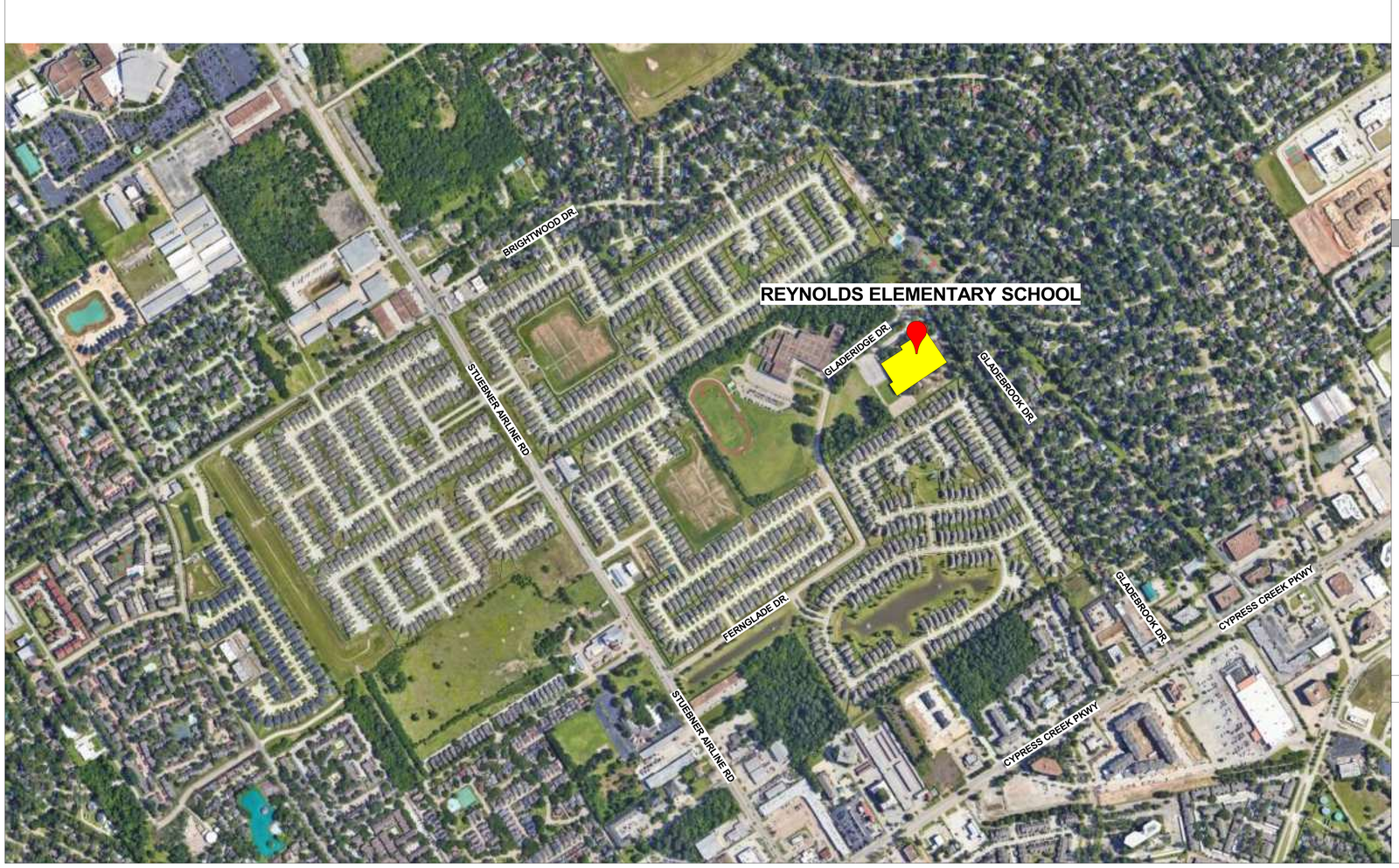
REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

3975 Gladeridge Dr, Houston, TX 77068

ISSUE FOR PROPOSALS

10.22.2025



DRAWING INDEX

SHEET NUMBER	SHEET NAME
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SV-02	SURVEY
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C102	OVERALL CIVIL SITE PLAN
C103	DEMOLITION PLAN
C104	FIRE ACCESS PLAN
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C305	DRAINAGE CALCULATIONS
C306	DETENTION POND PLAN
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AD-201	COMPOSITE FLOOR PLAN - DEMO
AD-501	EXTERIOR WALL - DEMO
AD-700	ROOF PLAN - DEMO
AD-701	EXISTING ROOF PHOTOS
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A-401	ENLARGED RESTROOM PLANS
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A-502	ELEVATIONS, SECTIONS AND DETAILS - EXTERIOR WALL
A-503	ELEVATIONS, SECTIONS AND DETAILS - CANOPY
A-504	ELEVATIONS, SECTIONS AND DETAILS - CANOPY
A-601	INTERIOR ELEVATION TACKBOARDS
A-701	ROOF PLAN
A-702	MANUFACTURER ROOF DETAILS
A-703	RCP
A-900	FINISH AND DOOR SCHEDULES
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P4.01	PLUMBING PLANS - ENLARGED
P4.02	PLUMBING PLANS - ENLARGED
P4.03	PLUMBING PLANS - ENLARGED
P5.01	PLUMBING DETAILS
P6.01	PLUMBING SCHEDULES
TECHNOLOGY	
T2.01	TECHNOLOGY PLANS

SCHOOLS ADDRESS

REYNOLDS ELEMENTARY SCHOOL
3975 GLADERIDGE DR. HOUSTON, TX 77068

IN2 ARCHITECTURE

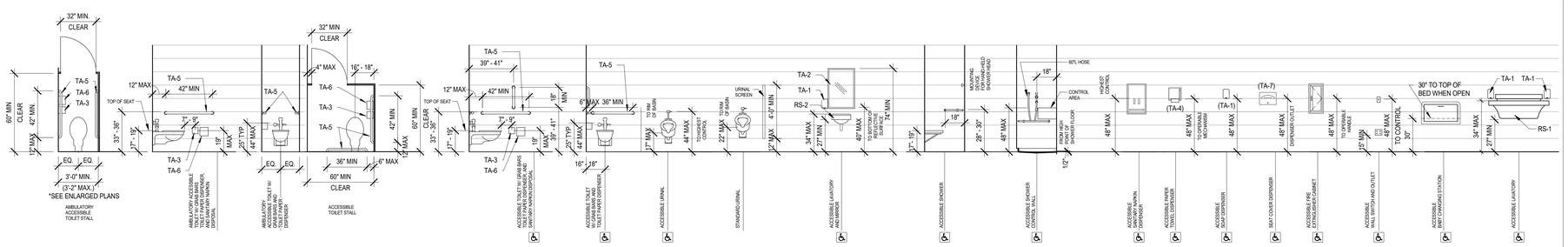
p: 972-427-1222
12222 Merit Drive, Suite 1140 Dallas, Texas 75251

Coleman Partners ARCHITECTS

p: 832-947-1038
3701 Kirby Drive, Suite 988 Houston, TX 77098

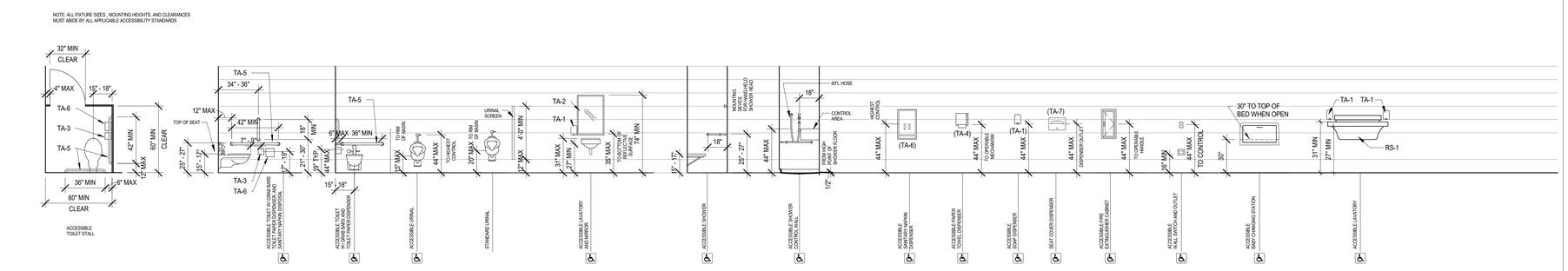
DESCRIPTION	Ages: 13 - Adult (Grades 8 and Above)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 36"
Flush Control Height	25" TYP 44" MAX
URINAL: Max. To Rim of Basin	17"
Flush Control Height (Max)	44"
LAVATORIES: Front Approach	
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	25"
FIXED OR BUILT-IN:	
Height of Tables or Counter:	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS:	
To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface	
At Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"
SHOWER	
Top of Seat	17" - 19"
Grab Bar	33" - 36"
To Hand Shower Head Mounting (Max)	48"
MARKER BOARDS / TACKBOARDS	COORD. MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALL

DESCRIPTION	Ages: 9 - 12 (Grades 4 - 7)
WATER CLOSET: To Top of Seat	15" - 17"
Grab Bar Height	25" - 27"
Flush Control Height	19" TYP 44" MAX
URINAL: Max. To Rim of Basin	15"
Flush Control Height (Max)	44"
LAVATORIES: Front Approach	
Knee Clearance (Min)	24"
To Top (Max)	31"
To Faucet (Max)	18"
FIXED OR BUILT-IN:	
Height of Tables or Counter:	26" - 30"
Knee Clearance (Min)	24"
SHELVES, DISPENSERS: Max. Height to Control Device	
Frontal Approach (Max)	44"
Side Approach (Max)	44"
DRINKING FOUNTAINS:	
To Spout (Max)	30"
Knee Clearance (Min)	24"
SWITCHES AND CONTROLS	
Frontal Approach (Max)	44"
Side Approach (Max)	44"
MIRRORS: Max. Height to Bottom of Reflective Surface	
At Lavatories and Counter Tops	35"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll	17" - 19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	44"
SHOWER	
Top of Seat	15" - 17"
Grab Bar	25" - 27"
To Hand Shower Head Mounting (Max)	44"
MARKER BOARDS / TACKBOARDS	COORD. MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALL

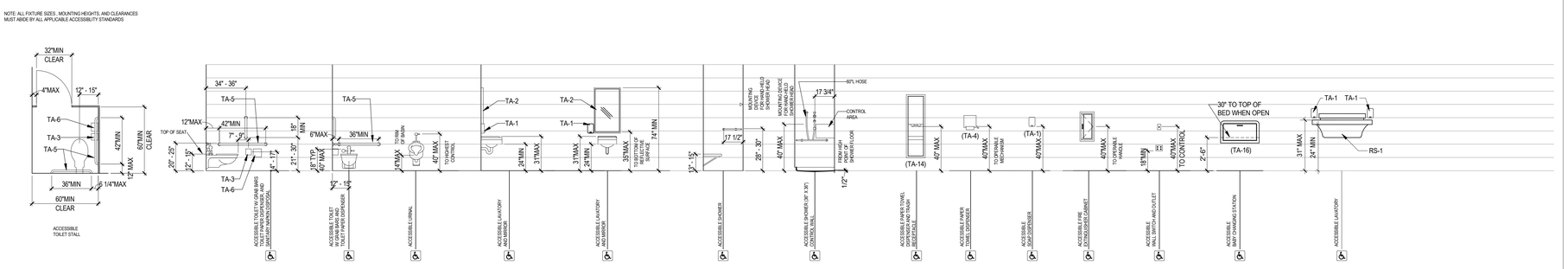


NOTE: ALL FIXTURE SIZES , MOUNTING HEIGHTS, AND CLEARANCES MUST ABIDE BY ALL APPLICABLE ACCESSIBILITY STANDARDS

18 ACCESSIBILITY - AGES 13 THRU ADULT (GRADES 8 AND ABOVE)
1/4" = 1'-0"



12 ACCESSIBILITY - AGES 9 THRU 12 (GRADES 4 THRU 7)
1/4" = 1'-0"



06 ACCESSIBILITY - AGES 5 THRU 8 (GRADES PRE-K THRU 3)
1/4" = 1'-0"

13 ACCESSIBILE MOUNTING HEIGHTS
1/4" = 1'-0"

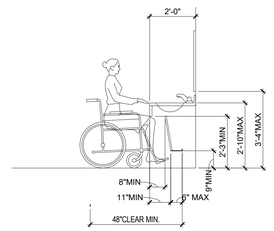
TOILET ACCESSORIES

LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	NOTE 6
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	NOTE 6
TA-4	PAPER TOWEL DISPENSER	NOTE 6
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPOSAL	
TA-7	TOILET COVER DISPENSER	
RS-1	GANG RESTROOM SINK	
RS-2	WALL HUNG SINK	
TP-1	TOILET PARTITION	
UP-1	URINAL PARTITION	

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT
4. ALIGN MIRROR ON CENTER OF LAVATORY
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER
6. OWNER FURNISH, CONTRACTOR INSTALL

07 TOILET ACCESSORIES TYPES
1/4" = 1'-0"



01 ACCESSIBLE VANITY
3/8" = 1'-0"

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com
Coleman Partners ARCHITECTS cparch.com

OWNER
SPRING ISD
T. 281-891-6156

ARCHITECT
IN2 ARCHITECTURE
T. 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T. 225-367-4414

CIVIL & LANDSCAPING
BROOKS & SPARKS
T. 281-578-3595

STRUCTURAL
DALLY + ASSOCIATES
T. 713-337-8881

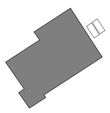
MEP
SALAS O'BRIEN
T. 281-664-1900

spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3979 Gladebridge Dr, Houston, TX 77068

KEY PLAN





10.22.2025

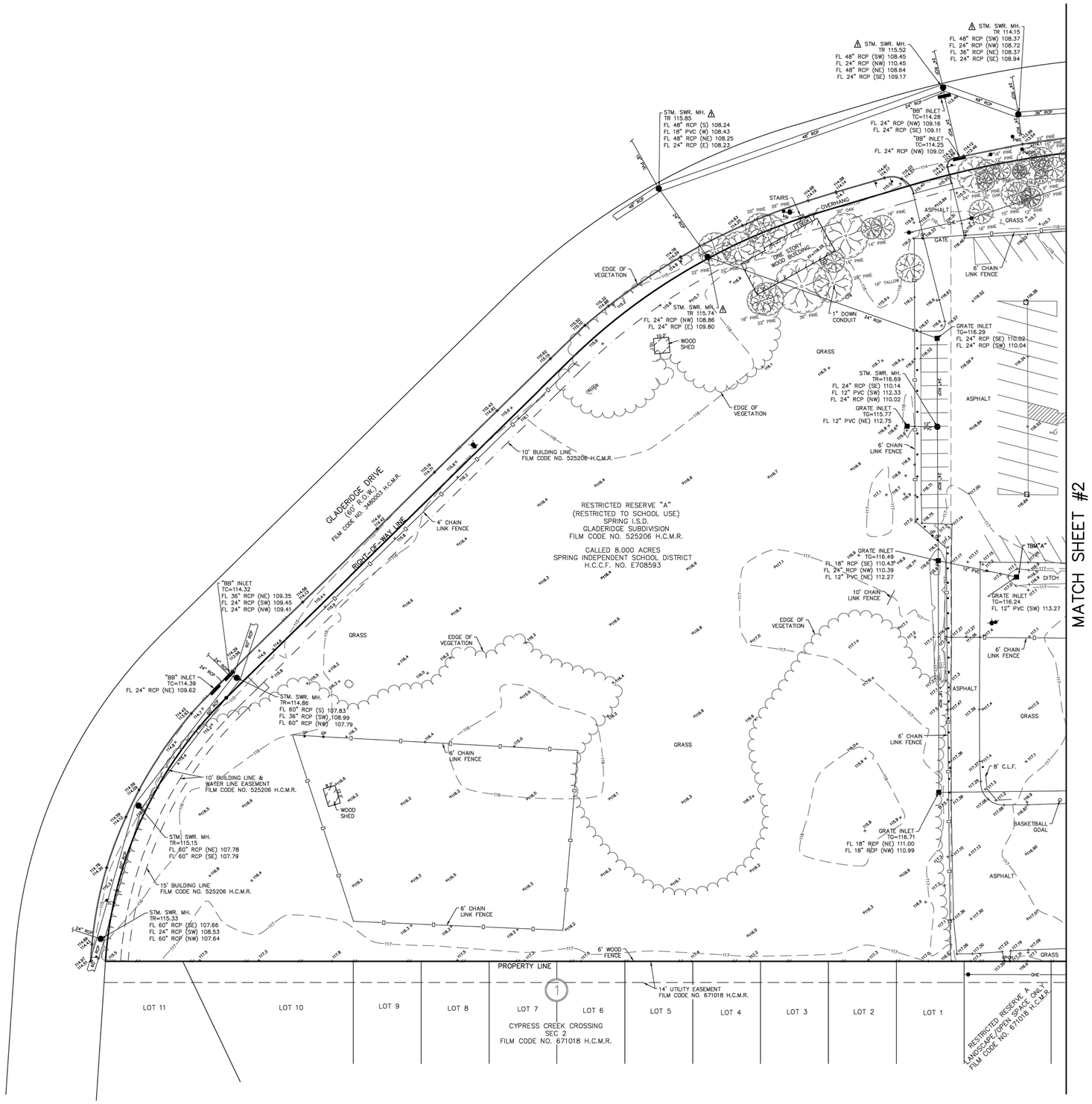
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DATE	ISSUE
10.22.2025	ISSUE FOR PROPOSALS

REVISIONS

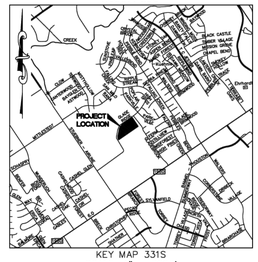
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ACCESSIBILITY GUIDELINES

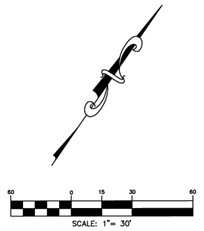
G-001



VICINITY MAP



KEY MAP 331S
SCALE: 1" = 3000'



SCALE: 1"= 30'

ABBREVIATIONS

AC—AIR CONDITION
C.L.F.—CHAIN LINK FENCE
CMC—CREPE MYRTLE CLUSTER
FF—FINISH FLOOR
FL—FLOW LINE
FND.—FOUND
GEN.—GENERATOR
H.C.C.F.—HARRIS COUNTY CLERK'S FILE
H.C.M.R.—HARRIS COUNTY MAP RECORDS
HDP—HIGH DENSITY POLYETHYLENE PIPE
I.R.—IRON ROD
MH—MANHOLE
OHE—OVERHEAD ELECTRIC
PG.—PAGE
P.G.E.—PLAYGROUND EQUIPMENT
PVC—POLYVINYL CHLORIDE PIPE
RCP—REINFORCED CONCRETE PIPE
R.O.W.—RIGHT—OF—WAY
SAN.—SANITARY
STM.—STORM
SWR.—SEWER
TBM—TEMPOARY BENCHMARK
TC—TOP OF CONCRETE
TG—TOP OF GRATE
TR—TOP OF RIM
TYP.—TYPICAL
U.E.—UTILITY EASEMENT
VOL.—VOLUME
W.F.—WOOD FENCE

DETAIL 1
AREA DRAIN
TD=116.75
MEASURE TO BOTTOM=115.21

DETAIL 2
AREA DRAIN
TD=116.73
MEASURE TO BOTTOM=114.18

DETAIL 3
AREA DRAIN
TD=116.72
MEASURE TO BOTTOM=114.27

DETAIL 4
AREA DRAIN
TD=116.70
MEASURE TO BOTTOM=113.88

DETAIL 5
AREA DRAIN
TD=116.82
MEASURE TO BOTTOM=114.27

DETAIL 6
AREA DRAIN
TD=116.74
MEASURE TO BOTTOM=114.54

DETAIL 7
AREA DRAIN
TD=116.62
MEASURE TO BOTTOM=114.69

DETAIL 8
AREA DRAIN
TD=116.72
MEASURE TO BOTTOM=115.09

DETAIL 9
AREA DRAIN
TD=116.87
MEASURE TO BOTTOM=115.41

DETAIL 10
GRATE INLET
TG 116.27
FL 6" PVC (NE) 115.31
FL 6" PVC (SW) 115.41

DETAIL 11
GRATE INLET
TG 116.34
FL 6" PVC (NE) 115.44
FL 6" PVC (SW) 115.41

DETAIL 12
GRATE INLET
TG 116.15
FL 6" PVC (NE) 115.21
FL 6" PVC (SW) 115.28

DETAIL 13
GRATE INLET
TG 116.26
FL 6" PVC (NE) 115.44
FL 6" PVC (SW) 115.39

DETAIL 14
GRATE INLET
TG 116.41
FL 6" PVC (SW) 115.69

DETAIL 15
GRATE INLET
TG 116.33
FL 6" PVC (NE) 115.41

DETAIL 16
GRATE INLET
TG 116.39
FL 6" PVC (NE) 115.52
FL 6" PVC (SW) 115.57

DETAIL 17
GRATE INLET
TG 116.55
FL 6" PVC (NE) 115.90
FL 6" PVC (SW) 115.50

DETAIL 18
GRATE INLET
TG 116.59
FL 6" PVC (NW) 115.44
FL 6" PVC (SW) 115.52

DETAIL 19
GRATE INLET
TG 116.34
FL 6" PVC (NE) 115.34
FL 6" PVC (SW) 115.30

DETAIL 20
GRATE INLET
TG 116.22
FL 6" PVC (NE) 115.16
FL 6" PVC (SW) 115.22

DETAIL 21
GRATE INLET
TG 116.45
FL 6" PVC (NE) 115.54
FL 6" PVC (SW) 115.46

DETAIL 22
GRATE INLET
TG 116.69
FL 6" PVC (NE) 115.51
FL 6" PVC (SW) 115.49

DETAIL 23
GRATE INLET
TG 116.55
FL 6" PVC (NE) 115.54
FL 6" PVC (SW) 115.43

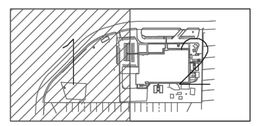
DETAIL 24
GRATE INLET
TG 116.58
FL 6" PVC (SW) 115.50

DETAIL 25
SAN. SWR. MH.
TR=115.96
FL 8" PVC (NW) 111.69
FL 8" PVC (SE) 111.69

DETAIL 26
SAN. SWR. MH.
TR=115.98
FL 8" PVC (NW) 112.46
FL 8" PVC (SE) 112.29

TOPOGRAPHIC SURVEY

SV01



SHEET 1 OF 2

TO: SPRING INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION I SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

STATE OF TEXAS — REGISTERED — JOEL D. WALKER — 5189 — PROFESSIONAL LAND SURVEYOR

10/3/25
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

LEGEND

- AIR CONDITIONING UNIT
- "B" INLET
- "BB" INLET
- BOLLARD
- CLEANOUT
- D.S. DOWN SPOUT
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- FLAG POLE
- GM GAS METER
- GATE POST
- GREASE TRAP
- GUY WIRE
- INLET
- ICV IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MANHOLE
- PME PAINT MARKER (ELECTRIC)
- PMG PAINT MARKER (GAS)
- PEDESTAL
- POWER POLE
- SAMPLE WELL
- SHRUB
- SIGN
- STAND PIPE
- TRAFFIC POST
- WM WATER METER
- WATER VALVE
- WHEEL STOP

SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

2. THE CAD FILE OF THE DRAWING SHOWN HEREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999928654971.

3. ACCORDING TO F.I.R.M. MAP NO. 48201C0455L, (COMMUNITY—PANEL NO. 480287 0455L), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

4. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON—SITE OBSERVATION UNLESS OTHERWSE NOTED.

5. —INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB—OUT.

6. UNDERGROUND UTILITY LOCATIONS PROVIDED BY LONESTAR LOCATING, LLC. PAINT MARKS WITH NUMERIC VALUES INDICATES COVER (FEET AND INCHES) DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY TRANSMISSION SIGNAL.

REFERENCE BENCHMARK:

RM110075 — HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110075 IS A BRASS DISK STAMPED 110075, LOCATED ON A "BB" INLET ON THE NORTHSIDE OF CONNERS ACE AT IT'S INTERSECTION WITH WILDING WIMBLEDON. IN KEY 330R NEAR STREAM K100—00—00 IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM"A" — BOX CUT ON THE NORTHEAST CORNER OF GRATE INLET LOCATED ±275 FEET, SOUTHEAST OF THE MOST WESTERLY DRIVEWAY INTO THE SCHOOL.
ELEVATION = 116.22'

TBM"B" — BOX CUT ON EDGE OF SIDEWALK LOCATED ±9 FEET, SOUTHWEST OF THE NORTHEAST CORNER OF ASPHALT PARKING LOT ON THE SOUTH SIDE OF THE SCHOOL.
ELEVATION = 116.03'

TBM"D" — BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE MOST EASTERLY LIGHT STANDARD NEAR THE NORTHEAST CORNER OF THE SCHOOL.
ELEVATION = 118.88'

SPRING INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

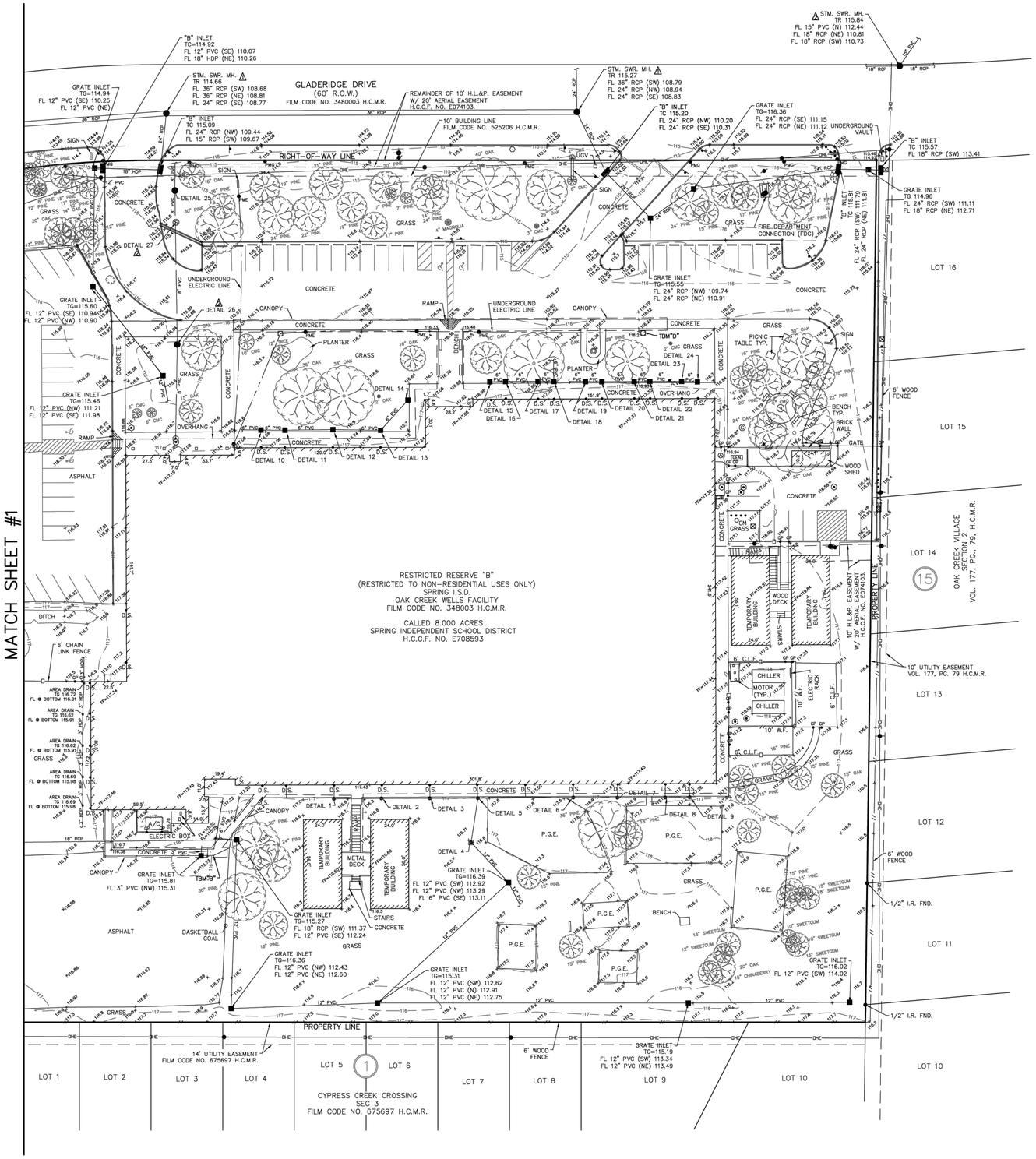
REYNOLDS ELEMENTARY SCHOOL OUT OF THE GEORGE H. DELESDERNIER SURVEY ABSTRACT NO. 229 HARRIS COUNTY, TEXAS

WEST BELT SURVEYING, INC.
21080 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-8988
FAX: (281) 492-6020
CERTIFIED FIRM NO. 10073800

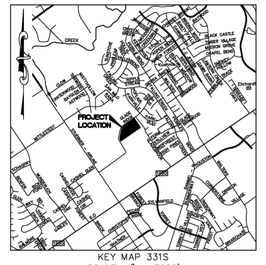
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1	3/27/25	ADDED STM. SWR. DETAILS GLADERIDGE DR.	KMH

DRAWN BY: KMH	CHECKED BY: MDL
SCALE: 1" = 30'	APPROVED BY: JDW
PROJECT NO. S461-0001A	DATE: OCTOBER 4, 2024

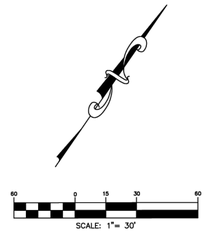
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VICINITY MAP



KEY MAP 331S
SCALE: 1" = 3000'



ABBREVIATIONS

AC–AIR CONDITION
C.L.F.–CHAIN LINK FENCE
CMC–CREPE MYRTLE CLUSTER
FF–FINISH FLOOR
FL–FLOW LINE
FND.–FOUND
GEN.–GENERATOR
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
I.R.–IRON ROD
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PG.–PAGE
P.G.E.–PLAYGROUND EQUIPMENT
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT-OF-WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TBM–TEMPORARY BENCHMARK
TC–TOP OF CONCRETE
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
U.E.–UTILITY EASEMENT
VOL.–VOLUME
W.F.–WOOD FENCE

DETAIL 1
AREA DRAIN
TD=116.75
MEASURE TO BOTTOM=115.21

DETAIL 2
AREA DRAIN
TD=116.73
MEASURE TO BOTTOM=114.18

DETAIL 3
AREA DRAIN
TD=116.72
MEASURE TO BOTTOM=114.27

DETAIL 4
AREA DRAIN
TD=116.70
MEASURE TO BOTTOM=113.88

DETAIL 5
AREA DRAIN
TD=116.82
MEASURE TO BOTTOM=114.27

DETAIL 6
AREA DRAIN
TD=116.74
MEASURE TO BOTTOM=114.54

DETAIL 7
AREA DRAIN
TD=116.62
MEASURE TO BOTTOM=114.69

DETAIL 8
AREA DRAIN
TD=116.72
MEASURE TO BOTTOM=115.09

DETAIL 9
AREA DRAIN
TD=116.87
MEASURE TO BOTTOM=115.41

DETAIL 10
GRATE INLET
TG 116.27
FL 6" PVC (NE) 115.31
FL 6" PVC (SW) 115.41

DETAIL 11
GRATE INLET
TG 116.34
FL 6" PVC (NE) 115.44
FL 6" PVC (SW) 115.41

DETAIL 12
GRATE INLET
TG 116.15
FL 6" PVC (NE) 115.21
FL 6" PVC (SW) 115.28

DETAIL 13
GRATE INLET
TG 116.26
FL 6" PVC (NE) 115.44
FL 6" PVC (SW) 115.39

DETAIL 14
GRATE INLET
TG 116.41
FL 6" PVC (SW) 115.69

DETAIL 15
GRATE INLET
TG 116.33
FL 6" PVC (NE) 115.41

DETAIL 16
GRATE INLET
TG 116.39
FL 6" PVC (NE) 115.52
FL 6" PVC (SW) 115.57

DETAIL 17
GRATE INLET
TG 116.55
FL 6" PVC (NE) 115.90
FL 6" PVC (SW) 115.50

DETAIL 18
GRATE INLET
TG 116.59
FL 6" PVC (NW) 115.44
FL 6" PVC (SW) 115.52

DETAIL 19
GRATE INLET
TG 116.34
FL 6" PVC (NE) 115.34
FL 6" PVC (SW) 115.30

DETAIL 20
GRATE INLET
TG 116.22
FL 6" PVC (NE) 115.16
FL 6" PVC (SW) 115.22

DETAIL 21
GRATE INLET
TG 116.45
FL 6" PVC (NE) 115.54
FL 6" PVC (SW) 115.46

DETAIL 22
GRATE INLET
TG 116.69
FL 6" PVC (NE) 115.51
FL 6" PVC (SW) 115.49

DETAIL 23
GRATE INLET
TG 116.55
FL 6" PVC (NE) 115.54
FL 6" PVC (SW) 115.43

DETAIL 24
GRATE INLET
TG 116.58
FL 6" PVC (SW) 115.50

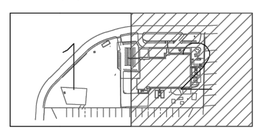
DETAIL 25
SAN. SWR. MH.
TR=115.96
FL 8" PVC (NW) 111.69
FL 8" PVC (SE) 111.69

⚠ DETAIL 26
SAN. SWR. MH.
TR=115.98
BOTTOM ELEVATION=112.03
(FULL OF WASTE)

⚠ DETAIL 27
SAMPLE WELL
TR=115.84
FL 8" PVC (SE) 111.90
FL 8" PVC (NW) 111.89

TOPOGRAPHIC SURVEY

SV02



SHEET 2 OF 2

TO: SPRING INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION I SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

STATE OF TEXAS
REGISTERED
JOEL D. WALKER
5189
PROFESSIONAL
LAND SURVEYOR

10/3/25
DATE

Joel D. Walker
JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

LEGEND

- AIR CONDITIONING UNIT
- "B" INLET
- "BB" INLET
- BOLLARD
- CLEANOUT
- D.S. DOWN SPOUT
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- FLAG POLE
- GM GAS METER
- GATE POST
- GREASE TRAP
- GUY WIRE
- INLET
- CV IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MANHOLE
- PME PAINT MARKER (ELECTRIC)
- PMG PAINT MARKER (GAS)
- PEDESTAL
- POWER POLE
- SAMPLE WELL
- SHRUB
- SIGN
- STAND PIPE
- TRAFFIC POST
- WM WATER METER
- WATER VALVE
- WHEEL STOP

SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

2. THE CAD FILE OF THE DRAWING SHOWN HEREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999928654971.

3. ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 4802870455L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

4. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON–SITE OBSERVATION UNLESS OTHERWISE NOTED.

5.→INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

6. UNDERGROUND UTILITY LOCATIONS PROVIDED BY LONESTAR LOCATING, LLC. PAINT MARKS WITH NUMERIC VALUES INDICATES COVER (FEET AND INCHES) DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY TRANSMISSION SIGNAL.

REFERENCE BENCHMARK:

RM110075 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110075 IS A BRASS DISK STAMPED 110075. LOCATED ON A "BB" INLET ON THE NORTHSIDE OF CONNERS ACE AT IT'S INTERSECTION WITH WILDING WIMBLEDON. IN KEY 330R NEAR STREAM K100–00–00 IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM"A" – BOX CUT ON THE NORTHEAST CORNER OF GRATE INLET LOCATED ±275 FEET, SOUTHEAST OF THE MOST WESTERLY DRIVEWAY INTO THE SCHOOL.
ELEVATION = 116.22'

TBM"B" – BOX CUT ON EDGE OF SIDEWALK LOCATED ±9 FEET, SOUTHWEST OF THE NORTHEAST CORNER OF ASPHALT PARKING LOT ON THE SOUTH SIDE OF THE SCHOOL.
ELEVATION = 116.03'

TBM"D" – BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE MOST EASTERLY LIGHT STANDARD NEAR THE NORTHEAST CORNER OF THE SCHOOL.
ELEVATION = 118.88'

SPRING INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

REYNOLDS ELEMENTARY SCHOOL OUT OF THE GEORGE H. DELESDERNIER SURVEY ABSTRACT NO. 229 HARRIS COUNTY, TEXAS

WEST BELT
SURVEYING, INC.
21030 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-9288
FAX: (281) 492-6026
CERTIFIED FIRM NO. 10073800

NO.	DATE	REVISIONS	BY
⚠ 2	10/3/25	ADDITIONAL TOPO	MDL
⚠ 1	3/27/25	ADDED STM. SWR. DETAILS GLADERIDGE DR.	KMH

DRAWN BY: KMH	CHECKED BY: MDL
SCALE: 1" = 30'	APPROVED BY: JDW
PROJECT NO. S461-0001A	DATE: OCTOBER 4, 2024

03 Oct 2025 9:23AM markl
G:\sdsk\proj\S4610001A\DWG\T100325.dwg

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION SCHEDULE WITH THE ENGINEER AND/OR ARCHITECT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL CONTACT ALL GOVERNING AGENCIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH THE SAME.
3. WHETHER SHOWN ON DRAWINGS OR NOT THE CONTRACTOR SHALL PROVIDE ALL PIPING, APPURTENANCES, AND MISCELLANEOUS FITTINGS REQUIRED TO ACCOMPLISH THE DESIGN AS DRAWN AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ENGINEER IF UNSURE OF PIPING LAYOUT, SIZES OR LENGTHS.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE ENGINEER IN A TIMELY MANNER.
5. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR. CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT ARE TO BE APPROVED BY THE ENGINEER.
6. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM AN ON THE GROUND OBSERVATION, SURVEY AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE TOPOGRAPHIC FEATURES, ELEVATIONS AS WELL AS THE LOCATION AND NATURE OF PIPELINES, NATURAL GAS LINES, UNDERGROUND CABLES, UTILITIES, ETC. HOWEVER, THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO PRECLUDE DAMAGE TO EXISTING UTILITIES. IN THE EVENT THAT UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, 1-800-545-6005 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
8. SOME OF THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN FIELD VERIFIED.
9. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
10. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES OR FACILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO REPLACE THE UTILITY OR FACILITY BACK IN SERVICE AT NO INCREASE IN THE CONTRACT PRICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
11. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, ETC. WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT AT NO ADDITIONAL COST TO THE OWNER.
12. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS OF THE GOVERNING AUTHORITY.
13. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL TIMES FOR THE PROPERTY OWNERS AND BUSINESSES OF THE ABUTTING PROPERTY AND THE CROSS STREETS WHICH ARE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
14. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING A SAFE PROJECT SITE 24 HOURS A DAY.
15. DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION WARNING SIGNS AT EACH END OF THE PROJECT TO WARN MOTORING AND PEDESTRIAN TRAFFIC THAT CONSTRUCTION IS IN PROGRESS AND OF POSSIBLE HAZARDOUS CONDITIONS GENERATED BY THE CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING THE PERIMETER OF CONSTRUCTION AREA WITH CONSTRUCTION FENCING AT NO ADDITIONAL COST. CONSTRUCTION FENCING SHALL BE ERECTED PRIOR TO CONSTRUCTION AND REMOVED UPON COMPLETION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC IN THE IMMEDIATE VICINITY OF CONSTRUCTION. ALL WORK SHALL BE IN SUCH A MANNER AND SEQUENCE AS TO PROVIDE MAXIMUM PROTECTION TO TRAFFIC AND PEDESTRIANS. CONTROLS SHALL BE CONSISTENT WITH THE TYPE OF WORK BEING PERFORMED.
18. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
19. DELINEATORS SHALL BE INSTALLED ALONG THE PAVEMENT EDGE TO WARN TRAFFIC OF ANY ROADSIDE OBJECTS OR HAZARDS AND TO DELINEATE THE ROADWAY EDGE DURING HOURS OF DARKNESS.
20. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.
21. UNOCCUPIED TRENCHES SHALL BE SECURED WITH SAFETY "SNOW" FENCING OR OTHER APPROPRIATE MEANS AT ALL TIMES. TRENCHES WHICH ARE NOT IMMEDIATELY BACKFILLED SHALL BE SECURELY COVERED OVERNIGHT AND BE SURROUNDED BY SAFETY "SNOW" FENCING.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT, AND WORK IN PROGRESS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ADEQUATE DRAINAGE BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING AUTHORITY AND/OR ENGINEER..
24. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF ANY TEMPORARY DITCH OR DRAINAGE FACILITIES REQUIRED TO MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER
25. THE CONTRACTOR IS TO INSTALL GROUND WATER CONTROL FACILITIES IF NEEDED, AT DIRECTION OF ENGINEER AT NO ADDITIONAL COST TO OWNER.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS REQUIRED BY ALL GOVERNING AGENCIES.
27. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION AND SUBMISSION OF ALL APPLICABLE STATE AND FEDERAL FORMS REQUIRED FOR STORM WATER POLLUTION PREVENTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER PRACTICES.
28. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING.
29. THE CONTRACTOR SHALL DESIGN AND PROVIDE A TRENCH SAFETY SYSTEM TO MEET APPROPRIATE REQUIREMENTS ESTABLISHED IN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY & HEALTH REGULATIONS, 29 CFR 1926, SUBPART P – EXCAVATIONS, TRENCHING AND SHORING, AND OSHA'S PROPOSED STANDARDS ON TRENCHING, EXCAVATION PUBLISHED IN VOLUME 52, NO. 72 OF THE FEDERAL REGISTER, APRIL 15, 1987, PAGES 12288-12339. SHOULD THE REFERENCED OSHA STANDARDS BE MODIFIED OR AMENDED, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
30. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
31. IN ORDER TO COMPLY WITH HANDICAP REGULATIONS, THE CONTRACTOR SHALL ENSURE THAT THE SLOPE OF THE SIDEWALK AND/OR PAVING IN THE FIRST FIVE FEET OUTSIDE ANY DOOR DOES NOT EXCEED 2% IN ANY DIRECTION.
32. THE TEXAS DEPARTMENT OF TRANSPORTATION TxDOT 2004 STANDARD SPECIFICATIONS AND STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE CONSIDERED PART OF THESE PLANS AND USED AS THE SPECIFICATIONS FOR ITEMS EXCEPT AS SHOWN OTHERWISE ON PLANS OR IN THE PROJECT SPECIFICATIONS.
33. NO CONSTRUCTION WHICH BLOCKS TRAFFIC ON ANY STREET, ALLEY, OR DRIVEWAY WILL BE ALLOWED DURING THE HOURS OF 6:30 A.M. – 8:30 A.M. AND 2:30-6:00 P.M.
34. THE CONTRACTOR MUST CLEAN MUD, DIRT OR DEBRIS TRACKED ONTO EXISTING STREETS BY HIMSELF OR SUBCONTRACTOR'S VEHICLES AND EQUIPMENT DAILY OR AS DIRECTED BY ENGINEER.
35. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
36. ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NOT TO BE REPAVED OR OTHERWISE COVERED SHALL BE HYDROMULCHED.
37. CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL. TOPSOIL SHALL BE SPREAD OVER ALL AREAS RECEIVING SOD AND OR HYDROMULCH. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AN 85% STAND OF GRASS WITH NO AREAS OF EROSION BEFORE FINAL ACCEPTANCE.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL GENERATED DURING CONSTRUCTION. WASTE MATERIAL MUST BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN SUCH A MANNER AS TO NOT DAMAGE THE OWNER OR OTHER PERSONS AT NO ADDITIONAL COST.
39. ALL FILL PLACED ON SITE SHALL BE ENGINEERED FILL PER THE RECOMMENDATION OF THE SOILS REPORT OR AS INDICATED IN THE SPECIFICATIONS.
40. FINISH GRADE ELEVATIONS INDICATE FINAL GRADE OF PROPOSED MATERIAL (I.E. SOD, DIRT, MULCH, ETC.). LANDSCAPED AREAS ADJACENT TO BUILDING, INCLUDING, DIRT, MULCH, AND/OR BEDDING MATERIALS SHALL NOT COVER WEEPHOLES. AREAS ADJACENT TO BUILDING, LANDSCAPED, OR OTHERWISE SHALL SHEET FLOW AWAY FROM BUILDING WITH NO AREAS OF STANDING WATER ADJACENT TO BUILDING.
41. GRADING AROUND BUILDINGS INCLUDING WALKWAYS SHALL BE COORDINATED WITH ENGINEER AND/OR ARCHITECT AND FINAL APPROVAL OF GRADES IN GRASS AREAS AND SWALES SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF LANDSCAPING MATERIALS.
42. AFTER INSTALLATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL PERFORM FINAL GRADING AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER OR OWNER TO INSURE POSITIVE DRAINAGE OF ENTIRE SITE. FINAL GRADING SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF GRASS.
43. THE CONTRACTOR SHALL COORDINATE FINAL GRADING OF LANDSCAPED AREAS WITH THE LANDSCAPE ARCHITECT.
44. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL GRADES TO ENSURE POSITIVE DRAINAGE.
45. PLACE BACKFILL AS PROMPTLY AS PRACTICABLE AFTER COMPLETION OF EACH STRUCTURE OR PORTION OF A STRUCTURE. DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS OR SIMILAR STRUCTURES UNTIL CONCRETE HAS CURED AT LEAST SEVEN (7) DAYS.
46. ALL STRUCTURES AND SEWER PIPE UNDER OR WITHIN TWO (2) FEET OF PROPOSED OR FUTURE PAVEMENT SHALL BE BEDDED AND BACKFILLED WITH CEMENT STABILIZED SAND UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE.
47. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
48. WHERE PAVEMENT OR CURB IS BEING REMOVED AND REPLACED FULL DEPTH SAW CUT SHALL BE PERFORMED AT STREET CONNECTION.
49. CONCRETE PAVEMENT SHALL HAVE MINIMUM OF FIVE AND ONE-HALF SACKS OF CEMENT PER CUBIC YARD AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS.
50. ALL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
51. DETAILING AND FABRICATION OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI-318 LATEST EDITION.
52. LAP ALL CONTINUOUS REINFORCING STEEL 36 DIAMETERS AT SPLICES, TEES, AND CORNERS UNLESS NOTED OTHERWISE ON PLANS.
53. WHERE CONCRETE CURB OR WALK IS INDICATED, ELEVATION SHALL BE 6 INCHES ABOVE TOP OF PAVEMENT ELEVATION SHOWN, UNLESS OTHERWISE SHOWN ON DRAWINGS.
54. MOW STRIPS SHALL BE INSTALLED SO AS NOT TO BLOCK ANY SHEET FLOW PATTERNS AS DESIGNED. ANY MOW STRIPS THAT BLOCK DRAINAGE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. IF CONTRACTOR HAS ANY QUESTIONS ON CORRECT ELEVATIONS FOR MOW STRIPS, CONTACT ENGINEER OR ARCHITECT.
55. A FIBERBOARD EXPANSION JOINT SHALL BE PLACED BETWEEN THE BUILDING FOUNDATION AND THE CONCRETE PAVEMENT.
56. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL PROPOSED UTILITIES EXITING BUILDING PRIOR TO COMMENCING WORK ON SITE UTILITIES. UPON ANY DISCREPANCIES, ENGINEER IS TO BE NOTIFIED.
57. ELECTRIC METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH ELECTRICAL PROVIDER BY THE CONTRACTOR.
58. GAS METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH GAS COMPANY BY THE CONTRACTOR.

PRIVATE UTILITY NOTES

AT&T TEXAS / SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE 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 THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN THE AREA. FOLLOW THE DIRECT BURIED CABLE PROCEDURES TO LOCATE THE AT&T TEXAS/SWBT DIRECT BURIED CABLES AS INDICATED IN THE AT&T TEXAS RESEARCH AND SIGNATURE PROCESS FOR AT&T TEXAS/SWBT FACILITIES.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)567-4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATION NEAR OUR AT&T TEXAS/SWBT FACILITIES.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, 1-800-669-8344 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 945-8036 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769.

SANITARY SEWER CONSTRUCTION NOTES

1. SANITARY SEWER SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, D-3034-08 AND HAVING A S.D.R. OF 26 UNLESS OTHERWISE SHOWN ON PLANS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
2. THE CONTRACTOR SHALL USE 4000 PSI REINFORCED CONCRETE PRECAST SANITARY SEWER MANHOLES.
3. ALL MANHOLES, AND CLEANOUTS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" AROUND OUTSIDE OF STRUCTURE.
4. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT.
5. CONTRACTOR SHALL SEAL INTERIOR SURFACE OF PROPOSED SANITARY SEWER MANHOLES WITH THANECOAT, OR APPROVED EQUAL AS PER MANUFACTURER'S SPECIFICATIONS.
6. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED.
7. ALL SANITARY SEWER LINES SHALL BE MANDREL AND AIR TESTED. ALL SANITARY SEWER LINES SHALL ALSO BE INSPECTED VIA CAMERA.
8. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
9. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
10. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.
11. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR-TIGHT MECHANICAL PLUG.
12. ALL SANITARY SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET 3" ABOVE FINISHED GRADE WITH CONCRETE COLLAR.
13. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

STORM SEWER CONSTRUCTION NOTES

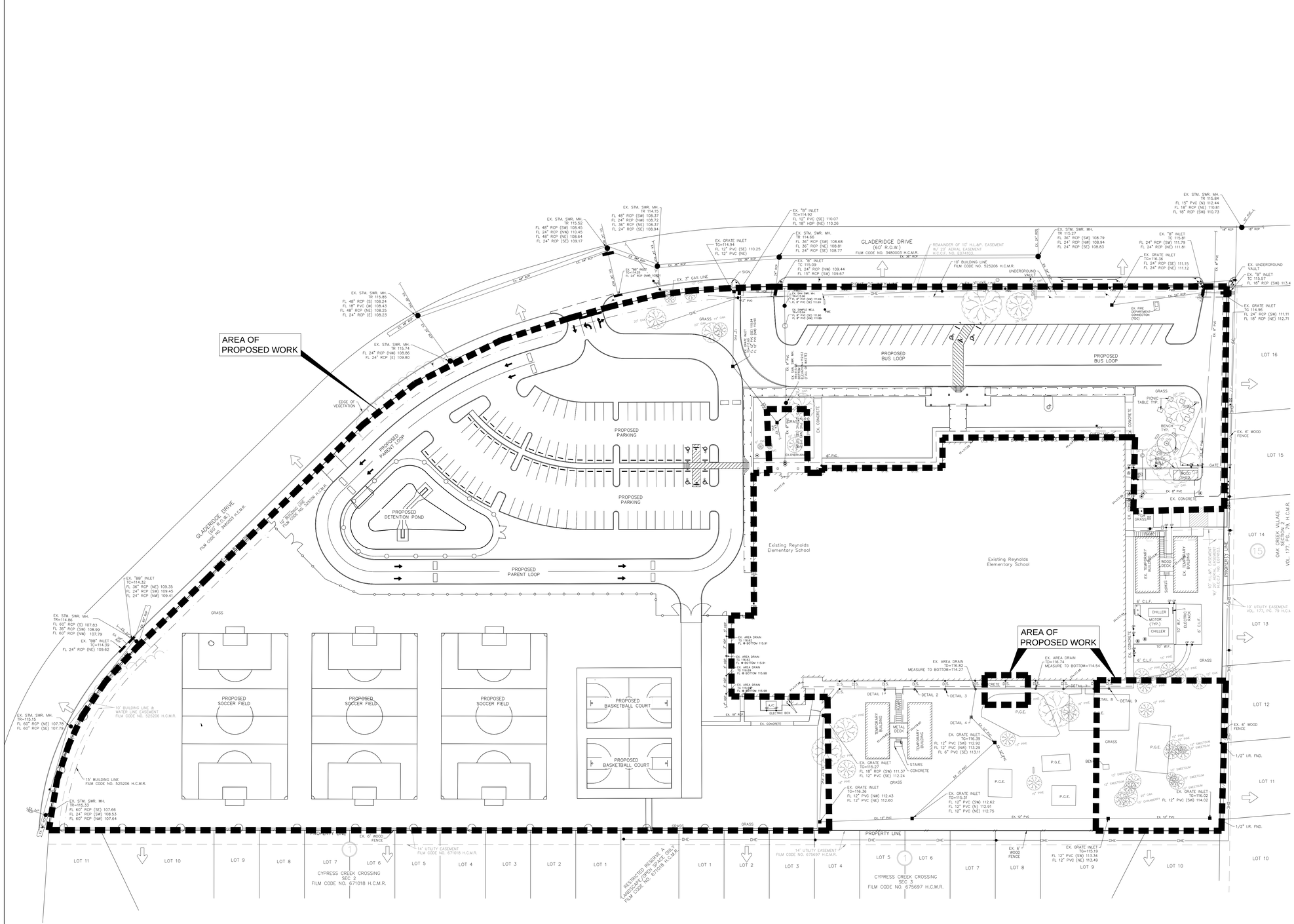
1. ON SITE STORM SEWERS 12-INCH DIAMETER AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (PER AASHTO M-294, TYPE S, HANCOR SURE-LOK F477 PIPE, OR APPROVED EQUAL,) UNLESS OTHERWISE SHOWN ON PLANS. PRODUCT MUST HAVE GASKET JOINTS.
2. ON SITE STORM SEWERS 10-INCH DIAMETER AND LESS SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, ASTM D3034 AND HAVING A S.D.R. OF 26, UNLESS OTHERWISE SHOWN ON PLANS.
3. ANY CONCRETE PIPE USED ON THIS PROJECT SHALL BE REINFORCED CONCRETE MEETING ASTM C-76 CLASS III, AND HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. CONCRETE PIPE IS ONLY TO BE USED WHERE REQUIRED IN PUBLIC RIGHT-OF-WAY AND/OR AT TIES TO PUBLIC STORM SEWER SYSTEMS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
4. THE CONTRACTOR SHALL USE PRECAST 4000 PSI REINFORCED CONCRETE STORM SEWER MANHOLES AND INLETS. INVERT SHALL BE INSTALLED WITH NON-SHRINK GROUT AND SLOPED TO ENSURE POSITIVE DRAINAGE FROM INLET TO STORM SEWER LINE, WITH SMOOTH FINISH AND NO STANDING WATER IN INLET. BRICK MANHOLES AND/OR INLETS MAY BE USED AS APPROVED BY THE ENGINEER WHEN SETTING STRUCTURES ON EXISTING UTILITY LINE. BRICK STRUCTURES MUST BE MORTARED INSIDE AND OUT. COORDINATE EACH INCIDENT WITH ENGINEER.
5. ALL INLETS, MANHOLES, CLEANOUTS, AND HEADWALLS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" ARROUND OUTSIDE OF STRUCTURE.
6. NO CORNER CONNECTIONS WILL BE ALLOWED TO ANY INLETS, JUNCTION BOXES OR BOX MANHOLES.
7. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF INLETS AND MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT.
8. CONCRETE FOR DRAINAGE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
9. CULVERT CROSSINGS LOCATED WITHIN 30 FEET OF THE RIGHT-OF-WAY SHALL HAVE MINIMUM 6:1 SLOPING ENDS KNOWN AS SAFETY END TREATMENTS (SETs). THE CULVERT SHALL HAVE SUFFICIENT LENGTH TO ALLOW THE 6:1 SLOPE TO BE ACHIEVED FROM THE EDGE OF PAVEMENT TO THE FLOWLINE AT THE END OF THE SET.
10. CULVERTS LARGER THAN SINGLE 30-INCH DIAMETER (OR LARGER THAN MULTIPLE 24-INCH DIAMETER CULVERTS) SHALL REQUIRE SAFETY PIPE RUNNERS.
11. CONTRACTOR SHALL FLUSH AND CLEAN ALL STORM SEWER LINES AND STRUCTURES PRIOR TO ACCEPTANCE.
12. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
13. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
14. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.
15. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR-TIGHT MECHANICAL PLUG.
16. ALL STORM SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET AT FINISH GRADE WITH CONCRETE COLLAR UNLESS OTHERWISE NOTED ON PLANS.
17. ALL INLETS AND JUNCTION BOXES LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE A PRE-CAST TOP WITH CAST-IN FRAME.
18. CONTRACTOR SHALL GROUT ALL JOINTS INSIDE OF ALL INLETS, JUNCTION BOXES, AND MANHOLES WITH NON-SHRINK GROUT.
19. ALL TYPE "A" GRATE INLETS SHALL HAVE SLOTTED GRATE TOPS (MODEL V-4880-3).
20. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

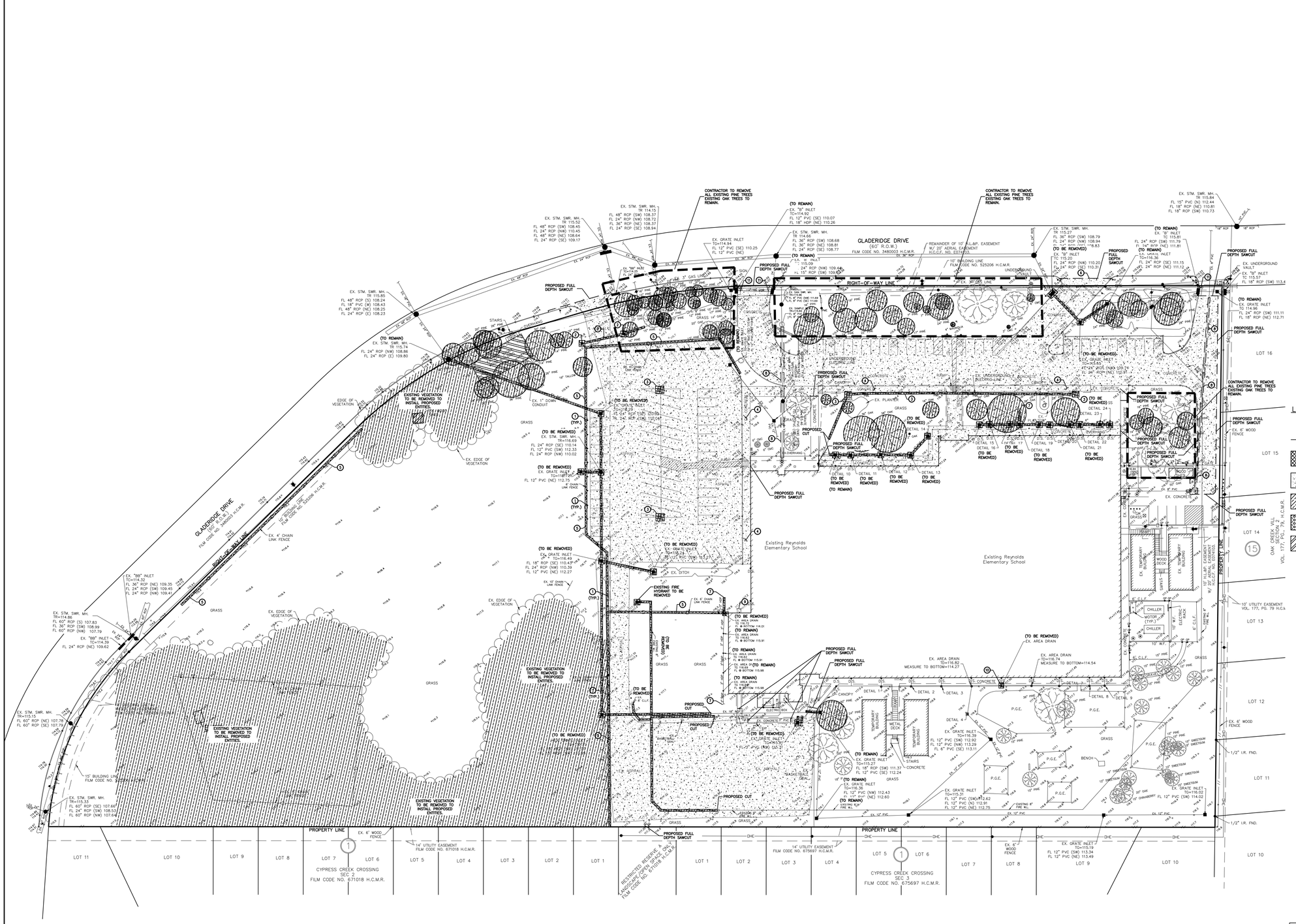
WATER LINE CONSTRUCTION NOTES

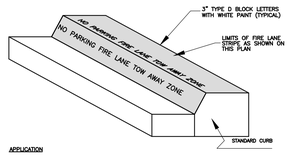
1. DOMESTIC OR FIRE WATER LINES 4" AND LARGER SHALL BE POLYVINYL CHLORIDE PVC), DR-18, CLASS 150, CONFORMING TO AWWA C900 OR C905, AS CURRENTLY AMENDED UNLESS OTHERWISE NOTED ON THE PLANS.
2. WATER LINES 3" AND SMALLER SHALL BE SCHEDULE 40 PVC.
3. ALL VALVES SHALL BE LEFT HAND (COUNTERCLOCKWISE) OPEN.
4. SEE DETAIL SHEET FOR THRUST BLOCK DETAILS.
5. CONTRACTOR SHALL INSTALL METALLIC TRACER WIRE ON ALL UNDERGROUND PVC PIPING AND SECURE WIRE ENDS AT ALL VALVE BOXES.
6. CONTRACTOR SHALL ADJUST ELEVATION OF WATER LINES AS REQUIRED TO CLEAR OTHER UTILITIES. ADJUSTMENT MUST MEET TCEQ REQUIREMENTS FOR MINIMUM CLEARANCES, TYPE OF PIPE, ETC.
7. MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINES AND OTHER UTILITIES SHALL BE TWELVE INCHES, UNLESS OTHERWISE NOTED ON THE PLANS.
8. EXISTING WATER SERVICES SHALL NOT BE INTERRUPTED DURING CONSTRUCTION.
9. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL ALL PROPOSED WATER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED, DISINFECTED AND APPROVED. ALL TESTING PROCEDURES SHALL CONFORM TO THE GOVERNING AGENCY.
10. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
11. METER AND BACKFLOW VAULTS SHALL BE SET 3" ABOVE FINISHED GRADE.
12. CONTRACTOR TO COORDINATE APPROPRIATE NOZZLE SIZE AND TYPE WITH LOCAL FIRE MARSHAL/FIRE INSPECTOR PRIOR TO OBTAINING FIRE HYDRANT.

HARRIS COUNTY CONSTRUCTION NOTES

1. WATER LINES, WASTEWATER COLLECTION SYSTEMS, AND STORM DRAINAGE SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON'S, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING "DESIGN MANUAL. STANDARD CONSTRUCTION SPECIFICATIONS, AND DETAILS FOR WASTEWATER COLL


AREA OF PROPOSED WORK
AREA OF PROPOSED WORK
GLADERIDGE DRIVE
REMAINDER OF 10' H.L.&P. EASEMENT W/ 20' AERIAL EASEMENT H.C.C.F. NO. EG743243
10' BUILDING LINE FILM CODE NO. 525206 H.C.M.R.
UNDERGROUND VAULT
PROPOSED BUS LOOP
PROPOSED PARKING
PROPOSED PARENT LOOP
PROPOSED DETENTION POND
Existing Reynolds Elementary School
PROPOSED SOCCER FIELD
PROPOSED BASKETBALL COURT
TEMPORARY BUILDING
METAL DECK
STAIRS
CHILLER
MOTOR (TYP.)
ELECTRIC BOX
EDGE OF VEGETATION
PROPERTY LINE
CYPRESS CREEK CROSSING SEC 2 FILM CODE NO. 671018 H.C.M.R.
CYPRESS CREEK CROSSING SEC 3 FILM CODE NO. 675697 H.C.M.R.
OAK CREEK VILLAGE VOL. 177, PG. 79 H.C.M.R.
LOT 11
LOT 10
LOT 9
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
LOT 1
LOT 16
LOT 15
LOT 14
LOT 13
LOT 12
LOT 11
LOT 10
LOT 9
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
LOT 1
GRASS
EX. 6' WOOD FENCE
EX. 3" GAS LINE
SIGN
EX. GRATE INLET TG=114.94 FL 12" PVC (SE) 110.25 FL 12" PVC (NE)
EX. "B" INLET TG=114.92 FL 12" PVC (SE) 110.07 FL 18" HDP (NE) 110.26
EX. STM. SWR. MH. TR 114.66 FL 36" RCP (SW) 108.68 FL 36" RCP (NE) 108.81 FL 24" RCP (SE) 108.77
EX. "B" INLET TC 115.09 FL 24" RCP (NW) 109.44 FL 15" RCP (SW) 109.67
EX. STM. SWR. MH. TR 115.27 FL 36" RCP (SW) 108.79 FL 24" RCP (NW) 108.94 FL 24" RCP (SE) 108.83
EX. "B" INLET TC 115.81 FL 24" RCP (SW) 111.79 FL 24" RCP (NE) 111.81
EX. GRATE INLET TG=116.36 FL 24" RCP (SE) 111.15 FL 24" RCP (NE) 111.12
EX. STM. SWR. MH. TR 115.85 FL 48" RCP (S) 108.24 FL 18" PVC (W) 108.43 FL 48" RCP (NE) 108.25 FL 24" RCP (E) 108.23
EX. STM. SWR. MH. TR 115.74 FL 24" RCP (NW) 108.86 FL 24" RCP (E) 109.80
EX. STM. SWR. MH. TR 114.15 FL 48" RCP (SW) 108.37 FL 24" RCP (NW) 108.72 FL 36" RCP (NE) 108.37 FL 24" RCP (SE) 108.94
EX. STM. SWR. MH. TR 115.52 FL 48" RCP (SW) 108.45 FL 24" RCP (NW) 110.45 FL 48" RCP (NE) 108.64 FL 24" RCP (SE) 109.17
EX. "B" INLET TG=114.32 FL 36" RCP (NE) 109.35 FL 24" RCP (SW) 109.40 FL 24" RCP (NW) 109.47
EX. STM. SWR. MH. TR=114.86 FL 60" RCP (S) 107.83 FL 36" RCP (SW) 108.99 FL 60" RCP (NW) 107.79
EX. "BB" INLET TC=114.39 FL 24" RCP (NE) 109.62
EX. STM. SWR. MH. TR=115.15 FL 60" RCP (NE) 107.78 FL 60" RCP (SE) 107.78
EX. STM. SWR. MH. TR=115.33 FL 60" RCP (SE) 107.66 FL 24" RCP (SW) 108.53 FL 60" RCP (NW) 107.64
EX. AREA DRAIN TG 116.82 FL @ BOTTOM 115.91
EX. AREA DRAIN TG 116.69 FL @ BOTTOM 115.98
EX. AREA DRAIN TG 116.82 MEASURE TO BOTTOM=114.27
EX. AREA DRAIN TG=116.74 MEASURE TO BOTTOM=114.58
EX. GRATE INLET TG=116.39 FL 12" PVC (SW) 112.92 FL 12" PVC (NW) 113.29 FL 6" PVC (SE) 113.11
EX. GRATE INLET TG=115.27 FL 18" RCP (SW) 111.37 FL 12" PVC (SE) 112.24
EX. GRATE INLET TG=116.36 FL 12" PVC (NW) 112.43 FL 12" PVC (NE) 112.60
EX. GRATE INLET TG=115.31 FL 12" PVC (SW) 112.62 FL 12" PVC (N) 112.91 FL 12" PVC (NE) 112.75
EX. GRATE INLET TG=115.19 FL 12" PVC (SW) 113.34 FL 12" PVC (NE) 113.49
EX. GRATE INLET TG=116.02 FL 12" PVC (SW) 114.02
EX. STM. SWR. MH. TR 115.84 FL 15" PVC (N) 112.44 FL 18" RCP (NE) 110.81 FL 18" RCP (SW) 110.73
EX. UNDERGROUND VAULT
EX. "B" INLET TC 115.57 FL 18" RCP (SW) 113.4
EX. GRATE INLET TG 114.96 FL 24" RCP (SW) 111.11 FL 18" RCP (NE) 112.71
EX. 6' WOOD FENCE
EX. CONCRETE
EX. 8" PVC
EX. 6" PVC
EX. 4" PVC
EX. 12" PVC
EX. 18" RCP
EX. 24" RCP
EX. 36" RCP
EX. 48" RCP
EX. FIRE DEPARTMENT CONNECTION (FDC)
EX. SIMPLEX WELL TG=114.50 FL 8" PVC (SW) 111.89 FL 8" PVC (NE) 111.89
EX. SIMPLEX WELL TG=114.53 FL 8" PVC (SE) 111.90 FL 8" PVC (NW) 111.89
EX. 4" PVC WELL TG=114.53 FL 4" PVC (SE) 111.93
EX. 4" PVC WELL TG=114.53 FL 4" PVC (NW) 111.93
EX. 6" PVC WELL TG=114.53 FL 6" PVC (SE) 111.93
EX. 6" PVC WELL TG=114.53 FL 6" PVC (NW) 111.93
EX. 4" PVC WELL TG=114.53 FL 4" PVC (NE) 111.93
EX. 6" PVC WELL TG=114.53 FL 6" PVC (NE) 111.93
EX. DRAINAGE INLET TG=114.54 FL 12" PVC (SE) 110.54 FL 12" PVC (NE) 110.57
EX. DRAINAGE INLET TG=114.53 FL 12" PVC (SW) 110.53 FL 12" PVC (NW) 110.53


GLADERIDGE DRIVE
FILM CODE NO. 548003 H.C.M.R.
RIGHT-OF-WAY LINE
REMAINDER OF 10' HILAP. EASEMENT W/ 20' AERIAL EASEMENT H.C.C.F. NO. E074705
10' BUILDING LINE
FILM CODE NO. 525206 H.C.M.R.
CONTRACTOR TO REMOVE ALL EXISTING PINE TREES EXISTING OAK TREES TO REMAIN.
PROPOSED FULL DEPTH SAWCUT
EXISTING VEGETATION TO BE REMOVED TO INSTALL PROPOSED ENTRIES
EXISTING FIRE HYDRANT TO BE REMOVED
Existing Reynolds Elementary School
PROPERTY LINE
CYPRESS CREEK CROSSING SEC 2
FILM CODE NO. 671018 H.C.M.R.
CYPRESS CREEK CROSSING SEC 3
FILM CODE NO. 675697 H.C.M.R.
OAK CREEK VILL. VOL. 177, PG. 79 H.C.R.
LOT 16
LOT 15
LOT 14
LOT 13
LOT 12
LOT 11
LOT 10
LOT 9
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
LOT 1
14' UTILITY EASEMENT FILM CODE NO. 675697 H.C.M.R.
10' UTILITY EASEMENT VOL. 177, PG. 79 H.C.R.
RESTRICTED RESERVE A (LANDSCAPE ONLY) FILM CODE NO. 671018 H.C.M.R.
EX. 6' WOOD FENCE
EX. 6' CHAIN LINK FENCE
EX. 10' CHAIN LINK FENCE
EX. EDGE OF VEGETATION
EX. CONCRETE
EX. GRASS
EX. PLANTER
EX. SIDEWALK
EX. SWITCH
EX. TRANSFORMER
EX. TEMPORARY BUILDING
EX. BASKETBALL GOAL
EX. CANOPY
EX. UNDERGROUND ELECTRICAL LINE
EX. UNDERGROUND TELEPHONE LINE
EX. UNDERGROUND CABLE TV LINE
EX. UNDERGROUND GAS LINE
EX. 8" PVC
EX. 12" PVC
EX. 18" RCP
EX. 24" RCP
EX. 36" RCP
EX. 42" RCP
EX. 48" RCP
EX. 60" RCP
EX. 72" RCP
EX. 84" RCP
EX. 96" RCP
EX. STM. SWR. MH.
EX. "BB" INLET
EX. "S" INLET
EX. GRATE INLET
EX. AREA DRAIN
EX. 3" GAS LINE
EX. 1" GAS LINE
EX. 8" WATER LINE
EX. 6" WATER LINE
EX. 4" WATER LINE
EX. 1" WATER LINE
EX. 1" SCH 40 CONDUIT
EX. 2" SCH 40 CONDUIT
EX. 4" SCH 40 CONDUIT
EX. 6" SCH 40 CONDUIT
EX. 8" SCH 40 CONDUIT
EX. 12" SCH 40 CONDUIT
EX. 4" SCH 80 CONDUIT
EX. 6" SCH 80 CONDUIT
EX. 8" SCH 80 CONDUIT
EX. 12" SCH 80



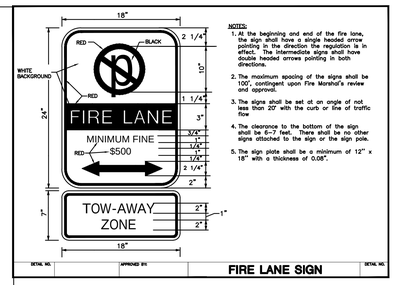
APPLICATION

1. STANDARD 6" CURB:
   PAINT RED LANE STRIPE ON BOTH FACE AND TOP OF CURB PAINT WHITE LETTERS ON FACE AND TOP OF CURB ONLY.
2. LOW CURB (HEADER CURB OR NO CURB):
   PAINT RED LANE STRIPE AND WHITE LETTERS ON TOP OF HEADER CURB OR PAVEMENT.
3. DESIGNATED CURBS SHALL BE PAINTED "RED" CURBS SHALL BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "NO PARKING FIRE LANE TOW-AWAY ZONE" LETTERS AT LEAST 3" IN HEIGHT, AT INTERVALS NOT EXCEEDING 50'.
4. DESIGNATED STRIPE ON PAVEMENT SHALL BE PAINTED "RED". STRIPES SHALL BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "NO PARKING FIRE LANE TOW-AWAY ZONE" IN WHITE LETTERS AT LEAST 3" IN HEIGHT, AT INTERVALS NOT EXCEEDING 50'.

