Project No. 25-0056.00

October 8, 2025



10/08/2025

ADDENDUM NO. 1
TO THE
DRAWINGS AND PROJECT MANUAL
FOR
NORTH SHORE MULTI-USE INDOOR FACILITY
GALENA PARK INDEPENDENT SCHOOL DISTRICT
HOUSTON, TEXAS

VLK
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Houston, TX 77070
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1.1 GENERAL

A. This addendum modifies the drawings and project manual, dated October 1, 2025, as noted within and shall become part of the Contract Documents.

B. Each holder of proposal documents registered with the Architect will receive a copy of the addendum. Each prime proposer is responsible for distribution of information conveyed by this addendum to its sub-proposers and suppliers.

C. Proposers shall acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject proposer to disqualification.

1.2 DOCUMENT - OWNER'S COMPETITIVE SEALED PROPOSAL DOCUMENTS - CSP # 25-603, PROJECT # 1001

A. Page 7; delete "tquong@vlkarchitects.com" in its entirety and insert the following correct e-mail address "tquang@vlkarchitects.com".

B. Page 26; delete "tquong@vlkarchitects.com" in its entirety and insert the following correct e-mail address "tquang@vlkarchitects.com".

1.3 SECTION 01 21 00 - ALLOWANCES

A. Delete this Section in its entirety and insert attached revised Section.

1.4 STRUCTURAL ADDENDUM ITEMS

A. Attached document by Matrix Structural shall hereby become a part of this addendum.

1.5 REVISED DRAWINGS

A. Sheet Nos. INDEX, C0.00, C1.00, C2.00, C2.10, C3.00, C4.00, C5.00, C6.00, C7.00, C8.00, C9.00, C10.00, C11.00, C12.00, C13.00, C14.00, A2.11B, A2.11C, A2.12B, A2.42, A2.59, A3.01, A3.03, A3.04, A3.06, A3.21, A3.23, A3.31, A4.11, A4.31, A4.32, A4.33, A4.41, A6.11A, A6.31, A7.21, A9.01, A9.11A, A9.11B, A9.11C, A9.11D, A9.21, A9.22, S1.02, S2.01B, S2.11B, S3.03, S5.01, P1.01A, P1.01A.1, P2.02A, P2.03B, P3.01, P3.02A, P3.02A.1, P3.03B, P5.02, P6.01, M2.03A, M2.04B, M2.06C, M2.06C.1, M2.08D, M2.10, M3.01, M3.02, M4.01, M5.03, M6.01, E0.00, E0.01, E0.02A, E0.03A, E1.01A, E1.02B, E2.02A, E2.03B, E2.04C, E2.04C.1, E2.05D, E3.02A, E3.05D E3.07A, E3.08B, E3.10D, E4.01, E4.02, E4.03, E5.01, E5.02, E5.03, E5.05, DW-100.1, DW-100.2, DW-100.3, DW-100.5, DW-100.6, DW-200.1, DW-200.2, DW-200.3, DW-400.1, DW-500.1, dated October 8, 2025 and attached hereto, are revised drawings and are hereby made a part of this addendum.

1.6 NEW DRAWINGS

A. Sheet Nos. E3.09C.1 and DW-300.1, dated October 8, 2025, attached hereto, are new drawings and are hereby made a part of this addendum.

END OF ADDENDUM NO. 1

North Shore Multi-Use Indoor Facility
Galena Park ISD
Houston, Texas

October 8, 2025

STRUCTURAL ADDENDUM NO. 1 ITEMS

1. SHEET S1.02 - ABBREVIATIONS, SYMBOLS, AND SHEET INDEX

A. Deflection limit on point #4 of PEMB section for PEMB frames updated

B. CMU type updated to normal weight on point #2 of concrete masonry section of general noes

2. SHEET S2.01B – FOUNDATION PLAN - UNIT B

A. Pier sizes on gridlines 0.5, 2, 3, 4, 5, 6, 7, 9 & 9/D.9 updated

B. Cantilever grade beam sizes updated on gridlines 3, 4, 5, 6, 7 & 9

3. SHEET S2.11B – MEZZANINE FRAMING PLAN – UNIT B

A. Mezzanine framing has been updated to include two additional beams as part of the crane post design

4. SHEET S3.03 – FOUNDATION DETAILS

A. Grade beam sizes and reinforcement updated on detail 20/S3.03

5. SHEET S5.01 – FLOOR DETAILS

A. Detail 3 added on the sheet.

END OF MATRIX STRUCTURAL ENGINEER'S ADDENDUM ITEMS

Matrix Structural Engineers
TBPE Firm Registration No. F-2640

STATE OF TEXAS
KHALIL TABAJA
117127
LICENSED
PROFESSIONAL ENGINEER
10/08/2025

Havish V Reddy
Graduate Engineer
Matrix Structural Engineers

SECTION 01 21 00

ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Administrative and procedural requirements governing allowances.
   1. Certain materials and equipment are specified in the contract documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by change order.

B. Related Requirements:
   1. General Conditions of the Contract for Construction.
   2. Section 01 22 00 - Unit Prices; procedures for using unit prices.
   3. Section 01 32 16 - Construction Progress Schedules: Product delivery and installation dates.
   4. Individual Specifications Sections Listed Under Schedule of Allowances: Specification of products and installation under allowances.

1.2 COSTS INCLUDED IN ALLOWANCES

A. Cost of product to Contractor or subcontractor, less applicable trade discounts.

B. Delivery to site.

C. Applicable taxes.

1.3 CONTRACTOR COSTS INCLUDED IN CONTRACT SUM

A. Products handling at site, including unloading, uncrating and storage.

B. Protection of products from elements and from damage.

C. Labor for installation and finishing.

D. Other expenses required to complete installation.

E. Contractor overhead and profit.

1.4 ADJUSTMENT OF COSTS

A. Should the net cost be more or less than the specified amount of the allowance, the contract sum will be adjusted accordingly by change order.

B. Submit any claims for anticipated additional costs at the site, or other expenses caused by the selection under the allowance, prior to execution of the work.

C. Submit documentation for actual additional costs at the site, or other expenses caused by the selection under the allowance, prior to execution of the work.

D. Failure to submit claims within the designated time will constitute a waiver of claims for additional costs.

1.5 ARCHITECT RESPONSIBILITIES

A. Consult with Contractor in consideration of products, suppliers and installers.

B. Select products, obtain Owner's written decision, and transmit full information to Contractor as follows
   1. Manufacturer, product, model or catalog number, accessories, attachments and finishes.
   2. Supplier and installer as applicable.

3. Cost to Contractor, delivered to site (and installed, if so specified).

1.6 CONTRACTOR RESPONSIBILITIES

A. At the earliest practical date after award of the contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the work.

B. Assist Architect in determining suppliers; and installers; obtain proposals when requested.

C. Make recommendations for Architect consideration.

D. Promptly notify Architect of any reasonable objections against supplier or installer.

E. On notification of selection execute purchase agreement with designated supplier and installer.

F. Arrange for and process shop drawings, product data and samples.

G. Arrange for delivery. Promptly inspect products upon delivery for completeness, damage and defects. Submit claims for transportation damage.

H. Install, adjust and finish products.

I. Provide warranties for products and installation.

1.7 CORRELATION WITH CONTRACTOR SUBMITTALS

A. Schedule shop drawings, product data, samples and delivery dates, in progress schedule for products selected under allowances.

PART 2 - PRODUCTS – Not used.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate allowance work with related work to ensure proper integration and interface.

3.3 SCHEDULE OF ALLOWANCES

A. Allowance No. 1: Allow the lump sum of $ $960,000.00 Owner’s Contingency for the changes requested by the Owner.

B. Allowance No. 2: Allow the lump sum of $15,000.00 for post-construction Texas Accessibility Standards (TAS) inspection compliance.

C. Allowance No. 3: Allow the lump sum of $100,000.00 for Super Graphics.

END OF SECTION

North Shore Multi-Use Indoor Facility

GALENA PARK ISD

HOUSTON, TEXAS

ABBREVIATIONS

A

AFF	ABOVE FINISH FLOOR
ACT	ACOUSTICAL CEILING TILE
ADDL	ADDITIONAL
AB	AIR BARRIER
ACM	ALUMINUM COMPOSITE PANEL
ADA	AMERICANS WITH DISABILITIES ACT
AL/ALUM	ALUMINUM
APPROX	APPROXIMATE OR APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL

B

BD	BOARD
BOW	BOTTOM OF WALL
BUR	BUILT-UP ROOFING
BLDG	BUILDING

C

℄	CENTER LINE
CR	CLASSROOM
CFS	COLD-FORMED STEEL
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CM	CONSTRUCTION MANAGER
CONT	CONTINUOUS
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
COORD	COORDINATE
CORR	CORRIDOR

D

DIA	DIAMETER
DO	DOOR OPENING
DN	DOWN
DS	DOWNSPOUT

E

EA	EACH
EW	EACH WAY
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
ELEV	ELEVATION
EQ	EQUAL
EQPT	EQUIPMENT
EXIST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
EIFS	EXTERIOR INSULATION & FINISH SYSTEM

F

FT	FEET or FOOT
FRP	FIBERGLASS REINFORCED PLASTIC
FV	FIELD-VERIFY
FIN	FINISH
FF	FINISH FLOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FHC	FIRE HOSE CABINET
FHCS	FLAT-HEAD COUNTERSUNK
FL	FLOOR
FD	FLOOR DRAIN
FLR	FLUORESCENT

G / H

GALV	GALVANIZED
GA	GAGE
GC	GENERAL CONTRACTOR
GO	GLAZED OPENING
GYP	GYPSUM
HT	HEIGHT
HP	HIGH POINT
HM	HOLLOW METAL
HORZ	HORIZONTAL
HB	HORIZONTAL BLINDS
HDG	HOT-DIP GALVANIZED
HR	HOUR

I / J / K

ID	INSIDE DIAMETER
INSUL	INSULATION
IFP	INTERACTIVE FLAT PANEL
IMB	INTERACTIVE MARKERBOARD
INT	INTERIOR
IBC	INTERNATIONAL BUILDING CODE

L

LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LVT	LUXURY VINYL TILE

M

MFR	MANUFACTURER
MFG	MANUFACTURING
MB	MARKER BOARD
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANICAL

M (CONT.)

MOD BIT	MODIFIED BITUMEN
MULL	MULLION
MEP	MECHANICAL-ELECTRICAL-PLUMBING
MCM	METAL COMPOSITE MATERIAL
MIN.	MINIMUM
MISC	MISCELLANEOUS

N

NOM	NOMINAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. / #	NUMBER

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP HAND	OPPOSITE HAND
OH	OVERHEAD
OFCI	OWNER-FURNISHED, CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED, OWNER INSTALLED

P / Q

PR	PAIR
P.LAM.	PLASTIC LAMINATE
PLT	PLATE
PLMB	PLUMBING
PT	POINT
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PREFAB	PREFABRICATED
PROJ	PROJECTOR or PROJECTION
QT	QUARRY TILE

R

R.	RADIUS
REBAR	REINFORCING BAR
REF.	REFERENCE or REFER TO
RCP	REFLECTED CEILING PLAN
RE:	REGARDING
REFG	REFRIGERATOR
REINF	REINFORCE or REINFORCING
REQD	REQUIRED
R.	RISER (STAIR)
	ROLLING WINDOW SHADES
RD	ROOF DRAIN
RO	ROUGH OPENING

S

SIM.	SIMILAR
SC	SOLID CORE
SAB	SOUND ATTENUATION BLANKET
SAFB	SOUND ATTENUATION FIRE BLANKET
STC	SOUND TRANSMISSION CLASS
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SS	STAINLESS STEEL
STRUC.	STRUCTURAL
SUSP.	SUSPENDED

T

TB	TACKBOARD
TS	TACKSTRIP
TW	TACK WALL
TC	TEACHER'S CABINET
TAS	TEXAS ACCESSIBILITY STANDARDS
T.	TREAD (STAIR)
T&B	TOP & BOTTOM
TO.	TOP OF
TC	TOP OF CURB
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL

U / V

U/C	UNDER COUNTER
U.L.	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING

W / X / Y / Z

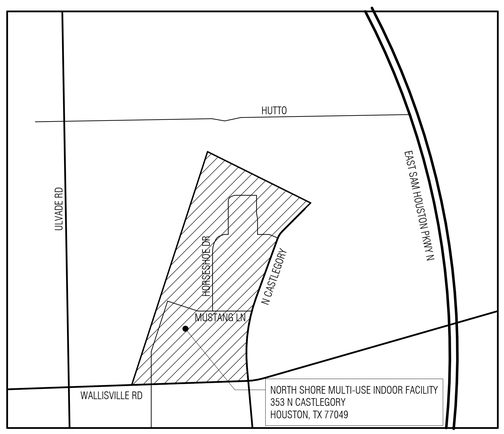
WC	WATER CLOSET
WRB	WATER-RESISTIVE BARRIER
WT	WEIGHT
W	WIDE
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND

ROOM NAME 101	ROOM NAME & NUMBER	SFX	ALUMINUM-FRAMED GLAZED OPENING SYSTEM
101	DOOR NUMBER	SFX	HOLLOW METAL-FRAMED GLAZED OPENING SYSTEM
AC	ACCESS CONTROL	X1	PARTITION TYPE
X	SIGNAGE TAG	X1	TOILET ACCESSORY
HB	HORIZONTAL BLINDS	X1	SPECIALTY EQUIPMENT
1	DEMO/PLAN NOTE		
XXX-01	ROOF TYPE MARK	XXX-01	FLOOR TYPE MARK
XXX-01	ASSEMBLY TYPE	1t 1'-0"	CEILING TAG
1/ A101	DETAIL SECTION MARKER	X HR	FIRE RESISTANCE TAG
X1	PLUMBING TAG	←C→	FLOOR TRANSITION TAG
1 A101 SIM	BUILDING SECTION MARKER	1 Ref ←Ref A101 →Ref 1 Ref	BUILDING ELEVATION MARKER
1 A101 SIM	WALL SECTION MARKER	1/ A101 Ref	INTERIOR/ CASEWORK ELEVATION MARKER
1 A101 SIM	CALLOUT HEAD	N	PLAN NORTH/ TRUE NORTH MARKER
Name Elevation			DATUM ELEVATION

MATERIAL LEGEND

EARTH	CERAMIC TILE
POROUS FILL	GLASS (LARGE SCALE)
CONCRETE/ GROUT	INSULATION (RIGID FOAM BOARD)
BRICK	INSULATION (EPS FOAM BOARD)
CMU (LARGE SCALE)	INSULATION (BATT/ BLANKET)
MARBLE	INSULATION (SEMI-RIGID BOARD)
METAL (LARGE SCALE)	WOOD, ROUGH (CONTINUOUS)
METAL (SMALL SCALE)	WOOD, ROUGH (BLOCKING)
RESILIENT FLOORING	WOOD, FINISH
ACOUSTICAL TILE	PLYWOOD (LARGE SCALE)
TERRAZZO	FIBER CEMENT PANEL
PLASTER, SAND, GROUT, GYPSUM BOARD	METAL LATH
	GYPSUM BOARD



SITE LOCATION MAP

PROJECT INFORMATION

TDLR PROJECT REGISTRATION NUMBER: TABSXXXXXXXX

APPROXIMATE BUILDING AREAS

GROUND LEVEL AREA.:	92,856 S.F.
UPPER LEVEL AREA.:	1,598 S.F.
TOTAL BLDG AREA.:	94,454 S.F.

LEGAL DESCRIPTION: RES A BLK 1 SENIOR HIGH SCHOOL COMPLEX GALENA PARK ISD NORTHSHORE

BUILDING CONSTRUCTION INFORMATION

TYPE OF CONSTRUCTION (TABLE 601 - IBC):	TYPE II-B
FIRE PROTECTION SYSTEM:	AUTOMATIC SPRINKLER SYSTEM THROUGHOUT

GENERAL NOTES

1. Refer to the CODE-series sheets for Code Information, Design Criteria and Fire Protection Requirements.
2. Verify and document existing dimensions and conditions at the site before beginning construction. Notify the Architect of conflicts or variations prior to commencement of construction.
3. Based on the applicable design criteria, submit Shop Drawings of the proposed pattern of control joints in masonry veneer, CMU, gypsum board, plaster and stucco to the Architect for review and approval prior to construction.
4. In case of discrepancies in or between the Contract Documents, the greater quantity or better quality shall be bid. Clarifications regarding the discrepancies shall be requested from the Architect prior to construction, and the resulting interpretations implemented in accordance with the Contract Documents.

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
COVER, INDEX, CODE	
COVER	COVER
INDEX	INDEX, GENERAL NOTES AND ABBREVIATIONS
CODE1.1	FIRE CODE REVIEW
CODE1.2	FIRE CODE REVIEW - ALTERNATE
CODE2.1	CODE REVIEW
CODE2.2	LIFE SAFETY PLAN
CODE2.3	LIFE SAFETY PLAN - ALTERNATE
CIVIL	
C0.00	COVER SHEET
C1.00	GENERAL NOTES
C2.00	TOPOGRAPHIC SURVEY (1 OF 2)
C2.10	TOPOGRAPHIC SURVEY (2 OF 2)
C3.00	OVERALL SITE LAYOUT PLAN
C4.00	DEMOLITION PLAN
C5.00	SITE DIMENSION PLAN
C6.00	SITE UTILITY PLAN
C7.00	GRADING & DRAINAGE PLAN
C8.00	PAVING PLAN
C9.00	DRAINAGE AREA MAP
C10.00	FIRE ACCESS LANE
C11.00	STORM WATER POLLUTION PREVENTION PLAN
C12.00	STORM WATER POLLUTION PREVENTION DETAILS
C13.00	PAVING AND GRADING DETAILS
1 C14.00	MISCELLANEOUS DETAILS
ARCHITECTURAL	
A0.21	TEXAS ACCESSIBILITY STANDARDS REQUIREMENTS
A1.01	OVERALL DEMO SITE PLAN
A1.11	OVERALL SITE PLAN
A1.21	ENLARGED ARCHITECTURAL SITE PLANS, CANOPY PLANS
A1.22	ENLARGED ARCHITECTURAL SITE PLANS AND DETAILS
A1.31	ARCHITECTURAL SITE DETAILS
A2.01	DEMO FLOOR PLAN - LEVEL ONE - UNIT A
A2.11	ORIENTATION PLAN - LEVEL ONE
A2.11.1	ORIENTATION PLAN - LEVEL ONE - ALTERNATE
A2.11A	FLOOR PLAN - LEVEL ONE - UNIT A
A2.11B	FLOOR PLAN - LEVEL ONE - UNIT B
A2.11C	FLOOR PLAN - LEVEL ONE - UNIT C
A2.11C.1	FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE BID
A2.11D	FLOOR PLAN - LEVEL ONE - UNIT D
A2.11D.1	FLOOR PLAN - LEVEL ONE - UNIT D - ALTERNATE BID
A2.12B	FLOOR PLAN - LEVEL TWO - UNIT B
A2.12B.1	FLOOR PLAN - LEVEL TWO - UNIT B - ALTERNATE
A2.21	PARTITION TYPES
A2.22	PARTITION DETAILS
A2.23	LOCKER DETAILS
A2.31	ENLARGED TOILET PLANS AND ELEVATIONS
A2.38	TYPICAL TOILET ROOM DETAILS, TOILET ACCESSORY LEGEND
A2.39	TYPICAL SHOWER DETAILS
A2.42	ENLARGED CATWALK PLANS & SECTIONS
A2.59	PLAN DETAILS
A2.61	MISCELLANEOUS DETAILS
A3.00	OVERALL EXTERIOR ELEVATIONS
A3.00.1	OVERALL EXTERIOR ELEVATIONS - (ALTERNATE)
A3.01	EXTERIOR ELEVATIONS
A3.02	EXTERIOR ELEVATIONS
A3.03	EXTERIOR ELEVATIONS
A3.04	EXTERIOR ELEVATIONS - (ALTERNATE)
A3.05	EXTERIOR ELEVATIONS - (ALTERNATE)
A3.06	EXTERIOR ELEVATIONS - (RECLAD ALTERNATE)
A3.11	EXTERIOR ELEVATION DETAILS
A3.21	INTERIOR ELEVATIONS
A3.22	INTERIOR ELEVATIONS
A3.23	INTERIOR ELEVATIONS
A3.31	INTERIOR ELEVATION DETAILS
A4.01	BUILDING SECTIONS
A4.02	BUILDING SECTIONS
A4.11	BUILDING ASSEMBLY TYPES
A4.12	BUILDING ASSEMBLY DETAILS
A4.21	WALL SECTIONS
A4.22	WALL SECTIONS
A4.31	WALL ASSEMBLY DETAILS
A4.32	WALL ASSEMBLY DETAILS
A4.33	WALL ASSEMBLY DETAILS
A4.41	FIELD DETAILS
A5.10	DEMO ROOF PLAN
A5.11	OVERALL ROOF PLAN
A5.21	ROOF PLAN - UNIT A
A5.22	ROOF PLAN - UNIT B
A5.23	ROOF PLAN - UNIT C
A5.23.1	ROOF PLAN - UNIT C - ALTERNATE
A5.24	ROOF PLAN - UNIT D
A5.24.1	ROOF PLAN - UNIT D - ALTERNATE
A5.31	ROOF DETAILS
A6.01A	DEMO REFLECTED CEILING PLAN - LEVEL ONE - UNIT A
A6.11A	REFLECTED CEILING PLAN - LEVEL ONE - UNIT A
A6.11B	REFLECTED CEILING PLAN - LEVEL ONE - UNIT B
A6.11C	REFLECTED CEILING PLAN - LEVEL ONE - UNIT C

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
A6.11C.1	REFLECTED CEILING PLAN - LEVEL ONE - UNIT C - ALTERNATE
A6.11D	REFLECTED CEILING PLAN - LEVEL ONE - UNIT D
A6.11D.1	REFLECTED CEILING PLAN - LEVEL ONE - UNIT D - ALTERNATE
A6.12B	REFLECTED CEILING PLAN - LEVEL TWO - UNIT B
A6.31	CEILING DETAILS
A7.01	DOOR SCHEDULE
A7.02	DOOR TYPE ELEVATIONS
A7.21	GLAZING ASSEMBLY ELEVATIONS
A7.22	TRANSLUCENT PANEL ASSEMBLY ELEVATIONS
A7.31	GLAZING ASSEMBLY DETAILS
A9.01	MATERIAL FINISH SCHEDULES
A9.11A	INTERIOR FINISH PLAN - LEVEL ONE - UNIT A
A9.11B	INTERIOR FINISH PLAN - LEVEL ONE - UNIT B
A9.11C	INTERIOR FINISH PLAN - LEVEL ONE - UNIT C
A9.11D	INTERIOR FINISH PLAN - LEVEL ONE - UNIT D
A9.21	ENLARGED INTERIOR FINISH PLANS
A9.22	ENLARGED INTERIOR FINISH PLANS
A9.41A	WAYFINDING PLAN - LEVEL ONE - UNIT A
A9.41B	WAYFINDING PLAN - LEVEL ONE - UNIT B
A9.41C	WAYFINDING PLAN - LEVEL ONE - UNIT C
A9.41C.1	WAYFINDING PLAN - LEVEL ONE - UNIT C - ALTERNATE
A9.41D	WAYFINDING PLAN - LEVEL ONE - UNIT D
A9.41D.1	WAYFINDING PLAN - LEVEL ONE - UNIT D - ALTERNATE
A9.48	WAYFINDING DETAILS
STRUCTURAL	
S1.01	GENERAL NOTES
S1.02	ABBREVIATIONS, SYMBOLS, AND SHEET INDEX
S1.03	3D VIEW
S2.00	FOUNDATION PLAN - OVERALL
S2.01B	FOUNDATION PLAN - UNIT B
S2.02C	FOUNDATION PLAN - UNIT C
S2.02C.1	FOUNDATION PLAN - UNIT C - ALTERNATE BID
S2.03D	FOUNDATION PLAN - UNIT D
S2.10	MEZZANINE FRAMING PLAN - OVERALL
S2.11B	MEZZANINE FRAMING PLAN - UNIT B
S2.11B.1	MEZZANINE FRAMING PLAN - UNIT B ALTERNATE BID
S2.12C	MEZZANINE FRAMING PLAN - UNIT C
S2.20	ROOF FRAMING PLAN - OVERALL
S2.21B	ROOF FRAMING PLAN - UNIT B
S2.22D	ROOF FRAMING PLAN - UNIT D
S3.01	FOUNDATION DETAILS
S3.02	FOUNDATION DETAILS
S3.03	FOUNDATION DETAILS
S3.04	FOUNDATION DETAILS
S4.01	STEEL DETAILS
S4.02	STEEL DETAILS
S4.03	STEEL DETAILS
S5.01	FLOOR DETAILS
S5.02	FLOOR DETAILS
S6.01	ROOF DETAILS
S6.02	ROOF DETAILS
S7.01	CMU DETAILS
S7.02	CMU DETAILS
S7.03	CMU DETAILS
MECHANICAL	
M1.01A	MECHANICAL DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A
M2.01	MECHANICAL FLOOR PLAN - LEVEL ONE - OVERALL
M2.03A	MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT A
M2.04B	MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT B
M2.06C	MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT C
M2.06C.1	MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE
M2.08D	MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT D
M2.10	MECHANICAL ROOF PLAN
M3.01	MECHANICAL ENLARGED PLAN
M3.02	MECHANICAL ENLARGED PLAN
M4.01	MECHANICAL PIPING DIAGRAMS
M5.01	MECHANICAL DETAILS AND LEGENDS
M5.02	MECHANICAL DETAILS
M5.03	MECHANICAL DETAILS
M6.01	MECHANICAL SCHEDULES
ELECTRICAL	
E0.00	ELECTRICAL ESSENTIALS
E0.01	ELECTRICAL DEMOLITION SITE PLAN
E0.02A	ELECTRICAL DEMOLTION LIGHTING PLAN - LEVEL ONE - UNIT A
E0.03A	ELECTRICAL DEMOLTION POWER PLAN - LEVEL ONE - UNIT A
E1.01A	ELECTRICAL SITE PLAN - AREA A
E1.02B	ELECTRICAL SITE PLAN - AREA B
E2.01	ELECTRICAL COMPOSITE PLAN - LEVEL ONE - OVERALL
E2.02A	ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT A
E2.03B	ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT B
E2.04C	ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT C

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
E2.04C.1	ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT C - ALTERNATE
E2.05D	ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT D
E3.02A	ELECTRICAL POWER PLAN - LEVEL ONE - UNIT A
E3.03B	ELECTRICAL POWER PLAN - LEVEL ONE - UNIT B
E3.04C	ELECTRICAL POWER PLAN - LEVEL ONE - UNIT C
E3.05D	ELECTRICAL POWER PLAN - LEVEL ONE - UNIT D
E3.07A	ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT A
E3.08B	ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT B
E3.09C	ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT C
E3.09C.1	ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT C - ALTERNATE
1 E3.10D	ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT D
E4.01	ELECTRICAL ENLARGED PLANS
E4.02	ELECTRICAL ENLARGED PLANS
E4.03	ELECTRICAL ENLARGED PLANS
E5.01	ELECTRICAL ONE-LINE DIAGRAM
E5.02	ELECTRICAL PANEL SCHEDULES
E5.03	ELECTRICAL PANEL SCHEDULES
E5.04	ELECTRICAL DETAILS, AND SCHEDULES
E5.05	ELECTRICAL DETAILS, AND SCHEDULES
PLUMBING	
P1.00	PLUMBING SITE PLAN
P1.01A	PLUMBING DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A
P1.01A.1	PLUMBING DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A - ALTERNATE
P2.02A	PLUMBING UNDERFLOOR PLAN - UNIT A
P2.03B	PLUMBING UNDERFLOOR PLAN - UNIT B
P2.05D	PLUMBING UNDERFLOOR PLAN - UNIT D
P3.01	PLUMBING FLOOR PLAN - LEVEL ONE - OVERALL
P3.02A	PLUMBING FLOOR PLAN - LEVEL ONE - UNIT A
P3.02A.1	PLUMBING FLOOR PLAN - LEVEL ONE - UNIT A - ALTERNATE
P3.03B	PLUMBING FLOOR PLAN - LEVEL ONE - UNIT B
P3.04C	PLUMBING FLOOR PLAN - LEVEL ONE - UNIT C
P3.05D	PLUMBING FLOOR PLAN - LEVEL ONE - UNIT D
P3.06B	PLUMBING FLOOR PLAN - LEVEL TWO - UNIT B
P4.01	PLUMBING ENLARGED FLOOR PLAN
P5.01	PLUMBING DETAILS
P5.02	PLUMBING DETAILS
P6.01	PLUMBING SCHEDULES
TECHNOLOGY	
T0.00	TECHNOLOGY NOTES AND LEGENDS
T1.01A	TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A
T2.01	TECHNOLOGY FLOOR PLAN - LEVEL ONE - OVERALL
T2.02	TECHNOLOGY FLOOR PLAN - LEVEL ONE - OVERALL - ALTERNATE
T2.02A	TECHNOLOGY FLOOR PLAN - LEVEL ONE - UNIT A
T2.03B	TECHNOLOGY FLOOR PLAN - LEVEL ONE - UNIT B
T2.04C	TECHNOLOGY FLOOR PLAN - LEVEL ONE - UNIT C
T2.04C.1	TECHNOLOGY FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE
T2.05D	TECHNOLOGY FLOOR PLAN - LEVEL ONE - UNIT D
T2.06D	TECHNOLOGY FLOOR PLAN - LEVEL TWO - UNIT D
T3.01	TECHNOLOGY ENLARGED PLAN
T5.01	TECHNOLOGY DETAILS
T5.02	TECHNOLOGY DETAILS
T5.03	TECHNOLOGY DETAILS
T5.04	TECHNOLOGY DETAILS
PREFABRICATED	
DW-100.1	FLOOR PLAN - FIRST FLOOR
DW-100.2	FLOOR PLAN - FIRST FLOOR AREA C
DW-100.3	FLOOR PLAN - FIRST FLOOR AREA D
DW-100.4	FLOOR PLAN - FIRST FLOOR AREA B
DW-100.5	FLOOR PLAN - FIRST FLOOR AREA A
DW-100.6	HIGHLIGHTED PLAN LEVEL 1
DW-200.1	ELEVATIONS
DW-200.2	ELEVATIONS
DW-200.3	ELEVATIONS
DW-300.1	CASEWORK ELEVATIONS
DW-400.1	INTERSECTION DETAILS AND DOOR SCHEDULE
1 DW-500.1	WALL DETAILS

Sheet Count: 226

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GALENA PARK ISD
HOUSTON, TEXAS

MONIKA C. CASTILLO — REGISTERED ARCHITECT — 26558 — STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Todd Hangar
Drawn By	VLK

PROJECT NO.

25-0056.00

SHEET TITLE

INDEX, GENERAL NOTES AND ABBREVIATIONS

SHEET NO.

North Shore Multi-Use Indoor Facility

INDEX

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CONSTRUCTION PLAN FOR PRIVATE WATER, SANITARY SEWER, STORM SEWER AND PAVING

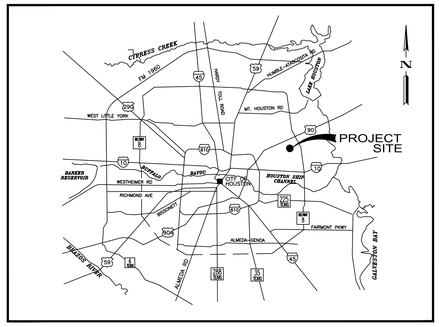
TO SERVE

NORTH SHORE MULTI-USE INDOOR FACILITY"

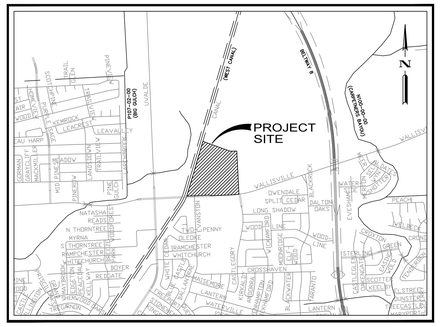
15025 WALLISVILLE ROAD, HOUSTON, TX 77049

(INSIDE HARRIS COUNTY)

JOB No.: 207-25-003-01 DATE: OCTOBER 2025



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

PROJECT ADDRESS:
15025 WALLISVILLE ROAD
HOUSTON, TX 77049

KEY MAP # 457 T
ZIP CODE 77447

SHEET	DESCRIPTION
C0.00	COVER SHEET
C1.00	GENERAL NOTES
C2.00	TOPOGRAPHIC SURVEY (1 OF 2)
C2.10	TOPOGRAPHIC SURVEY (2 OF 2)
C3.00	OVERALL SITE LAYOUT PLAN
C4.00	DEMOLITION PLAN
C5.00	SITE DIMENSION PLAN
C6.00	SITE UTILITY PLAN
C7.00	GRADING & DRAINAGE PLAN
C8.00	PAVING PLAN
C9.00	DRAINAGE AREA MAP
C10.00	FIRE ACCESS LANE
C11.00	STORM WATER POLLUTION PREVENTION PLAN
C12.00	STORM WATER POLLUTION PREVENTION DETAILS
C13.00	PAVING AND GRADING DETAILS
C14.00	MISCELLANEOUS DETAILS

48 HOUR NOTICE:

CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES.
CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ (713-274-3931) OR (public.review@hcpid.org)

STOP - CALL BEFORE YOU DIG!!

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS ONE CALL" AT 1-800-245-4545 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

AUTHORIZATION NOTICE ISSUED BY HARRIS COUNTY ENGINEERING AND PUBLIC INFRASTRUCTURE DEPARTMENT, PERMIT OFFICE, REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES WITHIN HARRIS COUNTY PUBLIC RIGHTS-OF-WAY.

CONTRACTOR AND OWNER SHALL COMPLY WITH THE REGULATIONS OF CITY OF HOUSTON AND HARRIS COUNTY, TEXAS FOR FLOODPLAIN MANAGEMENT.

HARRIS COUNTY MAY HAVE EXISTING UNDERGROUND / OVERHEAD UTILITIES WITHIN THE PROPOSED PROJECT LIMITS. PLEASE CONTACT THE CALL CENTER AT 713-881-3210, OR SUBMIT A WORK ORDER REQUESTS THROUGH http://www.eng.hctx.net/SignalOut TO OBTAIN FIELD LOCATES.

HARRIS COUNTY MUD 285

1. CONTRACTOR SHALL CONTACT HARRIS COUNTY MUD 285 (DISTRICT OPERATOR, CONTACT: CALVIN BROWNE WITH MUNICIPAL DISTRICT SERVICES, LLC AT 281-290-3133) AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION. ONLY THE DISTRICT'S OPERATOR CAN OPERATE THE DISTRICT'S WATER DISTRIBUTION FACILITIES. ALL WATER TAPS ARE TO BE MADE BY AND THE METER SHALL BE INSTALLED BY THE DISTRICT'S OPERATOR. ALL SANITARY SEWER CONNECTIONS SHALL BE INSPECTED BY THE DISTRICT'S OPERATOR. ALL CONSTRUCTION SHALL COMPLY WITH THE DISTRICT'S RATE ORDER.

2. CONTRACTOR SHALL CONTACT THE DISTRICT ENGINEER'S CONSTRUCTION OFFICE, MARK H. SWANSON WITH LJA ENGINEERING AND SURVEYING, INC. AT 713-953-5205 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO ANY FINAL INSPECTIONS.

WARNING:

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

ADICO
CONSULTING ENGINEERS
205 E. EDGEWOOD DRIVE, FRIENDSWOOD, TX 77546
PHONE: 832-895-1093 WWW.ADICO-LLC.COM
TBPE FIRM NO. 16423

100% CONSTRUCTION DOCUMENTS REVIEW

STATE OF TEXAS
NANTHAVONGNGAMSY
99284
LICENSED
PROFESSIONAL ENGINEER
10-01-2025

SHEET NO. C0.00

GENERAL CONSTRUCTION NOTES

GENERAL NOTES:

1. THESE PLANS WERE PREPARED TO MEET OR EXCEED CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, HARRIS COUNTY RULES AND REGULATIONS AS AMENDED.
2. WATER LINES, WASTEWATER COLLECTION SYSTEMS, STORM DRAINAGE SYSTEMS AND STREET PAVING ARE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DOCUMENTS – "DESIGN MANUAL, STANDARD CONSTRUCTION SPECIFICATIONS, AND DETAILS FOR WASTEWATER COLLECTIONS SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" PUBLISHED BY CITY OF HOUSTON AND HARRIS COUNTY'S ENGINEERING DEPARTMENT, CURRENT LATEST EDITION.
3. ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713–223–4567 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL MAKE ALL REPAIRS TO EXISTING UTILITIES WITH HARRIS COUNTY, ENGINEERING DEPARTMENT'S "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NO COST TO HARRIS COUNTY.
5. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY'S ROAD RIGHTS–OF–WAY.
6. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO COMMENCING CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE COUNTY ENGINEER, PUBLIC IMPROVEMENTS DEPARTMENT – PERMITS DIVISION AT (713) 274–3931 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING THE CONSTRUCTION.
8. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
10. AUTHORIZATION NOTICE ISSUED BY THE HARRIS COUNTY PUBLIC IMPROVEMENTS DEPARTMENT – PERMIT DIVISION, REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT HAND TURN LANES WITHIN HARRIS COUNTY RIGHT–OF–WAY. CONTACT HARRIS COUNTY PERMIT OFFICE AT (713) 274–3931.
11. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
12. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.
13. CONTRACTOR SHALL PREPARE A SET OF "AS–BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED ENGINEER PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO THE CITY ENGINEER.
14. MAINTAIN A MINIMUM OF 12–INCHES (12") CLEARANCE BETWEEN ALL UTILITIES, UNLESS OTHERWISE NOTED ON THE PLANS.
15. ALL UTILITIES WITHIN EASEMENTS SHALL BE LOCATED IN ACCORDANCE WITH STANDARDS OUTLINED BY THE MOST CURRENT UTILITY COORDINATING COMMITTEE DRAWINGS.
16. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY THE REGULATIONS OF HARRIS COUNTY, TEXAS AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
17. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS. IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
18. SEWER MATERIALS, CONSTRUCTION, AND TESTING TO BE IN ACCORDANCE WITH HARRIS COUNTY SPECIFICATIONS STANDARDS, LATEST PRINTING OF AMENDMENTS THERETO.
19. FLOW LINE ELEVATIONS AT MANHOLES ARE BASED ON DISTANCE BETWEEN MANHOLES AND NOT CENTERLINE RIGHT–OF–WAY STATIONING.
20. NATURAL GROUND ON PLAN AND PROFILE SHEETS ARE FOR CENTERLINE OF ROADWAY ONLY, UNLESS OTHERWISE NOTED ON THE PLANS.
21. ALL EXCAVATION UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN TWO FEET BEHIND BACK OF ALL CURBS TO BE BACKFILLED WITH 1–1/2 SACKS CEMENT PER CUBIC YARD CEMENT STABILIZED SAND TO BOTTOM OF SUBGRADE. THE REMAINING BACKFILL TO BE MADE WITH COMPACTED–SELECT MATERIALS PLACED IN 8–INCH MAXIMUM LAYERS AND COMPACTED TO A DENSITY OF 95% STANDARD PROCTOR.
22. ALL PROPOSED PIPE STUB–OUTS ARE TO BE PLUGGED. PLUG STORM SEWER PIPES WITH 8–INCH BRICK WALL; SANITARY SEWERS AND WATERLINES WITH PLUG AND CLAMP.
23. CONTRACTOR TO REMOVE PLUGS AND CONNECT TO EXISTING UTILITY LINES AS INDICATED ON PLANS.
24. UNLESS OTHERWISE NOTED ON PLANS, WHERE SANITARY AND/OR STORM SEWER MANHOLES ARE LOCATED WITHIN THE STREET R.O.W. OR EASEMENTS, CONTRACTOR SHALL SET RIM ELEVATIONS 3 TO 6 INCHES ABOVE FINISHED GROUND ELEVATION. FINISHED GROUND ELEVATION TO BE A STRAIGHT LINE FROM NATURAL GROUND AT PROPERTY LINE TO TOP OF CURB. UTILITY CONTRACTOR TO MAKE FINAL RIM ELEVATION ADJUSTMENTS SUBSEQUENT TO FINAL LOT GRADING.
25. ALL BASES FOR SANITARY AND STORM SEWER MANHOLES TO BE REINFORCED WITH #4 BARS AT 12–INCH C–C EACH WAY OR 6x6x6 GAUGE WELDED WIRE MESH. CONCRETE FOR SANITARY MANHOLES BASES TO BE 6 SACK CEMENT/C.Y. CONCRETE AND FOR STORM MANHOLES IT SHALL BE 5 SACKS CEMENT/C.Y.
26. FILL TO BE PLACED IN MAXIMUM 8–INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER ASTM D–698.
27. ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE, AND DEBRIS SHALL BE DISPOSED OF OFF–SITE BY THE CONTRACTOR. NO DIRECT PAYMENT WILL BE MADE, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE VARIOUS BID ITEMS.
28. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
29. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY HARRIS COUNTY SUBSEQUENT TO THE PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
30. CONTRACTOR IS HEREBY INFORMED THAT ALL TRENCHING AND SHORING WILL BE DONE IN STRICT ACCORDANCE WITH THE LATEST OSHA STANDARDS.
31. TRAFFIC CONTROL CONSTRUCTION WARNING SIGNALS AND FLAGMEN, WHEN NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY. OPERATION ON ROADS SHALL BE PERFORMED IN SUCH A MANNER THAT OPERATING EQUIPMENT AND EXCAVATED MATERIAL ARE KEPT OFF THE PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY TRAFFIC CONTROL DEVICES AS PER THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
32. BORE PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL HARRIS COUNTY RULES AND REGULATIONS REGARDING SIZE, LOCATION, DEPTH, BACKFILL AND SHEETING REQUIREMENTS.
33. ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
34. ALL DISTURBED AREAS WITHIN THE RIGHT–OF–WAY SHALL BE RESTORED TO ITS EXISTING CONDITION BY HYDROMULCH SEEDING AS PER THE SATISFACTION OF HARRIS COUNTY, ENGINEER AND THE OWNER.
35. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT MARKED THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX FEET (6') OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY.
36. ANY DEBRIS, ROOTS, ETC. LEFT OVER FROM THE SITE CLEARING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE & DISPOSE.

WATER LINE NOTES:

1. FITTINGS TO BE DUCTILE IRON (ALL BELL) AND WRAPPED WITH POLYETHYLENE IN ACCORDANCE WITH CITY OF HOUSTON AND HCMUD MEETING REQUIREMENTS OF AWWA C104 AND BITUMASTIC COATING. INCLUDING PRICE OF FITTINGS IN UNIT PRICE BID PER LINEAR FOOT OF WATERLINES IN APPROPRIATE SIZES.
2. CONTRACTOR TO ALLOW A MINIMUM 12–INCH (12") VERTICAL CLEARANCE BETWEEN PROPOSED WATERLINES AND OTHER EXISTING OR PROPOSED UTILITIES UNLESS OTHERWISE NOTED.
3. VALVES TO BE LOCATED AT END OF CURB RETURNS NEAR INTERSECTIONS UNLESS OTHERWISE SHOWN ON PLANS. CONSTRUCT WATERLINES WITH ONE JOINT OF PIPE BEYOND VALVES AND PLUG FOR FUTURE LINES UNLESS DISTANCES SHOWN ON PLANS INDICATE OTHERWISE.
4. VALVES ARE TO BE RESILIENT SEATED AND EQUIPPED WITH OPERATING NUT EXTENSIONS TO WITHIN 2 FEET (2') OF NATURAL GROUND. OPERATE COUNTER–CLOCKWISE TO OPEN.
5. ALL WATERLINE VALVE BOXES TO BE ADJUSTABLE TYPE.
6. ALL WATERLINES SHALL HAVE A MINIMUM FOUR FEET (4') OF COVER TO THE TOP OF CURB OR AS SHOWN ON PLANS.
7. ALL WATERLINES, AFTER INSTALLATION AND HYDROSTATIC TESTING ARE COMPLETE, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATIONS C–651 AND THEN FLUSHED BEFORE BEING PLACED INTO SERVICE. WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGIC ANALYSIS AND LINES WILL NOT BE ACCEPTED FOR SERVICE UNTIL WATER SAMPLES MEET THE REQUIREMENTS OF THE TEXAS STATE DEPARTMENT OF HEALTH AND HARRIS COUNTY. HARRIS COUNTY TO ADMINISTER TESTING AT CONTRACTOR'S EXPENSE.
8. ALL WATERLINES TO BE POLYVINYL CHLORIDE (PVC) AWWA C–900, WITH BELL AND SPIGOT JOINTS. SIX INCH (6") AND LARGER PIPES SHALL BE DR 18 – PRESSURE CLASS 235. FOUR INCH (4") PIPES SHALL BE DR 14 – CLASS 200. ALL PVC WATERLINES SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL. CONTRACTOR SHALL USE ONLY NEW PIPE DURING CONSTRUCTION.
9. ALL WATERLINES SHALL BE ENCASED IN BANK SAND AS PER BEDDING AND BACKFILL DETAIL. COST OF BANK SAND TO BE INCLUDED IN UNIT PRICE OF WATERLINE.
10. WATERLINE TRENCHES UNDER PAVEMENT OR WITHIN TWO FEET OF PROPOSED CURBS SHALL BE ENCASED WITH BANK SAND TO SIX INCHES (6") OVER PIPE AND BACKFILLED WITH CEMENT STABILIZED SAND (1–1/2 SACK/CUBIC YARD) UP TO BOTTOM OF SUBGRADE. COST OF BACKFILL SHALL NOT BE PAID DIRECTLY BUT SHALL BE INCLUDED IN UNIT PRICE OF WATERLINE.
11. MAINTAIN MINIMUM 9–FOOT HORIZONTAL CLEARANCE BETWEEN OUTSIDE OF SANITARY SEWER MANHOLE AND WATERLINE.
12. CENTER OF FIRE HYDRANT TO BE LOCATED THREE FEET (3') FROM BACK OF CURB WITH CENTER LINE OF STEAMER NOZZLE EIGHTEEN INCHES (18") ABOVE FINISHED GRADE, UNLESS OTHERWISE SHOWN.
13. ALL FIRE HYDRANTS TO BE STANDARD FIRE HYDRANT (MUELLER A–423).
14. FIRE HYDRANTS TO BE PAINTED RED WITH WHITE BONNETS.
15. WATERLINE SHALL BE CONSTRUCTED SUCH THAT ALL CROSSES AND TEES WILL NOT BE LOCATED UNDER PROPOSED OR FUTURE PAVING.
16. CONTRACTOR TO TURN FIRE HYDRANTS AND MAKE ALL FINAL ADJUSTMENTS AFTER COMPLETION OF PAVING.
17. TAPPING SLEEVE AND VALVE SHALL BE FULL BODY STAINLESS STEEL.
18. ALL TEES, ELBOWS, BENDS, AND END PLUGS SHALL INCLUDE RESTRAINT OF FITTINGS. RESTRAINT MAY BE BY MEANS OF THRUST BLOCKS OR RESTRAINED JOINT PIPE (OF APPROVED MANUFACTURER). IF RESTRAINED JOINT PIPE IS USED, ALL PIPES LESS THAN 12–INCHES (12") DIAMETER SHALL INCLUDE A MINIMUM OF TWO (2) JOINTS OF RESTRAINED JOINT PIPE ON EACH SIDE OF THE FITTING. ALL PIPES EQUAL TO OR GREATER THAN 12–INCHES (12") IN DIAMETER SHALL INCLUDE A MINIMUM OF THREE (3) JOINTS OF RESTRAINED JOINT PIPE ON EACH SIDE OF THE FITTING.

PAVING CONSTRUCTION NOTES:

1. AUTHORIZATION NOTICE ISSUED BY HARRIS COUNTY PUBLIC INFRASTRUCTURE ENGINEERING DEPARTMENT PERMIT OFFICE REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES WITHIN HARRIS COUNTY FLOOD CONTROL DISTRICT AND HARRIS COUNTY RIGHTS–OF–WAY. CONTACT HARRIS COUNTY PERMIT OFFICE AT 713–274–3931.
2. WATER, SANITARY AND STORM SEWER ARE SHOWN FOR INFORMATION ONLY AND ARE NOT INCLUDED IN THE PAVING CONTRACT.
3. PAVING IN PUBLIC RIGHT–OF–WAY SHALL BE IN ACCORDANCE WITH HARRIS COUNTY STANDARD, AND THESE PLANS AND SPECIFICATIONS.
4. ALL ROAD WIDTH, CURB RADII, AND CURB ALIGNMENT SHOWN INDICATE BACK OF CURB. T.C. INDICATES TOP OF CURB. T.P. INDICATES TOP OF PAVEMENT.
5. GUIDELINES SET FORTH IN THE 1980 "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED. THERE WILL BE NO SEPARATE PAYMENT FOR THIS ITEM.
6. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
7. THE SUBGRADE IS TO BE SIX INCHES (6") DEEP SCARIFIED, LIME STABILIZED AS DETERMINED BY LAB TESTS, BUT NOT LESS THAN 5%, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D–698.
8. SIX INCH (6") CONCRETE PAVEMENT TO BE 5.0 SACK MIX. REINFORCING STEEL TO CONFORM TO ASTM A–615, GRADE 40. PROVIDE MINIMUM TEN INCH (10") LAPS, MINIMUM #4 REBARS.
9. AT EACH FLUSHING VALVE LOCATION, THE CONTRACTOR SHALL SET ONE BLUE REFLECTORIZED BUTTON SIX INCHES (6") OFF THE CENTERLINE OF PAVING ON THE FLUSHING VALVE SIDE (NO SEPARATE PAY).
10. WHERE PROPOSED PAVEMENT IS TO MATCH EXISTING PAVEMENT, EXISTING REBARS OR DOWELS PROJECTING FROM PAVEMENT TO BE CLEANED AND TIED INTO PROPOSED PAVEMENT. REMOVE EXISTING BARRICADES. NO SEPARATE PAY.
11. WHERE PROPOSED PAVEMENT ENDS AT A CONSTRUCTION JOINT, EXTEND REBARS EIGHTEEN INCHES (18"), COAT WITH ASPHALT AND WRAP WITH BURLAP; AT EXPANSION JOINTS, EXTEND DOWEL FIVE INCHES (5"), COAT AND WRAP SAME AS CONSTRUCTION JOINT. NO SEPARATE PAY.
12. ALL CURB RETURN RADII SHALL BE 25 FEET UNLESS NOTED OTHERWISE.
13. NECESSARY TESTING OF SUBGRADE, FLEXIBLE BASE PAVEMENT AND CONCRETE PAVEMENT, TO PROVE THAT THESE ITEMS MEET REQUIREMENTS, SHALL BE DONE BY A COMMERCIAL TESTING LABORATORY APPROVED BY THE CITY ENGINEER AND OWNER.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANNING OF TRAFFIC DETOURS THROUGHOUT ALL CONSTRUCT PHASES AND WILL BE REQUIRED TO SUBMIT TO THE ENGINEER THE DETOUR PLANS NOT LESS THAN FOURTEEN (14) DAYS BEFORE DETOUR CONSTRUCTION. THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE FOLLOWED.
15. OWNER'S LABORATORY SERVICES TEST REQUIREMENTS FOR LIME STABILIZED SUBGRADE, CONCRETE PAVEMENT CONSTRUCTION.

SIDEWALKS AND DRIVEWAYS ON CURBED TYPE STREETS:

1. PROPOSED DRIVEWAY, SIDEWALK, CURB, GUTTER LINE AND GRADE SHALL MATCH EXISTING STREET.
2. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 4–1/2" SACK CEMENT PER CUBIC YARD, 4–1/2" INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. 3 FOR ADDITIONAL INFORMATION AND DETAILS.
3. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 5 SACK CEMENT PER CUBIC YARD, 7 INCHES THICK, FROM PROPOSED SAW CUT TO RIGHT–OF–WAY LINE (PROPERTY LINE).
4. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED SPACED AT 24 INCHES C.C., EACH WAY, WITH 10 INCHES MINIMUM LAP (6"x12" W5xW4 AS ALTERNATE) FROM PROPOSED SAW CUT TO RIGHT–OF–WAY LINE.
5. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 8 INCHES.
6. PROPOSED GUTTER LINE IS TO BE MAINTAINED AT FACE OF EXISTING CURB.
7. SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY.
8. SAW CUT EXISTING PAVEMENT A MINIMUM OF 12 INCHES AWAY FROM FACE OF CURB (GUTTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.
9. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO RIGHT–OF–WAY LINE, COMPACT TO 95% OF STANDARD PROCTOR DENSITY (+/– 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
10. IF MORE THAN ONE PROPOSED DRIVEWAY IS BUILT ON THE SAME PROPERTY, SAID DRIVEWAYS SHALL BE SEPARATED BY A MINIMUM DISTANCE OF 20 FEET (ROADWAYS WITH CURBS AND SIDEWALKS).
11. REINFORCING STEEL TO BE ELEVATED A MINIMUM OF 3" ABOVE SUBGRADE (3 INCHES MANUFACTURED CHAIRS ARE REQUIRED WITH MAXIMUM SPACING OF 72 INCHES C/C EACH WAY).

STORM SEWER AND DRAINAGE NOTES:

1. STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST HARRIS COUNTY STANDARDS OF CONSTRUCTION WITH ALL AMENDMENTS THERETO, AND THESE PLANS AND SPECIFICATIONS.
2. ALL STORM SEWER PIPES LOCATED UNDER OR WITHIN TWO FEET OF PROPOSED OR FUTURE PAVING SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1–1/2 SACK/CUBIC YARD) UP TO BOTTOM OF SUBGRADE.
3. ALL STORM SEWER PIPES IN THE RIGHT OF WAY TO BE R.C.P. C–76, CLASS III, WITH RUBBER GASKET JOINTS, BEDDED PER HARRIS COUNTY DETAILS, AS APPROPRIATE. PRIVATE STORM SEWER SHALL BE HDPE AND HP STORM (HIGH–PERFORMANCE POLYPROPYLENE), SMOOTH INTERIOR, WATERTIGHT JOINT, UNLESS OTHERWISE NOTED.
4. CATCH BASIN INLETS SHALL BE TYPE "A", CURB INLET SHALL BE B–B INLET UNLESS OTHERWISE NOTED.
5. FIRST STAGE INLET TO BE CONSTRUCTED TO WITHIN APPROXIMATELY ONE FOOT BELOW BOTTOM OF PROPOSED PAVEMENT. COVER WITH TIMBER GRATE.
6. ALL STORM SEWER MANHOLES SHALL BE STANDARD, TYPE "C' UNLESS OTHERWISE NOTED.
7. MANHOLE & INLET COVERS SHALL BE CAST WITH THE LOGO "STORM" AND BE RATED FOR H–20 DESIGN LOADING.
8. CEMENT STABILIZED SAND BEDDING AND/OR BACKFILL FOR INSTALLATION UNDER OR WITHIN ONE FOOT OF PAVEMENT SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF STORM SEWER PIPE.

SANITARY SEWER NOTES:

1. SANITARY SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST CITY OF HOUSTON STANDARDS OF CONSTRUCTION WITH ALL AMENDMENTS THERETO, AND THESE PLANS AND SPECIFICATIONS.
2. SANITARY SEWERS LOCATED UNDER OR WITHIN TWO FEET (2') OF PROPOSED OR FUTURE PAVING SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1–1/2 SACK/CUBIC YARD) UP TO BOTTOM OF SUBGRADE.
3. ALL NEW SANITARY SEWER LINES SHALL BE PLUGGED UNTIL ACCEPTED BY THE DISTRICT ENGINEER.
4. ALL SANITARY SEWERS SHALL BE AIR TESTED AND VIDEOTAPE TELEVISION INSPECTED AS PER CONTRACT SPECIFICATIONS AND CITY OF HOUSTON REQUIREMENTS. CONTRACTOR TO MAKE ANY REPAIRS AS REQUIRED.
5. DEFLECTION TEST: DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI–RIGID PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
6. FLOWLINE ELEVATION ARE BASED ON LENGTHS BETWEEN MANHOLE CENTERS.
7. MANHOLE COVERS SHALL BE CAST WITH THE LOGO "SANITARY" AND BE RATED FOR H–20 DESIGN LOADING.
8. ALL EXPOSED CONCRETE SURFACES INSIDE OF MANHOLES, EXCEPT INVERT, TO BE BITUMASTIC COATED AS PER PLAN AND STANDARD SPECIFICATIONS.
9. ALL SANITARY SEWER PIPES SHALL HAVE BEDDING AND BACKFILL PER PLAN AND STANDARD SPECIFICATION. THE PRICE OF ALL BEDDING AND BACKFILL REQUIRED FOR SANITARY SEWER LINES SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
10. ALL SANITARY SEWER PIPES AND SERVICE CONNECTIONS SHALL BE SDR 26 PVC HEAVY WALL PER ASTM D–2241 AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON STANDARD DRAWINGS. EXCEPTION: WHERE WATERLINE AND SANITARY SEWER CROSS, SANITARY PIPE SHALL BE SDR 26 PVC FROM MANHOLE TO MANHOLE, WITH ONE JOINT CENTERED AT WATER LINE CROSSING.
11. ALL SANITARY CLEANOUT "Y" BRANCHES TO BE CONSTRUCTED THREE FEET (3') MINIMUM BELOW TOP OF CURB.
12. WATERLINE/MANHOLE SEPARATION–UNLESS SANITARY SEWER MANHOLES AND THE CONNECTING SEWER CAN BE MADE COMPLETELY WATERTIGHT AND TESTED FOR NO LEAKAGE, THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET (9') OF HORIZONTAL CLEARANCE FROM AN EXISTING OR PROPOSED WATERLINE.
13. WHERE A NEW SANITARY SEWER FORCE MAIN PARALLELS THE WATER MAIN, THE SANITARY SEWER SHALL BE CONSTRUCTED OF LINED DUCTILE IRON, OR PVC PIPE MEETING AWWA SPECIFICATIONS, HAVING A MINIMUM WORKING PRESSURE RATING OF 150 PSI OR GREATER, AND EQUIPPED WITH PRESSURE TYPE JOINTS. THE WATER MAIN AND SANITARY SEWER SHALL BE SEPARATED BY A MINIMUM VERTICAL DISTANCE OF TWO FEET (2') AND A MINIMUM HORIZONTAL DISTANCE OF FOUR FEET (4'), MEASURED BETWEEN THE NEAREST OUTSIDE DIAMETERS OF THE PIPES, AND THE WATER MAIN SHALL BE LOCATED ABOVE THE SEWER.
14. WHERE A NEW GRAVITY SANITARY SEWER PARALLELS A NEW WATER MAIN THE SANITARY SEWER SHALL BE CONSTRUCTED OF LINED DUCTILE IRON, OR PVC PIPE MEETING AWWA SPECIFICATIONS, OR HAVING NATIONAL SANITARY FOUNDATION APPROVAL FOR USE AS POTABLE WATER PIPE, WITH A PRESSURE RATING FOR BOTH THE PIPE AND THE JOINTS OF GREATER THAN OR EQUAL TO 150 PSI. THE NEW SEWER LINE MAY BE PLACED NO CLOSER THAN TWO FEET (2') VERTICALLY AND FOUR FEET (4') HORIZONTALLY FROM THE WATER LINE, WITH THE SEPARATION DISTANCES MEASURED BETWEEN THE NEAREST OUTSIDE PIPE DIAMETERS. THE SANITARY SEWER SHALL BE INSTALLED AT A LOWER ELEVATION THAN THE WATER LINE.
15. WHERE A NEW SANITARY SEWER CROSSES A WATER LINE AND THAT PORTION OF THE SEWER IS WITHIN NINE FEET (9') OF THE WATER MAIN IS CONSTRUCTED AS DESCRIBED IN NOTE 11 ABOVE, THE SEWER LINE MAY BE PLACED NO CLOSER THAN ONE FOOT (1') FROM THE WATER LINE. THE SEPARATION DISTANCE MUST BE MEASURED BETWEEN THE NEAREST OUTSIDE PIPE DIAMETERS. THE SEWER LINE SHALL BE LOCATED AT A LOWER ELEVATION THAN THE WATER LINE WHEREVER POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATER LINE.
16. SANITARY SEWER MANHOLE COVER SHALL HAVE NO LIFT OR VENT HOLES.
17. WHERE NINE FOOT (9') SEPARATION DISTANCE CANNOT BE ACHIEVED BETWEEN CROSSING SANITARY AND WATER LINES, THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF TEN PERCENT (10%) CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE CEMENT STABILIZED SAND BEDDING SHALL BE A MINIMUM OF SIX INCHES (6") ABOVE AND SIX INCHES (6") BELOW THE SEWER PIPE. THE USE OF BROWN COLORING IN CEMENT STABILIZED SAND FOR WASTEWATER LINE BEDDING IS RECOMMENDED FOR THE IDENTIFICATION OF WASTEWATER FORCE MAINS DURING FUTURE CONSTRUCTION.

AT&T TEXAS/SWBT FACILITIES NOTES:

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 (TEXAS 811) 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 CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT (713) 567–4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR AT&T TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY UTILITY NOTES:

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 PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 967–8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHI

DETAILS

DETAIL 1
"BB" INLET
TC=31.45
FL 12" HDP (S) 26.16

DETAIL 2
STM. SWR. MH.
TR=31.96
FL 60" RCP (W) 23.47
FL 36" RCP (N) 25.49
FL 60" RCP (E) 23.23
FL 36" RCP (SE) 23.85

DETAIL 3
STM. SWR. MH.
TR=31.48
FL 36" RCP (NW) 23.73
FL 12" PVC (SE) 26.98
FL 36" RCP (S) 23.78

DETAIL 4
GRATE INLET
TG=31.38
FL 12" PVC (NW) 27.86

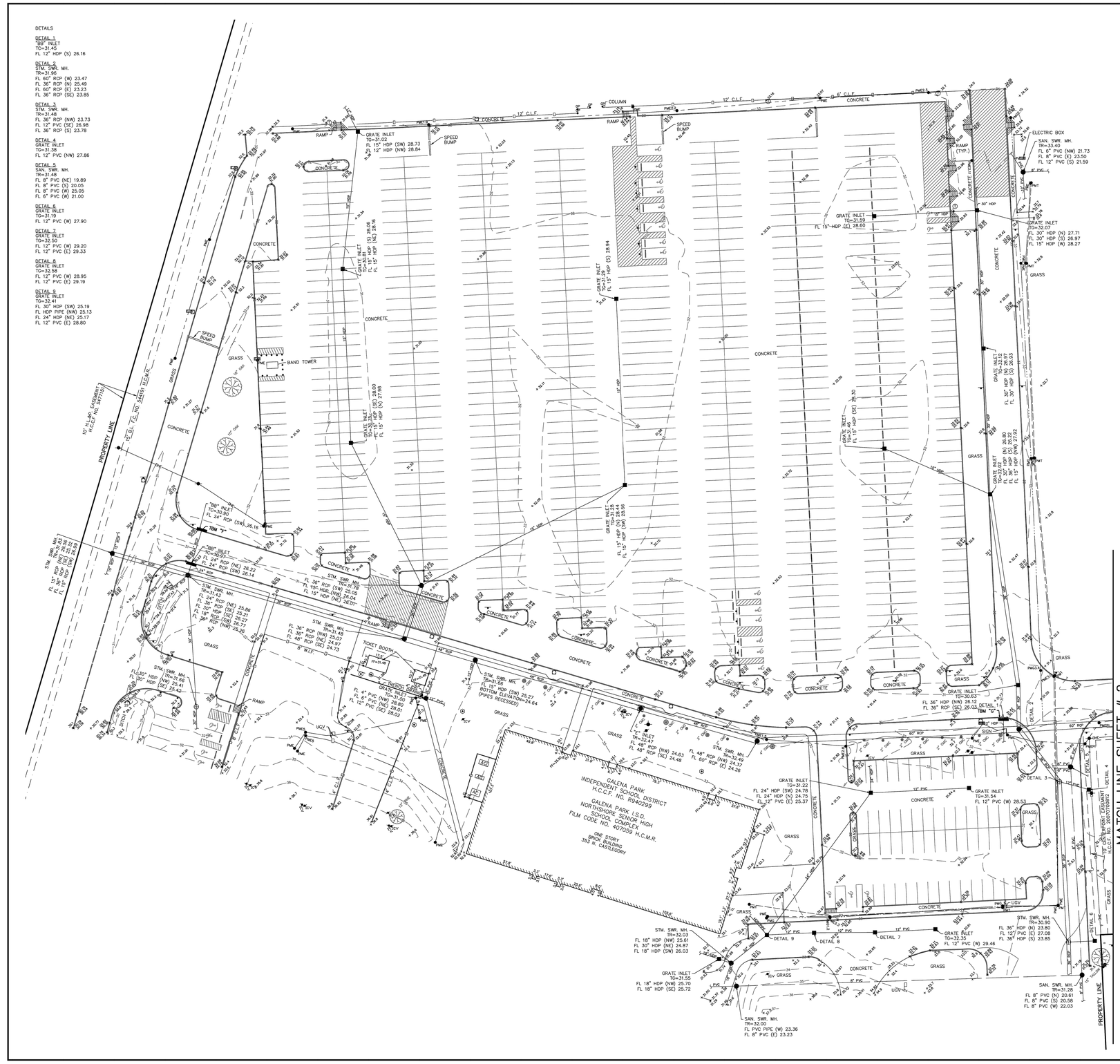
DETAIL 5
SAN. SWR. MH.
TR=31.48
FL 8" PVC (NE) 19.89
FL 8" PVC (S) 20.05
FL 8" PVC (W) 25.05
FL 6" PVC (W) 21.00

DETAIL 6
GRATE INLET
TG=31.19
FL 12" PVC (W) 27.90

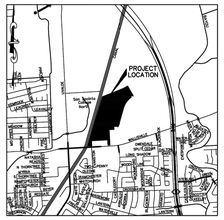
DETAIL 7
GRATE INLET
TG=32.50
FL 12" PVC (W) 29.20
FL 12" PVC (E) 29.33

DETAIL 8
GRATE INLET
TG=32.58
FL 12" PVC (W) 28.95
FL 12" PVC (E) 29.19

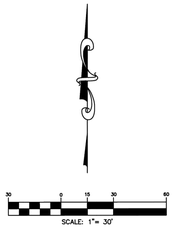
DETAIL 9
GRATE INLET
TG=32.41
FL 30" HDP (SW) 25.19
FL HDP PIPE (NW) 25.13
FL 24" HDP (NE) 25.17
FL 12" PVC (E) 28.80



VICINITY MAP



KEY MAP 457 T&U
SCALE 1" = 3000'



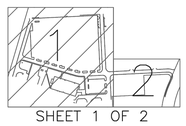
SCALE: 1"= 30'

LEGEND

- AIR CONDITIONING UNIT
- "BB" INLET
- BENCHMARK
- BOLLARD
- CLEANOUT
- "E" INLET
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- GATE POST
- GRATE TOP MANHOLE
- GUY WIRE
- INLET
- IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MANHOLE
- PAINT MARKER (ELECTRIC)
- PAINT MARKER (GAS)
- PAINT MARKER (TELEPHONE)
- PEDESTAL
- POWER POLE
- SIGN
- TRASH CAN
- WATER VALVE
- WHEEL STOP

ABBREVIATIONS

B.L.–BUILDING LINE
C.L.F.–CHAIN LINK FENCE
CMC–CREPE MYRTLE CLUSTER
F.C.–FILM CODE
FF–FINISH FLOOR
FL–FLOW LINE
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT–OF–WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
UGV–UNDERGROUND VAULT
W.I.F.–WROUGHT IRON FENCE



SHEET 1 OF 2

TO: GALENA PARK INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

7/16/25
DATE

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

SURVEYOR'S NOTES:

1. 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 0.99990162873.

2. ACCORDING TO F.I.R.M. MAP NOS. 48201C0720M (COMMUNITY–PANEL NO. 480287072OM), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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.

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

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

5. 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:

RM130120 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 130120 IS A BRASS DISK STAMPED 130120 LOCATED ON THE CENTERLINE OF A CONCRETE HEADWALL OF STREAM 111–01–00 ON THE SOUTH SIDE OF WALLISVILLE ROAD ±1170 FEET EAST OF NORTH CASTLEGORY ROAD IN KEY MAP 457U. ELEVATION = 30.90' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "F" – BOX CUT ON "BB" INLET LOCATED ±165' NORTHWEST FROM THE NORTHWEST CORNER OF TICKET BOOTH. ELEVATION=31.91'

TBM "G" – BOX CUT ON "BB" INLET LOCATED ±212' NORTHEAST FROM THE NORTHEAST BUILDING CORNER. ELEVATION =31.43'

GALENA PARK INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

GALENA PARK ISD
NORTH SHORE SENIOR HIGH SCHOOL
OUT OF THE
T.O. MEUX SURVEY,
ABSTRACT NO. 596
HARRIS COUNTY, TEXAS

WEST BELT SURVEYING, INC.
21020 PARK ROW, KATY, TX. 77449
PHONE: (281) 599-8288
FAX: (281) 492-6020
CERTIFIED FIRM NO. 100720600

NO.	DATE	REVISIONS	BY

DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S425–0051H	DATE: JULY 16, 2025

NOT TO SCALE

16 Jul 2025 1:19PM dorrenb
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ARCHITECT
VLK
20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
www.vlkarchitects.com

CIVIL ENGINEER
Adico Consulting Engineers
205 E Edgewood Drive
Friendswood, Texas 77546
Main Phone: 832.895.1093
https://adico-llc.com/

GALENA PARK ISD
HOUSTON, TX

North Shore Multi-use Indoor Facility

ADICO, LLC
TBPE FIRM NO. F-16423

ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
⚠1 ADDENDUM 1	10-08-25

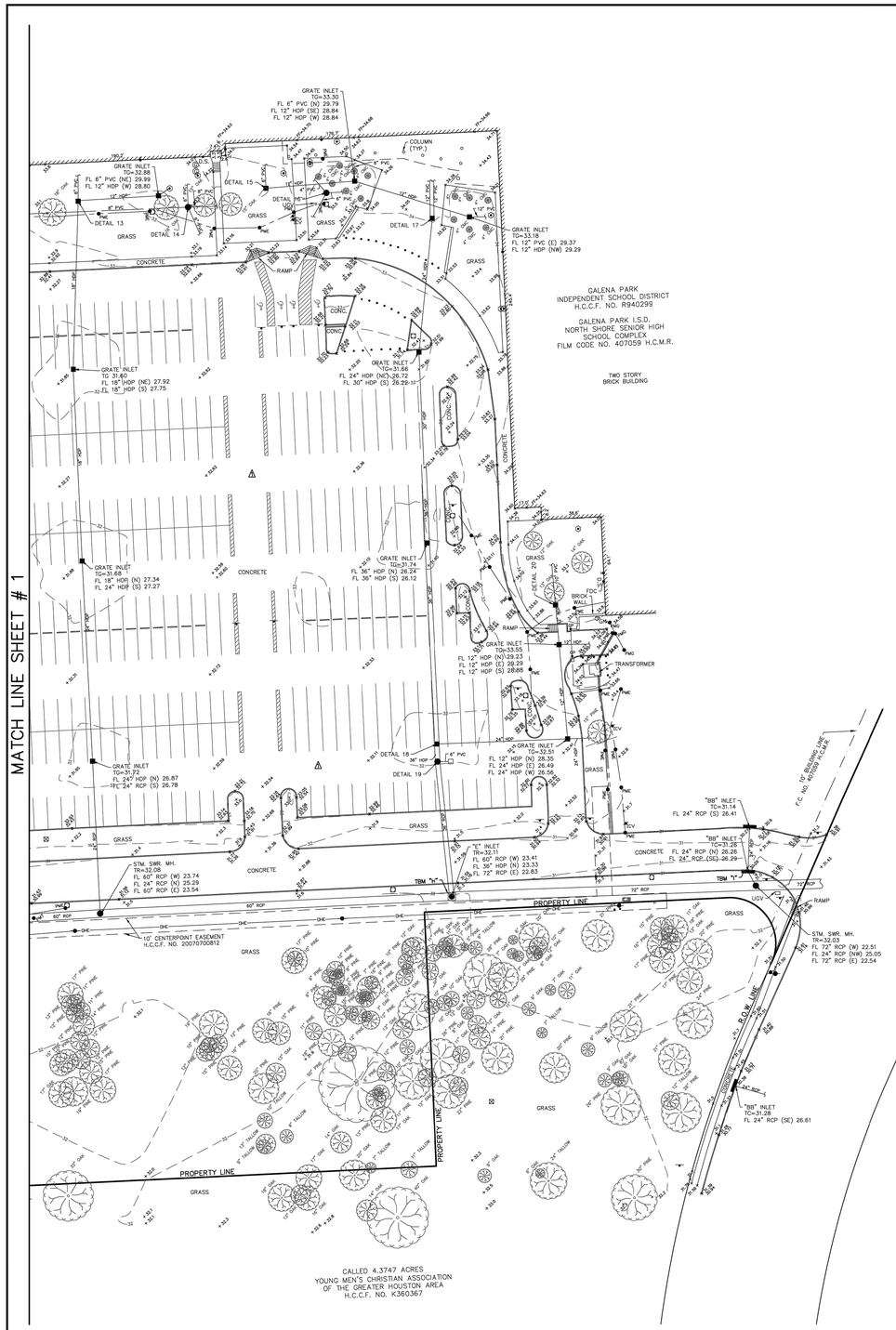
Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
TOPOGRAPHIC SURVEY (1 OF 2)

SHEET NO.
C2.00

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DETAILS

DETAIL 13
GRATE INLET
TG=33.15
FL 6 " PVC (N) 29.38
FL 12" HDP (E) 28.49
FL 18" HDP (SW) 28.04

DETAIL 14
SAN. SWR. MH.
TR=33.45
FL 6" PVC (N) 29.68
FL 8" PVC (E) 24.59
FL 6" PVC (SE) 25.48
FL 8" PVC (W) 24.47

DETAIL 15
GRATE INLET
TG=32.97
FL 6" PVC (N) 30.03
FL 12" HDP (E) 28.08

DETAIL 16
SAN. SWR. MH.
TR=33.76
FL 4" PVC (NW) 27.40
FL 6" PVC (E) 28.81
FL 6" PVC (SW) 27.19

DETAIL 17
GRATE INLET
TG=34.03
FL 12" PVC (N) 28.17
FL 12" PVC (N) 28.15
FL 24" HDP (SW) 27.27

DETAIL 18
GRATE INLET
TG=31.79
FL 36" HDP (N) 26.19
FL 24" HDP (E) 26.22
FL 36" HDP (S) 26.32

DETAIL 19
STM. SWR. MH.
TR=31.98
FL 36" HDP (N) 26.16
FL 6" PVC (E) 25.96
FL 36" HDP (S) 25.93

DETAIL 20
GRATE INLET
TG=33.26
FL 12" HDP (S) 29.10
FL 10" PVC (N) 29.34

VICINITY MAP



SCALE 1" = 3000'



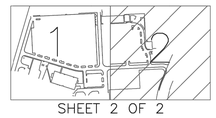
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STM.–STORM
SWR.–SEWER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
UGV–UNDERGROUND VAULT
W.I.F.–WROUGHT IRON FENCE



SHEET 2 OF 2

JOEL D. WALKER 5189 REGISTERED PROFESSIONAL LAND SURVEYOR

TO: GALENA PARK INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

8/27/25
DATE

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

SURVEYOR'S NOTES:

1. 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 0.99990162873.

2. ACCORDING TO F.I.R.M. MAP NOS. 48201C0720M (COMMUNITY–PANEL NO. 480287 0720M), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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.

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

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

5. 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.

6. THE SUBJECT TRACT IS AFFECTED BY A SHORT FORM BLANKET EASEMENT TO CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC, RECORDED UNDER H.C.C.F. NO. 20080072489.

REFERENCE BENCHMARK:

RM130120 – HARRIS COUNTY FLOODPLAIN REFERENCE MARK NUMBER 130120 IS A BRASS DISK STAMPED 130120 LOCATED ON THE CENTERLINE OF A CONCRETE HEADWALL OF STREAM 111–01–00 ON THE SOUTH SIDE OF WALLISVILLE ROAD ±1170 FEET EAST OF NORTH CASTLEGORY ROAD IN KEY MAP 457U. ELEVATION = 30.90' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "H" – BOX CUT ON "E" INLET LOCATED ON THE SOUTH SIDE OF MUSTANG LN ±257' WEST OF CASTLEGORY.
ELEVATION=32.10'

TBM "I" – BOX CUT ON "BB" INLET LOCATED ON THE SOUTH SIDE OF MUSTANG LANE ±62' WEST OF N. CASTELGORY.
ELEVATION=31.24'

GALENA PARK INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

GALENA PARK ISD
NORTH SHORE SENIOR HIGH SCHOOL
OUT OF THE
T.O. MEUX SURVEY,
ABSTRACT NO. 596
HARRIS COUNTY, TEXAS

WEST BELT SURVEYING, INC.
21030 PARK ROW, KATY, TX. 77449
PHONE: (281) 599-8288
FAX: (281) 492-6020
CERTIFIED FIRM NO. 10078800

NO.	DATE	REVISIONS	BY
1	8/27/25	ADDITIONAL TOPO OF EAST PARKING LOT	DB

DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S425–0051H	DATE: JULY 16, 2025

NOT TO SCALE

27 Aug 2025 4:08PM markl
G:\sdsk\pro1\S425005\1\DWG\T082025.dwg

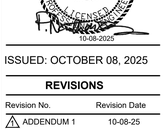
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https://adico-llc.com/

GALENA PARK ISD
HOUSTON, TX

ADICO, LLC
TBPE FIRM NO. F-16423



ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
1 ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

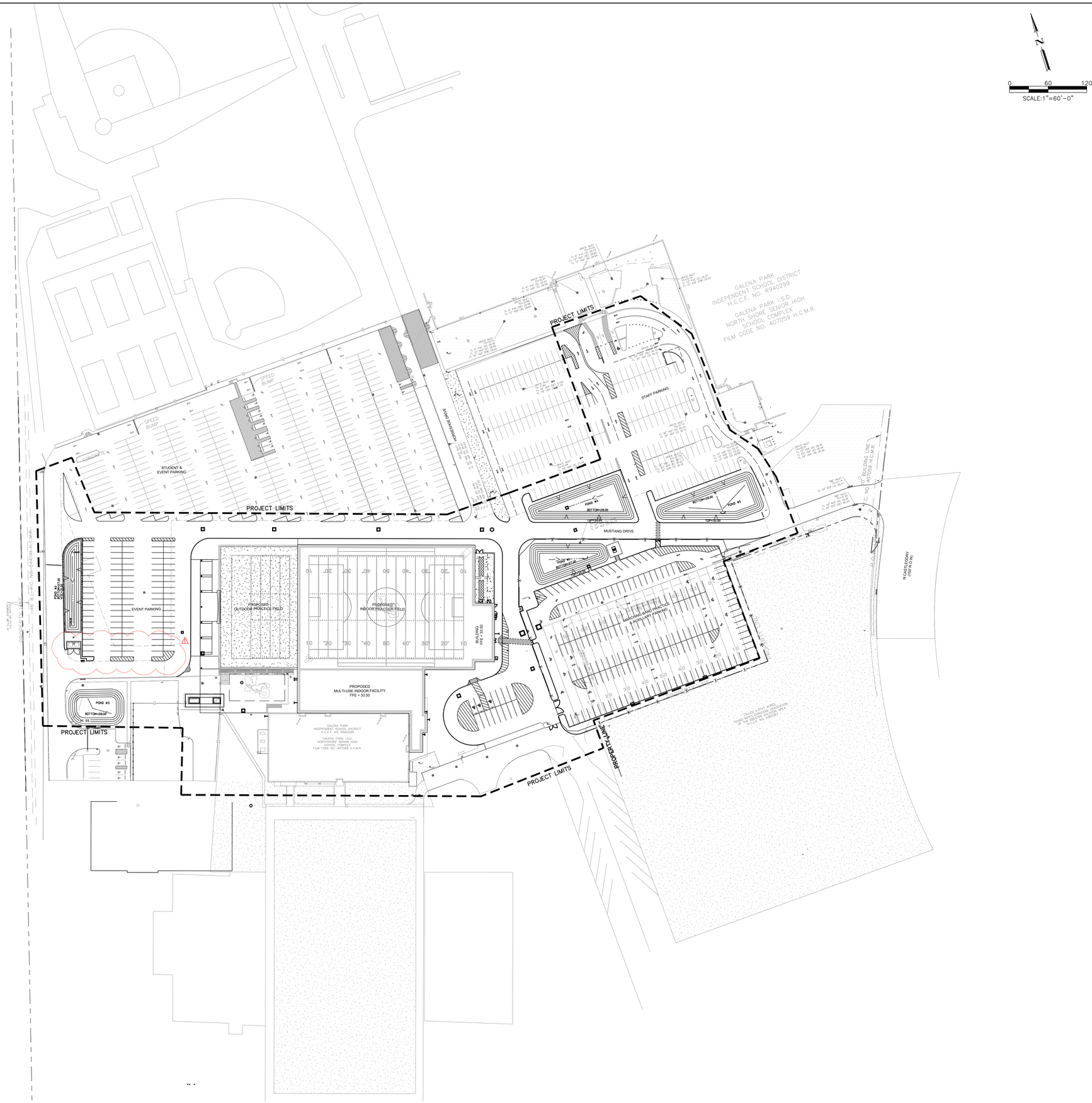
PROJECT NO.
25-0056.00

SHEET TITLE
TOPOGRAPHIC SURVEY (2 OF 2)

SHEET NO.
C2.10

North Shore Multi-use Indoor Facility

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GALENA PARK ISD
HOUSTON, TX

North Shore Multi-use Indoor Facility

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS
NANTHAWONG NAWRY
99284
LICENSED
PROFESSIONAL ENGINEER
10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

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⚠1 ADDENDUM 1	10-08-25

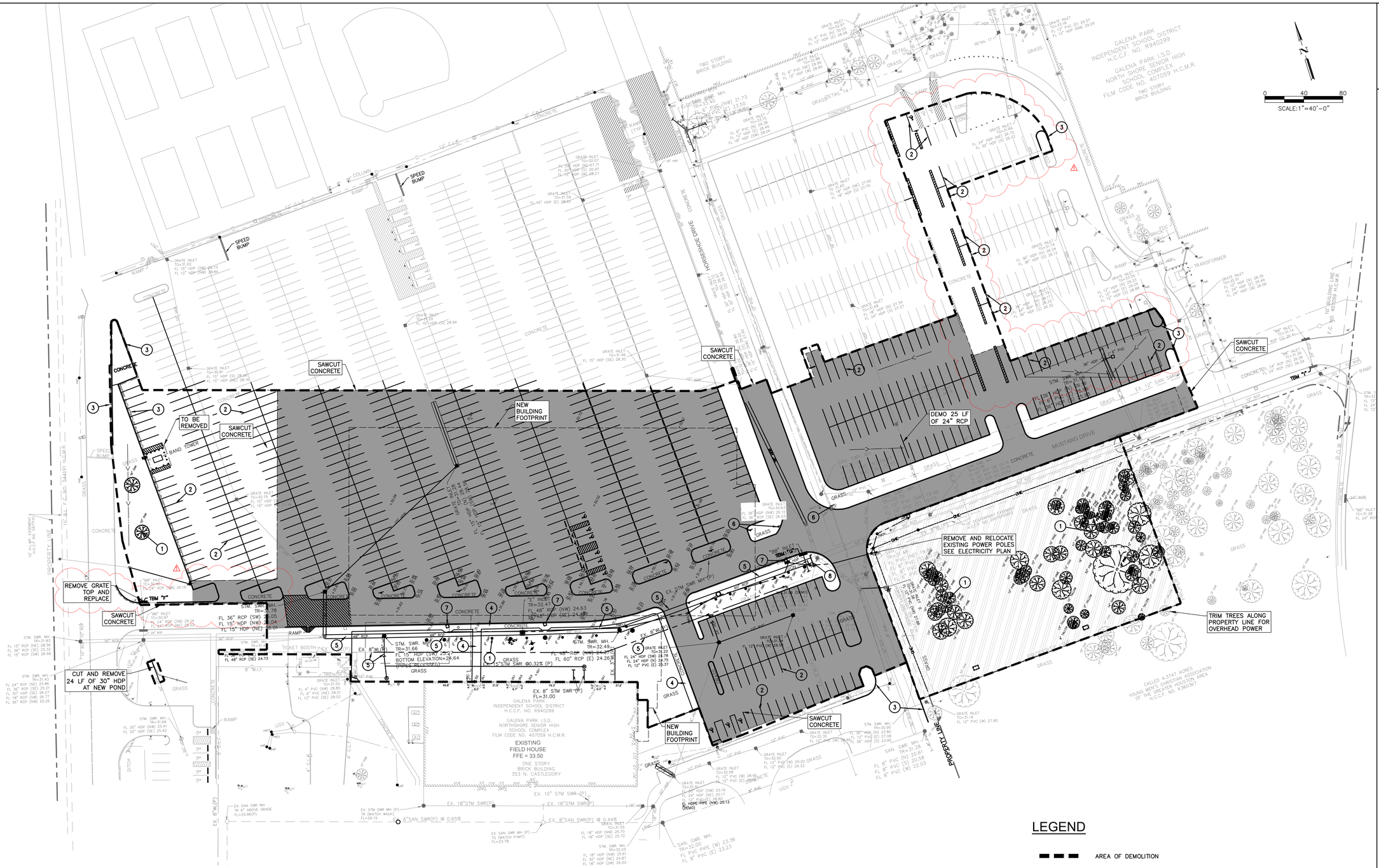
Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
OVERALL SITE LAYOUT PLAN

SHEET NO.
⚠1 C3.00

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CONSTRUCTION KEY NOTES

KEY	NOTE
1	REMOVE EXISTING TREES
2	REMOVE EXISTING STRIPING
3	SAWCUT & REMOVE EXISTING CURBS
4	REMOVE EXISTING SIDEWALK
5	REMOVE EXISTING UNGERGROUND UTILITY
6	REMOVE EXISTING SIGNS
7	REMOVE EXISTING LIGHT POLES
8	AFTER RE-ROUTE STORM SEWER SYSTEM COMPLETED, CUT 60" STM 4-FT FROM MANHOLE AND PLUG PER HC STANDARD

LEGEND

- AREA OF DEMOLITION
- REMOVE CONCRETE PAVEMENT & CURB
- CLEARING AND GRUBBING AREA 1.19 ACRES

NOTE:
ALL MATERIALS CLEARED FROM THE DESIGNATED AREAS SHALL BE DISPOSED OF OFFSITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL RULES AND REGULATIONS AND THE PAYMENT OF ANY ALL FEES THAT MAY RESULT FROM DISPOSAL AT LOCATIONS AWAY FROM THE PROJECT SITE.

Texas 811

WARNING:

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

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TBPE FIRM NO. F-16423

10-09-2025

ISSUED: OCTOBER 08, 2025

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1 ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

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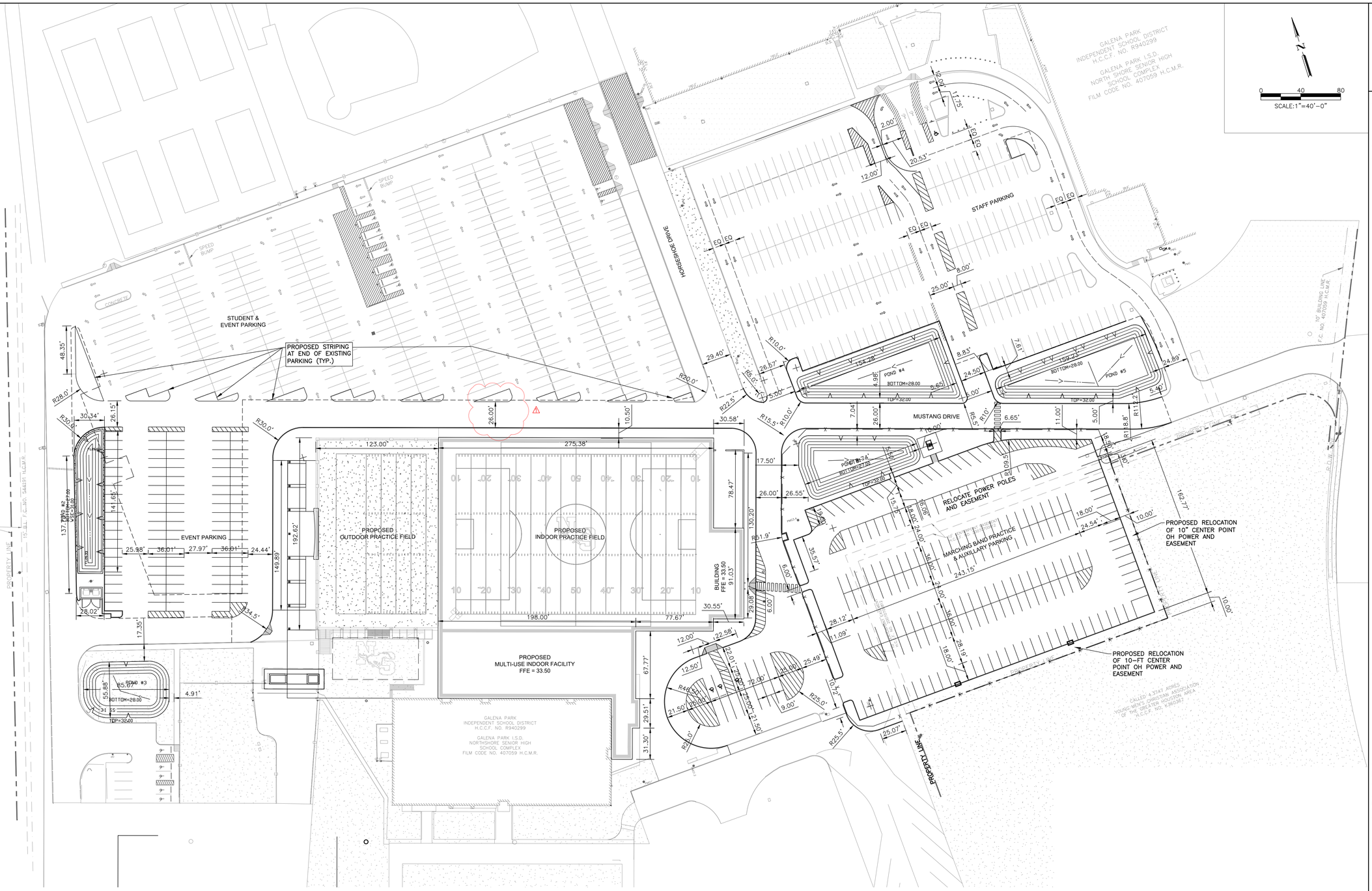
SHEET TITLE
DEMOLITION PLAN

SHEET NO.
C4.00

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HOUSTON, TX

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SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4. ALL ISLANDS WITH CURB SHALL BE LANDSCAPED PER LANDSCAPE PLAN.
5. NOT ALL DIMENSIONS ARE SHOWN ON THIS PLAN, SEE ARCHITECTURAL SITE PLAN FOR DETAILED DIMENSIONS.
6. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
8. REFER TO TOPOGRAPHICAL SURVEY ON SHEET C2 FOR EXISTING CONDITIONS, REFER TO PLAT FOR PROPERTY BOUNDARIES.
9. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE STANDARD SITE WORK SPECIFICATION.
10. PROVIDE SOLID SOD AT ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

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GALENA PARK ISD
HOUSTON, TX

North Shore Multi-use Indoor Facility

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS
DAVID HUANG
99264
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PROFESSIONAL ENGINEER
10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

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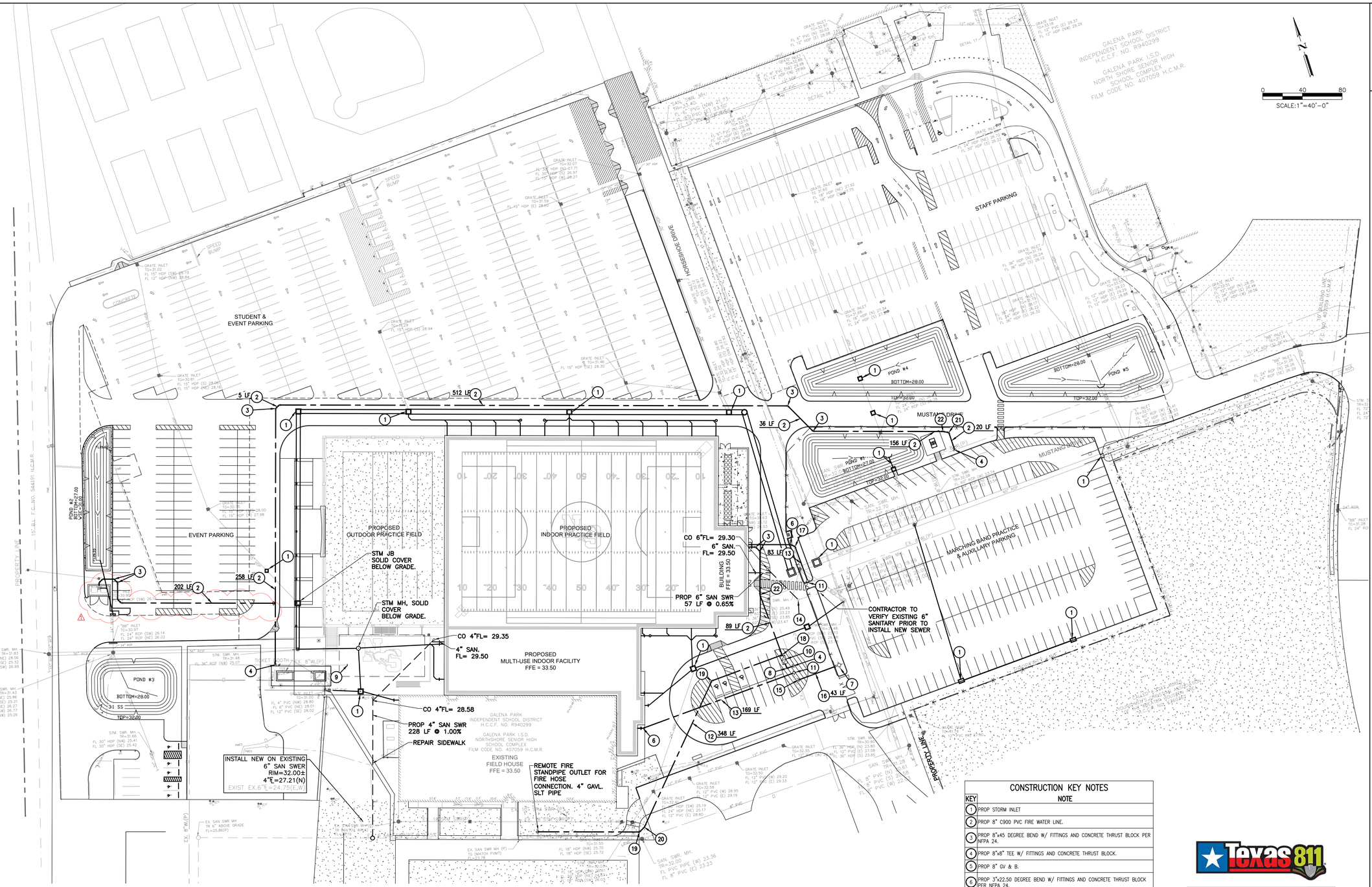
Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
SITE DIMENSION PLAN

SHEET NO.
C5.00

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WATER LINE AND SANITARY SEWER NOTES:

1. CONTRACTOR TO ALLOW A MINIMUM OF 12 INCHES VERTICAL CLEARANCE BETWEEN PROPOSED WATER LINE AND OTHER EXISTING OR PROPOSED UTILITIES. MINIMUM 2 FT CLEAR FROM SANITARY SEWER.
2. ALL WATER LINES TO HAVE A MINIMUM COVER OF 4' BELOW FINISHED GRADE, VARY THE FLOWLINE UNIFORMLY FROM DEPTH AND LOCATION SHOWN TO ACHIEVE COVER.
3. ALL WATER LINE FITTINGS TO BE EITHER: BRONZE, PVC, OR DUCTILE IRON.
4. ALL WATER LINE FITTINGS TO BE INSTALLED WITH ADEQUATE CONCRETE THRUST BLOCKS.
5. ALL WATER LINES TO BE TESTED AS PER THE CITY OF PEARLAND SPECIFICATIONS, DETAILS AND FIRE MARSHALL AS APPLICABLE.
6. ALL WATER LINES TO BE WRAPPED IN A MINIMUM OF 12—INCHES OF CLEAN BANK SAND, OR ONSITE SUITABLE FILL MATERIAL, UNLESS OTHERWISE NOTED, REMAINING BACKFILL TO BE MADE WITH COMPACTED SELECT MATERIAL UNLESS OTHERWISE NOTED.
7. WHENEVER NEW WATER LINES CROSS SANITARY SEWER LINES WITH LESS THAN TWENTY FOUR (24) INCHES OF VERTICAL CLEARANCE, THE SEWER LINE SHALL BE CONSTRUCTED IN A CONTINUOUS CAST IRON CASING FOR A DISTANCE OF NINE (9) FEET EACH SIDE OF THE WATER LINE. MINIMUM VERTICAL CLEARANCE TO BE SIX (6) INCHES WITH THE SEWER LINE LOCATED LOWER THAN THE WATER LINE.
8. ALL SANITARY SEWERS CROSSING WATER LINES WITH A 6 INCHES TO 9 FEET CLEARANCE SHALL HAVE A MINIMUM OF 18' JOINT OF 150 P.S.I. SDR 26 PVC PIPE MEETING ASTM SPECIFICATION D2241 CENTERED ON WATER LINE. WHEN WATER LINE IS BELOW SANITARY SEWER PROVIDE MINIMUM 2 FOOT SEPARATION.
9. REFER TO GENERAL NOTES SHEET C1 FOR WATER AND SANITARY SEWER PIPE MATERIAL AND SPECIFICATIONS REQUIRED BY CITY OF PEARLAND.

UTILITY NOTES:

1. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONFLICT OR DISCREPANCIES.
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR SERVICE ORIGINATION AND CONNECTION.
3. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING ITEMS ONSITE.
4. CONTRACTOR SHALL KEEP THE SITE CLEAN OF DEBRIS AND ANY EROSION CONTROL MEASURES ARE ADEQUATELY PLACED.
5. CONTRACTOR TO COORDINATE LOCATIONS OF UNDERGROUND IRRIGATION SLEEVING PRIOR TO PAVING. SEE LANDSCAPE PLANS.
6. CONTRACTOR TO COORDINATE LOCATIONS OF UNDERGROUND CONDUIT FOR SITE LIGHTING PRIOR TO PAVING.
7. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 903 SAN JACINTO, RM 319, AUSTIN, TX. 78701. TEL: (512) 916—5783.
8. REFERENCE MEP PLANS FOR UTILITY CONDUIT LOCATIONS.
9. GAS LINE SHALL BE POLYETHYLENE (PE) PIPE ASTM D 2513 SDR 11 WITH FITTINGS POLYETHYLENE ASTM D 2683, SOCKET FUSION TYPE OR ASTM D 3261 BUTT FUSION TYPE WITH DIMENSIONS MATCHING PE PIPE. PE TRANSITION FITTINGS: FACTORY FABRICATED FITTINGS WITH PE PIPE COMPLYING WITH ASTM D 2513, SDR 11; AND STEEL PIPE COMPLYING WITH ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40 TYPE E OR S, GRADE B. TRANSITION SERVICE RISER: PE TRANSITION FITTING WITH CORROSION PROTECTIVE COATING FOR ABOVE GROUND STEEL PIPE.

CONSTRUCTION KEY NOTES

KEY	NOTE
1	PROP STORM INLET
2	PROP 8" C900 PVC FIRE WATER LINE.
3	PROP 8"x45 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
4	PROP 8"x8" TEE W/ FITTINGS AND CONCRETE THRUST BLOCK.
5	PROP 8" GV & B.
6	PROP 3"x22.50 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
7	PROP FIRE HYDRANT ASSEMBLY INCLUDING, 8"x6" TEE, 6" 90 DEGREE ELBOW 6" G.V. W/ BOX. SEE DETAILS SHEET C14
8	PROP 8"x90 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
9	CUT AND CAP EXISTING 8" WL, MECH. RESTRAIN
10	8" DOUBLE CHECK BACKFLOW PREVENTER IN VAULT, WITH FDC AND PVI
11	PROP 8"x3" T.S&V
12	PROP 4" C900 PVC FIRE WATER LINE FROM FDC TO REMOTE FIRE HOSE CONNECTION.
13	PROP 3" SCH 40 PVC WATER LINE.
14	PROP 6" SAN. DROP CONNECTION TO EXISTING 6" SS. FIELD TO VERIFY LOCATION OF EXISTING 6" SAN. SWR
15	PROP 8"x6" TEE W/ FITTINGS AND CONCRETE THRUST BLOCK.
16	PROP 6" C900 PVC FIRE WATER LINE.
17	PROP 3"x45 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
18	PROP 8"x4" TEE W/ FITTINGS AND CONCRETE THRUST BLOCK.
19	PROP 4"x45 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
20	PROP 4"x22.5 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
21	PROP 8"x60 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.
22	PROP 8"x22.5 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK PER NFPA 24.

