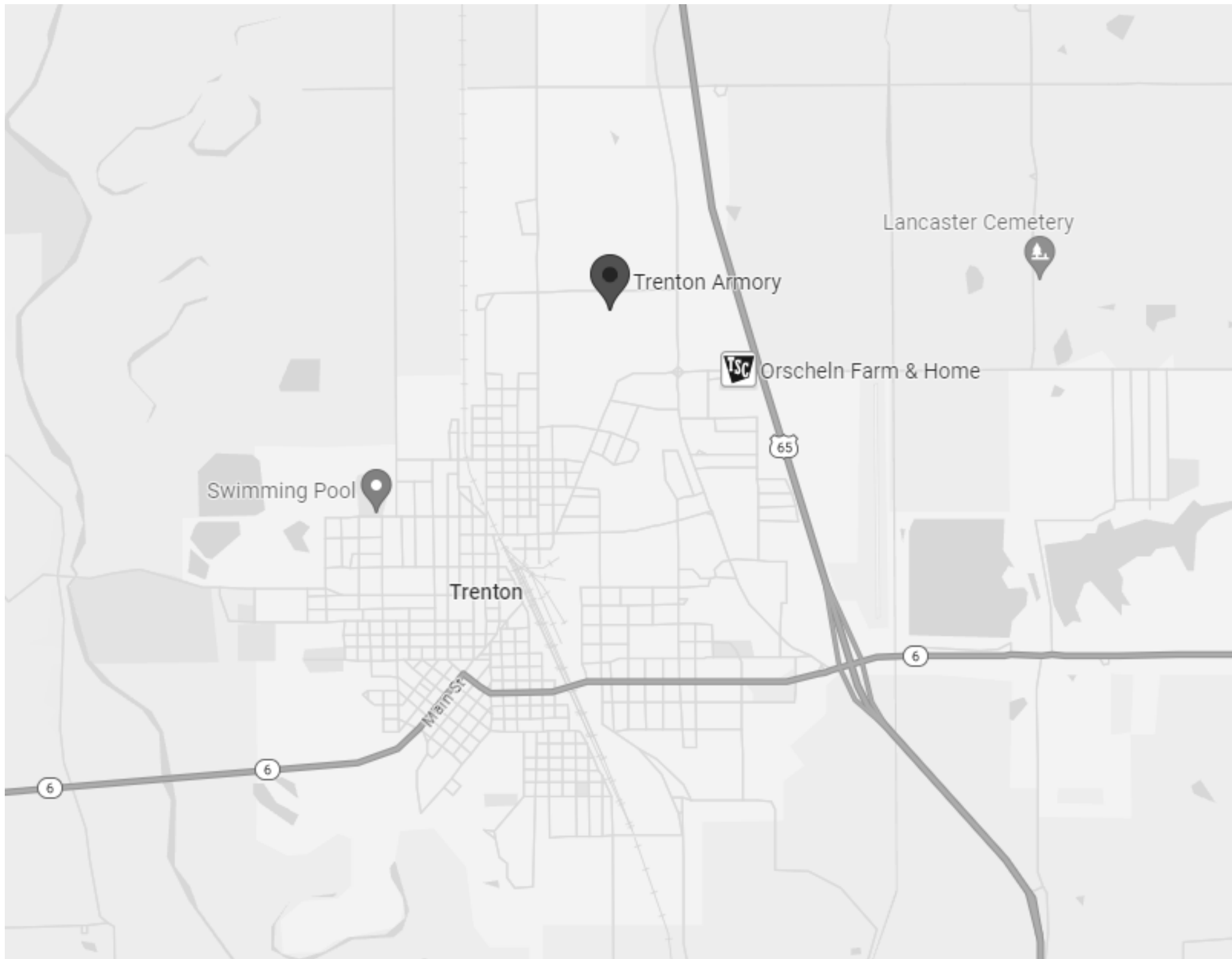


TRENTON READINESS CENTER - RENOVATE INTERIOR & EXTERIOR

LOCATION MAP:



OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF MISSOURI
NATIONAL GUARD OFFICE OF
ADJUTANT GENERAL

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION



DESIGNERS:

ARCHITECTS:
ELLISON-AUXIER ARCHITECTS, INC.
924 FRANCIS
ST. JOSEPH, MO 64501

ENGINEER:
LANKFORD FENDLER AND ASSOCIATES
1730 WALNUT STREET
KANSAS CITY, MO 64108

PROJECT NO: T2405-01

SITE NO: 6256

ASSET NO: 8136256005

CODE INFORMATION:

INTERNATIONAL BUILDING CODE (IBC) 2015
INTERNATIONAL PLUMBING CODE (IPC) 2015
INTERNATIONAL MECHANICAL CODE (IMC) 2015
INTERNATIONAL FIRE CODE (IFC) 2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2015
NATIONAL ELECTRIC CODE (NEC) 2015

CONSTRUCTION TYPE: 2B

USE GROUP: B (BUSINESS) & A-2 (ASSEMBLY)

ABBREVIATIONS:							
AB	ANCHOR BOLT	DIM	DIMENSION	INCL	INCLUDED / INCLUDING	PR	PAIR
AC	AIR CONDITIONING	DS	DOWNSPOUT	INFO	INFORMATION	PREFAB	PREFABRICATED
ACC	ACCESSIBLE	DIA	DIAMETER	INSUL	INSULATION	PROJ	PROJECT
ACOUST	ACOUSTICAL	DIFF	DIFFUSER	INT	INTERIOR	PT	POINT
ACT	ACOUSTICAL CEILING TILE	DISP	DISPENSER			PTD	PAINTED
AD	AREA DRAIN	DN	DOWN	JAN	JANITOR		
ADD	ADDITIONAL	DR	DOOR	JC	JANITOR CLOSET	QT	QUARRY TILE
ADJ	ADJUSTABLE	DW	DISHWASHER	JST	JOIST	QTY	QUANTITY
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	JT	JOINT		
AGGR	AGGREGATE					REQ'D	REQUIRED
ALT	ALTERNATE	E	EAST	LAV	LAVATORY	REV	REVERSE / REVISE
ALUM	ALUMINUM	EXIST	EXISTING	LDG	LANDING	RAD	RADIUS
ANCH	ANCHOR BOLT	EJ	EXPANSION JOINT	LAM	LAMINATE / LAMINATION	RCP	REFLECTED CEILING PLAN
ANNO	ANODIZED	ELEV	ELEVATION	LB	POUND	REINF	REINFORCED / REINFORCING
APPD	APPROVED	EQ	EQUAL	LF	LINEAR FOOT	REL	RELOCATE
APPROX	APPROXIMATE	EA	EACH	LN	LINEAR FOOT	REM	REMOVABLE
ARCH	ARCHITECTURAL	EQUIP	EQUIPMENT	LT	LIGHT	RO	ROUGH OPENING
AUTO	AUTOMATIC	EXT	EXTERIOR			RTD	RATED
AV	AUDIO VISUAL	ETR	EXISTING TO REMAIN	M	METER / METRIC	RD	ROOF DRAIN
				MACH	MACHINE		
BD	BOARD	FD	FLOOR DRAIN	MAINT	MAINTENANCE	S	SOUTH
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET	MATL	MATERIAL	SC	SEALED CONCRETE
BLKG	BLOCKING	FE	FIRE EXTINGUISHER	MAX	MAXIMUM	SHT	SHEET
BM	BEAM	FIN	FINISH	MECH	MECHANICAL	SIM	SIMILAR
BO	BOTTOM OF	FLR	FLOOR	MTL	METAL	SPEC	SPECIFICATION
BRK	BRICK	FB	FACE BRICK	MEMB	MEMBRANE	STL	STEEL
BSMT	BASEMENT	FDN	FOUNDATION	MIN	MINIMUM	STRUCT	STRUCTURAL
BT	BOLT	FIXT	FIXTURE	MISC	MISCELLANEOUS	SUSP	SUSPENDED
		FLASH	FLASH	MO	MASONRY OPENING	SECT	SECTION
CAB	CABINET	FOW	FACE OF WALL	MTD	MOUNTED	SF	SQUARE FEET / FOOT
CAT	CATEGORY	FS	FLOOR SINK	MTG	MOUNTING	SHR	SHOWER
CB	CATCH BASIN	FV	FIELD VERIFY	MULL	MULLION	SQ	SQUARE FEET / FOOT
CEM	CEMENT	FT	FEET			STD	STANDARD
CER	CERAMIC	FTG	FOOTING	N	NORTH	STOR	STORAGE
CC	CENTER TO CENTER	FURN	FURNITURE	NA	NOT APPLICABLE	SYS	SYSTEM
CHAN	CHANNEL			NIC	NOT IN CONTRACT		
CIP	CAST-IN-PLACE	GA	GAUGE	NTS	NOT TO SCALE	TO	TOP OF:
CJ	CONTROL JOINT	GALV	GALVANIZED			TYP	TYPICAL
CG	CORNER GUARD	GYP	GYPSUM	OC	ON CENTER	TEMP	TEMPERED
CMU	CONCRETE MASONRY UNIT	GB	GRAB BAR	OD	OUTSIDE DIAMETER	THK	THICKNESS
CONC	CONCRETE	GR	GRADE	OH	OVERHEAD	TPD	TOILET PAPER DISPENSER
CL	CENTER LINE	GRD	GROUND	OFD	OVERFLOW DRAIN		
CLG	CEILING	GC	GENERAL CONTRACTOR	OPG	OPENING	UL	UNIVERSAL LABORATORIES
CLR	CLEAR			OPP	OPPOSITE	UNO	UNLESS NOTED OTHERWISE
CNTR	COUNTER	HT	HEIGHT			UR	URINAL
CO	CLEANOUT	HB	HOSE BIBB	PAV	PAVING	UNFIN	UNFINISHED
COL	COLUMN	HC	HOLLOW CORE	PDO	POWER DOOR OPERATOR		
CONT	CONTINUOUS	HCP	HANDICAPPED	PTN	PARTITION	VCT	VINYL COMPOSITION TILE
CONTR	CONTRACTOR	HDW	HARDWARE	PATD	PAPER TOWEL DISPENSER	VERT	VERTICAL
COORD	COORDINATE	HDWD	HARDWARE	PBD	PARTICLEBOARD	VEST	VESTIBULE
CORR	CORRIDOR	HM	HOLLOW METAL	PC	PRECAST CONCRETE		
CT	CERAMIC TILE	HNDRL	HANDRAIL	PERF	PERFORATED	W/	WITH
		HORIZ	HORIZONTAL	PERIM	PERIMETER	W	WEST
DBL	DOUBLE	HR	HOUR	PERP	PERPENDICULAR	WC	WATER CLOSET
DEG	DEGREE	HVAC	HEATING, VENTILATING & AIR	PL	PLATE	WD	WOOD
DEMO	DEMOLITION		CONDITIONING	PLAM	PLASTIC LAMINATE	W/O	WITHOUT
DEPT	DEPARTMENT			PLYWD	PLYWOOD	WP	WATERPROOFING
DTL	DETAIL	ID	INSIDE DIAMETER	PLBG	PLUMBING	WSCT	WAINSCOT
DF	DRINKING FOUNTAIN	IN	INCH	PNL	PANEL	WT	WEIGHT

SYMBOL LEGEND

SYMBOL	DESCRIPTION
<div>ROOM 100</div>	ROOM TAG
<div>100</div>	DOOR NUMBER TAG
<div>1</div>	WINDOW NUMBER TAG
<div>? —</div>	PARTITION TYPE TAG
<div></div>	EXTERIOR ELEVATION MARKER
<div>AXXX</div>	INTERIOR ELEVATION MARKER
<div></div>	BUILDING SECTION MARKER
<div></div>	WALL SECTION MARKER
<div>— SIM</div>	DETAIL REFERENCE (SECTION VIEW)
<div>— SIM</div>	DETAIL / ENLARGED PLAN REFERENCE (PLAN VIEW)

LIST OF DRAWING	
SHEET NUMBER	SHEET NAME
01 GENERAL	
G-001	COVER SHEET
G-002	SHEET INDEX, SYMBOLS & LEGENDS
G-003	CODE REVIEW
02 CIVIL	
C-101	SITE PLAN AND DETAILS
03 STRUCTURAL	
S500	GENERAL NOTES AND DETAIL
04 ARCHITECTURAL	
D-101	DEMOLITION LEVEL 1
A-101	LEVEL 1 - FLOOR PLAN
A-201	EXTERIOR ELEVATIONS
A-401	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS
A-601	SCHEDULES
A-701	LEVEL 1 - REFLECTED CEILING PLAN
05 MECHANICAL	
M111	LEVEL 1 - FLOOR PLAN MECHANICAL DEMOLITION
M211	LEVEL 1 - FLOOR PLAN MECHANICAL NEW WORK
M311	MECHANICAL DETAILS
M312	MECHANICAL SCHEDULES, NOTES, & SYMBOLS
06 PLUMBING	
P111	LEVEL 1 - FLOOR PLAN PLUMBING DEMOLITION
P211	LEVEL 1 - FLOOR PLAN PLUMBING NEW WORK
P212	ENLARGED LEVEL 1 - FLOOR PLANS PLUMBING NEW WORK
P311	PLUMBING DETAILS
P312	PLUMBING SCHEDULES, NOTES, & SYMBOLS
07 ELECTRICAL	
E111	LEVEL 1 - FLOOR PLAN ELECTRICAL DEMOLITION
E211	LEVEL 1 - FLOOR PLAN ELECTRICAL POWER
E212	LEVEL 1 - FLOOR PLAN ELECTRICAL LIGHTING
E213	LEVEL 1 - FLOOR PLAN SYSTEMS
E311	ELECTRICAL DETAILS
E312	ELECTRICAL SCHEDULES, NOTES, & SYMBOLS

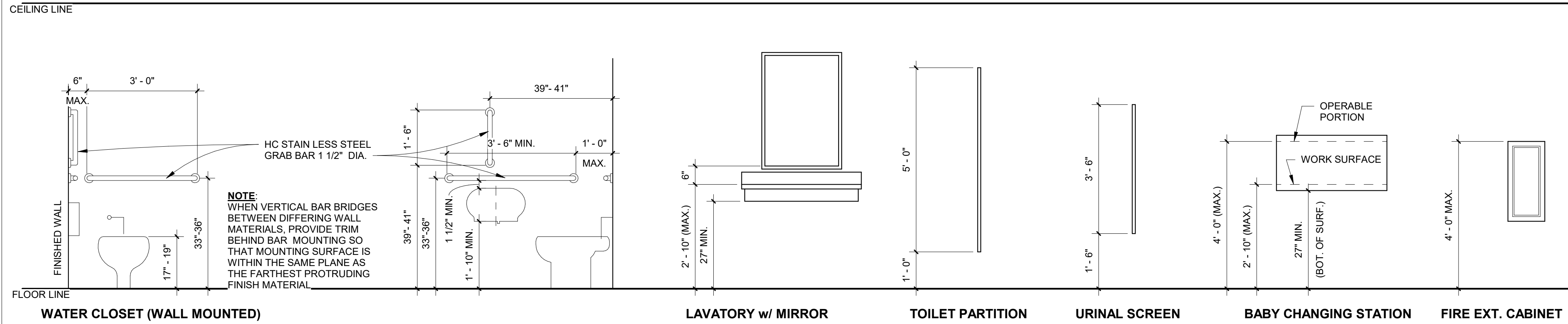
WALL PARTITIONS

G3.0.1(1)	3-5/8" METAL STUDS w/ G.B. ONE SIDE	G3.2	FIRE RATING: 2 HR.	UL #:U419
G3.0.1	3-5/8" METAL STUDS	G3.2.2	3-5/8" METAL STUDS	
G3.0.1A	3-5/8" METAL STUDS w/ ACOUST. INSUL.			

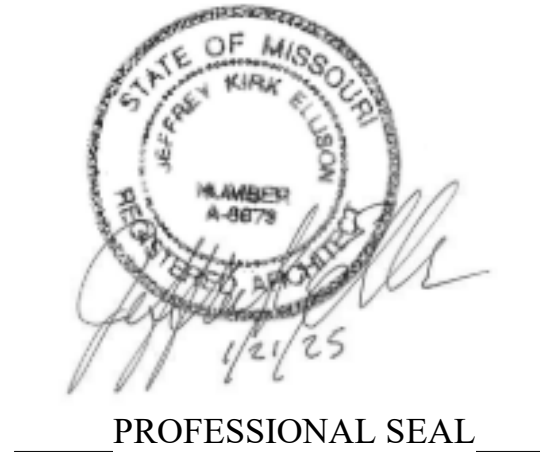
MATERIALS LEGEND

	CONCRETE		EARTH/BACKFILL
	CONCRETE BLOCK		FINISHED WOOD
	BRICK MASONRY		GYPSUM BOARD
	RIGID INSULATION		PLYWOOD
	BATT OR BLOWN INSUL.		INSULATION BOARD
	DIMENSIONAL LUMBER		

TYPICAL MOUNTING HEIGHTS



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

MISSOURI NATIONAL GUARD

TRENTON READINESS
CENTER - RENOVATE
INTERIOR & EXTERIOR
922 INDUSTRIAL DRIVE
TRENTON, MO 64683

PROJECT #: T2405-01
SITE #: 6256
ASSET#: 8136256005

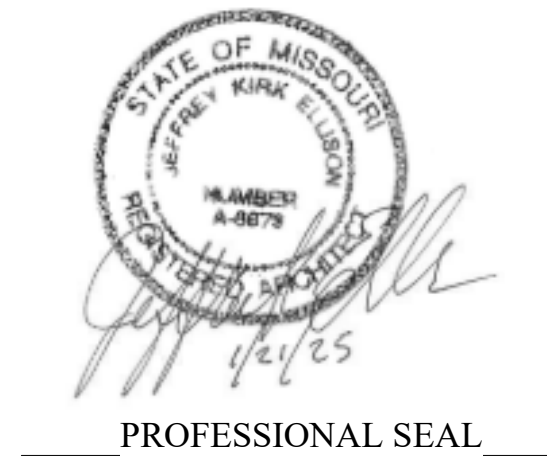
REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 01.21.2025

CAD DWG FILE: _____
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
SHEET INDEX, SYMBOLS
& LEGENDS

SHEET NUMBER:

G-002



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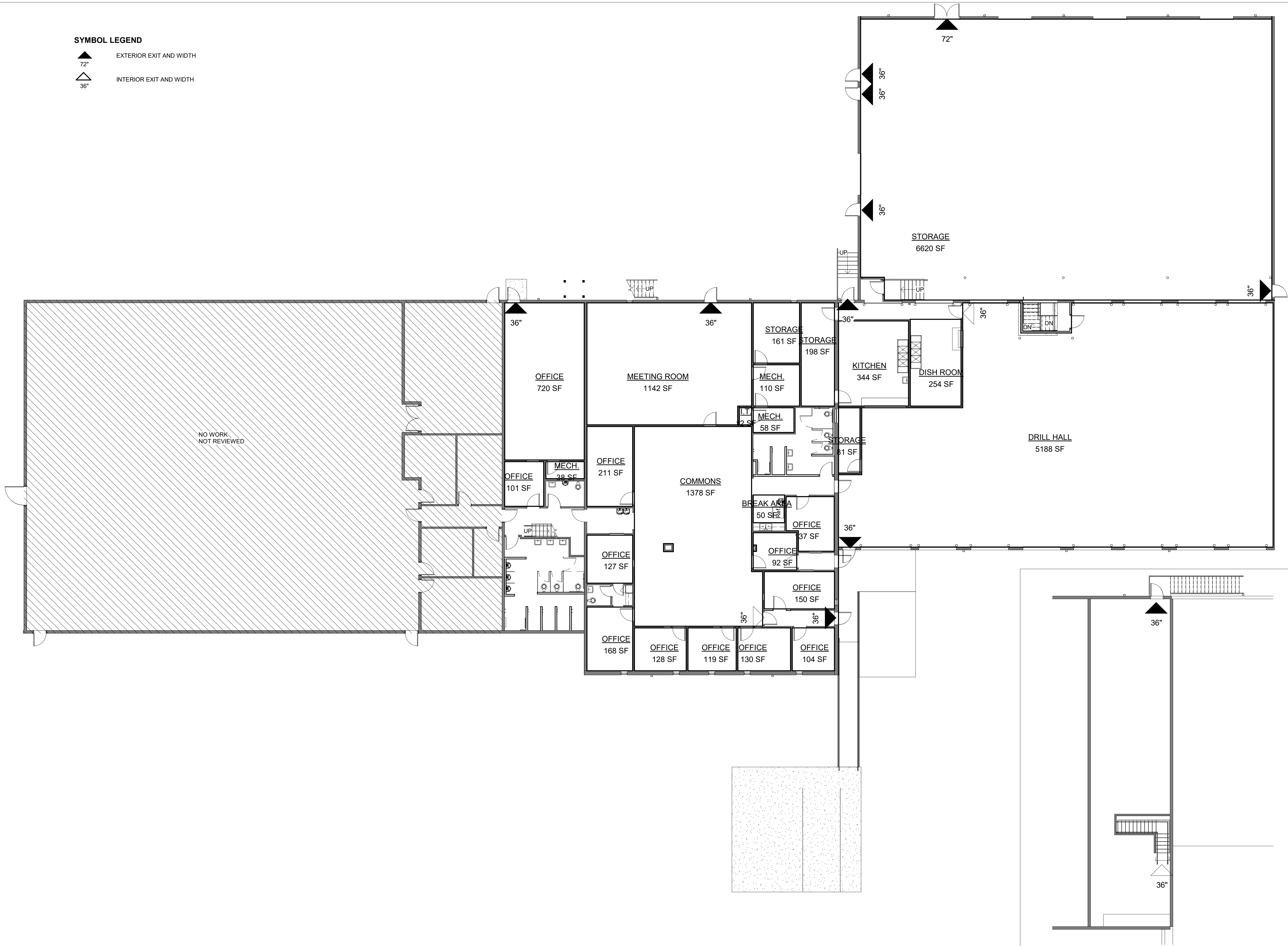
CAD DWG FILE: _____
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

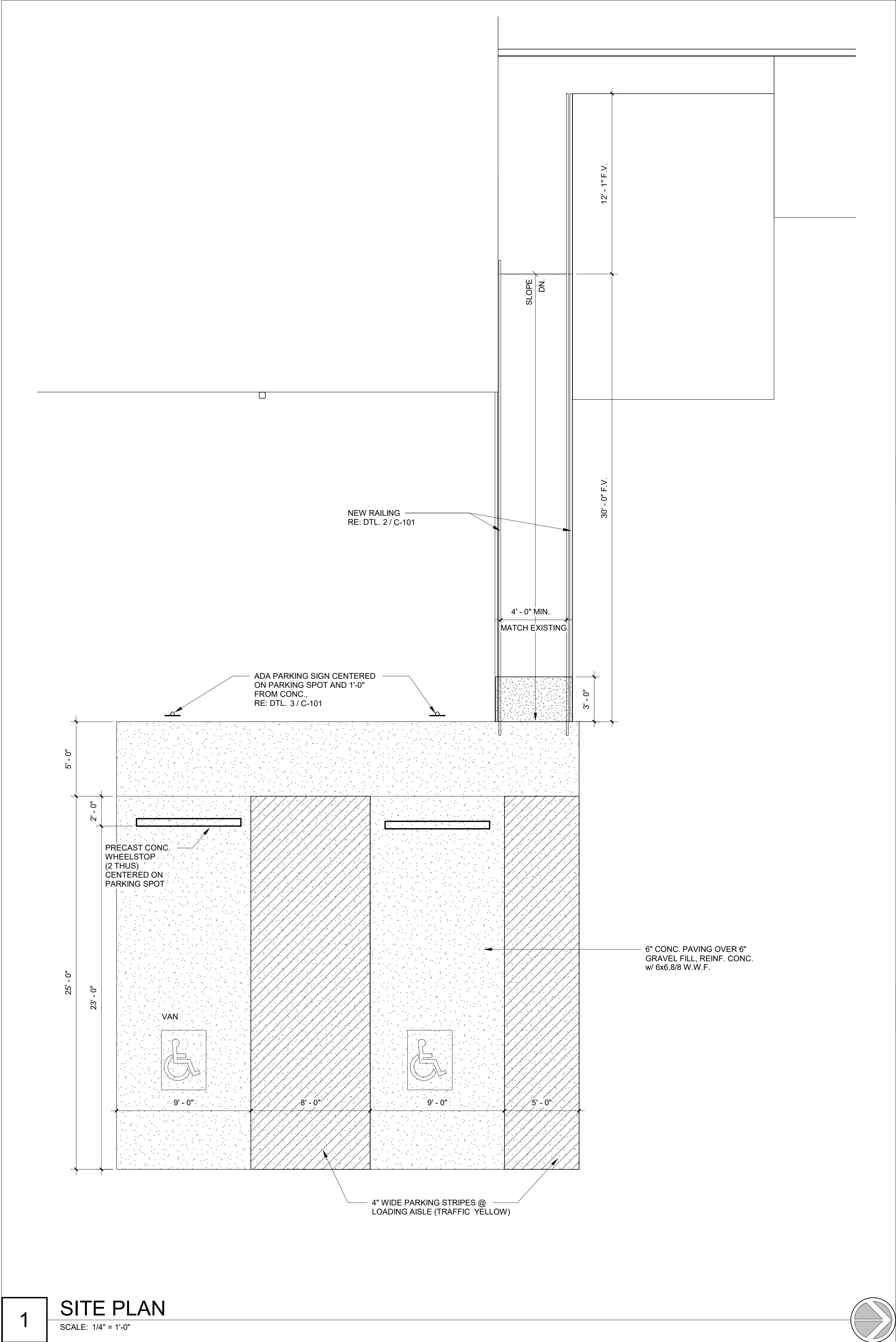
SHEET TITLE:
CODE REVIEW

SHEET NUMBER:

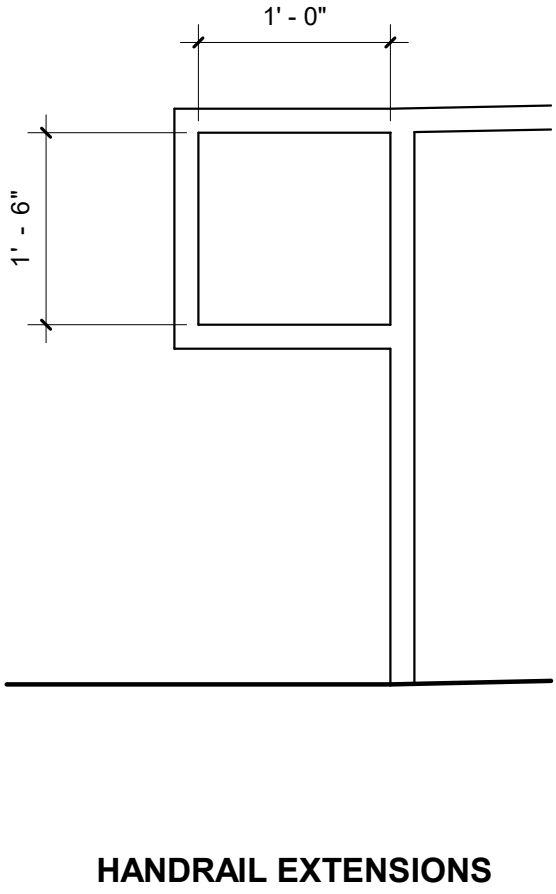
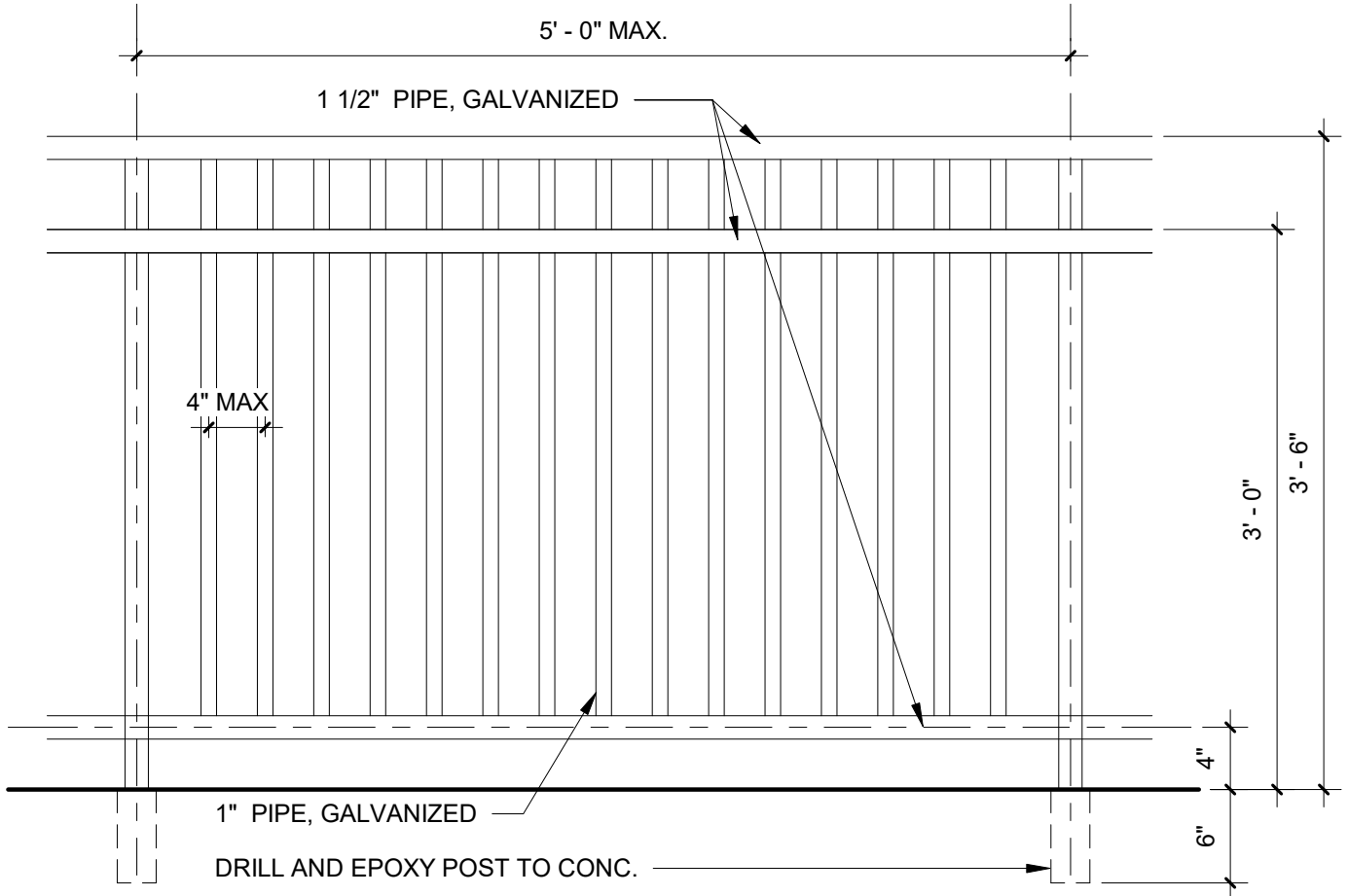
SYMBOL LEGEND

▲ 72" EXTERIOR EXIT AND WIDTH
▲ 36" INTERIOR EXIT AND WIDTH

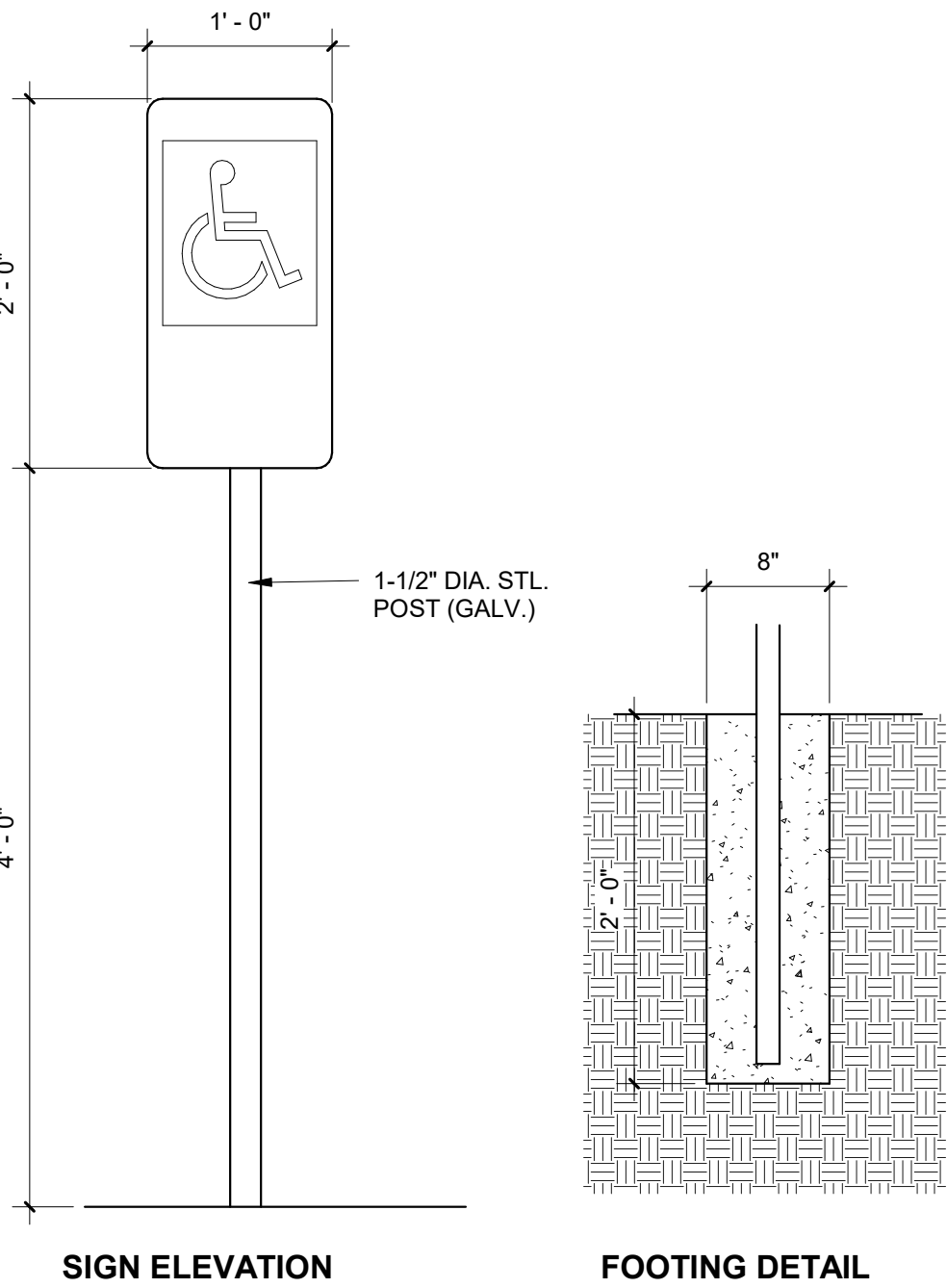




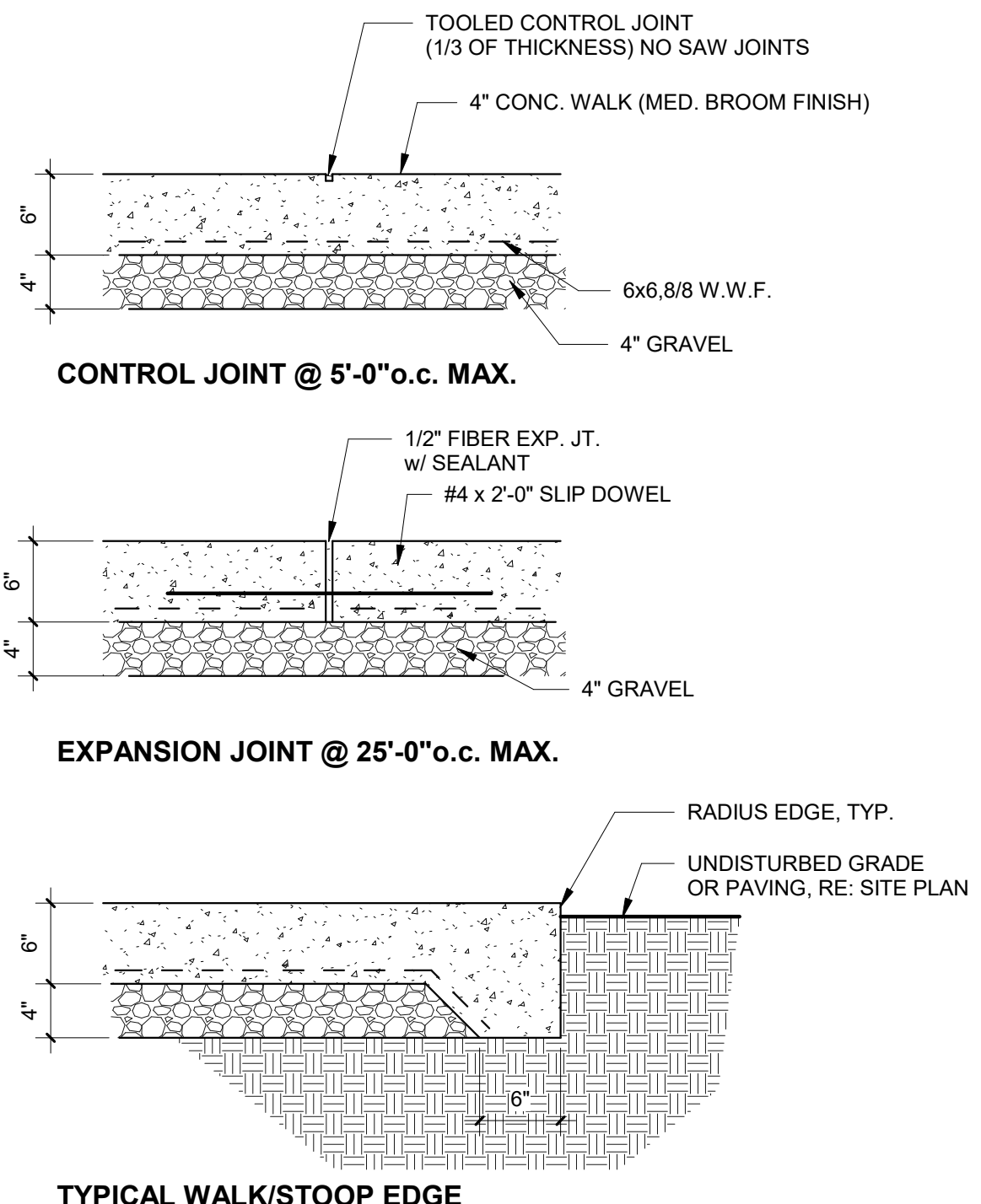
2 RAILING DETAIL
SCALE: 1" = 1'-0"



3 ADA PARKING SIGN
SCALE: 1" = 1'-0"



4 SIDEWALK DETAILS
SCALE: 1" = 1'-0"



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
JEFFREY KIRK ELLISON
REGISTERED ARCHITECT
NUMBER
A-8878
1/21/25

PROFESSIONAL SEAL

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PROJECT #: T2405-01
SITE #: 6256
ASSET#: 8136256005

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 01.21.2025

CAD DWG FILE: _____
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
SITE PLAN AND DETAILS

SHEET NUMBER:

C-101
4 of 26

GENERAL NOTES - STRUCTURAL

- The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. All conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- All design and construction work for this project shall conform to the requirements of the 2015 International Building Code, as amended by the City of Trenton, Missouri.
- These drawings are for this specific project and no other use is authorized.
- Structural Design Load Criteria:
 - Roof Live Load=20 psf
 - Snow: Pg=20psf; Is=1; Pf=15.4psf
 - Lateral Loads:
 - Wind V=122 mph, exposure C
 - Seismic: Se=0.085, Si=0.086, Sds=0.091, S1=0.094, Occupancy Category IV, Is=1.5, Site Classification D (Assumed) Seismic Design Category C
- Concrete:
 - Concrete for footings, grade beams and foundation walls shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 1/2 gallons of water per 100 pounds of cement and not over 4 inches of slump.
 - Concrete for interior slabs shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 550 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
 - The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
 - The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash provided the total minimum cementitious content is not reduced.
 - All interior concrete slabs on grade shall be placed over 15 mil Stego Wrap Vapor Barrier (or approved equal). All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
 - All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
 - Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 225 square feet, or 15 feet on any side.
 - Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
 - Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
 - No aluminum items shall be embedded in any concrete.
- Reinforcing Steel:
 - All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
 - Clear minimum coverage of concrete over reinforcing steel shall be as follows:

Concrete placed against earth	3"
Formed concrete against earth	2"
Slabs	1"
Beams or Columns	1-1/2"
Other	2"

All coverage shall be nominal bar diameter minimum.
 - All dowels shall be the same size and spacing as adjoining main bars (splice lap 40 bar diameters or 24" minimum unless noted otherwise).
 - At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 40 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
 - Bars marked continuous and all vertical steel shall be lapped 40 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
 - At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 30 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
 - Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
 - All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be dovetailed to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 40 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.

