

DEER POINT ELEMENTARY P.E. PAVILION ENCLOSURE

4800 Co Rd 2321, Panama City, FL 32404

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CONSTRUCTION
DOCUMENTS

PLANS FOR
**DEER POINT ELEMENTARY
 P.E. PAVILION ENCLOSURE**

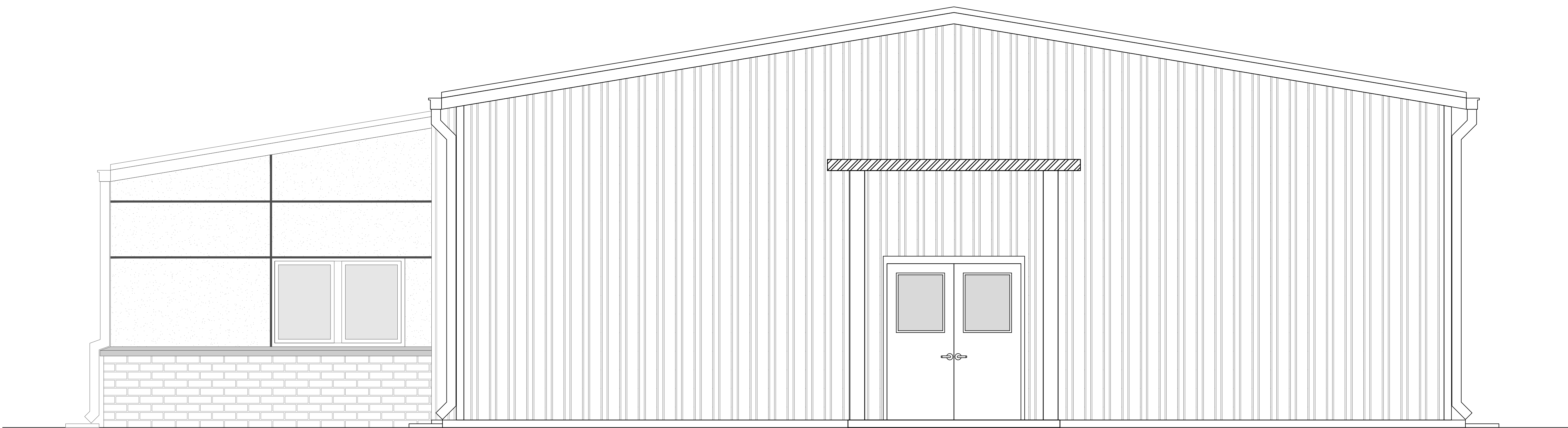
REVISIONS:

No.	Description	Date

COVER SHEET

PROJECT NUMBER **24042**
DATED 06.21.2024

G001



B1 SCALE: NTS	PROPOSED BUILDING ELEVATION				
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A1 SCALE: NTS	PROJECT TEAMS AND DISCIPLINE ALLOCATION				

B2 SCALE: NTS	PROJECT DRAWING INDEX
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24042
 LS101
 June 21, 2024
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APPLICABLE BUILDING CODES

- FLORIDA BUILDING CODE BUILDING (FBC-B) 2020 EDITION
- FLORIDA BUILDING CODE: ACCESSIBILITY (FBC-A) 2020 EDITION
- FLORIDA BUILDING CODE: ENERGY CONSERVATION (FBC-EC) 2020 EDITION
- FLORIDA BUILDING CODE: FUEL GAS (FBC-FG) 2020 EDITION
- FLORIDA BUILDING CODE: MECHANICAL (FBC-M) 2020 EDITION
- FLORIDA BUILDING CODE: PLUMBING (FBC-P) 2020 EDITION
- FLORIDA FIRE PREVENTION CODE (FFPC) 7TH EDITION
- NATIONAL ELECTRIC CODE (NEC) 2020 EDITION

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
ONE TENANT - ASSEMBLY GROUP A-3

CHAPTER 5 - GENERAL HEIGHTS & AREAS

A. BUILDING AREAS AND HEIGHTS

- BUILDING FLOOR AREA = 4,302 GSF
- STORY(S) = 1 STORY
- HEIGHT = 24'-6" FT

B. ALLOWABLE HEIGHTS AND BUILDING AREAS (TABLE 503)

- CONSTRUCTION TYPE = II (CHAPTER 6)
- FIRE RESISTANT RATING = "B"
- BUILDING HEIGHT LIMIT = 55'-0"
- MAXIMUM STORES = 2
- MAXIMUM AREA PER FLOOR = 9,500 SF

CHAPTER 6 - TYPES OF CONSTRUCTION

A. CONSTRUCTION CLASSIFICATION-TYPE II B (SECTION 602.2)

B. FIRE RESISTANT RATING REQUIREMENTS (HOURS) FOR BUILDING ELEMENTS (TABLE 601) - TYPE II B:

-STRUCTURAL FRAME = 0 HOURS
 -BEARING WALLS - EXTERIOR = 0 HOURS
 -BEARING WALLS - INTERIOR = 0 HOURS
 -NON-BEARING WALLS AND PARTITIONS - EXTERIOR = SEE TABLE 602

- <5 = 1 HOURS
- >5 TO <10 = 1 HOURS
- >10 TO <20 = 0 HOURS
- >20 TO <30 = 0 HOURS
- >30 = 0 HOURS

C. NON-BEARING WALLS AND PARTITIONS - INTERIOR = 0 HOURS

- FLOOR CONSTRUCTION = 0 HOURS
- ROOF CONSTRUCTION = 0 HOURS

CHAPTER 7 - FIRE-RESISTANT RATED CONSTRUCTION

A. MAXIMUM AREA OF EXT. WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF PROTECTION (TABLE 705.6)

- 30' OR GREATER - UNPROTECTED, NONSPRINKLERED = NO LIMIT

CHAPTER 8 - INTERIOR FINISHES

A. INTERIOR WALL AND CEILING FINISH REQUIREMENTS (TABLE 803.11)
GROUP A-3, NONSPRINKLERED

- VERTICAL EXITS AND EXIT PASSAGEWAYS = A
- EXIT ACCESS CORRIDORS AND OTHER EXITWAYS = A
- ROOMS AND ENCLOSED SPACES = C

CHAPTER 10 - MEANS OF EGRESS

A. OCCUPANT LOAD (TABLE 1004.5)

- ASSEMBLY AREAS (20 GROSS) - 3,492 GSF /15 = 233 PERSONS
- KITCHEN AREAS (200 GROSS) - 173 GSF/150 = 2 PERSON
- STORAGE AREAS (300 GROSS) - 329 GSF/300 = 1 PERSON

B. EGRESS WIDTH SECTION 1005.1
OTHER EGRESS COMPONENTS = 0.2" PER OCCUPANT

C. COMMON PATH OF EGRESS TRAVEL (SECTION 1006.2.1)
GROUP A = 75 FEET MAXIMUM

D. EXIT AND EXIT ACCESS DOORWAYS (1006)
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

- OCCUPANT LOAD OF THE SPACE EXCEEDS VALUES IN TABLE 1006.2.1
- THE COMMON PATH OF EGRESS TRAVEL EXCEEDS THE LIMITATIONS OF SECTION 1006.2.1
- WHERE REQUIRED BY SECTION 1006.3.2

F. EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) WITH SPRINKLER SYSTEM

- OCCUPANCY A = 200 FEET MAXIMUM

G. CORRIDOR FIRE RESISTANT RATING (TABLE 1018.1) WITHOUT SPRINKLER SYSTEM

- OCCUPANCY A = 0 HOUR (LESS THAN 30 OCCUPANTS)

H. CORRIDOR WIDTH (SECTION 1020.2)

- CORRIDOR WIDTH 44" MIN.

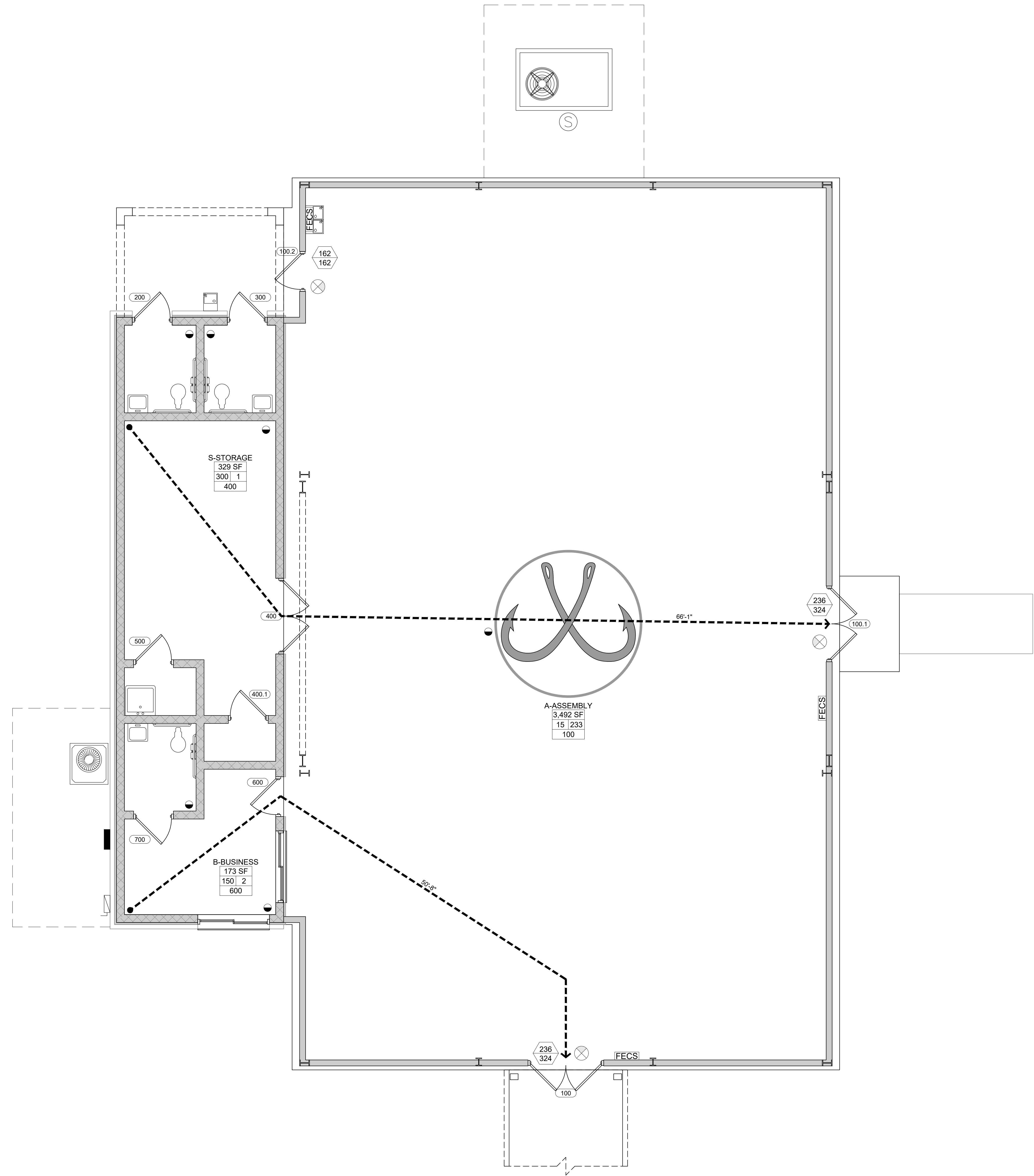
I. MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD (TABLE 1021.1)

- OCCUPANT LOAD 1-500 PERSONS = 2 EXITS
- OCCUPANT LOAD 501-1,000 PERSONS = 3 EXITS
- OCCUPANT LOAD MORE THAN 1,000 PERSONS = 4 EXITS

TOTAL NUMBER OF OCCUPANTS : 236

A. EGRESS WIDTH (1005.3.2)

- EGRESS = 0.2" PER OCCUPANT
- 236 OCC. x 0.2 = 47.2 INCHES MIN. TOTAL EGRESS REQUIRED
- TOTAL EGRESS WIDTH PROPOSED = 162.5"



LIFE SAFETY LEGEND

- PATH OF TRAVEL, DISTANCE AND DIRECTION
- ROOM OCCUPANCY TYPE
- ROOM SQ FT
- ROOM OCCUPANT COUNT
- ROOM OCCUPANT COUNT
- ROOM NUMBER
- EXIT LOAD
- EXIT CAPACITY
- FIRE EXTINGUISHER CAB. SURFACE MOUNTED
- SMOKE DETECTOR
- EXIT SIGN WITH LED EMERGENCY LIGHT

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**DEER POINT ELEMENTARY
 P.E. PAVILION ENCLOSURE**

C1	LEGEND
SCALE: NTS	
LIFE SAFETY NOTES	
1. EXIT UNITS/EXIT DOOR LEAF = 36". ACTUAL CLEAR WIDTH = 32.5". 32.5" DIVIDED BY 0.20"/PERSON = 162 PEOPLE/LEAF 2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION	
B1	NOTES
SCALE: NTS	
STATEMENT OF COMPLIANCE	
TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE.	
A3	STATEMENT
SCALE: NTS	

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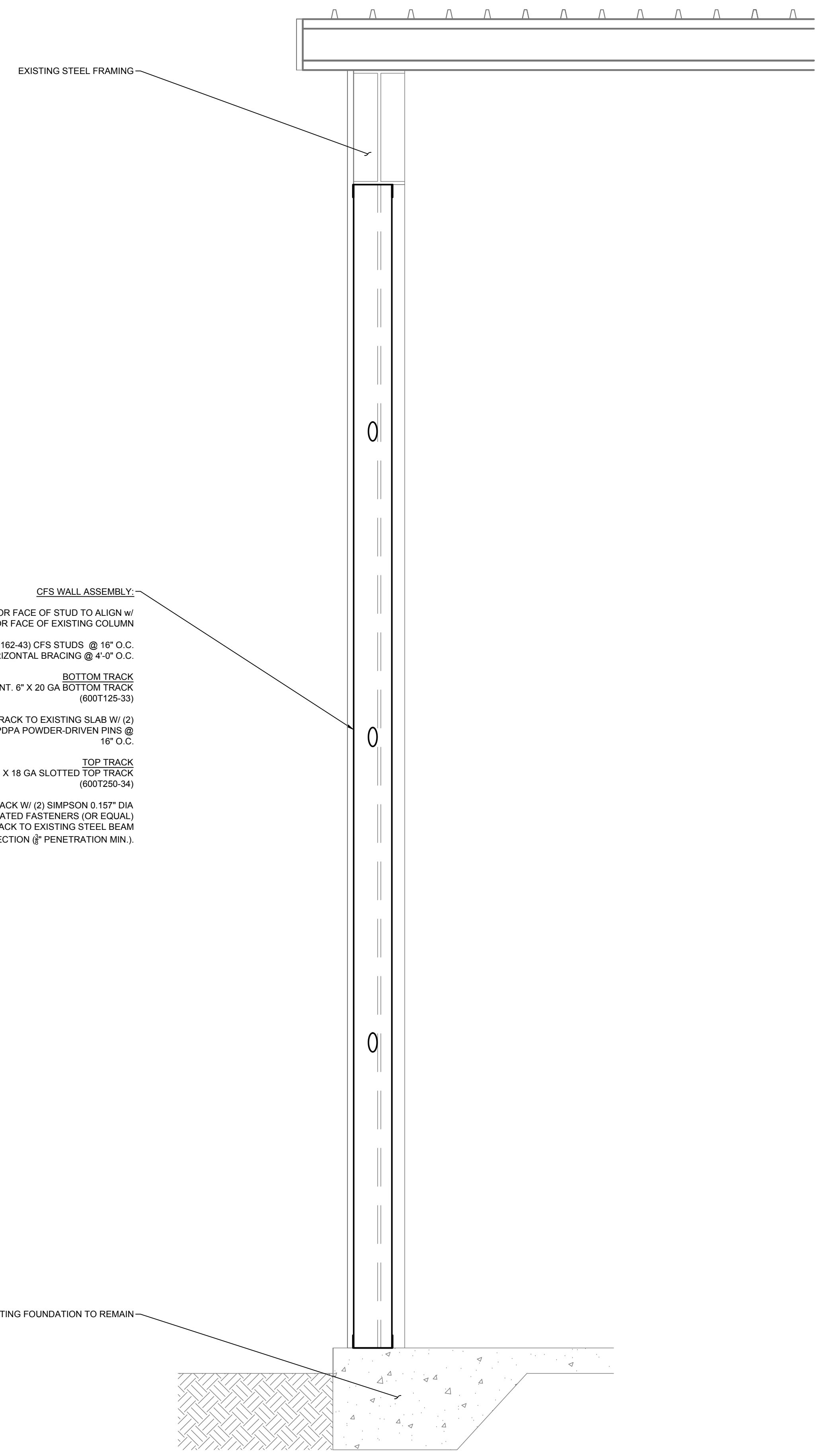
LIFE SAFETY

PROJECT NUMBER **24042**
 DATED **06.21.2024**

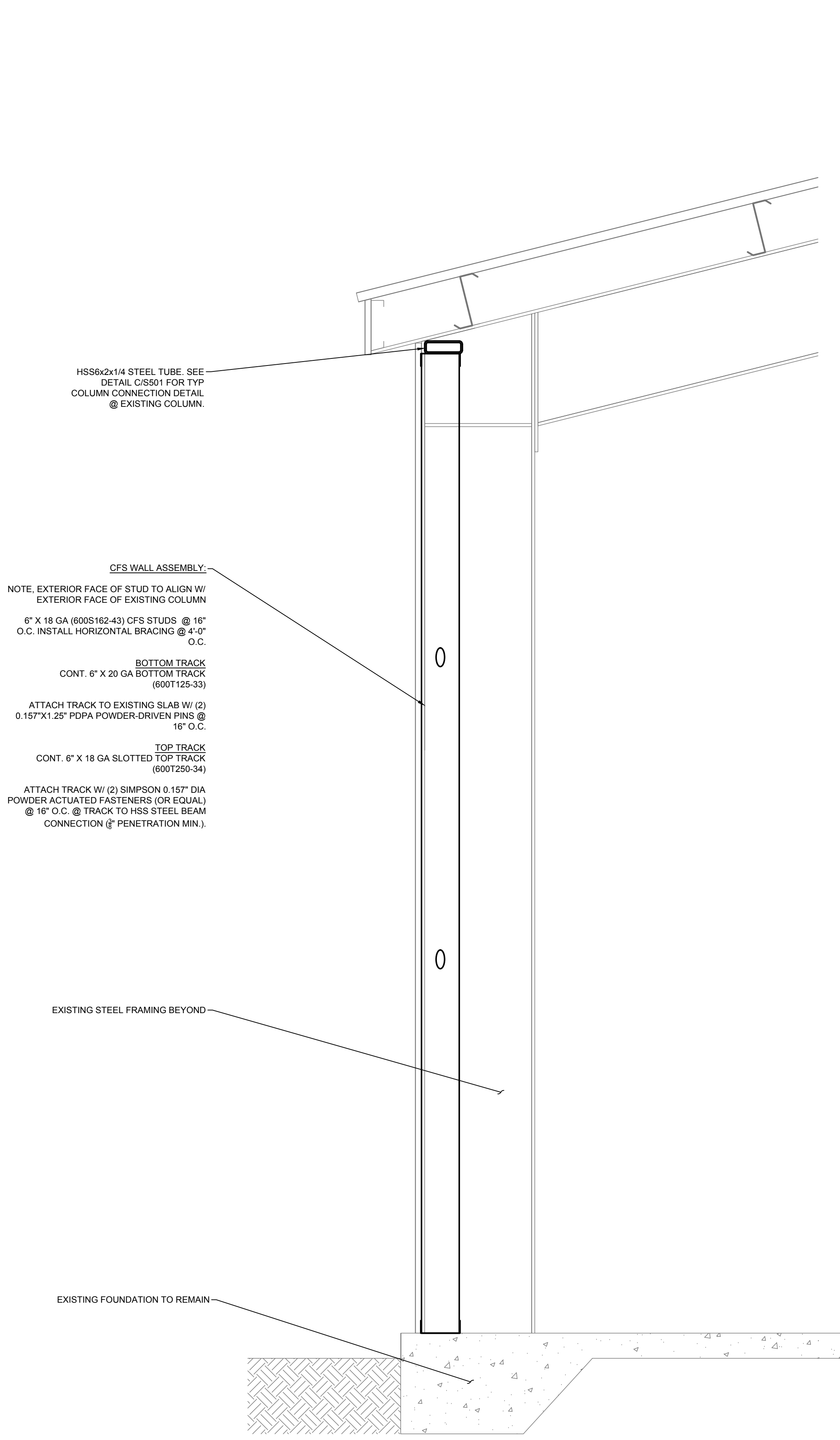
A1	CODE SUMMARY	A2	LIFE SAFETY PLAN
SCALE: NTS		SCALE: 1/4" = 1'-0"	

LS101

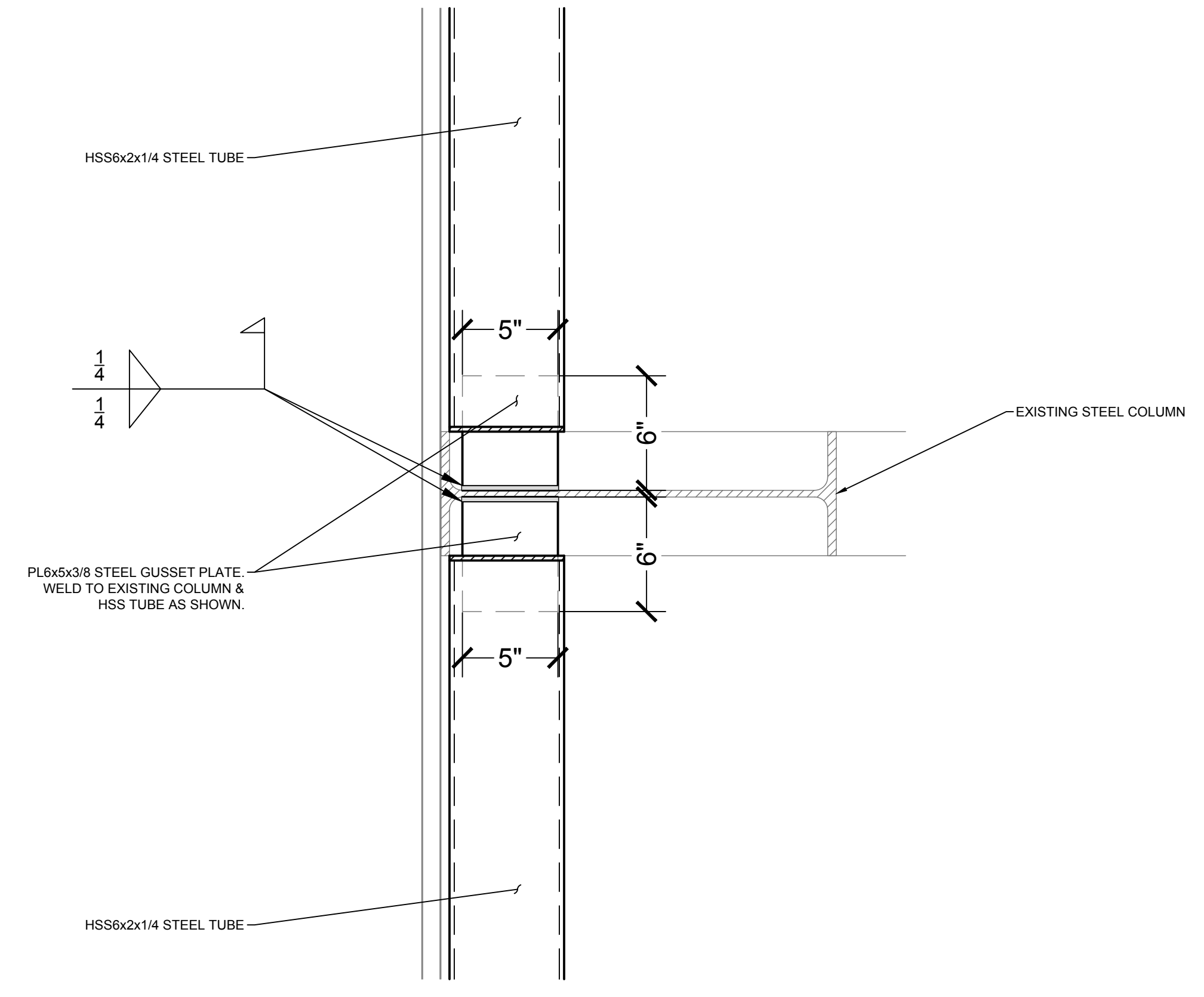
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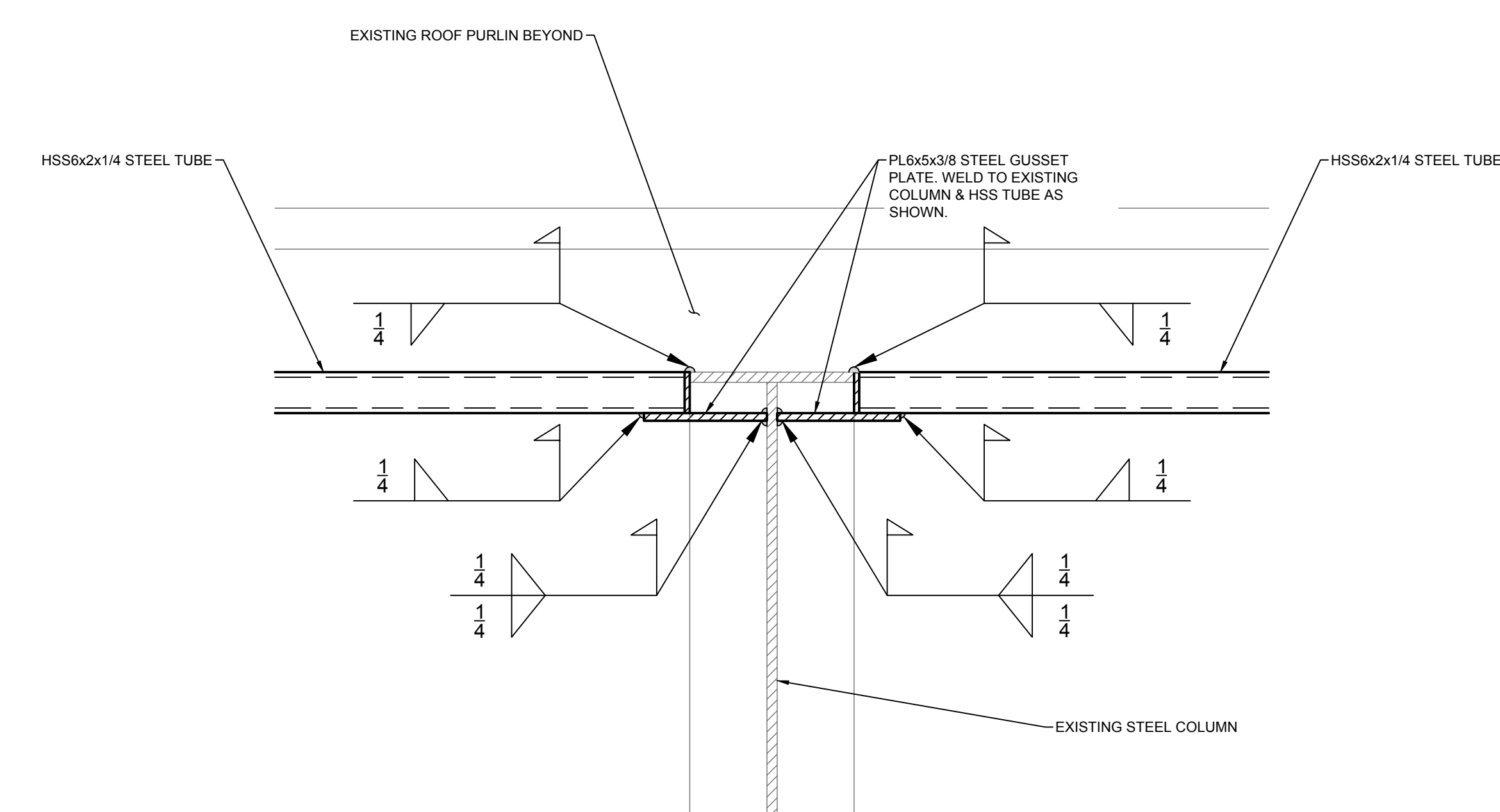
A TYP. WALL SECTION @ GABLE END WALL
SCALE: 1" = 1'-0"



