

FORT WALTON BEACH MUSEUM ADDITION

139 MIRACLE STRIP PKWY SE, WALTON BEACH, FLORIDA 32548

APPLICABLE CODES

STATE CODES	NATIONAL CODES
2020 FLORIDA BUILDING CODE: RESIDENTIAL 2020 FLORIDA PLUMBING CODE 2020 FLORIDA MECHANICAL CODE 2020 FBC: ENERGY CONSERVATION, 6th EDITION	2020 NFPA 70 NATIONAL ELECTRICAL CODE 2020 FIRE PREVENTION CODE (7th EDITION) 2020 NFPA 1 & NFPA 101

BUILDING AREA

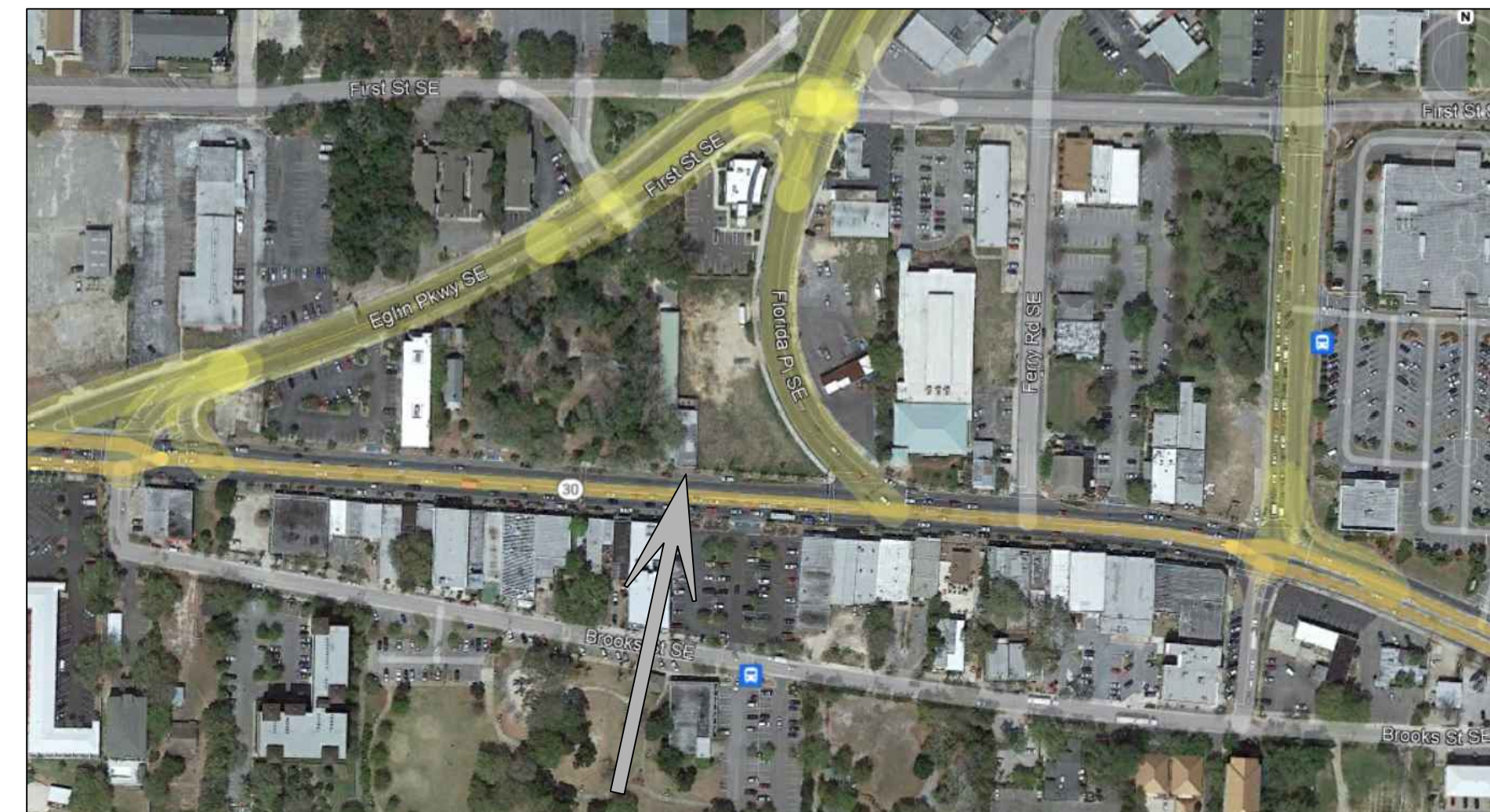
1st FLOOR AREA: 2,893.75 SQ. FT.
 2nd FLOOR AREA: 1,906.00 SQ. FT.
 TOTAL BUILDING AREA 4,799.75 SQ. FT.

CODE ANALYSIS:

CH. 3 SECTION 903.4 SECTION 311.1.1	USE AND OCCUPANCY CLASSIFICATION ASSEMBLY GROUP A-3 [MUSEUM] STORAGE S-1: ACCESSORY STORAGE SPACES *A ROOM OR SPACE USED FOR STORAGE PURPOSES THAT IS ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS PART OF THAT OCCUPANCY*
CH. 5 TABLE 504.3a TABLE 504.4 TABLE 506.2	GENERAL BUILDING HEIGHTS AND AREAS TYPE II-B - 55' HEIGHT LIMIT [28'-0" ACTUAL] 2 STORY [2 ACTUAL] 9,500 SQ. FT. LIMIT [4,800 SQ. FT. ACTUAL]
CH. 6 TABLE 601	TYPES OF CONSTRUCTION CONSTRUCTION TYPE: II-B STRUCTURAL FRAME: 0 HOUR BEARING WALLS - EXTERIOR: 0 HOUR BEARING WALLS - INTERIOR: 0 HOUR NON-BEARING WALLS: 0 HOUR FLOOR CONSTRUCTION: 0 HOUR ROOF CONSTRUCTION: 0 HOUR (NOT REQUIRED FOR ROOF CONSTRUCTION OVER 20' A.F.F.)
TABLE 602	PERIMETER WALLS GREATER THAN 30' FROM PROPERTY LINE REQUIRES NO FIRE RATING
CH. 8 TABLE 803.11	INTERIOR FINISHES: NON-SPRINKLERED BUILDING EXIT ENCLOSURES & EXIT PASSAGEWAYS: CLASS A FINISH CORRIDORS: CLASS A FINISH ROOMS & ENCLOSED SPACES: CLASS C FINISH
CH.9 903.2.1.3 TABLE 906.3(1) TABLE 906.3(2) 907	FIRE PROTECTION SYSTEMS: AN AUTOMATIC SPRINKLER SYSTEM IS NOT REQUIRED. MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER: 75 FEET BASIC MINIMUM EXTINGUISHER RATING: 5-B FIRE ALARM AND DETECTION SYSTEM IS REQUIRED
CH. 10 1004.5	MEANS OF EGRESS: MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT EXHIBIT GALLERY AND MUSEUM 1 per 30 sq.ft. 1419.50 SQ.FT. / 30 sq.ft.: 47 TOTAL BUSINESS AREAS 1 per 150 sq.ft. 834.00 SQ.FT. / 150 sq.ft.: 6 TOTAL STORAGE, STOCK, SHIPPING AREAS 1 per 300 sq.ft. 821.00 SQ.FT. / 300 sq.ft.: 3 TOTAL GRAND TOTAL 56 TOTAL
1005.1	EGRESS WIDTH: STAIRWAYS: 0.3/PERSON OTHER COMPONENTS: 0.2/PERSON
TABLE 1006.2.1 TABLE 1006.2.1 1008 1010 1010.1.10	COMMON PATH OF EGRESS TRAVEL: 75 FEET IN GROUP B 1 EXITS REQUIRED FOR LESS THAN 49 OCCUPANTS PER FLOOR EMERGENCY LIGHTING IS REQUIRED REQUIRED EGRESS DOORS WILL COMPLY WITH ADA PANIC HARDWARE REQUIRED ON EXIT DOORS SERVING MORE THAN 50 OCCUPANTS
TABLE 1017.2 TABLE 1020.1	EXIT SIGNS REQUIRED ALONG THE EGRESS PATH EXIT ACCESS TRAVEL DISTANCE BY OCCUPANCY: ASSEMBLY GROUP A-3 [MUSEUM] 200 FT. CORRIDOR FIRE RESISTANT RATING BY OCCUPANCY: FOR NON-SPRINKLERED BUILDING: 1 HOUR RATING
CH. 11	ACCESSIBILITY WILL COMPLY WITH 2020 FLORIDA BUILDING CODE, ACCESSIBILITY, 7th ED.
CH. 12	INTERIOR ENVIRONMENT INTERIOR ENVIRONMENT- REFER TO MEP
CH. 13	ENERGY EFFICIENCY WILL COMPLY WITH 2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 7th ED

PLUMBING FIXTURE COUNT

CH.4 TABLE 403.1	FIXTURES, FAUCETS AND FIXTURE FITTINGS MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES WATER CLOSET M (1/125) F (1/65)
EXHIBIT GALLERY AND MUSEUM	56/2 = 28 .25 .43
TOTAL WATER CLOSETS REQUIRED	.25 = 1 .43 = 1
WATER CLOSETS PROVIDED	4
LAVATORIES M (1/200) F (1/200)	
EXHIBIT GALLERY AND MUSEUM	56/2 = 28 .14 .14
TOTAL LAVATORIES REQUIRED	.14 = 1 .14 = 1
LAVATORIES PROVIDED	3
DRINKING FOUNTAIN (1/500)	
EXHIBIT GALLERY AND MUSEUM	56 .11
TOTAL DRINKING FOUNTAINS	.11 = 1
DRINKING FOUNTAINS PROVIDED	1 STANDARD 1 ADA COMPLIANT



SITE INFORMATION

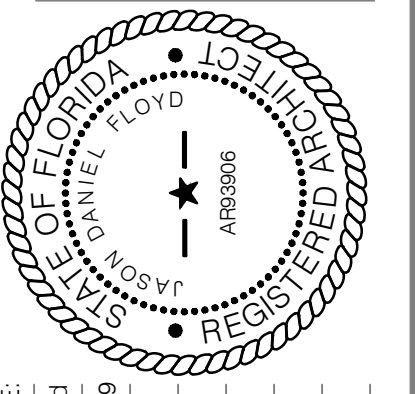
WIND LOAD:	145 MPH FASTEST MILE WIND LOAD
EXPOSURE:	EXPOSURE 'B'
RISK CATEGORY:	II
JURISDICTION:	FORT WALTON BEACH, OKALOOSA COUNTY

VICINITY MAP

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A1.20	2nd FLOOR PLANS: WITH LIFE SAFETY NOTES, WINDOW SCHEDULES
A1.30	ROOF PLAN, ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS.
A2.00	BUILDING ELEVATIONS.
A3.01	BUILDING SECTIONS
A4.01	BUILDING DETAILS
A4.02	BUILDING DETAILS
A4.03	BUILDING DETAILS
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M1.10	MECHANICAL FLOOR PLANS.
M2.10	MECHANICAL NOTES, LEGENDS AND SCHEDULES.
M2.11	MECHANICAL DETAILS.
PLUMBING:	
P1.10	PLUMBING FLOOR PLANS.
P2.10	PLUMBING NOTES, LEGENDS AND SCHEDULES.
P2.11	PLUMBING DETAILS.
ELECTRICAL:	
E0.01	ELECTRICAL LEGENDS, NOTES & DETAILS.
E0.02	POWER RISER DIAGRAM & PANEL SCHEDULES
E1.01	POWER & SIGNAL PLANS.
E1.02	LIGHTING PLANS.

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DATE:	DATE:
DRAWN BY: mtd	PROJECT NO: 2119
PROJECT NO: 2119	REVISIONS:
REVISIONS:	

18 Jan 2023 For Bid

TITLE SHEET &
CODE ANALYSIS

G1.01

FORT WALTON BEACH
MUSEUM ADDITION

139 Miracle Strip Pkwy SE
Fort Walton Beach, FL

THE 2020 FLORIDA BUILDING CODE:
ACCESSIBILITY, 7th EDITION CHAPTER 4:
SECTION 404 DOORS, DOORWAYS AND GATES

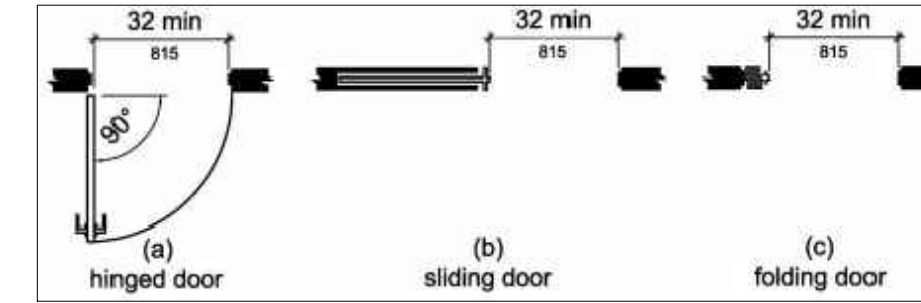
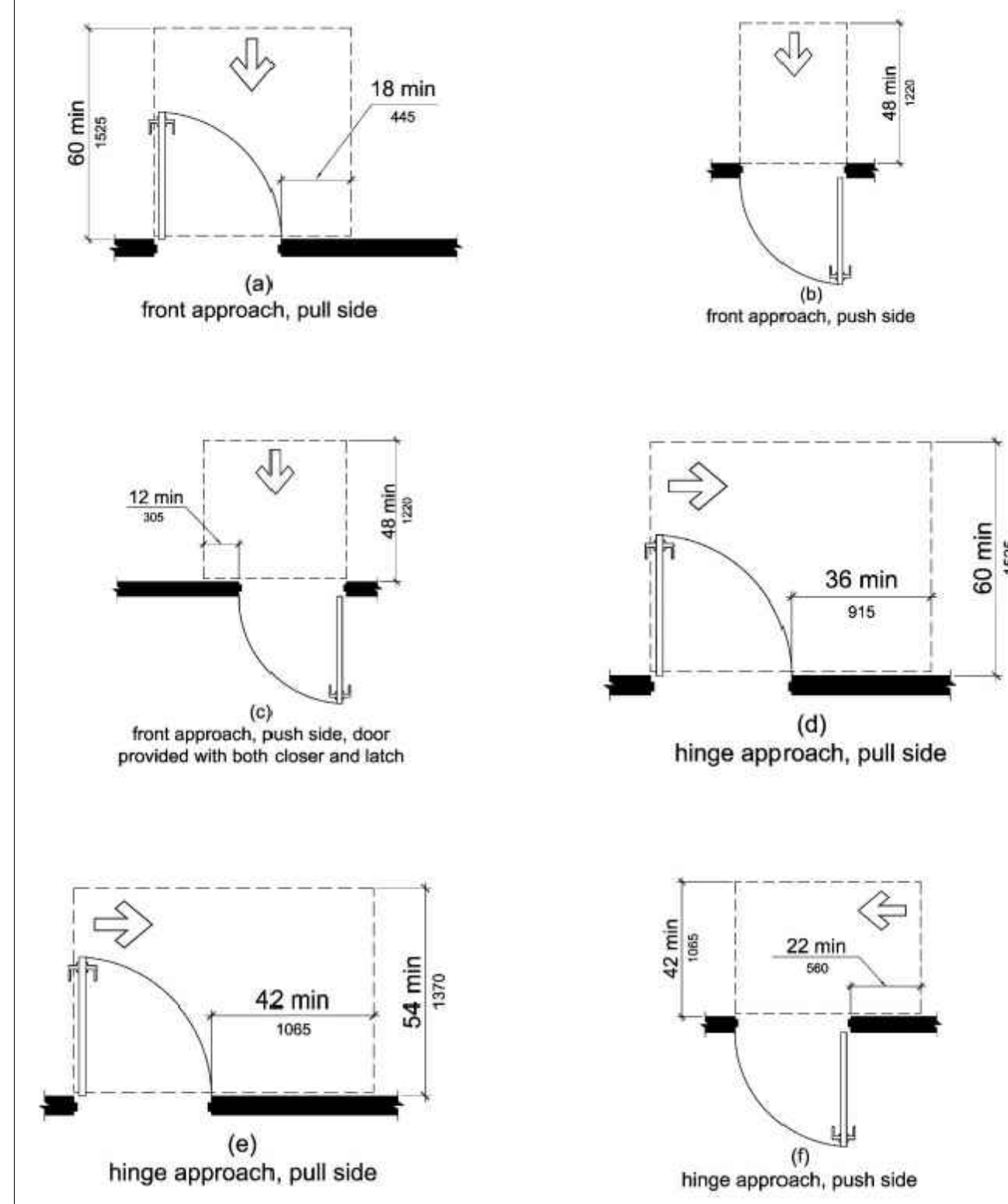


FIGURE 404.2.3 CLEAR WITH OF DOORWAYS

TABLE 404.2.4.1 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES

Type of Use		Minimum Maneuvering Clearance	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway(beyond latch side unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm)1
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm)2	22 inches (560 mm)3
From latch side	Pull	48 inches (1220 mm)4	24 inches (610 mm)
From latch side	Push	42 inches (1065 mm)4	24 inches (610 mm)

- Add 12 inches (305 mm) if closer and latch are provided.
- Add 6 inches (150 mm) if closer and latch are provided.
- Beyond hinge side.
- Add 6 inches (150 mm) if closer is provided.



SYMBOLS LEGEND

- SECTION / DETAIL KEY
- 1 SECTION / DETAIL NUMBER
- A1.04 DRAWING NUMBER
- ROOM NAME
- NUMBER ROOM KEY
- SQ. FT. / INFO
- INFO
- INFO
- INFO
- D DOOR KEY
- 111 DOOR KEY
- W WINDOW KEY
- 1 WINDOW KEY
- KEYNOTE
- 01.01 DIVISION NUMBER
- 01.01 KEY NUMBER
- WT WALL TYPE KEY
- ELEVATION KEY
- 01.02 DIVISION NUMBER
- 01.02 KEY NUMBER

ABBREVIATIONS

A		N	
A/C	AIR CONDITIONER.	N/A	NOT APPLICABLE.
ADA	AMERICANS WITH DISABILITIES ACT.	NFPA	NATIONAL FIRE PROTECTION AGENCY.
AFF	ABOVE FINISH FLOOR.	NIC	NOT IN CONTRACT
AL	ALUMINUM	NL	NARROW LIGHT [DOOR / GLAZING].
ALSF	ALUMINUM STOREFRONT WINDOW / DOOR SYSTEM.	NTS	NOT TO SCALE
B		O	
BLDG	BUILDING.	OC	ON CENTER
BV	BRICK VENEER	OCC	OCCUPANCY [TYPE OR LOAD]
C		OD	OVERHEAD COILING DOOR
C-BRM	CONCRETE BROOM FINISH	ODD	OVERHEAD [GARAGE / PANEL] DOOR.
C-S	CONCRETE, SEALED.	OSPEC	(SEE) OWNER SPECIFICATIONS
C-S/P	CONCRETE, SEALED / POLISHED	P	
CARP	CARPET	P1	PAINT, TYPE 1.
C / T	CARPET TILE, 24" x 24"	PH	PRE-HUNG [DOOR]
CDX	PLYWOOD, CLASS C TO D EXPOSURE	PF	PAIR
CL	CENTERLINE.	PT	PRESSURE TREATED.
CLG	CEILING.	Q	
CLO	CLOSET.	R	
CMU	CONCRETE MASONRY UNIT.	R-38	INSULATION VALUE
CONC	CONCRETE.	R 1'-11"	RADIUS
CONT	CONTINUOUS	R	RUBBER [BASE].
CT	CERAMIC TILE	RM	ROOM.
CW	CURTAIN WALL [GLAZING].	RO	ROUGH OPENING
D		S	
DBL	DOUBLE	SAP	SUSPENDED ACOUSTIC PANEL CEILING SYSTEM WITH EXPOSED GRID.
DEMO	DEMOLITION	SHT	SHEET
DIA	DIAMETER.	SIM	SIMILAR
DN	DOWN	SPEC(S)	SPECIFICATION(S)
DWG	DRAWING	SO	SQUARE
E		SO FT	SQUARE FOOTAGE.
EJ	EXPANSION JOINT.	STL	STEEL
ELEV	ELEVATION or ELEVATOR.	STN	STAINED, WOOD.
EPX	EPOXY FLOOR COATING.	STRUCT	STRUCTURAL
ES	EXPOSED STRUCTURE.	T	
EX	EXISTING	TBD	TO BE DETERMINED.
EXP	EXPOSED	T.O.F.	TOP OF FOOTING
F		TYP	TYPICAL
F	FLUSH [DOOR].	T & G	TONGUE GROOVE
FE	FINISH ELEVATION.	T & S	TAPED, SANDED AND PRIMED
FFE	FINISH FLOOR ELEVATION	U	
FEC	FIRE EXTINGUISHER AND CABINET.	UNO	UNLESS NOTED OTHERWISE.
FG	FULL GLASS	V	
FIN	FINISH	VCT	VINYL COMPOSITION TILE
FLR	FLOOR	VERT	VERTICAL
FRP	FIBERGLASS REINFORCED PANELS.	VLP	VINYL LAMINATE PLANK
FT	FOOT // FEET	VTR	VENT THROUGH ROOF
G		W	
GALV	GALVANIZED.	W	WIDE // WIDTH.
GHM	GALV. HOLLOW METAL [DOOR].	W /	WITH.
GHMI	GALV. HOLLOW METAL [DOOR], INSULATED.	W / O	WITHOUT
GLS	GLASS.	WD	WOOD
GS	GALV. STEEL.	WH	WATER HEATER
GYM	GYMNASIUM // GYMNASIUM FLOORING AND BASE SYSTEM.	WWF	WELDED WIRE FABRIC
GYP1	5/8" TYPE 'X' GYPSUM BOARD.	X	
GYP2	5/8" TYPE 'X' GYPSUM BOARD, MOISTURE RESISTANT.	Y	
GYPA	5/8" TYPE 'X' GYPSUM BOARD, IMPACT RESISTANT.	Z	
H			
H	HEIGHT // HIGH.		
HC	HANDICAP ACCESSIBLE		
HDW	HARDWARE [DOOR // WINDOW]		
HHH	HORIZONTAL ROLLING HANGAR DOOR		
HR	HOUR		
HVAC	HEATING, VENTILATION AND AIR CONDITIONING.		
HM	HOLLOW METAL.		
HORIZ	HORIZONTAL.		
I			
J		SYMBOLS	
K		@	AT
L		&	AND
LMIR	LARGE MISSILE IMPACT RATED [DOOR // WINDOW].	#	NUMBER
LVP	LUXURY VINYL PLANK FLOORING		
M			
MATL	MATERIAL.		
MAX	MAXIMUM.		
MECH	MECHANICAL.		
MI	MIRROR IMAGE		
MTLB	METAL BUILDING		

DATE: _____ DRAWN BY: mtd PROJECT NO: 2119 REVISIONS: _____

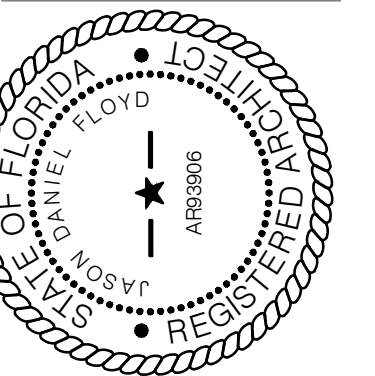
18 Jan 2023 For Bid

MISCELLANEOUS

G1.02

FORT WALTON BEACH
MUSEUM ADDITION

139 Miracle Strip Pkwy SE
Fort Walton Beach, FL



jdf+ architecture llc
201 Hollywood Blvd ne | Ft. Walton Beach | Florida | 32548
850.446.2166 | www.jdfarchitecture.com

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FWB MUSEUM ADDITION

A MUNICIPAL DEVELOPMENT IN SECTION 24, TOWNSHIP 2 SOUTH, RANGE 24 WEST CITY OF FORT WALTON BEACH, OKALOOSA COUNTY, FLORIDA SITE IMPROVEMENT PLANS

DUTY TO INDEMNIFY:

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE OWNER AND ENGINEER AND THEIR RESPECTIVE MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

UTILITIES NOTE

CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE WITH UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION.

UTILITY COMPANIES

CONTRACTOR SHALL HAVE ALL EXISTING BURIED UTILITIES "LINE SPOTTED" BY CALLING 1-800-432-4770 "CALL SUNSHINE" OR BY CONTACTING LOCAL UTILITY COMPANIES.

WATER & SEWER: CITY OF FT. WALTON BEACH
203 B HOLLYWOOD BLVD., NW
FT. WALTON BEACH, FL 32548
PHONE: (850) 833-9613 - WATER
PHONE: (850) 833-9613 - SEWER
LINE SPOT: (850) 833-9613

ELECTRIC: GULF POWER
140 HOLLYWOOD BLVD. SW
FT. WALTON BEACH, FL 32548
CONTACT: EDDIE THOMASON
PHONE: (850) 833-4826

GAS: OKALOOSA GAS DISTRICT
364 HIGHWAY 190
P.O. BOX 548
VALPARAISO, FL 32580
CONTACT: ESSA RHEBI, ENGINEERING
PHONE: (850) 729-4864
FAX: (850) 678-2165
LINE SPOT: (850) 729-4880

CABLE TV: COX COMMUNICATIONS
ENGINEERING DEPARTMENT
320 NW RACETRACK ROAD
FT. WALTON BEACH, FL 32547
CONTACT: ROGER DIXON
PHONE: (850) 314-8121
FAX: (850) 863-7061
LINE SPOT: (850) 862-4144

TELEPHONE: CENTURY LINK
P.O. BOX 1778
FT. WALTON BEACH, FL 32549
MAIL CODE 2722
PHONE: (850) 664-3763
LINE SPOT: (800) 432-4770

DATE PREPARED:

18 NOVEMBER 2022

REVISIONS:

PREPARED BY:

CHOCTAW ENGINEERING, INC.
112 TRUXTON AVENUE
FT. WALTON BEACH, FL 32547
PHONE: (850) 862-6611
FAX: (850) 863-8059
msiner@choctaweng.com

CEI PROJECT NO.: 2021-153

PREPARED FOR:

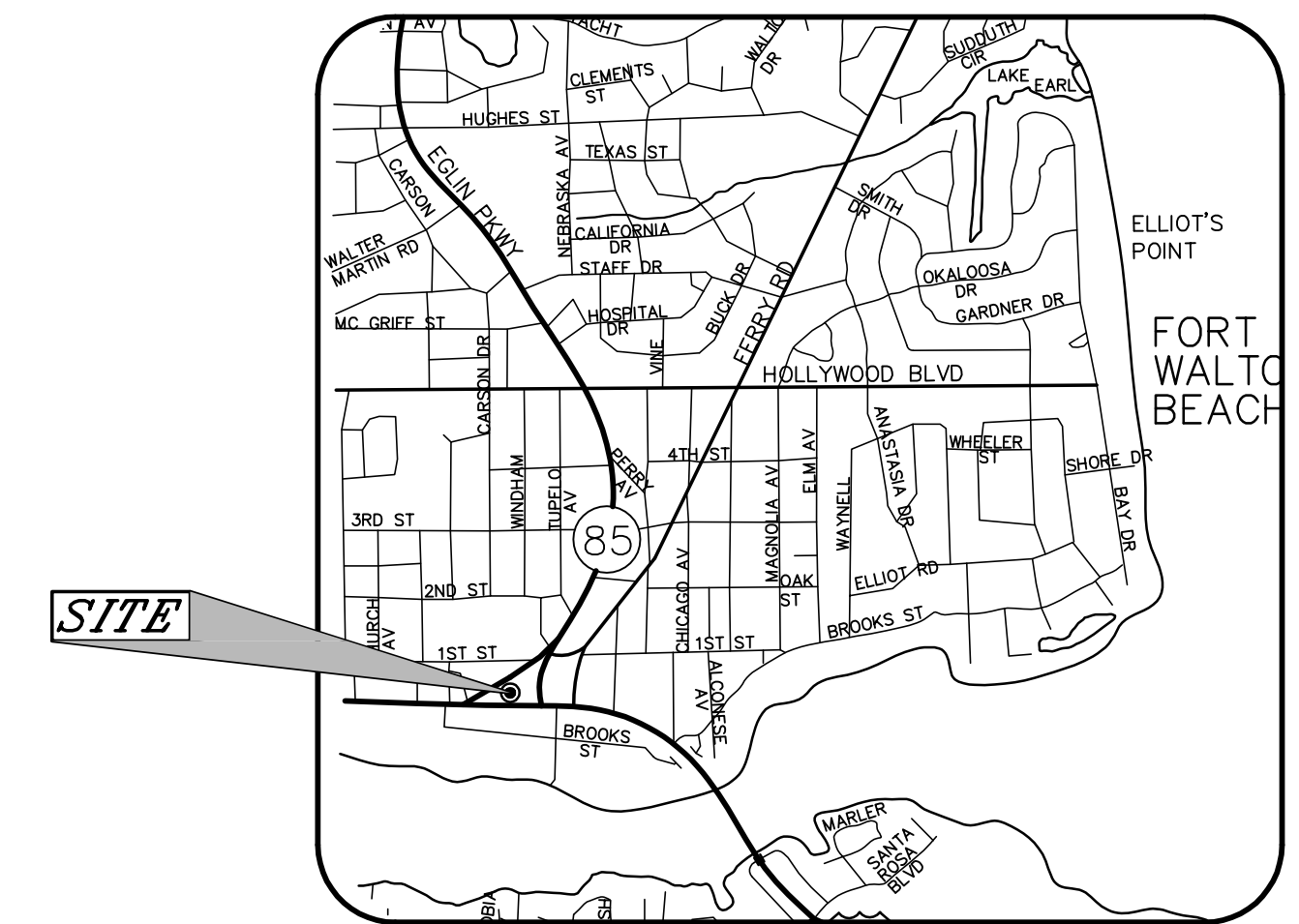
JDF ARCHITECTURE
201 HOLLYWOOD BOULEVARD
FT. WALTON BEACH, FL. 32548
PHONE: (850) 496-2166
EMAIL: J.FLOYD@JDFARCHITECTURE

BENCHMARK INFORMATION:

BENCHMARK NO. 1:
EX. DRAINAGE MANHOLE
ELEV.: 14.14'

LEGAL DESCRIPTION:

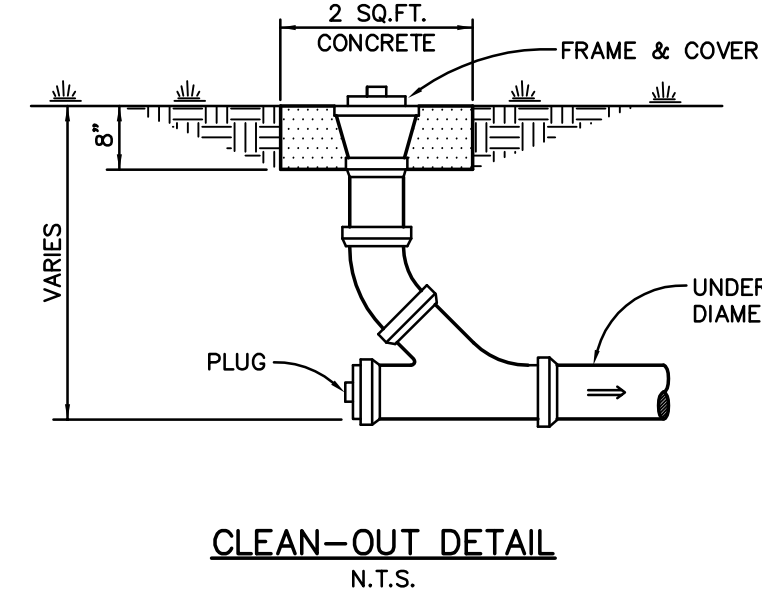
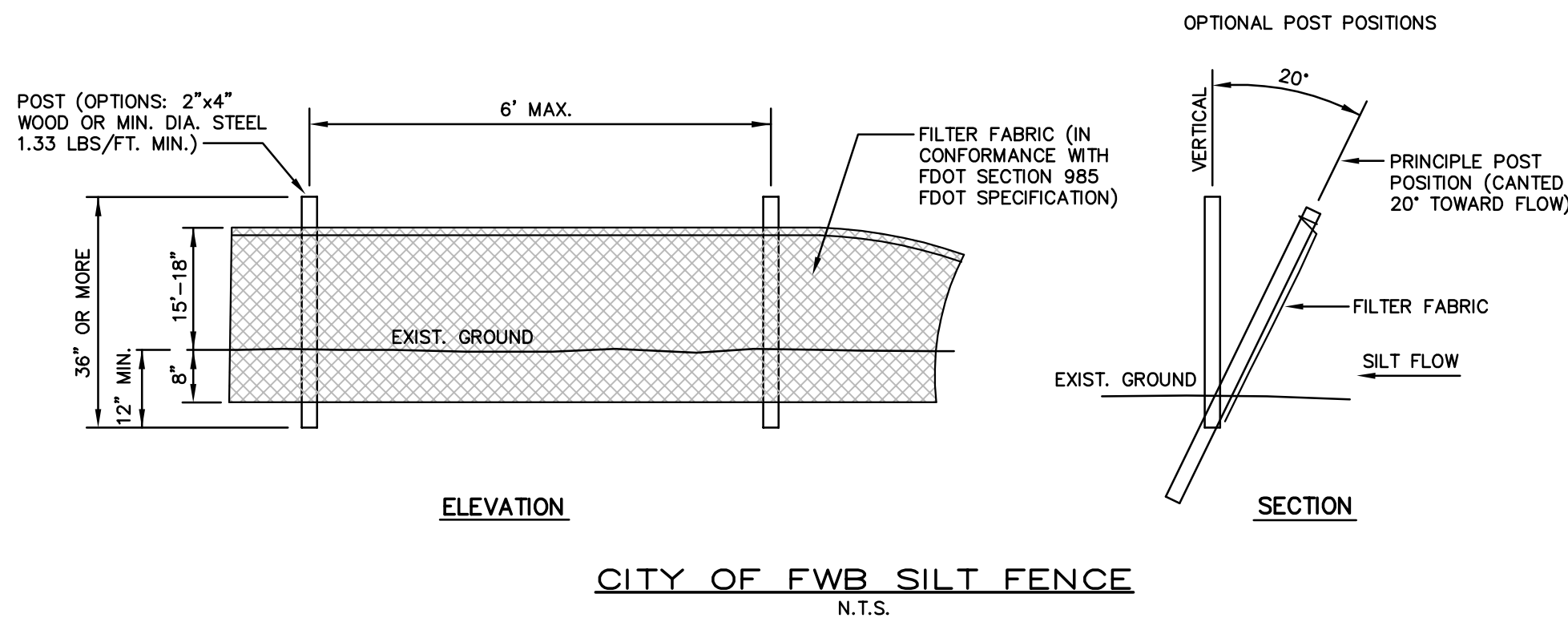
COMMENCING AT THE NW CORNER OF SECTION 24, TOWNSHIP 2 SOUTH, RANGE 24 WEST, RUNNING THENCE EAST ON THE SECTION LINE BETWEEN SECTIONS 24 AND 13, A DISTANCE OF 2323 FEET; THENCE SOUTH ON A LINE PARALLEL WITH THE WESTERN LINE OF SAID SECTION 24 AND 2323 FEET DISTANCE THEREFROM A DISTANCE OF 350 FEET, MORE OR LESS FOR POB; RUNNING THENCE ALONG THE LINE LAST TRAVERSED A FURTHER DISTANCE OF 100 FEET MORE OR LESS TO THE NORTH LINE OF STATE HIGHWAY NO. 115; THENCE EAST ON THE NORTH R/W LINE OF HIGHWAY NO. 115, A DISTANCE OF 30 FEET; THENCE NORTH 100 FEET, THENCE WEST 30 FEET TO THE POB, IN OKALOOSA COUNTY, STATE OF FLORIDA.



LOCATION MAP
NOT TO SCALE

INDEX:

1. COVER SHEET
2. DEMOLITION, SITE & GRADING PLAN
3. SPECIFICATIONS (1 OF 2)
4. SPECIFICATIONS (2 OF 2)



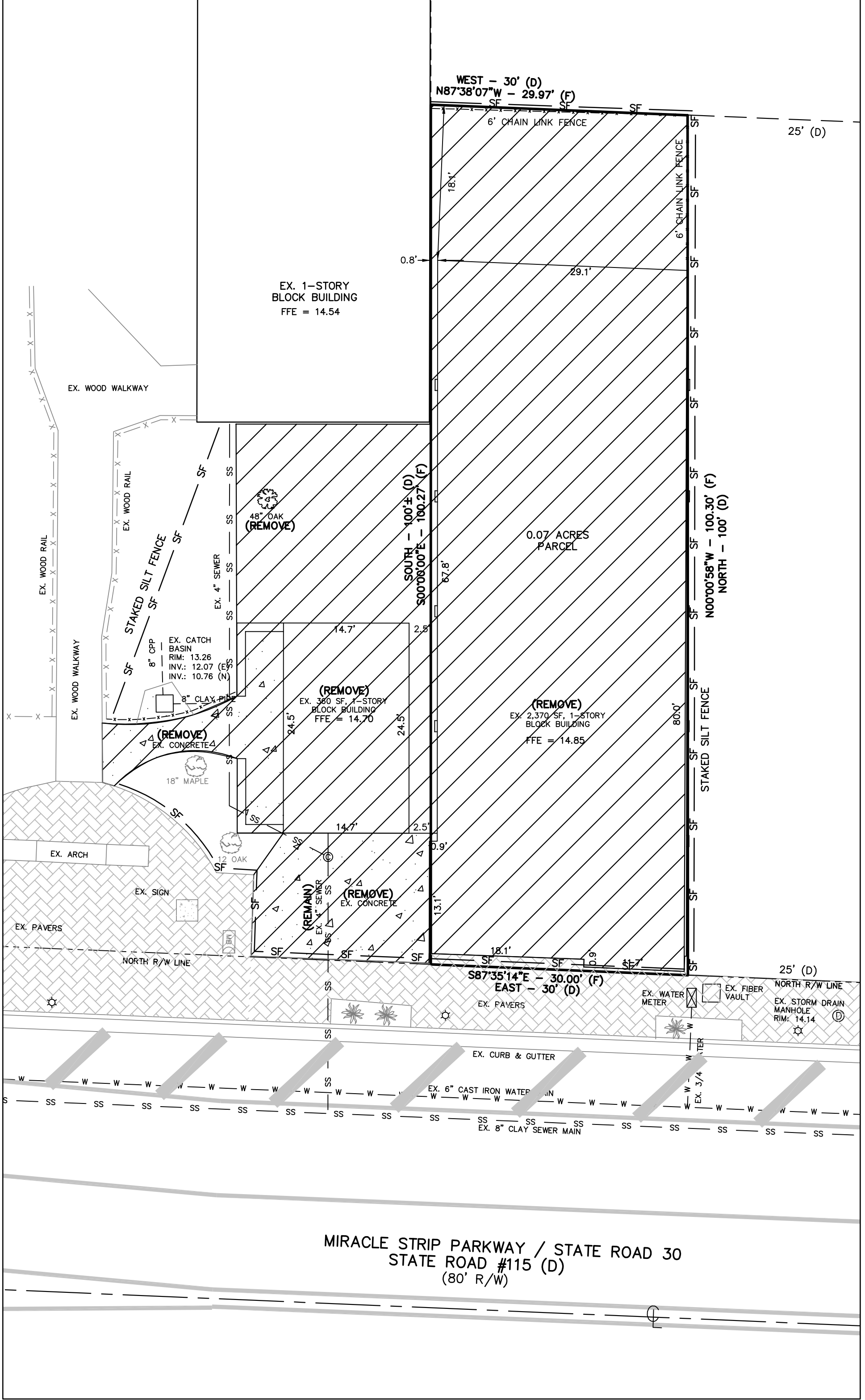
SITE DATA TABLE:

ZONED: MX-2
 LAND USE: MU
 FLOOD ZONE: X*
 PARCEL ID #: 24-25-24-0000-0085-0000
 BUILDING SETBACKS:
 REQUIRED: FRONT = 5'
 SIDE = 5'
 REAR = 15'
 BUILDING INFORMATION:
 BUILDING HEIGHT: 14'
 GROSS FLOOR AREA: 2,950 SF
 LIMITS OF CONSTRUCTION: 4,410 SF
 IMPERVIOUS AREA REMOVED: 3,250 SF
 IMPERVIOUS AREA ADDED: 3,730 SF
 PARKING SPACES REQUIRED: 1/4000 (4,410) = 2 SPACES
 PARKING SPACES PROVIDED: ON-STREET
 BICYCLE SPACES REQUIRED: 1 PER 4 SPACES = 1 SPACE
 BICYCLE SPACES PROVIDED: 1 SPACE
 * FLOOD ZONE INFORMATION PER FLOOD INSURANCE RATE MAP OF OKALOOSA COUNTY, FLORIDA, COMMUNITY PANEL NO. 120174-0463-J, DATED 09 MARCH 2021.

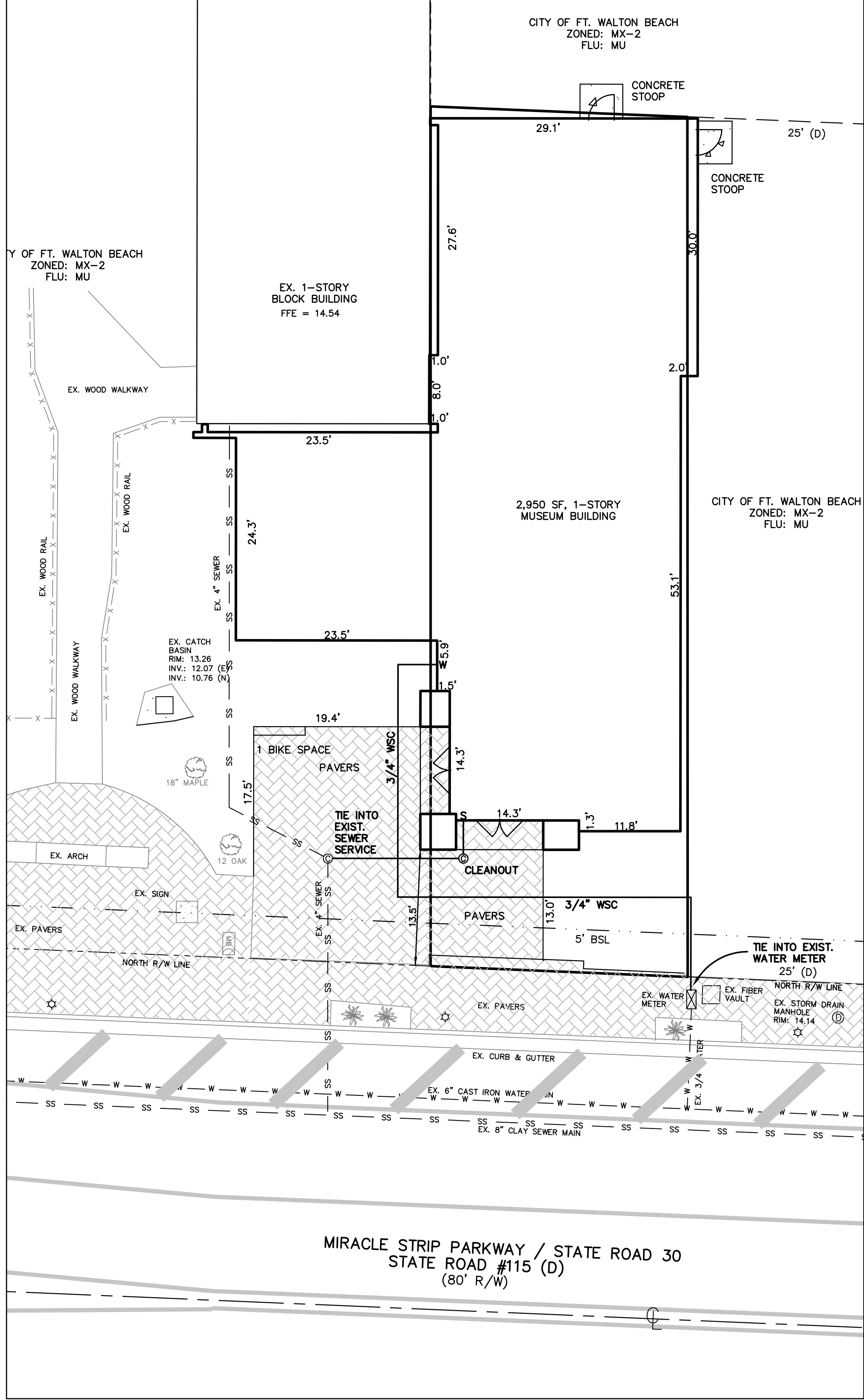
LEGEND

	EXISTING FEATURES TO BE REMOVED		ASPHALT
	DIRECTION OF STORMWATER RUNOFF		CONCRETE
	FFE FINISHED FLOOR ELEVATION		SETBACK LINE
	DHW DESIGN HIGH WATER		POWER POLE
	PERC TEST LOCATION		GUY ANCHOR
	BENCHMARK		LIGHT POLE
	PROPOSED SPOT GRADE		OVERHEAD UTILITY LINE
	EXISTING SPOT GRADE		ELECTRICAL BOX
	EXISTING CONTOUR		TELEVISION BOX
	PROPOSED CONTOUR		TRAFFIC SIGNAL BOX
	STAKED SILT FENCE		TELEPHONE BOX
	BASIN AREA		FENCE
			TRAFFIC ARROW
			CENTERLINE
			SINGLE POLE SIGN
			DOUBLE POLE SIGN
			MONITORING WELL

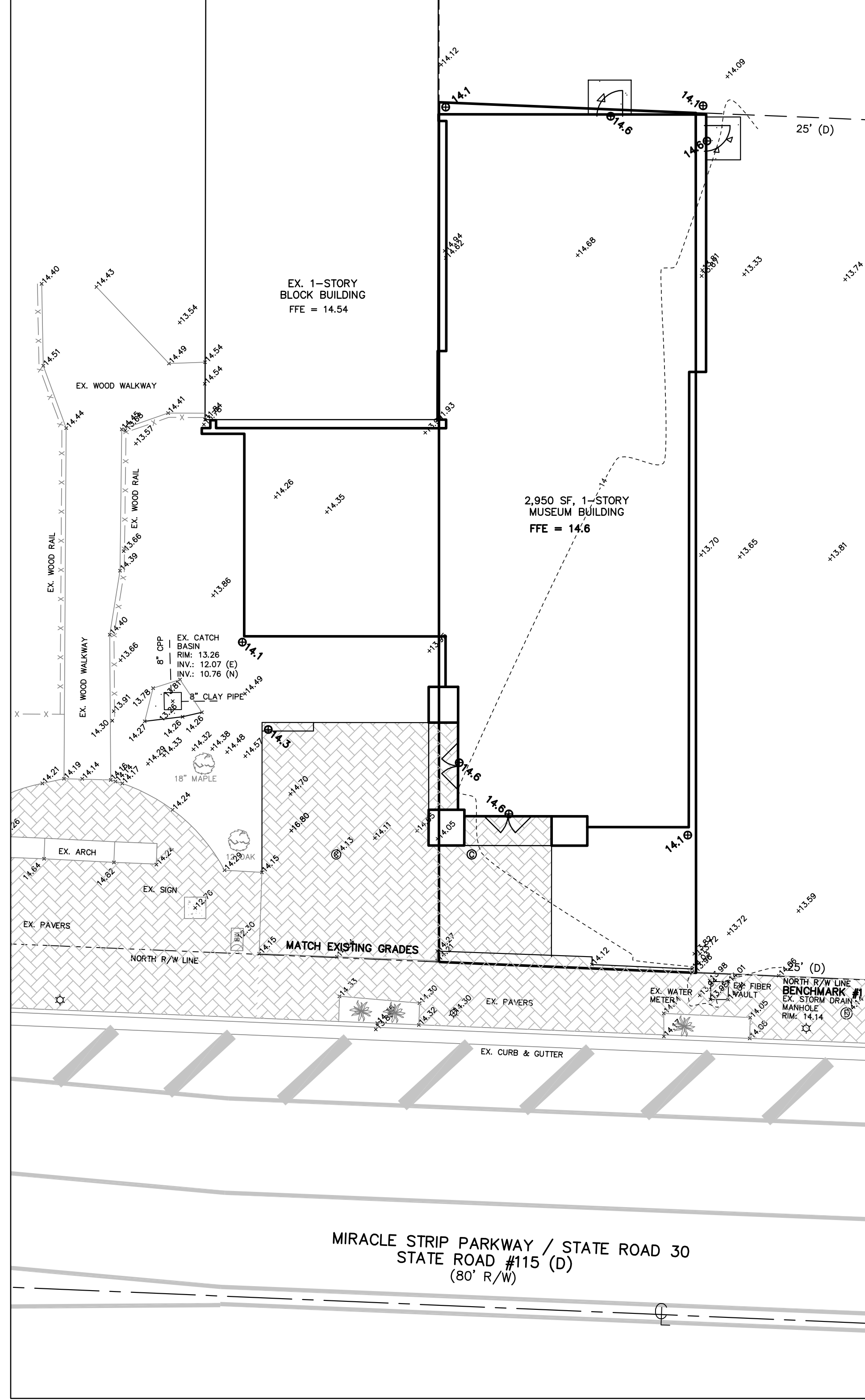
GRAPHIC SCALE
 10 0 5 10 20
 (IN FEET)
 SCALE: 1" = 10 ft.