Texas 811

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EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

LEGEND:

- PROPOSED STORM SEWER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY/ STORM CLEAN OUT
- PROPOSED STORM MANHOLE
- PROPOSED STORM INLET
- PROPOSED WATER TAP SLEEVE AND VALVE

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ADICO, LLC
TBPE FIRM NO. F-16423

10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
1 ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

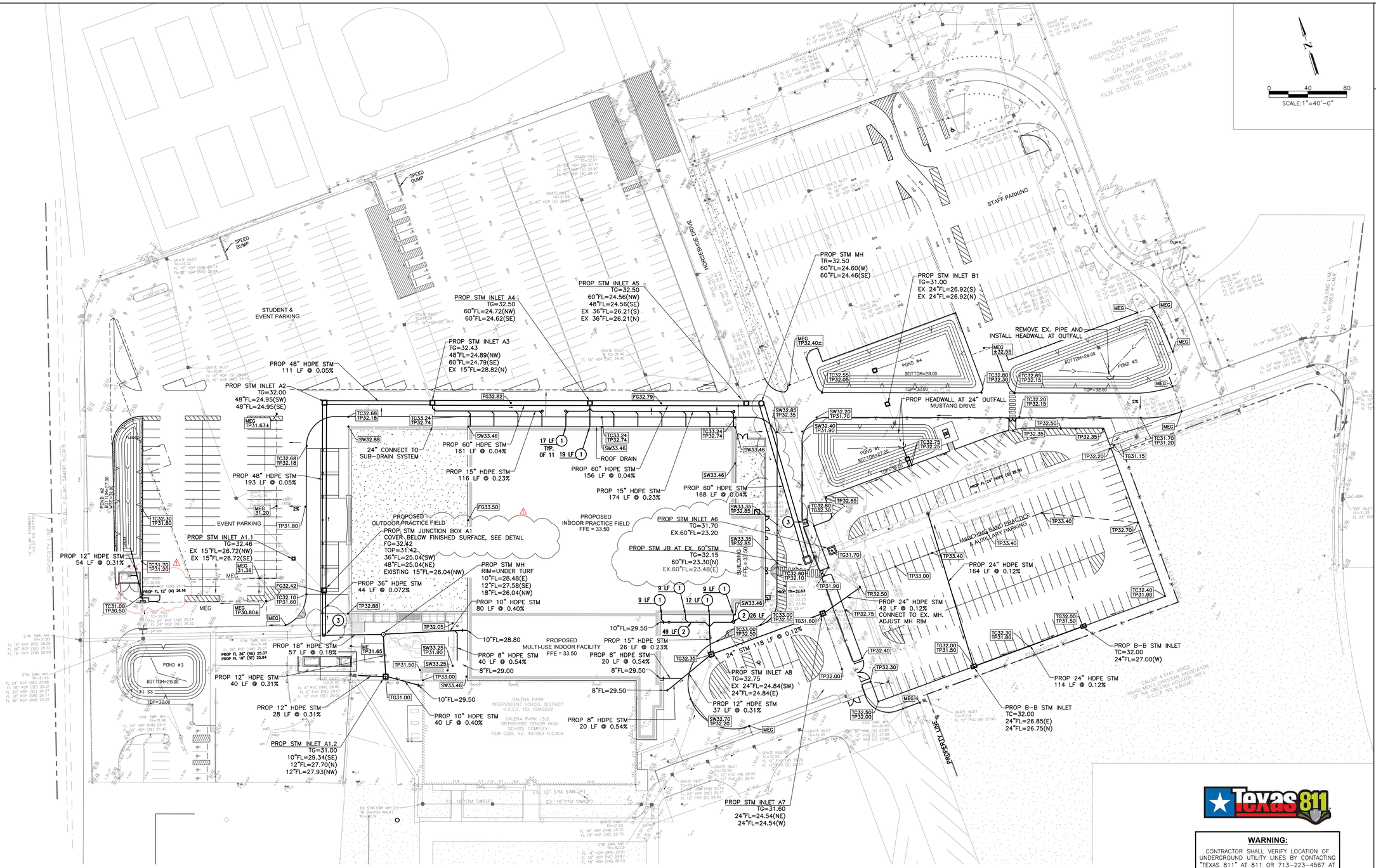
SHEET TITLE
SITE UTILITY PLAN

SHEET NO.
C6.00

GALENA PARK ISD
HOUSTON, TX

North Shore Multi-use Indoor Facility

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CONSTRUCTION KEY NOTES

KEY	NOTE
1	TIE DOWNSPOUTS TO UNDERGROUND STORM SEWER. USE 8" HDPE STM SWR @ 0.54%.
2	PROP 10" HDPE STM SWR @ 0.40%
3	REPAIR EXIST. INLET OR MANHOLE WALL

LEGEND:

	PROPOSED STORM INLET
	PROPOSED STORM SEWER
	PROPOSED SWALES
53.00	EXISTING CONTOUR
MEG	MATCH EXISTING GRADE
TC14.00	PROPOSED TOP OF CURB ELEVATION
TP14.00	PROPOSED TOP OF PAVEMENT
SW14.00	PROPOSED TOP OF SIDEWALK ELEVATION
FG14.00	PROPOSED FINISH GRADE ELEVATION
FF14.00	PROPOSED FINISHED FLOOR ELEVATION
TG14.00	PROPOSED TOP OF GRATE ELEVATION
TW14.00	PROPOSED TOP OF WALL ELEVATION
FL14.00	PROPOSED FLOW LINE ELEVATION

Texas 811

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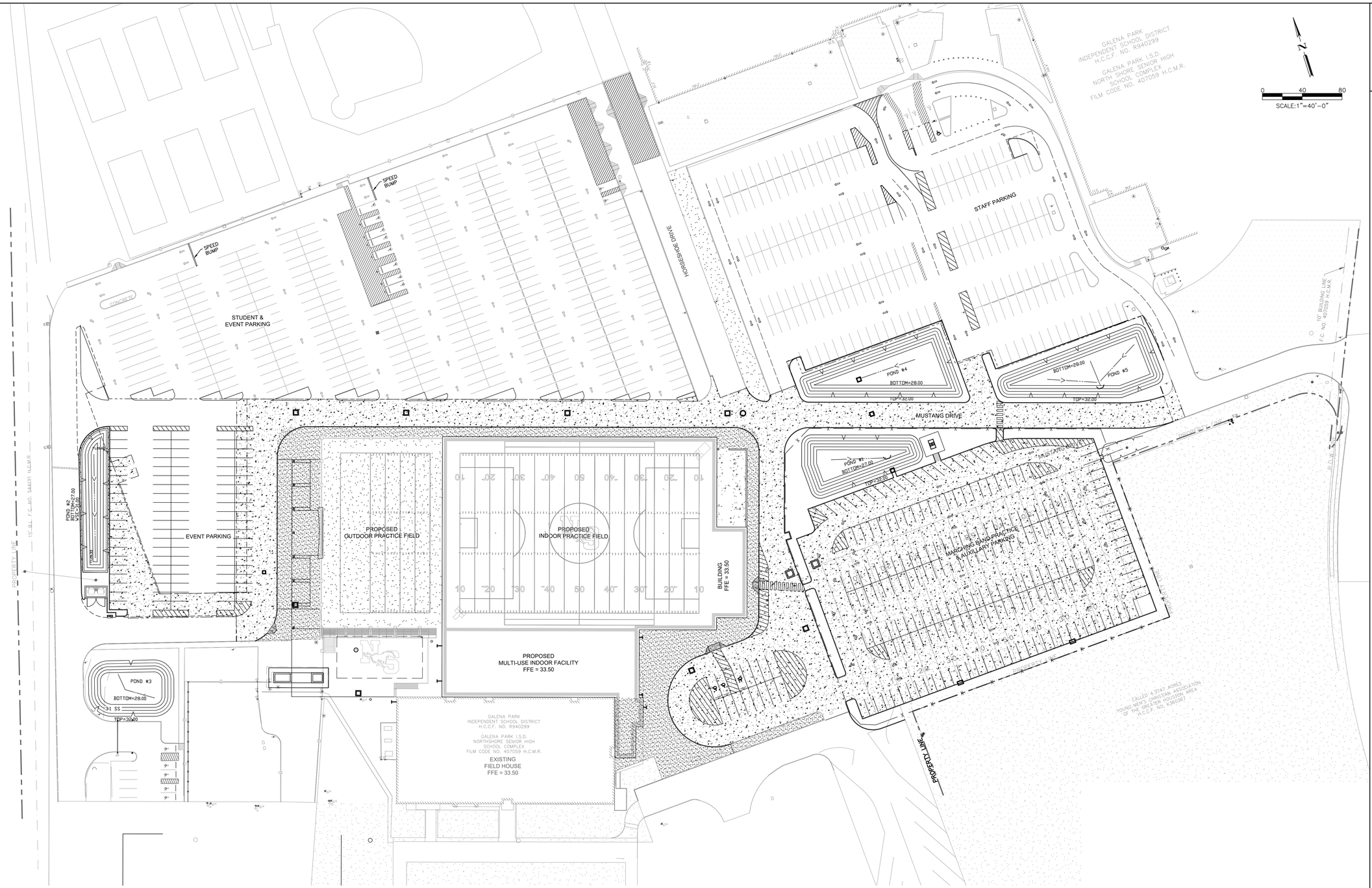
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GRADING & DRAINAGE PLAN

SHEET NO.
C7.00

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HOUSTON, TX

North Shore Multi-use Indoor Facility

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LEGEND

- PROPOSED 4.5"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY
- PROPOSED 5"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY OR #4 REBAR @ 24" OC EA WAY
- PROPOSED 6"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 12" OC EA WAY OR #4 REBAR @ 18" OC EA WAY
- PROPOSED 7"-INCH THICK CONCRETE PAVING W/ #4 REBAR @ 18" OC EA WAY
- EJ — EXPANSION JOINT

NOTE:
CONTROL JOINT OR SAW JOINT NOT SHOWN. SEE TYPICAL PAVING DETAIL SHEET CX FOR DETAILS

Texas 811

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HOUSTON, TX

North Shore Multi-use Indoor Facility

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS
SHANNON NORDHAUS
99254
LICENSED
PROFESSIONAL ENGINEER
10-08-2025

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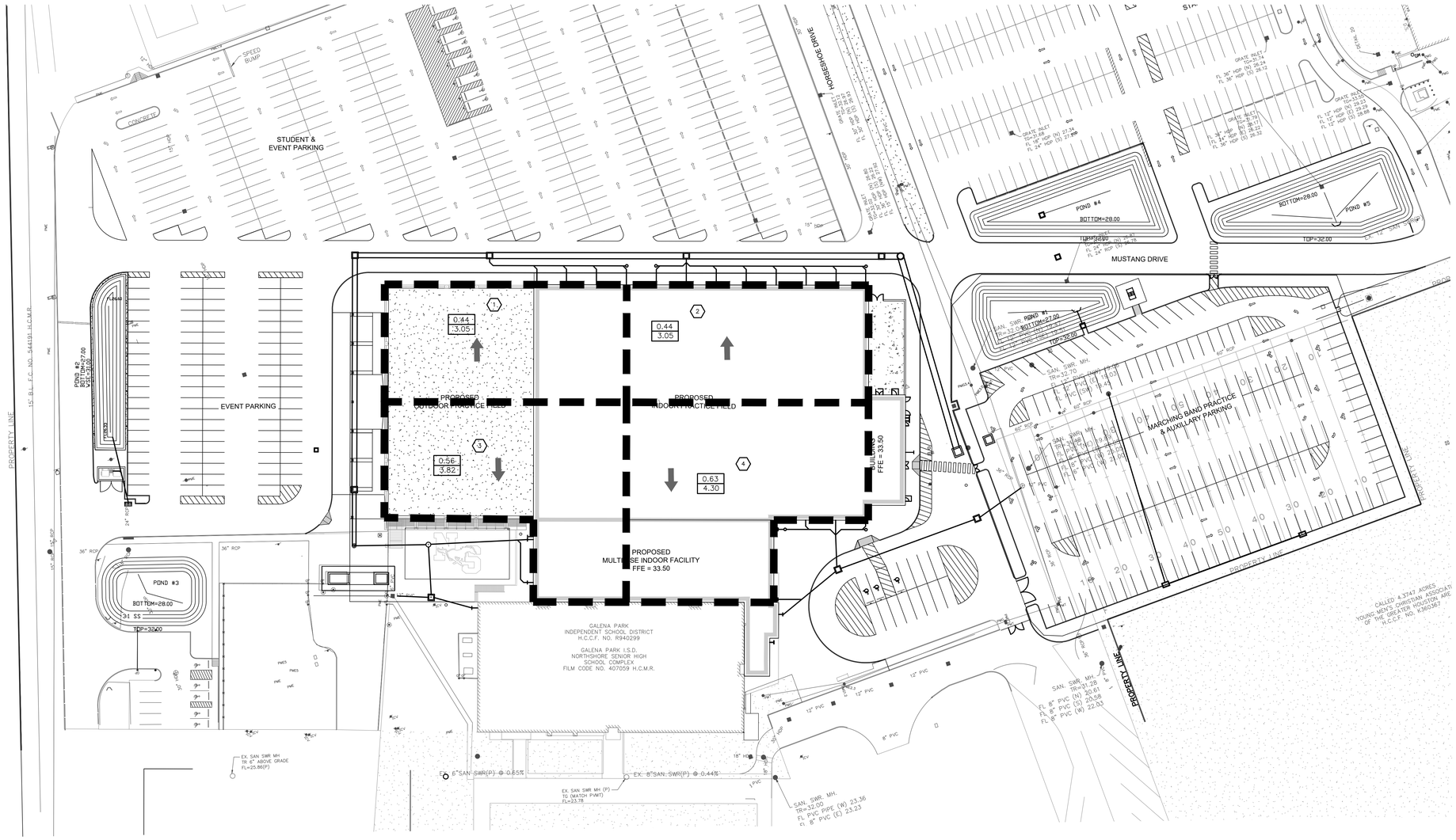
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PROJECT NO.
25-0056.00

SHEET TITLE
PAVING PLAN

SHEET NO.
C8.00

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100-YEAR FREQUENCY STORM SEWER CALCULATIONS:

STORM SEWER CALCULATIONS

Project: North Shore High School
Job No.: 207-25-003-01
By: HK
Date: 9/22/2025

Storm Frequency: 100 year
Runoff Coefficient: Business Districts 0.80

b = 86.2332
d = 11.1001
e = 0.6829

Total Drainage Area = 0.44 acres

C:\Users\hkidd\ADICO Dropbox\ADICO\ALLC\00 - CLIENTS\207 - VLK\207-25-003-01 Galena Park ISD - Northshore HS Multi-Use Facility\2 - Eng\[Storm Sewer Calculations Galena Park ISD.xls]storm sewer design

M.H. From	M.H. To	Pipe Length (feet)	Pipe Size (inches)	Pipe Material	Pipe Slope %	Area (SF)	Area (acres)	Runoff Coeff. C	Total Area (acres)	Time of Conc. (min.)	Intensity I (in./hr.)	Inlet Flows (cfs)	Sum of Flows (cfs)	Design Flow (cfs)	Design Velocity (fps)
System A															
A4	OF	162.00	18	HDPE	0.18%	27,530.8	0.63	0.90	0.63	24.2	7.56	4.30	4.30	5.27	2.98
A3	OF	35.00	18	HDPE	0.18%	24,382.3	0.56	0.90	0.56	24.0	7.59	3.82	3.82	5.27	2.98
A2	OF	174.00	15	HDPE	0.23%	19,289.0	0.44	0.90	0.44	23.7	7.64	3.05	3.05	3.66	2.98
A1	OF	116.00	15	HDPE	0.23%	19,289.5	0.44	0.90	0.44	23.7	7.64	3.05	3.05	3.66	2.98

DETENTION SUMMARY

Required Detention Volume Per Harris County at 0.75 ac-ft/ ac

Total Required Det. Volume **65,217** CF
1.497 AC-FT

Existing Impervious To Be Removed

Remove Concrete for Landscape Island 783 SF
Existing ImperviousTotal 783 SF
0.02 AC

New Impervious

New Paving and Impeverious Area 77,788 SF
Pond Areas 9,951

New Impervious Total 87,739 SF
2.01 AC

Net Increase of Impervious = 86,956 SF
1.996 AC

	Pond 1 SS=1:3	Pond 2 SS=3:1	Pond 3 SS=3:1	Pond 4 SS=3:1	Pond 5 SS=3:1
A2 (Area of WSE, SF) =	4652	3161	3725	6014	6560
A1 (Area of Bottom, SF) =	1569	620	1917	2928	3412
Depth (FT) =	4.00	3.00	3.00	3.00	3.00
Volume (CF) =	11,897	5,181	8,314	13,138	14,703
(AC-FT)	0.27	0.12	0.19	0.30	0.34
	441	192	308	487	545

Total Volume in Ponds 53,233 CF
1.222 AC-FT
1,972 CY

Storage in Pipe

Pipe Dia. (Inch.)	Pipe Area (SF)	Length (LF)	Volume (CF)
36	7.07	230	1,625
48	12.56	300	3,768
60	19.63	500	9,813

Total Vol. in Pipe = 15,205

Total Vol. in Pond and Pipes = 68,439 CF
1.571 AC-FT
2,535 CY

Total Provided Volume = **1.571** AC-FT
Net Volume = 0.03 AC-FT

NOTE: ALL PRIVATE DETENTION SHALL BE MAINTAINED BY THE OWNER AND SHALL HAVE NO ADVERSE IMPACTS TO ADJACENT PROPERTIES

DRAINAGE LEGEND

- DRAINAGE AREA BOUNDARY
- SYSTEM BOUNDARY
- 1.21 / 2.10 — ACREAGE (AC) / 5-YEAR RUNOFF (CFS)
- CUMULATIVE ACREAGE (AC)
- 3.25 / 12 / 9.25 — MANHOLE NUMBER / CUMULATIVE 5-YEAR RUNOFF (CFS)
- SHEET FLOW DIRECTION
- OFFSITE SHEET FLOW DIRECTION

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GALENA PARK ISD
HOUSTON, TX

North Shore Multi-use Indoor Facility

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS — HARRIS — NANTHANIYANWAY — 99284 — LICENSED PROFESSIONAL ENGINEER
10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
⚠ ADDENDUM 1	10-08-25

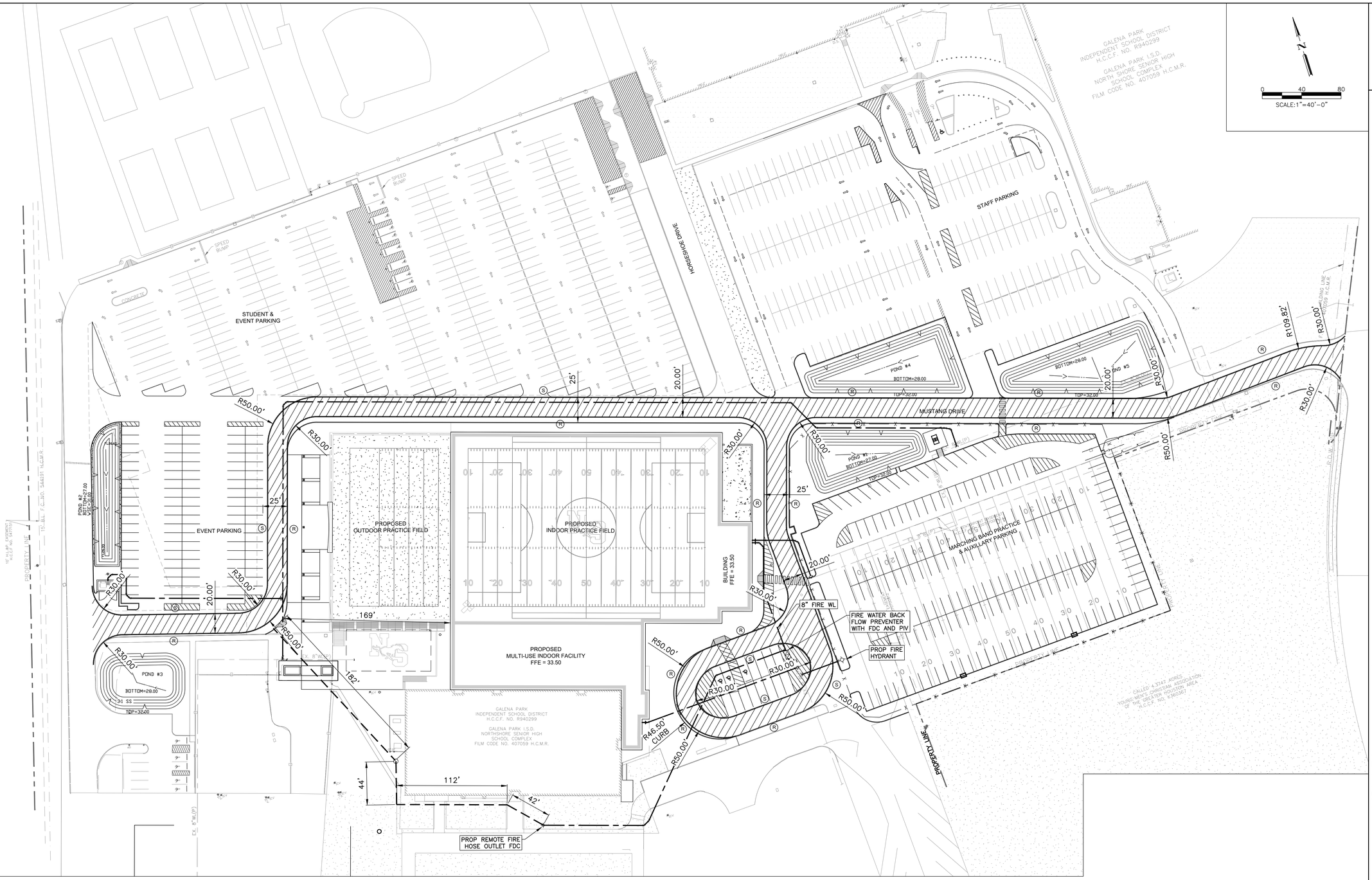
Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
DRAINAGE AREA MAP

SHEET NO.
C9.00

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FIRE ACCESS ROAD/FIRE LANE NOTES:

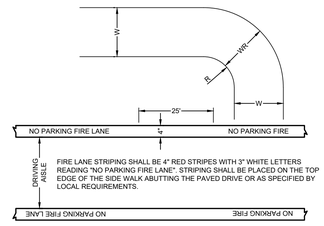
1. ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES.
2. RED COLORED CURBS, PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES.
3. WHERE FIRE LANES ARE CLEARLY DEFINED BY CURB/PAVEMENT STRIPING, FIRE LANE SIGNS ARE NOT REQUIRED.
4. ALL CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONE THE PAVEMENT WHERE THERE IS NO CURB. PAINTED CURBS AND FIRE LANE STRIPED SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKER WITH THE WARNING "FIRE LANE–TOW AWAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING (50) FEET.

FIRE LANE/ACCESS LEGEND:

- DESIGNATED FIRE LANE AREA FOR PERMIT APPROVAL PURPOSES. VERIFY FINAL APPROVED LOCATION WITH ARCHITECTURAL PLANS.
- (R) PAINT CURBS WITH RED PAINT TO SIGNIFY FIRE LANE.
- (S) (S) PAVEMENT SHALL BE PAINTED WITH RED STRIPED TO SIGNIFY FIRE LANE.

W	R	WR
20'	30'	30' MIN.
25'	20'	30' MIN.
30'	10'	30' MIN.

W = WIDTH (FEET) OF FIRE LANE
R = RADIUS NECESSARY TO ACCOMMODATE FIRE VEHICLES
WR = TURNING RADIUS PAVEMENT WIDTH



FIRE LANE STRIPING DETAIL

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PROFESSIONAL ENGINEER
10-08-2025

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⚠ ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

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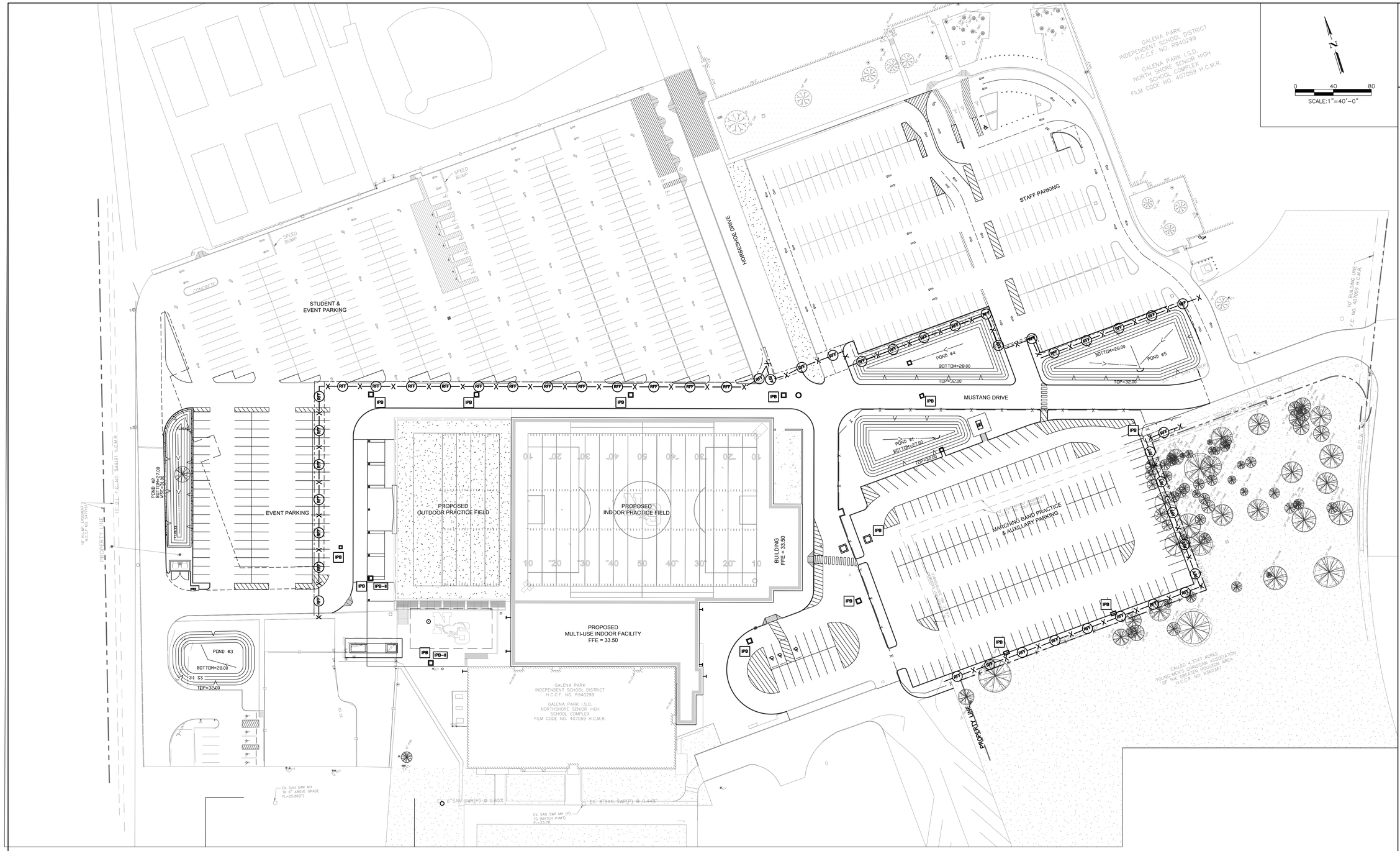
SHEET TITLE
FIRE ACCESS LANE

SHEET NO.
C10.00

GALENA PARK ISD
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North Shore Multi-use Indoor Facility

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SWPPP LEGEND:

- FF — FILTER FABRIC FENCE
- RFF — REINFORCED FILTER FABRIC FENCE
- IPB–II — INLET PROTECTION BARRIER (STAGE II INLET)
- IPB — INLET PROTECTION BARRIER
- SC — STABILIZED CONSTRUCTION ENTRANCE/EXIT
- FD–TYPE1 — FILTER DAM – TYPE 1
- CTW — CONCRETE TRUCK WASHOUT

NOTE: SEE C12 FOR STORM WATER POLLUTION PREVENTION DETAILS

POLLUTION PREVENTION NOTES:

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION SYSTEMS AT LOCATIONS SHOWN ON PLANS.
2. IF POLLUTION PREVENTION SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING POLLUTION PREVENTION SYSTEMS FOR DAMAGE PRIOR TO CONTRACTOR STARTING CONSTRUCTION OF THE CONTRACT. ANY DAMAGE NOTED AT THIS ITEM SHALL BE REPAIRED AT OWNER'S EXPENSE.
3. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCEMENT OF TPDES REQUIREMENTS PER "GENERAL REQUIREMENTS FOR PERMIT TXR150000".
5. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING GENERAL SOURCE CONTROLS.
6. THE LOCATION OF THE STABILIZED CONSTRUCTION ACCESS IS TO BE DETERMINED BY THE CONTRACTOR.
7. ALL RESERVES AND AREAS BETWEEN BACK-OF-CURB AND RIGHT-OF-WAY SHALL BE HYDRO-MULCHED SEEDED. ALL LOTS AND OTHER AREAS DISTURBED DURING CONSTRUCTION SHALL BE BROADCAST SEEDED.
8. CONTRACTOR SHALL INSPECT ALL POLLUTION PREVENTION SYSTEMS SPECIFIED HEREIN, AS REQUIRED IN THE PERMIT.
9. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
10. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
11. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR SHALL USE A LINER UNDER ABOVE GROUND STORAGE TANKS. CONTRACTOR SHALL USE FILTER FABRIC FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS.
12. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
13. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
16. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
17. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT BECOMES ABOUT ONE-THIRD OF THE HEIGHT OF THE FENCE.
18. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE HAS BEEN ESTABLISHED, STRUCTURAL CONTROLS WILL BE REMOVED AND ALL DISTURBED AREAS WILL BE RESTABILIZED.
19. AT THE COMPLETION OF THE PROJECT/CONTRACT, THE OWNER AND/OR OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL EXAMINE THE POLLUTION PREVENTION SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.

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REVISIONS

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⚠ ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
STORM WATER POLLUTION PREVENTION PLAN

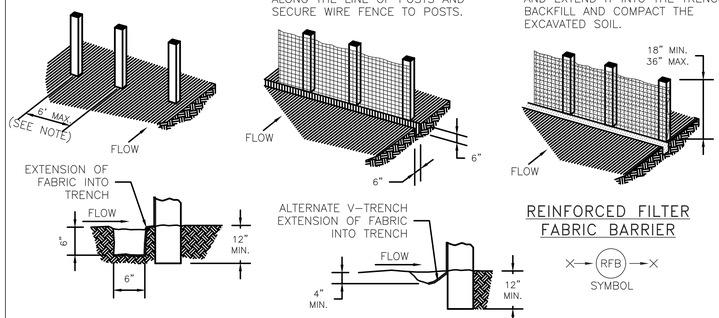
SHEET NO.
C11.00

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1. SET POSTS AT REQUIRED SPACING
2. EXCAVATE A 6"x6" TRENCH UPSLOPE ALONG THE LINE OF POSTS AND SECURE WIRE FENCE TO POSTS.
3. ATTACH FILTER FABRIC TO POSTS AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.

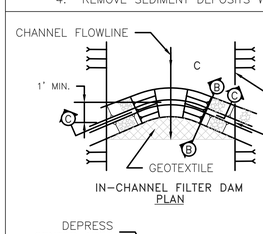


REINFORCED FILTER FABRIC BARRIER

RFB — SYMBOL

GENERAL NOTES:

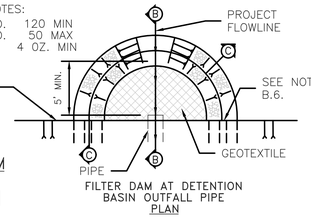
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



IN-CHANNEL FILTER DAM PLAN

GEOTEXTILE NOTES:

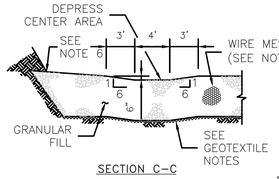
MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN



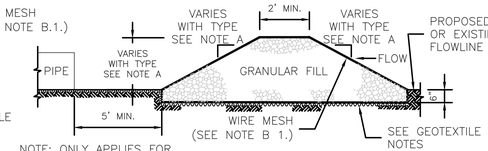
FILTER DAM AT DETENTION BASIN OUTFALL PIPE PLAN

FILTER DAM

RFD-TYPE — SYMBOL



SECTION C-C



NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

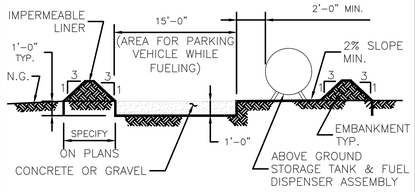
SECTION B-B

A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
   a. HEIGHT – 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM)
   c. SLOPES – 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT – 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT – 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT – 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

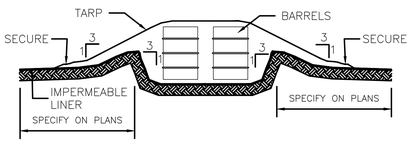


ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK

TFA — SYMBOL

GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.

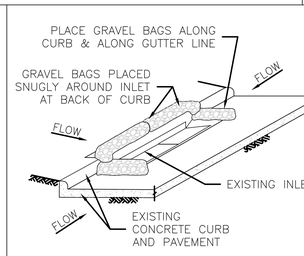


BARREL STORAGE AREA

BSA — SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.

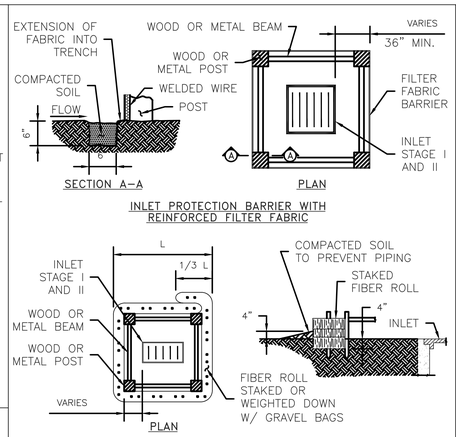


INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB-II — SYMBOL

GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



SECTION A-A — PLAN

INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC

PLAN

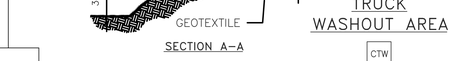
INLET PROTECTION BARRIER WITH FILTER ROLLS

GENERAL NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

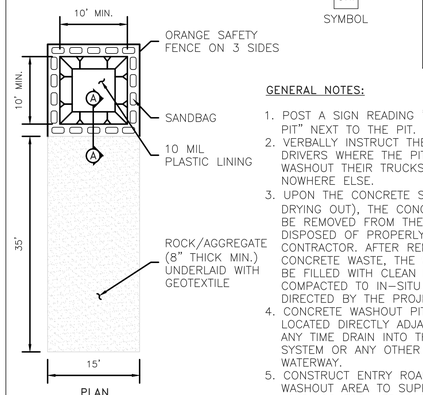
IPB — SYMBOL



SECTION A-A

CONCRETE TRUCK WASHOUT AREA

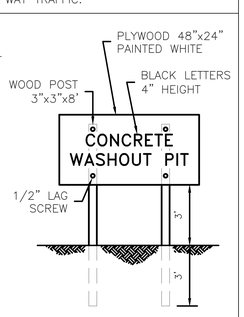
CTW — SYMBOL



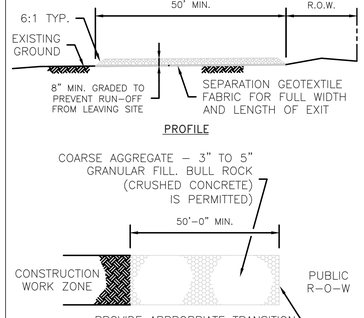
PLAN

GENERAL NOTES:

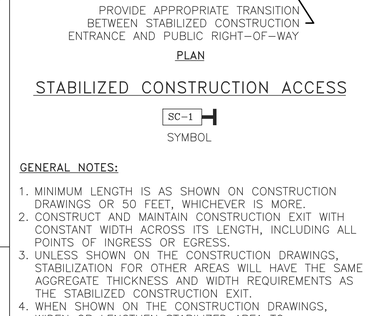
1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



SIGN DETAIL (OR EQUIVALENT)



PROFILE



PLAN

STABILIZED CONSTRUCTION ACCESS

SC-1 — SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

NO.	REVISIONS	DATE	NAME
1			
2			
3			
4			
5			

HARRIS COUNTY ENGINEERING DEPARTMENT

CONSULTANT LOGO/INFORMATION

PROJECT TITLE:

DRAWN BY: JDZ		HCED STANDARD
CK'D BY: NR	SHEET DESCRIPTION: STORM WATER POLLUTION	29
SCALE: NONE	PREVENTION PLAN DETAILS	SHEET NO: /
DATE:	APPROVED BY:	

VLK

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ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS — NATHANIEL R. WOOD — 99284 — LICENSED PROFESSIONAL ENGINEER — 10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
⚠1 ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
STORM WATER POLLUTION PREVENTION DETAILS

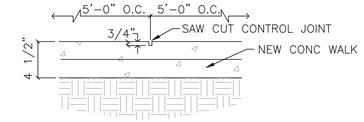
SHEET NO.
C12.00

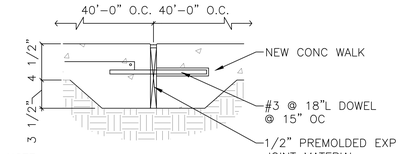
GALENA PARK ISD
HOUSTON, TX

North Shore Multi-use Indoor Facility

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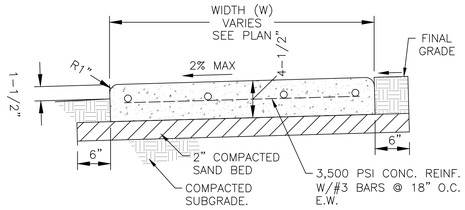
c:\users\hkidd\adico dropbox\adico\adico\00 - clients\207 - vlk\207-25-003-01 galena park isd - northshore hs multi-use facility\6 - drawings\c12 swpp details.dwg





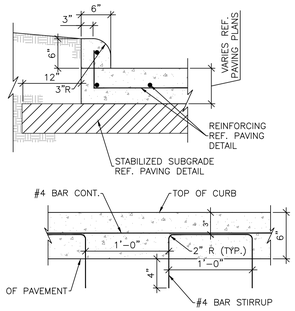
NOTE:
ALIGN WALK EXP JOINTS
WITH PAVING EXP JOINTS

SIDEWALK CONTROL & EXPANSION JOINT



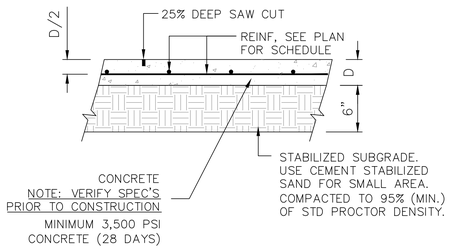
PROVIDE A SAWED JOINT SPACED EQUAL TO WIDTH (W)
AND EXPANSION JOINTS TO BE PLACED @ 4 X WIDTH

1 CONCRETE SIDEWALK DETAIL NTS

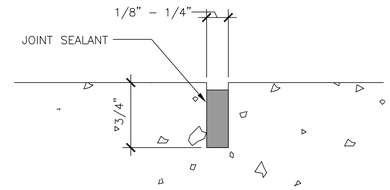


NOTES:
1. FOR NEW PAVEMENT STIRRUPS SHALL BE SET IN FRESH CONCRETE AND SECURED.
2. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
3. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
4. PLACE ¾" INCH PREFORMED EXPANSION JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF EXPANSION JOINTS IN PAVEMENT, AT END OF RADIUS RETURNS AT STREET INTERSECTIONS AND DRIVEWAYS, AND AT CURB INLETS. MAXIMUM SPACING SHALL BE 60' CENTERS.
5. PLACE ¾" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

2 CONCRETE CURB NTS

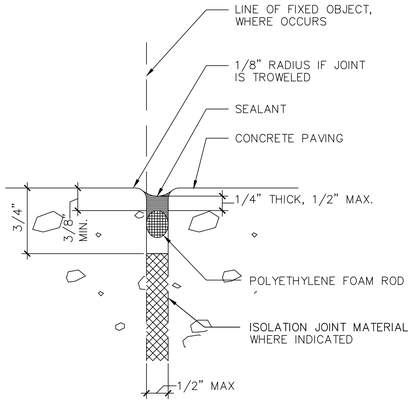


3 CONCRETE PAVEMENT NTS

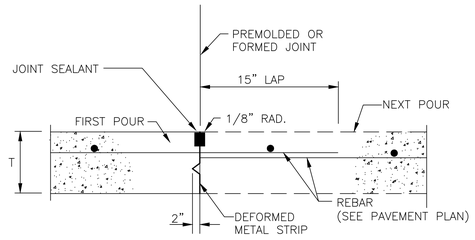


NOTE: JOINT IS TO BE SAWCUT WITHIN
2 HRS. OF CONCRETE POUR.

4 TYPICAL PAVEMENT CONTROL JOINT (SAWCUT) NTS

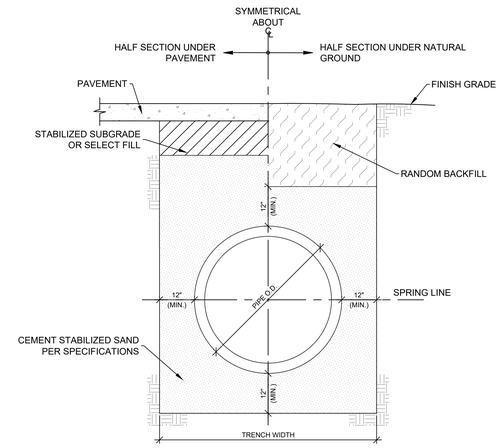


5 ISOLATION JOINT NTS



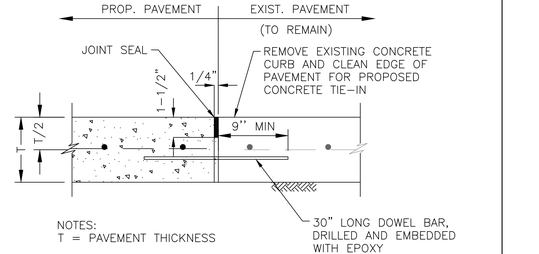
NOTE: CONSTRUCTION JOINT TO BE
USED WHEN POURING OPERATION IS
DELAYED (NOT TO REPLACE
EXPANSION JOINT)

6 CONSTRUCTION JOINT NTS



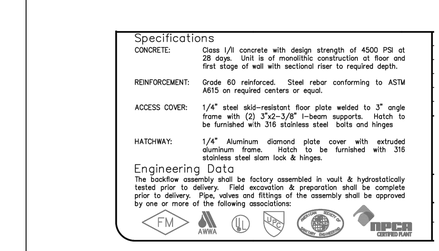
NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

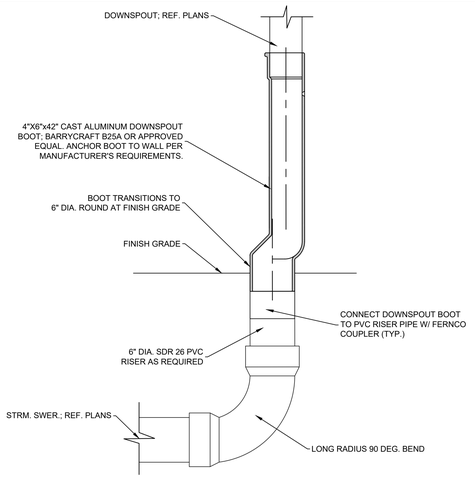
10 STORM SEWER BEDDING AND BACKFILL NTS



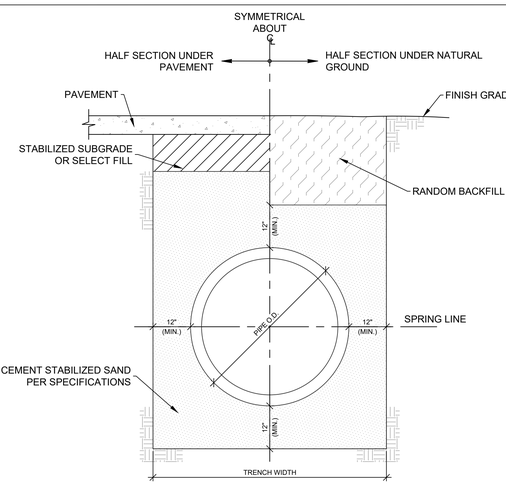
NOTES:
T = PAVEMENT THICKNESS

7 PROPOSED CONCRETE TO EXISTING CONCRETE TIE IN NTS





9 DOWNSPOUT CONNECTION NTS

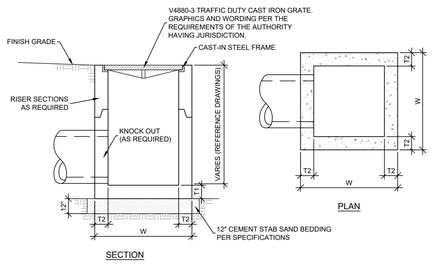


NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.

12 SANITARY SEWER BEDDING & BACKFILL NTS

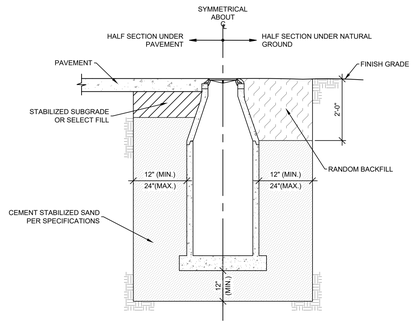
KNOCK OUT	W	GRATE SIZE	T1	T2
10"	15"	12"X12"X1"	3"	2 1/2"
12"	20"	14"X14"X1 1/2"	4"	3"
15"	24"	18"X18"X1 1/2"	4"	4"
17"	26"	20"X20"X1 1/2"	4"	4"
22"	32"	24"X24"X2"	5"	5"
24"	37"	27"X27"X2"	6"	6"
30"	42"	32"X32"X2"	6"	6"
32"	48"	38"X38"X2"	6"	6"
48"	60"	38"X38"X2"	6"	6"
60"	72"	38"X38"X2"	6"	6"
72"	84"	38"X38"X2"	6"	6"
84"	96"	38"X38"X2"	6"	6"

NOTES:
1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS II CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A-615.
3. DEPTH OF INLET SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE INLET.



SECTION

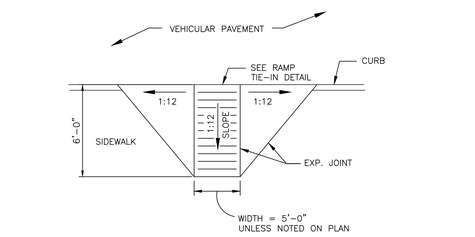
GRATE INLET (ALL NON-PAVED AREAS) N.T.S.



NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR BEDDING AND BACKFILLING OF MANHOLES, INLETS AND OTHER STRUCTURES IN DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED STRUCTURES SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

STORM STRUCTURE BEDDING & BACKFILL N.T.S.

8 PRECAST CONCRETE CATCH BASIN/JUNCTION BOX AND BACKFILL NTS



THE FINISHED SURFACE OF A WHEEL CHAIR RAMP IS TO BE GROOVED LATERALLY WITH 1/4" WIDE BY 1/4" DEEP GROOVES, SPACED 2-1/4" C-C, & ROUGHENED NO LESS THAN A BROOM FINISH TO PREVENT SLIPPING, & TO DIFFERENTIATE TEXTURE FROM THAT OF A STANDARD SIDEWALK.

11 ADA WHEELCHAIR RAMP NTS

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TBPE FIRM NO. F-16423

STATE OF TEXAS
THOMAS
NANTHAVONGDOUANGSY
99284
LICENSED
PROFESSIONAL
ENGINEER
10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
⚠ ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

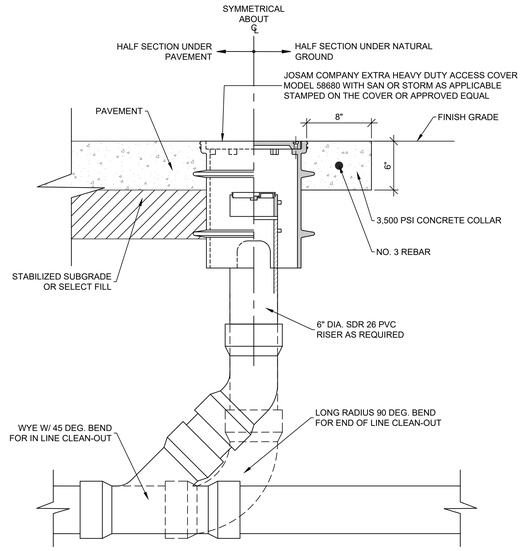
PROJECT NO.
25-0056.00

SHEET TITLE
UTILITY, STORM AND PAVING DETAILS

SHEET NO.
C13.00

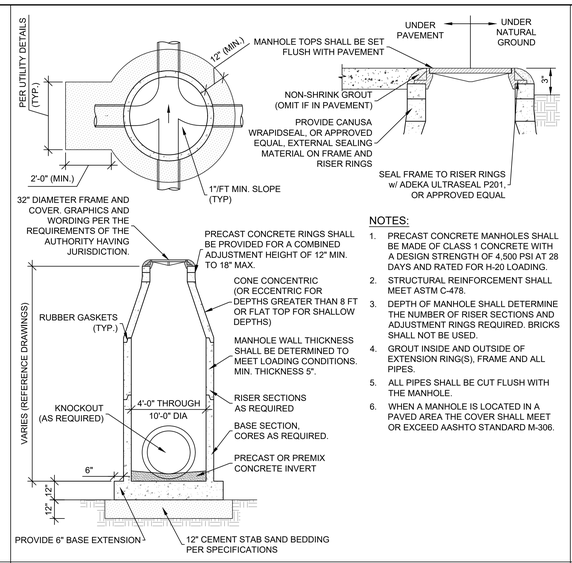
North Shore Multi-use Indoor Facility

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STORM SEWER CLEAN OUT

N.T.S.

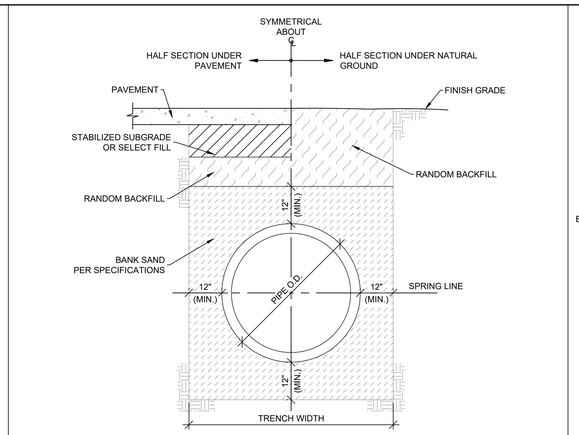


NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S), FRAME AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE MANHOLE.
6. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.

TYPE "C" STORM SEWER MANHOLE

N.T.S.

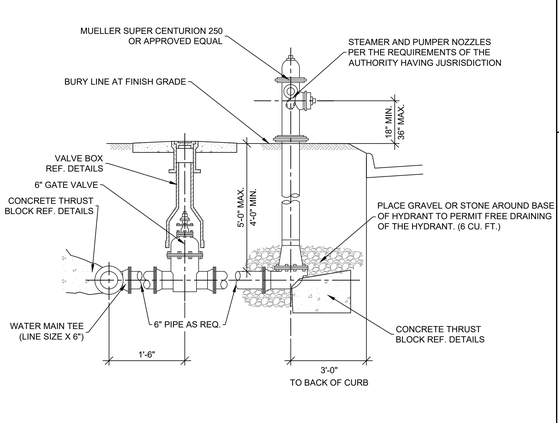


NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.

WATER LINE BEDDING & BACKFILL

N.T.S.

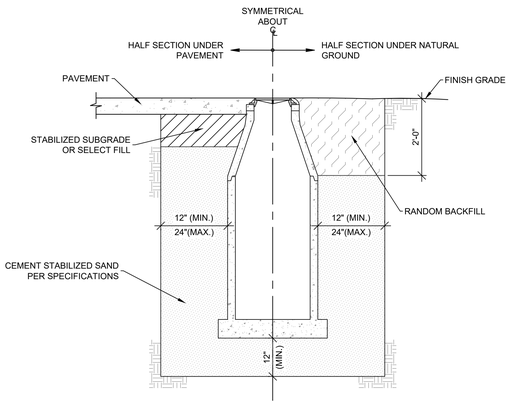


NOTES:

1. 5/8" ALL-THREAD IS TO BE USED TO TIE VALVE TO TEE AND VALVE TO HYDRANT.
2. PROVIDE MECHANICAL RESTRAINED JOINTS (EBBA IRON, SERIES 2000PV, OR APPROVED EQUAL).
3. PAINT ALL FIRE HYDRANTS PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

FIRE HYDRANT

N.T.S.

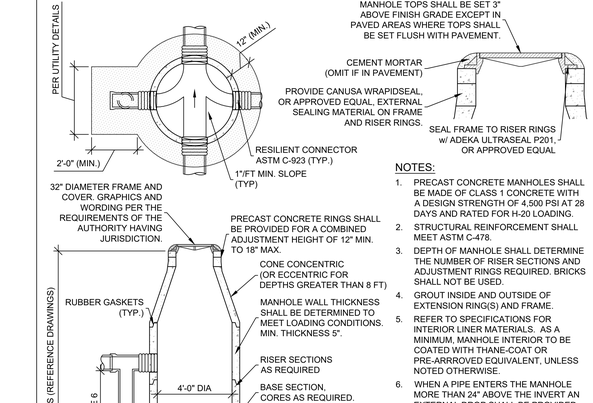


NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR BEDDING AND BACKFILLING OF MANHOLES, CLEAN-OUTS AND OTHER STRUCTURES IN DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED STRUCTURES SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

SANITARY STRUCTURE BEDDING & BACKFILL

N.T.S.

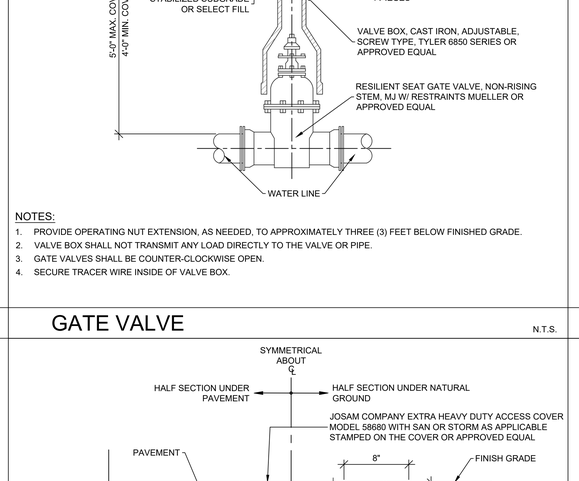


NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND FRAME.
5. REFER TO SPECIFICATIONS FOR INTERIOR LINER MATERIALS. AS A MINIMUM, MANHOLE INTERIOR TO BE COATED WITH THANE-COAT OR PRE-ARRROVED EQUIVALENT, UNLESS NOTED OTHERWISE.
6. WHEN A PIPE ENTERS THE MANHOLE MORE THAN 24" ABOVE THE INVERT AN EXTERNAL DROP SHALL BE PROVIDED.
7. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.
8. ALL MANHOLES SHALL BE PROVIDED WITH A STAINLESS STEEL DISH INSERT.
9. WHEN CONNECTING TO AN EXISTING MANHOLE THE CONNECTION SHALL BE MADE BY CORING.
10. MANHOLES SHALL CONFORM TO ALL TCEQ REQUIREMENTS.

SANITARY SEWER MANHOLE

N.T.S.

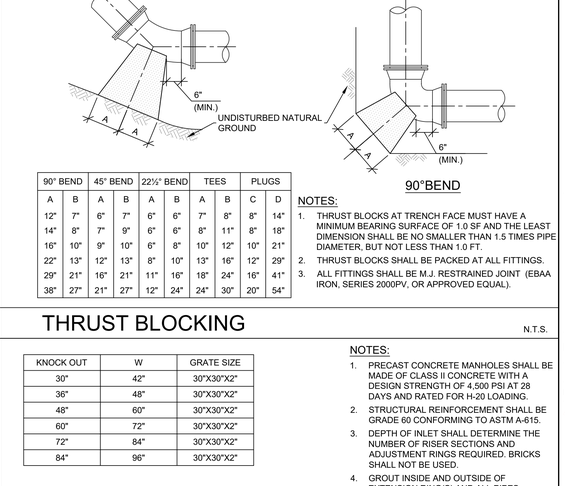


NOTES:

1. PROVIDE OPERATING NUT EXTENSION, AS NEEDED, TO APPROXIMATELY THREE (3) FEET BELOW FINISHED GRADE.
2. VALVE BOX SHALL NOT TRANSMIT ANY LOAD DIRECTLY TO THE VALVE OR PIPE.
3. GATE VALVES SHALL BE COUNTER-CLOCKWISE OPEN.
4. SECURE TRACER WIRE INSIDE OF VALVE BOX.

GATE VALVE

N.T.S.



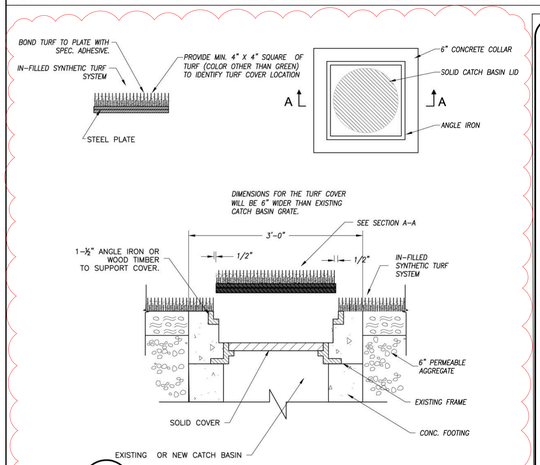
90° BEND		45° BEND		22½° BEND		TEES		PLUGS	
A	B	A	B	A	B	A	B	C	D
12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
14"	8"	7"	9"	6"	6"	8"	11"	8"	18"
16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTES:

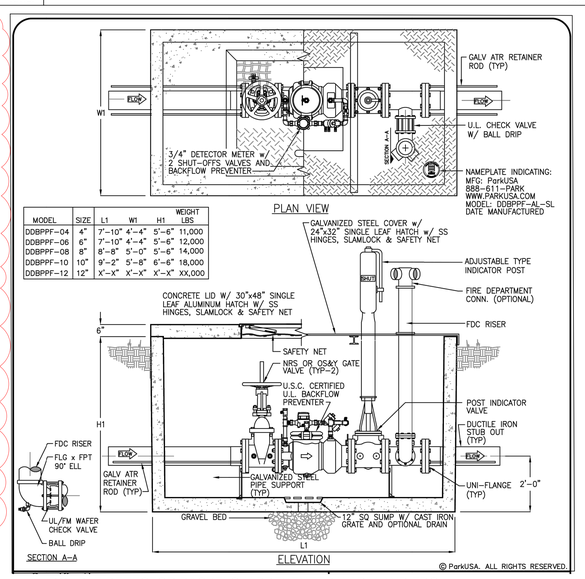
1. THRUST BLOCKS AT TRENCH FACE MUST HAVE A MINIMUM BEARING SURFACE OF 1.0 SF AND THE LEAST DIMENSION SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER, BUT NOT LESS THAN 1.0 FT.
2. THRUST BLOCKS SHALL BE PACKED AT ALL FITTINGS.
3. ALL FITTINGS SHALL BE M.J. RESTRAINED JOINT (EBAA IRON, SERIES 2000PV, OR APPROVED EQUAL).

THRUST BLOCKING

N.T.S.



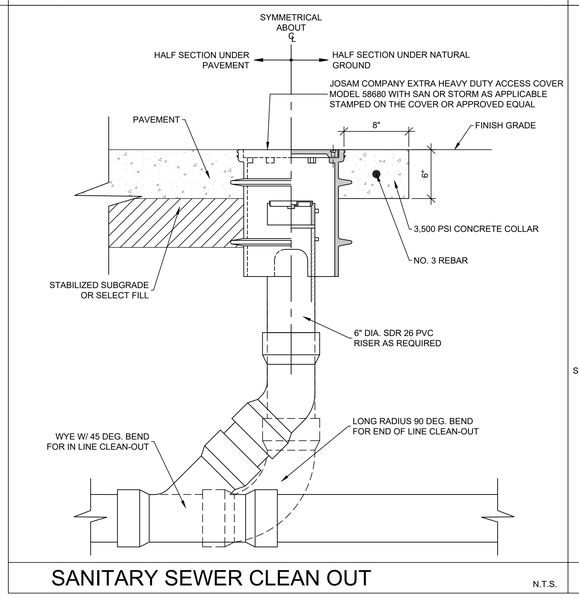
5 F22.14 TURF COVER FOR CATCH BASIN COVER
NOT TO SCALE



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DOUBLE DETECTOR BACKFLOW PREVENTER W/ PIV AND FDC

SCALE: N.T.S.



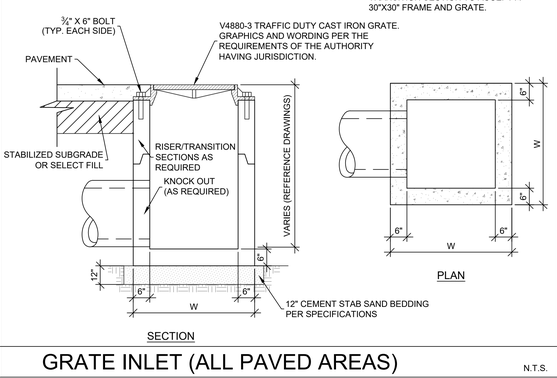
SANITARY SEWER CLEAN OUT

N.T.S.

KNOCK OUT	W	GRATE SIZE
30"	42"	30"X30"X2"
36"	48"	30"X30"X2"
48"	60"	30"X30"X2"
60"	72"	30"X30"X2"
72"	84"	30"X30"X2"
84"	96"	30"X30"X2"

NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS II CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A-615.
3. DEPTH OF INLET SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE INLET.
6. IF BOTTOM SECTION INSIDE DIMENSIONS ARE GREATER THAN 30"X30", PROVIDE A TRANSITION SECTION TO ACCEPT A 30"X30" FRAME AND GRATE.



GRATE INLET (ALL PAVED AREAS)

N.T.S.

ARCHITECT

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CIVIL ENGINEER

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Friendswood, Texas 77546
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https://adico-llc.com/

GALENA PARK ISD
HOUSTON, TX

ADICO, LLC
TBPE FIRM NO. F-16423

DAVID HOWARD HOUSTON, TEXAS 99284 LICENSED PROFESSIONAL ENGINEER
10-08-2025

ISSUED: OCTOBER 08, 2025

REVISIONS

Revision No.	Revision Date
⚠ ADDENDUM 1	10-08-25

Principal DH
Proj. Eng. SN

PROJECT NO.
25-0056.00

SHEET TITLE
MISCELLANEOUS DETAILS

SHEET NO.
C14.00 ⚠

North Shore Multi-use Indoor Facility

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FLOOR PLAN NOTES

1. Primary Ground Level floor elevation is 33.50' (Mean Sea Level), which equals to 100'-0" datum.
2. Dimensions on Floor Plans are to face of stud or CMU unless noted otherwise.
3. Coordinate the location of electrical devices with casework, millwork, lockers, etc. Any electrical device that is not properly coordinated shall be relocated at no additional cost.
4. Exterior wall construction is identified on the Wall Sections. Refer to the A4 series sheets for Wall Sections, and to Sheet A4.11 for Exterior Wall Assemblies.
5. Refer to Exterior Elevation Notes for control joint requirements at all inside corners of masonry veneer.
6. Refer to Sheet A2.21 for Partition Types.
7. Interior partitions are Type "P6" unless noted otherwise.
8. Refer to Detail 4 / A0.21 for Typical Door Maneuvering Clearances. All new doors shall meet the requirements of that detail. If any door is found that does not comply with these requirements, request clarification from the Architect prior to construction.
9. Refer to Sheet 10 / A2.22 for Typical Gypsum Board Control Joint Details at all CFS and light-gage steel stud partition openings.
10. Refer to Sheet A2.22 for Typical Partition Penetration Details, including pipe, conduit and ductwork penetrations.
11. Refer to Sheet A2.22 for Typical Bracing at Non-Loadbearing CMU Partitions.
12. Refer to Exterior Elevations for exact locations of downspouts.
13. Provide factory bullnose units at all interior exposed vertical edges of CMU, except at starter course with applied base material where square-edge units shall be provided in lieu of bullnose units.
14. Provide 8" starter courses at all CMU walls and partitions unless noted otherwise.
15. Provide steel or masonry lintels over all openings in CMU walls, including those required for mechanical ductwork and dampers, whether specifically indicated on the drawings or not.
16. Provide minimum 20 gage (33 mils) light-gage steel studs at all interior partitions scheduled to receive ceramic tile, plaster, abuse-resistant gyp board or impact-resistant gyp board.
17. Provide minimum 18 (43 mils) gage cold-formed steel studs at all interior partitions scheduled to receive anchored masonry or stone veneer as well as interior partitions with steel plate or steel sheet X-bracing.
18. Provide minimum 18 gage (43 mils) cold-formed steel studs as designed by stud engineer for all interior partiti1ons scheduled to receive adhered masonry or stone veneer.
19. At light-gage steel stud partitions that extend above the ceiling, provide diagonal 20 (30 mils) gage stud braces at 4'-0" o.c. to structure above (not to steel deck) as required to provide rigid anchorage and support of partitions.
20. Provide minimum 2 X 6 fire-retardant treated wood blocking in both new and existing stud walls and partitions, at mounting locations for wall-mounted accessories, handrails, casework, markerboards, tackboards, folding partitions, toilet partitions, and all other wall-mounted items. Refer to Sheet 12 / A2.22for typical blocking requirements at various conditions.
21. At Mechanical, Electrical and Boiler Room partitions, seal tightly around all penetrations. Utilize fire safing material at rated partitions.
22. Provide sealant and/or fire safing at all floor penetrations, as applicable.

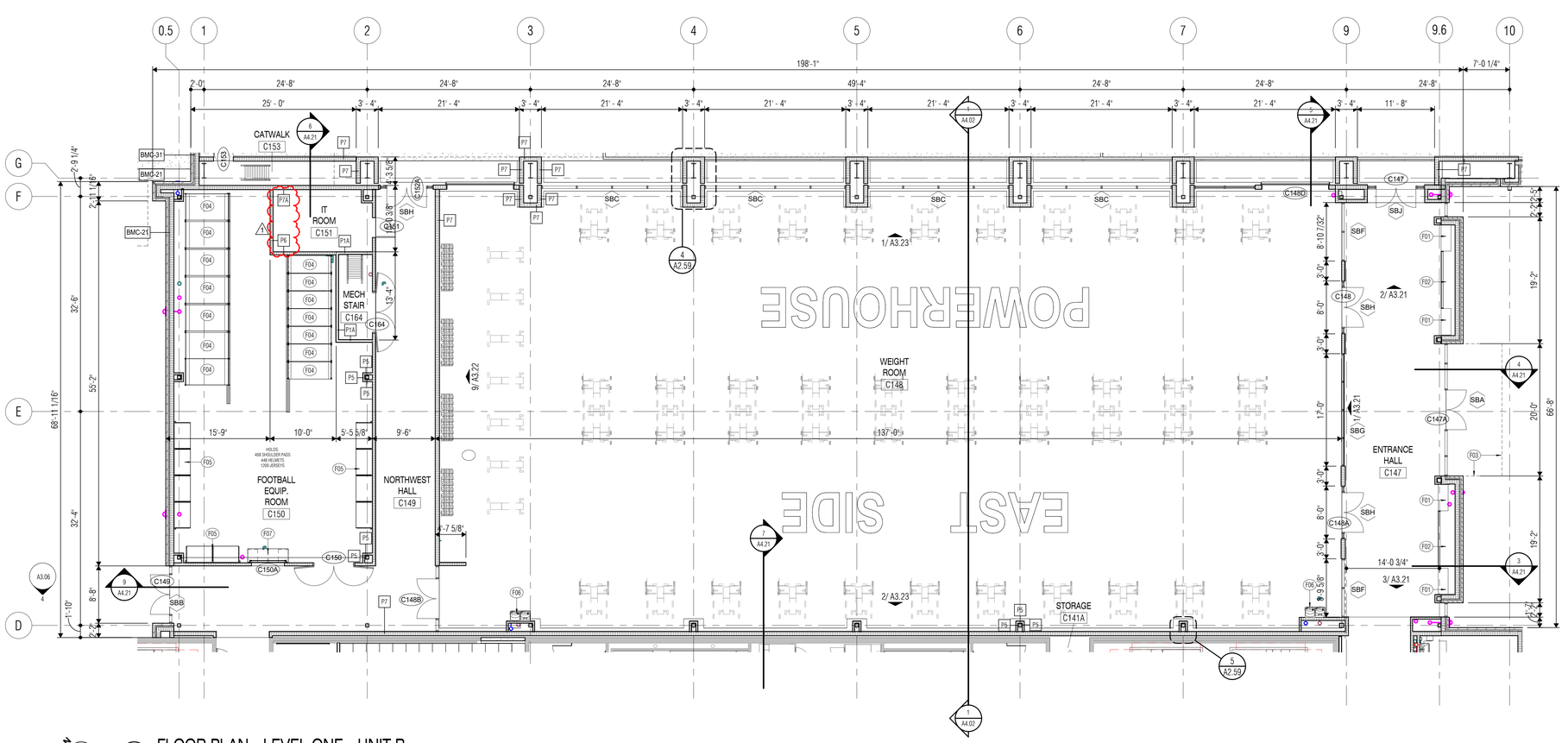
FLOOR PLAN LEGEND

- METAL STUD PARTITION. Extend 4" above highest ceiling plane and brace to structure above as noted in Floor Plan Notes. Refer to Life Safety and Floor Plan sheets for fire, smoke and sound-conditioned partitions that extend to deck above.
- CMU PARTITION. Extend 4" above highest ceiling plane and brace to structure above as detailed. Refer to Life Safety and Floor Plan sheets for fire, smoke and sound-conditioned partitions that extend to deck above.
- LOCKER TYPE (LKA-4) — For locker types, ref. 1 / A2.23 — LOCKER QUANTITY
- FURNITURE, FIXTURE OR EQUIPMENT BY OWNER. Coordinate with adjacent electrical devices, casework, etc.
- 18 / 36 — METAL SHELVING UNIT. Depth/width as shown.

MB	MARKERBOARD. Preceding number is length, in feet.
GMB	GLASS MARKERBOARD. Preceding number is length, in feet.
TB	TACKBOARD. Preceding number is length, in feet.
MW	MARKERWALL. Refer to Finish Plans for dimensions.
FEC	FIRE EXTINGUISHER WITH CABINET AND BRACKET
HB	HORIZONTAL BLINDS; EXCLUDE ALL TRANSOMS
RS	ROLLING WINDOW SHADES
DS	DOWNSPOUT

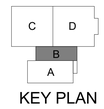
KEY NOTE SCHEDULE

NUMBER	NOTE TEXT
F01	DISPLAY CASE; REF. CONSULTANT DWGS
F02	DIGITAL SIGNAGE DISPLAY; REF. CONSULTANT DWGS
F03	PREFABRICATED WALKWAY COVER ABOVE
F04	HIGH DENSITY STORAGE
F05	WALL MOUNTED ATHLETIC SHELVING
F06	DRINKING FOUNTAIN WITH BOTTLE FILLER
F07	MODULAR CASEWORK; REF. CONSULTANT DWGS



TRUE NORTH

1 FLOOR PLAN - LEVEL ONE - UNIT B
SCALE: 1/8" = 1'-0"



KEY PLAN

ARCHITECT

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20445 State Hwy 249, Suite 350
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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

MONIKA C. CASTILLO — REGISTERED ARCHITECT — 26558 — STATE OF TEXAS
10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

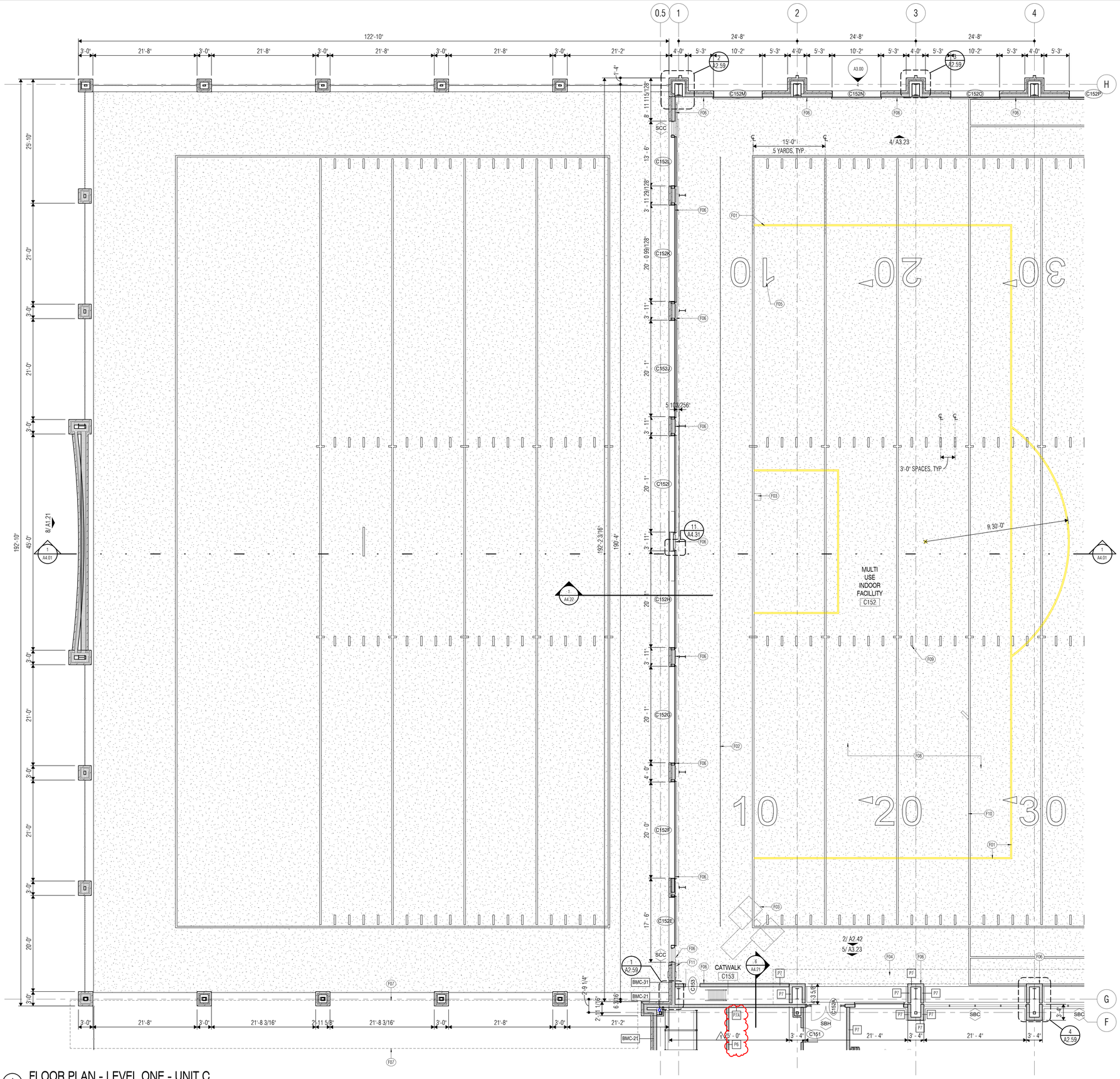
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
FLOOR PLAN - LEVEL ONE - UNIT B

SHEET NO.
A2.11B

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FLOOR PLAN NOTES

1. Primary Ground Level floor elevation is 33.50' (Mean Sea Level), which equals to 100'-0" datum.
2. Dimensions on Floor Plans are to face of stud or CMU unless noted otherwise.
3. Coordinate the location of electrical devices with casework, millwork, lockers, etc. Any electrical device that is not properly coordinated shall be relocated at no additional cost.
4. Exterior wall construction is identified on the Wall Sections. Refer to the A4 series sheets for Wall Sections, and to Sheet A4.11 for Exterior Wall Assemblies.
5. Refer to Exterior Elevation Notes for control joint requirements at all inside corners of masonry veneer.
6. Refer to Sheet A2.21 for Partition Types.
7. Interior partitions are Type "P6" unless noted otherwise.
8. Refer to Detail 4 / A0.21 for Typical Door Maneuvering Clearances. All new doors shall meet the requirements of that detail. If any door is found that does not comply with these requirements, request clarification from the Architect prior to construction.
9. Refer to Sheet 10 / A2.22 for Typical Gypsum Board Control Joint Details at all CFS and light-gage steel stud partition openings.
10. Refer to Sheet A2.22 for Typical Partition Penetration Details, including pipe, conduit and ductwork penetrations.
11. Refer to Sheet A2.22 for Typical Bracing at Non-Loadbearing CMU Partitions.
12. Refer to Exterior Elevations for exact locations of downspouts.
13. Provide factory bullnose units at all interior exposed vertical edges of CMU, except at starter course with applied base material where square-edge units shall be provided in lieu of bullnose units.
14. Provide 8" starter courses at all CMU walls and partitions unless noted otherwise.
15. Provide steel or masonry lintels over all openings in CMU walls, including those required for mechanical ductwork and dampers, whether specifically indicated on the drawings or not.
16. Provide minimum 20 gage (33 mils) light-gage steel studs at all interior partitions scheduled to receive ceramic tile, plaster, abuse-resistant gyp board or impact-resistant gyp board.
17. Provide minimum 18 (43 mils) gage cold-formed steel studs at all interior partitions scheduled to receive anchored masonry or stone veneer as well as interior partitions with steel plate or steel sheet X-bracing.
18. Provide minimum 18 gage (43 mils) cold-formed steel studs as designed by stud engineer for all interior partiti1ons scheduled to receive adhered masonry or stone veneer.
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20. Provide minimum 2 X 6 fire-retardant treated wood blocking in both new and existing stud walls and partitions, at mounting locations for wall-mounted accessories, handrails, casework, markerboards, tackboards, folding partitions, toilet partitions, and all other wall-mounted items. Refer to Sheet 12 / A2.22for typical blocking requirements at various conditions.
21. At Mechanical, Electrical and Boiler Room partitions, seal tightly around all penetrations. Utilize fire safing material at rated partitions.
22. Provide sealant and/or fire safing at all floor penetrations, as applicable.

FLOOR PLAN LEGEND

- METAL STUD PARTITION. Extend 4" above highest ceiling plane and brace to structure above as noted in Floor Plan Notes. Refer to Life Safety and Floor Plan sheets for fire, smoke and sound-conditioned partitions that extend to deck above.
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  - For locker types, ref. 1 / A2.23
  - LOCKER QUANTITY
- FURNITURE, FIXTURE OR EQUIPMENT BY OWNER. Coordinate with adjacent electrical devices, casework, etc.
- 18 / 36 — METAL SHELVING UNIT. Depth/width as shown.

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GMB	GLASS MARKERBOARD. Preceding number is length, in feet.
TB	TACKBOARD. Preceding number is length, in feet.
MW	MARKERWALL. Refer to Finish Plans for dimensions.
FEC	FIRE EXTINGUISHER WITH CABINET AND BRACKET
HB	HORIZONTAL BLINDS; EXCLUDE ALL TRANSOMS
RS	ROLLING WINDOW SHADES
DS	DOWNSPOUT

KEY NOTE SCHEDULE

NUMBER	NOTE TEXT
F01	4" WIDE INLAID SOCCER STRIPING (YELLOW)
F02	MOTORIZED DROP DOWN NETTING
F03	BASEBALL INFIELD STRIPING (BLACK)
F04	CATWALK ABOVE
F05	INLAID YARDAGE BLOCK NUMBERS, (WHITE) TYP.
F06	7' TALL WALL PADS AT ALL EXPOSED WALLS, TYP.
F07	PREFABRICATED WALKWAY COVER ABOVE
F08	SYNTHETIC TURF
F09	INBOUND LINES INLAID (WHITE) TYP.
F10	INLAID YARDLINE MARKERS, (WHITE) TYP.
F11	TIME CLOCK; SYNC WITH ALL TIMERS, COORDINATE MOUNTING HEIGHT WITH OWNER

TRUE NORTH

1 FLOOR PLAN - LEVEL ONE - UNIT C
SCALE: 1/8" = 1'-0"

KEY PLAN

VLK

ARCHITECT

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20445 State Hwy 249, Suite 350
Houston, Texas 77070
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www.vlkarchitects.com

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT MONIKA C. CASTILLO 26558 STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

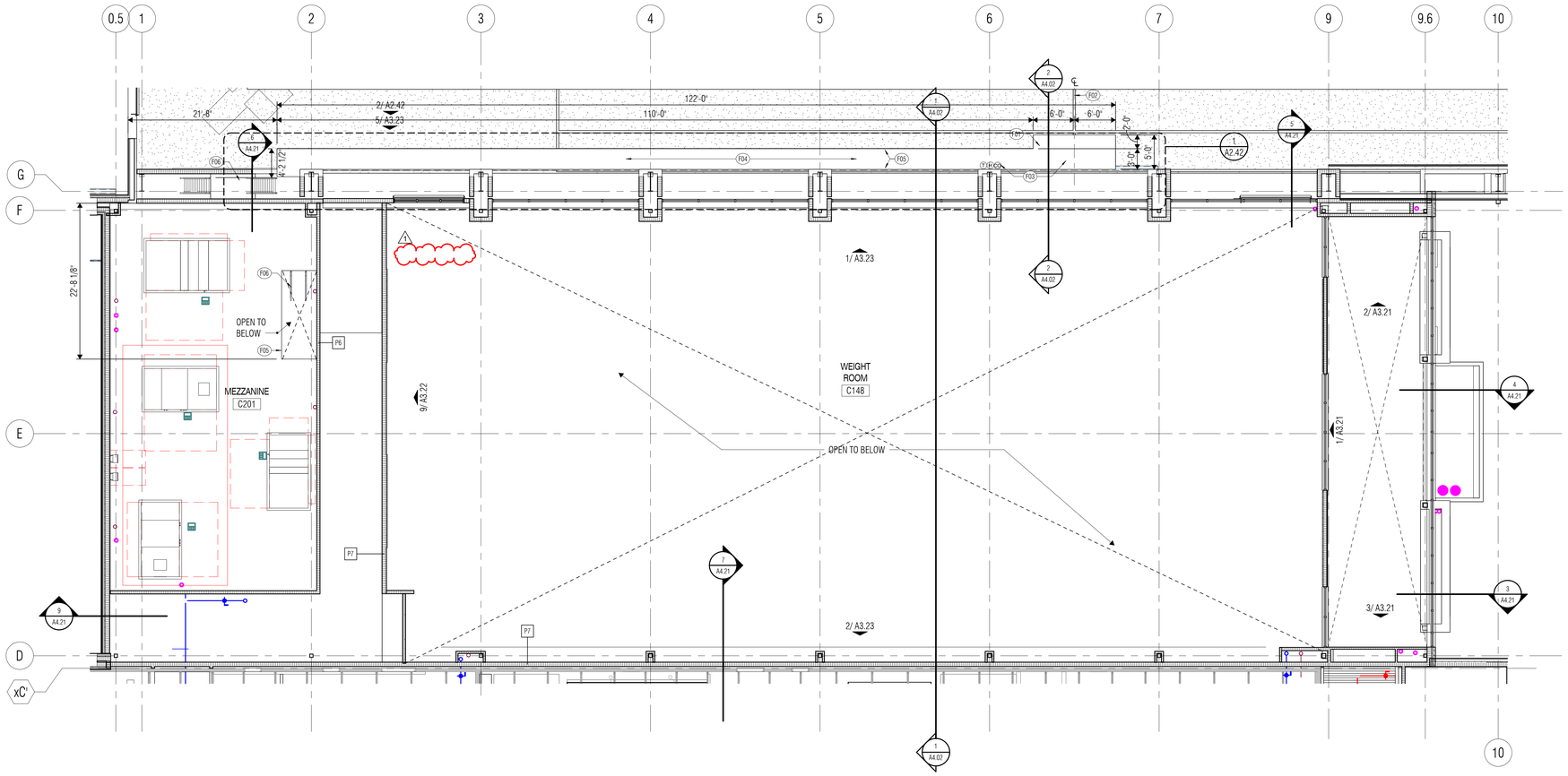
SHEET TITLE

FLOOR PLAN - LEVEL ONE - UNIT C

SHEET NO.

A2.11C

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TRUE NORTH

1 FLOOR PLAN - LEVEL TWO - UNIT B

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

FLOOR PLAN NOTES

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MW	MARKERWALL. Refer to Finish Plans for dimensions.
FEC	FIRE EXTINGUISHER WITH CABINET AND BRACKET
HB	HORIZONTAL BLINDS; EXCLUDE ALL TRANSOMS
RS	ROLLING WINDOW SHADES
DS	DOWNSPOUT

KEY NOTE SCHEDULE

NUMBER	NOTE TEXT
F01	OBSERVATION DECK
F02	ALIGN CENTER OF OBESERVATION DECK TO 50 YARD LINE
F03	1/4" STEEL PLATE WELDED TO FRAME, REF. STRUCTURAL
F04	CATWALK
F05	36" HIGH RAIL; 1 1-/" STEEL PIPE GUARDRAIL
F06	SHIPS LADDER

KEY PLAN

ARCHITECT

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20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
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GALENA PARK ISD
HOUSTON, TEXAS

REGISTERED ARCHITECT MONIKA C. CASTILLO 26558 STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

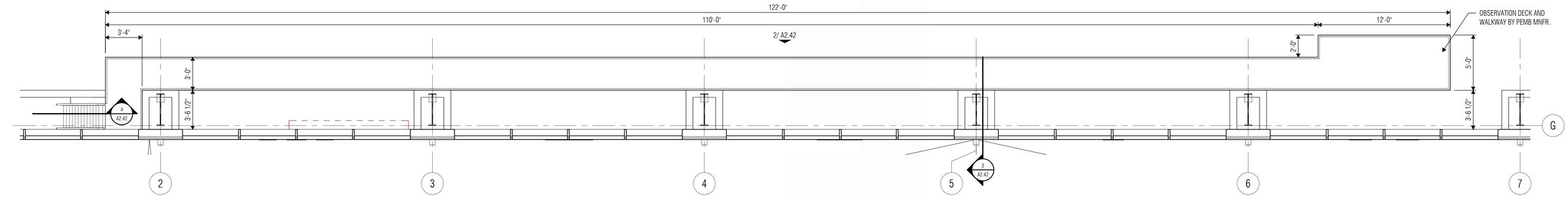
FLOOR PLAN - LEVEL TWO - UNIT B

SHEET NO.

