

Stem Gymnasium Improvements at the Region % Stem Center

Calcasieu Parish School System

Project documents obtained from www.CentralBidding.com

19-Oct-2026 12:27:21 PM

BID DOCUMENTS

October 8, 2026

STEM GYMNASIUM IMPROVEMENTS

AT THE REGION 5 STEM CENTER

FOR THE CALCASIEU PARISH SCHOOL BOARD

General Funds and the City of Lake Charles LC Rebound Project.

CPSB Project No: 2027-03PC

1509 Enterprise Blvd.
LAKE CHARLES, LA 70601

PROJECT SUMMARY:

THIS PROJECT CONSISTS OF THE RENOVATION OF THE EXISTING "SMALL" GYMNASIUM AT THE FORMER LAKE CHARLES BOSTON CAMPUS, CURRENTLY REFERRED TO AS THE "STEM GYM." THE PROJECT ALSO INCLUDES RENOVATIONS TO SUPPORT SPACES SURROUNDING THE GYM, INCLUDING THE ADDITION OF NEW RESTROOM FACILITIES AND A CONCESSION AREA. THE PROJECT FURTHER INCLUDES EXTERIOR SITE IMPROVEMENTS TO THE AREA IMMEDIATELY WEST OF THE GYM.

AREA CALCULATIONS

BUILDING AREA CALCULATIONS:

RENOVATED AREA- 8,700 SQ.FT. CONDITIONED

CODE REFERENCES:

NATIONAL FIRE PROTECTION ASSOCIATION , NFPA 101, LIFE SAFETY CODE, 2015 EDITION
N.F.P.A. BUILDING OCCUPANCY: GROUP "E" - EDUCATIONAL
N.F.P.A. CONSTRUCTION TYPE: "II (000) NON-COMBUSTIBLE, UN-PROTECTED, NON-SPRINKLERED
OCCUPANT LOAD FOR EGRESS - 320

INTERNATIONAL BUILDING CODE, 2021 EDITION
I.B.C. BUILDING OCCUPANCY: GROUP "E" - EDUCATION I.B.C. CONSTRUCTION TYPE: II B
RISK CATEGORY: "III" (BUILDINGS & OTHER STRUCTURES CONTAINING ELEMENTARY SCHOOL, SECONDARY SCHOOL OR DAY CARE FACILITIES W/ AN OCCUPANT LOAD GREATER THAN 250)
WIND SPEED: IBC 2021 / ASCE 7-16 (3-SEC GUST): 140 M.P.H.
EXPOSURE CATEGORY: "C"

UNITED STATES DEPARTMENT OF JUSTICE, 2010 ADA STANDARDS (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES)
ICC A117.1-2007 STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
INTERNATIONAL PLUMBING CODE, 2021 EDITION
INTERNATIONAL MECHANICAL CODE, 2021 EDITION
NATIONAL ELECTRICAL CODE, 2020 EDITION
LOUISIANA STATE ENERGY CONSERVATION CODE

PLUMBING FIXTURE CALCULATIONS:

RESTROOM OCCUPANT LOAD PER IBC 2021 - 320 OCCUPANTS > 164 MALE + 164 FEMALE

PLUMBING FIXTURES PER I.P.C. 2021, TABLE 403.1 (Assembly A-4)

EDUCATION - WATER CLOSETS:	FEMALE - 160 @ 1 PER 40 = 4 REQUIRED / 4 TOILETS PROVIDED MALE - 160 @ 1 PER 75 = 3 REQUIRED / 1 TOILET AND 2 URINAL PROVIDED
EDUCATION - LAVATORIES:	FEMALE - 160 @ 1 PER 150 = 2 REQUIRED / 3 LAVATORIES PROVIDED MALE - 160 @ 1 PER 200 = 1 REQUIRED / 2 LAVATORIES PROVIDED SINGLE OCCUPANT STAFF TOILETS PROVIDED - 0
EDUCATION - SERVICE SINKS:	1 SERVICE SINK REQUIRED / 1 SERVICE SINK PROVIDED

INDEX OF SHEETS

COVER SHEET

EXISTING SURVEY

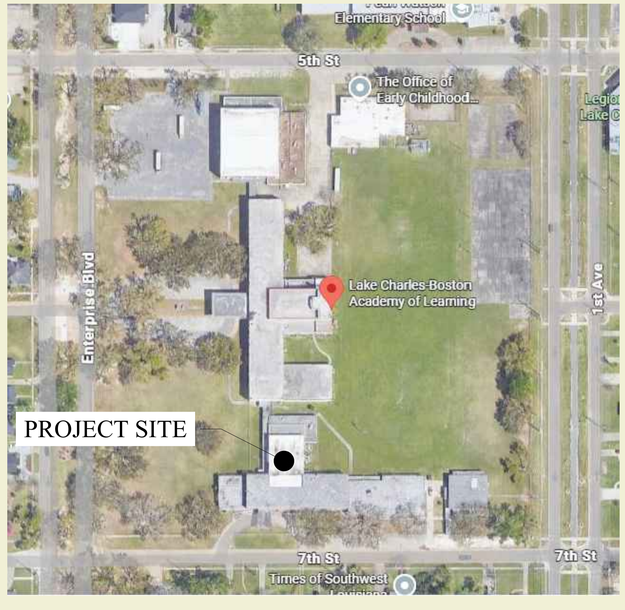
A1.0 OVERALL SITE PLAN
A1.1 OVERALL EXISTING/ DEMOLITION SITE PLAN
A1.2 ENLARGED SITE PLAN AND DETAILS
A1.3 SEATING AND CANOPY PLAN AND DETAILS
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A6.2 INTERIOR ELEVATIONS
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S1.2 PAVILION FOUNDATION (BY ADDENDUM)

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P2.0 NEW PLUMBING PLANS
P3.0 PLUMBING SCHEDULES
P3.1 PLUMBING DETAILS

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E2.1 LIGHTING PLAN
E3.1 POWER AND SPECIAL SYSTEMS PLANS
E3.2 ELECTRICAL PLAN
E4.0 ELECTRICAL SCHEDULES



CHAMPEAUX EVANS HOTARD ARCHITECTS A.P.A.C

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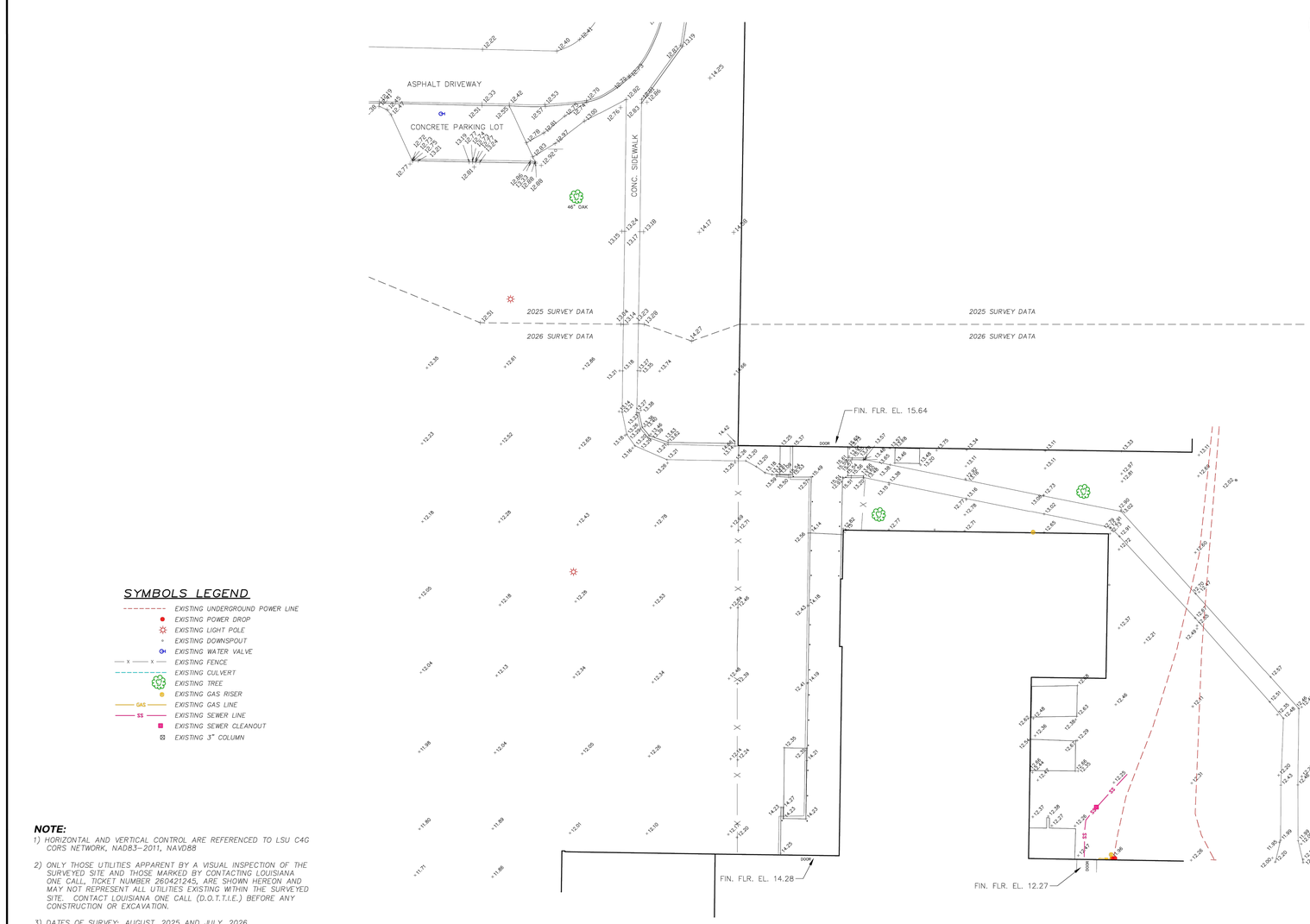
STEPHEN C. HOTARD REG. NO 36547 STATE OF LOUISIANA REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

Drawings and Specifications as instruments of service are and shall remain the property of the Architect. They are not to be used on other projects or extensions to this project except by agreement in writing and with appropriate compensation to the Architect. Contractor is responsible for confirming and correlating dimensions at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures; or for safety precautions and programs in connection with the project.

SET #

2401 - STEM GYMNASIUM IMPROVEMENTS AT THE REGION 5 STEM CENTER



SYMBOLS LEGEND

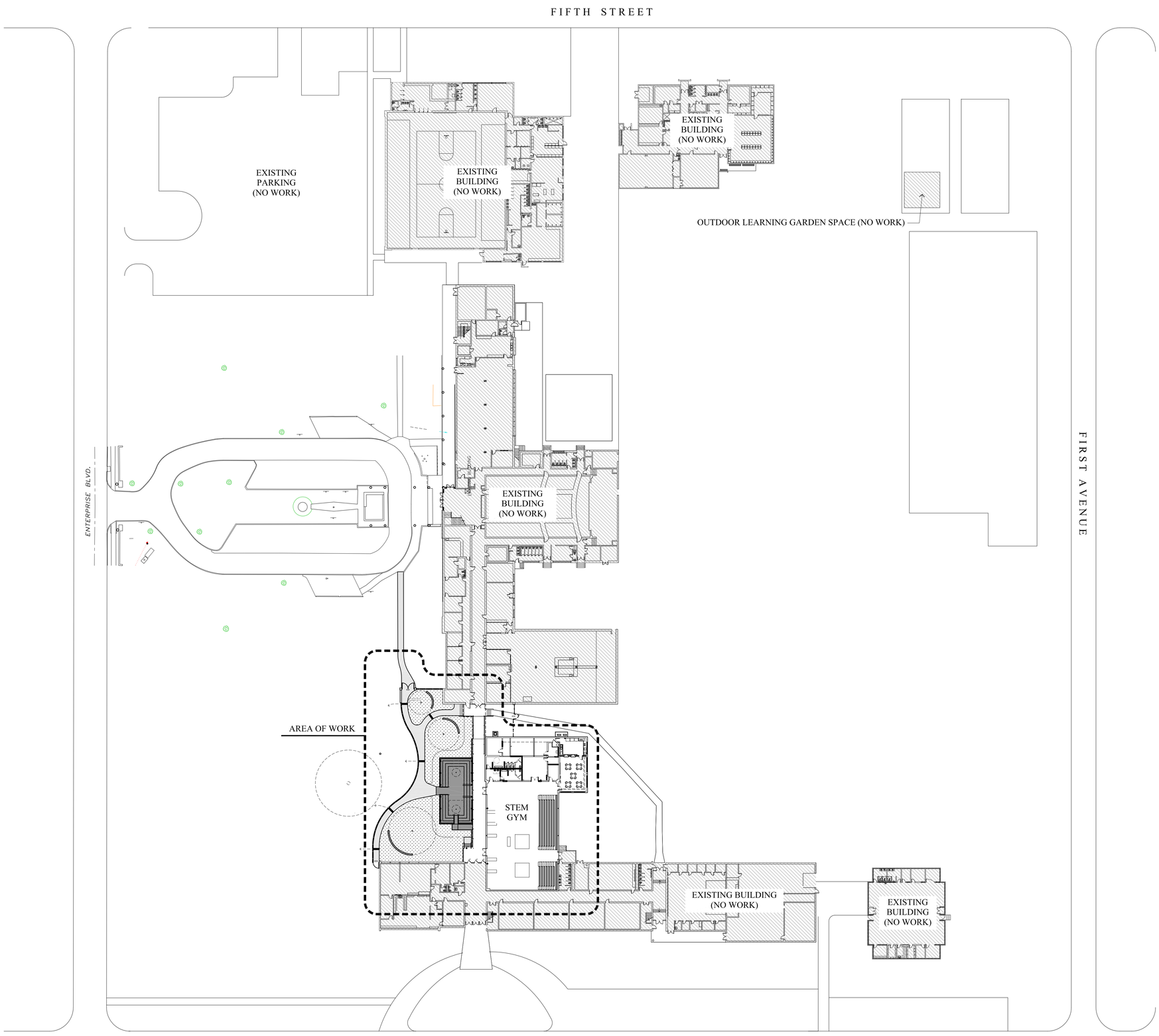
- EXISTING UNDERGROUND POWER LINE
- EXISTING POWER DROP
- EXISTING LIGHT POLE
- EXISTING DOWNSPOUT
- EXISTING WATER VALVE
- EXISTING FENCE
- EXISTING CULVERT
- EXISTING TREE
- EXISTING GAS RISER
- EXISTING GAS LINE
- EXISTING SEWER LINE
- EXISTING SEWER CLEANOUT
- EXISTING 3" COLUMN

NOTE:

1) HORIZONTAL AND VERTICAL CONTROL ARE REFERENCED TO LSU C4G CORS NETWORK, NAD83–2011, NAVD88
2) ONLY THOSE UTILITIES APPARENT BY A VISUAL INSPECTION OF THE SURVEYED SITE AND THOSE MARKED BY CONTACTING LOUISIANA ONE CALL, TICKET NUMBER 260421245, ARE SHOWN HEREON AND MAY NOT REPRESENT ALL UTILITIES EXISTING WITHIN THE SURVEYED SITE. CONTACT LOUISIANA ONE CALL (D.O.T.T.I.E.) BEFORE ANY CONSTRUCTION OR EXCAVATION.
3) DATES OF SURVEY: AUGUST, 2025 AND JULY, 2026

DESIGNED:	*Pelican Land Surveying, L.L.C.*	**TOPOGRAPHIC SURVEY AT**		PROJECT NO.: 250712 / DATE: JULY 13, 2026
DRAWN: EWW/DWS	A Professional Land Surveying Firm	**LAKE CHARLES BOSTON ACADEMY OF LEARNING**		
CHECKED: DWS/EWW	PO Box 1747	**LAKE CHARLES, LOUISIANA**		
APPROVED: DBS	Sulphur, LA 70664-1747		BY / REVISIONS / DATE	SCALE: 1" = 20' / SHEET: 1 OF 1
F.B. No.:	Phone/Fax 337-533-8116			

R:\2025\250712-1 EVANS HOTARD – LC BOSTON HS 2026-06-25\dwg\250712 – EH – LCB TOPO 2026-07-13.dwg Jul 16, 2026 – 1:47pm



Overall Site Plan

SCALE: 1"=40'

1

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C.E.H. PROJECT NUMBER
2401

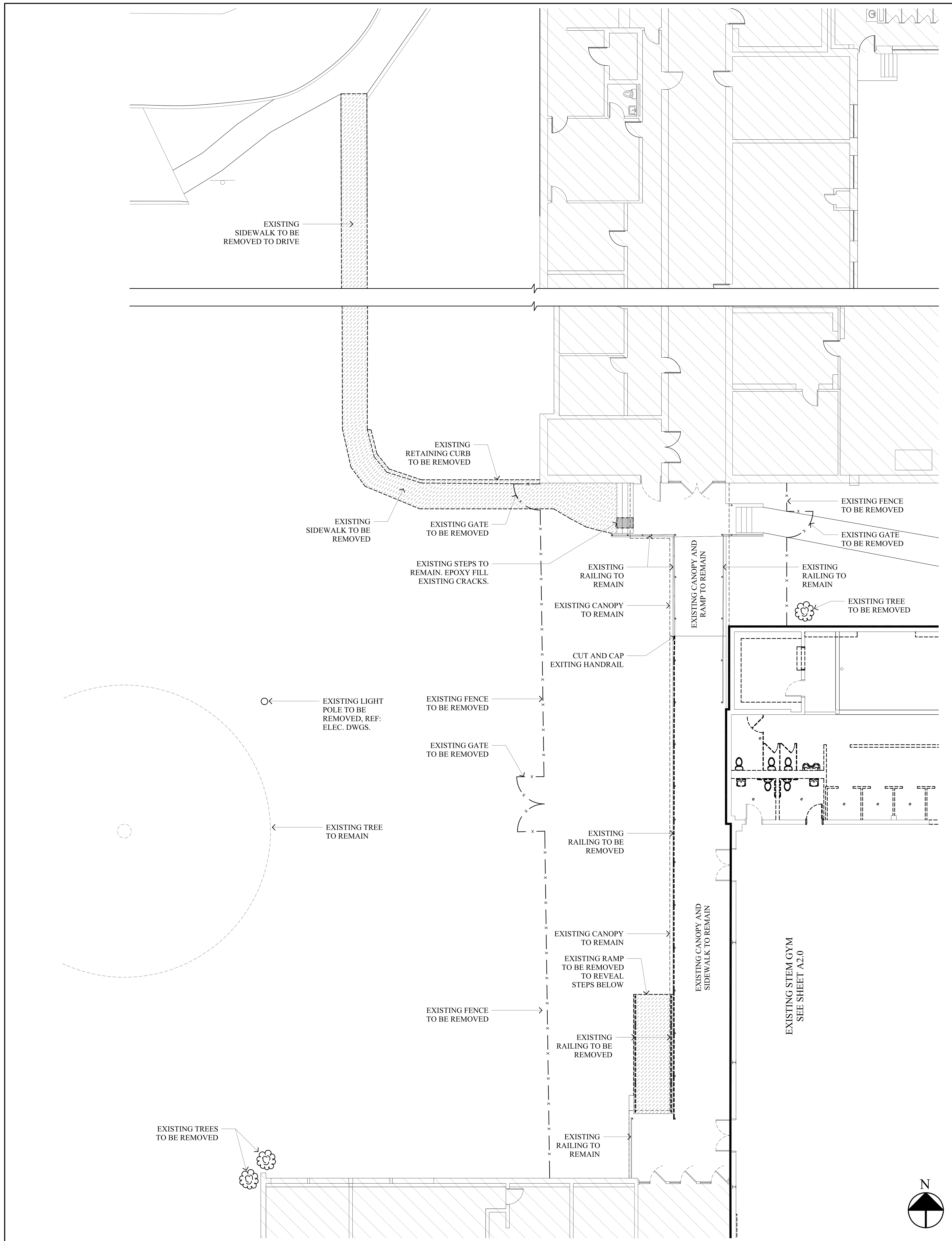
STEPHEN C. HOTARD
REG. NO. 24525
STATE OF LOUISIANA
REGISTERED ARCHITECT

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A1.0

PRINT DATE
10/08/2026



Overall Existing/ Demolition Site Plan

SCALE: 3/32" = 1'-0"

1

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STEPHEN C. HOTARD REG. NO 5555 STATE OF LOUISIANA REGISTERED ARCHITECT

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A1.1

PRINT DATE
10/08/2026

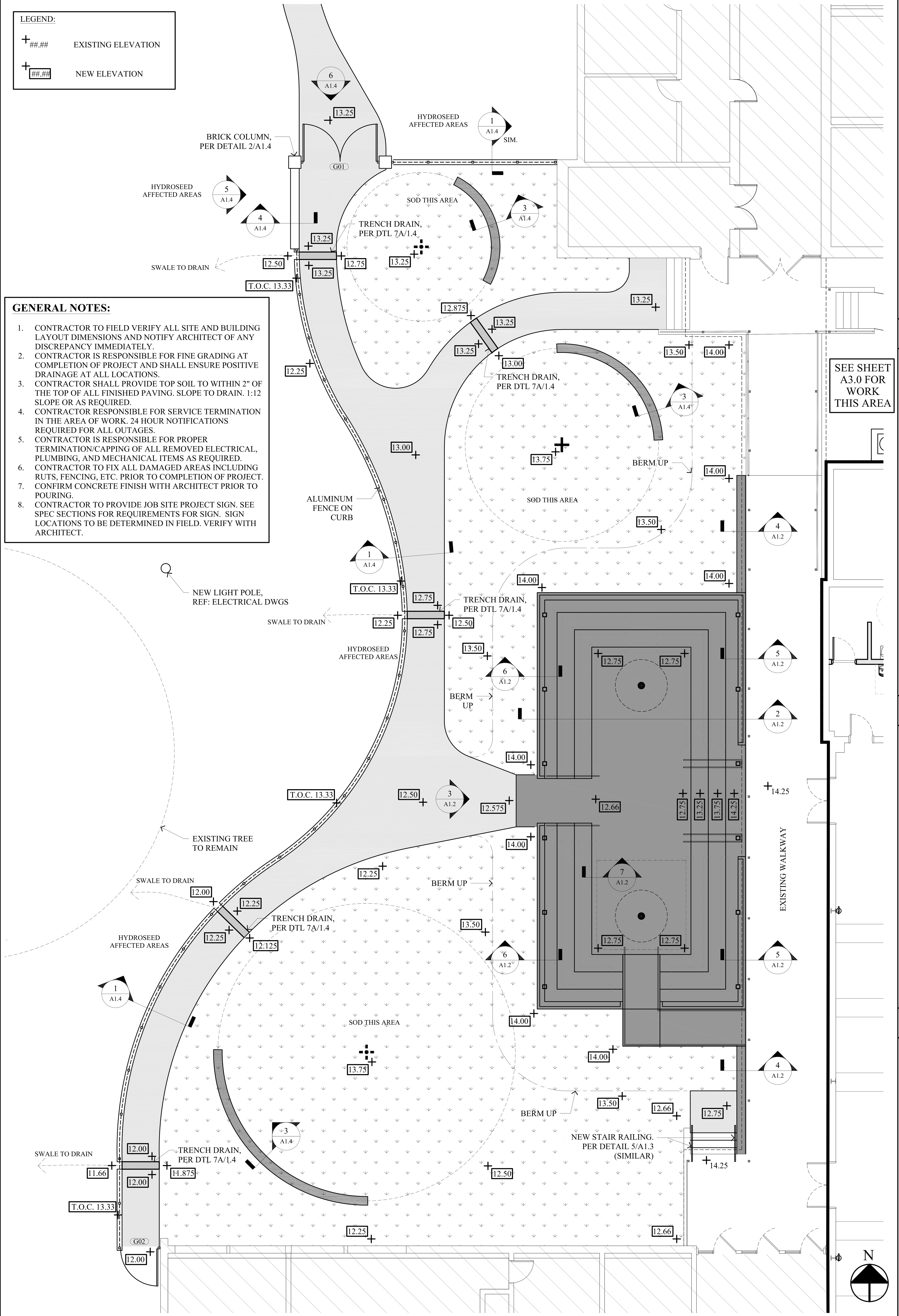
LEGEND:

+##.## EXISTING ELEVATION

+##.## NEW ELEVATION

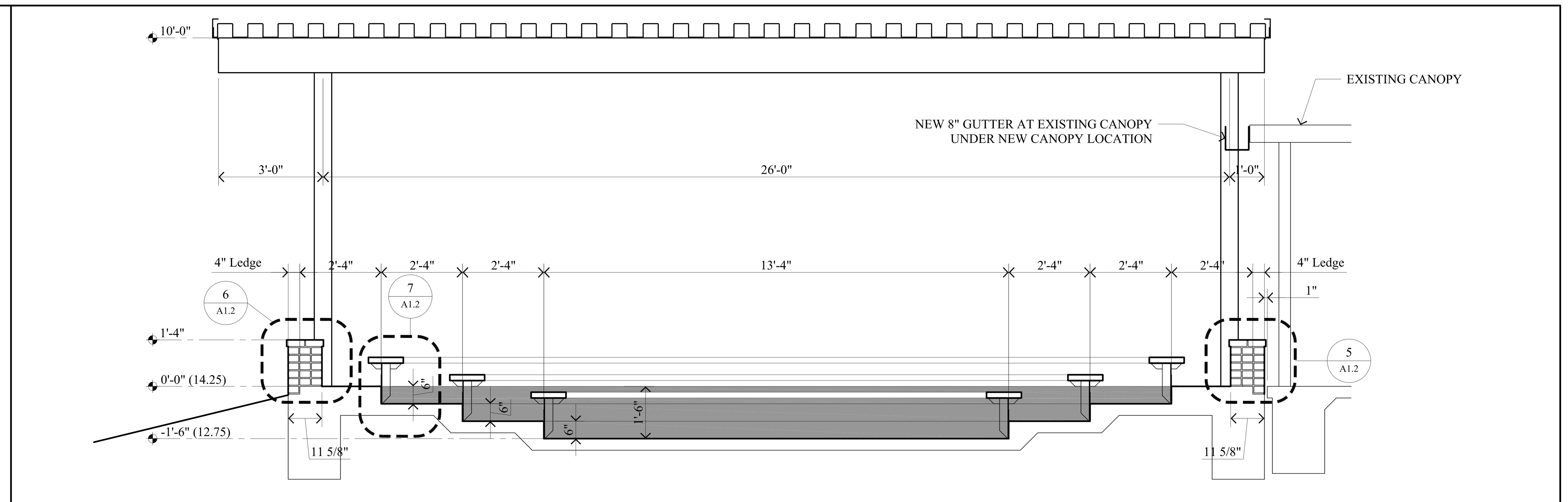
GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL SITE AND BUILDING LAYOUT DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCY IMMEDIATELY.
2. CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AT COMPLETION OF PROJECT AND SHALL ENSURE POSITIVE DRAINAGE AT ALL LOCATIONS.
3. CONTRACTOR SHALL PROVIDE TOP SOIL TO WITHIN 2" OF THE TOP OF ALL FINISHED PAVING. SLOPE TO DRAIN. 1:12 SLOPE OR AS REQUIRED.
4. CONTRACTOR RESPONSIBLE FOR SERVICE TERMINATION IN THE AREA OF WORK. 24 HOUR NOTIFICATIONS REQUIRED FOR ALL OUTAGES.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER TERMINATION/CAPPING OF ALL REMOVED ELECTRICAL, PLUMBING, AND MECHANICAL ITEMS AS REQUIRED.
6. CONTRACTOR TO FIX ALL DAMAGED AREAS INCLUDING RUTS, FENCING, ETC. PRIOR TO COMPLETION OF PROJECT.
7. CONFIRM CONCRETE FINISH WITH ARCHITECT PRIOR TO POURING.
8. CONTRACTOR TO PROVIDE JOB SITE PROJECT SIGN. SEE SPEC SECTIONS FOR REQUIREMENTS FOR SIGN. SIGN LOCATIONS TO BE DETERMINED IN FIELD. VERIFY WITH ARCHITECT.



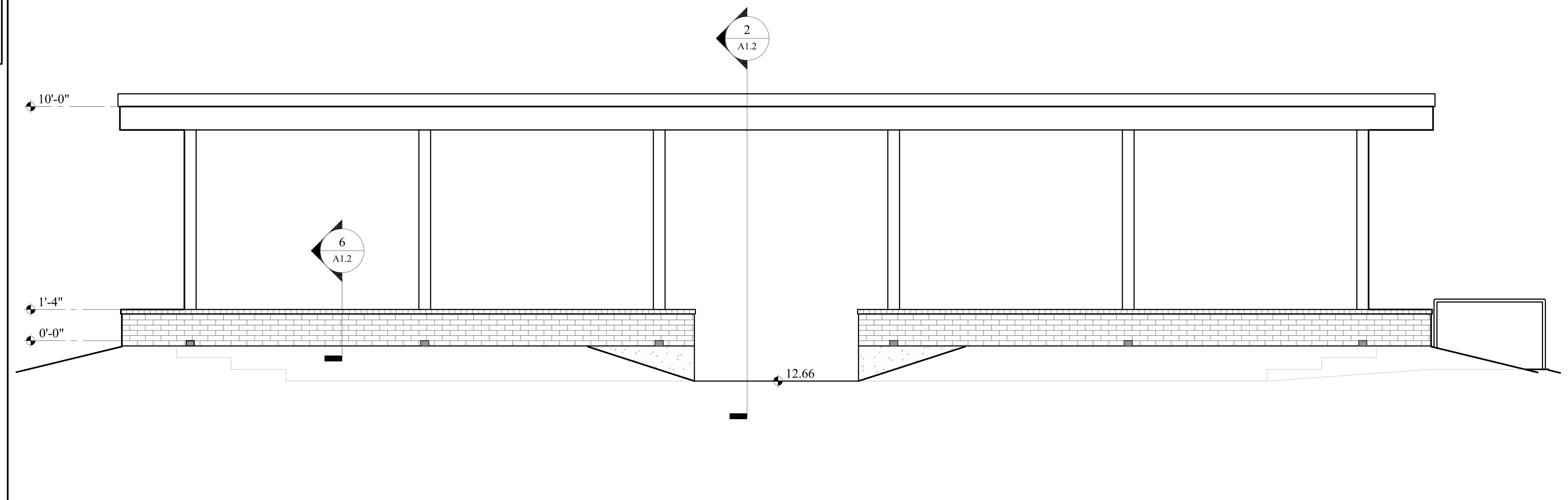
Enlarged Site Plan

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



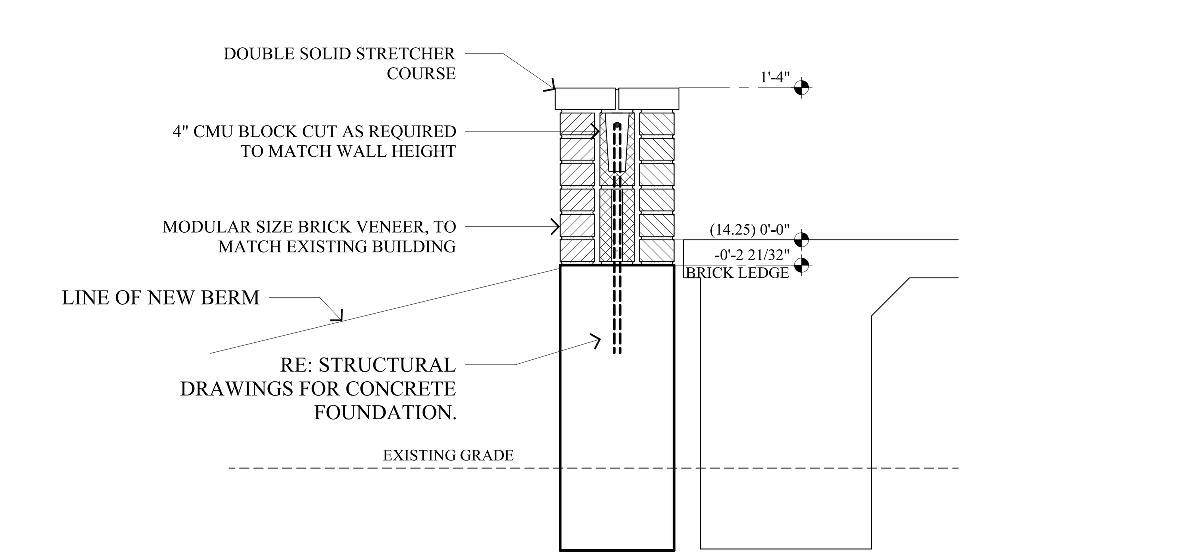
Canopy Section

SCALE: 3/8" = 1'-0" (2)



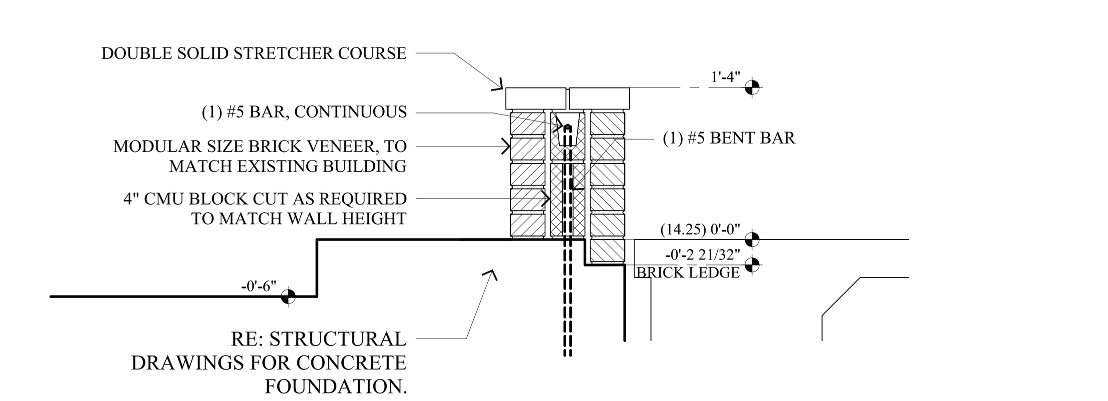
Exterior Elevation

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



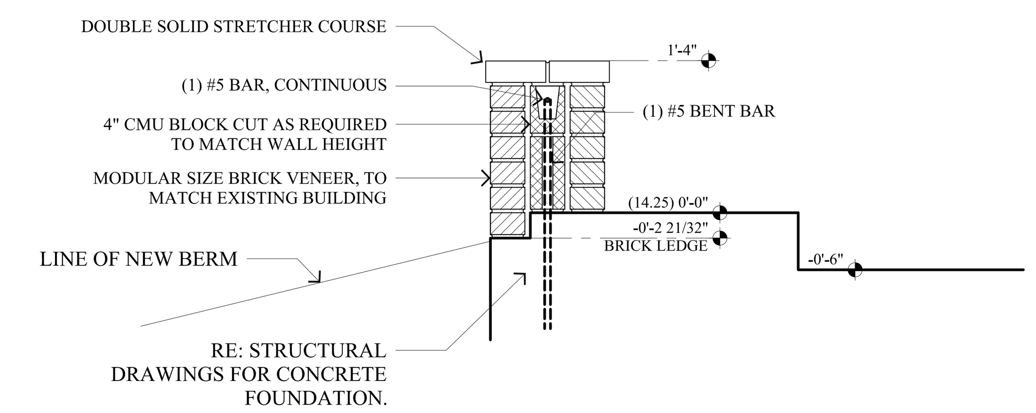
Section at Brick Bench at Existing Walkway

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



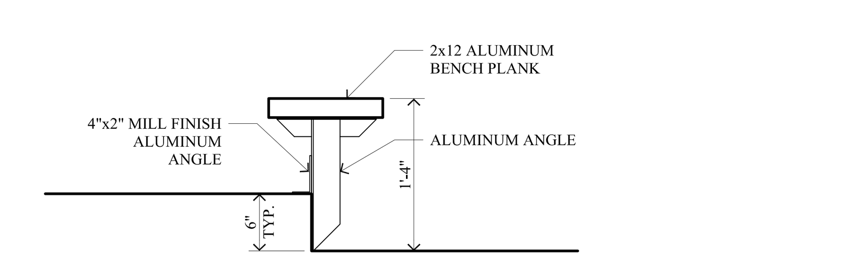
Section at Brick Bench Seating at Exist. Walkway

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



Section at Brick Bench Seating

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



Aluminum Bench Detail

SCALE: 3/4" = 1'-0" (7)

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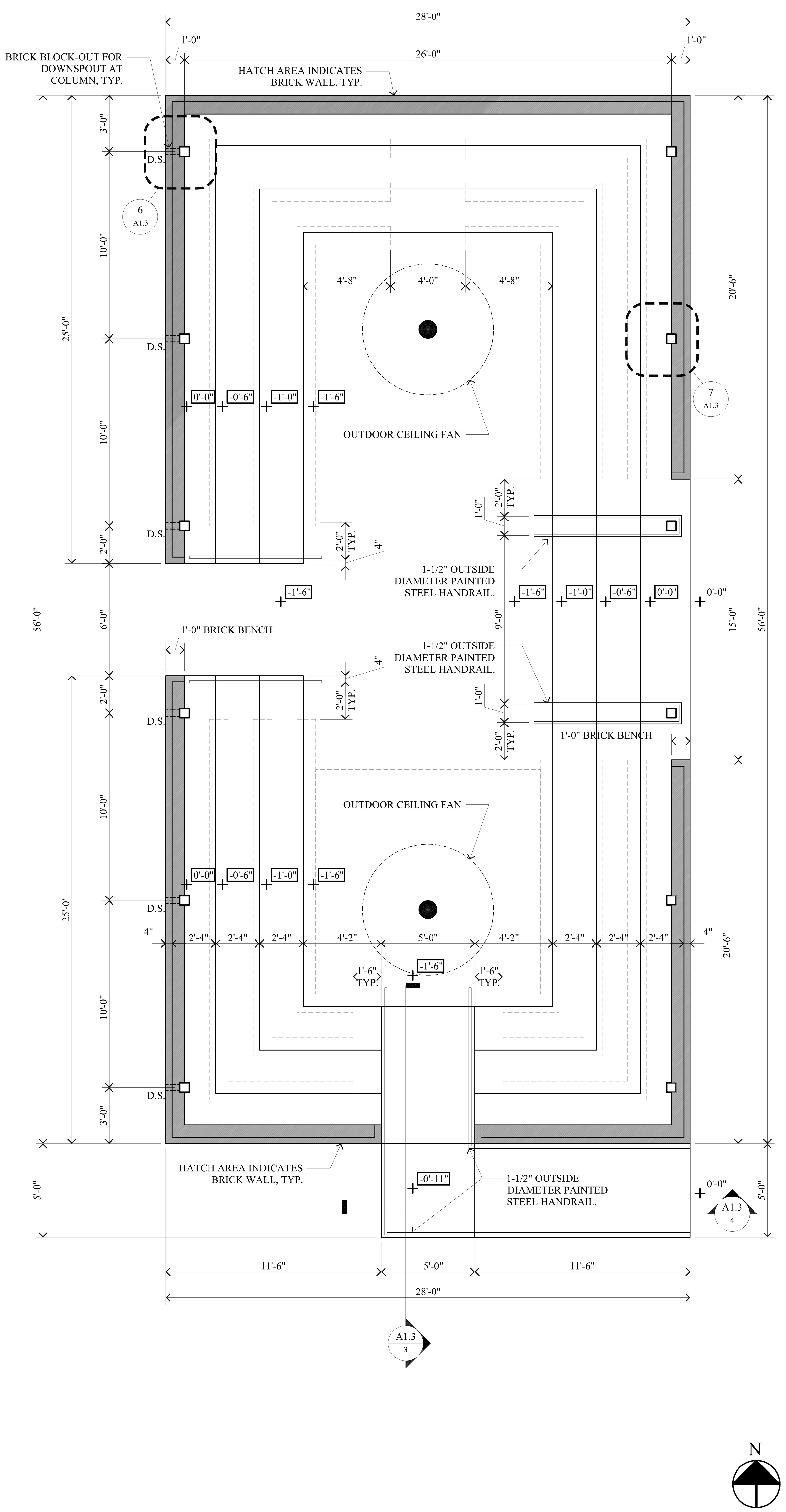
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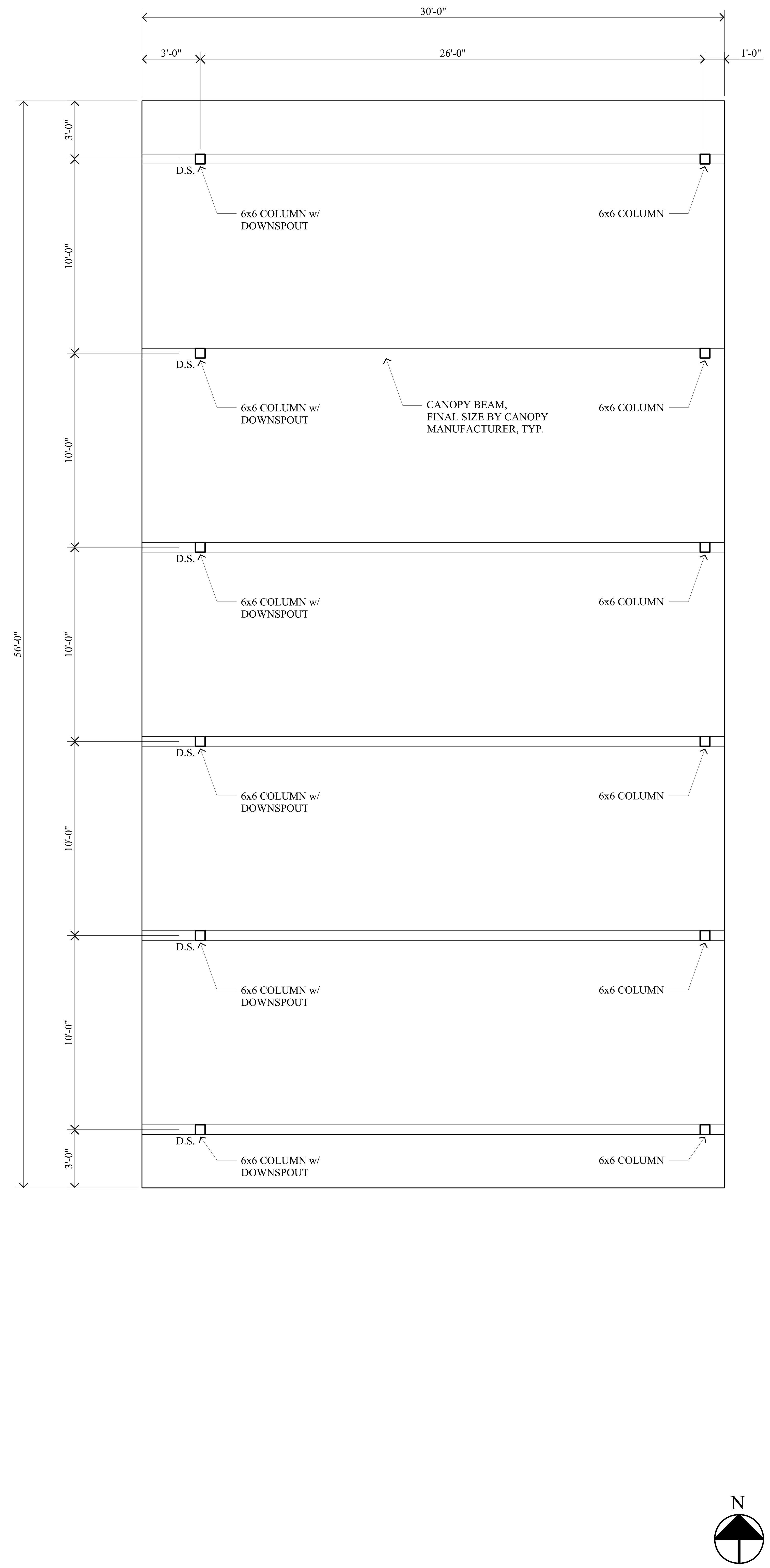
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A1.2