FIRE LANE DETAIL
N.T.S.

LEGEND

SYMBOL	DESCRIPTION
	ACCESS ROAD/FIRE LANE
	EXIST. PAINT RED LANE STRIPE
	PROP. PAINT RED LANE STRIPE
	PROPOSED FIRE HYDRANT
	EXISTING FIRE HYDRANT
A	CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. WHERE A FIRE LANE PASSES BETWEEN HEAD IN PARKING SPACES, THE RED STRIPE SHOULD BE PLACED ALONG THE REAR OF THESE SPACES CLEARLY DEFINING THE FIRE LANE. PAINTED CURBS AND FIRE LANE STRIPES SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "NO PARKING FIRE LANE TOW AWAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING (50) FEET. WHERE FIRE LANES ARE NOT CLEARLY DEFINED BY CURB/PAVEMENT STRIPING, FIRE LANE SIGNS ARE REQUIRED. FIRE LANE SIGNS SHOULD BE PLACED EVERY (75) FEET, ALTERNATING PLACEMENT OF SIGNS ON EACH SIDE OF FIRE ACCESS LANE.
B	ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES. RED COLORED CURBS; PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES. THE PLANS WILL BE APPROVED WITH THE CIVIL SITE-PLAN REVIEW BUT MAY BE REVISED AT FIRE CODE REVIEW, BY THE BUILDING OFFICIAL.



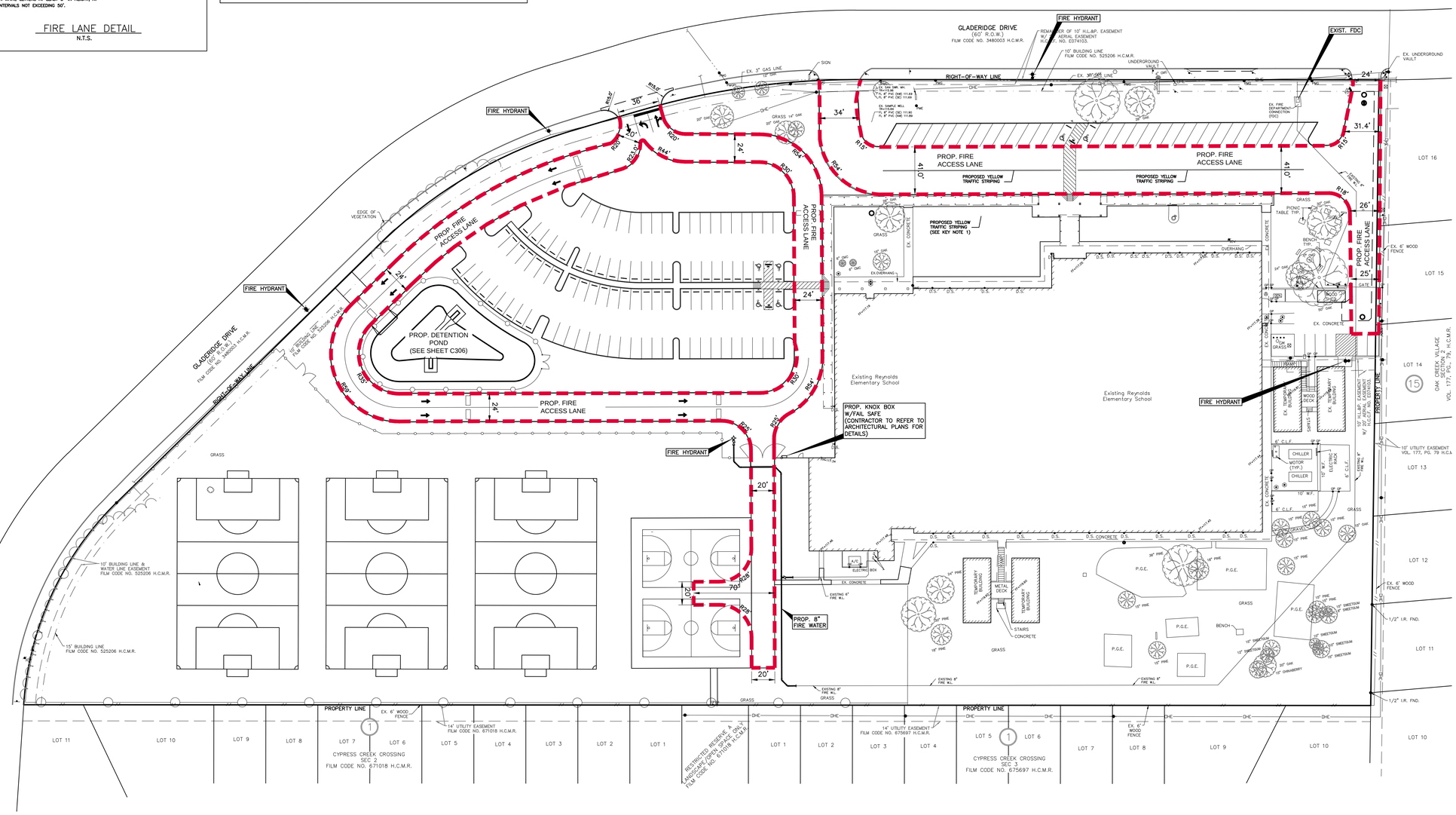
NOTES:
1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
2. The maximum spacing of the signs shall be 100', contingent upon Fire Marshal's review and approval.
3. The signs shall be set at an angle of not less than 20° with the curb or line of traffic flow
4. The clearance to the bottom of the sign shall be 6'-7 feet. There shall be no other signs attached to the sign or the sign pole.
5. The sign plate shall be a minimum of 12" x 18" with a thickness of 0.08".

DETAIL NO. | APPROVED BY: | **FIRE LANE SIGN** | DETAIL NO.

FIRE LANE STRIPING AND SIGN REQUIREMENTS:

FIRE LANE/FIRE ACCESS ROADS SHALL BE MARKED ON THE CURBS OR PAVEMENT WITH A RED STRIPE 4" IN HEIGHT AND STENCILED EVERY FIFTY FEET IN WHITE LETTERS AT LEAST 3' IN HEIGHT WITH THE WORDS "NO PARKING FIRE LANE TOW-AWAY ZONE" SO AS TO PREVENT PARKING IN THE AREA.

NOTE: WHERE STRIPING IS NOT PRACTICAL AN APPROVED FIRE LANE SIGN SHALL BE PLACED EVERY (75) FEET.



GLADERIDGE DRIVE
(60' R.O.W.)
FILM CODE NO. 548003 H.C.M.R.

REMAINDER OF 10' H.L.&P. EASEMENT W/ AERIAL EASEMENT H.C.C.F. NO. E074103.

10' BUILDING LINE
FILM CODE NO. 525206 H.C.M.R.





FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 4802870455L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110075 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110075 IS A BRASS DISK STAMPED 110075, LOCATED ON A "BB" INLET ON THE NORTHSIDE OF CONNERS ACE AT I"S INTERSECTION WITH WILDING WIMBLEDON. IN KEY 330R NEAR STREAM K100–00–00 IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM"A" – BOX CUT ON THE NORTHEAST CORNER OF GRATE INLET LOCATED ±275 FEET, SOUTHEAST OF THE MOST WESTERLY DRIVEWAY INTO THE SCHOOL.
ELEVATION = 116.22'

TBM"B" – BOX CUT ON EDGE OF SIDEWALK LOCATED ±9 FEET, SOUTHWEST OF THE NORTHEAST CORNER OF ASPHALT PARKING LOT ON THE SOUTH SIDE OF THE SCHOOL.
ELEVATION = 116.03'

TBM"D" – BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE MOST EASTERLY LIGHT STANDARD NEAR THE NORTHEAST CORNER OF THE SCHOOL.
ELEVATION = 118.88'

KEY NOTES:

1. CONTRACTOR TO PLACE FIRE LANE STRIPING JUST NORTH OF YELLOW TRAFFIC STRIPING. CONTRACTOR NOT TO OVERLAP FIRE STRIPING AND TRAFFIC STRIPING.

NOTES TO CONTRACTOR:

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. THE LOCATION OF ALL UNDERGROUND UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING ANY WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES (SEE NOTE 6 GENERAL CONSTRUCTION NOTES).
3. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES (PRIVATE OR PUBLIC) IN THE FIELD PRIOR TO CONSTRUCTION. IF A CONFLICT IS DISCOVERED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

UTILITY ONE CALL

CONTRACTOR TO CALL BEFORE DIGGING !!!!
PHONE:
HOUSTON 811

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SISD
T 281-984-5156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4418

CIVIL & LANDSCAPING
BROOKS & SPARKS
T 281-879-6950

STRUCTURAL
SALEY & ASSOCIATES
T 713-337-8881

MEP
SALAS O'BRIEN
T 281-664-1900

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3313 Gladeridge Dr, Houston, TX 77088

BROOKS & SPARKS, INC.
F-880



10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

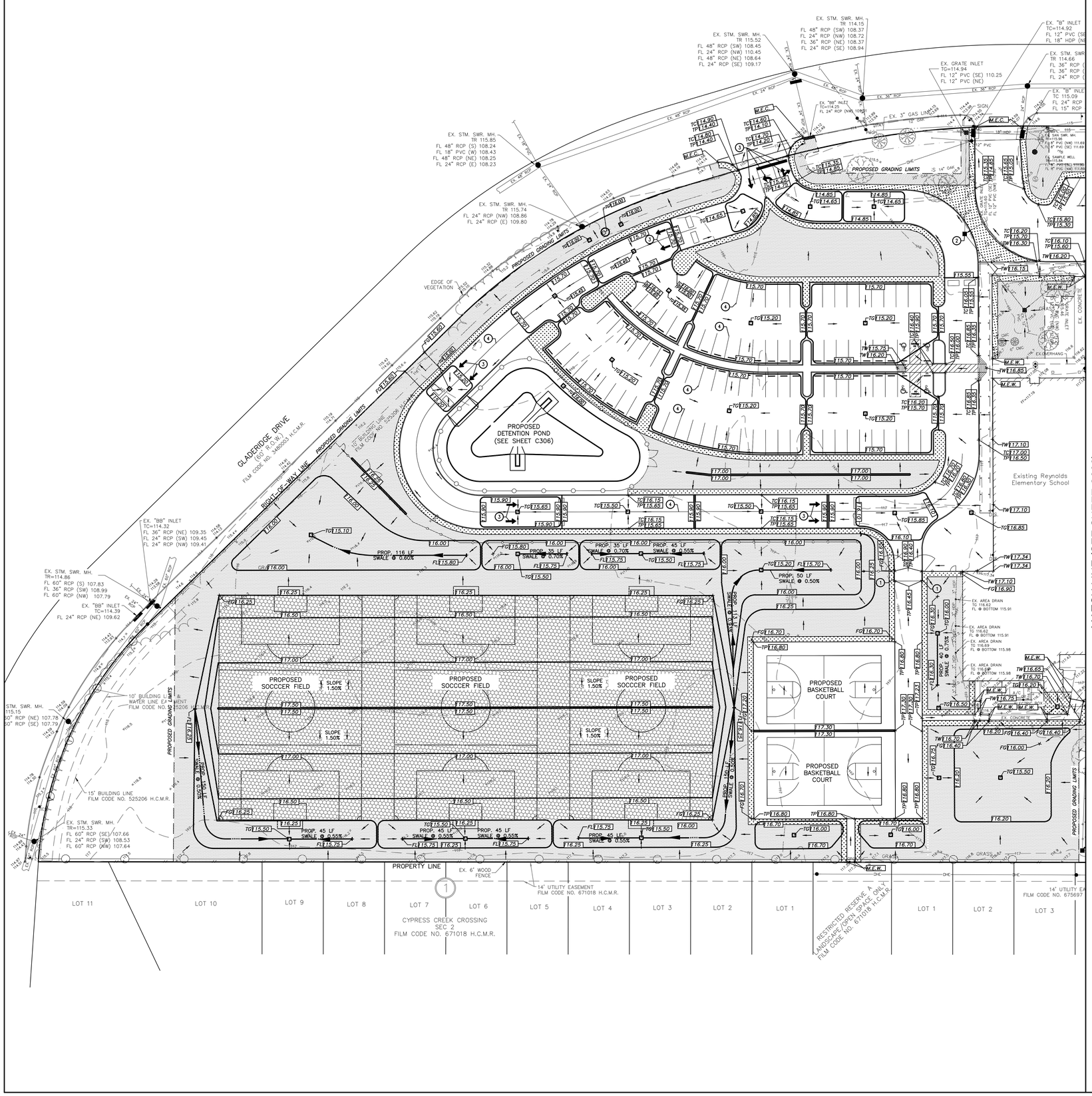
REVISIONS

NO.	DESCRIPTION	DATE

FIRE ACCESS PLAN

C104

17 Oct 2025 8:39AM GregL
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Includes Xref(s): Xtb.dwg; X-Seal.dwg; Xtopo.dwg; Xsite.dwg; XUti.dwg







FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 4802870455L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110075 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110075 IS A BRASS DISK STAMPED 110075, LOCATED ON A "BB" INLET ON THE NORTHSIDE OF CONNERS ACE AT I"I"S INTERSECTION WITH WILDING WIMBLEDON. IN KEY 330R NEAR STREAM K100–00–00 IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

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ELEVATION = 116.03'

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ELEVATION = 118.88'

LEGEND:

■	PROPOSED GRATE/CURB INLET
○	PROPOSED STORM SEWER MANHOLE WITH GRATE TOP
TC150.70	PROPOSED TOP OF CURB ELEV.
TP150.20	PROPOSED TOP OF PAVEMENT ELEV.
TW153.00	PROPOSED TOP OF WALK ELEV.
FL149.50	PROPOSED FLOWLINE ELEV.
FG149.50	PROPOSED FINISHED GRADE ELEV.
TG149.60	PROPOSED TOP OF GRATE ELEV.
150.00	PROPOSED CONTOUR
M.E.G.	MATCH EXIST. CURB & GUTTER
M.E.P.	MATCH EXIST. PAVEMENT
M.E.W.	MATCH EXIST. WALK
→	DIRECTION OF FLOW
	PROP. LIMITS OF COMMON BERMUDA SOLID SOD ON 2" OF TOPSOIL (CONTRACTOR TO IRRIGATE, FERTILIZE, MOW, AND WEED UNTIL SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE).
	PROP. COMMON BERMUDA ROLLED SOD ON 4" OF TOPSOIL (CONTRACTOR TO IRRIGATE, FERTILIZE, MOW, AND WEED UNTIL SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE).
	PROP. COMMON BERMUDA HYDRO–MULCH ON 2" OF TOPSOIL (CONTRACTOR TO ESTABLISH 85% STAND OF GRASS BEFORE FINAL ACCEPTANCE).

KEY NOTES:

1. CONTRACTOR TO TRANSITION CONCRETE CURB FROM 6" TO 2" IN 2'.
2. CONTRACTOR TO ADJUST EXISTING GRATE INLET TOP TO MATCH PROPOSED PAVEMENT ELEVATION (TG 115.30±)
3. PROPOSED TRAFFIC ARROW AND STOP BAR PAINTED YELLOW (TYP.).
4. PROPOSED 4" WIDE YELLOW PAVEMENT/PARKING STRIPING (TYP.).

NOTES TO CONTRACTOR:

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12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SPRING ISD
T 281-891-6156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

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STRUCTURAL
SALTZ + ASSOCIATES
T 713-227-8881

MEP
SALAS O'BRIEN
T 281-664-1900

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3315 Gladeridge Dr, Houston, TX 77068

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

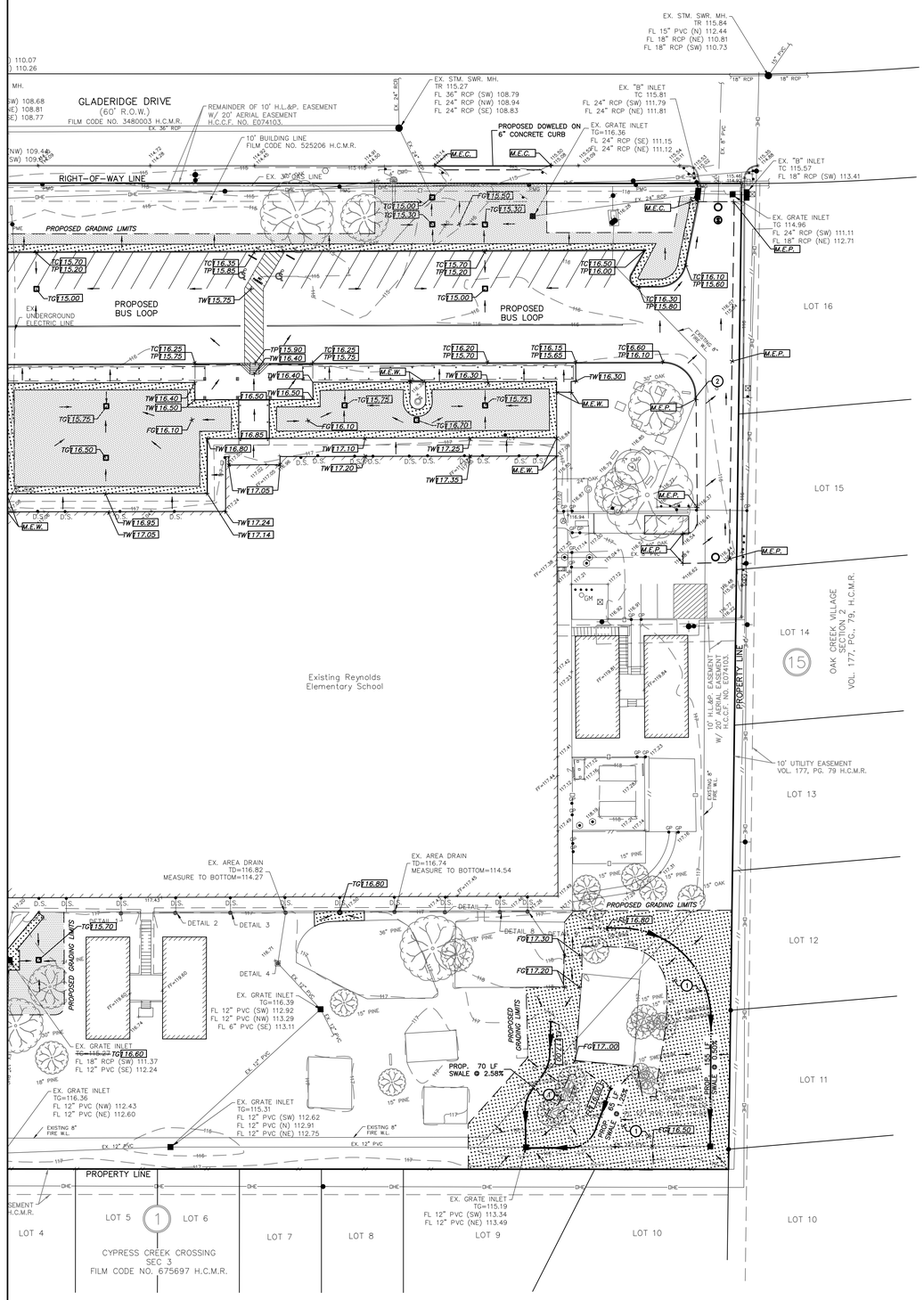
REVISIONS

NO.	DESCRIPTION	DATE

GRADING PLAN
(SHEET 1 OF 2)

C201

17 Oct 2025 8:40AM GregL
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Includes Xref(s): Xtb.dwg; X-Seal.dwg; Xtopo.dwg; Xsite.dwg; XGr.dwg; XUti.dwg



MATCH LINE (SEE SHEET C201)



FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 4802870455L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

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	PROP. COMMON BERMUDA HYDRO–MULCH ON 2" OF TOPSOIL (CONTRACTOR TO ESTABLISH 85% STAND OF GRASS BEFORE FINAL ACCEPTANCE).

KEY NOTES:

1. CONTRACTOR TO FILL DEPRESSED AREAS WITH TOP SOIL AND SLOPE AREA TO DRAIN TO PROPOSED SWALE/S OR TO EXISTING GRATE INLETS.
2. CONTRACTOR TO TRANSITION CONCRETE CURB FROM 6" TO 2" IN 2'.

NOTES TO CONTRACTOR:

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OWNER
SISD
T 281-884-1000

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REVISIONS

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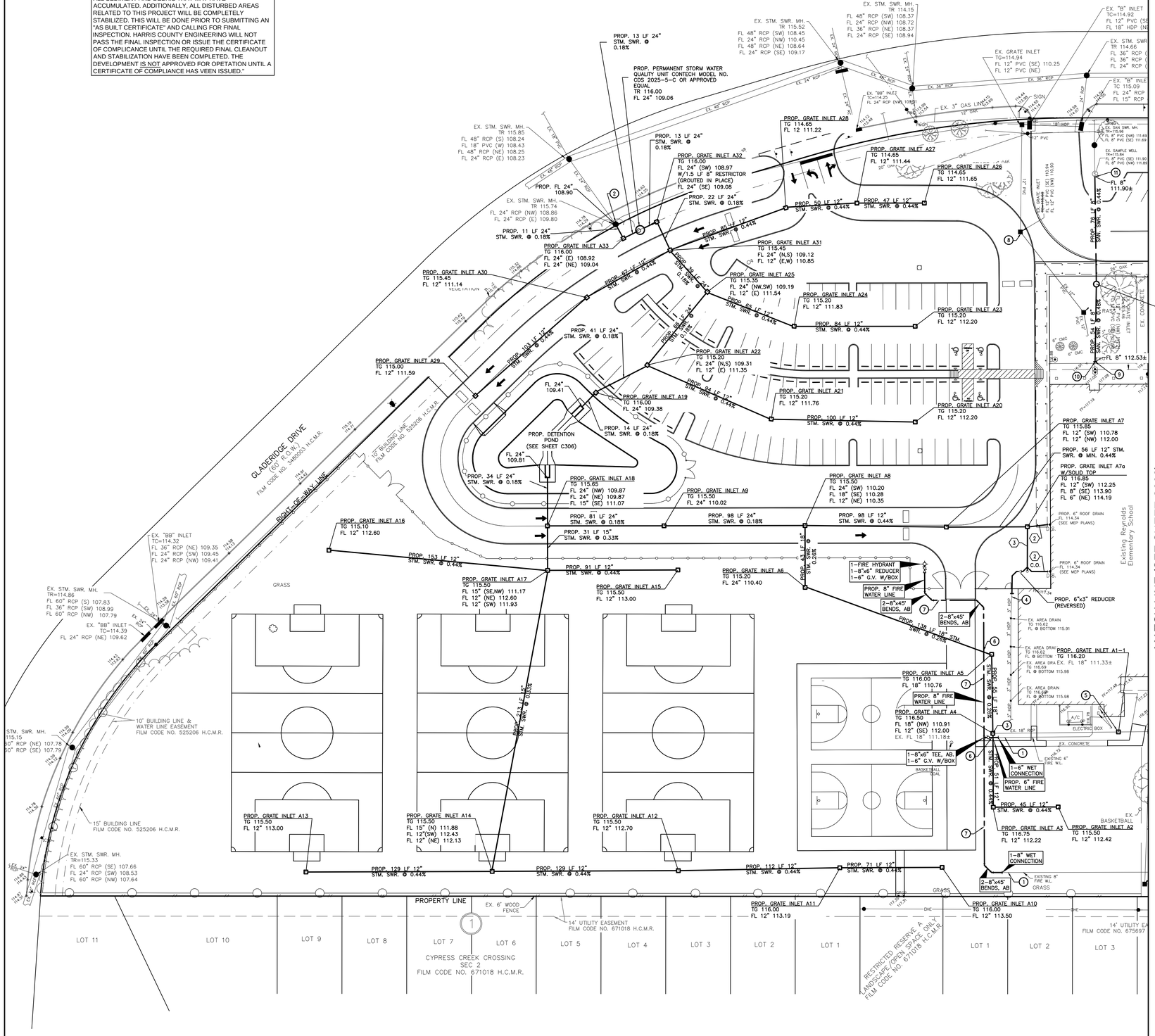
GRADING PLAN
(SHEET 2 OF 2)

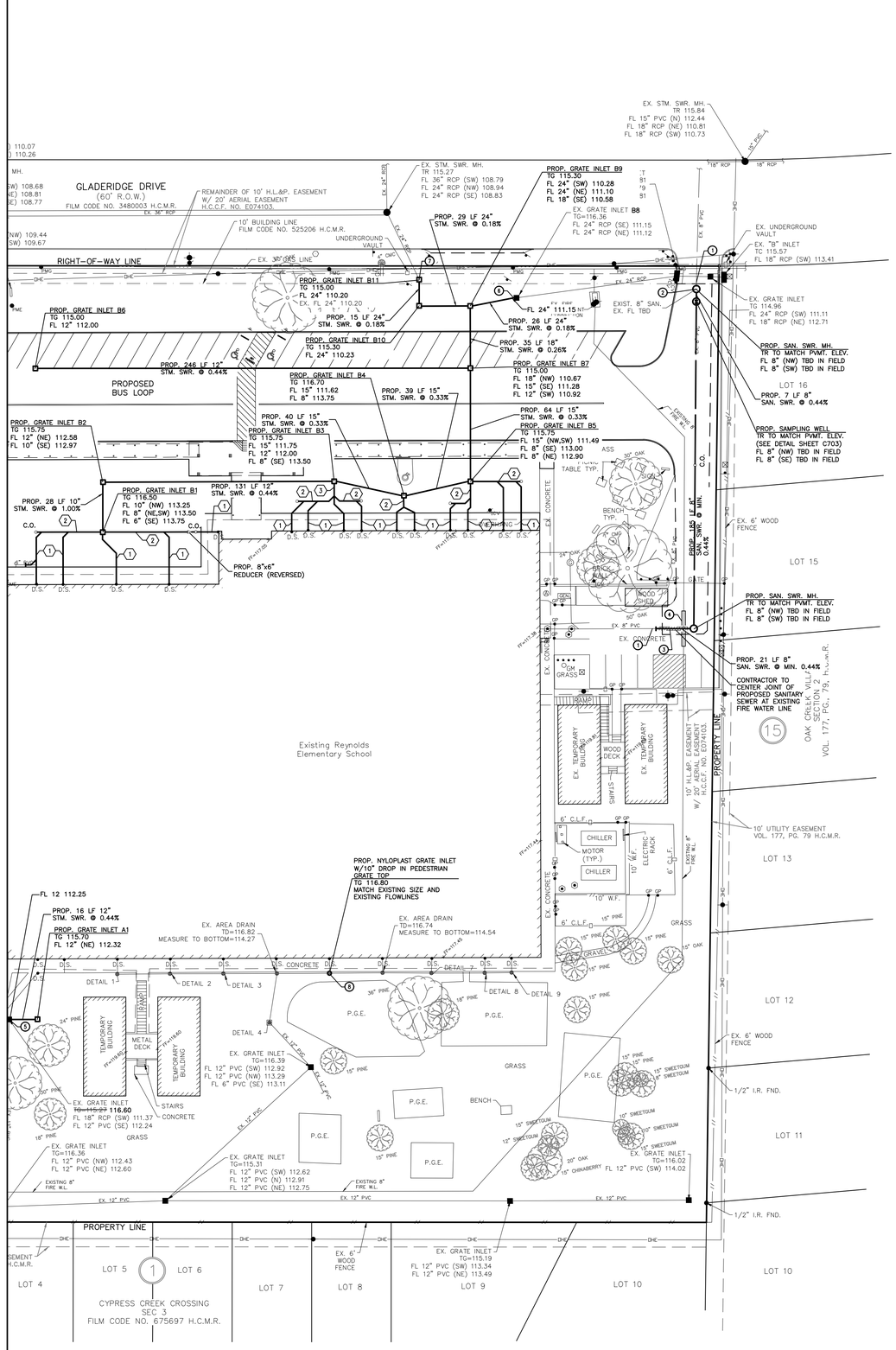
C202

17 Oct 2025 8:40AM GregL
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Includes Xref(s): Xtb.dwg; X-Seal.dwg; Xtopo.dwg; Xsite.dwg; XGr.dwg; XUti.dwg

"SWQMP PERMIT REQUIREMENTS"

"UPON COMPLETION OF CONSTRUCTION THE PERMANENT STORM WATER QUALITY FEATURE WILL BE CLEANED OF ALL SEDIMENT AND DEBRIS THAT MAY HAVE ACCUMULATED. ADDITIONALLY, ALL DISTURBED AREAS RELATED TO THIS PROJECT WILL BE COMPLETELY STABILIZED. THIS WILL BE DONE PRIOR TO SUBMITTING AN "AS BUILT CERTIFICATE" AND CALLING FOR FINAL INSPECTION. HARRIS COUNTY ENGINEERING WILL NOT PASS THE FINAL INSPECTION OR ISSUE THE CERTIFICATE OF COMPLICANCE UNTIL THE REQUIRED FINAL CLEANOUT AND STABILIZATION HAVE BEEN COMPLETED. THE DEVELOPMENT IS NOT APPROVED FOR OPETATION UNTIL A CERTIFICATE OF COMPLIANCE HAS VEEN ISSUED."


GLADERIDGE DRIVE
FILM CODE NO. 548003 H.C.M.R.
(60' R.O.W.)
RIGHT-OF-WAY LINE
10' BUILDING LINE
FILM CODE NO. 525206 H.C.M.R.
EX. STM. SWR. MH. TR=114.86 FL 48" RCP (S) 107.83 FL 36" RCP (SW) 108.99 FL 60" RCP (NW) 107.79
EX. "BB" INLET TC=114.39 FL 24" RCP (NE) 109.62
EX. STM. SWR. MH. TR=115.33 FL 60" RCP (SE) 107.66 FL 24" RCP (SW) 108.53 FL 60" RCP (NW) 107.64
STM. SWR. MH. 115.15 60" RCP (NE) 107.78 60" RCP (SE) 107.79
10' BUILDING LINE & WATER LINE EASEMENT FILM CODE NO. 525206 H.C.M.R.
15' BUILDING LINE FILM CODE NO. 525206 H.C.M.R.
GRASS
PROP. DETENTION POND (SEE SHEET C306)
PROP. PERMANENT STORM WATER QUALITY UNIT CONTECH MODEL NO. CDS 2025-5-C OR APPROVED EQUAL TR 116.00 FL 24" 109.06
PROP. 13 LF 24" STM. SWR. @ 0.18%
PROP. 13 LF 24" STM. SWR. @ 0.18%
PROP. 11 LF 24" STM. SWR. @ 0.18%
PROP. 14 LF 24" STM. SWR. @ 0.18%
PROP. 41 LF 24" STM. SWR. @ 0.18%
PROP. 34 LF 24" STM. SWR. @ 0.18%
PROP. 81 LF 24" STM. SWR. @ 0.18%
PROP. 98 LF 24" STM. SWR. @ 0.18%
PROP. 31 LF 15" STM. SWR. @ 0.33%
PROP. 153 LF 12" STM. SWR. @ 0.44%
PROP. 91 LF 12" STM. SWR. @ 0.44%
PROP. 129 LF 12" STM. SWR. @ 0.44%
PROP. 129 LF 12" STM. SWR. @ 0.44%
PROP. 112 LF 12" STM. SWR. @ 0.44%
PROP. 71 LF 12" STM. SWR. @ 0.44%
PROP. 100 LF 12" STM. SWR. @ 0.44%
PROP. 84 LF 12" STM. SWR. @ 0.44%
PROP. 65 LF 12" STM. SWR. @ 0.44%
PROP. 62 LF 12" STM. SWR. @ 0.44%
PROP. 107 LF 12" STM. SWR. @ 0.44%
PROP. 50 LF 12" STM. SWR. @ 0.44%
PROP. 47 LF 12" STM. SWR. @ 0.44%
PROP. 98 LF 12" STM. SWR. @ 0.44%
PROP. 84 LF 12" STM. SWR. @ 0.44%
PROP. 45 LF 12" STM. SWR. @ 0.44%
PROP. 211 LF 12" STM. SWR. @ 0.33%
PROP. 43 LF 18" STM. SWR. @ 0.20%
PROP. 139 LF 18" STM. SWR. @ 0.20%
PROP. 54 LF 18" STM. SWR. @ 0.20%
PROP. 5 LF 12" STM. SWR. @ 0.44%
PROP. 76 LF 8" SNW. SWR. @ 0.44%
PROP. GRATE INLET A1
TG 115.10
FL 12" 112.60
PROP. GRATE INLET A1-1
TG 116.00
FL 18" 111.33±
PROP. GRATE INLET A2
TG 115.50
FL 12" 112.42
PROP. GRATE INLET A3
TG 116.75
FL 12" 112.22
PROP. GRATE INLET A4
TG 116.50
FL 18" (NW) 110.91
FL 12" (SE) 112.00
EX. FL 18" 111.18±
PROP. GRATE INLET A5
TG 116.00
FL 18" 110.76
PROP. GRATE INLET A6
TG 115.20
FL 24" 110.40
PROP. GRATE INLET A7
TG 115.85
FL 12" (SW) 110.78
FL 12" (NW) 112.00
PROP. 56 LF 12" STM. SWR. @ MIN. 0.44%
PROP. GRATE INLET A7a W/SOLID TOP
TG 116.85
FL 12" (SW) 112.25
FL 8" (SE) 113.90
FL 6" (NE) 114.19
PROP. GRATE INLET A8
TG 115.50
FL 24" (SW) 110.20
FL 18" (SE) 110.28
FL 12" (NE) 110.35
PROP. GRATE INLET A9
TG 115.50
FL 24" 110.02
PROP. GRATE INLET A10
TG 116.00
FL 12" 113.50
PROP. GRATE INLET A11
TG 116.00
FL 12" 113.19
PROP. GRATE INLET A12
TG 115.50
FL 12" 112.70
PROP. GRATE INLET A13
TG 115.50
FL 12" 113.00
PROP. GRATE INLET A14
TG 115.50
FL 15" (N) 111.88
FL 12"(SW) 112.43
FL 12" (NE) 112.13
PROP. GRATE INLET A15
TG 115.50
FL 12" 113.00
PROP. GRATE INLET A16
TG 115.10
FL 12" 112.60
PROP. GRATE INLET A17
TG 115.50
FL 15" (SE,NW) 111.17
FL 12" (NE) 112.60
FL 12" (SW) 111.93
PROP. GRATE INLET A18
TG 115.65
FL 24" (NW) 109.87
FL 24" (NE) 109.87
FL 15" (SE) 111.07
PROP. GRATE INLET A19
TG 116.00
FL 24" 109.38
PROP. GRATE INLET A20
TG 115.20
FL 12" 112.20
PROP. GRATE INLET A21
TG 115.20
FL 12" 111.76
PROP. GRATE INLET A22
TG 115.20
FL 24" (N,S) 109.31
FL 12" (E) 111.35
PROP. GRATE INLET A23
TG 115.20
FL 12" 112.20
PROP. GRATE INLET A24
TG 115.20
FL 12" 111.83
PROP. GRATE INLET A25
TG 115.35
FL 24" (NW,SW) 109.19
FL 12" (E) 111.54
PROP. GRATE INLET A26
TG 114.65
FL 12" 111.65
PROP. GRATE INLET A27
TG 114.65
FL 12" 111.44
PROP. GRATE INLET A28
TG 114.65
FL 12 111.22
PROP. GRATE INLET A29
TG 115.00
FL 12" 111.59
PROP. GRATE INLET A30
TG 115.45
FL 12" 111.14
PROP. GRATE INLET A31
TG 115.45
FL 24" (N,S) 109.12
FL 12" (E,W) 110.85
PROP. GRATE INLET A32
TG 116.00
FL 24" (SW) 108.97
W/1.5 LF 8" RESTRICTOR (GROUTED IN PLACE)
FL 24" (SE) 109.08
PROP. GRATE INLET A33
TG 116.00
FL 24" (E) 108.92
FL 24" (NE) 109.04
PROP. FL 24" 108.90
PROP. 22 LF 24" STM. SWR. @ 0.18%
EX. STM. SWR. MH. TR 115.74 FL 24" RCP (NW) 108.86 FL 24" RCP (E) 109.80
EX. STM. SWR. MH. TR 115.85 FL 48" RCP (S) 108.24 FL 18" PVC (W) 108.43 FL 48" RCP (NE) 108.25 FL 24" RCP (E) 108.23
EX. STM. SWR. MH. TR 115.52 FL 48" RCP (SW) 108.45 FL 24" RCP (NW) 110.45 FL 48" RCP (NE) 108.64 FL 24" RCP (SE) 109.17
EX. STM. SWR. MH. TR 114.15 FL 48" RCP (SW) 108.37 FL 24" RCP (NW) 108.72 FL 36" RCP (NE) 108.37 FL 24" RCP (SE) 108.94
EX. "BB" INLET TC=114.25 FL 24" RCP (NW) 109.21
EX. GRATE INLET TG=114.94 FL 12" PVC (SE) 110.25 FL 12" PVC (NE)
EX. "B" INLET TC=114.92 FL 12" PVC (SE) FL 18" HDP (NE)
EX. STM. SWR TR 114.66 FL 36" RCP (FL 36" RCP (FL 24" RCP (
EX. "B" INLE TC 115.09 FL 24" RCP FL 15" RCP
EX. 3" GAS LINE
EX. SIGN
EX. SAMPLE WELL TR=115.84 FL 8" PVC (NW) 111.90 FL 8" PVC (SW) 111.90
EX. STM. SWR. MH. TR=115.96 FL 8" PVC (NW) 111.69 FL 8" PVC (SE) 111.69
8" 111.90±
FL 8" 112.53±
PROP. SAN. SWR. MH. TR SET 3" ABOVE FIN. GRADE FL 8" (NW) 112.23 FL 8" (SE) 112.27
EX. CONCRETE
EX. ASPHALT
EX. GRADE INLET TG=114.94 FL 12" PVC (SE) 110.94 FL 12" PVC (NW) 110.90
EX. 18" RCP
EX. 12" PVC
EX. 8" PVC
EX. 6" PVC
EX. 4" PVC
EX. 3" PVC
EX. 2" PVC
EX. 1" PVC
EX. 18" HDP
EX. 12" HDP
EX. 6" HDP
EX. 4" HDP
EX. 3" HDP
EX. 2" HDP
EX. 1" HDP
EX. 30" RCP
EX. 24" RCP
EX. 18" RCP
EX. 48" RCP
EX. 36" RCP
EX. 60" RCP
EX. 54" RCP
EX. 42" RCP
EX. 6" WOOD FENCE
EX. CHAIN LINK FENCE
EX. 8" SAN. SWR.
EX. 6" SAN. SWR.
EX. 4" SAN. SWR.
EX. 3" SAN. SWR.
EX. 2" SAN. SWR.
EX. 1" SAN. SWR.
EX. 8" WATER LINE
EX. 6" WATER LINE
EX. 4" WATER LINE
EX. 3" WATER LINE
EX. 2" WATER LINE
EX. 1" WATER LINE
EX. 8" GAS LINE
EX. 6" GAS LINE
EX. 4" GAS LINE
EX. 3" GAS LINE
EX. 2" GAS LINE
EX. 1" GAS LINE
EX. 8" FORCE MAIN
EX. 6" FORCE MAIN
EX. 4" FORCE MAIN
EX. 3" FORCE MAIN
EX. 2" FORCE MAIN
EX. 1" FORCE MAIN
EX. 8" STORM SEWER
EX. 6" STORM SEWER
EX. 4" STORM SEWER
EX. 3" STORM SEWER
EX. 2" STORM SEWER
EX. 1" STORM SEWER
EX. 8" FIRE W.L.
EX. 6" FIRE W.L.
EX. 4" FIRE W.L.
EX. 3" FIRE W.L.
EX. 2" FIRE W.L.
EX. 1" FIRE W.L.
EX. 8" CHILLED WATER
EX. 6" CHILLED WATER
EX. 4" CHILLED WATER
EX. 3" CHILLED WATER
EX. 2" CHILLED WATER
EX. 1" CHILLED WATER
EX. 8" HOT WATER
EX. 6" HOT WATER
EX. 4" HOT WATER
EX. 3" HOT WATER
EX. 2" HOT WATER
EX. 1" HOT WATER
EX. 8" CONDENSATE
EX. 6" CONDENSATE
EX. 4" CONDENSATE
EX. 3" CONDENSATE
EX. 2" CONDENSATE
EX. 1" CONDENSATE
EX. 8" GAS
EX. 6" GAS
EX. 4" GAS
EX. 3" GAS
EX. 2" GAS
EX. 1" GAS
EX. 8" FUEL OIL
EX. 6" FUEL OIL
EX. 4" FUEL OIL
EX. 3" FUEL OIL
EX. 2" FUEL OIL
EX. 1" FUEL OIL
EX. 8" STEAM
EX. 6" STEAM
EX. 4" STEAM
EX. 3" STEAM
EX. 2" STEAM
EX. 1" STEAM
EX. 8" STEAM CONDENSATE
EX. 6" STEAM CONDENSATE
EX. 4" STEAM CONDENSATE
EX. 3" STEAM CONDENSATE
EX. 2" STEAM CONDENSATE
EX. 1" STEAM CONDENSATE
EX. 8" CHILLED WATER RETURN
EX. 6" CHILLED WATER RETURN
EX. 4" CHILLED WATER RETURN
EX. 3" CHILLED WATER RETURN
EX. 2" CHILLED WATER RETURN
EX. 1" CHILLED WATER RETURN
EX. 8" HOT WATER RETURN
EX. 6" HOT WATER RETURN
EX. 4" HOT WATER RETURN
EX. 3" HOT WATER RETURN
EX. 2" HOT WATER RETURN
EX. 1" HOT WATER RETURN
EX. 8" CONDENSATE RETURN
EX. 6" CONDENSATE RETURN
EX. 4" CONDENSATE RETURN
EX. 3" CONDENSATE RETURN
EX. 2" CONDENSATE RETURN
EX. 1" CONDENSATE RETURN
EX. 8" GAS RETURN
EX. 6" GAS RETURN
EX. 4" GAS RETURN
EX. 3" GAS RETURN
EX. 2" GAS RETURN
EX. 1" GAS RETURN
EX. 8" FUEL OIL RETURN
EX. 6" FUEL OIL RETURN
EX. 4" FUEL OIL RETURN
EX. 3" FUEL OIL RETURN
EX. 2" FUEL OIL RETURN
EX. 1" FUEL OIL RETURN
EX. 8" STEAM RETURN
EX. 6" STEAM RETURN
EX. 4" STEAM RETURN
EX. 3" STEAM RETURN
EX. 2" STEAM RETURN
EX. 1" STEAM RETURN
EX. 8" STEAM CONDENSATE RETURN
EX. 6" STEAM CONDENSATE RETURN
EX. 4" STEAM CONDENSATE RETURN
EX. 3" STEAM CONDENSATE RETURN
EX. 2" STEAM CONDENSATE RETURN
EX. 1" STEAM CONDENSATE RETURN
EX. 8" CHILLED WATER SUPPLY
EX. 6" CHILLED WATER SUPPLY
EX. 4" CHILLED WATER SUPPLY
EX. 3" CHILLED WATER SUPPLY
EX. 2" CHILLED WATER SUPPLY
EX. 1" CHILLED WATER SUPPLY
EX. 8" HOT WATER SUPPLY
EX. 6" HOT WATER SUPPLY
EX. 4" HOT WATER SUPPLY
EX. 3" HOT WATER SUPPLY
EX. 2" HOT WATER SUPPLY
EX. 1" HOT WATER SUPPLY
EX. 8" CONDENSATE SUPPLY
EX. 6" CONDENSATE SUPPLY
EX. 4" CONDENSATE SUPPLY
EX. 3" CONDENSATE SUPPLY
EX. 2" CONDENSATE SUPPLY
EX. 1" CONDENSATE SUPPLY
EX. 8" GAS SUPPLY
EX. 6" GAS SUPPLY
EX. 4" GAS SUPPLY
EX. 3" GAS SUPPLY
EX. 2" GAS SUPPLY
EX. 1" GAS SUPPLY
EX. 8" FUEL OIL SUPPLY
EX. 6" FUEL OIL SUPPLY
EX. 4" FUEL OIL SUPPLY
EX. 3" FUEL OIL SUPPLY
EX. 2" FUEL OIL SUPPLY
EX. 1" FUEL OIL SUPPLY
EX. 8" STEAM SUPPLY
EX. 6" STEAM SUPPLY
EX. 4" STEAM SUPPLY
EX. 3" STEAM SUPPLY
EX. 2" STEAM SUPPLY
EX. 1" STEAM SUPPLY
EX. 8" STEAM CONDENSATE SUPPLY
EX. 6" STEAM CONDENSATE SUPPLY
EX. 4" STEAM CONDENSATE SUPPLY
EX. 3" STEAM CONDENSATE SUPPLY
EX. 2" STEAM CONDENSATE SUPPLY
EX. 1" STEAM CONDENSATE SUPPLY







FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 480287045SL), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110075 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110075 IS A BRASS DISK STAMPED 110075, LOCATED ON A "BB" INLET ON THE NORTHSIDE OF CONNERS ACE AT I"S INTERSECTION WITH WILDING WIMBLEDON. IN KEY 330R NEAR STREAM K100–00–00 IN THE CYPRESS CREEK WATERSHED. ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM"A" – BOX CUT ON THE NORTHEAST CORNER OF GRATE INLET LOCATED ±275 FEET, SOUTHEAST OF THE MOST WESTERLY DRIVEWAY INTO THE SCHOOL. ELEVATION = 116.22'

TBM"B" – BOX CUT ON EDGE OF SIDEWALK LOCATED ±9 FEET, SOUTHWEST OF THE NORTHEAST CORNER OF ASPHALT PARKING LOT ON THE SOUTH SIDE OF THE SCHOOL. ELEVATION = 116.03'

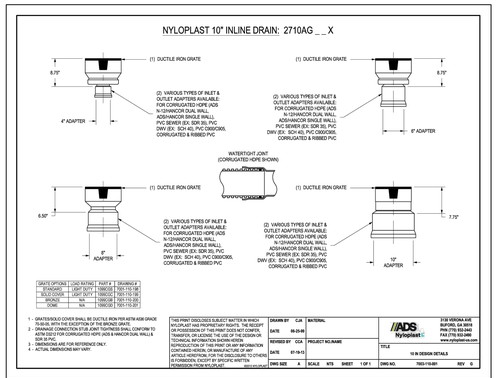
TBM"D" – BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE MOST EASTERLY LIGHT STANDARD NEAR THE NORTHEAST CORNER OF THE SCHOOL. ELEVATION = 118.88'

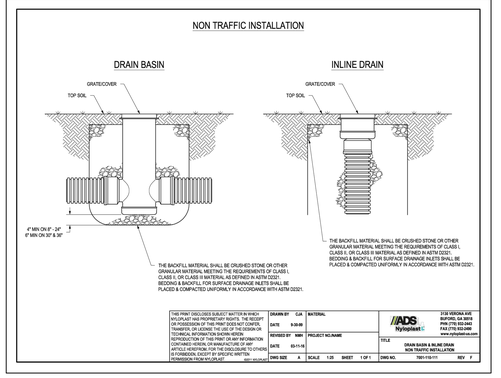
LEGEND:

- PROPOSED MANHOLE
- PROPOSED MANHOLE W/GRATE TOP
- PROPOSED GRATE/CURB INLET
- PROPOSED NYLOPLAST INLET
- DIRECTION OF FLOW
- FL FLOW LINE
- C.O. PROPOSED CLEANOUT
- (1) PROP. 6" STM. SWR. @ 1.00% MIN.
- (2) PROP. 8" STM. SWR. @ 1.00% MIN.
- (3) PROP. 10" STM. SWR. @ 1.00% MIN.

KEY NOTES:

1. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING SANITARY SEWER. IF CONFLICT ARISES CONTRACTOR TO CONTACT ENGINEER. CONTRACTOR TO DETERMINE FLOWLINE ELEVATION OF EXISTING SANITARY SEWER AND CONTACT ENGINEER IF CONFLICT ARISES.
2. CONTRACTOR TO CONSTRUCT PROPOSED SANITARY SEWER MANHOLE ON EXISTING 8" SANITARY SEWER WITH WATER–TIGHT GASKETED CONNECTIONS.
3. CONTRACTOR TO CONNECT PROPOSED SANITARY SEWER TO EXISTING SANITARY SEWER. CONTRACTOR TO MATCH EXISTING SIZE AND MATERIAL OF EXISTING SANITARY SEWER OUT TO FIRST INLET STRUCTURE (NO FERNCO COUPLERS ALLOWED).
4. IN THE EVENT OF CONFLICT WITH PROPOSED SANITARY SEWER AND EXISTING FIRE WATER LINE CONTRACTOR TO OFFSET EXISTING FIRE WATER LINE AT PROPOSED SANITARY SEWER MAINTAIN MINIMUM 2' VERTICAL CLEARANCE WHILE MAINTAIN MINIMUM 4' VERTICAL COVERAGE OVER OFFSET WATER LINE.
5. CONTRACTOR TO CONNECT PROPOSED 12" STORM SEWER TO EXISTING GRATE INLET WITH WATER TIGHT CONNECTIONS. CONTRACTOR TO ALSO RAISE EXISTING GRATE INLET TOP TO ELEVATION SHOWN ON PLANS. CONTRACTOR TO FILL IN AREA AROUND EXISTING GRATE INLET AND SLOPE FINISHED GRADE TO PROPOSED INLET TO THE EAST.
6. CONTRACTOR TO CONNECT PROPOSED 24" STORM SEWER TO EXISTING GRATE INLET WITH WATER TIGHT CONNECTION.
7. CONTRACTOR TO CONSTRUCT PROPOSED GRATE INLET ON EXISTING 24" STORM SEWER WITH WATER TIGHT CONNECTIONS.
8. CONTRACTOR TO INSTALL PROPOSED NYLOPLAST GRATE INLET WITH WATER TIGHT CONNECTIONS. CONTRACTOR TO CONNECT ALL EXISTING PIPING ENTERING AND EXISTING INLET. CONTRACTOR TO ADJUST SIZE AND TYPE OF INLET TO PROVIDE ALL NECESSARY CONNECTIONS TO EXISTING PIPE SIZES AND FLOWLINES (SEE DETAILS THIS SHEET).





ALL PROPOSED GRATE INLETS TO INSTALLED WITH PEDESTRIAN GRATE TOPS (MODEL NO. V4880-3)

NOTES TO CONTRACTOR:

1. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
2. THE LOCATION OF ALL UNDERGROUND UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING ANY WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES (SEE NOTE 6 GENERAL CONSTRUCTION NOTES).
3. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES (PRIVATE OR PUBLIC) IN THE FIELD PRIOR TO CONSTRUCTION. IF A CONFLICT IS DISCOVERED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

UTILITY ONE CALL

CONTRACTOR TO CALL BEFORE DIGGING !!!!
PHONE:
HOUSTON 811

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SISD
T 281-864-1000

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL & LANDSCAPING
BROOKS & SPARKS
T 281-679-6990

STRUCTURAL
SALTZ + ASSOCIATES
T 713-337-8881

MEP
SALAS O'BRIEN
T 281-664-1900

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3315 Gladeridge Dr. Houston, TX 77088

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

REVISIONS

NO.	DESCRIPTION	DATE

UTILITY PLAN
(SHEET 2 OF 2)

C302

17 Oct 2025 8:41AM GregL
F:\project\BROOK_SP\IN2 Architect\475-0001_Reynolds Elementary\Civil\C302 UTILITY PLAN 2.dwg
Includes Xref(s): Xtb.dwg; X-Seal.dwg; Xtopo.dwg; Xsite.dwg; XUtl.dwg

CONTECH ENGINEERED SOLUTIONS

HDS Size and Cost Estimate

Reynolds Elementary - Spring ISD
Houston, TX

Sizing Methodology:
The hydrodynamic separator (HDS) has been sized based on City of Houston / Harris County guidelines. A water quality flow rate is calculated using the Rational Method with a rainfall intensity of 0.27 inches/hour. The treatment capacity of the unit is the maximum flow rate at which the device is estimated to remove greater than 80% of sediment with a mean particle size of 240 microns.

Drainage Area Information:

	Rational Method Formula, C x i x A = Q			
Structure Name	Runoff Coefficient C	Rainfall [in/h] i	Catchment Area [acres] A	Water Quality Flowrate [cfs] Q
SWQ	0.80	0.27	9.05	1.95

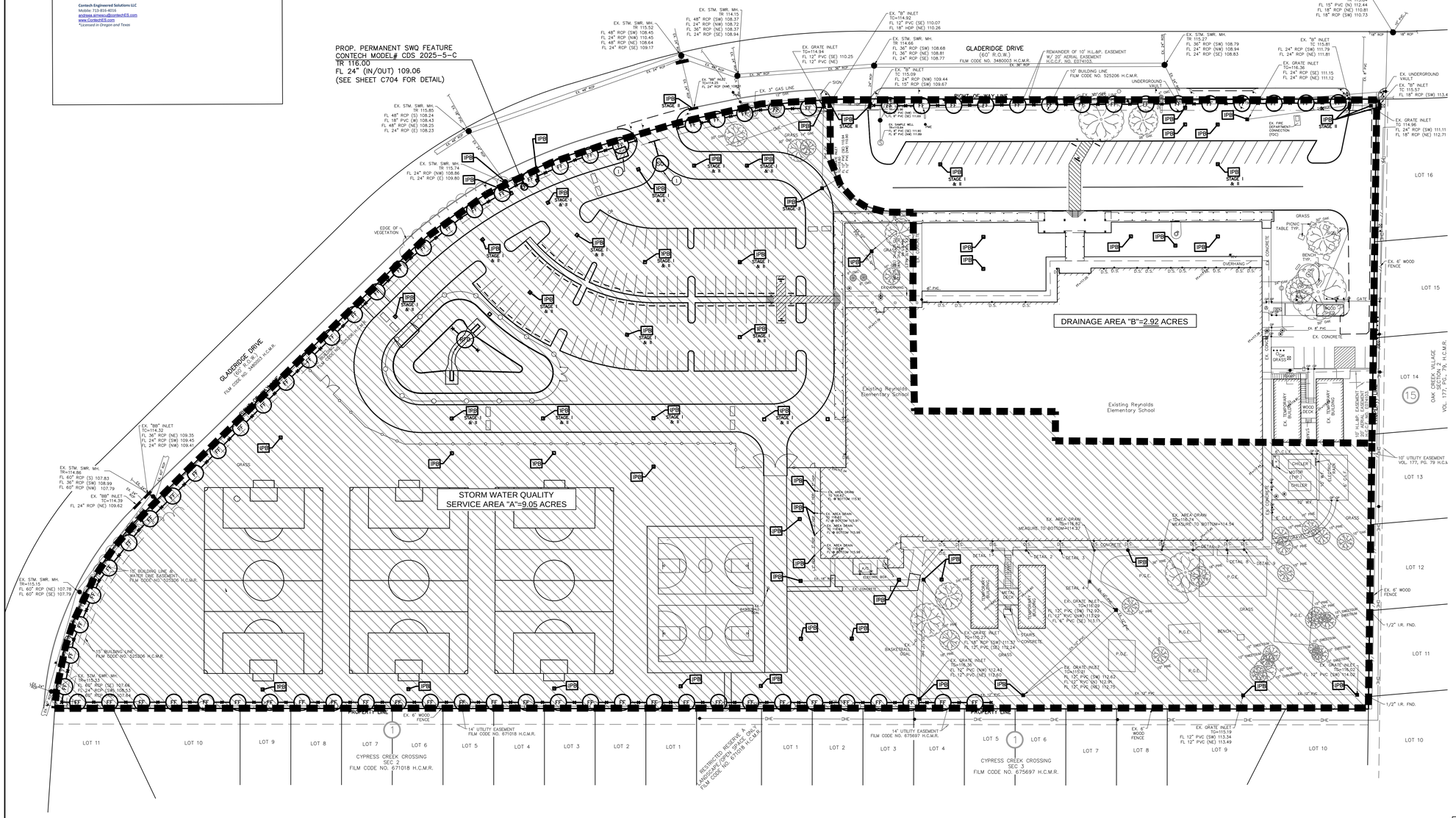
Proposed Structure Information:

Structure Name	Water Quality Flowrate [cfs] Q	Recommended HDS Model	Treatment Capacity [cfs]	Estimated Delivered Cost
SWQ	1.95	CDS2025-5	2.20	$33,000

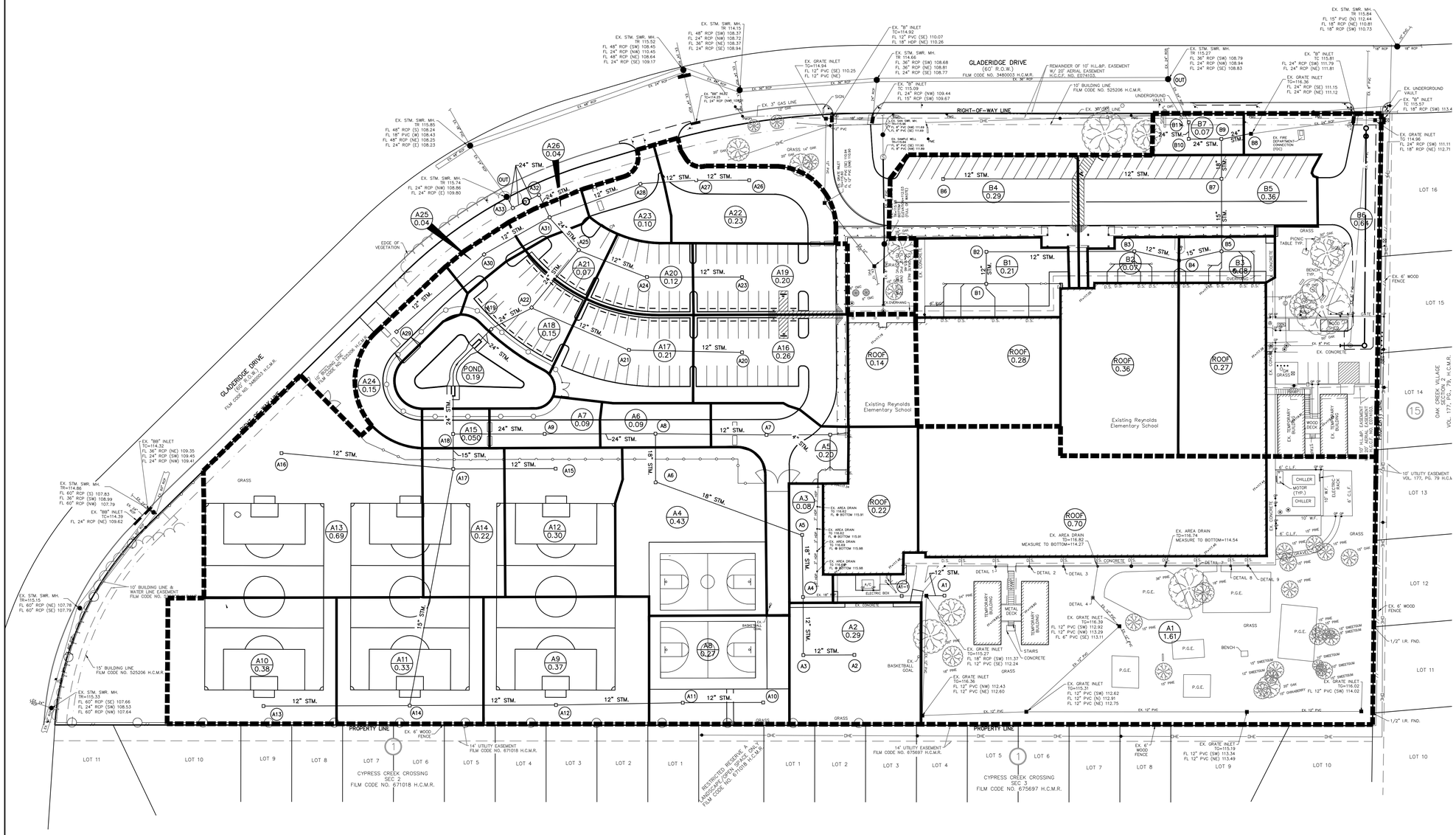
Sincerely,

Andreea Simescu, P.E.*
Stormwater Consultant

Contech Engineered Solutions LLC
Mobile: 713-816-4516
andreea.simescu@contechES.com
www.ContechES.com
*Licensed in Oregon and Texas


PROP. PERMANENT SWQ FEATURE
CONTECH MODEL# CDS 2025-5-C
TR 116.00
FL 24" (IN/OUT) 109.06
(SEE SHEET C704 FOR DETAIL)
GLADERIDGE DRIVE
FILM CODE NO. 348003 H.C.M.R.
RIGHT-OF-WAY LINE
DRAINAGE AREA "B"=2.92 ACRES
STORM WATER QUALITY
SERVICE AREA "A"=9.05 ACRES
Existing Reynolds Elementary School
CYPRESS CREEK CROSSING SEC 2
FILM CODE NO. 671018 H.C.M.R.
CYPRESS CREEK CROSSING SEC 3
FILM CODE NO. 675697 H.C.M.R.
PROPERTY LINE
LOT 16
LOT 15
LOT 14
LOT 13
LOT 12
LOT 11
LOT 10
LOT 9
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
LOT 1
EX. 6' WOOD FENCE
EX. 8' WOOD FENCE
EX. CONCRETE
EX. UNDERGROUND VAULT
EX. GRATE INLET
EX. "B" INLET
EX. STM. SWR. MH.
EX. 3" GAS LINE
EX. FIRE DEPARTMENT CONNECTION (FDC)
EX. SIGN
EX. BASKETBALL GOAL
EX. SIMPLE WELL
EX. AREA DRAIN
EX. CONCRETE HEADWALL
EX. 18" RCP
EX. 24" RCP
EX. 30" RCP
EX. 36" RCP
EX. 42" RCP
EX. 48" RCP
EX. 4" PVC
EX. 6" PVC
EX. 8" PVC
EX. 12" PVC
EX. 18" PVC
EX. 24" PVC
EX. 30" PVC
EX. 36" PVC
EX. 42" PVC
EX. 48" PVC
EX. 54" PVC
EX. 60" PVC
EX. 72" PVC
EX. 84" PVC
EX. 96" PVC
EX. 108" PVC
EX. 120" PVC
EX. 132" PVC
EX. 144" PVC
EX. 156" PVC
EX. 168" PVC
EX. 180" PVC
EX. 192" PVC
EX. 204" PVC
EX.