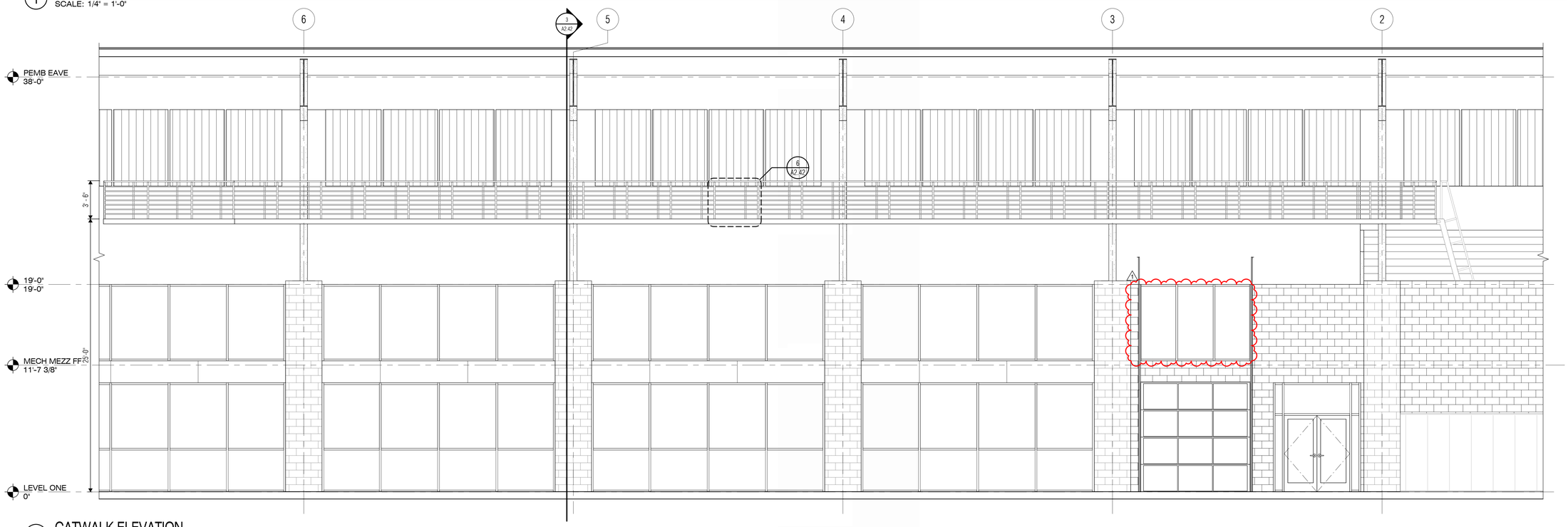
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North Shore Multi-Use Indoor Facility

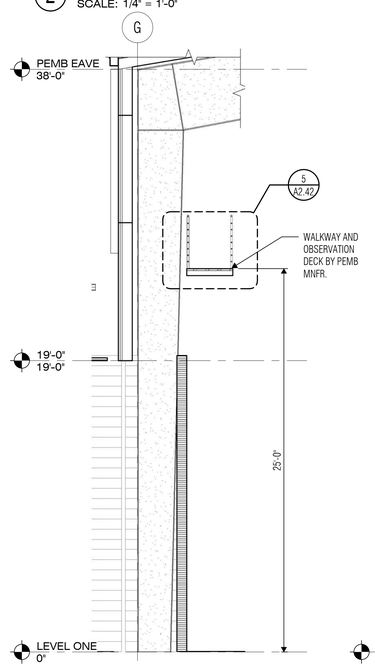
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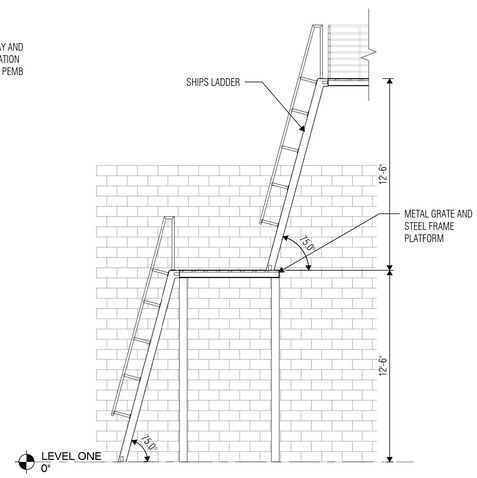
1 CATWALK - PLAN
SCALE: 1/4" = 1'-0"



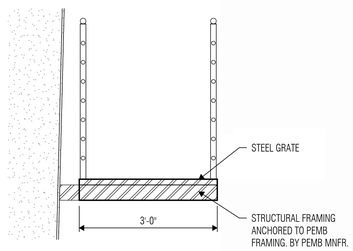
2 CATWALK ELEVATION
SCALE: 1/4" = 1'-0"



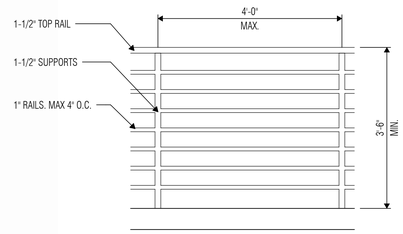
3 CATWALK - SECTION
SCALE: 1/4" = 1'-0"



4 Section 6
SCALE: 1/4" = 1'-0"



5 CATWALK DETAIL
SCALE: 3/4" = 1'-0"



6 CATWALK - RAIL ELEVATION
SCALE: 3/4" = 1'-0"

ARCHITECT

VLK
20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT
MONIKA C. CASTILLO
26558
STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

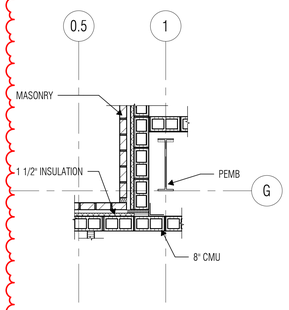
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

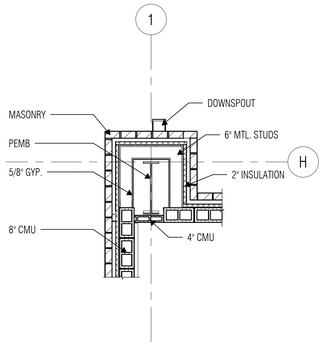
SHEET TITLE
ENLARGED CATWALK PLANS & SECTIONS

SHEET NO.
A2.42

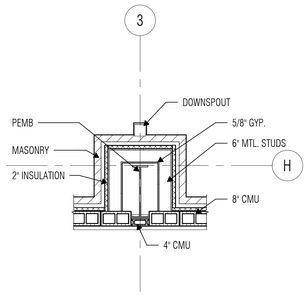
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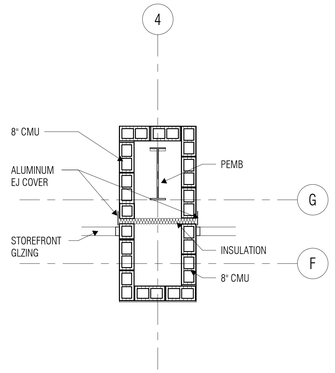
1 PLAN DETAIL
SCALE: 3/8" = 1'-0"



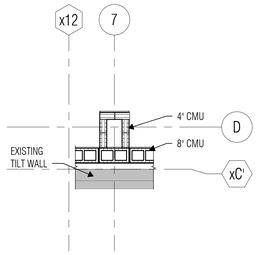
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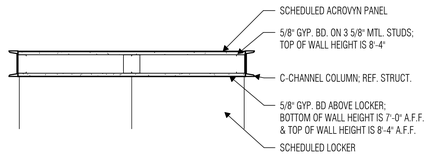
3 PLAN DETAIL
SCALE: 3/8" = 1'-0"



4 PLAN DETAIL
SCALE: 3/8" = 1'-0"



5 PLAN DETAIL
SCALE: 3/8" = 1'-0"



6 ENLARGED PLAN DETAIL @ LOCKER END PANEL
SCALE: 1" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT
MONIKA C. CASTILLO
26558
STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
PLAN DETAILS

SHEET NO.
A2.59

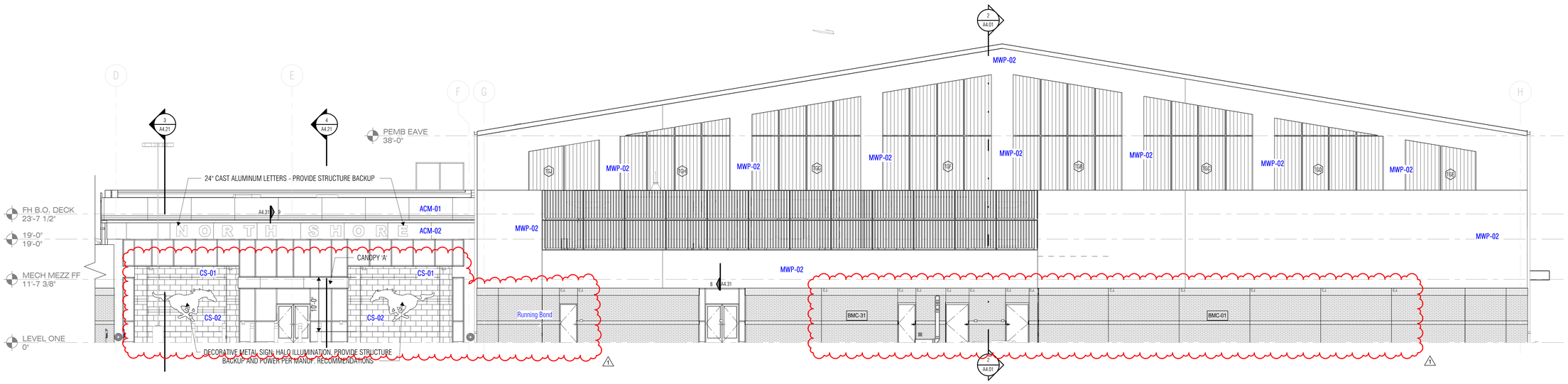
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EXTERIOR ELEVATION LEGEND

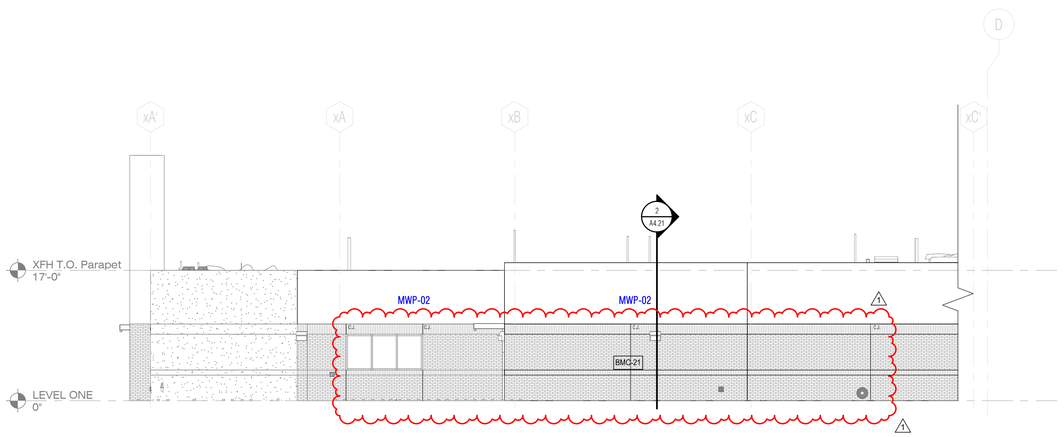
A	BRICK VENEER, TYPE 'A'
B	BRICK VENEER, TYPE 'B'
DS	DOWNSPOUT
OS	OVERFLOW SCUPPER, REF.
CJ	CONTROL JOINT, REF. 1/A3.11 & 3/A3.11
EJ	EXPANSION JOINT, REF.
SFX	ALUMINUM STOREFRONT, REF. SHEET A7.__
SFX	ALUMINUM CURTAIN WALL, REF. SHEET A7.__

EXTERIOR ELEVATION NOTES

1. Refer to Sheet A3.11 for Typical Control Joint and Building Expansion Joint Details.
2. Based on the applicable design criteria, submit the proposed pattern of control joints in masonry veneer, CMU and stucco/cement plaster to the Architect for review and approval prior to construction.
3. Verify mounting heights of all Electrical and Mechanical items on the exterior of the building prior to construction, whether specifically indicated on the Exterior Elevations or not.
4. Install cast stone in accordance with the recommendations of the Cast Stone Institute, unless specifically noted or detailed otherwise.
5. Refer to Sheet A3.11 for Loose Lintel Details. Refer to Structural Drawings for maximum span and bearing requirements.
6. Terminate recessed and projected masonry veneer courses at 4" from intersecting window frames, door frames, sloping roofs, etc., unless noted otherwise.
7. Provide solid bricks for soldier courses at exterior corners (do not miter). Refer to Detail - / ---



1 EXTERIOR ELEVATION - UNIT B & D - EAST
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - UNIT A - EAST
SCALE: 1/8" = 1'-0"

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North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT
MONIKA C. CASTILLO
26558
STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

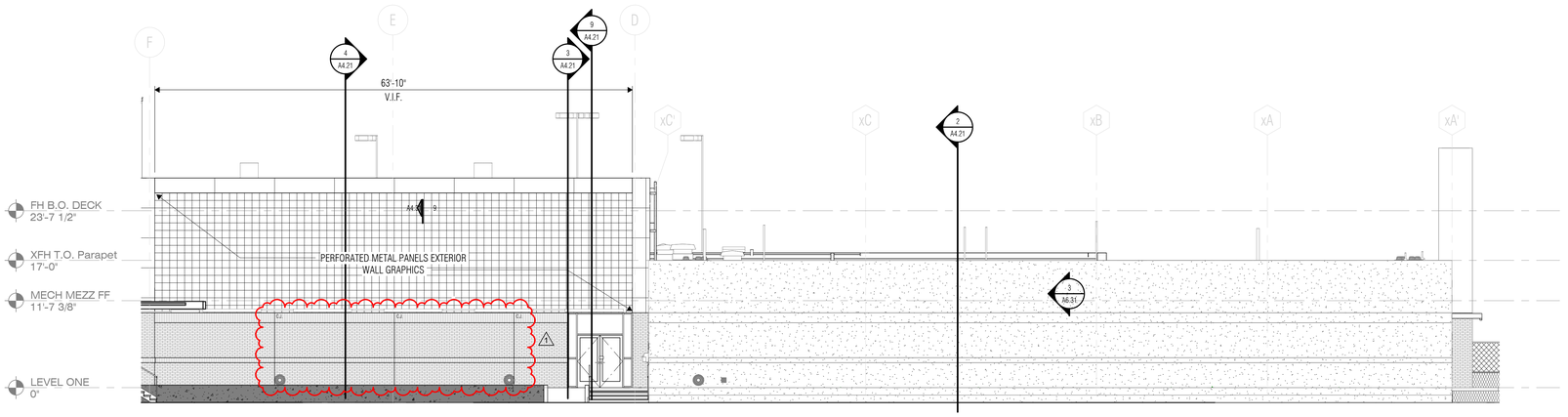
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
EXTERIOR ELEVATIONS

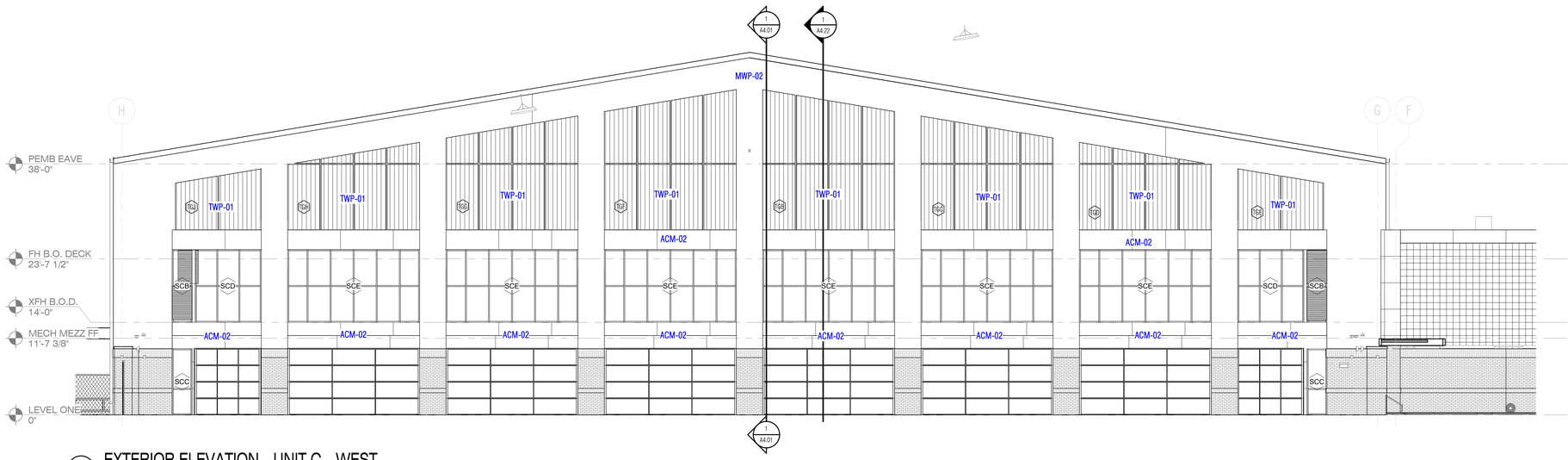
SHEET NO.
A3.01

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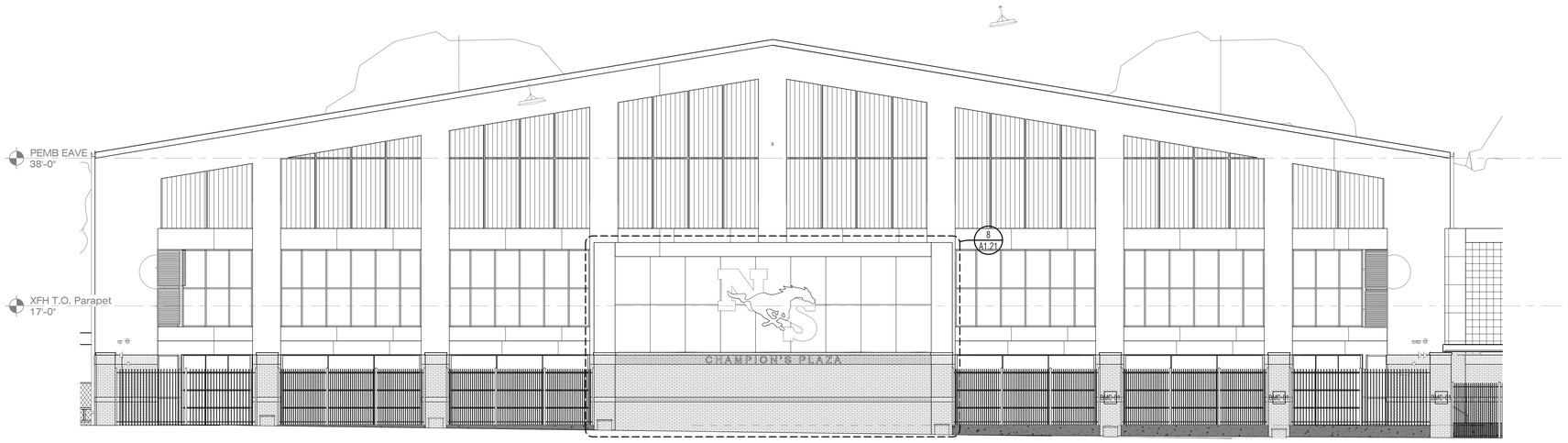
1 EXTERIOR ELEVATION - UNIT B & A - WEST

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



2 EXTERIOR ELEVATION - UNIT C - WEST

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



3 EXTERIOR ELEVATION - CHAMPIONS PLAZA

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

EXTERIOR ELEVATION NOTES

1. Refer to Sheet A3.11 for Typical Control Joint and Building Expansion Joint Details.
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3. Verify mounting heights of all Electrical and Mechanical items on the exterior of the building prior to construction, whether specifically indicated on the Exterior Elevations or not.
4. Install cast stone in accordance with the recommendations of the Cast Stone Institute, unless specifically noted or detailed otherwise.
5. Refer to Sheet A3.11 for Loose Lintel Details. Refer to Structural Drawings for maximum span and bearing requirements.
6. Terminate recessed and projected masonry veneer courses at 4" from intersecting window frames, door frames, sloping roofs, etc., unless noted otherwise.
7. Provide solid bricks for soldier courses at exterior corners (do not miter). Refer to Detail - / ---

EXTERIOR ELEVATION LEGEND

A	BRICK VENEER, TYPE 'A'	
B	BRICK VENEER, TYPE 'B'	
DS	DOWNSPOUT	
OS	OVERFLOW SCUPPER, REF.	
CJ	CONTROL JOINT, REF.	1/A3.11 & 3/A3.11
EJ	EXPANSION JOINT, REF.	
SFX	ALUMINUM STOREFRONT, REF. SHEET A7.__	
SFX	ALUMINUM CURTAIN WALL, REF. SHEET A7.__	

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MONIKA C. CASTILLO
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STATE OF TEXAS

10/08/2025

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1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

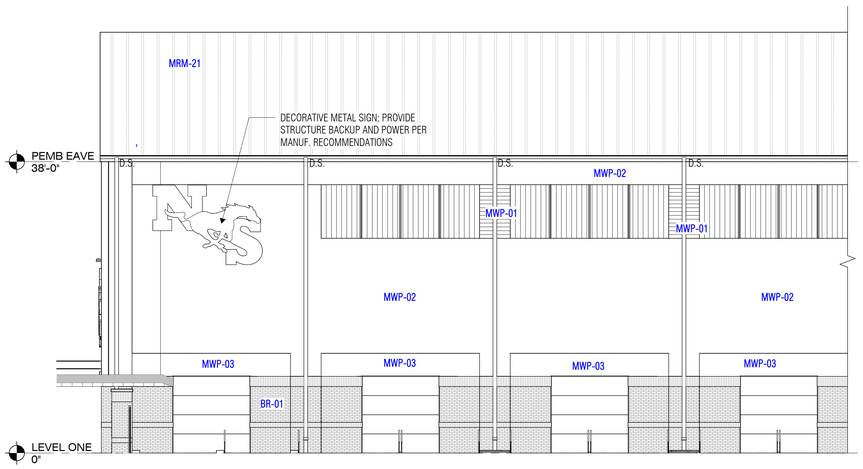
SHEET TITLE

EXTERIOR ELEVATIONS

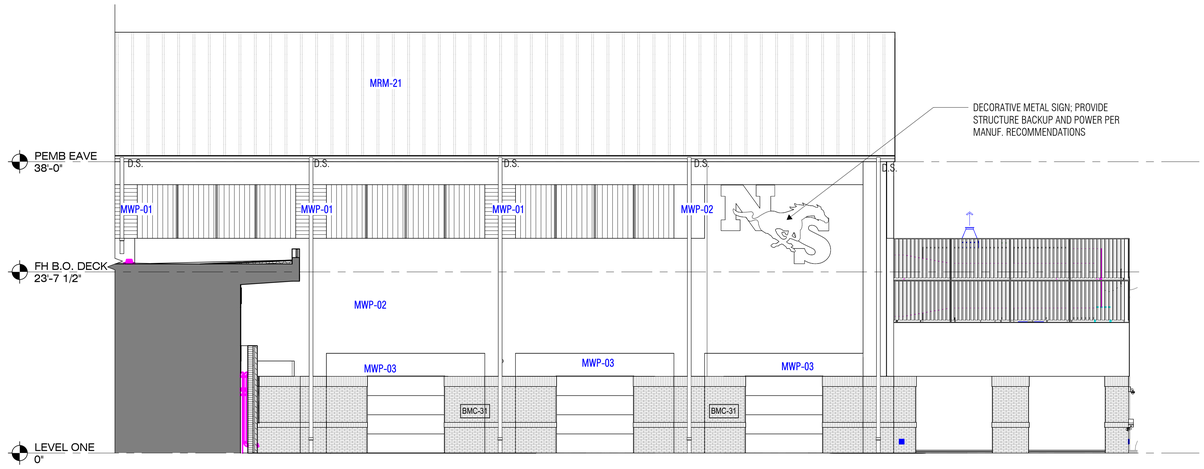
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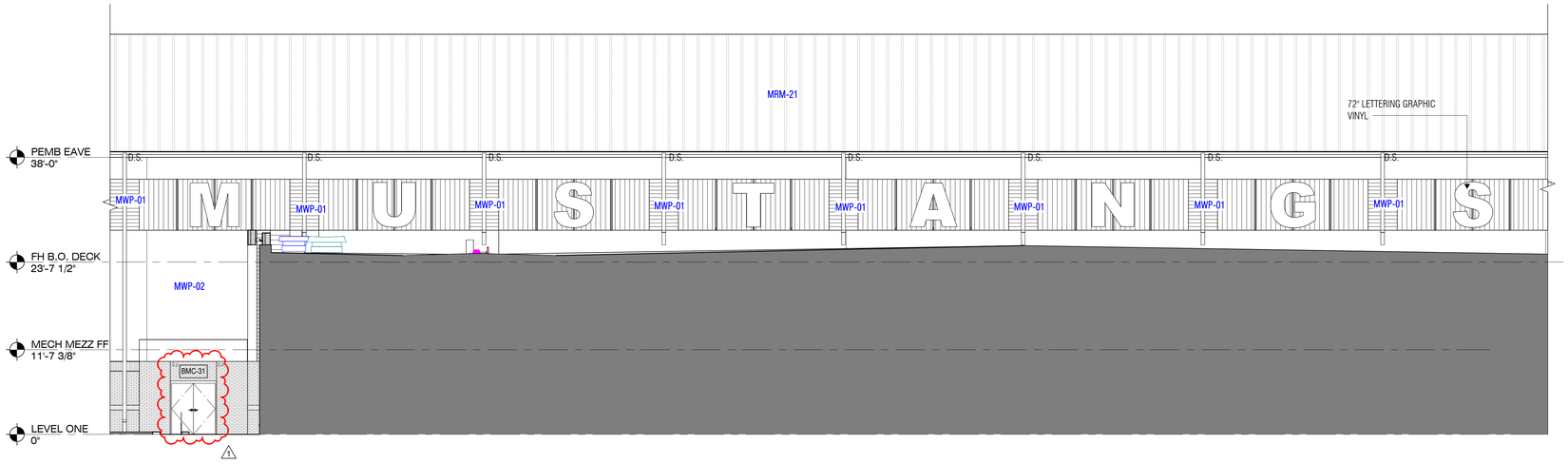
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1 EXTERIOR ELEVATION - UNIT D - SOUTH A (ALTERNATE)
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - UNIT D - SOUTH C (ALTERNATE)
SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - UNIT D - SOUTH B (ALTERNATE)
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION NOTES

1. Refer to Sheet A3.11 for Typical Control Joint and Building Expansion Joint Details.
2. Based on the applicable design criteria, submit the proposed pattern of control joints in masonry veneer, CMU and stucco/cement plaster to the Architect for review and approval prior to construction.
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EXTERIOR ELEVATION LEGEND

A	BRICK VENEER, TYPE 'A'	
B	BRICK VENEER, TYPE 'B'	
DS	DOWNSPOUT	
OS	OVERFLOW SCUPPER, REF.	
CJ	CONTROL JOINT, REF.	1/A3.11 & 3/A3.11
EJ	EXPANSION JOINT, REF.	
SFX	ALUMINUM STOREFRONT, REF. SHEET A7.__	
SFX	ALUMINUM CURTAIN WALL, REF. SHEET A7.__	

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10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

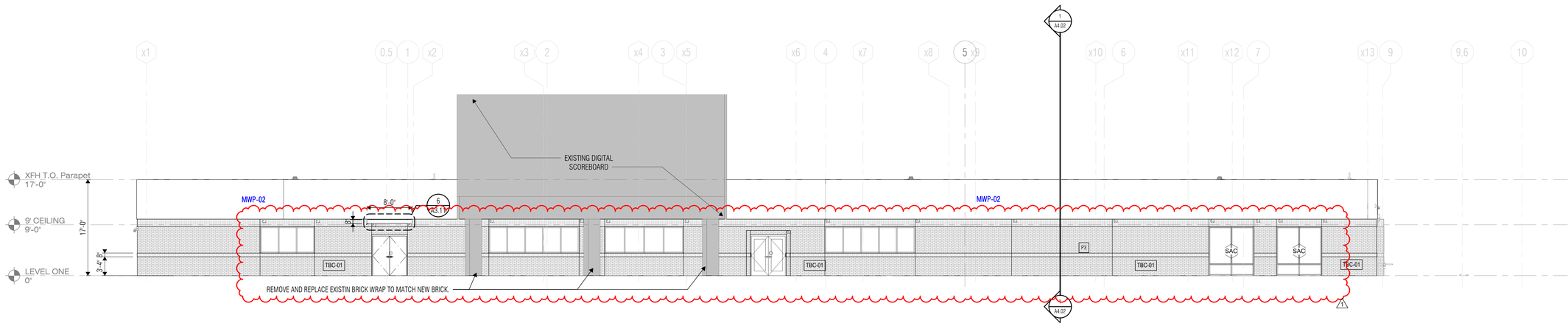
SHEET TITLE
EXTERIOR ELEVATIONS - (ALTERNATE)

SHEET NO.
A3.04

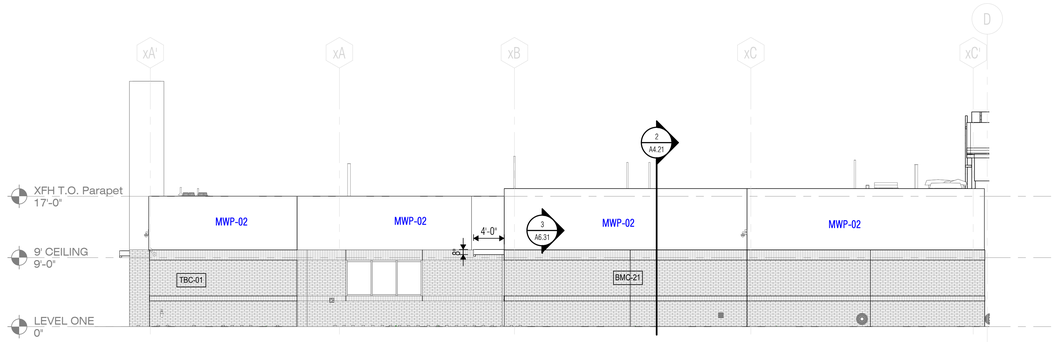
North Shore Multi-Use Indoor Facility

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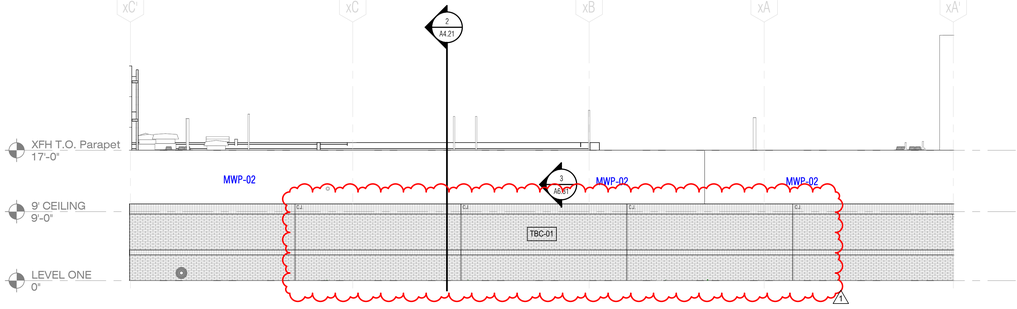
ALTERNATE: PROVIDE THIN BRICK CLADDING AND METAL PANEL OVER HAT CHANNELS ON EXISTING TILT-UP WALLS.



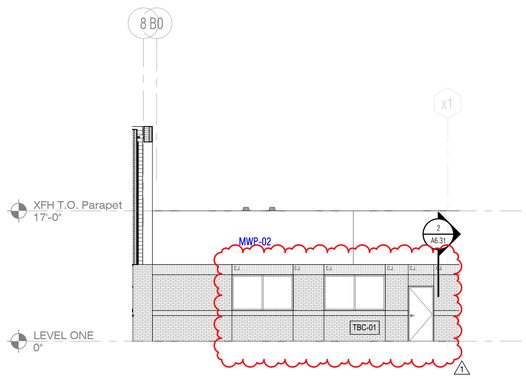
1 EXTERIOR ELEVATION - UNIT A - EAST (ALTERNATE)
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - UNIT A - SOUTH (ALTERNATE)
SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - UNIT A - NORTH (ALTERNATE)
SCALE: 1/8" = 1'-0"



4 EXTERIOR ELEVATION - UNIT A - WEST (ALTERNATE)
SCALE: 1/8" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

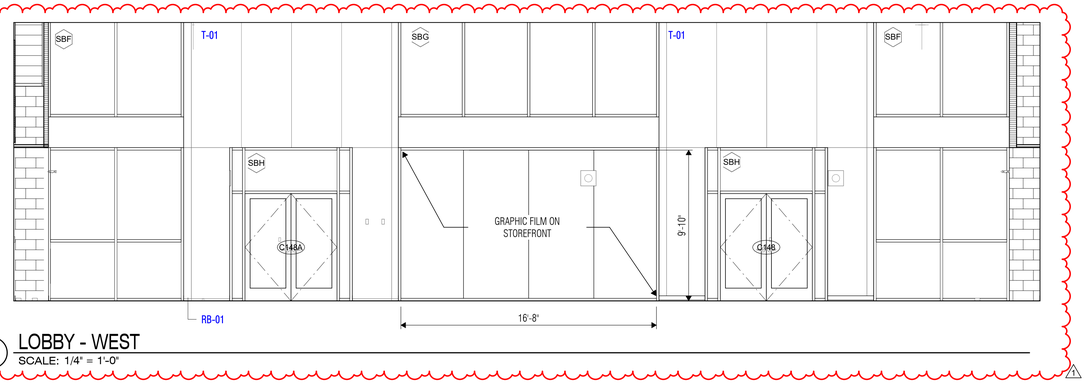
EXTERIOR ELEVATIONS - (RECLAD ALTERNATE)

SHEET NO.

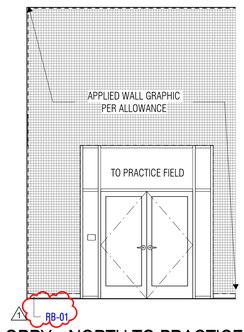
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North Shore Multi-Use Indoor Facility

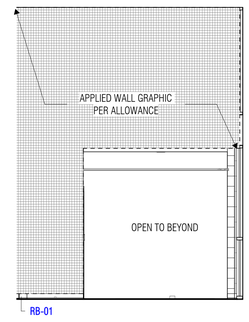
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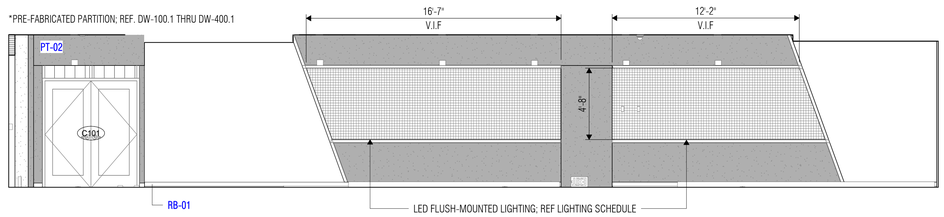
1 LOBBY - WEST
SCALE: 1/4" = 1'-0"



2 LOBBY - NORTH TO PRACTICE FIELD
SCALE: 1/4" = 1'-0"



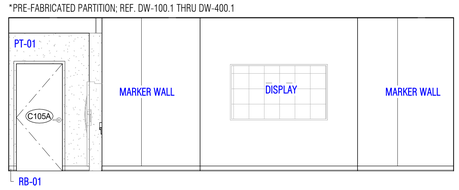
3 LOBBY - EAST TO LOUNGE
SCALE: 1/4" = 1'-0"



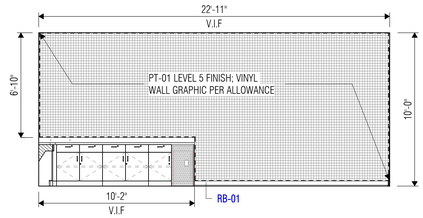
4 HALL C142 - WEST
SCALE: 1/4" = 1'-0"



5 HALL C142 - EAST
SCALE: 1/4" = 1'-0"



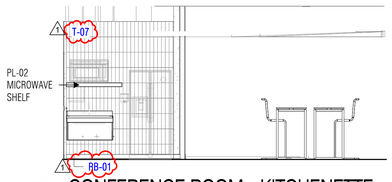
6 CONFERENCE ROOM - WEST
SCALE: 1/4" = 1'-0"



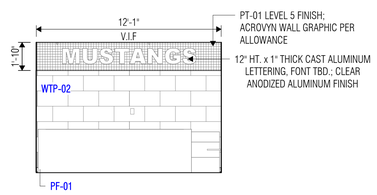
7 CONFERENCE ROOM - SOUTH
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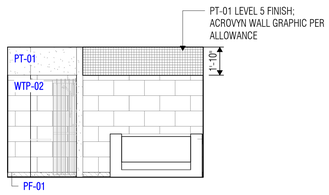
8 CONFERENCE ROOM - EAST
SCALE: 1/4" = 1'-0"



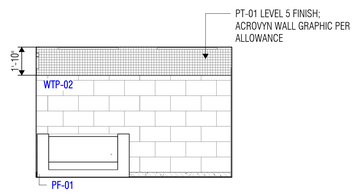
9 CONFERENCE ROOM - KITCHENETTE
SCALE: 1/4" = 1'-0"



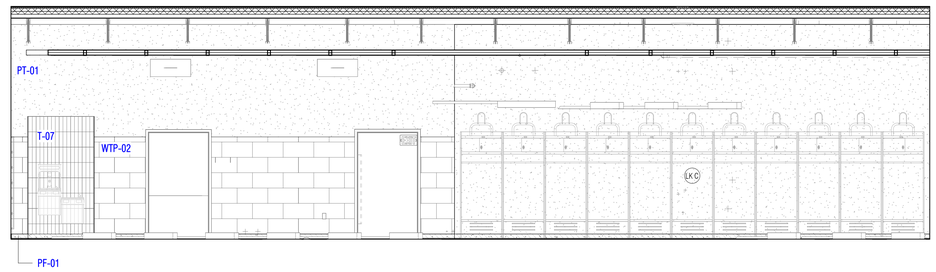
10 ICE BATH C139 - NORTH
SCALE: 1/4" = 1'-0"



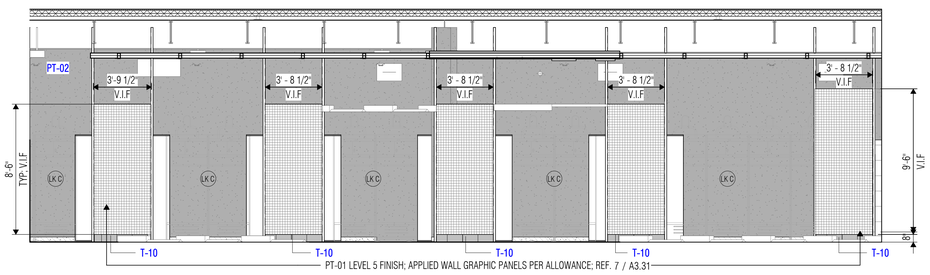
11 ICE BATH C139 - WEST
SCALE: 1/4" = 1'-0"



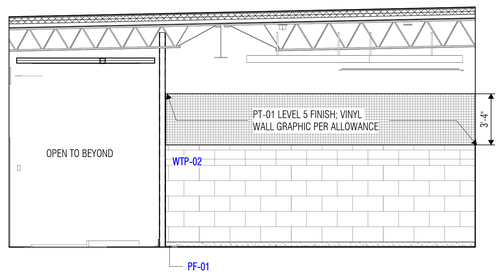
12 ICE BATH C139 - EAST
SCALE: 1/4" = 1'-0"



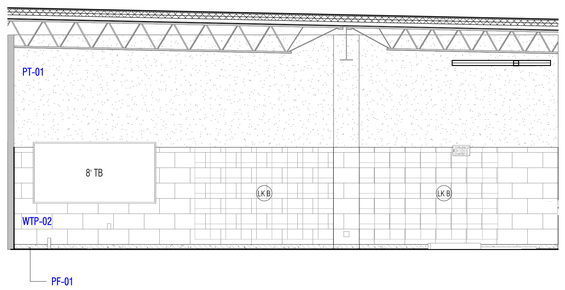
13 VARSITY LOCKER ROOM - NORTH
SCALE: 1/4" = 1'-0"



14 VARSITY LOCKER ROOM - LOCKER END PANELS
SCALE: 1/4" = 1'-0"



15 VARISTY LOCKER ROOM - ENTRY EAST
SCALE: 1/4" = 1'-0"



16 VARSITY LOCKER ROOM - ENTRY WEST
SCALE: 1/4" = 1'-0"

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North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT — MONIKA C. CASTILLO — 26558 — STATE OF TEXAS
10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

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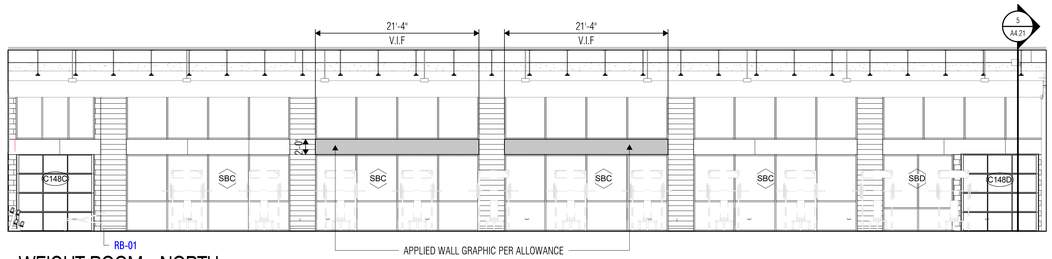
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

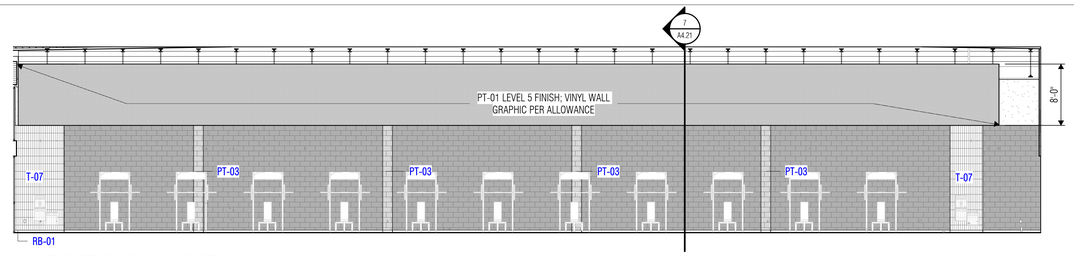
SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A3.21

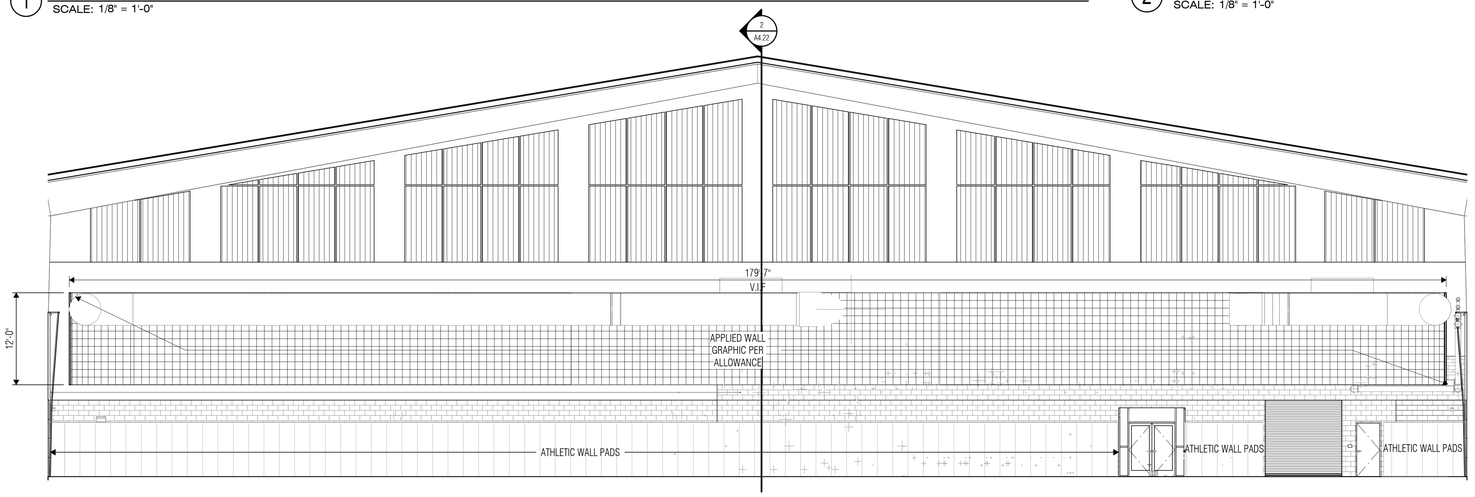
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1 WEIGHT ROOM - NORTH
SCALE: 1/8" = 1'-0"



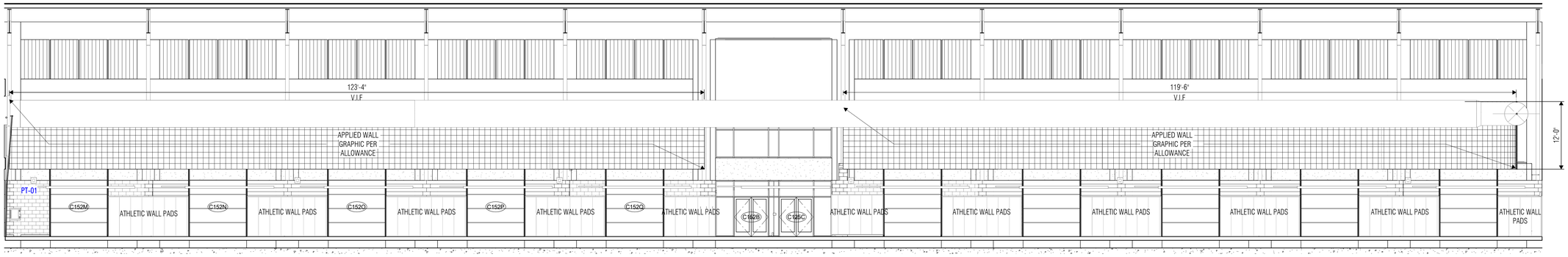
2 WEIGHT ROOM - SOUTH
SCALE: 1/8" = 1'-0"



3 PRACTICE FIELD - EAST
SCALE: 1/8" = 1'-0"



6 PRACTICE FIELD - ENTRY
SCALE: 1/4" = 1'-0"



4 PRACTICE FIELD - NORTH
SCALE: 1/8" = 1'-0"



5 PRACTICE FIELD - SOUTH
SCALE: 1/8" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT
MONIKA C. CASTILLO
26558
STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

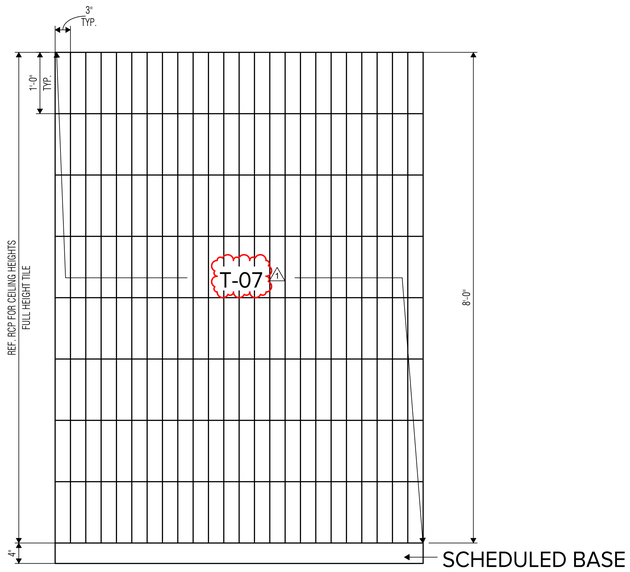
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

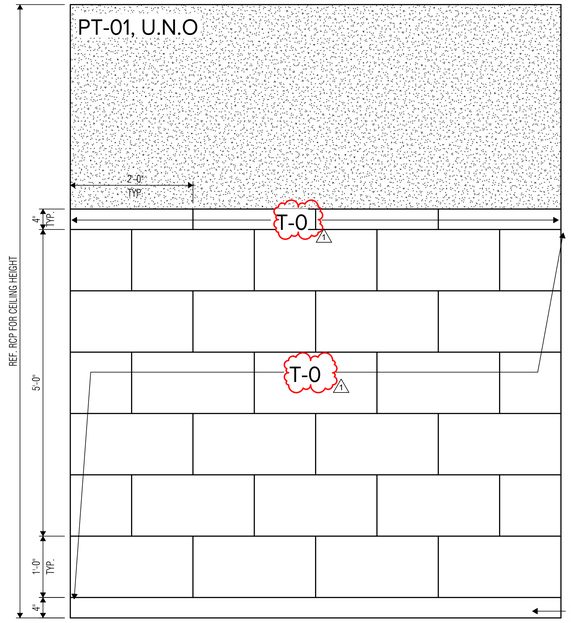
SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A3.23

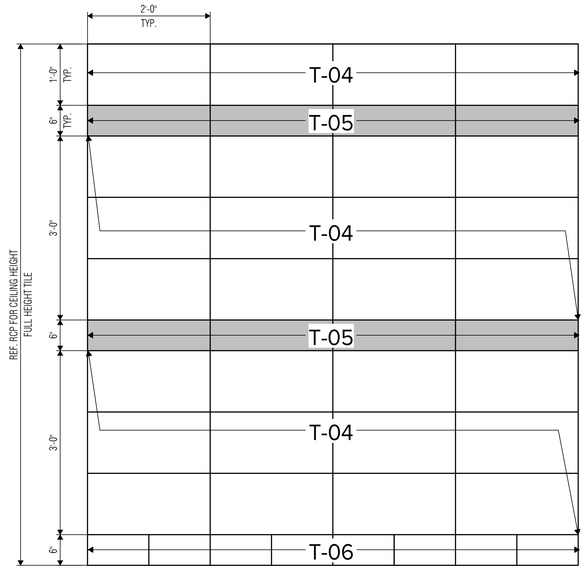
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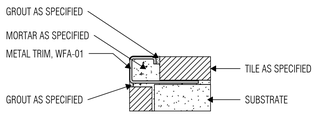
1 DRINKING FOUNTAIN TILE PATTERN
SCALE: 1" = 1'-0"



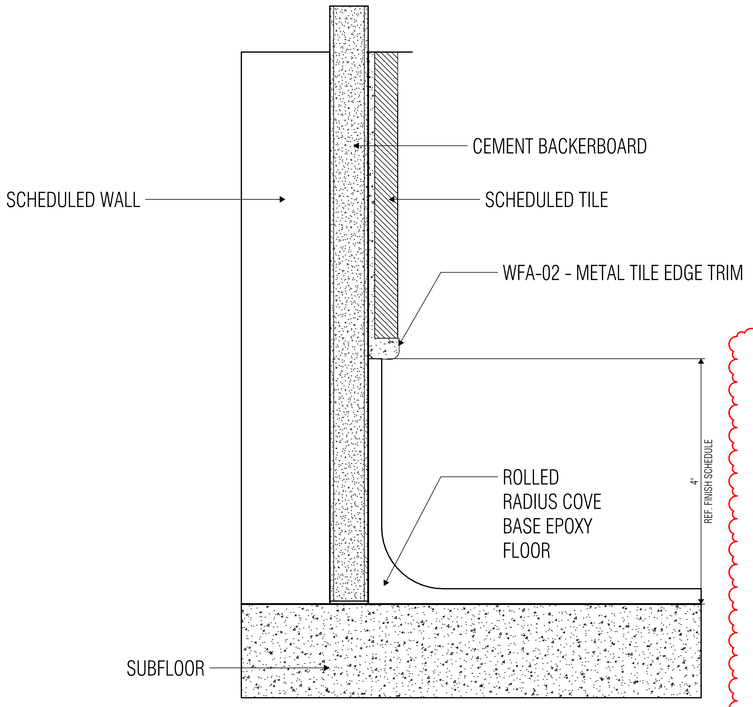
2 WAINSCOT TILE PATTERN (WTP-01)
SCALE: 1" = 1'-0"



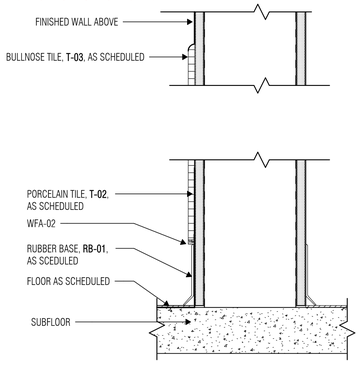
3 RESTROOM TILE PATTERN
SCALE: 1" = 1'-0"



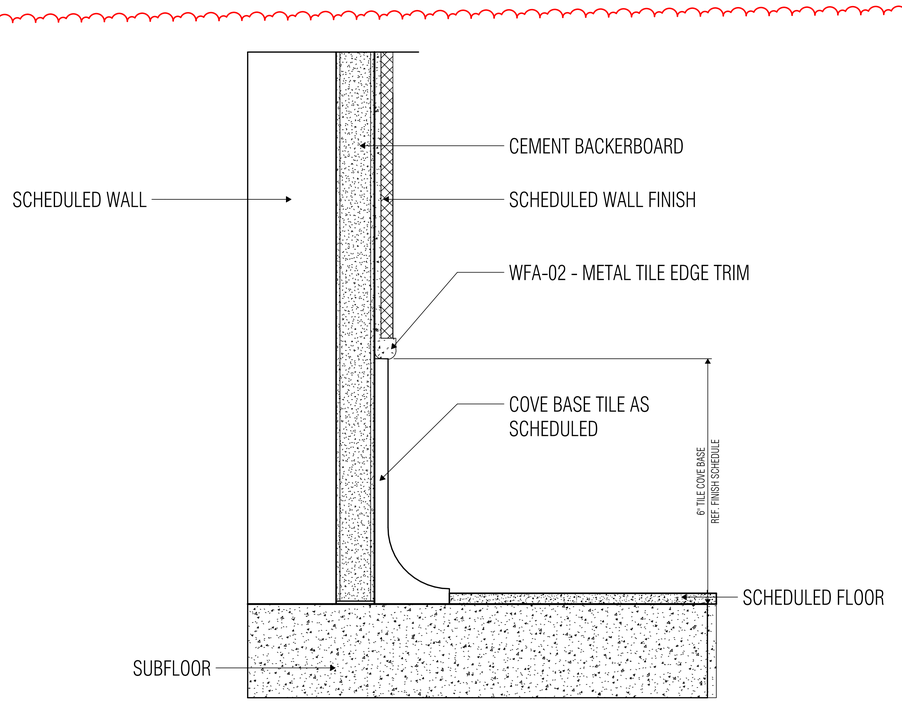
4 TILE EDGE CORNER TRIM DETAIL
SCALE: 12" = 1'-0"



5 EPOXY COVE BASE DETAIL
SCALE: 12" = 1'-0"



6 WALL TILE TO RUBBER BASE DETAIL
SCALE: 3" = 1'-0"



7 TILE BASE DETAIL
SCALE: 12" = 1'-0"

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1	Addendum 1	10/08/2025

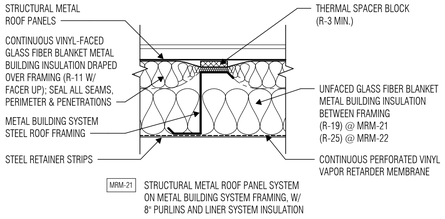
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

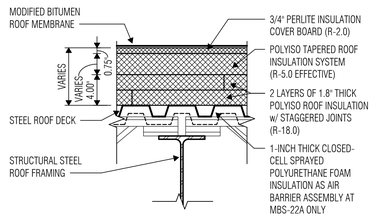
SHEET TITLE
INTERIOR ELEVATION DETAILS

SHEET NO.
A3.31

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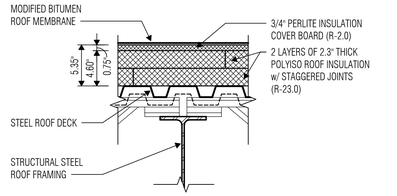


MRM-21 STRUCTURAL METAL ROOF PANEL SYSTEM ON METAL BUILDING SYSTEM FRAMING, W/ 8" PURLINS AND LINER SYSTEM INSULATION



MBS-22 MODIFIED BITUMEN ROOF SYSTEM ON STEEL DECK & FRAMING, NON-SLOPING

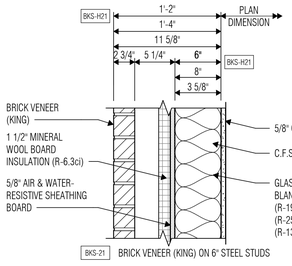
MBS-22A MODIFIED BITUMEN ROOF SYSTEM ON STEEL DECK & FRAMING, NON-SLOPING (OVER EXTERIOR VENTILATED SOFFIT)



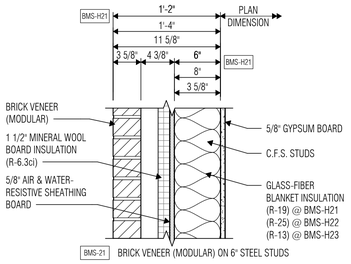
MBS-21 MODIFIED BITUMEN ROOF SYSTEM ON EXISTING STEEL DECK & FRAMING, SLOPING

MBS-21A MODIFIED BITUMEN ROOF SYSTEM ON EXISTING STEEL DECK & FRAMING, SLOPING (OVER EXTERIOR VENTILATED SOFFIT)

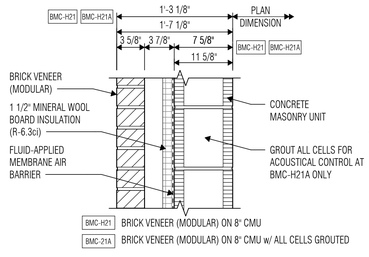
1 ROOF ASSEMBLIES
SCALE: 1 1/2" = 1'-0"



BKS-21 BRICK VENEER (KING) ON 6" STEEL STUDS

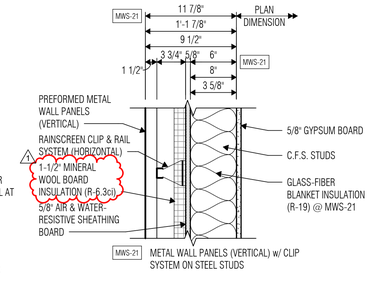


BMS-21 BRICK VENEER (MODULAR) ON 6" STEEL STUDS

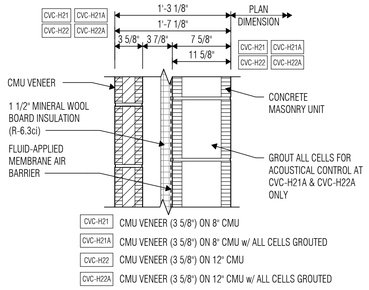


BMC-H21 BRICK VENEER (MODULAR) ON 8" CMU

BMC-21A BRICK VENEER (MODULAR) ON 8" CMU w/ ALL CELLS GROUTED



MWS-21 METAL WALL PANELS (VERTICAL) w/ CLIP SYSTEM ON STEEL STUDS

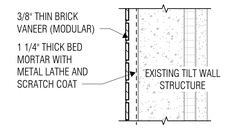


CVC-H21 CMU VENEER (3 5/8") ON 8" CMU

CVC-H21A CMU VENEER (3 5/8") ON 8" CMU w/ ALL CELLS GROUTED

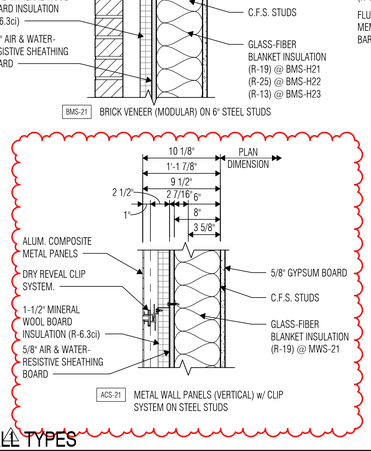
CVC-H22 CMU VENEER (3 5/8") ON 12" CMU

CVC-H22A CMU VENEER (3 5/8") ON 12" CMU w/ ALL CELLS GROUTED



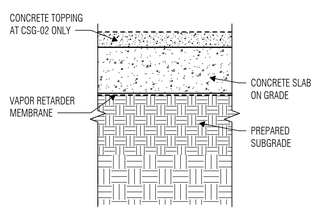
TBK-21 MODULAR THIN BRICK VENEER APPLIED ON EXISTING TILT WALL STRUCTURE

MWM-21 STRUCTURAL METAL PANEL ON METAL BUILDING SYSTEM FRAMING

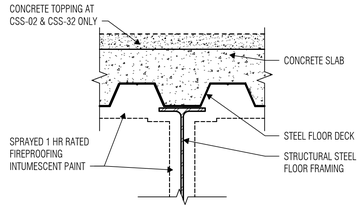


ACS-21 METAL WALL PANELS (VERTICAL) w/ CLIP SYSTEM ON STEEL STUDS

2 BUILDING ENVELOPE ASSEMBLY WALL TYPES
SCALE: 1 1/2" = 1'-0"



CSG-01 CONCRETE SLAB ON GRADE



CSS-01 CONCRETE SLAB ON STEEL DECK & FRAMING

3 FLOOR TYPES
SCALE: 1 1/2" = 1'-0"

CLADDING BACKUP CLIMATE ZONE MARK
BMS-21

BUILDING ASSEMBLY MASTER LIST

TYPE MARK	DESCRIPTION
Wall	
TBC-01	
Floor	
CSG-01	Concrete Slab on Grade
CSS-01	Concrete Slab on Steel Deck & Framing
SW-1	Sidewalk
TF-03	
TZ-01	
TZ-02	Concrete Slab on Grade
Wall	
ACS-21	ACM Wall Panel w/ Clip System on 6" Steel Studs
BKS-21	Brick Veneer (King Size) on 6" Steel Studs
BMC-01	Brick Veneer (Modular) on 8" CMU (screen wall; non-conditioned building)
BMC-21	Brick Veneer (Modular) on 8" CMU
BMC-31	Brick Veneer (Modular) on 8" CMU
BMS-31	Brick Veneer (Modular) on 6" Steel Studs
MWS-21	Metal Wall Panel (Vertical) w/ Clip System on 6" Steel Studs
MWS-31	Metal Wall Panel (Vertical) w/ Clip System on 6" Steel Studs
Roof	
MBL-32	Modified Bitumen Roof System on Lightweight Insulating Concrete System on Steel Deck & Framing, Non-Sloping
MBS-02	Modified Bitumen Roof System on Steel Deck & Framing, Non-Sloping (Unconditioned Bldg)

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10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

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1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

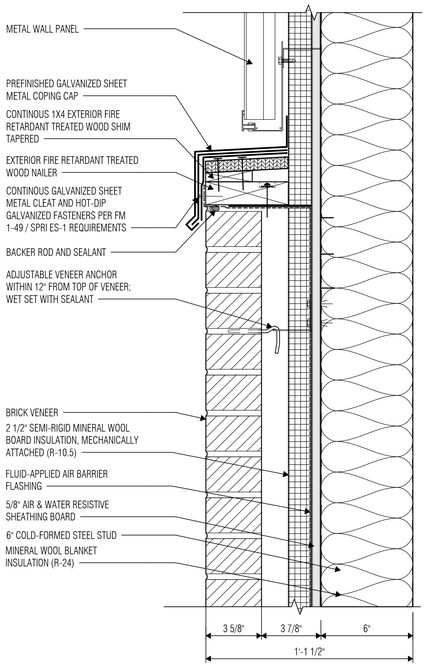
PROJECT NO.
25-0056.00

SHEET TITLE
BUILDING ASSEMBLY TYPES

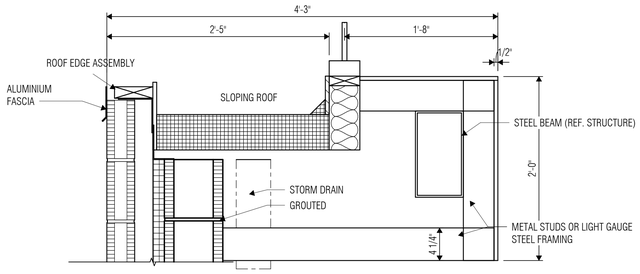
SHEET NO.
A4.11

North Shore Multi-Use Indoor Facility

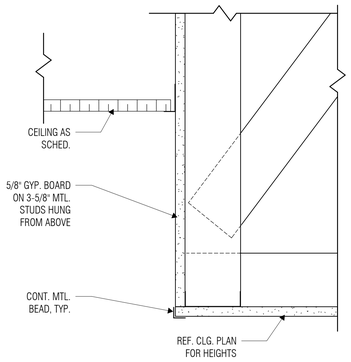
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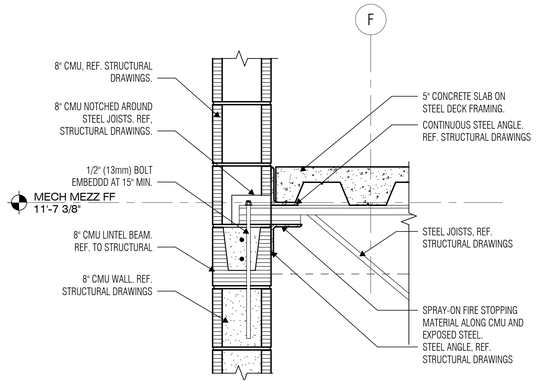
1 METAL WALL PANEL - BRICK TRANSITION DETAIL
SCALE: 3" = 1'-0"



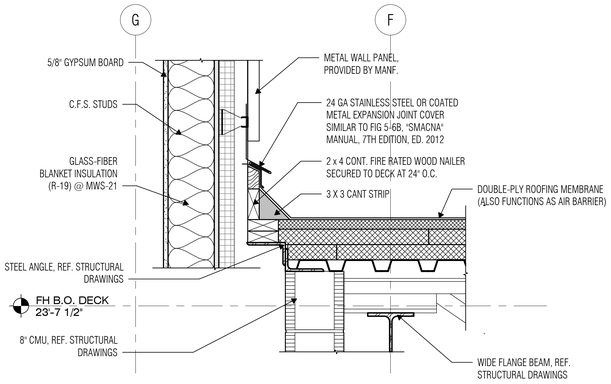
2 SECTION DETAIL - LOBBY LOW ROOF
SCALE: 1 1/2" = 1'-0"



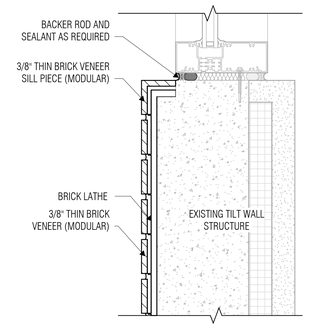
3 DETAIL AT FURR DOWN
SCALE: 3" = 1'-0"



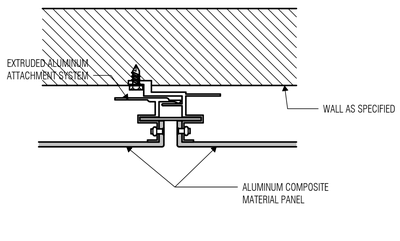
4 SECTION DETAIL @ MEZZ FOOR - CMU WALL
SCALE: 1 1/2" = 1'-0"



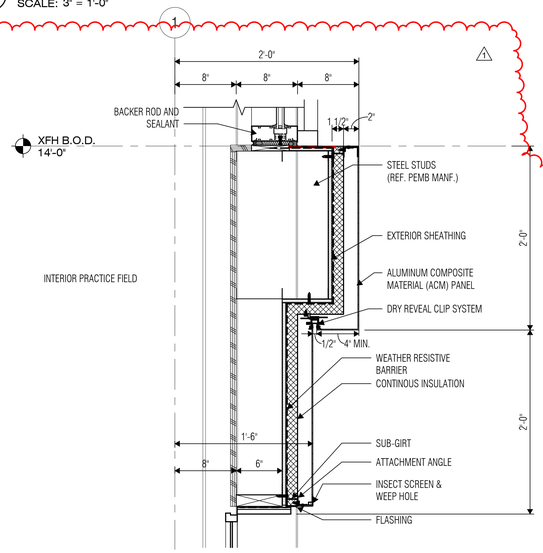
5 SECTION DETAIL @ PEMB WALL - STUD ROOF EXPAN. JOINT
SCALE: 1 1/2" = 1'-0"



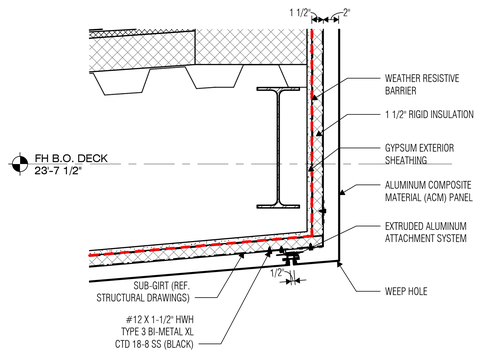
6 THIN BRICK MASONRY DETAIL (ALTERNATE)
SCALE: 3" = 1'-0"



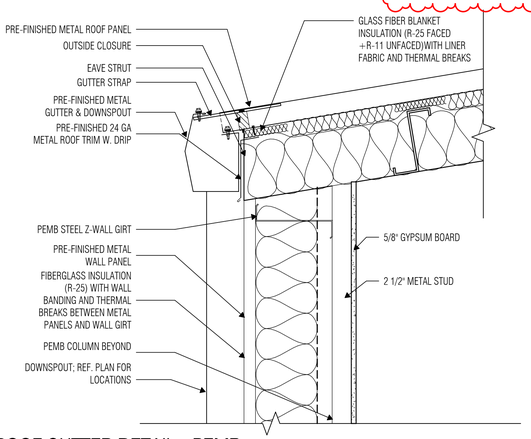
7 ACM PANEL DETAIL - TYPICAL SEAM
SCALE: 6" = 1'-0"



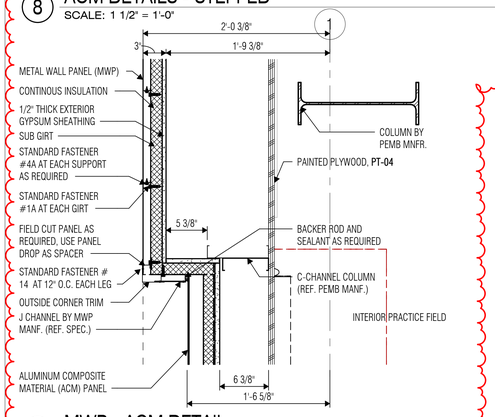
8 ACM DETAILS - STEPPED
SCALE: 1 1/2" = 1'-0"



9 ACM DETAIL - WALL TO PARAPET TRANSITION
SCALE: 1 1/2" = 1'-0"



10 ROOF GUTTER DETAIL - PEMB
SCALE: 1 1/2" = 1'-0"



11 MWP - ACM DETAIL
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT MONIKA C. CASTILLO 26558 STATE OF TEXAS
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Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

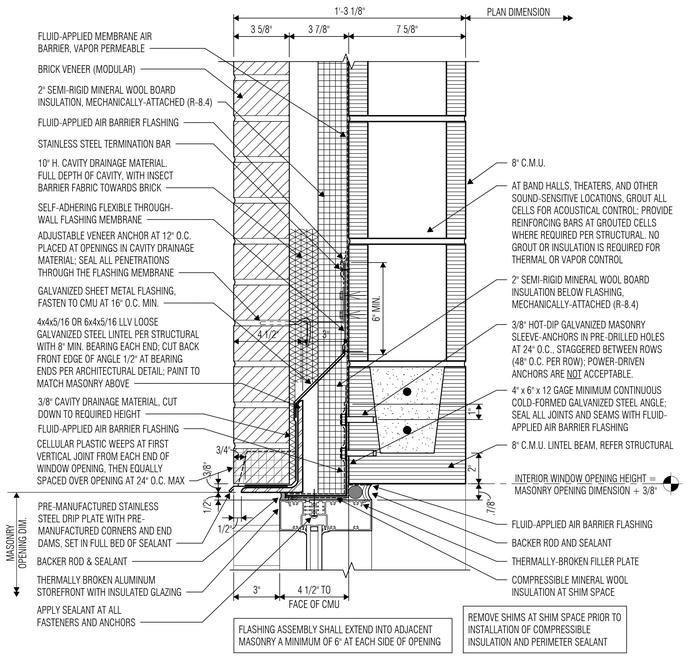
PROJECT NO.
25-0056.00

SHEET TITLE
WALL ASSEMBLY DETAILS

SHEET NO.
A4.31

North Shore Multi-Use Indoor Facility

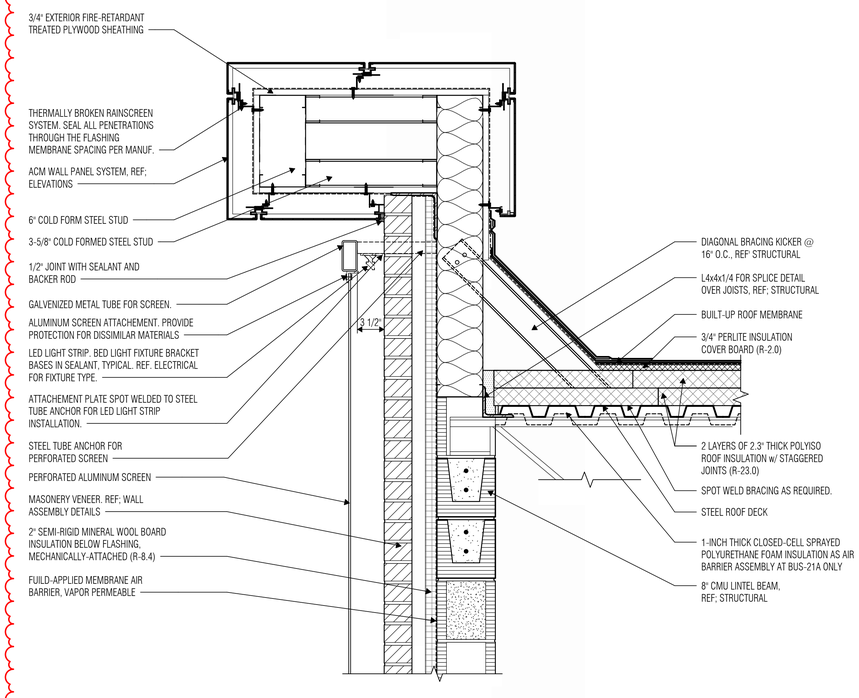
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*BMC-31.H.60SF.LL

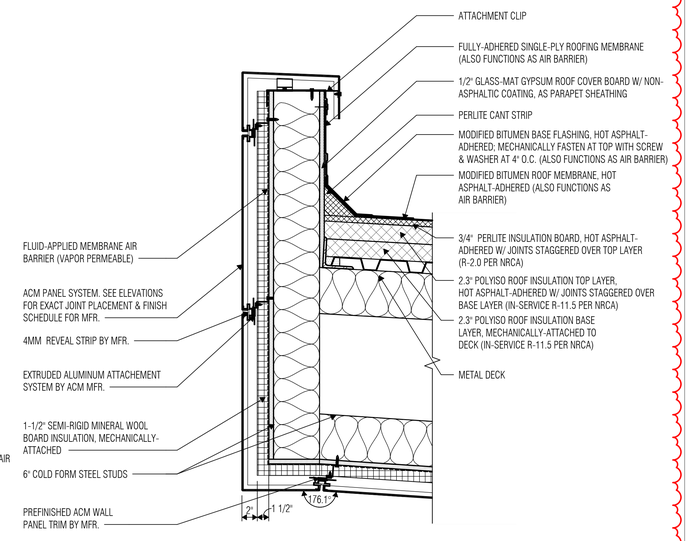
1 MODULAR BRICK/ CMU WALL AT STOREFRONT HEAD - LOOSE LINTEL

SCALE: 3" = 1'-0"



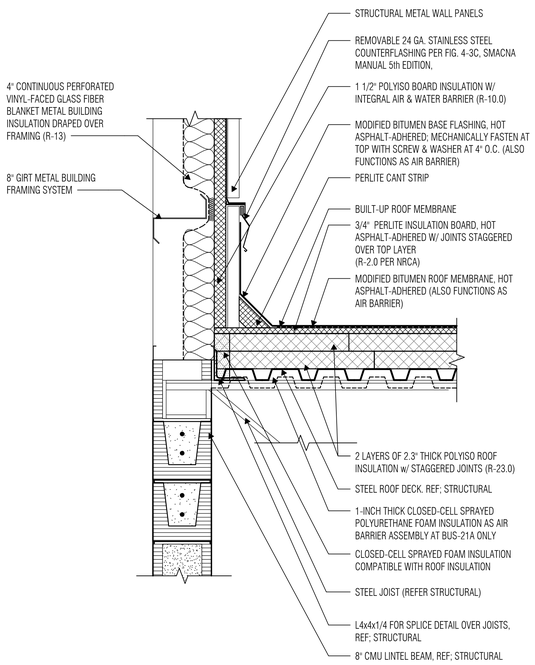
2 SCREEN HEAD AT ACM WALL

SCALE: 1 1/2" = 1'-0"



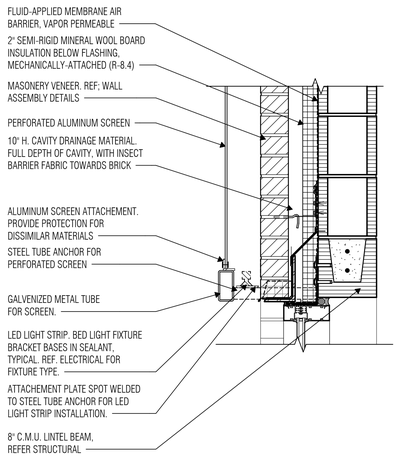
3 SOFFIT AT ACM PARAPET

SCALE: 1 1/2" = 1'-0"



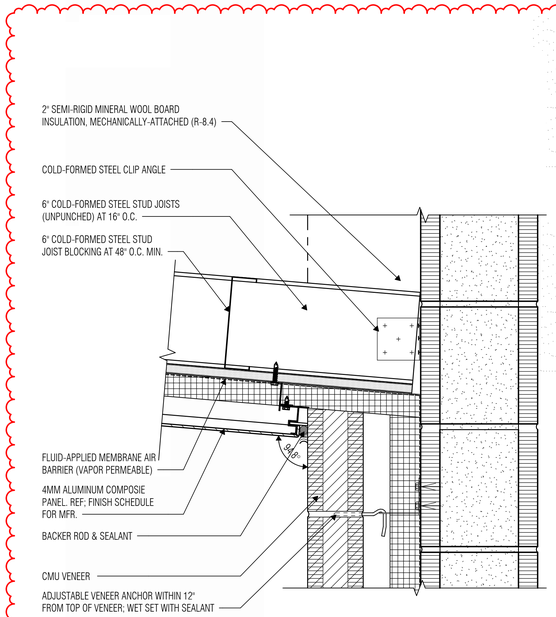
4 ROOF AT METAL BUILDING FRAMING & CMU

SCALE: 1 1/2" = 1'-0"



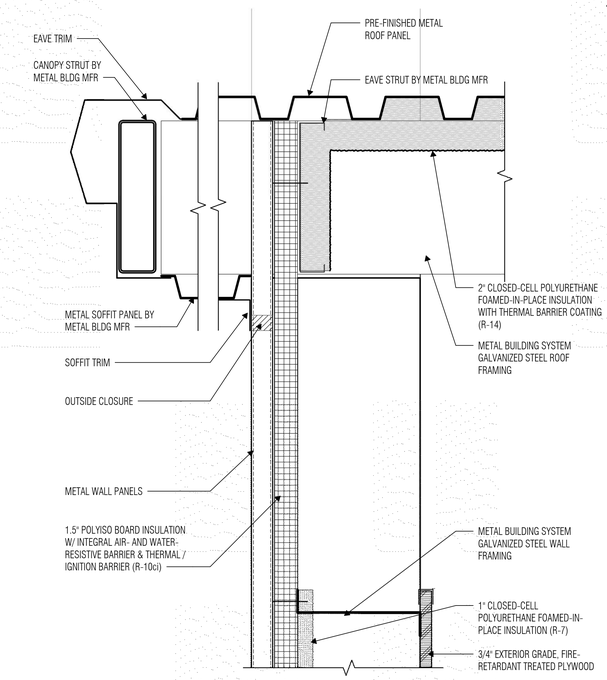
5 SCREEN SILL AT MASONERY WALL

SCALE: 1 1/2" = 1'-0"



6 MASONRY VENEER/ CMU WALL AT NON-INSULATED METAL PANEL SOFFIT

SCALE: 3" = 1'-0"



7 TOP OF WALL - PEMB

SCALE: 3" = 1'-0"

ARCHITECT

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT — MONIKA C. CASTILLO — 26558 — STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

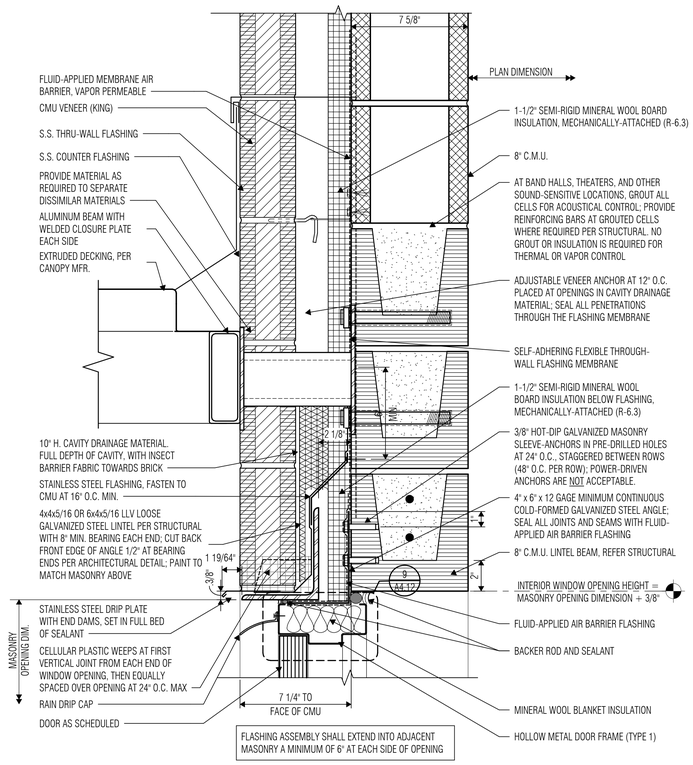
SHEET TITLE

WALL ASSEMBLY DETAILS

SHEET NO.

A4.32

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1 CANOPY AT CMU H.M. HEAD

SCALE: 3" = 1'-0"

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10/08/2025

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Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

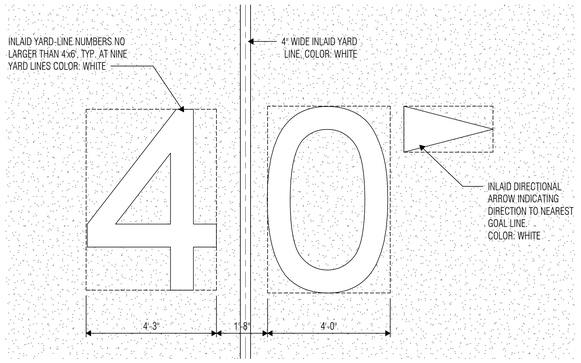
SHEET TITLE

WALL ASSEMBLY DETAILS

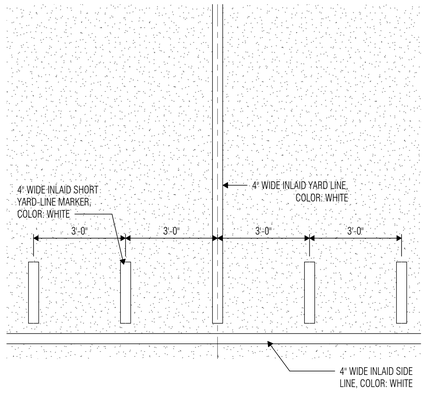
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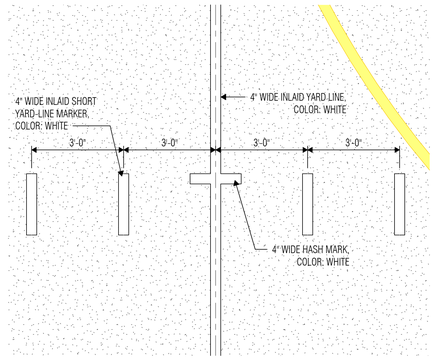
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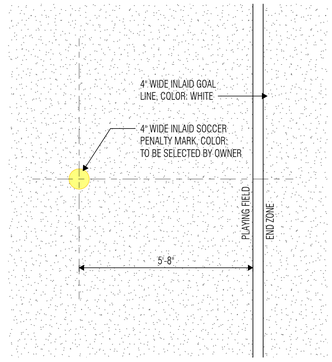
1 DETAIL AT YARD-LINE NUMBERS
SCALE: 1/2" = 1'-0"



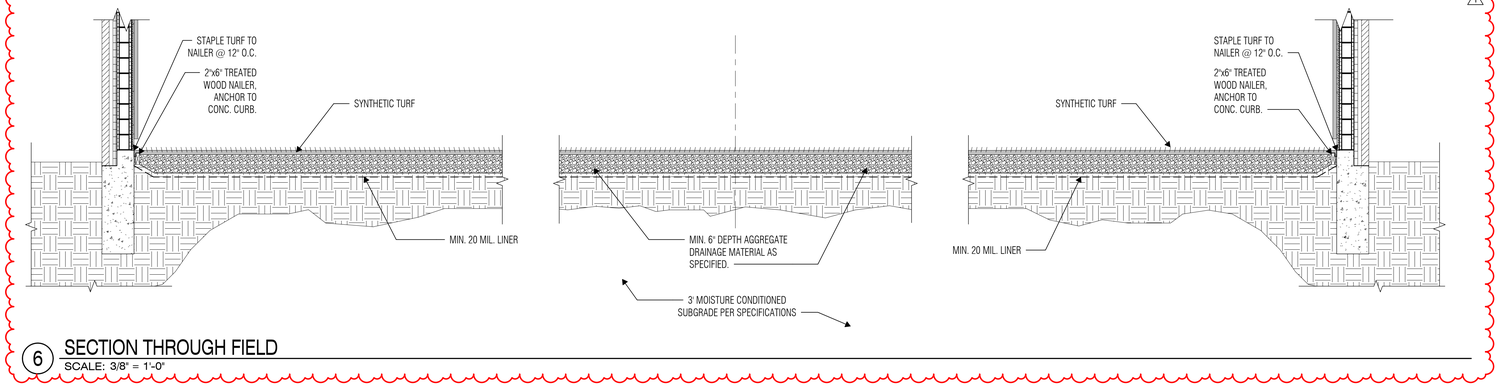
2 DETAIL AT SIDE LINE
SCALE: 1/2" = 1'-0"



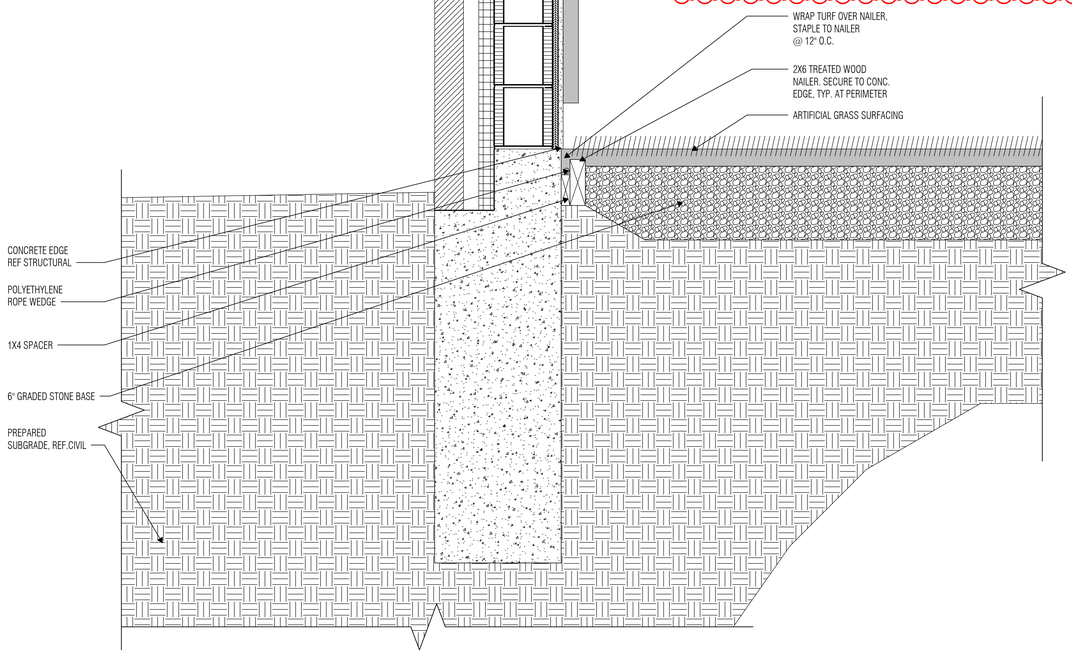
3 DETAIL AT INBOUND LINES
SCALE: 1/2" = 1'-0"



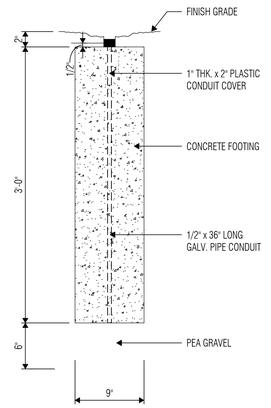
4 DETAIL AT PENALTY MARK
SCALE: 1/2" = 1'-0"



6 SECTION THROUGH FIELD
SCALE: 3/8" = 1'-0"



5 DETAIL @ EDGE OF TURF1
SCALE: 1 1/2" = 1'-0"



7 FIELD CORNER/RADIUS MARKER
SCALE: 1 1/2" = 1'-0"

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10/08/2025

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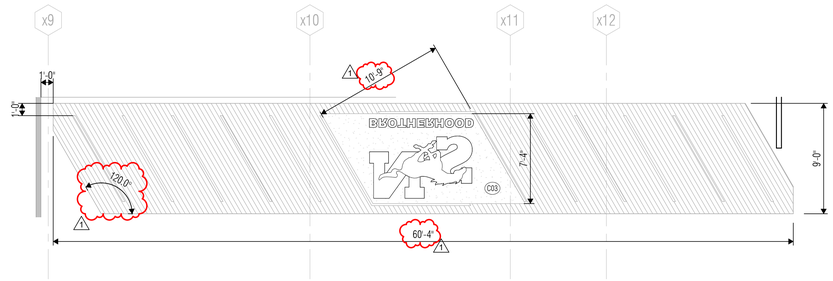
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

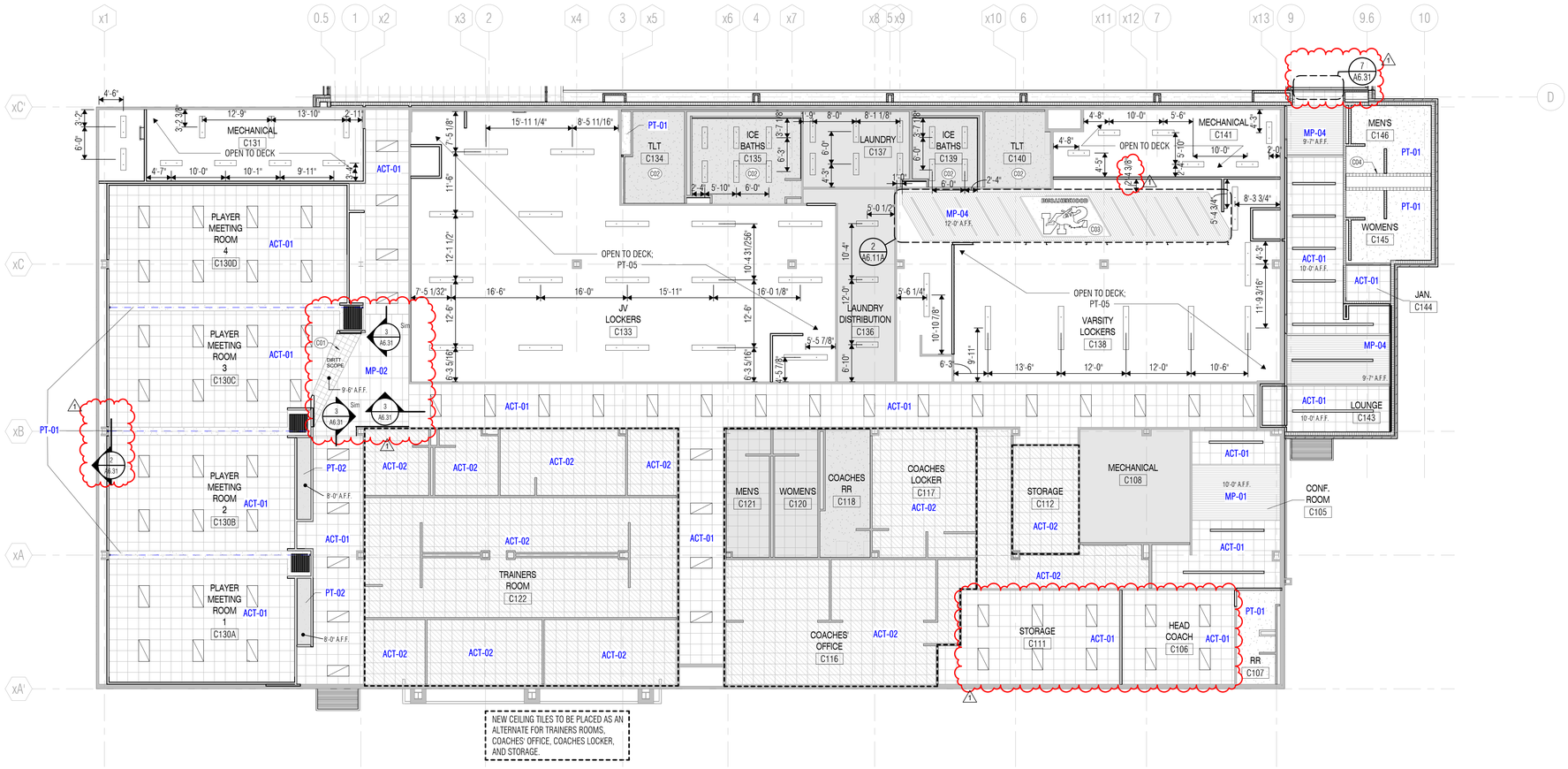
SHEET TITLE
FIELD DETAILS

SHEET NO.
A4.41

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2 ENLARGED CEILING PLAN
SCALE: 1 : 60



1 REFLECTED CEILING PLAN - LEVEL ONE - UNIT A
SCALE: 1" = 10'-0"

KEY NOTE SCHEDULE

NUMBER	NOTE TEXT
C01	EXTEND CEILING GRID IN THIS AREA WITHOUT CEILING TILES.
C02	PAINT EXISTING GYPSUM BOARD CEILING PT-01
C03	ACRYLIC SIGN WITH INTEGRAL LIGHTING. COORDINATE WITH LIGHTING.
C04	18" X 18" ACCESS PANEL ON WALL.

REFLECTED CEILING PLAN NOTES

1. All ceiling heights shall be [10'-00"] A.F.F. unless noted otherwise.
2. Refer to Detail 1 / A6.31 for Typical Gypsum Board Ceiling Control Joint Detail.
3. Refer to Detail - / --- for Typical Plaster Ceiling Control Joint Detail.
4. Provide vented reveals at perimeter of all non-insulated exterior plaster soffits. Provide venting strips or perforated panels at perimeter of all non-insulated metal panel soffits (refer to Detail - / ---). Venting at non-insulated soffits shall be provided whether specifically indicated on the drawings or not.
5. Provide partition to deck (PTD) at walls surrounding spaces with exposed structure. Refer to Reflected Ceiling Plan Legend for PTD requirements.
6. Provide hold-down clips for all acoustic lay-in ceiling panels at vestibules, at sloped ceilings, at fire-rated ceilings, and within 6 feet of exterior doors without vestibules.
7. At ceiling furring details, the suspended assemblies, bracing, blocking, etc. shown on the details are for schematic representation only. Provide stable, secure and permanent assemblies at these locations in accordance with recommended light-gage steel framing installation practices.
8. At partitions that do not extend to deck above, extend partition 4" minimum above highest adjacent ceiling and brace per Floor Plan Legend and Floor Plan Notes.

REFLECTED CEILING PLAN LEGEND

EXISTING TO REMAIN WITH LIMITED OR NO ARCHITECTURAL WORK REQUIRED IN THIS AREA. REFER TO CIVIL, MEPT AND STRUCTURAL DRAWINGS FOR ANY ADDITIONAL WORK IN AREA.

CEILINGS:

- ACT-01 — ACOUSTIC LAY-IN CEILING TILE 24" X 24"
- ACT-02 — EXISTING GRID TO REMAIN, NEW ACOUSTIC LAY-IN CEILING TILE 24" X 24"
- EXISTING ACOUSTIC LAY-IN CEILING TILE TO REMAIN
- MP-01 — METAL PANEL
- MP-02 — VAPOR FREQUENCY PANELS WITH RED LIGHTING 48" X 24"
- MP-03 — VAPOR TRAIL PANELS; CUSTOM; WITH WHITE LIGHTING 48" X 24"
- MP-04 — LINEAR METAL- WOOD LOOK
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- PT-01 — 5/8" GYPSUM BOARD CEILING PAINTED PT-01, U.N.O.
- HVAC SUPPLY AND RETURN GRILLES Shown for location purposes only. Refer to Mechanical Drawings.
- 1 Hour Fire Barrier Partition
- 2 Hour Fire Barrier Partition
- Smoke Partition
- Sound Partition
- Non-rated Partition to Deck

1-HOUR FIRE BARRIER PARTITION. Extend partition to deck above and seal with firestopping as required for fire-resistance requirements. Paint stenciled label on partitions above ceiling at 15'-0" o.c. as follows: *'1-HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS'*. Brace partitions per Floor Plan General Notes.

2-HOUR FIRE BARRIER PARTITION. Extend partition to deck above and seal with firestopping as required for fire-resistance requirements. Paint stenciled label on partitions above ceiling at 15'-0" o.c. as follows: *'2-HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS'*. Brace partitions per Floor Plan General Notes.

SMOKE PARTITION. Extend partition to deck above and seal with sealant as required to resist the passage of smoke. Paint stenciled label on partitions above ceiling at 15'-0" o.c. as follows: 'SMOKE BARRIER - PROTECT ALL OPENINGS'. Seal all joints and penetrations. Brace partitions per Floor Plan General Notes.

ACOUSTICAL DRYWALL PARTITION / SOUND-CONDITIONED CMU PARTITION. Extend partition to deck above and seal with acoustical sealant. Seal all joints and penetrations with acoustical sealant. Brace partitions per Floor Plan General Notes.

NON-RATED PARTITION TO DECK. Extend partition to deck above. Brace partitions per Floor Plan General Notes.

CEILING SCHEDULE

TYPE MARK	TYPE
	Generic
ACT-01	2' x 2' ACT System
ACT-02	2' x 2' ACT (NEW TILES ONLY)
LMC-01	<varies>
PT-01	<varies>

KEY PLAN

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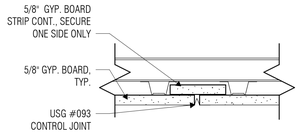
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

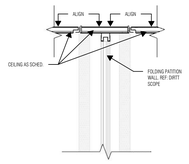
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REFLECTED CEILING PLAN - LEVEL ONE - UNIT A

SHEET NO.
A6.11A

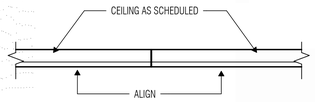
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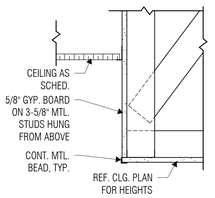
1 TYP. GYP. BD CONTROL JOINT DETAIL
SCALE: NTS



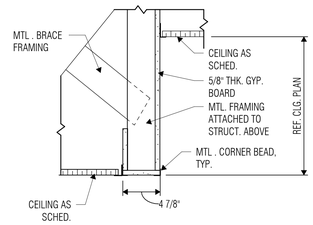
2 CEILING SECTION DETAIL
SCALE: NTS



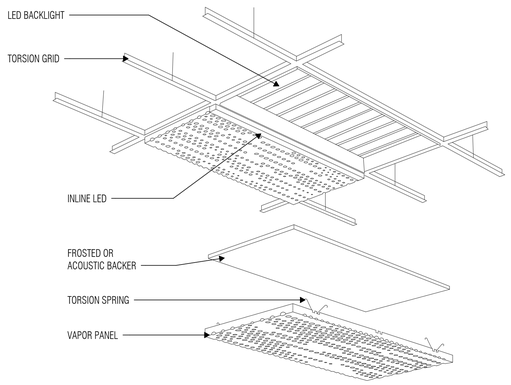
3 CEILING SECTION DETAIL
SCALE: NTS



6 C508 - DETAIL AT FURR DOWN
SCALE: 1 1/2" = 1'-0"



7 C512 - DETAIL AT FURR DOWN (NO REVEAL)
SCALE: 1 1/2" = 1'-0"



5 VAPOR METAL PANEL DETAIL
SCALE: NTS

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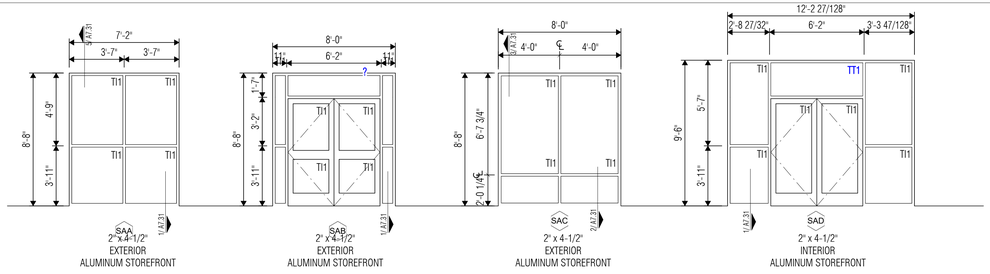
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
CEILING DETAILS

SHEET NO.
A6.31

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GLAZING SYSTEM LEGEND

STOREFRONT FRAMING WITH 3/16" THICK 'HEAVY WALL' MATERIAL. TYPICAL AT ALL DOOR FRAME MEMBERS IN STOREFRONT GLAZING SYSTEMS.

CURTAIN WALL FRAMING WITH STEEL REINFORCING PROVIDED BY MANUFACTURER.

GLAZING SYSTEM NOTES

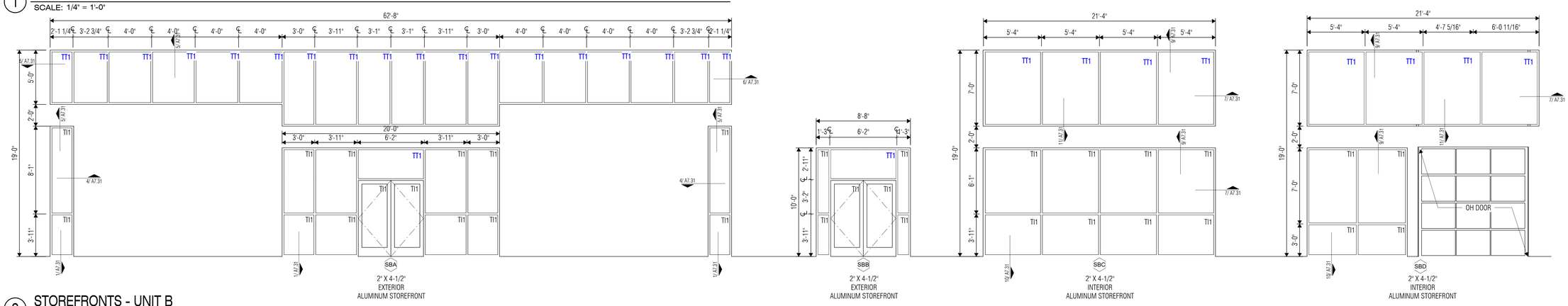
1. Overall dimensions of glazing system elevations reflect rough opening dimensions, inclusive of perimeter joints.
2. Provide 3/16" thick heavy wall framing members at all door frames in exterior and interior aluminum Storefront systems.
3. Provide 3/16" thick heavy wall door adapters at all door frame members in exterior and interior aluminum Curtain Wall systems.
4. Door opening dimensions in Curtain Wall systems reflect 1" door adapters at jamb conditions, and 1-3/4" door adapters at head conditions. Adjust dimensions between mullions at door openings in curtain wall systems as required for actual size of door adapters provided. Door sizes as identified in Door Schedule shall be maintained.
5. Refer to - / --- for Typical Push/Pull Mounting Heights Detail for aluminum/glass doors.

GLAZING TYPE LEGEND

Material: Description	Material: Name
CT4	Glazing - Clear
TT1	Glazing - Insulated, Tinted
TI1	Glazing - Insulated, Tinted, Impact Resistant
MP	Metal - Perforated
EXTERIOR FINISH	Metal - Wall Panel-02
TWP	Plastic - Cooper Industries - Frosted Kalwall 8x10
Stainless Steel 18/8, polished finish	Shiny Red

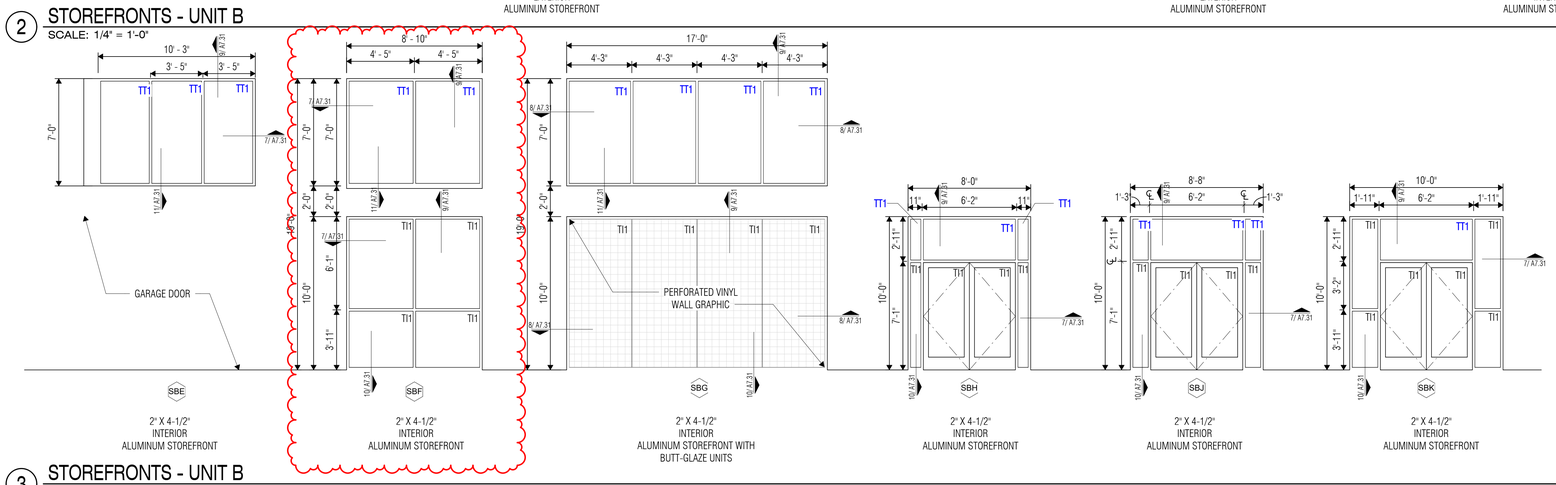
1 STOREFRONTS - UNIT A

SCALE: 1/4" = 1'-0"



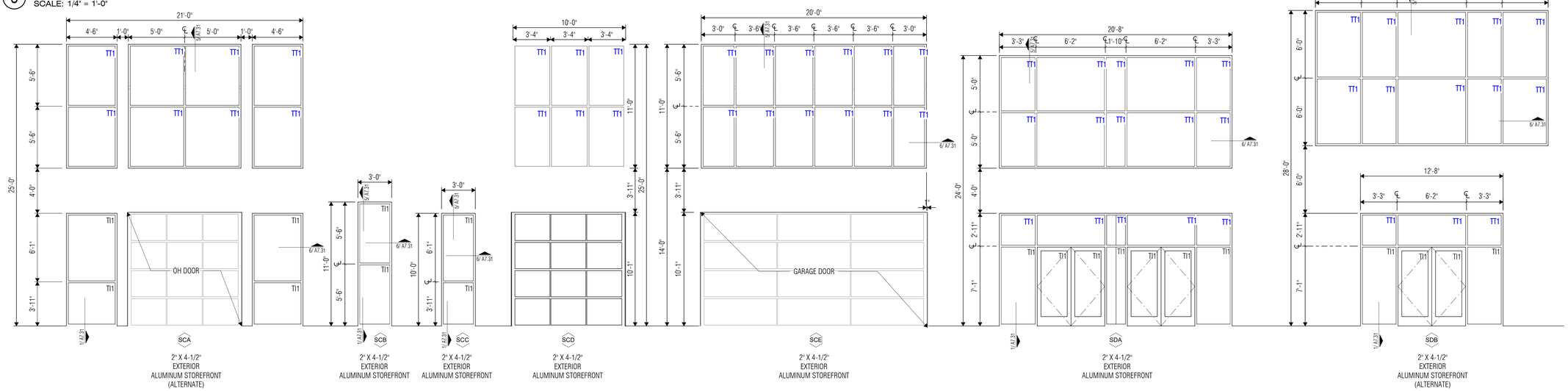
2 STOREFRONTS - UNIT B

SCALE: 1/4" = 1'-0"



3 STOREFRONTS - UNIT B

SCALE: 1/4" = 1'-0"



4 STOREFRONTS - UNITS C & D

SCALE: 1/4" = 1'-0"

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Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

GLAZING ASSEMBLY ELEVATIONS

SHEET NO.