B TYP. WALL SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"

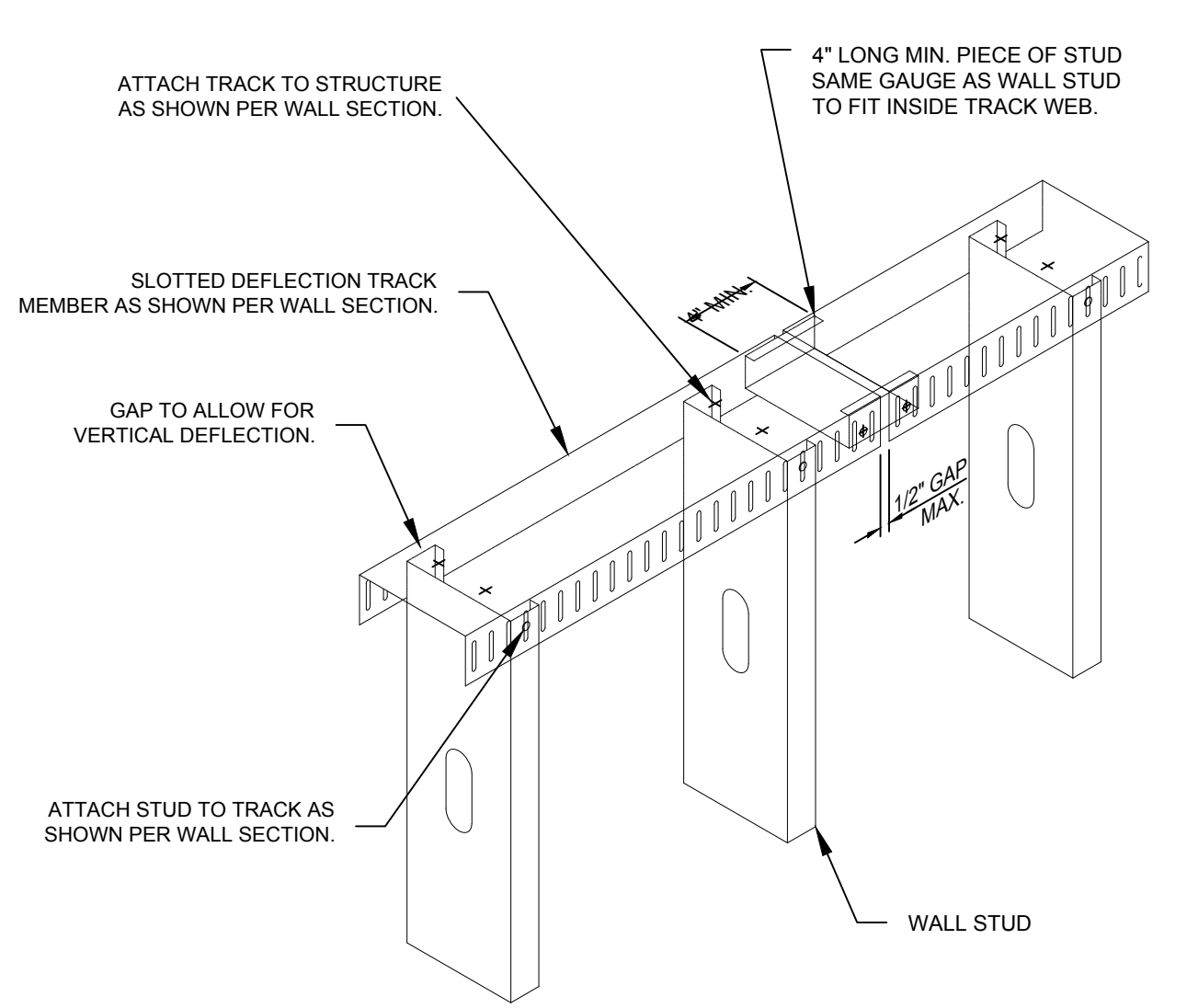


PLAN VIEW

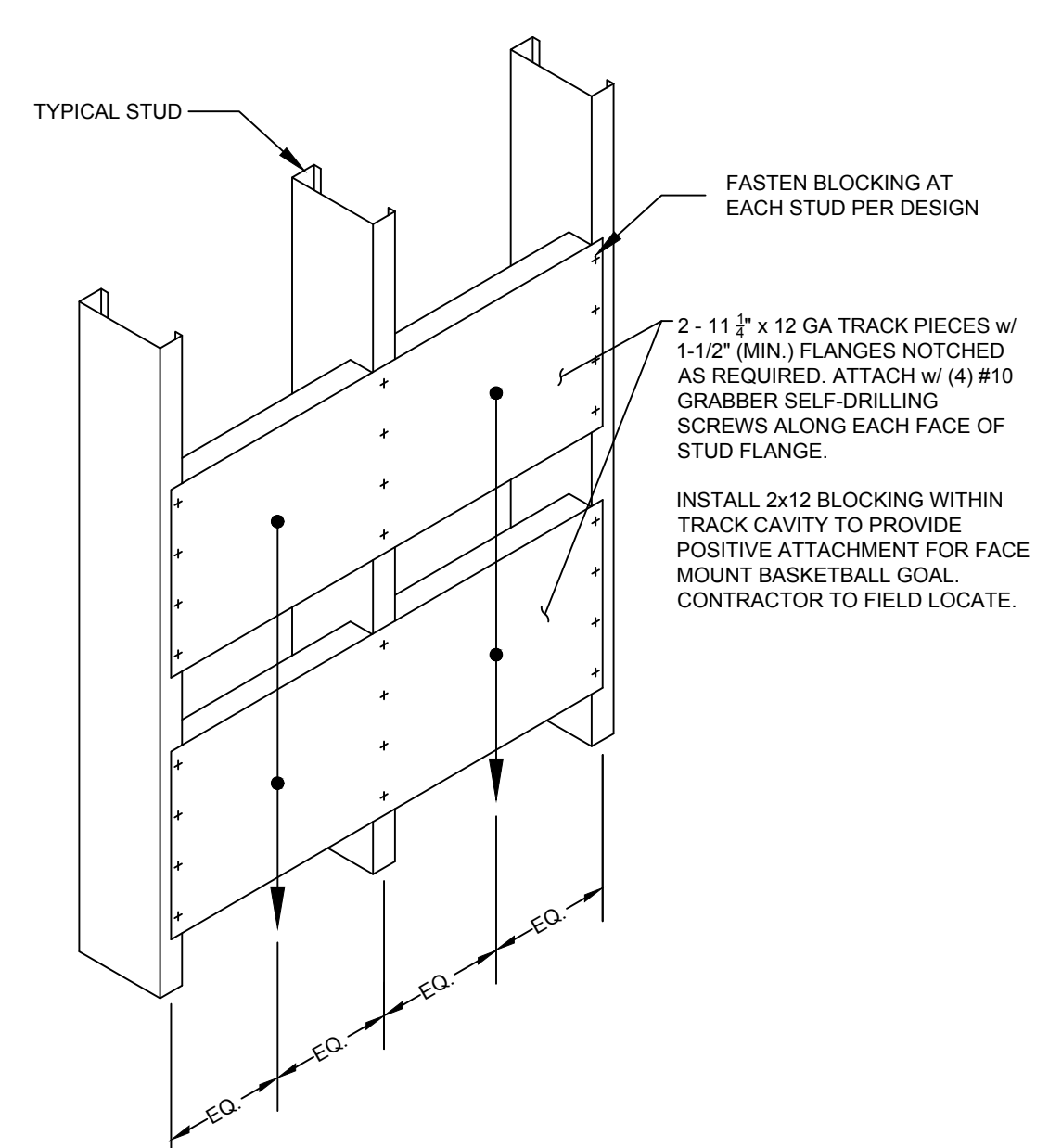


ELEVATION VIEW

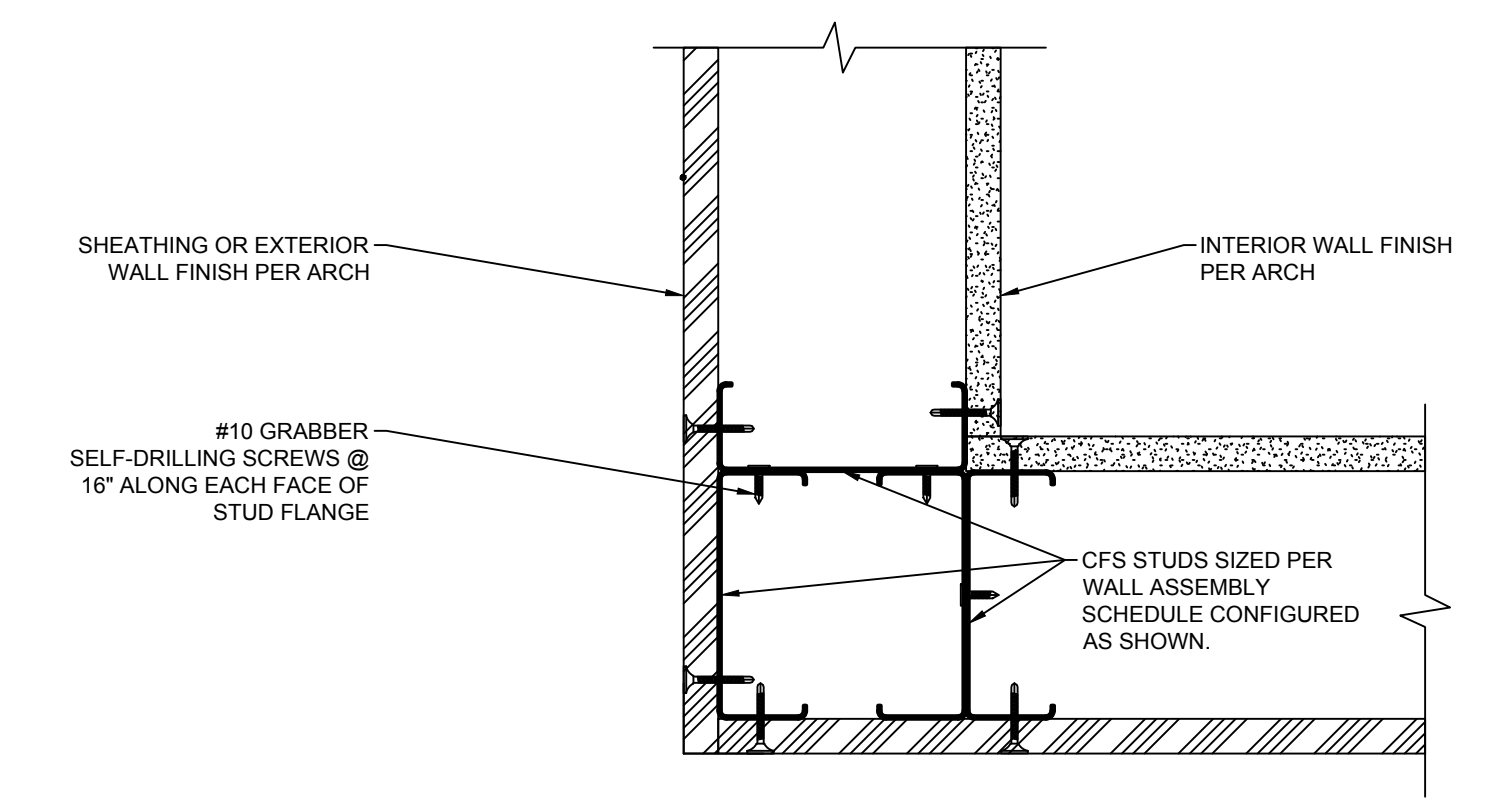
C TYP. STEEL CHANNEL TO EXISTING COLUMN DETAIL
SCALE: N.T.S.



D TYP. SLOTTED DEFLECTION TRACK DETAIL
SCALE: N.T.S.



E TYP. BACKING PLATE DETAIL
SCALE: N.T.S.



F TYP. CFS CORNER STUD TERMINATION DETAIL
SCALE: N.T.S.

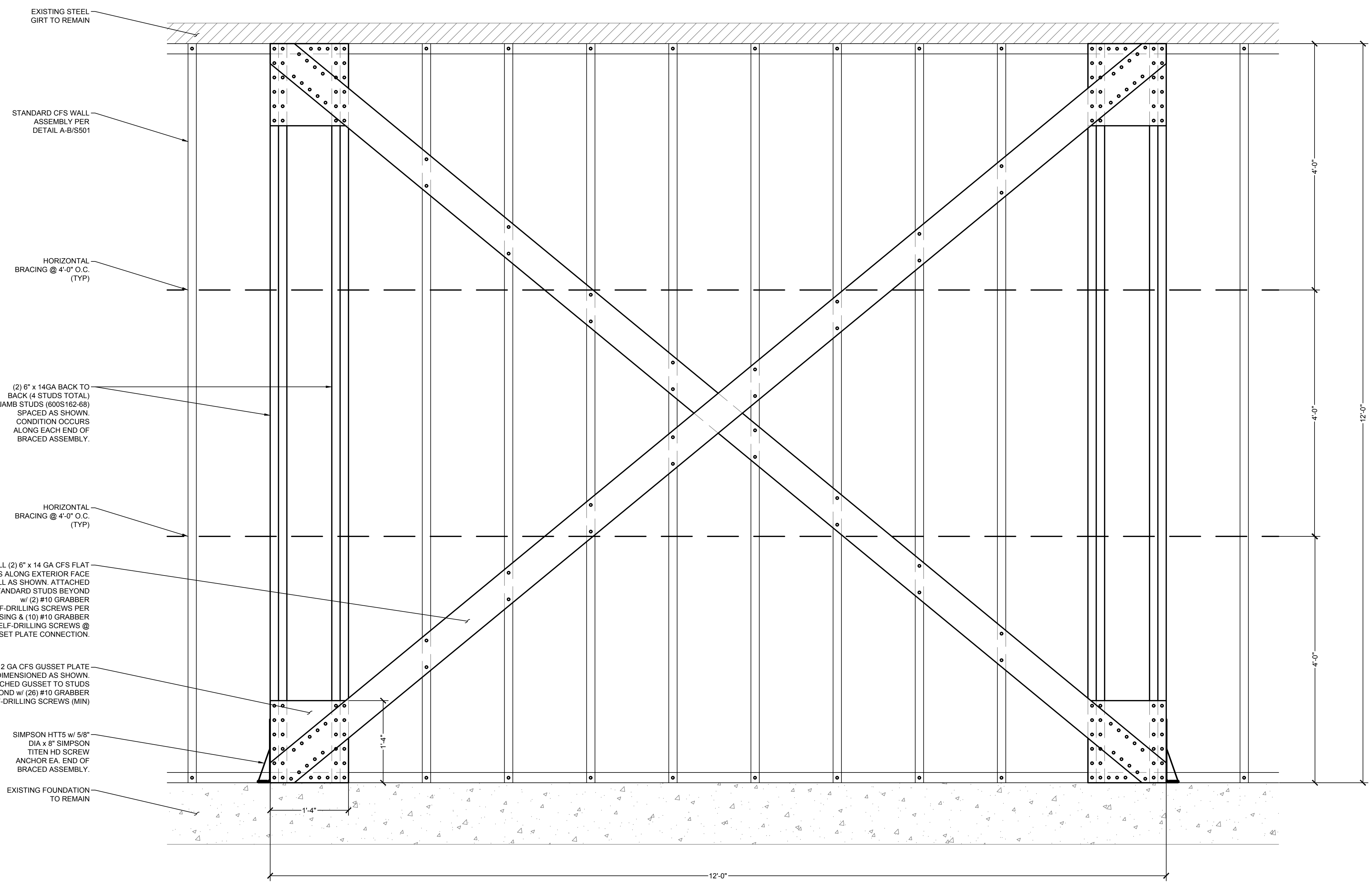
PLANS FOR
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 P.E. PAVILION ENCLOSURE

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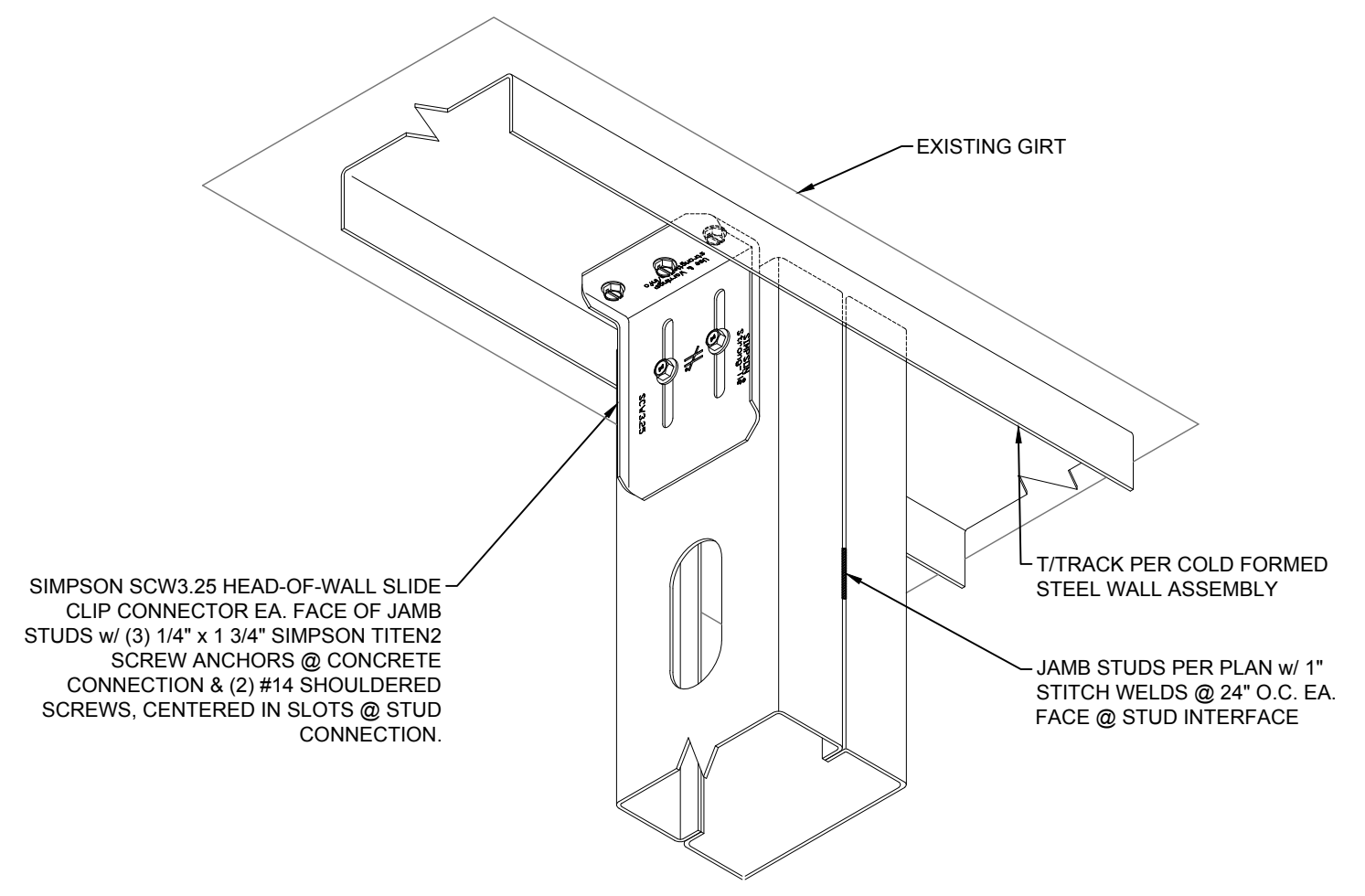
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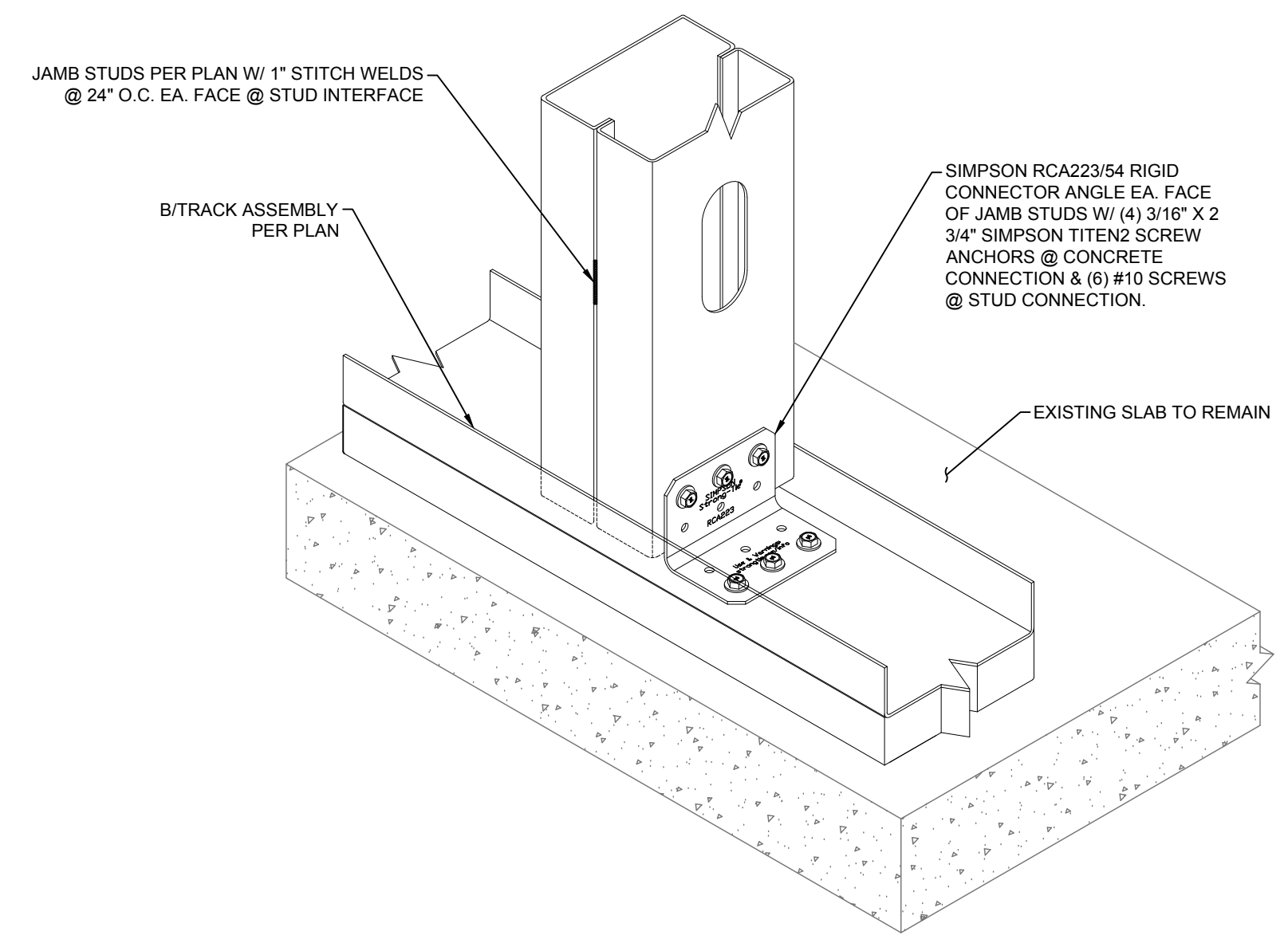
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A TYP. LATERAL BRACE "A" FRAMING DETAIL
 SCALE: 1" = 1'-0"



B TYP. JAMB CONNECTION @ T/TRACK
 SCALE: N.T.S.



C TYP. JAMB CONNECTION @ B/TRACK
 SCALE: N.T.S.