Structural Steel:

- All structural steel beams and columns shall be ASTM A492, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel. Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-10 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
- All welding shall conform to the recommendations of the AWS.
- All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned.

Light Gauge Structural Stud Framing:

- All load bearing, light gauge structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans.
- All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 40,000 psi.
- All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
- All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
- Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
- Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

Shop Drawing Review:

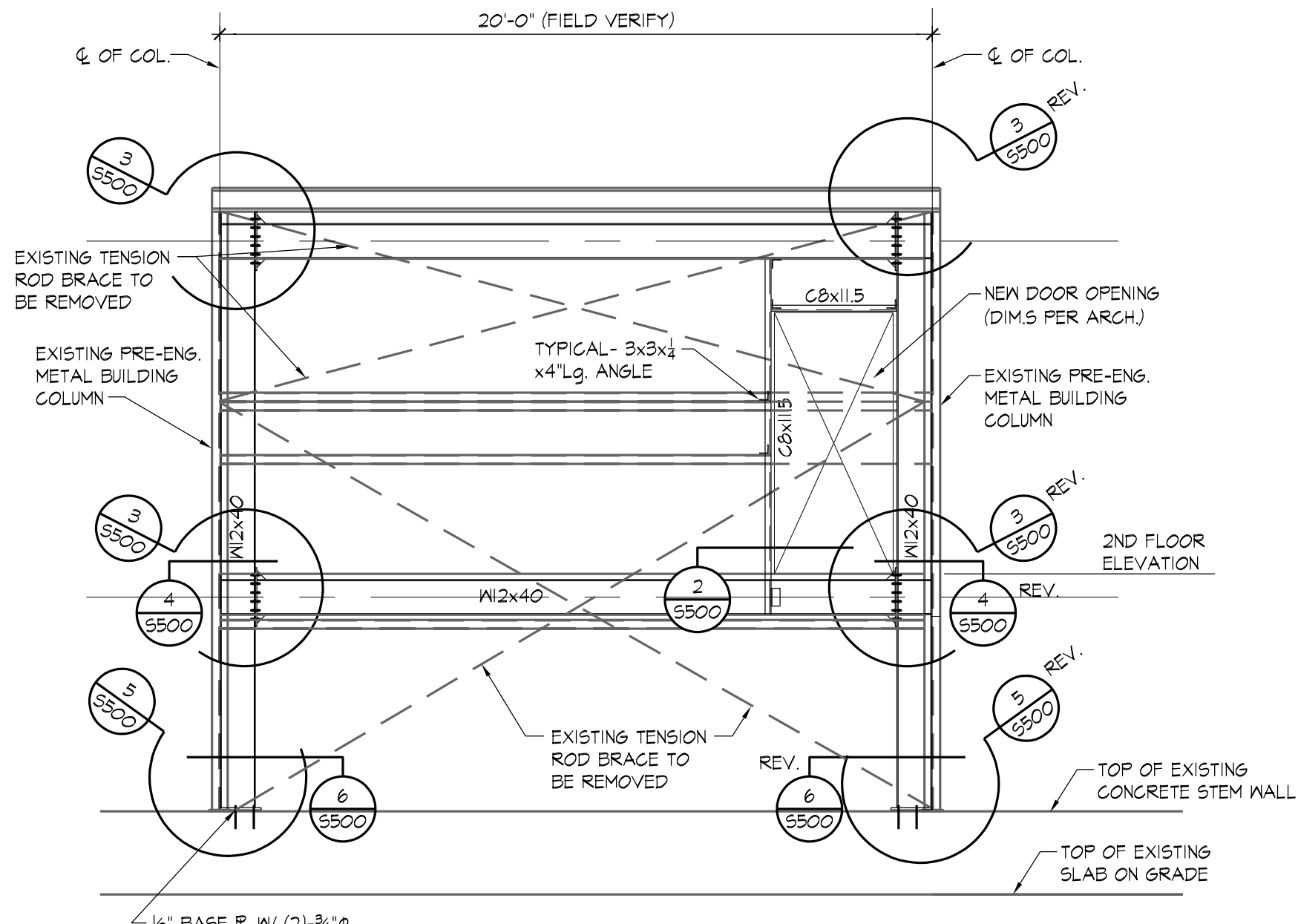
- Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the detail of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
 - Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
 - Review and approve each submission.
 - Stamp each submission as approved.
- Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
- Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
 - Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
 - Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
 - Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
 - Structural steel connection design calculations.
 - Miscellaneous anchors shown on the structural drawings.
 - Standard details and bridging information for light gauge metal framing. Erection plans and details for light gauge metal joists and lintels spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted.
- Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

Structural Special Inspection:

- The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2015 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- Special inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
 - Placement of Concrete
 - Testing of Concrete
 - Boles in Concrete
 - Placement of Reinforcing Steel
 - High Strength Bolting
 - Drill & Epoxy Bolts
 - Structural Welding
 - Steel Frame Inspection
 - Shop Fabrication of Structural Steel
- The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
- The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

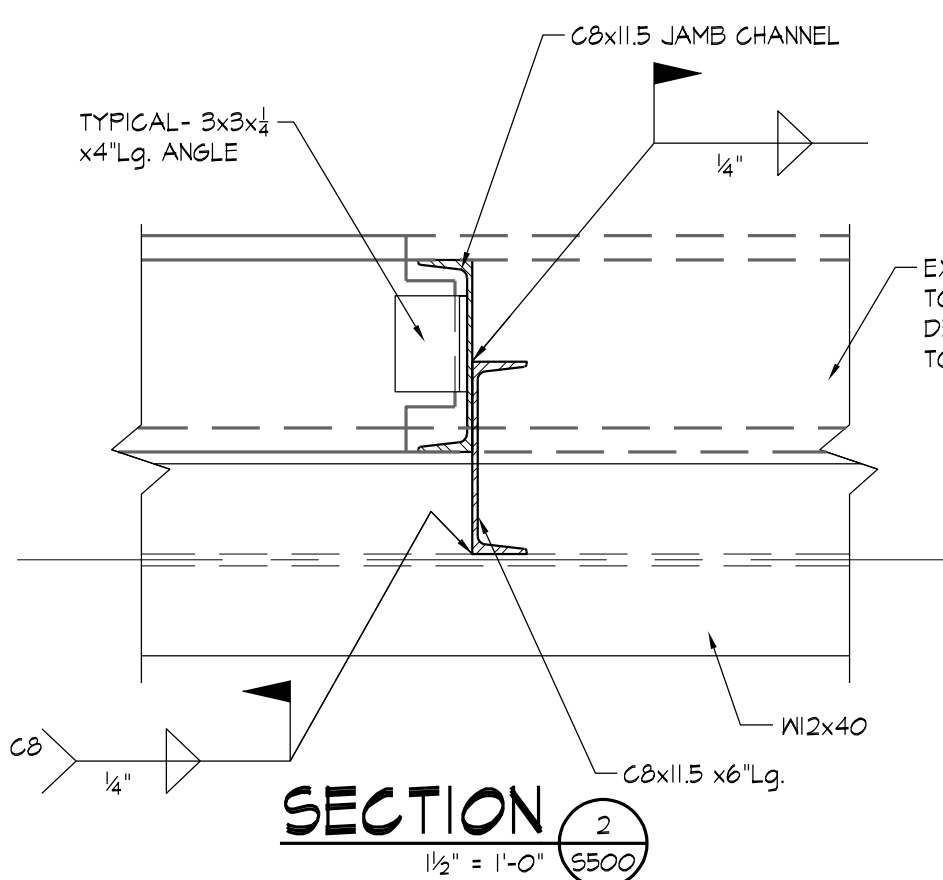
Copyright and Disclaimer:

- All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and Company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- I, Clark A. Basinger, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

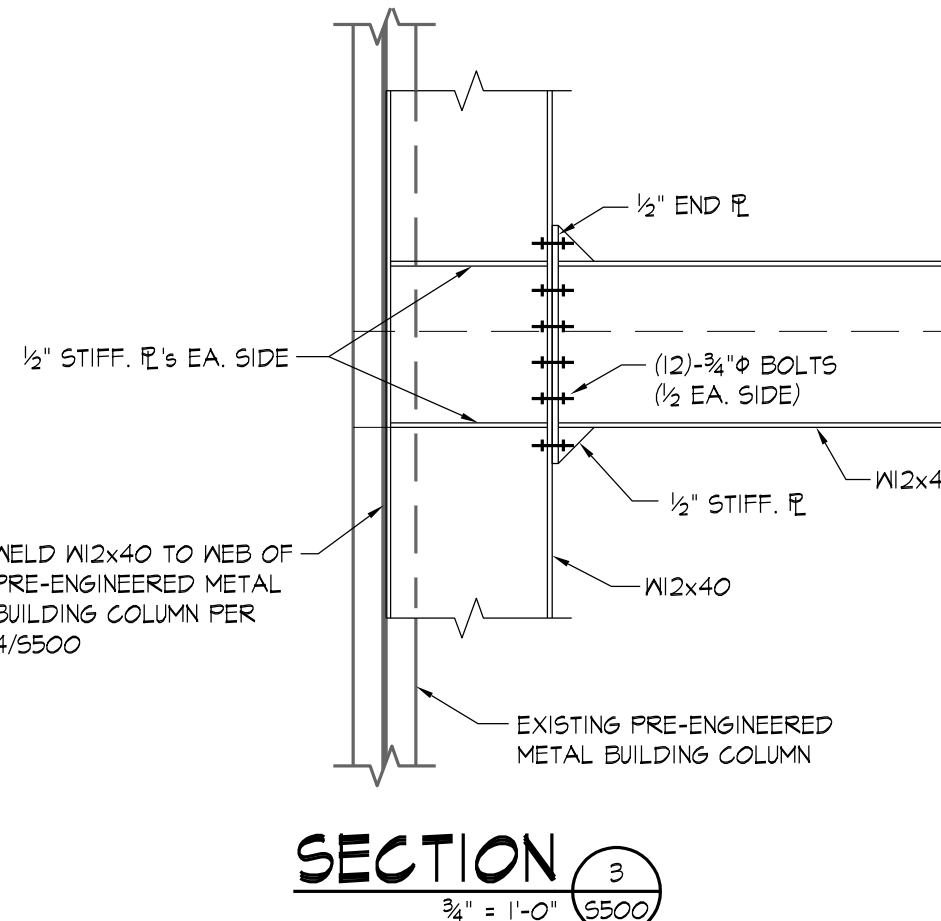


ELEVATION 1
14' = 1'-0" (5500)

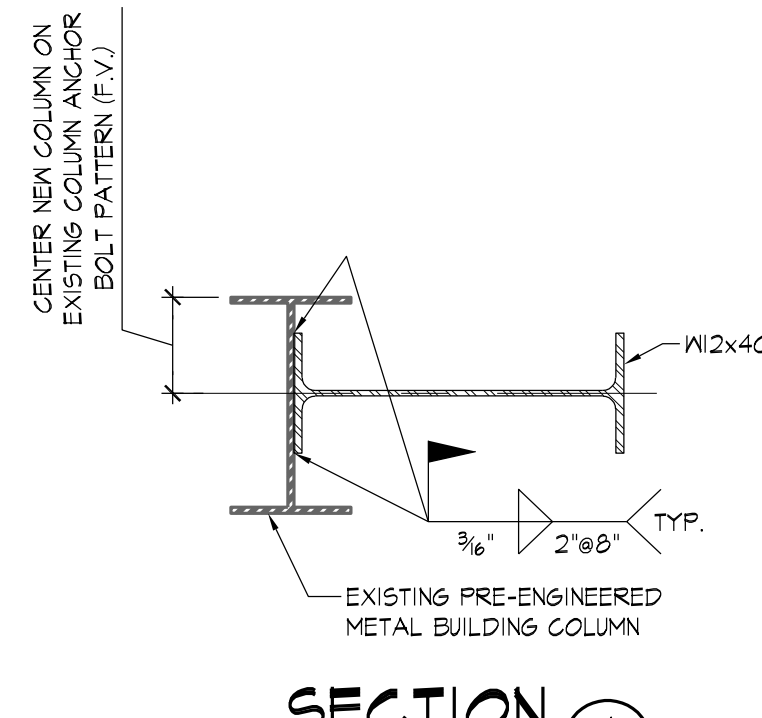
NOTE:
FIELD VERIFY ALL EXISTING DIMENSIONS.



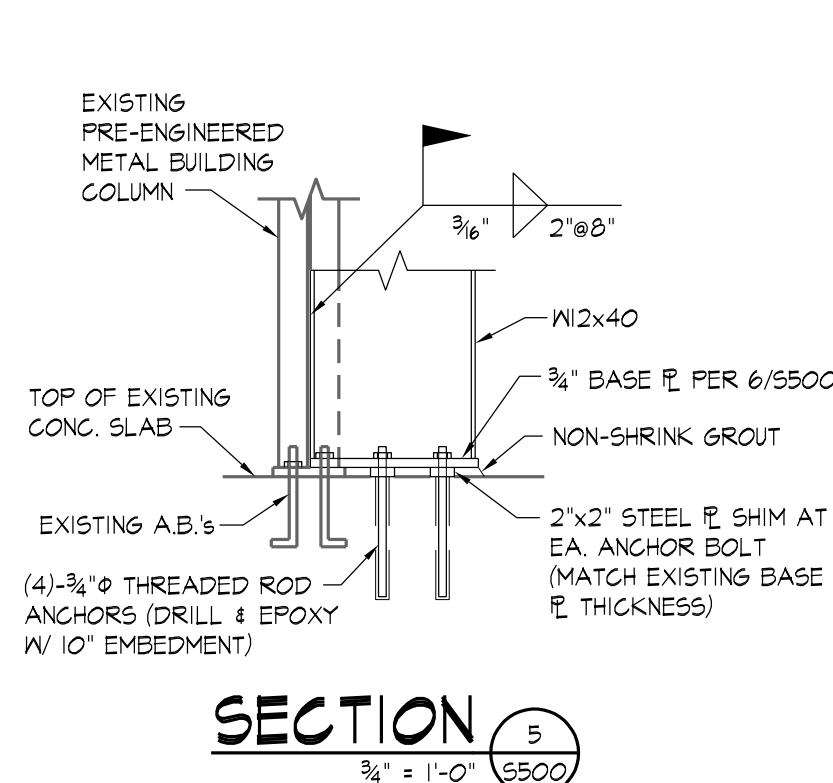
SECTION 2
1/2" = 1'-0" (5500)



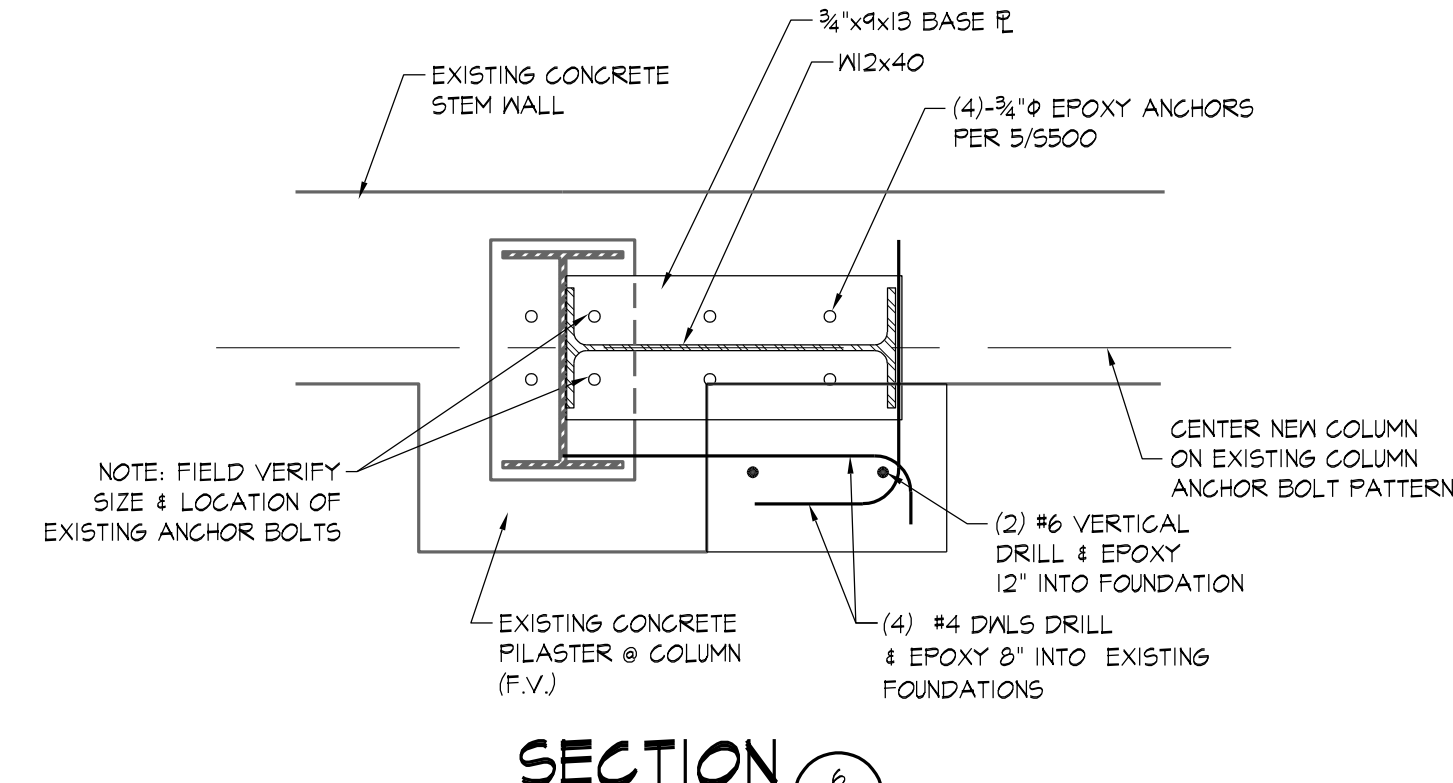
SECTION 3
3/4" = 1'-0" (5500)



SECTION 4
1/2" = 1'-0" (5500)



SECTION 5
3/4" = 1'-0" (5500)



SECTION 6
1/2" = 1'-0" (5500)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



ELLISON - AUXIER
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

MISSOURI NATIONAL GUARD

TRENTON READINESS
CENTER - RENOVATE
INTERIOR & EXTERIOR
922 INDUSTRIAL DRIVE
TRENTON, MO 64683

PROJECT #: T2405-01
SITE #: 6256
ASSET#: 8136256005

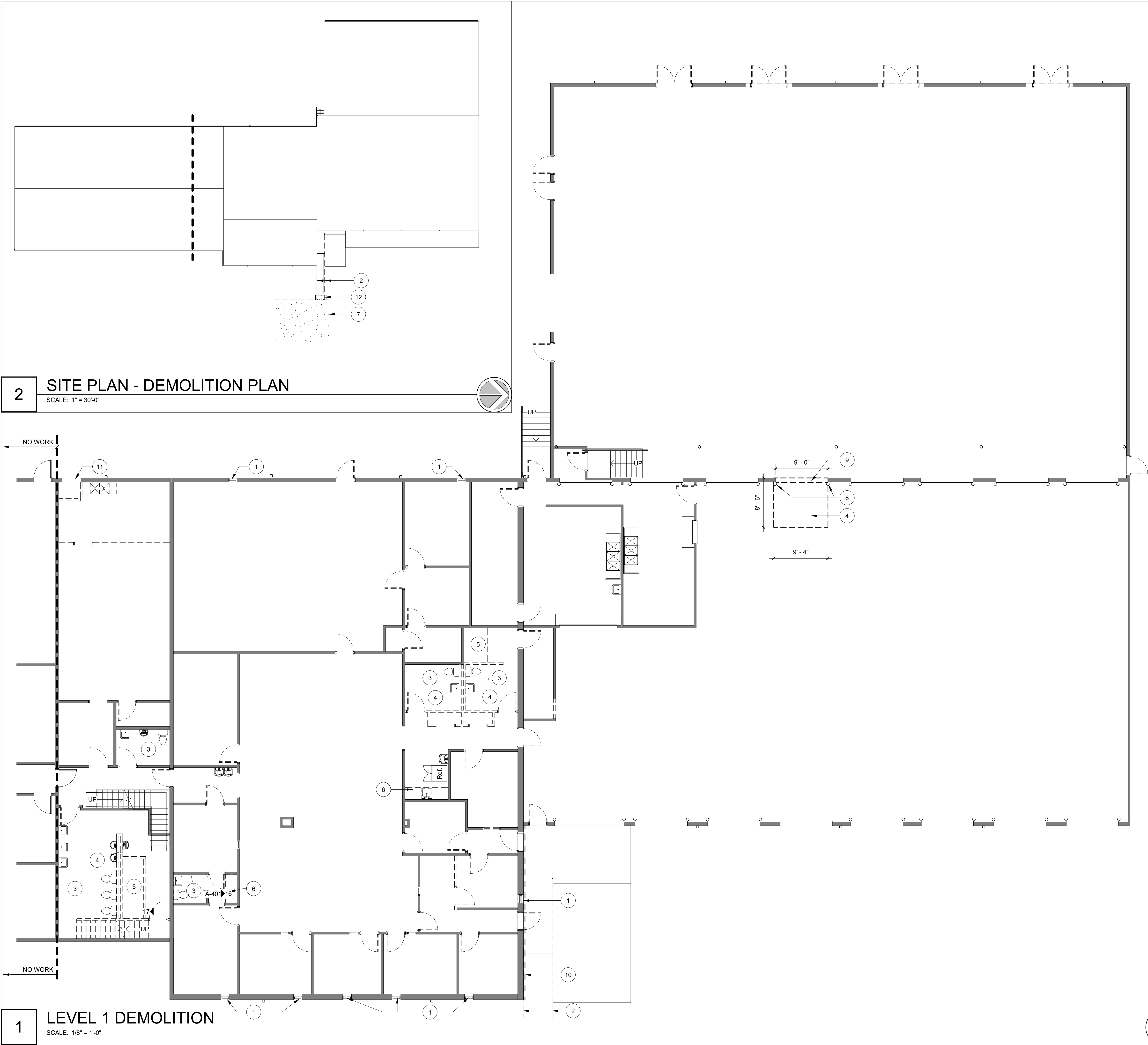
REVISION:
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: _____

CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
**STRUCTURAL
FRAMING**

SHEET NUMBER:

S500

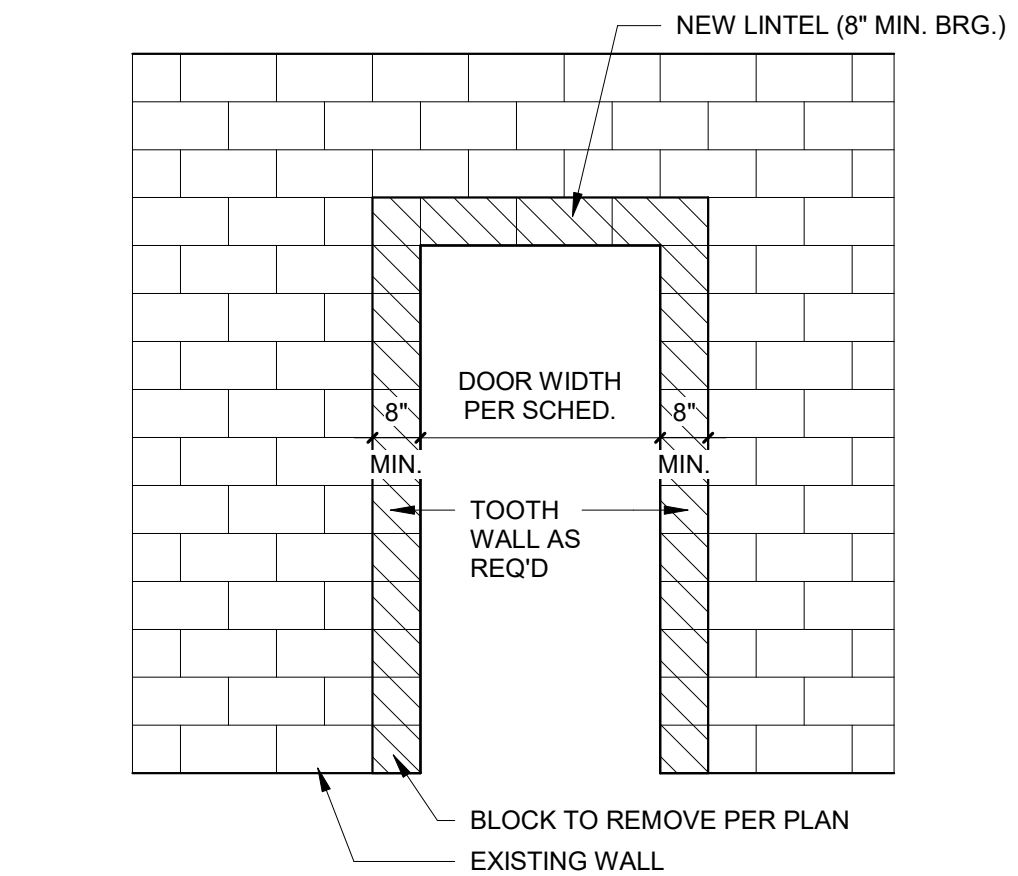


LEGEND

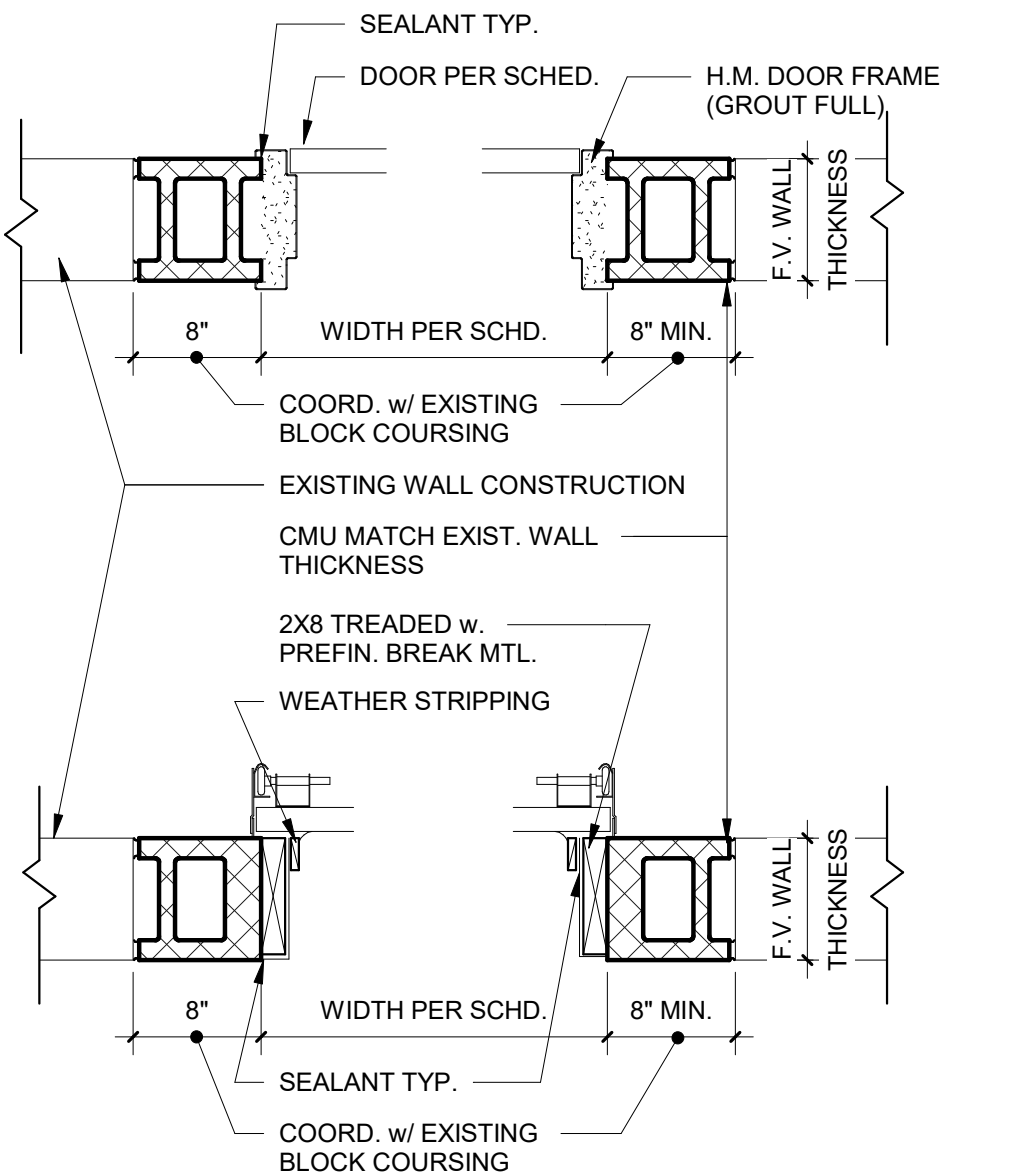
	EXISTING WALL TO REMAIN		EXISTING WALL TO BE REMOVED
	NEW WALL		EXISTING WINDOW TO BE REMOVED
	EXISTING WINDOW TO REMAIN		NEW WINDOW
	EXISTING DOOR TO REMAIN		EXISTING DOOR TO BE REMOVED
	NEW DOOR		

- GENERAL NOTES:**
1. REMOVE ALL PREFIN. GYP. BD.
 2. REMOVE ALL WD. PANELING
 3. REMOVE ALL VCT AND CARPET
 4. REMOVE ALL CEILING TILES AND CEILING GRID
 5. PATCH WALLS, FLOORS, AND CEILINGS AS NEEDED AFTER DEMO
 6. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS

DEMOLITION NOTES	
NUMBER	NOTE
1	REMOVE AND REPLACE EXISTING WINDOW
2	REMOVE AND REPLACE GUARDRAIL AND HAND RAIL
3	REMOVE ALL PLUMBING FIXTURES AND ACCESSORIES
4	REMOVE EXISTING CONC. FLOOR
5	REMOVE ALL CERAMIC TILE
6	REMOVE CASEWORK
7	REMOVE AND REPLACE ENTIRE EXISTING ADA PARKING CONC.
8	REMOVE EXISTING BOLLARDS
9	REMOVE EXISTING OVERHEAD DOOR AND TRACK, REMOVE EXISTING CONC. FOUNDATION WALL
10	REMOVE EXISTING METAL PANEL 3' A.F.F.. REPLACE WITH NEW METAL PANEL. SALVAGE REMOVED PANEL FOR PATCHING OVER SOFFIT LIGHT REMOVAL
11	REMOVE EXISTING CONC. STEM WALL AND REWORK EXISTING MTL. PANELS FOR NEW DOOR. RELOCATE EXISTING EQUIPMENT ON WALL.
12	REMOVE AND REPLACE BOTTOM 3'-0" CONC RAMP AND CURB, RE: DETAIL ON A-601



3 DEMO FOR NEW OPENING
SCALE: 3/8" = 1'-0"



4 DEMO FOR NEW OPENING PLAN
SCALE: 1" = 1'-0"

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REVISION: _____
DATE: _____
ISSUE DATE: 01.21.2025

CAD DWG FILE: _____
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
DEMOLITION LEVEL 1

SHEET NUMBER:

KEY PLAN

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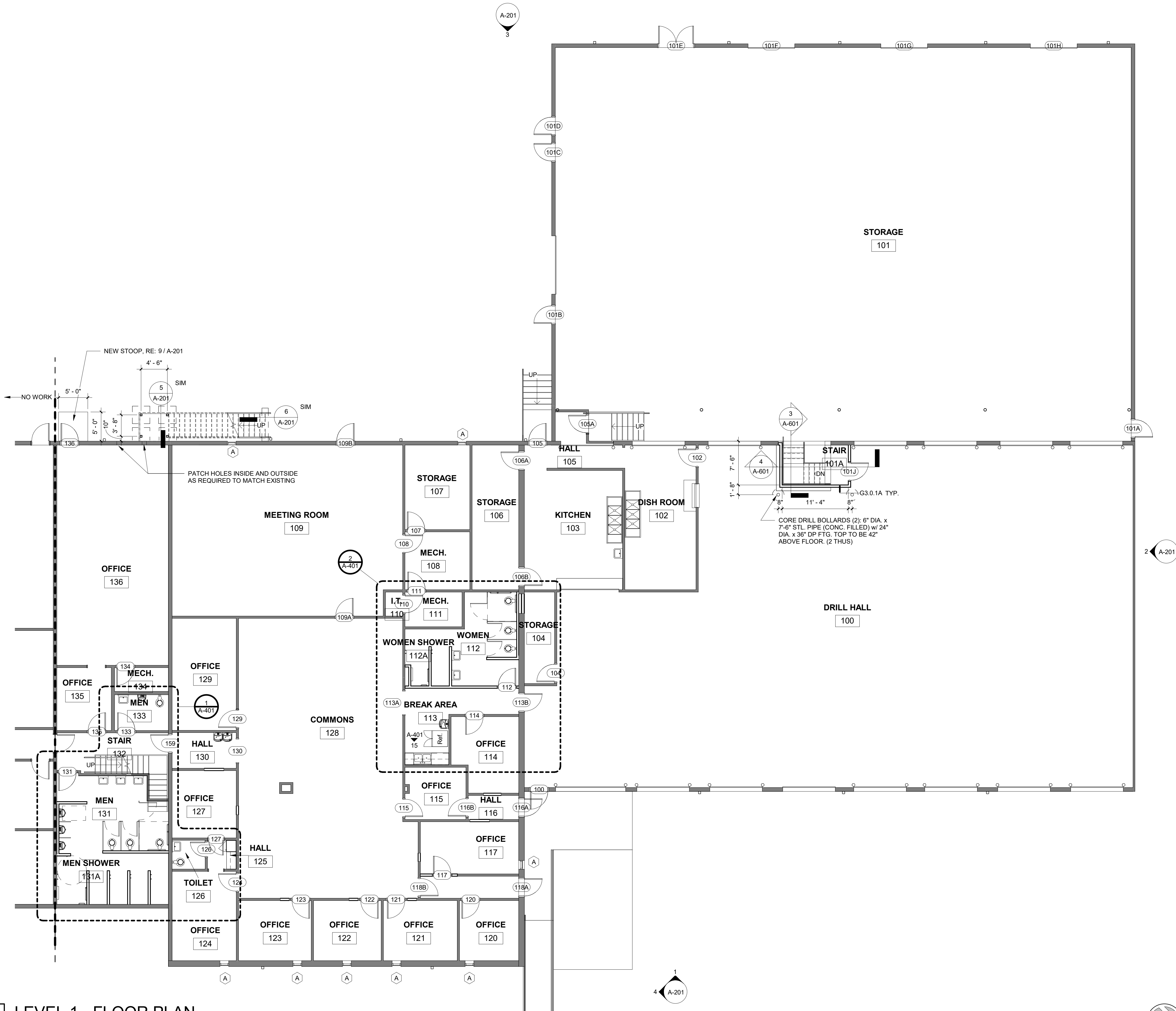
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 DRAWN BY: AML
 CHECKED BY: JKE
 DESIGNED BY: JKE

SHEET TITLE:
LEVEL 1 - FLOOR PLAN

SHEET NUMBER:

A-101

7 of 26



1

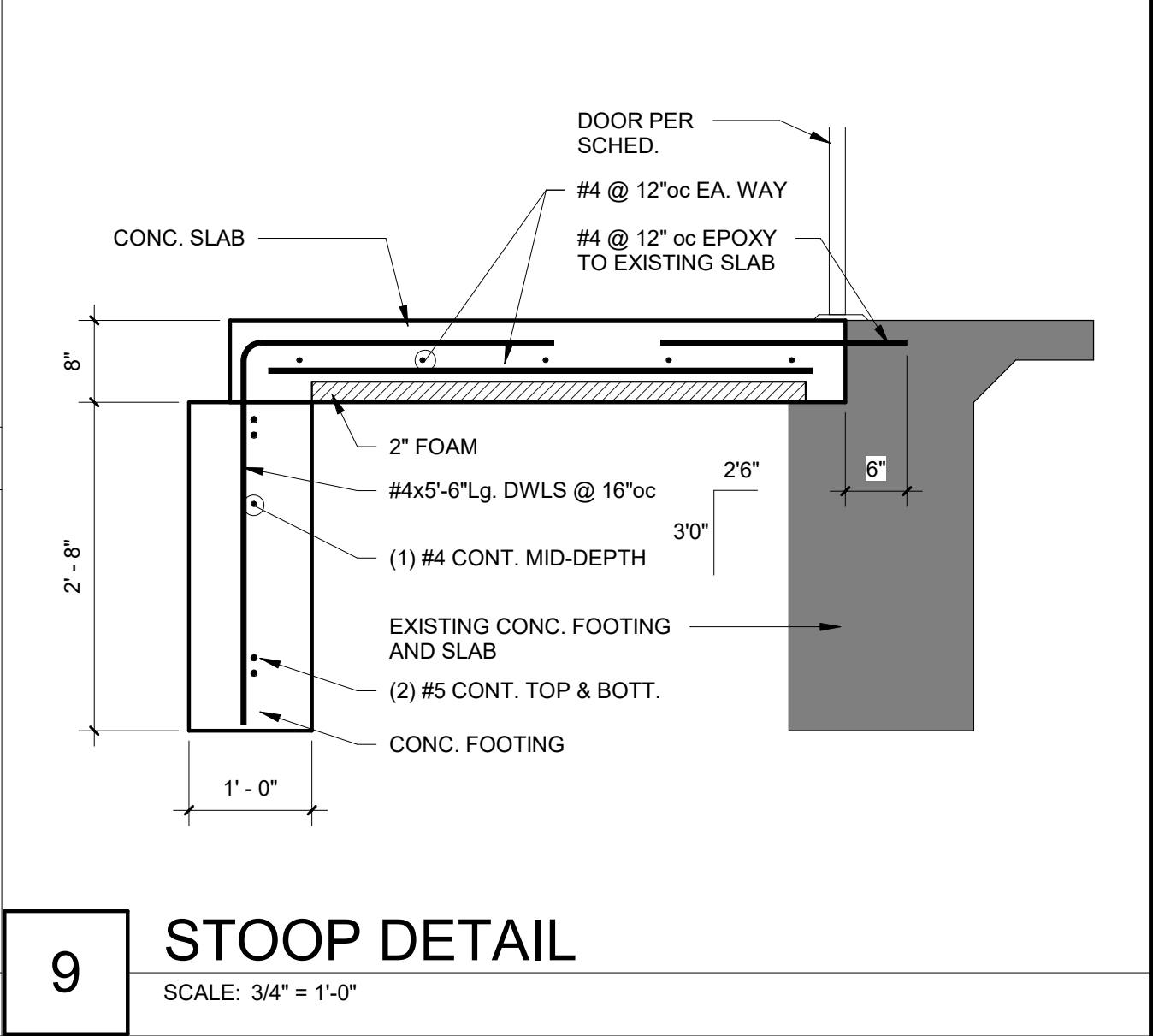
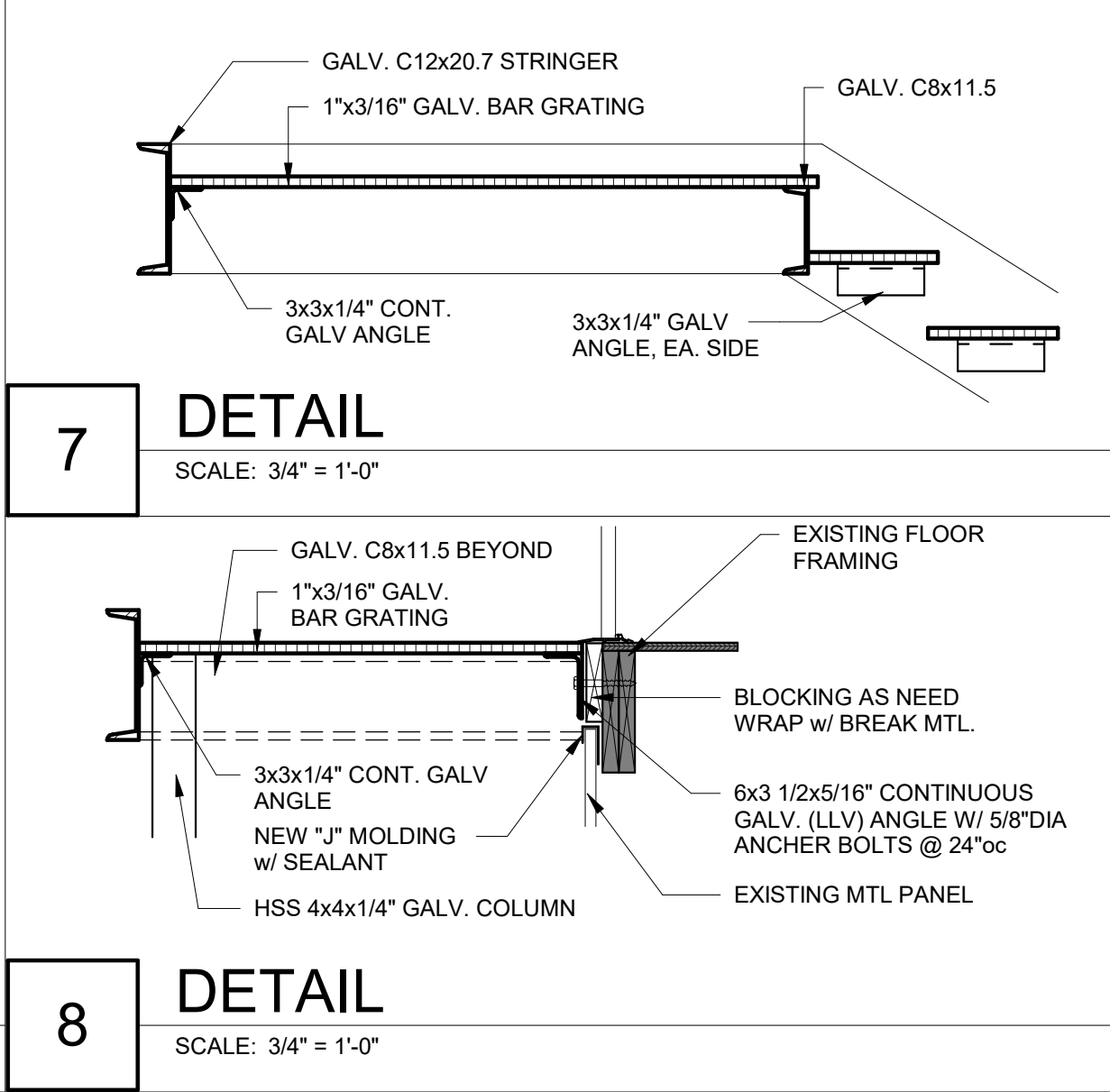
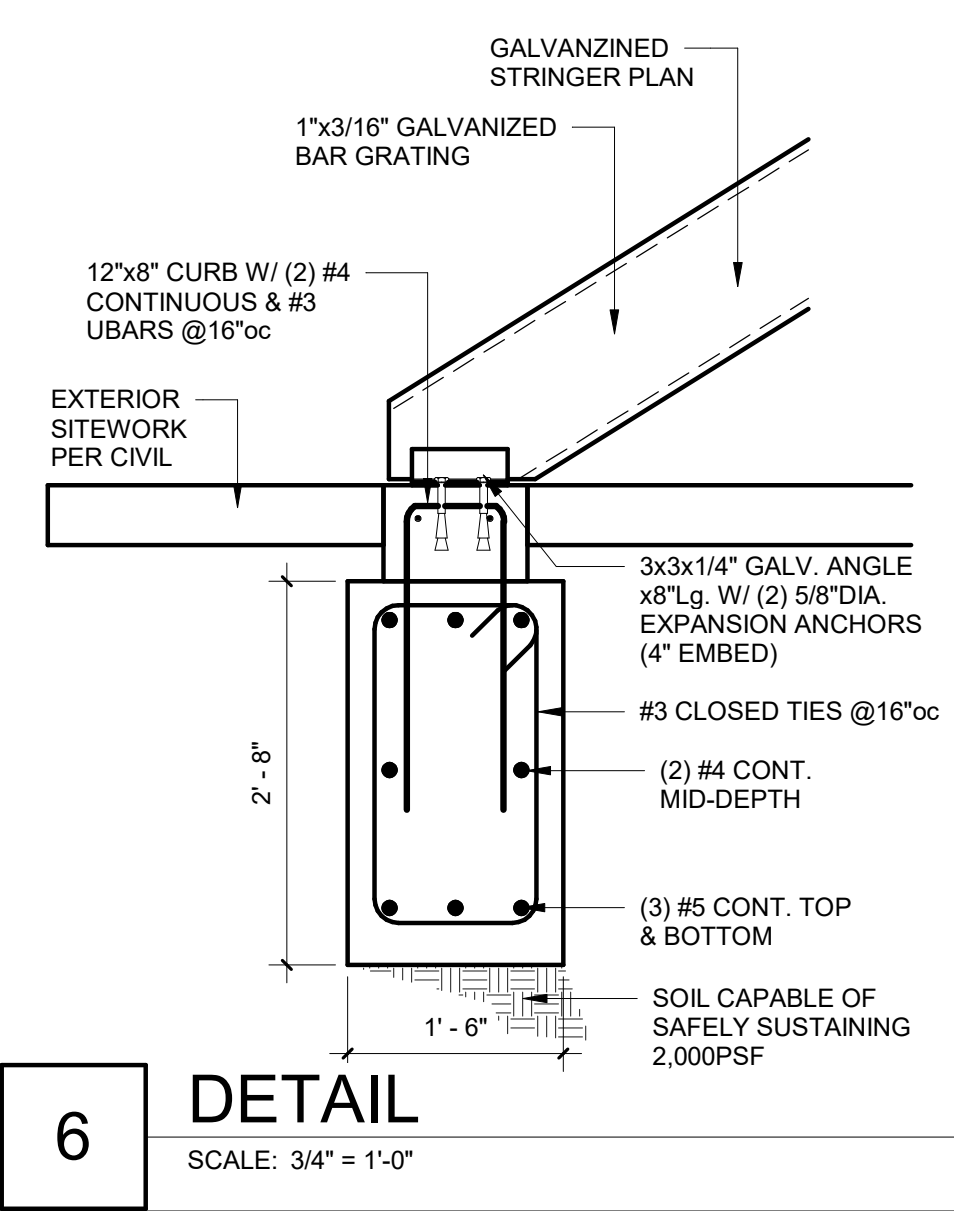
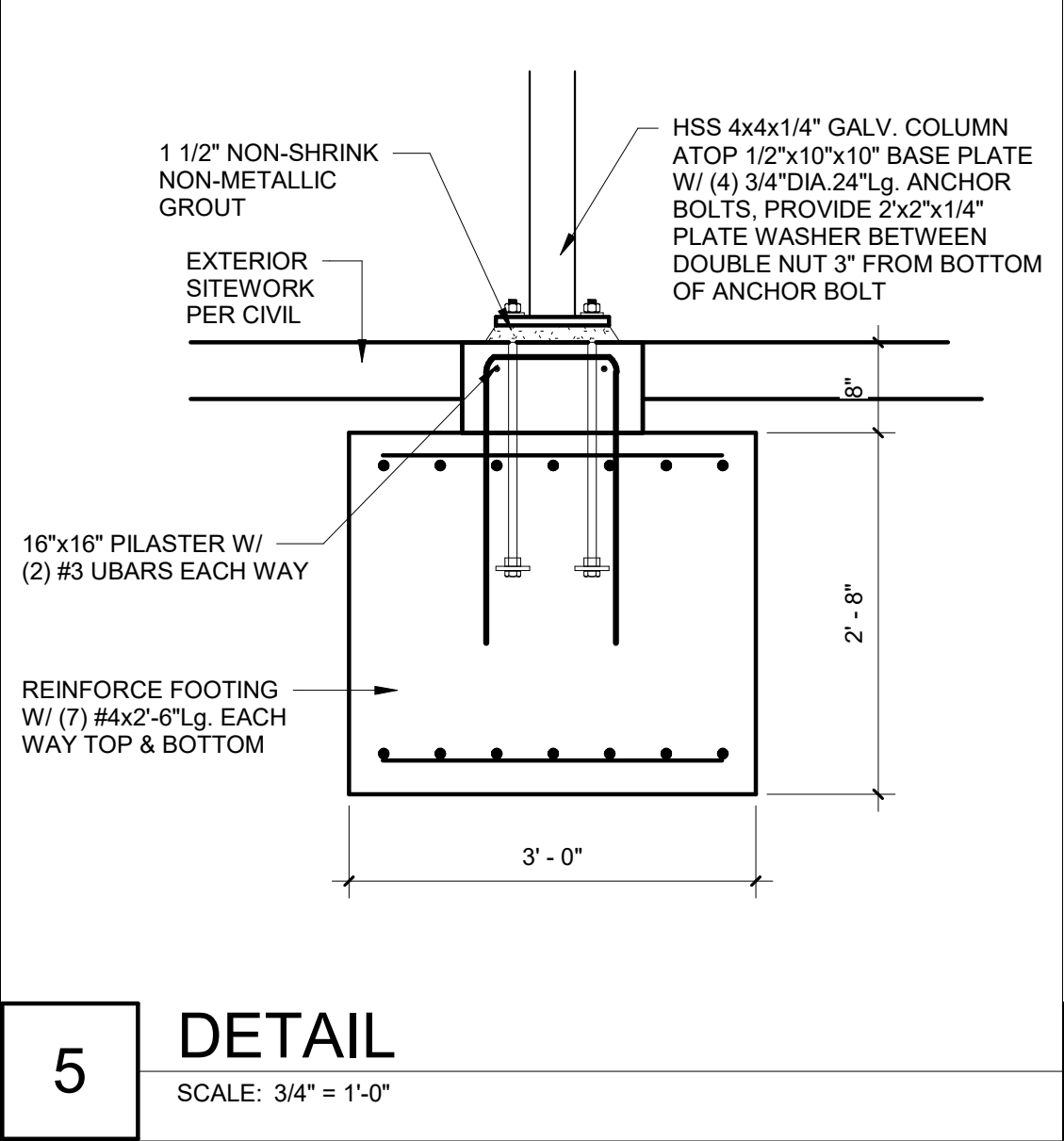
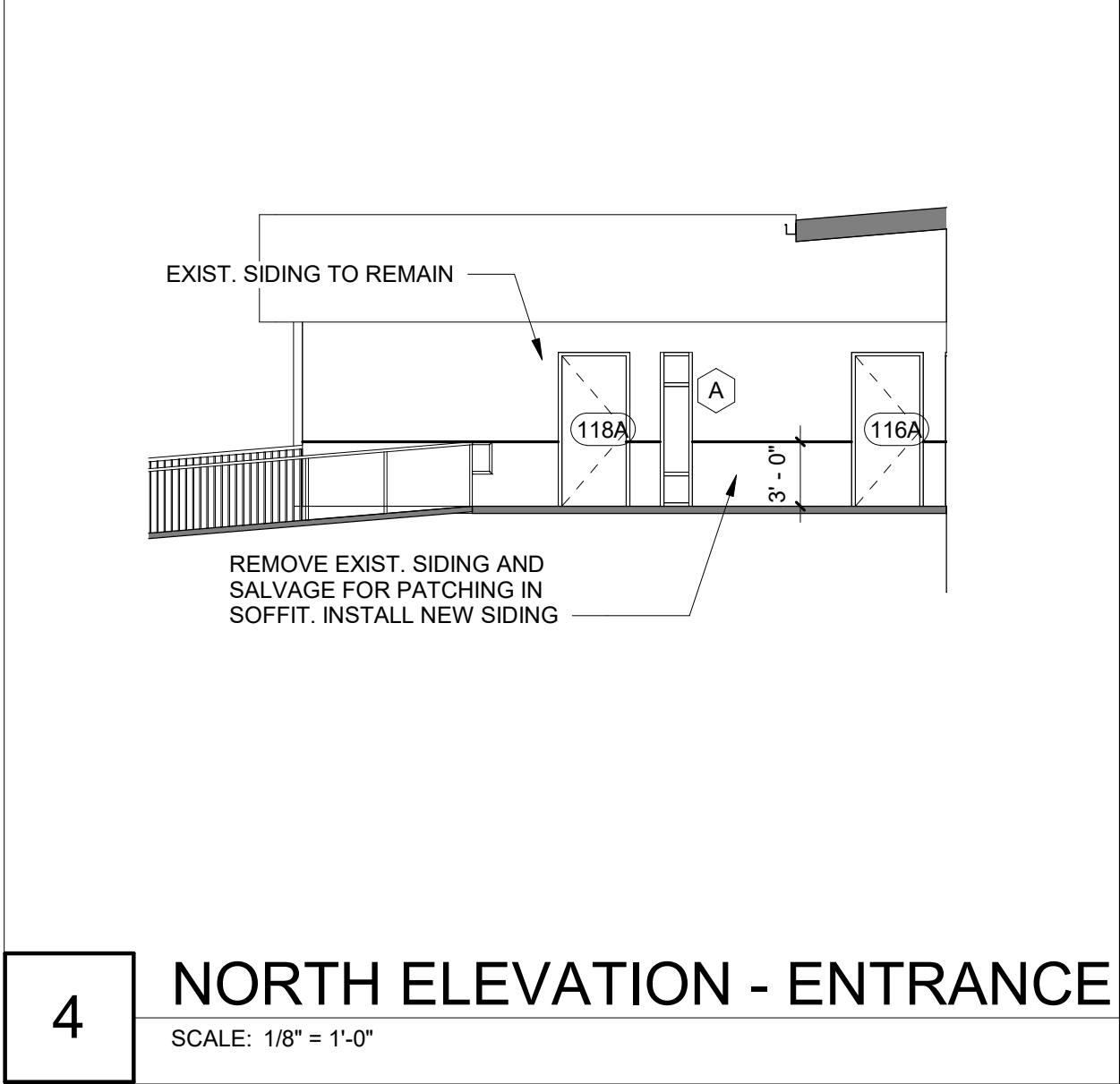
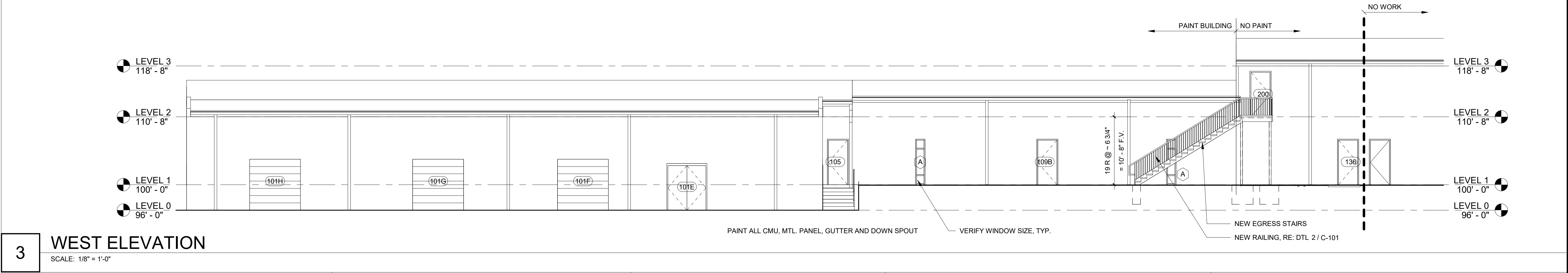
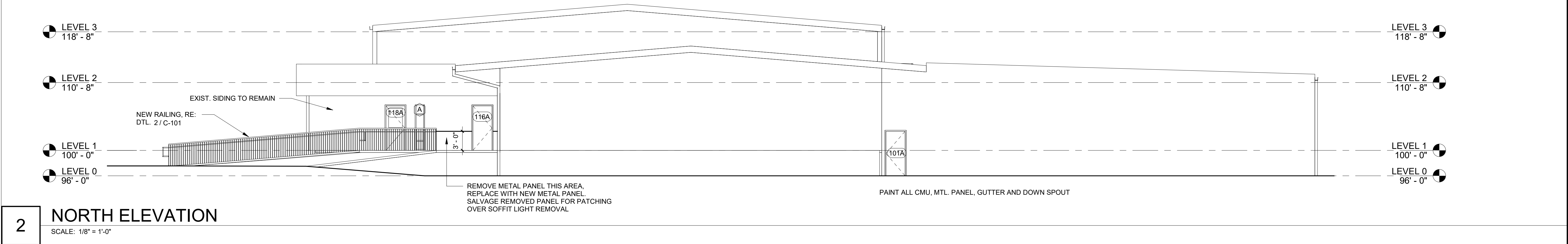
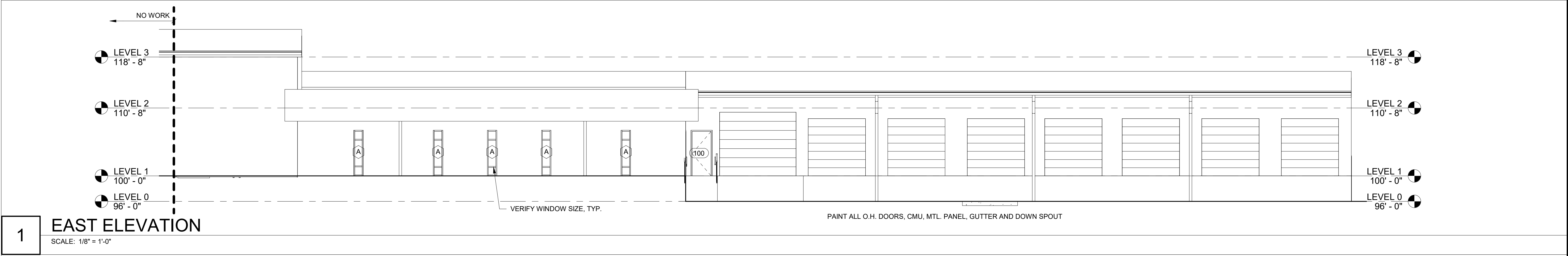
LEVEL 1 - FLOOR PLAN

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

2

LEVEL 2

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



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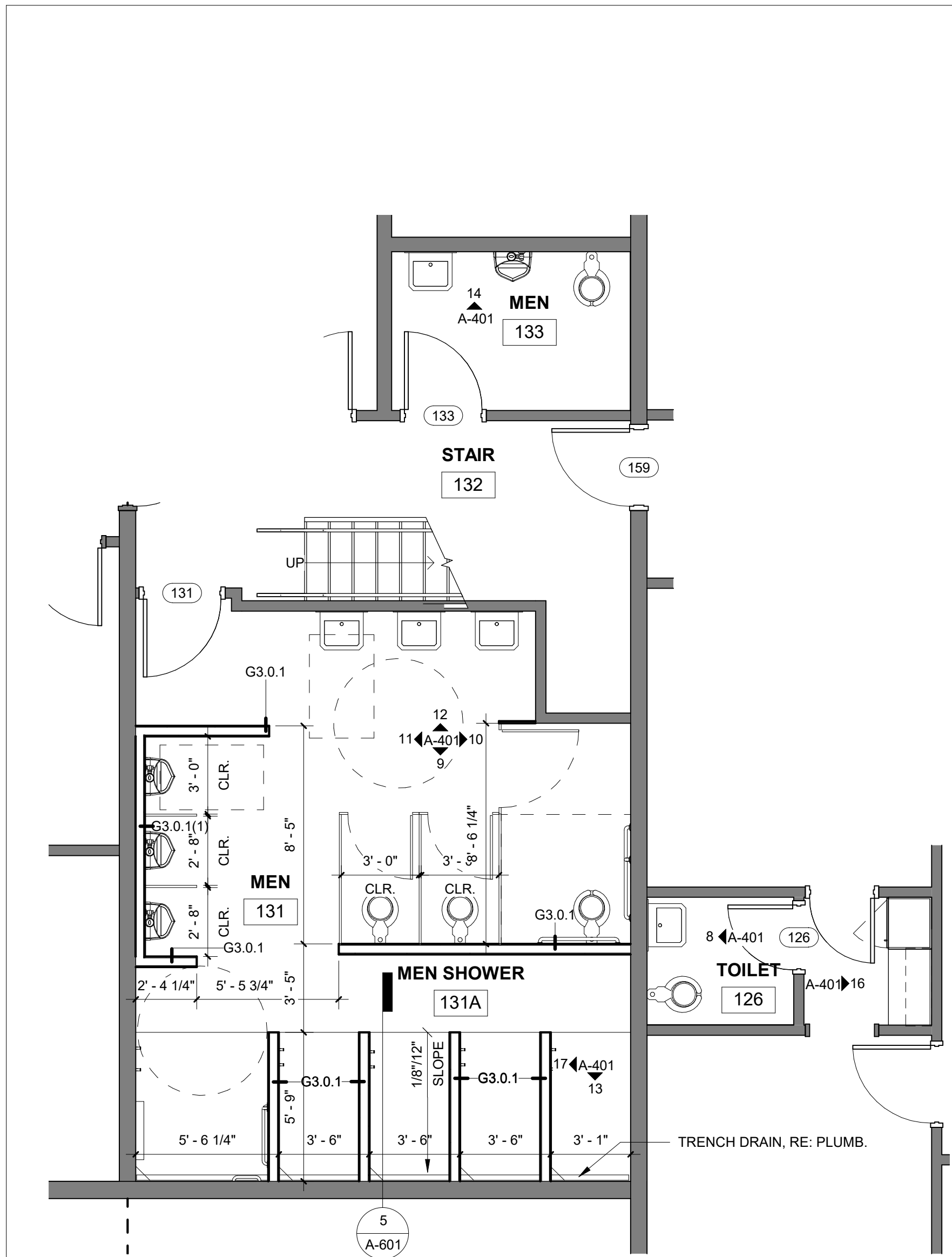
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DRAWN BY: AML
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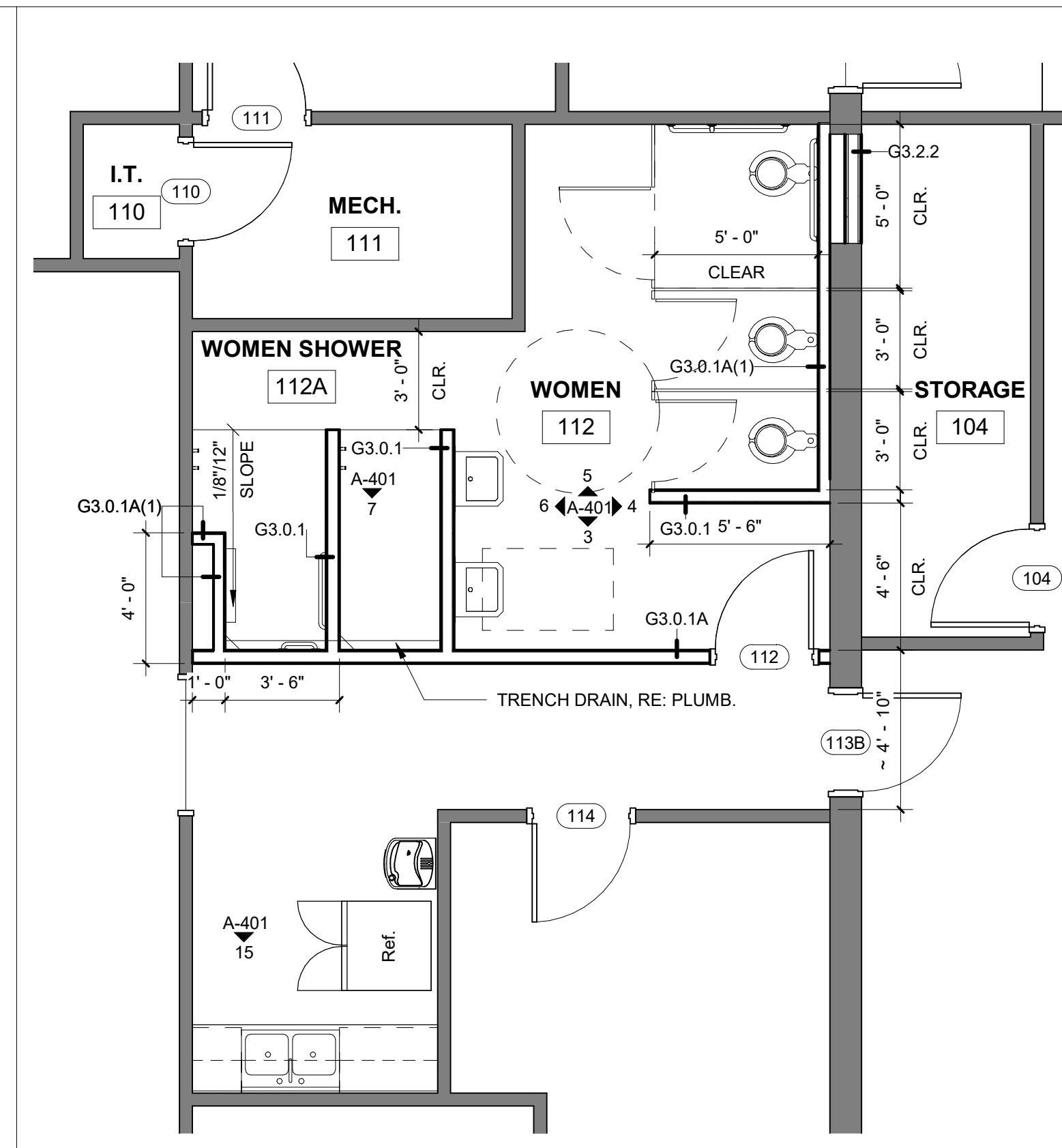
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:

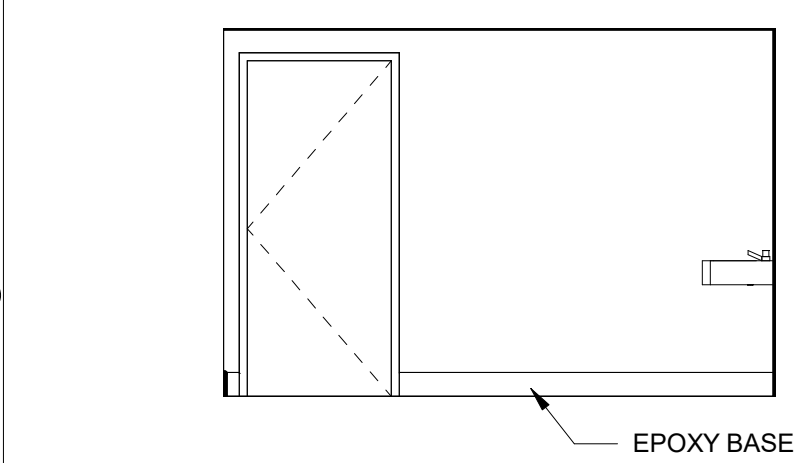
A-201
8 of 26



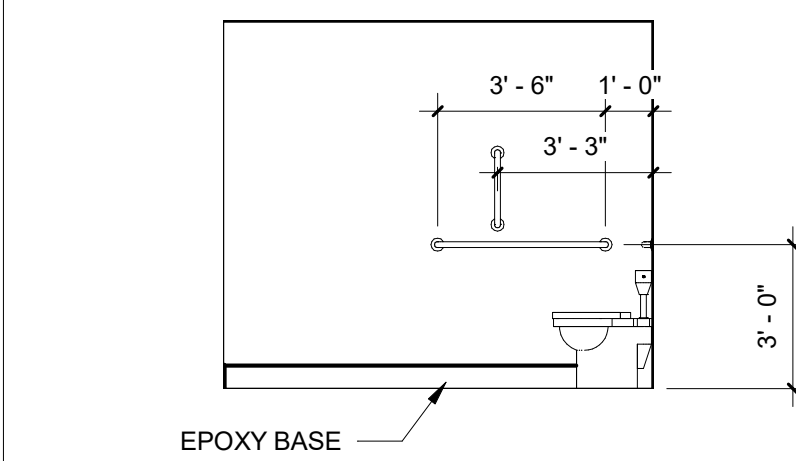
1 ENLARGED PLAN - RESTROOMS
SCALE: 1/4" = 1'-0"



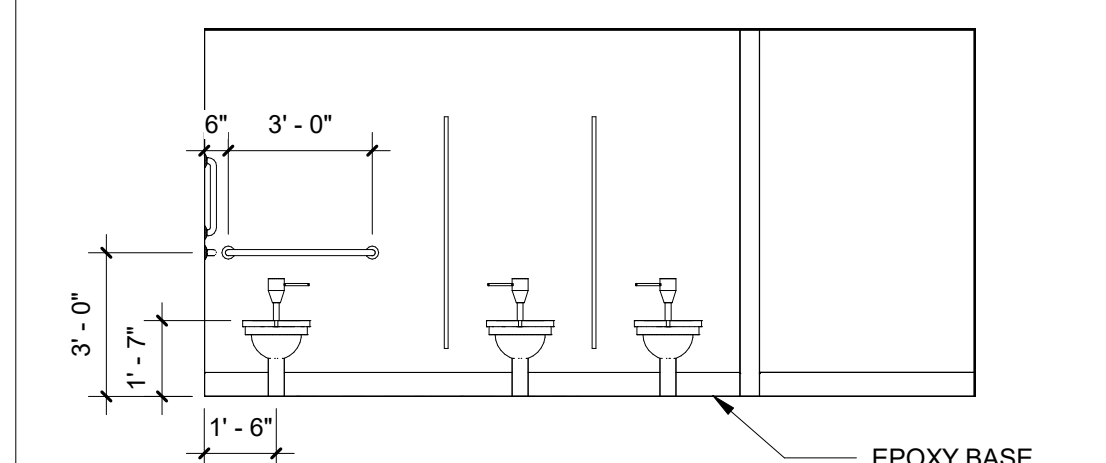
2 ENLARGED PLAN WOMEN RESTROOMS
SCALE: 1/4" = 1'-0"