A7.21

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FINISH ACCESSORY, FURNITURE AND EQUIPMENT SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO			SIZE	COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH		
FLOOR FINISH ACCESSORY							
FFA-01	Floor Transition	09 68 00	Schluter	Reno-TK	Anodized Aluminum	--	Tile to Carpet, Carpet to Terrazzo, Tile to Resilient
G-01	Grout - Color A	09 30 13	Mapei	--	5010 Black	--	To be used with T-08
G-02	Grout - Color B	09 30 13	Mapei	--	5103 Cobblestone	--	To be used with T-09
MILLWORK FINISH ACCESSORY							
MFA-01	Millwork Reveal	06 40 00	TBD	--	TBD	1" WIDE	
SPECIALTY EQUIPMENT							
ATH	Athletic Equipment - Wall Pads	11 66 00	TBD	--	Red	4'-0" x 8'-0"	
DC	Display Case (Manufactured/Millwork)	10 12 00 or 06 40 00	TBD	--	TBD		
FEC	Fire Extinguisher Cabinet	10 44 13	--	--	--	-	
HB	Horizontal Blinds	12 21 13	SWF Contract	S4000 Micro	TBD	1" WIDE	
ID	Identifying Devices	10 14 00	Wilsonart	TBD	TBD	Ref. ADA Signgage Details	
LK-01	Lockers - Metal	10 51 13	TBD	--	Red	Ref. Locker Elevations	
MB	Markerboard - Premanufactured	10 11 16	Claridge	--	White		
PC-01	Privacy Curtain - Showers	10 21 23	TBD	--	TBD		
RS	Roller Shades	12 24 13	MechoShades		TBD	AS SPECIFIED	
TC	Toilet Compartment	10 21 13	TBD	Solid Black-Core Phenolic	TBD	-	
WALL FINISH ACCESSORY							
CG-01	Corner Guard	10 26 13	Construction Specialties	TBD	TBD	Full Height	
G-03	Grout	09 30 00	Mapei	--	5010 Black	-	To be used with T-01, T-02, T-03 (WTP-01)
G-04	Grout	09 30 00	Mapei	--	5103 Cobblestone	-	To be used with T-04, T-05, T-06 (WTP-02)
G-05	Grout	09 30 00	Mapei	--	5093 Warm Gray	-	To be used with T-07
WFA-01	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Quadec	Anodized Aluminum	-	Exposed Side Edges
WFA-02	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Jolly	Anodized Aluminum	-	Exposed Bottom Edges

MATERIAL FINISH SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MATERIAL: MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO				COMMENTS
			MANUFACTURER	SERIES/STYLE	COLOR/FINISH	SIZE	
CEILING FINISH							
ACT-01	Acoustic Ceiling Tile (24X24)	09 51 00	Armstrong	Optima Lay-In	White	24" x 24"	
ACT-02	Acoustic Ceiling Tile (24X24)(NEW TILES ONLY)	09 51 00	Armstrong	Optima Lay-In	White	24" x 24"	
MP-01	Linear Wood Ceiling	09 54 26	Armstrong	Metalworks Linear - Classic; Micropreforated; 5492	Effects Walnut Espresso	96" x 4" x 5/8"	
MP-02	Ceiling-Decorative Metal A	09 54 23	Arktura	Vapor Frequency	Jet Black	2' x 4'	
MP-03	Ceiling-Decorative Metal A.3	09 54 23	Arktura	Vapor Trail- CUSTOM	Jet Black	2' x 4'	
MP-04	Linear Ceiling - Black	09 54 26	Armstrong	Metalworks Linear - Classic; Micropreforated; 5492	Custom Black	96" x 4" x 5/8"	
PT-04	Paint - Exposed Structure - White	09 91 00	Sherwin Williams	--	SW 7757 High Reflective White		
PT-05	Paint - Exposed Structure - Black	09 91 00	Sherwin Williams	--	SW 6258 Tricorn Black		
EXTERIOR FINISH							
ACM-01	Metal - Aluminum Composite Wall Panel-01	07 46 50	ALUCOBOND	--	Platinum Mica		
ACM-02	Metal - Aluminum Composite Wall Panel-02	07 46 50	ALUCOBOND	--	Greyhound		
ACM-03	Metal - Aluminum Composite Wall Panel-03	07 46 50	ALUCOBOND	--	Platinum Mica		
BR-01	Masonry - Modular Brick Veneer-01	04 20 00	ACME BRICK	--	Crimson /Velour	Modular	Running Bond
BR-02	Masonry - Modular Brick Veneer-02	04 20 00	ACME BRICK	--	Crimson /Velour	Modular	Soldier Coursing
BRT-01	Masonry - Modular Thin Brick Veneer-01	04 21 00	ACME BRICK	--	Crimson /Velour	Modular-Thin	Running Bond
BRT-02	Masonry - Modular Thin Brick Veneer-02	04 21 00	ACME BRICK	--	Crimson /Velour	Modular-Thin	Soldier Coursing
CS-01	Masonry - CAST STONE-01	04 72 00	Echelon	Cordova Stone	Graphite - Ground	12" x 24"	Running Bond Pattern - Matching Mortar
CS-02	Masonry - CAST STONE-02	04 72 00	Echelon	Cordova Stone	Midnight - Ground	12" x 24"	Running Bond Pattern - Matching Mortar
CS-03	Masonry - CAST STONE-03	04 72 00	Siteworks	--	Natural /Smooth		
MRP-01	Metal - Roof Panel-01	07 41 20	MBCI	SUPERLOK	Tundra	16" Wide Panel	
MSP-01	Metal - Soffit Panel-01	07 42 13	MBCI	FW-120-1	Tundra		Metal Soffit Panel with 1 Bead
MSP-02	Metal - Soffit Panel-02	07 42 13	MBCI	FW-120-1	Storm Gray		Metal Soffit Panel with 1 Bead
MSP-03	Metal - Soffit Panel-03	07 42 13	MBCI	FW-120-1	Brite Red		Metal Soffit Panel with 1 Bead
MWP-01	Metal - Wall Panel-01	07 42 13	MBCI	FW-120-1	Tundra		Metal Panel with 1 Bead/Vertical Orientation
MWP-02	Metal - Wall Panel-02	07 42 13	MBCI	FW-120-1	Storm Gray		Metal Panel with 1 Bead/Vertical Orientation
MWP-03	Metal - Wall Panel-03	07 42 13	MBCI	FW-120-1	Brite Red		Metal Panel with 1 Bead/Vertical Orientation
TF-03	Turf - Artificial-03	32 18 13	TBD	TBD	TBD		
FLOOR FINISH							
CO-01	Concrete - Sealed	03 30 00	As Specified	--	--	--	
CPT-01	Carpet - Field	09 68 16	Tarkett	Custom	115965046-10	Powerbond	
CPT-02	Carpet - Walk-Off	09 68 16	Tarkett	Assertive Action 04837	Blacksmith 26203	Powerbond	
RF-01	Rubber - Sports Floor - Field	09 65 00	Tarkett Sports	Dropzone Power	Red	--	
RF-02	Rubber - Sports Floor - Accent	09 65 00	Tarkett Sports	Droptile	Grey	25.4 mm	
RF-03	Rubber - Sports Floor - Dropzone Accent	09 65 00	Tarkett Sports	Droptile	TBD	25.4 mm	
RF-04	Rubber - Sports Floor - Dropzone Black	09 65 00	Tarkett Sports	Droptile	Black	25.4 mm	
RF-05	Resilient Floor - Field	09 65 19	Tarkett	IQ Optima	729 Light Black B	Roll	
RF-06	Resilient Floor - Accent	09 65 19	Tarkett	IQ Optima	877 Red	Roll	
T-08	Tile - Restrooms	09 30 00	Crossville	Nest	Meditative Oak AV357	8" x 36"	
T-09	Tile - Showers	09 30 00	Crossville	Shades 2.0	Mist SHD44; Unpolished	2" x 2" Mosaics	
TF-01	Turf - Artificial-01	32 18 13	Tarkett Sports	TBD	TBD	--	
TF-02	Turf - Artificial-02	32 18 13	Tarkett Sports	TBD	TBD	--	
TZ-01	Terrazzo - Field	09 66 23	Terrazzo & Marble	Terroxy	25GG-841	--	
TZ-02	Terrazzo - Accent Red	09 66 23	Terrazzo & Marble	Terroxy	25GG-844	--	
MILLWORK & ARCHITECTURAL FINISH							
PL-01	Plastic Laminate - Cabinets	12 32 00	Wilsonart	Virtual Design Library	Straight Cut Oak Charcoal YS009K-05	--	Run Wood Grain Vertical
PL-02	Plastic Laminate - Countertop	12 32 00	Wilsonart	Matte Finish	Panna Tessere 5049-60	--	
PL-03	Plastic Laminate - Existing Doors	12 32 16	Wilsonart	38 Fine Velvet Texture	Mission Maple 7990	--	Run Wood Grain Vertical
PT-06	Paint - H.M Doors & Frames	09 91 00	Sherwin Williams	--	SW 7068 Grizzle Gray	--	
SS-01	Solid Surface - Countertops	12 32 00	Wilsonart	--	Carbone Marmo 9914SS	--	
WALL FINISH							
PT-01	Paint - Field	09 91 00	Sherwin Williams	--	SW 7631 City Lofft	--	**REF. INT Elev, INT Finish Plans & RCPs
PT-02	Paint - Accent Dark Gray	09 91 00	Sherwin Williams	--	SW 7674 Peppercorn	--	**REF. INT Elev, INT Finish Plans & RCPs
PT-03	Paint - Accent Red	09 91 00	Sherwin Williams	--	SW 6871 Positive Red	--	**REF. INT Elev, INT Finish Plans & RCPs
RB-01	Rubber Base	09 65 00	Johnsonite	Traditional Vinyl	63 Burnt Umber	4"	
T-01	Tile - Large Format Panels	09 30 00	Crossville	Ossido	Nero L7032	40" x 118" Panels	**REF. 1/A3.21
T-02	Tile - Wainscot Field	09 30 00	Crossville	Shades 2.0	Ink SHD49; Semi-Polished	12" x 24:	**REF. 2/A3.31
T-03	Tile - Wainscot Bullnose	09 30 00	Crossville	Shades 2.0	Ink SHD49; Semi-Polished	4" x 24"	**REF. 2/A3.31
T-04	Tile - Restroom Field	09 30 00	Crossville	Shades 2.0	Mist SHD44; Unpolished	12" x 24"	**REF. 3/A3.31
T-05	Tile - Restroom Accent	09 30 00	Crossville	Shades 2.0	Mist SHD44; Unpolished	6" x 24"	**REF. 3/A3.31
T-06	Tile - Restroom Cove Base	09 30 00	Crossville	Shades 2.0	Mist SHD44; Unpolished	6" x 12" Cove Base	**REF. 3/A3.31
T-07	Tile - Backsplash	09 30 00	Crossville	Snippet	Lipstick SNP23; Gloss	3" x 12"	**REF. 1/A3.31
T-10	Tile - Base	09 30 00	Crossville	Shades 2.0	Ink SHD49; Semi-Polished	6" x 12" Cove Base	**REF. 14/A3.21
VWC-01	Vinyl Wallcovering - Accent	09 72 16	Koroseal	Arid	Red Rock DA21-07	--	**REF. INT Finish Plans

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT — MONIKA C. CASTILLO — 10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

MATERIAL FINISH SCHEDULES

SHEET NO.

A9.01

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INTERIOR FLOOR FINISH LEGEND

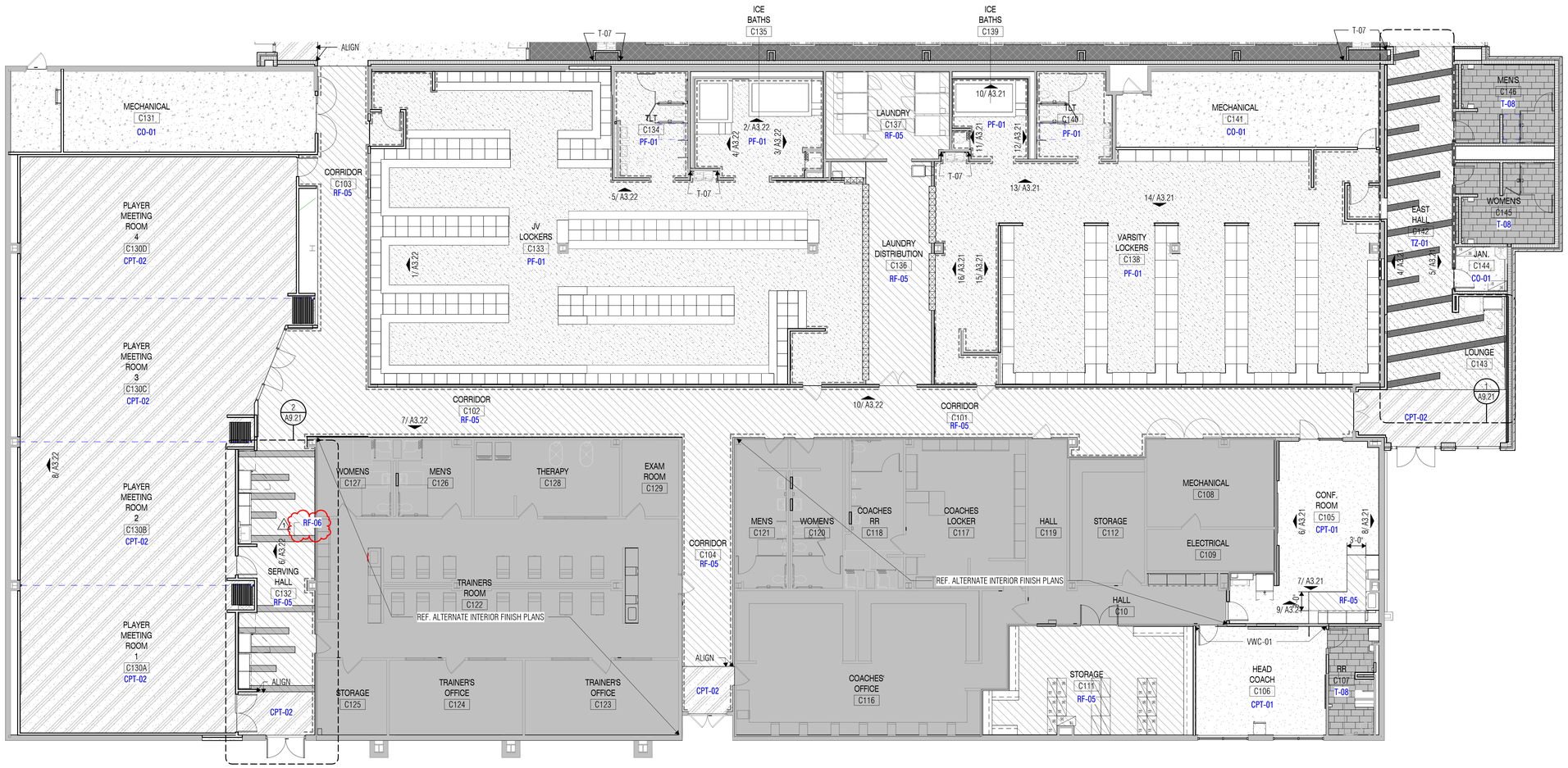
TYPE MARK	TYPE
	PLACEHOLDER - FLOORING
CO-01	Finish Floor - Concrete Sealed/Topping/Polished
CPT-01	Finish Floor - Carpet Field
CPT-03	Finish Floor - Carpet Walk Off
CSG-01	CSG-01_Concrete Slab on Grade
CSS-01	<varies>
RF-01	<varies>
RF-02	<varies>
RF-03	Finish Floor - Rubber - Sports Floor - Dropzone Accent
RF-04	Finish Floor - Rubber - Sports Floor - Dropzone Black
SF	Finish Floor - Turf - White
SW-1	Site - Sidewalk - 5"
T-01	Finish Floor - Porcelain Tile Field
TF-01	Finish Floor - Indoor Turf - Red
TF-03	Turf - Green - Practice
TZ-01	Finish - Terrazzo - Field
TZ-02	Finish Floor - Terrazzo - Accent Red

WALL FINISH LEGEND

WTP-01	WALL TILE PATTERN - WAINSCOT 12" x 24"
CG	CORNER GUARD
PT	PAINT

INTERIOR FINISH SCHEDULE NOTES

1. **General Finish Notes**
   - A. Any finish conflict between finish schedules and finish floor plans to be brought to the Architect's attention for resolution.
2. **Floor Finishes**
   - A. Refer to Interior Finish Plans for floor finish patterns.
   - B. Refer to Interior Finish Plans for tile origin in each room. If origin point is not indicated, center in middle of the room or corridor.
   - C. All changes in floor material between rooms shall occur at centerline of doorway, U.N.O.
   - D. Level and float flooring at public corridor walls.
   - E. All toilets and other areas capable of water incursion shall have a 2" x ½" wide marble threshold with ¼" beveled edges centered under each door.
   - F. Sealant color shall match adjacent material.
   - G. Typical flooring application at brick walls:
     1. Resilient Tile/ Sheet Flooring: Rake brick joint at floor level and install sealant between LVT and brick.
     2. Carpet: Rake brick joint at floor level and tuck carpet tight into raked brick joint.
3. **Wall Finishes**
   - A. Finishes shall continue to inside corner, U.N.O.
   - B. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - C. **Vinyl Wallcovering Information**:
     1. No vinyl wallcovering should be terminated at an outside corner. All vinyl wallcovering to wrap to inside corner,U.N.O.
     2. Provide Corner Guard at any vinyl wall covering outside corner when the color changes at the corner.
     3. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - D. **Paint Information:**
     1. **Walls:**
        - a. All exterior walls with gypsum board interior shall be painted PT-01, U.N.O.
        - b. All interior sealants shall be painted to match adjacent wall.
     2. **Hollow Metal Doors and Windows:**
        - a. Hollow metal doors shall be painted PT-06, U.N.O.
        - b. Hollow metal door frames and vision panel frames shall be painted PT-06, U.N.O.
        - c. At door frames with 2 different colors, transition color at inside corner of door stop, on the door side of the stop.
        - d. Hollow metal glazed opening frames shall be painted PT-06, U.NO.
     3. At painted CMU base, color shall match the wall above.
4. **Ceiling Finishes**
   - A. Refer to Reflected Ceiling Plans for scheduled finish.
   - B. At ceilings with exposed structure, all exposed elements shall be painted the scheduled color, including mechanical ductwork, electrical, piping, conduit, j-boxes, etc.
   - C. All interior gypsum board ceilings to be painted PT-01, U.N.O.
   - D. All interior gypsum board furr-downs to be painted PT-01, U.N.O.
5. **Tiling**
   - A. Refer to Detail 2/A3.31 for typical tile wainscot wall pattern.
   - B. Refer to Detail 3/A3.31 for typical toilet room wall pattern.
   - C. Refer to Detail 1/A3.31 for typical drinking fountain wall pattern.
   - D. At outside corners and exposed edges of ceramic or porcelain tile, provide anodized aluminum trim, unless otherwise detailed.
   - E. Provide Metal Trim WFA-01 at all outside and/or exposed tile locations (top, bottom, and corners) in corridors, whether indicated on finish plans or not.
6. **Casework/ Architectural Woodwork**
   1. Typical Casework/Millwork cabinet body, doors, and drawer fronts shall be PL-01, U.N.O.
   2. Countertops shall be PL-02, or SS-01 U.N.O
   3. Interior Plastic Laminate clad wood doors to be PL-01.
   4. Window Sills shall be PL-02, U.N.O.
   5. Consultant to match specified finishes. 1



1 INTERIOR PLAN - LEVEL ONE - UNIT A
SCALE: 1/8" = 1'-0"

KEY PLAN

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT MONIKA C. CASTILLO 26558 STATE OF TEXAS

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

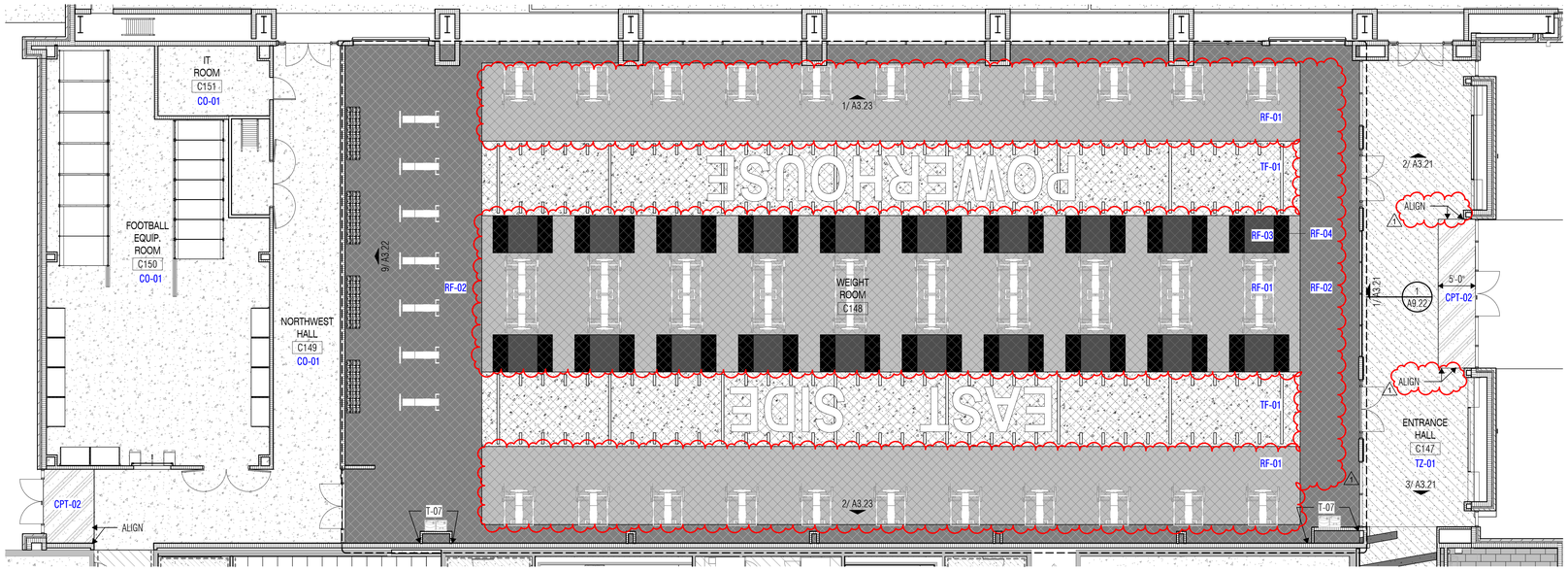
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
INTERIOR FINISH PLAN - LEVEL ONE - UNIT A

SHEET NO.
A9.11A

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1 INTERIOR PLAN - LEVEL ONE - UNIT B
SCALE: 1/8" = 1'-0"

INTERIOR FINISH SCHEDULE NOTES

1. **General Finish Notes**
   - A. Any finish conflict between finish schedules and finish floor plans to be brought to the Architect's attention for resolution.
2. **Floor Finishes**
   - A. Refer to Interior Finish Plans for floor finish patterns.
   - B. Refer to Interior Finish Plans for tile origin in each room. If origin point is not indicated, center in middle of the room or corridor.
   - C. All changes in floor material between rooms shall occur at centerline of doorway, U.N.O.
   - D. Level and float flooring at public corridor walls.
   - E. All toilets and other areas capable of water incursion shall have a 2" x ½" wide marble threshold with ¼" beveled edges centered under each door.
   - F. Sealant color shall match adjacent material.
   - G. Typical flooring application at brick walls:
     1. Resilient Tile/ Sheet Flooring: Rake brick joint at floor level and install sealant between LVT and brick.
     2. Carpet: Rake brick joint at floor level and tuck carpet tight into raked brick joint.
3. **Wall Finishes**
   - A. Finishes shall continue to inside corner, U.N.O.
   - B. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - C. **Vinyl Wallcovering Information**:
     1. No vinyl wallcovering should be terminated at an outside corner. All vinyl wallcovering to wrap to inside corner,U.N.O.
     2. Provide Corner Guard at any vinyl wall covering outside corner when the color changes at the corner.
     3. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - D. **Paint Information:**
     1. **Walls:**
        - a. All exterior walls with gypsum board interior shall be painted PT-01, U.N.O.
        - b. All interior sealants shall be painted to match adjacent wall.
     2. **Hollow Metal Doors and Windows:**
        - a. Hollow metal doors shall be painted PT-06, U.N.O.
        - b. Hollow metal door frames and vision panel frames shall be painted PT-06, U.N.O.
        - c. At door frames with 2 different colors, transition color at inside corner of door stop, on the door side of the stop.
        - d. Hollow metal glazed opening frames shall be painted PT-06, U.NO.
     3. At painted CMU base, color shall match the wall above.
4. **Ceiling Finishes**
   - A. Refer to Reflected Ceiling Plans for scheduled finish.
   - B. At ceilings with exposed structure, all exposed elements shall be painted the scheduled color, including mechanical ductwork, electrical, piping, conduit, j-boxes, etc.
   - C. All interior gypsum board ceilings to be painted PT-01, U.N.O.
   - D. All interior gypsum board furr-downs to be painted PT-01, U.N.O.
5. **Tiling**
   - A. Refer to Detail 2/A3.31 for typical tile wainscot wall pattern.
   - B. Refer to Detail 3/A3.31 for typical toilet room wall pattern.
   - C. Refer to Detail 1/A3.31 for typical drinking fountain wall pattern.
   - D. At outside corners and exposed edges of ceramic or porcelain tile, provide anodized aluminum trim, unless otherwise detailed.
   - E. Provide Metal Trim WFA-01 at all outside and/or exposed tile locations (top, bottom, and corners) in corridors, whether indicated on finish plans or not.
6. **Casework/ Architectural Woodwork**
   1. Typical Casework/Millwork cabinet body, doors, and drawer fronts shall be PL-01, U.N.O.
   2. Countertops shall be PL-02, or SS-01 U.N.O
   3. Interior Plastic Laminate clad wood doors to be PL-01.
   4. Window Sills shall be PL-02, U.N.O.
   5. Consultant to match specified finishes.

WALL FINISH LEGEND

WTP-01	WALL TILE PATTERN - WAINSCOT 12" x 24"
CG	CORNER GUARD
PT	PAINT

INTERIOR FLOOR FINISH LEGEND

TYPE MARK	TYPE
	PLACEHOLDER - FLOORING
CO-01	Finish Floor - Concrete Sealed/Topping/Polished
CPT-01	Finish Floor - Carpet Field
CPT-03	Finish Floor - Carpet Walk Off
CSG-01	CSG-01_Concrete Slab on Grade
CSS-01	<varies>
RF-01	<varies>
RF-02	<varies>
RF-03	Finish Floor - Rubber - Sports Floor - Dropzone Accent
RF-04	Finish Floor - Rubber - Sports Floor - Dropzone Black
SF	Finish Floor - Turf - White
SW-1	Site - Sidewalk - 5"
T-01	Finish Floor - Porcelain Tile Field
TF-01	Finish Floor - Indoor Turf - Red
TF-03	Turf - Green - Practice
TZ-01	Finish - Terrazzo - Field
TZ-02	Finish Floor - Terrazzo - Accent Red

KEY PLAN
C D B A

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HOUSTON, TEXAS

T-07

REGISTERED ARCHITECT MONIKA C. CASTILLO 26558 STATE OF TEXAS
10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

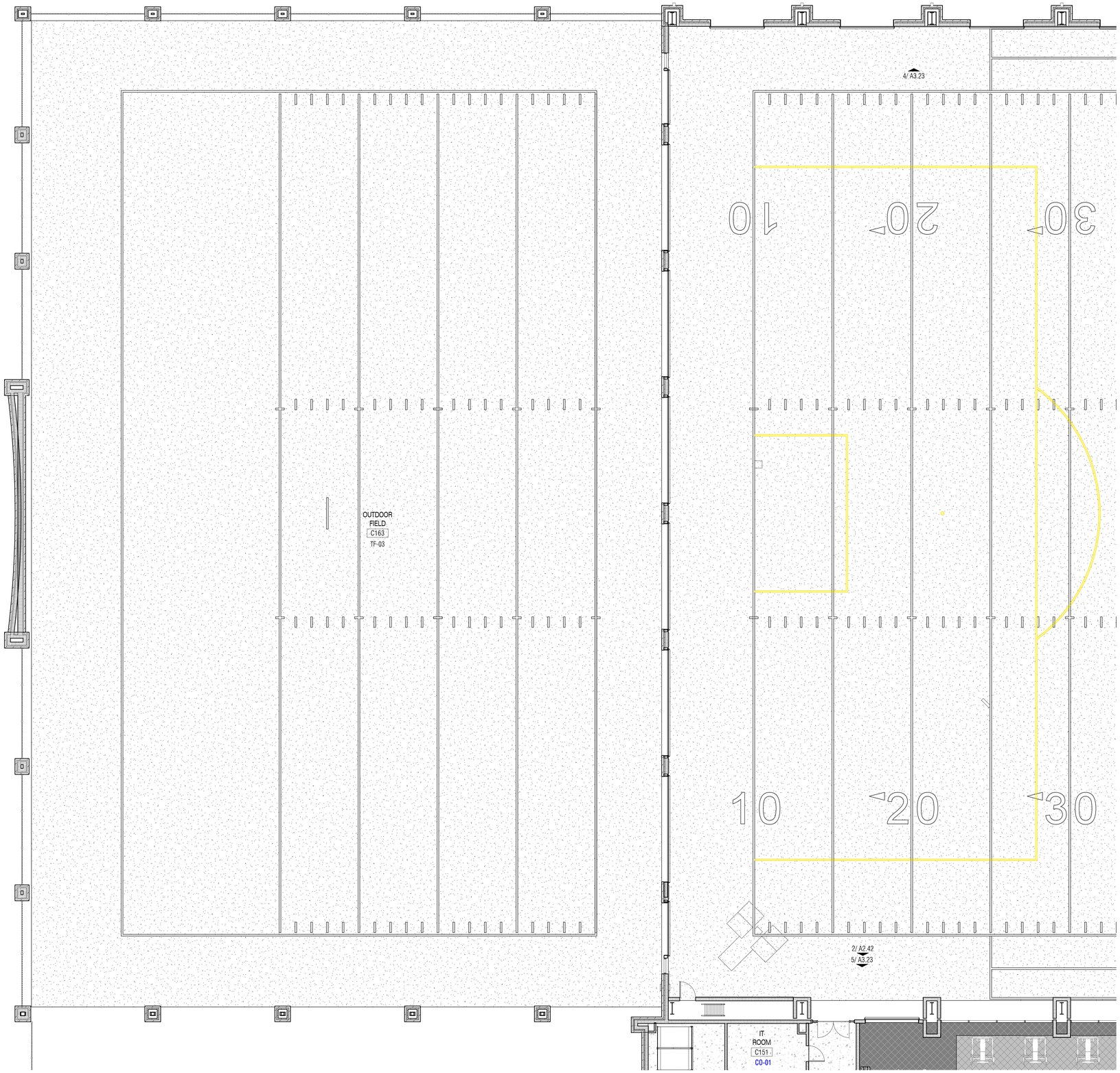
PROJECT NO.
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SHEET TITLE
INTERIOR FINISH PLAN - LEVEL ONE - UNIT B

SHEET NO.
A9.11B

North Shore Multi-Use Indoor Facility

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1 INTERIOR PLAN - LEVEL ONE - UNIT C
SCALE: 1/8" = 1'-0"

INTERIOR FINISH SCHEDULE NOTES

1. **General Finish Notes**
   - A. Any finish conflict between finish schedules and finish floor plans to be brought to the Architect's attention for resolution.
2. **Floor Finishes**
   - A. Refer to Interior Finish Plans for floor finish patterns.
   - B. Refer to Interior Finish Plans for tile origin in each room. If origin point is not indicated, center in middle of the room or corridor.
   - C. All changes in floor material between rooms shall occur at centerline of doorway, U.N.O.
   - D. Level and float flooring at public corridor walls.
   - E. All toilets and other areas capable of water incursion shall have a 2" x ½" wide marble threshold with ¼" beveled edges centered under each door.
   - F. Sealant color shall match adjacent material.
   - G. Typical flooring application at brick walls:
     1. Resilient Tile/ Sheet Flooring: Rake brick joint at floor level and install sealant between LVT and brick.
     2. Carpet: Rake brick joint at floor level and tuck carpet tight into raked brick joint.
3. **Wall Finishes**
   - A. Finishes shall continue to inside corner, U.N.O.
   - B. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - C. **Vinyl Wallcovering Information**:
     1. No vinyl wallcovering should be terminated at an outside corner. All vinyl wallcovering to wrap to inside corner,U.N.O.
     2. Provide Corner Guard at any vinyl wall covering outside corner when the color changes at the corner.
     3. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - D. **Paint Information:**
     1. **Walls:**
        - a. All exterior walls with gypsum board interior shall be painted PT-01, U.N.O.
        - b. All interior sealants shall be painted to match adjacent wall.
     2. **Hollow Metal Doors and Windows:**
        - a. Hollow metal doors shall be painted PT-06, U.N.O.
        - b. Hollow metal door frames and vision panel frames shall be painted PT-06, U.N.O.
        - c. At door frames with 2 different colors, transition color at inside corner of door stop, on the door side of the stop.
        - d. Hollow metal glazed opening frames shall be painted PT-06, U.NO.
     3. At painted CMU base, color shall match the wall above.
4. **Ceiling Finishes**
   - A. Refer to Reflected Ceiling Plans for scheduled finish.
   - B. At ceilings with exposed structure, all exposed elements shall be painted the scheduled color, including mechanical ductwork, electrical, piping, conduit, j-boxes, etc.
   - C. All interior gypsum board ceilings to be painted PT-01, U.N.O.
   - D. All interior gypsum board furr-downs to be painted PT-01, U.N.O.
5. **Tiling**
   - A. Refer to Detail 2/A3.31 for typical tile wainscot wall pattern.
   - B. Refer to Detail 3/A3.31 for typical toilet room wall pattern.
   - C. Refer to Detail 1/A3.31 for typical drinking fountain wall pattern.
   - D. At outside corners and exposed edges of ceramic or porcelain tile, provide anodized aluminum trim, unless otherwise detailed.
   - E. Provide Metal Trim WFA-01 at all outside and/or exposed tile locations (top, bottom, and corners) in corridors, whether indicated on finish plans or not.
6. **Casework/ Architectural Woodwork**
   1. Typical Casework/Millwork cabinet body, doors, and drawer fronts shall be PL-01, U.N.O.
   2. Countertops shall be PL-02, or SS-01 U.N.O
   3. Interior Plastic Laminate clad wood doors to be PL-01.
   4. Window Sills shall be PL-02, U.N.O.
   5. Consultant to match specified finishes. 1

WALL FINISH LEGEND

==========	WTP-01 WALL TILE PATTERN - WAINSCOT 12" x 24"
	CG CORNER GUARD
	PT PAINT

INTERIOR FLOOR FINISH LEGEND

TYPE MARK	TYPE
	PLACEHOLDER - FLOORING
CO-01	Finish Floor - Concrete Sealed/Topping/Polished
CPT-01	Finish Floor - Carpet Field
CPT-03	Finish Floor - Carpet Walk Off
CSG-01	CSG-01_Concrete Slab on Grade
CSS-01	<varies>
RF-01	<varies>
RF-02	<varies>
RF-03	Finish Floor - Rubber - Sports Floor - Dropzone Accent
RF-04	Finish Floor - Rubber - Sports Floor - Dropzone Black
SF	Finish Floor - Turf - White
SW-1	Site - Sidewalk - 5"
T-01	Finish Floor - Porcelain Tile Field
TF-01	Finish Floor - Indoor Turf - Red
TF-03	Turf - Green - Practice
TZ-01	Finish - Terrazzo - Field
TZ-02	Finish Floor - Terrazzo - Accent Red

KEY PLAN
C D
B
A

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GALENA PARK ISD
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MONIKA C. CASTILLO 26558 REGISTERED ARCHITECT STATE OF TEXAS
10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

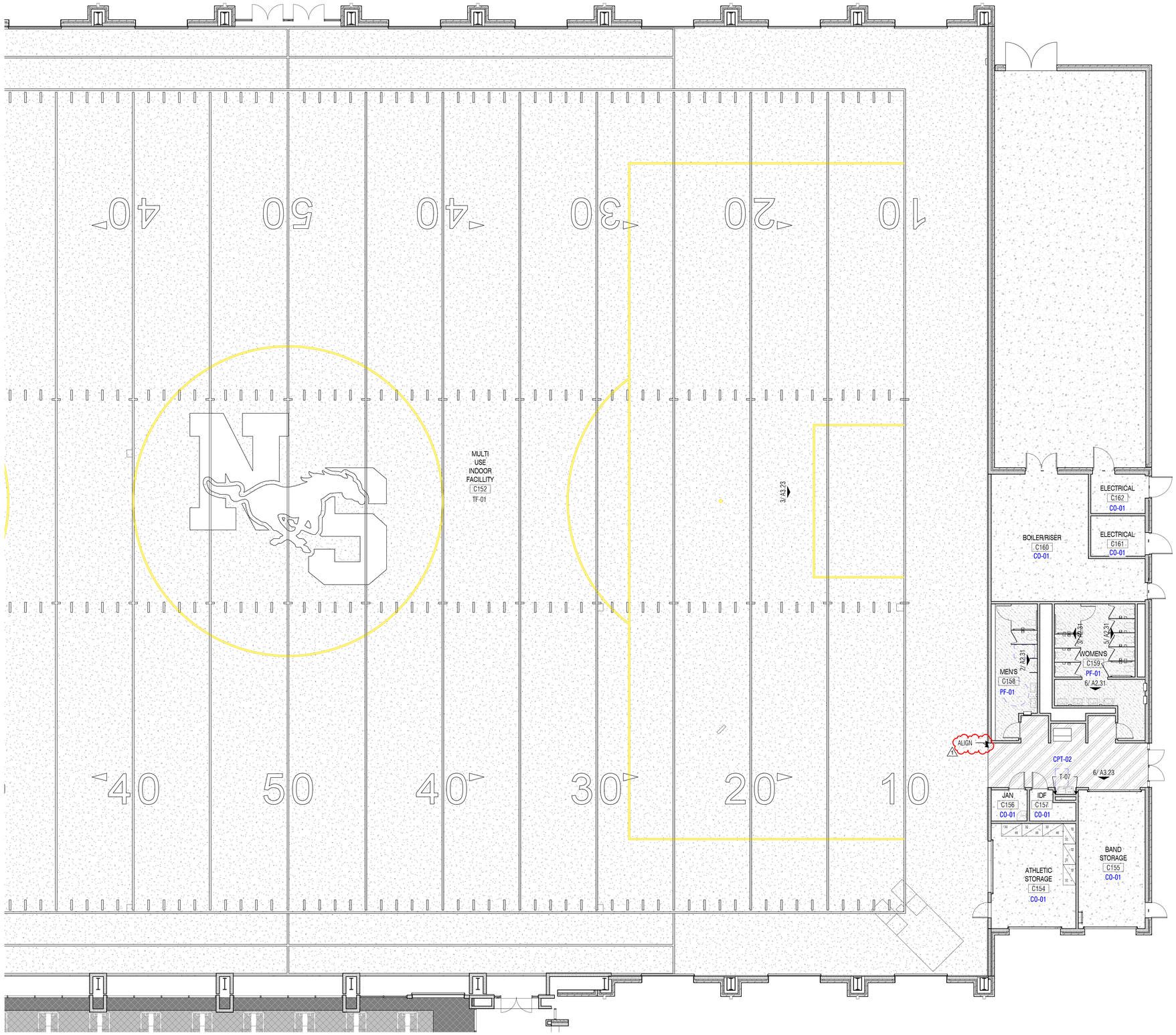
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25-0056.00

SHEET TITLE
INTERIOR FINISH PLAN - LEVEL ONE - UNIT C

SHEET NO.
A9.11C

North Shore Multi-Use Indoor Facility

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1 INTERIOR PLAN - LEVEL ONE - UNIT D
SCALE: 1/8" = 1'-0"

INTERIOR FINISH SCHEDULE NOTES

1. **General Finish Notes**
   - A. Any finish conflict between finish schedules and finish floor plans to be brought to the Architect's attention for resolution.
2. **Floor Finishes**
   - A. Refer to Interior Finish Plans for floor finish patterns.
   - B. Refer to Interior Finish Plans for tile origin in each room. If origin point is not indicated, center in middle of the room or corridor.
   - C. All changes in floor material between rooms shall occur at centerline of doorway, U.N.O.
   - D. Level and float flooring at public corridor walls.
   - E. All toilets and other areas capable of water incursion shall have a 2" x ½" wide marble threshold with ¼" beveled edges centered under each door.
   - F. Sealant color shall match adjacent material.
   - G. Typical flooring application at brick walls:
     1. Resilient Tile/ Sheet Flooring: Rake brick joint at floor level and install sealant between LVT and brick.
     2. Carpet: Rake brick joint at floor level and tuck carpet tight into raked brick joint.
3. **Wall Finishes**
   - A. Finishes shall continue to inside corner, U.N.O.
   - B. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - C. **Vinyl Wallcovering Information**:
     1. No vinyl wallcovering should be terminated at an outside corner. All vinyl wallcovering to wrap to inside corner,U.N.O.
     2. Provide Corner Guard at any vinyl wall covering outside corner when the color changes at the corner.
     3. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - D. **Paint Information:**
     1. **Walls:**
        - a. All exterior walls with gypsum board interior shall be painted PT-01, U.N.O.
        - b. All interior sealants shall be painted to match adjacent wall.
     2. **Hollow Metal Doors and Windows:**
        - a. Hollow metal doors shall be painted PT-06, U.N.O.
        - b. Hollow metal door frames and vision panel frames shall be painted PT-06, U.N.O.
        - c. At door frames with 2 different colors, transition color at inside corner of door stop, on the door side of the stop.
        - d. Hollow metal glazed opening frames shall be painted PT-06, U.NO.
     3. At painted CMU base, color shall match the wall above.
4. **Ceiling Finishes**
   - A. Refer to Reflected Ceiling Plans for scheduled finish.
   - B. At ceilings with exposed structure, all exposed elements shall be painted the scheduled color, including mechanical ductwork, electrical, piping, conduit, j-boxes, etc.
   - C. All interior gypsum board ceilings to be painted PT-01, U.N.O.
   - D. All interior gypsum board furr-downs to be painted PT-01, U.N.O.
5. **Tiling**
   - A. Refer to Detail 2/A3.31 for typical tile wainscot wall pattern.
   - B. Refer to Detail 3/A3.31 for typical toilet room wall pattern.
   - C. Refer to Detail 1/A3.31 for typical drinking fountain wall pattern.
   - D. At outside corners and exposed edges of ceramic or porcelain tile, provide anodized aluminum trim, unless otherwise detailed.
   - E. Provide Metal Trim WFA-01 at all outside and/or exposed tile locations (top, bottom, and corners) in corridors, whether indicated on finish plans or not.
6. **Casework/ Architectural Woodwork**
   1. Typical Casework/Millwork cabinet body, doors, and drawer fronts shall be PL-01, U.N.O.
   2. Countertops shall be PL-02, or SS-01 U.N.O
   3. Interior Plastic Laminate clad wood doors to be PL-01.
   4. Window Sills shall be PL-02, U.N.O.
   5. Consultant to match specified finishes.

WALL FINISH LEGEND

WTP-01	WALL TILE PATTERN - WAINSCOT 12" x 24"
CG	CORNER GUARD
PT	PAINT

INTERIOR FLOOR FINISH LEGEND

TYPE MARK	TYPE
	PLACEHOLDER - FLOORING
CO-01	Finish Floor - Concrete Sealed/Topping/Polished
CPT-01	Finish Floor - Carpet Field
CPT-03	Finish Floor - Carpet Walk Off
CSG-01	CSG-01_Concrete Slab on Grade
CSS-01	<varies>
RF-01	<varies>
RF-02	<varies>
RF-03	Finish Floor - Rubber - Sports Floor - Dropzone Accent
RF-04	Finish Floor - Rubber - Sports Floor - Dropzone Black
SF	Finish Floor - Turf - White
SW-1	Site - Sidewalk - 5"
T-01	Finish Floor - Porcelain Tile Field
TF-01	Finish Floor - Indoor Turf - Red
TF-03	Turf - Green - Practice
TZ-01	Finish - Terrazzo - Field
TZ-02	Finish Floor - Terrazzo - Accent Red

KEY PLAN
C D B A

VLK

ARCHITECT

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

REGISTERED ARCHITECT MONIKA C. CASTILLO 26558 STATE OF TEXAS
10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

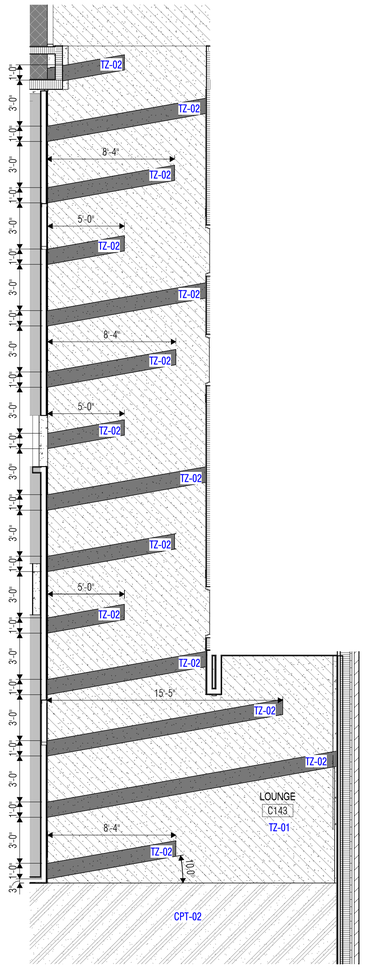
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

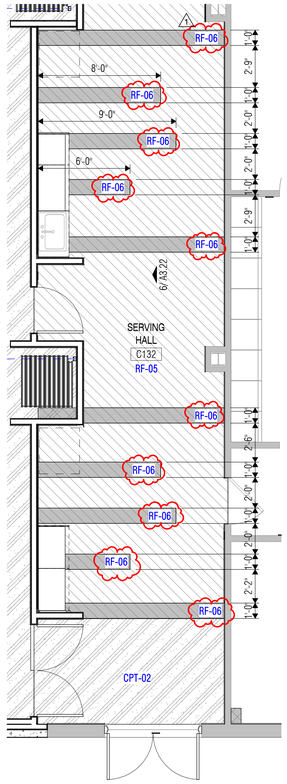
SHEET TITLE
INTERIOR FINISH PLAN - LEVEL ONE - UNIT D

SHEET NO.
A9.11D

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1 ENLARGED TERRAZZO FLOOR PATTERN - LOUNGE
SCALE: 1/4" = 1'-0"



2 ENLARGED RESILIENT FLOOR PATTERN - SERVING HALL
SCALE: 1/4" = 1'-0"

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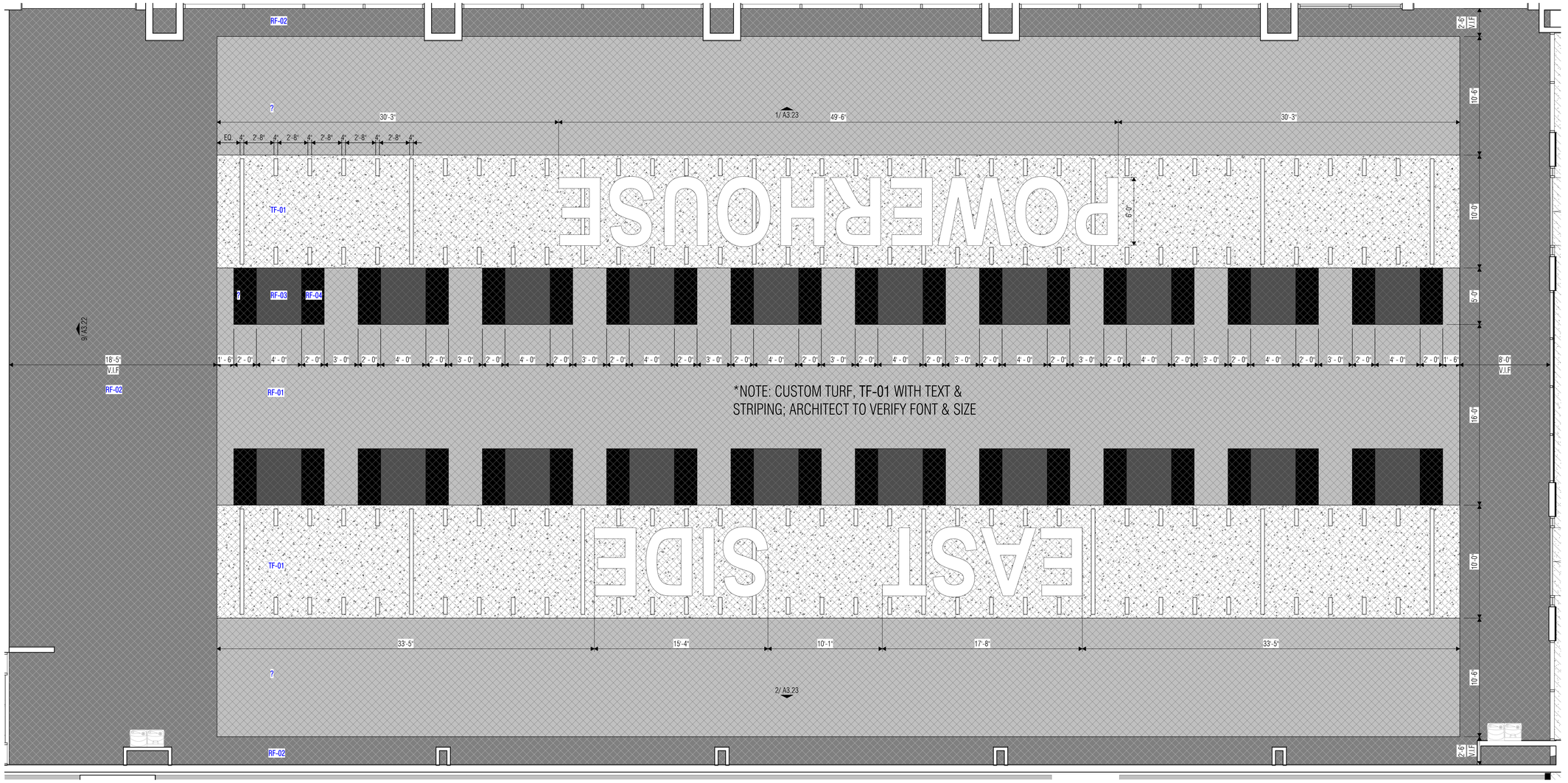
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ENLARGED INTERIOR FINISH PLANS

SHEET NO.
A9.21

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1 ENLARGED RUBBER FLOOR PATTERNS - WEIGHT ROOM
SCALE: 1/4" = 1'-0"

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10/08/2025

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Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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SHEET TITLE
ENLARGED INTERIOR FINISH PLANS

SHEET NO.
A9.22

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PRE-ENGINEERED METAL BUILDING (PEMB)

1. ALL ROOF COMPONENTS INCLUDING PURLINS AND BUILDING FRAME SHALL BE DESIGNED BY METAL FRAME SUPPLIER. ALL OTHER STEEL MEMBERS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER.
2. ALL DESIGNS SHALL CONFORM TO AISC, AISI AND MBMA STANDARDS (LATEST EDITION).
3. ALL ROOF DECK SYSTEMS SHALL CONFORM TO THE UL WIND-UPLIFT RATING OF CLASS 90.
4. ALL BUILDING FRAMES SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF H/400 UNDER LATERAL LOADS (H = HEIGHT OF BUILDING FRAME). 1
5. GIRTS SUPPORTING BRICK/CMU SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/600 (L = SPAN OF GIRT). MEMBERS SUPPORTING BRICK/CMU SHALL HAVE A VERTICAL DEFLECTION OF L/600.
6. ALL PURLINS SHALL BE DESIGNED FOR DEAD LOADS SHOWN ON ARCHITECTURAL DRAWINGS, INCLUDING MISCELLANEOUS FRAMING TO CARRY SUPERIMPOSED DEAD LOADS.
7. BUILDING FRAMES SHALL BE DESIGNED FOR THE LATERAL STABILITY OF THE BUILDING IN BOTH DIRECTIONS. EXAMINE THE CONSTRUCTION DOCUMENTS TO DETERMINE THE PREFERRED LOCATIONS OF LATERAL FRAMES. NO X-BRACES OR ROD BRACES ARE ALLOWED IN THE VERTICAL PLANE AT ANY LOCATIONS IN THESE DOCUMENTS.
8. FOUNDATION DESIGN IS BASED ON THE ROOF LOADINGS SPECIFIED BY THE MBMA AND ANY OTHER ADDITIONAL LOADS IMPOSED BY THE BUILDING USE. SUBMIT REACTIONS FROM METAL BUILDING FRAME (AT LEAST 6 WEEKS PRIOR TO THE POURING OF THE FOUNDATION) TO CONFIRM THE DESIGN OF FOOTINGS. GENERAL CONTRACTOR SHALL CONFIRM FOOTING SIZES WITH THE STRUCTURAL ENGINEER AFTER ACTUAL REACTIONS ARE RECEIVED FROM THE METAL BUILDING FRAME SUPPLIER. MODIFICATIONS TO FOUNDATION AND/OR DETAILS RESULTING FROM SUCH REVIEW SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL BUILDING SUPPLIERS. NO ADDITIONAL COST PROPOSALS WILL BE ENTERTAINED.
9. SUBMIT SHOP DRAWINGS FOR BUILDING METAL BUILDING FRAMES, INCLUDING ALL CONNECTIONS. ALL SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
10. ALL WELDING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF AWS.
11. THE FOUNDATION HAS BEEN DESIGNED ASSUMING THAT RIGID FRAMES ARE PINNED AT THE BASE. THE FOOTINGS HAVE NOT BEEN DESIGNED FOR MOMENTS DUE TO FIXITY AT THE BASE.
12. THE METAL BUILDING MANUFACTURER SHALL TAKE INTO ACCOUNT LATERAL LOADS FOR BRACING PERIMETER/INTERIOR WALLS. THE TOP OF ALL WALLS SHALL BE BRACED BY THE METAL BUILDING STRUCTURE. PROVIDE STEEL MEMBERS AS REQUIRED.
13. THE METAL BUILDING MANUFACTURER SHALL REVIEW ALL PLANS (ARCHITECTURAL, STRUCTURAL, MEP, ETC.) DETAILS AND SPECIFICATIONS AND MAKE PROVISIONS FOR THE SUPPORT OF ALL ELEMENTS DESIGNATED TO BE SUPPORTED OR BRACED BY THE STRUCTURE, INCLUDING ANY HANGING ELEMENTS FROM THE ROOF, PIPING, DUCTS, CLADDING/WALL SUPPORT, MEP ELEMENTS SUPPORT, ETC. SUCH WORK IS NOT IN MSE'S SCOPE OF WORK. ANY SUCH MISSING ELEMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL FRAMING SUPPLIER.
14. MATRIX STRUCTURAL ENGINEER'S SCOPE OF WORK IS STRICTLY FOR FOUNDATION DESIGN ONLY. ANY FRAMING SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE AND IS PROVIDED FOR THE CONVENIENCE OF THE METAL BUILDING MANUFACTURER. IF ADDITIONAL MOMENT FRAMES AND/OR BRACED BAYS ARE REQUIRED, PLEASE COORDINATE SUCH LOCATIONS WITH ARCHITECT. ANY WORK RELATED TO STRUCTURAL FRAMING (INCLUDING MEZZANINES, SECOND FLOOR, STAIRS, HANDRAILS, ETC., LATERAL BRACING OF WALLS AND OTHER COMPONENTS) IS IN THE SCOPE OF THE GENERAL CONTRACTOR AND THE METAL BUILDING SUPPLIER.
15. ALL ANCHOR BOLTS SHALL BE SUPPLIED BY THE BUILDING MANUFACTURER. THE MINIMUM EMBEDMENT DEPTH INTO CONCRETE SHALL BE 1' - 6" U.N.O.
16. PROVIDE (2) - #5 (WITH 4' - 0" LEGS) V SHAPED HAIRPIN BARS AT THE BASE OF ALL EXTERIOR COLUMNS, U.N.O.
17. ALL EXPOSED STEEL MEMBERS (INCLUDING CONNECTIONS AND ASSOCIATED ACCESSORIES) SHALL BE GALVANIZED.
18. NO EXCLUSIONS FROM PROVIDING A TOTAL AND COMPLETE BUILDING FRAMING PACKAGE WILL BE ENTERTAINED.

CONCRETE MASONRY

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF TMS-402 CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES 1
2. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, UNLESS SPECIFIED OTHERWISE. CMU SHALL BE NORMAL WEIGHT (LESS THAN 125 PCF, OVEN DRY UNIT WEIGHT). THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (f'M) SHALL BE 2000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD.
3. UNLESS SPECIFIED OTHERWISE, ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF MASONRY UNITS, ASTM C270, TYPE S EXCEPT FOR MASONRY IN CONTACT WITH THE EARTH SHALL BE TYPE M.
4. ALL GROUT SHALL BE FINE GROUT CONTAINING SAND, PORTLAND CEMENT, AND LIME (OPTIONAL) FOR GROUT SPACES LESS THAN 2 INCHES IN ANY HORIZONTAL DIRECTION, UNLESS SPECIFIED OTHERWISE. GROUT SHALL ATTAIN A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 2500 PSI TESTED ACCORDING TO ASTM C476.
5. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR AT A MAXIMUM SPACING OF 24 FEET ON CENTERS OR 3 TIMES THE WALL HEIGHT, WHICHEVER IS LESS. ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND.
6. PROVIDE HORIZONTAL JOINT REINFORCING (TRUSS OR LADDER TYPE, 9 GAUGE) AT 16 INCHES ON CENTER FOR ALL CMU WALLS LAID IN A RUNNING BOND AND AT 8 INCHES ON CENTER FOR ALL CMU WALLS NOT LAID IN A RUNNING BOND. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED A MINIMUM OF 6". REINFORCEMENT SHALL CONFORM TO ASTM A951 AND SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
7. ALL HORIZONTAL REINFORCING STEEL IN BOND BEAMS AND LINTEL BLOCK UNITS SHALL BE CONTINUOUS AND UNITS SHALL BE SOLID GROUTED. PROVIDE 48 TIMES BAR DIAMETER LAP FOR HORIZONTAL REINFORCING IN BOND BEAMS. NO SPLICES SHALL BE PROVIDED FOR HORIZONTAL REINFORCING IN BLOCK LINTELS.
8. GROUT CELLS SOLID WHERE VERTICAL BARS ARE SHOWN ON THE DRAWINGS. VERTICAL BARS SHALL EXTEND FROM BOTTOM TO THE TOP OF THE WALL. AT EACH VERTICAL BAR, PROVIDE MATCHING BAR SIZE DOWEL INTO FOUNDATIONS. PROVIDE MINIMUM 48 TIMES BAR DIAMETER SPLICE FOR VERTICAL BARS WHERE REQUIRED AND/OR SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE.
9. GROUT LIFTS SHALL TERMINATE TO FORM A GROUT KEY A MINIMUM OF 1 1/2" BELOW MORTAR JOINTS WHEN SUBSEQUENT GROUT LIFTS WILL HAPPEN AFTER PREVIOUS GROUT LIFTS HAVE SET. GROUT KEYS IN BOND BEAMS OR LINTELS SHALL NOT BE PERMITTED.
10. MAXIMUM GROUT POUR HEIGHT SHALL BE 5' - 4" (8 BLOCK COURSES).
11. PROVIDE A BOND BEAM AT THE TOP OF ALL CMU WALLS AND REINFORCE WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, ALL EXTERIOR BOND BEAMS SHALL BE REINFORCED WITH (2) - #5 CONTINUOUS AND ALL INTERIOR BOND BEAMS SHALL BE REINFORCED WITH (2) - #4 CONTINUOUS. BOND BEAM REINFORCING SHALL NOT BE CONTINUED THROUGH CONTROL JOINT LOCATIONS.
12. PROVIDE BOND BEAMS AT A MAXIMUM OF 48 INCHES ON CENTER IN ALL EXTERIOR AND LOAD BEARING CMU WALLS NOT LAID IN A RUNNING BOND (E.G. STACK BOND). REINFORCED WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE BOND BEAM REINFORCEMENT SHALL BE DISCONTINUED AT CONTROL JOINTS.
13. AT THE END OF EACH DAY AND DURING INCLEMENT WEATHER, ALL UNFINISHED MASONRY WORK SHALL BE COVERED AT THE TOP OF WALL AND EXTEND DOWN ALL SIDES A MINIMUM OF 24".
14. SEE TYPICAL DETAILS FOR INTERIOR WALL HEIGHT, BRACING AND REINFORCING REQUIREMENTS.
15. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH MASONRY WALLS DO NOT REQUIRE SLEEVES. UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE GROUTING. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN GROUTED MASONRY IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH MASONRY LINTELS UNLESS SPECIFICALLY DETAILED.
16. ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO THREE (3) FEET WIDE, SHALL HAVE ONE VERTICAL BAR MINIMUM AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAN 3 FEET WIDE, PROVIDE TWO (2) VERTICAL BARS AT EACH SIDE OF OPENINGS UNLESS NOTED OTHERWISE. REINFORCING AT EDGES OF OPENING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.
17. ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL BAR (MINIMUM) IN GROUTED CELL. REINFORCING SHALL MATCH TYPICAL WALL VERTICAL REINFORCEMENT.
18. PROVIDE ONE VERTICAL BAR (MINIMUM) IN THE FIRST CELL EACH SIDE OF CONTROL JOINTS. REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.
19. FOR ANCHORED MASONRY VENEER, THE DISTANCE BETWEEN THE INSIDE FACE OF THE VENEER AND THE COLD-FORMED STEEL, MASONRY, WOOD, OR CONCRETE BACKUP SHALL BE AS SPECIFIED BY THE ARCHITECT, BUT NOT GREATER THAN 4 1/2". A MINIMUM 1 INCH AIR SPACE SHALL BE PROVIDED.
20. ANCHORED MASONRY VENEER NOT LAID IN A RUNNING BOND SHALL HAVE A JOINT REINFORCEMENT OF AT LEAST ONE WIRE, OF SIZE W1.7, SPACED AT A MAXIMUM OF 18 INCHES ON CENTER VERTICALLY.
21. ALL CONCRETE MASONRY AND MASONRY VENEER SHALL HAVE A MINIMUM BEARING WIDTH OF 2/3 THE WIDTH OF THE MASONRY UNIT.
22. SPECIAL INSPECTION, IN ACCORDANCE WITH THE BUILDING CODE REFERENCED ABOVE, SHALL BE PROVIDED FOR ALL CMU WALLS.

SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

   CONCRETE MIX DESIGNS AND ACCESSORIES
   REINFORCING STEEL
   STRUCTURAL STEEL (*,^)
   METAL DECK
   BAR JOISTS (^)
   MISCELLANEOUS STEEL
   STEEL STAIR (*,^)
   PRE-ENGINEERED METAL BUILDING (*,#)
   CURTAIN WALL (*,#)
   LIGHT-GAGE FRAMING (*,^)
   CONCRETE MASONRY (MATERIAL AND REBAR PLACEMENT PLANS)
   SLAB CONTRACTION JOINT LAYOUT

   ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP. ITEMS MARKED (^) SHALL HAVE SEALED STRUCTURAL CALCULATIONS SUBMITTED TO ENGINEER FOR OWNER'S RECORD.
2. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
3. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.
4. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
5. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
6. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.

SPECIAL INSPECTION

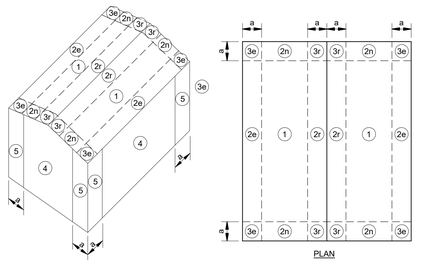
1. ALL ASPECTS OF WORK RELATING TO SPECIAL INSPECTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   2021 INTERNATIONAL BUILDING CODE (CHAPTER 17).
2. THE OWNER'S SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE ARCHITECT (OR ENGINEER) SHALL CALL A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
4. DUTIES OF THE OWNER'S SPECIAL INSPECTOR INCLUDE (BUT ARE NOT LIMITED TO):
   A. ACKNOWLEDGE THE SPECIAL INSPECTION AND TESTING AGREEMENT PROVIDED BY THE LOCAL JURISDICTION.
   B. THE OWNER'S SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND TO THE BUILDING OFFICIAL.
   C. THE OWNER'S SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, CONTRACTOR AND (OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
   D. THE OWNER'S SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
5. DUTIES OF THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):
   A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.
   B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
   C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED CONSTRUCTION DOCUMENTS AT JOBSITE.
   D. MAINTAIN AT THE JOBSITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.
6. CONTINUOUS SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
7. PERIODIC SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
8. SPECIAL INSPECTIONS AND TESTING SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK LISTED BELOW. SPECIAL INSPECTIONS AND TESTING SHALL FOLLOW THE REQUIREMENTS OF THE BUILDING AND MATERIAL CODE REFERENCES AND TABLES. IN THE EVENT OF A CONFLICT BETWEEN REFERENCES, THE OWNER'S SPECIAL INSPECTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENT.

SOILS	IBC 1705.6 AND TABLE 1705.6, APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CAST-IN-PLACE DEEP FOUNDATIONS	IBC 1705.8 AND TABLE 1705.8 APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CONCRETE	IBC 1705.3 AND TABLE 1705.3
STEEL	IBC 1705.2 AND TABLE 1705.2.3 AND AISC 360 CHAPTER N AND SDI QA/QC DOCUMENT
SHOP FABRICATION	IBC 1704.2.5 (NOT REQUIRED IF FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC 1704.2.5.1.
MASONRY	IBC 1705.4, TMS 402/ACI 530/ASCE 5 SECTION 3.1 AND TABLE 3.1.2, TMS 602/ACI 530.1/ASCE 6 SECTION 1.6 AND TABLE 4
SPRAYED FIRE-RESISTANT MATERIALS	IBC 1705.14 AND CONSTRUCTION DOCUMENTS
EXPANSION/EPOXY ANCHORS	MANUFACTURER'S ICC REPORT

ROOF PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
1	+33,-77	+31,-77	+28,-51	+26,-32	+26,-32	+26,-32
2n	+33,-107	+31,-94	+28,-77	+26,-64	+26,-47	+26,-47
2r	+33,-107	+31,-94	+28,-77	+26,-64	+26,-47	+26,-47
2e	+33,-77	+31,-77	+28,-51	+26,-32	+26,-32	+26,-32
3r	+33,-126	+31,-109	+28,-87	+26,-71	+26,-71	+26,-71
3e	+33,-107	+31,-94	+28,-77	+26,-64	+26,-47	+26,-47

WALL PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
4	+44,-47	+42,-45	+41,-43	+39,-42	+36,-38	+36,-38
5	+44,-55	+42,-52	+41,-48	+39,-45	+36,-38	+36,-38



GABLE ROOF

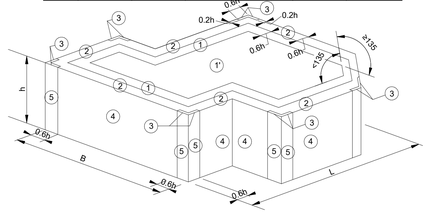
NOTES:
1. (0-10 SQ. FT.) EXAMPLE DENOTES EFFECTIVE WIND AREA.
2. + AND - SIGNS SIGNIFY PRESSURES ACTING TOWARD OR AWAY FROM THE SURFACES, RESPECTIVELY. ALL VALUES SHOWN ARE IN PSF.
3. WIND PRESSURE FOR EFFECTIVE WIND AREAS BETWEEN THE SPECIFIED RANGES MAY BE DETERMINED BY INTERPOLATION, OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
4. a = WIDTH OF EDGE STRIP EQUAL TO 10% OF THE LEAST HORIZONTAL DIMENSION (L or B) or 40% OF THE ROOF HEIGHT (h), WHICHEVER IS SMALLER, BUT NOT LESS THAN 4% OF THE LEAST HORIZONTAL DIMENSION OR 3 FT.
5. ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQ. FEET MAY BE DESIGNED USING MWFRS PROVISIONS.
6. VALUES SHOWN ARE BASED ON IBC 2021 / ASCE 7-22 WIND CALCULATIONS FOR COMPONENTS AND CLADDING AND ARE ULTIMATE VALUES (LRFD). VALUES SHOWN ARE FOR USE IN ASCE 7-10 LOAD COMBINATIONS SHOWN IN SECTION 2.32 (1.0W).
7. THE BUILDING LAYOUT SHOWN IS INTENDED TO BE SCHEMATIC, APPLY WIND PRESSURE PROVIDED SIMILARLY TO THE BUILDING(S) AT THIS PROJECT.
8. UNLESS OTHERWISE SPECIFIED, ROOF DEAD LOAD TO BE USED FOR NET UPLIFT CALCULATIONS SHALL NOT EXCEED 8 PSF. NET UPLIFT PRESSURE SHALL NOT BE LESS THAN 16 PSF.

COMPONENTS & CLADDING PRESSURES

ROOF PRESSURE (GROSS)						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
1'	+13,-30	+12,-30	+11,-30	+10,-30	+10,-20	+10,-16
1	+13,-52	+12,-48	+11,-40	+10,-40	+10,-32	+10,-32
2	+13,-68	+12,-64	+11,-58	+10,-53	+10,-43	+10,-43
3	+13,-93	+12,-84	+11,-72	+10,-64	+10,-43	+10,-43

WALL PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
4	+30,-32	+28,-31	+27,-29	+25,-28	+22,-25	+22,-25
5	+30,-39	+28,-37	+27,-33	+25,-31	+22,-25	+22,-25

ROOF OVERHANG PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
1	-47	-46	-45	-44	-27	-27
2	-63	-57	-49	-44	-30	-30
3	-88	-77	-64	-54	-30	-30



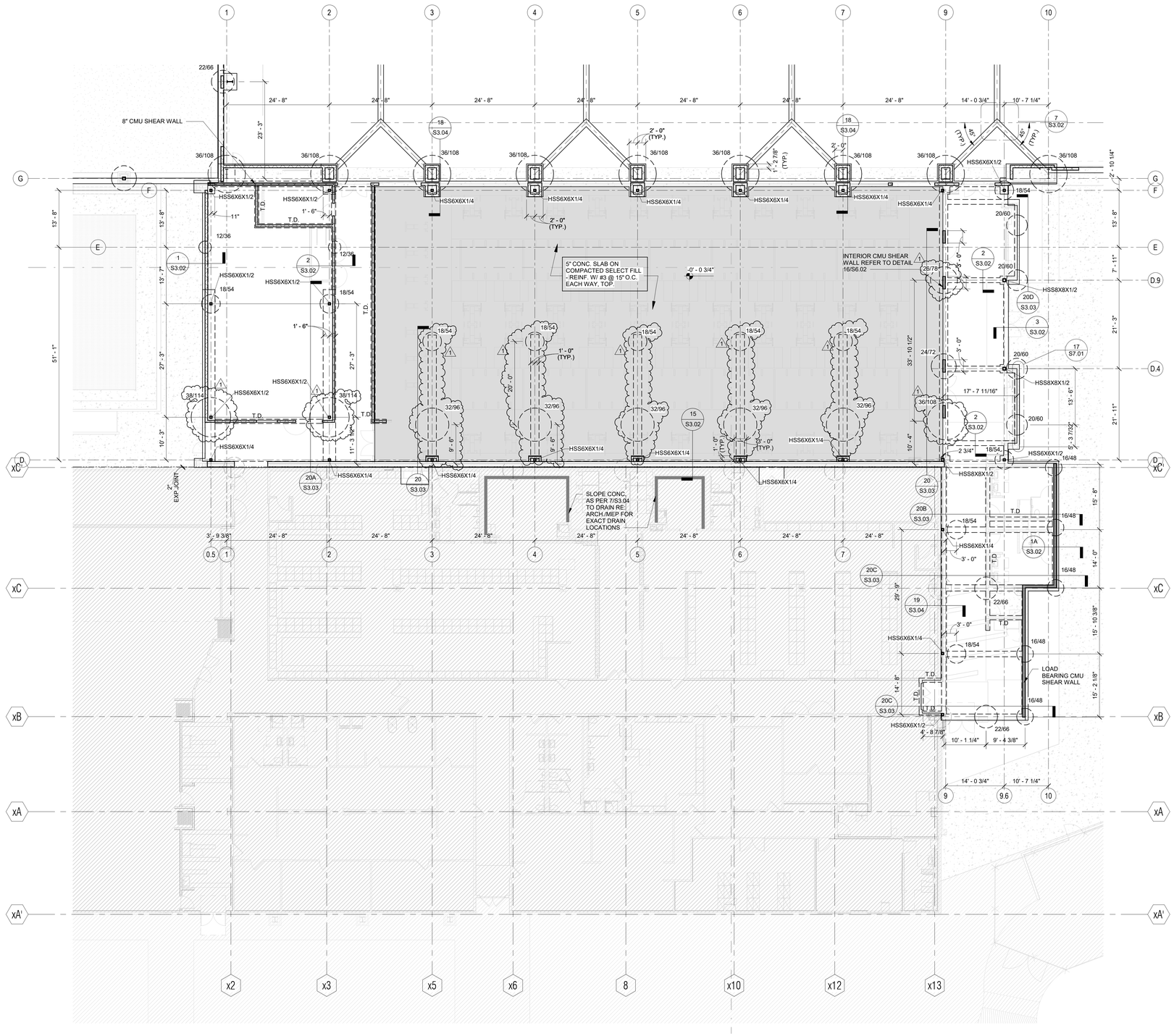
NOTES:
1. (0-10 SQ. FT.) EXAMPLE DENOTES EFFECTIVE WIND AREA.
2. + AND - SIGNS SIGNIFY PRESSURES ACTING TOWARD OR AWAY FROM THE SURFACES, RESPECTIVELY. ALL VALUES SHOWN ARE IN PSF.
3. WIND PRESSURE FOR EFFECTIVE WIND AREAS BETWEEN THE SPECIFIED RANGES MAY BE DETERMINED BY INTERPOLATION, OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
4. h = EAVE HEIGHT.
5. ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQ. FEET MAY BE DESIGNED USING MWFRS PROVISIONS.
6. VALUES SHOWN ARE BASED ON IBC 2021 / ASCE 7-22 WIND CALCULATIONS FOR COMPONENTS AND CLADDING AND ARE ULTIMATE VALUES (LRFD). VALUES SHOWN ARE FOR USE IN ASCE 7-16 LOAD COMBINATIONS SHOWN IN SECTION 2.3.1 (1.0W).
7. THE BUILDING LAYOUT SHOWN IS INTENDED TO BE SCHEMATIC, APPLY WIND PRESSURE PROVIDED SIMILARLY TO THE BUILDING(S) AT THIS PROJECT.
8. UNLESS OTHERWISE SPECIFIED, ROOF DEAD LOAD TO BE USED FOR NET UPLIFT CALCULATIONS SHALL NOT EXCEED 10 PSF. NET UPLIFT PRESSURE SHALL NOT BE LESS THAN 16 PSF.
9. ROOF ZONE 1' = INTERIOR
   ROOF ZONE 1 = FIELD
   ROOF ZONE 2 = PERIMETER
   ROOF ZONE 3 = CORNER

COMPONENTS & CLADDING PRESSURES

ABBREVIATIONS

ABBR.	ABBREVIATION
A.F.F.	ABOVE FINISH FLOOR
ADDN'L	ADDITIONAL
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
ANCH.	ANCHOR
A.B.	ANCHOR BOLT
A.R.	ANCHOR ROD
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT(URAL)
BM.	BEAM
BRG.	BEARING
BTW	BETWEEN
BOT.	BOTTOM
B.F.B.	BOTTOM FLANGE BRACE
B.O.	BOTTOM OF
BRDG.	BRIDGING
BLDG	BUILDING
C	CAMBER
CANT.	CANTILEVER
C.I.P.	CAST IN PLACE
C/C	CENTER TO CENTER
CL	CENTERLINE
CH	CHANNEL
CLR.	CLEAR(ANCE)
CFMF	COLD FORMED METAL FRAMING
COL.	COLUMN
CJP	COMPLETE JOINT PENETRATION
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONST.	CONSTRUCTION
C.J.	CONSTRUCTION / CONTRACTION JOINT
CONT.	CONTINUOUS
COORD.	COORDINATE
DL	DEAD LOAD
DBA	DEFORM BAR ANCHOR
D	DEPTH
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
DWL.	DOWEL
D.N.	DOWN
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
ENGR.	ENGINEER
EOR	ENGINEER OF RECORD
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
f'c=	28 DAY CONCRETE STRENGTH
FAB.	FABRICATE
F.S.	FAR SIDE
FIN	FINISH/FINISHED
FLR	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
Fy=	YIELD STRENGTH
GALV.	GALVANIZED
GA.	GAUGE
GEN	GENERAL
G.C.	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GR.	GRADE/GRADING
HGR.	HANGER
HSA.	HEADED STUD ANCHOR
HI	HIGH
HSS	HOLLOW STRUCTURAL SECTION
HORIZ. OR (H)	HORIZONTAL
H	HORIZONTAL REACTION
IN	INCH
INFO.	INFORMATION
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
INT.	INTERIOR
JT.	JOINT
JST.	JOIST
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
Ld	DEVELOPMENT LENGTH
LWC	LIGHTWEIGHT CONCRETE
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLV	LONG LEG VERTICAL
LLH	LONG LGE HORIZONTAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LONG	LONGITUDINAL
LO	LOW
LBS	POUNDS
MFR. / MNFR.	MANUFACTURER
MAS.	MASONRY
MAX.	MAXIMUM

MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M	MOMENT
M.C.	MOMENT CONNECTION
N.S.	NEAR SIDE
NWC	NORMAL WEIGHT CONCRETE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER(S)
OPNG.	OPENING
OPP.	OPPOSITE
OPH.	OPPOSITE HAND
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OA	OVERALL
O.H.	OVERHEAD
OVS.	OVERSIZED HOLE
P	AXIAL LOAD
P.J.	PANEL JOINT
PAR.	PARALLEL
PRKG.	PARKING
PJP	PARTIAL JOINT PENETRATION
PVMT	PAVEMENT
PVG	PAVING
PERP.	PERPENDICULAR
PL.	PLATE
PLBG	PLUMBING
PT	POST-TENSION(ED)
PCF	POUNDS PER CUBIC FOOT/FEET
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT/FEET
PSI	POUNDS PER SQUARE INCH
P/C	PRECAST CONCRETE
PRELIM.	PRELIMINARY
P.L.	PROPERTY LINE
QTY	QUANTITY
R	RADIUS, REACTION, REMAINDER
REC.	RECESSED
RE:	REFER TO
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REBAR	REINFORCING BAR
REQ'D	REQUIRED
REV.	REVISION
R.D.	ROOF DRAIN
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SLBB	SHORT LEG BACK TO BACK
SIM.	SIMILAR
SC	SLIP CRITICAL, SHEAR CONNECTOR
SPA.	SPACING
SPEC.	SPECIFICATION
SQ.	SQUARE
SF.	SQ



1 FOUNDATION PLAN - UNIT B
SCALE: 3/32" = 1'-0"

PEMB FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAM (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
6. SEE PEMB FOR BASE PLATE INFORMATION.
7. REFER TO PEMB FOR SIZE, LOCATION AND ORIENTATION OF ALL COLUMNS, ANCHOR BOLTS. NOTIFY ARCH. OF ANY DISCREPANCIES BETWEEN PLANS FOR RESOLUTION PRIOR TO FABRICATION AND INSTALLATION.
8. SEE 5/S3.01, 7/S3.01 & 10/S3.01 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.01.
10. REFER TO MEP FOR SLOPE - INVERT ELEVATION (I.E.) AT DRAINS.
11. TYPICAL SLOPE AT FLOOR IS 1/8" PER FOOT, U.N.O. ON ARCH.
12. PROVIDE (2)#4X4'-0" TOP & BOT. AT ALL RE-ENTRANT CORNERS AT SLAB ON GRADE. TOP REINFORCING SHALL BE PLACED AT 1 1/4" CLEAR FROM THE TOP OF THE SLAB.
13. ——► WHERE SHOWN ON PLAN INDICATES SLOPE DIRECTION. SEE ARCH. FOR INFORMATION.
14. ALL COLUMN LOCATIONS SHOWN AND ASSOCIATED FOUNDATIONS ARE PLACEHOLDERS IN THE ABSENCE OF A COMPLETE METAL BUILDING DESIGN SUBMITTAL. SEE GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.
15. 1" EXPNSION JOINT SHALL BE PROVIDED BETWEEN PEMB BUILDING AND THE ADJACENT STEEL BUILDING (UNIT B)
16. PEMB ENGINEER TO BRACE THE TOP OF CMU WALLS FOR ANY LATERAL LOAD

FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAMS (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
6. REF. ELEVATION = 0' - 0" CORRESPONDS TO CIVIL ELEVATION 33.50'. VERIFY WITH CIVIL.
7. SEE DETAIL 13/S3.03 FOR BASE PLATES.
8. SEE 5/S3.01, 7/S3.01 & 10/S3.01 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.01.
10. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.

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137126
LICENSED
PROFESSIONAL ENGINEER
10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10-08-2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	HR
Drawn By	RJC

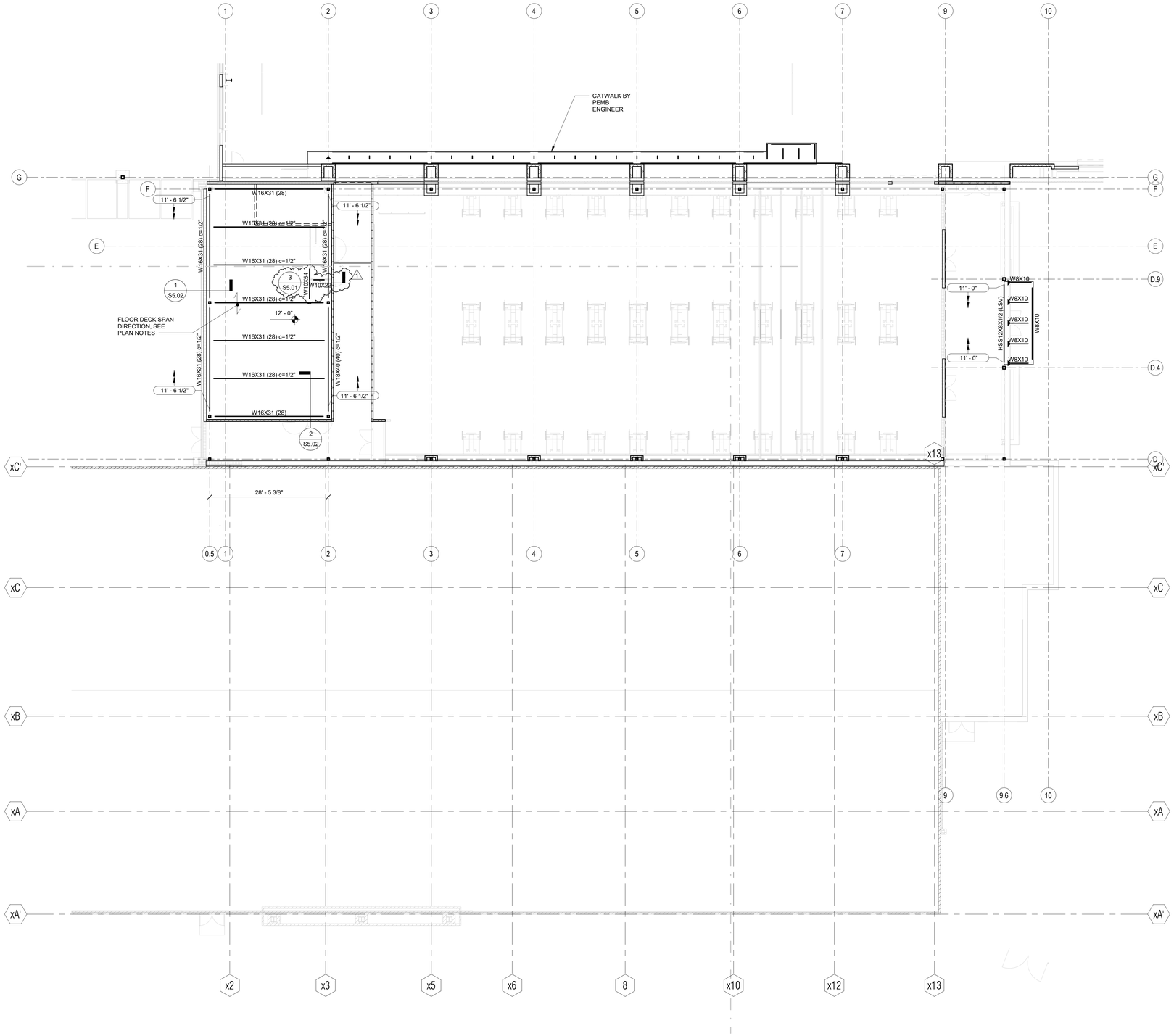
PROJECT NO.
25-0056.00

SHEET TITLE
FOUNDATION PLAN - UNIT B

SHEET NO.
S2.01B

KEY PLAN
C D B A

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1 MEZZANINE FRAMING PLAN - UNIT B
SCALE: 3/32" = 1'-0"

MEZZANINE FRAMING PLAN NOTES:

1. TOP OF CONCRETE ELEVATION = SEE PLAN
2. LOCATIONS SHOWN THUS: (12) C=3/4" INDICATES NUMBER OF SHEAR CONNECTORS AS 12 AND UPWARD CAMBER AT MID SPAN OF BEAM AS 3/4".
3. SPACE JOISTS EQUALLY U.N.O.
4. PROVIDE END PLATES AT ALL TUBE BEAMS.
5. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
6. HSS 6X6X5/8 FOR ALL COLUMN SIZES NOT SHOWN.
7. ⟵ = MOMENT CONNECTION
8. ALL LOWER TUBE BEAM ELEVATIONS TO BE VERIFIED WITH ARCHITECT DRAWINGS.
9. FLOOR SHALL BE 3 1/2" NORMAL WEIGHT CONCRETE OVER THE FLUTES OF 2" x 18 GA TYPE VLI STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT TO TOTAL THICKNESS = 5 1/2". REINFORCE CONCRETE WITH #3 AT 18" O.C. EACH WAY. PLACE REBAR PERPENDICULAR TO BEAMS (PARALLEL TO DECK) IN THE OUTSIDE LAYER. WELD DECK USING 5/8"Ø NET EFFECTIVE PUDDLE WELDS:
   a. PERPENDICULAR BEARING : 36/4 PATTERN.
   b. PARALLEL BEARING AND EDGE : AT 12" O.C.
   c. SIDE SEAMS : SEAM WELDS AT 12" O.C.
10. SEE 19/S5.01 FOR ADDITIONAL SLAB REINFORCING AT ALL BEAMS & GIRDERS.
11. SEE 13/S5.01 & 20/S5.01 FOR ADDITIONAL SLAB REINFORCING AT OPENINGS AND EDGES.
12. SEE 11/S5.01 & 15/S5.01 FOR ADDITIONAL STEEL ANGLES AND REINFORCING AT STEEL COLUMNS.
13. AT SLOPED FLOOR LOCATIONS ON ELEVATED FLOORS WHERE OVERALL SLAB THICKNESS IS LESS THAN 5 1/2", SPRAY FIREPROOFING SHALL BE APPLIED TO THE UNDERSIDE OF THE DECK IN SLOPED AREA TO MEET REQUIRED FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE RATING.

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10/08/2025
ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10-08-2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	HR
Drawn By	RJC

PROJECT NO.
25-0056.00

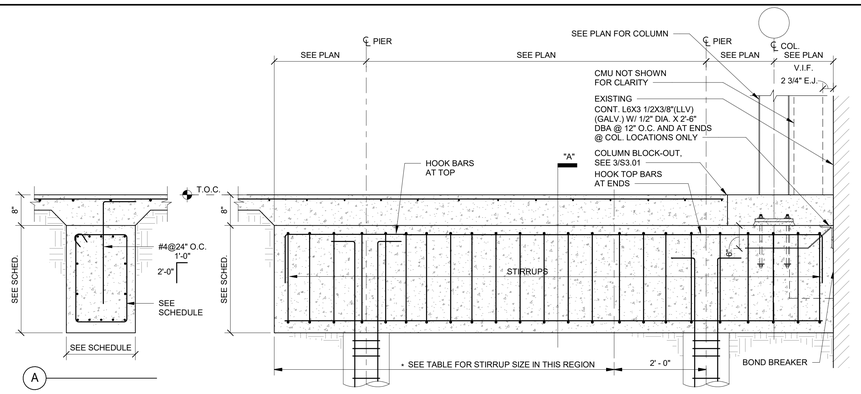
SHEET TITLE
MEZZANINE FRAMING PLAN - UNIT B

SHEET NO.
S2.11B

KEY PLAN
C D
B
A

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	GRADE BEAM SCHEDULE				
	GR. BEAM DEPTH	GR. BEAM WIDTH	TOP & BOTT. REINF.	STIRRUPS	EACH FACE REINF.
20	3' - 6"	2' - 0"	(6)-#9 (TOP) (6)-#6 (BOT)	#4 @ 12" O.C. (2 LEGS)	(4)-#4
20A	3' - 6"	3' - 0"	(8)-#9 (TOP) (6)-#6 (BOT)	#4 @ 12" O.C. (2 LEGS)	(4)-#4
20B	2' - 4"	1' - 4"	(2)-#8 (TOP & BOT)	#4 @ 12" O.C. (2 LEGS)	N.A
20C	3' - 0"	1' - 6"	(4)-#9 (TOP) (4)-#6 (BOT)	#4 @ 12" O.C. (2 LEGS)	N.A
20D	2' - 4"	1' - 6"	(3)-#9 (TOP & BOT)	#3 @ 10" O.C. (2 LEGS)	N.A

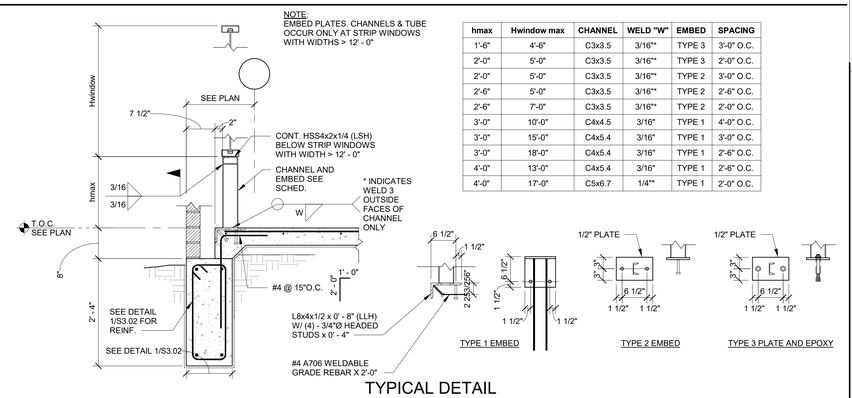


TYPICAL DETAIL CANTILEVER GRADE BEAM

20 SCALE: 3/4" = 1'-0"

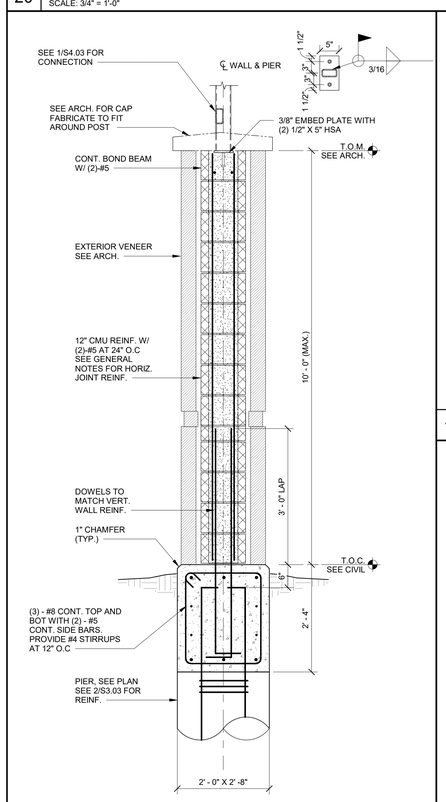
NOTE:
EMBED PLATES, CHANNELS & TUBE OCCUR ONLY AT STRIP WINDOWS WITH WIDTHS > 12' - 0"

hmax	Hwindow max	CHANNEL	WELD "W"	EMBED	SPACING
1'-6"	4'-6"	C3x3.5	3/16"*	TYPE 3	3'-0" O.C.
2'-0"	5'-0"	C3x3.5	3/16"*	TYPE 3	2'-0" O.C.
2'-0"	5'-0"	C3x3.5	3/16"*	TYPE 2	3'-0" O.C.
2'-6"	5'-0"	C3x3.5	3/16"*	TYPE 2	2'-6" O.C.
2'-6"	7'-0"	C3x3.5	3/16"*	TYPE 2	2'-0" O.C.
3'-0"	10'-0"	C4x4.5	3/16"	TYPE 1	4'-0" O.C.
3'-0"	15'-0"	C4x5.4	3/16"	TYPE 1	3'-0" O.C.
3'-0"	18'-0"	C4x5.4	3/16"	TYPE 1	2'-6" O.C.
4'-0"	13'-0"	C4x5.4	3/16"	TYPE 1	2'-6" O.C.
4'-0"	17'-0"	C5x6.7	1/4"*	TYPE 1	2'-0" O.C.



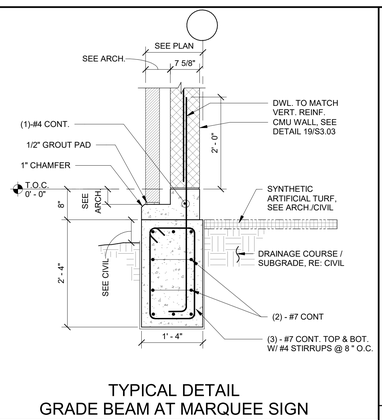
TYPICAL DETAIL
STEEL SCHEDULE AT STRIP WINDOWS

8 SCALE: 3/4" = 1'-0"



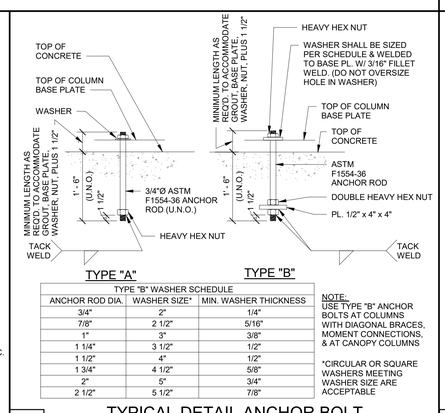
DETAIL AT MARQUEE SIGN

18 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
GRADE BEAM AT MARQUEE SIGN

15 SCALE: 3/4" = 1'-0"



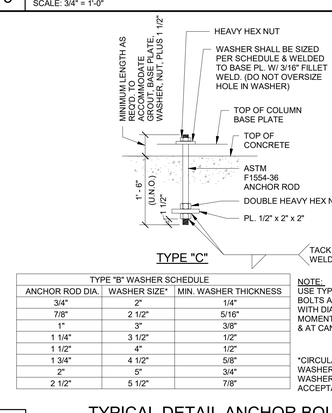
TYPE "B" WASHER SCHEDULE		
ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

NOTE:
USE TYPE "B" ANCHOR BOLTS AT COLUMNS WITH DIAGONAL BRACES, MOMENT CONNECTIONS, & AT CANOPY COLUMNS

*CIRCULAR OR SQUARE WASHERS MEETING WASHER SIZE ARE ACCEPTABLE

TYPICAL DETAIL ANCHOR BOLT

11 SCALE: N.T.S.



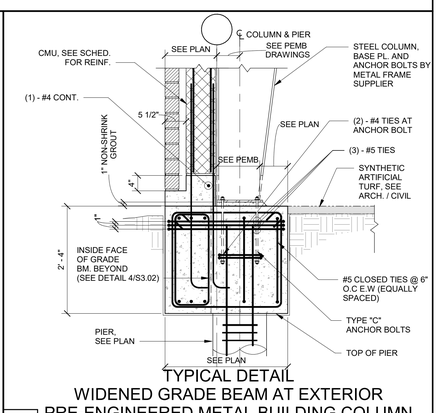
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ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

NOTE:
USE TYPE "B" ANCHOR BOLTS AT COLUMNS WITH DIAGONAL BRACES, MOMENT CONNECTIONS, & AT CANOPY COLUMNS

*CIRCULAR OR SQUARE WASHERS MEETING WASHER SIZE ARE ACCEPTABLE

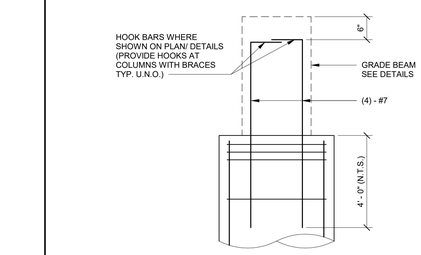
TYPICAL DETAIL ANCHOR BOLT

7 SCALE: N.T.S.



TYPICAL DETAIL
WIDENED GRADE BEAM AT EXTERIOR
PRE-ENGINEERED METAL BUILDING COLUMN

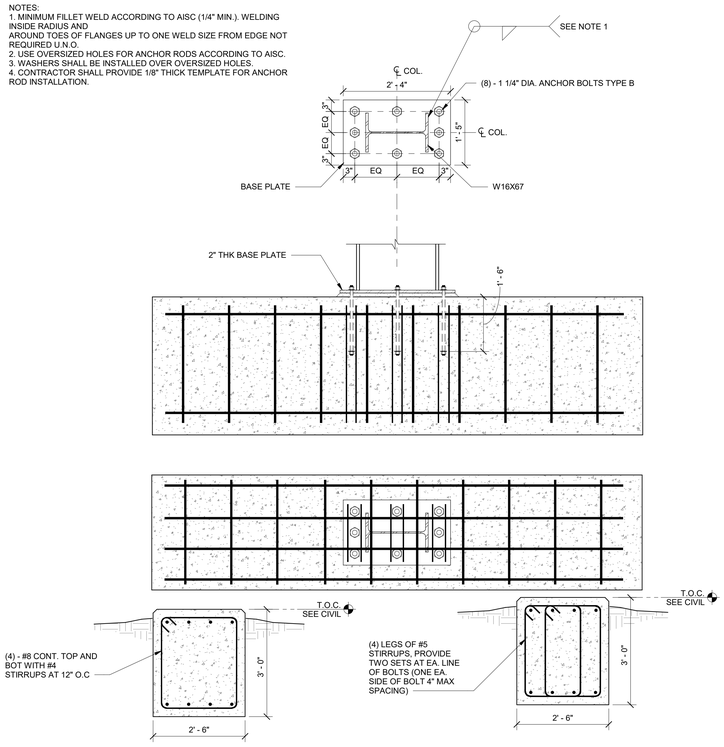
3 SCALE: 3/4" = 1'-0"



NOTES:
1. THIS DETAIL SHALL BE USED WHERE PIER REINFORCING STEEL CAN NOT BE ACCOMMODATED WITHIN WIDTH OF GRADE BEAMS.
2. SEE TYPICAL DRILLED PIER DETAIL FOR ADDITIONAL INFORMATION.

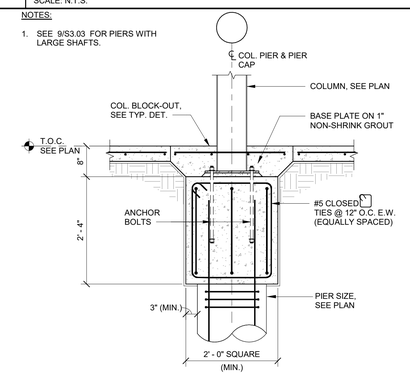
TYPICAL DETAIL
SHAFT SIZE LARGER THAN GRADE BM. WIDTH

17 SCALE: N.T.S.



GRADE BEAM AND BASE PLATE DETAIL AT MARQUEE SIGN

13 SCALE: 3/4" = 1'-0"

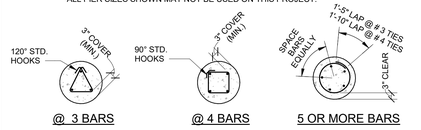


TYPICAL DETAIL
INTERIOR COLUMN WITH PIER CAP

6 SCALE: 3/4" = 1'-0"

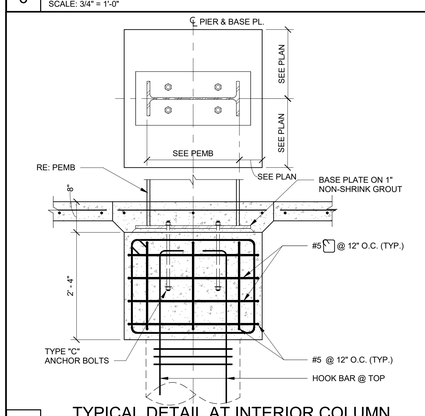
DRILLED PIER VERTICAL REINFORCEMENT SCHEDULE		
SHAFT DIAMETER (INCHES)	VERTICAL REINFORCEMENT	TIES (USE #3 @ 12" U.N.O.)
12	3 - #5	#3 @ 10"
14, 16	4 - #5	#3 @ 10"
18, 20	4 - #6	
22, 24, 26	5 - #7	
28, 30	5 - #8	
36	5 - #9	
42	7 - #9	
48	7 - #10	
54	9 - #10	
60	9 - #11	#4 @ 12"
66	11 - #11	#4 @ 12"
72	13 - #11	#4 @ 12"

*ALL PIER SIZES SHOWN MAY NOT BE USED ON THIS PROJECT.



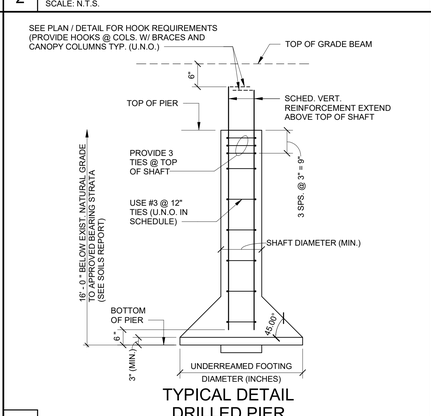
SHAFT BAR PLACEMENT PLANS

2 SCALE: N.T.S.



TYPICAL DETAIL AT INTERIOR COLUMN

5 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
DRILLED PIER

1 SCALE: N.T.S.

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10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10-08-2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	HR
Drawn By	RJC

PROJECT NO.

25-0056.00

SHEET TITLE

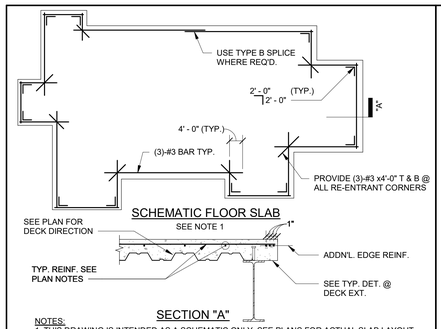
FOUNDATION DETAILS

SHEET NO.

S3.03

North Shore Multi-use Indoor Facility

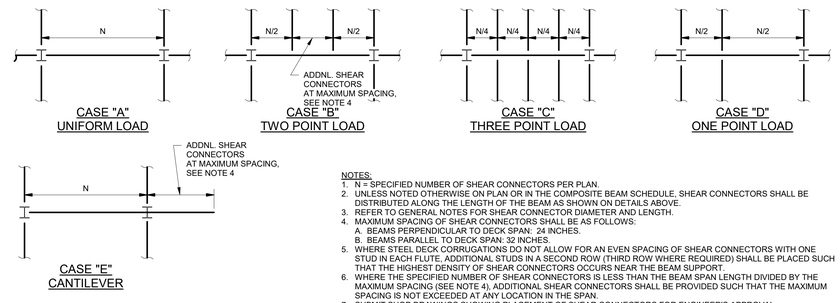
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NOTES:
1. THIS DRAWING IS INTENDED AS A SCHEMATIC ONLY. SEE PLANS FOR ACTUAL SLAB LAYOUT.
2. TYPICAL REINFORCING PARALLEL TO EDGE REINF. SHALL START 6" FROM EDGE REBAR.
3. ADDITIONAL BARS NEED ONLY BE PROVIDED AT OPENINGS LARGER THAN 4' - 0" WIDE.

TYPICAL DETAIL
REINFORCING AT SLAB EDGE

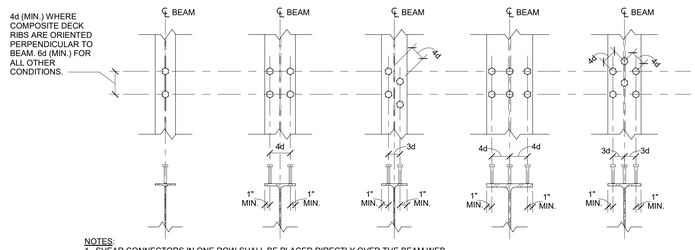
20 SCALE: N.T.S.



NOTES:
1. N = SPECIFIED NUMBER OF SHEAR CONNECTORS PER PLAN.
2. UNLESS NOTED OTHERWISE ON PLAN OR IN THE COMPOSITE BEAM SCHEDULE, SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN ON DETAILS ABOVE.
3. REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
4. MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE AS FOLLOWS:
   A. BEAMS PERPENDICULAR TO DECK SPAN: 24 INCHES.
   B. BEAMS PARALLEL TO DECK SPAN: 32 INCHES.
5. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
6. WHERE THE SPECIFIED NUMBER OF SHEAR CONNECTORS IS LESS THAN THE BEAM SPAN LENGTH DIVIDED BY THE MAXIMUM SPACING (SEE NOTE 4), ADDITIONAL SHEAR CONNECTORS SHALL BE PROVIDED SUCH THAT THE MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION IN THE SPAN.
7. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL.

TYPICAL DETAIL
SHEAR CONNECTOR PLACEMENT DIAGRAMS COMPOSITE METAL DECK

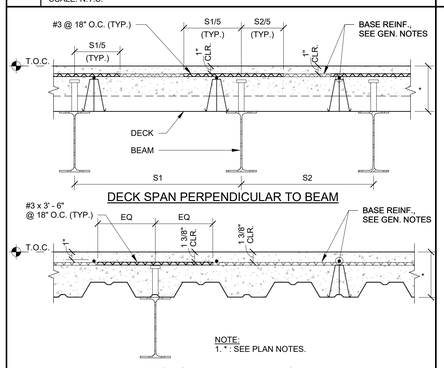
16 SCALE: N.T.S.