DEMOLITION PLAN



SITE PLAN



GRADING PLAN

CHOCTAW ENGINEERING, INC.
 ENGINEERING • ENVIRONMENTAL • SURVEYING
 112 TRUXTON AVENUE
 FORT WALTON BEACH, FLORIDA 32547
 PHONE: 850-862-6611
 FAX: 850-863-8059
 EMAIL: cei@choctaweng.com

CEI

FWB MUSEUM ADDITION
DEMOLITION, SITE & GRADING PLAN
 Not valid unless bearing Engineer's embossed seal.
 MARK C. SNIER, P.E.
 FL. REG. NO. 48631

Job No.: 2021-153
 Date: 18 NOV 2022
 Fl. Vol.: N/A
 Scale: 1"=10'
 Disk No.: 21153-ENG
 Designed: MCS
 Drawn: CRG
 Checked: MCS
 Sheet

2 of 4

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SPECIFICATION: CLEARING AND GRUBBING

All site Clearing and Grubbing shall be in accordance with section 110 of the "Florida Department of Transportation Specifications for Road and Bridge Construction" unless modified herein. This work shall be performed in the following areas:
A. All street rights-of-way.
B. All areas where excavation or embankment are to be installed.
C. Detention areas.
In addition, certain other areas where underground utilities are to be taken care to be cleared and grubbed to the extent necessary to properly install the utilities. Such work shall be incidental to the contract unit price for the utility to be installed.

SCOPE: Site clearing work includes, but is not limited to:
A. Removal of trees and other vegetation.
B. Topsoil stripping.
C. Clearing and grubbing.
D. Removing above grade improvements.
E. Removing below grade improvements.

JOB CONDITIONS:

Traffic:
Conduct site clearing operations to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from the Owners and or Local approving authority.

Clearing and Protection in Construction Areas:
Preserve trees 6 inches or larger measured breast height (6"dbh) where possible within construction area.

Protection of Existing Improvements:
Provide protection necessary to prevent damage to existing improvements indicated to remain in place.

Protect improvements on adjoining properties and on project site.

Restore damaged improvements to original condition as acceptable to the Owner.

LIMITATIONS:

Clearing will be limited to the extent necessary to allow for construction of the proposed improvements as a result of:
Need for access to the project site for construction equipment.
Essential grade changes.
Surface water drainage and utility installation.
Location of driveways, buildings, and required parking.

CLEARING AND GRUBBING:

Remove trees, shrubs, grass, other vegetation, improvements, or obstructions interfering with the installation of new construction. Removal includes digging out stumps and roots. Do not remove items elsewhere on site or premises unless specifically indicated. Disposal of trees, limbs, stumps, and debris shall be the responsibility of the Contractor.

Strip topsoil to whatever depths encountered to prevent intermingling with underlying subsoil or other objectionable material. Cut heavy growths of grass from areas before stripping.

Stockpile topsoil in storage piles in areas shown or where directed by the Owner. Construct storage piles to freely drain surface water. Cover storage piles if required to prevent windblown dust.

Dispose of unsuitable or excess topsoil same as specified for waste material.

FILLING:

Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.

Place fill material in horizontal layers not exceeding 6" loose depth, and thoroughly compact to density equal to adjacent ground, unless otherwise shown on the plans.

REMOVAL OF IMPROVEMENTS:

Remove existing above and below grade improvements and abandoned underground piping or conduit necessary to permit construction and other work.

DISPOSAL OF WASTE MATERIALS:

No burning of any material, debris, or trash will be allowed.
Remove waste materials from project site on a daily basis and dispose of off-site in an approved area.

SPECIFICATION: EXCAVATION, EMBANKMENT AND SUBGRADE:

EXCAVATION, EMBANKMENT AND SUBGRADE: Shall be performed in accordance with Section 120 of the Florida D.O.T. Specifications. All subgrade fill material, and the top 12 inches in cut area, shall be compacted to 100 percent of maximum density as determined by AASHTO T-99. The Subgrade Compaction (Stabilization) shall conform to Section 160 of the Florida D.O.T. Specifications, in most cases this will consist of compacting existing cleaned soil. However, it is the contractor's responsibility to assure that the finished roadbed section meets bearing value requirements, regardless of the quantity of stabilizing materials to be added. One field density test shall be taken for each 5000 square feet or fraction thereof.

Where required subgrade density cannot be obtained, unsuitable material shall be removed so that the road base will be constructed on a minimum of 3 feet of suitable, properly compacted material. This work shall be included in the contract lump sum price for earth excavation.

SOIL CEMENT BASE: As a minimum the soil cement base course will conform generally to Section 270 of the Florida D.O.T. Specifications for Road and Bridge Construction. The detailed specifications of the soil cement base course are to be determined by an independent testing laboratory after testing of the material the contractor proposes to use. Moisture and cement content will be specified by the laboratory. However, as a guide for bid purposes, estimate 12% cement by weight and include a price reduction schedule if tests show less cement is required. The soil cement mix will be at optimum moisture content, i.e., neither mushy nor dry, but containing sufficient moisture to make a firm case when squeezed in the hand. Water should not appear on the hand when so squeezed. This requires 5 to 6 gallons per square yard but actual quantity of water to be added will depend on latent moisture in the base material. From a practical standpoint the highest moisture content should be maintained that permits packing and finishing without surface checking, shoving or rutting during compaction and finishing operations.

The freshly compacted and finished soil-cement mix must be adequately cured. An application of bituminous material such as RC-2, MC-3, RT-5 or asphaltic emulsion at the rate of 0.15 to 0.20 gal per square yard is preferred as the curing medium. Waterproof paper or moist hay is acceptable if properly maintained.

SAND-CLAY BASE COURSE: Shall comply with the requirements of Sections 240 and 912 of the Florida D.O.T. Specifications. Tests necessary to determine compliance with Section 912 shall be performed prior to placing the material on the roadbed. These tests include:

1. Composition and gradation	Percent of material passing the 10-mesh sieve
Clay (material smaller than 0.005mm)	8 to 21
Silt (material from 0.005 to 0.005mm)	0 to 10
Combined clay and silt	8 to 25
2. Limerock Bearing Ratio Value(LBR)	at least 75
3. Liquid Limit	Not greater than 25
4. Plasticity Index	Not greater than 6

The results of these tests shall be submitted to the engineer for approval. After approval of the material, the sand-clay base course shall be placed in accordance with Section 240. The base course shall be compacted to not less than 98 percent of the maximum density as determined by AASHTO T-180. One density test shall be taken for each 5000 square feet or fraction thereof.
NOTE: Sand Clay base material shall not be used in areas where the seasonal high groundwater table is within two (2) feet of the bottom of the base material.

LIMEROCK BASE COURSE: Shall be constructed in accordance with Section 200 of the Florida D.O.T. Specifications for Road and Bridge Construction. The material shall meet the requirements of Section 911 of the Specifications. Tests necessary to determine compliance with Section 911 shall be performed prior to placing the material on the subgrade. These tests include:

Test	Requirement
1. Liquid Limit	Less than 35
2. Plastic Index	Non-Plastic
3. Gradation	97% passing 3.5 inch sieve
4. Limerock Bearing Ratio	Not less than 100

The results of these tests shall be submitted to the engineer for approval. After approval of the material, the limerock base course shall be placed in accordance with Section 200. The base course shall be compacted to not less than 98 percent of the maximum density as determined by AASHTO T-180. A minimum of three density tests shall be made on each day's compaction operations. More frequent tests shall be made as deemed necessary by the Engineer. The base shall be installed to a compacted thickness as shown on the plans, plus or minus one half inch. Deviations from this specification shall be corrected as indicated in the State Specifications.

GRADED AGGREGATE BASE COURSE: Shall comply with the requirements of Section 204 of the Florida D.O.T. Specifications. Tests necessary to determine compliance with Section 204 shall be performed prior to placing the material. These tests include:

1. Soundness Loss, Sodium Sulfate: AASHTO T 104.
2. Percent Wear: AASHTO T 96 (Grading A).
3. Sieve Analysis.
4. Limerock Bearing Ratio Value.

The results of these tests shall be submitted to the engineer for approval. After the approval of the material, the graded aggregate base course shall be placed in accordance with Section 204. The base course shall be compacted to a density of not less than 100 percent of the maximum density as determined by AASHTO T 160. At least three density tests shall be made on each day's final compaction operation of each course, and the density determinations shall be made at more frequent intervals if deemed necessary by the Engineer.

ASPHALT BASE COURSE: Shall comply with the requirements of Sections 280, 330, 331, and 916 of the Florida D.O.T. Specifications. The design mix for Asphaltic Base Course Type 3 shall conform to the requirements in Tables 331-1 and 331-2. The Minimum Marshall stability shall be 1000 lbs./sq. in. as indicated in Table 331-2. Percent bitumen by weight of total mix: 5.0 (minimum). Two copies each of the actual design mix shall be submitted to the Engineer. Written approval of the Asphalt base course design mix must be obtained from the engineer prior to commencing base course construction. Once the design mix has been approved by the engineer, sieve analysis tolerances indicated in Table 331-5 are allowable during construction. If sieve analysis values fall outside these tolerances, design mix must be resubmitted for acceptance. After the approval of the mix design, the Asphalt base course shall be placed in accordance with Section 280 and compacted in accordance with Section 330-10.

NOTE: STORMWATER DRAINAGE SHALL BE CONTROLLED DURING ALL PHASES OF CONSTRUCTION.

SPECIFICATION: ASPHALT CONCRETE PAVING

SCOPE: This section includes materials and work required for installation of flexible asphaltic concrete pavement for parking and drive areas shown on the plans.

APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications shall be the most current issue and are referred to in the text by the basic designation only. The following are minimum requirements and shall govern except that all local, state, and/or federal codes and ordinances shall govern when their requirements are in excess hereof. All asphalt construction shall be in accordance with applicable sections of the Florida Department of Transportation Specifications for Road and Bridge Construction unless modified herein.

A. Florida Department of Transportation Specifications:		
Section 901	Course Aggregate	
Section 902	Fine Aggregate	
Section 916	Bituminous Materials	
Section 917	Mineral Filler	
Section 300	Bituminous Treatments, Surface Courses and Concrete Pavement	
Section 331	Type S Asphalt Concrete	
B. American Society for Testing and Materials (ASTM) Publications:		
D 1557	Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10 lb (4.54 kg) Rammer and 18-in. (457 mm) Drop.	
D 1559	Marshall Stability Mix Design	

SUBMITTALS:

- A. Asphalt Design Mix:
 1. Before any asphalt surface is constructed, submit two copies of each of the actual design mix to the Engineer and Owner.
 2. Written approval of the asphaltic concrete design mix must be obtained from the Engineer and Owner prior to commencing asphalt pavement construction.
- B. Material Certificates: Furnish copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds specified requirements.
- C. Asphalt extraction tests.
- D. Aggregate gradation tests.
- E. Marshall stability tests.

JOB CONDITIONS:

A. Weather limitations: Apply prime and tack coats when ambient temperature is above 40 degrees, and when temperature has not been below 35 degrees for 12 hours prior to application. Do not apply when base is wet or contains excess moisture.

MATERIALS:

- A. Mineral Filler: Rock dust, hydraulic cement, or other inert material complying with section 917 of the Florida DOT Specifications.
- B. Asphalt Cement: The bituminous material shall be AC-20, viscosity grade and comply with section 916 of the Florida DOT Specifications.
- C. Course Aggregate: Comply with section 901 of the Florida DOT Specifications.
- D. Fine Aggregate: Comply with section 902 of the Florida DOT Specifications.
- E. Prime Coat and Tack Coat: The bituminous material for the Prime Coat shall be MC-70. The bituminous material for the Tack Coat shall be AC-20, or Emulsified asphalt, grade RS-2 and comply with the requirements in Section 300 and 916 of the Florida DOT Specifications.
- F. Asphaltic Concrete Design Mixes:
 1. Asphalt shall conform to the requirements for Type S Asphalt as indicated in Section 331 of the Florida DOT Specifications.
 2. Mix shall be within sieve analysis and bitumen range given in Section 331 of the Florida DOT Specifications.
 3. Minimum Marshall stability shall be in 1500 lbs./sq. in. as indicated in Table 331-2 of the Florida DOT Specifications.
 4. Percent bitumen by weight of total weight mix: 5.0 - 8.5.
 5. Once design mix has been accepted by Engineer and Owner, sieve analysis tolerances indicated in Table 331-5 are allowable during construction. If sieve analysis analysis values fall outside these tolerances, design mix must be resubmitted for acceptance.
 6. Provide asphalt-aggregate mixture as recommended by local or state paving authorities to suit project conditions. Use locally available materials and gradations which meet Florida DOT Specifications and exhibit satisfactory record on previous installations.

BASE COURSE PREPARATION:

- A. Prior to construction of the base course, the top 12 inches of subgrade shall be compacted to a minimum soil density of 98% of the Modified Proctor Test Density (ASTM 1557). The subgrade shall be sterilized by a borate or chlorate sterilant containing not less than 25% sodium chlorate and shall be mixed thoroughly with water at the rate of 1-1/2 lbs. of sterilant per gallon of water. The sterilant shall be applied evenly at the rate of 0.2 gallons per square yard to subgrades that are less than 12" below original grades. If prepared base course will not be immediately covered with asphalt on the same day and wind-blown seeds will contaminate the base course surface, the sterilants shall be applied to the base course contaminate the base course.
- B. Remove loose material from compacted base material surface immediately before applying prime coat.
- C. Proof roll prepared base material surface to ensure unstable areas have been corrected and are ready to receive paving.

D. Prime Coat:

1. Apply bituminous prime coat to base material surfaces where asphaltic concrete paving will be constructed.
2. Apply bituminous prime coat in accordance with Section 300 of Florida DOT Specifications.
3. Apply at minimum rate of not less than 0.15 gal./sq. yd. over compacted base material. Apply material to penetrate and seal, but not flood, surface.
4. Cure and dry as long as necessary to attain penetration and evaporation of volatile.

E. Tack Coat:

1. Tack coat shall be applied in accordance with Section 300 of Florida DOT Specifications. Apply to contact surfaces of previously constructed asphalt or portland cement and concrete and surfaces abutting or projecting into asphalt concrete pavement.
2. Apply tack coat to full depth asphalt base course and sand asphalt base course. Apply emulsified asphalt tack coat between each lift or layer of full depth asphalt and sand asphalt bases and on surface of such bases where asphaltic concrete paving will be constructed.
3. Distribute at rate of 0.08 gal./sq. yd. of surface.
4. Allow to dry until at proper condition to receive paving.

PLACING ASPHALT MIX:

- A. Place asphalt concrete mixture on prepared surface, spread, and strike off. Spread mixture at the following minimum temperatures:
 1. When ambient temperature is between 40 degrees F and 50 degrees F: 285 degrees F.
 2. When ambient temperature is between 50 degrees F and 60 degrees F: 280 degrees F.
 3. When ambient temperature is higher than 60 degrees F: 275 degrees F.
- B. Place inaccessible and small areas by hand. Place each course to required grade, cross-section, and compacted thickness.
- C. Paver Placing:
 1. Place in strips not less than 10'-0" wide, unless otherwise acceptable to the Contracting Officer.
 2. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips.
- D. Joints:
 1. Construct joints between old and new pavements as detailed in the plans.
 2. Joints between successive days' work shall be constructed to ensure continuous bond between adjoining work.
 3. Construct joints to have same texture, density, and smoothness as other sections of asphalt concrete course.
 4. Clean contact surfaces and apply tack coat.

COMPACTION:

- A. Each lift of asphalt shall be compacted to a minimum of 98% of the Marshall test ASTM D1559).
- B. Begin rolling when mixture will bear roller weight without excessive displacement.
- C. Compact mixture with hot hand tampers or vibrating plate compactors in areas inaccessible to rollers.
- D. Breakdown Rolling:
 1. Accomplish breakdown or initial rolling immediately following rolling of joints and outside edge.
 2. Check surface after breakdown rolling, and repair displaced areas by loosening and filling, if required, with hot material.
- E. Second Rolling:
 1. Follow breakdown rolling as soon as possible, while mixture is hot.
 2. Continue second rolling until mixture has been thoroughly compacted.
- F. Finish Rolling:
 1. Perform finish rolling while mixture is still warm enough for removal of roller marks.
 2. Continue rolling until roller marks are eliminated and course has attained maximum density.

G. Patching:

1. Remove and replace paving areas mixed with foreign materials and defective areas.
 2. Cut out such areas and fill with fresh, hot asphalt concrete.
 3. Compact by rolling to maximum surface density and smoothness.
- H. Protection:**
1. After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
 2. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

FIELD QUALITY CONTROL:

- A. An Independent Testing Laboratory, selected and paid by the contractor shall be retained to perform construction testing of in-place asphalt courses for Asphalt Extraction, Aggregate gradation, Marshall Stability, thickness and surface smoothness.
- B. Thickness: In-place compacted thickness shall not be less than thickness specified on the drawings.
- C. Surface Smoothness: Testing shall be performed on the finished surface of each asphalt concrete course for smoothness, using 10'-0" straightedge applied parallel with, and at right angles to centerline of paved area. The variation of the surface from the edge of the straight edge between any two contact points shall not exceed 1/4". Check surface areas at intervals necessary to eliminate ponding areas. Repair or remove and replace unacceptable paving as directed by the Contracting Officer.
- D. Asphalt content, Aggregate gradation, and Marshall Stability shall be as specified in Section 331 of the Florida DOT Specifications.

SPECIFICATION: PORTLAND CEMENT CONCRETE PAVING

SCOPE: This section includes sidewalks, curbs, and miscellaneous concrete pavement.

APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications shall be the most current issue and are referred to in the text by the basic designation only. The following are minimum requirements and shall govern except that all local, state, and/or federal codes and ordinances shall govern when their requirements are in excess hereof. All concrete construction shall be in accordance with applicable sections of the Florida Department of Transportation Specifications for Road and Bridge Construction unless modified herein.

A. Florida Department of Transportation Specifications:

Section 345	Portland Cement Concrete
Section 350	Cement Concrete Pavement
Section 520	Concrete Gutter, Curb Elements and Traffic Separator
Section 931	Metal Accessory Materials for Concrete Pavement and Concrete Structures

B. American Society for Testing and Materials (ASTM) Publications:

A 615	Deformed and Plain Billet Steel Bars for Concrete Reinforcement
D 1557	Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-lb. (4.54 kg) Rammer and 18-in. (457 mm) Drop.
D 1751	Preformed Expansion Joint Filler for Concrete Paving and Structural Construction. (Nonextruding and Resilient Bituminous Types)

SUBMITTALS:

A. Material Certifications: Furnish copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

MATERIALS:

- A. Forms:
 1. Steel, wood, or other suitable material of size and strength to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects.
 2. Use flexible spring steel forms or laminated boards to form radius bends as required.
- B. Form Release Agent:
 1. Coat forms with nonstaining type coating that will not discolor or deface surface of concrete.
- C. Welded Wire Mesh:
 1. Welded plain cold-drawn steel wire fabric. Furnish in flat sheets, not rolls, unless otherwise acceptable to Contracting Officer. Welded wire mesh shall be free from rust, dirt, foreign matter and shall not be stored directly on the ground. Wire fabric shall comply with Sections 931 of the Florida DOT Specifications.
- D. Reinforcing Bars:
 1. Deformed steel bars, ASTM A 615, Grade 40. Reinforcing bars shall be free from rust, dirt, foreign matter and shall not be stored directly on the ground. Deformed steel bars shall comply with Section 931 of the Florida DOT Specifications.
- E. Concrete Materials:
 1. Comply with requirements of Sections 345 and 350 of the Florida DOT Specifications for concrete materials, admixture, bonding materials, curing materials, and others as required.
- F. Joint Fillers:
 1. Resilient preformed bituminous impregnated fiberboard units complying with ASTM D1751. Joint fillers shall comply with Section 932 of the Florida DOT Specifications.

MIXING:

- A. Design mix to produce normal weight concrete consisting of Portland cement, aggregate, water-reducing or high-range water reducing admixture (super-plasticizer), air-entraining admixture and water to produce following properties:
 1. Compressive Strength: Minimum 3,000 psi for curb and walkways and 4,000 psi for pavement, at 28 days. In addition, concrete for pavement shall have a minimum modulus of rupture of 600 psi.
 2. Slump Range: 3"-5".
 3. Air Content: 3% to 6%.

PREPARATION:

- A. Surface Preparation:
 1. Remove loose material from compacted base material surface immediately before placing concrete.
- B. Compact the top 12 inches of subgrade to a minimum soil density of 98% for the Modified Proctor Test (ASTM D1557) to result in a minimum modulus of subgrade reaction (k) of 150 psi/in. Proof-roll prepared base material surface to check for unstable areas. The paving work shall begin after the unsuitable areas have been corrected and are ready to receive paving. Compaction testing for the base material shall be completed prior to the placement of the paving.

CONCRETE INSTALLATION:

- A. Form Construction:
 1. Set forms to required grades and lines, rigidly braced and secured. Install sufficient quantity of forms to allow continuous progress of work and so that forms can remain in place at least 24 hours after concrete placement.
 2. Check completed formwork for grade and alignment to following tolerances:
 - A. Top of forms not more than 1/8" in 10'-0".
 - B. Vertical face on longitudinal axis, not more than 1/4" in 10'-0".
 3. Clean forms after each use, and coat with form release agent as often as required to ensure separation from concrete without damage.
- B. Reinforcement:
 1. Locate, place, and support reinforcement to ensure compliance with plans.
- C. Concrete Placement:
 1. Comply with requirements of Sections 345, 350, and 520 of Florida DOT Specifications for mixing and placing concrete.
 2. Do not place concrete until base material and forms have been checked for line and grade. Moisten base material if required to provide uniform dampened condition at time concrete is placed. Concrete shall not be placed around manholes or other structures until they are at the required finish elevation and alignment.
 3. Place concrete using methods, which prevent segregation of mix. Consolidate concrete along face of forms and adjacent to transverse joints with internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Consolidate with care to prevent dislocation of reinforcing, dowels, and joint devices.
 4. Deposit and spread concrete in continuous operation between transverse joints, as far as possible. If interrupted for more than 1/2 hour place construction joint.
- D. Curbs and Gutters:
 1. Automatic machine may be used for curb and gutter placement at Contractor's option. Machine placement must produce curbs and gutters to required cross section, lines, grades, finish, and jointing as specified for formed concrete. If results are not acceptable, remove and replace with formed concrete as specified.

OKALOOSA COUNTY SPECIFICATIONS

CONTINUED ON NEXT COLUMN

CONTINUED ON NEXT COLUMN

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CONTINUED ON NEXT SHEET

CHOCTAW ENGINEERING, INC.
ENGINEERING • ENVIRONMENTAL • SURVEYING
PHONE: 850-862-6611
FAX: 850-863-8059
112 TRUXTON AVENUE
FORT WALTON BEACH, FLORIDA 32547
EMAIL: cei@choctaweng.com

CEI
CERTIFICATE OF AUTHORIZATION No. 1582

Revisions:

FWB MUSEUM ADDITION
SPECIFICATIONS (1 OF 2)
Not valid unless bearing Engineer's embossed seal.
MARK C. SNIER, P.E.
FL REG. NO. 48631

Job No.: 2021-153
Date: 18 NOV 2022
Fld. Vol.: N/A
Scale: N/A
Disk No.: 21153-MISC
Designed: MCS
Drawn: CRG
Checked: MCS
Sheet

THIS SHEET IS THE PROPERTY OF CEI & IS NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT FROM CEI.

JOINT CONSTRUCTION:

- A. Construct expansion, weakened-plane (Contraction), and construction joints true-to-line with face perpendicular to surface of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.
 1. Weakened-Plane (Contraction) Joints:
 - A. Provide weakened-plane (contraction) joints, sectioning concrete into areas at 15'-0" o.c. maximum each way.
 - B. Sidewalks shall have contraction joints at 5'-0" o.c.
 - C. Construct weakened-plane joints for depth equal to at least 1/4 concrete thickness.
 2. Tooled Joints:
 - A. Form weakened-plane joints in fresh concrete by grooving top portion with recommended cutting tool and finishing edges with jointer.
- B. Construction Joints:
 1. Plan concrete placement such that construction joints fall at expansion joints as detailed in the plans.
- C. Expansion Joints:
 1. Provide preformed joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walks, and other fixed objects.
 2. Locate expansion joints at 40'-0" o.c. maximum for each pavement lane or for curb.
 3. Locate expansion joints at 50'-0" o.c. maximum for walkways.
- D. Joint Fillers:
 1. Extend joint fillers full-width and depth of joint, and not less than 1/2" or more than 1" below finished surface where joint sealer is indicated.
 2. Furnish joint filler in one-piece lengths for full width being placed, wherever possible, where more than one length is required, lace or clip joint filler sections together.
- E. Joint Sealants:
 1. Exterior pavement joint sealants shall be composed of a non-priming, pourable, self-leveling type polyurethane sealant, such as grey step-calk, or approved equal suitable for use in pavements and sidewalks.

CONCRETE FINISHING:

- A. After striking-off and consolidating concrete, smooth surface by screeding and floating. Adjust floating to compact surface and produce uniform texture.
- B. After floating, test surface for trueness with 10'-0" straightedge (maximum deviation of 1/4 inch). Distribute concrete as required to remove surface irregularities, and refloat repaired areas to provide continuous smooth finish.
- C. Work edges of slabs, gutters, back top edge of curb, and formed joints with an edging tool, and round to 1/2" radius. Eliminate tool marks on concrete surface.
- D. After completion of floating and troweling when excess moisture or surface sheen has disappeared, complete surface finishing as follows:
 1. Curbs, Gutters, and Walks:
 - A. Broom finish by drawing fine-hair broom across concrete surface perpendicular to line of traffic. Repeat operation if required to provide fine line texture.
 2. Inclined Slab Surfaces:
 - A. Provide coarse, nonslip finish by scoring surface with stiff-bristled broom perpendicular to line of traffic.
 3. Paving:
 - A. Burlap finish by dragging seamless strip of damp burlap across concrete perpendicular to line of traffic. Repeat operation to provide gritty texture.
- E. Do not remove forms for 24 hours after concrete has been placed. After form removal, clean ends of joints and point up any minor honeycombed areas. Remove and replace areas or section with major defects, as directed.
- F. Protect and cure finished concrete paving in accordance with "Florida Department of Transportation Specifications for Road and Bridge Construction" section 350-13.

CLEANING AND ADJUSTING:

- A. Repair or replace broken or defective concrete as directed.
- B. Protect concrete from damage until acceptance of work. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials.
- C. Sweep concrete pavement and wash free of stains, discolorations, dirt, and other foreign material just prior to final inspection.

SPECIFICATION: FENCING

The Contractor shall install fencing as shown on the plans and in accordance with the manufacturer's brochure. The following are minimum requirements and shall govern except that all local, state and/or federal codes and ordinances shall govern when their requirements are in excess hereof.

MATERIAL CERTIFICATES:
Furnish copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

MATERIALS:
All materials and equipment incorporated in the work shall be new, clean, and free of visual defects unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not conforming to these requirements may be considered defective.

Height shall be as required as shown on the construction plans.

Fabric shall be #9 gauge, chain link open hearth steel wire, hot-dipped galvanized after weaving with minimum coating of 2.0 ounce of zinc per square foot or aluminum coating with .40 ounces per square foot, woven in 2" diamond mesh.

Line post, top, intermediate and bottom rails, shall be 1 5/8" O.D. steel pipe, weight 2.27 lbs per foot, hot-dipped galvanized. Set 36" deep in concrete.

Terminal, corner, gate and pull posts shall be 3" O.D. pipe, 5.79 lbs. Set 36" deep in concrete.

Concrete for setting posts shall be Portland Cement complying with ASTM C-150, aggregates complying with ASTM C-33, and clean water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 2,500 psi.

Stretcher bar bands, the wires, hog rings, couplings, nuts, stretcher bars, bolts, and miscellaneous fastening devices shall be manufacturer's standard for heavy construction fence.

Swing gates shall consist of the following components.

2" O.D. steel pipe 2.72 lbs. per foot, hot-dipped galvanized. Each frame to be equipped with 3/8" diameter adjustable truss rods.

Hinges shall be hot-dipped galvanized pressed steel or malleable iron to suit gate size, non-lift-off type. Hinges shall be offset to permit 180 degrees opening. Provide one (1) pair of hinges per lead.

Latch shall be forked type to permit operation from either side with provisions to lock both leaves with padlock.

ACCEPTABLE MANUFACTURERS: Cyclone Fence, Page Fence, and Hackney Corporation.

SPECIFICATION: TRAFFIC STRIPING AND PAINTING

The Contractor shall paint traffic striping as shown on the plans. The following are minimum requirements and shall govern except that all local, state and/or federal codes and ordinances shall govern when their requirements are in excess hereof. All traffic striping and painting shall be in accordance with sections 710, 711 and 971 of the "Florida Department of Transportation Specifications for Road and Bridge Construction" and "Florida Department of Transportation Roadway and Traffic Design Standards."

MATERIAL CERTIFICATES:
Furnish copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

TRAFFIC STRIPING AND PAINTING:
Traffic control markings shall be marked on pavement as indicated on drawings.

Paint shall be in sealed containers that plainly show the designated name, formula or specification number, batch number, color, date of manufacture, manufacturer's name, formulation number, and directions, all of which shall be plainly legible at the time of use. The paint shall be homogeneous, easily stirred to smooth consistency, and shall show no hard settlement or other objectionable characteristics during a storage period of six months.

All machines, tools, and equipment used in performance of the work shall be approved and maintained in satisfactory operating condition. Hand-operated push-type machines of a type commonly used for application of paint to pavement surfaces shall be acceptable for marking small street and parking areas. Applicator machines shall be equipped with necessary paint tanks and spraying nozzles, and shall be capable of applying paint uniformly at the coverage specified. Sandblasting equipment shall be provided as required for cleaning surfaces to be painted. Handcarried spray guns shall be provided for use in areas where push-type machines cannot be used.

New pavement surfaces shall be allowed to cure for a period of not less than thirty days before application of marking materials. All surfaces to be marked shall be thoroughly cleaned before application of the paint. Dust, dirt, and other granular surface deposits shall be removed by sweeping, blowing with methods as required. Rubber deposits, surface laitance, existing paint markings and other coatings adhering to the pavement shall be completely removed with scrapers, wire brushes, sandblasting, approved chemicals, or mechanical abrasion as direction.

Paint shall be applied evenly to the pavement surface to be coated at a rate of 105 plus or minus 5 square feet per gallon. Paint shall be applied as shown on the drawings.

Paint shall be applied to clean, dry surfaces, and unless otherwise approved, only when air and pavement temperatures are above 40 degrees F and less than 95 degrees F. Paint temperature shall be maintained within these same limits. Paint shall be applied pneumatically with approved equipment at rate of coverage specified herein. The Contractor shall provide guidelines and templates as necessary to control paint application. Special precautions shall be taken in marking numbers, letters, and symbols. All edges of marking shall be sharply outlined. The maximum drying time requirements of the paint specifications will be strictly enforced, to prevent undue softening bitumen, and pickup, displacement, or discoloration by tires of traffic. If there is a deficiency in drying of the markings, painting operations shall be discontinued until cause of the slow drying is determined and corrected.

Suitable warning signs shall be placed near the beginning of the worksite and well ahead of the work for alerting approaching traffic from both directions. Small markers shall be placed along newly painted lines to control traffic and prevent damage to newly painted surfaces. Painting equipment shall be marked with large warning signs indicating that slow moving painting equipment is in operation.

Markings which must be visible at night shall be reflectorized unless ambient illumination assures adequate visibility.

SPECIFICATION: WATER DISTRIBUTION SYSTEM

The Contractor shall provide and install all materials for a potable water distribution system as shown on the drawings and in this specification. In addition, he shall obtain all permits and conduct all tests required by local, state and federal authorities and as specified on these drawings.

MATERIALS:
All materials and equipment incorporated in the Work shall be new, clean, and free of visual defects unless otherwise specified, and that all Work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All Work not conforming to these requirements may be considered defective.

Piping:

Less than 4" inches in diameter:		
Polyvinyl Chloride (PVC) 150 psi, SDR 26	ASTM D-2241	
Polyethylene pipe 160 psi, SDR 9	ASTM D-3350 & ASTM D-2239	
Polyethylene tubing 200 psi, SDR 9	ASTM D-3350 & ASTM D-2737	

Greater than 4" inches in diameter:

Polyvinyl Chloride (PVC) 150 psi	AWWA C-900 (DR 18)
Ductile Iron (Class 50)	ANSI A21.51

Joints:
Joints for PVC pipes:
Joints shall comply with ASTM D-3139
No solvent cements or toxic lubricant will be allowed.
Expansion capability will be provided.

Joints for Ductile Iron pipes:
Joints shall comply with AWWA C-153 or AWWA C-110

Gate Valves:
Valves shall comply with AWWA C-509
200 psi iron body, bronze mounted, Non-rising stems with square operating nuts and suitable valve box.

INSTALLATION:
Shall comply with all local, state and federal regulations. The Contractor shall provide proper facilities for handling and laying pipe and accessories. No pipe will be laid in unsuitable weather or in water. The Contractor will verify all field dimensions with the design Engineer (including Field Stake-Out) prior to commencing work. The Contractor shall notify the Engineer at least 24 hours prior to installing any portion of the water main distribution system. He shall also stake all service connections and provide as-built dimensions to the Engineer. Connections to the existing system shall be coordinated with the utility company. Minimal service interruption shall occur and traffic safeguards shall be taken.

The Contractor shall conduct hydrostatic pressure and leakage tests as follows:
Apply 150 psi or 150% of the working pressure whichever is greater to the test line. Duration of the pressure test shall be at least two (2) hours. After 1/2 hour, check pressure, if pressure has dropped, inspect for leaks and correct as required. Repeat tests until there are no leaks or pressure loss. Pressure must hold for two hours.

NOTE: The contractor shall notify the utility company and the Engineer at least 48 hours prior to conducting pressure and leakage tests. A 3/4" hose bibb connection will be required for gauge connection.

The Contractor shall sterilize the lines by chlorinating at 40 to 50 ppm, injecting at a corporation stop and operating all valves and accessories. Flush system. Subsequent tests on replacement water shall show a chemical and bacterial count equal to the supply main. Samples shall be taken by and tested at the expense of the contractor, and results shall be acceptable to local, state and federal agencies of interest.

NOTES:
All water piping and fittings used shall be National Sanitation Foundation (N.S.F.) approved for potable water.

A minimum separation of 10 ft. horizontal, outside to outside and 18 inches vertical is required between all water lines and the sanitary sewer system.

When trench excavation depth exceeds five feet, the Contractor shall provide trench protection (shields, sloping, shoring, etc.) and shall comply with OSHA Standard 29 CFR, Section 1926.650 Subpart P.

In accordance with rules of the Florida Department of Environmental Protection (DEP), Chapter 62-555, the Engineer of record will be responsible for observation of construction of the Potable Water System. The Engineer SHALL be notified at commencement and completion of construction. To assure compliance with plans and specifications, said Engineer will report to DEP upon completion of construction and cleaning and disinfecting described above before the system can be placed in service.

All PVC potable water lines and services will be marked with No. 14 copper-insulated tracer wire to enable location with a Ferrous Metal Detector. The tracer wire will be placed 12 inches above and throughout the length of all such pipe.

FIRE HYDRANTS:

All fire hydrants shall be 6 inch, three way hydrants with two 2-1/2 inch hose nozzles and one 4-1/2 inch pumper nozzle, designed for 150 lbs working pressure or 300 lbs hydrostatic pressure and shall conform to the latest specifications of the AWWA. All working parts shall be bronze. All hose threads shall be National Standard Threads. Hydrants shall have a mechanical joint end inlet. Hydrants shall be Traffic Breakaway Model. The hydrant main valve shall be a compression type that closes with the water pressure. Hydrants shall have not less than a 5-1/4 inch valve opening. All hydrants shall be equipped with automatic self-venting reservoirs that lubricate the stem threads and oil bearing surfaces each time the hydrant is operated. Hydrants shall be painted one coat of red iron oxide, zinc oxide primer conforming to Steel Structures Painting Council SSPC-paint 25 and two finish coats of silicone alkyl paint conforming to Steel Structures Painting Council SSPC-paint 21. Fire hydrants shall be painted in accordance with NFPA 291, Recommended Practice For Fire Flow Testing and Marking of Hydrants.

SPECIFICATION: SANITARY SEWER SYSTEM

The Contractor shall provide and install all gravity sewer material shown on the drawings and in this specification. In addition, he shall obtain all permits and conduct all tests required by local, state and federal authorities and as specified on these drawings.

MATERIALS:
All materials and equipment incorporated in the Work shall be new, clean, and free of visual defects unless otherwise specified, and that all Work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All Work not conforming to these requirements may be considered defective.

Piping:

PVC Gravity Sewer	ASTM D-3034, SDR-35
Ductile Iron Pipe (D.I.P.)	ANSI A21.51
PVC Force Mains (160 psi)	ASTM D-1784 and D 2241

Joints: PVC, Rubber Ring
D.I.P. Joints, Rubber Gasket
ASTM D-1869
ANSI A21.11

NOTE: ALL JOINTS TO BE BELL AND SPIGOT TYPE.
Concrete: Poured or Pre-cast
4000 psi at 28 days;

INSTALLATION:
Shall comply with all local, state and federal regulations. The Contractor shall provide proper facilities for handling and laying pipe and accessories. Trenches shall be properly prepared; pipe shall be supported over its full length and bell holes hand dug as required. No pipe will be laid in unsuitable weather or in water. The Contractor will verify all field dimensions and report all discrepancies (including field stake-out) prior to commencing work. The Contractor shall notify the Engineer at least 24 hours prior to installing any portion of the sanitary sewer system. He shall also stake all service connections and provide as-built dimensions to the Engineer. Manholes, cleanouts and the like shall be located, built and sized as shown on these drawings. Connections with existing sewer systems shall be coordinated by the Contractor with the utility company.

A minimum separation of 10 ft. horizontal measured outside to outside and 18 inches vertical is required between sanitary sewer lines and all water lines.

When trench excavation depth exceeds five feet, the Contractor shall provide trench protection (shields, sloping, shoring, etc.) and shall comply with OSHA Standard 29 CFR, Section 1926.650 Subpart P.

In accordance with rules of the Florida Department of Environmental Protection (DEP), Chapter 62-604, the Engineer of record will be responsible for observation of construction of the Sanitary Sewer System. The Engineer SHALL be notified at commencement and completion of construction. To assure compliance with plans and specifications, said Engineer will report to DEP upon completion of construction before the system can be placed in service.

The Contractor shall coordinate all tests with the utility company and the Engineer. All lines, fittings and manholes shall be clean and dry before conducting tests. Tests and subsequent corrections shall be at the expense of the Contractor.

GRAVITY SEWERS:
Leakage tests by exfiltration and/or infiltration will be made on all pipe. The Engineer shall have the option determining which test shall be employed. Generally, if the groundwater table is below the bottom of the pipe, an exfiltration test shall be used. Duration of test shall be not less than two (2) hours. Visible leaks encountered shall be corrected regardless of leakage test results. Leakage as measured by either the infiltration or exfiltration test shall not exceed 0.157 gallons per inch diameter per 100 feet of pipe per hour. When leakage exceeds the maximum amount specified, satisfactory correction shall be made and retesting accomplished.

Deflection testing shall be done on all flexible pipe at the direction of the Engineer. Testing shall be done using a mandrel having a diameter equal to 95 percent of the inside diameter of the pipe. When a deflection device is used in lieu of the mandrel, such device shall be approved by the Engineer prior to use. No pipe deflection shall exceed 5 percent.

FORCE MAINS:
The Contractor shall conduct hydrostatic pressure and leakage tests as follows:
Apply 100 psi or 150% of the working pressure, whichever is greater, to the test line. Duration of the pressure test shall be at least two (2) hours. After 1/2 hour, check pressure, if pressure has dropped, inspect for leaks and correct as required. Repeat tests until there are no leaks or pressure loss. Pressure must hold for two hours.

NOTE: The contractor shall notify the utility company and the Engineer at least 24 hours prior to conducting pressure and leakage tests.

Force mains shall have thrust blocks designed for 100 PSI test pressure. Force Mains shall be colored other than white to distinguish from water lines. Force Mains in the right-of-way shall have 30 inches (minimum) cover over the crown.

All sanitary sewer force mains will be marked with No. 14 copper insulated tracer wire to enable location with a Ferrous Metal Detector. The tracer wire will be placed 12 inches above and throughout the length of all such pipe.

MANHOLES:
Shape: All manholes will be eccentric or as specified on the drawings.

Setting Manhole Castings: The frame of the casting shall be set in a full mortar bed composed of one part Portland Cement to two parts of fine aggregate.

Concrete: The minimum compressive strength required at twenty-eight days is 4,000 pounds per square inch. The minimum amount of water shall be used to produce a workable mix and shall not exceed six (6) U.S. Gallons per sack of cement. Concrete shall conform to ASTM Specification ASTM C-94.

Pre-cast Reinforced Concrete Manhole Sections: Pre-cast reinforced concrete manhole sections shall conform to ASTM Specification C-478. All joints for pre-cast sections shall be approved by the Engineer.

Castings: Cast iron frames and covers shall conform to the drawings in all essentials of design. All castings shall be made of clean, even grain, tough gray cast iron. The quality of iron in the castings shall conform to the current ASTM Specification A-48 for Class 20 Gray Iron Castings. The weight of castings shall be as shown in the plans. Castings shall be smooth, true to pattern, and free from projections, sand holes, or defects. A raised word "SEWER" shall be cast on the upper non-skid surface of all manhole covers. The portion of the frame and cover which forms the cover seat shall be machined so that no rocking of the cover is possible. The castings shall be coated with coal tar pitch varnish. On roadways the frame and cover shall be set flush with and in the plane of the surface. In other locations they shall be set to grades determined by the Engineer. A shop drawing of the manhole frame and cover must be approved by the Engineer for all covers and frames furnished on the project.

Water-Proofing: Both concrete and pre-cast sections below grade shall be painted on the outside with either two coats of bitumastic paint or a heavy layer of emulsified asphalt to water-proof completely. Manholes shall be inspected for water tightness prior to being placed in service. All incoming and outgoing sewer lines shall be plugged and the manhole filled with water to a level to create a minimum positive head of two feet or above the highest section joint. If the water level drop exceeds 1/8" per vertical foot of manhole depth in 5 minutes, the manhole shall have failed the test.

GENERAL:
Grout all riser joints and entry pipes.
Provide neat cement seals for pre-cast units.
Minimum radius shall be 20 inches.
Invert grouting shall be uniform and smooth-sloped to center line of pipe.

NOTE: Roof drains, foundation drains and all other clean water connections to the sanitary sewer system are prohibited.

SPECIFICATION: STORM SEWER SYSTEM

The Contractor shall provide and install all storm sewer material shown on the drawings and in this specification. In addition, he shall obtain all permits and conduct all tests required by local, state and federal authorities and as specified on these drawings.

MATERIALS:
All materials and equipment incorporated in the Work shall be new, clean, and free of visual defects unless otherwise specified, and that all Work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All Work not conforming to these requirements may be considered defective.

Corrugated Polyethylene Pipe:
Shall comply with section 948 of the latest edition "Florida Department of Transportation Specifications for Road and Bridge Construction" unless modified herein. Pipes 12 inches to 24 inches in diameter shall comply with ASTM F-405 and ASTM F-667. Joints shall be by means of dimpled band. If used outside of dry wells, joints shall be wrapped in filtercloth 2 feet in width and with 2 feet of overlap on the diameter. This pipe, in the perforated form, shall be used inside dry wells. It may be used outside dry wells only when used with a filter sock. Perforations shall be 1/4 inch diameter and spaced 10 inches on center in the valley of the corrugations.

Polyvinyl-Chloride Pipe:
Shall comply with section 948 of the latest edition "Florida Department of Transportation Specifications for Road and Bridge Construction" unless modified herein. Polyvinyl-Chloride Pipe shall meet the requirements of ASTM D 3034, SDR-35, or ASTM F 949, profile wall without perforations. Polyvinyl-Chloride Pipe for use as underdrain shall conform to the requirements of ASTM F 758 or ASTM F 949. Also, PVC underdrain manufactured from PVC pipe meeting ASTM D 3033 or ASTM D 3034, perforated in accordance with the perforation requirements given in AASHTO M 36, or AASHTO M 196 will be permitted.

Reinforced Concrete Pipe:
Shall comply with requirements of ASTM C 76, Class III, unless otherwise indicated on the Drawings, and shall be installed with rubber gasketed joints complying with ASTM C 443. Install rubber gaskets in strict accordance with pipe manufacturer's recommendations.

Manholes:
Precast reinforced concrete manhole sections shall conform to ASTM Specification C-478. Construct manhole sections as required by Drawings to size, shape, and depth indicated, but never less than 4'-0" inside diameter. All joints for precast sections shall be approved by the engineer.

Inlets/Catch Basins:
Precast reinforced concrete Inlets/Catch Basins sections shall conform to ASTM Specification C-478. Construct Inlets/Catch Basins of precast concrete construction as required by Drawings to size, shape, and depth indicated.

Main and Lateral Pipes:
Neatly cut off main and lateral pipes flush with inside of manhole or inlet where they enter structure walls. Dress all irregularities and rough edges with non-shrinking grout (inside and outside).

Where pipes enter or exit manholes, a "Kor-N-Seal" molded neoprene boot with stainless steel internal and external bands as manufactured by the National Pollution Control Systems, Inc., Nashua, New Hampshire, or a polyurethane joint with a short transition joint as manufactured by Moorform Corporation, Centralia, Illinois, or an approved equal (or superior) connection shall be provided.

