / FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	TOP TERMINATION: STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	MASONRY TO STRUCTURE	RATED PARTITIONS: SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	ACOUSTICAL PERFORMANCE: SOUND INSULATION	STC RATING	STC TEST	NOTES
Group M - CMU																		
M01	3 5/8"	0"	4" NOM.			TM1	BM1	-	-	-	-	-	0		-	0		
M09	7 5/8"	0"	8" NOM.			TM2	BM1	-	-	-	●	-	0		-	45	KAL-359-3-66	
M11	9 5/8"	0"	10" NOM			TM2	BM1	-	-	-	●	-	0		-	45	KAL-359-3-66	



TOP TM1



TOP TM2



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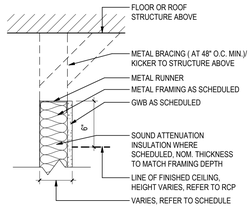

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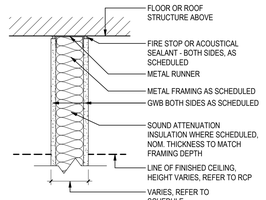
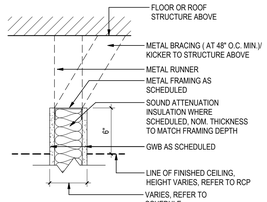


TOP TC1



TOP TC2

GENERAL NOTES - CFMF PLAN DETAILS:

1. STL STUD CHASE WALL REQUIRED AT ALL WIND BRACING & PIPE LOCATIONS ON PROJECT IN ACCORDANCE WITH DETAILS B3 ON THIS SHEET. CONTRACTOR TO PROVIDE AT ALL PIPE LOCATIONS EVEN IF CHASE WALL IS NOT GRAPHICALLY SHOWN ON DRAWINGS.
2. IN ADDITION TO THOSE PROVIDED AT DOORS AND WINDOWS IN ACCORDANCE WITH DETAIL PROVIDE CJ's AND ME.J's AT GYPSUM BOARD WALLS, PARTITIONS, AND BULKHEADS SO THAT DISTANCE BETWEEN CJ's AND ME.J's DOES NOT EXCEED 20'-0" OC FOR EXTERIOR WALLS OR 30'-0" FOR INTERIOR WALLS. (SEE PLANS AND ELEVATIONS FOR CONTROLLED LOCATIONS).

GENERAL NOTES - PARTITIONS:

1. NOT ALL PARTITION GROUPS OR TYPES HAVE BEEN UTILIZED - RESULTING TYPE NUMBERS MAY NOT BE SEQUENTIAL. REFER TO PARTITION SCHEDULES FOR TYPES UTILIZED IN THIS PROJECT.
2. FOR ALL PARTITION SYSTEMS THAT ARE INDICATED TO EXTEND FROM FLOOR SLAB TO UNDERSIDE OF STRUCTURE OR FLOOR SLAB ABOVE, INCLUDING ALL FIRE RATED PARTITIONS AND ALL PARTITIONS INDICATED TO HAVE A SOUND TRANSMISSION CLASS (STC), PROVIDE ASSEMBLY AT HEAD OF PARTITION THAT WILL ACCOMODATE A MINIMUM DEFLECTION OF THE STRUCTURE ABOVE THE PARTITION AS INDICATED ON THE STRUCTURAL DRAWING, BUT NOT LESS THAN L/360 (WHERE L = SPAN OF THE STRUCTURE) WITHOUT TRANSFERRING LOADS RESULTANT FROM THAT DEFLECTION TO THE PARTITION ASSEMBLY.
3. PROVIDE ASSEMBLY THAT WILL TRANSFER LATERAL LOADS APPLIED NORMAL TO THE FACE OF THE PARTITION SYSTEM INTO THE STRUCTURE OR FLOOR SLAB ABOVE. WHERE FIRE-RATED PARTITIONS OCCUR, PROVIDE A UL-LISTED AND APPROVED HEAD ASSEMBLY FOR THAT PARTITION THAT HAS BEEN TESTED AND DETERMINED TO PROVIDE A FIRE RATING EQUIVALENT TO THAT OF THE FIRE RATED PARTITION. WHERE PARTITIONS INDICATED TO HAVE A SOUND TRANSMISSION CLASS OCCURS, PROVIDE A HEAD ASSEMBLY FOR THAT PARTITION THAT HAS BEEN TESTED AND DETERMINED TO PROVIDE A SOUND TRANSMISSION CLASS EQUIVALENT TO THAT OF THE SOUND RATED PARTITION. ALL HEAD ASSEMBLIES SHALL BE INSTALLED IN STRICT CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS.
4. REFER TO A300 FOR EXTERIOR WALL BUILDING ASSEMBLIES.
5. REFER TO CODE REVIEW IN G100 SERIES FOR LOCATION & EXTENT OF RATED ASSEMBLIES.

INTERIOR STUD CONSTRUCTION NOTES:

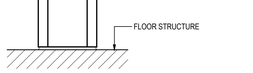
1. GYP BD TO BE 5/8" FIRE RESISTIVE & IMPACT RESISTIVE (UON).
2. PROVIDE CONT ACOUSTICAL SEALANT ON BOTH SIDES AT ADJACENT WALLS AND AT TOP AND BOTTOM OF GYPSUM BOARD ASSEMBLY WALLS TO FLOOR/ROOF DECK AND FLOOR.
3. PROVIDE 1/2" CEMENTITIOUS TILE BACKER BOARD BEHIND TILE AT WET WALLS PROVIDE 5/8" WR GYP BD BEHIND TILE AT NON-WET WALLS, AND AT NON-TILED WET WALLS.
4. PROVIDE SOUND ATTENUATION FIRE BLANKET INSULATION AT ALL RESTROOM WALLS AND MECHANICAL ROOM WALL(S) ADJACENT TO CLASSROOMS OR ADMINISTRATION (INDICATED OR NOT).
5. REFER TO D6/A032 FOR TYPICAL GYP BD CONTROL JOINT DETAILS

INTERIOR CMU CONSTRUCTION NOTES:

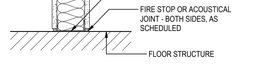
1. PROVIDE A CONT BOND BEAM AT THE BOTTOM OF CMU WALLS AT THE FIRST COURSE ABOVE THE FLOOR LEVEL - DISCONTINUE BOND BEAMS INTO REINFORCED JAMBS AT OPENINGS IN WALLS.
2. PROVIDE A CONT BOND BEAM AT 8'-0" O.C. MAX VERTICALLY (ALIGN WITH DOOR HEAD LINTELS WHERE POSSIBLE) FOR RUNNING BOND CMU - AND - AT 4'-0" O.C. MAX VERTICALLY (ALIGN WITH DOOR HEAD LINTELS WHERE POSSIBLE) FOR STACK BOND CMU. FOR SPACING ABOVE DOOR HEADS, START MEASURING FROM THE CENTER LINE OF LINTELS. DISCONTINUE BOND BEAMS INTO REINFORCED JAMBS AT OPENINGS IN WALLS OR INTO OTHER BOND BEAMS WHERE TOP OF WALL SLOPES.
3. ALL INTERIOR SINGLE WYTHE CMU WALLS SHALL HAVE HORIZONTAL JOINT REINFORECEMENT AT 16" OC.
4. PROVIDE CONTROL JOINTS IN INTERIOR CMU WALLS @ 20'-0" OC MAX AND AT ALL INTERSECTIONS WITH EXTERIOR WALLS. REFER C3/A021, D4/A021 AND SHEET A033 FOR TYP MASONRY CONTROL JOINT (CJ) DETAILS

ACOUSTIC PARTITION CONSTRUCTION NOTES:

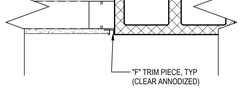
1. PROVIDE CONTINUOUS ACOUSTICAL SEALANT (BOTH SIDES) AT ALL NON-RATED PARTITION HEAD, BASE & JAMB TERMINATION JOINTS. FILL HEAD DEFLECTION VOID AND DECK FLUTES WITH 10 PDC GLASS FIBER INSULATION.
2. PROVIDE SOUND ATTENUATING BLANKET INSULATION AT ALL PARTITIONS (INDICATED OR NOT) WITHIN AND SURROUNDING SOUND SENSITIVE AREAS *(OFFICES, BATHROOMS)*
3. PENETRATIONS THROUGH SOUND ISOLATING WALLS TO BE FULLY SEALED AROUND ENTIRE PERIMETER. PENETRATING ELEMENTS TO BE CENTERED WITHIN OPENING SO THAT THEY NEITHER TOUCH NOR BEAR ON SURROUNDING CONSTRUCTION AND ARE FULLY SEALED.
4. ALL ELECTRICAL AND TELECOMMUNICATIONS BOXES WITHIN SOUND ISOLATING WALLS SHALL BE INSTALLED IN ALTERNATING STUD BAYS TO MINIMIZE FLANKING SOUND PATHS. SEAL DEVICE TO DRYWALL CUT-OUTS WITH MOLDABLE PUTTY PAD - BASIS OF DESIGN TO BE 3M FIRE BARRIER MOLDABLE PUTTY PAD.
5. ALL ELECTRICAL AND TELECOMMUNICATION OUTLET BOXES IN FIRE RATED BARRIER PARTITIONS TO RECEIVE FIRE RATED MOLDABLE PUTTY PAD - BASIS OF DESIGN TO BE 3M FIRE BARRIER MOLDABLE PUTTY PAD.



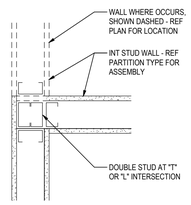
BASE BM1



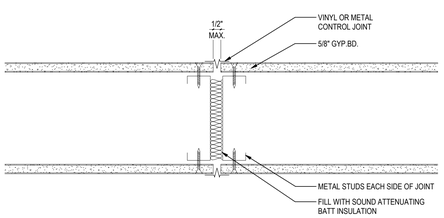
BASE BC1



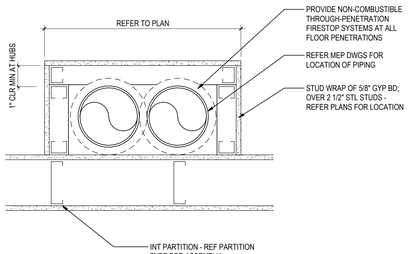
C3 / A007 — CMU TO GYP TRANSITION
1 1/2" = 1'-0"
PES



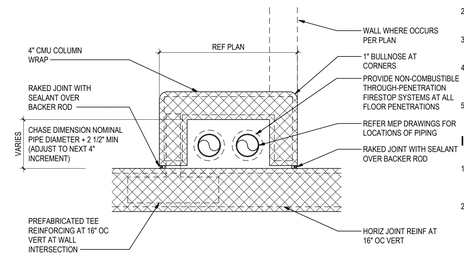
B1 / A007 — CFMF INTERSTECTION
1 1/2" = 1'-0"
PES



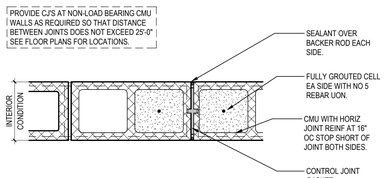
B2 / A007 — CFMF_CONTROL JOINT
3" = 1'-0"
PES



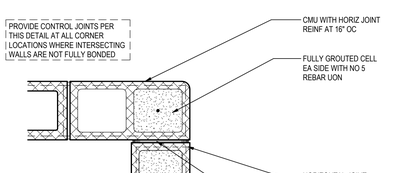
B3 / A007 — CHASE_CFMF
1 1/2" = 1'-0"
PES



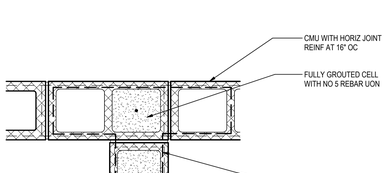
B4 / A007 — CMU_CHASE PIPE WRAP
1 1/2" = 1'-0"
PES



A1 / A007 — CMU_CONTROL JOINT (CJ) - VERT SPAN
1 1/2" = 1'-0"
PES



A2 / A007 — CMU_CONTROL JOINT (CJ) - VERT SPAN CORNER
1 1/2" = 1'-0"
PES



A3 / A007 — CMU_BONDED INTERSECTION - VERT SPAN
1 1/2" = 1'-0"
PES

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE QUINN — 28298 — STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TYPICAL INTERIOR PARTITION HEAD DETAILS/TYPICAL PLAN DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A007 - PES

<Pw location in Project Information>
12/2/2025 4:05:04 AM
ORIGINAL SHEET - ARCH E1

SCOPE OF WORK LEGEND

- EXISTING (NO WORK IN THIS AREA)
- EXISTING - AREA OF RENOVATION. CARPET REPLACEMENT WHERE NOTED (REFER TO A900), AND NEW PAINT IN CORRIDORS
- NEW WORK - GROUND UP ADDITION*

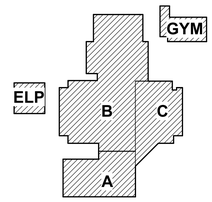
* SEE ADDITIONAL SCOPE OF WORK AS SHOWN IN MEP-FP-T DRAWINGS.

** SEE CIVIL FOR ADDITIONAL SCOPE OF WORK FOR SITE DRAINAGE, SANITARY

GENERAL NOTES

1. PAINT INTERIOR SURFACES AND MISCELLANEOUS EXTERIOR SURFACES. REPAIR/PATCH WALLS PRIOR TO PAINTING.

2. DO NOT PAINT OVER MURALS, PROTECT THE BLUE STRIPING AND PAINTED WORDS



KEY PLAN

PROJECT NORTH

A1 FLOOR PLAN - EXISTING CLASSROOM BUILDING

A100

1/16" = 1'-0"

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REGISTERED ARCHITECT — DANIELLE DUNN — 29878 — STATE OF TEXAS

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

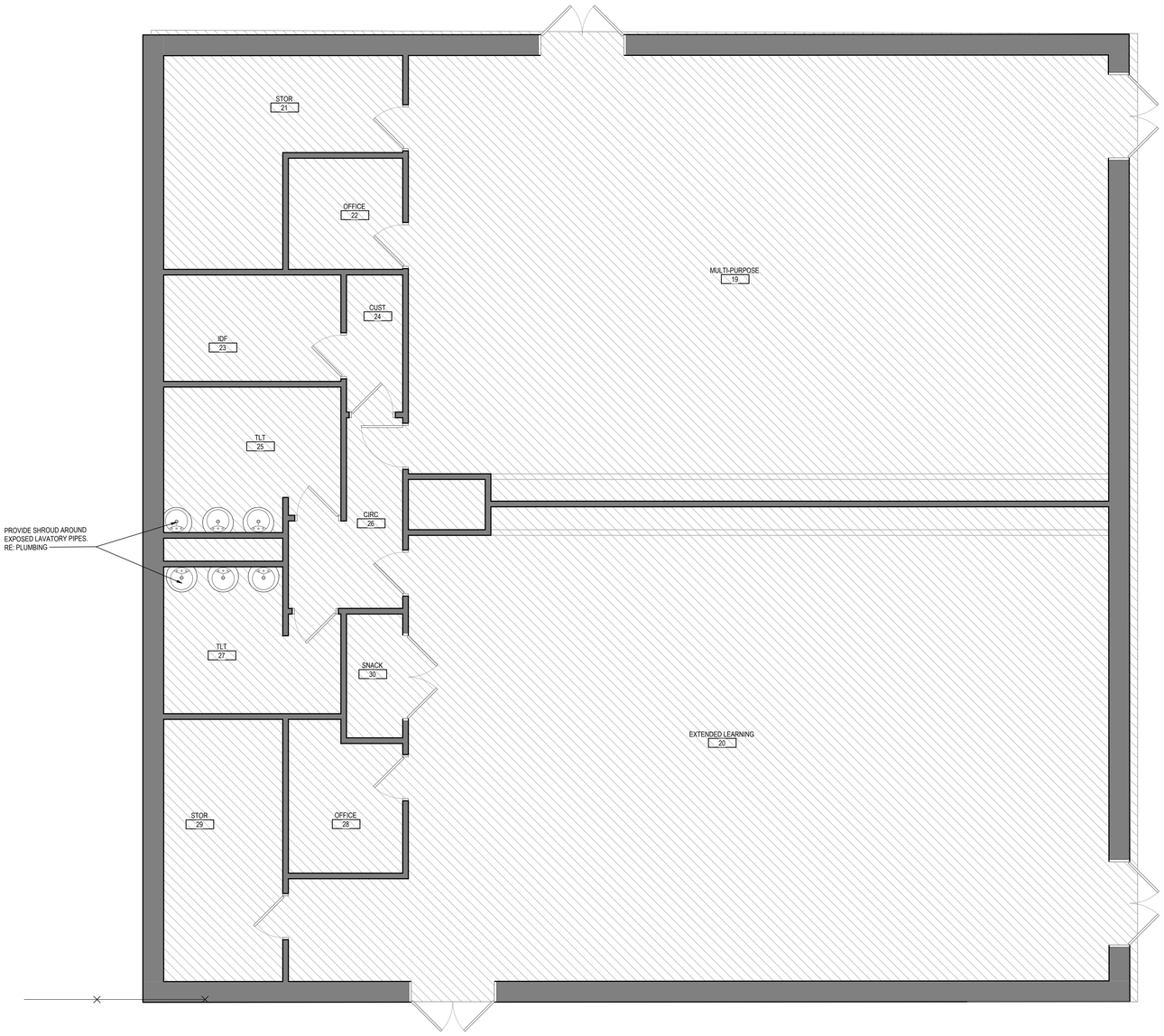
Title
COMPOSITE FLOOR PLAN - EXISTING AND NEW

Project No. 214001246 — Scale: As indicated
Revision — Drawing No.

A100 - PES

*Plot location in Project Information
9/25/2025 4:05:13 AM

ORIGINAL PES ARCHITECT



GENERAL NOTES

1. ALTERNATE: REPAIR TORN LAYERS OF FACED INSULATION

2. ALTERNATE: REPLACE HALOGEN LIGHTING IN EXTENDED DAY ROOM AND OLD GYM WITH LED HIGH PAY LIGHTS

3. ALTERNATE: PROVIDE INSULATING PIPE PROTECTION AROUND EXISTING LAVATORIES IN GIRLS AND BOYS RESTROOMS

A1 / A101
ENLARGED FLOOR PLAN - ELP
1/4" = 1'-0"

PES

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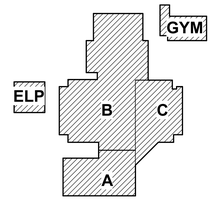

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

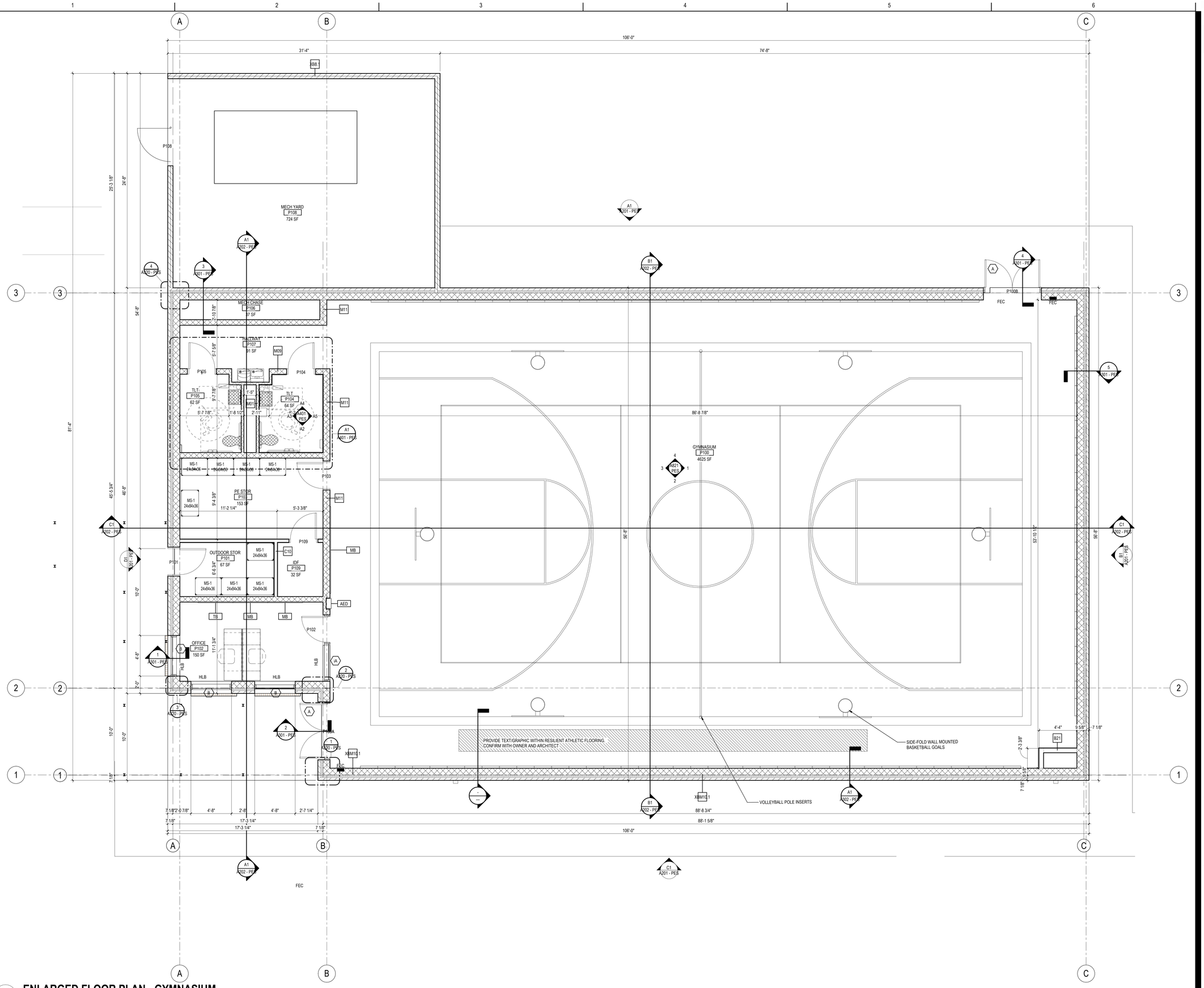
Title
FLOOR PLAN - ELP

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A101 - PES

*Plot location in Project Information
1/30/2026 4:05:19 AM

ORIGINAL SHEET - ARCH E1



A1 A103
ENLARGED FLOOR PLAN - GYMNASIUM
1/4" = 1'-0"

PES

<Kick location in Project Information>
12/5/2025 8:55:46 AM

ORIGINAL SHEET - ARCH E1

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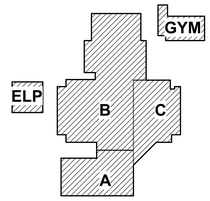

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
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DANIELLE QUINN
STATE OF TEXAS

Client/Project Logo

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Client/Project
FORT BEND ISD

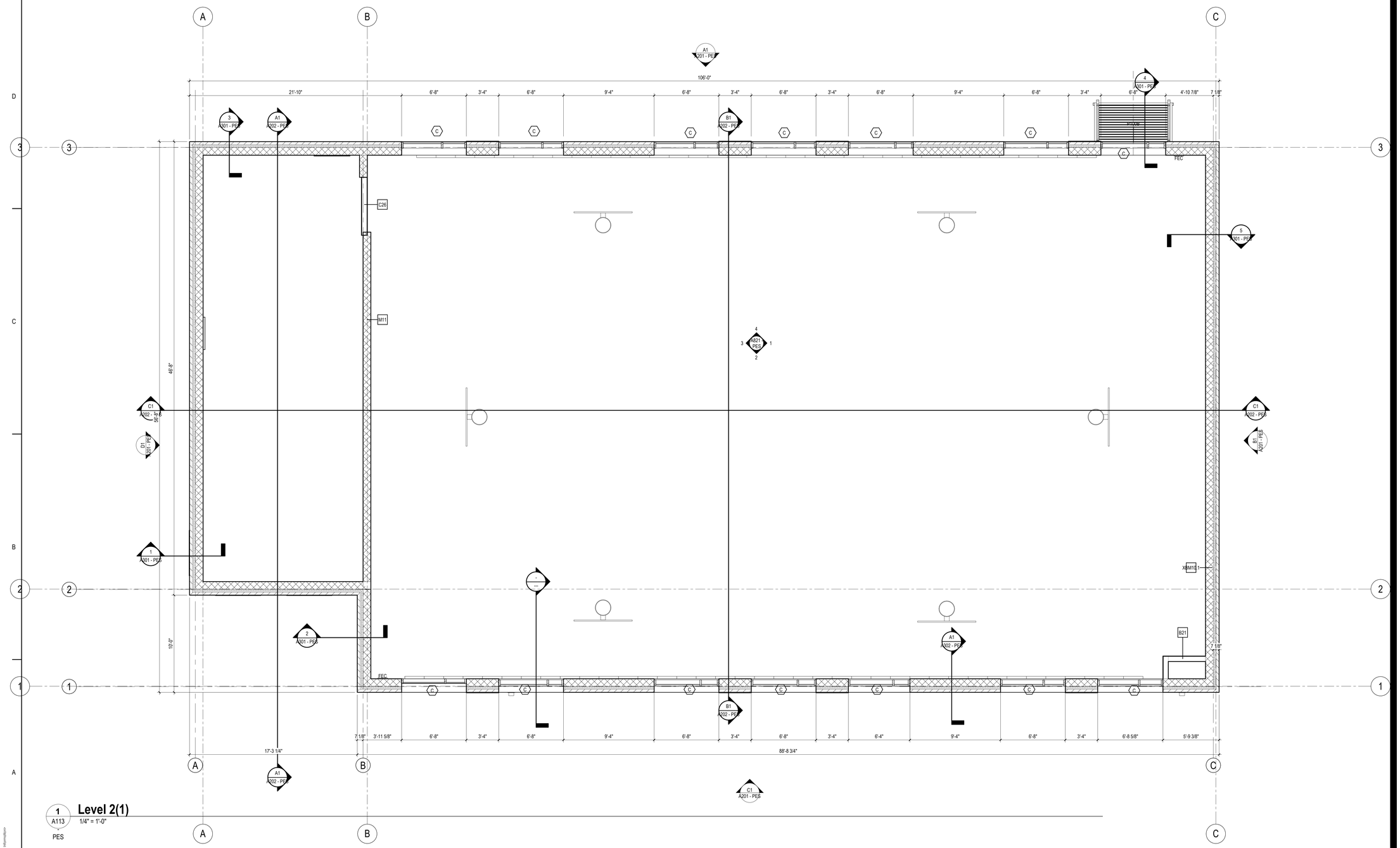
FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
FLOOR PLAN - GYMNASIUM

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A103 - PES



1 A113 PES

Level 2(1)

1/4" = 1'-0"

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
GYMNASIUM CLERESTORY PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A113 - PES

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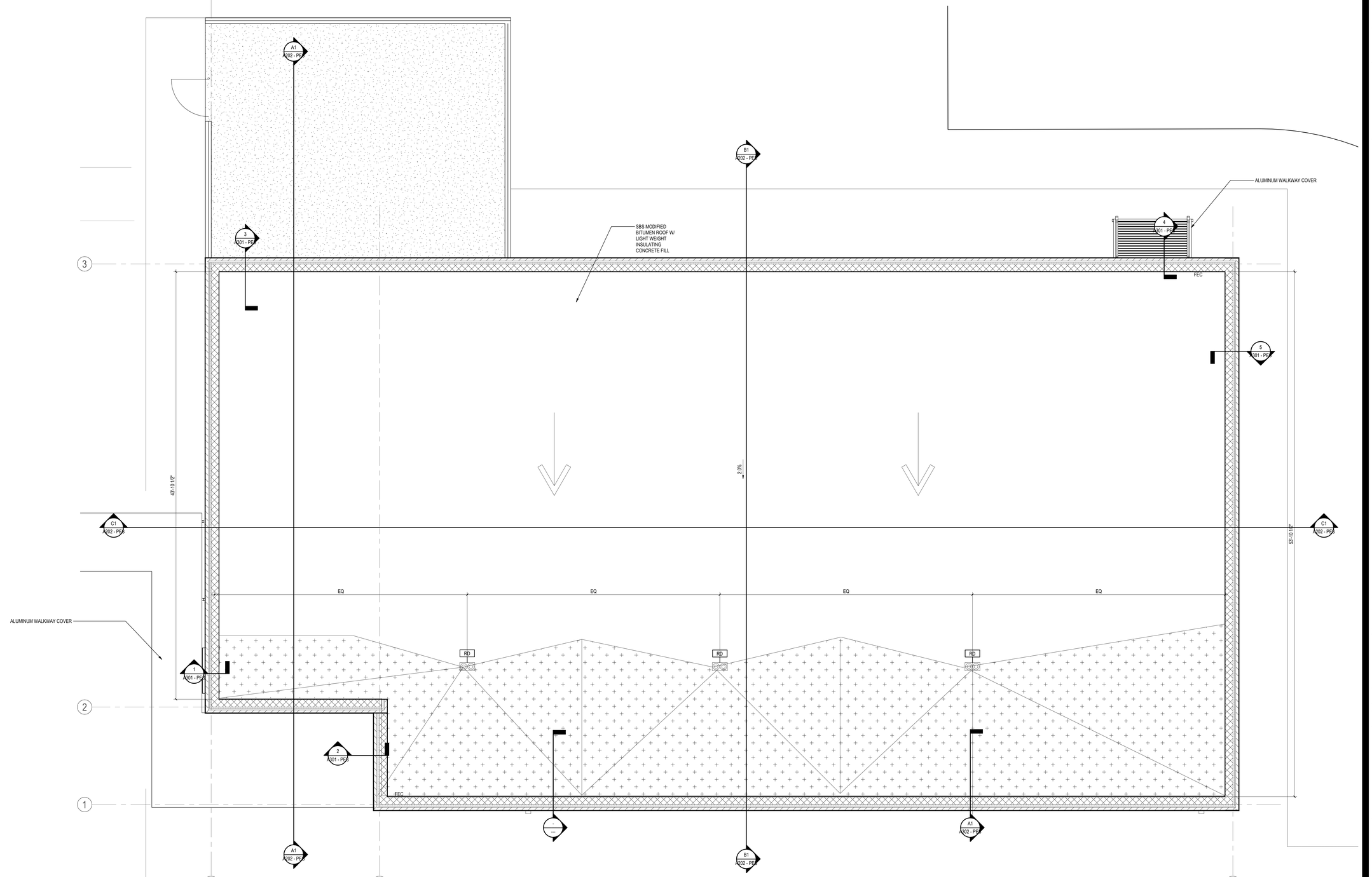
12/5/2025 4:09:47 AM
ORIGINAL SHEET - ARCH E1



A1 / A133 — **ROOF PLAN**
1/4" = 1'-0"
PES

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File Name: N/A	Author	Designer	Checker	12/07/24
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28295
STATE OF TEXAS

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

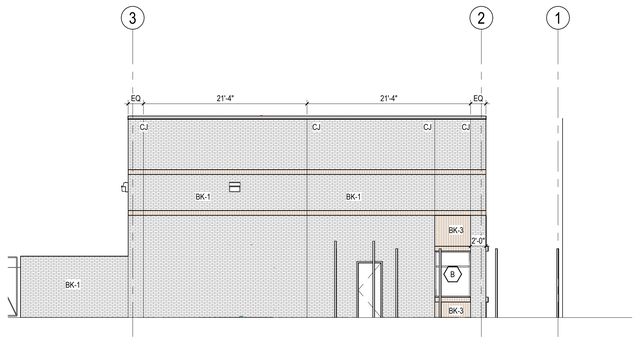
Title
ROOF PLAN

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A133 - PES

*Plot location in Project Information
1/30/2025 4:49:33 AM

ORIGINAL SHEET - ARCH E1

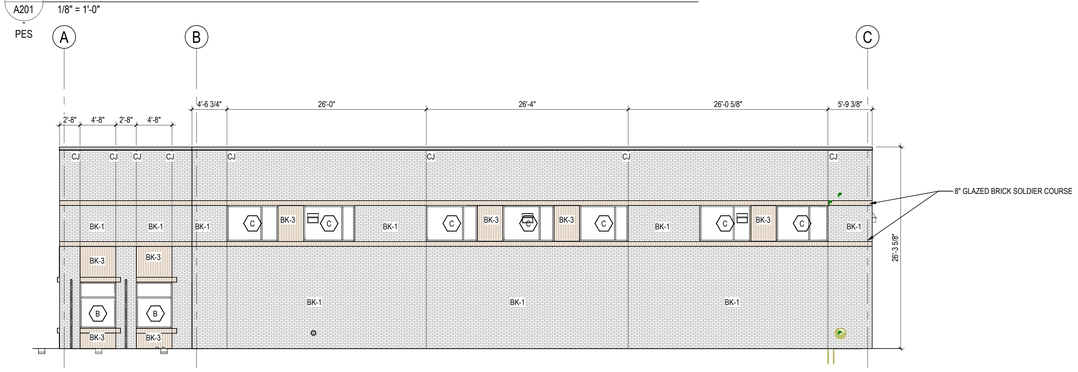


D1 WEST ELEVATION

A201

1/8" = 1'-0"

PES



C1 SOUTH ELEVATION

A201

1/8" = 1'-0"

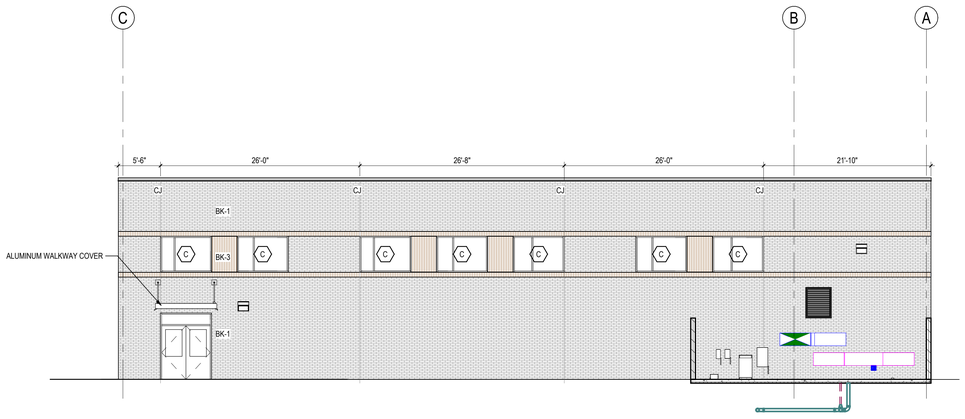
PES

B1 EAST ELEVATION

A201

1/8" = 1'-0"

PES



A1 NORTH ELEVATION

A201

1/8" = 1'-0"

PES

EXTERIOR MATERIALS LEGEND

1. BK-1 BOD: INTERSTATE MODULAR BRICK, TUMBLEWEED
2. BK-2 BOD: BELDEN GLAZED MODULAR BRICK. DOLPHIN GRAY
3. BK-3 BOD: BELDEN GLAZED MODULAR BRICK. CRANBERRY
4. BK-4 BOD: CLOUD CERAMICS VELOUR MODULAR. DOVE GREY

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100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE DUNN
28298
STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

EXTERIOR ELEVATIONS - GYMNASIUM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A201 - PES

<Plot Location in Project Information>
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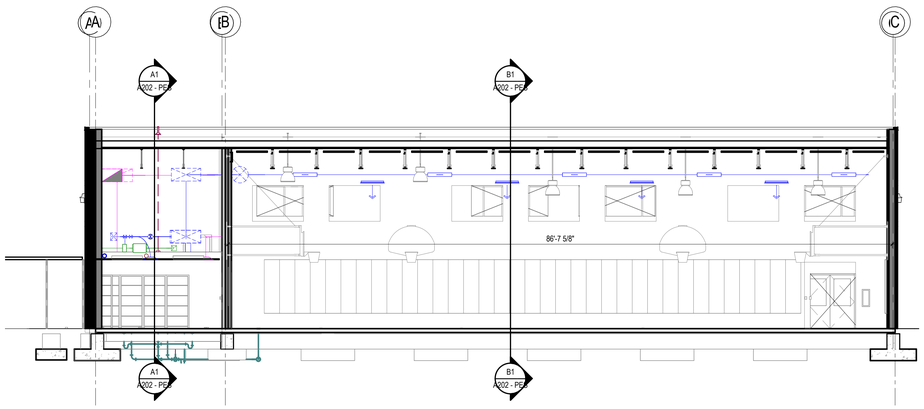
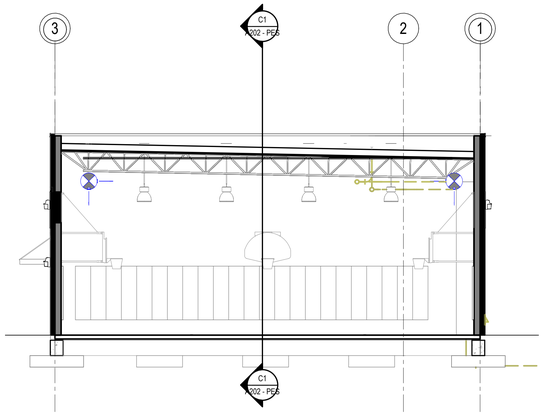
ORIGINAL SHEET - ARCH E1



C1 A202 PES

BUILDING SECTION

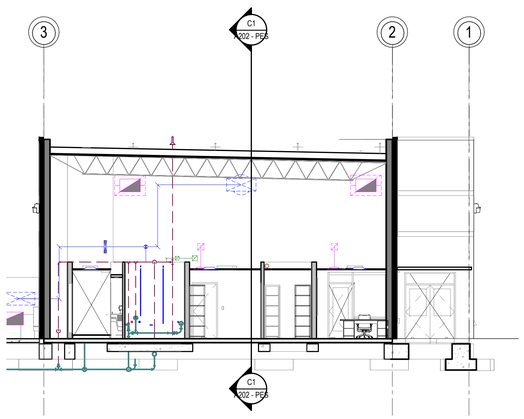
1/8" = 1'-0"



B1 A202 PES

BUILDING SECTION

1/8" = 1'-0"



A1 A202 PES

BUILDING SECTION

1/8" = 1'-0"

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

BUILDING SECTIONS

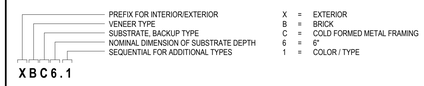
Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.

A202 - PES

*Plot location in Project Information
1/31/2025 8:58:09 AM

ORIGINAL SHEET - ARCH E1

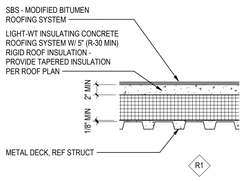
BUILDING SYSTEMS TYPES TABLE

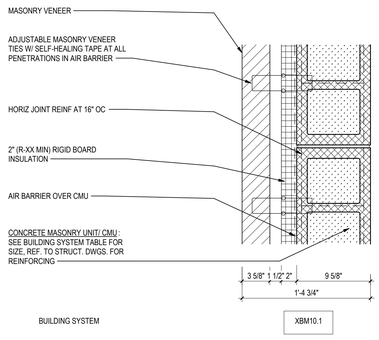


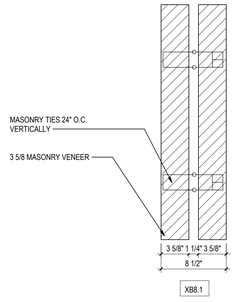
PREFIX	
X	= EXTERIOR

VENEER TYPES	
B	= BRICK
M	= CMU (MASONRY)
0	= NO VENEER

SUBSTRATE		NOMINAL DEPTH		
C	= COLD FORMED METAL FRAMING (CFMF)	4	= 4"	
		6	= 6 "	: 6" x 16 GA. @ 16" O.C. - 12" O.C. AT 10'-0" FROM ALL CORNERS
		8	= 8 "	: 8" x 16 GA. @ 16" O.C. - 12" O.C. AT 10'-0" FROM ALL CORNERS
M	= CONCRETE MASONRY UNIT (CMU)	6	= 5 5/8 "	
		8	= 7 5/8 "	
		10	= 9 5/8 "	
		12	= 11 5/8 "	







GENERAL NOTES - WALL SECTIONS:

GENERAL

1. THE SECTIONS DO NOT INDICATE ALL INSTANCES OF MASONRY BANDING, CORBELLING, AND OTHER VENEER CONDITIONS. REFER TO SECTION DETAILS AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

ROOF / FLASHING AND MISC CONSTR

1. MULTI-PLY ROOF WORK NOT SPECIFICALLY DETAILED SHALL BE DESIGNED AND EXECUTED IN ACCORDANCE WITH 'NRCA' MANUAL REQUIREMENTS.
2. SHEET METAL WORK NOT SPECIFICALLY DETAILED SHALL BE DESIGNED AND EXECUTED IN ACCORDANCE WITH 'SMACNA' MANUAL REQUIREMENTS.
3. WHERE 'SMACNA' MANUAL IS REFERENCED, THESE DOCUMENTS REFER TO THE 7TH EDITION, 2012.
4. JOINTS FOR COPINGS, ROOF EDGES AND EXPOSED FLASHING SHALL BE PER 'SMACNA', TABLE 3-1. PROVIDE JOINT J5 FOR PREFINISHED MATERIAL FOR COPING (24 GA UP TO 18" WIDE AND 22 GA UP TO 18" WIDE) AND JOINT J8 FOR GALVALUM AND GALV MATERIAL TOP BACK OF PARAPET.
5. THROUGH-WALL COUNTERFLASHINGS SHALL BE TWO-PIECE PREFIN GALV STL IAW 'SMACNA' MANUAL FIG 4-4C, W/ HOLD-DOWN CLIPS 32" OC UON.
6. WEEPS SHALL BE AT 24" OC AT MASONRY VENEER UON. WEEPS SHALL BE AT 32" OC WHERE MASONRY VENEER IS CMU.
7. PROVIDE CONT WATERSTOPS AT ALL EXTERIOR WALLS THAT DO NOT HAVE A BRICK LEDGE. WATERSTOP SHALL BE CONT EMBEDDED SST FLASHING W/ 1" MIN EMBED INTO CONC SLAB AND SHALL LAP 6" MIN OVER EXT GYP SHEATHING/UNDER VAPOR PERMEABLE AIR BARRIER -OR- SHALL LAP 6" MIN OVER CMU BACKUP/UNDER RIGID INSUL AND VAPOR PERMEABLE AIR BARRIER. ALIGN WATERSTOP W/ OUTSIDE FACE OF EXT GYP SHEATHING OR CMU BACKUP.
8. ALL PENETRATIONS IN RATED WALLS AND FLOORS SHALL HAVE FIRESTOPPING AS REQUIRED PER CODE.
9. REFER TO 'LOOSE STEEL ANGLE LINTEL FOR MASONRY VENEER' SCHEDULE, SHEET A003 FOR UNDESIGNATED, UNBRACED VENEER, PER SPAN, AT WALL OPENINGS.
10. REFER TO 'MISC STEEL BRACING' SCHEDULE AT SHEET A006 FOR UNDESIGNATED MISC STL BRACING FOR WALLS.
11. REFER TO STRUCT DOCS FOR EXACT LOCATIONS AND TYPES OF STRUCT MEMBERS FOR JOIST BEARING , TOP OF STEEL/BOTTOM OF DECK ELEVATIONS, AND FOR COMPLETE DETAILS OF ALL STRUCT CONNECTIONS. INDICATIONS IN WALL SECTIONS ARE FOR COORDINATION PURPOSES ONLY. NOTIFY ARCHITECT OF ANY DISCREPANCIES
12. REFER TO ELEVATIONS AND STRUCT DOCS FOR MASONRY VENEER PATTERNS, BRICK LEDGES AND STEPS IN PARAPETS.
13. SUSP/BRACED AND FRAMED PCP SOFFITS THAT MEET WALLS SHALL HAVE CONT PERIMETER SOFFIT VENTS, UON.
14. REFER TO FLOOR PLANS FOR EXACT PLACEMENT OF WINDOWS.
15. REFER TO CODE SHEETS (G-SERIES) FOR FIRE ASSEMBLY REQUIREMENTS AND EXTENTS.
16. PROVIDE SPRAYED-ON FIRE PROOFING IAW ASSEMBLIES INDICATED ON CODE SHEET G101 - G10X AS REQUIRED TO COMPLY WITH LOCAL CODE REQUIREMENTS INDICATED.
17. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF SOUND ABSORBING CMU IN GYMNASIUMS.

CFMF, STL STUD AND GYP BD SYSTEM CONSTR

1. METAL FRAMING FOR EXTERIOR WALLS SHALL BE CFMF AND INTERIOR METAL FRAMING SHALL BE STL STUDS, UON.
2. UNDESIGNATED CFMF SHALL BE 16GA MIN W/ 1 5/8" MIN WIDE FLANGES AT 16"OC MIN (12"OC MAX FOR 10'-0" EA SIDE AT OUTSIDE CORNERS). REFER TO BUILDING SYSTEM TYPES AND DETAILS FOR MEMBER DEPTHS. CFMF SYSTEMS SUPPORTING MASONRY VENEER SHALL RESIST CODE REQUIRED WIND PRESSURES AT DEFLECTION LESS THAN OR EQUAL TO L/600. CFMF SYSTEMS NOT SUPPORTING MASONRY VENEER SHALL RESIST CODE REQUIRED WIND PRESSURES AT DEFLECTION LESS THAN OR EQUAL TO L/360. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THESE CRITERIA AND INDICATED CFMF MEMBER SIZES AND SPACINGS.
3. CFMF AND STUD MEMBERS SHALL HAVE BOTH FLANGES BRACED - WHERE THERE IS NO SHEATHING OR FINISH MATERIAL CALLED OUT, PROVIDE V-BAR BRACING OR BRIDGING AT 24"OC MAX.
4. CFMF BRIDGING SHALL BE 6"x18GA CFMF AT 24"OC, UON.
5. WHERE CFMF ARE 12"OC, VENEER TIES SHALL BE 16"OC VERT AND 12"OC HORIZONTAL
6. ALL BATT INSUL IN EXT WALLS SHALL BE UNFACED. WHERE CFMF STUD DEPTH EXCEED INSUL THICKNESS, INSUL SHALL BE PLACED AT EXT SIDE OF STUD.
7. PROVIDE CONT SPECIFIED VAPOR PERMEABLE AIR BARRIER ON OUTSIDE FACE OF GYP SHEATHING OR OUTSIDE FACE OF CMU BACK-UP AS REQUIRED BY BUILDING SYSTEM TYPE.
8. AT RADIUSED SURFACES IN GYP BD BULKHEADS USE APPROPRIATE THICKNESS OF GYP BOARD TO ACHIEVE INDICATED RADIUS. USE APPROPRIATE NUMBER OF LAYERS OF GYP BD TO MAINTAIN THICKNESS OF WALLBOARD INDICATED IN DETAILS AND PARTITION TYPES. PREVENT FLAT AREAS BETWEEN FRAMING BY SPACING STUDS CLOSER THAN NORMAL. WORK SHALL BE PERFORMED IN ACCORDANCE WITH GYPSUM ASSOCIATION PUBLICATION GA-226.
9. CFMF SHALL BE BRACED AS REQUIRED TO MAINTAIN STUD SPANS PER MFR HEIGHT LIMITING TABLES. STUD BRACING SHALL OCCUR ABOVE CEILINGS ONLY. WHEN THIS IS NOT POSSIBLE PROVIDE STUDS OF AN APPROPRIATE GAUGE OR DEPTH FOR THE CONDITION.
10. REFER TO 'DOOR AND WINDOW JAMB SCHEDULE' ON SHEET A006 FOR NUMBER OF STUDS AT JAMBS IN CFMF AND STL STUD AND GYP BD CONSTR.

CMU CONSTR

1. CMUMASONRY MULTI-WYTHE CAVITY WALLS SHALL HAVE LADDER DESIGN HORIZ REINF AT 16" OC.
2. ALL INTERIOR SINGLE WYTHE CMU WALLS SHALL HAVE HORIZONTAL JOINT REINFORECEMENT AT 16" OC.
3. REFER STRUCT DOCS FOR DESIGN OF LOAD-BEARING WALL AND EXTERIOR NON-LOADBEARING WALLS.
4. UNDESIGNATED CMU BOND BEAMS SHALL HAVE CONT #5 BARS AT TOP AND BOTTOM AND SHALL BE GROUTED SOLID.
5. PROVIDE CONT BOND BEAMS AT TOPS OF ALL CMU WALLS UNLESS OTHERWISE INDICATED. PROVIDE STEPS AS REQUIRED FOR SLOPES.
6. WHERE A BOND BEAM IS INTERRUPTED BY A WALL OPENING, THE BOND BEAM SHALL CONTINUE ABOVE THE OPENING AND SHALL BE ANCHORED TO CONT GROUTED AND VERT REINFORCED JAMB CELLS AT EA SIDE ON HORIZONTAL SPANNING WALLS.
7. REFER TO 'CONCRETE 'U' BLOCK LINTELS' SCHEDULE SHEET A### FOR UNDESIGNATED LINTELS, PER SPAN AT CMU WALL OPENINGS.
8. NON LOAD-BEARING MASONRY WALL PARAPETS SHALL BE REINF W/ No 5 BARS AT 32" OC VERT IN FULLY GROUTED CELLS. EXTENDING BELOW BRACE POINT EQUAL DISTANCE TO PARAPET ABOVE BRACE POINT

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title

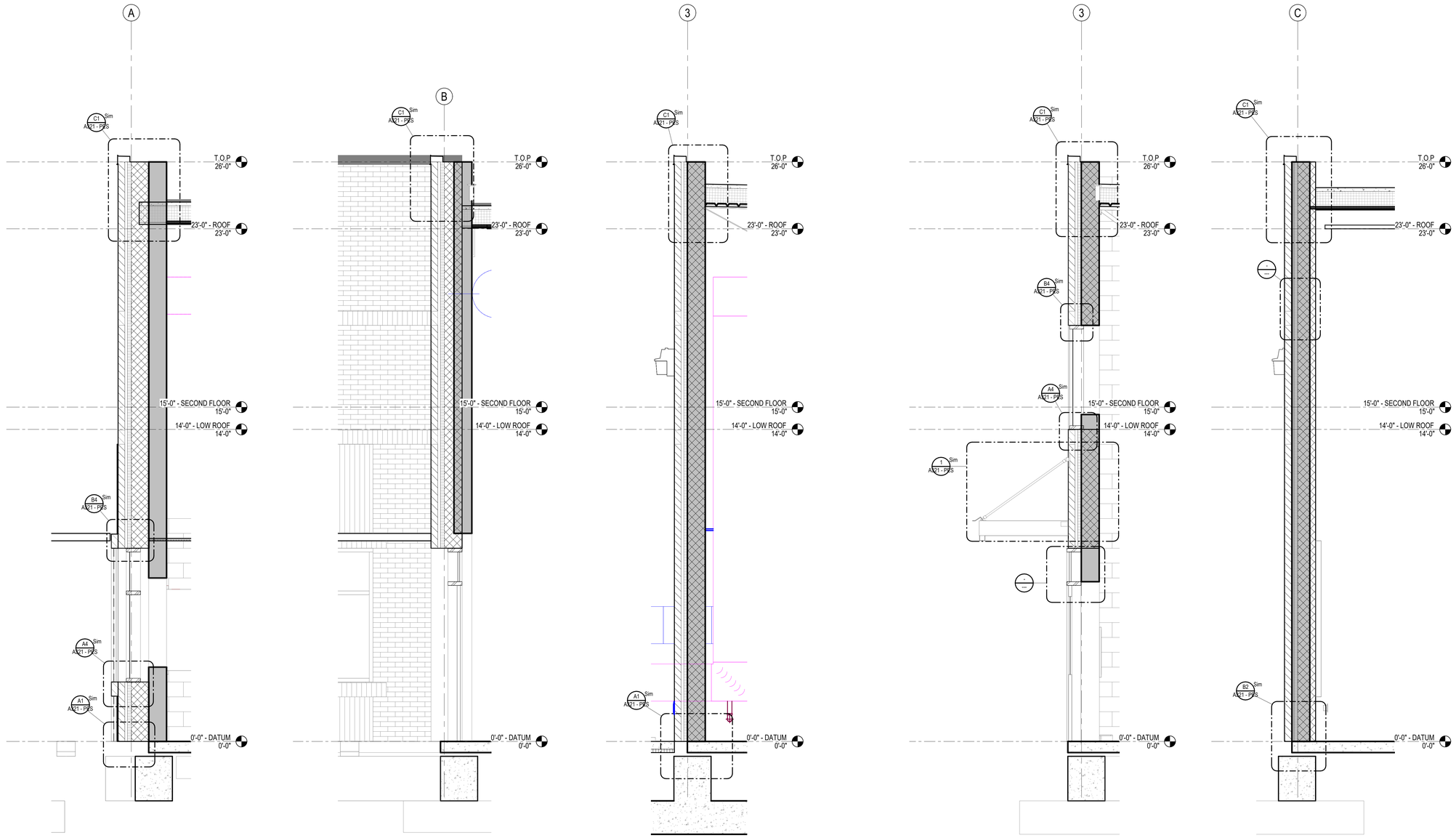
EXTERIOR WALL & ROOFING TYPES

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A300 - PES

<Pick location in Project Information>
12/5/2025 4:54:23 AM

ORIGINAL SHEET - ARCH E1



1 A301 **WALL SECTION** 1/2" = 1'-0"
PES

2 A301 **WALL SECTION** 1/2" = 1'-0"
PES

3 A301 **WALL SECTION** 1/2" = 1'-0"
PES

4 A301 **WALL SECTION** 1/2" = 1'-0"
PES

5 A301 **WALL SECTION** 1/2" = 1'-0"
PES

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project Logo

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Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
EXTERIOR WALL SECTIONS

Project No.	Scale
214001246	1/2" = 1'-0"
Revision	Drawing No.

A301 - PES

<Plot Location in Project Information>
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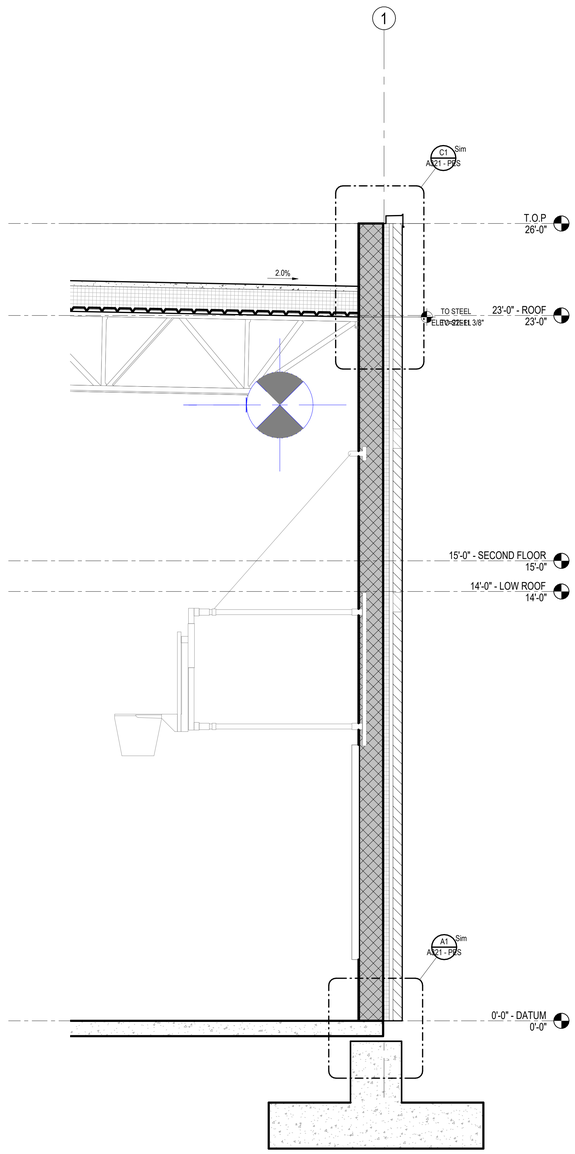

A1 A302 **WALL SECTION**

1/2" = 1'-0"

PES

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REGISTERED ARCHITECT
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28298

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
EXTERIOR WALL SECTIONS

Project No.	Scale
214001246	1/2" = 1'-0"

Revision | Drawing No.

A302 - PES

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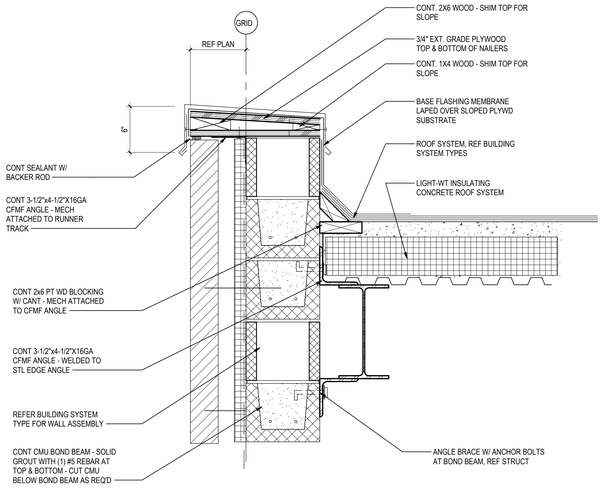

C1 A321 **DETAIL @ ROOF & PARAPET**
1 1/2" = 1'-0"
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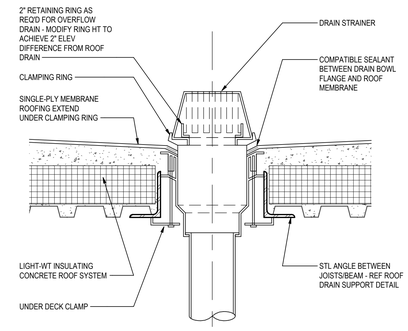

C2 A321 **DETAIL @ ROOF DRAIN**
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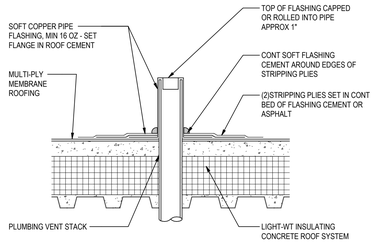
PES



B2 A321 **DETAIL @ ROOF STACK**
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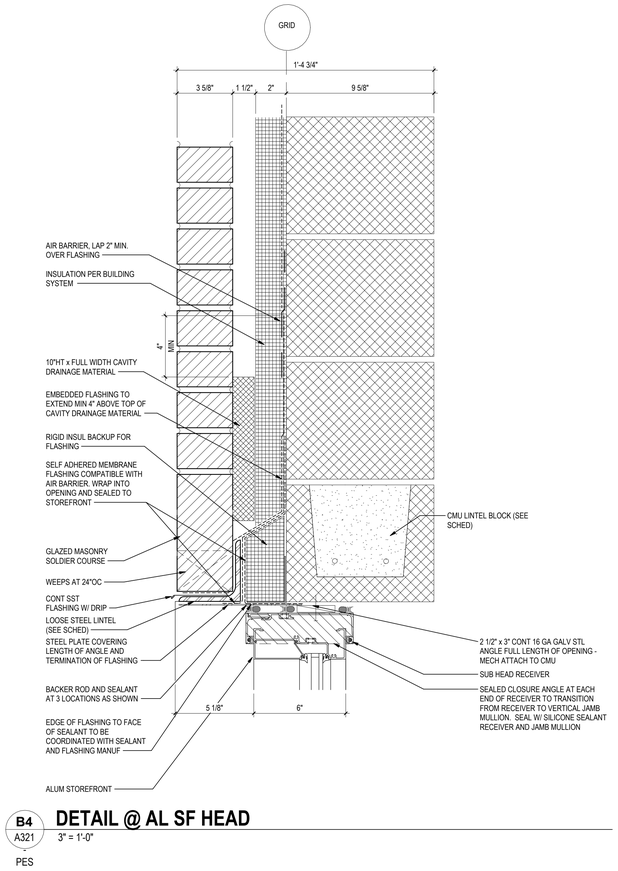
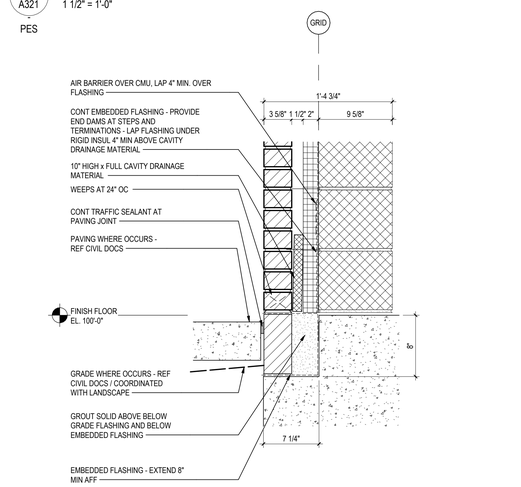
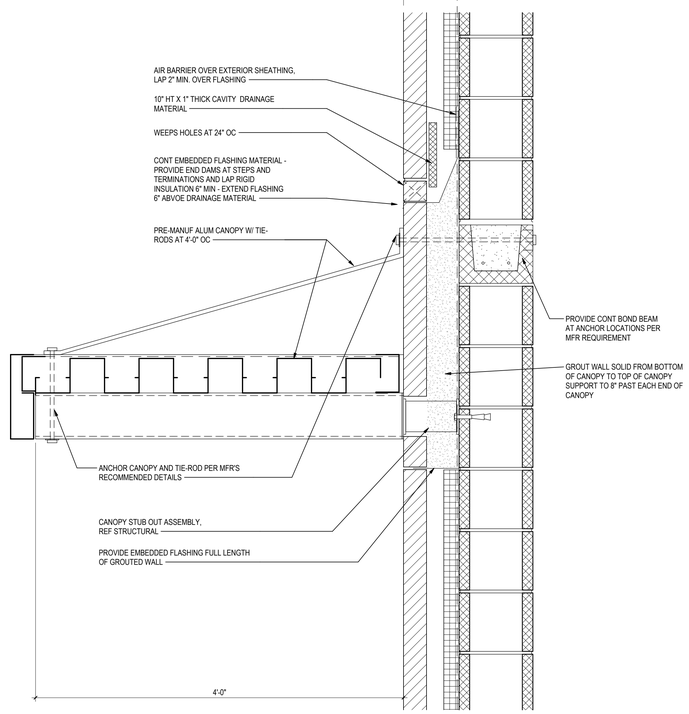


B4 A321 **DETAIL @ AL SF HEAD**
3" = 1'-0"
PES



B1 A321 **DETAIL @ SOFFIT**
1 1/2" = 1'-0"
PES

A1 A321 **DETAIL @ BRICK LEDGE**
1 1/2" = 1'-0"
PES



1 A321 **DETAIL @ WALKWAY COVER**
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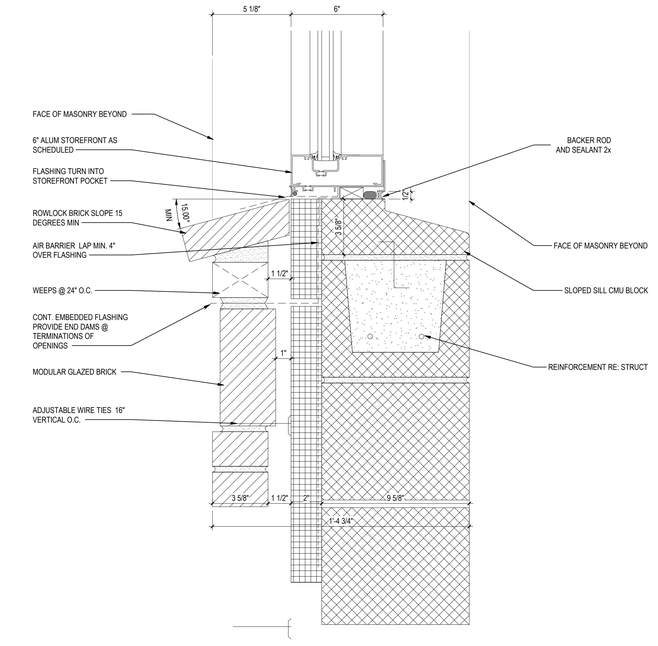
PES



A4 A321 **DETAIL @ AL SF SILL**
3" = 1'-0"
PES

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
EXTERIOR WALL SECTIONS DETAILS

Project No. 214001246
Scale As indicated
Revision
Drawing No.

A321 - PES

ORIGINAL SHEET - ARCH E1
<Plot Location in Project Information>
12/5/2025 8:56:42 AM

GENERAL NOTES - TOILET PLANS:

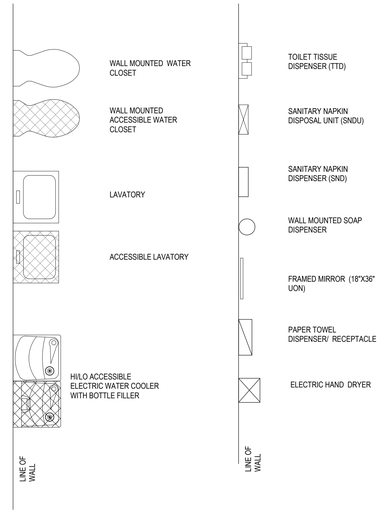
1. REFER TO A007 FOR PARTITION TYPES.
2. REFER TO A100 FOR ADDITIONAL GENERAL PLAN NOTES.
3. ALL TOILET ROOM WALLS TO GO TO DECK UNO.
4. PROVIDE WALL MOUNTED DOOR STOPS IN RESTROOMS.
5. REFER TO A800's FOR INTERIOR FINISHES.
6. PROVIDE 90 DEGREE OUTSIDE CMU CORNERS BEHIND CERAMIC TILE WRAPPING AROUND OUTSIDE CORNERS.
7. TERMINATE CERAMIC TILE 2" SHORT OF CMU BULLNOSE CORNERS WHERE TILE FINISH STOPS AT OUTSIDE CORNERS.
8. EXTEND CERAMIC TILE UP TO AND AROUND MIRRORS ON WALLS WITH CERAMIC TILE WAINSCOT.

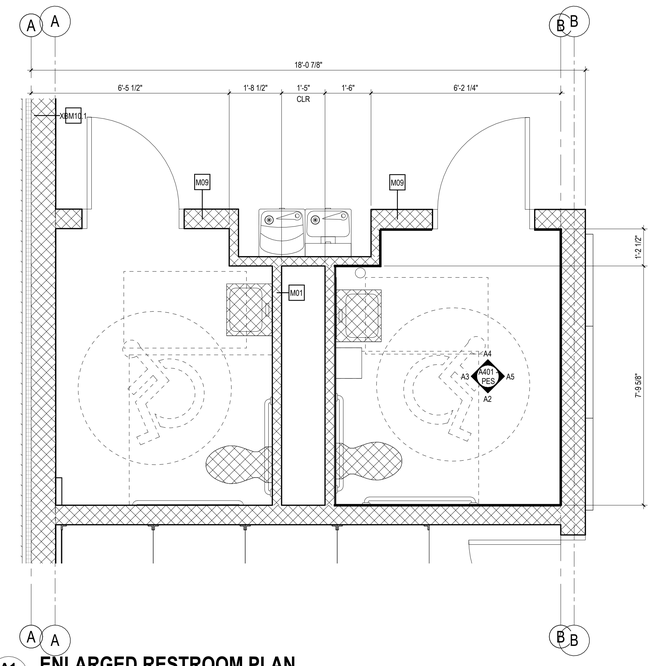
ACCESSORIES:

1. REFER TO SHEET A002 FOR TYPICAL TOILET ROOM ACCESSORIES AND FIXTURE / ACCESSORY MOUNTING HEIGHT INFO.
2. PROVIDE FIXTURES AND ACCESSORIES AT ALL SINGLE ACCESSIBLE TOILET ROOMS AND ALL TOILET STALLS AS INDICATED ON THE 'TYPICAL TOILET ROOM LAYOUTS' ON SHEET A421
3. COORDINATE INSTALLATION OF REQ'D BLOCKING AND STABILIZING FOR FIXTURES.
4. THE STRUCTURAL STRENGTH OF GRAB BARS AT ACCESSIBLE WATER CLOSETS SHALL COMPLY WITH ADATAS 609.8.

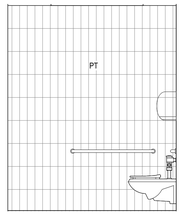
MIRRORS MOUNTED ABOVE SINKS OR CABINETS SHALL BE CENTERED ON FIXTURE. LOCATE THE TOPS OF THESE MIRRORS (MEASURED FROM FLOOR TO TOP MOST EDGE) AT 74" AFF

TOILET ROOM ACCESSORY LEGEND:

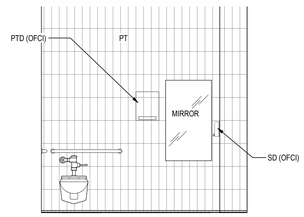




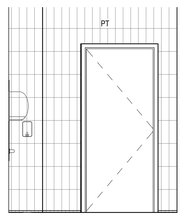
A1 A401 — **ENLARGED RESTROOM PLAN**
1/2" = 1'-0"
PES



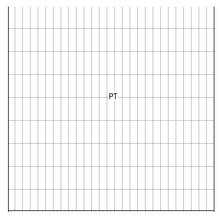
A2 A401 — **INTERIOR ELEVATION**
3/8" = 1'-0"
PES



A3 A401 — **INTERIOR ELEVATION**
3/8" = 1'-0"
PES



A4 A401 — **INTERIOR ELEVATION**
3/8" = 1'-0"
PES



A5 A401 — **INTERIOR ELEVATION**
3/8" = 1'-0"
PES

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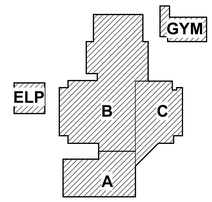

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ENLARGED RESTROOM DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A401 - PES

<Plot location in Project Information>
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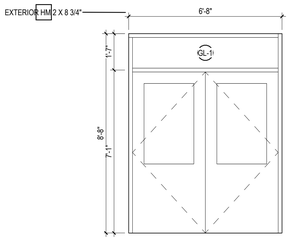
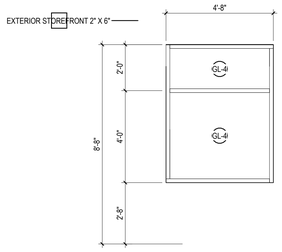


D1 FRAME TYPE A
A501 — 3/8" = 1'-0"
PES



D2 FRAME TYPE B
A501 — 3/8" = 1'-0"
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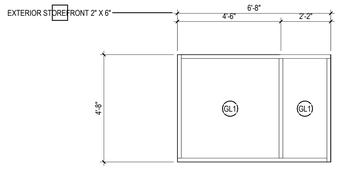

D3 FRAME TYPE C
A501 — 3/8" = 1'-0"
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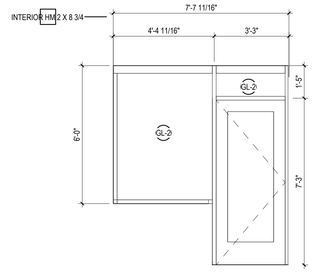
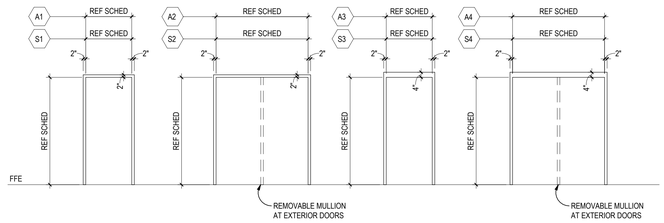
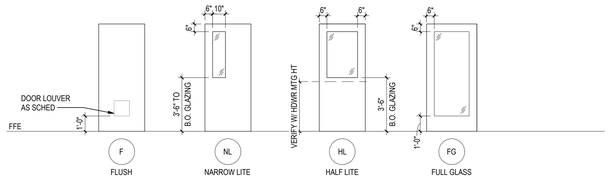


D4 FRAME TYPE iA
A501 — 3/8" = 1'-0"
PES

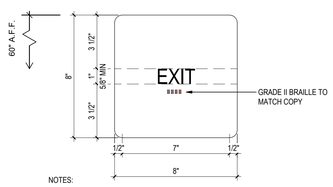


C1 DOOR FRAME TYPES
A501 — 1/4" = 1'-0"
PES



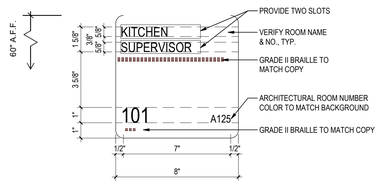
NOTES:
1. PROVIDE INSULATED LAMINATED GLAZING UNITS IN ALL EXTERIOR DOORS, UNO
2. PROVIDE ¼" CLEAR TEMPERED SAFETY GLASS IN ALL INTERIOR DOORS, UNO
3. AT DOORS MARKED AS ACOUSTICAL DOORS, PROVIDE SOUND SEALS FOR AN EQUIVALENT STC 47 DOOR

B1 A041_DOOR TYPES
A501 — 1/4" = 1'-0"
PES

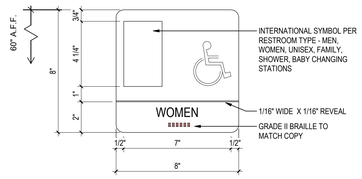


NOTES:
1. INCLUDE LOCATION SUCH AS STAIR NUMBER WHERE APPLICABLE
2. INCLUDE AREA OF REFUGE WHERE APPLICABLE, REFER TO SIGN TYPE E2

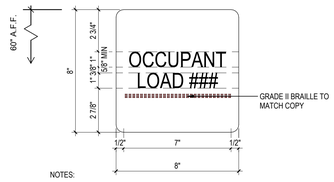
C3 INTERIOR ROOM EXIT SIGN
A501 — 3" = 1'-0"
PES



B3 TYPICAL ROOM SIGN
A501 — 3" = 1'-0"
PES



C4 RESTROOM SIGN
A501 — 3" = 1'-0"
PES



NOTES:
1. PROVIDE SIGN AT EACH EXIT POINT.
2. COORDINATE ON SITE TO COMPLY WITH THE REQUIREMENTS

B4 OCCUPANT LOAD SIGN
A501 — 3" = 1'-0"
PES

GLAZING LEGEND

GL-1 - 1 5/16" INSULATED LAMINATED GLAZING

GL-2 - 9/16" LAMINATED GLAZING

GL-3 - 1/4" CLEAR TEMPERED GLAZING

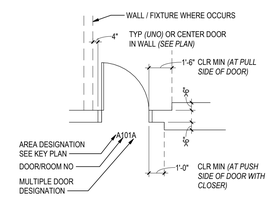
GL-4 5/8" FIRE RATED LAMINATED INSULATED GLAZING UNIT

GL-5 1-3/4" 45 MIN INSULATED LAMINATED GLAZING

GENERAL NOTES - DOORS AND WINDOWS:

1. REFER TO SHEET A501 FOR DOOR SCHEDULE.
2. REFER TO SHEET A006 AND A005 FOR LINTEL SCHEDULES AND DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE.
3. ALL INTERIOR DOORS TO BE 1 ¾" THICK *(UNO)*. EXTERIOR STOREFRONT DOORS SHALL BE 2" THICK, THERMALLY BROKEN. EXTERIOR HOLLOW METAL DOORS TO BE 1 ¾" THICK, INSULATED WITH THERMALLY BROKEN FRAMES
4. ALL STL FRAMES TO HAVE A 2" FACE DIMENSION UNO, W/ ½" STOP. ¾" STOP REQUIRED FOR FIRE RATED FRAMES.
5. STEEL FRAME DEPTHS INDICATED IN THE DETAILS ARE NOMINAL. PROVIDE STANDARD WIDTH FRAME WITH THROAT OPENING APPROPRIATE TO PARTITION TYPE.
6. COORDINATE WITH MECH DOCUMENTS FOR DOOR UNDERCUTS AND DOOR LOUVERS, IF ANY.
7. ALL LITES IN DOORS TO HAVE INSULATED LAMINATED GLAZING *(UNO)*.
8. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATING FRAMES.
9. PROVIDE WD BLKG IN GYP BD WALLS BEHIND DOORS SCHEDULED TO HAVE WALL MOUNTED DOOR STOPS. *(REFER HARDWARE SCHEDULE SUBMITTAL)*.
10. REFER DTLS A1/A006 FOR TYP WINDOW AND DOOR CONTROL JOINTS IN MASONRY WALLS. REFER DTLS A2/A006 FOR TYP WINDOW AND DOOR CONTROL JOINTS IN STEEL STUD FRAMED WALLS.
11. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR.
12. PROVIDE WATER RESISTANT TREATED WOOD BLOCKING AT WINDOW SURROUND MEMBERS AS REQUIRED FOR PROPER ATTACHMENT WHERE ALUMINUM WINDOWS ARE TO BE INSTALLED.
13. AT ALL EXISTING STL FRAMES WHERE DOOR SWING IS TO BE CHANGED, PATCH, REPAIR AND GRIND SMOOTH EXISTING STL DOOR FRAME. PRIME AND USE ONLY IF FRAME IS TO BE RETAINED. PAINT ACCORDING TO FINISH SCHEDULE SHEET A801.
14. DOOR HARDWARE *(CLOSERS, LEVERS, PANIC HARDWARE, ETC.)* SHALL NOT CONFLICT WITH THE GLASS OR TRIM FOR THE LITE.

DOOR MARK KEY



DOOR SCHEDULE REMARKS:

1. PROVIDE REMOVABLE MULLION.
2. REFER TO ELECTRICAL DOCUMENTS FOR POWER FOR CARD KEY ACCESS. AT DOUBLE DOORS PROVIDE ELECTRIC STRIKE AT REMOVABLE MULLION.
3. PROVIDE DRIP AT HEAD OF DOOR
4. MANUAL OPERATED, TYPICAL.
5. MOTOR OPERATED, TYPICAL. REFER TO MEP DOC.
6. PREMANUFACTURED DOOR AND FRAME ASSEMBLY. PROVIDE PLAM FACING COLOR AS SCHEDULED ON SHEET A601. REFER TO ELECTRICAL DOCUMENTS FOR HOLD-OPEN DEVICES.
7. PROVIDE 2" WIDE ADA COMPLIANT MARBLE THRESHOLD WITH CHAMFERED EDGES AT ENTRY DOOR.
8. FIELD VERIFY ROUGH OPENING PRIOR TO DOOR FABRICATION.

DOOR SCHEDULE-BY NUMBER

NO.	ROOM NAME	ROOM NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR TYPE	DOOR MAT'L	DOOR FIN	DOOR GLAZ	FRAME Frame Type	FRAME MAT'L	FRAME FIN	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE LABEL	HDWR SET	SEC SET	DOOR COMMENTS
Level 1																			
P100A			6'-4"	7'-0"	1 3/4"	HL	STL	PNT		RE; FRAME ELEV	STL	PNT				45 MIN			1,2,3
P100B			6'-4"	7'-0"	1 3/4"	HL	STL	PNT		RE; FRAME ELEV	STL	PNT				45 MIN			1,2,3
P101	OUTDOOR STOR	P101	3'-0"	7'-2"	1 3/4"	F	STL	PNT		S1	STL	PNT				45 MIN			3
P102	OFFICE	P102	3'-0"	7'-2"	1 3/4"	FL	STL	PLAM		RE: ELEV	STL	PNT	C2/A502-PES	B1/A502-PES	A1/A502-PES				
P103	GYMNASIUM	P100	3'-0"	7'-2"	1 3/4"	F	STL	PLAM		S1	STL	PNT	C1/A502-PES	B1/A502-PES	A1/A502-PES				2
P104	HALLWAY	P107	3'-0"	7'-2"	1 3/4"	F	STL	PLAM		S1	STL	PNT	C1/A502-PES	B1/A502-PES	A1/A502-PES				7
P105	HALLWAY	P107	3'-0"	7'-2"	1 3/4"	F	STL	PLAM		S1	STL	PNT	C1/A502-PES	B1/A502-PES	A1-A502-PES				7
P108			4'-0"	8'-0"			STL												GATE
P109	PE STOR	P103	3'-0"	7'-2"	1 3/4"	F	STL	PLAM		S1	STL	PNT	C1/A502-PES	B1/A502-PES	A1/A502-PES				2
P113			26'-0"	8'-0"			STL												GATE

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DINH — 28296 — STATE OF TEXAS

Client/Project Logo

2023 BOND — FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
DOOR SCHEDULE, INFO, AND FRAME TYPES

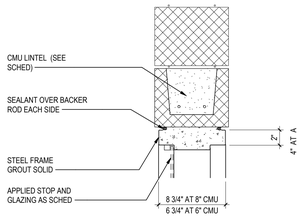
Project No.	Scale
214001246	As indicated

Revision — Drawing No.

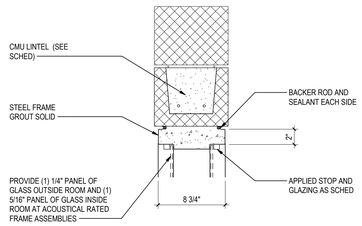
A501 - PES

ORIGINAL SHEET - ARCH E1

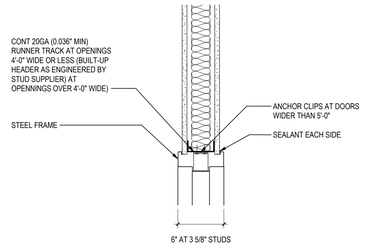
Plot location in Project Information
9/25/2025 4:06:37 AM



C1 A502 HM HEAD @ CMU
1 1/2" = 1'-0"
PES



C2 A502 HM HEAD @ CMU ACOUSTIC
1 1/2" = 1'-0"
PES



C3 A502 HM HEAD @ GYP
1 1/2" = 1'-0"
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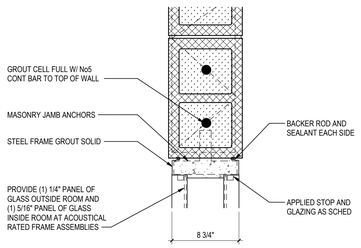

B1 A502 HM JAMB @ CMU
1 1/2" = 1'-0"
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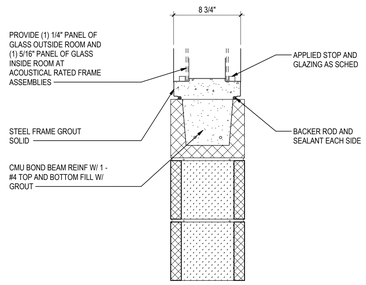
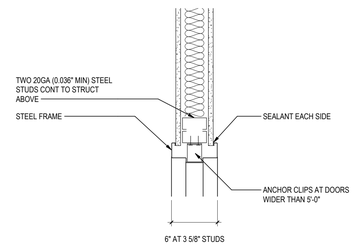


B2 A502 HM SILL @ CMU
1 1/2" = 1'-0"
PES



B3 A502 HM JAMB @ GYP
1 1/2" = 1'-0"
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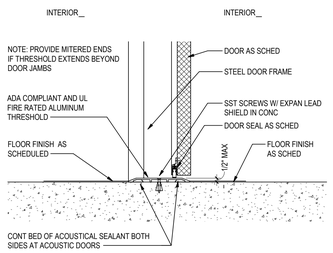

A1 A502 SILL @ HM DOORS
1 1/2" = 1'-0"
PES

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
INTERIOR HEAD, JAMB, SILL DETAILS

Project No.	Scale
214001246	1 1/2" = 1'-0"
Revision	Drawing No.
	A502 - PES

*Plot location in Project Information
1/20/2025 6:07:04 AM
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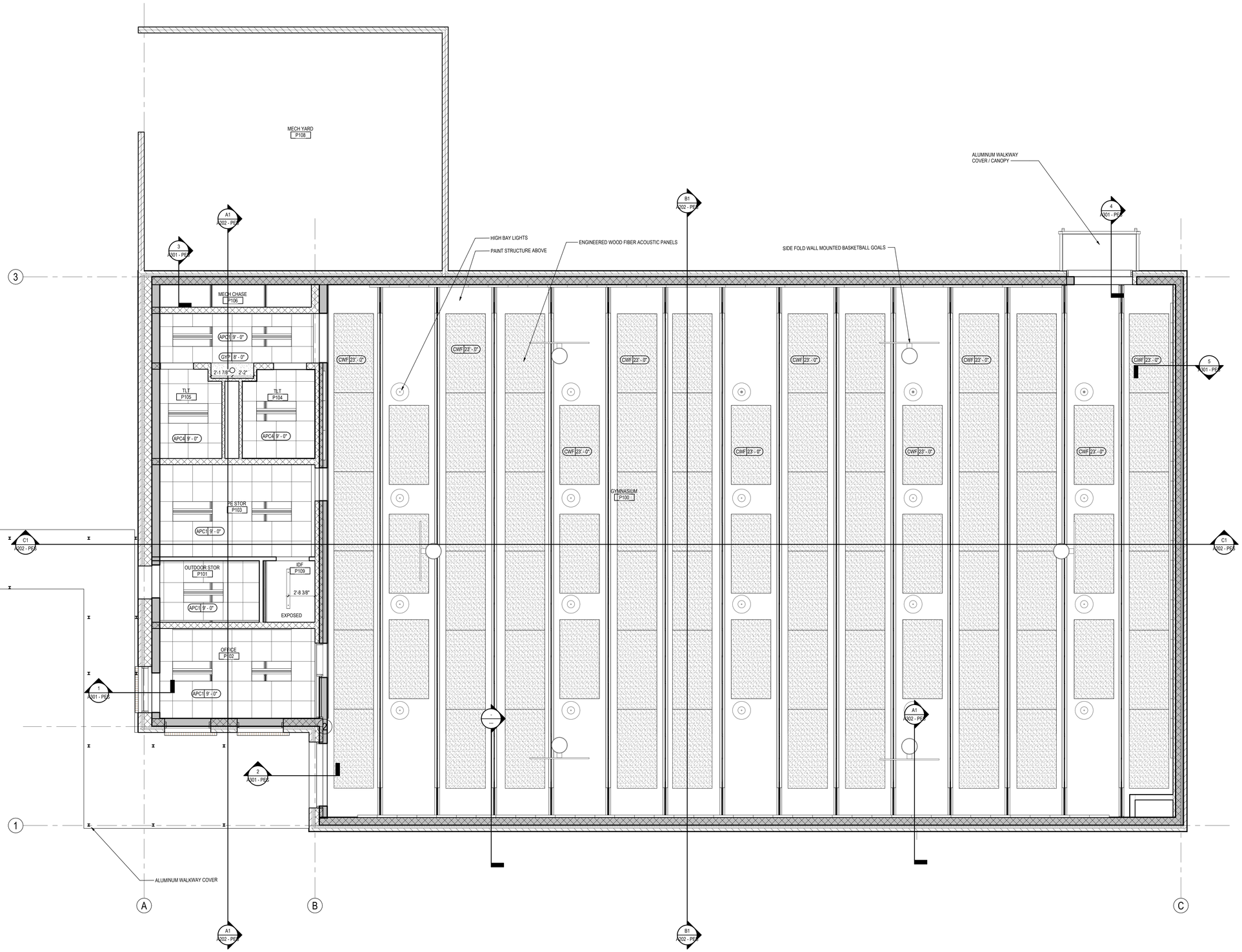

A1 A601
PES

REFLECTED CEILING PLAN - GYMNASIUM

1/4" = 1'-0"

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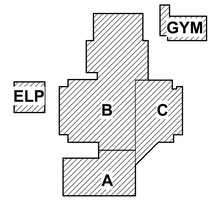

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
REFLECTED CEILING PLAN - GYMNASIUM

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A601 - PES

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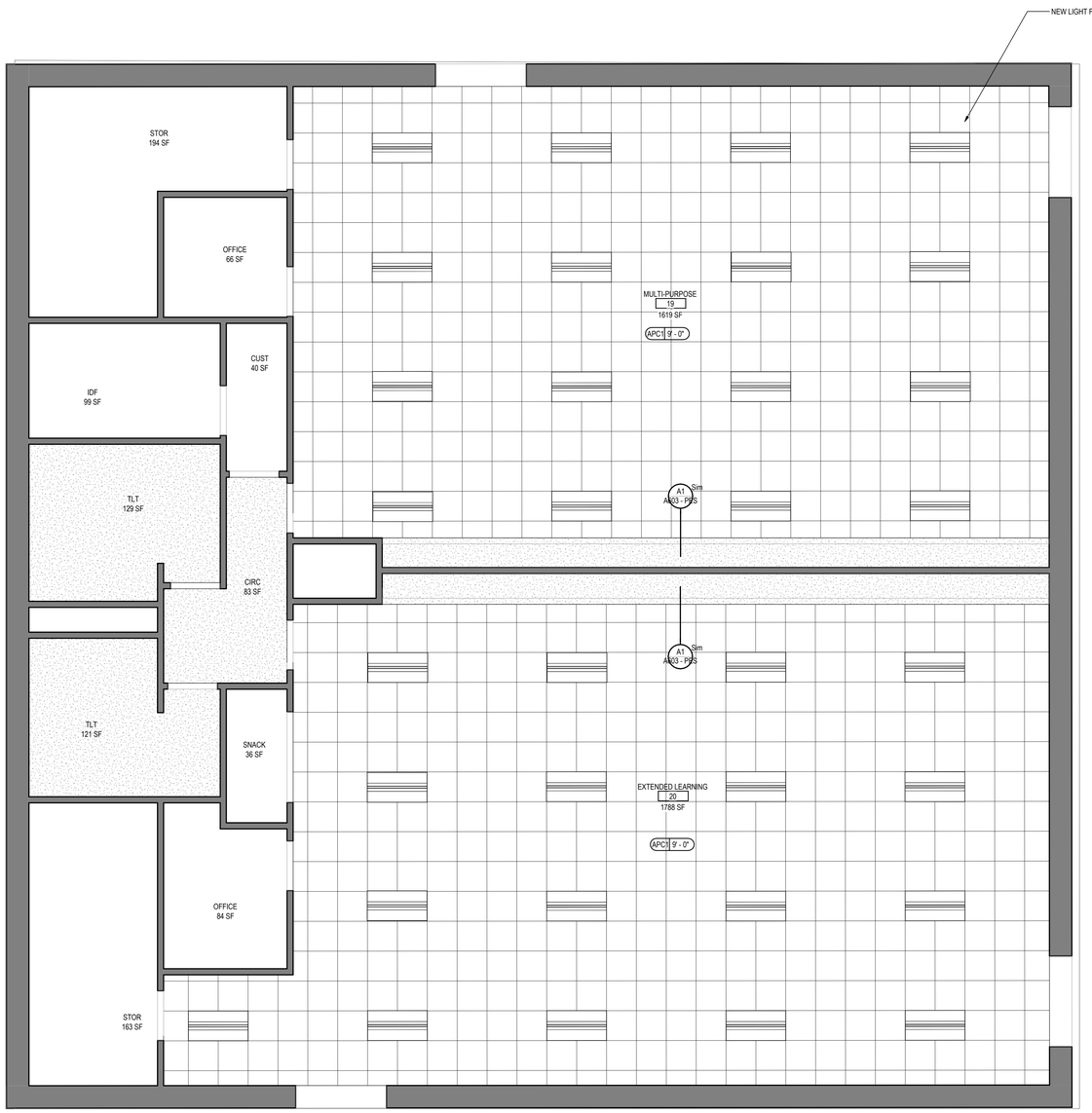

A1 / A602 — **CEILING PLAN - ELP**

1/4" = 1'-0"

PES

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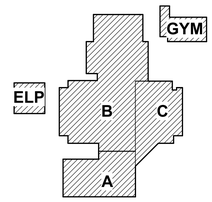

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

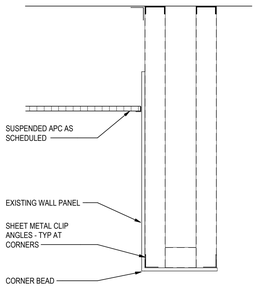
Title

REFLECTED CEILING PLAN - ELP

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A602 - PES

ORIGINAL SHEET - ARCH E1



A1 / A603 **NEW CEILING AT EXISTING BUILDING**

1" = 1'-0"

PES

ORIGINAL SHEET - ARCH E1

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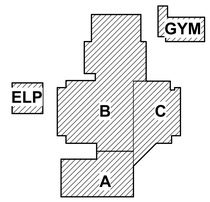

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title

CEILING DETAILS

Project No.	Scale
214001246	1" = 1'-0"
Revision	Drawing No.

A603 - PES

<Plot location in Project Information>
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Interior Material Schedule - AIA Materials Pledge

TYPE MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COMMENTS	CERTIFICATIONS	AIA MATERIALS PLEDGE				
						Human Health	Social Health & Equity	Ecosystem Health	Climate Health	Circular Economy
APC - 1	ACOUSTIC PANEL CEILING	ARMSTRONG	SCHOOL ZONE FINE FISSURED		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
APC-4	ACOUSTIC PANEL CEILING	ARMSTRONG	CLEAN ROOM VL NO. 870	RESTROOMS	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
AWP	ACOUSTIC WALL PANEL	ARMSTRONG	ACOUSTIC WALL PANELS	REPLACEMENT FABRIC/PANELS FOR DAMAGED PANEL IN EXISTING ELP	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CG-1	CORNER GUARD	KOROGUARD	SNAP ON PVC	CORNER GUARD	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CPT - 1	CARPET	TARKETT	POWERBOND BROADLOOM		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CWF - 1	CEMENTITIOUS WOOD FIBER PANEL CEILING	ARMSTRONG	TECTUM PANELS		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
HLB -1	HORIZONTAL LOUVER BLIND			HORIZONTAL LOUVER BLIND	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
LVT - 1	VINYL TILE FLOORING	MOHAWK	connectD 5.0 C2116		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
MT	METAL TRIM	SCHLUTER - AHK	METAL TRIM FOR PORCELAIN TILE WALL TO FLOOR TRANSITION		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
MT 2	METAL TRIM	SCHLUTER - JOLLY	METAL TRIM FOR PORCELAIN WAINSCOT TOP		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 1	PAINT	SHERWIN WILLIAMS		CORRIDOR WALLS WITH VINYL WALL COVERING	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 2	PAINT	SHERWIN WILLIAMS		FIELD EPOXY PAINT AT CMU WALLS	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 3	PAINT	SHERWIN WILLIAMS		FIELD PAINT AT INTERIOR WALLS EXISTING	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 4	PAINT	SHERWIN WILLIAMS		ACCENT PAINT	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PT-1	PORCELAIN TILE	DALTILE	PORTFOLIO - 6 X 24	WAINSCOT	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PT-2	PORCELAIN TILE	DALTILE	PORTFOLIO - 12 X 24	WAINSCOT	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PT-3	PORCELAIN TILE	DALTILE	PORTFOLIO - 2 X 2	RESTROOM FLOOR	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RAF - 1	RESILIENT ATHLETIC FLOORING	TARKETT	OMNISPORTS MULTI-USE 6.2 MM - GOLDEN MAPLE	GOLDEN MAPLE	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RB - 1	RUBBER BASE	JOHNSONITE	6"	NEW 6" RUBBER BASE TO COVER DAMAGED WALL VINYL WHEN REMOVING OLD RUBBER BASE	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RB - 2	RUBBER BASE	JOHNSONITE	4"	NEW 4" RUBBER BASE AT CMU WALLS	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
SC-1	SEALED CONCRETE			SEALED CONCRETE	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
VWC - 1	VINYL WALL COVERING	KOROSEAL	BUECHEL		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
WP -1	PROTECTIVE WALL PADDING	PORTER	90350-326	PROTECTIVE WALL PADDING	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•

FINISH SCHEDULE-ROOM DATA

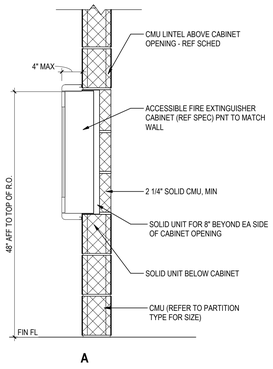
NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
P100	GYMNASIUM	RAF	RB-2	PNT-2	EXPOSED	
P101	OUTDOOR STOR	SL CONC	RB-2	PNT-2	APC-1	
P102	OFFICE	LVT-1	RB-2	PNT-2	APC-1	
P103	PE STOR	SL CONC	RB-2	PNT-2	APC-1	
P104	TLT	PT-3	PT	PT	GYP	
P105	TLT	PT-3	PT	PT	GYP	
P106	MECH CHASE	SL CONC	N/A	PNT	EXPOSED	
P107	HALLWAY	PT	PT	PT/PNT	APC-1	
P108	MECH YARD	N/A	N/A	N/A	N/A	
P109	IDF	SL CONC	RB-2	PNT/PLYWD	EXPOSED	

GENERAL NOTES - INTERIOR FINISH AND COLOR SCHEDULE:

1. MANUFACTURERS NAMES AND IDENTIFICATION NUMBERS ARE LISTED AS A MEANS OF ESTABLISHING A STANDARD OF TYPE, FUNCTION, COLOR, AND QUALITY. REFER TO PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS & PROCEDURES.
2. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SAMPLE OF ALL FINISH MATERIALS FOR APPROVAL BEFORE MATERIALS ARE APPLIED ON THE JOB.
3. VERIFY ALL GRAPHICS WITH THE ARCHITECT BEFORE PAINTING. GRAPHICS MAY NEED TO BE ADJUSTED AFTER ENLARGING TO REFLECT THE SAME COMPOSITION AS ON THE DRAWINGS.
4. IF REQUESTED THE ARCHITECT WILL PROVIDE 8 1/2" X 11" CLEAR ACETATE OR MYLAR OF DETAILED MURAL GRAPHICS FOR PROJECTION ON WALL.
5. TERMINATE ALL ACCENT PAINTS & VINYL WALL COVERING ON INSIDE CORNERS ONLY UNLESS OTHERWISE INDICATED.
6. PAINT ALL INTERIOR & EXTERIOR EXPOSED PIPING. VERIFY COLOR W/ ARCHITECT.
7. PAINT ANY VENTS, GRILLES, PIPING, FEC, ETC... SAME COLOR AS ADJACENT WALL.

XX1 - COLORS WILL BE MARKED AS SHOWN. NOTE ALL COLORS MAY NOT BE MARKED ON PLANS. MATERIALS NOT NOTED WILL BE COVERED UNDER GENERAL NOTES OR WILL BE PICKED ON THE JOB BY THE ARCHITECT.

8. ALL CARPET SHALL BE MARK "CPT-1"
9. UNDESIGNATED PAINTED GYPSUM BOARD WALLS TO BE FIELD PAINT "PNT-1".
10. UNDESIGNATED PAINTED CMU WALLS TO BE MARK EPOXY FIELD PAINT "PNT-2".
11. ALL INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED TO MATCH ACCENT PAINT "PNT-3" (U.O.N.). ALL VISION PANEL FRAMES IN INTERIOR DOORS TO MATCH ACCENT PAINT "PNT-3".
12. ALL MISC. CASE WORK SHALL BE MARK "PL-1".
13. ALL WALLS SCHEDULED IN RESTROOMS TO RECEIVE PORCELAIN TILE :
14. FLOOR TILE IN ALL BOYS, GIRLS, AND TLT ROOMS SHALL BE PORCELAIN
15. ALL EXPOSED STRUCTURAL STEEL INCLUDING ROOF DECK, JOISTS, GIRDERS, BEAMS AND ANY MISC. STEEL SHALL BE PAINTED MARK "PNT-1". DUCTS, DIFFUSERS AND AIR HANDLING UNITS SHALL BE GALVANIZED METAL.
16. REFER TO DRAWING A901 FOR GAME LINES, COLORS, SIZE AND LOCATION.
17. LOW PROFILE TRANSITION STRIPS TO BE PLACED AT ANY FLOORING MATERIAL CHANGE.
18. METAL LOW PROFILE TRANSITION STRIPS TO BE PLACED AT ANY FLOORING MATERIAL CHANGE ADJACENT TO PT.
19. REFER TO FINISH SCHEDULE FOR PT-1 GROUT TYPE IN ALL BATHROOM
20. CERAMIC WALL/FLOOR TILE GROUT SHALL BE GT-1.
21. SEAL ALL EXPOSED JOINTS BETWEEN DISSIMILAR MATERIALS INCLUDING, BUT NOT LIMITED TO: BETWEEN WALLS AND CASEWORK/ MILLWORK, WINDOW SILLS, BACKSPLASHES, PLUMBING FIXTURES, FIRE EXTINGUISHER CABINETS; WINDOW SILLS TO WINDOW FRAMES; RESILIENT FLOORING TO STAIR STRINGERS AND RISERS; BACKSPLASHES TO COUNTER TOPS; ETC. VERIFY SEALANT TYPE AND COLOR FOR EACH APPLICATION WITH ARCHITECT PRIOR TO INSTALLATION.



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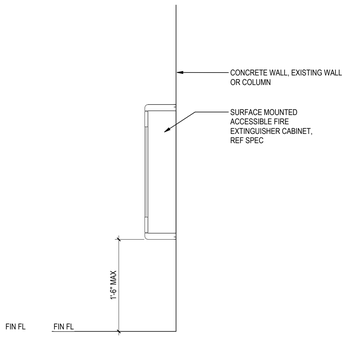

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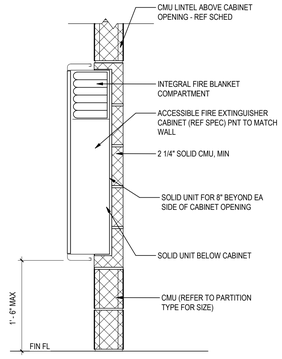

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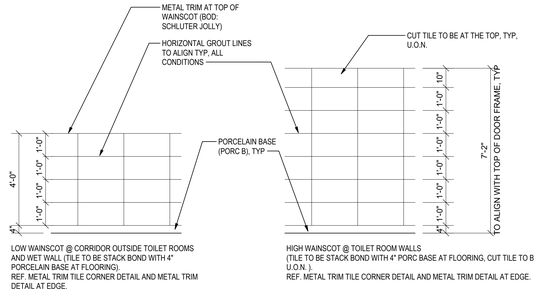
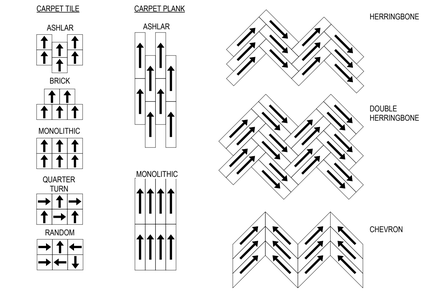


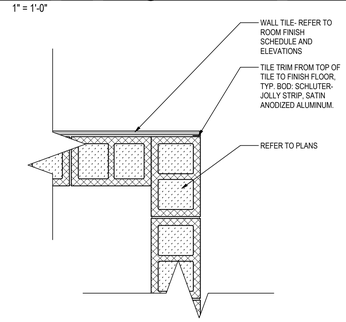
LOW WAINSCOT @ CORRIDOR OUTSIDE TOILET ROOMS AND WET WALL (TILE TO BE STACK BOND WITH 4" PORCELAIN BASE AT FLOORING).
REF. METAL TRIM TILE CORNER DETAIL AND METAL TRIM DETAIL AT EDGE.

HIGH WAINSCOT @ TOILET ROOM WALLS
(TILE TO BE STACK BOND WITH 4" PORC BASE AT FLOORING, CUT TILE TO BE AT TOP TYP, U.O.N.).
REF. METAL TRIM TILE CORNER DETAIL AND METAL TRIM DETAIL AT EDGE.

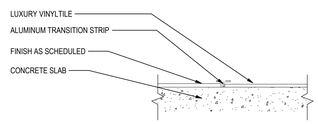
C3 A801 — ENLARGED WALL TILE ELEVATION- STACKED BOND INSTALLATION
3/8" = 1'-0"
PES



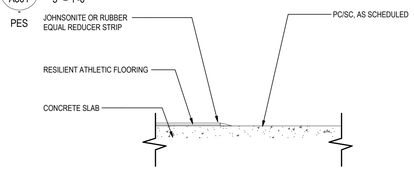
3 A601 — INSTALLATION PATTERN LEGEND
12" = 1'-0"
PES



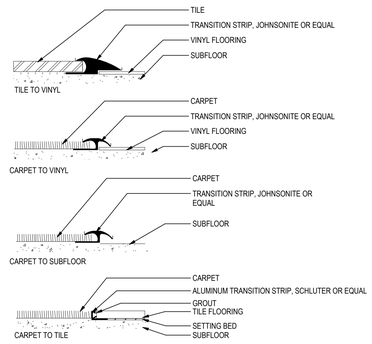
C1 A801 — A701_Fire_Extinguisher Cabinet_DETAILS
1" = 1'-0"
PES

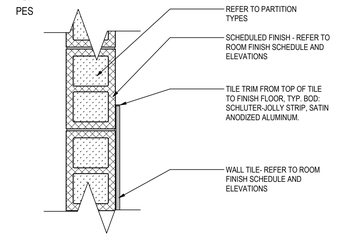


C2 A801 — TRANSITION DETAIL RAF TO LVT
3" = 1'-0"
PES

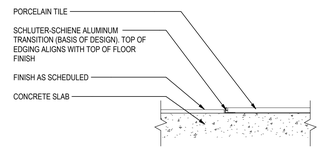


B2 A801 — FLOOR TRANSITION REDUCER TO SUBFLOOR
1 1/2" = 1'-0"
PES

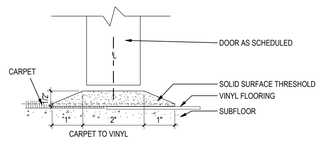




B1 A801 — TILE CORNER DETAIL
1" = 1'-0"
PES



A2 A801 — FLOOR TRANSITION DETAIL RAF TO PT
3" = 1'-0"
PES



A3 A801 — CARPET TRANSITION DETAILS
6" = 1'-0"
PES

GENERAL NOTES - FURNISHING AND EQUIPMENT:

1. MODEL NUMBERS/MFR'S ARE LISTED ON CASEWORK ELEVATIONS SO THAT A MINIMUM DESIGN BASIS MAY BE ESTABLISHED. THE DIMENSIONS SHOWN (WXHXD) MAY DIFFER FROM THE SELECTED MFR'S STANDARD DIMENSIONS FOR THE LISTED MODEL NUMBERS.
2. PROVIDE SIDE, TOP, AND BOTTOM FILLER PIECES AS REQ'D TO COMPLETE CASEWORK INDICATED ON PLANS.
3. ALL FLOOR MOUNTED FIXTURES ARE TO HAVE THE SAME FINISH FACE MATERIAL AS THE ROOM IN WHICH THEY ARE LOCATED.
4. BLIND CABINETS, AT CORNERS, ARE TO BE LEFT OR RIGHT HAND AS REQ'D PER PLAN.
5. ALL CABINETS TO HAVE PLASTIC LAMINATE THROUGHOUT, INCLUDING ALL EXPOSED SUFACES INSIDE AND OUT.
6. PROVIDE PLASTIC LAMINATE FINISHED END PANELS AT EXPOSED CABINET ENDS INCLUDING KNEESPACES (TYP).
7. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF ANY FIXTURES.
8. BOOKCASES AND SHELVES TO HAVE FRONT FACING SURFACE OF BACK PANEL TO WATCH FINISH OF REMAINDER OF BOOKCASE.
9. COUNTERTOPS TO HAVE PLASTIC LAMINATE SURFACE W/ 4" HIGH BACKSPLASH TYP, UON.
10. PROVIDE KEYED LOCKS AT CABINET DOORS AND DRAWERS, WHERE INDICATED.
11. PROVIDE MFR'S STANDARD PENCIL DRAWER INSERT AT KNEESPACE UNITS W/ STANDARD DRAWERS (NOT KEYBOARD DRAWERS (UON).
12. PROVIDE CORNER GUARDS FROM TOP OF BASE TO TOP OF DOOR FRAME: PROVIDE FIRE RATED CORNER GUARD AT RATED WALLS (MODEL NUMBERS ARE NON RATED) MFR'S BY IN-PRO CORP, (DESIGN BASIS).
    - SURFACE STYLE:
      STAINLESS STEEL:
      ALL OUTSIDE CORNERS OF GYPSUM BOARD CONST- 2X2X16 GA (TYPE 304) (SURFACE)
      VINYL - TYPE 150BN 2X2 (SURFACE)
13. SHELVES SHALL BE ADJUSTABLE (UON). SHELVES OVER 36" IN LENGTH SHALL BE 1" THICK.
14. PROVIDE 4' -0" TALL TACKBOARDS, AND MARKERBOARDS (UON). BOARDS SHALL BE IN THE SAME FRAME WHEN ADJACENT.
15. MKBDS, AND TKBDS TO HAVE CONT TACKSTRIPS AND PEN TROUGHS (UON). TACKSTRIPS TO HAVE MAP HOOKS (UON).
16. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL INTERIOR WINDOWS (UON).
17. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL EXTERIOR WINDOWS, EXCEPT WINDOWS SHARING A FRAME WITH A DOOR (UON).