REFERENCE SHEET C305 FOR
2-YEAR AND 100-YEAR
DRAINAGE CALCULATIONS


GLADERIDGE DRIVE
(60' R.O.W.)
FILM CODE NO. 348003 H.C.M.R.
RIGHT-OF-WAY LINE
REMAINDER OF 10' H.L.&P. EASEMENT W/ 20' AERIAL EASEMENT H.C.C.F. NO. E074103
10' BUILDING LINE FILM CODE NO. 525206 H.C.M.R.
UNDERGROUND VAULT
EX. 30' GAS LINE
EX. 3" GAS LINE
SIGN
EX. "B" INLET TG=114.92 FL 12" PVC (SE) 110.07 FL 12" PVC (SW) 110.26 FL 18" HDP (NE) 110.26
EX. STM. SWR. MH. TR 114.66 FL 36" RCP (SW) 108.68 FL 36" RCP (NE) 108.81 FL 24" RCP (SE) 108.77
EX. "B" INLET TC 115.09 FL 24" RCP (NW) 109.44 FL 15" RCP (SW) 109.67
EX. GRATE INLET TG=114.94 FL 12" PVC (SE) 110.25 FL 12" PVC (NE)
EX. STM. SWR. MH. TR 115.52 FL 48" RCP (SW) 108.45 FL 24" RCP (NW) 110.45 FL 48" RCP (NE) 108.64 FL 24" RCP (SE) 109.17
EX. STM. SWR. MH. TR 115.85 FL 48" RCP (S) 108.24 FL 18" PVC (W) 108.43 FL 48" RCP (NE) 108.25 FL 24" RCP (E) 108.23
EX. STM. SWR. MH. TR 115.74 FL 24" RCP (NW) 108.86 FL 24" RCP (E) 109.80
EX. STM. SWR. MH. TR 114.15 FL 48" RCP (SW) 108.37 FL 24" RCP (SW) 108.72 FL 36" RCP (NE) 108.37 FL 24" RCP (SE) 108.94
EX. STM. SWR. MH. TR 115.27 FL 36" RCP (SW) 108.79 FL 24" RCP (NW) 108.94 FL 24" RCP (SE) 108.83
EX. STM. SWR. MH. TR 115.84 FL 15" PVC (N) 112.44 FL 18" RCP (NE) 110.81 FL 18" RCP (SW) 110.73
EX. "B" INLET TC 115.81 FL 24" RCP (SW) 111.79 FL 24" RCP (NE) 111.81
EX. GRATE INLET TG=116.36 FL 24" RCP (SE) 111.15 FL 24" RCP (NE) 111.12
EX. UNDERGROUND VAULT
EX. "B" INLET TC 115.57 FL 18" RCP (SW) 113.4
EX. GRATE INLET TG 114.96 FL 24" RCP (SW) 111.11 FL 18" RCP (NE) 112.71
EX. STM. SWR. MH. TR=115.33 FL 60" RCP (SE) 107.66 FL 24" RCP (SW) 108.53 FL 60" RCP (NW) 107.64
EX. STM. SWR. MH. TR=115.15 FL 60" RCP (NE) 107.78 FL 60" RCP (SE) 107.78
EX. "B" INLET TC=114.32 FL 36" RCP (NE) 109.35 FL 24" RCP (SW) 109.40 FL 24" RCP (NW) 109.47
EX. STM. SWR. MH. TR=114.86 FL 60" RCP (S) 107.83 FL 36" RCP (SW) 108.99 FL 60" RCP (NW) 107.79
EX. "BB" INLET TC=114.39 FL 24" RCP (NE) 109.62
EX. "BB" INLET TG=114.94 FL 24" RCP (NW) 109.67
EX. 6' WOOD FENCE
EX. 4' WOOD FENCE
EX. 6' C.L.F.
EX. CONCRETE
EX. GRASS
EX. TREE
EX. BENCH
EX. PICNIC TABLE TYP.
EX. FIRE DEPARTMENT CONNECTION (TYP.)
EX. GRATE INLET TO 114.96 FL 24" RCP (SW) 111.11 FL 18" RCP (NE) 112.71
EX. 6" PVC
EX. 8" PVC
EX. 4" PVC
EX. 12" PVC
EX. 15" PVC
EX. 18" PVC
EX. 24" RCP
EX. 30" RCP
EX. 36" RCP
EX. 48" RCP
EX. 60" RCP
EX. 18" STM.
EX. 24" STM.
EX. 30" STM.
EX. 36" STM.
EX. 48" STM.
EX. 60" STM.
EX. 12" STM.
EX. 15" STM.

Brooks & Sparks, Inc.
Consulting Engineering

STORM SEWER DESIGN

Project Information
Project: Reynolds Elementary School
Job No.: 475-0001
System: System "A"
Designed: — Date: 8/19/2025
Checked: GL Date: —

Min Cover (ft): 0.5
Match C or F: C
Min. Tc (min): —
Default n: 0.011
Default Junction K: 0.5

HGL Starting Elev. (ft): 110.86
Absolute Intensity (in/hr)
Design Storm: 2
b = 48.35
d = 9.07
e = 0.724

From M.H. /Inlet	To M.H. /Inlet	Area No.	Area (acres) Area Add. Cum.	C	Tc (min) Pipe Total	I (in/hr)	Cum Flow (cfs)	Pipe Shape (R/B)	Diam. or Rise (in) (ft)	n	Slope (%)	Design Velocity (ft/s)	Design Cap (cfs)	Dist. (ft) Cum Reach Start	Actual Velocity (ft/s)	HGL Slope (%)	Junction Loss (ft)	Change in HGL (ft)	Flowline Elev. Upstream (ft)	Crown Pipe Up (ft)	Top Grate Upstream (ft)	HGL Elev. Upstream (ft)	Flowline Elev. Downstrea (ft)	Crown Pipe Down (ft)	Top Grate Downstream (ft)	HGL Elev. Downstream (ft)
A1-A1-1	A4	A1	1.61 0.7 2.31	0.44	26.59	3.63	3.66	R	18	0.011	0.26	3.59	6.35	109	2.07	0.09	0.03	0.13	112.32	113.82	115.70	112.81	111.18	112.68	116.50	112.68
A2-A3	A4	A2	0.29 0.29	0.20	23.04	3.92	0.23	R	12	0.011	0.44	3.57	2.80	96	0.29	0.00	0.00	0.00	112.42	113.42	115.50	113.00	112.00	113.00	116.50	113.00
A4-A5	A6	A3	0.08 2.68	0.40	0.45 27.04	3.60	3.89	R	18	0.011	0.26	3.59	6.35	193	2.20	0.10	0.04	0.23	110.89	112.39	116.50	112.12	110.39	111.89	115.20	111.89
A6	A8	A4	0.43 3.11	0.40	0.90 27.93	3.53	4.45	R	18	0.011	0.26	3.59	6.35	43	2.52	0.13	0.05	0.10	110.39	111.89	115.20	111.69	110.28	111.78	115.50	111.58
A7	A8	A5	0.2 0.22 0.42	0.77	23.58	3.87	1.25	R	12	0.011	0.44	3.57	2.80	98	1.60	0.09	0.02	0.11	110.78	111.78	115.85	111.69	110.35	111.35	115.50	111.58
A8	A9	A6	0.09 3.53	0.46	0.20 28.13	3.52	5.68	R	24	0.011	0.18	3.62	11.37	98	1.81	0.04	0.03	0.07	110.19	112.19	115.50	111.58	110.02	112.02	115.50	111.51
A9	A18	A7	0.09 3.62	0.46	0.45 28.58	3.49	5.81	R	24	0.011	0.18	3.62	11.37	81	1.85	0.05	0.03	0.06	110.02	112.02	115.50	111.51	109.87	111.87	115.65	111.45
A10-A11	A12	A8	0.27 0.27	0.60	22.94	3.93	0.64	R	12	0.011	0.44	3.57	2.80	183	0.81	0.02	0.01	0.05	113.50	114.50	115.50	113.25	112.70	113.70	116.00	113.20
A12	A14	A9	0.37 0.64	0.37	0.86 23.80	3.85	0.91	R	12	0.011	0.44	3.57	2.80	129	1.16	0.05	0.01	0.07	112.70	113.70	115.50	113.20	112.13	113.13	115.50	113.13
A13	A14	A10	0.38 0.38	0.20	23.43	3.88	0.30	R	12	0.011	0.44	3.57	2.80	129	0.38	0.00	0.00	0.01	113.00	114.00	115.50	113.44	112.43	113.43	115.50	113.43
A14	A17	A11	0.33 1.35	0.28	23.80	3.85	1.46	R	15	0.011	0.33	3.58	4.40	213	1.19	0.04	0.01	0.09	111.88	113.13	115.50	112.47	111.17	112.42	115.50	112.38
A15	A17	A12	0.3 0.3	0.20	23.09	3.91	0.23	R	12	0.011	0.44	3.57	2.80	91	0.30	0.00	0.00	0.00	113.00	114.00	115.50	113.60	112.60	113.60	115.50	113.60
A16	A17	A13	0.69 0.69	0.20	24.37	3.80	0.52	R	12	0.011	0.44	3.57	2.80	153	0.67	0.02	0.00	0.03	112.60	113.60	115.10	112.96	111.93	112.93	115.50	112.93
A17	A18	A14	0.22 2.56	0.24	0.99 24.79	3.77	2.34	R	15	0.011	0.33	3.58	4.40	31	1.90	0.09	0.03	0.06	111.17	112.42	115.50	112.38	111.07	112.32	115.65	112.32
A18	POND	A15	0.05 6.23	0.37	0.37 28.96	3.47	8.03	R	24	0.011	0.18	3.62	11.37	34	2.55	0.09	0.05	0.08	109.87	111.87	115.65	111.45	109.81	111.81	115.50	111.37
POND	A19	POND	0.19 6.42	0.37	28.96	3.47	8.16	R	24	0.011	0.18	3.62	11.37	40	2.60	0.09	0.05	0.09	109.41	111.41	115.50	111.37	109.38	111.38	116.00	111.28
A19	A22	-	0 6.42	0.37	0.33 29.29	3.44	8.11	R	24	0.011	0.18	3.62	11.37	41	2.58	0.09	0.05	0.09	109.38	111.38	116.00	111.28	109.31	111.31	115.20	111.19
A20	A21	A16	0.26 0.14 0.4	0.76	23.51	3.88	1.17	R	12	0.011	0.44	3.57	2.80	100	1.49	0.08	0.02	0.09	112.20	113.20	115.20	112.86	111.76	112.76	115.20	112.76
A21	A22	A17	0.21 0.61	0.72	0.47 23.98	3.84	1.69	R	12	0.011	0.44	3.57	2.80	94	2.15	0.16	0.04	0.19	111.76	112.76	115.20	112.54	111.35	112.35	115.20	112.35
A22	A25	A18	0.15 7.18	0.40	0.19 29.48	3.43	9.94	R	24	0.011	0.18	3.62	11.37	66	3.16	0.14	0.08	0.17	109.31	111.31	115.20	111.38	109.19	111.19	115.35	111.21
A23	A24	A19	0.2 0.2	0.80	22.53	3.96	0.63	R	12	0.011	0.44	3.57	2.80	84	0.81	0.02	0.01	0.02	112.20	113.20	115.20	112.85	111.83	112.83	115.20	112.83
A24	A25	A20	0.12 0.32	0.80	0.39 23.18	3.90	1.00	R	12	0.011	0.44	3.57	2.80	65	1.27	0.06	0.01	0.05	111.83	112.83	115.20	112.59	111.54	112.54	115.35	112.54
A25	A31	A21	0.07 7.57	0.42	0.30 29.78	3.41	10.95	R	24	0.011	0.18	3.62	11.37	39	3.48	0.17	0.09	0.16	109.18	111.18	115.35	111.21	109.11	111.11	115.45	111.05
A26-A27	A28	A22	0.23 0.23	0.49	22.72	3.95	0.44	R	12	0.011	0.44	3.57	2.80	96	0.56	0.01	0.00	0.01	111.65	112.65	114.65	112.24	111.23	112.23	114.65	112.23
A28	A31	A23	0.1 0.33	0.49	0.45 23.17	3.91	0.63	R	12	0.011	0.44	3.57	2.80	86	0.80	0.02	0.00	0.02	111.23	112.23	114.65	111.87	110.85	111.85	115.45	111.85
A29	A30	A24	0.15 0.15	0.64	22.16	4.00	0.38	R	12	0.011	0.44	3.57	2.80	103	0.49	0.01	0.00	0.01	111.58	112.58	115.00	112.14	111.13	112.13	115.45	112.13
A30	A31	A25	0.04 0.19	0.67	0.48 22.64	3.95	0.51	R	12	0.011	0.44	3.57	2.80	66	0.64	0.01	0.00	0.01	111.13	112.13	115.45	66.01	110.84	111.84	115.45	66.00
A31	A32-OUT	A26	0.04 8.13	0.43	0.18 29.96	3.40	12.00	R	24	0.011	0.18	3.62	11.37	39	3.82	0.20	0.11	0.19	109.11	111.11	115.45	111.05	108.90	110.90	115.74	110.86

Brooks & Sparks, Inc.
Consulting Engineering

STORM SEWER DESIGN

Project Information
Project: Reynolds Elementary School
Job No.: 475-0001
System: System "A"
Designed: — Date: 8/19/2025
Checked: GL Date: —

Min Cover (ft): 0.5
Match C or F: C
Min. Tc (min): —
Default n: 0.011
Default Junction K: 0.5

HGL Starting Elev. (ft): 110.86
Absolute Intensity (in/hr)
Design Storm: 100
b = 60.66
d = 4.44
e = 0.520

From M.H. /Inlet	To M.H. /Inlet	Area No.	Area (acres) Area Add. Cum.	C	Tc (min) Pipe Total	I (in/hr)	Cum Flow (cfs)	Pipe Shape (R/B)	Diam. or Rise (in) (ft)	n	Slope (%)	Design Velocity (ft/s)	Design Cap (cfs)	Dist. (ft) Cum Reach Start	Actual Velocity (ft/s)	HGL Slope (%)	Junction Loss (ft)	Change in HGL (ft)	Flowline Elev. Upstream (ft)	Crown Pipe Up (ft)	Top Grate Upstream (ft)	HGL Elev. Upstream (ft)	Flowline Elev. Downstrea (ft)	Crown Pipe Down (ft)	Top Grate Downstream (ft)	HGL Elev. Downstream (ft)
A1-A1-1	A4	A1	1.61 0.7 2.31	0.44	26.59	10.18	10.26	R	18	0.011	0.26	3.59	6.35	109	5.81	0.68	0.26	1.00	112.32	113.82	115.70	117.95	111.18	112.68	116.50	116.95
A2-A3	A4	A2	0.29 0.29	0.20	23.04	10.84	0.63	R	12	0.011	0.44	3.57	2.80	96	0.80	0.02	0.00	0.03	112.42	113.42	115.50	116.97	112.00	113.00	116.50	116.95
A4-A5	A6	A3	0.08 2.68	0.40	0.45 27.04	10.11	10.93	R	18	0.011	0.26	3.59	6.35	193	6.19	0.77	0.30	1.79	110.89	112.39	116.50	116.95	110.39	111.89	115.20	115.16
A6	A8	A4	0.43 3.11	0.40	0.90 27.93	9.96	12.53	R	18	0.011	0.26	3.59	6.35	43	7.09	1.01	0.39	0.83	110.39	111.89	115.20	115.16	110.28	111.78	115.50	114.34
A7	A8	A5	0.2 0.22 0.42	0.77	23.58	10.73	3.48	R	12	0.011	0.44	3.57	2.80	98	4.43	0.68	0.15	0.82	110.78	111.78	115.85	115.15	110.35	111.35	115.50	114.34
A8	A9	A6	0.09 3.53	0.46	0.20 28.13	9.93	16.02	R	24	0.011	0.18	3.62	11.37	98	5.10	0.36	0.20	0.55	110.19	112.19	115.50	114.34	110.02	112.02	115.50	113.78
A9	A18	A7	0.09 3.62	0.46	0.45 28.58	9.86	16.41	R	24	0.011	0.18	3.62	11.37	81	5.23	0.37	0.21	0.52	110.02	112.02	115.50	113.78	109.87	111.87	115.65	113.27
A10-A11	A12	A8	0.27 0.27	0.60	22.94	10.86	1.76	R	12	0.011	0.44	3.57	2.80	183	2.24	0.17	0.04	0.36	113.50	114.50	115.50	115.29	112.70	113.70	116.00	114.93
A12	A14	A9	0.37 0.64	0.37	0.86 23.80	10.69	2.52	R	12	0.011	0.44	3.57	2.80	129	3.21	0.36	0.08	0.54	112.70	113.70	115.50	114.93	112.13	113.13	115.50	114.39
A13	A14	A10	0.38 0.38	0.20	23.43	10.76	0.82	R	12	0.011	0.44	3.57	2.80	129	1.04	0.04	0.01	0.06	113.00	114.00	115.50	114.45	112.43	113.43	115.50	114.39
A14	A17	A11	0.33 1.35	0.28	23.80	10.69	4.04	R	15	0.011	0.33	3.58	4.40	213	3.29	0.28	0.08	0.68	111.88	113.13	115.50	114.39	111.17	112.42	115.50	113.71
A15	A17	A12	0.3 0.3	0.20	23.09	10.83	0.65	R	12	0.011	0.44	3.57	2.80	91	0.83	0.02	0.01	0.03	113.00	114.00	115.50	113.63	112.60	113.60	115.50	113.60
A16	A17	A13	0.69 0.69	0.20	24.37	10.58	1.46	R	12	0.011	0.44	3.57	2.80	153	1.86	0.12	0.03	0.21	112.60	113.60	115.10	113.92	111.93	112.93	115.50	113.71
A17	A18	A14	0.22 2.56	0.24	0.99 24.79	10.50	6.51	R	15	0.011	0.33	3.58	4.40	31	5.31	0.72	0.22	0.44	111.17	112.42	115.50	113.71	111.07	112.32	115.65	113.27
A18	POND	A15	0.05 6.23	0.37	0.37 28.96	9.80	22.69	R	24	0.011	0.18	3.62	11.37	34	7.22	0.72	0.41	0.65	109.87	111.87	115.65	113.27	109.81	111.81	115.50	112.62
POND	A19	POND	0.19 6.42	0.37	28.96	9.80	23.07	R	24	0.011	0.18	3.62	11.37	40	7.34	0.74	0.42	0.71	109.41	111.41	115.50	112.62	109.38	111.38	116.00	111.90
A19	A22	-	0 6.42	0.37	0.33 29.29	9.75	22.95	R	24	0.011	0.18	3.62	11.37	41	7.30	0.73	0.41	0.71	109.38	111.38	116.00	111.90	109.31	111.31	115.20	111.19
A20	A21	A16	0.26 0.14 0.4	0.76	23.51	10.75	3.25	R	12	0.011	0.44	3.57	2.80	100	4.13	0.59	0.13	0.72	112.20	113.20	115.20	114.51	111.76	112.76	115.20	113.79
A21	A22	A17	0.21 0.61	0.72	0.47 23.98	10.66	4.69	R	12	0.011	0.44	3.57	2.80	94	5.97	1.23	0.28	1.44	111.76	112.76	115.20	113.79	111.35	112.35	115.20	112.35
A22	A25	A18	0.15 7.18	0.40	0.19 29.48	9.72	28.15	R	24	0.011	0.18	3.62	11.37	66	8.96	1.10	0.62	1.35	109.31	111.31	115.20	115.03	109.19	111.19	115.35	113.68
A23	A24	A19	0.2 0.2	0.80	22.53	10.95	1.75	R	12	0.011	0.44	3.57	2.80	84	2.23	0.17	0.04	0.18	112.20	113.20	115.20	113.01	111.83	112.83	115.20	112.83
A24	A25	A20	0.12 0.32	0.80	0.39 23.18	10.82	2.77	R	12	0.011	0.44	3.57	2.80	65	3.53	0.43	0.10	0.38	111.83	112.83	115.20	114.06	111.54	112.54	115.35	113.68
A25	A31	A21	0.07 7.57	0.42	0.30 29.78	9.68	31.04	R	24	0.011	0.18	3.62	11.37	39	9.88	1.34	0.76	1.28	109.18	111.18	115.35	113.68	109.11	111.11	115.45	112.40
A26-A27	A28	A22	0.23 0.23	0.49	22.72	10.91	1.22	R	12	0.011	0.44	3.57	2.80	96	1.56	0.08	0.02	0.10	111.65	112.65	114.65	112.33	111.23	112.23	114.65	112.23
A28	A31	A23	0.1 0.33	0.49	0.45 23.17	10.82	1.73	R	12	0.011	0.44	3.57	2.80	86	2.21	0.17	0.04	0.18	111.23	112.23	114.65	112.03	110.85	111.85	115.45	111.85
A29	A30	A24	0.15 0.15	0.64	22.16	11.03	1.06	R	12	0.011	0.44	3.57	2.80	103	1.35	0.06	0.01	0.08	111.58	112.58	115.00	112.21	111.13	112.13	115.45	112.13
A30	A31	A25	0.04 0.19	0.67	0.48 22.64	10.93	1.40	R	12	0.011	0.44	3.57	2.80	66	1.78	0.11	0.02	0.10	111.13	112.13	115.45	66.10	110.84	111.84	115.45	66.00
A31	A32-OUT	A26	0.04 8.13	0.43	0.18 29.96	9.65	34.04	R	24	0.011	0.18	3.62	11.37	39	10.84	1.61	0.91	1.54	109.11	111.11	115.45	112.40	108.90	110.90	115.74	110.86

EXISTING DRAINAGE AREA–9.05 ACRES (AREA CURRENTLY FLOWING TO GLADRIDGE DR.
PER CITY OF HOUSTON CRITERIA
TOTAL AREA = 9.05 ACRES

Tc= 10A^.1761+15
Tc= 10 (9.05)^.1761+15
Tc= 29.74
COH– 2 YEAR EVENT

$$IA2 = \frac{48.35}{(9.07+29.74)^{.7244}}$$

IA2= 3.55 in/hr

COH WEIGHTED "C"
C= 0.6(2.61/9.05)+0.2
C= 0.373

QA2= CIA
QA2= 0.373*3.55*9.05
QA2= 11.98 CFS

EXISTING DRAINAGE AREA–2.92 ACRES (AREA CURRENTLY FLOWING TO GLADRIDGE DR.
PER CITY OF HOUSTON CRITERIA
TOTAL AREA = 2.92 ACRES

Tc= 10A^.1761+15
Tc= 10 (2.92)^.1761+15
Tc= 27.07
COH– 2 YEAR EVENT

$$IA2 = \frac{48.35}{(9.07+27.07)^{.7244}}$$

IA2= 3.59 in/hr

COH WEIGHTED "C"
C= 0.6(2.00/2.92)+0.2
C= 0.610

QA2= CIA
QA2= 0.610*3.59*2.92
QA2= 6.39 CFS

TOTAL EXISTING FLOW TO GLADERIDGE DRIVE
11.98+6.39 =18.37 CFS (2 YEAR)

PROPOSED DRAINAGE AREA–2.92 ACRES (AREA FLOWING TO GLADRIDGE DR.
PER CITY OF HOUSTON CRITERIA
TOTAL AREA = 2.92 ACRES

Tc= 10A^.1761+15
Tc= 10 (2.92)^.1761+15
Tc= 27.07
COH– 2 YEAR EVENT

$$IA2 = \frac{48.35}{(9.07+27.07)^{.7244}}$$

IA2= 3.59 in/hr

COH WEIGHTED "C"
C= 0.65

QA2= CIA
QA2= 0.65*3.73*2.92
QA2= 11.54 CFS

TOTAL PROPOSED ALLOWABLE FLOW TO GLADERIDGE DRIVE FOR SYSTEM A

18.37–11.54 = 6.83 CFS (2 YEAR)

Brooks & Sparks, Inc.
Consulting Engineering

STORM SEWER DESIGN

Project Information
Project: Reynold Elem. School
Job No.: 475-0001
System: System "B"
Designed: GL Date: 8/20/2025
Checked: GL Date: 8/20/2025

Min Cover (ft): 0.5
Match C or F: C
Min. Tc (min): —
Default n: 0.011
Default Junction K: 0.5

HGL Starting Elev. (ft): 110.30
Absolute Intensity (in/hr)
Design Storm: 2
b = 48.35
d = 9.07
e = 0.724

From M.H. /Inlet	To M.H. /Inlet	Area No.	Area (acres) Area Add. Cum.	C	To (min) Pipe Total	I (in/hr)	Cum Flow (cfs)	Pipe Shape (R/B)	Diam. or Rise (in) (ft)	n	Slope (%)	Design Velocity (ft/s)	Design Cap (cfs)	Dist. (ft) Cum Reach Start	Actual Velocity (ft/s)	HGL Slope (%)	Junction Loss (ft)	Change in HGL (ft)	Flowline Elev. Upstream (ft)	Crown Pipe Up (ft)	Top Grate Upstream (ft)	HGL Elev. Upstream (ft)	Flowline Elev. Downstrea (ft)	Crown Pipe Down (ft)	Top Grate Downstream (ft)	HGL Elev. Downstream (ft)
B1-B2	B3	B1	0.21 0.28 0.49	0.49	23.82	3.85	0.92	R	12	0.011	0.44	3.57	2.80	131	1.18	0.05	0.01	0.07	112.58	113.58	115.75	113.07	112.00	113.00	115.75	113.00
B3	B4	B2	0.07 0.38 0.92	0.60	0.61 24.43	3.80	2.10	R	15	0.011	0.33	3.58	4.40	40	1.71	0.08	0.02	0.05	111.75	113.00	115.75	112.92	111.62	112.87	116.70	112.87
B4	B5	-	0 0.92	0.60	0.19 24.62	3.78	2.09	R	15	0.011	0.33	3.58	4.40	39	1.71	0.07	0.02	0.05	111.62	112.87	116.70	112.79	111.49	112.74	115.75	112.74
B5	B7	B3	0.08 0.27 1.27	0.57	0.18 24.80	3.77	2.75	R	15	0.011	0.33	3.58	4.40	64	2.24	0.13	0.04	0.12	111.49	112.74	115.75	112.66	111.29	112.54	115.00	112.54
B6	B7	B4	0.29 0.29	0.80	23.04	3.92	0.91	R	12	0.011	0.44	3.57	2.80	246	1.16	0.05	0.01	0.12	112.00	113.00	115.00	112.44	110.92	111.92	115.00	112.32
B7	B9	B6	0.36 1.92	0.40	0.30 25.10	3.75	2.90	R	18	0.011	0.26	3.59	6.35	34	1.64	0.05	0.02	0.04	110.67	112.17	115.00	112.32	110.58	112.08	115.30	112.28
B8	B9	B7	0.64 0.64	0.55	24.24	3.81	1.33	R	24	0.011	0.18	3.62	11.37	26	0.42	0.00	0.00	0.00	111.15	113.15	116.36	113.10	111.10	113.10	115.30	113.10
B9	B10	B7	0 2.56	0.62	0.16 25.25	3.73	5.97	R	24	0.011	0.18	3.62	11.37	29	1.90	0.05	0.03	0.04	110.28	112.28	115.30	112.28	110.23	112.23	115.30	112.24
B10	B11	B8	0 2.56	0.62	0.13 25.39	3.72	5.95	R	24	0.011	0.18	3.62	11.37	15	1.89	0.05	0.03	0.04	110.23	112.23	115.30	112.24	110.20	112.20	115.00	112.20
B11	OUT	-	0.07 2.63	0.61	0.07 25.46	3.72	5.99	R	24	0.011	0.18	3.62	11.37	42	1.91	0.05	0.03	0.05	110.20	112.20	115.00	110.35	108.30	110.30	115.27	110.30

Brooks & Sparks, Inc.
Consulting Engineering

STORM SEWER DESIGN

Project Information
Project: Reynold Elem. School
Job No.: 475-0001
System: System "B"
Designed: GL Date: 8/20/2025
Checked: GL Date: 8/20/2025

Min Cover (ft): 0.5
Match C or F: C
Min. Tc (min): —
Default n: 0.011
Default Junction K: 0.5

HGL Starting Elev. (ft): 110.30
Absolute Intensity (in/hr)
Design Storm: 100
b = 60.66
d = 4.44
e = 0.520

From M.H. /Inlet	To M.H. /Inlet	Area No.	Area (acres) Area Add. Cum.	C	Tc (min) Pipe Total	I (in/hr)	Cum Flow (cfs)	Pipe Shape (R/B)	Diam. or Rise (in) (ft)	n	Slope (%)	Design Velocity (ft/s)	Design Cap (cfs)	Dist. (ft) Cum Reach Start	Actual Velocity (ft/s)	HGL Slope (%)	Junction Loss (ft)	Change in HGL (ft)	Flowline Elev. Upstream (ft)	Crown Pipe Up (ft)	Top Grate Upstream (ft)	HGL Elev. Upstream (ft)	Flowline Elev. Downstrea (ft)	Crown Pipe Down (ft)	Top Grate Downstream (ft)	HGL Elev. Downstream (ft)
B1-B2	B3	B1	0.21 0.28 0.49	0.49	23.82	10.69	2.57	R	12	0.011	0.44	3.57	2.80	131	3.27	0.37	0.08	0.57	112.58	113.58	115.75	115.43	112.00	113.00	115.75	114.86
B3	B4	B2	0.07 0.38 0.92	0.60	0.61 24.43	10.57	5.85	R	15	0.011	0.33	3.58	4.40	40	4.77	0.58	0.18	0.41	111.75	113.00	115.75	114.86	111.62	112.87	116.70	114.45
B4	B5	-	0 0.92	0.60	0.19 24.62	10.53	5.83	R	15	0.011	0.33	3.58	4.40	39	4.75	0.58	0.18	0.40	111.62	112.87	116.70	114.45	111.49	112.74	115.75	114.05
B5	B7	B3	0.08 0.27 1.27	0.57	0.18 24.80	10.50	7.65	R	15	0.011	0.33	3.58	4.40	64	6.23	1.00	0.30	0.94	111.49	112.74	115.75	114.05	111.29	112.54	115.00	113.11
B6	B7	B4	0.29 0.29	0.80	23.04	10.84	2.52	R	12	0.011	0.44	3.57	2.80	246	3.20	0.36	0.08	0.95	112.00	113.00	115.00	114.06	110.92	111.92	115.00	113.11
B7	B9	B6	0.36 1.92	0.40	0.30 25.10	10.44	8.08	R	18	0.011	0.26	3.59	6.35	34	4.57	0.42	0.16	0.31	110.67	112.17	115.00	113.11	110.58	112.08	115.30	112.80
B8	B9	B7	0.64 0.64	0.55	24.24	10.61	3.71	R	24	0.011	0.18	3.62	11.37	26	1.18	0.02	0.01	0.02	111.15	113.15	116.36	113.12	111.10	113.10	115.30	113.10
B9	B10	B7	0 2.56	0.62	0.16 25.25	10.42	16.65	R	24	0.011	0.18	3.62	11.37	29	5.30	0.39	0.22	0.33	110.28	112.28	115.30	112.80	110.23	112.23	115.30	112.47
B10	B11	B8	0 2.56	0.62	0.13 25.39	10.39	16.61	R	24	0.011	0.18	3.62	11.37	15	5.29	0.38	0.22	0.27	110.23	112.23	115.30	112.47	110.20	112.20	115.00	112.20
B11	OUT	-	0.07 2.63	0.61	0.07 25.46	10.38	16.74	R	24	0.011	0.18	3.62	11.37	42	5.33	0.39	0.22	0.38	110.20	112.20	115.00	110.68	108.30	110.30	115.27	110.30

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972-427-1222 / www.in2arch.com

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SPRINGTED
T 281-891-8156

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COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

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T 281-579-9595

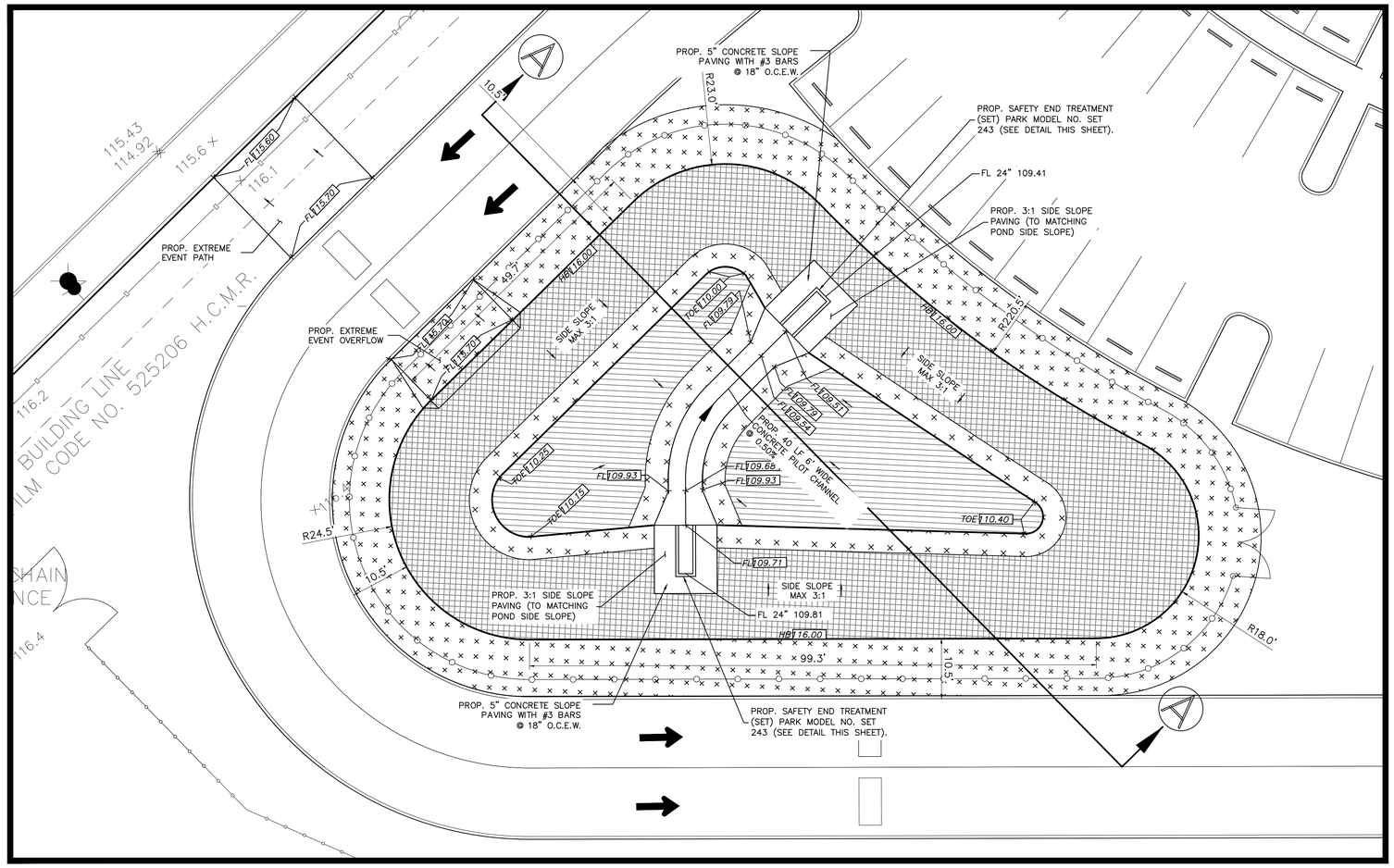
STRUCTURAL
DALLY + ASSOCIATES
T 713-337-3883

MEP
SACALA O'NEIL
T 281-664-1300

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladebridge Dr. Houston, TX 77068

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROO



DETENTION SUMMARY

1. TOTAL ACREAGE OF SITE DRAINING TO POND 9.05 ACRES
2. TOTAL INCREASED IMPERVIOUS AREA SUBJECT TO DETENTION 0.686 ACRES
3. DETENTION STORAGE RATE= 0.75 AC.FT./AC
4. DETENTION STORAGE VOLUME REQUIRED 0.515 AC.FT
5. 100-YR DESIGN WATER SURFACE ELEVATION= 115.50 FT.
6. TOTAL STORAGE VOLUME PROVIDED AT WATER SURFACE ELEVATION 115.50 = 0.596 AC.FT.
7. MAXIMUM OUTFALL RATE ALLOWED (AREA A) 6.83* CFS
8. PROVIDE MINIMUM RESTRICTOR SIZE = 8 INCHES
9. MAXIMUM OUTFALL WITH MIN. 8" RESTRICTOR = 5.82 CFS

* REFER TO FLOW CALCULATIONS ON SHEET C305 FOR MAXIMUM ALLOWED RATE DETERMINATION.

DETENTION BASIN SHALL BE PROPERLY OPERATED AND MAINTAINED BY PROPERTY OWNER.

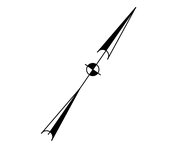
RESTRICTOR SIZING

D = ORIFICE DIAMETER (FEET)
H = HEAD, WATER SURFACE DIFFERENTIAL(FEET)
G = GRAVITATIONAL FACTOR (32.2)
A = ORIFICE AREA SQUARE FEET
C = COEFFICIENT OF DISCHARGE (0.8)
Q = OUTFLOW DISCHARGE

$D = Q^{(1/2)}/(2.25*H^{(1/4)})$
$D = 6.83^{(1/2)}/(2.25*6.64^{(1/4)})$
$D = 0.700"$

USING MINIMUM 8" RESTRICTOR

$Q = CA\sqrt{2GH}$
$Q = (0.8)(0.352)\sqrt{2(32.2)(6.64)}$
$Q = 5.82$ CFS



SCALE: 1"= 10'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY-PANEL NO. 480287-0455L), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

REFERENCE BENCHMARK:

RM110075 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 110075 IS A BRASS DISK STAMPED 110075, LOCATED ON A "BB" INLET ON THE NORTHSIDE OF CONNERS ACE AT IT'S INTERSECTION WITH WILDING WIMBLEDON, IN KEY 330R NEAR STREAM K100-00-00 IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM"A" – BOX CUT ON THE NORTHEAST CORNER OF GRATE INLET LOCATED ±275 FEET, SOUTHEAST OF THE MOST WESTERLY DRIVEWAY INTO THE SCHOOL.
ELEVATION = 116.22'

TBM"B" – BOX CUT ON EDGE OF SIDEWALK LOCATED ±9 FEET, SOUTHWEST OF THE NORTHEAST CORNER OF ASPHALT PARKING LOT ON THE SOUTH SIDE OF THE SCHOOL.
ELEVATION = 116.03'

TBM"D" – BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE MOST EASTERLY LIGHT STANDARD NEAR THE NORTHEAST CORNER OF THE SCHOOL.
ELEVATION = 118.88'

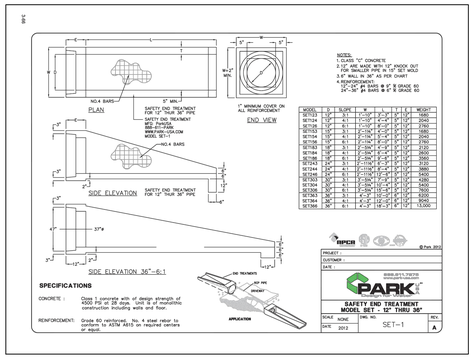
LEGEND:

FG 116.00	PROPOSED FINISHED GRADE
FL 109.50	FLOWLINE ELEVATION
TP 109.80	TOP OF PAVEMENT ELEVATION
TOE 110.00	TOE OF SLOPE ELEVATION
HB 116.00	HIGH BANK ELEVATION

PROP. LIMITS OF SOLID SOD OVER 6" TOPSOIL

PROP. LIMITS OF FLEXTERRA OVER 6" TOPSOIL (INSTALLED PER MANUFACTURER'S RECOMMENDATIONS)

PROP. LIMITS OF HYDROMULCH OVER 6" TOPSOIL (INSTALLED PER MANUFACTURER'S RECOMMENDATIONS) (CONTRACTOR TO ESTABLISH 85% STAND OF GRASS BEFORE FINAL ACCEPTANCE)


NO.4 BARS
12" MAX.
SAFETY END TREATMENT FOR 12" THUR 30" PIPE
PLAN
END VIEW
1" MINIMUM COVER ON ALL REINFORCEMENT
SAFETY END TREATMENT MFG. PARKER WWW.PARK-USA.COM MODEL SET-1
SIDE ELEVATION
SAFETY END TREATMENT FOR 12" THUR 36" PIPE
37°±
SIDE ELEVATION 36"-6:1
NOTES:
1. CLASS "C" CONCRETE
2. PIPE OPENING TO HAVE 12" SNOCK OUT FOR SMALLER PIPE IN 12" SET MOLD
3.4" WALL IN 36" AS PER CHART
4.REINFORCEMENT:
24"-30" #4 BARS @ 6" S GRADE 60
24"-36" #5 BARS @ 6" S GRADE 60
SPECIFICATIONS
CONCRETE : Class 3 concrete with a minimum design strength of 3,000 psi at 28 days for all reinforced concrete construction including walls and floor.
REINFORCEMENT: Grade 60 reinforced. No. 4 steel rebar to conform to ASTM A615 on required centers or about.
SAFETY END TREATMENT
SAFETY END TREATMENT
SAFETY END TREATMENT

GNR Technologies Inc.

Product specification sheet

Product Name: **"Safety Rider V" (Rubber Speed Hump)**

Manufacturer: GNR Technologies Inc.
990 Upton, LaSalle, QC H8R 2T9
Tel.: (514) 366-6116, Fax: (514) 366-6440

Product Description:

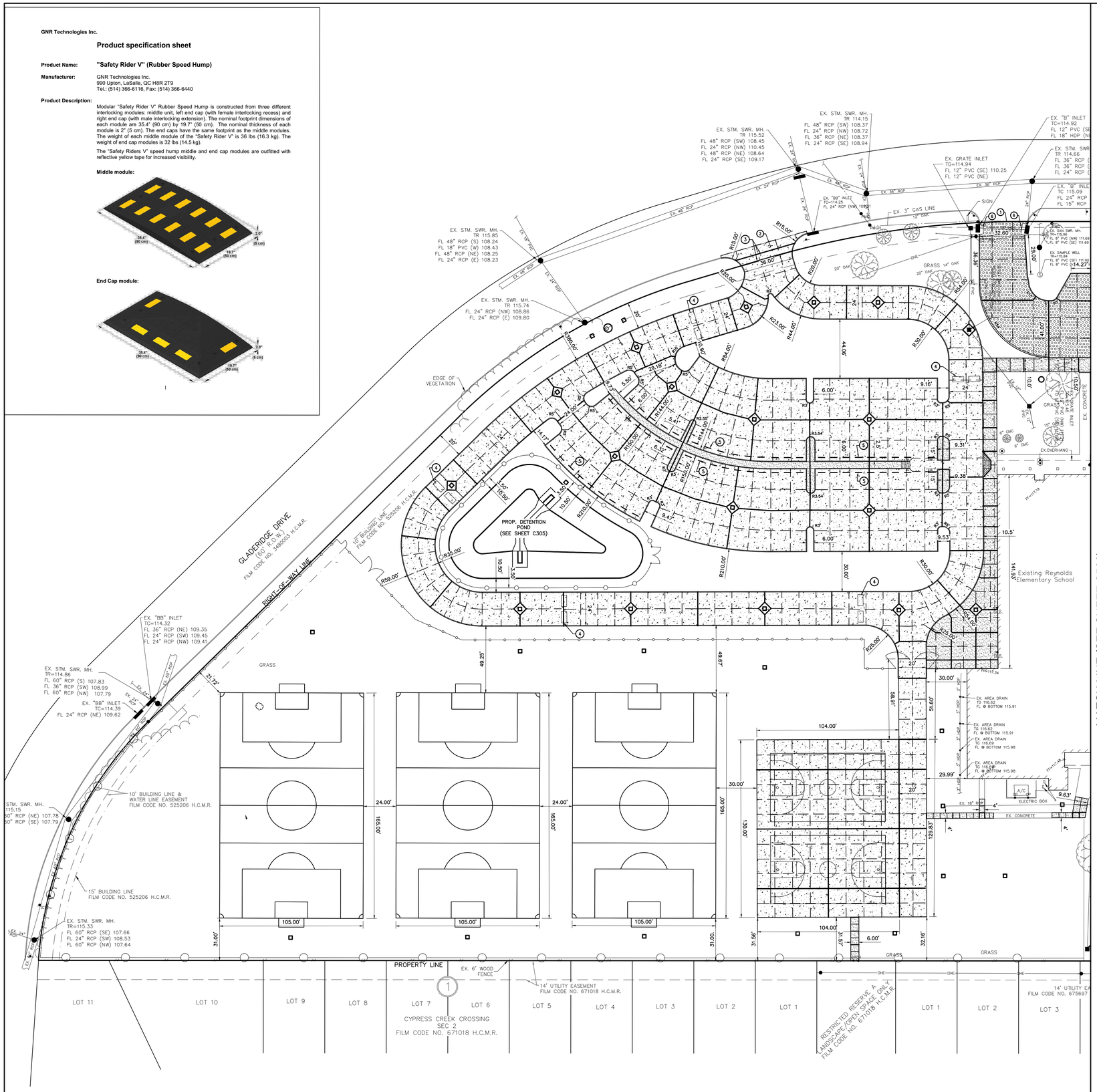
Modular "Safety Rider V" Rubber Speed Hump is constructed from three different interlocking modules: middle unit, left end cap (with female interlocking recess) and right end cap (with male interlocking extension). The nominal footprint dimensions of each module are 35.4" (90 cm) by 19.7" (50 cm). The nominal thickness of each module is 2" (5 cm). The end caps have the same footprint as the middle modules. The weight of each middle module of the "Safety Rider V" is 36 lbs (16.3 kg). The weight of end cap modules is 32 lbs (14.5 kg).

The "Safety Riders V" speed hump middle and end cap modules are outfitted with reflective yellow tape for increased visibility.

Middle module:

End Cap module:

1







SCALE: 1"= 30'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 4802870455L), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

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ELEVATION = 106.02' (NAVD 88, 2001 ADJ.)

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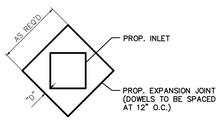
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ELEVATION = 116.22'

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ELEVATION = 116.03'

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ELEVATION = 118.88'

LEGEND:

- SAWED JOINT
- EXPANSION JOINT
- 7" REINFORCED CONCRETE PAVEMENT
- 6" REINFORCED CONCRETE PAVEMENT
- PROP. 4 ½" CONCRETE SIDEWALK



D = 24" FOR MANHOLES & GRATE INLETS
D = 12" FOR AREA INLETS & AREA DRAINS

STORM SEWER INLET W/ EXPANSION JOINT

N.T.S.

NOTES:

1. LOCATE EXPANSION JOINTS AS SHOWN. SAWED JOINTS SHALL BE SPACED EVENLY BETWEEN EXPANSION JOINTS AT 15' MAXIMUM SPACING.
2. ALL CURBS TO BE 6" UNLESS OTHERWISE NOTED.
3. LINE UP JOINTS IN SIDEWALK W/ JOINTS IN PARKING LOT.
4. INSTALL EXPANSION JOINTS IN ALL DRIVEWAYS AT ROW LINE.
5. ALL DIMENSIONS ARE TAKEN TO FACE OF CURB UNLESS OTHERWISE NOTED.

KEY NOTES:

1. CONTRACTOR TO DRILL 9" INTO EXISTING PAVEMENT AND EMBED (EPOXY IN PLACE) 18" LONG #5 BAR EXPOSING 9" TO FACILITATE CONNECTION TO PROPOSED PAVEMENT.
2. PROPOSED CONCRETE DRIVEWAY CONSTRUCTED PER HARRIS COUNTY STANDARDS (SEE DETAIL SHEET C701).
3. CONTRACTOR TO INSTALL EXPANSION JOINTS TO DELINEATE POSSIBLE FUTURE ADA SIDEWALK PATH ACROSS DRIVEWAY.
4. PROPOSED SPEED HUMPS (SEE DETAIL THIS SHEET).
5. PROPOSED WHEEL STOP (TYP.) (SEE DETAIL SHEET C701).
6. CONTRACTOR TO PAVE CONCRETE AROUND EXISTING BLOCK OUT AT EXISTING CURB INLET.

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3. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES (PRIVATE OR PUBLIC) IN THE FIELD PRIOR TO CONSTRUCTION. IF A CONFLICT IS DISCOVERED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

UTILITY ONE CALL

CONTRACTOR TO CALL
BEFORE DIGGING !!!!
PHONE:
HOUSTON 811

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SISD
T 281-554-1000

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL & LANDSCAPING
BROOKS & SPARKS
T 281-579-6950

STRUCTURAL
SALEH ASSOCIATES
T 713-227-8881

MEP
SALAS O'BRIEN
T 281-664-1500

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3313 Gladeridge Dr. Houston, TX 77088

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

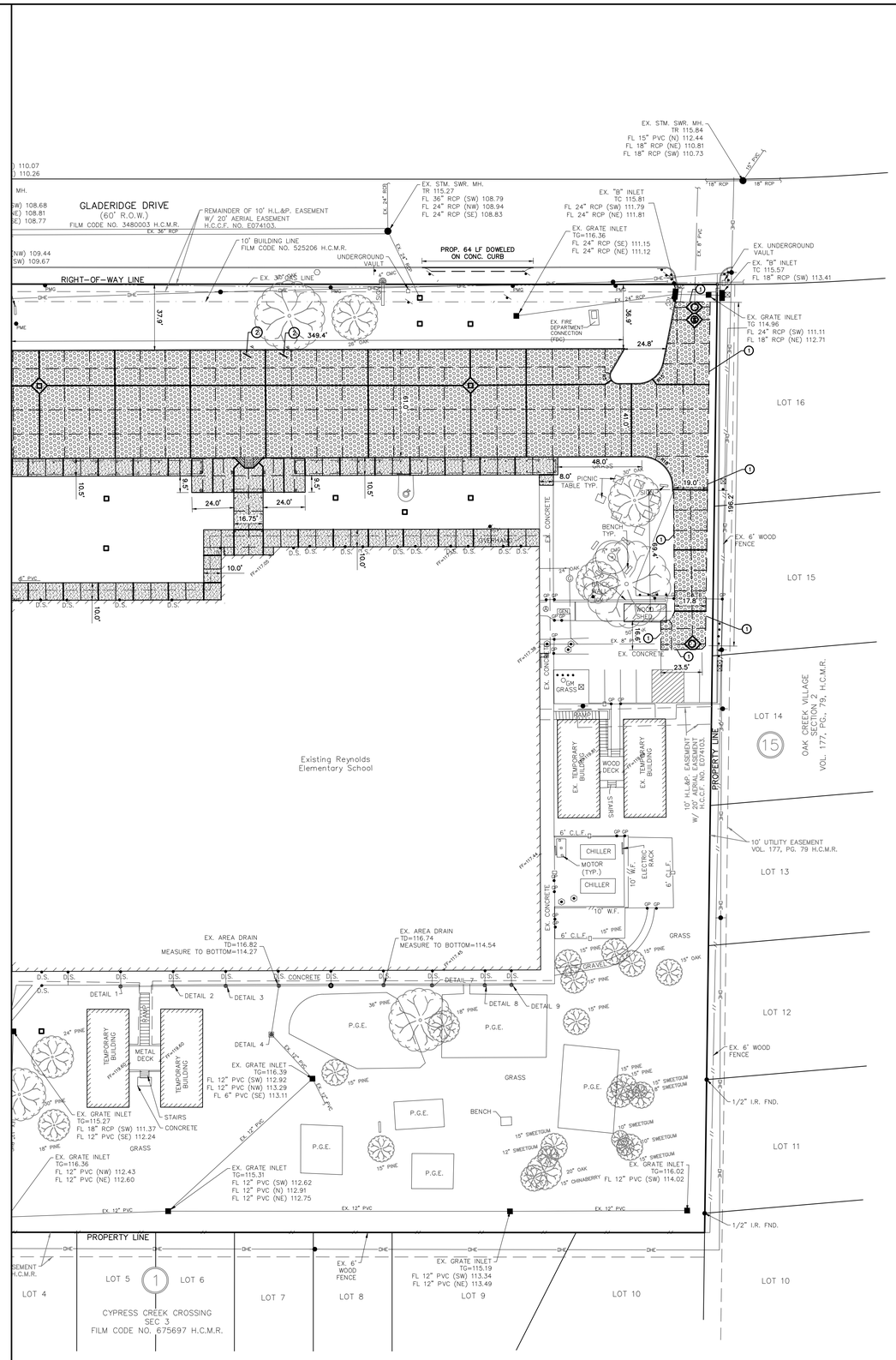
REVISIONS

NO.	DESCRIPTION	DATE

PAVING AND JOINTING PLAN (SHEET 1 OF 2)

C501

17 Oct, 2025 8:42AM Gregl
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Includes Xref(s): Xtb.dwg; X-Seal.dwg; Xtopo.dwg; Xsite.dwg; XUtl.dwg; XGr.dwg







FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0455L (COMMUNITY–PANEL NO. 480287045SL), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

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LEGEND:

- SAWED JOINT
- EXPANSION JOINT
- 7" REINFORCED CONCRETE PAVEMENT
- 6" REINFORCED CONCRETE PAVEMENT
- PROP. 4 ½" CONCRETE SIDEWALK

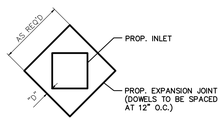
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(2) PROPOSED WHEEL STOP (TYP.) (SEE DETAIL SHEET C701).



STORM SEWER INLET
W/ EXPANSION JOINT
N.T.S.

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BROOKS & SPARKS, INC.
F–880



10/22/25

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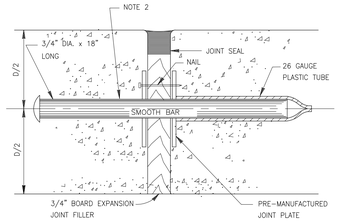
REVISIONS

NO.	DESCRIPTION	DATE

PAVING AND JOINTING PLAN (SHEET 2 OF 2)

C502

17 Oct 2025 8:42AM Gregl
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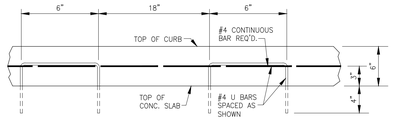


DOWEL TYPE EXPANSION JOINT

N.T.S.

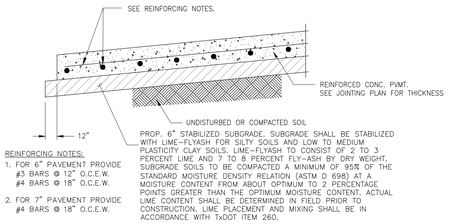
NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12" CENTERS
2. CENTER DOWEL HORIZONTALLY ON JOINT
3. CENTER DOWEL VERTICALLY IN CONCRETE BASE.



TYPICAL CONCRETE CURB REINFORCING

N.T.S.



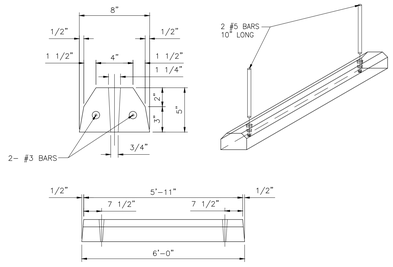
REINFORCING NOTES:

1. FOR 6" PAVEMENT PROVIDE
   #3 BARS @ 12" O.C.E.W.
   #4 BARS @ 18" O.C.E.W.
2. FOR 7" PAVEMENT PROVIDE
   #4 BARS @ 18" O.C.E.W.

PROP. 6" STABILIZED SUBGRADE. SUBGRADE SHALL BE STABILIZED WITH LIME-FLYASH FOR SILTY SOILS AND LOW TO MEDIUM PLASTICITY CLAY SOILS. LIME-FLYASH TO CONSIST OF 2 TO 3 PERCENT LIME AND 7 TO 8 PERCENT FLY-ASH BY DRY WEIGHT. SUBGRADE SOILS TO BE COMPACTED A MINIMUM OF 95% OF THE STANDARD MOISTURE DENSITY RELATION (ASTM D 698) AT A MOISTURE CONTENT FROM ABOUT OPTIMUM TO 2 PERCENTAGE POINTS GREATER THAN THE OPTIMUM MOISTURE CONTENT. ACTUAL LIME CONTENT SHALL BE DETERMINED IN FIELD PRIOR TO CONSTRUCTION. LIME PLACEMENT AND MIXING SHALL BE IN ACCORDANCE WITH TxDOT ITEM 260.

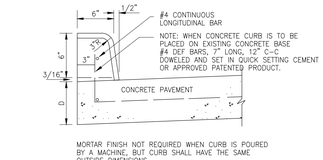
TYPICAL CONCRETE PAVEMENT

N.T.S.



PRECAST CONCRETE WHEEL STOP

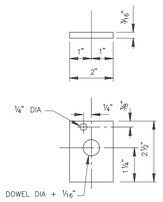
NTS



MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB SHALL HAVE THE SAME OUTSIDE DIMENSIONS

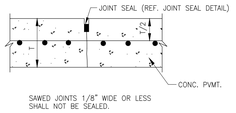
CONCRETE CURB

N.T.S.



DOWEL FITTING

N.T.S.



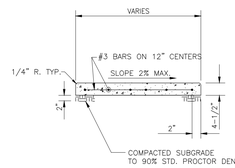
SAWED JOINTS 1/8" WIDE OR LESS SHALL NOT BE SEALED.

SAWED JOINT

N.T.S.

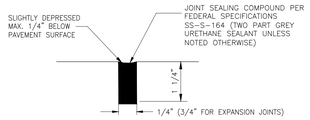
NOTES:

1. 1/2" FIBERBOARD EXPANSION MATERIAL REQUIRED WHERE SIDEWALK ABUTS BUILDING. 3/4" REDWOOD MATERIAL REQUIRED WHERE SIDEWALK ABUTS CURBS, DRIVEWAYS OR EXISTING SIDEWALKS.
2. WHERE NEW SIDEWALK IS PLACED AGAINST EXISTING SIDEWALK, SAWCUT EXISTING SIDEWALK TO AN EVEN STRAIGHT LINE PRIOR TO INSTALLATION OF THE NEW SIDEWALK AND INSTALL EXPANSION JOINT.
3. 1" MAX AGGREGATE.
4. CONTRACTOR SHALL INSTALL SIDEWALK EXPANSION JOINTS AT 20' MAX. INTERVALS AND CONSTRUCTION (SAWED JOINTS) ON 5' CENTERS FOR 5' WIDE SIDEWALKS AND 10' FOR ALL OTHER SIDEWALKS WIDER THAN 5'.
5. LINE UP JOINTS IN SIDEWALK W/ PAVING JOINTS.



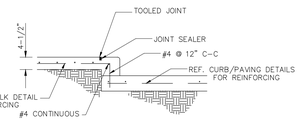
TYPICAL CONCRETE SIDEWALK

N.T.S.



JOINT SEAL

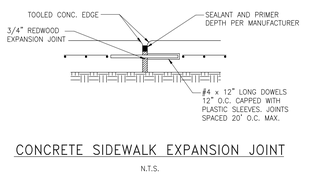
N.T.S.



SIDEWALK SHALL BE DOWELED INTO CURB WITH #4 REBAR @ 12" C-C

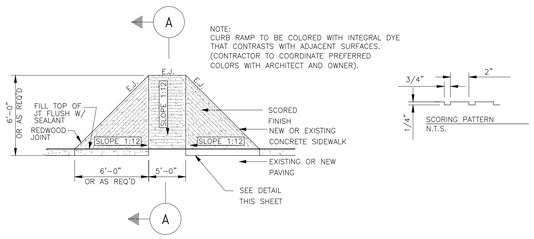
SIDEWALK AT PAVEMENT

N.T.S.



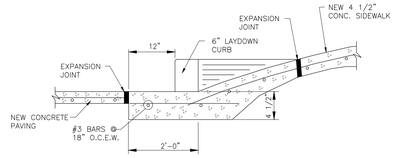
CONCRETE SIDEWALK EXPANSION JOINT

N.T.S.



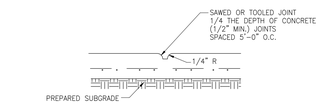
WHEEL CHAIR RAMP

NTS



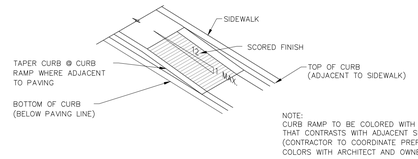
WHEEL CHAIR RAMP CROSS-SECTION "A-A"

N.T.S.



CONCRETE SIDEWALK CONTROL JOINT

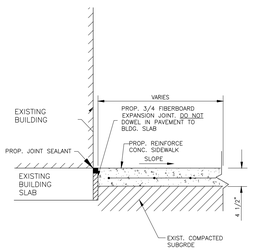
N.T.S.



NOTE: CURB RAMP TO BE COLORED WITH INTEGRAL DYE THAT CONTRASTS WITH ADJACENT SURFACES. (CONTRACTOR TO COORDINATE PREFERRED COLORS WITH ARCHITECT AND OWNER).

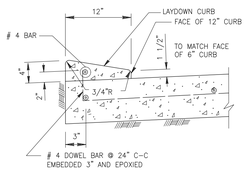
DIRECTIONAL CURB RAMP

N.T.S.



SIDEWALK AT EXISTING BLDG.

N.T.S.

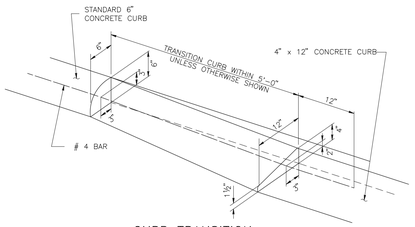


4-INCH x 12-INCH LAYDOWN CURB

N.T.S.

NOTES:

1. TRANSITIONS FROM 6-INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 5 FEET, UNLESS OTHERWISE SHOWN. IF THIS 5-FOOT TRANSITION CURB IS NOT POURED MONOLITHICALLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.



CURB TRANSITION

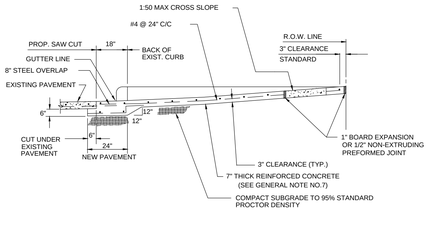
N.T.S.

GENERAL NOTES:

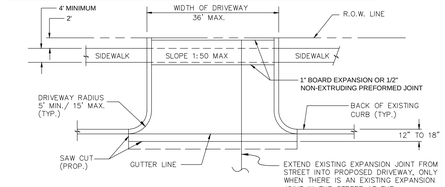
1. PROPOSED DRIVEWAY SHALL MATCH EXISTING TOP OF CURB.
2. PROPOSED DRIVEWAY SHALL BE BUILT WITH PORTLAND CEMENT, 4-1/2 SACK CEMENT PER CUBIC YARD, 6 INCHES THICK, FROM EXISTING PAVEMENT TO RIGHT-OF-WAY LINE WITH 10" THICKENED EDGE FOR 2 FEET, (SEE DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS), AND TO BE REINFORCED WITH #3 DEFORMED REINFORCING BARS (MINIMUM, ASTM A615 GRADE 40, UNLESS NOTED) SPACED AT 24" C.C. EACH WAY, WITH 6 INCHES MINIMUM LAP (12"x12"xW4xW4 OR 6"x6"xW6xW6 AS ALTERNATIVE.
3. 6" COMPOST SUBGRADE TO 95% STANDARD PROCTOR DENSITY (+/- 2% OPT. MOISTURE) FOR PROPOSED DRIVEWAY CONNECTION FROM EXISTING PAVEMENT TO RIGHT-OF-WAY LINE. THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
4. IF MORE THAN ONE PROPOSED DRIVEWAY IS BUILT ON THE SAME PROPERTY, SAID DRIVEWAYS SHALL BE SEPARATED BY A MINIMUM DISTANCE OF 20 FET (ROADWAYS WITH CURBS AN SIDEWALKS).
5. DRIVEWAY RADIUS MAY NOT BEGIN WITHIN INTERSECTION RADIUS.
6. THE OUTER DOWEL BARS ARE TO BE LOCATED 12" FROM END OF PROPOSED EDGE OF DRIVEWAY RETURN. EXTEND DOWEL 3" INCHES INTO PROPOSED DRIVEWAY AND BEND REMAINING BAR TO EXTEND TO RADIUS RETURN BOTH SIDES.

WHEN A COMMERCIAL DRIVEWAY OR CURB & GUTTER IS CONSTRUCTED, RECONSTRUCTED, REPAIRED OR REGRADED ON COUNTY RIGHT OF WAY USE THE FOLLOWING:

A - USE FOR ALL PROPOSED DRIVES ON CURBED TYPE STREETS:



B - USE FOR ALL PROPOSED CURB REMOVAL FOR DRIVEWAYS



DRIVEWAY ON CURBED CONCRETE OR ASPHALT STREETS	APPROVED BY: J.R. BLOUNT	DRAWN BY: CASTANEDA, C.
COMMERCIAL AREA	DATE: 15 NOV 2005	DRAWING No. DW-1
HARRIS COUNTY PUBLIC INFRASTRUCTURE		

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SPRINGTED
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-267-4414

CIVIL&LANDSCAPING
BROOKS & SPARKS
T 281-579-9500

STRUCTURAL
DALLY + ASSOCIATES
T 713-337-3883

MEP
SACALTZMEN
T 281-664-1300

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladebridge Dr, Houston, TX 77068

BROOKS & SPARKS, INC.
F-880

STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

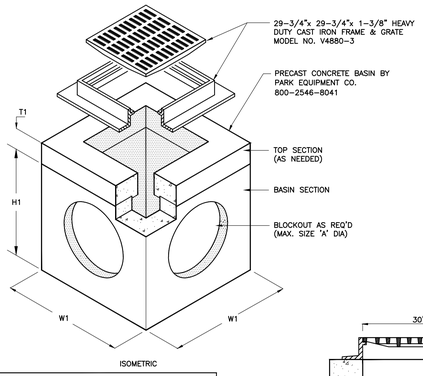
REVISIONS

NO.	DESCRIPTION	DATE

PAVING DETAILS

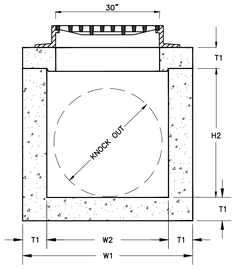
C701

17 Oct 2025 8:42AM Gregl
F:\project\BROOK_SP\IN2 Architect\475-0001_Reynolds Elementary\Civil\C701 PAVING DETAILS.dwg
Includes Xref(s): Xtb.dwg; X-Seal.dwg



ISOMETRIC

DIMENSIONS						
W1	W2	H1	H2	T1	K.O.	GRATE SIZE
42"	30"	36"	30"	6"	30"	30"X30"
48"	36"	42"	36"	6"	36"	30"X30"
60"	48"	54"	48"	6"	48"	30"X30"
72"	60"	66"	60"	6"	60"	30"X30"
84"	72"	78"	72"	6"	72"	30"X30"
96"	83"	78"	72"	6"	84"	30"X30"



SECTION

SPECIFICATIONS

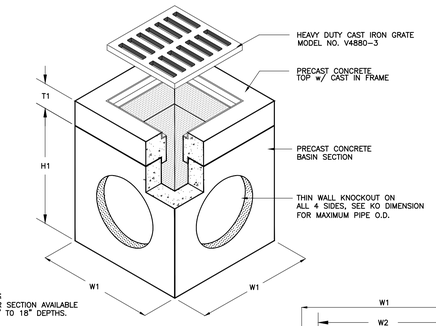
CONCRETE : Class II concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.

REINFORCEMENT: Grade 60 reinforced with steel rebar to conform to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

GRATE INLET IN PAVEMENT

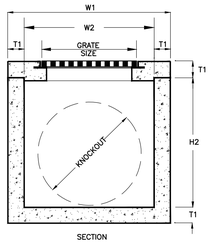
N.T.S.



NOTE:
RISER SECTION AVAILABLE IN 6" TO 18" DEPTHS.

DIMENSIONS						
W1	W2	H1	H2	T1	KO	GRATE SIZE
24"	16"	34"	30"	4"	15"	18"x18"x1-1/4"
26"	18"	34"	30"	4"	17"	20"x20"x1-1/4"
32"	22"	41"	36"	5"	22"	24"x24"x2"
37"	25"	42"	36"	6"	24"	27"x27"x2"
42"	30"	42"	36"	6"	30"	32"x32"x2"
48"	36"	42"	36"	6"	32"	38"x38"x2"
60"	48"	54"	48"	6"	48"	38"x38"x2"
72"	60"	66"	60"	6"	60"	38"x38"x2"
84"	72"	78"	72"	6"	72"	38"x38"x2"
96"	83"	78"	72"	6"	84"	38"x38"x2"

1. LARGER GRATES SIZES ARE AVAILABLE.



SECTION

SPECIFICATIONS

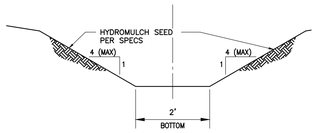
CONCRETE : Class 1 concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

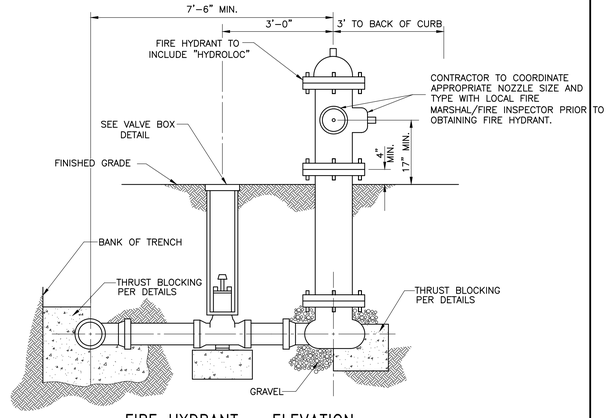
GRATE INLET IN GRASS/LANDSCAPED AREAS

N.T.S.