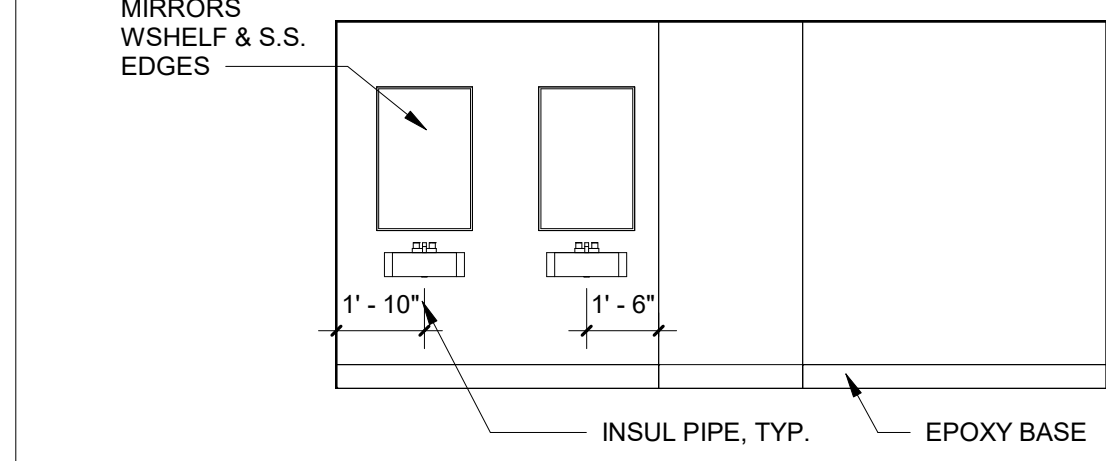
3 WOMEN 112 EAST
SCALE: 1/4" = 1'-0"



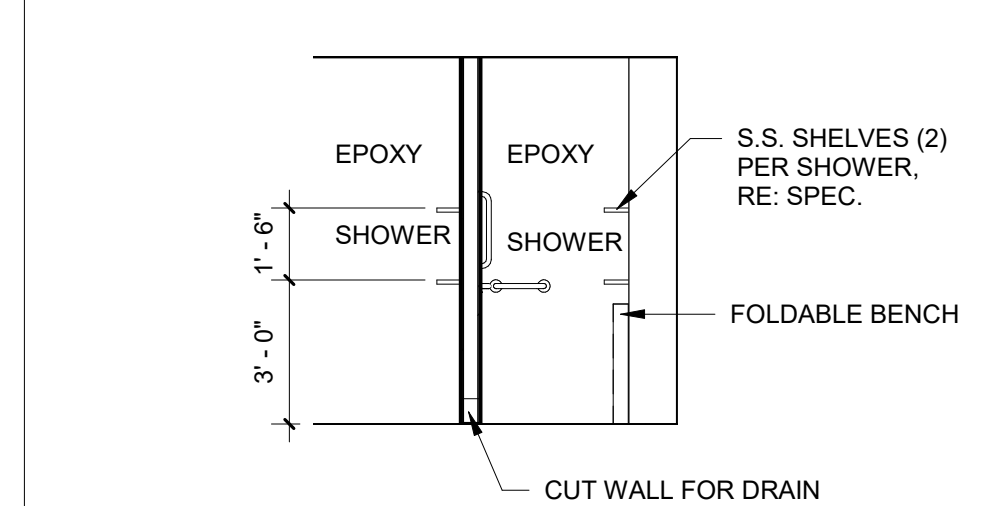
5 WOMEN 112 WEST
SCALE: 1/4" = 1'-0"



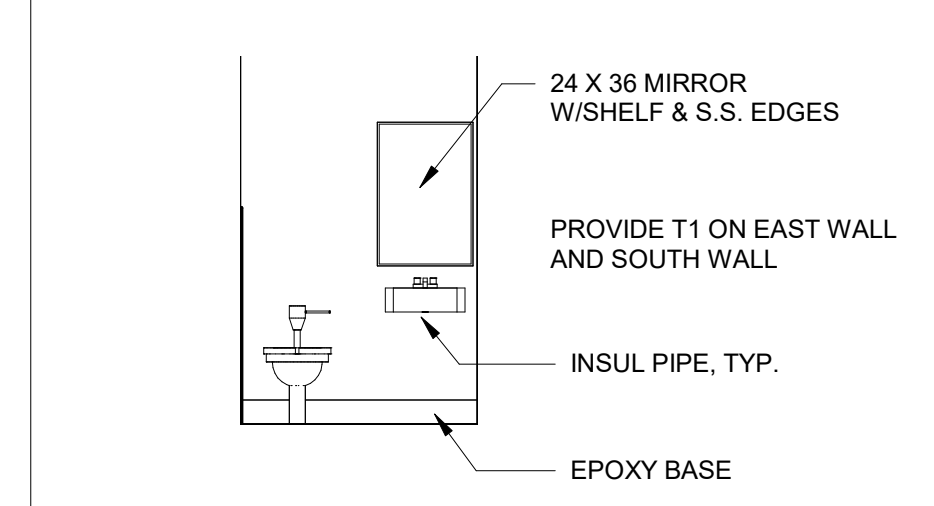
4 WOMEN 112 NORTH
SCALE: 1/4" = 1'-0"



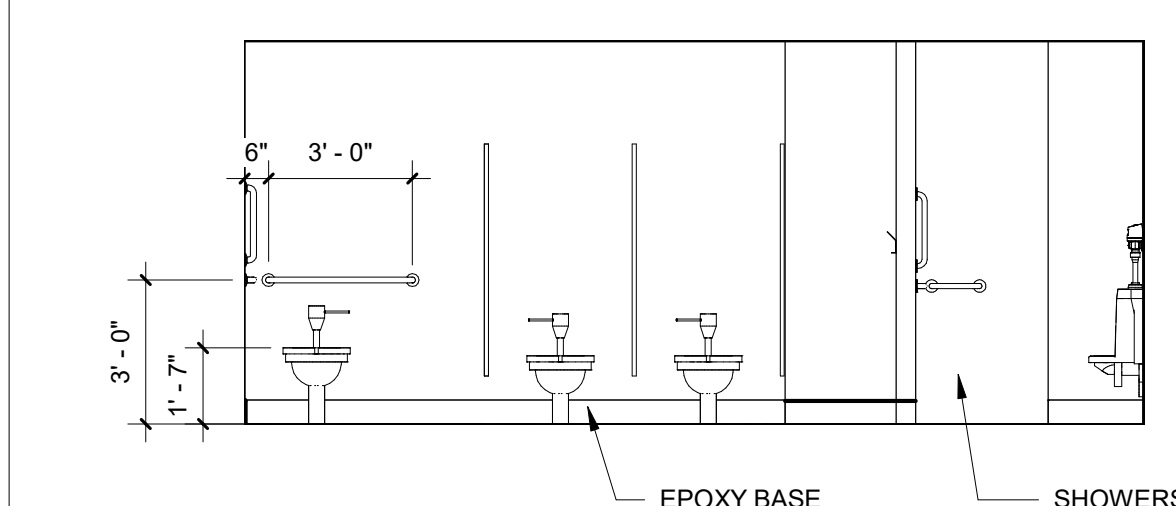
6 WOMEN 112 SOUTH
SCALE: 1/4" = 1'-0"



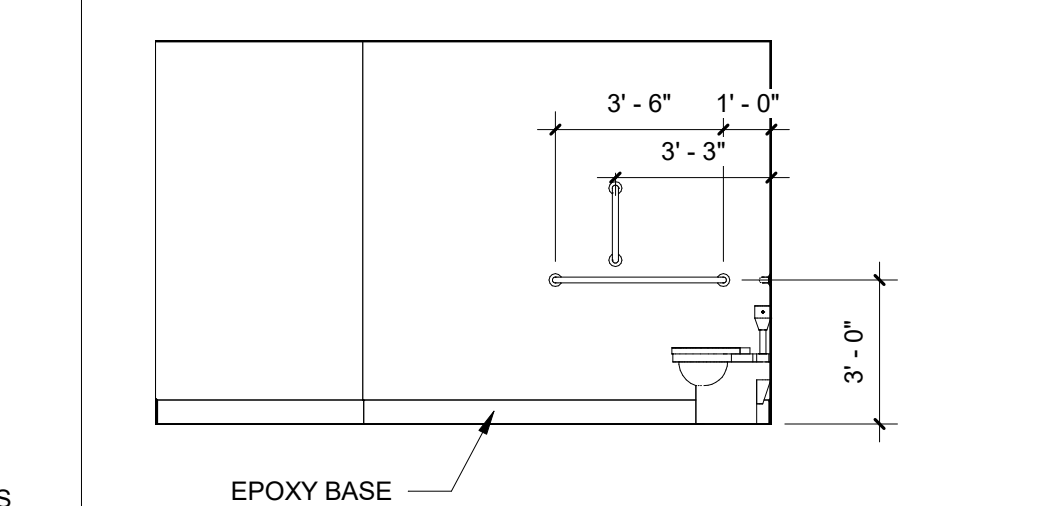
7 WOMEN SHOWER 112A EAST
SCALE: 1/4" = 1'-0"



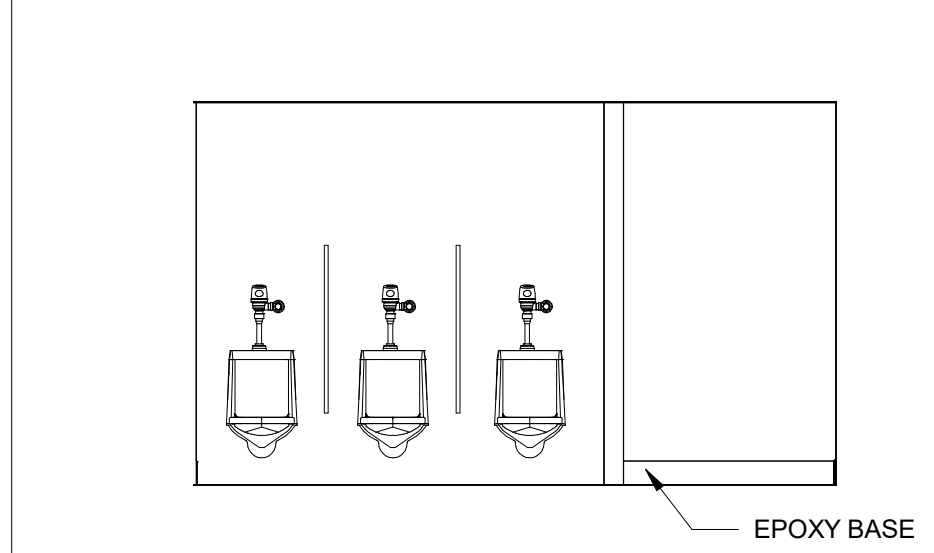
8 TOILET 126 SOUTH
SCALE: 1/4" = 1'-0"



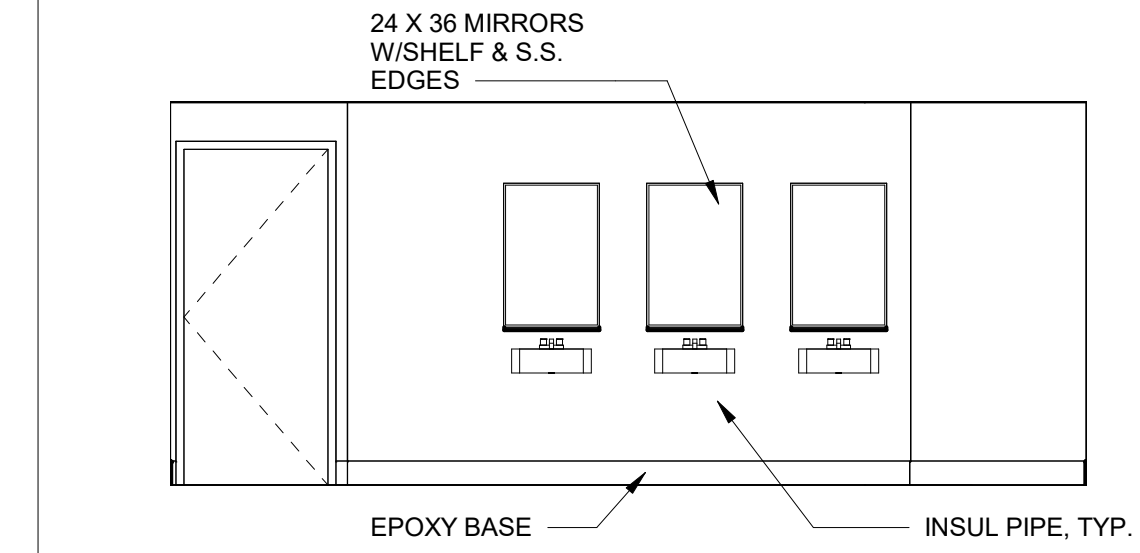
9 MEN 131 EAST
SCALE: 1/4" = 1'-0"



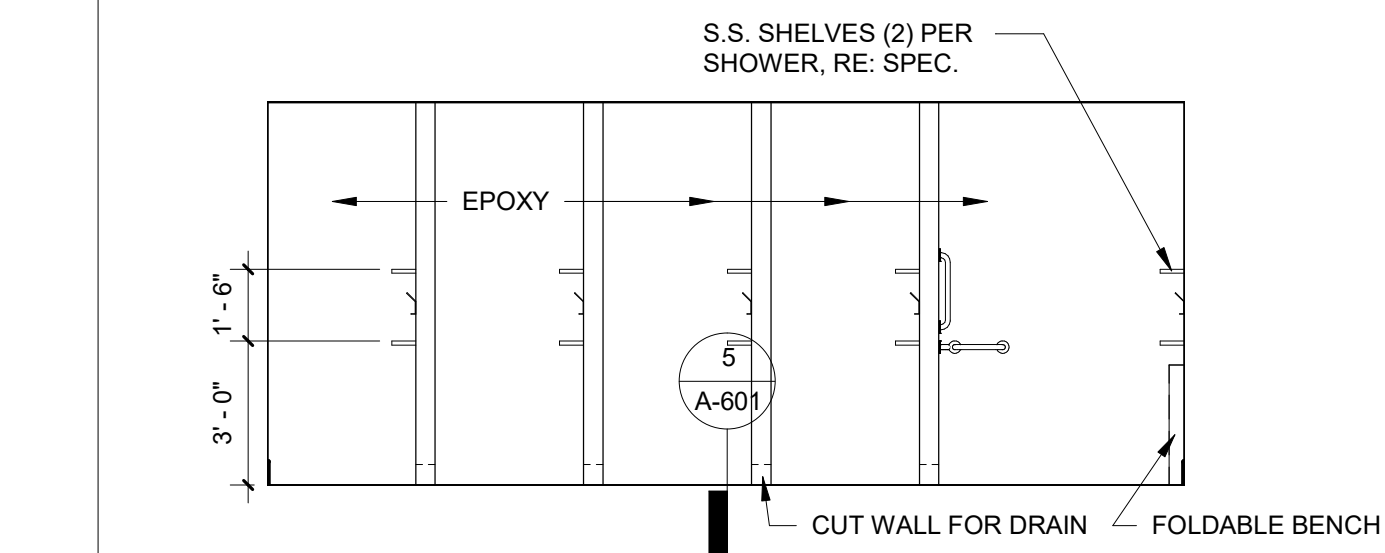
10 MEN 131 NORTH
SCALE: 1/4" = 1'-0"



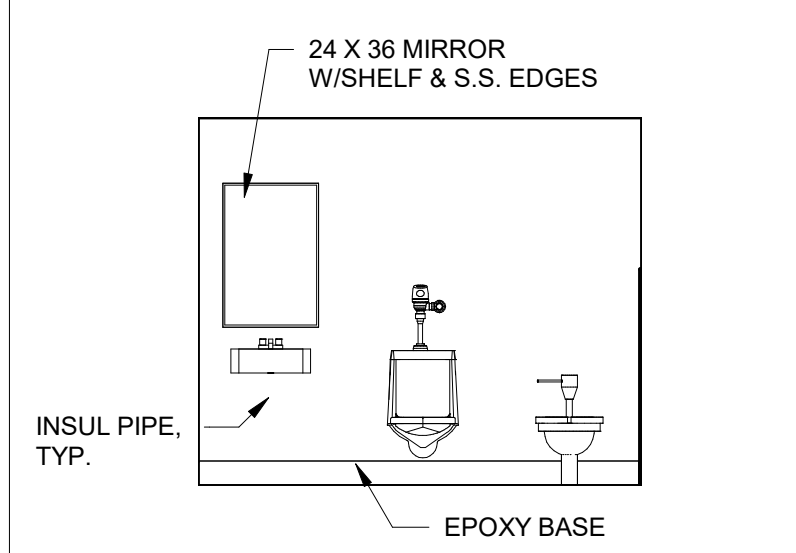
11 MEN 131 SOUTH
SCALE: 1/4" = 1'-0"



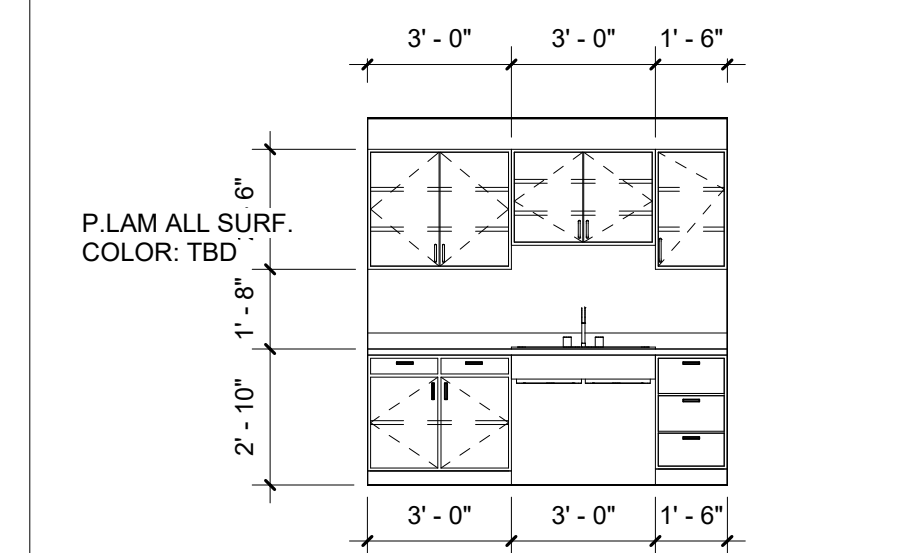
12 MEN 131 WEST
SCALE: 1/4" = 1'-0"



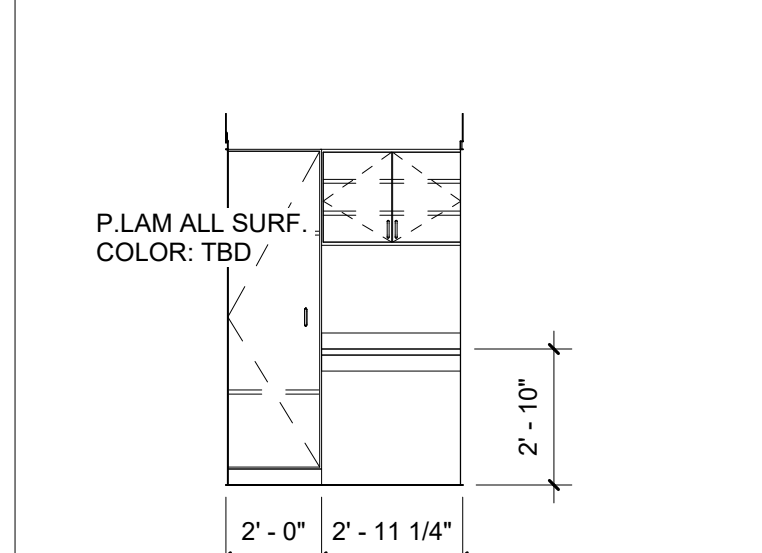
13 MEN SHOWER 131A EAST
SCALE: 1/4" = 1'-0"



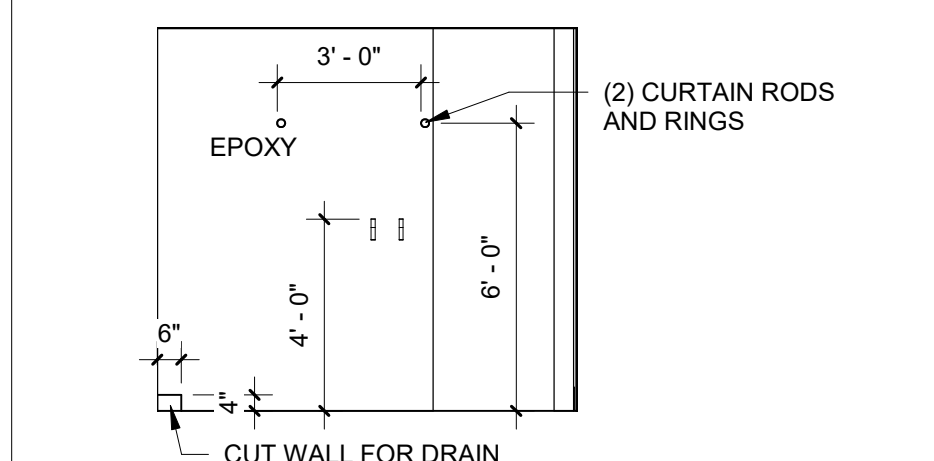
14 TOILET 133 WEST
SCALE: 1/4" = 1'-0"



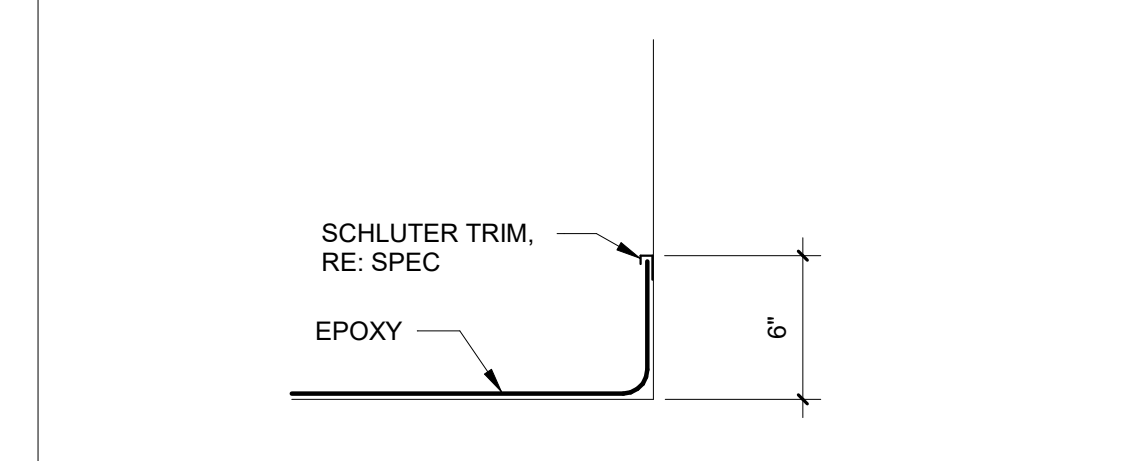
15 BREAKROOM 113
SCALE: 1/4" = 1'-0"



16 HALL 125 NORTH
SCALE: 1/4" = 1'-0"

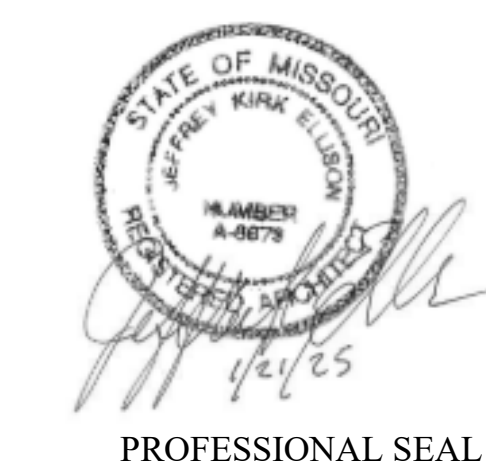


17 MEN SHOWER 131A
SCALE: 1/4" = 1'-0"



18 EPOXY BASE DETAIL
SCALE: 1 1/2" = 1'-0"

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SHEET TITLE:
ENLARGED FLOOR
PLANS & INTERIOR
ELEVATIONS

SHEET NUMBER:

FINISH SCHEDULE								
NUMBER	NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	COMMENTS
100	DRILL HALL	-	B1	P1	P1	P1	P1	BASE & PAINT ON GYP. WALLS
101	STORAGE	-	B1	P1	P1	P1	P1	
101A	STAIR	-	B1	P1	P1	P1	P1	
102	DISH ROOM	-	B1	P1	P1	P1	P1	PAINT STAIR RAIL & STRINGERS
103	KITCHEN	-	B1	P1	P1	P1	P1	
104	STORAGE	-	B1	P1	P1	P1	P1	
105	HALL	-	B1	P1	P1	P1	P1	
106	STORAGE	-	B1	P1	P1	P1	P1	
107	STORAGE	-	B1	P1	P1	P1	P1	
108	MECH.							
109	MEETING ROOM	LVT1	B1	P1	P1	P1	P1	
110	I.T.	LVT1	B1	P1	P1	P1	P1	
111	MECH.	-	-	P1	P1	P1	P1	
112	WOMEN	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	
112A	WOMEN SHOWER	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	
113	BREAK AREA	LVT1	B1	P1	P1	P1	P1	
114	OFFICE	LVT1	B1	P1	P1	P1	P1	
115	OFFICE	LVT1	B1	P1	P1	P1	P1	
116	HALL	LVT1	B1	P1	P1	P1	P1	
117	OFFICE	LVT1	B1	P1	P1	P1	P1	
120	OFFICE	LVT1	B1	P1	P1	P1	P1	
121	OFFICE	LVT1	B1	P1	P1	P1	P1	
122	OFFICE	LVT1	B1	P1	P1	P1	P1	
123	OFFICE	LVT1	B1	P1	P1	P1	P1	
124	OFFICE	LVT1	B1	P1	P1	P1	P1	
125	HALL	LVT1	B1	P1	P1	P1	P1	
126	TOILET	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	
127	OFFICE	LVT1	B1	P1	P1	P1	P1	
128	COMMONS	LVT1	B1	P1	P1	P1	P1	
129	OFFICE	LVT1	B1	P1	P1	P1	P1	
130	HALL	LVT1	B1	P1	P1	P1	P1	
131	MEN	EPOXY	EPOXY	P1	P1	P1	P1	
131A	MEN SHOWER	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	
132	STAIR	LVT1	B1	P1	P1	P1	P1	PAINT STAIR RAIL & STRINGERS
133	MEN	EPOXY	EPOXY	P1	P1	P1	P1	
134	MECH.	-	B1	P1	P1	P1	P1	
135	OFFICE	LVT1	B1	P1	P1	P1	P1	
136	OFFICE	LVT1	B1	P1	P1	P1	P1	
200	LOCKER ROOM	-	-	P1	P1	P1	P1	

FINISH SELECTIONS

FLOOR:

LVT1: J&J COMMERCIAL LVT, COLOR TBD
EPOXY: COLOR, TBD

BASE:

JOHNSONITE 40 BLACK
EPOXY: 6" COLOR, TBD

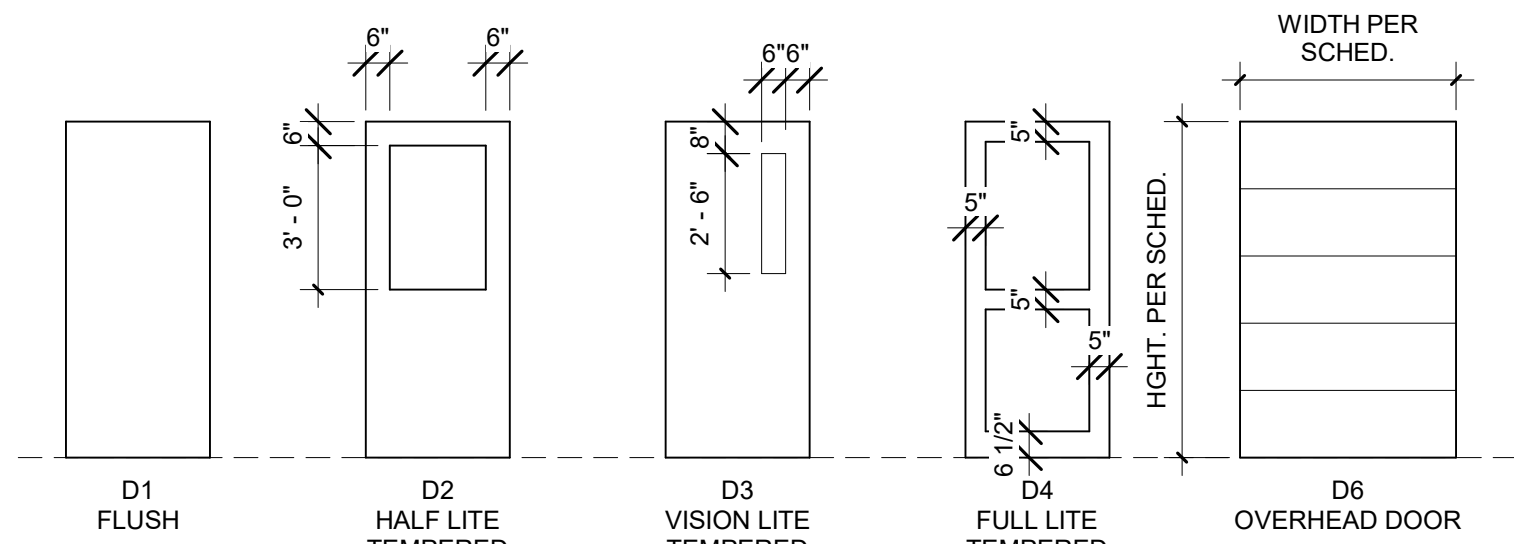
WALLS:

PREP ALL WALLS TO RECIEVE SCHEDULED FINISH
P1: PAINT, COLOR TBD
EPOXY: BASE TO CEILING, COLOR, TBD

PAINT ALL EXPOSED METAL HANDRAILS, COLOR TBD
PROVIDE 1" ALUM. BLINDS ON ALL EXTERIOR WINDOWS. COLOR TBD

DOOR SCHEDULE

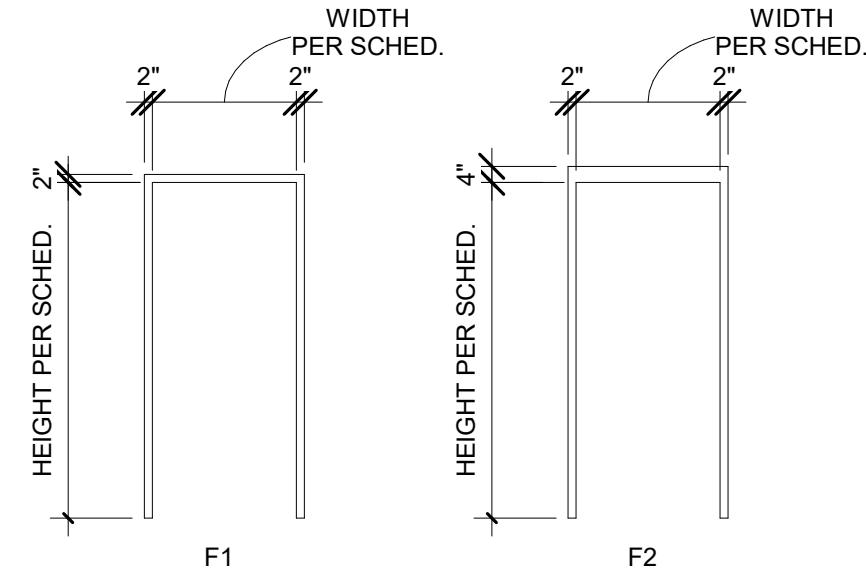
NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FIRE RATING	HARDWARE SET	COMMENTS
100	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
101A	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
101B	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
101C	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
101D	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
101E	6' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3.1	
101F	8' - 0"	8' - 0"	1 1/2"	D6	MTL.	--	STL.			
101G	8' - 0"	8' - 0"	1 1/2"	D6	MTL.	--	STL.			
101H	8' - 0"	8' - 0"	1 1/2"	D6	MTL.	--	STL.			
101J	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
102	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		4	
104	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
105	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
105A	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
106A	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F2	HM.	90 MIN.		
106B	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F2	HM.	90 MIN.		
107	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
108	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
109A	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		2	
109B	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
110	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
111	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
112	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		6	
113A	4' - 0"	7' - 0"	1 3/4"	--	--	F1	HM.			
113B	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F2	HM.	90 MIN.	4	
114	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
115	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
116A	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	
116B	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
117	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
118A	3' - 0"	7' - 0"	1 3/4"	D4	ALUM.	F1	ALUM.		BY MANFU.	
118B	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		7	
120	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
121	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
122	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
123	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
124	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
126	2' - 6"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		5	
127	2' - 6"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		1	
129	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
130	4' - 0"	7' - 0"	1 3/4"	--	--	F1	HM.			
131	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		6	
133	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		5	
134	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		4	
135	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		1	
136	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	PROVIDE HEADER AND JACK STUDS FOR DOOR ATTACHEMEN T
159	3' - 0"	7' - 0"	1 3/4"	D3	HM.	F1	HM.		7	
200	3' - 0"	7' - 0"	1 3/4"	D1	HM.	F1	HM.		3	



1

DOOR TYPE ELEVATIONS

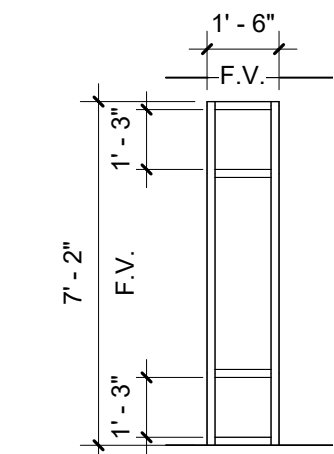
SCALE: 1/4" = 1'-0"



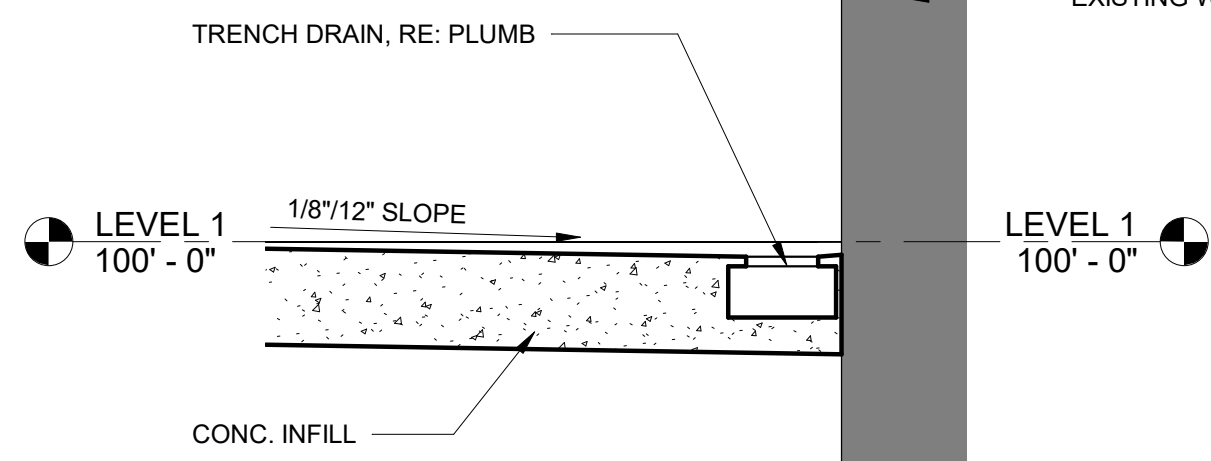
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DOOR FRAME TYPE ELEVATIONS