Cast Iron Frames, covers, and Grates:
After completion of manhole inlet, set cast iron frame in full mortar bed after adjusting to required elevation. Cast iron frames and covers shall conform to the drawings in all essentials of design. All castings shall be made of clean, even grain, tough gray cast iron. The quality of iron in the castings shall conform to the current ASTM Specification A-48 for Class 20 Gray Iron Castings. The weight of castings shall be as shown in the plans. Castings shall be smooth, true to pattern, and free from projections, sand holes, or defects. A raised word "STORM SEWER" shall be cast on the upper non-skid surface of all manhole covers. The portion of the frame and cover which forms the cover seat shall be machined so that no rocking of the cover is possible. The castings shall be coated with coal tar pitch varnish. On roadways the frame and cover shall be set flush with and in the plane of the surface. In other locations they shall be set to grades determined by the engineer. The frame and cover shall be heavy duty traffic bearing.

Plastic Filter Fabric:
Plastic Filter Fabric shall be the non-woven type and shall comply with sections 514 and 985 of the latest edition "Florida Department of Transportation Specifications for Road and Bridge Construction" unless modified herein.

Concrete:
Concrete shall comply with sections 345 of the latest edition "Florida Department of Transportation Specifications for Road and Bridge Construction" unless modified herein. Minimum compressive strength at 28 days shall be 4,000 psi.

DETENTION AREAS AND GRASSED SWALES:
Swales must be landscaped with seeding, sodding, or sprigging, which does not inhibit the infiltration rate of the soil. Engineer requires 48 hours notice prior to landscaping of infiltration areas to make appropriate inspections.

The system will require periodic maintenance for continued proper operation. This will include, as a minimum: A) removal of silt debris from surface infiltration areas and catch basins, and B) maintenance of vegetative cover in surface infiltration areas.

STORMWATER DRYWELLS:
Drywells shall be constructed to the dimensions as detailed in the plans. The washed granular material shall have a void ratio of not less than 0.4 and the gradation shall conform to section 901 of the latest edition "Florida Department of Transportation Specifications for Road and Bridge Construction". The dry well shall be completely wrapped in woven (as opposed to spun) filter cloth with a minimum 2 feet of overlap at field joints. The dry well shall contain a perforated pipes as detailed in the plans.

INSTALLATION:
The Contractor shall comply with all local, state and federal regulations. The Contractor shall provide proper facilities for handling and laying pipe and accessories. Trenches shall be properly prepared; pipe shall be supported over its full length and bell holes hand dug as required. No pipe will be laid in unsuitable weather or in water. The Contractor will verify all field dimensions and report all discrepancies (including field stake-out) prior to commencing work. The Contractor shall notify the Engineer at least 24 hours prior to installing any portion of the storm sewer system. He shall also stake all service connections and provide as-built dimensions to the Engineer. Manholes, cleanouts and the like shall be located, built and sized as shown on these drawings. Connections with existing storm sewer systems shall be coordinated by the Contractor with the Utility Authority. Adequate traffic control shall be provided.

A minimum separation of 10 ft. horizontal measured outside to outside and 18 inches vertical is required between storm sewer lines and all water lines.

When trench excavation depth exceeds five feet, the Contractor shall provide trench protection (shields, sloping, shoring, etc.) and shall comply with OSHA Standard 29 CFR, Section 1926.650 Subpart P.

In accordance with rules of the Florida Department of Environmental Protection (DEP), Chapter 62-25, the Engineer of record will be responsible for observation of construction of the Storm Sewer System. The Engineer SHALL be notified at commencement and completion of construction. To assure compliance with plans and specifications, said Engineer will report to DEP upon completion of construction before the system can be placed in service.

TESTS:
The Contractor shall coordinate all Tests and inspections with the Utility Authority and the Engineer. All lines, fittings and manholes shall be clean and dry before the Inspector is summoned. Tests and subsequent corrections shall be at the expense of the Contractor.

Non-Perforated Storm Sewers:
Leakage tests by exfiltration and/or infiltration will be made on all pipe as deemed by the Engineer. The Engineer shall be the option determining which test shall be employed. Generally, if the groundwater table is below the bottom of the pipe, an exfiltration test shall be used. Duration of test shall be not less than two (2) hours. Visible leaks encountered shall be corrected regardless of leakage test results. Leakage as measured by either the infiltration or exfiltration test shall not exceed 0.2 gallons per inch diameter per 100 feet of pipe per hour. When leakage exceeds the maximum amount specified, satisfactory correction shall be made and retesting accomplished.

Deflection testing shall be done on all flexible pipe at the direction of the Engineer. Testing shall be done using a mandrel having a diameter equal to 95 percent of the inside diameter of the pipe. When a deflection device is used in lieu of the mandrel, such device shall be approved by the Engineer prior to use. No pipe deflection shall exceed 5 percent.

EROSION PROTECTION:
New and existing drainage structures shall be protected from soil erosion sedimentation by placing baled hay around structures.

Staked baled hay and silt fence barriers shall be installed downhill from any earthwork activity, and in all areas subject to soil erosion, prior to start of construction.

Soil erosion sedimentation shall be controlled during all phases of construction.

ALL SOIL EROSION SEDIMENTATION SHALL BE RETAINED ON SITE.

CHOCTAW ENGINEERING, INC.
 ENGINEERING • ENVIRONMENTAL • SURVEYING
 PHONE: 850-862-6611
 FAX: 850-863-8059
 112 TRUXTON AVENUE
 FORT WALTON BEACH, FLORIDA 32547
 EMAIL: ce@choctaw-eng.com
 CERTIFICATE OF AUTHORIZATION No. 1582

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Revisions:
FWB MUSEUM ADDITION SPECIFICATIONS (2 OF 2)
 Not valid unless bearing Engineer's embossed seal.
 MARK C. SNIER, P.E.
 FL. REG. NO. 48831

Job No.: 2021-153
Date: 18 NOV 2022
Flid. Vol.: N/A
Scale: N/A
Disk No.: 21153-MISC
Designed: MCS
Drawn: CRG
Checked: MCS
Sheet

DOOR SCHEDULE

DOOR#	DOOR			FRAME			FIRE RATING	REMARKS	
	SIZE	TYPE	MATL	HDW	TYPE	MATL			HEAD
100A	PR 3'-0" x 7'-0" x 1 3/4"	ALSF	AL			AL		N/A	LMIR
100B	PR 3'-0" x 7'-0" x 1 3/4"	ALSF	AL			AL		N/A	LMIR
100C	PR 3'-0" x 7'-0" x 1 3/4"	F	WD			GS		90 MIN.	DOUBLE EGRESS
101	3'-0" x 7'-0" x 1 3/4"	F	GHM			GS		N/A	LMIR
103	3'-0" x 7'-0" x 1 3/4"	F	WD			GS		N/A	
104	3'-0" x 7'-0" x 1 3/4"	F	WD			GS		N/A	
105	3'-0" x 7'-0" x 1 3/4"	F	WD			GS		N/A	
106	3'-0" x 7'-0" x 1 3/4"	F	WD			GS		N/A	
107	3'-0" x 7'-0" x 1 3/4"	F	WD			GS		N/A	
108A	3'-0" x 7'-0" x 1 3/4"	F	WD			GS		45MIN.	
108B	3'-0" x 7'-0" x 1 3/4"	F	GS			GS		N/A	LMIR
109	PR 3'-0" x 7'-0" x 1 3/4"	ALSF	AL			AL		N/A	
200	3'-0" x 7'-0" x 1 3/4"	F	WD			GS			
203	3'-0" x 7'-0" x 1 3/4"	F	WD			GS			
204	3'-0" x 7'-0" x 1 3/4"	F	WD			GS			
205	3'-0" x 7'-0" x 1 3/4"	F	WD			GS			
207	PR 2'-6" x 7'-0" x 1 3/4"	F	WD			GS			
208	3'-0" x 7'-0" x 1 3/4"	F	WD			GS			
209	PR 3'-0" x 7'-0" x 1 3/4"	F	WD			GS			

FINISH SCHEDULE

ROOM#	ROOM NAME	FLOOR	BASE	WALLS				CLG. FIN.	CLG. HT.	REMARKS
				MATL	NORTH	EAST	SOUTH			
100	MUSEUM	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
101	CORRIDOR	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
102	ELEVATOR	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
103	ELECTRICAL	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
104	MECHANICAL	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
105	OFFICE	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
106	MEN	CT	CT	GYP1	P1	P1	P1	P1	P1	11'-0"
107	WOMEN	CT	CT	GYP1	P1	P1	P1	P1	P1	11'-0"
108	STAIR	VCT	WD	GYP1	P1	P1	P1	P1	(09.01)	11'-0"
109	CONFERENCE	C / T	WD	GYP1	P1	P1	P1	P1	SAP	11'-0"
200	STAIR	(05.01)	WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
201	CORRIDOR		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
202	ELEVATOR		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
203	TOILET		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
204	OFFICE		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
205	CLOSET		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
206	OFFICE		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
207	MECHANICAL		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
208	STORAGE		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"
209	MECHANICAL		WD	GYP1	P1	P1	P1	P1	SAP	8'-0"

KEYNOTES: SHEET A1.10 ONLY

05 METAL:
 05.01 PRE-ENGINEERED STEEL STAIR SYSTEM, WITH MID AND TOP LANDINGS. TREADS, RISERS AND LANDINGS TO BE DIAMOND PLATE. HANDRAILS AT 36" ABOVE NOSING, GUARDRAIL AT 42" 36" ABOVE NOSING. 3/4" SQ. PICKETS AT 4" O.C., CENTER LINE OF STRUCTURAL COLUMN.

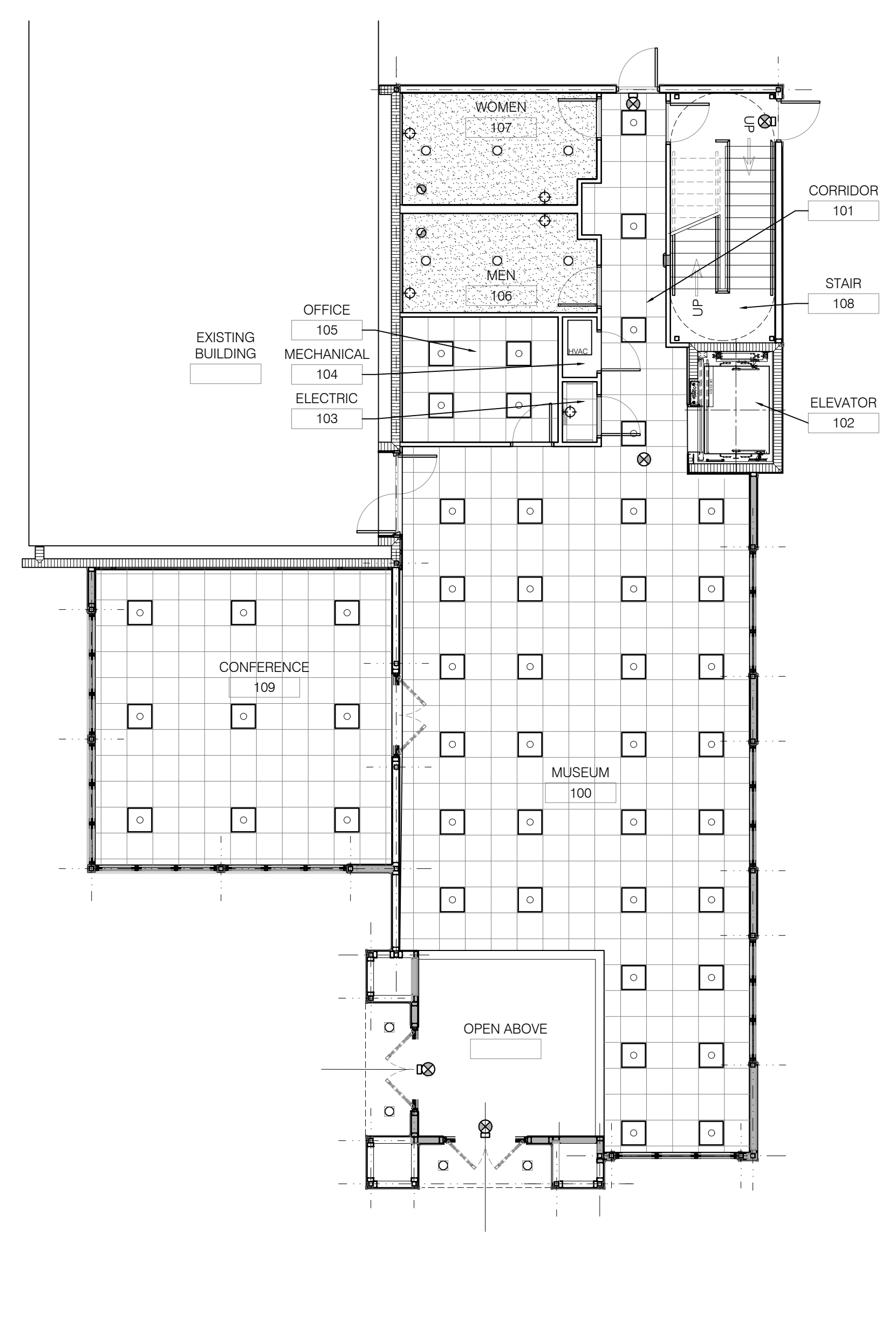
09 FINISHES:
 09.01 PAINT ALL EXPOSED SURFACES.

10 SPECIALTIES:
 10.01 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 5B.C EXTINGUISHER.

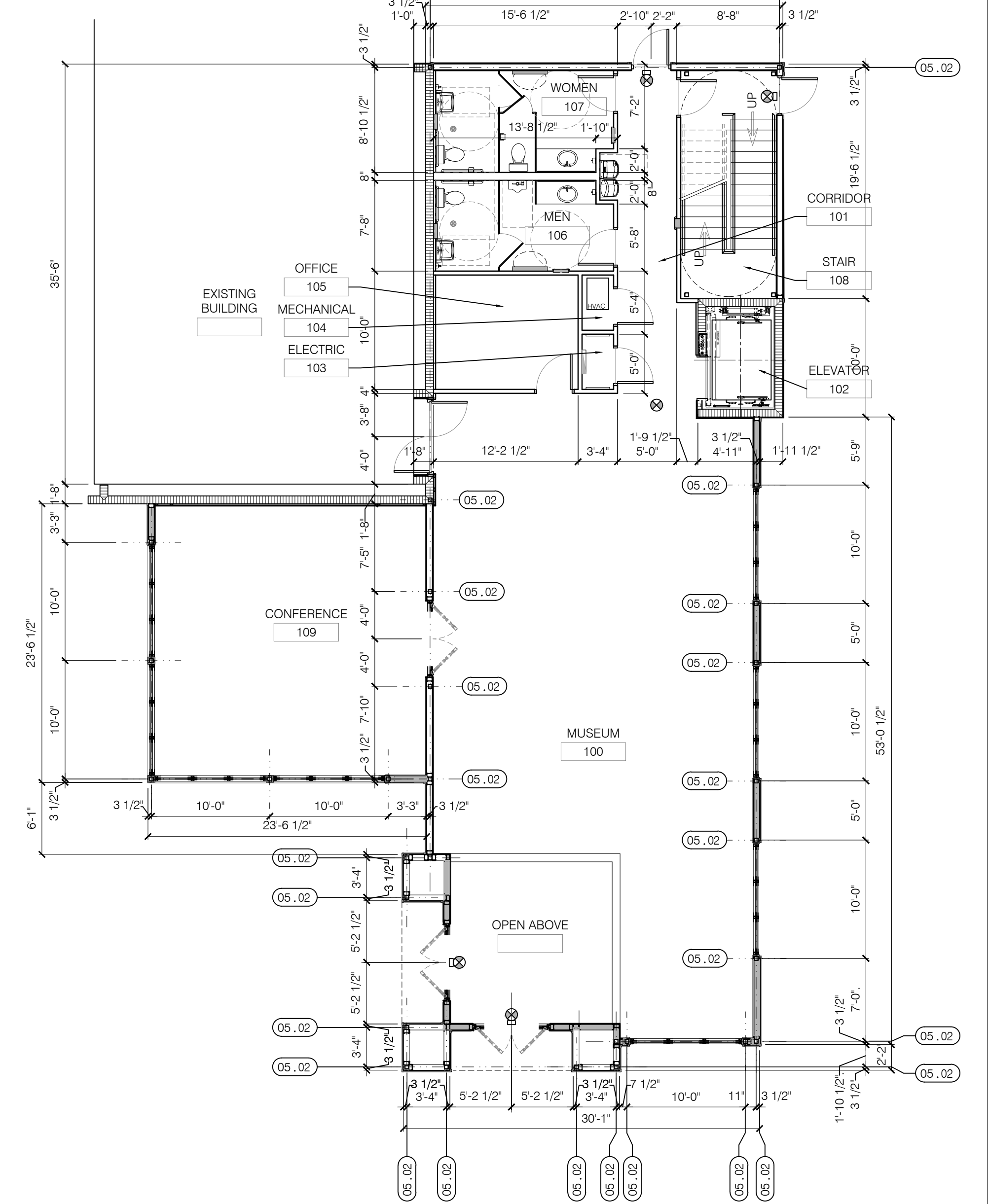
LIFE SAFETY NOTES: SHEET A1.10 ONLY
 01 EMERGENCY LIGHT FIXTURES ARE SHOWN ON ELECTRICAL DRAWINGS.

ELECTRICAL SYMBOLS LEGEND:

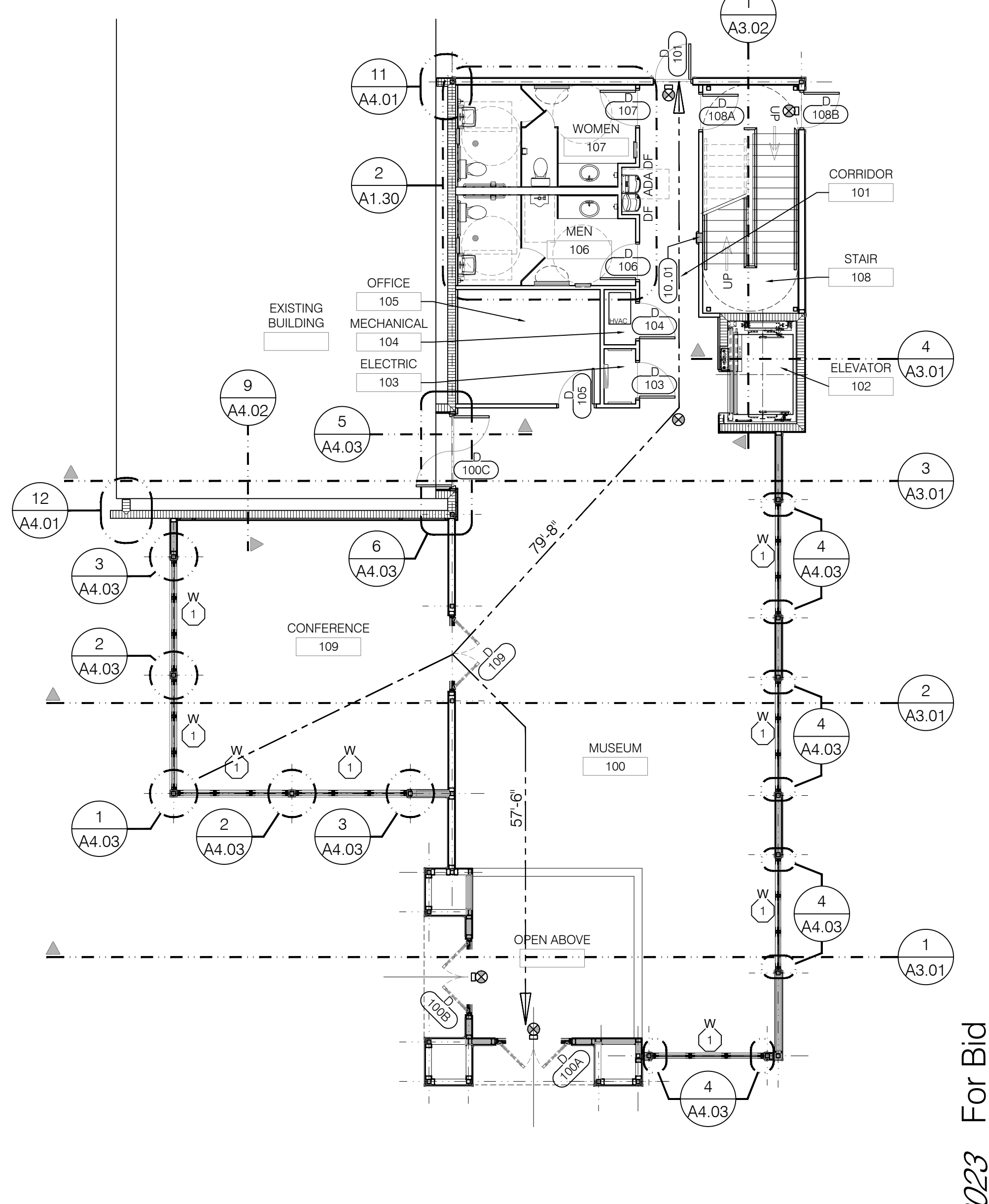
- ☎ TELEPHONE / DATA JACK
- ☐ 120V JUNCTION BOX, VOLTAGE AS NOTED
- 📺 TV JACK
- ⊕ LED LIGHT FIXTURE, WALL MOUNTED
- LED LIGHT FIXTURE, RECESSED.
- ◻ LED, 2 x 2 LIGHT FIXTURE, CEILING GRID MOUNTED.
- ◻ LED 2 x 2 LIGHT FIXTURE, CEILING GRID MOUNTED, EMERGENCY, BACKUP POWER.
- ⊗ EXIT LIGHT, W/ BACKUP POWER, CEILING MOUNTED.
- ⊗ EXIT LIGHT, W/ BACKUP POWER, WALL MOUNTED.
- 🌀 EXHAUST FAN, CEILING MOUNTED, DUCTED TO EXTERIOR.



1 1st FLOOR: REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"



2 1st FLOOR PLAN: DIMENSIONS
 SCALE: 1/8" = 1'-0"



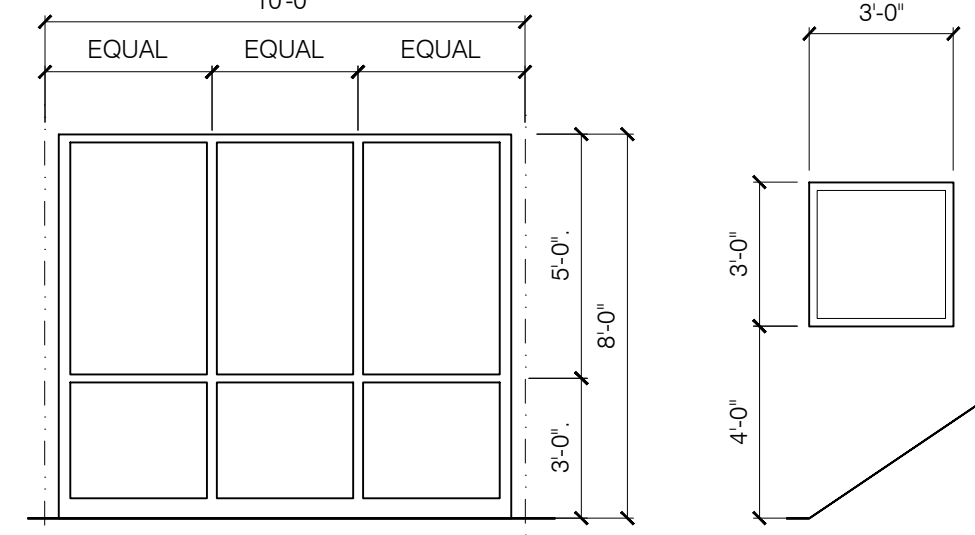
1 1st FLOOR PLAN: ANNOTATION WITH LIFE SAFETY NOTES
 SCALE: 1/8" = 1'-0"

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DATE:	DATE:
DRAWN BY: md	PROJECT NO: 2119
PROJECT NO: 2119	REVISIONS:
REVISIONS:	

WINDOW SCHEDULE

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



W1
LARGE MISSILE IMPACT RATED
ALUMINUM STOREFRONT
GLAZING SYSTEM

W2
LARGE MISSILE IMPACT RATED
ALUMINUM STOREFRONT
GLAZING SYSTEM

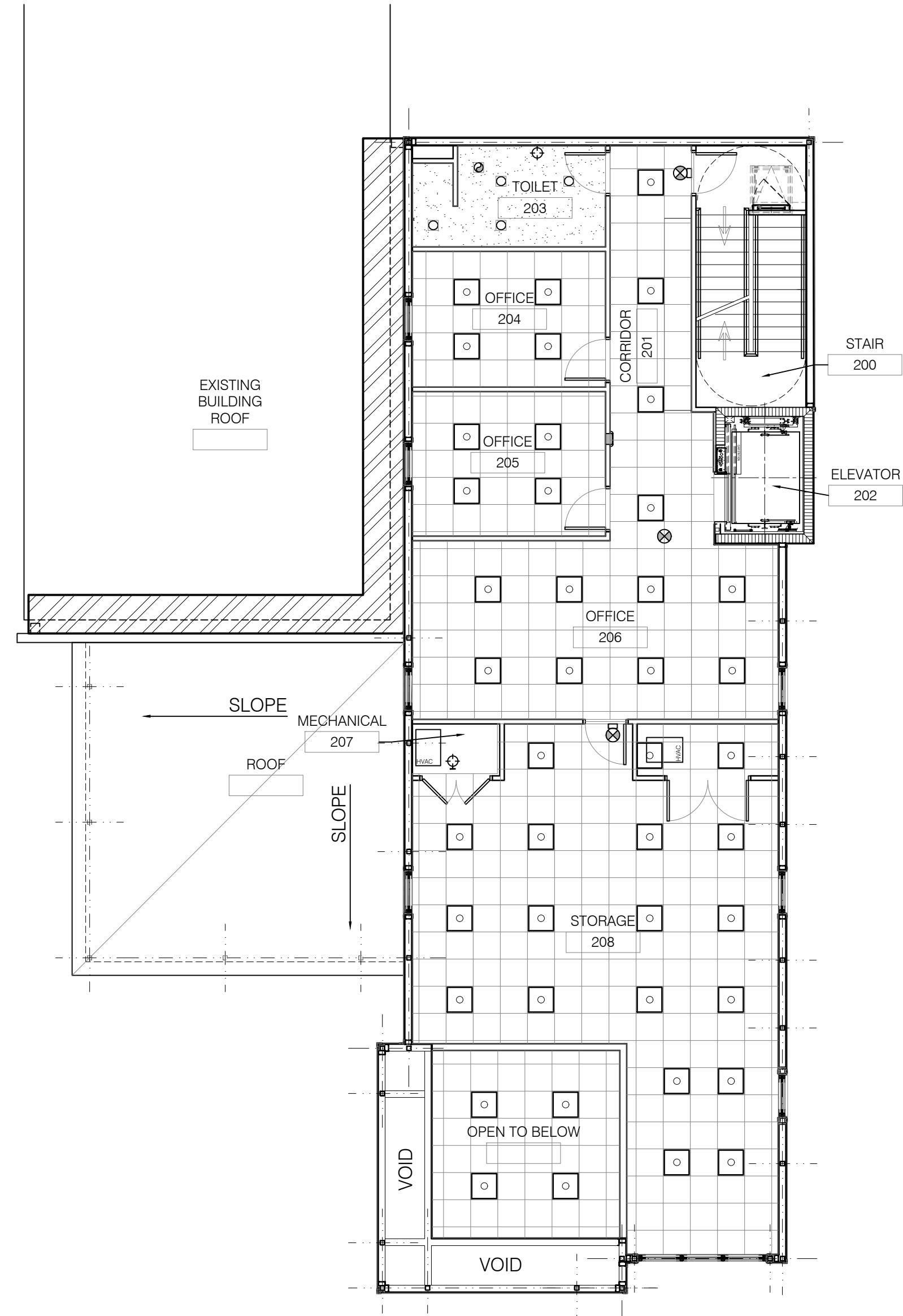
LIFE SAFETY NOTES: SHEET A1.20 ONLY
01 EMERGENCY LIGHT FIXTURES ARE SHOWN ON ELECTRICAL DRAWINGS.

KEYNOTES: SHEET A1.20 ONLY

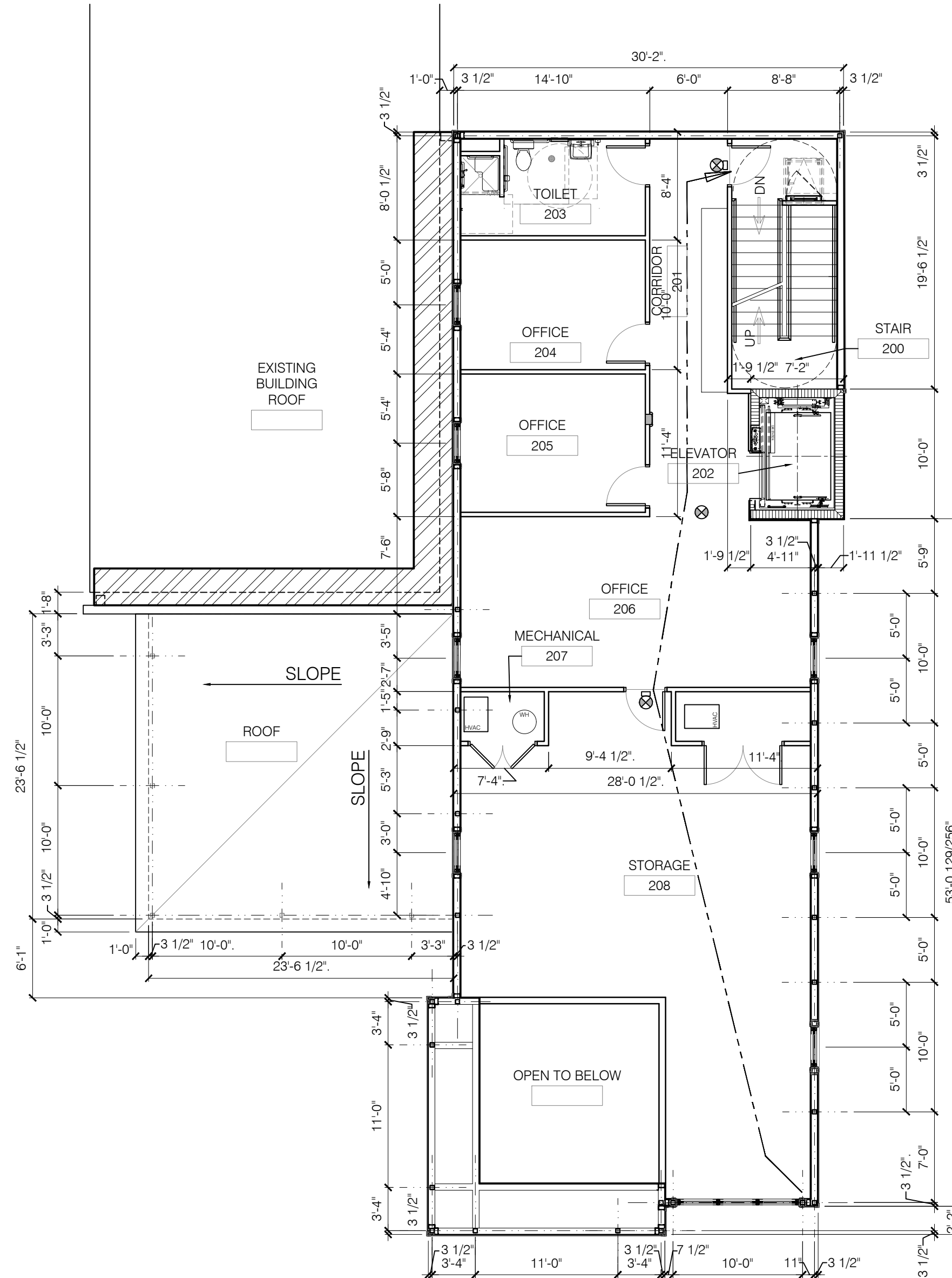
- 05 METAL:
- 05.01 METAL GUTTER.
- 07 THERMAL & MOISTURE PROTECTION:
- 07.01 ROOF ACCESS HATCH.
- 07.02 TPO MEMBRANE FLASHING / COVER.
- 10 SPECIALTIES:
- 10.01 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 5B.C EXTINGUISHER.

ELECTRICAL SYMBOLS LEGEND:

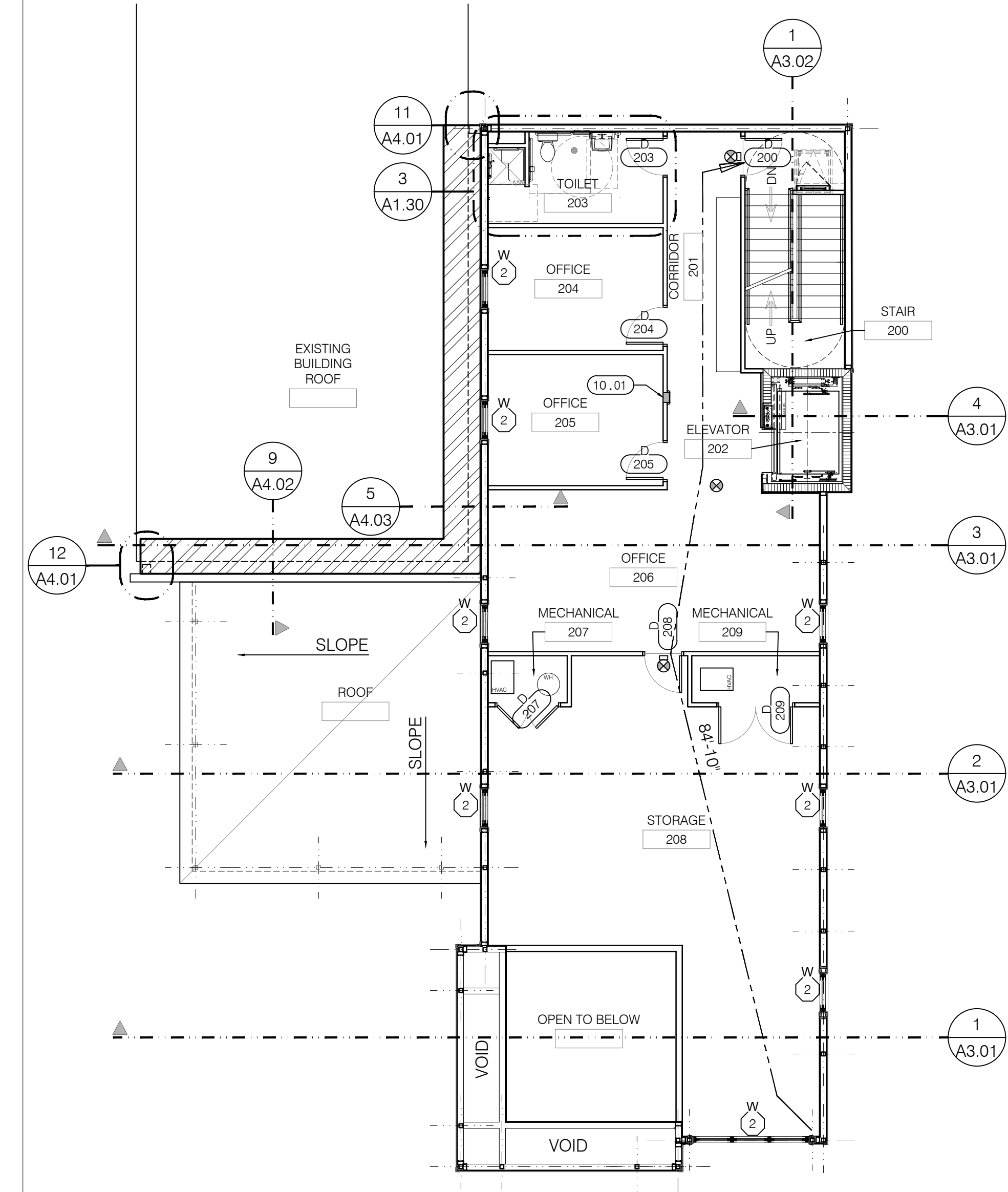
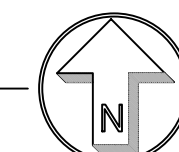
- ⊙ TELEPHONE / DATA JACK
- ⊞ JUNCTION BOX, VOLTAGE AS NOTED
- Ⓜ TV JACK
- Ⓛ LED LIGHT FIXTURE, WALL MOUNTED
- LED LIGHT FIXTURE, RECESSED.
- LED, 2 x 2 LIGHT FIXTURE, CEILING GRID MOUNTED.
- ◻ LED 2 x 2 LIGHT FIXTURE, CEILING GRID MOUNTED, EMERGENCY, BACKUP POWER.
- ⊗ EXIT LIGHT, W/ BACKUP POWER, CEILING MOUNTED.
- ⊘ EXIT LIGHT, W/ BACKUP POWER, WALL MOUNTED.
- Ⓜ EXHAUST FAN, CEILING MOUNTED, DUCTED TO EXTERIOR.



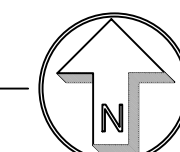
3 2nd FLOOR: REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



2 2nd FLOOR PLAN: DIMENSION
SCALE: 1/8" = 1'-0"



1 2nd FLOOR PLAN: ANNOTATION
WITH LIFE SAFETY NOTES
SCALE: 1/8" = 1'-0"



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2nd FLOOR PLANS:
WITH LIFE SAFETY
NOTES

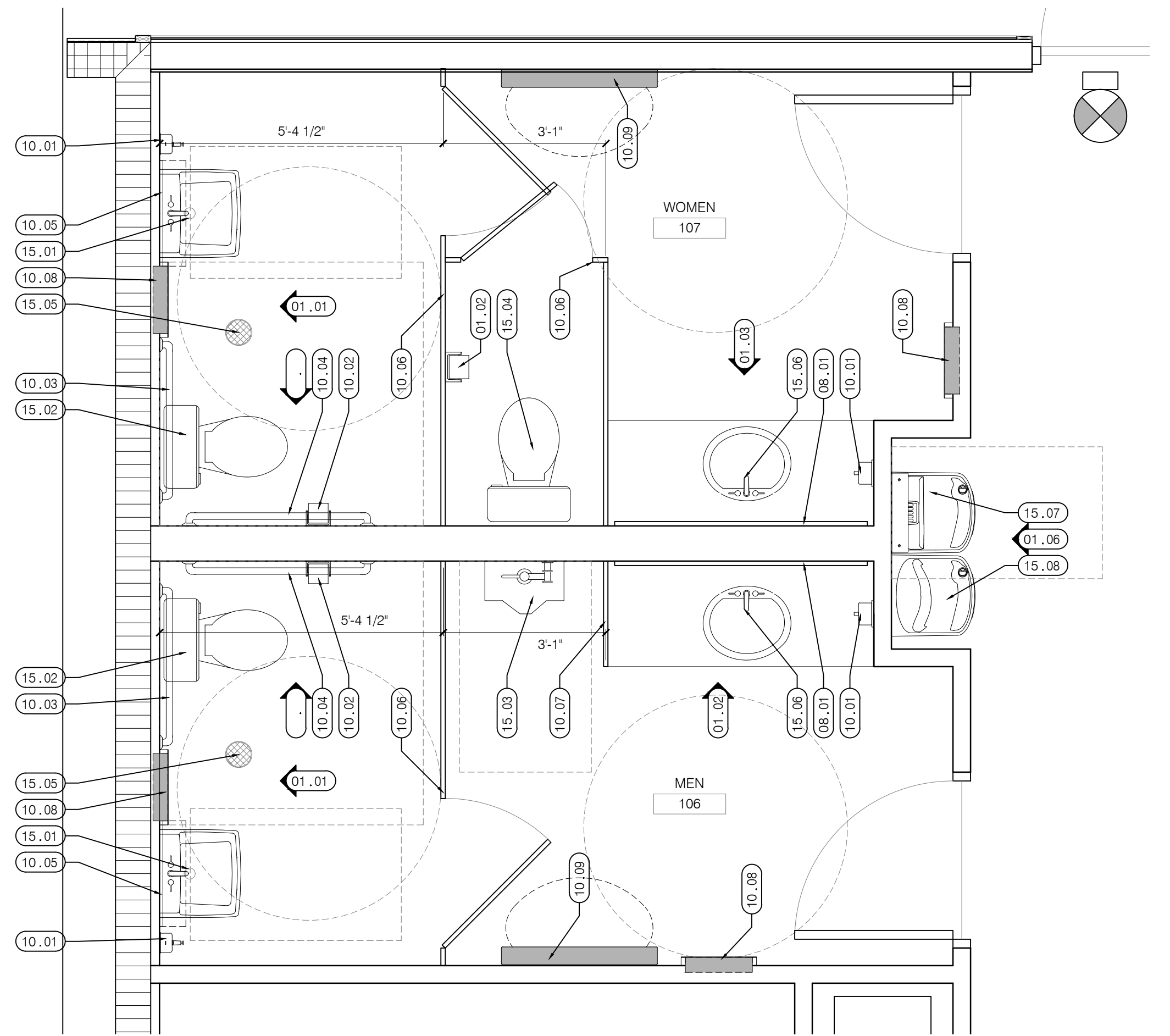
A1.20

**FORT WALTON BEACH
MUSEUM ADDITION**

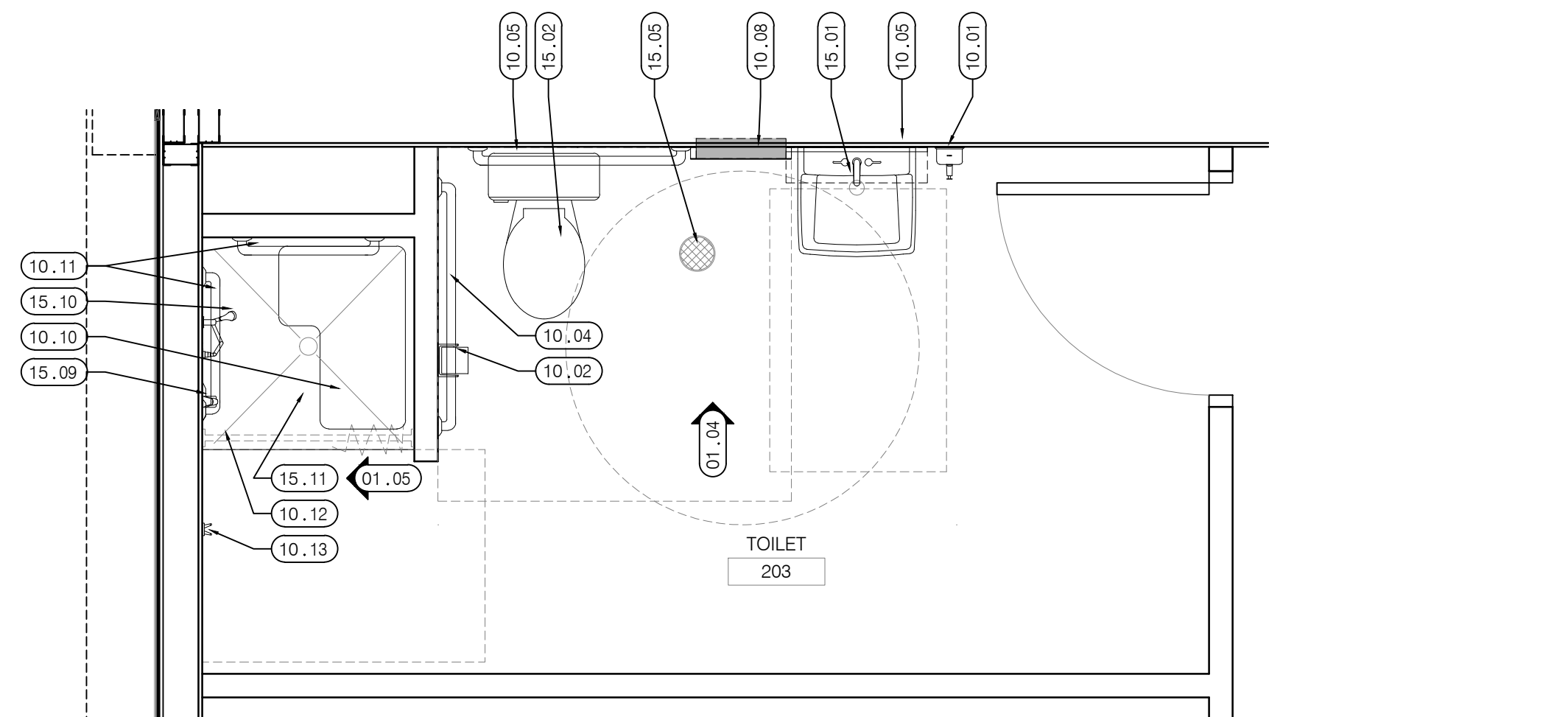
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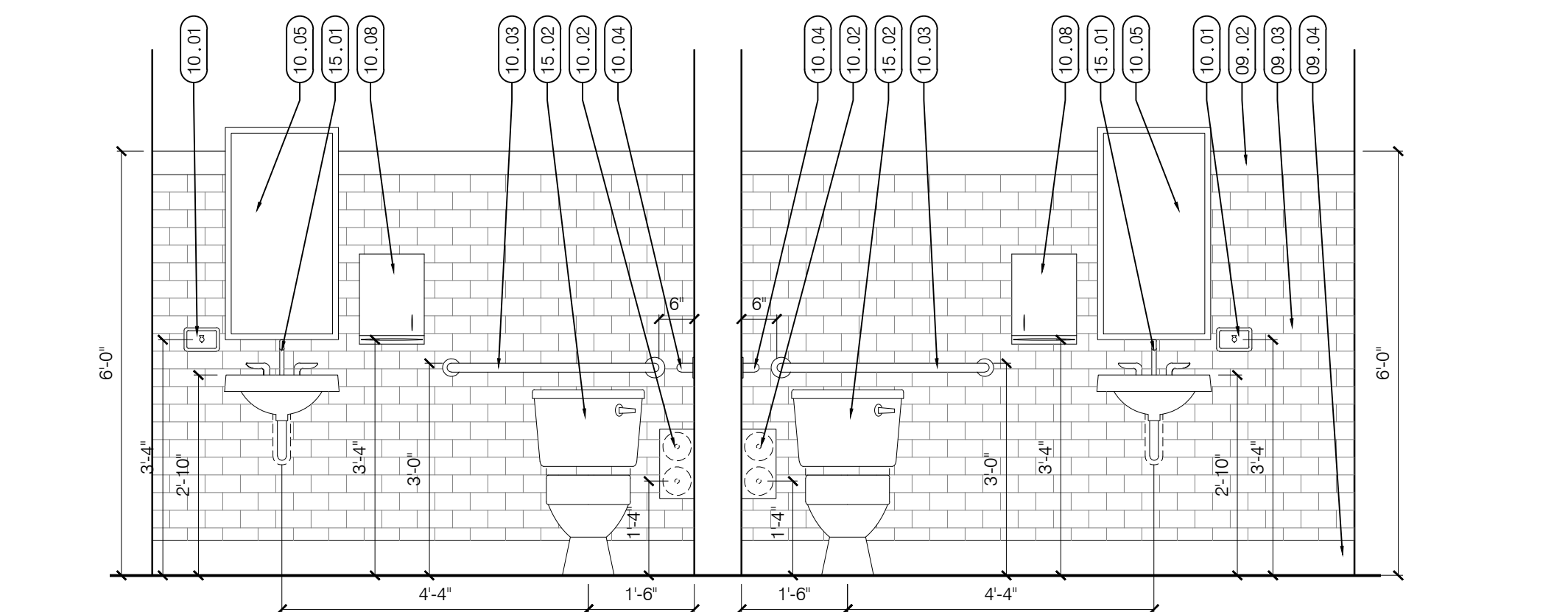
DATE: _____ DRAWN BY: md PROJECT NO: 2119 REVISIONS: _____ THESE PLANS AND THE IDEAS AND CONCEPTS CONTAINED HEREIN INCLUDING DIGITAL INFORMATION ARE THE PROPERTY OF JDF ARCHITECTURE AND ARE NOT TO BE REPRODUCED, COPIED, MODIFIED, OR CHANGED IN ANY FORM OR MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION AND CONSENT OF JDF ARCHITECTURE. COPYRIGHT © 2021