NOTES:
1. SHEAR CONNECTORS IN ONE ROW SHALL BE PLACED DIRECTLY OVER THE BEAM WEB.
2. PLACE STUDS IN A SINGLE ROW WHERE SPACING REQUIREMENTS PERMIT. STUDS SHALL BE PLACED IN TWO ROWS OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBER OF STUDS. SEE TYPICAL DETAIL, "SHEAR CONNECTOR PLACEMENT DIAGRAMS COMPOSITE METAL DECK".
3. PROVIDE MINIMUM 1" SPACING FROM EDGE OF FLANGE TO CENTERLINE OF STUD.
4. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL.
5. D - INDICATES STUD SHAFT DIAMETER.
6. IF THE STEEL BEAM FLANGE IS NARROW. SPACING REQUIREMENTS MAYBE MET BY STAGGERING STUDS AS SHOWN.
7. SPACINGS SHOWN ARE MINIMUM AND MAY BE EXCEEDED WHERE SPACE IS AVAILABLE. SEE TYPICAL DETAIL "SHEAR CONNECTOR PLACEMENT DIAGRAMS ON COMPOSITE METAL DECK" FOR ADDITIONAL INFO.

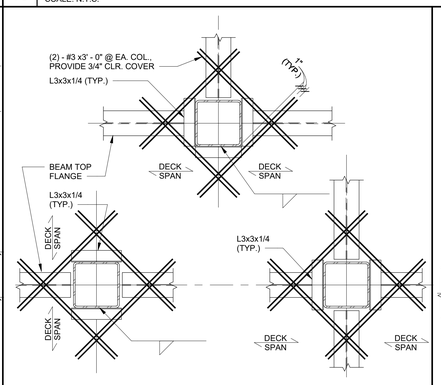
TYPICAL DETAIL
SHEAR CONNECTOR SPACING CRITERIA

8 SCALE: N.T.S.



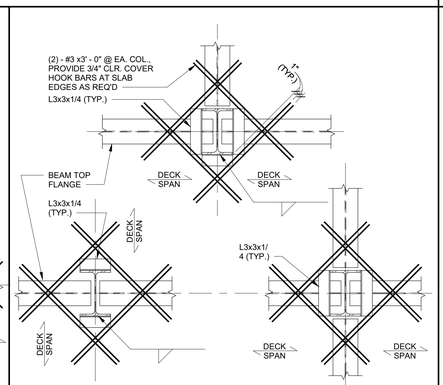
TYPICAL DETAIL
ADDITIONAL REBAR FOR CONCRETE ON STEEL DECK

19 SCALE: N.T.S.



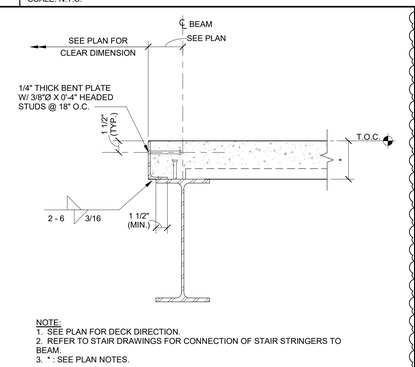
TYPICAL DETAIL
METAL DECK SUPPORT AT STEEL COLUMNS

15 SCALE: N.T.S.



TYPICAL DETAIL
METAL DECK SUPPORT AT STEEL COLUMNS

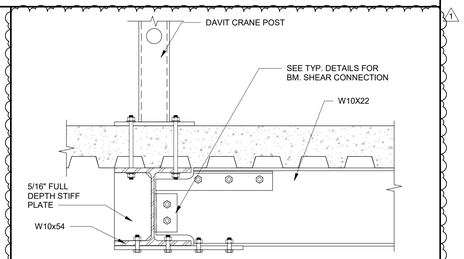
11 SCALE: N.T.S.



NOTE:
1. SEE PLAN FOR DECK DIRECTION.
2. REFER TO STAIR DRAWINGS FOR CONNECTION OF STAIR STRINGERS TO BEAM.
3. * : SEE PLAN NOTES.

TYPICAL DETAIL
STEEL STAIR FLOOR LANDING COMPOSITE METAL DECK

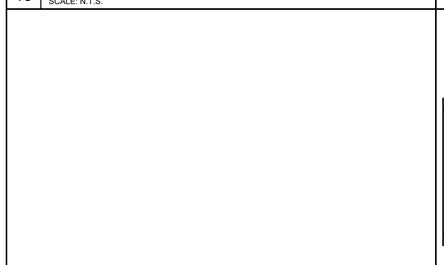
7 SCALE: N.T.S.



NOTES:
1. BOLTS IN WEB CONNECTION SHALL BE TIGHTENED PRIOR TO WELDING OF FLANGES.
2. ALL BOLTED MOMENT AND AXIAL CONNECTIONS SHALL USE SLIP CRITICAL BOLTS. ALLOWABLE STRENGTH OF BOLTS SHALL BE BASED ON A CLASS "A" FAYING SURFACE. DO NOT PAINT STEEL AT SLIP CRITICAL CONNECTIONS.
3. U.N.O. FLANGE PLATES, BOLTS, AND WELDS SHOWN SHALL BE DESIGNED FOR AN AXIAL TENSION/COMPRESSION EQUAL TO 90% OF THE BEAM PLASTIC MOMENT CAPACITY DIVIDED BY THE DISTANCE BETWEEN FLANGE CENTROIDS. T=C=0.90Mp/(D-tf) .WHERE DESIGN MOMENTS ARE PROVIDED THEY MAY BE USED IN LIEU OF THE AFOREMENTIONED CRITERIA. T=C=Mu/(D-tf)
4. BOLTS IN FLANGE SHALL BE SIZED SUCH THAT THE CROSS-SECTIONAL AREA OF THE FLANGE IS NOT REDUCED BY MORE THAN 30%, ANY VARIANCE MUST BE SUBMITTED TO E.O.R. FOR APPROVAL.

DETAIL AT DAVIT CRANE POST

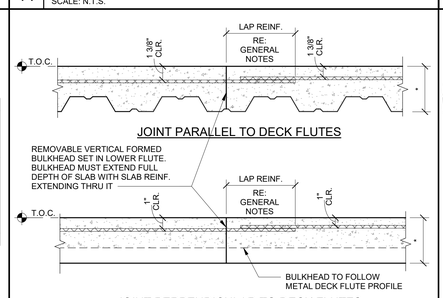
3 SCALE: 1 1/2" = 1'-0"



NOTES:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. THIS DETAIL SHOWS TYPICAL CONFIGURATIONS. VERIFY WITH STRUCTURE ENGINEER FOR SPECIAL CASES.
3. REFER TO STRUCTURAL ENGINEER FOR FRAMING IF DIMENSION "A" EXCEEDS 8'-0".
4. DECK MANUFACTURER TO PROVIDE 14 GAGE METAL EDGE CLOSURE AROUND EACH OPENING UNLESS DETAILED OTHERWISE.

TYPICAL DETAIL
FRAMED OPENINGS IN COMPOSITE METAL DECK SLAB FLOOR OR ROOF

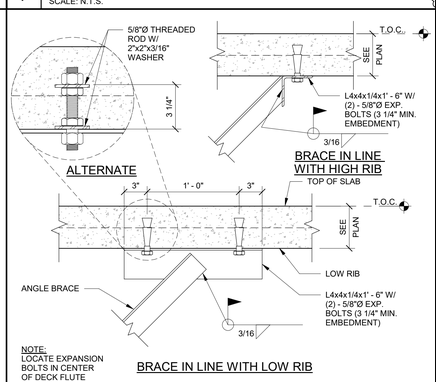
14 SCALE: N.T.S.



NOTES:
1. CONSTRUCTION JOINTS PARALLEL TO DECK FLUTES SHALL BE LOCATED NO CLOSER THAN 5' - 0" FROM THE CENTERLINE OF THE NEAREST GIRDER.
2. CONSTRUCTION JOINTS PERPENDICULAR TO DECK FLUTES SHALL BE LOCATED AT THE CENTER OF THE METAL DECK SPAN.
3. * : SEE PLAN NOTES.

TYPICAL DETAIL
CONSTRUCTION JOINT CONCRETE SLAB ON METAL DECK

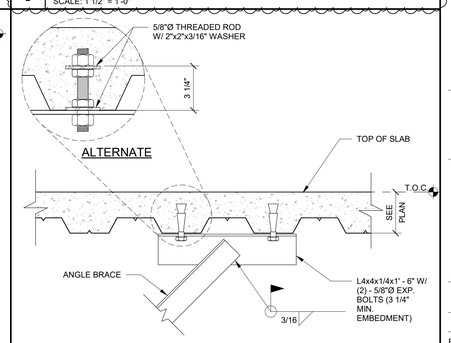
10 SCALE: N.T.S.



NOTE:
LOCATE EXPANSION BOLTS IN CENTER OF DECK FLUTE

TYPICAL DETAIL
BRACE CONNECTION TO SLAB

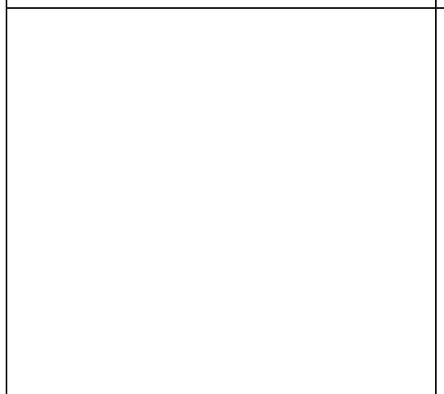
6 SCALE: N.T.S.



NOTE:
LOCATE EXPANSION BOLTS IN CENTER OF DECK FLUTE

TYPICAL DETAIL
BRACE CONNECTION TO SLAB

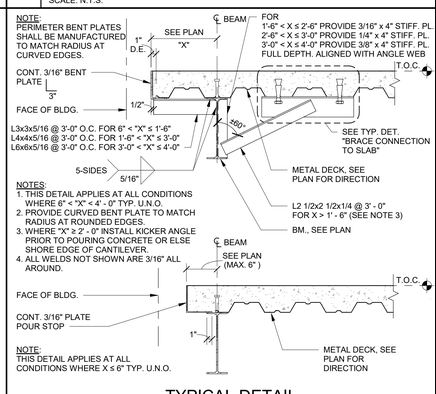
2 SCALE: N.T.S.



NOTES:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. MAXIMUM DIMENSION "A" SHALL BE 4'-0". REFER TO PLAN OR DETAIL ON DRAWINGS FOR FRAMING OF OPENINGS GREATER THAN 4' - 0".
3. WWF SLAB REINFORCEMENT SHALL BE CUT AROUND OPENING. WWF SHALL EXTEND TO WITHIN 2" OF OPENING ON ALL SIDES.
4. OPENINGS 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
5. FIELD CUT OPENINGS IN DECK AFTER CONCRETE SLAB HAS BEEN POURED AND HAS ATTAINED MINIMUM OF 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6. REINFORCEMENT PERPENDICULAR TO DECK SPAN SHALL BE PLACED ON TOP OF DECK FLUTES.
7. REINFORCEMENT PARALLEL TO DECK SPAN SHALL BE PLACED IN THE LOWER FLUTE AND SHALL BE CHAIRED TO PROVIDE 3/4" COVER.
8. THIS DETAIL SHOWS TYPICAL CONDITIONS, VERIFY REINFORCING STEEL PLACEMENT WITH ENGINEER FOR SPECIAL CASES.
9. PROVIDE REINFORCEMENT AS SHOWN FOR SQUARE, RECTANGULAR AND ROUND OPENINGS.

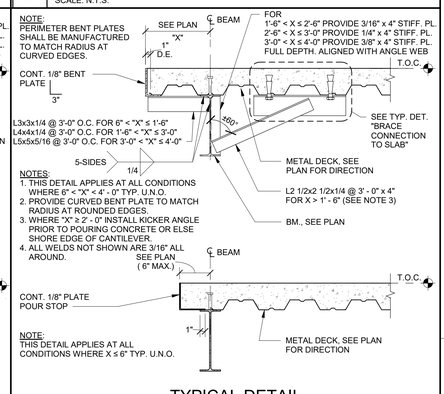
TYPICAL DETAIL
OPENINGS IN COMPOSITE METAL DECK SLAB, FLOOR OR ROOF

13 SCALE: N.T.S.



TYPICAL DETAIL
EDGE DETAIL - EXTERIOR COMPOSITE METAL DECK

5 SCALE: N.T.S.



TYPICAL DETAIL
EDGE DETAIL - INTERIOR COMPOSITE METAL DECK

1 SCALE: N.T.S.

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TBPE Firm Registration No. F-2640

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PROFESSIONAL ENGINEER

10/08/2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10-08-2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

FLOOR DETAILS

SHEET NO.

S5.01

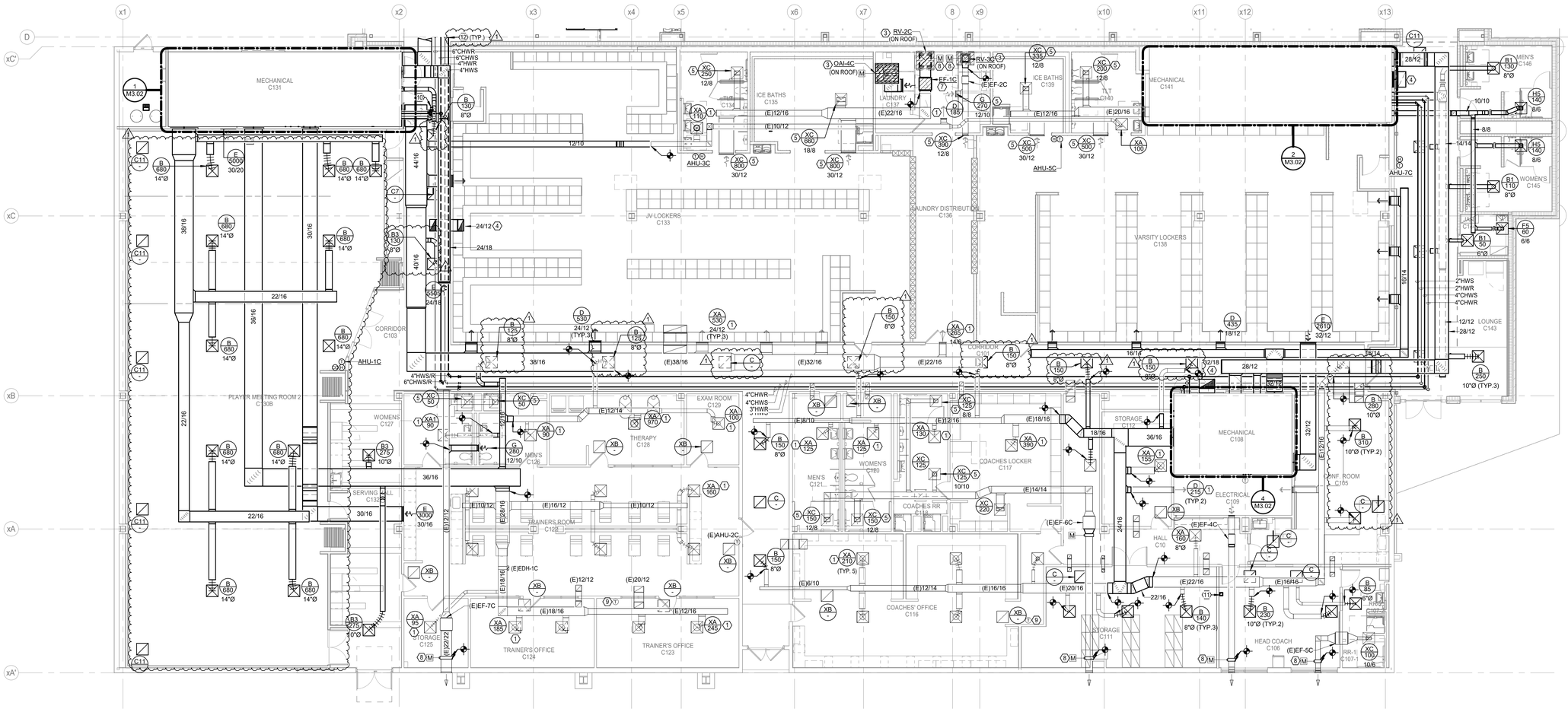
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MECHANICAL GENERAL NOTES

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 DUCT SIZES ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3	MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4	COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL KEYED NOTES

1	EXISTING SUPPLY DIFFUSER TO REMAIN. RE-BALANCE TO AIRFLOW INDICATED.
2	ROUTE COMBUSTION AIR DUCTWORK DOWN FROM INTAKE ON ROOF AVBOVE. RE: 1/M2.10 FOR CONTINUATION.
3	ROUTE EXHAUST AIR DUCT UP TO RELIEF VENT ON ROOF ABOVE. RE: 1/M2.10 FOR CONTINUATION.
4	PROVIDE ACOUSTICALLY LINED RETURN AIR TRANSFER DUCT ABOVE CEILING.
5	EXISTING EXHAUST DIFFUSER TO REMAIN. RE-BALANCE TO AIRFFLOW INDICATED.
6	RE: M2.04B FOR CONTINUATION.
7	UNIT SHALL BE SUSPENDED WITH UNISTRUT RUNNERS AND PLATFORM SECURED TO STRUCTURE WITH THREADED HANGER RODS. INSTALL PER MANUFACTURER. COORDINATE WITH ALL OTHER TRADES NOT TO OBSTRUCT.
8	PROVIDE NEW MOTORIZED DAMPER AT POINT INDICATED.
9	EXISTING THERMOSTAT TO REMAIN.
10	PROVIDE ISOLATION VALVE AT LOCATION SHOWN.
11	PROVIDE HVAC SHUTDOWN STATION, EXTERIOR LIGHTING OVERRIDE STATION, AND INTERIOR LIGHTING OVERRIDE STATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH OWNER/ARCHITEC
12	RE: 1/M2.04B FOR CONTINUATION.



N

1 MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT A

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

M.E.P. ENGINEER

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Salas O'Brien Project Number: 2550-01455-00

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PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT A

SHEET NO.

M2.03A

North Shore Multi-Use Indoor Facility

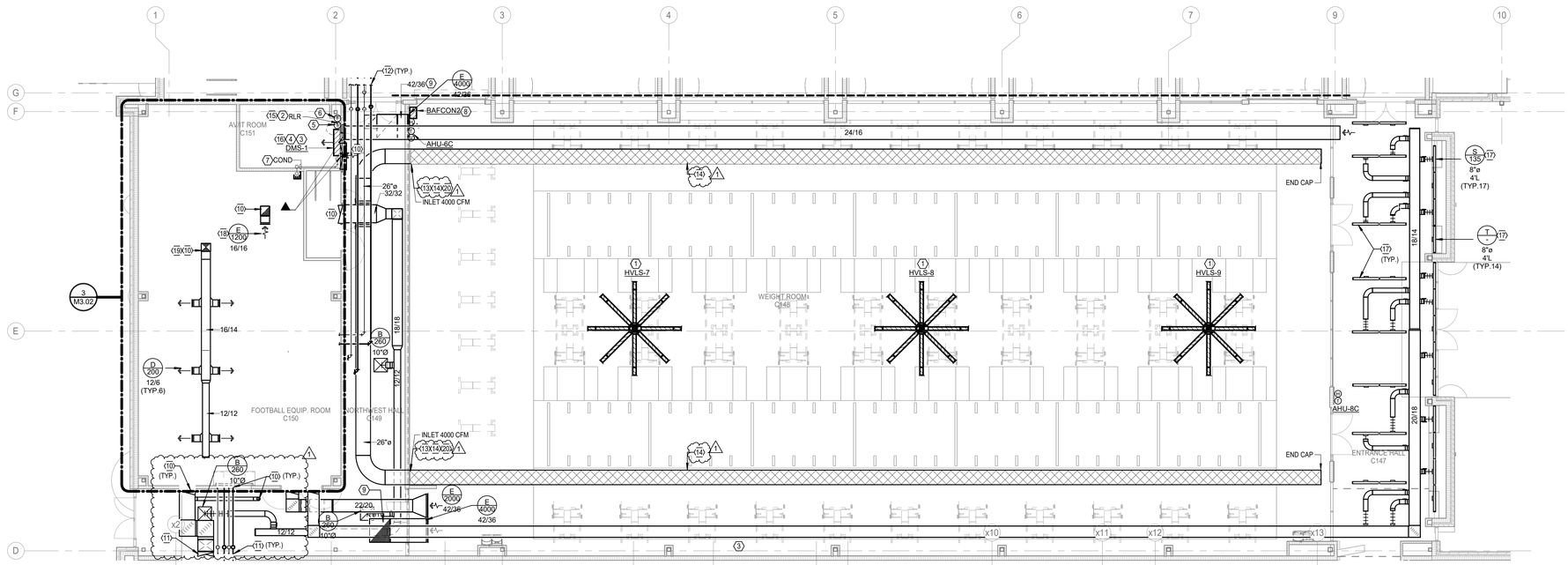
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MECHANICAL GENERAL NOTES

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2	ALL DUCT SIZES ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3	MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4	COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL KEYED NOTES

1	VERIFY SERVICE CLEARANCE AND COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. INSTALL PER MANUFACTURER GUIDLINES.
2	RE: 1/M2.10 FOR CONTINUATION.
3	VERIFY SERVICE CLEARANCE FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER.
4	COORDINATE UNIT LOCATION WITH ALL TRADES NOT TO OBSTRUCT. BOTTOM OF HIGH WALL UNIT SHALL BE MOUNTED ABOVE 7'-3" A.F.F.
5	PROVIDE HARD WIRED THERMOSTAT.
6	PROVIDE THERMOSTAT FOR BMSC MONITOR.
7	ROUTE FULL SIZE CONDENSATE DRAIN LINE AS HIGH AS POSSIBLE AND GRAVITY DRAIN TO FLOOR DRAIN AS INDICATED. INSTALL TRAP AND PIPE SIZING PER MANUFACTURER. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
8	PROVIDE LABELS ON SWITCHES AND CONTROLLERS TO ASSOCIATED EQUIPMENT.
9	PROVIDE ACOUSTICALLY LINED RETURN AIR DUCT.
10	RE: 3/M3.02 FOR CONTINUATION.
11	RE: 1/M2.03A FOR CONTINUATION.
12	RE: 1/M2.08D FOR CONTINUATION.
13	TRANSITION FROM METAL DUCTWORK TO FABRIC DUCT AS INDICATED. REFER TO FABRIC DUCT SPECIFICATIONS AND MANUFACTURER FOR MORE INFORMATION.
14	PROVIDE FABRIC DUCT AND SUSPENSION SYSTEM AS SPECIFIED. REFER TO MANUFACTURER FOR FINAL SIZE, DISTRIBUTION AND INSTALLATION REQUIREMENTS.
15	ROUTE REFRIGERANT PIPING UP TO ASSOCIATED OUTDOOR UNIT ON ROOF. SIZE LINE AND INSTALL PER MANUFACTURER RECOMMENDATIONS. PIPING SHOWN SINGLE LINE FOR CLARITY. RE: M5.02 FOR DETAILS.
16	INSULATE ALL PIPING PER SPECIFICATIONS.
17	COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.
18	ROUTE DUCTWORK FROM THE RETURN AIR GRILLE UP TO THE MEZZANINE TO CONNECT TO THE RETRUN AIR PLENUM BOX AT THE UNIT.
19	ROUTE DUCTWORK UP TO THE MEZZANINE TO CONNECT TO THE SUPPLY AIR MAIN DUCT.
20	COORDINATE FINAL DUCT ELEVATION AND FINISH COLOR WITH ARCHITECT.



N

1 **MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT B**
Scale: 1/8" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — 80219 — LICENSED — STATE OF TEXAS — PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

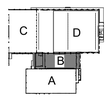
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Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT B

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M2.04B



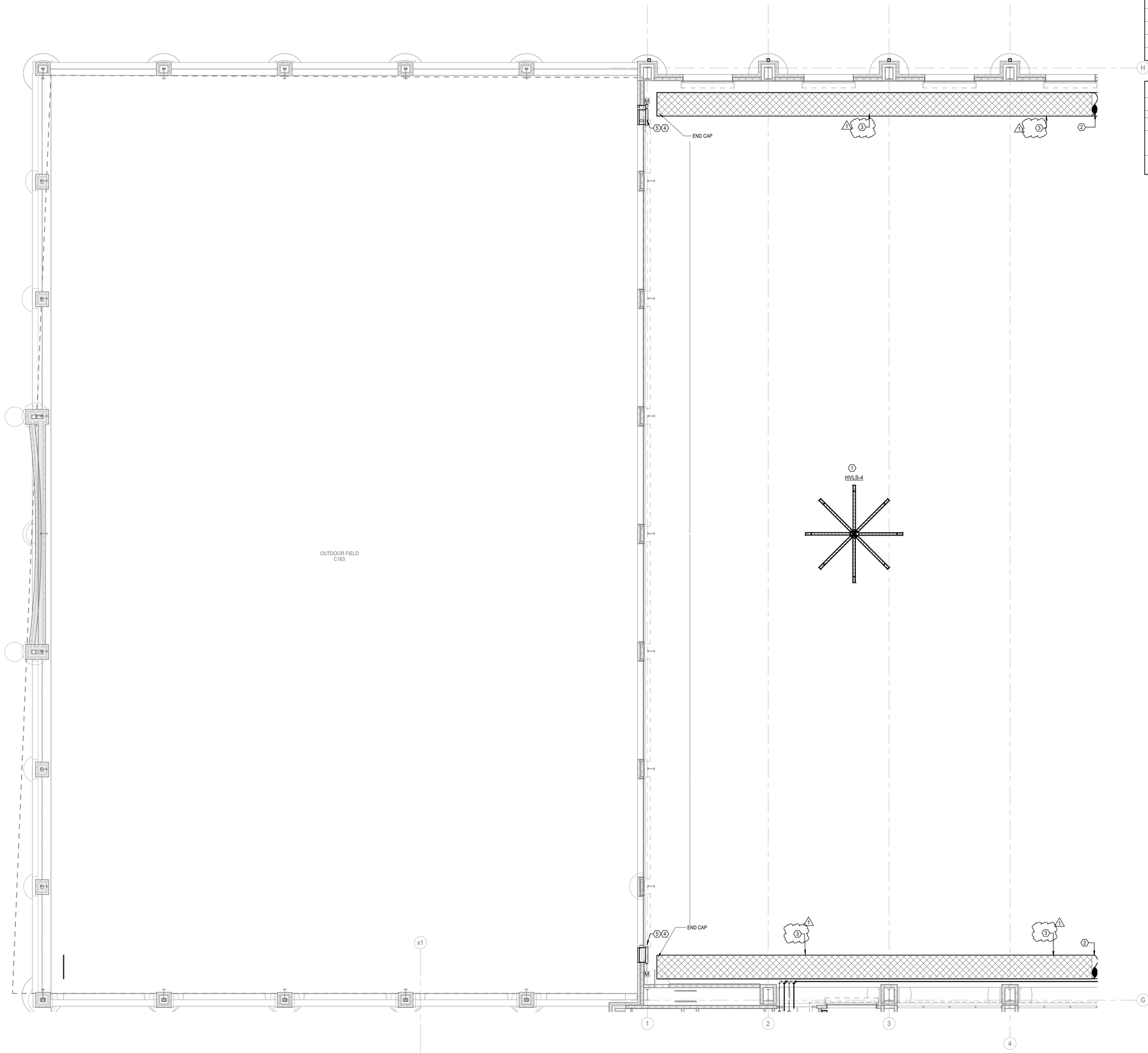
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MECHANICAL GENERAL NOTES

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2	ALL DUCT SIZES ARE INSIDE CLEAR. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3	MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4	COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

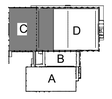
MECHANICAL KEYED NOTES

1	VERIFY SERVICE CLEARANCE AND COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. INSTALL PER MANUFACTURER GUIDLINES.
2	RE: 1/M2.08D FOR CONTINUATION.
3	PROVIDE FABRIC DUCT AND SUSPENSION SYSTEM AS SPECIFIED. REFER TO MANUFACTURER FOR FINAL SIZE, DISTRIBUTION AND INSTALLATION REQUIREMENTS.
4	PROVIDE TWO RELIEF LOUVERS STACKED IN VERTICAL, 35" W X 60"H PER LOUVER. RUSKIN MODEL HZ700 OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 7.95 SQ. FEET. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT. RE: 5/M5.03 FOR DETAIL.
5	MOTORIZED DAMPER TO BE INTERLOCKED WITH OAU-4C. INTERLOCK SHALL OPERATE AS FOLLOWS: WHEN OAU-4C IS ENERGIZED, THE DAMPER SHALL OPEN.WHEN OAU-4C IS DE-ENERGIZED, THE DAMPER SHALL CLOSE.



N

1 **MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT C**
Scale: 1/8" = 1'-0"



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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

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Revision No.		Revision Date
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Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT C

SHEET NO.
M2.06C

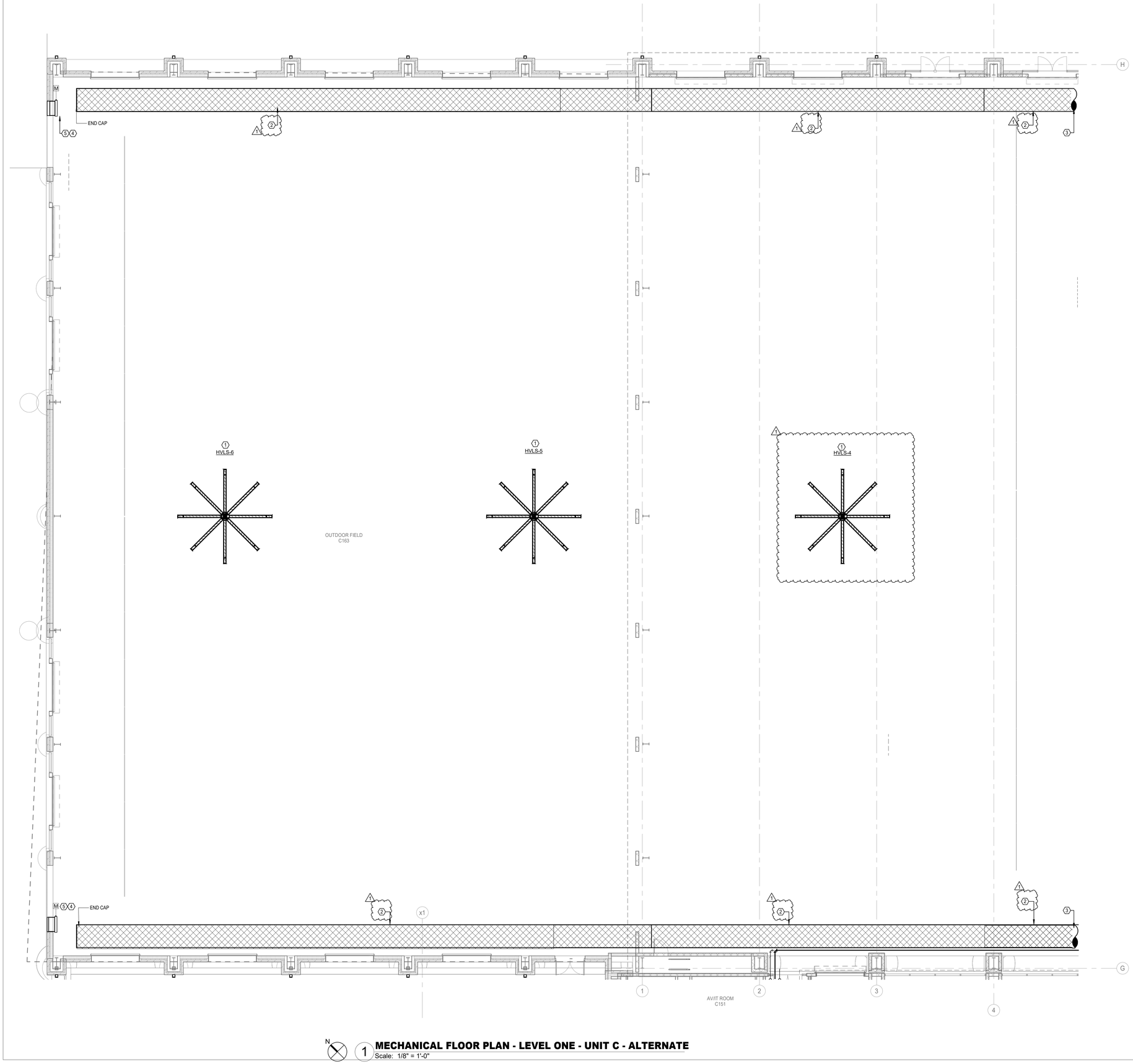
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5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

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1	VERIFY SERVICE CLEARANCE AND COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. INSTALL PER MANUFACTURER GUIDLINES.
2	PROVIDE FABRIC DUCT AND SUSPENSION SYSTEM AS SPECIFIED. REFER TO MANUFACTURER FOR FINAL SIZE, DISTRIBUTION AND INSTALLATION REQUIREMENTS.
3	RE: 1/M2.08D FOR CONTINUATION.
4	PROVIDE TWO RELIEF LOUVERS STACKED IN VERTICAL, 36" W X 60"H PER LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 7.55 SQ. FEET. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT. RE: 5/M5.03 FOR DETAIL.
5	MOTORIZED DAMPER TO BE INTERLOCKED WITH OAU-4C. INTERLOCK SHALL OPERATE AS FOLLOWS: WHEN OAU-4C IS ENERGIZED, THE DAMPER SHALL OPEN.WHEN OAU-4C IS DE-ENERGIZED, THE DAMPER SHALL CLOSE.



N

1 **MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE**
Scale: 1/8" = 1'-0"

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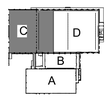
Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE

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M2.06C.1



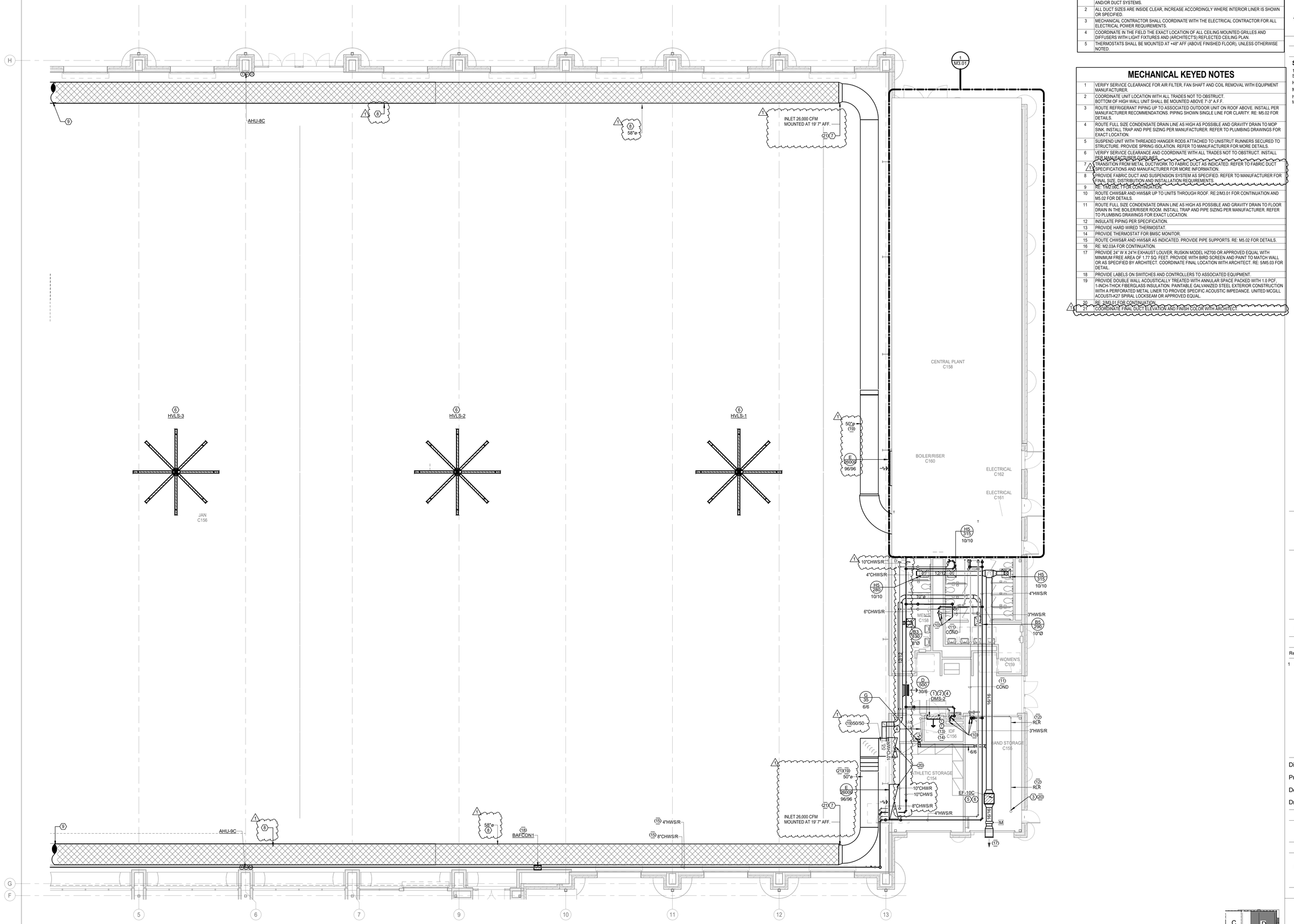
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MECHANICAL KEYED NOTES

1	VERIFY SERVICE CLEARANCE FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER.
2	COORDINATE UNIT LOCATION WITH ALL TRADES NOT TO OBSTRUCT. BOTTOM OF HIGH WALL UNIT SHALL BE MOUNTED ABOVE 7'-3" A.F.F.
3	ROUTE REFRIGERANT PIPING UP TO ASSOCIATED OUTDOOR UNIT ON ROOF ABOVE. INSTALL PER MANUFACTURER RECOMMENDATIONS. PIPING SHOWN SINGLE LINE FOR CLARITY. RE: M5.02 FOR DETAILS.
4	ROUTE FULL SIZE CONDENSATE DRAIN LINE AS HIGH AS POSSIBLE AND GRAVITY DRAIN TO MOP SINK. INSTALL TRAP AND PIPE SIZING PER MANUFACTURER. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
5	SUSPEND UNIT WITH THREADED HANGER RODS ATTACHED TO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
6	VERIFY SERVICE CLEARANCE AND COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. INSTALL PER MANUFACTURER GUIDLINES.
7	TRANSITION FROM METAL DUCTWORK TO FABRIC DUCT AS INDICATED. REFER TO FABRIC DUCT SPECIFICATIONS AND MANUFACTURER FOR MORE INFORMATION.
8	PROVIDE FABRIC DUCT AND SUSPENSION SYSTEM AS SPECIFIED. REFER TO MANUFACTURER FOR FINAL SIZE, DISTRIBUTION AND INSTALLATION REQUIREMENTS.
9	RE: 1/M2.08C-1 FOR CONTINUATION.
10	ROUTE CHWS&R AND HWS&R UP TO UNITS THROUGH ROOF. RE:2/M3.01 FOR CONTINUATION AND M5.02 FOR DETAILS.
11	ROUTE FULL SIZE CONDENSATE DRAIN LINE AS HIGH AS POSSIBLE AND GRAVITY DRAIN TO FLOOR DRAIN IN THE BOILER/RISER ROOM. INSTALL TRAP AND PIPE SIZING PER MANUFACTURER. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
12	INSULATE PIPING PER SPECIFICATION.
13	PROVIDE HARD WIRED THERMOSTAT.
14	PROVIDE THERMOSTAT FOR BMSC MONITOR.
15	ROUTE CHWS&R AND HWS&R AS INDICATED. PROVIDE PIPE SUPPORTS. RE: M5.02 FOR DETAILS.
16	RE: M2.03A FOR CONTINUATION.
17	PROVIDE 24" W X 24"H EXHAUST LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 1.77 SQ. FEET. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT. RE: 5/M5.03 FOR DETAIL.
18	PROVIDE LABELS ON SWITCHES AND CONTROLLERS TO ASSOCIATED EQUIPMENT.
19	PROVIDE DOUBLE WALL ACOUSTICALLY TREATED WITH ANNULAR SPACE PACKED WITH 1.0 PCF, 1-INCH-THICK FIBERGLASS INSULATION. PAINTABLE GALVANIZED STEEL EXTERIOR CONSTRUCTION WITH A PERFORATED METAL LINER TO PROVIDE SPECIFIC ACOUSTIC IMPEDANCE. UNITED MCGILL ACOUSTI-K27 SPIRAL LOCKSEAM OR APPROVED EQUAL.
20	RE: 2/M3.01 FOR CONTINUATION.
21	COORDINATE FINAL DUCT ELEVATION AND FINISH COLOR WITH ARCHITECT



N

1 **MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT D**
Scale: 1/8" = 1'-0"

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STATE OF TEXAS
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10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

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1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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SHEET NO.
M2.08D

C D B A

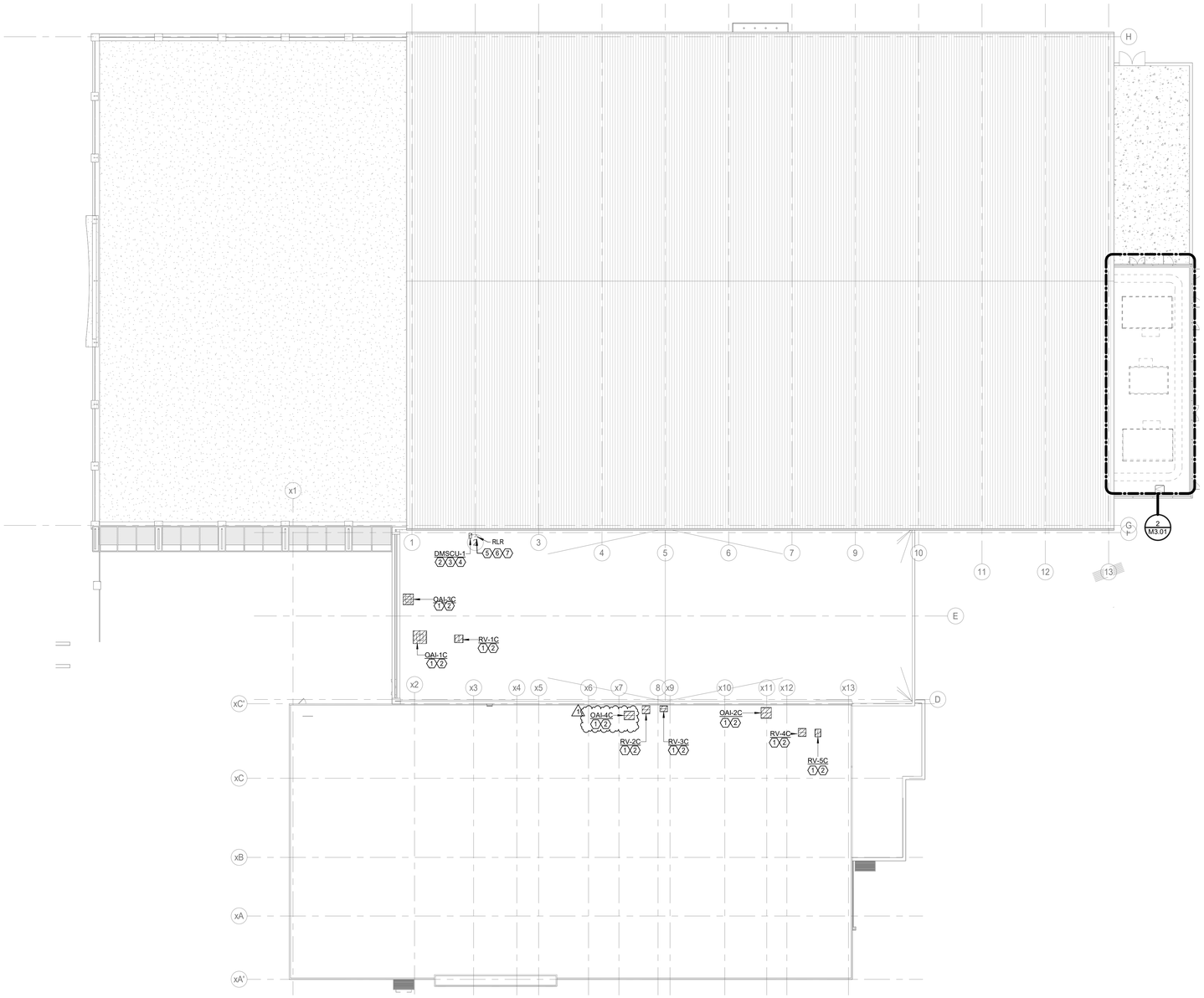
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MECHANICAL KEYED NOTES

1	ROOF MOUNTED EQUIPMENT SHALL BE MOUNTED ON ROOF CURB. RE: DETAIL 7/M5.03,TRANSITION DUCTWORK AS REQUIRED TO CONNECT TO EQUIPMENT ON ROOF.
2	VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
3	CONDENSING UNIT SHALL BE MOUNTED ON ROOF SUPPORT. RE:8/M5.03 FOR DETAIL.
4	ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO ASSOCIATED INDOOR UNIT THROUGH ROOF. PIPING SHOWN SINGLE LINE FOR CLARITY. PROVIDE PIPE SUPPORT AND INSTALL PER MANUFACTURER.RE: M5.03 FOR DETAILS.
5	INSULATE ALL PIPING PER SPECIFICATIONS.
6	RE:3/M3.02 FOR CONTINUATION.
7	PROVIDE PHP MODEL PP-10 ON ROOF WITH ROLLER AND FULLY ADJUSTABLE HEIGHT THROUGHOUT PIPE RUN EVERY 6'-0" ON CENTER AND EVERY CHANGE IN DIRECTION. RE:M5.02 FOR DETAILS.



N

1 **MECHANICAL ROOF PLAN**
Scale: 1" = 20'-0"

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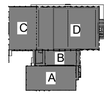
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Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

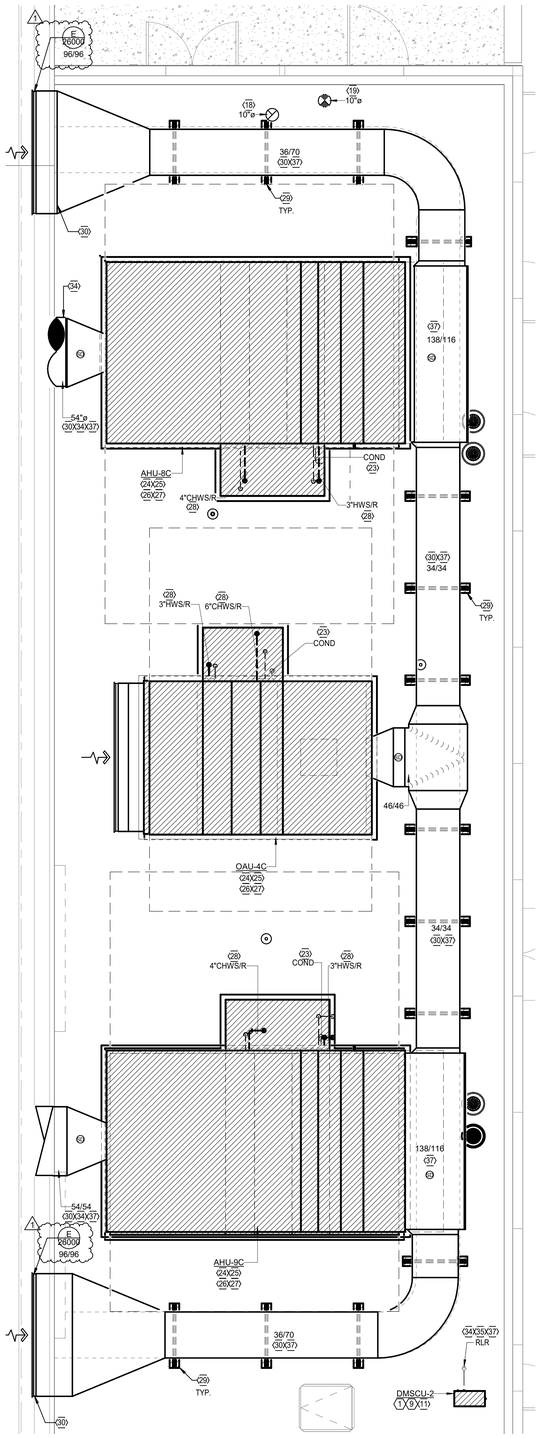
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SHEET TITLE
MECHANICAL ROOF PLAN

SHEET NO.
M2.10



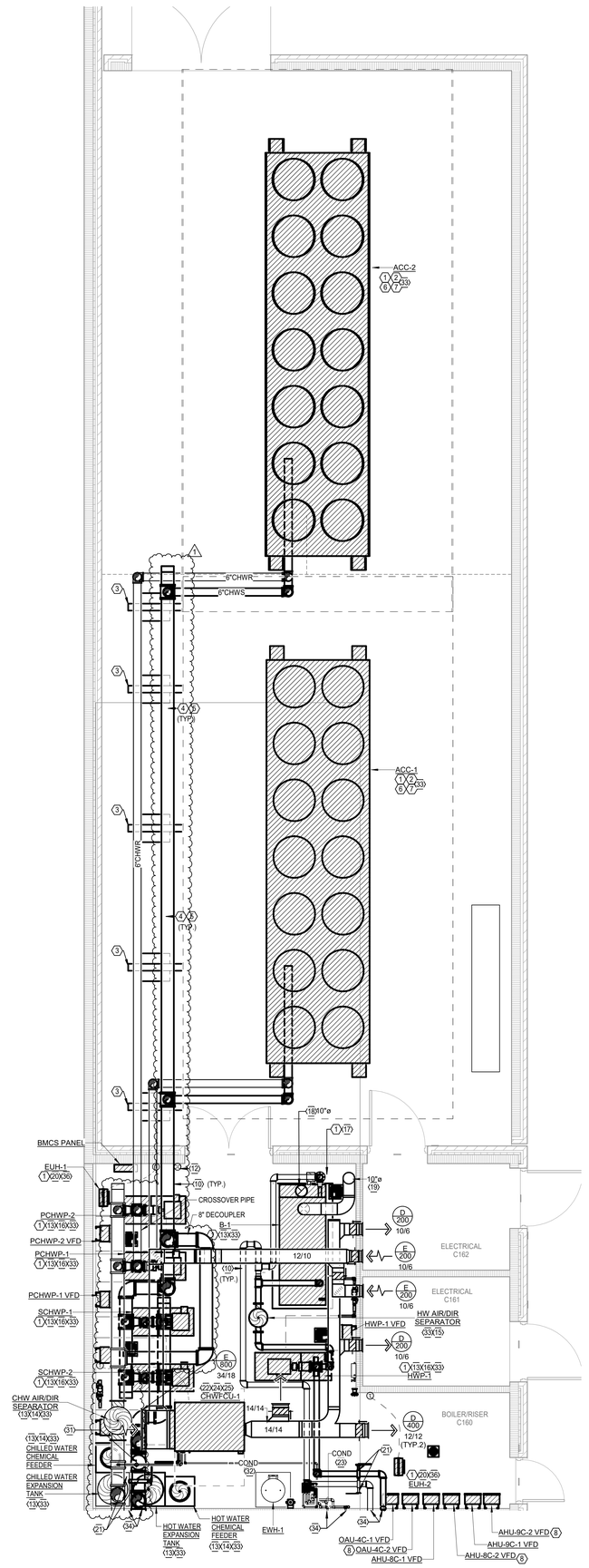
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N

2 ENLARGED MECHANICAL ROOF PLAN - AREA D

Scale: 1/4" = 1'-0"



N

1 MECHANICAL PLAN - MECHANICAL YARD / BOILER ROOM - LEVEL ONE

Scale: 1/4" = 1'-0"

13

MECHANICAL GENERAL NOTES

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5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL KEYED NOTES

1	VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2	PROVIDE TRASH SCREEN FOR CHILLER.
3	PROVIDE PIPE STAND AT LOCATION SHOWN. RE: 9/M-5.02 FOR DETAIL.
4	PAINT AND INSULATE OUTDOOR PIPING PER SPECIFICATIONS.
5	BOTTOM OF ALL PIPING IN THE CHILLER YARD TO BE MINIMUM 11'-6" ABOVE GRADE.
6	PROVIDE 12W"X24H" CONCRETE RUNNER TO SPAN LENGTH OF AIR-COOLED CHILLERS. TYPICAL (2) PER CHILLER. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7	REFER TO M4.01 FOR MORE INFORMATION.
8	PROVIDE REDUNDANT VFD IN CASE #1 VFD FAILS.
9	CONDENSING UNIT SHALL BE MOUNTED ON ROOF SUPPORT. RE:8/M5.03 FOR DETAIL.
10	PROVIDE PIPE SUPPORT. RE:M5.02 FOR DETAILS.
11	ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO ASSOCIATED INDOOR UNIT THROUGH ROOF. PIPING SHOWN SINGLE LINE FOR CLARITY. PROVIDE PIPE SUPPORT AND INSTALL PER MANUFACTURER.RE: M5.03 FOR DETAILS.
12	PROVIDE NEW CARBON MONOXIDE MONITOR SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
13	PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
14	RE:1/M5.02 FOR CHEMICAL FEEDER SUPPORT DETAIL.
15	RE:2/M5.02 FOR AIR DIRT SEPARATOR SUPPORT DETAIL.
16	PROVIDE END SUCTION PUMP. RE:3/M5.02 FOR DETAIL.
17	INSTALL BOILER CIRCULATOR PUMP PROVIDED BY BOILER MANUFACTURER.
18	PROVIDE DOUBLE WALL BOILER FLUE UP THROUGH ROOF TO STAINLESS STEEL STACK CAP. PROVIDE CAT IV (SCHEBLER E-VENT) STACK SYSTEM CONSISTING OF AL-29-4C INNER LINER RATED FOR POSITIVE PRESSURE AND FLUE CONDENSATION. VERIFY FLUE DUCT SIZE WITH MANUFACTURER. RE: 7/M5.02 FOR DETAIL.
19	PROVIDE COMBUSTION AIR INTAKE. ROUTE THROUGH ROOF. VERIFY AIR INTAKE DUCT SIZE WITH MANUFACTURER. RE: 8/M5.02 FOR DETAIL.
20	UNIT SHALL ENERGIZE WHEN TEMPERATURE DROPS BELOW 40°F
21	PROVIDE ISOLATION VALVE AT LOCATION SHOWN.
22	UNIT SHALL BE SUSPENDED WITH UNISTRUT RUNNERS AND PLATFORM SECURED TO STRUCTURE WITH THREADED HANGER RODS. INSTALL PER MANUFACTURER. COORDINATE WITH ALL OTHER TRADES NOT TO OBSTRUCT.
23	ROUTE CONDENSATE DRAIN PIPE DOWN THROUGH ROOF ABOVE 1ST FLOOR CEILING, SIZE PER MANUFACTURER. TO FLOOR SINK IN THE BOILER ROOM. SLOPE PIPING TO ALLOW FOR GRAVITY DRAINAGE. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER. REFER TO PLUMBING PLANS FOR EXACT LOCATION OF FLOOR SINK.
24	VERIFY SERVICE CLEARANCE FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
25	PROVIDE SHEET METAL PLENUM, FULL SIZE OF RETURN AIR OPENING; LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS SHOWN.
26	PROVIDE DUCT MOUNTED SMOKE DETECTOR. REFER TO LOCAL CODES FOR MORE INFORMATION.
27	ROOF MOUNTED EQUIPMENT SHALL BE MOUNTED ON ROOF CURB. RE: DETAIL 7/M5.03.TRANSITION DUCTWORK AS REQUIRED TO CONNECT TO EQUIPMENT ON ROOF.
28	ROUTE FULL SIZE CHILLED AND HOT WATER PIPING DOWN TO FIRST FLOOR ABOVE CEILING TO CONNECT TO MAIN CHILLED AND HOT WATER PIPING. RE: M5.02 FOR DETAILS AND 1/M2.08D FOR CONTINUATION.
29	PROVIDE MODEL PHP-D DUCT SUPPORT FOR HIGH WIND APPLICATION. PROVIDE THREADED RODS AND ADHESIVE ANCHORS, WITH ROD EMBEDDED AT LEAST 1-3/4 INCHES (44 MM) INTO CONCRETE. REFER TO MANUFACTURER INSTALLATION INSTRUCTION FOR ADDITIONAL INFORMATION.
30	TRANSITION DUCTWORK AS REQUIRED TO CONNECT TO EQUIPMENT ON ROOF.
31	PROVIDE PRESSURE REDUCING VALVE ON CHILLED WATER RETURN PIPE SIDE.
32	ROUTE CONDENSATE DRAIN PIPE. SIZE AS INDICATED. TO FLOOR SINK. SLOPE PIPING TO ALLOW FOR GRAVITY DRAINAGE.INSTALL TRAP AS RECOMMENDED BY MANUFACTURER. REFER TO PLUMBING PLANS FOR EXACT LOCATION OF FLOOR SINK.
33	REFER TO PIPING DIAGRAM SHEET (M4.01) FOR PIPE SIZES.
34	RE: 1/M2.08D FOR CONTINUATION.
35	PROVIDE PHP MODEL PP-10 ON ROOF WITH ROLLER AND FULLY ADJUSTABLE HEIGHT THROUGHOUT PIPE RUN EVERY 6'-0" ON CENTER AND EVERY CHANGE IN DIRECTION. RE:M5.02 FOR DETAILS.
36	INSTALL PER MANUFACTURER'S GUIDELINES.
37	INSULATE PER SPECIFICATION.

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

MECHANICAL ENLARGED PLAN

SHEET NO.

M3.01

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SYMBOL LEGEND	
⌖	POINT OF CONNECTION TO EXISTING
	ITEM TO REMAIN
[ ]	ITEM TO BE REMOVED

MECHANICAL GENERAL NOTES

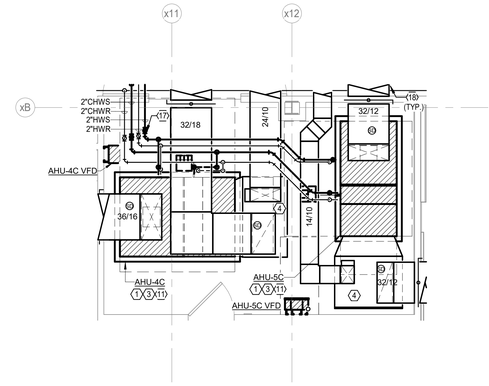
1	THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
2	ALL DUCT SIZES ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3	MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4	COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL DEMOLITION GENERAL NOTES

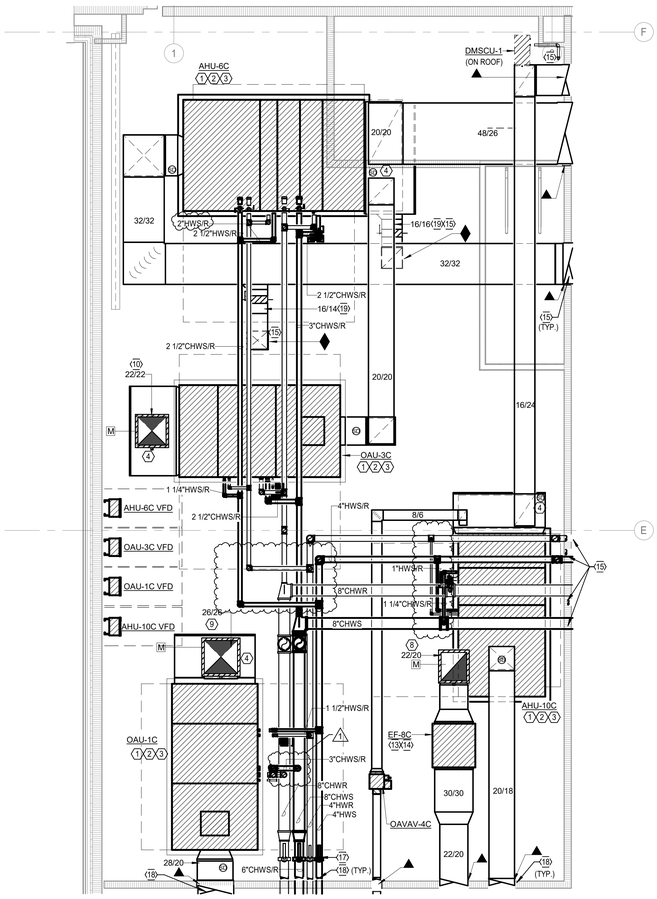
1	THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
2	ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS REPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.
3	OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL HVAC EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT NOT LIMITED TO EVAPORATIVE FLUID COOLER, PIPE STANDS, VALVES, AND BOILERS.

MECHANICAL KEYED NOTES

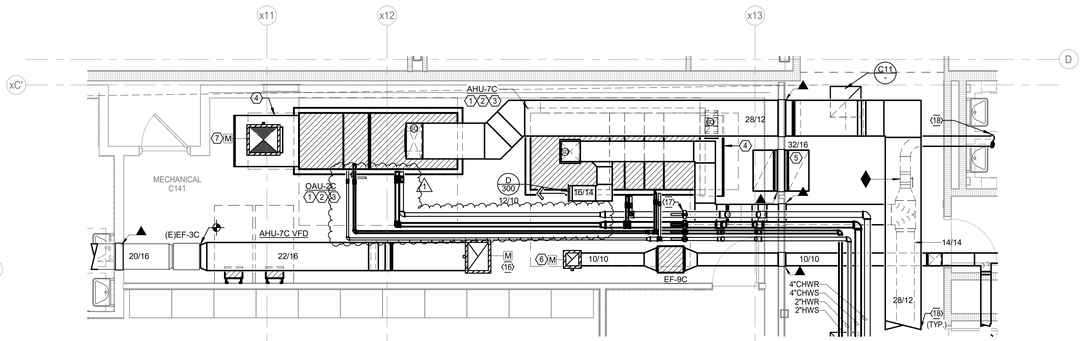
1	VERIFY SERVICE CLEARANCE FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. PROVIDE REQUIRED CLEARANCES FOR PROPER MAINTENANCE AND OPERATION. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
2	PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
3	ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF FLOOR DRAIN. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER.
4	PROVIDE SHEET METAL PLENUM, FULL SIZE OF UNIT AIR OPENINGS; LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS AS SHOWN.
5	INTERNALLY LINED RETURN AIR BELOW.
6	ROUTE 10/10 EXHAUST AIR DUCTWORK UP TO RELIEF HOOD ABOVE ON ROOF. TRANSITION EXHAUST DUCT TO CONNECT RELIEF HOOD OPENING.
7	ROUTE 22/16 OUTSIDE AIR DUCTWORK DOWN FROM OUTSIDE AIR INTAKE ABOVE ON ROOF.
8	ROUTE 22/20 EXHAUST AIR DUCTWORK UP TO RELIEF HOOD ON ROOF ABOVE. TRANSITION EXHAUST DUCT TO CONNECT RELIEF HOOD OPENING.
9	ROUTE 26/26 OUTSIDE AIR DUCTWORK DOWN FROM OUTSIDE AIR INTAKE ABOVE ON ROOF.
10	ROUTE 22/22 OUTSIDE AIR DUCTWORK DOWN FROM OUTSIDE AIR INTAKE ABOVE ON ROOF.
11	AHU TO USE EXISTING HOUSEKEEPING PAD.
12	NOT USED.
13	VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
14	UNIT SHALL BE SUSPENDED WITH UNISTRUT RUNNERS AND PLATFORM SECURED TO STRUCTURE WITH THREADED HANGER RODS. INSTALL PER MANUFACTURER. COORDINATE WITH ALL OTHER TRADES NOT TO OBSTRUCT.
15	RE: 1/M2.04B FOR CONTINUATION.
16	ROUTE 22/16 EXHAUST AIR DUCTWORK UP TO RELIEF HOOD ABOVE ON ROOF. TRANSITION EXHAUST DUCT TO CONNECT RELIEF HOOD OPENING.
17	PROVIDE ISOLATION VALVE AT LOCATION SHOWN.
18	RE: 1/M2.03A FOR CONTINUATION.
19	ROUTE DUCTWORK DOWN TO FLOOR BELOW. PROVIDE WITH FIRE DAMPER.



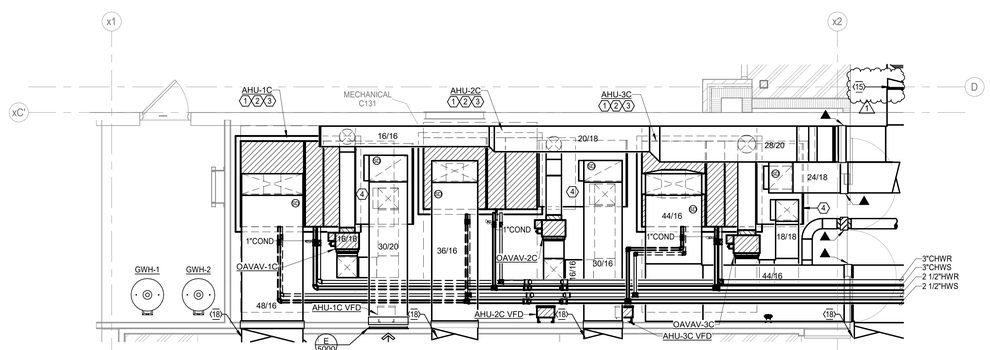
N 4 **MECHANICAL PLAN - MECHANICAL ROOM - C108 - LEVEL ONE**
Scale: 1/4" = 1'-0"



N 3 **MECHANICAL PLAN - MEZZANINE - M2.04B**
Scale: 1/4" = 1'-0"



N 2 **MECHANICAL PLAN - MECHANICAL ROOM - C141 - LEVEL ONE**
Scale: 1/4" = 1'-0"



N 1 **MECHANICAL PLAN - MECHANICAL ROOM - C131 - LEVEL ONE**
Scale: 1/4" = 1'-0"

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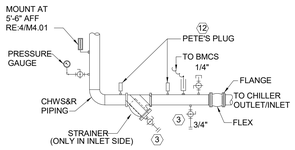
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

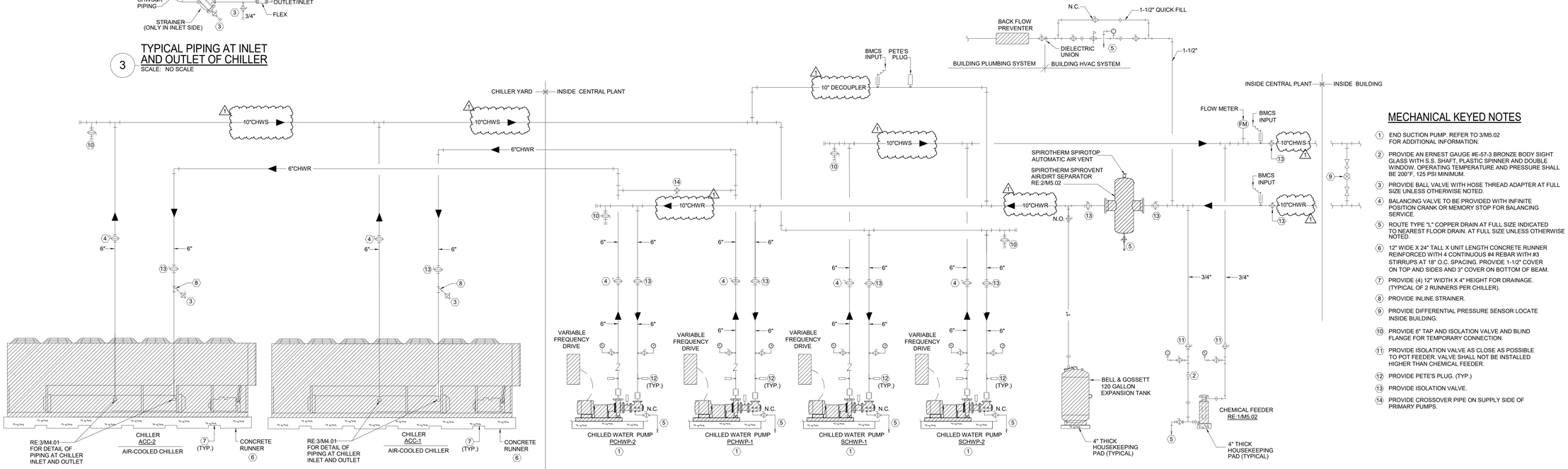
SHEET TITLE
MECHANICAL ENLARGED PLAN

SHEET NO.
M3.02

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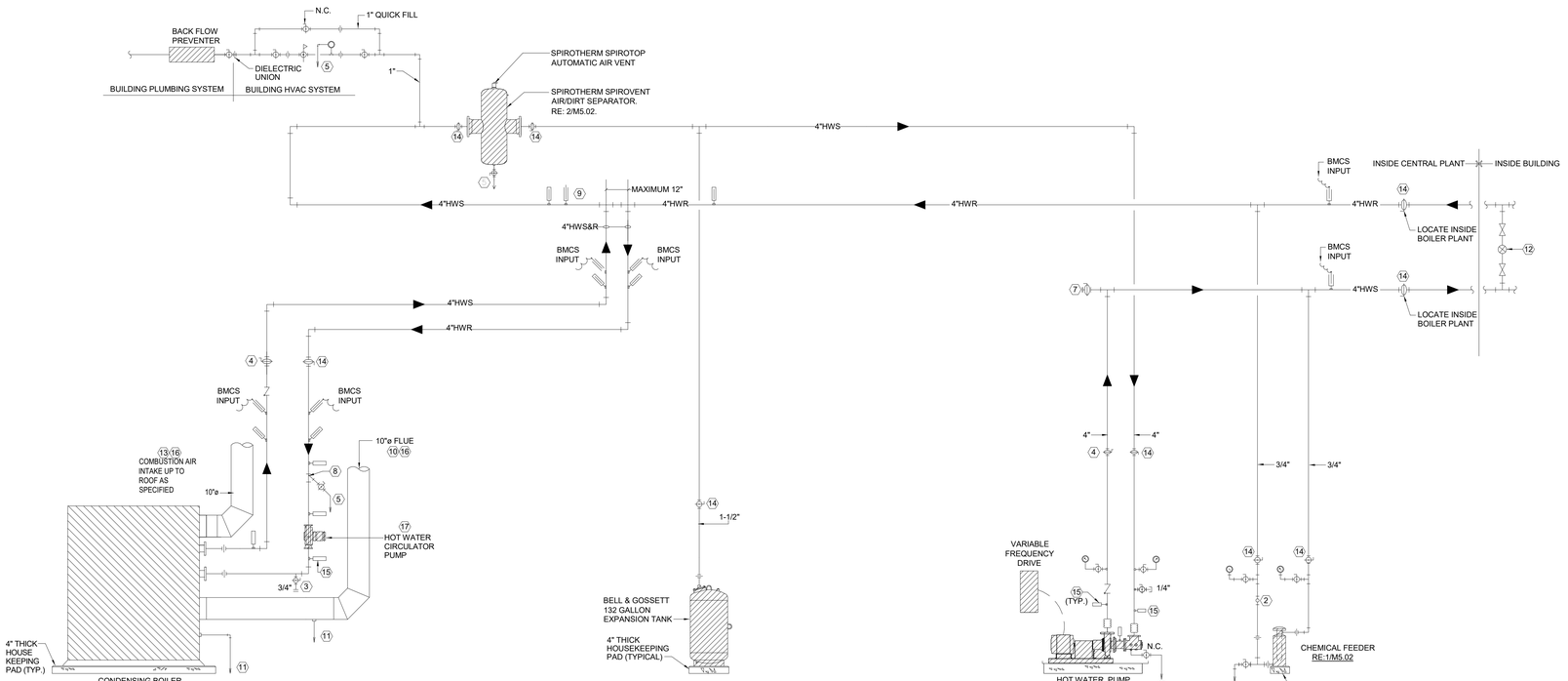
3 TYPICAL PIPING AT INLET AND OUTLET OF CHILLER
SCALE: NO SCALE



2 CHILLED WATER PIPING DIAGRAM
SCALE: NO SCALE

MECHANICAL KEYED NOTES

1. END SUCTION PUMP. REFER TO 3/M5.02 FOR ADDITIONAL INFORMATION.
2. PROVIDE AN ERNEST GAUGE #E-57-3 BRONZE BODY SIGHT GLASS WITH S.S. SHAFT, PLASTIC SPINNER AND DOUBLE WINDOW. OPERATING TEMPERATURE AND PRESSURE SHALL BE 200°F, 125 PSI MINIMUM.
3. PROVIDE BALL VALVE WITH HOSE THREAD ADAPTER AT FULL SIZE UNLESS OTHERWISE NOTED.
4. BALANCING VALVE TO BE PROVIDED WITH INFINITE POSITION CRANK OR MEMORY STOP FOR BALANCING SERVICE.
5. ROUTE TYPE "L" COPPER DRAIN AT FULL SIZE INDICATED TO NEAREST FLOOR DRAIN. AT FULL SIZE UNLESS OTHERWISE NOTED.
6. 12" WIDE X 24" TALL X UNIT LENGTH CONCRETE RUNNER REINFORCED WITH 4 CONTINUOUS #4 REBAR WITH #3 STIRRUPS AT 18" O.C. SPACING. PROVIDE 1-1/2" COVER ON TOP AND SIDES AND 3" COVER ON BOTTOM OF BEAM.
7. PROVIDE (4) 12" WIDTH X 4" HEIGHT FOR DRAINAGE. (TYPICAL OF 2 RUNNERS PER CHILLER).
8. PROVIDE INLINE STRAINER.
9. PROVIDE DIFFERENTIAL PRESSURE SENSOR LOCATE INSIDE BUILDING.
10. PROVIDE 6" TAP AND ISOLATION VALVE AND BLIND FLANGE FOR TEMPORARY CONNECTION.
11. PROVIDE ISOLATION VALVE AS CLOSE AS POSSIBLE TO POT FEEDER. VALVE SHALL NOT BE INSTALLED HIGHER THAN CHEMICAL FEEDER.
12. PROVIDE PETE'S PLUG. (TYP.)
13. PROVIDE ISOLATION VALVE.
14. PROVIDE CROSSOVER PIPE ON SUPPLY SIDE OF PRIMARY PUMPS.



1 HOT WATER PIPING DIAGRAM
SCALE: NO SCALE

MECHANICAL KEYED NOTES

1. END SUCTION PUMP. REFER TO 3/M5.02 FOR ADDITIONAL INFORMATION.
2. PROVIDE AN ERNEST GAUGE #E-57-3 BRONZE BODY SIGHT GLASS WITH S.S. SHAFT, PLASTIC SPINNER AND DOUBLE WINDOW. OPERATING TEMPERATURE AND PRESSURE SHALL BE 200°F, 125 PSI MINIMUM.
3. PROVIDE BALL VALVE WITH HOSE THREAD ADAPTER AT FULL SIZE OR AT SIZE INDICATED.
4. BALANCING VALVE TO BE PROVIDED WITH INFINITE POSITION CRANK OR MEMORY STOP FOR BALANCING SERVICE.
5. ROUTE FULL SIZE TYPE "L" COPPER DRAIN TO NEAREST FLOOR DRAIN.
6. PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
7. PROVIDE ISOLATION VALVE AND BLIND FLANGE.
8. PROVIDE INLINE STRAINER.
9. HEADER TEMPERATURE SENSOR. PROVIDED BY BOILER MANUFACTURER.
10. REFER TO DETAIL 7/M5.02 FOR MORE INFORMATION ON POWER EXHAUSTED FLUE.
11. ROUTE FULL SIZE CPVC PIPING FROM BOILER TO ACID NEUTRALIZATION BASIN AND FROM BASIN TO FLOOR DRAIN.
12. PROVIDE DIFFERENTIAL PRESSURE SENSOR LOCATE INSIDE BUILDING.
13. REFER TO DETAIL 7/M5.02 FOR MORE INFORMATION POWER EXHAUSTED BOILER COMBUSTION AIR INTAKE.
14. PROVIDE ISOLATION VALVE.
15. PROVIDE PETE'S PLUG. (TYP.)
16. REFER TO MANUFACTURER GUIDELINES FOR SIZING, ROUTING AND INSTALLATIONS.
17. CIRCULATOR PUMP PROVIDED BY BOILER MANUFACTURER.

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North Shore Multi-Use Indoor Facility

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

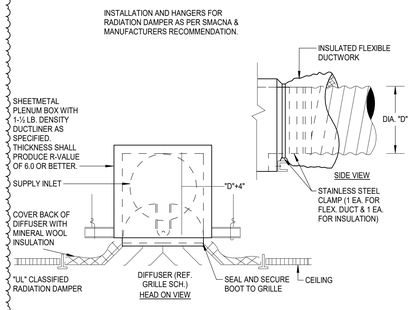
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
MECHANICAL PIPING DIAGRAMS

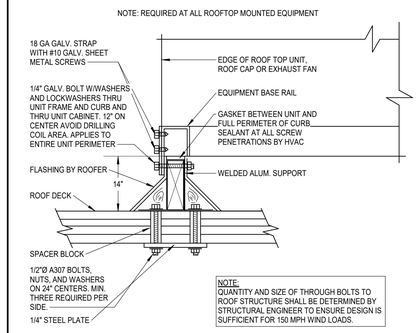
SHEET NO.
M4.01

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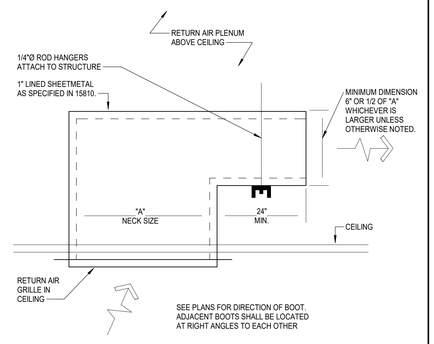
"UL" CLASSIFIED CEILING RADIATION DAMPER WITH ADAPTER FOR FLEXIBLE DUCT

12 SCALE: NONE



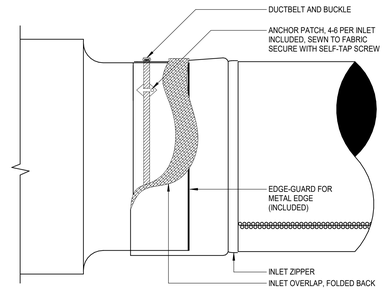
WIND RESISTANT EQUIPMENT SUPPORT

8 SCALE: NONE



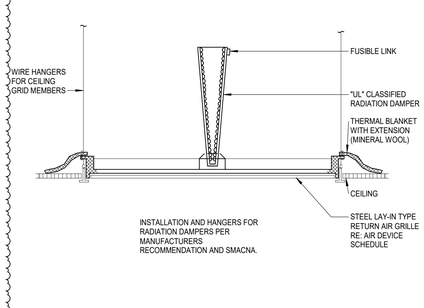
RETURN AIR GRILLE BOOT

4 SCALE: NONE



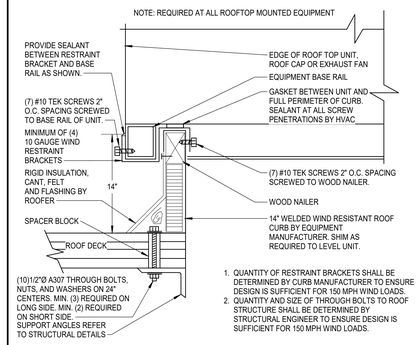
FABRIC DUCT INLET DETAIL

15 SCALE: NONE



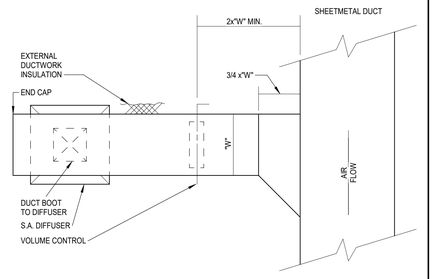
UL CLASSIFIED RADIATION DAMPER AT RETURN AIR GRILLE

11 SCALE: NONE



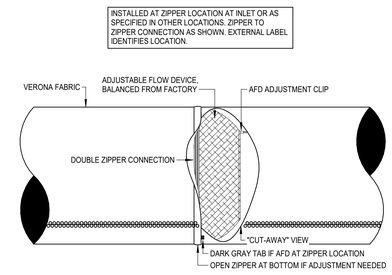
WIND RESISTANT ROOF CURB

7 SCALE: NONE



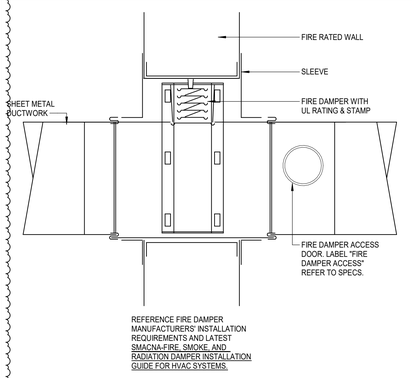
RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER

3 SCALE: NONE



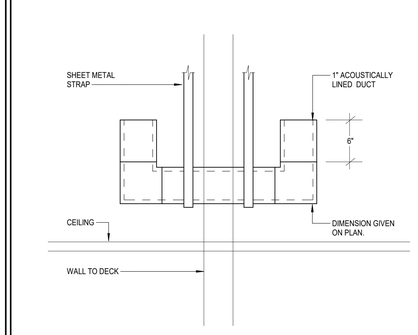
ADJUSTABLE FLOW DEVICE (AFD)

14 SCALE: NONE



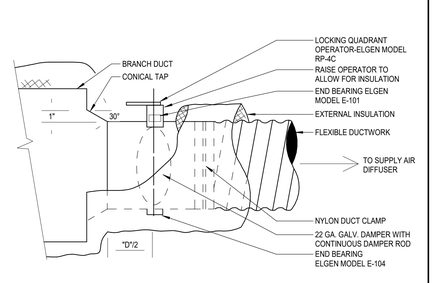
FIRE DAMPER

10 SCALE: NONE



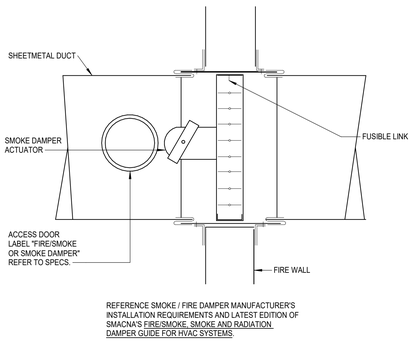
TRANSFER AIR DUCT

6 SCALE: NONE



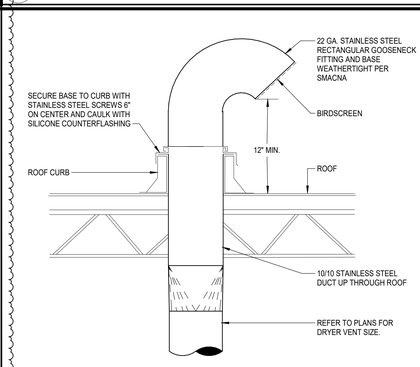
FLEXIBLE DUCT TAP - CONICAL

2 SCALE: NONE



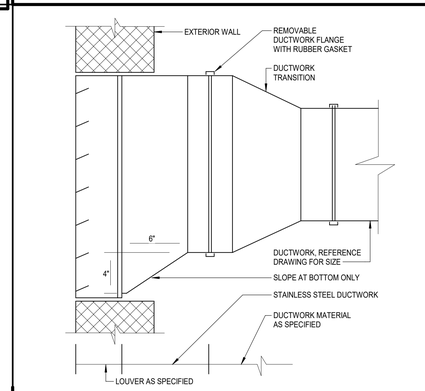
COMBINATION SMOKE / FIRE DAMPER

13 SCALE: NONE



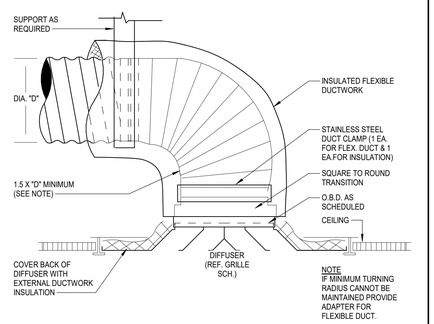
VENT THROUGH ROOF

9 SCALE: NONE



DUCTWORK AT LOUVER

5 SCALE: NONE



FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER

1 SCALE: NONE

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1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

MECHANICAL DETAILS

SHEET NO.

M5.03

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DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN						AIR TEMPERATURE (°F)		COOLING		HEATING			LOCATION	REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	POWER CHARAC. V	P	F	ENTERING DRY BULB	ENTERING WET BULB	TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	ENTERING AIR TEMP.(°F)	MINIMUM CAPACITY (BTUH)		
DMS-1	850	-	0.25	208	1	60	78.0	65.0	36,000	13,200	12.0/20.3	-	-	AV/IT C151	1-7
DMS-2	375	-	0.25	208	1	60	78.0	65.0	18,000	4,300	11.0/19.5	-	-	IDF C158	1-7

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

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE HIGH WALL UNIT.
6. PROVIDE WITH LITTLE GIANT CONDENSATE PUMP MODEL 554652 VCMA-20ULS-C-PRO, 1/30 HP, 115V/1PH/60HZ. INTALL PUMP OUTSIDE THE UNIT.
7. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.

DUCTLESS MINI-SPLIT - COOLING ONLY - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP. (°F)	MINIMUM EER/ SEER	POWER CHARAC. V	PH	F	RELATED UNIT MARK	MCA	MOCP	REMARKS
DMSCU-1	36,000	98	12.0/20.3	208	1	60	DMS-1	34	56	1-7
DMSCU-2	18,000	98	11.0/19.5	208	1	60	DMS-2	16	27	1-7

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

REMARKS:
1. PROVIDE LOW AMBIENT CONTROL DOWN TO 20°F.
2. UNIT TO BE INSTALLED PER MANUFACTURER.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE WITH DISCONNECT.
5. PROVIDE COOLING ONLY UNIT
6. PROVIDE EPOXY COATED COILS.
7. PROVIDE UNIT WITH ICM SURGE PROTECTION DEVICE. COORDINATE WITH ELECTRICAL FOR INSTALLATION.

PACKAGED AIR COOLED CHILLER - STANDARD EFFICIENCY- SCREW

MARK	ACTUAL CAPACITY (TONS)	LEAVING WATER TEMP.(°F)	GPM	PRESSURE DROP (FT.)	AMBIENT AIR TEMP. (°F)	ELECTRICAL CHARAC. V	P	F	MCA	MOCP	REMARKS
ACC-1	200	42	402	20.0	98 °F	480	3	60	455	600	1-7
ACC-2	200	42	402	20.0	98 °F	480	3	60	455	600	1-7

GENERAL NOTES:
1. MAXIMUM FOULING FACTOR FOR THE EVAPORATOR IS 0.0001
2. MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.
3. CHILLER SHALL MEET OR EXCEED BOTH ABOVE SCHEDULED FULL-LOAD AND PART-LOAD EFFICIENCIES INDICATED IN IECC 2021. COMPLY BY PATH A OR BY PATH B AS REQUIRED BY IECC 2021.

REMARKS:
1. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL.
2. PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECT SWITCH.
3. PROVIDE WITH INSULATION ON ALL SUCTION LINES.
4. PROVIDE CHILLER WITH A MINIMUM FULL LOAD EFFICIENCY OF 9.7 EER AND A MINIMUM IPLV OF 16.1.
5. PROVIDE WITH POLYMER CONDENSER FANS AND COMPRESSOR BLANKETS.
6. PROVIE CHILLER RATED FOR 65KA SCCR.
7. PROVIDE EPOXY COATED COILS.

PACKAGED AIR COOLED CHILLER - HIGH EFFICIENCY- SCREW

MARK	ACTUAL CAPACITY (TONS)	LEAVING WATER TEMP.(°F)	GPM	PRESSURE DROP (FT.)	AMBIENT AIR TEMP. (°F)	ELECTRICAL CHARAC. V	P	F	MCA	MOCP	REMARKS
ACC-1	200	42	402	20.0	98 °F	480	3	60	455	600	1-7
ACC-2	200	42	402	20.0	98 °F	480	3	60	455	600	1-7

GENERAL NOTES:
1. MAXIMUM FOULING FACTOR FOR THE EVAPORATOR IS 0.0001
2. MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.
3. CHILLER SHALL MEET OR EXCEED BOTH ABOVE SCHEDULED FULL-LOAD AND PART-LOAD EFFICIENCIES INDICATED IN IECC 2021. COMPLY BY PATH A OR BY PATH B AS REQUIRED BY IECC 2021.

REMARKS:
1. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL.
2. PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECT SWITCH.
3. PROVIDE WITH INSULATION ON ALL SUCTION LINES.
4. PROVIDE CHILLER WITH A MINIMUM FULL LOAD EFFICIENCY OF 10.600 EER AND A MINIMUM IPLV OF 19.2.
5. PROVIDE WITH POLYMER CONDENSER FANS AND COMPRESSOR BLANKETS.
6. PROVIE CHILLER RATED FOR 65KA SCCR.
7. PROVIDE EPOXY COATED COILS.

RELIEF VENT & O.A. INTAKE

MARK	CFM	MAX. S.P. (IN.WC.)	MIN. THROAT AREA	MODEL	SERVES	REMARKS
OAI-1C	4500	0.05 in-wg	7.5 SF	GI	OAU-1C	1,2,3,4,5
OAI-2C	2700	0.04 in-wg	5.0 SF	GI	OAU-2C	1,2,3,4,5
OAI-3C	3000	0.05 in-wg	5.0 SF	GI	OAU-3C	1,2,3,4,5
OAI-4C	2300	0.10 in-wg	3.0 SF	GI	DRYERS	1,2,3,4,5
RV-1C	2000	0.05 in-wg	4.0 SF	GR	EF-8C	1,2,3,4,5
RV-2C	2510	0.08 in-wg	2.7 SF	GR	EF-1C	1,2,3,4,5
RV-3C	390	0.01 in-wg	1.0 SF	GR	(E)EF-2C	1,2,3,4,5
RV-4C	1535	0.03 in-wg	2.7 SF	GR	(E)EF-3C	1,2,3,4,5
RV-5C	340	0.01 in-wg	1.6 SF	GR	EF-9C	1,2,3,4,5

REMARKS:
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH BIRD SCREEN.
3. PROVIDE WITH MOTORIZED DAMPER.
4. HOOD SHALL BE RATED FOR 150MPH WIND LOADS.
5. PROVIDE EPOXY COATING.
6. PROVIDE WITH BAROMETRIC RELIEF DAMPER.

BOILER - FORCED AIR - INDOOR

MARK	TYPE	MINIMUM GAS INPUT (MBH)	MINIMUM HEAT OUTPUT (MBH)	PRESSURE DROP (FT.H20)	GPM	FLUE SIZE	ELECTRICAL CHARAC. V	P	F	REMARKS
B-1	CONDENSING	2500.0	2400.0	10.0	160.0	10	208	3	60	1,2

GENERAL NOTES:
1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER.
2. MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS BOILER LAW. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH CIRCULATING PUMP, SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. POWER BY ELECTRICAL CONTRACTOR BUT CONTROLLED BY BOILER. CONTRACTOR TO WIRE FROM BOILER PUMP CONTROL CIRCUIT TO PUMP STARTER RELAY.
2. PROVIDE SEALED COMBUSTION BOILER.

PUMP

TAG	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE POWER	MAX RPM	ELECTRICAL CHARAC. V	P	F	MANUFACTURER	MODEL NUMBER	REMARKS
HWP-1	HOT WATER	HORIZONTAL END SUCTION	250	80.00	15	1800	480	3	60	ARMSTRONG	4030	1,2,3,4
HWP-2	HOT WATER	INLINE CIRCULATOR	160	25.00	2	1800	480	3	60	ARMSTRONG	4030	4,5
PCHWP-1	CHILLED WATER	HORIZONTAL END SUCTION	480	60.00	15	1800	480	3	60	ARMSTRONG	4030	1,2,3,4
PCHWP-2	CHILLED WATER	HORIZONTAL END SUCTION	480	60.00	15	1800	480	3	60	ARMSTRONG	4030	1,2,3,4
SCHWP-1	CHILLED WATER	HORIZONTAL END SUCTION	402	65.00	15	1800	480	3	60	ARMSTRONG	4030	1,2,3,4
SCHWP-2	CHILLED WATER	HORIZONTAL END SUCTION	402	65.00	15	1800	480	3	60	ARMSTRONG	4030	1,2,3,4

GENERAL NOTES:
1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR.
2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.

REMARKS:
1. PROVIDE WITH VARIABLE FREQUENCY DRIVE.
2. PROVIDE SUCTION DIFFUSER AT PUMP INLET.
3. PROVIDE WITH BACK PULL OUT.
4. PROVIDE WITH GAUGE TAPPINGS.
5. PUMP SHALL BE SELECTED BY BOILER MANUFACTURER, WITH DISCONNECT AND STARTER BY ELECTRICAL CONTRACTOR AND CONTROLLED BY BOILER.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
B	SUPPLY AIR	DIFFUSER	-	ALUMINUM	WHITE	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE. PERFORATED.
C	RETURN AIR	DIFFUSER	-	ALUMINUM	WHITE	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE. PERFORATED.
D	SUPPLY AIR	GRILLE	-	ALUMINUM	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
E	RETURN AIR	GRILLE	-	ALUMINUM	WHITE	TITUS	350 FL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
F	EXHAUST AIR	DIFFUSER	-	ALUMINUM	WHITE	TITUS	50F	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" OR 12"X12" FACE. PERFORATED FACE.
G	EXHAUST AIR	DIFFUSER	-	ALUMINUM	WHITE	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
H	EXHAUST AIR	GRILLE	-	ALUMINUM	WHITE	TITUS	50F	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE. PERFERATED FACE.
S	SUPPLY AIR	SLOT	-	ALUMINUM	BLACK	TITUS	FL-20-JT	4' LONG FLOWBAR, JETTHROW WITH TITUS PLENUM, 1 SLOT 2" WIDTH AND 12" INLET. PROVIDE WITH BORDER 66 OR 11 FINISH WITH EXPOSED FLANGE.
T	RETURN AIR	SLOT	-	ALUMINUM	BLACK	TITUS	FL-20	SURFACE MOUNT PLENUM SLOT DIFFUSER WITH 1 SLOT 2" WIDTH. PROVIDE WITH BORDER 66 OR 11 FINISH WITH EXPOSED FLANGE.
XA	SUPPLY AIR	DIFFUSER / GRILLE	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO INDICATED CFM.
XB	RETURN AIR	DIFFUSER	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO INDICATED CFM.
XC	EXHAUST AIR	DIFFUSER / GRILLE	-	-	-	-	-	EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO INDICATED CFM.

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

REMARKS:
1. N/A

CHILLED & HOT WATER FAN/COIL UNIT

MARK	FAN				CURRENT V	P	F	AIR TEMPERATURE (°F)		COOLING		WATER			PIPE SIZE TO COIL (IN.)	REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER				ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	ENTERING TEMP(°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	
CHWFCU-1	1,200	0	1.30	1.5	208	3	60	75.0	62.6	34,560	28,515	45	6	15.0	1"	1-7

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

REMARKS:
1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.
2. PROVIDE HORIZONTAL UNIT.
3. PROVIDE CONSTANT VOLUME UNIT.
4. PROVIDE WITH LOW VELOCITY ANGLED FILTER SECTION.
5. PROVIDE WITH FLOAT SWITCH AUTOMATIC SHUT OFF.
6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION REFER TO MANUFACTURER FOR MORE DETAILS.
7. PROVIDE 2-WAY COOLING CONTROL VALVES.

VARIABLE VOLUME TERMINAL BOX

MARK	MAXIMUM CFM	MINIMUM CFM	INLET DIAMETER SIZE (IN.)	HOT WATER COIL GPM	HOT WATER COIL CONNECTING PIPE SIZE	REMARKS
OAVAV-1C	1,500	360	12	-	-	-
OAVAV-2C	900	0	10	-	-	-
OAVAV-3C	1,925	0	14	-	-	-
OAVAV-4C	175	0	6	-	-	-

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" ESP.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. MAXIMUM STATIC PRESSURE DROP THROUGH HEATER COIL SHALL BE 0.25" ESP.
4. MAXIMUM STATIC PRESSURE DROP OF WATER THROUGH HEATER COIL SHALL BE 10' W.G.
5. BTUH REQUIRED FOR HOT WATER HEATING IS HEATING GPM MULTIPLIED BY 10,000.
6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.
7. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE
8. REFER TO PIPING AT HOT WATER COIL DETAILS. PROVIDE WITH 2-WAY CONTROL VALVE UNLESS OTHERWISE SCHEDULED.

REMARKS:
1. N/A

EXISTING FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	ELECTRICAL CHARAC. V	P	F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	REMARKS
(E)EF-2C	LOCKERS/LAUNDRY	660	0.250	1300	0.25	120	1	60	-	OAU-1C	INLINE	BELT	GREENHECK	1,2
(E)EF-3C	TOILET/SHOWERS LAUNDRY	1535	0.375	889	0.5	120	1	60	-	OAU-1C	INLINE	BELT	GREENHECK	1,2
(E)EF-4C	ELECT.	350	0.250	1870	0.25	120	1	60	-	OAU-2C	INLINE	BELT	GREENHECK	1,2
(E)EF-5C	SHOWER	100	0.250	1363	0.25	120	1	60	-	OAU-2C	INLINE	BELT	GREENHECK	1,2
(E)EF-6C	TOILET	770	0.375	1142	0.33	120	1	60	-	OAU-2C	INLINE	BELT	GREENHECK	1,2
(E)EF-7C	LOCKERS/ JAN	580	0.375	1149	0.25	120	1	60	-	OAU-1C	INLINE	BELT	GREENHECK	1,2

GENERAL NOTES:
1. INTERLOCKS ARE SHOWN FOR ASSOCIATION PURPOSES ONLY SOFTWARE INTERLOCKS ARE ACCEPPTABLE..

REMARKS:
1. EXISTING UNITS SHALL BE MODIFIED TO SCHEDULED PERFORMANCE AS NOTED ABOVE.
2. EXISTING EXHAUST FANS EQUIPPED WITH MOTORIZED DAMPER SHALL HAVE THE MOTORIZED DAMPER REPLACED.

UNIT HEATER - ELECTRIC

MARK	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	ELECTRICAL CHAR. V	P	F	CFM	MANUFACTURER	SERIES	REMARKS
EUH-1	11,200	3	1	208	3	60	400	MERKEL	UHE	1,2
EUH-2	11,200	3	1	208	3	60	400	MERKEL	UHE	1,2

REMARKS:
1. PROVIDE WITH HARD WIRED WALL MOUNTED THERMOSTAT.
2. REFER TO MANUFACTURER MANUAL FOR ADDITIONAL INSTALLATION REQUIREMENTS.

AIR HANDLING UNIT - FIELD HOUSE

MARK	FAN				POWER V	PH	F	COOLING					WATER			HEATING		WATER			PIPE SIZE TO COIL (IN.)		REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER				AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	COOLING CAPACITY (BTUH)	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER	
AHU-1C	5,000	1,500	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	145,400	45	24.2	15.0	65.0	135,000	130.0	13.6	10.0	2"	1 1/2"	1,3,4,5,7,8,10,11,12
AHU-2C	3,000	900	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	87,300	45	14.5	15.0	65.0	81,000	130.0	8.2	10.0	1 1/2"	1 1/4"	1,3,4,5,7,8,10,11,12
AHU-3C	5,505	1,925	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	160,100	45	26.7	15.0	65.0	148,635	130.0	15.0	10.0	2"	1 1/2"	1,3,4,5,7,8,10,11,12
AHU-4C	4,500	1,350	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	130,900	45	21.8	15.0	65.0	121,500	130.0	12.3	10.0	2"	1 1/4"	1,3,4,5,7,8,10,11,12
AHU-5C	2,610	750	2.00	4.0	480	3	60	75.0	62.6	53.0	52.5	75,900	45	12.6	15.0	65.0	70,470	130.0	7.1	10.0	1 1/4"	1 1/4"	1,3,4,5,7,8,10,11,12
OAU-1C	4,500	4,500	2.00	8.0	480	3	60	98.0	80.0	53.0	52.5	441,200	45	73.4	15.0	27.0	136,080	130.0	13.7	10.0	3"	1 1/2"	2,3,5,6,7,8,9
OAU-2C	2,700	2,700	2.00	4.0	480	3	60	98.0	80.0	53.0	52.5	264,000	45	43.9	15.0	27.0	81,648	130.0	8.2	10.0	2 1/2"	1 1/4"	3,5,6,7,8,9,10

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

REMARKS:
1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.
2. PROVIDE HORIZONTAL UNIT.
3. PROVIDE CONSTANT VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE..
4. PROVIDE TOP DISCHARGE.
5. PROVIDE TWO-WAY COOLING CONTROL VALVES.
6. PROVIDE THREE-WAY HEATING CONTROL VALVES.
7. PROVIDE HOT WATER COIL IN REHEAT POSITION.
8. PROVIDE UNIT WITH FLAT FILTER SECTION.
9. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL.
10. PROVIDE VERTICAL UNIT.
11. PROVIDE TWO-WAY HEATING CONTROL VALVES.
12. PROVIDE SINGLE-ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND PROGRAMMABLE ZONE TEMPERATURE AND RELATIVE HUMDITY SENSOR.