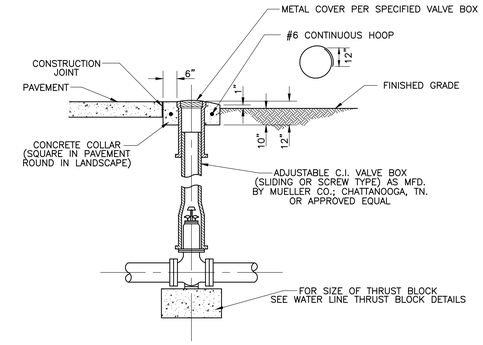
TYPICAL SWALE

N.T.S.



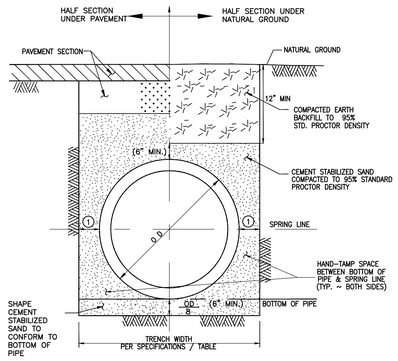
FIRE HYDRANT - ELEVATION

N.T.S.



VALVE BOX

N.T.S.



RECOMMENDED MINIMUM TRENCH WIDTHS

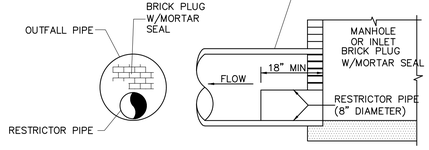
① 4" THRU 24" PIPE DIA. = 12" MIN. WIDTH.
30" AND GREATER PIPE DIA. = 18" MIN. WIDTH.

NOTES:

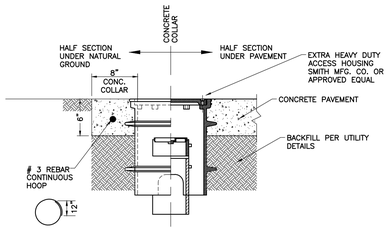
1. WHERE SOIL CONDITIONS REQUIRE, THE ENGINEER MAY ORDER USE OF GRANULAR MATERIAL IN LIEU OF CEMENT STABILIZED SAND BEDDING.
2. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED USING APPROVED SPECIAL DESIGN AS SHOWN ON DRAWINGS.
3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS 8 INCHES THICK MAXIMUM AND COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE TO THE BOTTOM OF THE PAVEMENT SUBGRADE.
5. ALL BEDDING AND BACKFILL SHALL BE INCLUDED IN THE COST OF THE PIPE.

BEDDING FOR STORM SEWER

N.T.S.

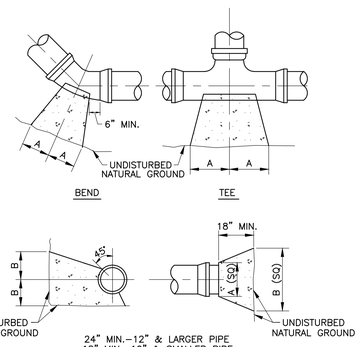


STORM SEWER CHOKE OUTFALL RESTRICTOR



STORM SEWER CLEANOUT

N.T.S.

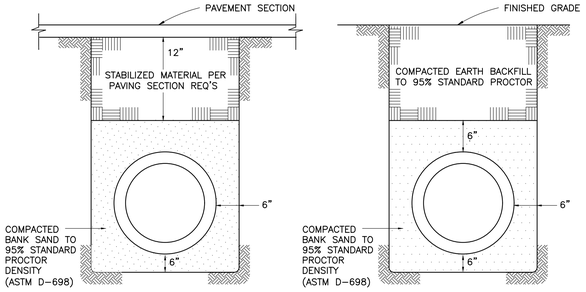


SIZE	90° BEND		45° BEND		22 1/2° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	A	B
2 1/2"	12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
6"	16"	10"	9"	10"	6"	12"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

ALL CONCRETE SHALL BE MIN. 5SK, 3,000 P.S.I.

WATER LINE THRUST BLOCK

N.T.S.



WATER LINE TRENCH

N.T.S.

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SPRINGTED
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T 281-579-9900

STRUCTURAL
DALLY + ASSOCIATES
T 713-331-3883

MEP
SALAS O'BRIEN
T 281-664-1300

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladebridge Dr. Houston, TX 77068

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

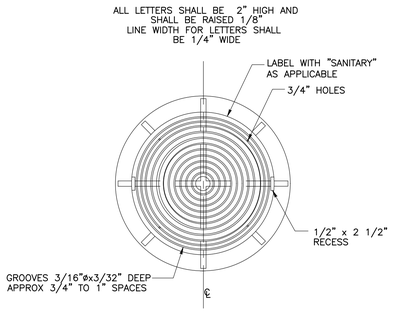
REVISIONS

NO.	DESCRIPTION	DATE

MISCELLANEOUS DETAILS (SHEET 1 OF 2)

C702

17 Oct 2025 8:43AM GregL
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Includes Xref(s): Xtb.dwg; X-Seal.dwg

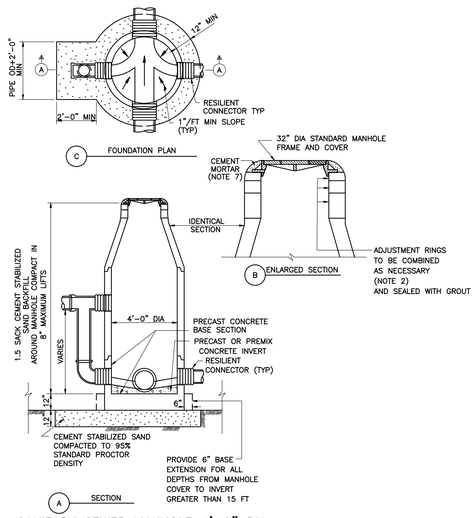


SANITARY SEWER MANHOLE COVER

N.T.S.

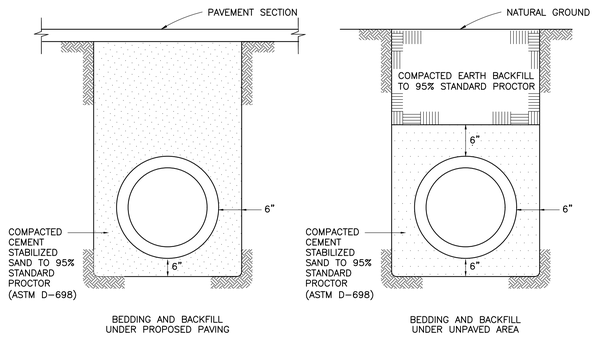
NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR ON DRAWINGS OR WHEN DIFFERENCE IN FLOW LINE ELEVATIONS OF MANHOLE EXCEEDS 24".
5. SEAT MANHOLE FRAME IN SEALANT.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8" EW.
9. INTERIOR SURFACE OF MANHOLE SHALL BE SEALED WITH THANE COAT FE-100 OR APPROVED EQUAL AS PER MANUFACTURERS SPECIFICATIONS.



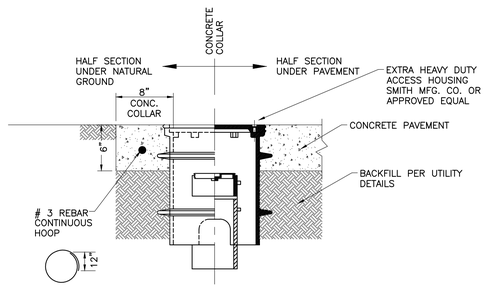
SANITARY SEWER MANHOLE 4'-0" DIA

N.T.S.



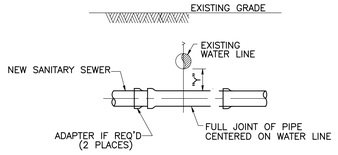
SANITARY SEWER TRENCH

N.T.S.



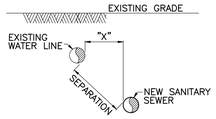
SANITARY SEWER CLEANOUT

N.T.S.



INSTALLATION REQUIREMENTS
1. IF "Y" IS GREATER THAN 6" AND "Y" IS LESS THAN 2', USE MINIMUM 18 FT JOINT OF PRESSURE-RATED PIPE PER TABLE 02730-04.
2. IF "Y" IS GREATER THAN 2' AND "Y" IS LESS THAN 9', USE GRAVITY SEWER PIPE IN CEMENT-STABILIZED SAND EMBEDMENT.
3. IF "Y" IS GREATER THAN 9', USE STANDARD EMBEDMENT AND NORMAL JOINT SPACING.

NEW SANITARY SEWER CROSSING EXISTING WATER LINE



INSTALLATION REQUIREMENTS
1. IF "X" IS LESS THAN 9' AND SEPARATION IS LESS THAN 9', USE PRESSURE-RATED PIPE MH TO MH. "X" MUST BE AT LEAST 4 FT.
2. IF "X" IS GREATER THAN OR EQUAL TO 4' AND SEPARATION IS 9' OR GREATER, USE STANDARD PIPE AND EMBEDMENT.

NEW SANITARY SEWER PARALLEL TO EXISTING WATER LINE

NOTES:

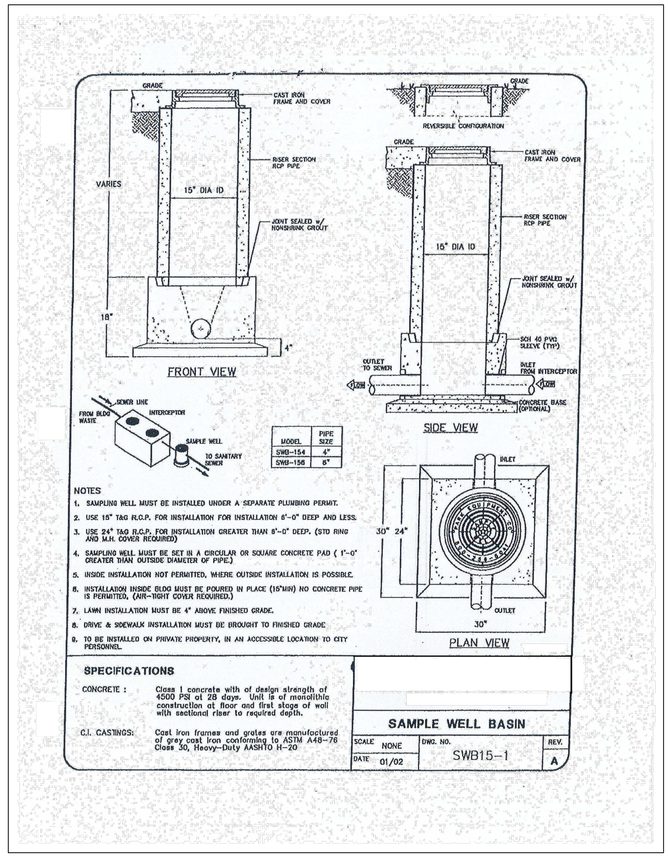
1. SANITARY SEWER MUST BE BELOW WATER LINE WHEREVER POSSIBLE. WHEN WATERLINE IS BELOW THE SANITARY SEWER PROVIDE MINIMUM 2 FT SEPARATION AND INSTALL PIPE SAME AS FOR SEWER BELOW WATER.
2. WHEN PRESSURE-RATED PIPE IS REQUIRED, PROVIDE PIPE WITH MINIMUM 150 psi PRESSURE RATING.
3. ADAPTERS MUST BE FACTORY MOLDED OR FABRICATED, WITH RING STIFFNESS AT LEAST EQUAL TO THE ADJOINING SANITARY SEWER PIPE, AND USING RESILIENT GASKET OR SEAL MATERIAL. FLEXIBLE RUBBER "BOOT" TYPE ADAPTERS WILL NOT BE ACCEPTED.
4. INSTALL FORCE MAINS SAME AS FOR GRAVITY SEWER, USING SPECIFIED PRESSURE PIPE.
5. "Y" MUST ALWAYS BE GREATER THAN OR EQUAL 6".
6. "X" MUST BE GREATER THAN OR EQUAL TO 4 FT.
7. ALTERNATIVES MAY BE SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.
8. SEPARATION REQUIREMENTS SHOWN HERE DO NOT APPLY TO SERVICE CONNECTIONS – REFER TO PLUMBING CODE FOR APPLICABLE REQUIREMENTS.
9. CEMENT-STABILIZED SAND SHALL BE 1½ SACKS OF CEMENT PER CUBIC YARD OF SAND.

TABLE 02730-04
SEWER LINE CROSSING BELOW WATER LINE WITHIN 2 FT SEPARATION

GRAVITY SANITARY SEWER PIPE SIZE	PRESSURE-RATED PIPE SIZE & TYPE (NOTE 2)	ADAPTERS REQUIRED
6" TO 12" (ASTM D-3034)	SAME SIZE ASTM D-2241, SDR 26	ASTM D-3034 TO D-2665 (SEWER TO D.W.V.) ADAPTER COUPLING
15" (ASTM D-3034)	14" LINED DUCTILE IRON OR AWWA C-905, DR-25	NONE REQUIRED
18" AND 24"	SAME SIZE AWWA C-905, PRESSURE-RATED FRP, OR LINED DUCTILE IRON, MANHOLE TO MANHOLE	NONE REQUIRED
21" AND 27"	PRESSURE PIPE NOT AVAILABLE. SEE CASING ALTERNATIVE	NOT APPLICABLE
30" AND LARGER	SAME SIZE PRESSURE-RATED FRP OR LINED DUCTILE IRON, MANHOLE TO MANHOLE	NOT APPLICABLE
CASING ALTERNATIVE: ANY SIZE AND TYPE	INSTALL AS CASING PIPE MIN 18 FT JOINT OF PRESSURE PIPE AT LEAST 2 NOMINAL SIZES LARGER THAN SAN. SEWER CARRIER PIPE. GROUT ANNULAR SPACE WITH TUNNEL GROUT	NOT APPLICABLE

INSTALLATION OF SANITARY SEWER LINES CROSSING OR PARALLEL TO WATER LINES

N.T.S.



IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T 281-579-9595

STRUCTURAL
DALLY + ASSOCIATES
T 713-337-3883

MEP
SACALA O'BRIEN
T 281-664-1300

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladeridge Dr, Houston, TX 77068

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

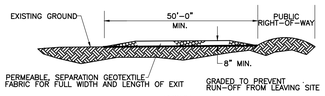
REVISIONS

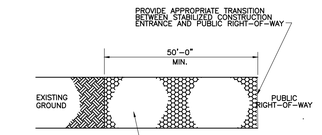
NO.	DESCRIPTION	DATE

MISCELLANEOUS DETAILS (SHEET 2 OF 2)

C703

17 Oct 2025 8:43AM GregL
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Includes Xref(s): Xtb.dwg; X-Seal.dwg



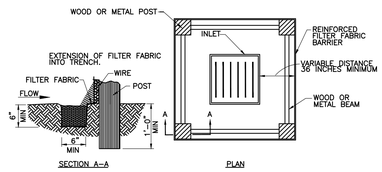


GENERAL NOTES:

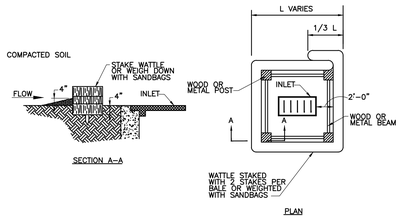
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE 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. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE
   –CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   –WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   –STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS

SC



SEE REINFORCED FILTER FABRIC BARRIER DETAIL FOR REINFORCED FILTER FABRIC BARRIER REQUIREMENTS

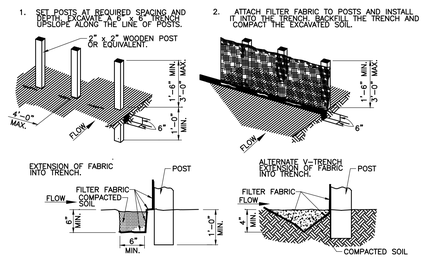


NOTE:
TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB
SYMBOL

1. SET POSTS AT REQUIRED SPACING AND DEPTH. EXCAVATE A 6" x 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. ATTACH FILTER FABRIC TO POSTS AND INSTALL IT INTO THE TRENCH, BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.

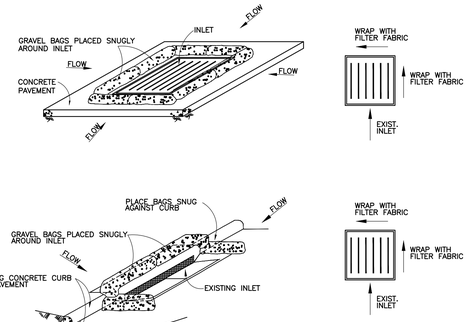


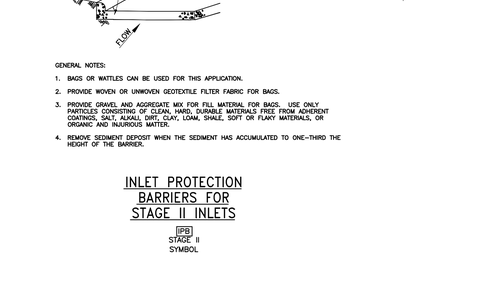
GENERAL NOTES:

1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE

FF
SYMBOL



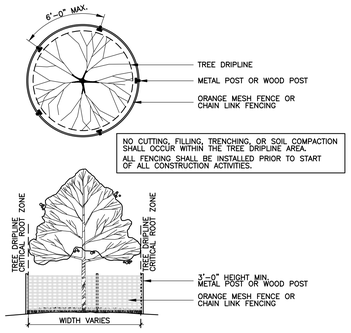


GENERAL NOTES:

1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.
2. PROVIDE WOVEN OR UNWOVEN GEOTEXTILE FILTER FABRIC FOR BAGS.
3. PROVIDE GRAVEL AND AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DURABLE MATERIALS FREE FROM ADHERENT COATINGS, SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND INJURIOUS MATTER.
4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE–THIRD THE HEIGHT OF THE BARRIER.

INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB
STAGE II
SYMBOL

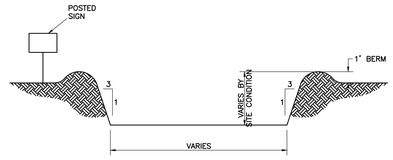


NO CUTTING, FILLING, TRENCHING, OR SOIL COMPACTION SHALL OCCUR WITHIN THE TREE DRIPLINE AREA.
ALL FENCING SHALL BE INSTALLED PRIOR TO START OF ALL CONSTRUCTION ACTIVITIES.

TREE PROTECTION DETAIL

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION AND SUBMISSION OF ALL APPLICABLE STATE AND FEDERAL FORMS REQUIRED FOR STORM WATER POLLUTION PREVENTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF–SITE VEHICLE TRACKING, AND OTHER PRACTICES.
2. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL ADDITIONAL STORM WATER POLLUTION PREVENTION AND STORM WATER CONTROL MEASURES AND SUBMITTALS TO ALL GOVERNING AGENCIES INCLUDING THE EPA REQUIRED DURING CONSTRUCTION TO MEET THE GUIDELINES SET FORTH IN THE STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES PREPARED BY THE CITY OF HOUSTON, HARRIS COUNTY AND HARRIS COUNTY FLOOD CONTROL DISTRICT, LATEST EDITION.



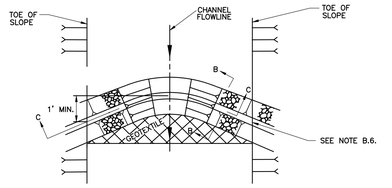
SECTION A–A
N.T.S.

GENERAL NOTES:

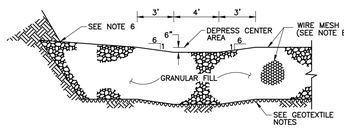
1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN–SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASH OUT 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 WASH OUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS AND EQUIPMENT.

CONCRETE TRUCK WASH OUT AREA

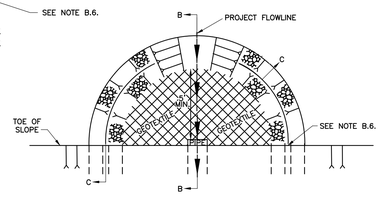
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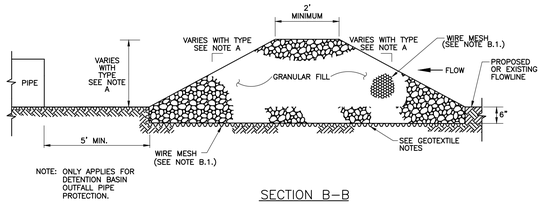
IN–CHANNEL FILTER DAM PLAN



SECTION C–C



FILTER DAM AT DETENTION BASIN OUTFALL PIPE PLAN



NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

SECTION B–B

FILTER DAM NOTES:

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. GRANULAR FILL:
   a PLACE ON MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   b 3–5 INCHES FOR ROCK FILTER DAM TYPES 1,2, AND 4 AND 4–8 INCHES FOR ROCK FILTER DAM TYPE 3. REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02378–RIPRAP AND GRANULAR FILL.
3. WIRE MESH: FOLD 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 SPECIFICATION SECTION NO. 02364–FILTER DAMS.
   EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

FILTER DAM

GEOTEXTILE NOTES:

MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
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OWNER
SPRINGTED
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T 281-579-9900

STRUCTURAL
DALLY + ASSOCIATES
T 713-331-3883

MEP
SALAS O'BRIEN
T 281-654-1300

REYNOLDS ELEMENTARY
MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladebridge Dr, Houston, TX 77068

BROOKS & SPARKS, INC.
F–880

STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

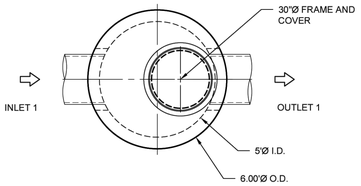
REVISIONS

NO.	DESCRIPTION	DATE

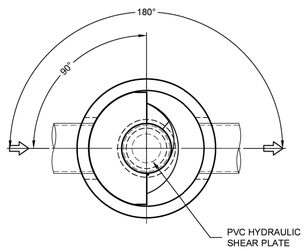
STORM WATER POLLUTION PREVENTION DETAILS

C704

17 Oct 2025 8:43AM GregL
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Includes Xref(s): Xtb.dwg; X–Seal.dwg



PLAN VIEW
INTERNALS NOT SHOWN

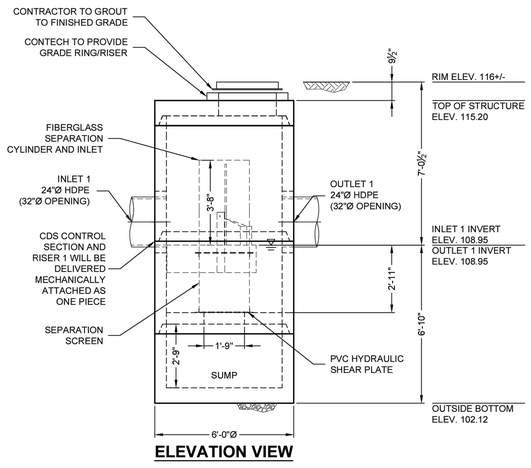


PLAN VIEW FOR PIPE ORIENTATION
TOP SLAB NOT SHOWN

MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	2025-5-CUSTOM CONCENTRIC FIBERGLASS INSERT	CONTECH
1	2025, 2400 micron, 2.17' O.D. x 2.58' SCREEN, GREEN FLANGE UP	CONTECH
1	20, 30, 40 SERIES HARDWARE KIT	CONTECH
1	20 SERIES PVC HYDRAULIC SHEAR PLATE*	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1 PLC	GRADE RINGS/RISERS	CONTRACTOR
1	30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV.	CONTRACTOR

* SEE HYDRAULIC SHEAR PLATE DETAIL



ELEVATION VIEW

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 13000 LBS.
STRUCTURE IS DELIVERED IN 3 PIECES

MAX FOOTPRINT = 6.00'Ø

CONTECH
PROPOSAL
DRAWING

SLY
LAYOUT 1A

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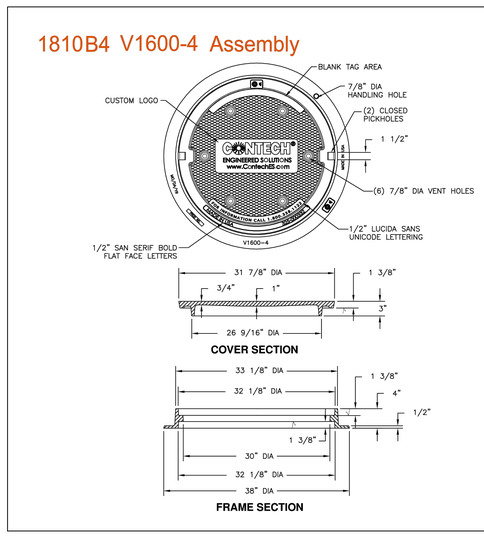
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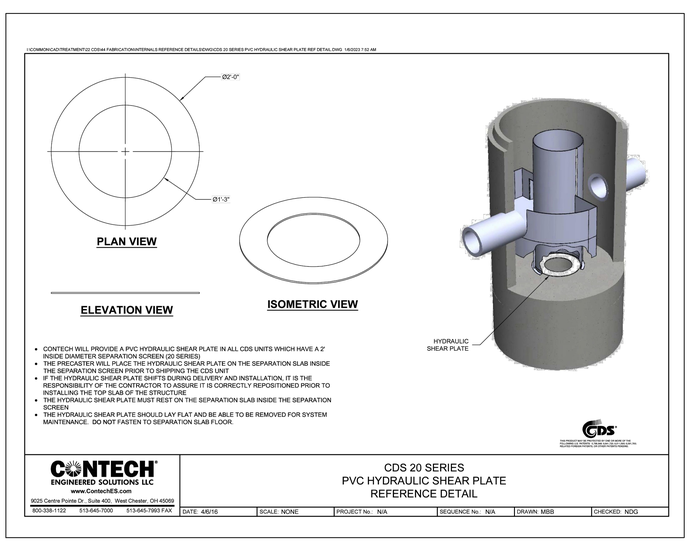
CDS2025-5-C - 863299-10
REYNOLDS ELEMENTARY - SPRING ISD
HOUSTON, TX
SITE DESIGNATION: SWQ

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS
FOR PATENT INFORMATION VISIT CONTECHES.com/IP

DATE:	7/22/25
DESIGNED: PNK	DRAWN: PNK
CHECKED: LJK	APPROVED: PNK
PROJECT No.: 863299	SEQUENCE No.: 10
SHEET: 1 OF 1	





IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER
SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T 281-579-9900

STRUCTURAL
DALLY + ASSOCIATES
T 713-331-3883

MEP
SALAS O'BRIEN
T 281-664-1300

REYNOLDS ELEMENTARY
MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladebridge Dr, Houston, TX 77068

BROOKS & SPARKS, INC.
F-880

STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

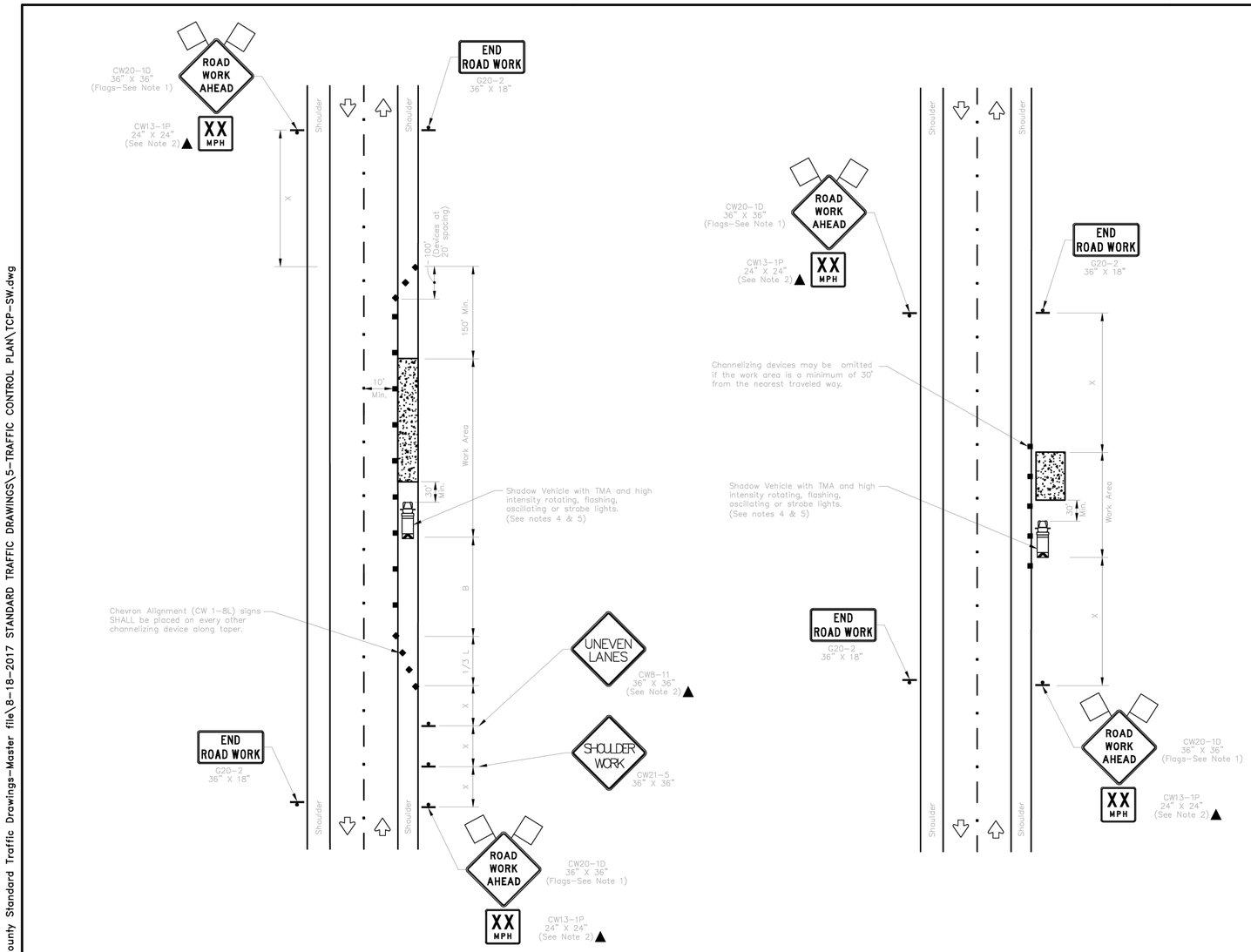
REVISIONS

NO.	DESCRIPTION	DATE

STORM WATER QUALITY UNIT DETAIL

C705

17 Oct 2025 8:43AM Gregl
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Includes Xref(s): Xtb.dwg; X-Seal.dwg



TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
GLADERIDGE DR.	20	150'	30'	60'	120'	90'

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths "L" * *			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

* * Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

1. Flags attached to signs where shown are OPTIONAL.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD – Latest edition with revisions) during construction.
7. No lanes shall be blocked during construction.
8. If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

J:\Engineering Specs\Harris County Standard Traffic Drawings-Master file\8-18-2017 STANDARD TRAFFIC DRAWINGS\5-TRAFFIC CONTROL PLAN\TCP-SW.dwg

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY ENGINEERING DEPARTMENT

HARRIS COUNTY 1918 TEXAS

FOR INTERIM REVIEW ONLY

DOCUMENT INCOMPLETE:
NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ENGINEER: NAME
P.E. SERIAL No. NUMBER
DATE: / /

PROJECT TITLE: REYNOLDS ELEMENTARY
SHOULDER WORK
SHEET TITLE: TRAFFIC CONTROL PLAN (SHOULDER WORK)
DRAWN BY: BSH
CK'D BY: BSH
SCALE: NONE
TRAFFIC STANDARD: TCP-SW
DATE: 8/18/17
SHEET NO: /

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

OWNER: SPRING ISD T 281-891-8156
ARCHITECT: IN2 ARCHITECTURE T 972-427-1222
ARCHITECT: COLEMAN PARTNERS ARCHITECTS T 225-267-4414
CIVIL/LANDSCAPING: BROOKS & SPARKS T 281-579-9955
STRUCTURAL: DALLY + ASSOCIATES T 713-331-3883
MEP: SALAS O'BRIEN T 281-664-1300

REYNOLDS ELEMENTARY
MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladeridge Dr, Houston, TX 77068

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS FRANK E. BROOKS 49225 REGISTERED PROFESSIONAL ENGINEER
10/22/25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	BID / PERMIT

REVISIONS

NO.	DESCRIPTION	DATE

TRAFFIC CONTROL PLAN

C706

17 Oct 2025 8:43AM GregL
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Includes Xref(s): Xtb.dwg; X-Seal.dwg

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 WITH CITY OF HOUSTON AMENDMENTS.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE): MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, **ASCE 7-22**, AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, **15TH EDITION** (ASD), 2017, 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 (ENCLOSED STRUCTURE):**
1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF **126** MPH (ASD WIND SPEED OF **97.6** MPH), 3-SECOND GUST, WITH EXPOSURE **B** AND A RISK CATEGORY **II**.
2. COMPONENTS AND CLADDING PRESSURES (PSF) FOR "CLOSED" BUILDINGS:

E. **SEISMIC CRITERIA:**

1. IMPORTANCE FACTOR:	1.00
2. RISK CATEGORY:	II
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss : 0.083, S1 : 0.045
4. SITE CLASS:	D(ASSUMED)
5. SPECTRAL RESPONSE COEFFICIENTS:	Sds : 0.073, Sd1 : 0.066
6. SEISMIC DESIGN CATEGORY:	A

F. **ROOF RAIN LOAD DATA:**
1. RAIN INTENSITY, I = **4.69** IN/HR

G. **GROUND SNOW LOADS:**
1. GROUND SNOW: 8.0 PSF
2. FLAT-ROOF SNOW LOAD: 8.1 PSF
3. SNOW EXPOSURE FACTOR: 1.2
4. SNOW IMPORTANCE FACTOR: 1.0
5. THERMAL FACTOR: 1.2

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY **TERRACON** DATED **OCTOBER 13, 2025** REPORT NO. **92255350** 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 ALLOWABLE PRESSURE OF **4,000 PSF (NET DEAD + SUSTAINED LIVE LOAD) 6,000 PSF (NET TOTAL LOAD)**

E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

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 IN 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 DEVIATIONS 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 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.

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH (PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SLUMP (IN)	W/C RATIO
	3000	3500	4000			
DRILLED PIERS	●			1 1/2"	5-7	0.55
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

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	**WELDING OF REINFORCING STEEL**	
	WELDABILITY OF STEEL OTHER THAN ASTM A706	PERIODIC
	SHEAR REINFORCEMENT	CONTINUOUS
	OTHER REINFORCEMENT	PERIODIC
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
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
MASONRY	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	PERIODIC
	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE	
	PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC
	CONSTRUCTION OF MORTAR JOINTS	PERIODIC
	LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	PERIODIC
	PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE	
	GROUT SPACE	PERIODIC
	GRADE, TYPE AND SIZE REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES	PERIODIC
	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES	PERIODIC
	PROPORTIONS OF SITE-PREPARED GROUT	PERIODIC
	CONSTRUCTION OF MORTAR JOINTS	PERIODIC
	VERIFY DURING CONSTRUCTION	
	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PERIODIC
	TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	PERIODIC
	WELDING OF REINFORCMENT	CONTINUOUS
	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.

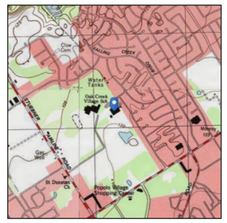
ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

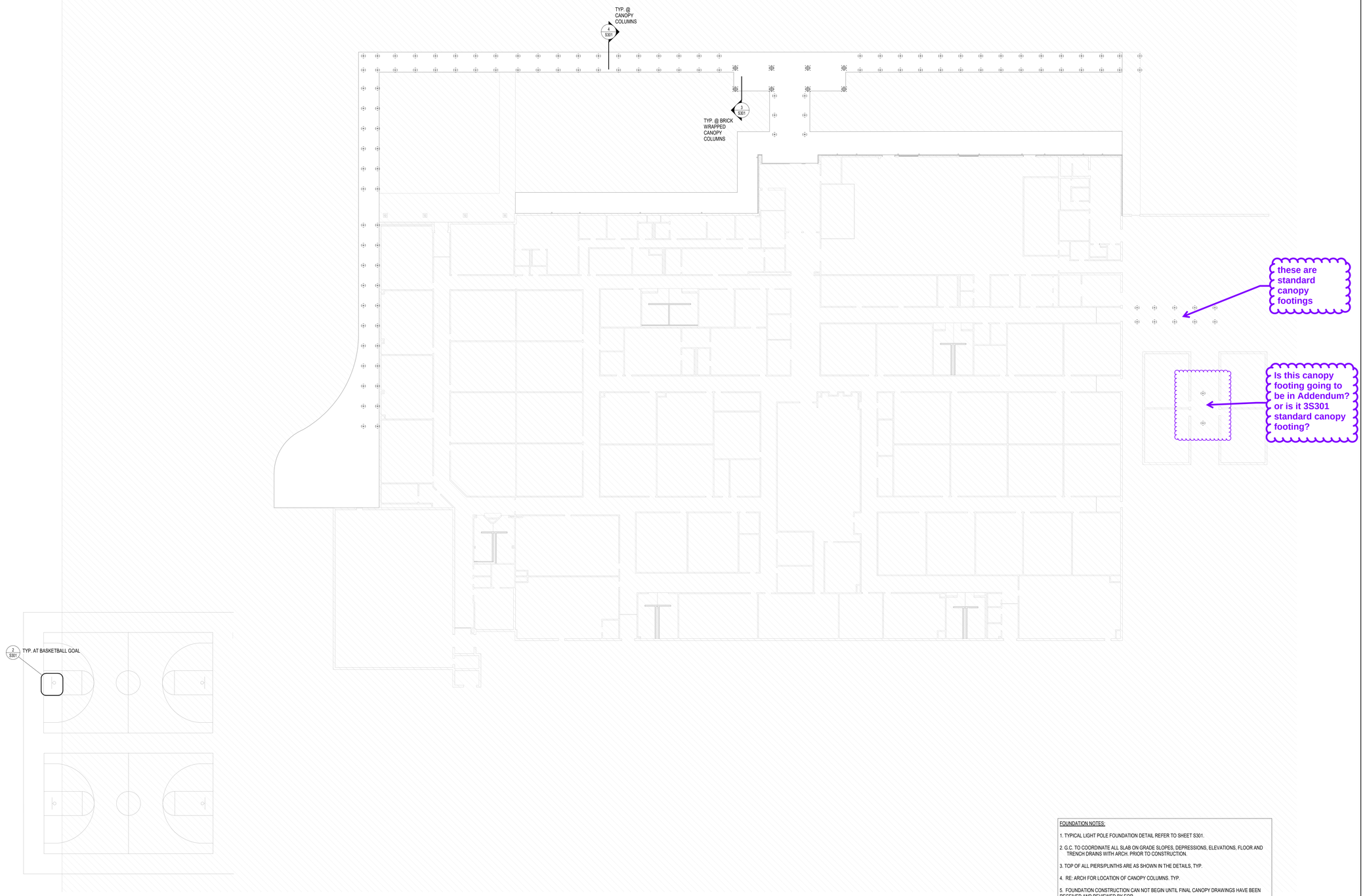
ASCE Hazards Report

Address: 3975 Gladeridge Dr Houston, Texas 77068

Standard: ASCE/SEI 7-22
Risk Category: II
Soil Class: Default

Latitude: 29.997894
Longitude: -95.496077
Elevation: 116.40739312792358 ft (NAVD 88)


Clow
Cloverdale
Cloverdale Park
Gessner
Wilcrest
Wilcrest Green
Briarforest
Briarforest Park
Memorial Park
Memorial Park Golf Course
Houston Arboretum & Nature Center
Rice University
Rice Stadium
Rice Campus
Hermann Park
Hermann Park Golf Course
Museum District
Houston Zoo
Rice Military
Rice Military Park
Braeburn
Braeburn Park
Braeburn Country Club
Bellaire
Bellaire Park
Bellaire Municipal Golf Course
Meyerland
Meyerland Park
Meyerland Plaza
Meyerland Plaza Shopping Center
Bellaire Blvd
Bellaire Blvd at Chimney Rock
Chimney Rock
Chimney Rock at Bellaire Blvd
Chimney Rock at Westpark Dr
Westpark Dr
Westpark Dr at Chimney Rock
Westpark Dr at Fondren Rd
Fondren Rd
Fondren Rd at Westpark Dr
Fondren Rd at Bellaire Blvd
Fondren Rd at Chimney Rock
Fondren Rd at Meyerland Plaza
Fondren Rd at Braeburn Park
Fondren Rd at Braeburn Country Club
Fondren Rd at Memorial Park Golf Course
Fondren Rd at Memorial Park
Fondren Rd at Rice Military Park
Fondren Rd at Rice Military
Fondren Rd at Rice Campus
Fondren Rd at Rice Stadium
Fondren Rd at Hermann Park
Fondren Rd at Hermann Park Golf Course
Fondren Rd at Museum District
Fondren Rd at Houston Zoo
Fondren Rd at Houston Arboretum & Nature Center
Fondren Rd at Rice University



FOUNDATION NOTES:

1. TYPICAL LIGHT POLE FOUNDATION DETAIL REFER TO SHEET S301.
2. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH. PRIOR TO CONSTRUCTION.
3. TOP OF ALL PIERS/PLINTHS ARE AS SHOWN IN THE DETAILS, TYP.
4. RE: ARCH FOR LOCATION OF CANOPY COLUMNS. TYP.
5. FOUNDATION CONSTRUCTION CAN NOT BEGIN UNTIL FINAL CANOPY DRAWINGS HAVE BEEN RECEIVED AND REVIEWED BY EOR.

1 FOUNDATION PLAN
1" = 20'-0"

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

Coleman Partners ARCHITECTS
cparch.com

OWNER
SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

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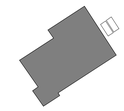
MEP
SALAS O'BRIEN
T 281-664-1900

spring ISD

REYNOLDS ELEMENTARY
MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladeridge Dr, Houston, TX 77068

KEY PLAN



FRED DALLY
90904
REGISTERED
ARCHITECT
STATE OF TEXAS
10/24/2025

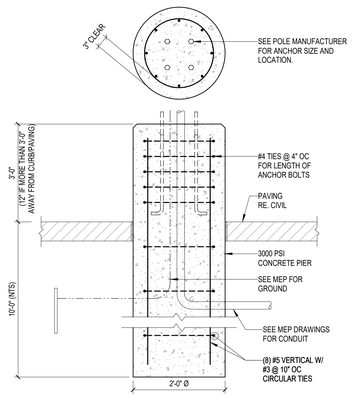
CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

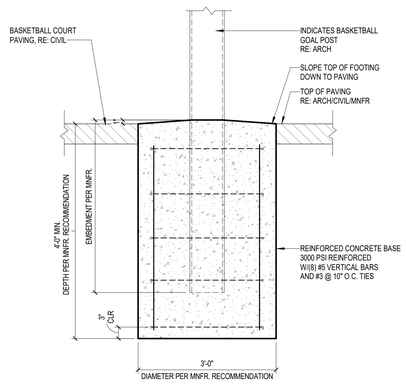
NO.	DESCRIPTION	DATE

FOUNDATION PLAN - OVERALL

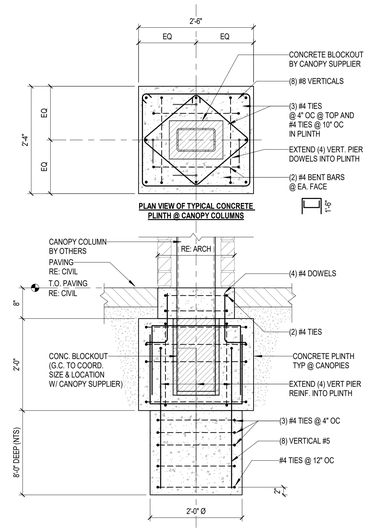
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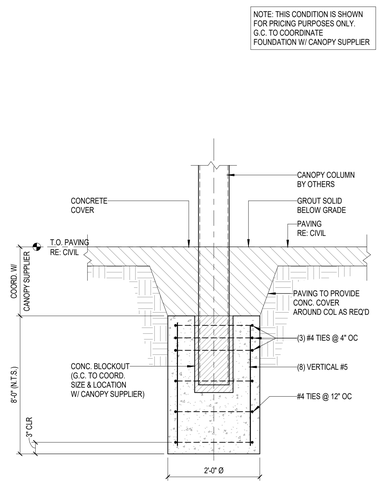
1 TYPICAL LIGHT POLE DETAIL (30'-0" TALL MAX)
3/4" = 1'-0"



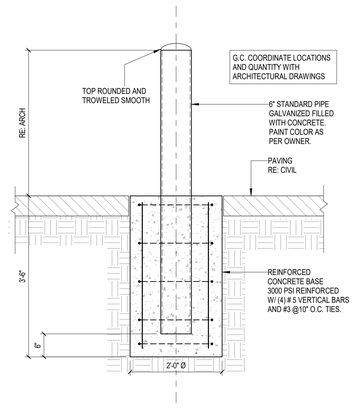
2 TYPICAL BASKETBALL GOAL POST DETAIL
3/4" = 1'-0"



3 TYPICAL ALUMINIUM CANOPY SUPPORT DETAIL
3/4" = 1'-0"



4 TYPICAL ALUMINIUM CANOPY SUPPORT DETAIL
3/4" = 1'-0"



5 TYPICAL BOLLARD DETAIL
3/4" = 1'-0"

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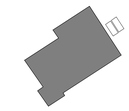
MEP
SALAS O'BRIEN
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spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladeridge Dr, Houston, TX 77068

KEY PLAN





10/24/2025

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

FOUNDTION DETAILS

S301



2.1 - FRONT OF SCHOOL DEMOLITION



2.2 - FRONT OF SCHOOL DEMOLITION - ADDITION SIDE OF SCHOOL



2.3 - FRONT OF SCHOOL DEMOLITION - FLAG POLE & FRONT CANOPY



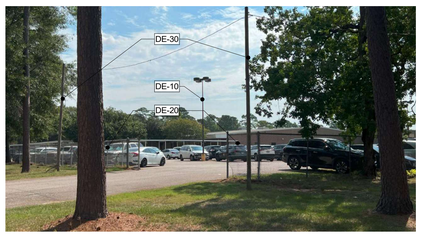
2.4 - PORTABLE EXTERIOR DEMOLITION - CANOPY & DECKS



2.5 - PORTABLE CANOPY & DECK DEMO



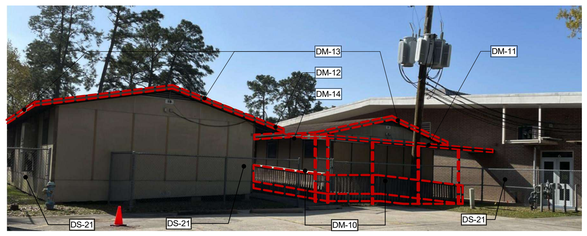
2.6 - PORTABLE CANOPY DEMO @ KITCHEN



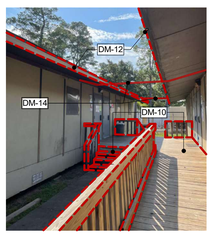
2.7 - FRONT OF SCHOOL DEMOLITION - STAFF PARKING ENTRY



2.9 - FRONT OF SCHOOL DEMOLITION - STREET SIGN DEMOLITION



2.10 - PORTABLE EXTERIOR DEMOLITION - CANOPY & DECK DEMOLITION



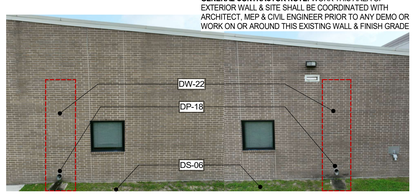
2.11 - PORTABLE CANOPY & DECK DEMO



2.11 - FRONT OF SCHOOL DEMO - STAFF PARKING WOOD BUILDING DEMO

2 DEMO SITE PHOTOS

1 1/2" = 1'-0"

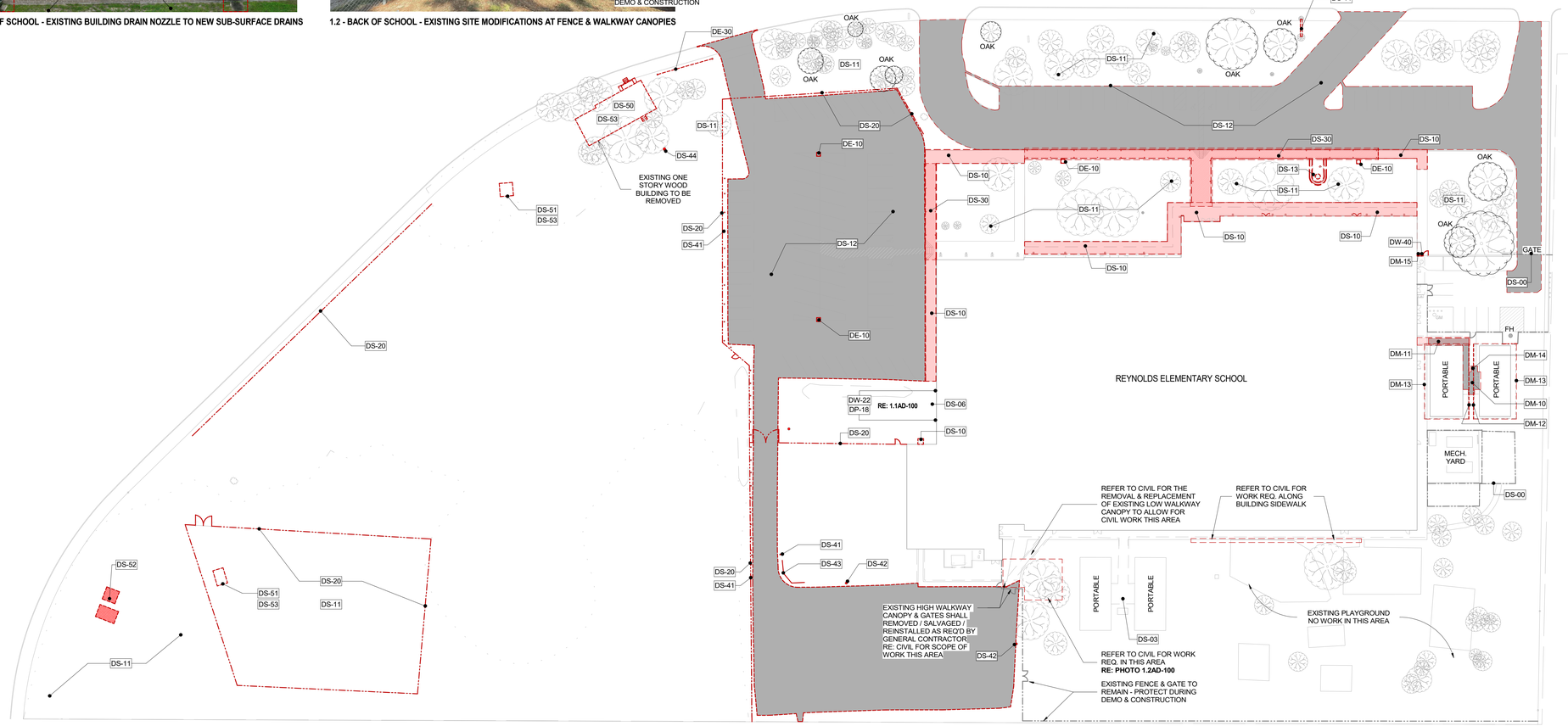


GENERAL CONTRACTOR NOTE: WORK THIS AREA OF EXTERIOR WALL & SITE SHALL BE COORDINATED WITH ARCHITECT, MEP & CIVIL ENGINEER PRIOR TO ANY DEMO OR WORK ON OR AROUND THIS EXISTING WALL & FINISH GRADE

1.1 - SIDE OF SCHOOL - EXISTING BUILDING DRAIN NOZZLE TO NEW SUB-SURFACE DRAINS



1.2 - BACK OF SCHOOL - EXISTING SITE MODIFICATIONS AT FENCE & WALKWAY CANOPIES



1 SITE PLAN - DEMO

1" = 40'-0"

GENERAL SITE NOTES

1. REFER TO CIVIL DRAWINGS, MEPT DRAWINGS AND SPECIFICATIONS FOR EXTENT COMPLETE SITE DEMOLITION.
2. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
3. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
4. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
5. CONTRACTOR SHALL PROVIDE ANY TEMPORARY ROADS, CULVERTS, CROSSINGS, ETC., AS REQUIRED FOR EXECUTION OF THE CONTRACT. ALL TEMPORARY CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
6. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING DURING CONSTRUCTION. PROVIDE ACCESS GATES AND BARRICADE AS NECESSARY TO SECURE SITE AND PROPERTY. COORDINATE LOCATION AND GATES WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
8. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
9. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
10. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
12. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
13. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
14. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
15. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
16. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
17. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
18. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
19. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
20. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
21. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
22. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
23. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
24. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.

DEMOLITION KEYNOTES

DE-10	DEMOLISH LIGHT POLES COMPLETE. REFER TO ELEC FOR ADDITIONAL INSTRUCTION.
DE-20	RELOCATE EXISTING WALL MOUNTED EQUIPMENT / DEVICES - RE: MEPT DRAWINGS
DE-30	REMOVE WOOD POWER POLES. REFER TO ELEC FOR DEMOLITION INSTRUCTION
DM-10	CAREFULLY DEMOLISH WOOD PLATFORM, RAMPS, STEPS AND RAILINGS TO PORTABLE BUILDINGS.
DM-11	CAREFULLY REMOVE CANOPY TO PORTABLE BUILDINGS. PATCH AND REPAIR ANY DAMAGE TO EXISTING EXTERIOR WALL. COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS ABOVE CANOPIES. REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DM-12	PREP EAVE ON ENTRY SIDES OF BOTH PORTABLE BUILDINGS TO RECEIVE NEW GUTTERS & DOWNSPOUTS THIS SIDE OF PORTABLE ONLY.
DM-13	CAREFULLY REMOVE METAL CLAD WOOD FASCIA ON ALL SIDES OF BOTH PORTABLE BUILDINGS. REPLACE WITH NEW METAL CLAD WOOD FASCIA & NEW METAL DRIP TO MATCH EXISTING
DM-14	AT EXISTING PORTABLES, COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS ABOVE CANOPIES. REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DM-15	COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS AT AREAS OF DEMO & WORK - REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DP-18	EXISTING DRAIN LEADERS INSIDE WALL & DRAIN NOZZLES ON BUILDING SHALL BE MODIFIED TO ACCOMMODATE FUTURE SUB-SURFACE DRAINAGE UNDER NEW CONCRETE PAVING IN RENOVATION OF PARKING - RE: COORDINATE PLUMBING & CIVIL FOR REQUIRED WORK THIS AREA OF EXISTING WALL
DS-00	EXISTING FENCE AND GATE TO REMAIN
DS-03	EXISTING ALUMINUM WALKWAY CANOPY, RAMP AND STAIR TO PORTABLE BUILDINGS TO REMAIN
DS-06	MODIFY GRADE IN AREA TO ADD NEW SUB-SURFACE DRAINAGE AT NEW CONCRETE PAVING - RE: PLUMBING & CIVIL
DS-10	DEMOLISH PORTION OF SIDEWALK AROUND BUILDING (TO NEAREST JOINT AS REQ'D); RE: CIVIL
DS-11	REMOVE ALL TREES IN THIS AREA EXCEPT FOR OAK TREES. REFER TO SURVEY AND CIVIL FOR EXTENT OF REMOVAL
DS-12	DEMOLISH PAVING / DRIVE; RE: CIVIL
DS-13	DEMOLISH LANDSCAPE WALL & PLANTS AROUND FLAG POLE. FLAG POLE AND SURROUNDING PAVING TO REMAIN. RE: CIVIL
DS-14	REMOVE MONUMENTAL SIGN COMPLETE INCLUDING FOUNDATION
DS-20	DEMOLISH FENCING AND GATES COMPLETE AS INDICATED
DS-21	DEMOLISH GATES COMPLETE AS INDICATED & REPLACE WITH NEW
DS-30	DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY
DS-41	REMOVE ALL BOLLARDS ALONG EXISTING FENCE TYPICAL.
DS-42	REMOVE BASKETBALL GOAL COMPLETE TYPICAL.
DS-43	REMOVE ATHLETIC FENCING TYPICAL.
DS-44	REMOVE FLAG POLE COMPLETE.
DS-50	DEMOLISH WOOD SHED COMPLETE INCLUDING FOUNDATION. DISCONNECT ALL UTILITIES TO BUILDING. REFER TO ELEC FOR COMPLETE DEMOLITION INSTRUCTION.
DS-51	REMOVE STORAGE SHED AND DEMOLISH FOUNDATION PAD COMPLETE. SALVAGE SHED & PLACE AT NEW AREA OF CLEARED SITE WITH OTHER BUILDINGS PER OWNER'S INSTRUCTION.
DS-52	MOVE STORAGE SHEDS TO THIS NEWLY CLEARED LOCATION PER OWNER'S INSTRUCTION.
DS-53	PRIOR TO ANY DEMOLITION OF ANY STRUCTURE ON SITE, FOLLOW ENGINEER'S INSTRUCTION TO TERMINATE ANY & ALL UTILITIES, PER OWNER'S INSTRUCTION.
DW-22	EXISTING WALL TO REMAIN. REMOVE BRICK AS REQUIRED FOR MODIFICATION OF DRAIN LEADER & / OR ROOF DRAIN NOZZLE - RE: COORDINATE W/ PLUMBING & CIVIL
DW-40	REMOVE AND SALVAGE BRICK @ SCREEN WALL. REMOVE CHAINLINK GATE & POSTS. REPLACE BRICK SCREEN WALL AND NEW CHAINLINK GATE AS REQUIRED TO ACCOMMODATE REMOVAL AND REPLACEMENT OF EXISTING AGGREGATE WALL PANELS ON ADJACENT BUILDING.

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T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3910 Gladebridge Dr, Houston, TX 77068

KEY PLAN



PLAN NORTH

TRUE

REGISTERED ARCHITECT
WENDY H. LEE
22139
STATE OF TEXAS

10.22.2025

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	ISSUE FOR PROPOSALS

REVISIONS

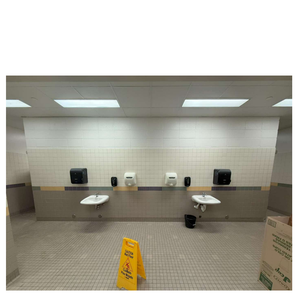
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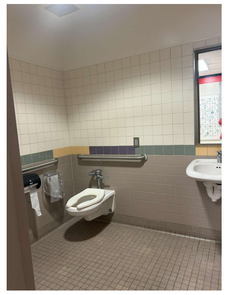
SITE PLAN - DEMO

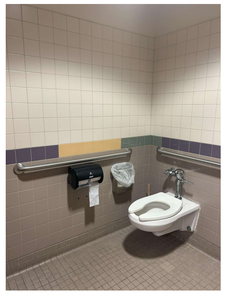
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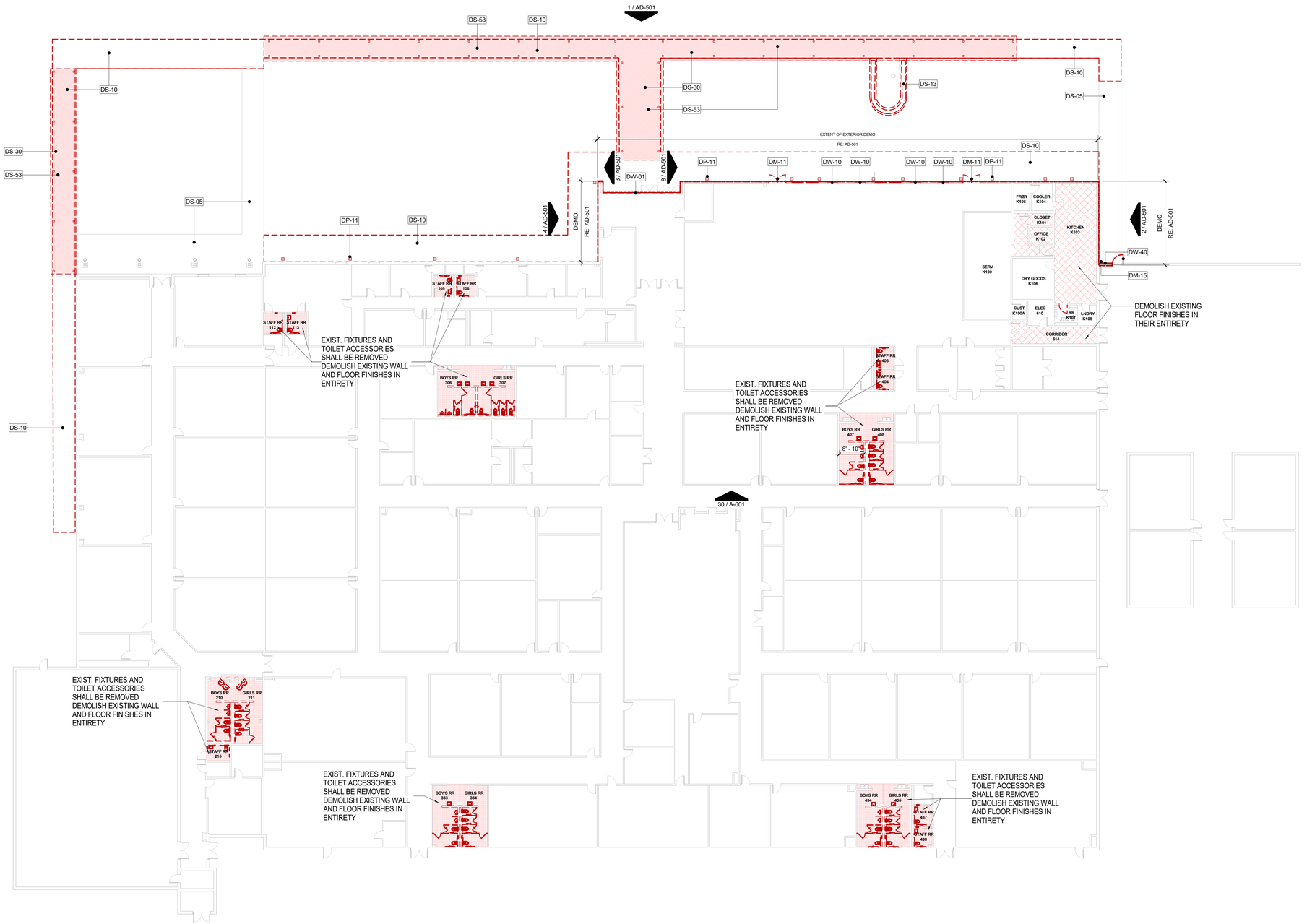








30 EXISTING RESTROOM PHOTOS
1/16" = 1'-0"



06 COMPOSITE FLOOR PLAN - DEMO
1/16" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST.
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
20. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
21. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
22. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
23. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
24. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
25. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE- RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
26. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
27. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
28. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
29. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGSIN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.

DEMOLITION LEGEND

- ELEMENTS TO BE DEMOLISHED OR REMOVED FROM SPACE
- REMOVE EXISTING RESTROOM FLOOR FINISHES
- REMOVE EXISTING VCT FLOOR FINISHES

DEMOLITION KEYNOTES

DM-11	CAREFULLY REMOVE CANOPY TO PORTABLE BUILDINGS. PATCH AND REPAIR ANY DAMAGE TO EXISTING EXTERIOR WALL. COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS ABOVE CANOPIES. REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DM-15	COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS AT AREAS OF DEMO & WORK - REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DP-11	REMOVE DOWNSPOUT AND METAL TRENCH DRAIN TYP. RE: PLUMBING
DS-05	EXISTING SIDEWALK TO REMAIN
DS-10	DEMOLISH PORTION OF SIDEWALK AROUND BUILDING (TO NEAREST JOINT AS REQ'D); RE: CIVIL
DS-13	DEMOLISH LANDSCAPE WALL & PLANTS AROUND FLAG POLE. FLAG POLE AND SURROUNDING PAVING TO REMAIN. RE: CIVIL
DS-30	DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY
DS-53	PRIOR TO ANY DEMOLITION OF ANY STRUCTURE ON SITE, FOLLOW ENGINEER'S INSTRUCTION TO TERMINATE ANY & ALL UTILITIES, PER OWNER'S INSTRUCTION.
DW-01	EXISTING ALUMINUM STOREFRONT SYSTEM AND DOORS TO REMAIN
DW-10	CAREFULLY REMOVE AND DISPOSE ALUMINUM STOREFRONT WINDOW AS PART OF BRICK VENEER REMOVAL. RE: DEMO DETAILS
DW-40	REMOVE AND SALVAGE BRICK @ SCREEN WALL. REMOVE CHAINLINK GATE & POSTS. REPLACE BRICK SCREEN WALL AND NEW CHAINLINK GATE AS REQUIRED TO ACCOMMODATE REMOVAL AND REPLACEMENT OF EXISTING AGGREGATE WALL PANELS ON ADJACENT BUILDING.