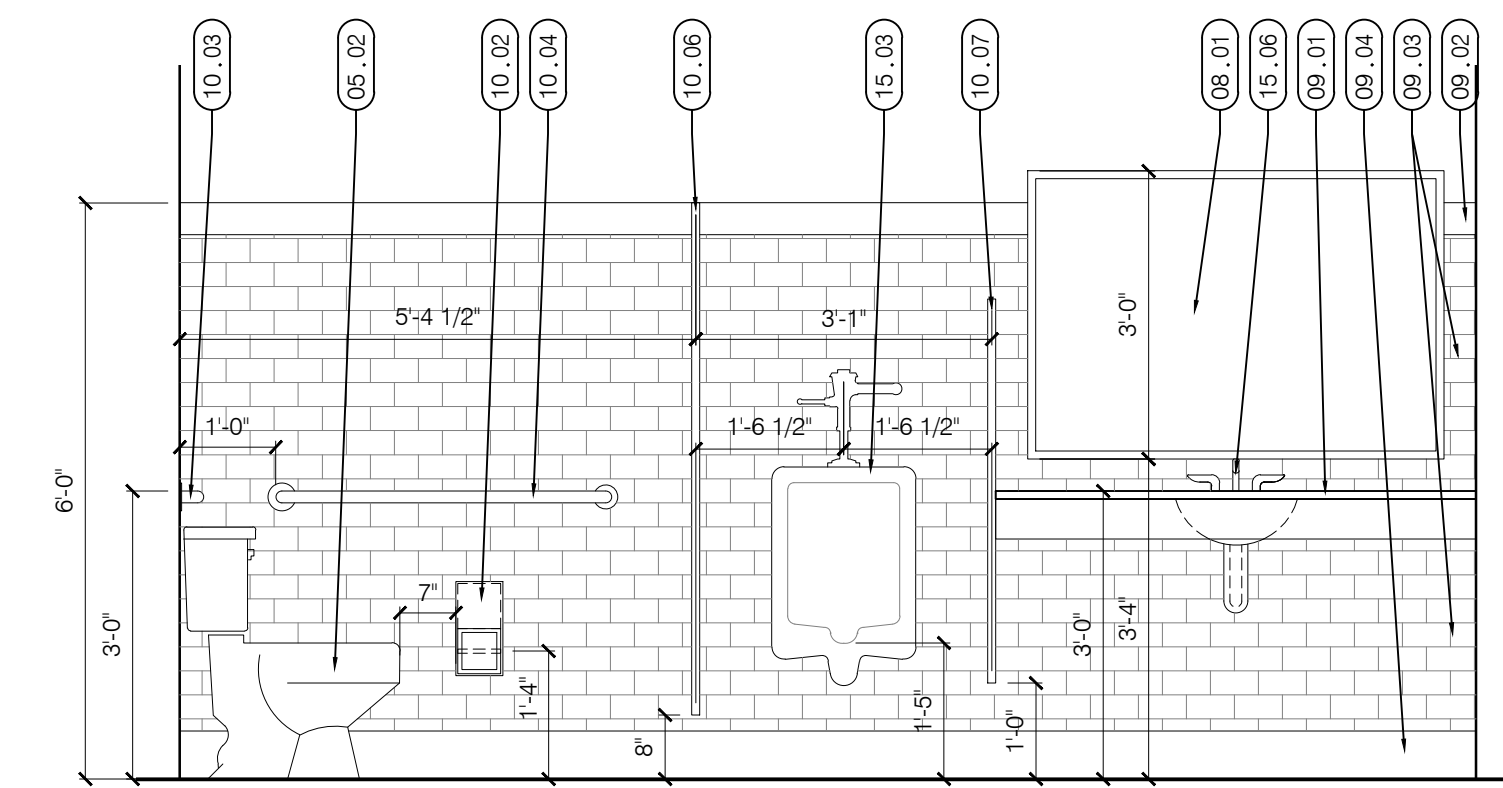
2 ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



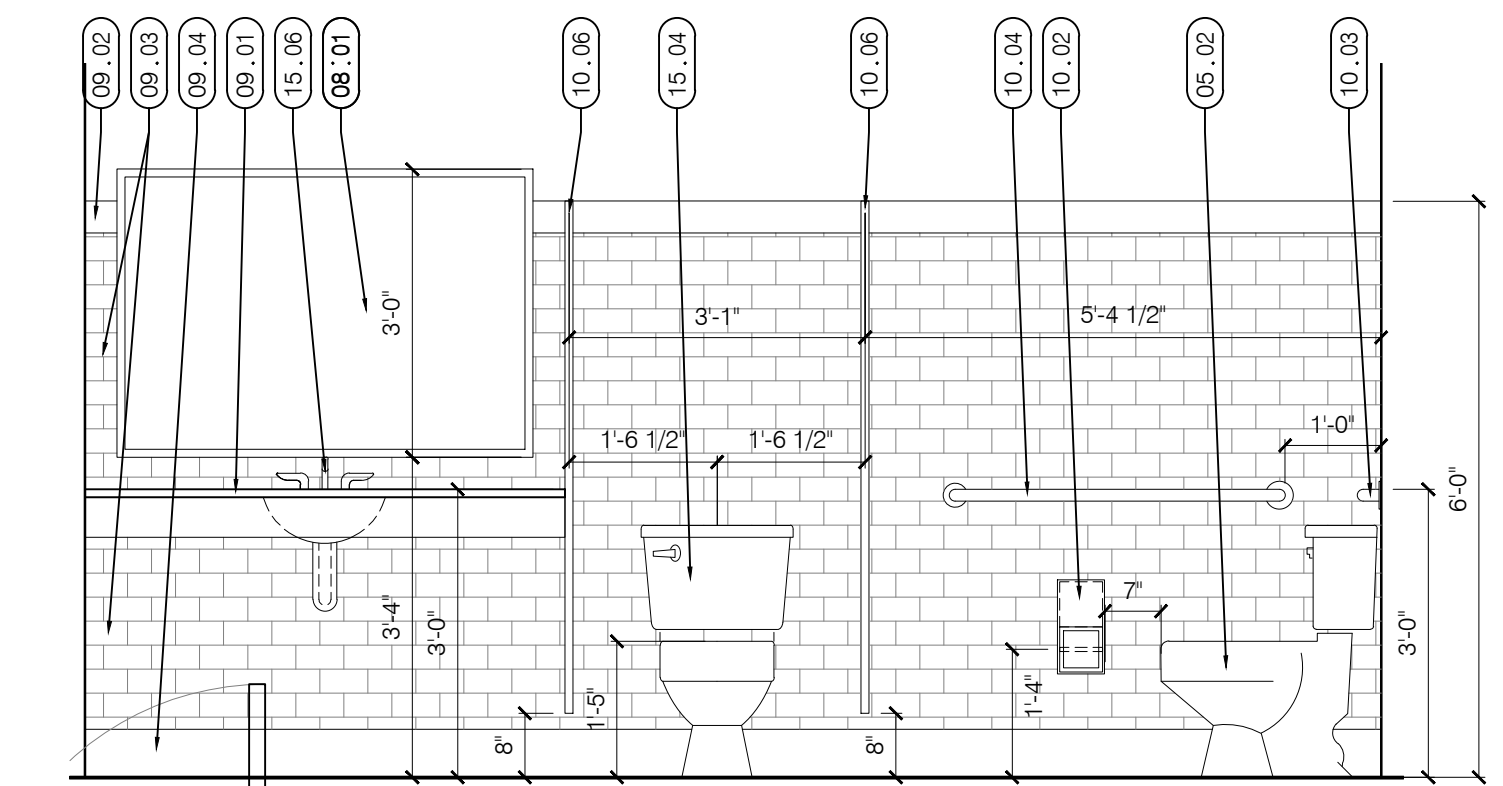
3 ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



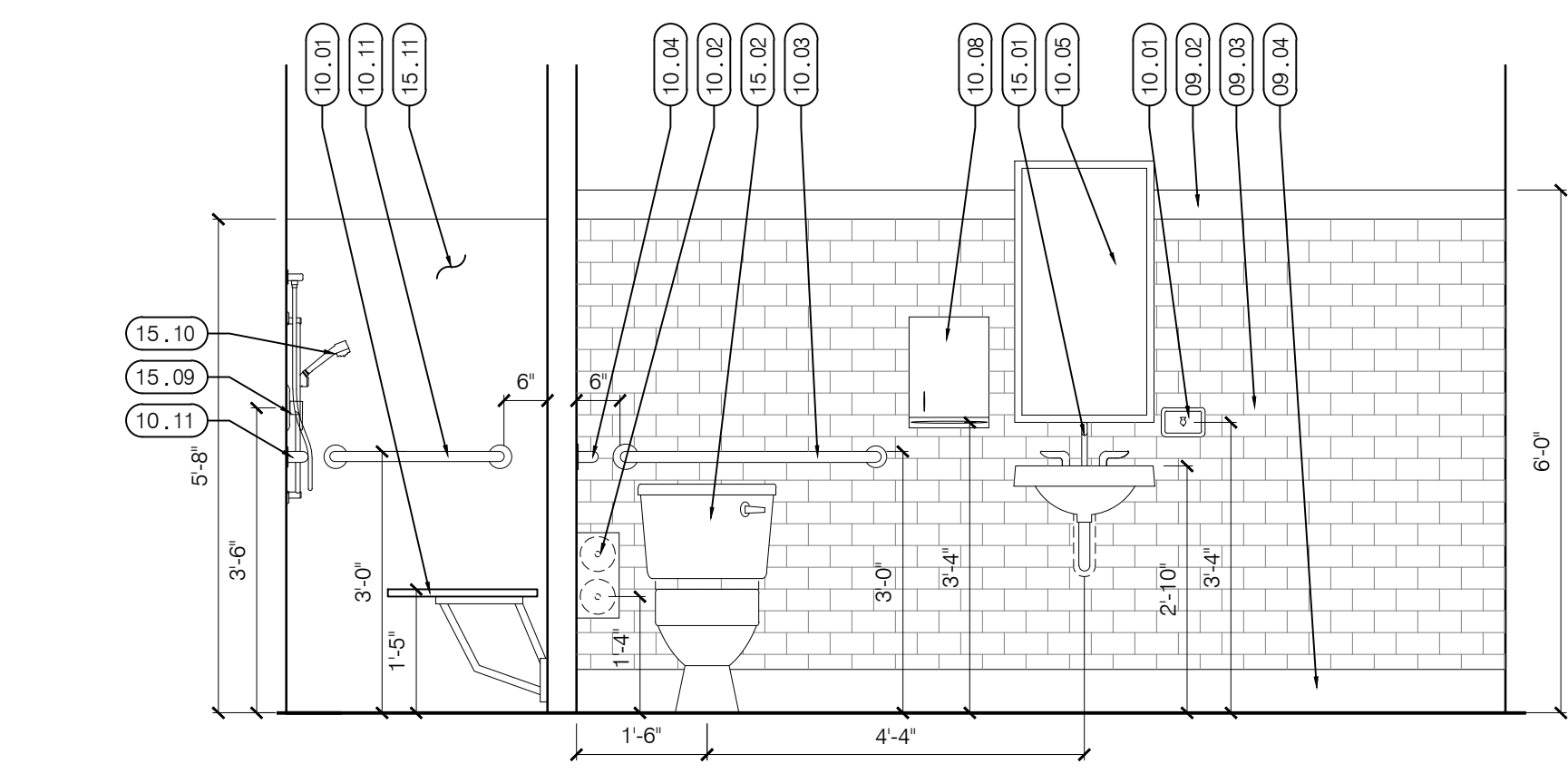
4 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



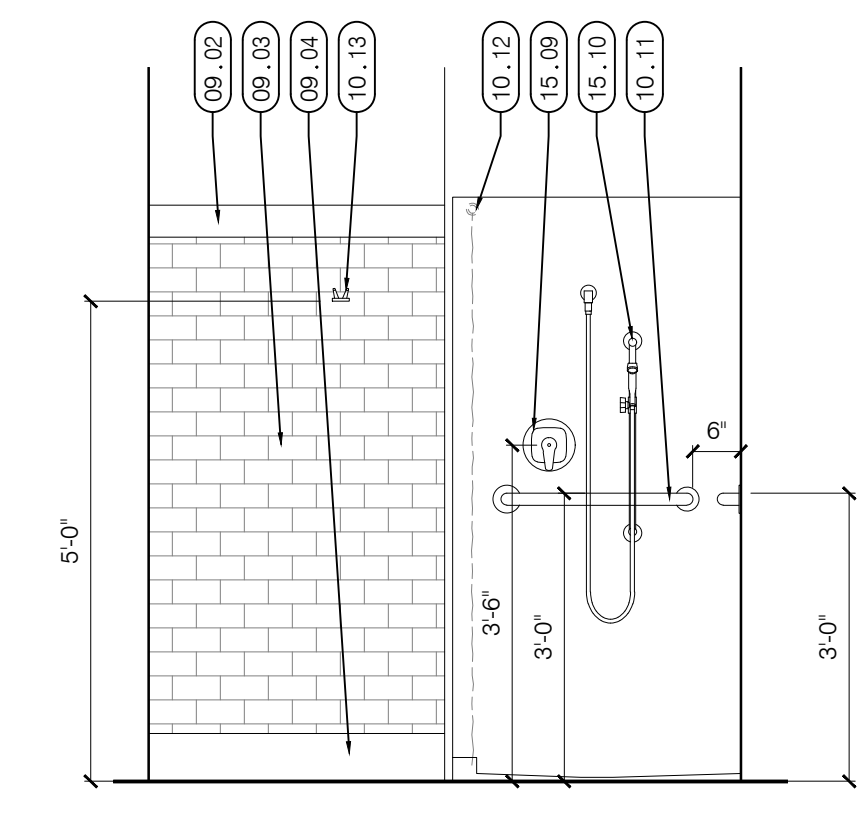
5 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



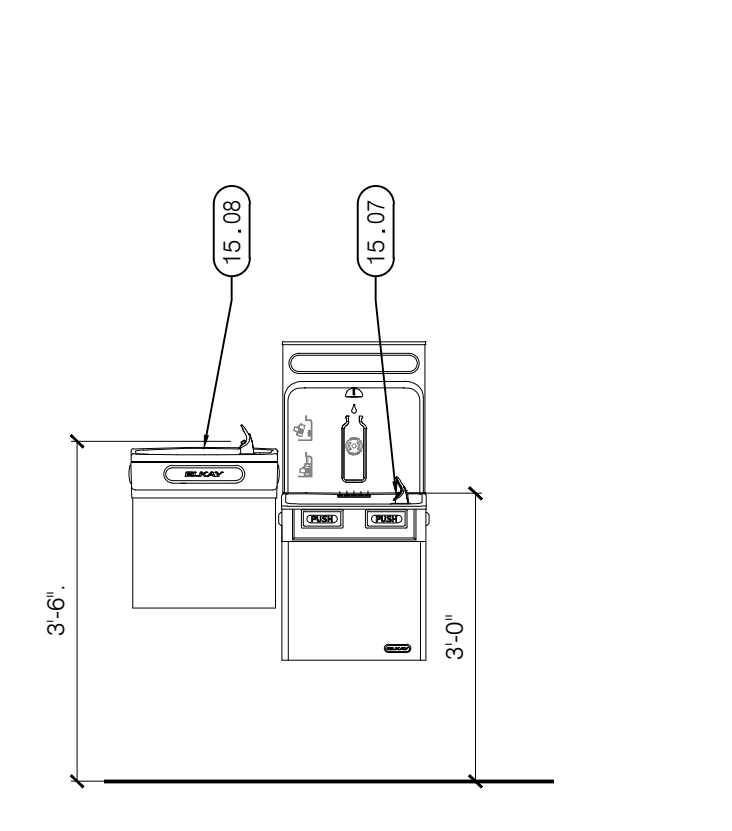
6 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



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



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

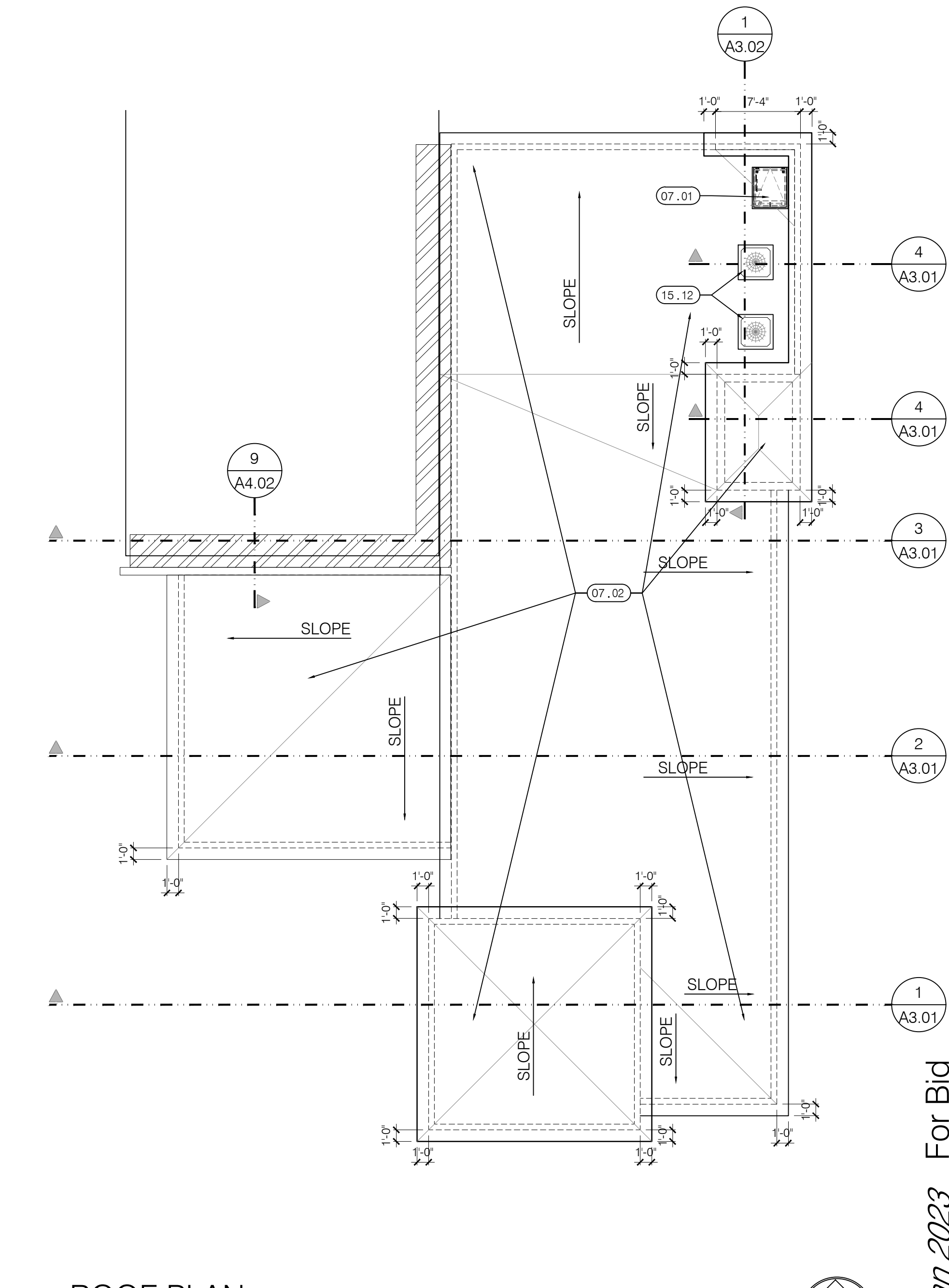


9 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

KEYNOTES: SHEET A1.30 ONLY

- 01 GENERAL:
 - 01.01 SEE INTERIOR ELEVATION 4/A1.30.
 - 01.02 SEE INTERIOR ELEVATION 5/A1.30.
 - 01.03 SEE INTERIOR ELEVATION 6/A1.30.
 - 01.04 SEE INTERIOR ELEVATION 7/A1.30.
 - 01.05 SEE INTERIOR ELEVATION 8/A1.30.
 - 01.06 SEE INTERIOR ELEVATION 9/A1.30.
- 07 THERMAL & MOISTURE PROTECTION:
 - 07.01 ROOF ACCESS HATCH.
 - 07.02 FULLY ADHERED TPO MEMBRANE ROOFING SYSTEM. TURN UP WALLS AS FLASHING, 6" MIN.
- 08 DOORS & WINDOWS:
 - 08.01 4'-8" x 3'-0" TEMPERED GLASS MIRROR IN WOOD FRAME. MOUNTED AT TOP OF BACK SPLASH.
- 09 FINISHES:
 - 09.01 3cm SOLID SURFACE, CORIAN OR EQUAL, TOP, BACK SPLASH, AND FRONT. COLOR TO BE DETERMINED.
 - 09.02 4" BULL NOSE PORCELAIN TILE HEADER.
 - 09.03 3" x 6" PORCELAIN SUBWAY TILE, FIELD TILE.
 - 09.04 6" PORCELAIN TILE, SANITARY BASE.
- 10 SPECIALTIES:
 - (UNLESS NOTED OTHERWISE LISTED ITEMS ARE BY BRADLEY CO.)
 - 10.01 SOAP DISPENSER #6562, WALL MOUNTED, AT 40" A.F.F. MAX. TO SPOUT.
 - 10.02 TISSUE DISPENSER #5402, SURFACE MOUNTED MULTI-ROLL, MOUNT 1'-4".
 - 10.03 GRAB BAR #812-001-36 HORIZONTAL, 1 1/2" DIAMETER. MOUNT 36" MAX. A.F.F. TO TOP OF BAR.
 - 10.04 GRAB BAR #812-001-42 HORIZONTAL, 1 1/2" DIAMETER. MOUNT 36" MAX. A.F.F. TO TOP OF BAR.
 - 10.05 MIRROR #B-740-1836, 18" X 36", TILTED, TEMPERED GLASS, STAINLESS STEEL FRAME, MOUNT 40" MAX. TO BOTTOM A.F.F.

- 10.06 SOLID PLASTIC TOILET COMPARTMENTS TO BE SCRANTON HINY HIDERS, COLOR TBD.
- 10.07 SOLID PLASTIC URINAL SCREEN TO BE SCRANTON HINY HIDERS, COLOR TBD.
- 10.08 PAPER TOWEL DISPENSER, #235-10, MOUNTED AT 48" TO OPENING.
- 10.09 BABY CHANGING STATION, #9631 MOUNT AT 36" TO DECK.
- 10.10 ADA COMPLIANT FOLD UP SEAT.
- 10.11 GRAB BAR #812-001-24 HORIZONTAL, 1 1/2" DIAMETER. MOUNT 36" MAX. A.F.F. TO TOP OF BAR.
- 10.12 SHOWER CURTAIN, RINGS AND ROD.
- 10.13 ROB HOOKS, MOUNT AT 60" A.F.F.
- 15 MECHANICAL:
 - 15.01 ADA COMPLIANT SINK, W/ ADA COMPLIANT PIPE PROTECTOR.
 - 15.02 ADA COMPLIANT TOILET.
 - 15.03 ADA COMPLIANT URINAL.
 - 15.04 TOILET, (STANDARD).
 - 15.05 FLOOR DRAIN.
 - 15.06 DECK MOUNTED SINK AND FAUCET GROUP W/ ADA COMPLIANT PIPE PROTECTOR.
 - 15.07 ADA COMPLIANT DRINKING FOUNTAIN WITH BOTTLE FILLER.
 - 15.08 DRINKING FOUNTAIN (STANDARD).
 - 15.09 ADA COMPLIANT SHOWER CONTROLS, MOUNT AT 40" A.F.F.
 - 15.10 ADA COMPLIANT HAND-HELD SHOWER WAND.
 - 15.11 ADA COMPLIANT PREFAB. SHOWER UNIT.
 - 15.12 HVAC CONDENSER UNIT.



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

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ROOF PLAN

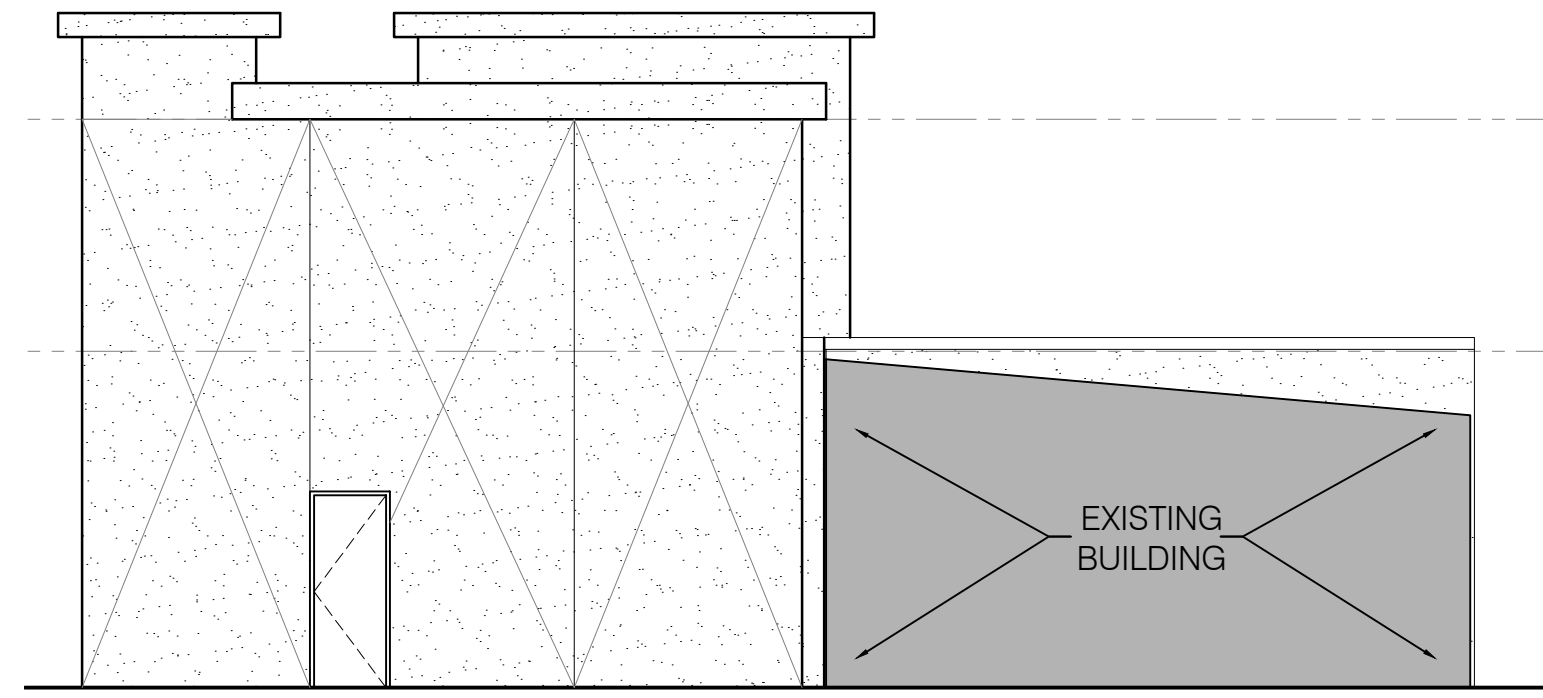
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FORT WALTON BEACH
MUSEUM ADDITION

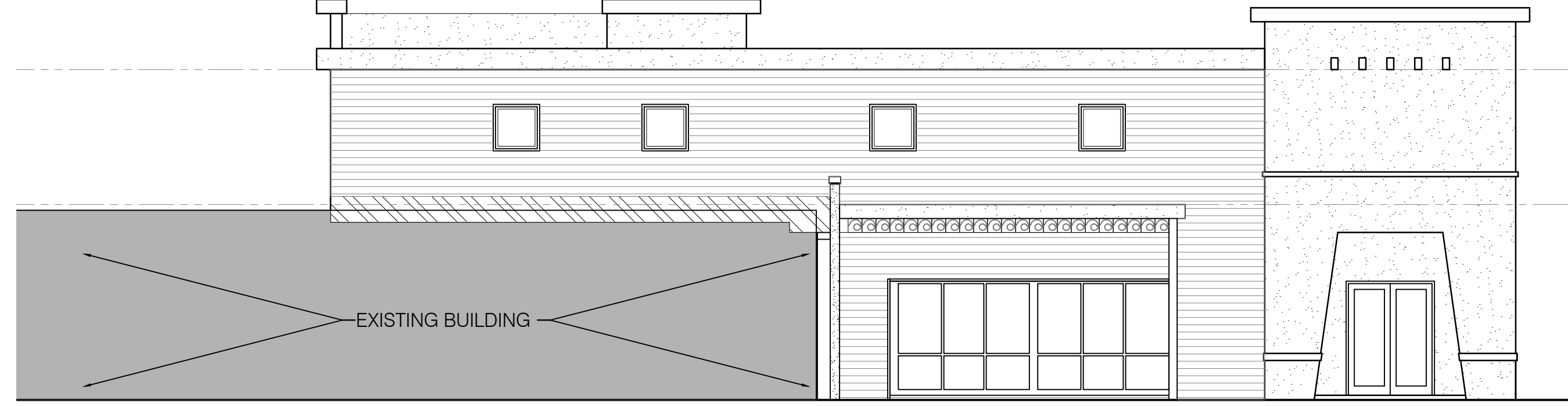
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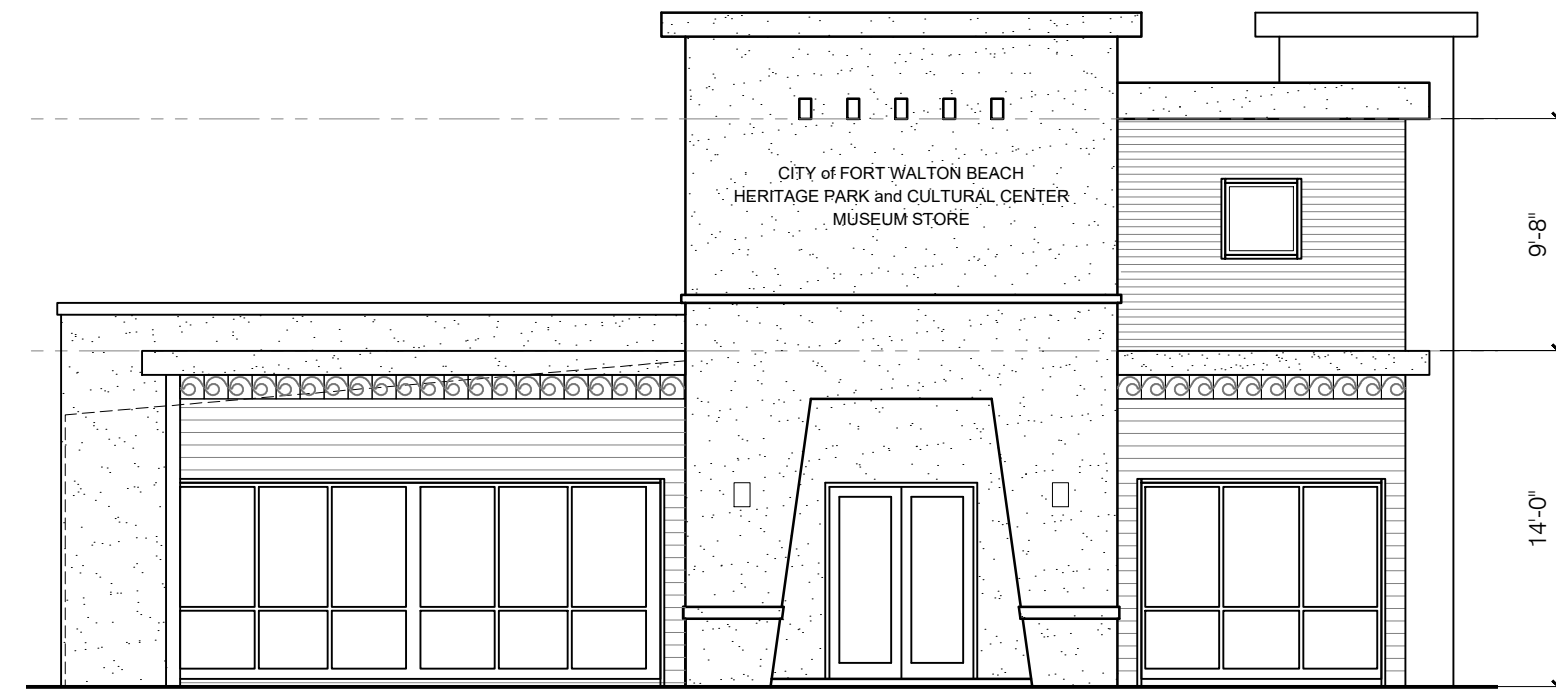
A1.30



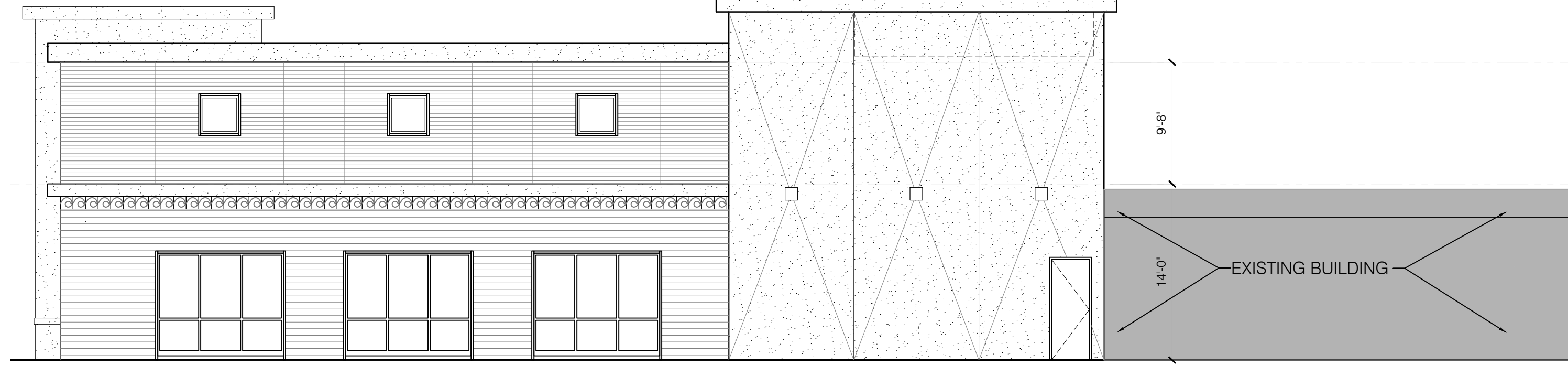
3 BUILDING ELEVATION: NORTH
SCALE: 1/8" = 1'-0"



4 BUILDING ELEVATION: WEST
SCALE: 1/8" = 1'-0"



1 BUILDING ELEVATION: SOUTH
SCALE: 1/8" = 1'-0"



2 BUILDING ELEVATION: EAST
SCALE: 1/8" = 1'-0"

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PROJECT NO.:	2119
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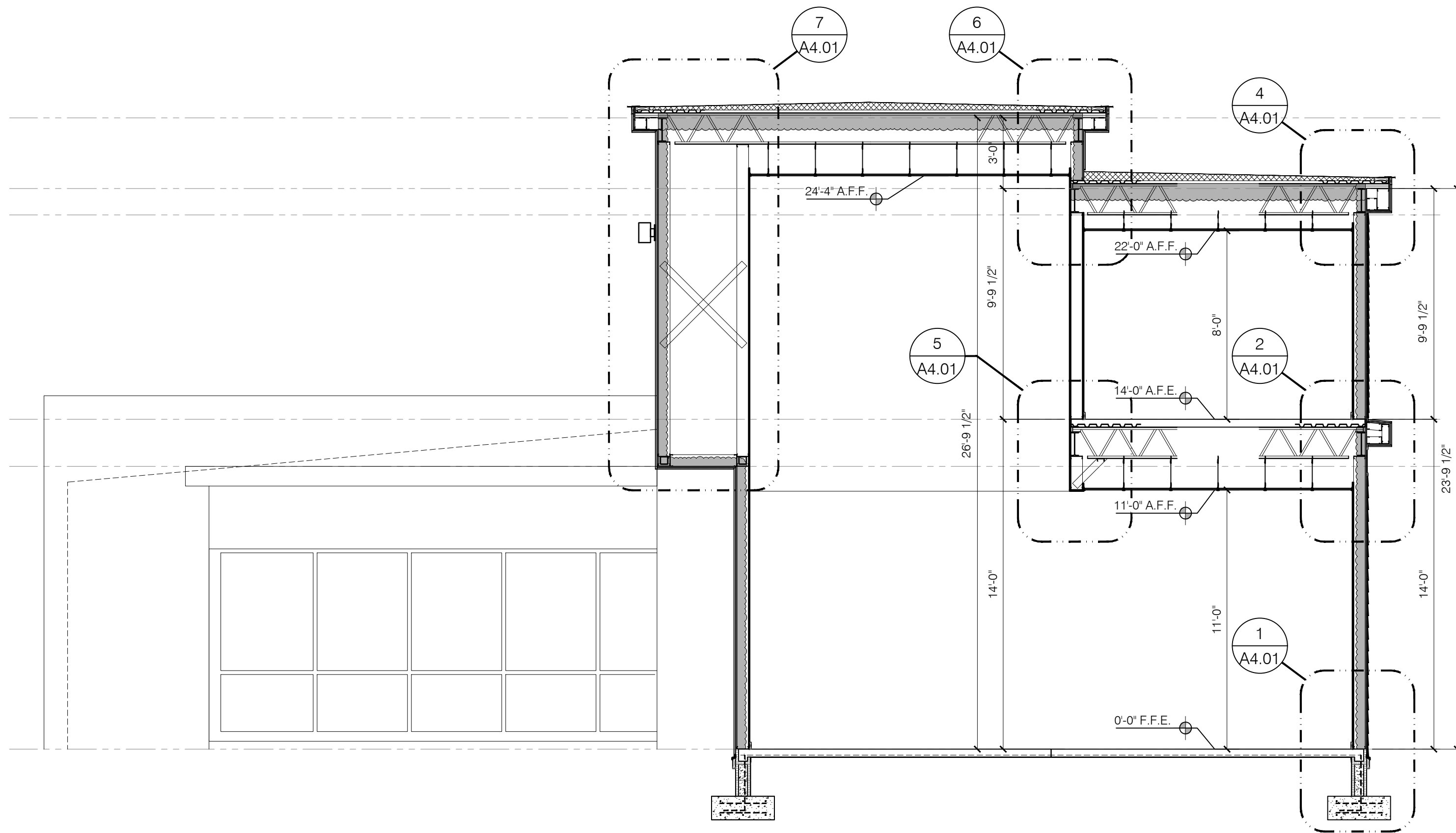
BUILDING ELEVATIONS

A2.01

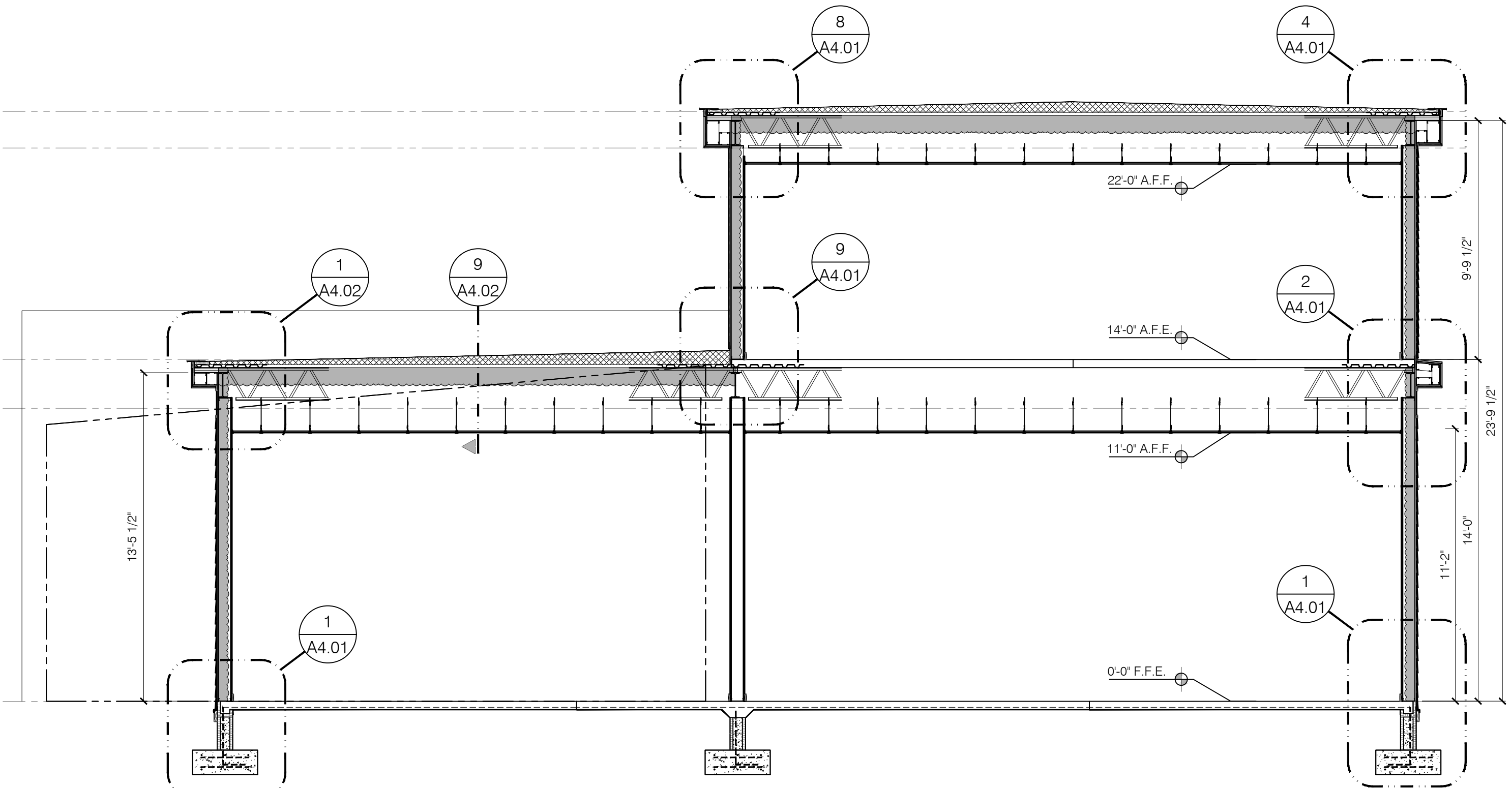
FORT WALTON BEACH
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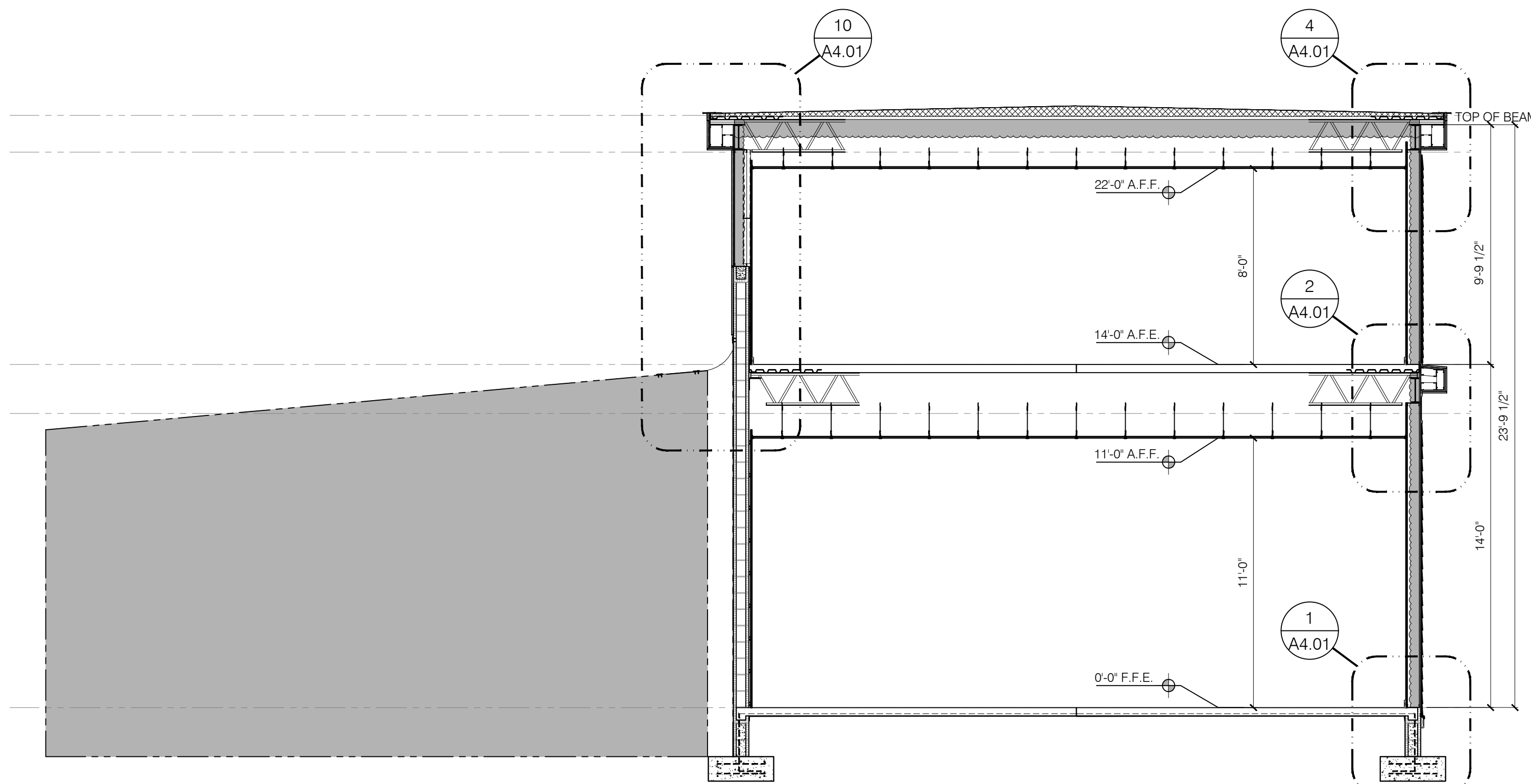
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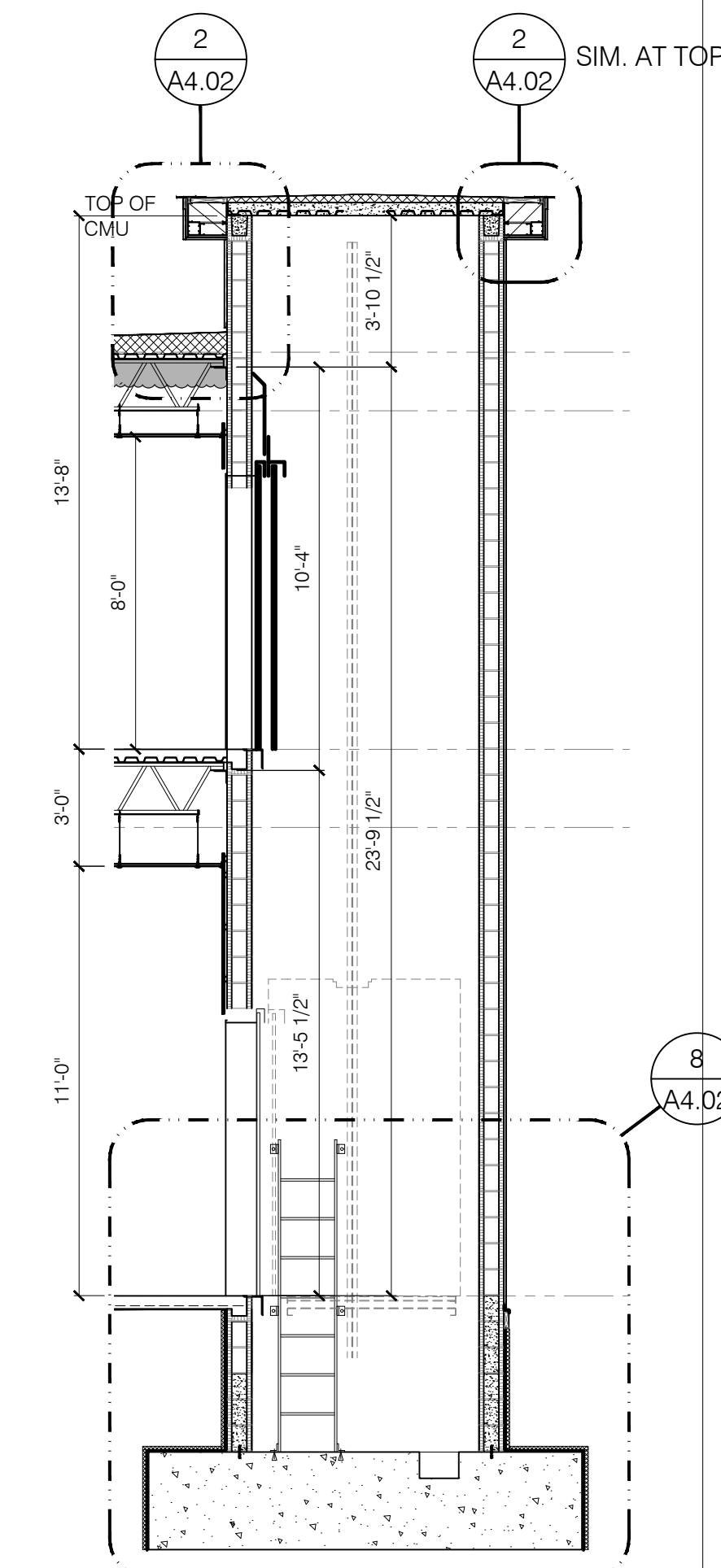
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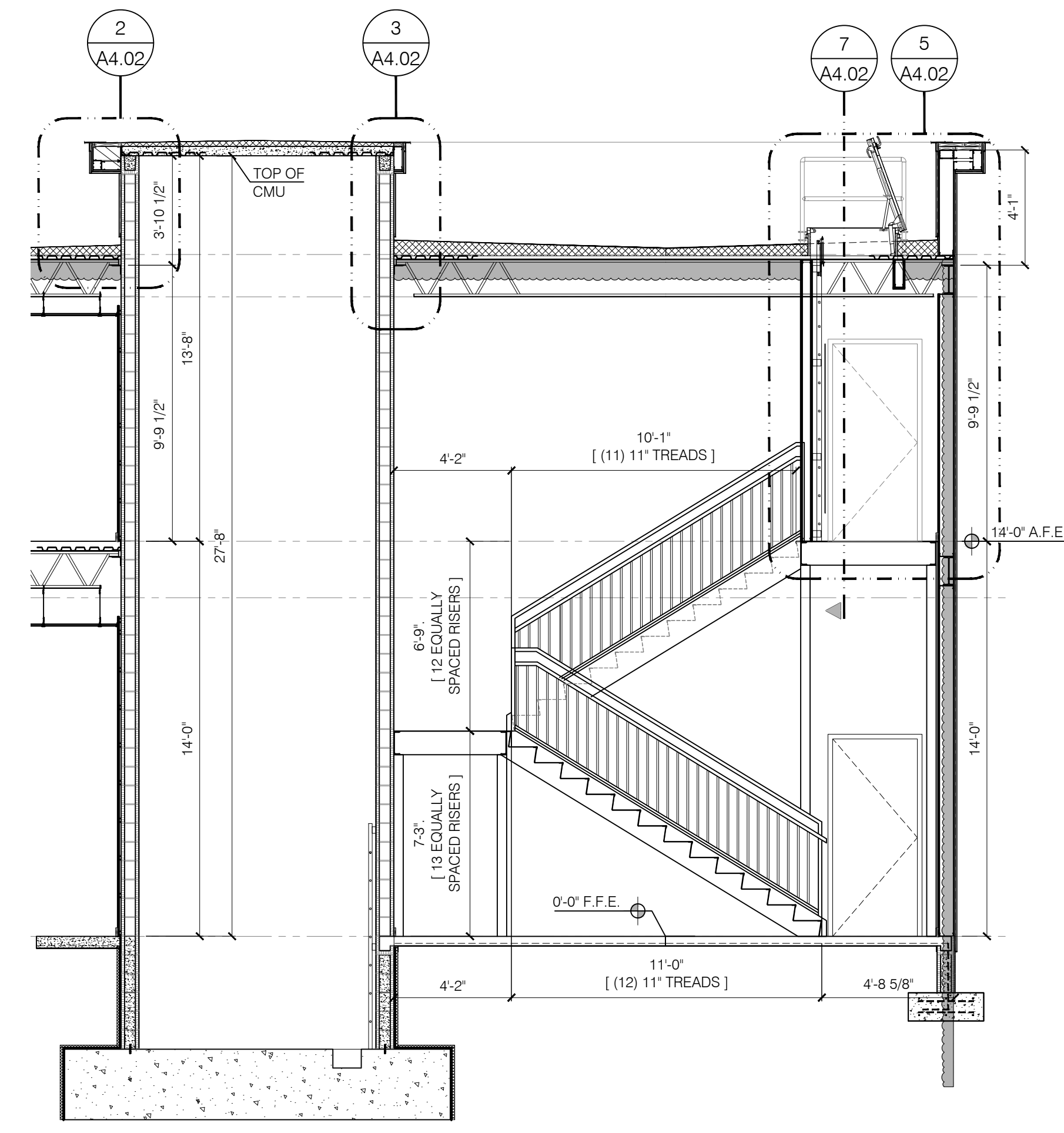
2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