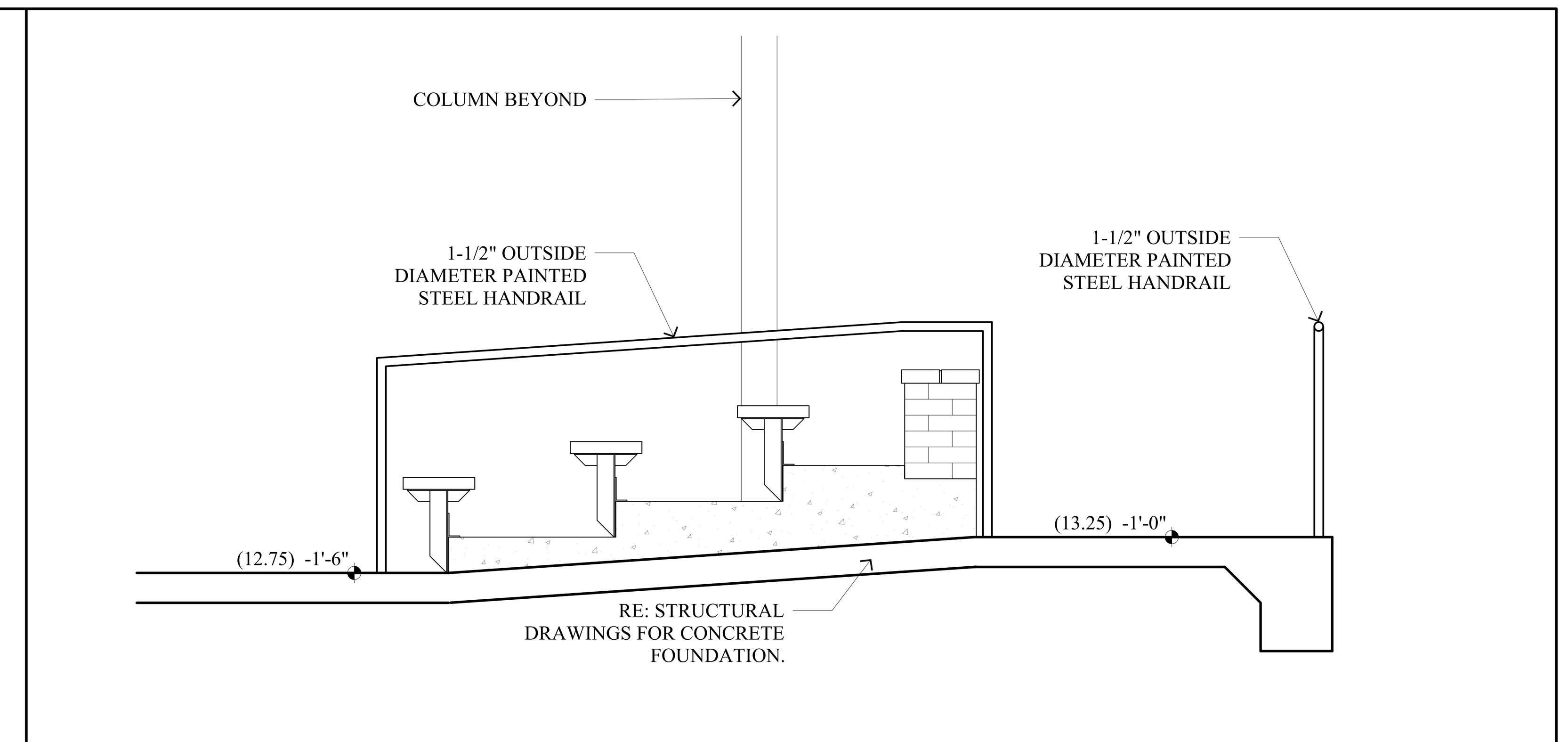
PRINT DATE
10/08/2026



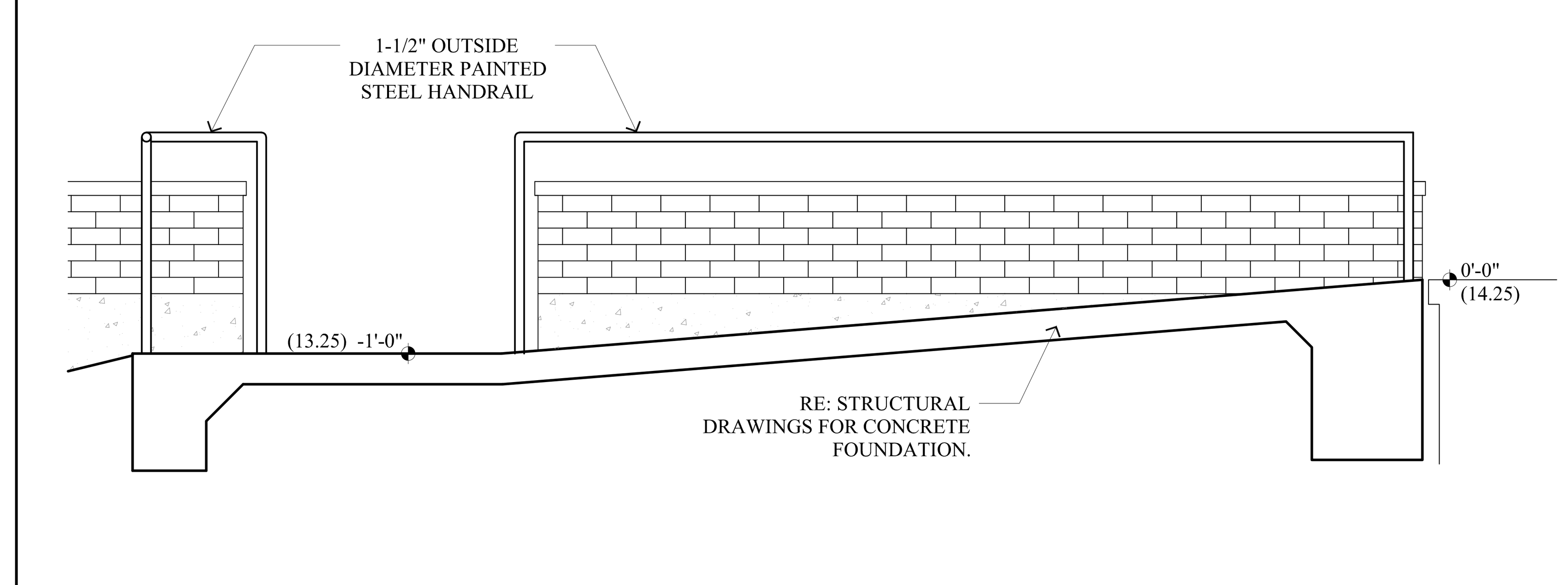
Seating Plan SCALE: 1/4" = 1'-0" 1



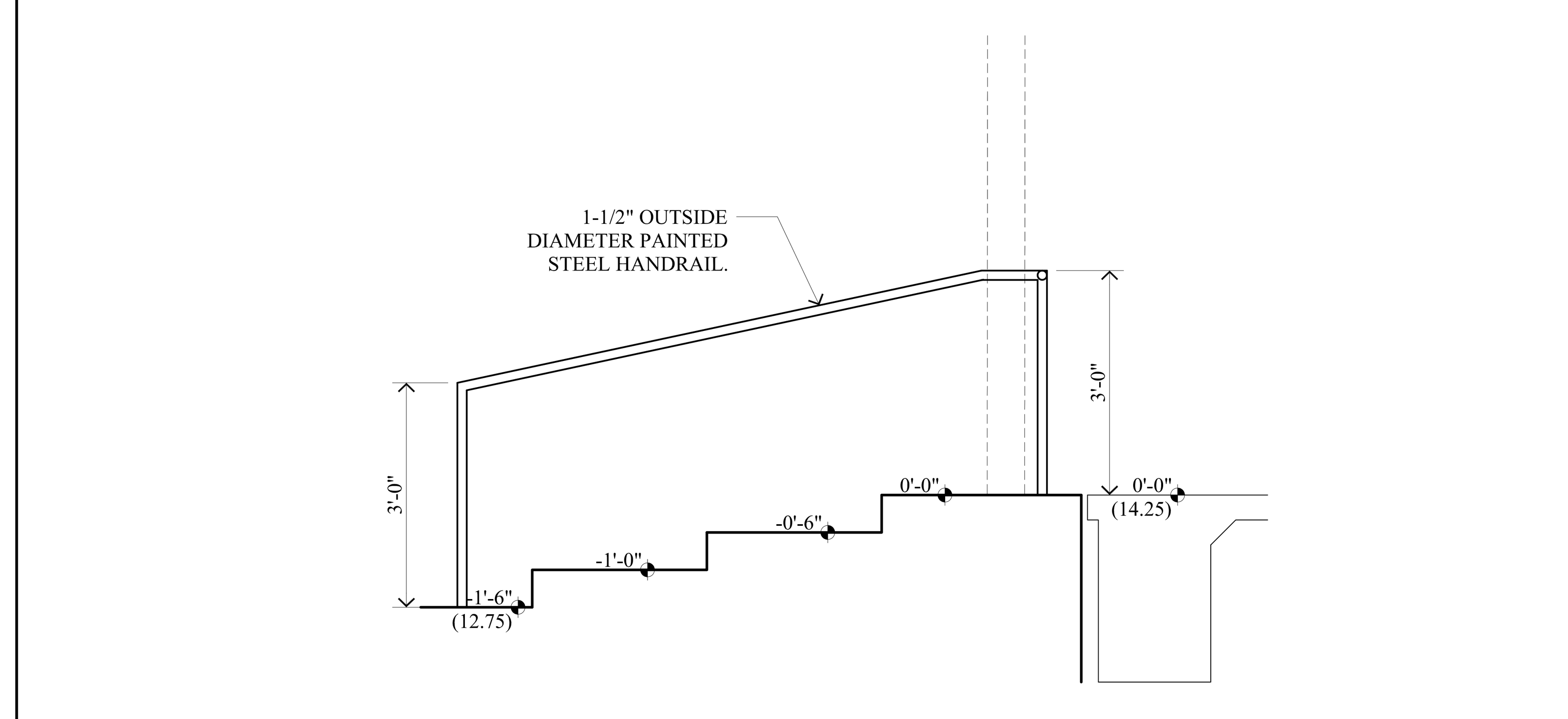
Canopy Plan SCALE: 1/4" = 1'-0" 2



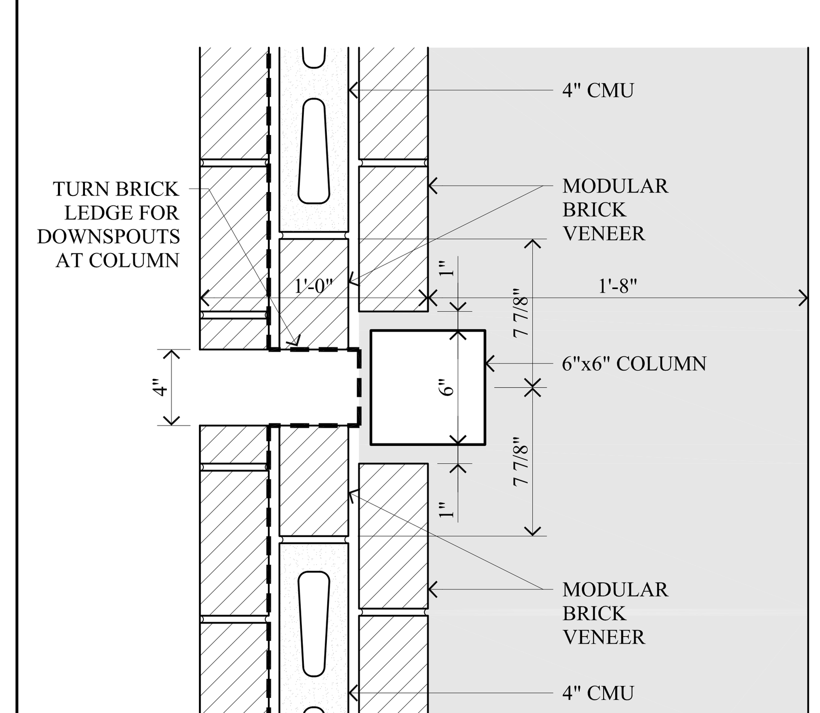
Section Through Ramp SCALE: 1/2" = 1'-0" 3



Section Through Ramp SCALE: 1/2" = 1'-0" 4

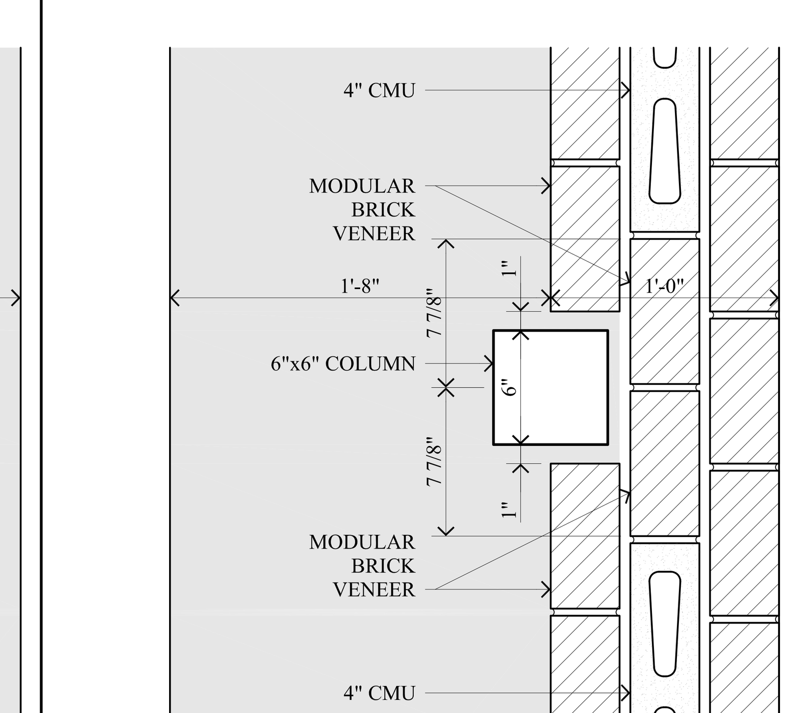


Railing at Steps SCALE: 1/2" = 1'-0" 5



AT DOWNSPOUT COLUMN IN BRICK BENCH

Plan Detail SCALE: 1 1/2" = 1'-0" 6



AT COLUMN IN BRICK BENCH

Plan Detail SCALE: 1 1/2" = 1'-0" 7

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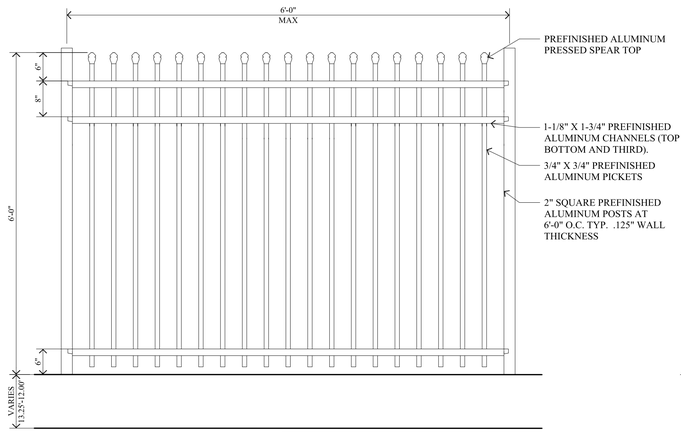


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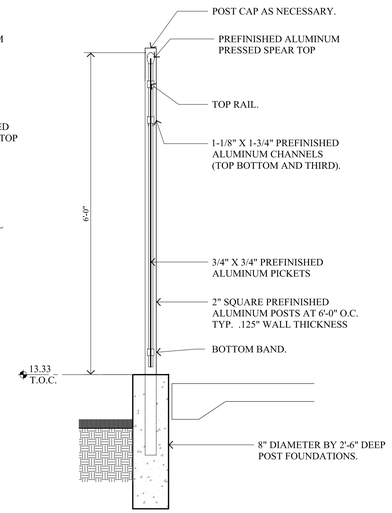
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A1.3

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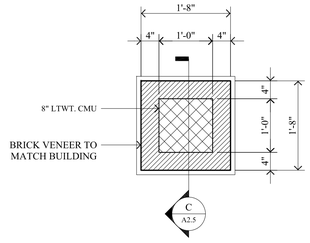
ALUMINUM
FENCE
ELEVATION



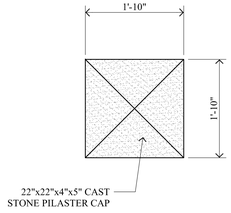
ALUMINUM FENCE
SECTION

Aluminum Fence Details

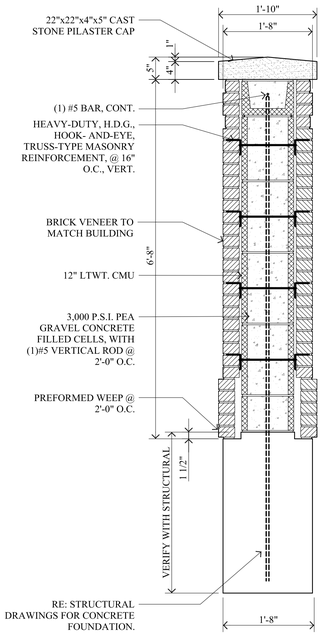
SCALE: 3/4" = 1'-0" 1



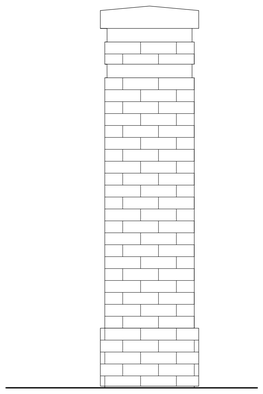
PLAN



CAST STONE CAP PLAN



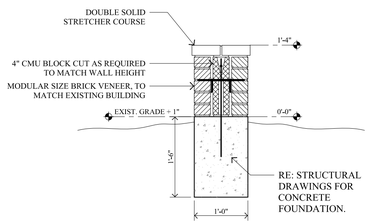
SECTION



ELEVATION

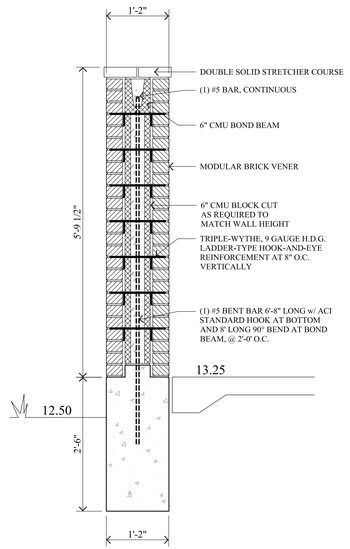
Brick Column Details

SCALE: 3/4" = 1'-0" 2



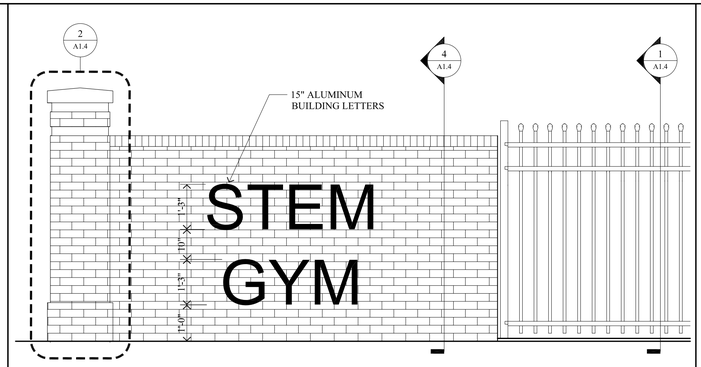
Brick Seat in Yard

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



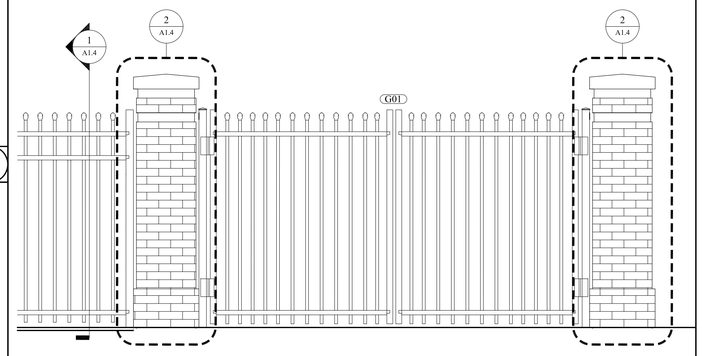
Brick Wall Section

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



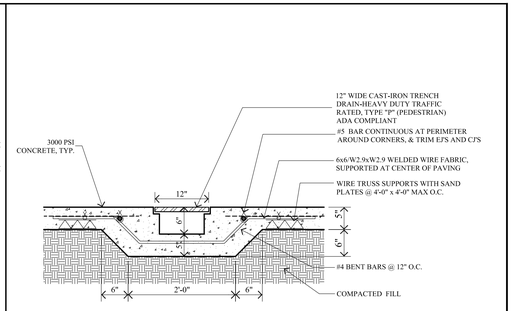
Brick Wall Sign Elevation

SCALE: 1/2" = 1'-0" 5



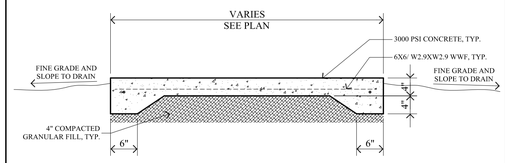
Brick Column and Gate Elevation

SCALE: 1/2" = 1'-0" 6



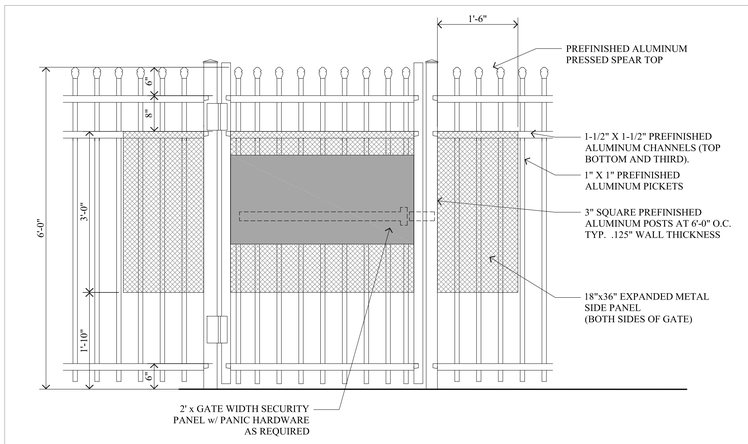
Trench Drain Detail

SCALE: 1/2" = 1'-0" 7



Condensing Unit Pad/ Sidewalk Detail

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



Typical Gate with Security Panels (Gate G02 & G03)

SCALE: 1/2" = 1'-0" 9

GATE SCHEDULE

MARK	DESCRIPTION	GATE WIDTH	GATE HEIGHT	GATE MATERIAL	GATE FINISH	FRAME/ POST MATERIAL	FRAME/ POST FINISH	HARDWARE	REMARKS
G101	SWING	10'-0"	6'-0"	DECORATIVE ALUM.	PREFINISHED	ALUMINUM	PREFINISHED	GHW-1	
G102	SWING	5'-0"	6'-0"	DECORATIVE ALUM.	PREFINISHED	ALUMINUM	PREFINISHED	GHW-2	PANIC BAR
G103	SWING	5'-0"	6'-0"	DECORATIVE ALUM.	PREFINISHED	ALUMINUM	PREFINISHED	GHW-2	PANIC BAR

HARDWARE SET GHW-1 : 2 PIECE FLIP GATE
LATCH LOCK w/ PADLOCK HOLES AND CANE BOLT
GATE DROP ROD

HARDWARE SET GHW-2 : PROVIDE EXTERIOR RATED RIM EXIT DEVICE
(PANIC BAR) WITH SURFACE MOUNTED STRIKE, ADJUSTABLE CLOSER, PULL,
AND CYLINDRICAL LOCKSET. REFERENCE MOUNTING CONDITION FOR
PROPER FIT. LOCKSET SHOULD TIE INTO MASTER KEY FORMAT OF SCHOOL.

*FINAL GATE SIZE TO BE DETERMINED BY FENCING CONTRATOR

Gate Schedule

SCALE: None 10

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STEM Gymnasium Improvements at the Region 5 STEM Center

For The Calcasieu Parish School Board

1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STEPHEN C. HOTARD
REG. NO 34525
STATE OF LOUISIANA
REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

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A1.4

PRINT DATE
10/08/2026



Existing Photo - Renovation Work (West and North Side) SCALE: None (1)



Existing Photo - Renovation Work (North Side) SCALE: None (2)



Existing Photo - Renovation Work (West Side) SCALE: None (3)



Existing Photo - Renovation Work (East Side) SCALE: None (4)

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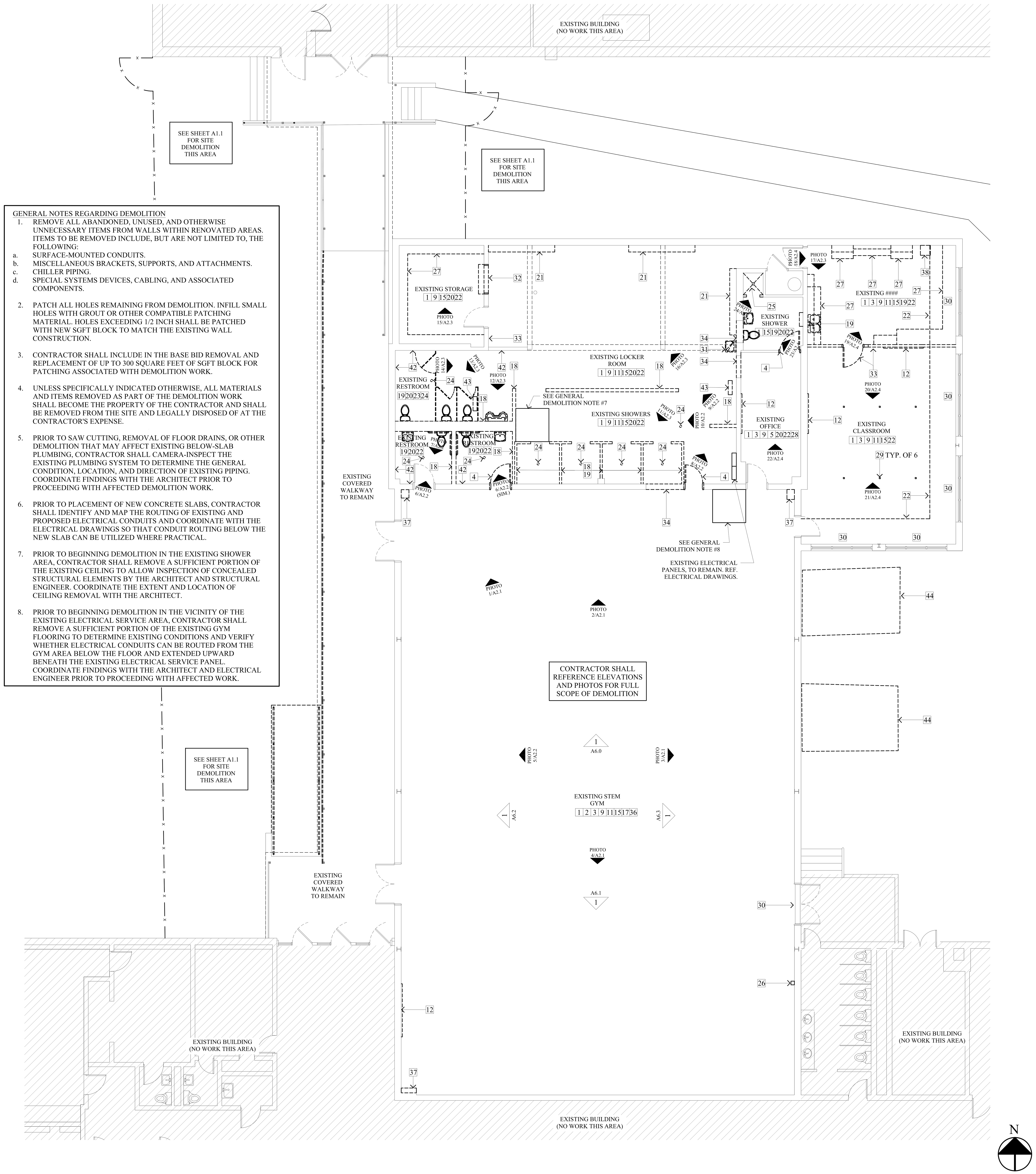
STEPHEN C. HOTARD REG. NO 5555 STATE OF LOUISIANA REGISTERED ARCHITECT

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A1.5

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GENERAL NOTES REGARDING DEMOLITION

1. REMOVE ALL ABANDONED, UNUSED, AND OTHERWISE UNNECESSARY ITEMS FROM WALLS WITHIN RENOVATED AREAS. ITEMS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   a. SURFACE-MOUNTED CONDUITS.
   b. MISCELLANEOUS BRACKETS, SUPPORTS, AND ATTACHMENTS.
   c. CHILLER PIPING.
   d. SPECIAL SYSTEMS DEVICES, CABLING, AND ASSOCIATED COMPONENTS.
2. PATCH ALL HOLES REMAINING FROM DEMOLITION. INFILL SMALL HOLES WITH GROUT OR OTHER COMPATIBLE PATCHING MATERIAL. HOLES EXCEEDING 1/2 INCH SHALL BE PATCHED WITH NEW SGFT BLOCK TO MATCH THE EXISTING WALL CONSTRUCTION.
3. CONTRACTOR SHALL INCLUDE IN THE BASE BID REMOVAL AND REPLACEMENT OF UP TO 300 SQUARE FEET OF SGFT BLOCK FOR PATCHING ASSOCIATED WITH DEMOLITION WORK.
4. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL MATERIALS AND ITEMS REMOVED AS PART OF THE DEMOLITION WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
5. PRIOR TO SAW CUTTING, REMOVAL OF FLOOR DRAINS, OR OTHER DEMOLITION THAT MAY AFFECT EXISTING BELOW-SLAB PLUMBING, CONTRACTOR SHALL CAMERA-INSPECT THE EXISTING PLUMBING SYSTEM TO DETERMINE THE GENERAL CONDITION, LOCATION, AND DIRECTION OF EXISTING PIPING. COORDINATE FINDINGS WITH THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED DEMOLITION WORK.
6. PRIOR TO PLACEMENT OF NEW CONCRETE SLABS, CONTRACTOR SHALL IDENTIFY AND MAP THE ROUTING OF EXISTING AND PROPOSED ELECTRICAL CONDUITS AND COORDINATE WITH THE ELECTRICAL DRAWINGS SO THAT CONDUIT ROUTING BELOW THE NEW SLAB CAN BE UTILIZED WHERE PRACTICAL.
7. PRIOR TO BEGINNING DEMOLITION IN THE EXISTING SHOWER AREA, CONTRACTOR SHALL REMOVE A SUFFICIENT PORTION OF THE EXISTING CEILING TO ALLOW INSPECTION OF CONCEALED STRUCTURAL ELEMENTS BY THE ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE THE EXTENT AND LOCATION OF CEILING REMOVAL WITH THE ARCHITECT.
8. PRIOR TO BEGINNING DEMOLITION IN THE VICINITY OF THE EXISTING ELECTRICAL SERVICE AREA, CONTRACTOR SHALL REMOVE A SUFFICIENT PORTION OF THE EXISTING GYM FLOORING TO DETERMINE EXISTING CONDITIONS AND VERIFY WHETHER ELECTRICAL CONDUITS CAN BE ROUTED FROM THE GYM AREA BELOW THE FLOOR AND EXTENDED UPWARD BENEATH THE EXISTING ELECTRICAL SERVICE PANEL. COORDINATE FINDINGS WITH THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.

Existing/ Demolition Floor Plan

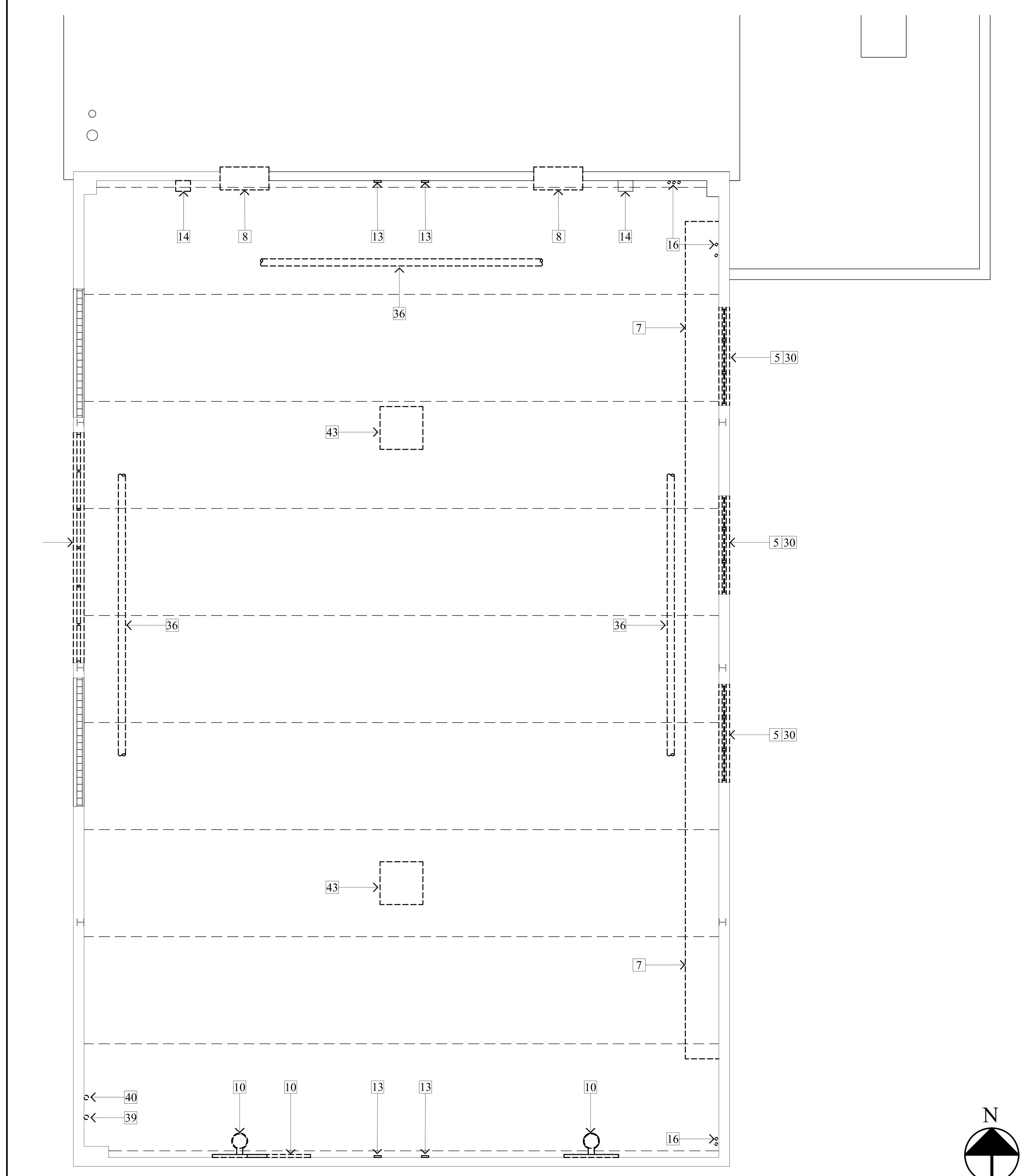
SCALE: 1/8"=1'-0" (1)

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Demolition Keynotes

SCALE: No Scale (3)



Existing/ Demolition Upper Floor Plan

SCALE: 1/8" = 1'-0" (2)

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STEPHEN C. HOTARD
REG. NO 5555
STATE OF LOUISIANA
REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

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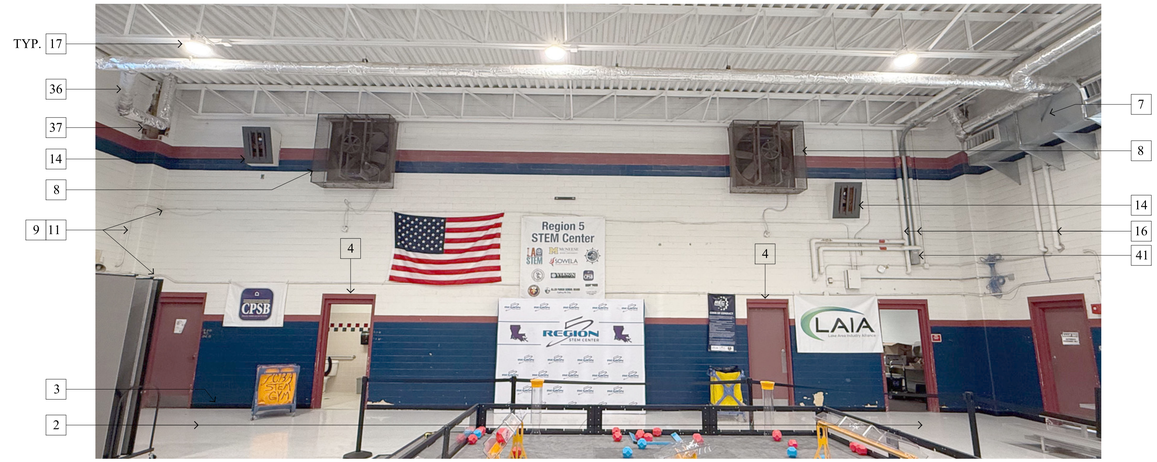
PRINT DATE
10/08/2026



Existing Photo - STEM Gym

SCALE: No Scale

1



Existing Photo - STEM Gym

SCALE: No Scale

2



Existing Photo - STEM Gym

SCALE: No Scale

3

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Existing Photo - STEM Gym

SCALE: No Scale

4

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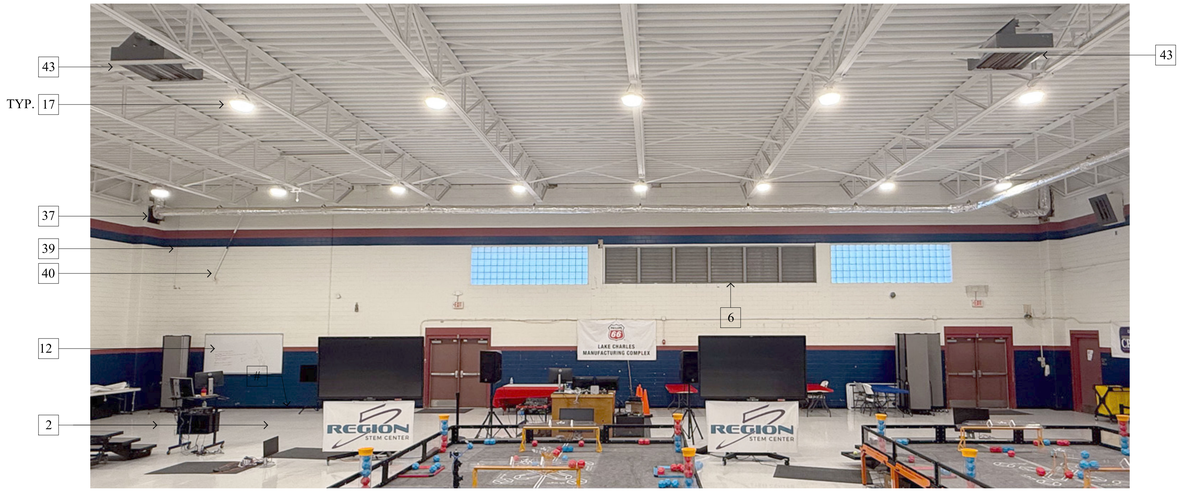
STEPHEN C. HOTARD
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A2.1

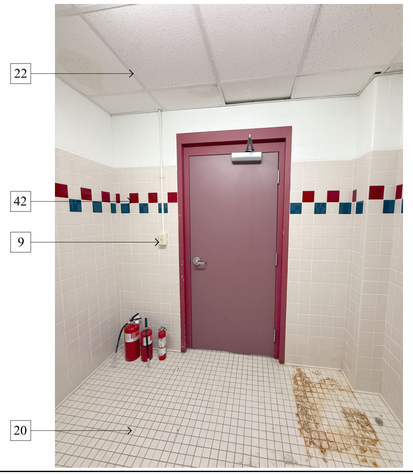
PRINT DATE
10/08/2026



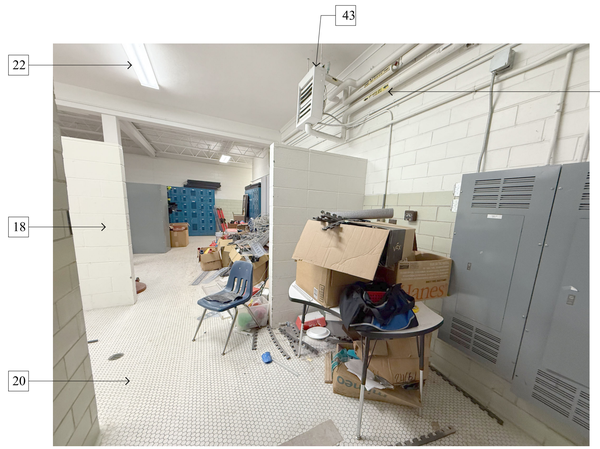
Existing Photo - STEM Gym SCALE: No Scale 5



Existing Photo - Existing Restroom Typical SCALE: No Scale 6



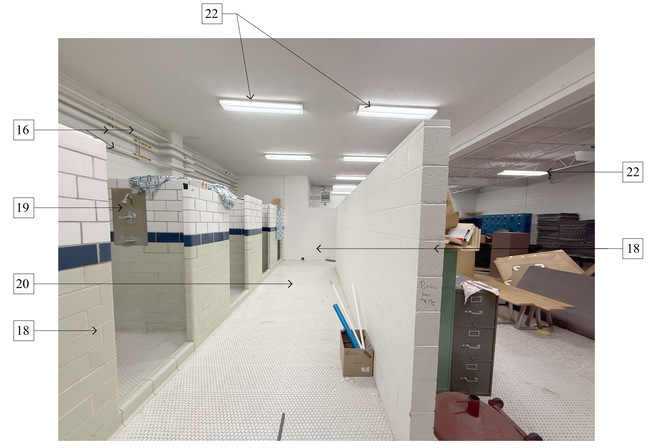
Existing Photo - Existing Restroom Typical SCALE: No Scale 7



Existing Photo - Existing Locker Room SCALE: No Scale 8



Existing Photo - Existing Locker Room SCALE: No Scale 9



Existing Photo - Existing Locker Room SCALE: No Scale 10

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board

1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STEPHEN C. HOTARD REG. NO 34525 STATE OF LOUISIANA REGISTERED ARCHITECT

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Existing Photo - Existing Locker Room SCALE: No Scale 14



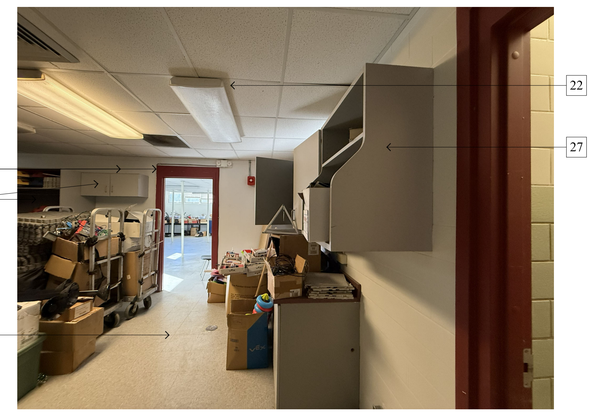
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STEM Gymnasium Improvements at the Region 5 STEM Center

For The Calcasieu Parish School Board

1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STEPHEN C. HOTARD REG. NO 32525 STATE OF LOUISIANA REGISTERED ARCHITECT

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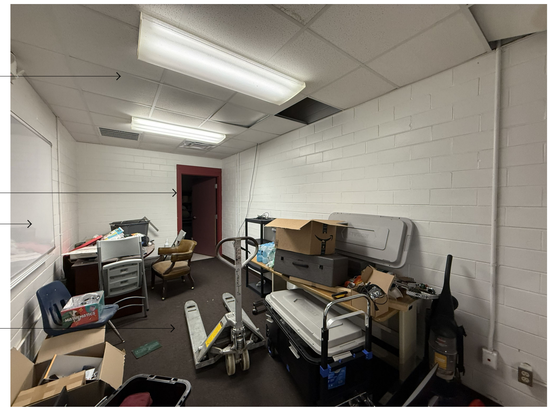
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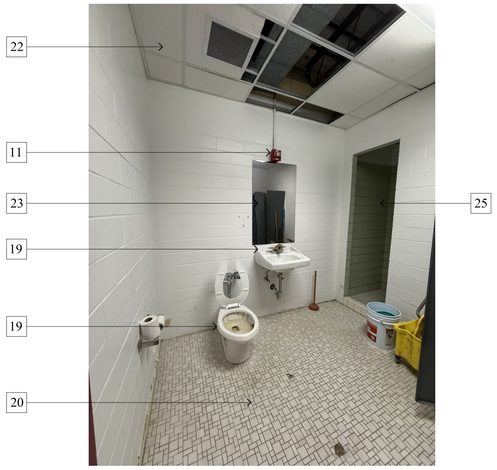
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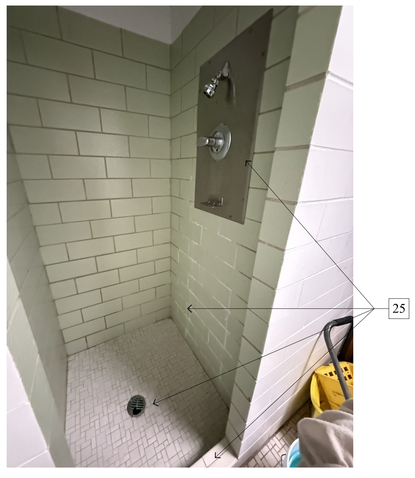
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Existing Photo - Existing SCALE: No Scale 22



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Existing Photo - Existing SCALE: No Scale 24

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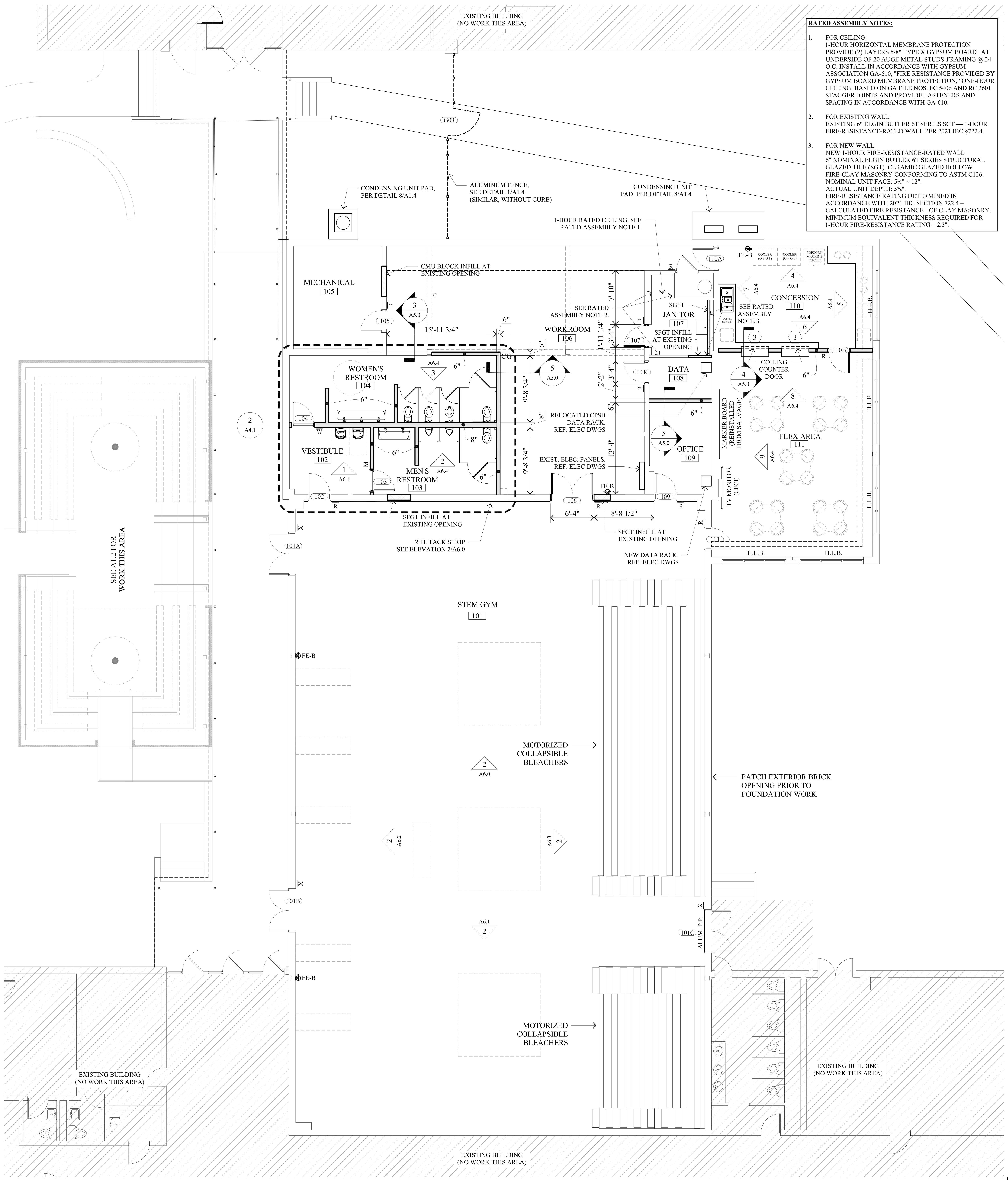
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RATED ASSEMBLY NOTES:

1. FOR CEILING:
1-HOUR HORIZONTAL MEMBRANE PROTECTION
PROVIDE (2) LAYERS 5/8" TYPE X GYPSUM BOARD AT UNDERSIDE OF 20 AUGE METAL STUDS FRAMING @ 24 O.C. INSTALL IN ACCORDANCE WITH GYPSUM ASSOCIATION GA-610, "FIRE RESISTANCE PROVIDED BY GYPSUM BOARD MEMBRANE PROTECTION," ONE-HOUR CEILING, BASED ON GA FILE NOS. FC 5406 AND RC 2601. STAGGER JOINTS AND PROVIDE FASTENERS AND SPACING IN ACCORDANCE WITH GA-610.

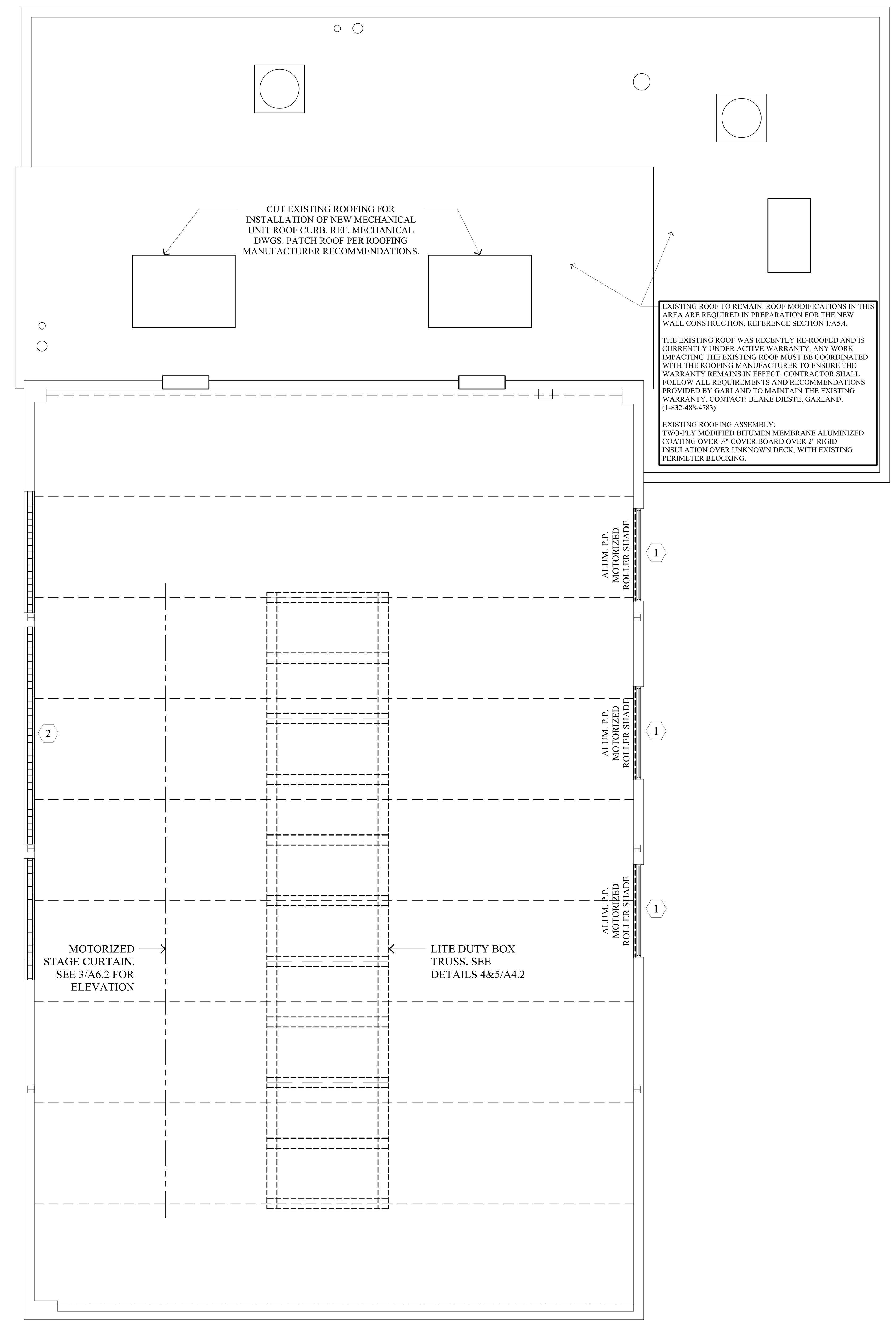
2. FOR EXISTING WALL:
EXISTING 6" ELGIN BUTLER 6T SERIES SGT — 1-HOUR FIRE-RESISTANCE-RATED WALL PER 2021 IBC §722.4.