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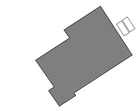
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
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KEY PLAN





10.22.2025

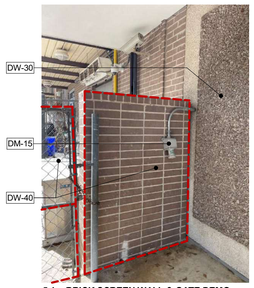
CLIENT	IN2 PROJECT NUMBER
SISD	2411
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10.22.2025	ISSUE FOR PROPOSALS

REVISIONS

NO.	DESCRIPTION	DATE

COMPOSITE FLOOR PLAN - DEMO

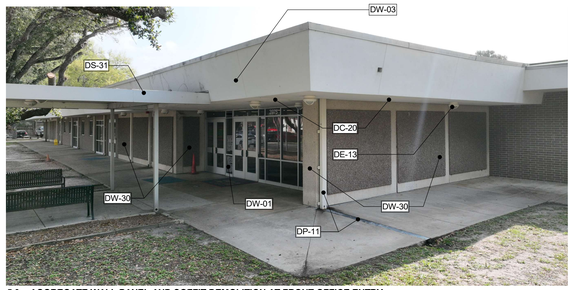
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5.1 - BRICK SCREEN WALL & GATE DEMO



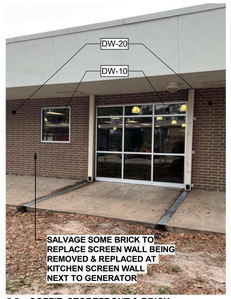
5.2 - AGGREGATE WALL PANEL AND SOFFIT DEMOLITION AT KITCHEN / CAFETERIA



5.3 - AGGREGATE WALL PANEL AND SOFFIT DEMOLITION AT FRONT OFFICE ENTRY



5.4 - AGGREGATE WALL PANEL AND SOFFIT DEMOLITION AT KITCHEN / CAFETERIA



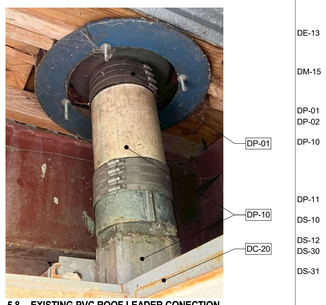
5.5 - SOFFIT, STOREFRONT & BRICK DEMOLITION



5.6 - FRONT OFFICE ENTRY AGGREGATE WALL PANEL & SOFFIT DEMOLITION



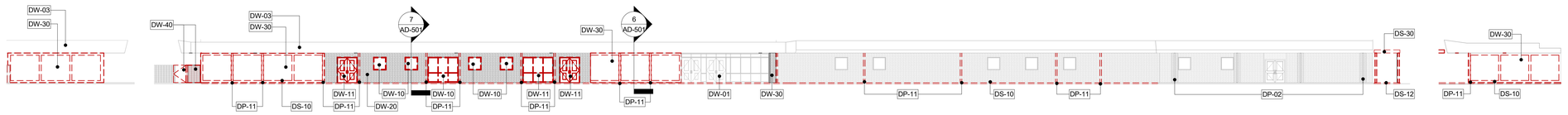
5.7 - SOFFIT DEMOLITION ONLY



5.8 - EXISTING PVC ROOF LEADER CONECTION DEMOLITION - ROOF DRAIN TO REMAIN

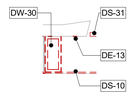
5 EXTERIOR WALL PHOTOS

1" = 1'-0"



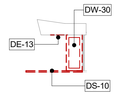
2 DEMO ELEVATION - WEST

1/16" = 1'-0"



3 DEMO ELEVATION - WEST

1/16" = 1'-0"

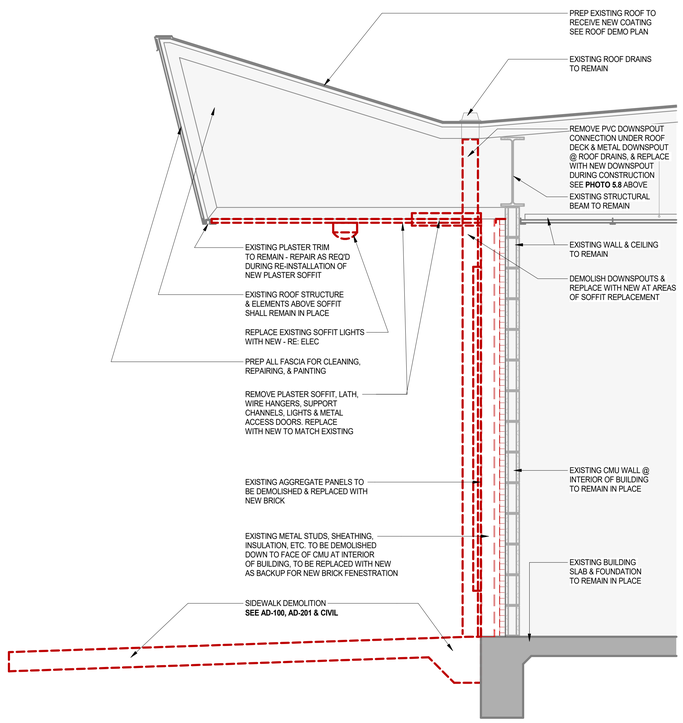


8 DEMO ELEVATION - EAST

1/16" = 1'-0"

1 DEMO ELEVATION - NORTH

1/16" = 1'-0"

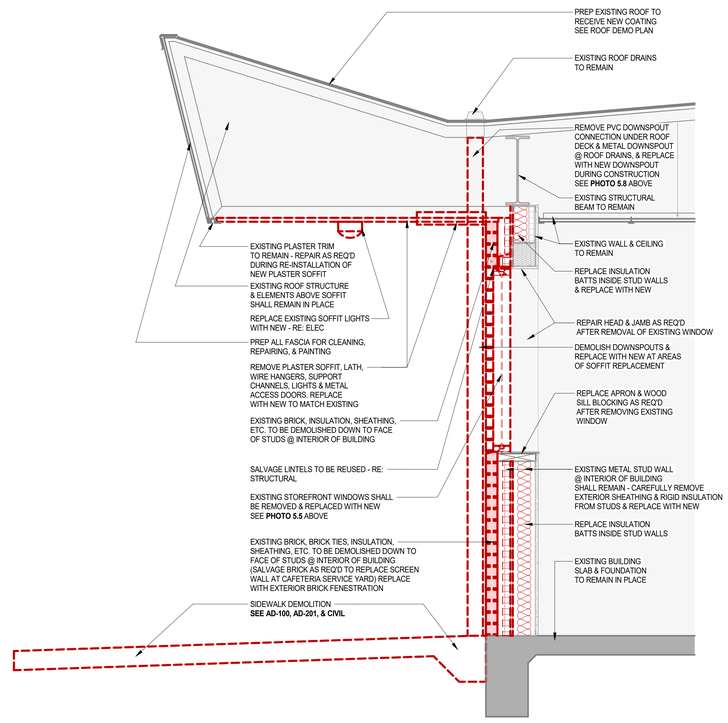


6 DEMO WALL SECTION - A

3/4" = 1'-0"

4 DEMO ELEVATION - EAST

1/16" = 1'-0"



7 DEMO WALL SECTION - B

3/4" = 1'-0"

EXTERIOR DEMO NOTES

1. CONTRACTOR SHALL VERIFY EXISTING BUILDING CONDITIONS PRIOR TO BIDDING, DEMOLITION AND WORK.
2. DIMENSIONS SHOWN ARE APPROXIMATED FROM OWNER PROVIDED AS-BUILTS. GC TO FIELD VERIFY.
3. PROVIDE TEMPORARY WEATHER PROTECTION DURING INTERVALBETWEEN INSTALLATION OF NEW CONSTRUCTION SO AS TO ENSURE NO WATER LEAKAGE OR DAMAGE OCCURS TO THE STRUCTURE OR INTERIOR AREAS OF THE EXISTING BUILDING.
4. CAREFULLY DEMOLISH ALL AGGREGATE FINISHED PANELS COMPLETE INCLUDING METAL BACKUP FRAMING. PREP WALL FOR NEW BRICK VENEER INSTALLATION.
5. CAREFULLY DEMOLISH PLASTER SOFFIT, ASSOCIATED LIGHT FIXTURES AND ACCESS PANELS WHERE INDICATED AS NOT TO DAMAGE EXISTING PLASTER FACIA. REFER TO MEPT DRAWINGS FOR ADDITIONAL INSTRUCTION.
6. REMOVE METAL DOWNSPOUTS AND BRACKETS WHERE INDICATED. WHERE DOWNSPOUTS ARE REMOVED FROM EXISTING MASONRY WALLS TO REMAIN, CONTRACTOR SHALL REMOVE WITH CARE AS NOT TO DAMAGE EXISTING MASONRY. PATCH AND REPAIR IF REQUIRED.
7. REMOVE STOREFRONT WINDOWS AND FRAMES WHERE INDICATED.

DEMOLITION KEYNOTES

DC-03	EXISTING SOFFIT TO REMAIN TYPICAL. CLEAN, PREP AND PAINT AS SCHEDULED
DC-20	CAREFULLY REMOVE AND DISPOSE PLASTER SOFFIT, ASSOCIATED LATH, WIRE HANGERS, SUPPORT CHANNELS, LIGHTS AND ACCESS PANELS SHOWN IN HATCHED AREA. REFER TO DEMO DETAILS AND ELEC FOR ADDITIONAL INSTRUCTION
DE-13	REPLACE EXISTING SOFFIT LIGHTING WITH NEW ALONG PERIMETER OF BUILDING IN ITS ENTIRETY - VERIFY QUANTITY OF LIGHT FIXTURES IN FIELD - RE: ELECTRICAL
DM-15	COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS AT AREAS OF DEMO & WORK - REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DP-01	EXISTING ROOF DRAINS TO REMAIN.
DP-02	EXISTING DRAIN LEADERS / DOWNSPOUTS TO REMAIN.
DP-10	CAREFULLY REMOVE PVC PIPE AND DRAIN LEADER FROM ROOF DRAIN. REPLACE WITH NEW 6" ROUND PRE-FINISHED METAL DOWNSPOUT WITH A NEOPRENE BOOT CONNECTION. CONNECT DOWNSPOUT TO SUBSURFACE DRAINAGE SYSTEM SHOWN ON CIVIL DRAWINGS.
DP-11	REMOVE DOWNSPOUT AND METAL TRENCH DRAIN TYP. RE: PLUMBING
DS-10	DEMOLISH PORTION OF SIDEWALK AROUND BUILDING (TO NEAREST JOINT AS REQ'D); RE: CIVIL
DS-12	DEMOLISH PAVING / DRIVE; RE: CIVIL
DS-30	DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY
DS-31	DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY. REMOVE WITH CARE TO MINIMIZE DAMAGE TO EXISTING BUILDING FASCIA. PATCH AND REPAIR FASCIA AS REQUIRED TO RECEIVE PAINT.
DW-00	EXISTING WALL TO REMAIN
DW-01	EXISTING ALUMINUM STOREFRONT SYSTEM AND DOORS TO REMAIN
DW-03	EXISTING PLASTER FASCIA TO REMAIN TYPICAL. CLEAN, PREP AND PAINT AS SCHEDULED
DW-10	CAREFULLY REMOVE AND DISPOSE ALUMINUM STOREFRONT WINDOW AS PART OF BRICK VENEER REMOVAL. RE: DEMO DETAILS
DW-11	CAREFULLY REMOVE ALUMINUM STOREFRONT FRAME AND DOOR AS PART OF BRICK VENEER REMOVAL. SALVAGE AND STORE DOOR AND HARDWARE FOR REINSTALLATION IN NEW FRAME.
DW-20	CAREFULLY REMOVE EXISTING BRICK VENEER, INSULATION AND SHEATHING DOWN TO METAL STUD FRAMING. REPLACE / REPAIR ANY DAMAGED FRAMING AS REQUIRED. PREP WALL FOR NEW MASONRY INSTALLATION IN SAME LOCATION.
DW-30	CAREFULLY REMOVE EXISTING AGGREGATE PANELS COMPLETE INCLUDING SHEATHING, INSULATION AND METAL FRAMING. REPLACE / REPAIR ANY DAMAGES TO EXISTING CMU AS REQUIRED. PREP WALL FOR NEW BRICK VENEER INSTALLATION IN SAME LOCATION.
DW-40	REMOVE AND SALVAGE BRICK @ SCREEN WALL. REMOVE CHAINLINK GATE & POSTS. REPLACE BRICK SCREEN WALL AND NEW CHAINLINK GATE AS REQUIRED TO ACCOMMODATE REMOVAL AND REPLACEMENT OF EXISTING AGGREGATE WALL PANELS ON ADJACENT BUILDING.

IN2 ARCHITECTURE
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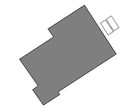
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REYNOLDS ELEMENTARY
MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladeridge Dr. Houston, TX 77068

KEY PLAN



REGISTERED ARCHITECT
WENDY H. LEE
22139
STATE OF TEXAS

10.22.2025

CLIENT	IN2 PROJECT NUMBER
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EXTERIOR WALL - DEMO

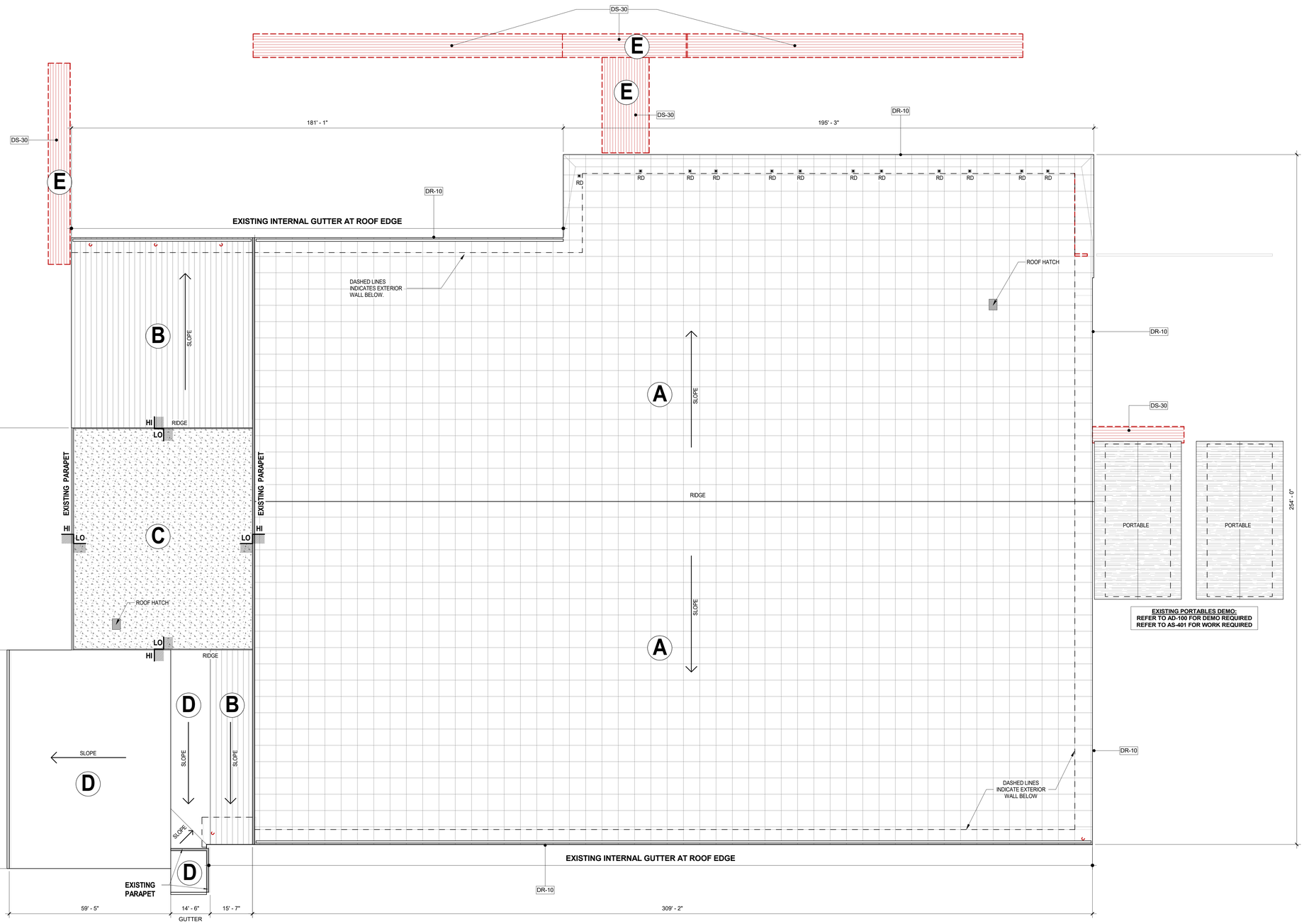
AD-501







1 DEMO CANOPY PHOTOS
1" = 1'-0"



06 ROOF PLAN - DEMO
1/16" = 1'-0"

DEMOLITION LEGEND

ELEMENTS TO BE DEMOLISHED OR REMOVED FROM SPACE

EXISTING ROOF TYPES

A. MAIN ROOF - ROLLED METAL ROOF - REFER TO **SPEC SECTION 075601 ACRYLIC COATING ON METAL** FOR ROOF PREPARATION INSTRUCTION.
B. STANDING SEAM METAL ROOF - REFER TO **SPEC SECTION 075601 ACRYLIC COATING ON METAL** FOR ROOF PREPARATION INSTRUCTION.
C. MODIFIED BITUMEN WITH BALLAST ROOF - REFER TO **SPEC SECTION 075602 ACRYLIC COATING ON BUILT-UP ROOF** FOR ROOF PREPARATION INSTRUCTION. REMOVE EXISTING BALLAST FROM SURFACE OF ROOF PER SPECIFICATIONS.
D. SINGLE PLY (TPO) ROOF - REFER TO **SPEC SECTION 075400 FULLY ADHERED TPO MEMBRANE** FOR ROOF PREPARATION INSTRUCTION.
E. ALUMINUM CANOPY - REFER TO DEMO PLANS

GENERAL ROOF NOTES

1. CONTRACTOR SHALL VERIFY EXISTING ROOF AND BUILDING CONDITIONS PRIOR TO BIDDING, DEMOLITION AND WORK.
2. DIMENSIONS SHOWN ARE APPROXIMATED FROM OWNER PROVIDED AS-BUILTS. GC TO FIELD VERIFY.
3. CONTRACTOR SHALL VERIFY ALL EXISTING ROOF FLASHING, DRAINS, GUTTERS, DOWNSPOUTS, ROOF PENETRATIONS, EQUIPMENT, LADDERS, HATCHES, ACCESSORIES AND MISC. ROOF MOUNTED ITEMS TO DETERMINE EXTENT OF WORK REQUIRED PRIOR TO BIDDING AND CONSTRUCTION.
4. EXISTING ROOF TOP EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL SECURE AND PROTECT THE EXISTING AREAS, CONTENTS THAT REMAIN. ALL DAMAGE RESULTING FROM WORK IN THIS CONTRACT SHALL BE RETURNED TO ITS ORIGINAL STATE. CAREFULLY DISMANTLE AND REMOVE MATERIAL AS REQUIRED FOR ROOF REPAIR AMD REPLACEMENT. NOTIFY ARCHITECT PRIOR TO ANY DEMOLITION WORK THAT MAY DAMAGE THE INTEGRITY OF ANY MATERIAL TO REMAIN.
6. PROVIDE TEMPORARY WEATHER PROTECTION DURING INTERVALBETWEEN INSTALLATION OF NEW CONSTRUCTION SO AS TO ENSURE NO WATER LEAKAGE OR DAMAGE OCCURS TO THE STRUCTURE OR INTERIOR AREAS OF THE EXISTING BUILDING.
7. CONTRACTOR SHALL NOT USE ANY PART OF EXISTING ROOF AS LAYDOWN AREA FOR CONSTRUCTION. PROTECT EXISTING ROOF DRAINS FROM BEING BLOCKED BY FOREIGN OBJECTS BEFORE, DURING AND AFTER CONSTRUCTION. DO NOT ALLOW DEBRIS TO ENTER ROOF DRAINS AND GUTTERS SYSTEMS. VERIFY UNRESTRICTED DRAINAGE AT THE END OF EACH DAY.
8. REFER TO ROOFING SPECIFICATIONS FOR DEMO OR PREPARATION INSTRUCTION OF EXISTING ROOFS.
9. INSTALL NEW ROOFING SYSTEM AND COMPONENTS IN STRICT ACCORDANCE WITH ROOFING MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.
10. CONTRACTOR SHALL ENSURE ALL ROOF DRAINS ARE FREE FLOWING BEFORE AND AFTER ROOF WORK.

DEMOLITION KEYNOTES

DR-10 EXISTING FASCIA TO REMAIN - PREP FOR CLEANING, REPAIR, AND PAINT
DS-30 DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY

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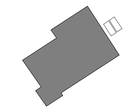
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KEY PLAN





10.22.2025

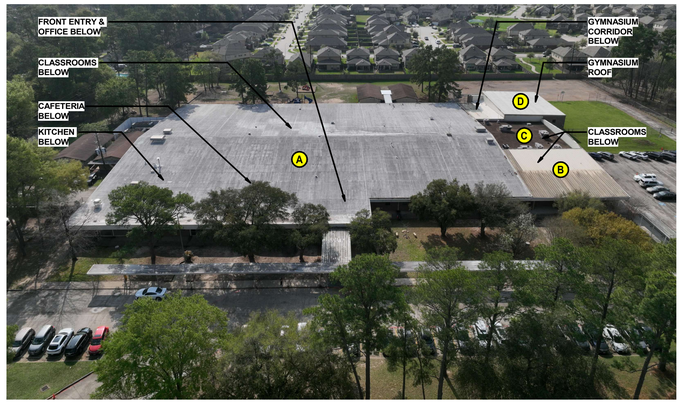
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ROOF PLAN - DEMO

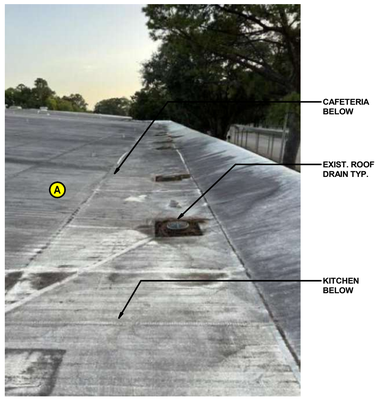
AD-700



1 - OVERALL ROOF ELEVATION FROM STREET (NORTH SIDE)



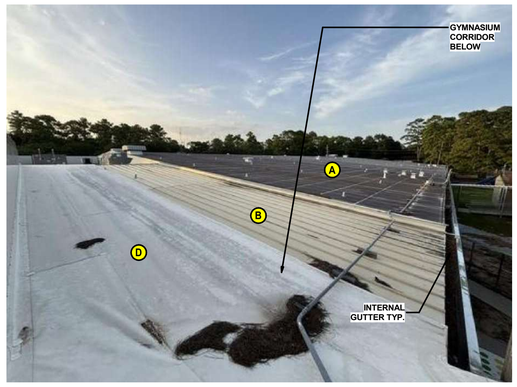
2 - OVERALL ROOF ELEVATION FROM PLAY GROUND (SOUTH SIDE)



3 - ROOF DRAINS AT FRONT (NORTH)



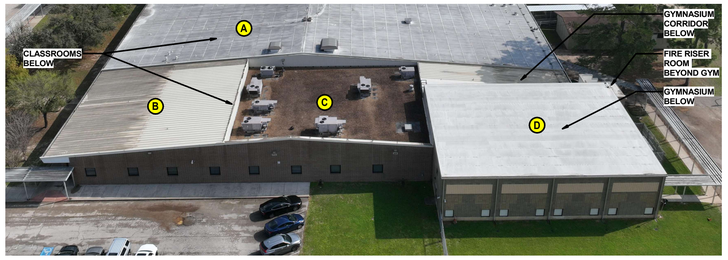
4 - OVERALL ROOF ELEVATION FROM CHILLER SIDE (EAST SIDE)



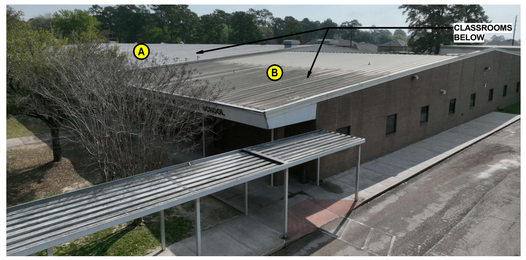
5 - ROOF OVER GYM CORRIDOR (SOUTHWEST SIDE)



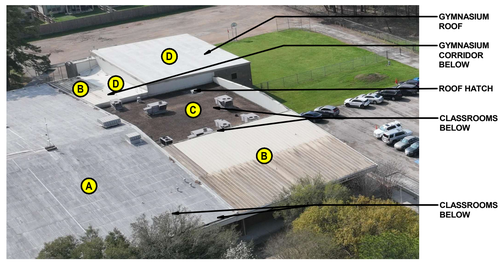
6 - ROOF OVER GYM CORRIDOR LOOKING SOUTH



7 - OVERALL ROOF ELEVATION FROM PARKING LOT (WEST SIDE)



8 - ROOF OVER CLASSROOMS @ PARKING (NORTHWEST SIDE)



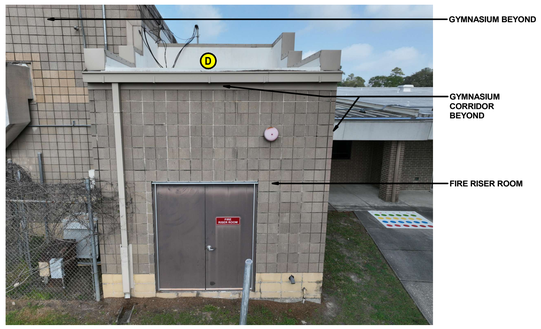
9 - ROOF OVER CLASSROOMS LOOKING SOUTHWEST



10 - ROOF OVER CLASSROOMS WEST SIDE TOWARDS SOUTHWEST



11 - ROOF OVER CLASSROOMS WEST SIDE TOWARDS NORTHEAST



12 - FIRE RISER ROOM NEAR GYM (SOUTH SIDE)

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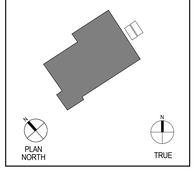
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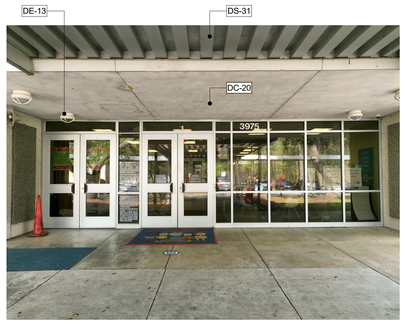
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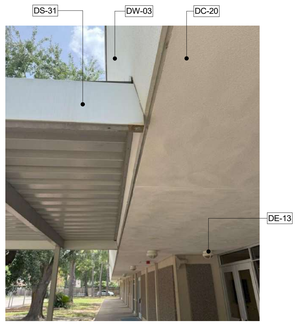
NO.	DESCRIPTION	DATE

EXISTING ROOF PHOTOS

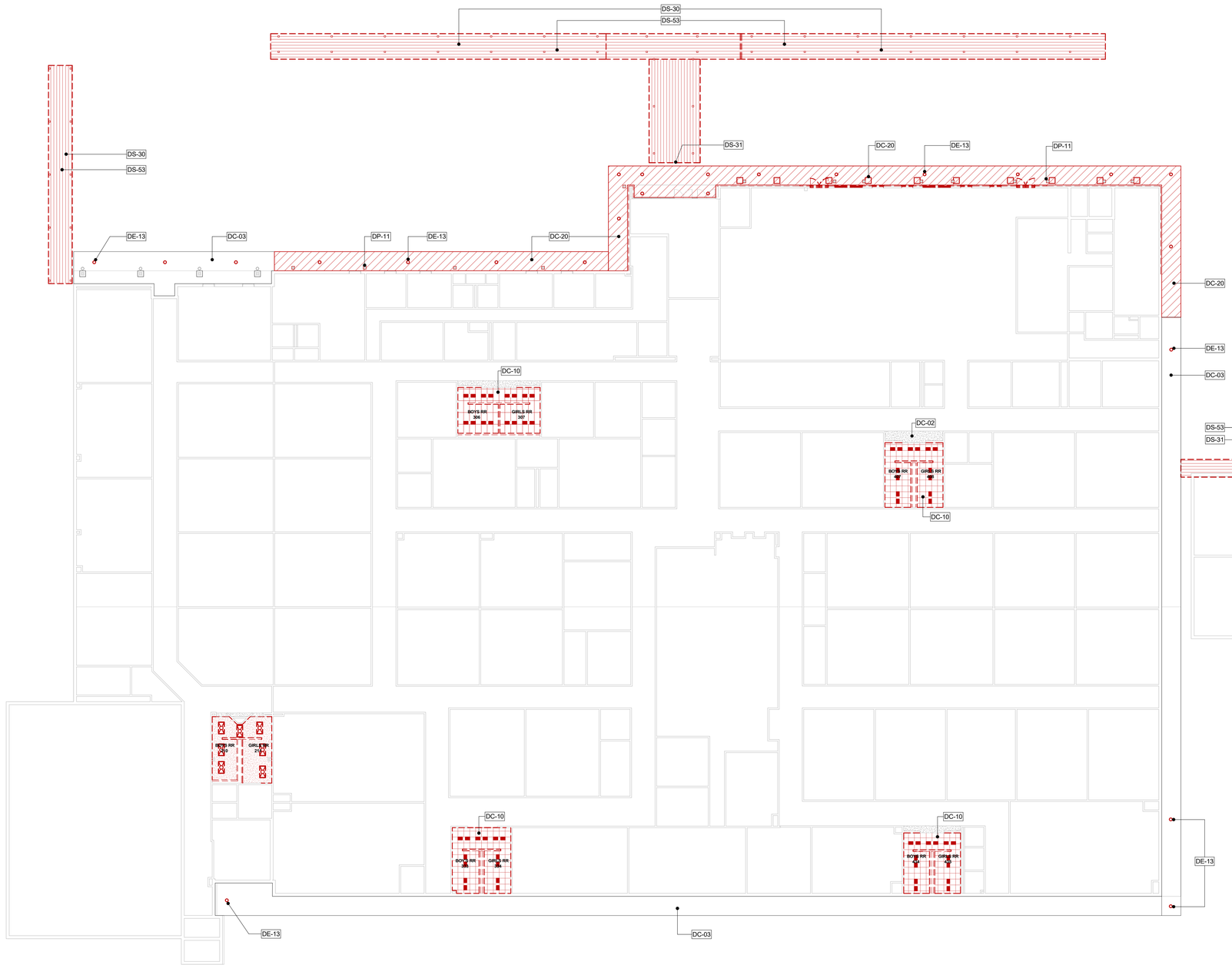
AD-701

1 EXISTING ROOF PHOTOS
1" = 1'-0"





1 DEMO RCP PHOTOS
1" = 1'-0"



06 RCP - DEMO
1/16" = 1'-0"

DEMOLITION KEYNOTES

DC-02	EXISTING GYPSUM BOARD CEILING TO REMAIN. PATCH / REPLACE AND FINISH AREA AFFECTED BY OTHER RENOVATION WORK AS REQUIRED TO RECEIVE NEW FINISH. AS AN OPTION, REMOVE AND REPLACE ENTIRE CEILING TO ACCOMMODATE OTHER WORK.
DC-03	EXISTING SOFFIT TO REMAIN TYPICAL. CLEAN, PREP AND PAINT AS SCHEDULED
DC-10	DEMOLISH ACOUSTICAL CEILING TILE AND SUSPENSION SYSTEM COMPLETE. REFER TO MEPT DRAWINGS FOR ADDITIONAL DEMO INSTRUCTION.
DC-20	CAREFULLY REMOVE AND DISPOSE PLASTER SOFFIT, ASSOCIATED LATH, WIRE HANGERS, SUPPORT CHANNELS, LIGHTS AND ACCESS PANELS SHOWN IN HATCHED AREA. REFER TO DEMO DETAILS AND ELEC FOR ADDITIONAL INSTRUCTION
DE-13	REPLACE EXISTING SOFFIT LIGHTING WITH NEW ALONG PERIMETER OF BUILDING IN ITS ENTIRETY - VERIFY QUANTITY OF LIGHT FIXTURES IN FIELD - RE: ELECTRICAL
DM-14	AT EXISTING PORTABLES, COORDINATE RELOCATION OR TEMPORARY SUPPORT FOR ALL CONDUITS ABOVE CANOPIES. REFER TO ELEC FOR ADDITIONAL INSTRUCTIONS
DP-11	REMOVE DOWNSPOUT AND METAL TRENCH DRAIN TYP. RE: PLUMBING
DS-30	DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY
DS-31	DEMOLISH CANOPIES, CANOPY POSTS, & FOOTINGS IN THEIR ENTIRETY. REMOVE WITH CARE TO MINIMIZE DAMAGE TO EXISTING BUILDING FASCIA. PATCH AND REPAIR FASCIA AS REQUIRED TO RECEIVE PAINT.
DS-53	PRIOR TO ANY DEMOLITION OF ANY STRUCTURE ON SITE, FOLLOW ENGINEER'S INSTRUCTION TO TERMINATE ANY & ALL UTILITIES, PER OWNER'S INSTRUCTION.
DW-03	EXISTING PLASTER FASCIA TO REMAIN TYPICAL. CLEAN, PREP AND PAINT AS SCHEDULED

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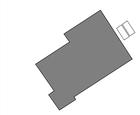
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KEY PLAN





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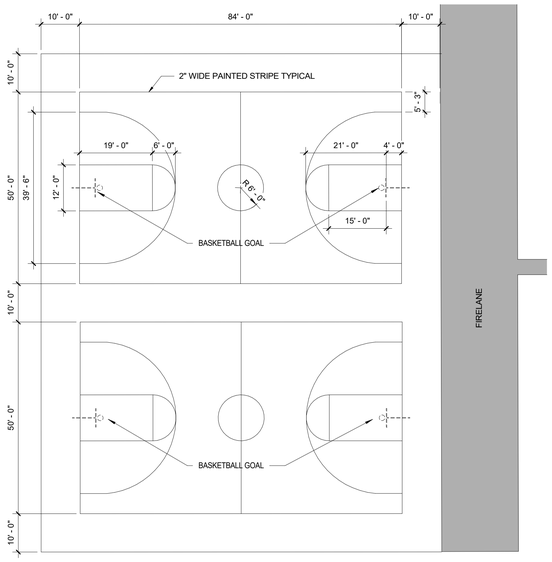
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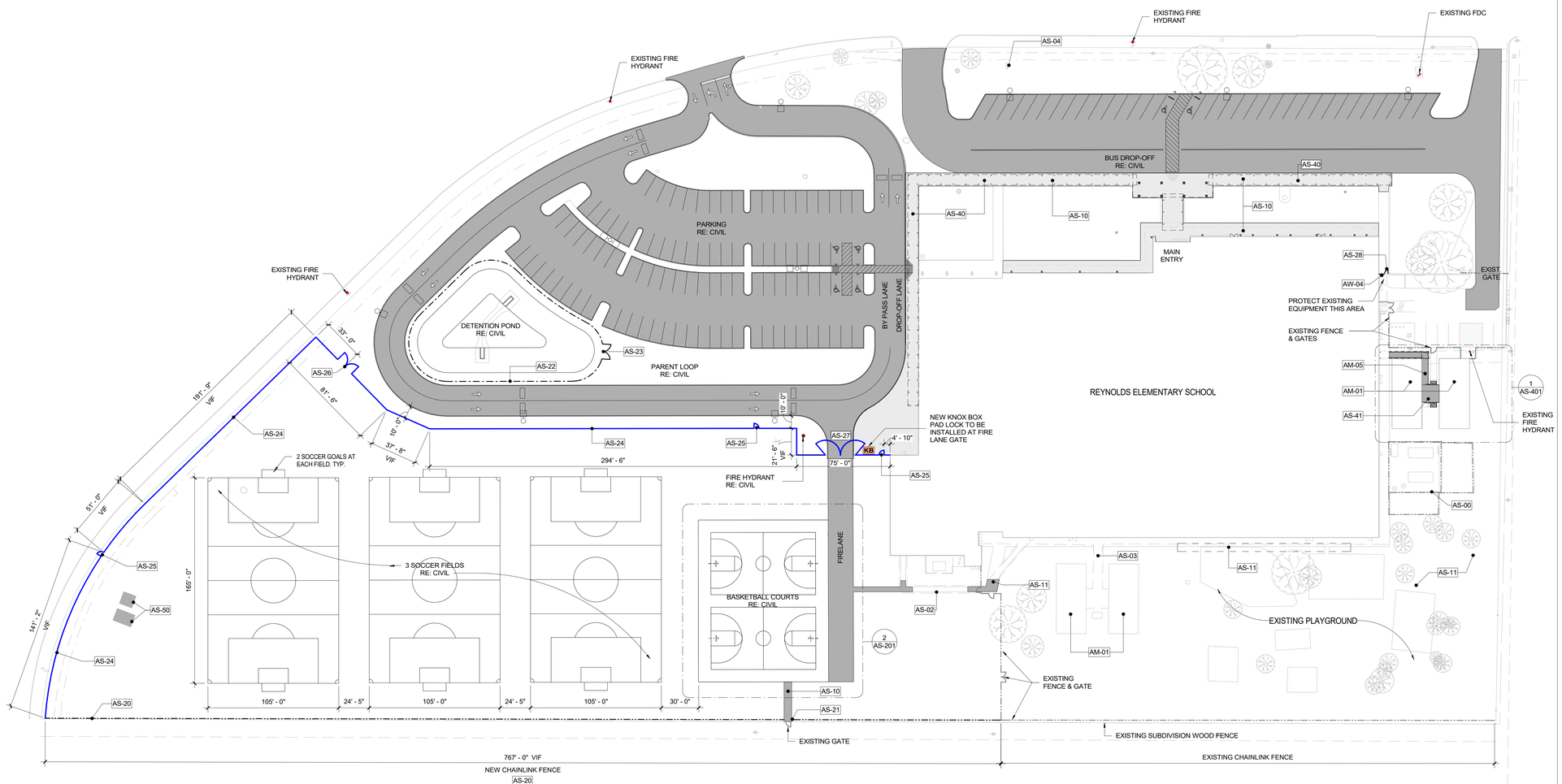
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RCP - DEMO

AD-702



2 BASKETBALL COURT PLANS
1/16" = 1'-0"



1 SITE PLAN
1" = 40'-0"

KEYNOTES

AM-01	EXISTING PORTABLES.
AM-05	NEW PRE-FABRICATED ALUM. RAMP, LANDING, STAIR, & DECK SYSTEM - RE: SPECIFICATIONS
AS-00	EXISTING CHAINLINK FENCE AND GATE
AS-02	EXISTING ALUMINUM WALKWAY CANOPY TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO ACCOMMODATE CIVIL WORK IN THIS AREA
AS-03	EXISTING ALUMINUM WALKWAY CANOPY, RAMP AND STAIR TO PORTABLE BUILDINGS
AS-04	EXISTING ELECTRONIC MARQUEE SIGN
AS-10	NEW SIDEWALK. RE: CIVIL
AS-11	REFER TO CIVIL FOR WORK IN THIS AREA.
AS-20	NEW 8'H GALVANIZED CHAINLINK FENCE. INSTALL IN FRONT OF EXISTING WOOD FENCE. MATCH, ALIGN AND CONNECT WITH EXISTING. RE: SPEC
AS-21	NEW GALVANIZED CHAINLINK FENCE - 4' WIDE GAP IN FRONT OF EXISTING GATE.
AS-22	NEW 6'H BLACK COATED CHAINLINK FENCE AROUND DETENTION POND. RE: SPEC.
AS-23	NEW 6'H BLACK COATED CHAINLINK DOUBLE GATE - 12' WIDE.
AS-24	NEW 8'H BLACK ORNAMENTAL FENCE. RE: SPEC.
AS-25	NEW 8'H BLACK ORNAMENTAL EXIT GATE - 4' WIDE. RE: SPEC.
AS-26	NEW 8'H BLACK ORNAMENTAL DOUBLE GATE - 16' WIDE. RE: SPEC.
AS-27	NEW 8'H BLACK ORNAMENTAL DOUBLE GATE - 24' WIDE. RE: SPEC.
AS-28	NEW 5'-6" H GALVANIZED CHAINLINK GATE & (2) POSTS AT REBUILT BRICK SCREEN WALL - V.I.F. THE WIDTH OF THE GATE +/- 4'-6" W
AS-40	NEW ALUMINUM WALKWAY CANOPY - RE: SHEET A-201. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AS-41	NEW CANTILEVER ALUMINUM WALKWAY CANOPY AT PORTABLES - RE: SHEET AS-401. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AS-50	MOVE STORAGE SHEDS TO THIS NEWLY CLEARED LOCATION PER OWNER'S INSTRUCTION. PREP AREA TO RECEIVE BUILDINGS ONTO NEW LEVEL GROUND AREAS / SUBFLOORS IF REQ'D. VERIFY IN FIELD.
AW-04	REBUILD BRICK SCREEN WALL WITH SALVAGED BRICK TO MATCH & ALIGN WITH EXISTING ADJACENT. EXISTING BRICK SCREEN WALL WAS +/- 3'-10"W X 5'-6"H SCREEN WALL

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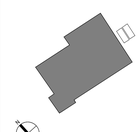
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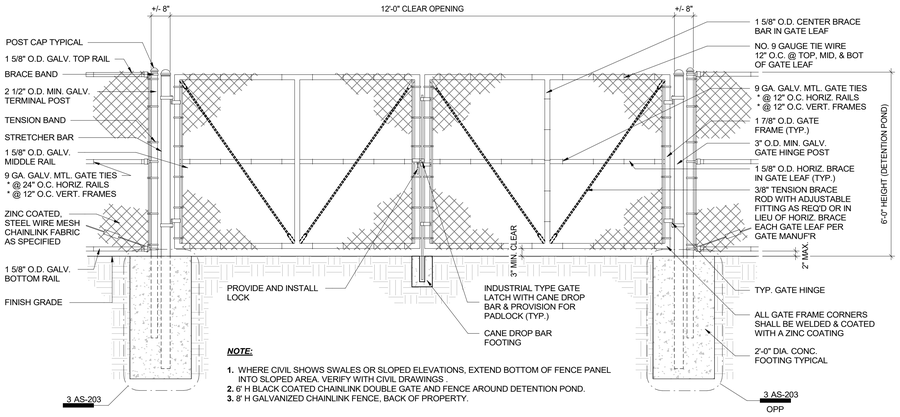
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SITE PLAN

AS-201

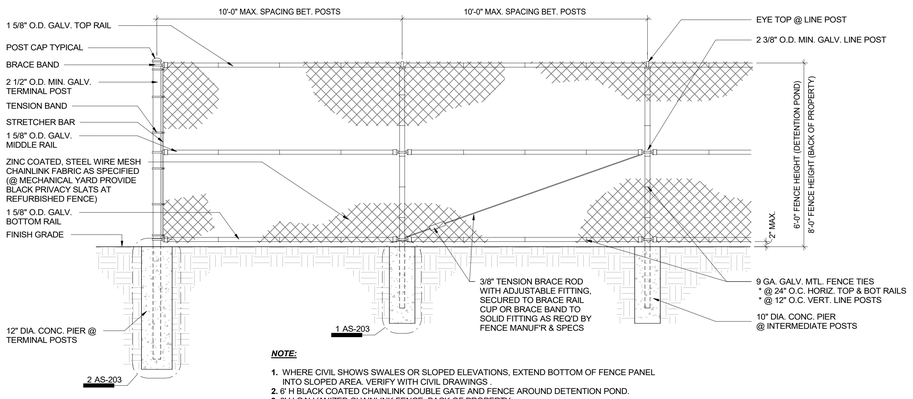


NOTE:

1. WHERE CIVIL SHOWS SWALES OR SLOPED ELEVATIONS, EXTEND BOTTOM OF FENCE PANEL INTO SLOPED AREA. VERIFY WITH CIVIL DRAWINGS.
2. 6' H BLACK COATED CHAINLINK DOUBLE GATE AND FENCE AROUND DETENTION POND.
3. 8' H GALVANIZED CHAINLINK FENCE, BACK OF PROPERTY.

1 CHAINLINK - DBL GATE ELEVATION

1/2" = 1'-0"

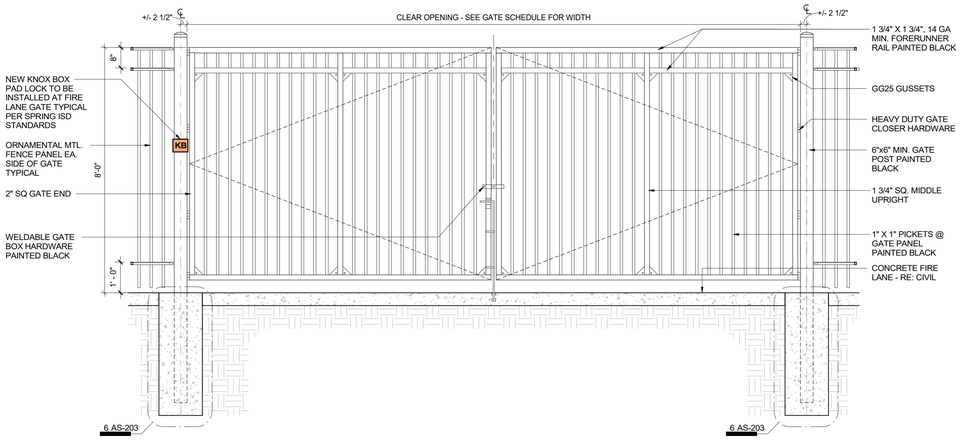


NOTE:

1. WHERE CIVIL SHOWS SWALES OR SLOPED ELEVATIONS, EXTEND BOTTOM OF FENCE PANEL INTO SLOPED AREA. VERIFY WITH CIVIL DRAWINGS.
2. 6' H BLACK COATED CHAINLINK DOUBLE GATE AND FENCE AROUND DETENTION POND.
3. 8' H GALVANIZED CHAINLINK FENCE, BACK OF PROPERTY.

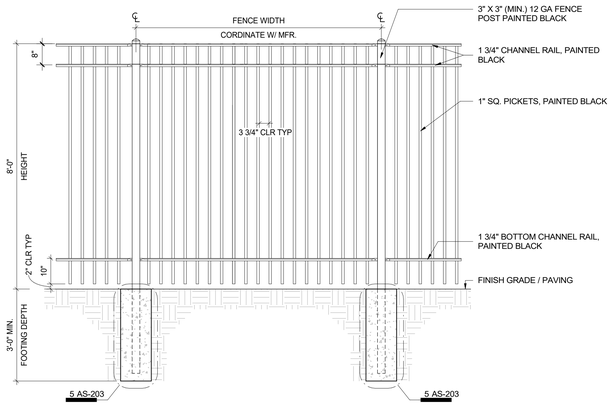
2 CHAINLINK - FENCE ELEVATION 6' - 8'

1/2" = 1'-0"



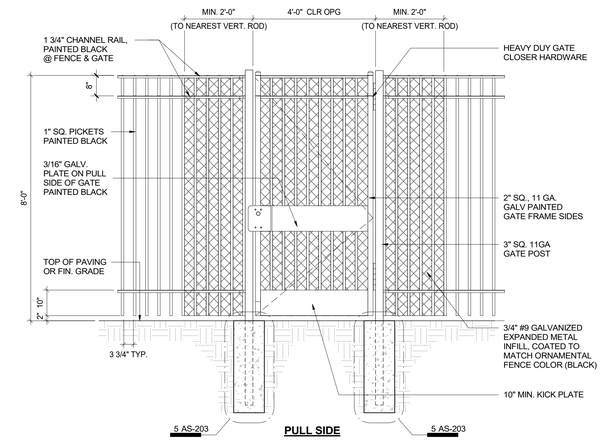
4 ORNAMENTAL GATE - DOUBLE SWING FIRE LANE GATE ELEVATION

1/2" = 1'-0"

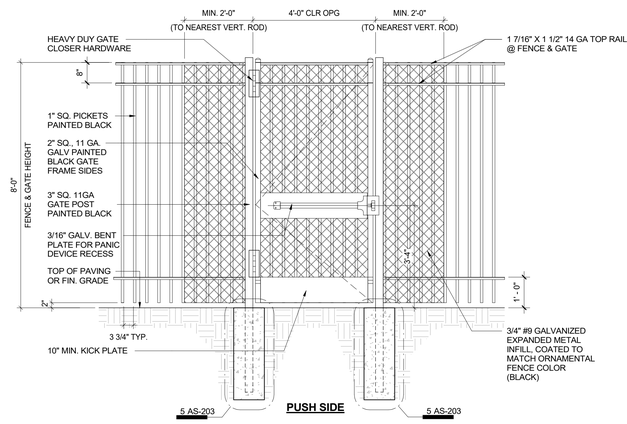


3 ORNAMENTAL FENCE - TYPICAL PANEL ELEVATION

1/2" = 1'-0"



PULL SIDE



PUSH SIDE

GATE HARDWARE SET NO. 2:
(EGRESS GATE W/ STOP)

1 HINGES	MAMMOTH 180 BY DOOR MANUF		
1 EXIT DEVICE -SPAR#04971	CCSD 19 TB 43 70 8804	US32D	SA
1 VANDAL RESISTANT TRIM	826 (HAND TRIM)	US32D	SA
1 INTERCHANGEABLE CORE	IC#X-7	626	BE
1 CONST. CORE	7190224	GREEN	BE
1 BALANCE HARDWARE BY DOOR MANUFACTURER			OT
1 GATE STOP W/ RUBBER BUMPER LOCNOX GATESTOP			

NOTE: TRIM IS ORDERED AS RH OR LH

5 ORNAMENTAL FENCE - EXIT GATE ELEVATIONS

1/2" = 1'-0"

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BROOKS & SPARKS
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DALLY + ASSOCIATES
T 713-337-8881

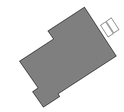
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SALAS O'BRIEN
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Glasbridge Dr, Houston, TX 77068

KEY PLAN





10.22.2025

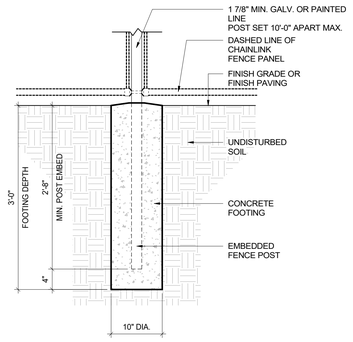
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SISD	2411
DATE	ISSUE
10.22.2025	ISSUE FOR PROPOSALS

REVISIONS

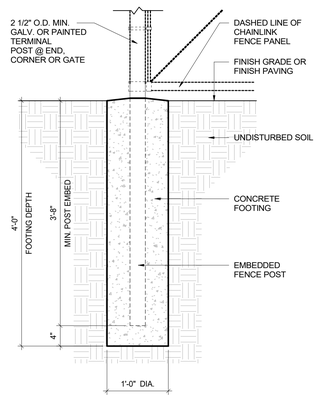
NO.	DESCRIPTION	DATE

SITE DETAILS

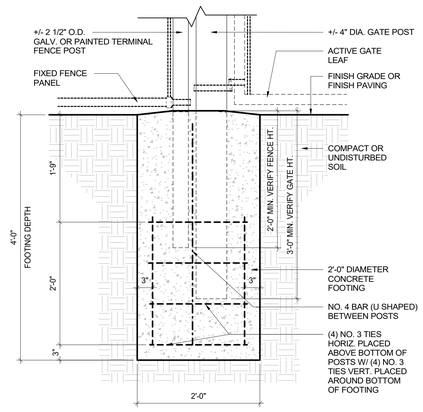
AS-202



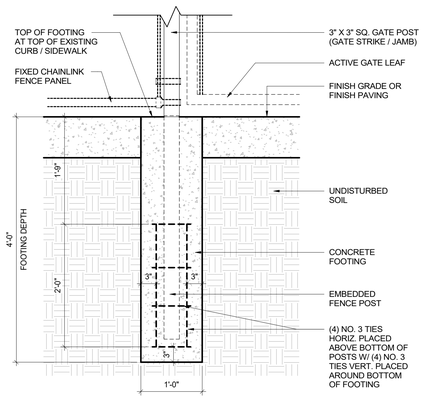
1 CL LINE POST FTG
1" = 1'-0"



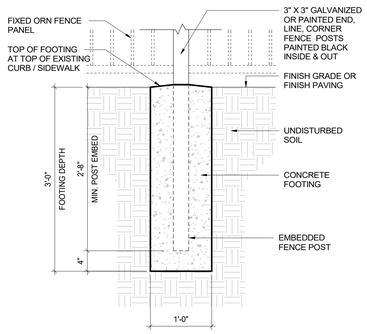
2 CL TERMINAL POST FTG
1" = 1'-0"



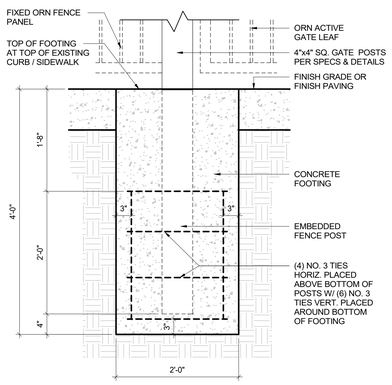
3 CHAINLINK DBL GATE POST FTG
1" = 1'-0"



4 CHAINLINK SGL GATE POST FTG
1" = 1'-0"



5 ORN FENCE POST FOOTING
1" = 1'-0"



6 ORN GATE POST FOOTING
1" = 1'-0"

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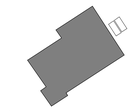
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3975 Gladeridge Dr, Houston, TX 77068

KEY PLAN



REGISTERED ARCHITECT
WENDY H. LEE
22139
STATE OF TEXAS

10.22.2025

CLIENT	IN2 PROJECT NUMBER
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SITE DETAILS

AS-203

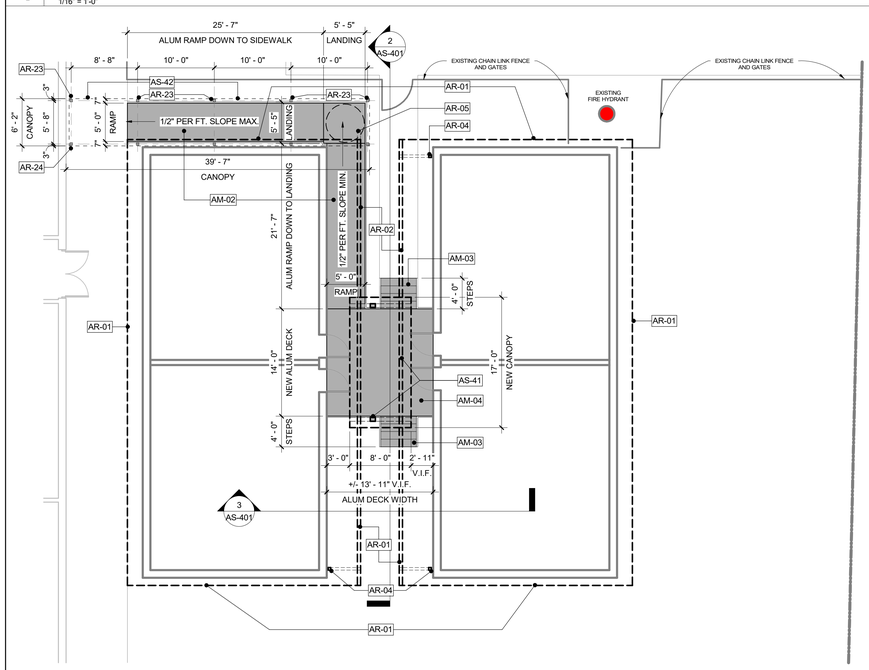
4 EXISTING PORTABLES PHOTOS

1/16" = 1'-0"



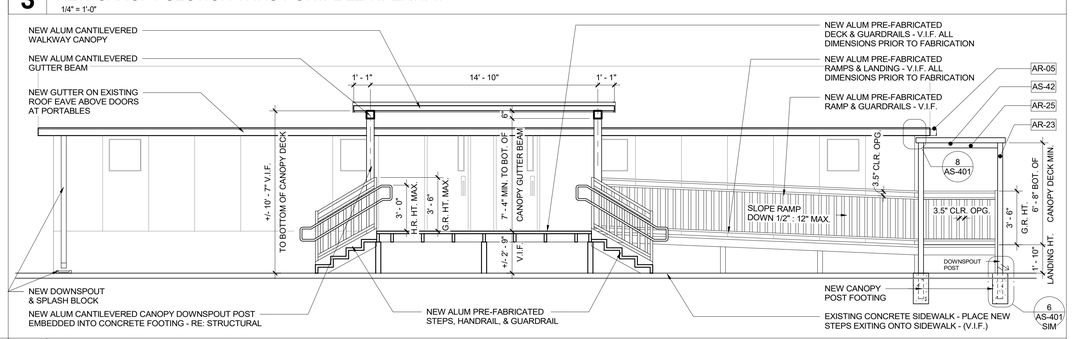
1 ENLG PLAN PORTABLES

1/8" = 1'-0"



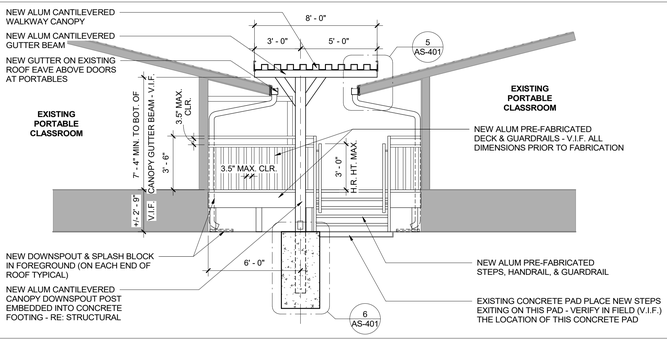
2 NEW CANOPY SECTION - LOOKING EAST BETWEEIN PORTABLES

1/4" = 1'-0"



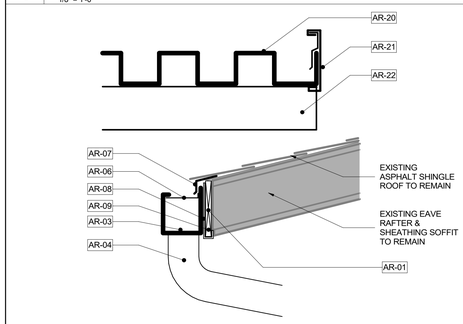
3 NEW CANOPY SECTION THRU PORTABLE WALKWAY

1/4" = 1'-0"



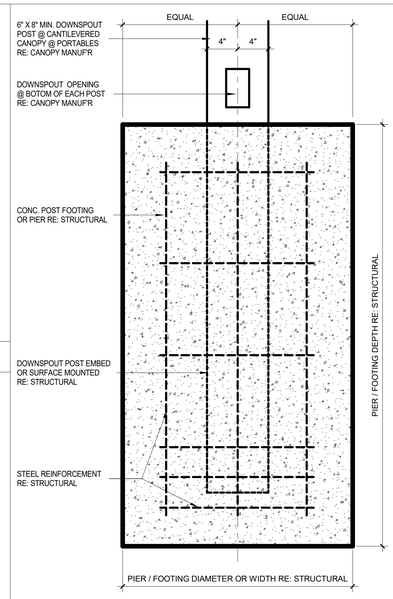
4 EXISTING PORTABLES PHOTOS

1/16" = 1'-0"



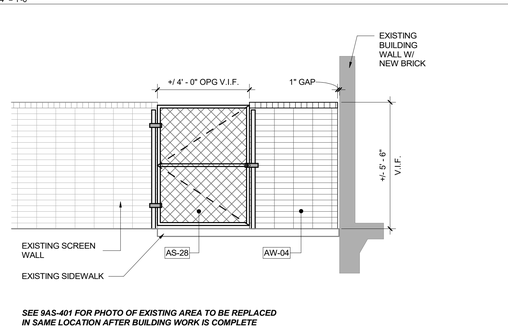
5 EXISTING PORTABLE - NEW GUTTER

1 1/2" = 1'-0"



6 EXISTING PORTABLE - NEW CANOPY FOOTING

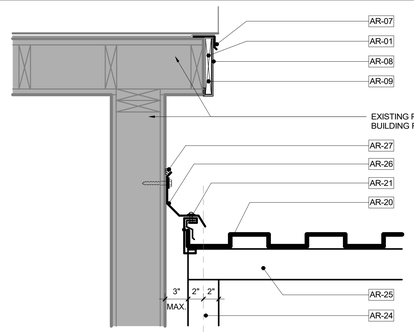
1 1/2" = 1'-0"



SEE 9AS-401 FOR PHOTO OF EXISTING AREA TO BE REPLACED IN SAME LOCATION AFTER BUILDING WORK IS COMPLETE

7 EXISTING SCREEN WALL & GATE ELEVATION

3/8" = 1'-0"



8 EXISTING PORTABLE - WALL TO CANOPY FLASHING

1 1/2" = 1'-0"

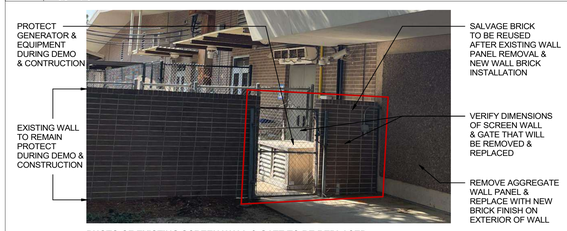


PHOTO OF EXISTING SCREEN WALL & GATE TO BE REPLACED

9 EXISTING SCREEN WALL & GATE

1/16" = 1'-0"

PORTABLE BUILDING GENERAL NOTES

A. REPLACE METAL CLAD FACIA TYPICAL FOR BOTH PORTABLE BUILDINGS.
B. INSTALL GUTTER AND DOWNSPOUTS AS INDICATED.
C. REMOVE EXISTING WOOD RAMPS AND STAIRS.
D. INSTALL NEW PREFABRICATED MODULAR ALUMINUM RAMPS, STAIRS AND RAILING. REFER TO SPECIFICATIONS 055250.
E. INSTALL NEW EXTRUDED ALUMINUM CANOPIES. REFER TO SPECIFICATIONS 107300.
F. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS REQUIRED PRIOR TO SHOP DRAWING SUBMITTAL. COORDINATE CANOPY AND RAMP / STAIR LAYOUT WITH EXISTING CONDITIONS.
G. CONTRACTOR SHALL NOT SCALE DRAWINGS

KEYNOTES

AM-02	NEW PRE-FABRICATED ALUM. RAMP & LANDING SYSTEM - RE: SPECIFICATIONS
AM-03	NEW PRE-FABRICATED ALUM. STEPS @ DECK - RE: SPECIFICATIONS
AM-04	NEW PRE-FABRICATED ALUM. DECK CONNECTING PORTABLE CLASSROOMS - RE: SPECIFICATIONS
AR-01	AT EXISTING PORTABLE ROOF PERIMETER, CHANGE OUT ALL METAL COVERED WOOD FASCIA & METAL EDGE FLASHING WITH NEW, COLOR TO MATCH EXISTING PORTABLES (BRONZE COLOR)
AR-02	AT EXISTING PORTABLE ROOF EAVES OVER DOORS, ADD NEW PRE-FINISHED METAL GUTTERS & DOWNSPOUTS (ON EACH END) - 5 X 5 GUTTER WITH 4 X 4 DOWNSPOUTS EA. END - COLOR TO MATCH EXISTING (BRONZE COLOR)
AR-03	NEW 5"X5" PRE-FINISHED METAL GUTTER TO MATCH EXISTING PORTABLES (BRONZE COLOR)
AR-04	NEW 4"X4" PRE-FINISHED METAL DOWNSPOUT TO MATCH EXISTING PORTABLES (BRONZE COLOR)
AR-05	NEW OPEN END GUTTER WITH TONGUE EMPTYING OUT WATER ONTO NEW CANOPY
AR-06	NEW PRE-FINISHED GUTTER HANGER
AR-07	NEW PRE-FINISHED METAL DRIP EDGE FLASHING
AR-08	NEW PRE-FINISHED METAL FASCIA WRAPPED AROUND NEW FASCIA BOARD
AR-09	NEW 1 X 8 TREATED WOOD FASCIA BOARD
AR-20	NEW ALUM METAL CANOPY ROOF DECK
AR-21	NEW ALUM CANOPY EDGE FLASHING
AR-22	NEW ALUM CANOPY CANTILEVERED GUTTER BEAM
AR-23	NEW ALUM CANOPY DOWNSPOUT POST
AR-24	NEW ALUM CANOPY SUPPORT POST
AR-25	NEW ALUM CANOPY GUTTER BEAM
AR-26	NEW ALUM CANOPY ROOF DECK TO WALL FLASHING
AR-27	CONT. BEAD OF SILICON SEALANT
AS-28	NEW 5'-6" H GALVANIZED CHAINLINK GATE & (2) POSTS AT REBUILT BRICK SCREEN WALL - V.I.F. THE WIDTH OF THE GATE +/- 4'-6" W
AS-41	NEW CANTILEVER ALUMINUM WALKWAY CANOPY AT PORTABLES - RE: SHEET AS-401. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AS-42	NEW ALUMININUM WALKWAY CANOPY AT PORTABLES - RE: SHEET AS-401. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AW-04	REBUILD BRICK SCREEN WALL WITH SALVAGED BRICK TO MATCH & ALIGN WITH EXISTING ADJACENT. EXISTING BRICK SCREEN WALL WAS +/- 3'-10"W X 5'-6"H SCREEN WALL

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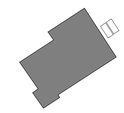
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SALAS O'BRIEN
T. 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3910 Gladebridge Dr, Houston, TX 77068

KEY PLAN





10.22.2025

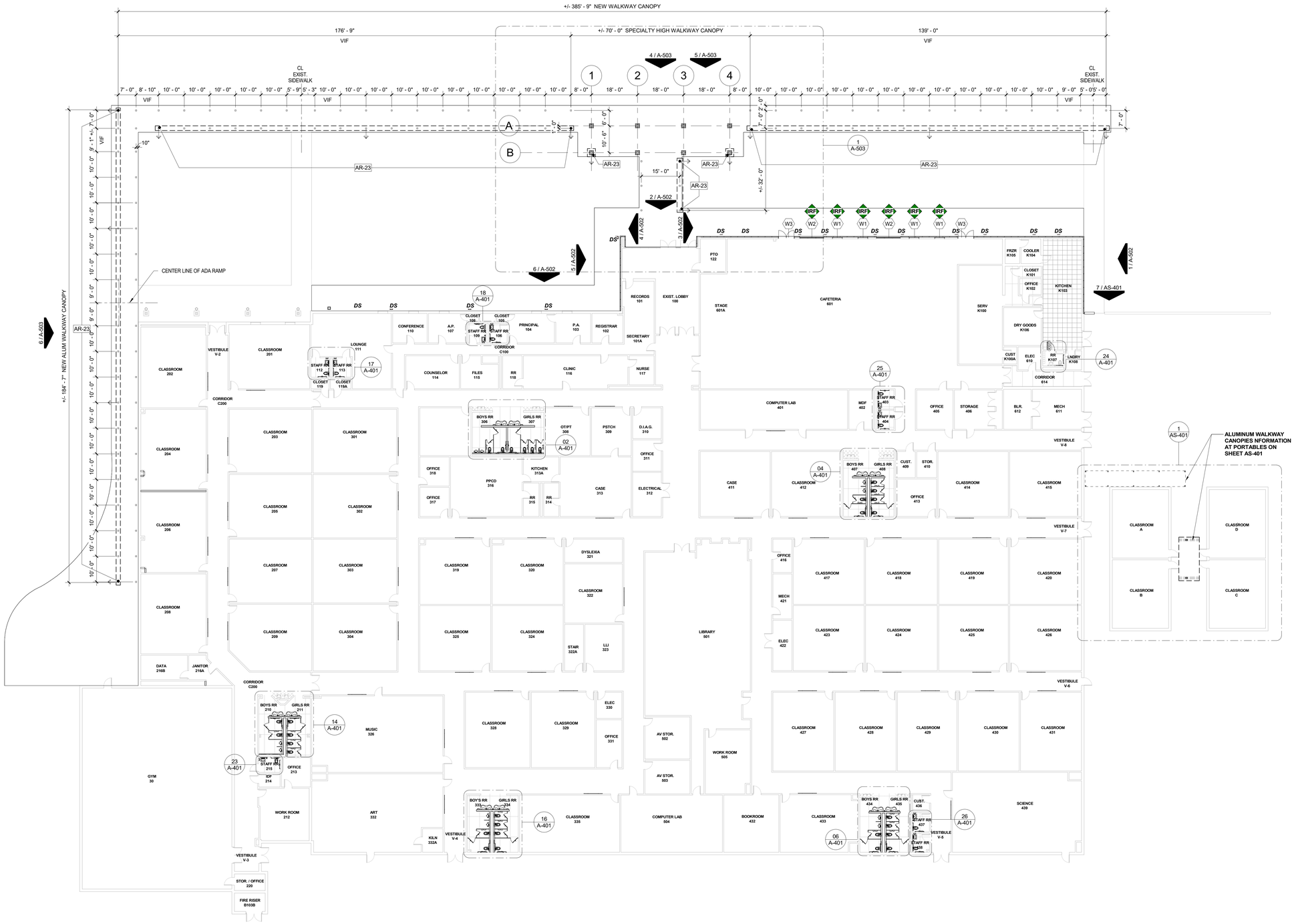
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ENLARGED PORTABLES PLANS

AS-401



FLOOR PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE TO THE FACE OF STUD/FACE OF CMU/FACE OF TILT WALL OF INTERIOR WALLS, UNLESS OTHERWISE INDICATED.
2. ALL SINKS AND LAVATORIES SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE FIXTURE IS 1'-3" MIN. TO THE FACE OF ADJACENT FIXED EQUIPMENT, PARTITIONS, CASEWORK, WALLS, ETC. AND 1'-3" MIN. TO THE CENTER OF AN ADJACENT FIXTURE.
3. PROVIDE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING.