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STRUCTURAL CONSTRUCTION DETAILS

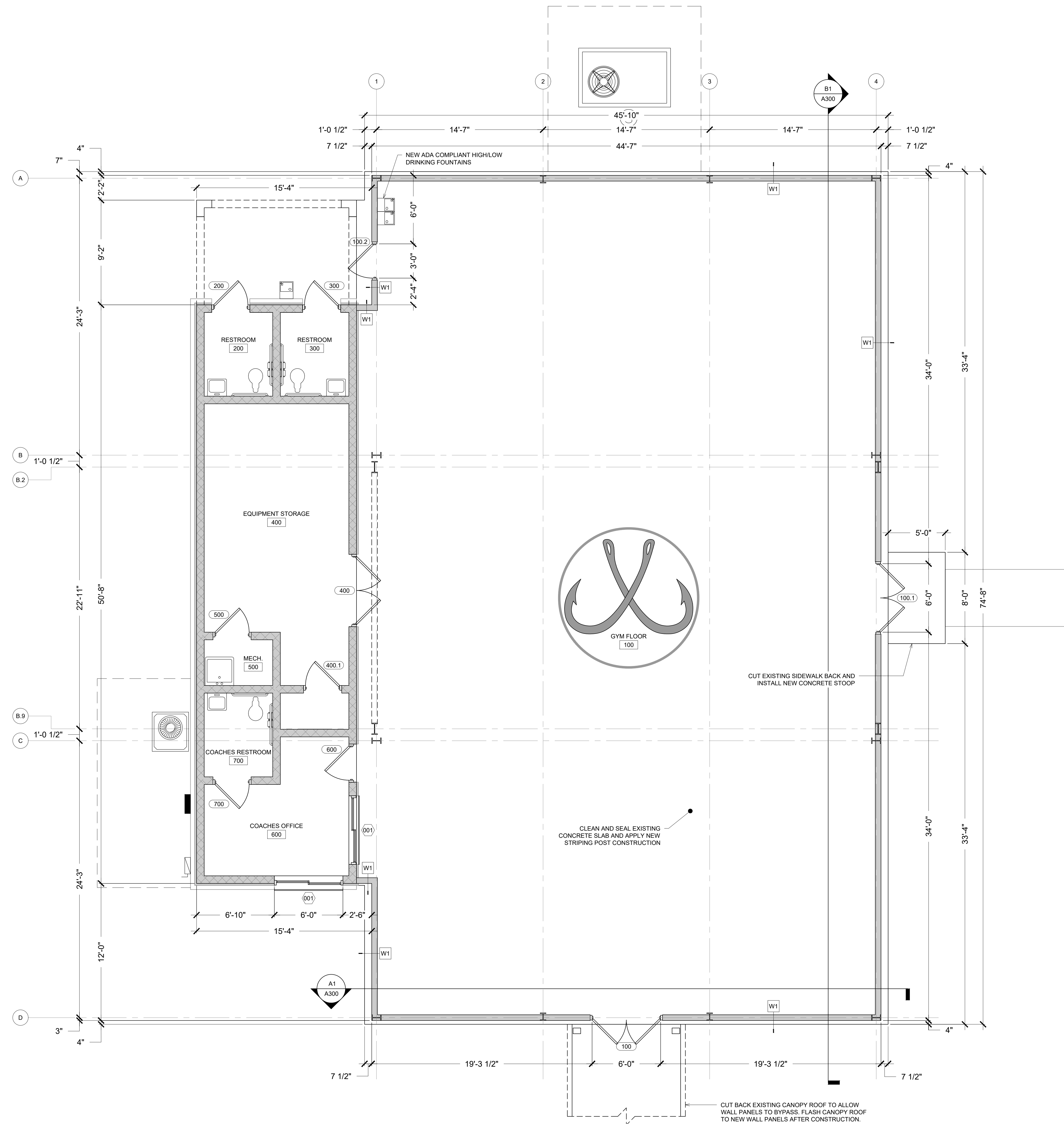
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 P.E. PAVILION ENCLOSURE



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FLOOR PLAN
 PROJECT NUMBER 24042
 DATED 06.21.2024

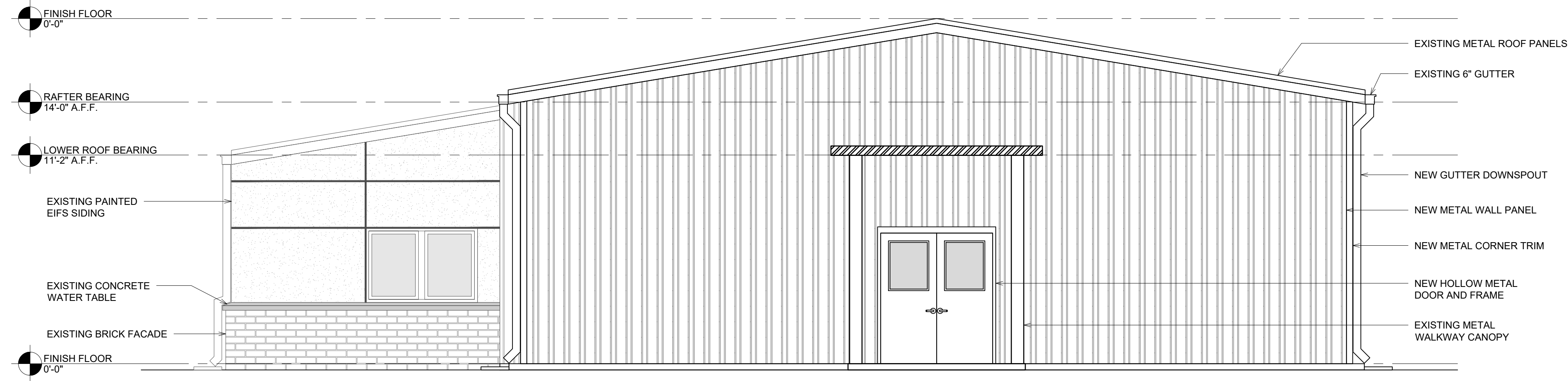
A1 FLOOR PLAN
 SCALE: 1/4" = 1'-0"



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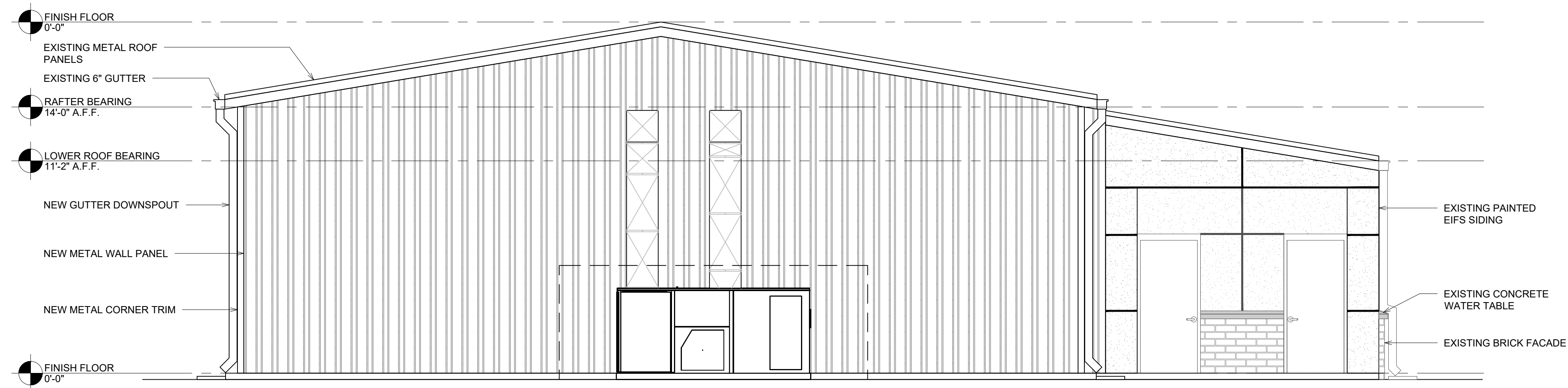
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B1 FRONT ELEVATION

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



A1 REAR ELEVATION

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

PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

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ELEVATIONS

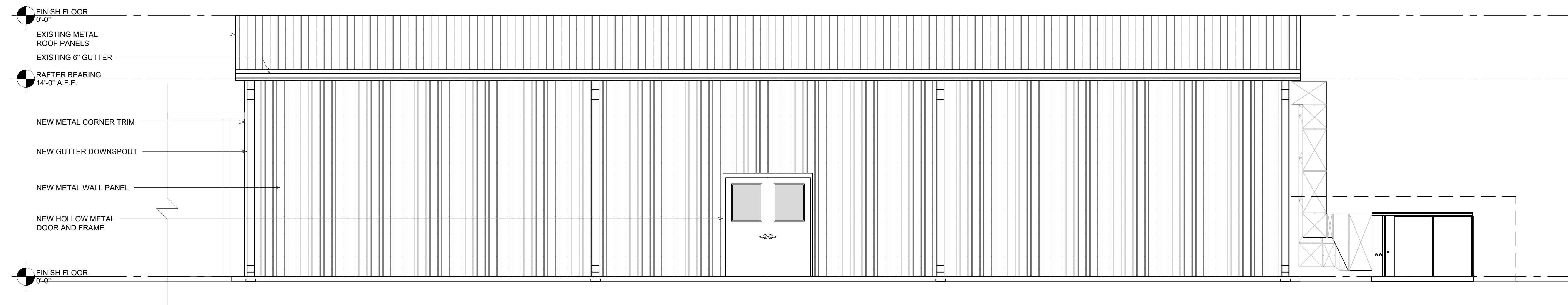
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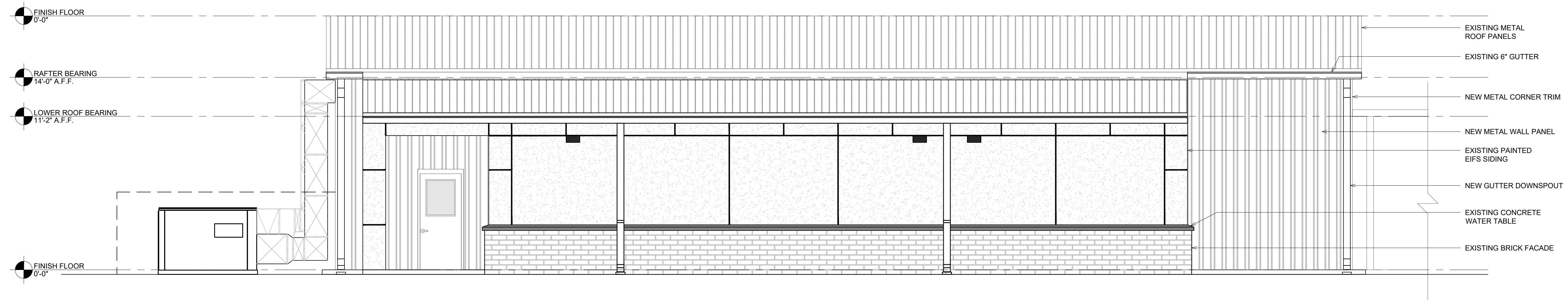
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B1 RIGHT SIDE ELEVATION

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



A1 LEFT SIDE ELEVATION

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

PLANS FOR
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ELEVATIONS

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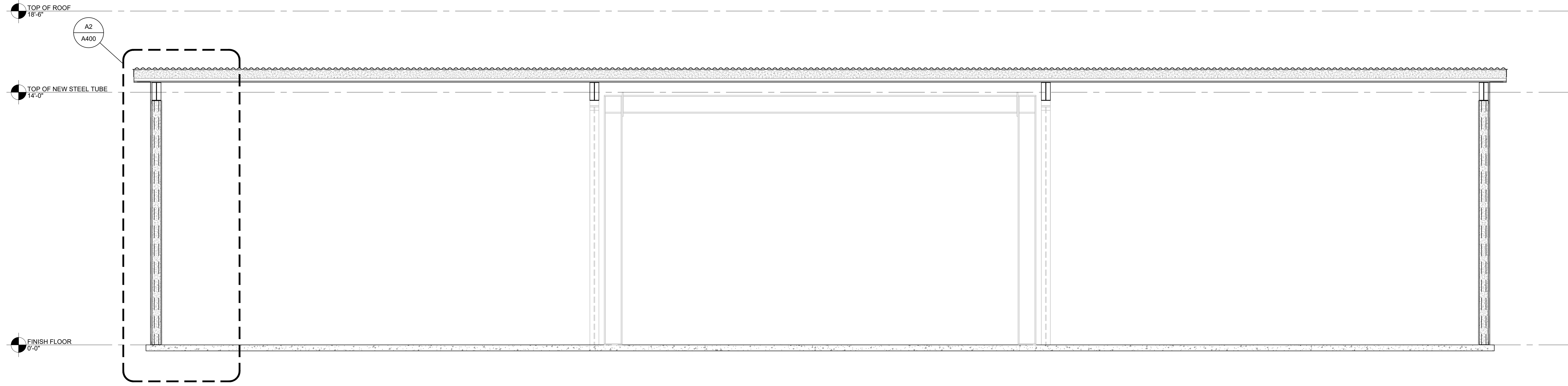


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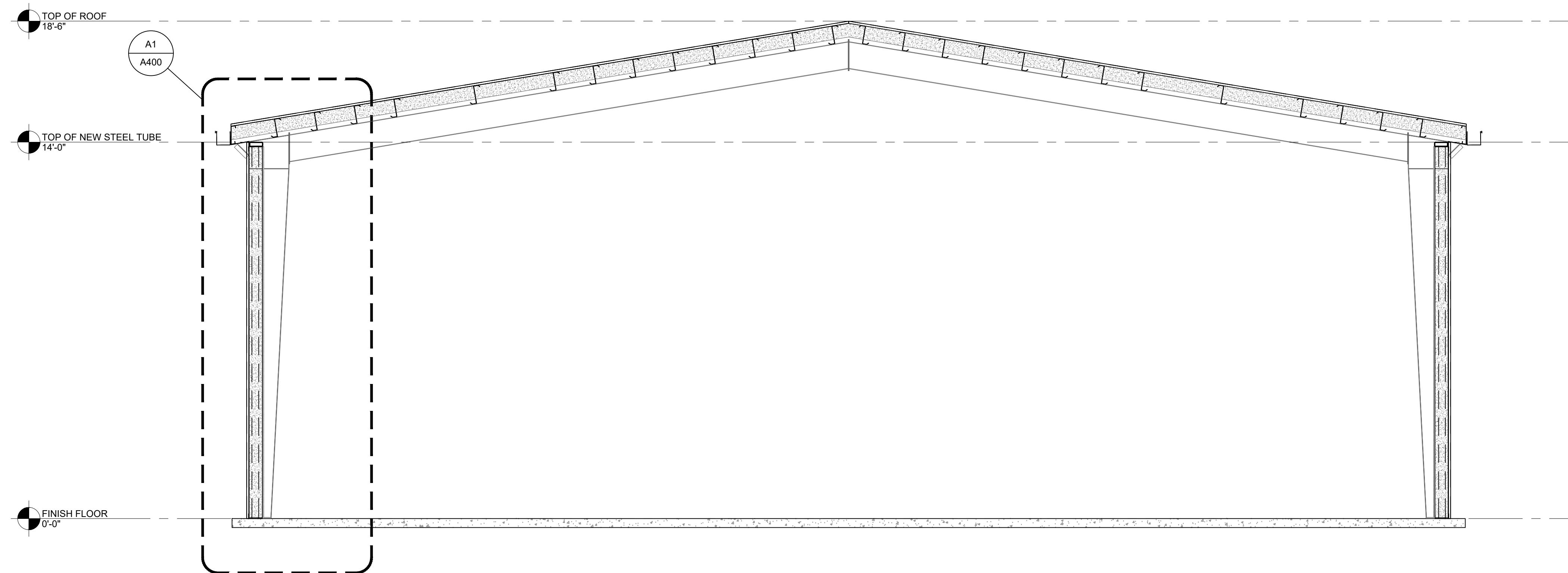
CONSTRUCTION
DOCUMENTS

PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**



B1 BUILDING SECTION

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



A1 BUILDING SECTION

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

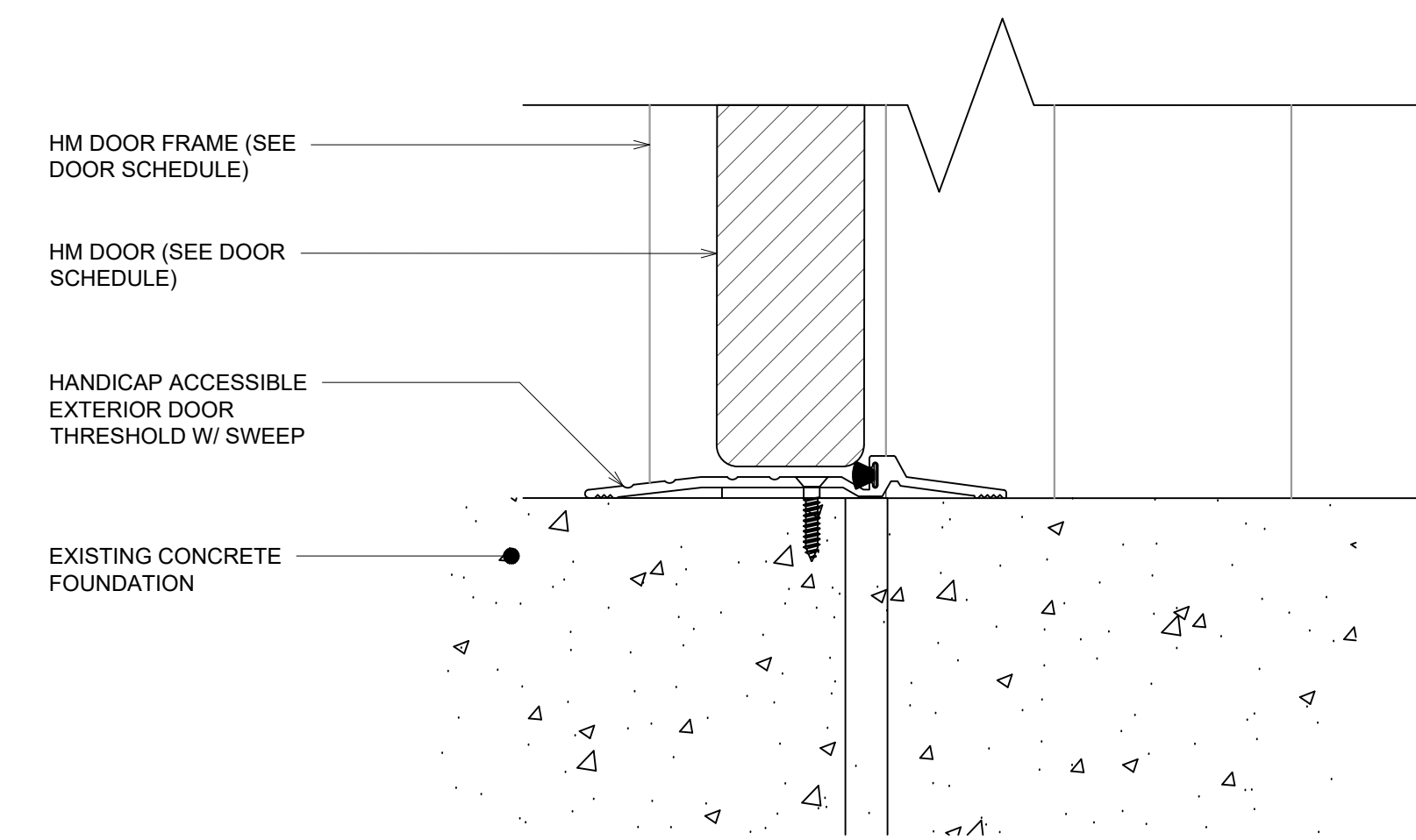
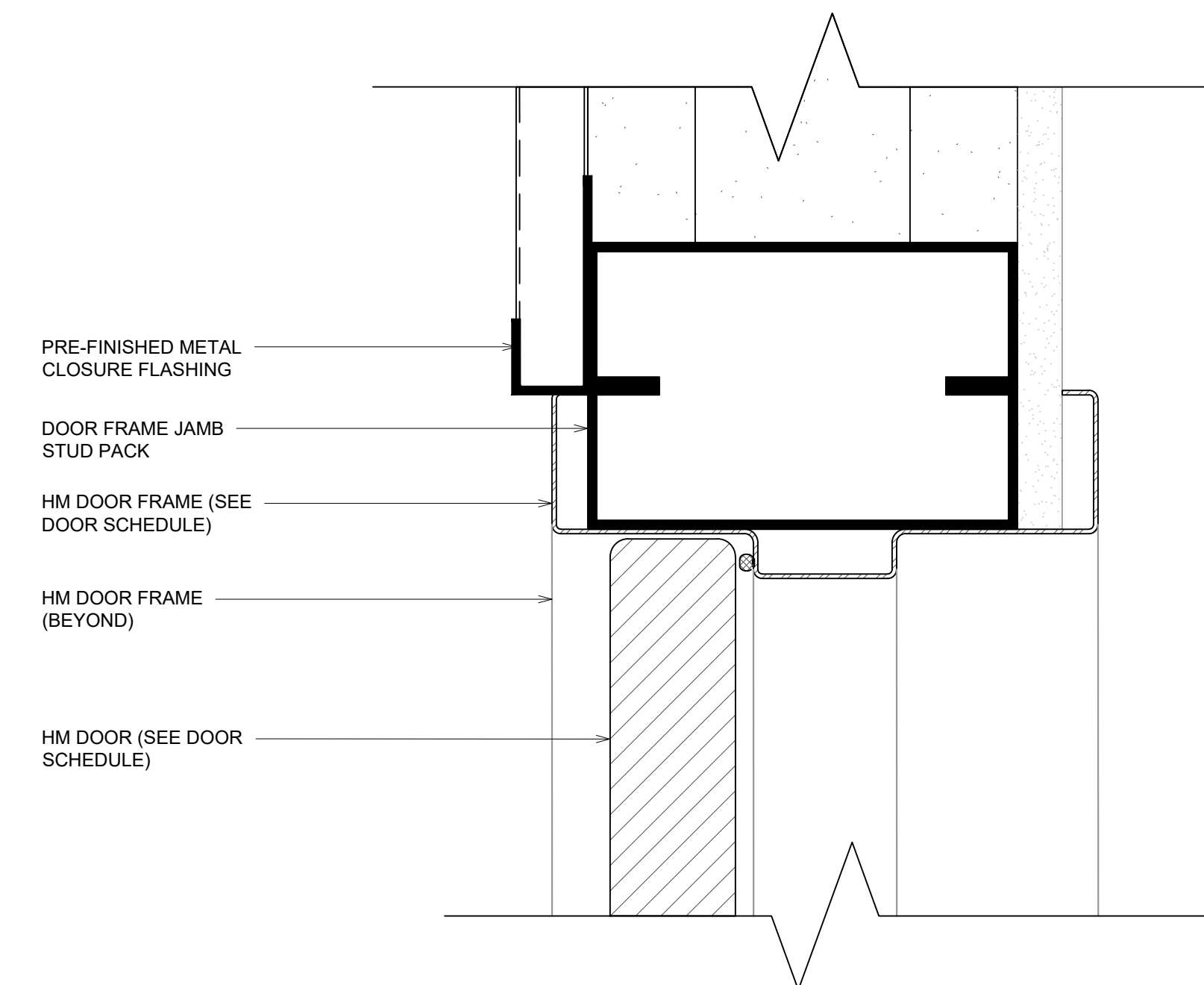
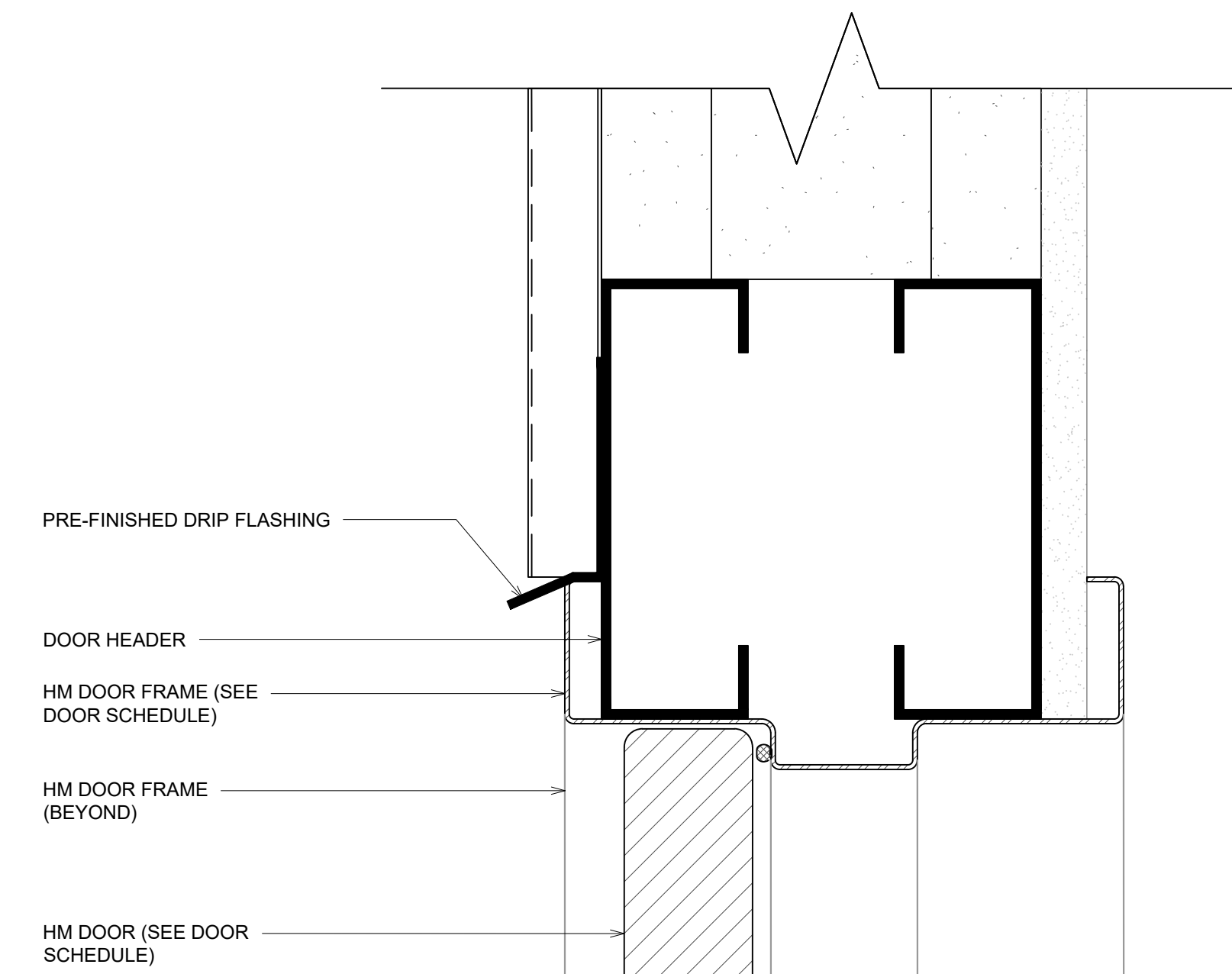
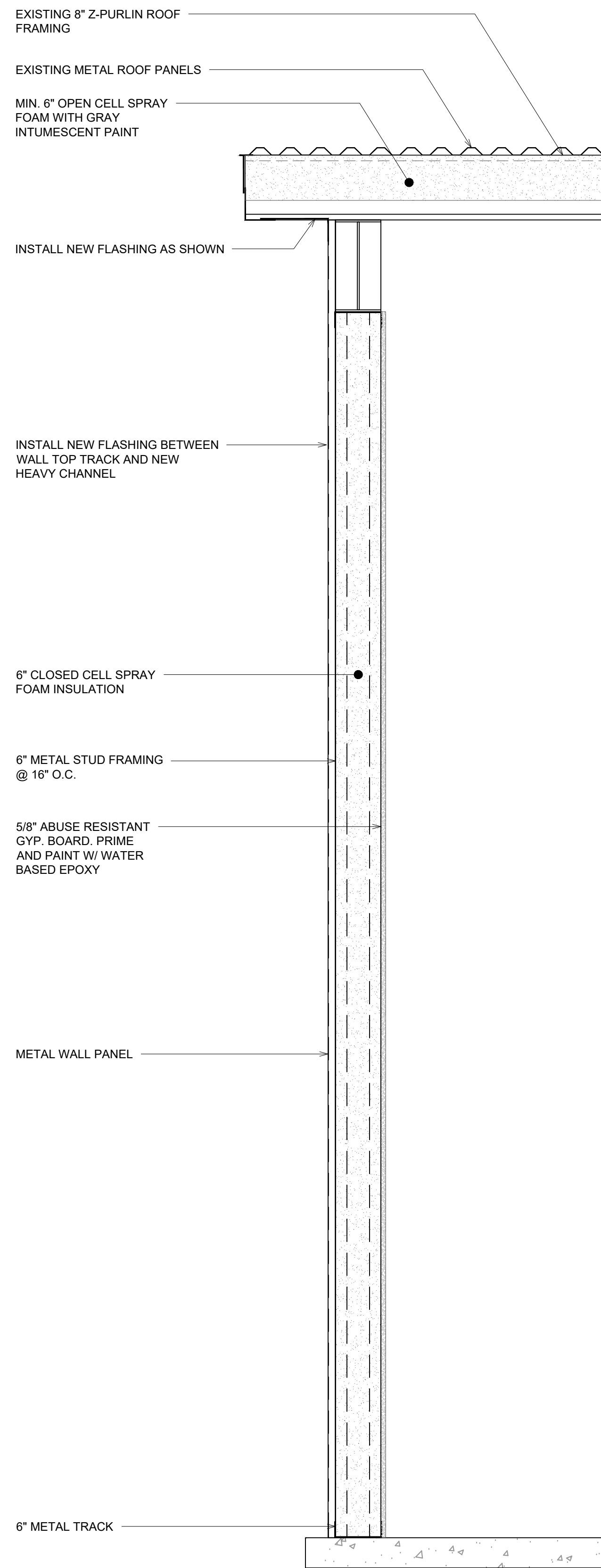
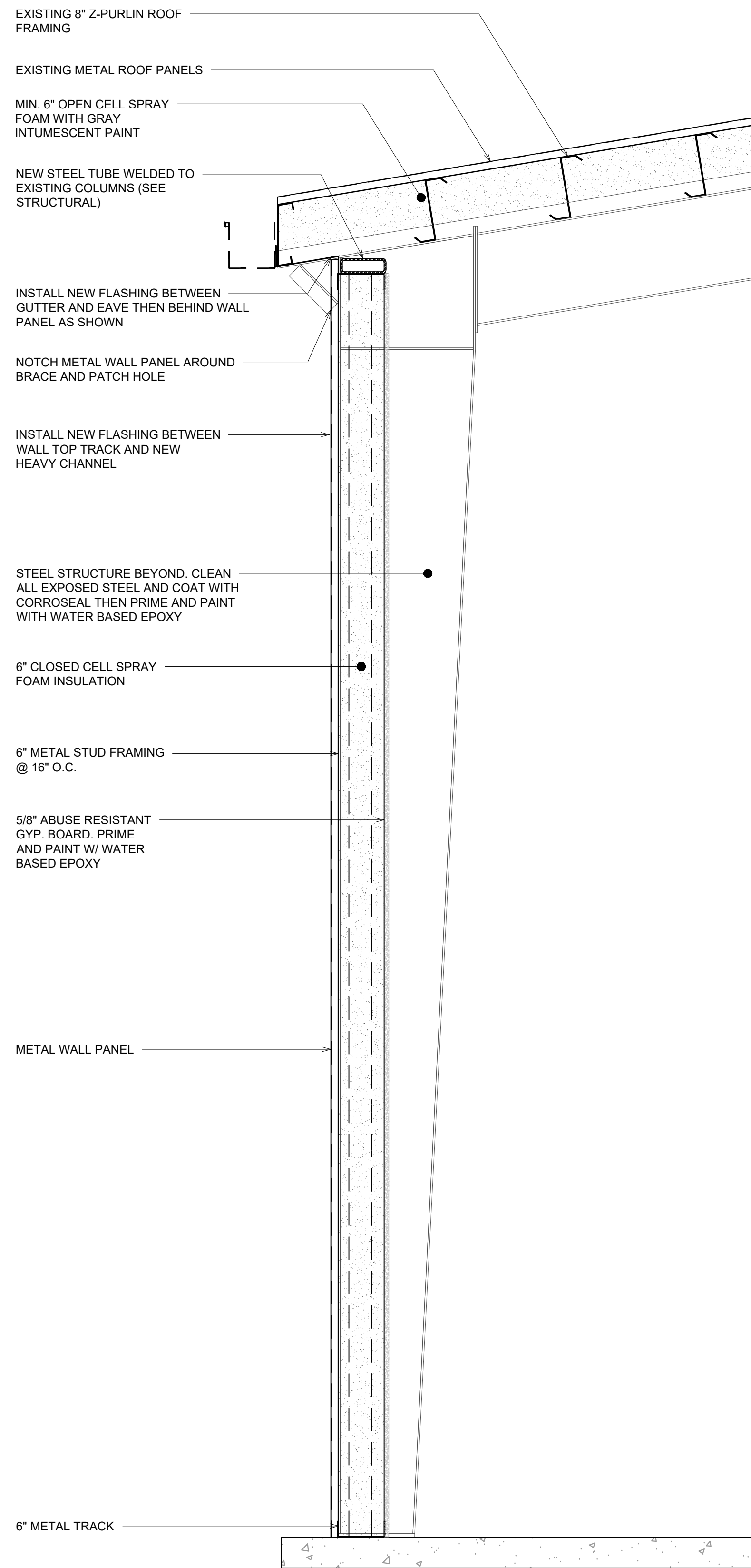
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SECTIONS