3. FOR NEW WALL:
NEW 1-HOUR FIRE-RESISTANCE-RATED WALL
6" NOMINAL ELGIN BUTLER 6T SERIES STRUCTURAL GLAZED TILE (SGT), CERAMIC GLAZED HOLLOW FIRE-CLAY MASONRY CONFORMING TO ASTM C126.
NOMINAL UNIT FACE: 5⅓" × 12".
ACTUAL UNIT DEPTH: 5⅝".
FIRE-RESISTANCE RATING DETERMINED IN ACCORDANCE WITH 2021 IBC SECTION 722.4 – CALCULATED FIRE RESISTANCE OF CLAY MASONRY. MINIMUM EQUIVALENT THICKNESS REQUIRED FOR 1-HOUR FIRE-RESISTANCE RATING = 2.3".

New Floor Plan - STEM Gym — SCALE: 1/8" = 1'-0" — 1

SPECIALTIES LEGEND

CORRIDOR F115	ROOM NAME & NUMBER	CG	CORNER GUARD, SEE DETAILS 2&3/A3.0
F100	DOOR NUMBER (CORRESPONDS TO ROOM NUMBER)	FE-B	FIRE EXTINGUISHER, 10# ABC, BRACKET MOUNTED, REFER TO FIRE EXTINGUISHER SCHEDULE
		ALUM. P.P.	ALUMINUM PERFORATED PANEL, REF. DETAILS
M.B.	MARKER BOARD AS SPECIFIED (FROM SALAVAGE)	H.L.V.	1" HEAVY-DUTY COMMERCIAL ALUMINUM HORIZONTAL BLINDS
	MONITOR/TELEVISION, SUPPLIED AND INSTALLED BY OWNER (VERIFY SIZE).	ROLLER SHADE	MANUAL ROLLER SHADE
6"	STUD SIZE	RR	ADA COMPLIANT ROOM / EXIT SIGNAGE w/ A.D.A. CLEARANCE. REFER TO SIGNAGE SCHEDULE FOR TYPE.



EXISTING ROOF TO REMAIN. ROOF MODIFICATIONS IN THIS AREA ARE REQUIRED IN PREPARATION FOR THE NEW WALL CONSTRUCTION. REFERENCE SECTION 1/A5.4.

THE EXISTING ROOF WAS RECENTLY RE-ROOFED AND IS CURRENTLY UNDER ACTIVE WARRANTY. ANY WORK IMPACTING THE EXISTING ROOF MUST BE COORDINATED WITH THE ROOFING MANUFACTURER TO ENSURE THE WARRANTY REMAINS IN EFFECT. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS PROVIDED BY GARLAND TO MAINTAIN THE EXISTING WARRANTY. CONTACT: BLAKE DIESTE, GARLAND. (1-832-488-4783)

EXISTING ROOFING ASSEMBLY:
TWO-PLY MODIFIED BITUMEN MEMBRANE ALUMINIZED COATING OVER ½" COVER BOARD OVER 2" RIGID INSULATION OVER UNKNOWN DECK, WITH EXISTING PERIMETER BLOCKING.

New Upper Floor Plan - STEM Gym — SCALE: 1/8" = 1'-0" — 2

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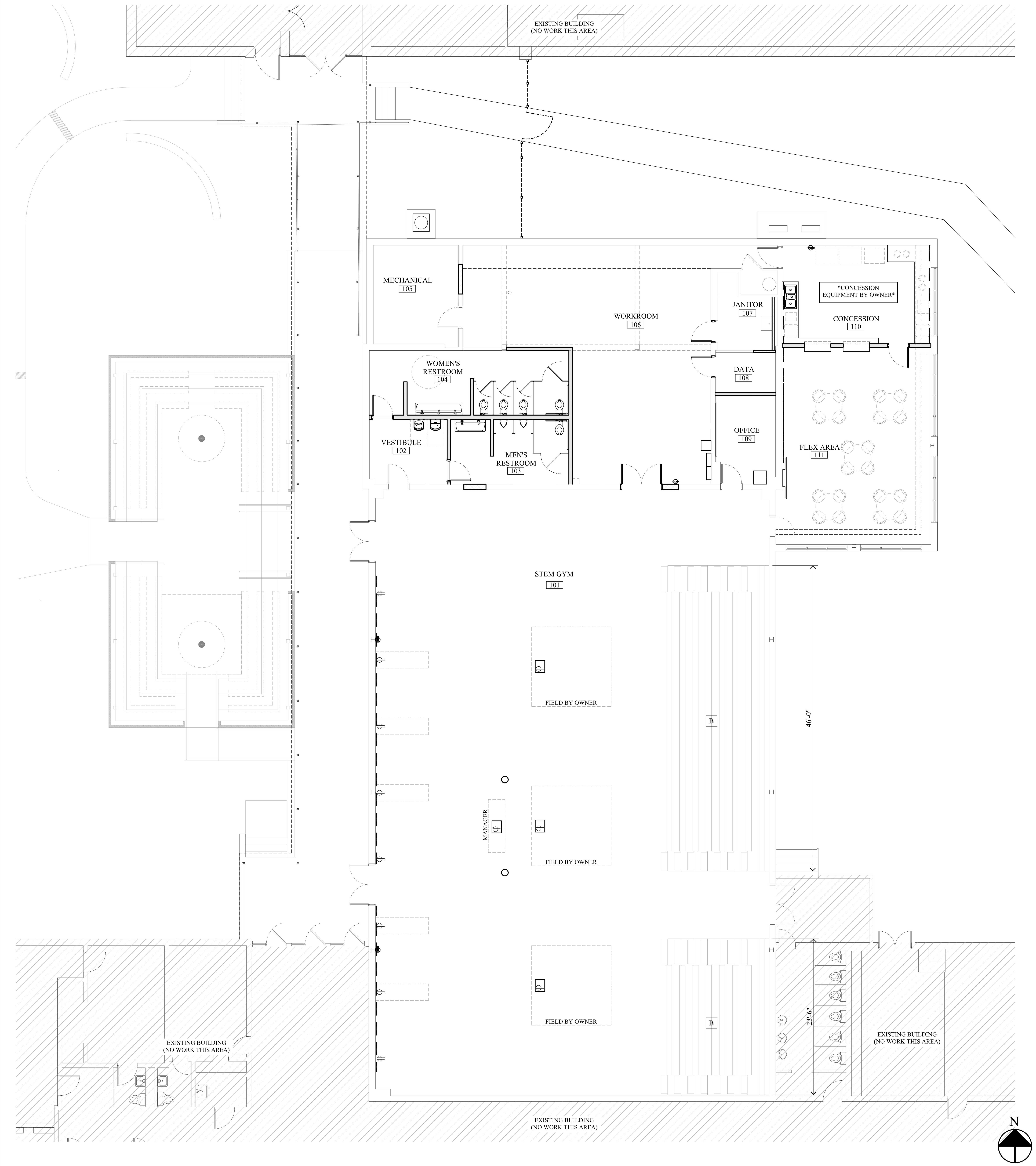
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New Equipment Plan - STEM Gym

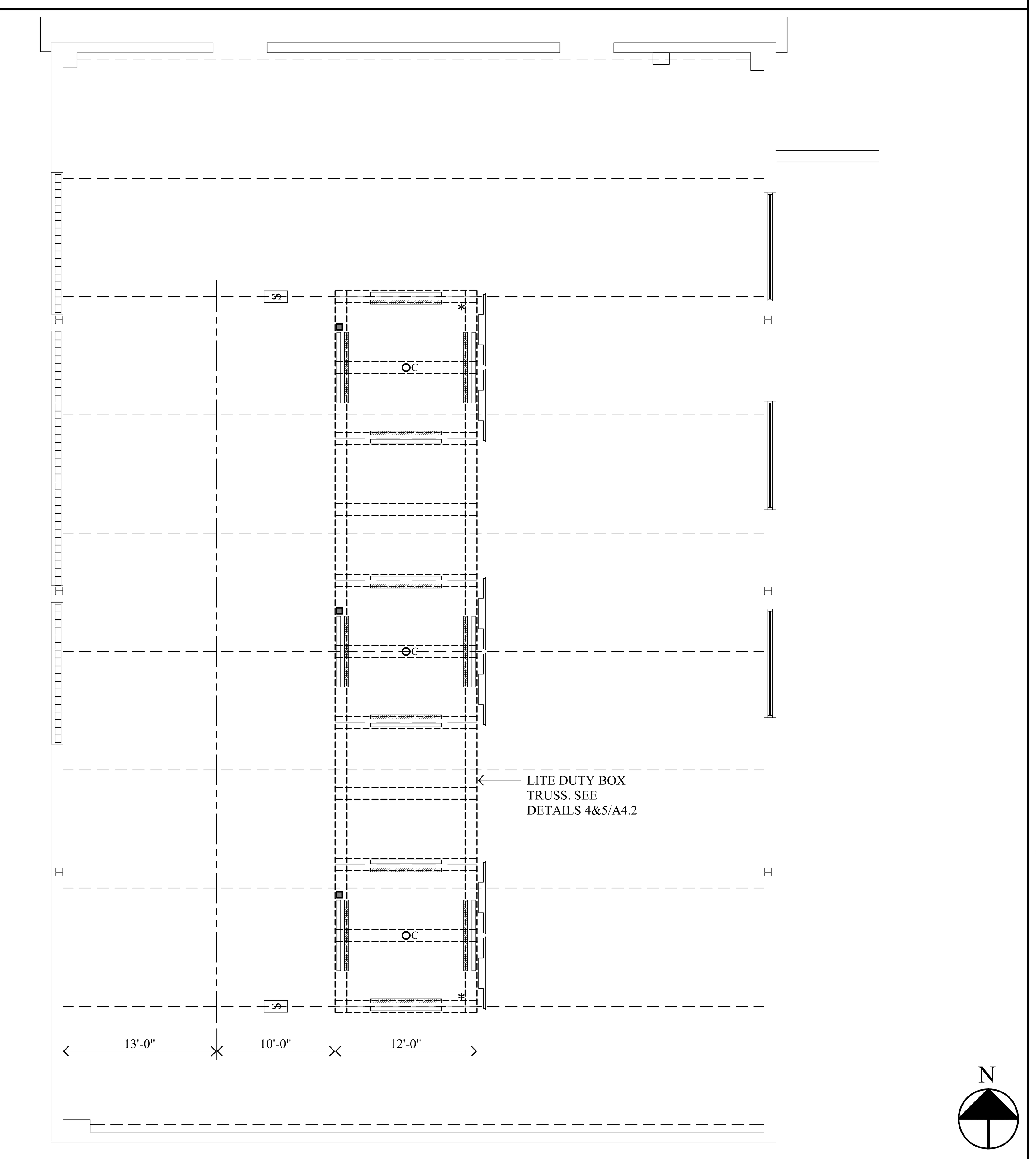
SCALE: 1/8" = 1'-0"

1

Equipment Schedule

MARK	ITEM	MANUFACTURER/ MODEL	NOTES	TOTAL COUNT PROVIDED BY CONTRACTOR
B	MOTORIZED COLLAPSIBLE BLEACHERS	Sheridan Gymnasium Equipment (Basis of Design)		2 SETS
	SUSPENDED 12x12 LITE DUTY BOX TRUSS	COLOR: BLACK	SUSPENDED FROM CEILING	10': 11 5': 20 CB: 22
	MOTORIZED STAGE CURTAIN	Gared "Roll-Up Divider Curtain 4030" (Basis of Design)	SUSPENDED FROM CEILING	1
	TELEVISION	Samsung QN90 Series 85" Class Neo QLED 4K Mini LED Smart TV, QN90F	ATTACHED TO BOX TRUSS	6
S	SPEAKERS	Yorkville PSA28 Loudspeaker (4) Yorkville PSA18s Subwoofer (2)	SUSPENDED FROM CEILING PLACEMENT BY A/V CONTRACTOR	
oC	CAMERAS	BirdDog X4E Ultra	ATTACHED TO BOX TRUSS	3
	DMX LIGHTING	Chauvet DJ COLORband PiX-M	ATTACHED TO BOX TRUSS	12
*	LASER	Chauvet DJ Scorpion Dual RGB	ATTACHED TO BOX TRUSS	2
o	FOG MACHINE	BY OWNER		0
	FLOOR BOX	REFERENCE ELECTRICAL DRAWINGS		4
	POWER STRIP (4 OUTLETS)	REFERENCE ELECTRICAL DRAWINGS	ATTACHED TO BOX TRUSS	12
	SURFACE MOUNT WALL OUTLET (ON RACEWAY)	REFERENCE ELECTRICAL DRAWINGS		
	RACEWAY	REFERENCE ELECTRICAL DRAWINGS		
▪	NETWORK SWITCH	BY OWNER (3 TOTAL)	ATTACHED TO BOX TRUSS	0

****REFERENCE ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF ELECTRICAL WORK****



New Upper Floor Equipment Plan - STEM Gym

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

2

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STEPHEN C. HOTARD REG. NO 5555 STATE OF LOUISIANA REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

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10/08/2026

Room Finish Schedule

	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLG. HT.	NOTES
101	STEM GYM	LVT	4" RUBBER BASE	NORTH: EXISTING SGFT WALL TO REMAIN, TO PAINT. PATCH WHERE NECESSARY. SOUTH: EXISTING SGFT WALL TO REMAIN, TO PAINT. PATCH WHERE NECESSARY. EAST: EXISTING SGFT WALL TO REMAIN, TO PAINT. PATCH WHERE NECESSARY. WEST: EXISTING SGFT WALL TO REMAIN, TO PAINT. PATCH WHERE NECESSARY.	EXPOSED STRUCTURE, PAINTED	22'-8 "±	
102	VESTIBULE	LVT	4" RUBBER BASE	NORTH: 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT SOUTH: 5/8" M.M.R. GYPSUM BOARD, OVER FURRING STRIPS ON EXISTING SGFT, SMOOTH FINISH, TO PAINT EAST: 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT WEST: 5/8" M.M.R. GYPSUM BOARD, OVER FURRING STRIPS ON EXISTING SGFT, SMOOTH FINISH, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-2	8'-8"	
103	MEN'S RESTROOM	12x12 PORCELAIN TILE	PORCELAIN COVE BASE	NORTH: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 7'-2" A.F.F./ 5/8" M.M.R. GYPSUM BOARD ABOVE, SMOOTH FINISH, TO PAINT SOUTH: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 7'-2" A.F.F. OVER FURRING STRIPS ON EXISTING SGFT/ 5/8" M.M.R. GYPSUM BOARD ABOVE, SMOOTH FINISH, TO PAINT EAST: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 7'-2" A.F.F./ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT WEST: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 7'-2" A.F.F./ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-2	8'-8"	
104	WOMEN'S RESTROOM	12x12 PORCELAIN TILE	PORCELAIN COVE BASE	NORTH: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 7'-2" A.F.F. OVER FURRING STRIPS ON EXISTING SGFT/ 5/8" M.M.R. GYPSUM BOARD ABOVE, SMOOTH FINISH, TO PAINT SOUTH: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 8'-0" A.F.F./ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT EAST: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 8'-0" A.F.F./ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT WEST: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 7'-2" A.F.F. OVER FURRING STRIPS ON EXISTING SGFT/ 5/8" M.M.R. GYPSUM BOARD ABOVE, SMOOTH FINISH, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-2	8'-8"	
105	MECHANICAL	SEALED CONCRETE	4" RUBBER BASE	NORTH: EXISTING WALL TO REMAIN SOUTH: EXISTING WALL TO REMAIN EAST: EXISTING WALL TO REMAIN WEST: EXISTING WALL TO REMAIN	EXPOSED STRUCTURE		
106	WORKROOM	VCT	4" RUBBER BASE	NORTH: EXISTING SGFT WALL TO REMAIN, TO PAINT SOUTH: EXISTING SGFT WALL TO REMAIN, PATCH EXISTING OPENING, TO PAINT. PATCH AS NECESSARY/NEW 5/8" M.M.R. GYPSUM BOARD, SMOOTH FINISH, TO PAINT / EXISTING CMU WALL TO REMAIN, TO PAINT EAST: EXISTING SGFT WALL TO REMAIN, TO PAINT WEST: NEW 5/8" M.M.R. GYPSUM BOARD, SMOOTH FINISH, TO PAINT / EXISTING CMU WALL TO REMAIN, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-1	9'-0"	
107	JANITOR	12x12 PORCELAIN TILE	PORCELAIN COVE BASE	NORTH: GLAZED PORCELAIN TILE OVER 5/8" CEMENT BOARD TO 8'-0" A.F.F./ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT SOUTH: EXISTING CMU WALLS TO REMAIN, TO PAINT/ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT EAST: EXISTING CMU WALLS TO REMAIN, TO PAINT/ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT WEST: EXISTING CMU WALLS TO REMAIN, TO PAINT/ 5/8" M.M.R. GYPSUM BOARD., SMOOTH FINISH, TO PAINT	1- HOUR RATED (UL- 2 LAYER GYPSUM BOARD	8'-8"	
108	DATA	VCT	4" RUBBER BASE	NORTH: EXISTING SGFT WALL TO REMAIN, PATCH EXISTING OPENING, TO PAINT SOUTH: NEW 5/8" M.M.R. GYPSUM BOARD, SMOOTH FINISH, TO PAINT EAST: EXISTING SGFT WALL TO REMAIN, TO PAINT WEST: EXISTING SGFT WALL TO REMAIN, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-1	8'-8"	
109	OFFICE	VCT	4" RUBBER BASE	NORTH: NEW 5/8" M.M.R. GYPSUM BOARD, SMOOTH FINISH, TO PAINT SOUTH: EXISTING SGFT WALL TO REMAIN, TO PAINT EAST: EXISTING SGFT WALL TO REMAIN, TO PAINT WEST: EXISTING SGFT WALL TO REMAIN, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-1	8'-8"	
110	CONCESSION	VCT	4" RUBBER BASE	NORTH: EXISTING SGFT WALL TO REMAIN, TO PAINT SOUTH: NEW 5/8" M.M.R. GYPSUM BOARD, SMOOTH FINISH, TO PAINT EAST: EXISTING SGFT WALL TO REMAIN, TO PAINT WEST: EXISTING SGFT WALL TO REMAIN, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-2	8'-0"/9'-4"	
111	FLEX AREA	VCT	4" RUBBER BASE	NORTH: NEW 5/8" M.M.R. GYPSUM BOARD, SMOOTH FINISH, TO PAINT SOUTH: EXISTING SGFT WALL TO REMAIN, TO PAINT EAST: EXISTING SGFT WALL TO REMAIN, TO PAINT WEST: EXISTING BRICK WALL TO REMAIN, TO PAINT	2'x2' SUSPENDED ACOUSTICAL TILE - ACT-1	8'-0"/9'-4"	

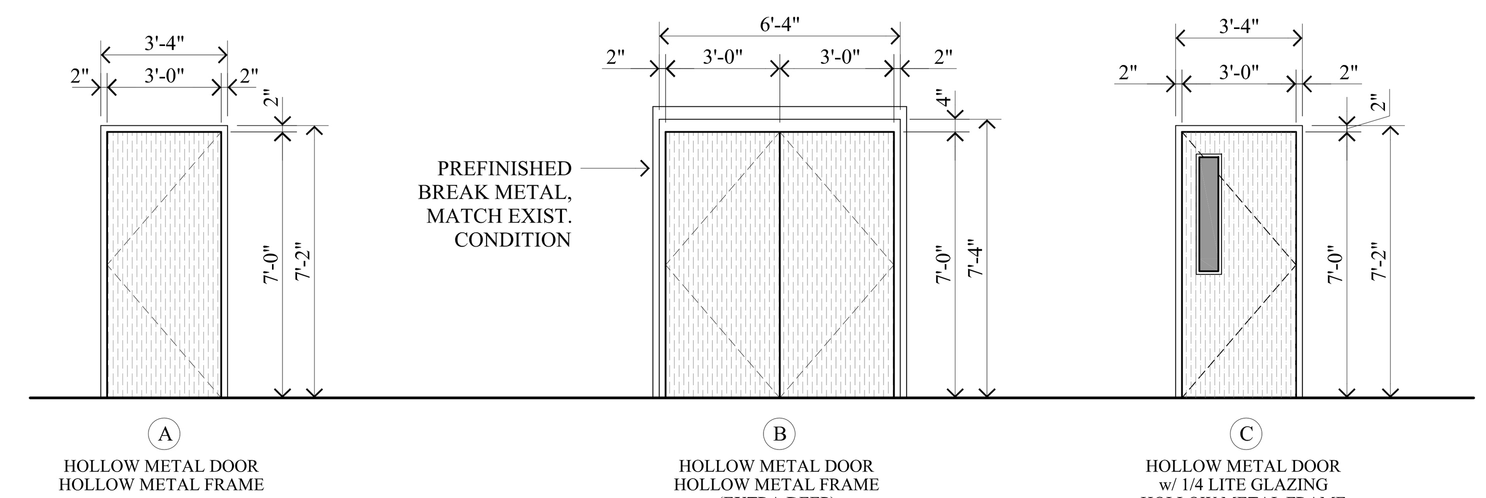
Room Finish Schedule

SCALE: None

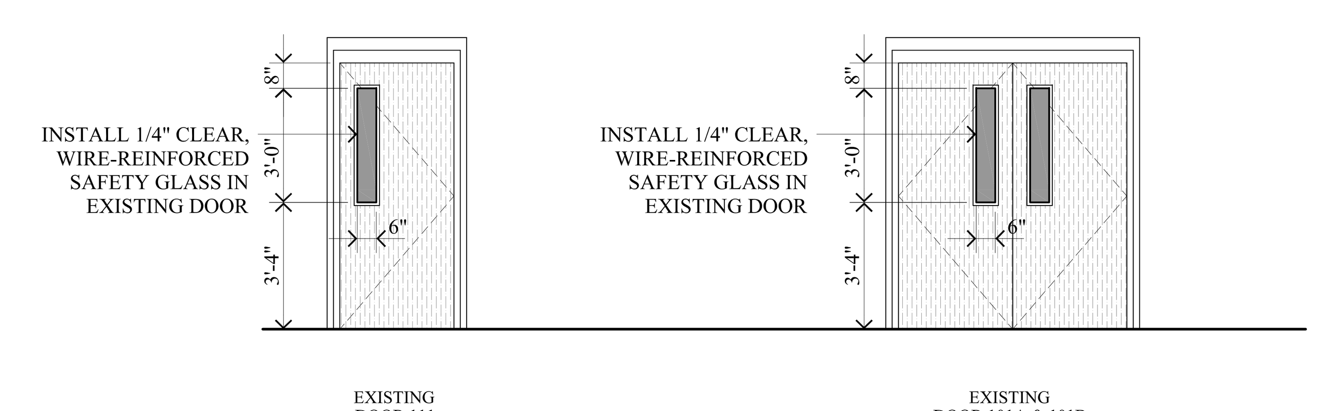
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Door Schedule

NO.	TYPE	DOOR				FRAME			NOTES
		WIDTH	HEIGHT	MATERIAL	FINISH	MATERIAL	FINISH	RATING	
101A	EXIST.	6'-0" (PAIR)	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT. INSTALL 1/4 LITE KIT.
101B	EXIST.	6'-0" (PAIR)	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT. INSTALL 1/4 LITE KIT.
101C	EXIST.	6'-0" (PAIR)	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT
102	EXIST.	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT
103	A	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		
104	A	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		
105	EXIST.	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT
106	B	6'-0" (PAIR)	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		EXTRA DEEP FRAME - 10 1/2" THROAT
107	A	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		
108	A	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		
109	EXIST.	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT
110A	EXIST.	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT
110B	C	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		
111	EXIST.	3'-0"	7'-0"	HOLLOW METAL	PAINTED	HOLLOW METAL	PAINTED		CLEAN, PREP, AND REPAINT. INSTALL 1/4 LITE KIT.



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



DOOR LITE KIT ELEVATIONS
SCALE:1/4" = 1'-0"

Door Schedule and Elevations

SCALE: None

2

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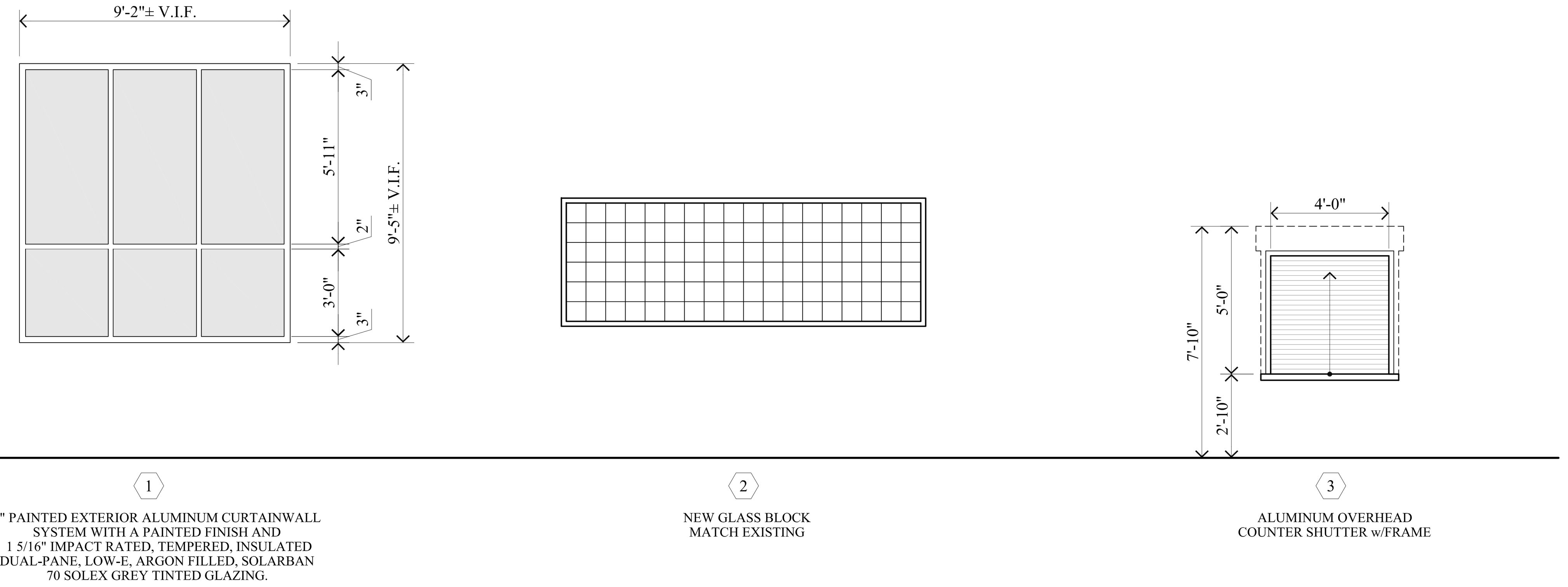
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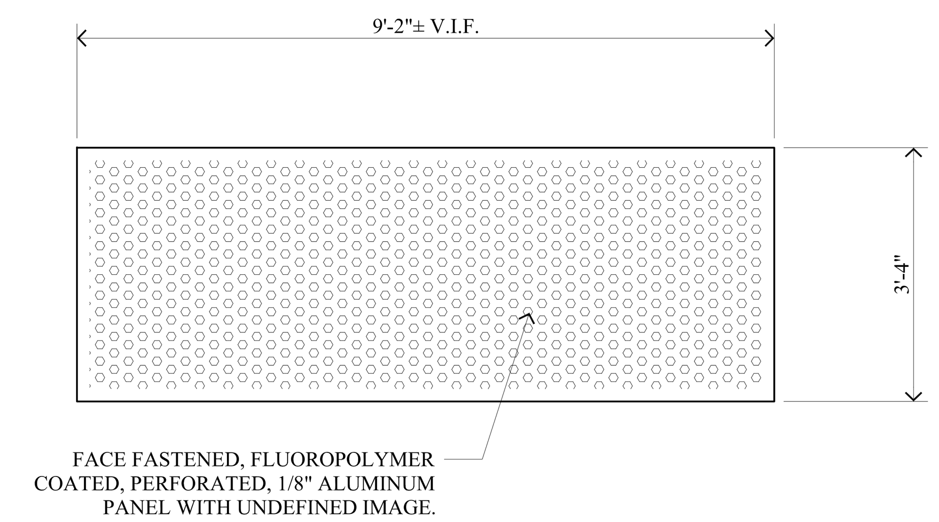
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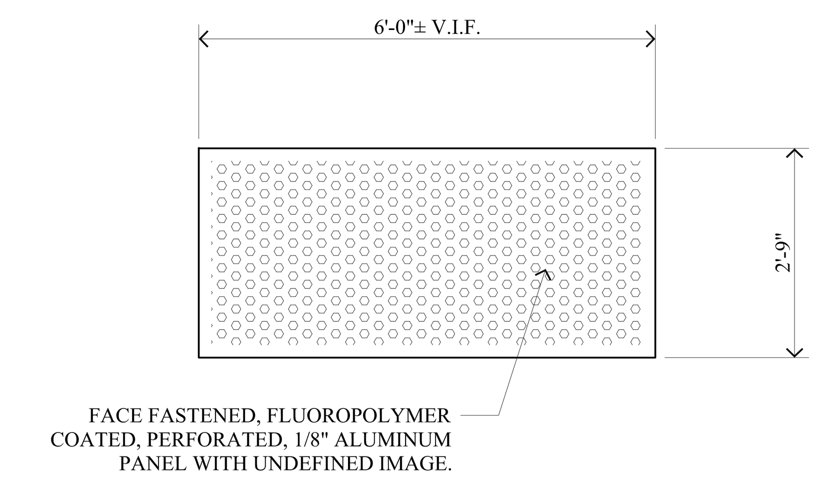
Window Elevations

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



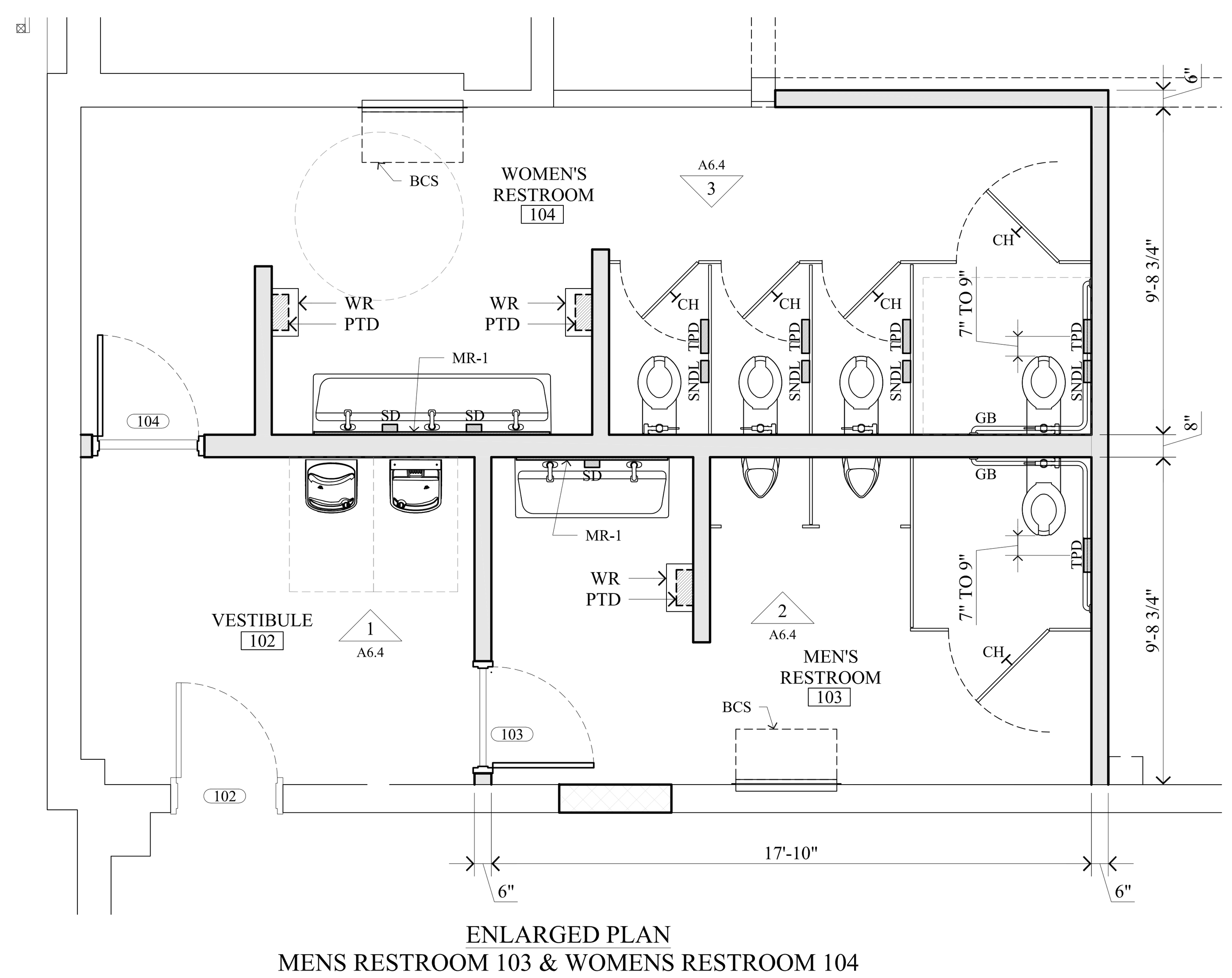
Perforated Panel at Window '1'

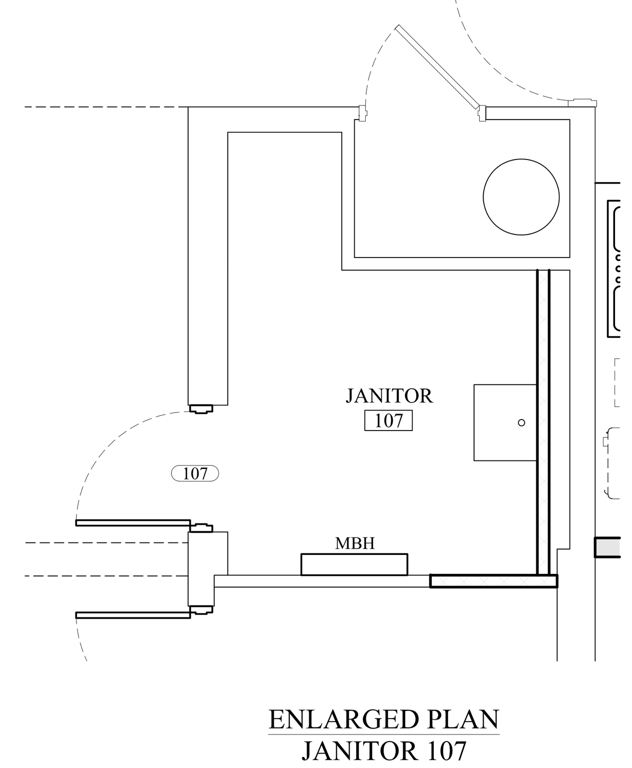
SCALE: 1/2" = 1'-0" (3)

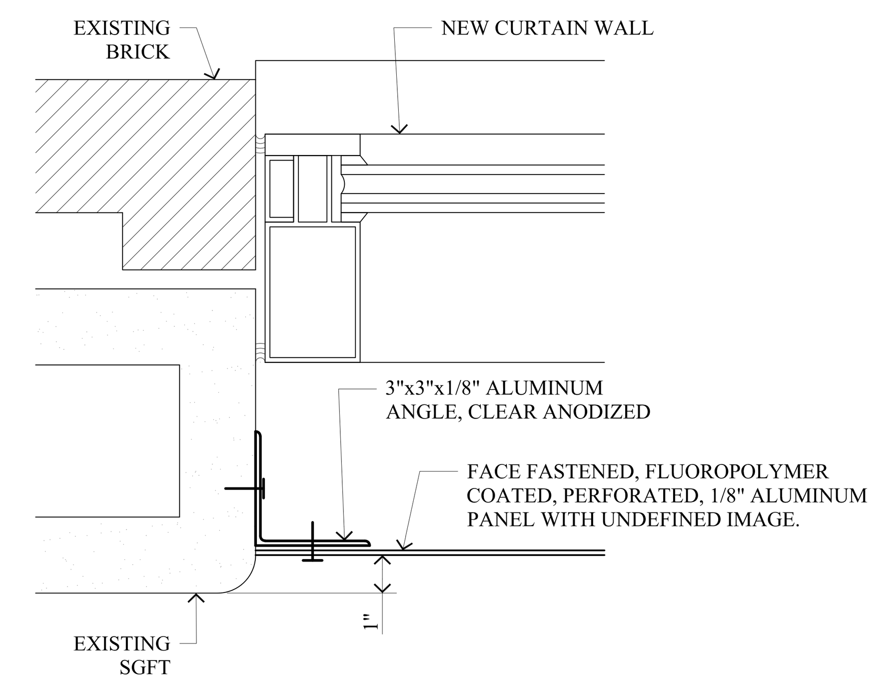


Perforated Panel at Transom Above Door 101C

SCALE: 1/2" = 1'-0" (4)

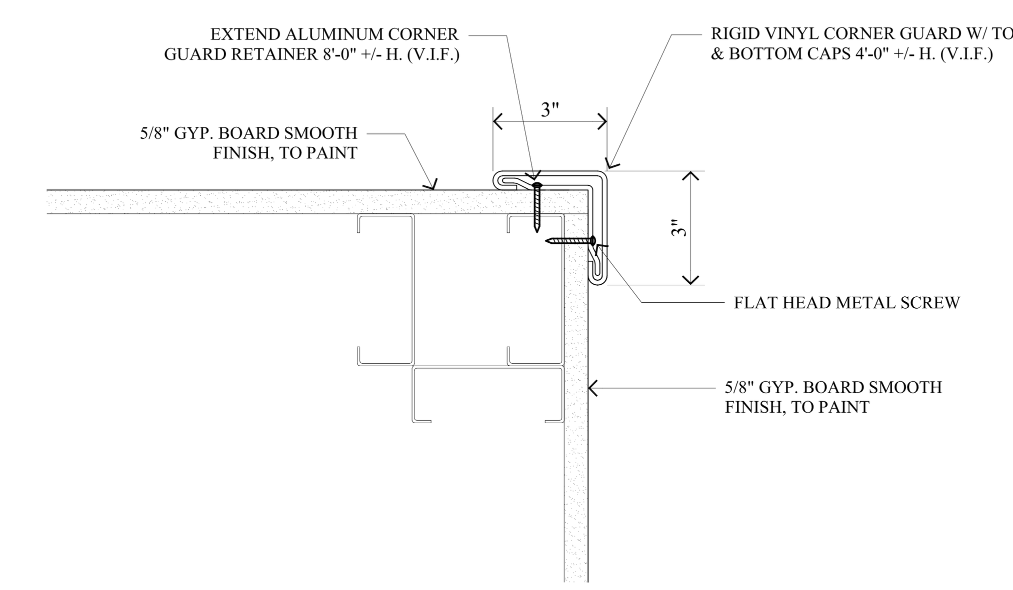






Perforated Panel Attachment Detail

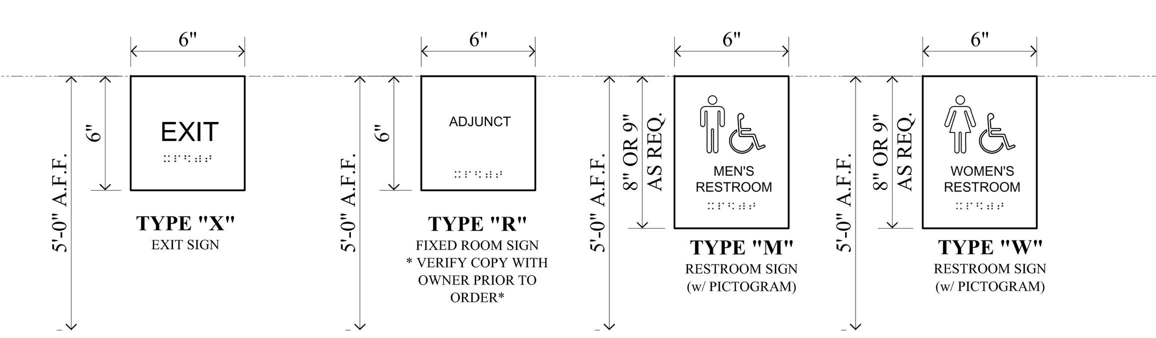
SCALE: 3" = 1'-0" (5)



Corner Guard Detail CG

SCALE: 3" = 1'-0" (6)

SYMBOL	DESCRIPTION	SIZE	MODEL
X	EXIT	6" x 6"	BEST SIGN SYSTEMS 'GRAPHIC BLAST' OR MOHAWK SIGN SYSTEMS 200A SAND CARVED
R	ROOM NAME/ NUMBER	6" x 6"	BEST SIGN SYSTEMS 'GRAPHIC BLAST' OR MOHAWK SIGN SYSTEMS 200A SAND CARVED
M	MEN'S RESTROOM (w/ SYMBOLS)	6" x 8"	BEST SIGN SYSTEMS 'GRAPHIC BLAST' OR MOHAWK SIGN SYSTEMS 200A SAND CARVED
W	WOMEN'S RESTROOM (w/ SYMBOLS)	6" x 8"	BEST SIGN SYSTEMS 'GRAPHIC BLAST' OR MOHAWK SIGN SYSTEMS 200A SAND CARVED

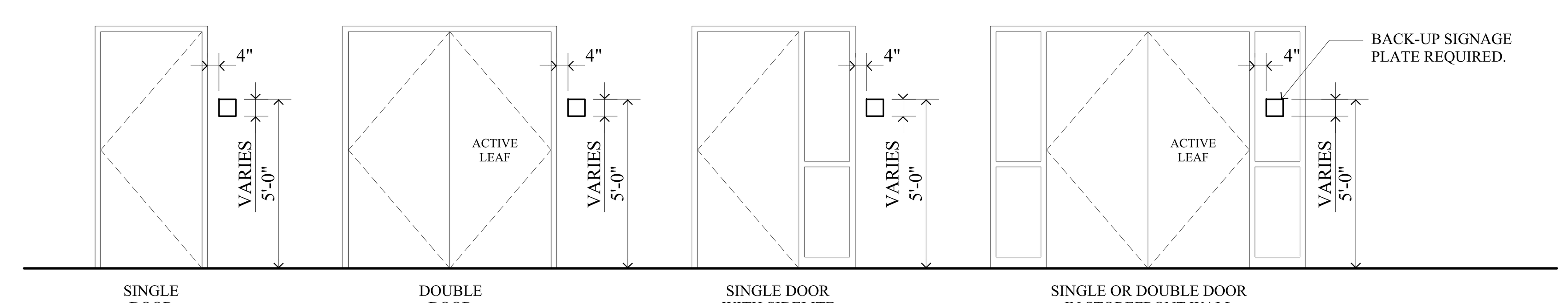


SIGNAGE INSTALLATION NOTE:

MOUNT ALL A.D.A. COMPLIANT SIGNAGE AT 5'-0" (60") TO THE TOP OF THE SIGN, ABOVE FINISHED FLOOR, AND 3" FROM THE EDGE OF THE DOOR FRAME, AT THE STRIKE SIDE, UNLESS NOTED OTHERWISE.

REFER TO MOUNTING DIAGRAMS FOR MOUNTING AT DOUBLE DOORS, SIDELITE FRAMES, AND GLASS/STOREFRONT WALLS.

WHERE A CONFLICT EXISTS WITH AN ADJACENT WALL , DOOR, OR OTHER OBSTRUCTION, CONSULT THE ARCHITECT, PRIOR TO INSTALLATION.



Signage Schedule

SCALE: 1 1/2" = 1'-0" (7)

Toilet Accessory Schedule

MARK	DESCRIPTION	MANUF/ MODEL #	WOMEN R.R. 104	MEN R.R. 103	JANITOR 107
GB	GRAB BAR, 42"X54"	BOBRICK #6897	1	1	--
TPD	TOILET PAPER DISPENSER	OWNER SUPPLIED, CONTRACTOR INSTALLED	4	1	--
PTD	PAPER TOWEL DISPENSER	OWNER SUPPLIED, CONTRACTOR INSTALLED	2	1	--
WR	WASTE RECEPTACLE	OWNER SUPPLIED, CONTRACTOR INSTALLED	2	1	--
SNDL	SANITARY NAPKIN DISPOSAL	BOBRICK B-254	4	0	--
SD	SOAP DISPENSER	OWNER SUPPLIED, CONTRACTOR INSTALLED	2	1	--
MR-1	1/4" SHEET MIRROR W/POLISHED EDGES	REFER TO ELEVATIONS FOR SIZES	1	1	--
CH	COAT HOOK	BOBRICK B-76727	4*	1*	--
BCS	BABY CHANGING STATION	KOALA KARE KB200-01SS	1	1	--
MBH	MOP AND BROOM HOOK	BOBRICK #239x34	--	--	1

NOTES:
1. COAT HOOKS MARK "CH" INDICATED AT TOILET COMPARTMENTS MAY BE OMITTED IF PROVIDED AS PART OF THE TOILET PARTITION PACKAGE.
2. VERIFY MOUNTING HEIGHTS OF ALL ITEMS WITH ARCHITECT PRIOR TO INSTALLATION OF BLOCKING IN WALLS.
3. PROVIDE SOLID 2X BLOCKING IN WALLS FOR ANCHORING OF ALL TOILET ACCESSORIES.
4. PROVIDE CONTINUOUS VERTICAL 2X BLOCKING IN WALLS FOR ANCHORING OF CONTINUOUS BRACKETS AT ALL TOILET COMPARTMENTS AND SCREENS.