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
INTERIOR MATERIAL SCHEDULE

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A801 - PES

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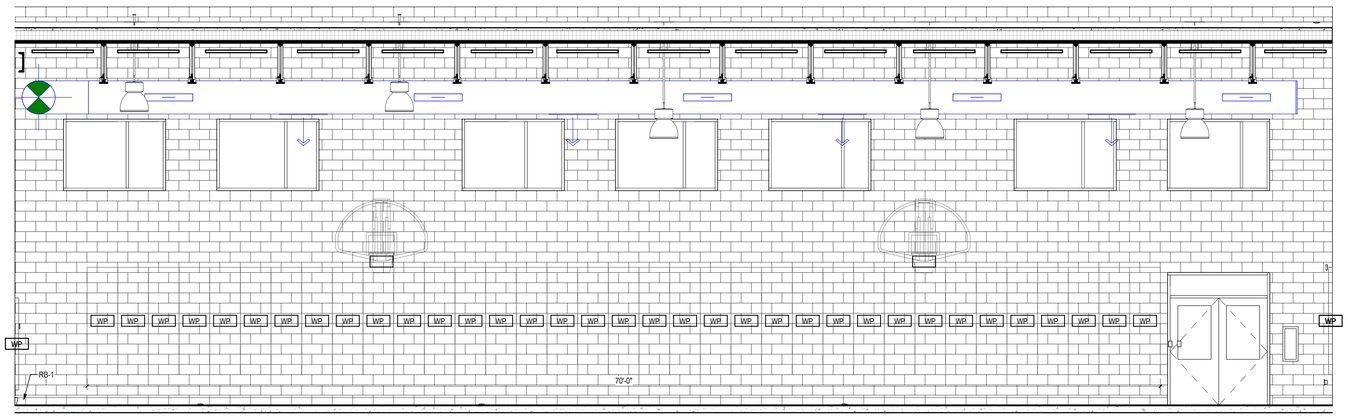
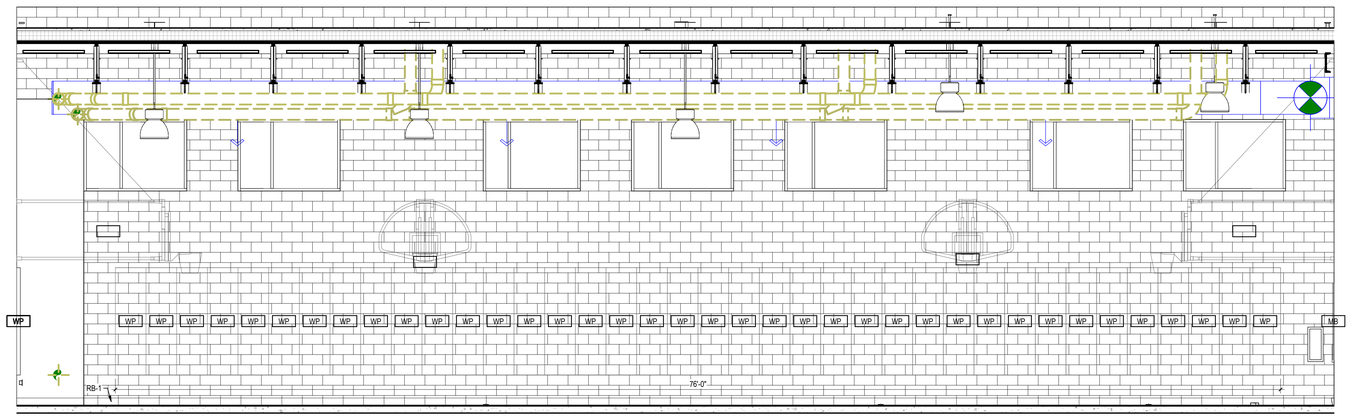
ORIGINAL SHEET - ARCH E1



4 A821 PES

INTERIOR ELEVATION

1/4" = 1'-0"



2 A821 PES

INTERIOR ELEVATION

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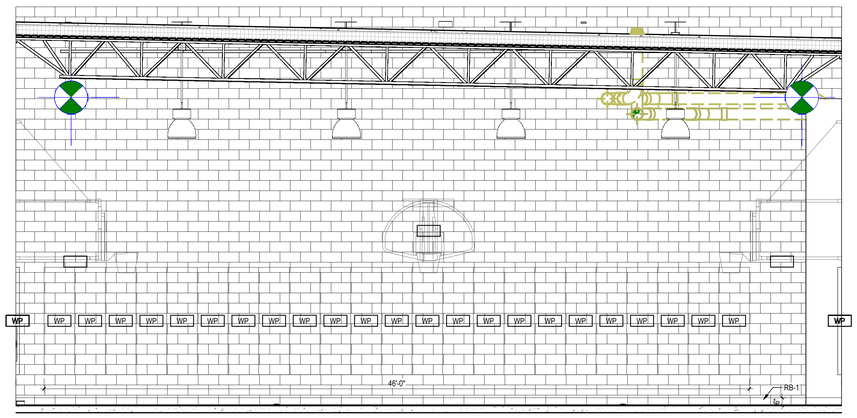
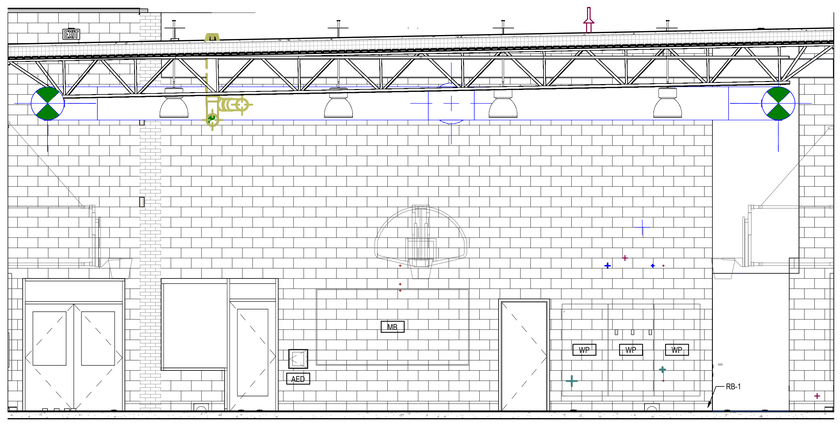


1 A821 PES

INTERIOR ELEVATION

1/4" = 1'-0"



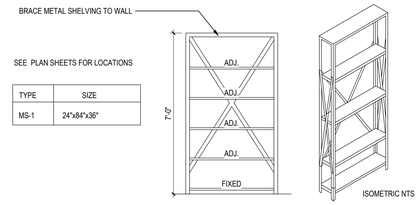
3 A821 PES

INTERIOR ELEVATION

1/4" = 1'-0"

GENERAL NOTES - ROOM FINISHES:

1. (#) IN REMARKS COLUMN OF ROOM FINISH SCHEDULE REFERENCES THE SPECIFIC ROOM FINISH SCHEDULE REMARKS.
2. COORDINATE INTERIOR FINISHES WITH PARTITION TYPES.
3. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR (UON)
4. PAINT EXPOSED JOISTS, DECK, & ALL MISC. ITEMS, TYP. REFER TO GENERAL FINISH SCHEDULE NOTES ON A801
5. REFER TO LIGHTING PLANS & REFLECTED CEILING PLAN SHEETS FOR ACP TYPE/HEIGHT, CEILING GRID LAYOUT & BULKHEAD LOCATIONS (U.O.N.). REFER MEP DOCS.
6. PROVIDE CJ's AT GYP. BD. CEILINGS AT 50'-0"OC MAX. (U.O) PROVIDE CJ's AT WALLS/BLKHDS AT 30'-0"OC MAX. (U.O.N.)
7. ALL SUSPENDED GYP. BD. TO BE PAINTED. REFER REFLECTED CEILING PLANS AND GENERAL FINISH SCHEDULE NOTES ON A601.
8. SEE FLOOR PATTERN PLANS FOR EXTENTS AND TYPE OF FLOORING FINISHES
9. ALL CMU TO BE PAINTED. REFER GENERAL FINISH SCHEDULE NOTES ON A801
10. PROVIDE ADA COMPLIANT MARBLE THRESHOLD 2" WIDE W/ CHAMFERED EDGES AT ENTRY DOOR OR FLOORING TRANSITION AT RESTROOMS AND TOILETS.
11. BLOCK FILL AND PAINT ALL WALLS TO DECK AND BEHIND ACOUSTICAL WALL PANELS, TYP.
12. AT IDF ROOMS CONTINUOUS PTD 1/2" PLYWOOD OVER SCHEDULED PARTITION TYPE, FROM CEILING DOWN 8' ALL AROUND ROOM.



C5 A821 PES

METAL SHELVING

3/8" = 1'-0"

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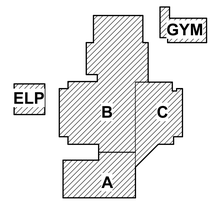


KEY PLAN

PROJECT NORTH

Revision | By | Appd | YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT | By | Appd | 2025.09.24
Issued | YYYY.MM.DD

File Name: N/A | Author Dwn. | Designer Dsgn. | Checker Chkd. | 12/07/24 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

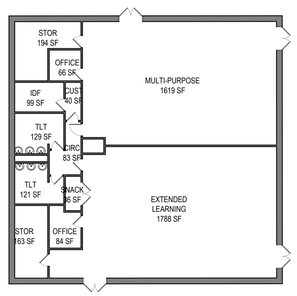
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

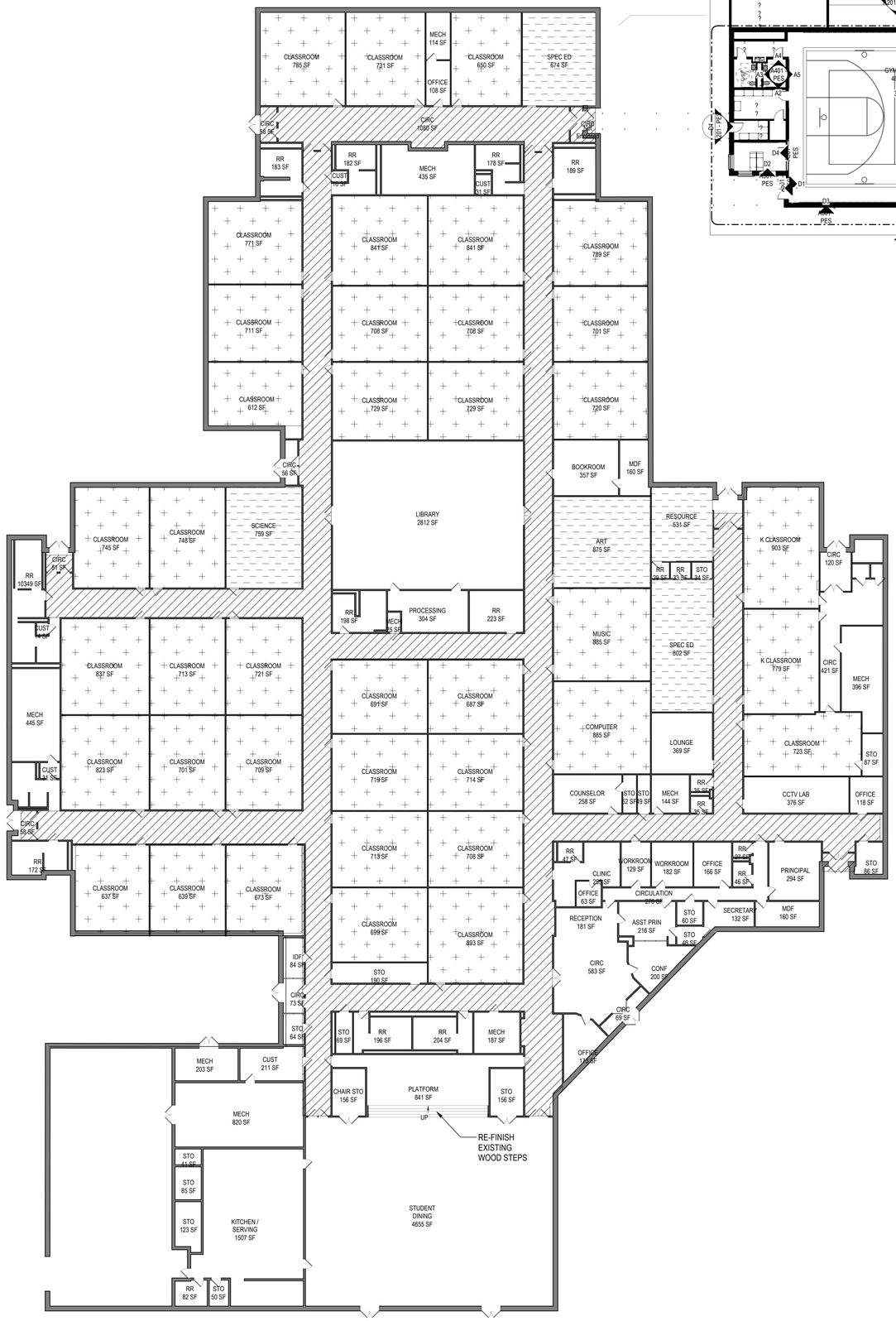
Title
INTERIOR ELEVATIONS - GYMNASIUM

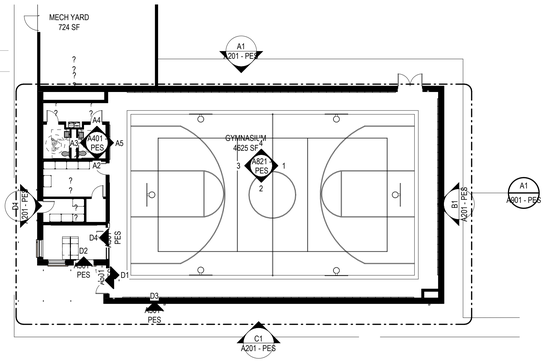
Project No. 214001246 | Scale As indicated
Revision | Drawing No.

A821 - PES

ORIGINAL SHEET - ARCH E1







LEGEND

NEW CARPET
INSTALL NEW 4" RUBBER BASE

PAINT WALLS THIS AREA.
DO NOT PAINT OVER MURALS

NEW RESILIENT VINYL
FLOORING AND 4" BASE.

GENERAL NOTES

1. PAINT INTERIOR SURFACES AND MISCELLANEOUS EXTERIOR SURFACES. REPAIR/PATCH WALLS PRIOR TO PAINTING.

2. DO NOT PAINT OVER MURALS, PROTECT THE BLUE STRIPING AND PAINTED WORDS

A1 / A900 / PES

FINISH PLAN - CARPET AND PAINT

1/16" = 1'-0"

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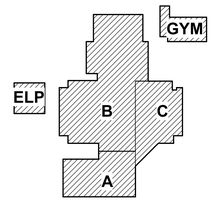

KEY PLAN

PROJECT NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project Logo

2020 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

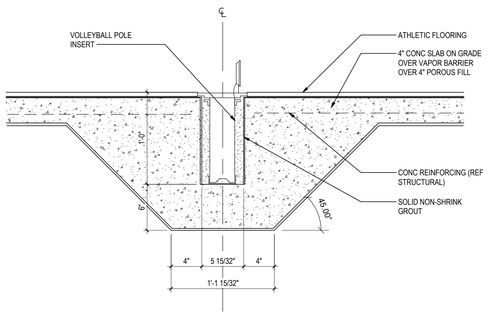
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
FINISH FLOOR PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A900 - PES

ORIGINAL SHEET - ARCH E1



D1 VOLLEYBALL POLE INSERT

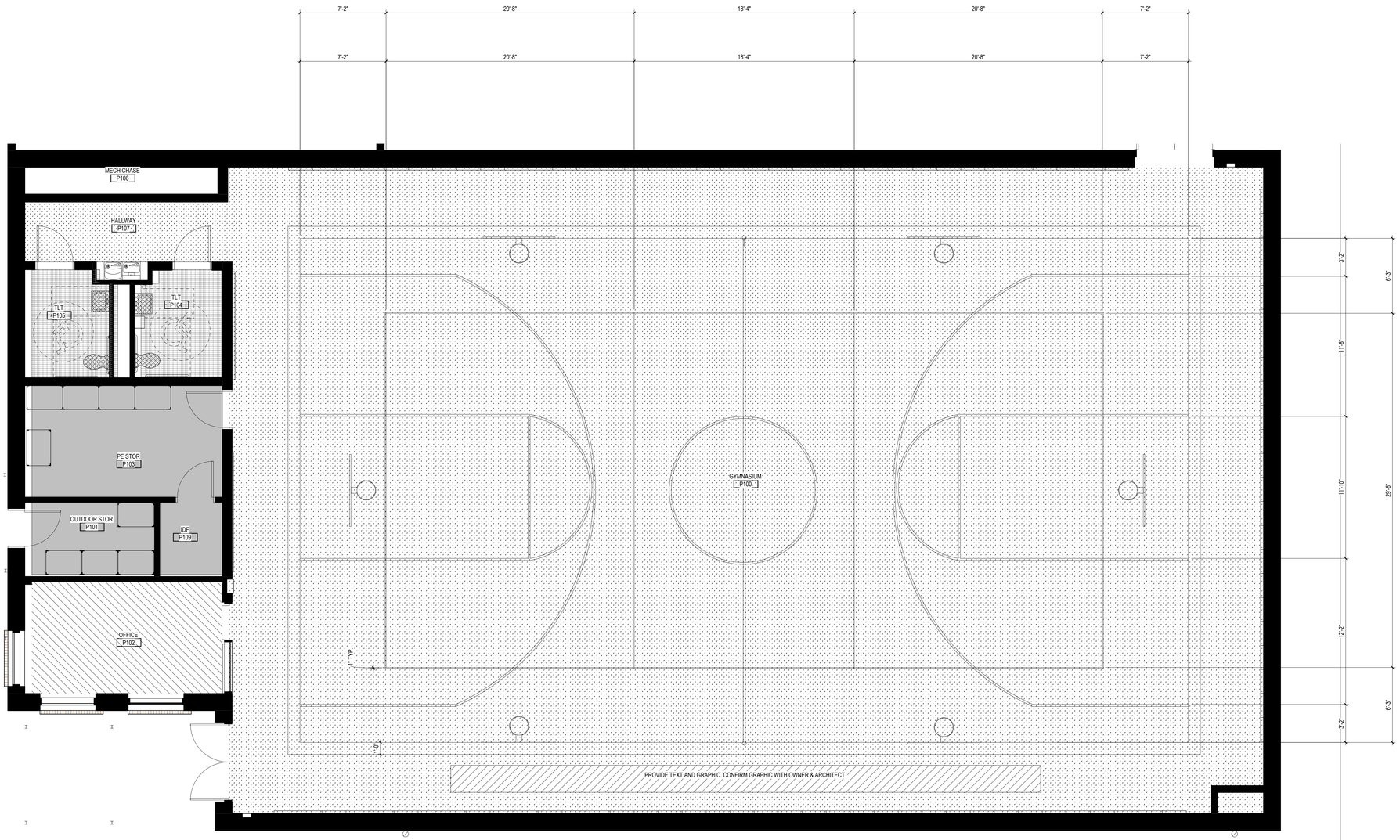
A901

1 1/2" = 1'-0"

PES

MATERIAL LEGEND

- RAF-1 RESILIENT ATHLETIC FLOORING
- CPT-1
- PT-3
- SC-1



A1 GYM STRIPING FINISH PLAN

A901

1/4" = 1'-0"

PES

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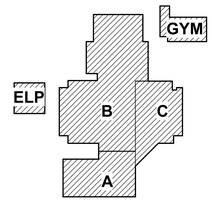

KEY PLAN

PROJECT NORTH

Revision | By | Appd | YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT | | | 2025.09.24
Issued | By | Appd | YYYY.MM.DD

File Name: N/A | Author: Dwn. | Designer: Dsgn. | Checker: Chkd. | 11/12/24 YYYY.MM.DD

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Client/Project
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ENLARGED GYM FINISH PLAN

Project No. 214001246 | Scale As indicated

Revision | Drawing No. A901 - PES

ORIGINAL SHEET - ARCH E1

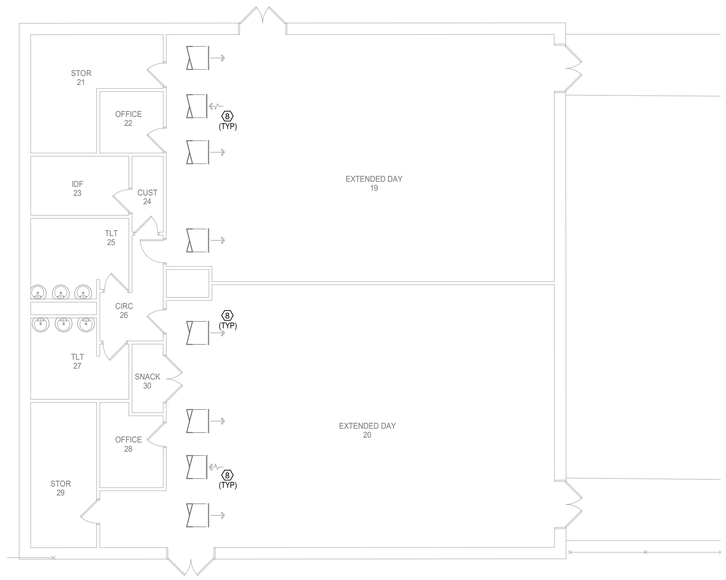
RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭	ITEM TO BE REMOVED

GENERAL NOTES:

1. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CHILLERS, AIR HANDLING UNITS, FANS, CONDENSING UNITS, BMCS CONTROL PANELS, TEMPERATURE SENSORS, AND CONTROL VALVES.
2. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
3. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

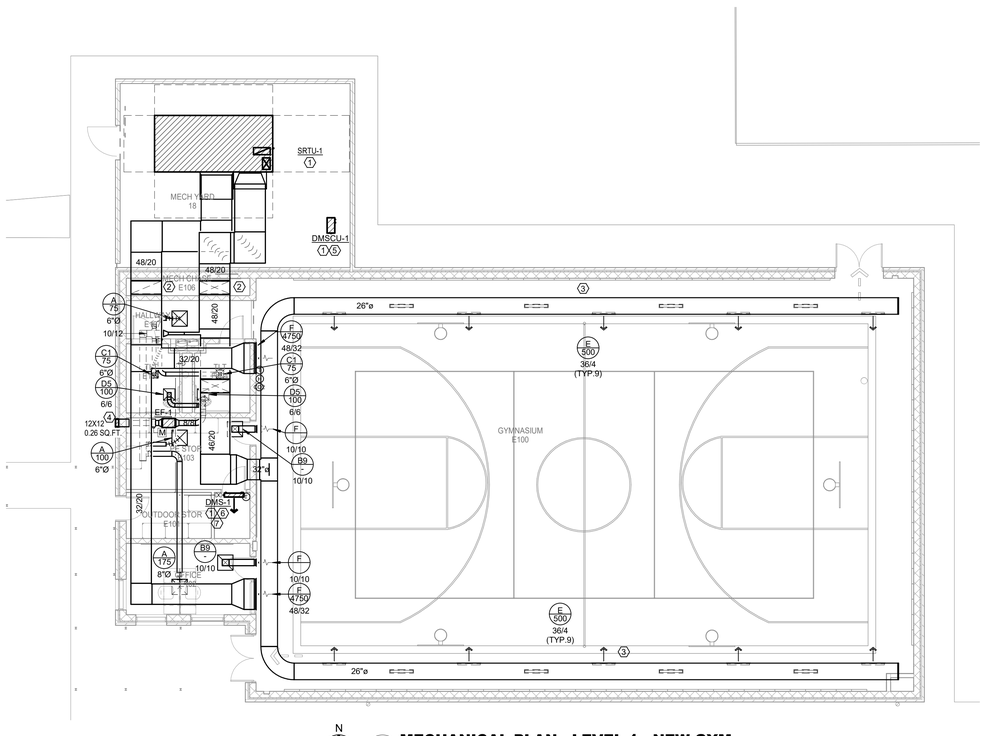
MECHANICAL KEYED NOTES:

1. VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2. ROUTE DUCTWORK WITHIN CHASE AND UP TO PLENUM SPACE AS INDICATED.
3. SPIRAL INSULATED DOUBLE WALL DUCTWORK PAINTED BY ARCHITECT. DUCTWORK SHALL BE TIGHTS TO STRUCTURE.
4. PROVIDE RUSKIN MODEL HZ700 WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA INDICATED. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT.
5. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
6. ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO LAVATORY WYE TAILPIECE LOCATED IN TLT E105. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
7. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPE ELEVATION INSIDE THE BUILDING SHALL NOT BE LESS THAN 7'3" AFF.
8. EXISTING SUPPLY AND RETURN AIR GRILLES TO REMAIN.



N

2 **MECHANICAL PLAN - LEVEL 1 - EXTENDED DAY LEARNING**
Scale: 1/8" = 1'-0"



N

1 **MECHANICAL PLAN - LEVEL 1 - NEW GYM**
Scale: 1/8" = 1'-0"

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Project No: 2023-04376-00

Notes

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09-24-2025

Client/Project Logo

BOND 2022
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
MECHANICAL FLOOR PLANS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

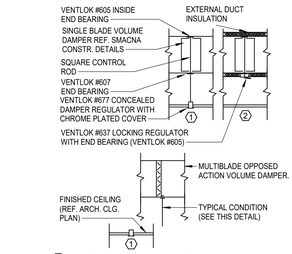
M201-PES

ORIGINAL SHEET - ARCH E1

SYMBOL LEGEND

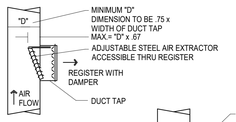
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(A)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
(S)	SMOKE DAMPER (VERTICAL)
(S)	SMOKE DAMPER (HORIZONTAL)
(F/S)	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
F/S	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
M	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
(T)	THERMOSTAT AND TEMPERATURE SENSOR
(H)	HUMIDISTAT
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
–CWS&R–	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CWS–	CONDENSER WATER SUPPLY
–CWR–	CONDENSER WATER RETURN
–CHWS&R–	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CHWS–	CHILLED WATER SUPPLY
–CHWR–	CHILLED WATER RETURN
–HWS&R–	HOT WATER FOR HYDRONIC HEATING SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–HWS–	HOT WATER FOR HYDRONIC HEATING SUPPLY
–HWR–	HOT WATER FOR HYDRONIC HEATING RETURN
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILIARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH OPERATOR
	PLUG VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	THERMOMETER WELL
	PETE'S PLUG
	PRESSURE GAUGE
	TEMPERATURE SENSOR IN PIPE
	VENTURI FLOW METER
	FLOW SWITCH
FM	FLOW MEASURING STATION
	EXPANSION JOINT
	FLEXIBLE CONNECTION
G.C.	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK CONSTRUCTION DETAILS



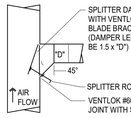
1 **DAMPER ABOVE INACCESSIBLE CEILING**

2 **DAMPER ABOVE LIFT-OUT CEILING**

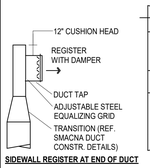


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

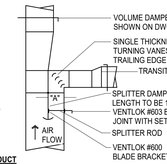
EXTRACTOR SIDEWALL REGISTER



DUCT TAP

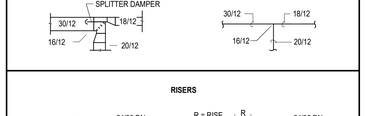


SIDEWALL REGISTER AT END OF DUCT

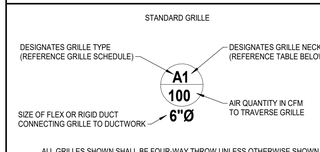


SPLITTER

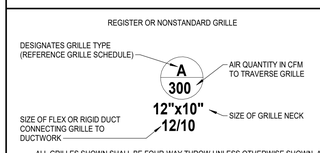
DUCTWORK SYMBOLS LEGEND



GRILLE SIZING SCHEDULE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	SUPPLY AIR CFM	WATTS	CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	REMARKS
DMS-1	370	40.0	208	1	60	75.0	62.5	17,105	11,628	-/15.0	(1,2,3,4,5,6)

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. DUCTLESS WALL MOUNTED UNIT.
2. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
4. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
5. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
6. PROVIDE ASPEN MINI AQUA PUMP TO BE INSTALLED INSIDE UNIT.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC. V	PH	F	RELATED UNIT MARK	REMARKS
DMSCU-1	17,100	95	-/15.0	208	1	60	DMS-1	(1,2,3)

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITHLOW AMBIENT CONTROL DOWN TO 20°F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

SPECIALIZED PACKAGED ROOFTOP UNIT - ELECTRIC HEAT

MARK	FAN SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC. V	P	F	COOLING AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING AMBIENT TEMP	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ IEER	ELECTRIC HEATING ENTERING AIR TEMP.(°F)	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	REMARKS
SRTU-1	9,500	2,000	1.15	10.0	480	3	60	79.9	66.6	98.0	335,100	251,200	10.0/13.2	61.8	245,664	72	SCR	(1,2,3,4,5,6,7,8,9,10)

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE SRTU FOR GROUND MOUNT WITH SIDE DISCHARGE AND DISCONNECT SWITCH.
2. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT WITH LOW AMBIENT CONTROL. ELECTRICIAN TO WIRE TO SEPARATE CIRCUIT.
3. PROVIDE FACTORY MOUNTED DDC CONTROLLER.
4. PROVIDE DIGITAL COMPRESSOR AND PREMIUM EFFICIENT MOTORS.
5. PROVIDE METAL MESH OUTSIDE AIR PRE FILTER WITH 2" PLEATED AND 4" FINAL FILTERS.
6. PROVIDE FAN CYCLING AND ADJUSTABLE COMPRESSOR LOCKOUT FOR LOW AMBIENT OPERATION.
7. PROVIDE MODULATING HOT GAS REHEAT.
8. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
9. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
10. SRTU SHALL PROVIDE A MINIMUM OF 850 CFM OF OUTSIDE AIR TO SPACE.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	P	F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	-	200	0.55	1800	0.5	120	1	60	-	SRTU-1	INLINE	BELT	COOK	SQN	(1,2,3)

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH MOTORIZED DAMPER.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" FACE.
B	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24".
C	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
D	EXHAUST AIR	DIFFUSER	-	STEEL	WHITE	TITUS	50F	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE. PERFERATED FACE.
E	GRILLE	SUPPLY AIR	-	STEEL	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
F	GRILLE	SUPPLY AIR	-	STEEL	WHITE	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

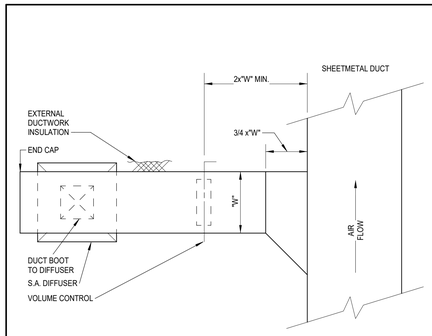
GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

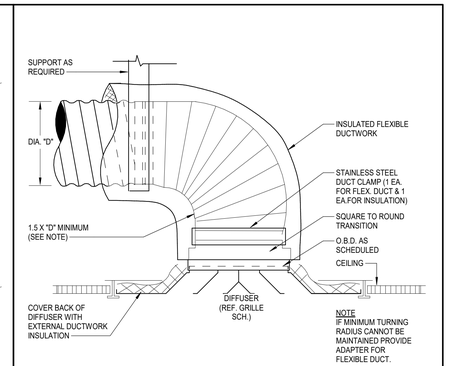
DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

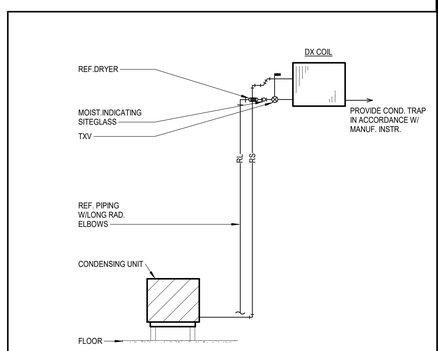
NOTES:
N/A - NOT APPLICABLE



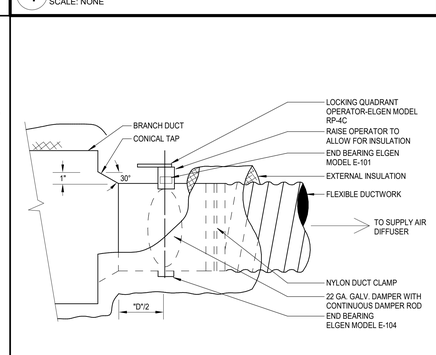
RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER
4 SCALE: NONE



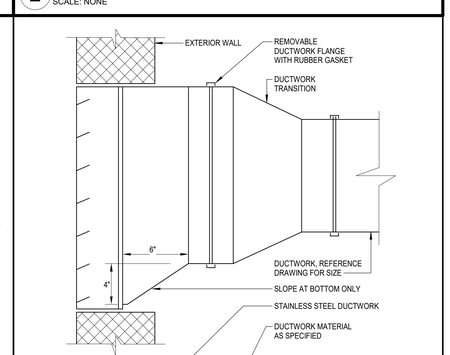
FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
2 SCALE: NONE



REFRIGERANT PIPING DIAGRAM
5 SCALE: NONE



FLEXIBLE DUCT TAP - CONICAL
3 SCALE: NONE



DUCTWORK AT LOUVER
1 SCALE: NONE

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Notes

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File Name: N/A	IP Dwn.	IP Dsgn.	VP Chkd.	11/27/24 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
MECHANICAL SCHEDULES

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

M301-PES

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES, ASSOCIATED CONTROLS AND EXIT SIGNAGE. IN THIS AREA. RETAIN ALL NORMAL AND EMERGENCY LIGHTING CIRCUITS INTACT FOR RE-USE TO POWER NEW LIGHT FIXTURES. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

ELECTRICAL GENERAL NOTES

1. EXCEPT AS OTHERWISE NOTED, ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

2. DISCONNECT AND REMOVE ALL ELECTRICAL POWER DEVICES SURFACE MOUNTED ON WALLS AND FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, REMOVE CIRCUITS BACK TO SOURCE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF WALL DEMOLITION.

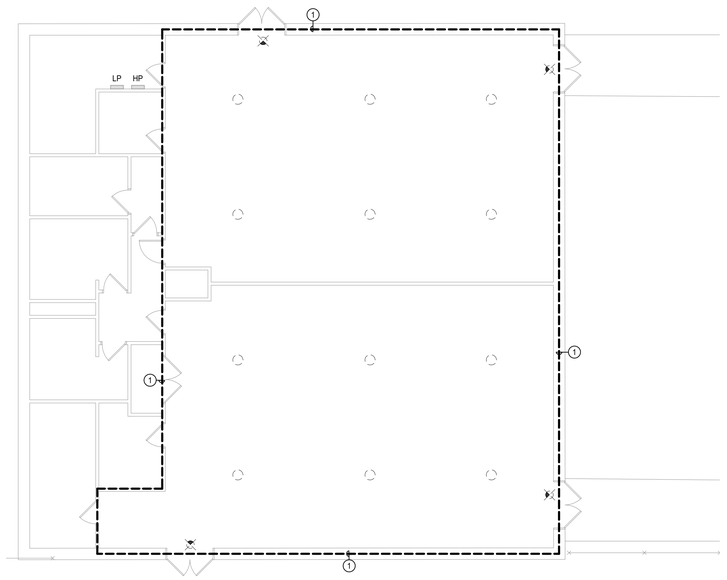
3. EXCEPT AS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL CONDUIT, WIRE AND ASSOCIATED DISCONNECT/CONTROLLER OF HVAC AND PLUMBING EQUIPMENT BEING REMOVED.

LINETYPE LEGEND

————	EXISTING TO REMAIN
— — — —	DISCONNECT AND REMOVE
————	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.



N

1 **ELECTRICAL DEMOLITION PLAN - LEVEL 1 - EXTENDED DAY LEARNING**
Scale: 1/8" = 1'-0"

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Permit/Seal

BRADLEY KALMANS
80219
LICENSED
09-24-2025

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

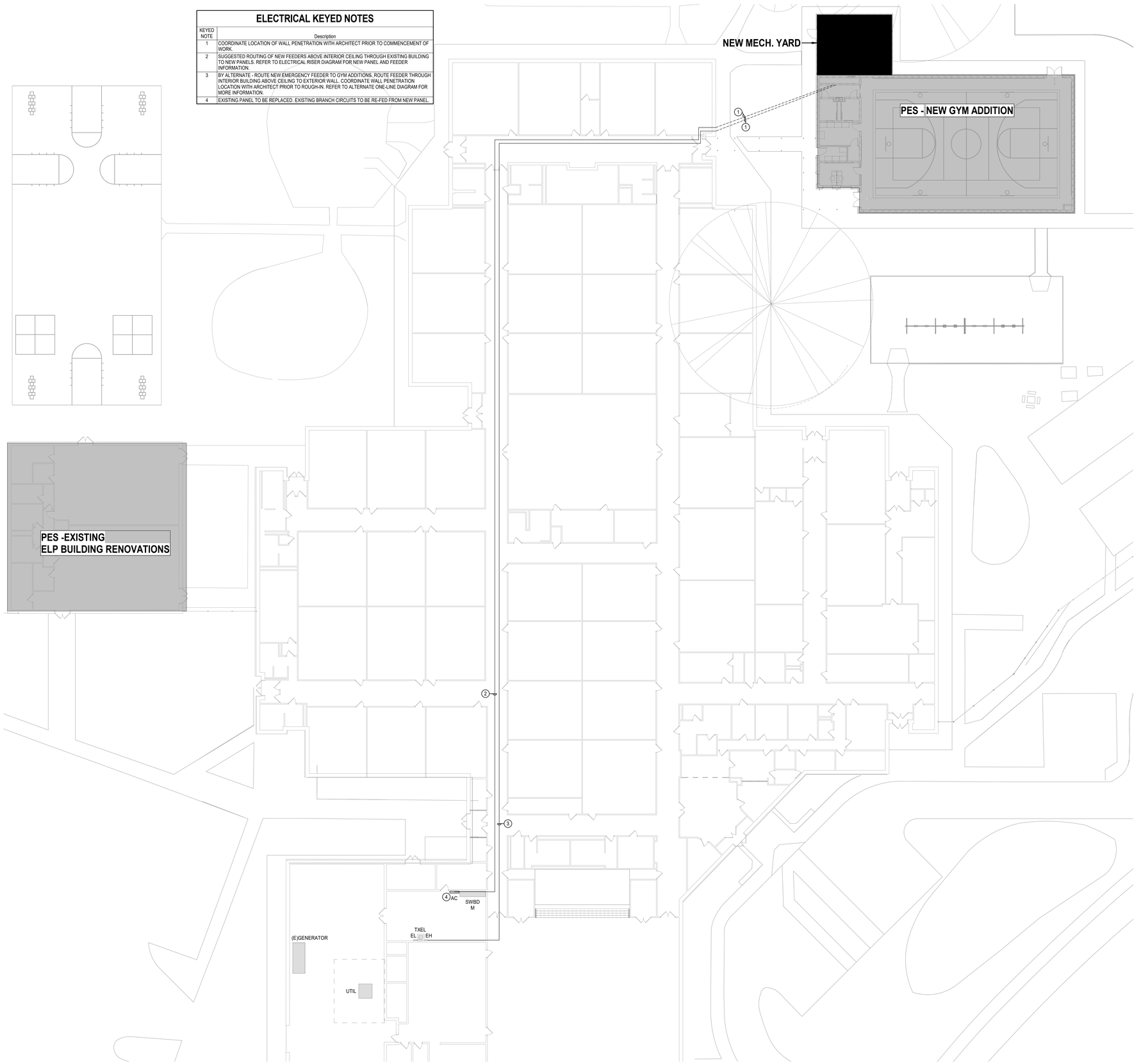
Title
ELECTRICAL DEMOLITION FLOOR PLANS

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.
	E001-PES

ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	COORDINATE LOCATION OF WALL PENETRATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
2	SUGGESTED ROUTING OF NEW FEEDERS ABOVE INTERIOR CEILING THROUGH EXISTING BUILDING TO NEW PANELS. REFER TO ELECTRICAL RISER DIAGRAM FOR NEW PANEL AND FEEDER INFORMATION.
3	BY ALTERNATE - ROUTE NEW EMERGENCY FEEDER TO GYM ADDITIONS. ROUTE FEEDER THROUGH INTERIOR BUILDING ABOVE CEILING TO EXTERIOR WALL. COORDINATE WALL PENETRATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ALTERNATE ONE-LINE DIAGRAM FOR MORE INFORMATION.
4	EXISTING PANEL TO BE REPLACED. EXISTING BRANCH CIRCUITS TO BE RE-FED FROM NEW PANEL.



N

1 **ELECTRICAL COMPOSITE PLAN**
Scale: 1/16" = 1'-0"

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	KJ	KJ	JZ	11/27/24

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STATE OF TEXAS
09-24-2025

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
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Title
ELECTRICAL COMPOSITE PLAN

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.

E100-PES

11/27/2025 11:03:09 AM
ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	MOUNT AT +54" AFF. FOR BMCS CONNECTION.
2	MOUNT AT +54" AFF. FOR F/A CONNECTION.
3	POWER FOR MOTORIZED FIRE/SMOKE DAMPERS. COORDINATE WITH DIVISION 23 FOR FINAL QUANTITY AND LOCATION, PROVIDE FINAL CONNECTION TO EACH FIRE/SMOKE DAMPER WITH 2#12, 1#12G. 3/4" C.
4	ROUTE 3/4" C. TO ASSOCIATED OUTDOOR UNIT. ROUTE PARALLEL WITH REFRIGERATION LINES.

ELECTRICAL GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURE AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.

2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.

3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS/TRANSFER DEVICES. REFER TO 26 09 24 LIGHTING CONTROLS.

4. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.

5. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.

7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.

8. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMMUNICATIONS PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.

LINETYPE LEGEND

———	EXISTING TO REMAIN
— — —	DISCONNECT AND REMOVE
———	NEW WORK

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

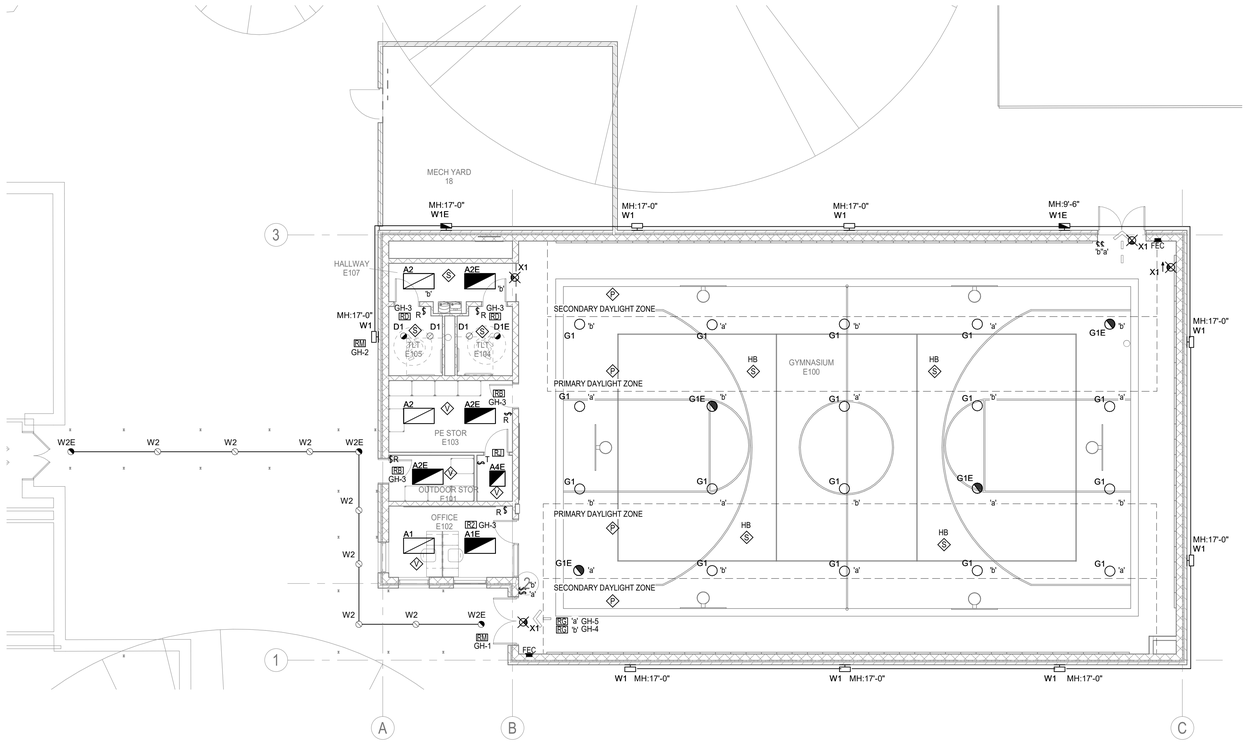
FIRE ALARM SYSTEM SHALL COMPLY WITH ALL CITY OF HOUSTON IBC AMENDMENTS. SMOKE DETECTORS SHALL BE PROVIDED IN ALL APPLICABLE ROOMS LISTED IN SECTION 907.2.3.1 OF THE 2021 IBC CITY OF HOUSTON AMENDMENTS.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

IECC-2021, C405.11 AUTOMATIC RECEPTACLE CONTROL. AT LEAST 50 PERCENT OF ALL 125V, 15-AMP AND 20-AMP RECEPTACLES INSTALLED IN ENCLOSED OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, CLASSROOMS AND INDIVIDUAL WORKSTATIONS, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS AND MODULE OFFICE WORKSTATION SYSTEMS SHALL HAVE AUTOMATIC RECEPTACLE CONTROL, AN OCCUPANT SENSOR SHALL TURN OFF INDICATED RECEPTACLES WITHIN 20 MINUTES AFTER DETERMINING THAT THE AREA IS UNOCCUPIED.



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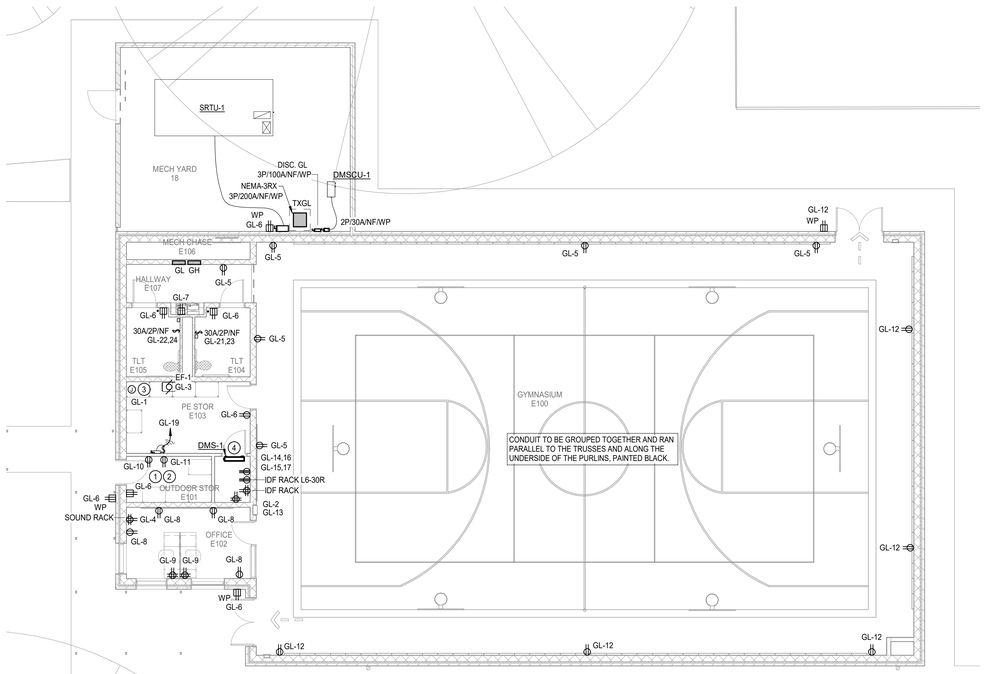
1 ELECTRICAL LIGHTING PLAN - LEVEL 1 - NEW GYM

Scale: 1/8" = 1'-0"



N

2 ELECTRICAL POWER PLAN - LEVEL 1 - NEW GYM

Scale: 1/8" = 1'-0"

N

3 ELECTRICAL LIGHTING PLAN - LEVEL 1 - EXTENDED DAY LEARNING

Scale: 1/8" = 1'-0"

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			03/20/25 YYYY.MM.DD

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PROFESSIONAL ENGINEER
09-24-2025

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ELECTRICAL FLOOR PLANS

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.
	E201-PES

ORIGINAL SHEET - ARCH E1

GENERATOR LOAD ANALYSIS
EXIST. PANEL EH

277/480, 3PH, 4W
40kVA/32kW - 60A

LOAD DESCRIPTION	LOAD KVA
EXISTING LOAD	1.9
CALCULATED EXISTING LOAD (125%)	2.38
NEW LOAD:	
RECEPTACLES (CONNECTED NEC 220.44)	10.6
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	0.3
HVAC - FANS, AHU'S (NEC 220)	--
LIGHTING	1.3
LIGHTING @ 125%	1.6
TOTAL KVA	14.3
TOTAL AMPS	17.2

TWO-HOUR FIRE RATED CABLE:

1. TWO-HOUR FIRE RATED POWER CABLE SHALL BE APPROVED BY THE LOCAL AHJ AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS IN COMPLIANCE WITH UL FIRE RESISTANCE DIRECTORY, ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT), AND SYSTEM 27.

2. TWO-HOUR FIRE RATED POWER CABLE SHALL BE INSTALLED AS APPROVED BY THE LOCAL AHJ IN STEEL EMT OR STEEL RIGID CONDUIT WITH STEEL SET SCREW OR THREADED FITTINGS. UL LISTED FLEXIBLE METALLIC STEEL CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 6-FEET. SUPPORT CONDUIT EVERY 5-FEET ON CONCRETE OR MASONRY WALLS OR A CONCRETE FLOOR-CEILING ASSEMBLY. THE FIRE RATING OF THE WALL OR FLOOR-CEILING ASSEMBLY MUST BE EQUAL TO OR GREATER THAN THE RATING OF THE ELECTRICAL CIRCUIT PROTECTIVE SYSTEM. PROVIDE J-BOX AT EACH END OF THE FIRE RATED CABLES IN THE FIRE RATED ROOM TO ALLOW SPLICE TO STANDARD BUILDING CABLE TO THE EQUIPMENT. PROVIDE SEALANT TO THE END OF THE RACEWAY TO PREVENT GASES FROM MIGRATING FROM THE FIRE RATED CABLE DOWN INTO THE EQUIPMENT.

INSULATION FOR TWO-HOUR FIRE RATED POWER CABLE:

1. INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 2196 FIRE TEST FOR CIRCUIT INTEGRITY OF FIRE-RESISTIVE POWER, INSTRUMENTATION, CONTROL AND DATA CABLES, AND UL 44, THERMOSET INSULATED WIRES AND CABLES.

a. INSULATION FOR CONDUCTORS SHALL BE UL TYPE RHW-2 OR RW90, 90 DEGREES C FOR WET LOCATIONS AND 90 DEGREES C FOR DRY LOCATIONS.
b. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT) – SYSTEM 27 OF THE UL FIRE RESISTANCE DIRECTORY.

FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
100A	1	(4) #3	#8	1-1/2"C

TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
30KVA	3#6, 1-1/4"C, 1#10G	3P-50A	4#2, 1-1/2"C, 1#6G	3P-100A	#8

LIGHTING CONTROLS SCHEDULE - ALTERNATE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM
ES	-	-	-	-	UL1008 GENERATOR TRANSFER DEVICE, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

LIGHTING FIXTURE SCHEDULE - ALTERNATE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	METALUX	24CGT5540C	T-GRID/GYP	5500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2	METALUX	24CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A4	METALUX	22CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X2 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE HARD CEILING MOUNTING ACCESSORIES.
D1	HALO	HC640D010-HM63040840-61MDH	RECESSED	4000L LED	4000 K	80	277 V	45 W	LED 6" RECESSED CAN LIGHT 0-10V DIMMING DRIVER. DLC CERTIFIED.
G1	METALUX	SSLED-LD5-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER .
W1	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
XG	SURE-LITES	LPX6-W-WG10	UNIVERSAL	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING. PROVIDE WIRE GUARD.

Branch Panel: GHE — NEW PANEL

Location: OUTDOOR STOR E101 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker			Circuit Description	CKT	Note
	1	Lighting	#12	20	1	0.1 / 0.1			1	20	#12	Lighting	2	
	3	Lighting Room E103, E101, E102, E107	#12	20	1		1.2 / 0.0		1	--	--	SPACE	4	
	5	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	6	
	7	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	8	
	9	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	10	
	11	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	12	
	13					5.1 / 0.0							14	
	15	TGLE	ONE LINE	50	3		3.3 / 0.0		3	30	--	SPDL	16	
	17							2.8 / 0.0					18	
			Total Load:			5.2 kVA	4.4 kVA	2.8 kVA						
			Total Amps:			20 A	17 A	10 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1.3 kVA	125.00%	1.6 kVA		
Motor	0.5 kVA	100.00%	0.5 kVA	**Total Conn. Load:**	12.4 kVA
Receptacles	10.6 kVA	97.26%	10.3 kVA	**Total Est. Demand:**	12.4 kVA
				Total Conn. Current:	15 A
				Total Est. Demand Current:	15 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: GLE — NEW PANEL

Location: OUTDOOR STOR E101 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TGLE | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MCB

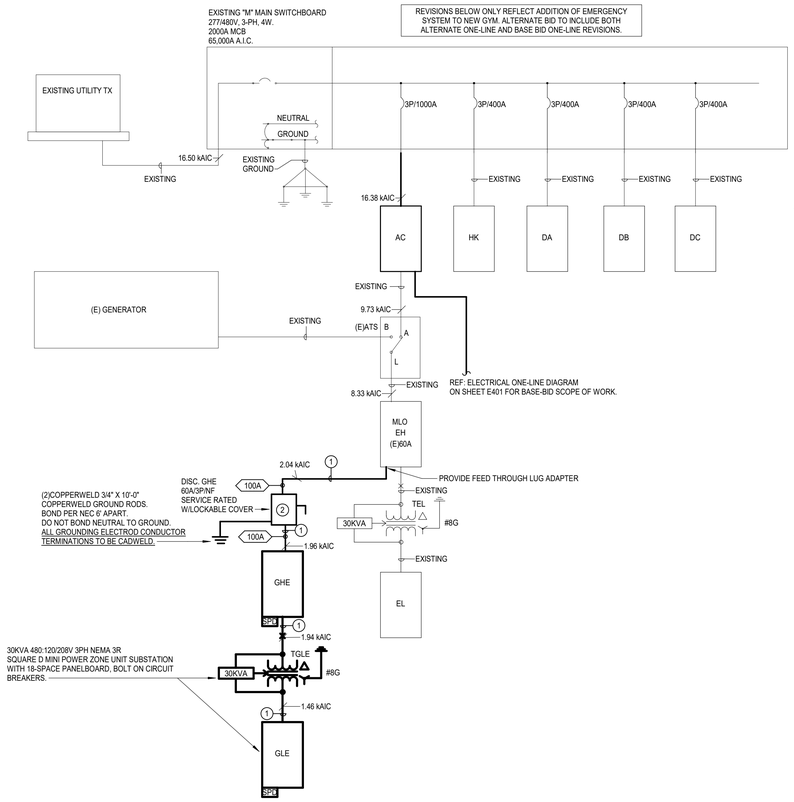
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker			Circuit Description	CKT	Note
	1	IDF Rack PE STOR E103	#10	30	2	1.8 / 1.0			1	20	#12	IDF Rack PE STOR E103	2	
	3						1.8 / 1.0		1	20	#12	Sound Rack OFFICE E102	4	
	5	IDF Rack PE STOR E103	#10	30	2			1.8 / 1.0	1	20	#12	IDF Rack PE STOR E103	6	
	7					1.8 / 0.5			1	20	#12	Motorized Damper PE STOR E103	8	LO
LO	9	F/A OUTDOOR STOR E101	#12	20	1		0.5 / 0.0		1	--	--	SPACE	10	
	11	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	12	
	13	SPARE	--	20	1	0.0 / 0.0							14	
	15	SPARE	--	20	1		0.0 / 0.0		3	30	--	SPDL	16	
	17	SPARE	--	20	1			0.0 / 0.0					18	
			Total Load:			5.1 kVA	3.3 kVA	2.8 kVA						
			Total Amps:			43 A	28 A	23 A						

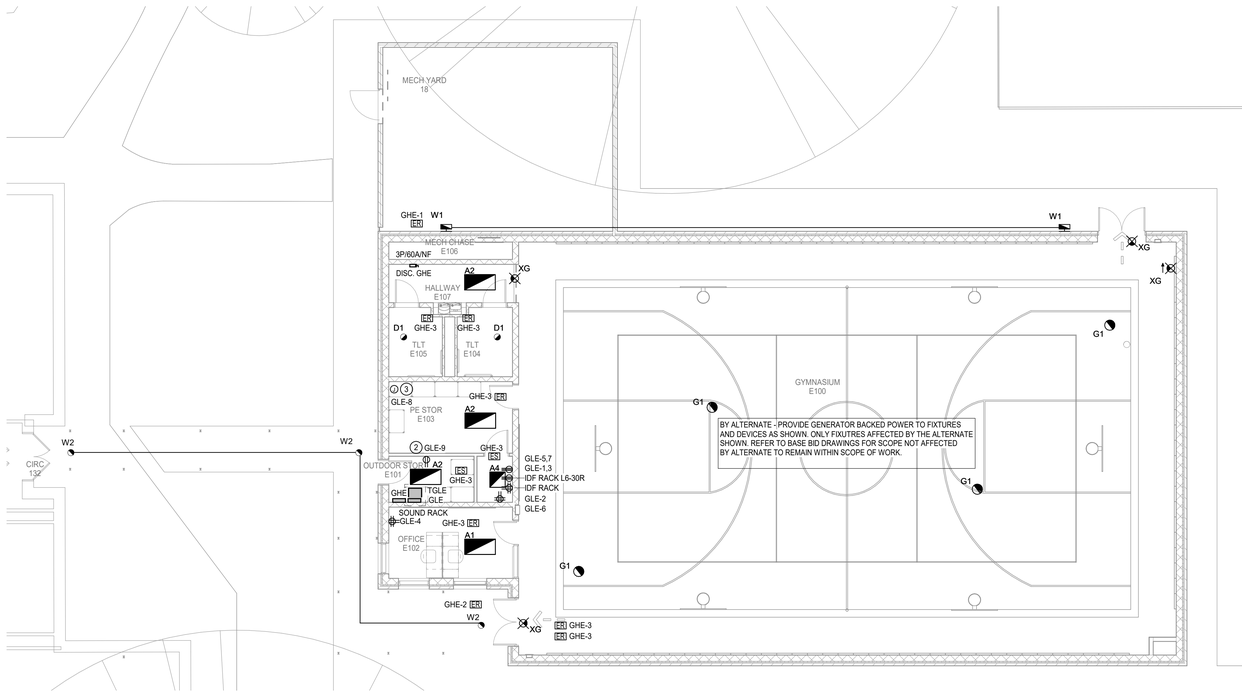
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	0.5 kVA	100.00%	0.5 kVA		
Receptacles	10.6 kVA	97.26%	10.3 kVA	**Total Conn. Load:**	11.1 kVA
				Total Est. Demand:	10.8 kVA
				Total Conn. Current:	31 A
				Total Est. Demand Current:	30 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE



2 ELECTRICAL ONE-LINE DIAGRAM - ALTERNATE
Scale: N.T.S.



N

1 ELECTRICAL POWER PLAN - LEVEL 1 - NEW GYM - ALTERNATE
Scale: 1/8" = 1'-0"

LINETYPE LEGEND

———	EXISTING TO REMAIN
— — —	DISCONNECT AND REMOVE
———	NEW WORK

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

ELECTRICAL GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURE AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.

2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.

3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS/TRANSFER DEVICES. REFER TO 26 09 24 LIGHTING CONTROLS.

4. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.

5. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.

7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.

8. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATIONS PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Ckkd.	YYYY.MM.DD
	KJ	KJ	JJ	03/20/25

Permit/Seal

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ELECTRICAL FLOOR PLANS - ALTERNATE

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

E301-PES

ORIGINAL SHEET - ARCH E1

Branch Panel: AC

REPLACEMENT - NEW...

Location: MECH 65 | **Supply From:** SWBD M | **Mounting:** Surface | **Volts:** 277/480 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 42,000 | **Enclosure:** Type 1 | **Mains:** 1000A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
	1					44.3 / 44.3							2	
R	3	CHILLER #1	--	225	3		44.3 / 44.3			3	225	-- CHILLER #2	4	R
	5							44.3 / 44.3					6	
	7					24.9 / 7.5							8	
R	9	TRANSFORMER XK	--	125	3		24.9 / 7.5			3	60	-- COOLING TOWER	10	R
	11							24.9 / 7.5					12	
	13					5.8 / 5.8							14	
R	15	CHP-2	--	50	3		5.8 / 5.8			3	50	-- CHP-1	16	R
	17							5.8 / 5.8					18	
	19					3.0 / 3.0							20	
R	21	CWP-2	--	30	3		3.0 / 3.0			3	30	-- CWP-1	22	R
	23							3.0 / 3.0					24	
	25					3.3 / 2.2							26	
R	27	EDH-39	--	20	3		3.3 / 2.2			3	15	-- AHU-1	28	R
	29							3.3 / 2.2					30	
	31					0.8 / 1.0							32	
R	33	ATS	--	60	3		0.8 / 1.0			3	15	-- CT HEATER	34	R
	35							0.8 / 1.0					36	
	37					0.0 / 0.0							38	
R	39	WATER HEATER	--	15	3		0.0 / 0.0			3	125	-- PANEL HP - DAYCARE BLDG.	40	R
	41							0.0 / 0.0					42	
	43					0.0 / 0.0							44	
R	45	TLCA	--	70	3		0.0 / 0.0			3	150	-- P.E. & DAY CARE	46	R
	47							0.0 / 0.0					48	
	49					41.9 / 0.0							50	
1	51	GH	ONE LINE	250	3		47.0 / 0.0			3	250	-- SPARE	52	
	53							48.1 / 0.0					54	
			Total Load:			187.8 kVA	192.9 kVA	194.0 kVA						
			Total Amps:			678 A	699 A	703 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	99.6 kVA	100.00%	99.6 kVA		
Lighting	5.2 kVA	125.00%	6.5 kVA	**Total Conn. Load:**	574.7 kVA
Power	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand:**	572.6 kVA
Receptacles	16.8 kVA	79.82%	13.4 kVA	**Total Conn. Current:**	691 A
				Total Est. Demand Current:	689 A

Existing Loads	Existing Connected	Existing Demand...	Existing Demand
Existing Load	437.7 kVA	100.00%	437.7 kVA

Notes:
R - CIRCUIT RELOCATED FROM EXISTING PANEL, PROVIDE NEW BREAKERS IN NEW PANEL, CONTRACTOR TO EXTEND CONDUIT AND WIRING MATCHING EXISTING SIZE TO NEW PANEL.
1- NEW CIRCUIT

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: GH

NEW PANEL

Location: HALLWAY E107 | **Supply From:** AC | **Mounting:** Recessed | **Volts:** 277/480 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 18,000 | **Enclosure:** Type 1 | **Mains:** 250A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
C	1	Exterior Lighting	#12	20	1	0.3 / 0.3				1	20	#12 Exterior Lighting	2	C
	3	Lighting Room E103, E101, E102	#12	20	1		0.5 / 2.1			1	20	#12 Lighting	4	
	5	Lighting	#12	20	1			2.0 / 0.0		1	--	-- SPACE	6	
	7	SPACE	--	--	1	0.0 / 0.0				1	--	-- SPACE	8	
	9	SPACE	--	--	1		0.0 / 0.0			1	--	-- SPACE	10	
	11	SPACE	--	--	1			0.0 / 0.0		1	--	-- SPACE	12	
	13	SPACE	--	--	1	0.0 / 0.0				1	--	-- SPACE	14	
	15	SPACE	--	--	1		0.0 / 0.0			1	--	-- SPACE	16	
	17	SPACE	--	--	1			0.0 / 0.0		1	--	-- SPACE	18	
	19	SPACE	--	--	1	0.0 / 0.0				1	--	-- SPACE	20	
	21	SPACE	--	--	1		0.0 / 0.0			1	--	-- SPACE	22	
	23	SPARE	--	20	1			0.0 / 0.0		1	--	-- SPACE	24	
	25	SPARE	--	20	1	0.0 / 0.0				1	--	-- SPACE	26	
	27	SPARE	--	20	1		0.0 / 0.0			1	--	-- SPACE	28	
	29	SPARE	--	20	1			0.0 / 0.0		1	20	-- SPARE	30	
	31					8.1 / 0.0				1	20	-- SPARE	32	
	33	TXGL	ONE LINE	50	3		11.2 / 0.0			1	20	-- SPARE	34	
	35							12.9 / 0.0		1	20	-- SPARE	36	
	37					33.2 / 0.0							38	
	39	SRTU-1 MECH YARD 18	#2/0	150	3		33.2 / 0.0			3	30	-- SPDL	40	
	41							33.2 / 0.0					42	
			Total Load:			41.9 kVA	47.0 kVA	48.1 kVA						
			Total Amps:			151 A	172 A	177 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	99.6 kVA	100.00%	99.6 kVA		
Heating	9.8 kVA	100.00%	9.8 kVA	**Total Conn. Load:**	137.0 kVA
Lighting	5.2 kVA	125.00%	6.5 kVA	**Total Est. Demand:**	134.9 kVA
Miscellaneous	4.6 kVA	100.00%	4.6 kVA	**Total Conn. Current:**	165 A
Motor	1.0 kVA	100.00%	1.0 kVA	**Total Est. Demand Current:**	162 A
Receptacles	16.8 kVA	79.82%	13.4 kVA		

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
C - CONTROLLED VIA CONTACTOR

Branch Panel: GL

NEW PANEL

Location: HALLWAY E107 | **Supply From:** TXGL | **Mounting:** Recessed | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 10,000 | **Enclosure:** Type 1 | **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
LO	1	Motorized Dampers PE STOR E103	#12	20	1	0.5 / 1.0				1	20	#12 IDF Rack PE STOR E103	2	
	3	EF-1 TLT E105	#12	20	1		0.5 / 1.0			1	20	#12 Sound Rack PE STOR E103	4	
	5	Receptacles Room E100, E107	#12	20	1			1.1 / 1.3		1	20	#12 Receptacles Room E105, E104	6	
	7	EDF HALLWAY E107	#12	20	1	0.8 / 0.7				1	20	#12 Receptacles OFFICE E102	8	
	9	Receptacles OFFICE E102	#12	20	1		0.7 / 0.5			1	20	#12 BMCS OUTDOOR STOR E101	10	
LO	11	F/A OUTDOOR STOR E101	#12	20	1			0.5 / 1.1		1	20	#12 Receptacles GYMNASIUM E100	12	
	13	IDF Rack PE STOR E103	#12	20	1	1.0 / 1.8							14	
	15	L6-30R IDF Rack PE STOR E103	#10	30	2		1.8 / 1.8			2	30	#10 L6-30R IDF Rack PE STOR E103	16	
	17							1.8 / 2.3					18	
	19	Trap Primer PE STOR E103	#12	20	1	0.0 / 2.3				2	30	#10 DMSCU-1 MECH YARD 18	20	
	21	IEWH-1 TLT E104	#10	30	2		2.5 / 2.5						22	
	23							2.5 / 2.5		2	30	#10 IEWH-1 TLT E104	24	
	25	SPACE	--	--	1	0.0 / 0.0				1	--	-- SPACE	26	
	27	SPACE	--	--	1		0.0 / 0.0			1	--	-- SPACE	28	
	29	SPACE	--	--	1			0.0 / 0.0		1	--	-- SPACE	30	
	31	SPACE	--	--	1	0.0 / 0.0				1	--	-- SPACE	32	
	33	SPARE	--	20	1		0.0 / 0.0			1	20	-- SPARE	34	
	35	SPARE	--	20	1			0.0 / 0.0		1	20	-- SPARE	36	
	37	SPARE	--	20	1	0.0 / 0.0							38	
	39	SPARE	--	20	1		0.0 / 0.0			3	30	-- SPDL	40	
	41	SPARE	--	20	1			0.0 / 0.0					42	
			Total Load:			8.1 kVA	11.2 kVA	12.9 kVA						
			Total Amps:			67 A	97 A	112 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	9.8 kVA	100.00%	9.8 kVA		
Miscellaneous	4.6 kVA	100.00%	4.6 kVA	**Total Conn. Load:**	32.2 kVA
Motor	1.0 kVA	100.00%	1.0 kVA	**Total Est. Demand:**	28.8 kVA
Receptacles	16.8 kVA	79.82%	13.4 kVA	**Total Conn. Current:**	89 A
				Total Est. Demand Current:	80 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CAREY RAMSEYWITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

UNLESS NOTED OTHERWISE, RETAIN IN PLACE ALL EXISTING CIRCUITS AND FEEDER FROM SOURCE FOR ALL EXISTING PANELS LABELED TO BE REPLACED AND / OR RELOCATED. EXTEND / RE-ROUTE EXISTING BRANCH CIRCUITS AND FEEDER LEFT IN PLACE AFTER DEMOLITION FROM EXISTING PANELS TO BE RELOCATED AND / OR REPLACED.

CONTRACTOR TO FIELD VERIFY INTERRUPTING FAULT CURRENT CAPACITY OF EXISTING PANELS AND / OR SWITCHBOARDS AND TO PROVIDE NEW BREAKERS/FUSES TO MATCH EXISTING.

PANELBOARD CIRCUIT DIRECTORY:

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW CIRCUIT DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. LOADS SERVED AND LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE". SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(B) FOR DETAILS.

ELECTRICAL LOAD ANALYSIS

EXIST. M

277/480, 3PH, 4W
2000A

LOAD DESCRIPTION	LOAD KVA
CALCULATED EXISTING LOAD - EXIST. DWGS	1183
NEW LOAD:	
RECEPTACLES (CONNECTED NEC 220.44)	16.8
1ST 10KVA @100% (NEC 220.44)	10
REMAINDER @50% (NEC 220.44)	3.4
HVAC - FANS, AHU'S (NEC 220)	104.2
MOTOR	1
HEATING	9.8
LIGHTING	5.2
LIGHTING @ 125%	6.5
TOTAL KVA	1317.9
TOTAL AMPS	1585.9

ELECTRICAL KEYED NOTES

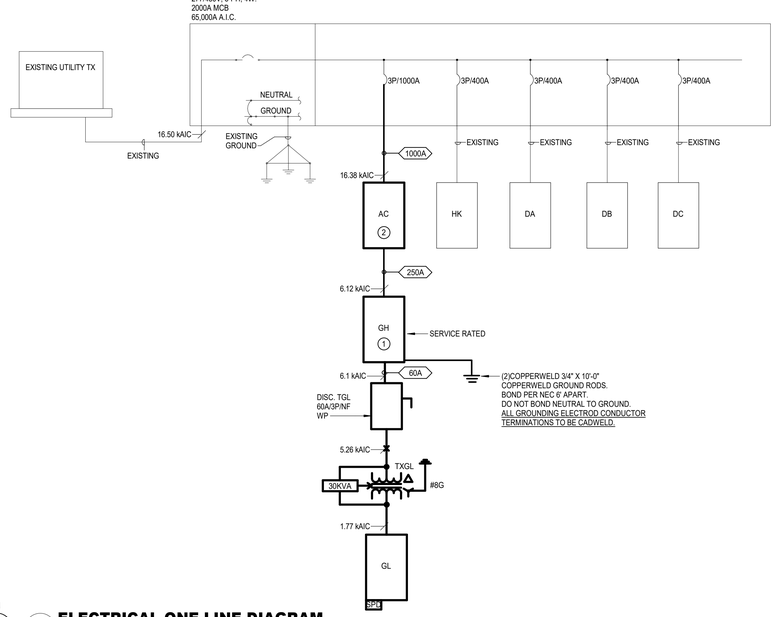
KEYED NOTE	Description
1	CLEARLY MARK COVER OF PANEL AS BUILDING SERVICE DISCONNECT.
2	REPLACMENT PANEL. CONTRACTOR TO ENSURE NEW PANEL WILL FIT IN EXISTING PANEL LOCATION.

FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
60A	1	(4) #6	#10	1"C
250A	1	(4) #250KCMIL	#4	3"C
1000A	3	(4) #400KCMIL	#2/0	3"C

TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
30KVA	3#6, 3/4"C, 1#10G	3P-50A	4#2, 1-1/4"C, 1#8G	3P-100A	#8



N

1 **ELECTRICAL ONE-LINE DIAGRAM**
Scale: N.T.S.

LINETYPE LEGEND

————	EXISTING TO REMAIN
— — — —	DISCONNECT AND REMOVE
————	NEW WORK

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Notes

Revision	By	Appd	YYYY.MM.DD

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09-24-2025

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ELECTRICAL ONE-LINE AND PANEL SCHEDULES

Project No.	Scale
214001246	N.T.S.
Revision	Drawing No.

E401-PES

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	METALUX	24CGT5540C	T-GRID/GYP	5500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A1E	METALUX	24CGT5540C - EL14W	T-GRID/GYP	5500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
A2	METALUX	24CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2E	METALUX	24CGT4540C - EL14W	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
A4	METALUX	22CGT4540C	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X2 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE HARD CEILING MOUNTING ACCESSORIES.
A4E	METALUX	22CGT4540C-EL14W	T-GRID/GYP	4500L LED	4000 K	80	277 V	50 W	2X2 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
B1	METALUX	14CGT4040C	T-GRID/GYP	4000L LED	4000K	80	277 V	50 W	1X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
C1	METALUX	4SNL6D-LD5-LN-41SL-LN-UNV-L840-CD1-U	SUSPENDED/SURFACE	4100L LED	4000 K	80	277 V	20 W	1x4 SUSPENDED/SURFACE STRIP.
D1	HALO	HC640D010-HM63040840-81MDH	RECESSED	4000L LED	4000 K	80	277 V	45 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED.
D1E	HALO	HC640D010-HM63040840-81MDHIEM-REM14	RECESSED	4000L LED	4000 K	80	277 V	45 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE EMERGENCY BATTERY BACKUP.
G1	METALUX	SSLED-LD5-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER .
G1E	METALUX	SSLED-LD5-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER . PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
W1	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
W1E	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.
W2	FAIL-SAFE	TRO11-LD4-25W-40-OPL-XX-UNV-EDC1	SURFACE	3265L LED	4000 K	80	277 V	30 W	LED 11-INCH ARCHITECTURAL ROUND FIXTURE, SURFACE MOUNTED, WET LOCATION LISTED, ALUMINUM HOUSING, POLYCARBONATE LENS. COORDINATE FINISH WITH ARCHITECT. DLC CERTIFIED.
W2E	FAIL-SAFE	TRO11-LD4-25W-40-OPL-XX-UNV-EDC1-EL5W	SURFACE	3265L LED	4000 K	80	277 V	30 W	LED 11-INCH ARCHITECTURAL ROUND FIXTURE, SURFACE MOUNTED, WET LOCATION LISTED, ALUMINUM HOUSING, POLYCARBONATE LENS. COORDINATE FINISH WITH ARCHITECT. DLC CERTIFIED PROVIDE INTEGRAL EMERGENCY BATTERY PACK..
X1	SURE-LITES	LPX7-W-WG10	UNIVERSAL	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.
XG	SURE-LITES	LPX6-W-WG10	UNIVERSAL	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP. PROVIDE WIRE GUARD.

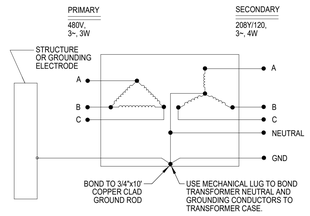
APPROVED LIGHTING MANUFACTURERS:
PHILLIPS, COOPER (METALUX), LITHONIA, OR LUTRON

NOTES:
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHT FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHT SCHEDULE AND THE SPECIFICATIONS, THE BETTER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
THE ABOVE LIGHTING MANUFACTURERS SUBSTITUTION LIST DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. IT SHALL BE THE RESPONSIBILITY OF THECONTRACTOR TO CAREFULLY SELECT SUBSTITUTIONS FOR THE SPECIFIED LIGHT FIXTURES FROM THE APPROVED LIGHTING MANUFACTURERS LISTED ABOVE. WHERE SPECIFIC OPTIONS / ACCESSORIES ARE SPECIFIED, THEY SHALL BE PROVIDED AS SPECIFIED WITH THE SUBSTITUTION.
DUE TO THE WIDE RANGE OF FIXTURE QUALITIES OFFERED BY EACH MANUFACTURER, THE APPROVED LIGHTING MANUFACTURERS SUBSTITUTION LIST IS NOT INTENDED TO INDICATE THAT ANY OR ALL MANUFACTURERS LISTED WILL HAVE SUITABLE SUBSTITUTIONS FOR THE LIGHT FIXTURES OR POLES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

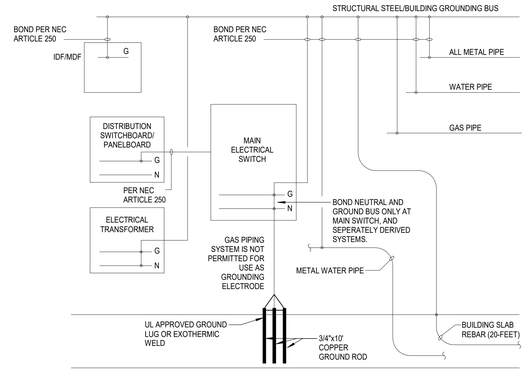
LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description
R2	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	2	3	ROOM CONTROLLER, 0-10V DIMMING.
RA	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, 0-10V DIMMING.
RB	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, NO DIMMING.
RD	OCCUPANCY - AUTO ON 100% / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, NO DIMMING.
RE	OCCUPANCY - AUTO ON 100% / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	CORRIDOR ROOM CONTROLLER, NO DIMMING. BMCS ON/OFF INTERFACE FOR OCCUPIED / UNOCCUPIED BUILDING OPERATION. PROVIDE OCCUPANCY BASED SENSORS WHERE SHOWN. LOCATE (1) KEYED SWITCH AT MAIN ENTRY DOOR ADJACENT TO SECURITY KEYPAD.
RG	OCCUPANCY - AUTO ON 50% / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	GYM ROOM CONTROLLER, 0-10V DIMMING. BMCS ON/OFF INTERFACE FOR OCCUPIED / UNOCCUPIED BUILDING OPERATION. LOCATE 0-10 V DIMMING SWITCHES AT EACH ENTRY FOR DUAL-LEVEL CONTROL WITH ALTERNATE FIXTURES.
RJ	NONE	1	0	1	ON/OFF DIGITAL TIMER SWITCH. WATTSTOPPER TS-400. WHERE MULTIPLE SWITCHES ARE USED, THESE SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
RL	NONE	1	0	1	CONTACTOR CONTROLLED WITH BMCS ON/OFF INTERFACE FOR PHOTOSENSOR / SCHEDULE. MANUAL OVERRIDE LOCATED ADJACENT TO PANEL FEEDING LOAD.
RM	NONE	1	0	1	CONTACTOR CONTROLLED WITH BMCS ON/OFF INTERFACE FOR PHOTOSENSOR / SCHEDULE. EXTERIOR LIGHTING SHALL BE TURNED OFF FROM 12:00AM TO 6:00AM OR FROM 1 HOUR AFTER CLOSING TO 1 HOUR BEFORE OPENING. MANUAL OVERRIDE LOCATED IN MDF ROOM.
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM
ES	-	-	-	-	UL1008 GENERATOR TRANSFER DEVICE, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

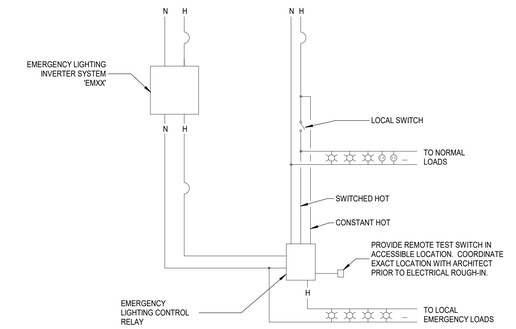
NOTES:
- PER 2021 IECC C405, AREAS / ROOMS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY ARE EXEMPT FROM AUTOMATIC CONTROLS.
- REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL INSTALLATION.
- PROVIDE PHOTOCELL WITHIN DAYLIGHT ZONE ONLY WHERE SHOWN ON FLOORPLANS.
- CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.
-ACCEPTABLE LIGHTING CONTROLS MANUFACTURERS: INTELLIGENT LIGHTING CONTROLS (ILC), COOPER, ACUITY, LUTRON
-LIGHTING CONTROLS CATEGORY DATA CABLES TO BE LIME GREEN.



4 **GROUNDING FOR TRANSFORMERS**
Scale: N.T.S.



5 **SYSTEM GROUNDING DETAIL**
Scale: N.T.S.



REFER TO MANUFACTURER'S WIRING DETAILS AND INSTALLATION MANUALS PRIOR TO ELECTRICAL ROUGH-IN. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S REQUIREMENTS.

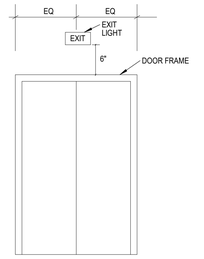
6 **EMERGENCY LIGHTING CONTROL RELAY**
Scale: N.T.S.

SYMBOL SCHEDULE

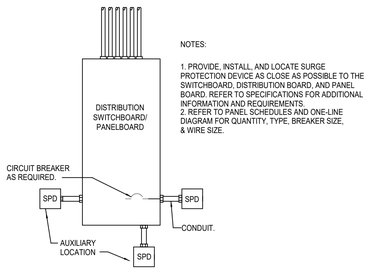
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$2	LINE VOLTAGE 2-POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE KEYED SWITCH
$3K	LINE VOLTAGE KEYED 3-WAY SWITCH
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. AUTO ON / AUTO OFF.
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$MC	MOMENTARY CONTACT SWITCH
[B]	PUSH BUTTON
$TH	6-HOUR TIMER SWITCH WITH HOLD
$T	6-HOUR TIMER SWITCH WITH NO HOLD
	20 AMP GENERATOR TRANSFER DEVICE
LOW VOLTAGE LIGHTING CONTROLS	
$R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
$B	BMCS TIMER LOCAL OVERRIDE SWITCH
P	CEILING MOUNTED PHOTO SENSOR
V	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
S	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
R	LIGHTING CONTROLLER WITH GTD. ZONES AS REQUIRED.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	ISOLATED GROUND RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
ANNC	FIRE ALARM REMOTE ANNUCIATOR
[T]	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
J	DISCONNECT SWITCH AS REQUIRED
J	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
VFD	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
PB	IN-GROUND PULL BOX
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	ELECTRICAL EMERGENCY LIFE SAFETY DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:
-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

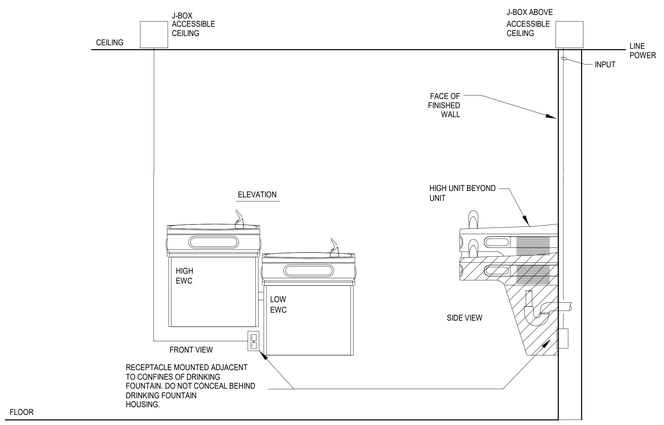


3 **TYPICAL EXIT SIGN LOCATION**
Scale: N.T.S.



NOTES:
1. PROVIDE, INSTALL, AND LOCATE SURGE PROTECTION DEVICE AS CLOSE AS POSSIBLE TO THE SWITCHBOARD, DISTRIBUTION BOARD, AND PANEL BOARD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM FOR QUANTITY, TYPE, BREAKER SIZE, & WIRE SIZE.

1 **SURGE PROTECTION DEVICE DETAIL**
Scale: N.T.S.



2 **ELECTRIC DRINKING FOUNTAIN POWER REQUIREMENTS**
Scale: N.T.S.

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Notes

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	YYYY.MM.DD
				06/18/25

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INTERIM REVIEW DOCUMENTS
THE DESIGN DOCUMENTS DEPICTED HEREIN ARE FOR THE PURPOSE OF REVIEW AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT, OR CONSTRUCTION, UNDER THE AUTHORITY OF BRADLEY KALMANS, P.E. TX. REGISTRATION NO. 80319 ON JUNE 20, 2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

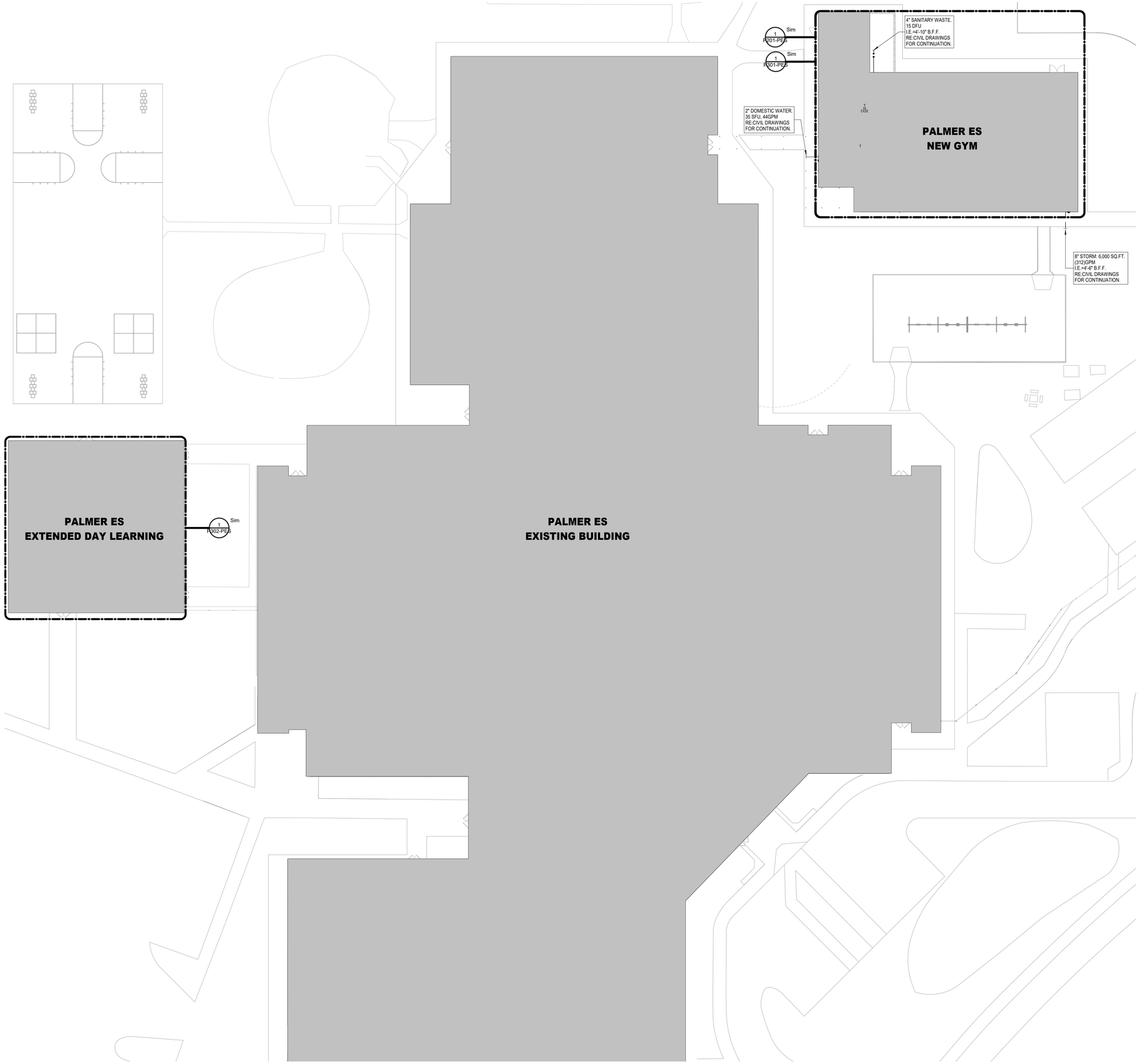
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES

Project No.	Scale
214001246	N.T.S.
Revision	Drawing No.

E501-PES

<Pick location in Project Information>
7/22/2025 11:03:43 AM
ORIGINAL SHEET - ARCH E1



N

1 **PLUMBING COMPOSITE PLAN**
Scale: 1/16" = 1'-0"

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Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	AA	AA	EH	11/27/24

Permit/Seal

Client/Project Logo

2022 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

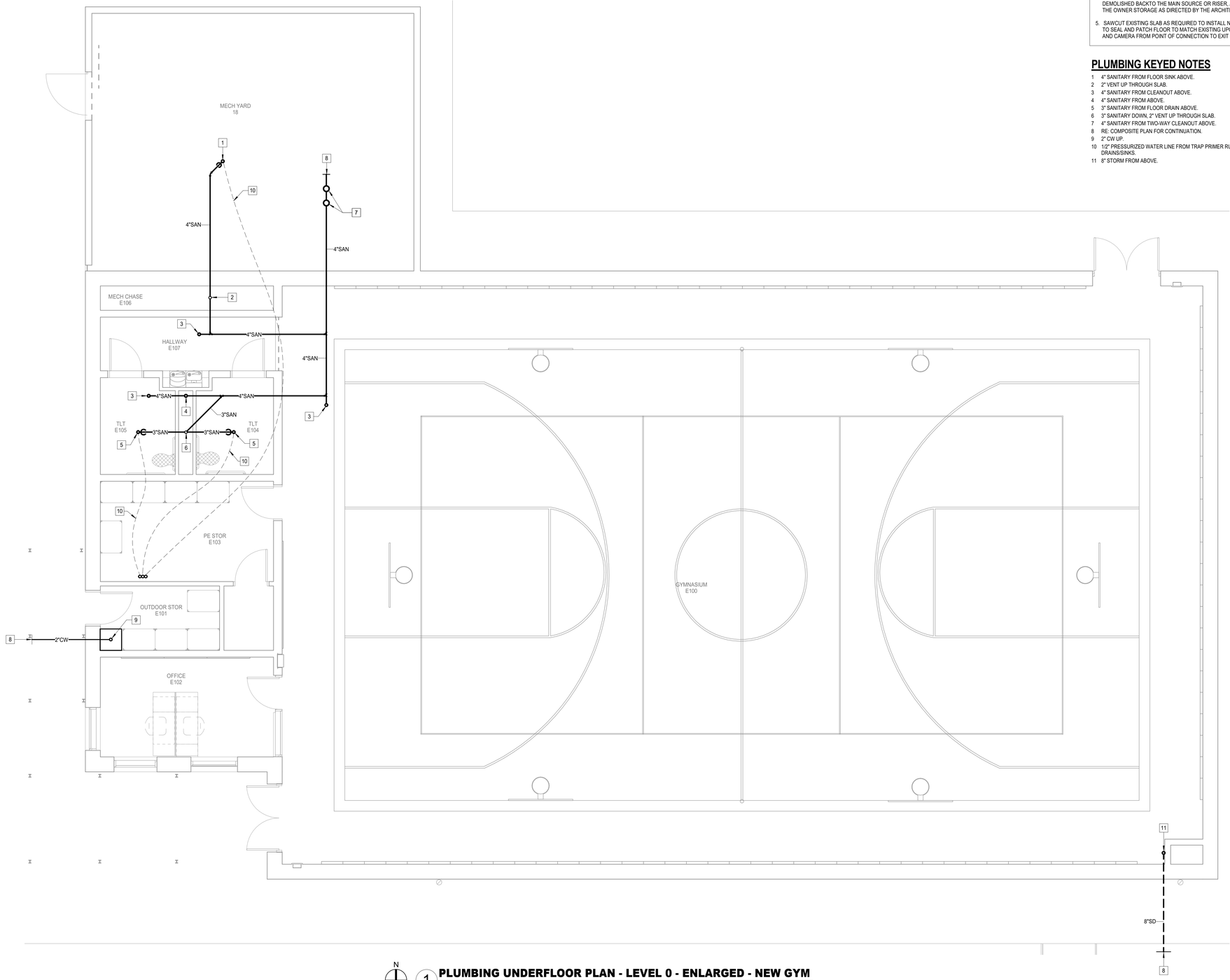
Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLUMBING COMPOSITE PLAN

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.
	P100-PES

ORIGINAL SHEET - ARCH E1



N

1 **PLUMBING UNDERFLOOR PLAN - LEVEL 0 - ENLARGED - NEW GYM**
Scale: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.
4. ANY OTHER ITEMS NOT REFERENCED WHICH ARE LOCATED IN THE DEMOLISHED SPACE (VENT, WASTE, WATER HEATER, PLUMBING FIXTURE, ETC.) THAT ARE IDENTIFIED OR DISCOVERED DURING DEMOLITION WHICH WILL NOT BE USED FOR THIS PROJECT, SHALL BE DEMOLISHED BACKTO THE MAIN SOURCE OR RISER, AND DEVICES SHALL BE RETAINED TO THE OWNER STORAGE AS DIRECTED BY THE ARCHITECT/OWNER.
5. SAWCUT EXISTING SLAB AS REQUIRED TO INSTALL NEW PIPING BELOW FLOOR, CONTRACTOR TO SEAL AND PATCH FLOOR TO MATCH EXISTING UPON COMPLETION, CONTRACTOR TO JET AND CAMERA FROM POINT OF CONNECTION TO EXIT POINT OUTSIDE OF BUILDING

PLUMBING KEYED NOTES

1 4" SANITARY FROM FLOOR SINK ABOVE.
2 2" VENT UP THROUGH SLAB.
3 4" SANITARY FROM CLEANOUT ABOVE.
4 4" SANITARY FROM ABOVE.
5 3" SANITARY FROM FLOOR DRAIN ABOVE.
6 3" SANITARY DOWN, 2" VENT UP THROUGH SLAB.
7 4" SANITARY FROM TWO-WAY CLEANOUT ABOVE.
8 RE: COMPOSITE PLAN FOR CONTINUATION.
9 2" CW UP.
10 1/2" PRESSURIZED WATER LINE FROM TRAP PRIMER RUNNING BELOW SLAB, SERVING FLOOR DRAINS/SINKS.
11 8" STORM FROM ABOVE.

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Notes

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File Name: N/A	AA Dwn.	AA Dsgn.	EH Chkd. 11/27/24 YYYY.MM.DD

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STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2022 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLUMBING UNDERFLOOR ENLARGED PLANS - NEW GYM

Project No. 214001246
Scale As indicated
Revision
Drawing No. **P201-PES**

ORIGINAL SHEET - ARCH E1

FIRE SPRINKLER SYSTEM NOTES

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

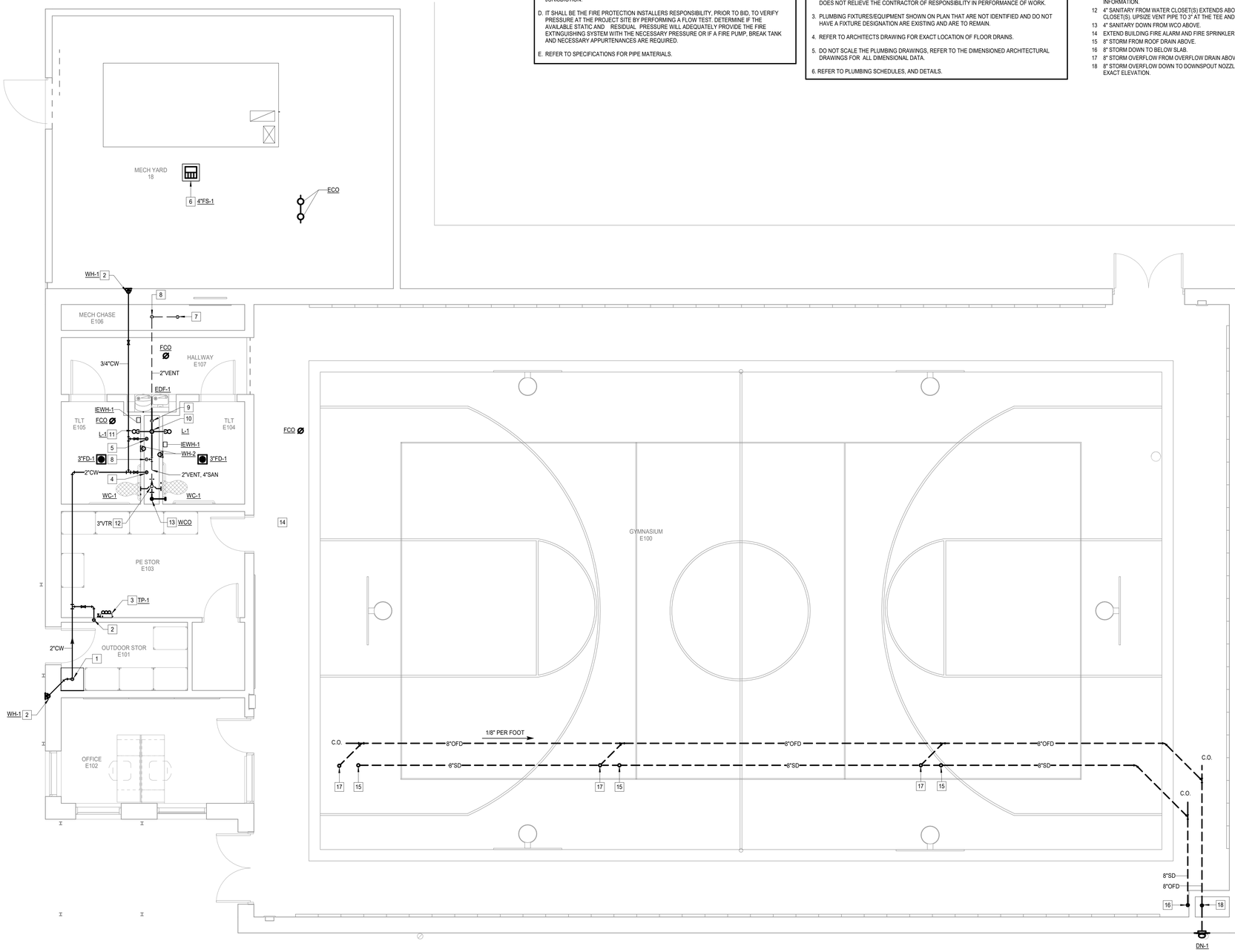
E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

PLUMBING GENERAL NOTES

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.
4. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
5. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
6. REFER TO PLUMBING SCHEDULES, AND DETAILS.

PLUMBING KEYED NOTES

1 2" CW FROM BELOW SLAB. 2" WATER ENTRY. REFER TO PLUMBING DETAILS SHEET.
2 3/4" CW DOWN TO SERVE PLUMBING FIXTURE/S.
3 PROVIDE AND INSTALL NEW TRAP PRIMER AT 5'-0" ABOVE GRADE. RE: PLUMBING SCHEDULES AND DETAILS SHEETS FOR MORE INFORMATION.
4 2" COLD WATER DOWN IN CHASE. EXTEND 1-1/2" LINE TO EACH WATER CLOSET.
5 1" COLD WATER DOWN IN CHASE. EXTEND 1" LINE TO SERVE WALL HYDRANTS, INSTANTANEOUS WATER HEATERS, AND LAVATORIES. EXTEND 3/4" LINE TO SERVE ELECTRIC WATER FOUNTAIN.
6 ELEVATED CONDENSATE FLOOR SINK. RE: PLUMBING DETAILS SHEET FOR MORE INFORMATION.
7 2" VENT FROM BELOW.
8 2" VENT UP.
9 2" VENT FROM EDF-1 UP. 2" SAN FROM EDF-1 DOWN. 4" SAN DOWN THROUGH SLAB.
10 2" SANITARY DOWN, 2" VENT UP.
11 PROVIDE WYE-TAILPIECE FOR DMS-1 CONDENSATE DRAIN. RE: M201 FOR ADDITIONAL INFORMATION.
12 4" SANITARY FROM WATER CLOSET(S) EXTENDS ABOVE SLAB, 2" VENT UP FROM WATER CLOSET(S). UPSIZE VENT PIPE TO 3" AT THE TEE AND VENT THROUGH ROOF.
13 4" SANITARY DOWN FROM WCO ABOVE
14 EXTEND BUILDING FIRE ALARM AND FIRE SPRINKLER SYSTEM INTO NEW AREA.
15 8" STORM FROM ROOF DRAIN ABOVE.
16 8" STORM DOWN TO BELOW SLAB.
17 8" STORM OVERFLOW FROM OVERFLOW DRAIN ABOVE.
18 8" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE. REFER TO ARCHITECTURAL DRAWING FOR EXACT ELEVATION.