PROJECT NUMBER **24042**
DATED 06.21.2024

A300



A1 SECTION DETAIL
SCALE: 1" = 1'-0"

A2 SECTION DETAIL
SCALE: 1" = 1'-0"

A3 DOOR SILL DETAIL
SCALE: 1" = 1'-0"

C1 DOOR HEAD DETAIL
SCALE: 1" = 1'-0"

B1 DOOR JAMB DETAIL
SCALE: 1" = 1'-0"

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SECTION DETAILS

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 June 21, 2024
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DOOR SCHEDULE

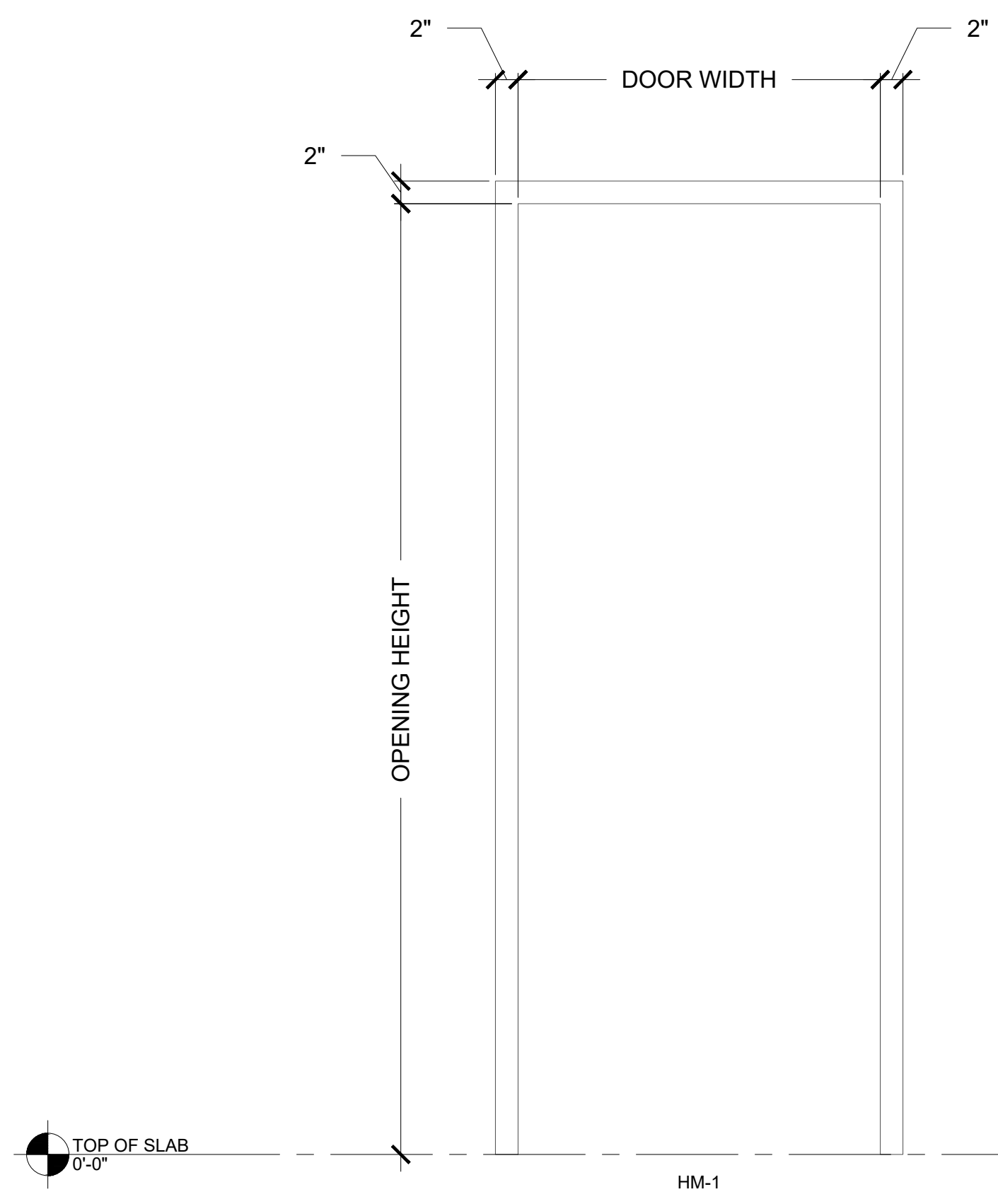
#	DOOR			FRAME			NOTES				REMARKS
	MATERIAL	TYPE	SIZE	TYPE	DETAILS			FIRE RATING	IMPACT RESISTANT	HARDWARE SET	
					HEAD	JAMB	SILL				
100	HM	HL	(2) 3'-0"X7'-0"	HM-1	C1/A400	B1/A400	A3/A400	N/A	YES	~	
100.1	HM	HL	(2) 3'-0"X7'-0"	HM-1	C1/A400	B1/A400	A3/A400	N/A	YES	~	
100.2	HM	HL	3'-0"X7'-0"	HM-1	C1/A400	B1/A400	A3/A400	N/A	YES	~	
200	HM	F	3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
300	HM	F	3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
400	HM	F	(2) 3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
400.1	N/A	F	3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
500	N/A	F	3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
600	N/A	F	3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
700	N/A	F	3'-0"X7'-0"	HM-1	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN

- EXTERIOR DOOR & STOREFRONT NOTES**
- ALL EXTERIOR GLAZING TO BE INSULATED. CLEAR GLAZING WITH LOW-E COATING ON INNER SURFACE OF OUTBOARD LITE.
 - ALL EXTERIOR GLAZING TO COMPLY WITH U-FACTOR AND SHGC REQUIREMENTS IN TABLE 402.4 OF THE 2020 FLORIDA BUILDING CODE-ENERGY CONSERVATION.
 - ALL EXTERIOR GLAZING TO BE IMPACT RESISTANT GLASS RATED FOR LARGE AND TO HAVE FLORIDA PRODUCT APPROVAL NUMBER. MISSILE IMPACT.
 - ALL ALUMINUM FRAMING TO BE PRE-FINISHED. COLOR WHITE.
- DOOR SCHEDULE GENERAL NOTES:**
- A. DOOR MATERIAL ABBREVIATIONS
 AL = ALUMINUM STOREFRONT
 GHM = GALVANIZED HOLLOW METAL
 HM = HOLLOW METAL
 IGHM = INSULATED GALV. HOLLOW METAL
 PH = PRE-HUNG
 STL = STEEL GALVANIZED
 UCD = UNDERCUT DOOR
 WD = SOLID WOOD CORE
 HL = HALF-LITE
- B. UNLESS NOTED OTHERWISE, WHERE GLASS OCCURS IN DOORS PROVIDE TEMPERED GLASS.
- C. UNLESS NOTED OTHERWISE, ALL DOORS ARE 1-3/4" THICK.
- DOOR SCHEDULE REMARKS:**
- DOOR TO BE ALARMED WITH DELAYED EGRESS FUNCTION FULLY COMPLYING WITH FBC SECTION 1008.1.9.7 DELAYED EGRESS LOCKS.
 - DOOR HAS LIMITED OVERHEAD CLEARANCE. VERIFY CLEARANCE REQUIRED FOR PROPOSED DOOR.

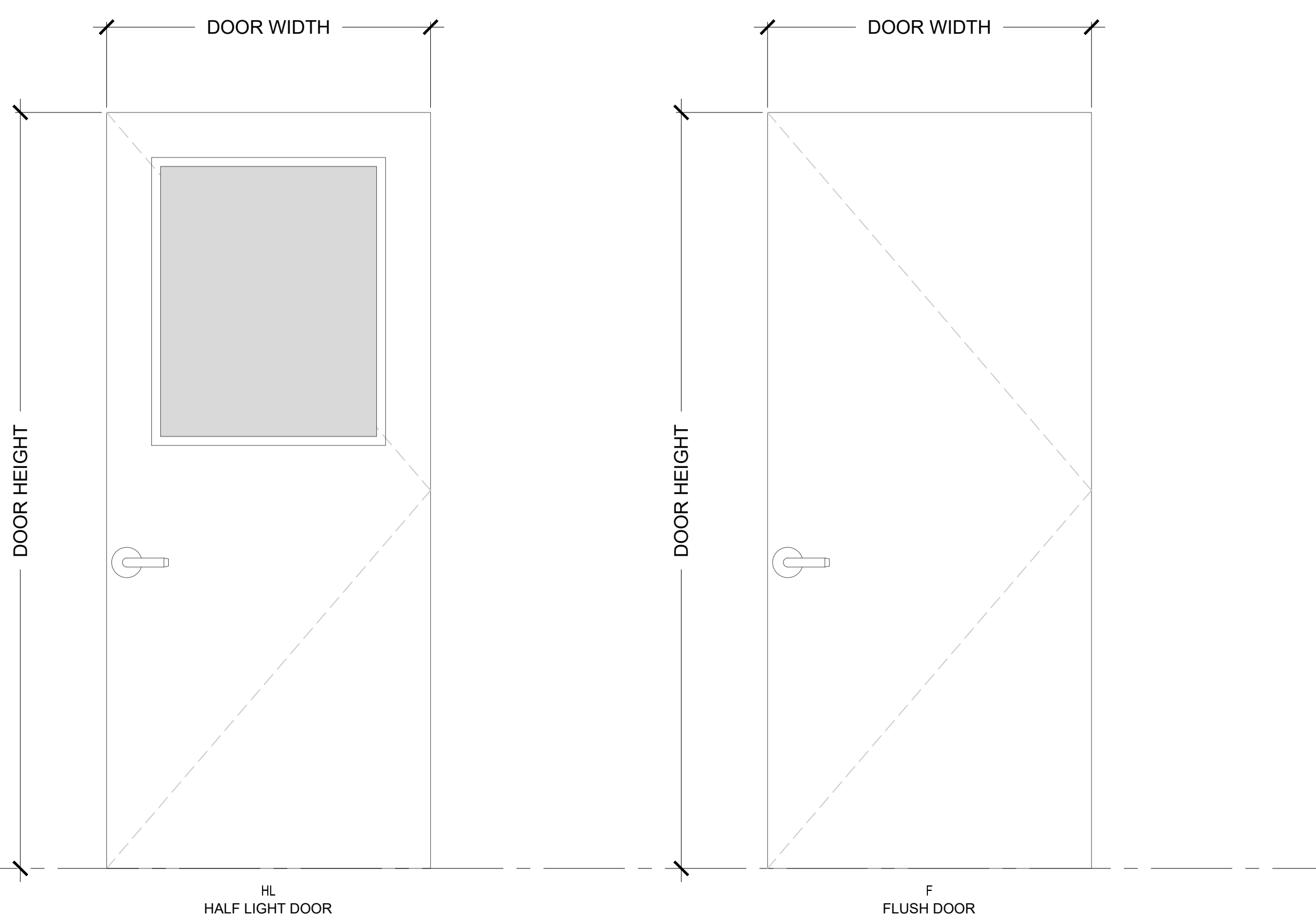


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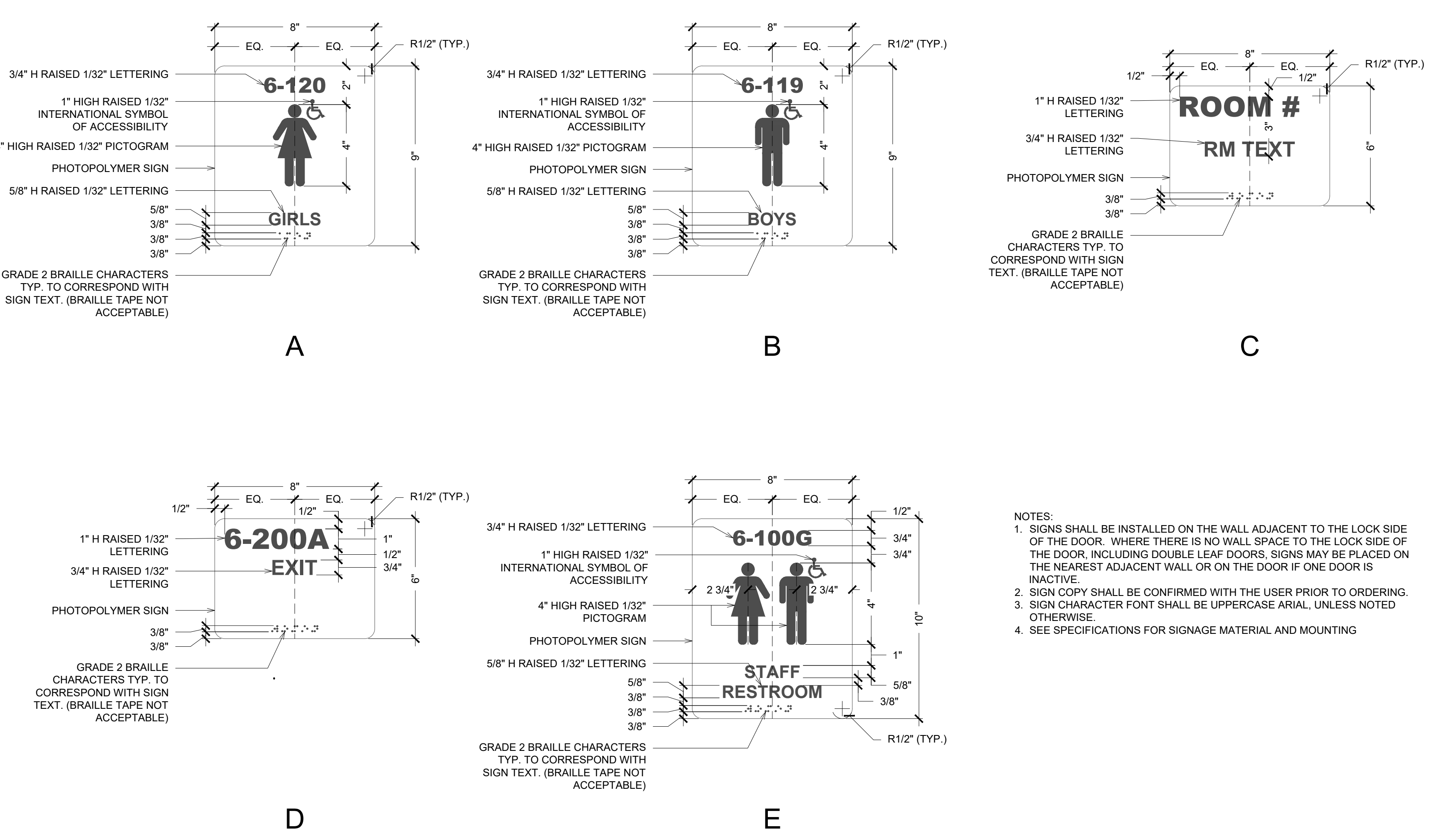
FRAME TYPES



DOOR TYPES

B1 DOOR SCHEDULE & TYPES

SCALE: 1" = 1'-0"



A1 DOOR SIGNAGE TYPES

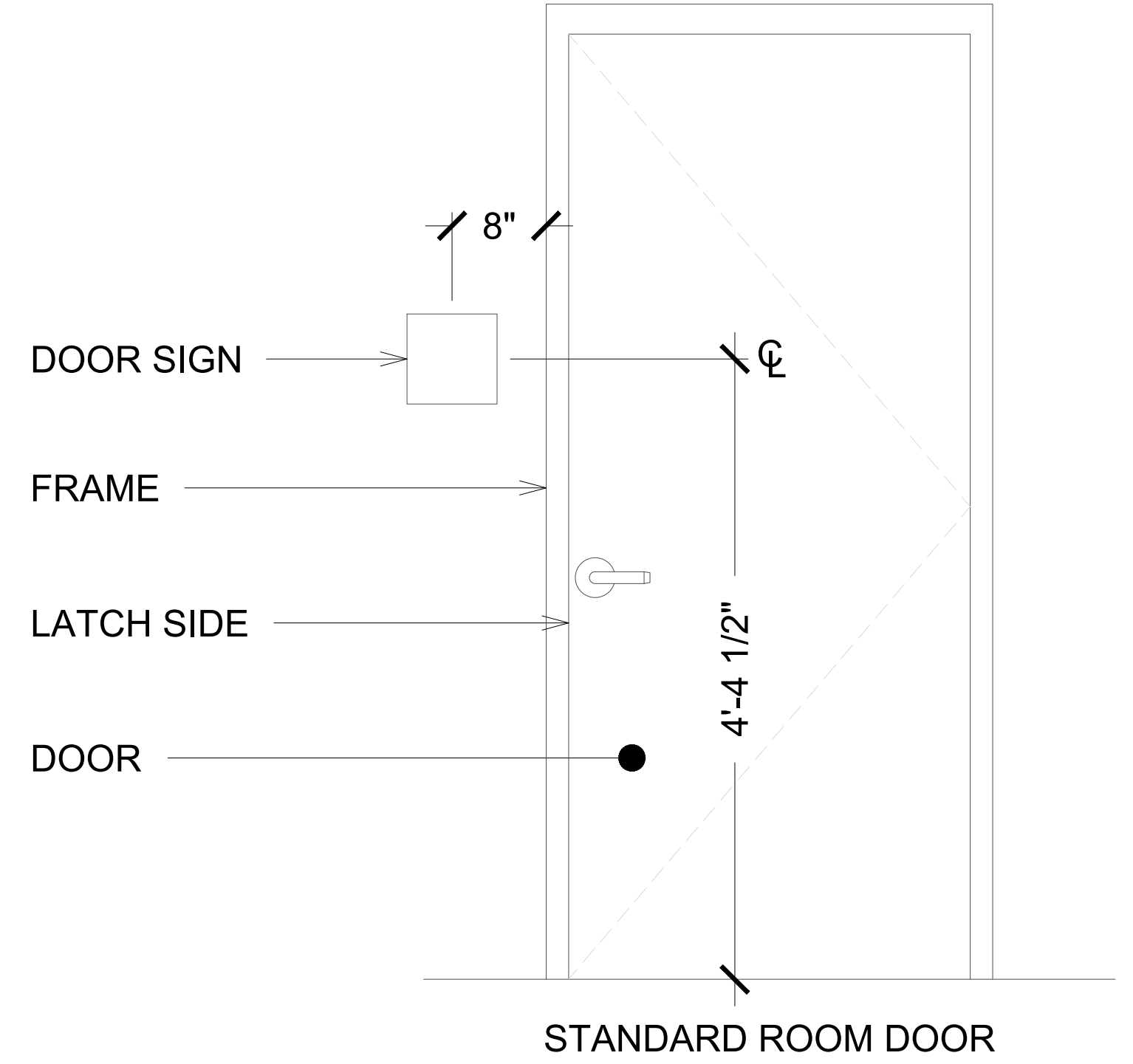
SCALE: 1/2" = 1'-0"

DOOR SIGNAGE SCHEDULE

DOOR #	ROOM NAME	SIGNAGE LABELS		REMARKS
		TYPE	SIGN TEXT	
100	GYM FLOOR	C	GYMNASIUM	ROOM # PER BAY DISTRICT SCHOOLS
100.1	GYM FLOOR	C	GYMNASIUM	ROOM # PER BAY DISTRICT SCHOOLS
100.2	GYM FLOOR	C	GYMNASIUM	ROOM # PER BAY DISTRICT SCHOOLS

A2 DOOR SIGNAGE SCHEDULE

SCALE: 1" = 1'-0"



STANDARD ROOM DOOR

PLANS FOR

DEER POINT ELEMENTARY
 P.E. PAVILION ENCLOSURE

REVISIONS:

No.	Description	Date

DOOR SCHEDULE

PROJECT NUMBER 24042
 DATED 06.21.2024

A500

DEMOLITION NOTES

- 1. ALL EXISTING SYSTEMS AND CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE... 2. IF A DEVICE IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE DEVICE... 3. IF A DEVICE IS BEING REMOVED AND NOT PART OF A DEMO WALL... 4. REMOVE ALL DISCONNECTS, WIRING, AND CONDUITS SERVING MECHANICAL EQUIPMENT... 5. CONTRACTOR TO REMOVE ALL CONDUITS, AND ASSOCIATED WIRING FROM DEVICES BEING REMOVED...

ELECTRICAL GENERAL NOTES

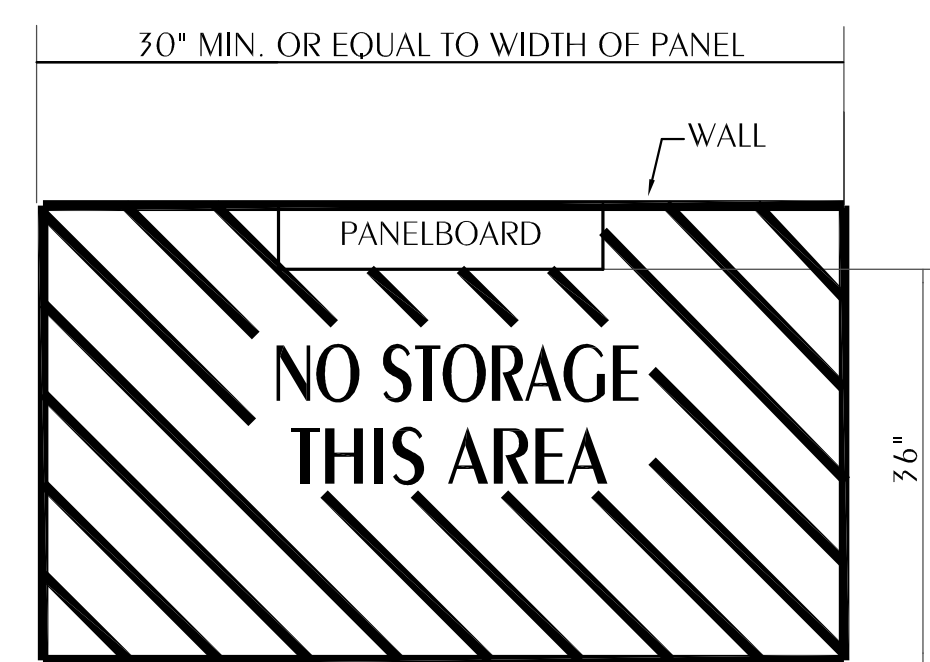
- 1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION... 2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT... 3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT... 5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH... 7. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK... 12. TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16)...