Toilet Accessory Schedule

SCALE: 1/4" = 1'-0" (2)

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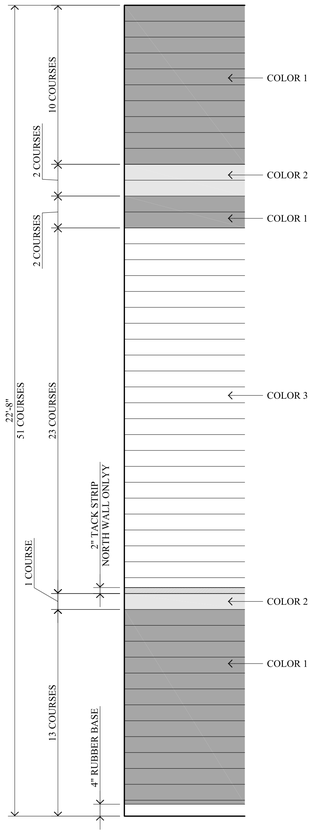
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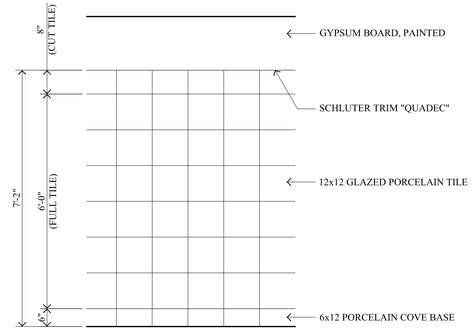
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Typ. Walls in STEM Gym

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



Typ. Tile Elevation

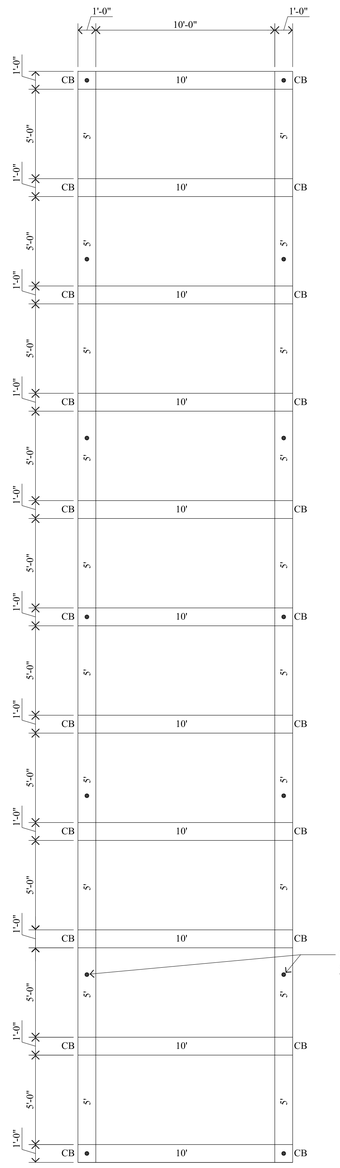
SCALE: 1/2" = 1'-0" (2)

Fire Extinguisher Schedule

FE-B	FIRE EXTINGUISHER -	BRACKET MOUNTED
	J. L. INDUSTRIES	EXTINGUISHER: COSMIC 10E, 10#, 4A:80BC, STANDARD BRACKET MOUNTING
	LARSENS	EXTINGUISHER: MP10, 10#, 4A:80BC, STANDARD BRACKET MOUNTING

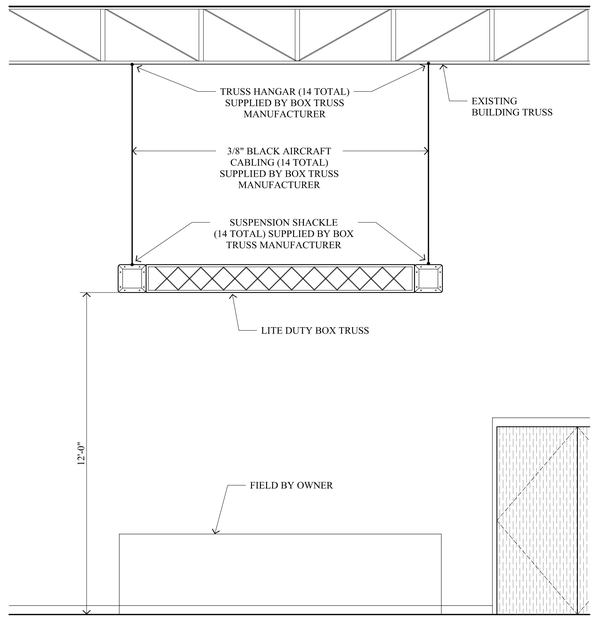
Fire Extinguisher Schedule

SCALE: None (3)



Lite Duty Box Truss Plan

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



Lite Duty Box Truss Section

SCALE: 3/8" = 1'-0" (5)

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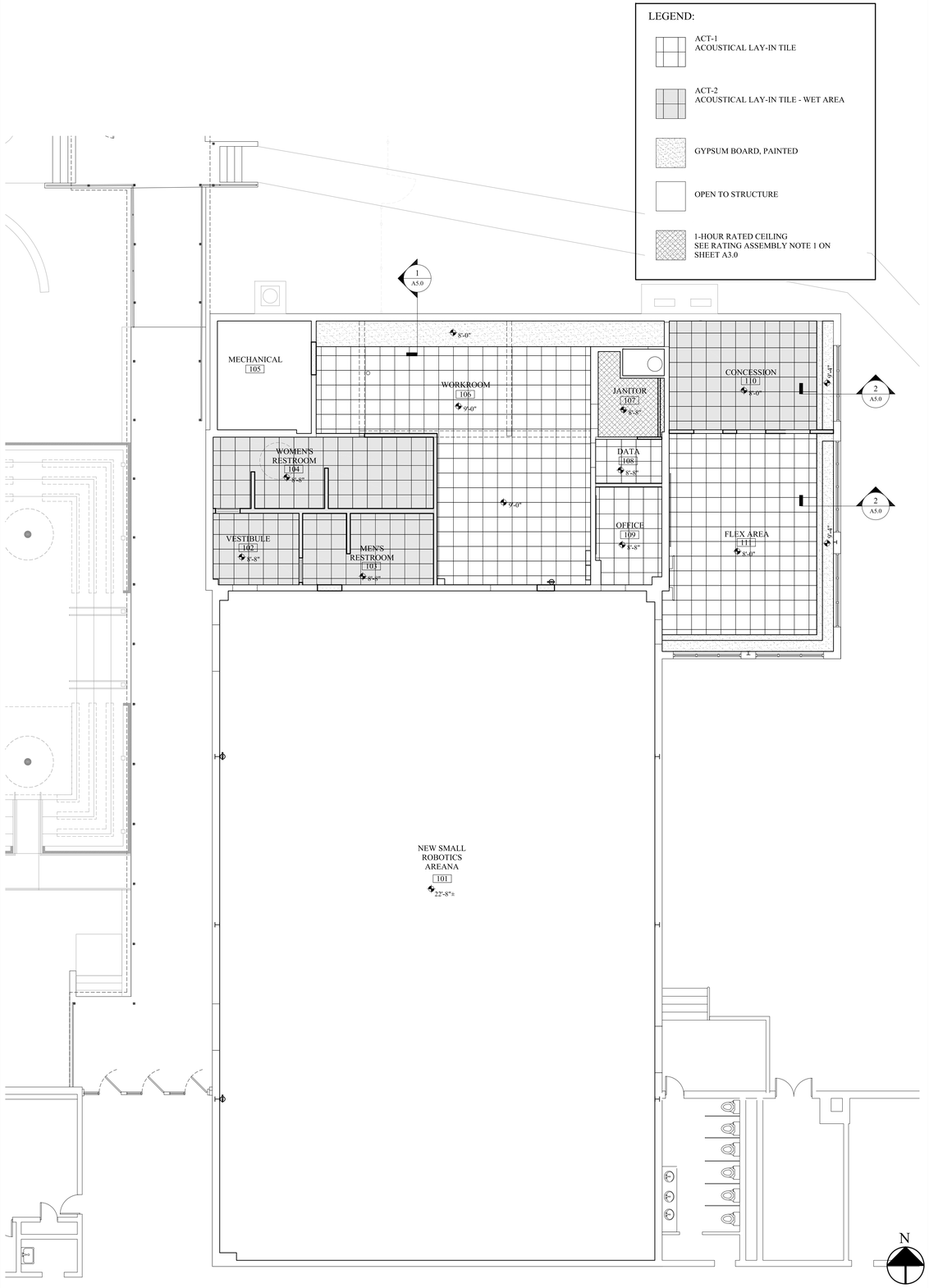
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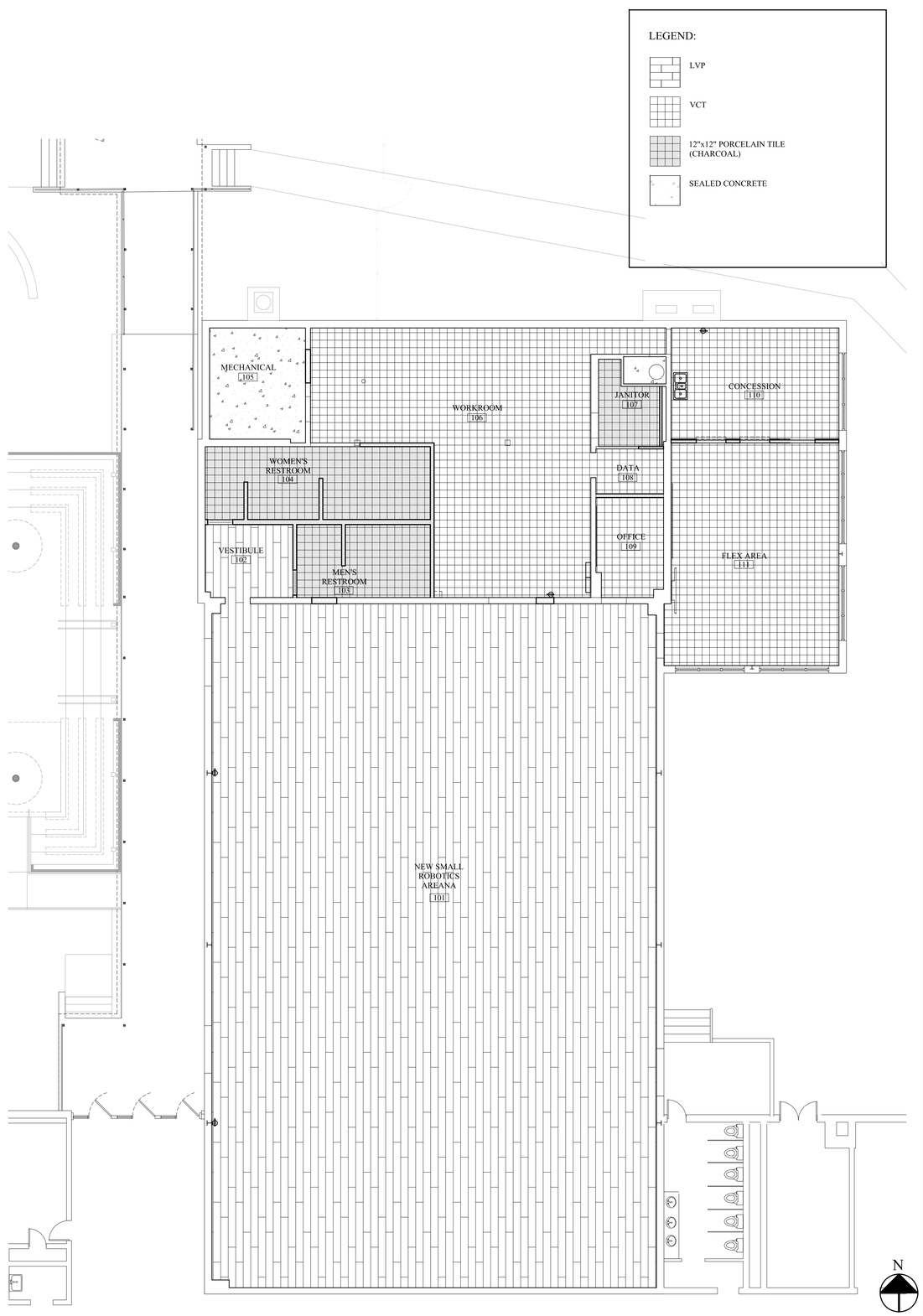
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Reflected Ceiling Plan

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

1



Flooring Plan

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

2

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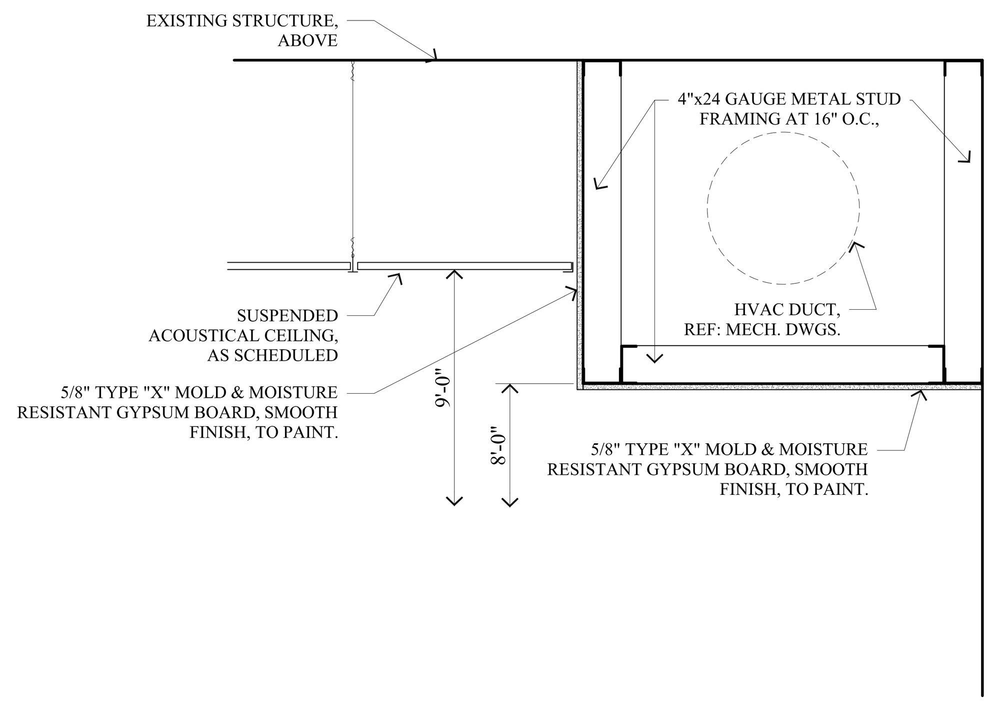
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STATE OF LOUISIANA
REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

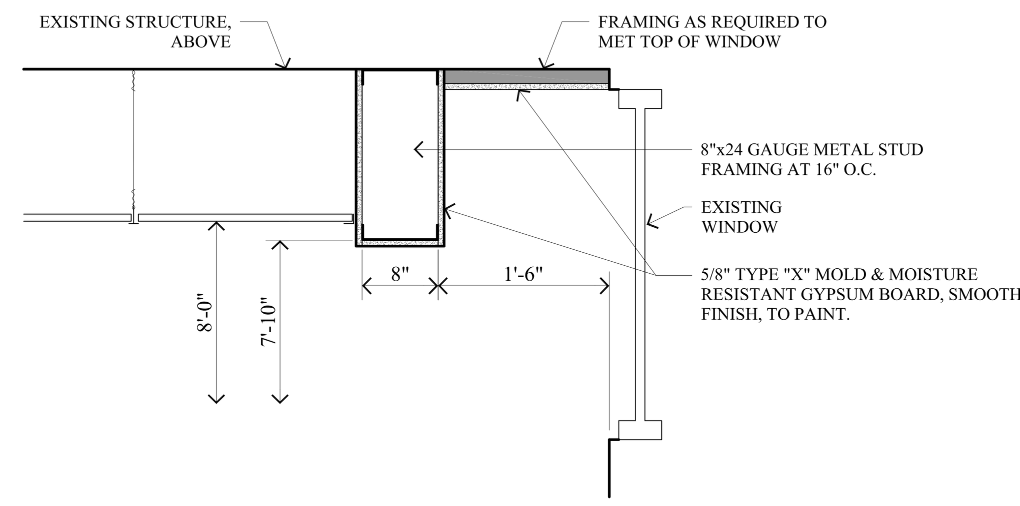
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A4.3

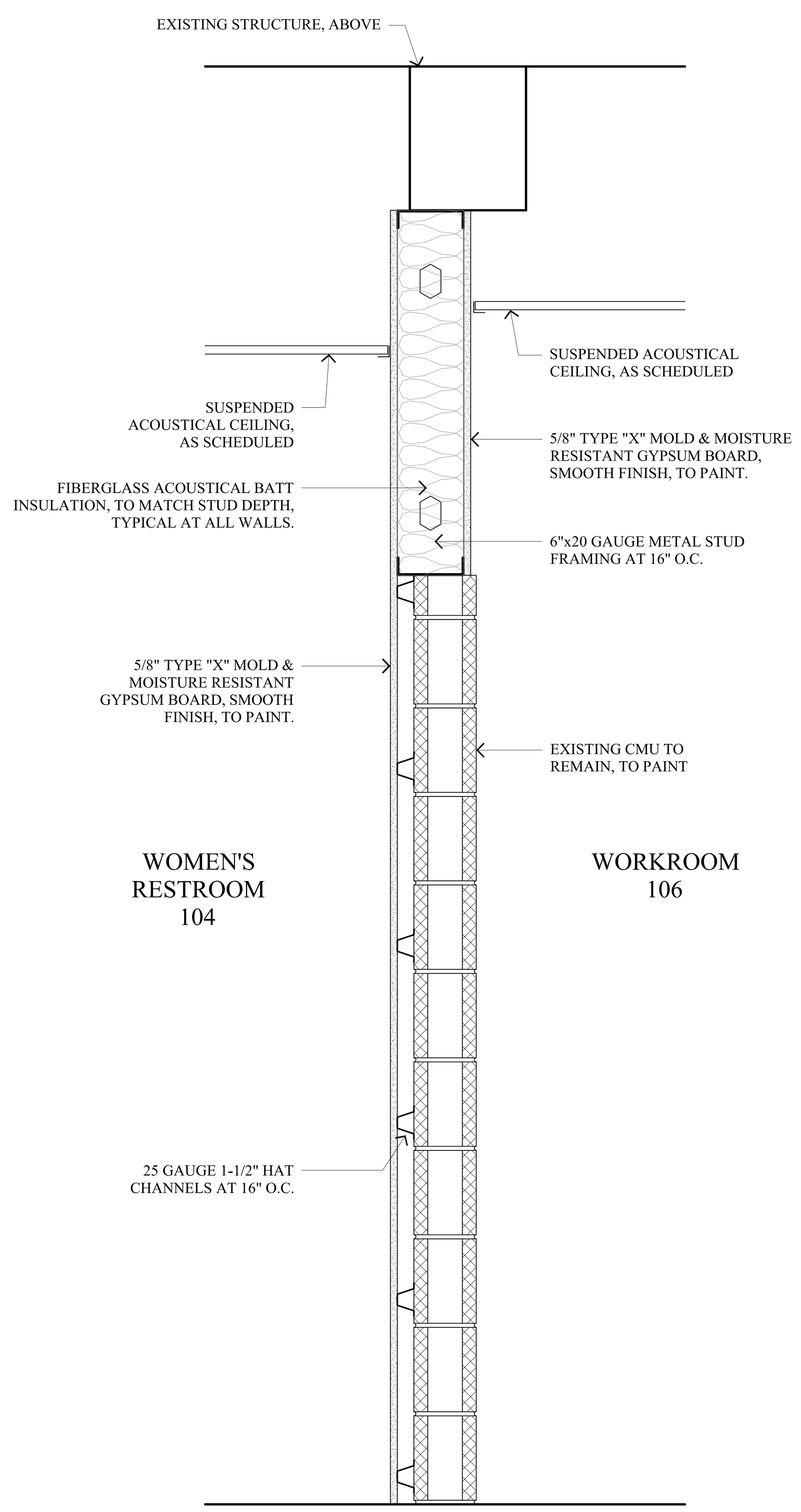
PRINT DATE
10/08/2026



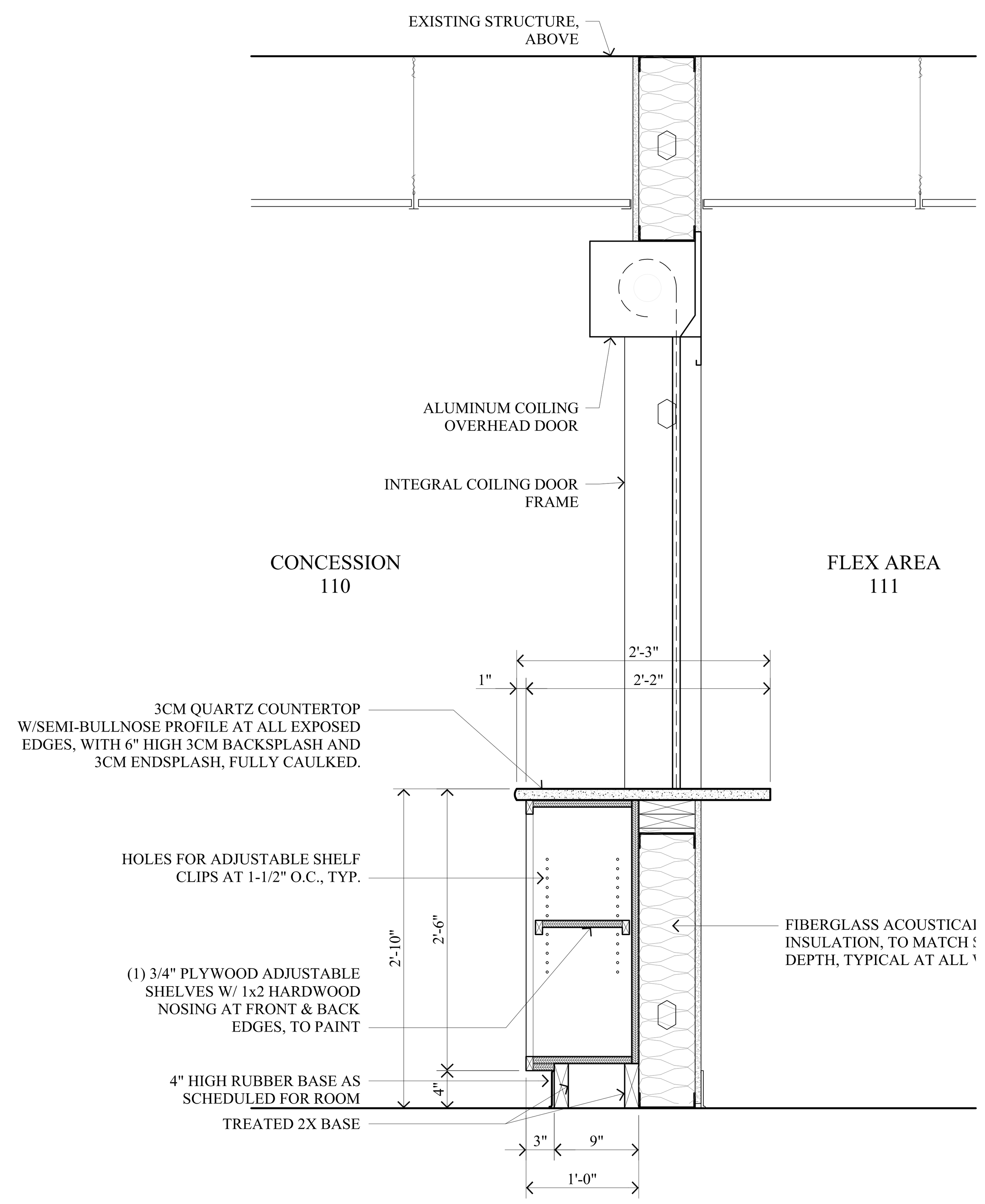
Ceiling Furr-down - Workroom 106 SCALE: 3/4" = 1'-0" (1)



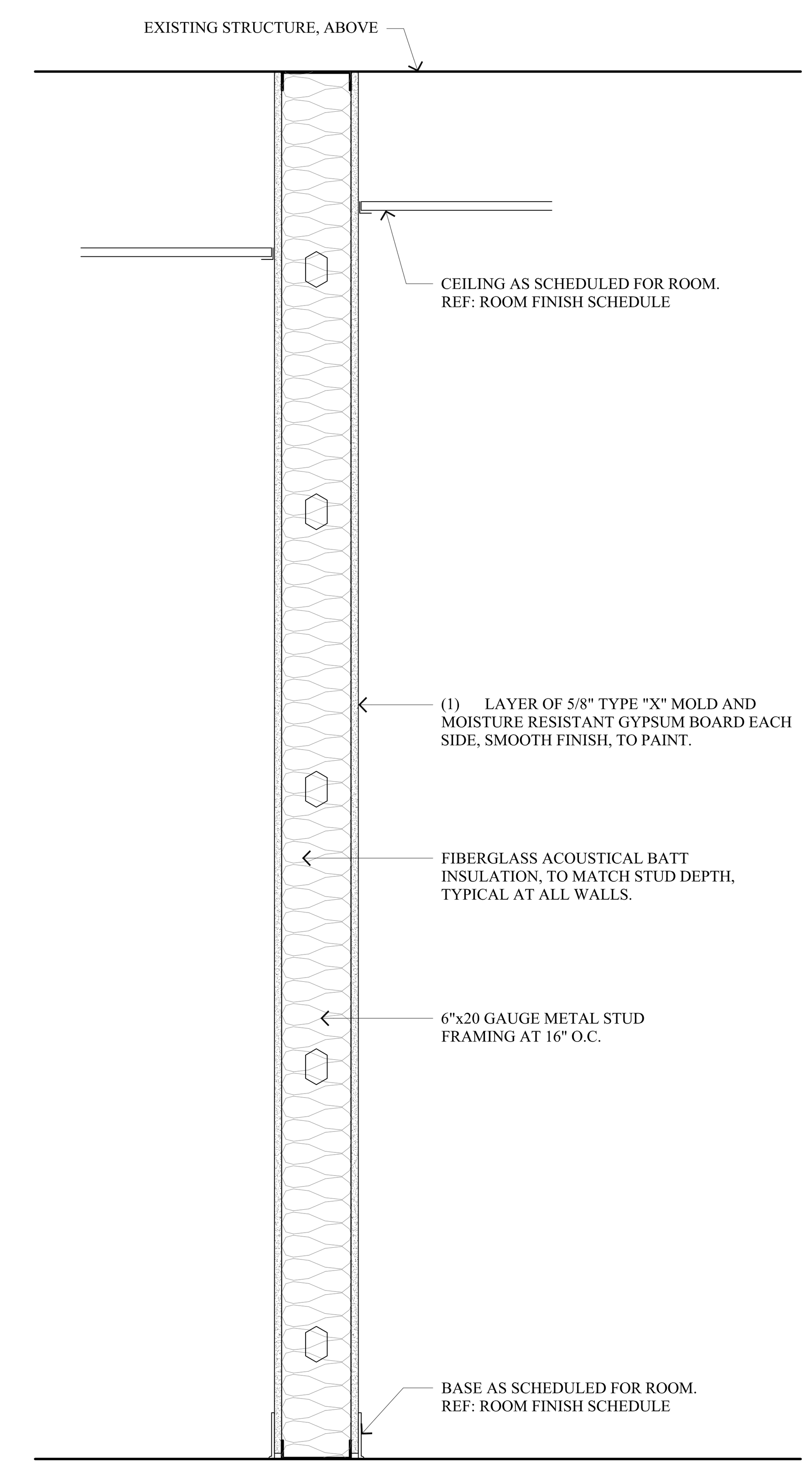
Ceiling Furr-down - Concession 110 & Flex Area 111 SCALE: 3/4" = 1'-0" (2)



Wall Section SCALE: 1" = 1'-0" (3)



Wall Section at Coiling Counter Door SCALE: 1" = 1'-0" (4)



Typ. Wall Section SCALE: 1" = 1'-0" (5)

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

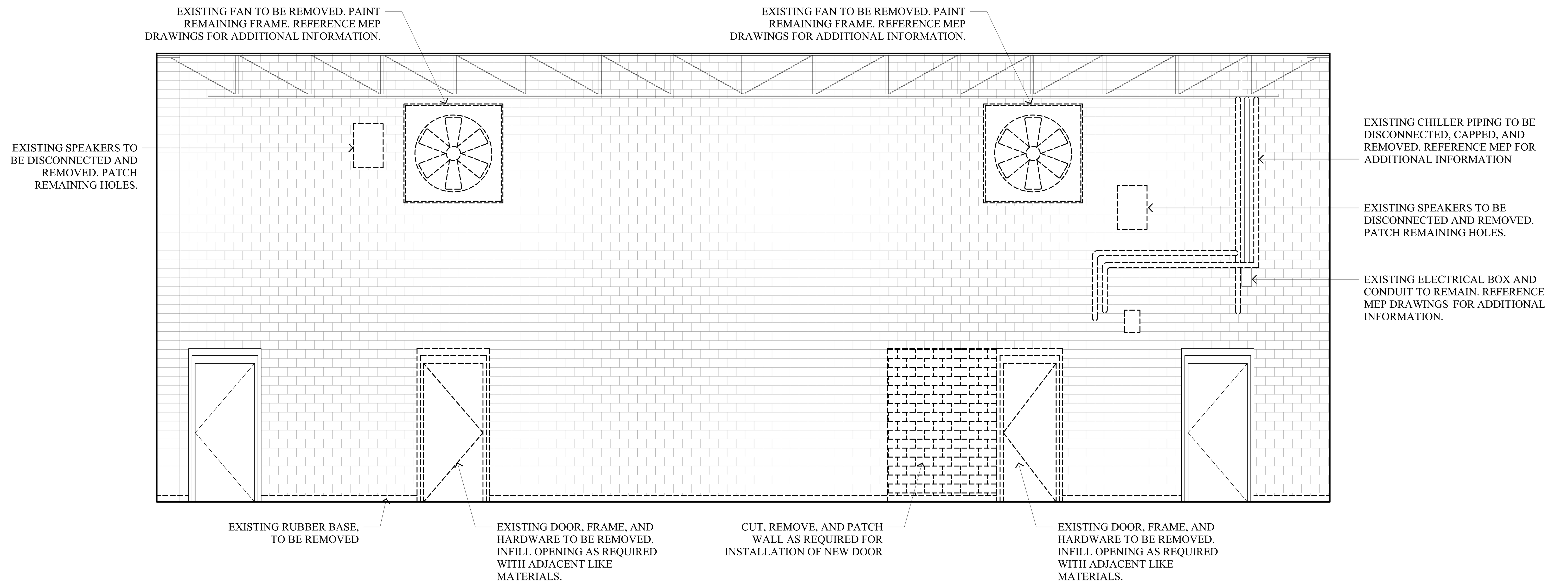
C.E.H. PROJECT NUMBER
2401



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A5.0

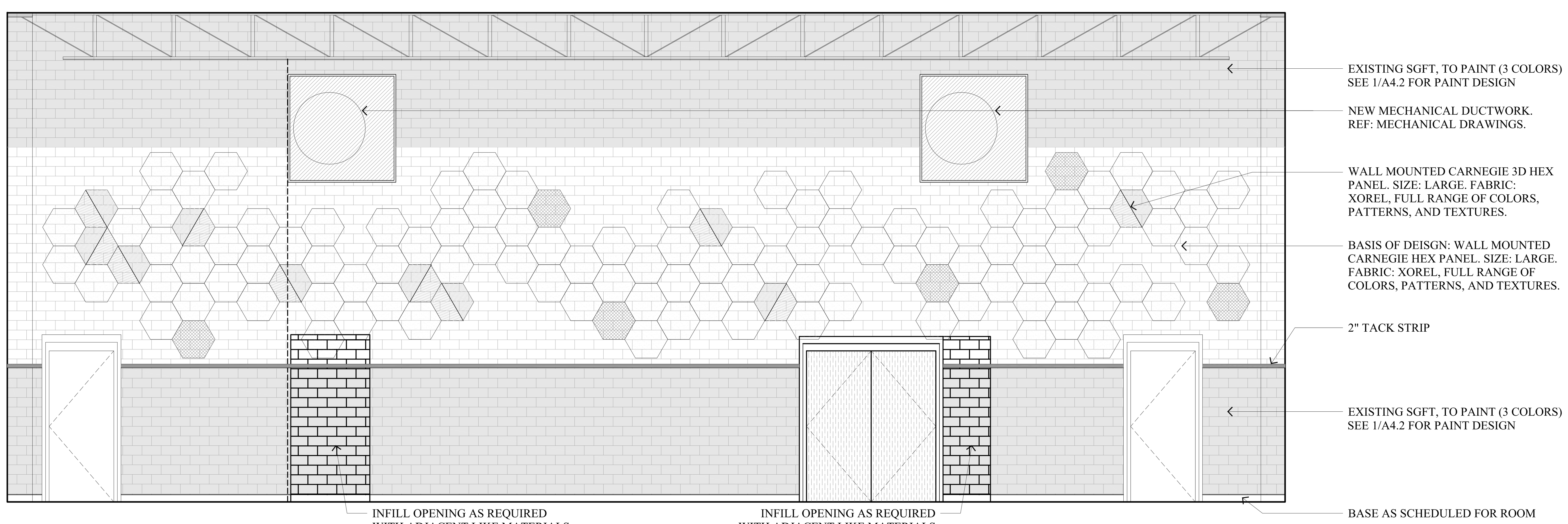
PRINT DATE
10/08/2026



EXISTING MISCELLANEOUS ITEMS ON WALL TO BE REMOVED. PATCH REMAINING HOLES.
EXISTING ELECTRICAL ITEMS TO BE DISCONNECTED, REMOVED, AND TERMINATED AT PANEL. REF: MEP DWGS
EXISTING SPECIAL SYSTEM ITEMS TO BE DISCONNECTED AND REMOVED. REF: MEP DWGS

Interior Elevation - Existing/ Demolition STEM Gym

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



Interior Elevation - Renovated STEM Gym

SCALE: 1/4" = 1'-0" (2)

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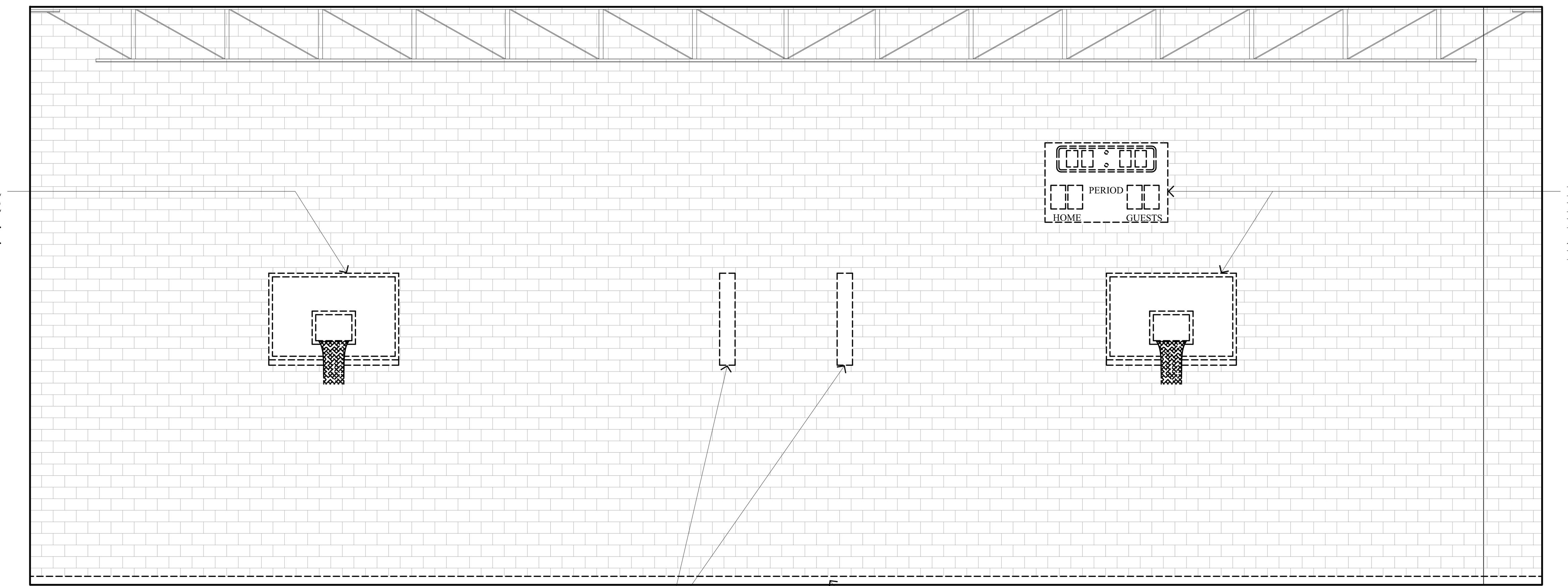
C.E.H. PROJECT NUMBER
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STEPHEN C. HOTARD REG. NO 5555 STATE OF LOUISIANA REGISTERED ARCHITECT

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A6.0

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Interior Elevation - Existing/ Demolition STEM Gym

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



Interior Elevation - Renovated STEM Gym

SCALE: 1/4" = 1'-0" (2)

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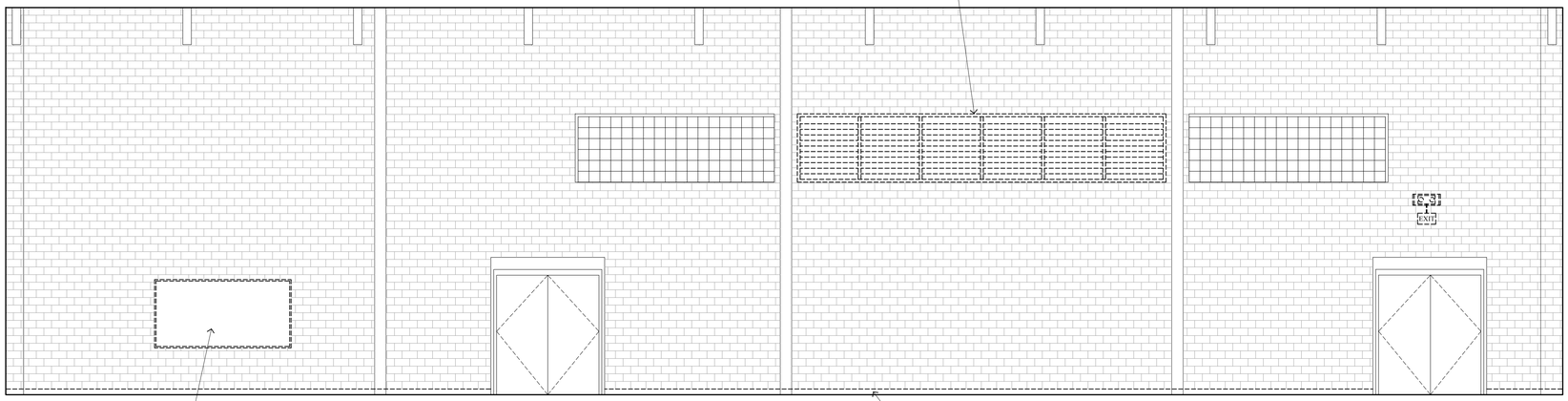
STEPHEN C. HOTARD REG. NO 5555 STATE OF LOUISIANA REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

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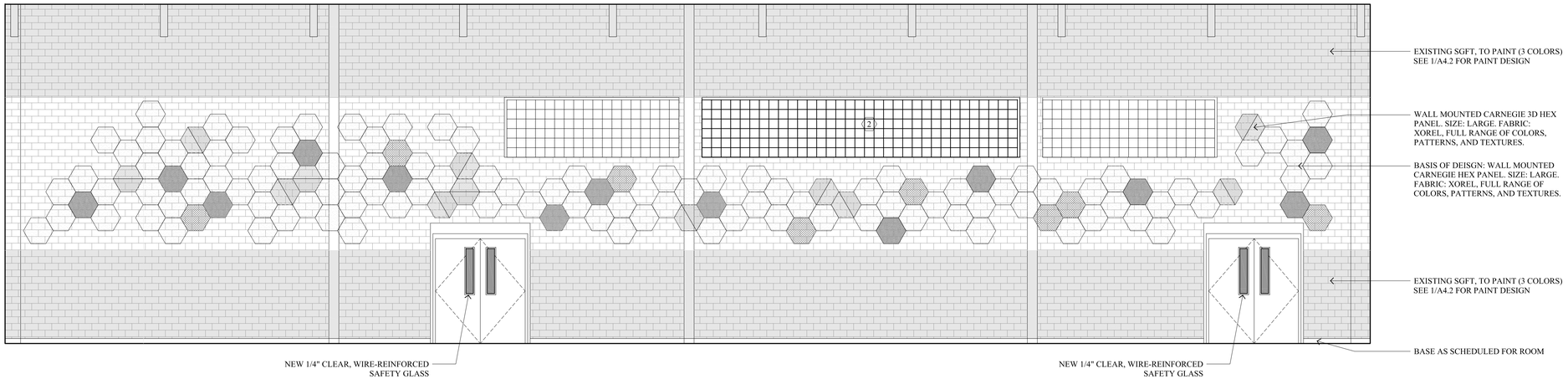
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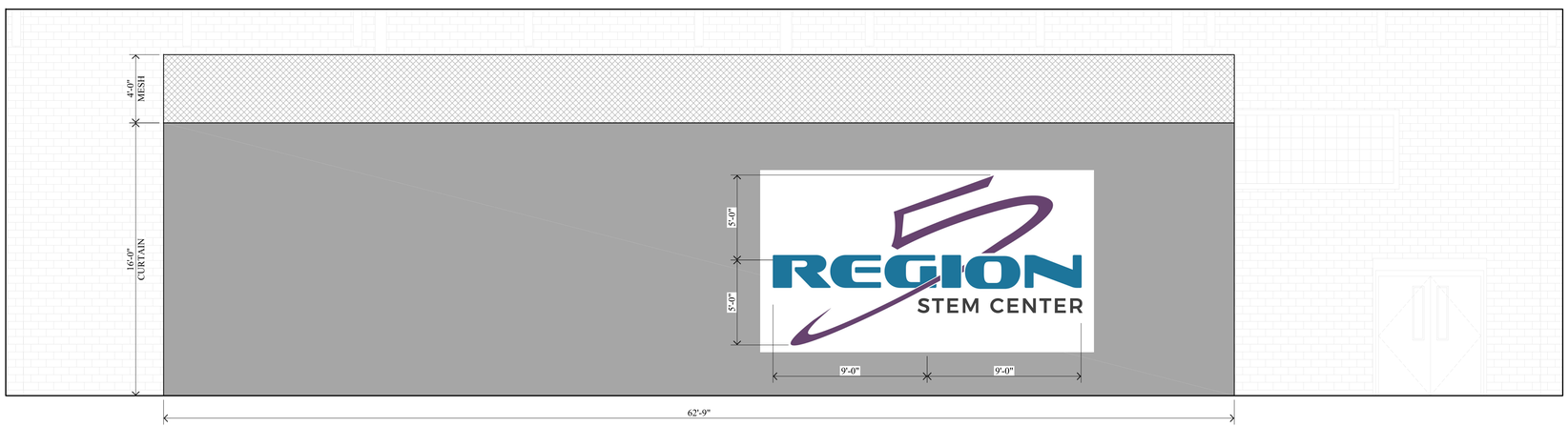
Interior Elevation - Existing/ Demolition STEM Gym

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



Interior Elevation - Renovated STEM Gym

SCALE: 1/4" = 1'-0" (2)



Interior Elevation - Renovated STEM Gym - Curtain Elevation

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

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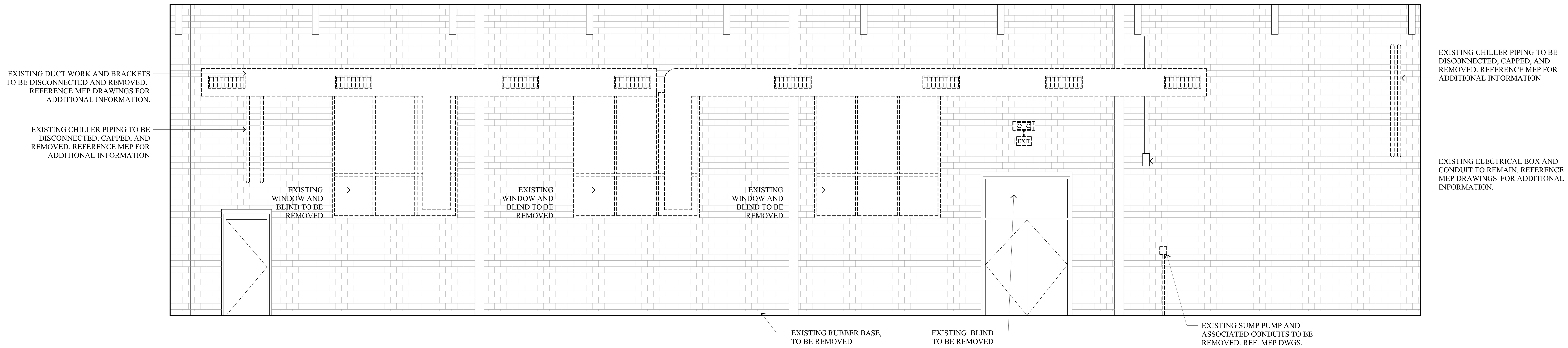
STEPHEN C. HOTARD REG. NO. 29126 STATE OF LOUISIANA REGISTERED ARCHITECT

CHAMPEAUX EVANS HOTARD, APAC

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A6.2

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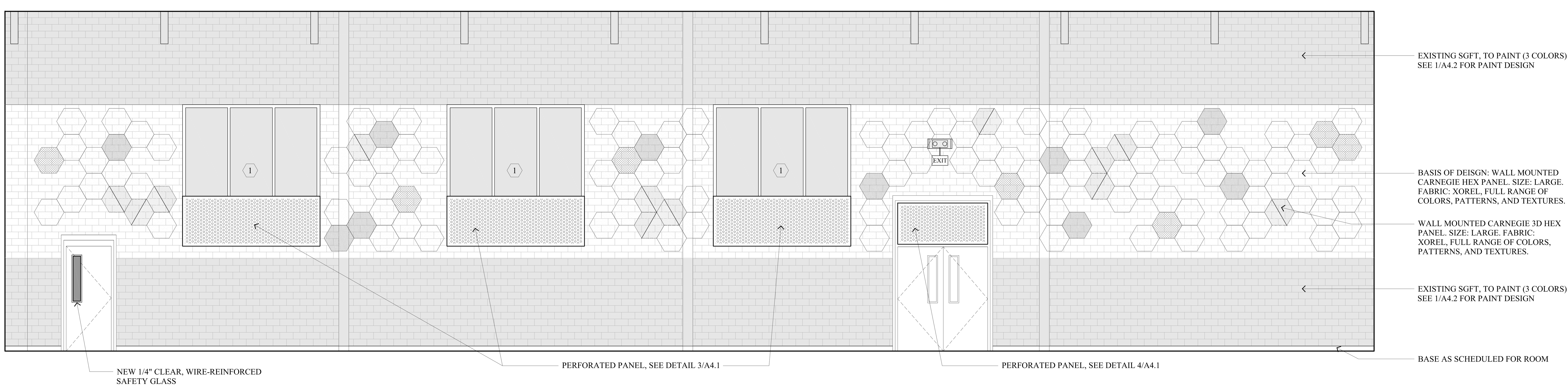


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Interior Elevation - Existing/ Demolition STEM Gym

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

1



Interior Elevation - Renovated STEM Gym

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

2

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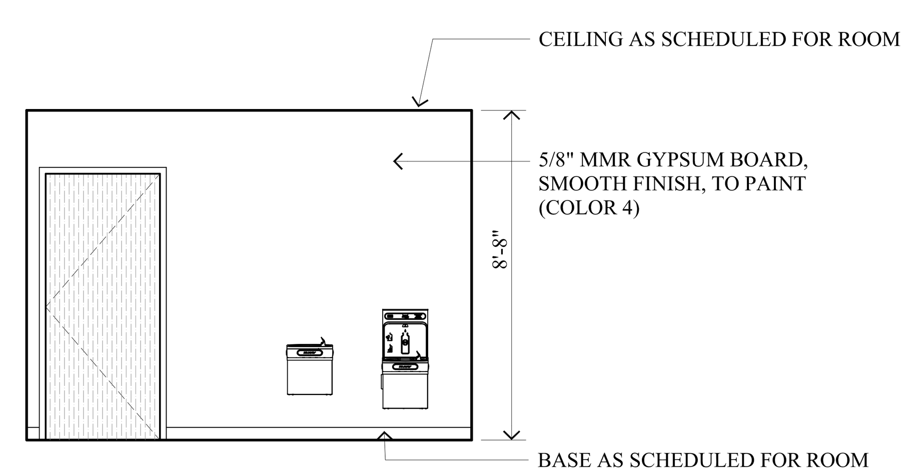
STEPHEN C. HOTARD
REG. NO 5555
STATE OF LOUISIANA
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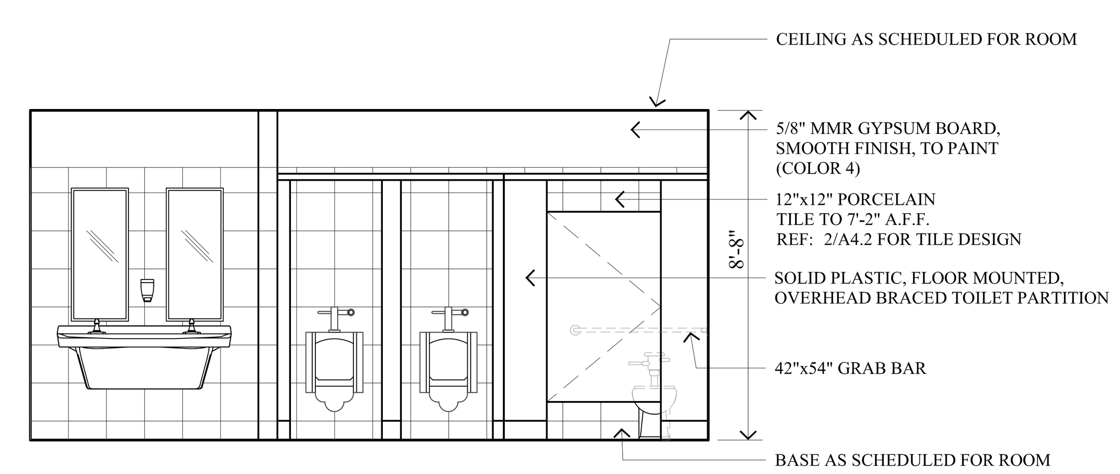
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A6.3