ROOF MOUNTED WEATHERPROOF AIR HANDLING UNIT

MARK	FAN				ELECTRICAL CHARAC. V	PH	F	COOLING					WATER			HEATING		WATER			PIPE SIZE TO COIL (IN.)		REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER				AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	COOLING CAPACITY (BTUH)	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER	
AHU-8C	26,000	12,000	3.00	40	480	3	60	75.0	62.6	53.0	52.5	762,100	45	125.2	15.0	65.0	702,000	130.0	70.9	10.0	4"	3"	1,2,3,4,5,6,7,9,10,12,13
AHU-9C	26,920	12,000	3.00	40	480	3	60	75.0	62.6	53.0	52.5	783,100	45	128.4	15.0	65.0	726,840	130.0	73.4	10.0	4"	3"	1,2,3,4,5,7,9,10,11,12,13
OAU-4C	24,000	24,000	2.00	33	480	3	60	98.0	80.0	53.0	52.5	2,353,100	45	391.7	15.0	27.0	725,760	130.0	73.3	10.0	6"	3"	1,2,3,4,5,6,8,9,10,13

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

REMARKS:
1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.
2. PROVIDE HORIZONTAL UNIT.
3. PROVIDE CONSTANT VOLUME UNIT WITH A VARIABLE FREQUENCY DRIVE AND ONE A REDUNDANT VFD . THIS UNIT HAS TWO VARIABLE FREQUENCY DRIVES.
4. PROVIDE FRONT DISCHARGE.
5. PROVIDE TWO-WAY COOLING CONTROL VALVES.
6. PROVIDE THREE-WAY HEATING CONTROL VALVES.
7. PROVIDE HOT WATER COIL IN REHEAT POSITION.
8. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
9. PROVIDE UNIT WITH FLAT FILTER SECTION.
10. PROVIDE UV LIGHT PER SPECIFICATIONS. UV LIGHT SHALL HAVE SEPARATE ELECTRICAL CONNECTION FROM AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS.
11. PROVIDE TWO-WAY HEATING CONTROL VALVES.
12. PROVIDE SINGLE-ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND PROGRAMMABLE ZONE TEMPERATURE AND RELATIVE HUMDITY SENSOR.
13. PROVIDE ROOF CURB WITH SOLID BOTTOM TO MEET WITH 150 MPH WINDS, ACOUSTICAL TYPE, WITH A MINIMUM OF 2" FIBERGLASS INSULATION.

100% OUTSIDE AIR HANDLING UNIT - WEIGHT ROOM

MARK	FAN				ELECTRICAL CHARAC. V	PH	F	COOLING					WATER			HEATING		WATER			PIPE SIZE TO COIL (IN.)		REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER				AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	COOLING CAPACITY	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	ENTERING AIR TEMPERATURE (°F)	HEATING CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER	
OAU-3C	3,000	3,000	2.00	5.0	480	3	60	98.0	80.0	53.0	52.5	294,100	45	49.0	15.0	27.0	90,720	130.0	9.2	10.0	2 1/2"	1 1/4"	1,2,3,5,6,7,8,9,10

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL P

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
H	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
H	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
H	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$2	LINE VOLTAGE 2-POLE SWITCH
LIGHTING CONTROLS	
$R	LIGHTING CONTROLLER WALL SWITCH REFER TO ASSOCIATED ROOM TAG AND CONTROL SCHEDULE
P	CEILING MOUNTED PHOTO SENSOR
V	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
O	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
RX	ROOM CONTROL TAG - REFER TO 'X' ROW ON ELECTRICAL CONTROL SCHEDULE FOR ROOM CONTROL SCHEME
ER	PROVIDE UL924 DEVICE(S) AS NEEDED FOR FOR EMERGENCY CIRCUITS IN ROOM.
ES	PROVIDE UL1008/UL924 DEVICE(S) AS NEEDED FOR FOR EMERGENCY CIRCUITS IN ROOM.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR CONCEALED SERVICE DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR CONCEALED SERVICE DOUBLE DUPLEX RECEPTACLE OUTLET
MDA	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
SR	PROVIDE BLACK CONTROLLED DUPLEX RECEPTACLE (LEVITON 5362-2BP). INTERLOCK DUPLEX WITH LOCAL ROOM OCCUPANCY SENSOR MEETING 2021 IECC 405.11 REQUIREMENTS.
SR	PROVIDE 2 BLACK CONTROLLED DUPLEX RECEPTACLES (LEVITON 5362-2BP) IN 2-GANG BOX WITH SINGLE COVER PLATE. INTERLOCK POWER TO BOTH DUPLEXES WITH LOCAL ROOM OCCUPANCY SENSOR MEETING 2021 IECC 405.11 REQUIREMENTS.
[H]	DIVISION 26 TO MAKE FINAL CONNECTION TO A HAND DRYER.
[R]	REMOTE GFCI DEVICE

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

GENERAL NOTES:

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

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	DAYBRITE	2FPZ-840-4-DS-UNV-DIM	RECESSED	4600L LED	4000 K	80	277 V	32 W	2'X4' LED CENTER BASKET TROFFER
C1-8	AXIS	EX4WDI-1400-1200-80-40-CL-SO-8-C-277	RECESSED	4600L LED	4000 K	80	277 V	120 W	EXTERIOR LINEAR UP/DOWN WALL WASH FOR CHAMPIONS WALL
C1-12	AXIS	EX4WDI-1400-1200-80-40-CL-SO-12-C-277	RECESSED	4600L LED	4000 K	80	277 V	160 W	EXTERIOR LINEAR UP/DOWN WALL WASH FOR CHAMPIONS WALL
D1	LIGHTOLIER	6RN/PER-DL-30-940-W-CC-Z10-U	RECESSED	3265L LED	4000 K	80	277 V	24 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT.
D2	PRESCOLITE	LFR-6RD-40L40K8-MD-DM1 / LFR-6RD-T-SWT / LFR-6RD-H	RECESSED	4245L LED	4000 K	80	277 V	33 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT.
D3	LIGHTOLIER	6RN/PER-SL-30-940-W-CC-Z10-U	RECESSED	3265L LED	4000 K	80	277 V	24 W	6-INCH MEDIUM BEAM SHOWER LIGHT
F1	DAYBRITE	FBS4-40L-840-UNV-DIM	PENDANT	4000L LED	4000 K	80	277 V	36 W	4' LINEAR UTILITY PENDANT
H1	PINNACLE	EV4DA-840HO-X'-MTG-U-FSD-1-FINISH	RECESSED	4000L LED	4000 K	80	277 V	48 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
H2-8	PINNACLE	EV4DA-840HO-8'-G1-U-FSD-1-FINISH	RECESSED	4000L LED	4000 K	80	277 V	48 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
H2-10	PINNACLE	EV4DA-840HO-10'-G1-U-FSD-1-FINISH	RECESSED	4000L LED	4000 K	80	277 V	60 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
H2-15	PINNACLE	EV4DA-840HO-15'-G1-U-FSD-1-FINISH	RECESSED	4000L LED	4000 K	80	277 V	90 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
H3-18	PINNACLE	EV3DPM-A-840HO-RI-LENGTHS-MTG-U-FSD-1-FINISH	RECESSED	4600L LED	4000 K	80	277 V	110 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
H3-21	PINNACLE	EV3DPM-A-840HO-RI-LENGTHS-MTG-U-FSD-1-FINISH	RECESSED	4600L LED	4000 K	80	277 V	128 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
P1	KENALL	MLHA3-96-R-FINISH-800LF-40K8-DIM1-DV-PM	PENDANT	4000L LED	4000 K	80	277 V	48 W	HIGH ABUSE LINEAR PENDANTS IN LOCKER ROOM AREAS
P2	ALL	3S-8'-VHD-40-MTG-FINISH/C90-CB96	PENDANT	4000L LED	4000 K	80	277 V	84 W	HIGH ABUSE LINEAR PENDANTS IN WEIGHT ROOM
R1-12	AXIS	EX4R-1100-90-CTRGBW40-SO-X'-FINISH	RECESSED	4600L LED	4000 K	80	277 V	197 W	EXTERIOR LINEAR RECESSED FIXTURE WITH RGBW CAPABILITIES
R1-20	AXIS	EX4S-1100-90-CTRGBW40-SI-X'-FINISH-UNV-CT(DMX)-1-S	SURFACE	4600L LED	4000 K	80	277 V	330 W	EXTERIOR LINEAR RECESSED FIXTURE WITH RGBW CAPABILITIES
W1	GARDCO	GWM-A08-840-T3M	WALL	3747L LED	4000 K	80	277 V	30 W	MOUNT FIXTURE AT +14'-0" AFF
S1	GARDCO	OPF-M-A12-840-T3M-AR1	POLE MOUNT 1 @ 90	22,645L LED	4000 K	80	277 V	74 W	TYPE III AREA LUMINAIRE. 30' SQUARE STEEL POLE FACTORY CUT TO 27'-6".
S2	GARDCO	OPF-M-A12-840-T3M-AR1	POLE MOUNT 1 @ 90	22,645L LED	4000 K	80	277 V	300 W	TYPE III AREA LUMINAIRE. 30' SQUARE STEEL POLE FACTORY CUT TO 27'-6".
S4	GARDCO	OPF-M-A12-840-T3M-AR1	POLE MOUNT 1 @ 90	22,645L LED	4000 K	80	277 V	600 W	TYPE III AREA LUMINAIRE. 30' SQUARE STEEL POLE FACTORY CUT TO 27'-6".
SB1	WE-EF	114-6506	SURFACE	3450L LED	4000 K	80	277 V	30 W	IMPACT RATED BOLLARD
SF1	DLC	DISC-LED-2-0-X-DIRECT-CPL	PENDANT	9680L/9180L LED	4000 K	80	277 V	650 W	PENDANT MOUNT DIRECT/INDIRECT LED 48" ROUND DOME. FINISH AND PENDANT CABLE LENGTH BY ARCHITECT.
SF2	DLC	DISC-LED-2-0-X-IC-CPL	PENDANT	9680L/9180L LED	4000 K	80	277 V	650 W	PENDANT MOUNT DIRECT/INDIRECT LED 48" ROUND DOME. FINISH AND PENDANT CABLE LENGTH BY ARCHITECT.
V1	PINNACLE	EV4DA-840HO-X'-MTG-U-FSD-1-FINISH	RECESSED	4000L LED	4000 K	80	277 V	48 W	LINEAR RECESSED ACCENT LIGHTING TO BE MOUNTED IN METAL CEILING PANELS
X1	DUAL-LITE	EVE-U-R-W-E-I	SURFACE	LED	4000 K	80	277 V	11 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.
X2	DUAL-LITE	EVE-U-R-W-E-I	SURFACE	LED	4000 K	80	277 V	11 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.
X3	DUAL LITE	EVE-U-R-W-E-I			0		277 V	5 W	UNIVERSAL LED EXIT SIGN MOUNTED WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

1. FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2. ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4. UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5. ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6. EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7. LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8. FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9. ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11. WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12. FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13. FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "X" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AX, C2X, FX") SHALL BE THE BASE FIXTURE TYPE CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITIONAL INFORMATION.
14. FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "A" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "A1A, C2A, FA") SHALL BE THE BASE FIXTURE TYPE EXCEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
15. ALL EXTERIOR LIGHT FIXTURES RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET LOCATION. WHERE SPECIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTECTED BY THE BUILDING STRUCTURE FROM FALLING OR WIND DRIVEN RAIN OR SNOW, THEY MAY BE EITHER DAMP OR WET LOCATION LISTED.
16. ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.

UTILITY CONTACT INFORMATION

NAME: FIRST LAST

PHONE: XXX-XXX-XXXX

EMAIL: EMAIL@EMAIL.COM

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE PROPOSAL SHALL INCLUDE MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A PROPOSAL WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ACCEPTED.

FIRE DETECTION AND FIRE ALARM NOTE:

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III, IN THE SUB FIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLIGIES (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, NFPA 72, LOCAL AND STATE CODE REQUIREMENTS. FURNISH AND INSTALL ALL REQUIRED FIRE ALARM DEVICES, AS REQUIRED BY CODE. VERIFY EXACT REQUIREMENTS IN THE FIELD. COORDINATE ALL LOCATIONS WITH DRAWINGS APPROVED BY AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. ALL WORK SHALL BE INCLUDED WITHIN BASE BID.

INITIAL UTILITY ELECTRICAL SERVICE COORDINATION HAS BEEN COMPLETED BY SALAS O'BRIEN. DURING BID, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE REQUIRED LABOR & MATERIALS THAT ARE NOT INCLUDED IN THE ELECTRICAL UTILITY COMPANY'S SCOPE OF WORK. FINAL UTILITY ELECTRICAL COORDINATION WILL BE FULLY THE CONTRACTOR'S RESPONSIBILITY AND ANY UNCOORDINATED WORK WILL BE AT NO EXPENSE TO OWNER.

DAYLIGHT ZONE CONTROLS

ENTIRE BUILDING IS EXEMPT FROM DAYLIGHT ZONE CONTROLS IN ACCORDANCE WITH 2018 IECC 405.2.3 EXCEPTION #4.

TOTAL BUILDING SQ FOOTAGE (TBFA): 256000

BUILDING LIGHTING ALLOWANCE PER IECC 2018 405.3.2(1) (LPA_{comb}): 256000

TOTAL CONNECTED LIGHTING POWER: 22350

DAYLIGHT ZONES REQUIRED TOTAL SQ FOOTAGE (UDZFA): 1

ADJUSTED LIGHTING POWER ALLOWANCE (LPA_{adj}): 256000

22350 < 256000

DAYLIGHT ZONES WITHIN BUILDING ARE EXEMPT.

CONDUCTOR CONVERSION CHART - 75°C

FUSE	COPPER (THHN)	ALUMINUM (XHHW-2 AL) BRANCH FEEDERS	SERVICE ENT.
100A	4#3, 1#6GND, 1-1/4"C	4#1, 1#6GND, 1-1/2"C	#8 GND (CU)
125A	4#1, 1#6GND, 1-1/2"C	4#2/0, 1#4GND, 2"C	#6 GND (CU)
150A	4#1/0, 1#6GND, 2"C	4#3/0, 1#4GND, 2"C	#6 GND (CU)
175A	4#2/0, 1#6GND, 2"C	4#4/0, 1#4GND, 2-1/2"C	#6 GND (CU)
200A	4#3/0, 1#6GND, 2"C	4#250KCMIL, 1#4GND, 3"C	#6 GND (CU)
225A	4#4/0, 1#4GND, 2-1/2"C	4#300 KCMIL, 1#2GND, 3"C	#4 GND (CU)
400A	(2 SETS:) 4#3/0, 1#GND, 2"C	(2 SETS:) 4#250KCMIL, 1#1GND, 3"C	#2 GND (CU)
500A	(2 SETS:) 4#250KCMIL, 1#2GND, 3"C	(2 SETS:) 4#350KCMIL, 1#1/0GND, 3"C	#1/0 GND (CU)
600A	(2 SETS:) 4#350KCMIL, 1#1GND, 3"C	(2 SETS:) 4#500KCMIL, 1#2/0GND, 4"C	#1/0 GND (CU)
800A	(3 SETS:) 4#300KCMIL, 1#1/0GND, 3"C	(3 SETS:) 4#400KCMIL, 1#3/0GND, 4"C	#2/0 GND (CU)
1200A	(4 SETS:) 4#350KCMIL, 1#3/0GND, 4"C	(4 SETS:) 4#500KCMIL, 1#250KCMIL GND, 4"C	#2/0 GND (CU)
2000A	(6 SETS:) 4#400KCMIL, 1#250KCMIL GND, 4"C	(7 SETS:) 4#500KCMIL, 1#400KCMIL GND, 4"C	#3/0 GND (CU)
2500A	(7 SETS:) 4#500KCMIL, 1#350KCMIL GND, 4"C	(8 SETS:) 4#600KCMIL, 1#600KCMIL GND, 4"C	#3/0 GND (CU)
3000A	(8 SETS:) 4#500KCMIL, 1#500KCMIL GND, 4"C	(9 SETS:) 4#600KCMIL, 1#600KCMIL GND, 4"C	#3/0 GND (CU)

1. ALUMINUM CONDUCTOR TO HAVE COMPRESSSION LUGS.
2. THIS CHART IS A REPRESENTATION AND NOT INDICATIVE OF ALL APPROVED CONVERSION POSSIBILITIES.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL FEEDERS IN ACCORDANCE WITH NEC AND ALUMINUM WIRING MANUFACTURERS REQUIREMENTS.
4. ALL GROUND CONDUCTORS FOR SERVICE ENTRANCE TO BE COPPER.

1. CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2. CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3. GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4. CONDUIT FILL BASED ON NEC ANNEX C.

MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDERS AND BRANCH CIRCUITS (2018 IECC 405.9)

1. Total voltage drop from the point of service to the last outlet or utilization equipment of the same voltage shall not exceed five-percent of rated voltage.
2. Total voltage drop from the point of service to transformers with adjustable taps, buck-boost transformers, uninterruptable power supplies (UPS), or voltage regulators shall not exceed five-percent of rated voltage.
3. Total voltage drop from a separately derived system, transformer with adjustable taps, buck-boost transformer, uninterruptable power supply (UPS), or voltage regulator to the last outlet or utilization equipment of the same voltage shall not exceed five-percent of rated voltage.
4. Total voltage drop from the point of service to distribution equipment of the same voltage shall not exceed two-percent of rated voltage.
5. Branch circuit voltage drop from distribution equipment to the last outlet or utilization equipment shall not exceed three-percent of rated voltage.
6. Provide the same size branch circuit conductors to last outlet on circuit unless specifically noted or indicated otherwise on the drawings. For 20 amp branch circuits operating at 150-Volts or less, provide #10 AWG wire when the first outlet is over 75-feet from the panelboard. For branch circuits operating above 150-Volts to 600-Volts, provide #10 AWG wire when the first outlet is over 150-feet from the panelboard.

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — STATE OF TEXAS — 80219 — LICENSED — PROFESSIONAL ENGINEER

10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

ELECTRICAL ESSENTIALS

SHEET NO.

E0.00

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SYMBOL LEGEND	
⌖	POINT OF CONNECTION TO EXISTING
	ITEM TO REMAIN
[ ]	ITEM TO BE REMOVED

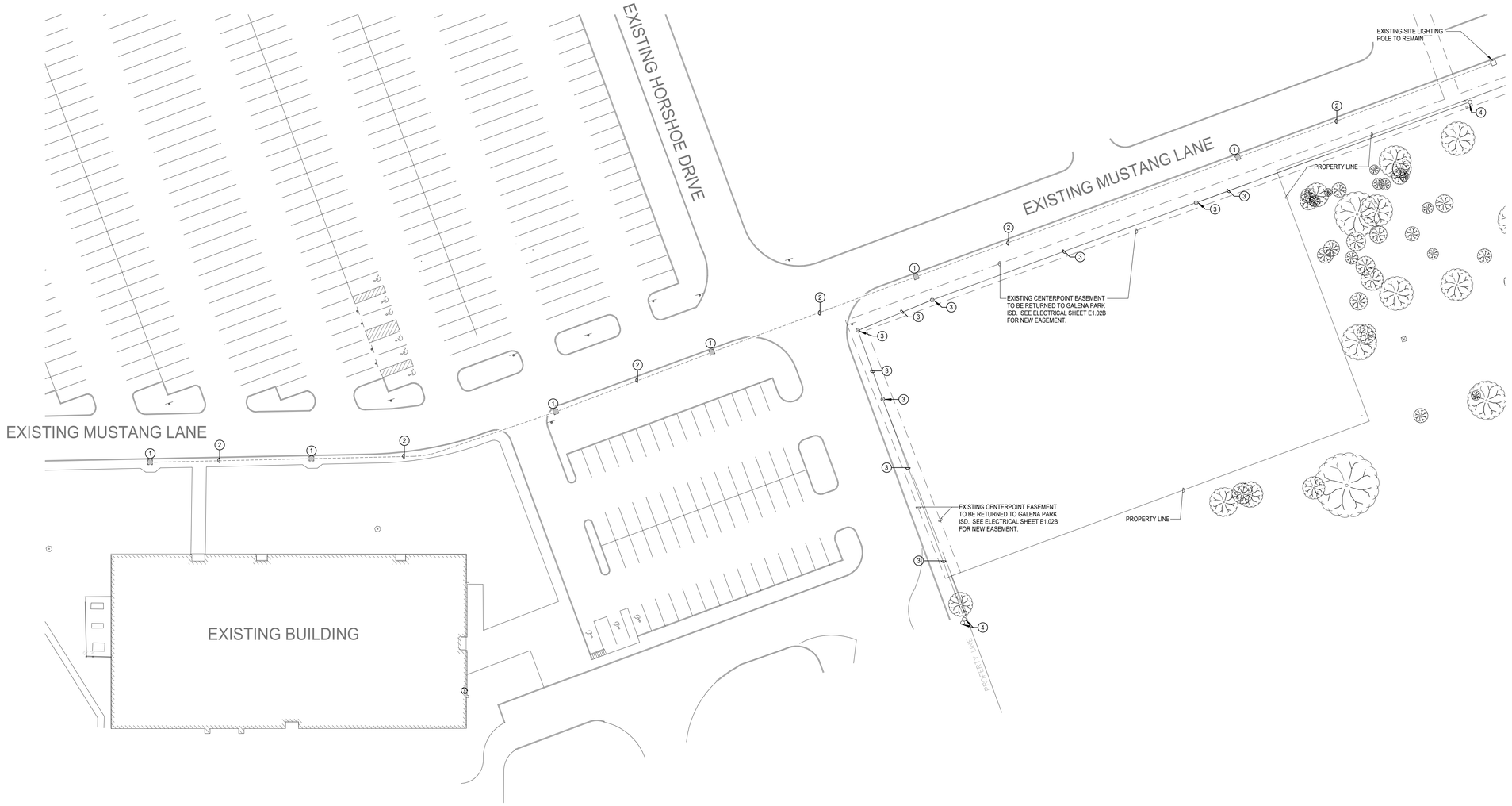
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DEMOLITION WORK	– – – – –
NEW WORK	———

ELECTRICAL DEMOLITION GENERAL NOTES

1	VERIFY EXISTING CONDITIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED. REFER TO SURVEY FOR MORE INFORMATION.
2	DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES 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 AS CALLED FORON 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 SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.
3	CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD FOR UNDERGROUND PIPING, CONDUIT/WIRING AND UTILITIES PRIOR TO BID. ANY DAMAGES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
4	OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY REPRESENTIVE WITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.
5	CONTINUITY OF ALL EXISTING CIRCUITS SERVING ELECTRICAL EQUIPMENT NOT UNDER THIS SCOPE TO REMAIN IN TACT AFTER CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EQUIPMENT PRIOR TO CONSTRUCTION.
6	VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
7	UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
8	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.
9	DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
10	REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS.
11	RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE OWNER.
12	PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS. PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.
13	UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING INTERIOR AND EXTERIOR LIGHT FIXTURES AND EXIT SIGNS. EXISTING CIRCUITS TO REMAIN IN PLACE FOR RE-USE. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING INTERIOR AND EXTERIOR LIGHT FIXTURES AND EXIT SIGNS. EXISTING CIRCUITS TO REMAIN IN PLACE FOR RE-USE.
14	UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES, FLOORBOXES, DROP CORDS AND CORD REELS BACK TO SOURCE.

ELECTRICAL KEYED NOTES

1	1	EXISTING SITE LIGHTING POLE AND ASSOCIATED LIGHT FIXTURES TO BE DEMOLISHED.
	2	EXISTING UNDERGROUND LIGHTING CONDUITS AND ASSOCIATED WIRING TO BE ABANDONED IN PLACE.
	3	EXISTING CENTERPOINT UTILITY POLES AND ASSOCIATED OVERHEAD CONDUCTORS TO BE DEMOLISHED AND RELOCATED TO PROPERTY LINE BOUNDARY AND NEW CENTERPOINT EASEMENT. TO BE COORDINATED WITH CENTERPOINT MAJOR OVERHEAD POWER DIVISION. SEE ELECTRICAL SHEET E1.02B FOR PROPOSED NEW CENTERPOINT UTILITY POLE LOCATIONS AND NEW OVERHEAD CONDUCTOR ROUTING PATH.
	4	EXISTING CENTERPOINT UTILITY POLES TO REMAIN.



N

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

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
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LICENSED
ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL DEMOLITION SITE PLAN

SHEET NO.
E0.01

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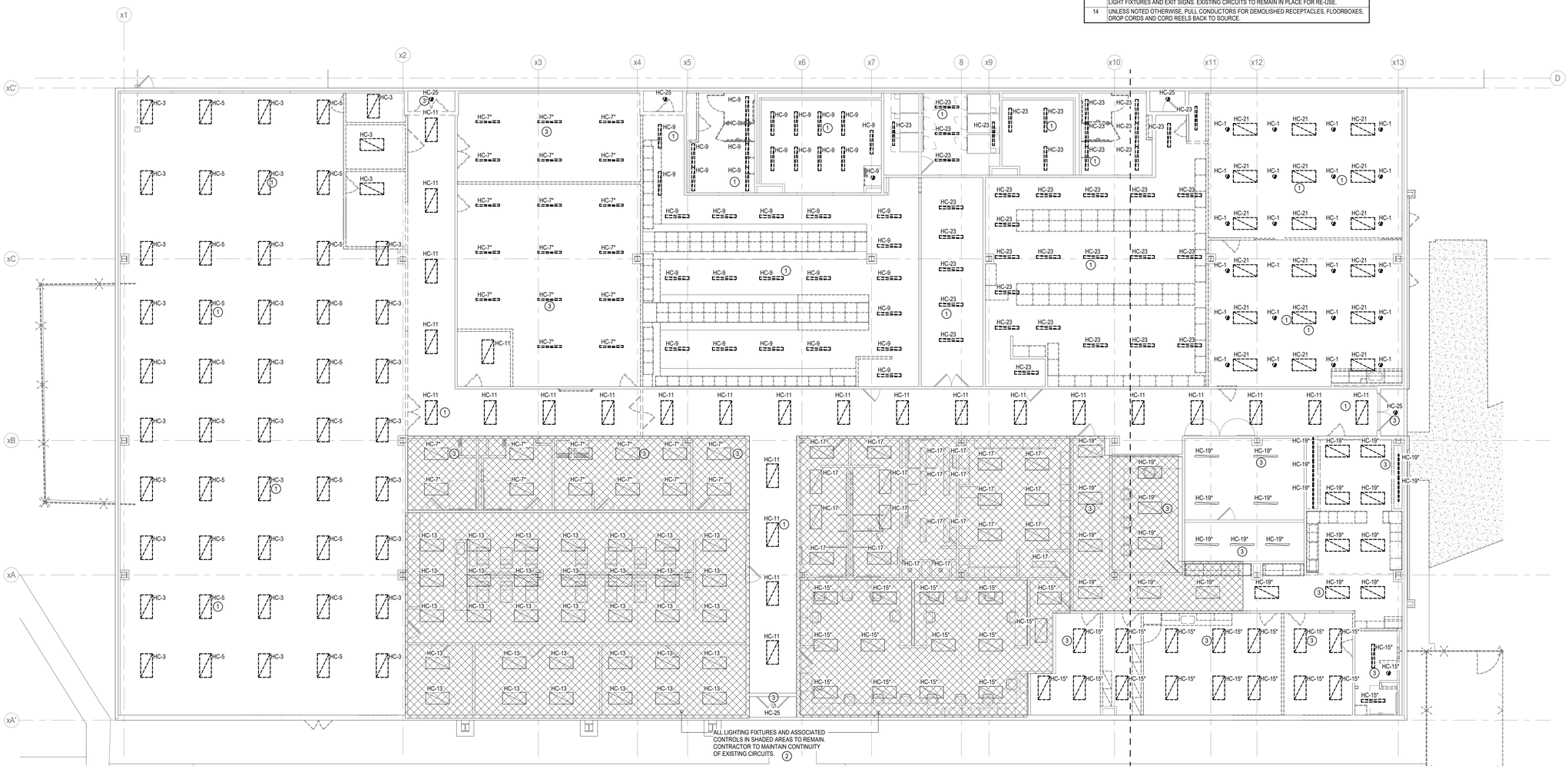
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DEMOLITION WORK	- - - - - -
NEW WORK	———

ELECTRICAL DEMOLITION GENERAL NOTES

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14	UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES, FLOORBOXES, DROP CORDS AND CORD REELS BACK TO SOURCE.

ELECTRICAL KEYED NOTES

1	EXISTING LIGHTING CIRCUIT CONDUIT AND WIRING TO BE DEMOLISHED BACK TO SOURCE PANEL COMPLETE. CONTRACTOR TO ENDURE NO OTHER LIGHTING FIXTURES ARE ON CIRCUIT AND TO VERIFY CIRCUIT NUMBER SHOWN, TURN BREAKER IN THE OFF POSITION AND RE-USE LIGHTING CIRCUIT IN NEW WORK. REFER TO ELECTRICAL LIGHTING SHEETS FOR NEW CIRCUITS.
2	EXISTING LIGHTING CIRCUITS AND ASSOCIATED CONTROLS TO REMAIN. TYPICAL IN SHADED AREA.
3	EXISTING PARTIAL LIGHTING CIRCUIT CONDUIT AND WIRING TO BE DEMOLISHED BACK TO NEAREST UPSTREAM JUNCTION BOX COMPLETE FOR NEW LIGHTING ADDITION. CONTRACTOR TO INTERCEPT AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LIGHTING FIXTURES AND RECONNECT AS REQUIRED. IN AREAS NOT UNDER SCOPE, LIGHTING AND ASSOCIATED LIGHTING CONTROLS TO REMAIN OPERATIONAL. TYPICAL.



N

1 **ELECTRICAL DEMOLITION LIGHTING FLOOR PLAN - LEVEL ONE - UNIT A**
Scale: 1/8" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
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LICENSED
CENSED
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

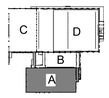
Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL DEMOLTION LIGHTING PLAN - LEVEL ONE - UNIT A

SHEET NO.
E0.02A



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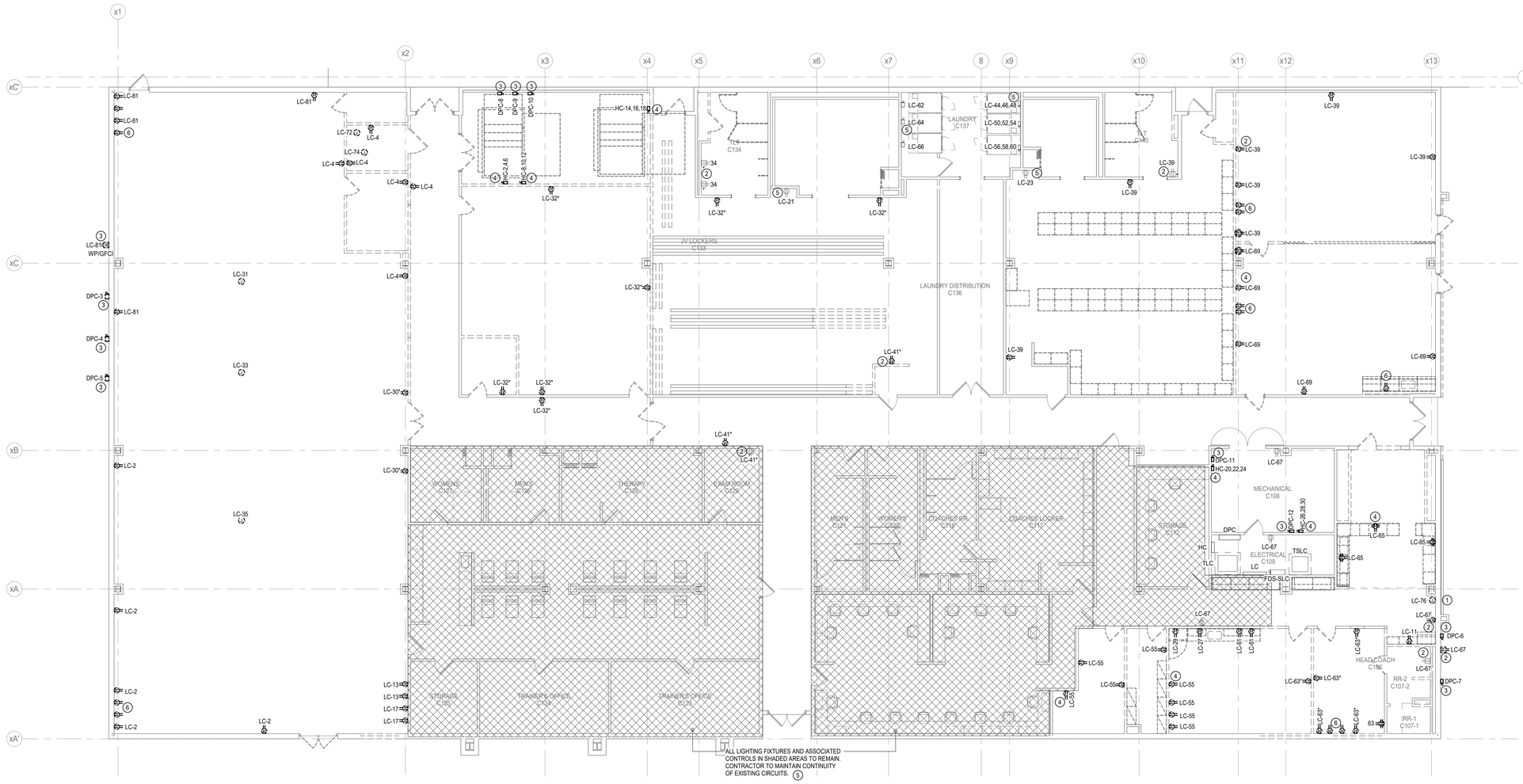
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DEMOLITION WORK	- - - - - -
NEW WORK	———

ELECTRICAL DEMOLITION GENERAL NOTES

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5	CONTINUITY OF ALL EXISTING CIRCUITS SERVING ELECTRICAL EQUIPMENT NOT UNDER THIS SCOPE TO REMAIN IN TACT AFTER CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EQUIPMENT PRIOR TO CONSTRUCTION.
6	VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
7	UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
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9	DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
10	REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS.
11	RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE OWNER.
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14	UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES, FLOORBOXES, DROP CORDS AND CORD REELS BACK TO SOURCE.

ELECTRICAL KEYED NOTES

1	FIRE ALARM CONTROL PANEL TO BE DEMOLISHED. CONTRACTOR TO DEMOLISH JUNCTION BOX AND ASSOCIATED CIRCUIT BACK TO SOURCE PANEL COMPLETE. FIRE ALARM CONTROL PANEL TO BE RELOCATED TO NEW IDF ROOM. CONTRACTOR TO VERIFY CIRCUIT NUMBER SHOWN, TURN BREAKER IN THE OFF POSITION AND LABELED AS SPARE UNLESS ITS RE-USED IN RENOVATION CONSTRUCTION.
2	EXISTING PARTIAL POWER CIRCUIT CONDUIT AND WIRING TO BE DEMOLISHED BACK TO NEAREST UPSTREAM JUNCTION BOX COMPLETE. CONTRACTOR TO VERIFY CIRCUIT NUMBER SHOWN. REMAINING ELECTRICAL DEVICES AND PARTIAL CIRCUIT TO REMAIN OPERABLE.
3	EXISTING POWER CIRCUIT CONDUIT AND WIRING TO BE DEMOLISHED BACK TO SOURCE PANEL COMPLETE. CONTRACTOR TO VERIFY CIRCUIT NUMBER SHOWN, TURN BREAKER IN THE OFF POSITION AND LABELED AS SPARE.
4	EXISTING POWER CIRCUIT CONDUIT AND WIRING TO BE DEMOLISHED BACK TO SOURCE PANEL COMPLETE. CONTRACTOR TO VERIFY EXISTING CIRCUIT NUMBER SHOWN. CIRCUIT TO BE USED IN NEW CONSTRUCTION, REFER TO ELECTRICAL POWER SHEETS.
5	EXISTING ELECTRICAL DEVICES AND ASSOCIATED CIRCUITS TO REMAIN. TYPICAL IN SHADED AREA.
6	CIRCUIT NUMBER WAS NOT IDENTIFIED IN EXISTING DRAWINGS. CONTRACTOR TO VERIFY THAT NO OTHER DEVICES ARE ON CIRCUIT. EXISTING RECEPTACLES AND ASSOCIATED CIRCUIT TO BE DEMOLISHED BACK TO SOURCE PANEL OR NEAREST UPSTREAM JUNCTION BOX COMPLETE. REMAINING DEVICES NOT UNDER DEMOLITION SCOPE TO REMAIN OPERATIONAL AFTER CONSTRUCTION. CONTRACTOR TO PROVIDE CIRCUIT NUMBER IN AS-BUILT DRAWINGS.



N

1 **ELECTRICAL DEMOLITION PLAN - LEVEL ONE - UNIT A**
Scale: 1/8" = 1'-0"

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STATE OF TEXAS
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LICENSED
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10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

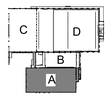
Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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25-0056.00

SHEET TITLE
ELECTRICAL DEMOLTION POWER PLAN - LEVEL ONE - UNIT A

SHEET NO.
E0.03A



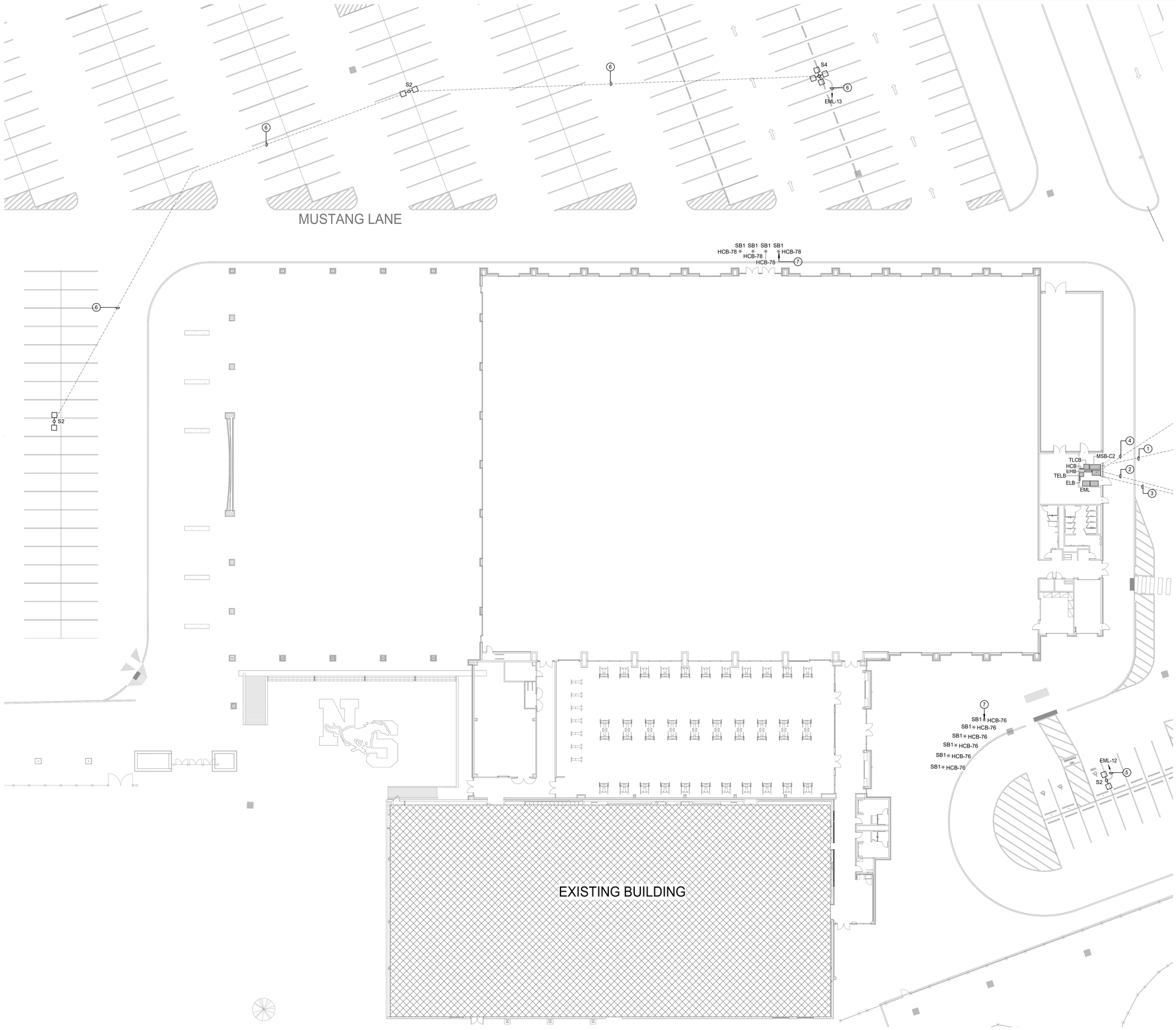
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SITE GENERAL NOTES

1	CONTRACTOR TO COORDINATE FINAL LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES.
2	REFER TO CIVIL DRAWINGS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3	PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.
4	ALL FACILITIES INSTALLED TO SERVE THE UTILITY COMPANY SHALL BE MADE PER THE UTILITY COMPANY STANDARDS. A MINIMUM 1-FOOT VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE UTILITY COMPANY PRIMARY DUCTBANK AND ALL OTHER UTILITIES CROSSING THE DUCTBANK. A MINIMUM 5-FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE UTILITY COMPANY PRIMARY DUCTBANK AND ALL OTHER UTILITIES RUNNING PARALLEL. A MINIMUM 4-FEET SHALL BE MAINTAINED BETWEEN PRIMARY DUCTBANK TOP OF CONCRETE AND FINAL GRADE.
5	DO NOT ROUTE CONDUITS THROUGH DETENTION PONDS.
6	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.

ELECTRICAL KEYED NOTES

1	1	UNDERGROUND SERVICE ENTRANCE FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM SECONDARY TAPS OF UTILITY TRANSFORMER TO MAIN SWITCHBOARD MSB-CB IN MAIN ELECTRICAL ROOM VIA CONCRETE ENCASED DUCT-BANK. REFER TO FEEDER SCHEDULE, SHEET ES.01.
	2	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM AUTOMATIC TRANSFER SWITCH, ATS-CB, 'LOAD' LUGS TO MANUAL TRANSFER SWITCH, MTS-CB, 'NORMAL' LUGS VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET ES.01.
	3	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM MANUAL TRANSFER SWITCH, MTS-CB, 'LOAD' LUGS TO EMERGENCY PANEL 'EHC' VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO ROUTE CONDUITS AND FEEDERS VIA EMERGENCY ELECTRICAL ROOM IN PULL BOX TO MAKE TRANSITION TO ABOVE GROUND. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET ES.01.
	4	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH, ATS-CB, 'EMERGENCY' LUGS VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO ROUTE CONDUITS AND FEEDERS VIA EMERGENCY ELECTRICAL ROOM IN PULL BOX TO MAKE TRANSITION TO ABOVE GROUND. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET ES.01.
	5	PROVIDE 2 #10, 1#10 GND IN 1" CONDUIT FOR SITE LIGHTING CIRCUITS. CONTRACTOR TO SAW-CUT EXISTING CONCRETE AND REPAIR AFTER UNDERGROUND CONDUIT AND WIRING INSTALLATION. LIGHTING CIRCUIT CONTROLLED BY LIGHTING CONTROL PANEL "LCP" LOCATED IN MAIN ELECTRICAL ROOM. REFER TO DETAIL 6/E5.04 AND DETAIL 1/E5.05.
	6	PROVIDE 2 #8, 1#8 GND IN 1" CONDUIT FOR SITE LIGHTING CIRCUITS TO ALSO BE USED FOR EMERGENCY EGRESS LIGHTING. CONTRACTOR TO SAW-CUT EXISTING CONCRETE AND REPAIR AFTER UNDERGROUND CONDUIT AND WIRING INSTALLATION. LIGHTING CIRCUIT CONTROLLED BY LIGHTING CONTROL PANEL "LCP" LOCATED IN MAIN ELECTRICAL ROOM. REFER TO DETAIL 6/E5.04 AND DETAIL 1/E5.05.
	7	PROVIDE 2 #10, 1#10 GND IN 1" CONDUIT FOR BOLLARD LIGHTING CIRCUITS. LIGHTING CIRCUIT CONTROLLED BY LIGHTING CONTROL PANEL "LCP" LOCATED IN MAIN ELECTRICAL ROOM. REFER TO DETAIL 6/E5.04 AND DETAIL 1/E5.05. (TYPICAL).



1 **ELECTRICAL SITE PLAN - NEW WORK - AREA A**
Scale: 1" = 20'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
CENSED
ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL SITE PLAN - AREA A

SHEET NO.
E1.01A

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SITE GENERAL NOTES

1	CONTRACTOR TO COORDINATE FINAL LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES.
2	REFER TO CIVIL DRAWINGS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3	PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.
4	ALL FACILITIES INSTALLED TO SERVE THE UTILITY COMPANY SHALL BE MADE PER THE UTILITY COMPANY STANDARDS. A MINIMUM 1-FOOT VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE UTILITY COMPANY PRIMARY DUCTBANK AND ALL OTHER UTILITIES CROSSING THE DUCTBANK. A MINIMUM 5-FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE UTILITY COMPANY PRIMARY DUCTBANK AND ALL OTHER UTILITIES RUNNING PARALLEL. A MINIMUM 4-FEET SHALL BE MAINTAINED BETWEEN PRIMARY DUCTBANK TOP OF CONCRETE AND FINAL GRADE.
5	DO NOT ROUTE CONDUITS THROUGH DETENTION PONDS.
6	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.

ELECTRICAL KEYED NOTES

1	FUTURE 500 KW NATURAL GAS GENERATOR IN WEATHER ENCLOSURE. REFER TO ONE-LINE DIAGRAM, SHEET E5.01.
2	CONCRETE PAD FOR UTILITY TRANSFORMER PER CENTERPOINT REQUIREMENTS. TRANSFORMER TO BE SIZED PER CENTERPOINT, 12470Y/480Y/277V, STEP-DOWN TRANSFORMER.
3	800A MANUAL TRANSFER SWITCH WITH CONNECTION BOX FOR TEMPORARY GENERATOR. REFER TO DETAIL 2, SHEET E5.05.
4	MEDIUM VOLTAGE UNDERGROUND CONCRETE ENCASE DUCT-BANK PER CENTERPOINT STANDARDS. CONDUIT TO TRANSITION FROM POLE TO UNDERGROUND DUCT-BANK PER CENTERPOINT STANDARDS AND TURN UP UNDER NEW PAD MOUNTED TRANSFORMER. REFER TO SHEET E1.02B FOR CONTINUATION.
5	PROPOSED LOCATION OF CENTERPOINT MEDIUM VOLTAGE DISCONNECT & METER PER CENTERPOINT STANDARDS.
6	PROVIDE 4-#3/0 AWG, 1-#2/0 AWG GROUND IN EACH OF FOUR (4) EXISTING 2" SCHEDULE 40 PVC CONDUITS FROM 500 KW GENERATOR TO ATS-CB'S "EMERGENCY" LUGS VIA EXISTING UNDERGROUND CONCRETE ENCASED DUCT-BANK AND CONNECT AS REQUIRED. REFER TO REFER TO ONE-LINE DIAGRAM, SHEET E5.01 AND ELEVATIONS 5 & 6, SHEET E4.01.
7	UNDERGROUND SERVICE ENTRANCE FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM SECONDARY TAPS OF UTILITY TRANSFORMER TO MAIN SWITCHBOARD MSB-CB IN MAIN ELECTRICAL ROOM VIA CONCRETE ENCASED DUCT-BANK. REFER TO FEEDER SCHEDULE, SHEET E5.01.
8	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM AUTOMATIC TRANSFER SWITCH, ATS-CB, 'LOAD' LUGS TO MANUAL TRANSFER SWITCH, MTS-CB, 'NORMAL' LUGS VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET E5.01.
9	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM MANUAL TRANSFER SWITCH, MTS-CB, 'LOAD' LUGS TO EMERGENCY PANEL 'EHC' VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO ROUTE CONDUITS AND FEEDERS VIA EMERGENCY ELECTRICAL ROOM IN PULL BOX TO MAKE TRANSITION TO ABOVE GROUND. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET E5.01.
10	PROVIDE 2 #8, 1#8 GND IN 1" CONDUIT FOR SITE LIGHTING CIRCUITS TO ALSO BE USED FOR EMERGENCY EGRESS LIGHTING. CONTRACTOR TO SAW-CUT EXISTING CONCRETE AND REPAIR AFTER UNDERGROUND CONDUIT AND WIRING INSTALLATION. LIGHTING CIRCUIT CONTROLLED BY LIGHTING CONTROL PANEL "LCP" LOCATED IN MAIN ELECTRICAL ROOM. REFER TO DETAIL 6/E5.04 AND DETAIL 1/E5.05.



N

1 ELECTRICAL SITE PLAN - NEW WORK - AREA B

Scale: 1" = 20'-0"

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North Shore Multi-Use Indoor Facility

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER

10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

ELECTRICAL SITE PLAN - AREA B

SHEET NO.

E1.02B

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ELECTRICAL GENERAL NOTES

1. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS. REFER TO SPECIFICATIONS AND CONTROLS SCHEDULE.
2. 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-ACCESSIBLEAND / 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 LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
3. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
4. OCCUPANCY / VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2018 C405.
5. SPACES WITH MULTIPLE OCCUPANCY / VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND / OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS AND EXIT SIGNS.
7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
8. FIELD COORDINATE LOCATION OF AV ZONE AND AV ZONE SWITCH WITH EXISTING TEACHING WALLS.

LIGHTING GENERAL NOTES

1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2	ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
3	CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE. PROVIDE POWER VIA NEAREST LIGHTING CIRCUIT NOT TO EXCEED 16A.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5	REFER TO SHEETS 10.41 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTACTOR SCHEDULE.
6	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
7	ELECTRICAL CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL SYSTEMS.
8	PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
9	ALL CLASSROOMS AND SPACES DO NOT REQUIRE DAYLIGHT HARVESTING CONTROLS, UNLESS NOTED ON PLAN. PER 2015 IECC C405.2.3 WATTAGE REQUIREMENT.
10	CORRIDOR LIGHTING DOES NOT REQUIRE OCCUPANCY SENSING DEVICES AND/OR DAYLIGHT HARVESTING CONTROLS PER 2015 IECC C405.2 REGARDING EXIT PASSAGEWAYS AND SAFETY/SECURITY REQUIREMENTS.
11	PROVIDE CONNECTION FROM INVERTER PANEL FOR EMERGENCY POWER FOR ALL EGRESS FIXTURES, PROVIDE ECM MODULE FOR CONNECTION OF EMERGENCY LOADS. CIRCUIT NORMAL AND EMERGENCY POWER AS INDICATED. REFER TO DETAIL #12 ON SHEET 10.42 AND ONE-LINE DIAGRAM ON SHEET 10.51.
12	LOWER CASE LETTER INDICATES SWITCHING SCHEME.
13	ALL ABOVE CEILING POWER PACKS TO BE MOUNTED ABOVE ROOM DOORS REGARDLESS OF SCHEMATIC DESIGN SHOWN ON FLOOR PLANS. E.C. SHALL ENSURE INSTALLATION OF ALL POWER PACKS OCCUR ABOVE ROOM DOORS.

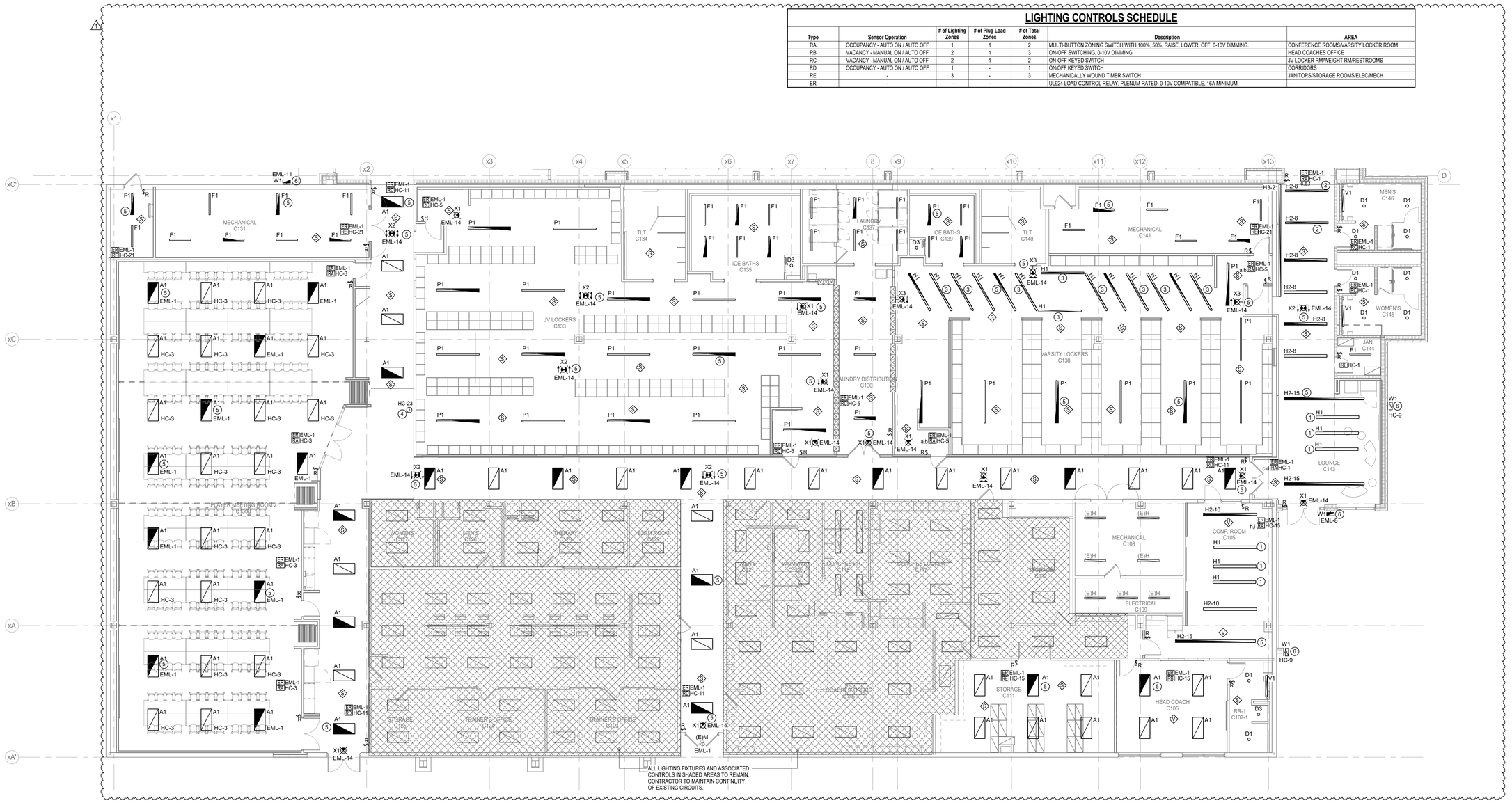
LIGHTING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY MAINTAIN LIGHTING LEVELS IN EGRESS PATHES PER NFPA 101 INCASE OF POWER LOSS AND WHENEVER FIRE ALARM SYSTEM IS ACTIVATED. CONTRACTOR TO MAKE ALL TIE-IN CONNECTIONS TO FIRE ALARM SYSTEM AND TO COORDINATE WITH FIRE ALARM CONTRACTOR PRIOR TO COMMENCMENT OF WORK.

ELECTRICAL KEYED NOTES

1	ARCHITECTURAL METAL SLOTTED CEILING PANEL: H1 FIXTURES TO BE INSTALLED IN SLOTS OF METAL CEILING PANELS. COORDINATE WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER FOR MOUNTING REQUIREMENTS. H2 FIXTURES TO BE CONTROLLED INDEPENDANTLY OF OTHER LIGHTING FIXTURES ON SAME CIRCUIT.
2	ARCHITECTURAL METAL SLOTTED CEILING PANEL. H2 FIXTURES TO BE INSTALLED IN SLOTS OF METAL CEILING PANELS. COORDINATE WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER FOR MOUNTING REQUIREMENTS. H2 FIXTURES TO BE CONTROLLED INDEPENDANTLY OF OTHER LIGHTING FIXTURES ON SAME CIRCUIT.
3	ARCHITECTURAL METAL SLOTTED CEILING PANEL WITH SCHOOL LOGO. H3 FIXTURES TO BE INSTALLED IN SLOTS OF METAL CEILING PANELS. COORDINATE WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER FOR MOUNTING REQUIREMENTS. H3 FIXTURES TO BE CONTROLLED INDEPENDANTLY OF OTHER LIGHTING FIXTURES ON SAME CIRCUIT.
4	ARKTURA CEILING PANELS WITH SINGLE POINT 277V CONNECTION AND CIRCUIT AS INDICATED. DECORATIVE CEILING PANEL TO BE CONTROLLED VIA LOW VOLTAGE DIMMING SWITCH. COORDINATE WITH ARCHITECT FOR SWITCH LOCATION.
5	EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED TO LIGHTING INVERTER AND SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING PER NEC. CONTRACTOR SHALL VERIFY AND COORDINATE ALL CHEVRONS AND THEIR ASSOCIATED DIRECTIONS PRIOR TO PURCHASE OF EXIT SIGNS. (TYPICAL)
6	WALL PACK LIGHTING TO BE ROUTED VIA LIGHTING CONTROL PANEL 'LCP'

LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description	AREA
RA	OCCUPANCY - AUTO ON / AUTO OFF	1	1	2	MULTI-BUTTON ZONING SWITCH WITH 100%, 50%, RAISE, LOWER, OFF; 0-10V DIMMING.	CONFERENCE ROOMS/VARSITY LOCKER ROOM
RB	VACANCY - MANUAL ON / AUTO OFF	2	1	3	ON-OFF SWITCHING, 0-10V DIMMING.	HEAD COACHES OFFICE
RC	VACANCY - MANUAL ON / AUTO OFF	2	1	2	ON-OFF KEYED SWITCH	JV LOCKER RM/WEIGHT RM/RESTROOMS
RD	OCCUPANCY - AUTO ON / AUTO OFF	1	-	1	ON/OFF KEYED SWITCH	CORRIDORS
RE	-	3	-	3	MECHANICALLY WOUND TIMER SWITCH	JANITORS/STORAGE ROOMS/ELEC/MECH
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM	-



N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL ONE - UNIT A**
Scale: 1/8" = 1'-0"

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
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North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — STATE OF TEXAS — 80219 — LICENSED — PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT A

SHEET NO.
E2.02A

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ELECTRICAL GENERAL NOTES

1. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS. REFER TO SPECIFICATIONS AND CONTROLS SCHEDULE.
2. 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-ACCESSIBLEAND / 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 LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
3. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
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LIGHTING GENERAL NOTES

1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2	ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
3	CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE. PROVIDE POWER VIA NEAREST LIGHTING CIRCUIT NOT TO EXCEED 16A.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5	REFER TO SHEETS 10.41 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTACTOR SCHEDULE.
6	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
7	ELECTRICAL CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL SYSTEMS.
8	PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
9	ALL CLASSROOMS AND SPACES DO NOT REQUIRE DAYLIGHT HARVESTING CONTROLS, UNLESS NOTED ON PLAN. PER 2015 IECC C405.2.3 WATTAGE REQUIREMENT.
10	CORRIDOR LIGHTING DOES NOT REQUIRE OCCUPANCY SENSING DEVICES AND/OR DAYLIGHT HARVESTING CONTROLS PER 2015 IECC C405.2 REGARDING EXIT PASSAGEWAYS AND SAFETY/SECURITY REQUIREMENTS.
11	PROVIDE CONNECTION FROM INVERTER PANEL FOR EMERGENCY POWER FOR ALL EGRESS FIXTURES, PROVIDE ECM MODULE FOR CONNECTION OF EMERGENCY LOADS. CIRCUIT NORMAL AND EMERGENCY POWER AS INDICATED. REFER TO DETAIL #12 ON SHEET 10.42 AND ONE-LINE DIAGRAM ON SHEET 10.51.
12	LOWER CASE LETTER INDICATES SWITCHING SCHEME.
13	ALL ABOVE CEILING POWER PACKS TO BE MOUNTED ABOVE ROOM DOORS REGARDLESS OF SCHEMATIC DESIGN SHOWN ON FLOOR PLANS. E.C. SHALL ENSURE INSTALLATION OF ALL POWER PACKS OCCUR ABOVE ROOM DOORS.

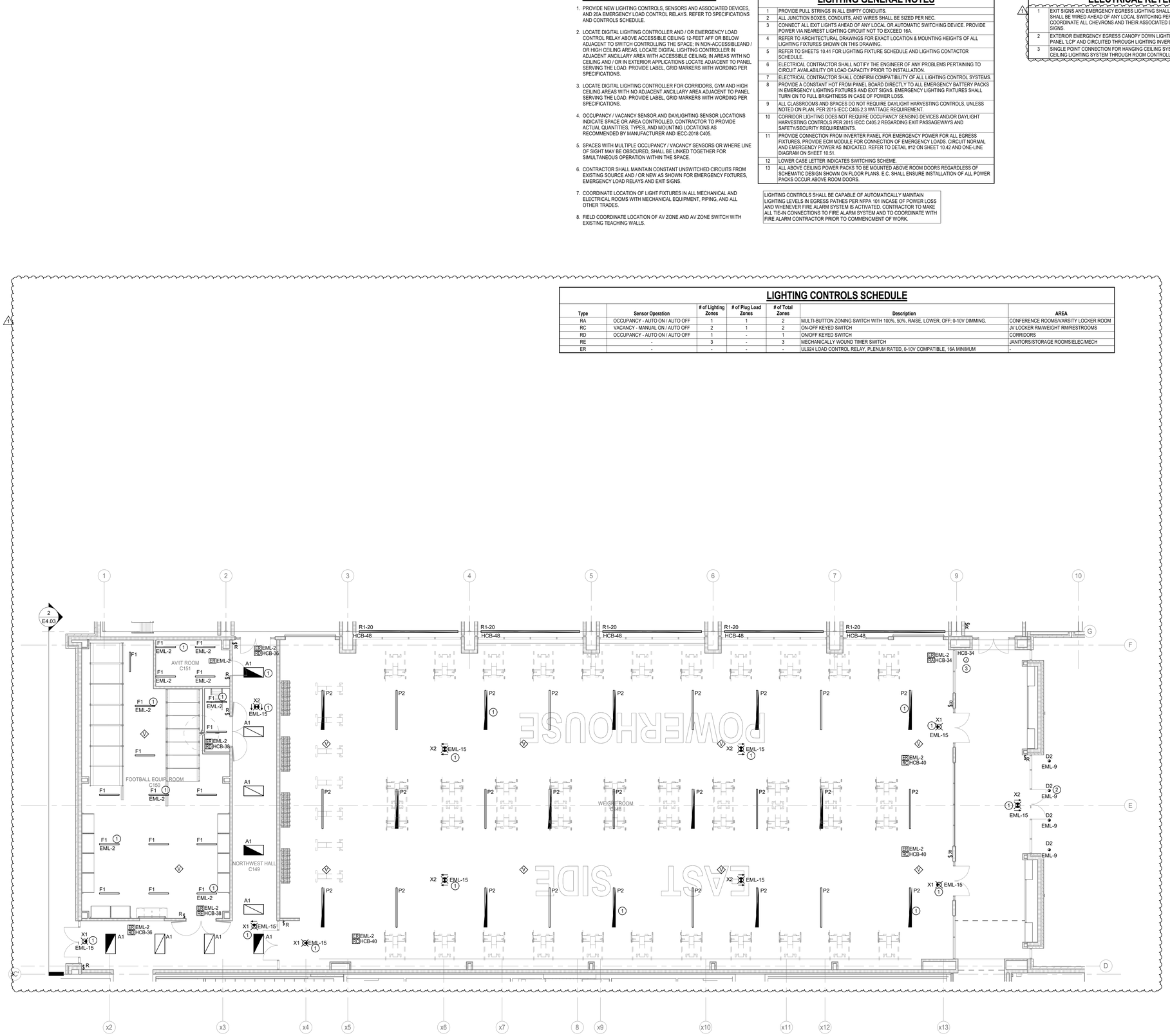
LIGHTING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY MAINTAIN LIGHTING LEVELS IN EGRESS PATHES PER NFPA 101 INCASE OF POWER LOSS AND WHENEVER FIRE ALARM SYSTEM IS ACTIVATED. CONTRACTOR TO MAKE ALL TIE-IN CONNECTIONS TO FIRE ALARM SYSTEM AND TO COORDINATE WITH FIRE ALARM CONTRACTOR PRIOR TO COMMENCMENT OF WORK.

ELECTRICAL KEYED NOTES

1	EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED TO LIGHTING INVERTER AND SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING PER NEC. CONTRACTOR SHALL VERIFY AND COORDINATE ALL CHEVRONS AND THEIR ASSOCIATED DIRECTIONS PRIOR TO PURCHASE OF EXIT SIGNS.
2	EXTERIOR EMERGENCY EGRESS CANOPY DOWN LIGHTING TO BE ROUTED VIA LIGHTING CONTROL PANEL 'LCP' AND CIRCUITED THROUGH LIGHTING INVERTER.
3	SINGLE POINT CONNECTION FOR HANGING CEILING SYSTEM WITH PERIMETER LIGHTING. ROUTE CEILING LIGHTING SYSTEM THROUGH ROOM CONTROLLER 'RC' AND CIRCUIT AS INDICATED.

LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description	AREA
RA	OCCUPANCY - AUTO ON / AUTO OFF	1	1	2	MULTI-BUTTON ZONING SWITCH WITH 100%, 50%, RAISE, LOWER, OFF; 0-10V DIMMING.	CONFERENCE ROOMS/VARSITY LOCKER ROOM
RC	VACANCY - MANUAL ON / AUTO OFF	2	1	2	ON-OFF KEYED SWITCH	JV LOCKER RM/WEIGHT RM/RESTROOMS
RD	OCCUPANCY - AUTO ON / AUTO OFF	1	-	1	ON/OFF KEYED SWITCH	CORRIDORS
RE	-	3	-	3	MECHANICALLY WOUND TIMER SWITCH	JANITORS/STORAGE ROOMS/ELEC/MECH
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM	-



N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL ONE - UNIT B**
Scale: 1/8" = 1'-0"

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GALENA PARK ISD
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North Shore Multi-Use Indoor Facility

BRADLEY KALMANS 80219 LICENSED ARCHITECT
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

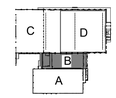
Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT B

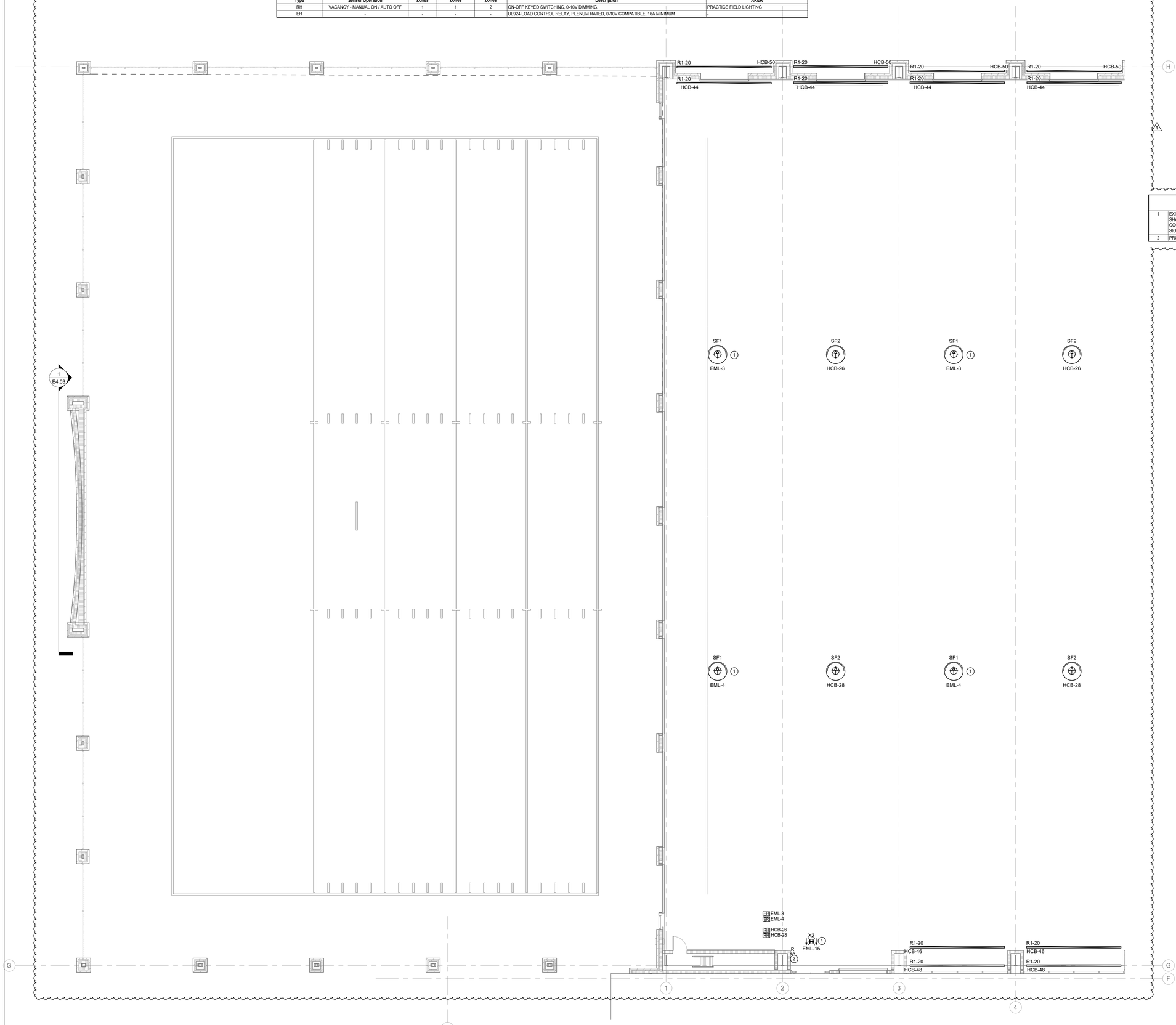
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LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description	AREA
RH	VACANCY - MANUAL ON / AUTO OFF	1	1	2	ON-OFF KEYED SWITCHING, 0-10V DIMMING.	PRACTICE FIELD LIGHTING
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM	-



1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL ONE - UNIT C**
Scale: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

1. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS. REFER TO SPECIFICATIONS AND CONTROLS SCHEDULE.
2. 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-ACCESSIBLEAND / 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 LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
3. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
4. OCCUPANCY / VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2018 C405.
5. SPACES WITH MULTIPLE OCCUPANCY / VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND / OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS AND EXIT SIGNS.
7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
8. FIELD COORDINATE LOCATION OF AV ZONE AND AV ZONE SWITCH WITH EXISTING TEACHING WALLS.

ELECTRICAL KEYED NOTES

1	EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED TO LIGHTING INVERTER AND SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING PER NEC. CONTRACTOR SHALL VERIFY AND COORDINATE ALL CHEVRONS AND THEIR ASSOCIATED DIRECTIONS PRIOR TO PURCHASE OF EXIT SIGNS.
2	PROVIDE ONE SWITCH TO CONTROLLER 'RH' FOR FIELD LIGHTING CONTROL.

LIGHTING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY MAINTAIN LIGHTING LEVELS IN EGRESS PATHES PER NFPA 101 INCASE OF POWER LOSS AND WHENEVER FIRE ALARM SYSTEM IS ACTIVATED. CONTRACTOR TO MAKE ALL TIE-IN CONNECTIONS TO FIRE ALARM SYSTEM AND TO COORDINATE WITH FIRE ALARM CONTRACTOR PRIOR TO COMMENCMENT OF WORK.

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

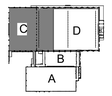
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1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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25-0056.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT C

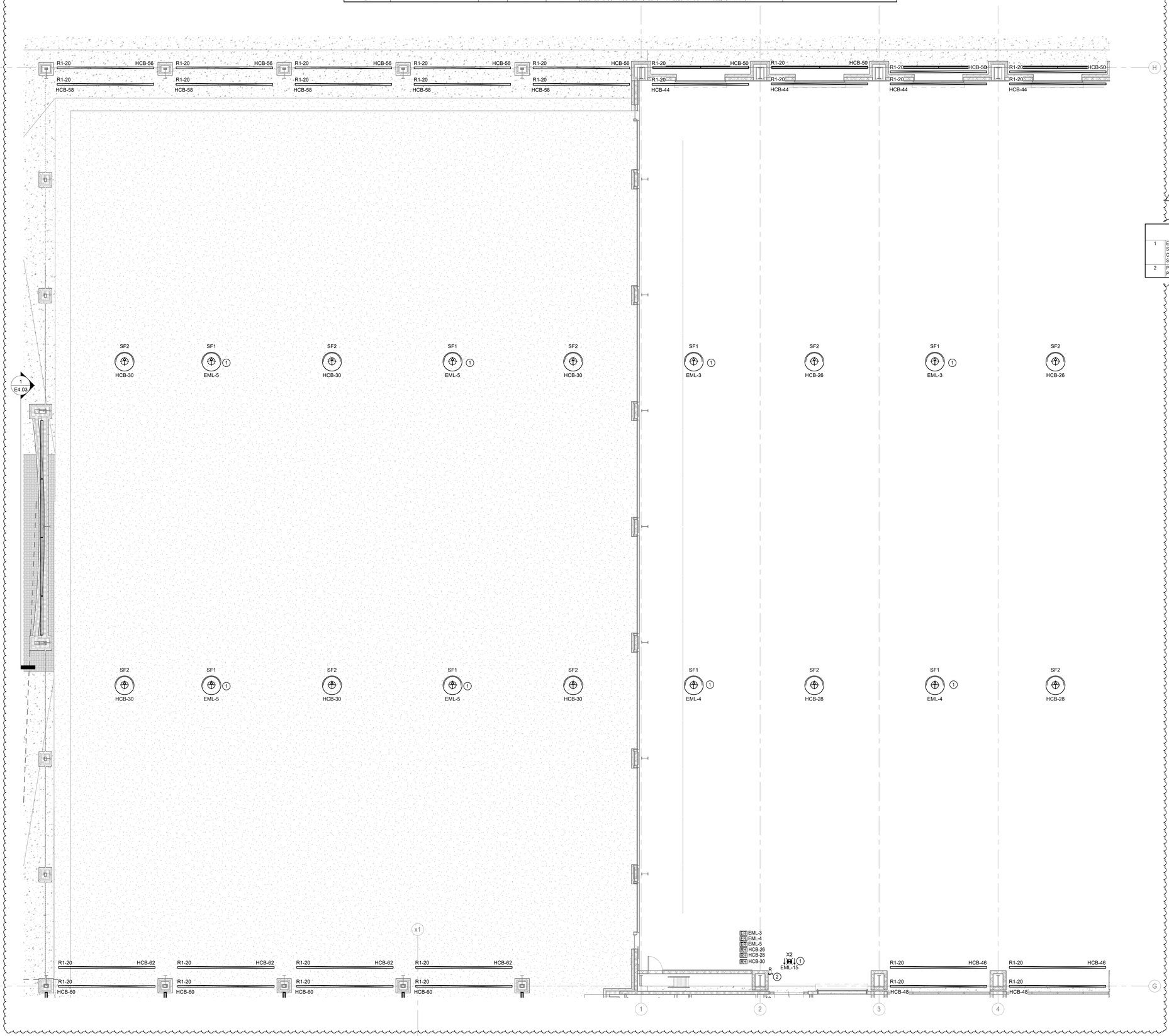
SHEET NO.
E2.04C



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LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description	AREA
RH	VACANCY - MANUAL ON / AUTO OFF	1	1	2	ON-OFF KEYED SWITCHING, 0-10V DIMMING.	PRACTICE FIELD LIGHTING
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM	-



ELECTRICAL GENERAL NOTES

1. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS. REFER TO SPECIFICATIONS AND CONTROLS SCHEDULE.
2. 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-ACCESSIBLEAND / 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 LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
3. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
4. OCCUPANCY / VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED, CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2018 C405.
5. SPACES WITH MULTIPLE OCCUPANCY / VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
6. CONTRACTOR SHALL MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND / OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS AND EXIT SIGNS.
7. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
8. FIELD COORDINATE LOCATION OF AV ZONE AND AV ZONE SWITCH WITH EXISTING TEACHING WALLS.

ELECTRICAL KEYED NOTES

1	EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED TO LIGHTING INVERTER AND SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING PER NEC. CONTRACTOR SHALL VERIFY AND COORDINATE ALL CHEVRONS AND THEIR ASSOCIATED DIRECTIONS PRIOR TO PURCHASE OF EXIT SIGNS.
2	PROVIDE ONE SWITCH TO CONTROLLER 'RH' FOR FIELD LIGHTING CONTROL. ADDITIONAL POWER PACKS WILL BE TIED INTO WALL SWITCH WHEN PRACTICE FIELD IS FULLY ENCLOSED.

LIGHTING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY MAINTAIN LIGHTING LEVELS IN EGRESS PATHES PER NFPA 101 INCASE OF POWER LOSS AND WHENEVER FIRE ALARM SYSTEM IS ACTIVATED. CONTRACTOR TO MAKE ALL TIE-IN CONNECTIONS TO FIRE ALARM SYSTEM AND TO COORDINATE WITH FIRE ALARM CONTRACTOR PRIOR TO COMMENCMENT OF WORK.

N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE**
Scale: 1/8" = 1'-0"

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Salas O'Brien Project Number: 2550-01455-00

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10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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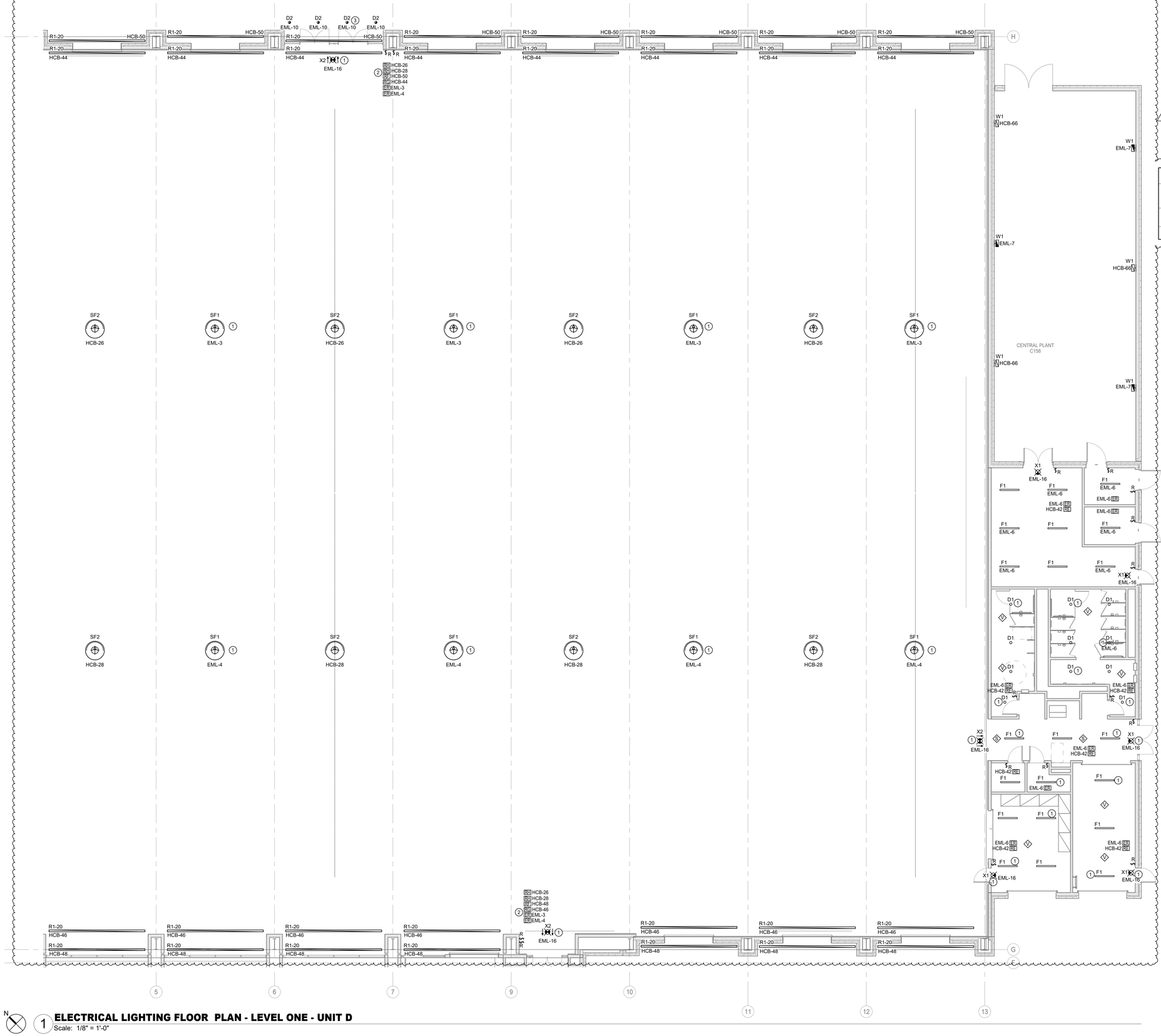
SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT C - ALTERNATE

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E2.04C.1

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LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description	AREA
RE	-	3	-	3	MECHANICALLY WOUND TIMER SWITCH	JANITORS/STORAGE ROOMS/ELEC/MECH
RF	-	2	-	2	ON-OFF SWITCHING, 0-10V DIMMING, RGBW COLOR SELECTION	EXTERIOR DOOR ACCENT LIGHTING
RG	-	2	-	2	ON-OFF SWITCHING, 0-10V DIMMING, RGBW COLOR SELECTION	UPPER WINDOW BACK-LIGHTING
RH	VACANCY - MANUAL ON / AUTO OFF	1	1	2	ON-OFF KEYED SWITCHING, 0-10V DIMMING.	PRACTICE FIELD LIGHTING
ER	-	-	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM	-



ELECTRICAL GENERAL NOTES

1. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, AND 20A EMERGENCY LOAD CONTROL RELAYS. REFER TO SPECIFICATIONS AND CONTROLS SCHEDULE.
2. 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-ACCESSIBLEAND / 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 LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
3. LOCATE DIGITAL LIGHTING CONTROLLER FOR CORRIDORS, GYM AND HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO PANEL SERVING THE LOAD. PROVIDE LABEL, GRID MARKERS WITH WORDING PER SPECIFICATIONS.
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8. FIELD COORDINATE LOCATION OF AV ZONE AND AV ZONE SWITCH WITH EXISTING TEACHING WALLS.

ELECTRICAL KEYED NOTES

1	EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED TO LIGHTING INVERTER AND SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING PER NEC. CONTRACTOR SHALL VERIFY AND COORDINATE ALL CHEVRONS AND THEIR ASSOCIATED DIRECTIONS PRIOR TO PURCHASE OF EXIT SIGNS.
2	PROVIDE TWO SWITCHES. ONE TIED TO CONTROLLER 'RH' FOR FIELD LIGHTING CONTROL AND ONE SWITCH TIED TO CONTROLLERS 'RF' AND 'RG' FOR EXTERIOR ACCENT LIGHTING AND INTERIOR UPPER WINDOW BACK-LIGHTING.
3	EXTERIOR EMERGENCY EGRESS CANOPY DOWN LIGHTING TO BE ROUTED VIA LIGHTING CONTROL PANEL 'LCP' AND CIRCUITED THROUGH LIGHTING INVERTER..

LIGHTING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY MAINTAIN LIGHTING LEVELS IN EGRESS PATHES PER NFPA 101 INCASE OF POWER LOSS AND WHENEVER FIRE ALARM SYSTEM IS ACTIVATED. CONTRACTOR TO MAKE ALL TIE-IN CONNECTIONS TO FIRE ALARM SYSTEM AND TO COORDINATE WITH FIRE ALARM CONTRACTOR PRIOR TO COMMENCMENT OF WORK.

N

1 **ELECTRICAL LIGHTING FLOOR PLAN - LEVEL ONE - UNIT D**
Scale: 1/8" = 1'-0"

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
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North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — 80219 — LICENSED — 10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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ELECTRICAL LIGHTING PLAN - LEVEL ONE - UNIT D

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E2.05D

C D B A

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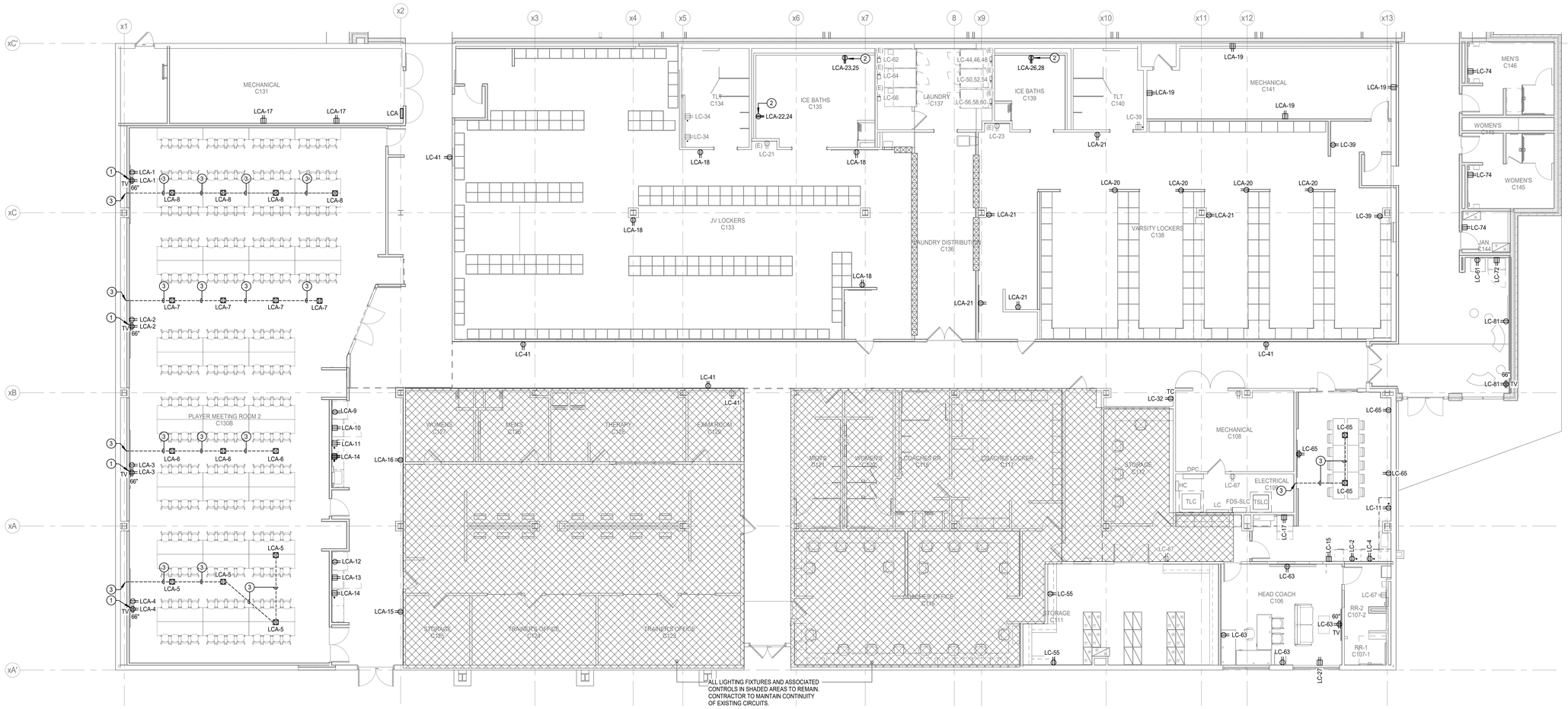
LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	- - - - - - - -
NEW WORK	———

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

1	DUPLEX RECEPTACLE FOR MONITOR AND GENERAL PURPOSE RECEPTACLE TO BE PROVIDED WITH PRE-MANUFACTURED WALL PANELS. CONTRACTOR TO TIE INTO ELECTRICAL WHIPS PROVIDED WITH WALL SECTIONS AND CONNECT TO CIRCUIT AS INDICATED. REFER TO T-SERIES DRAWINGS FOR DATA DROPS ASSOCIATED WITH MONITORS.
2	NEMA-14-30L 250V RECEPTACLE FOR THERAPY TUB. PROVIDE 3-#10, #10G IN 3/4"C AND CIRCUIT AS INDICATED. VERIFY RECEPTACLE NEMA RATING WITH MANUFACTURER'S REQUIREMENTS PRIOR TO PURCHASE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
3	FLOOR MOUNTED RECESSED COMBINATION DUPLEX RECEPTACLE/PHONE/DATA OUTLET AND CIRCUIT AS INDICATED. PROVIDE ONE (1) 1" CONDUIT FOR POWER AND ONE (1) 1-1/2" CONDUIT FOR DATA & A/V. BOTH CONDUITS TO BE PROVIDED WITH PULL-WIRES. CONTRACTOR TO ROUTE CONDUITS UNDER SLAB TO WALL WITH VIDEO MONITORS AND TURN AS REQUIRED. VERIFY WITH AUDIO VISUAL CONSULTANT FOR EXACT TYPE/SIZE/MANUFACTURER OF OUTLET PRIOR TO BID AND INSTALLATION. VERIFY EXACT MOUNTING LOCATION IN FLOOR WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN AND INSTALLATION. REFER TO T-SERIES DRAWINGS FOR AUDIO/VISUAL/DATA DROPS ASSOCIATED WITH FLOOR BOX.



N

1 **ELECTRICAL POWER FLOOR PLAN - LEVEL ONE - UNIT A**
Scale: 1/8" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — 80219 — LICENSED — CENSE — 10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL ONE - UNIT A

SHEET NO.
E3.02A

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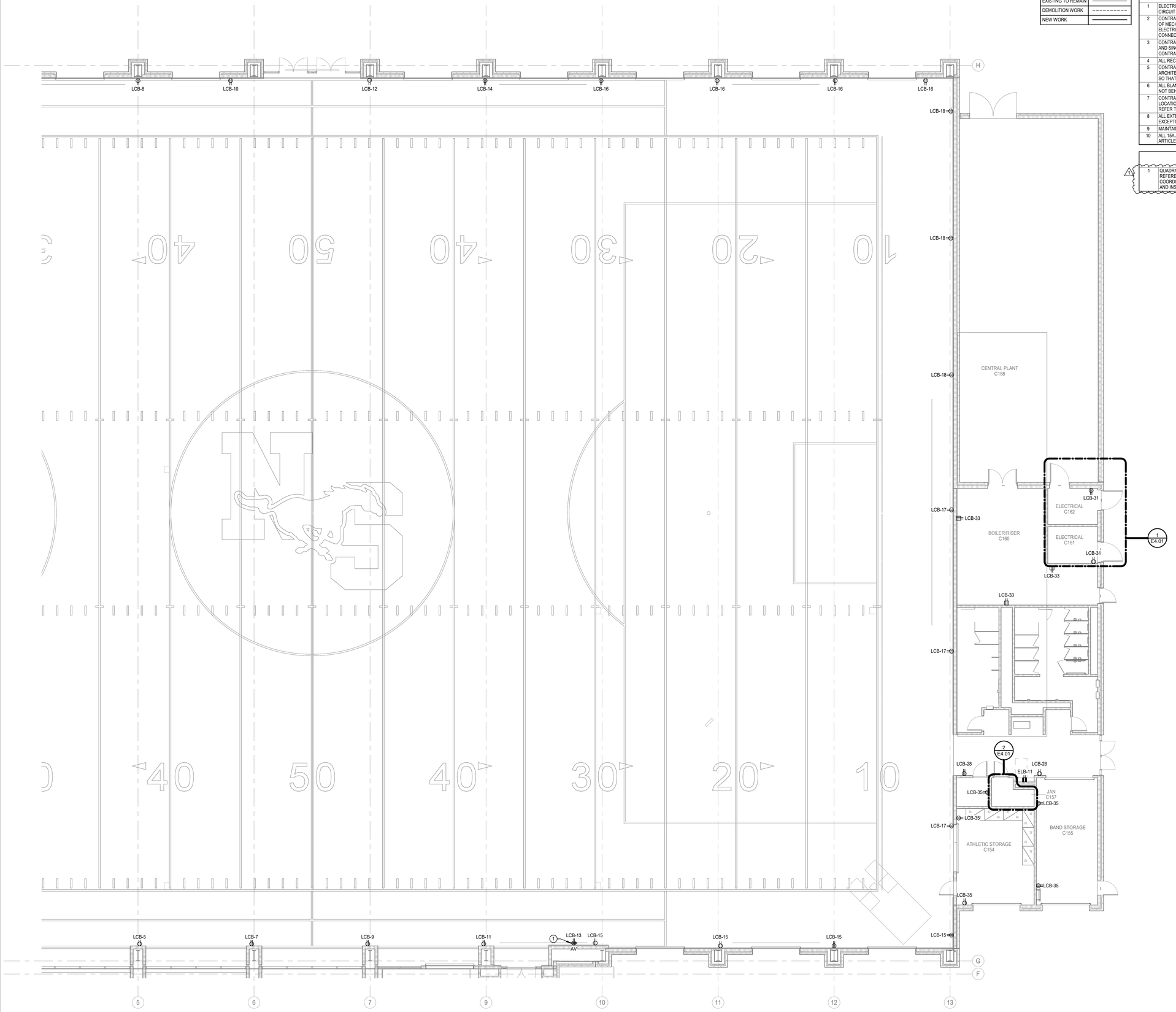
LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	- - - - - -
NEW WORK	———

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

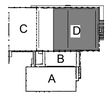
1	QUADRAPLEX RECEPTACLE TO AUDIO/VISUAL EQUIPMENT RACK AND CIRCUIT AS INDICATED. REFERENCE T-SERIES DRAWINGS FOR ALL AUDIO/VISUAL SYSTEM POWER REQUIREMENTS. COORDINATE ALL POWER REQUIREMENTS WITH AUDIO/VISUAL CONSULTANT PRIOR TO ROUGH-IN AND INSTALLATION.



N

1 **ELECTRICAL POWER FLOOR PLAN - LEVEL ONE - UNIT D**

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



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10.08.2025

ISSUED: OCTOBER 1, 2025

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Designer	Designer
Drawn By	Author

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SHEET TITLE

ELECTRICAL POWER PLAN - LEVEL ONE - UNIT D

SHEET NO.

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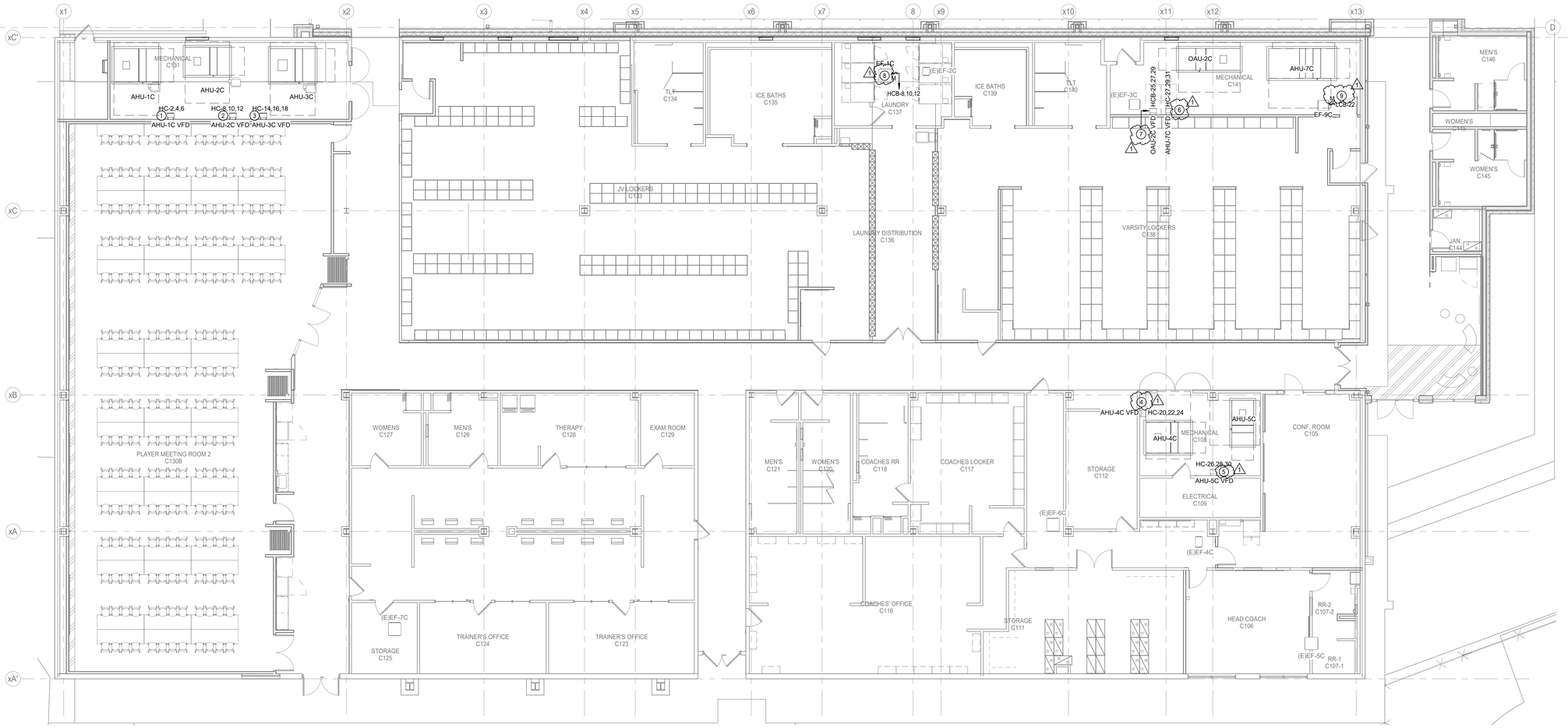
LINETYPE LEGEND	
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NEW WORK	———

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5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

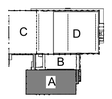
1	CONNECTION TO AIR HANDLER UNIT, AHU-1C, VIA VARIABLE FREQUENCY DRIVE , AHU-1C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION..
2	CONNECTION TO AIR HANDLER UNIT, AHU-1C, VIA VARIABLE FREQUENCY DRIVE , AHU-1C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION..
3	CONNECTION TO AIR HANDLER UNIT, AHU-3C, VIA VARIABLE FREQUENCY DRIVE , AHU-3C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION..
4	CONNECTION TO AIR HANDLER UNIT, AHU-4C, VIA VARIABLE FREQUENCY DRIVE , AHU-4C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
5	CONNECTION TO AIR HANDLER UNIT, AHU-5C, VIA VARIABLE FREQUENCY DRIVE , AHU-5C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
6	CONNECTION TO AIR HANDLER UNIT, AHU-7C, VIA VARIABLE FREQUENCY DRIVE , AHU-7C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
7	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAU-2C, VIA VARIABLE FREQUENCY DRIVE , OAU-2C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
8	CONNECTION TO EXHAUST FAN, EF-1C, AND CIRCUIT AS SHOWN. PROVIDE 600V, 3-POLE 20A MOTOR-RATED SWITCH IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCH. DIV.26 TO FURNISH AND INSTALL DISCONNECT SWITCH. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS.
9	CONNECTION TO EXHAUST FAN, EF-9C, AND CIRCUIT AS SHOWN. PROVIDE 120V, SINGE POLE 20A MOTOR-RATED SWITCH IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCH. FURNISH AND INSTALL DISCONNECT SWITCH BY DIV. 26. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS.



N

1 **ELECTRICAL EQUIPMENT FLOOR PLAN - LEVEL ONE - UNIT A**

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



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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER 10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT A

SHEET NO.