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



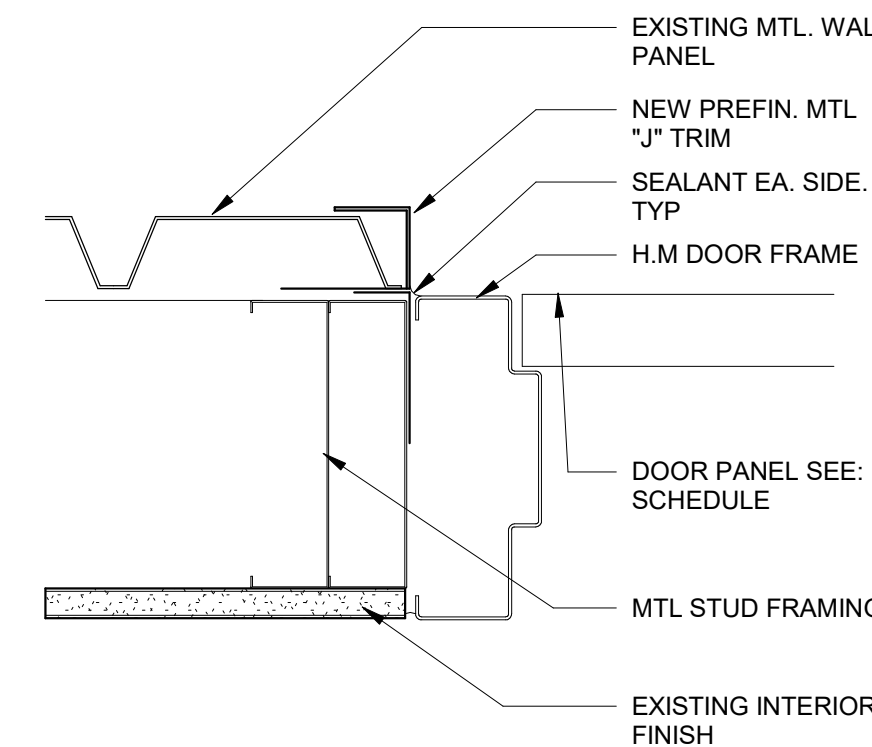
A ALUMN. STOREFRONT SYSTEM (INSUL)



5

DETAIL

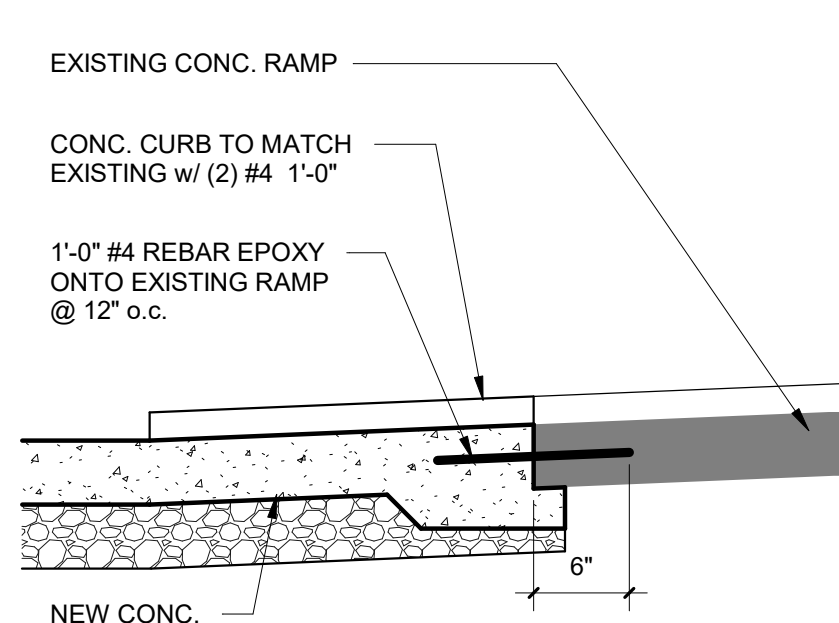
SCALE: 1 1/2" = 1'-0"



6

JAMB DETAIL

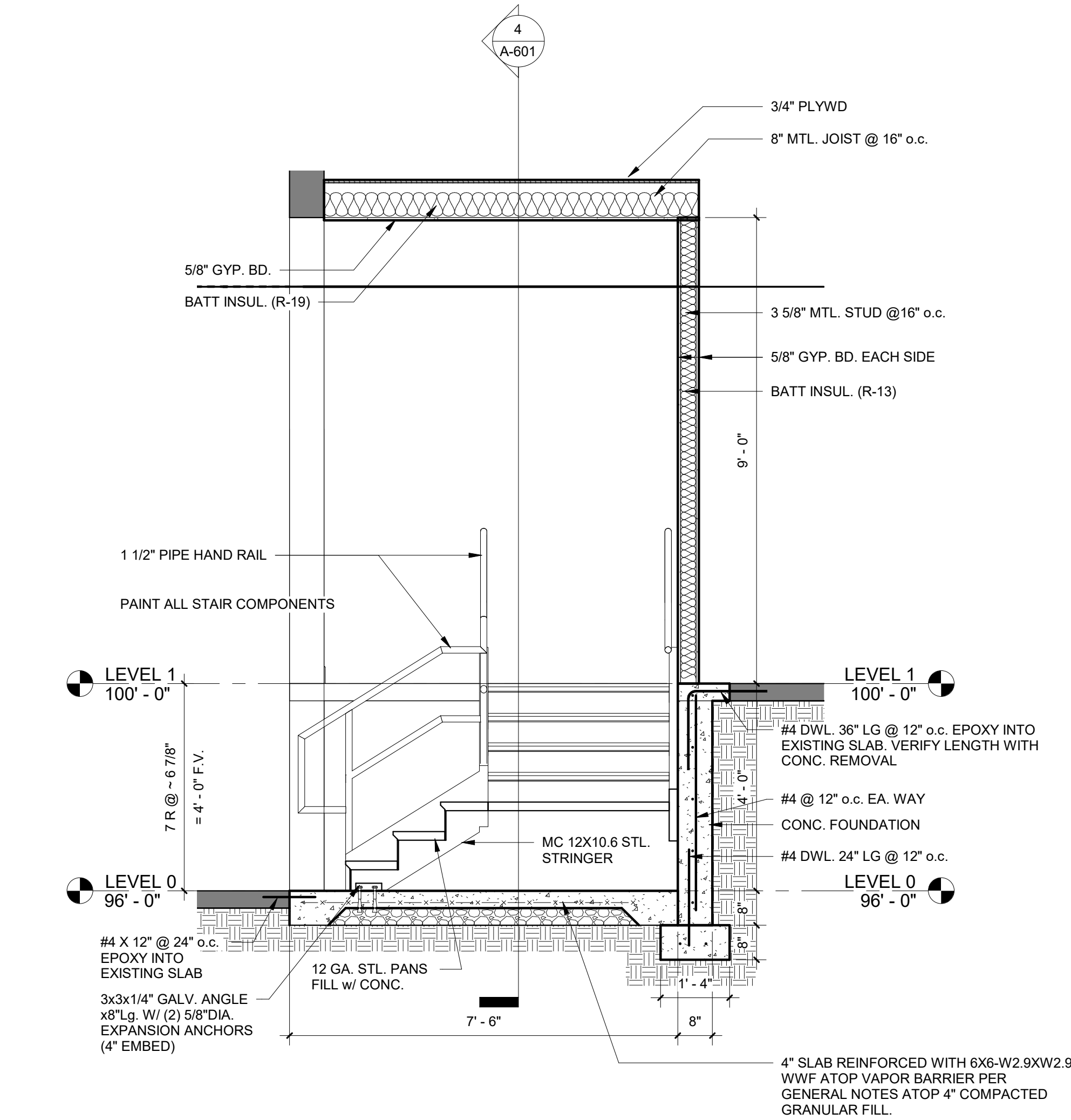
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7

RAMP DETAIL

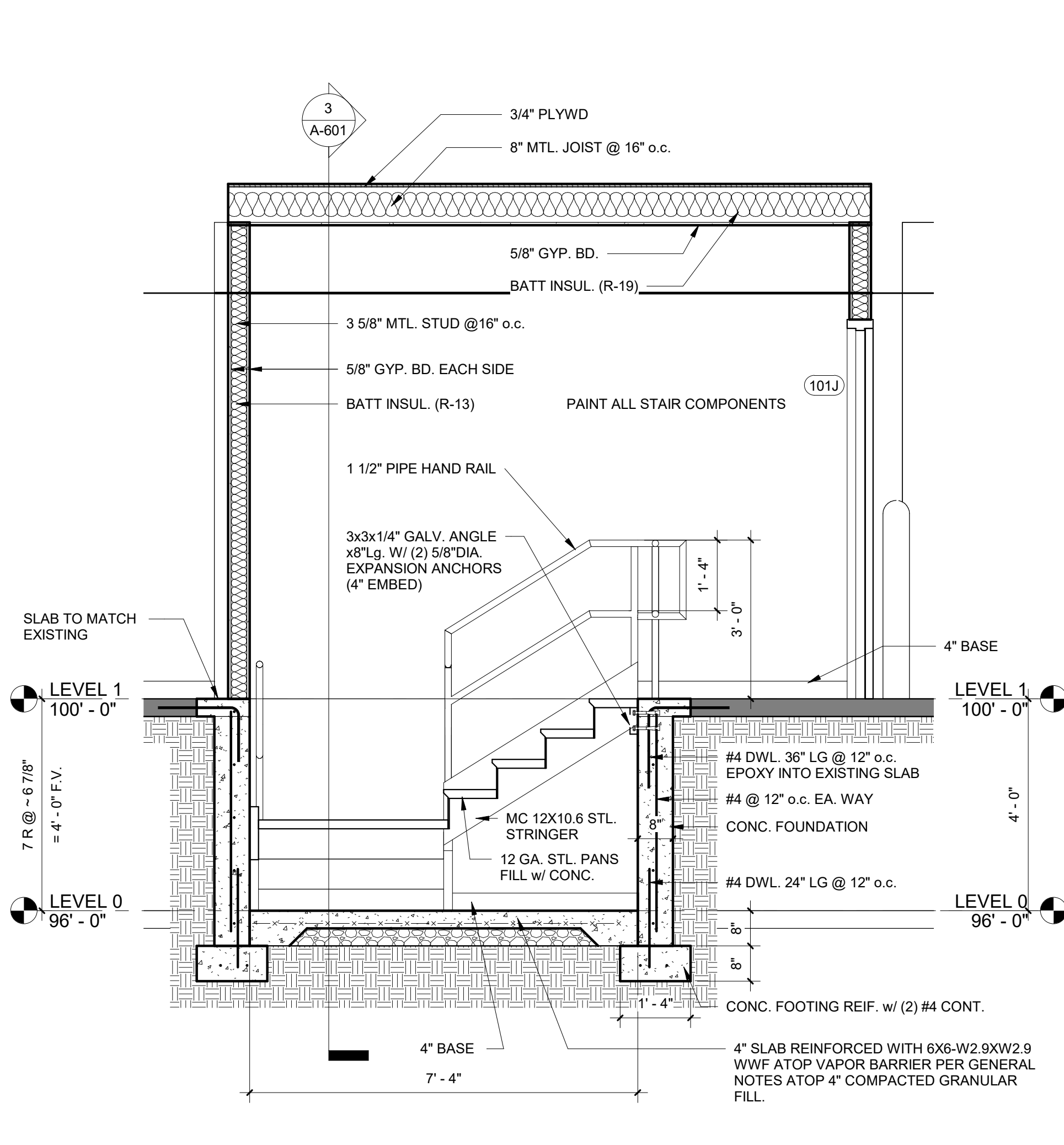
SCALE: 1" = 1'-0"



3

STAIR SECTION

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

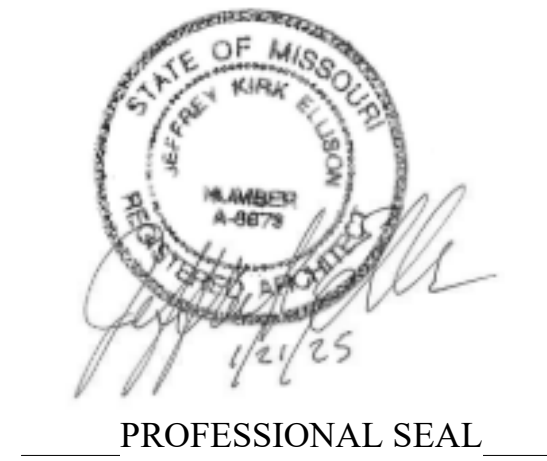


4

STAIR SECTION

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

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



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TRENTON, MO 64683

PROJECT #: T2405-01
SITE #: 6256
ASSET#: 8136256005

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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 01.21.2025

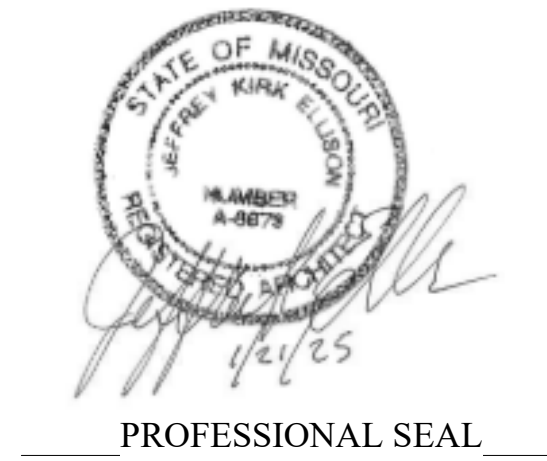
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DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
SCHEDULES

SHEET NUMBER:

A-601

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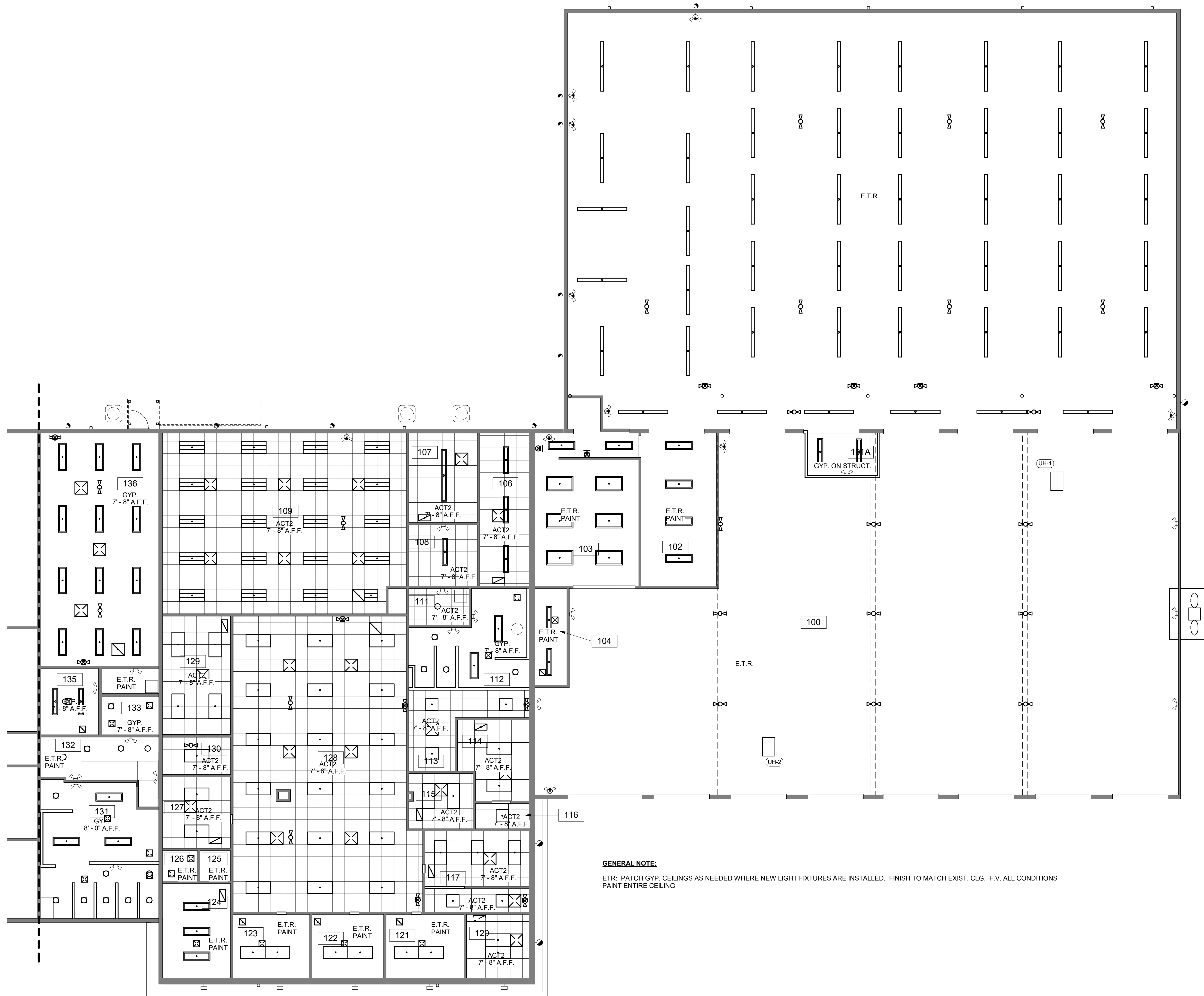
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CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
LEVEL 1 - REFLECTED
CEILING PLAN

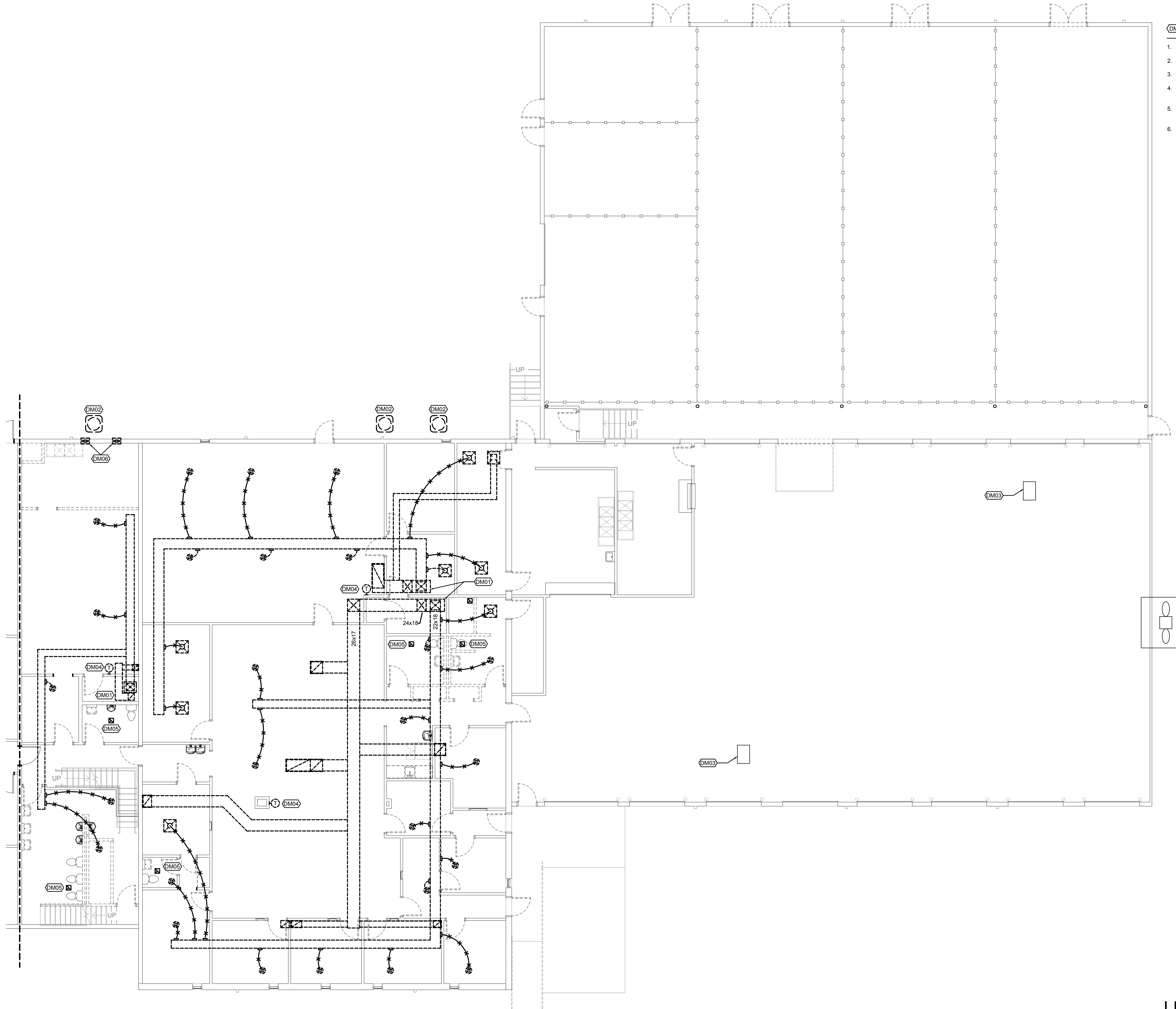
SHEET NUMBER:

A-701

11 of 26



GENERAL NOTE:
ETR: PATCH GYP. CEILINGS AS NEEDED WHERE NEW LIGHT FIXTURES ARE INSTALLED. FINISH TO MATCH EXIST. CLG. F.V. ALL CONDITIONS
PAINT ENTIRE CEILING



LEVEL 1 FLOOR PLAN-MECHANICAL DEMOLITION
SCALE: 1/8"=1'-0"

FLOOR PLAN NOTES

1. REMOVE EXISTING FURNACE UNIT, ASSOCIATED DUCTWORK AND DIFFUSERS.
2. REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING.
3. EXISTING UNIT HEATER TO REMAIN.
4. REMOVE THERMOSTAT. LEAVE WIRING IN PLACE FOR FUTURE THERMOSTAT INSTALLATION.
5. REMOVE RESTROOM EXHAUST FAN AND ASSOCIATED DUCTWORK. CAP ASSOCIATED DUCT AIR TIGHT AT ROOF.
6. REMOVE WALL MOUNTED EXHAUST FAN. PATCH WALL PER ARCHITECTURAL PLANS.

**LEVEL 2 FLOOR
PLAN-MECHANICAL DEMOLITION**
SCALE: 1/8"=1'-0"

STATE OF MISSOURI
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ASSET#: 8136256005

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DATE: _____
ISSUE DATE: 01/21/2025

CAD DWG FILE: _____
DRAWN BY: LFa
CHECKED BY: GJF
DESIGNED BY: AVM/BCD

SHEET TITLE:
LEVEL 1 - FLOOR PLAN
MECHANICAL DEMOLITION

SHEET NUMBER:

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PROJECT #: T2405-01
SITE #: 6256
ASSET#: 8136256005

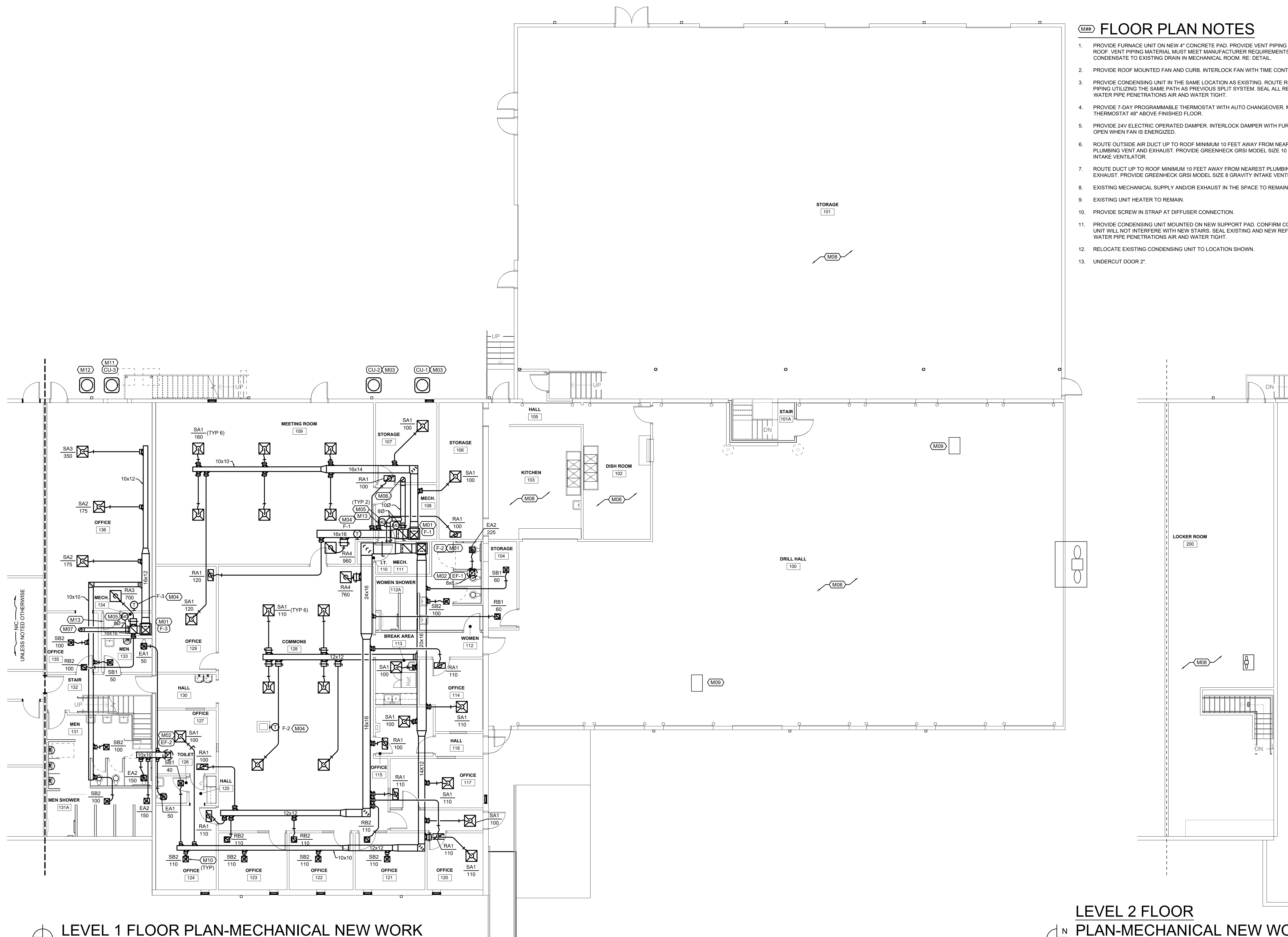
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DRAWN BY: LFa
CHECKED BY: GJF
DESIGNED BY: AVM/BCD

SHEET NUMBER:

M211

13 OF 26

1. PROVIDE FURNACE UNIT ON NEW 4" CONCRETE PAD. PROVIDE VENT PIPING TO THE ROOF. VENT PIPING MATERIAL, MUST MEET MANUFACTURER REQUIREMENTS, ROUTE CONDENSATE TO EXISTING DRAIN IN MECHANICAL ROOM. RE: DETAIL.
2. PROVIDE ROOF MOUNTED FAN AND CURB. INTERLOCK FAN WITH TIME CONTROLLER.
3. PROVIDE CONDENSING UNIT IN THE SAME LOCATION AS EXISTING. ROUTE REFRIGERANT PIPING UTILIZING THE SAME PATH AS PREVIOUS SPLIT SYSTEM. SEAL ALL REFRIGERANT WATER PIPE PENETRATIONS AIR AND WATER TIGHT.
4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGEOVER. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR.
5. PROVIDE 24V ELECTRIC OPERATED DAMPER. INTERLOCK DAMPER WITH FURNACE TO OPEN WHEN FAN IS ENERGIZED.
6. ROUTE OUTSIDE AIR DUCT UP TO ROOF MINIMUM 10 FEET AWAY FROM NEAREST PLUMBING VENT AND EXHAUST. PROVIDE GREENHECK GRSI MODEL SIZE 10 GRAVITY INTAKE VENTILATOR.
7. ROUTE DUCT UP TO ROOF MINIMUM 10 FEET AWAY FROM NEAREST PLUMBING VENT AND EXHAUST. PROVIDE GREENHECK GRSI MODEL SIZE 8 GRAVITY INTAKE VENTILATOR.
8. EXISTING MECHANICAL SUPPLY AND/OR EXHAUST IN THE SPACE TO REMAIN.
9. EXISTING UNIT HEATER TO REMAIN.
10. PROVIDE SCREW IN STRAP AT DIFFUSER CONNECTION.
11. PROVIDE CONDENSING UNIT MOUNTED ON NEW SUPPORT PAD. CONFIRM CONDENSING UNIT WILL NOT INTERFERE WITH NEW STAIRS. SEAL EXISTING AND NEW REFRIGERANT WATER PIPE PENETRATIONS AIR AND WATER TIGHT.
12. RELOCATE EXISTING CONDENSING UNIT TO LOCATION SHOWN.
13. UNDERCUT DOOR 2".



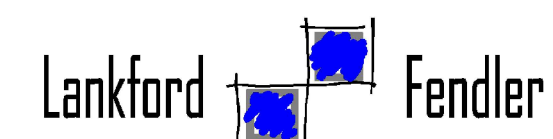
LEVEL 2 FLOOR
PLAN-MECHANICAL NEW WORK
SCALE: 1/8"=1'-0"



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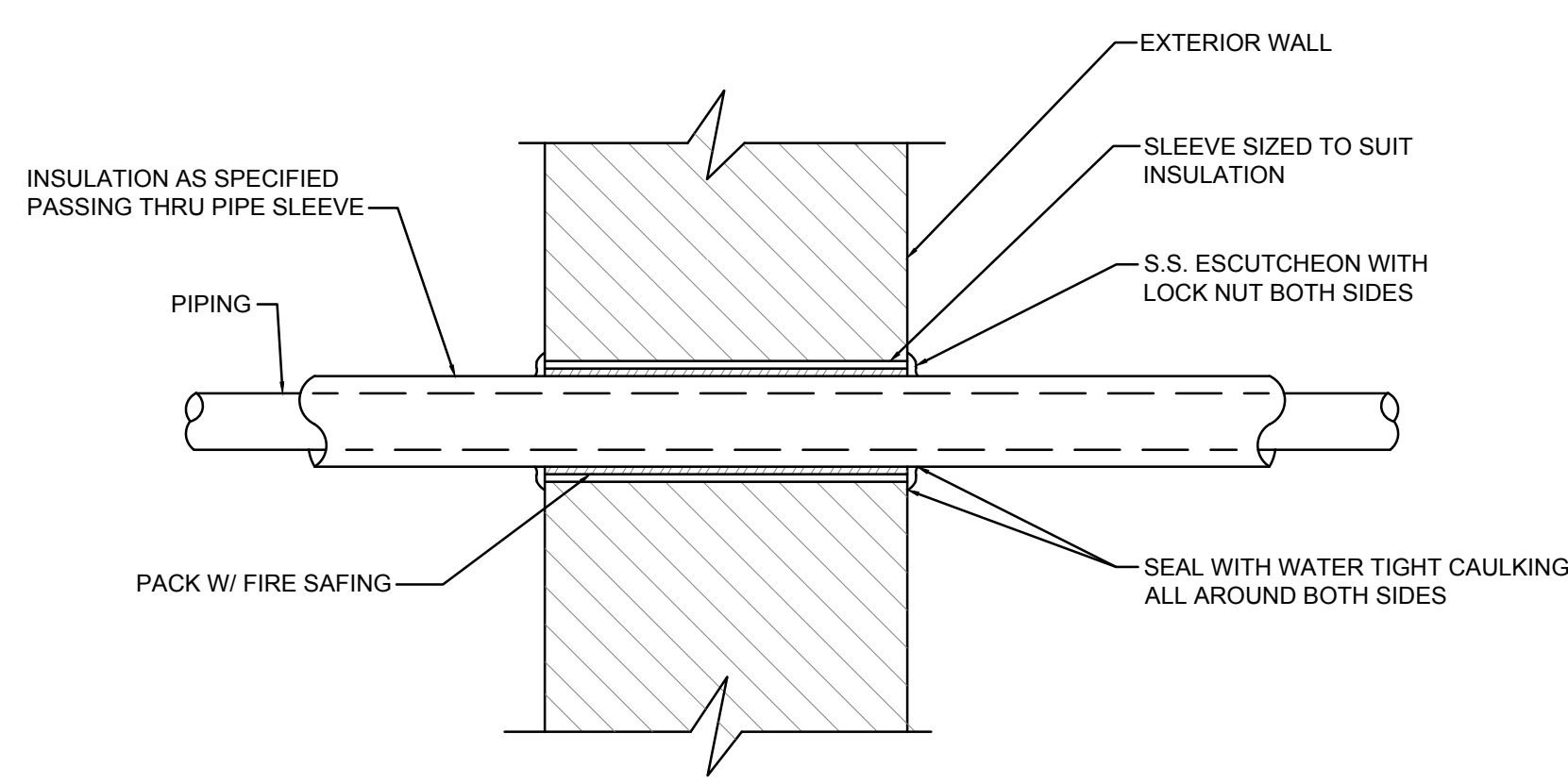
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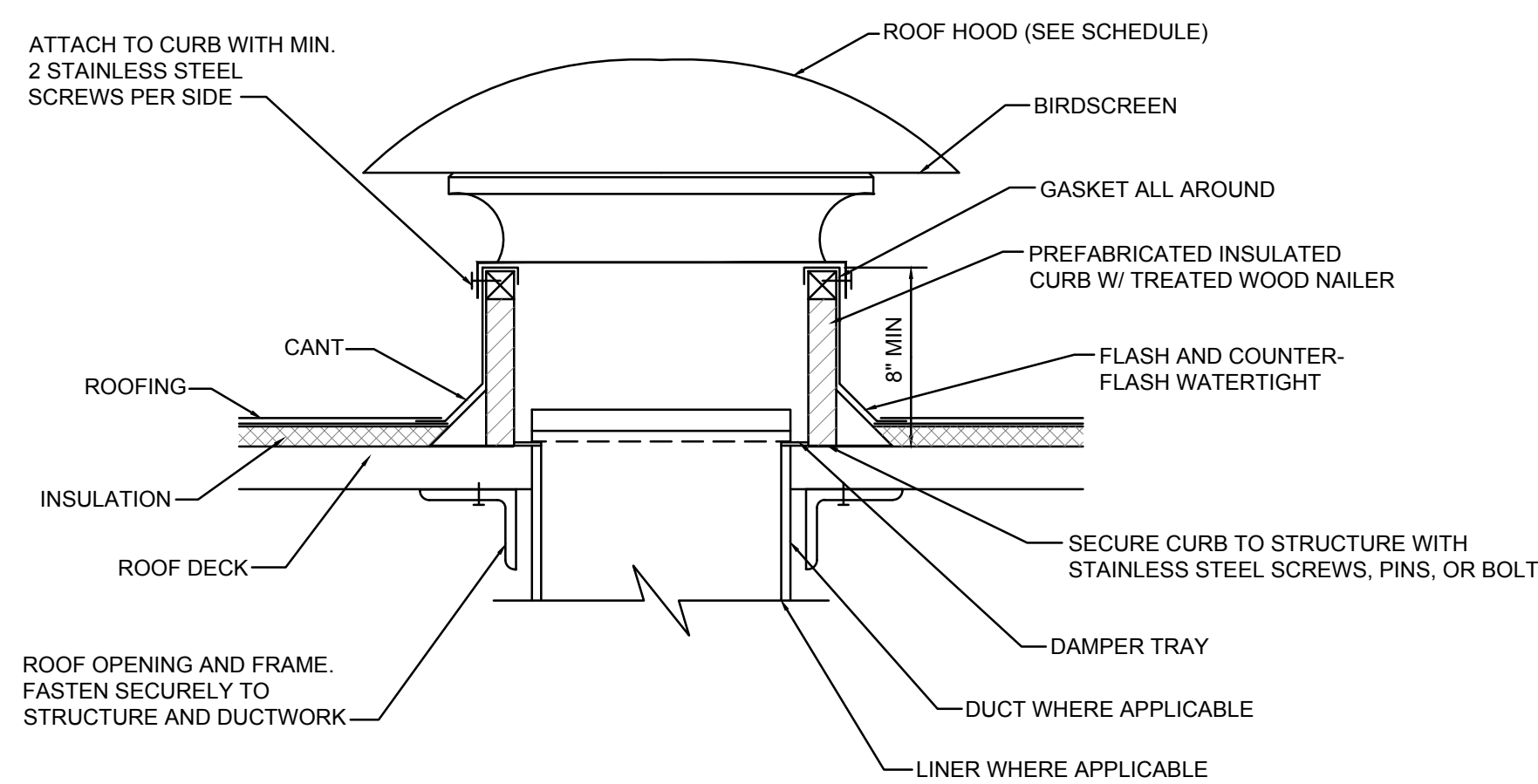
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DESIGNED BY: AVMB/BCD