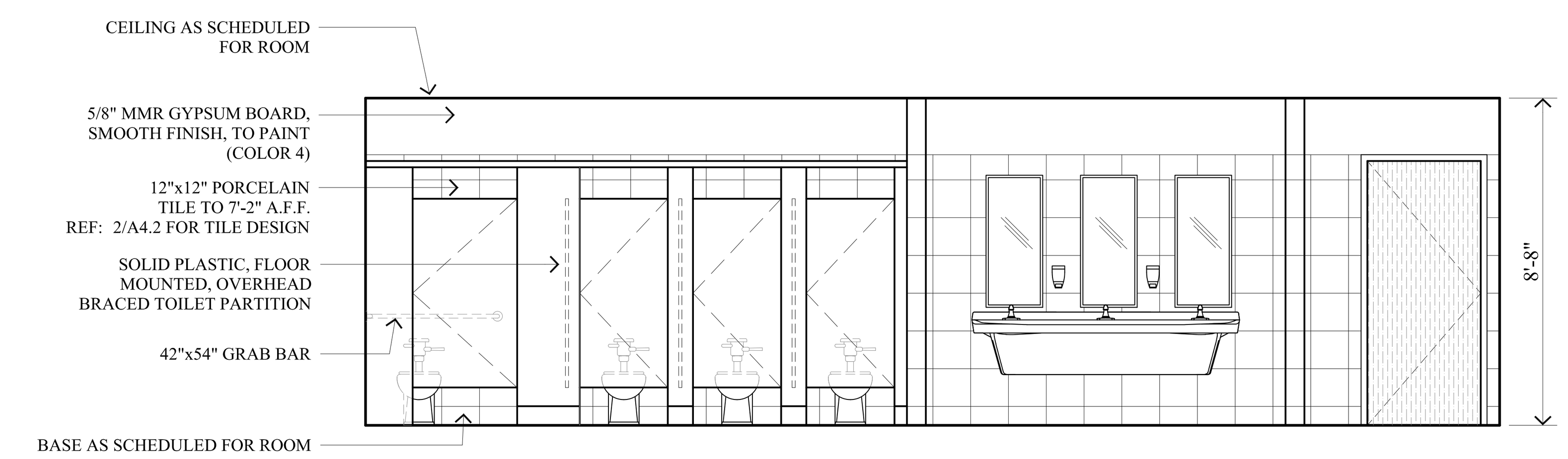
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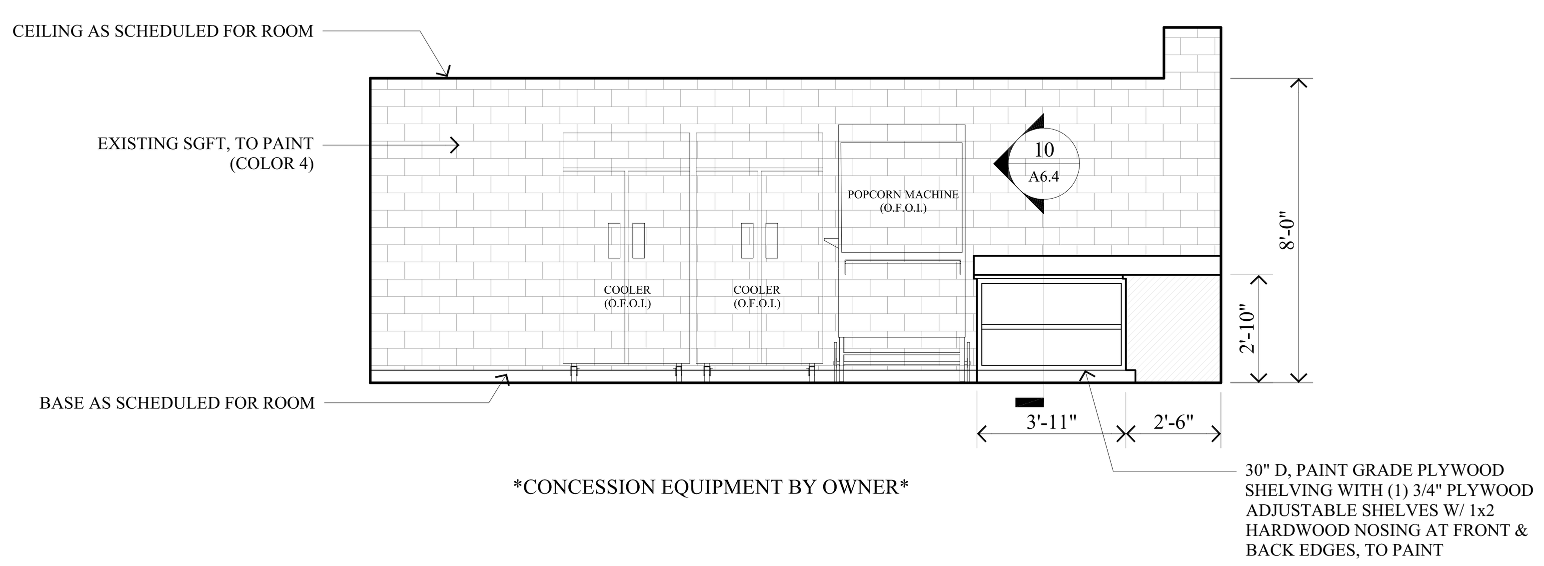
Int. Elev. - Vestibule 102 SCALE: 1/4" = 1'-0" 1



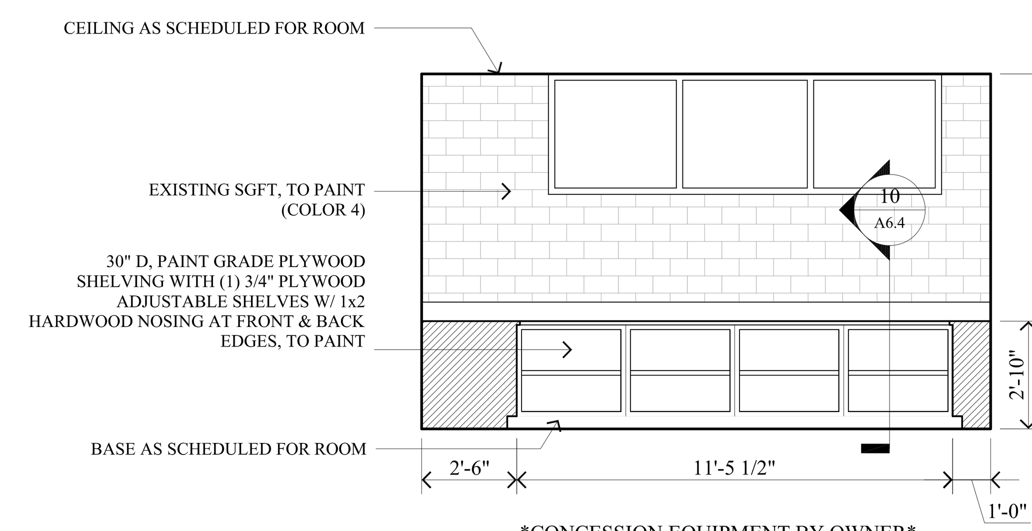
Int. Elev. - Men's Restroom 103 SCALE: 1/4" = 1'-0" 2



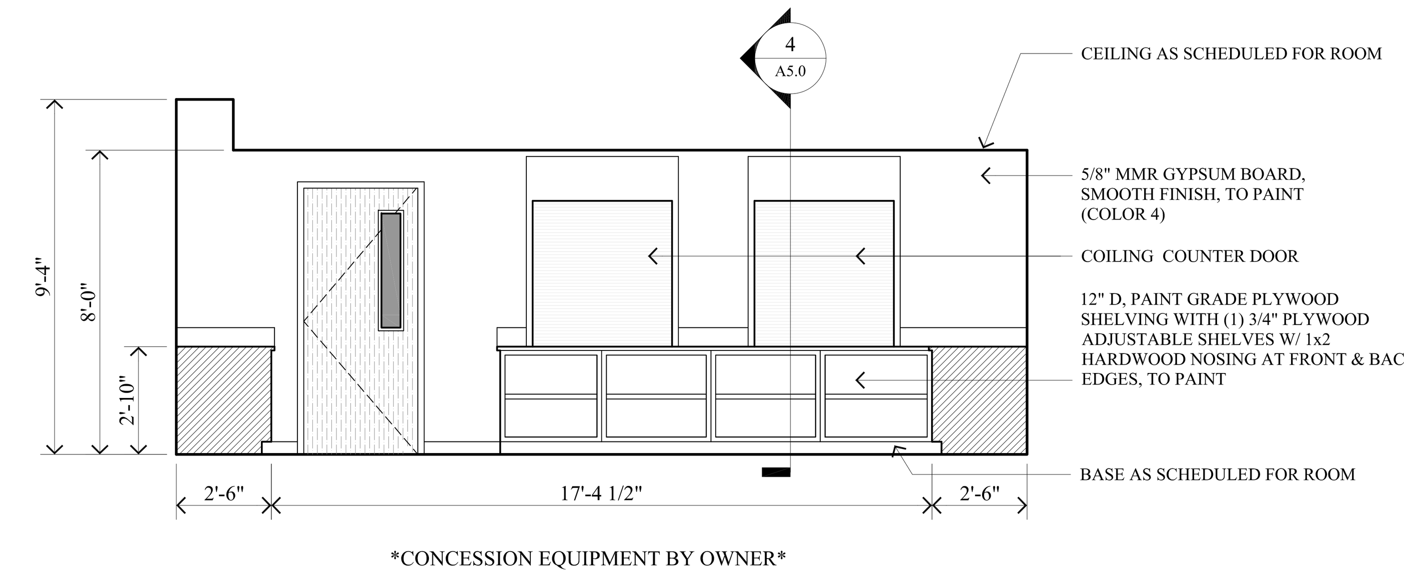
Int. Elev. - Women's Restroom 104 SCALE: 1/4" = 1'-0" 3



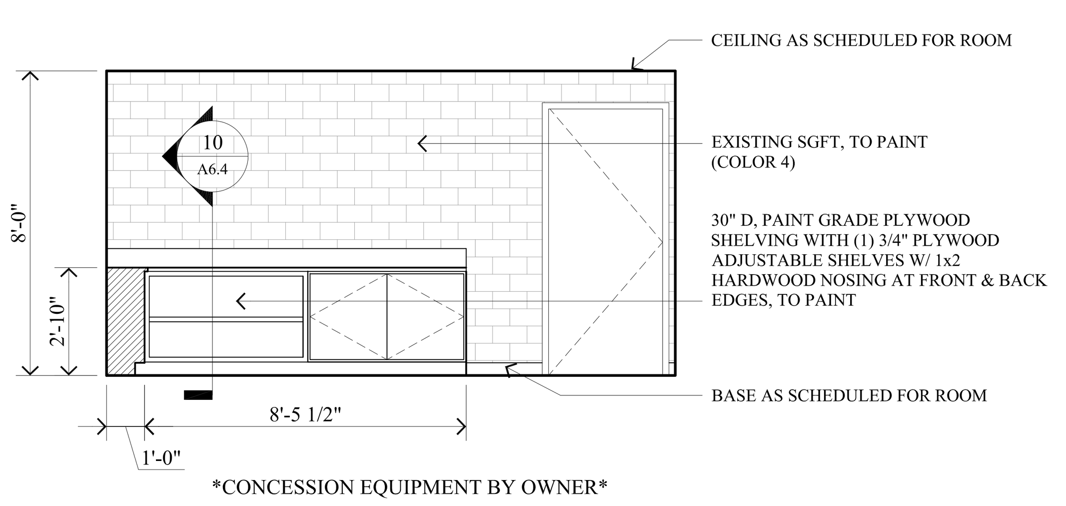
Int. Elev. - Concession 110 SCALE: 1/4" = 1'-0" 4



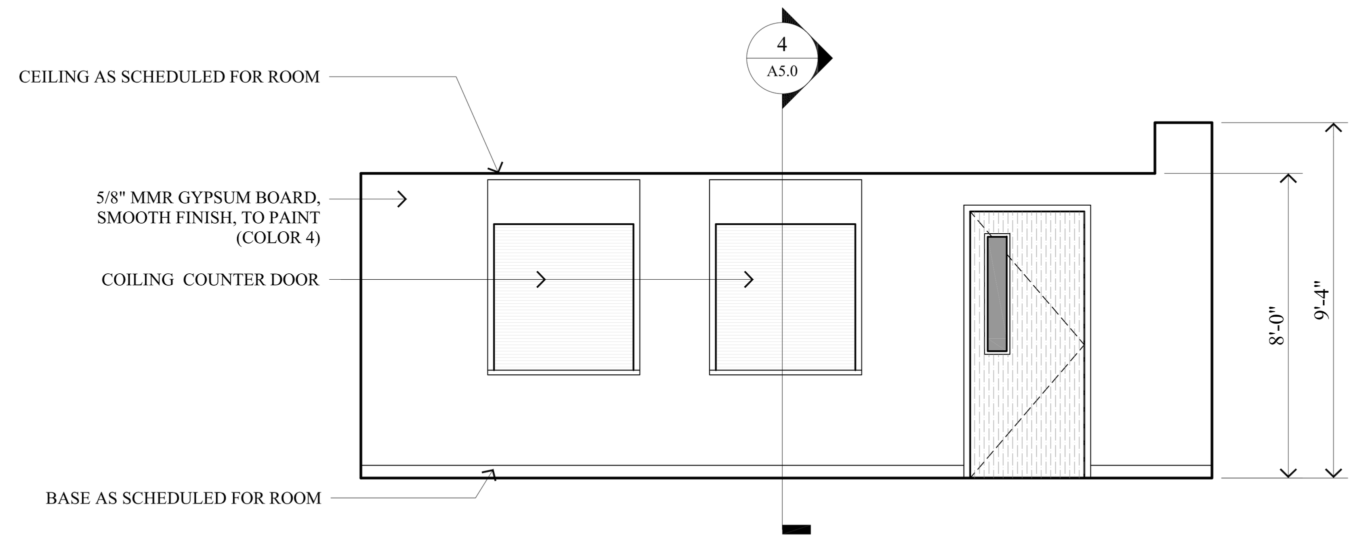
Int. Elev. - Concession 110 SCALE: 1/4" = 1'-0" 5



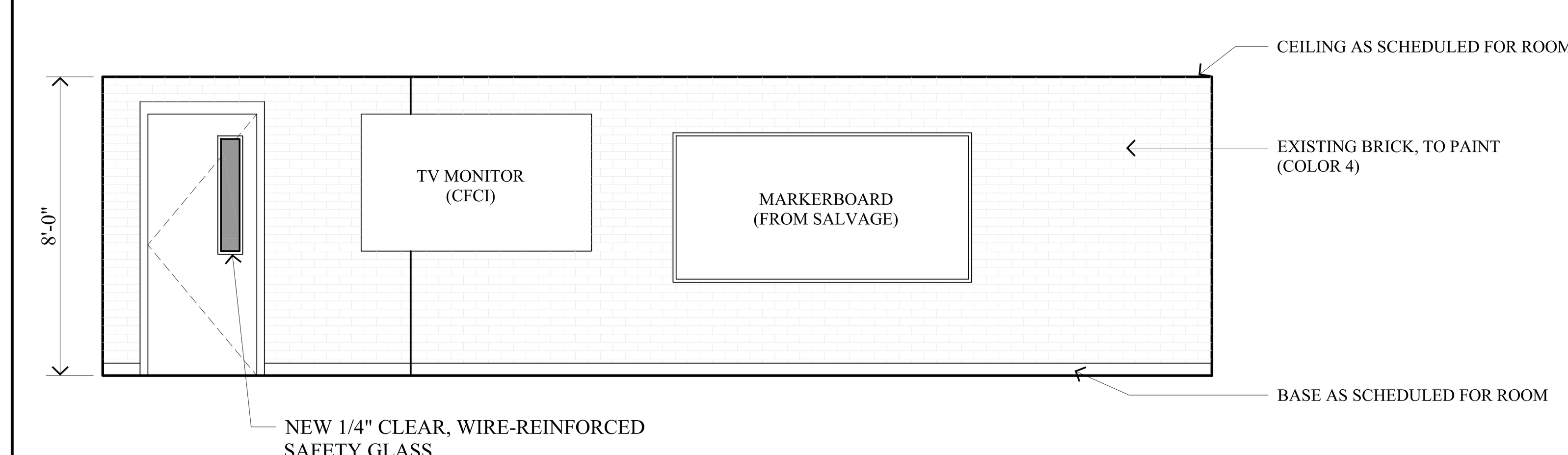
Int. Elev. - Concession 110 SCALE: 1/4" = 1'-0" 6



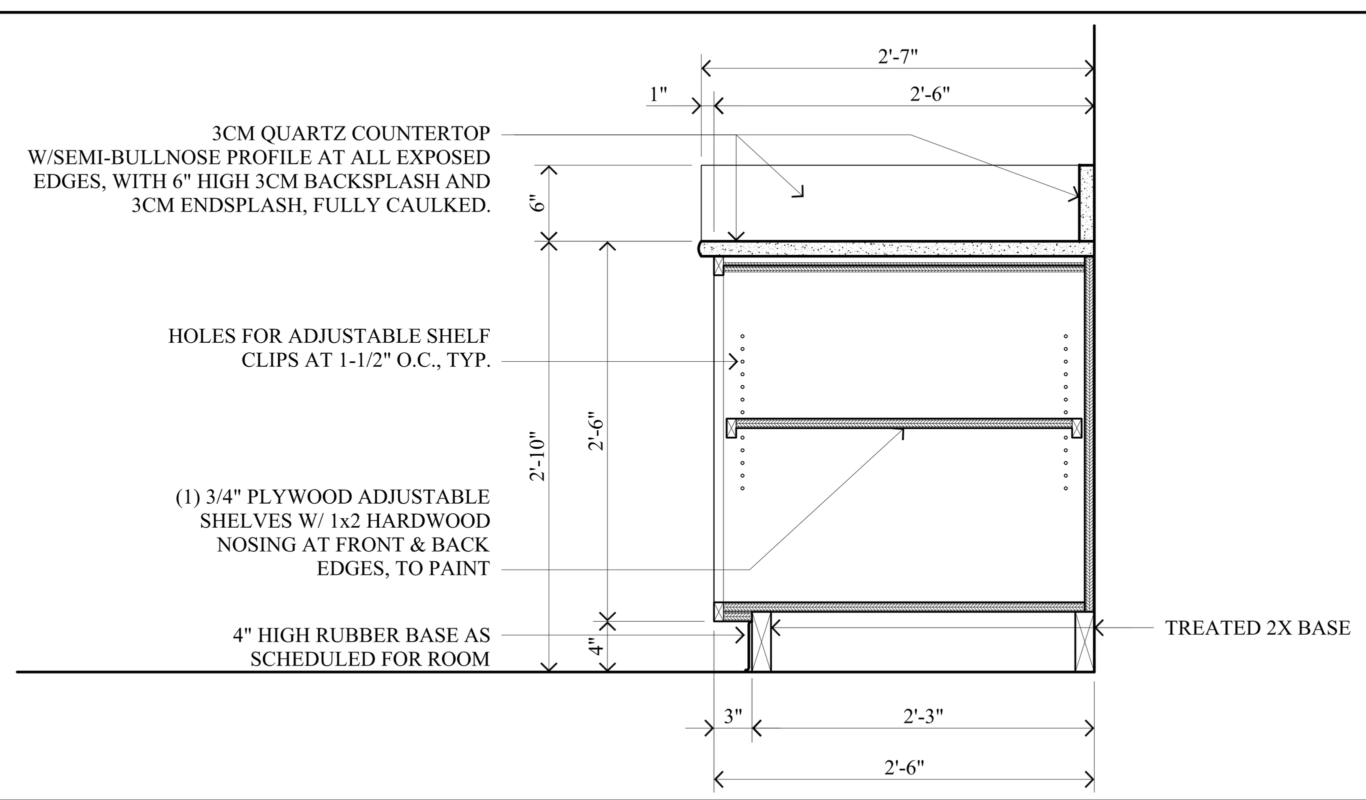
Int. Elev. - Concession 110 SCALE: 1/4" = 1'-0" 7



Int. Elev. - Flex Area 111 SCALE: 1/4" = 1'-0" 8



Int. Elev. - Flex Area 111 SCALE: 1/4" = 1'-0" 9



Cabinet Section SCALE: 1/4" = 1'-0" 10

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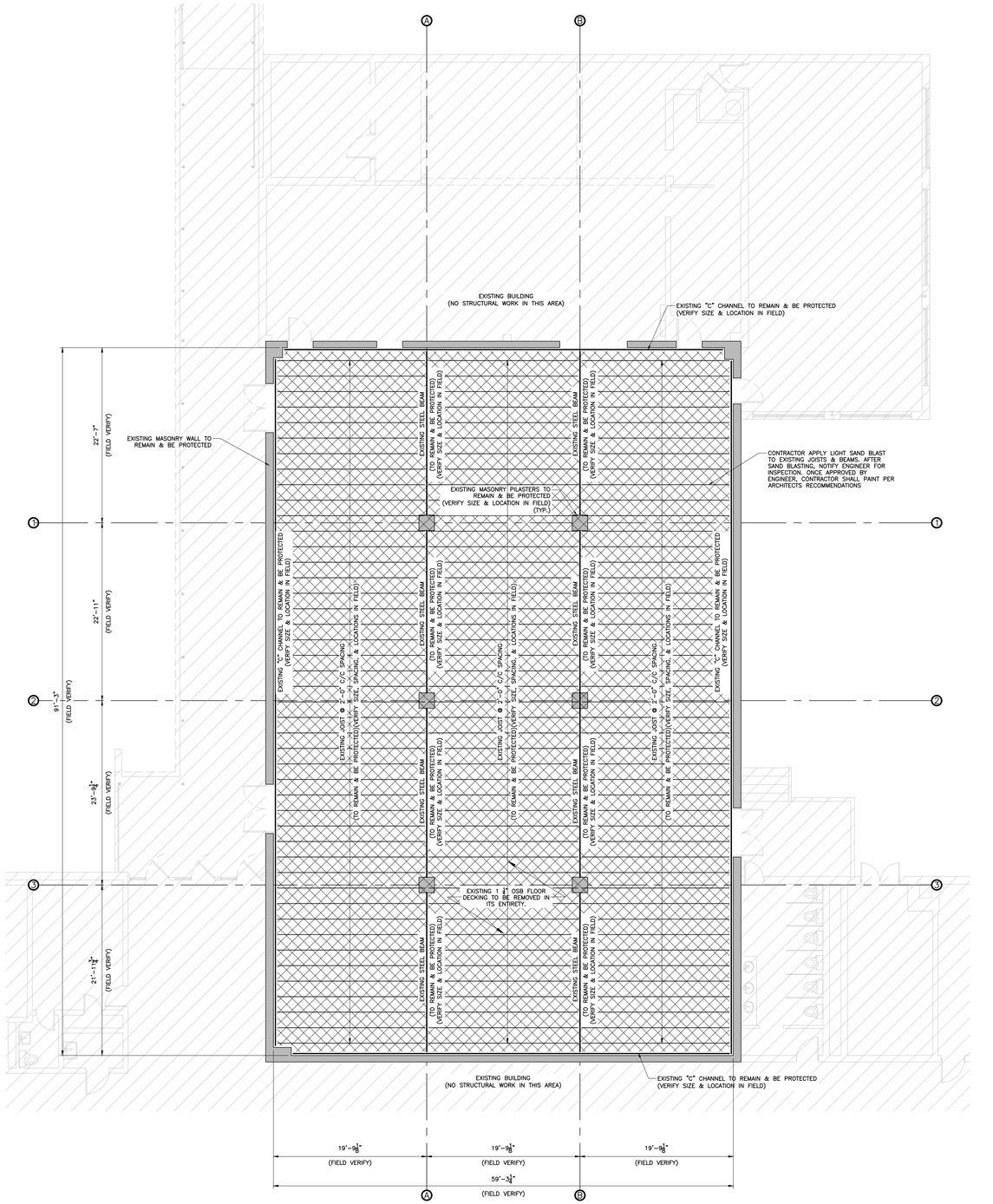
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A6.4

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LEGEND

- EXISTING STEEL BEAM TO REMAIN
- EXISTING FLOOR JOIST TO REMAIN
- EXISTING MASONRY WALL/PILASTER TO REMAIN
- EXISTING OSB FLOORING TO BE REMOVED IN ITS ENTIRETY



1 EXISTING / DEMOLITION FLOOR PLAN

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

NORTH

DESIGN LOADS

1. LIVE LOADS

FLOOR: 100 PSF
ROOF: 20 PSF

2. WIND

WIND SPEED: 131 MPH
BUILDING RISK CATEGORY: II
IMPORTANCE FACTOR: 1.0
EXPOSURE: C
ANALYSIS PROCEDURE: PER ASCE 7-16/IBC 2021

DEMOLITION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, PROVISION, AND ERECTION OF ANY TEMPORARY SHORING, BRACING, AND COVERAGE REQUIRED TO PROTECT ITEMS TO REMAIN DURING PERFORMANCE OF THIS CONTRACT.
2. REFER TO THE CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY FOR THE SCOPE OF DEMOLITION REQUIREMENTS, ESPECIALLY THOSE ITEMS WHICH ARE TO REMAIN IN SERVICE AND BE PROTECTED DURING PERFORMANCE OF THIS CONTRACT.

GENERAL STRUCTURAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS.
2. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021 EDITION AND APPLICABLE LOCAL CODES.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS.
4. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
5. UNLESS NOTED, ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
7. DO NOT SCALE DRAWINGS. USE ANNOTATED DIMENSIONS AS PROVIDED. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.

SUBGRADE PREPARATION AND STRUCTURAL FILL NOTES (STRUCTURAL ONLY)

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LA ONE CALL TO IDENTIFY ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO LOCATE ALL UTILITIES AND VERIFY NO CONFLICTS EXIST WITH ANY PROPOSED STORMWATER AND/OR UTILITY ROUTING PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. IF ANY CONFLICTS ARE IDENTIFIED THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. FOR AREAS IMMEDIATELY UNDER BUILDING PAD AND 5 FEET OUTSIDE OF BUILDING LINE, CONTRACTOR SHALL REMOVE ALL VEGETATION, TOPSOIL, ORGANIC MATTER AND EXISTING IMPROVEMENTS, INCLUDING FOUNDATIONS, GRAVEL, ASPHALT, AND CONCRETE PAVING, TO A MINIMUM OF 24 INCHES BELOW EXISTING GRADE. REMOVE ANY EXISTING FOUNDATIONS AND TREES, INCLUDING THE ROOT BALLS, IN THEIR ENTIRETY AND BACKFILL WITH STRUCTURAL FILL PER DIRECTIONS BELOW. THE CUT DEPTH SHALL BE A MINIMUM; ADDITIONAL CUT SHALL BE ALLOWED AS REQUIRED FOR DRAINAGE OF THE EXCAVATION. DEPTH OF EXCAVATION SHALL BE POSITIVELY IDENTIFIED AND DOCUMENTED BY TESTING AGENCY AND PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF STRUCTURAL FILL MATERIAL.
4. ANY SOILS REMOVED WITHOUT THE PROPER AUTHORIZATION FROM THE ARCHITECT/ENGINEER WILL BE FILLED WITH STRUCTURAL FILL AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
5. DISPOSE OF ALL EXISTING SOILS/VEGETATION PER OWNER'S DIRECTIVE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.
6. AFTER ALL MATERIALS HAVE BEEN REMOVED TO THE PROPER SUBGRADE ELEVATION, THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK. ANY SUBGRADE FAILURES, "SOFT SPOTS", SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. ENGINEER TO BE ADVISED A MINIMUM OF 24 HOURS PRIOR TO PERFORMANCE OF PROOFROLL AND PROOFROLL TO BE OBSERVED BY TESTING AGENCY.

   NO "EXTRAS" WILL BE AWARDED FOR EFFORTS NECESSARY TO REPAIR AREAS THAT FAIL PROOF ROLL AS A RESULT OF DEGRADATION BY EXPOSURE TO RAIN AND EXCESSIVE CONSTRUCTION TRAFFIC. THIS DETERMINATION WILL BE MADE SOLELY BY THE ARCHITECT.
7. ALL STRUCTURAL FILL MATERIAL SHALL BE INSTALLED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AT +/-2% OF THE OPTIMUM MOISTURE CONTENT (ASTM D 698). STRUCTURAL FILL MATERIAL SHALL BE A LIME-TREATED (6% BY VOLUME) SILTY OR SANDY CLAY WITH A LIQUID LIMIT BETWEEN 30-42 AND A PLASTICITY INDEX (P.I.) BETWEEN 12 AND 22. PROPERTIES OF FILL MATERIAL ARE TO BE VERIFIED BY A TESTING AGENCY PRIOR TO INSTALLATION. PROPOSED LIME MATERIAL AND APPLICATION RATE TO BE SUBMITTED FOR REVIEW BY ENGINEER PRIOR TO MIXING. LIME TO BE PIT MIXED - NO SITE MIXING PERMITTED.
8. ALL WASHED SAND FILL MATERIAL SHALL BE INSTALLED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AT +/-2% OF THE OPTIMUM MOISTURE CONTENT (ASTM D 698).
9. COMPACTION OF EACH LIFT SHALL BE VERIFIED BY LAB TEST PRIOR TO INSTALLING NEXT LIFT. A MINIMUM TESTING FREQUENCY OF ONE (1) TEST PER 2,500 SQUARE FEET, BUT NO LESS THAN 3 TESTS, PER LIFT SHALL BE PERFORMED.OWNER SHALL EMPLOY A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO VERIFY PROPERTIES OF THE STRUCTURAL FILL MATERIALS AS WELL AS IN SITU COMPACTION OF FILL MATERIALS.

   REFER TO SPECIFICATION SECTION 31200 "EARTH MOVING" FOR ADDITIONAL MATERIAL AND TESTING REQUIREMENTS
10. CONTRACTOR IS TO MAINTAIN DRAINAGE PATHS TO SHED RUNOFF AWAY FROM ALL STRUCTURAL FILL AREAS UNTIL THEY ARE COMPLETED.
11. CONTRACTOR SHALL KEEP THE EXCAVATED AREAS, AND SURFACES OF IMPORTED FILL, FREE FROM STANDING WATER AT ALL TIME. SHOULD THIS EFFORT INCLUDE ADDITIONAL EXCAVATION, GRADING, PUMPING OF WATER, ETC., THIS WILL NOT BE CONSIDERED AN "EXTRA" AND NO CONTRACT MODIFICATIONS WILL BE AWARDED.

GENERAL FOUNDATION NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB FINISHES, LEVEL LANDINGS, LEDGE LOCATIONS, DIMENSIONS AND DETAILS. VERIFY SLAB RECESSES, SLOPES AND LOCATIONS WITH ARCHITECTURAL PLANS.
2. REFER TO ARCHITECTURAL AND/OR M.E.P. DRAWINGS FOR ANY REQUIRED FINISHES, DEPRESSION OR ELEVATIONS IN SLABS.
3. REFER TO ARCHITECTURAL AND/OR M/E/P DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF ALL BLOCKOUTS, SLAB DEPRESSIONS, AND OBJECTS TO BE ENCASED/ EMBEDDED IN CONCRETE.
4. CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.
5. FINISH FLOOR ELEV. CALLED 0'-0" (VERIFY M.S.L. ELEVATION W/ CIVIL DRAWINGS).
6. CONCRETE SLAB CONTRACTION JOINTS SHALL BE SAWCUT. REFER TO TYPICAL DETAIL ON S-103. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS OTHERWISE NOTED, SHALL BE 15'-0" (MAX.) IN EACH DIRECTION. CONTRACTOR MUST SUBMIT A CONTROL JOINT LAYOUT FOR APPROVAL (7) WORKING DAYS PRIOR TO POURING SLAB. RE: SPEC. SECTION "033000- CAST-IN-PLACE CONCRETE".
7. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTRACTION JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR AND ALSO WHERE INDICATED ON THE SLAB PLAN. SLAB CONSTRUCTION JOINTS SHALL BE OF KEYED TYPE.

REINFORCEMENT STEEL NOTES

1. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITIONS.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60 (UNLESS NOTED).
3. ALL SPLICES, INCLUDING SPLICES FROM BARS LABELED CONTINUOUS, SHALL BE 48 BAR DIAMETERS.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 (SMOOTH) OR ASTM A497 (DEFORMED) AND BE LAPPED TWO FULL PANELS AND TIED ON EACH SIDE.
5. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND THROUGH INTERSECTIONS BY MEANS OF CORNER BARS AND/OR SPLICE BARS.
6. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).
7. CONCRETE REINFORCING STEEL SHALL BE SUPPORTED AT SPECIFIED POSITION BY CONCRETE BLOCKS, CHAIRS, OR OTHER PRODUCTS MANUFACTURED SPECIFICALLY FOR THAT PURPOSE. REINFORCING SUPPORTS SHALL BE PLACED NOT MORE THAN 4'-0" ON CENTER.

CONCRETE NOTES

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI 301 (LATEST EDITION).
2. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AT ALL AREAS.
3. UNLESS OTHERWISE NOTED, CONCRETE COVER FOR REINFORCING STEEL SHALL BE 3".
4. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
5. REFER TO SPECIFICATION SECTION 033000 "CAST-IN-PLACE CONCRETE" FOR FURTHER REQUIREMENTS.

STRUCTURAL STEEL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION WHICH INCLUDES THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE, AND THE AWS STRUCTURAL WELDING CODE (LATEST EDITIONS). SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
2. ALL HOT ROLLED W-SHAPES AND CHANNELS SHALL MEET ASTM A992 SPECIFICATIONS (50 KSI YIELD). ALL OTHER HOT ROLLED SHAPES (L'S, Z'S, ETC.) SHALL MEET ASTM A36 SPECIFICATIONS (36 KSI YIELD) EXCEPT PLATES SHALL BE 50 KSI YIELD WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
3. ALL STRUCTURAL TUBING SHALL MEET ASTM A500 GRADE C SPECIFICATIONS (50 KSI YIELD).
4. ALL STRUCTURAL STEEL SHALL RECEIVE A SHOP-APPLIED COAT OF RUST INHIBITIVE PRIMER (UNLESS NOTED OTHERWISE), REFER TO SPECIFICATIONS FOR REQUIREMENTS.
5. ALL EXTERIOR STRUCTURAL STEEL, INCLUDING COLD-ROLLED SHAPES (PURLINS, GIRTS, ETC.) SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. THIS INCLUDES BUT IS NOT LIMITED TO THE BUILDING CANOPIES, BALCONIES, ETC. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL FINISH REQUIREMENTS.
6. ALL BOLTS USED TO CONNECT STRUCTURAL MEMBERS SHALL BE 3/4"ø OR 1"ø ASTM F3125 GRADE A325 (U.N.O.), REFER TO SPECIFICATIONS FOR NUTS AND WASHERS. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 (GRADE 55), REFER TO DETAILS FOR DIAMETER AND LENGTH.
7. FOR ALL CONNECTIONS NOT SHOWN, CONNECTIONS SHALL BE DESIGNED FOR AN END REACTION OF 1/2 OF TOTAL ALLOWABLE UNIFORM LOAD FOR MEMBER SIZE AND SPAN SHOWN IN TABLES IN THE AISC "MANUAL OF STEEL CONSTRUCTION" (LATEST EDITION). CONNECTIONS INDICATED AS "MOMENT" CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE FULL PLASTIC MOMENT.
8. FOR ALL BEAM CONNECTIONS NOT DETAILED USE CLIP ANGLES WITH 5/16" MINIMUM THICKNESS WITH 3/4"ø MINIMUM A325 BOLTS AT EACH SIDE OF BEAM WEB. PROVIDE MAXIMUM ROW OF BOLTS USING STANDARD GAUGES PER BEAM DEPTH.
9. REFER TO STRUCTURAL STEEL SPECIFICATIONS FOR REQUIRED FRAMING AT ROOF PENETRATIONS.
10. VERIFY BOS/TOS ELEVATIONS AND CLEAR DIMENSIONS OF MEMBERS AT ROUGH OPENINGS WITH ARCHITECTURAL DRAWINGS.
11. ALL STIFFENER P'S SHALL BE A MINIMUM 3/8" THICKNESS U.N.O.
12. WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN.
13. ALL EXPOSED WELDS TO BE GROUND SMOOTH TO RECEIVE PAINT OR GALVANIZING PER ARCHITECT'S FINISHES. ALL FIELD WELDS SHALL BE GROUND SMOOTH AND GALVANIZING AND/OR PRIMER SHALL BE REPAIRED PER SPECS.
14. MINIMUM FILLET WELD SIZE SHALL BE 1/4" U.N.O.

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STEM Gymnasium Improvements at the Region 5 STEM Center

For The Calcasieu Parish School Board

1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

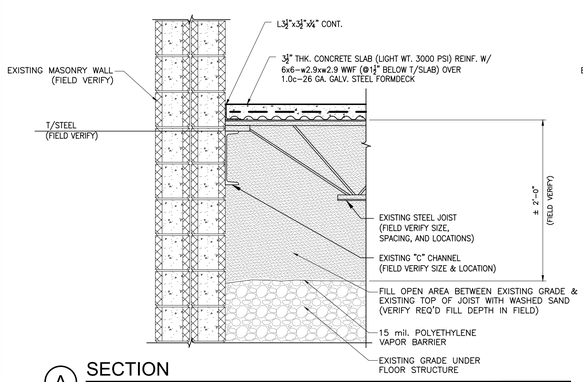
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JASON D. HUDSON
License No. 39151
PROFESSIONAL ENGINEER
10/07/2026

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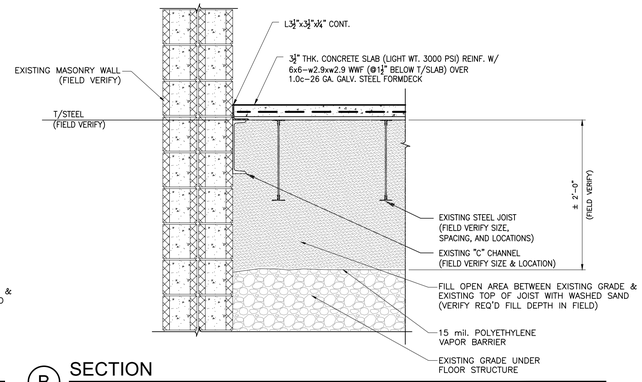
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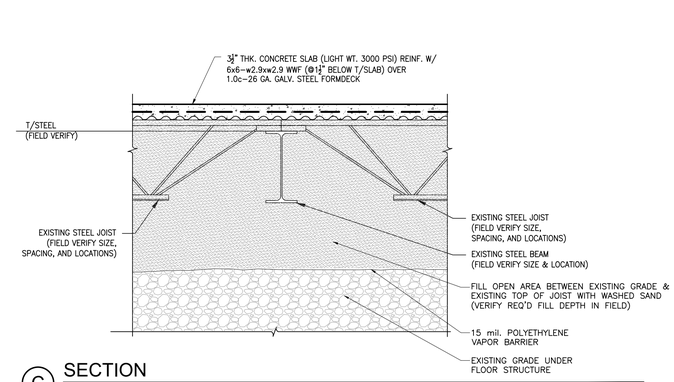
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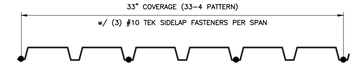
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SCALE: 3/4" = 1'-0"



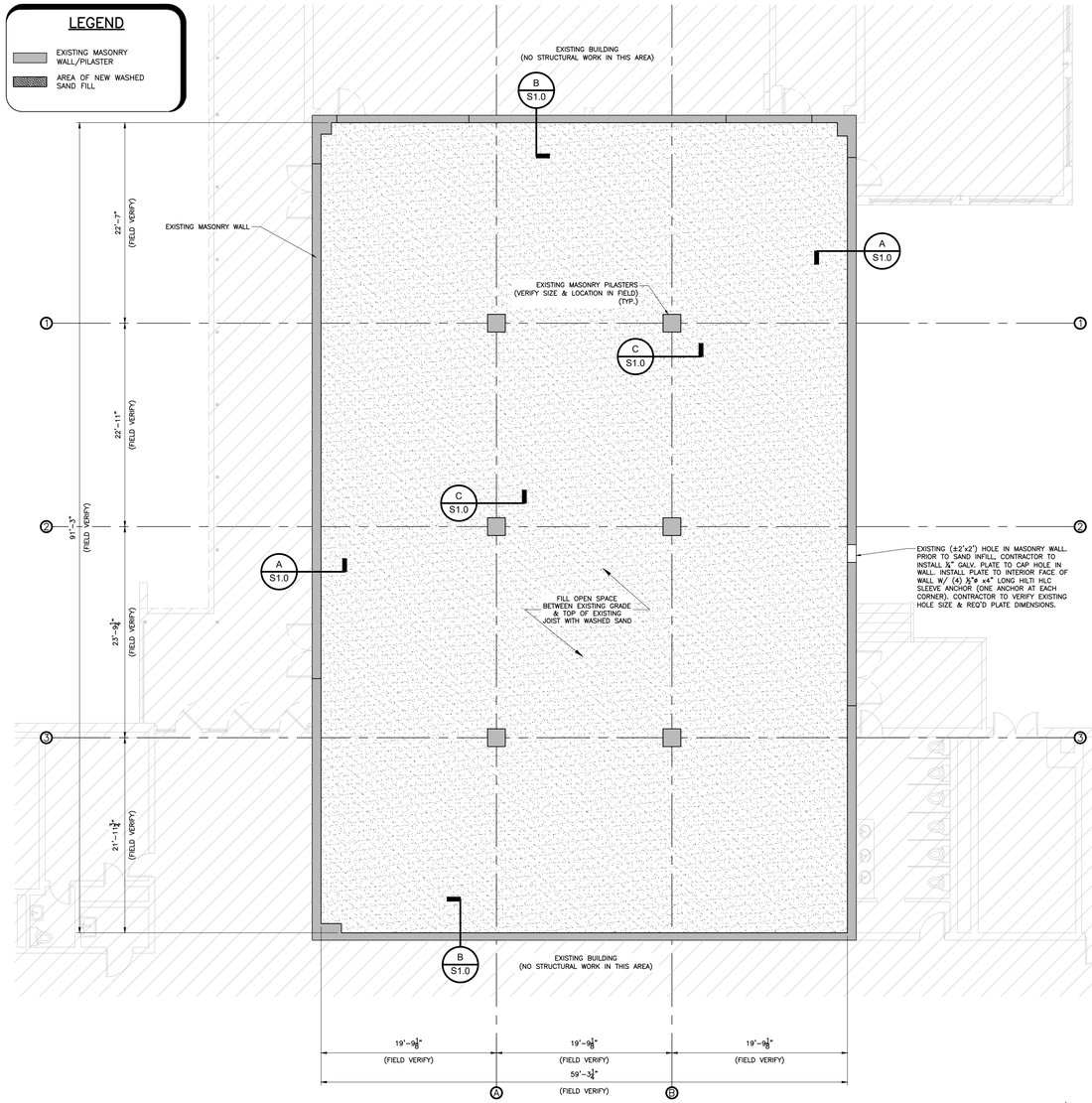
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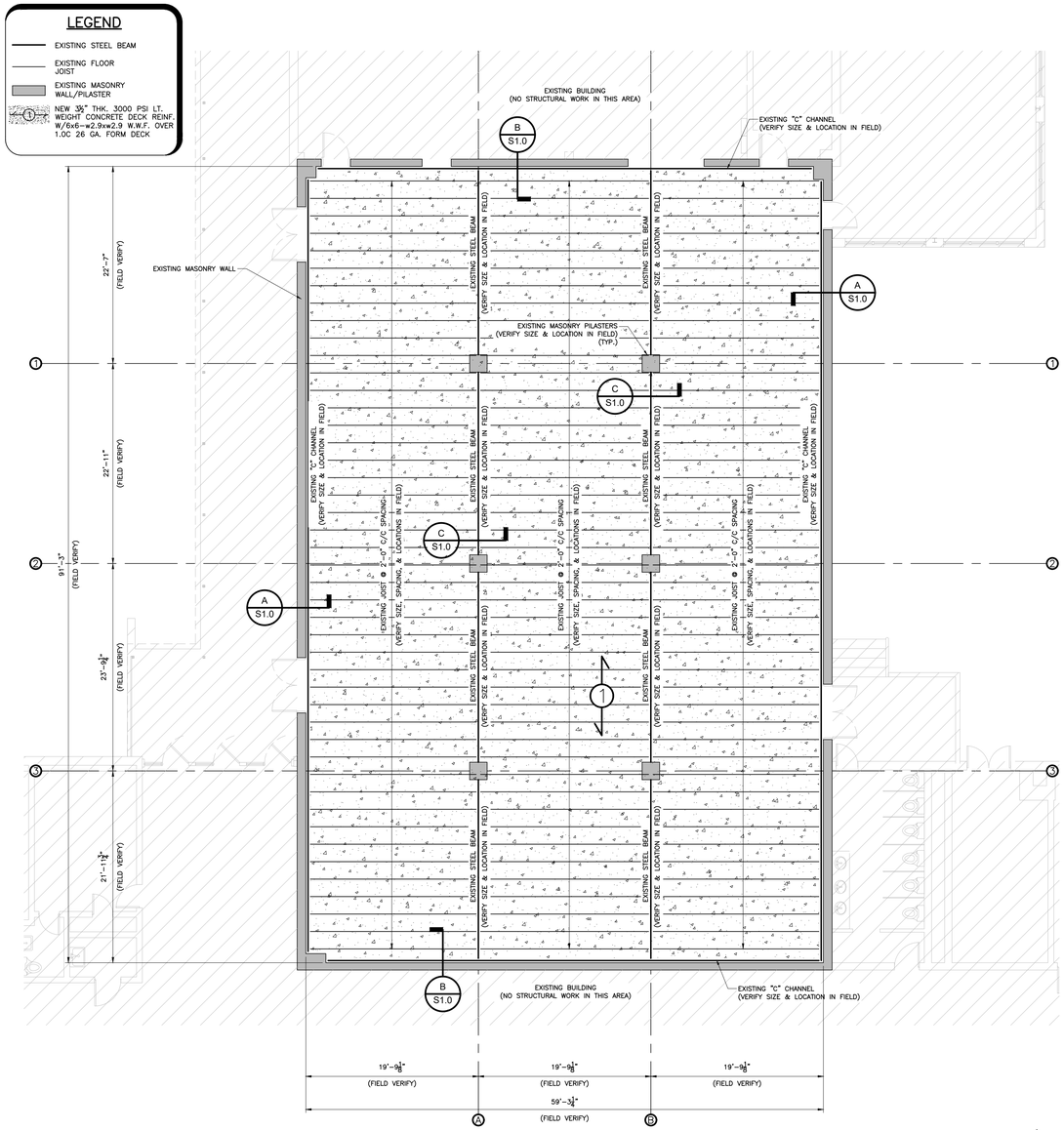
C SECTION
SCALE: 3/4" = 1'-0"



1 FLOOR DECK FASTENER LAYOUT
SCALE: NTS



2 BASE LEVEL SAND FILL PLAN
SCALE: 1/8" = 1'-0"



3 FIRST FLOOR CONCRETE SLAB PLAN
SCALE: 1/8" = 1'-0"

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For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

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JASON DUHON
LICENSE NO. 38051
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10/07/2026

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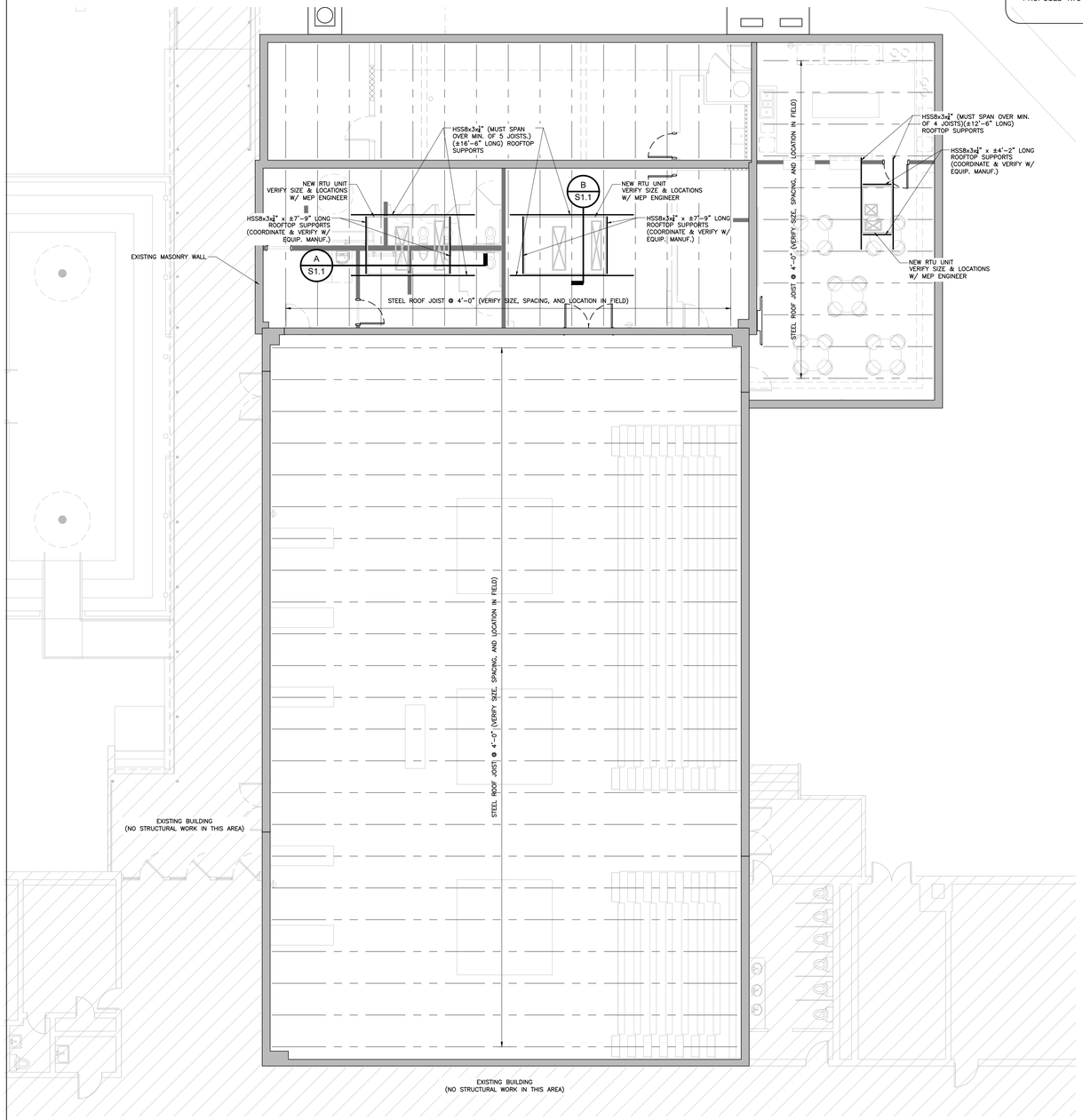
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LEGEND

- NEW HSS BEAM
- EXISTING FLOOR JOIST
- EXISTING MASONRY WALL/PILASTER

NOTE:

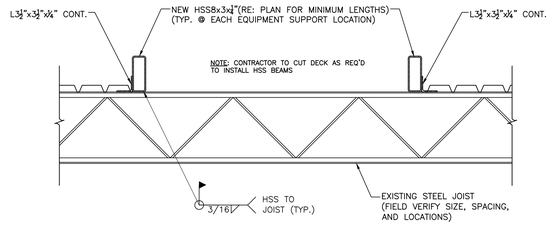
1. CONTRACTOR TO NOTIFY STRUCTURAL ENGINEER AFTER EXISTING STRUCTURE HAS BEEN EXPOSED FOR INSPECTION AND CONFIRMATION OF PROPOSED RTU SUPPORT STRUCTURE DESIGN.