ELECTRICAL LEGEND

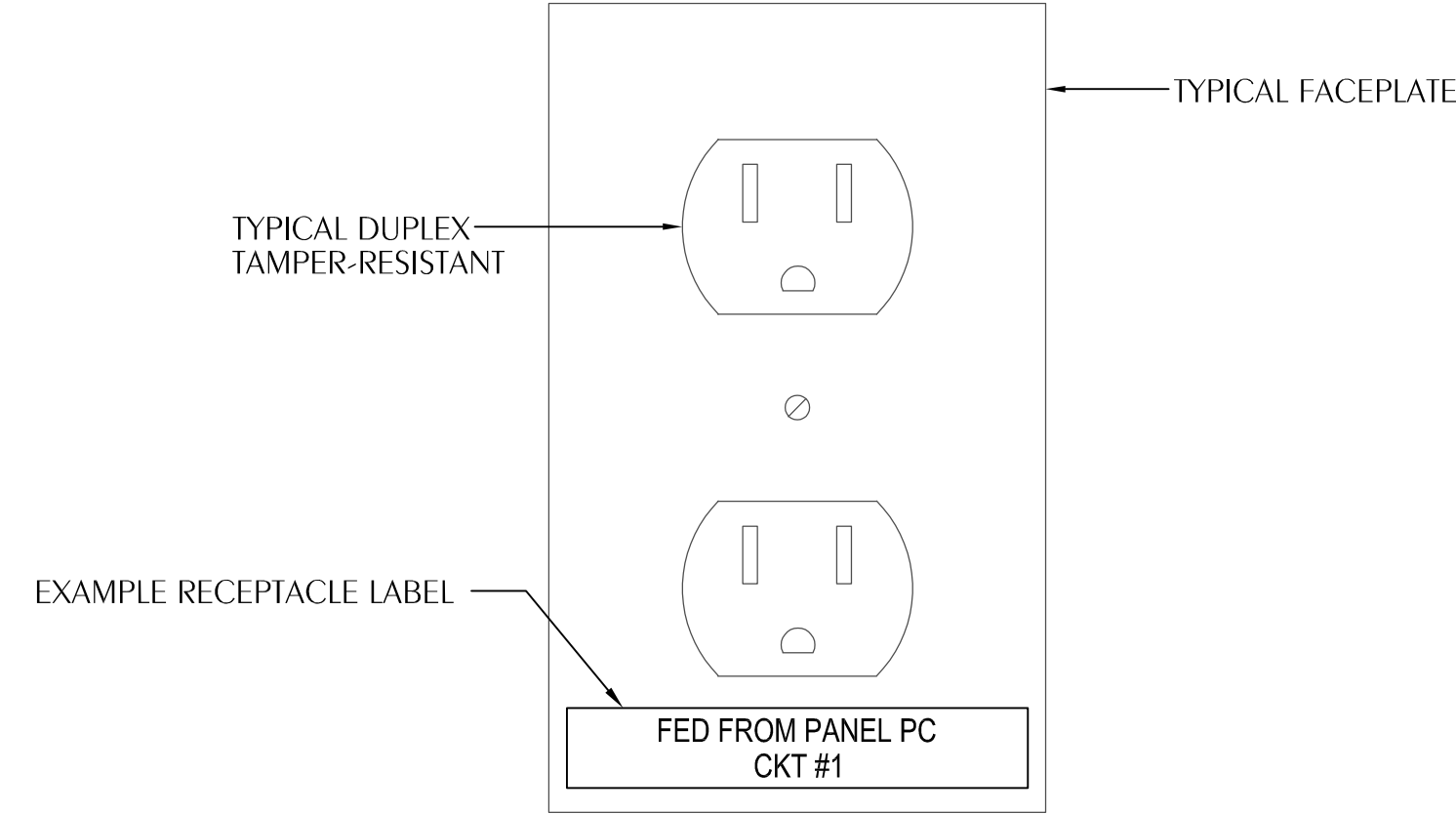
CEILING OUTLETS, AUTOMATIC LIGHTING CONTROL SYSTEM, BRANCH CIRCUITING, TELEPHONE & TV SYSTEM, WALL SWITCHES, WALL MOUNTED OCCUPANCY SENSOR, etc.

EQUALS TO BE SUBMITTED FOR APPROVAL TO ENGINEER 10 DAYS PRIOR TO BID.

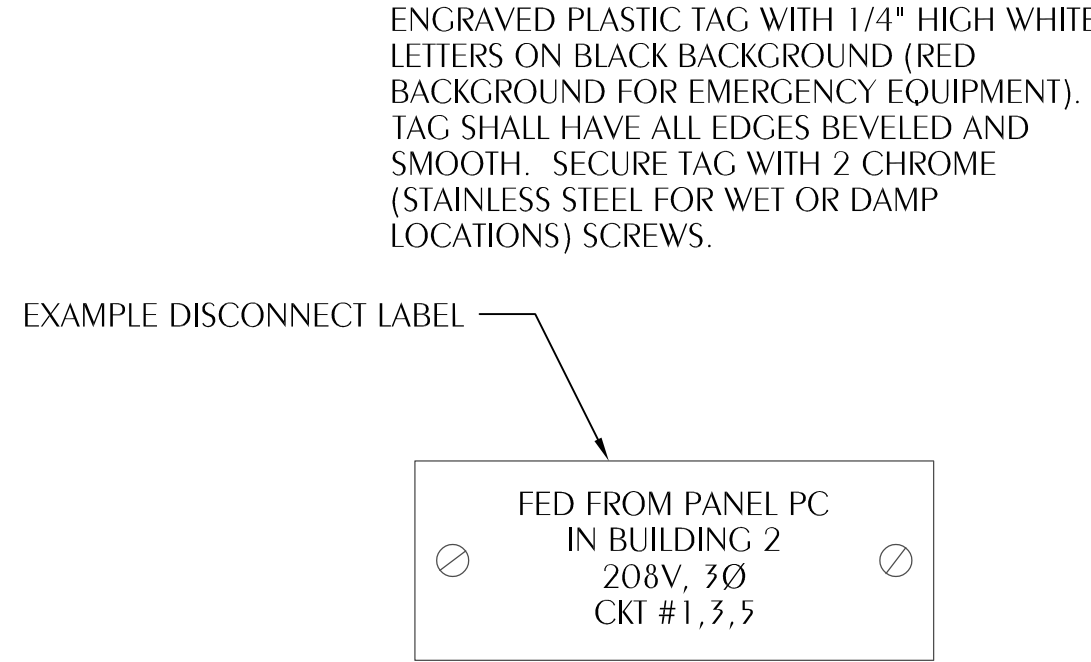
Table with columns: MARK, MANUFACTURER AND CATALOG No., LAMPS (No., TYPE), MOUNTING, REMARKS. Includes entries for BP, BPA, HB, WB, etc.



1 TYPICAL CLEARANCE AT ELECTRICAL PANELS SCALE: NOT TO SCALE



2 TYPICAL FACEPLATE DETAIL SCALE: NOT TO SCALE



3 TYPICAL DISCONNECT LABELING SCALE: NOT TO SCALE



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CONSTRUCTION DOCUMENTS

PLANS FOR DEER POINT ELEMENTARY P.E. PAVILION ENCLOSURE

Table with columns: No., Description, Date. Includes a 'REVISIONS' header.

ELECTRICAL LEGEND, SCHEDULES, DETAILS, AND NOTES

PROJECT NUMBER 20402 DATED 06.21.2024

WATFORD logo and contact information: Florida CA Number: 27825 Anthony Clark, P.E. Florida License Number: 57419 905.532.2447 Project Number: 2040403 Created by: ALD Drawn by: EDW

EXISTING SWITCHBOARD SCHEDULE			BRACED FOR MINIMUM 42,000 AMPS SYMMETRICAL	
CKT	EQUIPMENT SERVED	BREAKER TRIP POLE	LOAD (KW)	
1A	EVH-1	20 2	--	
1B	AHU-7	60 3	--	
2A	AHU-6	45 3	--	
2B	ELEVATOR	90 3	--	
3A	(SPACE) NEW PANEL '4PE'	125 3	68.9	
3B	PANEL 4L3	150 3	--	
4	XFMR TX3	350 3	--	
5A	TP3	100 3	--	
5B	SPACE	- 3	--	
6A	SPACE	- 3	--	
6B	SPACE	- 3	--	
7A	SPACE	- 3	--	
7B	SPACE	- 3	--	
8A	SPACE	- 3	--	
8B	SPACE	- 3	--	

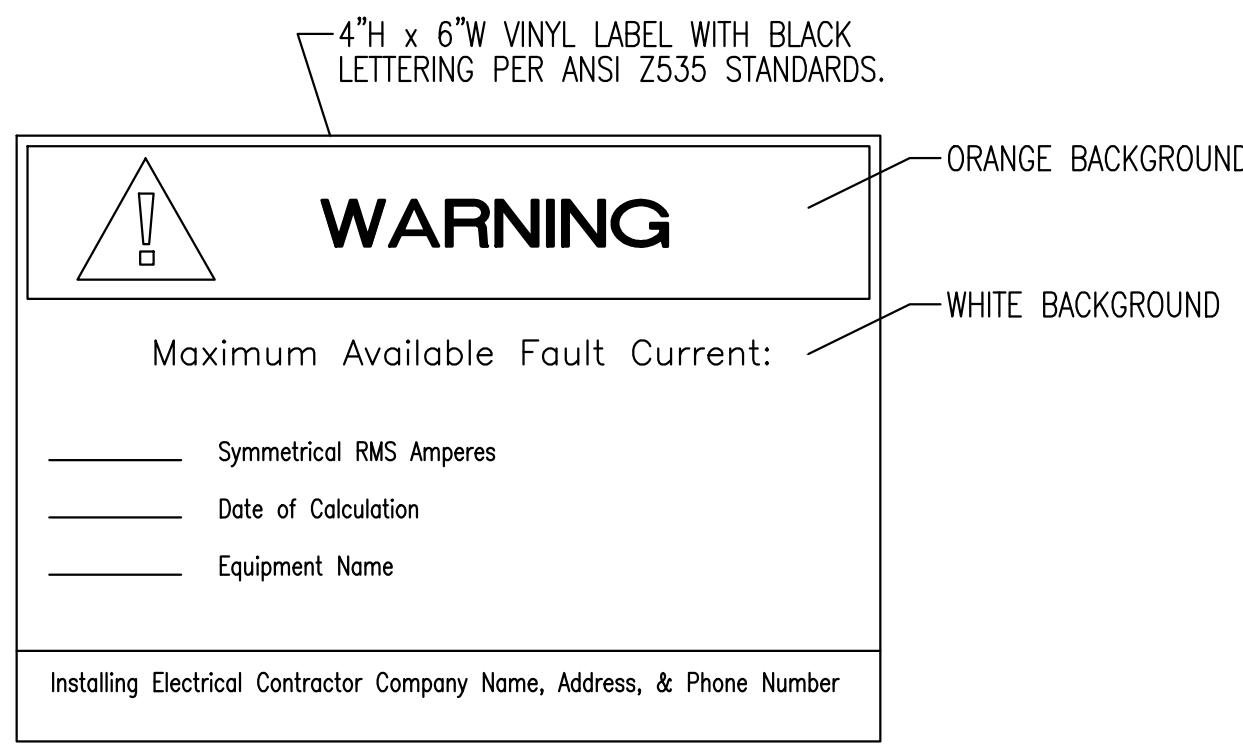
TOTAL CONNECTED LOAD: *LOAD INCREASED BY XX.XX KW
 PER ORIGINAL AS-BUILT DRAWINGS, PANEL '4M3' HAD A CONNECTED LOAD OF 310.9 KVA (3741.1 AMPS) FED VIA 600A BREAKER IN MAIN SWITCHBOARD '4MS'.
 INSTALL NEW 125/3 HACR BREAKER. VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED.

CIRCUIT BREAKER PANEL SCHEDULE					FLUSH MOUNTED NEMA 1 ENCLOSURE	
EXISTING PANEL '2PE'						
CKT	LOAD DESCRIPTION	BREAKER POLE AMP	LOAD KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT
1	LTS-105/105A/104/103/103A/101/102	1 20	--	20	1 COMP CABINET	2
3	REC-105	1 20	--	20	1 EWC	4
5	REC-103A/103	1 20	--	20	1 FIRE ALARM	6
7	SPARE	1 20	--	20	1 REC-EXTERIOR	8
9	HAND DRYER	1 20	--	20	1 EXISTING	10
11	REC-105/104	1 20	0.6	20	1 (LTS-100) LIS-GYM 101	12
13	SPARE	2 20	0.54	20	1 (SPARE) LIS-EXTERIOR	14
15	SPARE	2 20	0.6	20	1 (SPARE) LIS-GYM 101	16
17	(CU-2) SPARE	2 20	--	20	2 SPARE	18
19	SPARE	2 20	--	20	2 SPARE	20
21	(AHU-2) AHU-2	4 40	6.32	40	2 WATER HEATER	22
23	SPARE	2 20	--	20	2 SPARE	24
25	SPARE	2 20	--	20	2 SPARE	26
27	SPARE	2 20	--	20	2 SPARE	28
29	SPARE	2 20	--	20	2 SPARE	30
31	SPARE	2 20	--	20	2 SPARE	32
33	(SPACE) CU-2	(1) 2 (1) 20	2.50	20	2 (SPACE) REC-GYM 101 (NORTH)	34
35	(SPACE)	(1) 1 (1) 20	1.08	20	2 (SPACE) REC-GYM 101 (WEST)	36
37	SPACE	1 1	1.08	20	1 (SPACE) REC-GYM 101 (SOUTH)	38
39	SPACE	1 1	1.08	20	1 (SPACE) REC-GYM 101 (SOUTH)	40
41	SPACE	1 1	--	20	1 SPACE	42

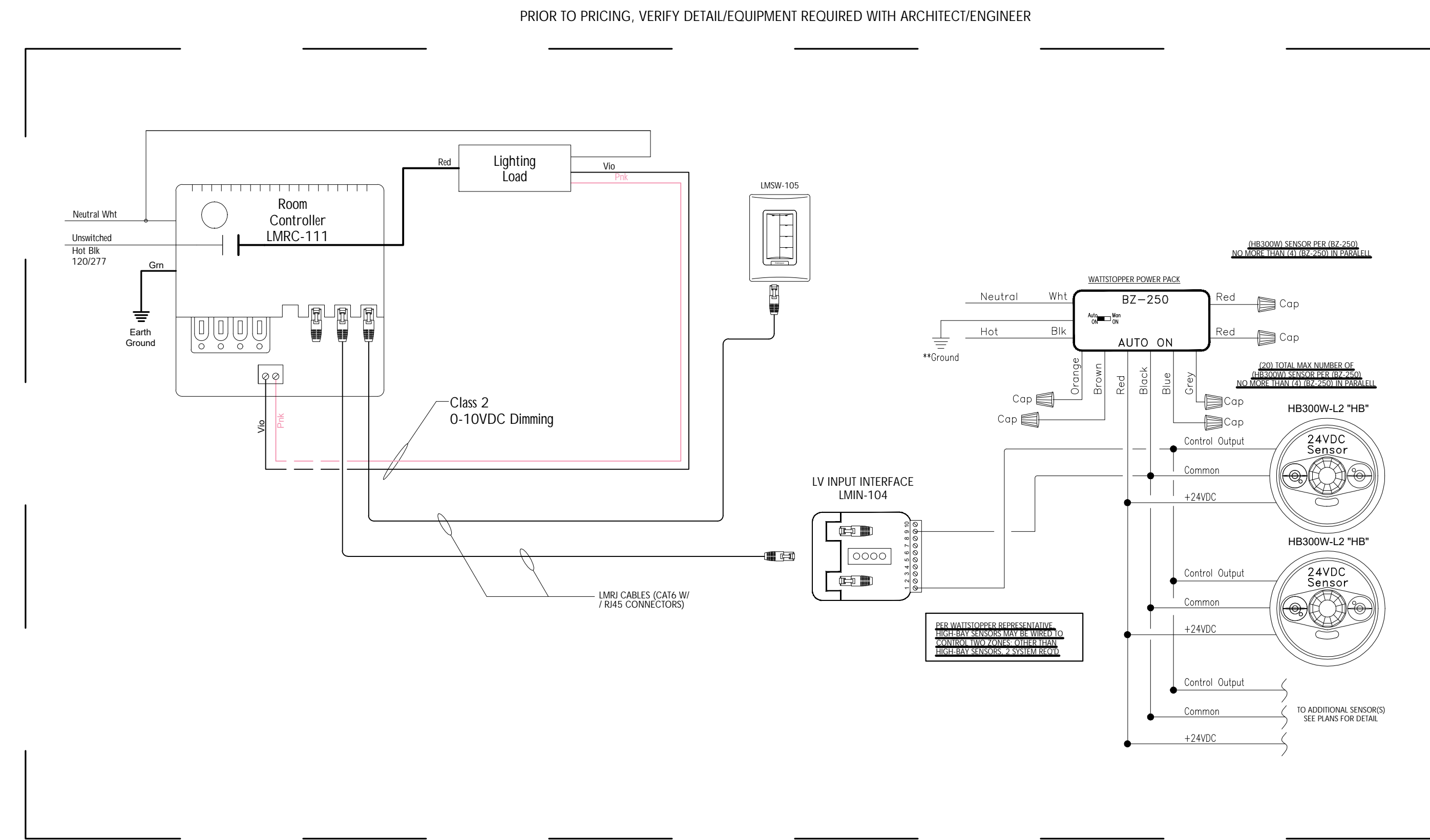
TOTAL CONNECTED LOAD: 27.7 KVA
 MINIMUM INTERRUPTING CAPACITY: MATCH EXISTING
 PER PREVIOUS AS-BUILT DRAWINGS, CONNECTED LOAD IS 23.4 KVA. WITH THE EXISTING LOADS BEING REMOVED AND NEW LOADS ADDED, THE NEW LOAD IS 27.7 KVA.

CIRCUIT BREAKER PANEL SCHEDULE					SURFACE MOUNTED NEMA 3R LOCKABLE ENCLOSURE	
NEW PANEL '4PE'						
CKT	LOAD DESCRIPTION	BREAKER POLE AMP	LOAD KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT
3	PHP-1	3 70	41.22	20	1 SPARE	2
5	SPARE	1 20	--	20	1 SPARE	4
7	SPARE	1 20	--	20	1 SPARE	6
9	SPACE	3 20	--	20	1 SPARE	8
11	SPARE	1 20	--	20	1 SPARE	10
13	SPARE	1 20	--	20	1 SPARE	12
15	SPACE	3 20	--	20	1 SPARE	14
17	SPACE	1 20	--	20	1 SPARE	16
19	SPACE	1 20	--	20	1 SPARE	18
21	TRANSFORMER 'TXPE'	3 50	27.7	30	3 SURGE SUPPRESSOR	20
23	SPACE	1 20	--	20	1 SPARE	22

TOTAL CONNECTED LOAD: 68.9 KVA
 MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL



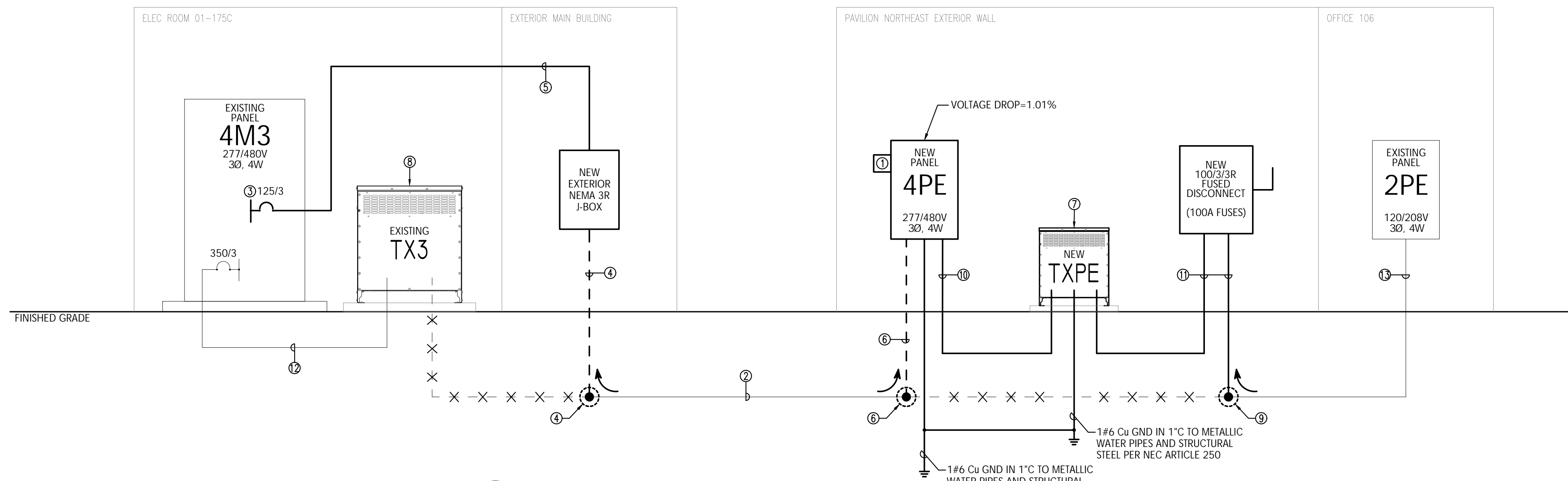
TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL
 NOT TO SCALE



DIGITAL LIGHTING MANAGEMENT SYSTEM 'DLM' WIRING DETAIL
 SCALE: NOT TO SCALE

KEYNOTES

- 1 SURGE SUPPRESSOR - INSTALL PER SPECIFICATIONS.
- 2 EXISTING 4/1, 1#6GND FEEDER TO REMAIN.
- 3 FURNISH/INSTALL NEW 125/3 BREAKER, IN AVAILABLE SPACE OF EXISTING SWITCHBOARD '4M3', TO FEED NEW PANEL '4PE'. NOTE: EXISTING SWITCHBOARD IS GENERAL ELECTRIC SPECTRA SERIES: 277/480V, 30, 4W, 600A MAIN BREAKER, SINGLE SECTION, NEMA 1 ENCLOSURE. EC TO FIELD VERIFY EXACT SIZE AND TYPE OF BREAKER REQUIRED.
- 4 DISCONNECT FEEDER FROM INSIDE EXISTING TRANSFORMER TX3. LOCATE WHERE EXISTING UNDERGROUND FEEDER TO EXISTING PANEL '2PE' LEAVES THE FOOTPRINT OF MAIN BUILDING. CAREFULLY EXPOSE EXISTING CONDUCTORS AND TURN UP INTO NEW WEATHERPROOF JUNCTION CABINET. MOUNT JUNCTION CABINET ON EXTERIOR WALL OF MAIN BUILDING NEAR EXISTING UNDERGROUND CONDUIT LOCATION. SEE KEYNOTE #6, THIS SHEET, BEFORE REMOVING EXCESS CONDUIT LENGTH. NOTE: ORIGINAL 120/208V FEEDER OF #1, 1#6 GND WILL BYPASS EXISTING TRANSFORMER 'TX3' TO ALLOW EXISTING UNDERGROUND FEEDER TO BE REPURPOSED TO SERVE NEW 277/480V PANEL AT PAVILION.
- 5 INSTALL 3#1, 1#1 NEUTRAL, 1#6 GND IN 2". ROUTE OVERHEAD FROM NEW EXTERIOR JUNCTION BOX TO NEW 125/3 BREAKER. COORDINATE OVERHEAD ROUTING WITH OWNER/GC. SEE KEYNOTE #3, THIS SHEET FOR EXISTING SWITCHBOARD '4M3' DETAILS.
- 6 LOCATE WHERE EXISTING UNDERGROUND FEEDER TO EXISTING PANEL '2PE' ENTERS EXISTING CMU PORTION OF PAVILION. CAREFULLY EXPOSE EXISTING CONDUCTORS, DISCONNECT FROM PANEL '2PE' TO ALLOW ADDITIONAL CONDUIT NEEDED TO TURN UP INTO NEW PANEL '4PE'. NEW PANEL TO BE LOCKABLE, NEMA 3R, 277/480V PANEL AND IS TO BE MOUNTED ON NORTHEAST EXTERIOR WALL OF PAVILION. IF IS FOUND THAT FEEDER ENTERS ON ON NORTH SIDE OF OFFICE, NEW GEAR MAY BE INSTALLED AT THAT LOCATION. SEE SHEET '201'.
- 7 FURNISH/INSTALL NEW 45KVA DRY TYPE TRANSFORMER: 480V Δ - 208Y/120V. FURNISH CONCRETE PAD AND WEATHERSHIELD.
- 8 EXISTING TRANSFORMER 'TX3' TO REMAIN.
- 9 RECONNECT LOAD SIDE OF NEW FUSED DISCONNECT TO EXISTING UNDERGROUND FEEDER TO RE-FEED EXISTING PANEL '2PE'.
- 10 INSTALL 3#8, 1#10 GND, IN 3/4".
- 11 INSTALL 4#3, 1#8 GND, IN 1-1/2".
- 12 EXISTING FEEDER TO REMAIN.
- 13 INSTALL 4#3, 1#8GND IN EXISTING CONDUIT.



POWER RISER DIAGRAM
 SCALE: NOT TO SCALE



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PLANS FOR
 DEER POINT ELEMENTARY
 P.E. PAVILION ENCLOSURE

REVISIONS:		
No.	Description	Date

PANEL SCHEDULES AND POWER RISER DIAGRAM

PROJECT NUMBER: 24042
 DATED: 06.21.2024





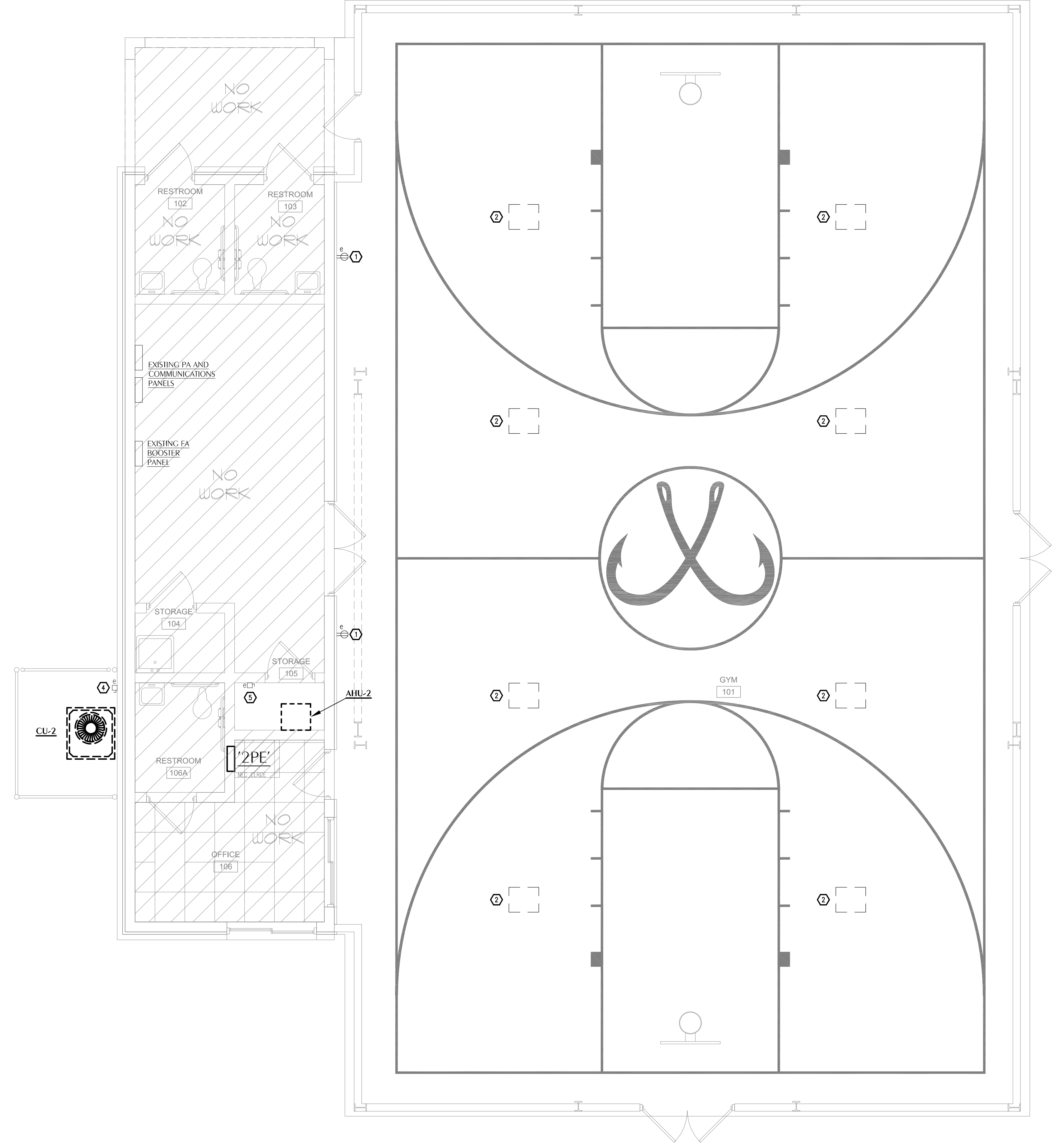
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DOCUMENTS

PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

SHEET NOTES

- ① EXISTING RECEPTACLE TO REMAIN.
- ② HIGH BAY LIGHTING FIXTURE TO BE REMOVED. EXISTING CIRCUIT TO BE REMOVED BACK TO PANEL. EXISTING RACEWAYS AND BREAKER TO REMAIN AND BE REUSED WITH NEW CIRCUIT. EXISTING SWITCHES ARE TO BE REMOVED AND RELOCATED WITH NEW THREE-WAY SWITCHING LOCATED IN NEW WALLS. SEE SHEET 'E301'.
- ③ EXISTING LIGHTING FIXTURE TO BE REMOVED. EXISTING CIRCUIT TO REMAIN TO BE RECONNECTED TO NEW LIGHTING FIXTURE. REMOVE MANUAL WALL SWITCHES. PREPARE FOR INSTALLATION OF OCCUPANCY SENSING LIGHT SWITCH. SEE SHEET 'E301'.
- ④ EXISTING OUTDOOR CONDENSING UNIT TO BE REMOVED BY OTHERS. PER MECHANICAL DESIGN, NEW UNIT REQUIRES LARGER CIRCUIT. EXISTING DISCONNECT TO REMAIN, REMOVE ENTIRE CIRCUIT BACK TO PANEL. LABEL EXISTING 20/2 BREAKER IN SPACES 17/19 OF PANEL '2PE' AS SPARE. SEE SHEET 'E201' FOR NEW WORK.
- ⑤ EXISTING AIR HANDLING UNIT TO BE REMOVED BY OTHERS. EXISTING CIRCUIT, DISCONNECT, AND BREAKER TO REMAIN AND BE REUSED FOR NEW UNIT.