N

1 **PLUMBING PLAN - LEVEL 1 - ENLARGED - NEW GYM**
Scale: 1/4" = 1'-0"

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Notes

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	AA	AA	EH	11/27/24

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

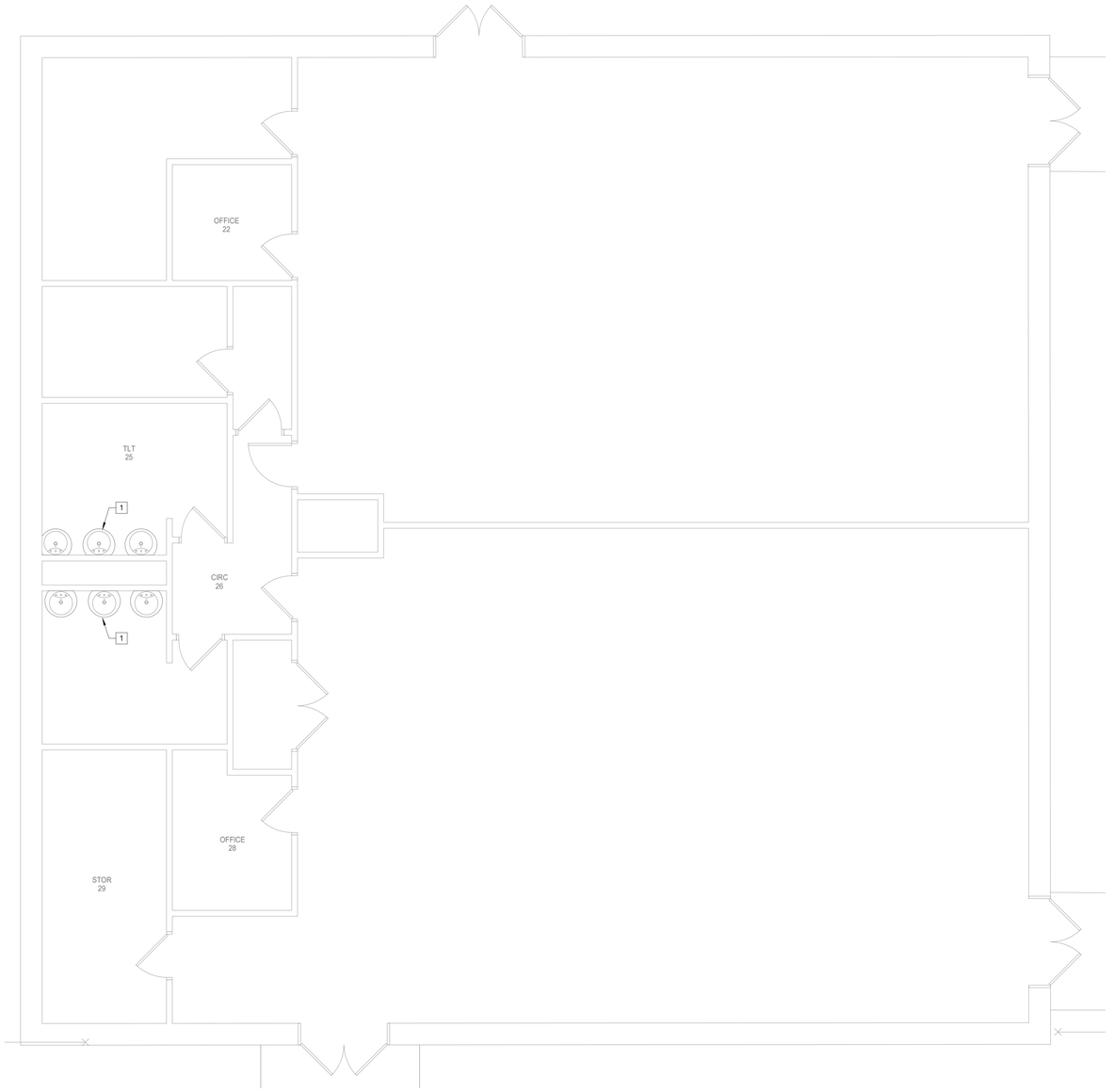
Title
PLUMBING ENLARGED PLAN - LEVEL1 - NEW GYM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	P301-PES

ORIGINAL SHEET - ARCH E1

PLUMBING KEYED NOTES

1 PROVIDE INSULATION KITS AT ALL LAVATORIES. RE: GENERAL NOTES, PLUMBING LEGENDS AND SCHEDULES SHEET.



N

1 **PLUMBING PLAN - LEVEL 1 - ENLARGED - EXTENDED DAY LEARNING**
Scale: 1/4" = 1'-0"

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	AA	AA	EH	11/27/24

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BRADLEY KALMANS
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LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

BOND
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INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

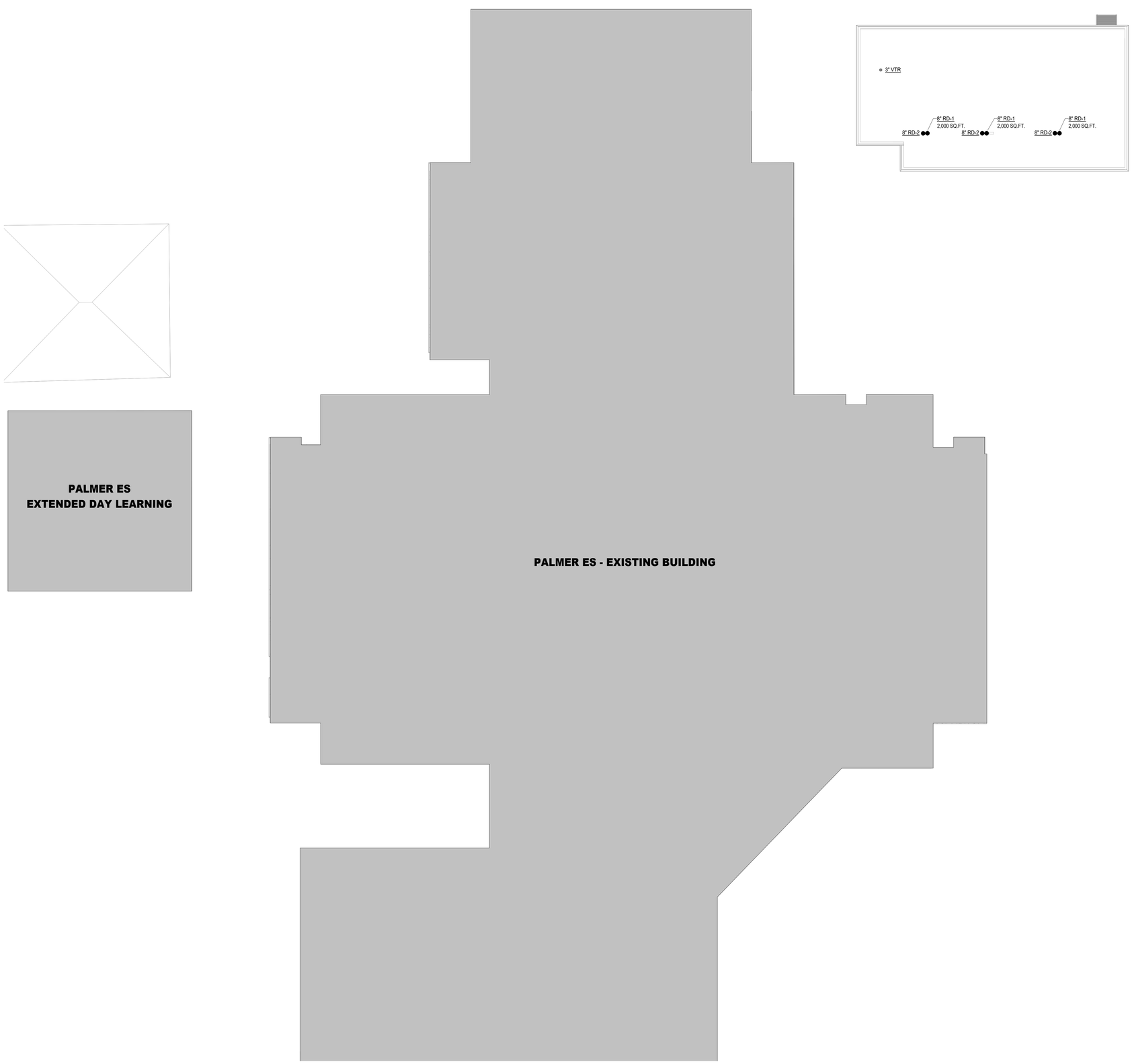
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLUMBING ENLARGED PLAN - LEVEL1 - EXTENDED DAY LEARNING

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

P302-PES

ORIGINAL SHEET - ARCH E1



1 **PLUMBING ROOF PLAN**
Scale: 1/16" = 1'-0"

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLUMBING ROOF PLAN

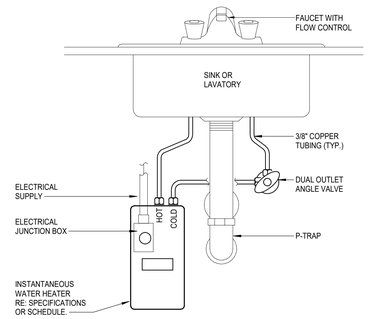
Project No.	Scale
214001246	1/16" = 1'-0"

Revision | Drawing No.

P401-PES

ORIGINAL SHEET - ARCH E1

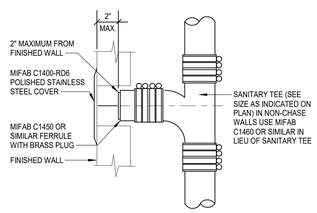
PHW02 - 09/10/18



INSTANTANEOUS ELECTRIC WATER HEATER PIPING FOR SINK OR LAVATORY

16 SCALE: NONE

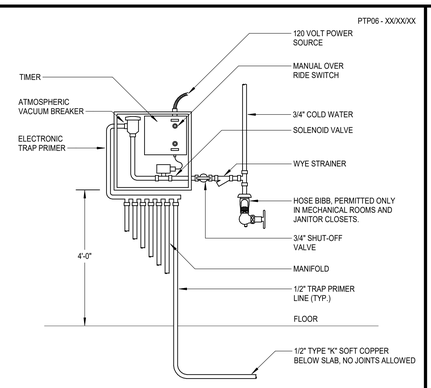
PSAN03- XX/XX/XX



WALL CLEANOUT

12 SCALE: NONE

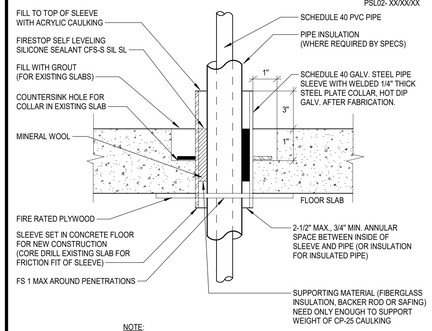
PTP06 - XX/XX/XX



ELECTRONIC TRAP PRIMER

8 SCALE: NONE

PSL02- XX/XX/XX

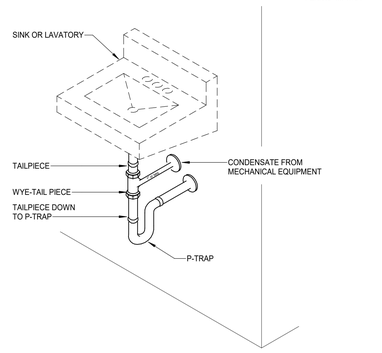


NOTE:
UL APPROVED PIPING ASSEMBLIES EQUAL TO UL SYSTEM # FOR UNINSULATED PIPE AND SYSTEM # FOR INSULATED PIPE

INTERIOR FLOOR PENETRATION

4 SCALE: NONE

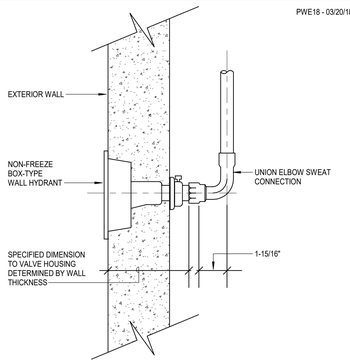
PSAN12- 05/16/24



WYE-TAILPIECE CONDENSATE CONNECTION

19 SCALE: NONE

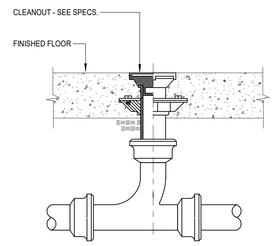
PWE18 - 03/20/18



NON-FREEZE WALL HYDRANT CONNECTION

15 SCALE: NONE

PSAN01- XX/XX/XX

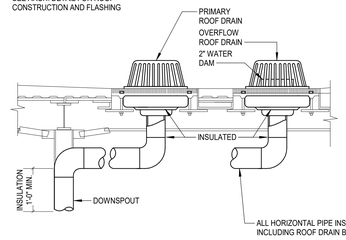


FLOOR CLEANOUT

11 SCALE: NONE

PST02 - 10/29/20

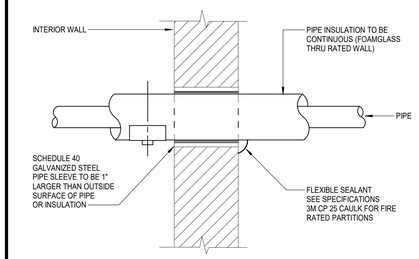
NOTE:
SEE ARCH. DETAIL FOR ROOF CONSTRUCTION AND FLASHING



STORM DRAIN INSULATION

7 SCALE: NONE

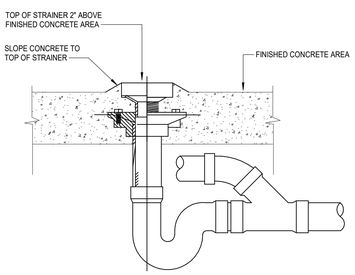
PSL01- XX/XX/XX



INTERIOR WALL PENETRATION

3 SCALE: NONE

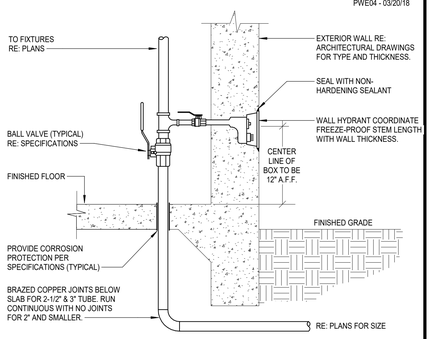
PCON04 - XX/XX/XX



OUTDOOR CONDENSATE DRAIN

18 SCALE: NONE

PWE04 - 03/20/18

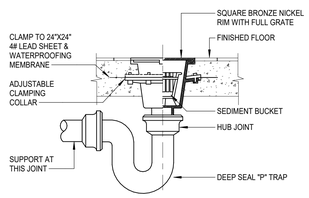


DESIGNER NOTE: USE FOR 2-1/2" AND LARGER WATER ENTRIES BELOW SLAB

DOMESTIC WATER ENTRY

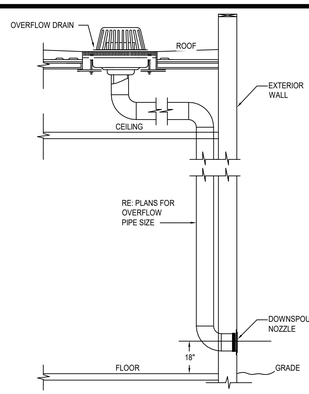
14 SCALE: NONE

PSAN08- XX/XX/XX



FLOOR SINK

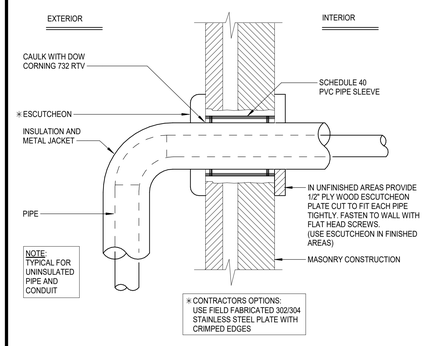
10 SCALE: NONE



DOWNSPOUT NOZZLE

6 SCALE: NONE

PSL03- XX/XX/XX



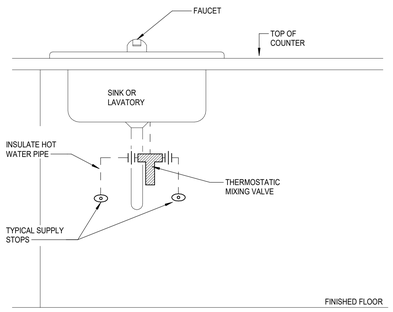
NOTE:
TYPICAL FOR UNINSULATED PIPE AND CONDUIT

* CONTRACTORS OPTIONS: USE FIELD FABRICATED 302/304 STAINLESS STEEL PLATE WITH CRIMPED EDGES

EXTERIOR WALL PENETRATION

2 SCALE: NONE

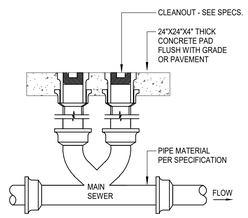
PHW04 - 08/10/20



THERMOSTATIC MIXING VALVE AT SINK/LAVATORY SINGLE TEMPERATURE

17 SCALE: NONE

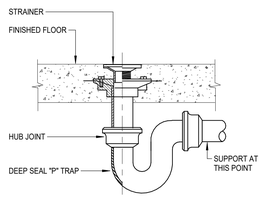
PSAN05- XX/XX/XX



TWO-WAY EXTERIOR CLEANOUT

13 SCALE: NONE

PSAN07- XX/XX/XX

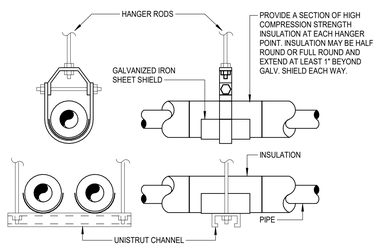


FLOOR DRAIN

9 SCALE: NONE

PP01 - XX/XX/XX

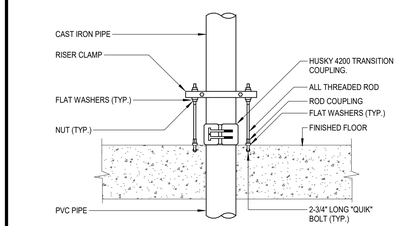
MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GAUGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	18
6"	18	16



PIPE SHIELDS FOR INSULATED PIPING

5 SCALE: NONE

PSAN12- 05/16/24



NOTE:
1. MAKE CONNECTION FROM PVC BELOW SLAB TO CAST IRON ABOVE SLAB WITH HUSKY 4200 TRANSITION COUPLING.
2. THERE IS TO BE NO EXPOSED PVC ABOVE SLAB.

CAST IRON TO PVC TRANSITION

1 SCALE: NONE

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Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name:: N/A	AA Dwn.	AA Dsgn.	EH Chkd.	11/27/24 YYYY.MM.DD

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STATE OF TEXAS
BRADLEY KALMANS
80219
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PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLUMBING DETAILS

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

P501-PES

ORIGINAL SHEET - ARCH E1

PLUMBING GENERAL NOTES

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
10. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
12. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
14. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
15. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
16. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

TANKLESS ELECTRIC WATER HEATER SCHEDULE

ITEM NO.	TEMP RISE AT 0.5 GPM (°F)	WATER TEMP MAXIMUM (°F)	STORAGE CAPACITY	ACTIVATION FLOW (GPM)	TOTAL KW INPUT	VOLT/PHASE	MANUFACTURER / COMMENTS
IEWH-1	66	120	NA	0.3	4.9	208V/1PH.	Eemax, AccuMix® AM007240T

NOTES:

1. 30 PSI MINIMUM OPERATING PRESSURE REQUIRED. CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE PRIOR TO PURCHASING AND INSTALLING EQUIPMENT.
2. INSTALL HEATER AND ROUTE PIPING BASED ON MANUFACTURERS RECOMMENDATIONS.
3. UNIT SHALL HAVE REPLACEABLE FILTER IN THE INTEL CONNECTOR.
4. HEATER SHALL BE PROVIDED WITH ASSE 1070 APPROVED INTEGRATED MIXING VALVE TO CONFORM TO UPC 407.3.
5. MOUNTING LOCATION MUST BE LOCATED WITHIN TWO FEET OF FIXTURE.

PLUMBING FIXTURE SCHEDULE

TYPE: WC-1 (T.A.S. COMPLIANT)
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA WITH EVERCLEAN, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. AMERICAN STANDARD "AFWALL" #3351.101
SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. BEMIS #1955SSCT.
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL #111-1.28.
CARRIER: WADE #311 AND #330 SERIES -AM1.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: L-1 (T.A.S. COMPLIANT) METERED - STUDENT - TEMPERED
DESCRIPTION: LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, 4" FAUCET SPREAD. AMERICAN STANDARD "LUCERNE" #0355.012.
FAUCET: CHROME PLATED BRASS DECK MOUNTED, 4" FIXED CENTERS LAVATORY FAUCET WITH COVER PLATE, 4-1/8" SPOUT, AND PUSH BUTTON HANDLE INDEXED "PUSH". SELF CLOSING METERING CARTRIDGE, VANDAL PROOF 0.5 GPM LAMINAR SPRAY. CHICAGO MODEL #857-E280S-665PSHAB.
MIXING VALVE: ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE, LEAD FREE BRONZE BODY, INTEGRAL CHECK VALVES, COMPRESSION FITTINGS, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER THERMOPLASTIC SHUTTLE. LEONARD 170-LF-BRKT. (105 F)
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE #8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE #520-08.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER - TEMPERED OUT. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: EDF-1 (T.A.S. COMPLIANT) - INTERIOR
DESCRIPTION: WALL HUNG, BOTTLE FILLING STATION AND BI-LEVEL VANDAL-RESISTANT COOLER HIGH EFFICIENCY NON-FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50F DRINKING WATER, BASED ON 80F INLET WATER AND 90F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL GREEN COUNTER, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, SANITARY SENSOR ACTIVATED, VANDAL RESISTANT SMARTFLOW BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT. HALSEY TAYLOR #HTHB-HVRGRN8BL-NF. PROVIDE CANE TOUCH APRON IN ALL STAINLESS STEEL ON ALL UNITS MOUNTED WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH. ELKAY APRON #98324C.
P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE #8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE #403-BL.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: FS-1
SERVICE: MECHANICAL ROOM EQUIPMENT CONDENSATE.
DESCRIPTION: CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED ADA GRATE. 12" SQUARE FLOOR SINK WITH 8" DEEP DOME BOTTOM STAINER. WHITE ABS SEDIMENT BUCKET. FLASHING CLAMP, NB RIM AND ½ STAINLESS STEEL GRATE, TRAP PRIMER. JAY R SMITH # 3150-C-12-NBSS-P
TRAP PRIMER: SERVED BY ELECTRONIC TRAP PRIMER, REFER TO PLANS.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.

TYPE: FD-1
SERVICE: TOILET ROOMS AND GENERAL USE
DESCRIPTION: FLOOR DRAIN, DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD WITH ADA GRATE. 6" ROUND TOP, NICKLE BRONZE STRAINER WITH STAINLESS STEEL GRATE, TRAP PRIMER CONNECTION 1/2", WITH VANDAL PROOF SCREWS. JAY R SMITH #2005-A06NBSS-P050-U
TRAP PRIMER: SERVED BY ELECTRONIC TRAP PRIMER, REFER TO PLANS.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

TYPE: TP-1 (FLUSH MOUNT)
SERVICE: E104, E105, AND MECH YARD 18.
DESCRIPTION: ELECTRONIC TRAP PRIMER WITH FLUSH MOUNT CABINET AND STAINLESS STEEL ACCESS DOOR, SOLENOID VALVE, 1/2" COMPRESSION FITTING ATMOSPHERIC VACUUM BREAKER, CIRCUIT BREAKER, AND TIMER. 120V. PRECISION PLUMBING PRODUCTS "PRIME-TIME" #PT-4.
ROUGH-IN: 3/4" COLD WATER.

TYPE: RD-1
DESCRIPTION: ROOF DRAIN, DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ALUMINUM DOME. SUMP RECEIVER AND UNDERDECK CLAMP. JAY R SMITH # 1010-AD-R-C FOR 8" AND SMALLER. #1010-20" DIA-AD-R-C FOR 10" AND LARGER
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: RD-2
DESCRIPTION: OVERFLOW ROOF DRAIN. DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH ALUMINUM DOME, AND CAST IRON WATER DAM. SUMP RECEIVER, UNDERDECK CLAMP. JAY R SMITH # 1080-AD-R-C FOR 8" AND SMALLER OUTLET. # 1080-20" DIA-AD-R-C FOR 10" AND LARGER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: DN-1
DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE WITH HINGED PERFORATED COVER. VANDAL PROOF. FABRICATED STAINLESS STEEL WITH NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. JAY R SMITH : 1775 - U
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: WH-1 - COLD WATER - NON FREEZ
DESCRIPTION: ENCASED, LEAD-FREE, NON-FREEZ WALL HYDRANT. INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, COPPER CASING, ALL-BRONZE INTERIOR COMPONENTS WITH 1/2 TURN CERAMIC CARTRIDGE, COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION. 304 SS HOUSING WITH LOCKING HINGED. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE #8701-L6.
ROUGH-IN: 3/4" COLD WATER.

TYPE: WH-2 - COLD WATER - RESTROOMS
DESCRIPTION: ENCASED, LEAD-FREE, INTERIOR WALL HYDRANT. INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, COPPER CASING, ALL-BRONZE INTERIOR COMPONENTS WITH 1/2 TURN CERAMIC CARTRIDGE, COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION. 304 SS FLANGED BOX WITH LOCKING HINGED COVER. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE #8708
ROUGH-IN: 3/4" COLD WATER.

TYPE: WCO
DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK BRONZE PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE #6550-75 WITH #8304-VP. PROVIDE WADE #8560 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.

TYPE: FCO
DESCRIPTION: FLOOR CLEANOUT, PAINTED CAST IRON ADJUSTABLE FLOOR CLEANOUT WITH ABS THREADED ADJUSTABLE HOUSINGS, FLANGED CAST IRON FERRULE, INTEGRAL CLAMPING COLLAR, GASKETED ABS THREADED PLUG AND SCORIATED STAINLESS STEEL TOP. WADE #6000-85. FOR CARPETED FLOORS PROVIDE WADE #6000-85-CM. FOR TERRAZO TILES #6000-85-U, FOR RECESSED TILE #6000-85-T. FOR VCT TILES COORDINATE WITH MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

TYPE: ECO
DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, PAINTED CAST IRON BODY WITH ANCHOR FLANGE ADJUSTABLE TOP ASSEMBLY, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE #6000-Z.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSTATE DRAIN PIPING (CD)
D	CONDENSTATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
CDW	CHILLED DRINKING WATER PIPING (CDW)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
SV	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
PRV	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
AP1	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00"	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1 4" VTR	RISER FLAG

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Notes

Revision	By	Appd	YYYY.MM.DD

100% ISSUE FOR BID AND PERMIT			2025.09.24
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
PLUMBING LEGENDS AND SCHEDULES

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

P601-PES

ORIGINAL SHEET - ARCH E1

AUDIO/VISUAL MULTIMEDIA LEGEND

SYMBOL	DESCRIPTION
A##> V##>	WALL AV ROUGH-IN DETAIL
A## V##	CEILING AV ROUGH-IN DETAIL
A## V##	FLOOR AV ROUGH-IN DETAIL
IWB| |IWB	INTERACTIVE WHITE BOARD - WALL - CEILING
PJ| |PJ	MULTIMEDIA PROJECTOR
FP# |FP#	MULTIMEDIA FLAT PANEL DISPLAY
S S	LOUDSPEAKER, WALL MOUNTED AND CEILING MOUNTED RESPECTIVELY - # INDICATES TYPE
CP#	CONTROL PANEL
TP#	TOUCH PANEL
M	MICROPHONE, CEILING MOUNTED - # INDICATES TYPE
VC ▷	VOLUME CONTROL
WB	WALL BOX ENCLOSURE
D1 A1	D1 = DIGITAL SINGLE SIDED CLOCK / A1 = ANALOG SINGLE SIDED CLOCK
D2 A2	D2 = DIGITAL DOUBLE SIDED CLOCK / A2 = ANALOG DOUBLE SIDED CLOCK
ENC	CEILING AV ENCLOSURE
C C	PRESENTATION CAMERA - CEILING - WALL MOUNTED

PREMISE SECURITY LEGEND

SYMBOL	DESCRIPTION
CR	CARD READER
CR M	CARD READER MULLION
KP	INTRUSION DETECTION KEYPAD
IC	INTERCOM (1 DATA CABLE)
IC MS	INTERCOM MASTER STATION (1 DATA CABLE)
PB	PANIC/DURESS BUTTON
LD	LOCK DOWN BUTTON
MD	MOTION DETECTOR
GB	ACCOUSTICAL GLASS BREAK SENSOR
BM	BIOMETRIC READER
RX	REQUEST TO EXIT - SURFACE PIR
KS	KEY SWITCH
LA	LOCAL ALARM SOUNDER
RG	RED/GREEN INDICATOR LIGHT
DB	DOORBELL
DH	MAGNETIC DOOR HOLD
DR	DOOR RELEASE
RX	REQUEST TO EXIT - INTEGRAL TO DOOR HARDWARE
DC	DOOR CONTACT / MONITOR
ES EL EH	ELECTRIFIED STRIKE - ELECTRIFIED LATCH - ELECTRIFIED HARDWARE (REFER TO SCHEDULES)
C C	STANDARD IP SURVEILLANCE CAMERA, (1) CABLE
C C C	180° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° FISHEYE LENS CAMERA
IR	IR ILLUMINATOR

STRUCTURED CABLING LEGEND

SYMBOL	DESCRIPTION
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF DATA CABLE(S)/JACK(S)
##	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S)
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S), SURFACE MOUNT
##	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S), SURFACE MOUNT
W	WALL MOUNT PHONE (1 CABLE/JACK)
W	WALL MOUNT PHONE, SURFACE MOUNT (1 CABLE/JACK)
#	FLOOR MOUNTED OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
##	FLOOR MOUNTED OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#	CEILING MOUNTED DATA OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S)
AP#	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
AP#>	WALL MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
	CABLING SLEEVE(S)
	TYPICAL LADDER RACK
	TYPICAL CABLE TRAY, BASKET STYLE

GENERAL ANNOTATION LEGEND

SYMBOL	DESCRIPTION
MER	MAIN EQUIPMENT ROOM
TR	TELECOMMUNICATION ROOM
MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
ETR	EXISTING TO REMAIN
PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
PSC	PREMISE SECURITY CONTRACTOR
SCC	STRUCTURAL CABLING CONTRACTOR
AVC	AV/MULTIMEDIA CONTRACTOR
UNO	UNLESS NOTED OTHERWISE
ACS	ACCESS CONTROL SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM

TECHNOLOGY SHEET INDEX

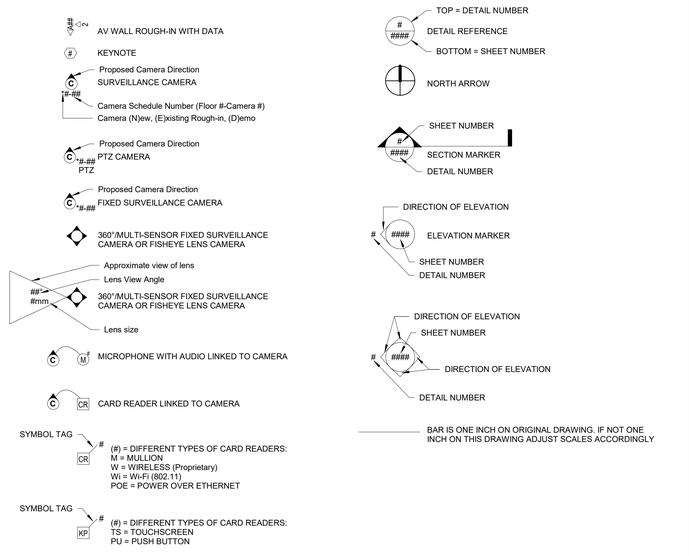
SHEET NUMBER	SHEET NAME
T000 - PES	TECHNOLOGY - INDEX SHEET
T010 - PES	TECHNOLOGY - SITE PLAN
T101 - PES	TECHNOLOGY - GYM

TECHNOLOGY - GENERAL NOTES

1. EACH KEYNOTE MAY NOT BE UTILIZED ON EVERY SHEET.
2. ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
3. ALL CABLES SHALL BE CONCEALED.
4. EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 2" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL COMPLY WITH NEC.
5. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL REVIEW CONDITIONS AND COORDINATE WITH OTHER TRADES AS NECESSARY FOR EXACT PLACEMENT.

TECHNOLOGY SYMBOLS LEGEND

NOT ALL SYMBOLS ARE USED



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Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author	Designer	Checker 2025.07.23
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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Title

TECHNOLOGY - INDEX SHEET

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

T000 - PES

<Pick location in Project Information>
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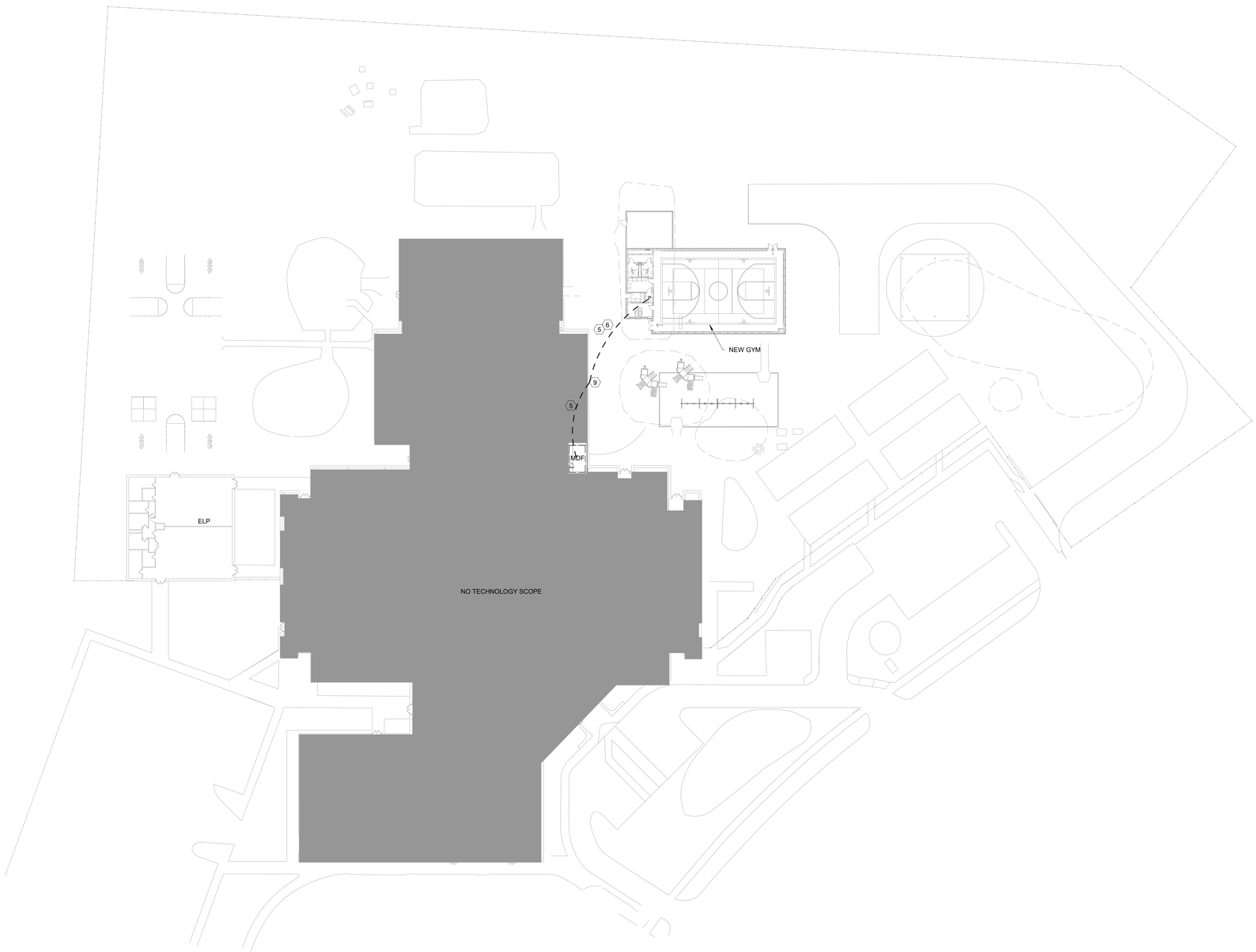
ORIGINAL SHEET - ARCH E1



1 01 - Level 1 - Site Plan
SCALE: 1/32" = 1'-0"

TECHNOLOGY KEYNOTES

1. CONTRACTOR TO PROVIDE AND INSTALL PROTECTIVE WIRE CAGES FOR WIRELESS ANOLOG CLOCKS.
2. NOT USED
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
4. ELECTRICAL CONTRACTOR TO PROVIDE 1" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
5. 12-STRAND MM FIBER FROM MDF TO NEW IDF RACK.
6. TWO (2) UNDERGROUND 4" SCEDULE 80 CONDUITS WITH 3-CELL MAXCELL DETECTABLE INNERDUCT FOR FIBER CONNECTIVITY, AND ONE (1) 1-1/2" UNDERGROUND SCHEDULE 80 CONDUIT WITH PULL STRING FOR INTRUSION SYSTEM. UNDERGROUND CONDUITS SHALL COME THROUGH FOUNDATION/SLAB INSIDE NEW IDF ROOM, AT MIMINUM 4" AFF. AT EXISTING BUILDING, CONDUITS SHOULD EXIT GROUND ADJACENT TO BUILDING, AND BE SECURED TO THE BUILDING, WHERE A LB CONNECTOR WILL ALLOW PATHWAY PENETRATION INTO PLENUM SPACE.
7. INTRUSION EXPANSION PANEL IS TO BE WIRED BACK TO EXISTING INTRUSION SYSTEM IN CAMPUS MAIN BUILDING.
8. LOCATION ON NEW ACCESS CONTROL PANEL.
9. IN-GROUND PULL BOX, MINMUM 24X24X18 FOR FIBER OPTIC AND INTRUSION SYSTEM CONDUITS. (2) 4" CONDUITS WILL NEED TO RUN FROM THE IN-GROUND PULL BOX, AND UP THE EXTERIOR OF THE BUILDING, TO HEIGHT OF PLENUM SPACE. AN LB CONNECTOR SHALL BE USED FOR A PULL-POINT, AND PENETRATION INTO THE BUILDING PLENUM SPACE. EXTERIOR WALL PENETRATION SHALL BE PROPERLY SEALED AGAINST WEATHER/WATER INTRUSION INTO BUILDING.

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Title
TECHNOLOGY - SITE PLAN

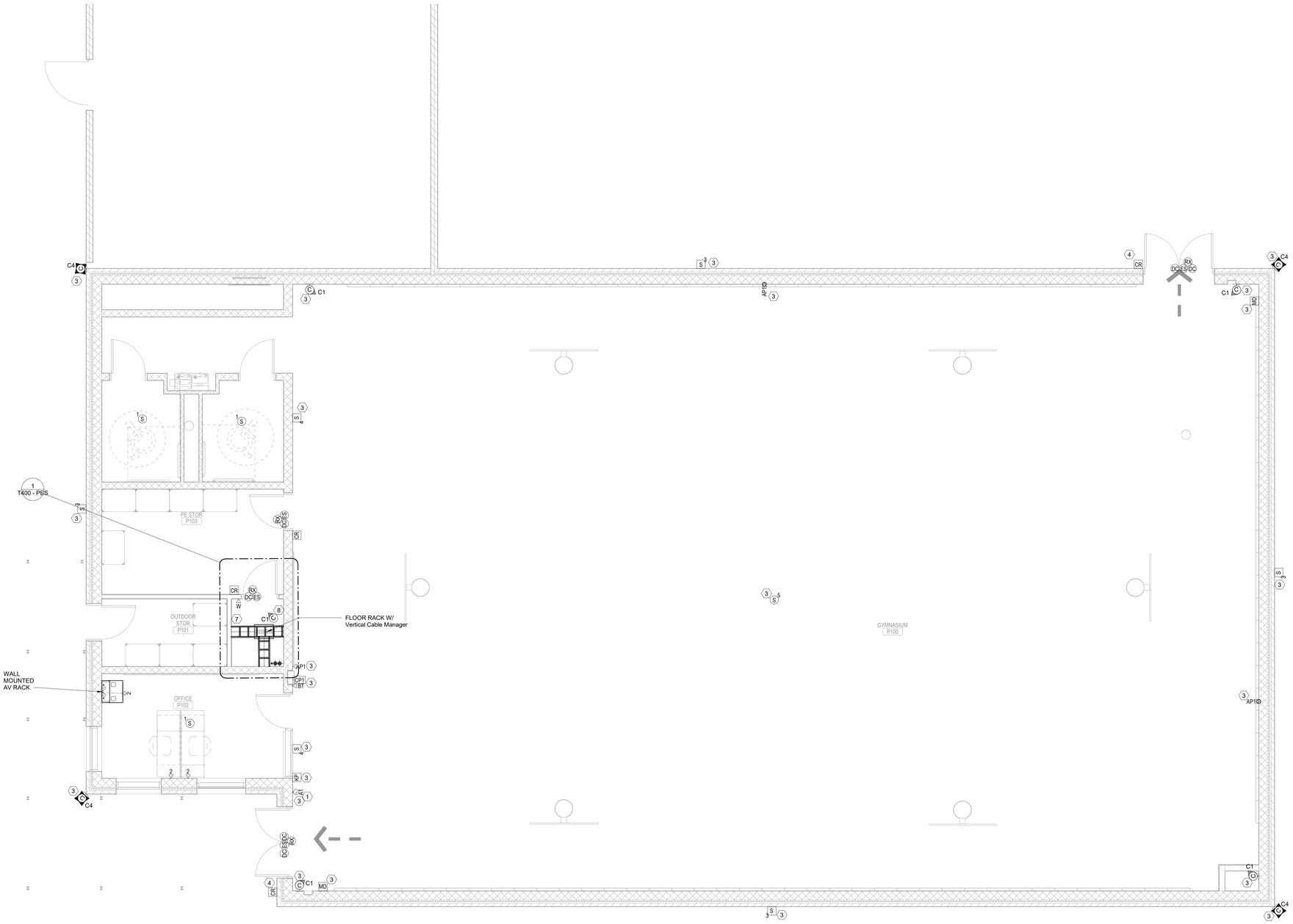
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

T010 - PES

ORIGINAL SHEET - ARCH E1

TECHNOLOGY KEYNOTES

1. CONTRACTOR TO PROVIDE AND INSTALL PROTECTIVE WIRE CAGES FOR WIRELESS ANOLOG CLOCKS.
2. NOT USED
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
4. ELECTRICAL CONTRACTOR TO PROVIDE 1" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
5. 12-STRAND MM FIBER FROM MDF TO NEW IDF RACK.
6. TWO (2) UNDERGROUND 4" SCEDULE 80 CONDUITS WITH 3-CELL MAXCELL DETECTABLE INNERDUCT FOR FIBER CONNECTIVITY, AND ONE (1) 1-1/2" UNDERGROUND SCHEDULE 80 CONDUIT WITH PULL STRING FOR INTRUSION SYSTEM. UNDERGROUND CONDUITS SHALL COME THROUGH FOUNDATION/SLAB INSIDE NEW IDF ROOM, AT MIMINUM 4" AFF. AT EXISTING BUILDING, CONDUITS SHOULD EXIT GROUND ADJACENT TO BUILDING, AND BE SECURED TO THE BUILDING, WHERE A LB CONNECTOR WILL ALLOW PATHWAY PENETRATION INTO PLENUM SPACE.
7. INTRUSION EXPANSION PANEL IS TO BE WIRED BACK TO EXISTING INTRUSION SYSTEM IN CAMPUS MAIN BUILDING.
8. LOCATION ON NEW ACCESS CONTROL PANEL.
9. IN-GROUND PULL BOX, MINMUM 24X24X18 FOR FIBER OPTIC AND INTRUSION SYSTEM CONDUITS. (2) 4" CONDUITS WILL NEED TO RUN FROM THE IN-GROUND PULL BOX, AND UP THE EXTERIOR OF THE BUILDING, TO HEIGHT OF PLENUM SPACE. AN LB CONNECTOR SHALL BE USED FOR A PULL-POINT, AND PENETRATION INTO THE BUILDING PLENUM SPACE. EXTERIOR WALL PENETRATION SHALL BE PROPERLY SEALED AGAINST WEATHER/WATER INTRUSION INTO BUILDING.



1 01 - GYM
SCALE: 1/4" = 1'-0"

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Title
TECHNOLOGY - GYM

Project No. 214001246
Scale As indicated
Revision
Drawing No.

T101 - PES

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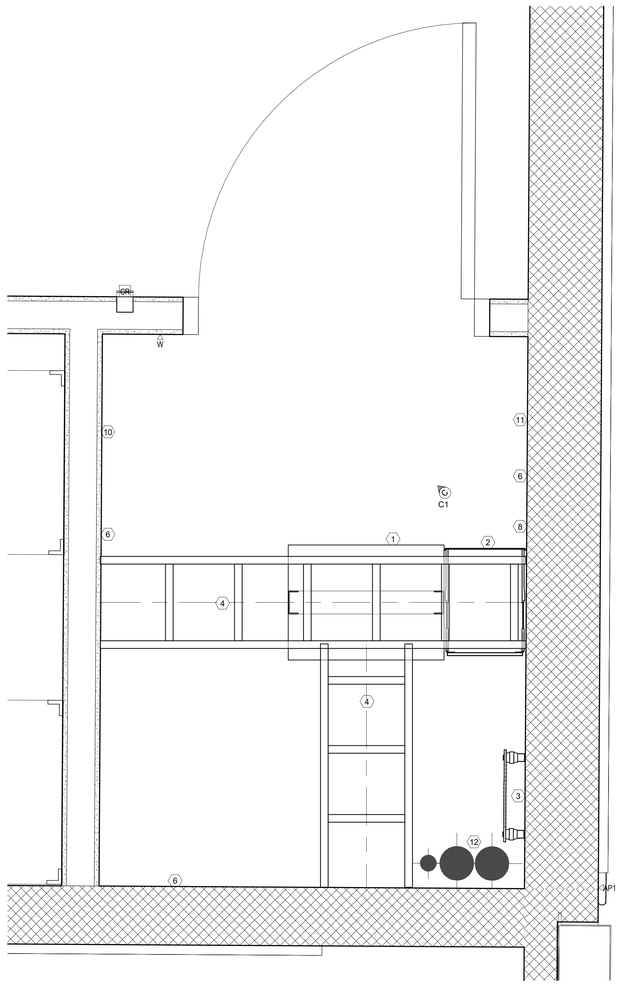
ORIGINAL SHEET - ARCH E1



1 01 - Level 1 - Gym IDF
SCALE: 1 1/2" = 1'-0"

ENLARGEMENT KEYNOTES

1. 2-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
2. 10" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
3. GROUND BUS BAR, MOUNTED 6' AFF, ELECTRON PLATED AND PREDRILLED TO ACCEPT STANDARD TWO-HOLE LUGS.
4. 18"x2" LADDER RACK SECURED TO TOP OF RACK WITH LADDER RACK MOUNTING PLATE AND BOLTED TO WALL, WITH WATER FALLS INTO VERTICAL WIRE MANAGERS (TYPICAL)
5. 12"x4" CABLE TRAY (BASKET STYLE) WITH 6" CLEARANCE FROM WALL (TYPICAL)
6. 3/4" FIRED RATED PLYWOOD SECURED TO WALL AT 22" AFF. IF THE PLYWOOD IS PAINTED, THE PAINT SHALL BE FIRE RETARDANT PAINT ON BOTH SIDES AND THE RATING STAMP ON THE PLYWOOD SHALL BE EXPOSED.
7. SPACE RESERVED FOR FLOOR SUPPORTED AIR CONDITIONER UNIT.
8. SPACE RESERVED FOR PA SYSTEM EXPANSION.
9. FIRESTOP SLEEVES, STI EZPATH OR HILTI SPEED SLEEVES.
10. SPACE RESERVED FOR ACCESS CONTROL PANEL.
11. SPACE RESERVED FOR INTRUSION PANELS.
12. UNDERGROUND CONDUIT STUB-UPS FOR COMMUNICATIONS.

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Title
TECHNOLOGY - ENLARGEMENTS

Project No. 214001246
Scale As indicated
Revision
Drawing No.

T400 - PES

Plot location in Project Information
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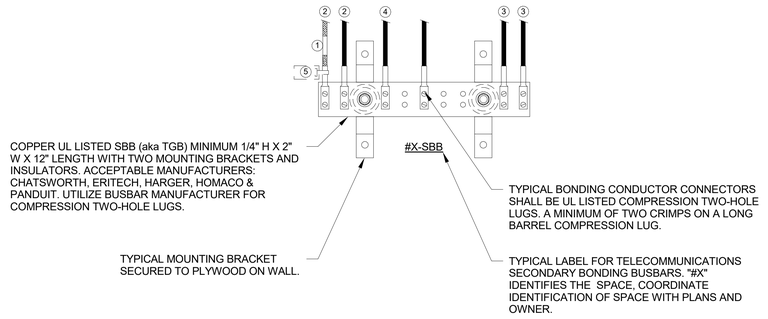
ORIGINAL SHEET - ARCH E1

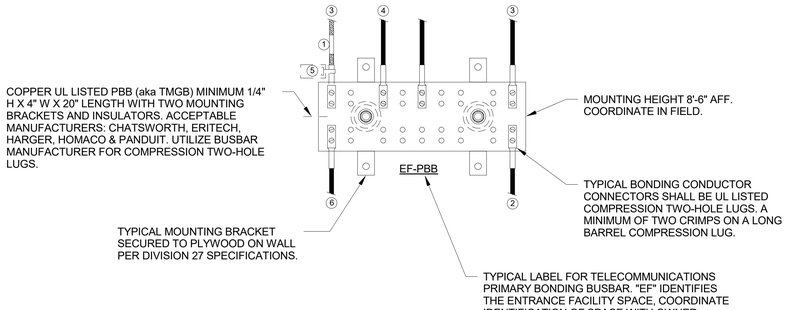


SBB GROUNDING & BONDING NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF TBC AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A TBC TO A COMPRESSION LUGTAP TO DEDICATED HOME RUN BACK TO THE SBB. SEE DETAILS.
3. TYPICAL TBB(S) THAT INTERCONNECTS ALL IDF SBB(S) WITH THE PBB.
4. BONDING CONDUCTOR TO EACH ARMORED FIBER JACKET. IDF SIDE ONLY.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0



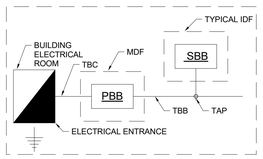
PBB GROUNDING & BONDING RISER NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE UTILIZED EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB) FOR BACKBONE BONDING CONDUCTOR (BBC), IF APPLICABLE.
4. TYPICAL TBB(S) THAT INTERCONNECTS ALL SBB(S) WITH THE PBB.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (TBC) TO BUILDING GROUNDING ELECTRODE. TBC SHALL NOT BE SMALLER THEN THE TBB.

GROUNDING & BONDING GENERAL NOTES

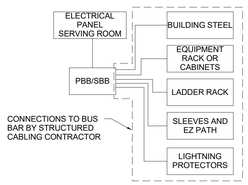
1. ELECTRICAL CONTRACTOR RESPONSIBILITY -PRIMARY BONDING BUSBAR (PBB), SECONDARY BONDING BUSBAR(S) (SBB), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE. BUILDING STRUCTURAL STEEL, AND BONDING OF ALL SBB(S) TO THE PBB SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL GROUNDING OF OF EQUIPMENT, RACKS, CABINETS, AND DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 27 TECHNOLOGY CONTRACTOR.
3. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
4. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED. WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-C.
5. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. STRUCTURED CABLING CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   - A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   - B. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
   - C. EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT .

1 GROUNDING AND BONDING DETAIL
SCALE: NS

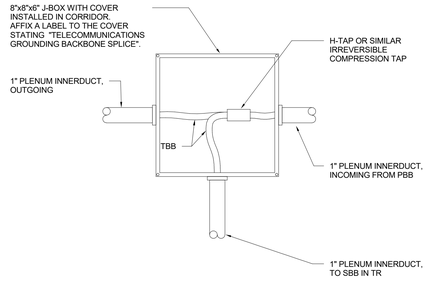


NOTES:
BBC = BACKBONE BONDING CONDUCTOR
BN = BONDING NETWORK
CBB = COMMON BONDING BUSBAR
CTBB = COMMON TELECOMMUNICATIONS BONDING BACKBONE
IDF = INDEPENDENT DISTRIBUTION FRAME
MDF = MAIN DISTRIBUTION FRAME
PBB = PRIMARY BONDING BUSBAR
RBB = RACK BONDING BUSBAR
RBC = RACK BONDING CONDUCTOR
SBB = SECONDARY BONDING BUSBAR
SBC = SECONDARY BONDING CONDUCTOR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
TBC = TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

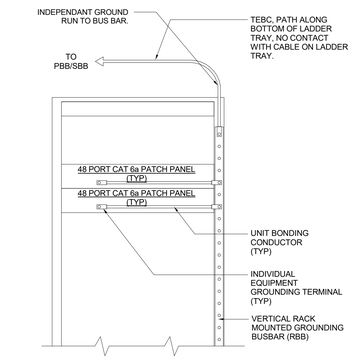
2 TYPICAL GROUNDING FLOW DIAGRAM
SCALE: NS



3 TELECOM ROOM BONDING DIAGRAM
SCALE: NS



4 TELECOM BONDING BACKBONE SPLICE DETAIL
SCALE: NS



5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

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100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

Permit/Seal

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Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TECHNOLOGY - DETAILS

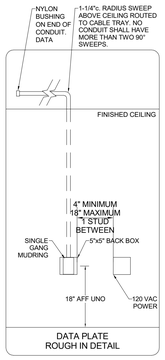
Project No. 214001246
Scale
Revision
Drawing No.

T501 - PES

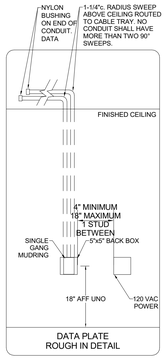
<Pick location in Project Information>
1/22/2025 8:48:11 PM
ORIGINAL SHEET - ARCH E1

GENERAL NOTE

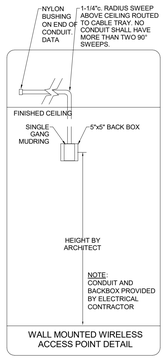
1. FACE PLATE DETAIL FOR OUTLET CONFIGURATION PURPOSES ONLY. CONTRACTOR TO SELECT TYPE OF FACE PLATE TO MATCH CONNECTIVITY HARDWARE, FLOOR BOX AND/OR MODULAR FURNITURE OPENING.



DATA PLATE
ROUGH IN DETAIL

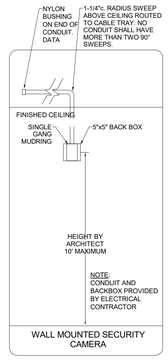


DATA PLATE
ROUGH IN DETAIL

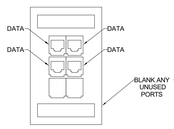


WALL MOUNTED WIRELESS
ACCESS POINT DETAIL

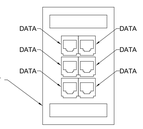
CEILING MOUNTED SECURITY
CAMERA / WIRELESS ACCESS
POINT DETAIL



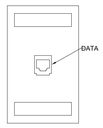
WALL MOUNTED SECURITY
CAMERA



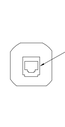
DATA
WALL PLATE



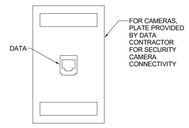
DATA
WALL PLATE



WALL WIRELESS ACCESS
POINT PLATE

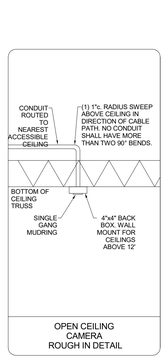


CEILING WIRELESS ACCESS
POINT PLATE

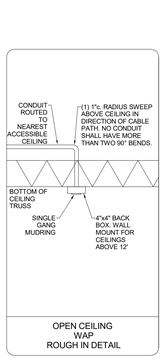


WALL CAMERA / WIRELESS
ACCESS POINT/ CMU DATA
PLATE

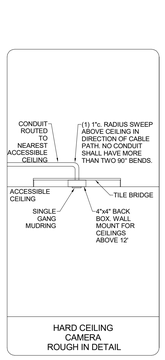
1 DATA ROUGH-IN DETAILS
SCALE: NS



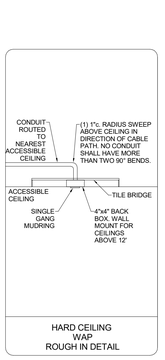
OPEN CEILING
CAMERA
ROUGH IN DETAIL



OPEN CEILING
WAP
ROUGH IN DETAIL

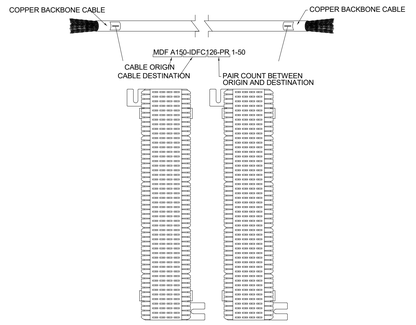


HARD CEILING
CAMERA
ROUGH IN DETAIL



HARD CEILING
WAP
ROUGH IN DETAIL

2 HARD AND OPEN CEILING DETAILS FOR CAMERAS AND DATA OUTLETS
SCALE: NTS

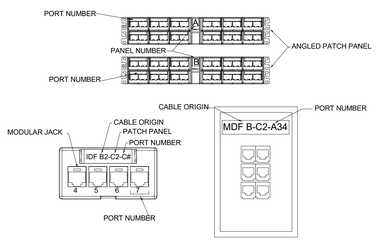


NOTE: 1) PA CONTRACTOR SHALL ENSURE THAT CABLE AND 66 BLOCK SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

PA SYSTEM COPPER BACKBONE LABELING SCHEME

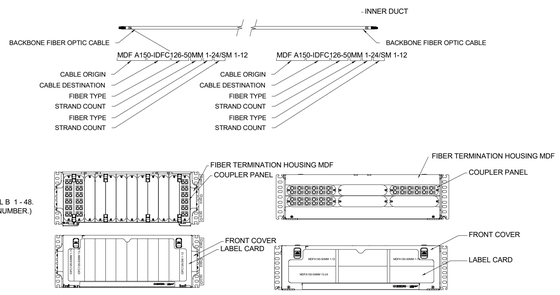
NOTE: 1) FOR DATA JACKS LOCATED ABOVE CEILING (WAP, CAMERA, ETC.)
2) 3/4" SELF-LAMINATING LABEL, WHITE BACKGROUND, BLACK TEXT
3) TEXT IN PLAIN FONT (NO ITALICS, BOLD OR UNDERLINE) TEXT CENTERED IN LABEL. TEXT HEIGHT NOT TO EXCEED 66% OF LABEL HEIGHT.

CEILING GRID LABELING SCHEME



NOTE: 1) CABLE SHALL HAVE IDENTICAL LABEL AT BOTH ENDS
2) EACH PATCH PANEL SHALL BE UNIQUELY LABELED ALPHABETICALLY IN EACH MDF OR IDF
3) EACH PATCH PORT SHALL BE NUMBERED SEQUENTIALLY EX. PATCH PANEL A 1 - 48 , PATCH PANEL B 1 - 48.
4) PRIOR TO LABELING, CONSULT WITH OWNER FOR PROPER IDF NUMBERING. (NO NOT USE ROOM NUMBER.)

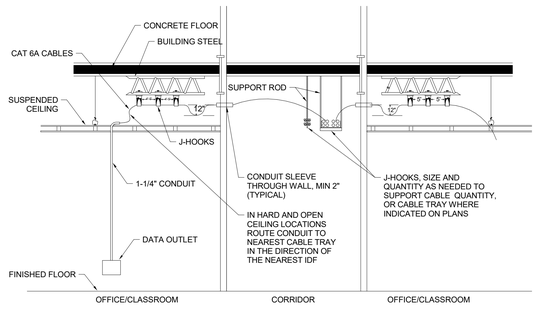
HORIZONTAL DATA CABLE LABELING SCHEME



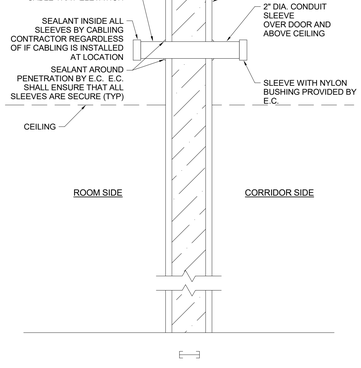
NOTE: 1) CABLE AND INNERDUCT SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

FIBER BACKBONE LABELING SCHEME

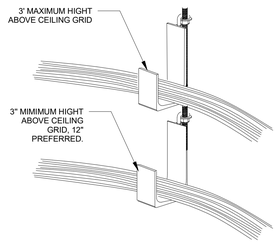
5 LABELING & CABLING SCHEMES
SCALE: NTS



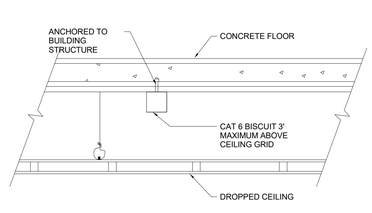
6 CABLE PATHWAY CROSS SECTION
SCALE: NTS



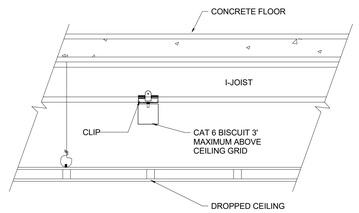
3 TYPICAL CABLING SLEEVE
SCALE: NTS



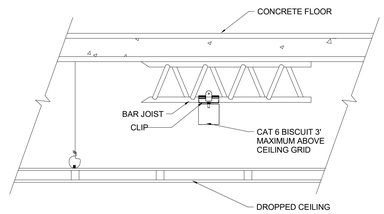
4 PANDUIT J-HOOK DETAIL
SCALE: NTS



7 DROPPED CEILING MOUNTING DETAIL
SCALE: NS



8 I-JOIST MOUNTING DETAIL
SCALE: NS



9 BAR JOIST MOUNTING DETAIL
SCALE: NS

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Revision	By	Appd	YYYY.MM.DD
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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	2025.07.23 YYYY.MM.DD

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Client/Project Logo

Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TECHNOLOGY - DETAILS

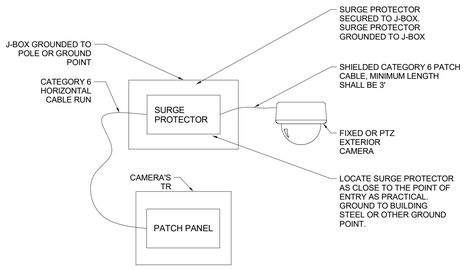
Project No. 214001246
Scale
Revision
Drawing No.

T502 - PES

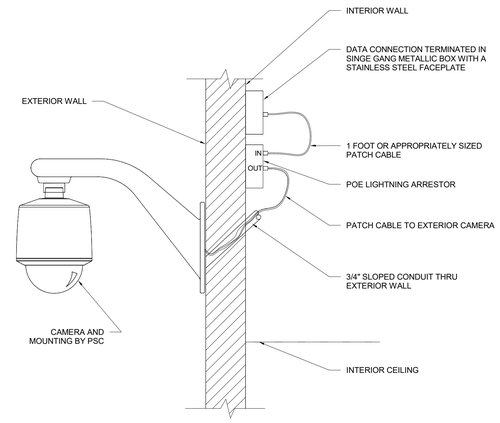
<Pick location in Project Information>
1/22/2025 8:48:17 PM
ORIGINAL SHEET - ARCH E1

GENERAL NOTES:

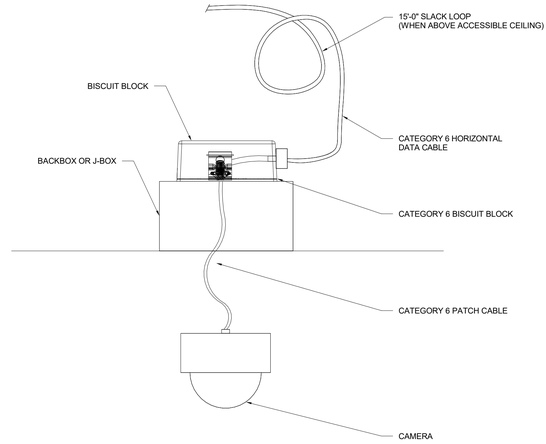
1. REFER TO SECURITY SCHEDULE AND WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX" CAMERAS.



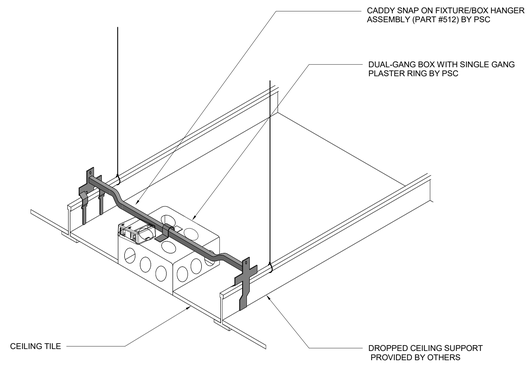
1 CAMERA SIDE SURGE PROTECTOR FOR EXTERIOR CAMERAS
SCALE: NS



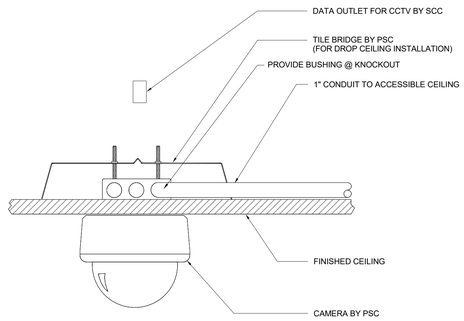
2 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



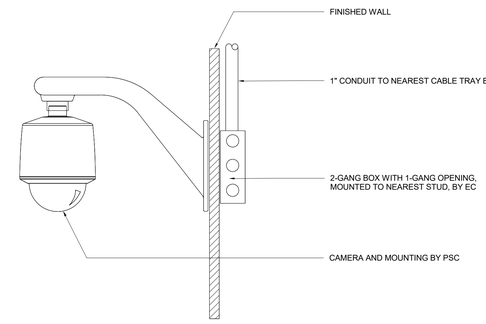
3 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



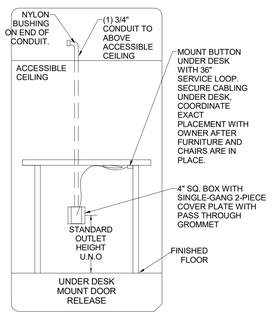
4 TILE BRIDGE DETAIL
SCALE: NS



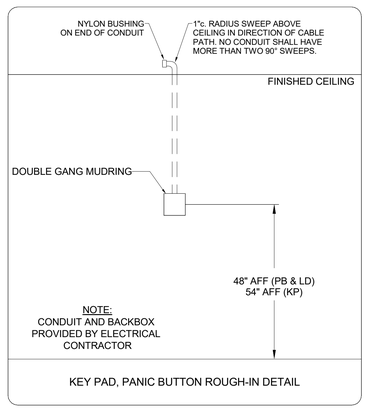
5 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



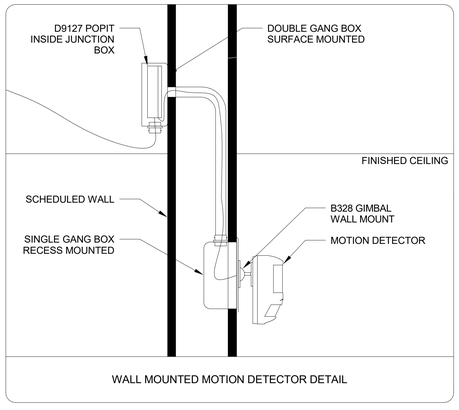
6 WALL MOUNTED CAMERA DETAIL
SCALE: NS



7 UNDER DESK MOUNT DOOR RELEASE BUTTON DETAIL
SCALE: NTS



1 ROUGH-IN DETAILS: KP, PB, LD
SCALE: NTS



2 WALL MOUNTED MD DETAIL
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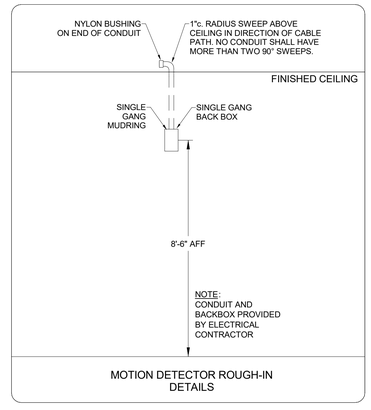

3 IDS WALL-MOUNT MD ROUGH-IN DETAIL
SCALE: NTS

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Client/Project
FORT BEND ISD

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4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TECHNOLOGY - SECURITY DETAILS

Project No. 214001246
Scale
Revision
Drawing No.

T600 - PES

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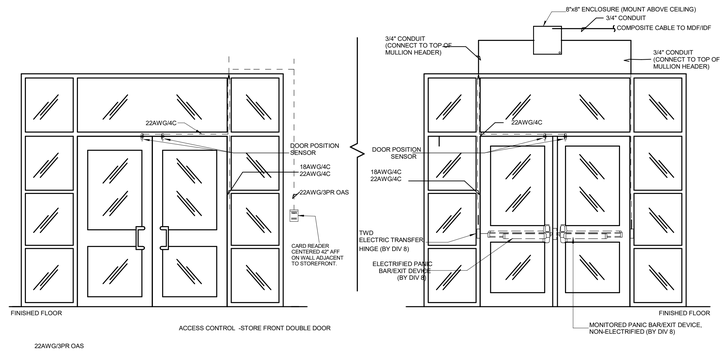
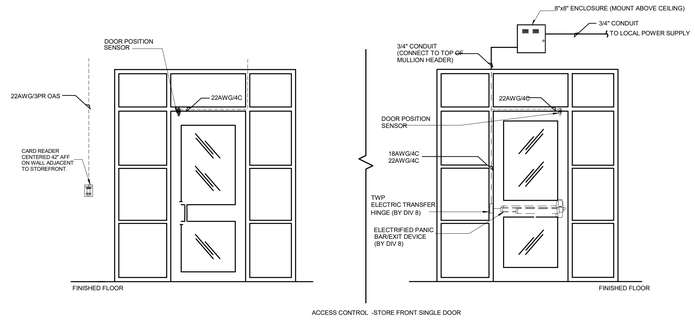
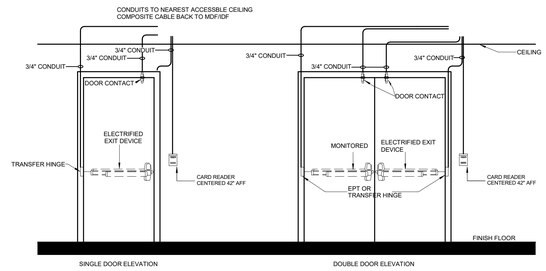
ORIGINAL SHEET - ARCH E1



1 ACCESS CONTROL - STORE FRONT DOUBLE DOOR
SCALE: NTS



2 ACCESS CONTROL - STORE FRONT SINGLE DOOR
SCALE: NTS



3 ACCESS CONTROL - STEEL/HOLLOW METAL DOOR.
SCALE: NTS

4 ACCESS CONTROL - PLAM / INTERIOR DOOR ELEVATION
SCALE: NTS

5 ACCESS CONTROL - WIRING DETAIL - EXIT DEVICE W/ BUILT-IN REX
SCALE: NTS

SHEET GENERAL NOTES:

1. CONDUIT ROUGH-IN IS A GUIDE FOR WHAT WILL BE REQUIRED FOR EACH DOOR. AS DOOR COMPONENTS CHANGE, EXACT CONDUIT LOCATION WILL ALSO NEED TO BE ADJUSTED.
2. CARD READERS SHOWN WITH AN ANNOTATION "M" NEXT TO THE CARD READER ARE TO BE MULLION MOUNTED AND NO CARD READER ROUGH-IN IS REQUIRED.
3. PROTECT EXISTING-TO-REMAIN ACCESS CONTROL DEVICES AND CABLE THROUGHOUT RENOVATION WORK. IF CABLE AND/OR DEVICES ARE DAMAGED, SECURITY CONTRACTOR TO REPLACE WITH NEW.

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Title
TECHNOLOGY - SECURITY DETAILS

Project No. 214001246
Scale
Revision
Drawing No.

T601 - PES

ORIGINAL SHEET - ARCH E1
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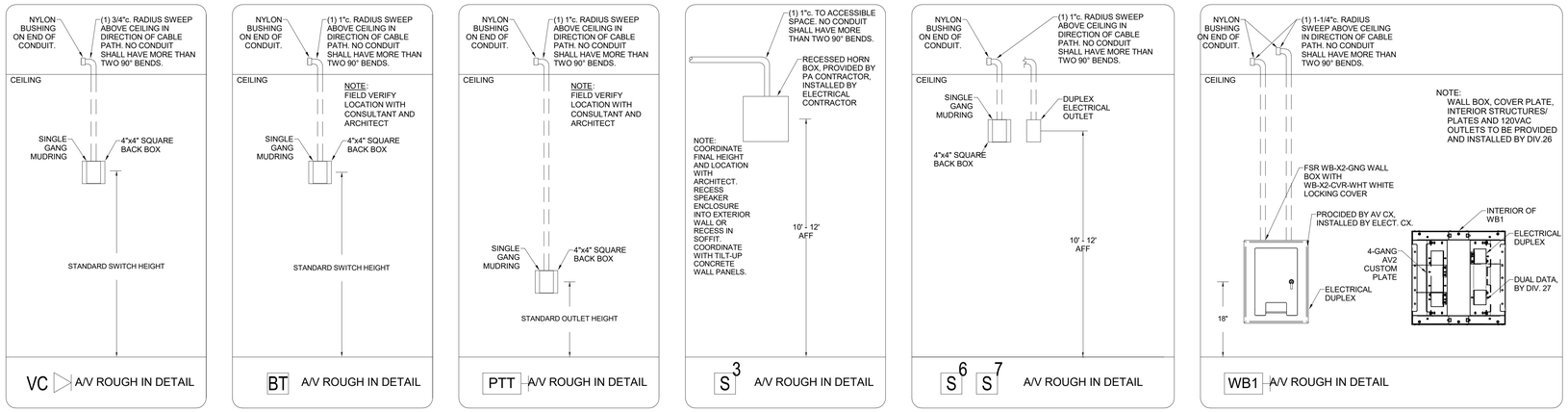
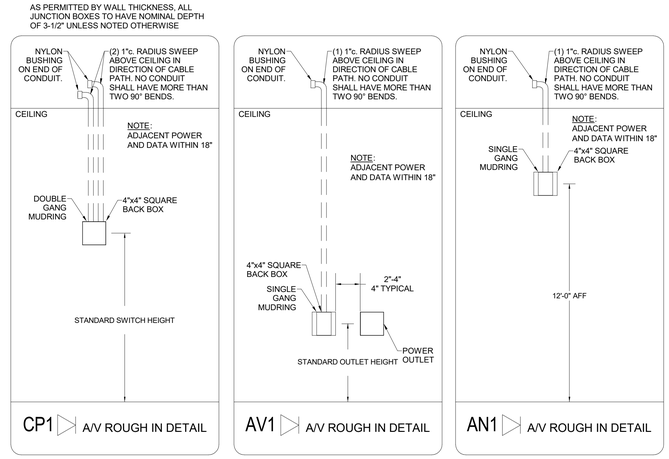
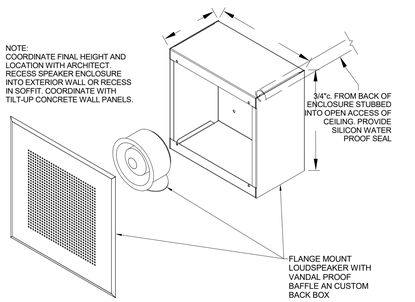


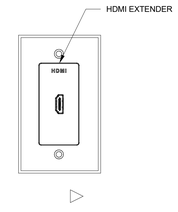
1 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS



2 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
SCALE: NTS



3 OUTSIDE LOUDSPEAKER DETAIL
SCALE: NTS



4 AV1 DETAIL
SCALE: NTS

CAMERA TYPE	MANUFACTURER	MODEL NUMBER	GENERAL DESCRIPTION
C1	PANASONIC (i-PRO)	WV-S2252L* (WV-S22500-V3L)	5MP INTERIOR VANDAL DOME - CORR., COMMON, SPED
C2	PANASONIC (i-PRO)	WV-S2552L* (WV-S25500-V3LN)	5MP EXTERIOR VANDAL DOME
C3	PANASONIC (i-PRO)	WV-S4151* (WV-S4156A)	5MP 360 (FISHEYE) - STAIRWELLS
C4	PANASONIC (i-PRO)	WV-S8531N* (WV-S8544L)	4x2MP EXTERIOR MULTI - BUILDING PERIMETER
C5	PANASONIC (i-PRO)	WV-X8571N* (WV-S8574L)	4x4K (33MP) EXTERIOR MULTI - PARKING LOTS, STADIUM

NOTE: * DENOTES CAMERA MODEL FROM OWNER STANDARDS/TECHNOLOGY GUIDELINES. THESE MODELS HAVE BEEN DISCONTINUED BY THE MANUFACTURER. DIRECT REPLACEMENT MODELS ARE IN ( ) FOLLOWING THE OLDER MODEL CAMERA.

5 Camera Schedule
SCALE: 12" = 1'-0"

	PRODUCT			CONNECTED TO		DIVISION	
Number	Manufacturer	Model	Description	Paging	Program/Local	Provided By	Comments
S1	Lowell	LT2-810-72-BB	2x2 Lay-in tile Speaker	X		27 51 00	Provide 2x2 Grille with speaker (If specified in hard ceiling, replace S1 with S2).
S2	Lowell	810-72	8in Ceiling Speaker	X		27 51 00	Provide Grille and Back Box in Hard Ceiling Areas (If specified in lay-in ceiling, replace S2 with S1).
S3	Lowell	VRG-LUH15TX	Vandal and Weather Resistant 15W Horn	X		27 51 00	Provide with Back Box (Lowell CB84-SGVPO)
S4	Lowell	DSL-805-72	8" Surface Mount Speakers	X		27 51 00	
S5	Octasound	SP840A	Omnidirectional hanging speaker	X	X	27 41 00	Provide RDL ST-VP2 ducking module for integration w/ PA

6 Speaker Schedule
SCALE: 12" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22

File Name: N/A	Author	Designer	Checker	2025.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
FORT BEND ISD

PALMER ELEMENTARY SCHOOL

4208 CROW VALLEY DR, MISSOURI CITY, TX 77459

Title
TECHNOLOGY - AV DETAILS

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

T700 - PES

ORIGINAL SHEET - ARCH E1
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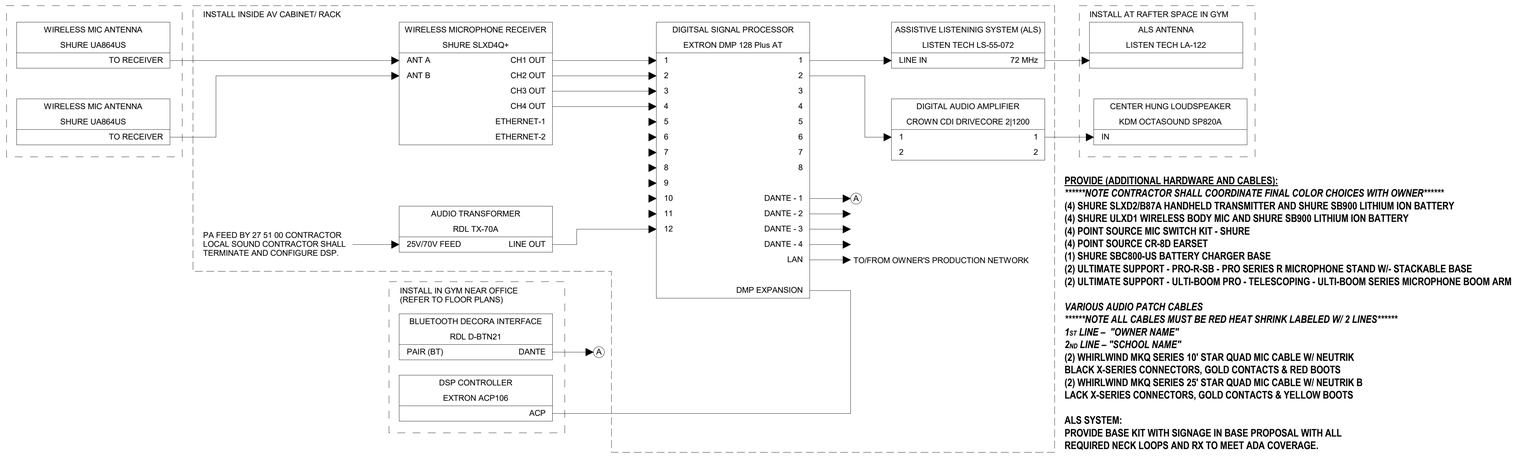
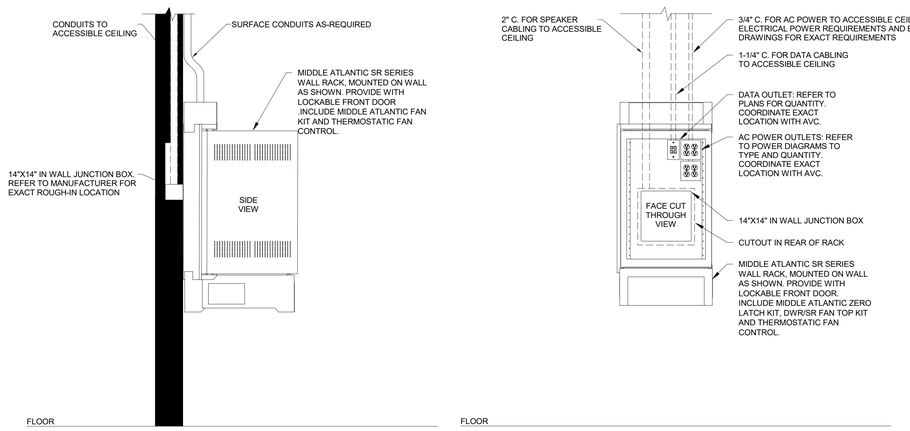


PROVIDE (ADDITIONAL HARDWARE AND CABLES):
*********NOTE CONTRACTOR SHALL COORDINATE FINAL COLOR CHOICES WITH OWNER********
(4) SHURE SLXD2/B87A HANDHELD TRANSMITTER AND SHURE SB900 LITHIUM ION BATTERY
(4) SHURE ULXD1 WIRELESS BODY MIC AND SHURE SB900 LITHIUM ION BATTERY
(4) POINT SOURCE MIC SWITCH KIT - SHURE
(4) POINT SOURCE CR-8D EARSET
(1) SHURE SBC800-US BATTERY CHARGER BASE
(2) ULTIMATE SUPPORT - PRO-R-SB - PRO SERIES R MICROPHONE STAND W/- STACKABLE BASE
(2) ULTIMATE SUPPORT - ULTI-BOOM PRO - TELESCOPING - ULTI-BOOM SERIES MICROPHONE BOOM ARM

VARIOUS AUDIO PATCH CABLES
*********NOTE ALL CABLES MUST BE RED HEAT SHRINK LABELED W/ 2 LINES*********
1ST LINE – "OWNER NAME"
2ND LINE – "SCHOOL NAME"
(2) WHIRLWIND MKQ SERIES 10' STAR QUAD MIC CABLE W/ NEUTRIK
BLACK X-SERIES CONNECTORS, GOLD CONTACTS & RED BOOTS
(2) WHIRLWIND MKQ SERIES 25' STAR QUAD MIC CABLE W/ NEUTRIK B
LACK X-SERIES CONNECTORS, GOLD CONTACTS & YELLOW BOOTS

ALS SYSTEM:
PROVIDE BASE KIT WITH SIGNAGE IN BASE PROPOSAL WITH ALL REQUIRED NECK LOOPS AND RX TO MEET ADA COVERAGE.

1 ELEMENTARY GYM AV SYSTEM SCHEMATIC
SCALE: NTS

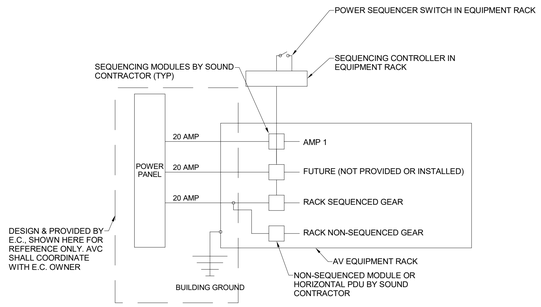


2 MIDDLE ATLANTIC SR SERIES SOUND RACK ROUGH-IN DETAIL
SCALE: NTS

RACK HEADER	
BLANK	ASSISTIVE LISTENING SYSTEM LISTEN TECH
BLANK MIDDLE ATLANTIC VTF1	
POWER SEQUENCER FURMAN CN-2400S W/ (2) CN-20MP	
BLANK MIDDLE ATLANTIC VTF1	
WIRELESS MIC RECEIVER SHURE SLXD4Q+	
BLANK MIDDLE ATLANTIC VTF1	
DIGITAL SIGNAL PROCESSOR (DSP) EXTRON DMP128 AT PLUS	
BLANK MIDDLE ATLANTIC VTF1	
AUDIO POWER AMPLIFIER CROWN CDI DRIVECORE 2|1200	
RACK STORAGE DRAWER MIDDLE ATLANTIC D2LK	

RACK SHALL BE MIDDLE ATLANTIC DWR SERIES WITH LOCKABLE FRONT DOOR. INCLUDE FAN KIT FK-22 AND THERMOSTATIC FAN CONTROL FC-4-1CA.

3 ES GYM AUDIO RACK ELEVATION
SCALE: NTS



4 ELECTRICAL POWER REQUIREMENTS FOR ES GYM AV RACK
SCALE: NTS

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File Name: N/A	Author	Designer	Checker	2025.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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PALMER ELEMENTARY SCHOOL

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Title
TECHNOLOGY - AV DETAILS

Project No.
214001246
Scale
Revision
Drawing No.

T701

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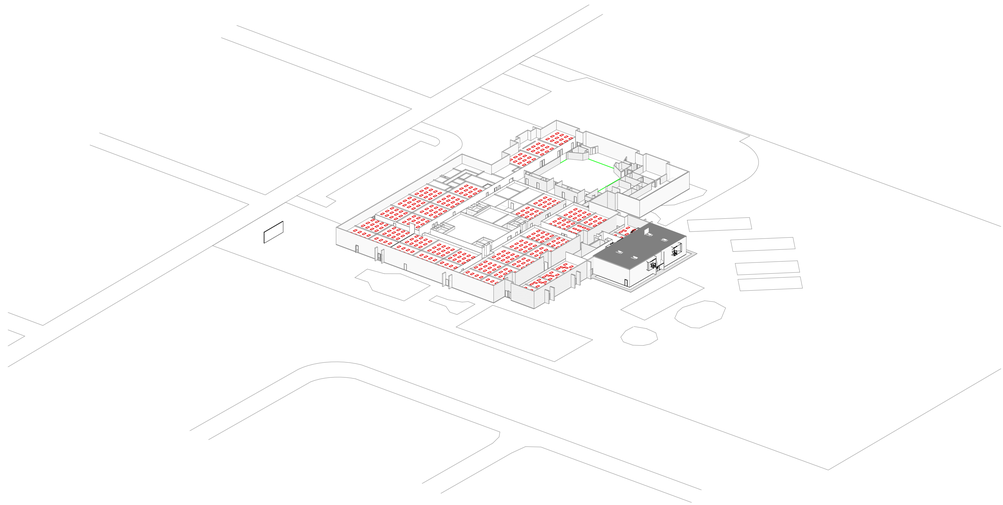
ORIGINAL SHEET - ARCH E1

Stantec

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT



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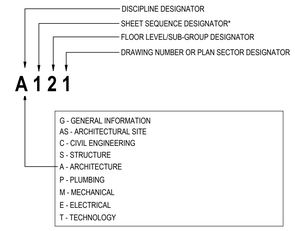
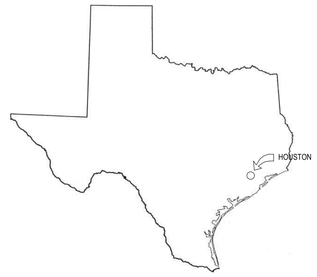


*SHEET SEQUENCE DESIGNATOR - ARCHITECTURE KEY

0 - GENERAL ARCHITECTURAL INFORMATION
~~AS - ARCHITECTURAL SITE~~ AS-ARCHITECTURAL SITE DEMOLITION
AS - ARCHITECTURAL SITE
AD - ARCHITECTURAL DEMOLITION
1 - FLOOR PLAN / ROOF PLAN
2 - ELEVATIONS
3 - EXTERIOR SECTIONS AND DETAILS, INCLUDING ROOF DETAILS; PLAN DETAILS
4 - STAIR, ELEVATOR, TOILET ROOM, AND OTHER ENLARGED PLANS
5 - SCHEDULES
6 - REFLECTED CEILING PLANS
7 - INTERIOR FIT OUT (FINISHES, MILLWORK, AND CASEWORK)
8 - INTERIOR ELEVATIONS AND DETAILS

LOCATION MAP:



VICINITY MAP:

PROJECT TEAM:

OWNER
FORT BEND INDEPENDENT SCHOOL DISTRICT
13600 MURPHY ROAD
STAFFORD, TX 77477
TEL: (281) 634-5560

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HOUSTON, TX 77002
TEL: (713) 548-5700

GENERAL CONTRACTOR
TBD
STREET
CITY, TX ZIP
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CIVIL ENGINEER
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STRUCTURAL ENGINEER
DALLY + ASSOCIATES
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HOUSTON, TEXAS 77042
TEL: (713) 337-8881

MEP ENGINEER
SALAS O'BRIEN
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PEA GROUP
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TECHNOLOGY
TRUENORTH
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

100% ISSUE FOR BID AND PERMIT
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Stantec Project Number: 214001246

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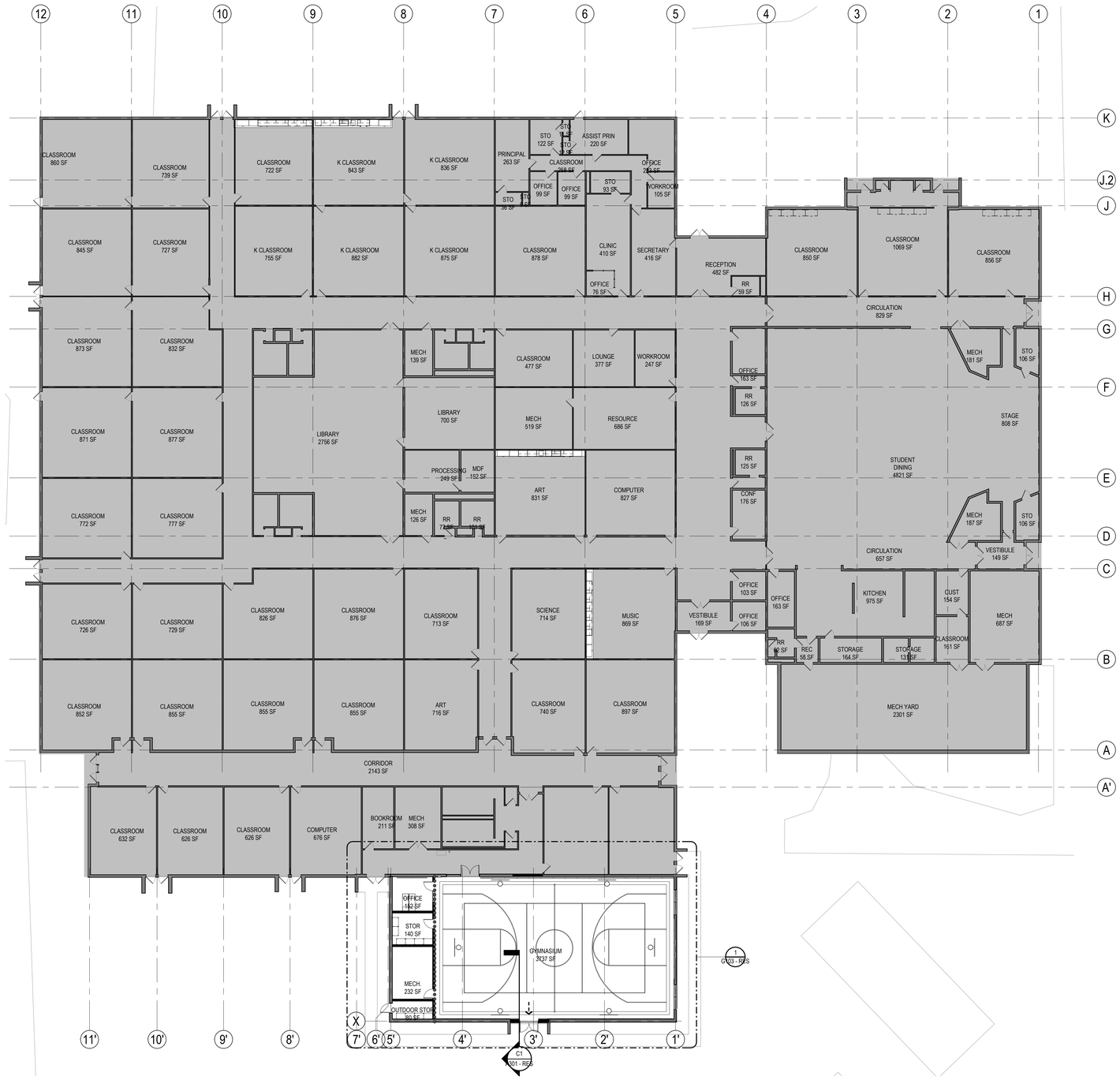
DRAWING LIST

NO.	DRAWING NAME
01 GENERAL	
G001 - RES	PROJECT COVER SHEET & INDEX
G101 - RES	CODE REVIEW
G102 - RES	COMPOSITE LIFE SAFETY PLAN
G103 - RES	ENLARGED GYMNASIUM LIFE SAFETY PLAN
STRUCTURAL	
S101 - RES	GENERAL STRUCTURAL CRITERIA
S102 - RES	GENERAL STRUCTURAL CRITERIA
S201 - RES	FOUNDATION PLAN - COMPOSITE
S201A - RES	FOUNDATION PLAN - EXISTING GYM
S301 - RES	FOUNDATION SCHEDULE & DETAILS
ARCHITECTURAL DEMOLITION	
AD100 - RES	COMPOSITE ARCHITECTURAL DEMOLITION PLAN
AD101 - RES	ENLARGED GYMNASIUM DEMOLITION PLAN
AD601 - RES	CEILING AND LIGHTING DEMOLITION PLAN
ARCHITECTURAL	
A001 - RES	ABBV., MATERIAL LEGEND AND SYMBOLS
A002 - RES	TYPICAL MOUNTING HEIGHTS AND TOILET LAYOUT
A004- RES	WALL SPANS INTERIOR AND WALL TO DECK DETAILS
A009 - RES	INTERIOR PARTITION TYPES, NOTES AND DETAILS
A100 - RES	COMPOSITE FLOOR PLAN
A106 - RES	ENLARGED FLOOR PLAN - GYMNASIUM
A201 - RES	EXTERIOR ELEVATIONS
A300 - RES	WALL & PARTITION TYPES
A301 - RES	WALL SECTIONS & ELEVATIONS
A302 -RES	WALL SECTIONS DETAILS
A501 - RES	DOOR HARDWARE SCHEDULE, FRAME TYPES
A502 - RES	INTERIOR HEAD, JAMB, SILL DETAILS
A600 - RES	REFLECTED CEILING PLAN
A601 - RES	REFLECTED CEILING PLAN - AREA A
A602 - RES	REFLECTED CEILING PLAN - AREA B
A603 - RES	REFLECTED CEILING PLAN - AREA C
A604 - RES	REFLECTED CEILING PLAN - GYMNASIUM
A711 - RES	FURNISHINGS AND EQUIPMENT PLAN - CASEWORK
A712 - RES	CASEWORK ELEVATIONS
A713 - RES	CASEWORK & FEC DETAILS

DRAWING LIST

NO.	DRAWING NAME
A800 - RES	INTERIOR MATERIAL SCHEDULE
A801 - RES	EXISTING CLASSROOM BUILDING - DAMAGED VINYL IMAGES
A802 - RES	EXISTING CLASSROOM BUILDING - DAMAGED VINYL IMAGES
A821 - RES	INTERIOR ELEVATIONS
A822 - RES	INTERIOR ELEVATIONS
A900 - RES	COMPOSITE FINISH PLAN - VINYL AND PAINT
A901 - RES	FINISH PLAN - VINYL AND PAINT - AREA A
A902 - RES	FINISH PLAN - VINYL AND PAINT - AREA B
A903 - RES	FINISH PLAN - VINYL AND PAINT- AREA C
A905 - RES	FINISH PLAN - GYM FLOOR STRIPING PLAN
MECHANICAL	
M001 - RES	MECHANICAL DEMOLITION FLOOR PLAN
M201 - RES	MECHANICAL FLOOR PLANS
M301 - RES	MECHANICAL DETAILS
ELECTRICAL	
E001 - RES	ELECTRICAL DEMOLITION FLOOR PLANS
E100 - RES	ELECTRICAL COMPOSITION PLAN
E201 - RES	ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA A
E202 - RES	ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA B
E203- RES	ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA C
E302 - RES	ELECTRICAL POWER PLAN - LEVEL 1 - AREA B
E501 - RES	ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES
PLUMBING	
P001 - RES	PLUMBING ENLARGED DEMOLITION FLOOR PLANS
P100 - RES	PLUMBING COMPOSITE PLAN
P301 - RES	PLUMBING ENLARGED FLOOR PLANS
P401 - RES	PLUMBING SCHEDULES
P501 - RES	PLUMBING DETAILS
TECHNOLOGY	
T000 - RES	TECHNOLOGY - INDEX SHEET
T010 - RES	TECHNOLOGY - SITE PLAN
T101 - RES	TECHNOLOGY - GYM
T501 - RES	TECHNOLOGY - DETAILS
T502 - RES	TECHNOLOGY - DETAILS
T600 - RES	TECHNOLOGY - SECURITY DETAILS



WALL TO DECK RATING LEGEND

- 1-HR FIRE BARRIER WALL TO DECK (45 MIN DRS)
  UL No U465 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
- 2-HR FIRE BARRIER WALL TO DECK (1.5 HR DRS)
  UL No U411 AT STUD CONSTR
  NCMA-TEK 7-1A -FIRE RESISTANCE (2001) AT CMU CONSTR
  UL No U905 AT CMU CONSTR
- 4-HR FIRE BARRIER WALL TO DECK (2 HR DRS)
  UL No U901 AT CMU CONSTR
- NON-RATED WALL TO DECK
  (REF DTL -/-.--) (NON-RATED OPENINGS)

NOTES:

1. ALL WALLS ARE NON-RATED WALLS TO BOTTOM OF DECK (UON).
2. ALL NON-LOADBEARING CMU WALLS SPAN VERTICALLY (UON).
3. ALL COLUMN ENCLOSURES SHALL BE THE SAME HEIGHT AS THE ADJACENT WALL (UON).
4. BRACE ALL WALLS TO STRUC ABOVE AS NOTED IN WALL BRACING NOTES AND WALL TERMINATION DETAILS ON SHEET A003.
5. REFER TO PARTITION TYPES, SHEET A009 & WALL CONSTRUCTION AND RATED ASSEMBLY UL NOS., SHEET A001, TYP.
6. FIRE RATING OF ANY "EXTERIOR" LOAD BEARING WALLS SHALL CONTINUE FOR A MIN OF 30" BELOW ROOF LINES AT STEPPED BUILDING LOCATIONS, SUCH SAME WALL BELOW SUCH POINT IS AN "INTERIOR" LOAD BEARING WALL AND FIRE RATED ACCORDING TO "INTERIOR" LOAD BEARING WALLS.
7. MARKING OF FIRE RATED & SMOKE STOP PARTITIONS: PERMANENTLY MARK ALL SMOKE BARRIERS, FIRE PARTITIONS, SHAFT ENCLOSURES, FIRE BARRIERS ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER-PROTECT ALL OPENINGS". LETTERS SHALL BE MINIMUM 3" IN HEIGHT, 3/8" IN STROKE, AND PAINTED RED. IF RED IS A CONTRASTING COLOR TO THE GYPSUM BOARD, OTHERWISE USE A CONTRASTING COLOR PAINT. PROVIDE ONE TIME PER STRUCUTRAL BAY, BUT AT INTERVALS NOT MORE THAN 30' ON CENTER, OR FOR WALLS WHICH DO NOT EXTEND FOR A FULL BAY, AT LEAST ONCE. AT ENDS OF WALLS, PROVIDE MARKINGS WITHIN 15' OF THE END OF EACH WALL.

FIRE ASSEMBLY LEGEND

- FLOOR/CEILING
  UL ASSEMBLY No D902: 2-HR;
  STRUCTURAL FRAME RATED 2-HR
- EXPOSED CEILING - CEMENTITIOUS FIRE PROOFING:
  UL ASSEMBLY No P819: 1-HR
- STRUCTURE EXCEEDS 20 FT -
  FIREPROOFING NOT REQUIRED
- ROOF/CEILING
  UL ASSEMBLY No P819: 1-HR;
  STRUCTURAL FRAME RATED 2-HR
- INTUMESCENT PAINT ON ALL EXPOSED STRUCTURAL MEMBERS
  UL ASSEMBLY No X662, X661:
  1-HR AT ROOF/CEILING AND
  2-HR AT FLOOR/CEILING

NOTES:

1. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC PENETRATIONS THROUGH RATED WALLS, FLOOR OR ROOF WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO UL GUIDELINES FOR APPROPRIATE ASSEMBLIES.
2. PROVIDE DAMPERS AND LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.
3. PROVIDE SPRAY-ON FIRE PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM AN AREA DESIGNATED TO BE A FIRE RATED FLOOR/CEILING AND OR FIRE RATED ROOF/CEILING ASSEMBLY INTO AREAS WITH ANY OTHER FIRE ASSEMBLY OR NO FIRE ASSEMBLY FOR THEIR FULL LENGTH, TYP.
4. UL ASSEMBLIES INDICATED ESTABLISH A PERFORMANCE BASIS. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
5. ALL STEEL COLUMNS - SPRAY ON FIREPROOFING, UL ASSEMBLY X795, U.O.N (REF SHEET A021)

PROJECT GENERAL INFORMATION:

PROJECT	RIDGEGATE ELEMENTARY SCHOOL ADDITION AND RENOVATIONS
LOCATION	6015 W RIDGECREEK DR, HOUSTON, TX 77053
BUILDING HEIGHT	ONE STORY
FLOOR AREA SUMMARY	EXISTING SQUARE FOOTAGE: 74,840 SF
	TOTAL EXISTING SQAURE FOOTAGE = **74,840 SF**
	AREA OF RENOVATION: **7,980 SF**

CODE REVIEW: IBC 2021 WITH AMENDMENTS

OCCUPANCY (SEC. 508)	MIXED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SECONDARY OCCUPANCY (SEC. 303, 304)	ASSEMBLY GROUP "A-2" (CAFETERIA) W/ ASSOCIATED KITCHEN ASSEMBLY GROUP "A-3" (LIBRARY, GYMNASIUM) BUSINESS GROUP "B" (ADMIN. AREAS) NOTE: PER EXCEPTION 508.2.1, THE ABOVE SECONDARY OCCUPANCIES ARE DESIGNATED AS ACCESSORY OCCUPANCIES.
AUTOMATIC SPRINKLER SYSTEM	YES
TYPE OF CONSTRUCTION (CHAPTER 6)	TYPE I A
BUILDING AREA AND HEIGHT LIMITATIONS (SEC. 503-506) FOR GROUP "E" OCCUPANCY	UL / UL / UL

CODE REVIEW: IEBC 2021 WITH AMENDMENTS

CONSTRUCTION TYPE PER CURRENT CODE BASED ON EXISTING FIRE RATINGS	I-A, SPRINKLERED
OCCUPANCY (SEC. 508)	MIXED
PRIMARY OCCUPANCY (SEC. 305)	EDUCATIONAL GROUP "E"
SCOPE OF WORK SUMMARY	**LEVEL 3 ALTERATIONS:** • RENOVATION OF EXISTING GYM & ACTIVE LEARNING CLASSROOM. ENTIRE SPACE WILL BECOME NEW GYMNASIUM. • REPLACE CLASSROOM LIGHTS W/ LED LIGHTING AND PROVIDE LIGHTING CONTROLS • RE-COVER DAMAGED WALL PANELS WITH NEW VINYL. • REPLACE EXISTING CLASSROOM CASEWORK. • PAINT ALL EXISTING PREVIOUSLY PAINTED INTERIOR SURFACES AND MISC. EXTERIOR SURFACES

A1 / G101 — **COMPOSITE FLOOR PLAN - CODE REVIEW**
1/16" = 1'-0"

RES

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File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

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2023 BOND — FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
CODE REVIEW

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	G101 - RES

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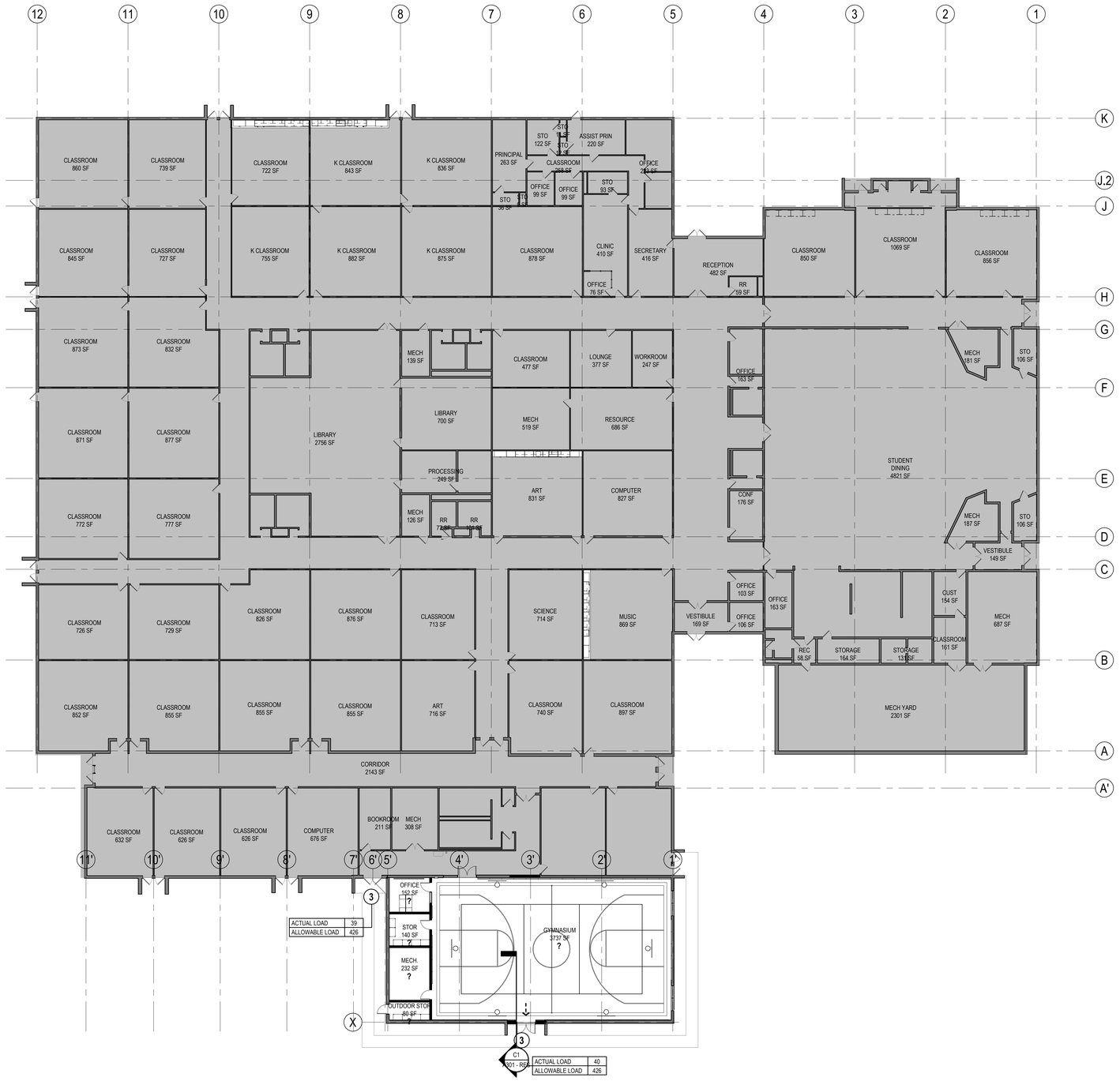
ORIGINAL SHEET - ARCH E1



EGRESS REQUIREMENTS: IBC 2021

OCCUPANCT LOADS: **(TABLE 1004.5)**

FUNCTION OF SPACE:	SQ. FT PER OCCUPANT:
ACCESSORY STORAGE AREAS, MECH. EQUIPMENT ROOMS	300 GROSS
ASSEMBLY W/OUT FIXED SEATS:	
CONCENTRATED (CHAIRS ONLY)	7 NET
STANDING SPACE	5 NET
UNCONCENTRATED (TABLES AND CHAIRS)	15 NET
BUSINESS AREAS	150 GROSS
CLASSROOMS	20 NET
SHOPS AND VOCATIONAL ROOMS	50 NET
EXERCISE ROOMS	50 GROSS
KITCHEN AREAS	200 GROSS

REQUIRED EGRESS WIDTH:

MINIMUM CORRIDOR WIDTH (SEC. 1005.3.2) → 44" MIN OR .15" PER OCCUPANT

NUMBER OF EXITS REQUIRED (TABLE 1006.3.1 / TABLE 1006.3.2(2))

1-49 OCCUPANTS	1
51-500 OCCUPANTS	2
501-1000 OCCUPANTS	3
1001 OR MORE OCCUPANTS	4

MAXIMUM TRAVEL DISTANCE TO AN EXIT (TABLE 1017.2) → 250'

MAXIMUM LENGTH OF DEAD END CORRIDORS (1020.4) → 50' OR UNLIMITED LENGTH WHEN MIN. WIDTH < 2.5 TIMES THE WIDTH OF THE DEAD END CORRIDOR

EXITS THROUGH ADJOINING ROOMS (1016.2) → PERMITTED AT ACCESSORY, NON-HI-HAZARD ROOMS W/ A DISCERNABLE PATH OF TRAVEL PROVIDED; NOT PERMITTED THROUGH KITCHENS, STORAGE, OR SIMILAR

COMMON PATH OF TRAVEL (TABLE 1006.2.1) → < 30 OCC SERVED = 75'-0" TO CHOICE OF 2 EXIT PATHS
3'-0"

OCCUPANCY / EGRESS LEGEND:

INTERIOR AND EXTERIOR DOOR EGRESS (IBC SECTION 1005.1)

1. 3'-0" DOOR (32" CLR) AT .15"/OCCUPANT = 213 OCCUPANTS
2. 4'-0" DOOR (44" CLR) AT .15"/OCCUPANT = 294 OCCUPANTS
3. PAIR 3'-0" DOOR (64" CLR) AT .15"/OCCUPANT = 426 OCCUPANTS

OCCUPANCY / EGRESS LEGEND:

ROOM NAME
AREA
##
OCCUPANT LOAD

AREA CLASSIFICATION (SEC 302 / TABLE 1004.1.2)

- ACCESORY STORAGE AREAS, MEP ROOM (300 GROSS)
- ASSEMBLY WITH FIXED SEATS
- ASSEMBLY UNCONCENTRATED (15 NET)
- BUSINESS (150 GROSS)
- EDUCATIONAL - CLASSROOM (20 NET)
- EDUCATIONAL - SHOPS (50 NET)
- EXERCISE ROOMS (50 GROSS)

A1 G102 COMPOSITE LIFE SAFETY PLAN

1/16" = 1'-0"

RES

Stantec

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
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Client/Project Logo

2020 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
COMPOSITE LIFE SAFETY PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	G102 - RES

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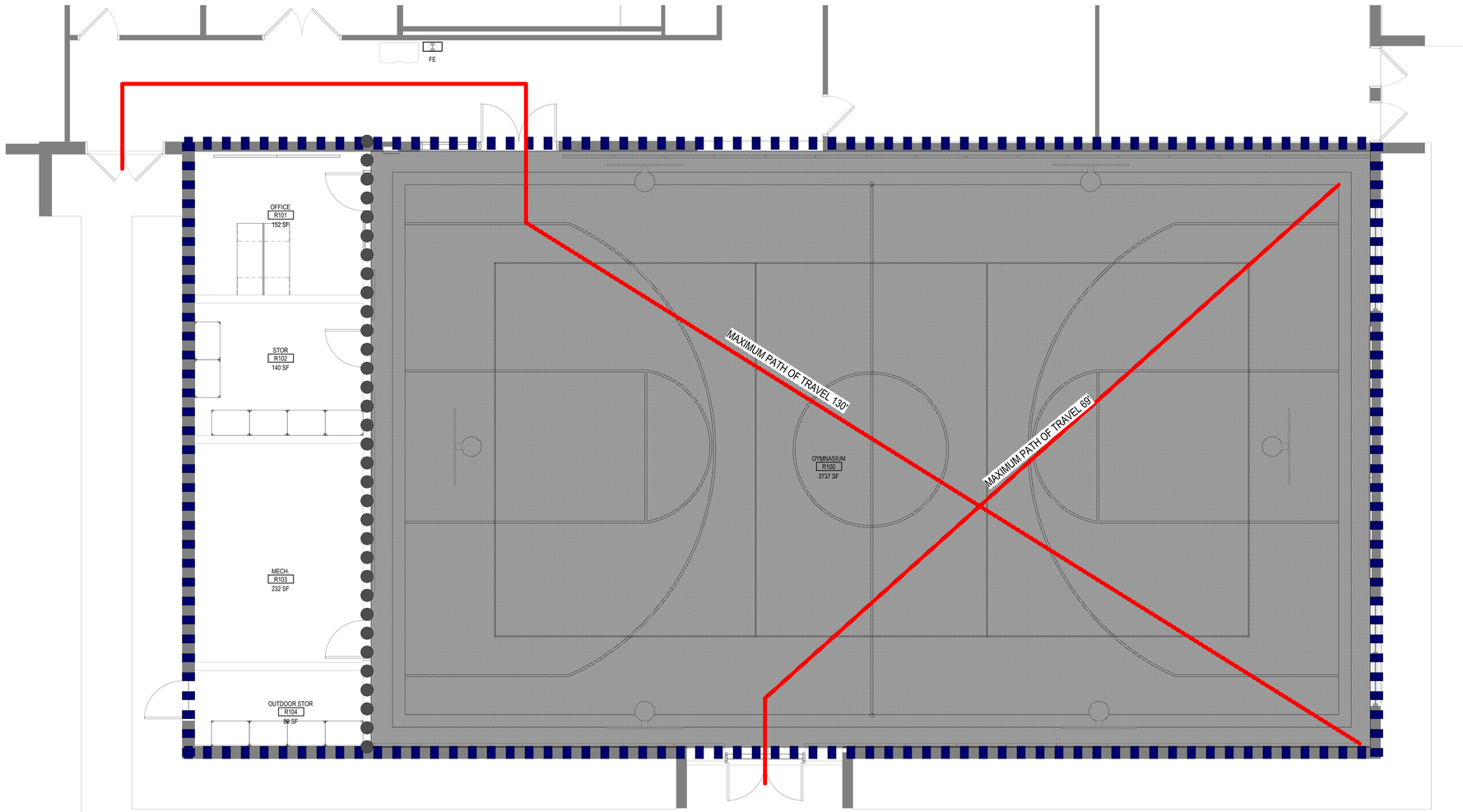
ORIGINAL SHEET - ARCH E1



1 G103 ENLARGED FLOOR PLAN - CODE REVIEW

1/4" = 1'-0"

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File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ENLARGED GYMNASIUM LIFE SAFETY PLAN

Project No.	Scale
214001246	1/4" = 1'-0"

Revision | Drawing No.