FLOOR PLAN LEGEND

- NEW CONSTRUCTION
- EXISTING/ NOT IN SCOPE
- 1/ A101 Ref — INTERIOR ELEVATION TAG
- 1 / A101 — SIIM ENLARGED CALL OUT
- 5' DIAMETER ADA TURN AROUND
- NOT IN SCOPE
- QFT-1
- PFT-1
- IRF — NEW IMPACT RESISTANT GLAZING FILM
- W2 — NEW WINDOW & NEW WORK ON EXISTING GLAZING - SEE 8A/502
- DS — NEW DOWNSPOUT TO EXISTING ROOF DRAIN AT EXISTING ROOF ABOVE

KEYNOTES

AR-23 NEW ALUM CANOPY DOWNSPOUT POST

06 COMPOSITE FLOOR PLAN
1/16" = 1'-0"

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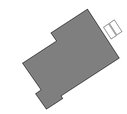
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KEY PLAN



REGISTERED ARCHITECT
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22139
STATE OF TEXAS

10.22.2025

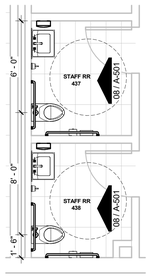
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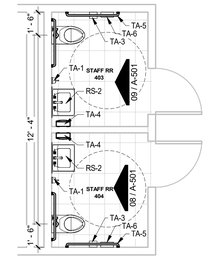
NO.	DESCRIPTION	DATE

FLOOR PLAN

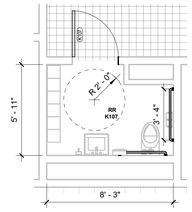
A-201



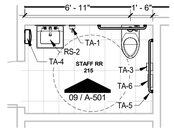
26 STAFF RR 437/438
1/4" = 1'-0"



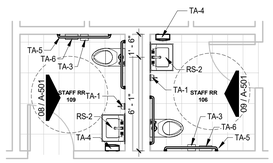
25 STAFF RR 403/404
1/4" = 1'-0"



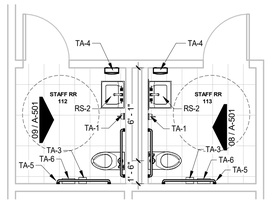
24 KITCHEN RR K107
1/4" = 1'-0"



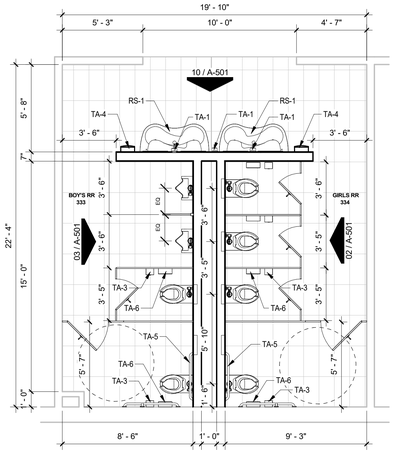
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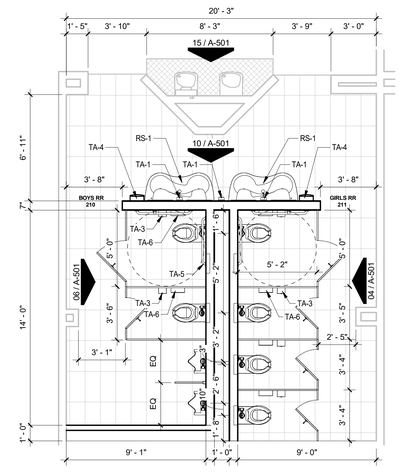
18 STAFF RR 106/109
1/4" = 1'-0"



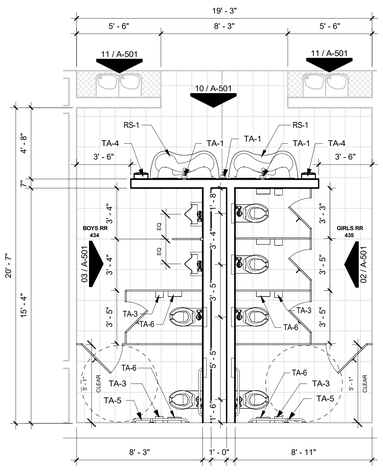
17 STAFF RR 112/113
1/4" = 1'-0"



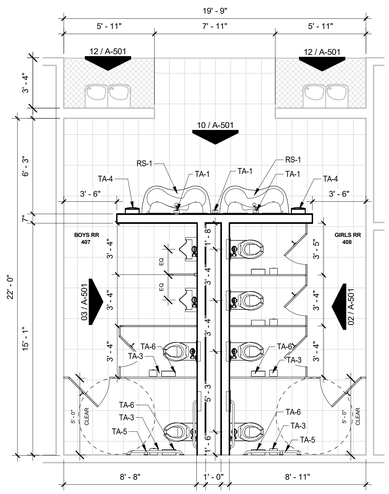
16 RR 333/334 - ENLARGED PLAN
1/4" = 1'-0"



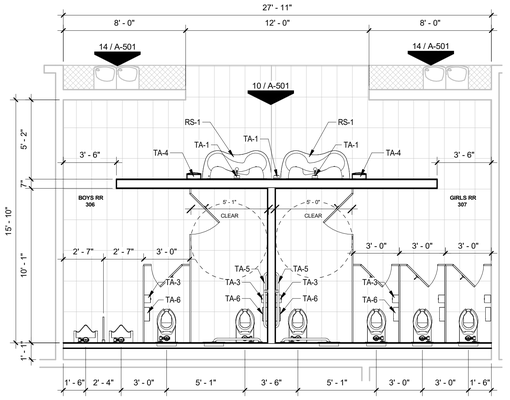
14 RR 210/211 - ENLARGED PLAN
1/4" = 1'-0"



06 RR 434/435 - ENLARGED PLAN
1/4" = 1'-0"



04 RR 407/408 - ENLARGED PLAN
1/4" = 1'-0"



02 RR 306/307 - ENLARGED PLAN
1/4" = 1'-0"

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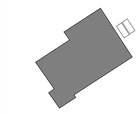
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3979 Gladebridge Dr, Houston, TX 77068

KEY PLAN



REGISTERED ARCHITECT
WENDY H. LEE
22139
STATE OF TEXAS

10.22.2025

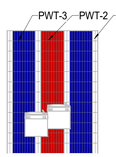
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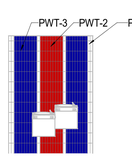
NO.	DESCRIPTION	DATE

ENLARGED RESTROOM PLANS

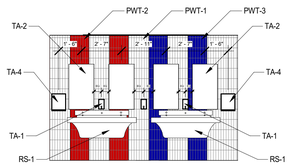
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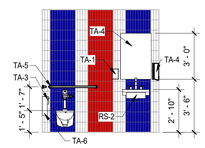
12 RR 407/408 DRINKING FOUNDATION - ELEV.
1/4" = 1'-0"



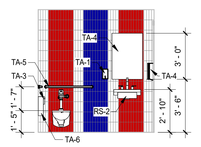
11 RR 434/435 DRINKING FOUNDATION - ELEV.
1/4" = 1'-0"



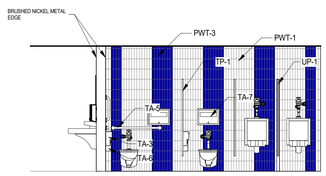
10 TYP. SINK AREA - ELEV.
1/4" = 1'-0"



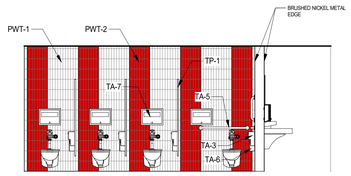
09 TYP. STAFF RESTROOM - ELEV. 1
1/4" = 1'-0"



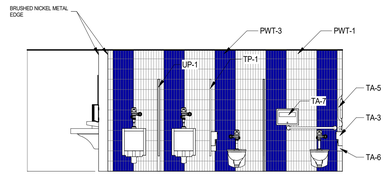
08 TYP. STAFF RESTROOM - ELEV. 2
1/4" = 1'-0"



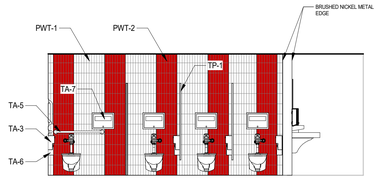
06 BOYS RESTROOM 210 - ELEV.
1/4" = 1'-0"



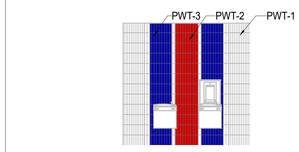
04 GIRLS RESTROOM 211 - ELEV.
1/4" = 1'-0"



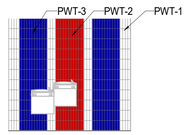
03 TYP. BOYS RESTROOM - ELEV.
1/4" = 1'-0"



02 TYP. GIRLS RESTROOM - ELEV.
1/4" = 1'-0"



15 RR 210/211 DRINKING FOUNDATION - ELEV.
1/4" = 1'-0"



14 RR 306/307 DRINKING FOUNDATION - ELEV.
1/4" = 1'-0"

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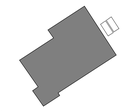
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MAINTENANCE IMPROVEMENTS

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KEY PLAN



PLAN NORTH

TRUE

REGISTERED ARCHITECT
WENDY H. LEE
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STATE OF TEXAS

10.22.2025

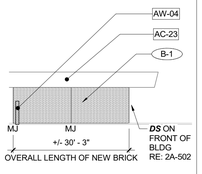
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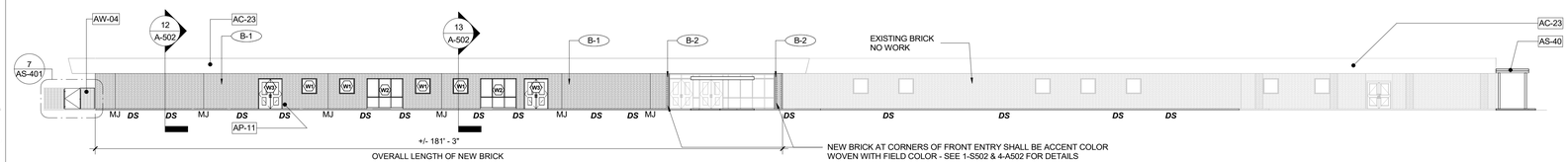
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ELEVATIONS - RESTROOMS

A-501



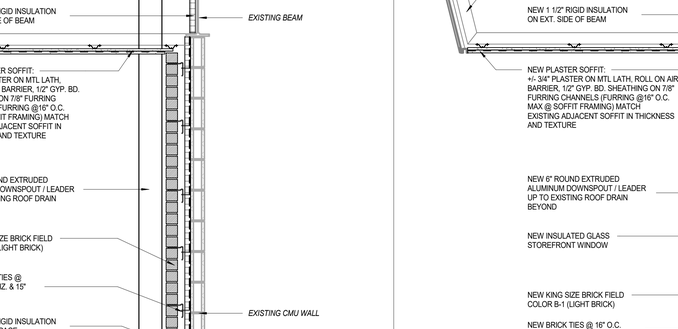
1 ELEVATION - WEST 2
1/16" = 1'-0"



2 CANOPY ELEVATION - NORTH
1/16" = 1'-0"

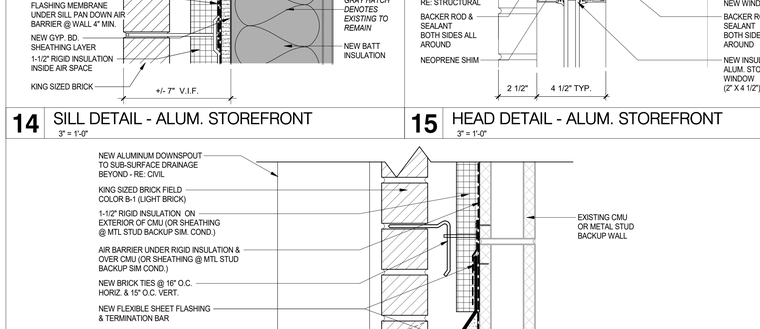
3 ELEVATION - EAST
1/16" = 1'-0"

4 ELEVATION - WEST
1/16" = 1'-0"

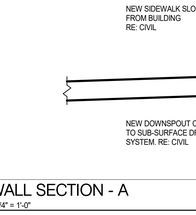


5 DEDICATION WALL - EAST ELEV.
1/4" = 1'-0"

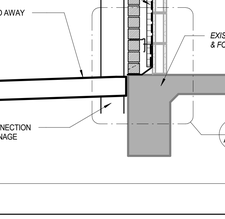
6 NORTH WALL
1/4" = 1'-0"



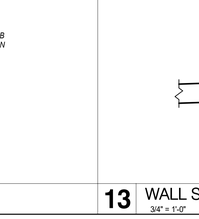
7 NEW EXTERIOR BRICK RENDERS
1" = 1'-0"



NEW ALUMINUM STOREFRONT MATCH EXISTING SIZE, PROFILE, STYLE, FINISH AND COLOR

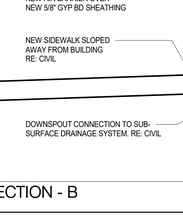


NEW ALUMINUM STOREFRONT MATCH EXISTING SIZE, PROFILE, STYLE, FINISH AND COLOR

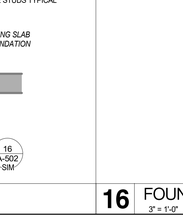


NEW ALUMINUM STOREFRONT FRAME REINSTALL EXISTING DOOR AND HARDWARE. PROVIDE NEW CONTINUOUS HINGE, GASKETS AND THRESHOLD

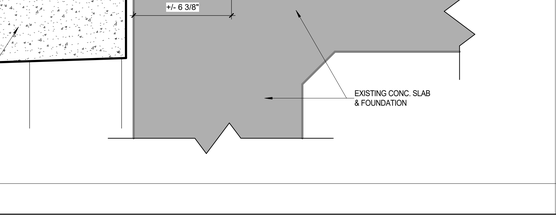
8 EXTERIOR OPENING TYPES
1/4" = 1'-0"



9 CONTROL JOINT DETAIL - SOFFIT
3" = 1'-0"



10 EXPANSION JOINT DETAIL - SOFFIT
3" = 1'-0"



11 JAMB DETAIL - ALUM. STOREFRONT
3" = 1'-0"

EXTERIOR GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING BUILDING CONDITIONS PRIOR TO BIDDING, DEMOLITION AND WORK.
2. DIMENSIONS SHOWN ARE APPROXIMATED FROM OWNER PROVIDED AS-BUILTS. GC TO FIELD VERIFY.
3. REPLACE DEMOLISHED PLASTER SOFFIT, ASSOCIATED LIGHT FIXTURES AND ACCESS PANELS WITH NEW. REFER TO MEPT DRAWINGS FOR ADDITIONAL INSTRUCTION.
4. REPLACE DEMOLISHED WINDOWS AND STOREFRONT SYSTEM WITH NEW. MATCH EXISTING SIZE, STYLE AND FINISHES. REPLACE BRICK LOOSE LINTELS AS REQUIRED.
5. REPLACE DEMOLISHED METAL DOWNSPOUTS WITH NEW. CONNECT TO SUBSURFACE DRAINAGE AS SHOWN IN CIVIL DOCUMENTS. WHERE DOWNSPOUTS ARE REMOVED FROM EXISTING MASONRY WALLS TO REMAIN, PATCH AND REPAIR WALL IF REQUIRED.
6. REPAINTING WORK REQUIRED FOR ALL EXISTING PLASTER FACIA AND SOFFIT: GENTLY REMOVE MILDEW, RUST, STAIN, DIRT, DUST, EFFLORESCENCE, LOOSE PAINT AND ANY FOREIGN MATTER. REPAIR AND CAULK CRACKS OR HOLES AS REQUIRED. REFER TO MPI (MASTER PAINT INSTITUTE) AND PAINT MANUFACTURER'S GUIDELINES AND RECOMMENDATIONS FOR CLEANING AND REPAINTING REQUIREMENTS. PAINT EXISTING AND NEW PLASTER SURFACES PER SPECIFICATION. COLOR TO MATCH EXISTING OR AS SELECTED BY ARCHITECT FROM FULL RANGE. REFER TO SPECIFICATION SECTION 099650 SILICON ELASTOMERIC COATING.
7. DIMENSIONS SHOWN WITH V/F (VERIFY IN FIELD) ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCING WORK.

GLASS TYPE LEGEND

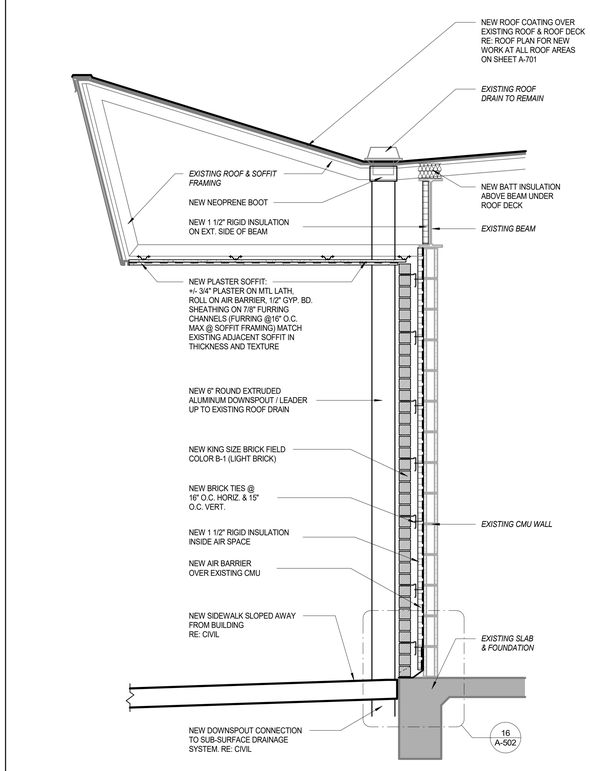
IG-1	INSULATED GLASS (EXTERIOR)
IRF	INSTALL IMPACT RESISTANT FILM WHERE INDICATED. RE: SPEC 088700

DRAWING LEGEND

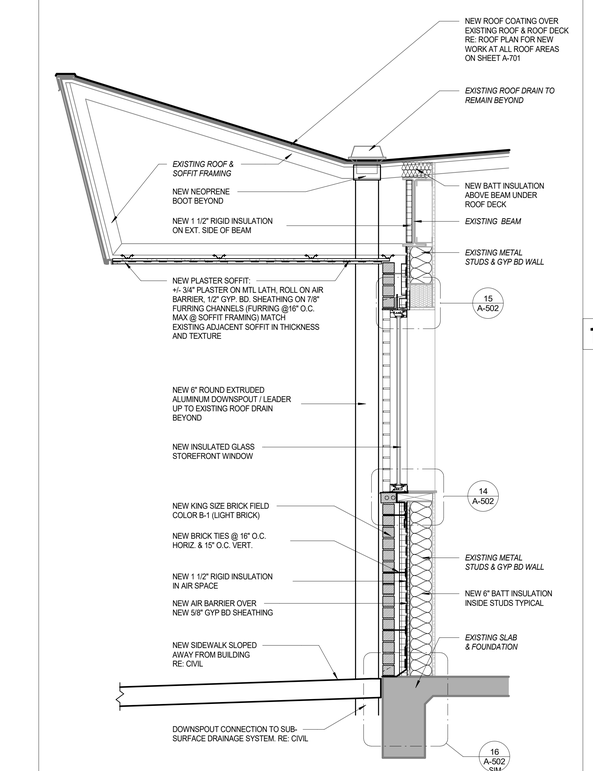
B-1	KING SIZE BRICK, VELOUR FINISH - FIELD COLOR **ACME BRICK YANKEE HILL - BEIGE VELOUR**
B-2	KING SIZE BRICK, VELOUR FINISH - ACCENT COLOR **ACME BRICK YANKEE HILL - COLOR: G-3**
MJ	MASONRY JOINT IN NEW BRICK FENESTRATION
W2	NEW WINDOW & NEW WORK ON EXISTING GLAZING - SEE 8A/502
DS	NEW DOWNSPOUT / DRAIN LEADER TO REPLACE EXISTING

KEYNOTES

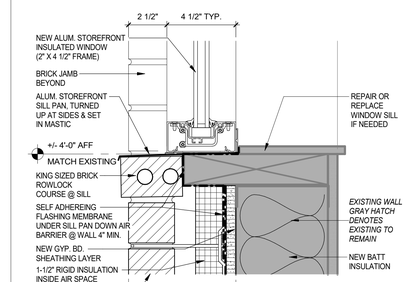
AC-23	PREP, CLEAN, REPAIR, & PAINT FASCIA OF EXISTING ROOF FROM EDGE FLASHING DOWN TO SOFFIT
AP-11	NEW HEAVY GAUGE METAL DRAIN LEADER - NEW 6" ROUND PRE-FINISHED METAL DOWNSPOUT WITH A NEOPRENE BOOT CONNECTION. CONNECT DOWNSPOUT TO SUBSURFACE DRAINAGE SYSTEM SHOWN ON CIVIL DRAWINGS.
AS-40	NEW ALUMINUM WALKWAY CANOPY - RE: SHEET A-201. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL.
AW-04	REBUILD BRICK SCREEN WALL WITH SALVAGED BRICK TO MATCH & ALIGN WITH EXISTING ADJACENT. EXISTING BRICK SCREEN WALL WAS +/- 3'-10"W X 5'-6"H SCREEN WALL



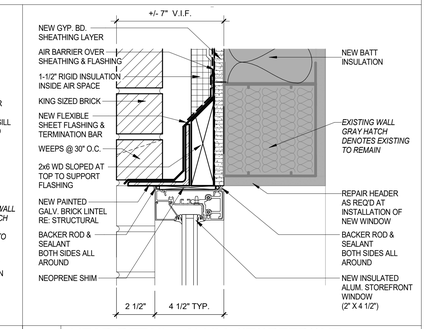
12 WALL SECTION - A
3/4" = 1'-0"



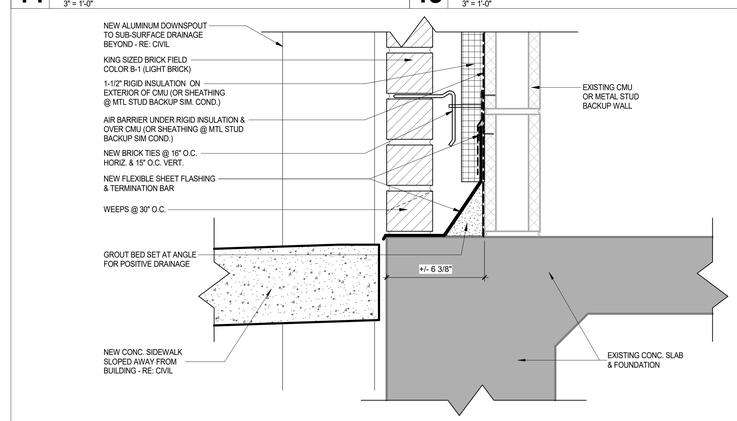
13 WALL SECTION - B
3/4" = 1'-0"



14 SILL DETAIL - ALUM. STOREFRONT
3" = 1'-0"



15 HEAD DETAIL - ALUM. STOREFRONT
3" = 1'-0"



16 FOUNDATION DETAIL
3" = 1'-0"

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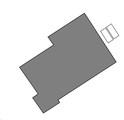
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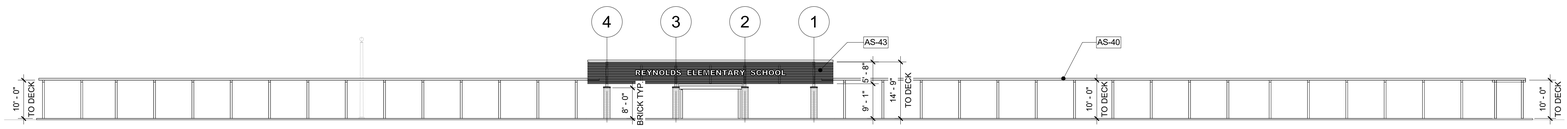
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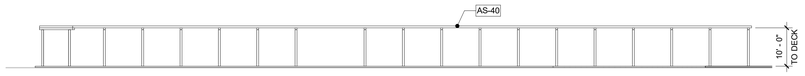
ELEVATIONS, SECTIONS AND DETAILS - EXTERIOR WALL

A-502



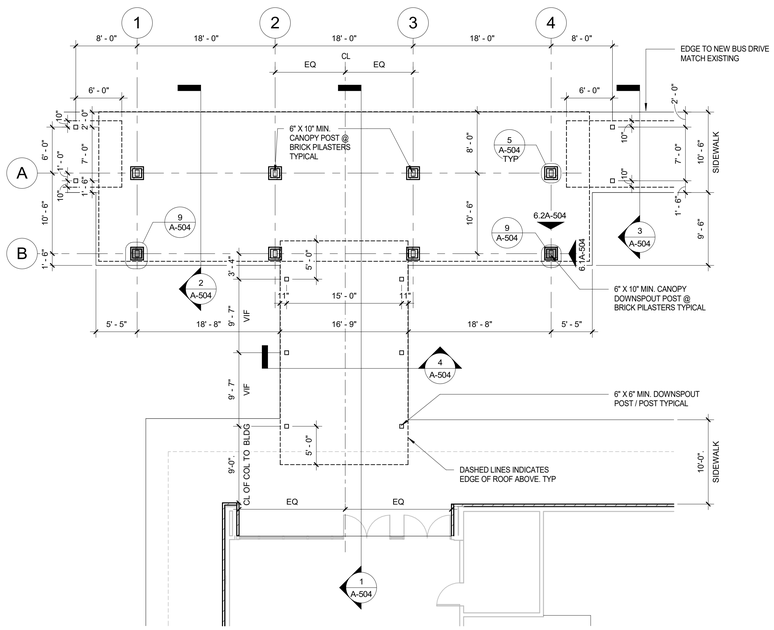
5 OVERALL CANOPY ELEVATION - SOUTH

1/16" = 1'-0"



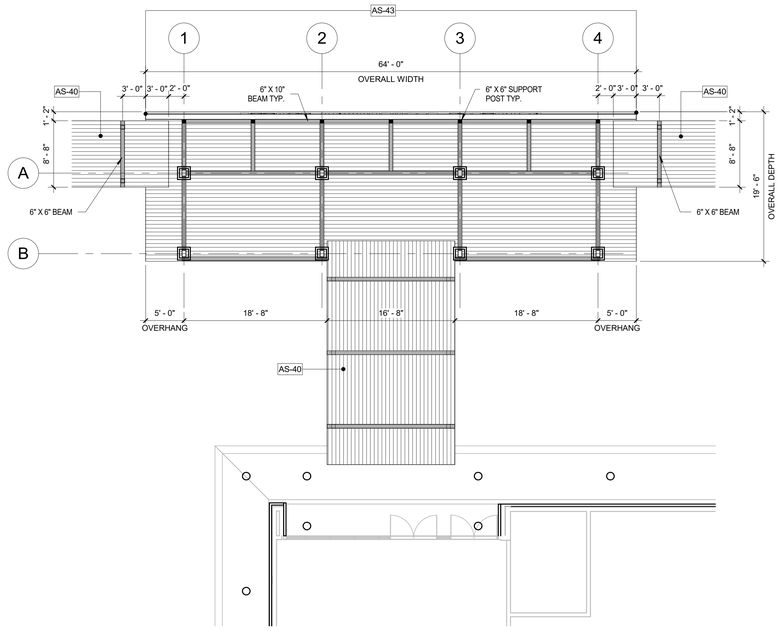
6 OVERALL CANOPY ELEVATION - WEST

1/16" = 1'-0"



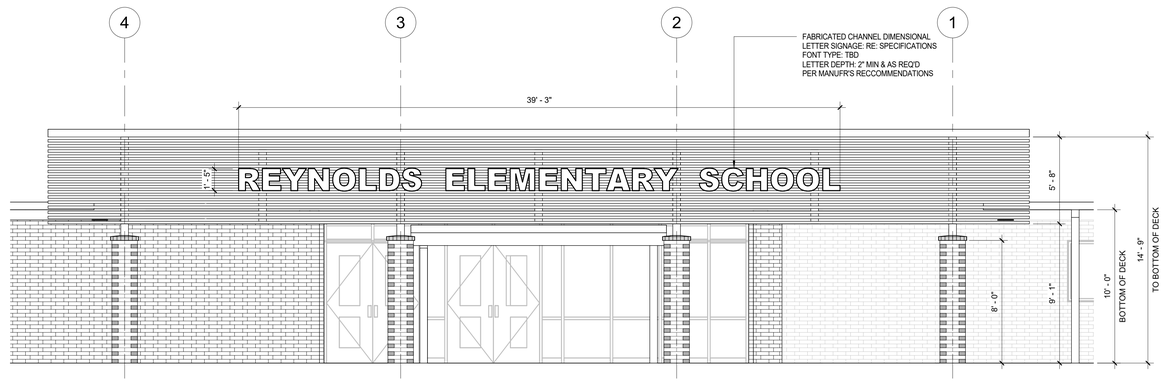
1 ENLARGED ENTRY PLAN

1/8" = 1'-0"



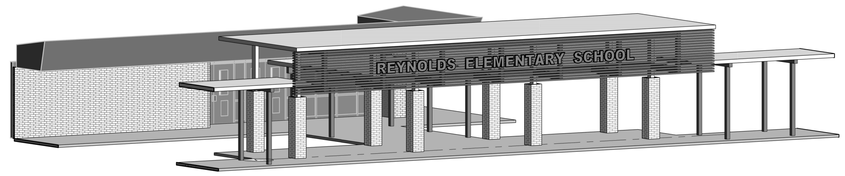
2 ENLARGED RCP

1/8" = 1'-0"



4 CANOPY SIGNAGE

1/4" = 1'-0"



3 CANOPY 3D VIEW

CANOPY GENERAL NOTES

A. REFER TO SPECIFICATIONS 107300 WALKWAY CANOPIES.
B. ENTRY CANOPY HEIGHT DIMENSIONS SHOWN ARE FROM BUILDING FINISH FLOOR. HEIGHTS MAY VARIES FROM SIDEWALK ELEVATIONS.
C. CONTRACTOR FIELD VERIFY ALL DIMENSIONS REQUIRED PRIOR TO SHOP DRAWING SUBMITTAL. COORDINATE CANOPY LAYOUT WITH EXISTING CONDITIONS.
D. DIMENSIONS SHOWN WITH V/F (VERIFY IN FIELD) ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCING WORK.
E. CONTRACTOR SHALL NOT SCALE DRAWINGS

KEYNOTES

AS-40	NEW ALUMINUM WALKWAY CANOPY - RE: SHEET A-201. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AS-43	NEW ALUMINUM WALKWAY FEATURE ENTRY CANOPY @ DROP OFF - RE: SHEETS A-503 & A-504. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL

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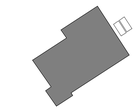
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KEY PLAN



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10.22.2025

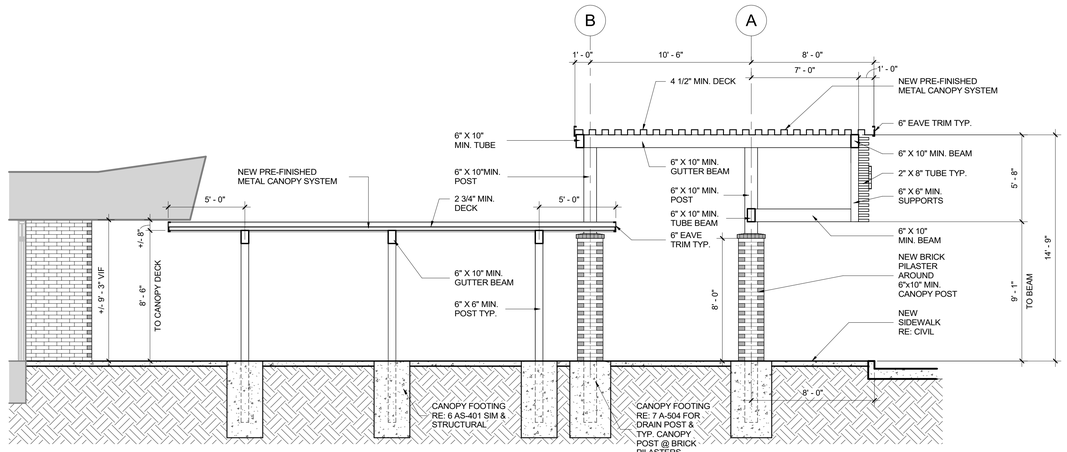
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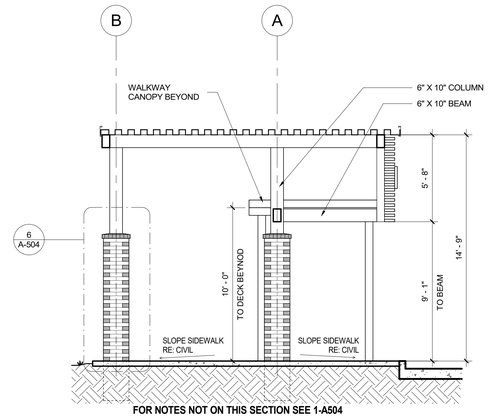
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ELEVATIONS, SECTIONS AND DETAILS - CANOPY

A-503

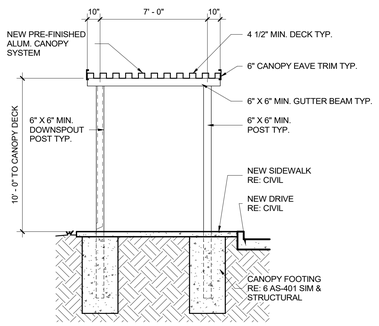


1 CANOPY SECTION #1
1/4" = 1'-0"

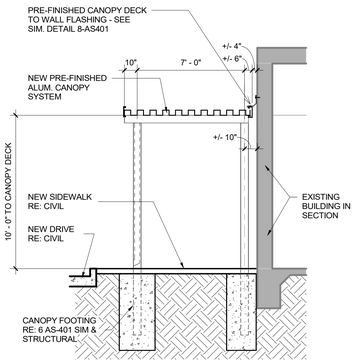


FOR NOTES NOT ON THIS SECTION SEE 1-A504

2 CANOPY SECTION #2
1/4" = 1'-0"

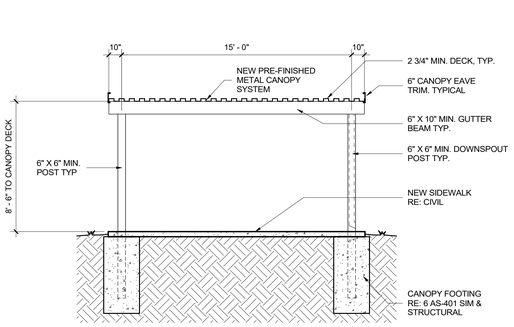


3 CANOPY SECTION #3
1/4" = 1'-0"

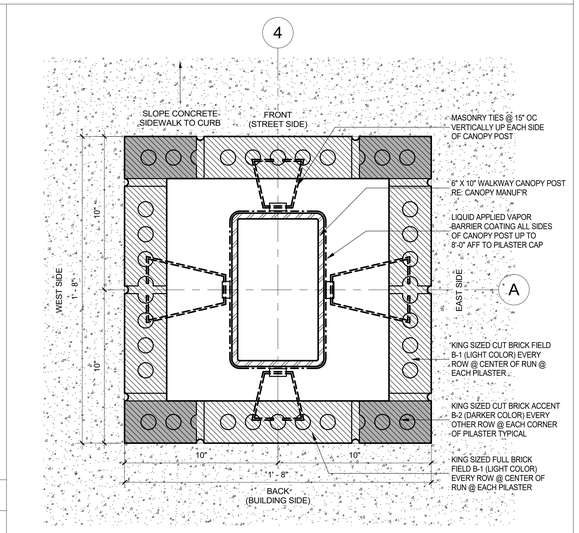


NOTE: FOR NOTES NOT ON THIS SECTION SEE 3A-504

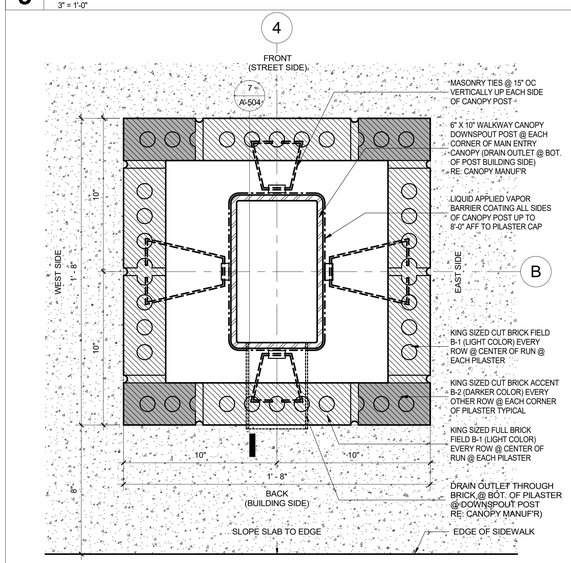
3.5 CANOPY SECTION #5
1/4" = 1'-0"

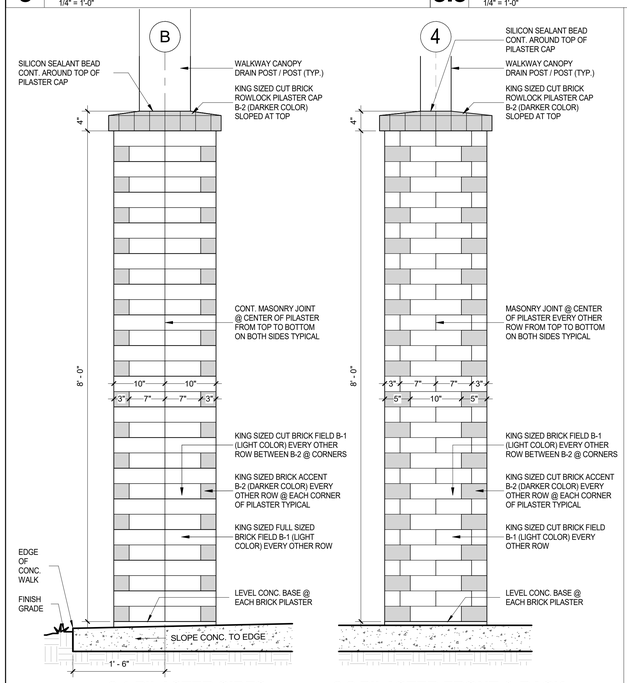


4 CANOPY SECTION #4
1/4" = 1'-0"



5 CANOPY POST DETAIL - TYPICAL
3" = 1'-0"

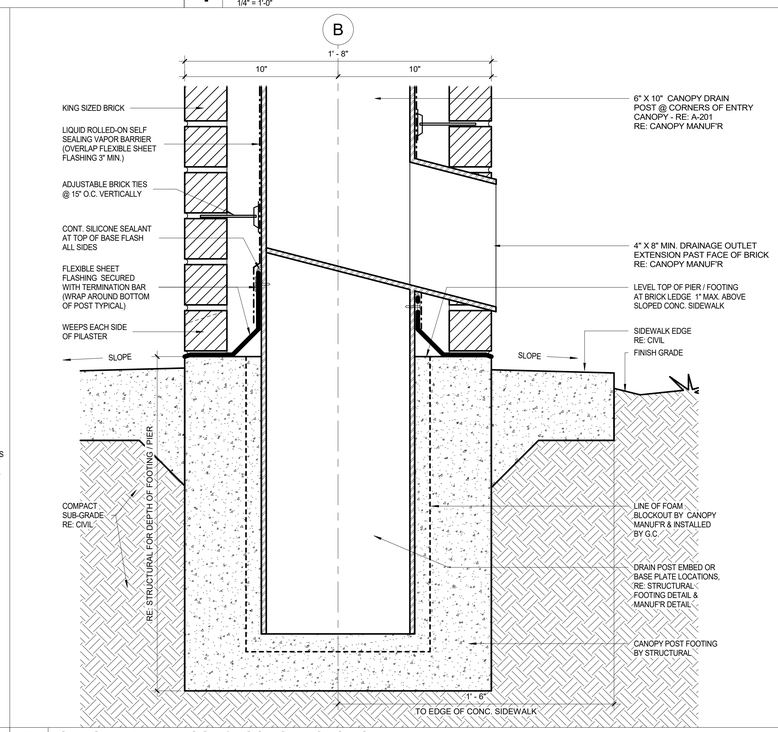




6.1 PILASTER SIDES BRICK ELEVATION

6.2 PILASTER FRONT & BACK BRICK ELEVATION

6 BRICK PILASTER - SIDE & FRONT ELEVATIONS
1" = 1'-0"



7 CANOPY DRAIN POST / POST SIM. SECTION
3" = 1'-0"

9 CANOPY DRAIN POST DETAIL
3" = 1'-0"

CANOPY GENERAL NOTES

A. REFER TO SPECIFICATIONS 107300 WALKWAY CANOPIES.
B. ENTRY CANOPY HEIGHT DIMENSIONS SHOWN ARE FROM BUILDING FINISH FLOOR. HEIGHTS MAY VARIES FROM SIDEWALK ELEVATIONS.
C. CONTRACTOR FIELD VERIFY ALL DIMENSIONS REQUIRED PRIOR TO SHOP DRAWING SUBMITTAL. COORDINATE CANOPY LAYOUT WITH EXISTING CONDITIONS.
D. DIMENSIONS SHOWN WITH VIF (VERIFY IN FIELD) ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCING WORK.
E. CONTRACTOR SHALL NOT SCALE DRAWINGS

KEYNOTES

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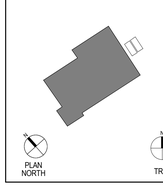
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KEY PLAN



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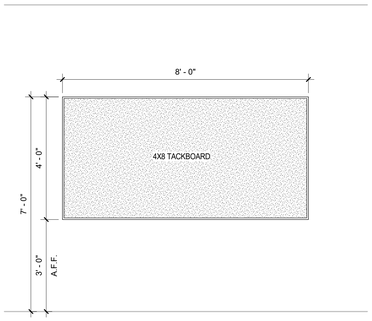
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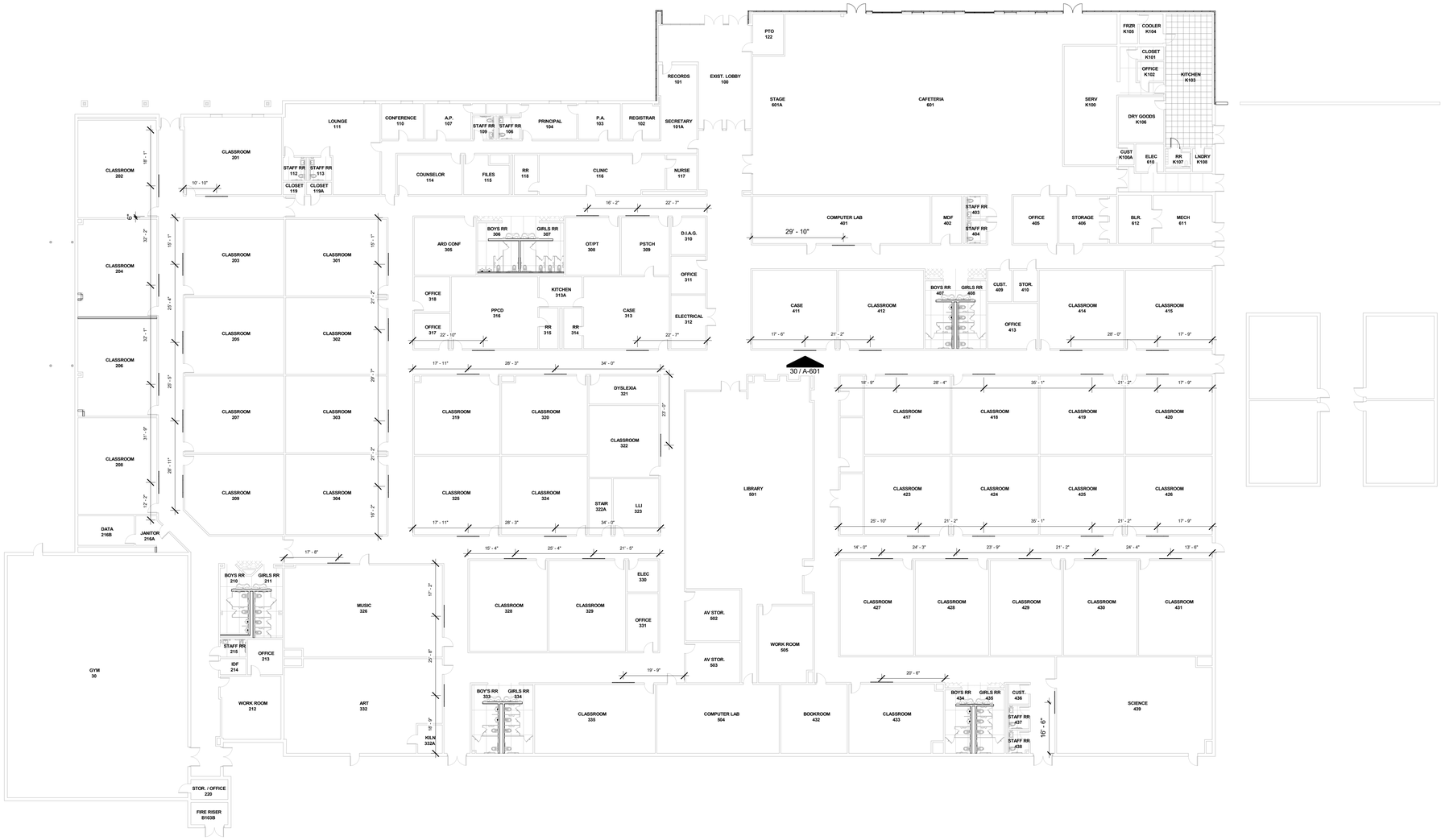
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ELEVATIONS, SECTIONS AND DETAILS - CANOPY

A-504



30 TYPICAL TACKBOARD ELEVATION
1/2" = 1'-0"



06 COMPOSITE FLOOR PLAN - TACKBOARD LOCATIONS
1/16" = 1'-0"

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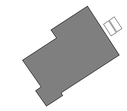
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INTERIOR ELEVATION TACKBOARDS

A-601

ROOF TYPES

A. INSTALL COATING OVER EXISTING ROLLED METAL ROOF - REFER TO SPEC SECTION 075501 ACRYLIC COATING ON METAL.
B. INSTALL COATING OVER EXISTING STANDING SEAM METAL ROOF - REFER TO SPEC SECTION 075501 ACRYLIC COATING ON METAL.
C. EXISTING MODIFIED BITUMEN WITH BALLASTS ROOF - RE-ROOF PER SPEC SECTION 075219 TWO PLY COOL ROOF MODIFIED BITUMEN ROOF SYSTEM.
D. EXISTING SINGLE PLY (PTO) ROOF - RE-ROOF PER SPEC SECTION 075400 FULLY ADHERED TPO MEMBRANE.
E. NEW ALUMINUM CANOPY

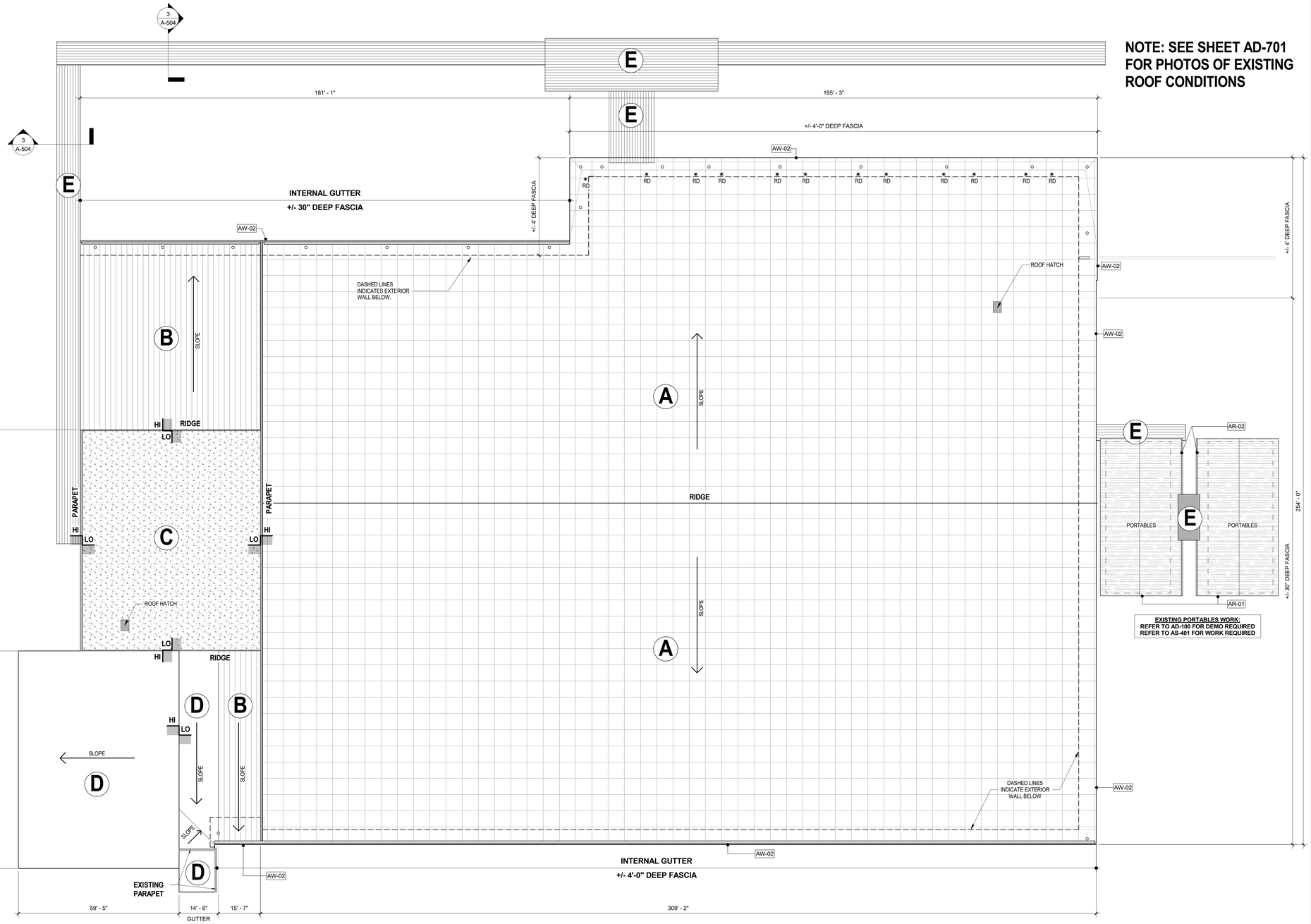
GENERAL ROOF NOTES

1. CONTRACTOR SHALL VERIFY EXISTING ROOF AND BUILDING CONDITIONS PRIOR TO BIDDING, DEMOLITION AND WORK.
2. DIMENSIONS SHOWN ARE APPROXIMATED FROM OWNER PROVIDED AS-BUILTS. GC TO FIELD VERIFY.
3. CONTRACTOR SHALL VERIFY ALL EXISTING ROOF FLASHING, DRAINS, GUTTERS, DOWNSPOUTS, ROOF PENETRATIONS, EQUIPMENT, LADDERS, HATCHES, ACCESSORIES AND MISC. ROOF MOUNTED ITEMS TO DETERMINE EXTENT OF WORK REQUIRED PRIOR TO BIDDING AND CONSTRUCTION.
4. EXISTING ROOF TOP EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL SECURE AND PROTECT THE EXISTING AREAS, CONTENTS THAT REMAIN. ALL DAMAGE RESULTING FROM WORK IN THIS CONTRACT SHALL BE RETURNED TO ITS ORIGINAL STATE. CAREFULLY DISMANTLE AND REMOVE MATERIAL AS REQUIRED FOR ROOF REPAIR AMD REPLACEMENT. NOTIFY ARCHITECT PRIOR TO ANY DEMOLITION WORK THAT MAY DAMAGE THE INTEGRITY OF ANY MATERIAL TO REMAIN.
6. PROVIDE TEMPORARY WEATHER PROTECTION DURING INTERVALBETWEEN INSTALLATION OF NEW CONSTRUCTION SO AS TO ENSURE NO WATER LEAKAGE OR DAMAGE OCCURS TO THE STRUCTURE OR INTERIOR AREAS OF THE EXISTING BUILDING.
7. CONTRACTOR SHALL NOT USE ANY PART OF EXISTING ROOF AS LAYDOWN AREA FOR CONSTRUCTION. PROTECT EXISTING ROOF DRAINS FROM BEING BLOCKED BY FOREIGN OBJECTS BEFORE, DURING AND AFTER CONSTRUCTION. DO NOT ALLOW DEBRIS TO ENTER ROOF DRAINS AND GUTTERS SYSTEMS. VERIFY UNRESTRICTED DRAINAGE AT THE END OF EACH DAY.
8. REFER TO ROOFING SPECIFICATIONS FOR DEMO OR PREPARATION INSTRUCTION OF EXISTING ROOFS.
9. INSTALL NEW ROOFING SYSTEM AND COMPONENTS IN STRICT ACCORDANCE WITH ROOFING MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.
10. CONTRACTOR SHALL ENSURE ALL ROOF DRAINS ARE FREE FLOWING BEFORE AND AFTER ROOF WORK.

KEYNOTES

AR-01	AT EXISTING PORTABLE ROOF PERIMETER, CHANGE OUT ALL METAL COVERED WOOD FASCIA & METAL EDGE FLASHING WITH NEW. COLOR TO MATCH EXISTING PORTABLES (BRONZE COLOR)
AR-02	AT EXISTING PORTABLE ROOF EAVES OVER DOORS, ADD NEW PRE-FINISHED METAL GUTTERS & DOWNSPOUTS (ON EACH END) - 5 X 5 GUTTER WITH 4 X 4 DOWNSPOUTS EA. END - COLOR TO MATCH EXISTING (BRONZE COLOR)
AW-02	EXISTING PLASTER FASCIA TO REMAIN TYPICAL. CLEAN, PREP AND PAINT AS SCHEDULED

NOTE: SEE SHEET AD-701 FOR PHOTOS OF EXISTING ROOF CONDITIONS



EXISTING PORTABLES WORK:
REFER TO AD-100 FOR DEMO REQUIRED
REFER TO AS-401 FOR WORK REQUIRED

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

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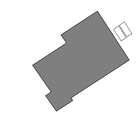
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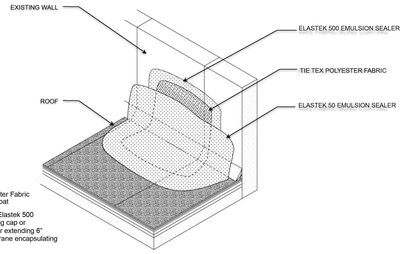
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NO.	DESCRIPTION	DATE

ROOF PLAN

A-701

FLAT ROOF: THREE COURSE FABRIC REINFORCED



1. Apply a 40" – 44" wide layer of Elastek 500 Emulsion coat
2. Embed 36" – 40" Tie Tex Polyester Fabric into wet Elastek 500 emulsion coat
3. Apply a 40" – 44" wide layer of Elastek 500 Emulsion coating from the coping cap or counter flashing down the corner extending 6" out onto the existing roof membrane encapsulating polyester fabric.

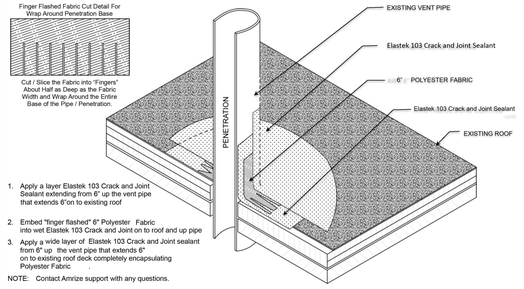
NOTE: Contact Amrize Support with any questions.

ROOF TO WALL TRANSITION
See specific application guideline for suitable Elastek full fabric/emulsion system.

LEGEND: EMULSION COATING, POLYESTER FABRIC

1 - TYPICAL ACRYLIC EMULSION OVERLAY

FLAT ROOF: THREE COURSE FABRIC REINFORCED



1. Apply a layer Elastek 103 Crack and Joint Sealant extending from 6" up the vent pipe that extends 6"on to existing roof
2. Embed "finger flashed" 6" Polyester Fabric into wet Elastek 103 Crack and Joint on to roof and up pipe
3. Apply a wide layer of Elastek 103 Crack and Joint sealant from 6" up the vent pipe that extends 6" on to existing roof deck completely encapsulating Polyester Fabric

NOTE: Contact Amrize support with any questions.

VENT PIPE RESTORATION DETAIL

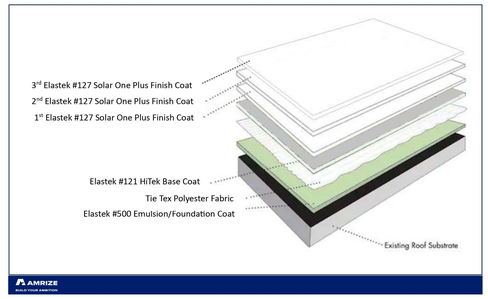
LEGEND: SEALANT COATING, POLYESTER FABRIC

2 - TYPICAL ACRYLIC EMULSION OVERLAY

E-las-tek® CERTIFIED COOL ROOF COATINGS

ER SYSTEMS ELASTOMERIC ROOFING

Emulsion 20 Year



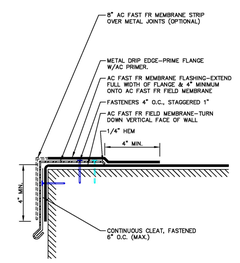
3 - TYPICAL ACRYLIC EMULSION OVERLAY

ELEVATE

DRIP EDGE FLASHING

MATERIAL: AC FAST FR	ACCEPTABLE SYSTEMS: WATERPROOFING	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	6/28/2023

DETAIL NO. ACF-E-03 — NOT TO SCALE



NOTE:
1. REFER TO HOLCIM ELEVATE WEBSITE FOR MOST CURRENT INFORMATION.
2. AC PRIMER AND AC FAST FR ARE FOR USE ON MODIFIED BITUMEN SYSTEMS ONLY. DO NOT USE ON TPO OR EPDM.
3. THE TERM "ELEVATE AC FAST FR MEMBRANE" REFERS TO THE COMPLETED AND PROPERLY INSTALLED MONOLITHIC MEMBRANE CONSISTING OF ELEVATE AC FAST FR AND AC FLEECE 120.

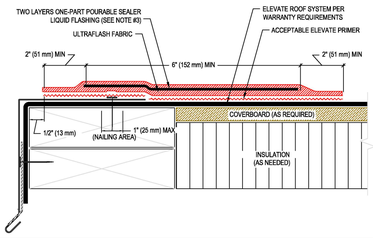
4 - TYPICAL TPO OVERLAY AT ROOF EDGE

ELEVATE

ONE-PART POURABLE SEALER AT DRIP EDGE

MATERIAL: ONE-PART POURABLE SEALER	ACCEPTABLE SYSTEMS: EPO, TPO, MOD-BIT	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	02/13/2023

DETAIL NO. PS-RE-1 — NOT TO SCALE



NOTES:
1. REFER TO ELEVATE WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY SINGLE-PLY QUICKPRIME TO ALL SINGLE PLY SURFACES. APPLY SA PRIMER TO ALL MOD BIT SURFACES.
3. APPLY LIQUID FLASHING WITH A MINIMUM BOTTOM AND TOP COAT OF 30 WET MILS EACH.
4. ALL SHEET METAL IS TO BE INSTALLED PER SMACNA GUIDELINES.
5. FULLY ENCAPSULATE FABRIC WITH LIQUID FLASHING. MASK LIQUID FLASHING PERIMETER EDGE TO MAINTAIN THICKNESS. DO NOT FEATHER EDGE OF LIQUID FLASHING.

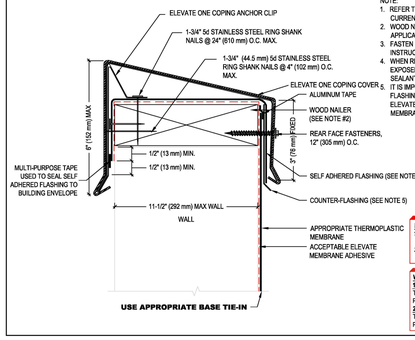
5 - TYPICAL TPO OVERLAY SEALER AT ROOF EDGE

ELEVATE

TERMINATION AT TOP OF WALL WITH ELEVATE ONE COPING OVER SELF ADHERED FLASHING

MATERIAL: TPO / PVC / PVC KEE / MAX PVC	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	10/11/2024

DETAIL NO. TPM-T-25A — NOT TO SCALE



NOTE:
1. REFER TO ELEVATE™ WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. FASTEN COPING CLEAT AS PER SUPPLIED INSTRUCTIONS.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO TPM-LS-14 FOR CUT EDGE SEALANT APPLICATION. IT IS IMPORTANT THAT THE SELF ADHERED FLASHING NOT MAKE CONTACT WITH THE ELEVATE PVC/PVC KEE OR ELEVATE MAX PVC MEMBRANE.

REPLACED DETAILS
UT-T-25A & PVC-T-25A

NOTE:
1. *DO NOT MIX ELEVATE PVC/PVC KEE AND ELEVATE MAX PVC MEMBRANE.*
2. *DO NOT MIX TPO AND PVC MEMBRANES.*

WARRANTY MEMBRANE REQUIREMENTS:
15-YEAR
TPO - 45 MIL
PVC, PVC KEE, MAX PVC - 50 MIL
20-YEAR
TPO - 60 MIL
PVC, PVC KEE, MAX PVC - 60 MIL

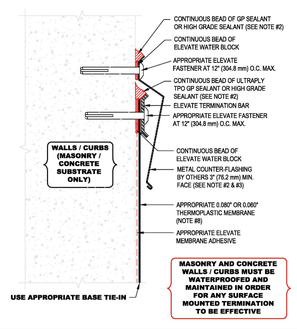
6 - TYPICAL TPO PARAPET COPING

ELEVATE

TERMINATION WITH SURFACE MOUNTED COUNTER-FLASHING AND TERMINATION BAR

MATERIAL: 80 MIL TPO / PVC / PVC KEE / MAX PVC	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 30 YEARS	10/10/2024

DETAIL NO. PTPM-T-06 — NOT TO SCALE



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTER-FLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE ELEVATE RED SHIELD™ WARRANTY.
3. METAL COUNTER-FLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL ELEVATE TERMINATION BAR WITH 1/4" (6 mm) GAP BETWEEN ADJOINING SECTIONS.
5. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNERS. **DO NOT BEND AROUND CORNERS.**
6. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25.4 mm) MAX. OF ALL SECTION ENDS. TERMINATION BAR SHOULD BE CUT AT ALL PRECAST MASONRY JOINTS AND ALLOW 1/4" (6.35 mm) GAP BETWEEN ENDS OF ADJOINING SECTIONS.
7. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.
8. REFER TO DETAIL PTPM-T-23 FOR WALL HEIGHT ATTACHMENT REQUIREMENTS.

REPLACED DETAILS
PUT-T-06 & PKE-T-06

NOTE:
1. *DO NOT MIX ELEVATE PVC/PVC KEE AND ELEVATE MAX PVC MEMBRANE.*
2. *DO NOT MIX TPO AND PVC MEMBRANES.*

WARRANTY MEMBRANE REQUIREMENTS:
25-YEAR
TPO - 60 MIL
PVC KEE, MAX PVC - 60 MIL
30-YEAR
TPO - 80 MIL
PVC KEE, MAX PVC - 80 MIL

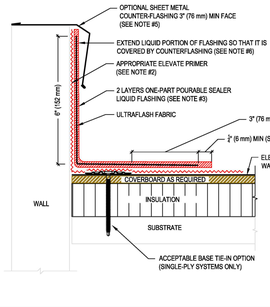
7 - TYPICAL TPO OVERLAY BASE FLASHING

ELEVATE

ONE-PART POURABLE SEALER LIQUID FLASHING AT WALL / CURB

MATERIAL: ONE-PART POURABLE SEALER	ACCEPTABLE SYSTEMS: EPDM, TPO, MOD-BIT	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	02/13/2023

DETAIL NO. PS-BT-1 — NOT TO SCALE



NOTE:
1. REFER TO ELEVATE WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY SINGLE-PLY QUICKPRIME TO ALL SINGLE PLY SURFACES. APPLY SA PRIMER TO ALL MOD BIT SURFACES.
3. APPLY LIQUID FLASHING WITH A MINIMUM BOTTOM COAT OF 30 MIL WET THICKNESS AND MINIMUM TOP COAT OF 30 MIL WET THICKNESS.
4. DETAIL (INCLUDING FABRIC) MUST EXTEND 3" (76 mm) MINIMUM BEYOND THE EDGE OF BASE TIE-IN ATTACHMENT.
5. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
6. FULLY ENCAPSULATE FABRIC WITH LIQUID FLASHING. MASK LIQUID FLASHING PERIMETER EDGE TO MAINTAIN THICKNESS. DO NOT FEATHER EDGE OF LIQUID FLASHING.

8 - TYPICAL TPO OVERLAY SEALER AT WALL / CURB BASE

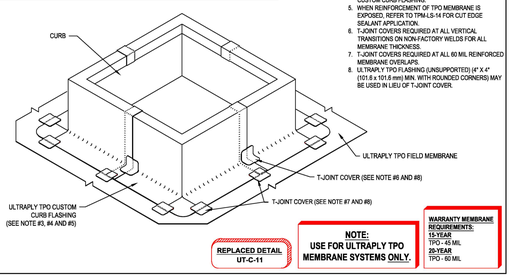
ELEVATE

CURB FLASHING WITH ULTRAPLY TPO CUSTOM CURB FLASHING

MATERIAL: ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	10/10/2024

DETAIL NO. TPM-C-11 — NOT TO SCALE

CUSTOM CURB FLASHING CONFIGURATIONS	
CLOSED - BEST FOR NEW CONSTRUCTION W/ CONSISTENT SIZED CURB	2 PIECES - BEST FOR CONSISTENT SIZED CURBS W/ EXISTING EQUIPMENT
1 PIECE - BEST FOR CONSISTENT SIZED CURBS W/ EXISTING EQUIPMENT	4 PIECES - BEST FOR VARIABLE SIZED CURBS FOR MAXIMUM ADJUSTMENT



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR MOST CURRENT INFORMATION.
2. ULTRAPLY TPO CUSTOM CURB FLASHING COMES IN CUSTOM SIZES TO FIT SPECIFIC CURB SIZES (SEE CHART TO LEFT).
3. REFER TO TPM-LS-01 AND TPM-LS-02 FOR WELD WIDTH.
4. BONDING ADHESIVE REQUIRED BETWEEN CURB AND CUSTOM CURB FLASHING.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO TPM-LS-14 FOR CUT EDGE SEALANT APPLICATION.
6. T-JOINT COVERS REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS FOR ALL MEMBRANE THICKNESS.
7. T-JOINT COVERS REQUIRED AT ALL 60 MIL REINFORCED MEMBRANE OVERLAPS.
8. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4" X 4" (101.6 x 101.6 mm) MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER.

REPLACED DETAIL
UT-C-11

NOTE:
USE FOR ULTRAPLY TPO MEMBRANE SYSTEMS ONLY.

WARRANTY MEMBRANE REQUIREMENTS:
15-YEAR
TPO - 45 MIL
20-YEAR
TPO - 60 MIL

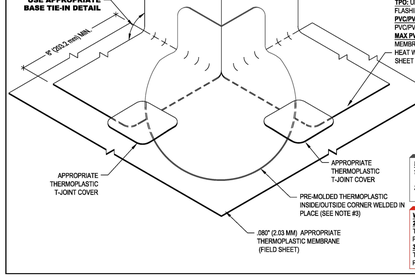
9 - TYPICAL TPO OVERLAY CURB FLASHING

ELEVATE

OUTSIDE CORNER

MATERIAL: 80 MIL TPO / PVC KEE / MAX PVC	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 30 YEARS	10/10/2024

DETAIL NO. PTPM-C-01 — NOT TO SCALE



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PTPM-LS-02 OR PTPM-LS-03 FOR WELD WIDTH.
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO TPM-LS-14 FOR CUT EDGE SEALANT APPLICATION.
4. SEE DETAIL PTPM-C-05 FOR INSIDE CORNER DETAIL.

TPO: ULTRAPLY TPO 18" (457.2 mm) CURB FLASHING OR MEMBRANE
PVC/PVC KEE: MIN. .060" (1.52 mm) ELEVATE PVC/PVC KEE MEMBRANE FLASHING
MAX PVC: .060" (1.52 MM) ELEVATE MAX PVC MEMBRANE FLASHING
HEAT WELDED TO PLATINUM TPO FIELD SHEET (SEE NOTE #2)

REPLACED DETAILS
PUT-C-01 & PKE-C-01

NOTE:
1. *DO NOT MIX ELEVATE PVC/PVC KEE AND ELEVATE MAX PVC MEMBRANE.*
2. *DO NOT MIX TPO AND PVC MEMBRANES.*

WARRANTY MEMBRANE REQUIREMENTS:
25-YEAR
TPO - 60 MIL
PVC KEE, MAX PVC - 60 MIL
30-YEAR
TPO - 80 MIL
PVC KEE, MAX PVC - 80 MIL

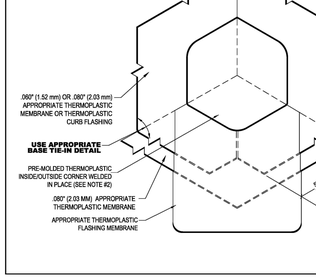
10 - TYPICAL TPO OUTSIDE CORNER BASE FLASHING

ELEVATE

INSIDE CORNER

MATERIAL: 80 MIL TPO / PVC / PVC KEE / MAX PVC	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 30 YEARS	10/10/2024

DETAIL NO. PTPM-C-05 — NOT TO SCALE



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PTPM-LS-02 OR PTPM-LS-03 FOR WELD WIDTH.
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO TPM-LS-14 FOR CUT EDGE SEALANT APPLICATION.
4. SEE DETAIL PTPM-C-01 FOR OUTSIDE CORNER DETAIL.