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



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



5 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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BUILDING SECTIONS

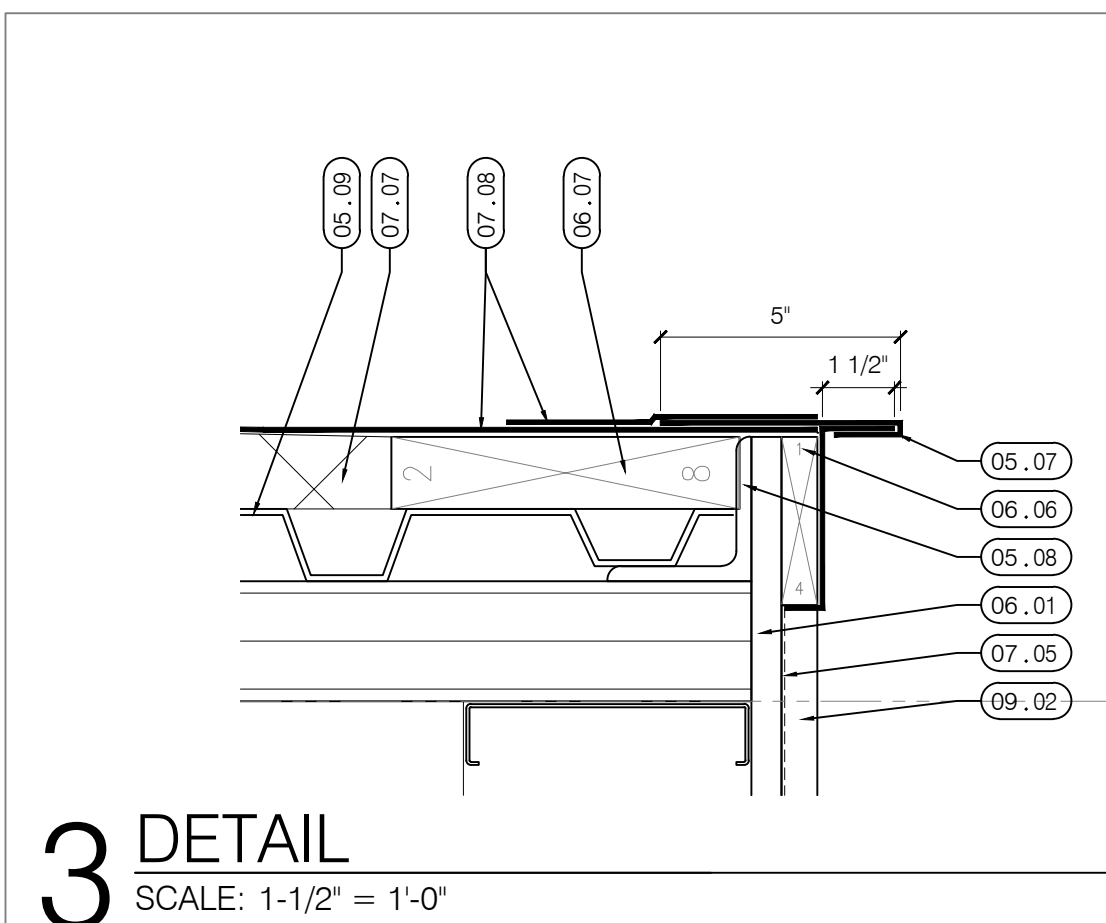
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PROJECT NO: 2119
REVISIONS: _____

A3.01

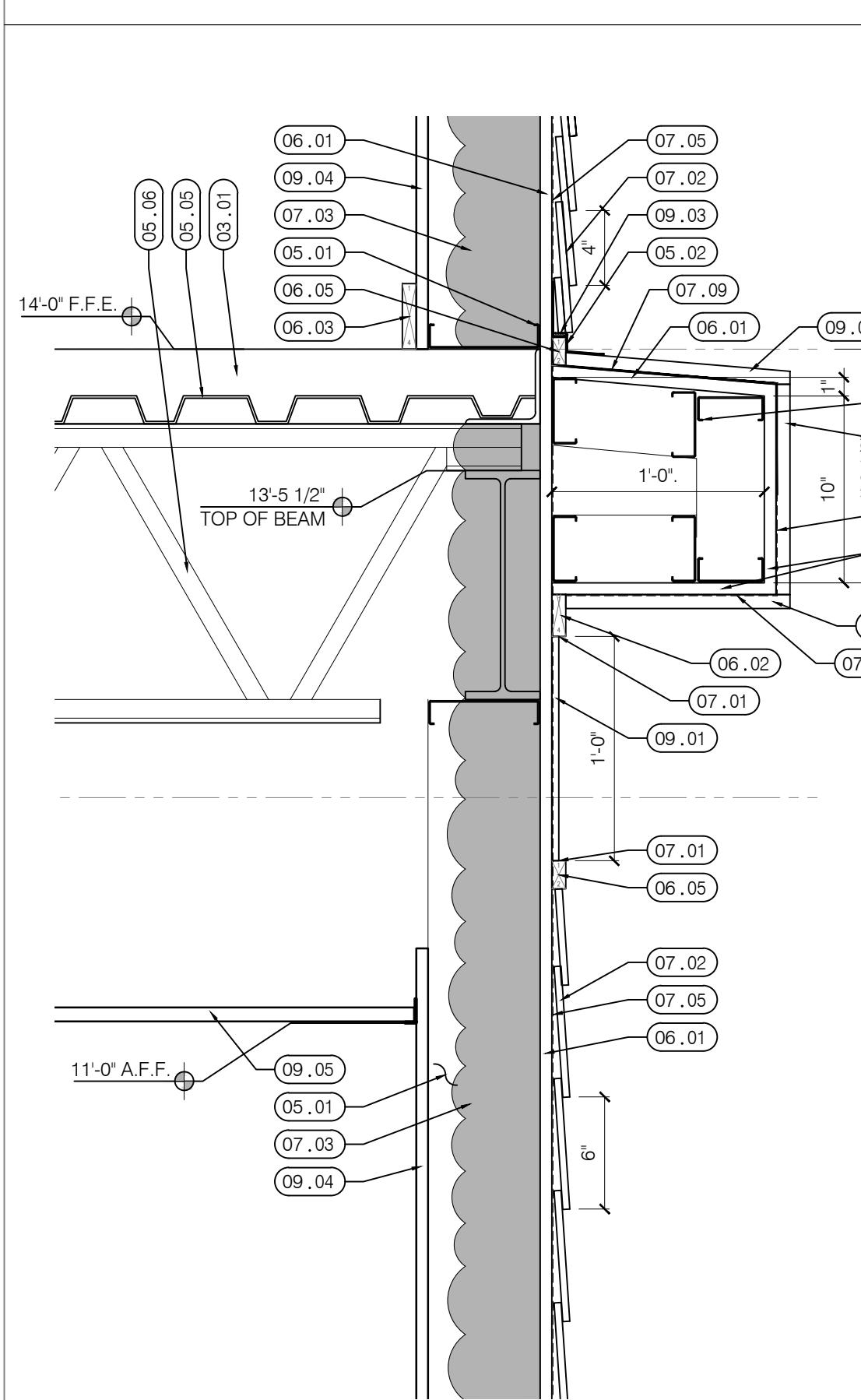
**FORT WALTON BEACH
MUSEUM ADDITION**

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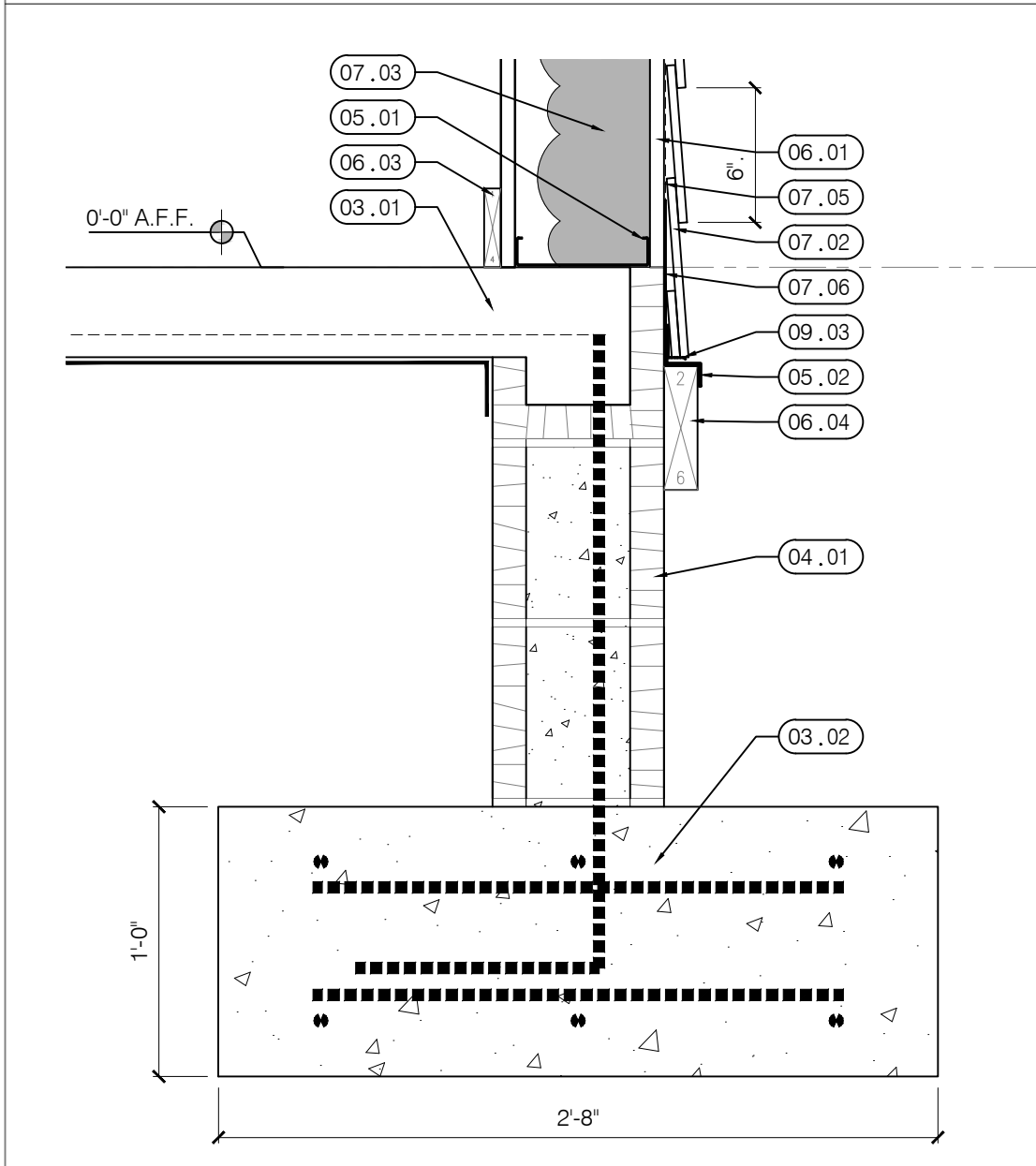
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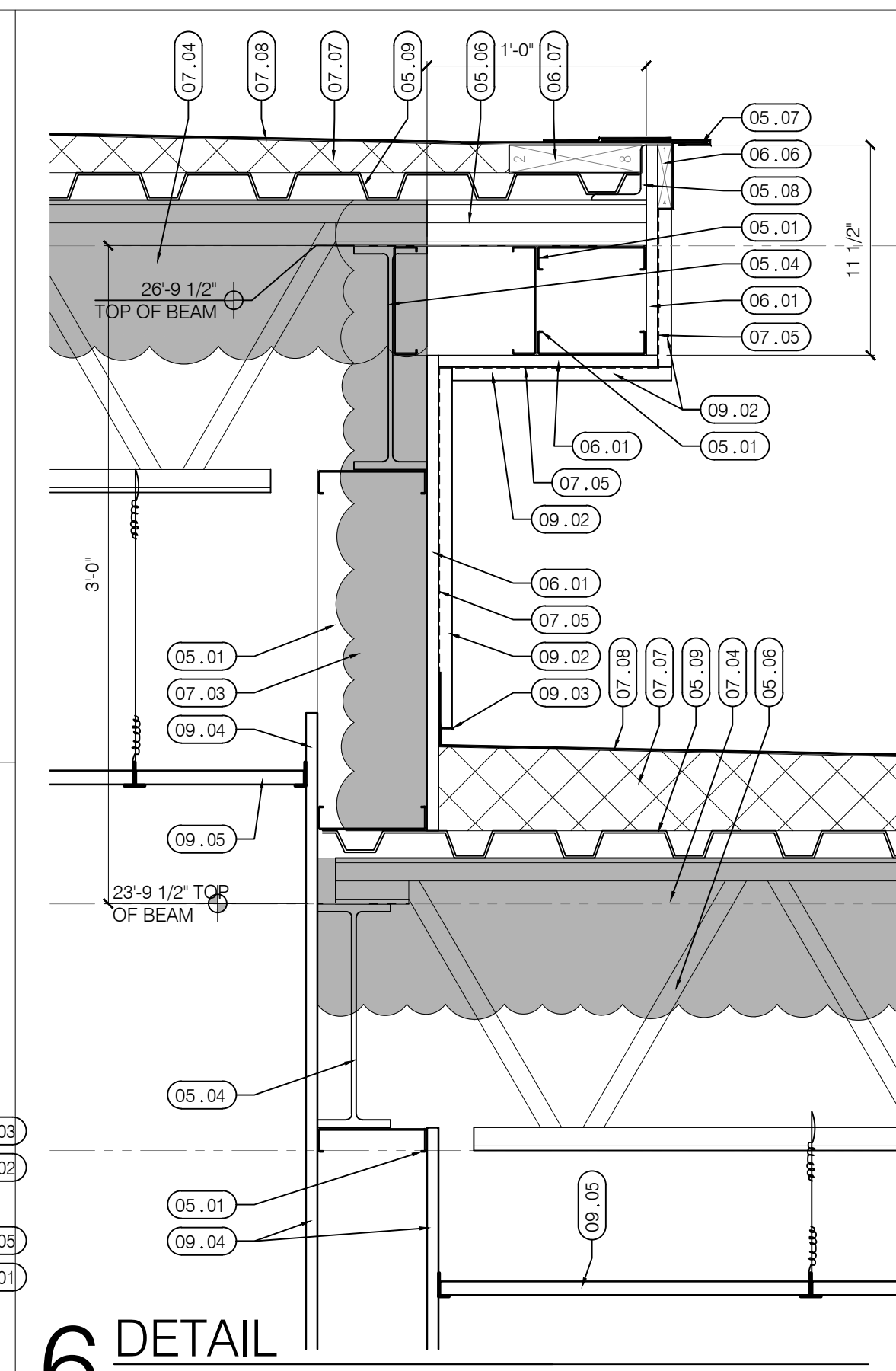
3 DETAIL
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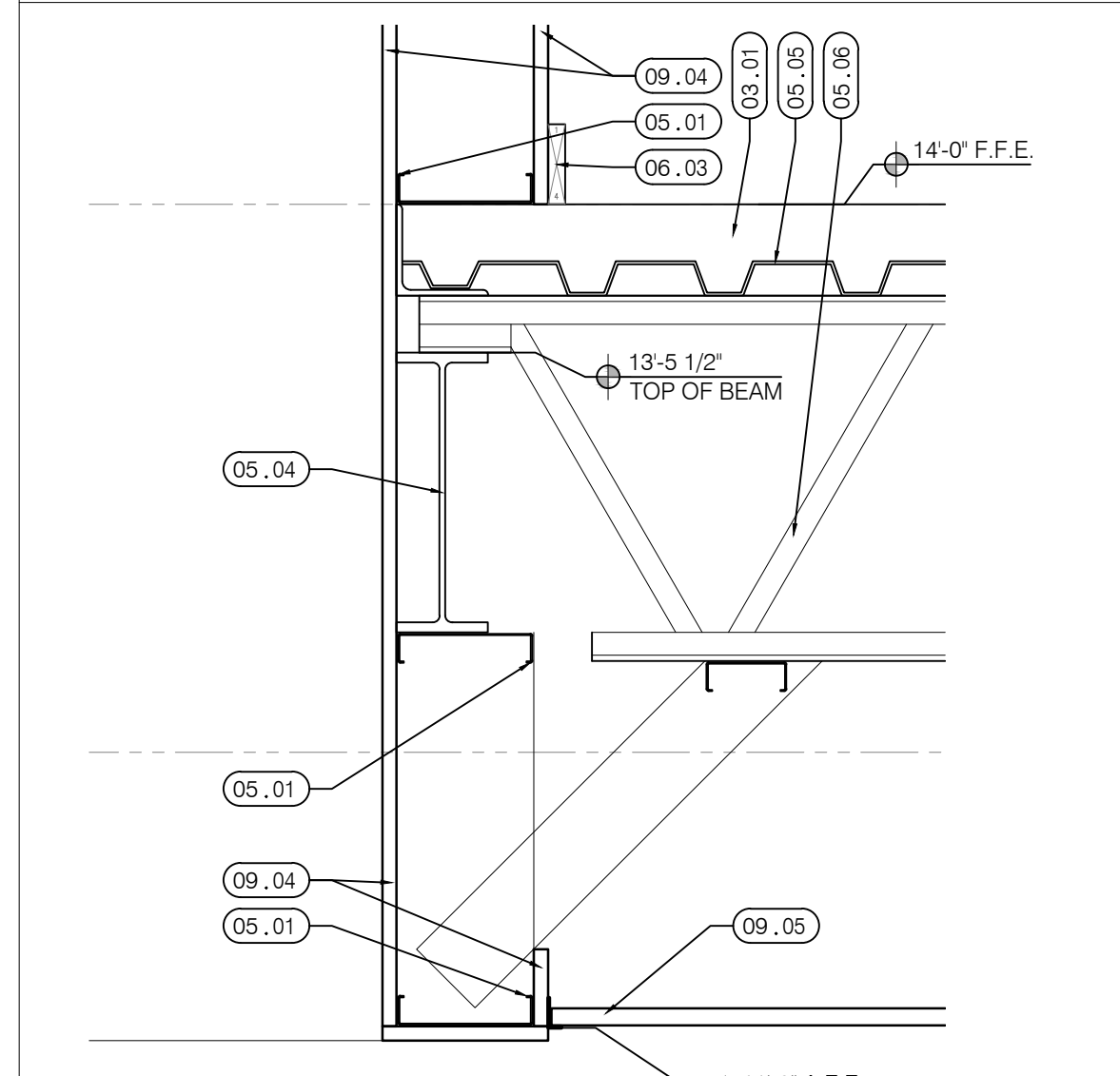
2 DETAIL
SCALE: 1-1/2" = 1'-0"



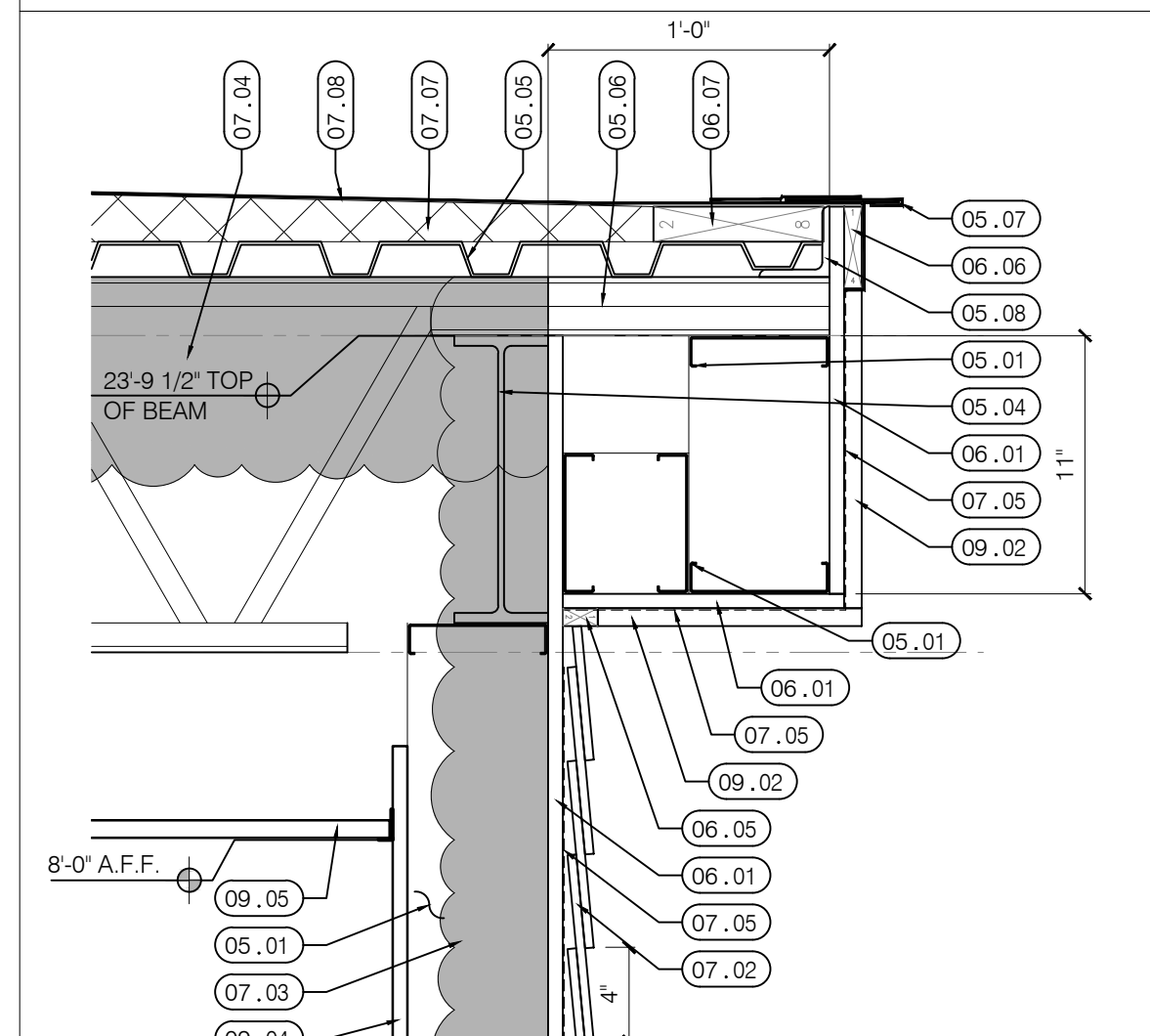
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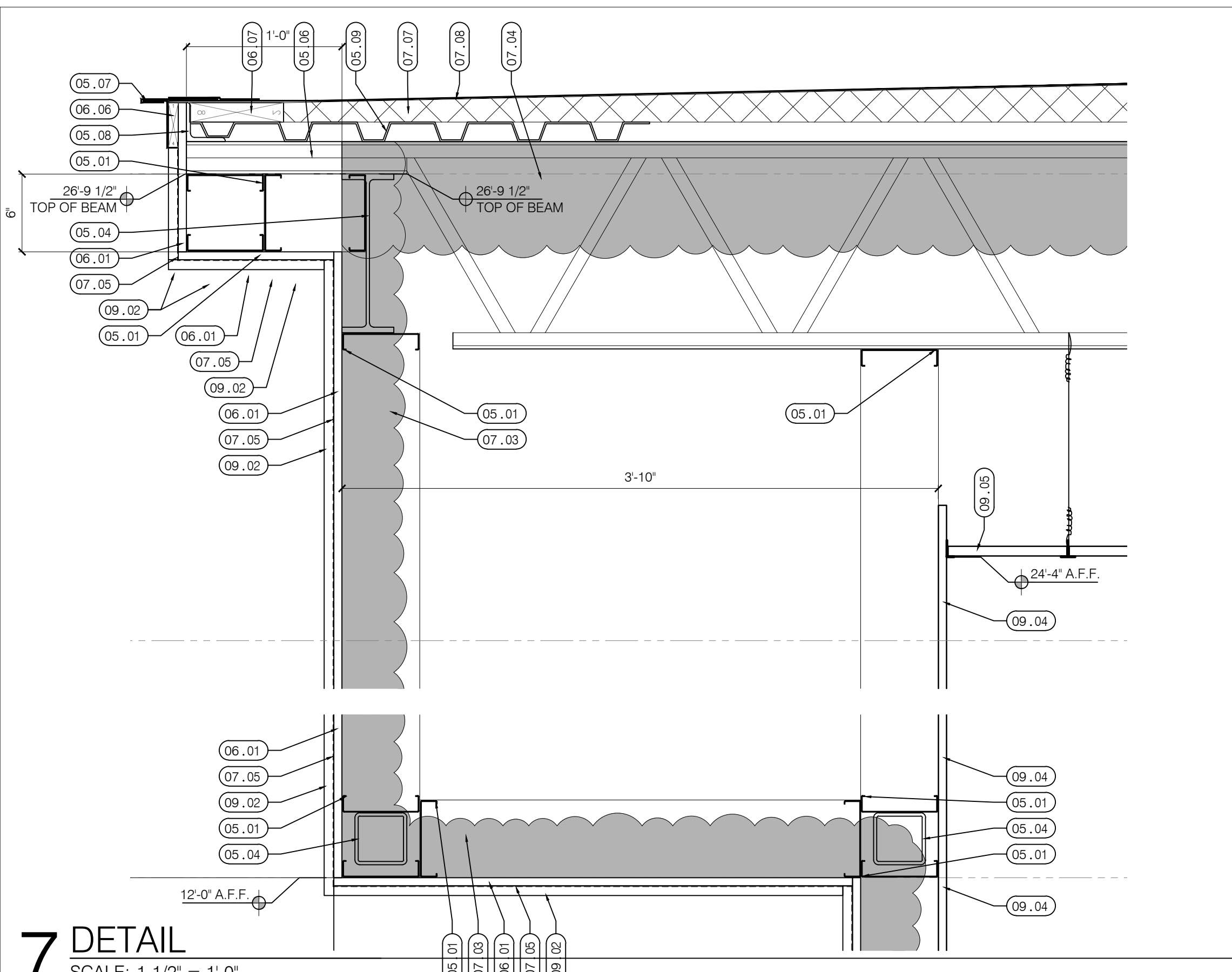
6 DETAIL
SCALE: 1-1/2" = 1'-0"



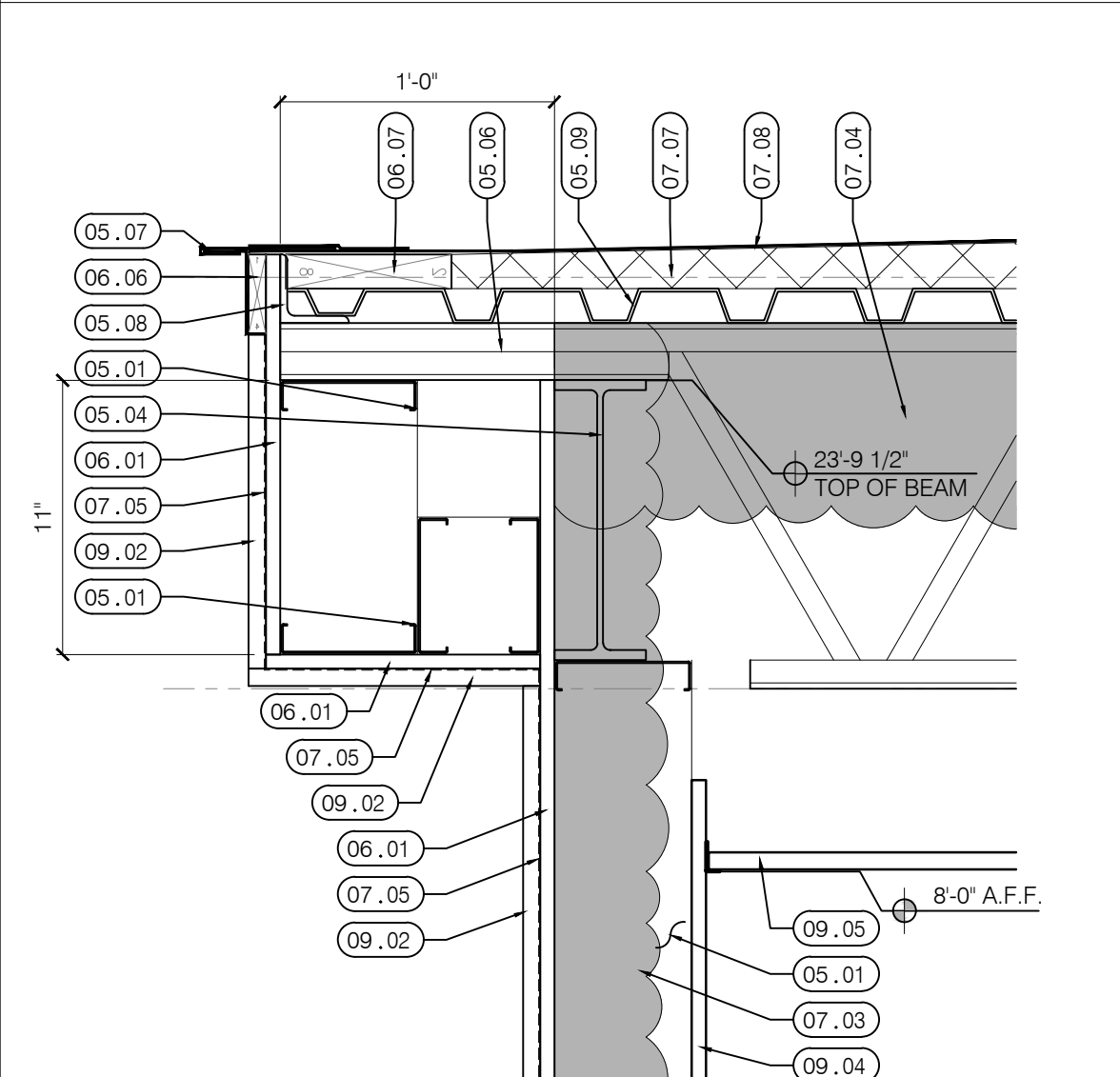
5 DETAIL
SCALE: 1-1/2" = 1'-0"



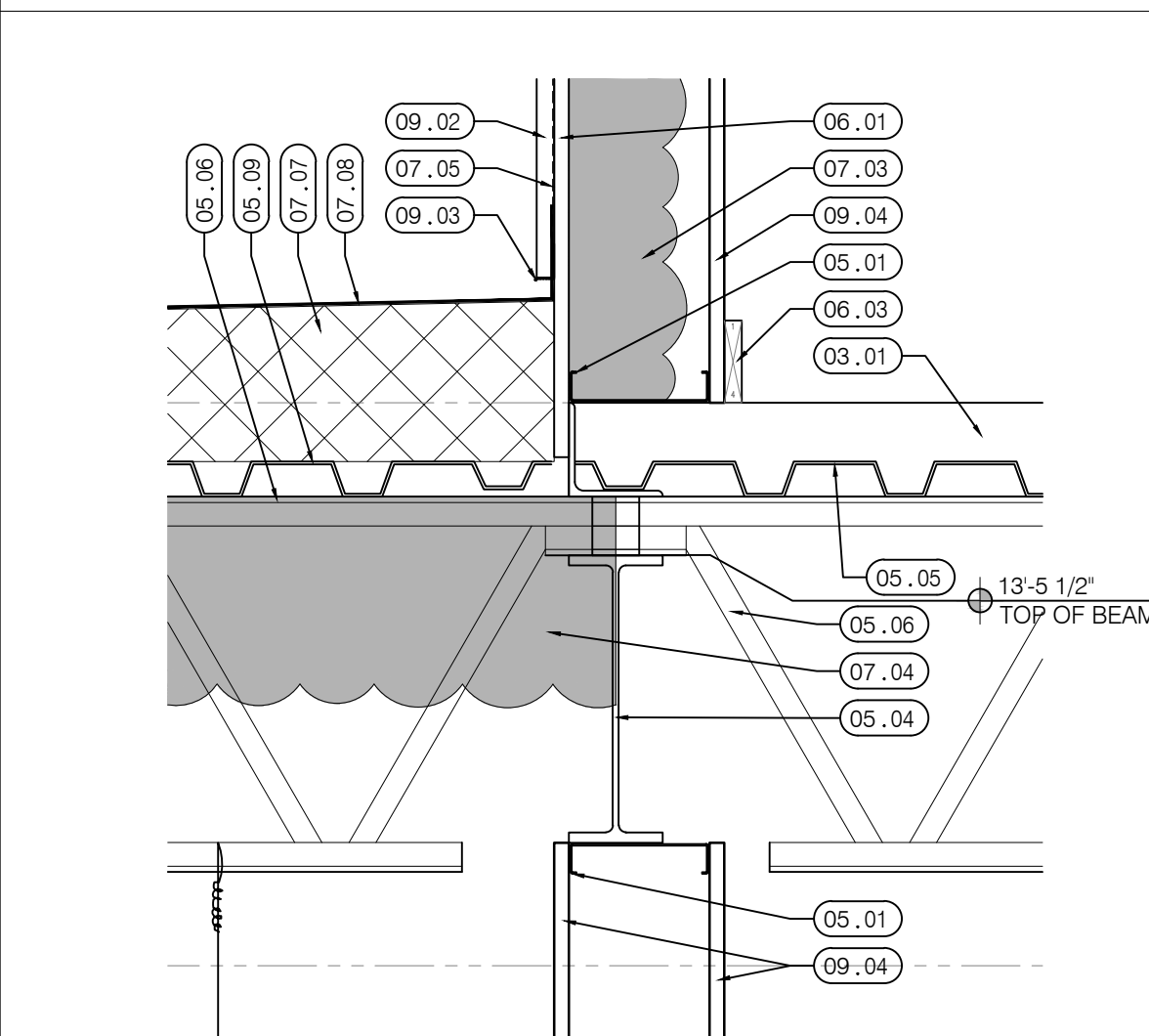
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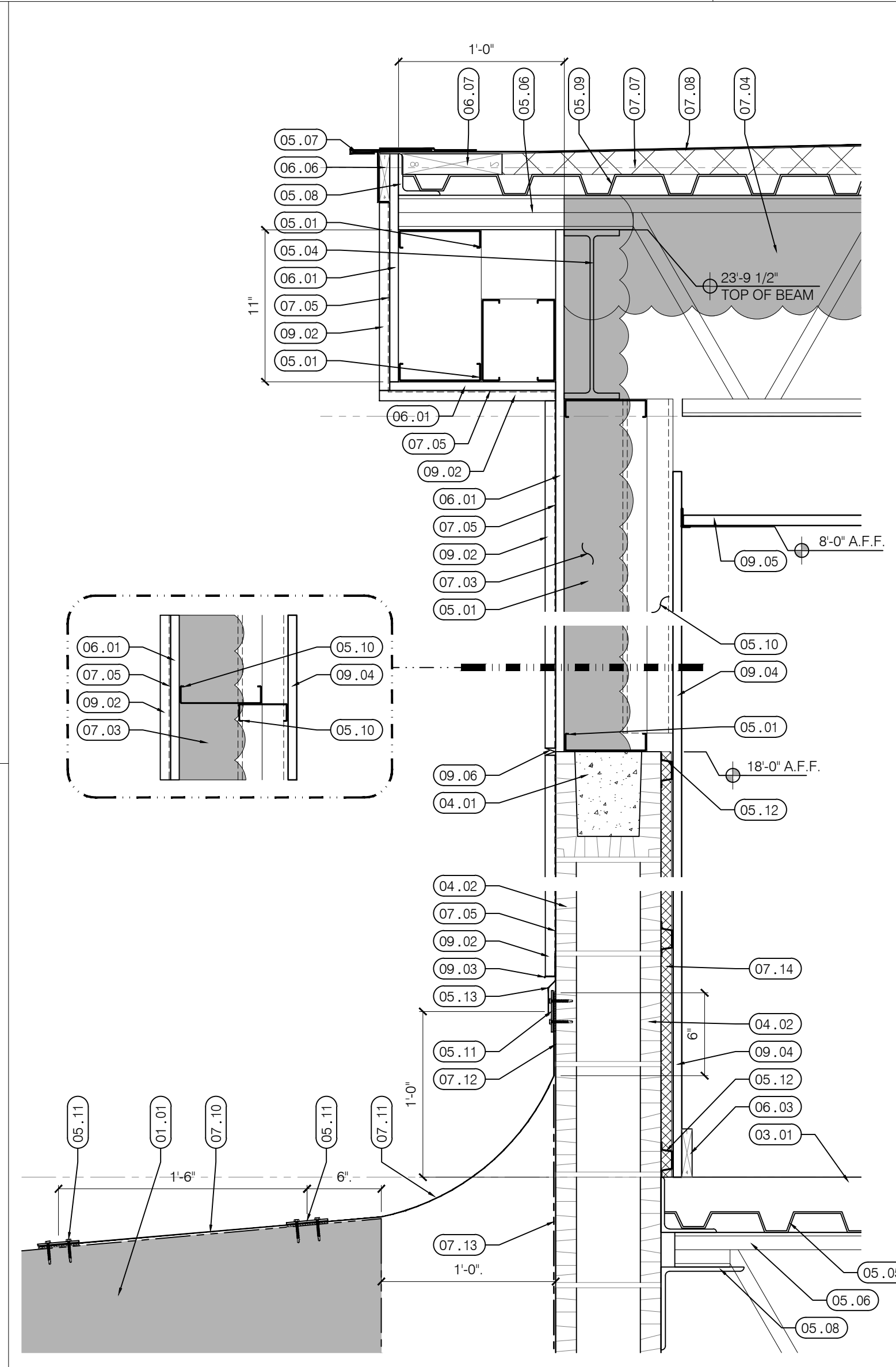
7 DETAIL
SCALE: 1-1/2" = 1'-0"



8 DETAIL
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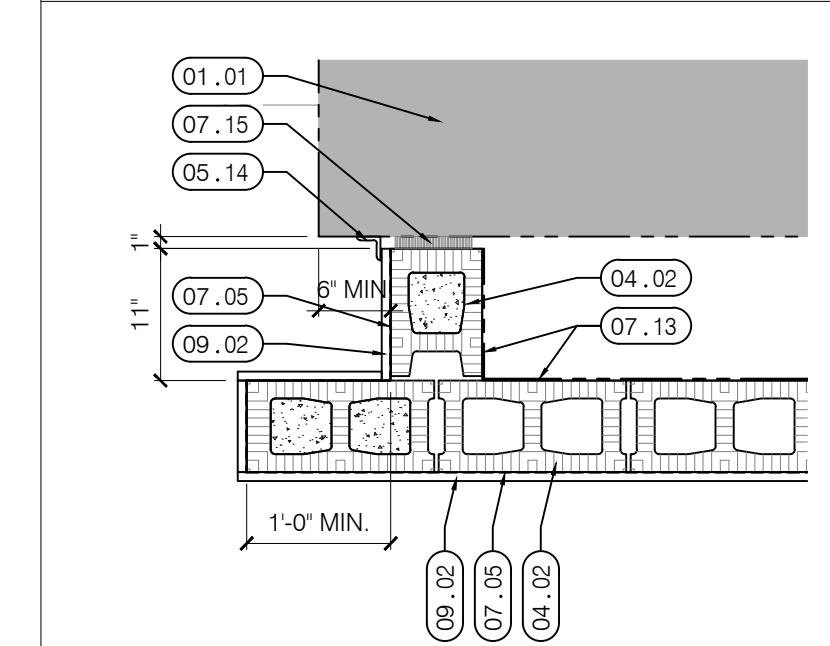
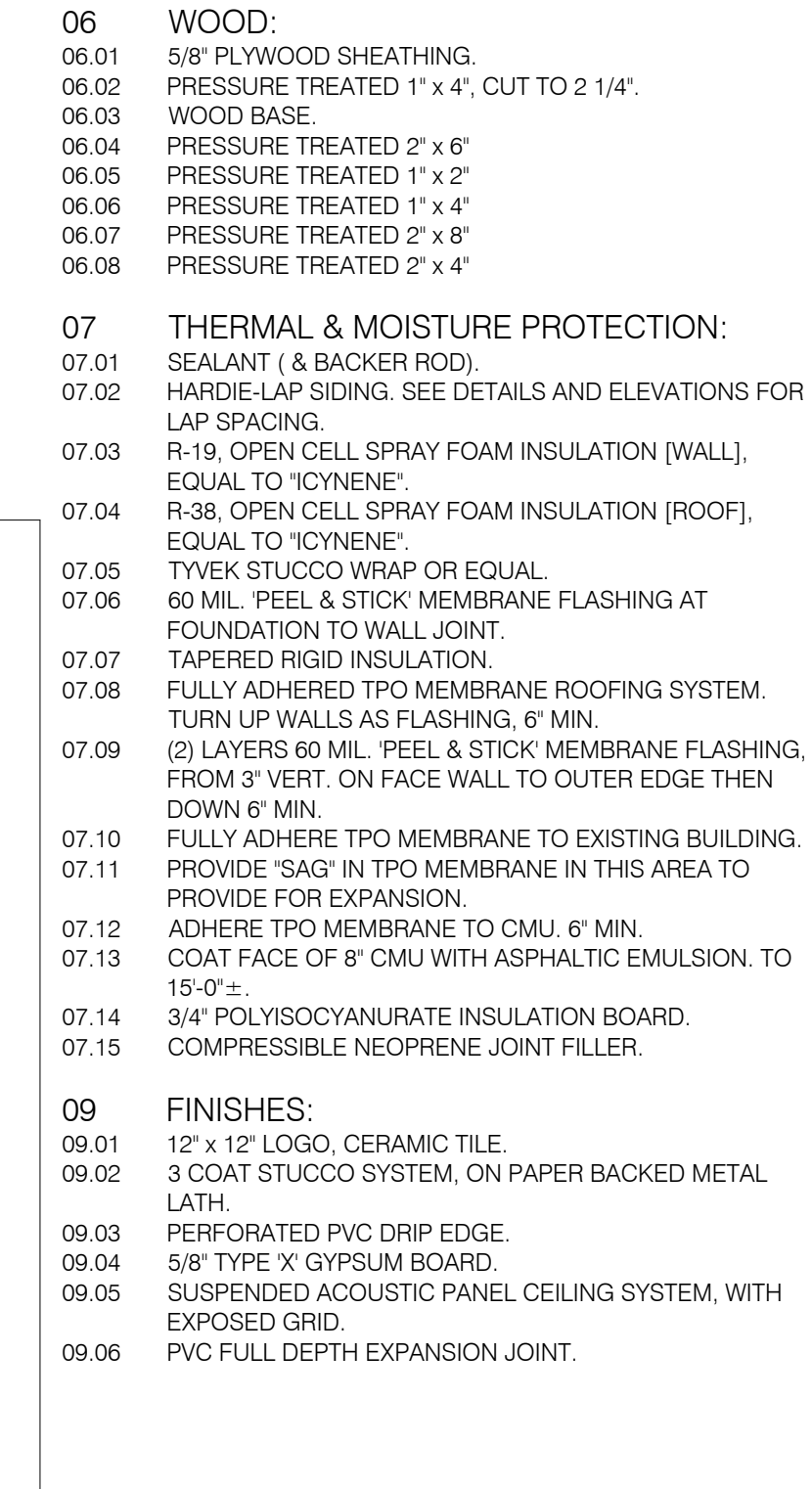