ELECTRICAL DEMO PLAN
E101 SCALE: 1/4" = 1'-0"

REVISIONS:

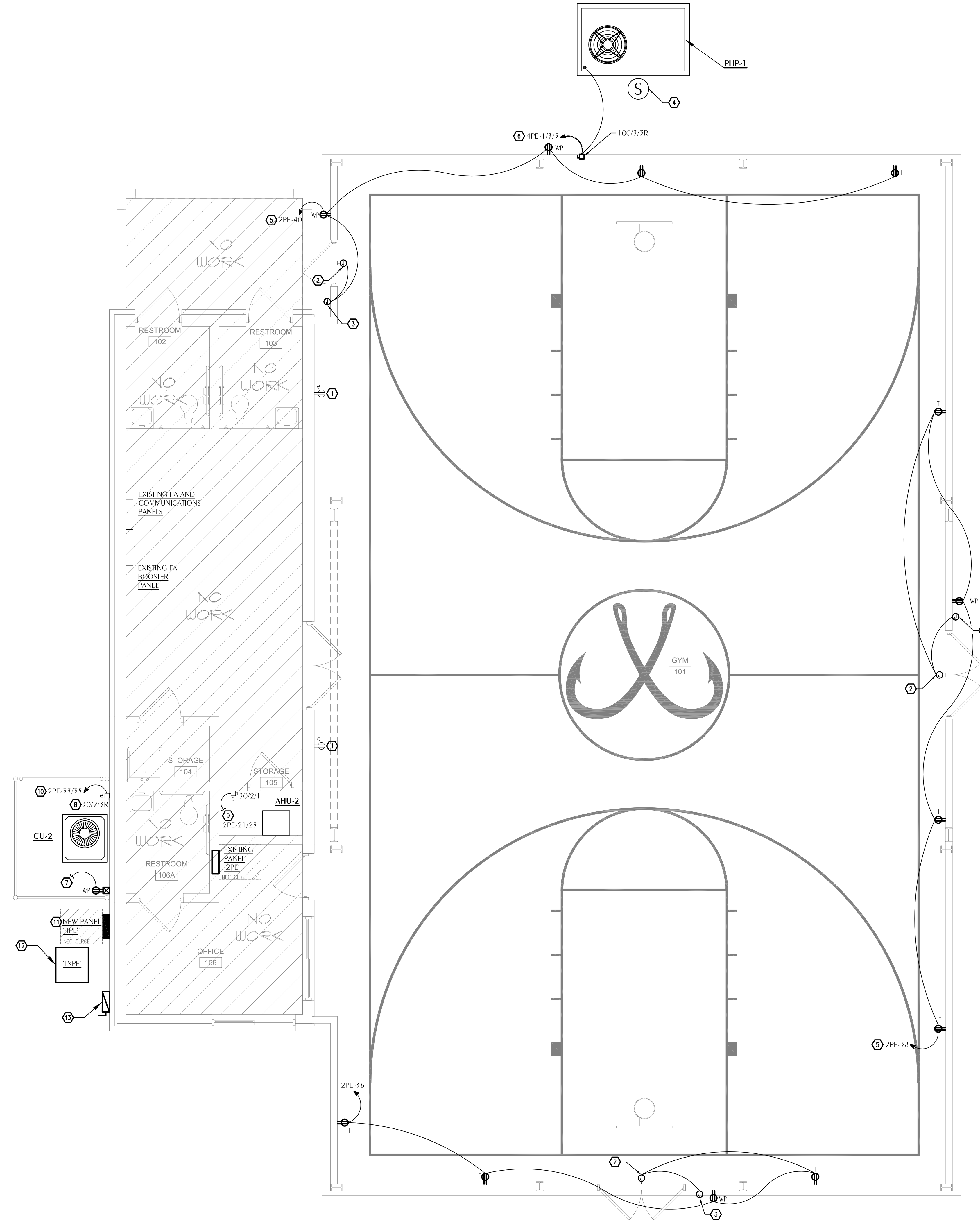
No.	Description	Date

ELECTRICAL DEMO PLAN

WATFORD
ELECTRICAL ENGINEERS
4452 Clinton Street Marietta, Florida 32846
311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27825
Anthony Clark, P.E.
Florida License Number: 57419
901.521.2447
Project Number: 2024-033
Checked By: ALLD
Drawn By: EJKU

PROJECT NUMBER **24042**
DATED **06.21.2024**



ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. REPLACE EXISTING WEATHERPROOF GFCI RECEPTACLES WITH NEW TAMPER RESISTANT GFCI RECEPTACLES. INSTALL NEW DEVICE IN EXISTING LOCATION. RECONNECT TO EXISTING CIRCUIT.
2. EC TO FURNISH/INSTALL SURFACE MOUNTED J-BOX ABOVE DOOR TO ACCOMMODATE CARD ACCESS DOOR POWER SUPPLY, CONTROL WIRING, AND DOOR LOCK MECHANISM WIRING. COORDINATE WITH SECURITY CONTRACTOR FOR EXACT MOUNTING LOCATION, SIZE OF J-BOX AND SPECIFIC SYSTEM REQUIREMENTS.
3. EC TO FURNISH/INSTALL J-BOX AND 3/4" C TO ACCESSIBLE LOCATION ABOVE SECURE SIDE OF DOOR FOR SECURITY KEYPAD/CARD READER. COORDINATE WITH SECURITY CONTRACTOR FOR MOUNTING REQUIREMENTS OF J-BOX. SECURITY CONTRACTOR TO INSTALL DEVICE(S) AND CABLING.
4. EC TO COORDINATE WITH MECHANICAL CONTRACTOR/FIRE ALARM CONTRACTOR FOR INSTALLATION OF DUCT-MOUNTED SMOKE DETECTOR TO ENSURE THEY ARE INTEGRATED INTO BUILDING FIRE ALARM SYSTEM AND SET TO INITIATE SUPERVISORY SIGNAL. SEE SHEET "E401".
5. TO COMBAT VOLTAGE DROP AND COMPLY WITH NEC, ENTIRE CIRCUIT TO BE A MIN. OF #10CU.
6. INSTALL 3#4, 1#8 GND IN 1-1/4" C.
7. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT, AHEAD OF LOCAL SWITCH.
8. AT TIME OF DESIGN, UNKNOWN IF EXISTING DISCONNECT IS FUSED OR NON-FUSED. IF FUSED, FIELD COORDINATE WITH HVAC EQUIPMENT SUPPLIER AND REPLACE FUSES AS NEEDED TO COMPLY WITH MANUFACTURER NAMEPLATE.
9. PER MECHANICAL DESIGN, ELECTRICAL REQUIREMENTS FOR NEW UNIT ARE THE SAME AS PREVIOUS UNIT, RECONNECT TO EXISTING CIRCUIT.
10. PER MECHANICAL DESIGN, ELECTRICAL REQUIREMENTS FOR NEW UNIT ARE GREATER THAN PREVIOUS UNIT. INSTALL NEW 2#10, 1#10, IN 3/4" C FROM EXISTING DISCONNECT TO NEW 25/2 HACR BREAKER IN SPACES INDICATED OF EXISTING PANEL "2PE".
11. INSTALL NEW 277/480V, 3Ø, 4W, PANELBOARD "4PE". PROVIDE LOCKABLE NEMA 3R ENCLOSURE. MOUNT TO EXTERIOR WALL AND CONNECT TO REPURPOSED EXISTING UNDERGROUND FEEDER PREVIOUSLY USED TO FEED EXISTING PANEL "2PE". SEE POWER RISER DIAGRAM ON SHEET "E002" FOR MORE INFORMATION.
12. INSTALL NEW 45KVA 480V DELTA - 208Y/120V DRY TYPE, STEP DOWN TRANSFORMER "TXPE". FURNISH WITH WEATHERSHIELD AND CONCRETE PAD. SEE POWER RISER DIAGRAM ON SHEET "E002" FOR MORE INFORMATION.
13. INSTALL NEW 100/3/3R FUSED DISCONNECT WITH 100 AMP FUSES TO CONNECT LOAD SIDE OF NEW TRANSFORMER "TXPE" TO EXISTING UNDERGROUND FEEDER TO EXISTING PANEL "2PE". SEE POWER RISER DIAGRAM ON SHEET "E002" FOR MORE INFORMATION.



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PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

REVISIONS:

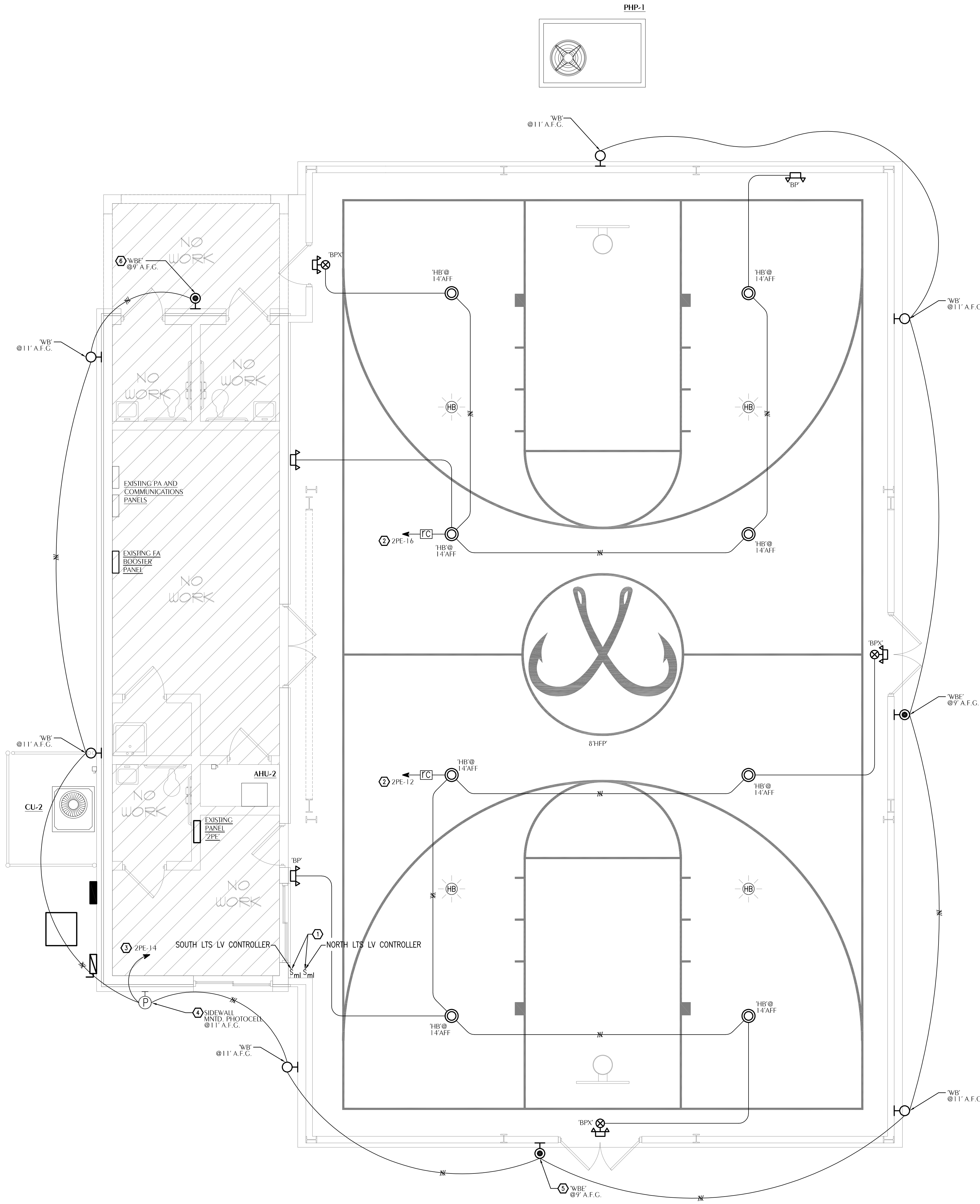
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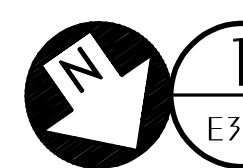
ELECTRICAL POWER PLAN

PROJECT NUMBER **24042**
DATED **06.21.2024**

WATFORD
4452 Clinton Street Marietta, Florida 32446
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Florida CA Number: 27825
Anthony Clark, P.E.
Florida License Number: 67419
903.952.3447
Project Number: 2404-003
Checked By: ALLD
Drawn By: EJKU



 **ELECTRICAL LIGHTING PLAN**
E301 SCALE: 1/4" = 1'-0"

GENERAL NOTE(S)

1. PROVIDE WIRE GUARDS FOR ALL NEW LIGHTING AND EMERGENCY LIGHTING FIXTURES IN SPORTS FLOOR AREA.

SHEET NOTES

- ① PRIOR TO ROUGH-IN, FIELD-VERIFY EXACT LOCATION OF LOW-VOLTAGE SWITCH WITH GC/OWNER.
- ② INSTALL NEW CIRCUITS (#10CU MIN) FOR LED HIGH-BAY FIXTURES. RECONNECT TO EXISTING BREAKER, IN SPACE INDICATED, OF EXISTING PANEL '2PE'. CIRCUIT TO BE ROUTED VIA 'RC' (ROOM CONTROLLER). FIELD-COORDINATE LOCATION OF 'RC'. REFER TO SHEET 'E002' FOR ADDITIONAL REQUIREMENTS FOR LOW-VOLTAGE LIGHTING CONTROLS.
- ③ TO COMBAT VOLTAGE DROP AND COMPLY WITH NEC, ENTIRE CIRCUIT TO BE A MIN. OF #10CU.
- ④ PHOTOCELL TO BE SHIELDED/ROTATED SO THAT ADJACENT EXTERIOR LIGHTING DOES NOT INTERFERE WITH ITS PROPER OPERATION.
- ⑤ EXISTING CONNECTOR CANOPY LIGHTING TO REMAIN AND CONNECTED AS IS. INSTALL FIXTURE WITH EMERGENCY BATTERY BACKUP DRIVER TO COMPLY WITH EMERGENCY EGRESS LIGHTING REQUIREMENTS.
- ⑥ EXISTING FIXTURE TO BE REPLACED AND REWIRING AS SHOWN TO COMPLY WITH EMERGENCY EGRESS LIGHTING REQUIREMENTS.

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PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

REVISIONS:

No.	Description	Date

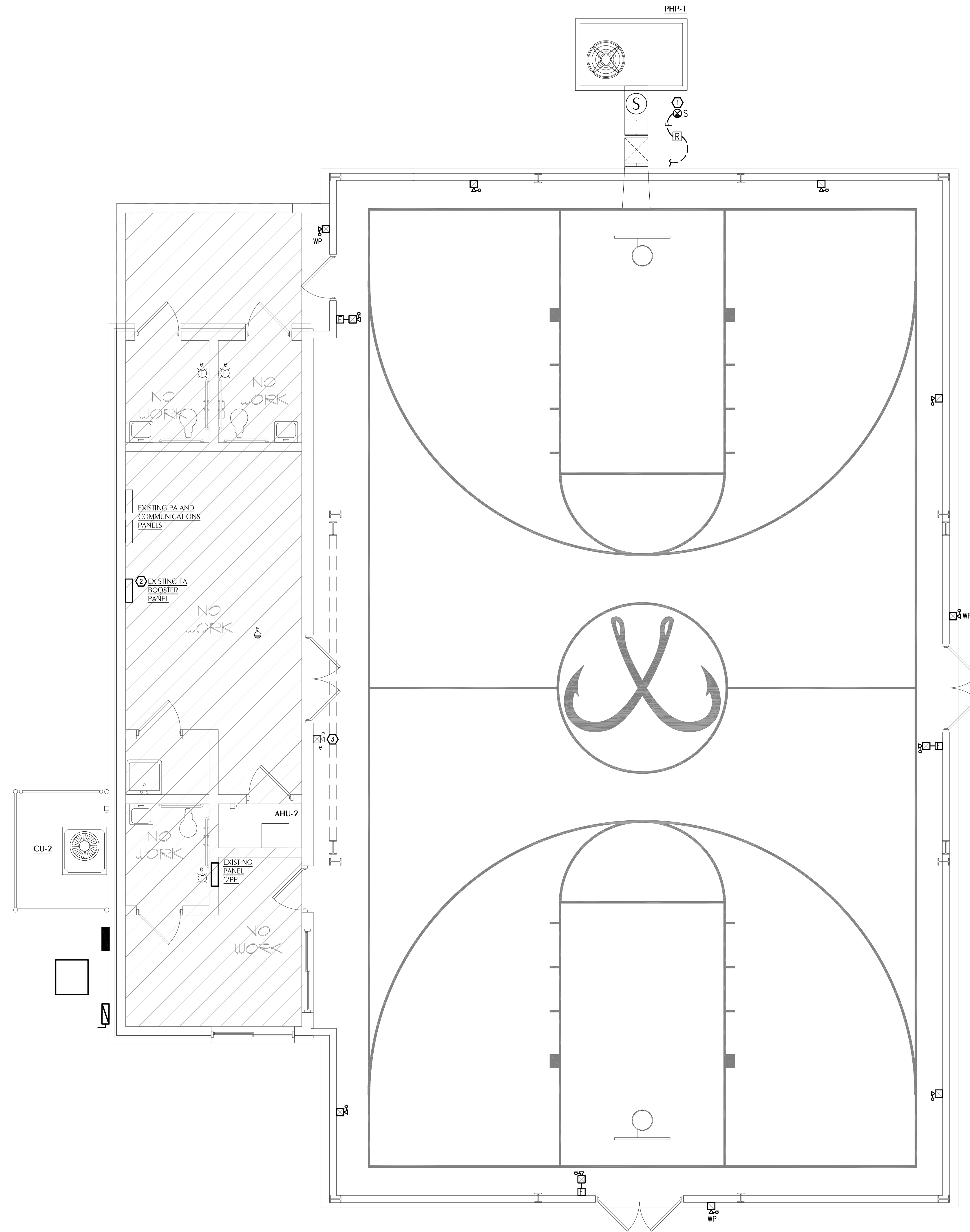
**ELECTRICAL
LIGHTING
PLAN**

PROJECT NUMBER **24042**
DATED **06.21.2024**

**WATFORD**
ELECTRICAL ENGINEERS

Florida CA Number: 27825
Anthony Clark, P.E.
Florida License Number: 57419
905.333.2847
Project Number: 2024-033
Checked By: ALD
Drawn By: EJKU

E301



1 FIRE ALARM PLAN
E401 SCALE: 1/4" = 1'-0"

GENERAL NOTE(S)

1. PROVIDE WIRE GUARDS FOR ALL NEW FIRE ALARM DEVICES AND PANELS IN SPORTS FLOOR AREA AND FOR DEVICES MOUNTED ON BUILDING EXTERIOR.
2. ALL FIRE ALARM CABLING IS TO BE FULLY ROUTED IN CONDUIT.
3. EXISTING PAVILION IS EQUIPPED WITH VOICE EVAC FIRE ALARM SYSTEM.

SHEET NOTES

- ① FIRE ALARM CONTRACTOR TO FURNISH DUCT SMOKE DETECTOR FOR HVAC UNIT AND RELAY FOR CONNECTION TO FIRE ALARM SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR DUCT SMOKE DETECTOR INSTALLATION AND WITH FIRE ALARM CONTRACTOR FOR CONNECTION TO FIRE ALARM SYSTEM. NOTE: DUCT DETECTOR SHALL BE SET TO INITIATE SUPERVISORY SIGNAL IN FIRE ALARM CONTROL PANEL.
- ② EXISTING FIRE ALARM BOOSTER PANEL TO REMAIN. NOTE: EXISTING MAIN FIRE ALARM CONTROL PANEL IS EDWARDS EST3, LOCATED IN MAIN BUILDING.
- ③ REPLACE FIRE ALARM SPEAKER STROBE WITH NEW DEVICE IN EXISTING LOCATION.

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PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

REVISIONS:

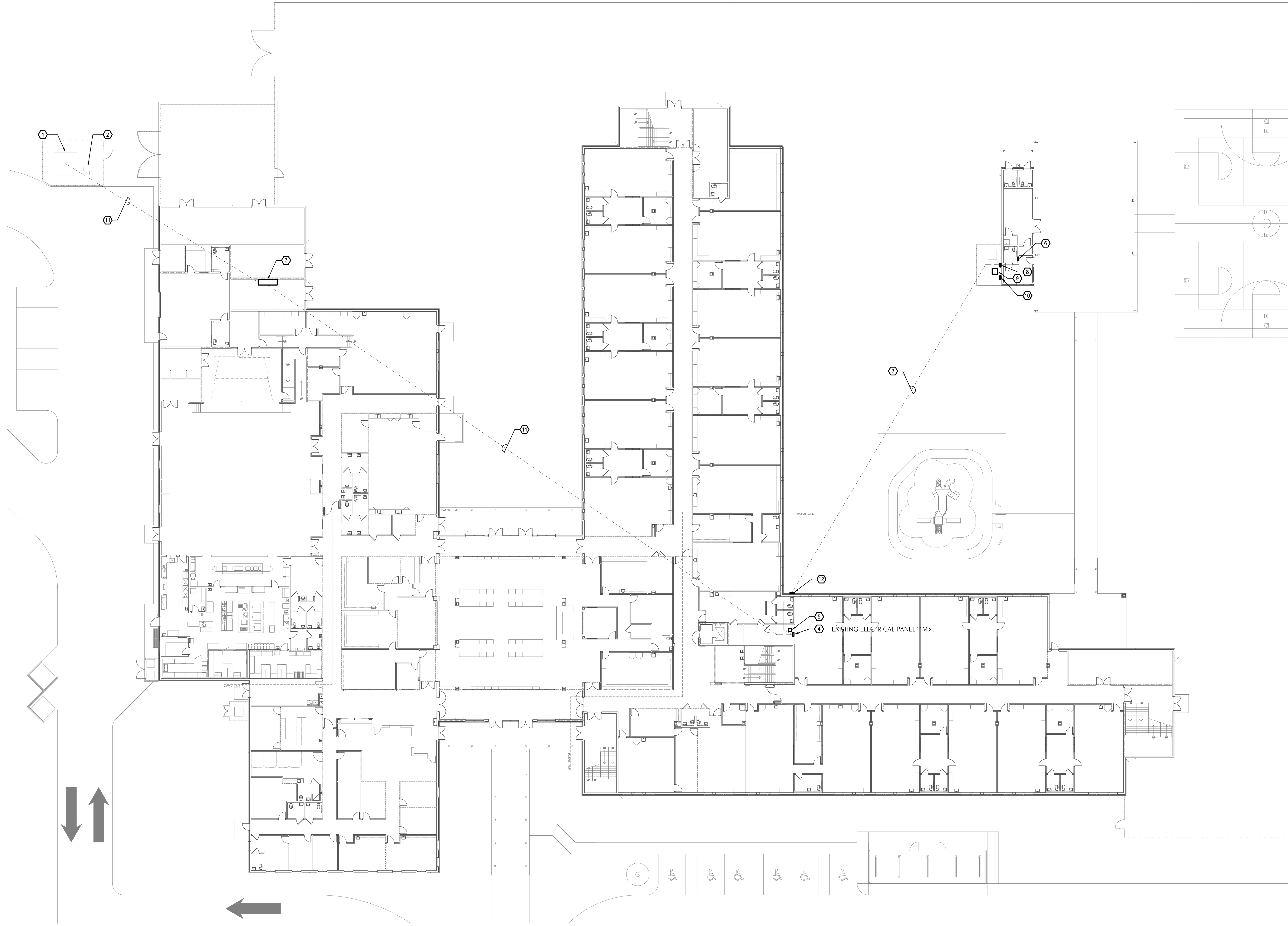
No.	Description	Date

**FIRE ALARM SYSTEM
PLAN**

PROJECT NUMBER **24042**
DATED **06.21.2024**

WATFORD
ENGINEERING
4452 Clinton Street Marietta, Florida 32446
311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27825
Anthony Clark, P.E.
Florida License Number: 57419
950.525.2447
Project Number: 2404-033
Checked By: ALLD
Drawn By: EJKU



1 ELECTRICAL SITE PLAN
E501 SCALE: 1"=20'-0"

SHEET NOTES

- ① EXISTING PAD MOUNTED TRANSFORMER PROVIDED BY POWER COMPANY.
- ② EXISTING POWER METER.
- ③ EXISTING MAIN SWITCHBOARD '4MS'.
- ④ EXISTING ELECTRICAL PANEL '4M3'.
- ⑤ EXISTING TRANSFORMER 'TX'.
- ⑥ EXISTING ELECTRICAL PANEL '2PE' (RECESSED).
- ⑦ EXISTING UNDERGROUND #1 FEEDER TO REMAIN. SEE RISER DIAGRAM SHEET 'E002'.
- ⑧ NEW PANEL '4PE'.
- ⑨ NEW TRANSFORMER 'TXPE'.
- ⑩ NEW 100/3/3R FUSED DISCONNECT.
- ⑪ EXISTING FEEDER.
- ⑫ NEW EXTERIOR NEMA 3R JUNCTION BOX.