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MECHANICAL DETAILS

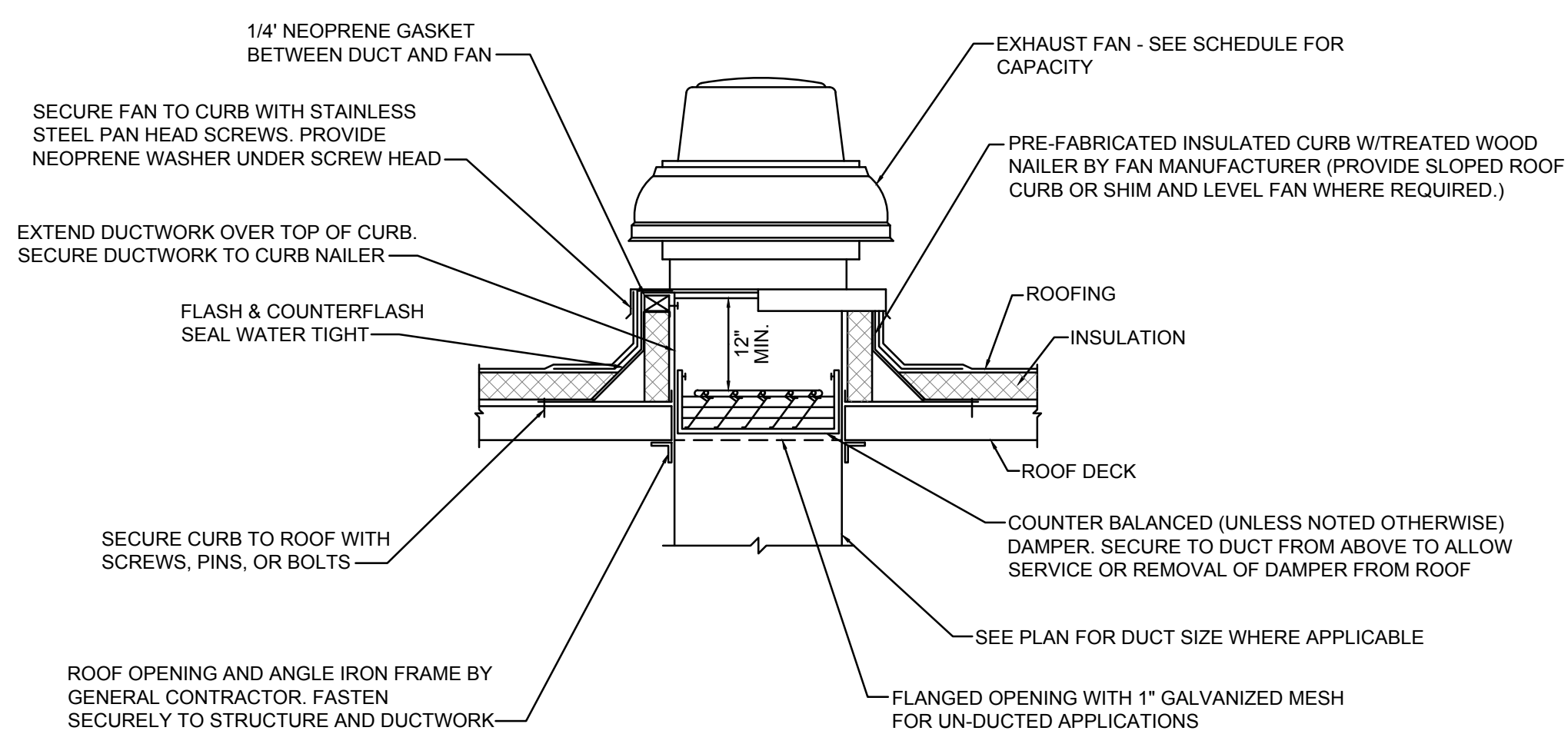
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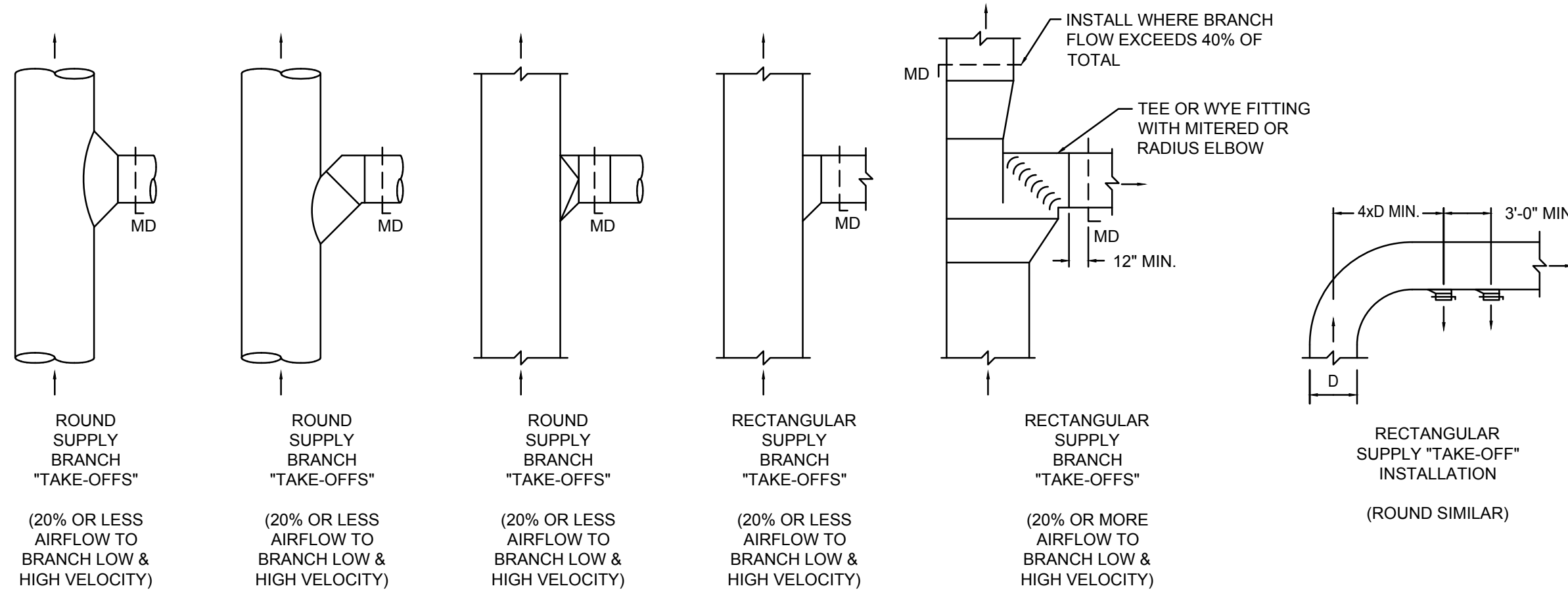
EXTERIOR WALL PIPE PENETRATION DETAIL
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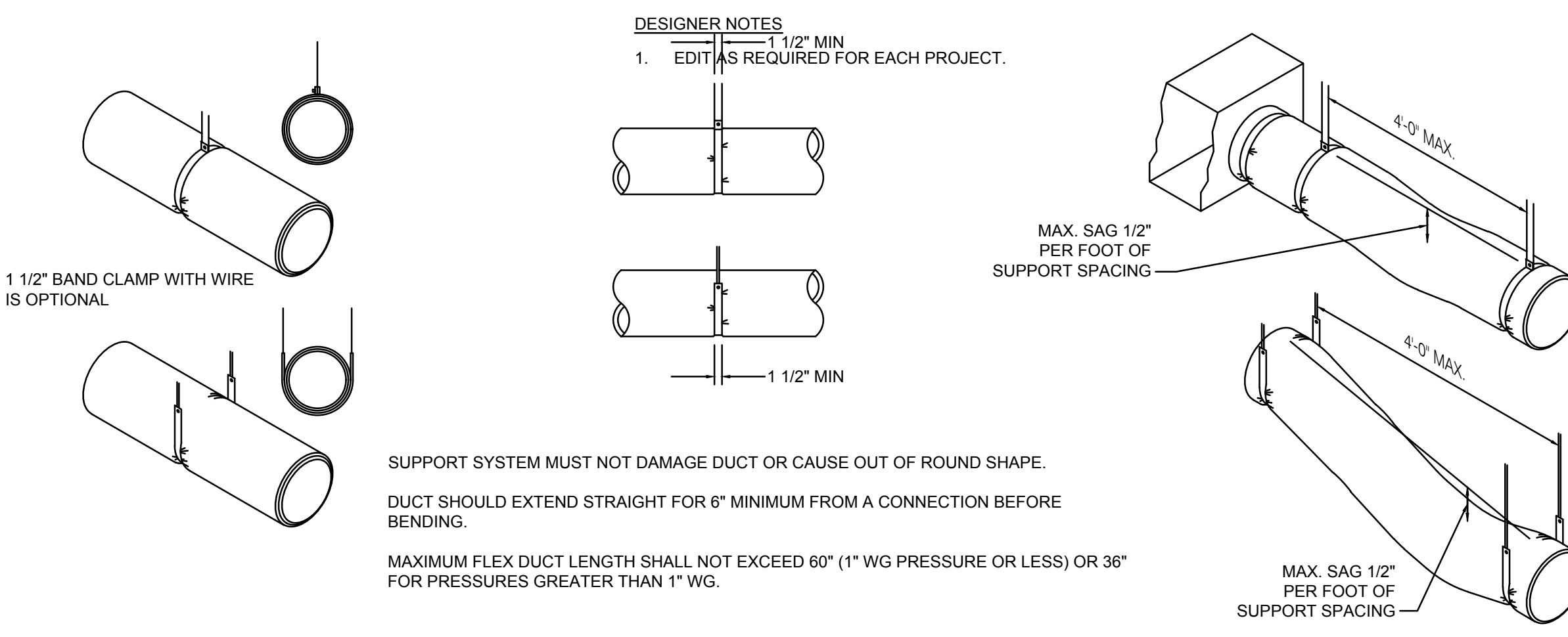
DOMED RELIEF / INTAKE HOOD DETAIL
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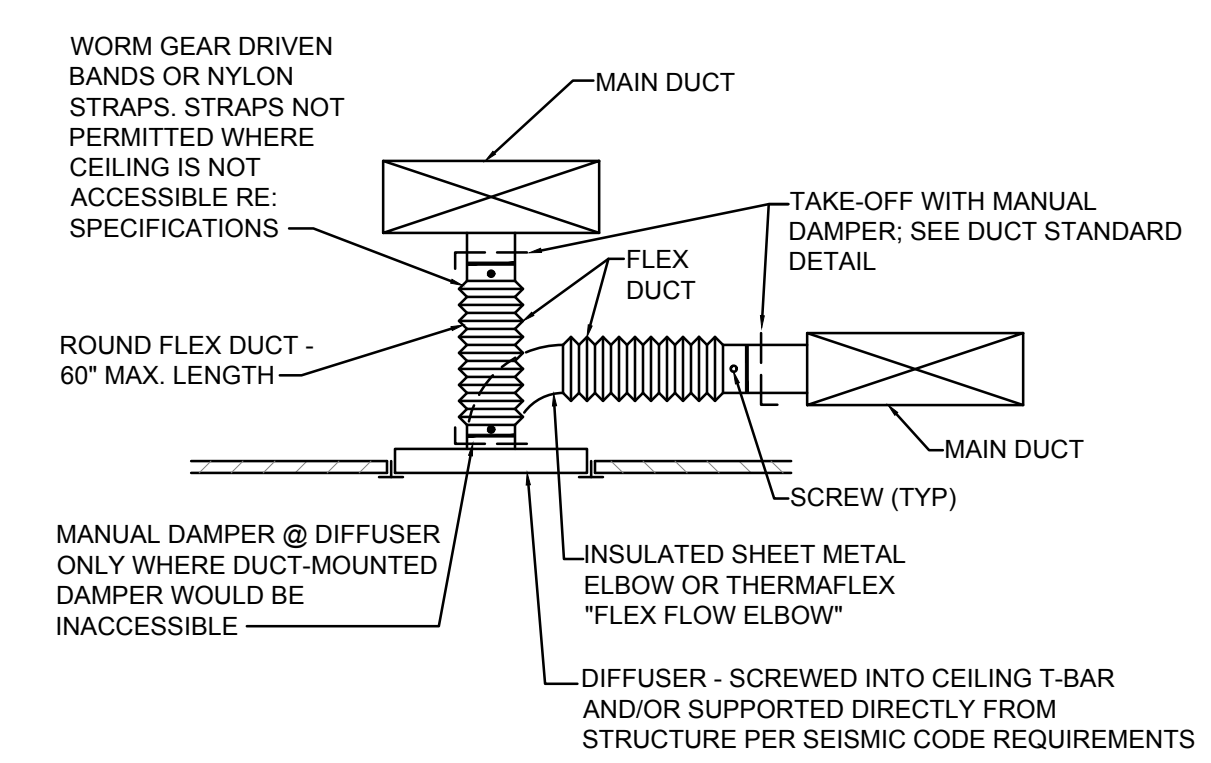
ROOF MOUNTED EXHAUST FAN DETAIL
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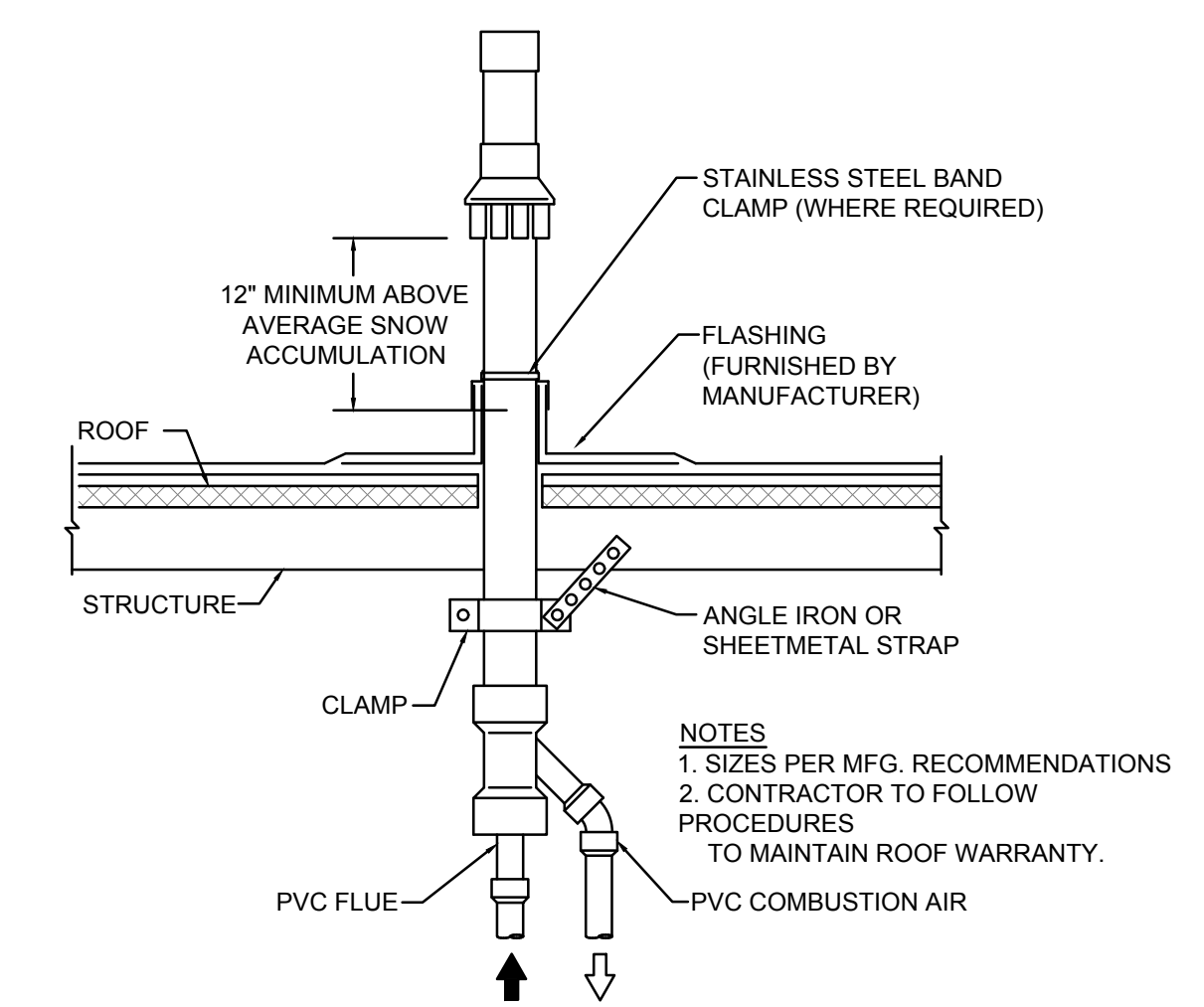
DUCT STANDARDS
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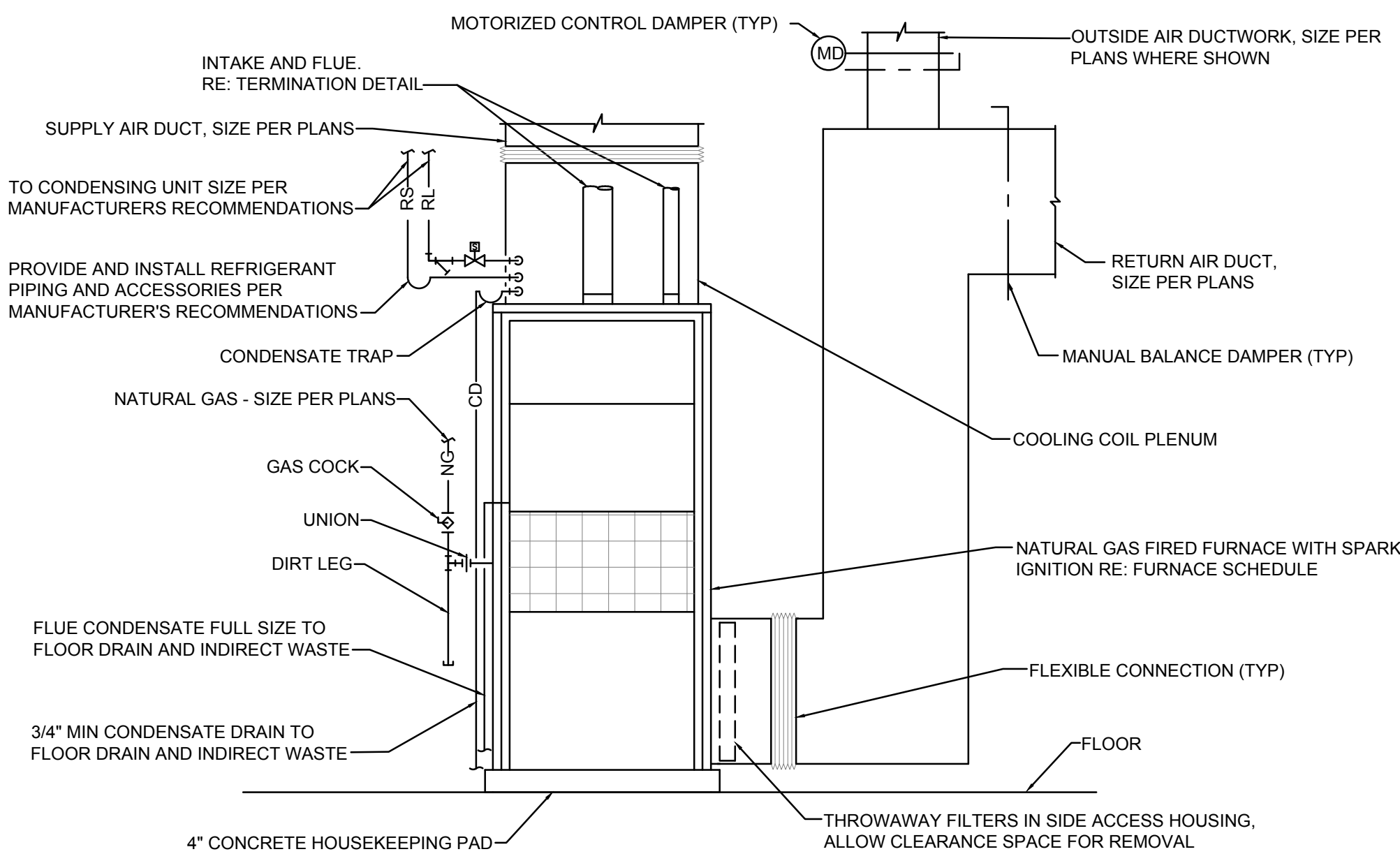
FLEXIBLE DUCT SUPPORT DETAIL
NO SCALE



DIFFUSER DETAIL
NO SCALE



FLUE THRU ROOF DETAIL
NO SCALE HI-EFF., CONCENTRIC, FLAT ROOF



SIDE RETURN HIGH EFFICIENCY GAS FURNACE DETAIL
NO SCALE

DUCTED SPLIT SYSTEM SCHEDULE (GAS HEAT)

FURNACE										EVAPORATOR COIL (PROVIDE WITH ASSOCIATED FURNACE)										OUTDOOR UNIT									
MARK NO.	MANUFACTURER	MODEL	CONFIGURATION	AIRFLOW CFM	MIN O.A. CFM	EXT. S.P. (IN W.G.)	FAN HP	FAN DRIVE TYPE	HEATING-GAS				ELECTRICAL			MODEL	COOLING				MARK NO.	MODEL	COOLING		ELECTRICAL			COOLING EER OR SEER	NOTES
									INPUT MBH	OUTPUT MBH	STAGES	EFFICIENCY (%)	VOLT	ø	HZ		E.D.B. (°F)	E.W.B. (°F)	TOTAL MBH	SENS. MBH			STAGES	AMB. (°F)	VOLT	ø	HZ		
F-1	LENNOX	ML180UH110E48C	VERTICAL	1280	150	0.6	1	ECM	66	54	1	82	120	1	60	CHX35-36A-233	80	67	34.2	26.5	CU-1	ML14XC1-036	1	95	208	1	60	12.2 EER	1.2,3
F-2	LENNOX	ML180UH110E60C	VERTICAL	1950	210	0.6	1	ECM	110	90	2	82	120	1	60	CHX35-51/61-6F	80	67	57	41.5	CU-2	ML14XC1-060	1	95	208	1	60	12 EER	1.2,3
F-3	LENNOX	ML180UH110E48C	VERTICAL	1050	120	0.6	1	ECM	66	54	1	82	120	1	60	CHX35-36A-233	80	67	34.2	26.5	CU-3	ML14XC1-036	1	95	208	1	60	12.2 EER	1.2,3

NOTES: 1. PROVIDE WITH THERMOSTAT AS NOTED ON PLANS. CONDENSATE OVERFLOW SWITCH TO SHUT DOWN UNIT IF DRAIN BECOMES CLOGGED.
2. PROVIDE WITH MINIMUM 1" MERV 8 FILTERS.
3. PROVIDE OUTDOOR UNIT WITH COMPRESSOR TIME-OFF CONTROL, HAIL GUARDS AND COTTON FILTERS (REMOVABLE).

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN W.G.)	RPM	DRIVE	ELECTRICAL			HP	NOTES
								VOLT	ø	HZ		
EF-1	GREENHECK	G-070-VG	DOWNBLAST	225	0.25	1420	DIRECT	120	1	60	1/15	1.2
EF-2	GREENHECK	G-095-VG	DOWNBLAST	400	0.25	1059	DIRECT	120	1	60	1/6	1.2

NOTES: 1. PROVIDE WITH ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, BACKDRAFT DAMPER, AND BIRD SCREEN.
2. PROVIDE TIME CLOCK. COORDINATE SETTING WITH OWNER.

DIFFUSER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN.)	NECK SIZE (IN.)	FRAME TYPE*	NOTES
SA1	PRICE	SPD	SQUARE PLAQUE	CEILING	24x24	8"	LAY-IN	2,3,4
SA2	PRICE	SPD	SQUARE PLAQUE	CEILING	24x24	8"	LAY-IN	2,3,4,5
SA3	PRICE	SPD	SQUARE PLAQUE	CEILING	24x24	10"	LAY-IN	2,3,4,5
SB1	PRICE	SPD	SQUARE PLAQUE	CEILING	12x12	6"	LAY-IN	2,3,4,5
SB2	PRICE	SPD	SQUARE PLAQUE	CEILING	12x12	8"	LAY-IN	2,3,4,5
RA1	PRICE	PDDR	PERFORATED	CEILING	24x12	8"	LAY-IN	1,2,4
RA2	PRICE	PDDR	PERFORATED	CEILING	24x24	12"	LAY-IN	1,2,4
RA3	PRICE	PDDR	PERFORATED	CEILING	24x24	14"	LAY-IN	1,2,4,6
RA4	PRICE	PDDR	PERFORATED	CEILING	24x24	16"	LAY-IN	1,2,4
RB1	PRICE	PDDR	PERFORATED	CEILING	12x12	6"	LAY-IN	1,2,4
RB2	PRICE	PDDR	PERFORATED	CEILING	12x12	8"	LAY-IN	1,2,4
EA1	PRICE	PDDR	PERFORATED	CEILING	12x12	6"	LAY-IN	1,2,4,5
EA2	PRICE	PDDR	PERFORATED	CEILING	12x12	8"	LAY-IN	1,2,4,5

NOTES: 1. PROVIDE WITH SQUARE TO ROUND ADAPTER.
2. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS.
4. FRAME TYPE TO MATCH CEILING CONSTRUCTION - COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
5. PROVIDE WITH RAPID MOUNT FRAME AND OPPOSED BLADE DAMPER.
6. PROVIDE WITH RAPID MOUNT FRAME.

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

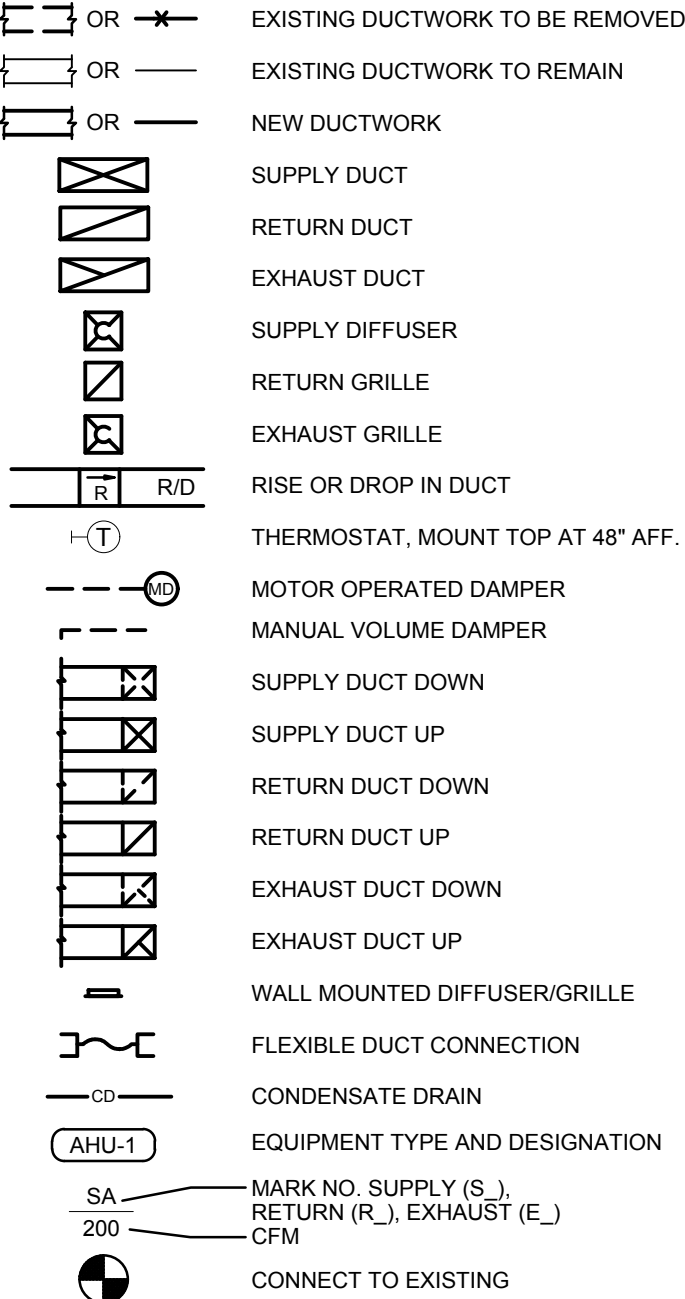
GENERAL NOTES (TYPICAL ALL SHEETS)

- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.
- G. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- H. REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW. THERMOSTAT COVERS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED. THERMOSTATS/SENSORS SHALL BE INSTALLED AND CALIBRATED PRIOR TO TEST AND BALANCE. INTEGRATE NEW DIGITAL THERMOSTATS/SENSORS INTO THE EXISTING BUILDING ENERGY MANAGEMENT SYSTEM AS REQUIRED.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

MECHANICAL SYMBOLS



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI

ALAN W. LANKFORD

NUMBER E-14254

PROFESSIONAL ENGINEER

01.21.2025

PROFESSIONAL SEAL

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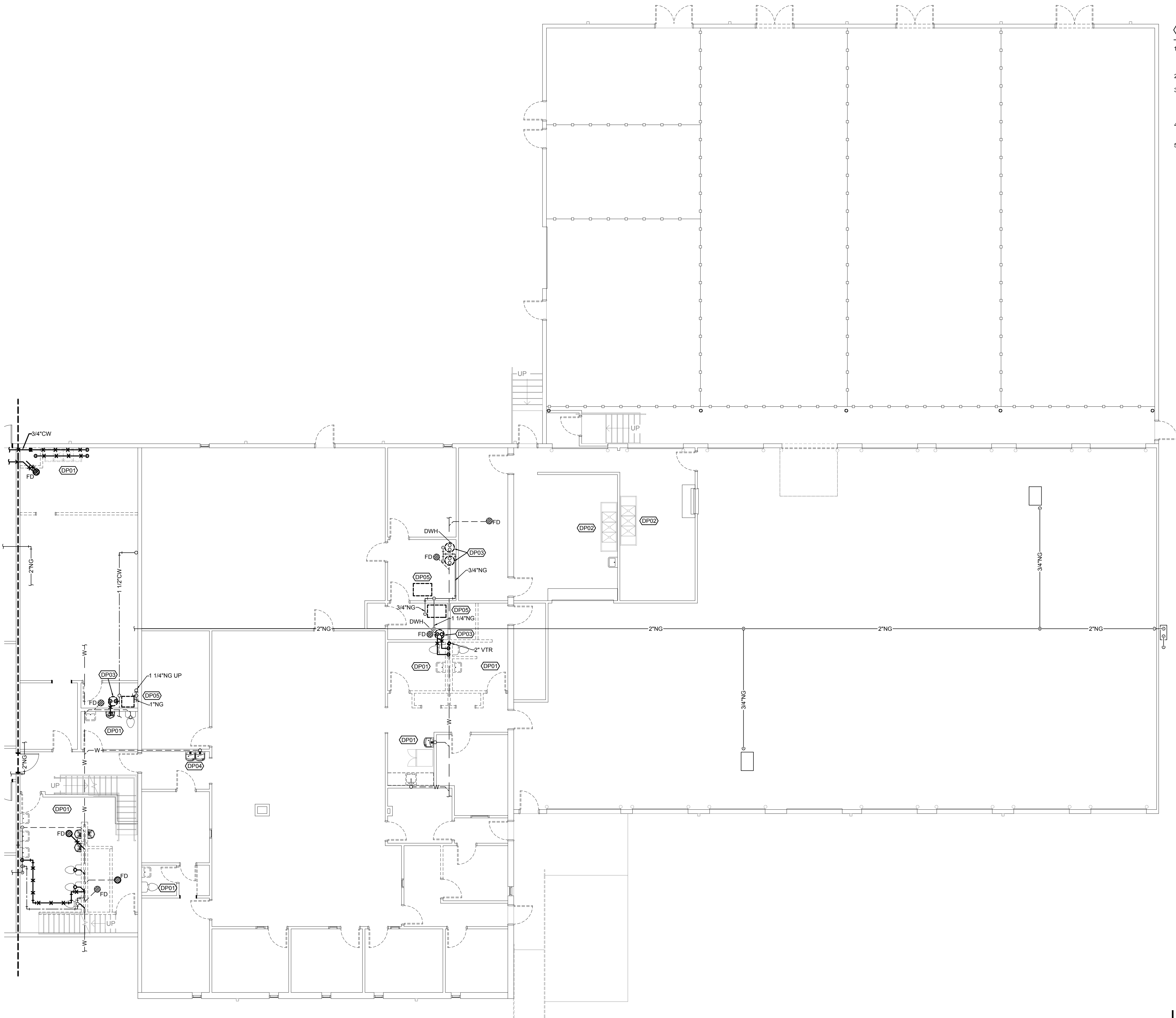
PROJECT #: T2405-01
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DRAWN BY: LFa
CHECKED BY: GJF
DESIGNED BY: AVM/BCD

SHEET TITLE:
MECHANICAL SCHEDULES,
NOTES, & SYMBOLS

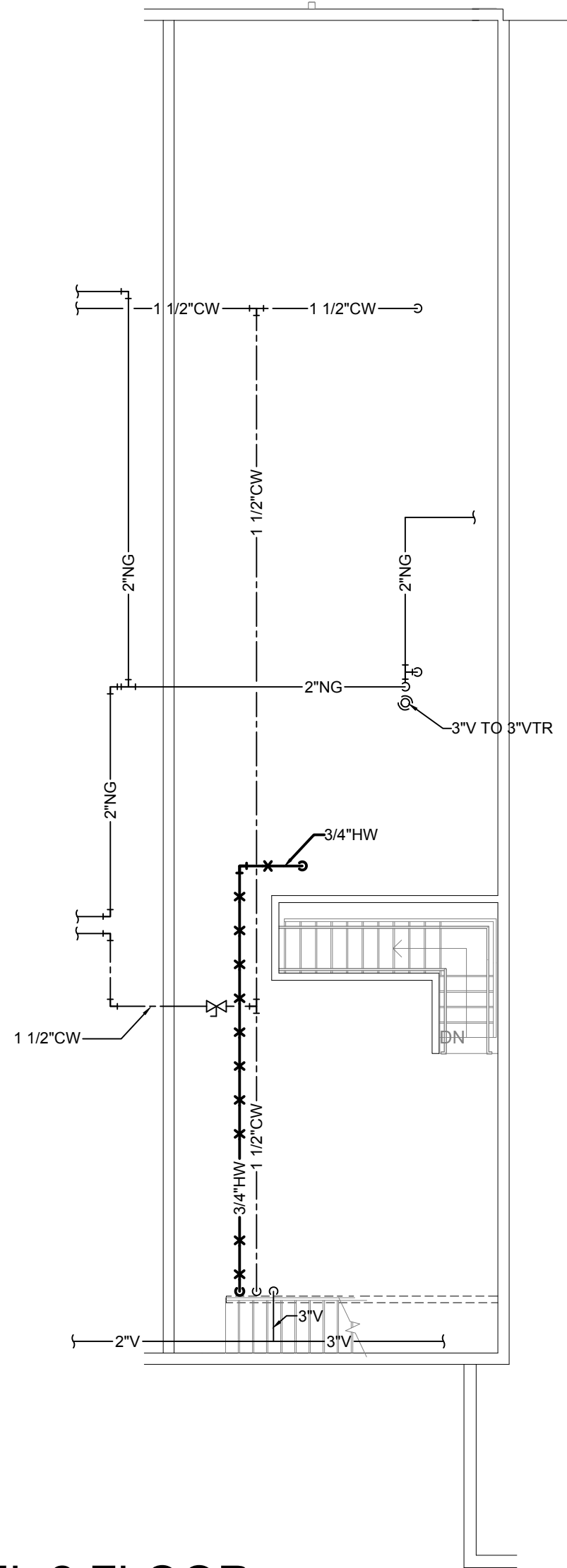
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LEVEL 1 FLOOR PLAN-PLUMBING DEMOLITION
SCALE: 1/8"=1'-0"

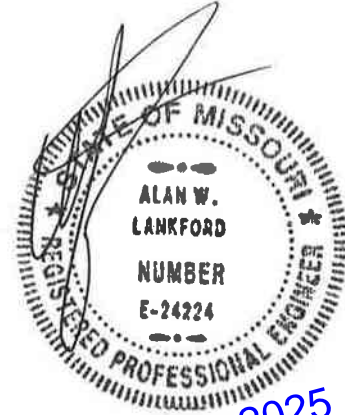
FLOOR PLAN NOTES

1. REMOVE ALL EXISTING PLUMBING FIXTURES. REMOVE ALL PIPING NOT TO BE USED FOR NEW PLUMBING FIXTURES. CAP AND SEAL ALL PIPE OPENING WATER TIGHT.
2. EXISTING KITCHEN PLUMBING FIXTURES TO REMAIN.
3. REMOVE EXISTING WATER HEATER, EXPANSION TANK AND RELATED ACCESSORIES, CONTROLS. DISCONNECT AND REMOVE ANY PIPING THAT IS NOT NEEDED FOR NEW WATER HEATER REPLACEMENT INSTALLATION.
4. REMOVE EXISTING DRINKING FOUNTAIN. REFER TO NEW WORK PLANS FOR NEW DRINKING FOUNTAIN INSTALLATION.
5. DISCONNECT AND REMOVE ANY GAS PIPING THAT IS NOT NEEDED FOR NEW FURNACE REPLACEMENT INSTALLATION.