1 NEW RTU SUPPORT FRAMING PLAN

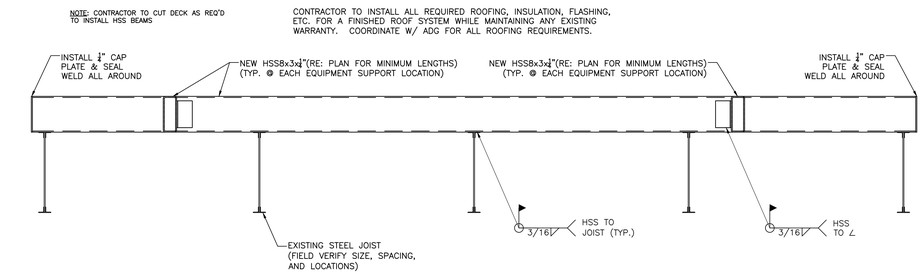
SCALE: 1/8" = 1'-0"

NORTH



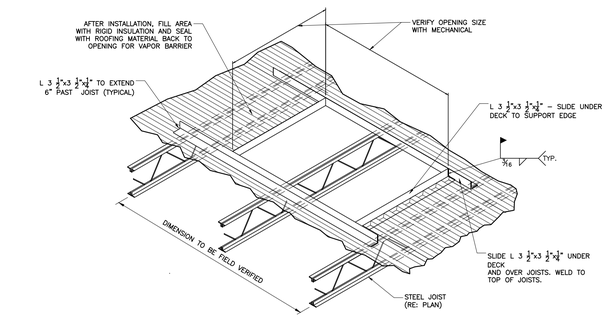
A SECTION

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



B SECTION

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



2 ROOF DECK OPENING DETAIL (TYP.)

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

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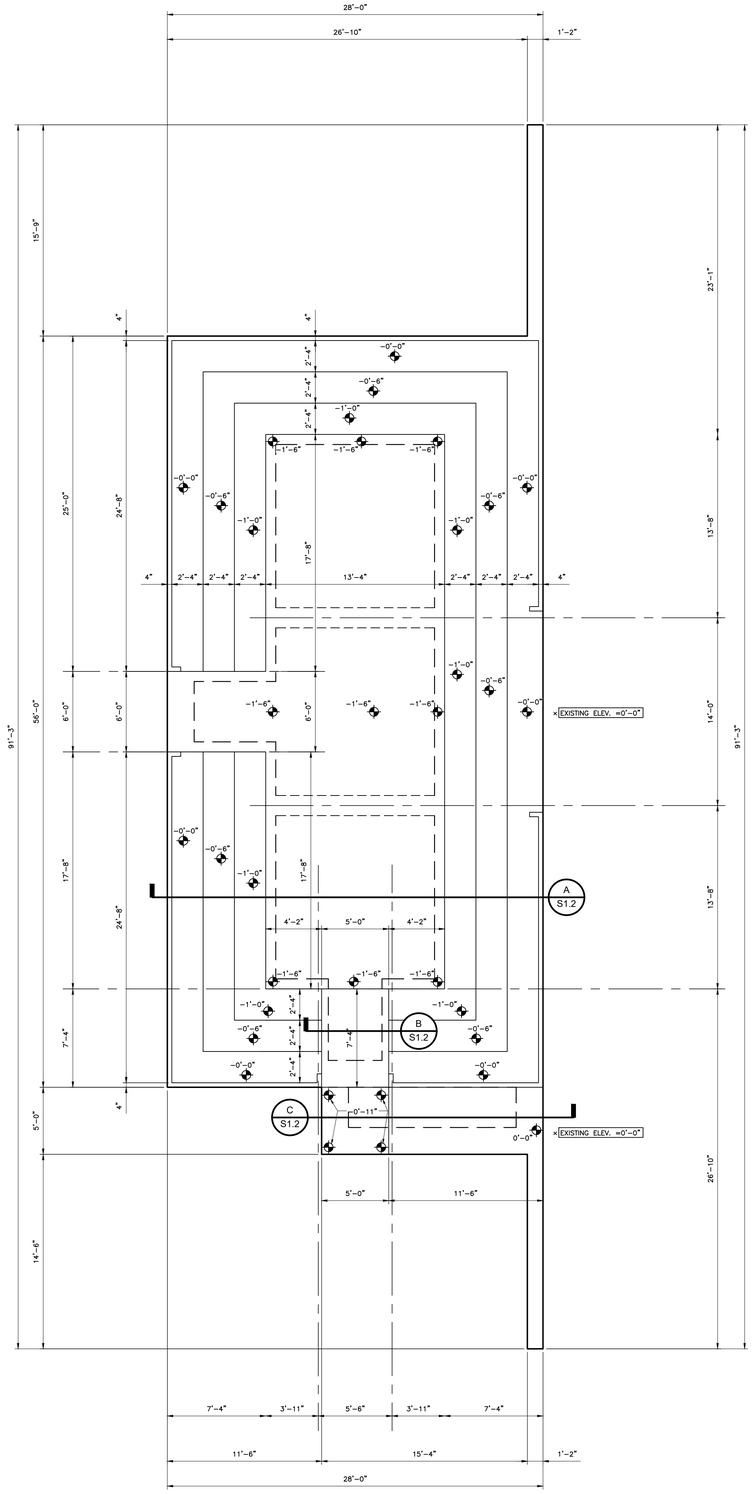
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1 CANOPY BENCH SEATING FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

NORTH

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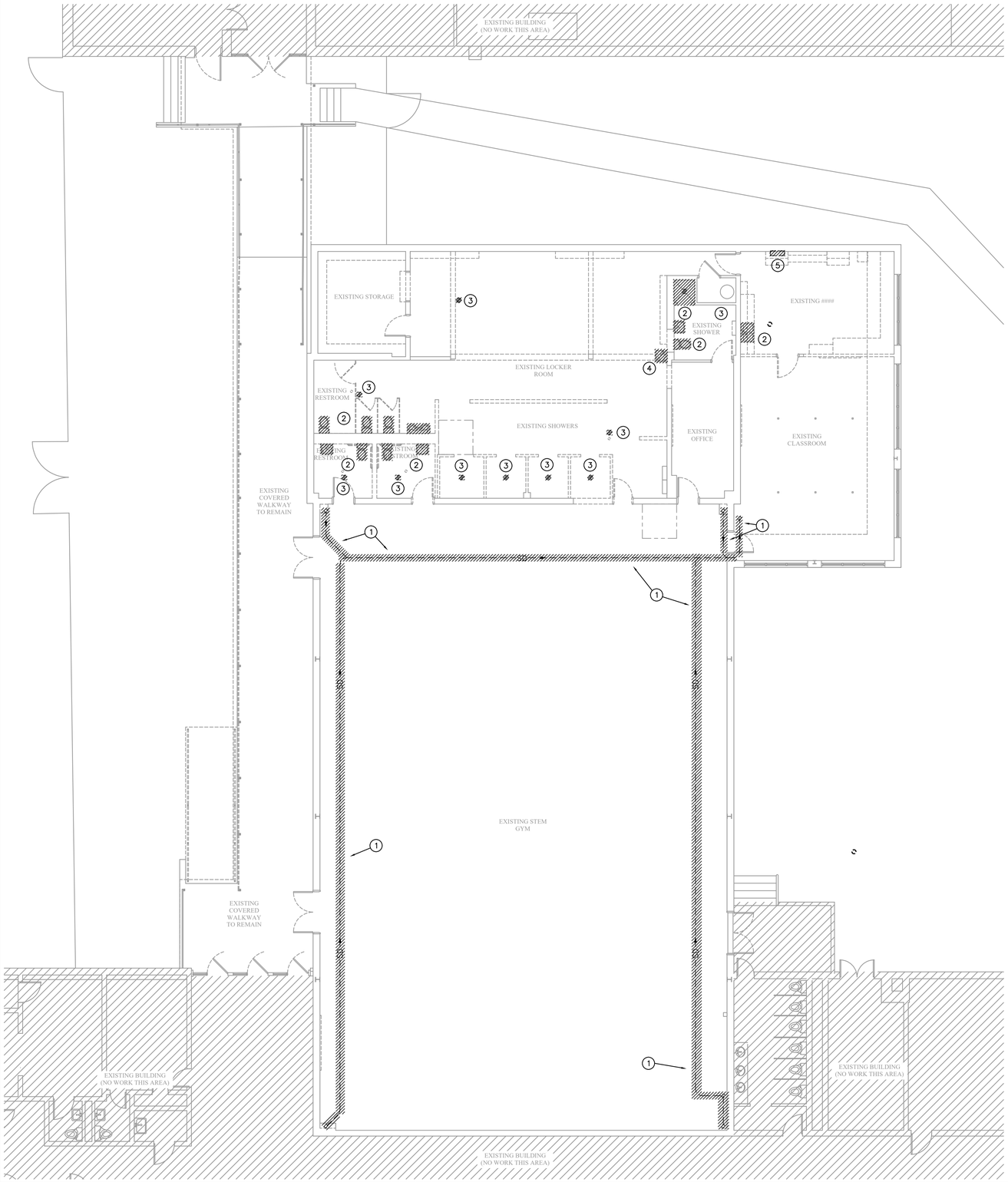
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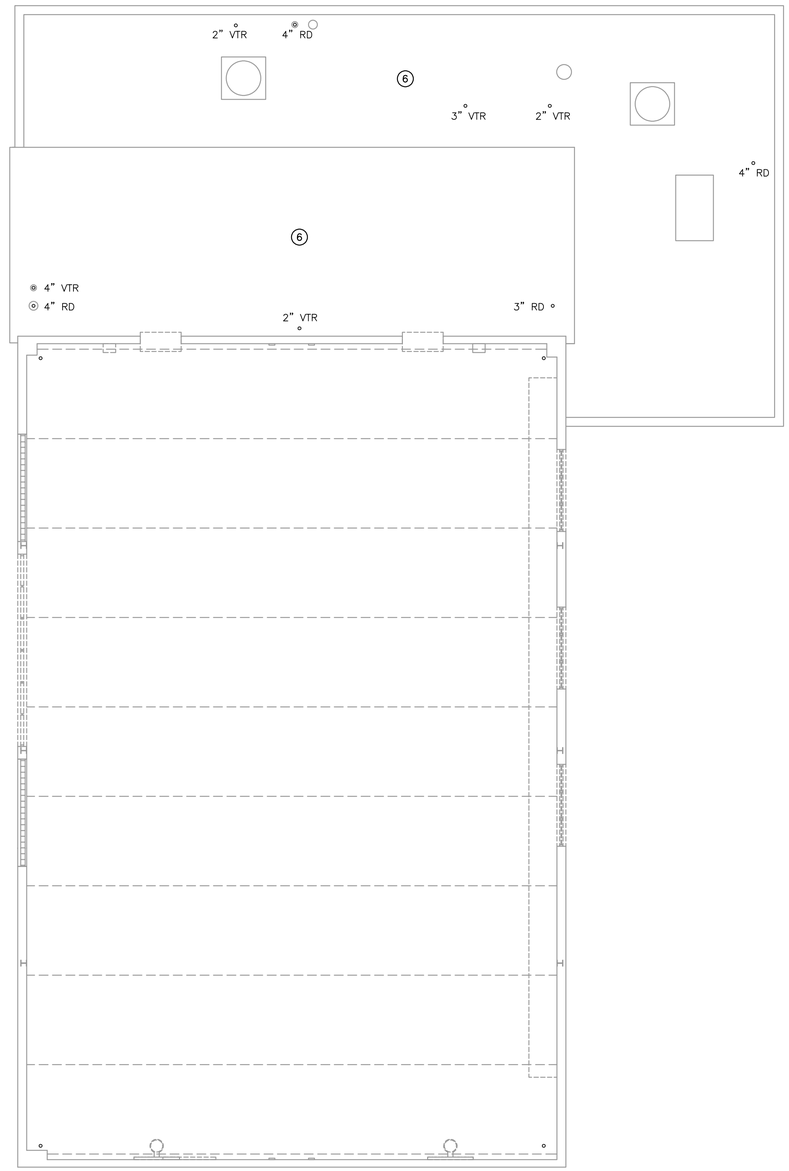
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PLUMBING DEMOLITION KEYNOTES:

1. REMOVE EXISTING ROOF DRAIN PIPING, INSULATION AND HANGERS IN GYM AND OUT ON ROOF. EXISTING ROOF DRAIN DROPS TO REMAIN. PREPARE FOR INSTALLATION OF NEW ROOF DRAIN PIPING AS SHONW ON SHEET P2.0 AT A HIGHER ELEVATION THROUGH THE TRUSSES.
2. REMOVE EXISTING PLUMBING FIXTURES. CAP EXISTING SEWER WASTE AND VENT PIPING AND DOMESTIC COLD WATER PIPING BACK AT MAIN LINES. PREPARE FOR INSTALLATION OF NEW PLUMBING FIXTURES AS SHOWN ON SHEET P2.0. REMOVE ALL EXISTING DMOESTIC HOT WATER PIPING BACK TO WATER HEATER.
3. REMOVE EXISTING FLOOR DRAIN AND PROPERLY CAP PIPING BELOW FLOOR BACK AT MAIN LINE.
4. REMOVE EXISTING WATER COOLER AND CAP EXISTING SEWER AND WATER SERVICES BEHIND NEW FINISHED SURFACES.
5. REMOVE EXISTING WASHING MACHINE BOX AND CAP EXISTING SEWER AND WATER SERVICES BEHIND NEW FINISHED SURFACES.
6. APPROXIMATE LOCATIONS OF EXISTING ROOF DRAINS AND SEWER VENTS–THRU–ROOF TO REMAIN.



Plumbing Demolition Plan - Small Robotics Arena — SCALE: 1/8"=1'-0" — 1



Roof Plumbing Demolition Plan - Small Robotics Arena — SCALE: 1/8" = 1'-0" — 2

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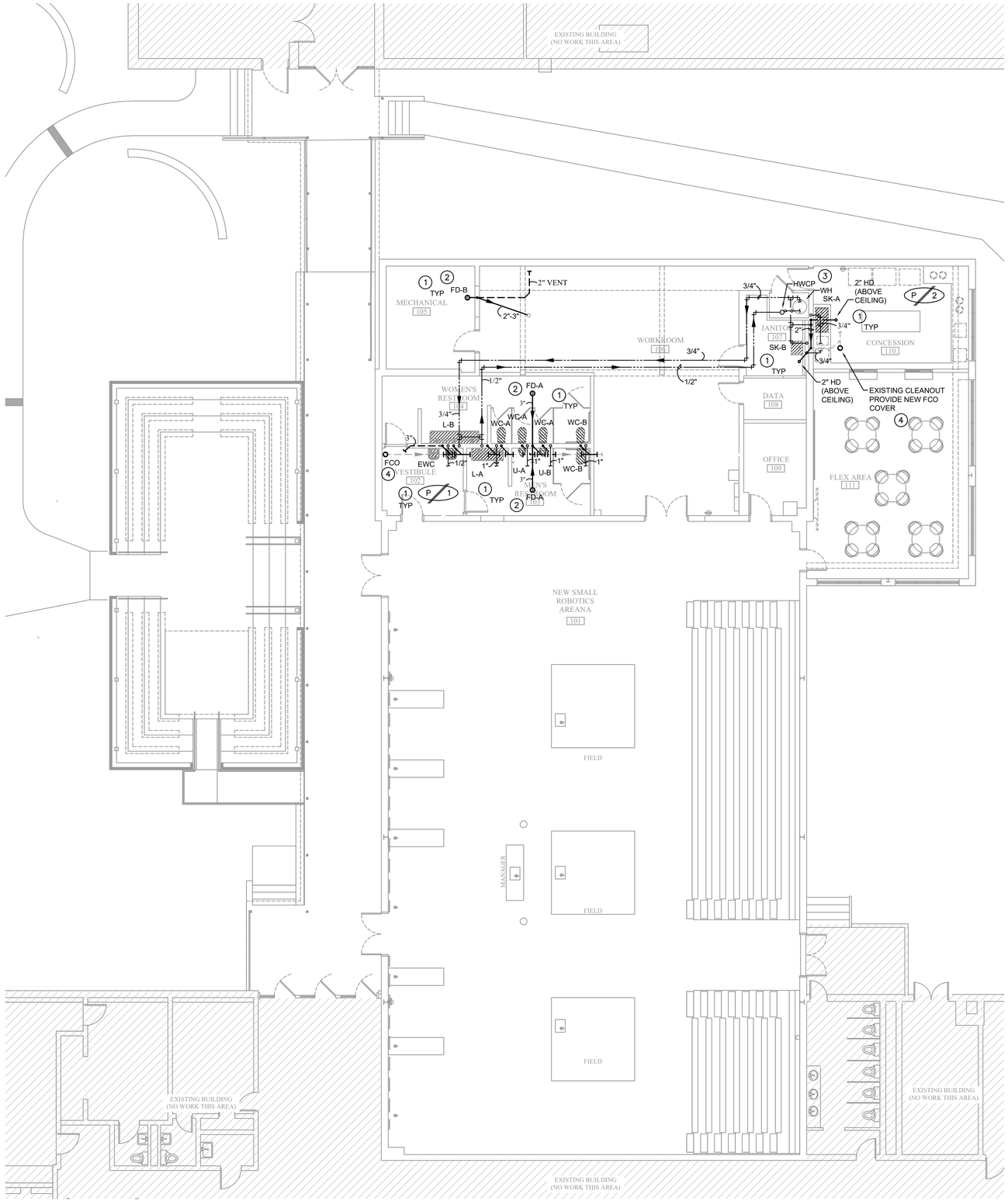
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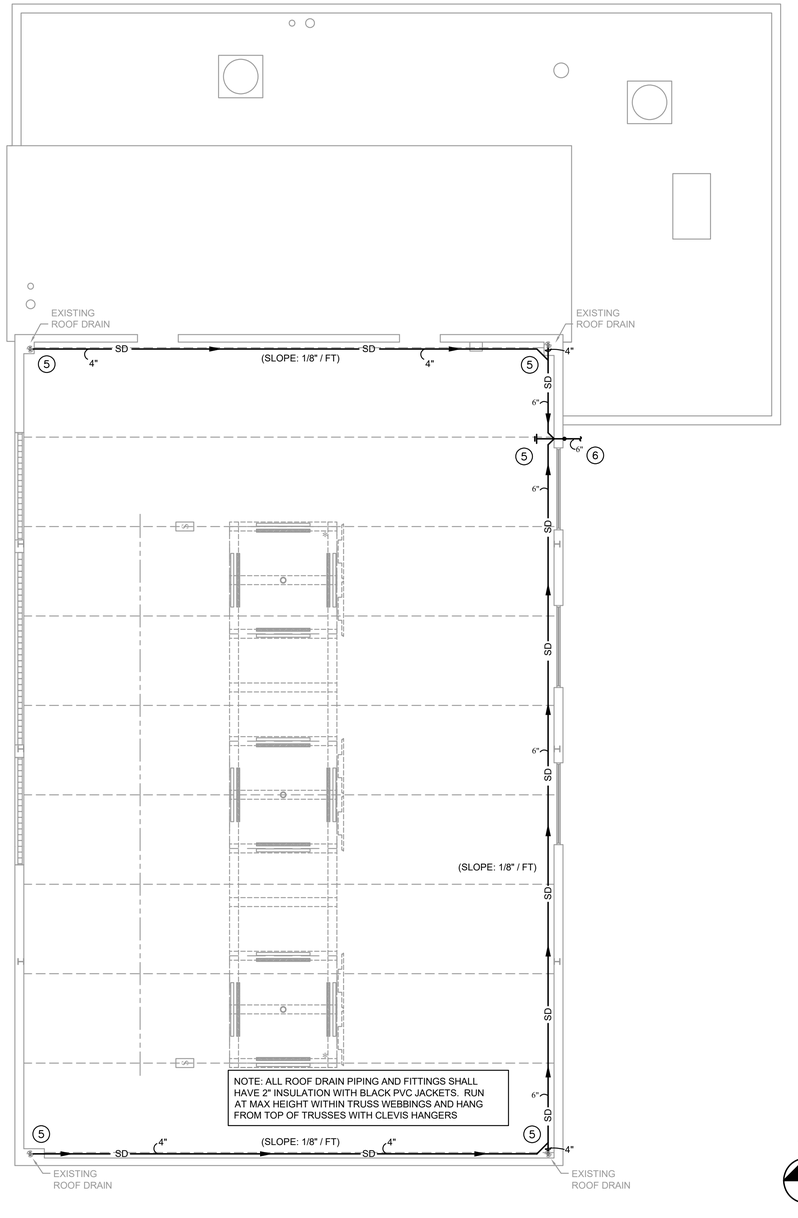
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PLUMBING KEYNOTES:

1. PROVIDE NEW PLUMBING FIXTURES AS SCHEDULED. CONNECT TO EXISTING SEWER LINES BELOW FLOOR AND EXISTING SEWER VENTS THROUGH ROOF. CUT AND PATCH EXISTING SLAB AS REQUIRED FOR NEW PIPING INSTALLATION. CONNECT TO NEAREST EXISTING COLD WATER PIPE OF SAME SIZE OR GREATER. CONNECT TO NEW DOMESTIC HOT WATER PIPING LOOP. (TYPICAL)
2. PROVIDE PRO-SET TRAP GUARDS FOR ALL FLOOR DRAINS.
3. CONNECT NEW INSULATED DOMESTIC HOT WATER LINE TO EXISTING WATER HEATER. PROVIDE NEW EXPANSION TANK. PROVIDE NEW HOT WATER CIRCULATOR WITH CHECK VALVE, AQUASTAT, TIMER, ETC. AND CONNECT TO WATER HEATER. RUN NEW INSULATED HOT WATER LOOP WITH HANGERS CONCEALED ABOVE CEILING AND TIGHT UP THROUGH STRUCTURE WHERE EXPOSED.
4. PROVIDE NEW FLOOR CLEANOUTS ON EXISTING SEWER PIPING.
5. CONNECT NEW PVC ROOF DRAIN PIPING TO EXISTING HIGH ROOF DRAINS IN GYM. RUN NEW ROOF DRAIN PIPE SLOPED AT 1/8" PER FOOT AS HIGH AS POSSIBLE THROUGH WEBBING OF TRUSSES AND PROVIDE HANGERS AT TOP OF TRUSSES. ROOF DRAIN PIPE AND FITTINGS SHALL BE WRAPPED WITH INSULATION AND COVERED WITH BLACK PVC JACKETS. BOTTOM OF EXISTING ROOF DRAIN BODIES SHALL BE REINSULATED. ANY EXPOSED INSULATED NOT COVERED SHALL BE PAINTED BLACK. NO ROOF DRAIN PIPING SHALL BE RUN BELOW THE BOTTOM OF TRUSS LEVEL. COORDINATE ROOF DRAIN PIPE ROUTING WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
6. RUN ROOF DRAIN THROUGH EXTERIOR WALL OPENING, DROP DOWN IN CORNER OF BUILDING TO GRADE, CONTINUE TO CORNER OF BUILDING WITH AND TERMINATE IN SWALE SHOWN ON ARCHITECTURAL OR CIVIL PLANS. PROVIDE ANY HANGERS OR SUPPORTS REQUIRED. EXTERIOR PIPE SHALL BE INSULATED WITH AN ALUMINUM JACKET TO PROTECT PVC FROM UV RAYS.



New Plumbing Plan - Small Robotics Arena — SCALE: 1/8" = 1'-0" — (1)



New Upper Plumbing Plan - Small Robotics Arena — SCALE: 1/8" = 1'-0" — (2)

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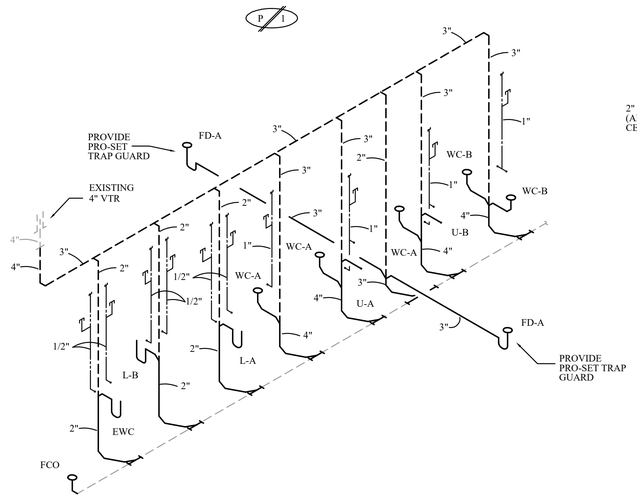
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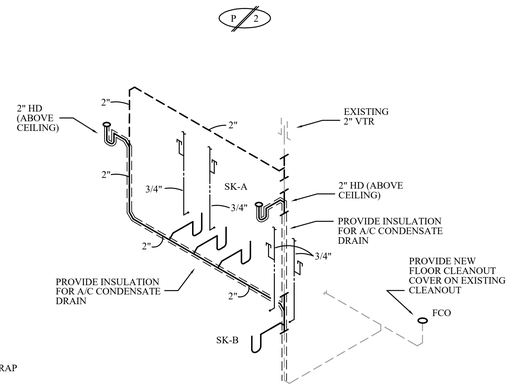
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PRINT DATE
10/08/2026

PLUMBING FIXTURE SCHEDULE

MARK DESCRIPTION	MFGRS & MODEL NUMBERS	SERVICES (INCHES) TRAP	WASTE	VENT	HW	CW	REMARKS
WC-A WATER CLOSET: FLOOR MOUNT	KOHLER K-96053 OLSONITE 10SSCT SLOAN - REGAL 111-1.6	INT.	4"	3"	--	1"	WHITE, VITREOUS CHINA, FLOOR MOUNT WATER CLOSET WITH ELONGATED BOWL, 1-1/2" TOP SPUD, AND BOLT CAPS. PROVIDE WHITE, OPEN FRONT, SELF-SUSTAINING SEAT WITH NON-CORRODING 300 SERIES STAINLESS STEEL POSTS, CHECK HINGE, LESS COVER. PROVIDE 1.6 GALLON MANUAL FLUSH VALVE WITH DIAPHRAGM VALVE, VACUUM BREAKER AND STOP. SECURE ESCUTCHEON AT WALL.
WC-B WATER CLOSET: FLOOR MOUNT ADA	KOHLER K-96057 OLSONITE 10SSCT SLOAN - REGAL 111-1.6	INT.	4"	3"	--	1"	WHITE, VITREOUS CHINA, FLOOR MOUNT, ADA WATER CLOSET WITH ELONGATED BOWL, 1-1/2" TOP SPUD, AND BOLT CAPS. PROVIDE WHITE, OPEN FRONT, SELF-SUSTAINING SEAT WITH NON-CORRODING 300 SERIES STAINLESS STEEL POSTS, CHECK HINGE, LESS COVER. PROVIDE 1.6 GALLON MANUAL FLUSH VALVE WITH DIAPHRAGM VALVE, VACUUM BREAKER AND STOP. INSTALL FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. SECURE ESCUTCHEON AT WALL.
U-A URINAL: WALL HUNG	KOHLER - 4991-ET WADE W-401 SLOAN REGAL 186-1.0	INT.	2"	2"	--	3/4"	WHITE, VITREOUS CHINA, 1.0 GAL FLUSH, WALL MOUNT URINAL WITH 3/4" TOP SPUD. PROVIDE FLOOR MOUNTED CARRIER WITH BACK TO BACK SYSTEM OPTION WHERE REQUIRED. PROVIDE 1.0 GALLON MANUAL FLUSH VALVE WITH DIAPHRAGM VALVE, VACUUM BREAKER AND STOP.
U-B URINAL: WALL HUNG ADA	KOHLER - 4991-ET WADE W-401 SLOAN REGAL 186-1.0	INT.	2"	2"	--	3/4"	WHITE, VITREOUS CHINA, 1.0 GAL FLUSH, WALL MOUNT URINAL WITH 3/4" TOP SPUD. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS TO COMPLY WITH ADA REQUIREMENTS. PROVIDE FLOOR MOUNTED CARRIER WITH BACK TO BACK SYSTEM OPTION WHERE REQUIRED. PROVIDE 1.0 GALLON MANUAL FLUSH VALVE WITH DIAPHRAGM VALVE, VACUUM BREAKER AND STOP.
L-A LAVATORY SYSTEM: WALL HUNG ADA	REFERENCE REMARKS	1-1/4"	2"	2"	1/2"	1/2"	2 STATION WALL HUNG LAVATORY WITH CENTERSET FAUCET HOLES AND NO BACKSPLASH. COORDINATE STANDARD COLOR WITH ARCHITECT. PROVIDE AND INSTALL METERING FAUCETS IN CENTERSET HOLES. PROVIDE ASSE 1070 MIXING VALVE ON FAUCETS SHOWN WITH HOT AND COLD WATER SUPPLY TO FAUCETS. METERING FAUCETS SHALL BE SET/ADJUSTED TO PROVIDE THE MAXIMUM AVAILABLE METERING TIME (APPROX. 25-30 SECONDS), BUT NO LESS THAN THE DHH REQUIRED MINIMUM 15 SECOND REQUIREMENT. PROVIDE 17 GA. CAST BRASS P-TRAP, CONTINUOUS WASTE, STOPS AND HOSES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT TO MEET ADA REQUIREMENTS. COORDINATE WALL MOUNTING BRACKET SUPPORT REQUIREMENTS WITH GENERAL CONTRACTOR. LAVATORY: BRADLEY - ELX-2-SHANK-NONE-NSD, ACORN - 3802-1-9-H1, OR APPROVED EQUAL FAUCET: MOEN - 8894, OR APPROVED EQUAL. PROVIDE STANDARD FLOW AERATOR TO AVOID OVER-SPRAY. MIXING VALVE: ACORN - ST70 OR APPROVED EQUAL
L-B LAVATORY SYSTEM: WALL HUNG ADA	REFERENCE REMARKS	1-1/4"	2"	2"	1/2"	1/2"	3 STATION WALL HUNG LAVATORY WITH CENTERSET FAUCET HOLES AND NO BACKSPLASH. COORDINATE STANDARD COLOR WITH ARCHITECT. PROVIDE AND INSTALL METERING FAUCETS IN CENTERSET HOLES. PROVIDE ASSE 1070 MIXING VALVE ON FAUCETS SHOWN WITH HOT AND COLD WATER SUPPLY TO FAUCETS. METERING FAUCETS SHALL BE SET/ADJUSTED TO PROVIDE THE MAXIMUM AVAILABLE METERING TIME (APPROX. 25-30 SECONDS), BUT NO LESS THAN THE DHH REQUIRED MINIMUM 15 SECOND REQUIREMENT. PROVIDE 17 GA. CAST BRASS P-TRAP, CONTINUOUS WASTE, STOPS AND HOSES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT TO MEET ADA REQUIREMENTS. COORDINATE WALL MOUNTING BRACKET SUPPORT REQUIREMENTS WITH GENERAL CONTRACTOR. LAVATORY: BRADLEY - ELX-2-SHANK-NONE-NSD, ACORN - 3802-1-9-H1, OR APPROVED EQUAL FAUCET: MOEN - 8894, OR APPROVED EQUAL. PROVIDE STANDARD FLOW AERATOR TO AVOID OVER-SPRAY. MIXING VALVE: ACORN - ST70 OR APPROVED EQUAL
SK-A SINK 3-COMP. ADA	ELKAY CMR4322 (3) LK99 LK810AT12T4 ACORN ST70 TRUEBRO 102	1-1/2"	2"	2"	1/2"	1/2"	20 GA. TYPE 304 SS TRIPLE COMPARTMENT SINK 43"x22"x7" DEEP, DECK MOUNTED SWING SPOUT FAUCET (1.5 GPM) WITH 12" REACH AND WING HANDLES, (3) DRAINS WITH STRAINERS, WITH CAST BRASS CONTINUOUS WASTE AND P-TRAP, ANGLE SUPPLIES WITH STOPS. INSULATE P-TRAP, HOT AND COLD WATER SUPPLIES WITH TRUEBRO 102 LAVGUARD. PROVIDE ASSE 1070 COMPLIANT MIXING VALVE. COORDINATE P-TRAP INSTALLATION HEIGHT WITH ARCHITECT'S KNEE SPACE COVER PANEL AND COUNTER TOP HEIGHT PRIOR TO ROUGH-IN.
SK-B SINK: 2-COMP. MOLDED POLYMER LEGGED	FIAT - FLTD II A-1 ACORN - ST70	3"	3"	2"	3/4"	3/4"	MOLDED POLYMER, 40"X24"X33-3/4", TWO COMPARTMENT, LEGGED SINK WITH STEEL PAINTED LEGS, DRAIN ASSEMBLY, PLUGS, P-TRAP, AND TWO SUPPLY LINES. PROVIDE CHROME PLATED FAUCET WITH 4" CENTERSET, 4" BLADE HANDLES, SWING SPOUT, AERATOR, AND HOSE ADAPTOR. PROVIDE ASSE 1070 COMPLIANT MIXING VALVE.
EWC-A ELECTRIC WATER COOLER: BI-LEVEL ADA MECHANICALLY ACTIVATED FULL METAL BODY BOTTLE FILLER	ELKAY - EMABFTL8WSSC 98324C CANE APRON EZWSR BOTTLE FILLER MLP200 CARRIER	1-1/2"	2"	2"	--	1/2"	STAINLESS STEEL, FULL METAL BODIED, BI-LEVEL, NON-FILTERED, BARRIER-FREE, WALL HUNG, MECHANICALLY OPERATED, ADA WATER COOLER WITH FLEXI-GUARD SAFETY BUBBLER, 8.0 GPH OF 50 DEGREE OUTLET WATER AT 80 DEGREE INLET WATER TEMP. AT 90 DEGREE AMBIENT TEMP., 370W, 6A FLA, 120 VOLT. MOUNT TO COMPLY WITH ADA REQUIREMENTS AND ARCHITECTURAL DRAWINGS. COORDINATE WITH ELECTRICAL CONTRACTOR. PROVIDE CANE APRON. PROVIDE BOTTLE FILLING STATION. PROVIDE IN-WALL CARRIER FOR BI-LEVEL ON-WALL BOTTLE FILLERS, COOLERS, AND FOUNTAINS.
FD-A FLOOR DRAIN	WADE - 1100-6-A6	3"	3"	2"	--	--	CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, AND SEEPAGE OPENINGS. PROVIDE ADJUSTABLE, 6" DIAMETER, NICKEL BRONZE STRAINER WITH SQUARE PERFORATIONS. FLOOR DRAIN STRAINER TOP SHALL BE FLUSH WITH FINISHED SURFACE TO AVOID TRIPPING HAZARD. PROVIDE P-TRAP. PROVIDE TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS.
FD-B FLOOR DRAIN: RECESSED GRATE	WADE - 1100-ER-7	3"	3"	2"	--	--	CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, AND SEEPAGE OPENINGS. PROVIDE ADJUSTABLE, 7" DIAMETER, NICKEL BRONZE, EXTENDED RIM, HEEL PROOF, STRAINER WITH SQUARE PERFORATIONS. PROVIDE P-TRAP PROVIDE TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS.
FCO FLOOR CLEANOUT	WADE - 6000	--	LINE SIZE	--	--	--	CAST IRON FLOOR CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED STAINLESS STEEL TOP. COORDINATE TOP STYLE WITH FINISHED FLOOR MATERIAL.
HD HUB DRAIN	N/A	--	LINE SIZE	--	--	--	HUB DRAIN SHALL BE CONSTRUCTED AS DETAILED. REFER TO PLUMBING DETAILS.
TRAP GUARD	PROVENT SYSTEMS - PROSET TRAP GUARD	--	LINE SIZE	--	--	--	WHERE SHOWN ON PLANS PROVIDE ELASTOMERIC, NORMALLY CLOSED TRAP GUARD DEVICE.





TANK WATER HEATER (ELECTRIC)

UNIT No	LOCATION	STORAGE GAL	EFFICIENCY (UEF)	HEATING ELEMENTS KW	ELEC. SERVICE	MFGR
WH	REFER TO SHEET P2.0	30	0.92	4.5 / 4.5	208/1/60	AO SMITH DEN-30 OR APPROVED EQUAL (1, 2)

(1) ELEMENTS SHALL BE WIRED FOR NON-SIMULTANEOUS USE.
(2) PROVIDE IPS WHS2 OR APPROVED EQUAL 18 GAUGE, GALVANIZED, 24"X24"X18" WATER HEATER STAND.

PUMP SCHEDULE

UNIT No	SERVICE	TOTAL GPM	HEAD FT H_2O	MOTOR HP	ELECTRIC SERVICE	REMARKS
HWCP	REFER TO SHEET P2.0	1	18'	1/25	120/1/60	GRUNDFOS UP-15-58FC WITH CORD, PLUG, TIMER AND AQUASTAT KIT. (1, 2)

(1) PUMPS SHALL CIRCULATE THE DOMESTIC HOT WATER TO MAINTAIN 120°F (ADJUSTABLE).
(2) INTERLOCK PUMP WITH AQUASTAT.

Plumbing Schedules

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STEM Gymnasium Improvements
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For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

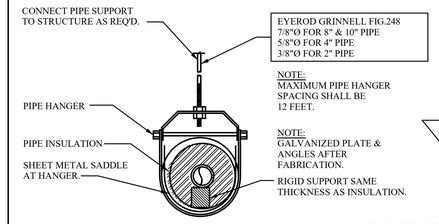
STATE OF LOUISIANA
HERBERT R. ALEXANDER, III
LICENSE No. 30775
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
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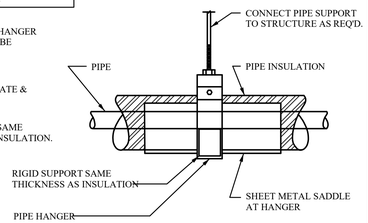
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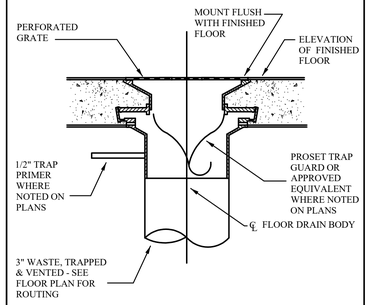
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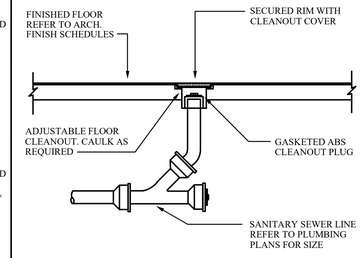




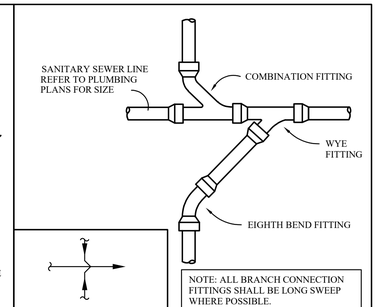
1 INSULATED PIPE HANGER DETAIL
NO SCALE



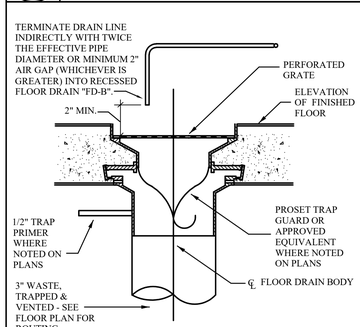
2 FLOOR DRAIN "FD-A" DETAIL
NO SCALE



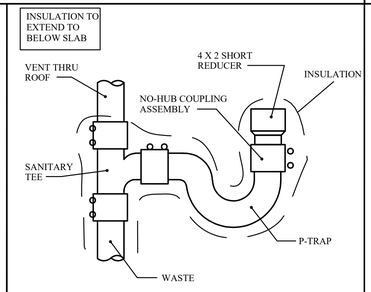
3 FLOOR CLEANOUT DETAIL
NO SCALE



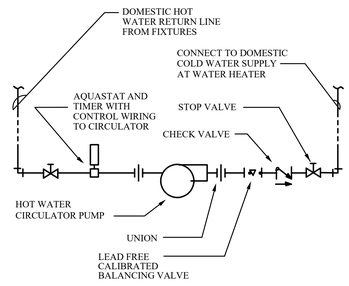
4 SANITARY SEWER CROSS INSTALLATION METHOD CONNECTION DETAIL (TYPICAL)
NO SCALE



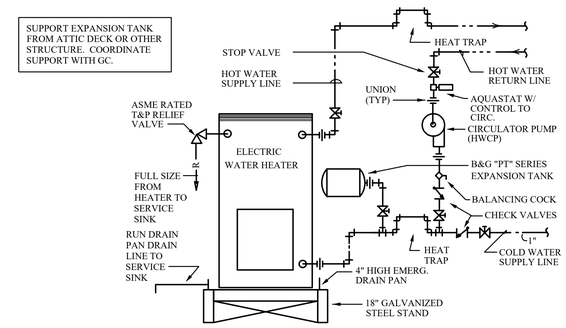
5 FLOOR DRAIN "FD-B" DETAIL
NO SCALE



6 HUB DRAIN DETAIL
NO SCALE



7 HOT WATER CIRCULATION SYSTEM PIPING DIAGRAM (HWCP)
NO SCALE



8 WATER HEATER DETAIL (WH)
NO SCALE

Plumbing Details

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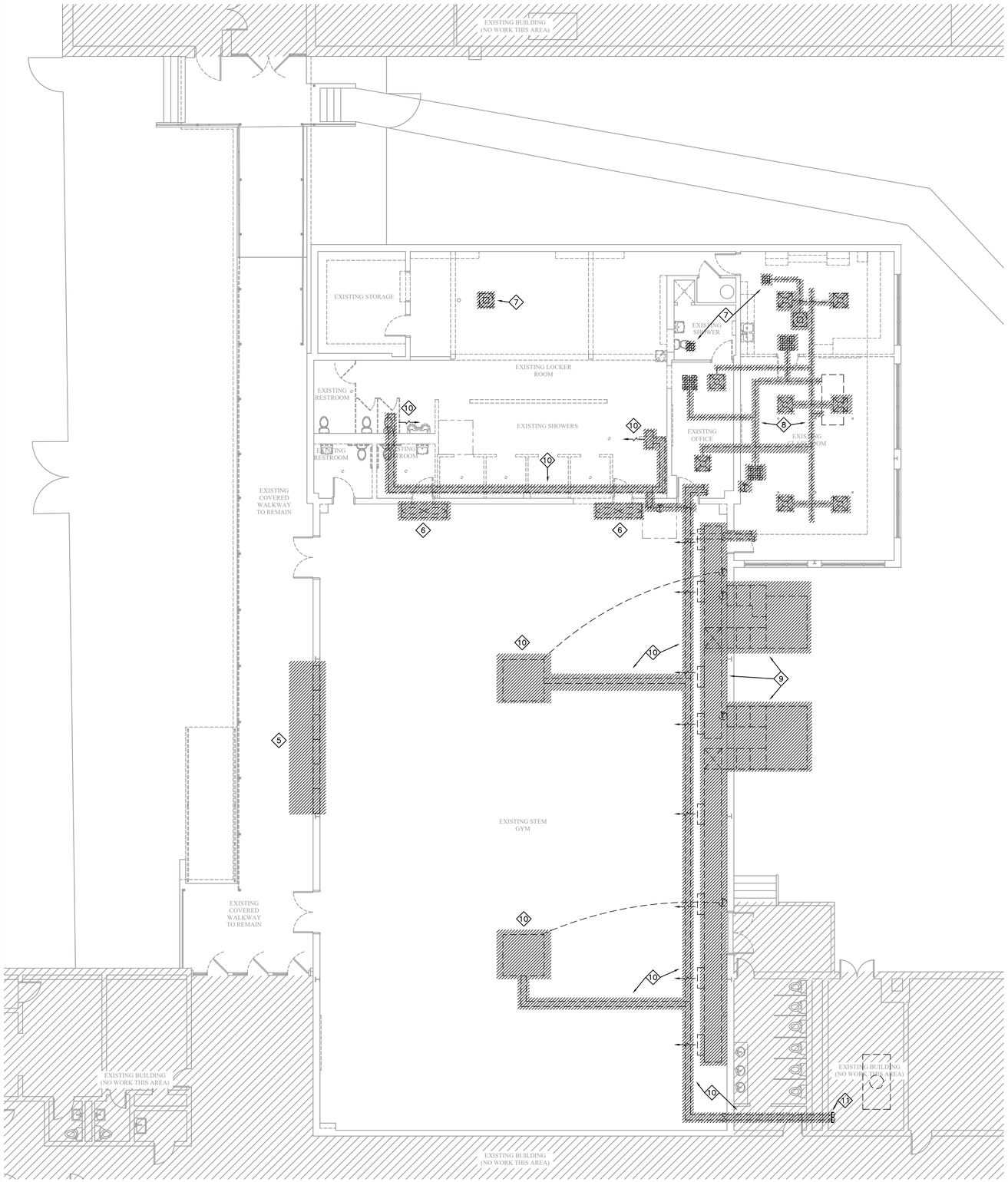
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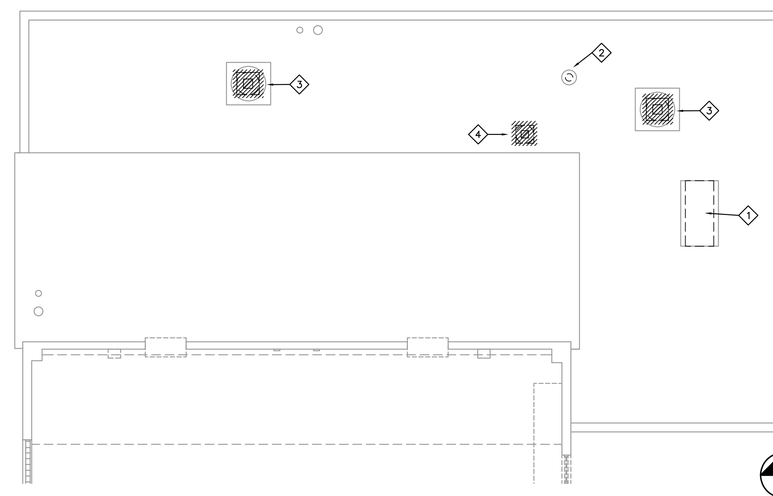
Mechanical Demolition Plan - Small Robotics Arena

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

1

MECHANICAL DEMOLITION KEYNOTES:

1. EXISTING RTU ROOF CURB TO REMAIN. REMOVE EXISTING CAP AND PREPARE FOR INSTALLATION OF NEW CURB ADAPTER AND NEW RTU.
2. EXISTING WATER HEATER FLUE TO REMAIN.
3. REMOVE EXISTING EXHAUST FAN. PROVIDE NEW STAINLESS STEEL CAP WITH R-30 INSULATION AND SECURE TO EXISTING ROOF CURB WITH FASTENERS AND SEAL WEATHERTIGHT.
4. REMOVE EXISTING EXHAUST FAN. EXISTING ROOF CURB TO REMAIN. PREPARE FOR INSTALLATION OF NEW EXHAUST HOOD.
5. REMOVE EXISTING WALL LOUVERS AND INTAKE HOODS AND CONTROLS. REFER TO ARCHITECTURAL PLANS FOR SEALING OF OPENINGS.
6. REMOVE EXISTING WALL FANS AND CONTROLS. PREPARE FOR INSTALLATION OF NEW DUCTWORK PENETRATIONS AND RETURN GRILLES SHOWN ON SHEET M2.0.
7. REMOVE EXISTING EXHAUST DUCT AND GRILLES.
8. REMOVE ALL SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, CONTROLS, INSULATION, ETC.
9. REMOVE EXISTING PACKAGED A/C UNITS, SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, CONTROLS, INSULATION, ETC.
10. REMOVE EXISTING HOT WATER UNIT HEATERS, PIPING, INSULATION, HANGERS, ETC.
11. CAP EXISTING HOT WATER SUPPLY AND RETURN PIPING IN BOILER ROOM BACK AT MAIN LINE CONNECTION AND INSULATED WHERE CAPPED.