REPLACED DETAILS
PUT-C-05 & PKE-C-02

NOTE:
1. *DO NOT MIX ELEVATE PVC/PVC KEE AND ELEVATE MAX PVC MEMBRANE.*
2. *DO NOT MIX TPO AND PVC MEMBRANES.*

WARRANTY MEMBRANE REQUIREMENTS:
25-YEAR
TPO - 60 MIL
PVC KEE, MAX PVC - 60 MIL
30-YEAR
TPO - 80 MIL
PVC KEE, MAX PVC - 80 MIL

11 - TYPICAL TPO OVERLAY INSIDE CORNER BASE FLASHING

ELEVATE

SINGLE PENETRATION WITH ULTRAPLY TPO FLASHING

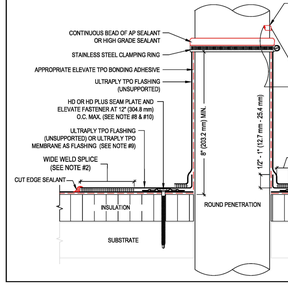
MATERIAL: PLATINUM ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 30 YEARS	10/10/2024

DETAIL NO. PTPM-P-04 — NOT TO SCALE

WARRANTY MEMBRANE REQUIREMENTS:
25-YEAR
TPO - 60 MIL
30-YEAR
TPO - 80 MIL

NOTE:
USE FOR ULTRAPLY TPO MEMBRANE SYSTEMS ONLY.

REPLACED DETAILS
PUT-P-04



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL PTPM-LS-01 OR PTPM-LS-02 FOR WELD WIDTH.
3. REMOVE ALL EXISTING FLASHING, LEAD, ETC.PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
4. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
5. NO WRINKLES, FOLDS OR SECONDARY PENETRATIONS UNDER CLAMPING RING.
6. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 °F (71 °C).
7. APPROPRIATE ELEVATE TPO BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR ADHERED SYSTEMS.
8. ELEVATE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY.
9. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO PTPM-LS-08 FOR CUT EDGE SEALANT APPLICATION.
10. PENETRATIONS EXCEEDING 12" (304.8 mm) IN DIAMETER REQUIRE ADDITIONAL BASE ATTACHMENT FOR ALL SYSTEMS.

12 - TYPICAL TPO OVERLAY PENETRATION FLASHING

ELEVATE

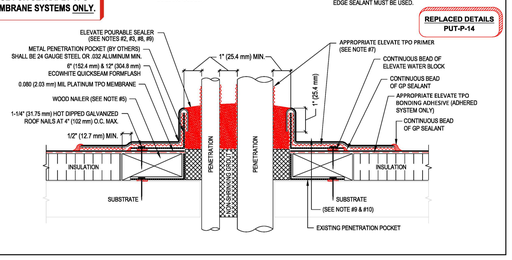
SINGLE OR MULTIPLE PENETRATION WITH METAL PENETRATION POCKET TO NAILER FOR RE-COVER OR RE-ROOF

MATERIAL: PLATINUM ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 30 YEARS	10/10/2024

DETAIL NO. PTPM-P-14 — NOT TO SCALE

WARRANTY MEMBRANE REQUIREMENTS:
25-YEAR
TPO - 60 MIL
30-YEAR
TPO - 80 MIL

NOTE:
USE FOR ULTRAPLY TPO MEMBRANE SYSTEMS ONLY.



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. ELEVATE POURABLE SEALER MOUNDED TO SHED WATER (MINIMUM DEPTH OF 2" (50.8 mm), REMAINDER OF POCKET MAY BE FILLED WITH A NON - SHRINKING GROUT).
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
6. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 °F (71 °C).
7. APPROPRIATE ELEVATE TPO PRIMER REQUIRED ON CLEAN & DRY PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET PRIOR TO POURABLE SEALER INSTALLATION.
8. PENETRATIONS MUST BE ANCHORED / SUPPORTED TO ENSURE STABILITY.
9. DETAIL CORNERS WITH ECOWHITE I/O CORNERS
10. INCLUDE AT LEAST TWO ECOWHITE QUICK SEAM FORMFLASH WRAPS AT 90° VERTICAL RISE AND CORNERS OF PENETRATION POCKET.
11. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED CUT EDGE SEALANT MUST BE USED.

REPLACED DETAILS
PUT-P-14

13 - TYPICAL TPO OVERLAY PENETRATION POCKET FLASH

ELEVATE

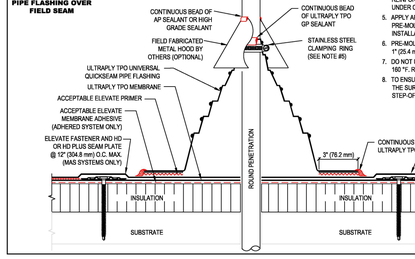
PENETRATION WITH ULTRAPLY TPO UNIVERSAL QUICKSEAM PIPE FLASHING

MATERIAL: ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	07/31/2023

DETAIL NO. TPM-P-17 — NOT TO SCALE

WARRANTY MEMBRANE REQUIREMENTS:
15-YEAR
TPO - 45 MIL
20-YEAR
TPO - 60 MIL

NOTE:
USE FOR ULTRAPLY TPO MEMBRANE SYSTEMS ONLY.



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOLDED QUICKSEAM PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
5. APPLY AP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
6. PRE-MOLDED PIPE FLASHING FITS 1" (25.4 mm) - 8" (150.4 mm) PENETRATIONS SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 °F. REFER TO TPM- PUB & TPMA-P-07.
8. TO ENSURE FORMABILITY, SLIGHTLY HEAT-FORM THE SURFACE OF TPO QUICKSEAM PRODUCTS AT STEP-OFFS AND ANGLE CHANGES.

REPLACED DETAIL
UT-P-17

14 - TYPICAL TPO OVERLAY PIPE FLASHING

ELEVATE

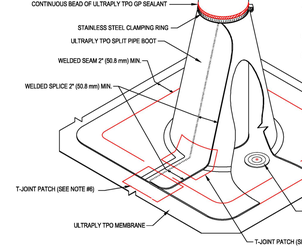
ROUND PENETRATION WITH ULTRAPLY TPO SPLIT PIPE BOOT

MATERIAL: TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE:
(800) 428-4511 www.holcimelevate.com	MAXIMUM WARRANTY: 20 YEARS	07/31/2023

DETAIL NO. TPM-P-21 — NOT TO SCALE

SIZE TABLE		
SIZE	OUTSIDE DIAMETER OF PIPE	STANTING HEIGHT
SMALL	1.0" to 3.0" (25.4 mm to 76.2 mm)	9.0" (228.6 mm)
MEDIUM	3.0" to 8.0" (76.2 mm to 139.7 mm)	8.5" (215.9 mm)
LARGE	5.5" to 8.0" (139.7 mm to 203.2 mm)	6.79" (222.25 mm)

REPLACED DETAIL
UT-P-21



NOTE:
1. REFER TO THE ELEVATE™ WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 °F. REFER TO TPM-P-05 & TPM-P-07.
6. T-JOINT PATCH OR ULTRAPLY TPO FLASHING (4" X 4" (101.6 mm X 101.6 mm) MIN) REQUIRED AT SEAM OVERLAP AND VERTICAL TRANSITION.
7. ELEVATE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS TPM-P-15 & TPM-P-16.
8. APPLY CUT EDGE SEALANT TO ANY EDGES WHERE SCRIM REINFORCEMENTS IS EXPOSED PER DETAIL TPM-LS-14.
9. HEIGHT OF TPO



1.1 WEST FRONT OF SCHOOL BUILDING



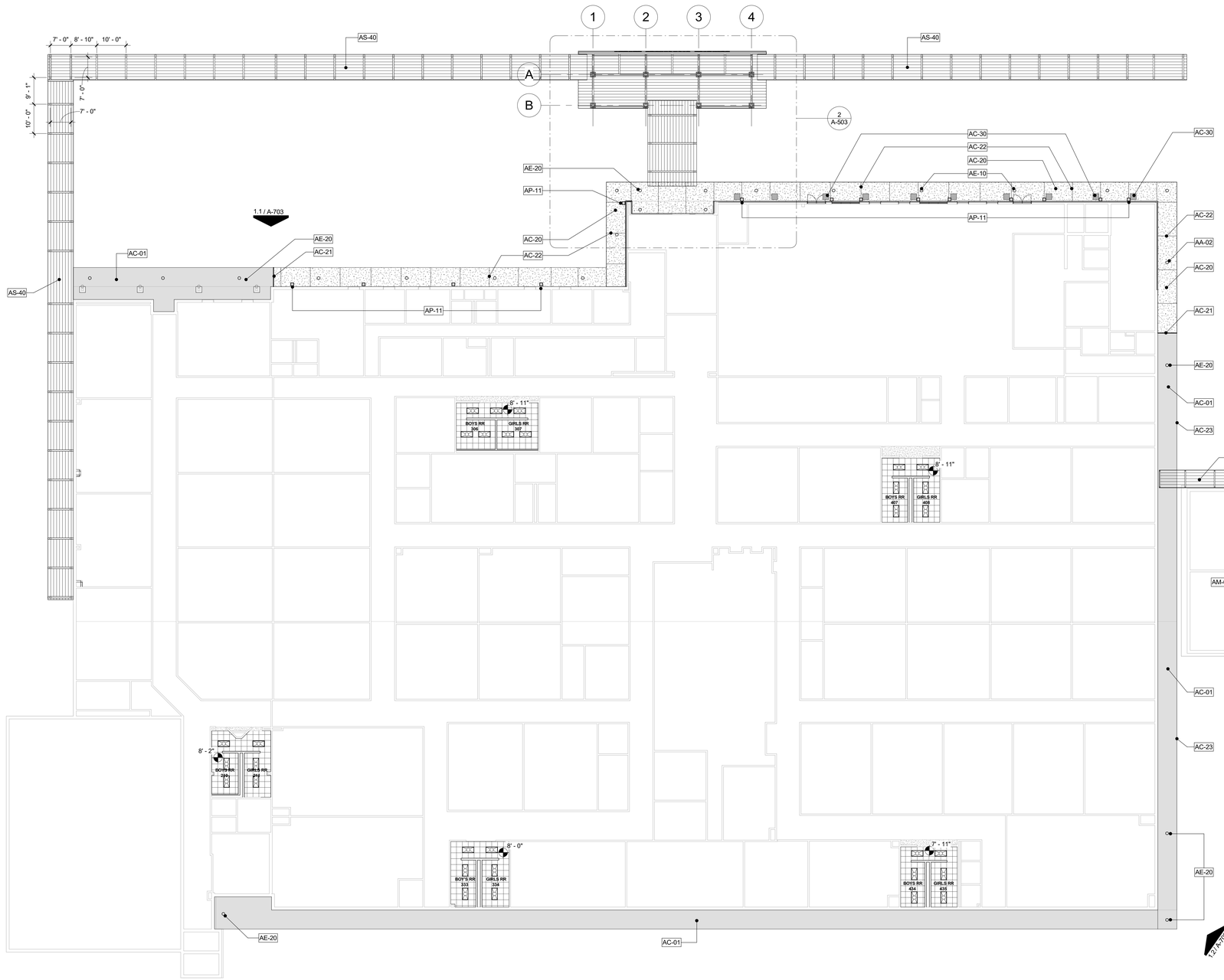
1.2 SOUTHEAST CORNER OF BUILDING AT PLAYGROUND LOOKING TOWARDS CHILLER YARD



1.3 NORTHEAST CORNER OF BUILDING AT KITCHEN SHOWING SOFFIT RENOVATION

1 RCP PHOTOS

1" = 1'-0"



06 LEVEL 01

1/16" = 1'-0"

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE FLOOR FINISH LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.

CEILING MATERIALS LEGEND

ACT - 2' x 4' ACOUSTIC PANEL
RE: FINISH SCHEDULE

2' X 4' RECESSED LIGHT FIXTURE - RE. ELECT.

KEYNOTES

AA-02	WINDOW RE: A4 SERIES
AC-01	EXISTING SOFFIT TO REMAIN TYPICAL. CLEAN, PREP AND PAINT AS SCHEDULED
AC-20	INSTALL NEW STUCCO SOFFIT, PAINT AS SCHEDULED. REFER TO DETAILS.
AC-21	REPAIR EDGE OF EXISTING SOFFIT TO REMAIN. INSTALL EXPANSION JOINT BETWEEN NEW AND EXISTING PLASTER SOFFIT
AC-22	PLASTER CONTROL JOINT TYP. ALIGN WITH EXISTING PLASTER FASCIA CONTROL JOINT.
AC-23	PREP, CLEAN, REPAIR, & PAINT FASCIA OF EXISTING ROOF FROM EDGE FLASHING DOWN TO SOFFIT
AC-30	REPLACE EXISTING ACCESS PANELS IN SOFFIT WITH NEW EXTERIOR 2' X 2' METAL CEILING ACCESS PANELS TYP. INSTALL NEW IN SOFFIT NEXT TO ALL NEW DOWNSPOUTS. ACCESS PANEL TO MATCH EXISTING UNLESS OTHERWISE SPECIFIED.
AE-10	NEW SOFFIT LIGHT FIXTURE TYPICAL. RE: ELEC
AE-20	REPLACE EXISTING SOFFIT LIGHTING, IN PLACE, AROUND PERIMETER OF BUILDING - RE: ELEC. FOR QUANTITY & LOCATIONS
AM-01	EXISTING PORTABLES.
AP-11	NEW HEAVY GAUGE METAL DRAIN LEADER - NEW 6" ROUND PRE-FINISHED METAL DOWNSPOUT WITH A NEOPRENE BOOT CONNECTION. CONNECT DOWNSPOUT TO SUBSURFACE DRAINAGE SYSTEM SHOWN ON CIVIL DRAWINGS.
AS-40	NEW ALUMINUM WALKWAY CANOPY - RE: SHEET A-201. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AS-41	NEW CANTILEVER ALUMINUM WALKWAY CANOPY AT PORTABLES - RE: SHEET AS-401. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL
AS-42	NEW ALUMINUM WALKWAY CANOPY AT PORTABLES - RE: SHEET AS-401. FOR UNDER CANOPY DECK LIGHTING - RE: ELECTRICAL

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

Coleman Partners ARCHITECTS
cparch.com

OWNER
SPRING ISD
T. 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T. 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T. 225-367-4414

CIVIL & LANDSCAPING
BROOKS & SPARKS
T. 281-578-3595

STRUCTURAL
DALLY + ASSOCIATES
T. 713-337-8881

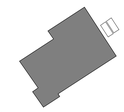
MEP
SALAS O'BRIEN
T. 281-664-1900

spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3910 Gladeridge Dr, Houston, TX 77068

KEY PLAN



REGISTERED ARCHITECT
WENDY H. LEE
22139
STATE OF TEXAS

10.22.2025

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	ISSUE FOR PROPOSALS

REVISIONS

NO.	DESCRIPTION	DATE

RCP

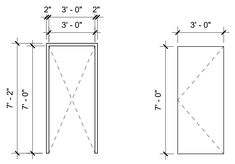
A-703

ROOM FINISH SCHEDULE

NUM.	NAME	FLOOR FINISH	WALLS					CEILINGS		COMMENTS
			BASE	NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
106	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	NO SCOPE		
109	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	NO SCOPE		
112	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	NO SCOPE		
113	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	NO SCOPE		
210	BOYS RR	PFT-1	PB-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	ACT-1	8' - 2"	
211	GIRLS RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	ACT-1	8' - 2"	
215	STAFF RR	PFT-1	PB-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	PWT-1	NO SCOPE		
306	BOYS RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	ACT-1	8' - 11"	
307	GIRLS RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	ACT-1	8' - 11"	
333	BOYS RR	PFT-1	PB-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	ACT-1	8' - 0"	
334	GIRLS RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	ACT-1	8' - 0"	
403	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	NO SCOPE		
404	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	NO SCOPE		
407	BOYS RR	PFT-1	PB-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	ACT-1	8' - 11"	
408	GIRLS RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	ACT-1	8' - 11"	
434	BOYS RR	PFT-1	PB-1	PWT-1	PWT-1, PWT-2, PWT-3	PWT-1	PWT-1	ACT-1	7' - 11"	
435	GIRLS RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	ACT-1	7' - 11"	
437	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	NO SCOPE		
438	STAFF RR	PFT-1	PB-1	PWT-1	PWT-1	PWT-1	PWT-1, PWT-2, PWT-3	NO SCOPE		
614	CORRIDOR	PFT-1	RB-1	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE		
K101	CLOSET	PFT-1	RB-1	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE		
K102	OFFICE	PFT-1	RB-1	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE		
K103	KITCHEN	QFT-1	QB-1	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE		
K107	RR	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE	NO SCOPE		INSTALL GRAB BARS
K108	LNDRY		RB-1	NO WORK	NO WORK	NO WORK	NO WORK			

BASIS OF DESIGN-PRODUCT FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	STYLE	COLORS	SPECS	COMMENTS
01 FLOOR FINISH						
PFT-1	PORCELAIN FLOOR TILE	DALTILE	PORTFOLIO	DOVE GREY	COLOR CODE: PF04, THICKNESS: 5/16, SIZE 12X24, FINISH: MATTE	
QFT-1	QUARRY TILE	DALTILE	QUARRY TILE	ARID GREY OQ42	THICKNESS: 1/2", SIZE 6X6, FINISH: MATTE	
TG-2	TILE GROUT	LATICRETE		SILVER SHADOW		
WM-1	WALK OFF MAT	TARKETT	ASSERTIVE ACTION	CHROMIUM 26201		
02 BASE						
PB-1	PORCELAIN TRIM	DALTILE	PORTFOLIO BULLNOSE BASE	DOVE GREY	SIZE: 3X12, FINISH: MATTE	
QB-1	QUARRY TILE TRIM	DALTILE	QUARRY TILE ROUND TOP COVE	ARID GREY OQ42	SIZE: 5X6, FINISH: MATTE	
RB-1	4" RUBBER BASE	ROPPE	THERMOPLASTIC RUBBER WALL BASE COIL	SOMBER 671		
03 WALL FINISH						
PWT-1	WALL TILE	DALTILE	COLOR WHEEL LINEAR	ARCTIC WHITE	COLOR CODE: 0790, THICKNESS: 3/8, SIZE: 2X8, FINISH: MATTE	
PWT-2	WALL TILE	DALTILE	COLOR WHEEL LINEAR	CURRANT	COLOR CODE: SH77, THICKNESS: 3/8, SIZE: 2X8, FINISH: MATTE	
PWT-3	WALL TILE	DALTILE	COLOR WHEEL LINEAR	SEA BREEZE	COLOR CODE: 7174, THICKNESS: 3/8, SIZE: 2X8, FINISH: MATTE	
TG-1	TILE GROUT	LATICRETE	PERMACOLOR GROUT	BRILLIANT WHITE		
10 TOILET ACCESORIES						
TA-1	SOAP DISPENSER				OFCI	
TA-2	MIRROR	ULINE	STANDARD		MODEL: H-9523, SIZE: 18"X36"X3/4"	
TA-3	TOILET PAPER DISPENSER				OFCI	
TA-4	PAPER TOWEL DISPENSER				OFCI	
TA-5	GRAB BAR	ULINE		STAINLESS STEEL	MODEL: H-6484	
TA-7	SANITRAY NAPKIN DISPOSAL				OFCI	
11 TOILET PARTITIONS						
TP-1	TOILET PARTITION	ASI		GREY 9205	SOLID PLASTIC (HDPE)	STALLS TO BE FLOOR ANCHORED
UP-1	URINAL PARTITION	ASI		GREY 9205	SOLID PLASTIC (HDPE)	WALL MOUNTED
12 PLUMBING						
RS-1	RESTROOM SINKS	BRADLEY CO	EXPRESS MG SERIES 2-STATION	POLAR ICE	MODEL: MG-2	
RS-2	STAFF RESTROOM SINKS	BRADLEY CO	IMPERIAL WALL-MOUNT LAVATORY	ALPINE WHITE	MODEL: TL-18	
13 FLOOR FINISH						
FT-1	FLOOR TRANSITION	JOHNSONITE	SLT-24	GREY HAZE		



FRAME A PANEL A

DOOR SCHEDULE

MARK	PAIR/SING	DOOR PANEL				DOOR FRAME				COMMENTS
		ELEV.	SIZE W	SIZE H	MATL.	ELEV.	SIZE W	SIZE H	MATL.	
K107	SING	A	3' - 0"	7' - 0"	HM	A	3' - 4"	7' - 2"	HM	REUSE EXISTING DOOR PANEL IF ABLE

KITCHEN RR DOOR ELEVATIONS

1/4" = 1'-0"

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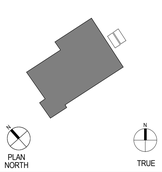
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SALAS O'BRIEN
T. 281-664-1900

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REYNOLDS ELEMENTARY
MAINTENANCE IMPROVEMENTS

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3975 Gladeridge Dr, Houston, TX 77068

KEY PLAN





10.22.2025

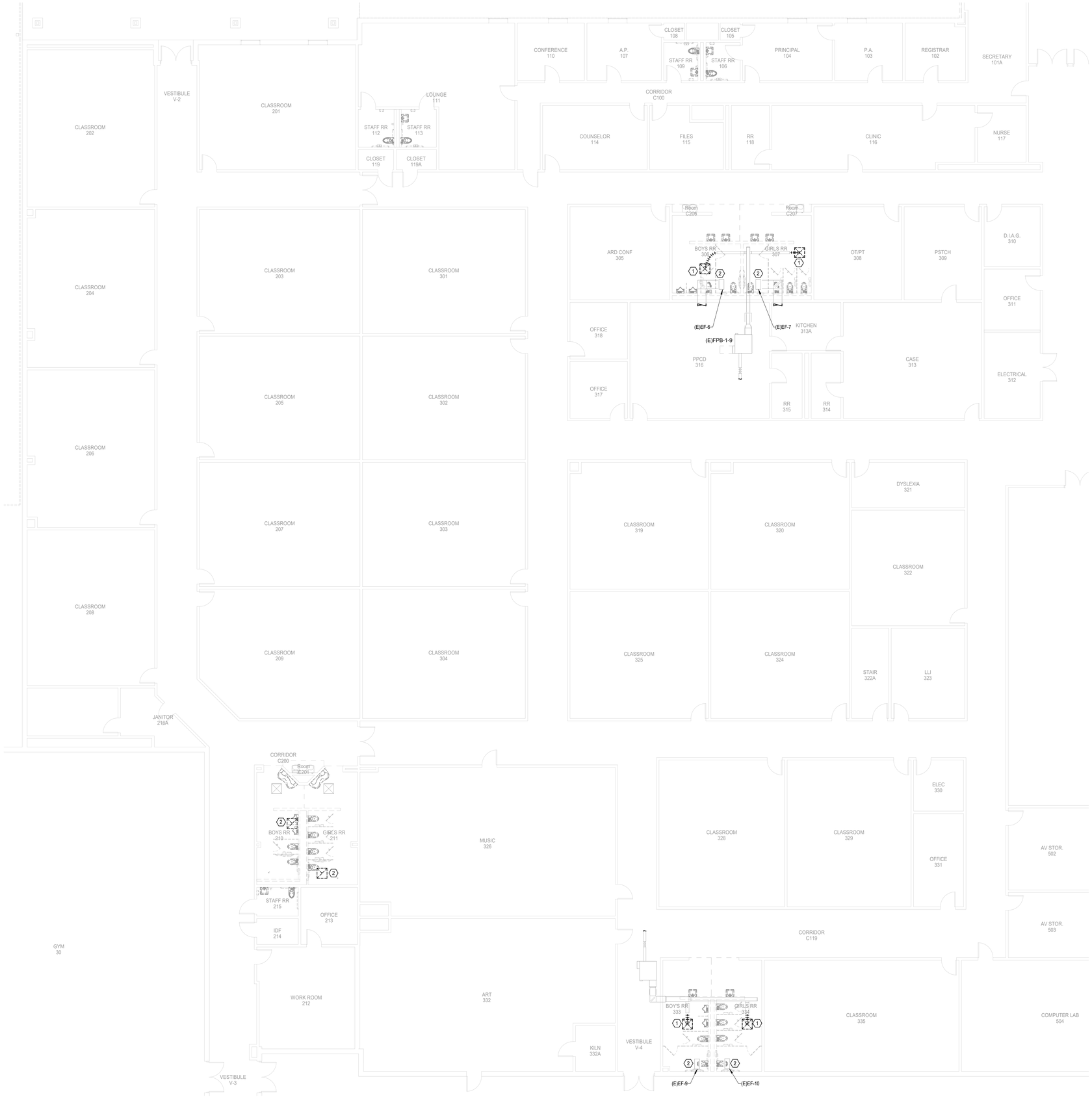
CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.22.2025	ISSUE FOR PROPOSALS

REVISIONS

NO.	DESCRIPTION	DATE

FINISH AND DOOR SCHEDULES

A-900



1 **MECHANICAL DEMOLITION PLAN - AREA A**
Scale: 1/8" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

1. 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.
2. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.
3. REMOVE ALL EXISTING SPACE MOUNTED TEMPERATURE AND HUMIDITY SENSORS NOT BEING REUSED. PROVIDE STAINLESS STEEL COVER PLATES.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL HVAC EQUIPMENT BEING REMOVED FROM THIS PROJECT.

MECHANICAL DEMOLITION KEYED NOTES

1. REMOVE EXISTING SUPPLY AIR GRILLE. SET ASIDE AND PROTECT DIFFUSER SO IT CAN BE REINSTALLED DURING NEW CONSTRUCTION. REFERENCE 1/M1.01.
2. REMOVE EXISTING EXHAUST AIR GRILLE ASSOCIATED WITH CEILING EXHAUST FAN. SET ASIDE AND PROTECT GRILLE SO IT CAN BE REINSTALLED DURING NEW CONSTRUCTION. REFERENCE 1/M1.01.

SYMBOL LEGEND	
RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭ (dashed)	ITEM TO BE REMOVED

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

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cparch.com

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SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
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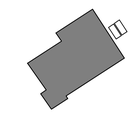
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T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3515 Galveston St, Houston, TX 77026

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

MECHANICAL DEMOLITION PLANS - AREA A

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

M0.01



1 **MECHANICAL DEMOLITION PLAN - AREA B**
Scale: 1/8" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

1. 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.
2. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.
3. REMOVE ALL EXISTING SPACE MOUNTED TEMPERATURE AND HUMIDITY SENSORS NOT BEING REUSED. PROVIDE STAINLESS STEEL COVER PLATES.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL HVAC EQUIPMENT BEING REMOVED FROM THIS PROJECT.

MECHANICAL DEMOLITION KEYED NOTES

(1) REMOVE EXISTING SUPPLY AIR GRILLE. SET ASIDE AND PROTECT DIFFUSER SO IT CAN BE REINSTALLED DURING NEW CONSTRUCTION. REFERENCE 1/M1.02.

(2) REMOVE EXISTING EXHAUST AIR GRILLE ASSOCIATED WITH CEILING EXHAUST FAN. SET ASIDE AND PROTECT GRILLE SO IT CAN BE REINSTALLED DURING NEW CONSTRUCTION. REFERENCE 1/M1.01.

SYMBOL LEGEND	
RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
▭	ITEM TO REMAIN
▭ (dashed)	ITEM TO BE REMOVED

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ARCHITECT
IN2 ARCHITECTURE
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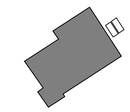
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SALAS O'BRIEN
T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3310 Glasbridge Dr, Houston, TX 77066

KEY PLAN





CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

MECHANICAL DEMOLITION PLANS - AREA B

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

M0.02



1 **MECHANICAL FLOOR PLAN - AREA A**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. 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 HVAC SYSTEMS.

MECHANICAL KEYED NOTES

1. CONNECT SUPPLY AIR DIFFUSER TO EXISTING DUCTWORK. ADD NEW FLEX/HARD DUCTWORK IF NEEDED TO FINAL CONNECTION. RE-INSULATE, PATCH, AND SEAL AIR TIGHT TO MATCH EXISTING.
2. CLEAN, TOUCH UP PAINT, AND RE-INSTALL EXISTING DIFFUSER/GRILLE.
3. CONNECT EXHAUST GRILLE TO EXISTING DUCTWORK/CEILING FAN. ADD NEW EXHAUST HARD DUCTWORK IF NEEDED TO FINAL CONNECTION. RE-INSULATE, PATCH, AND SEAL AIR TIGHT TO MATCH EXISTING.

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cparch.com

OWNER
SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
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COLEMAN PARTNERS ARCHITECTS
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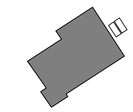
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SALAS O'BRIEN
T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3515 Galveston St, Houston, TX 77026

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
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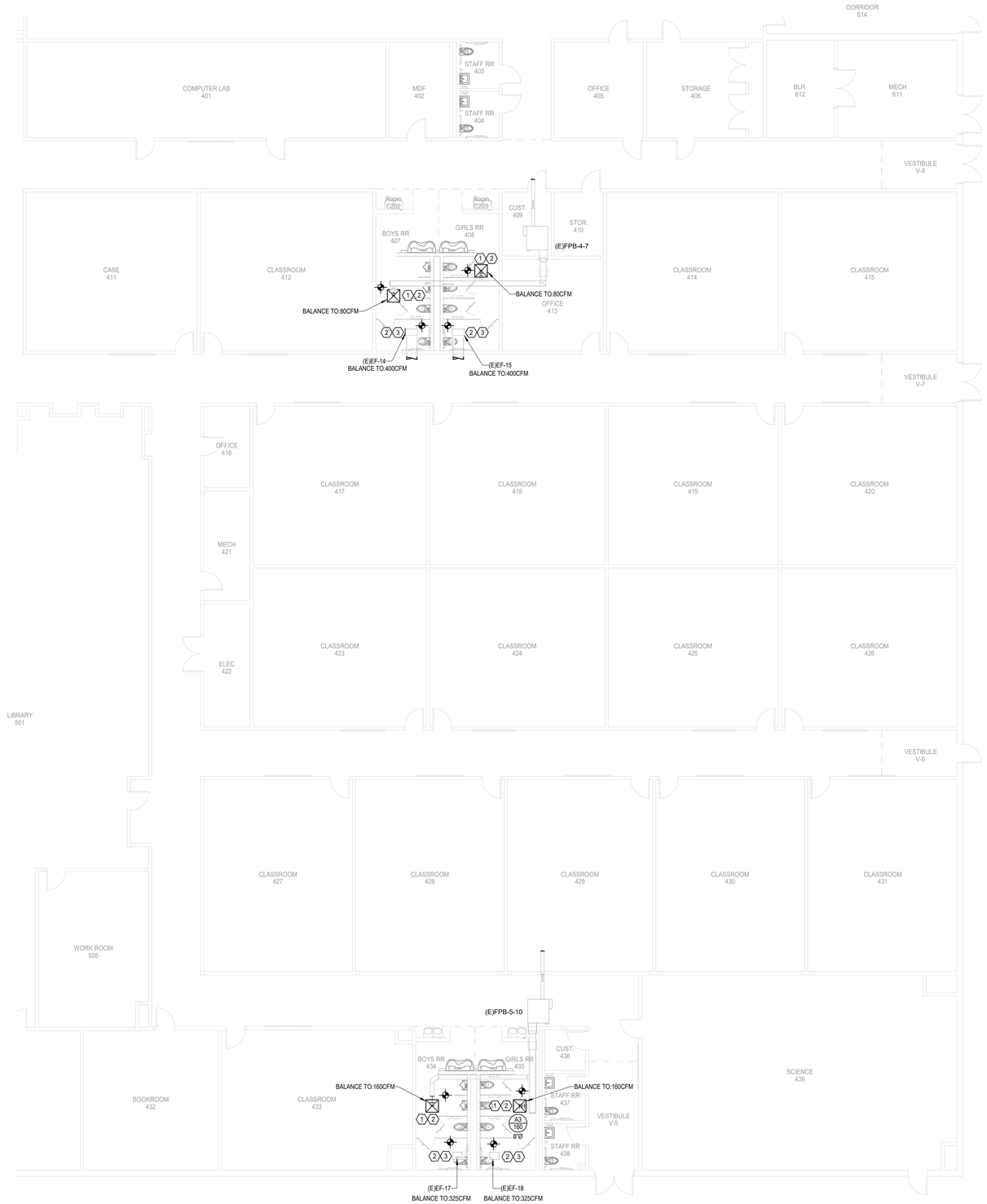
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NO.	DESCRIPTION	DATE

MECHANICAL PLANS - AREA A

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

M1.01



1 **MECHANICAL FLOOR PLAN - AREA B**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. 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 HVAC SYSTEMS.

MECHANICAL KEYED NOTES

1. CONNECT SUPPLY AIR DIFFUSER TO EXISTING DUCTWORK. ADD NEW FLEXHARD DUCTWORK IF NEEDED TO FINAL CONNECTION. RE-INSULATE, PATCH, AND SEAL AIR TIGHT TO MATCH EXISTING.
2. CLEAN, TOUCH UP PAINT, AND RE-INSTALL EXISTING DIFFUSER/GRILLE.
3. CONNECT EXHAUST GRILLE TO EXISTING DUCTWORK/CEILING FAN. ADD NEW EXHAUST HARD DUCTWORK IF NEEDED TO FINAL CONNECTION. RE-INSULATE, PATCH, AND SEAL AIR TIGHT TO MATCH EXISTING.

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T. 281-891-8156

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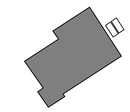
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3919 Glasenhigh Dr, Houston, TX 77066

KEY PLAN



BRADLEY KALMANS
STATE OF TEXAS
80210
LICENSED
PROFESSIONAL ENGINEER
10.24.25

CLIENT	IN2 PROJECT NUMBER
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DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

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MECHANICAL PLANS - AREA B

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

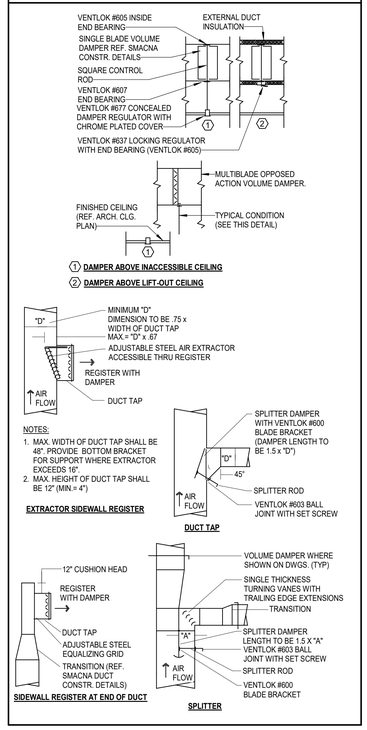
M1.02

DAMPER

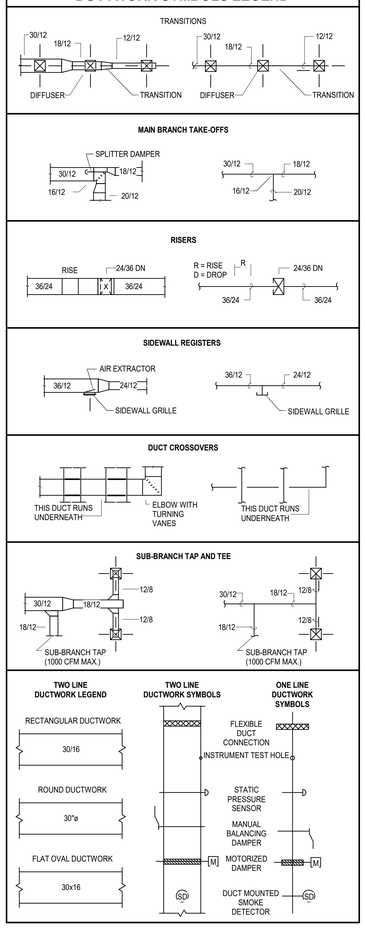
MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION 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

DUCTWORK CONSTRUCTION DETAILS

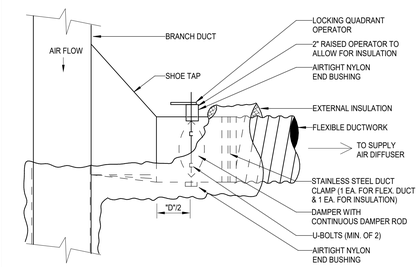


DUCTWORK SYMBOLS LEGEND

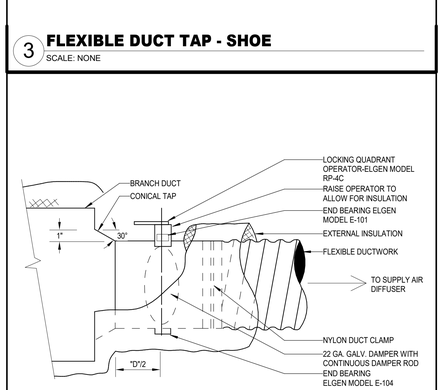


SYMBOL LEGEND

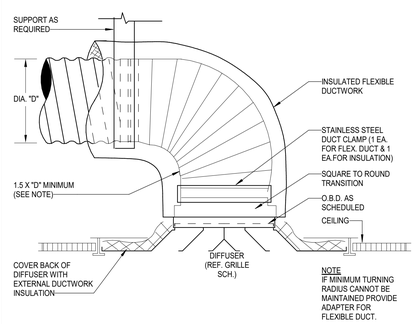
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
/#\	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
/S\	SMOKE DAMPER (VERTICAL)
S	SMOKE DAMPER (HORIZONTAL)
/FS\	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
SDI	SMOKE DETECTOR
HDI	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
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
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED



3 **FLEXIBLE DUCT TAP - SHOE**
SCALE: NONE



2 **FLEXIBLE DUCT TAP - CONICAL**
SCALE: NONE



1 **FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER**
SCALE: NONE

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
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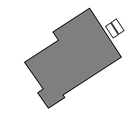
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3310 Glasbridge Dr, Houston, TX 77066

KEY PLAN



PLAN NORTH
TRUE



10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

MECHANICAL DETAILS AND SCHEDULES

M2.01

LINETYPE LEGEND	
————	EXISTING TO REMAIN
- - - - - - - - -	DISCONNECT AND REMOVE

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.

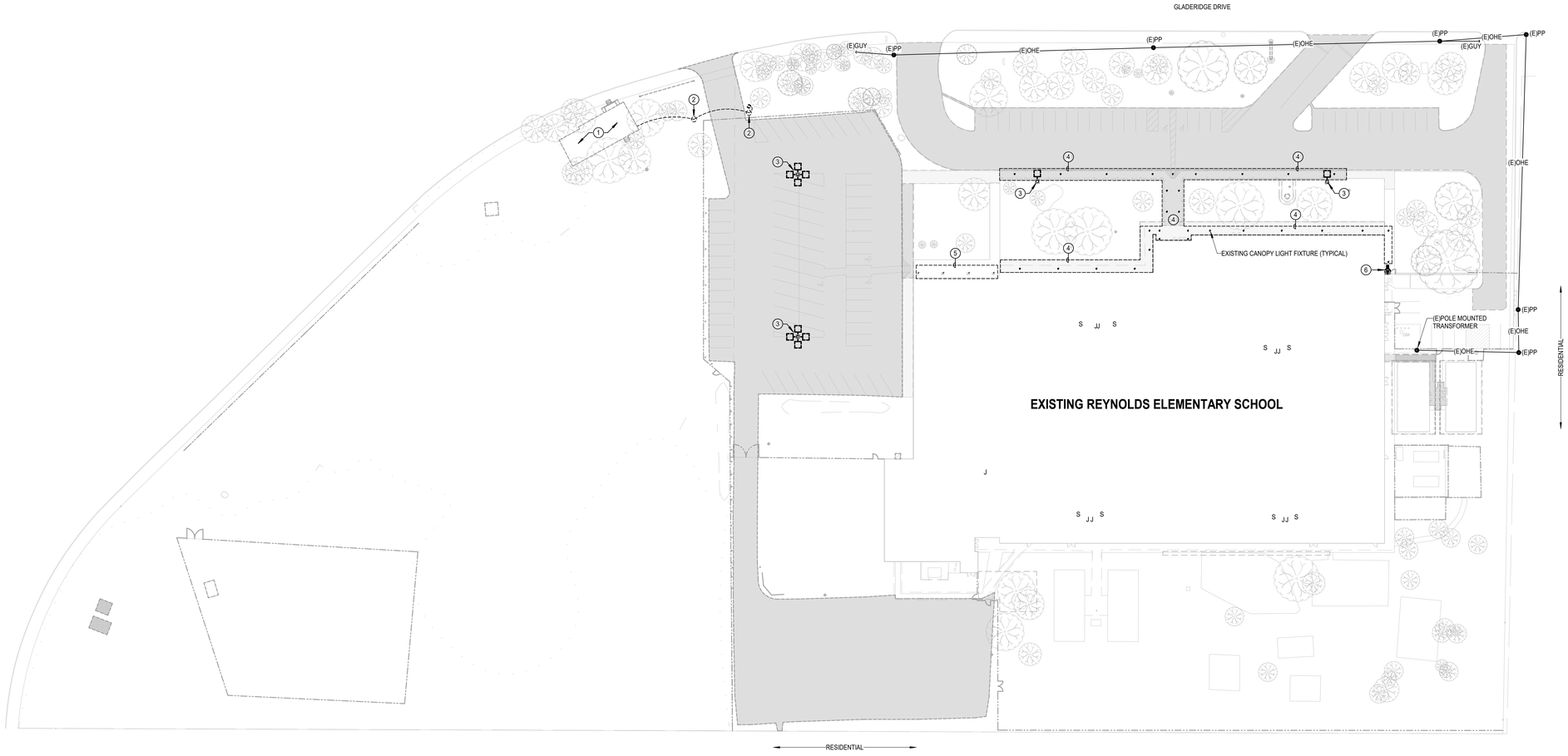
OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY AN OWNER REPRESENTATIVE PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS.

ELECTRICAL GENERAL NOTES:

1. DISCONNECT AND REMOVE ALL ABANDONED WIRING AND CONDUIT.
2. DISCONNECT AND REMOVE ALL CONDUIT, WIRE, AND DISCONNECTING MEANS ASSOCIATED WITH HVAC EQUIPMENT BEING REMOVED.
3. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CONTACTORS, DISCONNECTS, ETC...SHALL REMAIN.
4. DISCONNECT AND REMOVE ALL ELECTRICAL FROM WALLS SCHEDULED TO BE DEMOLISHED AND AS SHOWN. UNLESS INDICATED OTHERWISE, DISCONNECT BRANCH CIRCUIT BACK TO NEAREST JUNCTION BOX ABOVE CEILING SPACE FOR RE-USE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF WALL DEMOLITION.
5. 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.
6. CONTRACTOR TO FILL IN ALL HOLES LEFT BY THE DEMOLITION OF EXISTING CONDUIT PENETRATIONS.

ELECTRICAL KEYED NOTES:

1. DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH REMOVAL OF EXISTING BUILDING BACK TO SOURCE.
2. DISCONNECT AND REMOVE EXISTING POWER POLE AND ASSOCIATED TRI-PLEX OVERHEAD ELECTRICAL BACK TO SOURCE.
3. EXISTING POLE LOCATION. DISCONNECT AND REMOVE EXISTING LIGHT POLE AND FIXTURE AND RETURN TO OWNER. REMOVE EXISTING POLE BASE TO 8" BELOW FINISHED GRADE. REMOVE CONDUIT/WIRE BACK TO SOURCE.
4. DISCONNECT AND REMOVE EXISTING CANOPY LIGHTING AND ASSOCIATED CONDUIT/WIRE BACK TO SOURCE.
5. **ALTERNATE PRICING:** DISCONNECT AND REMOVE EXISTING CANOPY LIGHT AND REPLACE WITH NEW; LEAVE CIRCUITRY INTACT FOR RE-USE.
6. TEMPORARILY DISCONNECT AND REMOVE EXISTING 250V, 60A RECEPTACLE BACK TO NEAREST INDOOR JUNCTION BOX TO FACILITATE REMOVAL OF EXISTING BRICK/EXTERIOR WALL. LEAVE CIRCUITRY INTACT FOR RE-USE.



1 **ELECTRICAL DEMOLITION SITE PLAN**
Scale: 1" = 40'-0"

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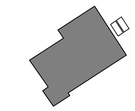
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T. 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3510 Gladeridge Dr, Houston, TX 77066

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.24.25

CLIENT	INZ PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL DEMOLITION SITE PLAN

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

E0.01

ELECTRICAL GENERAL NOTES:

1. CALL 811 PRIOR TO ANY DIGGING/TRENCHING.
2. REFER TO CIVIL DRAWINGS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3. CONTRACTOR TO COORDINATE FINAL LOCATION OF ALL CONDUITS AS PART OF DIVISION 26 WITH PLUMBING, TECHNOLOGY AND ALL OTHER TRADES.

SITE LIGHTING FIXTURE SCHEDULE

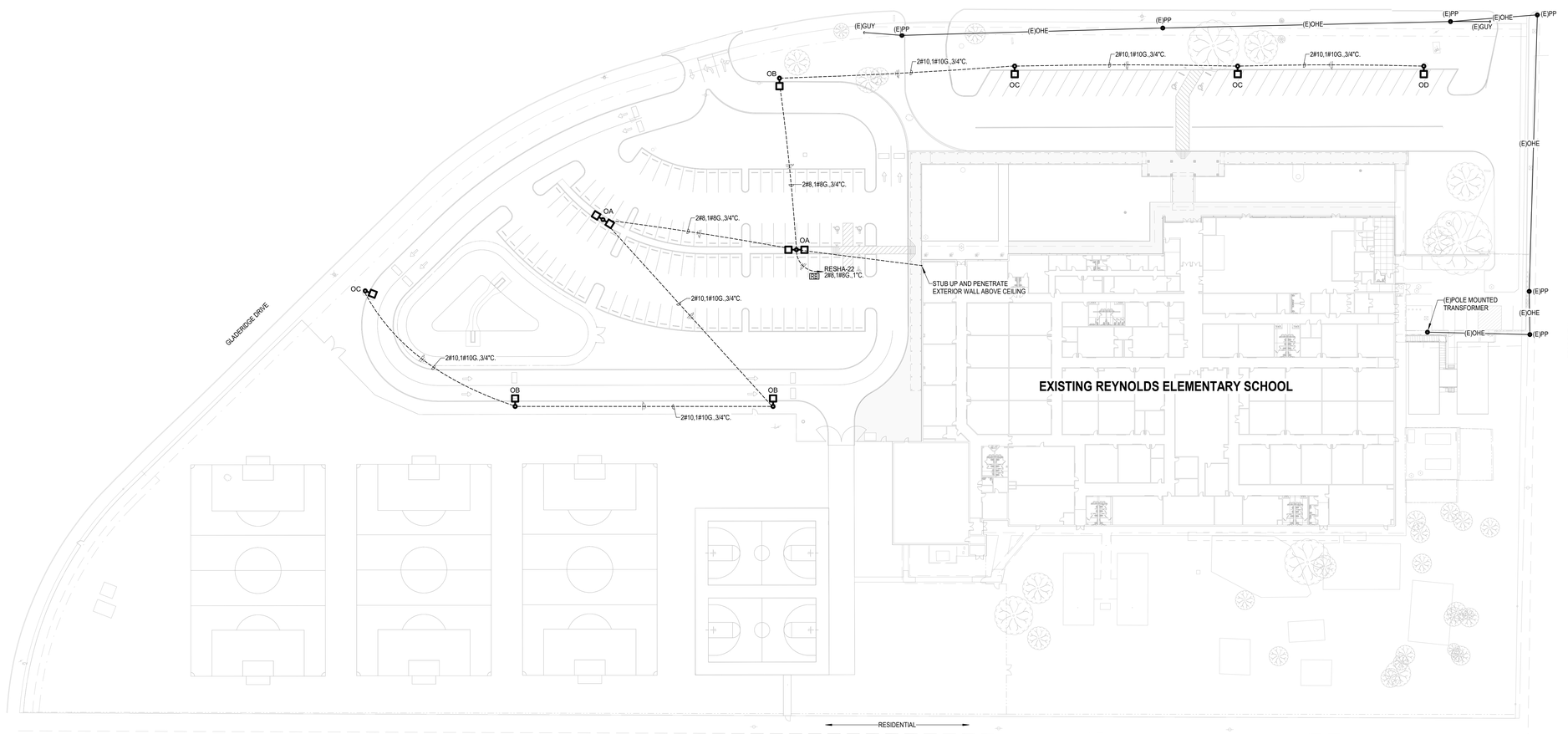
Type Mark	CATALOG NUMBER		MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
	MANUFACTURER	MODEL							
OA	MCGRAW EDISON	GALN-SA4D-840-U-5WQ-BZ-LCP-SP84/BZ	POLE MOUNT 2 @ 180	32,029L LED	4000 K	80	277	490 W	TYPE V WIDE AREA LUMINAIRE, DIMMING TO MAX 50% OUTPUT WITH MOTION SENSOR, AND BRONZE FINISH. MOUNT ON 30' POLE WITH BRONZE POWDER COAT. OVER GALVANIZING. POLE: KW #RTSP30-7.5-11-KZ13-DM2180-BC
OB	MCGRAW EDISON	GALN-SA4D-840-U-T2-BZ-LCP-SP84/BZ	POLE MOUNT 1 @ 90	30,777L LED	4000 K	80	277	245 W	TYPE II WIDE AREA LUMINAIRE, DIMMING TO MAX 50% OUTPUT WITH MOTION SENSOR, AND BRONZE FINISH. MOUNT ON 30' POLE WITH BRONZE POWDER COAT. OVER GALVANIZING. POLE: KW #RTSP30-7.5-11-KZ13-DM10-BC
OC	MCGRAW EDISON	GALN-SA4D-840-U-T4FT-BZ-LCP-SP84/BZ	POLE MOUNT 1 @ 90	30,535L LED	4000 K	80	277	245 W	TYPE IV FORWARD THROW AREA LUMINAIRE, DIMMING TO MAX 50% OUTPUT WITH MOTION SENSOR, AND BRONZE FINISH. MOUNT ON 30' POLE WITH BRONZE POWDER COAT. OVER GALVANIZING. POLE: KW #RTSP30-7.5-11-KZ13-DM10-BC
OD	MCGRAW EDISON	GALN-SA4D-840-U-T4W-BZ-LCP-SP84/BZ	POLE MOUNT 1 @ 90	30,625L LED	4000 K	80	277	245 W	TYPE IV WIDE AREA LUMINAIRE, DIMMING TO MAX 50% OUTPUT WITH MOTION SENSOR, AND BRONZE FINISH. MOUNT ON 30' POLE WITH BRONZE POWDER COAT. OVER GALVANIZING. POLE: KW #RTSP30-7.5-11-KZ13-DM10-BC

*** MOTION SENSOR FIXTURES SHALL DIM TO MAX OUTPUT OF 50% WHEN NO MOTION IS DETECTED; FIXTURE SHALL REMAIN AT 50% UNTIL MOTION IS DETECTED AND/OR BMCS CONTROLLED CONTACTOR TURNS OFF LIGHTS. (DO NOT DIM TO OFF)

APPROVED MANUFACTURERS:
ROUND POLE - VALMONT, KW
AREA LUMINAIRE - VISIONAIRE, LITHONIA, McGRAW EDISON, LSI, KIM, GARDCO

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 THE CONTRACTOR 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.



1 **ELECTRICAL SITE PLAN**
Scale: 1" = 40'-0"

Salas O'Brien
Houston
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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

IN2 ARCHITECTURE
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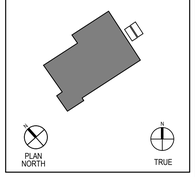
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spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3310 Gladeridge Dr, Houston, TX 77066

KEY PLAN





CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL SITE PLAN

E0.02

ELECTRICAL GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CONTACTORS, DISCONNECTS, ETC., SHALL REMAIN.
2. VERIFY ALL DEMOLITION AND NEW WORK WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

ELECTRICAL KEYED NOTES:

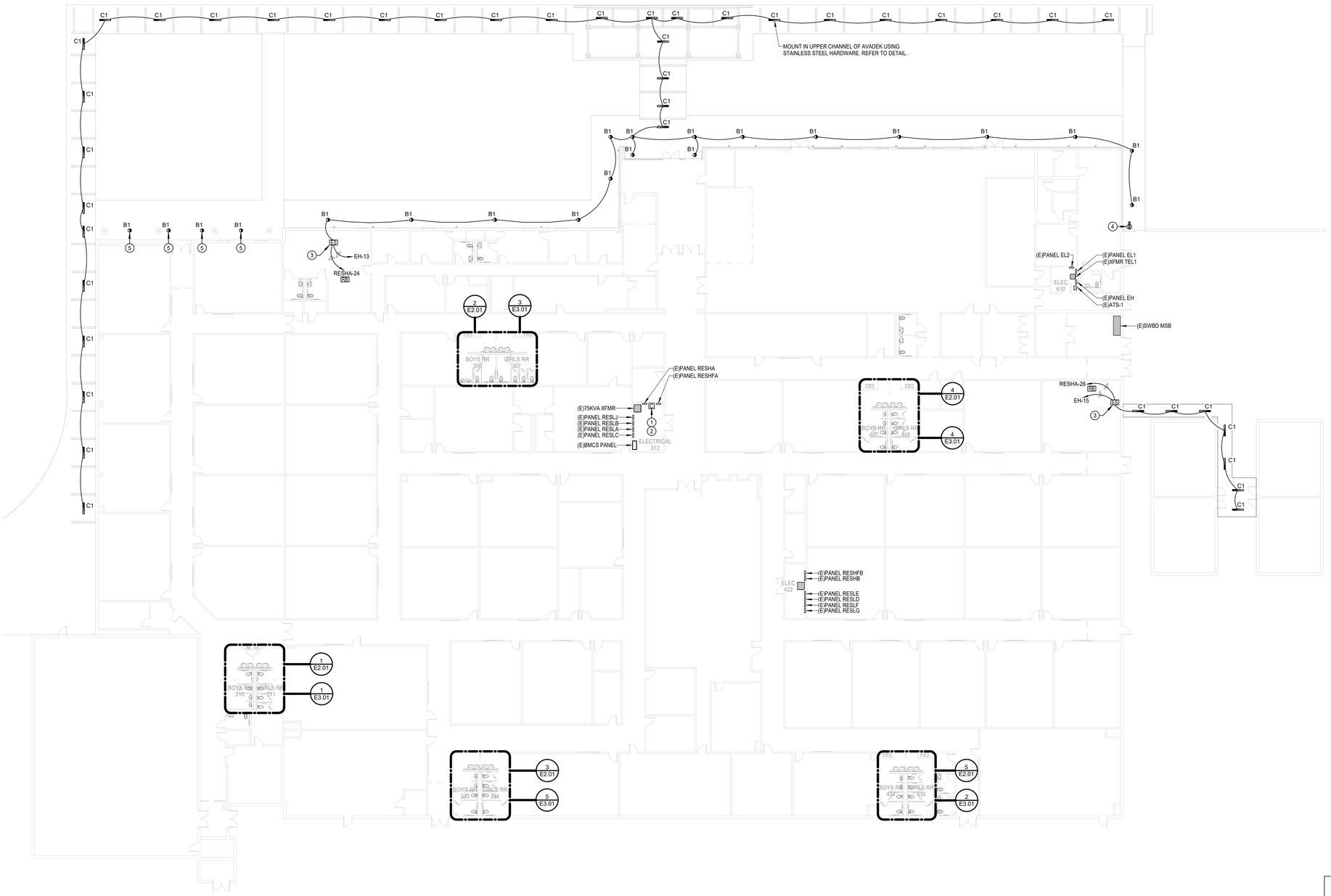
(1) DISCONNECT AND REMOVE EXISTING CONTACTOR AND REPLACE WITH NEW.

(2) PROVIDE NEW LIGHTING CONTACTORS 'C1' AND 'C2':
- C1 - CANOPY LIGHTS, ROUTE NEW CONTROLS TO EXISTING BMCS.
- C2 - PARKING LOT LIGHTS, ROUTE NEW CONTROLS TO EXISTING BMCS.

(3) PROVIDE NEW UL1008 EMERGENCY TRANSFER DEVICE FOR CANOPY EGRESS LIGHTING. LOCATE IN ELECTRICAL 312.

(4) RE-INSTALL EXISTING 250V, 60A RECEPTACLE ON BRICK WALL AND CONNECT TO EXISTING CIRCUITRY PRESERVED DURING DEMOLITION.

(5) **ALTERNATE PRICING:**
PROVIDE NEW LIGHT FIXTURE IN EXISTING LOCATION. CONNECT TO EXISTING CIRCUIT PRESERVED DURING DEMOLITION. RE-USE EXISTING BMCS CONTROLS.



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

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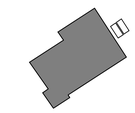
Salas O'Brien
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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3510 Glasbridge Dr, Houston, TX 77082

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
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ELECTRICAL COMPOSITE PLAN

E1.01

LINETYPE LEGEND	
————	EXISTING TO REMAIN
- - - - - - - - -	DISCONNECT AND REMOVE

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.

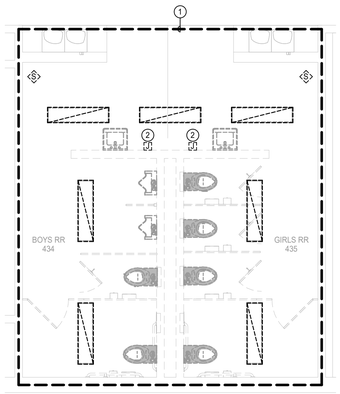
OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY AN OWNER REPRESENTATIVE PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS.

ELECTRICAL GENERAL NOTES:

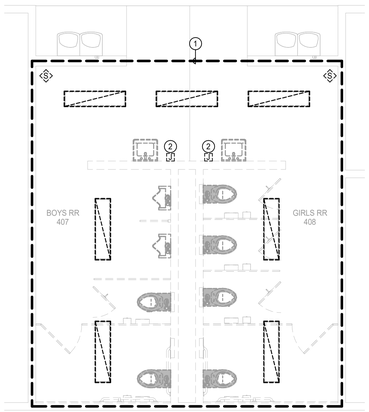
1. DISCONNECT AND REMOVE ALL ABANDONED WIRING AND CONDUIT.
2. DISCONNECT AND REMOVE ALL CONDUIT, WIRE, AND DISCONNECTING MEANS ASSOCIATED WITH HVAC EQUIPMENT BEING REMOVED.
3. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CONTACTORS, DISCONNECTS, ETC...SHALL REMAIN.
4. DISCONNECT AND REMOVE ALL ELECTRICAL FROM WALLS SCHEDULED TO BE DEMOLISHED AND AS SHOWN. UNLESS INDICATED OTHERWISE, DISCONNECT BRANCH CIRCUIT BACK TO NEAREST JUNCTION BOX ABOVE CEILING SPACE FOR RE-USE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF WALL DEMOLITION.
5. 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.
6. CONTRACTOR TO FILL IN ALL HOLES LEFT BY THE DEMOLITION OF EXISTING CONDUIT PENETRATIONS.

ELECTRICAL KEYED NOTES:

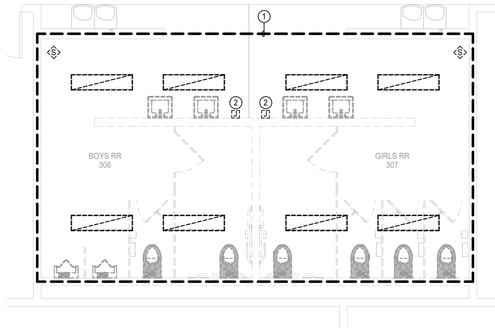
1. DISCONNECT AND REMOVE ALL LIGHTING AND ASSOCIATED CONDUIT/WIRE BACK TO NEAREST ACTIVE BOX ABOVE CEILING. LIGHTING INCLUDES BUT IS NOT LIMITED TO: LIGHTING FIXTURES, EXIT SIGNAGE, LIGHT SWITCHES, SWITCH-LEGS, LIGHTING CONTROLS/SENSORS, LIGHTING RELAYS, ETC. ALL EXISTING LIGHTING BRANCH CIRCUITS (NORMAL/EMERGENCY) SHALL REMAIN AND BE RE-USED; ALL EXISTING LIGHT SWITCH BOXES SHALL REMAIN AND SHALL BE RE-USED AS PRACTICAL FOR NEW WIRING DEVICES.
2. DISCONNECT AND REMOVE ALL ELECTRICAL TO EXISTING HAND DRYER BACK TO NEAREST ACTIVE JUNCTION BOX ABOVE CEILING, LEAVE CIRCUIT INTACT FOR CONNECTION OF REPLACEMENT HAND DRYER.



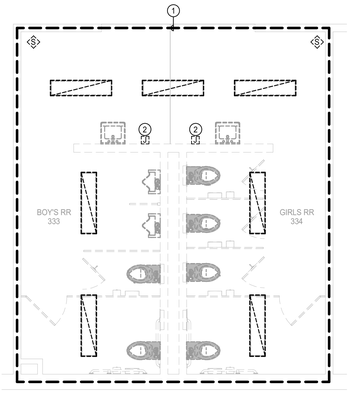
5 **ELECTRICAL DEMOLITION PLAN - RESTROOMS 434/435**
Scale: 1/4" = 1'-0"



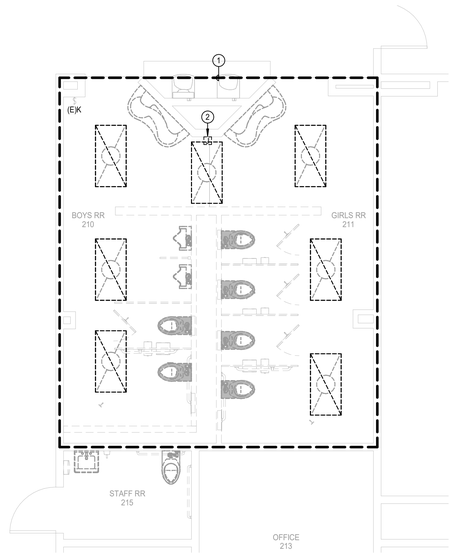
4 **ELECTRICAL DEMOLITION PLAN - RESTROOMS 407/408**
Scale: 1/4" = 1'-0"



2 **ELECTRICAL DEMOLITION PLAN - RESTROOMS 306/307**
Scale: 1/4" = 1'-0"



3 **ELECTRICAL DEMOLITION PLAN - RESTROOMS 333/334**
Scale: 1/4" = 1'-0"



1 **ELECTRICAL DEMOLITION PLAN - RESTROOMS 210/211**
Scale: 1/4" = 1'-0"

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Houston
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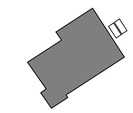
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3910 Glasbridge Dr, Houston, TX 77066

KEY PLAN



PLAN NORTH

TRUE



CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL PLANS - DEMOLITION

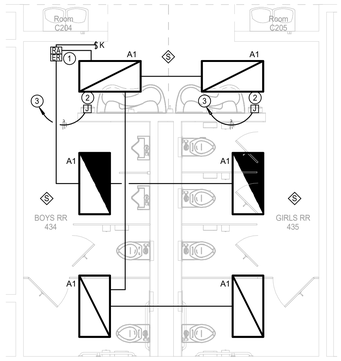
E2.01

ELECTRICAL GENERAL NOTES:

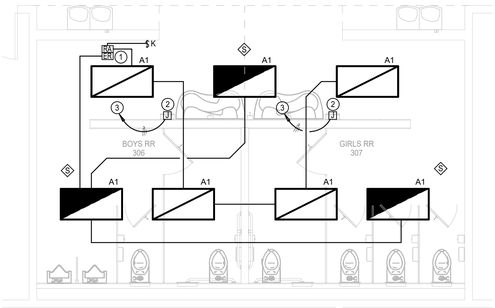
1. LOCATION OF NEW / REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX, PROVIDE NEW FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH ½-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET. "DAISY 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-ACCESSIBLECEILINGS 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 SPECIFICATION SECTION 26 05 33 CONDUIT SYSTEMS.
2. LIGHTING CONTROLS WHERE PROVIDED SHALL COMPLY WITH IECC 2015. REFER TO CONTROLS SCHEDULE FOR ALL LIGHTING CONTROLS, SENSORS, AND SWITCHING SCHEMES THROUGHOUT FACILITY.
3. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED POWER FOR EMERGENCY RELAYS, BATTERY PACKS AND / OR EXIT SIGNS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND / OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 12-FEET AFF OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND / OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND / OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID BELOW RELAY LOCATION. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE, INDICATE AS: DLM.
5. 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.

ELECTRICAL KEYED NOTES:

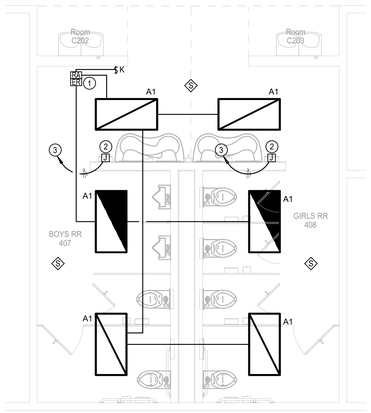
1. CONNECT TO EXISTING CIRCUIT PRESERVED DURING DEMOLITION, EXTEND CONDUIT/WIRE AND MAKE FINAL CONNECTION.
2. PROVIDE A JUNCTION BOX FOR CONNECTION OF NEW ELECTRIC HAND DRYER. VERIFY EXACT LOCATION AND MAKE FINAL CONNECTION.



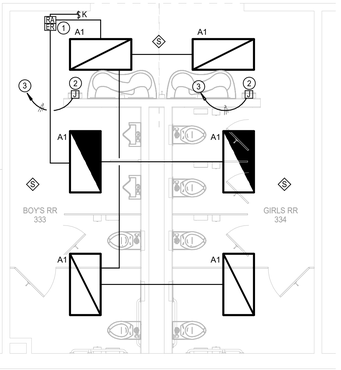
5 **ELECTRICAL PLAN - RESTROOMS 434/435**
Scale: 1/4" = 1'-0"



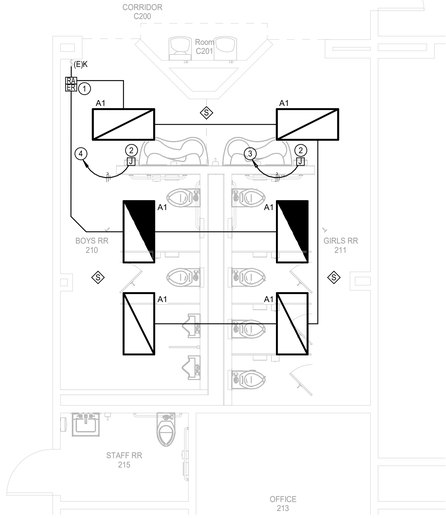
2 **ELECTRICAL PLAN - RESTROOMS 306/307**
Scale: 1/4" = 1'-0"



4 **ELECTRICAL PLAN - RESTROOMS 407/408**
Scale: 1/4" = 1'-0"



3 **ELECTRICAL PLAN - RESTROOMS 333/334**
Scale: 1/4" = 1'-0"



1 **ELECTRICAL PLAN - RESTROOMS 210/211**
Scale: 1/4" = 1'-0"

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

Coleman Partners ARCHITECTS
c-parch.com

OWNER
SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

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STRUCTURAL
DALLY + ASSOCIATES
T 713-337-8881

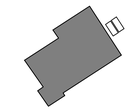
MEP
SALAS O'BRIEN
T 281-664-1900

spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3310 Glasbridge Dr, Houston, TX 77066

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
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REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL PLANS - NEW WORK

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

E3.01

Branch Panel: EH

EXISTING

Location: ELEC 610 **Volts:** 277/480 Wye **A.I.C. Rating:** 18,000
Supply From: **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 400A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Existing Lighting	EX.	20 1	2.0 / 1.0						2	
	3	Existing Lighting	EX.	20 1		2.0 / 1.0		3	20 EX.	Existing	4	
	5	Existing Lighting	EX.	20 1			2.0 / 1.0				6	
	7				6.7 / 8.3						8	
	9	XFMR TEL1 (75KVA)	EX.	45 3		6.7 / 8.3		3	60 EX.	Existing	10	
	11						6.7 / 8.3				12	
1	**13**	**EMERGENCY LIGHTING**	**#8**	**20 1**	1.4 / 0.0			1	-- --	SPACE	14	--
1	**15**	**EMERGENCY LIGHTING**	**#12**	**20 1**		0.2 / 0.0		1	-- --	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	18	--
			Total Load:		19.4 kVA	18.2 kVA	18.0 kVA					
			Total Amps:		70 A	66 A	65 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	1.6 kVA	125.00%	2.0 kVA	
Existing	54.0 kVA	125.00%	67.5 kVA	**Total Conn. Load:** 55.6 kVA
				Total Est. Demand: 69.5 kVA
				Total Conn. Current: 67 A
				Total Est. Demand... 84 A

Notes:
1 - PROVIDE NEW CIRCUIT BREAKER.