E3.07A

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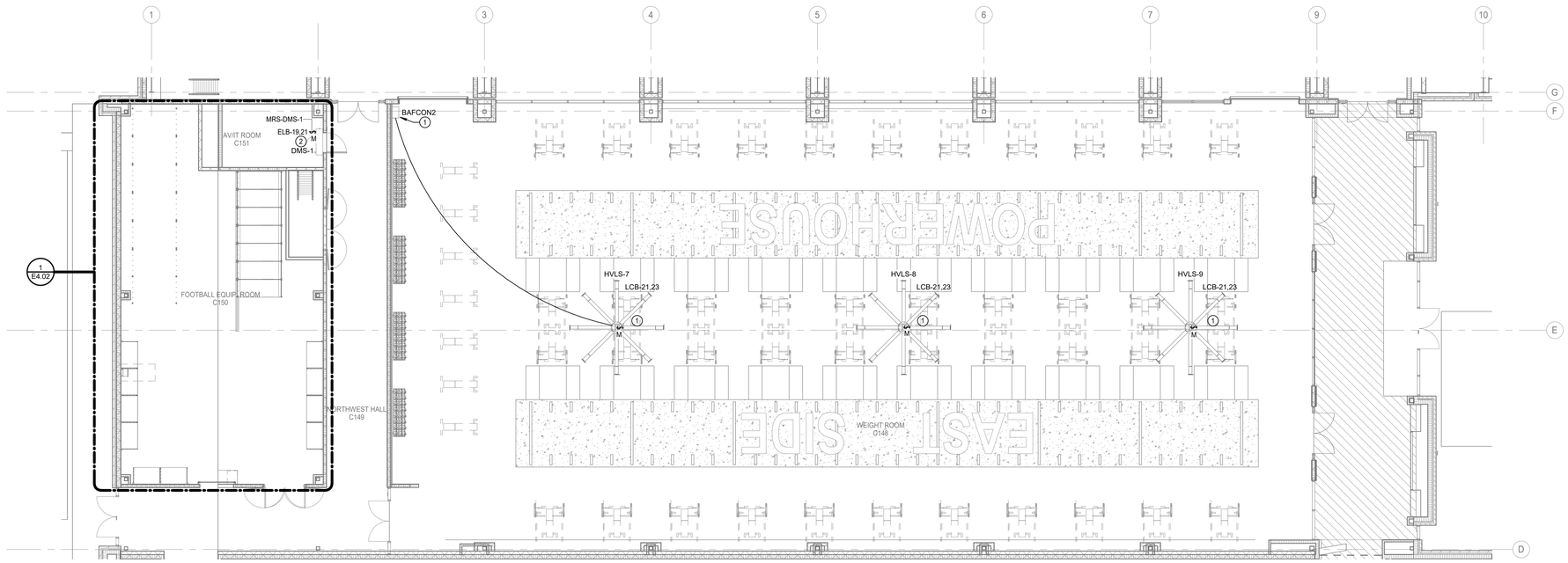
LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	- - - - - - - -
NEW WORK	———

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

1	1	CONNECTION TO HIGH VELOCITY LOW SPEED FANS, HVLS-7, HVLS-8, AND HVLS-9, AND CIRCUIT AS SHOWN. PROVIDE 208V, 2-POLE 20A MOTOR-RATED SWITCHES IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCHES AT EACH FAN. FURNISH AND INSTALL DISCONNECT SWITCH BY DIV. 26 COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS TO BAFCON CONTROLLER.
	2	CONNECTION TO MIN-SPLIT FAN COIL UNIT, DMS-1, AND CIRCUIT AS SHOWN. PROVIDE 208V, 2-POLE, 20A MOTOR-RATED SWITCH IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCH. DIV. 26 TO FURNISH AND INSTALL DISCONNECT SWITCH. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS WITH REMOTE CONDENSING UNIT.



N

1 ELECTRICAL EQUIPMENT FLOOR PLAN - LEVEL ONE - UNIT B

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

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

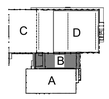
25-0056.00

SHEET TITLE

ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT B

SHEET NO.

E3.08B



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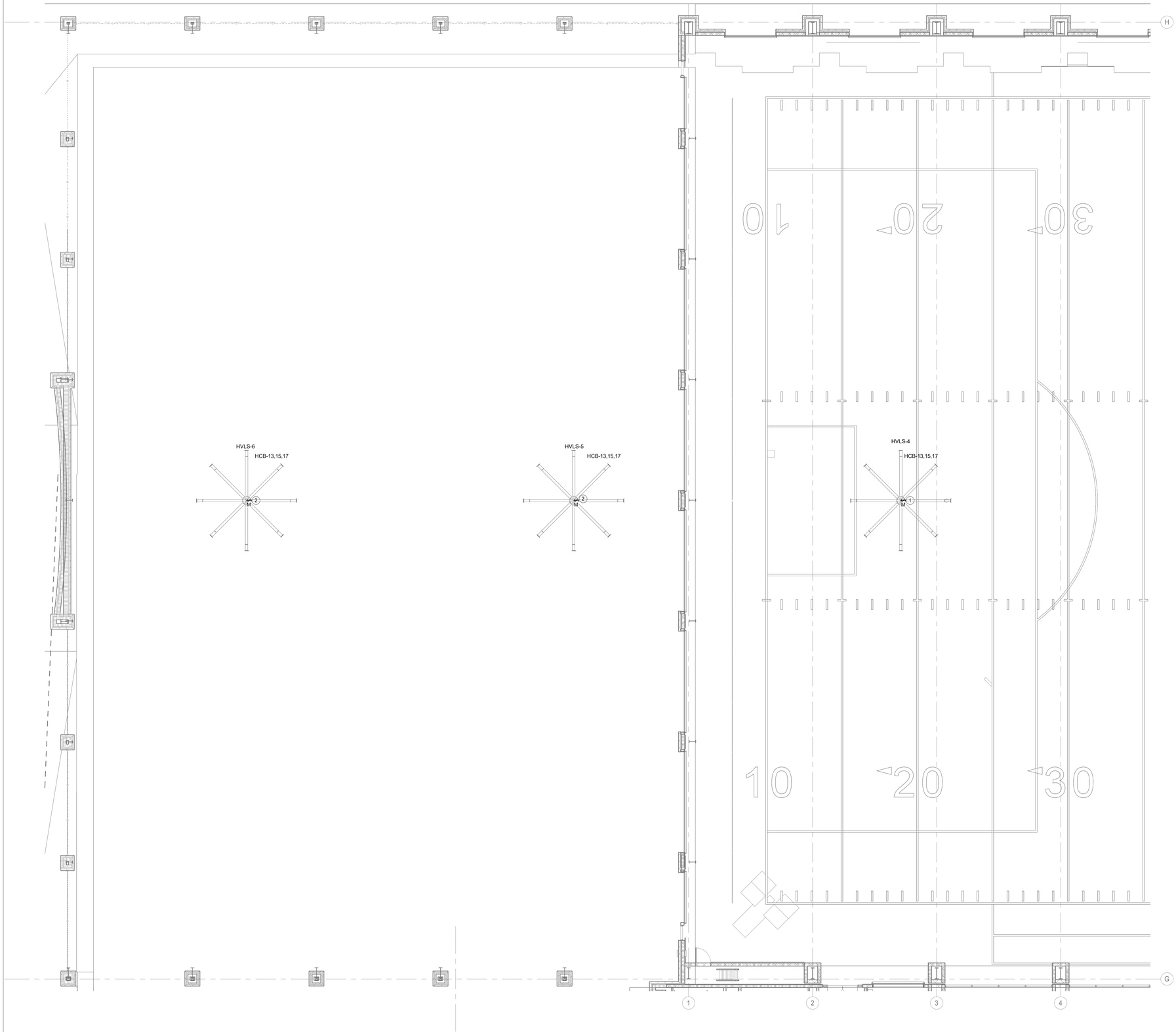
LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	- - - - - - - -
NEW WORK	———

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

1	CONNECTION TO HIGH VELOCITY LOW SPEED FANS, HVLS-1, HVLS-2, HVLS-3, AND HVLS-4, AND CIRCUIT AS SHOWN. PROVIDE 600V, 3-POLE 20A MOTOR-RATED SWITCHES IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCHES AT EACH FAN. FURNISH AND INSTALL DISCONNECT SWITCH BY DIV. 26. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS TO BAFCON1 CONTROLLER.
2	CONNECTION TO HIGH VELOCITY LOW SPEED FANS, HVLS-5 AND HVLS-6, AND CIRCUIT AS SHOWN. PROVIDE 600V, 3-POLE 20A MOTOR-RATED SWITCHES IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCHES AT EACH FAN. FURNISH AND INSTALL DISCONNECT SWITCH BY DIV. 26. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS TO BAFCON1 CONTROLLER. HVLS-5 & 6 ARE TO BE INSTALLED ONLY IF BUILDING IS EXTENDED TO INCLUDE ENTIRE FIELD.



N

1 **ELECTRICAL EQUIPMENT FLOOR PLAN - LEVEL ONE - UNIT C - ALTERNATE**
Scale: 1/8" = 1'-0"

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North Shore Multi-Use Indoor Facility

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STATE OF TEXAS
10.08.2025

ISSUED: OCTOBER 08, 2025

REVISIONS

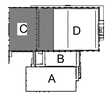
Revision No.	Revision Date

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT C - ALTERNATE

SHEET NO.
E3.09C.1



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LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	- - - - - -
NEW WORK	———

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

1	CONNECTION TO HIGH VELOCITY LOW SPEED FANS, HVLS-5 AND HVLS-6, AND CIRCUIT AS SHOWN. PROVIDE 600V, 3-POLE 20A MOTOR-RATED SWITCHES IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCHES AT EACH FAN. FURNISH AND INSTALL DISCONNECT SWITCH BY DIV. 26. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS TO BAFCON1 CONTROLLER. HVLS-5 & 6 ARE TO BE INSTALLED ONLY IF BUILDING IS EXTENDED TO INCLUDE ENTIRE FIELD.
2	CONNECTION TO EXHAUST FAN, EF-10C, AND CIRCUIT AS SHOWN. PROVIDE 600V, 3-POLE 20A MOTOR-RATED SWITCH IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCH. DIV.26 TO FURNISH AND INSTALL DISCONNECT SWITCH. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS.
3	CONNECTION TO MINI-SPLIT FAN COIL UNIT, DMS-2, AND CIRCUIT AS SHOWN. PROVIDE 208V, 2-POLE, 20A MOTOR-RATED SWITCH IN NEMA-1 ENCLOSURE TO SERVE AS DISCONNECT SWITCH. DIV. 26 TO FURNISH AND INSTALL DISCONNECT SWITCH. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS WITH REMOTE CONDENSING UNIT.
4	CONNECTION TO AIR-COOLED CHILLER, ACC-1, AND CIRCUIT AS SHOWN. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. PROVIDE 600V, 800A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 1600A RF<<1 OR S>> FUSES. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
5	CONNECTION TO AIR-COOLED CHILLER, ACC-2, AND CIRCUIT AS SHOWN. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. PROVIDE 600V, 800A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 1500A RF<<1 OR S>> FUSES. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.

HVLS-3
HCB-13,15,17
HVLS-2
HCB-13,15,17
HVLS-1
HCB-13,15,17
ACC-2
MSB-C3-2
ACC-2
CENTRAL PLANT
C158
ACC-1
EHB-1
ACC-1
2
E4.02
3
E4.02
DMS-2
MRS-DMS-2
E3.03,E3.04
EF-10C
HCB-20,22,24
BAFCON1
5
6
7
9
10
11
12
13
G
F
H

N

1 **ELECTRICAL EQUIPMENT FLOOR PLAN - LEVEL ONE - UNIT D**
Scale: 1/8" = 1'-0"

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Salas O'Brien Project Number: 2550-01455-00

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STATE OF TEXAS
BRADLEY KALMANS
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LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL EQUIPMENT PLAN - LEVEL ONE - UNIT D

SHEET NO.
E3.10D

C D B A

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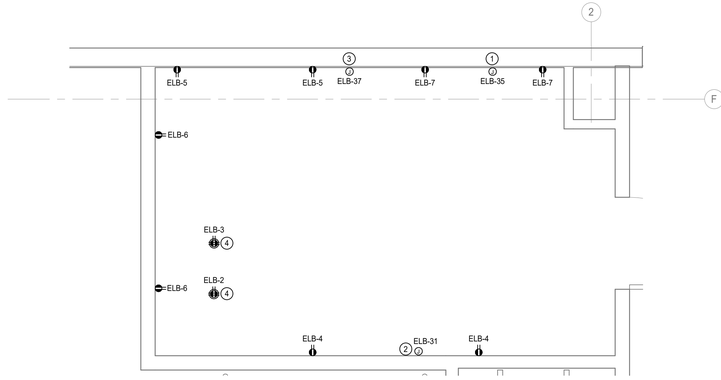
LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	– – – – – –
NEW WORK	———

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

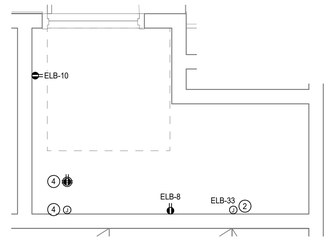
1	120V CONNECTION FOR FIRE ALARM CONTROL PANEL, FACP, AND CIRCUIT AS INDICATED REFERENCE T-SERIES DRAWINGS FOR COORDINATION OF MOUNTING LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
2	120V CONNECTION FOR IDP/ACP PANEL AND CIRCUIT AS INDICATED. REFERENCE T-SERIES DRAWINGS FOR COORDINATION OF MOUNTING LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
3	120V CONNECTION FOR FUTURE ERRCS PANEL AND CIRCUIT AS INDICATED. REFERENCE T-SERIES DRAWINGS FOR COORDINATION OF MOUNTING LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
4	QUAD RECEPTACLES FOR IT RACKS AND CIRCUIT AS SHOWN. ONE CONDUIT PER OUTLET BOX. COORDINATE WITH IT CONSULTANT AND T-SERIES DRAWINGS FOR EXACT MOUNTING LOCATION ON RACK PRIOR TO ROUGH-IN AND INSTALLATION.
5	UNDERGROUND SERVICE ENTRANCE FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM SECONDARY TAPS OF UTILITY TRANSFORMER TO MAIN SWITCHBOARD MSB-CB IN MAIN ELECTRICAL ROOM VIA CONCRETE ENCASED DUCT-BANK. REFER TO FEEDER SCHEDULE, SHEET E5.01.
6	OVERHEARD RGS CONDUITS AND ASSOCIATED FEEDERS FROM MAIN SWITCHBOARD MSB-CB TO AUTOMATIC TRANSFER SWITCH, ATS-CB, 'NORMAL' LUGS. REFER TO FEEDER SCHEDULE, SHEET E5.01.
7	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM AUTOMATIC TRANSFER SWITCH, ATS-CB, 'LOAD' LUGS TO MANUAL TRANSFER SWITCH, MTS-CB, 'NORMAL' LUGS VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET E5.01.
8	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH, ATS-CB, 'EMERGENCY' LUGS VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO ROUTE CONDUITS AND FEEDERS VIA EMERGENCY ELECTRICAL ROOM IN PULL BOX TO MAKE TRANSITION TO ABOVE GROUND. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET E5.01.
9	UNDERGROUND FEEDERS IN SCHEDULE 40 PVC CONDUITS FROM MANUAL TRANSFER SWITCH, MTS-CB, 'LOAD' LUGS TO EMERGENCY PANEL 'EHC' VIA CONCRETE ENCASED DUCT-BANK. CONTRACTOR TO ROUTE CONDUITS AND FEEDERS VIA EMERGENCY ELECTRICAL ROOM IN PULL BOX TO MAKE TRANSITION TO ABOVE GROUND. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS TO ENSURE DUCT-BANK DEPTH PASSES UNDER STRUCTURAL BEAMS UNDERGROUND. REFER TO FEEDER SCHEDULE, SHEET E5.01.



N

3 ENLARGED POWER PLAN - AV/IT ROOM - AREA B

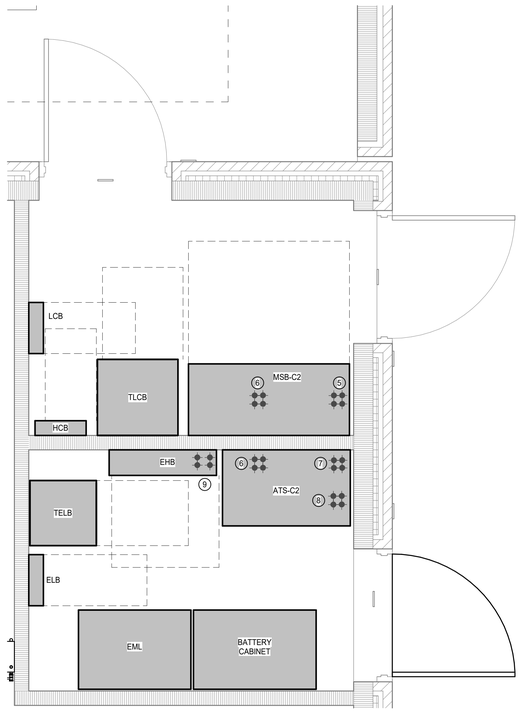
Scale: 1/2" = 1'-0"



N

2 ENLARGED POWER FLOOR PLAN - IDF ROOM C158

Scale: 1/2" = 1'-0"



N

1 ENLARGED POWER PLAN - ELECTRICAL ROOM - LEVEL ONE - UNIT D

Scale: 1/2" = 1'-0"

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GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — 80219 — LICENSED — PROFESSIONAL ENGINEER — STATE OF TEXAS

10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

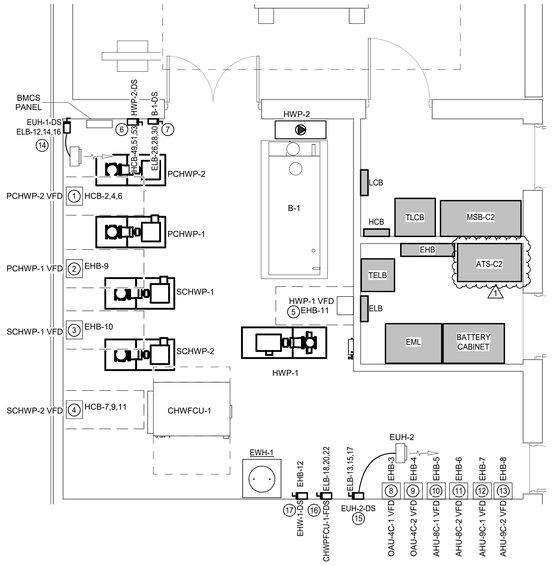
ELECTRICAL ENLARGED PLANS

SHEET NO.

E4.01

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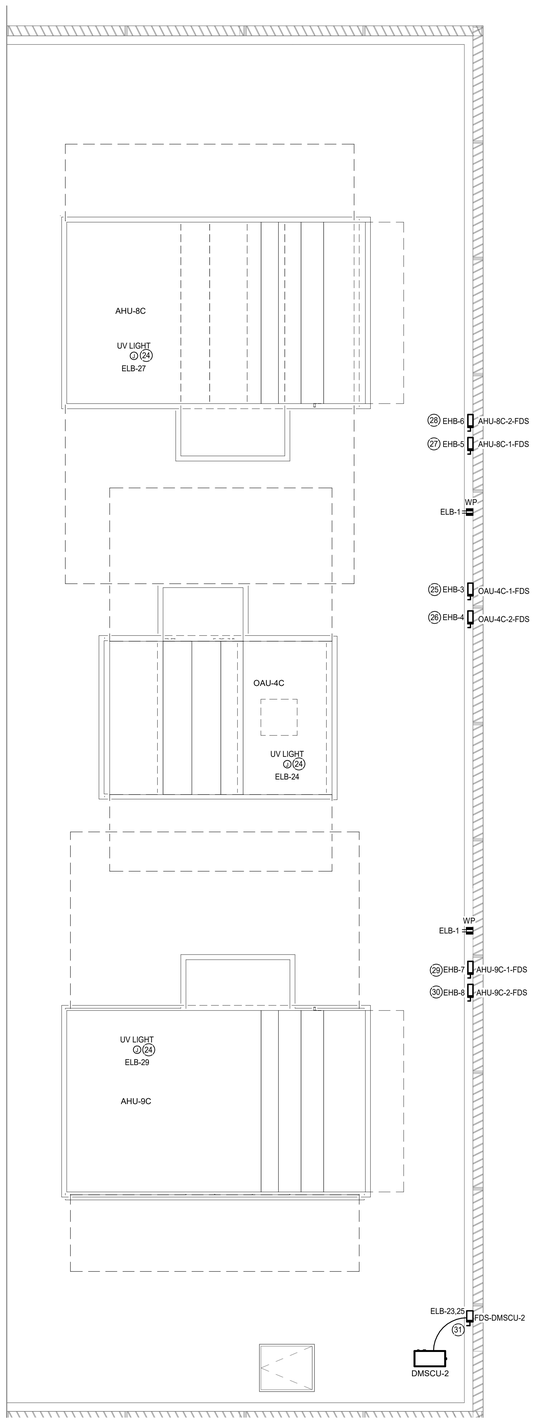
LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	– – – – – –
NEW WORK	———



N

2 ENLARGED EQUIPMENT PLAN - BOILER/RISER RM C164 - UNIT D

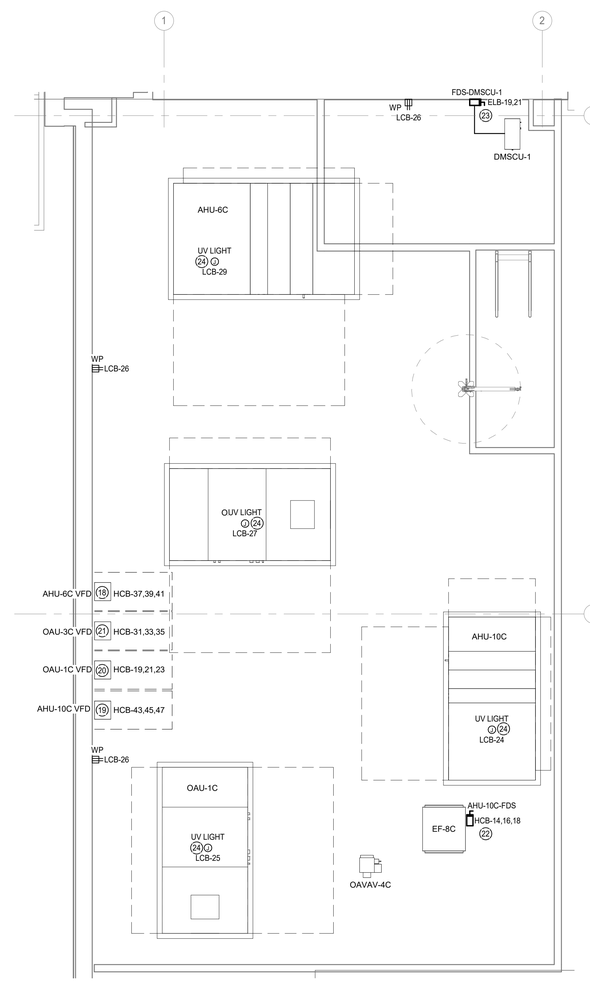
Scale: 1/4" = 1'-0"



N

3 ENLARGED EQUIPMENT PLAN - MECHANICAL MEZZANINE - UNIT D

Scale: 1/4" = 1'-0"



N

1 ENLARGED EQUIPMENT PLAN - MECHANICAL MEZZANINE - UNIT B

Scale: 1/4" = 1'-0"

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.
9	MAINTAIN THE CONTINUITY OF CIRCUITS TO ALL EXISTING LOADS TO REMAIN.
10	ALL 15A AND 20A, 120V AND 208V NON-LOCKING TYPE RECEPTACLES IN AREAS SPECIFIED IN NEC ARTICLE 406.12 SHALL BE LISTED AS TAMPER-RESISTANT.

ELECTRICAL KEYED NOTES

1	CONNECTION TO CHILLED WATER PRIMARY PUMP. PCHWP-1, VIA VARIABLE FREQUENCY DRIVE , PCHWP-1-VFD, AND CIRCUIT AS SHOWN. PROVIDE VFD WITH INTEGRAL DISCONNECT TO BE FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
2	CONNECTION TO CHILLED WATER PRIMARY PUMP. PCHWP-2, VIA VARIABLE FREQUENCY DRIVE , PCHWP-2-VFD, AND CIRCUIT AS SHOWN. PROVIDE VFD WITH INTEGRAL DISCONNECT TO BE FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
3	CONNECTION TO CHILLED WATER SECONDARY PUMP, SCHWP-1, VIA VARIABLE FREQUENCY DRIVE , SCHWP-1-VFD, AND CIRCUIT AS SHOWN. PROVIDE VFD WITH INTEGRAL DISCONNECT TO BE FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
4	CONNECTION TO CHILLED WATER SECONDARY PUMP, SCHWP-2, VIA VARIABLE FREQUENCY DRIVE , SCHWP-2-VFD, AND CIRCUIT AS SHOWN. PROVIDE VFD WITH INTEGRAL DISCONNECT TO BE FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
5	CONNECTION TO HOT WATER PUMP, HWP-1, VIA VARIABLE FREQUENCY DRIVE , HWP-1-VFD, AND CIRCUIT AS SHOWN. PROVIDE VFD WITH INTEGRAL DISCONNECT TO BE FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
6	CONNECTION TO HOT WATER PUMP, HWP-2 AND CIRCUIT AS SHOWN. PROVIDE 250V, 30A, 3P, NEMA-1 NON-FUSIBLE DISCONNECT SWITCH. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS.
7	CONNECTION TO BOILER, B-1 AND CIRCUIT AS SHOWN. PROVIDE 600V, 30A, 3P, NEMA-1 NON-FUSIBLE DISCONNECT SWITCH. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE WITH DIV.23 FOR INTERLOCKING WIRING REQUIREMENTS.
8	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAU-4C-1, VIA VARIABLE FREQUENCY DRIVE , OAU-4C-1-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
9	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAU-4C-2, VIA VARIABLE FREQUENCY DRIVE , OAU-4C-2-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
10	CONNECTION TO AIR HANDLER UNIT, AHU-8C-1, VIA VARIABLE FREQUENCY DRIVE , AHU-8C-1-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
11	CONNECTION TO AIR HANDLER UNIT, AHU-8C-2, VIA VARIABLE FREQUENCY DRIVE , AHU-8C-2-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
12	CONNECTION TO AIR HANDLER UNIT, AHU-9C-1, VIA VARIABLE FREQUENCY DRIVE , AHU-9C-1-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
13	CONNECTION TO AIR HANDLER UNIT, AHU-9C-2, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 70A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
14	CONNECTION TO ELECTRIC UNIT HEATER, EUH-1, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA 3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 20A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26.
15	CONNECTION TO ELECTRIC UNIT HEATER, EUH-2, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA 3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 20A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26.
16	CONNECTION TO CHILLED WATER FAN COIL UNIT, CWHFCU-1, AND CIRCUIT AS SHOWN. PROVIDE 250V, 30A, 3P, 3F, NEMA 1 FUSIBLE DISCONNECT SWITCH WITH THREE (3) 20A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26.
17	CONNECTION TO ELECTRIC WATER HEATER, EWH-1, AND CIRCUIT AS SHOWN. PROVIDE 600V, 30A, 3P, NEMA 1, NON-FUSIBLE DISCONNECT SWITCH. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26.
18	CONNECTION TO AIR HANDLER UNIT, AHU-6C, VIA VARIABLE FREQUENCY DRIVE , AHU-6C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
19	CONNECTION TO AIR HANDLER UNIT, AHU-10C, VIA VARIABLE FREQUENCY DRIVE , AHU-10C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
20	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAU-1C, VIA VARIABLE FREQUENCY DRIVE , OAU-1C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
21	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAU-3C, VIA VARIABLE FREQUENCY DRIVE , OAU-3C-VFD, WITH INTEGRAL DISCONNECT AND CIRCUIT AS SHOWN. VFD FURNISHED BY DIV. 23 AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION.
22	CONNECTION TO AIR HANDLER UNIT, AHU-10C, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 70A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
23	CONNECTION TO MINI-SPLIT CONDENSING UNITS, DMSCU-1, AND CIRCUIT AS SHOWN. PROVIDE 250V, 60A, 2P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 60A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26.
24	120V CONTROL POWER CONNECTION TO UV LIGHTING IN HVAC UNIT AND CIRCUIT AS INDICATED. COORDINATE WITH DIV. 23 FOR EXACT LOCATION AND CONNECTION REQUIREMENTS.
25	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAHU-4C-1, AND CIRCUIT AS SHOWN. PROVIDE 600V, 60A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 60A RK1 FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
26	CONNECTION TO OUTSIDE AIR HANDLER UNIT, OAHU-4C-2, AND CIRCUIT AS SHOWN. PROVIDE 600V, 60A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 60A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
27	CONNECTION TO AIR HANDLER UNIT, AHU-8C-1, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 70A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
28	CONNECTION TO AIR HANDLER UNIT, AHU-8C-2, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 70A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
29	CONNECTION TO AIR HANDLER UNIT, AHU-9C-1, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 70A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
30	CONNECTION TO AIR HANDLER UNIT, AHU-9C-2, AND CIRCUIT AS SHOWN. PROVIDE 600V, 100A, 3P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 70A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26. COORDINATE EXACT LOCATION WITH DIV. 23 PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE LOCAL DISCONNECT AT UNIT AND INTERLOCK DISCONNECT TO VFD TO ENSURE POWER IS ALWAYS TURNED OFF AT THE VFD.
31	CONNECTION TO MINI-SPLIT CONDENSING UNITS, DMSCU-2, AND CIRCUIT AS SHOWN. PROVIDE 250V, 30A, 2P, 3F, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH THREE (3) 25A FUSES. DISCONNECT TO BE FURNISHED AND INSTALLED BY DIV. 26.

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GALENA PARK ISD
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North Shore Multi-Use Indoor Facility

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

ELECTRICAL ENLARGED PLANS

SHEET NO.

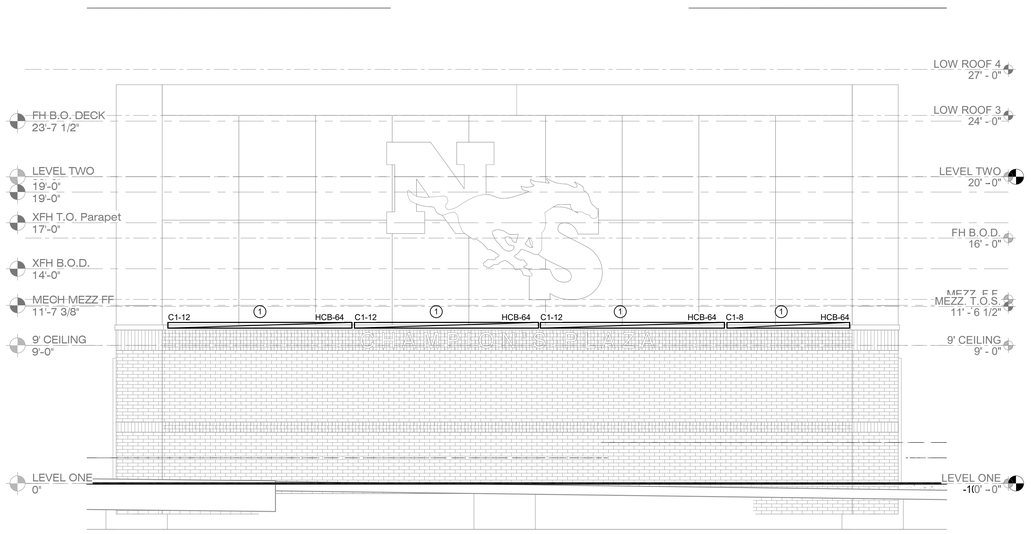
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LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	– – – – – – – – – –
NEW WORK	———

ELECTRICAL KEYED NOTES

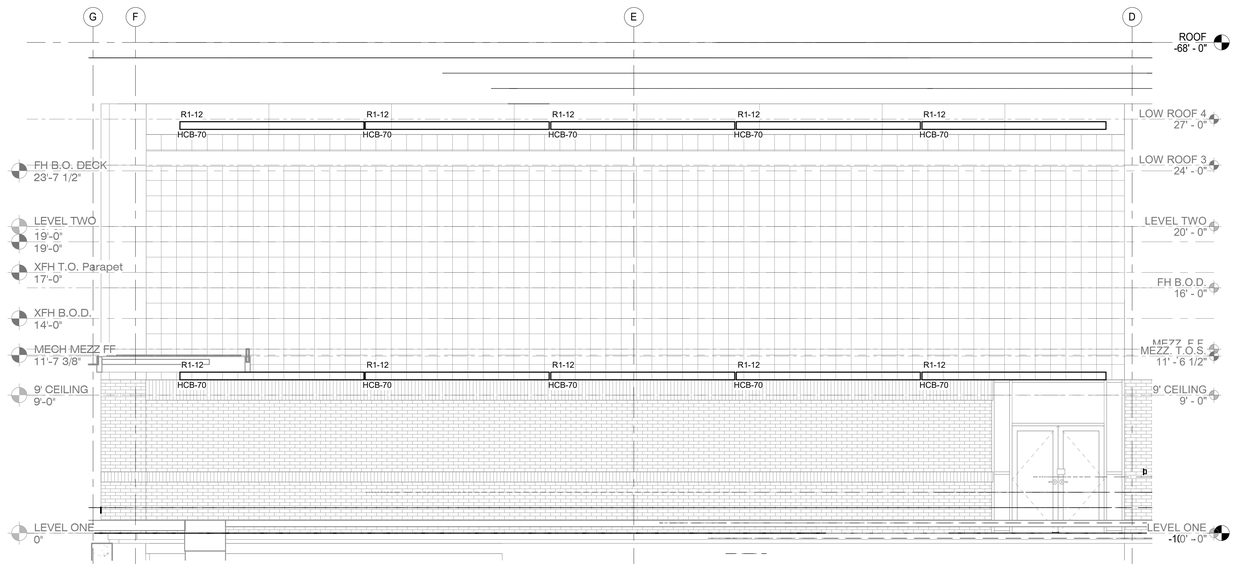
1	PROVIDE UP/DOWN LIGHTING FOR CHAMPION'S PLAZA WALL SIGN AND PLACARD ILLUMINATION. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR MOUNTING. FIXTURESS ARE TO BE ROUTED VIA LIGHTING CONTACTOR LCP. SEE DETAIL 1, SHEET E5.05.



N

1 CHAMPIONS WALL

Scale: 1/4" = 1'-0"



N

2 UNIT B WEST WALL

Scale: 1/4" = 1'-0"

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Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

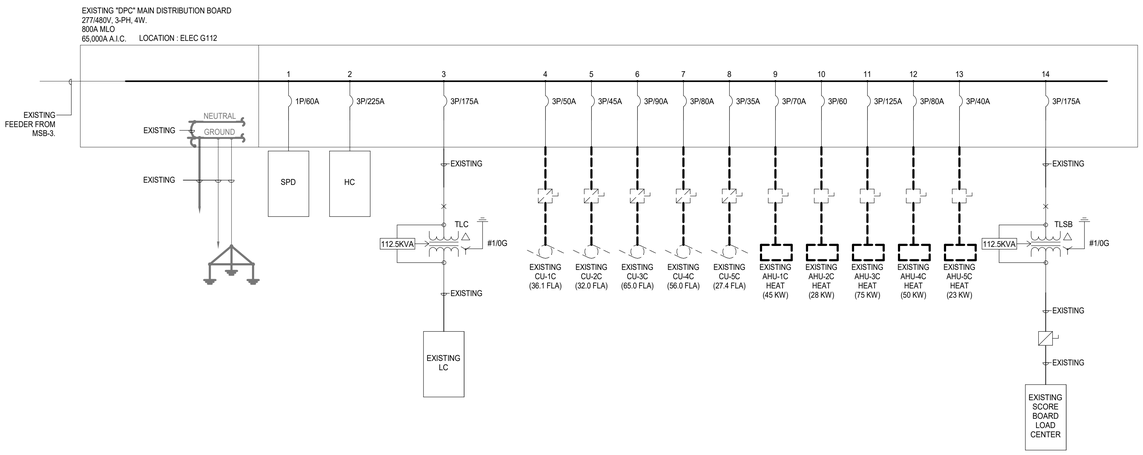
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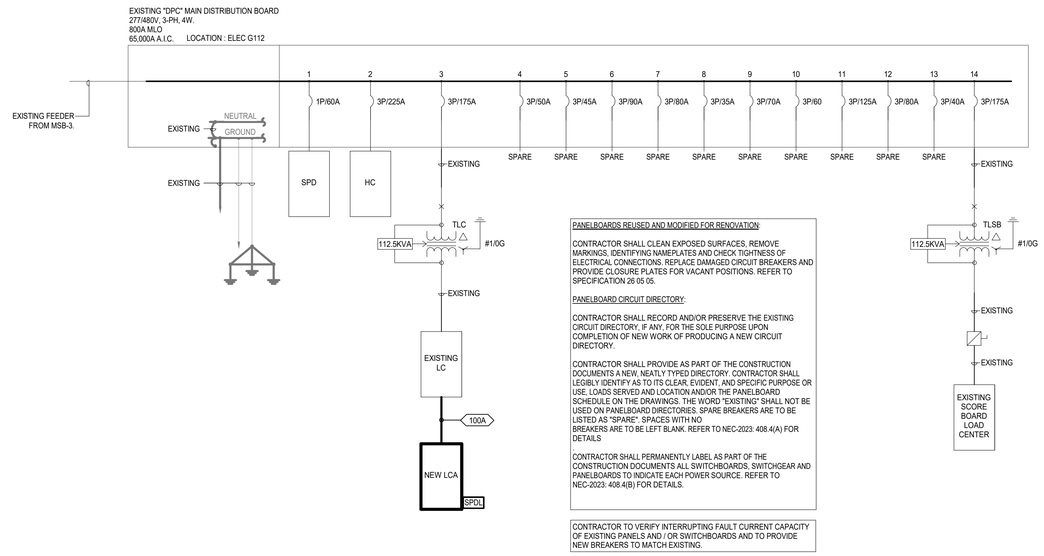
ELECTRICAL ENLARGED PLANS

SHEET NO.

E4.03

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PANELBOARDS REUSED AND MODIFIED FOR RENOVATION:

CONTRACTOR SHALL CLEAN EXPOSED SURFACES, REMOVE MARKINGS, IDENTIFYING NAMEPLATES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. REFER TO SPECIFICATION 26 05 05.

PANELBOARD CIRCUIT DIRECTORY:

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

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

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

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

1 ONE LINE DIAGRAM - DEMOLITION - EXISTING SERVICE ENTRANCE

Scale: **N.T.S.**

2 ONE LINE DIAGRAM - NEW WORK - EXISTING SERVICE ENTRANCE

Scale: **N.T.S.**

GENERATOR LOAD ANALYSIS

NOTES:

#	MAIN ELECTRICAL SERVICE ENTRANCE EQUIPMENT	LOAD
1	ATS-C2	634.2 kVA
	TOTAL CONNECTED LOAD (VA)	634.2 kVA
	TOTAL CONNECTED LOAD (AMPS)	763

Load Classification	Connected Load	Demand Factor	Estimated Demand
HVAC	579.6 kVA	100.00%	579.6 kVA
Receptacles	21.1 kVA	73.74%	15.5 kVA
Heating	6.0 kVA	100.00%	6.0 kVA
Miscellaneous	27.5 kVA	100.00%	27.5 kVA
TOTALS (VA)	634.2 kVA	99.13%	628.7 kVA
TOTALS (AMPS)	763	99.13%	756

UTILITY LOAD ANALYSIS

#	MAIN ELECTRICAL SERVICE ENTRANCE EQUIPMENT	LOAD
1	MSB-C2	1203.8 kVA
	TOTAL CONNECTED LOAD (VA)	1203.8 kVA
	TOTAL CONNECTED LOAD (AMPS)	1448

Load Classification	Connected Load	Demand Factor	Estimated Demand
HVAC	1052.1 kVA	100.00%	1052.1 kVA
Lighting	55.1 kVA	125.00%	68.8 kVA
Receptacles	61.1 kVA	58.18%	35.6 kVA
Heating	6.0 kVA	100.00%	6.0 kVA
Miscellaneous	29.5 kVA	100.00%	29.5 kVA
TOTALS (VA)	1203.8 kVA	99.02%	1192.0 kVA
TOTALS (AMPS)	1448	99.02%	1434

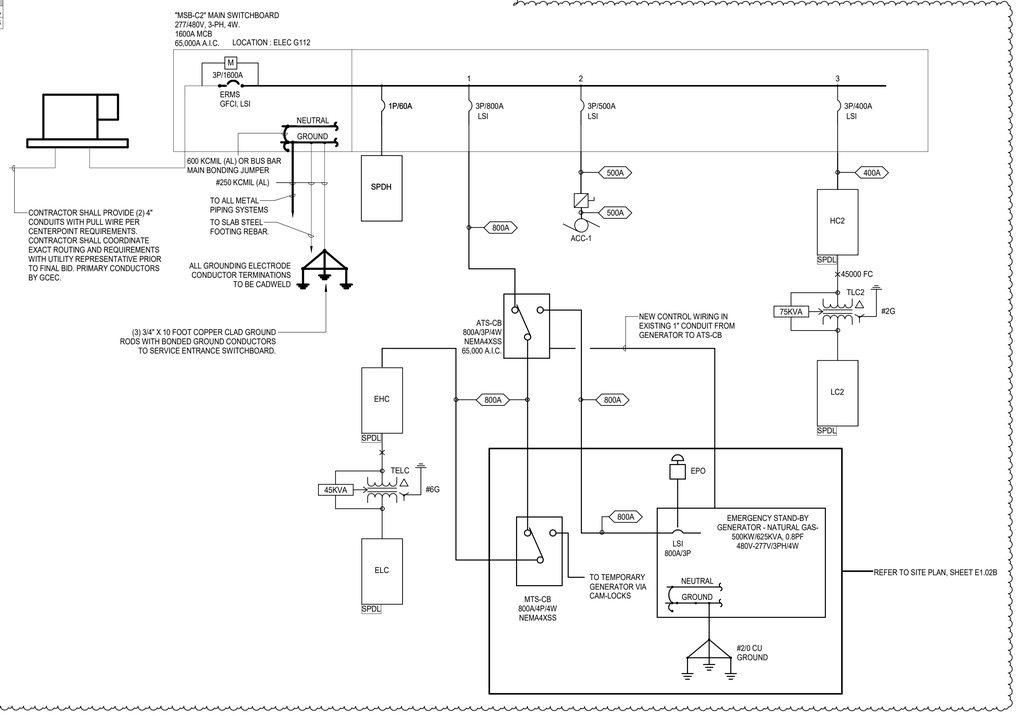
TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
45KVA	3#4, 1#8G,1-1/4"C	3P-70A	4#1/0, 1#6G,2"C	3P-150A	#6
75KVA	3#2, 1#6G,1-1/4"C	3P-125A	4#250KCMIL, 1#2G,3"C	3P-250A	#2

FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
500A	2	(4) #250KCMIL	#2	3"C
500A	2	(4) #250KCMIL	#2	3"C
100A	1	(4) #3	#8	1-1/4"C
800A	4	(4) #3/0	#1/0	2"C
800A	4	(4) #3/0	#1/0	2"C
800A	4	(4) #3/0	#1/0	2"C
800A	4	(4) #3/0	#1/0	2"C
400A	2	(4) #3/0	#2	2"C

LINETYPE LEGEND	
EXISTING TO REMAIN	———
DEMOLITION WORK	- - - - - -
NEW WORK	———



4 ONE LINE DIAGRAM - NEW SERVICE ENTRANCE

Scale: **N.T.S.**

ALL ELECTRICAL EQUIPMENT/WIREWAYS AND UTILITY TRANSFORMERS SHALL BE INSTALLED ABOVE FLOODPLAIN AS REQUIRED BY AUTHORITY HAVING JURISDICTION.

CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE ONE-LINE DIAGRAM SHOWN PRIOR TO COMMENCEMENT OF WORK.

VERIFY EXISTING CONDITIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCEMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED. REFER TO SURVEY FOR MORE INFORMATION.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY 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 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 SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

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

COORDINATE EMERGENCY SYSTEM ELECTRICAL PANELBOARDS, CIRCUIT BREAKERS, AND DISCONNECT FUSES WITH MANUFACTURER TO COMPLY WITH COORDINATION STUDY REQUIREMENTS FOR NEC PRIOR TO SUBMITTAL.

CONTRACTOR SHALL PROVIDE A COORDINATION STUDY, FAULT CURRENT ANALYSIS, AND ARC-FLASH STUDY REPORT FOR NEW ELECTRICAL DISTRIBUTION EQUIPMENT DOWNSTREAM TO THE LAST NEW OVERCURRENT DEVICE IN EACH FEEDER OR BRANCH CIRCUIT, CONDUCTED AND PREPARED BY THE SWITCHGEAR MANUFACTURER. THE COORDINATION STUDY AND FAULT CURRENT ANALYSIS SHALL INCLUDE THE MANUFACTURER'S RECOMMENDATIONS FOR ALL ADJUSTABLE OVERCURRENT DEVICES SPECIFIED OR PROVIDED. STUDY DOES NOT REQUIRE INCLUSION OF EXISTING SWITCHGEAR, EXCEPT IT SHALL INCLUDE EXISTING OR NEW OVERCURRENT DEVICES IN EXISTING SWITCHGEAR SERVING NEW DISTRIBUTION EQUIPMENT. CONTRACTOR SHALL SUBMIT THE REPORT RESULTS PRIOR TO SUBMITTING SWITCHGEAR SUBMITTALS TO ALLOW CHANGES OR MODIFICATIONS TO EQUIPMENT SELECTION.

PROVIDE TESTING BY NETA CERTIFIED COMPANY, CLEANING AND MAINTENANCE FOR EXISTING SWITCHBOARDS, WHICH SHALL INCLUDE: CHECKING FOR SHORT CIRCUITS AND CONTINUITY OF CIRCUITS, INSULATION RESISTANCE TESTING, CHECKING CIRCUIT BREAKERS OPERATION, GROUND FAULT INTERRUPTER TESTING, THERMAL INFRARED SCAN OF SWITCHBOARD UNDER FULL LOAD, CHECKING ALL BOLTED CONNECTIONS FOR HIGH RESISTANCE, PERFORMING GROUND RESISTANCE TESTING, AND CHECKING LOW VOLTAGE CONTROLS WIRING/DEVICES AND INSTRUMENT TRANSFORMERS FOR PROPER OPERATION. CONTRACTOR SHALL PROVIDE A COMPLETE WRITTEN REPORT INDICATING ANY DEFICIENCIES IN RELATION TO EACH COMPONENT'S INTENDED FUNCTION AND RECOMMENDATIONS FOR RESOLVING ANY DEFICIENCY.

INSULATION FOR 2-HOUR FIRE RATED POWER CABLES: INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 2196 FIRE TEST FOR ELECTRICAL CIRCUIT PROTECTION SYSTEMS, AND UL 44, STANDARDS FOR FIRE RESISTIVE CABLE. CONDUCTOR AMPACITY SHALL BE BASED ON 75C. COMBINATION UL TYPE INSULATION TYPES ARE PERMISSIBLE WHERE THE REQUIRED UL TYPE IS PART OF THE COMBINATION UL LISTING.
1. CONDUCTORS INSTALLED UNDERGROUND: INSULATION FOR UNDERGROUND FIRE RATED CONDUCTORS SHALL BE WET LOCATION, UL TYPE RHW 75 DEGREES C, OR UL RHW-2 90 DEGREES C.
2. CONDUCTORS INSTALLED ABOVE GROUND: INSULATION FOR ABOVE GROUND FIRE RATED CONDUCTORS SHALL BE UL TYPE RHH 90C OR RHW 75C OR UL RHW-2 90C.
3. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHIT) – SYSTEM 27 OF THE UL FIRE RESISTANCE DIRECTORY

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Salas O'Brien Project Number: 2550-01455-00

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HOUSTON, TEXAS

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ELECTRICAL ENGINEER
STATE OF TEXAS
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

25-0056.00

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM

SHEET NO.

E5.01

North Shore Multi-Use Indoor Facility

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Branch Panel: HC

EXISTING

Location: STORAGE C112 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: DPC | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Recessed | **Wires:** 4 | **Mains:** 400A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	**LTG LOUNGE C143**		20	1	0.8 / 3.8						2	
	3	**LTG MEETING RM**	**12**	20	1		0.6 / 3.8		3	25	**12** **AHU-1C (10.0 HP) MECHANICAL C131**	4	
	5	**LTG VARISTY/JV LOCKERS C133/C138**	**12**	20	1			1.5 / 3.8				6	
	7	*Lighting*	E	20	1	1.2 / 3.8						8	
	9	**WALL PACK EXTERIOR LTG**	10	20	1		0.1 / 3.8		3	**25**	**12** **AHU-2C (10.0 HP) MECHANICAL C131**	10	
	11	**CORRIDOR LTG**	**12**	20	1			0.4 / 3.8				12	
	13	Lighting	E	20	1	2.8 / 3.8						14	
	15	**Existing LTG, NEW OFFICE LTG**	**12**	20	1		1.9 / 3.8		3	**25**	**12** **AHU-3C (10.0 HP) MECHANICAL C131**	16	
	17	*Lighting*	E	20	1			1.8 / 3.8				18	
	19	***Lighting***	**12**	20	1	1.4 / 3.0						20	
	21	**LTG MECHANICAL C141**	**12**	20	1		0.3 / 3.0		3	**25**	**12** **AHU-4C (10.0 HP) MECHANICAL C108**	22	
	23	**CEILING PANEL LTG**	12	20	1			0.5 / 3.0				24	
	25	Lighting	E	20	1	1.0 / 2.1						26	
	27						2.1 / 2.1		3	20	**12** **AHU-5C (5.0 HP) MECHANICAL C108**	28	
	29	**AHU-7C (5.0 HP) MECHANICAL C141**	**12**	20	3			2.1 / 2.1				30	
	31					2.1 / 3.0						32	
	33	TRANSFORMER TLG	E	40	2		5.0 / 3.0		3	20	E WASHER	34	
	35							5.0 / 3.0				36	
	37					3.0 / 3.0						38	
	39	WASHER	E	20	3		3.0 / 3.0		3	20	E WASHER	40	
	41							3.0 / 3.0				42	
			Total Load:			34.9 kVA	35.6 kVA	37.0 kVA					
			Total Amps:			126 A	129 A	134 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	56.3 kVA	100.00%	56.3 kVA		
Lighting	14.2 kVA	125.00%	17.8 kVA	**Total Conn. Load:**	107.5 kVA
Miscellaneous	27.0 kVA	100.00%	27.0 kVA	**Total Est. Demand:**	111.1 kVA
Other	10.0 kVA	100.00%	10.0 kVA	**Total Conn. Current:**	129 A
				Total Est. Demand Current:	134 A

Notes:
BOLD - NEW; ITALIC - PARTIAL EXISITNG LIGHTING CIRCUIT TO REMAIN;
BOLD/ITALIC - PARTIAL NEW LIGHTING TIED INTO EXISITNG LIGHTING CIRCUIT

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

Branch Panel: LC

EXISTING

Location: ELECTRICAL C109 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TLC | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 400A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	EF-1C JV LOCKER RM C136	E	20	1	0.5 / 0.2			1	20	**12** **GFCI RECEPT**	2	
	3	EF-2C LAUNDRY C140	E	20	1		0.5 / 0.2		1	20	**12** **GFCI RECEPT**	4	
	5	EF-3C VARSITY LOCKER RM C140	E	20	1			0.5 / 0.5	1	20	E Receptacles OFFICE C124	6	
	7	EF-4C,EF-5C HALL C110, HC C106	E	20	1	0.5 / 0.5			1	20	E Receptacles EXAM RM C129	8	
	9	EF-6C HALL C119	E	20	1		0.5 / 0.5		1	20	E Receptacles TRAINING C122	10	
	11	**GFCI RECEPT**	**12**	20	1			0.2 / 0.5	1	20	E Receptacles TRAINING C122	12	
	13	Receptacle STORAGE C125	E	20	1	0.5 / 0.5			1	20	E Receptacles OFFICE C124	14	
	15	**ICE MAKER CONF RM C106**	**#12**	20	1		1.8 / 0.5		1	20	E Receptacles CLASSROOM C123	16	
	17	**REFIRGERATOR CONF RM C106**	**#12**	20	1			0.2 / 0.5	1	20	E Receptacles CLASSROOM C123, WP/GFCI	18	
	19	ICE MACHINE THERAPY C128	E	20	1	0.5 / 0.5			1	20	E Receptacles THERAPY C128	20	
G	21	Water Fountain Rec JV LOCKERS 4	E	20	1		0.2 / 0.5		1	20	E Receptacles THERAPY C128	22	
G	23	Water Fountain Rec VARSITY LOCKERS 5	E	20	1			0.2 / 0.5	1	20	E WHIRLPOOL THERAPY C128	24	
	25	Receptacles		20	1	0.5 / 0.5			1	20	E WHIRLPOOL THERAPY C128	26	
	27	**MINI-FRIDGE HEAD COACH C106**	**12**	20	1		0.2 / 0.5		1	20	E WHIRLPOOL THERAPY C128	28	
	29							8.5 / 0.5	1	20	E Receptacles C122, C126, C127	30	
	31	**NEW PANEL 'LC-1'**	**#3**	**125**	**3**	8.9 / 0.2			1	20	**#12** **TIMECLOCK CORRIDOR C101**	32	
	33						7.0 / 0.4		1	20	E Receptacles TOILETS C137	34	
--	35	**SPARE**	--	20	1			0.0 / 0.3				36	
	37	EF-7C STORAGE C125	E	20	1	0.5 / 0.3			2	20	Receptacles	38	
	39	***GP REC's VARSITY LOCKERS C138***	***12***	20	1		0.5 / 0.5		1	20	Receptacles	40	
	41	**CORRIDOR RECEPTACLES**	**#12**	20	1			0.9 / 0.5	1	20	Receptacles	42	
	43	Receptacle EXAM RM C129	E	20	1	0.5 / 0.0						44	
	45	Receptacles C118,C120, C121	E	20	1		0.5 / 0.0		3	30	E WASHER LAUNDRY C140	46	
	47	Receptacles COACHING STAFF C116	E	20	1			0.5 / 0.0				48	
	49	Receptacles COACHING STAFF C116	E	20	1	0.5 / 0.0						50	
	51	Rec's COACHING STAFF C116/LOCKER C117	E	20	1		0.5 / 0.0		3	30	E WASHER LAUNDRY C140	52	
	53	Receptacles COACHING STAFF C116	E	20	1			0.5 / 0.0				54	
	55	**GP REC's STORAGE C111**	**12**	20	1	0.4 / 0.0						56	
	57	Receptacles	E	20	1		0.5 / 0.0		3	30	E WASHER LAUNDRY C140	58	
	59	Receptacles	E	20	1			0.5 / 0.0				60	
	61	**WARMING CABINET LOUNGE C143**	**#12**	20	1	0.2 / 0.0			1	25	E DRYER LAUNDRY C140	62	
	63	**GP REC's HEAD COACH 38**	**12**	20	1		0.9 / 0.0		1	25	E DRYER LAUNDRY C140	64	
	65	**GP REC's CONF. ROOM C105**	**12**	20	1			1.1 / 0.0	1	25	E DRYER LAUNDRY C140	66	
	67	Receptacles MECH C108, ELEC/TELE C109	E	20	1	0.7 / 0.5			1	20	E TTB ELEC/TELE C109	68	
	69	Receptacles		20	1		0.5 / 0.5		1	20	E TTB ELEC/TELE C109	70	
	71	VENDING MACHINES CORRIDOR C101	E	20	1			0.5 / 0.2	1	20	**#12** **GLASS DOOR REF LOUNGE C143**	72	
	73	VENDING MACHINES CORRIDOR C101	E	20	1	0.5 / 0.5			1	20	**#12** **GP GFCI JAN. C144**	74	
	75	VENDING MACHINES CORRIDOR C101	E	20	1		0.5 / 0.0		1	20	-- **SPARE**	76	--
	77	DAMPERS	E	20	1			0.5 / 0.5	1	20	EXSITING	78	
	79	FIRE SMOKE DAMPERS	E	20	1	0.5 / 0.5			1	20	EXISTING	80	
	81	**GP REC's LOUNGE C143**	**#12**	20	1		0.6 / 0.5		1	20	EXISTING	82	
	83	EXISTING		20	1			0.5 / 0.5	1	20	EXISTING	84	
			Total Load:			19.4 kVA	18.8 kVA	19.0 kVA					
			Total Amps:			161 A	157 A	158 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3.5 kVA	100.00%	3.5 kVA		
Kitchen Equipment	5.0 kVA	70.00%	3.5 kVA	**Total Conn. Load:**	57.1 kVA
Miscellaneous	0.5 kVA	100.00%	0.5 kVA	**Total Est. Demand:**	39.2 kVA
Motor	1.5 kVA	100.00%	1.5 kVA	**Total Conn. Current:**	159 A
Receptacles	44.2 kVA	61.32%	27.1 kVA	**Total Est. Demand Current:**	109 A
Existing	2.5 kVA	125.00%	3.1 kVA		

Notes:

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

Branch Panel: LCA

Location: MECHANICAL C131 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LC | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	TV, GP REC'S PLAYER MTG RM C130B	#12	20	1	0.6 / 0.4			1	20	#12 TV, GP REC'S PLAYER MTG RM C130B	2	
	3	TV, GP REC'S PLAYER MTG RM C130B	#12	20	1		0.4 / 0.4		1	20	#12 TV, GP REC'S PLAYER MTG RM C130B	4	
	5	FLR REC's PLAYER MTG RM C130B	#12	20	1			0.7 / 0.5	1	20	#12 FLR REC's PLAYER MTG RM C130B	6	
	7	FLR REC's PLAYER MTG RM C130B	#12	20	1	0.7 / 0.7			1	20	#12 FLR REC's PLAYER MTG RM C130B	8	
	9	Receptacles SERVING HALL C132	#12	20	1		1.8 / 1.0		1	20	#12 Receptacles SERVING HALL C132	10	
	11	Receptacles SERVING HALL C132	#12	20	1			0.4 / 0.2	1	20	#12 Receptacles SERVING HALL C132	12	
	13	Receptacles SERVING HALL C132	#12	20	1	0.2 / 0.4			1	20	#12 Receptacles SERVING HALL C132	14	
	15	Receptacles SERVING HALL C132	#12	20	1		0.2 / 0.2		1	20	#12 Receptacles SERVING HALL C132	16	
	17	GFCI SVC REC's MECHANICAL C131	#12	20	1			0.4 / 0.7	1	20	#12 GP REC's JV LOCKERS C133	18	
	19	HVAC SVC REC's MECHANICAL C141	#12	20	1	0.7 / 0.7			1	20	#12 GP REC's VARSITY LOCKERS C138	20	
	21	GP REC's VARSITY LOCKERS C138	#12	20	1			0.9 / 2.1				22	
	23	THERAPY TUB ICE BATHS C135 (NOTE 1)	#10	30	2				2	20	#10 THERAPY TUB ICE BATHS C136 (NOTE 1)	24	
	25					2.1 / 2.1						26	
	27						0.0 / 2.1		2	20	#10 THERAPY TUB ICE BATHS C138 (NOTE 1)	28	
	29											30	
	31											32	
	33											34	
	35											36	
	37											38	
	39											40	
	41											42	
			Total Load:			8.5 kVA	8.9 kVA	7.0 kVA					
			Total Amps:			73 A	76 A	59 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment	3.2 kVA	80.00%	2.5 kVA		
Receptacles	21.3 kVA	73.43%	15.7 kVA	**Total Conn. Load:**	24.5 kVA
				Total Est. Demand:	18.2 kVA
				Total Conn. Current:	68 A
				Total Est. Demand Current:	51 A

Notes:
1. PROVIDE GFCI BREAKER

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

Switchboard: DPC

Location: ELECTRICAL C109 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: Utility | **Phases:** 3
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 1200
Enclosure: Type 1

CKT	Circuit Description	Trip Rating	# of Poles	Load	Wire	Remarks
1	(E)HC	225	3	107.5 kVA		
2	(E)TLC (112.5 kVA XFR)	175	3	57.1 kVA		
3	SPARE	50	3	0.0 kVA		FORMER CU-1C BREAKER
4	SPARE	45	3	0.0 kVA		FORMER CU-2C BREAKER
5	SPARE	90	3	0.0 kVA		FORMER CU-3C BREAKER
6	SPARE	80	3	0.0 kVA		FORMER CU-4C BREAKER
7	SPARE	35	3	0.0 kVA		FORMER CU-5C BREAKER
8	SPARE	70	3	0.0 kVA		FORMER STRIP HTR -...
9	SPARE	60	3	0.0 kVA		FORMER STRIP HTR -...
10	SPARE	125	3	0.0 kVA		FORMER STRIP HTR -...
11	SPARE	80	3	0.0 kVA		FORMER STRIP HTR -...
12	SPARE	40	3	0.0 kVA		FORMER STRIP HTR -...
13	(E)TSLC	100	3	0.0 kVA		EXISTING STADIUM LTG
14						
15						
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42						
			Total Conn...	164.6 kVA		
			Total Amps:	198		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	59.8 kVA	100.00%	59.8 kVA		
Lighting	14.2 kVA	125.00%	17.8 kVA	**Total Conn. Load:**	164.6 kVA
Motor	1.5 kVA	100.00%	1.5 kVA	**Total Est. Demand:**	150.2 kVA
Other	10.0 kVA	100.00%	10.0 kVA	**Total Conn. Current:**	198
Miscellaneous	27.5 kVA	100.00%	27.5 kVA	**Total Est. Demand...**	181
Kitchen Equipment	5.0 kVA	70.00%	3.5 kVA		
Receptacles	44.2 kVA	61.32%	27.1 kVA		
Existing	2.5 kVA	125.00%	3.1 kVA		

Notes:

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
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North Shore Multi-Use Indoor Facility

STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E5.02

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Lighting Inverter Schedule: EML

Location: ELECTRICAL C161 | **Input Voltage:** 277/480 Wye | **Output Voltage:** 277/480 Wye
Supply From: HCB | **Phases:** 3 | **Battery Run Time (Minutes):** 90
Mounting: SURFACE | **Wires:** 4 | **kVA Rating:**
Enclosure: NEMA-1

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	UNIT A EGRESS LTG	1	20	2.7 kVA	
2	UNIT B EGRESS LTG C150, C148, C151	1	20	1.6 kVA	
3	UNIT D EGRESS LIGHTING PRACTICE FIELD	1	20	3.9 kVA	
4	UNIT D EGRESS LIGHTING PRACTICE FIELD	1	20	3.9 kVA	
5	UNIT D EGRESS LIGHTING PRACTICE FIELD	1	20	2.6 kVA	
6	UNIT D EGRESS LIGHTING RMS C157, C154, C155	1	20	0.6 kVA	
7	EXTERIOR WALL PACK LTG CENTRAL PLANT C158	1	20	0.1 kVA	
8	EXTERIOR WALL PACK EGRESS LIGHTING	1	20	0.0 kVA	
9	EXTERIOR EGRESS CANOPY DOWN LIGHTING	1	20	0.1 kVA	
10	EXTERIOR EGRESS CANOPY DOWN LIGHTING	1	20	0.1 kVA	
11	EXTERIOR WALL PACK EGRESS LIGHTING	1	20	0.0 kVA	
12	SITE PARKING LIGHTING	1	20	0.3 kVA	
13	SITE PARKING LIGHTING	1	20	1.2 kVA	
14	EXIT SIGNS C132, C143, C101, C138	1	20	0.2 kVA	
15	EXIT SIGNS C149, C148, C147	1	20	0.1 kVA	
				17.7 kVA	
				21	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	17.7 kVA	125.00%	22.1 kVA		
				Total Conn. Load:	17.7 kVA
				Total Est. Demand:	22.1 kVA
				Total Conn. Current:	21
				Total Est. Demand Current:	27

Branch Panel: HCB

Location: ELECTRICAL C162 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 35,000
Supply From: MSB-C2 | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 400A
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				18.4 / 3.6						2	
	3	TLC2 (75 KVA TRANSFORMER)	1/0	150	3	11.4 / 3.6		3	40	8 PCHWP-2 (15.0 HP)	4	
	5						13.4 / 3.6				6	
	7				3.6 / 0.7						8	
	9	SCHWP-2 (15.0 HP) BOILER/RISER C160	8	40	3	3.6 / 0.7		3	20	10 EF-1C (1.0 HP) LAUNDRY C137	10	
	11						3.6 / 0.7				12	
	13				3.0 / 1.4						14	
	15	HVLS-1 THRU HVLS-6 (2.0 HP EA)	10	20	3	3.0 / 1.4		3	20	12 EF-8C (3.0 HP) MEZZANINE	16	
	17						3.0 / 1.4				18	
	19				3.0 / 0.8						20	
	21	OAU-1C (7.5 HP)	12	20	3	3.0 / 0.8		3	20	12 EF-10C (1.5 HP) BAND STORAGE C155	22	
	23						3.0 / 0.8				24	
	25				3.8 / 3.3			1	20	10 PRACTICE FIELD LIGHTING	26	
	27	OAU-2C (5.0 HP) MECHANICAL C141	10	20	3	3.8 / 3.3		1	20	10 PRACTICE FIELD LIGHTING	28	
	29						3.8 / 3.9	1	20	10 PRACTICE FIELD LIGHTING (ALTERNATE)	30	
	31				2.1 / 0.0			1	20	-- SPARE	32	--
	33	OAU-3C (5.0 HP)	12	20	3	2.1 / 2.0		1	20	12 CLG LTG SYSTEM ENTRANCE HALL C147	34	
	35						2.1 / 0.2	1	20	10 CORRIDOR LTG	36	
	37				3.6 / 0.3			1	20	10 FOOTBALL EQUIP. ROOM LTG C150	38	
	39	AHU-6C (15.0 HP)	8	40	3	3.6 / 1.1		1	20	10 WEIGHT ROOM LTG C148	40	
	41						3.6 / 0.4	1	20	12 LIGHTING RMS C156, C154, C155	42	
	43				1.3 / 3.6			1	20	10 INTERIOR SCREEN WALL LTG	44	
	45	AHU-10C (3.0 HP)	12	20	3	1.3 / 2.6		1	20	10 INTERIOR SCREEN WALL LTG	46	
	47						1.3 / 2.6	1	20	10 EXTERIOR ACCENT LTG	48	
	49				1.1 / 3.6			1	20	10 EXTERIOR ACCENT LTG	50	
	51	HWP-2 (2.0 HP) BOILER/RISER C160	12	20	3	1.1 / 0.0		1	20	-- SPARE	52	--
	53						1.1 / 0.0	1	20	-- SPARE	54	--
--	55	SPACE	--	--	1	0.0 / 1.7		1	20	10 EXTERIOR ACCENT LTG (FUTURE)	56	
--	57	SPACE	--	--	1		0.0 / 1.7	1	20	10 INTERIOR SCREEN WALL LTG (FUTURE)	58	
--	59	SPACE	--	--	1		0.0 / 1.3	1	20	10 EXTERIOR ACCENT LTG (FUTURE)	60	
--	61	SPACE	--	--	1	0.0 / 1.3		1	20	10 INTERIOR SCREEN WALL LTG (FUTURE)	62	
--	63	SPACE	--	--	1		0.0 / 0.6	1	20	10 CHAMPIONS WALL ACCENT LTG	64	
--	65	SPACE	--	--	1		0.0 / 0.1	1	20	12 WALL PACK LTG CENTRAL PLANT C158	66	
--	67	SPACE	--	--	1	0.0 / 0.6		1	20	10 EXTERIOR CANOPY LTG	68	
--	69	SPACE	--	--	1		0.0 / 2.0	1	20	10 EXTERIOR WALL PACK LIGHTING	70	
--	71	SPACE	--	--	1		0.0 / 0.4	1	20	8 SITE PARKING LIGHTING	72	
--	73	SPACE	--	--	1	0.0 / 0.6		1	20	10 SITE PARKING LIGHTING	74	
--	75	SPACE	--	--	1		0.0 / 0.2	1	20	10 BOLLARD LIGHTING	76	
--	77	SPACE	--	--	1		0.0 / 0.1	1	20	10 BOLLARD LIGHTING	78	
--	79	SPACE	--	--	1	0.0 / 12.1					80	
--	81	SPACE	--	--	1		0.0 / 0.3	3	30	10 EML LIGHTING INVERTER	82	
--	83	SPACE	--	--	1		0.0 / 5.3				84	
			Total Load:			73.5 kVA	53.1 kVA	55.7 kVA				
			Total Amps:			267 A	192 A	203 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	85.2 kVA	100.00%	85.2 kVA		
Lighting	55.1 kVA	125.00%	68.8 kVA	**Total Conn. Load:**	182.4 kVA
Miscellaneous	2.0 kVA	100.00%	2.0 kVA	**Total Est. Demand:**	181.1 kVA
Receptacles	40.1 kVA	62.48%	25.0 kVA	**Total Conn. Current:**	219 A
				Total Est. Demand Current:	218 A

Notes:

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

Branch Panel: LCB

Location: ELECTRICAL C162 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TLCB | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 400A
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	GP DED REC INDOOR FIELD C156-1	#10	20	1	0.7 / 0.7		1	20	#10 GP DED REC INDOOR FIELD C156-1	2	
	3	GP DED REC INDOOR FIELD C156-1	#10	20	1		3.0 / 1.5	1	20	#12 IT RACK PRACTICE FEILD C156	4	
	5	GP DED REC INDOOR FIELD C156-1	#10	20	1		1.0 / 0.7	1	20	#10 GP DED REC INDOOR FIELD C156-1	6	
	7	GP DED REC INDOOR FIELD C156-1	#10	20	1	1.0 / 1.0		1	20	#10 GP DED REC INDOOR FIELD C156-1	8	
	9	GP DED REC INDOOR FIELD C156-1	#10	20	1		1.0 / 1.0	1	20	#10 GP DED REC INDOOR FIELD C156-1	10	
	11	GP DED REC INDOOR FIELD C156-1	#10	20	1		1.0 / 1.0	1	20	#10 GP DED REC INDOOR FIELD C156-1	12	
	13	AV QUAD INDOOR FIELD C156	#12	20	1	1.5 / 1.0		1	20	#10 GP DED REC INDOOR FIELD C156-1	14	
	15	GP DED REC INDOOR FIELD C156-1	#10	20	1		0.7 / 0.7	1	20	#10 GP DED REC INDOOR FIELD C156-1	16	
	17	GP DED REC INDOOR FIELD C156-1	#10	20	1		0.5 / 3.0	1	20	#10 GP DED REC INDOOR FIELD C156-1	18	
	19	GP DED REC OUTDOOR FIELD C163	#10	20	1	4.0 / 4.0		1	20	#10 GP DED REC OUTDOOR FIELD C163	20	
	21	HVLS-7 (0.5 HP),HVLS-8 (0.5 HP),HVLS-9 (0.5 HP)	#12	20	2		0.6 / 0.0	1	20	#12 EF-9C (1/3 HP) MECHANICAL C141	22	
	23						0.6 / 0.5	1	20	#12 AHU-10C UV LIGHT MEZZANINE C201	24	
	25	OAU-1C UV LIGHT MEZZANINE C201	#12	20	1	0.5 / 0.5		1	20	#10 GFCI HVAC SVC REC's MEZZANINE	26	
	27	OAU-3C UV LIGHT MEZZANINE C201	#12	20	1		0.5 / 0.4	1	20	#12 GP REC'S CORRIDOR C156-1	28	
	29	AHU-6C UV LIGHT MEZZANINE C201	#12	20	1		0.5 / 0.7	1	20	#12 GP REC's ENTRANCE HALL C147	30	
	31	SVC REC's ELECTRICAL RM's C162, C161	#12	20	1	0.4 / 0.7		1	20	#12 GP REC's FOOTBALL EQUIP. ROOM C150	32	
	33	GP GFCI REC's BOILER/RISER C164	#12	20	1		0.5 / 0.4	1	20	#12 GP REC's WEIGHT ROOM C148	34	
	35	GP REC's ATHLETIC STORAGE C159	#12	20	1		0.9 / 0.5	1	20	#12 GP REC's NORTHWEST HALL C149	36	
	37	GP REC's WEIGHT ROOM C148	#12	20	1	0.7 / 1.6		1	20	#12 TV REC's Room C147, C148	38	
	39	GP REC's WEIGHT ROOM C148	#12	20	1		0.4 / 0.8	1	20	#12 TV REC's WEIGHT ROOM C148	40	
	41						0.0 / 2.4	1	20	#12 TV REC'sWEIGHT ROOM C148	42	
	43										44	
	45										46	
	47										48	
	49										50	
	51										52	
	53										54	
	55										56	
	57										58	
	59										60	
	61										62	
	63										64	
	65										66	
	67										68	
	69										70	
	71										72	
	73										74	
	75										76	
	77										78	
	79										80	
	81										82	
	83										84	
		Total Load:			18.4 kVA	11.4 kVA	13.4 kVA					
		Total Amps:			156 A	95 A	114 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1.1 kVA	100.00%	1.1 kVA		
Miscellaneous	2.0 kVA	100.00%	2.0 kVA	**Total Conn. Load:**	43.2 kVA
Receptacles	40.1 kVA	62.48%	25.0 kVA	**Total Est. Demand:**	28.1 kVA
				Total Conn. Current:	120 A
				Total Est. Demand Current:	78 A

Notes:

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

Switchboard: MSB-C2

Location: ELECTRICAL C162 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 45,000
Supply From: CNP XFR | **Phases:** 3
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 1600
Enclosure: NEMA-1

CKT	Circuit Description	Trip Rating	# of Poles	Load	Wire	Remarks
1	ATS-C2	800	3	634.2 kVA		100% RATED LSI BREAKER
2	ACC-2	500	3	387.3 kVA		100% RATED LSI BREAKER
3	HC2	400	3	182.4 kVA		100% RATED LSI BREAKER
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
			Total Conn...	1203.8 kVA		
			Total Amps:	1448		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1052.1 kVA	100.00%	1052.1 kVA		
Lighting	55.1 kVA	125.00%	68.8 kVA	**Total Conn. Load:**	1203.8 kVA
Miscellaneous	29.5 kVA	100.00%	29.5 kVA	**Total Est. Demand:**	1192.0 kVA
Receptacles	61.1 kVA	58.18%	35.6 kVA	**Total Conn. Current:**	1448
Heating	6.0 kVA	100.00%	6.0 kVA	**Total Est. Demand...**	1434

Notes:

Switchboard: EHB

Location: ELECTRICAL C161 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: MSB-C2 | **Phases:** 3
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 800
Enclosure: Type 1

CKT	Circuit Description	Trip Rating	# of Poles	Load	Wire	Remarks
1	ACC-1 EXTERIOR CHILLER YARD	500	3	387.3 kVA		
2	TELC	70	3	44.4 kVA		
3	OAU-4C-1 (20.0 HP) ROOF UNIT D	60	3	22.4 kVA		
4	OAU-4C-2 (20.0 HP) ROOF UNIT D	60	3	22.4 kVA		
5	AHU-8C-1 (25.0 HP) ROOF UNIT D	70	3	28.3 kVA		
6	AHU-8C-2 (25.0 HP) ROOF UNIT D	70	3	28.3 kVA		
7	AHU-9C-1 (25.0 HP) ROOF UNIT D	70	3	28.3 kVA		
8	AHU-9C-2 (25.0 HP) ROOF UNIT D	70	3	28.3 kVA		
9	PCHWP-1 (15.0 HP) MECH RM C164	40	3	10.8 kVA		
10	SCHWP-1 (15.0 HP) BOILER/RISER C160	40	3	10.8 kVA		
11	HWP-1 (15.0 HP) MECH RM C164	40	3	10.8 kVA		
12	EWH-1 (12.3 KW) BOILER/RISER C164	20	3	12.3 kVA		
13						
14						
15						
16						
17						
18						
19						
20						
			Total Conn...	634.2 kVA		
			Total Amps:	763		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	579.6 kVA	100.00%	579.6 kVA		
Miscellaneous	27.5 kVA	100.00%	27.5 kVA	**Total Conn. Load:**	634.2 kVA
Receptacles	21.1 kVA	73.74%	15.5 kVA	**Total Est. Demand:**	628.7 kVA
Heating	6.0 kVA	100.00%	6.0 kVA	**Total Conn. Current:**	763
				Total Est. Demand...	756

Notes:
1. PROVIDE 100% RATED MAIN CIRCUIT BREAKER

Branch Panel: ELB

Location: BOILER/RISER C160 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TELB | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 200A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	GFCI SERVICE REC's MECH YARD	#12	20	1	0.4 / 0.4		1	20	#12 GP REC AV/IT ROOM C151	2	
	3	GP REC AV/IT ROOM C151	#12	20	1		0.4 / 3.6	1	20	#12 GP REC AV/IT ROOM C151	4	
	5	GP REC AV/IT ROOM C151	#12	20	1		3.6 / 3.6	1	20	#12 GP REC AV/IT ROOM C151	6	
	7	GP REC AV/IT ROOM C151	#12	20	1	3.6 / 1.8		1	20	#12 GP RECEPT IDF C158	8	
	9	GP RECEPT IDF C158	#12	20	1		1.8 / 1.8	1	20	#12 GP RECEPT IDF C158	10	
	11	ICE MACHINE RECEPT JAN-1 C156-1	#12	20	1						12	
	13					1.0 / 1.0		3	20	#12 EUH-2 (5.0 KW) BOILER/RISER C164	14	
	15	EUH-1 (5.0 KW) BOILER/RISER C164	#12	20	3		1.0 / 1.0				16	
	17										18	
	19					3.5 / 0.0		3	20	#12 CHWPFCU-1 (1.5 HP) BOILER/RISER C164	20	
	21	DMSCU-1 MECH MEZZANINE C201	#8	50	2		3.5 / 0.0				22	
	23										24	
	25	DMSCU-2 UNIT D ROOF	#10	25	2	2.0 / 0.7		1	20	#12 OAU-4C UV LIGHT	26	
	27	AHU-8C UV LIGHT	#12	20	1		0.5 / 0.7				28	
	29	AHU-9C UV LIGHT	#12	20	1			3	20	#12 B-1 (BOILER) BOILER/RISER C160	30	
	31	IDP/ACP POWER AV/IT ROOM C151	#12	20	1	0.5 / 0.0	0.5 / 0.7				32	
	33	IDP/ACP POWER JAN C157	#12	20	1		1.2 / 0.0				34	
	35	FACP PWR AV/IT ROOM C151	#12	20	1						36	
	37	FUTURE ERRCS PWR AV/IT ROOM C151	#12	20	1	0.5 / 0.0	0.5 / 0.0				38	
	39										40	
	41										42	
		Total Load:				15.3 kVA	15.5 kVA	13.6 kVA				
		Total Amps:				130 A	131 A	113 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2.1 kVA	100.00%	2.1 kVA		
Heating	6.0 kVA	100.00%	6.0 kVA	**Total Conn. Load:**	44.4 kVA
Miscellaneous	15.2 kVA	100.00%	15.2 kVA	**Total Est. Demand:**	38.8 kVA
Receptacles	21.1 kVA	73.74%	15.5 kVA	**Total Conn. Current:**	123 A
				Total Est. Demand Current:	108 A

Notes:

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

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

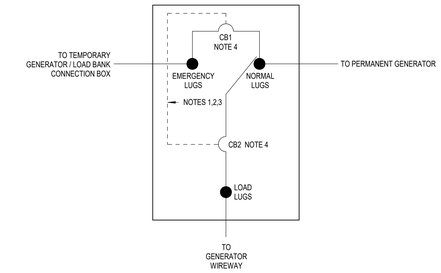
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E5.03

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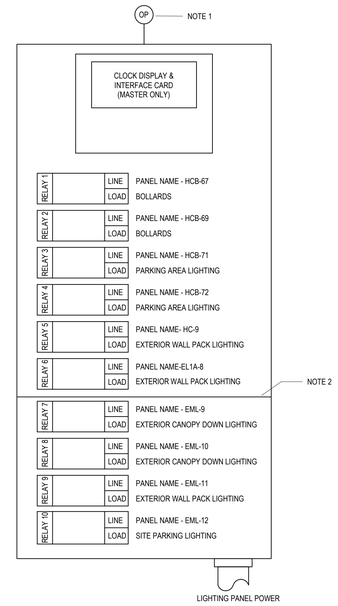


NOTES:

1. IN MANUAL TRANSFER SWITCH MODE FOR CONNECTION OF TEMPORARY GENERATOR, CIRCUIT BREAKER CB1 IS OPEN AND CIRCUIT BREAKER CB2 IS CLOSED AND TRANSER SWITCH IS MOVED FROM NORMAL LUGS TO EMERGENCY LUGS.
2. IN LOAD BANK CONNECTION MODE FOR LOAD BANK TESTING OF PERMANENT GENERATOR, CIRCUIT BREAKER CB1 IS CLOSED AND CIRCUIT BREAKER CB2 IS OPEN.
3. CB1 AND CB2 ARE INTERLOCKED SO THAT BOTH BREAKERS CANNOT BE CLOSED AS THE SAME TIME.
4. CB1 IS NORMALLY OPEN AND CB2 IS NORMALLY CLOSED.

2 MTS-CB TEMPORARY GENERATOR & LOAD BANK CONNECTION WIRING DIAGRAM

Scale: NONE



NOTE:

1. PANEL LCP SHALL OPERATE "PHOTOCELL ON" FOR ALL EXTERIOR CIRCUITS AND "TIMECLOCK OFF" FOR EACH INDIVIDUAL CIRCUIT. TIMECLOCK SETTINGS AS DIRECTED BY THE OWNER.
2. PROVIDE METAL BARRIER IN PANEL LCP TO ISOLATE NORMAL POWER CIRCUITS FROM THE EMERGENCY CIRCUITS.
3. BASIS OF DESIGN IS THE ACUITY LCD BLUEBOX MODEL #GR1408 LT ENC

1 PANEL LCP WIRING DIAGRAM

Scale: NONE

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
ELECTRICAL DETAILS, AND SCHEDULES

SHEET NO.
E5.05

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PLUMBING GENERAL NOTES:

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.

3. ANY OTHER ITEMS NOT REFERENCED WHICH ARE LOCATED IN THE DEMOLISHED SPACE (VENT, WASTE, WATER, PLUMBING FIXTURE, ETC.) THAT ARE IDENTIFIED OR DISCOVERED DURING DEMOLITION WHICH WILL NOT BE USED FOR THIS PROJECT, SHALL BE DEMOLISHED BACK TO THE MAIN SOURCE OR RISER, AND DEVICES SHALL BE RETAINED TO THE OWNER STORAGE AS DIRECTED BY THE ARCHITECT/OWNER.

4. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.

PLUMBING KEYED NOTES "⊠"

1 REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT AND ALL ASSOCIATED APPURTENANCES. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. CAP EXISTING ROUGH-INS AT WALL. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.

2 REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED APPURTENANCES. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. REMOVE EXISTING WASTE TO BELOW FLOOR AND CAP. REMOVE WATER AND VENT PIPING AS SHOWN. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.

3 EXISTING VENT THRU ROOF TO REMAIN. CAP PIPING BELOW ROOF FOR RECONNECTION DURING NEW CONSTRUCTION.

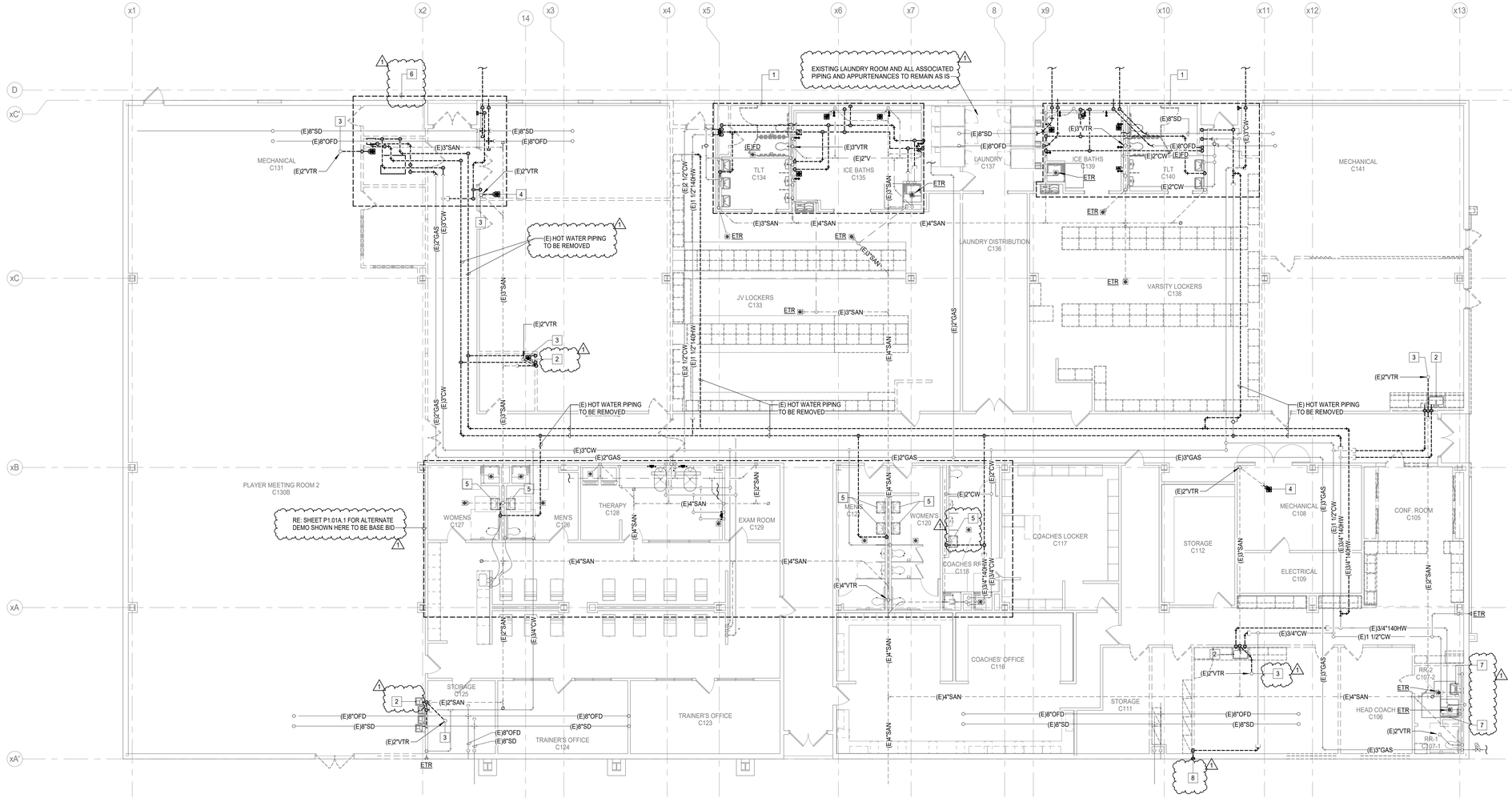
4 REMOVE EXISTING FLOOR DRAIN/HUB DRAIN/TRENCH DRAIN. CAP PIPING BELOW FLOOR.

5 REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED APPURTENANCES. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. CAP EXISTING WASTE AND WATER ROUGH-INS FOR RECONNECTION DURING NEW CONSTRUCTION. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.

6 REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT AND ALL ASSOCIATED APPURTENANCES. REMOVE SERVICES SUCH AS WATER, WASTE, STORM, GAS AND VENT PIPING IN THIS AREA SERVING CONNECTIONS TO EQUIPMENT/FIXTURES, WHICH ARE EXISTING AND ARE TO BE REMOVED. REMOVE WATER PIPING BACK TO MAIN AND CAP OR AS INDICATED. REMOVE WASTE PIPING SERVING FIXTURES TO BE REMOVED TO BELOW FLOOR AND CAP. REMOVE VENT PIPING TO ABOVE CEILING AND CAP. REMOVE GAS AND STORM PIPING AS INDICATED AND CAP FOR RECONNECTION DURING NEW CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.

7 REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED APPURTENANCES. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. REMOVE EXISTING ROUGH-INS TO RISER AND CAP FOR RECONNECTION DURING NEW CONSTRUCTION. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS..

8 REMOVE EXISTING WALL HYDRANT AND ASSOCIATED PIPING AS SHOWN AND CAP..



N

1 **PLUMBING DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A**
Scale: 1/8" = 1'-0"

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Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
PLUMBING DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A

SHEET NO.
P1.01A

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PLUMBING GENERAL NOTES:

1. CONTRACT DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. CONTRACTOR TO VERIFY AT SITE EXACT LOCATIONS, AND SIZES OF EXISTING PIPING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT AND ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

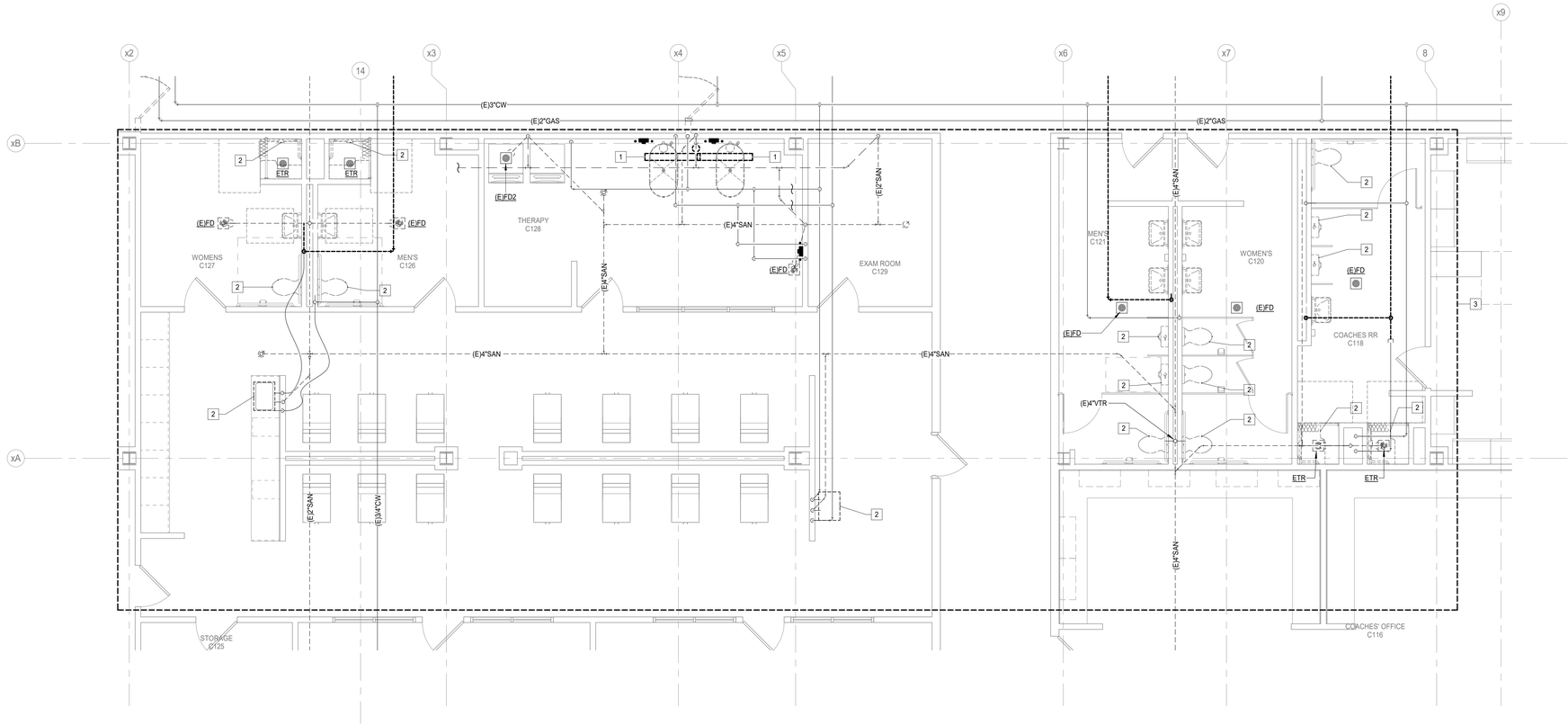
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.

3. ANY OTHER ITEMS NOT REFERENCED WHICH ARE LOCATED IN THE DEMOLISHED SPACE (VENT, WASTE, WATER, PLUMBING FIXTURE, ETC.) THAT ARE IDENTIFIED OR DISCOVERED DURING DEMOLITION WHICH WILL NOT BE USED FOR THIS PROJECT, SHALL BE DEMOLISHED BACK TO THE MAIN SOURCE OR RISER, AND DEVICES SHALL BE RETAINED TO THE OWNER STORAGE AS DIRECTED BY THE ARCHITECT/OWNER.

4. PLUMBING FIXTURES/EQUIPMENT SHOWN ON PLAN THAT ARE NOT IDENTIFIED AND DO NOT HAVE A FIXTURE DESIGNATION ARE EXISTING AND ARE TO REMAIN.

PLUMBING KEYED NOTES "⊠"

1. REMOVE EXISTING FLOOR DRAIN/HUB DRAIN/TRENCH DRAIN. CAP PIPING BELOW FLOOR.
2. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED APPURTENANCES. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. CAP EXISTING ROUGH-INS AT WALL FOR RE-WORK/RECONNECTION DURING NEW CONSTRUCTION. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.
3. REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT AND ALL ASSOCIATED APPURTENANCES. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOED FIXTURES. CAP EXISTING ROUGH-INS AT WALL. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS. 1



N

1 **PLUMBING DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A - ALTERNATE**
Scale: 1/4" = 1'-0"

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HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

STATE OF TEXAS
BRADLEY KALMANS
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LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

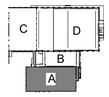
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1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
PLUMBING DEMOLITION FLOOR PLAN - LEVEL ONE - UNIT A - ALTERNATE

SHEET NO.
P1.01A.1



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PLUMBING GENERAL NOTES:

1. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 3" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BUILDING.

2. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.

3. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES

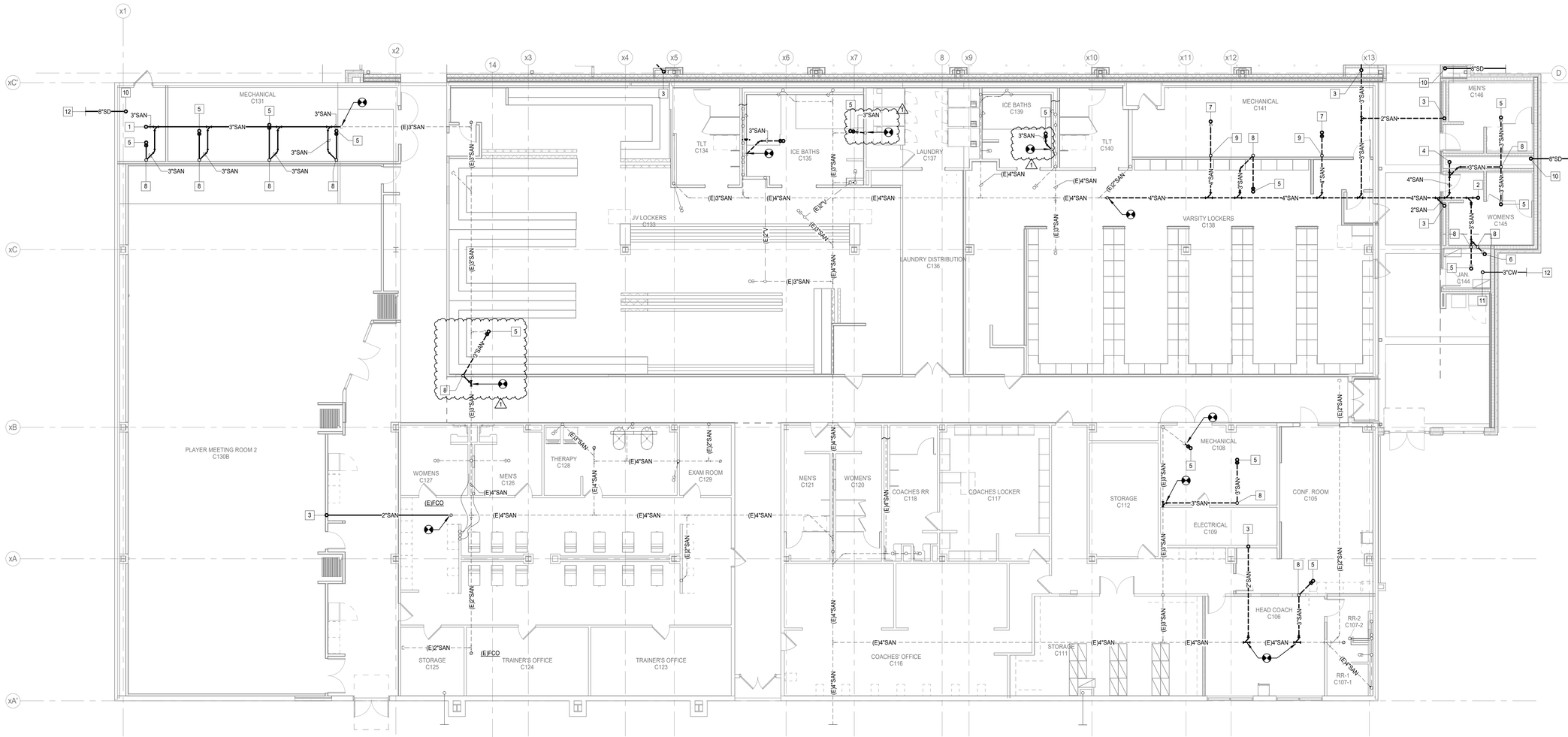
4. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.

5. REFER TO SHEETS P5.01 AND P5.02 FOR DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.

6. SAWCUT EXISTING SLAB AS REQUIRED TO INSTALL NEW PIPING BELOW FLOOR. SEAL AND PATCH FLOOR TO MATCH EXISTING UPON COMPLETION. AVOID STRUCTURAL BEAMS.

PLUMBING KEYED NOTES "⊠"

1	3" WASTE FROM CLEANOUT ABOVE.
2	4" WASTE FROM CLEANOUT ABOVE.
3	2" WASTE FROM ABOVE.
4	4" WASTE FROM ABOVE.
5	3" WASTE FROM DRAIN ABOVE PROVIDE P-TRAP.
6	3" WASTE FROM MOP SINK ABOVE
7	4" WASTE FROM DRAIN ABOVE. PROVIDE P-TRAP.
8	3" WASTE DOWN, 2" VENT UP.
9	4" WASTE DOWN, 2" VENT UP.
10	8" STORM FROM ABOVE.
11	2-1/2" COLD WATER UP.
12	RE: SHEET P1.01 FOR CONTINUATION.



N

1 **PLUMBING UNDERFLOOR PLAN - UNIT A**
Scale: 1/8" = 1'-0"

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10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

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1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

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SHEET TITLE
PLUMBING UNDERFLOOR PLAN - UNIT A

SHEET NO.
P2.02A

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PLUMBING GENERAL NOTES:

1. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 3" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BUILDING.

2. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.

3. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES

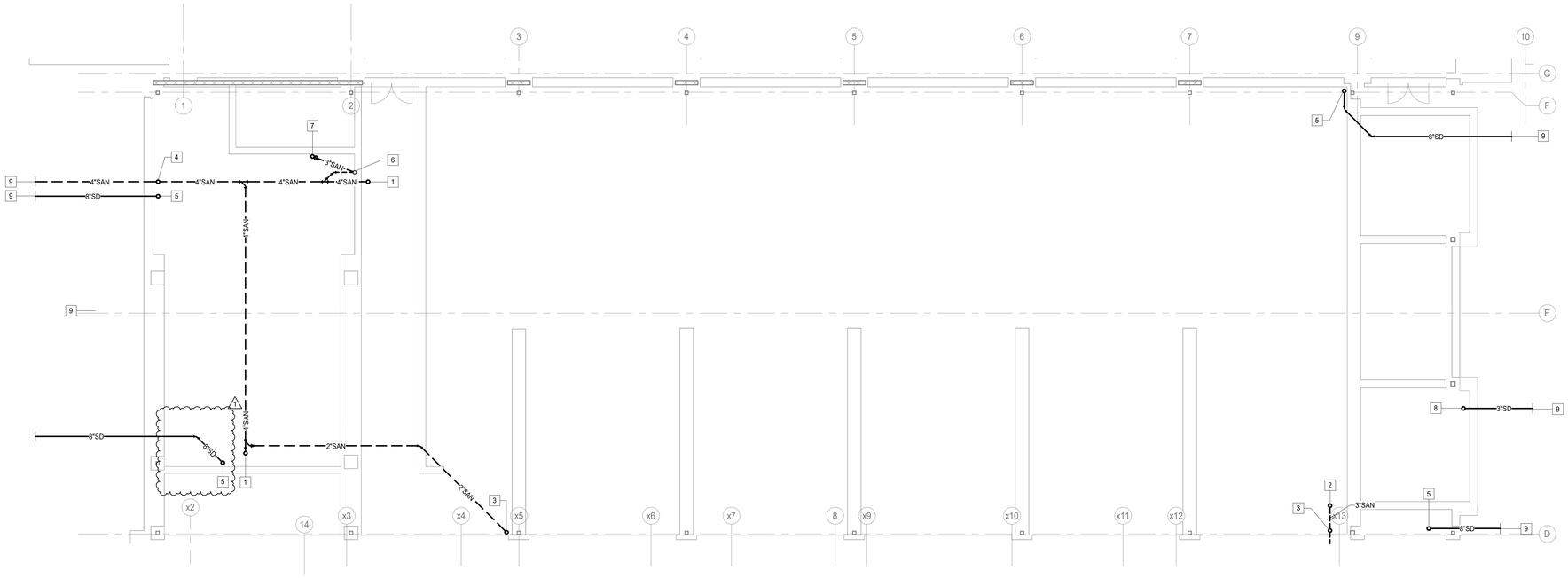
4. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.

5. REFER TO SHEETS P5.01, FOR DETAILS AND SHEETS P6.01 FOR PLUMBING SCHEDULES.

6. SAWCUT EXISTING SLAB AS REQUIRED TO INSTALL NEW PIPING BELOW FLOOR. SEAL AND PATCH FLOOR TO MATCH EXISTING UPON COMPLETION. AVOID STRUCTURAL BEAMS.