Roof Mechanical Demolition Plan - Small Robotics Arena

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

2

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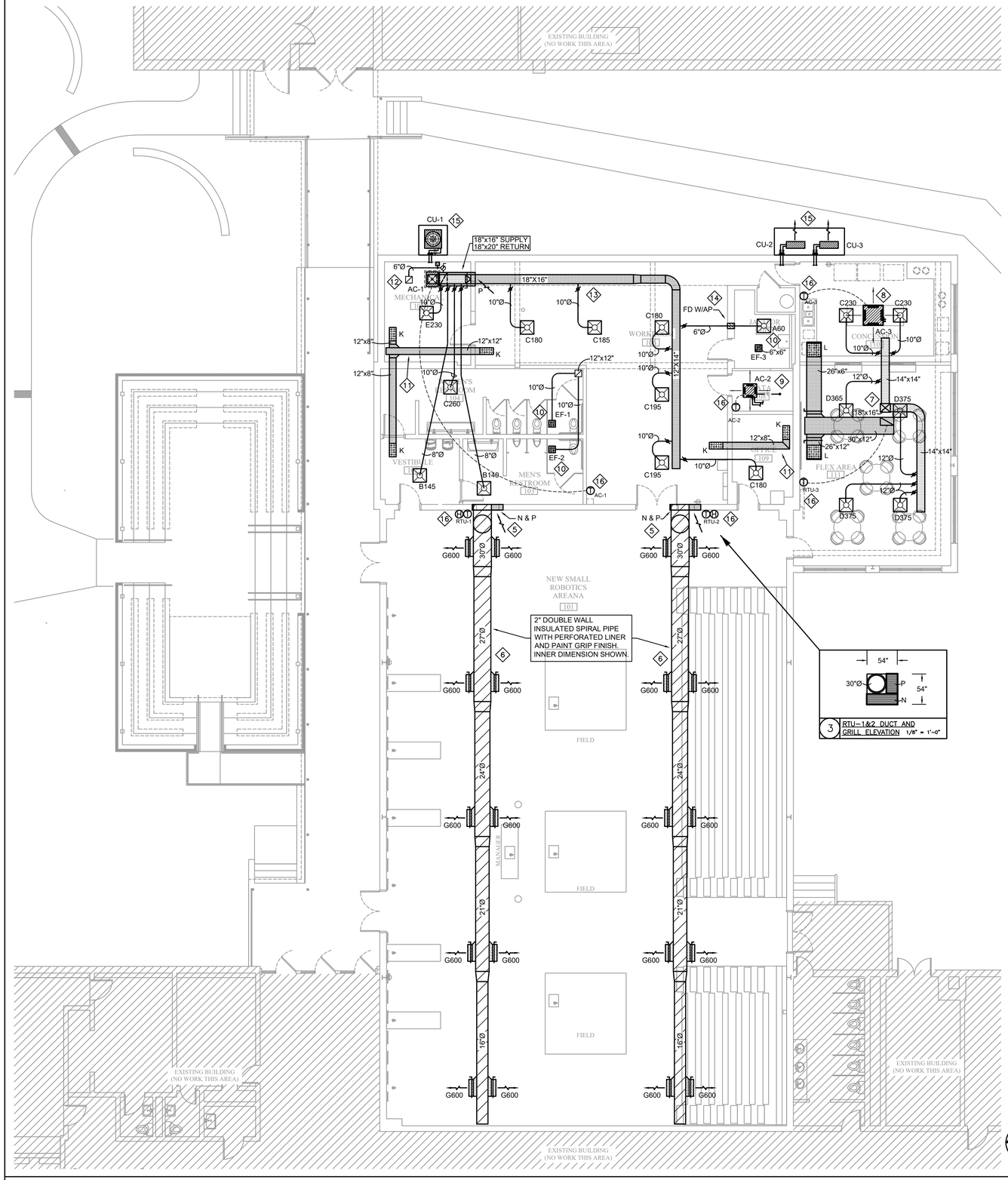
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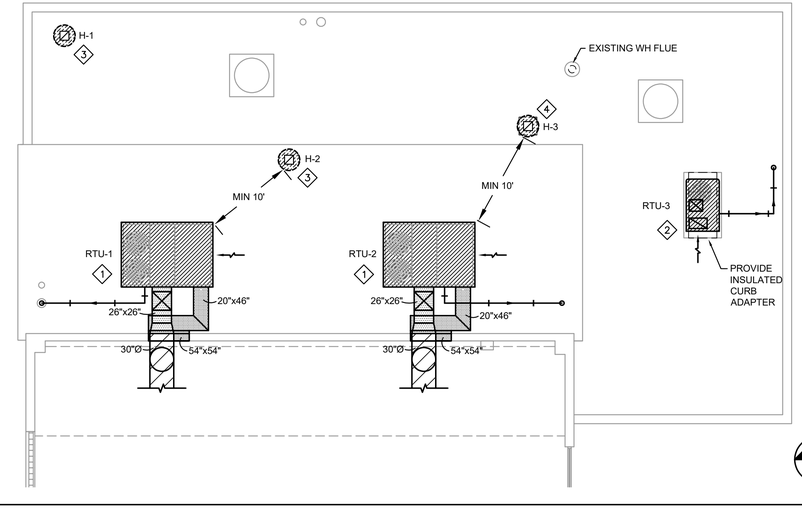
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New Mechanical Plan - Small Robotics Arena — SCALE: 1/8" = 1'-0" — 1

MECHANICAL KEYNOTES:

1. PROVIDE NEW PACKAGED DX ROOFTOP UNIT WITH INSULATED ROOF CURB AS SCHEDULED. SECURE ROOF CURB TO ROOF AND SECURE RTU TO ROOF CURB. PROVIDE DOUBLE WALL INSULATED SUPPLY AND RETURN DUCTWORK FROM SIDE RTU CONNECTIONS AND RUN TO OLD EXHAUST FAN OPENING. FLASH AND SEAL AROUND DUCT AT OPENING PENETRATION WEATHERTIGHT. RUN INSULATED CONDENSATE DRAIN LINE ON BIG FOOT ROOF SUPPORTS TO EXISTING ROOF DRAIN. PROVIDE ALUMINUM JACKET ON INSULATION. COORDINATE ROOF CURB INSTALLATION WITH ROOFING CONTRACTOR.
2. PROVIDE NEW PACKAGED DX ROOFTOP UNIT WITH INSULATED CURB ADAPTER AS SCHEDULED. SECURE CURB ADAPTER TO EXISTING ROOF CURB AND SECURE RTU TO CURB ADAPTER. PROVIDE GUY WIRES, TURNBUCKLES, AND ANCHORS TO SECURE RTU TO ROOF FOR HURRICANE RESISTANCE. CONNECT SUPPLY AND RETURN DUCTWORK TO BOTTOM RTU CONNECTIONS AND DROP DOWN THROUGH CURB. SUPPLY AND RETURN DUCTWORK BELOW ROOF SHALL BE WRAPPED WITH INSULATION, NOT LINES. INSULATE BOTTOM OF RTU FROM BELOW TO PREVENT CONDENSATION. RUN INSULATED CONDENSATE DRAIN LINE ON BIG FOOT ROOF SUPPORTS TO EXISTING ROOF DRAIN. PROVIDE ALUMINUM JACKET ON INSULATION.
3. PROVIDE NEW INTAKE OR EXHAUST HOOD AS SCHEDULED WITH INSULATED ROOF CURB. COORDINATE ROOF CURB INSTALLATION WITH ROOFING CONTRACTOR. SECURE ROOF CURB TO ROOF DECK WITH FASTENERS. SECURE HOOD TO ROOF CURB WITH HURRICANE CABLES.
4. PROVIDE NEW EXHAUST HOOD WITH INSULATED CURB ADAPTER AND CONNECT TO EXISTING ROOF CURB. SECURE HOOD TO CURB WITH HURRICANE CABLES.
5. EXISTING 54X54 FAN OPENING WILL BE FILLED WITH ROUND SUPPLY DUCT AND RETURN GRILLES PER DETAIL 3 THIS SHEET. PROVIDE SUPPLY AND RETURN DUCT TRANSITIONS ON THE ROOF AS REQUIRED. FIELD VERIFY EXACT DIMENSIONS OF OPENING PRIOR TO ORDERING RETURN GRILLES. ALL GAPS AROUND DUCT AND GRILLES SHALL BE SEALED WEATHER TIGHT.
6. RUN 2" DOUBLE WALL SPIRAL PIPE WITH PERFORATED LINER AND I.D. SIZES SHOWN. PROVIDE PAINT GRIP FINISH FOR PAINTING BY PAINTING CONTRACTOR. HANG TIGHT UP AGAINST BOTTOM OF TRUSSES WITH BANDS AND THREADED RODS SECURED TO TOP OF TRUSSES.
7. CONTINUE FROM RTU-3 WITH SUPPLY AND RETURN DUCT ABOVE CEILING.
8. PROVIDE CEILING CASSETTE IN CONCESSION AREA CEILING FOR SUPPLEMENTARY COOLING. RTU-3 IS FOR PRIMARY COOLING. WHEN CONCESSION STAND IS UNOCCUPIED, SET THERMOSTAT FOR AC-3 THREE DEGREES HIGHER THAN RTU-3 (BOTH IN COOLING MODE). RUN INSULATED CONDENSATE DRAIN LINE FROM CONDENSATE PUMP TO HUB DRAIN SHOWN ON PLUMBING PLANS.
9. PROVIDE CEILING CASSETTE IN DATA ROOM CEILING. RUN INSULATED CONDENSATE DRAIN LINE FROM CONDENSATE PUMP TO HUB DRAIN SHOWN ON PLUMBING PLANS.
10. INSTALLED EXHAUST FAN IN CEILING WITH OCCUPANCY SENSOR. RUN DUCTWORK FROM FAN AND CONNECT TO PLENUM BOX BELOW NEW HOOD ON ROOF.
11. PROVIDE RETURN AIR TRANSFER DUCT AS SHOWN.
12. INSTALL A/C UNIT ON GALVANIZED STEEL ANGLE IRON STAND IN DRAIN PAN WITH FLOAT SWITCH. TERMINATE INSULATED CONDENSATE DRAIN LINE IN FLOOR DRAIN SHOWN ON PLUMBING PLANS. PROVIDE SEPARATE DRAIN PAN DRAIN LINE WITH CUTOFF VALVE AND TERMINATE IN FLOOR DRAIN. RUN OUTSIDE AIR DUCT FROM RETURN DUCT UP TO INTAKE HOOD ON ROOF. PROVIDE MOTORIZED DAMPER (120-1-60 ELEC. SERVICE) AND MANUAL BALANCING DAMPER IN OUTSIDE AIR DUCT CONNECTED TO RETURN AIR DUCT. MOTORIZED DAMPER SHALL BE INTERLOCKED TO SHUT WHEN NEITHER CONDENSING UNIT OR HEATING ELEMENT IS ON. PROVIDE MANUAL BALANCING DAMPER IN R/A DUCT. BALANCE R/A & OUTSIDE AIR AS SCHEDULED.
13. RUN EXTERNALLY WRAPPED INSULATED RECTANGULAR LOW PRESSURE DUCTWORK AT MAX HEIGHT SECURED TO BOTTOM OF STRUCTURE. COORDINATE WITH STRUCTURE, CEILING HEIGHT, LIGHTING, ETC. PRIOR TO ROUGH-IN.
14. PROVIDE FIRE DAMPERS WITH ACCESS PANELS AT RATED WALL PENETRATIONS.
15. PROVIDE AND INSTALL CONDENSING UNITS ON 4" CONCRETE HOUSEKEEPING PADS FOR A LEVEL INSTALLATION. SECURE CONDENSING UNITS TO PADS. RUN INSULATED REFRIGERANT LINES UP ALONG WALL WITH SUPPORTS TO ABOVE CEILING HEIGHT AND CONTINUE CONCEALED ABOVE CEILING TO INDOOR A/C UNITS. PROVIDE PAINTED METAL COVERS TO CONCEAL EXTERIOR REFRIGERANT PIPE. COORDINATE COLOR AND TYPE OF COVERS WITH ARCHITECT. PROVIDE WHITE UV/WEATHER RESISTANT MASTIC ON EXPOSED INSULATION.
16. PROVIDE METAL LOCK BOXES FOR THERMOSTATS AND HUMIDISTATS IN GYM. PROVIDE CLEAR LOCK BOXES FOR ALL OTHER THERMOSTATS. INSTALL AT ADA HEIGHT. COORDINATE EXACT LOCATIONS IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN. INTEGRATE ALL THERMOSTATS TO THE JCI CONTROL SYSTEM.



New Upper Mechanical Plan - Small Robotics Arena — SCALE: 1/8" = 1'-0" — 2

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STATE OF LOUISIANA
HERBERT R. ALEXANDER, III
LICENSE No. 30775
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
10/08/26

CHAMPEAUX EVANS HOTARD, APAC

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PRINT DATE
10/08/2026

PACKAGED ROOFTOP A/C UNIT SCHEDULE

UNIT				FAN								COOLING							HOT GAS REHEAT			HEATING								
UNIT No.	UNIT MCA	UNIT MOCP	ELECTRIC SERVICE	MIN CFM	CFM FA	STATIC PRES EXT	STATIC PRES TOTAL	FAN HP	EER	IEER	EER2	SEER2	NET TOTAL BTUH CAPACITY	NET SENSIBLE BTUH CAPACITY	ENT (°F) DB	ENT (°F) WB	LAT (°F) DB	LAT (°F) WB	AMB TEMP °F	EVAP TEMP °F	HGRH BTUH CAPACITY	HGRH LAT (°F) DB	HGRH LAT (°F) WB	HGRH DP °F	MIN. B.T.U.H. OUTPUT	K.W. ELEC. STRIP MIN.	K.W. ELEC. STRIP MAX.	NO. STAGES	ENT. AIR (°F)	LEAV. AIR (°F)	ELECTRIC SERVICE	REMARKS	FOOTNOTES
RTU-1	164A	175A	208-3-60	6000	675	1.0"	1.09"	3	11.0	14.2	--	--	173,850	122,730	74.8	64.5	54.9	54.3	95	45	138,350	73.9	60.5	51.9	184,410	54	54	2	64.9	93.4	208-3-60	TRANE TSK180A3S0P OR APPROVED EQUAL	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
RTU-2	164A	175A	208-3-60	6000	675	1.0"	1.09"	3	11.0	14.2	--	--	173,850	122,730	74.8	64.5	54.9	54.3	95	45	138,350	73.9	60.5	51.9	184,410	54	54	2	64.9	93.4	208-3-60	TRANE TSK180A3S0P OR APPROVED EQUAL	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
RTU-3	63A	70A	208-3-60	1950	200	0.75"	0.82"	1	12.0	14.0	11.0	13.4	54,810	43,070	73.8	62.3	52.5	52.0	95	45	--	--	--	--	61,470	18	18	2	65.4	94.5	208-3-60	TRANE TSK060A3S0G OR APPROVED EQUAL	1, 2, 4, 5, 6, 7, 9, 10, 12, 13

(1) A/C UNIT SHALL BE INTERNALLY WIRED AND FUSED FOR SINGLE MEANS OF DISCONNECT. PROVIDE SINGLE INTEGRAL MEANS OF OVER CURRENT PROTECTION FOR AIR HANDLER AND HEATER. PROVIDE ACCURATELY SIZED OVER CURRENT PROTECTION DEVICE TO MATCH THE NAMEPLATE RECOMMENDED MAX OVER CURRENT AMPERAGE RATING.
(2) UNIT SHALL HAVE THE FOLLOWING FACTORY INSTALLED OPTIONS: FILTER RACK, HINGED DOORS, HAIL GUARDS, ELECTRIC HEATER, MOTORIZED OUTSIDE AIR DAMPER, UN-POWERED CONVENIENCE OUTLET, AND THROUGH-THE-BASE ELECTRICAL.
(3) FOR THE 20-TON UNITS, PROVIDE MINIMUM 12" HIGH INSULATED ROOF CURB COMPATIBLE WITH ROOF WARRANTY. COORDINATE ALL MATERIALS AND DIMENSIONS INCLUDING HEIGHT WITH ARCHITECT'S PLANS AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN.
(4) PROVIDE PROGRAMMABLE THREE PHASE VOLTAGE MONITOR WITH 25 FAULT MEMORY (IMC CONTROLS IMC450A OR APPROVED EQUAL) ON ALL EQUIPMENT REQUIRING THREE PHASE ELECTRICAL.
(5) PROVIDE AIR PURIFICATION IONIZER AS SCHEDULED THIS SHEET.
(6) PROVIDE FACTORY CONTROLS WITH BACNET GATEWAYS TO ACCOMMODATE TIE INTO EXISTING JCI SYSTEM.
(7) PROVIDE FACTORY INSTALLED R-454B REFRIGERANT SENSOR WITH AUTOMATIC SHUTOFF.
(8) PROVIDE FACTORY SIDE RETURN AND SIDE SUPPLY OPTIONS.
(9) PROVIDE FACTORY BOTTOM RETURN AND BOTTOM SUPPLY OPTIONS.
(10) CONDENSATE DRAINS SHALL BE TYPE "L" HARD COPPER. PROVIDE BIG FOOT SYSTEMS ROOF SUPPORTS FOR CONDENSATE DRAIN PIPING.
(11) PROVIDE MODULATION HOT GAS REHEAT WITH HUMIDITY CONTROL. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT WITH BACNET INTEGRATION.
(12) PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT WITH BACNET INTEGRATION.
(13) FOR THE 5-TON UNIT, PROVIDE INSULATED CURB ADAPTER TO TRANSITION FROM EXISTING CURB DIMENSIONS (APPROX 88X38 - FIELD VERIFY) TO NEW A/C UNIT DIMENSIONS.

AIR HANDLING UNIT SCHEDULE

FAN							COOLING							HEATING									
NO.	SERVICE	MIN. C.F.M.	C.F.M. F.A.	EXT. S.P.	FAN H.P.	ELECTRIC SERVICE	MIN. B.T.U.H. OUTPUT	EVAP. TEMP. (°F)	AMB. TEMP. (°F)	ENT (°F) DB	ENT (°F) WB	LAT (°F) DB	LAT (°F) WB	MIN. B.T.U.H. OUTPUT	K.W. ELEC. STRIP MIN.	K.W. ELEC. STRIP MAX.	NO. STAGES	ENT. AIR (°F)	LEAV. AIR (°F)	ELECTRIC SERVICE	MCA	MOCP	REMARKS
AC-1	STORAGE/RESTROOMS	1950	160	0.65	1	208/1/60	60,000	45.0	95.0	73.8	62.3	55.1	54.0	49,200	14.4	--	2	66.3	89.6	208/1/60	95A	100A	TRANE MODEL 5TAM5D07A OR APPROVED EQUAL (1, 2, 3, 4, 5)

(1) A/C UNIT SHALL BE INTERNALLY WIRED AND FUSED FOR ONE MEANS OF DISCONNECT. PROVIDE SINGLE POINT CONNECTION KIT (TRANE BAYSPEKT200A).
(2) PROVIDE SINGLE INTEGRAL MEANS OF OVER CURRENT PROTECTION FOR AIR HANDLER AND HEATER. PROVIDE ACCURATELY SIZED OVER CURRENT PROTECTION DEVICE TO MATCH THE NAMEPLATE RECOMMENDED MAX OVER CURRENT AMPERAGE RATING.
(3) PROVIDE FACTORY INSTALLED R-454B (A2L) REFRIGERANT SENSOR WITH AUTOMATIC SHUTOFF.
(4) PROVIDE TRANE 7-DAY PROGRAMMABLE THERMOSTAT WITH NIGHT SETBACK.
(5) PROVIDE AND INSTALL BIPOLAR IONIZATION PER SCHEDULE THIS SHEET.

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT No	SERVICE	BTUH COOLING OUTPUT	EVAP TEMP	AMBIENT TEMP	ELECTRIC SERVICE	UNIT FLA	MCA	MOCP	S.E.E.R.	REFRIGERANT	REMARKS
CU-1	AC-1	60,000	45.0	95.0	208/3/60	16.9	20.9A	35A	14	R-454B	TRANE MODEL 5TTA4060 OR EQUAL APPROVED (1)

(1) PROVIDE HAIL GUARDS, RUBBER ISOLATOR KIT, AND ANTI-SHORT CYCLE TIMER.
(2) PROVIDE PROGRAMMABLE THREE PHASE VOLTAGE MONITOR WITH 25 FAULT MEMORY (IMC CONTROLS IMC450A OR APPROVED EQUAL) ON ALL EQUIPMENT REQUIRING THREE PHASE ELECTRICAL.

DUCTLESS HEAT PUMP SYSTEM SCHEDULE

SYSTEM	LOCATION	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	CFM	SEER2	HSPF2	INDOOR UNIT MCA	INDOOR UNIT MFS	OUTOOR UNIT MCA	OUTOOR UNIT RFS	OUTOOR UNIT MOCP	ELEC. SERVICE	REMARKS
AC-2 CU-2	108 DATA	24,291	20,036	--	810	22.6	--	1A	15A	22A	25A	37A	208-230/1/60	MITSUBISHI PLA-AE24NL/PUY-AH24NL OR APPROVED EQUAL (1, 2, 3)
AC-3 CU-3	110 CONCESSION	40,984	30,665	31,900	1,200	21	10.1	2A	15A	34A	35A	56A	208-230/1/60	MITSUBISHI PLA-AE42NL/PUZ-AK42NL OR APPROVED EQUAL (1, 2, 3)

(1) PROVIDE DELUXE HARDWIRED PROGRAMMABLE THERMOSTAT PAR-42MAAU WITH BACNET INTERFACE.
(2) CONTRACTOR SHALL VERIFY LINE LENGTHS DO NOT EXCEED MAXIMUMS PRIOR TO ROUGH-IN.
(3) PROVIDE FACTORY CONDENSATE PUMP AND CONDENSING UNIT STAND.

AIR PURIFICATION IONIZER SCHEDULE

No	SERVICE	CFM	REMARKS	NOTES
AP-1	RTU-1	8,000	PLASMA AIR MODEL PB-42 OR APPROVED EQUAL	(1, 2, 3)
AP-2	RTU-2	8,000	PLASMA AIR MODEL PB-42 OR APPROVED EQUAL	(1, 2, 3)
AP-3	RTU-3	1,950	PLASMA AIR MODEL PB-18 OR APPROVED EQUAL	(1, 2, 3)
AP-4	A/C-1	1,950	PLASMA AIR MODEL 7201 OR APPROVED EQUAL	(1, 2, 4)
AP-5	A/C-3	1,950	PLASMA AIR MODEL 602 OR APPROVED EQUAL	(1, 2, 5)

(1) INTERLOCK IONIZER WITH RESPECTIVE SUPPLY FAN.
(2) PROVIDE 24V AC INPUT. CONNECT TO A/C UNIT CONTROLS CIRCUIT.
(3) MOUNT IONIZER WITHIN UNIT PER MANUFACTURE'S INSTRUCTIONS WITH CONTROL PANEL.
(4) MOUNT IONIZER TO SUPPLY DUCTWORK UTILIZING PRE-DRILLED FLANGE AND FACTORY APPLIED GASKETS.
(5) MOUNT IONIZER INSIDE CEILING CASSETTE.

GRILLE SCHEDULE

SYMBOL	SIZE	SERVICE	LOCATION	FINISHED	REMARKS	
A	24"X24" / 6"Ø	SUPPLY	CEILING	WBE	TITUS TMS-3 OR APPROVED EQUAL	(1)
B	24"X24" / 8"Ø	SUPPLY	CEILING	WBE	TITUS TMS-3 OR APPROVED EQUAL	(1)
C	24"X24" / 10"Ø	SUPPLY	CEILING	WBE	TITUS TMS-3 OR APPROVED EQUAL	(1)
D	24"X24" / 12"Ø	SUPPLY	CEILING	WBE	TITUS TMS-3 OR APPROVED EQUAL	(1)
E	12"X12"	SUPPLY	DUCT	WBE	TITUS TDC-AA FRAME 6 OR APPROVED EQUAL	(2)
F	18"X8"	SUPPLY	DUCT	PRIME	TITUS 300FS WITH OBD OR APPROVED EQUAL	(3)
G	30"X8"	SUPPLY	DUCT	PRIME	TITUS DL WITH OBD OR APPROVED EQUAL	(3)
J	12"X12"	RETURN TRANSFER	SIDEWALL	PRIME	TITUS 350FL OR APPROVED EQUAL	(3)
K	24"X12"	RETURN	CEILING	WBE	TITUS 50F-3 OR APPROVED EQUAL	
L	24"X24"	RETURN	CEILING	WBE	TITUS 50F-3 OR APPROVED EQUAL	
N	54"W X 18"H	RETURN	SIDEWALL	PRIME	TITUS 63FL OR APPROVED EQUAL (HEAVY DUTY ALUMINUM)	(3)
P	18"W X 34"H	RETURN	SIDEWALL	PRIME	TITUS 63FL OR APPROVED EQUAL (HEAVY DUTY ALUMINUM)	(3)
Q	24"W X 30"H	RETURN	SIDEWALL	PRIME	TITUS 350FL OR APPROVED EQUAL	(3)

(1) PROVIDE INSULATION ON TOP OF DIFFUSER TAPED AT PERIMETER
(2) PROVIDE INSULATED SQUARE TO ROUND ADAPTER.
(3) GRILLES TO BE PAINTED IN FIELD BY PAINTING CONTRACTOR WITH COLOR AS DIRECTED BY ARCHITECT.

FAN SCHEDULE

No	SERVICE	MIN. CFM	EXT. SP	RPM	SONES	FAN HP	TYPE	DRIVE	ELECTRIC SERVICE	CONTROL	REMARKS	
EF-1	104 WOMEN'S RESTROOM	200	0.25"	1022	4.5	85W	CENT	DIRECT	120/1/60	(3)	COOK GC (CEILING) OR APPROVED EQUAL	(1, 2)
EF-2	103 MEN'S RESTROOM	150	0.25"	1093	3.0	53W	CENT	DIRECT	120/1/60	(3)	COOK GC (CEILING) OR APPROVED EQUAL	(1, 2)
EF-3	107 JANITOR	75	0.25"	808	1.1	32W	CENT	DIRECT	120/1/60	(3)	COOK GC (CEILING) OR APPROVED EQUAL	(1, 2)

(1) MOUNT S.S.S.C. ON FAN HOUSING AND BALANCE TO CFM SCHEDULED.
(2) FAN SHALL HAVE INTEGRAL BACKDRAFT DAMPER, W.B.E. GRILLE, AND MOUNTING BRACKETS.
(3) FAN SHALL BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR (LEVITON ODCOS-I1W OR APPROVED EQUAL) WITH 5 MINUTE TIMER SETTING INDEPENDENT OF THE LIGHTING CIRCUIT, 360° FIELD-OF-VIEW, INDICATOR LIGHT, AND PASSIVE INFRARED DETECTION. MECHANICAL CONTRACTOR SHALL PROVIDE OCCUPANCY SENSOR, INSTALLED BY ELECTRICAL CONTRACTOR (COORDINATE WITH ELECTRICAL CONTRACTOR). OCCUPANCY SENSOR SHALL BE INSTALLED IN AN UNOBSTRUCTED LOCATION.

HOOD SCHEDULE

No	SERVICE	CFM	THROAT SIZE	S.P. DROP	REMARKS
H-1	INTAKE AIR	160	12"X12"	0.02"	COOK MODEL GI OR APPROVED EQUAL (1,2)
H-2	EXHAUST AIR	350	12"X12"	0.02"	COOK MODEL GR OR APPROVED EQUAL (1,2)
H-3	EXHAUST AIR	75	12"X12"	0.02"	COOK MODEL GR OR APPROVED EQUAL (1,2)

(1) PROVIDE INSULATED ROOF CURB AND BIRD SCREEN. TRANSITION DUCT TO HOOD INLET SIZE.
(2) SECURE HOOD TO ROOF DECK. PROVIDE HURRICANE TIE-DOWN CABLES TO SECURE HOOD TO ROOF CURB.

BUILDING PRESSURE SCHEDULE

ITEM	OA (CFM)	RA (CFM)	SA (CFM)	EA (CFM)	PRESSURE (CFM)
RTU-1	675	5,325	6,000	--	+675
RTU-2	675	5,325	6,000	--	+675
RTU-3	200	1,750	1,950	--	+200
AC-1	160	1,790	1,950	--	+160
EF-1	--	--	--	200	-200
EF-2	--	--	--	150	-150
EF-3	--	--	--	75	-75
TOTAL BUILDING PRESSURE	1,710	--	--	425	+1,285

GENERAL HVAC NOTES:

A. ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL CODES TO THE SATISFACTION OF CODE AUTHORITIES HAVING JURISDICTION.

B. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 90A & 101, THE CLEAN AIR ACT AND THE AMERICANS WITH DISABILITIES ACT.

C. COORDINATE ALL CEILING DEVICES, DUCTWORK, ETC. WITH LIGHTING, STRUCTURE, ETC. THROUGH GENERAL CONTRACTOR. REFER TO ALL DRAWINGS, (STRUCTURAL, PLUMBING, ELECTRICAL, ARCHITECTURAL, ETC.). NOTIFY ARCHITECT/ENGINEER CONCERNING ANY CONFLICTS NOTED PRIOR TO BIDS FOR CLARIFICATION TO THE SATISFACTION OF THE BIDDER. REFER TO SPECIFICATIONS FOR REQUIREMENTS. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE ALL CEILING DEVICE LOCATIONS WITH CEILING GRID.

D. UNLESS SPECIFICALLY NOTED, ALL SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST AIR DUCTWORK SHALL BE UNLINED AND WRAP DUCTWORK EXTERNALLY.

E. HARDCAST ALL DUCTWORK JOINTS FOR AIRTIGHT SYSTEM. REFER TO DETAILS FOR DUCTWORK TAP, SPLITTER, BRANCH CONFIGURATION, ETC. INSTALL IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND INSTALLATION GUIDELINES.

F. VERIFY ALL OUTSIDE AIR INTAKES ARE A MINIMUM OF TEN FEET FROM EXHAUST OUTLETS, SEWER VENTS, ETC

G. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN "AUTO" MODE.

H. MECHANICAL CONTRACTOR SHALL COORDINATE THROUGH GENERAL CONTRACTOR TO PROVIDE OPENINGS FOR DUCTWORK IN WALLS, NEW AND EXISTING, THAT EXTEND FULL HEIGHT ABOVE LAY-IN CEILINGS.

I. CONTRACTOR SHALL SEAL ALL PIPING AND DUCT PENETRATIONS THROUGH WALLS AND FLOORS AS PER THE RATED UL DESIGNATION'S REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR ALL UL RATINGS.

J. PROVIDE ACCESS PANELS PER SPECIFICATIONS TO ACCESS ALL DEVICES REQUIRING MAINTENANCE/ADJUSTMENT WHERE NECESSARY. COORDINATE WITH ARCHITECTURAL FINISH SCHEDULE.

K. ACCESS PANELS THAT ARE INSTALLED IN EXPOSED AREAS SHALL BE FACTORY PRIMED AND FIELD PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

L. CONTRACTOR SHALL CAP AND SEAL ALL DUCTWORK DURING CONSTRUCTION TO PREVENT CONTAMINATION DUE TO CONSTRUCTION DEBRIS.

M. CONTRACTOR SHALL REFER TO ALL ARCHITECTURAL DRAWINGS FOR PHASING.

N. ALL DAMPERS, ACCESS PANELS, ETC SHALL BE INSTALLED FOR MAXIMUM ACCESSIBILITY.

O. REVIEW COMPLETE SET OF CONTRACT DOCUMENTS PRIOR TO SUBMITTING BID.

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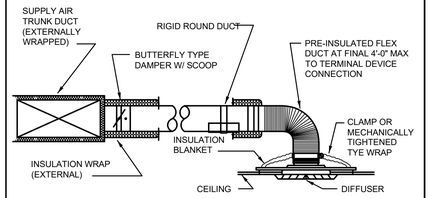
STATE OF LOUISIANA
HERBERT R. ALEXANDER, III
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PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
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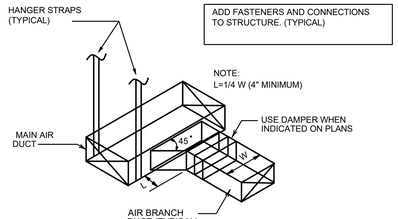
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PRINT DATE
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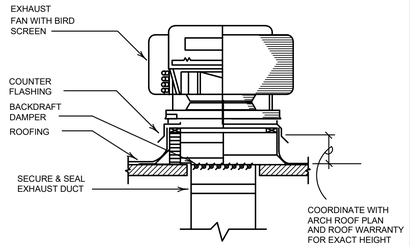


1 DIFFUSER/DUCT INSTALL DETAIL
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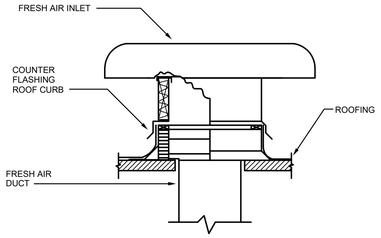


NOTE: ALL JOINTS SHALL BE SEALED WITH IRON GRIP (FTA-20) AND TAPED WITH DT-5300 HARD CAST TAPE.

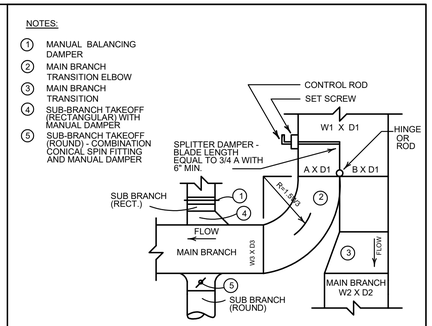
2 AIR DUCT CONNECTION DETAIL
NO SCALE



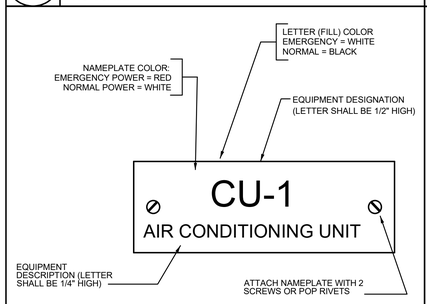
3 EXHAUST FAN DETAIL
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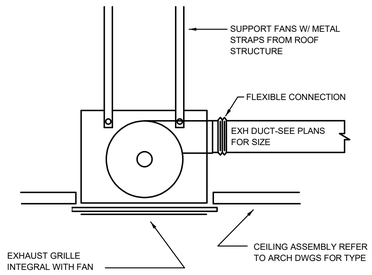
4 ROOF MOUNTED FRESH/EXHAUST AIR HOOD DETAIL
NO SCALE



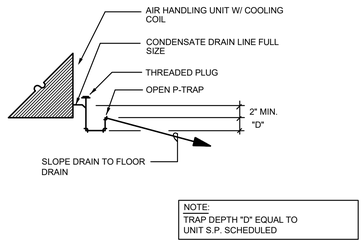
5 DAMPER DETAIL
NO SCALE



6 PLASTIC LAMINATE NAME PLATE DETAIL
NO SCALE

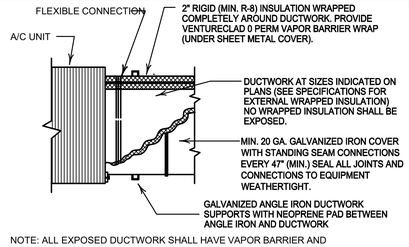


7 CEILING MOUNTED EXHAUST FAN DETAIL
NO SCALE



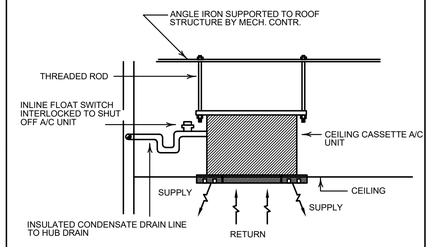
NOTE:
TRAP DEPTH "D" EQUAL TO UNIT S.P. SCHEDULED

8 AIR HANDLING UNIT DRAIN PIPING DIAGRAM
NO SCALE

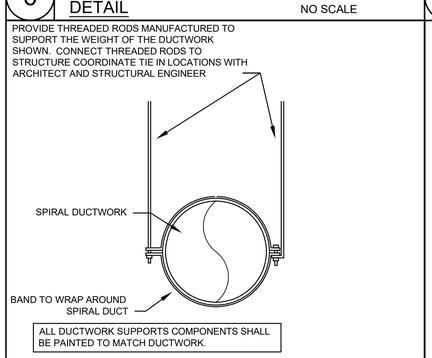


NOTE: ALL EXPOSED DUCTWORK SHALL HAVE VAPOR BARRIER AND WEATHERPROOF SEALANT.
NOTE: SUPPLY AND RETURN EXTERIOR DUCTWORK SHALL HAVE PAINT GRIP FINISH. DUCTWORK SHALL BE PAINTED BY PAINTING CONTRACTOR COLOR AS DIRECTED BY ARCHITECT.

9 EXTERIOR DUCTWORK INSTALLATION DETAIL
NO SCALE

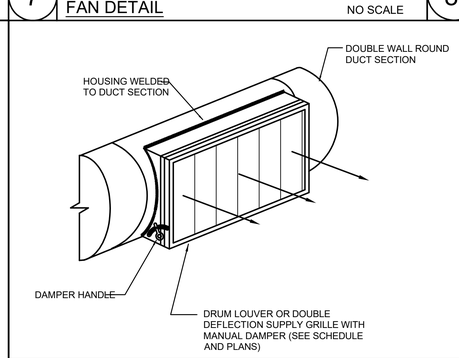


10 CEILING CASSETTE A/C DIAGRAM
NO SCALE

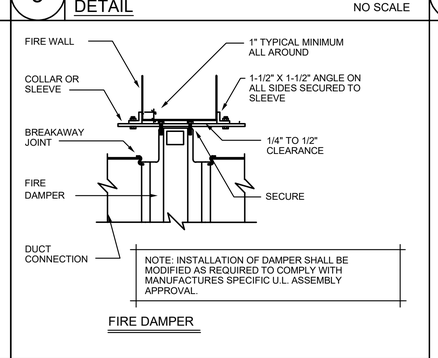


ALL DUCTWORK SUPPORTS COMPONENTS SHALL BE PAINTED TO MATCH DUCTWORK.

11 SPIRAL DUCT SUPPORT DETAIL
NO SCALE



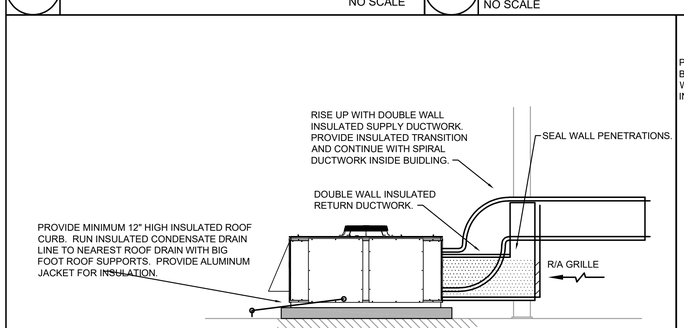
12 ROUND DUCT SIDEWALL REGISTER DETAIL
NO SCALE



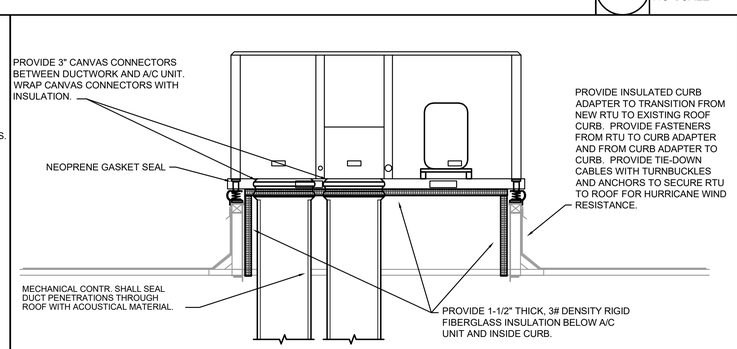
NOTE: INSTALLATION OF DAMPER SHALL BE MODIFIED AS REQUIRED TO COMPLY WITH MANUFACTURES SPECIFIC U.L. ASSEMBLY APPROVAL.

FIRE DAMPER

13 FIRE DAMPER INSTALLATION DETAIL
NO SCALE



14 RTU-1 & 2 INSTALLATION DETAIL
NO SCALE



15 RTU-3 INSTALLATION DETAIL
NO SCALE

Mechanical Details

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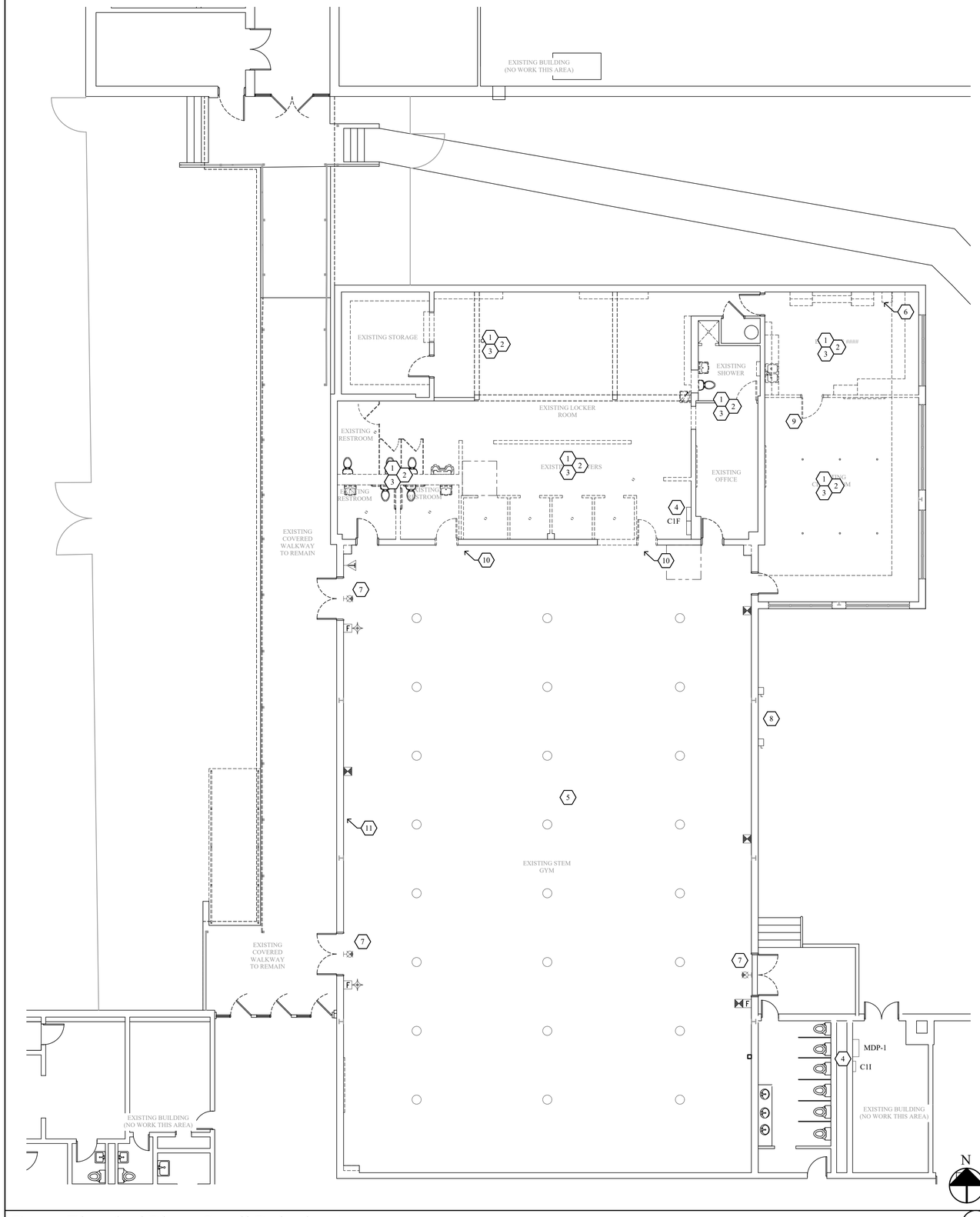
C.E.H. PROJECT NUMBER
2401

STATE OF LOUISIANA
HERBERT R. ALEXANDER, III
LICENSE No. 30775
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

CHAMPEAUX EVANS HOTARD, APAC
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M3.1

PRINT DATE
10/08/2026



Demo Electrical Plan - Small Robotics Arena

SCALE: 3/32"=1'-0" (1)

A. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. EXISTING CONDITIONS, UTILITIES, SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, EXISTING CONSTRUCTION DOCUMENTS AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING, AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER, MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID, AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.

B. EXISTING OUTLET BOXES AND CONDUIT WHICH ARE LOCATED PROPERLY FOR NEW WORK MAY BE REUSED FOR NEW DEVICES.

C. ALL CONDUIT AND WIRE REMOVED SHALL BE TAKEN BACK TO THE SOURCE OF SUPPLY.

D. INSTALL A BLANK COVER PLATE ON ALL EMPTY DEVICE BOXES.

E. WHERE EXISTING EQUIPMENT OR MATERIALS ARE REMOVED OR CHANGED, ALL BRANCH CONDUITS, WHICH NO LONGER ARE IN SERVICE, SHALL BE REMOVED AS DIRECTED BY THE ARCHITECT. IF, IN THE COURSE OF THE WORK, OUTLETS ARE COVERED UP OR OTHERWISE RENDERED INACCESSIBLE, ALL WIRING TO SAME SHALL BE REMOVED TO THE SOURCE. IF A CIRCUIT THAT MUST REMAIN IN SERVICE IS INTERRUPTED THEREBY, IT SHALL RECONNECTED BY THE MOST INCONSPICUOUS MEANS SO AS TO REMAIN OPERATION, WITH SAME CAPACITY AS BEFORE. ALL BUILDING SURFACES DAMAGED, AND OPENINGS LEFT BY REMOVAL OF BOXES, PIPING OR OTHER EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. ALL HOLES LEFT IN JUNCTION BOXES, SWITCHES, PANELS, ETC. SHALL BE CLOSED.

F. WHERE NEW OPENINGS ARE CUT, AND CONCEALED CONDUITS, ETC., ARE ENCOUNTERED, THEY SHALL BE REMOVED OR RELOCATED AS REQUIRED. WHERE CONDUIT TO BE REMOVED STUBS THROUGH FLOORS, WALLS, AND CEILINGS, SUCH CONDUIT SHALL BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.

G. ALL REUSABLE DEVICES, FIXTURES AND EQUIPMENT SHALL BECOME THE PROPERTY OF THE OWNER. ALL OTHER SALVAGE AND DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY BY THIS CONTRACTOR.

H. THIS CONTRACTOR SHALL FURNISH AND PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE THIS PROJECT WHETHER INDICATED ON DRAWINGS, OR DIRECTED IN THE FIELD.

I. VISIT THE JOB SITE PRIOR TO BID TO VERIFY ALL ACTUAL CONDITIONS.

J. REMOVE EXISTING SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT. REINSTALL ANY SUCH SYSTEMS, MATERIALS AND EQUIPMENT WHICH IS REQUIRED TO COMPLETE THE PROJECT.

K. LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE.

L. REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.

M. ALL RECEPTACLES, DEVICES, LIGHTING, SYSTEMS AND EQUIPMENT NOT SHOWN, AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. FURNISH AND INSTALL ACCESSIBLE JUNCTION BOXES AND REWORK EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO RECEPTACLES, DEVICES, LIGHTING, SYSTEMS AND EQUIPMENT.

N. ALL CONDUIT TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED STRUCTURAL CEILINGS, BUILDING EXTERIOR WALLS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR WITHIN WALLS AND COUNTERS.

O. ALL NEW DEVICES TO BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE.

P. INSTALL FLEXIBLE CONDUIT DOWN EXISTING WALLS TO NEW FLUSH OUTLETS. (IF EXISTING WALLS DO NOT CONTAIN HOLLOW VERTICAL CAVITIES AND IT IS NOT FEASIBLE TO CONCEAL THE CONDUIT, THEN EXPOSED WIREMOLD PAINTED TO MATCH THE WALL SHALL BE USED).

Q. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

R. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

S. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES.DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR OPEN JUNCTION BOXES.DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.

T. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.

U. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.

V. ALL NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MANUFACTURER TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD.

W. SCREENED ELECTRICAL INDICATES EXISTING TO REMAIN ACTIVE, UNLESS NOTED OTHERWISE.

X. CLEAN, INSTALL NEW BALLAST AND RE-LAMP ALL EXISTING FLUORESCENT FIXTURES AND DIFFUSERS BEING REUSED. MATCH EXISTING LAMP, COLOR TEMPERATURE, SIZE, AND TYPE.

Y. CONTRACTOR SHALL MAINTAIN FIRE ALARM PROTECTION DURING CONSTRUCTION. REUSE EXISTING DEVICES PER REVISED PLAN. PROVIDE AND INSTALL NEW DEVICES AS NECESSARY. ANY UNUSED EXISTING DEVICES SHALL BE TURNED OVER TO THE OWNER.

Z. EXISTING DATA WIRE BEING REMOVED AS PART OF DEMOLITION, WHICH IS IN WORKING CONDITION MAY BE RE-USED FOR NEW DATA LOCATIONS. CONTRACTOR SHALL VERIFY RE-USED DATA WIRING IS IN GOOD WORKING CONDITION PRIOR TO INSTALLATION AND PROVIDE NEW MATCHING DATA WIRING WHERE NECESSARY.

Electrical General Notes (2)

1. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL LIGHTING IN THE EXISTING SPACES INDICATED. LIGHTING CONTROL DEVICES SHALL BE REMOVED ENTIRELY.
2. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL SPECIAL SYSTEM DEVICES (FIRE ALARM, CAMERAS, ACCESS CONTROL, DATA OUTLETS, ETC.) FROM EXISTING SPACES TO BE RENOVATED. CABLING TO BE REMOVED BACK TO SUPPLY SOURCE. DEVICES REMOVED WHICH ARE TO BE IN WORKING CONDITION SHALL BE RETURNED TO THE OWNER FOR THE FIRST RIGHT OF REFUSAL.
3. CONTRACTOR SHALL DISCONNECT AND REMOVE POWER DEVICES (RECEPTACLES, JUNCTION BOXES, DISCONNECTS, ETC.) FROM EXISTING SPACES TO BE RENOVATED.
4. ELECTRICAL PANEL TO REMAIN.
5. EXISTING GYM HIGH BAY LIGHTING TO REMAIN.
6. CONTRACTOR SHALL DISCONNECT AND RELOCATE EXISTING NETWORK RACK TO NEW DATA ROOM 108. PULL NEW FIBER RUN MULTI-MODE OM2 12-STRAND. VERIFY IN FIELD.
7. DISCONNECT AND REMOVE EXISTING WALL MOUNTED EMERGENCY LIGHTS ABOVE EXIT SIGNS.
8. REMOVE ELECTRICAL DEVICES, MATERIALS, ACCESSORIES, ETC. FROM MECHANICAL EQUIPMENT. REMOVE ELECTRICAL BACK TO SUPPLY SOURCE.
9. DISCONNECT AND REMOVE ELECTRICAL MATERIALS, GEAR, ACCESSORIES ASSOCIATED WITH ROOF MOUNTED MECHANICAL EQUIPMENT. ELECTRICAL SHALL BE REMOVED BACK TO SUPPLY SOURCE.
10. DISCONNECT AND REMOVE ELECTRICAL MATERIALS, GEAR, ACCESSORIES ASSOCIATED WITH WALL MOUNTED FAN EQUIPMENT. ELECTRICAL SHALL BE REMOVED BACK TO SUPPLY SOURCE.
11. DISCONNECT AND REMOVE ELECTRICAL MATERIALS, GEAR, ACCESSORIES ASSOCIATED WITH WALL MOUNTED MOTORIZED DAMPERS. ELECTRICAL SHALL BE REMOVED BACK TO SUPPLY SOURCE.