9 DETAIL
SCALE: 1-1/2" = 1'-0"



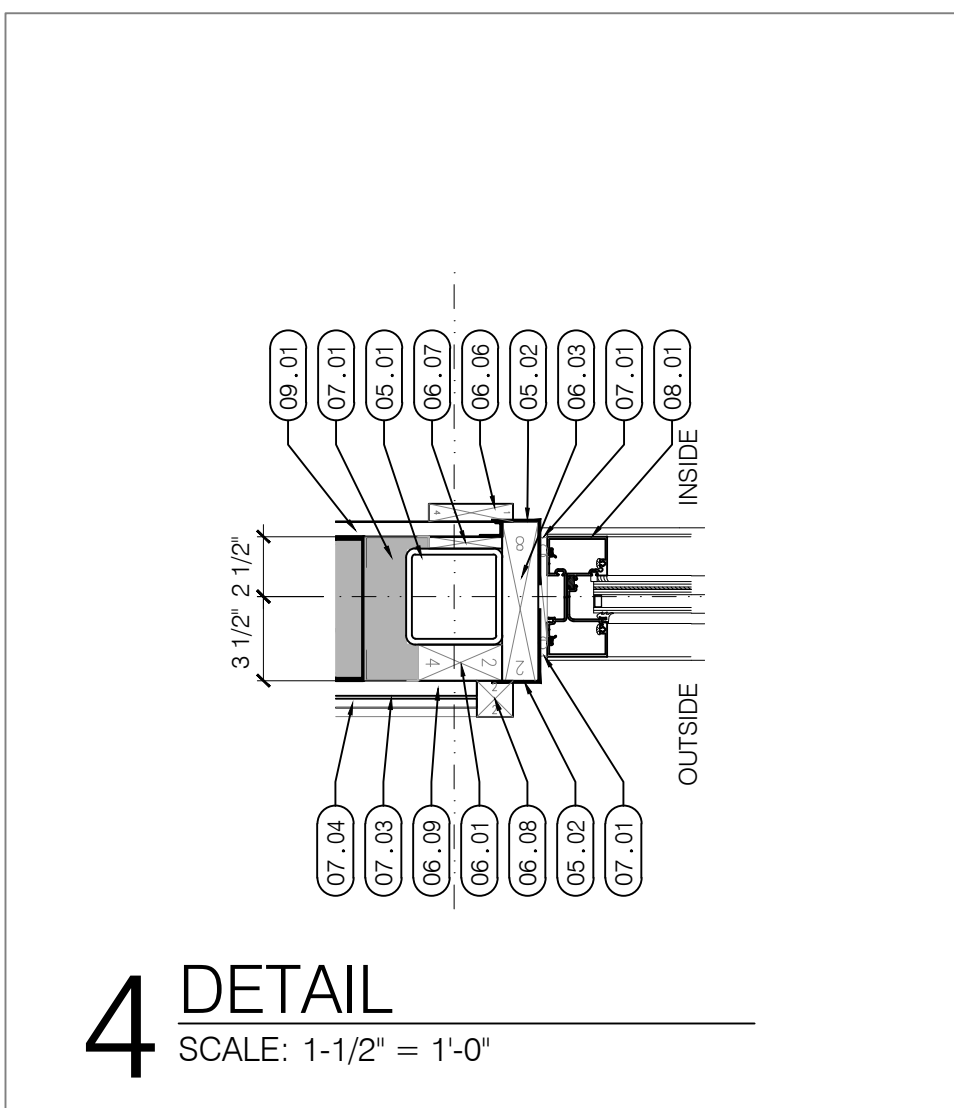
10 DETAIL
SCALE: 1-1/2" = 1'-0"

- KEYNOTES:** SHEET A4.01 ONLY
- 01 GENERAL:**
01.01 EXISTING BUILDING, PROTECT FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION, REPORT ANY EXISTING DAMAGE TO ARCHITECT PRIOR TO STARTING CONSTRUCTION.
- 03 CONCRETE:**
03.01 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS.
03.02 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS.
- 04 MASONRY:**
04.01 8" CMU, CONCRETE FILLED.
04.02 8" CMU, WITH HORIZONTAL JOINT REINFORCING AT ALTERNATE COURSES. SEE STRUCTURAL FOR CONCRETE REINFORCING.
- 05 METAL:**
05.01 6" GALV. STEEL STUDS, SEE STRUCTURAL FOR GAUGE AND SPACING.
05.02 KYNAR FINISHED METAL COUNTERFLASHING.
05.03 3 5/8" GALV. STEEL STUD FRAMING, AT 16" O.C. MAX. STEEL STRUCTURE, SEE STRUCTURAL DRAWINGS.
05.04 GALV. STEEL FLOOR DECKING, SEE STRUCTURAL DRAWINGS.
05.05 3 5/8" GALV. STEEL STUDS AS FURRING, SCREW TO FACES OF 6" METAL STUDS.
05.06 CONTINUOUS 3" STAINLESS STEEL FLASHING BAR WITH STAINLESS STEEL FASTENERS AT 8" O.C. SET BAR IN FULL SEALANT BED.
05.07 7/8" GALV. STEEL STUDS FURRING CHANNELS AT 16" O.C. HORIZ.
05.08 STAINLESS STEEL COUNTERFLASHING, 6" WIDE MIN.
05.09 2" x 2" STAINLESS STEEL ANGLE, AS EXPANSION JOINT COVER, FILL HEIGHT OF WALL JOINT.
- 06 WOOD:**
06.01 5/8" PLYWOOD SHEATHING.
06.02 PRESSURE TREATED 1" x 4", CUT TO 2 1/4".
06.03 WOOD BASE.
06.04 PRESSURE TREATED 2" x 6".
06.05 PRESSURE TREATED 1" x 2".
06.06 PRESSURE TREATED 1" x 4".
06.07 PRESSURE TREATED 2" x 8".
06.08 PRESSURE TREATED 2" x 4".
- 07 THERMAL & MOISTURE PROTECTION:**
07.01 SEALANT (& BACKER ROD).
07.02 HARDIE-LAP SIDING, SEE DETAILS AND ELEVATIONS FOR LAP SPACING.
07.03 R-19, OPEN CELL SPRAY FOAM INSULATION (WALL), EQUAL TO 'ICYNENE'.
07.04 R-38, OPEN CELL SPRAY FOAM INSULATION (ROOF), EQUAL TO 'ICYNENE'.
07.05 TYVEK STUCCO WRAP OR EQUAL.
07.06 60 MIL. PEEL & STICK MEMBRANE FLASHING AT FOUNDATION TO WALL JOINT.
07.07 TAPERED RIGID INSULATION.
07.08 FULLY ADHERED TPO MEMBRANE ROOFING SYSTEM. TURN UP WALLS AS FLASHING, 6" MIN.
07.09 2) LAYERS 60 MIL. PEEL & STICK MEMBRANE FLASHING, FROM 3" VERT. ON FACE WALL TO OUTER EDGE THEN DOWN 6" MIN.
07.10 FULLY ADHERE TPO MEMBRANE TO EXISTING BUILDING. PROVIDE "SAG" IN TPO MEMBRANE IN THIS AREA TO PROVIDE FOR EXPANSION.
07.11 ADHERE TPO MEMBRANE TO CMU, 6" MIN.
07.12 COAT FACE OF 8" CMU WITH ASPHALTIC EMULSION, TO 15'-0"±.
07.13 3/4" POLYISOCYANURATE INSULATION BOARD.
07.15 COMPRESSIBLE NEOPRENE JOINT FILLER.
- 09 FINISHES:**
09.01 12" x 12" LOGO, CERAMIC TILE.
09.02 3 COAT STUCCO SYSTEM, ON PAPER BACKED METAL LATH.
09.03 PERFORATED PVC DRIP EDGE.
09.04 5/8" TYPE 'X' GYPSUM BOARD.
09.05 SUSPENDED ACOUSTIC PANEL CEILING SYSTEM, WITH EXPOSED GRID.
09.06 PVC FULL DEPTH EXPANSION JOINT.

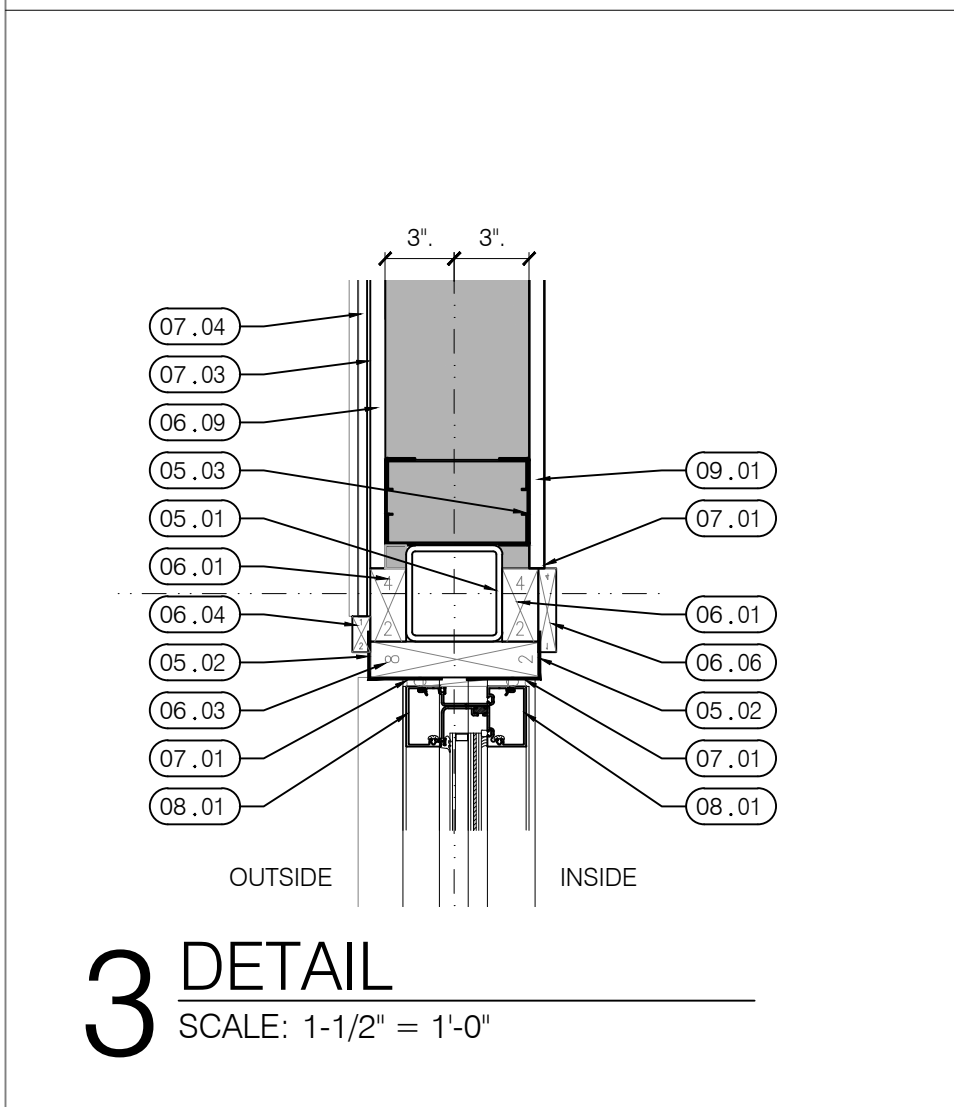


11 DETAIL
SCALE: 3/4" = 1'-0"

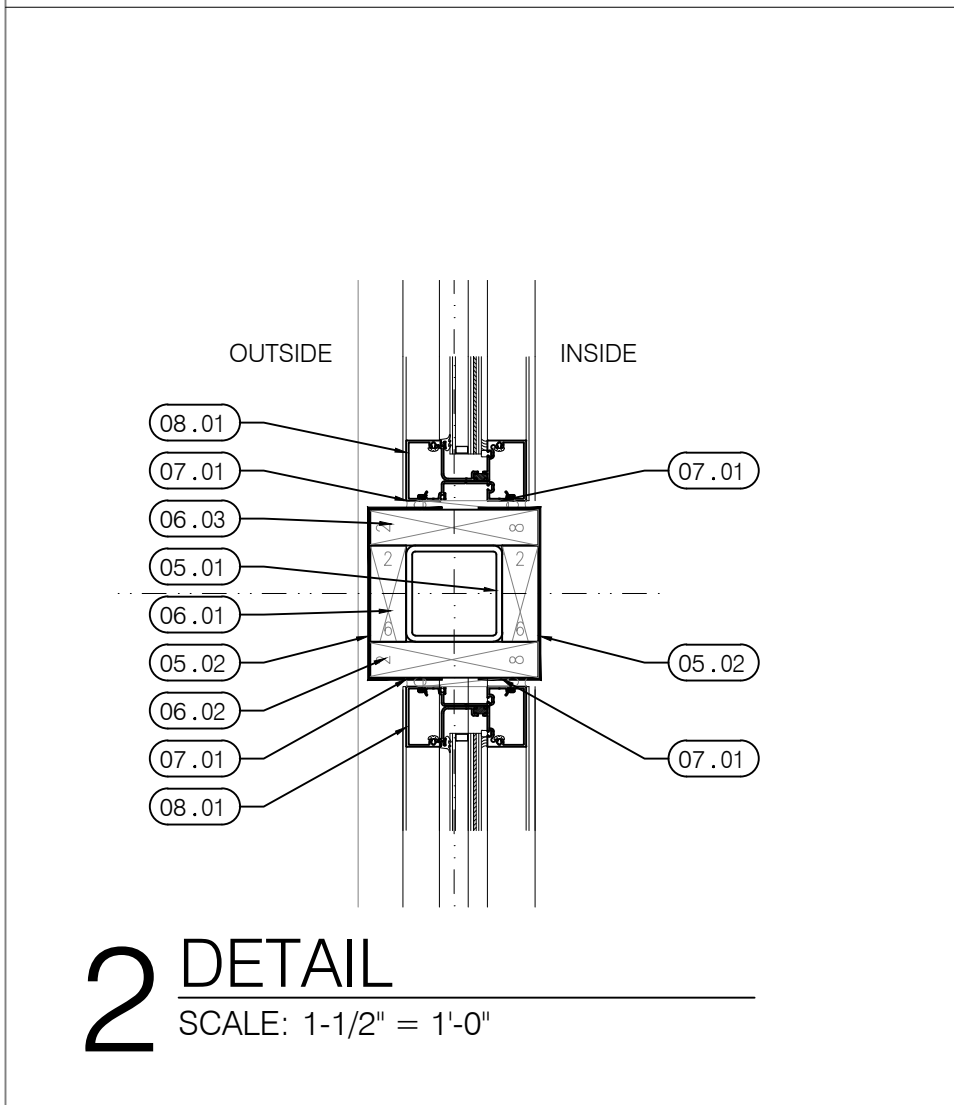
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SCALE: 3/4" = 1'-0"



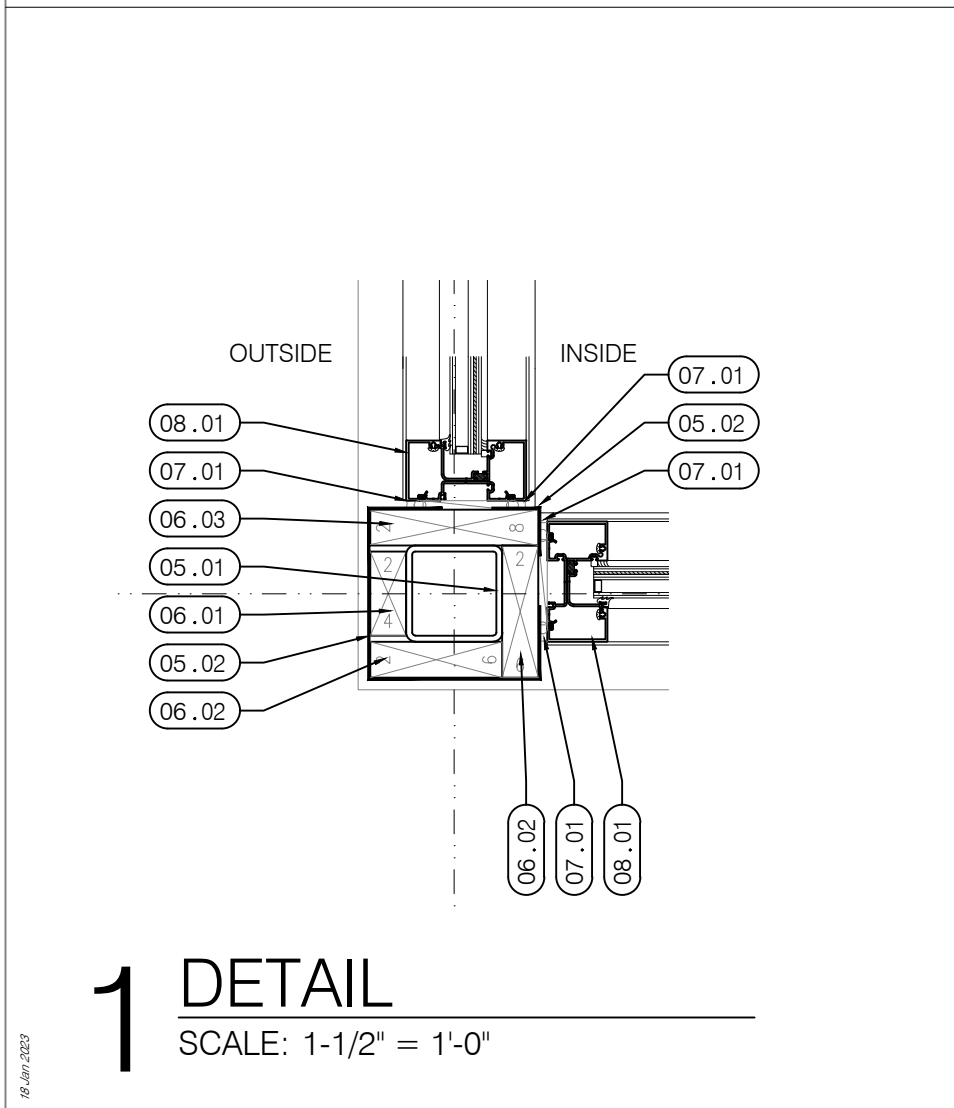
4 DETAIL
SCALE: 1-1/2" = 1'-0"



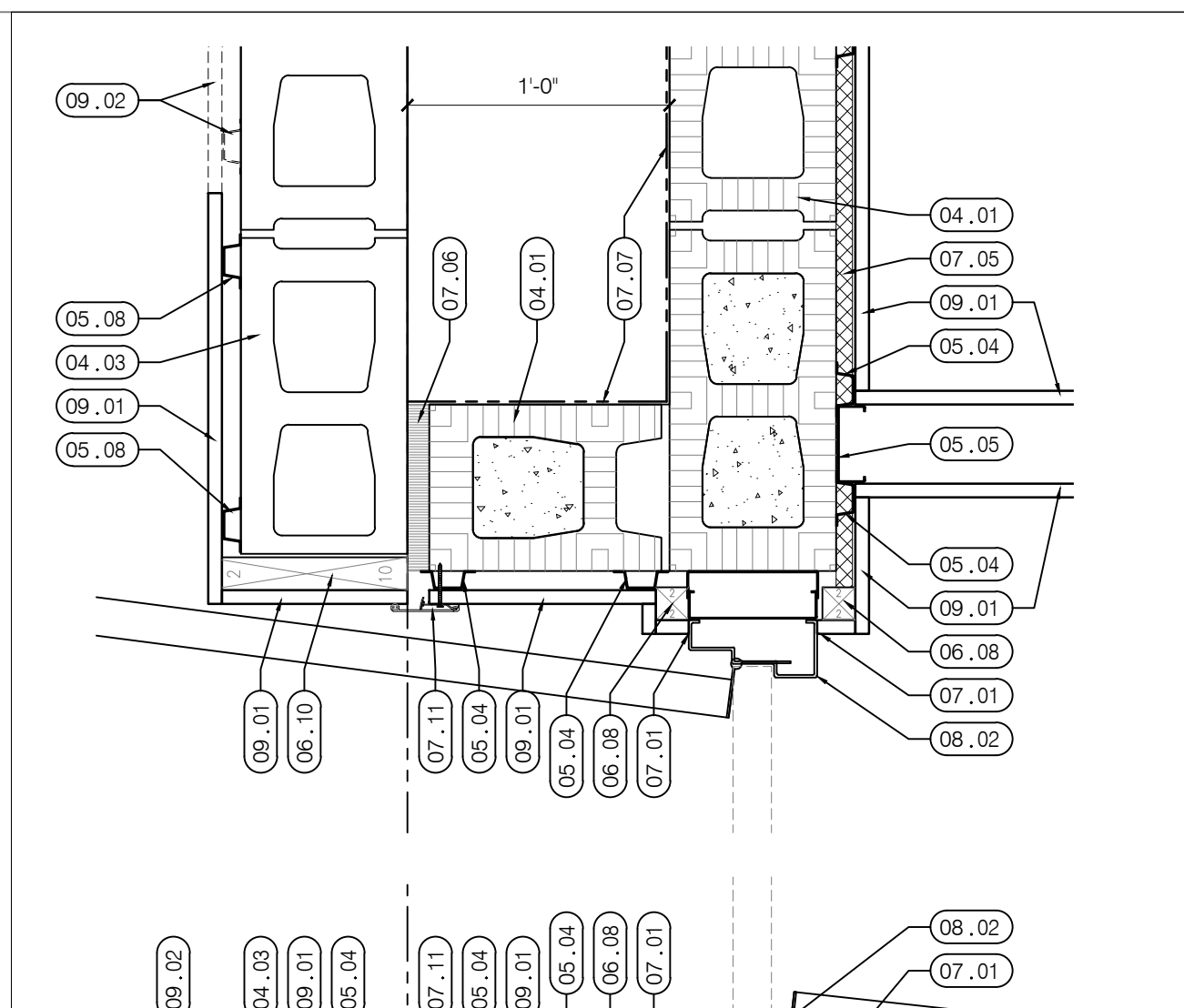
3 DETAIL
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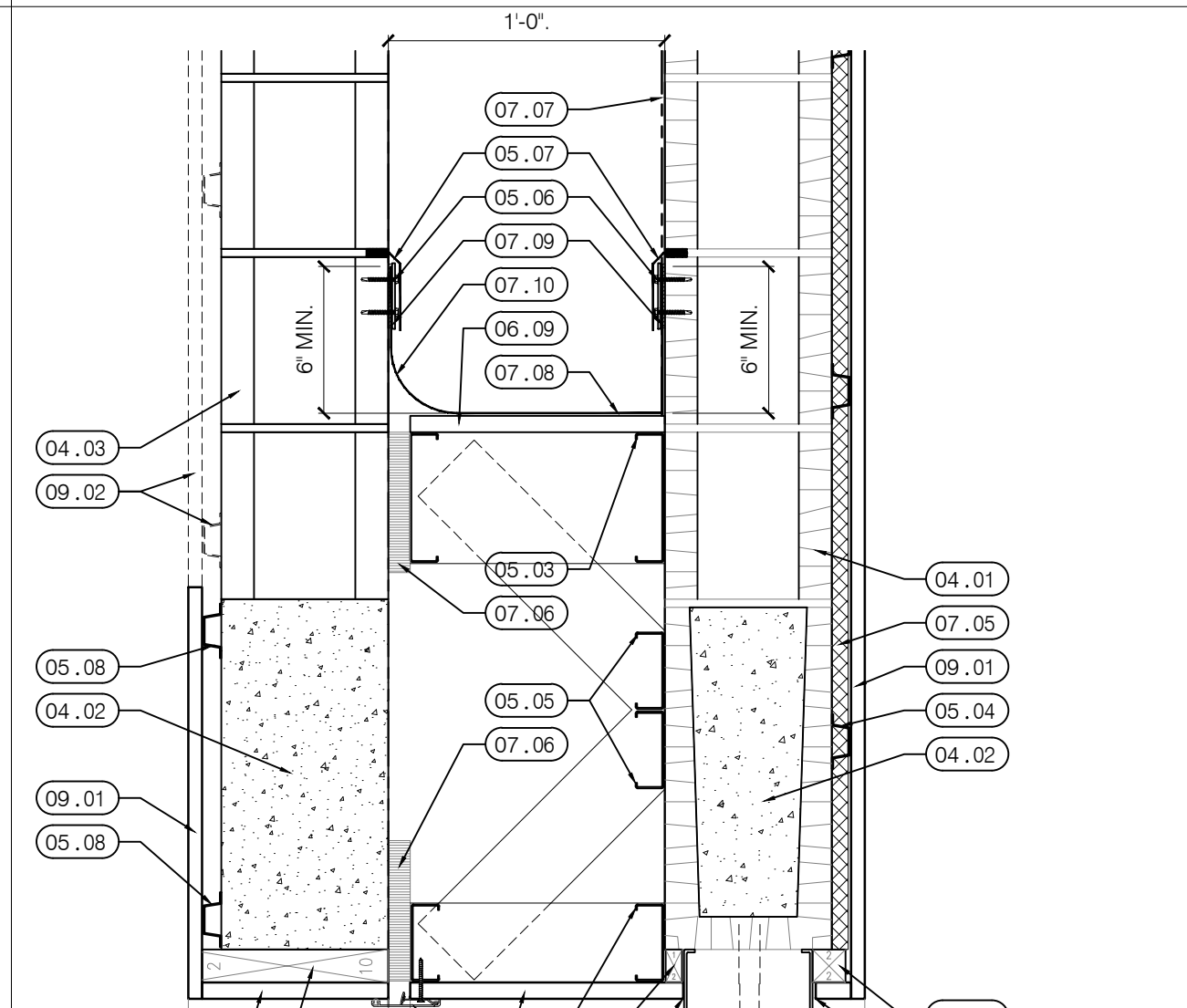
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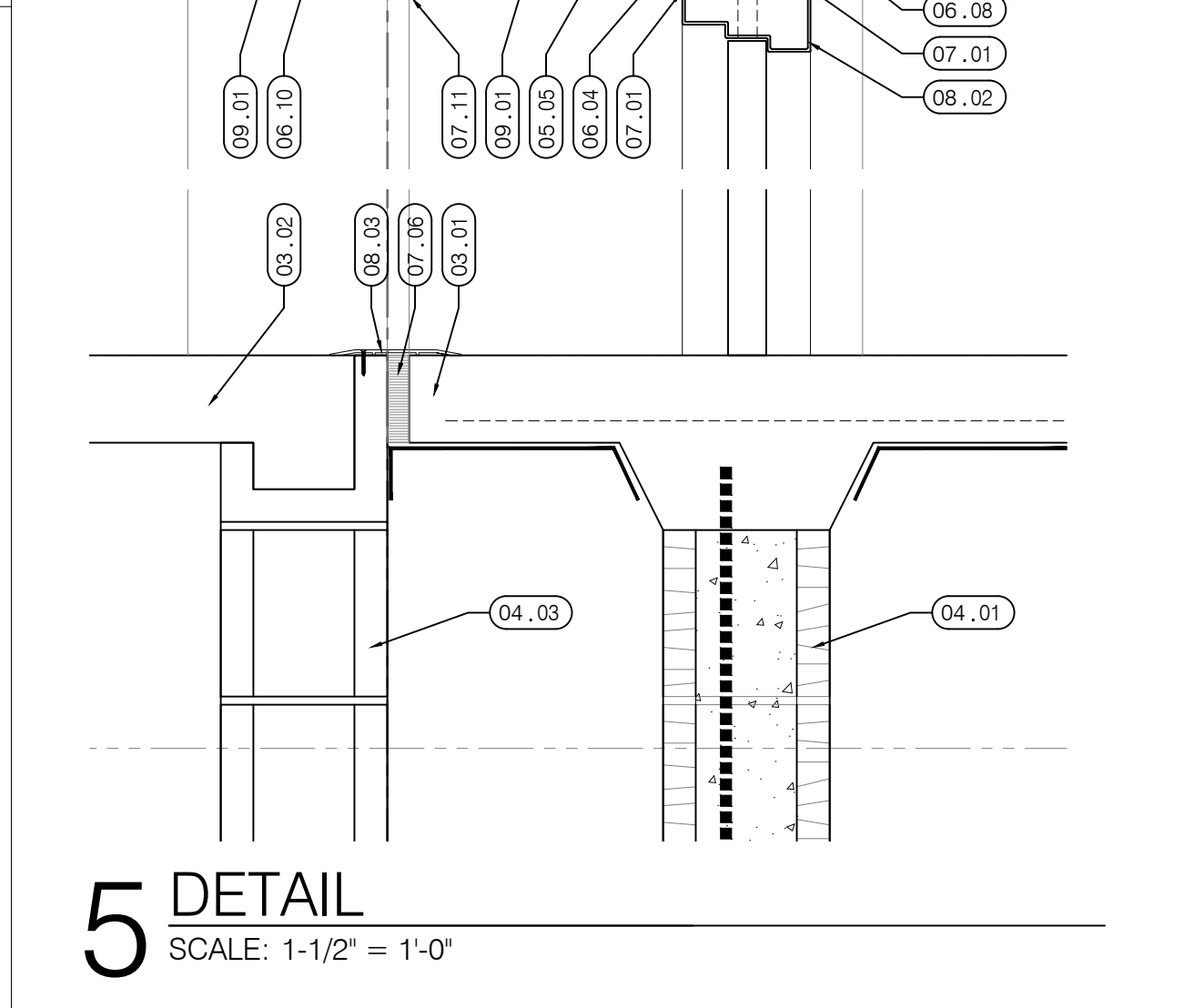
1 DETAIL
SCALE: 1-1/2" = 1'-0"



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



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



- KEYNOTES:** SHEET A4.03 ONLY
- 01 GENERAL:**
01.01 x.
- 03 CONCRETE:**
03.01 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS.
03.02 EXISTING CONCRETE FLOOR SLAB.
- 04 MASONRY:**
04.01 8" CMU, WITH HORIZONTAL JOINT REINFORCING AT ALTERNATE COURSES. SEE STRUCTURAL FOR CONCRETE REINFORCING.
04.02 CONCRETE / CMU LINTEL, SEE STRUCTURAL.
04.03 EXISTING CMU.
- 05 METAL:**
05.01 4" x 4" STEEL TUBE, SEE STRUCTURAL.
05.02 ALUMINUM BRAKE METAL.
05.03 6" GALV. STEEL STUDS, SEE STRUCTURAL FOR GAUGE AND SPACING.
05.04 7/8" GALV. STEEL STUDS FURRING CHANNELS AT 16" O.C. HORIZ.
05.05 3 5/8" GALV. STEEL STUD FRAMING, AT 16" O.C. MAX. CONTINUOUS 3" STAINLESS STEEL FLASHING BAR WITH STAINLESS STEEL FASTENERS AT 8" O.C. SET BAR IN FULL SEALANT BED.
05.07 STAINLESS STEEL COUNTERFLASHING, 6" WIDE MIN. IMBED INTO CMU JOINT 1" MIN. SEAL WITH EPOXY GROUT.
05.08 NEW FURRING TO MATCH EXISTING, WOOD OR METAL.
- 06 WOOD:**
06.01 PRESSURE TREATED 2" x 4", CUT TO SIZE AS REQUIRED.
06.02 PRESSURE TREATED 2" x 6", CUT TO SIZE AS REQUIRED.
06.03 PRESSURE TREATED 2" x 8", CUT TO SIZE AS REQUIRED.
06.04 PRESSURE TREATED 1" x 2".
06.05 PRESSURE TREATED 1" x 4".
06.06 1" x 4" TRIM.
06.07 PLYWOOD SHIMS.
06.08 PRESSURE TREATED 2" x 2", CUT TO SIZE AS REQUIRED.
06.09 5/8" PLYWOOD SHEATHING.
06.10 PRESSURE TREATED 2" x 10", CUT TO SIZE AS REQUIRED.
- 07 THERMAL & MOISTURE PROTECTION:**
07.01 SEALANT (& BACKER ROD).
07.02 R-19, OPEN CELL SPRAY FOAM INSULATION (WALL), EQUAL TO 'ICYNENE'.
07.03 TYVEK STUCCO WRAP OR EQUAL.
07.04 HARDIE-LAP SIDING, SEE DETAILS AND ELEVATIONS FOR LAP SPACING.
07.05 3/4" POLYISOCYANURATE INSULATION BOARD.
07.06 COMPRESSIBLE NEOPRENE JOINT FILLER.
07.07 COAT FACE OF 8" CMU WITH ASPHALTIC EMULSION, TO 15'-0"±.
07.08 FULLY ADHERED TPO MEMBRANE ROOFING SYSTEM.
07.09 FULLY ADHERE TPO MEMBRANE TO BUILDING.
07.10 PROVIDE 'SAC' IN TPO MEMBRANE IN THIS AREA TO PROVIDE FOR EXPANSION.
07.11 EXPANSION COVER PLATE EQUAL TO INPRO COVER PLATE 811-A07-025.
- 08 DOORS & WINDOWS:**
08.01 LARGE MISSILE IMPACT RATED ALUMINUM STOREFRONT GLAZING SYSTEM.
08.02 GALV. STEEL HOLLOW METAL DOOR FRAME.
08.03 5" ALUMINUM SADDLE THRESHOLD, ANCHOR ON ONE SIDE ONLY.
- 09 FINISHES:**
09.01 5/8" TYPE 'X' GYPSUM BOARD.
09.02 EXISTING WALL FINISHES.
- 10 SPECIALTIES:**
10.01 x.
- 11 EQUIPMENT:**
11.01 x.
- 12 FURNISHINGS:**
12.01 x.
- 13 SPECIAL CONSTRUCTION:**
13.01 x.
- 14 CONVEYING SYSTEMS:**
14.01 x.
- 15 MECHANICAL:**
15.01 x.
- 16 ELECTRICAL:**
16.01 x.

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18 Jan 2023 For Bid

SECTIONS & DETAILS

A4.03

**FORT WALTON BEACH
MUSEUM ADDITION**

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EQUIPMENT SCHEDULE												
Ceiling Exhaust Fan											MARK: EF-1	
Qty	Greenheck Model	Volume (CFM)	External SF Total SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information					
							Size (hp)	V/C/P	Encl.	Motor RPM	Windings	FLA
1	SP-B110ES	100	0.125 0.125	583	0.03	12	NA	115/60/1	TA	650	1	NA
OPTIONS AND ACCESSORIES												
UL/cUL 507 Listed - Electric Fan Solid State Speed Control, 6 Amp, Shipped Loose Round Duct Connection Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose Adjustable easy installation mounting bracket Energy Star Certified Standard Grille Aluminum Wheel Material Can Be Used to Comply with: ASHRAE 62.2, California Title 24, and Washington State Energy Code												

EQUIPMENT SCHEDULE												
Ceiling Exhaust Fan											MARK: EF-2	
Qty	Greenheck Model	Volume (CFM)	External SF Total SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information					
							Size (hp)	V/C/P	Encl.	Motor RPM	Windings	FLA
2	SP-A200	200	0.25 0.25	837	0.02	26	NA	115/60/1	OP	900	1	NA
OPTIONS AND ACCESSORIES												
UL/cUL 507 Listed - Electric Fan Solid State Speed Control, 6 Amp, Shipped Loose Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose Adjustable easy installation mounting bracket Energy Star Certified Standard Grille Aluminum Wheel Material Can Be Used to Comply with: ASHRAE 62.2, California Title 24, and Washington State Energy Code												

AIR HANDLER SCHEDULE														
UNIT NO.	AIR CFM	APPROX. S.P./W.G.	FAN H.P.	COOLING ENT AIR TEMP	COOLING LVG TEMP	OUTSIDE AIR CFM	OUTDOOR TEMP-COOLING	ELEC HEAT (208V-3Ø)	MCA	MOCP	VOLT/PHASE	TRANE MODEL NUMBER	WEIGHT (LBS)	REMARKS
AHU-1	3200	1.0	2	77.3°FDB/66.1°FWB	54.9°FDB/54.2°FWB	560	95°FDB/78°FWB	24.94 kW	83.0	90.0	208/1	TWE12043BAA	429	1,2,3,4
AHU-2	1540	0.8	3/4	76.0°FDB/63.6°FWB	55.3°FDB/53.4°FWB	160	95°FDB/77.7°FWB	9.60 kW	52.0	60.0	208/1	TEMA6A0CC48H41SA	174.0	1,2,3,4
REMARKS														
1. PROVIDE DRAIN PAN WITH FLOAT SWITCH UNDER AIR HANDLING UNIT. 2. HEATER SHALL BE EQUIPPED WITH MINIMUM 2-STAGE HEATING ELEMENTS. 3. UNIT SHALL HAVE DUAL CIRCUIT EVAPORATOR COIL FOR STAGING. 4. UNIT SHALL BE PROVIDED WITH DEHUMIDIFICATION CYCLE AND TWO SPEED FAN.														

HEAT PUMP SCHEDULE															
UNIT NO.	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	EER	OUTDOOR TEMP-COOLING	TOTAL HEATING (MBH)	HSPF	COP	OUTDOOR TEMP-HEATING	FLA	MCA	MOCP	VOLT/PHASE	TRANE MODEL NUMBER	REMARKS
HP-1	113.9	77.4	36.5	12.6	95°FDB/78°FWB	85.2	-	3.3	33.5°FDB/23.0°FWB	20.8	41	50	208-230/1	TWA12043DAA	1,2,3,4
HP-2	45.1	34.1	11.0	12.5	95°FDB/77.7°FWB	33.5	9.25	4.1	33.5°FDB/23.0°FWB	22.2	28	45	208-230/1	4TWR7048	1,2,3,4
REMARKS															
1. UNIT SHALL BE EQUIPPED WITH A DIGITAL THERMOSTAT. 2. UNIT SHALL BE EQUIPPED WITH AN ADJUSTABLE OUTDOOR AIR THERMOSTAT. 3. UNIT SHALL BE EQUIPPED WITH ANTI-SHORT-CYCLE TIMER AND TXV VALVE. 4. UNIT SHALL HAVE LOW AMBIENT COOLING CAPACITY AND EVAPORATOR DEFROST CONTROL. UNIT SHALL BE TWO STAGE COOLING AND TWO STAGE HEATING.															

- GENERAL MECHANICAL NOTES
- FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL SYSTEM. DUE TO THE SCHEMATIC NATURE OF THESE PLANS, THE CONTRACTOR SHALL FIELD-VERIFY LOCATIONS FOR EQUIPMENT DUCTWORK, AND ACCESSORIES. IN ADDITION, THIS WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. THE CONTRACTOR SHALL ALSO REVIEW THE STRUCTURAL DRAWINGS BEFORE FABRICATING AND INSTALLING DUCTWORK OR EQUIPMENT.
 - ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCED WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
 - ALL MATERIALS SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - DUCT SIZES ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DUCT SHALL BE OF LOW-PRESSURE (2.0" w.g.) CONSTRUCTION AS CLASSIFIED BY SMACNA UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL USE MINIMUM 2" EXTERNAL WRAP (MINIMUM R-6.0). LINER MAY ONLY BE USED WHERE REQUIRED FOR SOUND ATTENUATION. DUCTBOARD SHALL NOT BE USED.
 - FLEXIBLE DUCT MAY BE INSTALLED ONLY WHERE SHOWN ON THE DRAWINGS. DUCT SHALL BE EXTERNALLY-INSULATED CORRUGATED METAL WITH A MAXIMUM LENGTH OF 6'-0". FOR TAKE-OFFS LONGER THAN 6'-0", THE REMAINDER OF THE DISTANCE SHALL BE EXTERNALLY-WRAPPED SINGLE-WALL ROUND DUCT WITH A SPIN-IN STYLE TAP AT THE MAIN DUCT.
 - HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK. ALL RETURN AND EXHAUST GRILLES SHALL HAVE OPPOSED-BLADE DAMPERS. ALL SUPPLY-SIDE TAKE-OFFS SHALL HAVE A BALANCING DAMPER.
 - FIRE DAMPERS AND FIRE-STOPPING SHALL BE PROVIDED FOR ANY PENETRATIONS OF FIRE-RATED PARTITIONS. VERIFY LOCATIONS OF ALL FIRE-STOPPING ON THE ARCHITECTURAL DRAWINGS.
 - ALL GRILLES AND REGISTERS SHALL BE EQUAL TO TITUS WITH ALUMINUM CONSTRUCTION. SUPPLY GRILLES SHALL BE EQUAL TO MODEL TDC. SUPPLY REGISTERS SHALL BE EQUAL TO MODEL 301. RETURN, EXHAUST AND TRANSFER GRILLES SHALL BE EQUAL TO MODEL 355 WITH OPPOSED-BLADE DAMPERS. GRILLE FINISH SHALL BE APPROVED BY THE OWNER AND THE ARCHITECT.
 - EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE ABLE TO PROVIDE THE REQUIRED CAPACITIES IN THE MIDDLE OF ITS PERFORMANCE RANGE. ALL COMPRESSORS SHALL HAVE A MINIMUM 5-YEAR WARRANTY UNLESS OTHERWISE NOTED. THE EQUIPMENT SHALL HAVE ALL THE NECESSARY CONTROLS AND ACCESSORIES TO ALLOW FOR FULL OPERATION. IF EQUIPMENT HAS COMPONENTS OF A VIBRATIVE NATURE, THE CONTRACTOR SHALL PROVIDE THE NECESSARY VIBRATION CONTROLS.
 - REFRIGERANT PIPING SHALL BE HARD-DRAWN TYPE K OR L COPPER WITH COPPER SOLDER FITTINGS. PIPING SHALL BE SOLDERED WITH SILVER SOLDER AND INSULATED WITH 1/2" THICK THERMAL TUBULAR JACKETING. SEAL INSULATION JOINTS WITH TAPE AND CEMENT OR PER MANUFACTURER'S INSTRUCTIONS. PRE-INSULATED AND PRE-CHARGED REFRIGERANT LINES MAY BE USED AS PROVIDED BY THE EQUIPMENT MANUFACTURER. WHERE INSULATION IS EXPOSED TO WEATHER PROTECT LINES WITH AN ALUMINUM COVER AND PAINT TO MATCH EXTERIOR FINISH.
 - CONDENSATE DRAINS SHALL BE FULL-SIZE (1" MINIMUM) COPPER OR SCHEDULE 40 PVC. DRAINS SHALL BE INSULATED IN THE SAME MANNER AS REFRIGERANT LINES. DISCHARGE AS SHOWN ON THE DRAWINGS.
 - CONTROLS SHALL BE EQUAL TO MANUFACTURER'S CONTROLS. OUTDOOR UNITS SHALL HAVE FACTORY-WIRED TIME DELAYS, PRESSURE SWITCHES, LOW-AMBIENT CONTROLS AND DEFROST CONTROLS. THERMOSTATS SHALL BE DIGITAL AND PROGRAMMABLE WITH BATTERY BACK-UP. SETPOINTS SHALL FOLLOW DESIGN CONDITIONS OR BE AS DIRECTED BY THE OWNER. MOUNT ALL THERMOSTATS AND TEMPERATURE SENSORS 60" A.F.F.
 - THE HVAC SYSTEM SHALL BE TESTED AND BALANCED ACCORDING TO AABC STANDARDS. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A COPY OF THE TEST AND BALANCE REPORT AND THE OWNER WITH A LETTER STATING THAT THE SYSTEM(S) HAVE BEEN BALANCED TO WITHIN 10% OF DESIGN PARAMETERS.