G103 - RES

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ORIGINAL SHEET - ARCH E1

STRUCTURAL ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
ACI	AMERICAN CONCRETE INSTITUTE	LW	LONG WAY
ADDL	ADDITIONAL	MATL	MATERIAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAX	MAXIMUM
		MC	MOMENT CONNECTION, MISCELLANEOUS CHANNEL
AISI	AMERICAN IRON AND STEEL INSTITUTE		
		MECH	MECHANICAL
ANSI	AMERICAN NOTIONAL STANDARD INSTITUTE	MANUF	MANUFACTURER(S)
		MID	MIDDLE
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MO	MASONRY OPENING
		NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	NOM	NOMINAL
		NTS	NOT TO SCALE
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
BC	BOTTOM CHORD	OD	OUTSIDE DIAMETER
BOD	BOTTOM OF DECK	OPNG	OPENING
BOT	BOTTOM	OPP	OPPOSITE
BP	BASE PLATE	PL	PLATE
BRG	BEARING	PLF	POUNDS PER LINEAR FOOT
C	CHANNEL, COMPRESSION, CAMBER	PROJ	PROJECTION
CIP	CAST IN PLACE	PSI	POUNDS PER SQUARE INCH
CL	CENTER LINE	PSF	POUNDS PER SQUARE FOOT
CLR	CLEAR	R	RADIUS
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	RE	REFER, REFERENCE
CONT	CONTINUOUS	REINF	REINFORCEMENT (D), (ING), (MENT)
CSJ	CONSTRUCTION JOINT	REQD	REQUIRED
CTJ	CONTROL JOINT	REV	REVISION
DET	DETAIL	RO	ROUGH OPENING
DIA	DIAMETER	SCHED	SCHEDULE(D)
DIAG	DIAGONAL	SDI	STEEL DECK INSTITUTE
DP	DOUBLE PITCHED	SECT	SECTION
DWG	DRAWING	SF	SQUARE FEET
DWL	DOWEL	SIM	SIMILAR
EA	EACH	SJI	STEEL JOIST INSTITUTE
EF	EACH FACE	SPEC	SPECIFICATION(S)
EJ	EXPANSION JOINT	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STIF	STIFFINER
ELEV	ELEVATOR	STL	STEEL
EOD	EDGE OF DECK	STR	STRUCTURAL
EOS	EDGE OF SLAB	T	TOP, TENSION
EQ	EQUAL(LY)	T&B	TOP AND BOTTOM
EXIST	EXISTING	T&G	TONGUE AND GROOVE
EXP	EXPANSION	TEMP	TEMPERATURE
FD	FLOOR DRAIN	THK	THICK(NESS)
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF CONCRETE
FND	FOUNDATION	TOF	TOP OF FOOTING
FS	FAR SIDE	TOJ	TOP OF JOIST
FT	FEET, FOOT	TOL	TOP OF LEDGE
FTG	FOOTING	TOP	TOP OF PANEL
GA	GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GB	GRADE BEAM	TRD(S)	TREAD(S)
HORIZ	HORIZONTAL	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION	UL	UNDERWRITERS LABORATORY
ID	INSIDE DIAMETER	UNF	UNIFORM
IN	INCHES	UON	UNLESS OTHERWISE NOTED
JST	JOIST	V	BEAM AND SHEAR
JT	JOINT	VB	VERTICAL BRACE
K	KIPS, JOIST SERIES	VERT	VERTICAL
KB	KNEE BRACE	W	WALL, EST, WIDTH, WIDE FLANGE
L	SPAN, LEFT, STEEL ANGLE	W/	WITH
Ld	DEVELOPMENT LENGTH	WL	WIND LOAD, WATER LEVEL, WORKING LINE
LL	LIVE LOAD		
LLBB	LONG LEG BACK TO BACK	WP	WATER PROOF, WORKING POINT

STRUCTURAL LEGEND

P1	PRECAST CONCRETE PANEL MARK	S1	SPAN DIRECTION OF A MILD REINFORCED CONCRETE SLAB W/ MAIN REINFORCING MARK S1
F1	SPREAD FOOTING MARK	DECK TYPE 1	SPAN OF 5 1/2" THICK CONCRETE SLAB W/ TYPE 1 STEEL DECK
P1	PLINTH MARK	DECK TYPE 1	SPAN DIRECTION OF BARE STEEL DECK TYPE 2 WITH NO CONCRETE TOPPING
C1	COLUMN MARK	20KSP	SPECIAL OPEN WEB K SERIES STEEL JOIST, SEE PLAN NOTES FOR LOAD REQUIREMENTS
CF1	CONTINUOUS FOOTING MARK	W27X84 <24'-0">	STANDARD AISC ROLLED SHAPE OF W27X84 AT ELEVATION 24'-0" ABOVE DATUM
RW1	RETAINING WALL MARK	W27X84 c=1"	STANDARD AISC ROLLED SHAPE OF W27X84 WITH A 1" UPWARD CAMBER
BP1	BASE PLATE MARK	W27X84 (10)	STANDARD AISC ROLLED SHAPE OF W27X84 W/ 10 HSA (EQUALLY SPACED)
A	STRUCTURAL STEEL COLUMN SPLICE TYPE MARK	W27X84 (10, 6, 12) WBEAM / WBEAM	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 28 HSA EQUALLY SPACED FROM BOTTOM TO TOP AS 10 CONNECTORS / 6 CONNECTORS / 12 CONNECTORS
24/24	STRAIGHT SHAFT PIER (SHAFT Ø)		
24/48	DRILLED PIER (SHAFT AND BELL Ø)	BEAM	CONNECTED TO A ROLLED SHAPE COLUMN WITH A STANDARD WELDED MOMENT CONNECTION STANDARD AISC ROLLED SHOPE BEAM
B1 GB1 1B1	MILD REINFORCED CONCRETE BEAM MARK		
J1	MILD REINFORCED CONCRETE JOIST MARK	6"	SLAB DEPRESSION AND AMOUNT

STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:
1. THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:
1. INTERNATIONAL BUILDING CODE, 2021 EDITION.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-22, AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACE), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 15TH EDITION (ASD), 2005, AS AMENDED.
5. AMERICAN WELDING SOCIETY (AWS).
6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS.
7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:
1. SUPER-IMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF)

BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
SLAB ON GRADE	0	100

D. LATERAL DESIGN LOADS (CLOSED STRUCTURE):
1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF 143 MPH (ASD WIND SPEED OF 110 MPH), 3-SECOND GUST, WITH EXPOSURE B AND A RISK CATEGORY III.

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH (PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SUMP (IN)	W/C RATIO
	3000	3500	4000			
DRILLED PIERS	●			1 1/2"	5-7	0.55
SLAB ON GRADE		●		1"	4-6	0.50
GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.
C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI
D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.
E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0", ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
a. LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.
F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.
G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE H. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.
H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.
1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.
2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL".

BAR SIZE GRADE 60	Ld FOR TOP BARS				Ld FOR BOTTOM BARS			
	28 DAY CYLINDER CONCRETE STRENGTH (PSI)				28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000 / 3500	4000	5000	6000	3000 / 3500	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

J. AT LAP SPLICES, PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld SHOWN IN THE TABLE IN NOTE H ABOVE.
K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.
L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.
1. UNIFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES
2. UNIFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES
3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
- #6 AND LARGER: 2 INCHES
- #5 AND SMALLER: 1 1/2 INCHES
4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
- SLABS AND WALLS: 3/4 INCH
- BEAMS AND COLUMNS: 1 1/2 INCHES

GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
B. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
C. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.
D. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.
E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.
F. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.
G. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AD SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.
H. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.
I. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
J. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.
K. SHOP DRAWINGS:
1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.
2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
5. STRUCTURAL SUBMITTALS REQUIRED FOR APPROVAL INCLUDE, BUT ARE NOT LIMITED TO:
- CONCRETE ACCESSORIES (MANUFACTURERS PRODUCT DATA)
- STEEL REINFORCING
- CONCRETE MIX DESIGN
- CONTROL JOINT LAYOUT
- CONCRETE MATERIAL CERTIFICATES
- STRUCTURAL STEEL FRAMING
- STRUCTURAL STEEL CONNECTION CALCULATIONS
- STEEL ROOF DECK
- COLD FORMED METAL FRAMING
- COLD FORMED METAL FRAMING CALCULATIONS
- MISC. STEEL FABRICATIONS
6. DELEGATED STRUCTURAL DESIGN OF COMPONENTS:
- SEE APPLICABLE SECTIONS OF GENERAL NOTES FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.

L. THESE NOTES APPLY TO STRUCTURAL DOCUMENTS SEALED BY THE STRUCTURAL ENGINEER AND ARE INTENDED TO BE COMPLEMENTARY TO AND USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, INCLUDING THOSE PREPARED BY OTHER DISCIPLINES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/STRUCTURAL ENGINEER IMMEDIATELY. ANY SUCH DISCREPANCIES SHALL BE RESOLVED TO THE MORE STRINGENT REQUIREMENTS, UNLESS OTHERWISE AUTHORIZED BY THE STRUCTURAL ENGINEER.
M. ANY DISCREPANCIES ON THE STRUCTURAL DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF BIDS OR PROPOSALS, OR IF NOT REASONABLE DISCERNABLE DURING PREPARATION OF BIDS AND PROPOSALS, BEFORE COMMENCING THE WORK IN QUESTIONS. NO FIELD CHANGES OR DIVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER. NO CHANGE ORDER CONSIDERATION WILL BE GIVEN TO CHANGES FOR WHICH THE ARCHITECT AND/OR ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
N. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION, INCLUDING EXISTING WORK, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORT IMMEDIATELY TO THE ARCHITECT/STRUCTURAL ENGINEER.

STRUCTURAL STEEL

A. ROLLED SHAPES:
1. ALL STRUCTURAL STEEL FOR ALL THE HORIZONTAL FRAMING MEMBER SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS OTHERWISE NOTED.
2. ALL STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C WITH A MINIMUM YIELD OF 50 KSI, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURAL STEEL FOR PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
4. ALL STRUCTURAL STEEL FOR ANGLES, PLATES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
5. ALL EXPOSED STEEL TO BE HOT DIPPED GALVANIZED.

B. CONNECTIONS:
1. THE DESIGN OF STRUCTURAL STEEL CONNECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE STEEL FABRICATOR. THE DETAILS AND CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
- ALL WELD SIZES AND LENGTHS
- ALL BOLT SIZES, LOCATIONS, QUANTITIES AND GRADES
- ALL PLATE AND ANGLE SIZES, THICKNESS AND DIMENSIONS
- ALL WORK POINT LOCATIONS AND RELATED INFORMATION
2. PROVIDE STANDARD BOLTED CONNECTIONS CONFORMING TO AISC BOLTED CONNECTIONS, USING ASTM A325 OR A490 BOLTS, FOR THE BEAM END SHEARS INDICATED IN THE DOCUMENTS. PROVIDE MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS.
3. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS UNLESS OTHERWISE NOTED.
4. SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
5. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAM IN THE 15TH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD)
6. WHERE BEAMS ARE TO RECEIVE HEADED SHEAR CONNECTORS, DESIGN THOSE BEAM CONNECTIONS FOR THE REACTION SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN THE CONNECTIONS TO SUPPORT 40 PERCENT OF THE MAXIMUM WEB SHEAR, V, FOR THE APPLICABLE MEMBER SIZE AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE 15TH EDITION OF THE AISC MANUAL.
7. MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 5 ABOVE.
8. WHERE FILLET WELD IS NOT SHOWN ON DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16"

C. WELDS:
1. CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
2. WELDS ON INDICATED ON DRAWINGS ARE TO BE FILLET ALL AROUND AS PRESCRIBED BY AISC SPECIFICATION, PROVIDE WELDING OF CONTINUOUS MEMBERS OF 2 INCHES OF 3/16" INCH FILLET STITCH WELDS AT 12 INCHES OC, STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED.
3. FIELD PAINT ALL WELDS W/ "GALVILITE" BY Z.R.C. OR APPROVED EQUAL ARC WELDING ELECTRODES.
4. METAL DECK - E60XX
5. STRUCTURAL STUDS - E6022 OR E6011, 3/32" RODS.
6. ALL OTHER - E70XX LOW HYDROGEN, 250 DEGREE MIN. OVEN TEMP.
7. SIZE - ALL FILLETS ARE 1/16" LESS THAN MINIMUM THICKNESS TO BE WELDED.
8. PROVIDE ULTRASONIC INSPECTION BY THE TESTING LABORATORY FOR ALL WELDS INDICATED AS PENETRATION WELDS.\

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY EARTH ENGINEERING, INC. DATED NOVEMBER 20, 2023 REPORT NO. REPORT NO. EE-2321009-G-R IS AVAILABLE FOR REVIEW.
B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.
C. SUB-GRADE PREPARTION:
a. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.
b. BUILDING PAD UNDER SLAB ON GRADE SHALL BE RECOMPACTED TO A MINIMUM OF 95% OF ASTM D698 (STANDARD PROCTOR) MAXIMUM DRY UNIT WEIGHT AT A MOISTURE CONTENT RANGE BETWEEN OPTIMUM AND 3% ABOVE OPTIMUM.
D. FOUNDATIONS HAVE BEEN DESIGNED FOR
1) ALLOWABLE BEARING CAPACITY OF 3,600 POUNDS PER SQUARE FOOT (PSF) FOR SUSTAINED LOADS AND AN ALLOWABLE BEARING CAPACITY OF 5,400 PSF FOR TOTAL LOADS

SHEET LIST	
Sheet Number	Sheet Name
S101	GENERAL STRUCTURAL CRITERIA
S102	GENERAL STRUCTURAL CRITERIA
S201	FOUNDATION PLAN - COMPOSITE
S201A	FOUNDATION PLAN - EXISTING GYM
S301	FOUNDATION SCHEDULE & DETAILS

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Notes

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09/24/2025

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
GENERAL STRUCTURAL CRITERIA

Project No.	Scale
214001246	1 1/2" = 1'-0"

Revision | Drawing No.

S101-RES

*Plot location in Project Information
10/2/2025 9:54:22 AM
ORIGINAL SHEET - ARCH E1

INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TOPERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBILITIES:
   1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.
   2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.
   3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.
   4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.
   5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.
   6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.
   7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.
C. SPECIAL INSPECTIONS:
   1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. HE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.
   2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE INTERNATIONAL BUILDING CODE, SECTION 1704.
   3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCE STANDARD	FREQUENCY

STRUCTURAL REINFORCING STEEL:
- a. HIGH STRENGTH BOLTING
  - BEARING TYPE CONNECTIONS: PERIODIC
  - SLIP CRITICAL CONNECTIONS: PERIODIC
- b. WELDING OF STRUCTURAL STEEL:
  - FULL PENETRATION GROOVE WELDS: CONTINUOUS
  - MULTI-PASS FILLET WELDS: CONTINUOUS
  - SINGLE-PASS FILLET WELDS > 5/16": CONTINUOUS
  - SINGLE PASS FILL WELDS <= 5/16": PERIODIC
  - FLOOR AND DECK WELDS: PERIODIC
- c. WELDING OF REINFORCING STEEL
  - WELDABILITY OF STEEL OTHER THAN ASTM A706: PERIODIC
  - SHEAR REINFORCEMENT: CONTINUOUS
  - OTHER REINFORCEMENT: PERIODIC
- d. INSPECTION OF STEEL FRAME AND JOISTS:
  - DETAILS SUCH AS BRACING AND STIFFENING: PERIODIC
  - MEMBER SIZES AND LOCATION: PERIODIC
  - APPLICATION OF CONNECTION DETAIL: PERIODIC
- e. CONCRETE CONSTRUCTION:
  - REINFORCING STEEL: PERIODIC (RANDOMLY AT 20%)
  - CONCRETE MIX DESIGN: PERIODIC AT EACH CONCRETE POUR
  - SAMPLING OF FRESH CONCRETE: CONTINUOUS (SEE NOTE 1)
  - MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES: PERIODIC AT EACH POUR
  - INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION OF TECHNIQUES: CONTINUOUS
  - INSPECTING OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS: PERIODIC
- f. SOILS (SLAB ON GRADE):
  - VISUAL OBSERVATIONS: PERIODIC
  - PROOF ROLLING OBSERVATION: CONTINUOUS
  - MOISTURE CONDITIOINING & RECOMPACTION: CONTINUOUS OR PERIODIC (ONE DENSITY TEST FOR EACH 2,000 SF)
  - DURING FILL PLACEMENT: CONTINUOUS OR PERIODIC
  - EVALUATION OF IN PLACE DENSITY FILL: CONTINUOUS OR PERIODIC
- g. PIERS:
  - OBSERVE DRILLING OPERATIONS AND COMPLETE RECORD OF DRILLING: CONTINUOUS
  - VERIFY PLACEMENTS LOCATIONS AND PLUMBNESS, LNEGTH, EMBEDMENT AND ADEQUATE BEARING STRENGTH CAPACITY, CONFIRM PIER DIAMETER, REINFORCING STEEL (RE: CONCRETE ABOVE): CONTINUOUS
- h. MASONRY:
  - VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS: PERIODIC
  - AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
    1. PROPORTIONS OF SITE-PREPARED MORTAR: PERIODIC
    2. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
    3. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES: PERIODIC
  - PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:
    1. GROUT SPACE: PERIODIC
    2. GRADE, TYPE AND SIZE REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES: PERIODIC
    3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES: PERIODIC.
    4. PROPORTIONS OF SITE-PREPARED GROUT: PERIODIC.
    5. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
  - VERIFY DURING CONSTRUCTION:
    1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS: PERIODIC.
    2. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION: PERIODIC.
    3. WELDING OF REINFORCMENT: CONTINUOUS
    4. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)): PERIODIC
  - OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS: PERIODIC

NOTES:

- PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPECTD VALUE.
- ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE PULL TESTED TO 110% FOR NO LESS THAN 3 MIN.
- ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
- CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
- PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

MASONRY

A. CONSTRUCT REINFORCED MASONRY IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES", ACI 530.1/ASC36. MASONRY ALLOWABLE DESIGN STRESSES ARE BASED UPON REQUIRING NO SPECIAL INSPECTION.
B. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 MINIMUM FACE THICKNESS SHALL BE 1.25". ALL WALLS ARE LIGHT WEIGHT BLOCKS (105 PCF OR LESS).
C. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL BOLTS USED FOR ANCHORAGE SHALL BE ASTM A307 HEADED BOLTS.
D. MASONRY STRENGTH (F'M) AT 28 DAYS SHALL BE A MINIMUM OF 2,000 PSI. USE TYPE M OR S MORTAR. MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. GROUT SHALL CONFORM TO ASTM C476. GROUT STRENGTH SHALL BE AT LEAST 2800 PSI.
E. PROVIDE MORTAR BED OR WEB BETWEEN GROUTED BED AND HOLLOW CELL. USE FULL HEAD AND BED JOINTS.
F. UNLESS SHOWN ON DETAILS, PROVIDE #9 LADDER OR TRUSS HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. PROVIDE 2-#5 AT ALL JAMBS AND ENDS OF WALLS.
G. GROUT SOLID THE FIRST CELL ON EITHER SIDE OF DOOR OPENINGS, UNLESS OTHERWISE NOTED. PROVIDE 8" U-BLOCK CMU LINTEL WITH 8" BEARING EACH END; REINFORCE WITH (2) # 4 BOTTOM.
H. EMBED ALL BOLTS IN FULL GROUTED CELL. PLACE BOLTS IN SAME VERTICAL CELL AS REINFORCING IF POSSIBLE. MINIMUM EMBEDDED LENGTH IS ONE-HALF WIDTH OF CELL.
I. / UNLESS SHOWN ON DETAILS, PROVIDE (2) #5 HORIZONTAL REINFORCEMENT IN FULLY GROUTED CELL AT 48" OC VERTICALLY.
J. GROUT SOLID THE FIRST CELL ON EACH LEVEL & ROOF. REINFORCE WITH HORIZONTAL AS PER NOTE 1. RE: TO DETAIL 9 ON THE TYPICAL CMU DETAIL SHEET.

REINFORCEMENT TABLE: NON-LOAD BEARING CMU WALL (CMU 2.0-60, 105 PCF)

INTERIOR WALLS = 10 PSF

UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
14'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
16'-0"	#4 @ 40" OC	#4 @ 48" OC	#4 @ 48" OC	
18'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
20'-0"	#4 @ 24" OC	#4 @ 40" OC	#4 @ 48" OC	
22'-0"	#4 @ 16" OC	#5 @ 32" OC	#4 @ 48" OC	
24'-0"		#5 @ 32" OC	#4 @ 40" OC	
26'-0"		#5 @ 24" OC	#4 @ 32" OC	
28'-0"		#6 @ 32" OC	#5 @ 40" OC	
30'-0"		#6 @ 24" OC	#5 @ 32" OC	
32'-0"		#6 @ 24" OC	#6 @ 32" OC	
34'-0"			#6 @ 24" OC	
36'-0"			#7 @ 32" OC	
38'-0"			#7 @ 32" OC	#7 @ 32" OC
40'-0"				#7 @ 32" OC

NOTES:

1. DEFINITIONS:
   A. "H" CLEAR WALL HEIGHT, FEET, BETWEEN CONNECTIONS TO STRUCTURE.
   B. "U.R." UNREINFORCED WALL (NO VERTICAL REINFORCEMENT IS REQUIRED, EXCEPT AS DETAIL ON DRAWINGS AT OPENINGS, ETC.)
   C. "N.A." NOT APPLICABLE, THICKER WALL REQUIRED FOR SPAN.
2. SPECIFIED REINFORCING STEEL SHALL BE PLACED IN CENTER OF WALL (Fy=60 ksi)
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR HORIZONTAL REINFORCING REQUIREMENTS.
4. THIS TABLE SHALL ONLY BE USED FOR VERTICALLY SPANNING C.M.U. WALLS.
5. SEE TYPICAL DETAILS FOR BRACING REQUIREMENTS AT THE TOP/ENDS OF THE WALL AND DOWELS TO THE STRUCTURE. REINFORCING STEEL SHALL BE CENTERED IN THE CMU WALL BY USING BAR POSITIONERS AT 8'-0" OC VERTICALLY.
6. SPLICING OF VERTICAL STEEL: SEE TYPICAL DETAIL FOR REQUIRED SLAP SPLICE LENGTHS.
7. FOR USE WITH PORTLAND CEMENT / LIME MORTAR.

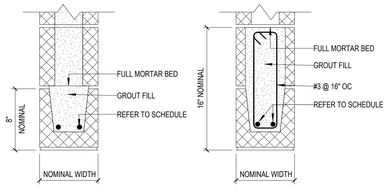
CONCRETE MASONRY UNIT (CMU) LINTEL SCHEDULE

MASONRY OPENING	U-BLOCK	REINFORCING	MIN. BEARING
LESS THAN 4'-8"	8" X 8"	2 #4	8"
4'-8" BUT LESS THAN 5'-8"	8" X 8"	2 #5	8"
5'-8" BUT LESS THAN 6'-8"	8" X 8"	2 #6	8"
6'-8" BUT LESS THAN 12'-0"	8" X 24"	2 #6 T&B	8"

A. PROVIDE 8" MINIMUM BEARING EACH END FOR CMU LINTELS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
B. CURVE CMU LINTEL AND REINFORCING FOR THE RADIUS OF THE WALL WHERE OCCURRING AND PROVIDE 1'-4" MINIMUM BEARING EACH END.

SPAN	6x8	6x16	8x8	8x16	10x8	10x16	12x8	12x16
3-4	1-#3		1-#3		2-#3		2-#3	
4-0	1-#4		2-#3		2-#3		2-#4	
4-8	2-#4		2-#4		2-#4		2-#4	
5-4	2-#4		2-#4		2-#4	2-#3	2-#5	
6-0	2-#4	1-#4		2-#3	2-#5	2-#4	2-#5	2-#4
6-8		1-#5		2-#4		2-#4	2-#6	2-#4
7-4		1-#5		2-#4		2-#4		2-#5
8-0		1-#6		2-#4		2-#5		2-#5
8-8		1-#6		2-#5		2-#5		2-#6
9-4		1-#7		2-#5		2-#6		2-#6

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 7 5/8".
3. REINFORCEMENT SHALL PROJECT A MINIMUM OF 6" ONTO THE BEARING.
4. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM f'm=1500 psi.
5. LINTELS SCHEDULED AS 16" HIGH MAY BE EITHER TYPE "B" OR TYPE "C" AS DETAILED BELOW.
6. PRECAST CONCRETE LINTELS AS SHOWN MAY BE USED WITH ARCHITECT'S APPROVAL. MINIMUM f'c = 3000 psi.

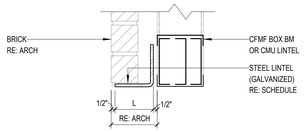


LOOSE VENEER LINTEL SCHEDULE

MASONRY OPENING	SIZE	DETAIL
LESS THAN 4'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
4'-0" BUT LESS THAN 5'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
5'-0" BUT LESS THAN 6'-0"	"L" X 5" X 1/4" BENT PL (LLH)	J
6'-0" BUT LESS THAN 8'-6"	"L" X 7" X 5/16" BENT PL (LLH)	J
8'-6" BUT LESS THAN 10'-0"	"L" X 7" X 3/8" BENT PL (LLH)	J

NOTES:

1. SEE DETAIL BELOW FOR TYPICAL LOOSE LINTEL HORIZONTAL LEG LENGTH "L". ALL DIMENSIONS PROVIDED MUST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
2. PROVIDE 8" MINIMUM BEARING EACH END FOR STEEL LOOSE LINTELS.
3. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
5. HOT DIP GALVANIZE ALL LINTELS AFTER FABRICATION.



SHORING REQUIREMENTS

A. DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY SHORING AND BRACING TO SAFELY SUPPORT THE EXISTING WALLS, FLOOR SLABS AND ROOF WHERE NEW OPENINGS ARE TO BE CUT INTO THE EXISTING WHERE LOAD-BEARING ELEMENTS ARE TO BE REMOVED.
B. SUBMIT CALCULATIONS, SHORING PROCEDURES AND DETAILS PREPARED, AND SEALED, BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF TEXAS, TO THE ARCHITECT FOR REVIEW PRIOR TO PRECEDING WITH THIS WORK.
C. SHORING AND BRACING WORK SHALL BE PERFORMED BY A SHORING CONTRACTOR WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN SIMILAR TYPE OF WORK.
D. PRIOR TO START OF WORK, ESTABLISH AND DOCUMENT ELEVATIONS OF THE EXITING CONSTRUCTION AT INTERVALS ALONG THE WALLS TO BE REMOVED. CONTINUOUSLY MONITOR THE ELEVATION DURING DEMOLITION AND CONSTRUCTION OPERATIONS. METHOD OF SHORING SHOULD HAVE PROVISIONS FOR VERTICAL ADJUSTMENT TO MAINTAIN ELEVATIONS OF EXISTING CONSTRUCTION.

DEMOLITION

A. CONDUCT DEMOLITION OPERATIONS IN EXTREMELY CAREFUL MANNER IN ORDER TO PREVENT ANY DAMAGES TO ALL EXISTING CONSTRUCTION AND TO MINIMIZE INTERFERENCE WITH ADJACENT **STRUCTURES**
B. PREVENT THE MOVEMENT, SETTLEMENT, DAMAGE OR INJURY TO ADJACENT STRUCTURES, PROVIDE & PLACE BRACING OR SHORING & BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE ADJACENT STRUCTURES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, OR INJURY.
C. CEASE OPERATIONS & NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SAFETY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT EXISTING STRUCTURES PROPERLY. DO NOT RESUME OPERATIONS UNTIL THE FULL SAFETY IS RESTORED.
D. PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT SERVICES, SIDEWALKS, DRIVEWAYS & TREES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. REPAIR DAMAGE PROMPTLY AT NO COST TO THE OWNER.
E. DEMOLISH INDICATED STRUCTURES & APPURTENANCE IN AN ORDERLY AND CAREFUL MANNER.
F. PERFORM DEMOLITION IN ACCORDANCE WITH THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
G. REMOVE FOUNDATION WALLS & FOOTINGS AS INDICATED ON DEMOLITION DRAWINGS TO A MINIMUM 3' FEET BELOW FINISH GRADE.
H. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT INDICATED, AT NO COST TO THE OWNER OR THE ARCHITECT/ENGINEER.
I. REPAIR DAMAGE TO ADJACENT STRUCTURES CAUSED AS THE RESULT OF THIS WORK AT NO COST TO THE OWNER OF THE ARCHITECT/ENGINEER.

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Notes

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

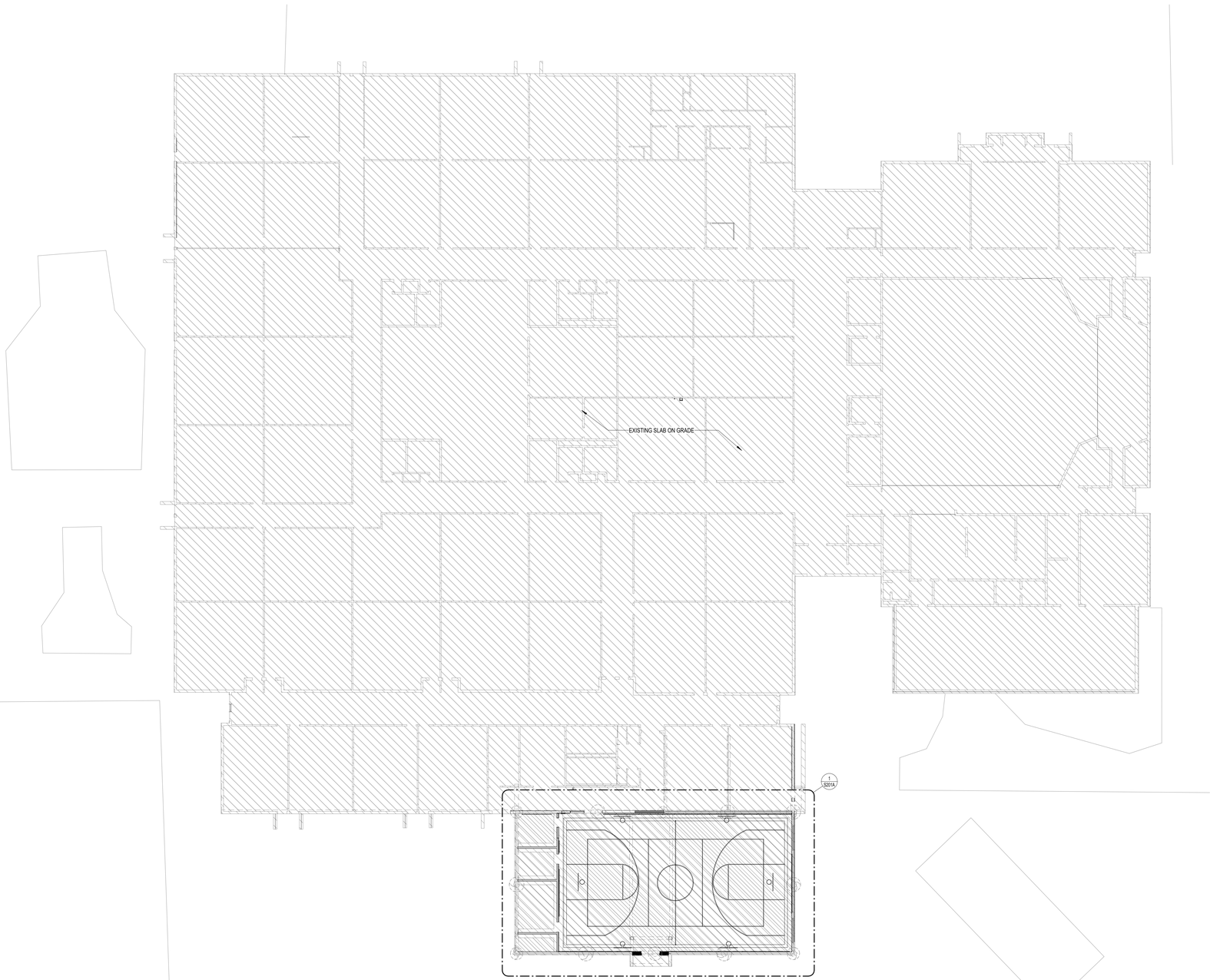
GENERAL STRUCTURAL CRITERIA

Project No.	Scale
214001246	1 1/2" = 1'-0"

Revision | Drawing No.

S102-RES

*Plot location in Project Information
ORIGINAL SHEET - ARCH E1



1 COMPOSITE FOUNDATION PLAN
1/16" = 1'-0"

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Texas Registered Engineering Firm
F-003426
D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
File Name: N/A	JT	AR	LMM 2025.04.11
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

FRED DALLY
90904
LICENSED
ARCHITECT
09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

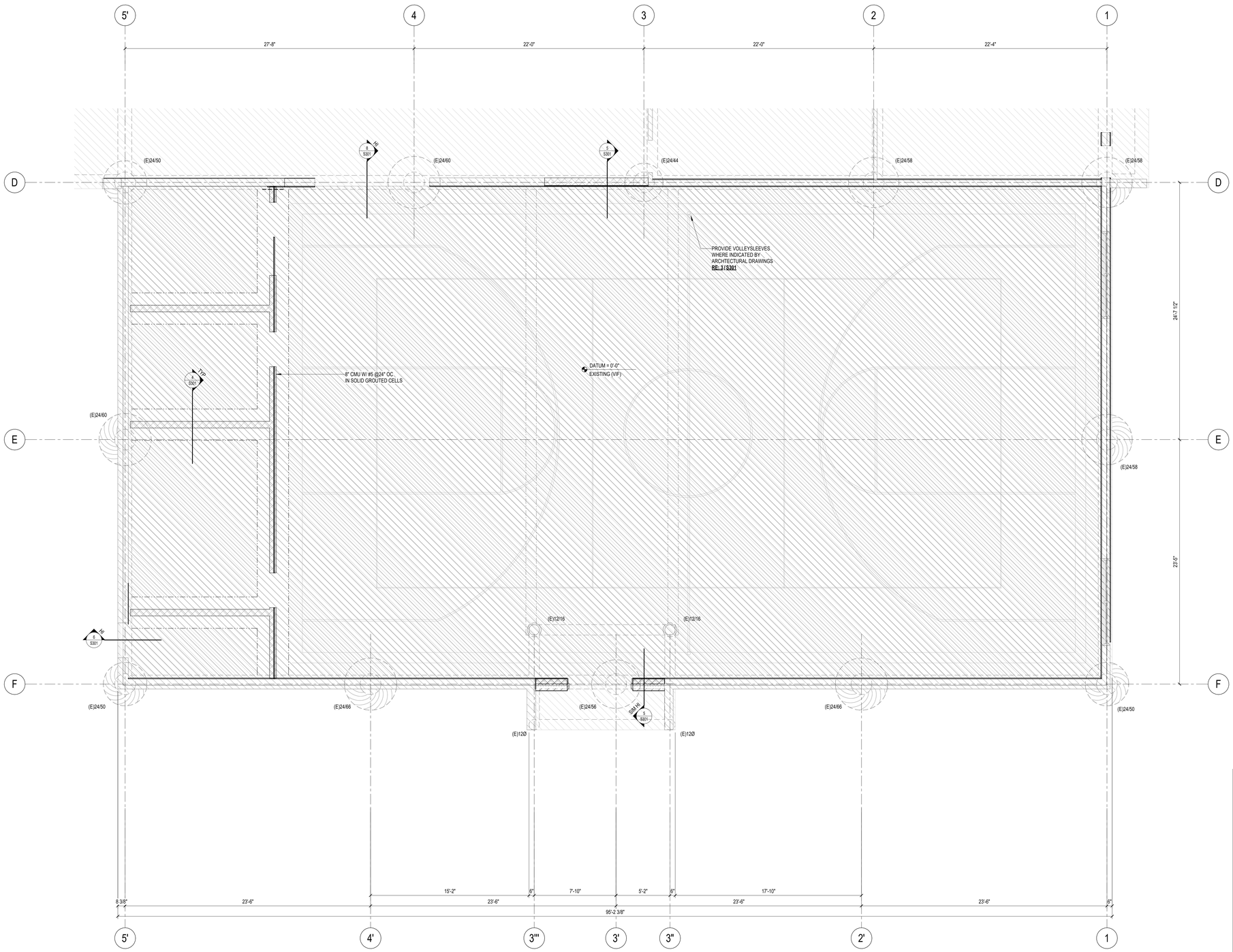
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
FOUNDATION PLAN - COMPOSITE

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.
	S201-RES

<Pick location in Project Information>
9/22/2025 9:04:36 AM

ORIGINAL SHEET - ARCH E1



1 FOUNDATION PLAN - GYMNASIUM

1/4" = 1'-0"

EXISTING CONDITIONS NOTES TO G.C.:

1. EXISTING STRUCTURAL INFORMATION IS BASED ON EXISTING DRAWINGS RECEIVED DATED 07/06/1992. ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO PREPARING THE SHOP DRAWINGS AND START OF CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS PRIOR TO BEGINNING ANY DEMOLITION.
3. DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD IF MODIFICATIONS TO THE DESIGN ARE REQUIRED DUE TO FIELD VERIFIED DIMENSIONS AND CONDITIONS.
4. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
5. ONLY CMU PARTITIONS TO BE DEMOLISHED ARE NOTED ON STRUCTURAL DEMOLITION PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PARTITIONS NOT SHOWN THAT REQUIRE DEMOLITION. COORDINATE EXTENTS WITH ARCH PRIOR TO CONSTRUCTION.

FOUNDATION NOTES:

1. DATUM ELEVATION <0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION <0' - 0">.
2. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS. FOR TYPCIAL HOUSEKEEPING PAD DETAIL **RE: -/ ---**
4. "18/36" (EXAMPLE) INDICATES DRILLED PIER SHAFT AND BELL SIZE ALL INTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-8"> TYP, UON. ALL EXTERIOR DRILLED PIERS ARE AT ELEVATION <-7-8"> TYP, UON. ALL INTERMEDIATE PIERS ARE CENTERED BETWEEN GRIDS ON THE GRADE BEAM, TYP UON. FOR DRILLED PIER SCHEDULE & DETAILS **RE: 1 / S301**
5. "GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE ALL GRADE BEAMS ARE TYPE "GB1" TYP, UON. ALL GRADE BEAMS ARE AT ELEVATION <-0'-8"> TYP, UON. PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS FOR GRADE BEAM SCHEDULE & DETAILS **RE: 2 / S301**
6. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH. PRIOR TO CONSTRUCTION.
7. CONCRETE CURBS NOT SHOWN FOR CLARITY. G.C TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS. FOR TYPICAL CONCRETE CURB DETAIL **RE: -/ ---**
8. ALL CMU WALL LOCATIONS ARE FOR REFERENCE ONLY. G.C. TO COORDINATE FINAL CMU WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS FOR CMU WALLS SLAB ON GRADE SUPPORT **RE: -/ --- RE: 4 / S301 RE: 5 / S301**

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1 713 337 8881
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D + A PROJECT 24-291-00

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 07/18/25 YYYY.MM.DD

Permit/Seal

FRED DALLY 90904 LICENSED ARCHITECT

09/24/2025

Client/Project Logo

2024 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

FOUNDATION PLAN - EXISTING GYM

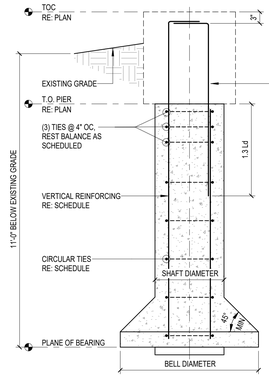
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

S201A-RES

*Pick location in Project Information
1/22/2025 9:04:46 AM

ORIGINAL SHEET - ARCH E1

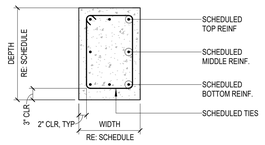
DRILLED PIER SCHEDULE					
SHAFT DIAMETER	VERTICAL REINFORCING		TIES		
	NUMBER	SIZE	SIZE	SPACING (IN)	
36	8	#8	#4	12	



1. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW
2. THE INDEPENDENT TESTING LABORATORY SHALL CONFIRM THE ALLOWABLE SOIL BEARING CAPACITY IN THE FIELD AT THE ELEVATION DESIGNATED AS THE PLANE OF BEARING FOR THE DRILLED PIER.
   A. ALLOWABLE BEARING PRESSURE OF **2,000** PSF FOR DEAD PLUS SUSTAINED LIVE LOAD
   B. ALLOWABLE BEARING PRESSURE OF **3,000** PSF FOR TOTAL LOAD.
3. THE INDEPENDENT TESTING LABORATORY SHALL INSPECT THE BOTTOM AND SIDES OF THE DRILLED PIER PRIOR TO PLACING REINFORCING AND CONCRETE.
4. CENTER ALL DRILLED PIERS UNDER THEIR COLUMNS, UON.
5. MAINTAIN CLOSE AND ACCURATE DRILLING PRACTICES TO ACHIEVE CLOSE TOLERANCES WITH THE REINFORCING STEEL AND THE ANCHOR ROD TEMPLATE.
6. ALL REINFORCING STEEL FOR DRILLED PIERS SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
7. ALL SCHEDULED REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED.
8. DEPOSIT CONCRETE TO ITS FINAL POSITION BY THE USE OF A TREMIE.
9. CONSOLIDATE CONCRETE IN ITS FINAL POSITION BY VIBRATING.

1 DRILLED PIER SCHEDULE
3/4" = 1'-0"

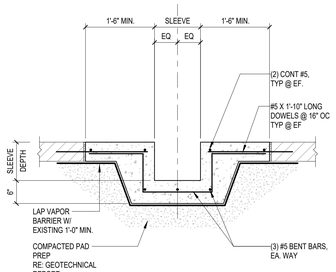
GRADE BEAM SCHEDULE RE: f'_{cc}						
MARK	WIDTH	DEPTH	TOP REINF.	MIDDLE REINF.	BOTTOM REINF.	TIES (OC, TYP)
GB1	2'-3"	2'-0"	(4) #7	-	(4) #7	#4 @ 10"



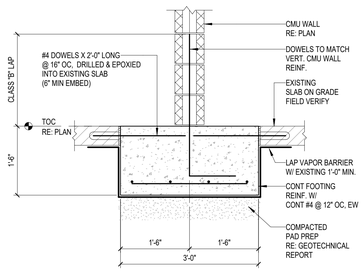
TYPICAL SECTION

2 GRADE BEAM SCHEDULE
3/4" = 1'-0"

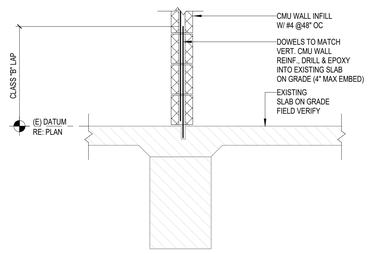
VERIFY LOCATION OF SLEEVE WITH ARCHITECTURAL



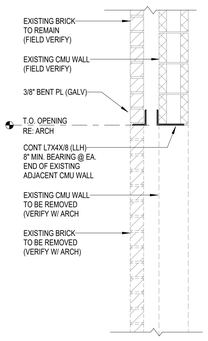
3 EXISTING WITH NEW VOLLEYBALL SLEEVE
3/4" = 1'-0"



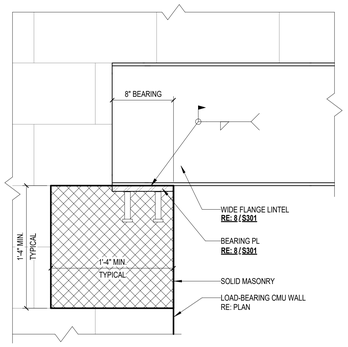
4 EXISTING WITH NEW CMU WALL
3/4" = 1'-0"



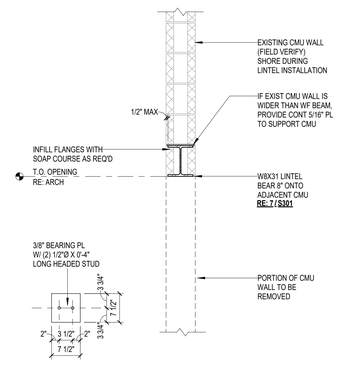
5 EXISTING WITH NEW CMU WALL AT OPENING
3/4" = 1'-0"



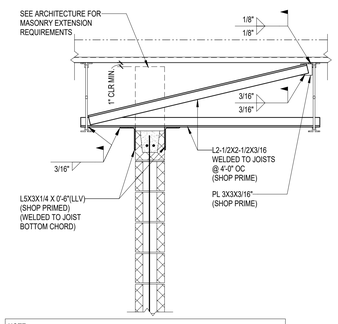
6 EXISTING CMU OPENING (BRICK LINTEL)
3/4" = 1'-0"



7 TYPICAL LB CMU @ OPENING
1 1/2" = 1'-0"



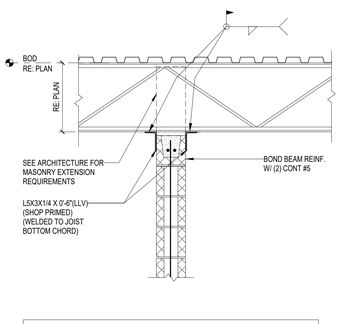
8 EXISTING CMU OPENING SECTION
3/4" = 1'-0"



NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

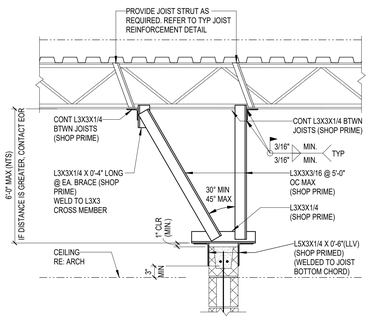
9 TYPICAL CMU BRACING
3/4" = 1'-0"



NOTE:

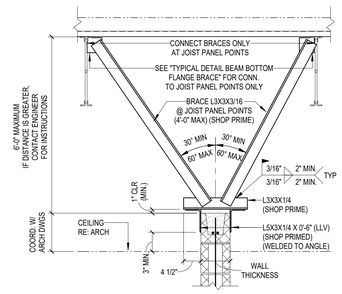
1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

10 TYPICAL CMU BRACING
3/4" = 1'-0"



NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

11 TYPICAL CMU BRACING
3/4" = 1'-0"



NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

12 TYPICAL CMU BRACING
3/4" = 1'-0"

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D + A PROJECT 24-291-00

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File Name: N/A	JT	AR	LMM 2025.04.11
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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REGISTERED PROFESSIONAL ENGINEER FRED DALLY 90904 LICENSED STATE OF TEXAS

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

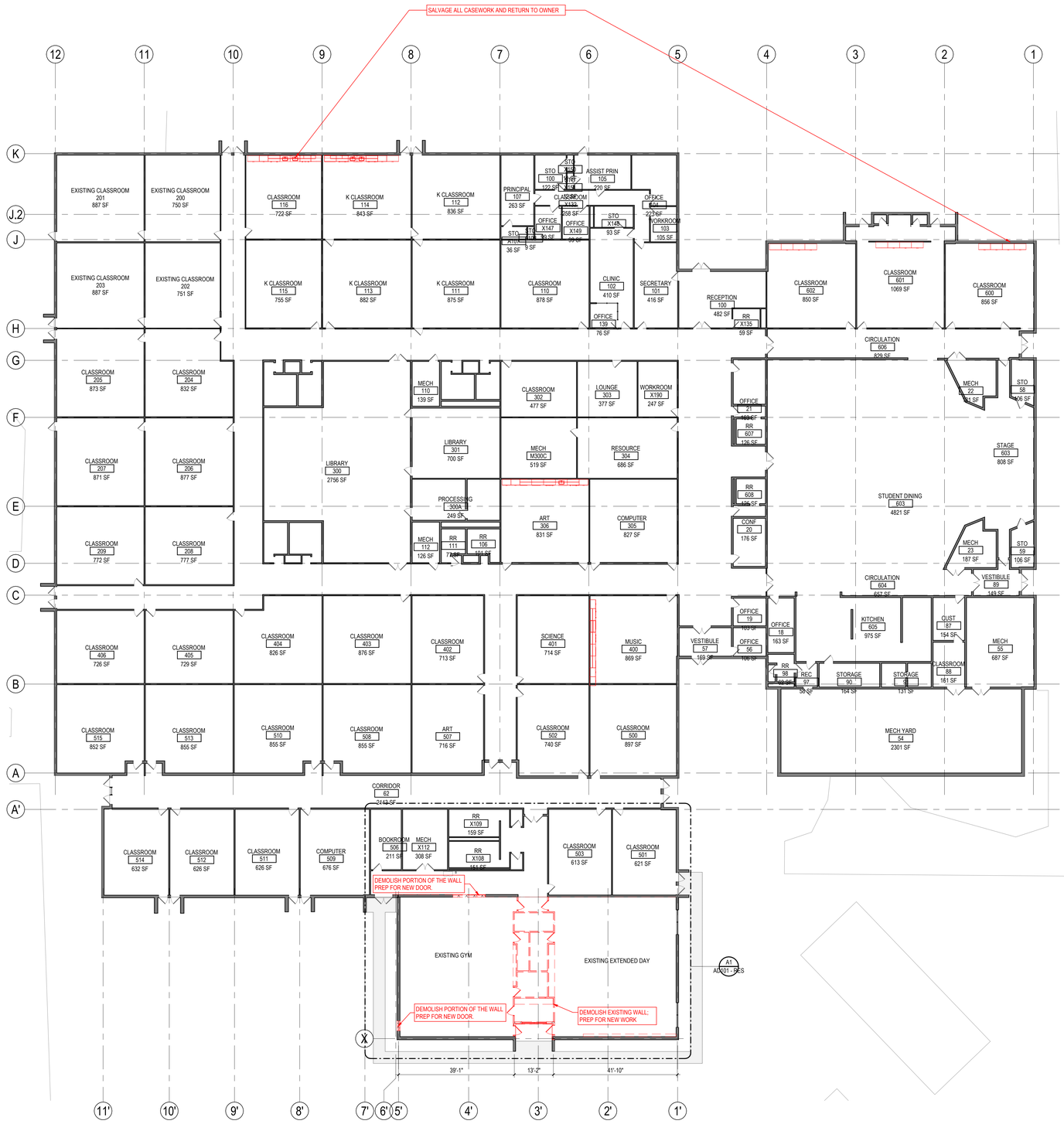
FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
FOUNDATION SCHEDULE & DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	S301-RES

*Plot location in Project Information
10/2/2025 9:04:44 AM
ORIGINAL SHEET - ARCH E1



DEMOLITION LEGEND

- EXISTING / NO WORK IN THIS AREA
- EXISTING WALLS TO REMAIN
- EXISTING WALL TO BE REMOVED. PATCH ADJACENT AREAS TO MATCH EXISTING CONDITIONS.
- REMOVE EXISTING DOORS, FIXTURES, AND MISC IN DEMOLITION
- ALL EXISTING ACOUSTICAL CEILING TILE, GRID AND LIGHT FIXTURES TO BE DEMOLISHED EXCEPT AS NOTED IN MEP AND TECHNOLOGY DRAWINGS AND SPECS. CEILING MOUNTED DEVICES, WAP's, ETC. (VERIFY WITH OWNER IF BEING RE-USED)
- EXISTING 2X4 RECESSED LIGHTS TO BE DEMOLISHED AND REPLACED WITH NEW 2X4 RECESSED LED LIGHTS
- EXISTING CASEWORK TO BE DEMOLISHED. SALVAGE AND RETURN TO OWNER.

GENERAL DEMOLITION REQUIREMENTS

GENERAL:

1. VISIT THE SITE TO UNDERSTAND THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. REPORT DISCREPANCIES OR AMBIGUOUS ITEMS TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK.
3. COORDINATE DEMOLITION WORK WITH PLAN SHEETS.
4. REFER TO CIVIL, STRUCTURAL, AND MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION REQUIREMENTS. PATCH WALLS WHERE FIXTURES AND EQUIPMENT ARE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACE.
5. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THE DEMOLITION AND NOT REUSED IN THE NEW CONSTRUCTION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
6. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF ADDITIONAL EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING UNDAMAGED CONDITION.
7. DEMOLITION WORK IS TO BE DONE IN PHASES. CONTRACTOR TO COORDINATE PHASING OF DEMOLITION WORK.
8. CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN ITEMS INCLUDING BUT NOT LIMITED TO FLOORING, WALLS & CEILINGS, DURING CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR DAMAGE ANY OF THESE ITEMS, THEY SHALL REPAIR AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURAL INTEGRITY:

1. PROVIDE SHORING, BRACING, AND SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE PROJECT BEFORE CUTTING OR ALTERING ANY OPENING IN AN EXISTING LOAD BEARING OR NON-LOAD BEARING WALL, FOOTING, OR ROOF DECK.
2. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, PROVIDE TEMPORARY STEEL ANGLE MASONRY SUPPORT AT NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, WITH MINIMUM BEARING AS INDICATED IN STRUCTURAL DRAWINGS.

CUTTING AND PATCHING:

1. PROVIDE MATERIALS FOR CUTTING AND PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN THAT BEING CUT OR PATCHED.
2. REMOVE EXISTING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. PATCH FLOORS, WALLS AND CEILINGS IN A RECTANGULAR PATTERN TO MATCH EXISTING CONDITIONS AND MAKE THEM READY TO RECEIVE ANY NEW FINISHES INDICATED.
3. CAP PLUMBING LINES THAT ARE TO BE REMOVED BELOW FLOOR OR BEHIND WALL, OR REMOVE THEM COMPLETELY. PATCH FLOORS AND WALLS TO MATCH EXISTING CONDITIONS. REFER PLUMBING DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
4. WHERE EXISTING FLOORING, CEILINGS OR WALL FINISHES ARE TO BE REMOVED AND REPLACED WITH NEW FINISHES, SURFACES TO REMAIN SHALL BE STRIPPED CLEAN OF ALL EXISTING FINISHES AND MADE READY TO RECEIVE NEW FINISHES.
5. INSPECT FLOORS TO RECEIVE NEW FINISHES PRIOR TO BID. COMPLETELY REMOVE FLOOR FINISHES TO BE REPLACED UON. CLEAN AND PROPERLY PREPARE THE EXISTING SUBSTRATE PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. STRIP, PATCH, AND FILL TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF BURRS AND ADHESIVE AND SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL UNDER CUT OF DOORS TO ACCOMMODATE NEW FLOOR FINISH WHERE NEW FINISH IS THICKER THAN ORIGINAL FINISH.
6. WHERE NEW CONCRETE TOPPING IS TO BE PLACED OVER EXISTING CONCRETE SLAB, ABRADE EXISTING CONCRETE FINISH FOR BETTER BOND.
7. TOOTH IN MASONRY WHERE EXISTING MASONRY ABUTS NEW MASONRY IN THE SAME WALL PLANE. NEW MASONRY SHALL MATCH EXISTING COURSING AND BOND PATTERN.
8. PROVIDE A FINISHED EDGE BY TOOTHING IN NEW MASONRY TO MATCH EXISTING WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED (UON).
9. REMOVE EXISTING WINDOWS AND SILLS COMPLETELY PRIOR TO SEALING OPENINGS (UON).
10. REMOVE FRAME AND PATCH WALL WITH SAME ADJACENT MATERIAL AND FINISH AS EXISTING WHERE EXISTING DOOR OPENINGS ARE TO BE SEALED. ALIGN NEW AND EXISTING WALLS (UON).
1. REMOVE EXPANSION JOINT COVERS (FLOOR, WALL, AND CEILING) THAT ARE DAMAGED DURING DEMOLITION AND REPLACE WITH NEW COVERS OF THE SAME TYPE AND FINISH (OR WITH NEW AS DETAILED, WHERE INDICATED).
2. COORDINATE WITH ROOF PLAN SHEET A131 AND DETAILS FOR SELECTED DEMOLITION OF ROOF AREAS.
3. EXISTING DOORS, FRAMES, AND HARDWARE THAT ARE REMOVED MAY BE REUSED, WHERE INDICATED ON PLANS, IF IN GOOD CONDITION IN THE OPINION OF THE ARCHITECT AND OWNER.
4. WHERE INDICATED, REMOVE TACKBOARDS, CHALKBOARDS, MISCELLANEOUS DISPLAY RAILS, AND TOILET ROOM ACCESSORIES. SALVAGE REMOVED ITEMS FOR OWNER OR REINSTALL AS INDICATED IN DRAWINGS AND SPECIFICATIONS. CLEAN AND PREPARE WALL AS REQUIRED FOR NEW EQUIPMENT OR TO RECEIVE A NEW FINISH.
5. REMOVE WOOD FRAME AND WOOD AT TRANSOM OPENINGS ABOVE DOORS. PATCH WALL TO MATCH EXISTING (1 HR CONSTRUCTION).
6. REMOVE EXISTING EXTERIOR DOWNSPOUTS AT AREAS TO BE REROOFED (COORDINATE WITH ROOF PLAN, SHEET A131).
7. AT CONTRACTOR'S OPTION: SALVAGE EXISTING GSU THAT IS TO BE REMOVED FOR USE IN PATCHING EXISTING. REUSE GSU ONLY IF IN GOOD CONDITION IN THE OPINION OF THE ARCHITECT AND THE OWNER. SALVAGED GSU MAY BE USED TO CONSTRUCT NEW WALLS THAT TIE IN TO EXISTING GSU WALLS. REFER TO ROOM FINISH SCHEDULES FOR ROOMS THAT CALL FOR NEW GSU. ALLOW FOR 200 UNITS OF GSU FOR MISC PATCHING AS DIRECTED BY ARCHITECT.
8. REMOVE ALL EXISTING WINDOW FRAMES, GLAZING, GYP BOARD AND INSULATED PANELS OVER WINDOWS.
9. REMOVE ALL LIGHTING FIXTURES FROM CLASSROOMS (COORDINATE WITH LIGHTING DRAWINGS).
10. REMOVE EXISTING LAY-IN CEILING AND GRID FROM AREAS WHERE THERE IS NEW CONSTRUCTION FOR REINSTALLATION IN NEW CONFIGURATION.

A1 AD100 - RES

COMPOSITE DEMOLITION FLOOR PLAN

1/16" = 1'-0"

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	11/12/24 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2024 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

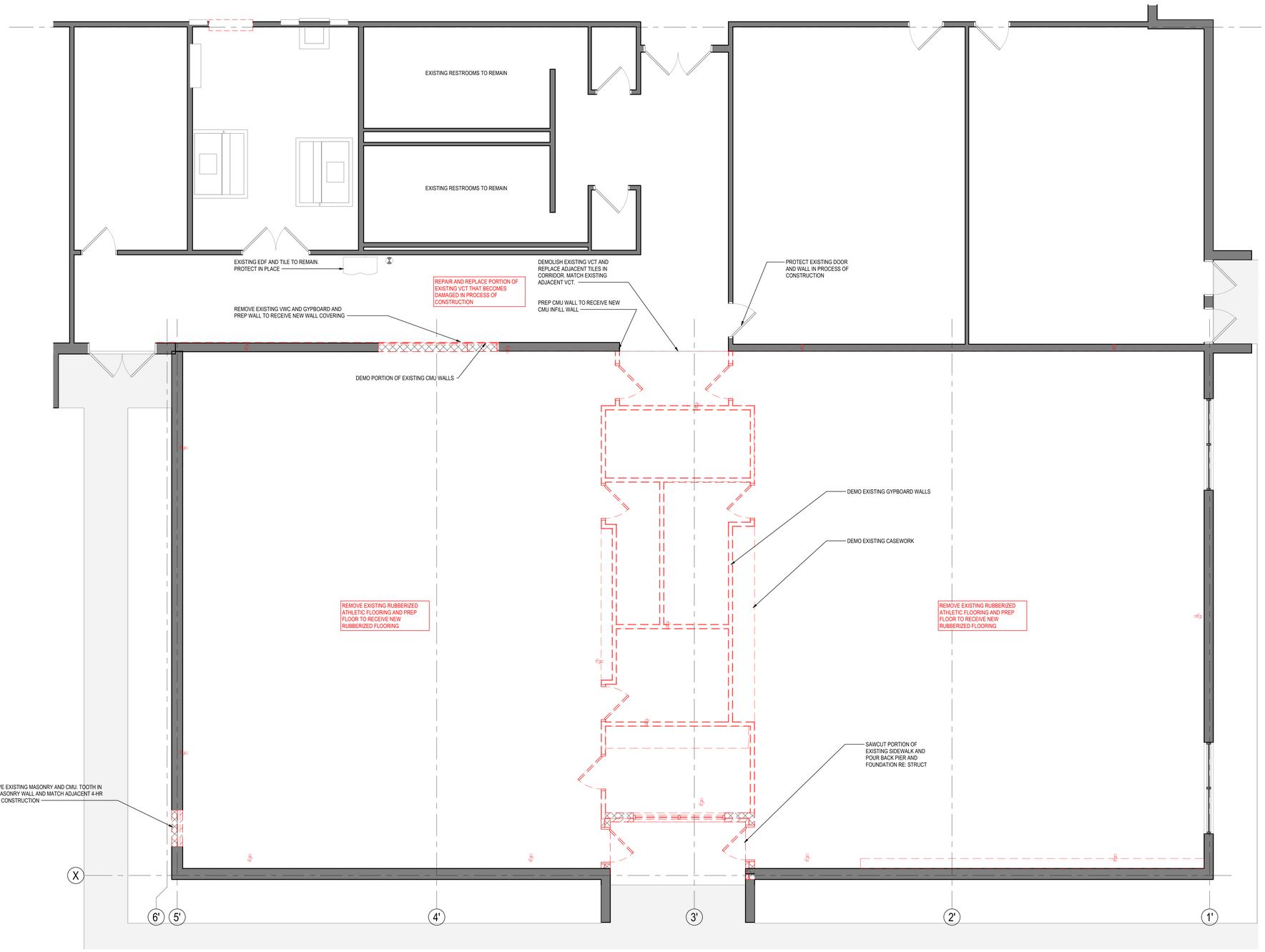
Title
COMPOSITE ARCHITECTURAL DEMOLITION PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AD100 - RES

*Pick location in Project Information
1/20/2025 4:26:19 AM

ORIGINAL SHEET - ARCH E1



A1 AD101 — **DEMOLITION FLOOR PLAN**

1/4" = 1'-0"

RES

GENERAL DEMOLITION REQUIREMENTS

GENERAL:

1. VISIT THE SITE TO UNDERSTAND THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. REPORT DISCREPANCIES OR AMBIGUOUS ITEMS TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK.
3. COORDINATE DEMOLITION WORK WITH PLAN SHEETS.
4. REFER TO CIVIL, STRUCTURAL, AND MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION REQUIREMENTS. PATCH WALLS WHERE FIXTURES AND EQUIPMENT ARE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACE.
5. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THE DEMOLITION AND NOT REUSED IN THE NEW CONSTRUCTION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
6. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF ADDITIONAL EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING UNDAMAGED CONDITION.
7. DEMOLITION WORK IS TO BE DONE IN PHASES. CONTRACTOR TO COORDINATE PHASING OF DEMOLITION WORK.
8. CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN ITEMS INCLUDING BUT NOT LIMITED TO FLOORING, WALLS & CEILINGS, DURING CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR DAMAGE ANY OF THESE ITEMS, THEY SHALL REPAIR AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURAL INTEGRITY:

1. PROVIDE SHORING, BRACING, AND SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE PROJECT BEFORE CUTTING OR ALTERING ANY OPENING IN AN EXISTING LOAD BEARING OR NON-LOAD BEARING WALL, FOOTING, OR ROOF DECK.
2. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, PROVIDE TEMPORARY STEEL ANGLE MASONRY SUPPORT AT NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, WITH MINIMUM BEARING AS INDICATED IN STRUCTURAL DRAWINGS.

CUTTING AND PATCHING:

1. PROVIDE MATERIALS FOR CUTTING AND PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN THAT BEING CUT OR PATCHED.
2. REMOVE EXISTING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. PATCH FLOORS, WALLS AND CEILINGS IN A RECTANGULAR PATTERN TO MATCH EXISTING CONDITIONS AND MAKE THEM READY TO RECEIVE ANY NEW FINISHES INDICATED.
3. CAP PLUMBING LINES THAT ARE TO BE REMOVED BELOW FLOOR OR BEHIND WALL, OR REMOVE THEM COMPLETELY. PATCH FLOORS AND WALLS TO MATCH EXISTING CONDITIONS. REFER PLUMBING DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
4. WHERE EXISTING FLOORING, CEILINGS OR WALL FINISHES ARE TO BE REMOVED AND REPLACED WITH NEW FINISHES, SURFACES TO REMAIN SHALL BE STRIPPED CLEAN OF ALL EXISTING FINISHES AND MADE READY TO RECEIVE NEW FINISHES.
5. INSPECT FLOORS TO RECEIVE NEW FINISHES PRIOR TO BID. COMPLETELY REMOVE FLOOR FINISHES TO BE REPLACED UON. CLEAN AND PROPERLY PREPARE THE EXISTING SUBSTRATE PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. STRIP, PATCH, AND FILL TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF BURRS AND ADHESIVE AND SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL. UNDER CUT OF DOORS TO ACCOMMODATE NEW FLOOR FINISH WHERE NEW FINISH IS THICKER THAN ORIGINAL FINISH.
6. WHERE NEW CONCRETE TOPPING IS TO BE PLACED OVER EXISTING CONCRETE SLAB, ABRADE EXISTING CONCRETE FINISH FOR BETTER BOND.
7. TOOTH IN MASONRY WHERE EXISTING MASONRY ABUTS NEW MASONRY IN THE SAME WALL PLANE. NEW MASONRY SHALL MATCH EXISTING COURSING AND BOND PATTERN.
8. PROVIDE A FINISHED EDGE BY TOOTHING IN NEW MASONRY TO MATCH EXISTING WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED (UON).
9. REMOVE EXISTING WINDOWS AND SILLS COMPLETELY PRIOR TO SEALING OPENINGS (UON).
10. REMOVE FRAME AND PATCH WALL WITH SAME ADJACENT MATERIAL AND FINISH AS EXISTING WHERE EXISTING DOOR OPENINGS ARE TO BE SEALED. ALIGN NEW AND EXISTING WALLS (UON).

1. REMOVE EXPANSION JOINT COVERS (FLOOR, WALL, AND CEILING) THAT ARE DAMAGED DURING DEMOLITION AND REPLACE WITH NEW COVERS OF THE SAME TYPE AND FINISH (OR WITH NEW AS DETAILED, WHERE INDICATED)..
2. EXISTING DOORS, FRAMES, AND HARDWARE THAT ARE REMOVED MAY BE REUSED, WHERE INDICATED ON PLANS, IF IN GOOD CONDITION IN THE OPINION OF THE ARCHITECT AND OWNER.
3. WHERE INDICATED, REMOVE TACKBOARDS, CHALKBOARDS, MISCELLANEOUS DISPLAY RAILS, AND TOILET ROOM ACCESSORIES. SALVAGE REMOVED ITEMS FOR OWNER OR REINSTALL AS INDICATED IN DRAWINGS AND SPECIFICATIONS. CLEAN AND PREPARE WALL AS REQUIRED FOR NEW EQUIPMENT OR TO RECEIVE A NEW FINISH.
4. REMOVE WOOD FRAME AND WOOD AT TRANSOM OPENINGS ABOVE DOORS. PATCH WALL TO MATCH EXISTING (1 HR CONSTRUCTION).
5. REMOVE EXISTING FRAMES, GLAZING, GYP BOARD AND INSULATED PANELS OVER WINDOWS AS NOTED.
6. REMOVE ALL LIGHTING FIXTURES FROM CLASSROOMS (COORDINATE WITH LIGHTING DRAWINGS).
7. REPAIR AND REPLACE ADJACENT CEILING GRID AND TILE THAT IS DAMAGED/AFFECTED IN COURSE OF CONSTRUCTION.
8. REPAIR ADJACENT VINYL COMPOSITION FLOORING THAT IS AFFECTED BY CONSTRUCTION AND REPLACE TO MATCH EXISTING.
9. PREP ENTIRE LENGTH OF CORRIDOR ALONG GYMNASIUM SIDE TO RECIEVE VINYL AND INSTALL NEW VINYL WALL COVERING
10. WHERE REPLACING CASEWORK REPLACE DAMAGED OR DISPLACED DATA AND OUTLETS
11. WHERE REPLACING CASEWORK AND ADJACENT FLOOR IS AFFECTED, REPAIR AND REPLACE FLOORING WITH NEW FLOORING TO MATCH EXISTING
12. RE-INSTALL EXISTING SOAP AND PAPER TOWEL DISPENSERS AT NEW SINKS IN NEW CASEWORK

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File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT — DANIELLE DUNN — 28298 — STATE OF TEXAS

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

ENLARGED GYMNASIUM DEMOLITION PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AD101 - RES

ORIGINAL SHEET - ARCH E1

A1 AD601 LIGHTING DEMO PLAN

1/16" = 1'-0"

RES

DEMO LEGEND

- DEMOLISH 2X4 LIGHT FIXTURE
- DEMOLISH EXISTING CEILING

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REGISTERED ARCHITECT DANIELLE DUNN 28295 STATE OF TEXAS

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
CEILING AND LIGHTING DEMOLITION PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

AD601 - RES

<Doc location in Project Information>
12/2/2025 4:28:21 AM
ORIGINAL SHEET - ARCH E1

ABBREVIATIONS:

#	NUMBER, POUNDS
%	PERCENT
&	AND
'	FOOT, FEET
"	INCH
@	AT
Ø	DIAMETER
℄	CENTER LINE
A	
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL TILE
ADA, ADAAG	AMERICANS WITH DISABILITIES ACT GUIDELINES
ADD	ADDENDUM
ADJ	ADJUSTABLE, ADJACENT
ADMIN	ADMINISTRATION, ADMINISTRATIVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERES
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY, APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AVG	AVERAGE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WALL PANEL
B	
BD	BOARD
BIT	BITUMINOUS
BK	BRICK
BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BO	BOTTOM OF
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF
C	
CAB	CABINET
CB	CHALKBOARD, CARPET BASE
CCD	COUNTER COILING DOOR
CF	CURTAIN FABRIC
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR, COLOR, COOLER
CLRM	CLASSROOM
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CS	CAST STONE, COUNTER SHUTTER
CT	CERAMIC TILE
CUST	CUSTODIAL
CW	CURTAIN WALL
D	
D	DEPTH, DEEP
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION, DIVIDE
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EP	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	EC CETERA
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED CEILING
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE & EQUIPMENT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FLDG PTN	FOLDING PARTITION
FLR	FLOOR
FO	FACE OF, FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBER REINFORCED PLASTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE-RETARDANT TREATED
FRTW	FIRE-RETARDANT TREATED WOOD
FT	FEET
FVC	FIRE VALVE CABINET
FWP	FABRIC WRAPPED PANELS
G	
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GL	GLASS
GLZ	GLAZING, GLAZED
GSU	GLAZED STRUCTURAL UNIT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
HB	HOSE BIBB
HC	HOLLOW CORE
HIWC	HIGH IMPACT WALL COVERING
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HR	HOUR, HOURS
HRDW	HARDWARE
HT	HEIGHT
HVAC	HEATING, VENTING & COOLING
HWD	HARD WOOD
I	
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIMENSION, INSIDE DIAMETER
IN	INCH, INCHES
INFO	INFORMATION
INSUL	INSULATION, INSULATING
INSUL GL	INSULATING GLASS
INT	INTERIOR
IPC	INTERNATIONAL PLUMBING CODE
IRWC	IMPACT-RESISTANT WALL COVERING
J	
JAN	JANITOR
JT	JOINT
L	
L	ANGLE, ANGLE SHAPE
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT
LH	LEFT HAND
LSD	LIQUID SOAP DISPENSER
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBH	MOP/BROOM HOLDER
MCJ	MASONRY CONTROL JOINT (CMU)
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEJ	MASONRY EXPANSION JOINT (BRICK MASONRY)
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFR REC	REC MANUFACTURER'S RECOMMENDATIONS
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING, MOTOR OPERATED
MOD	MODIFY
MOD BIT	MODIFIED BITUMEN
MS	MASONITE
MSB	MOP SERVICE BASIN
MTD	MOUNTED, MOUNTING
MTL	METAL
MU	MASONRY UNIT
MWK	MILLWORK
N	
N	NORTH
NA	NON APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER(S)
NOM	NOMINAL
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NTS	NOT TO SCALE
O	
OC	ON CENTER
OCC	OCCUPANCY
OCG	OVERHEAD COILING GRILL
OCS	OVERHEAD COILING FIRE SHUTTER
OD	OUTSIDE DIAMETER/DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
P	
P	PAINT
PAR	PARALLEL, PARAPET
PC	POLISHED CONCRETE
PCP	PORTLAND CEMENT PLASTER
PERP	PERPENDICULAR
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT, PAINTED
PR	PAIR
PRE-K	PREKINDERGARTEN
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PAINT, PAINTED
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
R	
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE, RUBBER BASE
RBF	RUBBER FLOORING / RUBBER STAIRS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE:	REFER
REBAR	REINFORCING BAR
REF	REFER, REFERENCE, REFRIGERATOR
REINF	REINFORCED, REINFORCEMENT
REQD	REQUIRED
REV	REVISION(S)
RF	RESILIENT FLOORING
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
RP	RESIN PANELS
RS	ROLLER SHADES
RSF	RESINOUS FLOORING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SC	SOLID CORE, STAGE CURTAIN, SEALED CONCRETE
SCHED	SCHEDULE
SCJ	SAWN CONTROL JOINT
SCR	SHOWER CURTAIN ROD
SCWD	SOLID CORE WOOD DOOR
SD	SMOKE DETECTOR
SDT	STATIC DISSIPATIVE TILE
SECT	SECTION
SF	SQUARE FEET, STOREFRONT
SFC	STRECTCHED FABRIC CEILING
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOC
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SOD	SECTIONAL OVERHEAD DOOR
SOSG	SELF OPENING SECURITY GRILL
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SYM	SYMETRICAL
T	
T	CERAMIC / PORCELAIN TILE / GLASS TILE
TAS	TEXAS ACCESSIBILITY STANDARDS
TB	TACKBOARD, CERAMIC / PORCELAIN TILE BASE
TEL	TELEPHONE
TEMP	TEMPERATURE
THRU	THROUGH
TLT	TOILET
TO	TOP OF
TOC	TOP OF CURB, TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TW	TACKWALL
TYP	TYPICAL
TZ	TERRAZO
U	
UL	UNDERWRITER'S LABORATORY
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
UR	URINAL
UR SCRN	URINAL SCREEN
UTIL	UTILITY
V	
V	VOLTS
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING
W	
W	WIDTH, WEST
W/	WITH
W/O	WITHOUT
WB	WINDOW BLINDS
WC	WATER CLOSET, WALL COVERING
WD	WOOD / WOOD VENEER
WDF	WOOD FLOORING
WDW	WINDOW
WF	WINDOW FILM
WH	WATER HEATER
WL	WIND LOAD
WP	WORKING POINT, WALL PAD
WS	WOOD STAIN
WT	WEIGHT
WWF	WELDED-WIRE FABRIC

MATERIAL LEGEND:

- EARTH (UNDISTURBED)
- EARTH (COMPACTED)
- POROUS FILL (STONE, GRAVEL, ETC.)
- CONCRETE
- BRICK (COMMON OR FACE)
- CONCRETE MASONRY UNITS (CMU)
- GLAZED STRUCTURAL UNIT (GSU)
- CUT STONE
- CUT CAST STONE
- STEEL (LARGE SCALE)
- STEEL (SMALL SCALE)
- ALUMINUM
- ACOUSTICAL PANEL CEILING
- TERRAZZO
- PLASTER, SAND, CEMENT, GROUT
- GYPSUM DRYWALL
- CERAMIC TILE
- GLASS
- RIGID INSULATION
- SPRAY FOAM INSULATION
- BATT INSULATION
- TAPERED INSULATION
- ROUGH WOOD (CONTINUOUS)
- ROUGH WOOD (NON-CONTINUOUS)
- FINISH WOOD 1
- FINISH WOOD 2
- PLYWOOD
- CORK
- EXPANSION MATERIAL
- FLEX
- GROUT
- MORTAR
- PARTICLE BOARD
- PLASTIC

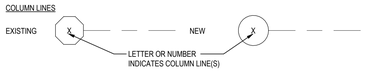
RENOVATION GRAPHICS:

DOOR SWING INDICATION

WALL INDICATION (RE: WALL TYPES FOR WALL CONSTRUCTION)

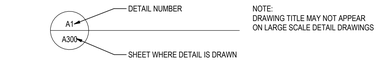
REFERENCE TAGS AND SYMBOLS:

COLUMN LINES

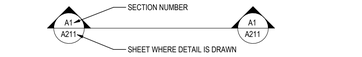


NORTH ARROW

DRAWING / DETAIL TITLE



BUILDING SECTION TAG



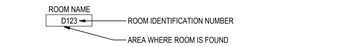
EXTERIOR ELEVATION TAG

KEYNOTES

TEXT LEADER

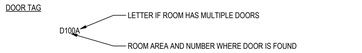
DIMENSION LINE

ROOM NAME AND NUMBER



PARTITION TAG

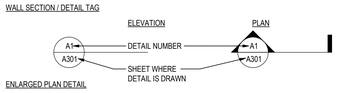
DOOR TAG



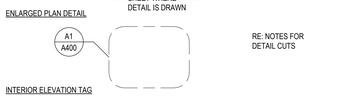
FRAME TAG

ELEVATION DATUM

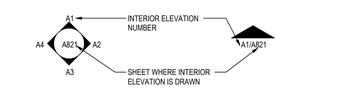
WALL SECTION / DETAIL TAG



ENLARGED PLAN DETAIL



INTERIOR ELEVATION TAG



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Permit/Seal

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Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title
ABBV., MATERIAL LEGEND AND SYMBOLS

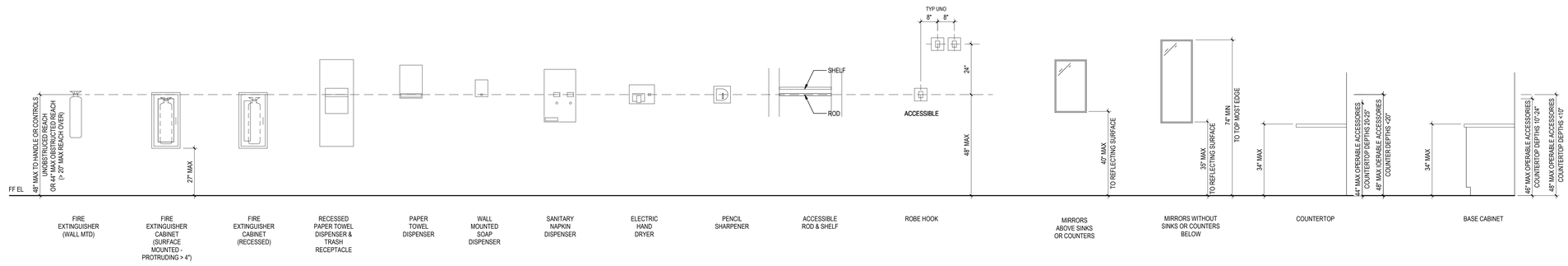
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A001 - RES

<Pick location in Project Information>
1/20/2025 4:37:20 AM

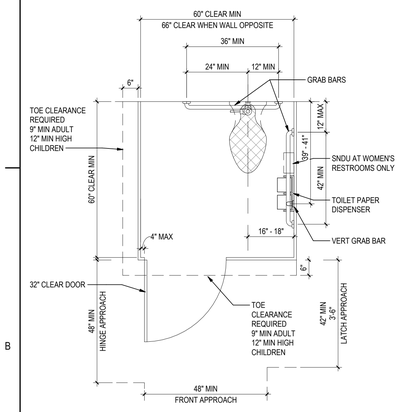
ORIGINAL SHEET - ARCH E1

TYPICAL MOUNTING HEIGHTS

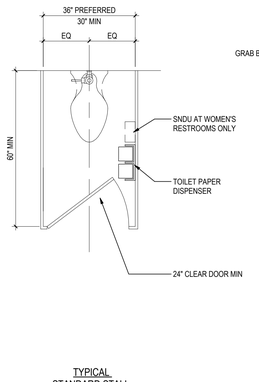


NOTE: COORDINATE ALL ELECTRICAL ITEMS W/ CASEWORK, DISPLAY BOARDS, MIRRORS & ACOUSTICAL MATERIAL AS INDICATED ON THE PLANS, CASEWORK ELEVATIONS & INTERIOR ELEVATIONS (TYP).

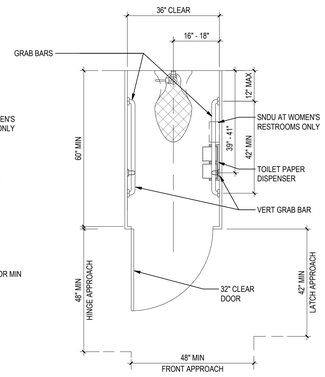
TYPICAL TOILET ROOM LAYOUTS



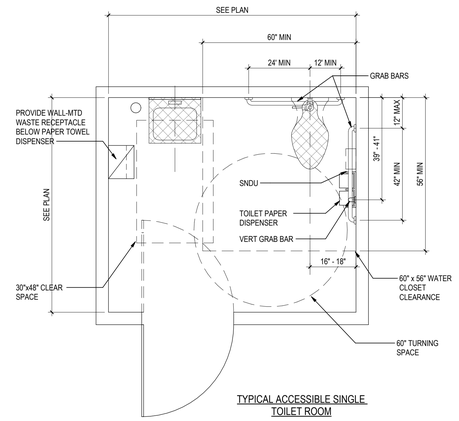
TYPICAL NOTES:
1. REFER SIDE AND FRONT ELEVATIONS.
2. REFER TO PLUMBING DRAWINGS FOR LOCATION OF FLUSH VALVE PIPING.
3. FLUSH VALVE CONTROLS ON WIDE SIDE OF TOILET AREA.
4. PARTITION BOTTOM SHALL BE 9" MIN ADULT, 12" MIN CHILDREN AFF.



TYPICAL STANDARD STALL



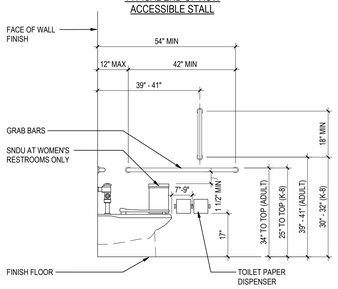
TYPICAL AMBULATORY STALL



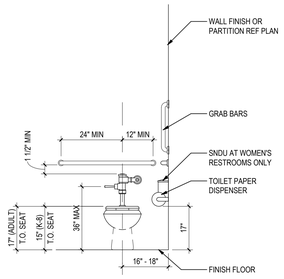
TYPICAL ACCESSIBLE SINGLE TOILET ROOM

TYPICAL NOTES:
1. GRAB BARS ARE PERMITTED TO BE MOUNTED 33"-36" TO TOP OF BAR WHEN REQUIRED TO ACCOMODATE ACCESSORY CONFLICTS.
2. TOILET PAPER DISPNSERR PERMITTED TO BE MOUNTED 15"-48" TO POINT OF OUTLET WHEN REQUIRED TO MAINTAIN 1 1/2" GRAB BAR CLEARANCES.

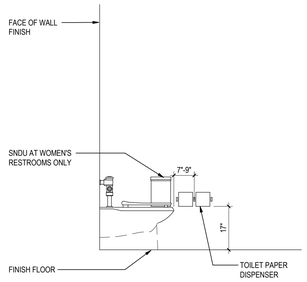
TYPICAL END OF ROW ACCESSIBLE STALL



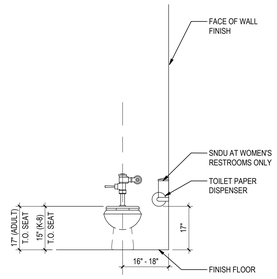
TYPICAL SIDE WALL ELEVATION AT ACCESSIBLE TOILET



TYPICAL ELEVATION AT ACCESSIBLE TOILET

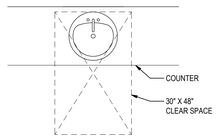


TYPICAL SIDE WALL ELEVATION AT STANDARD TOILET

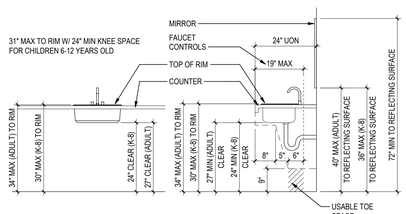


TYPICAL ELEVATION AT STANDARD TOILET

TYPICAL ACCESSIBLE LAVATORY



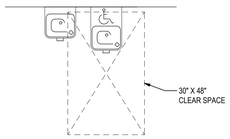
TYPICAL PLAN (COUNTER-MOUNTED)



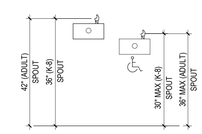
TYPICAL FRONT ELEVATION

TYP SIDE ELEVATION

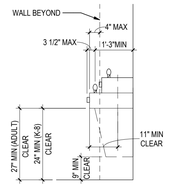
TYPICAL DRINKING FOUNTAINS



TYPICAL PLAN

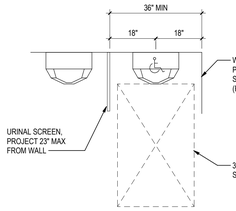


TYPICAL FRONT ELEVATION

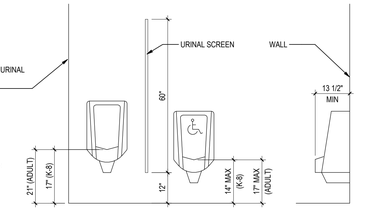


TYP SIDE ELEVATION

TYPICAL URINAL LAYOUT



TYPICAL PLAN



TYPICAL FRONT ELEVATION

TYP SIDE ELEVATION

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 09/15/17 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE HUNTER 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
TYPICAL MOUNTING HEIGHTS AND TOILET LAYOUT

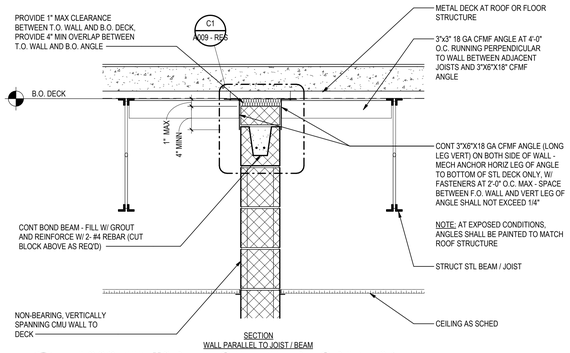
Project No.	Scale
214001246	1/2" = 1'-0"
Revision	Drawing No.

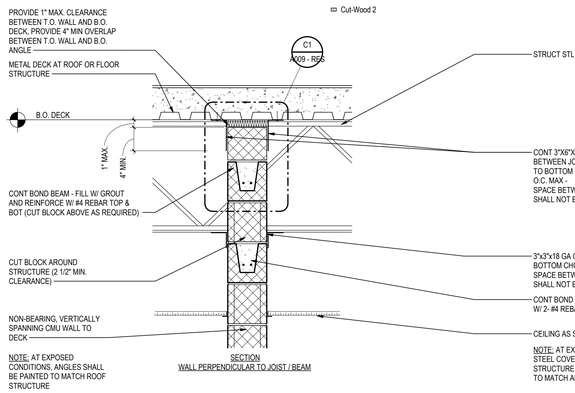
A002 - RES

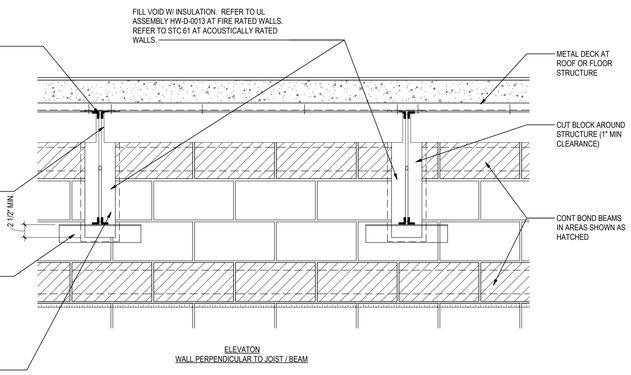
ORIGINAL SHEET - ARCH E1

CONSTRUCTION NOTES - INTERIOR CMU:

1. PROVIDE INTERMEDIATE BRACING FOR FULL-HEIGHT INTERIOR CMU WALLS EXCEEDING MAX VERTICAL SPAN HEIGHT AS INDICATED IN WALL SPAN DIAGRAMS.
2. PROVIDE DEFLECTION CONNECTION AT TOPS OF ALL CMU WALLS. FIRESTOP FIRE-RATED WALLS AND INSTALL ACOUSTICAL SEALANT AT ACOUSTICAL WALLS.
3. PROVIDE CJ'S AS REQUIRED SO THAT DISTANCE BETWEEN JOINTS DOES NOT EXCEED 25' - 0". SEE FLOOR PLANS AND ELEVATIONS FOR LOCATIONS. COORDINATE ADDITIONAL LOCATIONS WITH ARCHITECT.
4. ALL MASONRY WALLS ARE ASSUMED TO SPAN VERTICALLY.
5. REFER DOWEL SPACING ON CJ



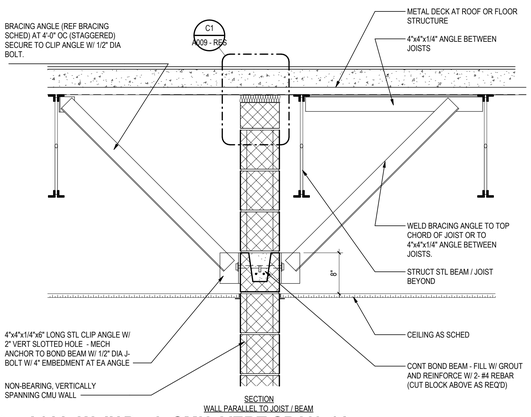


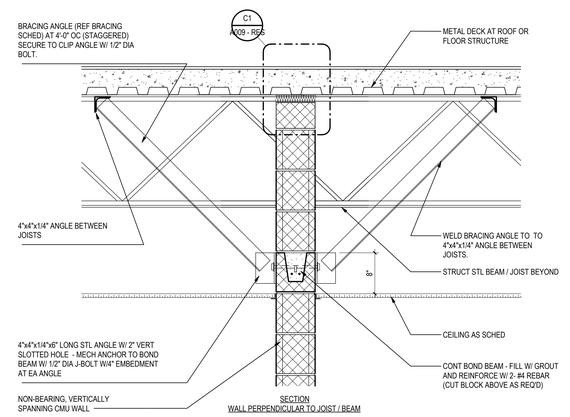


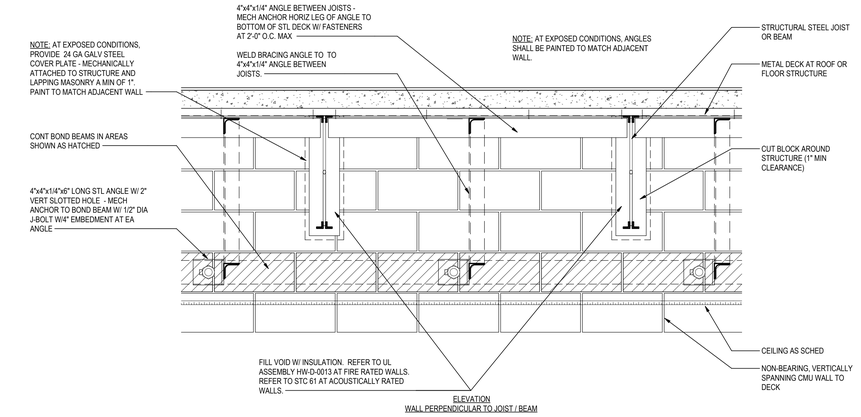
5 A004-RES

A022_Wall2Deck-CMU_VERT SPAN_01

1" = 1'-0"







6 A004-RES

A022_Wall2Deck-CMU_VERT SPAN_02

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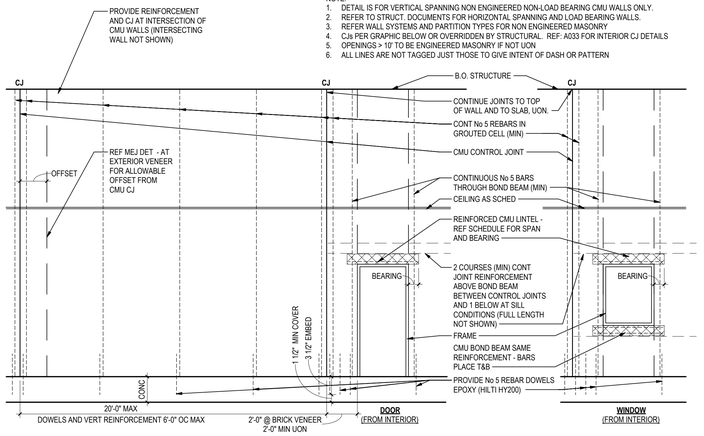


2 A004-RES

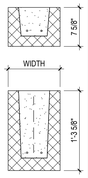
A022_CMU WALL OPENINGS / CJs / DOWEL

1" = 1'-0"

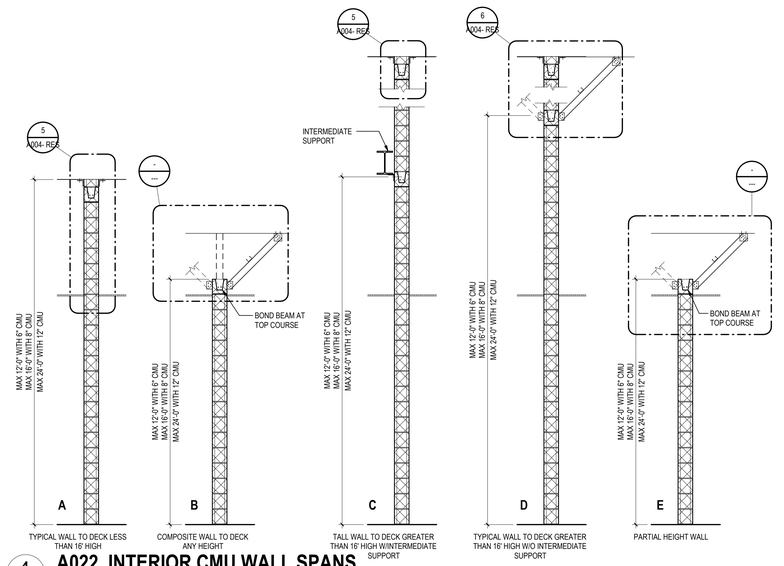
CONCRETE "U" BLOCK LINTELS

CLEAR OPENING	6" CMU	8" CMU	12" CMU
UP TO 4'-0"	8" DEEP BOND BEAM W/ (1) #4	8" DEEP BOND BEAM W/ (2) #4	8" DEEP BOND BEAM W/ (2) #4
UP TO 6'-0"	8" DEEP BOND BEAM W/ (1) #4	8" DEEP BOND BEAM W/ (2) #4	8" DEEP BOND BEAM W/ (2) #4
UP TO 8'-0"	16" DEEP BOND BEAM W/ (1) #4 CONT HORIZ (1) #4 VERT AT 24" OC	16" DEEP BOND BEAM W/ (2) #4 CONT HORIZ (1) #4 VERT AT 24" OC	16" DEEP BOND BEAM W/ (2) #4 CONT HORIZ (1) #4 VERT AT 24" OC
UP TO 10'-0"	16" DEEP BOND BEAM W/ (1) #4 CONT HORIZ (1) #4 VERT AT 24" OC	16" DEEP BOND BEAM W/ (2) #4 CONT HORIZ (1) #4 VERT AT 24" OC	16" DEEP BOND BEAM W/ (2) #4 CONT HORIZ (1) #4 VERT AT 24" OC

LINTEL SECTIONS



1. THIS SCHEDULE IS FOR USE ON LINTELS IN NONLOAD-BEARING INTERIOR CMU WALLS AND IN NONLOAD-BEARING EXTERIOR WALLS AS NOTED.
2. THIS TYPE OF LINTEL IS USED TO CARRY CONCRETE BLOCK OR LIGHTER WALL CONSTRUCTION ONLY. THESE LINTELS WILL NOT CARRY ANY FLOOR OR ROOF LOADS. REFER TO STRUCTURAL DOCS FOR LOCATIONS OF LOAD-BEARING LINTELS AND FOR LOAD-BEARING LINTEL DESIGNS.
3. LINTEL DESIGN IS BASED ON A MAXIMUM WALL HEIGHT OF 12'-0". WALL OPENINGS IN EXCESS OF 12'-0"-INTERIOR, 8'-0"-EXTERIOR, SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION TO PREVENT DELAYS.
4. 8" MINIMUM BEARING REQUIRED AT EACH END FOR ALL LINTELS. REINFORCE LINTELS THAT SUPPORT CMU AT EACH END W/1-#5 VERT, FROM FOUNDATION TO BOTTOM OF LINTEL AND GROUT CELL FULL.
5. FOR 4" CONCRETE BLOCK WALLS A 3-5/8" x 7-5/8" PRECAST CONCRETE LINTEL REINFORCED WITH 1-#4 TOP AND BOTTOM CAN BE USED FOR CLEAR SPANS OF 7'-0" AND LESS.
6. PROVIDE CONTROL JOINTS AND BOND BREAKS AT CMU LINTELS IN ACCORDANCE WITH THE "CONCRETE MASONRY AND HARDSCAPE ASSOCIATION" TECH NOTE 'CMU-TEC-009-23'.