Electrical Demo Keynotes (3)

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STEM Gymnasium Improvements at the Region 5 STEM Center

For The Calcasieu Parish School Board

1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

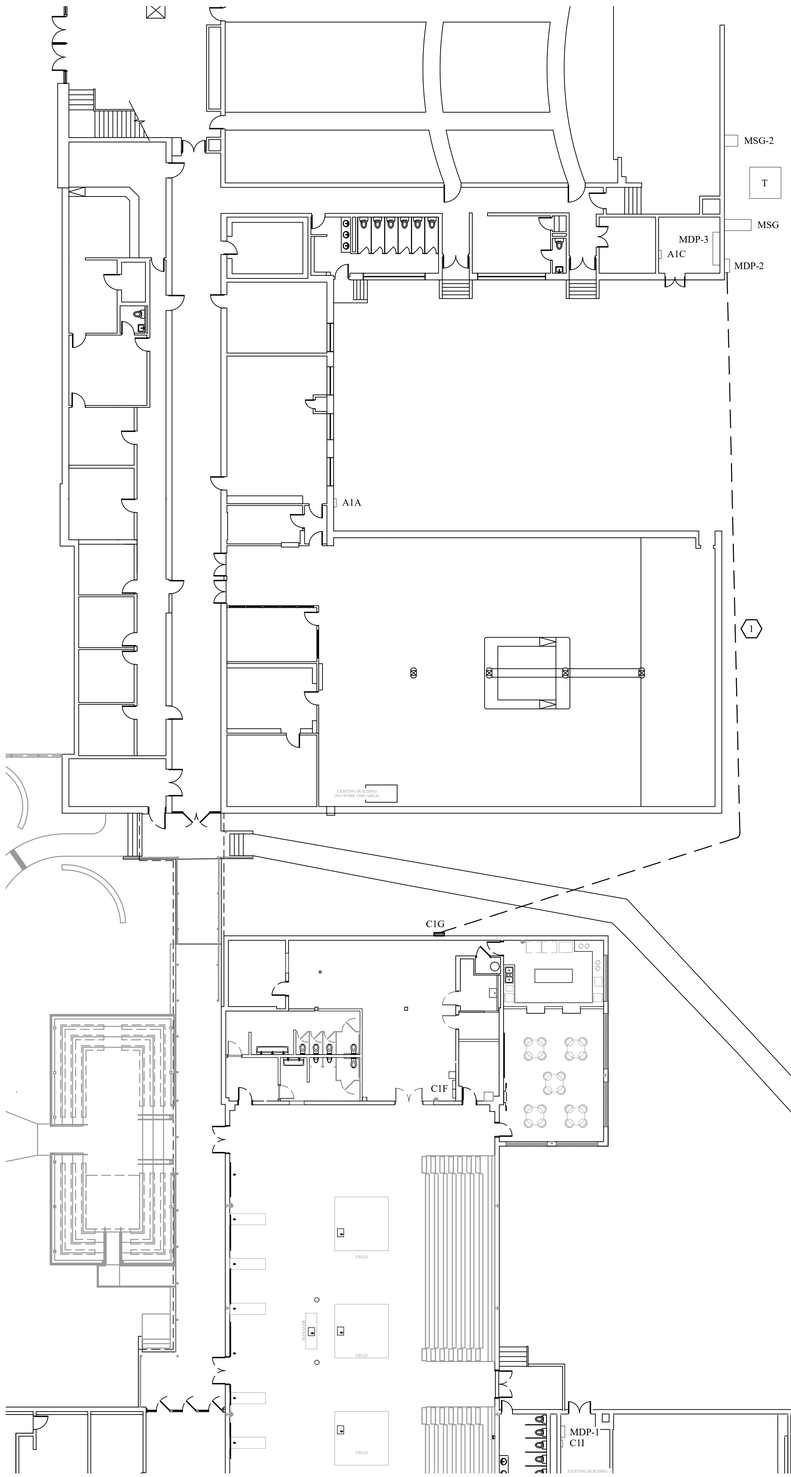
STATE OF LOUISIANA
DAVID B. STELLY
License No. 26070
10/06/2026
PROFESSIONAL ENGINEER

CHAMPEAUX EVANS HOTARD, APAC

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E1.0

PRINT DATE
10/08/2026



Overall Electrical Plan

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

1

1 CONTRACTOR SHALL INSTALL UNDERGROUND 2 SETS OF 3" CONDUIT FROM MDP-2 TO APPROXIMATE LOCATION INDICATED FOR NEW PANEL C1G FEEDER. RUN 4-350KCMIL IN EACH RACEWAY. CONTRACTOR SHALL INSTALL NEW 3p600A BREAKER IN PANEL MDP-2.

Electrical Keynotes

4

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E1.1

PRINT DATE
10/08/2026



Lighting Plan - Small Robotics Arena

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

1

Electrical General Notes

3

A. CONTRACTOR SHALL REFER TO ALL OTHER PORTIONS OF THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, ADDENDA, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS AND ANY APPROVED CHANGE ORDERS) AND PROVIDE ALL LIGHT FIXTURES, OUTLETS, TELE/DATA OUTLETS, SPEAKERS, AND ASSOCIATED CIRCUITRY AS IF ORIGINALLY INCLUDED ON THE ELECTRICAL PLANS. IF THERE ARE ANY DISCREPANCIES, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN WRITING PRIOR TO ORDERING EQUIPMENT, ROUGH-IN FOR EQUIPMENT AND/OR INSTALLATION OF EQUIPMENT. PRIOR TO ROUGH-IN OF EQUIPMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT AND REVIEWING SAID SUBMITTALS TO ENSURE COMPATIBILITY WITH THE ELECTRICAL SYSTEM. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE REQUIRED ROUGH-IN REQUIREMENTS AND THE ELECTRICAL SYSTEM.

B. VERIFY EXACT MOUNTING HEIGHT OF ALL WALL MOUNTED FIXTURES W/ARCHITECT/OWNER PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECTURAL REFLECTED CEILING FOR ALL CEILING MOUNTED DEVICES.

D. CONTRACTOR SHALL PROPERLY SEAL PENETRATIONS TO RATED ASSEMBLIES AND ALL EXTERIOR WALLS TO PROPERLY MAINTAIN RATING & ASSEMBLIES AND BUILDING ENVELOPE.

E. CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NEUTRALS SHALL NOT BE SHARED.

F. AS A MINIMUM ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.

G. REFER TO ELECTRICAL DIVISION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

H. VERIFY REQUIREMENTS FOR ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

I. ALL EXIT SIGNS SHALL BE 'UNSWITCHED'.

J. EXTERIOR LIGHTING CONTROLLED VIA PHOTOCELL.

K. SUBSCRIPTS AT LIGHT FIXTURE DESIGNATIONS DENOTE SWITCHING SCHEME.

L. ALL LIGHTING CONTROLS SHALL MEET OR EXCEED REQUIREMENTS DEFINED IN IECC 2021 SECTION C405.

L. ALL HATCHED FIXTURES AND EXIT SIGNS SHALL INCLUDE AN INTEGRAL EMERGENCY BATTERY PACK PROVIDING A MINIMUM OF 90 MINUTE RUN TIME.

Electrical Keynotes

4

1. LIGHTING IN THIS SPACE SHALL BE WIRED TO CIRCUIT INDICATED.
2. CONTRACTOR SHALL PROVIDE AND INSTALL OUTDOOR RATED 84" FAN (BIG ASS FANS MAMMOTH OR APPROVED EQUIVALENT) AT APPROXIMATE LOCATION. CONTRACTOR SHALL PROVIDE MOUNTING HARDWARE FOR FAN INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ARCHITECT/OWNER FOR CONTROL LOCATION PRIOR TO ROUGH-IN. OUTDOOR FAN SHALL BE WIRED TO LIGHTING CIRCUIT FOR THIS AREA. CONTROLS FOR FAN AND LIGHTS SHALL BE SEPARATE.
3. PHOTOCELL MOUNTED 6" ABOVE TOP OF CANOPY. PHOTOCELL SHALL CONTROL TYPE V LIGHTING UNDER NEW CANOPY.
4. CONNECT TYPE 'Y' FIXTURES TO GYM LIGHTING CIRCUIT. FIXTURES SHALL BE UNSWITCHED.
5. CONTRACTOR TO DISCONNECT AND REMOVE EXISTING LIGHT POLE. REPLACE WITH NEW. CONNECT NEW LIGHT POLE TO EXISTING CIRCUITRY.
6. LIGHT FIXTURE 'S' SHALL BE SUSPENDED 9'-0" AFF TO BOTTOM OF FIXTURE. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT AND COORDINATE WITH MECHANICAL CONTRACTOR TO AVOID DUCTWORK CONFLICTS PRIOR TO ROUGH-IN.

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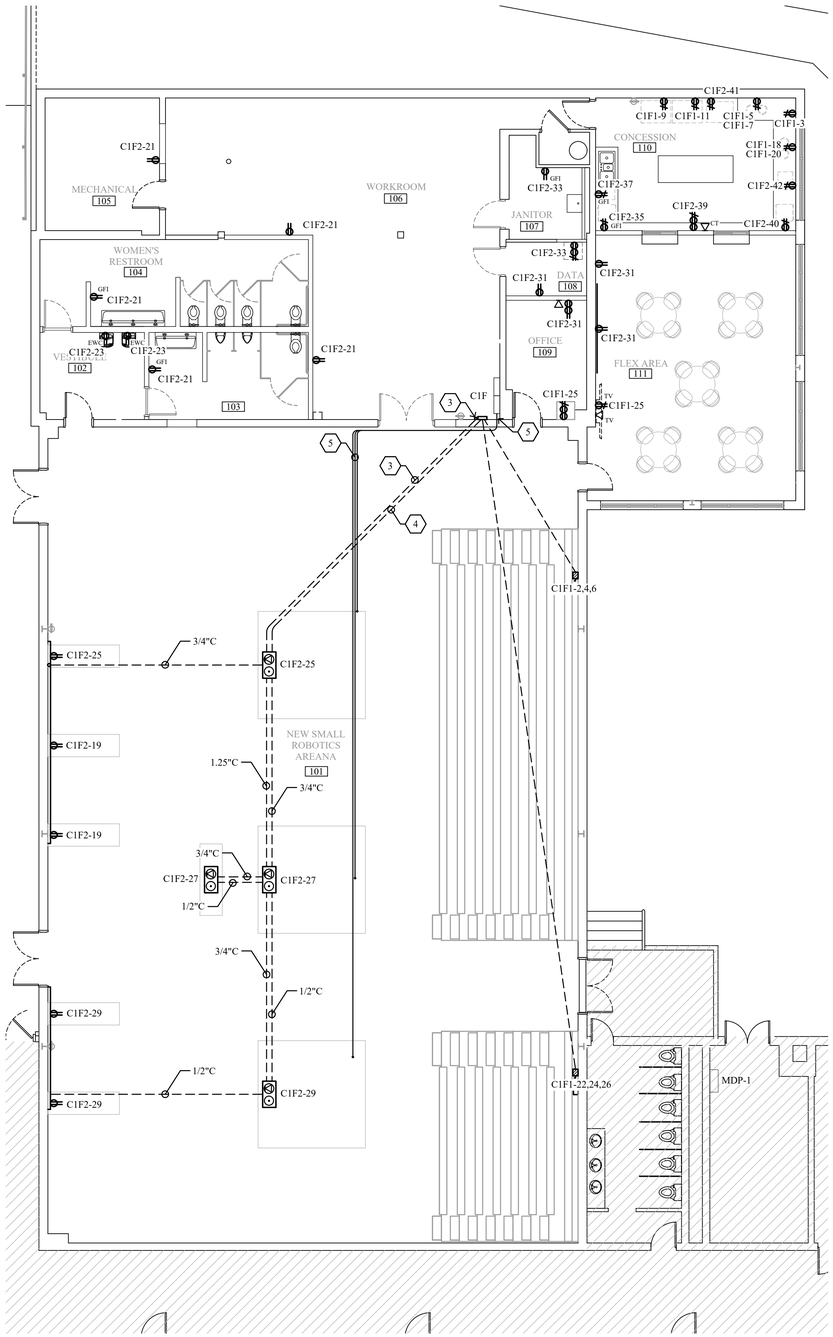
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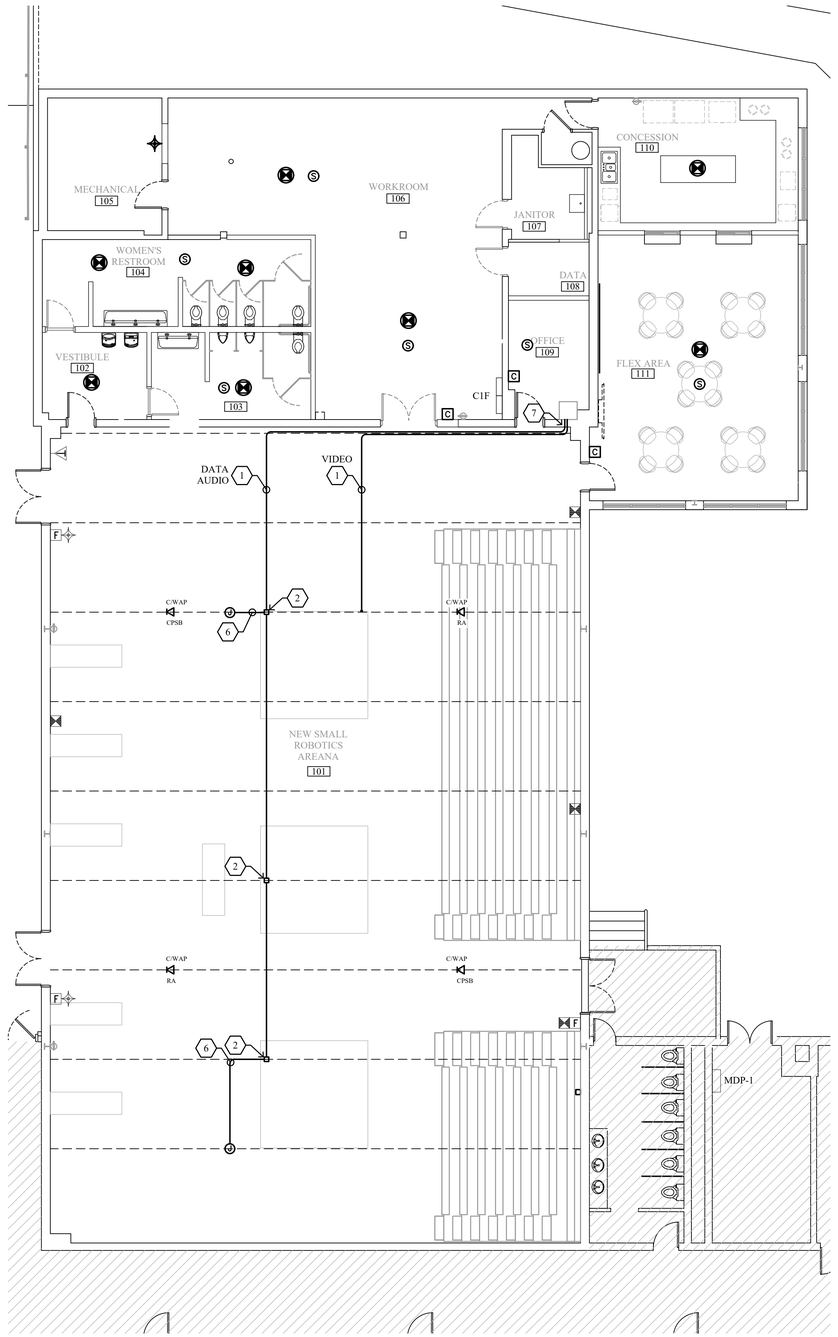
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E2.1

PRINT DATE
10/08/2026



Power Plan - Small Robotics Arena — SCALE: 1/8" = 1' — 1



Special Systems Plan - Small Robotics Arena — SCALE: 1/8" = 1' — 2

Electrical General Notes — 4

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B. ALL 120V 15A & 20A RECEPTACLES SHALL BE TAMPER-RESISTANT AS REQUIRED BY NEC.

C. COORDINATE EXACT PLACEMENT FOR ALL DEVICES WHERE MILLWORK IS PRESENT PRIOR TO ROUGH-IN. DO NOT ROUGH-IN BEHIND CABINETS, DRAWERS, ETC RENDERING DEVICE UNUSABLE.

D. CONTRACTOR SHALL PROPERLY SEAL PENETRATIONS TO RATED ASSEMBLIES AND ALL EXTERIOR WALLS TO PROPERLY MAINTAIN RATING & ASSEMBLIES AND BUILDING ENVELOPE.

E. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING ANY WORK TO BE DONE.

F. AS A MINIMUM ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2026 EDITION OF THE NATIONAL ELECTRICAL CODE.

G. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

H. RECEPTACLES WITHIN 6' OF A SINK OR LAVATORY SHALL HAVE GFCI PROTECTION.

I. ALL 120V 15A & 20A RECEPTACLES IN FOOD PREP AREAS SHALL BE GFCI PROTECTED AS REQUIRED BY NEC.

J. ALL NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MANUFACTURER TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD.

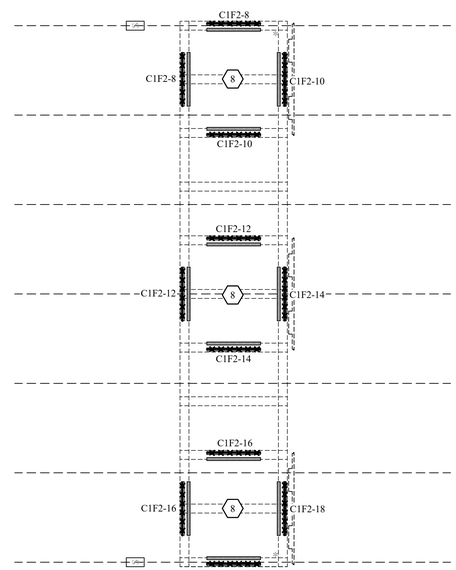
K. VERIFY REQUIREMENTS FOR ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

L. REFER TO ARCHITECTURAL REFLECTED CEILING FOR ALL CEILING MOUNTED DEVICES. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.

M. CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NEUTRALS SHALL NOT BE SHARED.

Electrical Keynotes — 5

1. CONTRACTOR SHALL RUN 2" CONDUIT FROM ARENA A/V RACK ABOVE IN CEILING BAR JOISTS FOR CABLING. PROVIDE 6"x6" JUNCTION BOX AT EACH SUSPENDED TRUSS SECTION FOR CABLE ROUTING.
2. CONTRACTOR SHALL INSTALL 1" CONDUIT FROM JUNCTION BOX DOWN TO SUSPENDED TRUSS FOR ARENA CABLE ROUTING.
3. CONTRACTOR SHALL INSTALL 2" CONDUIT FROM ARENA A/V RACK ABOVE CEILING THEN TRANSITION UNDERGROUND AT THIS LOCATION FOR ETHERNET CABLE ROUTING TO FLOOR BOXES.
4. CONTRACTOR SHALL INSTALL (2) 3/4" CONDUIT FROM PANEL C1F TRANSITIONING UNDERGROUND FOR CIRCUITRY ROUTING TO FLOOR BOXES AND WALL OUTLETS.
5. CONTRACTOR SHALL INSTALL (2) 1/2" CONDUITS AND (1) 3/4" CONDUIT OVERHEAD FOR POWER CIRCUITS ON SUSPENDED TRUSS. CONDUITS SHALL PENETRATE CMU VIA LB ABOVE WORKROOM 106 CEILING BACK TO PANEL C1F.
6. CONTRACTOR SHALL INSTALL 1" CONDUIT FROM SPEAKER LOCATION TO JUNCTION BOX INDICATED.
7. CONDUIT SHALL PENETRATE CMU WALL ABOVE OFFICE 109 CEILING AS HIGH AS POSSIBLE WITHLBs.
8. PLUGMOLD (TO CONTAIN MINIMUM 4 RECEPTACLES) SHALL BE MOUNTED TO TRUSS STRUCTURE. CONTRACTOR SHALL NOTE MC CABLE IS PERMITTED FOR CIRCUITRY. ARMORED CABLE AND CONDUIT SHALL BE PAINTED/COLORED TO MATCH SUSPENDED TRUSS.



Suspended Arena Rigging — SCALE: 1/8" = 1' — 3

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board
1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

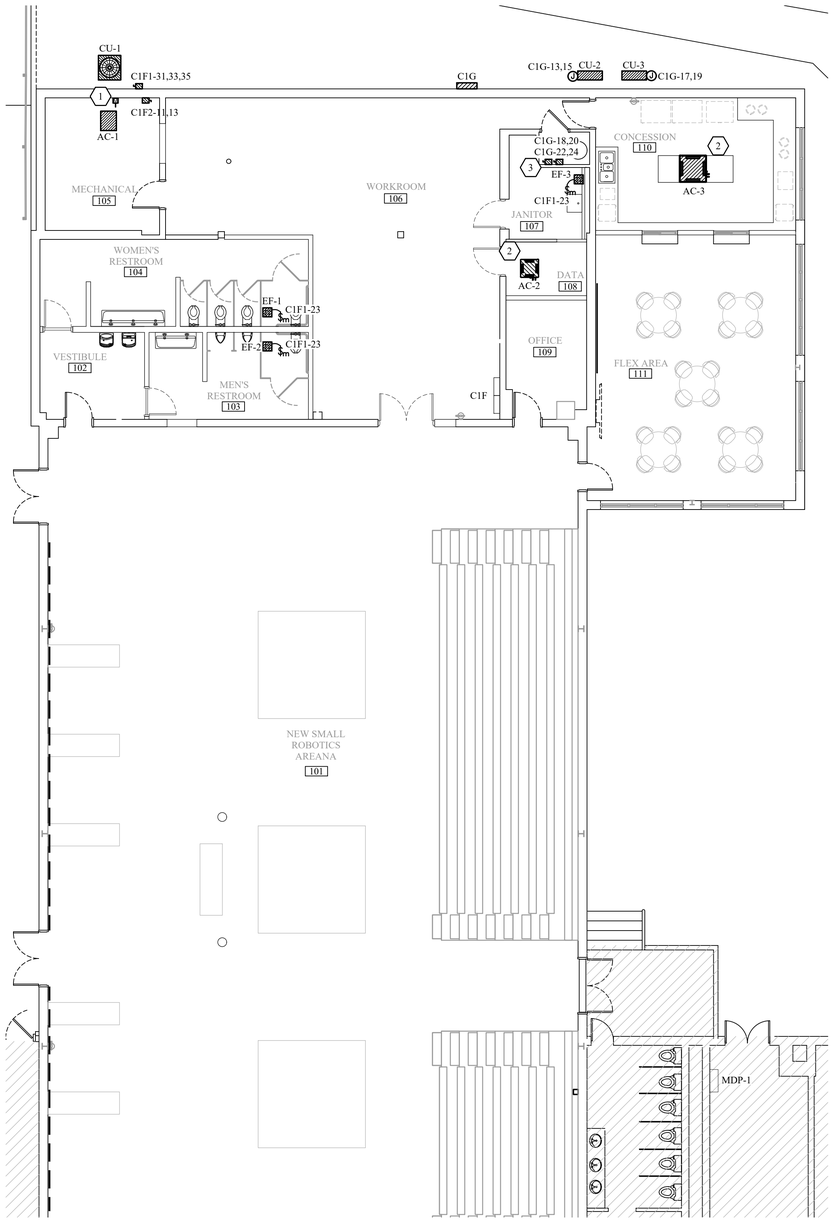
STATE OF LOUISIANA
DAVID B. STELLY
License No. 26070
10/06/2026
PROFESSIONAL ENGINEER

CHAMPEAUX EVANS HOTARD, APAC

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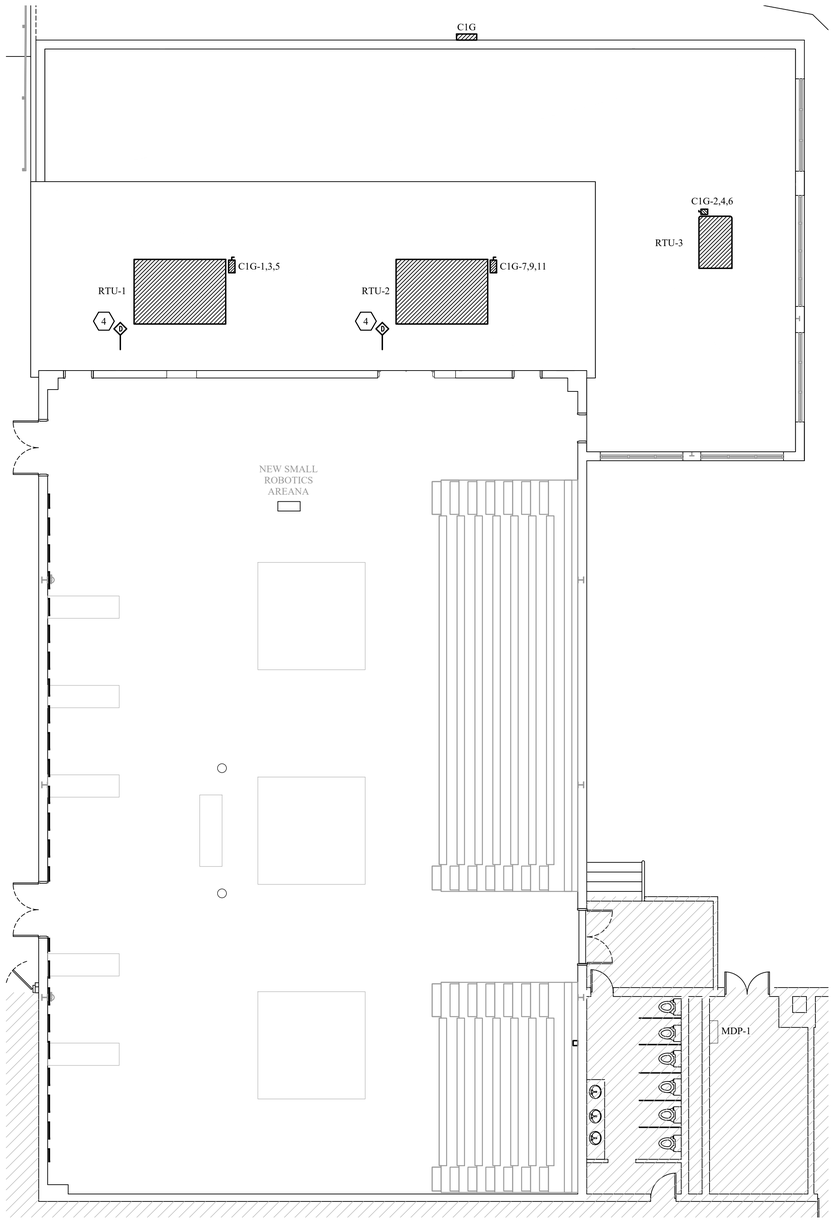
E3.1

PRINT DATE
10/08/2026



New Electrical Plan - Small Robotics Arena

SCALE: ############ 1



New Upper Electrical Plan - Small Robotics Arena

SCALE: 1/8" = 1'-0" 2

A. CONTRACTOR SHALL REFER TO ALL OTHER PORTIONS OF THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, ADDENDA, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS AND ANY APPROVED CHANGE ORDERS) AND PROVIDE ALL LIGHT FIXTURES, OUTLETS, TELE/DATA OUTLETS, SPEAKERS, AND ASSOCIATED CIRCUITRY AS IF ORIGINALLY INCLUDED ON THE ELECTRICAL PLANS. IF THERE ARE ANY DISCREPANCIES, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN WRITING PRIOR TO ORDERING EQUIPMENT, ROUGH-IN FOR EQUIPMENT AND/OR INSTALLATION OF EQUIPMENT. PRIOR TO ROUGH-IN OF EQUIPMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT AND REVIEWING SAID SUBMITTALS TO ENSURE COMPATIBILITY WITH THE ELECTRICAL SYSTEM. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE REQUIRED ROUGH-IN REQUIREMENTS AND THE ELECTRICAL SYSTEM.

B. COORDINATE INSTALLATION OF ALL CEILING MOUNTED DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

C. COORDINATE EXACT PLACEMENT FOR ALL DEVICES WHERE MILLWORK IS PRESENT PRIOR TO ROUGH-IN. DO NOT ROUGH-IN BEHIND CABINETS, DRAWERS, ETC RENDERING DEVICE UNUSABLE.

D. CONTRACTOR SHALL PROPERLY SEAL PENETRATIONS TO RATED ASSEMBLIES AND ALL EXTERIOR WALLS TO PROPERLY MAINTAIN RATING & ASSEMBLIES AND BUILDING ENVELOPE.

E. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING ANY WORK TO BE DONE.

F. AS A MINIMUM ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2026 EDITION OF THE NATIONAL ELECTRICAL CODE.

G. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

H. RECEPTACLES WITHIN 6' OF A SINK OR LAVATORY SHALL HAVE GFCI PROTECTION.

I. ALL 120V 15A & 20 RECEPTACLES IN FOOD PREP AREAS SHALL BE GFCI PROTECTED AS REQUIRED BY NEC.

J. ALL NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MANUFACTURER TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD.

K. VERIFY REQUIREMENTS FOR ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

L. EXHAUST FANS CONTROLLED VIA OCCUPANCY SENSOR (PROVIDED BY MECHANICAL; INSTALLED BY ELECTRICAL). REFER TO MECHANICAL PLANS AND COORDINATE WITH MECHANICAL.

M. REFER TO ARCHITECTURAL REFLECTED CEILING FOR ALL CEILING MOUNTED DEVICES.

N. CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NEUTRALS SHALL NOT BE SHARED.

Electrical General Notes 3

1. MOTORIZED DAMPER. CONNECT TO NEAREST 120V UNSWITCHED CIRCUIT.
2. CONTRACTOR SHALL PROVIDE ALL CONTROL POWER/WIRING RACEWAY BETWEEN CU AND AC AS REQUIRED BY MINI-SPLIT MANUFACTURER. INDOOR UNIT IS POWERED BY OUTDOOR UNIT.
3. HOT WATER CIRCULATING PUMP. CONTRACTOR TO PROVIDE RECEPTACLE FOR PUMP POWER. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT PUMP LOCATION PRIOR TO ROUGH-IN. WIRE RECEPTACLE TO CIRCUIT C1F1-23.
4. CONTRACTOR SHALL PROVIDE AND INTEGRATE SUPPLY AND RETURN DUCT DETECTORS INTO BUILDING FIRE ALARM SYSTEM FOR RTU-1/2.

Electrical Keynotes 4

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E3.2

PRINT DATE
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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING FIXTURE - SEE FIXTURE SCHEDULE
	LIGHTING FIXTURE - SEE FIXTURE SCHEDULE
	EXIT SIGN FIXTURE - SEE FIXTURE SCHEDULE
$	SINGLE POLE TOGGLE SWITCH
$_a$	SUBSCRIPT DENOTES FIXTURE BEING CONTROLLED
$_3$	THREE-WAY TOGGLE SWITCH
$_4$	FOUR-WAY TOGGLE SWITCH
$_D$	DIMMER SWITCH
	OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR
	LIGHTING CONTROL POWER PACK RELAY
	PHOTOELECTRIC CONTROL
	DUPLEX CONVENIENCE OUTLET
	COUNTER TOP MOUNTING HEIGHT (CLEAR BACK SPLASH)
	DOUBLE-DUPLEX CONVENIENCE OUTLET
	SPECIAL OUTLET
	PLUG MOLD
J	JUNCTION BOX
	JUNCTION BOX W/FLEXIBLE CONDUIT
	ELECTRIC MOTOR
$_m$	MOTOR RATED SWITCH
$_{2m}$	2 POLE MOTOR RATED SWITCH
FB	FLOOR BOX WITH COMBINATION DUPLEX POWER OUTLET AND DATA OUTLET
	ELECTRICAL PANELBOARD - SURFACE MOUNTED (HATCHING DENOTES NEW EQUIPMENT)
	ELECTRICAL PANELBOARD (HATCHING DENOTES NEW EQUIPMENT)
	TELEDATA BACKBOARD
	DISCONNECT SWITCH (HATCHING DENOTES NEW EQUIPMENT)
T	TRANSFORMER
	DATA/COMMUNICATIONS OUTLET (SEE SPECIFICATIONS FOR ROUGH-IN REQUIREMENTS)
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
	HOMERUN TO ELECTRIC PANELBOARD
	CONDUIT RUN CONCEALED BELOW FLOOR OR IN SLAB
	INTERCOM TRUMPET
C	INTERCOM CALL BUTTON
S	INTERCOM/PAGING CEILING SPEAKER (CEILING MOUNTED)
S	INTERCOM/PAGING/SPEAKER (WALL MOUNTED)
D	SMOKE DETECTOR (CEILING MOUNTED)
H	HEAT DETECTOR (CEILING MOUNTED)
F	FIRE ALARM PULL STATION
	FIRE ALARM AUDIO/VISUAL UNIT
	FIRE ALARM AUDIO/VISUAL UNIT - CEILING MOUNTED
	FIRE ALARM VISUAL UNIT
	FIRE ALARM VISUAL UNIT - CEILING MOUNTED
F	FIRE ALARM AUDIO UNIT
	FIRE ALARM DUCT DETECTOR (MOUNT IN HVAC SUPPLY AND RETURN DUCT)
C	CEILING MOUNTED
CT	COUNTER-TOP-HEIGHT MOUNTED
EWC	ELECTRIC WATER COOLER
GFI	GROUND FAULT INTERRUPTER PROTECTED
PB	PULLBOX
RA	ROBOTICS ARENA (CONNECT TO A/V RACK)
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF

IT IS THE INTENT OF THESE CONTRACT DOCUMENTS THE EXISTING FIRE ALARM SYSTEM BE EXTENDED/EXPANDED OR REPLACED WITH NEW TO PROVIDE PROPER NFPA 101/72 COVERAGE FOR NEW CLASS ROOM BUILDING. ALL AUDIBLE DEVICES SHALL BE VOICE-EVAC/STROBE. THE BIDDER SHALL INCLUDE ALL LASFM REQUIRED SUBMITTAL INFORMATION AND FEES IN BID. BIDDER SHALL BE LOCAL FACTORY AUTHORIZED DEALER OF EXISTING SYSTEM AND INCLUDE CERTIFICATION OF SUCH IN SUBMITTALS.

IT IS THE BIDDER'S RESPONSIBILITY TO VERIFY SPECIFIC EQUIPMENT NEEDS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR TO OBTAIN DESIRED 120 VOLT POWER FOR EQUIPMENT AND COMMUNICATION.

ALL CABLING THRU CORRIDOR OR NEW CONSTRUCTION WALLS SHALL BE SLEEVED (UTILIZE EMT - 2"C MIN.) ALL WIRING SHALL BE RUN IN NEW RACEWAYS - CONCEALED UNLESS RUNNING ABOVE ACCESSIBLE SUSPENDED ACOUSTICAL CEILINGS - J HOOKS REQUIRED THESE SPACES.

Fire Alarm System Requirements (1)

IT IS THE INTENT OF THESE CONTRACT DOCUMENTS THE EXISTING INTERCOM SYSTEM (VERIFY ON-SITE) BE EXTENDED/EXPANDED TO PROVIDE PROPER INTERCOMMUNICATIONS WITH NEW CLASSROOM BUILDING. ALL NEW SPEAKERS SHALL BE QUAM - LAYIN STYLE (12" X 24").

BIDDER SHALL FURNISH SHOP DRAWINGS INCLUDING PRODUCT DATA (CUT SHEETS) AND DRAWING OUTLINING ALL CABLE, CABLE ROUTING, SPEAKER LOCATIONS AND CALL BUTTONS. ANY NEW AMPLIFICATION TYPE EQUIPMENT SHALL BE INSTALLED AS REQUIRED.

IT IS THE BIDDER'S RESPONSIBILITY TO VERIFY SPECIFIC EQUIPMENT NEEDS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR TO OBTAIN DESIRED 120 VOLT POWER FOR EQUIPMENT.

ALL CABLING THRU CORRIDOR OR NEW CONSTRUCTION WALLS SHALL BE SLEEVED (UTILIZE EMT - 2"C MIN.) ALL WIRING SHALL BE RUN IN NEW RACEWAYS - CONCEALED UNLESS RUNNING ABOVE ACCESSIBLE SUSPENDED ACOUSTICAL CEILINGS - J HOOKS REQUIRED THESE SPACES.

Intercom System Requirements (2)

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	LUMENS	VOLTS	MOUNTING	MANUFACTURER	CATALOG NUMBER	WATTAGE
A1	2X4 FLAT PANEL	3000	MVOLT	LAY-IN	LITHONIA	CPX 2X4 3000LM 80CRI 40K SWL MIN10 ZT MVOLT	24.6
A2	2X4 FLAT PANEL	4000	MVOLT	LAY-IN	LITHONIA	CPX 2X4 4000LMHE 80CRI 40K SWL MIN10 ZT MVOLT	36.7
C	1X4 FLAT PANEL	3200	MVOLT	LAY-IN	LITHONIA	CPX 1X4 3200LMHE 80CRI 40K SWL MIN10 ZT MVOLT	29.3
D	6" DOWNLIGHT	1000	MVOLT	RECESSED	LITHONIA	LDN6 40/10 L06 * LD * MVOLT GZ10	10.3
L	LED AREA LIGHT	9700	MVOLT	POLE	LITHONIA	DSX1 P2 4000K 80CRI T3M MVOLT RPA *	68.0
	16' ROUND POLE			FOUNDATION	LITHONIA	RSS 16 4B DM19AS *	
S	4' STRIPLIGHT	4000	MVOLT	SUSPENDED	LITHONIA	CLX L48 4000LM HEF FDL MVOLT GZ10 40K 80CRI *	23.8
V	4' VAPOR TIGHT	3000	MVOLT	SURFACE	LITHONIA	CSVT L48 3000LM LPPFL MD MVOLT GZ10 40K 80CRI	24.8
X	SINGLE-SIDED EXIT SIGN w/ EMERGENCY BATTERY	LED	MVOLT	UNIVERSAL	LITHONIA	LQM S * RG MVOLT EL SD	2.5
Y	EMERGENCY LIGHT	1100	MVOLT	SURFACE	LITHONIA	ELM6L B UVOLT LTP SDRT	2.8

* ARCHITECT TO SELECT FIXTURE FINISH/COLOR.

SAFETY SWITCH SCHEDULE

EQUIPMENT SERVED	AMPERAGE RATING	VOLTAGE RATING	POLES	DUTY LISTING	NEMA RATING	FUSE SIZE
AC-1	100	240	2	HEAVY	1	*
BLEACHER	30	240	3	HEAVY	1	*
CU-1	60	240	3	HEAVY	3R	*
RTU-1	200	240	3	HEAVY	3R	*
RTU-2	200	240	3	HEAVY	3R	*
RTU-3	100	240	3	HEAVY	3R	*
WH-1	30	240	2	HEAVY	1	*

* FUSE SWITCH AT EQUIPMENT MANUFACTURER'S NAMEPLATE RECOMMENDATIONS

PANEL C1F SEC.1 [EXIST.]

VOLTAGE: ☐ 480/277V, 3ø, 4W, WYE; ■ 208/120V, 3ø, 4W, WYE; ☐ 240/120V, 3ø, 4W, DELTA W/ 3ø "STINGER"

300 AMP: ☐ FACTORY MAIN CIRCUIT BREAKER; ☐ SHUNT TRIP MAIN CB; ■ MAIN LUGS ONLY; ■ UL LISTED FEED-THRU LUGS

NEUTRAL: ■ 100% ☐ 200%

MOUNTING: ■ SURFACE ☐ RECESSED; ☐ FREE STANDING (FRONT ACCESS ONLY); ☐ FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE: ■ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION); ☐ NEMA 3R; ☐ NEMA 4X 320 STAINLESS STEEL; ☐ LOCKABLE COVER

FEED: ■ TOP; ☐ BOTTOM

BRANCHES: ■ BOLT-ON, PANELBOARD CONSTR.; ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5; ☐ PLUG-ON, LOADCENTER CONSTR.

AIC RATING EXISTING: ■ FULLY RATED; ☐ SERIES RATED

■ FURNISH GROUND BAR KIT; ☐ FURNISH ADDITIONAL ISOLATED GROUND BAR KIT; ☐ SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B C	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	2-10	10	1/2"	LIGHTS	--		--	BLEACHER	1/2"	12	4-12	20	2
3	20	2-12	12	1/2"	LIGHTS	--								4
5	20	2-12	12	1/2"	RECPTACLE	--								6
7	20	2-12	12	1/2"	RECPTACLE	--		--	EXISTING	--	--	--	20	8
9	20	2-12	12	1/2"	RECPTACLE	--		--	EXISTING	--	--	--	20	10
11	20	2-12	12	1/2"	RECPTACLE	--		--	EXISTING	--	--	--	20	12
13	20	2-12	12	1/2"	LIGHTS	--		--	EXISTING	--	--	--	20	14
15	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	16
17	20	--	--	--	EXISTING	--		--	RECPTACLE	1/2"	12	2-12	20	18
19	20	--	--	--	EXISTING	--		--	RECPTACLE	1/2"	12	2-12	20	20
21	20	--	--	--	EXISTING	--		--	BLEACHER	1/2"	12	4-12	20	22
23	20	2-12	12	1/2"	EF-1,2,3	--								24
25	20	2-12	12	1/2"	ARENA A/V RACK	--								26
27	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	28
29	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	30	30
31	30	4-10	10	1/2"	CU-1	--		--	EXISTING	--	--	--	30	32
33								--	EXISTING	--	--	--	30	34
35								--	EXISTING	--	--	--	20	36
37	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	38
39	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	30	40
41	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	42

NOTES:

TOTAL LOAD = 61.36 KVA
TOTAL AMPS = 170.31 AMPS

PANEL C1F SEC.2 [EXIST.]

VOLTAGE: ☐ 480/277V, 3ø, 4W, WYE; ■ 208/120V, 3ø, 4W, WYE; ☐ 240/120V, 3ø, 4W, DELTA W/ 3ø "STINGER"

300 AMP: ☐ FACTORY MAIN CIRCUIT BREAKER; ☐ SHUNT TRIP MAIN CB; ■ MAIN LUGS ONLY; ☐ UL LISTED FEED-THRU LUGS

NEUTRAL: ■ 100% ☐ 200%

MOUNTING: ■ SURFACE ☐ RECESSED; ☐ FREE STANDING (FRONT ACCESS ONLY); ☐ FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE: ■ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION); ☐ NEMA 3R; ☐ NEMA 4X 320 STAINLESS STEEL; ☐ LOCKABLE COVER

FEED: ■ TOP; ☐ BOTTOM

BRANCHES: ■ BOLT-ON, PANELBOARD CONSTR.; ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5; ☐ PLUG-ON, LOADCENTER CONSTR.

AIC RATING EXISTING: ■ FULLY RATED; ☐ SERIES RATED

■ FURNISH GROUND BAR KIT; ☐ FURNISH ADDITIONAL ISOLATED GROUND BAR KIT; ☐ SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B C	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	2
3	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	4
5	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	6
7	20	--	--	--	EXISTING	--		--	ARENA RIG 1	1/2"	10	2-10	20	8
9	20	--	--	--	EXISTING	--		--	ARENA RIG 1	1/2"	10	2-10	20	10
11	100	3-3	8	1.25"	AC-1	--		--	ARENA RIG 2	1/2"	10	2-10	20	12
13								--	ARENA RIG 2	1/2"	10	2-10	20	14
15	20	--	--	--	EXISTING	--		--	ARENA RIG 3	3/4"	8	2-8	20	16
17	20	--	--	--	EXISTING	--		--	ARENA RIG 3	3/4"	8	2-8	20	18
19	20	--	--	--	EXISTING	--		--	EXISTING	--	--	--	20	20
21	20	2-12	12	1/2"	RECPTACLE	--		--	EXISTING	--	--	--	20	22
23	20	2-12	12	1/2"	RECPTACLE	--								24
25	20	2-12	12	1/2"	RECPTACLE	--								26
27	20	2-12	12	1/2"	RECPTACLE	--		--	EXISTING	--	--	--	20	28
29	20	2-10	10	1/2"	RECPTACLE	--								30
31	20	2-12	12	1/2"	RECPTACLE	--								32
33	20	2-12	12	1/2"	RECPTACLE	--		--	EXISTING	--	--	--	20	34
35	20	2-12	12	1/2"	WARMER	--								36
37	20	2-12	12	1/2"	COFFEE MACHINE	--								38
39	20	2-12	12	1/2"	CONCESSION POS	--		--	WARMER	1/2"	12	2-12	20	40
41	20	2-12	12	1/2"	FRIDGE	--		--	MICROWAVE	1/2"	12	2-12	20	42

NOTES:

TOTAL LOAD = 34.18 KVA
TOTAL AMPS = 94.87 AMPS

PANEL C1G [NEW]

VOLTAGE: ☐ 480/277V, 3ø, 4W, WYE; ■ 208/120V, 3ø, 4W, WYE; ☐ 240/120V, 3ø, 4W, DELTA W/ 3ø "STINGER"

600 AMP: ☐ FACTORY MAIN CIRCUIT BREAKER; ☐ SHUNT TRIP MAIN CB; ■ MAIN LUGS ONLY; ☐ UL LISTED FEED-THRU LUGS

NEUTRAL: ■ 100% ☐ 200%

MOUNTING: ■ SURFACE ☐ RECESSED; ☐ FREE STANDING (FRONT ACCESS ONLY); ☐ FREE STANDING (FRONT AND REAR ACCESS)

ENCLOSURE: ☐ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION); ■ NEMA 3R; ☐ NEMA 4X 320 STAINLESS STEEL; ☐ LOCKABLE COVER

FEED: ☐ TOP; ■ BOTTOM

BRANCHES: ■ BOLT-ON, PANELBOARD CONSTR.; ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5; ☐ PLUG-ON, LOADCENTER CONSTR.

AIC RATING 10,000: ■ FULLY RATED; ☐ SERIES RATED

■ FURNISH GROUND BAR KIT; ☐ FURNISH ADDITIONAL ISOLATED GROUND BAR KIT; ☐ SERVICE ENTRANCE LABEL

ALL COPPER BUSSING

CKT. #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	A B C	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT. #
1	200	4-3/0	6	2"	RTU-1	--		--	RTU-3	1.5"	8	4-4	70	2
3														4
5														6
7	200	4-3/0	6	2"	RTU-2	--		--	WH-1	1/2"	10	2-10	30	8
9														10
11								--	WH-1	1/2"	10	2-10	30	12
13	30	3-10	10	1/2"	CU-2	--								14
15								--	SPARE	--	--	--	20	16
17	40	3-8	10	3/4"	CU-3	--		--	SPARE	--	--	--	20	18
19								--	SPARE	--	--	--	20	20
21	20	--	--	--	SPARE	--		--	SPARE	--	--	--	20	22
23	20	--	--	--	SPARE	--		--	SPARE	--	--	--	20	24
25	20	--	--	--	SPARE	--		--	SPD	1"	6	4-6	60	26
27	20	--	--	--	SPARE	--								28
29	20	--	--	--	SPARE	--								30

NOTES:

(1) FINAL AIC RATING FOR THE PANEL TO BE BASED UPON FAULT CURRENT STUDY. FAULT CURRENT VALUE PROVIDED IS FOR BIDDING PURPOSES ONLY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

(2) ALL SCHEDULED SPARE CIRCUIT BREAKERS SHALL BE INSTALLED IN THE OFF POSITION.

TOTAL LOAD = 154.69 KVA
TOTAL AMPS = 429.37 AMPS

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STEM Gymnasium Improvements at the Region 5 STEM Center
For The Calcasieu Parish School Board

1509 Enterprise Blvd, Lake Charles, LA 70601

C.E.H. PROJECT NUMBER
2401

STATE OF LOUISIANA
DAVID B. STELLY
License No. 28070
10/08/2026
PROFESSIONAL ENGINEER

CHAMPEAUX EVANS HOTARD, APAC

Drawings and Specifications as instruments of service are and shall remain the property of the Architect. They are not to be used on other projects or extensions to this project except by agreement in writing and with appropriate compensation to the Architect. Contractor is responsible for confirming and correlating dimensions at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures; or for safety precautions and programs in connection with the project.

E4.0

PRINT DATE
10/08/2026