MECHANICAL LEGEND	
MARK	DESCRIPTION
CFM	CUBIC FEET PER MINUTE
HP	HEAT PUMP
SD	SUPPLY CEILING DIFFUSER (TITUS 300F)
RG	RETURN GRILLE (TITUS 350F)
TG	TRANSFER GRILLE (TITUS 350F)
OA	OUTSIDE AIR
→	SUPPLY AIR
↔	AUTOMATIC DAMPER (24 VOLT)
↔	RETURN OR EXHAUST AIR
⊙	THERMOSTAT/SENSOR
⊙	SMOKE DETECTOR
FD	FIRE DAMPER
↔	TURNING VANES IN DUCT
↔	MANUAL VOLUME DAMPER
↔	SUPPLY DIFFUSER (TITUS TDCA-AAA)
↔	SUPPLY OR OUTSIDE AIR DUCT IN SECTION
↔	EXISTING DUCTWORK
↔	SUPPLY AIR DUCTWORK
↔	EXHAUST AIR DUCTWORK
↔	RETURN AIR DUCTWORK
↔	OUTSIDE AIR DUCTWORK
↔	RETURN REGISTER (TITUS 25FL)

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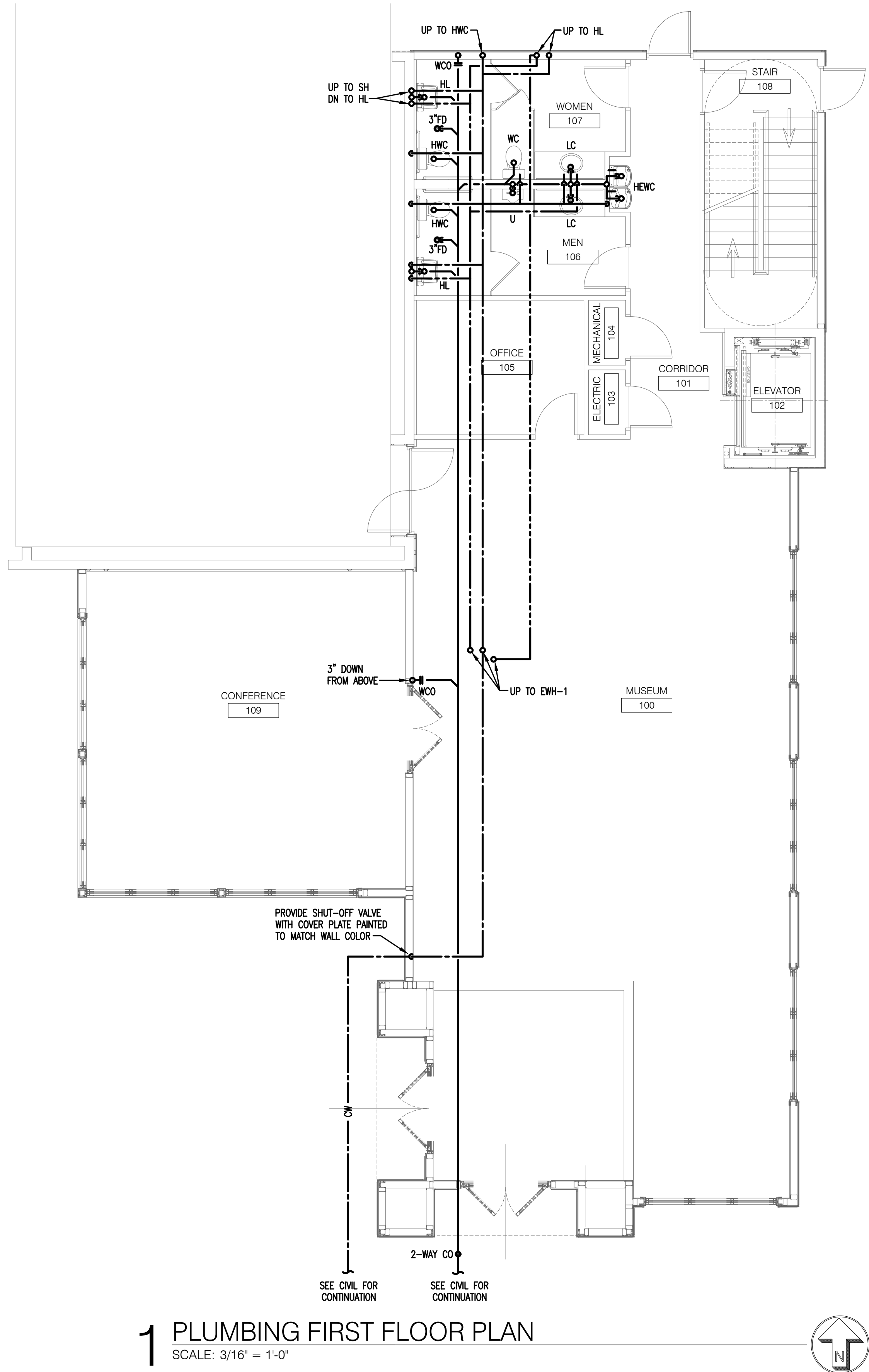
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850.215.4068V 850.215.4069F

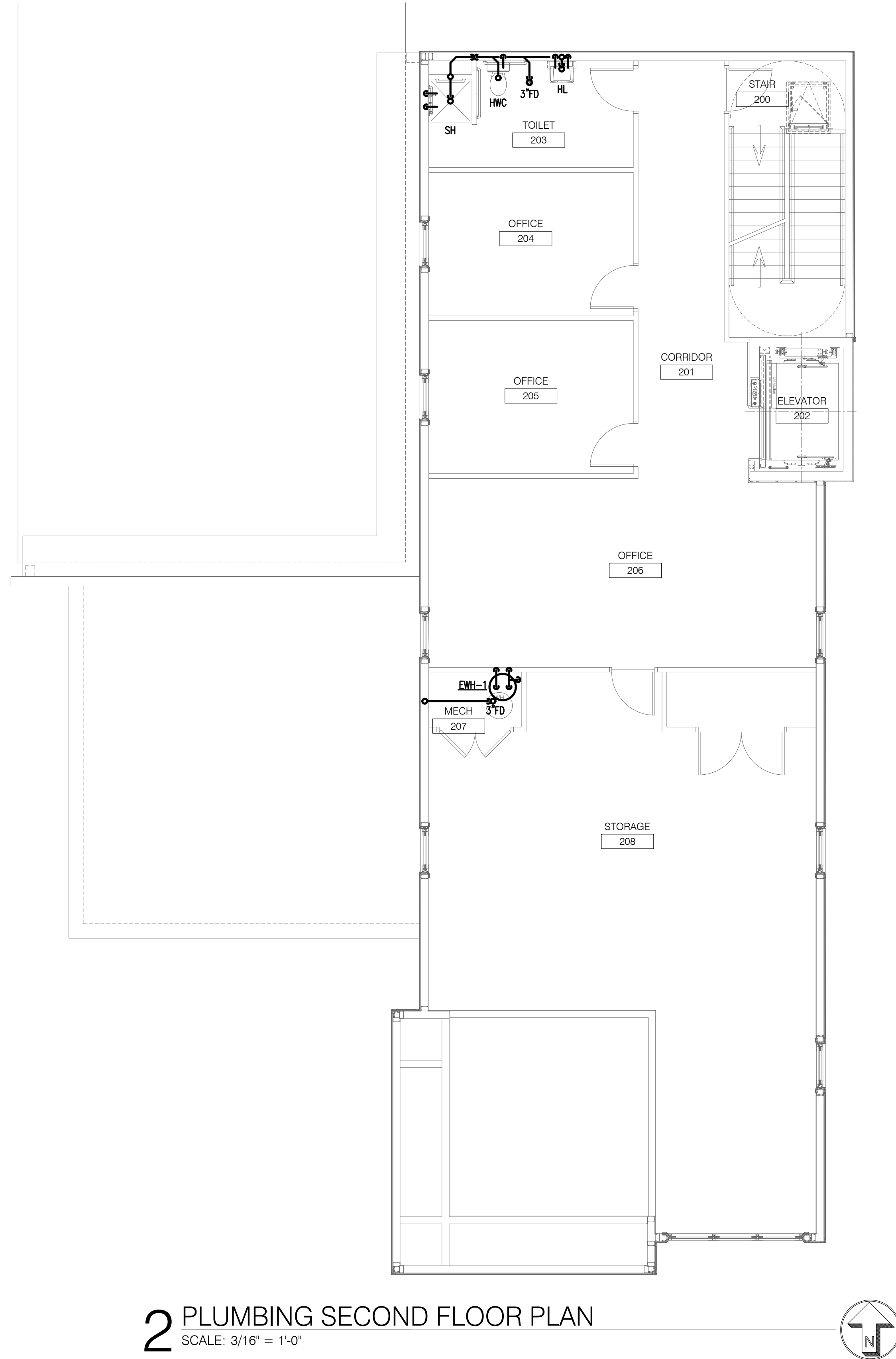
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1 PLUMBING FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



2 PLUMBING SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

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DATE: 28 AUG 2022

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PROJECT NO:	2119
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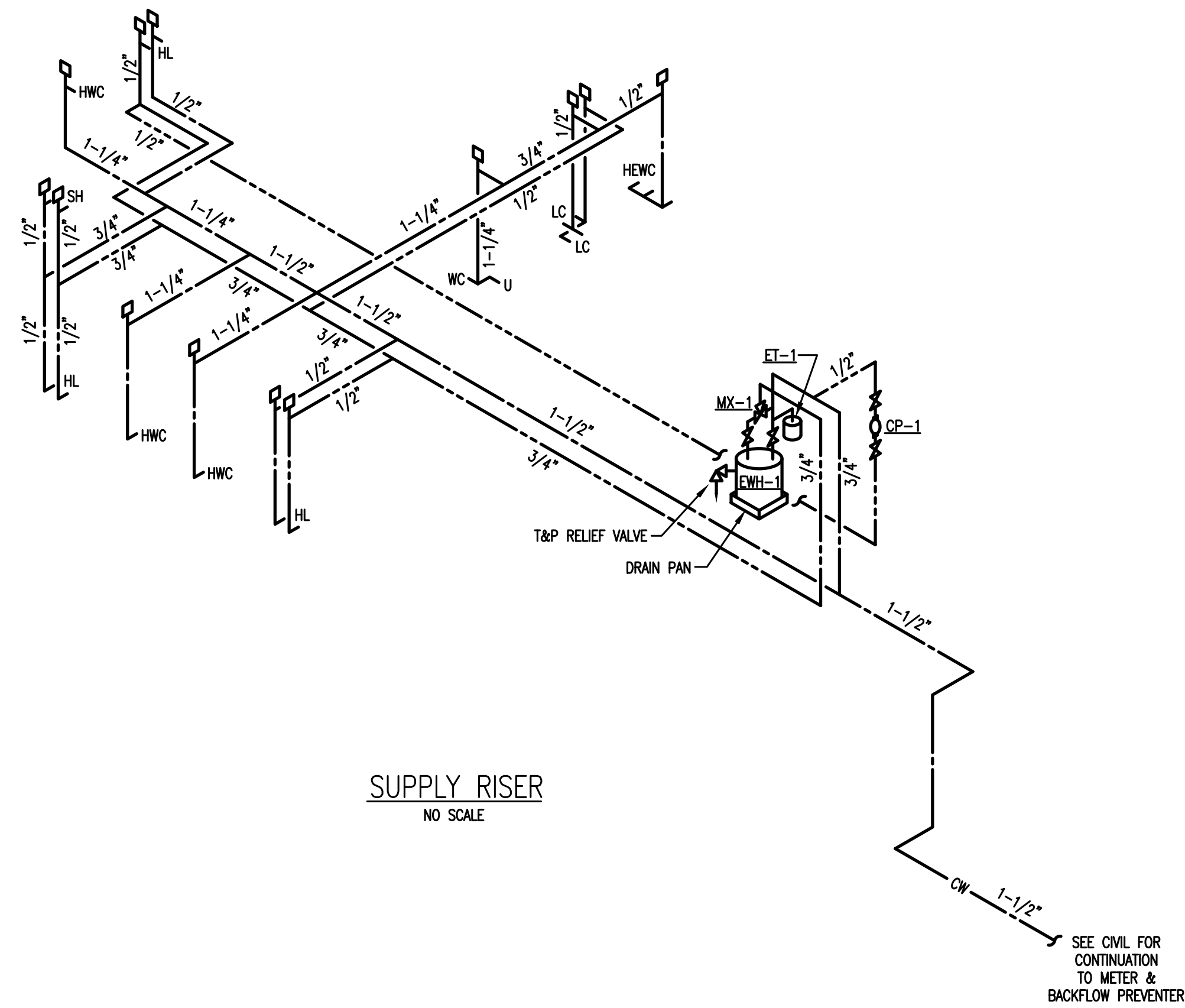
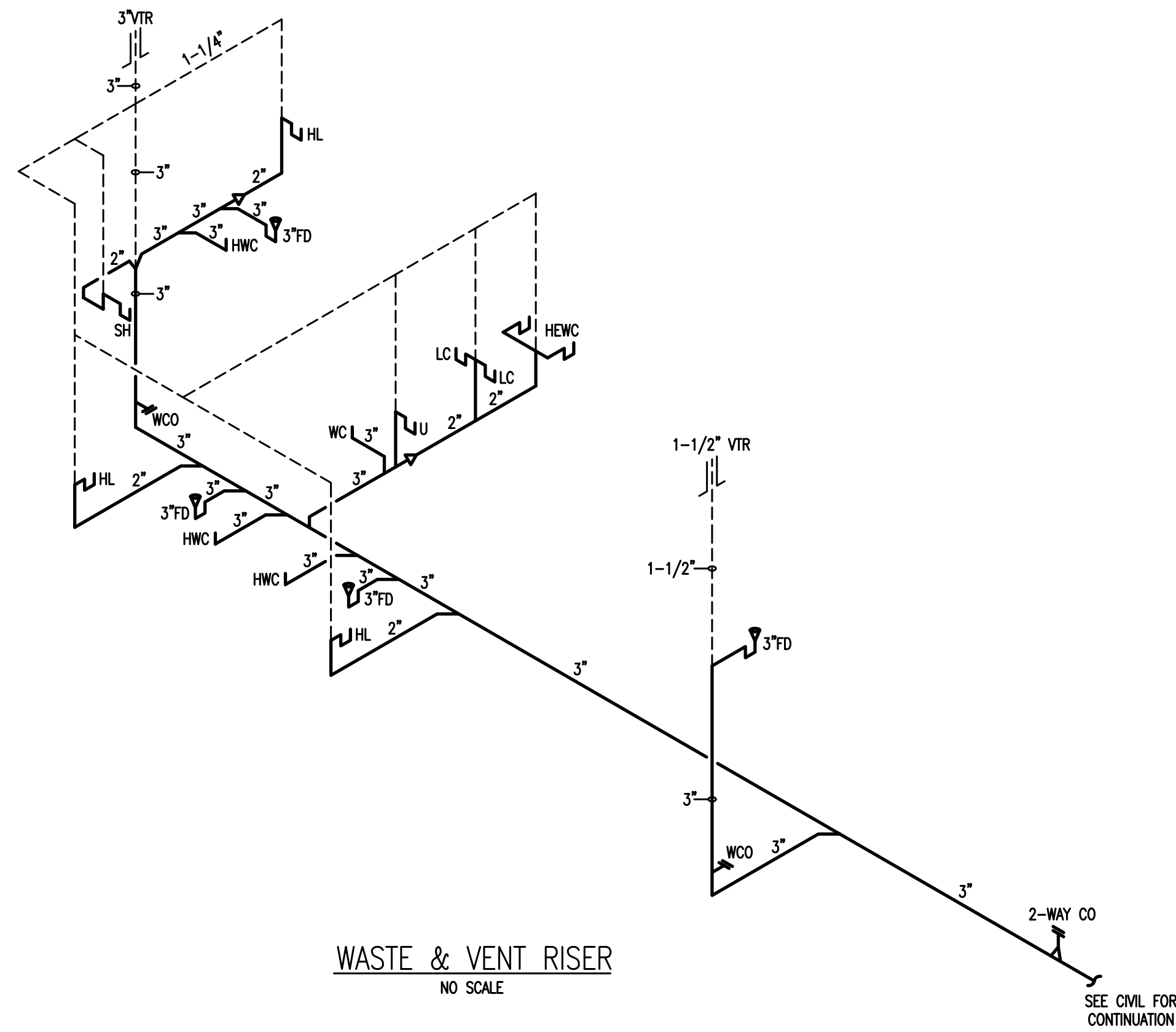
PLUMBING FLOOR PLANS

P1.10

FORT WALTON BEACH MUSEUM ADDITION

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Fort Walton Beach, FL

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- GENERAL PLUMBING NOTES**
- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NEEDED TO PROVIDE A COMPLETE PLUMBING SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, WATER PIPING, WASTE AND VENT PIPING, AND ALL NECESSARY VALVES, TRAPS, AND ACCESSORIES.
 - ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCE WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
 - ROUGH-INS SHALL BE MADE FROM ARCHITECTURAL DRAWINGS AND FIELD VERIFICATION, NOT FROM PLUMBING DRAWINGS AS THEY ARE ONLY SCHEMATIC. THIS CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND TAPS, AND FOR CHECKING ALL ELEVATIONS, GRADES, AND INVERTS BEFORE THE START OF CONSTRUCTION. IF UNSATISFACTORY CONDITIONS EXIST, NOTIFY THE ARCHITECT IMMEDIATELY.
 - THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS TO AVOID CONFLICTS WITH OTHER TRADES. MAKE DEVIATIONS AS NECESSARY FROM THE WORK SHOWN ON THE DRAWINGS TO ENSURE THE WORK FITS THE SPACE(S) PROVIDED. NOTIFY THE ARCHITECT OF ALL NECESSARY DEVIATIONS.
 - IF NEW CONNECTIONS REQUIRE INTERRUPTION OF EXISTING SERVICES, ALL PREPARATORY WORK SHALL BE COMPLETED EARLY TO MINIMIZE TIME. WHERE POSSIBLE, PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN UTILITY SERVICE.
 - ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST.
 - ALL SANITARY AND VENT LINES SHALL BE HUBLESS CAST IRON PIPE CISP1 310-78 STANDARD WEIGHT WITH SPIGOT ENDS FOR COUPLING. HUBLESS CAST IRON JOINTS TO BE CISP1 310 STAINLESS STEEL SHIELD OVER ONE PIECE NEOPRENE SLEEVE. THIS CONTRACTOR MAY USE PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2865 WHERE ALLOWED BY CODE.
 - ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATER-TIGHT IN A MANNER APPROVED BY THE MANUFACTURER OF THE ROOFING MATERIAL AND COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
 - PROVIDE CLEANOUTS WHERE INDICATED ON PLANS AND AS NECESSARY TO COMPLY WITH THE STANDARD PLUMBING CODE. ALL CLEANOUTS SHALL BE IN ACCESSIBLE LOCATIONS.
 - INSULATE ALL DOMESTIC WATER PIPING ABOVE GRADE WITH 3/4\"/>

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SANITARY	C.W.	H.W.
HWC	WATER CLOSET, FLOOR, FLUSH VALVE, ADA COMPLIANT	3"	1-1/4"	-
WC	WATER CLOSET, FLOOR, FLUSH VALVE	3"	1-1/4"	-
U	URINAL	2"	3/4"	-
HL	LAVATORY, WALL HUNG, ADA COMPLIANT	1 1/4"	1/2"	1/2"
LC	LAVATORY, COUNTERTOP	1 1/4"	1/2"	1/2"
SH	SHOWER	2"	1/2"	1/2"
HEWC	ELECTRIC WATER COOLER, ADA COMPLIANT	1 1/4"	1/2"	-
FD	FLOOR DRAIN W/ TRAP PRIMER AND TRAP GUARD	3"	1/2"	-
EWH-1	ELECTRIC WATER HEATER, 50 GALLON, 4.5 KW ELEMENTS, 3 YR. WAR. EQUAL TO AO SMITH DENS0	T&P	3/4"	3/4"
CP-1	CIRCULATION PUMP, 3 GPM, 20' HEAD, 115V, 1/6 HP, EQUAL TO BELL & GOSSETT MODEL PL-45			
ET-1	EXPANSION TANK, 2.1 GALLON, 1.48 GALLON TANK ACCEPTANCE, 150 PSI MAXIMUM PRESSURE, EQUAL TO WATTS PLT-5			
MX-1	MIXING VALVE, MAX 5 PSI PRESSURE DROP, MINIMUM 1.0 GPM FLOW, 26 GPM MAX FLOW, EQ. LEONARD VALVE TM-26-LF			

PLUMBING LEGEND

	SOIL OR WASTE LINE
	VENT
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER RETURN (HWR)
	COLD WATER (EXTERIOR)
	GATE VALVE
	T & P RELIEF VALVE
	WALL CLEANOUT
	FLOOR CLEANOUT
	SHOCK ABSORBER
	VENT THRU ROOF

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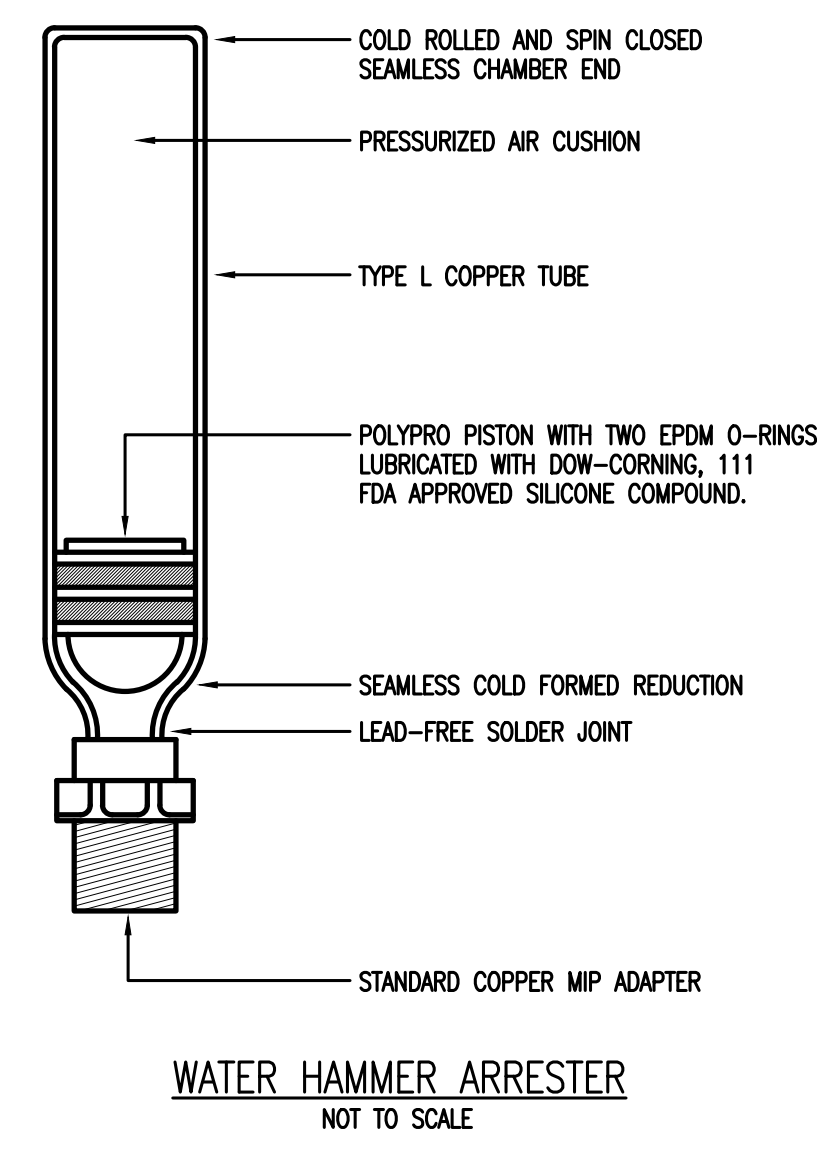
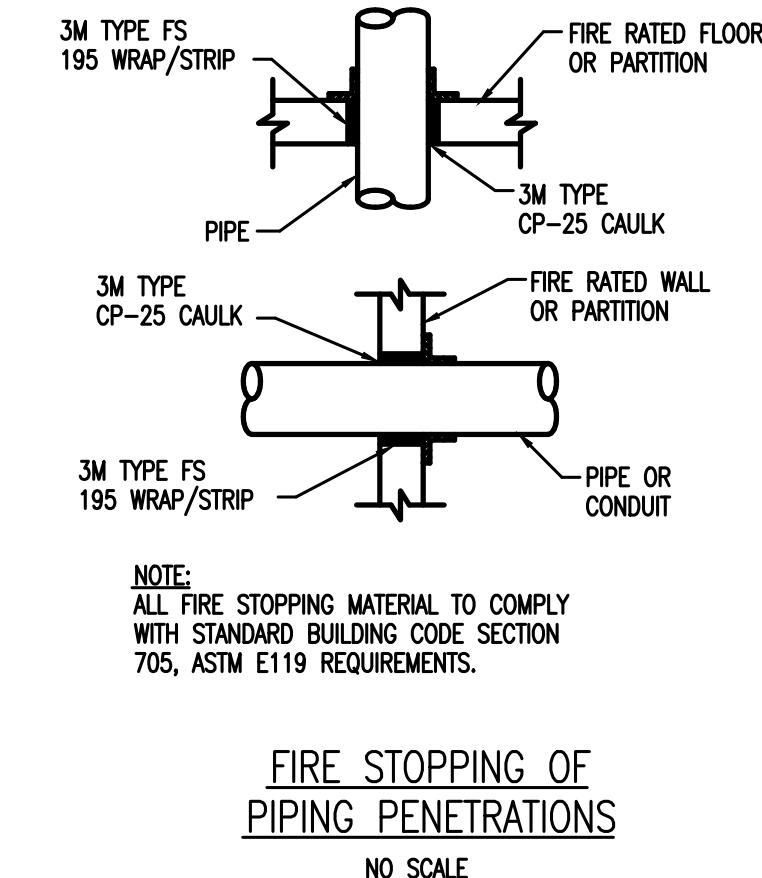
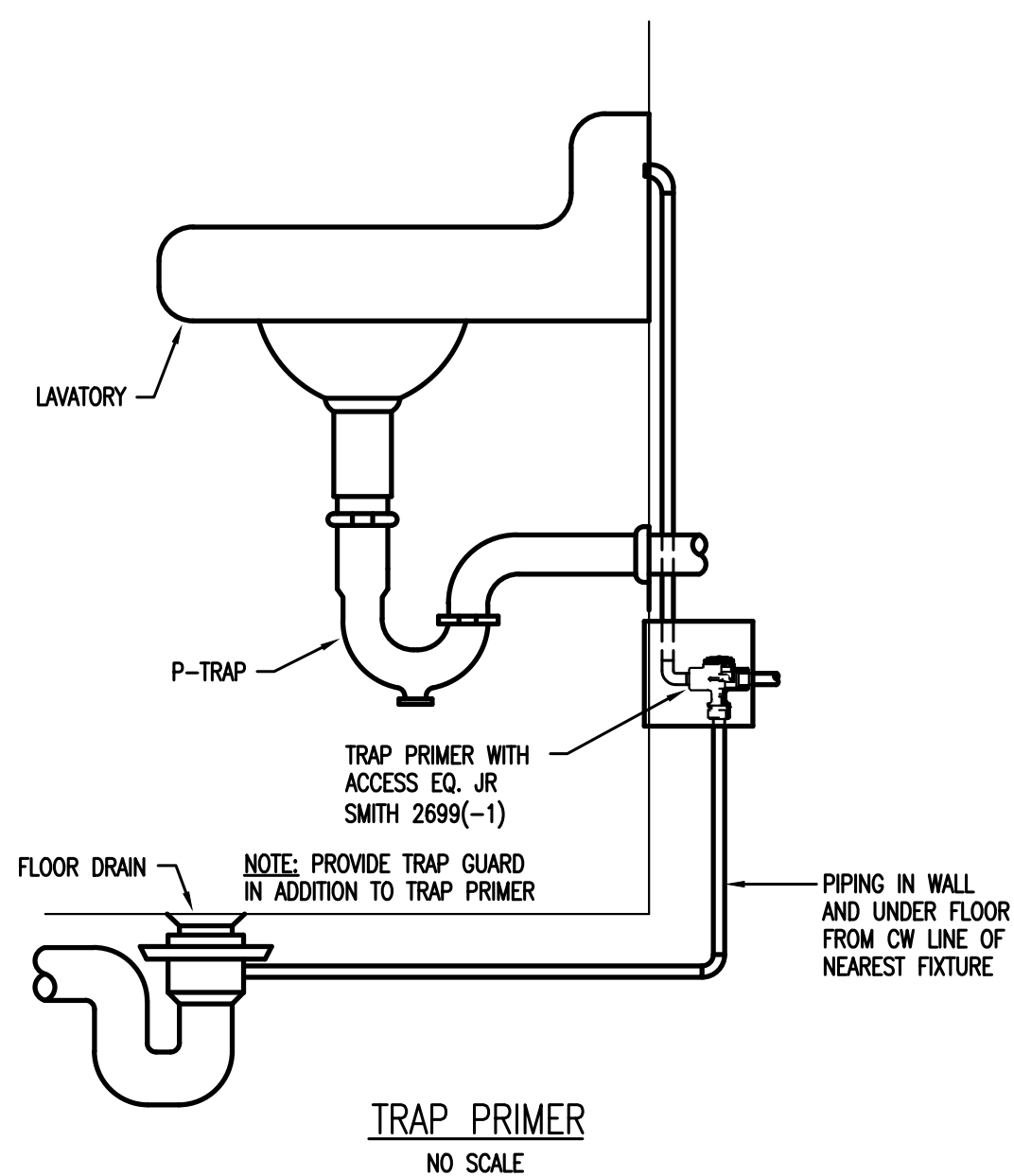
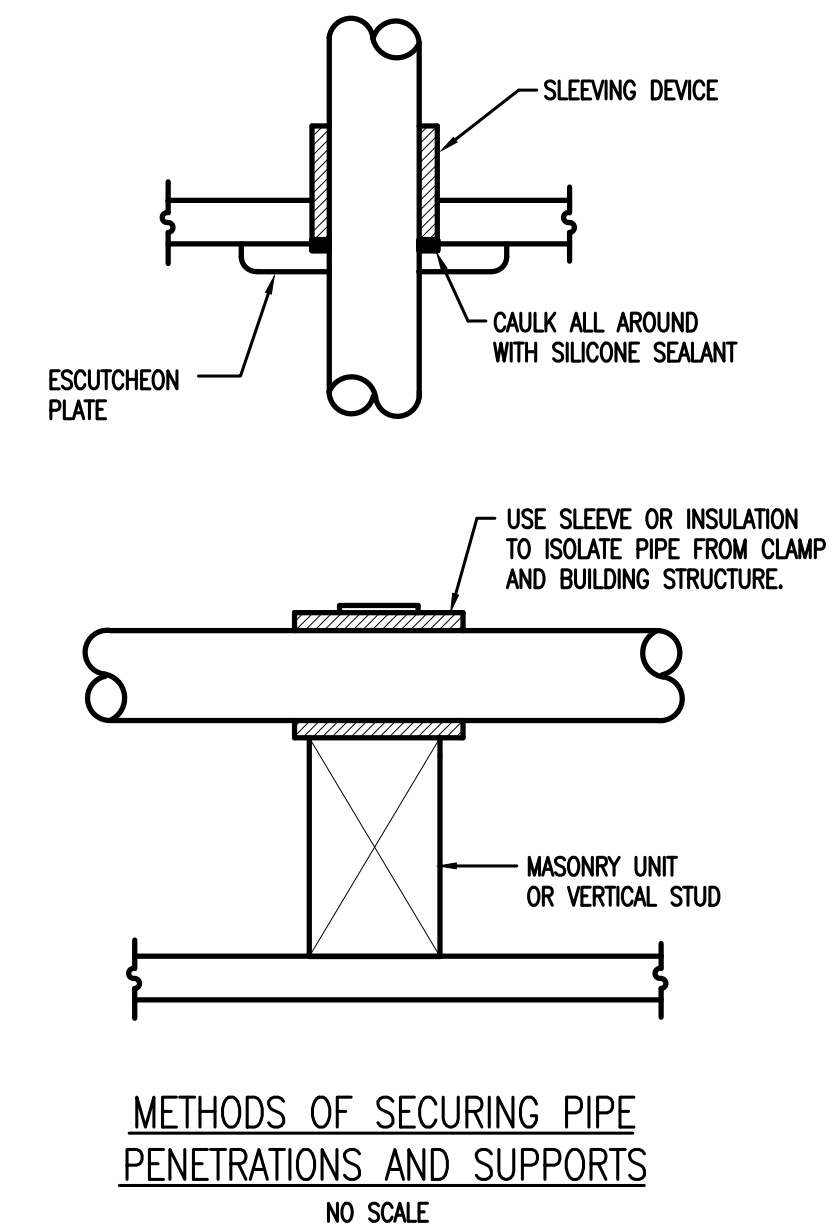
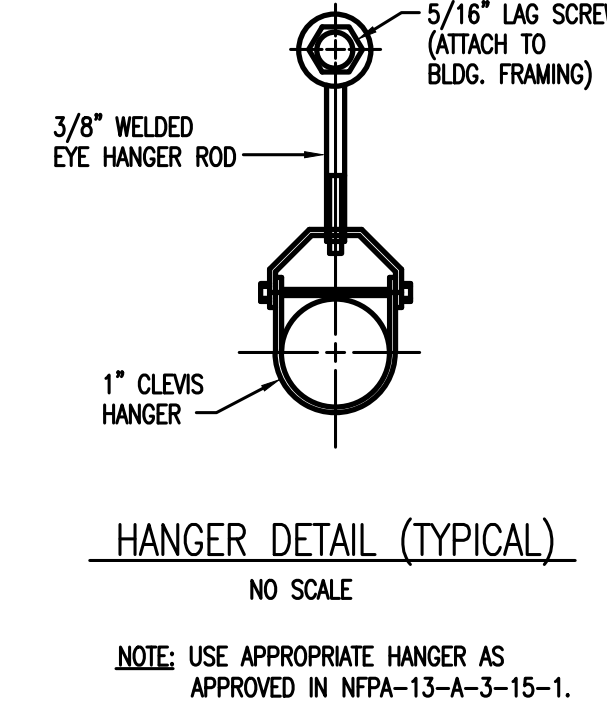
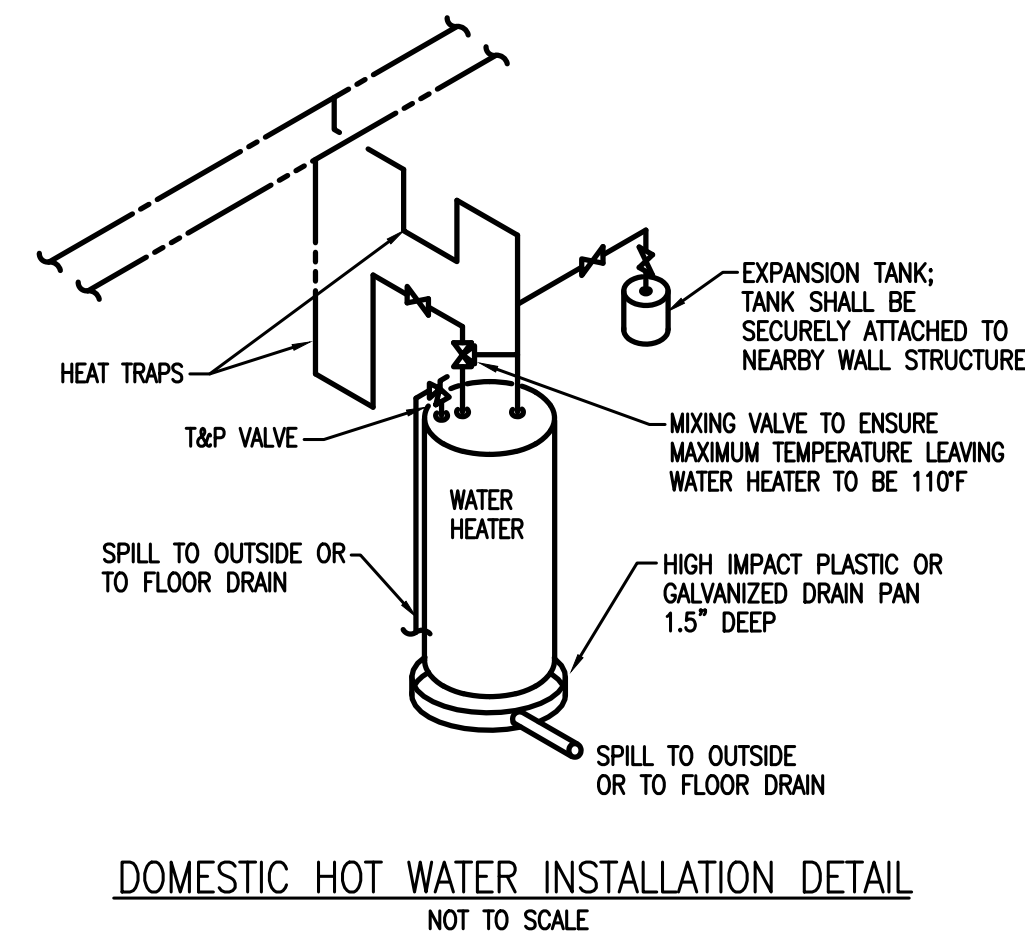
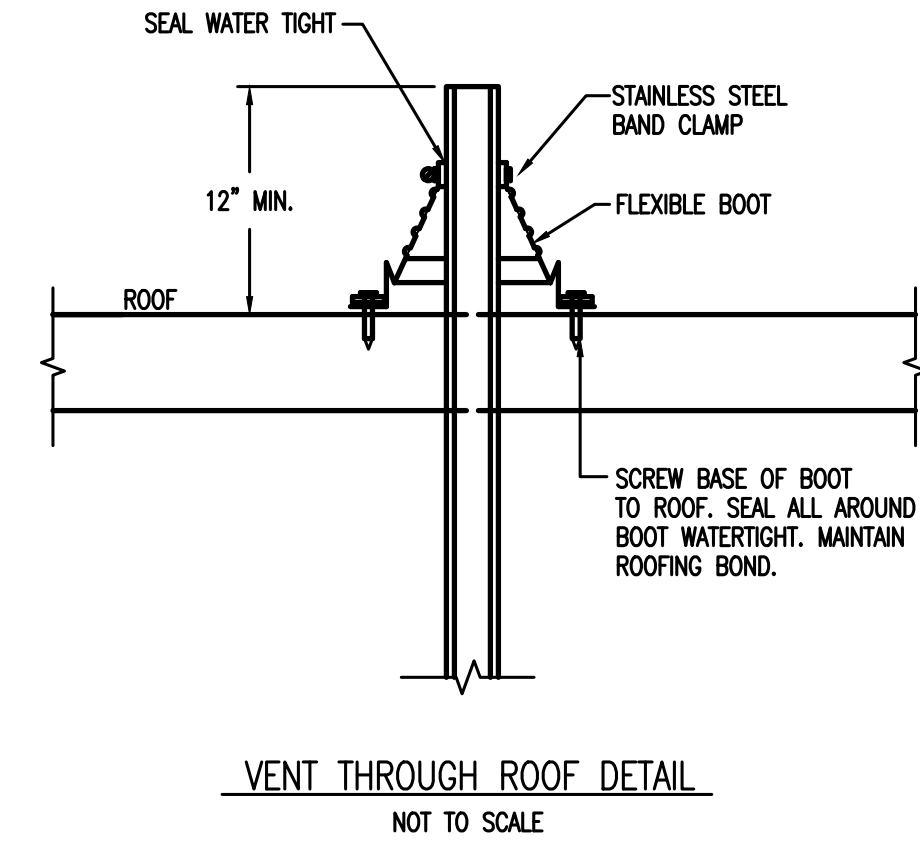
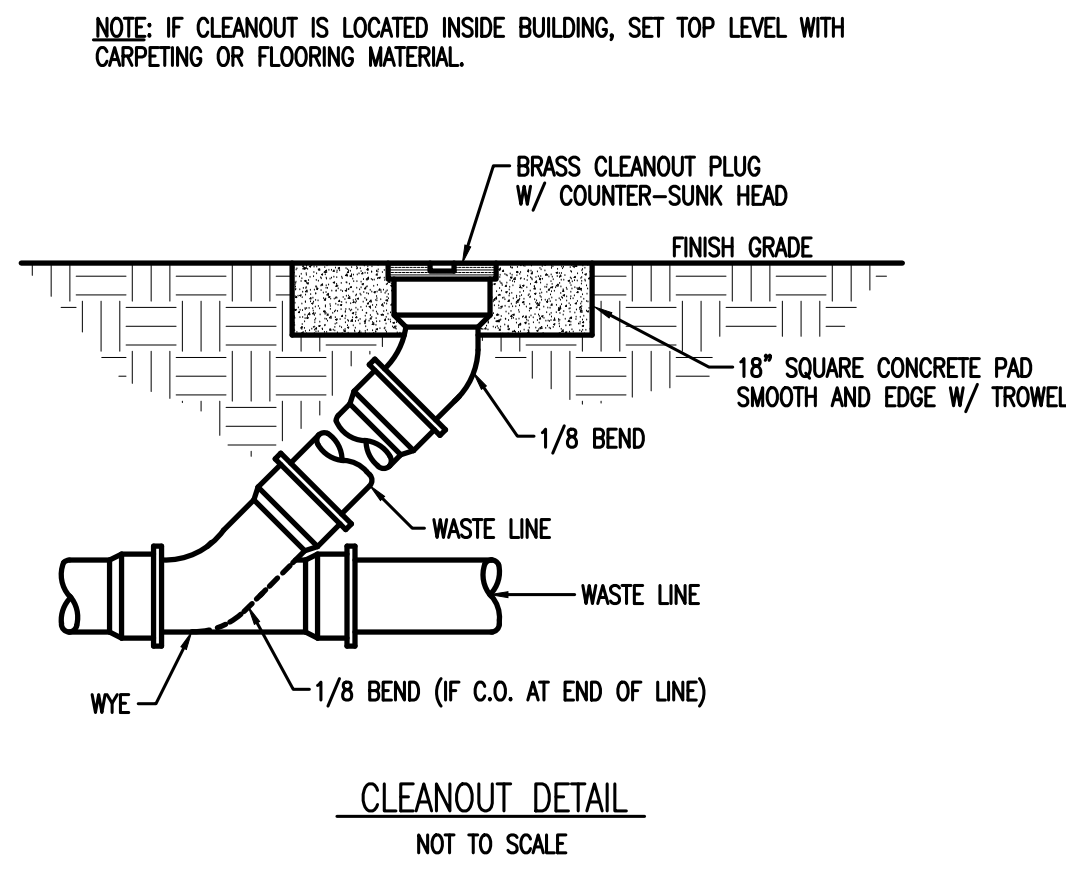
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PLUMBING DETAILS

P2.11

FORT WALTON BEACH
MUSEUM ADDITION

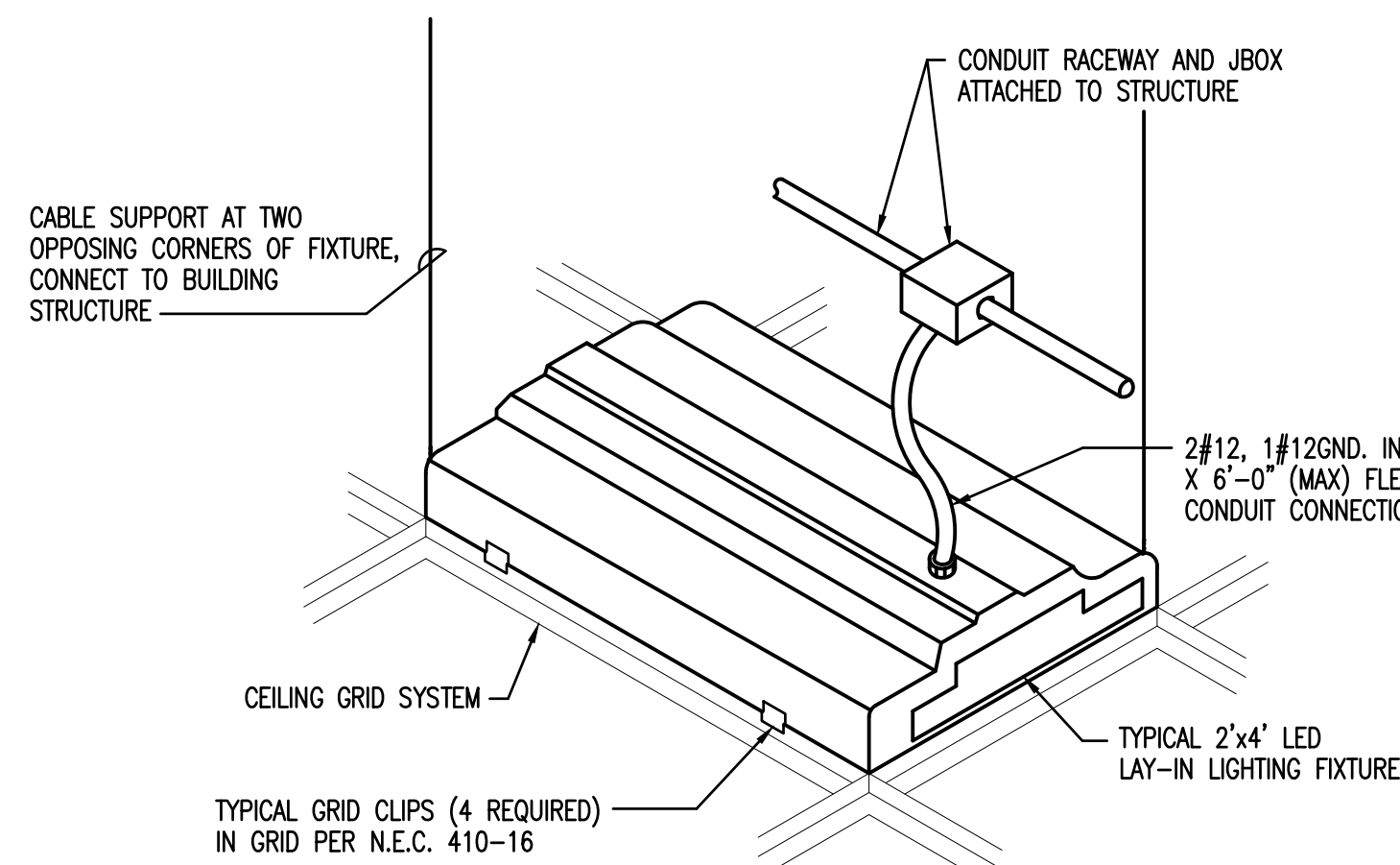
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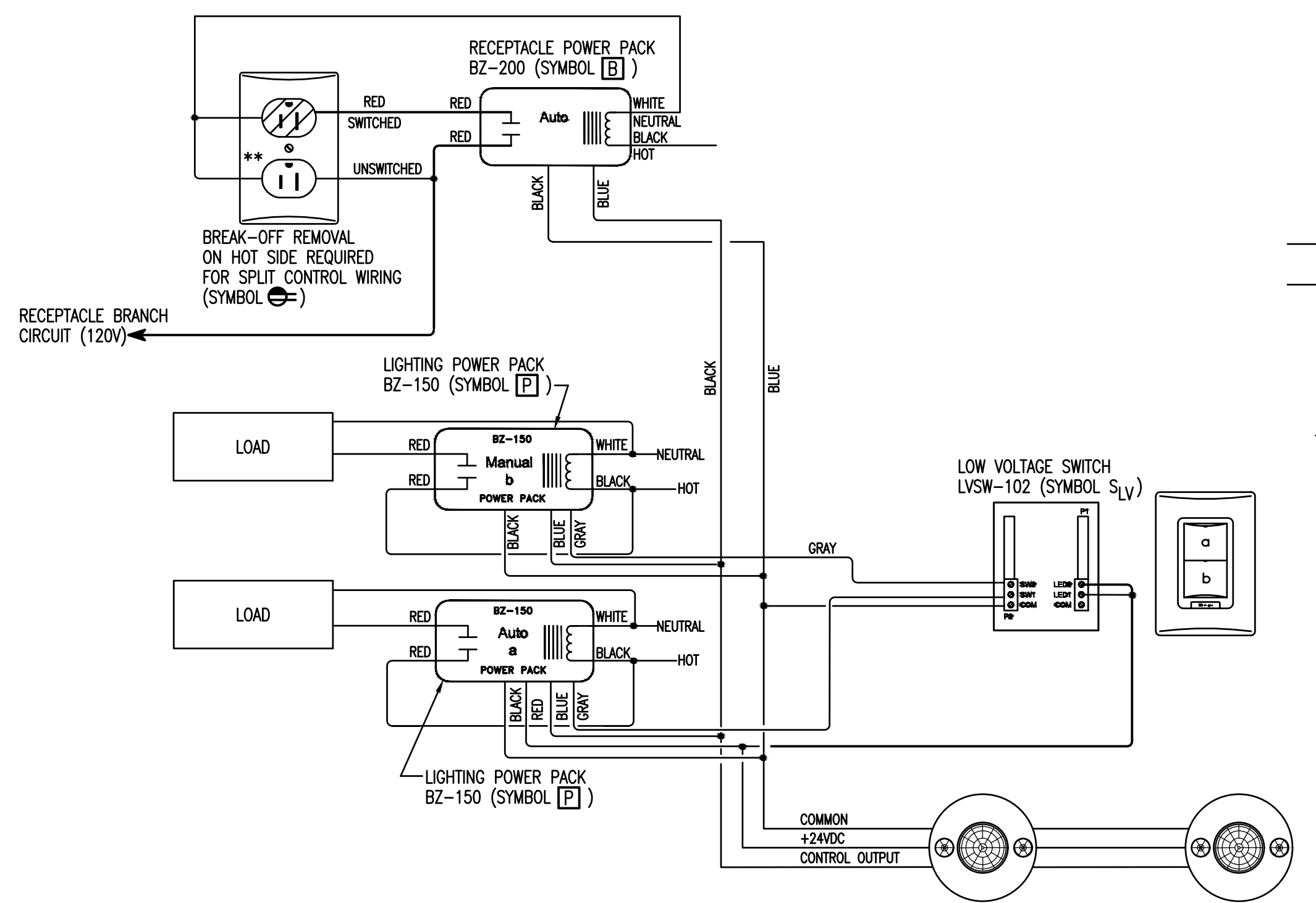
MANUFACTURERS CONSIDERED EQUAL MUST SUBMIT TO ENGINEER 10 DAYS PRIOR TO BID FOR APPROVAL.