4 A004-RES

A022_INTERIOR CMU WALL SPANS

3/8" = 1'-0"

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Title

WALL SPANS INTERIOR AND WALL TO DECK DETAILS

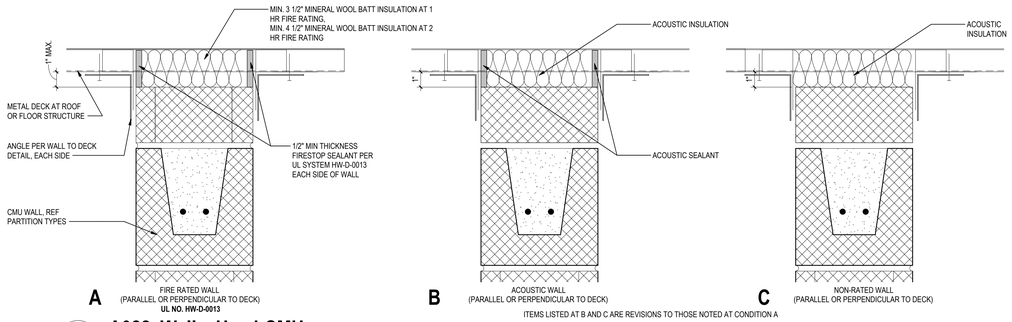
Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A004- RES

<Plot location in Project Information>
1/20/2025 4:27:23 AM

ORIGINAL SHEET - ARCH E1

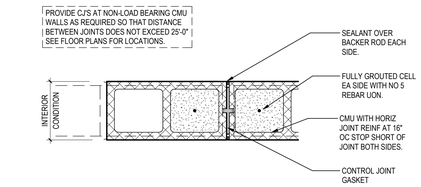
MASTER PARTITION SCHEDULE - ALL GROUPS																			
	CONSTRUCTION DATA							TOP TERMINATION				RATED PARTITIONS			ACOUSTICAL PERFORMANCE				
TYPE	OVERALL PARTITION DEPTH	GWB THICKNESS	FRAMING SIZE	METAL GA.	STUD SPACING	DETAIL AT TOP	DETAIL AT BASE	STUDS TO STRUCTURE	GWB TO STRUCTURE	INSULATION TO STRUCTURE	MASONRY TO STRUCTURE	SMOKE PARTITION	FIRE RATING (HRS)	FIRE TEST	SOUND INSULATION	STC RATING	STC TEST	NOTES	
Group M - CMU																			
M08	7 5/8"	0"	8" NOM.			TM1	BM1	-	-	-	-	-	0		-	0		INTERIOR	
M09	7 5/8"	0"	8" NOM.			TM2	BM1	-	-	-	•	-	0		-	45	KAL-359-3-66	INTERIOR	



C1 A009 A022_Walls_Head-CMU

3" = 1'-0"

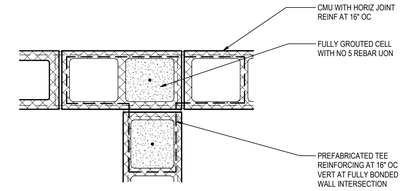
RES



C3 A009 CONTROL JOINT IN CMU

1 1/2" = 1'-0"

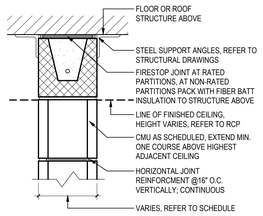
RES



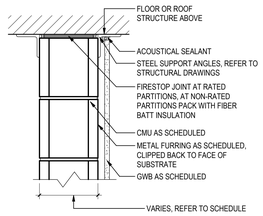
C4 A009 PERPENDICULAR JOINTS IN CMU

1 1/2" = 1'-0"

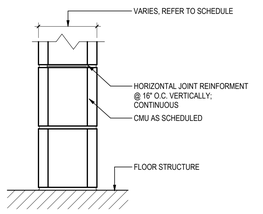
RES



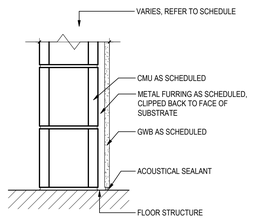
TOP TM2



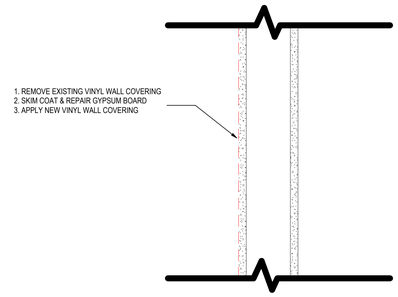
TOP TN1



BASE BM1



BASE BN1



1 A009 REPLACE/REPAIR VINYL

3" = 1'-0"

RES

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100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	12/07/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title

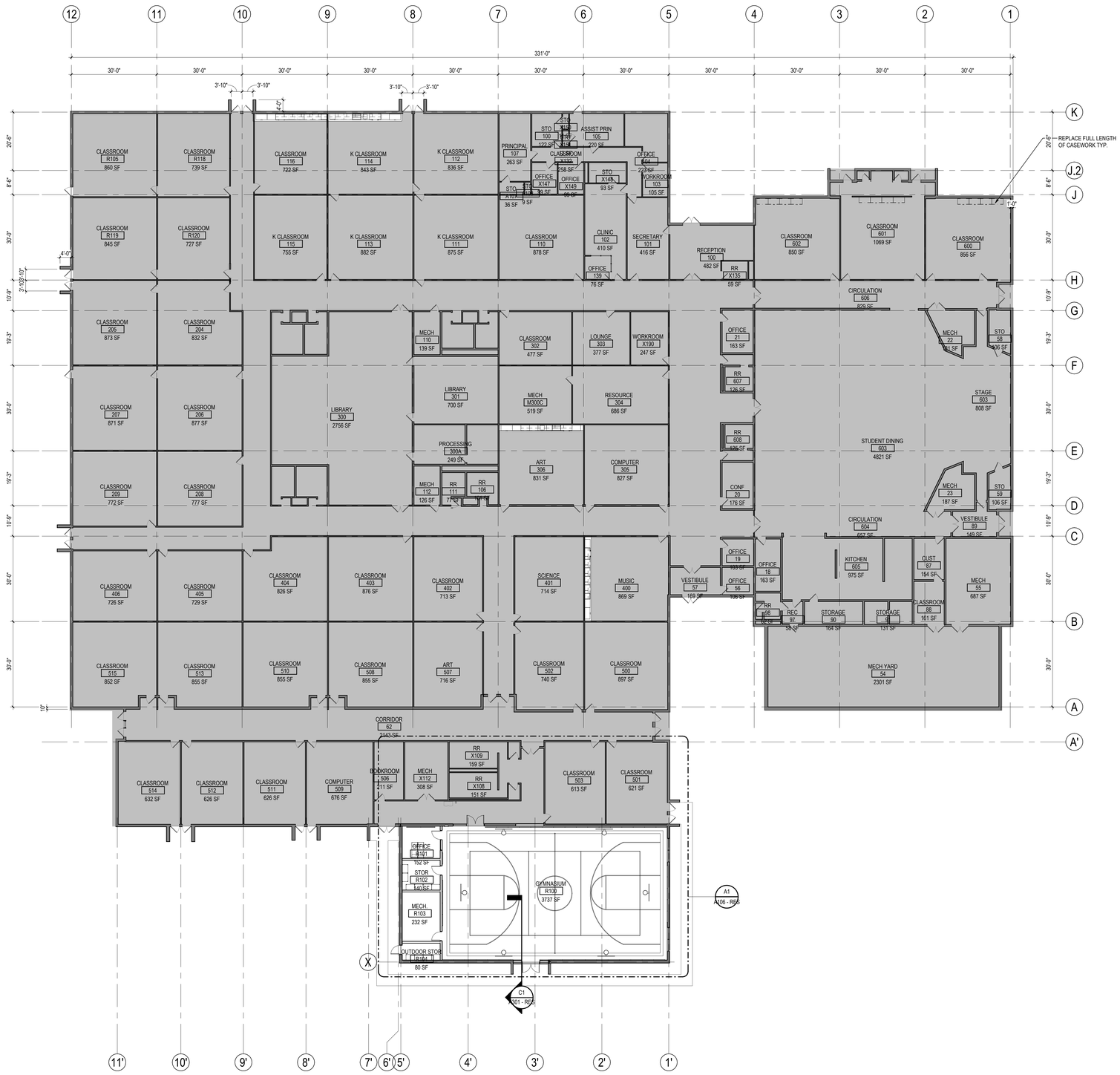
INTERIOR PARTITION TYPES, NOTES AND DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A009 - RES

Plot location in Project Information
1/2/2025 4:27:23 AM

ORIGINAL SHEET - ARCH E1



A1 COMPOSITE FLOOR PLAN

A100

RES

1/16" = 1'-0"

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REGISTERED ARCHITECT DANIELLE QUINN 28298 STATE OF TEXAS

Client/Project Logo

2024 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
COMPOSITE FLOOR PLAN

Project No. 214001246 | Scale As indicated

Revision | Drawing No. A100 - RES

<Pick location in Project Information>
12/2/2024 4:27:23 AM

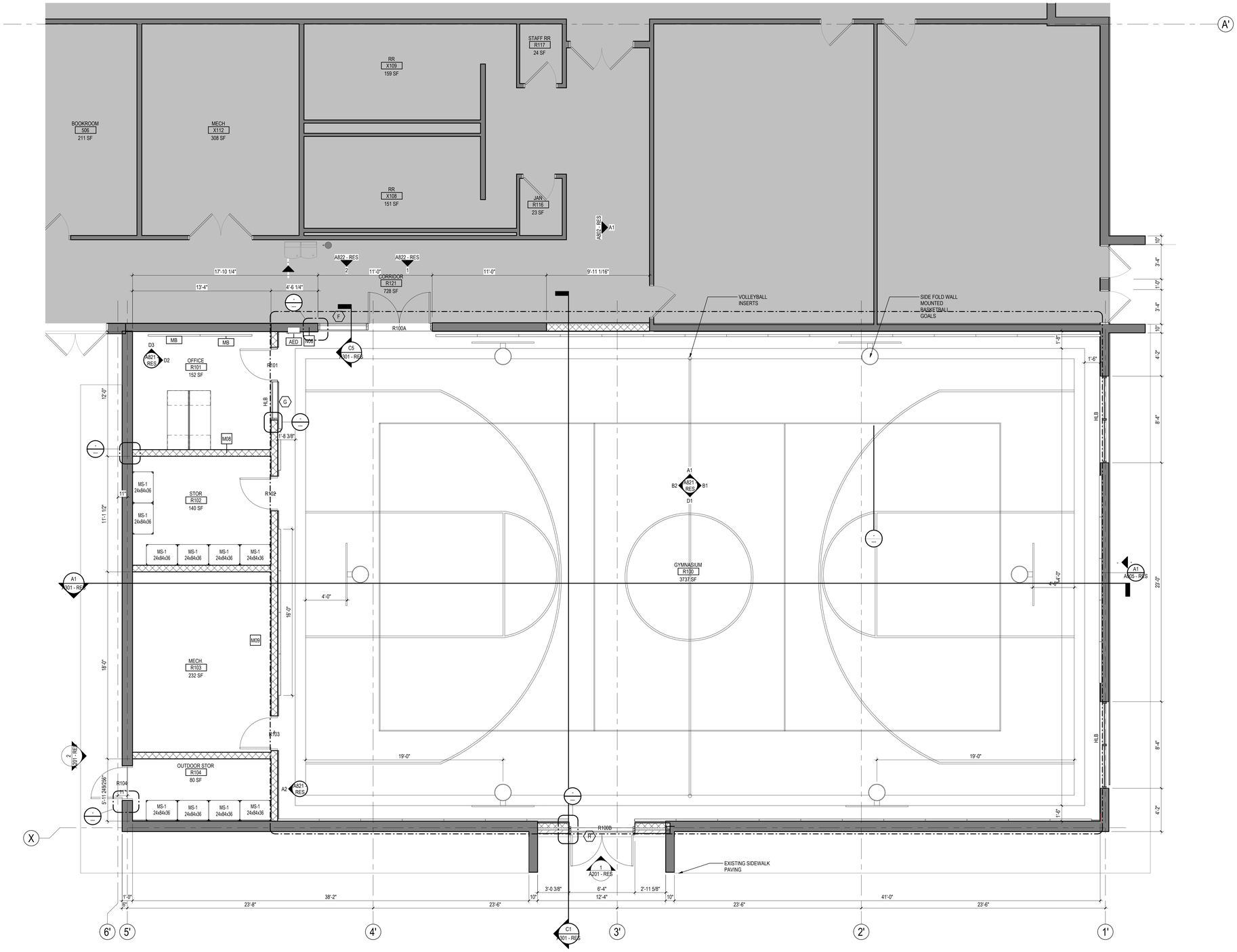
ORIGINAL SHEET - ARCH E1

GENERAL NOTES

1. INTERIOR CMU TYPE IS M08 UNO
2. AT INFILL WALLS MATCH ADJACENT EXISTING WALL ACOUSTICAL AND FIRE RATING

LEGEND

- AREA OF WALLS RELOCATION
- EXISTING NO SCOPE OF WORK
- NEW WALLS
- EXISTING WALLS TO REMAIN



A1 A106 — **ENLARGED FLOOR PLAN - GYMNASIUM**

1/4" = 1'-0"

RES

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Title

ENLARGED FLOOR PLAN - GYMNASIUM

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

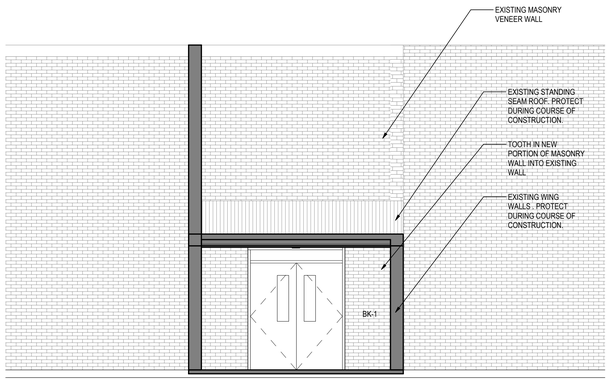
A106 - RES

<Pw Location in Project Information>
10/2/2025 4:27:34 AM

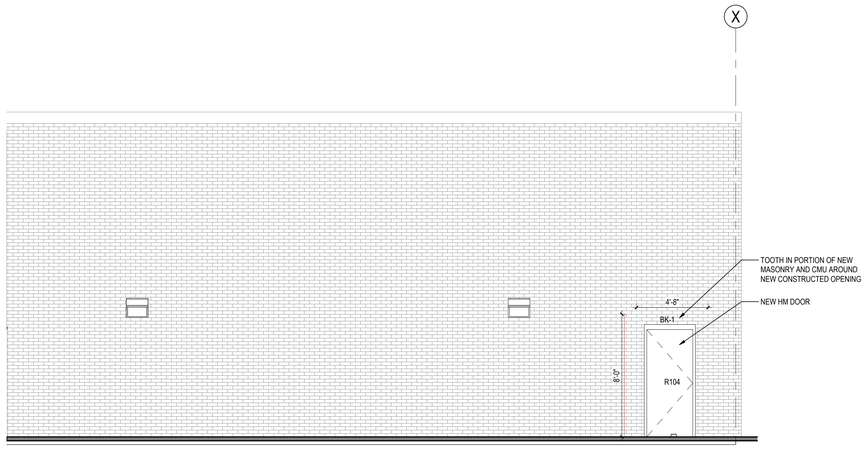
ORIGINAL SHEET - ARCH E1

EXTERIOR MATERIALS LEGEND

1. BK-1 BOD: INTERSTATE MODULAR BRICK, TUMBLEWEED
2. BK-2 BOD: BELDEN GLAZED MODULAR BRICK, DOLPHIN GRAY
3. BK-3 BOD: BELDEN GLAZED MODULAR BRICK, CRANBERRY
4. BK-4 BOD: CLOUD CERAMICS VELOUR MODULAR, DOVE GREY



1 A201 — **SOUTH ELEVATION**
1/4" = 1'-0"
RES



2 A201 — **WEST ELEVATION**
1/4" = 1'-0"
RES

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Title
EXTERIOR ELEVATIONS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A201 - RES

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ORIGINAL SHEET - ARCH E1

BUILDING SYSTEM

NOTE: MATCH FIRE AND ACOUSTICAL RATING OF EXISTING ADJACENT CMU ASSEMBLY AND ALIGN FACE OF WALL

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Title

WALL & PARTITION TYPES

Project No.	Scale
214001246	1 1/2" = 1'-0"
Revision	Drawing No.

A300 - RES

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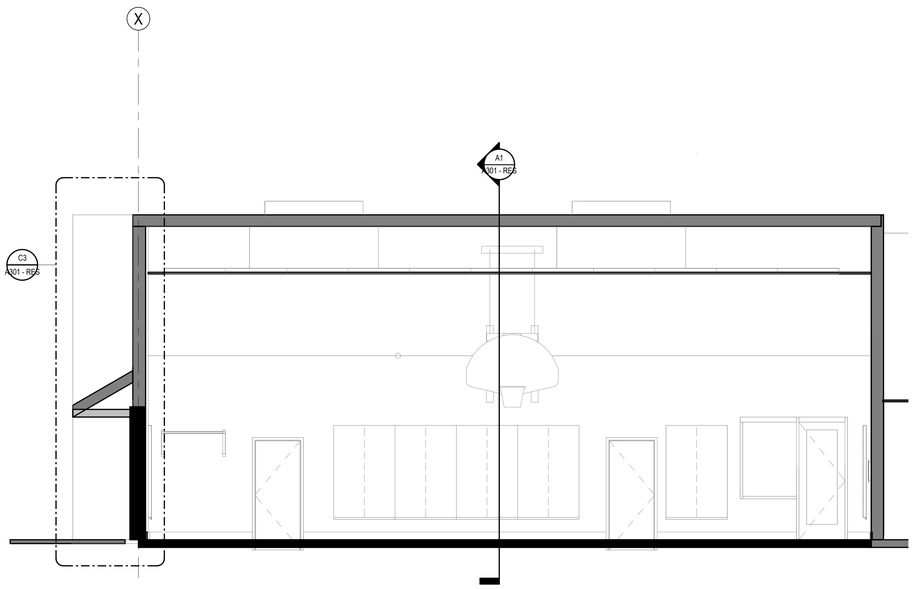
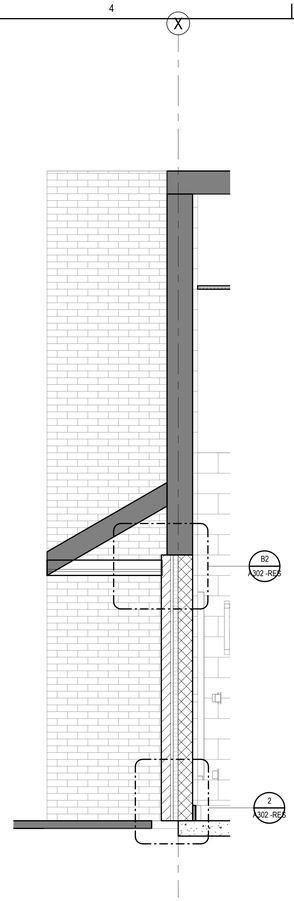
ORIGINAL SHEET - ARCH E1



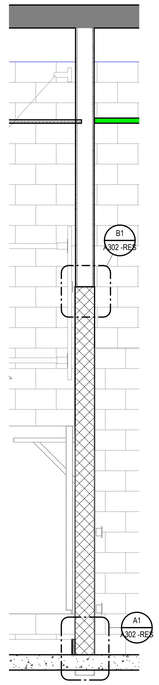
C1 BUILDING SECTION

C1 / A301 / RES — 1/4" = 1'-0"



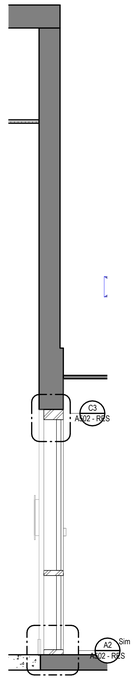
C3 WALL SECTION

C3 / A301 / RES — 1/2" = 1'-0"



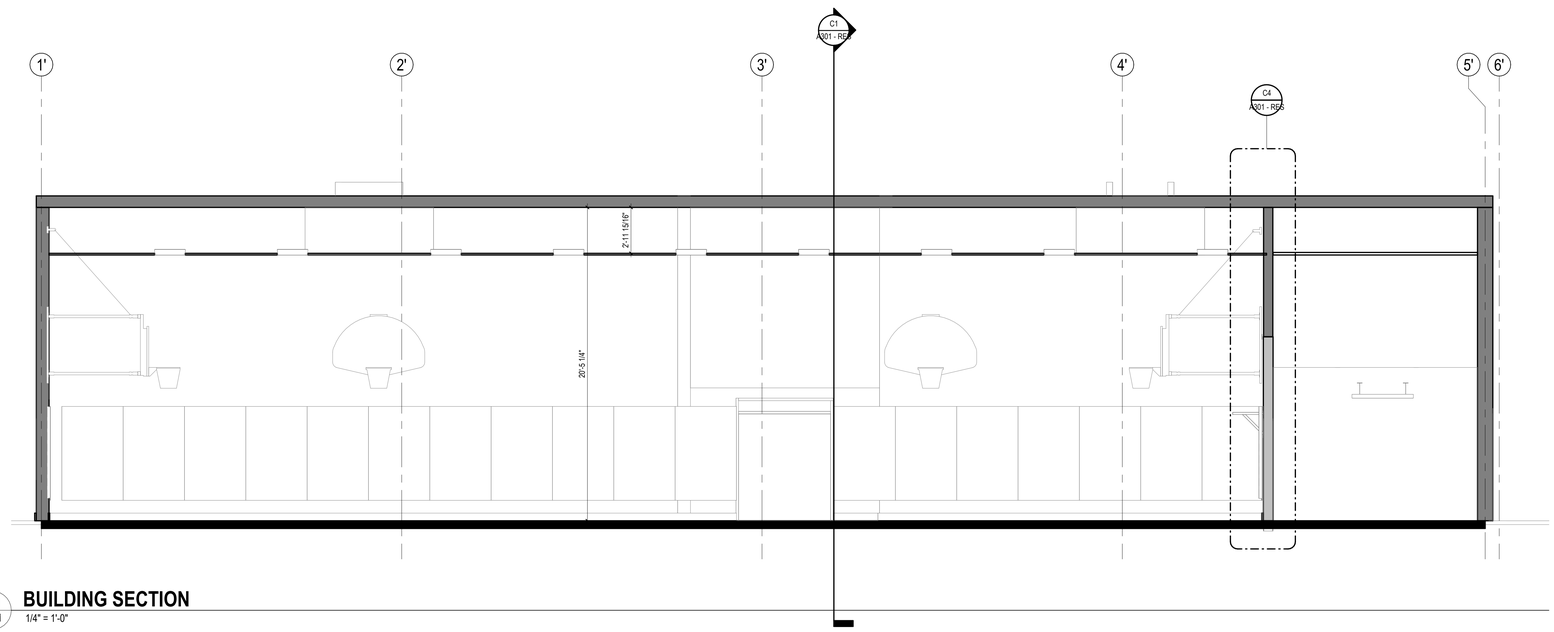
C4 WALL SECTION

C4 / A301 / RES — 1/2" = 1'-0"



C5 WALL SECTION

C5 / A301 / RES — 1/2" = 1'-0"



A1 BUILDING SECTION

A1 / A301 / RES — 1/4" = 1'-0"

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Title
WALL SECTIONS & ELEVATIONS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	A301 - RES

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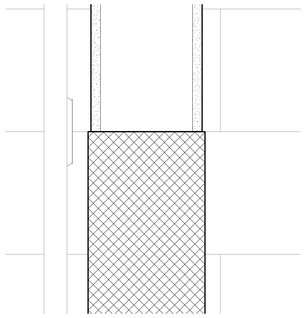
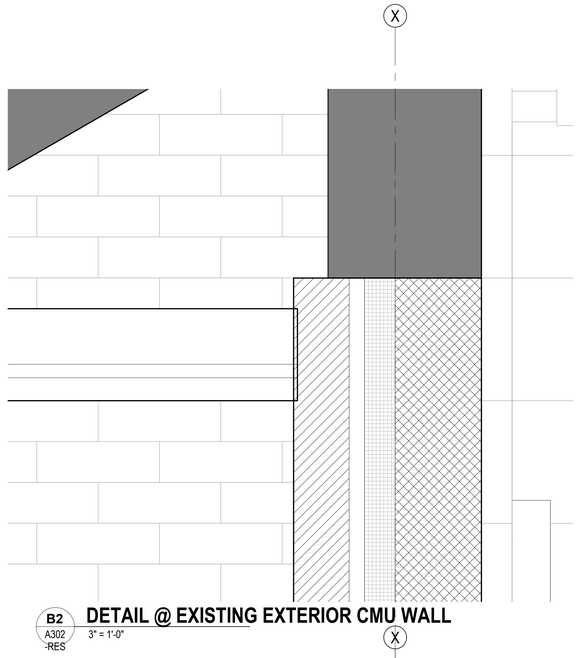
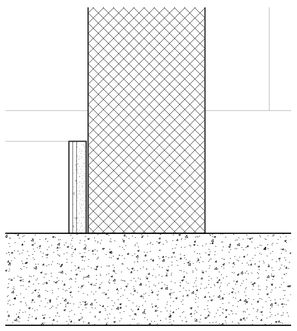
ORIGINAL SHEET - ARCH E1



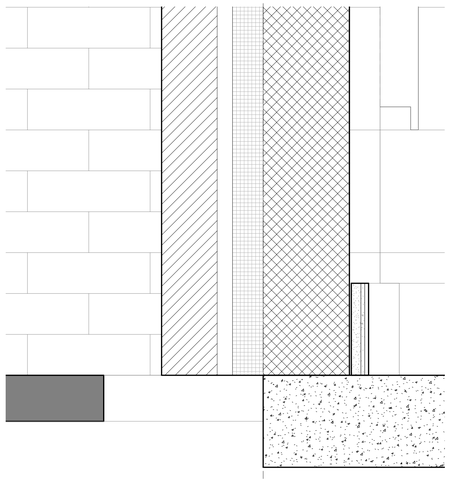
B1 A302 -RES **DETAIL @ CMU TO GYP WALL TRANSITION**
3" = 1'-0"



B2 A302 -RES **DETAIL @ EXISTING EXTERIOR CMU WALL**
3" = 1'-0"



A1 A302 -RES **DETAIL @ INTERIOR CMU**
3" = 1'-0"



2 A302 -RES **Section 2 - Callout 1 - Callout 2**
3" = 1'-0"

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Title
WALL SECTIONS DETAILS

Project No.	Scale
214001246	3" = 1'-0"
Revision	Drawing No.

A302 -RES

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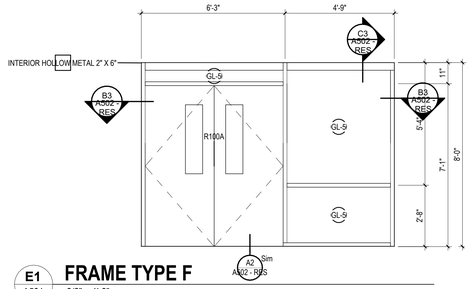
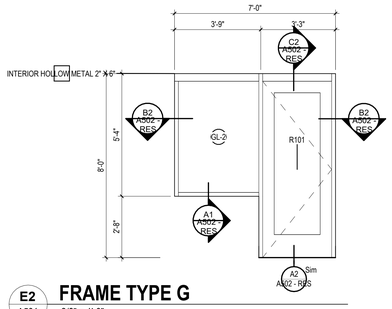
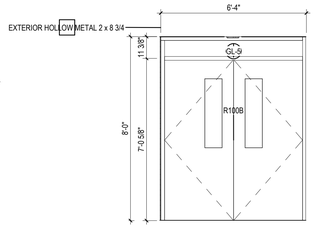
ORIGINAL SHEET - ARCH E1



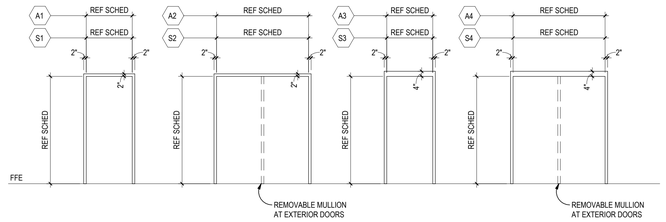
E1 A501 — **FRAME TYPE F**
3/8" = 1'-0"
RES



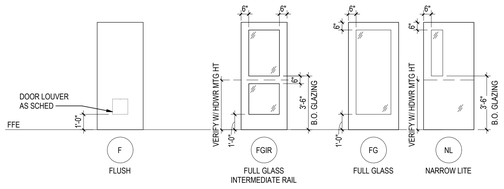
E2 A501 — **FRAME TYPE G**
3/8" = 1'-0"
RES



E3 A501 — **FRAME TYPE H**
3/8" = 1'-0"
RES

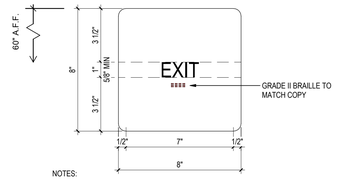


C1 A501 — **A041_DOOR FRAME TYPES**
1/4" = 1'-0"
RES



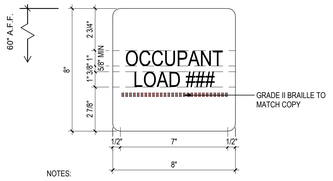
NOTES:
1. PROVIDE INSULATED LAMINATED GLAZING UNITS IN ALL EXTERIOR DOORS, UNO
2. PROVIDE ¼" CLEAR TEMPERED SAFETY GLASS IN ALL INTERIOR DOORS, UNO
3. AT DOORS MARKED AS ACOUSTICAL DOORS, PROVIDE SOUND SEALS FOR AN EQUIVALENT STC 47 DOOR
4. PROVIDE 45 MIN FIRE PROTECTIVE GLAZING IN 45 MIN RATED DOORS AND ADJOINING SIDELITES AND TRANSOMS

B1 A501 — **A041_DOOR TYPES**
1/4" = 1'-0"
RES



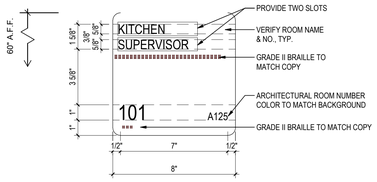
NOTES:
1. INCLUDE LOCATION SUCH AS STAIR NUMBER WHERE APPLICABLE
2. INCLUDE AREA OF REFUGE WHERE APPLICABLE, REFER TO SIGN TYPE E2

C3 A501 — **EXIT SIGN**
3" = 1'-0"
RES



NOTES:
1. PROVIDE SIGN AT EACH EXIT POINT.
2. COORDINATE ON SITE TO COMPLY WITH THE REQUIREMENTS

C4 A501 — **OCCUPANT SIGN**
3" = 1'-0"
RES



B3 A501 — **TYP. ROOM SIGN**
3" = 1'-0"
RES

DOOR SCHEDULE-BY NUMBER

NO.	ROOM NAME	ROOM NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR TYPE	DOOR MAT'L	DOOR FIN	DOOR GLAZ	FRAME Frame Type	FRAME MAT'L	FRAME FIN	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE LABEL	HDWR SET	SEC SET	DOOR COMMENTS
Level 1																			
R100A	CORRIDOR	R121	6'-0"	7'-0"	1 3/4"	NL	STL	PLAM			STL	STL		B3/A502-RES	A2/A502-RES	180			
R100B			6'-0"	7'-0"	1 3/4"	NL	STL	PNT			STL	STL			A2/A502-RES	180			1,2,3
R101	OFFICE	R101	3'-0"	7'-8"	1 3/4"	FL	STL	PLAM			STL	STL		B2/A502-RES	A2/A502-RES				
R102	GYMNASIUM	R100	3'-0"	7'-2"	1 3/4"	F	STL	PLAM		S1	STL	STL	C1/A502-RES	B1/A502-RES	A2/A502-RES				
R103	MECH.	R103	3'-0"	7'-2"	1 3/4"	F	STL	PLAM		S1	STL	STL	C1/A502-RES	B1/A502-RES	A2/A502-RES				
R104			3'-0"	7'-0"	1 3/4"	F	STL	PNT		S3	STL	STL				180			3

GLAZING LEGEND

GL-1 - 1 5/16" INSULATED LAMINATED GLAZING

GL-2 - 9/16" LAMINATED GLAZING

GL-3 - 1/4" CLEAR TEMPERED GLAZING

GL-4 5/8" FIRE RATED LAMINATED INSULATED GLAZING UNIT

GL-5 1-3/4" 45 MIN INSULATED LAMINATED GLAZING

GENERAL NOTES - DOORS AND WINDOWS:

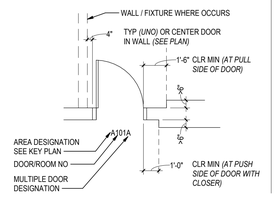
1. REFER TO SHEET A501 FOR DOOR SCHEDULE.
2. REFER TO SHEET A003 & A004 FOR LINTEL SCHEDULES AND DOOR AND WINDOW JAMB STUD FRAMING SCHEDULE
3. ALL INTERIOR DOORS TO BE 1 ¾" THICK *(UNO)*. EXTERIOR STOREFRONT DOORS SHALL BE 2" THICK, THERMALLY BROKEN. EXTERIOR HOLLOW METAL DOORS TO BE 1 ¾" THICK, INSULATED WITH THERMALLY BROKEN FRAMES
4. ALL STL FRAMES TO HAVE A 2" FACE DIMENSION UNO, W/ ⅝" STOP. ¾" STOP REQUIRED FOR FIRE RATED FRAMES.
5. STEEL FRAME DEPTHS INDICATED IN THE DETAILS ARE NOMINAL. PROVIDE STANDARD WIDTH FRAME WITH THROAT OPENING APPROPRIATE TO PARTITION TYPE.
6. COORDINATE WITH MECH DOCUMENTS FOR DOOR UNDERCUTS AND DOOR LOUVERS, IF ANY.
7. ALL LITES IN DOORS TO HAVE SAFETY GLAZING *(UNO)*.
8. EXTERIOR DOORS TO HAVE INSULATED LAMINATED GLAZING UNITS AND INTERIOR DOORS TO HAVE ½ LAMINATED GLAZING, UNO
9. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATING FRAMES.
10. PROVIDE WD BLKG IN GYP BD WALLS BEHIND DOORS SCHEDULED TO HAVE WALL MOUNTED DOOR STOPS. *(REFER HARDWARE SCHEDULE SUBMITTAL)*.
11. REFER DTLS A003 FOR TYP WINDOW AND DOOR CONTROL JOINTS IN MASONRY WALLS. REFER DTLS A004 FOR TYP WINDOW AND DOOR CONTROL JOINTS IN STEEL STUD FRAMED WALLS.
12. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR.
13. PROVIDE WATER RESISTANT TREATED WOOD BLOCKING AT WINDOW SURROUND MEMBERS AS REQUIRED FOR PROPER ATTACHMENT WHERE ALUMINUM WINDOWS ARE TO BE INSTALLED IN EXISTING MASONRY OPENINGS.
14. FIELD VERIFY DIMENSIONS OF EXISTING FRAMES TO REMAIN.
15. AT ALL EXISTING STL FRAMES WHERE DOOR SWING IS TO BE CHANGED, PATCH, REPAIR AND GRIND SMOOTH EXISTING STL DOOR FRAME. PRIME AND USE ONLY IF FRAME IS TO BE RETAINED. PAINT ACCORDING TO FINISH SCHEDULE SHEET A801.
16. DOOR HARDWARE *(CLOSERS, LEVERS, PANIC HARDWARE, ETC.)* SHALL NOT CONFLICT WITH THE GLASS OR TRIM FOR THE LITE.
17. PROVIDE 45 MIN RATED PROTECTIVE GLASS IN 45 MIN RATED DOORS, ADJOINING SIDELITES AND TRANSOMS.
18. PROVIDE 45 MIN RATED GLASS IN 1 HOUR RATED ASSEMBLIES

FRAME TYPE LEGEND:

S# STEEL (HM) FRAME TYPE

A# ALUMINUM (STOREFRONT) FRAME TYPE

DOOR MARK KEY



DOOR SCHEDULE REMARKS:

1. PROVIDE REMOVABLE MULLION.
2. REFER TO ELECTRICAL DOCUMENTS FOR POWER FOR CARD KEY ACCESS. AT DOUBLE DOORS PROVIDE ELECTRIC STRIKE AT REMOVABLE MULLION.
3. PROVIDE DRIP AT HEAD OF DOOR
4. MANUAL OPERATED, TYPICAL.
5. MOTOR OPERATED, TYPICAL. REFER TO MEP DOC.
6. PREMANUFACTURED DOOR AND FRAME ASSEMBLY. PROVIDE PLAM FACING COLOR AS SCHEDULED ON SHEET A801. REFER TO ELECTRICAL DOCUMENTS FOR HOLD-OPEN DEVICES.
7. PROVIDE LOUVER IN EA DOOR. REF MEP DOCS FOR SIZE
8. FILL, REPAIR AND PAINT EXISTING DOOR FRAME AND PROVIDE NEW HARDWARE FOR NEW DOOR *(REFER HARDWARE SCHEDULE)*
9. FIELD VERIFY ROUGH OPENING PRIOR TO DOOR FABRICATION.

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title
DOOR HARDWARE SCHEDULE, FRAME TYPES

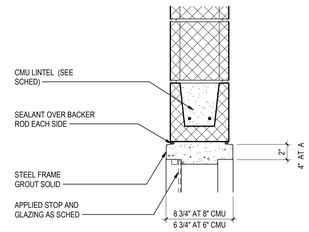
Project No. 214001246 — Scale: As indicated

Revision — Drawing No.

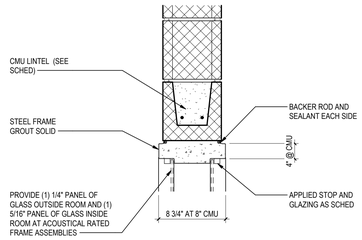
A501 - RES

<Pick location in Project Information>
1/21/2025 4:27:29 AM

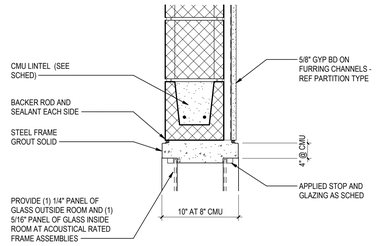
ORIGINAL SHEET - ARCH E1



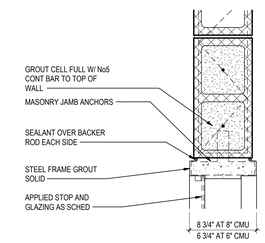
C1 A502 — **HM HEAD @ CMU**
1 1/2" = 1'-0"
RES



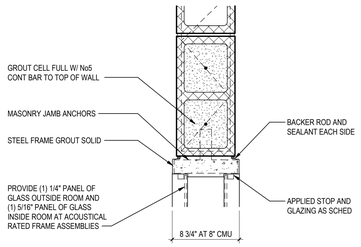
C2 A502 — **HM HEAD @ CMU_ACOUST**
1 1/2" = 1'-0"
RES



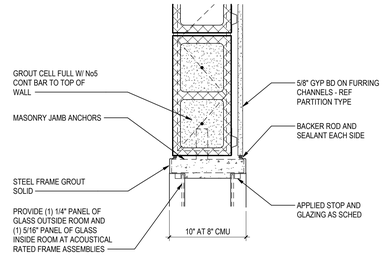
C3 A502 — **HM HEAD @ CMU_ACOUST_FURR**
1 1/2" = 1'-0"
RES



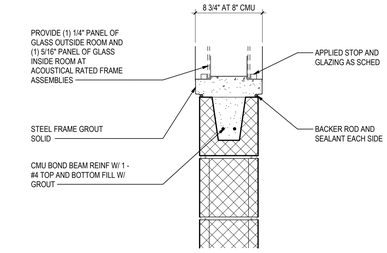
B1 A502 — **HM JAM @ CMU**
1 1/2" = 1'-0"
RES



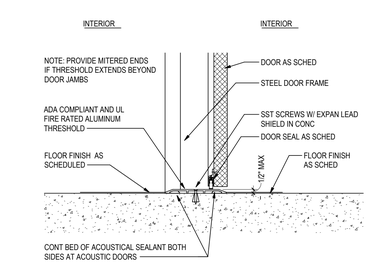
B2 A502 — **HM JAMB @ CMU_ACOUST**
1 1/2" = 1'-0"
RES



B3 A502 — **HM JAMB @ CMU_ACOUST_FURR**
1 1/2" = 1'-0"
RES



A1 A502 — **HM SILL @ CMU_ACOUST**
1 1/2" = 1'-0"
RES



A2 A502 — **SILL @ HM DOORS**
1 1/2" = 1'-0"
RES

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100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 06/01/25 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT — DANIELLE DUNN — 28295 — STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
INTERIOR HEAD, JAMB, SILL DETAILS

Project No. 214001246
Scale 1 1/2" = 1'-0"
Revision
Drawing No.

A502 - RES

Plot location in Project Information
1/31/2025 4:27:29 AM
ORIGINAL SHEET - ARCH E1

LEGEND

- NEW 2X4 LED LIGHT FIXTURE
- NO SCOPE THIS AREA

A1 / A600 COMPOSITE REFLECTED CEILING PLAN

1/16" = 1'-0"

RES

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100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	12/08/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE DINH 28296 STATE OF TEXAS

Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

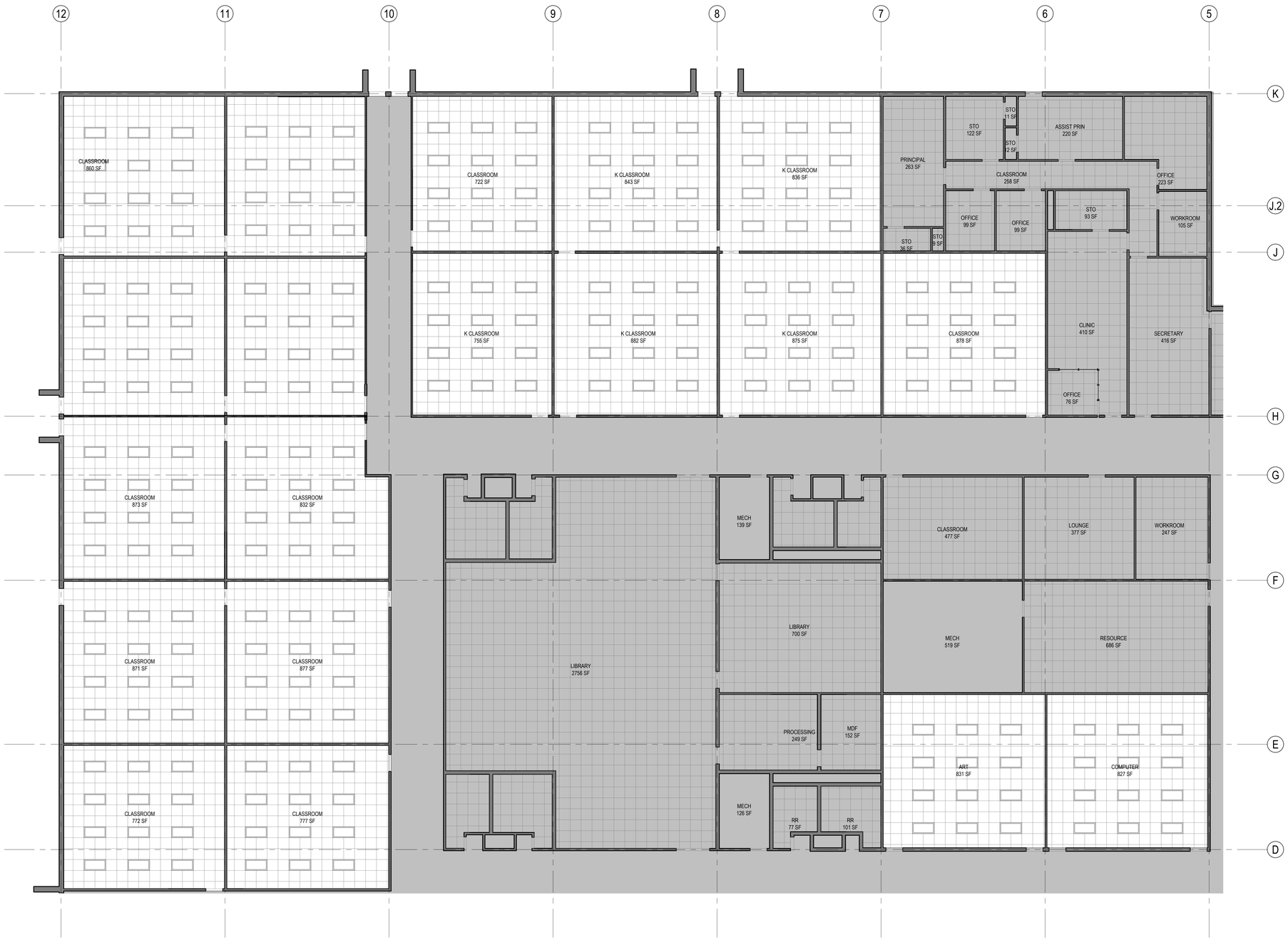
Title
REFLECTED CEILING PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A600 - RES

ORIGINAL SHEET - ARCH E1

<Pick location in Project Information>
12/5/2025 4:27:31 AM



LEGEND

- NEW 2X4 LED LIGHT FIXTURE
- NO SCOPE THIS AREA

A1 / A601 **CEILING PLAN - AREA A**

1/8" = 1'-0"

RES

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title

REFLECTED CEILING PLAN - AREA A

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A601 - RES

<Pick location in Project Information>
12/2/2025 4:27:32 AM

ORIGINAL SHEET - ARCH E1

A1 / A602 — **CEILING PLAN - AREA B**

1/8" = 1'-0"

RES

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 12/08/24 YYYY.MM.DD

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Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title

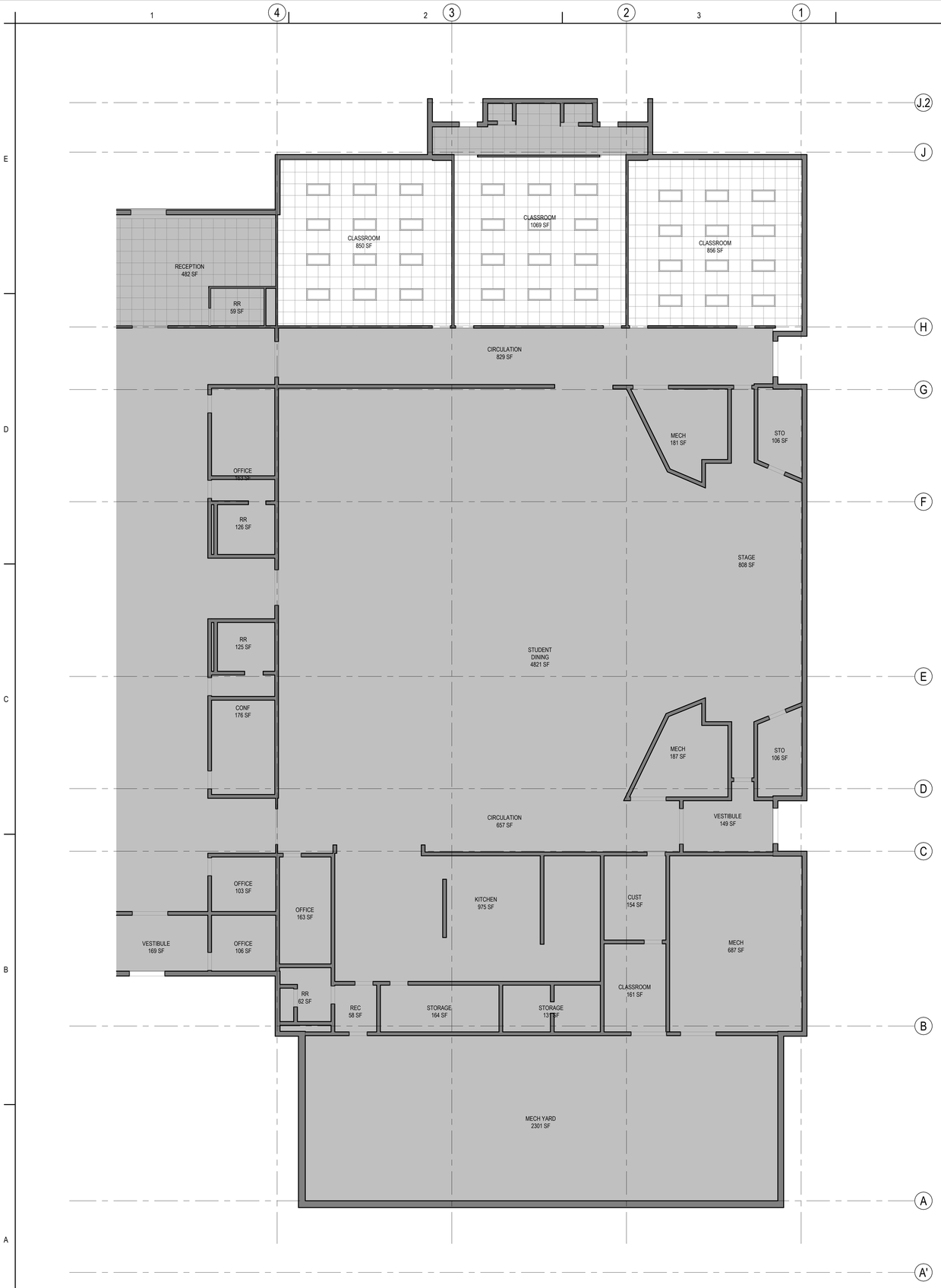
REFLECTED CEILING PLAN - AREA B

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A602 - RES

<Pick location in Project Information>
1/20/2025 4:27:53 AM

ORIGINAL SHEET - ARCH E1



A1 / A603 **CEILING PLAN - AREA C**

1/8" = 1'-0"

RES

LEGEND

- NEW 2X4 LED LIGHT FIXTURE
- NO SCOPE THIS AREA

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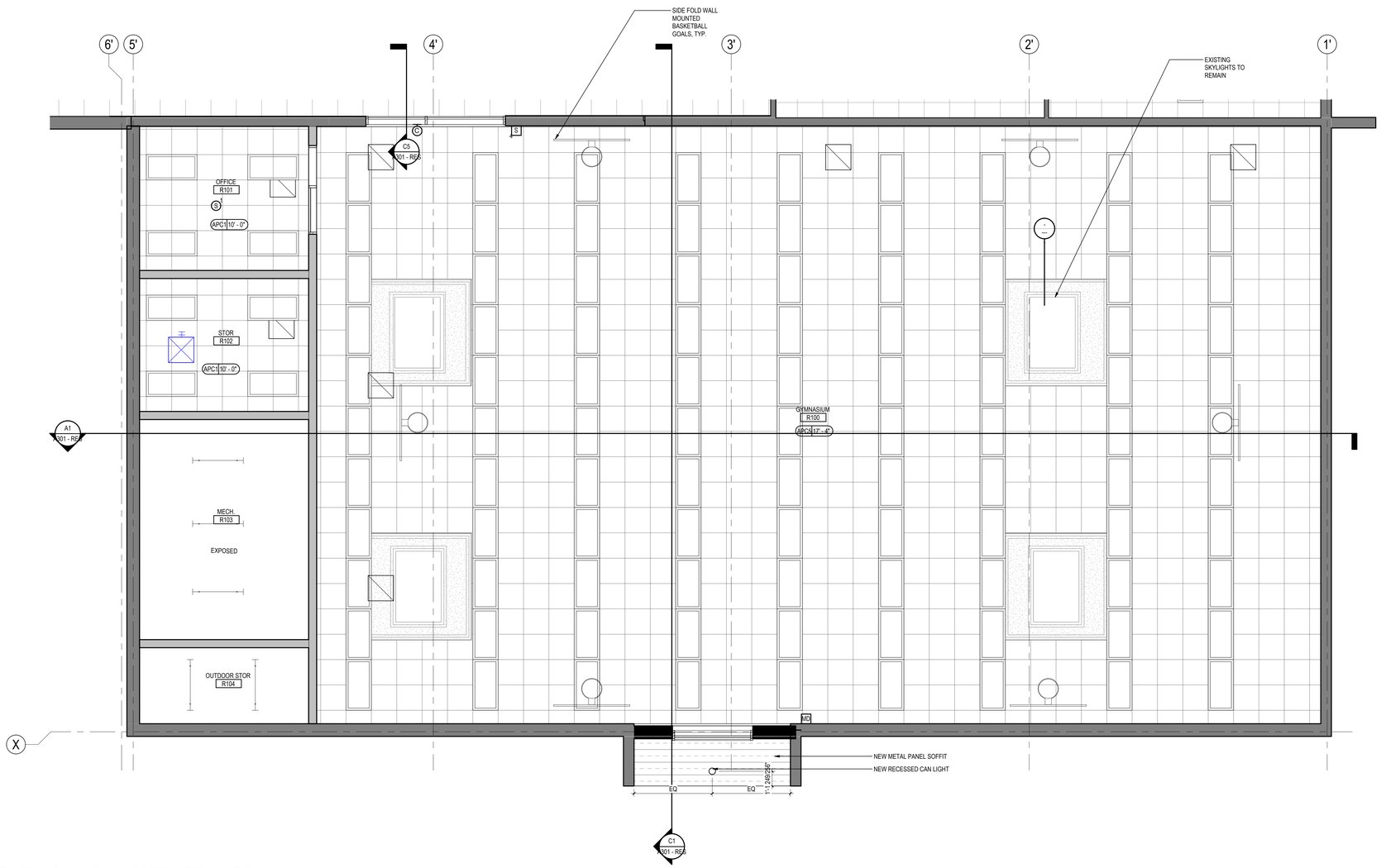
Title

REFLECTED CEILING PLAN - AREA C

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A603 - RES

ORIGINAL SHEET - ARCH D1



A1 GYMNASIUM REFLECTED CEILING PLAN

A1 / A604

1/4" = 1'-0"

RES

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28298
STATE OF TEXAS

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6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
REFLECTED CEILING PLAN - GYMNASIUM

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A604 - RES

<Pick location in Project Information>
12/5/2025 4:27:14 AM

ORIGINAL SHEET - ARCH E1

REPLACE FULL LENGTH OF CASEWORK TYP.

REPLACE FULL LENGTH OF CASEWORK TYP.

REPLACE FULL LENGTH OF CASEWORK TYP.

CLASSROOM R105 860 SF
CLASSROOM R118 739 SF
CLASSROOM R119 845 SF
CLASSROOM R120 727 SF
CLASSROOM 205 873 SF
CLASSROOM 204 832 SF
CLASSROOM 207 871 SF
CLASSROOM 206 877 SF
CLASSROOM 209 772 SF
CLASSROOM 208 777 SF
CLASSROOM 406 726 SF
CLASSROOM 405 729 SF
CLASSROOM 404 826 SF
CLASSROOM 403 876 SF
CLASSROOM 402 713 SF
CLASSROOM 515 852 SF
CLASSROOM 513 855 SF
CLASSROOM 510 855 SF
CLASSROOM 508 855 SF
ART 507 716 SF
CLASSROOM 514 632 SF
CLASSROOM 512 626 SF
CLASSROOM 511 626 SF
COMPUTER 509 676 SF
CLASSROOM 116 722 SF
K CLASSROOM 114 843 SF
K CLASSROOM 115 755 SF
K CLASSROOM 113 882 SF
K CLASSROOM 112 836 SF
K CLASSROOM 111 875 SF
CLASSROOM 110 878 SF
CLASSROOM X132 258 SF
PRINCIPAL 107 263 SF
STO 100 122 SF
STO X150 18 SF
STO X151 42 SF
ASSIST PRIN 105 220 SF
OFFICE 104 223 SF
OFFICE X147 99 SF
OFFICE X149 99 SF
STO X148 60 SF
WORKROOM 105 SF
STO A107 36 SF
STO X106 9 SF
CLINIC 102 410 SF
SECRETARY 101 416 SF
OFFICE 139 76 SF
RECEPTION 100 482 SF
CLASSROOM 602 850 SF
CLASSROOM 601 1069 SF
CLASSROOM 600 856 SF
CIRCULATION 829 SF
MECH 110 139 SF
CLASSROOM 302 477 SF
LOUNGE 303 377 SF
WORKROOM X190 247 SF
LIBRARY 300 2756 SF
LIBRARY 301 700 SF
MECH M300C 519 SF
RESOURCE 304 686 SF
PROCESSING 300A 249 SF
MDF 152 SF
MECH 112 126 SF
ART 306 831 SF
COMPUTER 305 827 SF
OFFICE 21 163 SF
RR 126 SF
RR 125 SF
CONF 20 176 SF
STUDENT DINING 603 4821 SF
MECH 22 181 SF
STO 58 106 SF
STAGE 808 SF
MECH 23 187 SF
STO 59 106 SF
VESTIBULE 89 149 SF
CIRCULATION 657 SF
OFFICE 19 103 SF
OFFICE 18 163 SF
OFFICE 56 106 SF
VESTIBULE 57 169 SF
KITCHEN 975 SF
CUST 87 154 SF
MECH 55 687 SF
REC 97 58 SF
STORAGE 90 164 SF
STORAGE 91 133 SF
CLASSROOM 88 161 SF
MECH YARD 54 2301 SF
SCIENCE 401 714 SF
MUSIC 400 869 SF
CORRIDOR 62 2143 SF
BOOKROOM 306 211 SF
MECH X112 308 SF
OFFICE R101 120 SF
STOR R102 140 SF
MECH. R103 232 SF
OUTDOOR STORAGE R104 80 SF
GYMNASIUM R100 3747 SF

B1 A712 - RES
B2 A712 - RES
C1 A712 - RES
C2 A712 - RES
C3
C4
A3 A712 - RES
A2 A712 - RES
A1 A712 - RES
B3 A712 - RES
A822 - RES
A822 - RES
A822 - RES
A821 - RES
A821 - RES
A821 - RES
A821 - RES
A501 - RES
A201 - RES
A501 - RES

A1 A711 - RES
FURNISHINS AND EQUIPMENT PLAN - CASEWORK
3/32" = 1'-0"

*Pick location in Project Information
1/20/2025 4:27:36 AM

ORIGINAL SHEET - ARCH E1

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File Name: N/A	Author Own.	Designer Dsgn.	Checker Chkd. 11/12/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE DUNN 28298 STATE OF TEXAS

Client/Project Logo

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Client/Project
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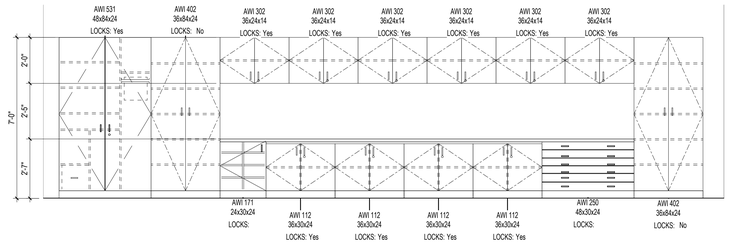
FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
FURNISHINGS AND EQUIPMENT PLAN - CASEWORK

Project No.	Scale
214001246	3/32" = 1'-0"
Revision	Drawing No.

A711 - RES

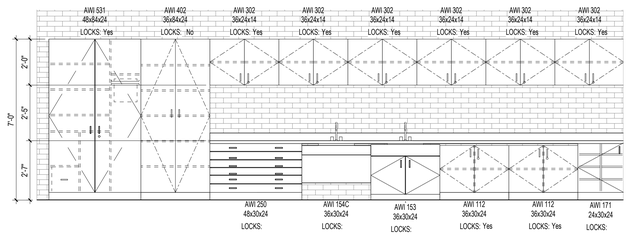


C1 CASEWORK ELEVATION - MUSIC

A712

3/8" = 1'-0"

RES

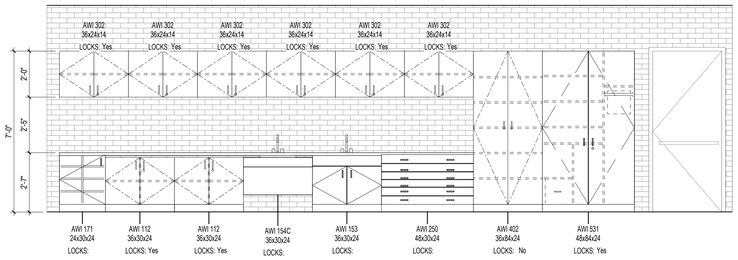


B1 CASEWORK ELEVATION - CLASSROOM 116

A712

3/8" = 1'-0"

RES

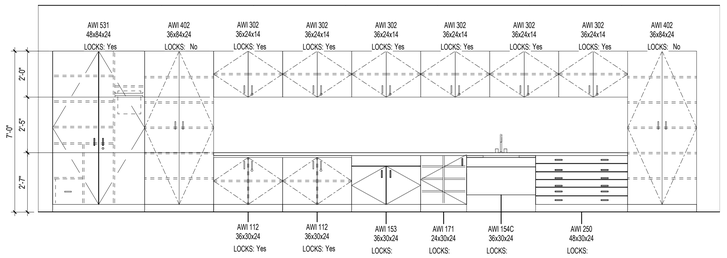


B2 CASEWORK ELEVATION - CLASSROOM 114

A712

3/8" = 1'-0"

RES

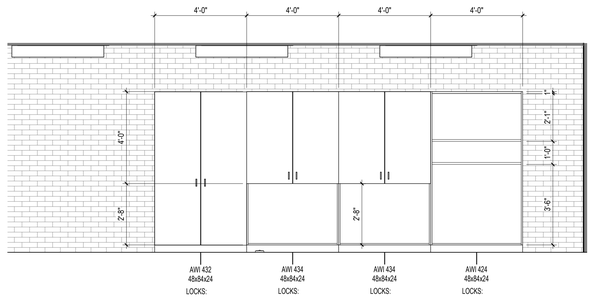


B3 CASEWORK ELEVATION - ART

A712

3/8" = 1'-0"

RES

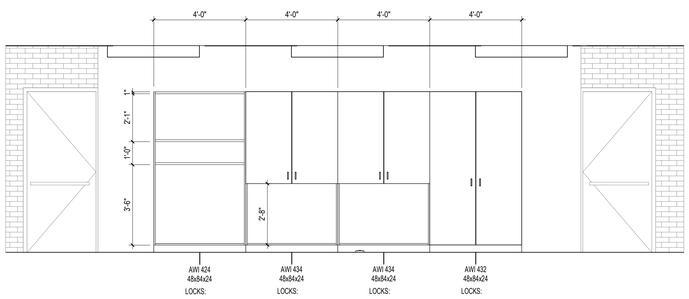


A1 CASEWORK ELEVATION - CLASSROOM 600

A712

3/8" = 1'-0"

RES

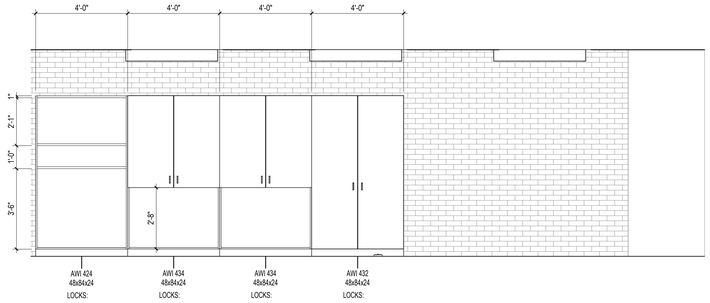


A2 CASEWORK ELEVATION - CLASSROOM 601

A712

3/8" = 1'-0"

RES



A3 CASEWORK ELEVATION - CLASSROOM 602

A712

3/8" = 1'-0"

RES

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Issued	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/12/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

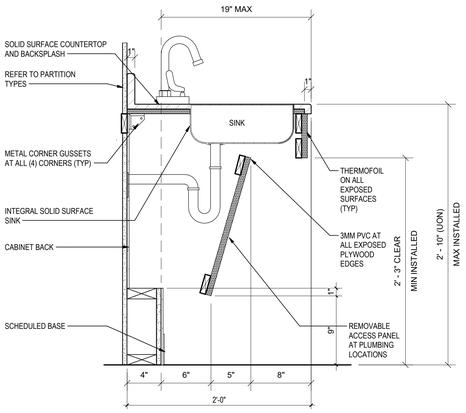
CASEWORK ELEVATIONS

Project No.	Scale
214001246	3/8" = 1'-0"
Revision	Drawing No.

A712 - RES

ORIGINAL SHEET - ARCH E1

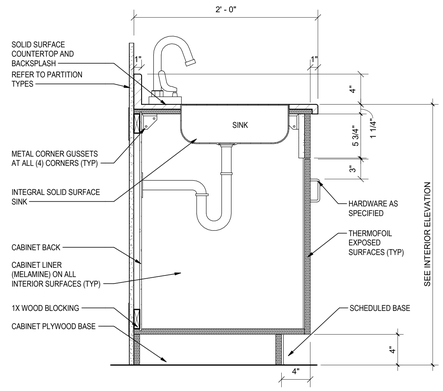
File location in Project Information
9/22/2025 6:27:38 AM



B1 A713 — **INTEGRAL ADA SINK SECTION**

1 1/2" = 1'-0"

RES



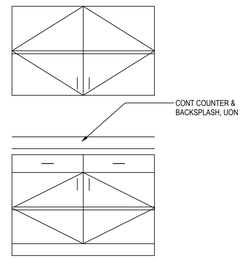
B2 A713 — **INTEGRAL SINK SECTION**

1 1/2" = 1'-0"

RES

CASEWORK KEY

MODEL#
WIDTHxHEIGHTxDEPTH
REMARKS
ADDITIONAL REMARKS



MODEL#
WIDTHxHEIGHTxDEPTH
REMARKS
ADDITIONAL REMARKS

NOTE:

1. GENERAL CASEWORK MODEL NUMBERS REFERENCE THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) AS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ACCEPTABLE CASEWORK MANUFACTURERS.

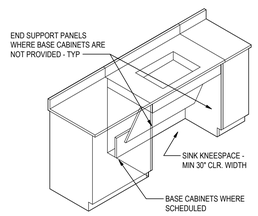
2. BASE CABINET HEIGHT IS GIVEN TO THE TOP OF COUNTER TOP, UON.

3. REFER TO SHEET A801 FOR COLOR SCHED, NOTES, AND FINISHES, TYP.

B3 A713 — **Drafting 1**

1 1/2" = 1'-0"

RES



ISOMETRIC

NTS

2 A713 — **A751_ACCESSIBLE_KNEE_ISOMETRIC**

1" = 1'-0"

RES

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Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author: Dwn.	Designer: Dsgn.	Checker: Chkd. 11/12/24 YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT DANIELLE DUNN 28298 STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

CASEWORK & FEC DETAILS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A713 - RES

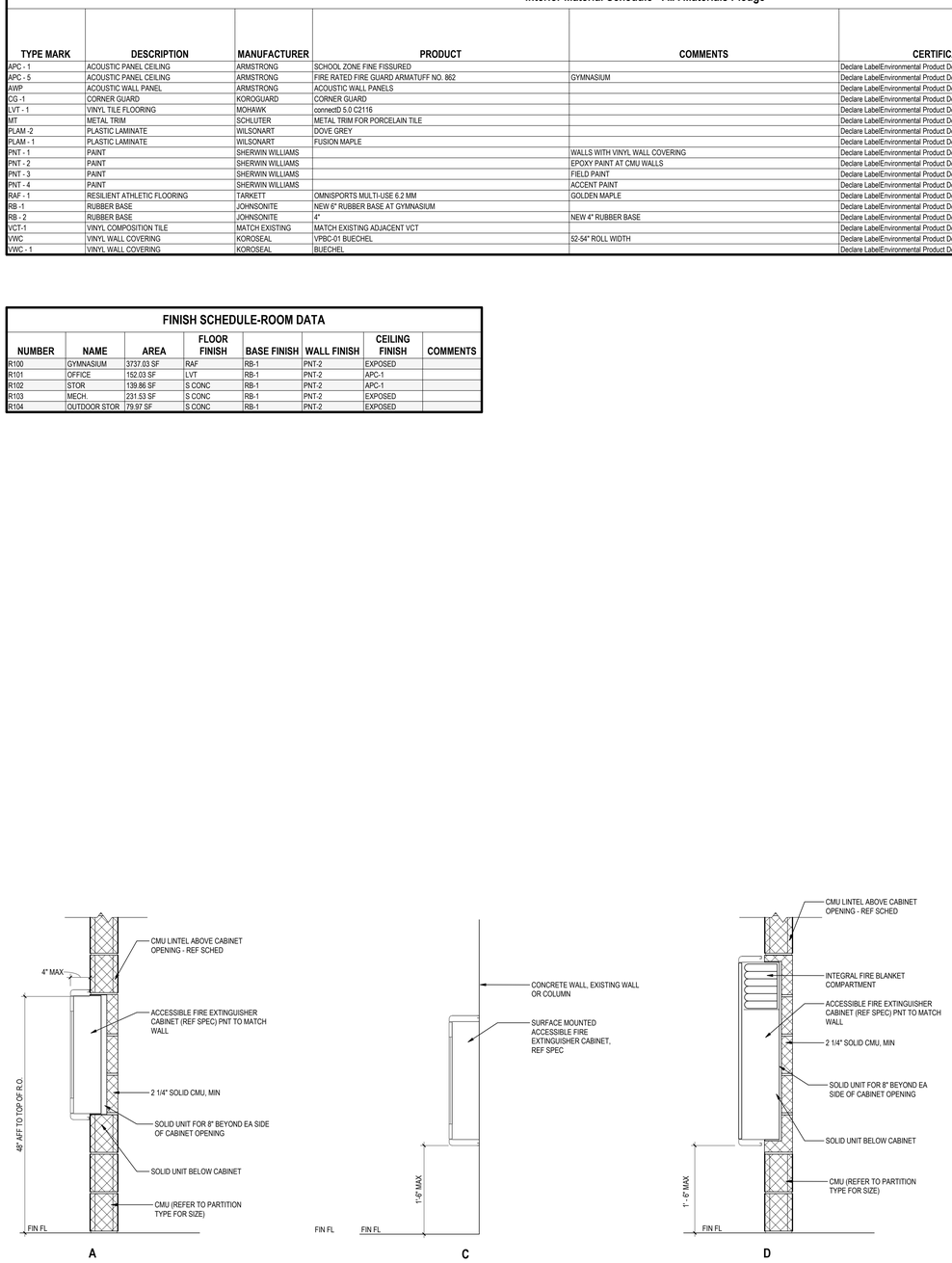
ORIGINAL SHEET - ARCH E1

Interior Material Schedule - AIA Materials Pledge

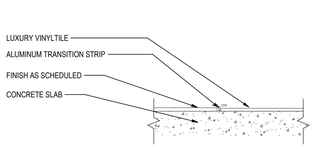
TYPE MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COMMENTS	CERTIFICATIONS	AIA MATERIALS PLEDGE				
						Human Health	Social Health & Equity	Ecosystem Health	Climate Health	Circular Economy
APC - 1	ACOUSTIC PANEL CEILING	ARMSTRONG	SCHOOL ZONE FINE FISSURED		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
APC - 5	ACOUSTIC PANEL CEILING	ARMSTRONG	FIRE RATED FIRE GUARD ARMATUFF NO. 862	GYMNASIUM	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
AWP	ACOUSTIC WALL PANEL	ARMSTRONG	ACOUSTIC WALL PANELS		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
CG -1	CORNER GUARD	KOROGUARD	CORNER GUARD		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
LVT - 1	VINYL TILE FLOORING	MOHAWK	connectD 5.0 C2116		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
MT	METAL TRIM	SCHLUTER	METAL TRIM FOR PORCELAIN TILE		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PLAM -2	PLASTIC LAMINATE	WILSONART	DOVE GREY		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PLAM - 1	PLASTIC LAMINATE	WILSONART	FUSION MAPLE		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 1	PAINT	SHERWIN WILLIAMS		WALLS WITH VINYL WALL COVERING	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 2	PAINT	SHERWIN WILLIAMS		EPOXY PAINT AT CMU WALLS	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 3	PAINT	SHERWIN WILLIAMS		FIELD PAINT	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
PNT - 4	PAINT	SHERWIN WILLIAMS		ACCENT PAINT	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RAF - 1	RESILIENT ATHLETIC FLOORING	TARKETT	OMNISPORTS MULTI-USE 6.2 MM	GOLDEN MAPLE	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RB -1	RUBBER BASE	JOHNSONITE	NEW 6" RUBBER BASE AT GYMNASIUM		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
RB - 2	RUBBER BASE	JOHNSONITE	4"	NEW 4" RUBBER BASE	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
VCT-1	VINYL COMPOSITION TILE	MATCH EXISTING	MATCH EXISTING ADJACENT VCT		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
VWC	VINYL WALL COVERING	KOROSEAL	VPBC-01 BUECHEL	52-54" ROLL WIDTH	Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•
VWC -1	VINYL WALL COVERING	KOROSEAL	BUECHEL		Declare LabelEnvironmental Product DeclarationHealth Product Declaration	•	•	•	•	•

FINISH SCHEDULE-ROOM DATA

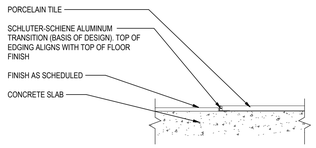
NUMBER	NAME	AREA	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
R100	GYMNASIUM	3737.03 SF	RAF	RB-1	PNT-2	EXPOSED	
R101	OFFICE	152.03 SF	LVT	RB-1	PNT-2	APC-1	
R102	STOR.	139.86 SF	S CONC	RB-1	PNT-2	APC-1	
R103	MECH.	231.53 SF	S CONC	RB-1	PNT-2	EXPOSED	
R104	OUTDOOR STOR.	79.97 SF	S CONC	RB-1	PNT-2	EXPOSED	



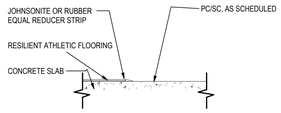
B1 A800 FIRE EXTINGUISHERS
1" = 1'-0"
RES



A1 A800 FLOOR TRANSITION RAF TO LVT
3" = 1'-0"
RES



A2 A800 FLOOR TRANSITION RAF TO PT
3" = 1'-0"
RES



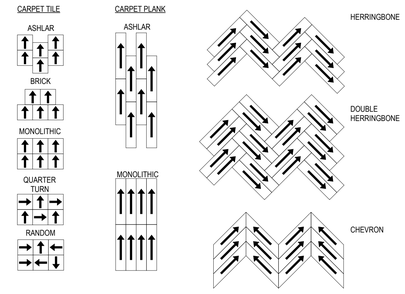
A3 A800 FLOOR TRANSITION RAF TO SCONC
1" = 1'-0"
RES

GENERAL NOTES - INTERIOR FINISH AND COLOR SCHEDULE:

1. MANUFACTURERS NAMES AND IDENTIFICATION NUMBERS ARE LISTED AS A MEANS OF ESTABLISHING A STANDARD OF TYPE, FUNCTION, COLOR, AND QUALITY. REFER TO PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS & PROCEDURES.
2. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SAMPLE OF ALL FINISH MATERIALS FOR APPROVAL BEFORE MATERIALS ARE APPLIED ON THE JOB.
3. VERIFY ALL GRAPHICS WITH THE ARCHITECT BEFORE PAINTING. GRAPHICS MAY NEED TO BE ADJUSTED AFTER ENLARGING TO REFLECT THE SAME COMPOSITION AS ON THE DRAWINGS.
4. IF REQUESTED THE ARCHITECT WILL PROVIDE 8 1/2" X 11" CLEAR ACETATE OR MYLAR OF DETAILED MURAL GRAPHICS FOR PROJECTION ON WALL.
5. TERMINATE ALL ACCENT PAINTS & VINYL WALL COVERING ON INSIDE CORNERS ONLY UNLESS OTHERWISE INDICATED.
6. PAINT ALL INTERIOR & EXTERIOR EXPOSED PIPING. VERIFY COLOR W/ ARCHITECT.
7. PAINT ANY VENTS, GRILLES, PIPING, FEC, ETC... SAME COLOR AS ADJACENT WALL.

XX1 ——— COLORS WILL BE MARKED AS SHOWN. NOTE ALL COLORS MAY NOT BE MARKED ON PLANS. MATERIALS NOT NOTED WILL BE COVERED UNDER GENERAL NOTES OR WILL BE PICKED ON THE JOB BY THE ARCHITECT.

8. ALL CARPET SHALL BE MARK "CPT-1"
9. UNDESIGNATED PAINTED GYPSUM BOARD WALLS TO BE FIELD PAINT "PNT-1".
10. UNDESIGNATED PAINTED CMU WALLS TO BE MARK EPOXY FIELD PAINT "PNT-2".
11. ALL INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED TO MATCH ACCENT PAINT "PNT-3" (U.O.N.). ALL VISION PANEL FRAMES IN INTERIOR DOORS TO MATCH ACCENT PAINT "PNT-3".
12. ALL MISC. CASE WORK SHALL BE MARK "PL-1".
13. ALL WALLS SCHEDULED IN RESTROOMS TO RECEIVE PORCELAIN TILE :
14. FLOOR TILE IN ALL BOYS, GIRLS, AND TLT ROOMS SHALL BE PORCELAIN
15. ALL EXPOSED STRUCTURAL STEEL INCLUDING ROOF DECK, JOISTS, GIRDERS, BEAMS AND ANY MISC. STEEL SHALL BE PAINTED MARK "PNT-1". DUCTS, DIFFUSERS AND AIR HANDLING UNITS SHALL BE GALVANIZED METAL.
16. REFER TO DRAWING A901 FOR GAME LINES, COLORS, SIZE AND LOCATION.
17. LOW PROFILE TRANSITION STRIPS TO BE PLACED AT ANY FLOORING MATERIAL CHANGE.
18. METAL LOW PROFILE TRANSITION STRIPS TO BE PLACED AT ANY FLOORING MATERIAL CHANGE ADJACENT TO PT.
19. REFER TO FINISH SCHEDULE FOR PT-1 GROUT TYPE IN ALL BATHROOM
20. CERAMIC WALL/FLOOR TILE GROUT SHALL BE GT-1.
21. SEAL ALL EXPOSED JOINTS BETWEEN DISSIMILAR MATERIALS INCLUDING, BUT NOT LIMITED TO: BETWEEN WALLS AND CASEWORK; MILLWORK, WINDOW SILLS, BACKSPLASHES, PLUMBING FIXTURES, FIRE EXTINGUISHER CABINETS; WINDOW SILLS TO WINDOW FRAMES; RESILIENT FLOORING TO STAIR STRINGERS AND RISERS; BACKSPLASHES TO COUNTER TOPS; ETC. VERIFY SEALANT TYPE AND COLOR FOR EACH APPLICATION WITH ARCHITECT PRIOR TO INSTALLATION.



C5 A800 INSTALLATION METHOD
12" = 1'-0"
RES

GENERAL NOTES - FURNISHING AND EQUIPMENT:

1. MODEL NUMBERS/MFR'S ARE LISTED ON CASEWORK ELEVATIONS SO THAT A MINIMUM DESIGN BASIS MAY BE ESTABLISHED. THE DIMENSIONS SHOWN (WXHXD) MAY DIFFER FROM THE SELECTED MFR'S STANDARD DIMENSIONS FOR THE LISTED MODEL NUMBERS.
2. PROVIDE SIDE, TOP, AND BOTTOM FILLER PIECES AS REQ'D TO COMPLETE CASEWORK INDICATED ON PLANS.
3. ALL FLOOR MOUNTED FIXTURES ARE TO HAVE THE SAME FINISH FACE MATERIAL AS THE ROOM IN WHICH THEY ARE LOCATED.
4. BLIND CABINETS, AT CORNERS, ARE TO BE LEFT OR RIGHT HAND AS REQ'D PER PLAN.
5. ALL CABINETS TO HAVE PLASTIC LAMINATE THROUGHOUT, INCLUDING ALL EXPOSED SUFACES INSIDE AND OUT.
6. PROVIDE PLASTIC LAMINATE FINISHED END PANELS AT EXPOSED CABINET ENDS INCLUDING KNEESPACES (TYP).
7. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF ANY FIXTURES.
8. BOOKCASES AND SHELVES TO HAVE FRONT FACING SURFACE OF BACK PANEL TO WATCH FINISH OF REMAINDER OF BOOKCASE.
9. COUNTERTOPS TO HAVE PLASTIC LAMINATE SURFACE W/ 4" HIGH BACKSPLASH TYP, UON.
10. PROVIDE KEYED LOCKS AT CABINET DOORS AND DRAWERS, WHERE INDICATED.
11. PROVIDE MFR'S STANDARD PENCIL DRAWER INSERT AT KNEESPACE UNITS W/ STANDARD DRAWERS (NOT KEYBOARD DRAWERS (UON).
12. PROVIDE CORNER GUARDS FROM TOP OF BASE TO TOP OF DOOR FRAME: PROVIDE FIRE RATED CORNER GUARD AT RATED WALLS (MODEL NUMBERS ARE NON RATED) MFR'S BY IN-PRO CORP, (DESIGN BASIS).

. SURFACE STYLE:
STAINLESS STEEL:
ALL OUTSIDE CORNERS OF GYPSUM BOARD CONST- 2X2X16 GA (TYPE 304) (SURFACE)
VINYL - TYPE 150BN 2X2 (SURFACE)

13. SHELVES SHALL BE ADJUSTABLE (UON). SHELVES OVER 36" IN LENGTH SHALL BE 1" THICK.
14. PROVIDE 4' -0" TALL TACKBOARDS, AND MARKERBOARDS (UON). BOARDS SHALL BE IN THE SAME FRAME WHEN ADJACENT.
15. MKBDS, AND TKBDS TO HAVE CONT TACKSTRIPS AND PEN TROUGHS (UON). TACKSTRIPS TO HAVE MAP HOOKS (UON).
16. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL INTERIOR WINDOWS (UON).
17. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL EXTERIOR WINDOWS, EXCEPT WINDOWS SHARING A FRAME WITH A DOOR (UON).

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Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	11/12/24 YYYY.MM.DD

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Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
INTERIOR MATERIAL SCHEDULE

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A800 - RES

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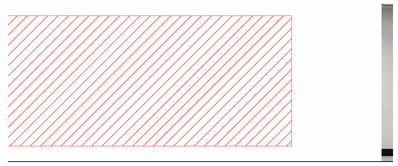
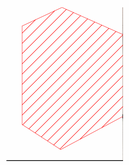
ORIGINAL SHEET - ARCH E1



E1 A801 — **RE-COVER VINYL**

RES



E3 A801 — **RE-COVER VINYL**

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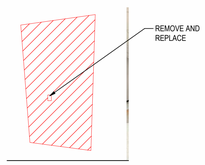

E4 A801 — **RE-COVER VINYL**

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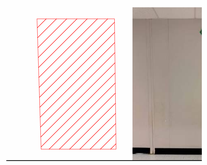

E5 A801 — **RE-COVER VINYL**

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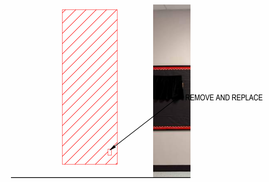

E6 A801 — **RE-COVER VINYL**

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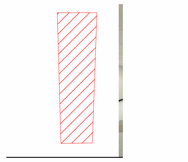

D1 A801 — **RE-COVER VINYL**

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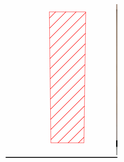
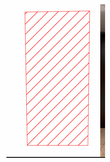


D2 A801 — **RE-COVER VINYL**

RES

D3 A801 — **RE-COVER VINYL**

RES



D4 A801 — **RE-COVER VINYL**

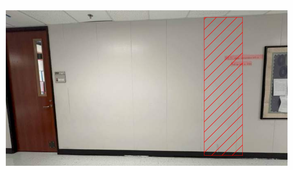
RES

D5 A801 — **RE-COVER VINYL**

RES

C1 A801 — **RE-COVER VINYL**

RES



C2 A801 — **RE-COVER VINYL**

1/4" = 1'-0"

RES

C3 A801 — **RE-COVER VINYL**

1/4" = 1'-0"

RES

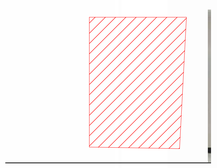
C4 A801 — **RE-COVER VINYL**

1/4" = 1'-0"

RES

C5 A801 — **RE-COVER VINYL**

RES

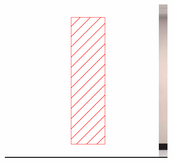


C6 A801 — **RE-COVER VINYL**

RES

C7 A801 — **RE-COVER VINYL**

RES



B1 A801 — **RE-COVER VINYL**

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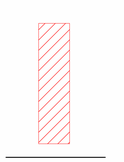
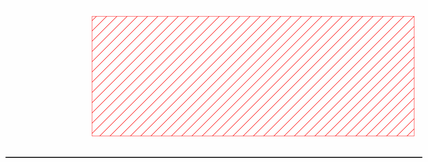


B2 A801 — **RE-COVER VINYL**

RES

B3 A801 — **RE-COVER VINYL**

RES



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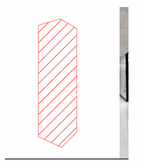

A1 A801 — **RE-COVER VINYL**

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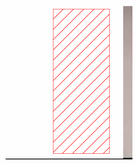
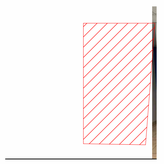


A2 A801 — **RE-COVER VINYL**

RES

A3 A801 — **RE-COVER VINYL**

RES

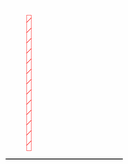


A4 A801 — **RE-COVER VINYL**

RES

A5 A801 — **RE-COVER VINYL**

RES



A6 A801 — **RE-COVER VINYL**

RES

LEGEND

COVER DAMAGED PANELS WITH NEW VWC.
(90 PANELS APROX.) GC TO VERIFY IN FIELD.

VWC - REFER TO MATERIAL SCHEDULE A800

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
EXISTING CLASSROOM BUILDING - DAMAGED VINYL IMAGES

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

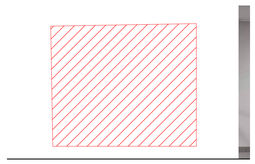
A801 - RES

<Plot location in Project Information>
1/20/2025 4:28:54 AM

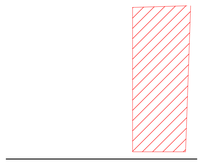
ORIGINAL SHEET - ARCH E1

LEGEND
COVER DAMAGED PANELS WITH NEW VWC. **(90 PANELS APROX.) GC TO VERIFY IN FIELD.**
VWC - REFER TO MATERIAL SCHEDULE A800

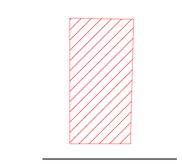
GENERAL NOTES
1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.



B1 A802 — **RE-COVER VINYL**
RES



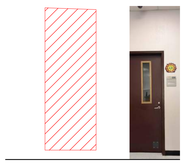
B2 A802 — **RE-COVER VINYL**
RES



B3 A802 — **RE-COVER VINYL**
RES

B4 A802 — **RE-COVER VINYL**
RES

B5 A802 — **RE-COVER VINYL**
RES



A1 A802 — **RE-COVER VINYL**
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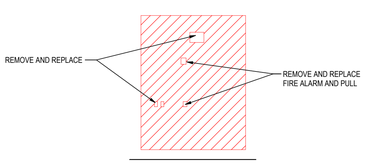

A2 A802 — **RE-COVER VINYL**
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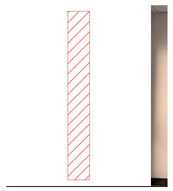

A3 A802 — **RE-COVER VINYL**
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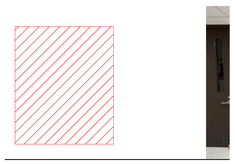

A4 A802 — **RE-COVER VINYL**
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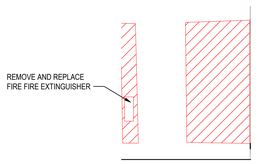

A5 A802 — **RE-COVER VINYL**
RES

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Revision	By	Appd	YYYY.MM.DD

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Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
EXISTING CLASSROOM BUILDING - DAMAGED VINYL IMAGES

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

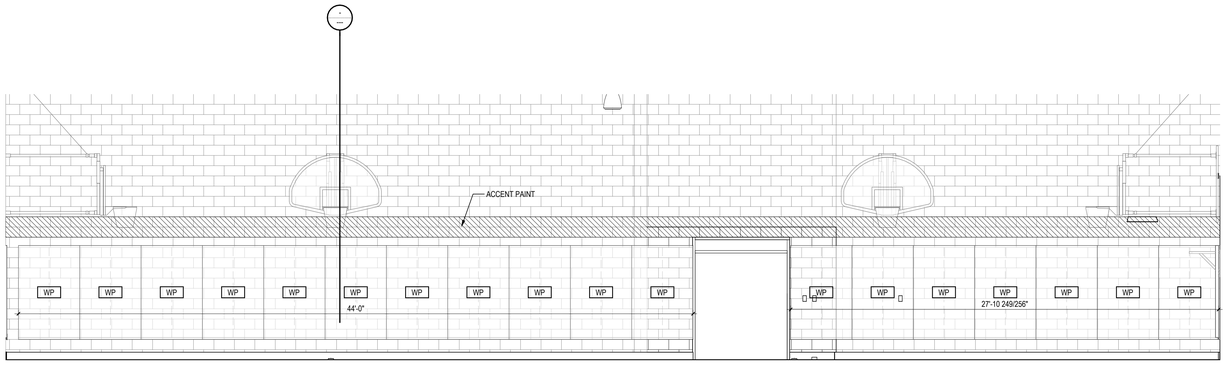
A802 - RES

*Pick location in Project Information
1/20/2023 4:28:11 AM
ORIGINAL SHEET - ARCH E1

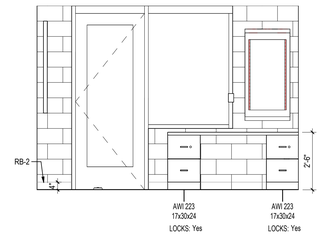
GENERAL NOTES - ROOM FINISHES:

1. (#) IN REMARKS COLUMN OF ROOM FINISH SCHEDULE REFERENCES THE SPECIFIC ROOM FINISH SCHEDULE REMARKS.
2. COORDINATE INTERIOR FINISHES WITH PARTITION TYPES.
3. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR (UON)
4. PAINT EXPOSED JOISTS, DECK, & ALL MISC. ITEMS, TYP. REFER TO GENERAL FINISH SCHEDULE NOTES ON A801
5. REFER TO LIGHTING PLANS & REFLECTED CEILING PLAN SHEETS FOR ACP TYPE/HEIGHT, CEILING GRID LAYOUT & BULKHEAD LOCATIONS (U.O.N.). REFER MEP DOCS.
6. ALL SUSPENDED GYP. BD. TO BE PAINTED. REFER REFLECTED CEILING PLANS AND GENERAL FINISH SCHEDULE NOTES ON A601.
7. SEE FLOOR PATTERN PLANS FOR EXTENTS AND TYPE OF FLOORING FINISHES
8. ALL CMU TO BE PAINTED. REFER GENERAL FINISH SCHEDULE NOTES ON A801

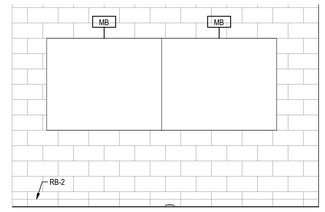
11. BLOCK FILL AND PAINT ALL WALLS TO DECK AND BEHIND ACOUSTICAL WALL PANELS, TYP.



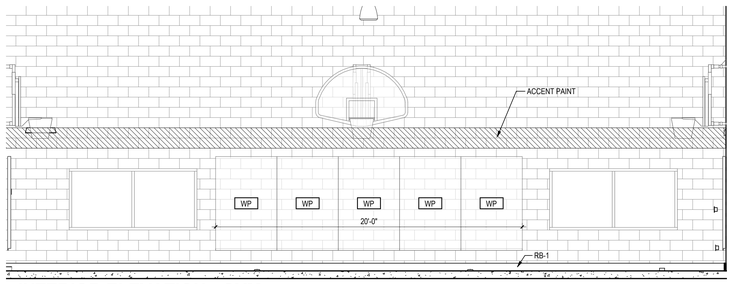
D1 / A821 — **INTERIOR ELEVATION - GYM**
1/4" = 1'-0"
RES



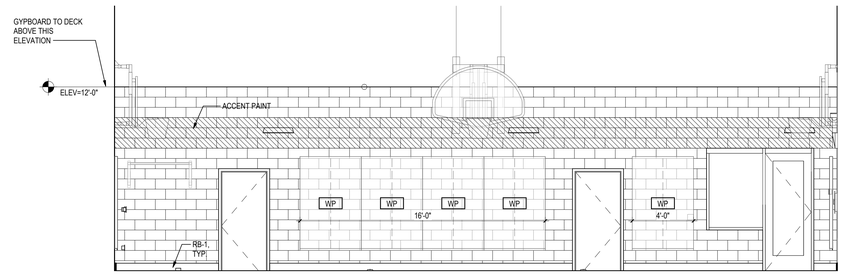
D2 / A821 — **INTERIOR ELEVATION**
3/8" = 1'-0"
RES



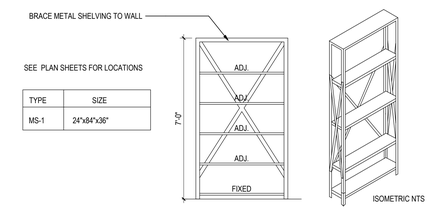
D3 / A821 — **INTERIOR ELEVATION**
3/8" = 1'-0"
RES



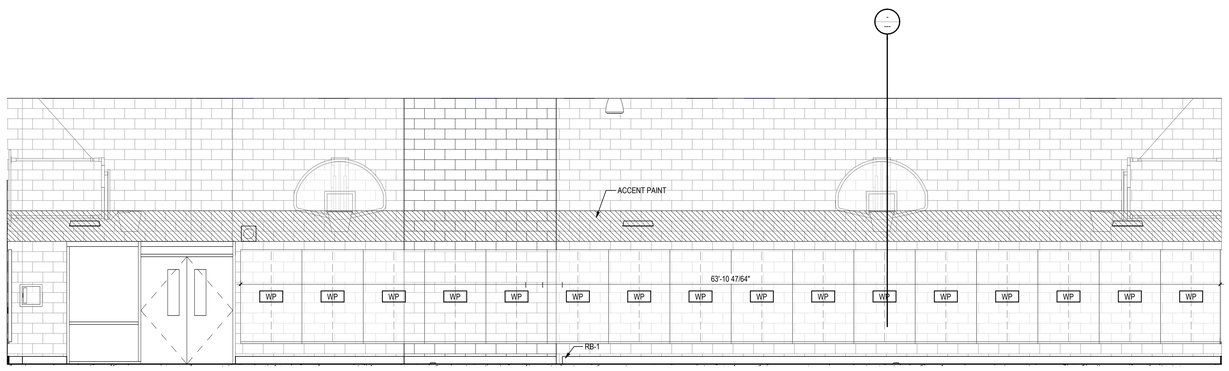
B1 / A821 — **INTERIOR ELEVATION - GYM**
1/4" = 1'-0"
RES



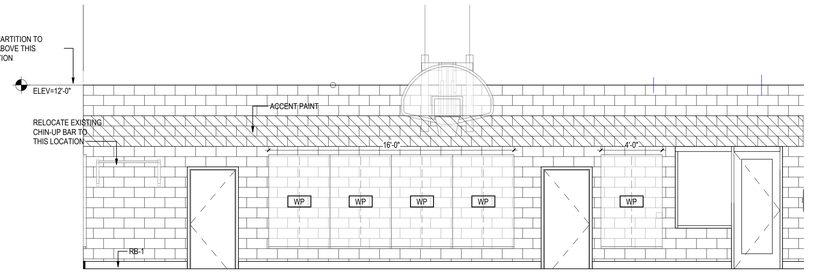
B2 / A821 — **INTERIOR ELEVATION - GYM**
1/4" = 1'-0"
RES



B3 / A821 — **METAL SHELVING**
3/8" = 1'-0"
RES



A1 / A821 — **INTERIOR ELEVATION - GYM**
1/4" = 1'-0"
RES



A2 / A821 — **INTERIOR ELEVATION - GYM**
1/4" = 1'-0"
RES

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File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	06/01/25 YYYY.MM.DD

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Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

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Title
INTERIOR ELEVATIONS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A821 - RES

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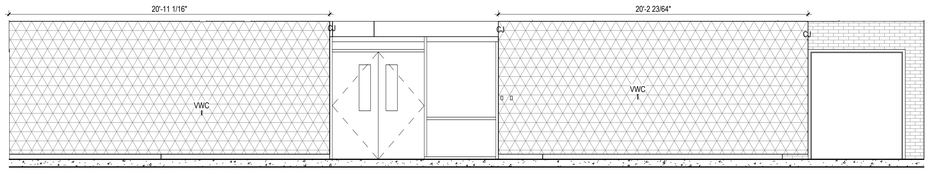
1/20/2026 4:28:12 AM

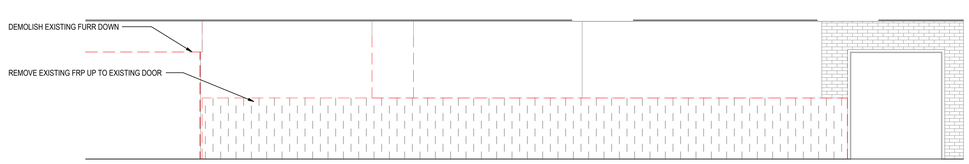
ORIGINAL SHEET - ARCH E1



1 A822 — **RENOVATED GYM - ELEVATION**

1/4" = 1'-0"

RES



2 A822 — **EXISTING GYM - DEMO ELEVATION**

1/4" = 1'-0"

RES

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

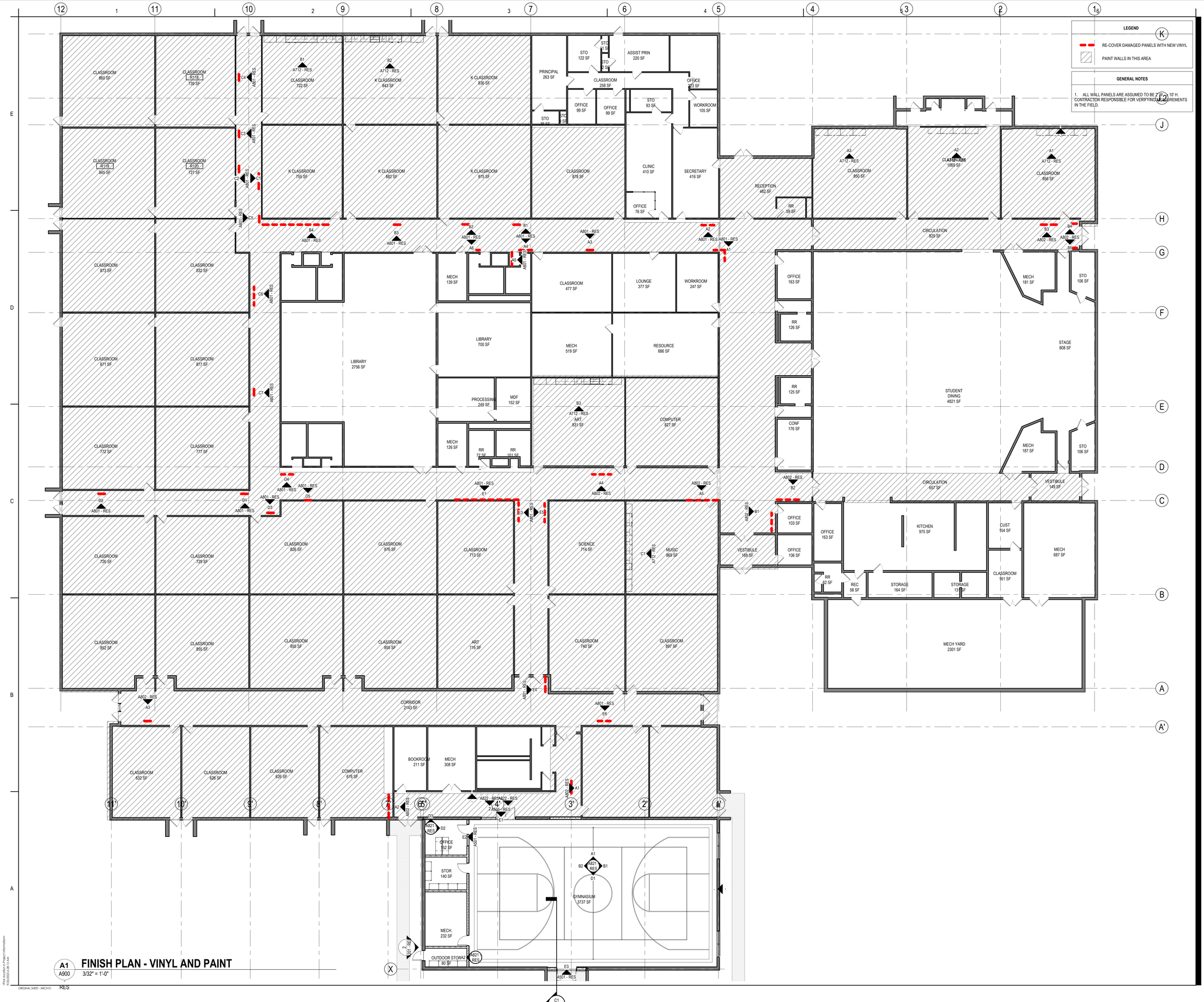
INTERIOR ELEVATIONS

Project No.	Scale
214001246	1/4" = 1'-0"
Revision	Drawing No.

A822 - RES

Plot location in Project Information
1/30/2025 4:28:13 AM

ORIGINAL SHEET - ARCH E1



A1 / A900 — **FINISH PLAN - VINYL AND PAINT**
3/32" = 1'-0"

ORIGINAL SHEET - ARCH E1 RES

#Pick location in Project Information> 1/31/2025 4:28:13 AM

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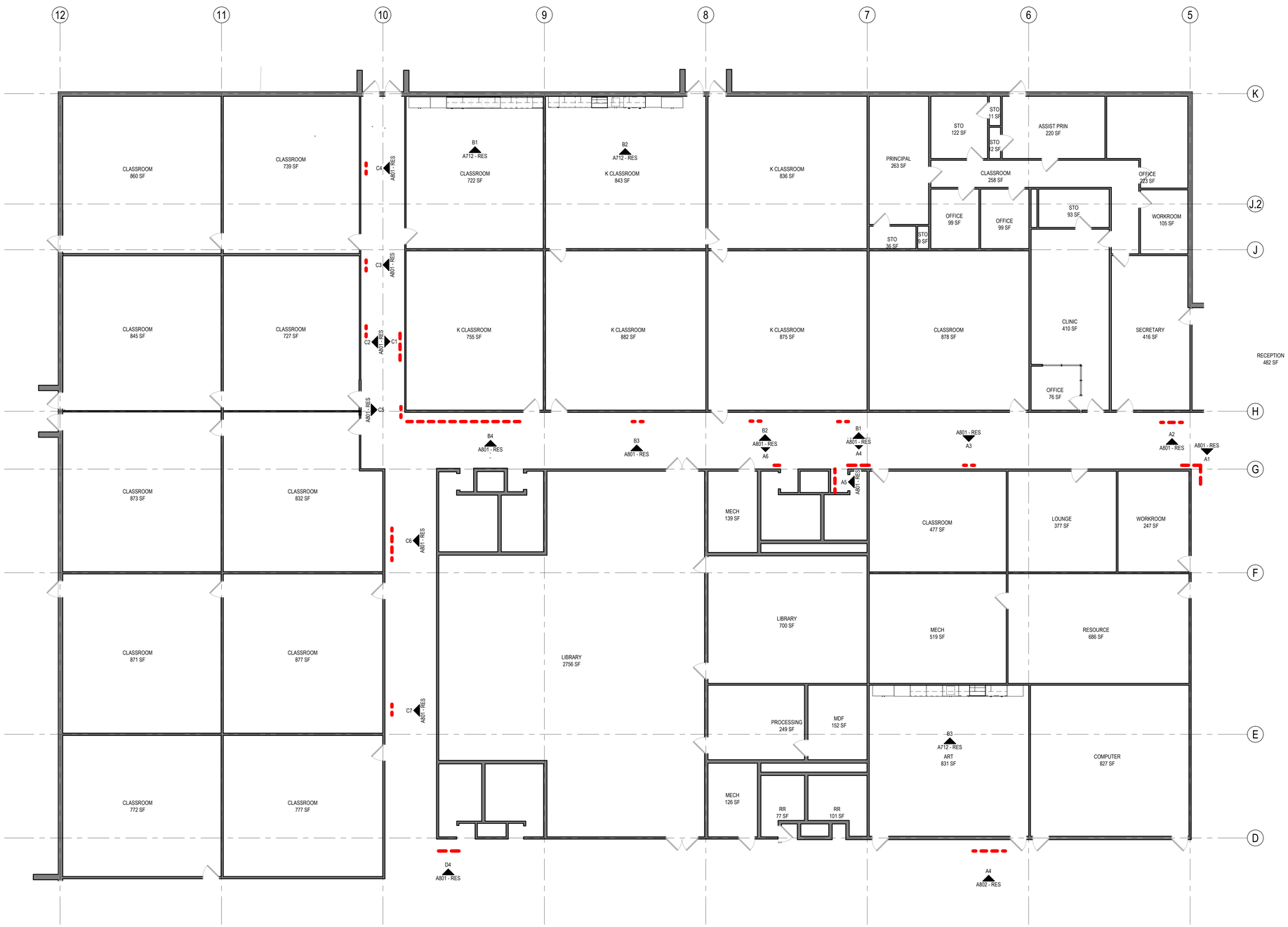
FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
COMPOSITE FINISH PLAN - VINYL AND PAINT

Project No. 214001246
Scale As indicated
Revision
Drawing No.

A900 - RES



A1 FINISH PLAN VINYL AND PAINT - AREA A

A901

1/8" = 1'-0"

RES

LEGEND	
	RE-COVER DAMAGED PANELS WITH NEW VINYL
	PAINT WALLS IN THIS AREA

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.

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Title
FINISH PLAN - VINYL AND PAINT - AREA A

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A901 - RES

ORIGINAL SHEET - ARCH E1

•Pick location in Project Information
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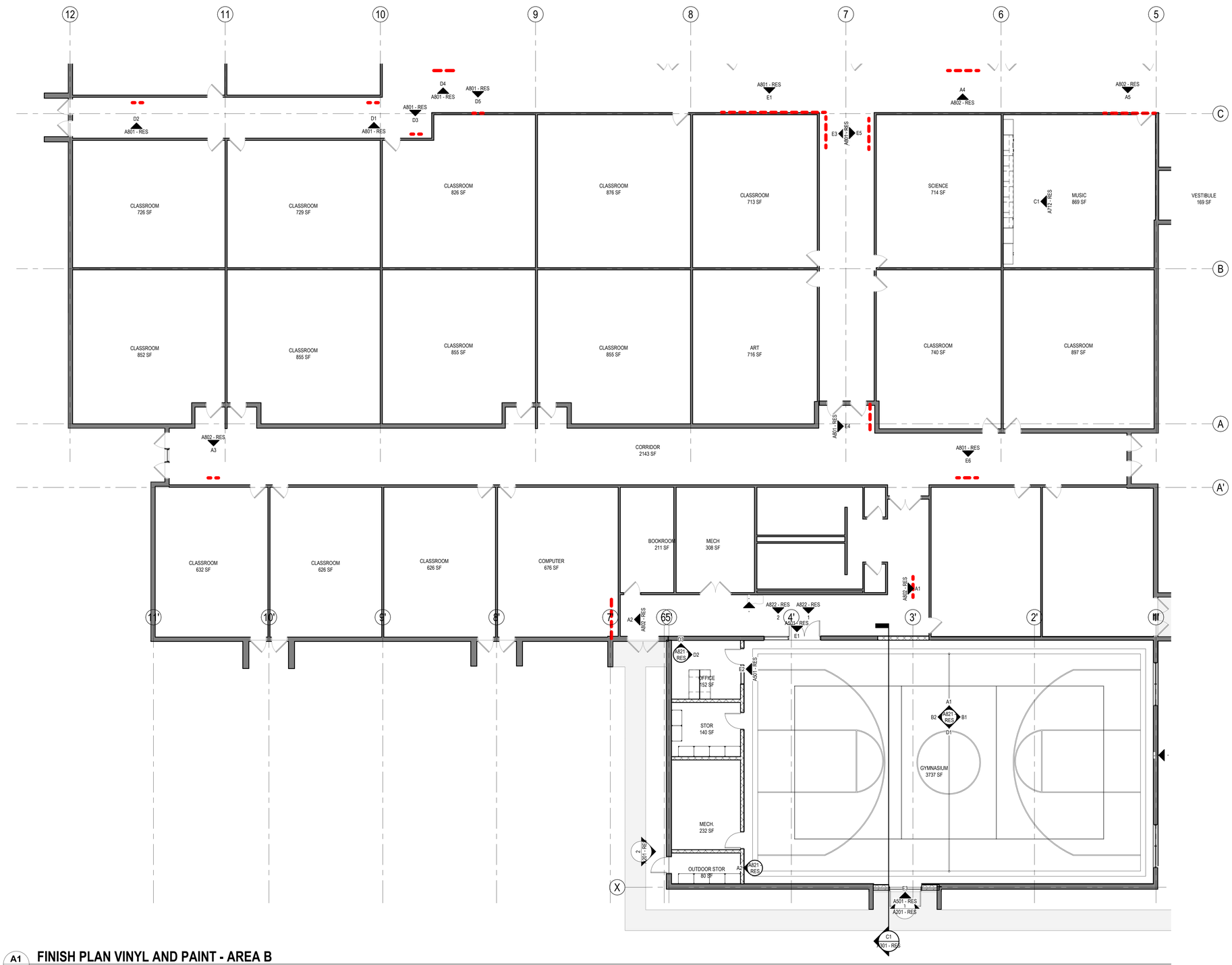

A1 FINISH PLAN VINYL AND PAINT - AREA B

A902 — 1/8" = 1'-0"

RES

LEGEND

- RE-COVER DAMAGED PANELS WITH NEW VINYL
- PAINT WALLS IN THIS AREA

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.