**LEVEL 2 FLOOR
PLAN-PLUMBING DEMOLITION**
SCALE: 1/8"=1'-0"

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GOVERNOR

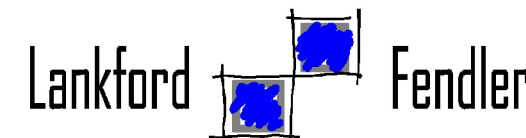


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MISSOURI NATIONAL GUARD

TRENTON READINESS
CENTER - RENOVATE
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922 INDUSTRIAL DRIVE
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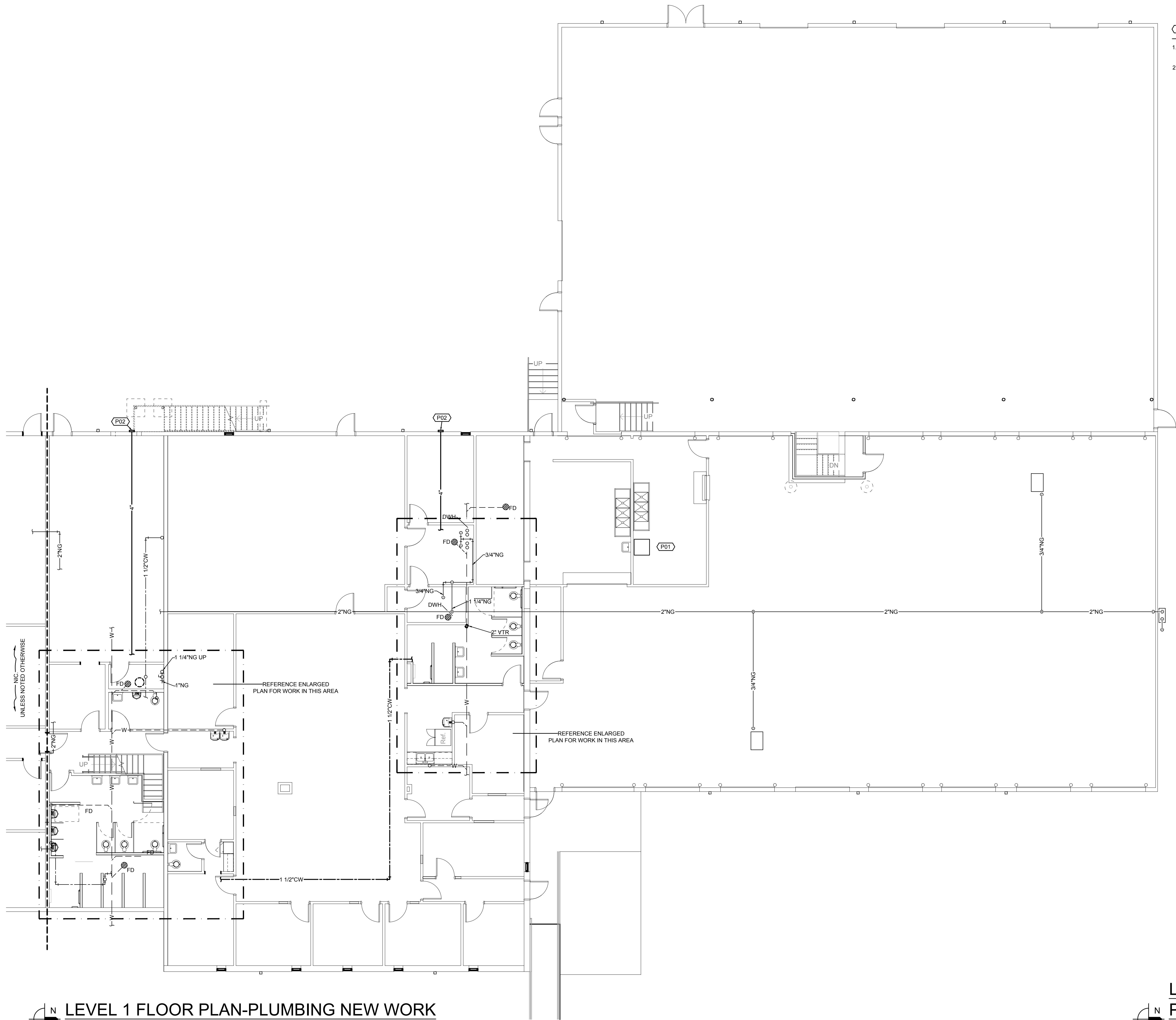
PROJECT #: T2405-01
SITE #: 6256
ASSET#: 8136256005

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DATE: _____
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ISSUE DATE: 01/21/2025

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DRAWN BY: LFa
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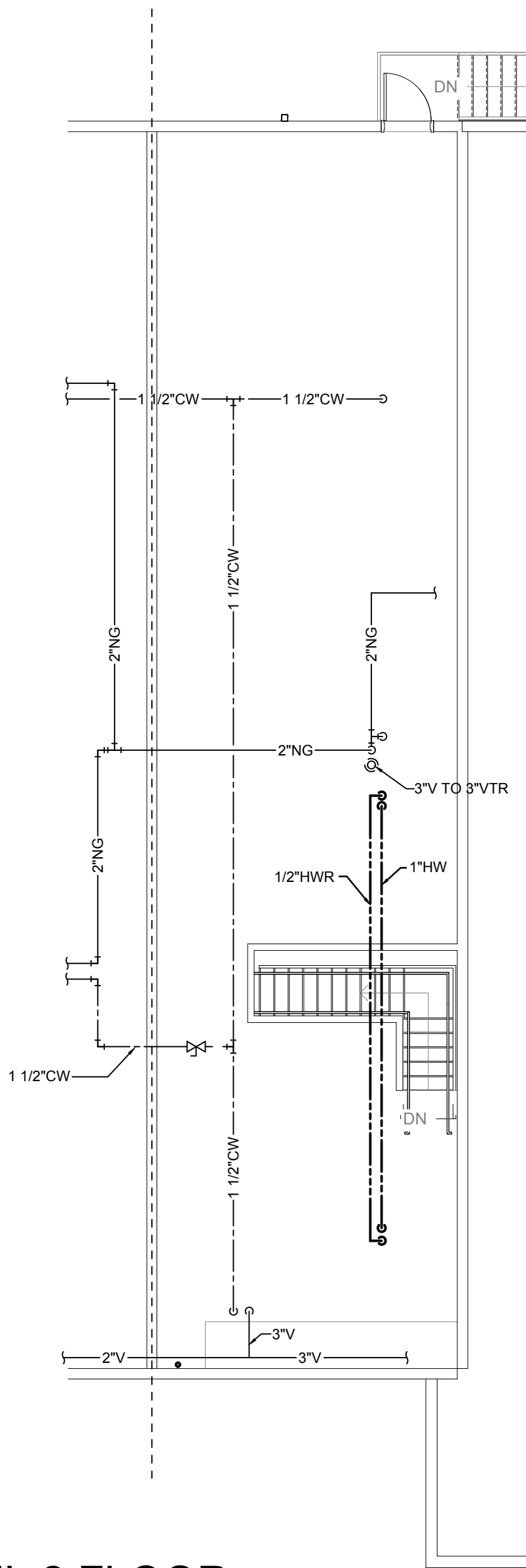
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LEVEL 1 - FLOOR PLAN
PLUMBING DEMOLITION

SHEET NUMBER:



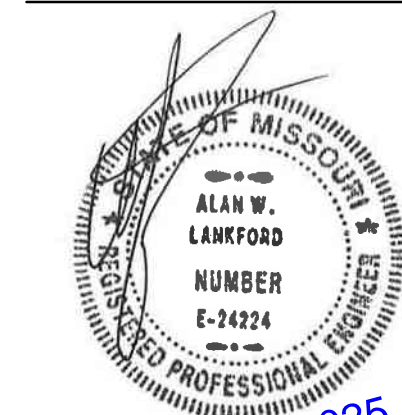
FLOOR PLAN NOTES

1. NEW DISHWASHER HEATER PROVIDED BY OWNER. CONNECT HEATER TO EXISTING 1" COLD AND HOT WATER LINE.
2. PROVIDE VENT THROUGH WALL PER MANUFACTURER'S RECOMMENDATIONS. MOUNT AS HIGH AS POSSIBLE.



**LEVEL 2 FLOOR
PLAN-PLUMBING NEW WORK**
SCALE: 1/8"=1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

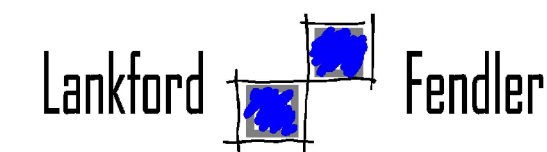


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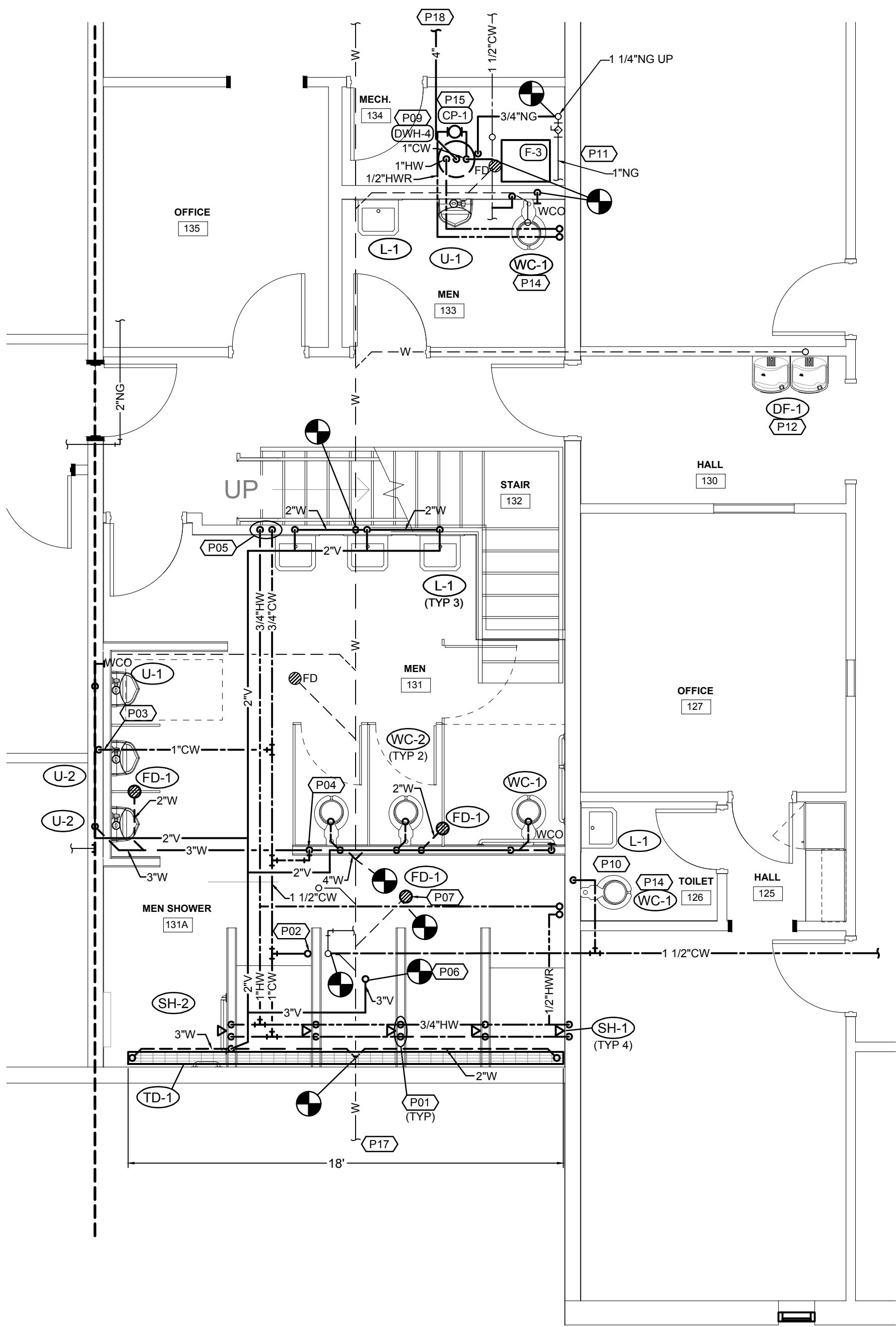
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LEVEL 1 - FLOOR PLAN
PLUMBING NEW WORK

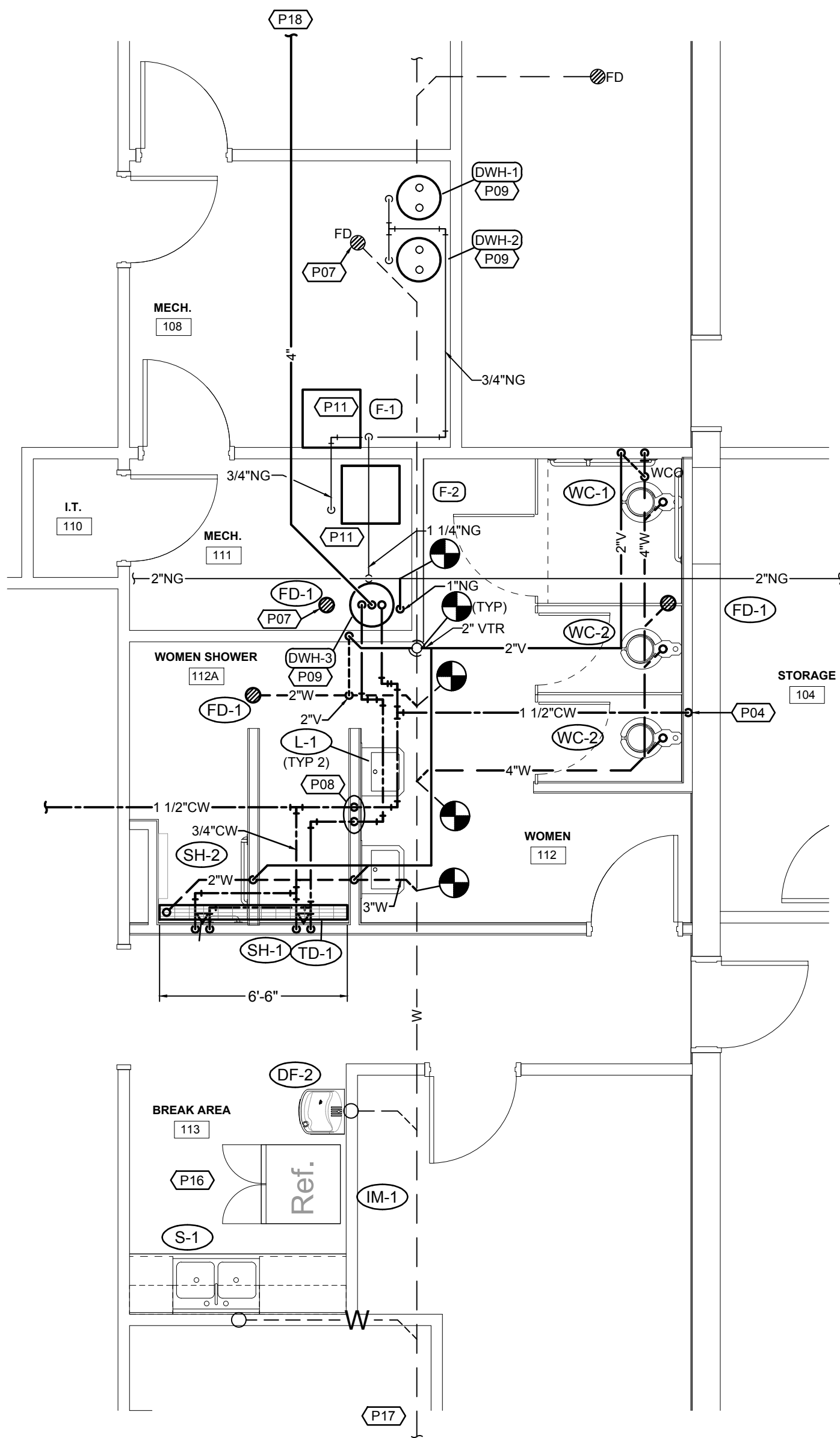
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P211

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ENLARGED LEVEL 1
FLOOR PLAN-PLUMBING NEW WORK
SCALE: 1/4"=1'-0"



ENLARGED LEVEL 1
FLOOR PLAN-PLUMBING NEW WORK
SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES

- 1/2" COLD WATER AND 1/2" HOT WATER DOWN IN WALL TO SHOWER VALVE.
- 1 1/2" COLD WATER UP TO MEZZANINE. CONNECT TO EXISTING 1 1/2" COLD WATER SUPPLY PIPING ON MEZZANINE. PROVIDE MAIN SHUT OFF VALVE FOR LOCKER ROOM COLD WATER SUPPLY AT AN ACCESSIBLE HEIGHT ON MEZZANINE.
- 1" COLD WATER DOWN IN WALL. 3/4" COLD WATER TO EACH URINAL.
- 1 1/2" COLD WATER DOWN IN WALL. 1" COLD WATER TO EACH WATER CLOSET.
- 3/4" COLD WATER AND 3/4" HOT WATER DOWN IN WALL. 1/2" COLD WATER AND 1/2" HOT WATER TO EACH LAVATORY.
- 2" VENT UP TO EXISTING VENT PIPING ON MEZZANINE.
- REPLACE EXISTING FLOOR DRAIN WITH NEW.
- 3/4" COLD WATER AND 3/4" HOT WATER DOWN IN WALL. 1/2" COLD WATER AND 1/2" HOT WATER TO EACH LAVATORY.
- PROVIDE NEW WATER HEATER AND RECONNECT TO EXISTING PIPING AND VENT. RE: DETAIL.
- PROVIDE NEW PLUMBING FIXTURES IN THE RESTROOM.
- RECONNECT EXISTING GAS PIPING TO NEW MECHANICAL FURNACE.
- PROVIDE NEW DRINKING FOUNTAIN AND RECONNECT TO EXISTING PIPING.
- PROVIDE NEW WATER HEATER. RE: DETAIL.
- PROVIDE NEW WATER CONNECTION TO WATER CLOSET.
- PROVIDE NEW CIRCULATION PUMP. RE: DETAIL.
- PROVIDE NEW PLUMBING FIXTURES. MODIFY EXISTING PIPING AS NEEDED.
- SCOPE EXISTING WASTE PIPING AND COORDINATE CONDITION OF PIPE WITH OWNER.
- PROVIDE WATER HEATER GAS FLUE. MAINTAIN MANUFACTURER LENGTH REQUIREMENTS.

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ENLARGED LEVEL 1 -
FLOOR PLANS
PLUMBING NEW WORK

SHEET NUMBER:



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CIRCULATING PUMP DETAIL

WALL CLEANOUT DETAIL

NO SCALE

GAS WATER HEATER DETAIL

NO SCALE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
AA	1/2"	1-3
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1 1/4"	61-113
E	1 1/2"	114-154
F	2"	155-330

DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF. PRECISION PLUMBING PRODUCTS. WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010, AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS PER THE TABLES SHOWN ABOVE, BUT NOT LESS THAN WATER CONNECTION SIZE.

WATER HAMMER ARRESTER DETAIL

GAS EQUIPMENT CONNECTION DETAIL NO SCALE

VENT THRU ROOF DETAIL

NO SCALE

WASTE AND VENT RISER DIAGRAM

WASTE AND VENT RISER DIAGRAM

PLUMBING FIXTURE SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	MINIMUM CONNECTION SIZE			
					CW	HW	WASTE	VENT
WC-1	WATER CLOSET (ACCESSIBLE)	AMERICAN-STANDARD	3043.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGATED BOWL, WITH 1-1/2" TOP SPUD, 15" RIM HEIGHT. SLOAN "ROYAL" 111-1.28 (1.28 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, BOLTS AND CAPS. NOTE: MOUNT FLUSH VALVE TO WIDE SIDE OF FIXTURE.	1"	-	4"	2"
WC-2	WATER CLOSET	AMERICAN-STANDARD	2234.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGATED BOWL, WITH 1-1/2" TOP SPUD, 15" RIM HEIGHT. SLOAN "ROYAL" 111-1.28 (1.28 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, BOLTS AND CAPS.	1"	-	4"	2"
U-1	URINAL (ACCESSIBLE)	AMERICAN-STANDARD	6590.001 "WASHBROOK"	WHITE VITREOUS CHINA, WALL-HUNG, HIGH EFFICIENCY WASHOUT FLUSH ACTION, INTEGRAL FLUSHING RIM, 3/4" TOP SPUD, 2" OUTLET. SLOAN "ROYAL" 186-0.5 (0.5 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: J. R. SMITH URINAL SUPPORT. NOTE: MOUNT FIXTURE RIM 17" ABOVE FINISHED FLOOR.	3/4"	-	2"	1-1/2"
U-2	URINAL	AMERICAN-STANDARD	6590.001 "WASHBROOK"	WHITE VITREOUS CHINA, WALL-HUNG, HIGH EFFICIENCY WASHOUT FLUSH ACTION, INTEGRAL FLUSHING RIM, 3/4" TOP SPUD, 2" OUTLET. SLOAN "ROYAL" 186-0.5 (0.5 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: J. R. SMITH URINAL SUPPORT. NOTE: MOUNT FIXTURE RIM 24" ABOVE FINISHED FLOOR.	3/4"	-	2"	1-1/2"
L-1	LAVATORY (ACCESSIBLE)	AMERICAN-STANDARD	"LUCERNE" 0355.012 (4" CENTERS)	WALL-HUNG, VITREOUS CHINA, 20" X 18", FRONT OVERFLOW, INTEGRAL BACK-CHARGING FAUCETS MODEL 802-XA-BOP FAUCET WITH CERAMIC OPERATING CARTRIDGE, 4" CENTERS, 4" INTEGRAL SPOUT, LEVER HANDLES. ACCESSORIES: PROVIDE LEONARD 170-LF LEAD FREE BRONZE THERMOSTATIC MIXING VALVE WITH 0.25 GPM MINIMUM FLOW RATE, INTEGRAL CHECK VALVES, DISCHARGE SET AT 105 F, MOUNTED DOWNSTREAM OF FIXTURE STOPS, WITH HOT AND COLD WATER PIPED TO VALVE, TEMPERED [DESIGNER NOTE: OMIT COLD FOR FAUCET FOR SINGLE TEMP FAUCET] [AND COLD] WATER TO LAVATORY. CHICAGO FAUCETS MODEL 337-XCP OFFSET GRID DRAIN [327-CP GRID DRAIN] [DESIGNER NOTE: OMIT GRID DRAIN IF USING POP UP DRAIN, SUBSTITUTE 327-CP FOR NON-ACCESSIBLE APPLICATION] 1-1/4" X 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT AND CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS. PROVIDE WITH FULLY MOLDED FLEXIBLE VINYL INSULATION KIT TO COVER TRAP, SUPPLIES AND STOPS, TRIBURO E-Z LAV GUARD. NOTE: MOUNT FIXTURE RIM 34" ABOVE FLOOR.	1/2"	1/2"	1-1/2"	1-1/2"
S-1	SINK (ACCESSIBLE)	ELKAY	LRAD-291855	DOUBLE COMPARTMENT 29 x 18 SELF PRIMING SINK, 18 GA. TYPE 304 STAINLESS STEEL, 5-1/2" DEEP BOWL, DELTA MODEL 9115-DST BSSA DECK MOUNTED FAUCET WITH CERAMIC OPERATING CARTRIDGE, SINGLE LEVER HANDLE 2 FUNCTION PULL DOWN 9-3/8 SWING SPOUT WITH MAGNETIC DOCKING, DUAL CHECK AND 1.8 GPM AERATOR, 1 OR 3 HOLE MOUNTING [WITH OPTIONAL DECK PLATE]. ACCESSORIES: ELKAY LK-35AD STRAINER[S] WITH OFFSET 1-1/2" TAILPIECES, [DESIGNER NOTE: OMIT STRAINER ON COMPARTMENT WITH DISPOSER] 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS. GARBAGE DISPOSAL: IN-SINK-GRATOR [CHOOSE ONE] BAOGBR 5 DISPOSAL WITH CORD AND PLUG, 1/2 HP, 120V/1PH/60HZ [EVOLUTION BASIC DISPOSER WITH CORD AND PLUG, STAINLESS STEEL GRIND CHAMBER, 3/4 HP, 120V/1PH/60HZ].	1/2"	1/2"	2"	1-1/2"
IM-1	ICE MAKER WALL BOX	SILOUX CHIEF	696-G1000 SERIES	RECESSED ICE MAKER WALL BOX WITH QUARTER TURN VALVE AND 1/2" INLET, ABS COVER.	1/2"	-	-	-
FD-1	FLOOR DRAIN	SILOUX CHIEF	833-225NR (ROUND) 833-225NQ (SQUARE)	GENERAL PURPOSE, CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS, OUTLET SIZE PER PLANS. PROVIDE WITH SQUARE GRATE WHERE DRAIN IS INSTALLED IN TILE FLOORS. NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.	-	-	2"	1-1/2"
DF-1	DRINKING FOUNTAIN (ACCESSIBLE)	ELKAY	EZSTL8WS	B-I-LEVEL CABINET WITH BOTTLE FILLER, ACCESSIBLE BARRIER-FREE B-I-LEVEL COOLER, 8.0 G.P.H. (50" F WATER WITH 90" F AIR TEMPERATURE), PUSH BAR ACTIVATION, STAINLESS STEEL COOLER TOP, HEAVY GAUGE [VINYL CLAD STEEL CABINET WITH GREY FINISH] [STAINLESS STEEL CABINET], CANE APRON ON UPPER BOWL, ELECTRONIC ACTUATED INTEGRAL BOTTLE FILLER STATION ON LOWER FOUNTAIN [WITH 3000 GALLON FILTER AND AUTO-RESET WATER SENTRY SYSTEM, 120V/1PH/60HZ. SLOAN "ECOS" 8186-0.125 (0.125 GPF) BATTERY OPERATED ELECTRONIC FLUSH VALVE WITH MANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP. SLOAN "ROYAL" 186SSS (0.125 GPF) HARD WIRED ELECTRONIC DIAPHRAGM FLUSH VALVE, MANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP WITH OPTIMA WALL MOUNTED SENSOR, PROVIDE 120/24 REMOTE TRANSFORMER FOR UP TO 10 FLUSH VALVES. NOTES: MOUNT FIXTURE RIM 24" ABOVE FINISHED FLOOR.	1/2"	-	1-1/2"	1-1/2"
DF-2	DRINKING FOUNTAIN	ELKAY	LZSBWSSK	SINGLE CABINET WITH BOTTLE FILLER, BARRIER-FREE COOLER, 8.0 GPH (50" F WATER WITH 90" F AIR TEMPERATURE), FRONT AND SIDE PUSH BARS, STAINLESS STEEL COOLER TOP, HEAVY GAUGE STAINLESS STEEL CABINET, 120V/1PH/60HZ. ACCESSORIES: 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED SUPPLY AND STOP, J.R. SMITH FLOOR MOUNTED TYPE SUPPORT WITH "PRO-SET" UPRIGHTS. NOTES: MOUNT WITH SPOUT 40" ABOVE FINISH FLOOR.	1/2"	-	1-1/2"	1-1/2"
SH-1	SHOWER	PER ARCHITECT	-	SYMMON'S MODEL 9601-X-PLR-1.5' ORIGINS SHOWER SYSTEM WITH TEMPTROL PRESSURE BALANCED SHOWER VALVE WITH LEVER HANDLE, LIMIT STOP AND INTEGRAL SERVICE STOPS, 1.5 GPM (4-141) SHOWERHEAD WITH ARM AND FLANGE.	1/2"	1/2"	2"	1-1/2"
SH-2	SHOWER (ADA)	PER ARCHITECT	-	SYMMON'S MODEL 9606-X-PLR-1.5' ORIGINS SHOWER AND SHOWER SYSTEM WITH TEMPTROL PRESSURE BALANCED MIXING VALVE WITH LEVER HANDLE, LIMIT STOP AND INTEGRAL SERVICE STOPS, 1.5 GPM (4-141) SHOWERHEAD WITH ARM AND FLANGE, ACCESSIBLE 36" GRAB BAR FOR HAND SHOWER AND ACCESSIBLE HAND SHOWER WITH NON-POSITIVE SHUT OFF, 60" STAINLESS STEEL HOSE, IN-LINE VACUUM BREAKER, SEPARATE DUAL OUTLET DIVERTER.	1/2"	1/2"	2"	1-1/2"
TD-1	TRENCH DRAIN	ZURN	Z880-SOG	2" WIDE PRE-SLOPED MODULAR HOPE TRENCH SYSTEM, TOTAL LENGTH AS INDICATED ON DRAWINGS, CUT SECTION(S) TO LENGTH. PROVIDE WITH DECORATIVE STAINLESS STEEL GRATE SECTIONS, PROVIDE WITH END CAP(S) AND BOTTOM DRAIN CONNECTION FITTINGS WITH P-TRAP, LOCATION AS INDICATED ON DRAWINGS.	-	-	2"	1-1/2"

WATER HEATER SCHEDULE (ATMOSPHERIC GAS)

MARK NO.	MANUFACTURER	MODEL NO.	TANK LINING	TANK CAPACITY (GAL)	RECOVERY (GPH @ 90F)	INPUT (MBH)	MIN. THERMAL EFF. %	VENT SIZE (IN)	THERMAL EXPANSION TANK MODEL NO.	ELECTRICAL			NOTES
										VOLT	ø	HZ	
DWH-1	RHEEM	PRO340-40N	GLASS	40	40.4	40	80	4	PLT-12	120	1	60	1,2,3
DWH-2	RHEEM	PRO340-40N	GLASS	40	40.4	40	80	4	PLT-12	120	1	60	1,2,3
DWH-3	RHEEM	XG75T06PV76UO	GLASS	75	73	75	80	4	PLT-12	120	1	60	1,2,3
DWH-4	RHEEM	XG75T06PV76UO	GLASS	75	73	75	80	4	PLT-12	120	1	60	1,2,3
NOTES: 1. PROVIDE WITH TEMPERATURE AND PRESSURE RELIEF VALVE AND DRAIN. 2. PROVIDE WITH CONTROL THERMAL EXPANSION TANK, WATTS MODEL AND SCHEDULED WITH WATTS SOV SERVICE CHECK VALVE. 3. PROVIDE TYPE 'B' DOUBLE WALL FLUE.													

PLUMBING PUMP SCHEDULE

MARK NO.	MANUFACTURER	MODEL	USE	TYPE	FLOW (GPM)	HEAD (FT.)	RPM	ELECTRICAL				NOTES
								VOLT	ø	HZ	HP	
CP-1	BELL & GOSSETT	PL30B	RECIRC	INLINE	0.5	5	2450	120	1	60	1/12	1
NOTES: 1. PROVIDE WITH AQUASTAT AND AUTOMATIC TIMER KIT. 2. PROVIDE WITH HIGH LEVEL ALARM AND FLOAT SWITCH, CORD AND PLUG, AND DIFFERENTIAL FLOAT SWITCH. CONFIRM OIL MINDER IS NOT REQUIRED. 3. PROVIDE WITH 24" DIAMETER HEAVY DUTY GRATE FIBERBASIN WITH PIPE DISCHARGE THROUGH THE TOP. COORDINATE BASIN HEIGHT WITH PIPING PRIOR TO ORDERING BASIN.												

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- G. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- H. PIPING ROUTED BELOW COUNTER IN CABINETS SHALL BE ROUTED AS NOTED. NOT TO INTERFERE WITH DRAWERS, SHELVES, EQUIPMENT, ETC., AND SUPPORT FROM BACK WALL OF CABINET.
- I. PLUMBING CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.
- J. PLUMBING CONTRACTOR SHALL PROVIDE PRO-SET SYSTEMS 'TRAP GUARD' IN ALL FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.