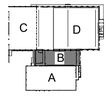
PLUMBING KEYED NOTES "⊠"

1. 4" WASTE FROM CLEANOUT ABOVE.
2. 3" WASTE FROM CLEANOUT ABOVE.
3. 2" WASTE FROM ABOVE.
4. 4" WASTE FROM ABOVE.
5. 8" STORM FROM ABOVE.
6. 3" WASTE DOWN, 2" VENT UP.
7. 3" WASTE FROM DRAIN ABOVE PROVIDE P-TRAP.
8. 3" STORM FROM ABOVE.
9. RE: SHEET P1.01 FOR CONTINUATION.



N

1 **PLUMBING UNDERFLOOR PLAN - UNIT B**
Scale: 1/8" = 1'-0"



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1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

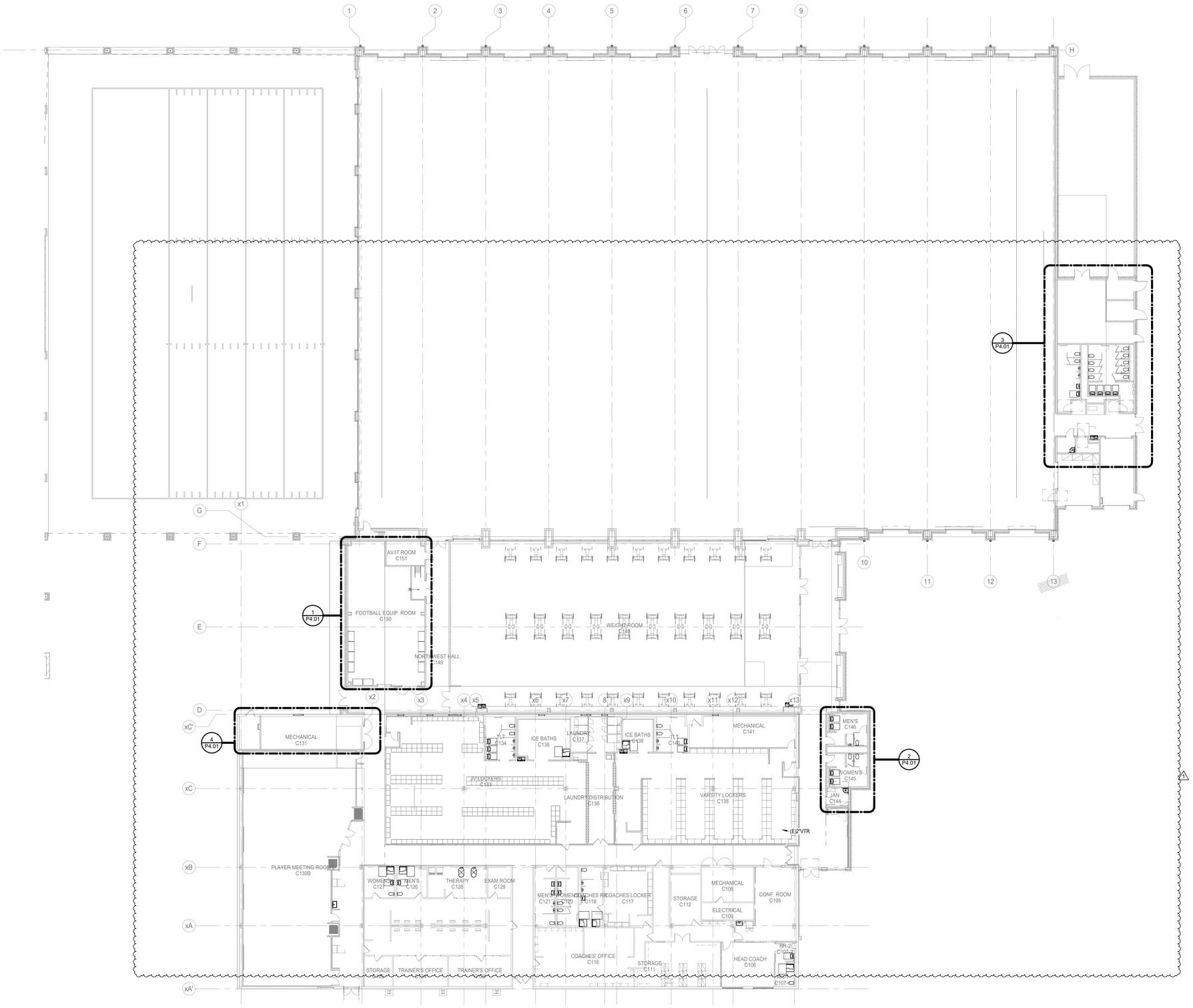
SHEET TITLE
PLUMBING UNDERFLOOR PLAN - UNIT B

SHEET NO.
P2.03B

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FIRE SPRINKLER NOTE:

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND HYDRAULIC CALCULATIONS FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING, TO COMPLY WITH SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



N

1 **PLUMBING FLOOR PLAN - LEVEL ONE - OVERALL**
Scale: 1/16" = 1'-0"

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10.08.2025

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REVISIONS

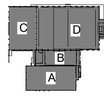
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Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
PLUMBING FLOOR PLAN - LEVEL ONE - OVERALL

SHEET NO.
P3.01



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FIRE SPRINKLER NOTE:

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND HYDRAULIC CALCULATIONS FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING. TO COMPLY WITH SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.

2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. RE: SHEET P5.01 FOR DETAIL AND SHEET P6.01 FOR SCHEDULES

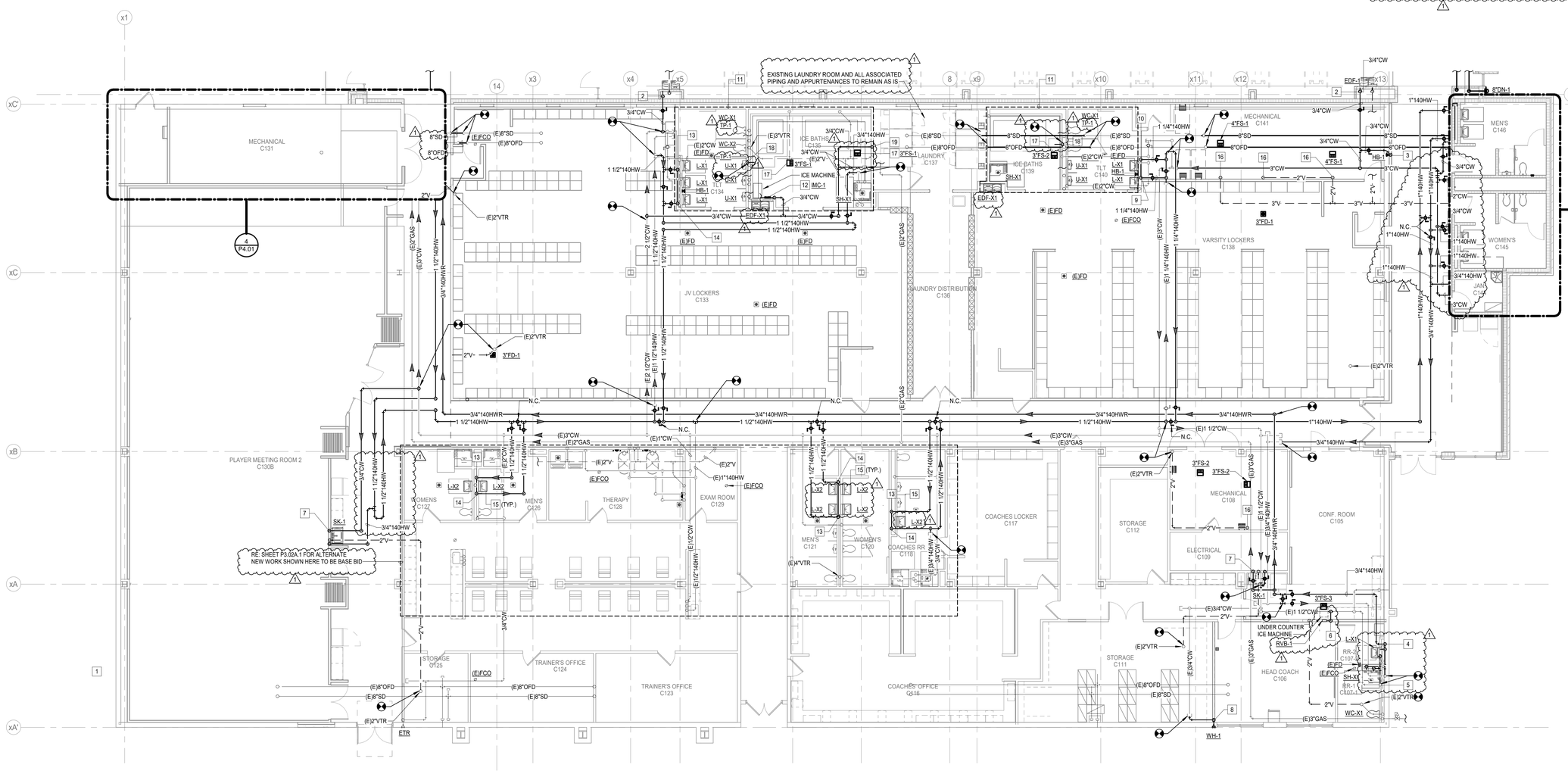
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.

4. REFER TO SHEETS P5.01 FOR PLUMBING DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.

5. CONRACTOR SHALL REMOVE AND REPLACE CEILING WHERE REQUIRED TO COMPLETE INDICATED SCOPE OF WORK. EXISTING CEILING SHALL BE RE-INSTALLED IN THE EXACT CONDITION IT WAS REMOVED IN. DAMAGED CEILING AND/OR CEILING TILES SHALL BE REPLACED TO MATCH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A MATCH IS NOT POSSIBLE, CONTRACTOR SHALL REPLACE ALL CEILING FROM WALL TO WALL OR BOUNDARY SEPARATING IN ADJOINING ROOMS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.

PLUMBING KEYED NOTES "⊠"

2	3/4" COLD WATER DOWN, 2" WASTE DOWN, 2" VENT UP EXTEND AND ROUGH-IN TO EQUIPMENT/FIXTURE(S).
3	DROP 3/4" COLD WATER AND CONNECT TO HOSE BIBB MOUNT AT MINIMUM 18" AFF. VERIFY EXACT HEIGHT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
4	DROP 3/4" HOT WATER LOOP DOWN IN CHASE, ROUTE THRU CHASE, ROUGH-IN AND CONNECT TO FIXTURES.
5	PROVIDE NEW 3/4 COLD WATER TAP OFF EXISTING COLD WATER RISER, EXTEND 3/4" COLD WATER LINE IN CHASE, OFFSET AND ROUGH-IN TO FIXTURES.
6	DROP 3/4" COLD WATER DOWN, EXTEND 1/2" CW TO RVB-1 AND CONNECT. RE: DETAIL SHEET P5.01 FOR VALVE BOX HOOK-UP. PROVIDE WILKINS 700XL BACKFLOW PREVENTER WHEN MAKING FINAL CONNECTION TO UNDERCOUNTER ICE MAKER RE: SHEET P5.02 FOR DETAIL
7	DROP 3/4" HOT AND COLD WATER, RISE 2" VENT UP, 2" WASTE DOWN, ROUTE HOT AND COLD WATER LINES THRU POINT OF USE MIXING VALVE EXTEND AND ROUGH-IN TO FIXTURE(S). RE: SHEET P5.02 FOR DETAIL
8	DROP 3/4" COLD WATER TO SERVE WALL HYDRANT, MOUNT AT MINIMUM 18" ABOVE FINISHED GRADE COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT/OWNER.
9	DROP 1-1/4" HOT WATER LOOP DOWN IN CHASE, ROUTE THRU CHASE AND ROUGH-IN TO FIXTURES
10	RISE 1-1/4" HOT(120°) UP FROM W, RE: SHEET P5.02 FOR HW CIRCULATION AT PUBLIC LAVATORIES DETAIL.
11	PROVIDE NEW PLUMBING FIXTURE(S) TO REPLACE EXISTING REMOVED DURING DEMOLITION PHASE. MODIFY AS REQUIRED AND RE-USE EXISTING WASTE, VENT AND WATER ROUGH-INS FOR NEW FIXTURE(S). CLEAN AND RESTORE FLOOR DRAIN STRAINER TO LIKE NEW CONDITION. REPLACE IF CRACKED OR BROKEN..
12	3/4" COLD WATER DOWN EXTEND AND CONNECT TO ICE MACHINE THROUGH BACKFLOW PREVENTER.(IMC-1) RE: SHEET P5.01 FOR ICE MACHINE CONNECTION DETAIL. PROVIDE FILTER AS SPECIFIED ON SHEET P6.02(IMC-1) WHEN MAKING FINAL CONNECTION, PROVIDE FILTER IN AN ACCESSIBLE LOCATION OFF TO THE SIDE. DO NOT LOCATE FILTER BEHIND ICE MACHINE.
13	DROP 1-1/2" HOT WATER LOOP DOWN IN CHASE, ROUTE THRU CHASE AND ROUGH-IN TO FIXTURES
14	RISE 1-1/2" HOT(140°) UP. RE: SHEET P5.02 FOR HW CIRCULATION AT PUBLIC LAVATORIES DETAIL.
15	PROVIDE NEW PLUMBING FIXTURE TO REPLACE EXISTING REMOVED DURING DEMOLITION PHASE. MODIFY AS REQUIRED AND RE-USE EXISTING WASTE, VENT AND WATER ROUGH-INS FOR NEW FIXTURE(S).
16	2" VENT UP FROM BELOW SLAB.
17	COORDINATE WITH DIVISION 11 FOR EXACT PLACEMENT OF FLOOR SINK WITH THERAPY TUB DRAIN OUTLET.
18	PROVIDE NEW 3/4" COLD WATER ROUGH-IN FROM EXISTING COLD WATER MAIN IN CHASE, FOR NEW ICE BATH, COORDINATE WITH DIVISION 11 FOR EXACT LOCATION.
19	DROP NEW 3/4" COLD WATER AND ROUGH-IN FOR NEW ICE BATH, COORDINATE WITH DIVISION 11 FOR EXACT LOCATION.



N

1 **PLUMBING FLOOR PLAN - LEVEL ONE - UNIT A**

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

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GALENA PARK ISD
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10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

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1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

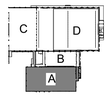
25-0056.00

SHEET TITLE

PLUMBING FLOOR PLAN - LEVEL ONE - UNIT A

SHEET NO.

P3.02A



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FIRE SPRINKLER NOTE:

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR. TO PROVIDE DRAWINGS AND HYDRAULIC CALCULATIONS FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING. TO COMPLY WITH SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.

2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. RE: SHEET P5.01 FOR DETAIL AND SHEET P6.01 FOR SCHEDULES

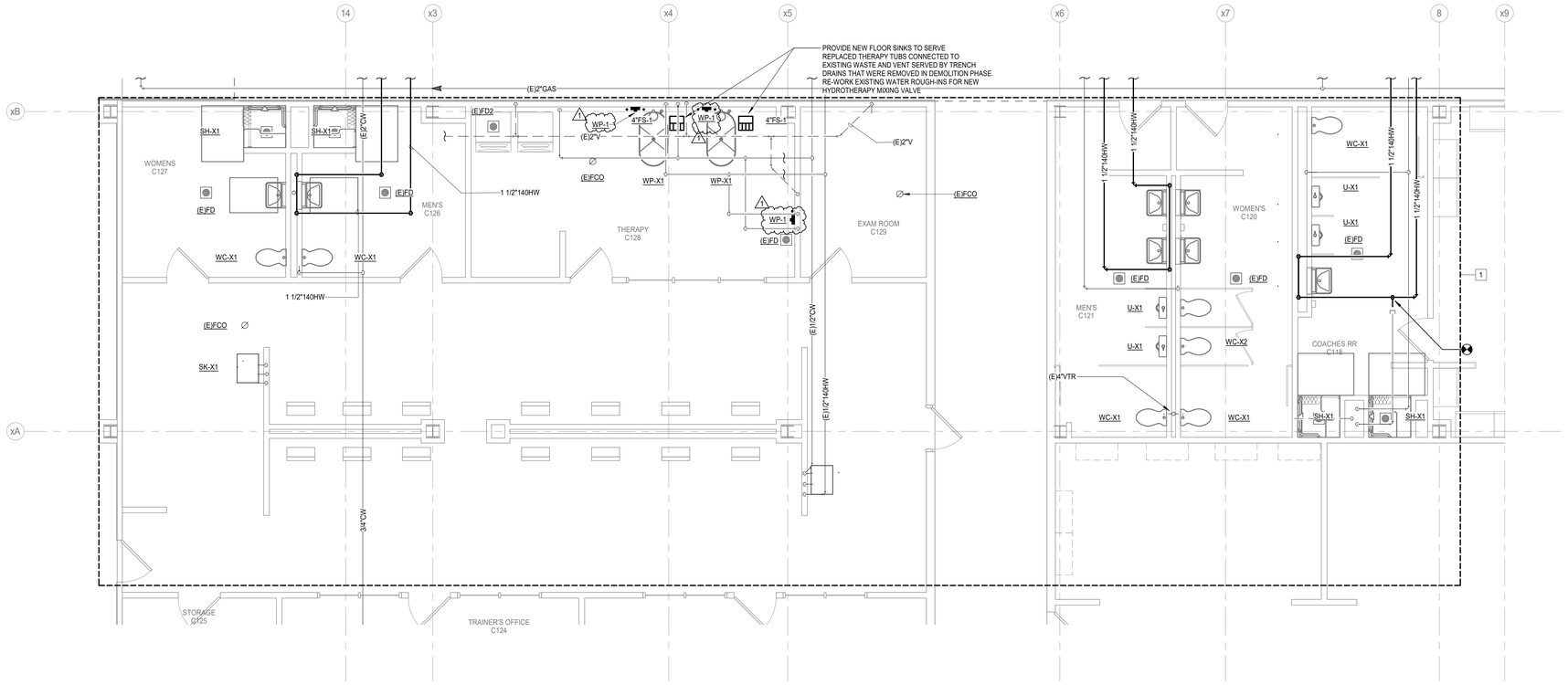
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.

4. REFER TO SHEETS P5.01 FOR PLUMBING DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.

5. CONRACTOR SHALL REMOVE AND REPLACE CEILING WHERE REQUIRED TO COMPLETE INDICATED SCOPE OF WORK. EXISTING CEILING SHALL BE RE-INSTALLED IN THE EXACT CONDITION IT WAS REMOVED IN. DAMAGED CEILING AND/OR CEILING TILES SHALL BE REPLACED TO MATCH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A MATCH IS NOT POSSIBLE, CONTRACTOR SHALL REPLACE ALL CEILING FROM WALL TO WALL OR BOUNDARY SEPARATING IN ADJOINING ROOMS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.

PLUMBING KEYED NOTES "⊠"

1 PROVIDE NEW PLUMBING FIXTURE(S) TO REPLACE EXISTING REMOVED DURING DEMOLITION PHASE. MODIFY AS REQUIRED AND RE-USE EXISTING WASTE, VENT AND WATER ROUGH-INS FOR NEW FIXTURE(S). CLEAN AND RESTORE FLOOR DRAIN STRAINER TO LIKE NEW CONDITION. REPLACE IF CRACKED OR BROKEN..



N

1 PLUMBING FLOOR PLAN - LEVEL ONE - UNIT A - ALTERNATE

Scale: 1/4" = 1'-0"

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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: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS — 80219 — LICENSED — REGISTERED — 10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.

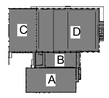
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SHEET TITLE

PLUMBING FLOOR PLAN - LEVEL ONE - UNIT A - ALTERNATE

SHEET NO.

P3.02A.1



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FIRE SPRINKLER NOTE:

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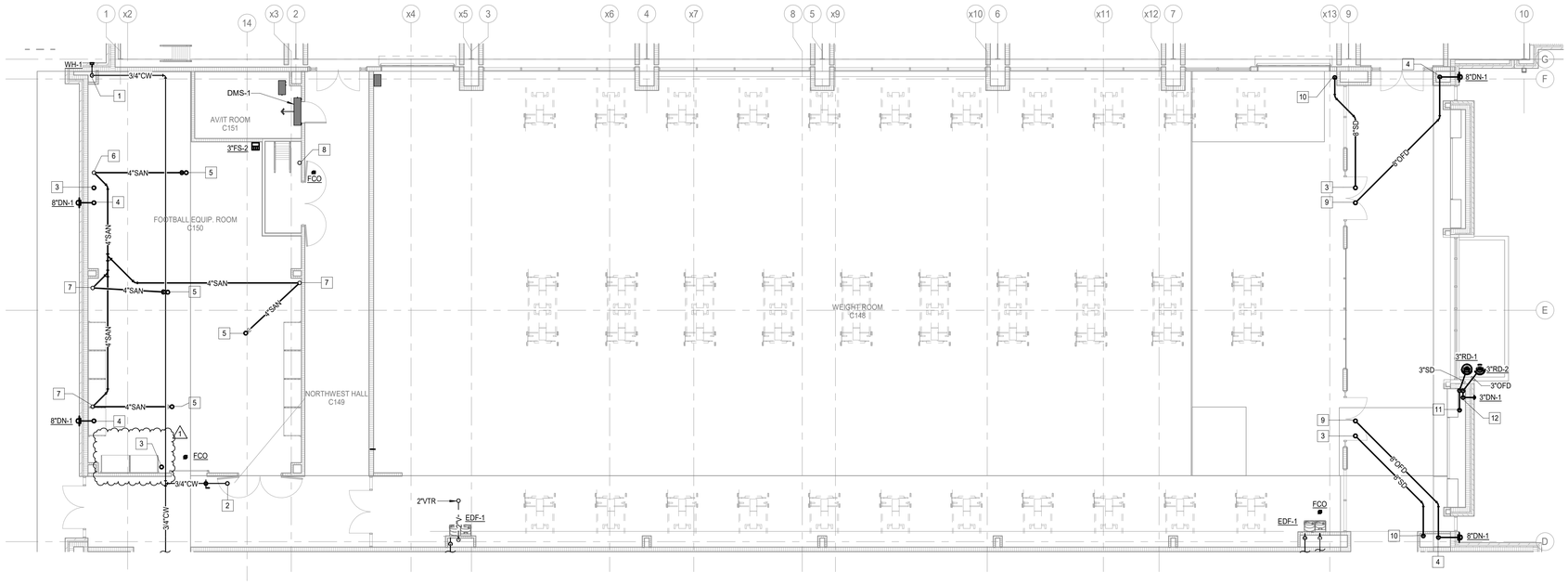
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3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.

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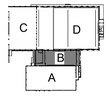
PLUMBING KEYED NOTES "⊠"

1	DROP 3/4" COLD WATER TO SERVE WALL HYDRANT. COORDINATE MOUNTING HEIGHT LOCATION WITH ARCHITECT/OWNER. RE: SHEET P5.01 FOR DETAIL.
2	3/4" COLD WATER UP.
3	8" STORM FROM ABOVE.
4	8" OVERFLOW DOWN. EXTEND AND CONNECT TO DOWNSPOUT NOZZLE(DN-1). RE: SHEET P5.01 FOR DOWNSPOUT NOZZLE DETAIL
5	4" WASTE FROM DRAIN ABOVE. PROVIDE P-TRAP.
6	4" WASTE DOWN, 3" VENT UP.
7	4" WASTE DOWN, 2" VENT UP.
8	3" VENT UP FROM BELOW FLOOR, UP TO 3"VTR
9	8" OVERFLOW FROM ABOVE.
10	8" STORM DOWN TO BELOW SLAB.
11	3" STORM DOWN TO BELOW SLAB.
12	3" OVERFLOW DOWN. EXTEND AND CONNECT TO DOWNSPOUT NOZZLE(DN-1). RE: SHEET P5.01 FOR DOWNSPOUT NOZZLE DETAIL



N

1 **PLUMBING FLOOR PLAN - LEVEL ONE - UNIT B**
Scale: 1/8" = 1'-0"



VLK

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2550-01455-00

GALENA PARK ISD
HOUSTON, TEXAS

North Shore Multi-Use Indoor Facility

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
10.08.2025

ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.		Revision Date
1	Addendum 1	10/08/2025

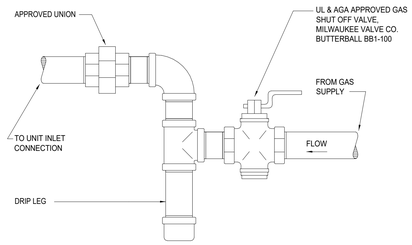
Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

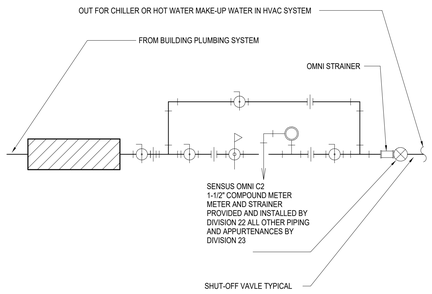
SHEET TITLE
PLUMBING FLOOR PLAN - LEVEL ONE - UNIT B

SHEET NO.
P3.03B

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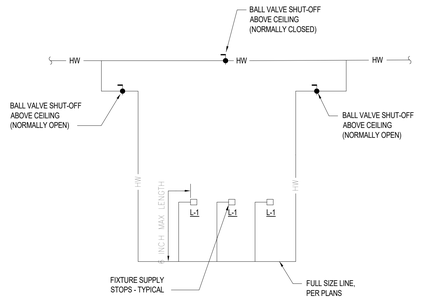


11 GAS CONNECTION
SCALE: NONE



NOTE: PROVIDE WATER SUB METER ON CHILLED AND HOT WATER MAKE-UP LINES.

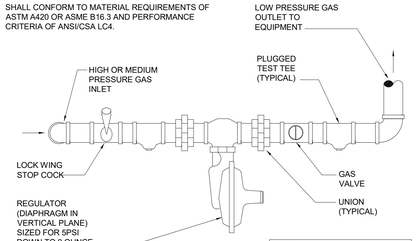
7 MAKE-UP WATER SUB-METER
SCALE: NONE



3 HW CIRCULATION FOR PUBLIC LAVATORIES
SCALE: NONE

PROVIDE AMERICAN METER COMPANY REGULATORS OR APPROVED EQUAL, SUITABLE FOR OUTDOOR INSTALLATION. REGULATORS OUTSIDE EXPOSED TO WEATHER SHALL BE INSTALLED WITH VENT IN VERTICAL DOWN POSITION.

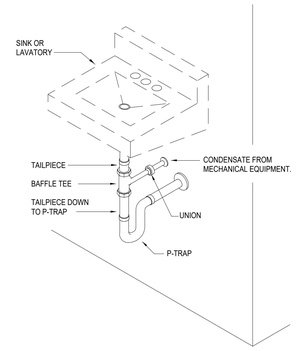
SHALL CONFORM TO MATERIAL REQUIREMENTS OF ASTM A420 OR ASME B16.3 AND PERFORMANCE CRITERIA OF ANSI/CSA LC4.



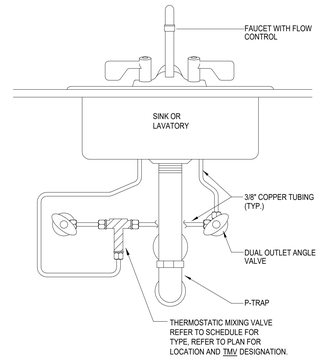
NOTE: REFERENCE DRAWINGS FOR PIPE SIZES.

NOTE:
ALL GAS PRESSURE REGULATOR LOCATED IN PLENUMS ARE TO BE ROUTED TO EXTERIOR

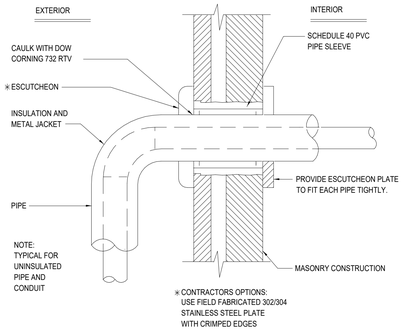
10 GAS PRESSURE REGULATOR INSTALLATION
SCALE: NONE



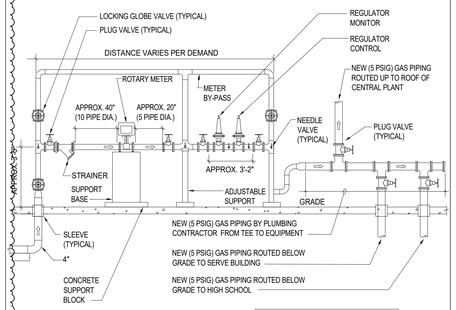
6 BAFFLE TEE CONNECTION
SCALE: NONE



2 POINT OF USE MIXING VALVE
SCALE: NONE



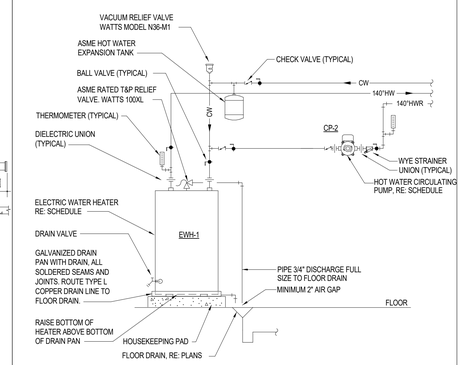
13 EXTERIOR WALL PENETRATION
SCALE: NONE



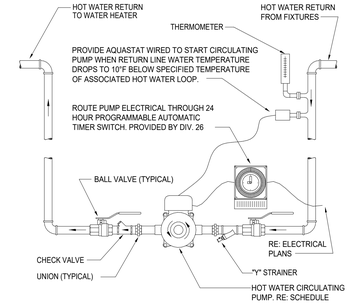
NOTE:
ALL SERVICE GAS PIPING FROM GAS MAIN TO METER OUTLET PROVIDED BY LOCAL GAS COMPANY.

TOTAL GAS DEMAND FOR BUILDING:
0 - 4,000 CFH 12'-0"
4,001 - 6,000 CFH 14'-0"
6,001 - 8,000 CFH 16'-0"
8,001 - 10,000 CFH 18'-0"
10,000 + CFH 22'-0"

9 GAS METER PIPING
SCALE: NONE

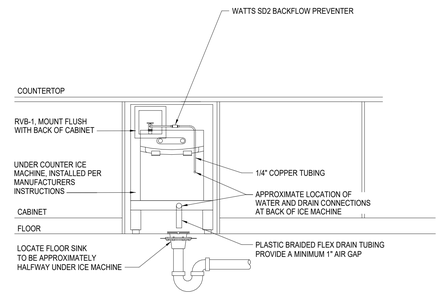


5 ELECTRIC WATER HEATER PIPING
SCALE: NONE

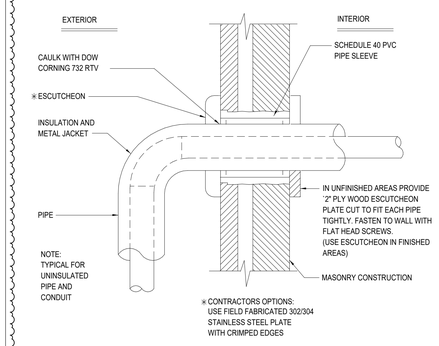


NOTE: MOUNT AT 54"-60" A.F.F. UNLESS NOTED OTHERWISE ON PLANS.

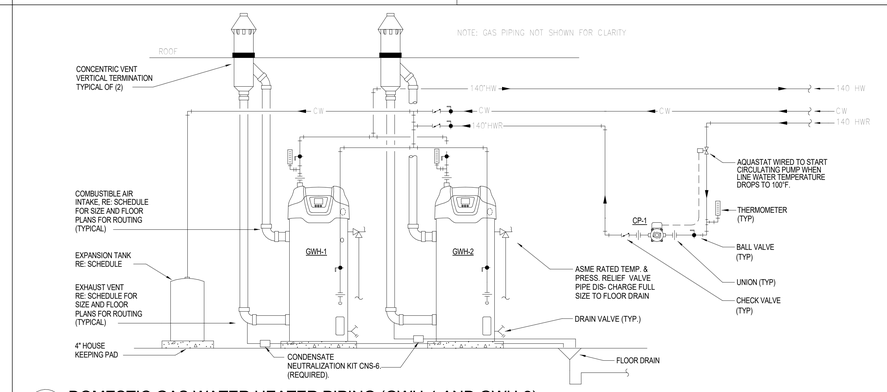
1 HOT WATER CIRCULATING PUMP
SCALE: NONE



12 UNDER COUNTER ICE MACHINE CONNECTION
SCALE: NONE



8 EXTERIOR WALL PENETRATION
SCALE: NONE



4 DOMESTIC GAS WATER HEATER PIPING (GWH-1 AND GWH-2)
SCALE: NONE

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ISSUED: OCTOBER 1, 2025

REVISIONS

Revision No.	Revision Date
1 Addendum 1	10/08/2025

Director	Monika Castillo
Proj. Arch.	Tam Quang
Designer	Designer
Drawn By	Author

PROJECT NO.
25-0056.00

SHEET TITLE
PLUMBING DETAILS

SHEET NO.
P5.02

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GAS WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	STORAGE CAPACITY (GAL)	BTU/HR. INPUT	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR. V	P	MCA	MOCP	REMARKS
GWH-1	AO SMITH	BTH-199A	100 GAL	199	256	140 °F	120	1	0	20	
GWH-2	AO SMITH	BTH-199A	100 GAL	199	256	140 °F	120	1	0	20	
1	INDIVIDUAL VERTICAL 4" CONCENTRIC FLUE VENT FOR EACH WATER HEATER. PROVIDE CONCENTRIC VENT KIT "3006144005". REFER TO DRAWINGS FOR FLUE ROUTING AND LOCATIONS THROUGH ROOF. CONTRACTOR SHALL COORDINATE FLUE LOCATION THROUGH ROOF AND PIPE ROUTING IN CEILING SPACES WITH ALL OTHER DISCIPLES PRIOR TO CONSTRUCTION.										
2	PROVIDE ACR NEUTRALIZING TANK KIT "0007960005"										

NOTE: PROVIDE HOT WATER EXPANSION TANK DOWNSTREAM OF CHECK VALVE ON COLD WATER SUPPLY.

ELECTRIC WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	STORAGE CAPACITY	KW	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR. V	P	MCA	MOCP	REMARKS
EWH-1	AO SMITH	DSE-30A	30 GAL	12.3	50	140	480	3	0	20	

NOTE: PROVIDE HOT WATER EXPANSION TANK DOWNSTREAM OF CHECK VALVE ON COLD WATER SUPPLY.

CIRCULATION PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F	MAX RPM
CP-1	GRUNDFOS	ALPHA HWR 15-55SF	CIRCULATION PUMP	INLINE BRONZE	5	12'-0"	1/25	120	1	60	1750
CP-2	GRUNDFOS	ALPHA HWR 15-55SF	CIRCULATION PUMP	INLINE BRONZE	5	4'-0"	1/25	120	1	60	1750

NOTE: FACTORY SET PUMP TO AUTO-ADAPT SETTING

SHOCK ARRESTORS

P.D.I SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	THREADED CONNECTION
A	1-11	9 5/8"	1/2"
B	12-32	11 3/4"	3/4"
C	33-60	14 11/16"	1"
D	61-113	12 3/8"	1"
E	114-154	15 3/8"	1"
F	155-330	17 3/8"	1"

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSTATE DRAIN PIPING (CD)
D	CONDENSTATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
AIR	COMPRESSED AIR PIPING (A)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
DI	DEMINERALIZATION WATER(DI)
OWS	OIL WATER SEPARATOR
	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
	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
(E)	EXISTING
ETR	EXISTING TO REMAIN
(N)	NEW
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
	NEW CONNECTION
S.F.	SQUARE FEET
TYP	TYPICAL
VTR	VENT THROUGH ROOF
VTA	VENT TO ATMOSPHERE
IE = 100.00	INVERT ELEVATION
1/4" slope	QUARTER OF AN INCH SLOPE
1/8" slope	1/8TH OF AN INCH SLOPE
1/16" slope	1/16TH OF AN INCH SLOPE
	DELTA CHANGE SYMBOL

DISREGARD SYMBOLS AND ABBREVIATIONS NOT USED ON CONTRACT DRAWINGS

PLUMBING FIXTURE SCHEDULE

TYPE: WC-1 (T.A.S. COMPLIANT) - INDIVIDUAL SHOWER STATION
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. WITH EVERCLEAN, AMERICAN STANDARD "AFWALL" 3351.101.
SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. CHURCH 9500SSCT
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, POLISHED CHROME CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28
CARRIER: WADE 311 AND 330 SERIES -AM1.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: WC-X1 (T.A.S. COMPLIANT)
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. WITH EVERCLEAN, AMERICAN STANDARD "AFWALL" 3351.101.
SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. CHURCH 9500SSCT
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, POLISHED CHROME CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28
CARRIER: EXISTING TO REMAIN
ROUGH-IN: RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS

TYPE: WC-2 (STANDARD HEIGHT)
DESCRIPTION: WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. WITH EVERCLEAN, AMERICAN STANDARD "AFWALL" 3351.101.
SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. CHURCH 9500SSCT
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, POLISHED CHROME CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28
CARRIER: WADE 311 AND 330 SERIES -AM1.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: U-1 (T.A.S. COMPLIANT)
DESCRIPTION: URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, SIPHON JET ACTION, INTEGRAL TRAP. AMERICAN STANDARD ALLBROOK 6550.001
FLUSH VALVE: 0.5 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL186-0.5-H-573-CP CAP.
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-AM11.
ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: U-X1 (T.A.S. COMPLIANT)
DESCRIPTION: URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, SIPHON JET ACTION, INTEGRAL TRAP. AMERICAN STANDARD ALLBROOK 6550.001
FLUSH VALVE: 0.5 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL186-0.5-H-573-CP CAP.
CARRIER: EXISTING TO REMAIN
ROUGH-IN: RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS

TYPE: L-1 (T.A.S. COMPLIANT) - HOT AND COLD WATER
DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. 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 OUTLET. CHICAGO MODEL 857-E2805-765PSHAB.
MIXING VALVE: PROVIDE ASSE 1070 RATED LAWLER MODEL 570-38 POINT OF USE THERMOSTATIC MIXING VALVE AT LAVATORY TO TEMPER OUTLET WATER SUPPLY TO 105° WITH 0.5 GPM FLOW RATE
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.
CARRIER: EXISTING TO REMAIN
ROUGH-IN: RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS

TYPE: L-X1 (T.A.S. COMPLIANT) - HOT AND COLD WATER
DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. 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 OUTLET. CHICAGO MODEL 857-E2805-765PSHAB.
MIXING VALVE: PROVIDE ASSE 1070 RATED LAWLER MODEL 570-38 POINT OF USE THERMOSTATIC MIXING VALVE AT LAVATORY TO TEMPER OUTLET WATER SUPPLY TO 105° WITH 0.5 GPM FLOW RATE
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.
CARRIER: EXISTING TO REMAIN
ROUGH-IN: RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS

TYPE: L-X2 (T.A.S. COMPLIANT) - HOT AND COLD WATER
DESCRIPTION: LAVATORY; WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012.
FAUCET: 4" FIXED CENTERS, SINGLE LEVER HOT AND COLD WATER, THERMOSTATIC MIXING FAUCET. CERAMIC MIXING CARTRIDGE (ASSE 1070 CERTIFIED) INCLUDES SCALD PROTECTION AND INTEGRAL INLET CHECK VALVES, 0.5 GPM AERATOR. HOT WATER INLET TEMPERATURE 100° - 180°, MAXIMUM HOT WATER OUTLET TEMPERATURE OF 105° MINIMUM FLOW RATE FOR TEMPERATURE LIMITING OF 0.35 GPM. MAXIMUM EMERGENCY TEMPERATURE OUT AT COLD WATER FAILURE: 120°. CHICAGO MODEL 420-T41E2805ABCP
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.
P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.
CARRIER: EXISTING TO REMAIN
ROUGH-IN: RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS

TYPE: SK-1 (T.A.S. COMPLIANT)
DESCRIPTION: SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 29" X 18" X 6" DEEP, DOUBLE COMPARTMENT WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS. ELKAY LRAD291860
FAUCET: 8" CENTERS, 4" CHROME PLATED WRIST BLADE HANDLES, CERAMIC DISC CARTRIDGES, 8" CHROME PLATED BRASS SWING SPOUT WITH 2.2 GPM AERATOR. CHICAGO 1100-317XKABCP
STRAINER: (2) CHROME PLATED BRASS WIDE TOP SINK STRAINERS WITH PERFORATED STRAINERS, 1-1/2" CHROME PLATED BRASS OFFSET TAILPIECES WITH CAST BRASS ELBOW. MCGUIRE 1152WC.
P-TRAP: 1-1/2" END OUTLET 16" CENTERS 17 GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE. MCGUIRE 111C16G17. 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912C.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES WITH ESCUTCHEONS 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: MS-1
DESCRIPTION: MOP SINK BASIN, 32" X 32" X 12" HIGH CORNER TYPE. PRECAST TERRAZZO WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND DOUBLE STAINLESS STEEL WALL GUARDS. STERN-WILLIAMS "CORLOW" SBC-1725 WITH BP SPLASH PANELS, #T-40 MOP HANGER, AND #T-35 HOSE.
FAUCET: CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. CERAMIC DISC CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. CHICAGO #445-897SRCXKCP.
ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.

TYPE: WP-1 - (T.A.S. COMPLIANT) WHIRLPOOL THERAPEUTIC TUB
DESCRIPTION: THERAPEUTIC TUB BY OWNER, CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ROUGH-IN AND FINAL CONNECTIONS.
FAUCET: SOLID BIMETAL THERMOSTAT, ASSE 1017 CERTIFIED MIXING VALVE. ADJUSTABLE HIGH TEMPERATURE LIMIT STOP SET FOR 120°, BOTTOM INLETS, SIDE OUTLET. OUTLET VOLUME CONTROL/SHUTOFF WITH VACUUM BREAKER. INTEGRAL COMBINATIOLN CHECK STOPS WITH WALL SUPPORT PROVIDE WITH 6' RUBBER HOSE ATTACHMENT AND WALL HOOK. LEONARD TM-504-26-LF.
ROUGH-IN: 3/4" HOT AND COLD WATER

TYPE: SH-X1 (T.A.S. COMPLIANT) - INDIVIDUAL SHOWER STATION
DESCRIPTION: SHOWER, JOB BUILT BASE INSTALLED PER ARCHITECTURAL DRAWINGS.
CONTROLS: PRESSURE BALANCING HOT AND COLD WATER SHOWER CONTROL VALVE WITH VANDAL RESISTANT LEVER HANDLE, INTEGRAL CHECKSTOPS, AND ADJUSTABLE TEMPERATURE LIMIT SCREW NOT TO EXCEED 120°. CAST BRASS VALVE BODY. ALL EXPOSED MATERIALS STAINLESS STEEL OR CHROME PLATED BRASS. 1.5 GPM HAND HELD SHOWER WITH 60" METAL CLAD FLEXIBLE HOSE. CHROME PLATED BRASS SUPPLY ARM, VACUUM BREAKER, MOUNTING BRACKET AND 24" METAL SLIDE BAR. BRADLEY 1C-HD-AKV-A24.
DRAIN: EXISTING DRAIN TO REMAIN, CLEAN AND RESTORE STRAINER TO LIKE NEW CONDITION. REPLACE IF CRACKED OR BROKEN.
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: EDF-1 (T.A.S. COMPLIANT)
DESCRIPTION: WALL HUNG, BARRIER FREE, SELF-CONTAINED, SPLIT-LEVEL ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLING STATION & BI-LEVEL ADA COOLER REFRIGERATED ULTRA-CAPACITY LEAD REDUCTION. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 □ F DRINKING WATER, BASED ON 80 □ F INLET WATER AND 90 □ F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL*, AUTOMATIC FILTER STATUS RESET, ENERGY SAVINGS, FILTERED, GREEN TICKER™, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, ALCOVE LIGHT, PRO FILTRATION SYSTEM, TOP MOUNT QUICK FILTER CHANGE, STAINLESS STEEL ALCOVE, AUTOMATIC FILTER FLUSH. FURNISHED WITH FLEXI-GUARD ® SAFETY BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH. NOTE: UNIT SHOULD BE ABLE TO DISPENSE UNCHILLED WATER DURING A POWER OUTAGE.
P-TRAP: ELKAY LZSTL8WSBPRO WITH APRON 98324C.
SUPPLIES: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872.
CARRIER: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165LK.
ROUGH-IN: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE 403-BL-BFS
2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: EDF-X1 (T.A.S. COMPLIANT)
DESCRIPTION: WALL HUNG, BARRIER FREE, SELF-CONTAINED, SPLIT-LEVEL ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLING STATION & BI-LEVEL ADA COOLER REFRIGERATED ULTRA-CAPACITY LEAD REDUCTION. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 □ F DRINKING WATER, BASED ON 80 □ F INLET WATER AND 90 □ F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL*, AUTOMATIC FILTER STATUS RESET, ENERGY SAVINGS, FILTERED, GREEN TICKER™, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, ALCOVE LIGHT, PRO FILTRATION SYSTEM, TOP MOUNT QUICK FILTER CHANGE, STAINLESS STEEL ALCOVE, AUTOMATIC FILTER FLUSH. FURNISHED WITH FLEXI-GUARD ® SAFETY BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH. NOTE: UNIT SHOULD BE ABLE TO DISPENSE UNCHILLED WATER DURING A POWER OUTAGE.
P-TRAP: ELKAY LZSTL8WSBPRO WITH APRON 98324C.
SUPPLIES: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872.
CARRIER: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165LK.
ROUGH-IN: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE 403-BL-BFS
2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: HB-1 - COLD WATER
DESCRIPTION: HOSE BIBB. EXPOSED TYPE, MILD CLIMATE, WALL-MOUNTED FAUCET WITH 3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRASS FINISH WITH REMOVABLE TEE HANDLE. CHICAGO 952-XKCP.
ROUGH-IN: 3/4" COLD WATER. INSTALL WITH OUTLET AT 18" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER.

TYPE: WH-1
DESCRIPTION: WALL HYDRANT, CONCEALED BOX TYPE, 3/4" NON-FREEZE, CHROME PLATED BRASS FINISH WITH ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF BOX 18" AFF WOODFORD MODEL B65
ROUGH-IN: 3/4" HOT AND COLD WATER

TYPE: RVB-1
DESCRIPTION: REFRIGERATOR VALVE BOX, 10-3/4" X 9", 16 GAUGE STEEL WITH EPOXY FINISH, 5/8" O.D. SWEAT CONNECTION. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER.
ROUGH-IN: 1/2" COLD WATER

TYPE: IMC-1
DESCRIPTION: ICE MACHINE CONNECTION, WATER SUPPLY VALVED AT WALL. PROVIDE DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER AND WATER FILTER. WATTS 007-S BACKFLOW PREVENTER, AQUA-PURE AP510 FILTER. ROUTE BACKFLOW PREVENTER DISCHARGE TO FLOOR SINK SERVING ICE MACHINE.
ROUGH-IN: 3/4" COLD WATER. COORDINATE ROUGH-IN LOCATION/HEIGHT, FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECTURAL/CASEWORK DRAWINGS.

TYPE: TP-1
SERVICE: SERVES ONE FLOOR DRAIN TRAP.
DESCRIPTION: FLUSH VALVE TRAP PRIMER, 1-1/2" O.D. X 12" 17 GAUGE PRIMING TUBE WITH VACUUM BREAKER. PRECISION PLUMBING PRODUCTS FVP-1VB.

TYPE: TP-2
SERVICE: SERVES 1 TO 30 FLOOR DRAIN/FLOOR SINK TRAPS, REFER TO PLANS.
DESCRIPTION: ELECTRONIC TRAP PRIMER WITH DISTRIBUTION MANIFOLD AND CABINET. SURFACE MOUNT IN WHERE SHOWN. PRECISION PLUMBING PRODUCTS PRIME TIME MODEL PT SERIES OR MIFAB MI-100-32.
ROUGH-IN: 3/4" COLD WATER

TYPE: FD-1
SERVICE: TOILET ROOMS AND GENERAL USE
DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET WITH PLUGGED TRAP PRIMER CONNECTION. WADE 1100-MR6-85.
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

1

TYPE: FD-2
SERVICE: TOILET ROOMS AND GENERAL USE
DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET WITH PLUGGED TRAP PRIMER CONNECTION. WADE 1100-MR6-85.
TRAP SEAL: TRAP SERVED BY TRAP PRIMING DEVICE RE: ASSOCIATED PLAN FOR TYPE
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

TYPE: FD-3
SERVICE: MECH ROOM/CENTRAL PLANT
DESCRIPTION: FLOOR DRAIN, HEAVY DUTY PAINTED CAST IRON BODY, 12" DIAMETER LOOSE SET DUCTILE IRON GRATE WITH SATIN FINISH 304 STAINLESS STEEL VENEER, MEDIUM DUTY SUMP, SEDIMENT BUCKET, INTEGRAL CLAMPING COLLAR. LOOSE SET ALUMINUM SEDIMENT BUCKET. WADE 1210-304-27.
TRAP SEAL: TRAP SERVED BY TRAP PRIMING DEVICE RE: ASSOCIATED PLAN FOR TYPE
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.

TYPE: FS-1
SERVICE: WHIRLPOOL THERAPEUTIC TUB/EQUIPMENT INDIRECT
DESCRIPTION: A.R.C. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, ALUMINUM DOME SECONDARY STRAINER, CLAMPING DEVICE WITH STAINLESS STEEL HALF TOP GRATE AND BOTTOM OUTLET WADE 9140-15-26-48-85
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.

TYPE: FS-2
SERVICE: MECHANICAL ROOM/EQUIPMENT INDIRECT
DESCRIPTION: A.R.C. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, ALUMINUM DOME SECONDARY STRAINER, CLAMPING DEVICE WITH STAINLESS STEEL HALF TOP GRATE. BOTTOM OUTLET WITH 1/2" TRAP PRIMER CONNECTION. WADE 9140-6-15-26-48-85.
TRAP SEAL: TRAP SERVED BY TRAP PRIMING DEVICE RE: ASSOCIATED PLAN FOR TYPE
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.

TYPE: FS-3
SERVICE: ICE MACHINE DRAIN / BACKFLOW PREVENTER DISCHARGE
DESCRIPTION: CAST IRON 8" SQUARE FLOOR SINK WITH 6" DEEP SUMP, A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER, 1/2 STAINLESS STEEL TOP, CLAMPING DEVICE. WADE 9110-15-26-27-SS.
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS / EQUIPMENT PLACEMENT.

TYPE: RD-1
DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROO

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CATWALK C153
IT ROOM C151
MECH STAIR C11
FOOTBALL EQUIP. ROOM C150
NORTHWEST HALL C149
WEIGHT ROOM C148
ENTRANCE HALL C147
STORAGE C141A
MECHANICAL C131
PLAYER MEETING ROOM 4 C130D
PLAYER MEETING ROOM 3 C130C
PLAYER MEETING ROOM 2 C130B
PLAYER MEETING ROOM 1 C130A
CORRIDOR C103
SERVING HALL C132
TLT C134
ICE BATHS C135
LAUNDRY C137
TLT C140
MECHANICAL C141
MEN'S C146
JV LOCKERS C133
LAUNDRY DISTRIBUTION C136
ICE BATHS C139
VARSITY LOCKERS C138
EAST HALL C142
WOMEN'S C145
JAN. C144
LOUNGE C143
CORRIDOR C102
CORRIDOR C101
WOMENS C127
MEN'S C126
THERAPY C128
EXAM ROOM C129
TRAINERS ROOM C122
CORRIDOR C104
MEN'S C121
WOMEN'S C120
COACHES RR C118
COACHES LOCKER C117
HALL C119
STORAGE C112
MECHANICAL C108
CONF. ROOM C105
ELECTRICAL C109
HALL C10
STORAGE C125
TRAINER'S OFFICE C124
TRAINER'S OFFICE C123
COACHES' OFFICE C116
STORAGE C111
HEAD COACH C106
RR C107

1 DW-100.1 OVERALL FLOOR PLAN - LEVEL 1

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

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

DRAWING INDEX

DW-100.1-100.5	LEVEL 1 FLOOR PLANS
DW-100.6	HIGHLIGHTED DIRTT SCOPE
DW-200.1-200.3	WALL ELEVATIONS w/ FINISH SCHEDULE
DW-300.1	CASEWORK ELEVATIONS
DW-400.1	INTERSECTION DETAILS
	DOOR SCHEDULE
DW-500.1	WALL DETAILS

Project Name:

NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

-	30Sept25 Preliminary Shops	KA
-	07Oct25 Revisions	KA

Project:	158938
Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

FLOOR PLAN - FIRST FLOOR

DW-100.1

A B C D

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MECHANICAL
C131

PLAYER
MEETING
ROOM
4
C130D

PLAYER
MEETING
ROOM
3
C130C

PLAYER
MEETING
ROOM
2
C130B

PLAYER
MEETING
ROOM
1
C130A

CORRIDOR
C103

CORRIDOR
C102

TLT
C134

JV
LOCKERS
C133

SERVING
HALL
C132

WOMENS
C127

MEN'S
C126

THERAPY
C128

EXAM
ROOM
C129

TRAINERS
ROOM
C122

STORAGE
C125

TRAINER'S
OFFICE
C124

TRAINER'S
OFFICE
C123

Backlit Graphic & Soffit by DIRTT

1 DW-100.2 OVERALL FLOOR PLAN - LEVEL 1 - QUADRANT C

SCALE : 1/4"= 1'-0"

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

DRAWING INDEX

DW-100.1-100.5	LEVEL 1 FLOOR PLANS
DW-100.6	HIGHLIGHTED DIRTT SCOPE
DW-200.1-200.3	WALL ELEVATIONS w/ FINISH SCHEDULE
DW-300.1	CASEWORK ELEVATIONS
DW-400.1	INTERSECTION DETAILS
	DOOR SCHEDULE
DW-500.1	WALL DETAILS

Project Name:
NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

-	30Sept25 Preliminary Shops	KA
-	07Oct25 Revisions	KA

Project:	158938
Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

A B C D

FLOOR PLAN - FIRST FLOOR
AREA C

DW-100.2

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ICE BATHS C135
LAUNDRY C137
TLT C140
MECHANICAL C141
ICE BATHS C139
VARSITY LOCKERS C138
LAUNDRY DISTRIBUTION C136
EAST HALL C142
MEN'S C146
WOMEN'S C145
JAN. C144
LOUNGE C143
CORRIDOR C101
CORRIDOR C104
MEN'S C121
WOMEN'S C120
COACHES RR C118
COACHES LOCKER C117
HALL C119
STORAGE C112
MECHANICAL C108
ELECTRICAL C109
CONF. ROOM C105
HALL C10
COACHES' OFFICE C116
STORAGE C111
HEAD COACH C106
RR C107

1 OVERALL FLOOR PLAN - LEVEL 1 - QUADRANT D
DW-100.3

SCALE : 1/4"= 1'-0"

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

DRAWING INDEX

DW-100.1-100.5	LEVEL 1 FLOOR PLANS
DW-100.6	HIGHLIGHTED DIRTT SCOPE
DW-200.1-200.3	WALL ELEVATIONS w/ FINISH SCHEDULE
DW-300.1	CASEWORK ELEVATIONS
DW-400.1	INTERSECTION DETAILS
	DOOR SCHEDULE
DW-500.1	WALL DETAILS

Project Name:
NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

-	30Sept25	Preliminary Shops	KA
-	07Oct25	Revisions	KA

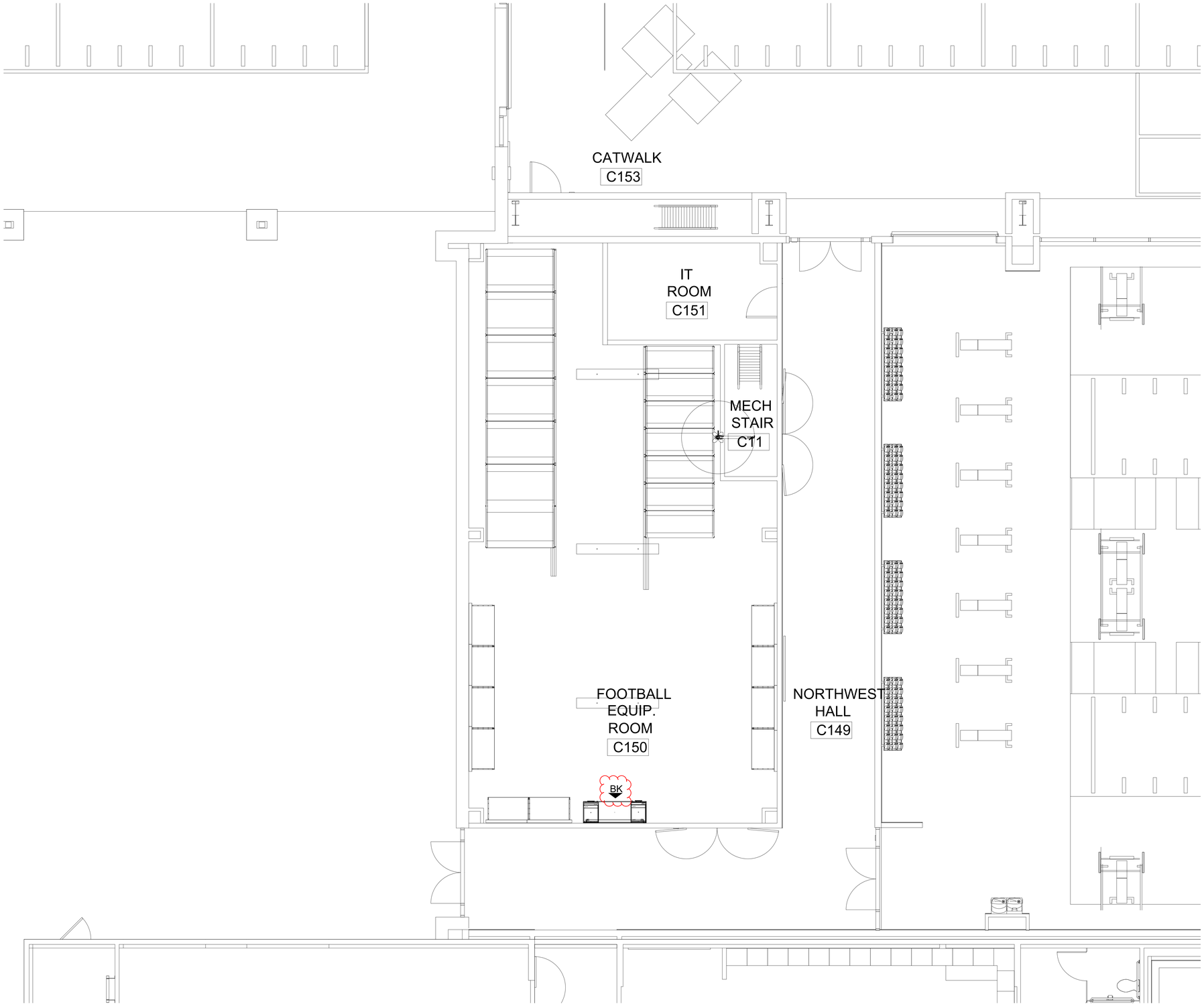
A B C D

Project:	158938
Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

FLOOR PLAN - FIRST FLOOR
AREA D

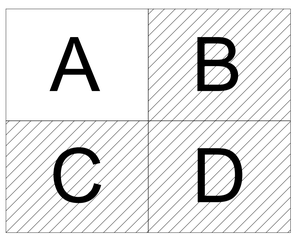
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1 OVERALL FLOOR PLAN - LEVEL 1 - QUADRANT A
DW-100.5

SCALE : 1/4"= 1'-0"



PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

DRAWING INDEX

DW-100.1-100.5	LEVEL 1 FLOOR PLANS
DW-100.6	HIGHLIGHTED DIRTT SCOPE
DW-200.1-200.3	WALL ELEVATIONS w/ FINISH SCHEDULE
DW-300.1	CASEWORK ELEVATIONS
DW-400.1	INTERSECTION DETAILS
	DOOR SCHEDULE
DW-500.1	WALL DETAILS

Project Name:

NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

-	30Sept25	Preliminary Shops	KA
-	07Oct25	Revisions	KA

Project:	158938
Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

FLOOR PLAN - FIRST FLOOR AREA A

DW-100.5

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1 HIGHLIGHT FLOOR PLAN - LEVEL 1
DW-100.6

SCALE : 1/4"= 1'-0"

COLOR LEGEND

- 4" GLASS WALL
- 4" SOLID WALL
- 2" FURRING WALL
- 4" FURRING WALL
- CASEWORK

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

DRAWING INDEX

DW-100.1-100.5	LEVEL 1 FLOOR PLANS
DW-100.6	HIGHLIGHTED DIRTT SCOPE
DW-200.1-200.3	WALL ELEVATIONS w/ FINISH SCHEDULE
DW-300.1	CASEWORK ELEVATIONS
DW-400.1	INTERSECTION DETAILS DOOR SCHEDULE
DW-500.1	WALL DETAILS

Project Name:

NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

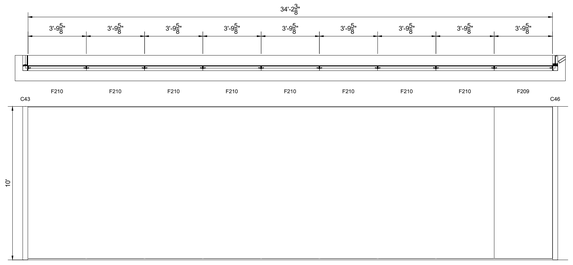
-	30Sept25	Preliminary Shops	KA
-	07Oct25	Revisions	KA

Project:	158938
Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

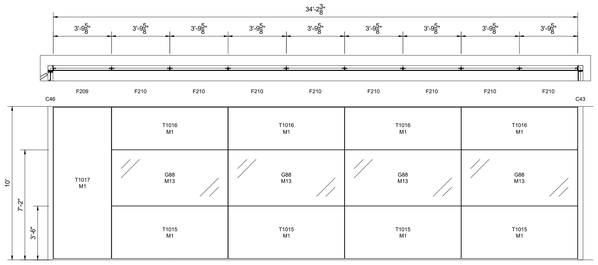
HIGHLIGHTED PLAN
LEVEL 1

DW-100.6

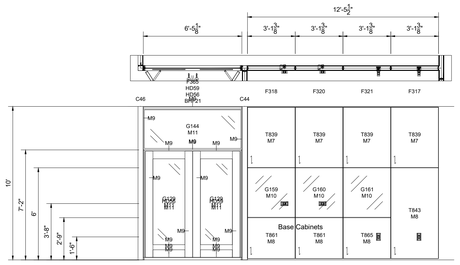
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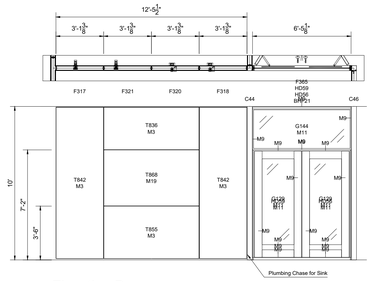
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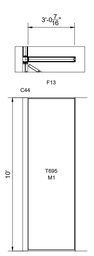
Elevation B



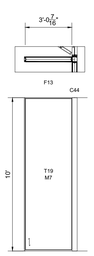
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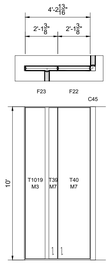
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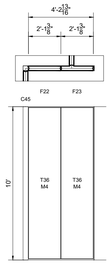
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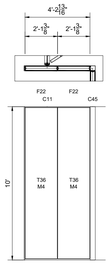
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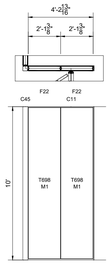
Elevation G



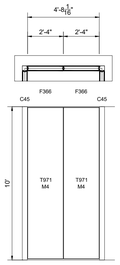
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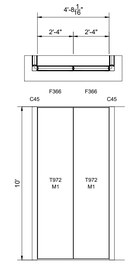
Elevation I



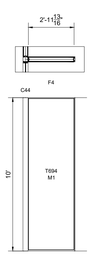
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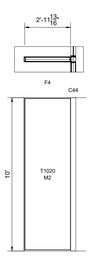
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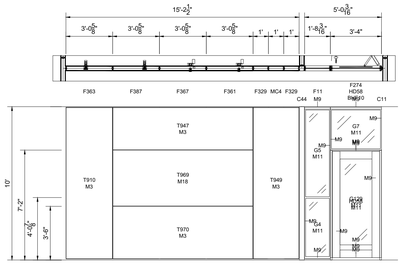
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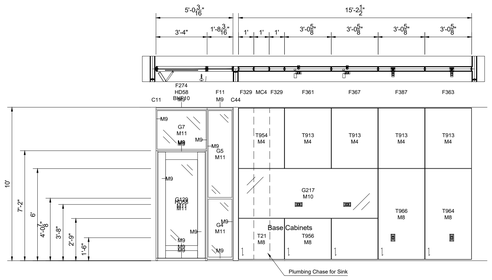
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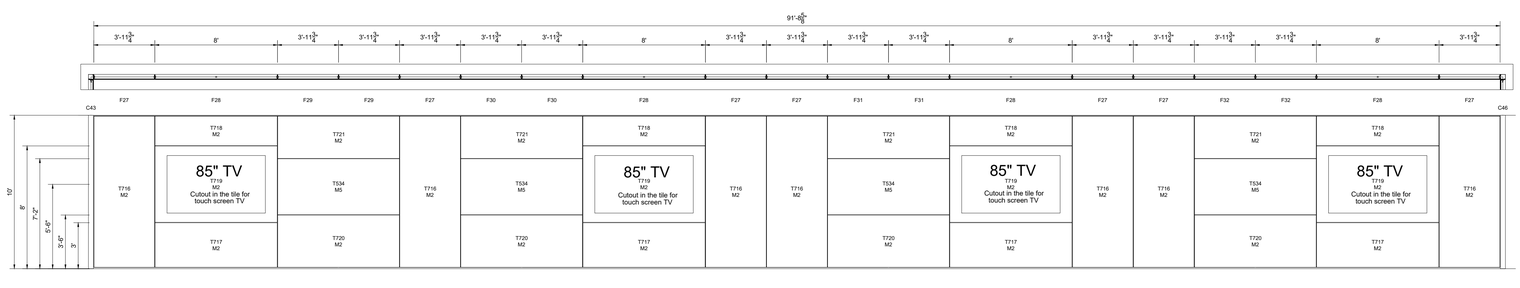
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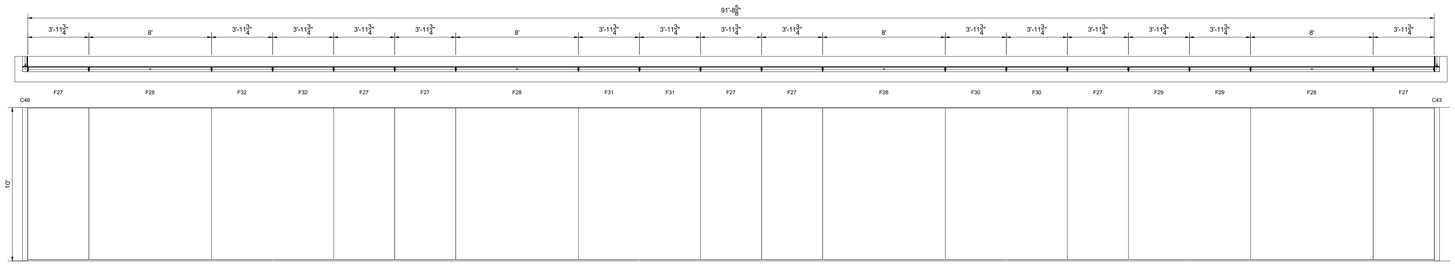
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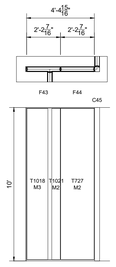
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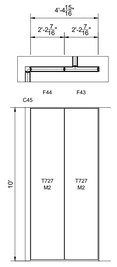
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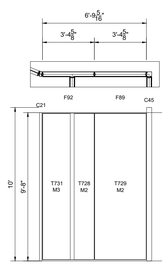
Elevation R



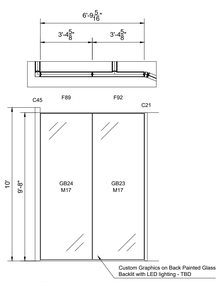
Elevation S



Elevation T



Elevation U



Elevation V

1 ELEVATIONS
DW-200.1

1/4" = 1'-0" / 1:48.000002

DIRTT Walls Finish Schedule

Tag	Finish	Specification	Total
M1	PNT	PT-01 SW 7631 City Loft - Standard; Custom ChromacoatPlus	890.93 sq. ft.
M2	PNT	PT-2 SW 7674 Peppercorn - Standard; Custom ChromacoatPlus	1293.09 sq. ft.
M3	PNT	PT-3 SW 6871 Positive Red - Standard; Custom ChromacoatPlus	502.76 sq. ft.
M4	PNT	DIRTT ChromacoatPlus Grade 1; ChromacoatPlus - Black DC63; UC-50004	186.55 sq. ft.
M5	MCF	WriteAway: Slate Grey Gloss	115.36 sq. ft.
M6	THRM	Thermofoil Grade 2; DIRTT SSI Thermofoil Merapi	450.93 sq. ft.
M7	THRM	Thermofoil Grade 1; DIRTT SSI Thermofoil Black	410.75 sq. ft.
M8	THRM	Thermofoil Grade 2; DIRTT SSI Thermofoil Canadian Grey Super Matte	102.57 sq. ft.
M9	PWD	DIRTT Powder Coated Standard; Powder Coat - Black DP13 (Textured)	732.85 sq. ft.
M10	GLS	Custom Glass Material; Match PT-3 Positive Red SW; Custom Glass (Send to DIRTT for pricing); Flat Polish All Edges; 6.0; Flat Polish all edges; 6.0mm	203.56 sq. ft.
M11	GLS	Center Mounted Tempered Glass Tile; 6mm Tempered Glass - Clear; No Edge Polish; 6.0mm	209.28 sq. ft.
M12	GLS	Grade 1 (Non-metallic) Backpaint; Clear Glass: Rich Black DG56; Flat Polish all edges; 6.0mm	149.0 sq. ft.
M13	GLS	Grade 1 (Non-metallic) Backpaint; Starphire Glass: Snow White DG54; Flat Polish all edges; 6.0mm	259.12 sq. ft.
M14	GLS_Graphic	Starphire Glass; Custom Image; LED Logo1; Custom Image; Flat Polish all edges;6.0mm	97.63 sq. ft.
M15	MCF	WriteAway: Onyx Gloss; .022mm CRS - Porcelain coated white laminate	139.75 sq. ft.
M16	MCF_Graphic	Custom Image; Football Field - Gloss; Custom Image; .022mm CRS - Porcelain coated white laminate	43.42 sq. ft.
M17	GLS_Graphic	Starphire Glass; Custom Image; player; Custom Image; Flat Polish all edges;6.0mm	63.91 sq. ft.
M18	MCF_Graphic	Custom Image; Football Field 2 - Gloss; Custom Image	33.18 sq. ft.
M19	MCF_Graphic	Custom Image; FF4 - Gloss; Custom Image; .022mm CRS - Porcelain coated white laminate	22.55 sq. ft.

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

Project Name:

NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

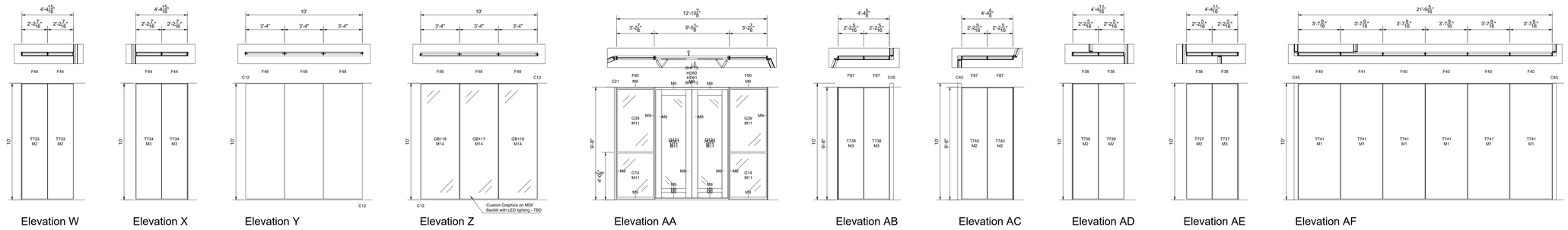
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-	07Oct25	Revisions	KA

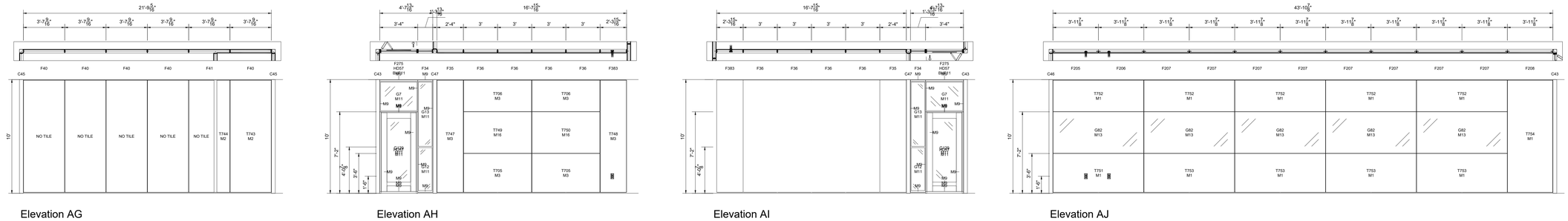
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Drawn by: ----
Scale: AS NOTED
Plot Date: 2025/10/07
Contact: ----
Contact Number: ----

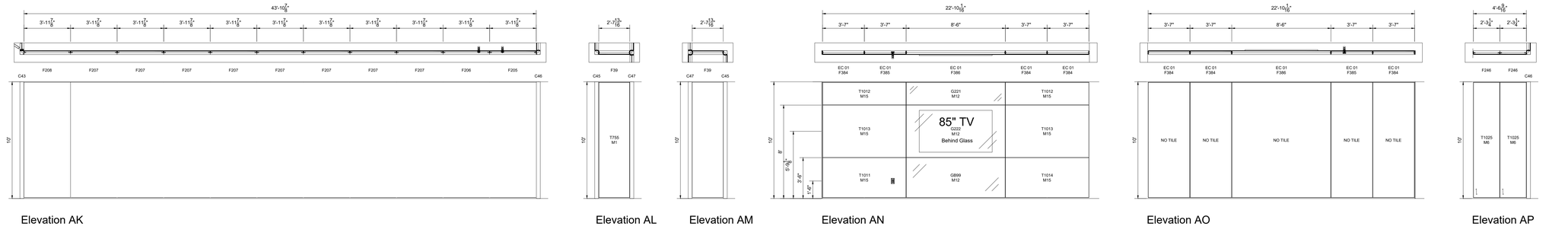
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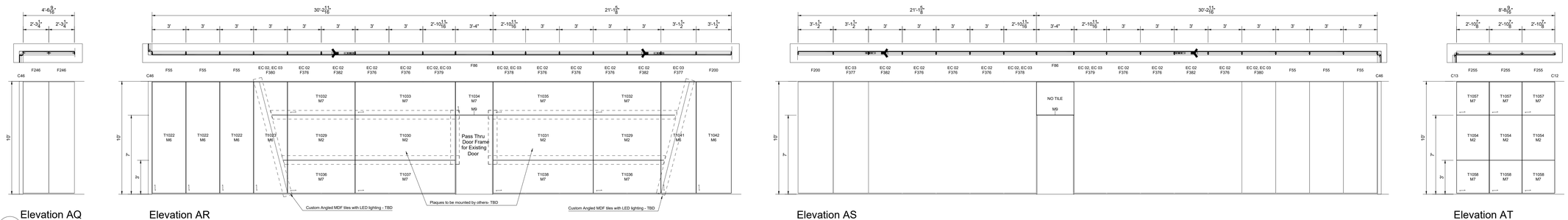
DW-200.1

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1 ELEVATIONS
DW-200.2

1/4" = 1'-0" / 1:48.000002

DIRTT Walls Finish Schedule

Tag	Finish	Specification	Total
M1	PNT	PT-01 SW 7631 City Loft - Standard; Custom ChromacoatPlus	890.93 sq. ft.
M2	PNT	PT-2 SW 7674 Peppercorn - Standard; Custom ChromacoatPlus	1293.09 sq. ft.
M3	PNT	PT-3 SW 6871 Positive Red - Standard; Custom ChromacoatPlus	502.76 sq. ft.
M4	PNT	DIRTT ChromacoatPlus Grade 1; ChromacoatPlus - Black DC63; UC-50004	186.55 sq. ft.
M5	MCF	WriteAway: Slate Grey Gloss	115.36 sq. ft.
M6	THRM	Thermofoil Grade 2; DIRTT SSI Thermofoil Merapi	450.93 sq. ft.
M7	THRM	Thermofoil Grade 1; DIRTT SSI Thermofoil Black	410.75 sq. ft.
M8	THRM	Thermofoil Grade 2; DIRTT SSI Thermofoil Canadian Grey Super Matte	102.57 sq. ft.
M9	PWD	DIRTT Powder Coated Standard; Powder Coat - Black DP13 (Textured)	732.85 sq. ft.
M10	GLS	Custom Glass Material; Match PT-3 Positive Red SW; Custom Glass (Send to DIRTT for pricing); Flat Polish All Edges; 6.0; Flat Polish all edges; 6.0mm	203.56 sq. ft.
M11	GLS	Center Mounted Tempered Glass Tile; 6mm Tempered Glass - Clear; No Edge Polish; 6.0mm	209.28 sq. ft.
M12	GLS	Grade 1 (Non-metallic) Backpaint; Clear Glass: Rich Black DG56; Flat Polish all edges; 6.0mm	149.0 sq. ft.
M13	GLS	Grade 1 (Non-metallic) Backpaint; Starphire Glass: Snow White DG54; Flat Polish all edges; 6.0mm	259.12 sq. ft.
M14	GLS_Graphic	Starphire Glass; Custom Image; LED Logo1; Custom Image; Flat Polish all edges;6.0mm	97.63 sq. ft.
M15	MCF	WriteAway: Onyx Gloss; .022mm CRS - Porcelain coated white laminate	139.75 sq. ft.
M16	MCF_Graphic	Custom Image; Football Field - Gloss; Custom Image; .022mm CRS - Porcelain coated white laminate	43.42 sq. ft.
M17	GLS_Graphic	Starphire Glass; Custom Image; player; Custom Image; Flat Polish all edges;6.0mm	63.91 sq. ft.
M18	MCF_Graphic	Custom Image; Football Field 2 - Gloss; Custom Image	33.18 sq. ft.
M19	MCF_Graphic	Custom Image; FF4 - Gloss; Custom Image; .022mm CRS - Porcelain coated white laminate	22.55 sq. ft.

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

Project Name:

NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

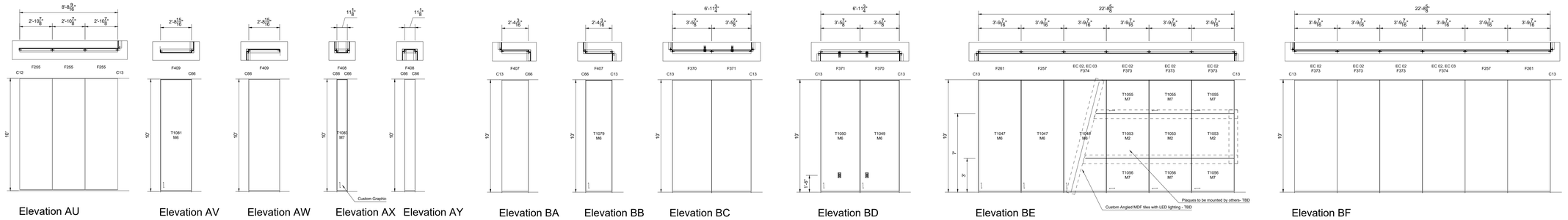
Rev	Date	Revision	Initial
-	30Sept25	Preliminary Shops	KA
-	07Oct25	Revisions	KA

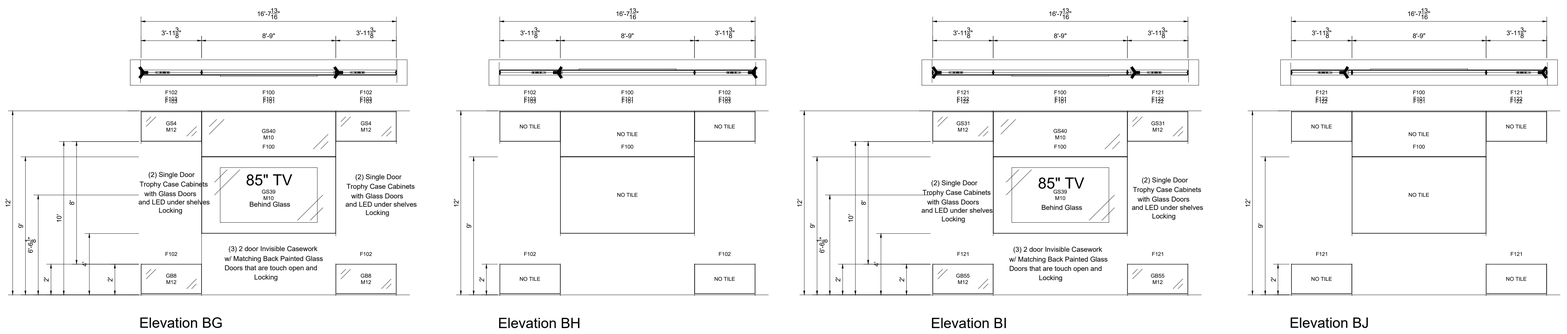
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Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

ELEVATIONS

DW-200.2

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1 ELEVATIONS
DW-200.3

1/4" = 1'-0" / 1:48.000004

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

DIRTT Walls Finish Schedule			
Tag	Finish	Specification	Total
M1	PNT	PT-01 SW 7631 City Loft - Standard; Custom ChromacoatPlus	890.93 sq. ft.
M2	PNT	PT-2 SW 7674 Peppercorn - Standard; Custom ChromacoatPlus	1293.09 sq. ft.
M3	PNT	PT-3 SW 6871 Positive Red - Standard; Custom ChromacoatPlus	502.76 sq. ft.
M4	PNT	DIRTT ChromacoatPlus Grade 1; ChromacoatPlus - Black DC63; UC-50004	186.55 sq. ft.
M5	MCF	WriteAway; Slate Grey Gloss	115.36 sq. ft.
M6	THRM	Thermofoil Grade 2; DIRTT SSI Thermofoil Merapi	450.93 sq. ft.
M7	THRM	Thermofoil Grade 1; DIRTT SSI Thermofoil Black	410.75 sq. ft.
M8	THRM	Thermofoil Grade 2; DIRTT SSI Thermofoil Canadian Grey Super Matte	102.57 sq. ft.
M9	PWD	DIRTT Powder Coated Standard; Powder Coat - Black DP13 (Textured)	732.85 sq. ft.
M10	GLS	Custom Glass Material; Match PT-3 Positive Red SW; Custom Glass (Send to DIRTT for pricing); Flat Polish All Edges; 6.0; Flat Polish all edges; 6.0mm	203.56 sq. ft.
M11	GLS	Center Mounted Tempered Glass Tile; 6mm Tempered Glass - Clear; No Edge Polish; 6.0mm	209.28 sq. ft.
M12	GLS	Grade 1 (Non-metallic) Backpaint; Clear Glass: Rich Black DG56; Flat Polish all edges; 6.0mm	149.0 sq. ft.
M13	GLS	Grade 1 (Non-metallic) Backpaint; Starphire Glass: Snow White DG54; Flat Polish all edges; 6.0mm	259.12 sq. ft.
M14	GLS_Graphic	Starphire Glass; Custom Image; LED Logo1; Custom Image; Flat Polish all edges;6.0mm	97.63 sq. ft.
M15	MCF	WriteAway: Onyx Gloss; .022mm CRS - Porcelain coated white laminate	139.75 sq. ft.
M16	MCF_Graphic	Custom Image; Football Field - Gloss; Custom Image; .022mm CRS - Porcelain coated white laminate	43.42 sq. ft.
M17	GLS_Graphic	Starphire Glass; Custom Image; player; Custom Image; Flat Polish all edges;6.0mm	63.91 sq. ft.
M18	MCF_Graphic	Custom Image; Football Field 2 - Gloss; Custom Image	33.18 sq. ft.
M19	MCF_Graphic	Custom Image; FF4 - Gloss; Custom Image; .022mm CRS - Porcelain coated white laminate	22.55 sq. ft.

Project Name:

NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

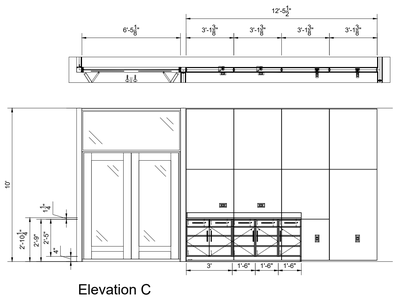
Rev	Date	Revision	Initial
-	30Sept25	Preliminary Shops	KA
-	07Oct25	Revisions	KA

Project: 158938
Drawn by: ----
Scale: AS NOTED
Plot Date: 2025/10/07
Contact: ----
Contact Number: ----

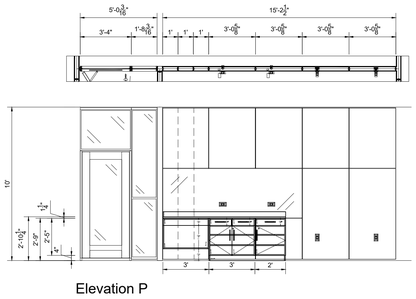
ELEVATIONS

DW-200.3

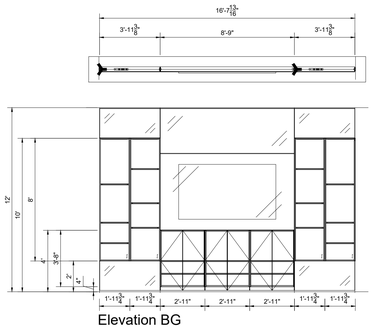
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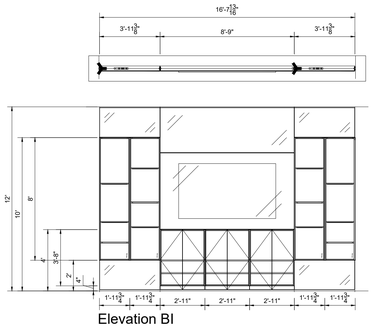
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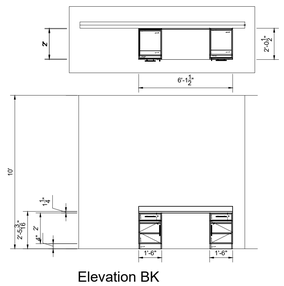
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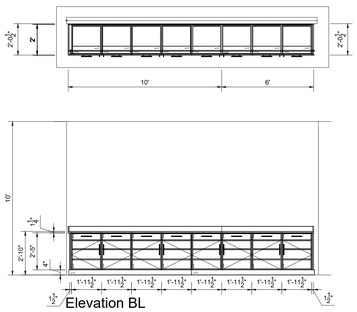
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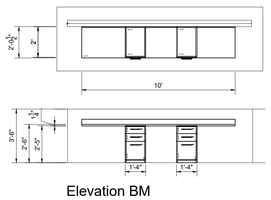
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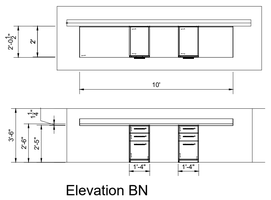
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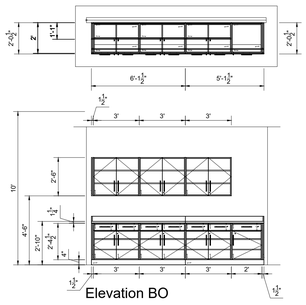
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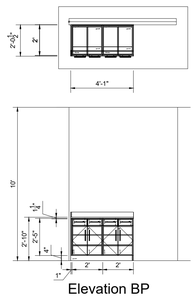
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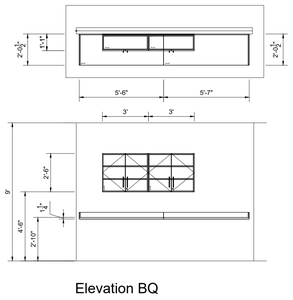
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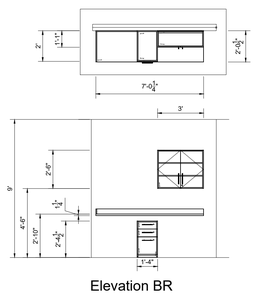
Elevation BO



Elevation BP



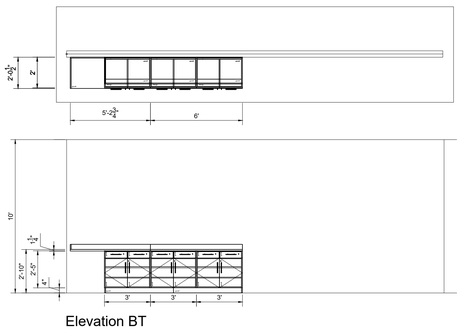
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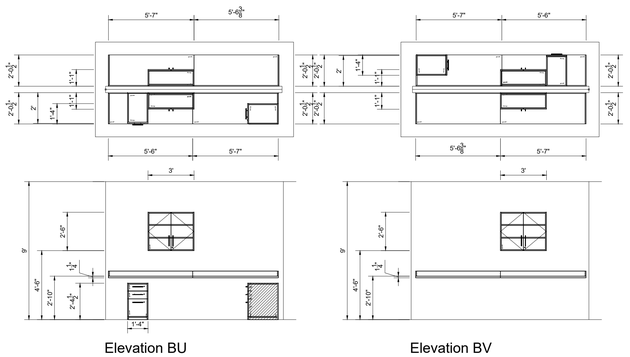
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Elevation BS

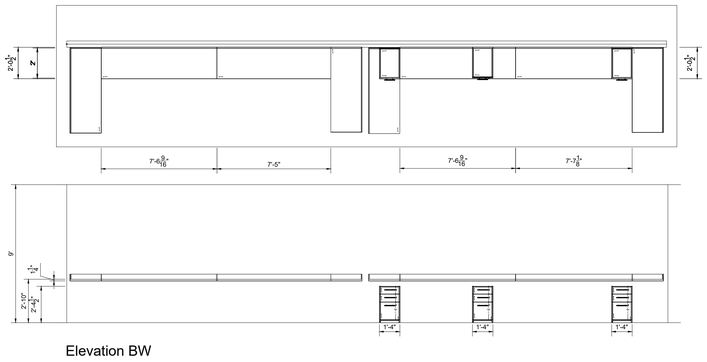


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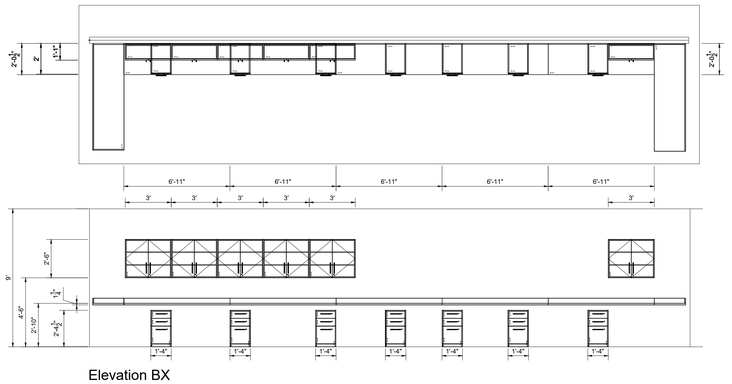


Elevation BU

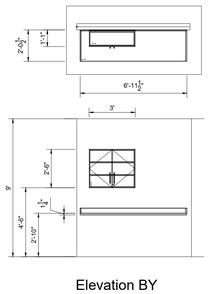
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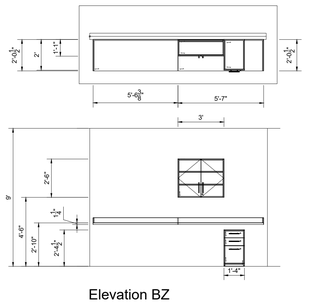
Elevation BW



Elevation BX



Elevation BY



Elevation BZ

1 CASEWORK ELEVATIONS
DW-300.1

1/4" = 1'-0" / 1:47.999995

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

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- ☑ NO
- ☐ YES

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DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

CASEWORK PROVISIONS REQUIRED - SEE CASEWORK SHOP DRAWINGS

ADDITIONAL NOTES:

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NORTH SHORE
MULTI-USE INDOOR FACILITY
GALENA PARK ISD

Project Address:

GALENA PARK, TX

CONSULTANT SET

Rev	Date	Revision	Initial
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-	07Oct25	Revisions	KA

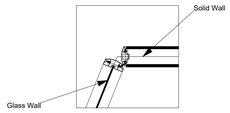
Project:	158938
Drawn by:	----
Scale:	AS NOTED
Plot Date:	2025/10/07
Contact:	----
Contact Number:	----

CASEWORK ELEVATIONS

DW-300.1

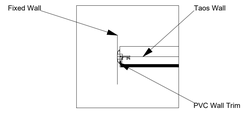
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A



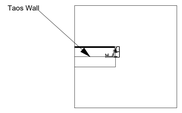
Open Corner (the Quirk)

B



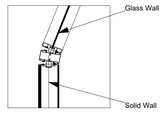
Wall Trim 3 Way Connection

C



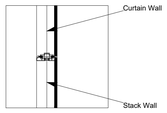
TAOS Wall End Cap

D



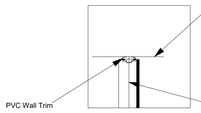
Thin Monogamy 2 Way with variable angle

E



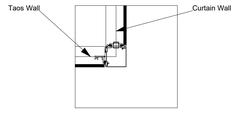
DWL Snap Line Intersection

F



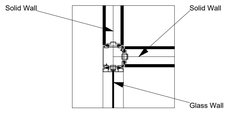
Wall Trim 3 Way Connection

G



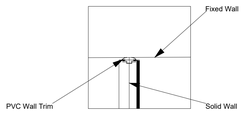
Square Corner (the Chicago)

H



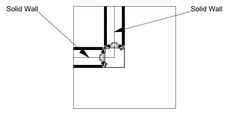
Menage 3 Way Connection

I



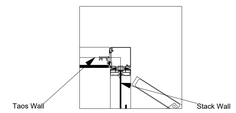
Wall Trim 3 Way Connection

J



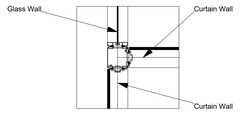
Square Corner (the Chicago)

K



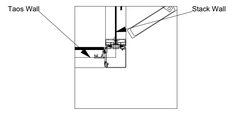
Square Corner (the Chicago)

L



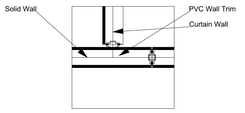
Menage 3 Way Connection

M



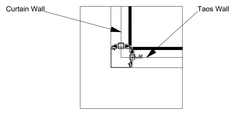
Square Corner (the Chicago)

N



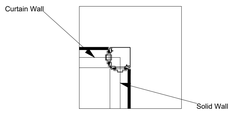
Wall Trim 3 Way Connection

O



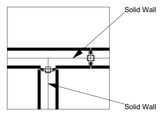
Square Corner (the Chicago)

P



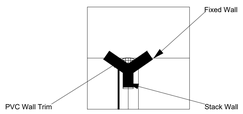
Square Corner (the Chicago)

Q



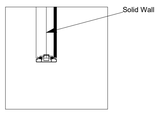
Ninja 3 Way Connection

R



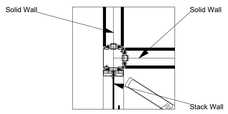
Wall Trim 3 Way Connection

S



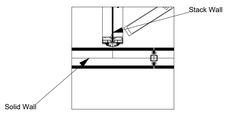
X-Wing End Cap

T



Menage 3 Way Connection

U



Wallflower 3 Way Connection

1 INTERSECTION DETAILS
DW-400.1

SCALE : 1" = 1'-0"

DIRTT Door Schedule

Tag	Style Name	Size	Handedness	Hardware Type	Closer Type	Stopper	Door Base Style	Finish Tag	Hardware Description	Center Location AFF	Door Track Type
HD56	DR-DBLstackBH	Height 6' - 11 3/16" X Width 3' - 1"	LHR	COM	Concealed	None	ADA	M9, M11	COM Door Hardware(COM; Dorma Kaba)		N/A
HD57	DR-BHstack	Height 6' - 11 3/16" X Width 3' - 1"	RHR	COM	Concealed	None	ADA	M9, M11	COM Door Hardware(COM; Dorma Kaba)		N/A
HD58	DR-BHstack	Height 6' - 11 3/16" X Width 3' - 1"	LHR	COM	Concealed	None	ADA	M9, M11	COM Door Hardware(COM; Dorma Kaba)		N/A
HD59	DR-DBLstackBH	Height 6' - 11 3/16" X Width 3' - 1"	RHR	COM	Concealed	None	ADA	M9, M11	COM Door Hardware(COM; Dorma Kaba)		N/A
HD60	Butt_Hinge_Door-Double	Height 9' - 3 7/16" X Width 3' - 1"	LH	COM	Concealed	None	ADA	M9, M11	COM Door Hardware(COM; Dorma Kaba)		N/A
HD61	Butt_Hinge_Door-Double	Height 9' - 3 7/16" X Width 3' - 1"	RH	COM	Concealed	None	ADA	M9, M11	COM Door Hardware(COM; Dorma Kaba)		N/A

2 DOOR SCHEDULE
DW-400.1

PROJECT DETAILS/NOTES:

FRAME AND TRIM DETAILS

EXTRUSION PROFILE / WALL TYPE:
- ☐ CURVILINEAR
- ☑ RECTILINEAR
- ☐ BLADE
- ☐ EVIL TWIN
- ☐ INSPIRE

FRAME FINISH:
- ☐ ANODIZED ALUMINUM
- ☑ POWDER-COATED
- ☐ VENEER

BASE TRIM COLOR:
- ☐ SILVER
- ☑ BLACK

PVC/GLASS WIPE COLOR:
- ☐ SILVER
- ☑ BLACK

REVEAL:
- ☑ CLASSIC
- ☐ ENZO

COPLANAR:
- ☑ NO
- ☐ YES

FLOOR, CEILING, AND SEISMIC DETAILS

FLOOR TYPE:
- ☐ CARPET
- ☑ HARD SURFACE

WALL HEIGHT: 10'0" AND 12'0"

CEILING TYPE:
- ☑ DRYWALL BULKHEAD
- ☐ CORNICE RAIL
- ☐ LOW WALL
- ☑ GRID

GRID TYPE:
- ☐ 9/16"
- ☑ 15/16"

TILE TYPE:
- ☑ FLUSH
- ☐ CONCEALED
- ☐ TEGULAR

SEISMIC REQUIRED:
- ☑ NO
- ☐ YES

HARDWARE REQUIREMENTS:

DOORS:
REFERENCE DOOR SCHEDULE FOR FURTHER DETAILS

ELECTRICAL PROVISION REQUIRED - SEE ELECTRICAL SHOP DRAWINGS

DATA PROVISION REQUIRED - SEE PON SHOP DRAWINGS

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MULTI-USE INDOOR FACILITY
GALENA PARK ISD

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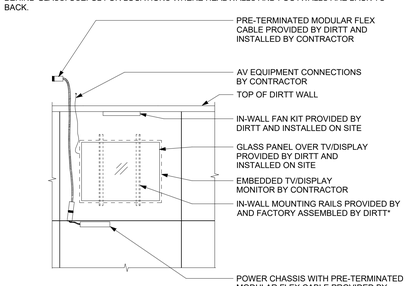
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INTERSECTION DETAILS AND DOOR SCHEDULE

DW-400.1

RECESSED TV/DISPLAY MONITOR AT DIRTT WALL - POWER CHASSIS MODULAR

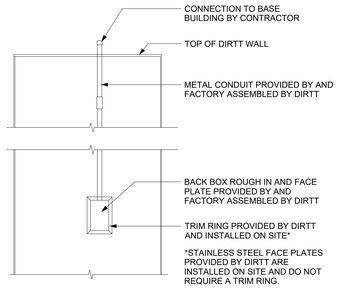
TYPICALLY PROVIDED FOR ITEMS SUCH AS: TELEVISIONS OR MONITORS THAT ARE TO BE LOCATED BEHIND GLASS. USEFUL FOR LOCATIONS WHERE HEADWALLS AND FOOTWALLS ARE BACK TO BACK.



*TV/DISPLAY MONITOR MOUNTING HARDWARE BY CONTRACTOR.

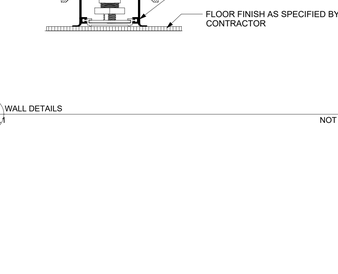
DIRTT BACK BOXES AND CONDUIT

TYPICALLY PROVIDED FOR ITEMS SUCH AS: LIGHT SWITCHES, WALL MOUNTED LUMINARIES, ETC.



1 DW-500.1 POWER DETAILS

NOT TO SCALE



2 DW-500.1 PLUMBING DETAILS

NOT TO SCALE

3 DW-500.1 WALL DETAILS

NOT TO SCALE

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WALL DETAILS

DW-500.1

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