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Title

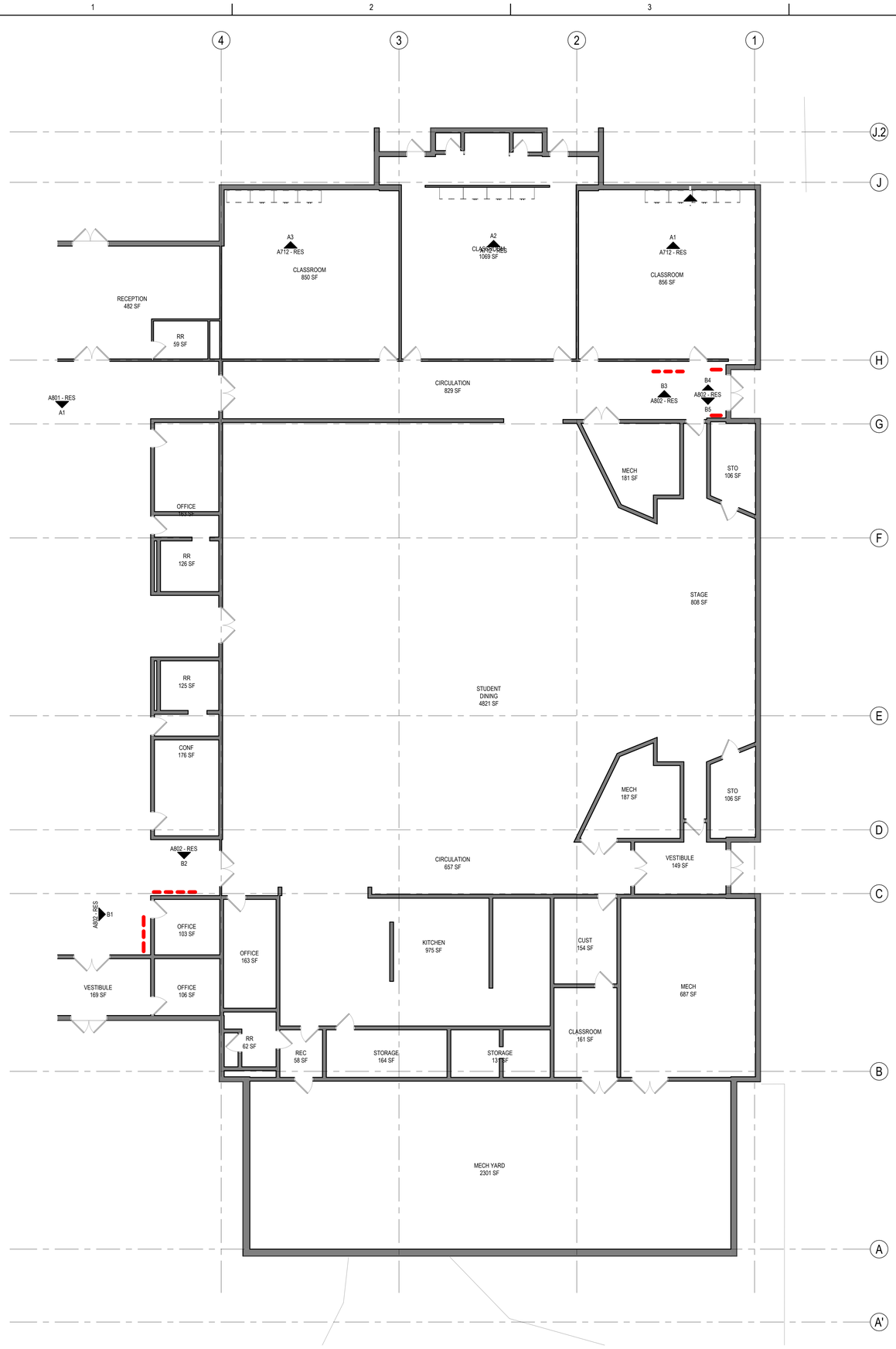
FINISH PLAN - VINYL AND PAINT - AREA B

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A902 - RES

<Pick location in Project Information>
1/20/2025 4:26:17 AM

ORIGINAL SHEET - ARCH E1



A1 / A903 — **FINISH PLAN VINYL AND PAINT - AREA C**

1/8" = 1'-0"

RES

LEGEND	
	RE-COVER DAMAGED PANELS WITH NEW VINYL
	PAINT WALLS IN THIS AREA

GENERAL NOTES

1. ALL WALL PANELS ARE ASSUMED TO BE 2' W x 10' H. CONTRACTOR RESPONSIBLE FOR VERIFYING MEASUREMENTS IN THE FIELD.

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Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

FINISH PLAN - VINYL AND PAINT- AREA C

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A903 - RES

ORIGINAL SHEET - ARCH E1

<Plot Location in Project Information>
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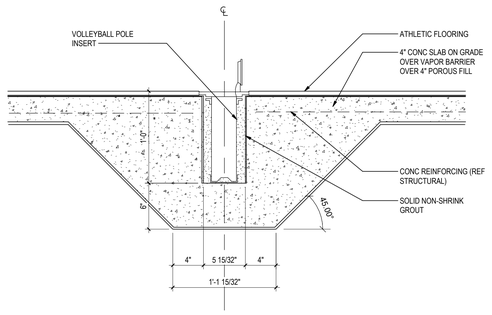
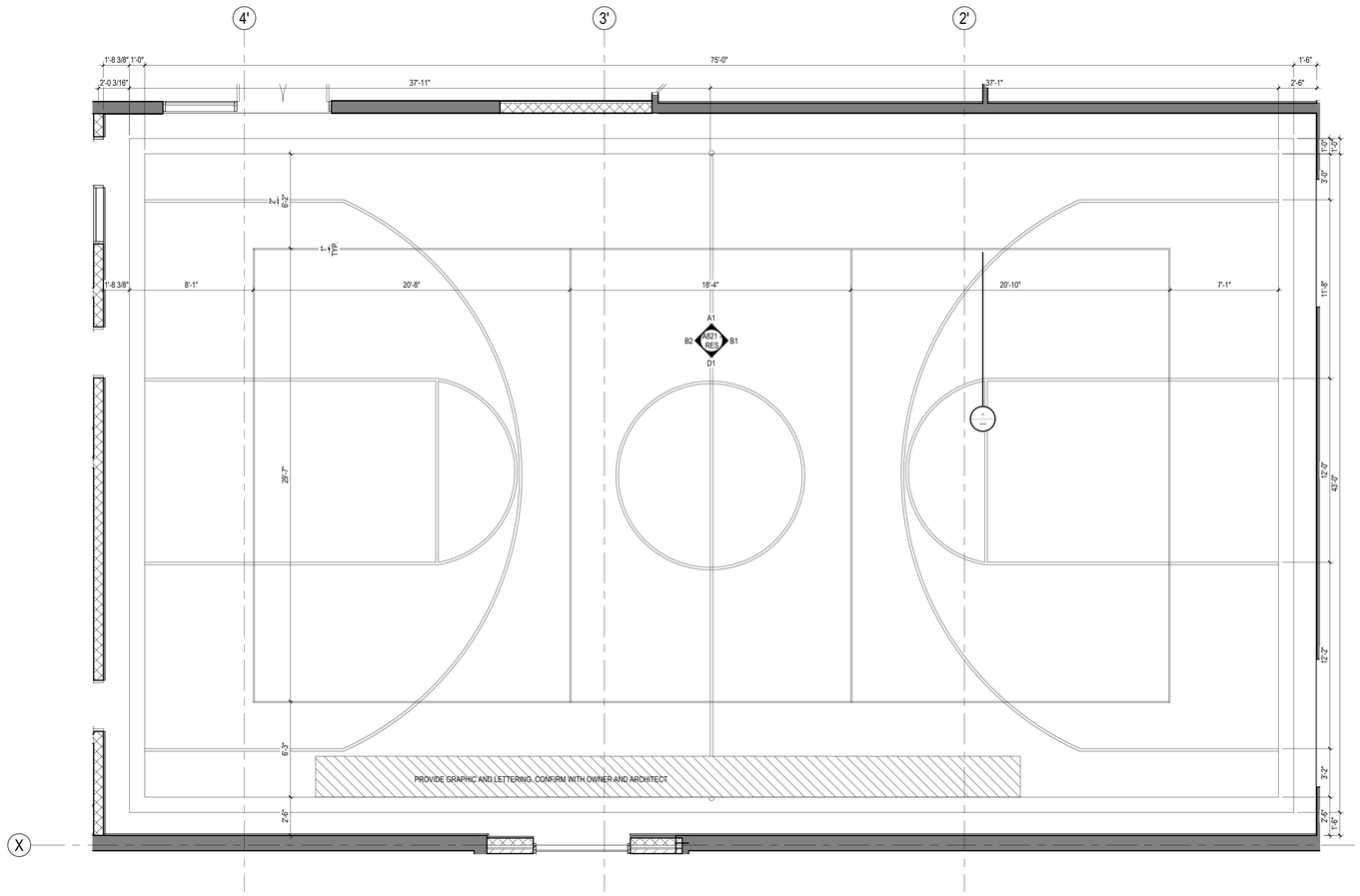


D1 / A905 — **VOLLEYBALL INSERTS**

1 1/2" = 1'-0"

RES



A1 / A905 — **GYM STRIPING PLAN**

1/4" = 1'-0"

RES

GYM FLOOR NOTES:

1. ALL DIMENSION LINES ARE TO THE INSIDE FACE OF THE LINE (U.O.N.).

2. ALL BASKETBALL COURT MARKINGS AND LINES SHALL BE 2" WIDE (U.O.N.).

3. FIELD VERIFY EXACT LOCATIONS OF BACKBOARDS PRIOR TO PERFORMING ANY COURT MARKING/STRIPING, TYP.

4. STRIPING AND FLOOR GRAPHICS PAINT SHALL BE PROVIDED BY FLOORING INSTALLATION VENDOR FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS. COLORS TO BE CONFIRMED WITH OWNER/ARCHITECT BY 6" X 6" MATERIAL SAMPLES PRIOR TO INSTALLATION. COLORS SHALL BE SELECTED FROM VENDOR'S STANDARD AVAILABLE COLORS.

5. COURT STRIPING COLORS SHALL MATCH FLOOR COLOR LEGEND PROVIDED. EXTERIOR STRIPING COLORS SHOULD BE PAINTED TO MATCH FLOOR COLOR LEGEND PROVIDED.

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REGISTERED ARCHITECT — DANIELLE DUNN — 28398 — STATE OF TEXAS

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2023 BOND — FORT BEND INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

FINISH PLAN - GYM FLOOR STRIPING PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

A905 - RES

*Plot location in Project Information
1/20/2025 4:28:18 AM

ORIGINAL SHEET - ARCH E1

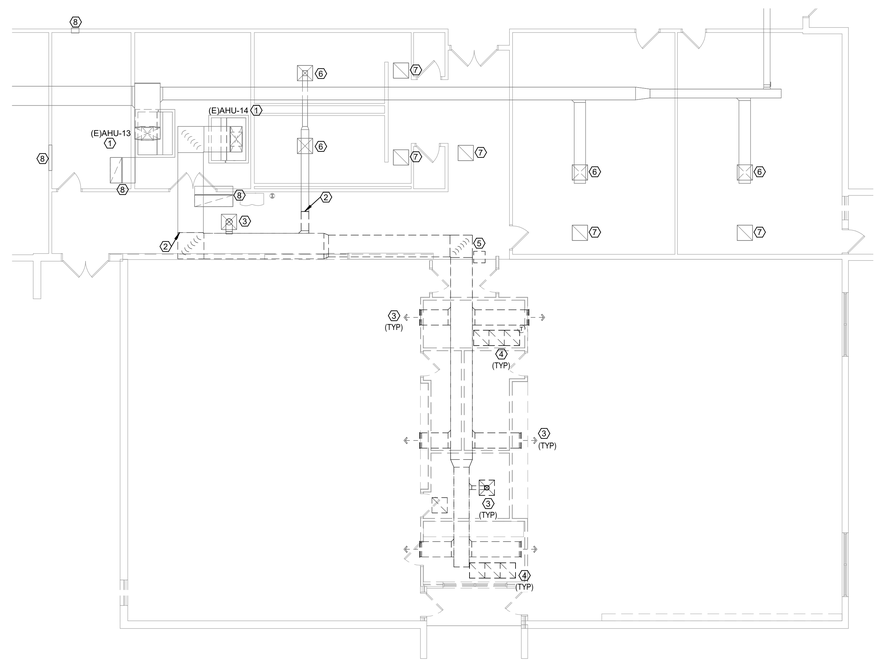
RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭	ITEM TO BE REMOVED

GENERAL NOTES:

1. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CHILLERS, AIR HANDLING UNITS, FANS, CONDENSING UNITS, BMCS CONTROL PANELS, TEMPERATURE SENSORS, AND CONTROL VALVES.
2. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
3. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

DEMOLITION KEYED NOTES:

1. EXISTING AHU TO REMAIN AND BE REUSED.
2. REMOVE EXISTING SUPPLY DUCTWORK BACK TO INDICATED LOCATION.
3. REMOVE EXISTING SUPPLY GRILLE AND ASSOCIATED DUCTWORK AS INDICATED.
4. REMOVE EXISTING RETURN GRILLE.
5. REMOVE EXISTING RETURN AIR TRANSFER.
6. EXISTING SUPPLY AIR DEVICE TO REMAIN.
7. EXISTING RETURN AIR DEVICE TO REMAIN.
8. EXISTING RETURN AIR TRANSFER TO REMAIN.



N

1 **MECHANICAL DEMOLITION PLAN - LEVEL 1 GYM**
Scale: 1/8" = 1'-0"

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Registration: F-4111
Project No: 2023-04376-00

Notes

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File Name: N/A	Dwn.	Dsgn.	Ckkd.	YYYY.MM.DD
	ER	ER	VP	11/27/24

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BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
MECHANICAL DEMOLITION FLOOR PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	M001-RES

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11/27/2025 11:18:41 AM

ORIGINAL SHEET - ARCH E1

RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
⬚	ITEM TO BE REMOVED

GENERAL NOTES:

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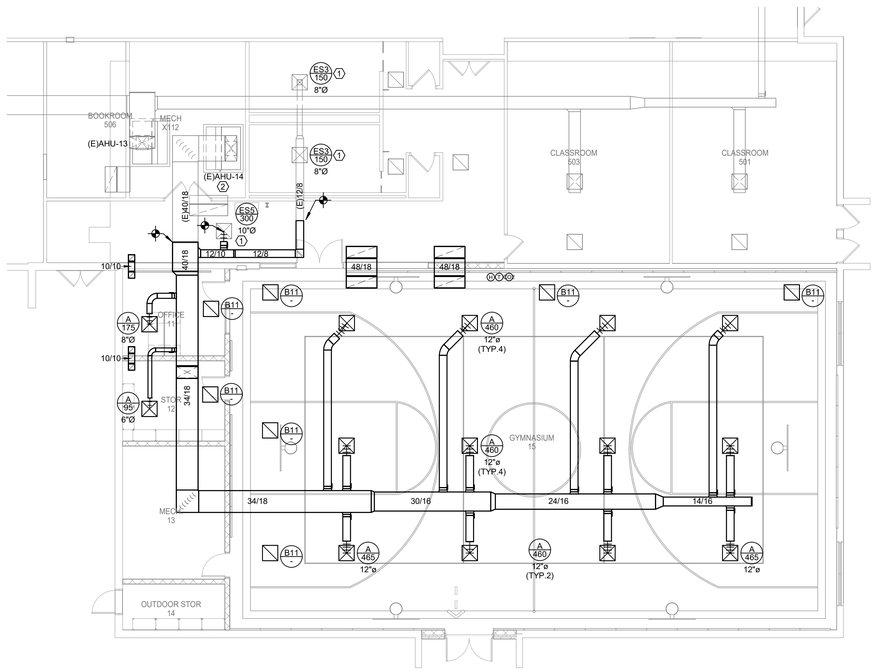
MECHANICAL KEYED NOTES:

1. RE-BALANCE EXISTING SUPPLY AIR DEVICE TO CFM INDICATED.
2. UNIT (E)AHU-14 SHALL PROVIDE A MINIMUM OF 680 CFM OF OUTSIDE AIR TO SPACE.



N

1 **MECHANICAL PLAN - LEVEL 1 - NEW GYM**
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PROFESSIONAL ENGINEER
09-24-2025

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INDEPENDENT SCHOOL DISTRICT

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FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
MECHANICAL FLOOR PLANS

Project No. 214001246
Scale As indicated
Revision
Drawing No.

M201-RES

•Plot location in Project Information•
11/27/2024 4:50:07 PM

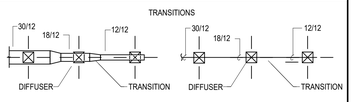
ORIGINAL SHEET - ARCH E1

SYMBOL LEGEND

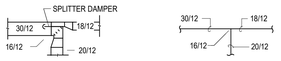
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
/#\	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
S	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FS	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
–CWS&R–	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CWS–	CONDENSER WATER SUPPLY
–CWR–	CONDENSER WATER RETURN
–CHWS&R–	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CHWS–	CHILLED WATER SUPPLY
–CHWR–	CHILLED WATER RETURN
–HWS&R–	HOT WATER FOR HYDRONIC HEATING SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–HWS–	HOT WATER FOR HYDRONIC HEATING SUPPLY
–HWR–	HOT WATER FOR HYDRONIC HEATING RETURN
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILIARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH OPERATOR
	PLUG VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
PR	PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	THERMOMETER WELL
	PETE'S PLUG
	PRESSURE GAUGE
	TEMPERATURE SENSOR IN PIPE
	VENTURI FLOW METER
	FLOW SWITCH
FM	FLOW MEASURING STATION
	EXPANSION JOINT
	FLEXIBLE CONNECTION
G.C.	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK SYMBOLS LEGEND

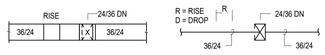
TRANSITIONS



MAIN BRANCH TAKE-OFFS

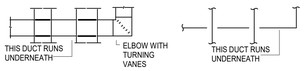


RISERS

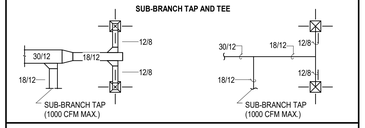


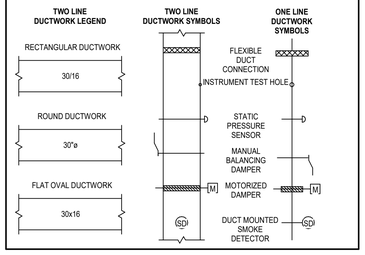
SIDEWALL REGISTERS

DUCT CROSSOVERS



SUB-BRANCH TAP AND TEE





GRILLE

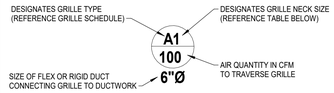
MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" FACE.
B	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" FACE.

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

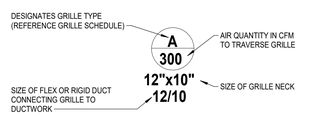
GRILLE SIZING SCHEDULE

STANDARD GRILLE



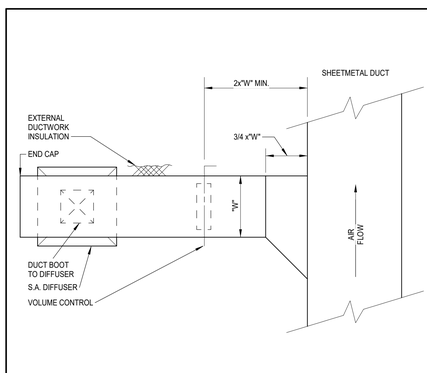
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

REGISTER OR NONSTANDARD GRILLE

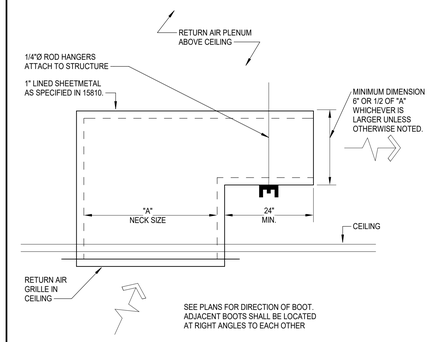


ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

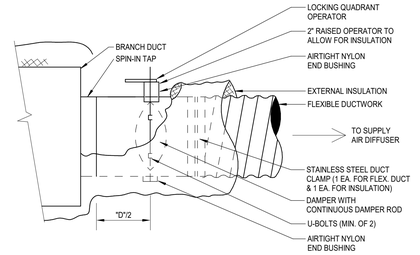
GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"



3 **RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER**
SCALE: NONE



2 **RETURN AIR GRILLE BOOT**
SCALE: NONE



1 **FLEXIBLE DUCT TAP - SPIN-IN**
SCALE: NONE

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
MECHANICAL DETAILS

Project No.	Scale
214001246	12" = 1'-0"

Revision | Drawing No.

M301-RES

•Plot location in Project Information
1/7/2025 4:08:08 PM
ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	EXISTING RECEPTACLES IN THIS SPACE TO BE DEMOLISHED UNLESS OTHERWISE NOTED. REMOVE EXISTING CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX. EXISTING CIRCUITS TO BE REUSED TO FEED NEW DEVICES IN THIS AREA.
2	EXISTING LIGHTING TO BE REPLACED IN THIS SPACE. EXISTING SWITCHES, CONTROL WIRING, AND CEILING MOUNTED OCCUPANCY SENSORS TO REMAIN TO CONTROL NEW LIGHTS.
3	<varies>

ELECTRICAL GENERAL NOTES

1. EXCEPT AS OTHERWISE NOTED, ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

2. DISCONNECT AND REMOVE ALL ELECTRICAL POWER DEVICES SURFACE MOUNTED ON WALLS AND FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, REMOVE CIRCUITS BACK TO SOURCE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF WALL DEMOLITION.

3. EXCEPT AS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL CONDUIT, WIRE AND ASSOCIATED DISCONNECT/CONTROLLER OF HVAC AND PLUMBING EQUIPMENT BEING REMOVED.

LINETYPE LEGEND

————	EXISTING TO REMAIN
— — — —	DISCONNECT AND REMOVE
————	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

N

1 **ELECTRICAL POWER DEMOLITION PLAN - LEVEL 1**
Scale: 1/16" = 1'-0"

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	KJ	JZ		03/20/25

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2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

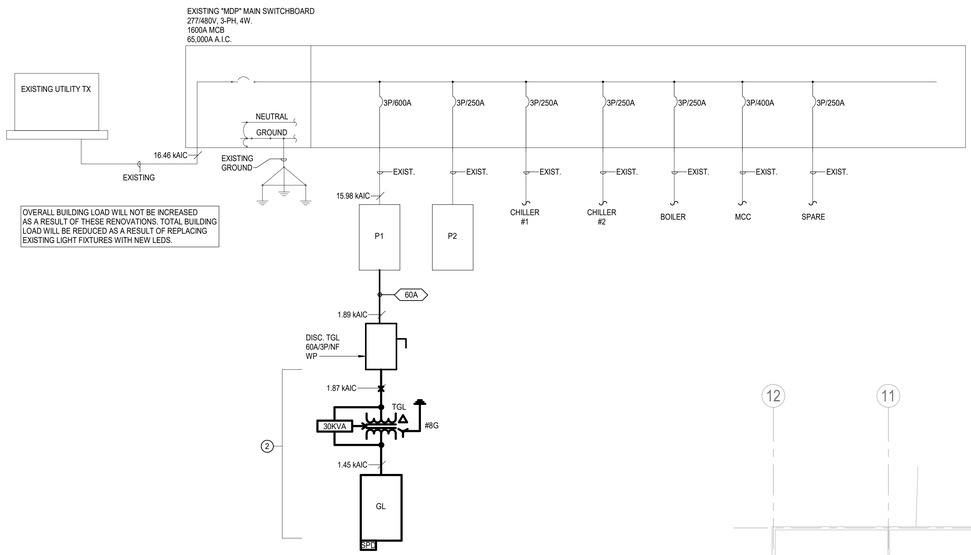
Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL DEMOLITION FLOOR PLANS

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.
	E001-RES

<Pick location in Project Information>
12/22/2025 11:18:55 AM
ORIGINAL SHEET - ARCH E1



2 ONE LINE DIAGRAM

Scale: N.T.S.

ELECTRICAL GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURE AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.

2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE, LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR
NON-ACCESIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.

3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS/TRANSFER DEVICES. REFER TO 26 09 24 LIGHTING CONTROLS.

4. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.

5. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.

7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.

8. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATIONS PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	PROVIDE NEW 30KVA 480:120/208V 3PH NEMA 1 TRANSFORMER WITH 42-SPACE PANELBOARD 120/208V 3PH 4W PANEL, BOLT ON CIRCUIT BREAKERS. ROUTE CONDUIT CONCEALED ABOVE CEILING. SUGGESTED ROUTE SHOWN.
2	PROVIDE NEW 30KVA 480:120/208V 3PH NEMA 1 TRANSFORMER WITH 42-SPACE PANELBOARD 120/208V 3PH 4W PANEL, BOLT ON CIRCUIT BREAKERS.

Branch Panel: P1 — EXISTING PANEL

Location: MECH 55 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 600A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				30.4 / 24.6						2	
	3	PANEL HK	--	225	3	30.4 / 24.6		3	200	-- XFMR TK	4	
	5						30.4 / 24.6				6	
	7				30.0 / 0.0						8	
	9	TEMP BUILDINGS	--	250	3	30.0 / 0.0		3	--	-- SPACE	10	
	11						30.0 / 0.0				12	
	13				22.1 / 0.0			1	20	-- EXIT LTG	14	
	15	T-SHACKS	--	125	3	22.1 / 0.0		1	--	-- SPACE	16	
	17						22.1 / 0.0	1	--	-- SPACE	18	
	19				11.0 / 16.6						20	
	21	NEW XFMR TEM	--	70	3	11.0 / 16.6		3	100	-- NEW XFMR TEM	22	
	23						11.0 / 16.6				24	
	25				0.0 / 0.0			1	--	-- SPACE	26	
	27	SPARE	--	100	3	0.0 / 0.0		1	--	-- SPACE	28	
	29						0.0 / 0.0	1	--	-- SPACE	30	
	31	SPACE	--	--	1	0.0 / 0.0		1	--	-- SPACE	32	
	33	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	34	
	35	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	36	
	37					3.5 / 0.0		1	--	-- SPACE	38	
1	39	TGL	ONE LINE	50	3		1.4 / 0.0	1	--	-- SPACE	40	
	41										42	
							1.2 / 0.0					

Total Load: 138.2 kVA | 136.1 kVA | 135.9 kVA
Total Amps: 499 A | 491 A | 491 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0.0 kVA	0.00%	0.0 kVA	
Lighting	0.0 kVA	0.00%	0.0 kVA	**Total Conn. Load:** 410.2 kVA
Power	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand:** 410.2 kVA
Receptacles	6.1 kVA	100.00%	6.1 kVA	**Total Conn. Current:** 493 A
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand Current:** 493 A
Miscellaneous	0.0 kVA	0.00%	0.0 kVA	

Existing Loads	Existing Connected	Existing Demand...	Existing Demand
Existing Load	404.1 kVA	100.00%	404.1 kVA

Notes:
EXISTING PANEL - Total Calculated Existing load shown in calculations.

1 - NEW CIRCUIT

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
E - EXISTING LOAD

Branch Panel: GL — NEW PANEL

Location: MECH X112 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 18,000
Supply From: TGL | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MCB

Phase in kVA

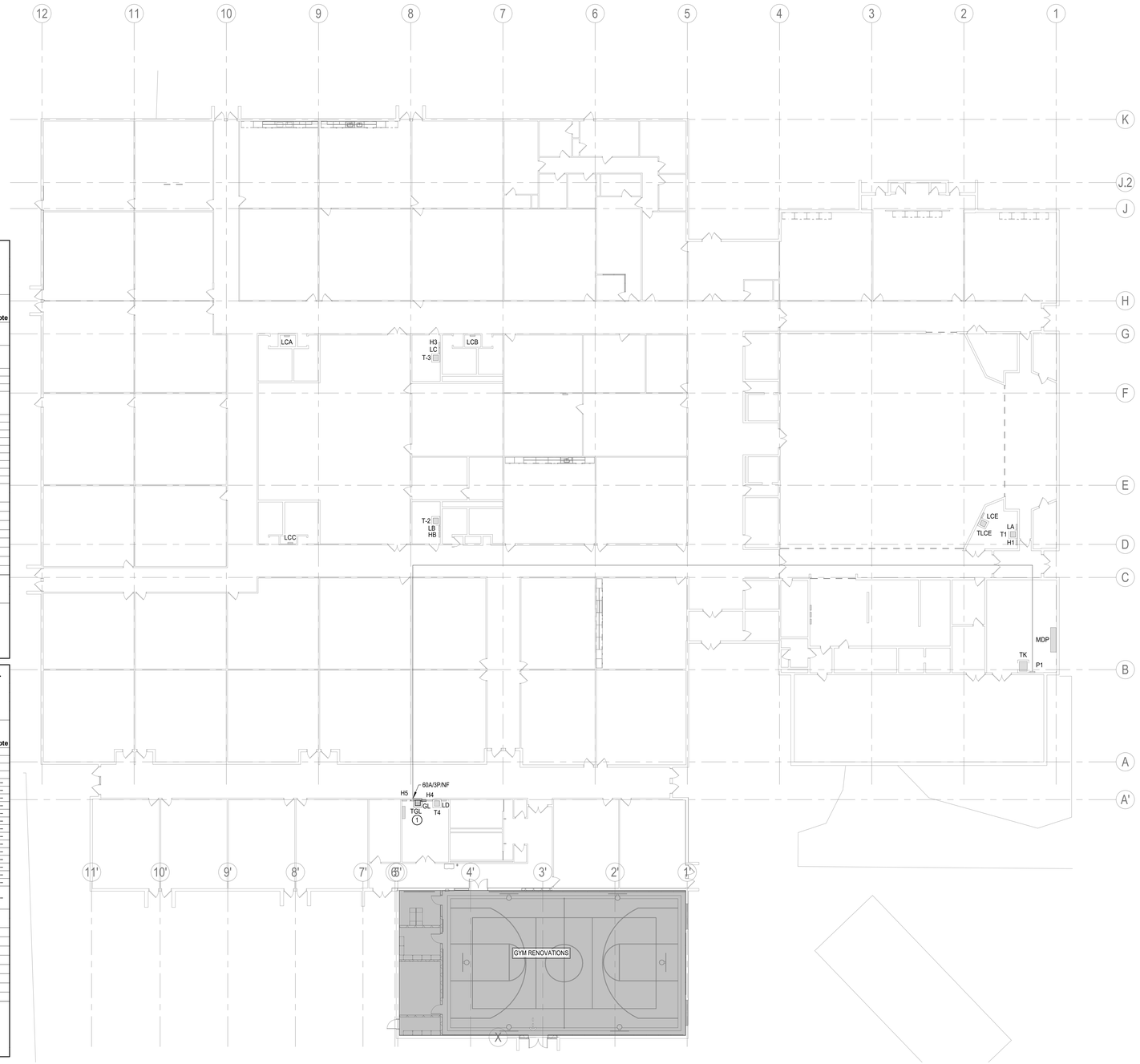
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles Room 12, 11	#12	20	1	1.5 / 0.7		1	20	#12 Receptacles OFFICE 11	2	
	3	Receptacles Room 12, 13, 14	#12	20	1		0.9 / 0.5	1	20	#12 Receptacles MECH. 13	4	
	5	Receptacles MECH. 13	#12	20	1		0.5 / 0.7	1	20	#12 Receptacles GYMNASIUM 15	6	
	7	Receptacles GYMNASIUM 15	#12	20	1	0.7 / 0.5		1	20	#12 Receptacles GYMNASIUM 15	8	
--	9	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	10	--
--	11	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	12	--
--	13	SPACE	--	--	1	0.0 / 0.0		1	--	-- SPACE	14	--
--	15	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	16	--
--	17	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	18	--
--	19	SPACE	--	--	1	0.0 / 0.0		1	--	-- SPACE	20	--
--	21	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	22	--
--	23	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	24	--
--	25	SPACE	--	--	1	0.0 / 0.0		1	--	-- SPACE	26	--
--	27	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	28	--
--	29	SPACE	--	--	1		0.0 / 0.0	1	--	-- SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0		1	--	-- SPACE	32	--
--	33	SPARE	--	20	1		0.0 / 0.0	1	--	-- SPARE	34	--
--	35	SPARE	--	20	1		0.0 / 0.0	1	20	-- SPARE	36	--
--	37	SPARE	--	20	1	0.0 / 0.0					38	
--	39	SPARE	--	20	1		0.0 / 0.0	3	30	-- PROVIDE SPDL	40	--
--	41	SPARE	--	20	1		0.0 / 0.0				42	

Total Load: 3.5 kVA | 1.4 kVA | 1.2 kVA
Total Amps: 29 A | 12 A | 10 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacles	6.1 kVA	100.00%	6.1 kVA	
				Total Conn. Load: 6.1 kVA
				Total Est. Demand: 6.1 kVA
				Total Conn. Current: 17 A
				Total Est. Demand Current: 17 A

Notes:
1 - THROUGH SUBFEED LUGS

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE



1 ELECTRICAL COMPOSITE PLAN

Scale: 1/16" = 1'-0"

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Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KJ	KJ	JJ	11/27/24

Permit/Seal

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2022 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL COMPOSITE PLAN

Project No.	Scale
214001246	As indicated
Revision	Drawing No.
	E100-RES

<Pick location in Project Information>
11/27/2025 11:18:31 AM

ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	PROVIDE POWER TO NEW LIGHTING IN THIS SPACE FROM EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION. EXTEND EXISTING CONDUCTORS/CONDUIT WITH MATCHING SIZE AS NECESSARY.
2	EXISTING LIGHTING CONTROLS ARE BI-LEVEL SWITCHING AT EACH FIXTURE FOR IN-BOARD AND OUTBOARD LAMPS. NEW LIGHTS SHALL BE WIRED SO THAT ONLY THE CONTROL LINE WITH THE CORRESPONDING TAG 'a' or 'b' IS UTILIZED AT EACH FIXTURE LOCATION. ADDITIONAL UNUSED CONTROL LINE AT EACH FIXTURE TO BE CAPPED AND MARKED CLEARLY ABOVE CEILING. REFER TO 'TYPICAL CLASSROOM SWITCHING DETAIL' FOR STANDARD CLASSROOM LAYOUTS.

ELECTRICAL GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURE AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.

2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE, LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR
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LINETYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

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FIRE ALARM SYSTEM SHALL COMPLY WITH ALL CITY OF HOUSTON IBC AMENDMENTS. SMOKE DETECTORS SHALL BE PROVIDED IN ALL APPLICABLE ROOMS LISTED IN SECTION 907.2.3.1 OF THE 2021 IBC CITY OF HOUSTON AMENDMENTS.

N

1 **ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA A**
Scale: 1/8" = 1'-0"

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Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

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100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KJ	KJ	JZ	03/20/25

Permit/Seal

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA A

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.

E201-RES

ORIGINAL SHEET - ARCH E1
<Pcs location in Project Information>
12/22/2025 11:18:54 AM

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	PROVIDE POWER TO NEW LIGHTING IN THIS SPACE FROM EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION. EXTEND EXISTING CONDUCTORS/CONDUIT WITH MATCHING SIZE AS NECESSARY.
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———	EXISTING TO REMAIN
– – – –	DISCONNECT AND REMOVE
———	NEW WORK

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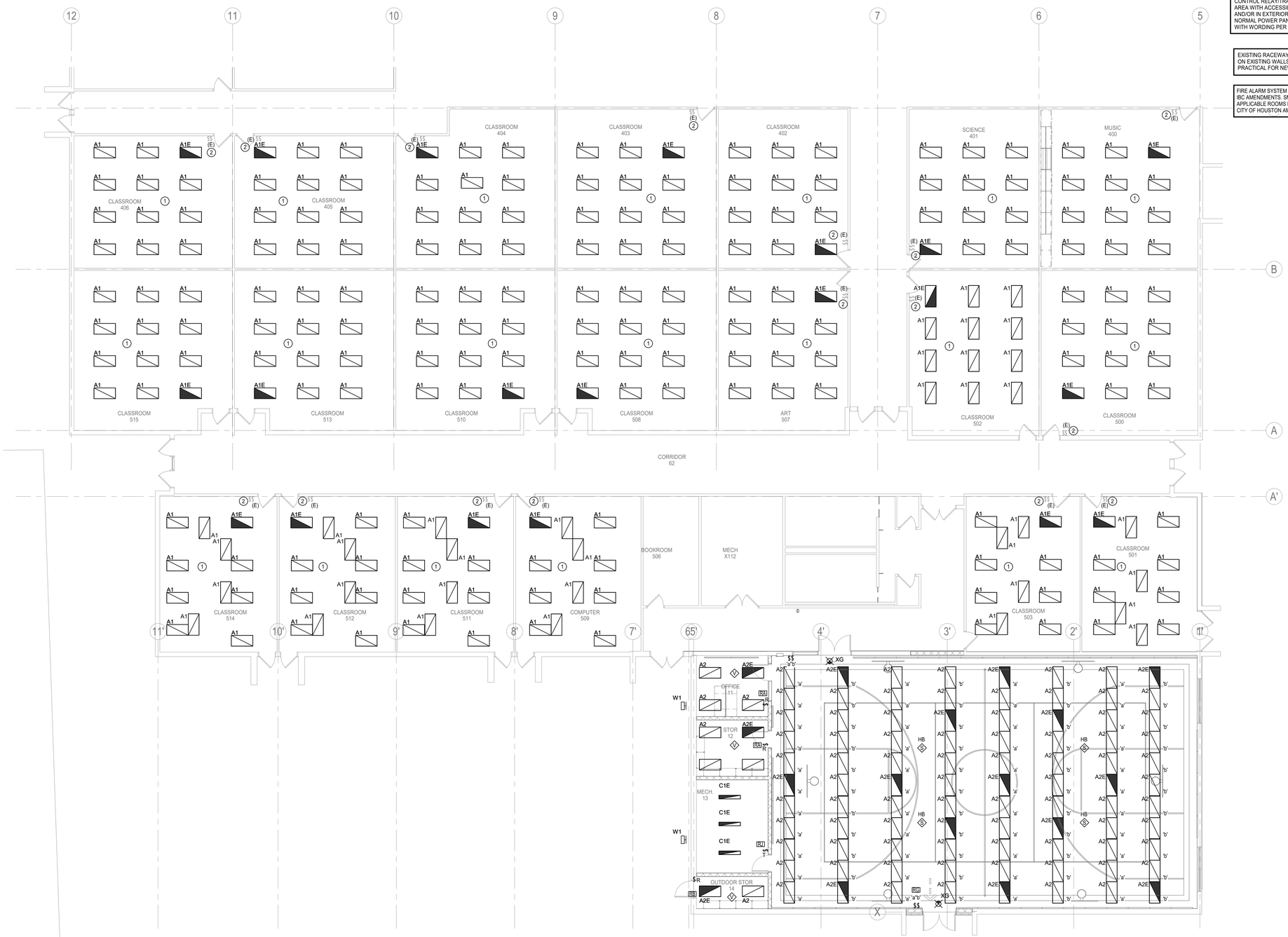

N

1 **ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA B**
Scale: 1/8" = 1'-0"

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Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	KJ	KJ	JJ 03/20/25
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project
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FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA B

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.

E202-RES

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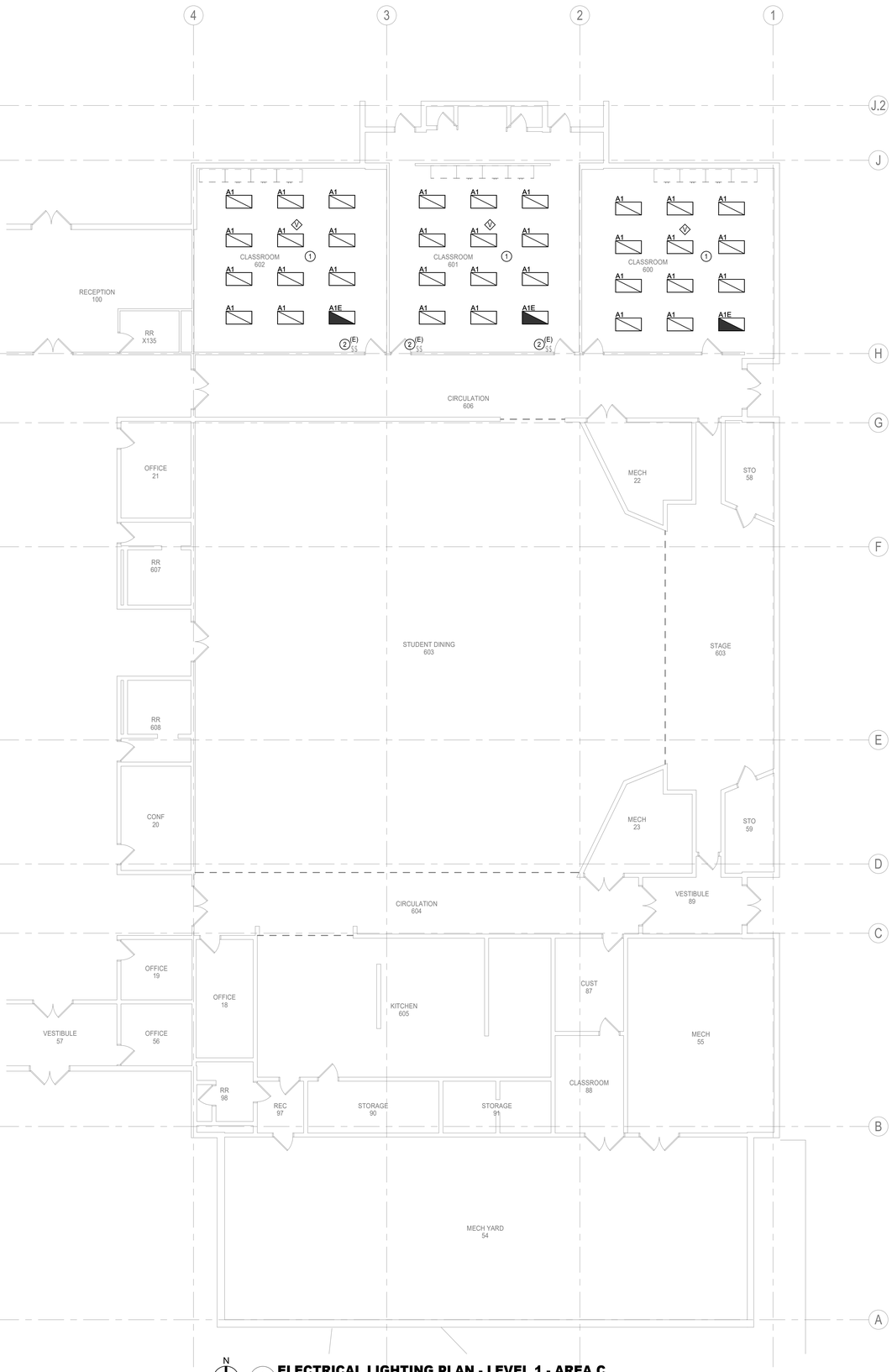

N

1 **ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES AND/OR EXIT SIGNS TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURE AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.

2. LOCATION OF NEW LIGHT FIXTURES SHALL REUSE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET, "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE ½-INCH FLEXIBLE STEEL CONDUIT, LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.

3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS/TRANSFER DEVICES. REFER TO 26 09 24 LIGHTING CONTROLS.

4. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.

5. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.

7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.

8. REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMUNICATIONS PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 26.

LINETYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

FIRE ALARM SYSTEM SHALL COMPLY WITH ALL CITY OF HOUSTON IBC AMENDMENTS. SMOKE DETECTORS SHALL BE PROVIDED IN ALL APPLICABLE ROOMS LISTED IN SECTION 907.2.3.1 OF THE 2021 IBC CITY OF HOUSTON AMENDMENTS.

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	PROVIDE POWER TO NEW LIGHTING IN THIS SPACE FROM EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION. EXTEND EXISTING CONDUCTORS/CONDUIT WITH MATCHING SIZE AS NECESSARY.
2	EXISTING LIGHTING CONTROLS ARE BI-LEVEL SWITCHING AT EACH FIXTURE FOR IN-BOARD AND OUTBOARD LAMPS. NEW LIGHTS SHALL BE WIRED SO THAT ONLY THE CONTROL LINE WITH THE CORRESPONDING TAG 'a' or 'b' IS UTILIZED AT EACH FIXTURE LOCATION. ADDITIONAL UNUSED CONTROL LINE AT EACH FIXTURE TO BE CAPPED AND MARKED CLEARLY ABOVE CEILING. REFER TO 'TYPICAL CLASSROOM SWITCHING DETAIL' FOR STANDARD CLASSROOM LAYOUTS.

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
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File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	KJ	KJ	JZ	03/20/25

Permit/Seal

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STATE OF TEXAS
09-24-2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL LIGHTING PLAN - LEVEL 1 - AREA C

Project No.	Scale
214001246	1/8" = 1'-0"

Revision | Drawing No.

E203-RES

<Plot location in Project Information>
7/22/2025 11:18:58 AM

ORIGINAL SHEET - ARCH E1

ELECTRICAL KEYED NOTES

KEYED NOTE	Description
1	MOUNT AT +54" AFF. FOR BMCS CONNECTION.
2	MOUNT AT +54" AFF. FOR F/A CONNECTION.
3	PROVIDE KEYED SWITCH BANK TO CONTROL THE BASKETBALL GOALS AND BLEACHERS. CONTRACTOR SHALL GANG SWITCHES AND MOUNT AT THE SAME ELEVATION AS LIGHT SWITCH BANK. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN FOR EXACT MOUNTING HEIGHT.
4	PROVIDE NEW DEVICE AND NEW CIRCUIT IN EXISTING BACKBOX LOCATION AS SHOWN. EXTEND CONDUIT MATCHING EXISTING SIZE TO NEW PANEL LOCATION.

ELECTRICAL GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3. CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4. ALL RECEPTACLES LOCATED WITHIN OF SINK SHALL BE CFC' TYPE.
5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6. ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7. CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES. FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ALL EXTERIOR OUTLETS SHALL BE wp GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE.

LINETYPE LEGEND

———	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
———	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION. AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY/TRANSFER SWITCH IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING; IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.

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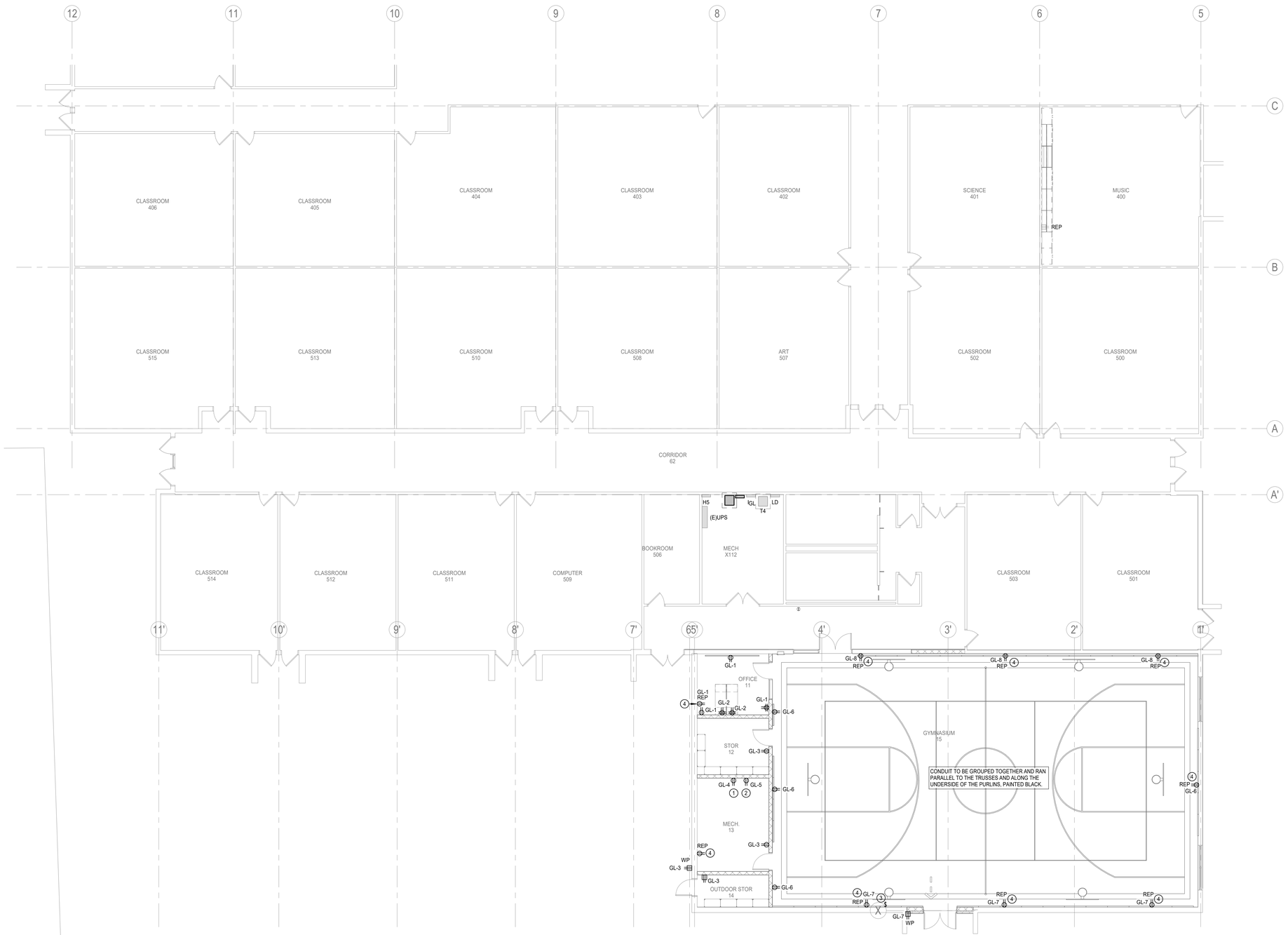
FIRE ALARM SYSTEM SHALL COMPLY WITH ALL CITY OF HOUSTON IBC AMENDMENTS. SMOKE DETECTORS SHALL BE PROVIDED IN ALL APPLICABLE ROOMS LISTED IN SECTION 907.2.3.1 OF THE 2021 IBC CITY OF HOUSTON AMENDMENTS.



N

1 **ELECTRICAL POWER PLAN - LEVEL 1 - AREA B**
Scale: 1/8" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD

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File Name: N/A	KJ Dwn.	KJ Dsgn.	JZ Chkd. 03/20/25 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL POWER PLAN - LEVEL 1 - AREA B

Project No.	Scale
214001246	1/8" = 1'-0"
Revision	Drawing No.

E302-RES

<Pick location in Project Information>
7/22/2025 11:18:39 AM

ORIGINAL SHEET - ARCH E1

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	METALUX	24CGT5540C	T-GRID	5000L LED	4000 K	80	277 V	45 W	ECONOMY 2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A1E	METALUX	24CGT5540C - EL14W	T-GRID	5000L LED	4000 K	80	277 V	45 W	ECONOMY 2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
A2	METALUX	24CGT4540C	T-GRID	4000L LED	4000 K	80	277 V	50 W	ECONOMY 2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
A2E	METALUX	24CGT4540C - EL14W	T-GRID	4000L LED	4000 K	80	277 V	50 W	ECONOMY 2X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
B1	METALUX	14CGTX-4S-L840	T-GRID	4000L LED	4000K	80	277 V	50 W	ECONOMY 1X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED.
B1E	METALUX	14CGTX-4S-L840 - EL14W	T-GRID	4000L LED	4000K	80	277 V	50 W	ECONOMY 1X4 FLAT LENSED TROFFER, ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
C1E	METALUX	4SNLED-LDS-LN-41SL - EL14W	SUSPENDED/SURFACE	4800L LED	4000 K	80	277 V	20 W	1x4 SUSPENDED/SURFACE STRIP. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
D1	HALO	LFR-6RD-M40L-40K-MD-DM01	RECESSED	3000L LED	4000 K	80	277 V	30 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED.
D1E	HALO	LFR-6RD-M40L-40K-MD-DM01-EM	RECESSED	3000L LED	4000 K	80	277 V	30 W	LED 6" RECESSED CAN LIGHT.0-10V DIMMING DRIVER. DLC CERTIFIED. PROVIDE INTEGRAL EMERGENCY BATTERY BACKUP.
G1	METALUX	SSLED-LDS-24-M-UNV-L840-EL20WREM	SUSPENDED/SURFACE	24000L LED	4000 K	80	277 V	200 W	ROUND HIGH BAY TROFFER .
W1	GARDCO	GWM-A09-840-T3M-UNV	WALL	6000L LED	4000 K	80	277 V	30 W	LED ARCHITECTURAL WALLPAK, ALUMINUM HOUSING. COORDINATE FINISH WITH EXISTING EXTERIOR FIXTURES. DLC CERTIFIED.
X1	SURE-LITES	LPX7-W-10	UNIVERSAL	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.
XG	SURE-LITES	LPX7-W-WG10	UNIVERSAL	LED	4000 K	0	277 V	5 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING, WIRE GUARD, AND EMERGENCY BATTERY BACK-UP.

APPROVED LIGHTING MANUFACTURERS:
PHILLIPS, COOPER (METALUX), LITHONIA, OR LUTRON

NOTES:
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHT FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHT SCHEDULE AND THE SPECIFICATIONS, THE BETTER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
THE ABOVE LIGHTING MANUFACTURERS SUBSTITUTION LIST DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. IT SHALL BE THE RESPONSIBILITY OF THECONTRACTOR TO CAREFULLY SELECT SUBSTITUTIONS FOR THE SPECIFIED LIGHT FIXTURES FROM THE APPROVED LIGHTING MANUFACTURERS LISTED ABOVE. WHERE SPECIFIC OPTIONS / ACCESSORIES ARE SPECIFIED, THEY SHALL BE PROVIDED AS SPECIFIED WITH THE SUBSTITUTION.
DUE TO THE WIDE RANGE OF FIXTURE QUALITIES OFFERED BY EACH MANUFACTURER, THE APPROVED LIGHTING MANUFACTURERS SUBSTITUTION LIST IS NOT INTENDED TO INDICATE THAT ANY OR ALL MANUFACTURERS LISTED WILL HAVE SUITABLE SUBSTITUTIONS FOR THE LIGHT FIXTURES OR POLES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	Description
RA	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	ROOM CONTROLLER, 0-10V DIMMING.
RB	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	ROOM CONTROLLER, NO DIMMING.
RD	OCCUPANCY - AUTO ON 100% / AUTO OFF 20 MINUTES TIMEOUT	1	ROOM CONTROLLER, NO DIMMING.
RG	OCCUPANCY - AUTO ON 50% / AUTO OFF 20 MINUTES TIMEOUT	1	GYM ROOM CONTROLLER, 0-10V DIMMING. BMCS ON/OFF INTERFACE FOR OCCUPIED / UNOCCUPIED BUILDING OPERATION. LOCATE 0-10 V DIMMING SWITCHES AT EACH ENTRY FOR DUAL-LEVEL CONTROL WITH ALTERNATE FIXTURES.
RJ	NONE	1	MECHANICALLY WOUND TIMER SWITCH. WATTSTOPPER TS-400. WHERE MULTIPLE SWITCHES ARE USED, THESE SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

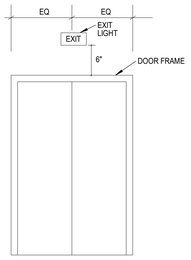
NOTES:
- PER 2021 IECC C405, AREAS / ROOMS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY ARE EXEMPT FROM AUTOMATIC CONTROLS.
- REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL INSTALLATION.
- PROVIDE PHOTOCELL WITHIN DAYLIGHT ZONE ONLY WHERE SHOWN ON FLOORPLANS.
- CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.
-ACCEPTABLE LIGHTING CONTROLS MANUFACTURERS: INTELLIGENT LIGHTING CONTROLS (ILC), COOPER, ACUITY, LUTRON

SYMBOL SCHEDULE

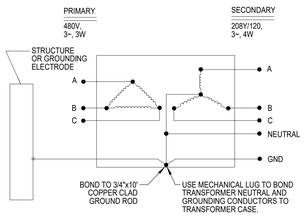
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$2	LINE VOLTAGE 2-POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE KEYED SWITCH
$3K	LINE VOLTAGE KEYED 3-WAY SWITCH
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. AUTO ON / AUTO OFF.
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$MC	MOMENTARY CONTACT SWITCH
[B]	PUSH BUTTON
$TH	6-HOUR TIMER SWITCH WITH HOLD
$T	6-HOUR TIMER SWITCH WITH NO HOLD
	20 AMP GENERATOR TRANSFER DEVICE
LOW VOLTAGE LIGHTING CONTROLS	
$R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
$B	BMCS TIMER LOCAL OVERRIDE SWITCH
P	CEILING MOUNTED PHOTO SENSOR
V	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
OS	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
CR	LIGHTING CONTROLLER WITH GTD. ZONES AS REQUIRED.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR CONCEALED SERVICE DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR CONCEALED SERVICE DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
ANNC	FIRE ALARM REMOTE ANNUCIATOR
[T]	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
J	DISCONNECT SWITCH AS REQUIRED
FJ	FUSED DISCONNECT SWITCH AS REQUIRED
MJ	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
M	MOTOR STARTER
$M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

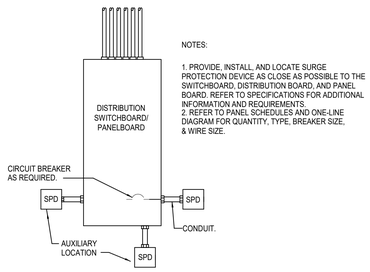
GENERAL NOTES:
-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.



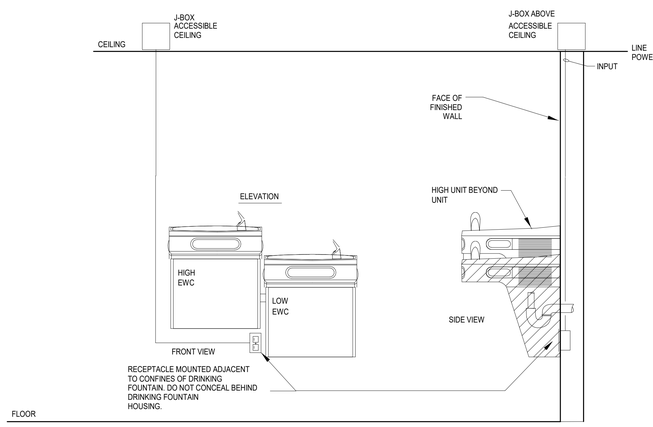
1 TYPICAL EXIT SIGN LOCATION
Scale: N.T.S.



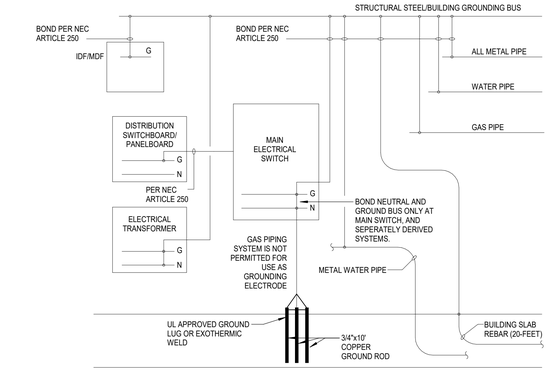
2 GROUNDING FOR TRANSFORMERS
Scale: N.T.S.



3 SURGE PROTECTION DEVICE DETAIL
Scale: N.T.S.

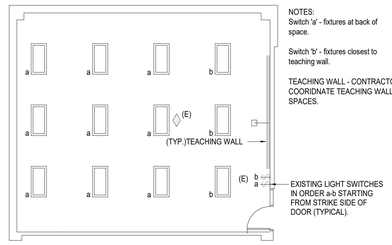


4 ELECTRIC DRINKING FOUNTAIN POWER REQUIREMENTS
Scale: N.T.S.

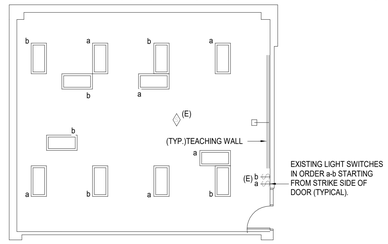


5 SYSTEM GROUNDING DETAIL
Scale: N.T.S.

STANDARD CLASSROOM



STANDARD CLASSROOM/COMPUTER - ATYPICAL LAYOUT



6 TYPICAL CLASSROOM SWITCHING SCHEME
Scale: 12" = 1'-0"

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Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD
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File Name: N/A	KJ Dwn.	KJ Dsgn.	JZ Chkd. 03/20/25 YYYY.MM.DD

Permit/Seal

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FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

E501-RES

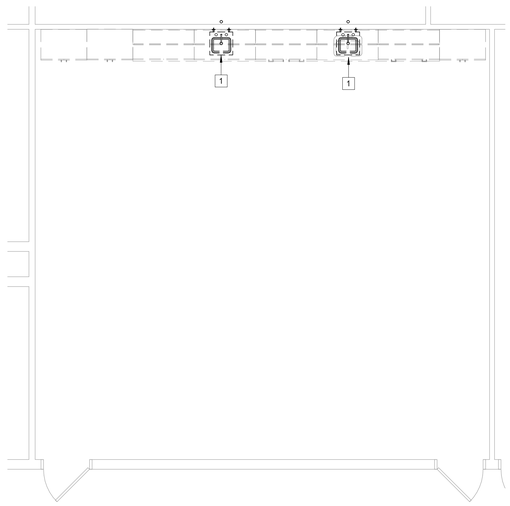
<Pw1 location in Project Information>
6/20/2025 11:18:46 AM
ORIGINAL SHEET - ARCH E1

PLUMBING GENERAL NOTES

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.
4. ANY OTHER ITEMS NOT REFERENCED WHICH ARE LOCATED IN THE DEMOLISHED SPACE (VENT, WASTE, WATER HEATER, PLUMBING FIXTURE, ETC.) THAT ARE IDENTIFIED OR DISCOVERED DURING DEMOLITION WHICH WILL NOT BE USED FOR THIS PROJECT, SHALL BE DEMOLISHED BACK TO THE MAIN SOURCE OR RISER, AND DEVICES SHALL BE RETAINED TO THE OWNER STORAGE AS DIRECTED BY THE ARCHITECT/OWNER.
5. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL PLUMBING FIXTURES/ EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT NOT LIMITED TO PUMPS, HEATERS, AND STAINLESS STEEL SINKS. CONTRACTOR TO NOTIFY DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

PLUMBING KEYED NOTES

1 EXISTING SINK TO BE REMOVED AND REPLACED WITH A NEW ONE. MAINTAIN EXISTING UTILITIES/ROUGH-IN TO SERVE NEW FIXTURE(S). FIELD VERIFY THE EXACT LOCATION, SIZE, AND CONDITION OF EXISTING PIPING. REPAIRE EXISTING PIPING IF NEEDED AND PREPARE FOR NEW CONNECTION.



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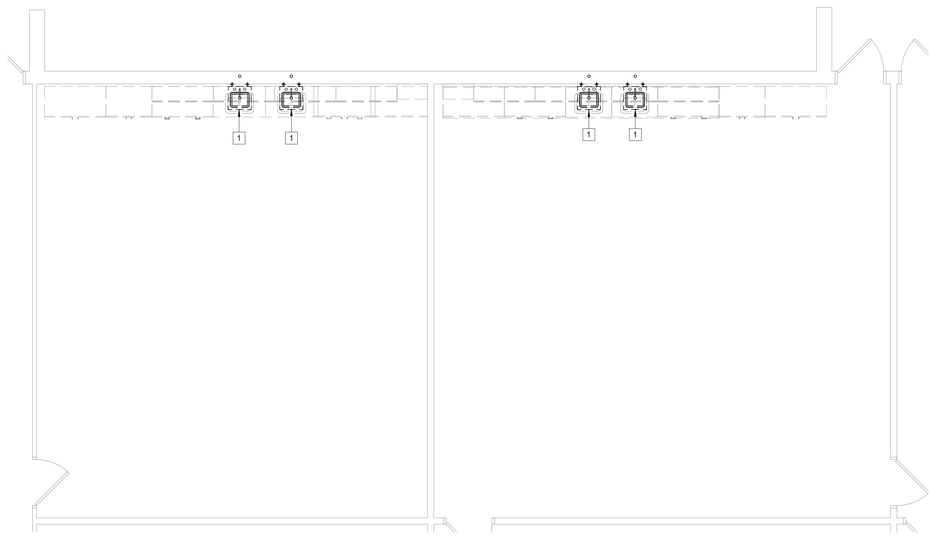
2 **PLUMBING ENLARGED DEMOLITION PLAN - LEVEL 1 - ART 306**
Scale: 1/4" = 1'-0"



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1 **PLUMBING ENLARGED DEMOLITION PLAN - LEVEL 1 - K CLASSROOM**
Scale: 1/4" = 1'-0"

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Notes

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	AA	AA	EH	11/27/24

Permit/Seal

09-24-2025

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Client/Project
FORT BEND ISD

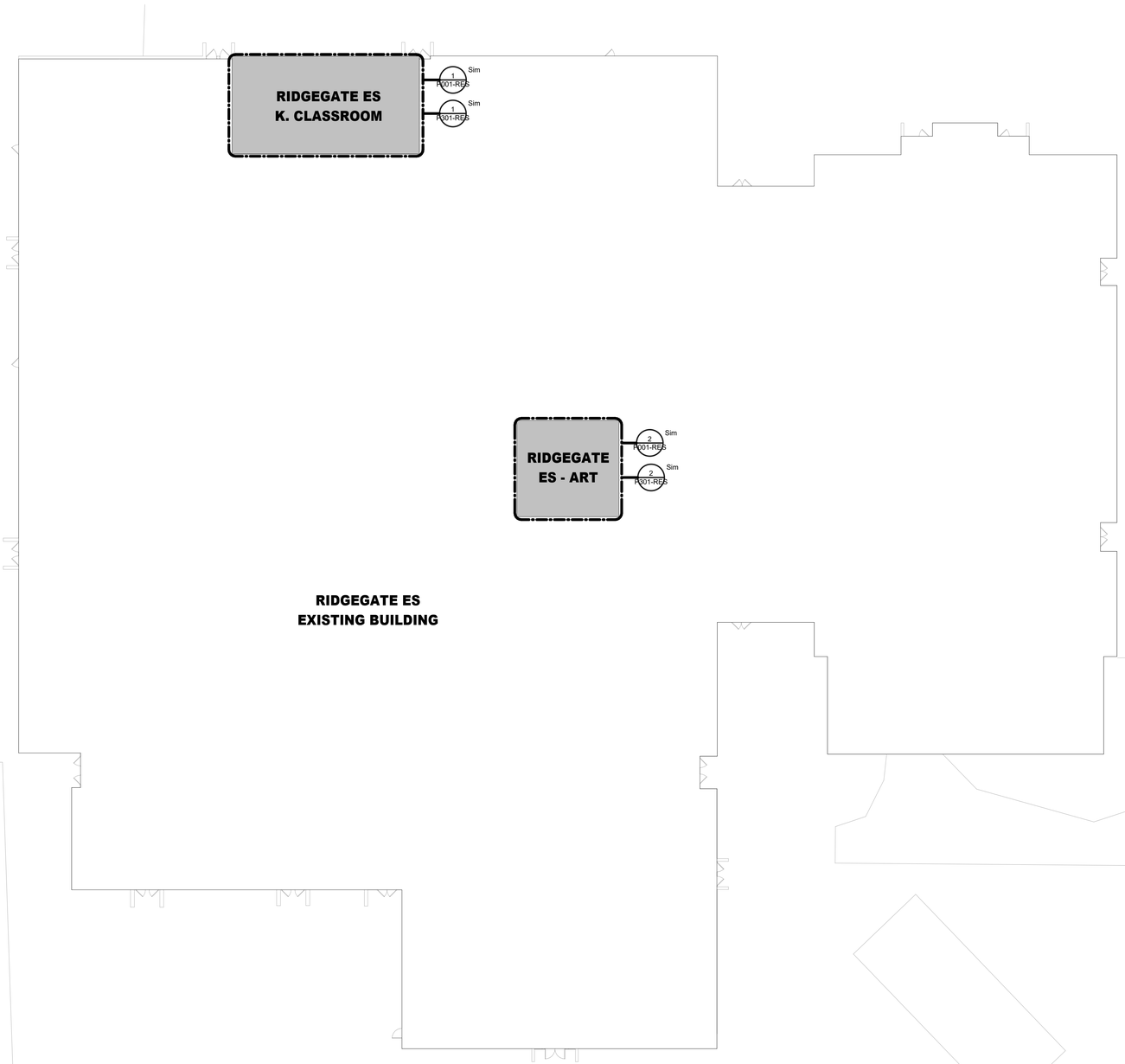
FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
PLUMBING ENLARGED DEMOLITION FLOOR PLANS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

P001-RES

Pick location in Project Information
1/27/2025 11:18:44 AM
ORIGINAL SHEET - ARCH E1



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1 **PLUMBING COMPOSITE PLAN**
Scale: 1/16" = 1'-0"

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	AA	AA	EH	11/27/24

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6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
PLUMBING COMPOSITE PLAN

Project No.	Scale
214001246	1/16" = 1'-0"
Revision	Drawing No.
	P100-RES

<Pick location in Project Information>
1/22/2025 11:18:43 AM

ORIGINAL SHEET - ARCH E1

FIRE SPRINKLER SYSTEM NOTES

A. EXISTING FIRE SPRINKLER SYSTEM TO BE MAINTAINED IN FULL OPERATING ORDER FOR ENTIRE BUILDING AT ALL TIMES. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND HYDRAULIC CALCULATIONS FOR CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL REQUIRMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

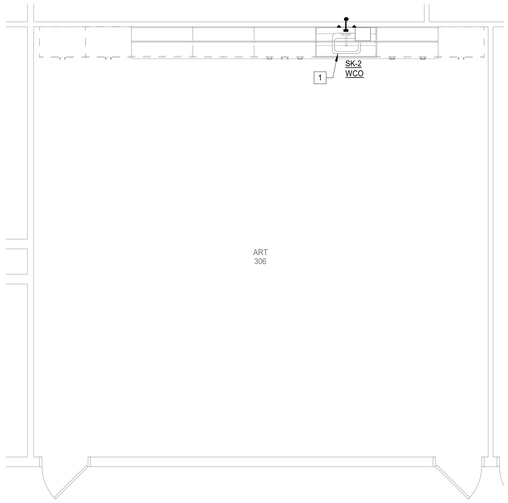
B. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

PLUMBING GENERAL NOTES

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.
4. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
5. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
6. REFER TO PLUMBING DETAILS AND SCHEDULES SHEET(S).

PLUMBING KEYED NOTES

1 PROVIDE NEW PLUMBING FIXURE(S) AS INDICATED. CONNECT TO EXISTING UTILITIES. CW, HW (IF APPLICABLE), SANITARY AND VENT.



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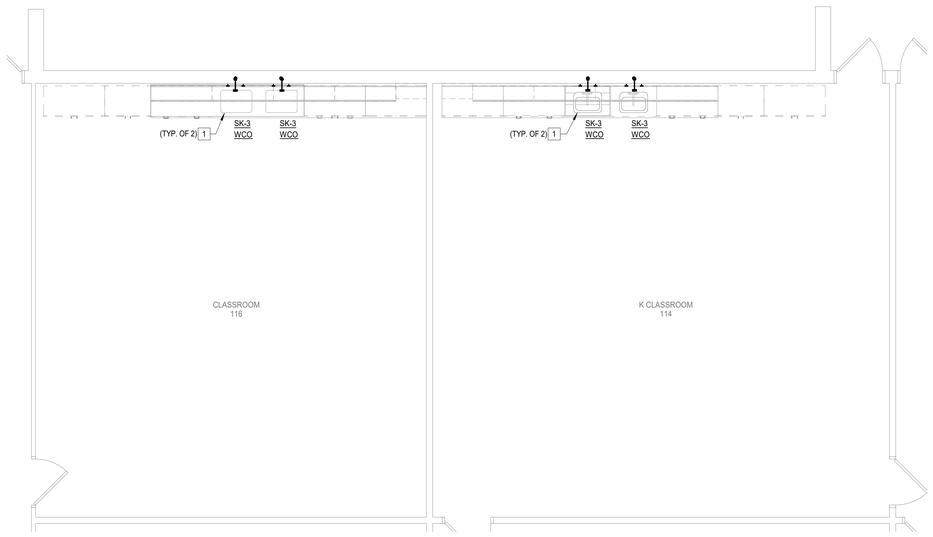
2 **PLUMBING ENLARGED PLAN - LEVEL 1 - ART 306**
Scale: 1/4" = 1'-0"



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1 **PLUMBING ENLARGED PLAN - LEVEL 1 - K CLASSROOM**
Scale: 1/4" = 1'-0"

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Title
PLUMBING ENLARGED FLOOR PLANS

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

P301-RES

Pick location in Project Information
11/27/2025 11:18:43 AM

ORIGINAL SHEET - ARCH E1

PLUMBING GENERAL NOTES

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
10. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
12. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
14. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
15. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
16. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

PLUMBING FIXTURE SCHEDULE

TYPE:	SK-2 (T.A.S. COMPLIANT)
SERVES:	ART 306
DESCRIPTION:	SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 22" X 19-1/2" X 4" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS. ELKAY #LRAD221940.
FAUCET:	CHROME PLATED CONCEALED DECK-MOUNT FAUCET, 8" ON CENTERS, 8" RIGID/SWING GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, 1.5 GPM LAMINAR FLOW, VANDAL PROOF. CHICAGO MODEL #786-GN8AE36XKABCP.
MIXING VALVE:	ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE. LEAD FREE BRONZE BODY, INTEGRAL CHECK VALVES, COMPRESSION FITTINGS, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER THERMOPLASTIC SHUTTLE. LEONARD 170-LF-BRKT. (105 F)
STRAINER:	CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152.
INTERCEPTOR:	A.R.C. CAST ALUMINUM TOP ACCESS SOLIDS INTERCEPTOR, GASKETED COVER, REMOVABLE SEDIMENT BUCKET. 15 GPM FLOW RATE. WADE 5720.
SUPPLIES:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
ROUGH-IN:	2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	SK-3 (T.A.S. COMPLIANT)
SERVES:	K CLASSROOM 114, CLASSROOM 116
DESCRIPTION:	SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 22" X 19-1/2" X 4" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS. ELKAY #LRAD221940.
FAUCET:	CHROME PLATED CONCEALED DECK-MOUNT FAUCET, 8" ON CENTERS, 8" RIGID/SWING GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, 1.5 GPM LAMINAR FLOW, VANDAL PROOF. CHICAGO MODEL #786-GN8AE36XKABCP.
MIXING VALVE:	ASSE 1070 CERTIFIED POINT OF USE MIXING VALVE. LEAD FREE BRONZE BODY, INTEGRAL CHECK VALVES, COMPRESSION FITTINGS, COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH POLYMER THERMOPLASTIC SHUTTLE. LEONARD 170-LF-BRKT. (105 F)
STRAINER:	CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152.
SUPPLIES:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
ROUGH-IN:	2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	WCO
DESCRIPTION:	WALL CLEANOUT, CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK BRONZE PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE #8550-75 WITH #8304-VP. PROVIDE WADE #8560 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSTATE DRAIN PIPING (CD)
D	CONDENSTATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
CDW	CHILLED DRINKING WATER PIPING (CDW)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
SV	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
CO	CLEANOUT (WALL OR CEILING) (CO)
FCO	FLOOR CLEANOUT (FCO)
ECO	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
HD	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
AP	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1 4" VTR	RISER FLAG

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Registration: F-4111
Project No: 2023-04376-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	AA	AA	EH	11/27/24

Permit/Seal

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
09-24-2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS
6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
PLUMBING SCHEDULES

Project No.	Scale
214001246	12" = 1'-0"

Revision | Drawing No.

P401-RES

<Plot location in Project Information>
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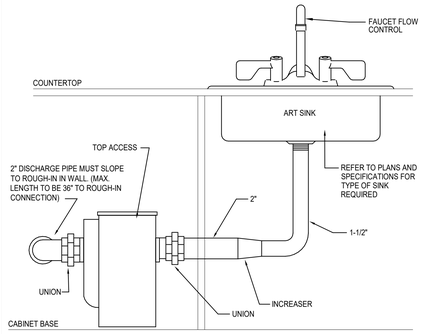
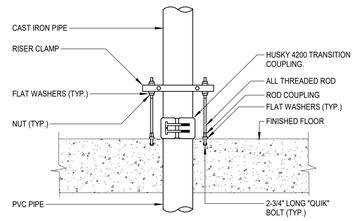
ORIGINAL SHEET - ARCH E1



8 ART SINK SOLIDS

SCALE: NONE

PSAN12- 05/16/24

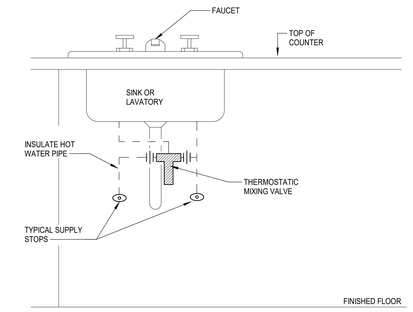


NOTE:
1. MAKE CONNECTION FROM PVC BELOW SLAB TO CAST IRON ABOVE SLAB WITH HUSKY 4200 TRANSITION COUPLING.
2. THERE IS TO BE NO EXPOSED PVC ABOVE SLAB.

4 CAST IRON TO PVC TRANSITION

SCALE: NONE

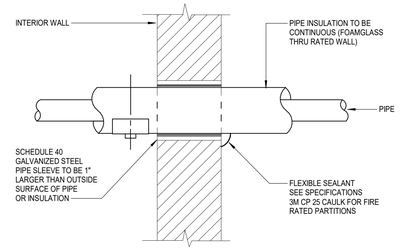
PHW04 - 08/10/20



7 THERMOSTATIC MIXING VALVE AT SINK/LAVATORY DUAL TEMPERATURE

SCALE: NONE

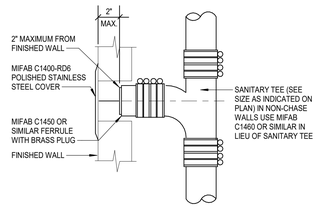
PSL01- XX/XX/XX



3 INTERIOR WALL PENETRATION

SCALE: NONE

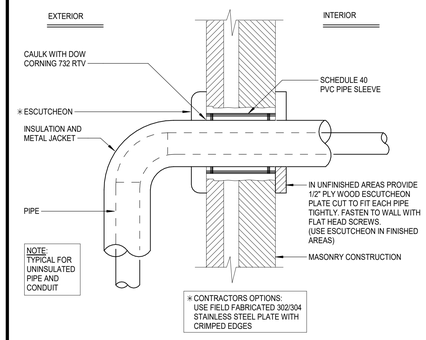
PSAN03- XX/XX/XX



6 WALL CLEANOUT

SCALE: NONE

PSL03- XX/XX/XX

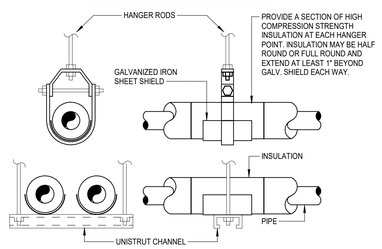


2 EXTERIOR WALL PENETRATION

SCALE: NONE

PP01 - XX/XX/XX

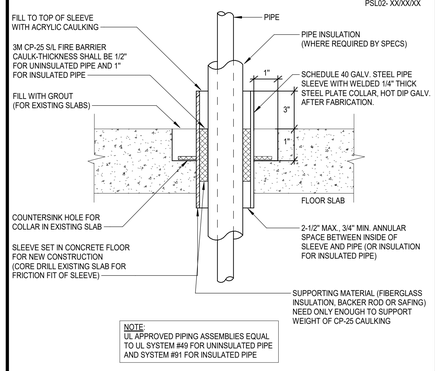
MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GAUGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	18
6"	18	16



5 PIPE SHIELDS FOR INSULATED PIPING

SCALE: NONE

PSL02- XX/XX/XX



NOTE:
UL APPROVED PIPING ASSEMBLIES EQUAL TO UL SYSTEM #49 FOR UNINSULATED PIPE AND SYSTEM #91 FOR INSULATED PIPE

1 INTERIOR FLOOR PENETRATION

SCALE: NONE

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Houston, TX 77064

Registration: F-4111
Project No: 2023-04376-00

Notes

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File Name: N/A	AA Dwn.	AA Dsgn.	EH 11/27/24 Chkd. YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

PLUMBING DETAILS

Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

P501-RES

<Pick Number in Project Information>
7/22/2025 11:18:47 AM

ORIGINAL SHEET - ARCH E1

AUDIO/VISUAL MULTIMEDIA LEGEND

SYMBOL	DESCRIPTION
A## V##	WALL AV ROUGH-IN DETAIL
A## V##	CEILING AV ROUGH-IN DETAIL
A## V##	FLOOR AV ROUGH-IN DETAIL
IWB IWB	INTERACTIVE WHITE BOARD - WALL - CEILING
PJ PJ	MULTIMEDIA PROJECTOR
FP# FP#	MULTIMEDIA FLAT PANEL DISPLAY
S S	LOUDSPEAKER, WALL MOUNTED AND CEILING MOUNTED RESPECTIVELY - # INDICATES TYPE
CP#	CONTROL PANEL
TP#	TOUCH PANEL
M	MICROPHONE, CEILING MOUNTED - # INDICATES TYPE
VC ▷	VOLUME CONTROL
WB	WALL BOX ENCLOSURE
D1 A1	D1 = DIGITAL SINGLE SIDED CLOCK / A1 = ANALOG SINGLE SIDED CLOCK
D2 A2	D2 = DIGITAL DOUBLE SIDED CLOCK / A2 = ANALOG DOUBLE SIDED CLOCK
ENC	CEILING AV ENCLOSURE
C C	PRESENTATION CAMERA - CEILING - WALL MOUNTED

PREMISE SECURITY LEGEND

SYMBOL	DESCRIPTION
CR	CARD READER
CR M	CARD READER MULLION
KP	INTRUSION DETECTION KEYPAD
IC	INTERCOM (1 DATA CABLE)
IC MS	INTERCOM MASTER STATION (1 DATA CABLE)
PB	PANIC/DURESS BUTTON
LD	LOCK DOWN BUTTON
MD	MOTION DETECTOR
GB	ACCOUSTICAL GLASS BREAK SENSOR
BM	BIOMETRIC READER
RX	REQUEST TO EXIT - SURFACE PIR
KS	KEY SWITCH
LA	LOCAL ALARM SOUNDER
RG	RED/GREEN INDICATOR LIGHT
DB	DOORBELL
DH	MAGNETIC DOOR HOLD
DR	DOOR RELEASE
RX	REQUEST TO EXIT - INTEGRAL TO DOOR HARDWARE
DC	DOOR CONTACT / MONITOR
ES EL EH	ELECTRIFIED STRIKE - ELECTRIFIED LATCH - ELECTRIFIED HARDWARE (REFER TO SCHEDULES)
C C	STANDARD IP SURVEILLANCE CAMERA, (1) CABLE
C C C	180° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° FISHEYE LENS CAMERA
IR	IR ILLUMINATOR

STRUCTURED CABLING LEGEND

SYMBOL	DESCRIPTION
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF DATA CABLE(S)/JACK(S)
#/#	TELECOMMUNICATIONS OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S)
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S), SURFACE MOUNT
#/#	TELECOMMUNICATIONS OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S), SURFACE MOUNT
W	WALL MOUNT PHONE (1 CABLE/JACK)
W	WALL MOUNT PHONE, SURFACE MOUNT (1 CABLE/JACK)
#	FLOOR MOUNTED OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#/#	FLOOR MOUNTED OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#	CEILING MOUNTED DATA OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S)
AP#	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
APE>	WALL MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
	CABLING SLEEVE(S)
	TYPICAL LADDER RACK
	TYPICAL CABLE TRAY, BASKET STYLE

GENERAL ANNOTATION LEGEND

SYMBOL	DESCRIPTION
MER	MAIN EQUIPMENT ROOM
TR	TELECOMMUNICATION ROOM
MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
ETR	EXISTING TO REMAIN
PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
PSC	PREMISE SECURITY CONTRACTOR
SCC	STRUCTURAL CABLING CONTRACTOR
AVC	AV/MULTIMEDIA CONTRACTOR
UNO	UNLESS NOTED OTHERWISE
ACS	ACCESS CONTROL SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM

TECHNOLOGY SHEET INDEX

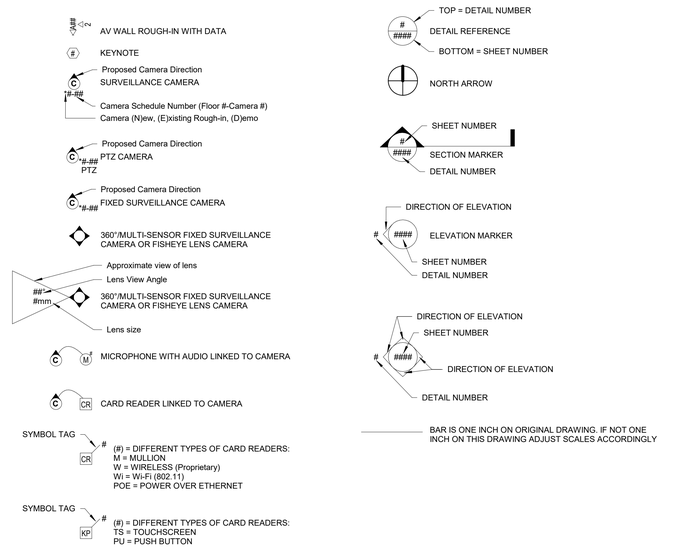
SHEET NUMBER	SHEET NAME
T000 - RES	TECHNOLOGY - INDEX SHEET
TD101	TECHNOLOGY - LEVEL ONE DEMOLITION
T010 - RES	TECHNOLOGY - SITE PLAN
T101 - RES	TECHNOLOGY - GYM & ELP

TECHNOLOGY - GENERAL NOTES

1. EACH KEYNOTE MAY NOT BE UTILIZED ON EVERY SHEET.
2. ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
3. ALL CABLES SHALL BE CONCEALED.
4. EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 2" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL COMPLY WITH NEC.
5. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL REVIEW CONDITIONS AND COORDINATE WITH OTHER TRADES AS NECESSARY FOR EXACT PLACEMENT.

TECHNOLOGY SYMBOLS LEGEND

NOT ALL SYMBOLS ARE USED



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Notes

Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL By	RSL Appd	2025.09.22 YYYY.MM.DD
Issued			
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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Client/Project Logo

BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title

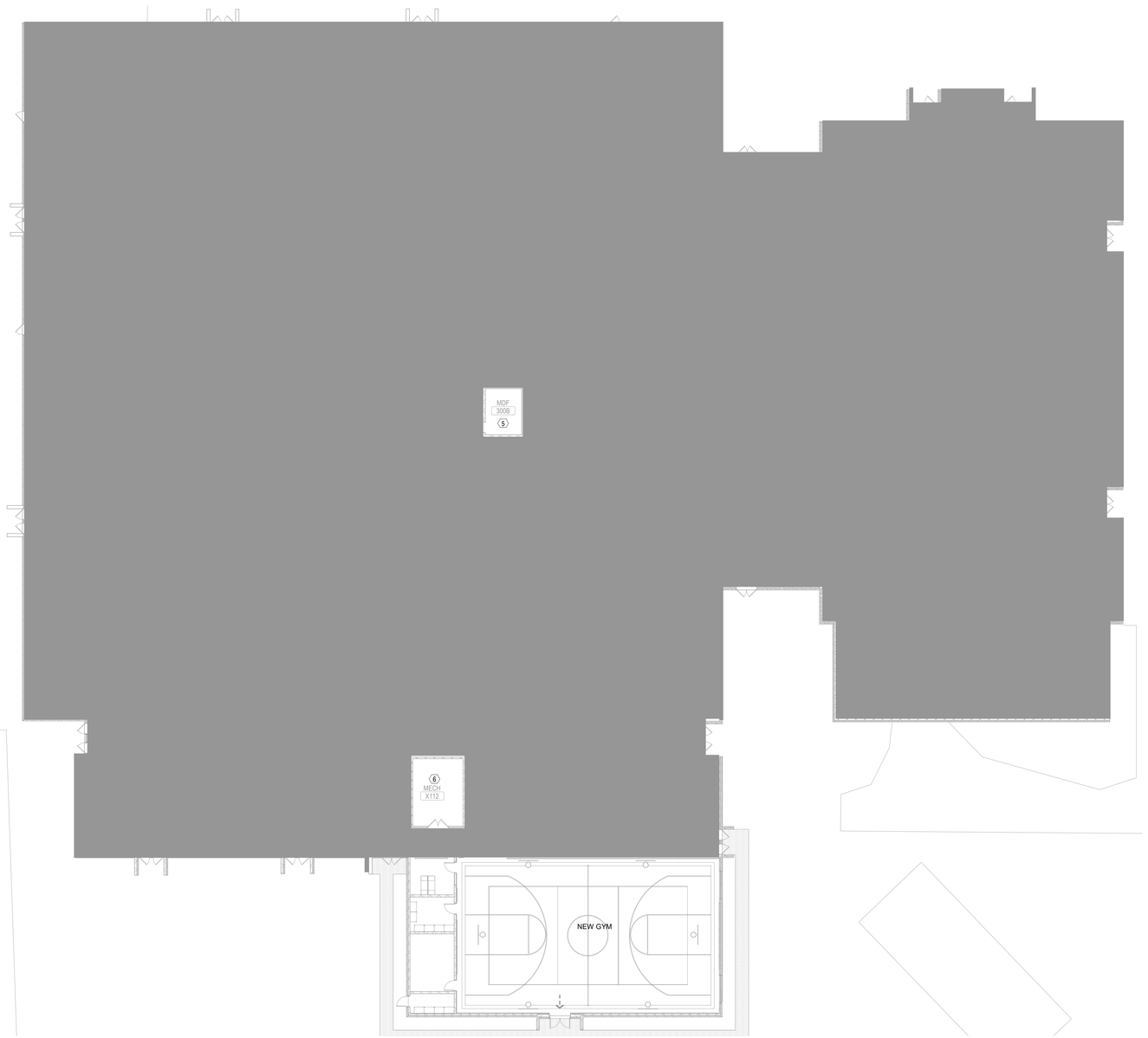
TECHNOLOGY - INDEX SHEET

Project No.	Scale
214001246	As indicated
Revision	Drawing No.

T000 - RES

<Pick location in Project Information>
YYYY.MM.DD 4:53:31 PM

ORIGINAL SHEET - ARCH E1



1 01 - Level 1 - Site Plan
SCALE: 1/16" = 1'-0"

TECHNOLOGY KEYNOTES

1. CONTRACTOR TO PROVIDE AND INSTALL PROTECTIVE WIRE CAGES FOR WIRELESS ANALOG CLOCKS.
2. ELECTRICAL CONTRACTOR TO PROVIDE 1-1/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
4. ELECTRICAL CONTRACTOR TO PROVIDE 1" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
5. NEW ACCESS CONTROL DEVICES ARE TO BE RUN TO THIS ROOM. EXPANSION MODULES REQUIRED SHALL UTILIZE AVAILABLE OPEN SLOTS IN EXISTING ENCLOSURES.
6. NEW INTRUSION DEVICES ARE TO BE RUN TO THIS ROOM.
7. EXISTING INTRUSION MOTION SENSOR TO BE REINSTALLED AND AIMED FOR BEST PERIMETER COVERAGE.
8. EXISTING INTRUSION SIREN TO BE REINSTALLED.
9. EXISTING PA SPEAKER TO BE REINSTALLED.
10. EXISTING WIRELESS ACCESS POINT TO BE REINSTALLED.
11. NEW ACCESS CONTROL CABLING SHALL BE RUN TO EXISTING ACCESS CONTROL ENCLOSURE, TO PORTS THAT WERE ABANDONED AT TIME OF DEMOLITION.

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			2025.07.23 YYYY.MM.DD

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2022 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
TECHNOLOGY - SITE PLAN

Project No.
214001246

Scale
As indicated

Revision

Drawing No.
T010 - RES

ORIGINAL SHEET - ARCH E1
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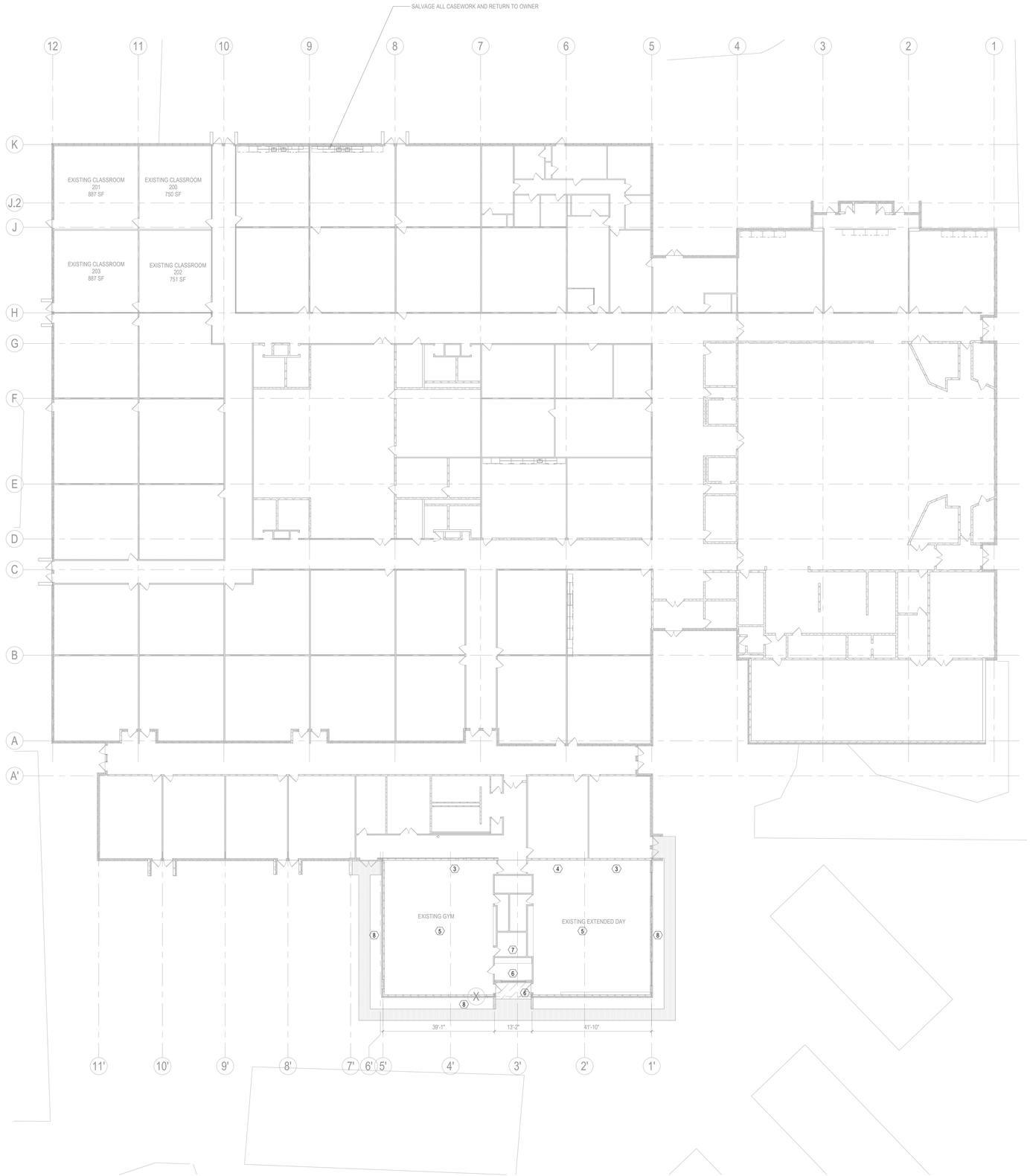

1 01 - Level 1 Demolition
SCALE: 1/16" = 1'-0"

DEMOLITION KEYNOTES

1. EXSITING PA SPEAKER AND WIRELESS ACCESS POINT TO REMAIN. LIFT TO RED IRON DURING DEMOLITION,THEN RE-INSTALL.
2. NOT USED.
3. EXISTING MOTION DETECTOR TO REMAIN. LIFT TO RED IRON DURING CONSTRUCTION, THEN RE-INSTALL. COORDINATE WITH FBISD FOR DISCONNECT.
4. EXISTING INTRUSION SIREN TO REMAIN. LIFT TO RED IRON DURING CONSTRUCTION, THEN RE-INSTALL. COORDINATE WITH FBISD FOR DISCONNECT.
5. REMOVE EXISTING WIRELESS ACCESS POINT (DEMO CABLE BACK TO IDF/MDF) AND PA SPEAKER (SPLICE PA CABLE SUCH THAT THE REST OF THE LOOP REMAINS ACTIVE), RETURN TO OWNER.
6. DEMO THE FOLLOWING IN THIS ROOM:
   (4) DATA CABLES BACK TO TELECOM ROOM
   (1) DOOR BELL
   (1) INTRUSION MOTION DETECTOR,COORDINATE WITH FBISD FOR DISCONNECT.
   EXISTING ACCESS CONTROL SHALL BE DEMOLISHED BACK TO ACCESS CONTROL PANEL.
7. DEMO (2) DATA CABLES BACK TO TELECOM ROOM.
8. PROTECT EXISTING DEVICES AND CONNECTED CABLES ON EXTERIOR WALLS.

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2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
TECHNOLOGY - LEVEL ONE DEMOLITION

Project No. 214001246
Scale As indicated
Revision
Drawing No.

TD101

<Pick location in Project Information>
1/22/2025 4:53:24 PM

ORIGINAL SHEET - ARCH E1

TECHNOLOGY KEYNOTES

1. CONTRACTOR TO PROVIDE AND INSTALL PROTECTIVE WIRE CAGES FOR WIRELESS ANALOG CLOCKS.
2. ELECTRICAL CONTRACTOR TO PROVIDE 1-1/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT FOR ANY PORTION OF THE WIRE-CABLE PATHWAY THAT IS NOT IN ACCESSIBLE CEILING.
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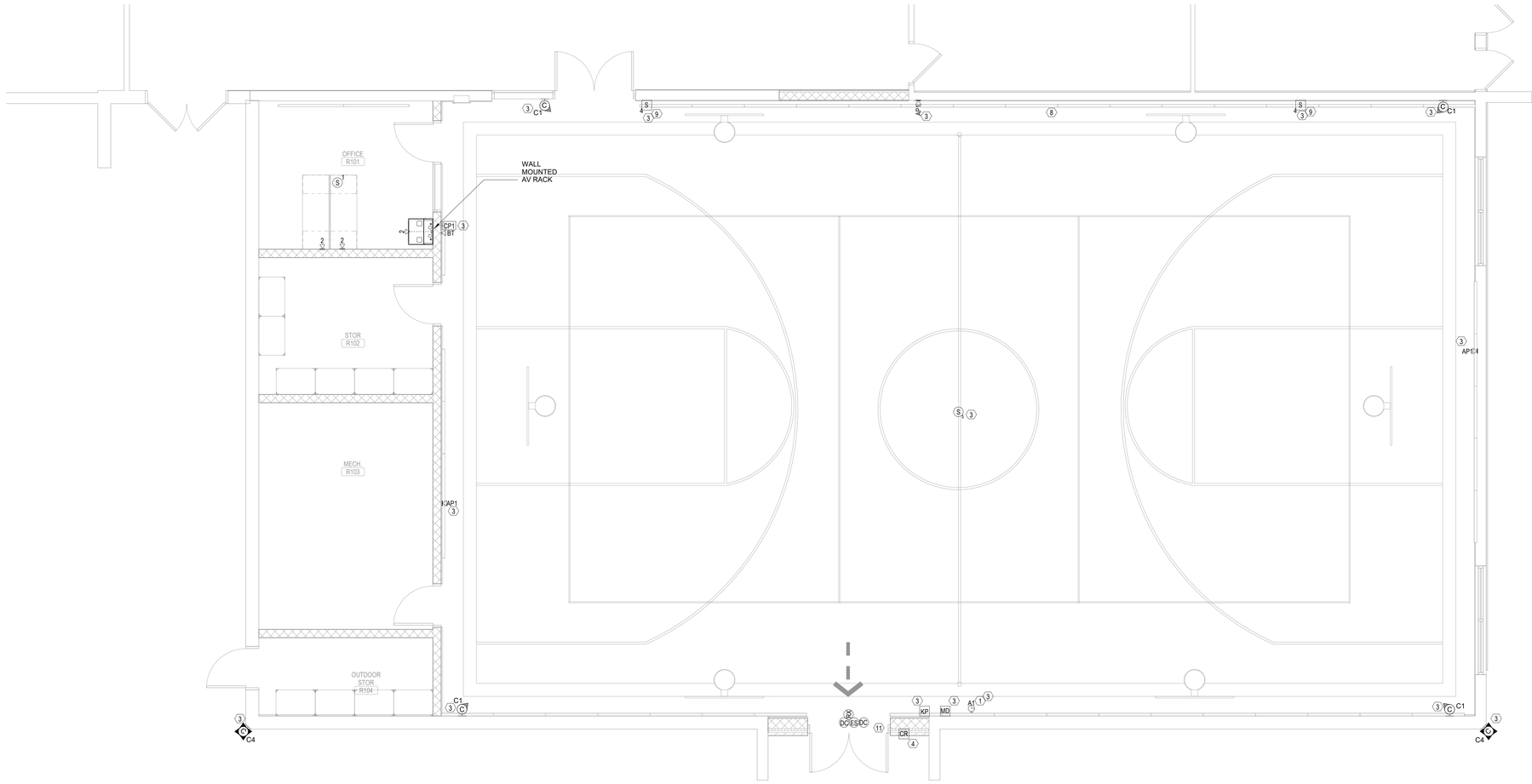
7. EXISTING INTRUSION MOTION SENSOR TO BE REINSTALLED AND AIMED FOR BEST PERIMETER COVERAGE.
8. EXISTING INTRUSION SIREN TO BE REINSTALLED.
9. EXISTING PA SPEAKER TO BE REINSTALLED.
10. EXISTING WIRELESS ACCESS POINT TO BE REINSTALLED.
11. NEW ACCESS CONTROL CABLING SHALL BE RUN TO EXISTING ACCESS CONTROL ENCLOSURE, TO PORTS THAT WERE ABANDONED AT TIME OF DEMOLITION.



1 01 - Gym
SCALE: 1/4" = 1'-0"

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100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

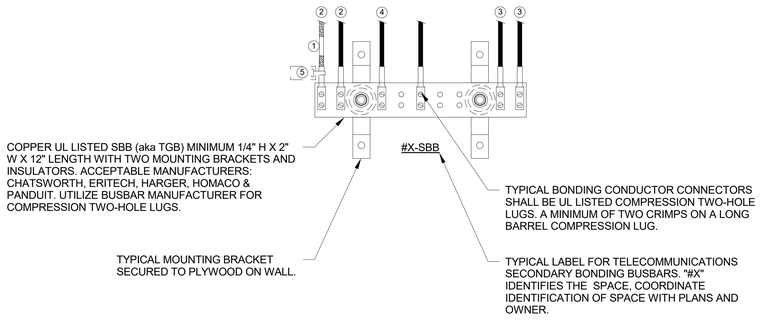
Title
TECHNOLOGY - GYM & ELP

Project No. 214001246
Scale As indicated
Revision
Drawing No.

T101 - RES

<Pick location in Project Information>
YYYY.MM.DD 4:53:27 PM

ORIGINAL SHEET - ARCH E1

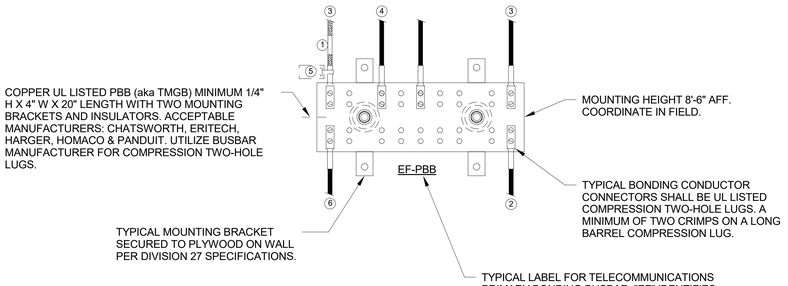


SBB GROUNDING & BONDING NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF TBC AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A TBC TO A COMPRESSION LUGTAP TO DEDICATED HOME RUN BACK TO THE SBB. SEE DETAILS.
3. TYPICAL TBB(S) THAT INTERCONNECTS ALL IDF SBB(S) WITH THE PBB.
4. BONDING CONDUCTOR TO EACH ARMORED FIBER JACKET. IDF SIDE ONLY.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0



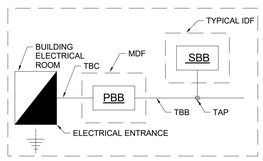
PBB GROUNDING & BONDING RISER NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE UTILIZED EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB) FOR BACKBONE BONDING CONDUCTOR (BBC), IF APPLICABLE.
4. TYPICAL TBB(S) THAT INTERCONNECTS ALL SBB(S) WITH THE PBB.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (TBC) TO BUILDING GROUNDING ELECTRODE. TBC SHALL NOT BE SMALLER THEN THE TBB.