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PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

REVISIONS:

No.	Description	Date

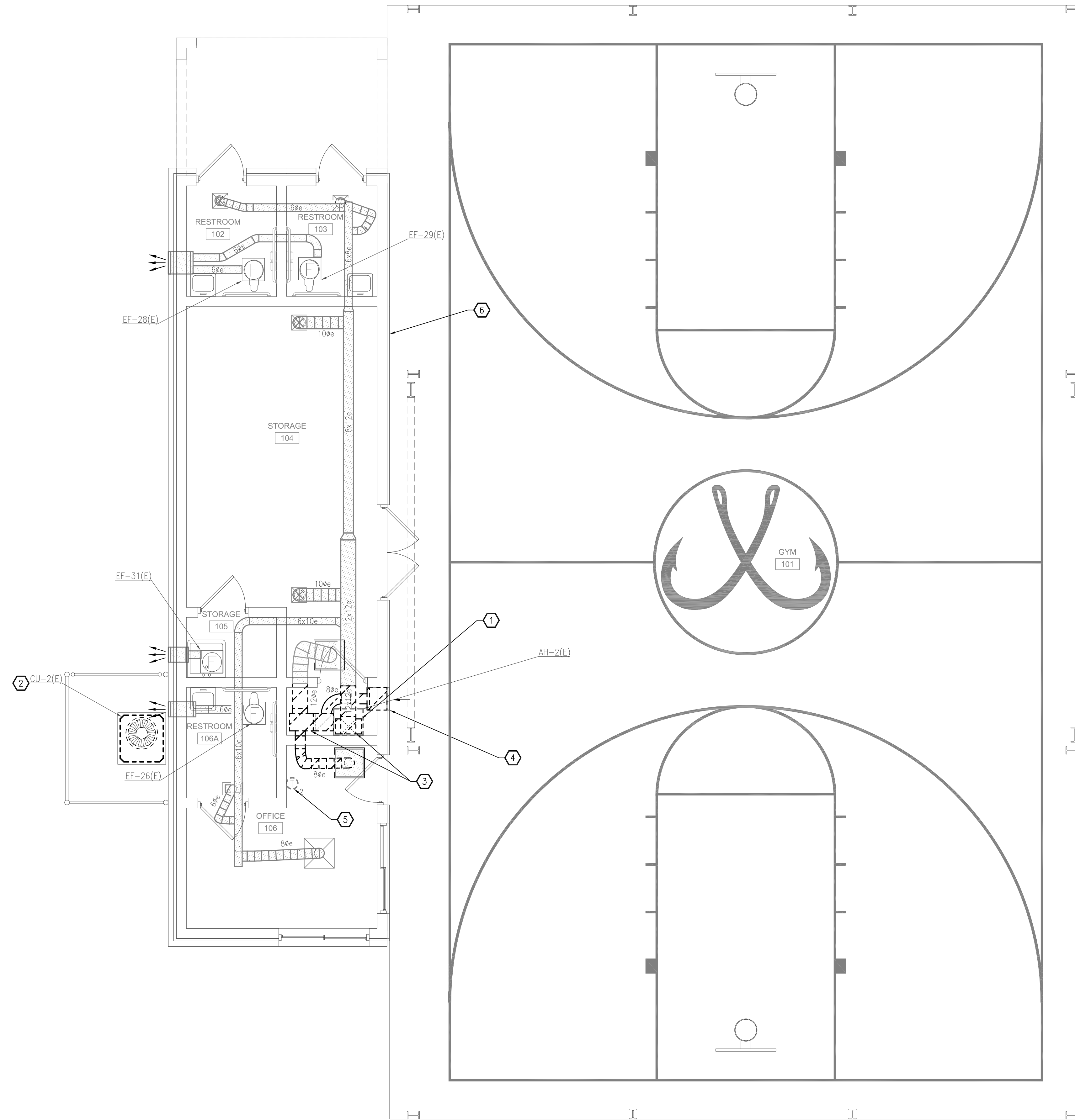
**ELECTRICAL
SITE
PLAN**

PROJECT NUMBER **24042**
DATED **06.21.2024**

Watford
ENGINEERS
4452 Clinton Street Marietta, Florida 32846
311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27825
Anthony Clark, P.E.
Florida License Number: 57419
950.525.2447
Project Number: 2024-033
Checked By: ALLD
Drawn By: EJKU

E501



1 HVAC DEMOLITION FLOOR PLAN
M101 SCALE: 1/4" = 1'-0"

SHEET NOTES

- ① REMOVE EXISTING INDOOR AIR HANDLING UNIT AND EXISTING CONTROLS. PREPARE AREA FOR REPLACEMENT WITH NEW. REFER TO NEW WORK.
- ② REMOVE EXISTING CONDENSING UNIT, PIPING, SUPPORTS, AND ASSOCIATED CONTROLS. PREPARE AREA FOR REPLACEMENT WITH NEW. REFER TO NEW WORK.
- ③ REMOVE EXISTING SUPPLY AND RETURN DUCTWORK AS NECESSARY FOR NEW INSTALLATION. REFER TO NEW WORK.
- ④ REMOVE EXISTING 16X8 BRICK VENT AND OUTSIDE AIR DUCTWORK.
- ⑤ REMOVE EXISTING THERMOSTAT. PREPARE FOR REPLACEMENT WITH NEW IN SAME LOCATION. REFER TO NEW WORK.
- ⑥ CAP EXISTING WALL HYDRANT.

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CONSTRUCTION DOCUMENTS

PLANS FOR
**DEER POINT ELEMENTARY
P.E. PAVILION ENCLOSURE**

REVISIONS:

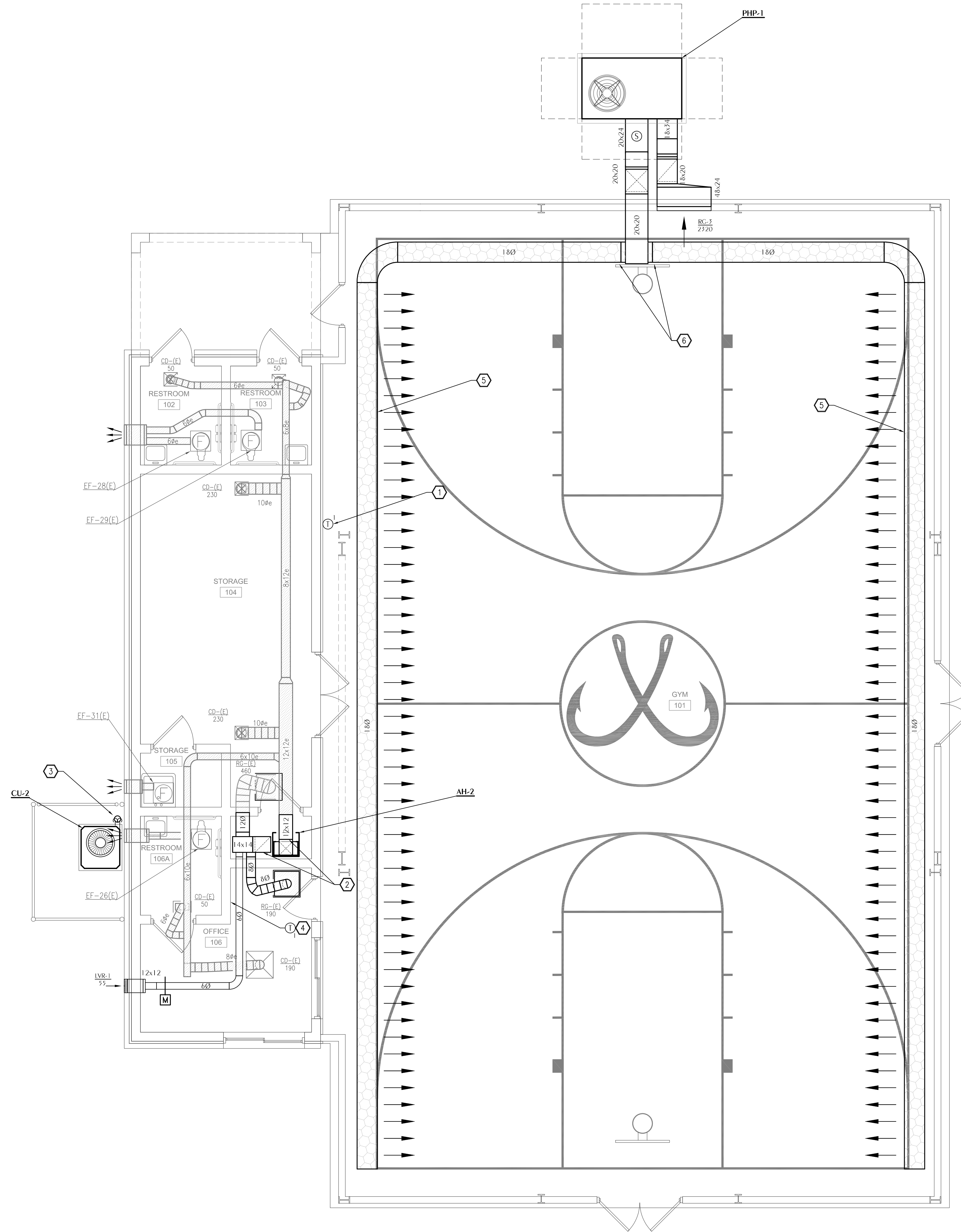
No.	Description	Date

HVAC DEMOLITION FLOOR PLAN

WATFORD ENGINEERS
Florida CA Number: 27825
Florida License No.: 06457
Project Number: 2024-033
Checked By: KAJ
Drawn By: JFG
4452 Clinton Street Marietta, Florida 32846
311 N. College St. Office 1018 Auburn, AL 36830

PROJECT NUMBER **24042**
DATED **06.21.2024**

M101



M201 **1** **HVAC NEW WORK FLOOR PLAN**
SCALE: 1/4" = 1'-0"

SHEET NOTES

- ① PROVIDE WIRE GUARD FOR THERMOSTAT.
- ② RECONNECT SUPPLY AND RETURN DUCTWORK TO NEW AIR HANDLING UNIT.
- ③ ROUTE NEW REFRIGERANT LINES IN EXISTING PVC UNDERGROUND CHASE TO NEW AHU.
- ④ PROVIDE NEW THERMOSTAT IN LOCATION OF PREVIOUS.
- ⑤ AIRFLOW IN '101 - GYM' TO BE BALANCED FOR A TOTAL OF 1765 PER SIDE.
- ⑥ TRANSITION FROM METAL DUCTWORK TO FABRIC DISPERSION DUCTWORK.

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P.E. PAVILION ENCLOSURE**

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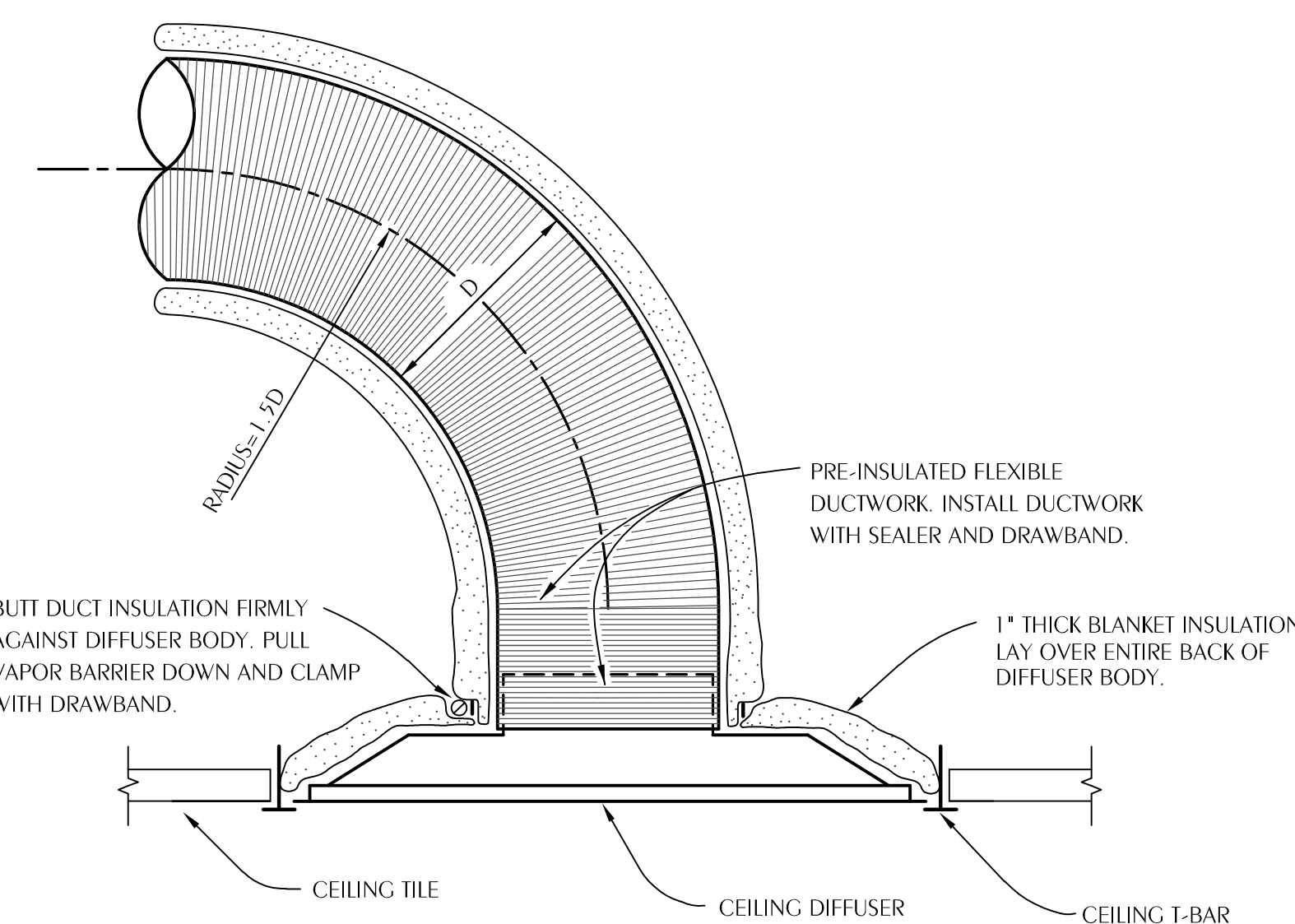
HVAC NEW WORK
FLOOR PLAN

WATFORD
ENGINEERS

Florida CA Number: 27825
Ralph A. Johnson, P.E.
Florida License Number: 66457
900 5th Street
Project Number: 2024-033
Checked By: RJA
Drawn By: JFG

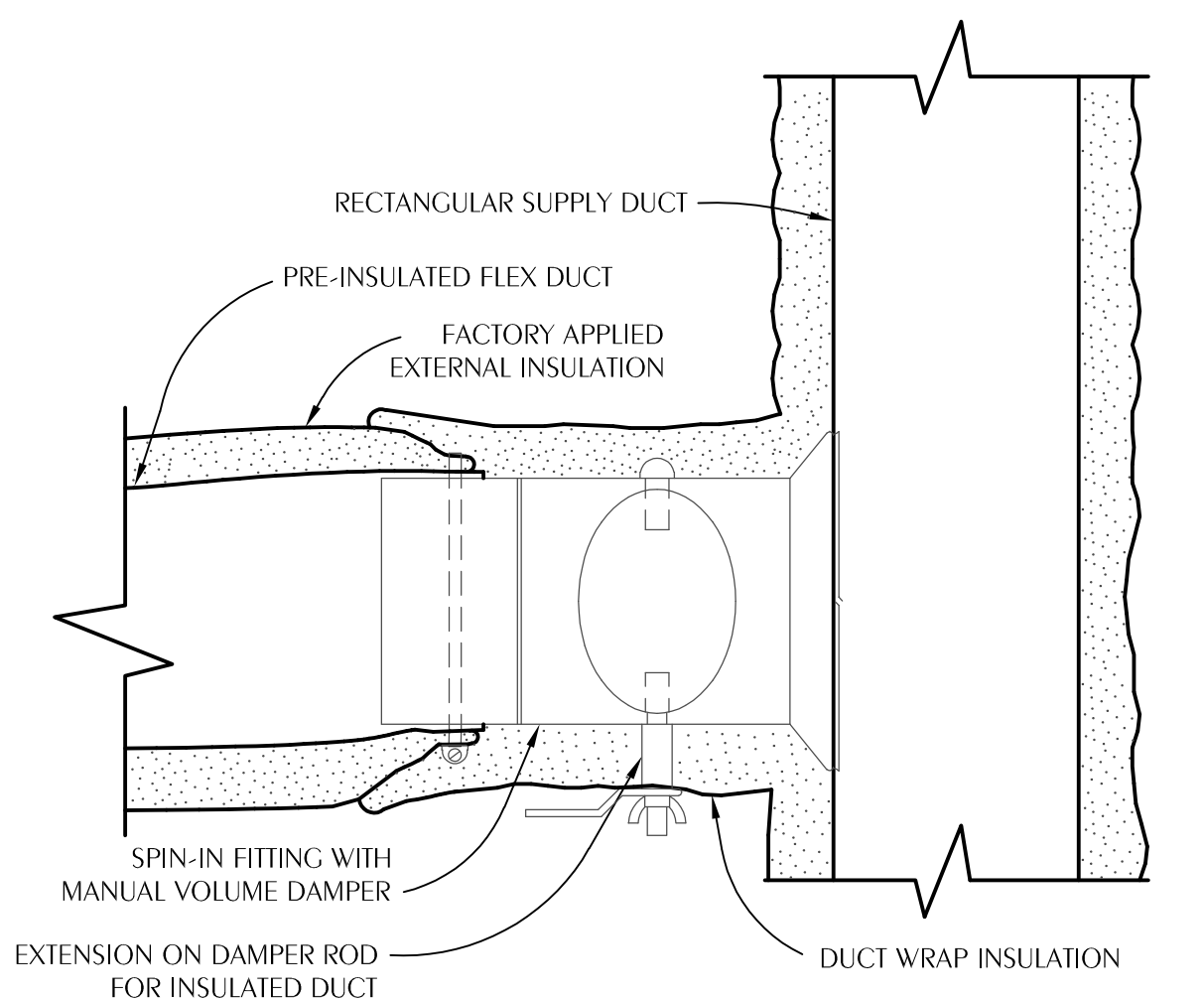
PROJECT NUMBER **24042**
DATED **06.21.2024**

M201



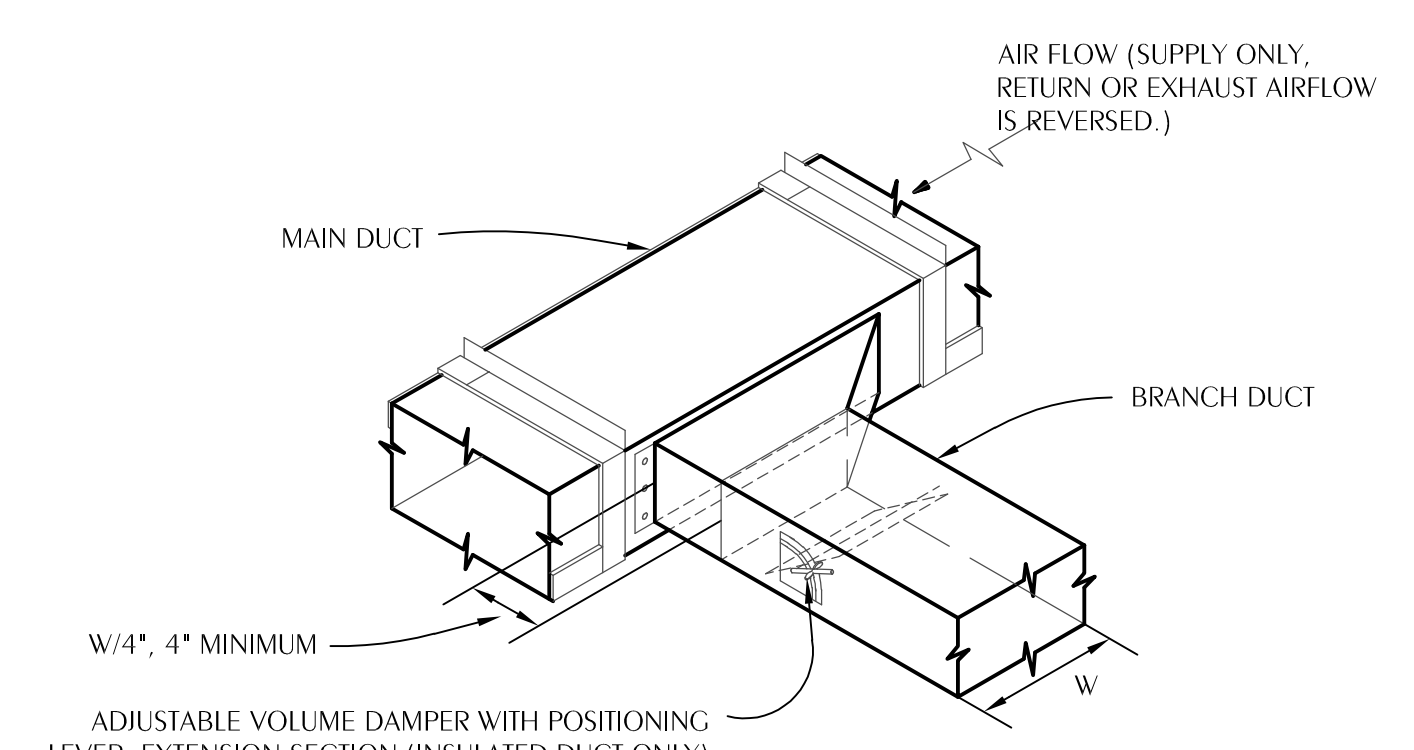
NOTES:
FLEX DUCT SHALL BE NO LONGER THAN 5'-0". FLEXIBLE DUCT SHALL HAVE REINFORCED, METALIZED POLYESTER JACKET WITH NO FIBERGLASS EROSION IN THE AIRSTREAM AND AN ENCAPSULATED WIRE HELIX. FLEX DUCT SHALL HAVE OPERATING PRESSURE OF 4" W.G. AND NEGATIVE OPERATING PRESSURE OF 0.75" W.G. FLEX DUCT SHALL HAVE R-VALUE OF R-6 AND MEET REQUIREMENTS OF UL-181, 2023 FLORIDA ENERGY CODE, NFPA 90A AND NFPA 90B. ATCO 36 OR APPROVED EQUAL.
PROVIDE 24x24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.
PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

1 TYPICAL FLEX DUCT TAKEOFF DETAIL
M301 SCALE: NONE



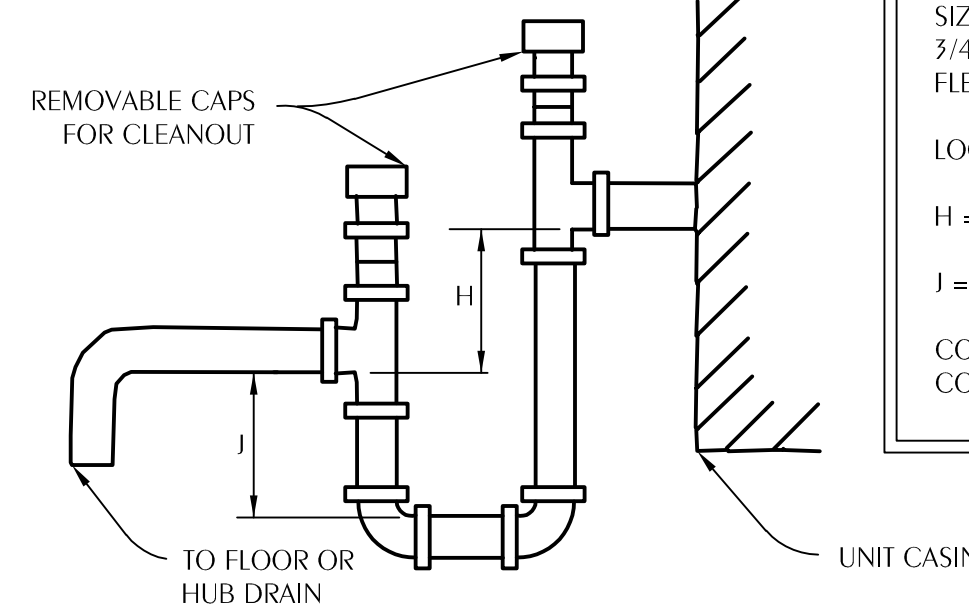
NOTES:
CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.
ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.
PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKEOFFS.
FLEXIBLE INSULATION SHALL BE 2" THICK, ASIM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

2 TYPICAL FLEX DUCT TAKEOFF DETAIL
M301 SCALE: NONE



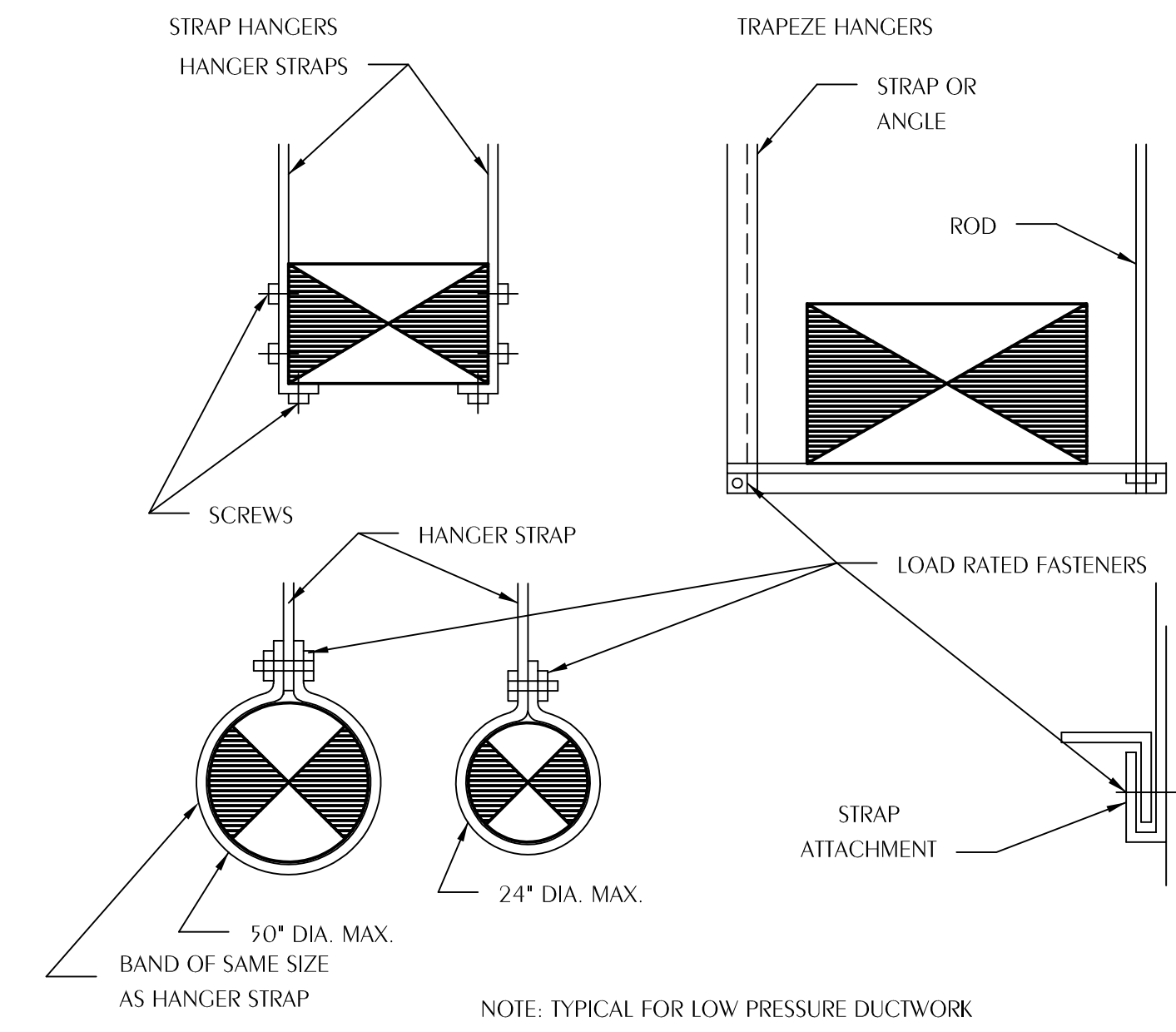
NOTES:
PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF AIR DEVICE FOR INACCESSIBLE TAKEOFFS LOCATED ABOVE HARD CEILINGS.
FLEXIBLE INSULATION SHALL BE 2" THICK, ASIM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