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

Branch Panel: RESHA

EXISTING

Location: ELECTRICAL 312 **Volts:** 277/480 Wye **A.I.C. Rating:** 10,000
Supply From: **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 225A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Existing Lighting	EX	20 1	2.0 / 16.7						2	
	3	Existing Lighting	EX	20 1		2.0 / 16.7		3	100 EX	RESLJ XFMR (75KVA)	4	
	5	Existing Lighting	EX	20 1			2.0 / 16.7				6	
	7	Existing Lighting	EX	20 1	2.0 / 2.0			1	20 EX	Existing Lighting	8	
	9	Existing Lighting	EX	20 1		2.0 / 2.0		1	20 EX	Existing Lighting	10	
	11	Existing Lighting	EX	20 1			2.0 / 2.0	1	20 EX	Existing Lighting	12	
	13	Existing Lighting	EX	20 1	2.0 / 2.0			1	20 EX	Existing Lighting	14	
	15	Existing Lighting	EX	20 1		2.0 / 2.0		1	20 EX	Existing Lighting	16	
	17	Existing Lighting	EX	20 1			2.0 / 2.0	1	20 EX	Existing Lighting	18	
	19	Existing Lighting	EX	20 1	2.0 / 2.0			1	20 EX	Existing Lighting	20	
--	21	SPACE	--	-- 1		0.0 / 2.7		1	20 **#8**	**SITE LIGHTING**	**22**	**C**
--	23	SPACE	--	-- 1			0.0 / 1.4	**1**	**20 #8**	**CANOPY LIGHTING**	**24**	**1,C**
--	25	SPACE	--	-- 1	0.0 / 0.2			**1**	**20 #8**	**CANOPY LIGHTING**	**26**	**1,C**
--	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	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1	-- --	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	42	--
			Total Load:		30.9 kVA	29.4 kVA	28.1 kVA					
			Total Amps:		112 A	107 A	101 A					

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	4.3 kVA	125.00%	5.4 kVA	
Miscellaneous	50.0 kVA	100.00%	50.0 kVA	**Total Conn. Load:** 88.3 kVA
Existing	34.0 kVA	125.00%	42.5 kVA	**Total Est. Demand:** 97.9 kVA
				Total Conn. Current: 106 A
				Total Est. Demand... 118 A

Notes:
1 - PROVIDE NEW CIRCUIT BREAKER.

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

LIGHTING CONTROLS SCHEDULE

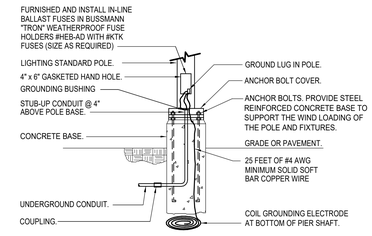
Type	Sensor Operation	# of Lighting Zones	Description
RA	OCCUPANCY - AUTO ON / AUTO OFF	1	ON/OFF KEYED SWITCH. NO DIMMING.
RB	NONE	1	CONTACTOR CONTROLLED WITH BMCS ON/OFF INTERFACE FOR PHOTOCELL / SCHEDULE. EXTERIOR LIGHTING SHALL AUTOMATICALLY SHUTOFF WHEN DAYLIGHT IS PRESENT. IN ADDITION, EXTERIOR LIGHTING SHALL BE TURNED OFF FROM 12:00AM TO 6:00AM OR FROM 1 HOUR AFTER CLOSING TO 1 HOUR BEFORE OPENING. LOCATE MANUAL BMCS OVERRIDE SWITCH IN PRINCIPAL'S OFFICE.
ER-RELAY	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE. 16A MINIMUM
ES-TRANSFER	-	-	UL1008 GENERATOR TRANSFER DEVICE, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	METALUX	2AFPSL2SCT3	RECESSED	4620L LED	4000 K	80	277	56 W	2X4 FLAT PANEL, OPAQUE ACRYLIC LENS, 0-10V DIMMING, SELECTABLE LUMENS/CCT, DLC LISTED.
B1	FAIL-SAFE	TR015-LD4-30W-40-OPL-BZ-UNV-E D-C1	SURFACE	2125L LED	4000 K	80	277	30 W	15-INCH SURFACE ROUND, OPAL LENS, HIGH ABUSE
C1	ALW LIGHTING	L3.5SMBWL-S4-MED-80-4000K-EX T/F-SW-UNV-END-FEED	SURFACE	870L/FT LED	4000 K	80	277	27 W	4-FOOT WET LOCATION LINEAR, LOW PROFILE, DIFFUSE LENS, EXTRUDED ALUMINUM HOUSING, END FEED. MOUNT IN UPPER CAVITY OF AVADEK CANOPY.

APPROVED LIGHTING MANUFACTURERS:
• LED / FLUORESCENT: LITHONIA, COLUMBIA, METALUX, AXIS, DAYBRITE, HE WILLIAMS, LSI, CREE
• EXIT SIGNS: LITHONIA, CHLORIDE, EMERGI-LITE, DUAL-LITE, SURE LITES, H.E. WILLIAMS
• ARCHITECTURAL HIGH PERFORMANCE FLOOD LIGHTS: WIDE-LITE, HADCO, KIM, McGRAW EDISON, GARDCO, LSI
• INDUSTRIAL: METALUX, LITHONIA, EXCELINE, G.E., HUBBELL, LUMARK, STONCO
• DOWN/TRACK LIGHTING: LIGHTOLIER, LITHONIA-GOTHAM, HALO ARCHITECTURAL, PRESCOLITE, HE WILLIAMS, INDY
• SECURITY (WALLPACKS): LITHONIA, McGRAW EDISON, G.E., LSI, HUBBELL, STONCO, GARDCO
• ARCHITECTURAL LINEAR: PEERLESS, LITECONTROL, ALERA, LAM, AMERICAN LINEAR LIGHTING, LEDALITE
• ARCHITECTURAL INDIRECT: INSIGHT, ORIGINAL CAST LIGHTING, SPI, LAM

• 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 LIST DOES NOT IMPLY 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 FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE OR SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIFIED LIGHT FIXTURE IF A SUBSTITUTION IS NOT APPROVED WITHOUT ANY ADDITIONAL COST TO THE OWNER. WHERE SPECIFIC OPTIONS/ACCESORIES ARE SPECIFIED OR REQUIRED, THEY SHALL BE PROVIDED WITHOUT ANY ADDITIONAL COST TO THE OWNER.
• 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 AND CONSTRUCTION DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT RESULT IN ANY ADDITIONAL COST TO THE OWNER.

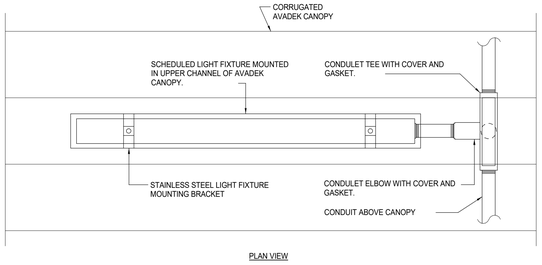


NOTE:
REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS FOR CONCRETE WORK.

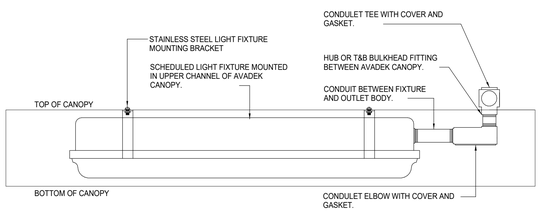
4 METAL POLE WITH CONCRETE ANCHOR BASE ELECTRICAL REQUIREMENTS
SCALE: NONE

3 TYPICAL LIGHTING FIXTURE WIRING DETAIL
SCALE: NONE

2 GROUNDING DETAIL
SCALE: NONE



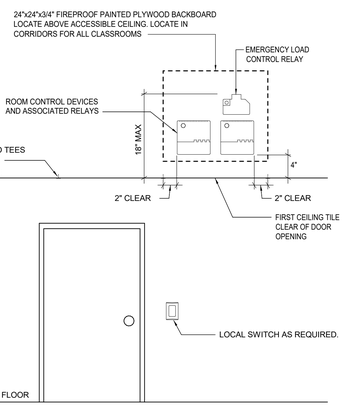
PLAN VIEW



SIDE VIEW

END VIEW

5 AVADEK LIGHT FIXTURE MOUNTING DETAIL
SCALE: NONE



1 TYPICAL LIGHTING CONTROLS ELEVATION
SCALE: NONE

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT - CEILING MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT - WALL MOUNTED ON EMERGENCY CIRCUIT
LIGHTING CONTROLS & DEVICES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE MOMENTARY DPST KEYED SWITCH
$D	LINE VOLTAGE DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$T	6-HOUR ROTARY TIMER SWITCH WITH NO HOLD U.N.O.
	PUSH BUTTON EPO SWITCH WITH COVER
$MC	LOW VOLTAGE MOMENTARY CONTACT SWITCH
$R	LOW VOLTAGE DIGITAL KEYPAD
$B	LOW VOLTAGE BUILDING MANAGEMENT (BMCS) LOCAL OVERRIDE SWITCH
	OCCUPANCY SENSOR (AUTO ON / AUTO OFF WITHIN 20-MINUTES)
	VACANCY SENSOR (MANUAL ON / AUTO OFF WITHIN 20-MINUTES)
	PHOTOCELL SENSOR
RF	LIGHTING CONTROL SYSTEM. ('F' DENOTES TYPE - SEE LIGHTING CONTROLS SCHEDULE)
ER	EMERGENCY LOAD CONTROL RELAY. MINIMUM 16A AND 0-10V COMPATIBLE. PROVIDE U.L. 924 U.N.O.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
U	DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS.
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
U	DOUBLE DUPLEX WITH TWO USB CHARGING PORTS 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 DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
	JUNCTION BOX
	FLUSH REMOTE GFCI DEVICE (LOCATE IN READILY ACCESSIBLE LOCATION)
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
$	MOTOR-RATED SWITCH. 20A UNLESS INDICATED OTHERWISE.
	DISCONNECT SWITCH AS REQUIRED
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
VFD	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
HF	HIGH EFFICIENCY HARMONIC FILTER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
T	LOW VOLTAGE TRANSFORMER, SIZE AND TYPE AS REQUIRED.
	CHIME/BUZZER
ELECTRICAL EQUIPMENT	
	ELECTRICAL PANELBOARD; REFER TO FLOOR PLANS FOR VOLTAGE.
	DRY TYPE TRANSFORMER
	PLYWOOD TELEPHONE BACKBOARD
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
	3/4"C. UNLESS OTHERWISE NOTED; LONG HATCH, NEUTRAL; SHORT HATCH, PHASE; LONG HATCH & HOOK, INSULATED GROUND. NO HATCHES INDICATES 2 CONDUCTORS. ARROW INDICATES HOMERUN.
	PARTIAL ELECTRICAL HOME RUN
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES 'WEATHERPROOF'
H	INDICATES 'HORIZONTAL'
NL	INDICATES 'NIGHT LIGHT'.
TP	INDICATES 'TAMPER PROOF'
(KS)	INDICATES 'KNEE SPACE'. LOCATE WIRING DEVICE IN KNEESPACE
U.N.O.	INDICATES 'UNLESS NOTED OTHERWISE'
(E)	INDICATES EXISTING TO REMAIN
(R)	INDICATES REPLACE DEVICE AND COVERPLATE.
"	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-4X MINIMUM.
-ALL EXTERIOR RECEPTACLES SHALL BE WATER RESISTANT TYPE.

ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.
2. ALL LIGHT FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING EQUIPMENT TO AVOID CONFLICTS. LOCATE LIGHT FIXTURES ON PERIMETER WALLS OF MECHANICAL AREAS WHERE PRACTICAL.
3. ALL EMPTY CONDUIT SHALL HAVE PULL STRING.
4. EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM.
5. VERIFY MOUNTING HEIGHTS OF RECEPTACLES WITH CASEWORK ELEVATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS FOR LOCATION AND COORDINATION OF ELECTRICAL OUTLETS. AT KNEESPACE LOCATIONS, LOCATE ELECTRICAL OUTLETS WITHIN KNEESPACE, UNLESS NOTED OTHERWISE. AT COUNTERS WITH OUT KNEESPACE, LOCATE OUTLETS HORIZONTALLY 6" ABOVE BACK SPLASH, UNLESS NOTED OTHERWISE.
6. ALL FIRE ALARM DEVICES, RECEPTACLES, SWITCHES, AND WIRING DEVICES IN MECHANICAL AND ELECTRICAL ROOMS ARE TO BE RECESSED IN WALLS.
7. ALL LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUITS CONDUITS SHALL CONTAIN A GROUND WIRE. USING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
10. CENTER ALL EXIT SIGNS OVER DOORS.

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

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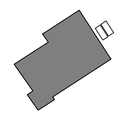
OWNER: SPRING ISD T 281-891-8156
ARCHITECT: IN2 ARCHITECTURE T 972-427-1222
ARCHITECT: COLEMAN PARTNERS ARCHITECTS T 225-387-4414
CIVIL/LANDSCAPING: BROOKS & SPARKS T 281-579-9500
STRUCTURAL: DALTY + ASSOCIATES T 713-337-8881
MEP: SALAS O'BRIEN T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3915 Gladebridge Dr, Houston, TX 77068

KEY PLAN



PLAN NORTH / TRUE

BRADLEY KALMANS
STATE OF TEXAS
80219
LICENSED
PROFESSIONAL ENGINEER
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

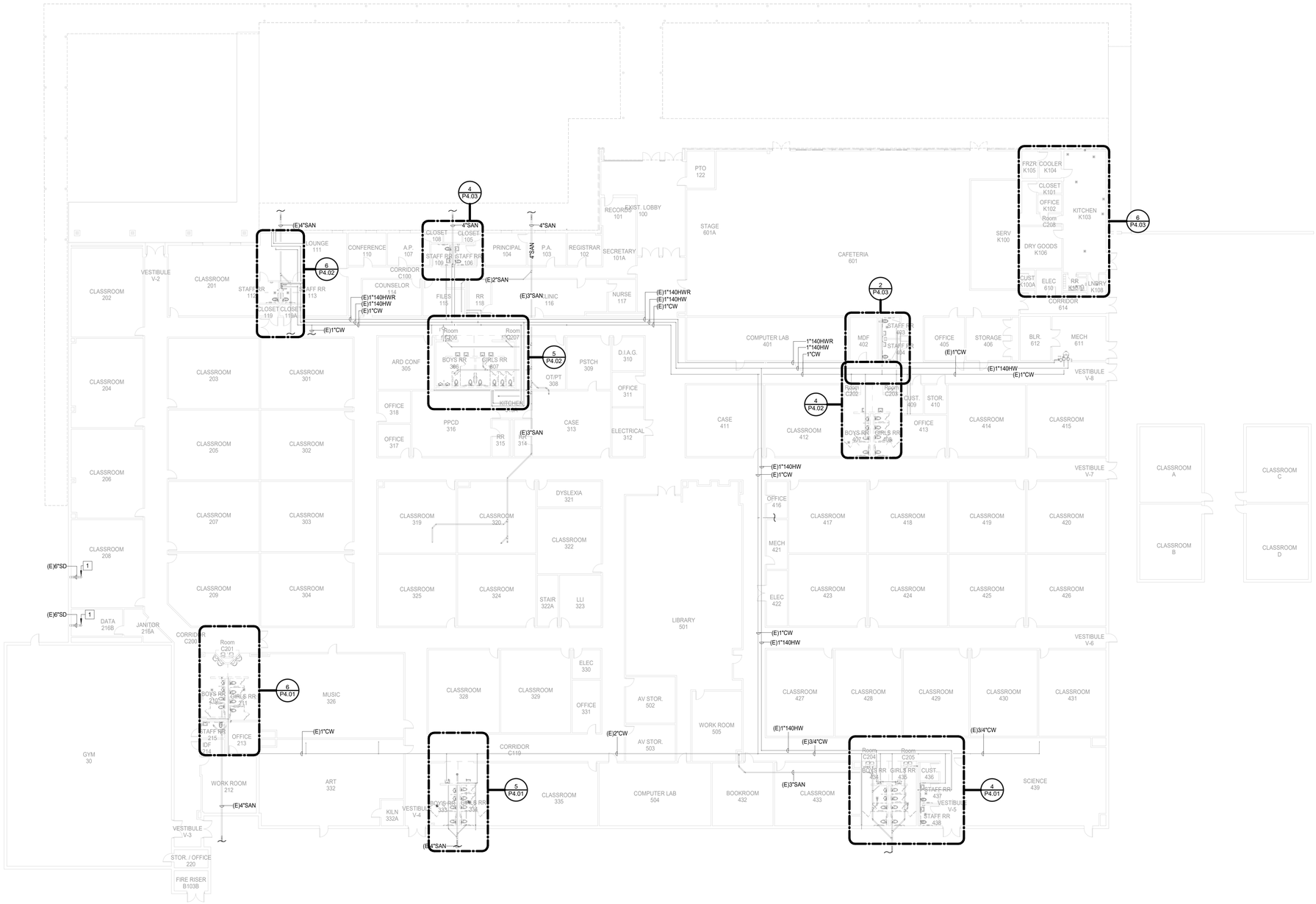
NO.	DESCRIPTION	DATE

ELECTRICAL DETAILS AND SCHEDULES

E4.01

PLUMBING KEYED NOTES

1	EXISTING 6" STORM FROM ROOF DRAIN ABOVE TO REMAIN. CONNECT NEW STORM AT OFFSET FIRST ELBOW.



1 PLUMBING DEMOLITION FLOOR PLAN

Scale: 1/16" = 1'-0"

Salas O'Brien

Houston
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Salas O'Brien Project Number: 2550-01578-00

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IN2 ARCHITECTURE
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ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T. 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T. 281-578-9595

STRUCTURAL
DALLY + ASSOCIATES
T. 713-337-8881

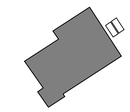
MEP
SALAS O'BRIEN
T. 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3111 Glasbridge Dr, Houston, TX 77066

KEY PLAN





CLIENT	IN2 PROJECT NUMBER
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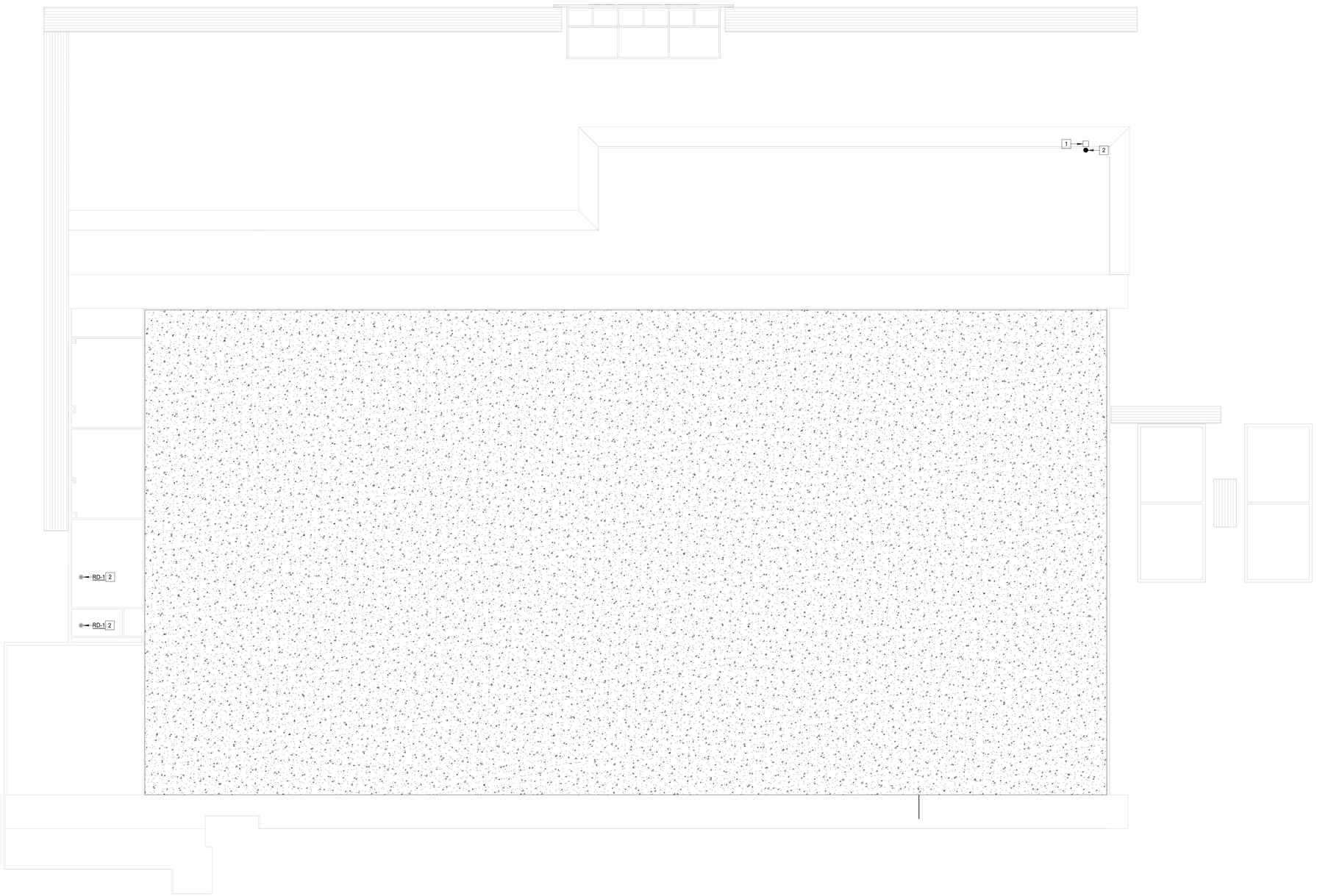
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PLUMBING PLANS - DEMOLITION

P0.01

PLUMBING KEYED NOTES

1	EXISTING ACCESS PANEL.
2	REMOVE STORM DRAIN AND REPLACED. REFER TO ARCHITECTURAL DRAWINGS FOR RECONNECTION TO NEW DOWNSPOUT AND ADAPTER TO STORM PIPING.



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

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T 225-387-4414

CIVIL LANDSCAPING
BROOKS & SPARKS
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DALLY + ASSOCIATES
T 713-337-8881

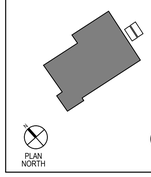
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T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3310 Glasbridge Dr, Houston, TX 77068

KEY PLAN





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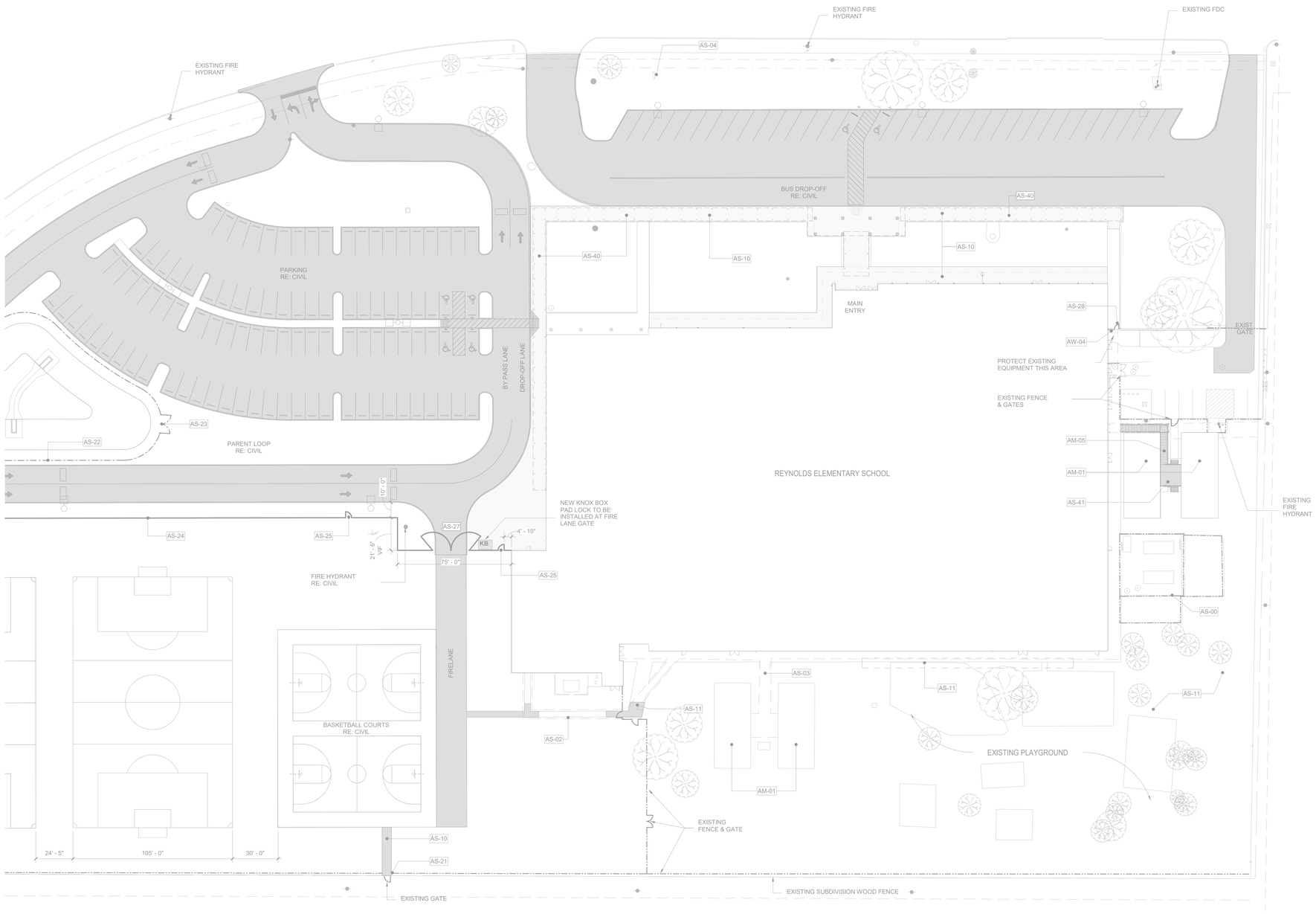
REVISIONS

NO.	DESCRIPTION	DATE

PLUMBING ROOF PLANS - DEMOLITION

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

P0.02



1 **PLUMBING SITE PLAN**
Scale: 1" = 30'-0"

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SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
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BROOKS & SPARKS
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T 713-337-9881

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T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3919 Glasbridge Dr, Houston, TX 77066

KEY PLAN

PLAN NORTH
TRUE

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL
ENGINEER
10.24.25

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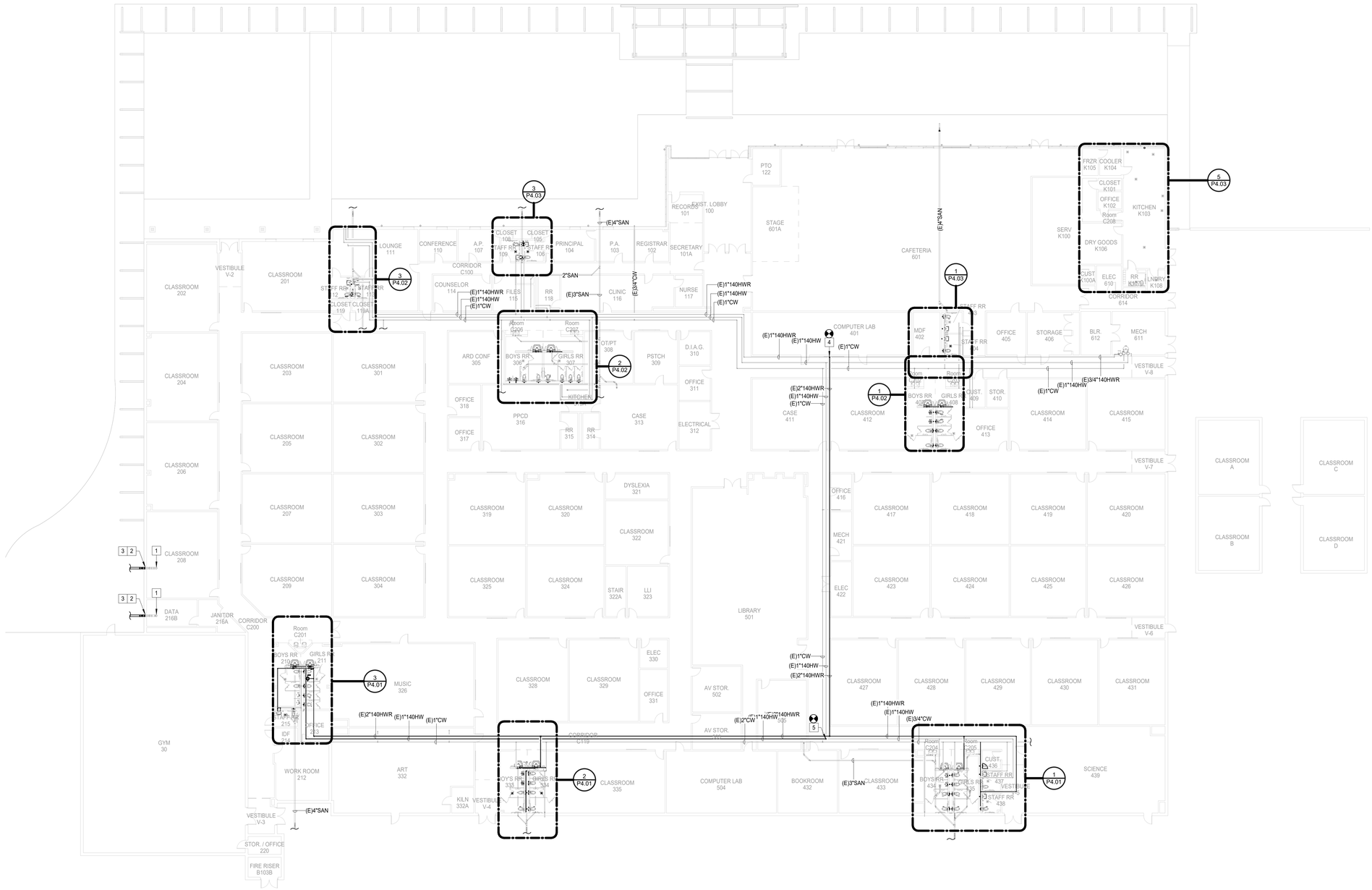
PLUMBING SITE PLAN

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

P1.01

PLUMBING KEYED NOTES

1	EXISTING 6" STORM FROM ROOF DRAIN ABOVE.
2	NEW 6" STORM FROM ROOF DRAIN ABOVE TO REMAIN. CONNECT NEW STORM AT OFFSET FIRST ELBOW.
3	6" SD OFFSET DOWN 3' BFF TO STORM MAINS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
4	NEW 1" HWR CONNECTION TO EXISTING HWR MAIN.
5	NEW 1" HW CONNECTION TO EXISTING HW MAIN.



1 PLUMBING FLOOR PLAN

Scale: 1/16" = 1'-0"

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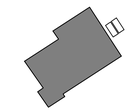
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3111 Glasbridge Dr, Houston, TX 77066

KEY PLAN



BRADLEY KALMANS
STATE OF TEXAS
90210
LICENSED
PROFESSIONAL ENGINEER
10.24.25

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PLUMBING PLANS

P3.01

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

PLUMBING KEYED NOTES

1	EXISTING ACCESS PANEL.
2	EXISTING STORM DRAIN.



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

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CIVIL LANDSCAPING
BROOKS & SPARKS
T 281-578-9595

STRUCTURAL
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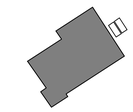
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3070 Glasbridge Dr, Houston, TX 77066

KEY PLAN





CLIENT	IN2 PROJECT NUMBER
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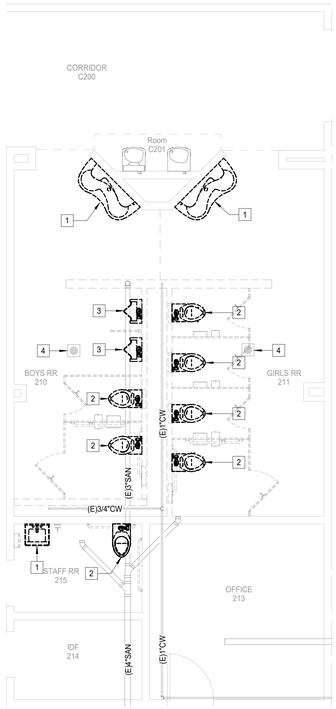
PLUMBING ROOF PLANS

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

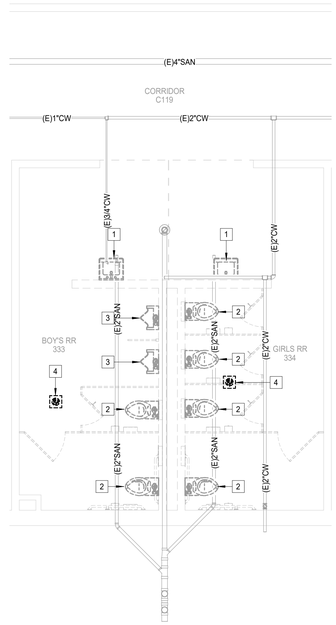
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PLUMBING KEYED NOTES

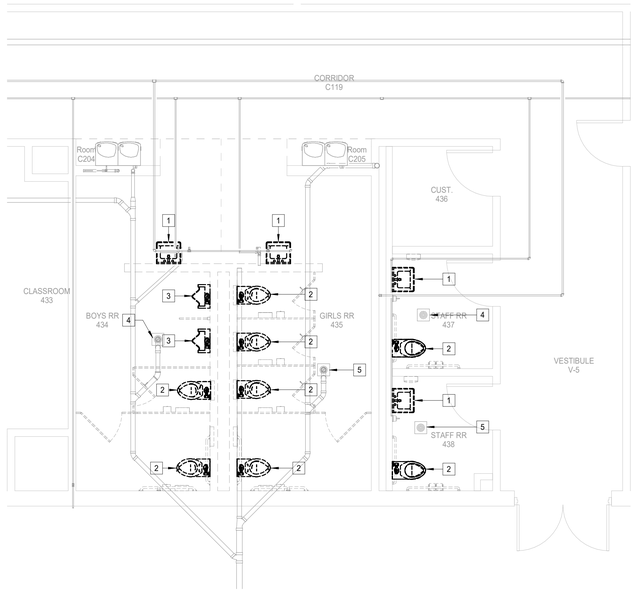
1	EXISTING LAVATORY TO BE REMOVED. REMOVE CW, HW, SANITARY AND VENT BACK TO POINT INDICATED.
2	EXISTING WATER CLOSET TO BE REMOVED. REMOVE CW, SANITARY AND VENT BACK TO POINT INDICATED.
3	EXISTING URINAL TO BE REMOVED. REMOVE SANITARY, CW AND VENT BACK TO POINT INDICATED.
4	REMOVE AND CLEAN FLOOR DRAIN & FACE PLATE AND REINSTALL POST FLOOR REPLACEMENT. EXISTING FLOOR DRAIN TO REMAIN.
5	REINSTALL FLOOR SINK ON EXISTING FLOOR SINK.



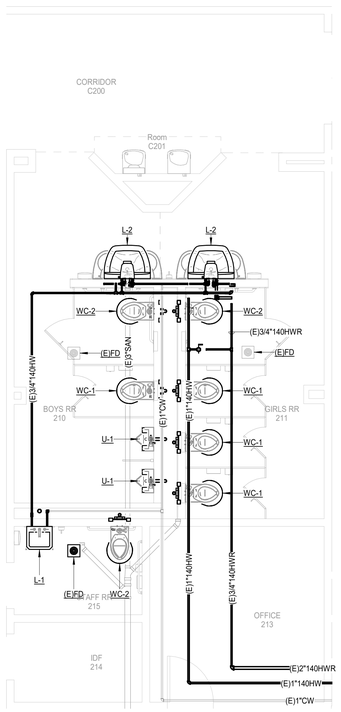
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Scale: N.T.S.



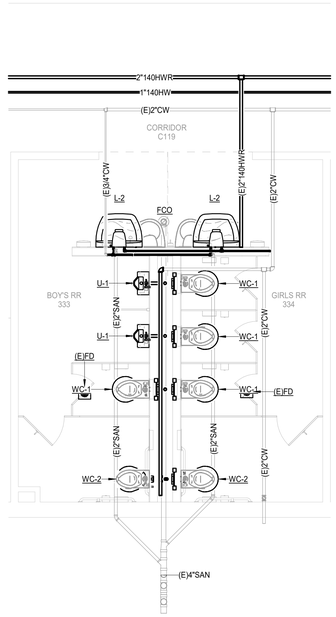
5 **PLUMBING DEMOLITION - BOYS RR & GIRLS RR 334**
Scale: N.T.S.



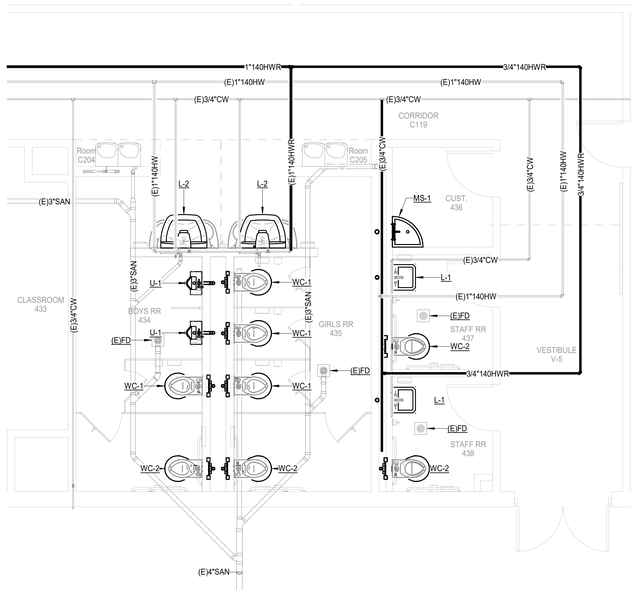
4 **PLUMBING DEMOLITION - BOYS RR 434 & GIRS RR 435**
Scale: N.T.S.



3 **PLUMBING FLOOR PLAN - BOYS RR 210, GIRLS RR211, & STAFF RR 215**
Scale: N.T.S.



2 **PLUMBING FLOOR PLAN - BOYS RR & GIRLS RR 334**
Scale: N.T.S.



1 **PLUMBING FLOOR PLAN - BOYS RR 407 & GIRS RR 408**
Scale: N.T.S.

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T. 281-578-9566

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T. 713-337-8881

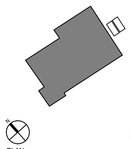
MEP
SALAS O'BRIEN
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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3515 Glasbridge Dr, Houston, TX 77068

KEY PLAN



BRADLEY KALMANS
92219
LICENSED
10.24.25

CLIENT	IN2 PROJECT NUMBER
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REVISIONS

NO.	DESCRIPTION	DATE

PLUMBING PLANS - ENLARGED

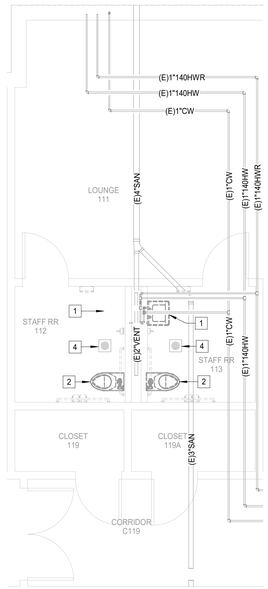
Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111

Salas O'Brien Project Number: 2550-01578-00

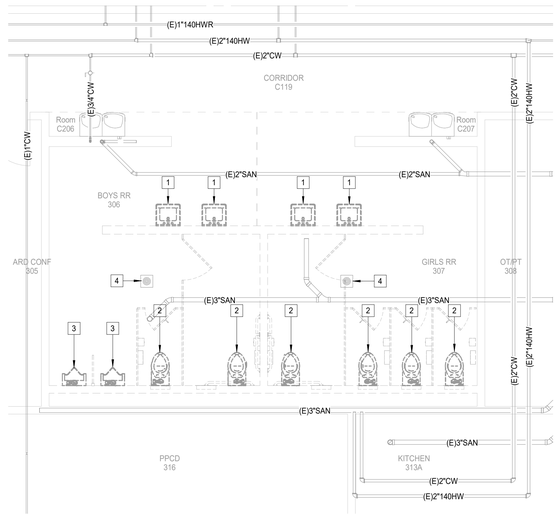
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PLUMBING KEYED NOTES

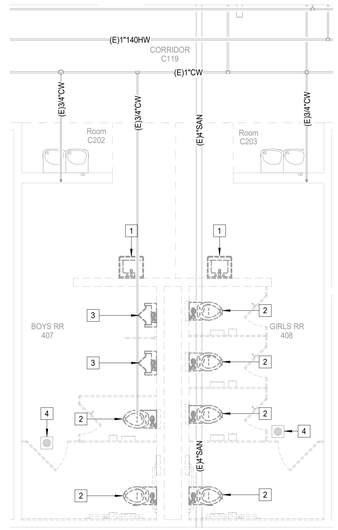
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2	EXISTING WATER CLOSET TO BE REMOVED. REMOVE CW, SANITARY AND VENT BACK TO POINT INDICATED.
3	EXISTING URINAL TO BE REMOVED. REMOVE SANITARY, CW AND VENT BACK TO POINT INDICATED.
4	REMOVE AND CLEAN FLOOR DRAIN & FACE PLATE AND REINSTALL POST FLOOR REPLACEMENT. EXISTING FLOOR DRAIN TO REMAIN.



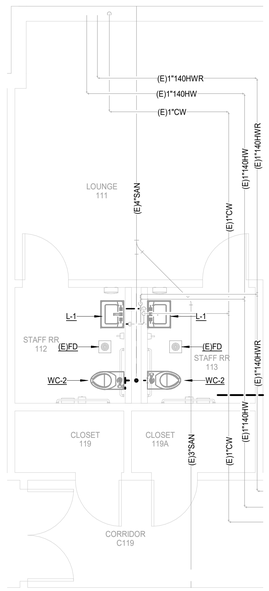
6 PLUMBING DEMOLITION - STAFF RR 112 & 113
Scale: N.T.S.



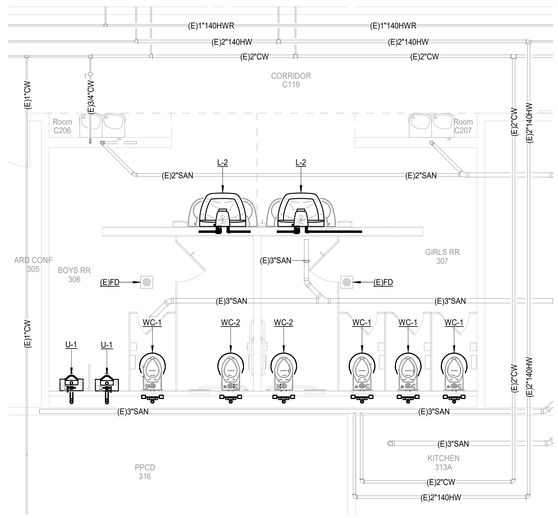
5 PLUMBING DEMOLITION - BOYS RR 308 & GIRS RR 307
Scale: N.T.S.



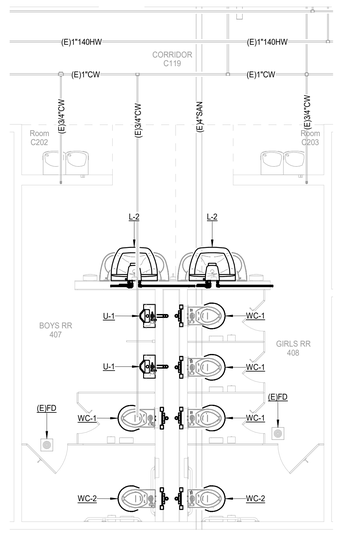
4 PLUMBING DEMOLITION - BOYS RR 407 & GIRS RR 408
Scale: N.T.S.



3 PLUMBING FLOOR PLAN - STAFF RR 112 & 113
Scale: N.T.S.



2 PLUMBING FLOOR PLAN - BOYS RR 306 & GIRLS RR 307
Scale: N.T.S.



1 PLUMBING FLOOR PLAN - BOYS RR 407 & GIRS RR 408
Scale: N.T.S.

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972-427-1222 / www.in2arch.com

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OWNER
SPRING ISD
T 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
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ARCHITECT
COLEMAN PARTNERS ARCHITECTS
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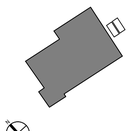
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SALAS O'BRIEN
T 281-664-1900

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REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3515 Glasbridge Dr, Houston, TX 77068

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
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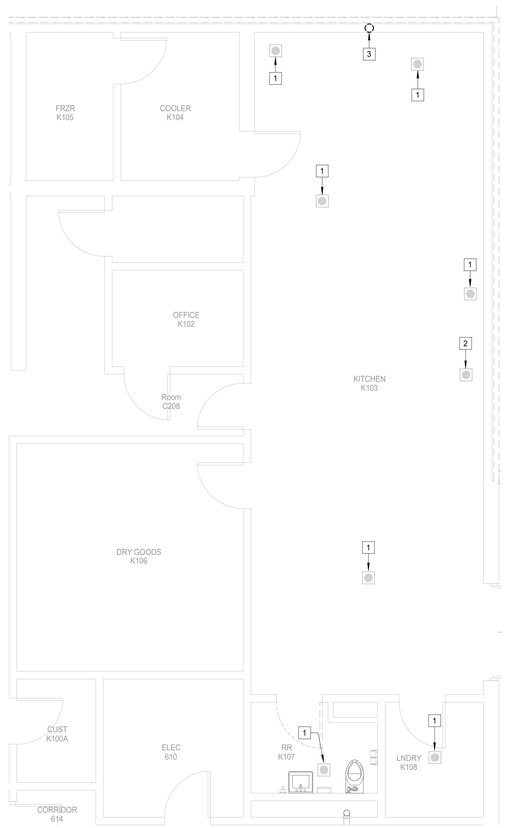
NO.	DESCRIPTION	DATE

PLUMBING PLANS - ENLARGED

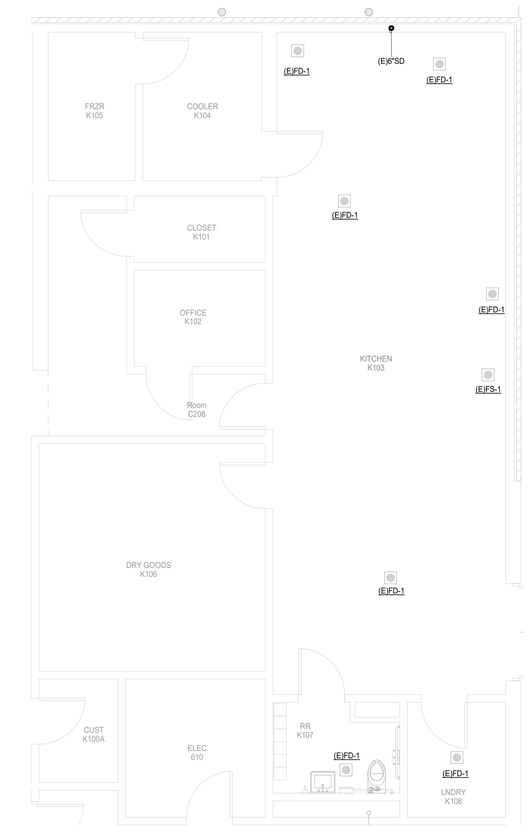
P4.02

PLUMBING KEYED NOTES

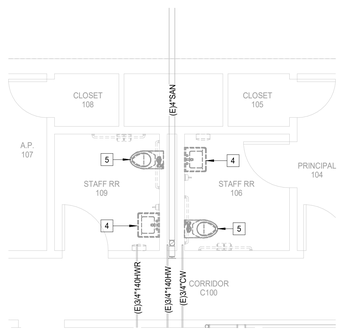
1	REMOVE AND CLEAN FLOOR DRAIN & FACE PLATE AND REINSTALL POST FLOOR REPLACEMENT. EXISTING FLOOR DRAIN TO REMAIN.
2	REMOVE AND CLEAN FLOOR SINK & FACE PLATE AND REINSTALL POST FLOOR REPLACEMENT. EXISTING FLOOR SINK TO REMAIN.
3	EXISTING STORM FROM ROOF DRAIN ABOVE TO REMAIN. CONNECT NEW STORM AT FIRST ELBOW.
4	EXISTING LAVATORY TO BE REMOVED. REMOVE CW, HW, SANITARY AND VENT BACK TO POINT INDICATED.
5	
6	EXISTING WATER CLOSET TO BE REMOVED. REMOVE CW, SANITARY AND VENT BACK TO POINT INDICATED.
7	



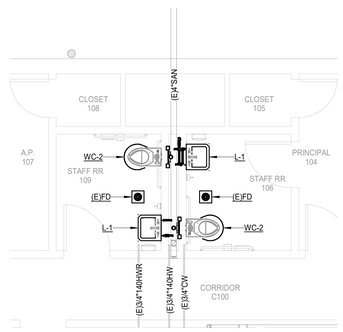
6 **PLUMBING DEMOLITION - KITCHEN K103, RR K107,& LNDRY K108**
Scale: N.T.S.



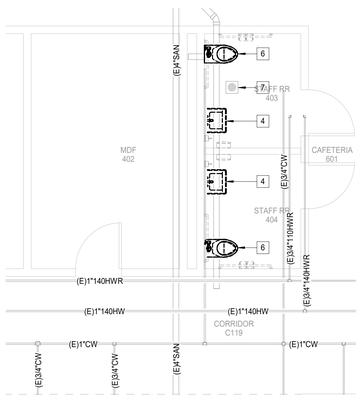
5 **PLUMBING FLOOR PLAN - KITCHEN K103, RR K107,& LNDRY K108**
Scale: N.T.S.



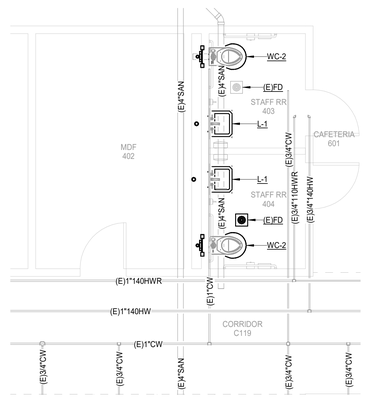
4 **PLUMBING DEMOLITION - STAFF RR 108 & 109**
Scale: N.T.S.



3 **PLUMBING FLOOR PLAN - STAFF RR 108 & 109**
Scale: N.T.S.



2 **PLUMBING DEMOLITION - STAFF RR 403 & 404**
Scale: N.T.S.



1 **PLUMBING FLOOR PLAN - STAFF RR 403 & 404**
Scale: N.T.S.

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

Coleman Partners ARCHITECTS
cparch.com

OWNER
SPRING ISD
T. 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T 281-578-9595

STRUCTURAL
DALLY + ASSOCIATES
T 713-337-8881

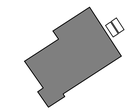
MEP
SALAS O'BRIEN
T 281-664-1900

spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3919 Glasbridge Dr, Houston, TX 77066

KEY PLAN



BRADLEY KALMANS
STATE OF TEXAS
80210
LICENSED
PROFESSIONAL ENGINEER
10.24.25

CLIENT	IN2 PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

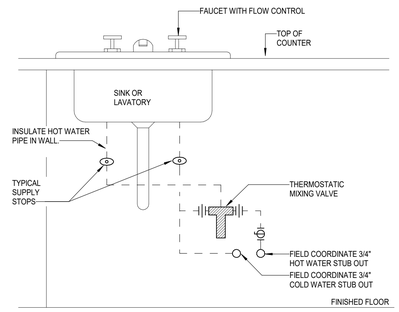
REVISIONS

NO.	DESCRIPTION	DATE

PLUMBING PLANS - ENLARGED

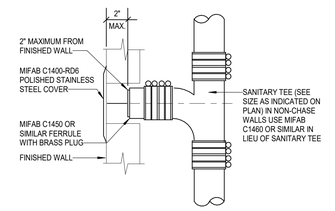
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PHW04 - 09/10/18



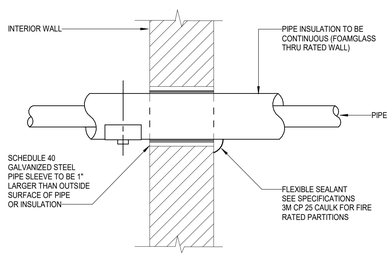
3 THERMOSTATIC MIXING VALVE PIPING AT SINK OR LAVATORY
SCALE: NONE

PSAN03- XX/XX/XX



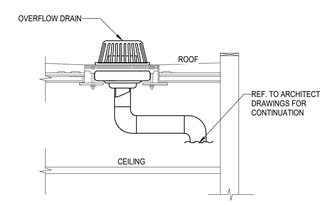
2 WALL CLEANOUT
SCALE: NONE

PSL01- XX/XX/XX



4 INTERIOR WALL PENETRATION
SCALE: NONE

PST04 - XX/XX/XX



1 DOWNSPOUT NOZZEL
SCALE: NONE

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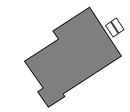
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KEY PLAN



BRADLEY KALMANS
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REVISIONS

NO.	DESCRIPTION	DATE

PLUMBING DETAILS

P5.01

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	CONDENSATE DRAIN PIPING (CD)
D	CONDENSATE - 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

PLUMBING FIXTURE SCHEDULE

TYPE: WC-1 (STANDARD HEIGHT)
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA WITH ANTIMICROBIAL SURFACE, 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 ELONGATED OPEN FRONT SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. BLACK SEAT COLOR. BEMIS #1955SSCT 0047.
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 II #111-1.28.
CARRIER: WADE 311 (HORIZONTAL) AND 330 (VERTICAL) SERIES WITH 500 LB WEIGHT CAPACITY AND FLUSH VALVE SUPPORT (-AM1).
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT REQUIREMENTS.

TYPE: WC-2 (T.A.S. / ADA COMPLIANT)
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA WITH ANTIMICROBIAL SURFACE, 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 ELONGATED OPEN FRONT SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. BLACK SEAT COLOR. BEMIS #1955SSCT 0047. 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 II #111-1.28.
CARRIER: WADE 311 (HORIZONTAL) AND 330 (VERTICAL) SERIES WITH 500 LB WEIGHT CAPACITY AND FLUSH VALVE SUPPORT (-AM1).
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT REQUIREMENTS.

TYPE: U-1 (T.A.S. COMPLIANT)
DESCRIPTION: URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, WASHOUT FLUSH ACTION, INTEGRAL TRAP, REMOVABLE DOMED STRAINER. AMERICAN STANDARD "WASHBROOK" 6590.001
FLUSH VALVE: 0.5 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL II #186-0.5.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. WADE 401-AM1-M36.
ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: L-1 (T.A.S. COMPLIANT) - METERED - TEMPERED WATER FOR STUDENTS
DESCRIPTION: LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, 4" CENTERSET FAUCET HOLES. AMERICAN STANDARD LUCERNE #0355.012.
FAUCET: CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH COVER PLATE, 4-1/8" SPOUT, AND PUSH BUTTON HANDLE INDEXED "PUSH". SELF CLOSING METERING CARTRIDGE. VANDAL RESISTANT 0.5 GPM NON-AERATING LAMINAR FLOW OUTLET. CHICAGO MODEL #857-E580VP-665PSHABCP
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 #8872C.
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 #LFH2165LK.
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" COLD WATER ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: L-2 (T.A.S. COMPLIANT)
DESCRIPTION: WALL-MOUNTED 3-USER, VANDAL-RESISTANT SHALLOW BOWL WASH FOUNTAIN PREASSEMBLED BOWL AND PEDESTAL UNIT CONSTRUCTED OF STAINLESS STEEL WITH CHROME PLATED EXPOSED FITTINGS. INCLUDES INDIVIDUAL SPRAY HEADS PER STATION WITH STAINLESS STEEL SUPPORT TUBE, MIXING VALVE, VOLUME CONTROL VALVE, WASTE AND SUPPLY CONNECTIONS WITH STOPS, STRAINERS, AND CHECK VALVES. VANDAL-RESISTANT CONSTRUCTION WITH CONCEALED SPRAY HEADS AND CONNECTIONS. TERREON - MF2939
BOWL: 36-INCH (914 MM) DIAMETER, 5 INCH (127 MM) DEEP, WITH BACKSPLASH.
UNIT HEIGHT: 34 INCH (864 MM)

HAND CONTROL PUSHBUTTON
OPERATION: OPERATION OF PUSHBUTTON ACTIVATES AN AIR METERING VALVE WITH FIELD-ADJUSTABLE TIMING.

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.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: RD-1
DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINIUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-46-52-53 FOR 6" AND SMALLER, WADE 3001-46-52-53 FOR 8" AND LARGER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

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.

PROVIDE AND INSTALL ACID RESISTANT P-TRAPS ON ALL SCIENCE, BIOLOGY, CHEMISTRY, AND PHYSICS CLASSROOM SINKS.

DISREGARD FIXTURES LISTED THAT ARE NOT ON THIS JOB.

THERMOSTATIC MIXING VALVE SCHEDULE

ITEM NO.	TEMP. IN DEG. F	TEMP. OUT DEG. F	MIN. FLOW GPM	DES. FLOW GPM	VALVE FINISH	THERMO METER	UNION CONN.	PRESS. DIFF.	MANUFACTURER / MODEL
TMV-1	160	110	0.5	30	RB	YES	YES	4	SYMMONS #4-900-ASB-W
TMV-1	160	110	0.5	30	RB	YES	YES	4	SYMMONS #4-900-ASB-W
TMV-1	160	110	0.5	30	RB	YES	YES	4	SYMMONS #4-900-ASB-W
TMV-1	160	110	0.5	30	RB	YES	YES	4	SYMMONS #4-900-ASB-W

NOTES: TMV-3 AND TMV-4 SHALL BE PIPED TO MEET T.A.S. REQUIRED CLEARANCES.

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 GENERAL NOTES

1 ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.

2 THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.

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.

PLUMBING MATERIAL LIST

ABOVE GRADE, INSIDE BUILDING

SANITARY WASTE AND VENT PIPING SHALL BE

NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI. STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75, OR,

STORM PIPING SHALL BE

SERVICE WEIGHT CAST IRON HUB AND SPIGOT PIPE AND FITTINGS WITH ELASTOMERIC GASKETS JOINTS.

DOMESTIC WATER PIPING SHALL BE

DRAWN (HARD) COPPER WATER TUBE, TYPE "L", ASTM B88, WITH WROUGHT COPPER FITTINGS, ANSI B16.22 AND 95-5 SOLDER JOINTS.

ACID WASTE AND VENT PIPING SHALL BE

GLASS- BOROSILICATE ACID RESISTANT GLASS PIPE AND FITTINGS WITH TFE SEAL RINGS OR FLANGES. SYSTEM SHALL COMPLY WITH FEDERAL SPECIFICATION DD-G-541-B. PROVIDE BEAD-END PIPING.

BELOW GRADE, INSIDE BUILDING

SANITARY WASTE AND VENT PIPING SHALL BE

SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS. DO NOT USE IN AIR SUPPLY OR RETURN PLENUMS, AND OR WHERE FIRE RATED WALLS, PARTITIONS, OR FLOORS ARE PENETRATED.

STORM PIPING SHALL BE

SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS.

DOMESTIC WATER PIPING SHALL BE

ANNEALED (SOFT) COPPER WATER TUBE, TYPE "K", ASTM B88, WITH NO JOINTS OR FITTINGS BELOW SLAB.

ACID WASTE AND VENT PIPING SHALL BE

NON-FLAME RETARDANT POLYPROPYLENE PIPE WITH FUSION WELDED FITTINGS.

GAS PIPING SHALL BE

PIPE 2" AND SMALLER. PROVIDE SCHEDULE 40 ASTM A 53 BLACK STEEL WITH FACTORY FABRICATED SOCKET WELD FITTINGS.

PIPE LARGER THAN 2", USE SCHEDULE 40 ASTM A 53 BLACK STEEL PIPE WITH LONG RADIUS WELD FITTINGS.

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01578-00

IN2 ARCHITECTURE
12222 Merit Drive Suite 1140 Dallas, TX 75251
972-427-1222 / www.in2arch.com

Coleman Partners ARCHITECTS
cparch.com

OWNER
SPRING ISD
T. 281-891-8156

ARCHITECT
IN2 ARCHITECTURE
T. 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T. 225-387-4414

CIVIL/LANDSCAPING
BROOKS & BROOKS
T. 281-578-9998

STRUCTURAL
DALLY + ASSOCIATES
T. 713-337-8881

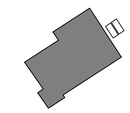
MEP
SALAS O'BRIEN
T. 281-664-1900

spring ISD

REYNOLDS ELEMENTARY MAINTENANCE IMPROVEMENTS

REYNOLDS ELEMENTARY SCHOOL
3919 Gladeridge Dr, Houston, TX 77068

KEY PLAN



BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL
ENGINEER
10.24.25

CLIENT	INZ PROJECT NUMBER
SISD	2411
DATE	ISSUE
10.24.2025	CONSTRUCTION DOCUMENTS

REVISIONS

NO.	DESCRIPTION	DATE

PLUMBING SCHEDULES

P6.01

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
(S2)	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
(S4)	WALL MOUNT EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
C	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
⊢	SYMBOL INDICATES THAT A VIDEO SURVEILLANCE DEVICE IS WALL MOUNTED			

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
S	EXTERIOR FIRE ALARM SPEAKER

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WM'	DEVICE IS TO BE WALL MOUNTED.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

TECHNOLOGY PLAN KEY NOTES

1 INDICATES APROXIMATE LOCATION OF IDF ROOM

2 ALL INTERCOM SPEAKERS AND FIRE ALARM DEVICES SHALL BE REMOVED, BAGGED, SUSPENDED IN THE CEILING AND REINSTALLED AFTER RESTROOM SCOPE OF WORK IS COMPLETED. FIELD VERIFY EXACT DEVICES LOCATIONS AND QUANTITIES.

3 EXISTING DEVICE SHALL BE REMOVED AND REINSTALLED DURING CONSTRUCTION. DEVICE SHALL BE REINSTALLED 8" BELOW NEW CANOPY. CONFIRM FINAL ROUGH IN LOCATION WITH ARCHITECT AND AND OWNER.

4 INDICATES EXISTING WALL MOUNTED FIRE ALARM SPEAJER STROBE DEVICE. TYPICAL FOR ALL SHOWN IN PROJECT. CONTRACTOR TO FEILD VERIFY.

TECHNOLOGY PLAN GENERAL NOTES

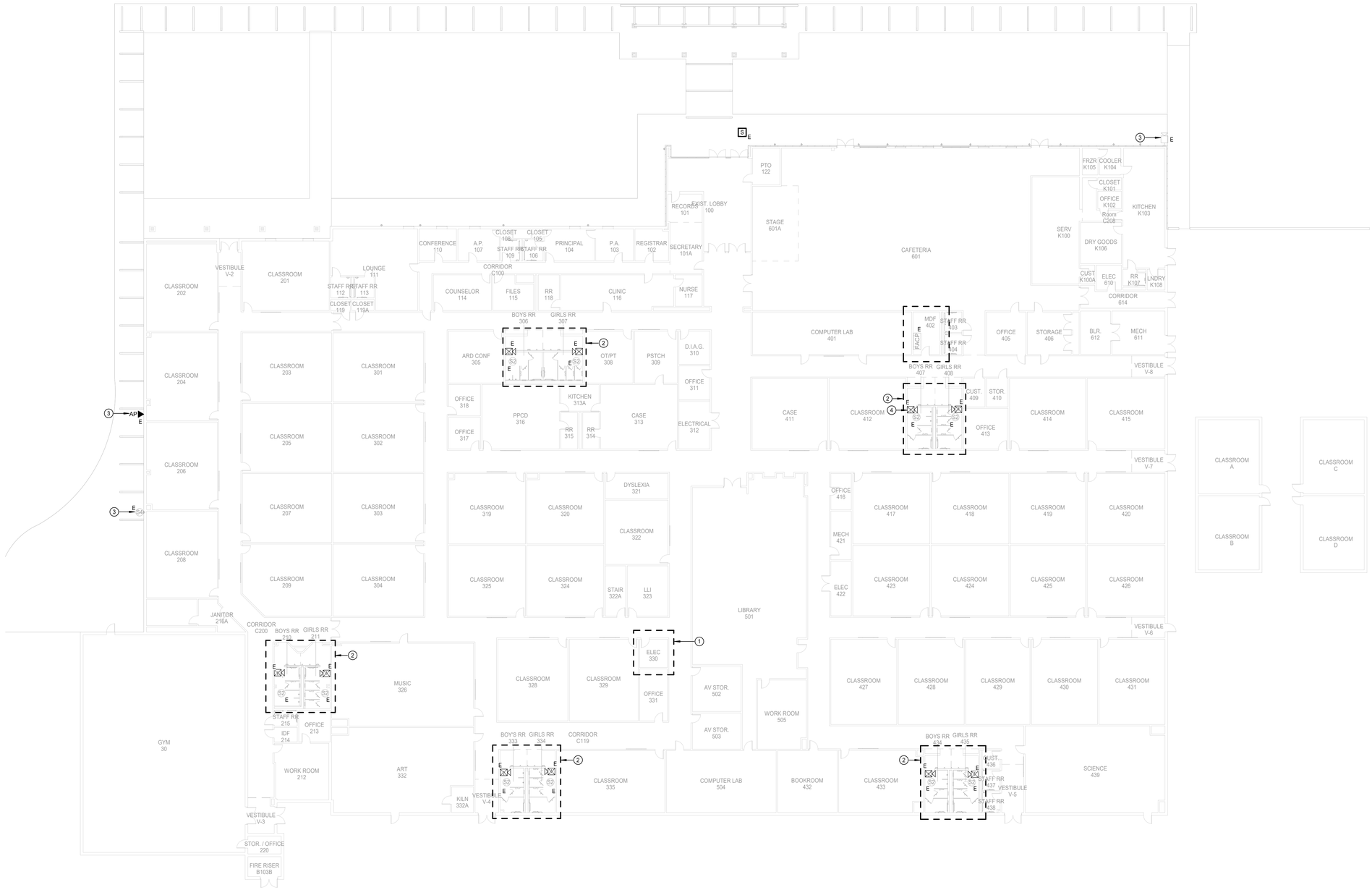
A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT AND OWNER.

B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY NOTES & LEGENDS AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

D EXISTING DEVICE LOCATIONS DETERMINED VIA CASUAL SITE OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL DIV 27 AND DIV 28 DEVICES LOCATED IN PROJECTS SCOPE OF WORK. REFERENCE ARCHITECTURAL AMD MEP PLANS FOR ADDITIONAL SCOPE INFORMATION.

E CONTRACTOR TO FEILD TEST ALL DIV 27 AND 28 DEVICES THAT WILL BE REMOVED AND REINSTALLED IN SCOPE OF THIS PROJECT. PROIR TO REMOVAL TO VERIFY PROPER FUNCTIONING CONDITION OF DEVICE. UPON REINSTALLATION CONTRACTOR SHALL TEST DEVICE TO ENSURE CONTINUED FUNCTIONALITY.



1 **TECHNOLOGY FLOOR PLAN**
Scale: 1/16" = 1'-0"

Salas O'Brien
Houston
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Coleman Partners ARCHITECTS cparch.com

OWNER
SPRING ISD
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ARCHITECT
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T. 972-427-1222

ARCHITECT
COLEMAN PARTNERS ARCHITECTS
T. 225-387-4414

CIVIL/LANDSCAPING
BROOKS & SPARKS
T. 281-578-9566

STRUCTURAL
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T. 713-337-8881

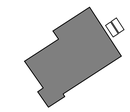
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SALAS O'BRIEN
T. 281-664-1900

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