GROUNDING & BONDING GENERAL NOTES

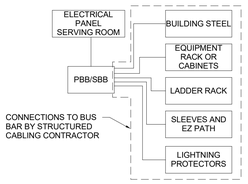
1. ELECTRICAL CONTRACTOR RESPONSIBILITY -PRIMARY BONDING BUSBAR (PBB), SECONDARY BONDING BUSBAR(S) (SBB), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE, BUILDING STRUCTURAL STEEL, AND BONDING OF ALL SBB(S) TO THE PBB SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL GROUNDING OF OF EQUIPMENT, RACKS, CABINETS, AND DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 27 TECHNOLOGY CONTRACTOR.
3. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
4. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED. WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-C.
5. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. STRUCTURED CABLING CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   B. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
   C. EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT .

1 GROUNDING AND BONDING DETAIL
SCALE: NS

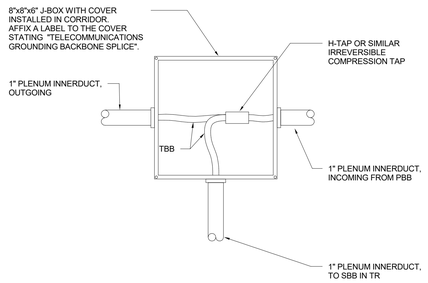


NOTES:
BBC = BACKBONE BONDING CONDUCTOR
BN = BONDING NETWORK
CBB = COMMON BONDING BUSBAR
CTBB = COMMON TELECOMMUNICATIONS BONDING BACKBONE
IDF = INDEPENDENT DISTRIBUTION FRAME
MDF = MAIN DISTRIBUTION FRAME
PBB = PRIMARY BONDING BUSBAR
RBB = RACK BONDING BUSBAR
RBC = RACK BONDING CONDUCTOR
SBB = SECONDARY BONDING BUSBAR
SBC = SECONDARY BONDING CONDUCTOR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
TBC = TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

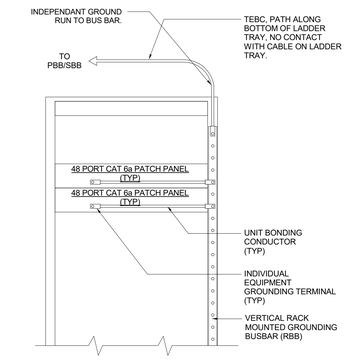
2 TYPICAL GROUNDING FLOW DIAGRAM
SCALE: NS



3 TELECOM ROOM BONDING DIAGRAM
SCALE: NS



4 TELECOM BONDING BACKBONE SPLICE DETAIL
SCALE: NS



5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

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Revision	By	Appd	YYYY.MM.DD
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CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
TECHNOLOGY - DETAILS

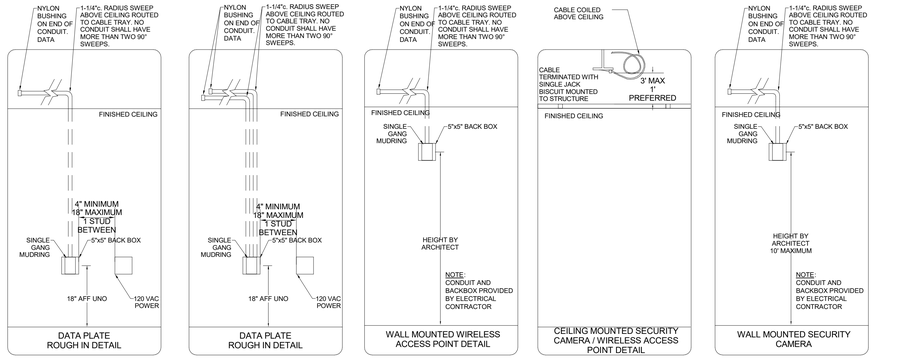
Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

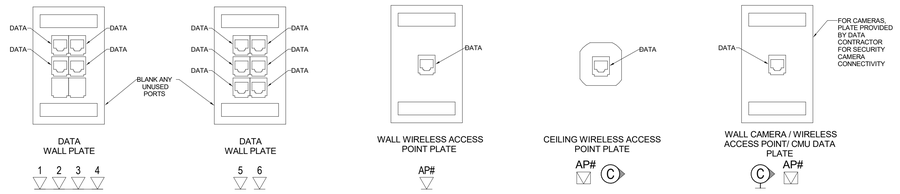
T501 - RES

«Pcs location in Project Information»
7/22/2025 4:53:28 PM
ORIGINAL SHEET - ARCH E1

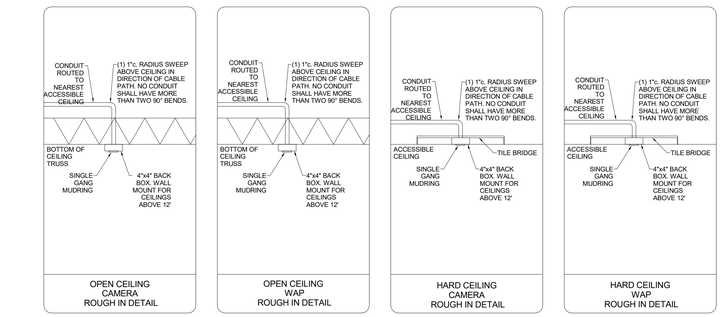
GENERAL NOTE

1. FACE PLATE DETAIL FOR OUTLET CONFIGURATION PURPOSES ONLY. CONTRACTOR TO SELECT TYPE OF FACE PLATE TO MATCH CONNECTIVITY HARDWARE, FLOOR BOX AND/OR MODULAR FURNITURE OPENING.

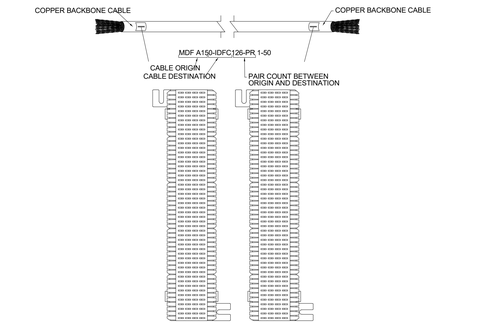




1 DATA ROUGH-IN DETAILS
SCALE: NS

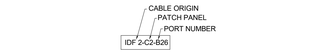


2 HARD AND OPEN CEILING DETAILS FOR CAMERAS AND DATA OUTLETS
SCALE: NTS



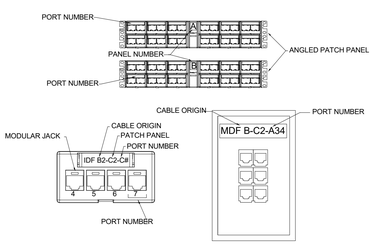
NOTE: 1) PA CONTRACTOR SHALL ENSURE THAT CABLE AND 66 BLOCK SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

PA SYSTEM COPPER BACKBONE LABELING SCHEME



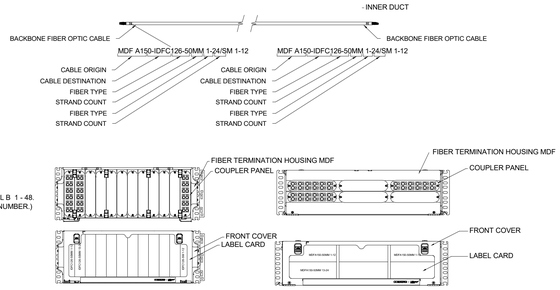
NOTE: 1) FOR DATA JACKS LOCATED ABOVE CEILING (WAP, CAMERA, ETC.)
2) 3/4" SELF-LAMINATING LABEL, WHITE BACKGROUND, BLACK TEXT
3) TEXT IN PLAIN FONT (NO ITALICS, BOLD OR UNDERLINE); TEXT CENTERED IN LABEL. TEXT HEIGHT NOT TO EXCEED 66% OF LABEL HEIGHT.

CEILING GRID LABELING SCHEME



NOTE: 1) CABLE SHALL HAVE IDENTICAL LABEL AT BOTH ENDS
2) EACH PATCH PANEL SHALL BE UNIQUELY LABELED ALPHABETICALLY IN EACH MDF OR IDF
3) EACH PATCH PORT SHALL BE NUMBERED SEQUENTIALLY EX. PATCH PANEL A 1 - 48 , PATCH PANEL B 1 - 48.
4) PRIOR TO LABELING, CONSULT WITH OWNER FOR PROPER IDF NUMBERING. (NO NOT USE ROOM NUMBER.)

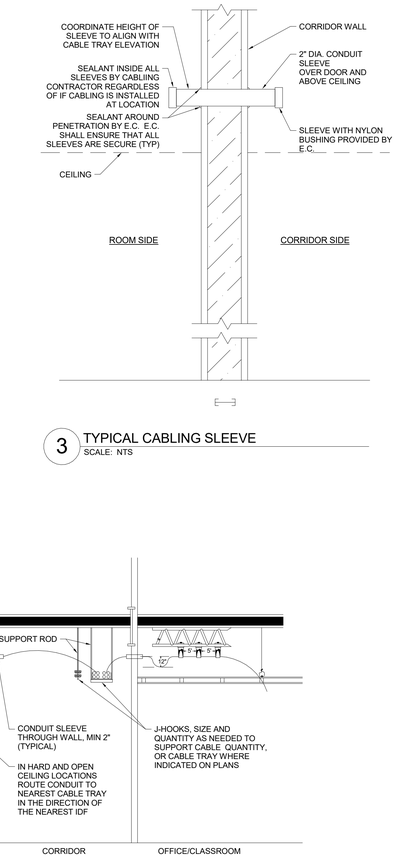
HORIZONTAL DATA CABLE LABELING SCHEME



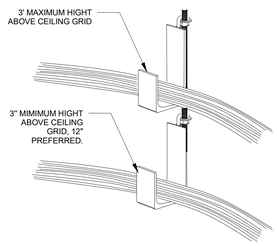
NOTE: 1) CABLE AND INNERDUCT SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

FIBER BACKBONE LABELING SCHEME

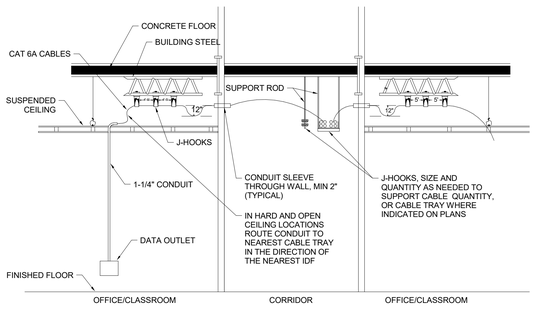
5 LABELING & CABLING SCHEMES
SCALE: NTS



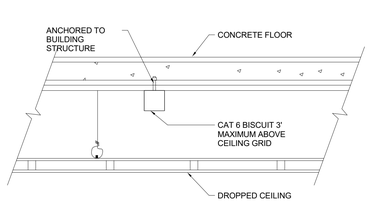
3 TYPICAL CABLING SLEEVE
SCALE: NTS



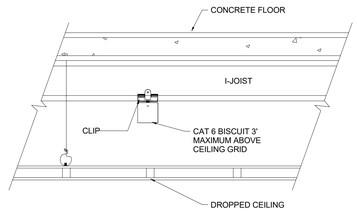
4 PANDUIT J-HOOK DETAIL
SCALE: NTS



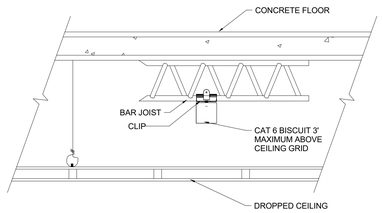
6 CABLE PATHWAY CROSS SECTION
SCALE: NTS



7 DROPPED CEILING MOUNTING DETAIL
SCALE: NS



8 I-JOIST MOUNTING DETAIL
SCALE: NS



9 BAR JOIST MOUNTING DETAIL
SCALE: NS

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
TECHNOLOGY - DETAILS

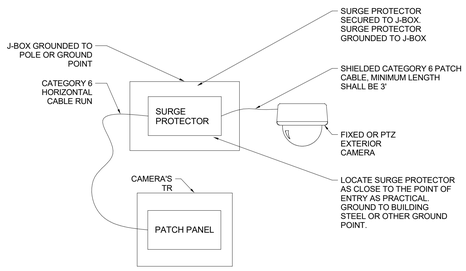
Project No.	Scale
214001246	12" = 1'-0"
Revision	Drawing No.

T502 - RES

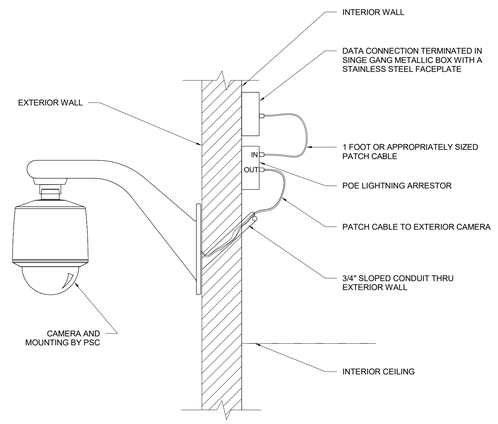
<File location in Project Information> 7/22/2025 4:53:29 PM
ORIGINAL SHEET - ARCH E1

GENERAL NOTES:

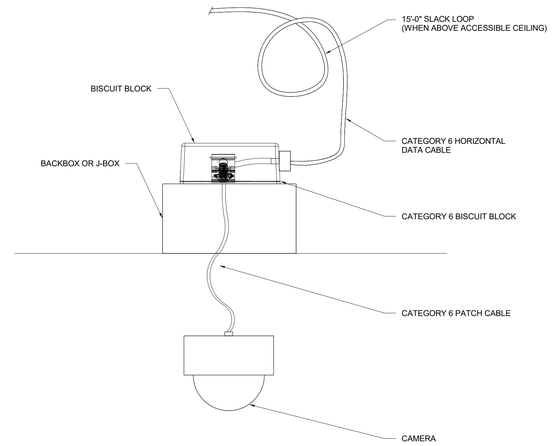
1. REFER TO SECURITY SCHEDULE AND WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX" CAMERAS.



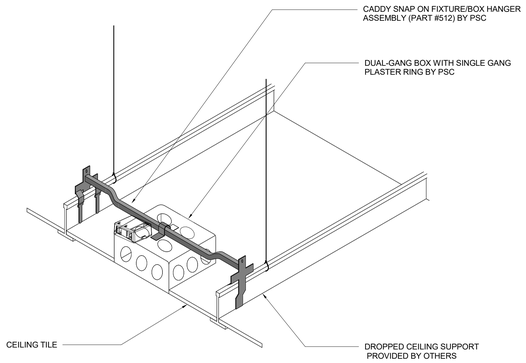
1 CAMERA SIDE SURGE PROTECTOR FOR EXTERIOR CAMERAS
SCALE: NS



2 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



3 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



4 TILE BRIDGE DETAIL
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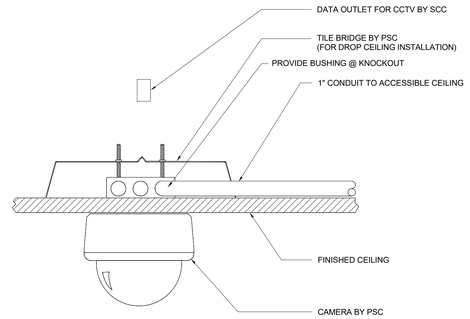
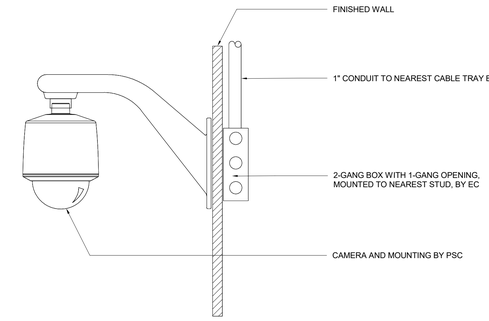


5 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



6 WALL MOUNTED CAMERA DETAIL
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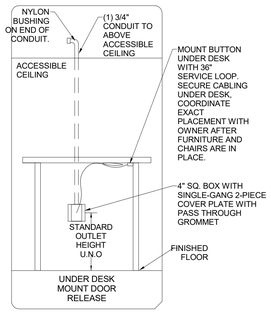
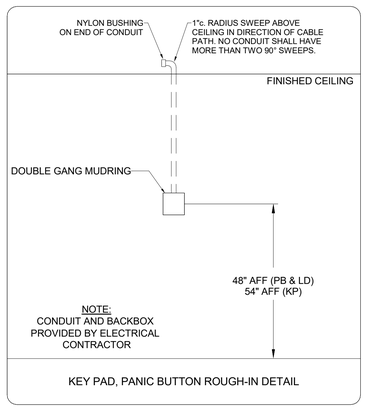


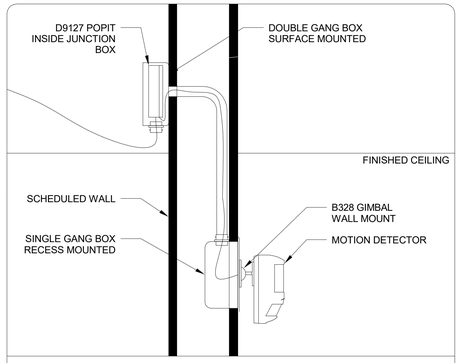
DR

7 UNDER DESK MOUNT DOOR RELEASE BUTTON DETAIL
SCALE: NTS

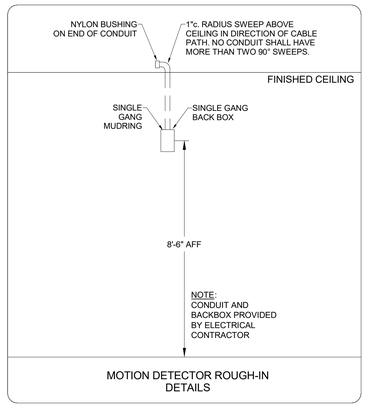


KP PB LD

1 ROUGH-IN DETAILS: KP, PB, LD
SCALE: NTS



2 WALL MOUNTED MD DETAIL
SCALE: NTS



MD

3 IDS WALL-MOUNT MD ROUGH-IN DETAIL
SCALE: NTS

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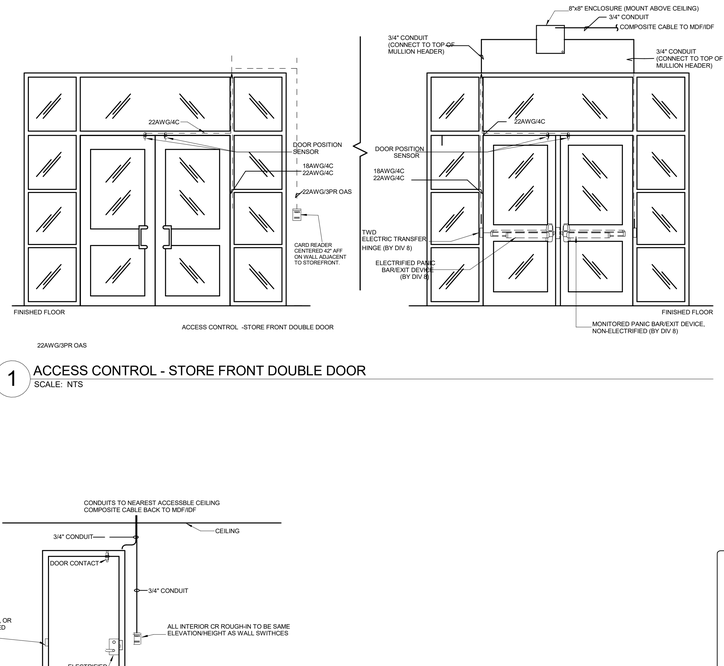
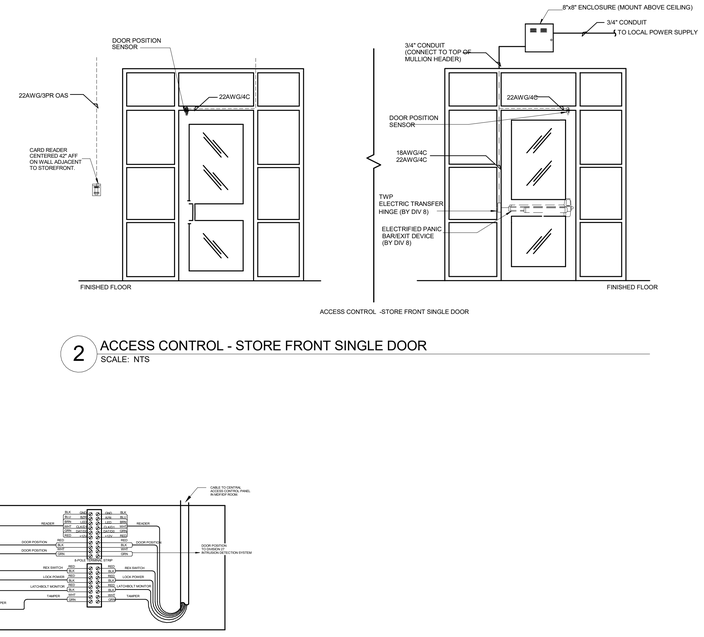
Title
TECHNOLOGY - SECURITY DETAILS

Project No. 214001246
Scale 12" = 1'-0"
Revision
Drawing No. T600 - RES

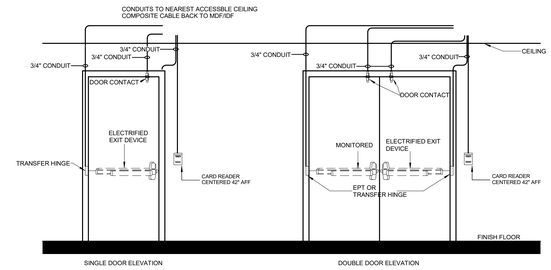
<Pick location in Project Information>
12/2/2025 4:53:33 PM
ORIGINAL SHEET - ARCH E1



1 ACCESS CONTROL - STORE FRONT DOUBLE DOOR
SCALE: NTS



2 ACCESS CONTROL - STORE FRONT SINGLE DOOR
SCALE: NTS



3 ACCESS CONTROL - STEEL/HOLLOW METAL DOOR.
SCALE: NTS

4 ACCESS CONTROL - PLAM / INTERIOR DOOR ELEVATION
SCALE: NTS

5 ACCESS CONTROL - WIRING DETAIL - EXIT DEVICE W/ BUILT-IN REX
SCALE: NTS

SHEET GENERAL NOTES:

1. CONDUIT ROUGH-IN IS A GUIDE FOR WHAT WILL BE REQUIRED FOR EACH DOOR. AS DOOR COMPONENTS CHANGE, EXACT CONDUIT LOCATION WILL ALSO NEED TO BE ADJUSTED.
2. CARD READERS SHOWN WITH AN ANNOTATION "M" NEXT TO THE CARD READER ARE TO BE MULLION MOUNTED AND NO CARD READER ROUGH-IN IS REQUIRED.
3. PROTECT EXISTING-TO-REMAIN ACCESS CONTROL DEVICES AND CABLE THROUGHOUT RENOVATION WORK. IF CABLE AND/OR DEVICES ARE DAMAGED, SECURITY CONTRACTOR TO REPLACE WITH NEW.

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Notes

Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

Permit/Seal

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Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

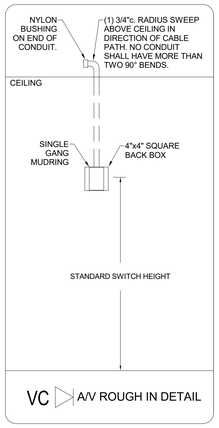
Title
TECHNOLOGY - SECURITY DETAILS

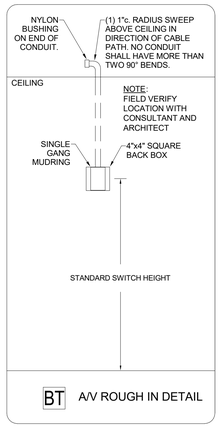
Project No. 214001246
Scale 12" = 1'-0"
Revision
Drawing No.

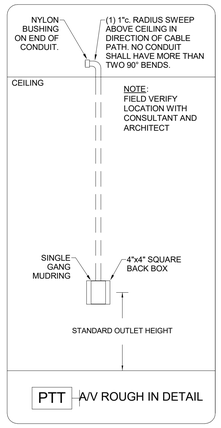
T601 - RES

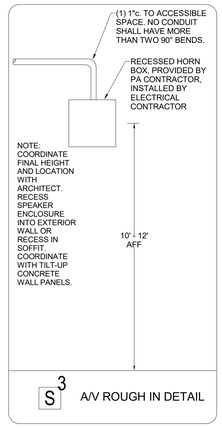
<Pick location in Project Information>
1/22/2025 6:53:11 PM
ORIGINAL SHEET - ARCH E1

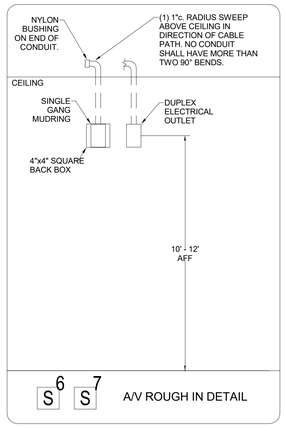
AS PERMITTED BY WALL THICKNESS, ALL JUNCTION BOXES TO HAVE NOMINAL DEPTH OF 3-1/2" UNLESS NOTED OTHERWISE

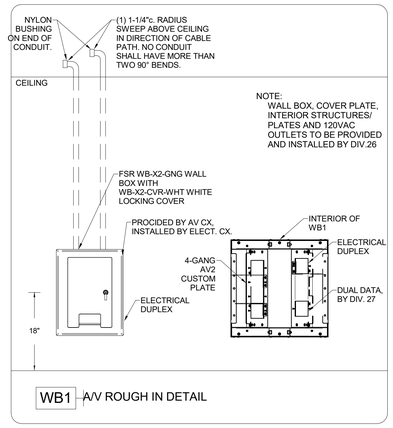








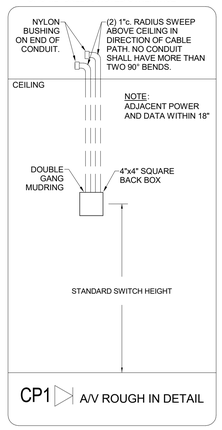


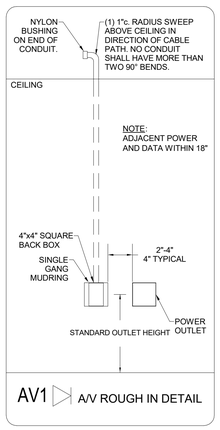


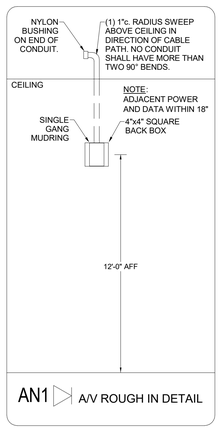
1 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE

SCALE: NTS

AS PERMITTED BY WALL THICKNESS, ALL JUNCTION BOXES TO HAVE NOMINAL DEPTH OF 3-1/2" UNLESS NOTED OTHERWISE

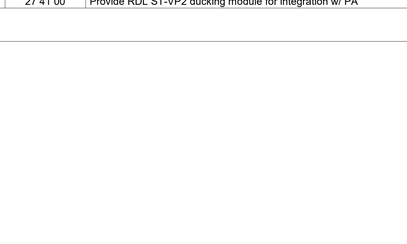






2 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR

SCALE: NTS



3 OUTSIDE LOUDSPEAKER DETAIL

SCALE: NTS

4 AV1 DETAIL

SCALE: NTS

CAMERA TYPE	MANUFACTURER	MODEL NUMBER	GENERAL DESCRIPTION
C1	PANASONIC (i-PRO)	WV-S2252L* (WV-S22500-V3L)	5MP INTERIOR VANDAL DOME - CORR., COMMON, SPED
C2	PANASONIC (i-PRO)	WV-S2552L* (WV-S25500-V3LN)	5MP EXTERIOR VANDAL DOME
C3	PANASONIC (i-PRO)	WV-S4151* (WV-S4156A)	5MP 360 (FISHEYE) - STAIRWELLS
C4	PANASONIC (i-PRO)	WV-S8531N* (WV-S8544L)	4x2MP EXTERIOR MULTI - BUILDING PERIMETER
C5	PANASONIC (i-PRO)	WV-X8571N* (WV-S8574L)	4x4K (33MP) EXTERIOR MULTI - PARKING LOTS, STADIUM

NOTE: * DENOTES CAMERA MODEL FROM OWNER STANDARDS/TECHNOLOGY GUIDELINES. THESE MODELS HAVE BEEN DISCONTINUED BY THE MANUFACTURER. DIRECT REPLACEMENT MODELS ARE IN ( ) FOLLOWING THE OLDER MODEL CAMERA.

5 Camera Schedule

SCALE: 12" = 1'-0"

	PRODUCT			CONNECTED TO		DIVISION	
Number	Manufacturer	Model	Description	Paging	Program/Local	Provided By	Comments
S1	Lowell	LT2-810-72-BB	2x2 Lay-in tile Speaker	X		27 51 00	Provide 2x2 Grille with speaker (If specified in hard ceiling, replace S1 with S2).
S2	Lowell	810-72	8in Ceiling Speaker	X		27 51 00	Provide Grille and Back Box in Hard Ceiling Areas (If specified in lay-in ceiling, replace S2 with S1).
S3	Lowell	VRG-LUH15TX	Vandal and Weather Resistant 15W Horn	X		27 51 00	Provide with Back Box (Lowell CB84-SGVPO)
S4	Lowell	DSL-805-72	8" Surface Mount Speakers	X		27 51 00	
S5	Octasound	SP840A	Omnidirectional hanging speaker	X	X	27 41 00	Provide RDL ST-VP2 ducking module for integration w/ PA

6 Speaker Schedule

SCALE: 12" = 1'-0"

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Revision	By	Appd	YYYY.MM.DD
100% CONSTRUCTION DOCUMENTS	BRL	RSL	2025.09.22
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.	2025.07.23 YYYY.MM.DD

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Client/Project Logo

Client/Project
CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

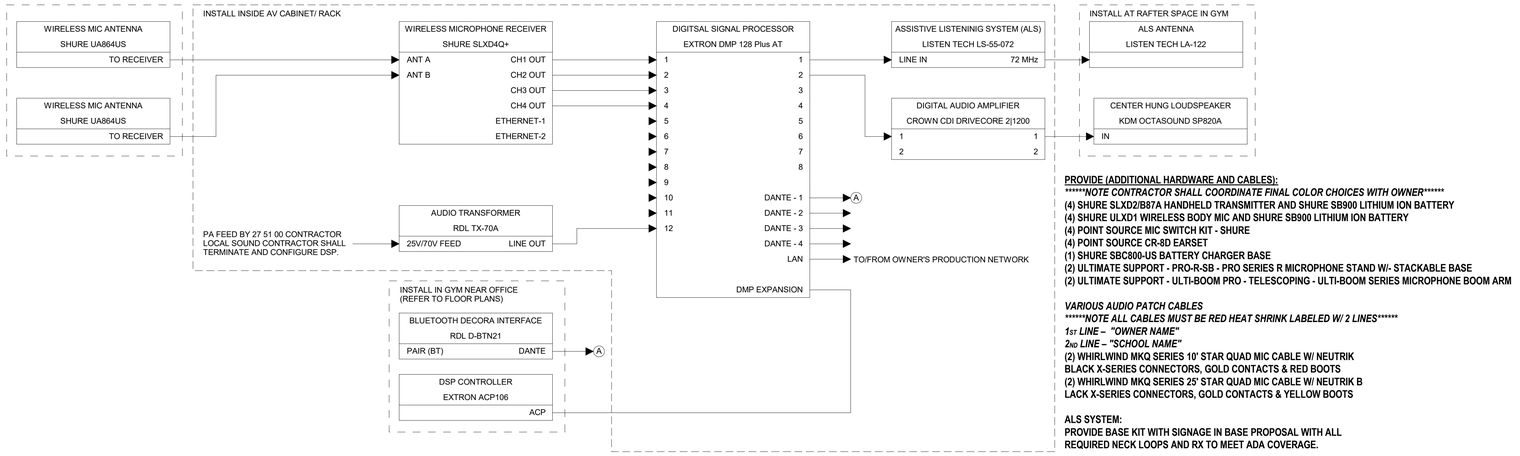
Title
TECHNOLOGY - A/V DETAILS

Project No. 214001246
Scale 12" = 1'-0"
Revision
Drawing No.

T700 - RES

<Pick location in Project Information>
1/22/2025 4:53:27 PM

ORIGINAL SHEET - ARCH E1

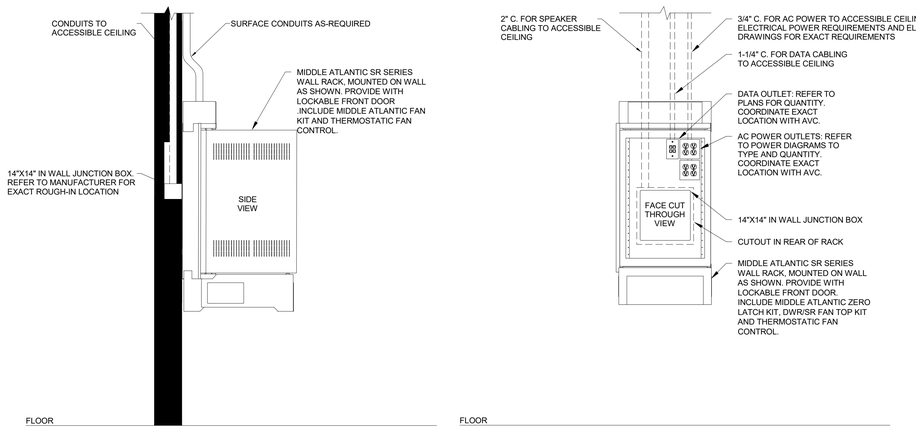


PROVIDE (ADDITIONAL HARDWARE AND CABLES):
*********NOTE CONTRACTOR SHALL COORDINATE FINAL COLOR CHOICES WITH OWNER*********
(4) SHURE SLXD2/B87A HANDHELD TRANSMITTER AND SHURE SB900 LITHIUM ION BATTERY
(4) SHURE ULXD1 WIRELESS BODY MIC AND SHURE SB900 LITHIUM ION BATTERY
(4) POINT SOURCE MIC SWITCH KIT - SHURE
(4) POINT SOURCE CR-8D EARSET
(1) SHURE SBC800-US BATTERY CHARGER BASE
(2) ULTIMATE SUPPORT - PRO-R-SB - PRO SERIES R MICROPHONE STAND W/- STACKABLE BASE
(2) ULTIMATE SUPPORT - ULTI-BOOM PRO - TELESCOPING - ULTI-BOOM SERIES MICROPHONE BOOM ARM

VARIOUS AUDIO PATCH CABLES
*********NOTE ALL CABLES MUST BE RED HEAT SHRINK LABELED W/ 2 LINES*********
1ST LINE – "OWNER NAME"
2ND LINE – "SCHOOL NAME"
(2) WHIRLWIND MKQ SERIES 10' STAR QUAD MIC CABLE W/ NEUTRIK
BLACK X-SERIES CONNECTORS, GOLD CONTACTS & RED BOOTS
(2) WHIRLWIND MKQ SERIES 25' STAR QUAD MIC CABLE W/ NEUTRIK B
LACK X-SERIES CONNECTORS, GOLD CONTACTS & YELLOW BOOTS

ALS SYSTEM:
PROVIDE BASE KIT WITH SIGNAGE IN BASE PROPOSAL WITH ALL
REQUIRED NECK LOOPS AND RX TO MEET ADA COVERAGE.

1 ELEMENTARY GYM AV SYSTEM SCHEMATIC
SCALE: NTS

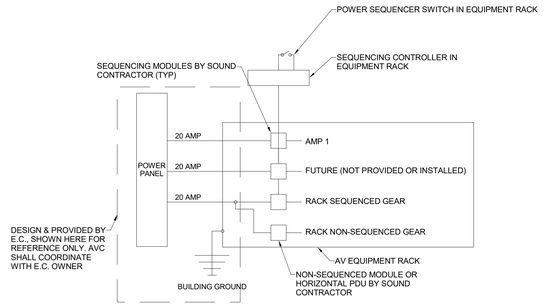


2 MIDDLE ATLANTIC SR SERIES SOUND RACK ROUGH-IN DETAIL
SCALE: NTS

RACK HEADER	
BLANK	ASSISTIVE LISTENING SYSTEM LISTEN TECH
BLANK MIDDLE ATLANTIC VTF1	
POWER SEQUENCER FURMAN CN-2400S W/ (2) CN-20MP	
BLANK MIDDLE ATLANTIC VTF1	
WIRELESS MIC RECEIVER SHURE SLXD4Q+	
BLANK MIDDLE ATLANTIC VTF1	
DIGITAL SIGNAL PROCESSOR (DSP) EXTRON DMP128 AT PLUS	
BLANK MIDDLE ATLANTIC VTF1	
AUDIO POWER AMPLIFIER CROWN CDI DRIVECORE 2|1200	
RACK STORAGE DRAWER MIDDLE ATLANTIC D2LK	

RACK SHALL BE MIDDLE ATLANTIC DWR SERIES WITH LOCKABLE FRONT DOOR. INCLUDE FAN KIT FK-22 AND THERMOSTATIC FAN CONTROL FC-4-1CA.

3 ES GYM AUDIO RACK ELEVATION
SCALE: NTS



4 ELECTRICAL POWER REQUIREMENTS FOR ES GYM AV RACK
SCALE: NTS

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Issued	By	Appd	YYYY.MM.DD
File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd. 2025.07.23 YYYY.MM.DD

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2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
CLIENT NAME

RIDGEGATE ELEMENTARY SCHOOL

6015 W RIDGECREEK DR, HOUSTON, TX 77053

Title
TECHNOLOGY - AV DETAILS

Project No. 214001246
Scale
Revision
Drawing No.
T701

<Pick location in Project Information>
YYYY.MM.DD 4:53:33 PM
ORIGINAL SHEET - ARCH E1

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2023 BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

PROJECT TEAM:

OWNER
FORT BEND INDEPENDENT SCHOOL DISTRICT
13600 MURPHY ROAD
STAFFORD, TX 77477
TEL: (281) 634-5560

ARCHITECT
STANTEC
910 LOUISIANA STREET SUITE 2600
HOUSTON, TX 77002
TEL: (713) 548-5700

GENERAL CONTRACTOR
TBD
STREET
CITY, TX ZIP
TEL: (###) ###-####

CIVIL ENGINEER
DALLY + ASSOCIATES
9800 RICHMOND AVENUE, SUITE 460,
HOUSTON, TEXAS 77042
TEL: (713) 337-8881

STRUCTURAL ENGINEER
DALLY + ASSOCIATES
9800 RICHMOND AVENUE, SUITE 460,
HOUSTON, TEXAS 77042
TEL: (713) 337-8881

MEP ENGINEER
SALAS O'BRIEN
10930 W. SAM HOUSTON PKWY NORTH, SUITE 900
HOUSTON, TEXAS 77064
TEL: (XXX) XXXXXX

LANDSCAPE ARCHITECT
PEA GROUP
TEL: (844) 813-2949

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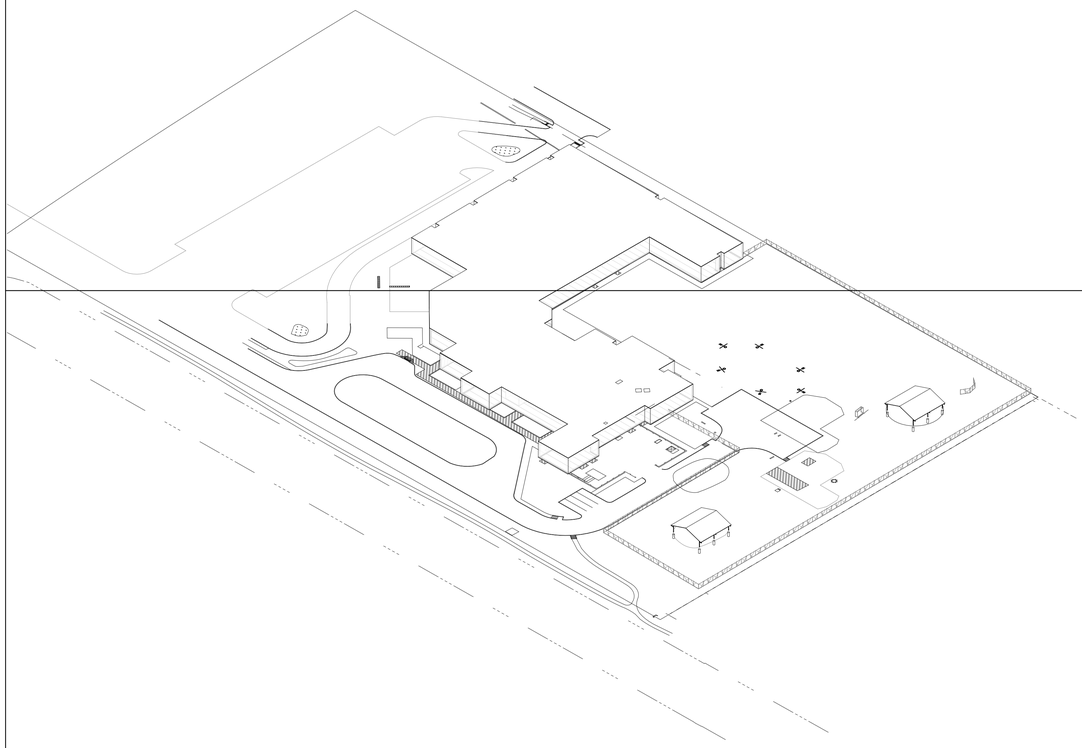

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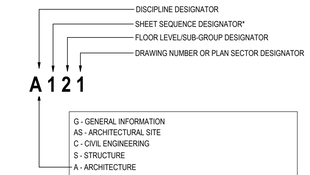
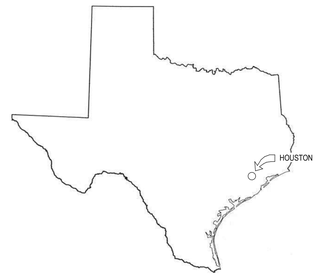


G - GENERAL INFORMATION
AS - ARCHITECTURAL SITE
C - CIVIL ENGINEERING
S - STRUCTURE
A - ARCHITECTURE
P - PLUMBING
M - MECHANICAL
E - ELECTRICAL
T - TECHNOLOGY

*SHEET SEQUENCE DESIGNATOR - ARCHITECTURE KEY

0 - GENERAL ARCHITECTURAL INFORMATION
ASD - ARCHITECTURAL SITE DEMOLITION
AS - ARCHITECTURAL SITE
AD - ARCHITECTURAL DEMOLITION
1 - FLOOR PLAN / ROOF PLAN
2 - ELEVATIONS
3 - EXTERIOR SECTIONS AND DETAILS, INCLUDING ROOF DETAILS; PLAN DETAILS
4 - STAIR, ELEVATOR, TOILET ROOM, AND OTHER ENLARGED PLANS
5 - SCHEDULES
6 - REFLECTED CEILING PLANS
7 - INTERIOR FIT OUT (FINISHES, MILLWORK, AND CASEWORK)
8 - INTERIOR ELEVATIONS AND DETAILS

LOCATION MAP:



VICINITY MAP:

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROCK RD, FRESNO, TX 77545

100% ISSUE FOR BID AND PERMIT
09.24.2025

Stantec Project Number: 214001246
Client Project Number: ####

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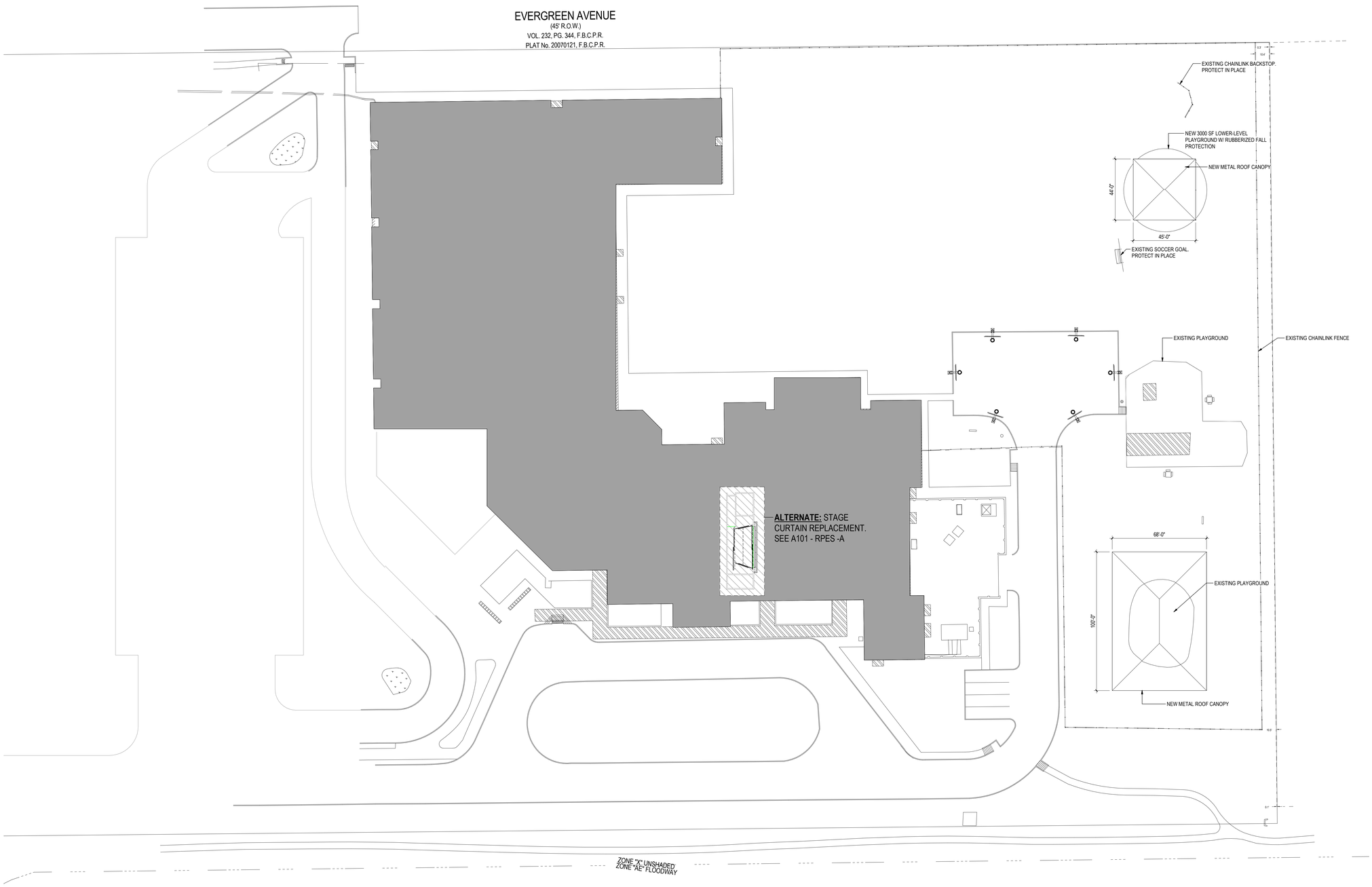
DRAWING LIST

NO.	DRAWING NAME
GENERAL	
G001 - RPES	PROJECT COVER SHEET & INDEX
ARCHITECTURAL SITE PLAN	
AS100 - RPES	ARCHITECTURAL SITE
CIVIL	
C100 - RPES	TOPOGRAPHIC SURVEY PLAT
C200 - RPES	DEMOLITION AND LAYOUT PLAN
C300 - RPES	UTILITY PLAN
C400 - RPES	GRADING PLAN
C500 -RPES	SWPPP
C600 - RPES	DETAILS
C601 - RPES	DETAILS
LANDSCAPE	
L100 - RPES	PLAYGROUND PLAN
L200 - RPES	PLAYGROUND ENLARGEMENT
L300 - RPES	IRRIGATION PLAN
L400 - RPES	IRRIGATION DETAILS
STRUCTURAL	
S101 - RPES	GENERAL STRUCTURAL CRITERIA
S102 - RPES	GENERAL STRUCTURAL CRITERIA
S201 - RPES	FOUNDATION PLAN - COMPOSITE
S301 - RPES	FOUNDATION, SCHEDULE & DETAILS
ARCHITECTURAL	
A001 - RPES	ABBV., MATERIAL LEGEND AND SYMBOLS
A101 - RPES - A	ENLARGED STAGE CURTAIN PLAN - ALTERNATE #4



A1 / AS100 / RPES

ARCHITECTURAL SITE PLAN

1" = 30'-0"

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND CONSTRUCTION			2025.09.24

File Name: N/A	Author	Designer	Checker	12/08/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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REGISTERED ARCHITECT DANIELLE DUNN 28298 STATE OF TEXAS

Client/Project Logo

2022 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

19101 CHIMNEY ROCK RD, FRESNO, TX 77545

Title

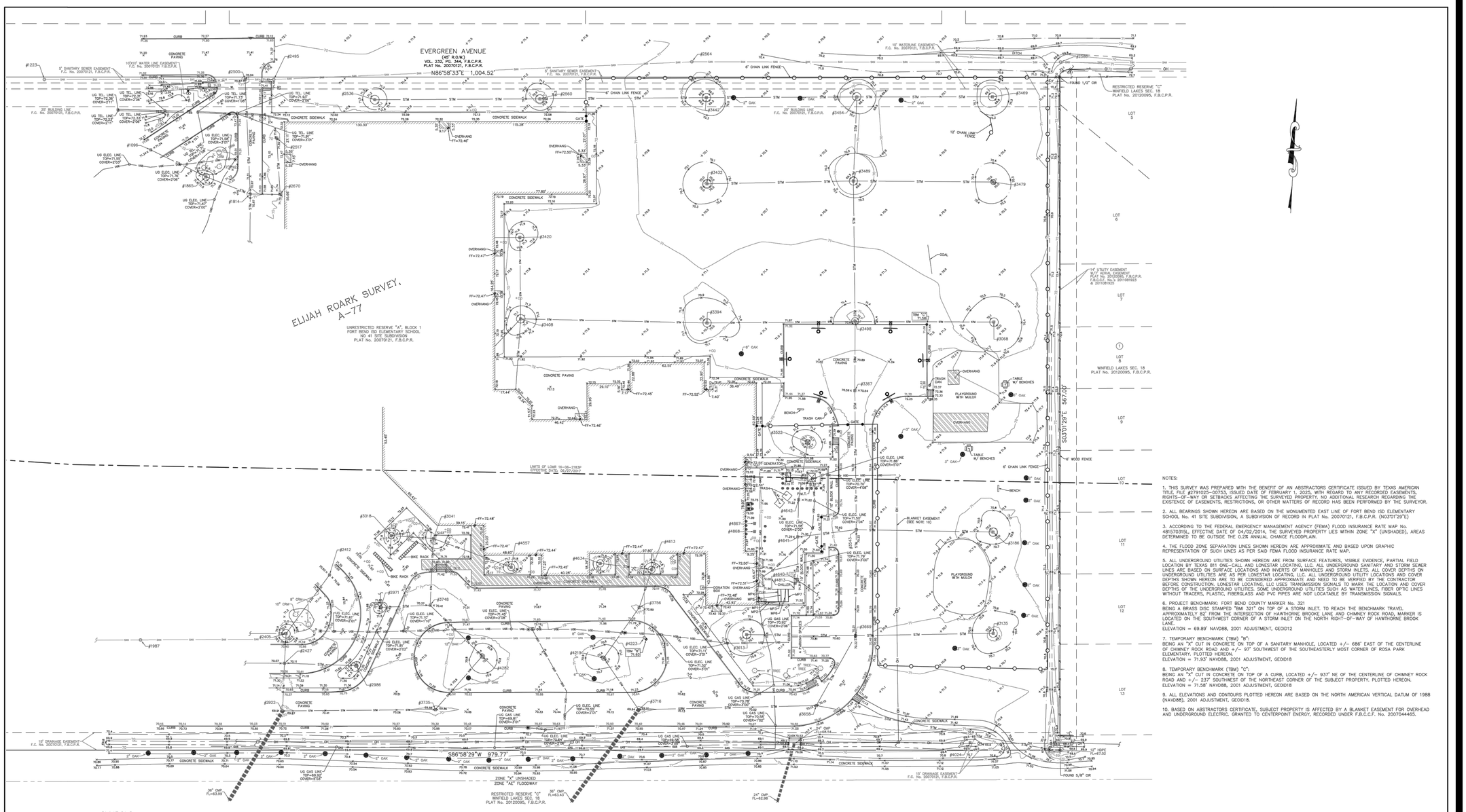
ARCHITECTURAL SITE PLAN

Project No.	Scale
214001246	1" = 30'-0"
Revision	Drawing No.

AS100 - RPES

<Pick location in Project Information>
YYYY.MM.DD 8:36:34 AM

ORIGINAL SHEET - ARCH E1



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1. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF AN ABSTRACTORS CERTIFICATE ISSUED BY TEXAS AMERICAN TITLE, FILE #2791025-00753, ISSUED DATE OF FEBRUARY 1, 2025, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS-OF-WAY OR SETBACKS AFFECTING THE SURVEYED PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.

2. ALL BEARINGS SHOWN HEREON ARE BASED ON THE MONUMENTED EAST LINE OF FORT BEND ISD ELEMENTARY SCHOOL No. 41 SITE SUBDIVISION, A SUBDIVISION OF RECORD IN PLAT No. 20070121, F.B.C.P.R. (N03°01'29"E)

3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48157C0315L, EFFECTIVE DATE OF 04/02/2014, THE SURVEYED PROPERTY LIES WITHIN ZONE "X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

4. THE FLOOD ZONE SEPARATION LINES SHOWN HEREON ARE APPROXIMATE AND BASED UPON GRAPHIC REPRESENTATION OF SUCH LINES AS PER SAID FEMA FLOOD INSURANCE RATE MAP.

5. ALL UNDERGROUND UTILITIES SHOWN HEREON ARE FROM SURFACE FEATURES, VISIBLE EVIDENCE, PARTIAL FIELD LOCATION BY TEXAS 811 ONE-CALL AND LONESTAR LOCATING, LLC. ALL UNDERGROUND SANITARY AND STORM SEWER LINES ARE BASED ON SURFACE LOCATIONS AND INVERTS OF MANHOLES AND STORM INLETS. ALL COVER DEPTHS ON UNDERGROUND UTILITIES ARE AS PER LONESTAR LOCATING, LLC. ALL UNDERGROUND UTILITY LOCATIONS AND COVER DEPTHS SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE AND NEED TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. LONESTAR LOCATING, LLC USES TRANSMISSION SIGNALS TO MARK THE LOCATION AND COVER DEPTHS OF THE UNDERGROUND UTILITIES. SOME UNDERGROUND UTILITIES SUCH AS WATER LINES, FIBER OPTIC LINES WITHOUT TRACERS, PLASTIC, FIBERGLASS AND PVC PIPES ARE NOT LOCATABLE BY TRANSMISSION SIGNALS.

6. PROJECT BENCHMARK: FORT BEND COUNTY MARKER No. 321
BEING A BRASS DISC STAMPED "BM 321" ON TOP OF A STORM INLET. TO REACH THE BENCHMARK TRAVEL APPROXIMATELY 82' FROM THE INTERSECTION OF HAWTHORNE BROOKE LANE AND CHIMNEY ROCK ROAD, MARKER IS LOCATED ON THE SOUTHWEST CORNER OF A STORM INLET ON THE NORTH RIGHT-OF-WAY OF HAWTHORNE BROOK LANE.
ELEVATION = 69.89' NAVD88, 2001 ADJUSTMENT, GEOID12

7. TEMPORARY BENCHMARK (TBM) "B":
BEING AN "X" CUT IN CONCRETE ON TOP OF A SANITARY MANHOLE, LOCATED +/- 686' EAST OF THE CENTERLINE OF CHIMNEY ROCK ROAD AND +/- 97' SOUTHWEST OF THE SOUTHEASTERLY MOST CORNER OF ROSA PARK ELEMENTARY. PLOTTED HEREON.
ELEVATION = 71.93' NAVD88, 2001 ADJUSTMENT, GEOID18

8. TEMPORARY BENCHMARK (TBM) "C":
BEING AN "X" CUT IN CONCRETE ON TOP OF A CURB, LOCATED +/- 937' NE OF THE CENTERLINE OF CHIMNEY ROCK ROAD AND +/- 237' SOUTHWEST OF THE NORTHEAST CORNER OF THE SUBJECT PROPERTY. PLOTTED HEREON.
ELEVATION = 71.58' NAVD88, 2001 ADJUSTMENT, GEOID18

9. ALL ELEVATIONS AND CONTOURS PLOTTED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), 2001 ADJUSTMENT, GEOID18.

10. BASED ON ABSTRACTORS CERTIFICATE, SUBJECT PROPERTY IS AFFECTED BY A BLANKET EASEMENT FOR OVERHEAD AND UNDERGROUND ELECTRIC, GRANTED TO CENTERPOINT ENERGY, RECORDED UNDER F.B.C.C.F. No. 2007044465.

SYMBOLS

- = FOUND 5/8-INCH IRON ROD W/CAP STAMPED "FRONTIER" (UNLESS OTHERWISE NOTED)
- = SET 5/8-INCH IRON ROD W/MILLER SURVEY CAP (UNLESS OTHERWISE NOTED)
- = ANGLE POINT
- = A.C. PAD
- = BLOW OFF VALVE
- = BOLLARD
- = CABLE BOX
- = CABLE MARKER
- = CLEAN-OUT
- = CURB INLET
- = E-INLET
- = ELECTRIC BOX
- = ELECTRIC MANHOLE
- = FIRE DEPARTMENT CONNECTION
- = FLAG POLE
- = FLUSH VALVE (FIRE HYDRANT)
- = GAS METER
- = GAS VALVE
- = GRATE INLET
- = GREASE TRAP
- = GUY ANCHOR
- = HANDICAPPED PARKING SPACE
- = IRRIGATION CONTROL VALVE
- = JUNCTION BOX
- = LIGHT STANDARD
- = WATER MANHOLE
- = PIPELINE MARKER
- = POWER POLE
- = POWER POLE W/LIGHT
- = SAMPLE WELL
- = SANITARY MANHOLE
- = SERVICE POLE
- = SIGN
- = SPRINKLER HEAD
- = STORM MANHOLE
- = TREE
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL CONTROL BOX
- = TRAFFIC SIGNAL POLE
- = WATER METER
- = WATER VALVE

LINE TYPES

- = BARBED-WIRE FENCE
- = WOOD FENCE
- = CHAIN-LINK FENCE
- = WROUGHT IRON FENCE
- = OVERHEAD ELECTRIC LINE
- = UNDERGROUND ELECTRIC LINE
- = UNDERGROUND GAS LINE
- = UNDERGROUND FIBER OPTIC LINE
- = UNDERGROUND TELEPHONE LINE
- = UNDERGROUND STORM LINE
- = STORM LINE CULVERT
- = UNDERGROUND SANITARY LINE
- = UNDERGROUND WATER LINE
- = UNDERGROUND PIPELINE
- = CURB AND GUTTER LINE
- = EDGE OF CONCRETE
- = EDGE OF ASPHALT
- = EDGE OF GRAVEL
- = HIGH BANK LINE
- = GRADE BREAK LINE
- = TOE SLOPE LINE
- = TREE LINE

MP TABLE

MP1=12" PIPE	
MP2=12" PIPE	
MP3=6" PIPE	
MP4=8" PIPE	
MP5=8" PIPE	
MP6=8" PIPE	
MP7=8" PIPE	

LEGEND

AC.	= ACRE
A.E.	= AERIAL EASEMENT
B.L.	= BUILDING LINE
CHB	= CHORD BEARING
CHD	= CHORD LENGTH
CRM	= CREPE MYRTLES
D.E.	= DRAINAGE EASEMENT
ESMT.	= EASEMENT
F.B.C.C.F.	= FORT BEND COUNTY CLERK'S FILE
F.B.C.D.D.	= FORT BEND COUNTY DRAINAGE DISTRICT
F.B.C.D.R.	= FORT BEND COUNTY DEED RECORDS
F.B.C.P.R.	= FORT BEND COUNTY PLAT RECORDS
L.	= LENGTH
L.E.	= LANDSCAPE EASEMENT
LTD.	= LIMITED
No.	= NUMBER
NR	= NON-RADIAL
P.M.T.	= PAD MOUNTED TRANSFORMER
P.U.E.	= PUBLIC UTILITY EASEMENT
PVT.	= PRIVATE
S.F.	= SQUARE FEET
SAN.S.E.	= SANITARY SEWER EASEMENT
STM.S.E.	= STORM SEWER EASEMENT
U.E.	= UTILITY EASEMENT
W.L.E.	= WATER LINE EASEMENT
P.O.B.	= POINT OF BEGINNING
I.R.	= IRON ROD
I.P.	= IRON PIPE
H.L.&P.	= HOUSTON LIGHTING AND POWER

INVERT TABLE

#1096
GRATE INLET
TOP=71.18'
10"HDPE(SE)FL=67.31'

#1223
SANITARY MANHOLE
RIM=72.32'
8"PVC(E)FL=55.69'
8"PVC(W)FL=55.67'

#1814
GRATE INLET
TOP=70.92'
10"HDPE(N)FL=67.90'
12"HDPE(W)FL=65.78'
12"HDPE(E)FL=68.13'
15"HDPE(S)FL=66.72'

#1865
GRATE INLET
TOP=71.32'
10"HDPE(NW)FL=67.22'
12"HDPE(SE)FL=66.90'

#1987
SANITARY MANHOLE
RIM=71.17'
8"PVC(E)FL=62.27'
10"PVC(W)FL=62.21'

#2405
GRATE INLET
TOP=70.52'
10"HDPE(NE)FL=67.06'
12"HDPE(S)FL=67.09'
10"HDPE(W)FL=67.09'

#2412
GRATE INLET
TOP=70.42'
10"HDPE(SW)FL=68.00'

#2427
GRATE INLET
TOP=69.99'
12"HDPE(NW)FL=65.78'
10"HDPE(E)FL=66.04'
30"HDPE(S)FL=64.24'
24"HDPE(W)FL=64.32'

#2495
SANITARY MANHOLE
RIM=72.03'
8"PVC(E)FL=56.98'
8"PVC(W)FL=56.95'

#2500
GRATE INLET
TOP=70.94'
10"HDPE(S)FL=68.56'

#2517
GRATE INLET
TOP=71.92'
10"HDPE(S)FL=69.35'

#2536
GRATE INLET
TOP=71.14'
10"HDPE(E)FL=67.47'

#2560
GRATE INLET
TOP=70.97'
12"HDPE(E)FL=67.03'
10"HDPE(W)FL=67.06'

#2564
GRATE INLET
TOP=70.97'
12"HDPE(E)FL=67.03'
10"HDPE(W)FL=67.06'

#2564
SANITARY MANHOLE
RIM=70.80'
8"PVC(E)FL=55.95'
8"PVC(W)FL=57.93'

#2586
SANITARY MANHOLE
RIM=71.23'
8"PVC(E)FL=59.30'
8"PVC(W)FL=59.20'

#2670
GRATE INLET
TOP=71.80'
10"HDPE(E)FL=68.84'
12"HDPE(W)FL=68.79'

#2922
GRATE INLET
TOP=69.79'
30"HDPE(N)FL=64.19'
15"HDPE(E)FL=65.82'
36"CMP(SW)FL=63.80'
24"HDPE(S)FL=65.59'

#2971
GRATE INLET
TOP=71.30'
6"PVC(N)FL=68.40'
10"HDPE(E)FL=68.38'

#2986
GRATE INLET
TOP=71.20'
10"HDPE(W)FL=68.40'

#3018
GRATE INLET
TOP=71.19'
4"PVC(N)FL=68.92'
8"HDPE(E)FL=68.88'
6"PVC(E)FL=68.88'

#3041
GRATE INLET
TOP=71.12'
12"HDPE(S)FL=68.45'
4"PVC(S)FL=69.67'
10"HDPE(SE)FL=68.14'
6"PVC(SE)FL=68.34'
8"PVC(W)FL=68.51'

#3068
GRATE INLET
TOP=69.94'
4"PVC(S)FL=68.09'
12"HDPE(W)FL=67.98'

#3135
GRATE INLET
TOP=69.85'
12"HDPE(W)FL=66.32'

#3186
GRATE INLET
TOP=69.98'
12"HDPE(BOTTOM)FL=66.62'

#3367
GRATE INLET
TOP=70.60'
24"HDPE(N)FL=64.88'
24"HDPE(S)FL=64.85'

#3394
GRATE INLET
TOP=70.52'
10"HDPE(E)FL=67.61'
8"PVC(S)FL=67.73'
12"HDPE(W)FL=67.63'

#3408
GRATE INLET
TOP=71.01'
10"HDPE(N)FL=68.28'
10"HDPE(E)FL=68.21'
8"HDPE(S)FL=68.43'
8"PVC(SW)FL=68.34'

#3420
GRATE INLET
TOP=71.52'
10"HDPE(S)FL=68.62'
8" PVC(SW)FL=68.67'

#3432
GRATE INLET
TOP=69.96'
12"HDPE(E)FL=67.11'

#3442
GRATE INLET
TOP=69.55'
12"HDPE(E)FL=66.67'
12"HDPE(W)FL=66.67'

#3454
GRATE INLET
TOP=69.50'
10"HDPE(E)FL=66.30'
15"HDPE(S)FL=65.96'
12"HDPE(W)FL=66.38'

#3469
GRATE INLET
TOP=69.55'
12"HDPE(N)FL=65.58'
12"HDPE(E)FL=66.30'
12"HDPE(W)FL=65.20'
24"HDPE(S)FL=65.20'

#3489
GRATE INLET
TOP=69.68'
12"HDPE(N)FL=65.34'
30"HDPE(S)FL=63.85'
36"CMP(SW)FL=63.43'

#3498
GRATE INLET
TOP=70.68'
18"HDPE(N)FL=65.58'
12"HDPE(E)FL=66.30'
24"HDPE(S)FL=65.20'
12"HDPE(W)FL=66.34'

#3522
GRATE INLET
TOP=70.74'
10"HDPE(S)FL=68.79'

#3543
GRATE INLET
TOP=70.04'
24"HDPE(N)FL=64.82'
12"HDPE(E)FL=65.11'
24"HDPE(S)FL=64.80'
12"HDPE(W)FL=65.24'

#3613
GRATE INLET
TOP=70.14'
10"HDPE(E)FL=67.40'

#3658
GRATE INLET
TOP=70.10'
24"HDPE(NE)FL=64.58'
12"HDPE(E)FL=64.76'
30"HDPE(W)FL=64.26'

#3669
GRATE INLET
TOP=70.15'
24"HDPE(N)FL=64.77'
12"HDPE(E)FL=65.20'
24"HDPE(SW)FL=64.72'
10"HDPE(W)FL=65.79'

#3716
GRATE INLET
TOP=69.88'
12"HDPE(NW)FL=65.61'
10"HDPE(E)FL=68.79'

#3735
GRATE INLET
TOP=69.88'
15"HDPE(NE)FL=66.46'
15"HDPE(W)FL=66.45'

#3748
GRATE INLET
TOP=70.39'
12"HDPE(N)FL=68.06'
12"HDPE(SE)FL=67.81'
10"HDPE(W)FL=68.04'

#3756
GRATE INLET
TOP=70.87'
12"HDPE(N)FL=67.42'
12"HDPE(SW)FL=67.42'

#4219
GRATE INLET
TOP=70.37'
12"HDPE(NE)FL=66.73'
12"HDPE(SE)FL=66.70'

#4024
GRATE INLET
TOP=69.48'
12"HDPE(E)FL=66.61'
12"HDPE(W)FL=66.82'

#4223
SANITARY MANHOLE
RIM=71.99'
6"PVC(N)FL=65.33'
8"PVC(W)FL=65.33'

#4282
GRATE INLET
TOP=70.38'
12"HDPE(NW)FL=67.52'
12"HDPE(SE)FL=67.52'

#4557
GRATE INLET
TOP=71.31'
10"HDPE(NW)FL=69.05'
4"PVC(NW)FL=69.20'
6"PVC(W)FL=69.87'

#4613
GRATE INLET
TOP=71.40'
8"PVC(E)FL=69.32'
12"HDPE(S)FL=67.56'
10"HDPE(W)FL=67.65'
6"PVC(W)FL=69.30'

#4634
GRATE INLET
TOP=71.40'
10"HDPE(E)FL=69.85'

#4640
GRATE INLET
TOP=71.27'
10"HDPE(N)FL=67.54'
10"HDPE(SE)FL=67.46'

#4641
GRATE INLET
TOP=71.27'
10"HDPE(N)FL=67.34'
12"HDPE(E)FL=66.82'
10"HDPE(S)FL=67.22'
UNABLE TO VERIFY
PIPE SIZE & MATERIAL(SW)FL=67.20'

#4642
GRATE INLET
TOP=70.74'
10"HDPE(N)FL=68.31'
10"HDPE(S)FL=68.27'

#4813
GRATE INLET
TOP=71.40'
15"HDPE(N)FL=66.87'
15"HDPE(E)FL=68.01'
15"HDPE(W)FL=66.85'

#4867
GRATE INLET
TOP=71.81'
UNABLE TO OPEN
INLET TO VERIFY FL

#4868
GRATE INLET
TOP=71.77'
UNABLE TO OPEN
INLET TO VERIFY FL

FBISD ROSA PARKS ELEMENTARY SCHOOL
19101 CHIMNEY ROCK RD
FRESNO, TX 77545

REVISED:

PARTIAL TOPOGRAPHIC SURVEY PLAT F.B.I.S.D. ROSA PARKS ELEMENTARY SCHOOL

LOCATED IN THE
ELIJAH ROARK SURVEY, A-77
FORT BEND COUNTY, TEXAS

MillerSurvey
DCCM

Miller Survey | Firm Reg. No. 10047100
1760 W. Sam Houston Pkwy N.
Houston, TX 77043
713.413.1900 | millersurvey.com

JOB No.: 002985-DS	SCALE: 1" = 30'	DATE: 03/07/2025	FIELD BOOK: 25-014
DWG. No.: 002985-DS.DWG	DRAWN BY: NPR/DAE	CHECKED BY: REH	M&B No.: N/A

Stantec

STANTEC ARCHITECTURE INC.
910 LOUISIANA STREET, SUITE 2600
HOUSTON, TX 77002-4916
Tel: (713) 548.5700 • www.stantec.com

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Consultant

Dally + ASSOCIATES
9800 Richmond Avenue, Suite 460
Houston, Texas 77042 713 337 8881
TEXAS REGISTERED ENGINEERING FIRM F-3426
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	KB	MN	KB	2025.01.09
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROAD, FRESNO, TX 77545

Title
TOPOGRAPHIC SURVEY PLAT (FOR REFERENCE ONLY)

Project No.	Scale
C24-052-00	
Revision	Drawing No.
	C100 - RPES

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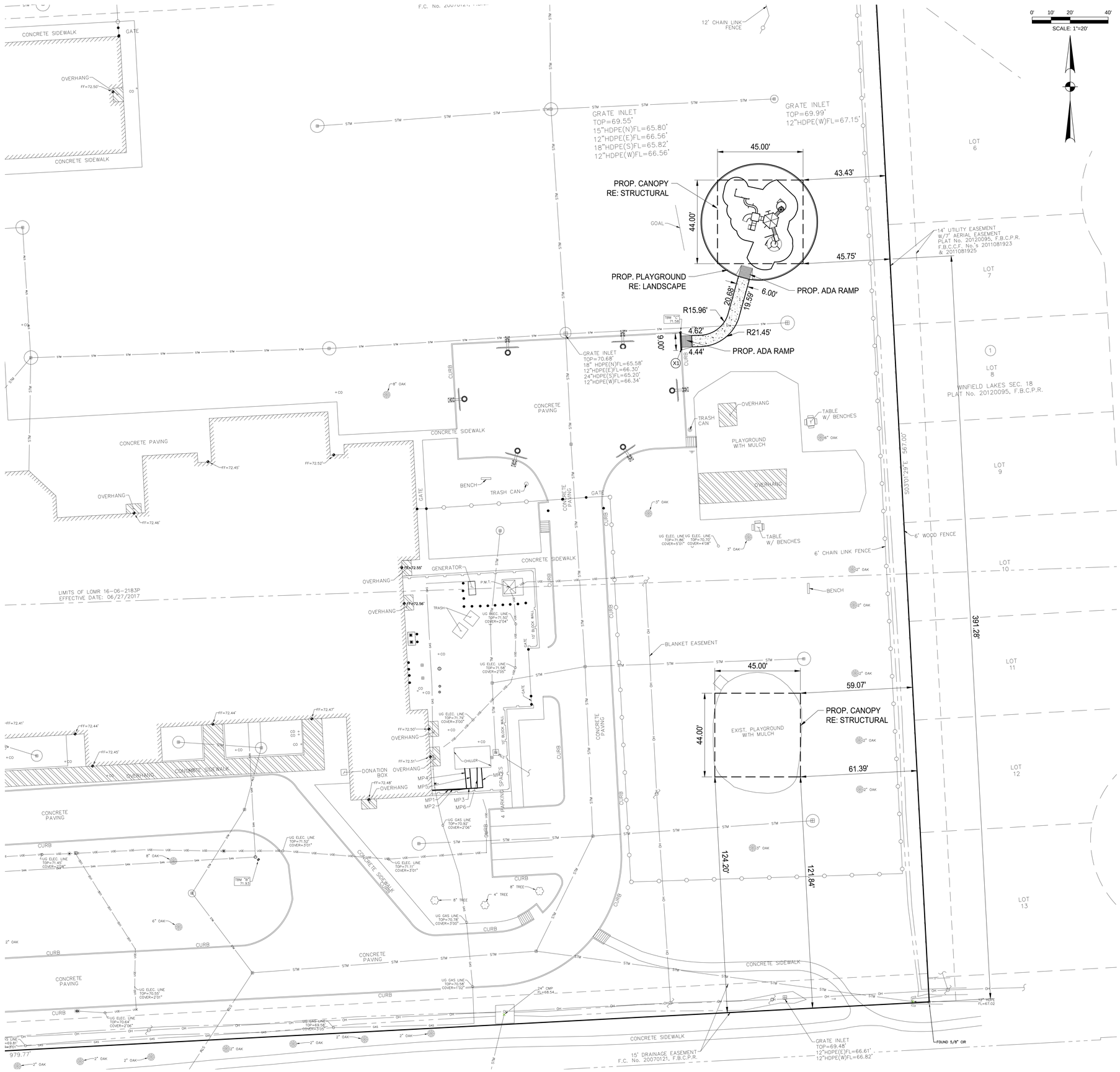
3/21/2025 11:54:33 PM
ORIGINAL SHEET - ARCH E1



NOTES:

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS. PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.

SAWCUT NOTES:

1. SAWCUT 2" MINIMUM DEPTH, EXPOSE AND CLEAN EXISTING REINFORCING STEEL.
2. IF NO REINFORCING STEEL EXISTS, #5 HORIZONTAL DOWELS, 24" LONG, GRADE 60, SHALL BE DRILLED AND EMBEDDED 12" INTO THE CENTER OF EXISTING CONCRETE WITH EPOXY.
3. ALL REINFORCING STEEL SHALL BE PLACED 3" CLEAR (2" ABSOLUTE MINIMUM) FROM EDGE OF CONCRETE.

GENERAL DEMOLITION KEY NOTES:

(X1) EXISTING CONCRETE CURB TO BE REMOVED.

Stantec

STANTEC ARCHITECTURE INC.
910 LOUISIANA STREET, SUITE 2600
HOUSTON, TX 77002-4916
Tel: (713) 548.5700 • www.stantec.com

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Consultant

Dally + ASSOCIATES
STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
Houston, Texas 77042 | 713 337 8881
TEXAS REGISTERED ENGINEERING FIRM F-3429
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	KB Dwn.	MN Dsgn.	KB Chkd. 2025.01.09 YYYY.MM.DD

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

2024 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

ROSA PARKS ELEMENTARY SCHOOL

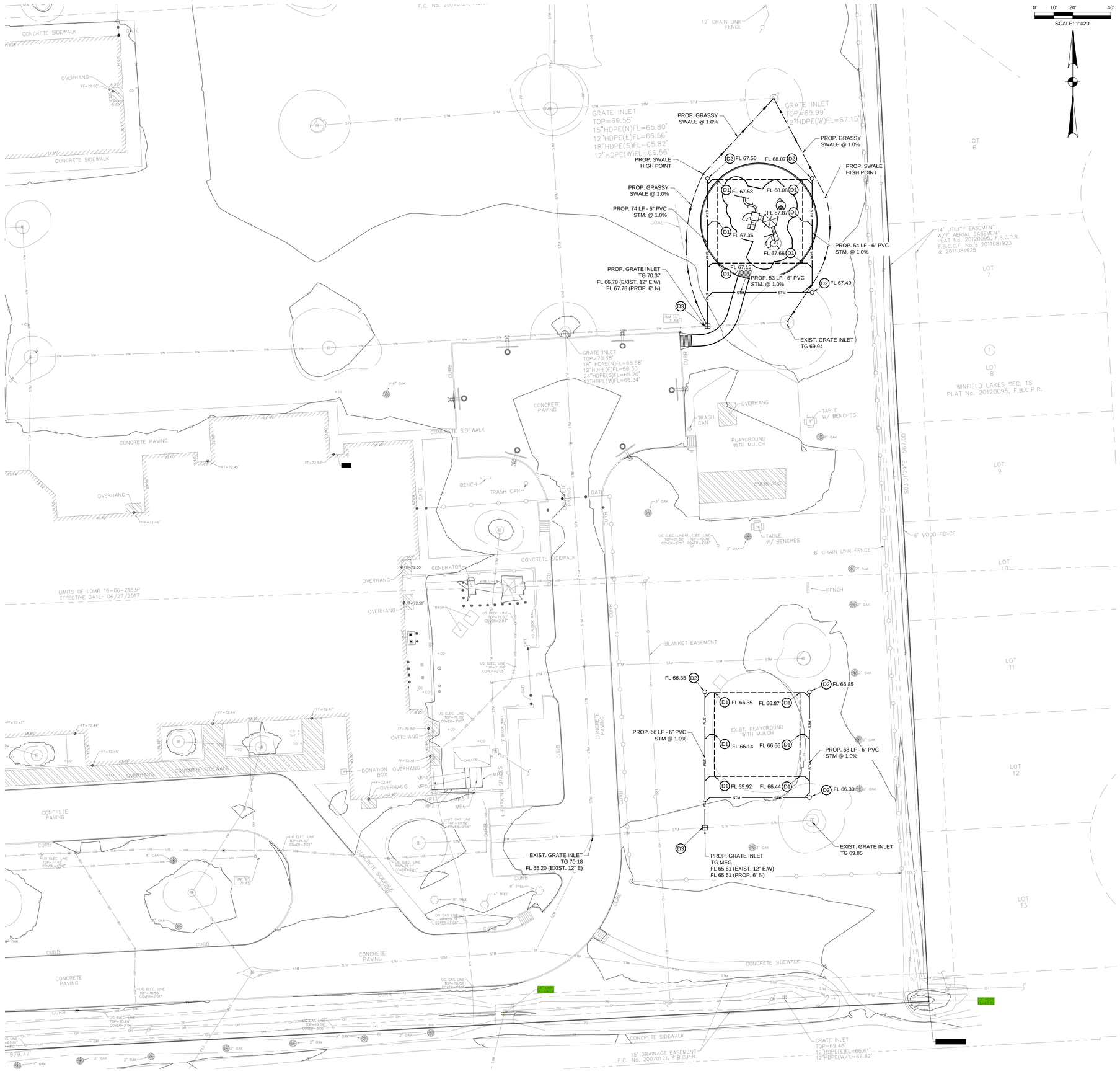
19101 CHIMNEY ROAD, FRESNO, TX 77545

Title
DEMOLITION AND LAYOUT PLAN

Project No. C24-052-00 | Scale
Revision | Drawing No.

C200 - RPES

ORIGINAL SHEET - ARCH E1



0' 10' 20' 40'
SCALE: 1"=20'

LEGEND

PROPOSED BUILDING LIMITS

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
13. CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, CABLE TELEVISION AND GAS.
14. DOMESTIC WATER LINES LESS THAN 4" IN DIAMETER SHALL BE SCH 40 PVC AND HAVE A MINIMUM COVER OF 2 FEET. DOMESTIC WATER LINES 4" DIAMETER AND LARGER SHALL BE AWWA C-900 DR 18 PVC AND HAVE A MINIMUM COVER OF 4 FEET.
15. FIRE WATER SERVICE SHALL BE C-900 SELF-EXTINGUISHING PVC PIPE THAT BEARS UNDERWRITERS' LABORATORIES MARK OF APPROVAL AND IS ACCEPTABLE WITHOUT PENALTY TO TEXAS STATE FIRE INSURANCE COMMITTEE AND HAVE A MINIMUM COVER OF 4 FEET.
16. SANITARY SEWER PIPE SIZES 6 INCHES AND SMALLER SHALL BE PVC SCHEDULE 40, AND PIPE SIZES 8 INCHES OR LARGER MAY BE SDR 26.
17. ALL STORM AND SANITARY SEWER CLEANOUTS SHALL HAVE TRAFFIC-RATED LIDS. CLEANOUTS LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE 18" DIAMETER X 6" THICK REINFORCED CONCRETE PAD WITH TOP OF PAD MATCHING FINISHED GRADE.

DRAINAGE KEY NOTES:

(D1) PROPOSED 6" PVC ROOF DRAIN @ 1.0%.

(D2) PROPOSED STORM SEWER CLEANOUT. CLEANOUTS IN PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.

(D3) CONSTRUCT PROPOSED GRATE INLET OVER EXISTING 12" STORM SEWER. MATCH EXISTING FLOW LINE. SEAL WALL PENETRATIONS USING APPROVED AHJ MANUFACTURED CONNECTOR OR WATER STOP AND NON-SHRINK GROUT. FIELD VERIFY EXISTING LOCATION, SIZE AND FLOWLINE.

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D + A PROJECT No. C24-052-00

Notes

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	KB	MN	KB	2025.01.09

Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
09/24/2025

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

ROSA PARKS ELEMENTARY SCHOOL

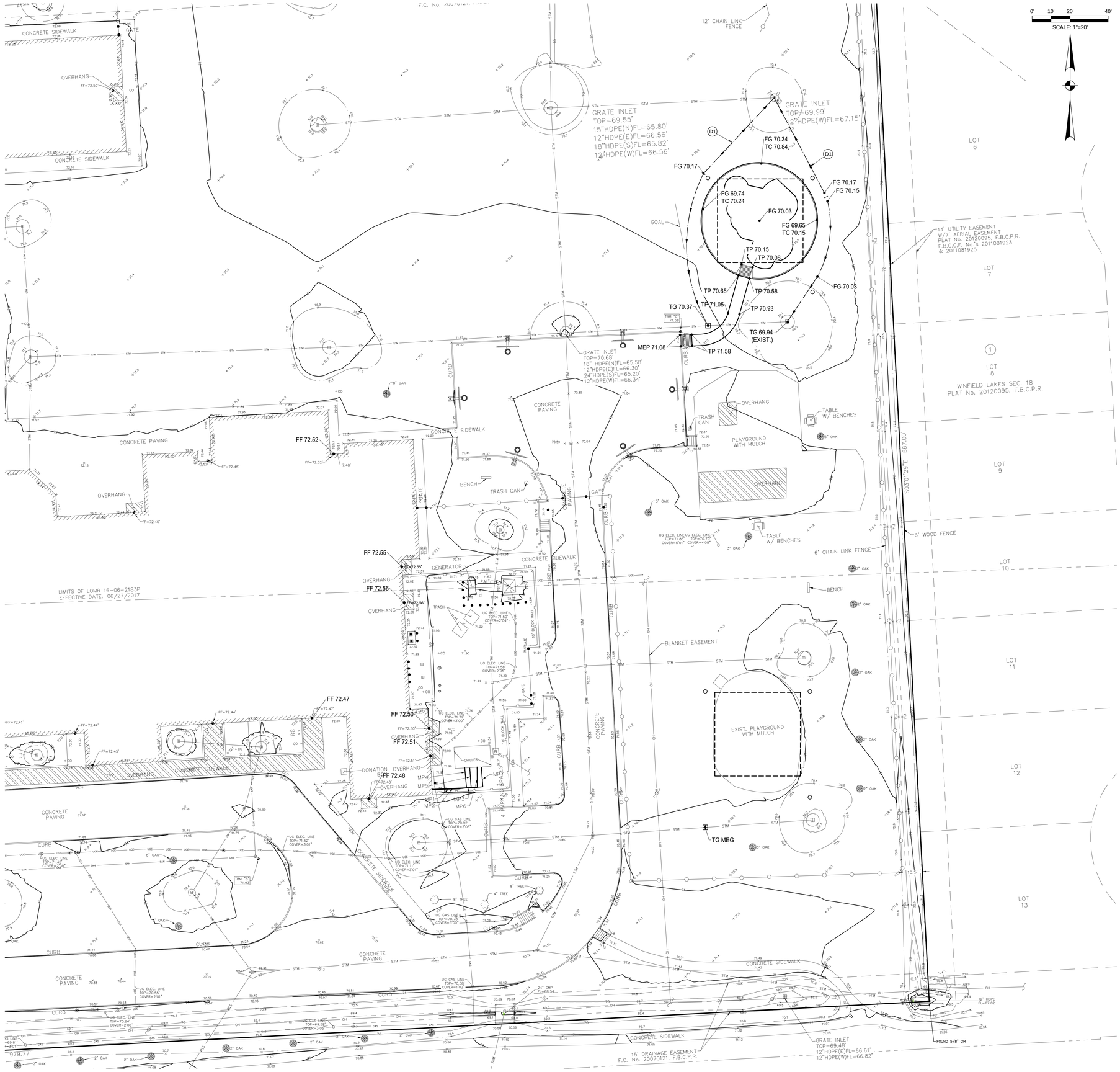
19101 CHIMNEY ROAD, FRESNO, TX 77545

Title
UTILITY PLAN

Project No. C24-052-00
Scale
Revision
Drawing No.

C300 - RPES

<Pcs location in Project Information>
12/13/2025 1:53:43 PM
ORIGINAL SHEET - ARCH E1



LEGEND	
EL	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FL	FLOW LINE
HP	HIGH POINT
MEG	MATCH EXISTING GRADE
MEP	MATCH EXISTING PAVEMENT
MEC	MATCH EXISTING CURB
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
+45	Existing Grade
TP XX.XX	PROPOSED GRADE
	NOT IN SCOPE
	GRADE TO DRAIN

GENERAL CONSTRUCTION NOTES :

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CAUTION!!! THERE ARE OVERHEAD POWER LINES IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
6. SIDEWALKS SHALL HAVE A RUN SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED SHALL BE SODDED UPON COMPLETION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.

GRADING KEY NOTES:

(D1) PROPOSED GRASSY SWALE @ 0.5%.

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Permit/Seal

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
09/24/2025

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BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROAD, FRESNO, TX 77545

Title

GRADING PLAN

Project No.	Scale
C24-052-00	
Revision	Drawing No.

C400 - RPES

<Pcs location in Project Information>
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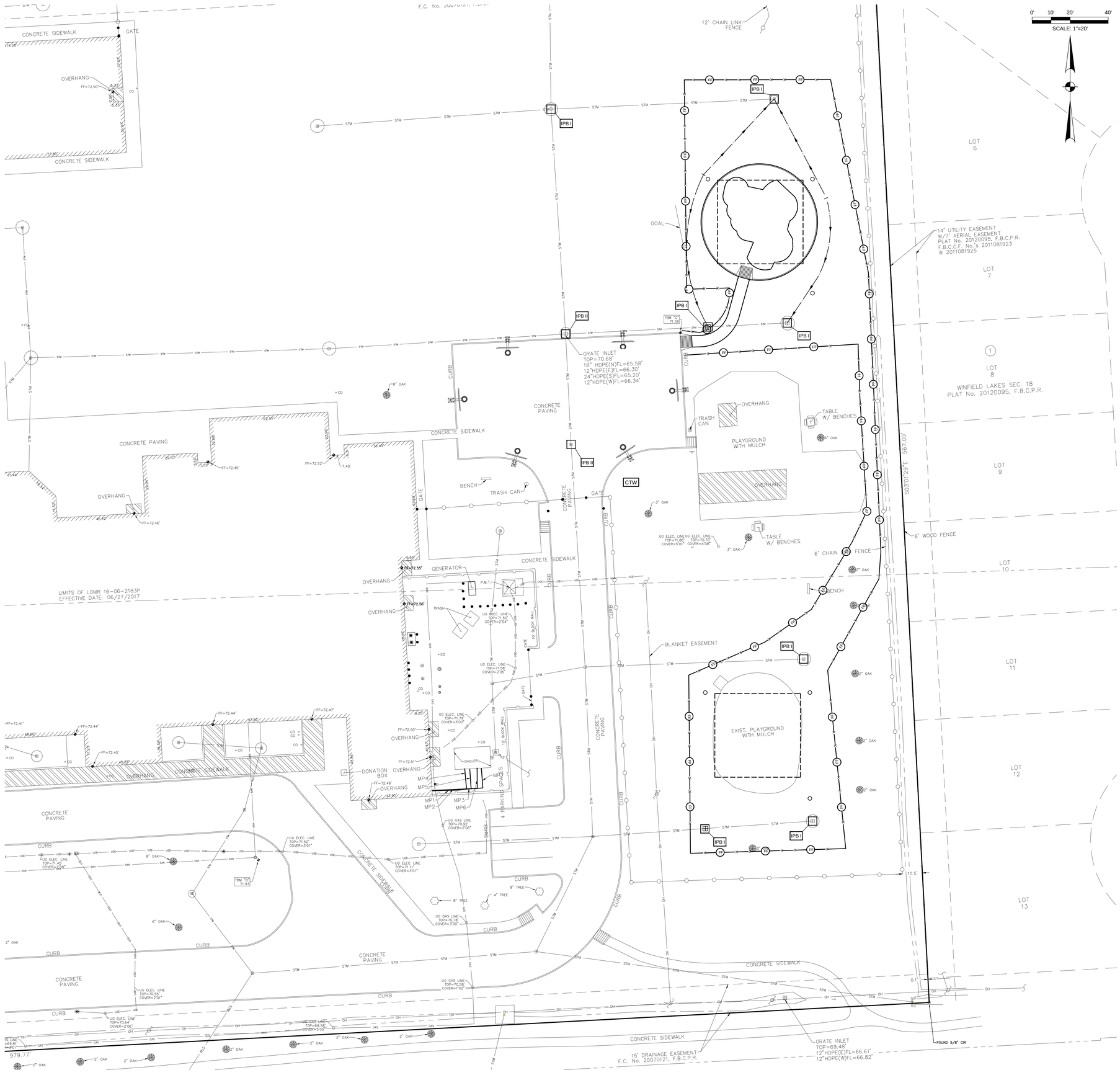
ORIGINAL SHEET - ARCH E1



LEGEND

IPB I	INLET PROTECTION BARRIER (STAGE 1)
IPB II	INLET PROTECTION BARRIER (STAGE 2)
FF	FILTER FABRIC FENCE
SC	STABILIZED CONSTRUCTION ACCESS
CTW	CONCRETE TRUCK WASHOUT

GENERAL CONSTRUCTION NOTES

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
4. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE STAGING AND TRAFFIC CONTROL PLANS WITH OWNER.
6. ALL DISTURBED AREAS SHALL BE SODDED UPON COMPLETION IF NOT TO BE PAVED OR LANDSCAPED.
7. CONTRACTOR SHALL UTILIZE TEMPORARY EROSION CONTROL MAT OR EQUAL DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ENSURING WATER QUALITY CONTROLS MEET TCEQ STANDARDS.

SWPPP CONSTRUCTION NOTES :

1. ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.
2. APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.
3. ALL EROSION CONTROL MEASURES SHALL BE CLEANED AFTER EVERY RAIN.
4. CONTRACTOR SHALL ENTER AND EXIT SITE FROM EXISTING DRIVEWAY.

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D + A PROJECT No. C24-052-00

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Permit/Seal

STATE OF TEXAS
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90904
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09/24/2025

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BOND 2024
FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROAD, FRESNO, TX 77545

Title
SWPPP

Project No. C24-052-00 | Scale
Revision | Drawing No.

C500 - RPES

ORIGINAL SHEET - ARCH E1

GENERAL NOTES

CURB RAMPS

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5' x 5' passing areas at intervals not to exceed 200' are required.
5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%.
6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
16. Provide a smooth transition where the curb ramps connect to the street.
17. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
18. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.

DETECTABLE WARNING MATERIAL

19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS-860 and be on the Approved Material Producer List. Install products in accordance with manufacturer's specifications.
21. Detectable warning surfaces must be firm, stable and slip resistant.
22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

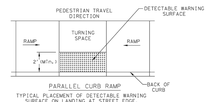
DETECTABLE WARNING PAVERS (IF USED)

25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

SIDEWALKS

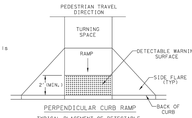
27. Provide clear ground space at operable parts, including pedestrian push buttons. Clear ground space shall be placed within unobstructed reach range specified in PROWAG section R406.
28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
29. Street grades and cross slopes shall be as shown elsewhere in the plans.
30. Changes in level greater than 1/4 inch are not permitted.
31. The least possible grade should be used to maximize accessibility. The running slope of walks, ramps, and curb ramps that are part of the 1) accessible route or 2) on the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
34. Sidewalk details are shown elsewhere in the plans.

DETECTABLE WARNING SURFACE DETAILS



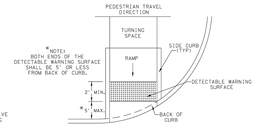
PARALLEL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.



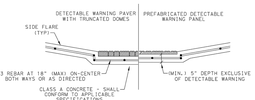
PERPENDICULAR CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.



DIRECTIONAL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.



SECTION VIEW DETAIL
CURB RAMP AT DETECTIBLE WARNINGS

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-22	RJS

FORT BEND COUNTY
ENGINEERING DEPARTMENT

PROJECT TITLE:	
DRAWN BY: INT	FBCED STANDARD
CK'D BY: INT	SHEET DESCRIPTION: PED-18 RAMP DETAILS
SCALE: 1" = 1'	15
DATE: 2-1-22	APPROVED BY: SHEET 2 OF 4
	SHEET NO. /

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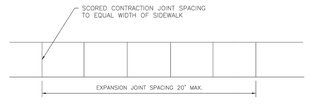
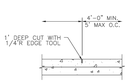
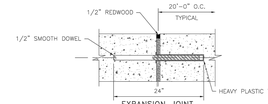


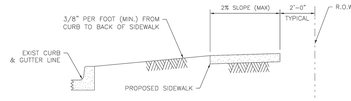
SIDEWALK JOINT DETAILS

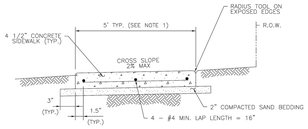


CONTRACTION JOINT SEAL



EXPANSION JOINT





SIDEWALK CROSS SECTION

NOTES:

1. TYPICAL SIDEWALK WIDTH IS 5'. SIDEWALKS OF 4' WIDTH ARE ALLOWED IN FRONT OF SINGLE FAMILY HOMES IF ALL DRIVEWAYS PROVIDE A 5' AREA FOR PASSING. SIDEWALKS OF 4' WITH 5' X 5' PASSING ZONES MUST BE SPECIFICALLY APPROVED BY FORT BEND COUNTY
2. THE MAXIMUM WIDTH BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 20'-0"
3. EXPANSION JOINT IS TO BE 1/2" THICK CLEAR HEART REDWOOD DOWELS
4. SCORED CONTRACTION JOINTS SHALL BE EVERY 5' OR EQUAL TO SIDEWALK WIDTH
5. ALL EARTHEN AREAS ARE TO BE SODDED UNLESS SHOWN OTHERWISE ON DRAWINGS.
6. SIDEWALKS ARE TO BE REINFORCED CONCRETE (3500 PSI) WITH #3 BARS, 18 INCHES C-C.
7. USE RADIUS TOOL ON ALL EXPOSED EDGES.
8. MEMBRANE CURING COMPOUND IS REQUIRED AS DESCRIBED IN ITEM 526 IN THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION
9. SIDEWALK EXPANSION JOINTS SHALL CONFORM TO STREET EXPANSION JOINT STANDARDS

NOTE:

BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATTER, MEETING THE UNIFIED SOILS CLASSIFICATION SYSTEM GROUP SW CRITERIA W/ A PLASTICITY INDEX OF LESS THAN 10, AND NO MORE THAN 12% OF MATERIAL CAN PASS THE NO. 200 SIEVE.

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-22	RJS

FORT BEND COUNTY
ENGINEERING DEPARTMENT

PROJECT TITLE:	
DRAWN BY: INT	FBCED STANDARD
CK'D BY: INT	SHEET DESCRIPTION: SIDEWALK DETAILS
SCALE: AS NOTED	13
DATE: 2-1-22	APPROVED BY: SHEET NO. /

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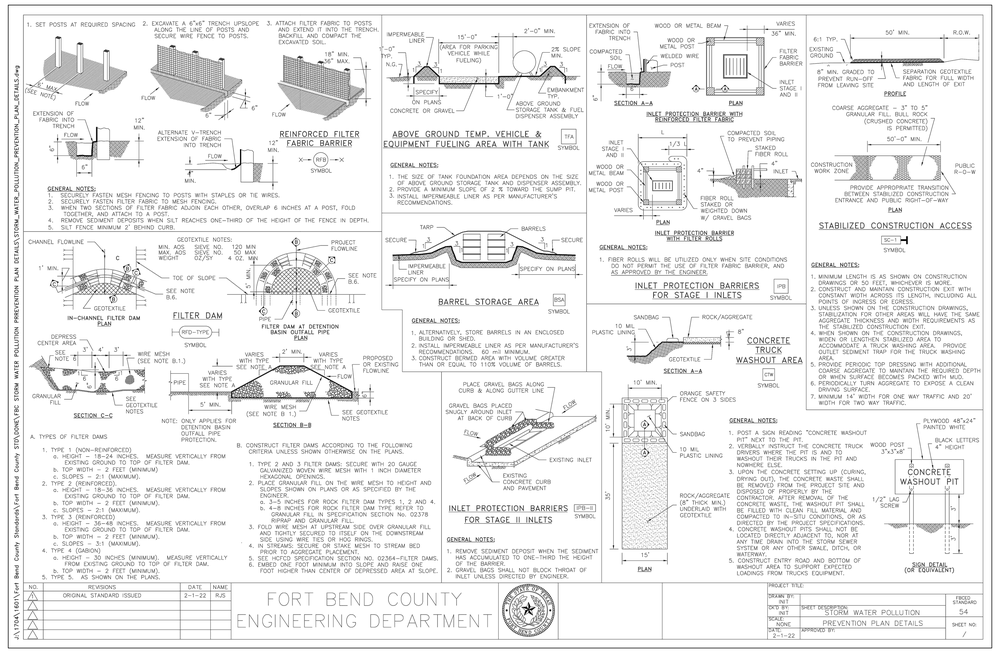
1. SET POSTS AT REQUIRED SPACING
2. EXCAVATE A 6"x6" TRENCH UPSLOPE ALONG THE LINE OF POSTS AND SECURE WIRE FENCE TO POSTS.
3. ATTACH FILTER FABRIC TO POSTS AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.
36" MAX. SEE NOTE 4
FLOW
18" MIN. 36" MAX.
6"
EXTENSION OF FABRIC INTO TRENCH
12" MIN.
ALTERNATE V-TRENCH EXTENSION OF FABRIC INTO TRENCH
MIN.
REINFORCED FILTER FABRIC BARRIER
SYMBOL
GENERAL NOTES:
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.
5. SILT FENCE MINIMUM 2' BEHIND CURB.
IMPERMEABLE LINER
15'-0"
2'-0" MIN.
1'-0" TYP. N.G.
AREA FOR PARKING VEHICLE WHILE FUELING)
2% SLOPE MIN.
SPECIFY ON PLANS
1'-0"
EMBANKMENT TYP.
CONCRETE OR GRAVEL
ABOVE GROUND STORAGE TANK & FUEL DISPENSER ASSEMBLY
ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK
TFA SYMBOL
GENERAL NOTES:
1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.
EXTENSION OF FABRIC INTO TRENCH
WOOD OR METAL BEAM
VARIES 36" MIN.
WOOD OR METAL POST
COMPACTED SOIL
WELDED WIRE
FILTER FABRIC BARRIER
FLOW
POST
INLET STAGE I AND II
6"
SECTION A-A
PLAN
INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC
INLET STAGE I AND II
WOOD OR METAL BEAM
WOOD OR METAL POST
VARIES
1/3
L
COMPACTED SOIL TO PREVENT PIPING
STAKED FIBER ROLL
4"
INLET
FIBER ROLL STAKED OR WEIGHTED DOWN W/ GRAVEL BAGS
PLAN
INLET PROTECTION BARRIER WITH FILTER ROLLS
GENERAL NOTES:
1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.
INLET PROTECTION BARRIERS FOR STAGE I INLETS
IPB SYMBOL
50' MIN.
R.O.W.
6:1 TYP.
EXISTING GROUND
8" MIN. GRADED TO PREVENT RUN-OFF FROM LEAVING SITE
SEPARATION GEOTEXTILE = FABRIC FOR FULL WIDTH AND LENGTH OF EXIT
PROFILE
COARSE AGGREGATE = 3" TO 5" GRANULAR FILL. BULL ROCK (CRUSHED CONCRETE) IS PERMITTED
50'-0" MIN.
CONSTRUCTION WORK ZONE
PUBLIC R-O-W
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY
PLAN
STABILIZED CONSTRUCTION ACCESS
SC-1 SYMBOL
GENERAL NOTES:
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS, OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.
CHANNEL FLOWLINE
MIN. AOS MAX. AOS WEIGHT
GEOTEXTILE NOTES: SIEVE NO. 120 MIN SIEVE NO. 50 MAX 4 OZ/SY 4 OZ. MIN
1' MIN.
C
TOE OF SLOPE
SEE NOTE B.6.
GEOTEXTILE
IN-CHANNEL FILTER DAM PLAN
FILTER DAM
WD-TYPE SYMBOL
PROJECT FLOWLINE
SEE NOTE B.6.
PIPE
GEOTEXTILE
FILTER DAM AT DETENTION BASIN OUTFALL PIPE PLAN
DEPRESS CENTER AREA
SEE NOTE A
3'
4'
WIRE MESH (SEE NOTE B.1.)
VARIES WITH TYPE SEE NOTE A
VARIES WITH TYPE SEE NOTE A
PROPOSED OR EXISTING FLOWLINE
GRANULAR FILL
SEE GEOTEXTILE NOTES
SECTION C-C
2' MIN.
VARIES WITH TYPE SEE NOTE A
PIPE
GRANULAR FILL
FLOW
5' MIN.
WIRE MESH (SEE NOTE B.1.)
SEE GEOTEXTILE NOTES
NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.
SECTION B-B
A. TYPES OF FILTER DAMS
1. TYPE 1 (NON-REINFORCED)
a. HEIGHT – 18–24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
b. TOP WIDTH – 2 FEET (MINIMUM)
c. SLOPES – 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED)
a. HEIGHT – 18–36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
b. TOP WIDTH – 2 FEET (MINIMUM).
c. SLOPES – 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
a. HEIGHT – 36–48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
b. TOP WIDTH – 2 FEET (MINIMUM).
c. SLOPES – 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
a. HEIGHT – 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
b. TOP WIDTH – 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.
B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.
1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS PROPERLY BY THE ENGINEER.
a. 3–5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
b. 4–8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 FOR GRANULAR FILL SIZES.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364–FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.
TARP
BARRELS
SECURE
IMPERMEABLE LINER
SPECIFY ON PLANS
BARREL STORAGE AREA
BSA SYMBOL
GENERAL NOTES:
1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS; 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.
SANDBAG
ROCK/AGGREGATE
10 MIL PLASTIC LINING
8"
GEOTEXTILE
SECTION A-A
CONCRETE TRUCK WASHOUT AREA
CTW SYMBOL
10' MIN.
ORANGE SAFETY FENCE ON 3 SIDES
10' MIN.
SANDBAG
10 MIL PLASTIC LINING
ROCK/AGGREGATE (8" THICK MIN.) UNDERLAID WITH GEOTEXTILE
15'
PLAN
GENERAL NOTES:
1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UNTIL THE CONCRETE SETTLE UP CURING, DRYING OUT, THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.
PLYWOOD 48"x24" PAINTED WHITE
WOOD POST 3"x3"x6'
BLACK LETTERS 4" HEIGHT
CONCRETE WASHOUT PIT
1/2" LAG SCREW
SIGN DETAIL (OR EQUIVALENT)
CURB
PLACE GRAVEL BAGS ALONG CURB & ALONG GUTTER LINE
GRAVEL BAGS PLACED SNUGLY AROUND INLET AT BACK OF CURB
FLOW
EXISTING INLET
EXISTING CONCRETE CURB AND PAVEMENT
INLET PROTECTION BARRIERS FOR STAGE II INLETS
IPB-II SYMBOL
GENERAL NOTES:
1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-22	RJS

FORT BEND COUNTY
ENGINEERING DEPARTMENT

PROJECT TITLE:	
DRAWN BY: INT	FBCED STANDARD
CK'D BY: INT	SHEET DESCRIPTION: STORM WATER POLLUTION
SCALE: NONE	54
DATE: 2-1-22	APPROVED BY: PREVENTION PLAN DETAILS SHEET NO. /

J:\LTPAH\1601\Fort Bend County Standards\Fort Bend County STP\DWG\TPDC STORM WATER POLLUTION PREVENTION PLAN DETAILS\STORM_WATER_POLLUTION_PREVENTION_PLAN_DETAILS.dwg

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Houston, Texas 77042 | 713.337.8883
TEXAS REGISTERED ENGINEERING FIRM F-3429
D + A PROJECT No. C24-052-00

Notes

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
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File Name: N/A	KB Dwn.	MN Dsgn.	KB Chkd.	2025.01.09 YYYY.MM.DD

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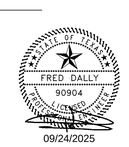

09/24/2025

Client/Project Logo

BOND
FORT BEND
INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROAD, FRESNO, TX 77545

Title
DETAILS

Project No.	Scale
C24-052-00	
Revision	Drawing No.