LIGHTING FIXTURE SCHEDULE

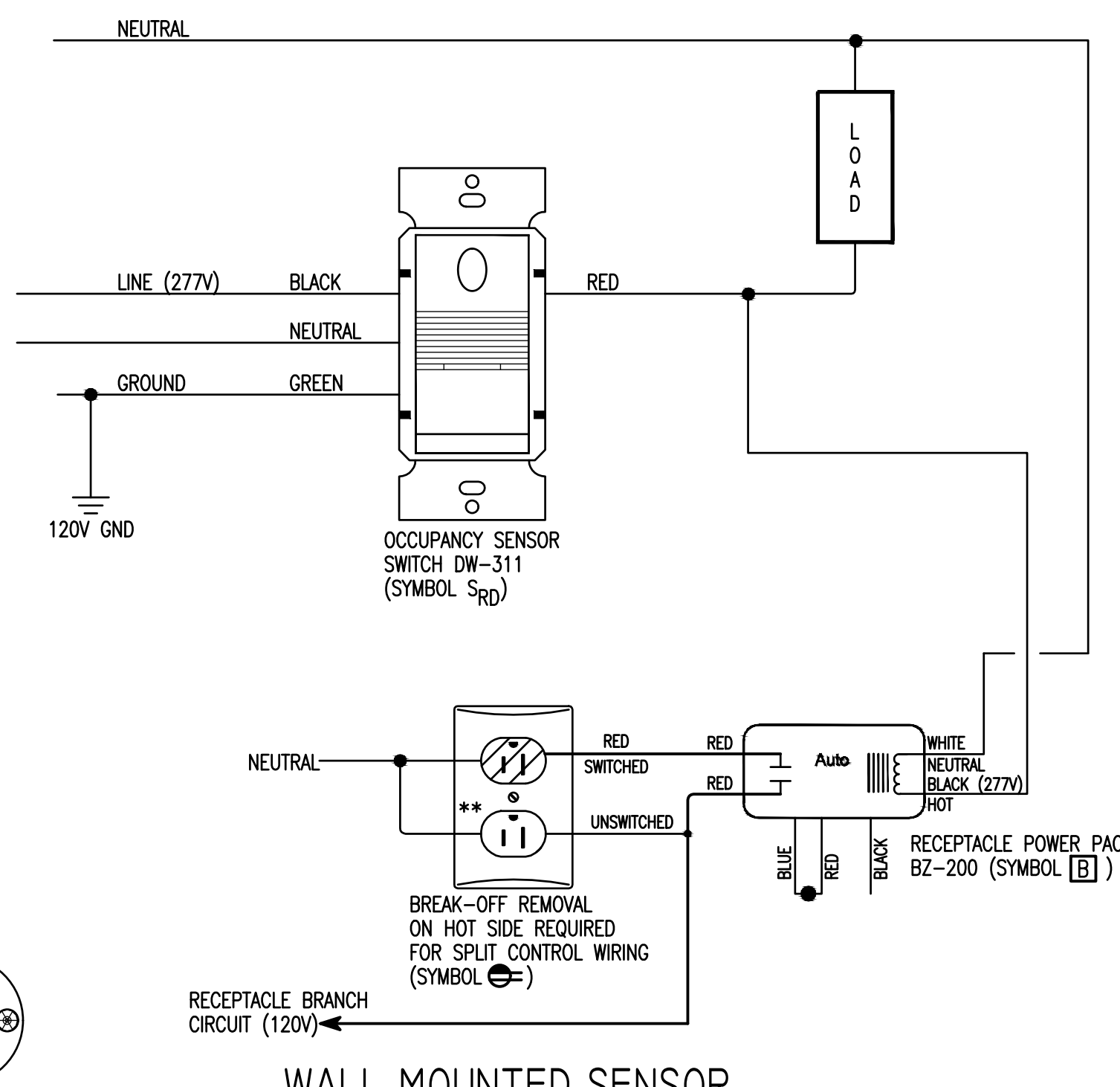
MARK	MANUFACTURER AND CATALOG No. (or approved equal)	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
DL	H.E. WILLIAMS 6DR-TL-115-835-DIM-UNV-OW-OF-CS-N-F1	15W LED ARRAY 1500 LUMEN/3500K		CEILING RECESSED	6" ROUND LED DOWNLIGHT, UNIVERSAL VOLTAGE BALLAST
DLE	H.E. WILLIAMS 6DR-TL-115-835-DIM-UNV-OW-OF-CS-N-F1-EM/10W	15W LED ARRAY 1500 LUMEN/3500K		CEILING RECESSED	6" ROUND LED DOWNLIGHT, UNIVERSAL VOLTAGE BALLAST, EMERGENCY UNIT BATTERY PACK
LPA	H.E. WILLIAMS AP-22-L30-835-DIM-UNV	29W LED ARRAY 3000 LUMEN/3500K		CEILING RECESSED	2' X 2' RECESSED EDGE-LIT ARCHED LED PANEL, DIMMING BALLAST, UNIVERSAL VOLTAGE BALLAST
LPAE	H.E. WILLIAMS AP-22-L30-835-DIM-UNV-EM/10W	29W LED ARRAY 3000 LUMEN/3500K		CEILING RECESSED	2' X 2' RECESSED EDGE-LIT ARCHED LED PANEL, DIMMING BALLAST, UNIVERSAL VOLTAGE BALLAST, EMERGENCY UNIT BATTERY PACK
LPB	H.E. WILLIAMS AP-22-L40-835-DIM-UNV	36W LED ARRAY 4000 LUMEN/3500K		CEILING RECESSED	2' X 2' RECESSED EDGE-LIT ARCHED LED PANEL, DIMMING BALLAST, UNIVERSAL VOLTAGE BALLAST
LPBE	H.E. WILLIAMS AP-22-L40-835-DIM-UNV-EM/10W	36W LED ARRAY 4000 LUMEN/3500K		CEILING RECESSED	2' X 2' RECESSED EDGE-LIT ARCHED LED PANEL, DIMMING BALLAST, UNIVERSAL VOLTAGE BALLAST, EMERGENCY UNIT BATTERY PACK
LPC	H.E. WILLIAMS AP-22-L40-835-DIM-UNV	46W LED ARRAY 5000 LUMEN/3500K		CEILING RECESSED	2' X 2' RECESSED EDGE-LIT ARCHED LED PANEL, DIMMING BALLAST, UNIVERSAL VOLTAGE BALLAST
LPCE	H.E. WILLIAMS AP-22-L40-835-DIM-UNV-EM/10W	46W LED ARRAY 5000 LUMEN/3500K		CEILING RECESSED	2' X 2' RECESSED EDGE-LIT ARCHED LED PANEL, DIMMING BALLAST, UNIVERSAL VOLTAGE BALLAST, EMERGENCY UNIT BATTERY PACK
LW2	H.E. WILLIAMS 17-2-L27-8-35-AF	21W LED ARRAY 2700 LUMEN/3500K		WALL ABOVE DOOR	1' X 2' SURFACE MOUNTED LED WRAP, UNIVERSAL VOLTAGE BALLAST
LW2E	H.E. WILLIAMS 17-2-L27-8-35-AF-EM10W	21W LED ARRAY 2700 LUMEN/3500K		WALL ABOVE DOOR	1' X 2' SURFACE MOUNTED LED WRAP, UNIVERSAL VOLTAGE BALLAST, EMERGENCY UNIT BATTERY PACK
LW4	H.E. WILLIAMS 17-4-L55-8-35-AF	42W LED ARRAY 5500 LUMEN/3500K		WALL ABOVE DOOR	1' X 4' SURFACE MOUNTED LED WRAP, UNIVERSAL VOLTAGE BALLAST
MB2	SCOTT S3447-L18-35K-(FINISH)	15W LED ARRAY 1500 LUMEN/3500K		WALL ABOVE MIRROR	2 FT LINEAR LED DECORATIVE LIGHT FIXTURE
MB3	SCOTT S3447-L24-35K-(FINISH)	28W LED ARRAY 1900 LUMEN/3500K		WALL ABOVE MIRROR	3 FT LINEAR LED DECORATIVE LIGHT FIXTURE
SBE	H.E. WILLIAMS WMAUD-4-L40-835U-L40-835D-AF-OCX-CC-N-F1	65W LED ARRAY 8040 LUMEN/3500K		WALL @ 7'-6" AFF	WALL MOUNTED LED STAIRWELL LIGHT WITH INTEGRAL MOTION SENSOR FOR CONTROLS, EMERGENCY UNIT BATTERY PACK
SF	H.E. WILLIAMS 6DR-TL-L20-840-DIM-UNV-OW-OF-CS-WET-CC-N-F1	15W LED ARRAY 1900 LUMEN/3500K		CEILING RECESSED	6" ROUND LED DOWNLIGHT, WET LOCATION, UNIVERSAL VOLTAGE BALLAST
SFE	H.E. WILLIAMS 6DR-TL-L20-840-DIM-UNV-OW-OF-CS-WET-CC-N-F1-EM/10W	15W LED ARRAY 1900 LUMEN/3500K		CEILING RECESSED	6" ROUND LED DOWNLIGHT, WET LOCATION, UNIVERSAL VOLTAGE BALLAST, EMERGENCY UNIT BATTERY PACK
VP	H.E. WILLIAMS 96-4-L62/840-UNV	92W LED ARRAY 6200 LUMEN/4000K		WALL IN ELEV PIT	4 FT LINEAR WALL MOUNTED, FULLY ENCLOSED, GASKETED LIGHT FIXTURE, 120V
WB	H.E. WILLIAMS VMPH-L30-740-T3-SDGL-DIM-UNV	36W LED ARRAY 3000 LUMEN/4000K		WALL @ 9'-0" AFF	WALL MOUNTED LED AREA LIGHT, 120V
WBE	H.E. WILLIAMS VMPH-L30-740-T3-SDGL-DIM-UNV-EM/4W	36W LED ARRAY 3000 LUMEN/4000K		WALL @ 9'-0" AFF UNO	WALL MOUNTED LED AREA LIGHT, 120V, EMERGENCY UNIT BATTERY PACK
X	WILLIAMS EXIT-R-EM-WHT-SDT	LED		WALL ABOVE DOOR	LED EXIT LIGHT WITH THERMOPLASTIC HOUSING, EMERGENCY BATTERY BACKUP, PROVIDE DIRECTIONAL ARROWS AS INDICATED, 120V, SELF TEST DIAGNOSTICS
XC	WILLIAMS EXIT-R-EM-WHT-SDT	LED		CEILING SURFACE	LED EXIT LIGHT WITH THERMOPLASTIC HOUSING, EMERGENCY BATTERY BACKUP, PROVIDE DIRECTIONAL ARROWS AS INDICATED, 120V, SELF TEST DIAGNOSTICS



TYPICAL LAY-IN FIXTURE DETAIL
NOT TO SCALE



CEILING MOUNTED SENSOR CONTROLLED RECEPTACLE DIAGRAM
NOT TO SCALE



WALL MOUNTED SENSOR CONTROLLED RECEPTACLE DIAGRAM
NOT TO SCALE

ELECTRICAL LEGEND

- CEILING OUTLETS**
- RECESSED 2X4 LED LIGHT FIXTURE
 - RECESSED 2X4 LED LIGHT FIXTURE WITH INTEGRAL EMERGENCY UNIT BATTERY PACK
 - RECESSED 2X2 LED LIGHT FIXTURE
 - SURFACE MOUNTED LED WRAP LIGHT FIXTURE
 - JUNCTION BOX
 - CEILING RECESSED MOUNTED LIGHTING FIXTURE
 - INDICATES FIXTURE WITH INTEGRAL EMERGENCY UNIT BATTERY PACK
 - ⊗ CEILING SURFACE MOUNTED EMERGENCY EXIT LIGHT
 - EF EXHAUST FAN
- WALL OUTLETS**
- ⊖ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - G ⊖ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - ⊖ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
 - G ⊖ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
 - WP ⊖ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA GF-5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE
 - ⊖ QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - ⊖ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
 - ⊖ SPLIT RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR/RELAY - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; MARK RECEPTACLES IN ACCORDANCE WITH NEC 406.3(E). SEE SENSOR CONTROLLED RECEPTACLE DIAGRAM
 - JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
 - ⊖ WALL MOUNTED EMERGENCY EXIT LIGHT
 - WALL MOUNTED LED AREA LIGHT
- ELEVATOR SMOKE DETECTION SYSTEM**
- ELEVATOR SMOKE DETECTOR WITH DUAL CONTACTS; CEILING MOUNTED
 - EC ELEVATOR SMOKE DETECTION SYSTEM RACEWAY INSTALLED CONCEALED; ARROW INDICATES HOMERUN TO ELEVATOR SMOKE DETECTION SYSTEM CONTROL PANEL
 - ⊖ EMERGENCY 'DO NOT USE ELEVATOR' SIGN; COORDINATE LOCATION WITH ELEVATOR INSTALLER
 - DUCT MOUNTED SMOKE DETECTOR
 - ⊖ NORMALLY CLOSED RELAY IN H.V.A.C CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT. CONTACTS RATED 5 AMPS, 120 VOLTS. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM OUTLET BOX TO ABOVE ACCESSIBLE CEILING
 - ⊖ ELEVATOR SMOKE DETECTOR AUDIO HORN
- TELEPHONE & TV SYSTEM**
- ▷ TELECOMMUNICATIONS OUTLET AT 18" AFF; STUB 1" C WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING
 - C ▷ TELECOMMUNICATIONS OUTLET AT 18" AFF; STUB 1" C WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING
 - ▷ TELEVISION CABLE WALL OUTLET WITH COAXIAL SCREW JACK AND COVERPLATE; MT 84" AFF TO C/L - INSTALL 3/4" C FROM OUTLET TO ABOVE ACCESSIBLE CEILING;
- PANELS AND POWER**
- 120/240 VOLT SURFACE MOUNTED PANELBOARD
 - 120/240 VOLT FLUSH MOUNTED PANELBOARD
 - NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; SS INDICATES ENCLOSURE SHALL BE STAINLESS STEEL
- BRANCH CIRCUITING**
- RUN CONCEALED UNDER FLOOR OR IN GRADE
 - RUN CONCEALED IN CEILING OR WALLS
 - LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C; 3 #12, 1 #12 GROUND - 1/2" C; 4 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
 - ~ LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
 - SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- OCCUPANCY SENSORS AND RELAYS**
- ⊖ 360° CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY (INFRARED AND ULTRASONIC) WATTSTOPPER DT-300-1
 - ⊖ 360° CEILING MOUNTED OCCUPANCY SENSOR WITH ULTRASONIC TECHNOLOGY ONLY; WATTSTOPPER WT-305-3-U; SENSOR IS DIRECTION ORIENTED, POINT LONG DIRECTION ALONG LENGTH OF CORRIDOR; PROVIDE WITH 20 AMP POWER PACK
 - ⊖ POWER PACK RELAY EQUAL TO WATTSTOPPER BZ150; INSTALL IN ACCESSIBLE LOCATION FOR MAINTENANCE PURPOSES
 - ⊖ POWER PACK RELAY EQUAL TO WATTSTOPPER BZ200; INSTALL IN ACCESSIBLE LOCATION FOR MAINTENANCE PURPOSES; SEE CONTROLLED RECEPTACLE DIAGRAMS
- MISCELLANEOUS**
- A.F.F. ABOVE FINISH FLOOR
 - WP WEATHERPROOF
 - U.N.O. UNLESS NOTED OTHERWISE
- WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F. TO TOP OF SWITCH BOX)**
- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
 - S3 A.C. TYPE, THREE-WAY, 20 AMP, 120/277 VOLT
 - SR WALL MOUNTED OCCUPANCY SENSOR; DUAL TYPE (INFRARED AND ULTRASONIC) TECHNOLOGY; MOUNT 48" AFF TO C/L; EQUAL TO WATTSTOPPER DW-100
 - SRD WALL MOUNTED OCCUPANCY SENSOR; DUAL TYPE (INFRARED AND ULTRASONIC) TECHNOLOGY; MOUNT 48" AFF TO C/L; EQUAL TO WATTSTOPPER DW-311 (DIMMING TYPE)
 - SLV WALL MOUNTED DIGITAL SWITCH EQUAL TO WATTSTOPPER LVSW-102

ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, DISCONNECTS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS/DISCREPANCIES BETWEEN DISCIPLINES BEFORE ORDERING EQUIPMENT/MATERIALS.
- DECORATIVE COVER PLATES FOR RECEPTACLE OUTLETS, SWITCHES, ETC. SHALL BE STAINLESS STEEL; REFER TO ELECTRICAL SPECIFICATIONS
- INSTALL OCCUPANCY SENSORS AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS. ALL CONDUCTORS (INCLUDING CONTROLS) ASSOCIATED WITH OCCUPANCY SENSORS AND POWER PACKS SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM.
- ELECTRICAL CONTRACTOR SHALL PAINT AND LABEL ALL JUNCTION BOXES TO IDENTIFY PANEL AND CIRCUIT; SEE ELECTRICAL SPECIFICATIONS.
- ALL CONDUCTORS INDICATED ON PLAN SHALL BE COPPER.
- EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED IN ALL BRANCH CIRCUIT WIRING. CONDUIT GROUND SHALL NOT BE ACCEPTABLE.
- THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
- ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #12 & #10 SOLID, #8 AND LARGER STRANDED, 600 VOLT INSULATION

YATES ENGINEERING SOLUTIONS

3159 Blue Jack Dr.
Naples, FL 34108
TSP# Authorization No. 30242

Phone: (850)512-9579
Email: cain@yateseng.com
FL PE No. 05826

FORT WALTON BEACH
MUSEUM ADDITION

139 Miracle Strip Pkwy SE
Fort Walton Beach, FL

jdf+
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201 hollywood Blvd ne | Ft. Walton Beach | Florida | 32548
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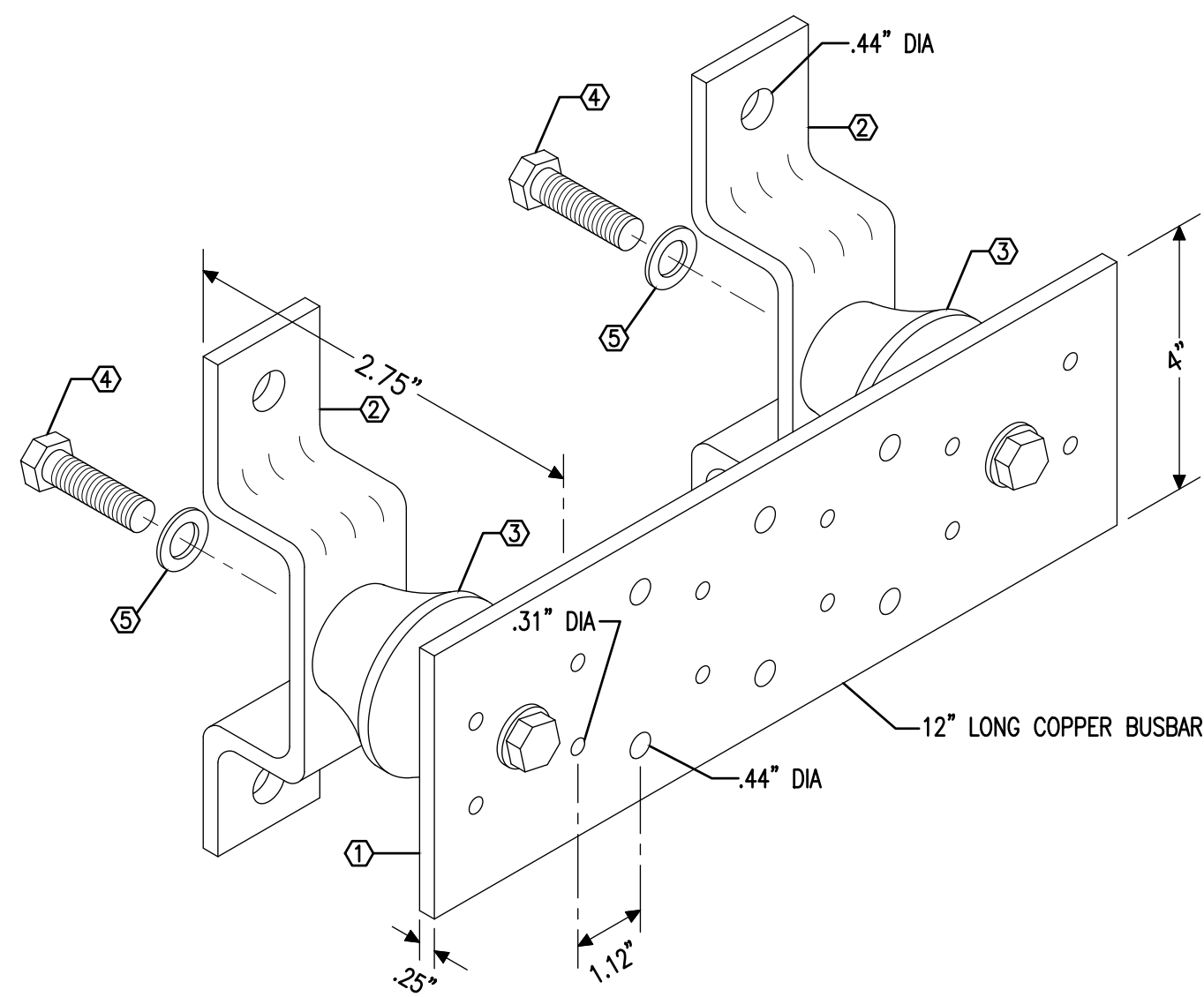
ELECTRICAL LEGEND,
NOTES & DETAILS

E0.01

DATE: 19 DEC 2022
DRAWN BY: QY
PROJECT NO: 2119
REVISIONS:
FOR CONSTRUCTION

AT CONTRACTOR'S OPTION: MC CABLE MAY BE USED IN LIEU OF EMT SUBJECT TO NEC CODE RESTRICTIONS

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TYPICAL GROUND BUS BAR DETAIL

NOT TO SCALE

GROUND BAR GENERAL NOTES:

- INSTALL GROUND BUS BAR ON COMMUNICATIONS BACKBOARD IN EACH COMMUNICATIONS ROOM. MOUNT BUS BAR AT 18" AFF. REFER TO FLOOR PLAN FOR EXACT LOCATION AT BACKBOARD.
- INSTALL 1#3/0 COPPER CONDUCTOR IN 1" CONDUIT TO EACH GROUND BUS BAR FROM THE MAIN GROUND BUS BAR. INSTALL A #3/0 COPPER GROUND FROM THE MAIN BUS BAR TO THE ELECTRICAL SERVICE GROUND.

GROUND BAR MATERIALS:

- ① TIN PLATED HIGH CONDUCTIVE COPPER GROUND BAR
- ② WALL MOUNTING BRACKET
- ③ INSULATORS
- ④ 3/8" CAP SCREWS
- ⑤ 3/8" LOCKWASHERS

120/240 VOLT 1Ø 3W CIRCUIT BREAKER PANEL SCHEDULE PANEL L2 FLUSH MOUNTED
100 AMP M.L.O.

CKT	LOAD DESCRIPTION	BREAKER POLE AMP	LOAD KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT
1	REC-TLT 203,CORR 201	1 20	.36 .85	20 1	LTS-TLT,OFFICES,CORR	2
3	REC-OFFICE 204	1 20	.72 .95	20 1	LTS-MUSEUM	4
5	REC-OFFICE 205	1 20	.72 .25	20 1	RECIRC PUMP	6
7	REC-OFFICE 206	1 20	.54	20 1	SPARE	8
9	REC-OFFICE 206	1 20	.54	20 1	SPARE	10
11	REC-STORAGE 208	1 20	.90	20 1	SPARE	12
13	REC-STORAGE 208,MECH 209	1 20	.90	20 1	SPARE	14
15	SPARE	1 20		20 1	SPARE	16
17	SPARE	1 20		20 1	SPARE	18
19	SPACE	1 ---		---	SPACE	20
21	SPACE	1 ---		---	SPACE	22
23	SPACE	1 ---		---	SPACE	24

TOTAL CONNECTED LOAD: 6.73 KVA
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/240 VOLT 3Ø 4W CIRCUIT BREAKER PANEL SCHEDULE PANEL MP SURFACE MOUNTED
600 AMP MAIN BREAKER

CKT	LOAD DESCRIPTION	BREAKER POLE AMP	LOAD KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT
1						2
3	AHU-1	3 90	27.44 4.34	50	HP-1	4
5						6
7	AHU-2	2 60	27.44 4.62	45	HP-2	8
9						10
11	EW-1	2 30	4.50 11.54	125 2	PANEL L1	12
13						14
15	SPACE	1 ---		---	SPACE	16
17	PANEL L2	2 100	6.73 43.81	250	ELEVATOR MOTOR (40HP)	18
19						20
21	SPACE	1 ---		---	SPACE	22
23	ELEVATOR RECALL PANEL	1 20	.50 .50	20 1	ELEV LTS & CONTROLS	24
25	SPACE	1 ---		---	SPACE	26
27	SPACE	1 ---		---	SPACE	28
29	SPACE	2 60		125 2	PANEL L1	30
31						32
33	SPACE	1 ---		---	SPACE	34
35	SPACE	1 ---		---	SPACE	36
37	SPACE	1 ---		---	SPACE	38
39	SPACE	1 ---		---	SPACE	40
41	SPACE	1 ---		---	SPACE	42

TOTAL CONNECTED LOAD: 131.42 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED
② VERIFY BREAKER SIZE REQUIRED WITH EQUIPMENT FURNISHED

WARNING

Arc Flash Hazard
Appropriate PPE Required

Do not operate controls or open covers without appropriate personal protection equipment. Failure to comply may result in injury or death!

REFER TO NFPA 70E FOR MINIMUM PPE REQUIREMENTS

TYPICAL ARC FLASH HAZARD LABEL DETAIL

NOT TO SCALE

ARC FLASH LABEL DETAIL NOTES:

- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ALL PANEL AND SWITCHBOARDS IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.
- LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, VENDOR, OR CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL PANELS AND SWITCHBOARDS ARE LABELED IN THE FIELD.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

PANEL LA

208Y/120 VOLTS
3 PHASE 4 WIRE
SERVED FROM PANEL MP
IN ELEC RM
10,000 AIC RATING

1/2" LETTERS

1/4" LETTERS

TYPICAL ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL

NOT TO SCALE

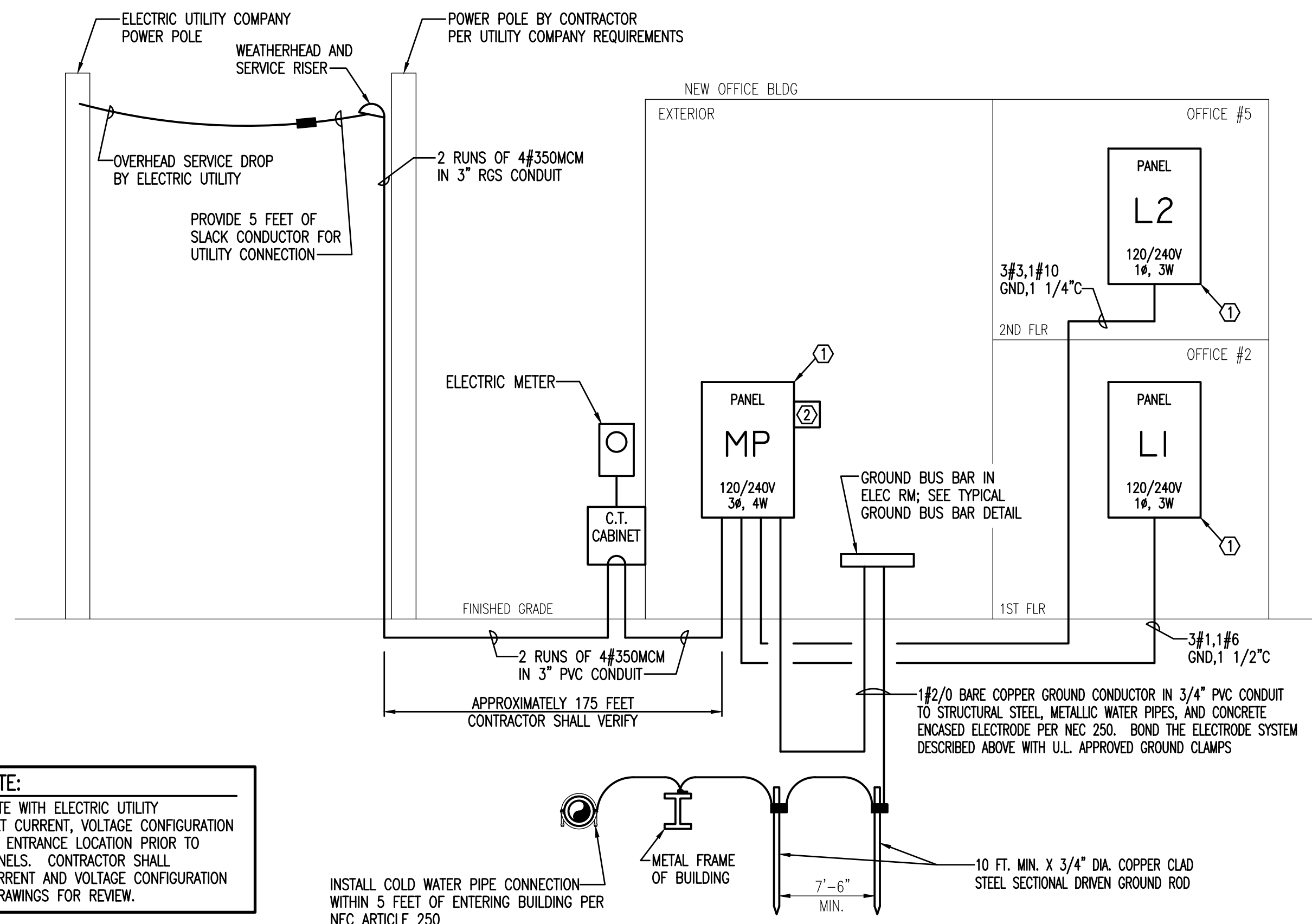
ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL NOTES:

- MECHANICALLY AFFIX NAMEPLATE TO PANELBOARDS, CONTROL PANELS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS OR SIMILAR DEVICES.
- LETTERS SHALL BE WHITE ON BLACK BACKGROUND; SIZE OF LETTERS INDICATED ON DETAIL.
- INFORMATION IN LABEL IS A GENERIC EXAMPLE - DESIGNATE EQUIPMENT IN A SIMILAR WAY USING RELEVANT INFORMATION (NAME OF PANEL, VOLTS, PHASE, LOCATION, AIC RATING ETC.) ACCORDING TO EACH INDIVIDUAL LOCATION OF EQUIPMENT.

120/240 VOLT 1Ø 3W CIRCUIT BREAKER PANEL SCHEDULE PANEL L1 FLUSH MOUNTED
125 AMP M.L.O.

CKT	LOAD DESCRIPTION	BREAKER POLE AMP	LOAD KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT
1	DRINK FOUNTAINS	1 20	1.20 1.17	20 1	LTS-CORR,MECH,ELEC,STAIRS	2
3	REC-MEN,WOMEN,CORR	1 20	.54 1.70	20 1	LTS-MUSEUM	4
5	LTS/REC-ELEVATOR PIT	1 20	1.0 .45	20 1	LTS-CONF RM	6
7	REC-OFFICE 105	1 20	.72 .16	20 1	EXTERIOR LIGHTS	8
9	REC-MUSEUM 100	1 20	.90 .18	20 1	REC-MECH 104	10
11	REC-MUSEUM 100	1 20	1.08 1.0	20 1	REC-TBB ELEC 103	12
13	REC-CONF RM 109	1 20	.72	20 1	SPARE	14
15	REC-CONF RM 109	1 20	.72	20 1	SPARE	16
17	SPARE	1 20		20 1	SPARE	18
19	SPARE	1 20		20 1	SPARE	20
21	SPARE	1 20		20 1	SPARE	22
23	SPARE	1 20		20 1	SPARE	24
25	SPARE	1 20		20 1	SPARE	26
27	SPARE	1 20		20 1	SPARE	28
29	SPACE	1 ---		---	SPACE	30
31	SPACE	1 ---		---	SPACE	32
33	SPACE	1 ---		---	SPACE	34
35	SPACE	1 ---		---	SPACE	36
37	SPACE	1 ---		---	SPACE	38
39	SPACE	1 ---		---	SPACE	40
41	SPACE	1 ---		---	SPACE	42

TOTAL CONNECTED LOAD: 11.54 KVA
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL



ELECTRIC UTILITY NOTE:
CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY COMPANY FOR AVAILABLE FAULT CURRENT, VOLTAGE CONFIGURATION (WYE OR DELTA) AND SERVICE ENTRANCE LOCATION PRIOR TO ORDERING ANY ELECTRICAL PANELS. CONTRACTOR SHALL LIST THE AVAILABLE FAULT CURRENT AND VOLTAGE CONFIGURATION ON THE PANELBOARD SHOP DRAWINGS FOR REVIEW.

- POWER RISER KEY NOTES:**
- CONTRACTOR SHALL IDENTIFY HIGH LEG ('B' PHASE) IN 3-PHASE PANELS WITH ORANGE TAPE PER NEC 110.15. PANELS L1 AND L2 SHALL NOT BE CONNECTED TO THE 'B' PHASE (HIGH LEG).
 - PROVIDE INTEGRAL SURGE SUPPRESSOR DEVICE IN PANEL WITH 40KA PER MODE/80KA PER PHASE, INDICATING LIGHTS AND ALARM SURGE COUNTER. SURGE SUPPRESSOR SHALL BE EATON SPC SERIES, VERIFY VOLTAGE AND PHASES. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

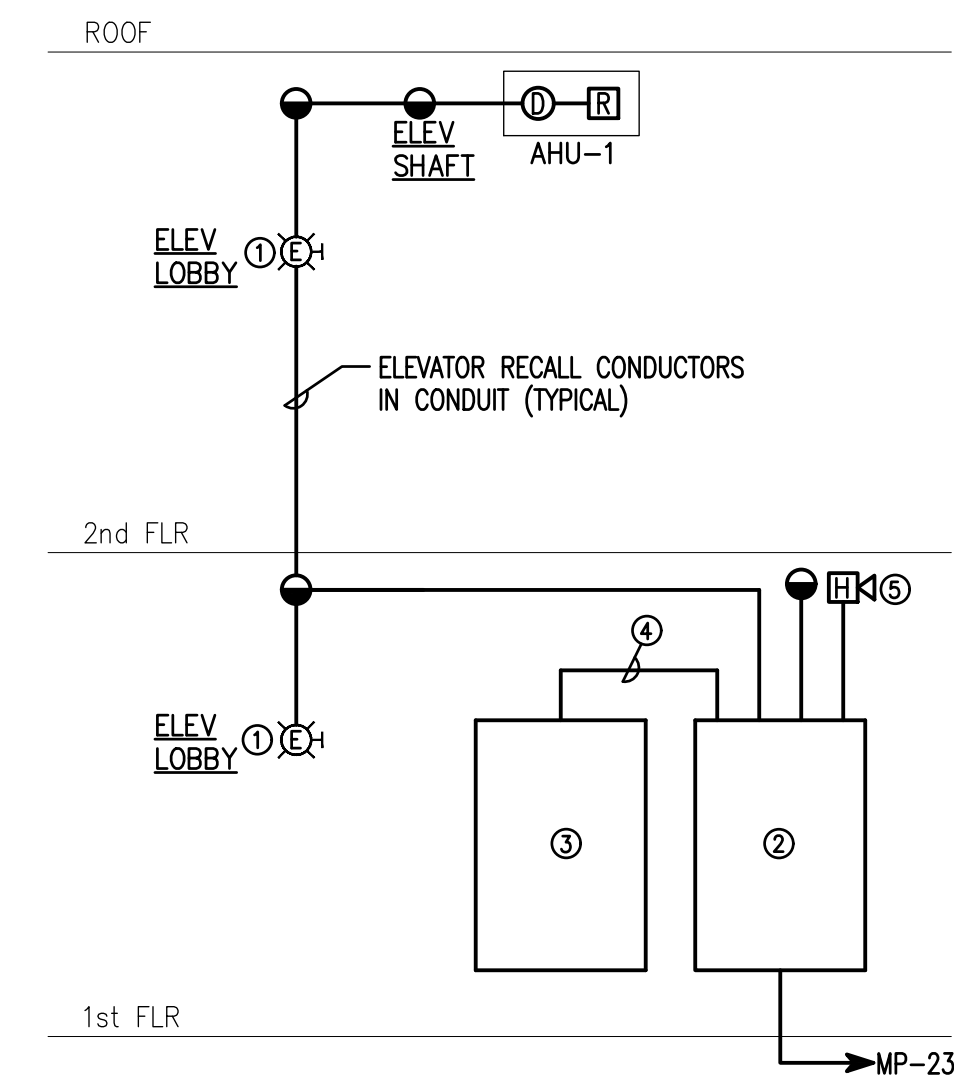
NEW WORK POWER RISER DIAGRAM

NOT TO SCALE

YATES ENGINEERING SOLUTIONS

3159 Blue Jack Dr.
Noyes, FL 32566
TSP# Authorization No. 30242

Phone: (850)512-9579
Email: curn@yateseng.com
FL PE No. 05826



ELEVATOR RECALL RISER

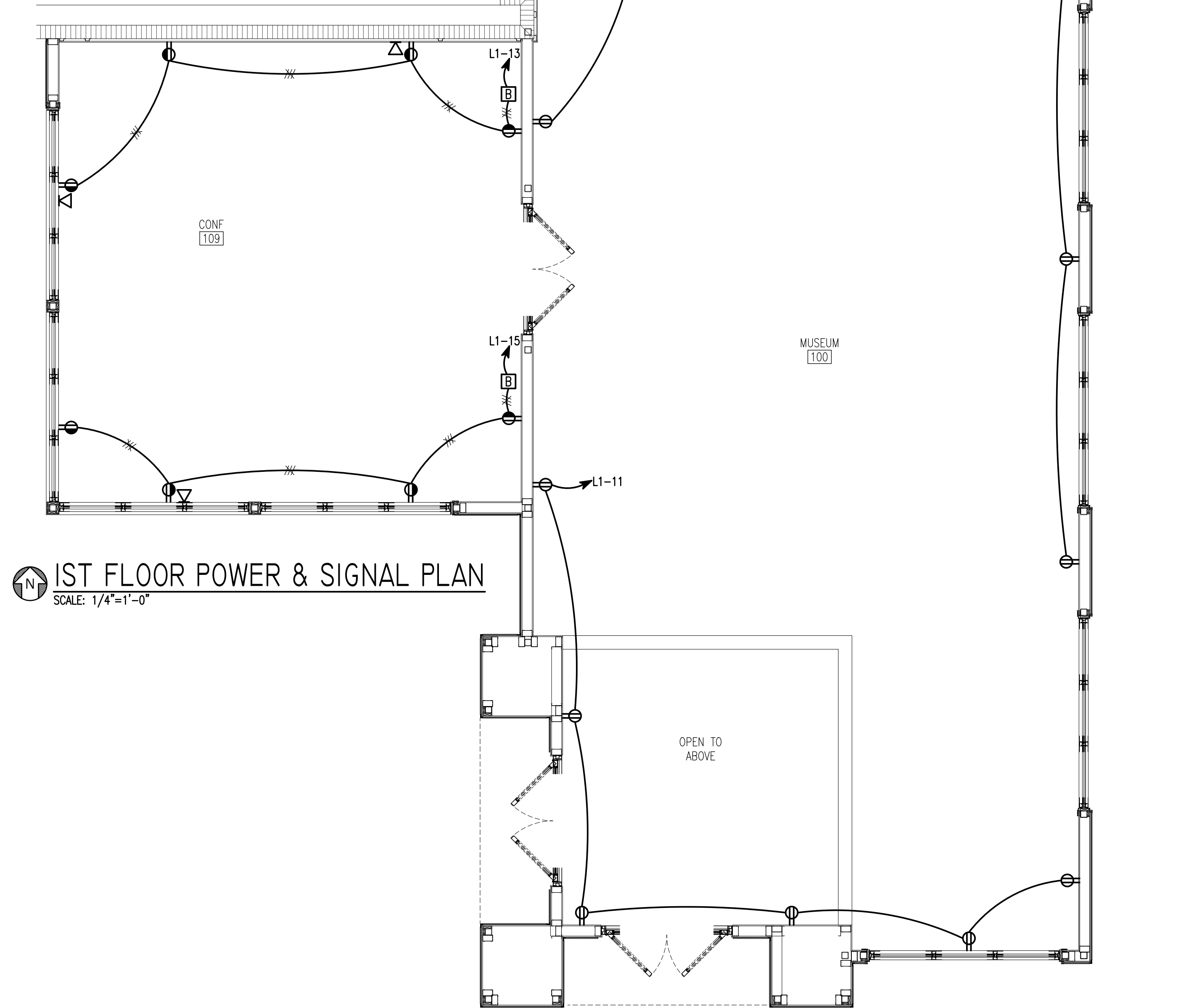
NOT TO SCALE

NOTES:

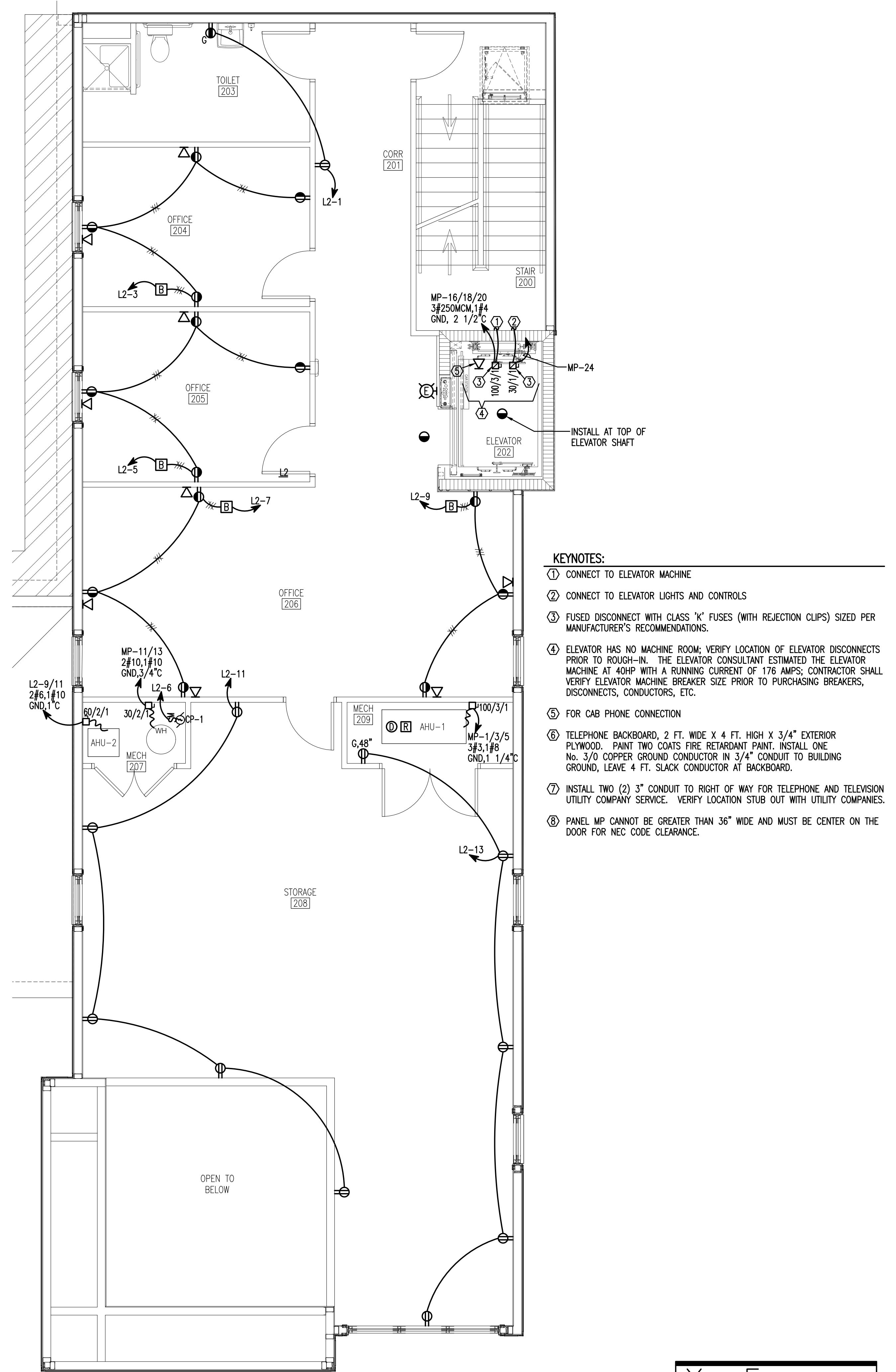
- ① FLASHING "DO NOT USE ELEVATOR" SIGN, TO FLASH WHEN SMOKE DETECTED AT ELEVATOR SHAFT OR MACHINE ROOM.
- ② ELEVATOR RECALL CONTROL AND SUPERVISORY PANEL; INSTALL IN SUPERVISED LOCATION
- ③ ELEVATOR EQUIPMENT CONTROLS
- ④ CONNECT FOR RECALL CONTROL SEQUENCE
- ⑤ AUDIO/VISUAL DEVICE

RECALL PANEL ZONES

1	ELEVATOR SMOKE DETECTORS
2	RECALL PANEL SMOKE DETECTOR
3	A/C UNIT SMOKE DETECTORS
4	SPARE



1ST FLOOR POWER & SIGNAL PLAN
SCALE: 1/4"=1'-0"



2ND FLOOR POWER & SIGNAL PLAN
SCALE: 1/4"=1'-0"

KEYNOTES:

- ① CONNECT TO ELEVATOR MACHINE
- ② CONNECT TO ELEVATOR LIGHTS AND CONTROLS
- ③ FUSED DISCONNECT WITH CLASS 'K' FUSES (WITH REJECTION CLIPS) SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- ④ ELEVATOR HAS NO MACHINE ROOM; VERIFY LOCATION OF ELEVATOR DISCONNECTS PRIOR TO ROUGH-IN. THE ELEVATOR CONSULTANT ESTIMATED THE ELEVATOR MACHINE AT 40HP WITH A RUNNING CURRENT OF 176 AMPS; CONTRACTOR SHALL VERIFY ELEVATOR MACHINE BREAKER SIZE PRIOR TO PURCHASING BREAKERS, DISCONNECTS, CONDUCTORS, ETC.
- ⑤ FOR CAB PHONE CONNECTION
- ⑥ TELEPHONE BACKBOARD, 2 FT. WIDE X 4 FT. HIGH X 3/4" EXTERIOR PLYWOOD. PAINT TWO COATS FIRE RETARDANT PAINT. INSTALL ONE No. 3/0 COPPER GROUND CONDUCTOR IN 3/4" CONDUIT TO BUILDING GROUND, LEAVE 4 FT. SLACK CONDUCTOR AT BACKBOARD.
- ⑦ INSTALL TWO (2) 3" CONDUIT TO RIGHT OF WAY FOR TELEPHONE AND TELEVISION UTILITY COMPANY SERVICE. VERIFY LOCATION STUB OUT WITH UTILITY COMPANIES.
- ⑧ PANEL MP CANNOT BE GREATER THAN 36" WIDE AND MUST BE CENTER ON THE DOOR FOR NEC CODE CLEARANCE.

YATES ENGINEERING SOLUTIONS

7150 Blue Jack Dr.
Naples, FL 34109
TBP# Authorization No. 30242
Phone: (800)612-9579
Email: quinn@yateseng.com
FL PE No. 60826

DATE: 19 DEC 2022

POWER & SIGNAL PLANS

DRAWN BY: GY

PROJECT NO: 2119

REVISIONS:

FOR CONSTRUCTION

FORT WALTON BEACH MUSEUM ADDITION

jdf+ architecture llc
201 Hollywood Blvd ne | Ft. Walton Beach, Florida | 32548
850-462-1166 | www.jdfarchitecture.com | A26002502

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