3 TYPICAL BRANCH DUCT TAKEOFF
M301 SCALE: NONE

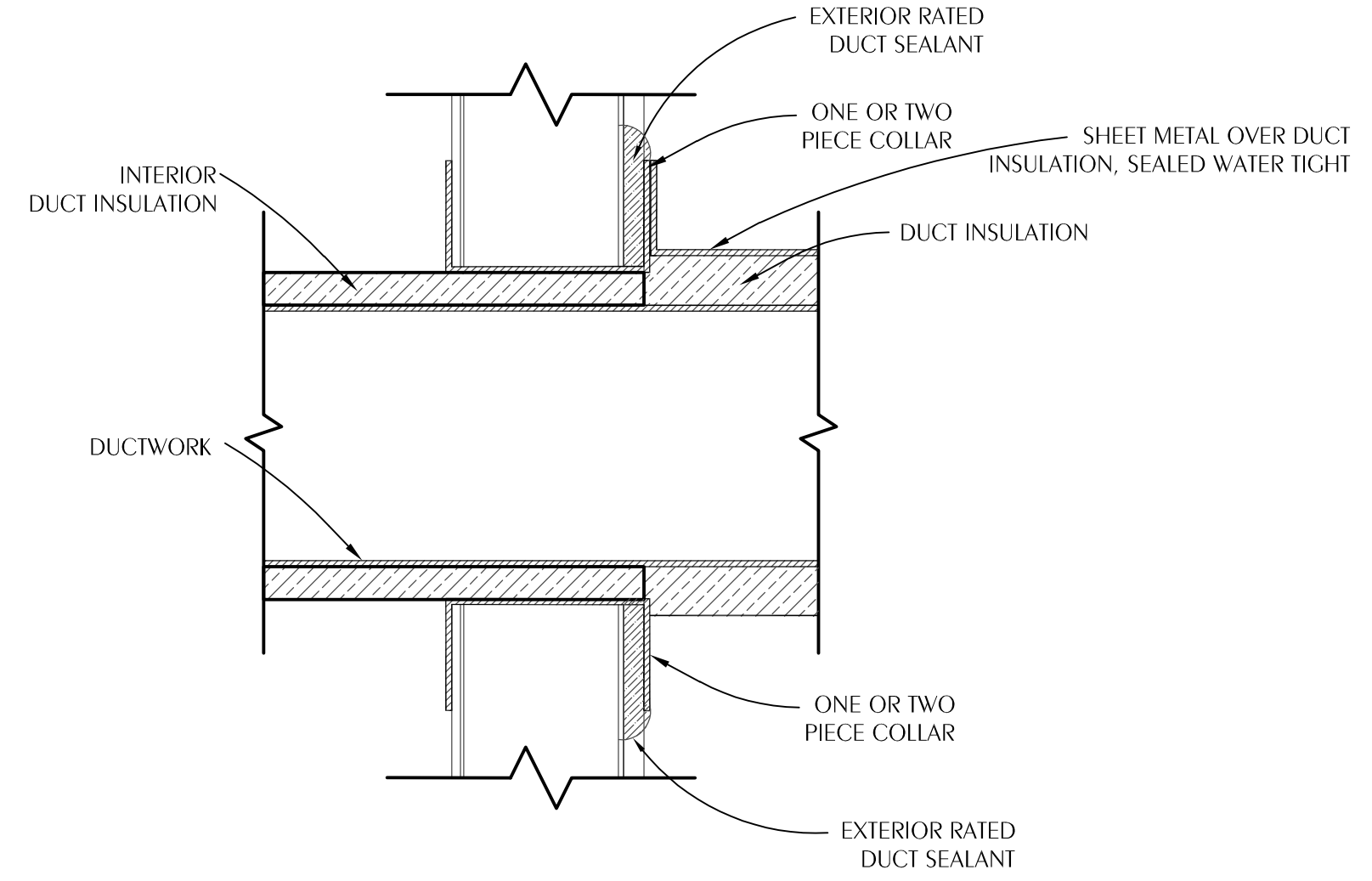


NOTES:
PIPE TYPE 1" HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4". CONDENSATE LINES SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.
LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
H = AIR UNIT TOTAL STATIC PRESSURE + 1"
I = H/2
CONDENSATE PIPE SHALL BE PROVIDED BY THE HVAC CONTRACTOR.

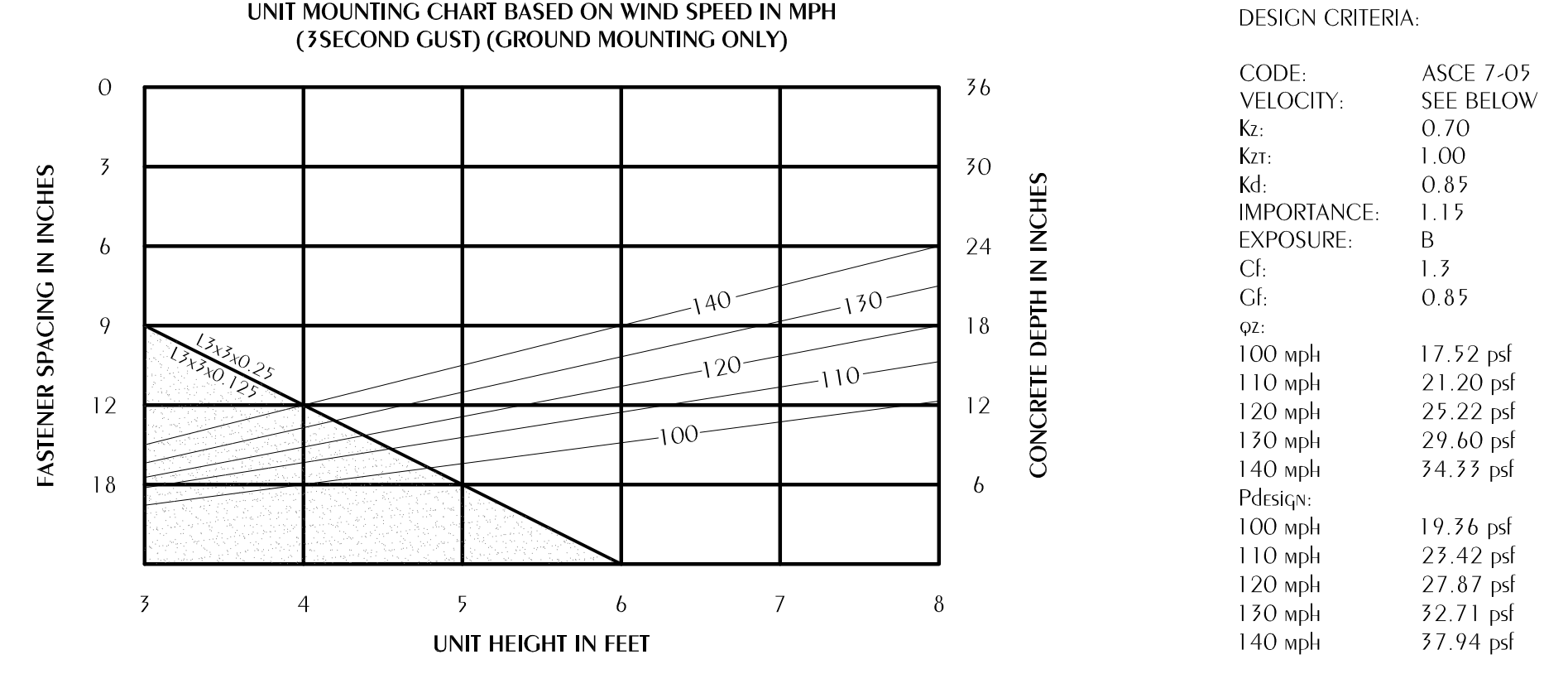
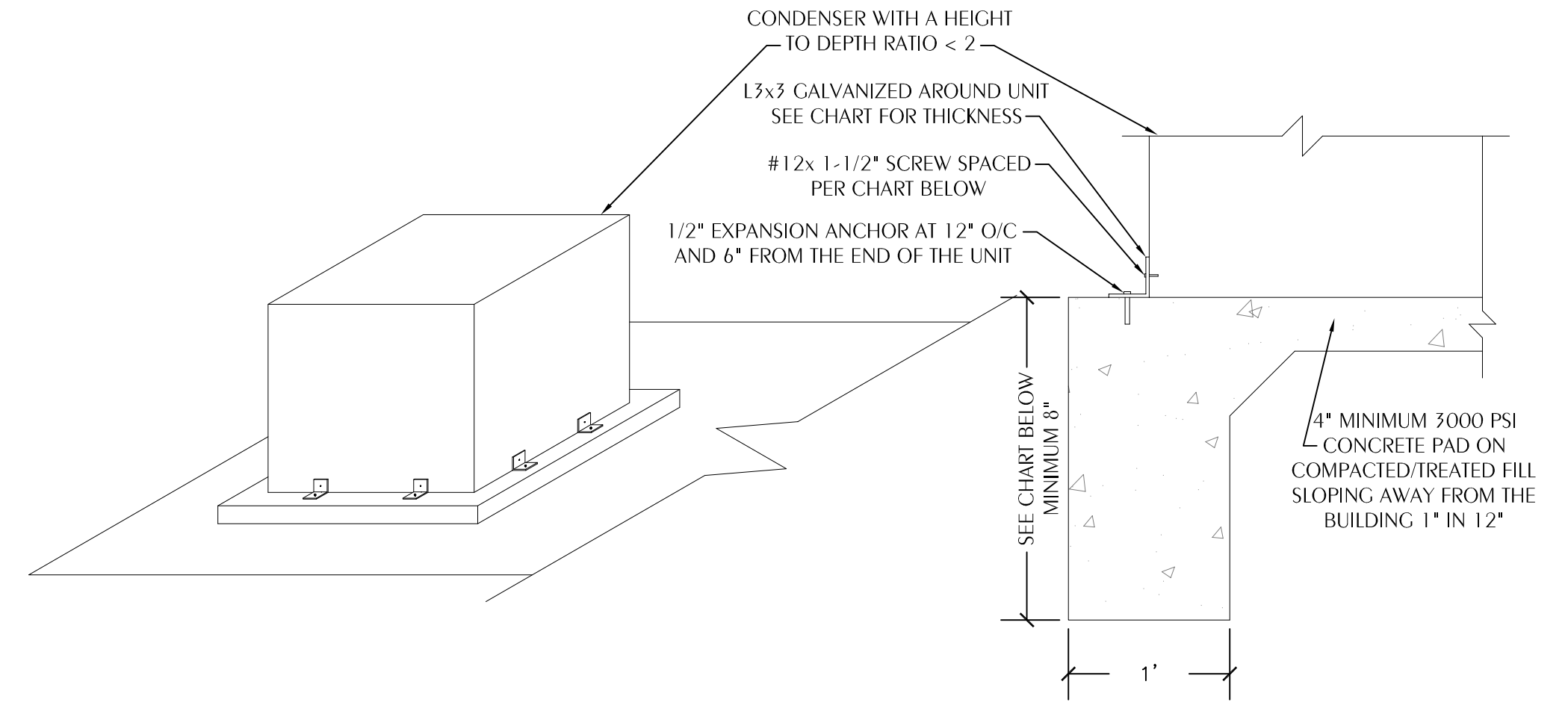
4 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP
M301 SCALE: NONE



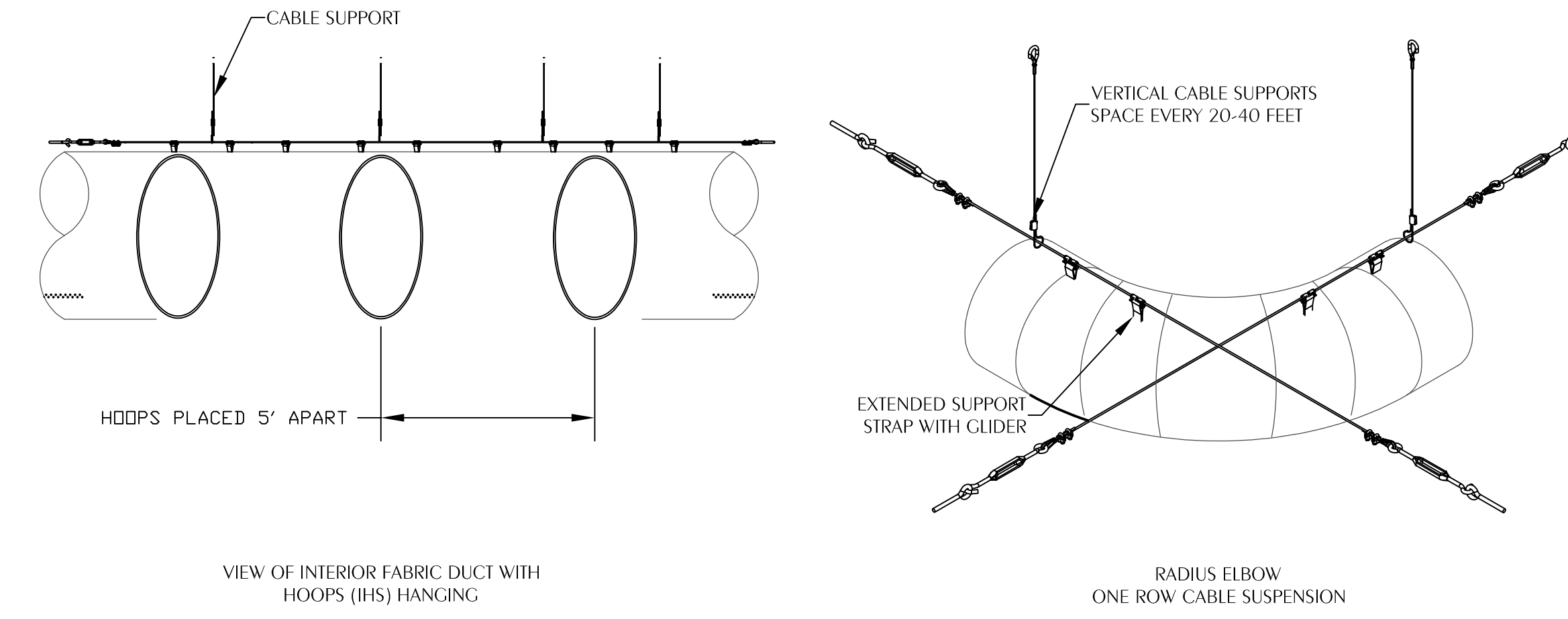
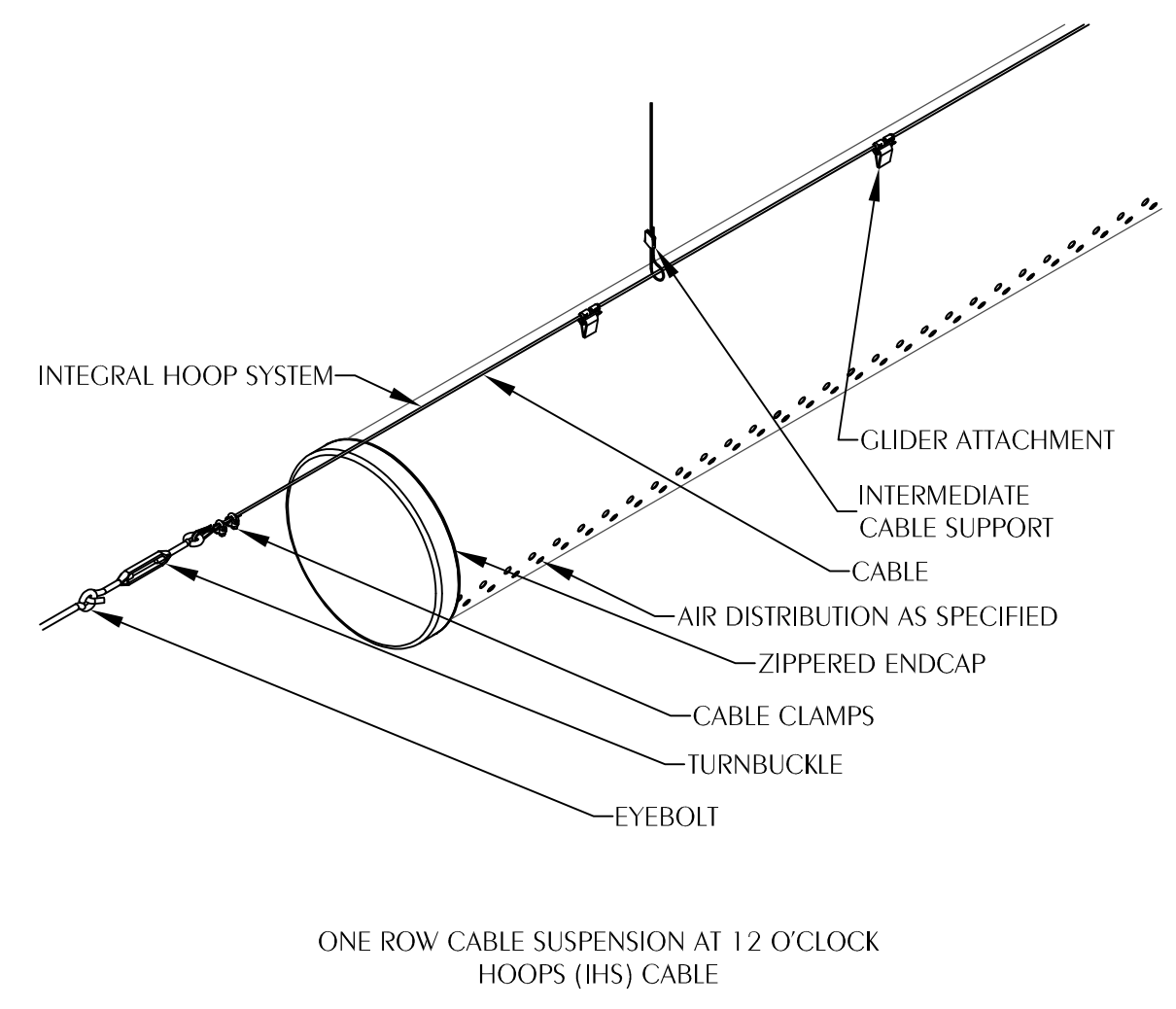
5 DUCT HANGER DETAILS
M301 SCALE: NONE



6 DUCTWORK THROUGH WALL DETAIL
M301 SCALE: NONE



7 OUTDOOR MECHANICAL UNIT MOUNTING DETAIL
M301 SCALE: NONE



8 SUSPENSION DETAIL
M301 SCALE: NONE

9 LINEAR SLOT DETAIL
M301 SCALE: NONE

REVISIONS:

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SEQUENCE OF OPERATION PACKAGED HEAT PUMP UNIT

GENERAL: STARTING AND STOPPING OF EQUIPMENT SHALL BE BY A ROOM MOUNTED BACnet THERMOSTAT WITH HUMIDITY SENSOR. THE UNIT SHALL BE STARTED AUTOMATICALLY BY THE BACnet THERMOSTAT AND ALL CONTROLS ACTIVATED SUBJECT TO THE FIRE ALARM RELAY, SAFETIES AND OVERLOADS. THE CONTROLLER SHALL PROVIDE A FOUR DEGREE DEADBAND (ADJUSTABLE FROM THE GRAPHIC UP TO FIVE DEGREES) BETWEEN THE HEATING AND COOLING SETPOINTS.

OCCUPIED MODE: THE MOTORIZED OA DAMPER SHALL OPEN TO THE BALANCED POSITION AND THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE CONDENSING UNIT SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE SUPPLEMENTAL ELECTRIC HEAT SHALL BE DISABLED UNLESS THE OUTDOOR TEMPERATURE IS BELOW 35°F OR THE UNIT IS OPERATING IN DEFROST CYCLE. THE SETPOINT FOR COOLING SHALL BE 77°F ADJUSTABLE FROM THE GRAPHIC. THE SETPOINT FOR HEATING SHALL BE 70°F ADJUSTABLE FROM THE GRAPHIC. THE INDOOR FAN SHALL START AND RUN AT A REDUCED SPEED AS THE FIRST STAGE OF TEMPERATURE CONTROL. IF THE CALL FOR TEMPERATURE CONTROL IS NOT MET AFTER 7 1/2 MINUTES, THE INDOOR FAN SHALL INCREASE TO FULL FAN SPEED AND RUN UNTIL THE CALL FOR TEMPERATURE CONTROL IS SATISFIED. DUAL STAGE OR CIRCUITED UNITS SHALL RUN START THE FIRST STAGE OF COOLING OR HEATING WITH THE FIRST STAGE COMPRESSORS.

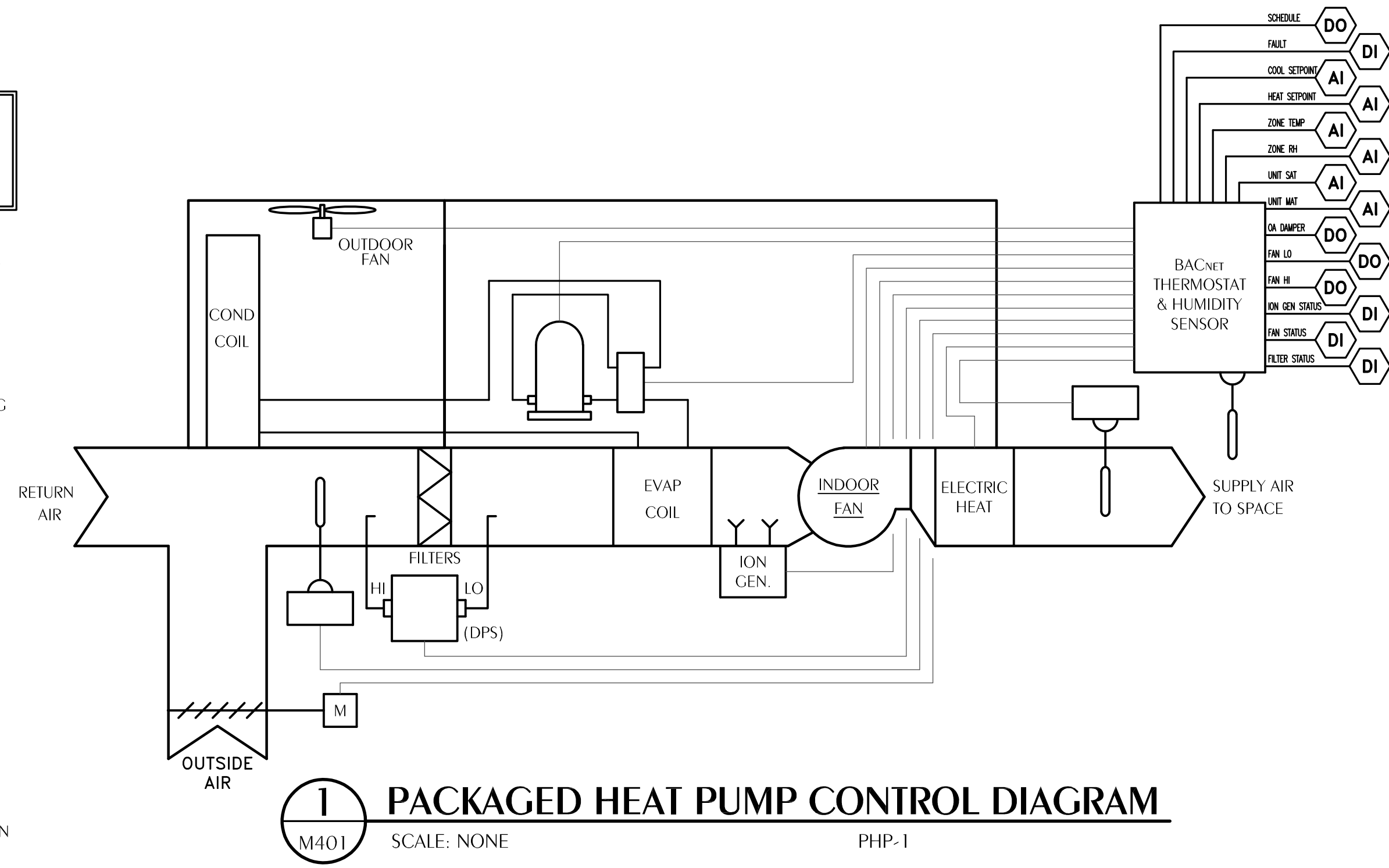
UNOCCUPIED MODE: THE MOTORIZED OA DAMPER SHALL CLOSE. THE INDOOR FAN AND CONDENSING UNIT SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 80°F ADJUSTABLE FROM THE GRAPHIC. THE SETPOINT FOR HEATING SHALL BE 65°F ADJUSTABLE FROM THE GRAPHIC.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR ONE HOUR AND THE OUTSIDE AIR DAMPER FOR THE UNIT IN OVERRIDE SHALL OPEN TO THE BALANCED POSITION.

HUMIDITY CONTROL: UPON A CALL FOR DEHUMIDIFICATION, THE UNIT SHALL RUN AT FULL COMPRESSOR LOAD AND MINIMUM AIRFLOW UNTIL THE CALL FOR DEHUMIDIFICATION IS SATISFIED (SPACE RH < SETPOINT - 5%) OR THE SPACE FALLS TWO DEGREES BELOW THE HEATING SETPOINT. THE SETPOINT FOR DEHUMIDIFICATION SHALL BE 60%, ADJUSTABLE FROM THE GRAPHIC.

BIPOLAR IONIZATION: THE BACnet THERMOSTAT SHALL MONITOR THE DIGITAL ALARM OUTPUT ON THE IONIZATION DEVICE AND THE DDC SHALL MONITOR THIS POINT AND POST AN ALARM IF THERE IS A FAILURE.

DOOR INTERLOCK: UNIT SHALL INTERLOCK WITH ALL ROLL UP DOORS. UNIT SHALL SHUT DOWN IF ANY ROLL UP DOOR IS OPEN FOR TO CONSECUTIVE MINUTES.



PACKAGED HEAT PUMP POINTS LIST

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS/FUNCTIONS				ALARM	GRAPHIC
	AI	AO	DI	DO	AV	DV	SCHED	TREND		
SCHEDULE				X						X
FAULT			X						X	X
ZONE TEMP SETPOINT	X									X
ZONE TEMP (T)	X								X	X
ZONE HUMIDITY (RH)	X								X	X
SUPPLY AIR TEMP (SAT)	X									X
MIXED AIR TEMPERATURE (MAT)	X									X
OA DAMPER				X						X
FAN LO SPEED				X						X
FAN HI SPEED				X						X
ION GENERATOR STATUS			X						X	X
FAN STATUS			X						X	X
FILTER STATUS			X						X	X



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HVAC CONTROLS

PROJECT NUMBER **24042**
DATED **06.21.2024**



Florida CA Number: 27625
Florida License No: 16985
Florida License Number: 09457
002.020.3417
Project Number: 2024-033
Checked By: KAG
Drawn By: JFG

M401