C600 - RPES

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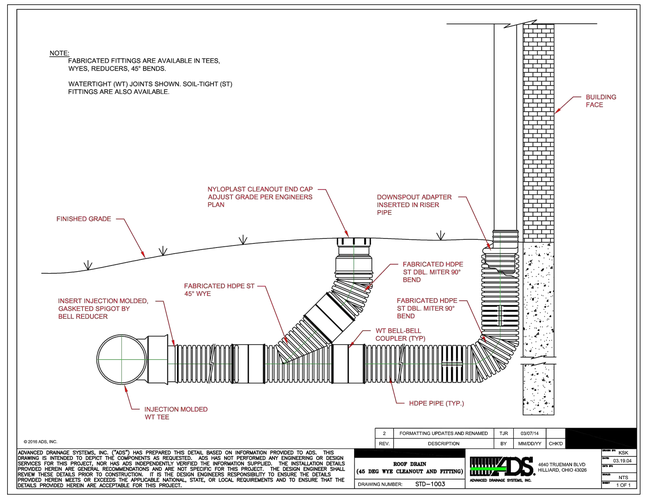
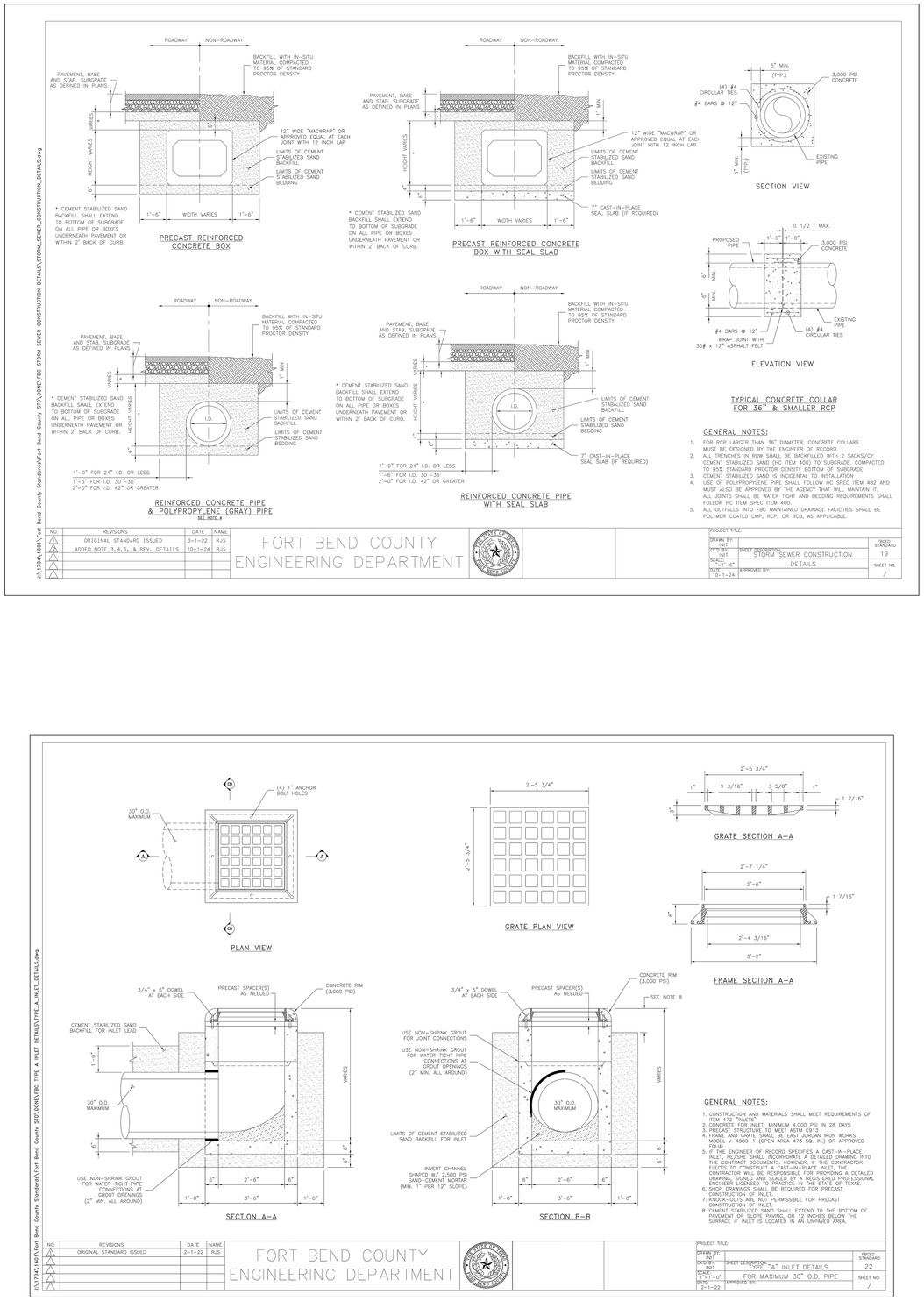
ORIGINAL SHEET - ARCH E1





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D + A PROJECT No. C24-052-00

Notes

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File Name: N/A	KB	MN	KB 2025.01.09
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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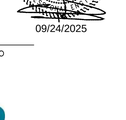

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ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROAD, FRESNO, TX 77545

Title

DETAILS (2 OF 2)

Project No.
C24-052-00

Scale

Revision

Drawing No.

C601 - RPES

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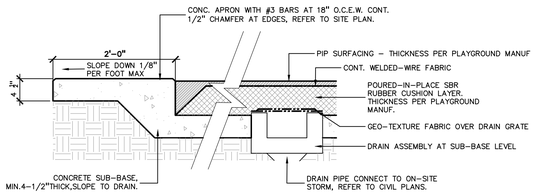


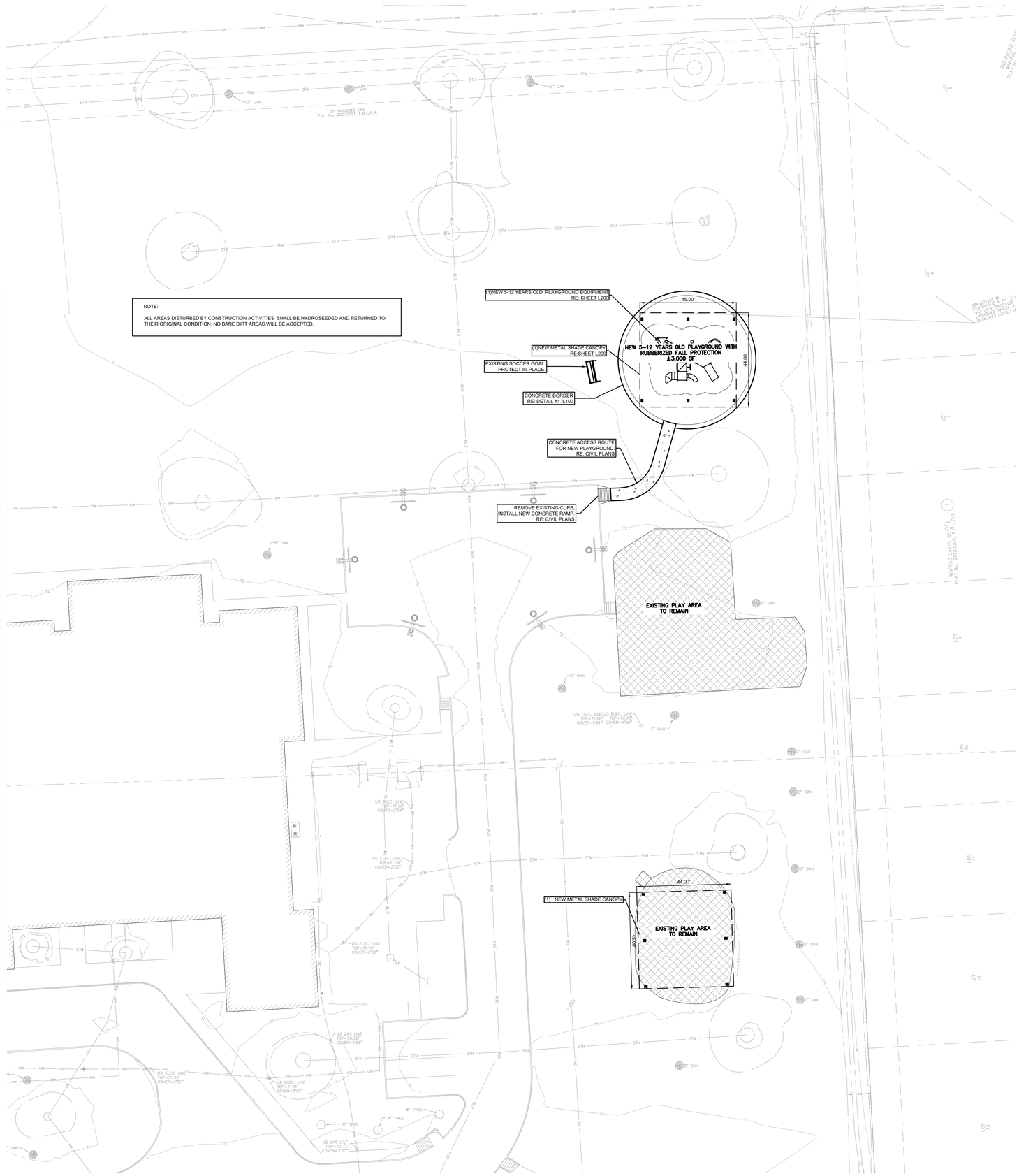
1 POURED-IN-PLACE SURFACING DETAIL

SCALE: 1" = 1'-0"

PLAYGROUND LEGEND

NOTE: MUST MEET FBISD TDG AND TAS MINIMUM ACCESSIBLE ELEMENTS REQUIREMENTS.

PRODUCT	COMPONENT	ESTIMATED QUANTITY	DESCRIPTION
(1) PLAYGROUND STRUCTURE 5 -12 YEARS OLD MIN. CAPACITY: 75 STUDENTS	INTERACTIVE GAME PANEL	1	ENGAGING PLAY PANEL WITH LIGHT/SOUND/MEMORY GAME
	REACH PANEL (GENERAL)	1	INTERACTIVE PANEL ACCESSIBLE FROM GROUND LEVEL
	DOUBLE CHIMES MUSICAL PANEL	1	OUTDOOR PERCUSSION INSTRUMENT PANEL
	MELODY WHEEL MUSICAL PANEL	1	ROTATING MELODY WHEEL WITH CHIMES OR BELLS
	STEERING WHEEL PLAY PANEL (POST-MOUNTED)	1	PRETEND PLAY DRIVING WHEEL
	WINDOW PLAY PANEL	1	IMAGINATIVE PLAY PANEL WITH TRANSPARENT/OPEN SECTION.
	BRAILLE AND CLOCK PLAY PANEL	1	INCLUSIVE SENSORY PLAY PANEL WITH BRAILLE AND CLOCK FACE
	CHARACTER-THEME PLAY PANEL	1	THEME PANEL FOR PRETEND PLAY
	SCRAMBLED MUSICAL SCALES PANEL	1	
	PANEL REACH SILLY FACE	1	
	SINGLE WIDE PLASTIC SLIDE	1	STANDARD STRAIGHT SLIDE, WIDE ENOUGH FOR INCLUSIVE PLAY
	SPIRAL SLIDE	1	HELICAL SLIDE FROM ELEVATED DECK
	DOUBLE WIDE PLASTIC SLIDE	1	PARALLEL SLIDE LANES FOR RACING OR GROUP PLAY
	CURVED ELBOW SLIDE	1	SLIDE WITH A 90-DEGREE TURN
	SINGLE-STEP DECK PLATFORM	1	
	SEAT PANEL UNDER DECK	1	SOCIAL SEATING AREA BELOW PLATFORM
	CURVED BRIDGE, APPROX. 8 FT	1	
	ARCHED BRIDGE WITH SAFETY RAIL	1	
	VERTICAL RUNG LADDER, APPROX. 2 FT HIGH	1	
	VERTICAL RUNG LADDER, APPROX. 64" HIGH	1	
	CURVED CLIMBING POLE	1	FREESTANDING OR ATTACHED CURVED CLIMBING ELEMENT
	CURLY CLIMBER	1	
	STEPPING STONE	3	
	POST PLAYERS BELLS	1	
	POST PLAYERS DRUM	1	
	CONCERTO 2-CONGAS	1	
	WELCOME SIGN	1	
(2) 44' x 45' METAL SHADE CANOPY	INCLUDING: (4) HSS STEEL EDGE BEAM. (6) HSS STEEL RAFTER; (8) HSS STEEL PURLIN BEAM; (2) HSS STEEL RIDGE BEAM; (1) EXTRUDED ALUM. RIDGE CAP; (1) 24" WIDE INTERLOCKING "W" STYLE ROOF PANELS; (1) EXTRUDED ALUM. FASCIA TRIM; DRAINAGE DOWNSPOUT.		
POURED-IN-PLACE SURFACING	INCLUDING: RUBBER PARTICLES (Blend of recycled SBR and EPDM.); BINDER (Weather resistant, UV stabilized polyurethane.); PRIMER / ADHESIVE (Moisture-cured polyurethane primer.); LEVELING AND PATCHING MATERIAL (Portland-cement-based grout or epoxy/polyurethane formulation.).	±3,000 SF	



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NORTH

Revision	By	Appd	YYYY.MM.DD
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File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd. 09/22/25 YYYY.MM.DD

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT ELIZABETH AUSTIN MARTIN 2682 STATE OF TEXAS

09/22/25

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

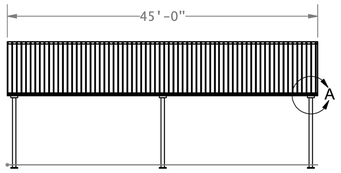
Client/Project
FORT BEND ISD

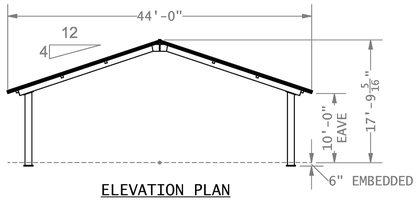
FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL
19101 CHIMNEY ROCK RD, CITY OF FRESNO, TX 77545

Title
PLAYGROUND PLAN

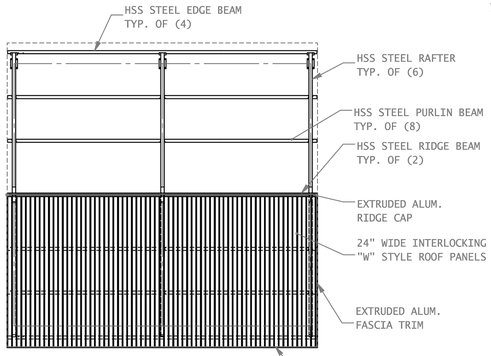
Project No.	Scale
214001246	1" = 20'-0"
Revision Sheet: 1 of 4	Drawing No. L100-RPES

ORIGINAL SHEET - ARCH E1

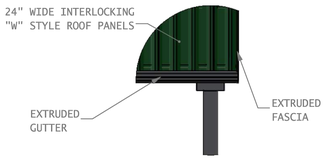




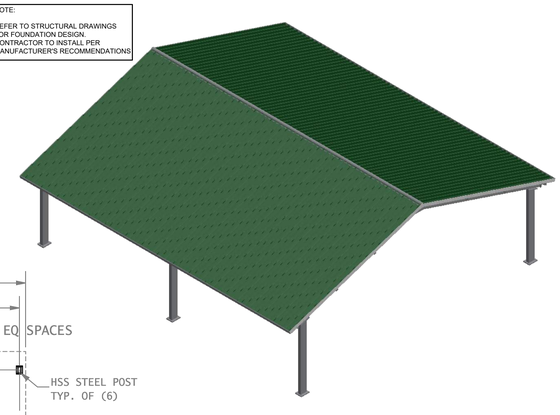
ELEVATION PLAN

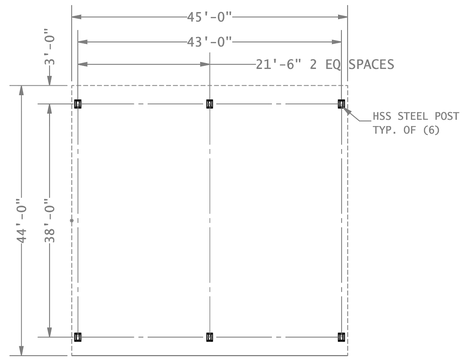


ROOF PLAN



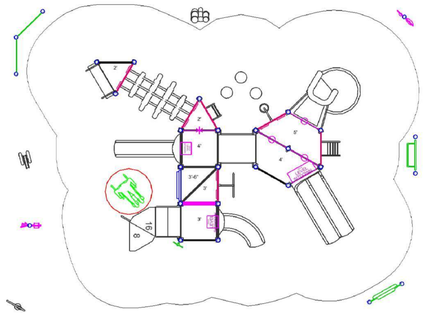
NOTE:
REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION DESIGN. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS



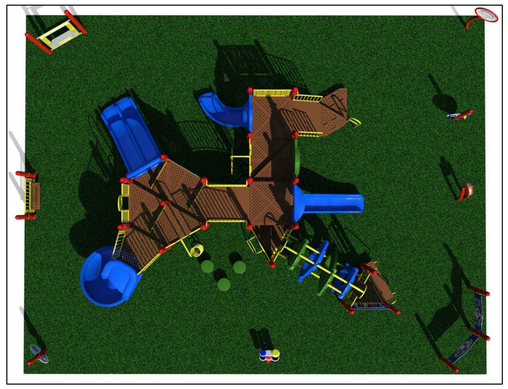


FOUNDATION PLAN

2 METAL SHADE CANOPY DETAILS
SCALE: 1" = 10'-0"



NOTE:
COLORS TO BE SELECTED BY OWNER. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



1 5-12 YEARS OLD PLAYGROUND STRUCTURE
NOT TO SCALE

ORIGINAL SHEET - ARCH E1

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal
REGISTERED LANDSCAPE ARCHITECT ELIZABETH AUSTIN 2692 STATE OF TEXAS
09/22/25

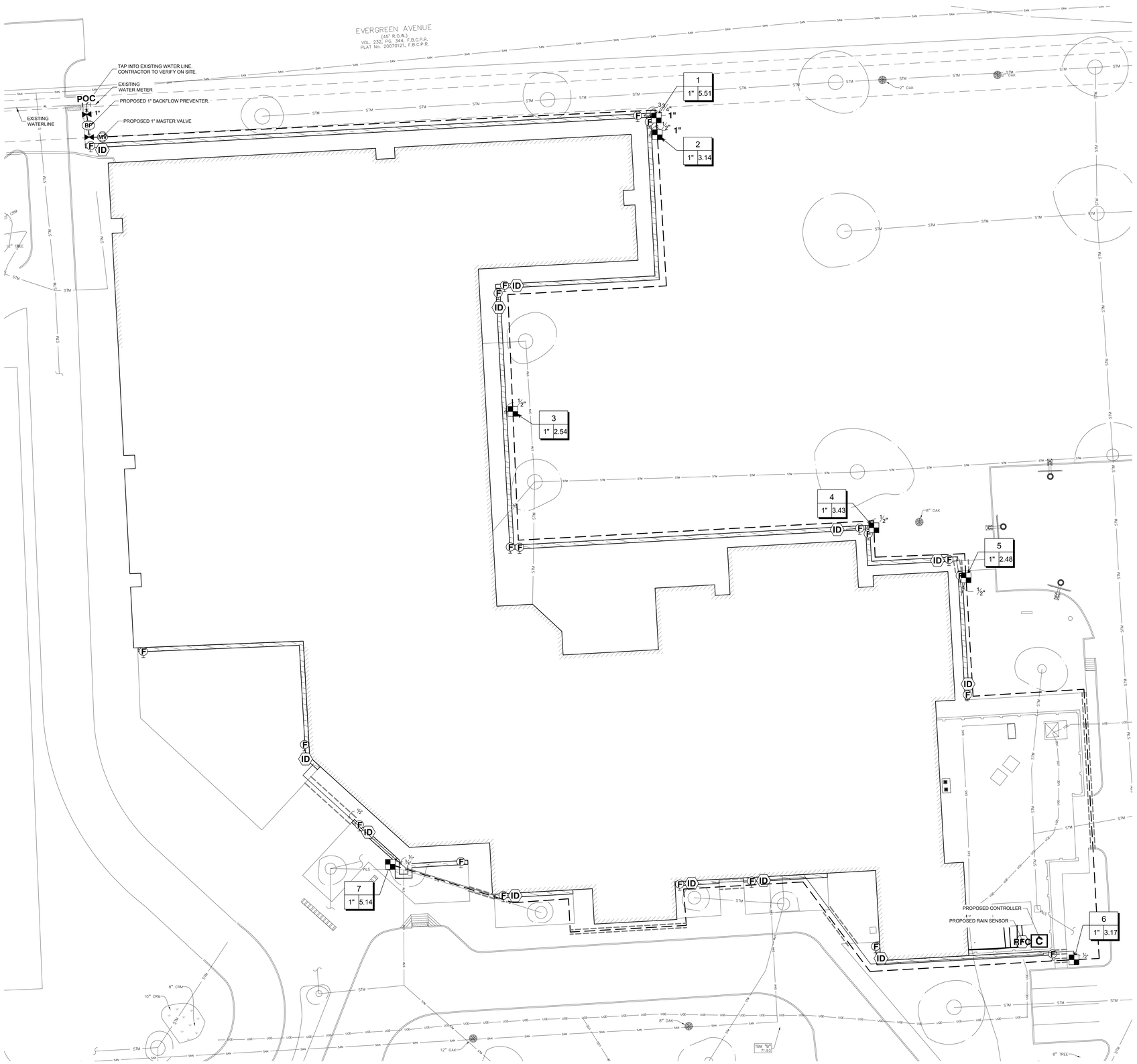
Client/Project Logo
2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL
19101 CHIMNEY ROCK RD, CITY OF FRESNO, TX 77545

Title
PLAYGROUND ENLARGEMENT

Project No. 214001246
Scale VARIES
Revision
Sheet 2 of 4
Drawing No. L200-RPES



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZPGA-100-PRF 1" MEDIUM FLOW, 3-15 GPM, WITH 1IN. PGA VALVE AND 1IN. PRESSURE REGULATING RBY FILTER AND 40PSI PRESSURE REGULATOR. IT IS 2 WIRE COMPATIBLE RESIDENTIAL CONTROL ZONE KIT.	7
F	NETAFIM TL050MFV-1 AUTOMATIC FLUSH VALVE, 1/2IN. MALE PIPE THREAD.	21
ID	HUNTER ECO-ID ECO-ID: 1/2IN. FPT CONNECTION WITH 12 PSI-70 PSI OPERATING PRESSURE. SPECIFY WITH HUNTER SJ SWING JOINT.	12
	AREA TO RECEIVE DRIPLINE HUNTER HDL-06-12-CV HDL-06-12-CV: HUNTER DRIPLINE W/ 0.6 GPH EMITTERS AT 12" O.C. CHECK VALVE, DARK BROWN TUBING WITH GRAY STRIPING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.	2,540 LF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	ISOLATION VALVE IRON, STAINLESS STEEL, BRONZE SHUT OFF VALVE. LATERAL ISOLATION AVAILABLE IN 2IN. WITH VARIABLE RISER. GASKET X GASKET. EPDM SEAL.	2
MV	HUNTER IBV-BSP 1" 1IN., 1-1/2IN., 2IN., AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
BF	FEBCO 860 1" REDUCED PRESSURE BACKFLOW PREVENTER	1
C	RAIN BIRD ESPLXME2-LXMM (2) 12 STATION TRADITIONALLY-WIRED, COMMERCIAL CONTROLLER. INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALL IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET.	1
RFC	RAIN BIRD WR2-RFC WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.	1
POC 1"	POINT OF CONNECTION 1"	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1/2"	376.2 LF
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 3/4"	9.7 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40 1"	1,468 LF
	PIPE SLEEVE: PVC CLASS 200 SDR 21	231.4 LF

Valve Callout

CRITICAL ANALYSIS

Generated: 2025-07-07 13:28

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1"
Flow Available 19.62 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 65 PSI
Pressure Available: 65 PSI

DESIGN ANALYSIS
Maximum Station Flow: 5.51 GPM
Flow Available at POC: 19.62 GPM
Residual Flow Available: 14.11 GPM

Critical Station:	7
Design Pressure:	30 PSI
Friction Loss:	2.38 PSI
Fittings Loss:	0.3 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.23 PSI
Pressure Req. at Critical Station:	36.9 PSI
Loss for Fittings:	1.11 PSI
Loss for Main Line:	11.1 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	11.5 PSI
Loss for Master Valve:	2.51 PSI
Critical Station Pressure at POC:	63.1 PSI
Pressure Available:	65 PSI
Residual Pressure Available:	1.88 PSI

NOTE:
- IRRIGATION DESIGN IS DIAGRAMMATIC.ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN THE PLANTING AREAS IN A MANNER SO AS TO CONFORM WITH THE VARIOUS DETAILS.
- DRIP LINE TO BE INSTALLED BELOW GRADE WITH 2 STRIPS OF SOLID SOD TO BE INSTALLED ON TOP OF BURIED DRIP LINE.

IRRIGATION NOTES:

1. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM PROVIDING FULL COVERAGE AND READY FOR USE BY THE OWNER. THE DRAWINGS ARE BASED ON SURVEY PLANS IN EFFECT AT THE TIME THESE DRAWINGS WERE MADE. ANY DISCREPANCIES, OMISSIONS, ERRORS, ETC. ON THESE DRAWINGS OR ON SITE CHANGES, DOES NOT AND SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE A COMPLETE SYSTEM AS SHOWN. IF NECESSARY, THE CONTRACTOR MAY, WHERE CHANGES OCCUR, ADD OR DELETE SPRINKLERS, REROUTE PIPE, ETC. TO ASSURE ADEQUATE AND FULL COVERAGE PER APPROVAL OF THE LANDSCAPE ARCHITECT.
2. THE CONTRACTOR SHALL VERIFY AND BE FAMILIAR WITH THE LOCATION, SIZE AND DETAIL OF UTILITIES PROVIDED, AS SHOWN ON THE PLANS, PRIOR TO CUTTING INTO THE SOIL THE CONTRACTOR SHALL LOCATE ALL UTILITIES AS ARE COMMONLY ENCOUNTERED UNDERGROUND AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH IMPROVEMENTS. THE CONTRACTOR SHALL CALL DIG ALERT (811) PRIOR TO ANY WORK TAKING PLACE, AND CONTACT THE CITY REPRESENTATIVE FOR LOCATION OF NEWLY INSTALLED UTILITIES.
3. THE IRRIGATION DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN THE PLANTING AREAS IN A MANNER SO AS TO CONFORM WITH THE VARIOUS DETAILS.
4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTION, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREAS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTION OR DIFFERENCES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY REVISIONS THAT ARE NECESSARY.
5. MATERIALS, WORKMANSHIP AND INSTALLATION SHALL BE NEW AND OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
6. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO THIS WORK.
7. ADJUST ALL SPRINKLERS, VALVES OR CHANGE NOZZLE SIZE AND TYPE TO ALLOW FOR COVERAGE WITH MINIMAL OVER-SPRAY. DO NOT ALLOW OVER-SPRAY ON BUILDINGS, WALLS, AND SIDEWALKS.
8. INSTALL APPROPRIATE MAIN LINE PIPING FROM METER TO BACKFLOW PREVENTER PER LOCAL CODE.
9. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR ELECTRICAL POWER TO CONTROLLER LOCATIONS AND MAKE FINAL HOOK-UP. FINAL HOOK-UP SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR.
10. IRRIGATION DESIGN PRESSURE IS 65 PSI STATIC PRESSURE AT THE METER. CONTRACTOR SHALL VERIFY STATIC PRESSURE ON THE SITE AT POINT OF CONNECTION PRIOR TO START OF WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. EXISTING STATIC PRESSURE IN CITY MAIN IS UNKNOWN.
11. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF "UNIFORM PLUMBING CODE" AS WELL AS LOCAL ORDINANCES.
12. IRRIGATION SYSTEM SHALL NOT BE MODIFIED OR CHANGED IN ANY WAY WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT.
13. INSTALL CONSTANT MAIN LINE 24" BELOW FINISH GRADE AND 32" BELOW SUBGRADE OR STREETS AND/OR DRIVES. DIMENSION IS TO TOP OF PIPE.
14. INSTALL INTERMEDIATE PRESSURE LATERAL LINE MINIMUM 12" BELOW FINISH GRADE FOR SPRAY HEADS AND 14" BELOW FINISH GRADE FOR ROTORS AND 24" BELOW SUBGRADE OF STREETS AND/OR DRIVES.
15. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. THE GENERAL REQUIREMENTS OF THE SPECIFICATIONS SHALL BECOME PART OF THE IRRIGATION WORK.
16. IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE, SUITABLE FOR DIRECT BURIAL.
17. INSTALL ONE ADDITIONAL WIRE OF EACH COLOR FROM THE CONTROLLER TO THE LAST VALVE ON BOTH SIDES OF THE LINEAR PARK. THE IRRIGATION WIRE IS TO BE LOCATED DIRECTLY TO THE SIDE OF THE MAIN LINE AND TAPED AT INTERVALS OF 8'.
18. INSTALL "CHRISTY" TAG LOCATED ON THE CONTROL WIRE OF EACH ICV INDICATING CLOCK AND VALVE NUMBER.

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Notes

NORTH

Revision	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd. 09/22/25 YYYY.MM.DD

Permit/Seal

STATE OF TEXAS
JINGLIN ZHAO
LI0029076
LICENSED IRRIGATOR
07/22/25

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

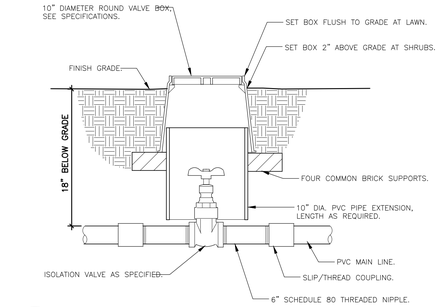
Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL
19101 CHIMNEY ROCK RD, CITY OF FRESNO, TX 77545

Title
IRRIGATION PLAN

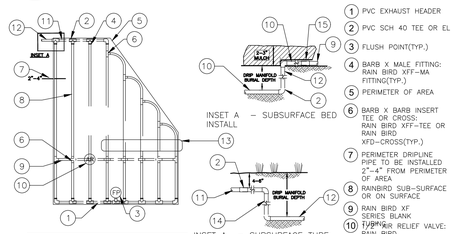
Project No. 214001246
Scale 1" = 20'-0"
Revision Sheet 3 of 4
Drawing No. L300-RPES

ORIGINAL SHEET - ARCH E1



8 BRASS ISOLATION VALVE

1/8" = 1'-0" P-CO-IR-VALV-10



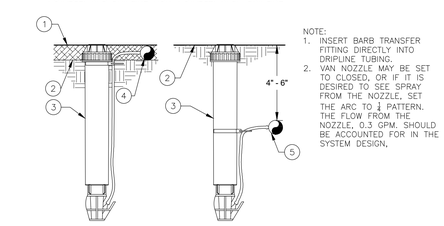
Dripline Maximum Lateral Lengths (Feet)						
	12" Spacing		18" Spacing		24" Spacing	
Inlet Pressure psi	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	424	322
20	316	196	353	294	508	368
30	360	226	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	455	720	488
60	460	290	598	555	780	518

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTHS OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50 PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL
3. FLUSH POINT(TYP.)
4. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING(TYP.)
5. PERIMETER OF AREA
6. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS(TYP.)
7. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
8. RAINBIRD SUB-SURFACE OR ON SURFACE
9. RAIN BIRD XF SERIES BLANK TUBING
10. AIR RELIEF VALVE: RAIN BIRD MODEL:ARV050
11. PVC SUPPLY MAINFOLD
12. PVC SUPPLY PIPE FROM RAIN BIRD CONROL ZONE KIT
13. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
14. PVC SCH 40 RISER PIPE
15. WEED BARRIER FABRIC

7 DRIPLINE IRRIGATION LAYOUT

3/4" = 1'-0" P-CO-IR-DRIP-13

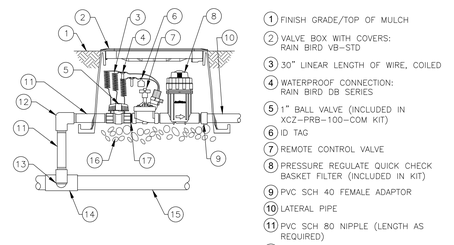


1. MULCH
2. FINISH GRADE
3. OPERATION INDICATOR RAIN BIRD MODEL: OPERIND
4. ON-SURFACE DRIPLINE:
   RAIN BIRD XF SERIES DRIPLINE
   POTABLE:XFD SERIES
   NON-POTABLE: XFDP SERIES
5. SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE
   POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE

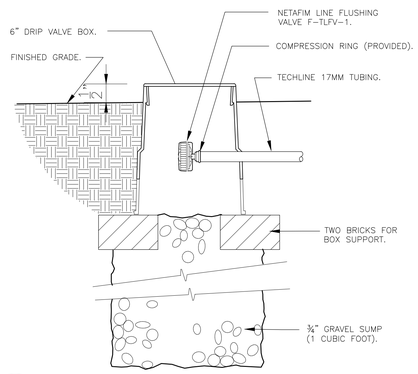
NOTE:
1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO ⊥ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

6 DRIP OPERATION INDICATOR

3/4" = 1'-0" P-CO-IR-DRIP-07

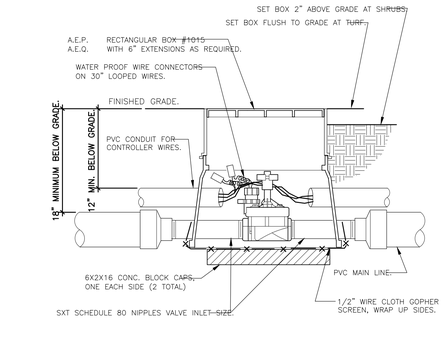


1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVERS: RAIN BIRD VB-STD
3. 30" LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1" BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE
8. PRESSURE REGULATE QUICK CHECK BASKET FILTER (INCLUDED IN KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN KIT)



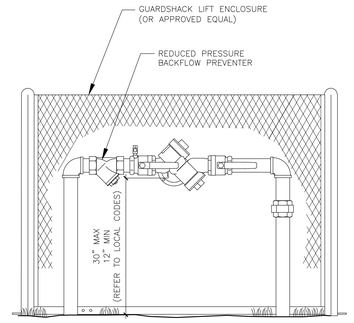
9 NETAFIM TECHLINE FLASH VALVE

1" = 1'-0" P-CO-IR-DRIP-14



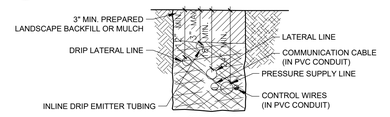
4 MASTER CONTROL VALVE

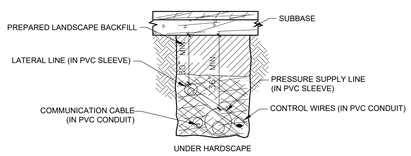
1/8" = 1'-0" P-CO-IR-VALV-13



3 FEBCO MODEL DETAIL

1 1/2" = 1'-0" P-CO-IR-HD-02

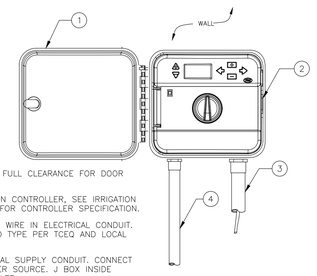




NOTES:
1. SLEEVE ALL PIPE AND WIRES UNDER WALKS, DRIVEWAYS, STRUCTURES, WALLS, ETC.
2. EXTEND SLEEVE INTO LANDSCAPE AREA 12" MIN.
3. ALL BACKFILL MATERIAL SHALL BE FREE OF RUBBISH, AND STONES LARGER THAN 3/8" MAX. DIMENSIONS.
4. TAPE AND BUNDLE WIRING OR TUBING AT 10' INTERVALS.
5. ALL PLASTIC PIPES TO BE SNAKED IN TRENCHES.
6. ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.

2 IRRIGATION TRENCH

1" = 1'-0" P-CO-IR-AUXI-11



1. PROVIDE FULL CLEARANCE FOR DOOR OPENING
2. IRRIGATION CONTROLLER, SEE IRRIGATION LEGEND FOR CONTROLLER SPECIFICATION.
3. CONTROL WIRE IN ELECTRICAL CONDUIT. SIZA AND TYPE PER TCEQ AND LOCAL CODE
4. ELECTRICAL SUPPLY CONDUIT. CONNECT TO POWER SOURCE. J BOX INSIDE CONTROLLER.

NOTES:

PROVIDE RAIN/FREEZE SENSOR AND AFFIX SENSOR TO INSIDE OF PARAPET WALL ABOVE CONTROLLER.
CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

5 DRIP ZONE CONTROL VALVE KIT

3/4" = 1'-0" P-CO-IR-DRIP-06

1 IRRIGATION CONTROLLER

1" = 1'-0" P-CO-IR-AUXI-05

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Notes

Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
File Name: N/A	JZ Dwn.	JZ Dsgn.	EM Chkd. 09/22/25 YYYY.MM.DD

Permit/Seal

Client/Project Logo

2025 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL
19101 CHIMNEY ROCK RD, CITY OF FRESNO, TX 77545

Title
IRRIGATION DETAILS

Project No.	Scale
214001246	VARIES
Revision Sheet: 4 of 4	Drawing No. L400-RPES

ORIGINAL SHEET - ARCH E1

STRUCTURAL ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICALS	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
ACI	AMERICAN CONCRETE INSTITUTE	LW	LONG WAY
ADDL	ADDITIONAL	MATL	MATERIAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAX	MAXIMUM
		MC	MOMENT CONNECTION, MISCELLANEOUS CHANNEL
AISI	AMERICAN IRON AND STEEL INSTITUTE	MECH	MECHANICAL
ANSI	AMERICAN NOTIONAL STANDARD INSTITUTE	MANUF	MANUFACTURER(S)
		MID	MIDDLE
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MO	MASONRY OPENING
		NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	NOM	NOMINAL
		NTS	NOT TO SCALE
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
BC	BOTTOM CHORD	OD	OUTSIDE DIAMETER
BOD	BOTTOM OF DECK	OPNG	OPENING
BOT	BOTTOM	OPP	OPPOSITE
BP	BASE PLATE	PL	PLATE
BRG	BEARING	PLF	POUNDS PER LINEAR FOOT
C	CHANNEL, COMPRESSION, CAMBER	PROJ	PROJECTION
CIP	CAST IN PLACE	PSI	POUNDS PER SQUARE INCH
CL	CENTER LINE	PSF	POUNDS PER SQUARE FOOT
CLR	CLEAR	R	RADIUS
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	RE	REFER, REFERENCE
CONT	CONTINUOUS	REINF	REINFORCEMENT (D), (ING), (MENT)
CSJ	CONSTRUCTION JOINT	REQD	REQUIRED
CTJ	CONTROL JOINT	REV	REVISION
DET	DETAIL	RO	ROUGH OPENING
DIA	DIAMETER	SCHED	SCHEDULE(D)
DIAG	DIAGONAL	SDI	STEEL DECK INSTITUTE
DP	DOUBLE PITCHED	SECT	SECTION
DWG	DRAWING	SF	SQUARE FEET
DWL	DOWEL	SIM	SIMILAR
EA	EACH	SJI	STEEL JOIST INSTITUTE
EF	EACH FACE	SPEC	SPECIFICATION(S)
EJ	EXPANSION JOINT	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STIF	STIFFINER
ELEV	ELEVATOR	STL	STEEL
EOD	EDGE OF DECK	STR	STRUCTURAL
EOS	EDGE OF SLAB	T	TOP, TENSION
EQ	EQUAL(LY)	T&B	TOP AND BOTTOM
EXIST	EXISTING	T&G	TONGUE AND GROOVE
EXP	EXPANSION	TEMP	TEMPERATURE
FD	FLOOR DRAIN	THK	THICK(NESS)
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF CONCRETE
FND	FOUNDATION	TOF	TOP OF FOOTING
FS	FAR SIDE	TOJ	TOP OF JOIST
FT	FEET, FOOT	TOL	TOP OF LEDGE
FTG	FOOTING	TOP	TOP OF PANEL
GA	GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GB	GRADE BEAM	TRD(S)	TREAD(S)
HORIZ	HORIZONTAL	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION	UL	UNDERWRITERS LABORATORY
ID	INSIDE DIAMETER	UNF	UNIFORM
IN	INCHES	UON	UNLESS OTHERWISE NOTED
JST	JOIST	V	BEAM AND SHEAR
JT	JOINT	VB	VERTICAL BRACE
K	KIPS, JOIST SERIES	VERT	VERTICAL
KB	KNEE BRACE	W	WALL, EST, WIDTH, WIDE FLANGE
L	SPAN, LEFT, STEEL ANGLE	W/	WITH
Ld	DEVELOPMENT LENGTH	WL	WIND LOAD, WATER LEVEL, WORKING LINE
LL	LIVE LOAD		
LLBB	LONG LEG BACK TO BACK	WP	WATER PROOF, WORKING POINT

STRUCTURAL LEGEND

P1	PRECAST CONCRETE PANEL MARK	S1	SPAN DIRECTION OF A MILD REINFORCED CONCRETE SLAB W/ MAIN REINFORCING MARK S1
F1	SPREAD FOOTING MARK	DECK TYPE 1	SPAN OF 5 1/2" THICK CONCRETE SLAB W/ TYPE 1 STEEL DECK
P1	PLINTH MARK	DECK TYPE 1	SPAN DIRECTION OF BARE STEEL DECK TYPE 2 WITH NO CONCRETE TOPPING
C1	COLUMN MARK	20KSP	SPECIAL OPEN WEB K SERIES STEEL JOIST, SEE PLAN NOTES FOR LOAD REQUIREMENTS
CF1	CONTINUOUS FOOTING MARK	W27X84 <24'-0">	STANDARD AISC ROLLED SHAPE OF W27X84 AT ELEVATION 24'-0" ABOVE DATUM
RW1	RETAINING WALL MARK	W27X84 c=1"	STANDARD AISC ROLLED SHAPE OF W27X84 WITH A 1" UPWARD CAMBER
BP1	BASE PLATE MARK	W27X84 (10)	STANDARD AISC ROLLED SHAPE OF W27X84 W/ 10 HSA (EQUALLY SPACED)
A	STRUCTURAL STEEL COLUMN SPLICE TYPE MARK	W27X84 (10, 6, 12) WBEAM WBEAM	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 28 HSA EQUALLY SPACED FROM BOTTOM TO TOP AS 10 CONNECTORS / 6 CONNECTORS / 12 CONNECTORS
24/24	STRAIGHT SHAFT PIER (SHAFT Ø)		
24/48	DRILLED PIER (SHAFT AND BELL Ø)	BEAM	CONNECTED TO A ROLLED SHAPE COLUMN WITH A STANDARD WELDED MOMENT CONNECTION STANDARD AISC ROLLED SHOPE BEAM
B1 GB1 1B1	MILD REINFORCED CONCRETE BEAM MARK		
J1	MILD REINFORCED CONCRETE JOIST MARK	6"	SLAB DEPRESSION AND AMOUNT

STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:
1. THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:
1. INTERNATIONAL BUILDING CODE, 2021 EDITION.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-22 , AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACE), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 15TH EDITION (ASD), 2005, AS AMENDED.
5. AMERICAN WELDING SOCIETY (AWS).
6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS.
7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:
1. SUPER-IMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF)

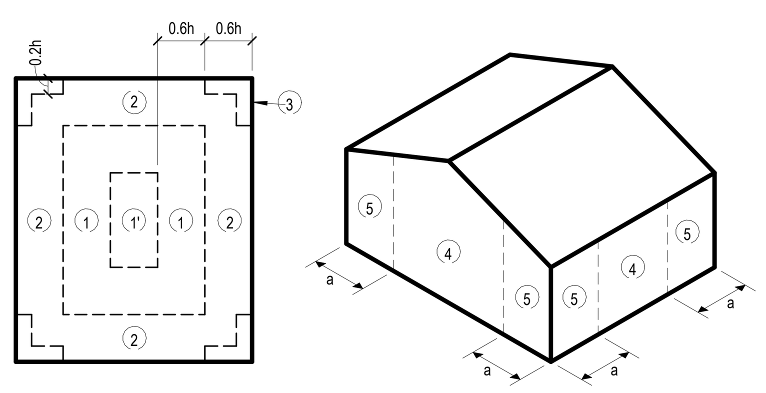
BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
SLAB ON GRADE	0	100
ROOF	20	20
MECHANICAL AREAS	10	150 (**)

* INCLUDES ALL ALLOWANCES OF 15 PSF FOR PARTITION WEIGHT
** EQUIPMENT WEIGHT IF LARGER

D. LATERAL DESIGN LOADS (CLOSED STRUCTURE):
1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF 144 MPH (ASD WIND SPEED OF 112 MPH), 3-SECOND GUST, WITH EXPOSURE B AND A RISK CATEGORY III.
2. COMPONENTS AND CLADDING PRESSURES (PSF) FOR "CLOSED" BUILDINGS:

	EFFECTIVE WIND AREA	CLEAR WIND FLOW					
		ZONE 3		ZONE 2		ZONE 1	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
WIND PRESSURE	≤46.2 SF	58.3 PSF	-84.8 PSF	44.1 PSF	-43.2 PSF	29.2 PSF	-28.3 PSF
	>46.2, ≤185 SF	44.1 PSF	-43.2 PSF	44.1 PSF	-43.2 PSF	29.2 PSF	-28.3 PSF
	>185 SF	29.2 PSF	-28.3 PSF	29.2 PSF	-28.3 PSF	29.2 PSF	-28.3 PSF

a. RE: 2021 IBC FOR DESCRIPTION OF CORNER, PERIMETER AND FIELD.
b. POSITIVE PRESSURES ARE PRESSURES ACTING TOWARDS THE BUILDING.
c. NEGATIVE PRESSURES ARE PRESSURES ACTING AWAY FROM THE BUILDING.
d. VALUES ABOVE ARE FOR BASIC DESIGN WIND PRESSURES THE ASD FACTOR 0.6..
e. ZONE WIDTH DIMENSIONS:
- a (WALLS) = 6.8FT
- 0.2h = 4.6FT
- 0.6h = 14FT



ROOF WALL

E. SEISMIC CRITERIA:

1. IMPORTANCE FACTOR:	1.25
2. RISK CATEGORY:	III
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss: 0.077, S1: 0.042
4. SITE CLASS:	X
5. SPECTRAL RESPONSE COEFFICIENTS:	SDs: 0.068, SD1: 0.042
6. SEISMIC DESIGN CATEGORY:	A

F. SPECIAL LOADS:
1. STAIR TREADS, RAILING AND GUARDRAILS:

ITEM	REQUIRED CAPACITY
TREADS	300 POUNDS AT CENTER
TOP RAILS	50 PLF HORIZONTALLY (DISTRIBUTED)
OTHER RAILS, FILLERS & CONNECTIONS	50 PLF HORIZONTALLY (DISTRIBUTED)
HAND RAILS	200 POUNDS ANY DIRECTION

2. PIPE LOADS WITH WATER

SIZE	WEIGHT MAX	SPACING OF HANGERS
4" Ø	17 PLF	10'-0"
6" Ø	32 PLF	10'-0"
8" Ø	50 PLF	10'-0"
10" Ø	75 PLF	5'-0"
12" Ø	102 PLF	5'-0"
VALUES ASSUME SCHEDULE 40 STEEL PIPE		

G. ROOF RAIN LOAD DATA:
1. RAIN INTENSITY 60MIN, i = 5.32 IN/HR

H. GROUND SNOW LOADS:
1. GROUND SNOW: 9 PSF
2. FLAT-ROOF SNOW LOAD: X PSF
3. SNOW EXPOSURE FACTOR: X
4. SNOW IMPORTANCE FACTOR: X
5. THERMAL FACTOR: X
6. SLOPE FACTOR(S): X
7. DRIFT SURCHARGE LOADS AND WIDTH OF SNOW DRIFTS SEE FRAMING PLANS

WIND STORM

A. WIND STORM CRITERIA:
1. BUILDING TYPE: EDUCATIONAL
2. BASIC WIND SPEED:
   A. 144 MPH (EQUIVALENT NOMINAL: 112 MPH)
   B. 3 SECOND GUST
   C. EXPOSURE B
3. COUNTY: FORT BEND
4. BUILDING CODE: 2021 IBC WITH LOCAL AMENDMENTS IN WHICH THE BUILDING IS BEING PERMITTED
5. IMPACT RESISTANCE: YES / NO
6. SHUTTERS: YES / NO

B. WIND STORM SUBMITTALS:
1. DOORS
2. WINDOWS
3. CURTAIN WALL / STOREFRONT
4. TRANSLUCENT WALL / ROOF ASSEMBLIES
5. EXTERIOR COVERING (SIDING, METAL PANELS, EIFS, ETC.)
6. GARAGE DOORS
7. LOUVERS
8. ROOFING
9. ROOF HATCHES
10. SHUTTERS
11. SKYLIGHTS
12. RTU AND RTU CURB ATTACHMENT
13. PEMB CANOPIES

* IMPACT RESISTANCE APPLIES TO EXTERIOR GLAZING IN DOORS, OVERHEAD DOORS, WINDOWS, CURTAINWALL SYSTEMS AND SKYLIGHTS (SMALL MISSLE ABOVE 30'-0" ABOVE GROUND, LARGE MISSLE BELOW 30'-0" ABOVE GROUND)

GC TO SUBMIT SHOP DRAWINGS FOR APPROVAL TO THE WINDSTORM CERTIFICATION ENGINEER PRIOR TO PURCHASING MATERIALS. ANY ITEM NOT MEETING PRE-APPROVED TEXAS DEPARTMENT OF INSURANCE (TDI) CERTIFICATIONS SHALL BE REJECTED. THE ABOVE COMPONENTS SHALL INCLUDE SIGNED AND SEALED SUBMITTALS SHOWING THEY MEET THE WINDSTORM CRITERIA.

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH (PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SUMP (IN)	W/C RATIO
	3000	3500	4000			
DRILLED PIERS	●			1 1/2"	5-7	0.55
SLAB ON GRADE		●		1"	4-6	0.50
SLAB ON DECK		●		1"	4-6	0.50
GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.
C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI
D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.
E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
   a. LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.
F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.
G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE H. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.
H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.
   1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.
   2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL".

BAR SIZE GRADE 60	Ld FOR TOP BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)				Ld FOR BOTTOM BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000 / 3500	4000	5000	6000	3000 / 3500	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

J. AT LAP SPLICES, PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld SHOWN IN THE TABLE IN NOTE H ABOVE.
K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.
L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.
   1. UNIFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES
   2. UNIFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES
   3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
      - #6 AND LARGER: 2 INCHES
      - #5 AND SMALLER: 1 1/2 INCHES
   4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
      - SLABS AND WALLS: 3/4 INCH
      - BEAMS AND COLUMNS: 1 1/2 INCHES

SHEET LIST	
Sheet Number	Sheet Name
S101	GENERAL STRUCTURAL CRITERIA
S102	GENERAL STRUCTURAL CRITERIA
S201	FOUNDATION PLAN - COMPOSITE
S301	FOUNDATION SCHEDULE & DETAILS

GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
B. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
C. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.
D. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.
E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.
F. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.
G. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.
H. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.
I. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
J. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.
K. SHOP DRAWINGS:
   1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.
   2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
   3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
   4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
   5. STRUCTURAL SUBMITTALS REQUIRED FOR APPROVAL INCLUDE, BUT ARE NOT LIMITED TO:
      - CONCRETE ACCESSORIES (MANUFACTURERS PRODUCT DATA)
      - STEEL REINFORCING
      - CONCRETE MIX DESIGN
      - CONTROL JOINT LAYOUT
      - CONCRETE MATERIAL CERTIFICATES
      - STRUCTURAL STEEL FRAMING
      - STRUCTURAL STEEL CONNECTION CALCULATIONS
      - STEEL ROOF DECK
      - COLD FORMED METAL FRAMING
      - COLD FORMED METAL FRAMING CALCULATIONS
      - MISC. STEEL FABRICATIONS
   6. DELEGATED STRUCTURAL DESIGN OF COMPONENTS:
      - SEE APPLICABLE SECTIONS OF GENERAL NOTES FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.
L. THESE NOTES APPLY TO STRUCTURAL DOCUMENTS SEALED BY THE STRUCTURAL ENGINEER AND ARE INTENDED TO BE COMPLEMENTARY TO AND USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, INCLUDING THOSE PREPARED BY OTHER DISCIPLINES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/STRUCTURAL ENGINEER IMMEDIATELY. ANY SUCH DISCREPANCIES SHALL BE RESOLVED TO THE MORE STRINGENT REQUIREMENTS, UNLESS OTHERWISE AUTHORIZED BY THE STRUCTURAL ENGINEER.
M. ANY DISCREPANCIES ON THE STRUCTURAL DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF BIDS OR PROPOSALS, OR IF NOT REASONABLE DISCERNABLE DURING PREPARATION OF BIDS AND PROPOSALS, BEFORE COMMENCING THE WORK IN QUESTIONS. NO FIELD CHANGES OR DIVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER. NO CHANGE ORDER CONSIDERATION WILL BE GIVEN TO CHANGES FOR WHICH THE ARCHITECT AND/OR ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
N. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION, INCLUDING EXISTING WORK, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORT IMMEDIATELY TO THE ARCHITECT/STRUCTURAL ENGINEER.
O. GENERAL FRAMING NOTES:
   1. FOR ALL MISCELLANEOUS STEEL SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME THE FOLLOWING AS A MINIMUM AND CONFIRM FINAL ASSUMPTIONS WITH STRUCTURAL ENGINEER:
      - EQUAL LEG ANGLES = L4X4X5/16
      - LLV ANGLES = L6X4X5/16
      - CHANNELS = C8X11.5
      - HSS TUBES =HSS6X6X3/8
      - LSV TUBE = HSS12X8X1/2
      - ROUND TUBE = 6" STD PIPE
      - WIDE FLANGE = W14X22
      - STEEL PLATE = 3/8" THICK
   2. FOR ALL MECHANICAL OPENINGS SHOWN ON ARCHITECTURAL OR MEP DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE W14X22 PERIMETER BEAMS AS REQUIRED TO FRAME REQUIRED OPENING WHERE OPENING DIMENSIONS EXCEED 5'-0" IN ANY DIRECTION.
   3. FOR ALL WINDOWS, STOREFRONTS AND CURTAINWALLS EXCEEDING 10'-0" IN LENGTH WHERE HANGING STEEL TO SUPPORT THE HEADER IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE C6X8.2 VERTICAL HANGERS WITH L4X4X1/4 KICKERS AT 4'-0" OC AND CONTINUOUS L6X4X5/16 ANGLE ALONG THE BOTTOM. PROVIDE CONTINUOUS HSS6X2X1/4 (LSH) IN LIEU OF L6X4 BOTTOM ANGLE AND GALVANIZE 3/8" BENT LEDGER PLATE WHERE MASONRY WILL BE SUPPORTED.
   4. FOR ALL FOLDING PARTITIONS WHERE HANGING STEEL TO SUPPORT HEADER TRACK IS NOT SHOWN ON STRUCTURAL DRAWINGS PROVIDE C6x8.2 VERTICAL HANGERS WITH L4x4x1/4 KICKERS AT 4'-0" AND CONTINUOUS WT6X20 ALONG THE BOTTOM. HANGERS SHALL BE SPACED AT 2'-0" ON CENTER AT STACKED ENDS OF PARTITION.
   5. FOR ALL COILING OVERHEAD DOORS AND ROLLING GRILLS EXCEEDING 10'-0" IN WIDTH WHERE TUBE STEEL TO SUPPORT THE DOOR/HOUSING IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE HSS12X8X3/8 (LSV) INTERMEDIATE STEEL TUBE.
   6. ALL STAIR MEMBERS INCLUDING, BUT NOT LIMITED TO, STRINGERS, LANDINGS AND HANDRAILS SHALL BE DESIGNED BY THE STAIR ENGINEER AND STEEL FABRICATOR.
P. GENERAL FOUNDATION NOTES:
   1. FOR ALL SLAB ON GRADE SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME 5" THICK CONCRETE SLAB WITH #4 REINFORCING BARS AT 14" OC IN EACH DIRECTION.
   2. MECHANICAL EQUIPMENT AND LOCKERS SHALL RECEIVE A HOUSEKEEPING PAD AS INDICATED IN MEP OR ARCHITECTURAL DRAWINGS AND PER MANUFACTURER'S RECOMMENDATIONS.
   3. THE MAXIMUM GRADE BEAM SPAN IS 20'-0". PROVIDE ADDITIONAL 24/48 PIER AT MID SPAN WHERE PIERS ARE NOT SHOWN ON PLAN AND ALLOWABLE SPAN IS EXCEEDED.
   4. ASSUME GRADE BEAM TYPE "GB1" FOR ALL LOCATIONS WHERE CMU WALLS EXCEED 16'-0" IN HEIGHT ARE SHOWN ON PLANS. SUPPLY 24/48 PIER AT 20'-0" OC MAXIMUM UNDER GRADE BEAM.
   5. FOR ALL DUMPSTER ENCLOSURES, SCREEN WALLS, AND OTHER MASONRY FENCES NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 8'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS 'TYPE GB1' GRADE BEAM ON 24/48 DRILLED PIERS SPACED AT 15'-0" MAXIMUM. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #6 VERTICAL BARS SPACED AT 24" ON CENTER IN FULLY GROUTED CELLS.
   6. FOR ALL SPORTS FIELDS WHERE THE BACKSTOP WALL IS NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 4'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS CONCRETE FOOTING. FOOTING SHALL BE 1'-0" THICK x 3'-0" WIDE BEARING 3'-0" BELOW FINISHED GRADE. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #5 VERTICAL BARS SPACED AT 32" ON CENTER SUPPORTED BY CONCRETE STEM WALL EXTENDING FROM CONTINUOUS FOOTING. REINFORCE FOOTING WITH LONGITUDINAL (4) # 4 BARS AND TRANSVERSE #4 BARS AT 12" ON CENTER. AT STEM WALL PROVIDE #4 DOWELS AT 12" ON CENTER AND (3) #4 CONTINUOUS BARS AT EACH FACE.

STRUCTURAL STEEL

A. ROLLED SHAPES:
   1. ALL STRUCTURAL STEEL FOR ALL THE HORIZONTAL FRAMING MEMBER SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS OTHERWISE NOTED.
   2. ALL STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C WITH A MINIMUM YIELD OF 50 KSI, UNLESS OTHERWISE NOTED.
   3. ALL STRUCTURAL STEEL FOR PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
   4. ALL STRUCTURAL STEEL FOR ANGLES, PLATES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
   5. ALL EXPOSED STEEL TO BE HOT DIPPED GALVANIZED.
B. CONNECTIONS:
   1. THE DESIGN OF STRUCTURAL STEEL CONNECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE STEEL FABRICATOR. THE DETAILS AND CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
      - ALL WELD SIZES AND LENGTHS
      - ALL BOLT SIZES, LOCATIONS, QUANTITIES AND GRADES
      - ALL PLATE AND ANGLE SIZES, THICKNESS AND DIMENSIONS
      - ALL WORK POINT LOCATIONS AND RELATED INFORMATION.
   2. PROVIDE STANDARD BOLTED CONNECTIONS CONFORMING TO AISC BOLTED CONNECTIONS, USING ASTM A325 OR A490 BOLTS, FOR THE BEAM END SHEARS INDICATED IN THE DOCUMENTS. PROVIDE MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS.
   3. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS UNLESS OTHERWISE NOTED.
   4. SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
   5. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAM IN THE 15TH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD)
   6. WHERE BEAMS ARE TO RECEIVE HEADED SHEAR CONNECTORS, DESIGN THOSE BEAM CONNECTIONS FOR THE REACTION SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN THE CONNECTIONS TO SUPPORT 40 PERCENT OF THE MAXIMUM WEB SHEAR, V, FOR THE APPLICABLE MEMBER SIZE AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE 15TH EDITION OF THE AISC MANUAL.
   7. MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 5 ABOVE.
   8. WHERE FILLET WELD IS NOT SHOWN ON DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16"
C. WELDS:
   1. CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
   2. WELDS ON INDICATED ON DRAWINGS ARE TO BE FILLET ALL AROUND AS PRESCRIBED BY AISC SPECIFICATION, PROVIDE WELDING OF CONTINUOUS MEMBERS OF 2 INCHES OF 3/16" INCH FILLET STITCH WELDS AT 12 INCHES OC, STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED.
   3. FIELD PAINT ALL WELDS W/ "GALVILITE" BY Z.R.C. OR APPROVED EQUAL ARC WELDING ELECTRODES.
   4. METAL DECK - E60XX
   5. STRUCTURAL STUDS - E6022 OR E6011, 3/32" RODS.
   6. ALL OTHER - E70XX LOW HYDROGEN, 250 DEGREE MIN. OVEN TEMP.
   7. SIZE - ALL FILLETS ARE 1/16" LESS THAN MINIMUM THICKNESS TO BE WELDED.
   8. PROVIDE ULTRASONIC INSPECTION BY THE TESTING LABORATORY FOR ALL WELDS INDICATED AS PENETRATION WELDS.
D. HEADED SHEAR CONNECTORS:
   1. ALL HEADED SHEAR CONNECTORS SHALL BE 3/4 IN. DIAMETER STUDS x 4 1/2 IN. LONG AFTER WELDING AND SHALL CONFORM TO ASTM A108 UNLESS OTHERWISE NOTED.
   2. PLACE MAXIMUM NUMBER OF STUDS IN A SINGLE ROW PATTERN AND THE BALANCE IN A DOUBLE ROW PATTERN AS NECESSARY TO SATISFY THE AISC SPACING REQUIREMENT.
E. OPEN WEB STEEL JOISTS:
   1. AS APPLICABLE FOR THE OPEN WEB STEEL JOIST TYPE INDICATED ON THE DRAWINGS, CONFORMING TO SJI OR AISC, WHICHEVER IS MORE STRINGENT.
   2. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI.
   3. DESIGN ROOF JOISTS USING GOVERNING LOAD COMBINATIONS WITH UPLIFT PRESSURES INDICATED ON COMPONENT AND CLADDING PRESSURES TABLE.
F. STAIR NOTES:
   1. ALL STEEL PAN STAIRS SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED BY THE STRUCTURAL STEEL CONTRACTOR. THE STAIR MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THEIR PRODUCT, INCLUDING ALL ACCESSORIES AND CONNECTIONS. STAIRS SHALL BE DESIGNED FOR ALL LOADING CONDITIONS REQUIRED BY THE GOVERNING BUILDING CODES IN ADDITION TO ANY SPECIFIC LOADINGS SHOWN ON THE DRAWINGS. THE DESIGN, MANUFACTURE AND INSTALLATION OF ALL STEEL PAN STAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION.
   2. STAIR DESIGN CALCULATIONS, PREPARED AND SEALED BY A LICENSED STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW ALONG WITH THE NECESSARY SHOP DRAWINGS. SUBMITTALS WILL BE REVIEWED FOR INFLUENCE AND/OR LOAD APPLICATION TO THE SUPPORTING STRUCTURE, ONLY.
   3. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, IN ADDITION TO FIELD PAINT AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
G. STEEL DECK:

TYPE 1:
   1. PROVIDE COMPOSITE STEEL DECK 2" DEEP FORMED FROM 18 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 50, GALVANIZED WITH COATING DESIGNATION G60.
   2. PROVIDE COMPOSITE STEEL DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
      A. MOMENT OF INERTIA: I=0.558 INCHES^4 / FOOT WIDTH
      B. SECTION MODULUS: Sp=0.485 INCHES^3 / FOOT WIDTH
      C. SECTION MODULUS: Sn=0.500 INCHES^3 / FOOT WIDTH
   3. ATTACH COMPOSITE STEEL DECK TO STEELS SUPPORTS WITH 5/8" DIA. PUDDLE WELDS AND SHEAR CONNECTORS, 36/4 PATTERN. REFER TO PLANS FOR NUMBERS AND ARRANGEMENT OF SHEAR CONNECTORS. ATTACH SIDE LAPS WITH #10 SCREWS @ 18" OC.
   4. REINFORCE 3 1/2" CONCRETE OVER DECK W/ 4x4 - W4.0xW4.0.

TYPE 2:
   1. PROVIDE STEEL ROOF DECK 1 1/2" DEEP TYPE B 20 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 50, GALVANIZED COATING DESIGNATION G60.
   2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:\
      A. MOMENT OF INERTIA: I =0.201 INCHES^4 / FOOT WIDTH
      B. SECTION MODULUS: Sp =0.234 INCHES^3 / FOOT WIDTH
      C. SECTION MODULUS: Sn =0.247 INCHES^3 / FOOT WIDTH
   3. ATTACH STEEL ROOF DECK TO STEEL SUPPORTS AND AT SIDE LAPS AS FOLLOWS:
      A. POWDER-ACTUATED FASTENERS:
         - SUPPORTS: "HILTI" X-HSN24 AND "HILTI" X-ENP-19L15, 36/7 PATTERN
         - SIDELAP: #10 "TEK" @ 16" O.C. MAXIMUM
      B. SCREWS:
         - SUPPORTS: #12 "TEK" SCREWS, 36/7 PATTERN
         - SIDELAP: #10 "TEK" @ 16" O.C. MAXIMUM

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY AVILES ENGINEERING CORPORATION DATED MAY 2025 REPORT NO. REPORT NO. G103-25C (Draft) IS AVAILABLE FOR REVIEW.
B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.
C. SUB-GRADE PREPARTION:
   a. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED BY THE GEOTECHNICAL REPORT. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.
   b. EXCAVATE EXISTING SOILS AS REQUIRED TO REMOVE ALL EXISTING VEGETATION, ROOTS AND DELETERIOUS MATERIALS FROM THE PROPOSED BUILDING AREA, AND AS REQUIRED BY GEOTECHNICAL REPORT. THE CLEARING SHOULD EXTEND BEYOND THE BUILDING EDGES. ONCE ROUGH GRADE IS ESTABLISHED, THE EXPOSED SURFACE SHOULD BE PROOF-ROLLED. ANY SOFT POCKETS OF SOFT OR WEAK SOILS ENCOUNTERED SHOULD BE REMOVED. BUILD BUILDING PAD AS REQUIRED BY GEOTECHNICAL REPORT.
   c. BUILDING PAD UNDER SLAB ON GRADE SHALL BE PREPARED TO PROVIDE AN OWNER APPROVED PVR OF 1" OR LESS BASED ON RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
D. FOUNDATIONS HAVE BEEN DESIGNED FOR
   1) ALLOWABLE BEARING CAPACITY OF 3,600 POUNDS PER SQUARE FOOT (PSF) FOR SUSTAINED LOADS AND
   2)AN ALLOWABLE BEARING CAPACITY OF 5,400 PSF FOR TOTAL LOADS
E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

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Notes

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FRED DALLY
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PROFESSIONAL ENGINEER
09/24/2025

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Client/Project
FORT BEND ISD
FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL
19101 CHIMNEY ROCK RD, FRESNO, TX 77545

Title
GENERAL STRUCTURAL CRITERIA

Project No. 214001246
Scale 1 1/2" = 1'-0"
Revision
Drawing No.
S101-RPES

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ORIGINAL SHEET - ARCH E1

INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TOPERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBILITIES:
   1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.
   2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.
   3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.
   4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.
   5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.
   6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.
   7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.
C. SPECIAL INSPECTIONS:
   1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. HE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.
   2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE INTERNATIONAL BUILDING CODE, SECTION 1704.
   3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCE STANDARD	FREQUENCY

STRUCTURAL REINFORCING STEEL:
- a. HIGH STRENGTH BOLTING
  - BEARING TYPE CONNECTIONS: PERIODIC
  - SLIP CRITICAL CONNECTIONS: PERIODIC
- b. WELDING OF STRUCTURAL STEEL:
  - FULL PENETRATION GROOVE WELDS: CONTINUOUS
  - MULTI-PASS FILLET WELDS: CONTINUOUS
  - SINGLE-PASS FILLET WELDS > 5/16": CONTINUOUS
  - SINGLE PASS FILL WELDS <= 5/16": PERIODIC
  - FLOOR AND DECK WELDS: PERIODIC
- c. WELDING OF REINFORCING STEEL
  - WELDABILITY OF STEEL OTHER THAN ASTM A706: PERIODIC
  - SHEAR REINFORCEMENT: CONTINUOUS
  - OTHER REINFORCEMENT: PERIODIC
- d. INSPECTION OF STEEL FRAME AND JOISTS:
  - DETAILS SUCH AS BRACING AND STIFFENING: PERIODIC
  - MEMBER SIZES AND LOCATION: PERIODIC
  - APPLICATION OF CONNECTION DETAIL: PERIODIC
- e. CONCRETE CONSTRUCTION:
  - REINFORCING STEEL: PERIODIC (RANDOMLY AT 20%)
  - CONCRETE MIX DESIGN: PERIODIC AT EACH CONCRETE POUR
  - SAMPLING OF FRESH CONCRETE: CONTINUOUS (SEE NOTE 1)
  - MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES: PERIODIC AT EACH POUR
  - INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION OF TECHNIQUES: CONTINUOUS
  - INSPECTING OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS: PERIODIC
- f. SOILS (SLAB ON GRADE):
  - VISUAL OBSERVATIONS: PERIODIC
  - PROOF ROLLING OBSERVATION: CONTINUOUS
  - MOISTURE CONDITIOINING & RECOMPACTION: CONTINUOUS OR PERIODIC (ONE DENSITY TEST FOR EACH 2,000 SF)
  - DURING FILL PLACEMENT: CONTINUOUS OR PERIODIC
  - EVALUATION OF IN PLACE DENSITY FILL: CONTINUOUS OR PERIODIC
- g. PIERS:
  - OBSERVE DRILLING OPERATIONS AND COMPLETE RECORD OF DRILLING: CONTINUOUS
  - VERIFY PLACEMENTS LOCATIONS AND PLUMBNESS, LNEGTH, EMBEDMENT AND ADEQUATE BEARING STRENGTH CAPACITY, CONFIRM PIER DIAMETER, REINFORCING STEEL (RE: CONCRETE ABOVE): CONTINUOUS
- h. MASONRY:
  - VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS: PERIODIC
  - AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
    1. PROPORTIONS OF SITE-PREPARED MORTAR: PERIODIC
    2. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
    3. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES: PERIODIC
  - PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:
    1. GROUT SPACE: PERIODIC
    2. GRADE, TYPE AND SIZE REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES: PERIODIC
    3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES: PERIODIC.
    4. PROPORTIONS OF SITE-PREPARED GROUT: PERIODIC.
    5. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
  - VERIFY DURING CONSTRUCTION:
    1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS: PERIODIC.
    2. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION: PERIODIC
    3. WELDING OF REINFORCMENT: CONTINUOUS
    4. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)): PERIODIC
  - OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS: PERIODIC

NOTES:

- PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPEC'D VALUE.
- ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE PULL TESTED TO 110% FOR NO LESS THAN 3 MIN.
- ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
- CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
- PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

MASONRY

A. CONSTRUCT REINFORCED MASONRY IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES", ACI 530.1/ASC36. MASONRY ALLOWABLE DESIGN STRESSES ARE BASED UPON REQUIRING NO SPECIAL INSPECTION.
B. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 MINIMUM FACE THICKNESS SHALL BE 1.25". ALL WALLS ARE LIGHT WEIGHT BLOCKS (105 PCF OR LESS).
C. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL BOLTS USED FOR ANCHORAGE SHALL BE ASTM A307 HEADED BOLTS.
D. MASONRY STRENGTH (F'M) AT 28 DAYS SHALL BE A MINIMUM OF 2,000 PSI. USE TYPE M OR S MORTAR. MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. GROUT SHALL CONFORM TO ASTM C476. GROUT STRENGTH SHALL BE AT LEAST 2800 PSI.
E. PROVIDE MORTAR BED OR WEB BETWEEN GROUTED BED AND HOLLOW CELL. USE FULL HEAD AND BED JOINTS.
F. UNLESS SHOWN ON DETAILS, PROVIDE #9 LADDER OR TRUSS HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. PROVIDE 2 #5 AT ALL JAMBS AND ENDS OF WALLS.
G. GROUT SOLID THE FIRST CELL ON EITHER SIDE OF DOOR OPENINGS, UNLESS OTHERWISE NOTED. PROVIDE 8" U-BLOCK CMU LINTEL WITH 8" BEARING EACH END; REINFORCE WITH (2) # 4 BOTTOM.
H. EMBED ALL BOLTS IN FULL GROUTED CELL. PLACE BOLTS IN SAME VERTICAL CELL AS REINFORCING IF POSSIBLE. MINIMUM EMBEDDED LENGTH IS ONE-HALF WIDTH OF CELL.
I. // UNLESS SHOWN ON DETAILS, PROVIDE (2) #5 HORIZONTAL REINFORCEMENT IN FULLY GROUTED CELL AT 48" OC VERTICALLY.
J. GROUT SOLID THE FIRST CELL ON EACH LEVEL & ROOF. REINFORCE WITH HORIZONTAL AS PER NOTE 1. RE: TO DETAIL 9 ON THE TYPICAL CMU DETAIL SHEET.

REINFORCEMENT TABLE: NON-LOAD BEARING CMU WALL (CMU 2.0-60, 105 PCF)

INTERIOR WALLS = 10 PSF				
UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
14'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
16'-0"	#4 @ 40" OC	#4 @ 48" OC	#4 @ 48" OC	
18'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
20'-0"	#4 @ 24" OC	#4 @ 40" OC	#4 @ 48" OC	
22'-0"	#4 @ 16" OC	#5 @ 32" OC	#4 @ 48" OC	
24'-0"		#5 @ 32" OC	#4 @ 40" OC	
26'-0"		#5 @ 24" OC	#4 @ 32" OC	
28'-0"		#6 @ 32" OC	#5 @ 40" OC	
30'-0"		#6 @ 24" OC	#5 @ 32" OC	
32'-0"		#6 @ 24" OC	#6 @ 32" OC	
34'-0"			#6 @ 24" OC	
36'-0"			#7 @ 32" OC	
38'-0"			#7 @ 32" OC	#7 @ 32" OC
40'-0"				#7 @ 32" OC
EXTERIOR WALLS = 30 PSF				
UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 24" OC	#4 @ 32" OC	#4 @ 48" OC	
14'-0"	#4 @ 16" OC	#4 @ 32" OC	#4 @ 32" OC	
16'-0"	#6 @ 16" OC	#5 @ 24" OC	#5 @ 40" OC	
18'-0"		#5 @ 16" OC	#5 @ 24" OC	
20'-0"		#6 @ 16" OC	#5 @ 24" OC	
22'-0"		#6 @ 8" OC	#5 @ 16" OC	
24'-0"			#6 @ 16" OC	
26'-0"			#7 @ 16" OC	
28'-0"			#7 @ 8" OC	
30'-0"			#8 @ 8" OC	

NOTES:

1. DEFINITIONS:
   A. "H" CLEAR WALL HEIGHT, FEET, BETWEEN CONNECTIONS TO STRUCTURE.
   B. "U.R." UNREINFORCED WALL (NO VERTICAL REINFORCEMENT IS REQUIRED, EXCEPT AS DETAIL ON DRAWINGS AT OPENINGS, ETC.)
   C. "N.A." NOT APPLICABLE. THICKER WALL REQUIRED FOR SPAN.
2. SPECIFIED REINFORCING STEEL SHALL BE PLACED IN CENTER OF WALL. (Fy=60 ksi)
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR HORIZONTAL REINFORCING REQUIREMENTS.
4. THIS TABLE SHALL ONLY BE USED FOR VERTICALLY SPANNING C.M.U. WALLS.
5. SEE TYPICAL DETAILS FOR BRACING REQUIREMENTS AT THE TOP/ENDS OF THE WALL AND DOWELS TO THE STRUCTURE. REINFORCING STEEL SHALL BE CENTERED IN THE CMU WALL BY USING BAR POSITIONERS AT 8'-0" OC VERTICALLY.
6. SPLICING OF VERTICAL STEEL: SEE TYPICAL DETAIL FOR REQUIRED SLAP SPLICE LENGTHS.
7. FOR USE WITH PORTLAND CEMENT / LIME MORTAR.

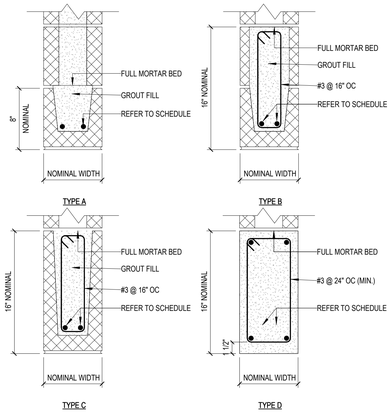
CONCRETE MASONRY UNIT (CMU) LINTEL SCHEDULE

A. PROVIDE 8" MINIMUM BEARING EACH END FOR CMU LINTELS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
B. CURVE CMU LINTEL AND REINFORCING FOR THE RADIUS OF THE WALL WHERE OCCURRING AND PROVIDE 1'-4" MINIMUM BEARING EACH END.

SPAN	6x8	6x16	8x8	8x16	10x8	10x16	12x8	12x16
3-4	1-#3		1-#3		2-#3		2-#3	
4-0	1-#4		2-#3		2-#3		2-#4	
4-8	2-#4		2-#4		2-#4		2-#4	
5-4	2-#4		2-#4		2-#4	2-#3	2-#5	
6-0	2-#4	1-#4		2-#3	2-#5	2-#4	2-#5	2-#4
6-8		1-#5		2-#4		2-#4	2-#6	2-#4
7-4		1-#5		2-#4		2-#4		2-#5
8-0		1-#6		2-#4		2-#5		2-#5
8-8		1-#6		2-#5		2-#5		2-#6
9-4		1-#7		2-#5		2-#6		2-#6

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 7 5/8".
3. REINFORCEMENT SHALL PROJECT A MINIMUM OF 6" ONTO THE BEARING.
4. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM f'm=1500 psi.
5. LINTELS SCHEDULED AS 16" HIGH MAY BE EITHER TYPE "B" OR TYPE "C" AS DETAILED BELOW.
6. PRECAST CONCRETE LINTELS AS SHOWN MAY BE USED WITH ARCHITECT'S APPROVAL, MINIMUM f'c = 3000 psi.

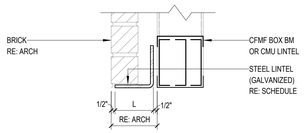


LOOSE VENEER LINTEL SCHEDULE

MASONRY OPENING	SIZE	DETAIL
LESS THAN 4'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
4'-0" BUT LESS THAN 5'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
5'-0" BUT LESS THAN 6'-0"	"L" X 5" X 1/4" BENT PL (LLH)	J
6'-0" BUT LESS THAN 8'-6"	"L" X 7" X 5/16" BENT PL (LLH)	J
8'-6" BUT LESS THAN 10'-0"	"L" X 7" X 3/8" BENT PL (LLH)	J

NOTES:

1. SEE DETAIL BELOW FOR TYPICAL LOOSE LINTEL HORIZONTAL LEG LENGTH "L". ALL DIMENSIONS PROVIDED MUST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
2. PROVIDE 8" MINIMUM BEARING EACH END FOR STEEL LOOSE LINTELS.
3. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
5. HOT DIP GALVANIZE ALL LINTELS AFTER FABRICATION.



SHORING REQUIREMENTS

A. DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY SHORING AND BRACING TO SAFELY SUPPORT THE EXISTING WALLS, FLOOR SLABS AND ROOF WHERE NEW OPENINGS ARE TO BE CUT INTO THE EXISTING WHERE LOAD-BEARING ELEMENTS ARE TO BE REMOVED.
B. SUBMIT CALCULATIONS, SHORING PROCEDURES AND DETAILS PREPARED, AND SEALED, BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF TEXAS, TO THE ARCHITECT FOR REVIEW PRIOR TO PRECEDING WITH THIS WORK.
C. SHORING AND BRACING WORK SHALL BE PERFORMED BY A SHORING CONTRACTOR WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN SIMILAR TYPE OF WORK.
D. PRIOR TO START OF WORK, ESTABLISH AND DOCUMENT ELEVATIONS OF THE EXITING CONSTRUCTION AT INTERVALS ALONG THE WALLS TO BE REMOVED. CONTINUOUSLY MONITOR THE ELEVATION DURING DEMOLITION AND CONSTRUCTION OPERATIONS. METHOD OF SHORING SHOULD HAVE PROVISIONS FOR VERTICAL ADJUSTMENT TO MAINTAIN ELEVATIONS OF EXISTING CONSTRUCTION.

DEMOLITION

A. CONDUCT DEMOLITION OPERATIONS IN EXTREMELY CAREFUL MANNER IN ORDER TO PREVENT ANY DAMAGES TO ALL EXISTING CONSTRUCTION AND TO MINIMIZE INTERFERENCE WITH ADJACENT "STRUCTURES"
B. PREVENT THE MOVEMENT, SETTLEMENT, DAMAGE OR INJURY TO ADJACENT STRUCTURES, PROVIDE & PLACE BRACING OR SHORING & BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE ADJACENT STRUCTURES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, OR INJURY.
C. CEASE OPERATIONS & NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SAFETY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT EXISTING STRUCTURES PROPERLY. DO NOT RESUME OPERATIONS UNTIL THE FULL SAFETY IS RESTORED.
D. PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT SERVICES, SIDEWALKS, DRIVEWAYS & TREES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. REPAIR DAMAGE PROMPTLY AT NO COST TO THE OWNER.
E. DEMOLISH INDICATED STRUCTURES & APPURTENANCE IN AN ORDERLY AND CAREFUL MANNER.
F. PERFORM DEMOLITION IN ACCORDANCE WITH THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
G. REMOVE FOUNDATION WALLS & FOOTINGS AS INDICATED ON DEMOLITION DRAWINGS TO A MINIMUM 3' FEET BELOW FINISH GRADE.
H. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT INDICATED, AT NO COST TO THE OWNER OR THE ARCHITECT/ENGINEER.
I. REPAIR DAMAGE TO ADJACENT STRUCTURES CAUSED AS THE RESULT OF THIS WORK AT NO COST TO THE OWNER OF THE ARCHITECT/ENGINEER.

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Texas Registered Engineering Firm F-003426
D + A PROJECT 24-291-00

Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	JT	AR	LMM	2025.04.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

09/24/2025

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL

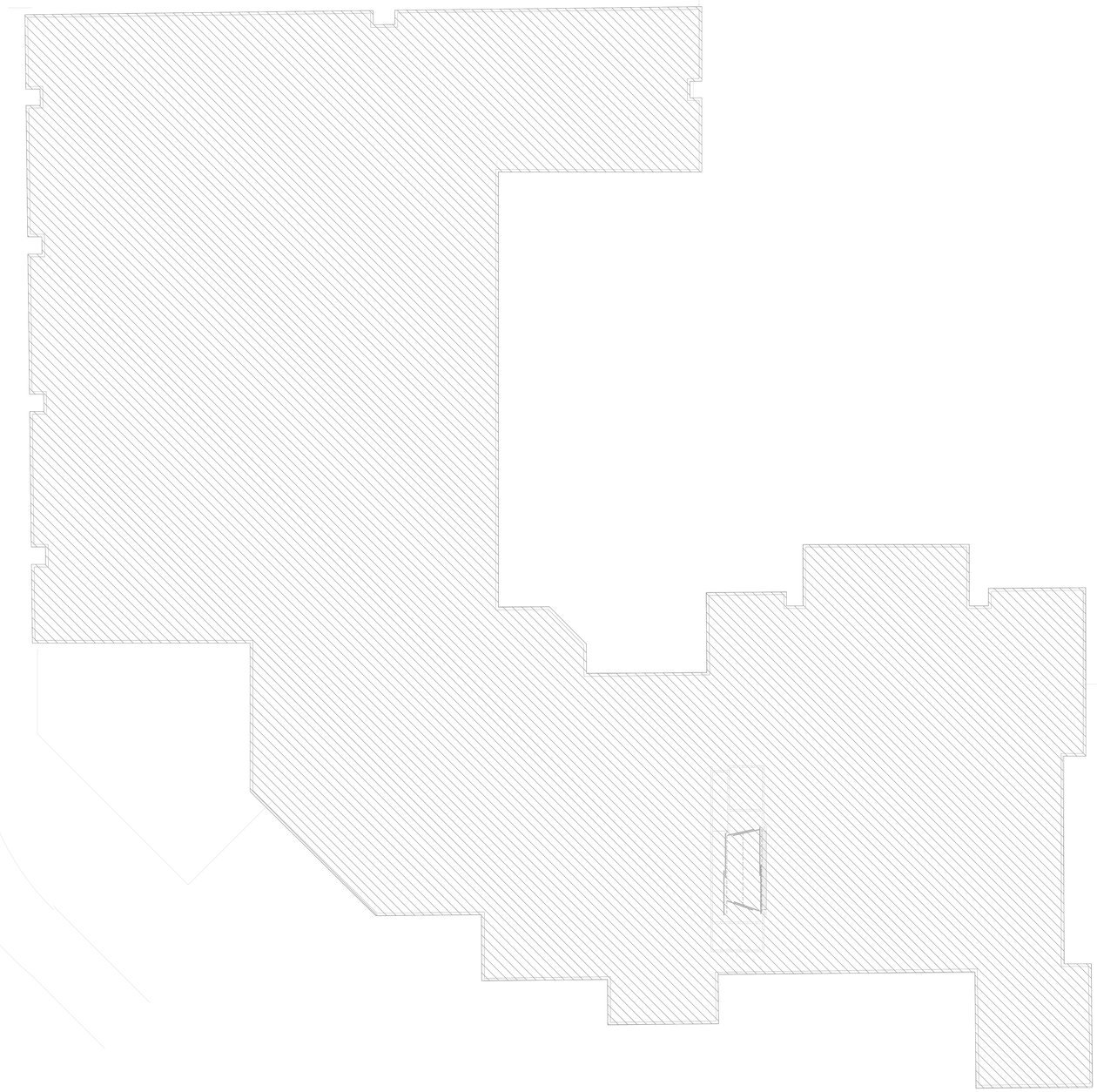
19101 CHIMNEY ROCK RD, FRESNO, TX 77545

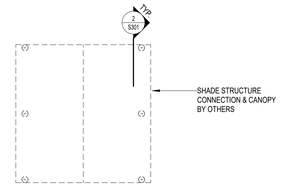
Title
GENERAL STRUCTURAL CRITERIA

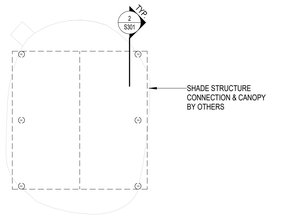
Project No.	Scale
214001246	1 1/2" = 1'-0"
Revision	Drawing No.

S102-RPES

<Pick location in Project Information>
9/23/2025 7:02:44 AM
ORIGINAL SHEET - ARCH E1







FOUNDATION NOTES:

1. DATUM ELEVATION <0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL.
   ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION <0' - 0">.

2. "18/36" (EXAMPLE) INDICATES DRILLED PIER SHAFT AND BELL SIZE
   ALL INTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-8"> TYP. UON.
   ALL EXTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-8"> TYP. UON.
   ALL INTERMEDIATE PIERS ARE CENTERED BETWEEN GRIDS ON THE GRADE BEAM, TYP UON.
   FOR DRILLED PIER SCHEDULE & DETAILS **RE: 1 / S301**

3. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH. PRIOR TO CONSTRUCTION.

1 COMPOSITE FOUNDATION PLAN
1" = 20'-0"

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D + A PROJECT 24-291-00

Notes

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	JT	AR	LMM	2025.04.11

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09/24/2025

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROCK RD, FRESNO, TX 77545

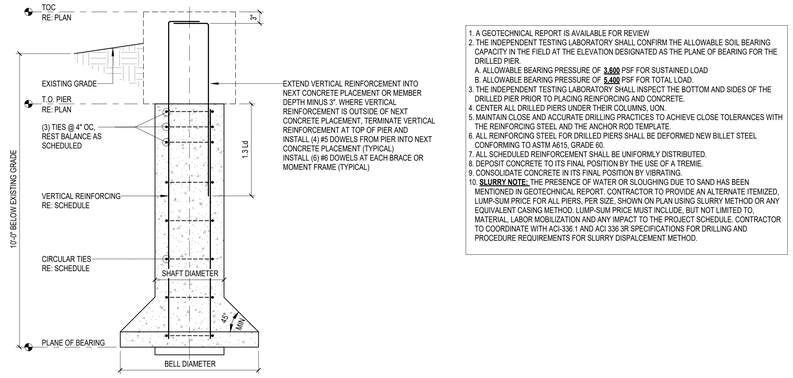
Title
FOUNDATION PLAN - COMPOSITE

Project No.	Scale
214001246	As indicated

Revision	Drawing No.
	S201-RPES

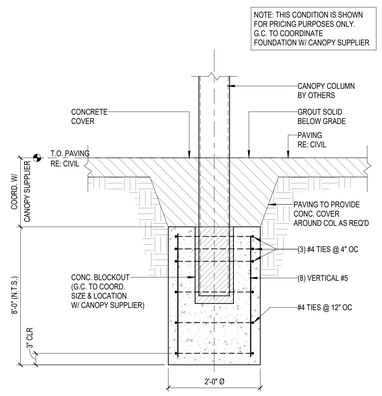
ORIGINAL SHEET - ARCH E1

DRILLED PIER SCHEDULE					
SHAFT DIAMETER	VERTICAL REINFORCING		TIES		
	NUMBER	SIZE	SIZE	SPACING (IN)	
24	6	#6	#4	12	



1. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW
2. THE INDEPENDENT TESTING LABORATORY SHALL CONFIRM THE ALLOWABLE SOIL BEARING CAPACITY IN THE FIELD AT THE ELEVATION DESIGNATED AS THE PLANE OF BEARING FOR THE DRILLED PIER.
   A. ALLOWABLE BEARING PRESSURE OF **3,600** PSF FOR SUSTAINED LOAD
   B. ALLOWABLE BEARING PRESSURE OF **5,400** PSF FOR TOTAL LOAD.
3. THE INDEPENDENT TESTING LABORATORY SHALL INSPECT THE BOTTOM AND SIDES OF THE DRILLED PIER PRIOR TO PLACING REINFORCING AND CONCRETE.
4. CENTER ALL DRILLED PIERS UNDER THEIR COLUMNS, UON.
5. MAINTAIN CLOSE AND ACCURATE DRILLING PRACTICES TO ACHIEVE CLOSE TOLERANCES WITH THE REINFORCING STEEL AND THE ANCHOR ROD TEMPLATE.
6. ALL REINFORCING STEEL FOR DRILLED PIERS SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
7. ALL SCHEDULED REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED.
8. DEPOSIT CONCRETE TO ITS FINAL POSITION BY THE USE OF A TREMIE.
9. CONSOLIDATE CONCRETE IN ITS FINAL POSITION BY VIBRATING.
10. **SLURRY NOTE:** THE PRESENCE OF WATER OR SLOUGHING DUE TO SAND HAS BEEN MENTIONED IN GEOTECHNICAL REPORT. CONTRACTOR TO PROVIDE AN ALTERNATE ITEMIZED, LUMP-SUM PRICE FOR ALL PIERS, PER SIZE, SHOWN ON PLAN USING SLURRY METHOD OR ANY EQUIVALENT CASING METHOD. LUMP-SUM PRICE MUST INCLUDE, BUT NOT LIMITED TO, MATERIAL, LABOR MOBILIZATION AND ANY IMPACT TO THE PROJECT SCHEDULE. CONTRACTOR TO COORDINATE WITH ACI-336.1 AND ACI 336.3R SPECIFICATIONS FOR DRILLING AND PROCEDURE REQUIREMENTS FOR SLURRY DISPALCEMENT METHOD.

1 DRILLED PIER SCHEDULE
3/4" = 1'-0"



2 TYPICAL AVADEK CANOPY FOUNDATION (PIER)
3/4" = 1'-0"

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09/24/2025

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2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS - ROSA PARKS ELEMENTARY SCHOOL

19101 CHIMNEY ROCK RD, FRESNO, TX 77545

Title
FOUNDATION SCHEDULE & DETAILS

Project No.	Scale
214001246	3/4" = 1'-0"

Revision | Drawing No.

S301-RPES

ORIGINAL SHEET - ARCH E1

ABBREVIATIONS:

#	NUMBER, POUNDS
%	PERCENT
&	AND
'	FOOT, FEET
"	INCH
@	AT
Ø	DIAMETER
℄	CENTER LINE
A	
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL TILE
ADA, ADAAG	AMERICANS WITH DISABILITIES ACT GUIDELINES
ADD	ADDENDUM
ADJ	ADJUSTABLE, ADJACENT
ADMIN	ADMINISTRATION, ADMINISTRATIVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERES
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY, APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AVG	AVERAGE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WALL PANEL
B	
BD	BOARD
BIT	BITUMINOUS
BK	BRICK
BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BO	BOTTOM OF
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF
C	
CAB	CABINET
CB	CHALKBOARD, CARPET BASE
CCD	COUNTER COILING DOOR
CF	CURTAIN FABRIC
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR, COLOR, COOLER
CLRM	CLASSROOM
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CS	CAST STONE, COUNTER SHUTTER
CT	CERAMIC TILE
CUST	CUSTODIAL
CW	CURTAIN WALL
D	
D	DEPTH, DEEP
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION, DIVIDE
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EP	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	EC CETERA
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED CEILING
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE & EQUIPMENT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FLDG PTN	FOLDING PARTITION
FLR	FLOOR
FO	FACE OF, FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBER REINFORCED PLASTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE-RETARDANT TREATED
FRTW	FIRE-RETARDANT TREATED WOOD
FT	FEET
FVC	FIRE VALVE CABINET
FWP	FABRIC WRAPPED PANELS
G	
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GL	GLASS
GLZ	GLAZING, GLAZED
GSU	GLAZED STRUCTURAL UNIT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
HB	HOSE BIBB
HC	HOLLOW CORE
HIWC	HIGH IMPACT WALL COVERING
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HR	HOUR, HOURS
HRDW	HARDWARE
HT	HEIGHT
HVAC	HEATING, VENTING & COOLING
HWD	HARD WOOD
I	
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIMENSION, INSIDE DIAMETER
IN	INCH, INCHES
INFO	INFORMATION
INSUL	INSULATION, INSULATING
INSUL GL	INSULATING GLASS
INT	INTERIOR
IPC	INTERNATIONAL PLUMBING CODE
IRWC	IMPACT-RESISTANT WALL COVERING
J	
JAN	JANITOR
JT	JOINT
L	
L	ANGLE, ANGLE SHAPE
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT
LH	LEFT HAND
LSD	LIQUID SOAP DISPENSER
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBH	MOP/BROOM HOLDER
MCJ	MASONRY CONTROL JOINT (CMU)
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEJ	MASONRY EXPANSION JOINT (BRICK MASONRY)
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFR REC	REC MANUFACTURER'S RECOMMENDATIONS
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING, MOTOR OPERATED
MOD	MODIFY
MOD BIT	MODIFIED BITUMEN
MS	MASONITE
MSB	MOP SERVICE BASIN
MTD	MOUNTED, MOUNTING
MTL	METAL
MU	MASONRY UNIT
MWK	MILLWORK
N	
N	NORTH
NA	NON APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER(S)
NOM	NOMINAL
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NTS	NOT TO SCALE
O	
OC	ON CENTER
OCC	OCCUPANCY
OCG	OVERHEAD COILING GRILL
OCS	OVERHEAD COILING FIRE SHUTTER
OD	OUTSIDE DIAMETER/DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
P	
P	PAINT
PAR	PARALLEL, PARAPET
PC	POLISHED CONCRETE
PCP	PORTLAND CEMENT PLASTER
PERP	PERPENDICULAR
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT, PAINTED
PR	PAIR
PRE-K	PREKINDERGARTEN
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PAINT, PAINTED
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
R	
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE, RUBBER BASE
RBF	RUBBER FLOORING / RUBBER STAIRS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE:	REFER
REBAR	REINFORCING BAR
REF	REFER, REFERENCE, REFRIGERATOR
REINF	REINFORCED, REINFORCEMENT
REQD	REQUIRED
REV	REVISION(S)
RF	RESILIENT FLOORING
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
RP	RESIN PANELS
RS	ROLLER SHADES
RSF	RESINOUS FLOORING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SC	SOLID CORE, STAGE CURTAIN, SEALED CONCRETE
SCHED	SCHEDULE
SCJ	SAWN CONTROL JOINT
SCR	SHOWER CURTAIN ROD
SCWD	SOLID CORE WOOD DOOR
SD	SMOKE DETECTOR
SDT	STATIC DISSIPATIVE TILE
SECT	SECTION
SF	SQUARE FEET, STOREFRONT
SFC	STRECTCHED FABRIC CEILING
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOC
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SOD	SECTIONAL OVERHEAD DOOR
SOSG	SELF OPENING SECURITY GRILL
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SYM	SYMETRICAL
T	
T	CERAMIC / PORCELAIN TILE / GLASS TILE
TAS	TEXAS ACCESSIBILITY STANDARDS
TB	TACKBOARD, CERAMIC / PORCELAIN TILE BASE
TEL	TELEPHONE
TEMP	TEMPERATURE
THRU	THROUGH
TLT	TOILET
TO	TOP OF
TOC	TOP OF CURB, TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TW	TACKWALL
TYP	TYPICAL
TZ	TERRAZO
U	
UL	UNDERWRITER'S LABORATORY
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
UR	URINAL
UR SCRN	URINAL SCREEN
UTIL	UTILITY
V	
V	VOLTS
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING
W	
W	WIDTH, WEST
W/	WITH
W/O	WITHOUT
WB	WINDOW BLINDS
WC	WATER CLOSET, WALL COVERING
WD	WOOD / WOOD VENEER
WDF	WOOD FLOORING
WDW	WINDOW
WF	WINDOW FILM
WH	WATER HEATER
WL	WIND LOAD
WP	WORKING POINT, WALL PAD
WS	WOOD STAIN
WT	WEIGHT
WWF	WELDED-WIRE FABRIC

MATERIAL LEGEND:

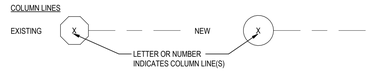
RENOVATION GRAPHICS:

DOOR SWING INDICATION

WALL INDICATION (RE: WALL TYPES FOR WALL CONSTRUCTION)

REFERENCE TAGS AND SYMBOLS:

COLUMN LINES

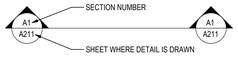


NORTH ARROW

DRAWING / DETAIL TITLE

NOTE:
DRAWING TITLE MAY NOT APPEAR ON LARGE SCALE DETAIL DRAWINGS

BUILDING SECTION TAG



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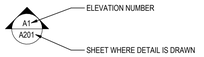
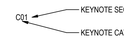


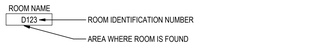
KEYNOTES



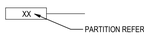
TEXT LEADER

DIMENSION LINE

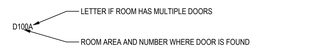
ROOM NAME AND NUMBER



PARTITION TAG



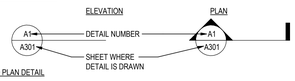
DOOR TAG



FRAME TAG

ELEVATION DATUM

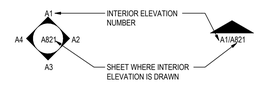
WALL SECTION / DETAIL TAG



ENLARGED PLAN DETAIL

RE: NOTES FOR DETAIL CUTS

INTERIOR ELEVATION TAG



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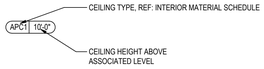

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% ISSUE FOR BID AND PERMIT			2025.09.24

File Name: N/A	Author	Designer	Checker	11/20/15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project

FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

19101 CHIMNEY ROCK RD, FRESNO, TX 77545

Title

ABBV., MATERIAL LEGEND AND SYMBOLS

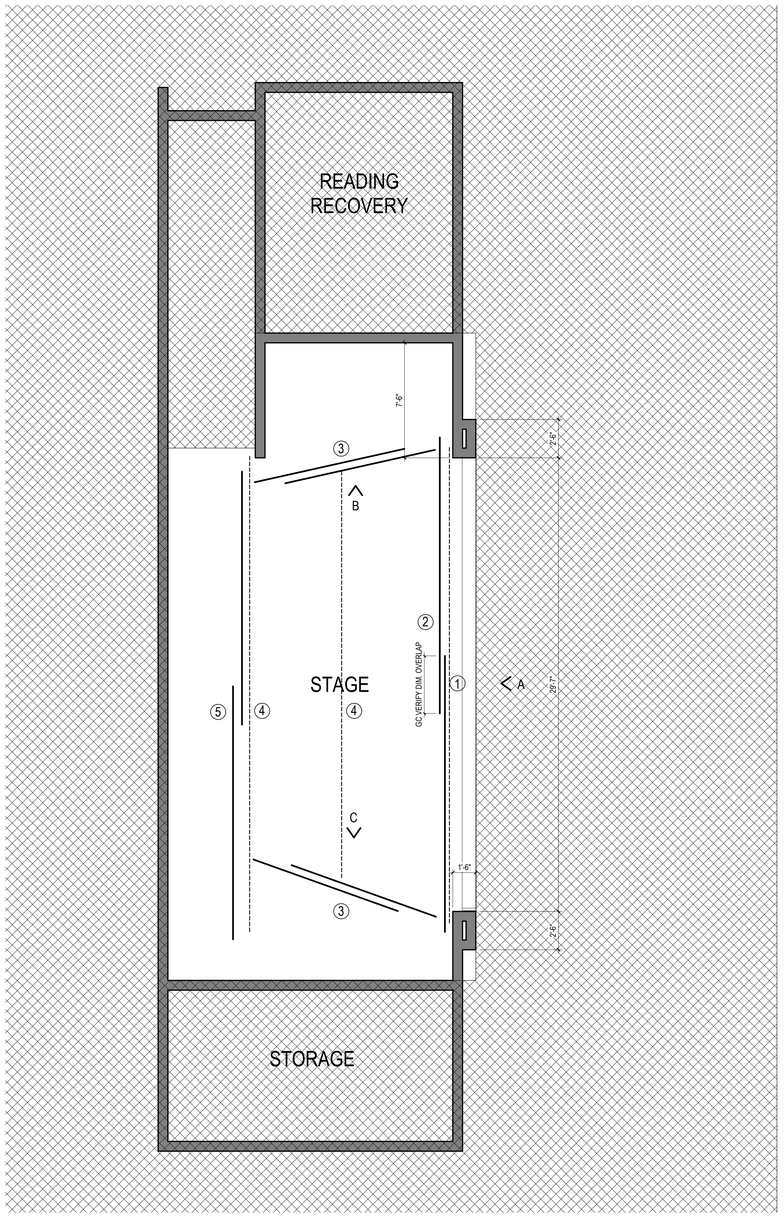
Project No.	Scale
214001246	As indicated

Revision | Drawing No.

A001 - RPES

<Pick location in Project Information>
10/2/2025 4:30:29 AM

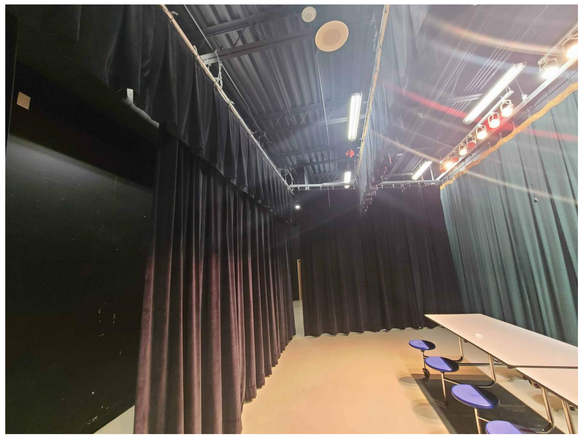
ORIGINAL SHEET - ARCH E1



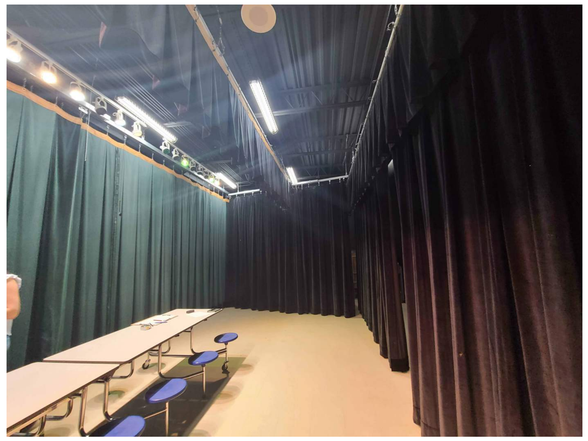
A1 A101 **NEW STAGE CURTAIN ENLARGED PLAN**
1/4" = 1'-0"

RPES
- A

A



B



C

CONSTRUCTION LEGEND

- NEW STAGE CURTAIN
- NEW VALANCE / BORDER CURTAIN
- EXISTING WALLS TO REMAIN
- AREA OUTSIDE OF SCOPE OF WORK
- < X PHOTOGRAPH LOCATION, DIRECTION & NUMBER

KEYED NOTES

1. PROVIDE NEW VALANCE CURTAIN APPROX. 3'-0" H. (+/-) GC VIF
2. PROVIDE NEW FRONT CURTAINS APPROX. 11'-03" H. (+/-) GC VIF
3. PROVIDE NEW SIDE LEG CURTAINS APPROX. 11'-0" H. (+/-) GC VIF
4. PROVIDE NEW BORDER CURTAINS APPROX. 3'-0" H. (+/-) GC VIF
5. PROVIDE NEW REAR TRAVELER CURTAINS APPROX. 11'-0" H. (+/-) GC VIF

Stantec

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File Name: N/A	Author	Designer	Checker	12/08/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
DANIELLE DUNN
28298
STATE OF TEXAS

Client/Project Logo

2023 BOND FORT BEND INDEPENDENT SCHOOL DISTRICT

Client/Project
FORT BEND ISD

FBISD BP022 GYM RENOVATIONS AND ADDITIONS

19101 CHIMNEY ROCK RD, FRESNO, TX 77545

Title
ENLARGED STAGE CURTAIN PLAN - ALTERNATE #4

Project No.	Scale
214001246	1/4" = 1'-0"

Revision | Drawing No.

A101 - RPES - A

<Plot Location in Project Information>
12/5/2025 4:40:22 AM

ORIGINAL SHEET - ARCH E1