PLUMBING SYMBOLS

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW PIPING
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	NATURAL GAS
	SANITARY VENT ABOVE GROUND/FLOOR
	SANITARY VENT BELOW GROUND/FLOOR
	SANITARY WASTE ABOVE GROUND/FLOOR
	SANITARY WASTE BELOW GROUND/FLOOR
	BALANCE VALVE
	GAS SHUT-OFF COCK
	CHECK VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	STRAINER WITH BLOW DOWN VALVE
	SHUT OFF VALVE
	IN-LINE PUMP
	UNION
	FLANGE CONNECTION
	FLOOR DRAIN OR EQMT FLOOR DRAIN
	PIPE DROP/PIPE RISE
	BOTTOM OUTLET TEE
	TOP OUTLET TEE
	WALL CLEAN OUT
	FINISHED FLOOR CLEANOUT
	SANITARY VENT THROUGH ROOF
	EQUIPMENT TYPE AND DESIGNATION
	PLUMBING FIXTURE DESIGNATION
	EXISTING TO REMAIN
	CONNECT TO EXISTING

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SHEET TITLE:
PLUMBING SCHEDULES,
NOTES, & SYMBOLS

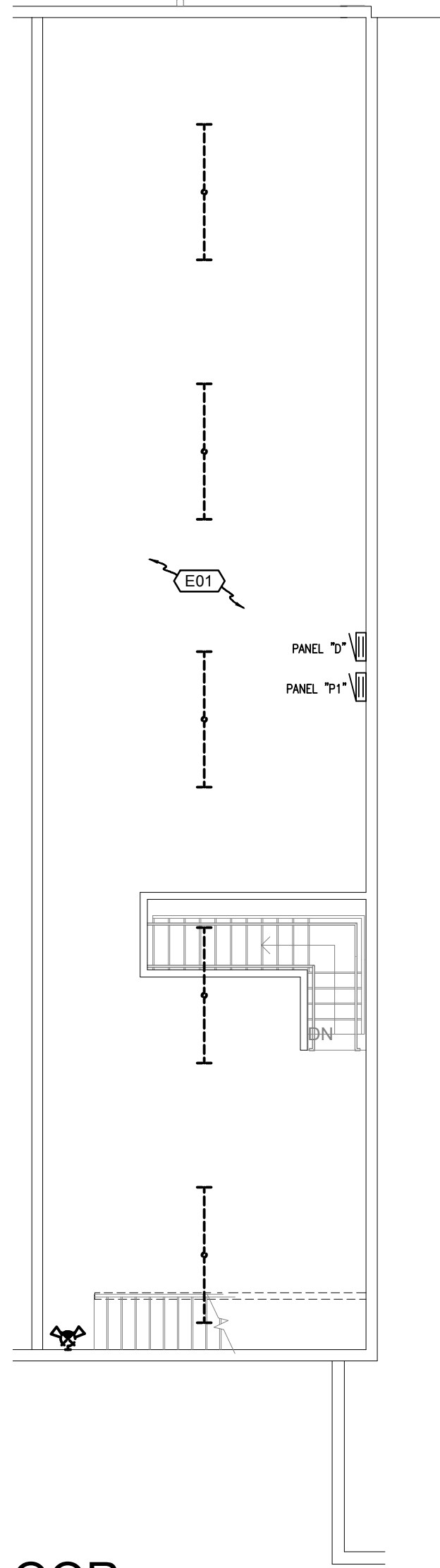
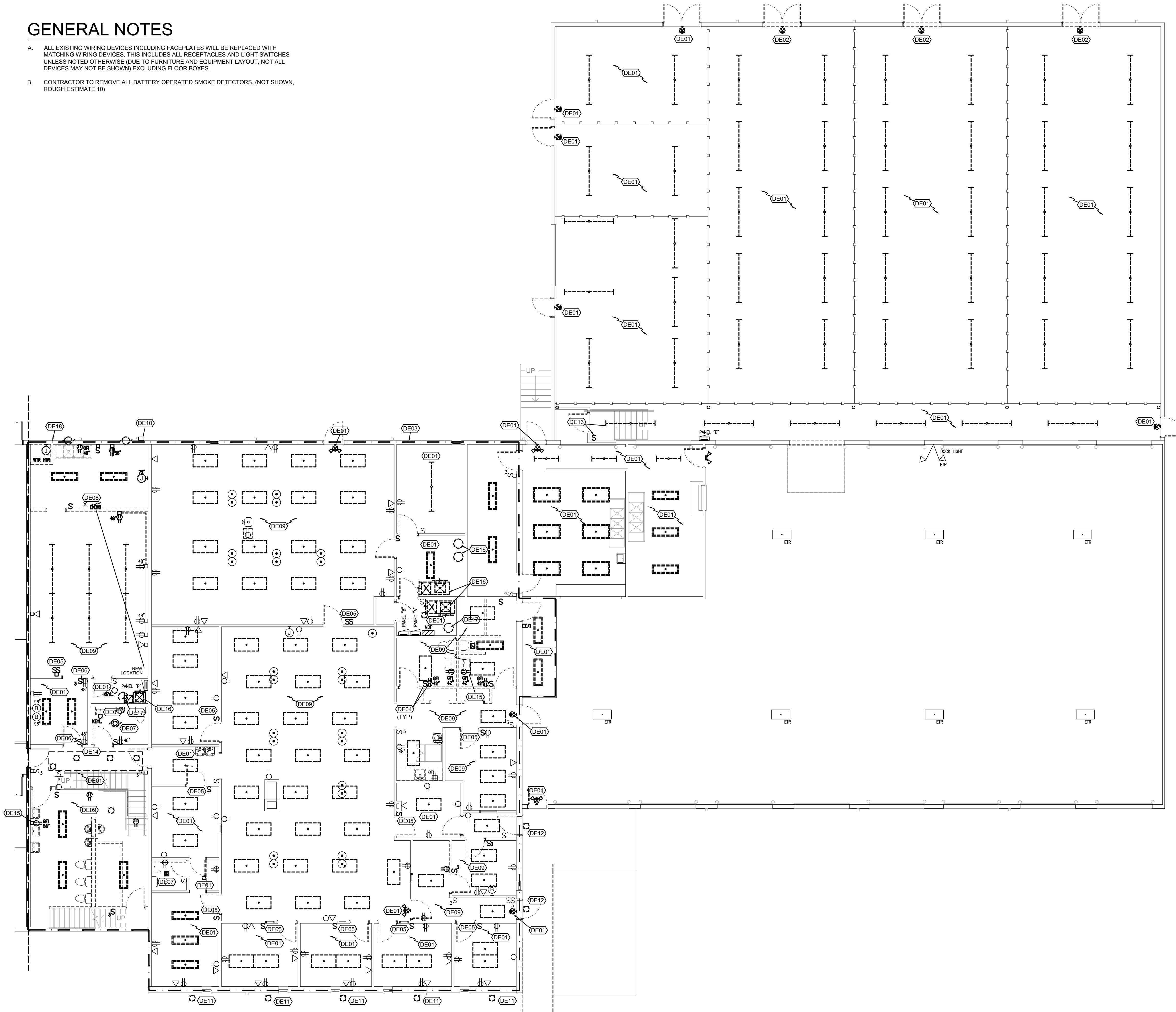
SHEET NUMBER:

GENERAL NOTES

- A. ALL EXISTING WIRING DEVICES INCLUDING FACEPLATES WILL BE REPLACED WITH MATCHING WIRING DEVICES. THIS INCLUDES ALL RECEPTACLES AND LIGHT SWITCHES UNLESS NOTED OTHERWISE (DUE TO FURNITURE AND EQUIPMENT LAYOUT, NOT ALL DEVICES MAY NOT BE SHOWN) EXCLUDING FLOOR BOXES.
- B. CONTRACTOR TO REMOVE ALL BATTERY OPERATED SMOKE DETECTORS. (NOT SHOWN, ROUGH ESTIMATE 10)

FLOOR PLAN NOTES

1. DISCONNECT AND REMOVE LIGHT FIXTURE, MAINTAIN WIRING FOR RECONNECTION TO EXISTING CIRCUITRY (1 FOR 1 REPLACEMENT), UNLESS NOTED OTHERWISE.
2. DISCONNECT AND REMOVE EXIT SIGN, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE, REFERENCE NEW WORK PLAN TO SEE IF THE CIRCUITRY CAN BE REUSED/EXTENDED AS NEEDED.
3. SEE GENERAL NOTE 'A'.
4. ALL DEVICES INDICATED WITH A HEAVY LINE WEIGHT SHALL BE DISCONNECTED AND REMOVED, REMOVE ALL CONDUIT AND WIRING BACK TO LAST USED SOURCE.
5. DISCONNECT AND REMOVE LIGHT SWITCH, REMOVE WIRING, REFERENCE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
6. DISCONNECT AND REMOVE EXISTING 3-WAY SWITCH, MAINTAIN THE BOX AND PROVIDE NEW COVER-PLATE. RELOCATE 3-WAY SWITCH WIRING AS INDICATED ON NEW WORK LIGHTING PLAN.
7. REFERENCE MECHANICAL PLAN FOR LIGHT/EXHAUST FAN TYPE. DISCONNECT OLD AND RECONNECT NEW (1 FOR 1 REPLACEMENT).
8. PRIOR TO DISCONNECTING AND REMOVING/RELOCATING THIS PANEL, 2-WEEK NOTICE MUST BE GIVEN AS THIS PANEL FEEDS THE ARMS VAULT OUTSIDE. NEW CIRCUIT SHOULD BE IN PLACE FOR A ONE DAY CUT OVER FOR ARMS VAULT POWER DISCONNECT AND RECONNECTION. ONCE THIS HAS BEEN MADE, REMOVE PANEL AND ALL CONDUIT AND WIRING BACK TO ITS SOURCE.
9. COORDINATE WORK IN THIS AREA, IT IS POSSIBLY TO REUSE EXISTING LIGHTING CIRCUIT. REFERENCE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
10. DUE TO NEW STAIRCASE, CONTRACTOR TO DISCONNECT AND REMOVE SECTION OF CONDUIT/WIRING FEEDING THE CONDENSING UNIT. REROUTE AND RECONNECT TO THE DISCONNECT AROUND THE STAIRCASE.
11. REMOVE EXISTING UNDER SOFFIT LIGHT, REFERENCE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
12. LOCATION NO LONGER BEING USED, REMOVE CONDUIT/ WIRING, AND OR SPLICE WIRES FOR CONTINUATION OF EXISTING CIRCUITRY.
13. REPLACE LIGHT SWITCH THAT CONTROLS THE CORRIDOR ONLY. REFERENCE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
14. REFERENCE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
15. MAINTAIN CIRCUITRY FOR REUSE. REFERENCE POWER PLAN FOR ADDITIONAL INFORMATION.
16. TURN POWER OFF, DISCONNECT EXISTING UNIT AND MAINTAIN CIRCUITRY FOR FUTURE CONNECTION.
17. TURN POWER OFF, DISCONNECT EXISTING WATER HEATER, REMOVE CONDUIT AND WIRING BACK TO ITS SOURCE. REMOVE BREAKERS. REFERENCE SYSTEMS PLAN AND ELECTRICAL EQ. CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
18. RELOCATE ELECTRICAL AS NEEDED FOR NEW DOORWAY OPENING.



LEVEL 1 FLOOR PLAN-ELECTRICAL DEMOLITION
SCALE: 1/8"=1'-0"

LEVEL 2 FLOOR
PLAN-ELECTRICAL DEMOLITION
SCALE: 1/8"=1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Professional Seal of Allison A. Lankford, State of Missouri, License Number E-24254, dated 01.21.2025.

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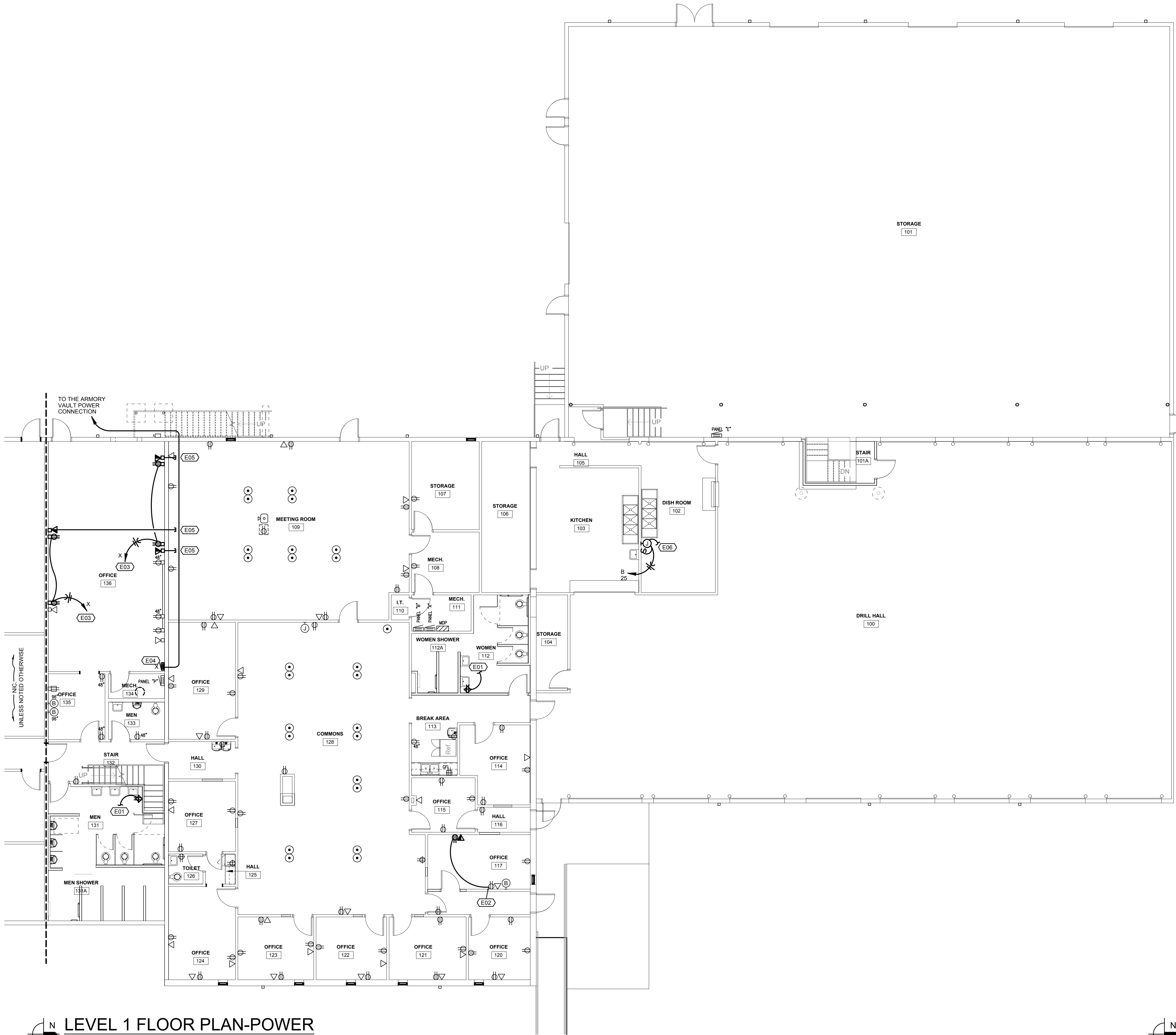
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SITE #: 6256
ASSET#: 8136256005

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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 01/21/2025

CAD DWG FILE: _____
DRAWN BY: LFa
CHECKED BY: GfF
DESIGNED BY: AVM/BCD

SHEET TITLE:
LEVEL 1 - FLOOR PLAN
ELECTRICAL DEMOLITION

SHEET NUMBER:
E111
21 OF 26



FLOOR PLAN NOTES

- CONNECT TO EXISTING CIRCUITRY MAINTAINED DURING DEMOLITION WORK.
- CONNECT TO EXISTING CIRCUITRY IN THIS ROOM.
- HOMERUN AND PROVIDE NEW 20A/1P BREAKER.
- NEW LOCATION OF EXISTING PANEL. EXTEND/SPICE EXISTING 100A/2P FEEDER TO NEW LOCATION. PRIOR TO TURNING POWER OFF, FROM THE NEW LOCATION, PROVIDE A NEW 3/4"C, WITH 3-#8 & 1-#10 GROUND WIRE OUT TO THE ARMORY VAULT (AV) (CONTINUOUS CONDUIT, NO SPLICES, USE COMPRESSION FITTINGS) READY TO MAKE A CONNECTION TO THE AV. WHEN SCHEDULE ALLOWS, TURN POWER OFF TO THE PANEL, DISCONNECT AND RELOCATE THE PANEL TO THIS LOCATION. REMOVE THE OLD AV BRANCH CIRCUIT, MAKE THE NEW AV CONNECTION. CONNECT THE AV BRANCH CIRCUIT TO THE PANEL.
- STUB LOW VOLTAGE CONDUIT INTO AN ACCESSIBLE CEILING SPACE.
- PRIOR TO INSTALLATION, COORDINATE WITH OWNERSHIP LOCATION OF DISHWASHER, HEATER, PROVIDE SINGLE POLE TOGGLE DISCONNECT SWITCH AND MAKE CONNECTION PER THE MANUFACTURERS RECOMMENDATION.

LEVEL 1 FLOOR PLAN-POWER
SCALE: 1/8"=1'-0"

LEVEL 2 FLOOR
PLAN-POWER
SCALE: 1/8"=1'-0"

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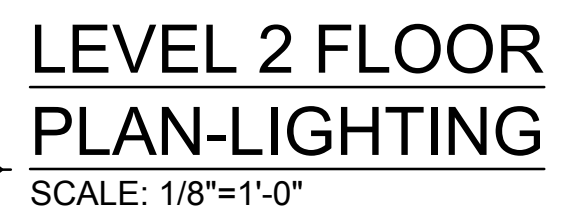
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CHECKED BY: GJF
DESIGNED BY: AVM/BCD

SHEET TITLE:
LEVEL 1 - FLOOR PLAN
POWER

SHEET NUMBER:

- A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
- B. NEW CIRCUITRY SHOWN FOR NEW/EXISTING LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS, EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- C. SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (2) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
- D. CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.
- E. LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER IBC 1006.1.
- F. MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS.

1. RECONNECT TO EXISTING HOT LEG IN THIS AREA.
2. RECONNECT TO EXISTING CIRCUITRY IN THIS AREA MAINTAINED DURING DEMOLITION WORK. EXTEND EXISTING WIRING AS NECESSARY.
3. MOUNT TO UNDERSIDE OF THE BEAM.
4. MOUNT EM FIXTURE TO MATCH EM FIXTURES ON BEAM.
5. MOUNTED MIN. OF 3' ABOVE LOCKERS. ALL EM FIXTURES TO BE MOUNTED AT A CONSISTENT HEIGHT.
6. PENDANT MOUNT EXIT SIGN. SIGN SHALL BE ABOVE EXIT DOOR AND BE IN A VISIBLE LOCATION.
7. PROVIDE SURFACE MOUNTED KIT. (DIMMING NOT REQUIRED IN THIS ROOM)
8. EXTEND CONDUIT/CIRCUITRY DOWN FROM EXISTING EXTERIOR DOWNLIGHT LOCATION. MOUNT AS HIGH AS POSSIBLE.
9. PENDANT MOUNT LIGHT TO MATCH EXISTING IN THIS SPACE.



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GENERAL NOTES

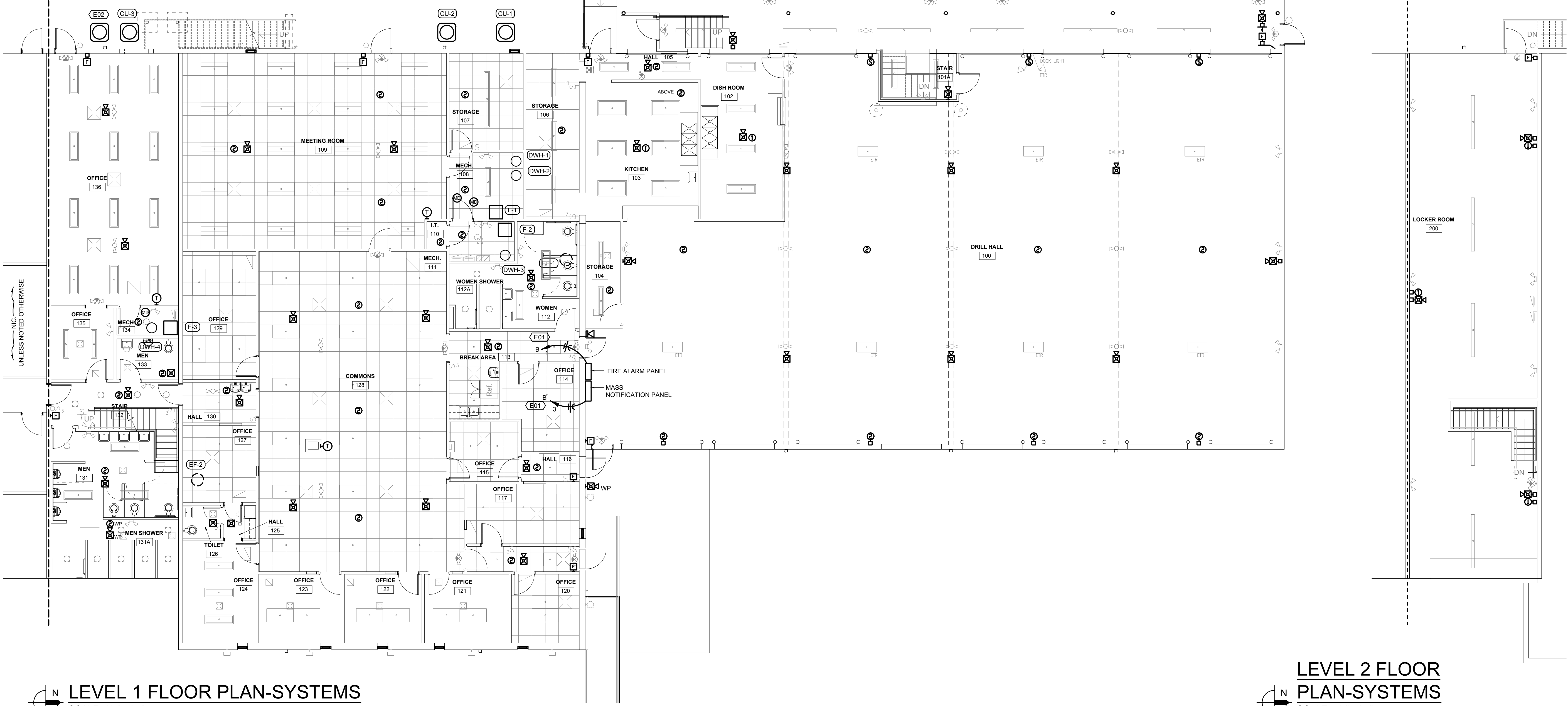
- A. REVIEW SPECIFICATION SERIES 28XXXX SECTIONS. SYSTEM SHALL CONTAIN A LOCAL DIALER TO A LOCAL NUMBER FOR MONITORING.
- B. PROVIDE, INSTALL, & VERIFY TEXT DISPLAY LOCATION WITH OWNER AND ARCHITECT.

ELECTRICAL SYMBOLS

- SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
- ⊙ CEILING MOUNTED SPEAKER TYPE AS INDICATED
- ⊙ CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
- ⊙ DUCT MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
- ⊙ CEILING MOUNTED HEAT DETECTOR
- ⊙ FA VISUAL FIRE ALARM STROBE LIGHT +6'-8" A.F.F.
- ⊙ FA VISUAL FIRE ALARM STROBE LIGHT, CEILING MOUNTED
- ⊙ FA COMBINATION AUDIBLE/VISUAL WALL MOUNTED, +6'-8" AFF.
- ⊙ FA COMBINATION AUDIBLE/VISUAL CEILING MOUNTED (FLUSH)
- ⊙ FIRE ALARM MANUAL PULL STATION. +4'-0" AFF

FLOOR PLAN NOTES

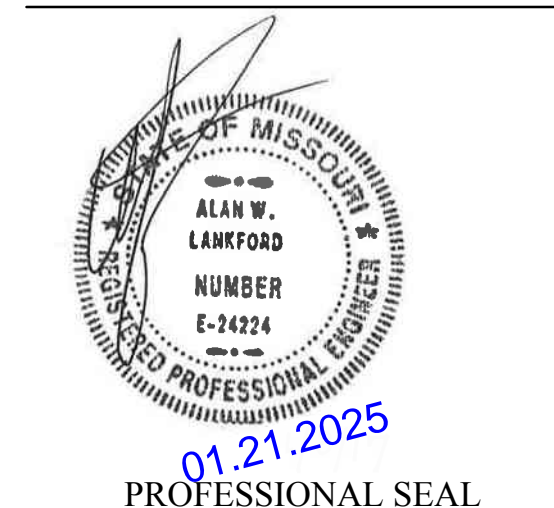
1. HOMERUN TO PANEL INDICATED, PROVIDE 20A/1P BREAKER IN EXISTING PANEL. PAINT RED HANDLE RED AND LABEL "FAMNS POWER".
2. RELOCATE DISCONNECT FOR EXISTING CONDENSING UNIT SO IT DOES NOT INTERFERE WITH NEW STAIRWELL.



LEVEL 1 FLOOR PLAN-SYSTEMS
SCALE: 1/8"=1'-0"

LEVEL 2 FLOOR
PLAN-SYSTEMS
SCALE: 1/8"=1'-0"

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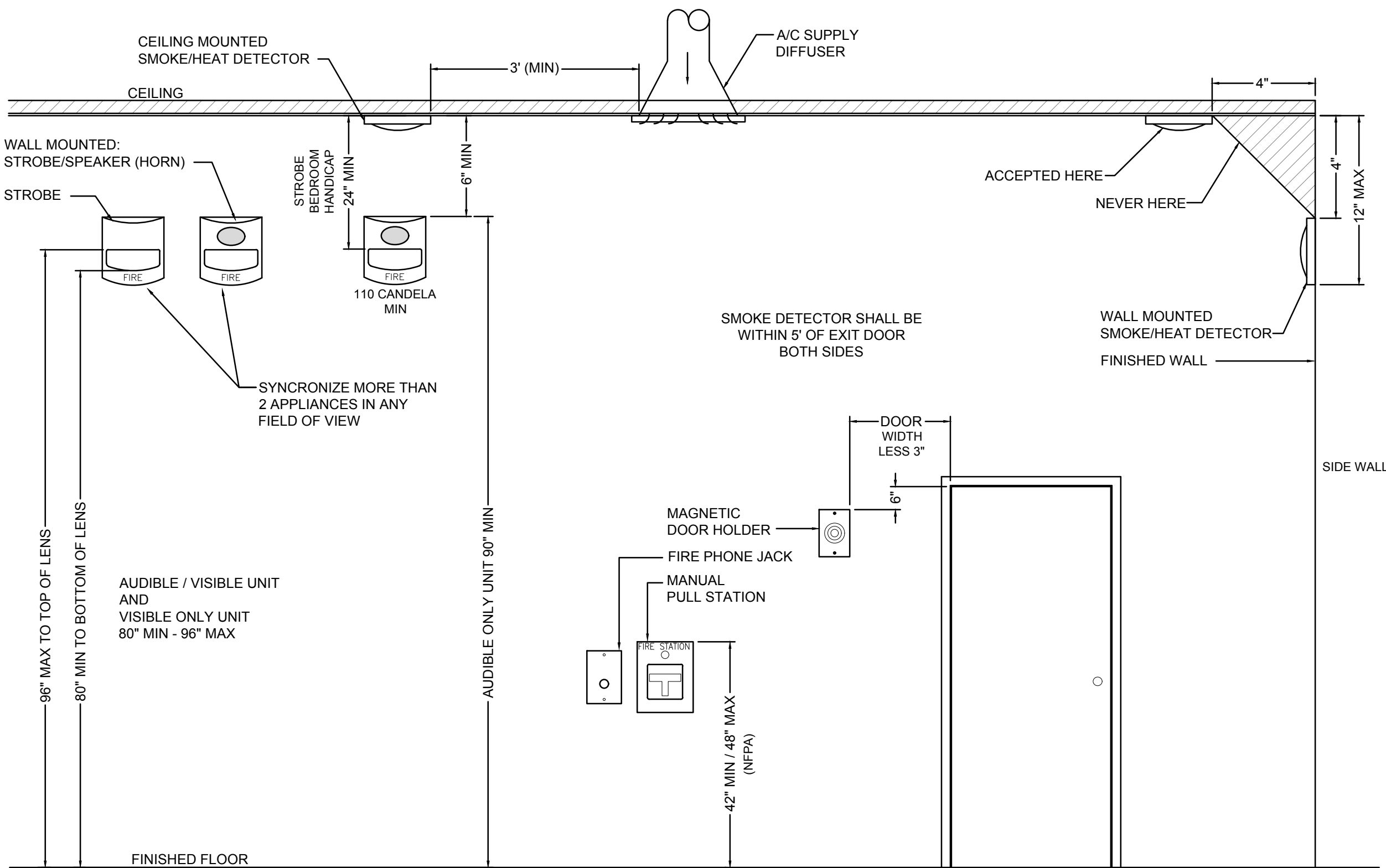
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DRAWN BY: LFa
CHECKED BY: GJF
DESIGNED BY: AVM/BCD

SHEET TITLE:
LEVEL 1 - FLOOR PLAN
SYSTEMS

SHEET NUMBER:

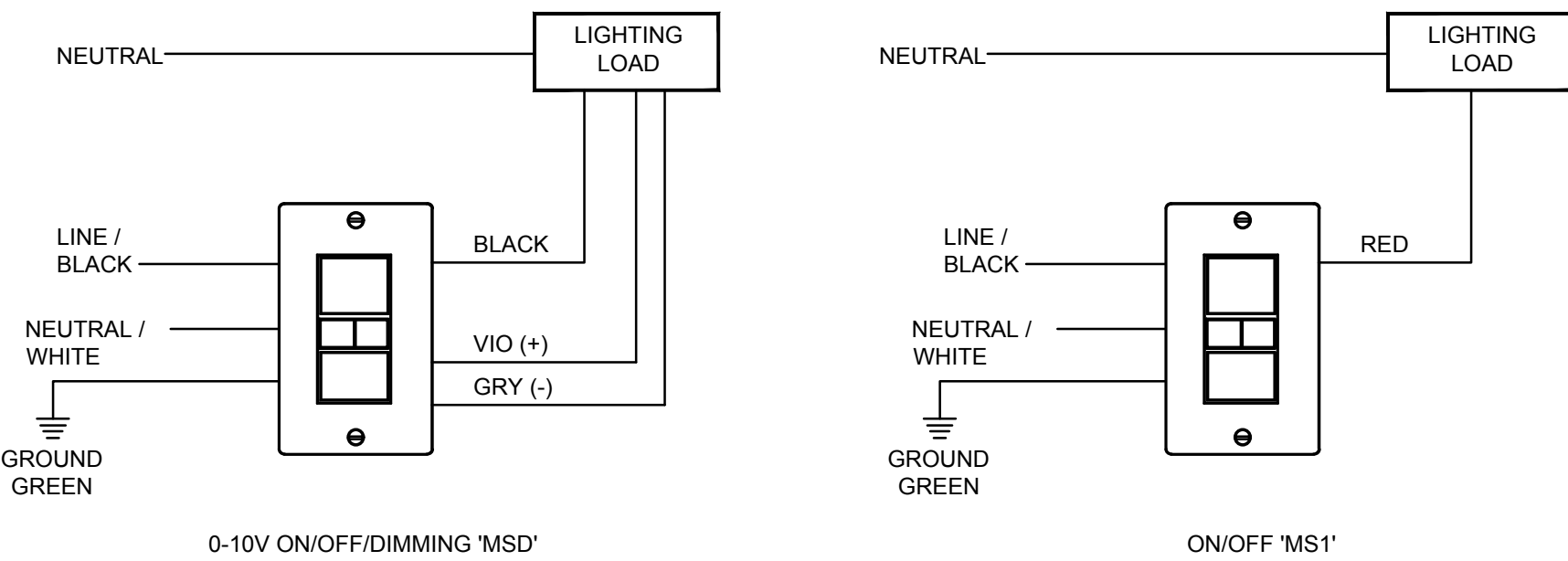
E213
24 OF 26



NOTE: NOT ALL DEVICES INDICATED, MOUNTING HEIGHTS SHOWN ARE PER NFPA 72. FOR ADDITIONAL INFORMATION REFERENCE NFPA 72.

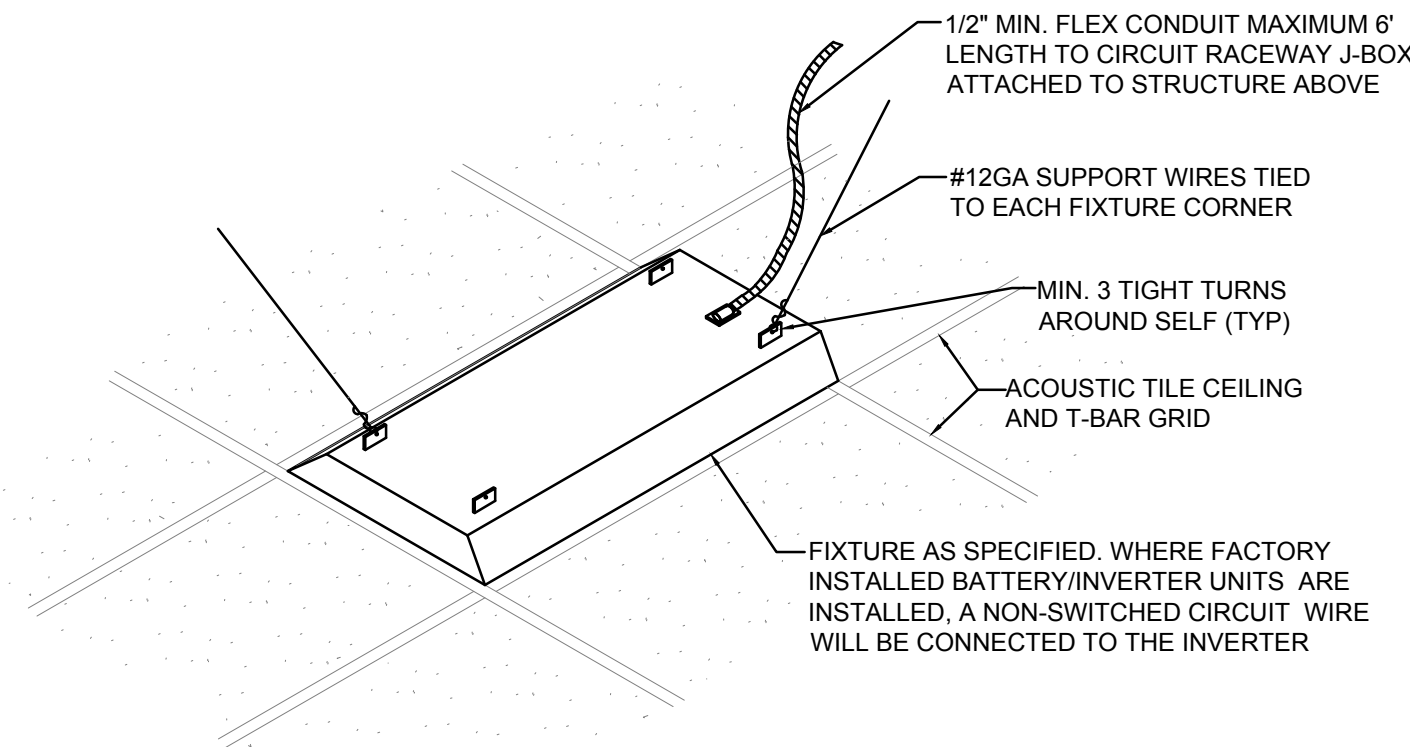
FIRE ALARM MOUNTING DEVICE DETAIL

NO SCALE



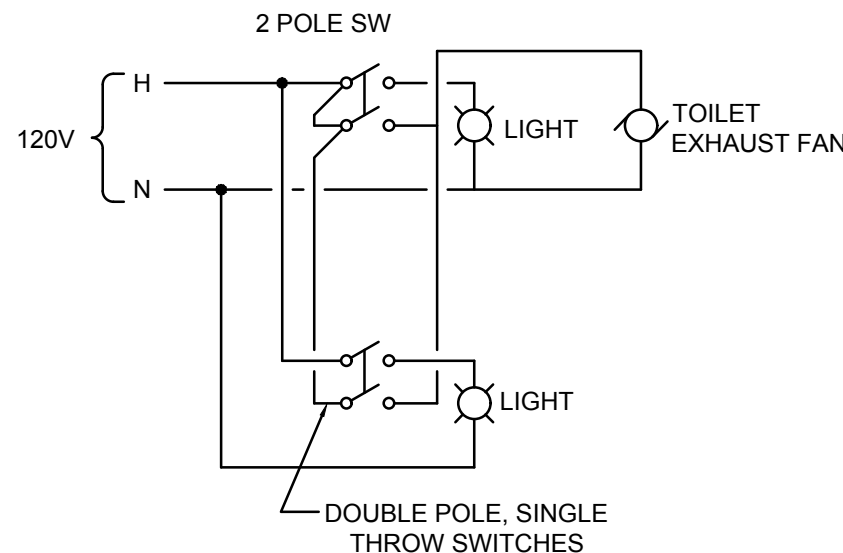
WALL MOUNTED MOTION SENSOR SWITCH SINGLE ZONE ON/OFF DETAIL

NO SCALE



LIGHT FIXTURE MOUNTING AND BRACING DETAIL

NO SCALE



EF-2 TOILET EXHAUST FAN CONTROL SCHEMATIC

NO SCALE

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART *						
OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

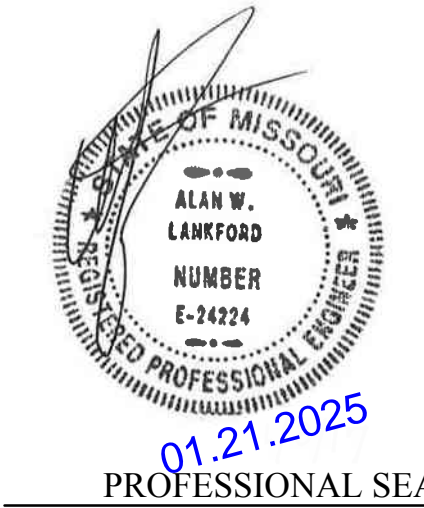
- * = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- * = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.
- * = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

UNIT ID (PLAN MARKING)	DESCRIPTION	HP	A	KW	VOLTS	PH	DISCONNECT SWITCH					NEUTRAL WIRE REQUIRED	NOTES	REVISION
							SIZE	VOLTAGE RATING	NUMBER OF POLES	NEMA TYPE	MOCP (NOTE 2)			
F 1	FURNACE	1/2	12	--	120	1	--	--	--	-	15	EXIST	3	--
CU 1	CONDENSING UNIT	1/6	18	--	208	1	--	--	--	-	30	EXIST	3	--
F 2	FURNACE	1	12	--	120	1	--	--	--	-	15	EXIST	3	--
CU 2	CONDENSING UNIT	1/3	29.6	--	208	1	60	250	3	3R	50	EXIST	3	--
F 3	FURNACE	1/2	12	--	120	1	--	--	--	-	15	EXIST	3.5	--
CU 3	CONDENSING UNIT	1/6	18	--	208	1	--	--	--	-	30	EXIST	3	--
DWH 1	DOMESTIC WATER HEATER		1	NA	120	1	--	--	--	-	--	EXIST	3	--
DHW 2	DOMESTIC WATER HEATER		1	NA	120	1	--	--	--	-	--	EXIST	3	--
DHW 3	DOMESTIC WATER HEATER		1	NA	120	1	15	250	1	1	15	YES	6	--
DHW 4	DOMESTIC WATER HEATER		1	NA	120	1	15	250	1	1	15	YES	6	--
EF 1	EXHAUST FAN	1/6	4.4	--	120	1	--	--	--	-	--	YES	4	--
EF 2	EXHAUST FAN	1/6	4.4	--	120	1	--	--	--	-	--	YES	4	--

- GENERAL NOTE:
- A DISCONNECTS SHALL BE 'HP' HORSE POWER RATED WHERE APPLICABLE.
- NOTES:
- 1 XY/Z
X=FURNISHED BY DIVISION
Y=INSTALLED BY DIVISION
Z=CONNECTED BY DIVISION
22 = PLUMGING, 23 = MECHANICAL, 26 = ELECTRICAL
- 2 MAXIMUM OVERCURRENT PROTECTION FUSE AND OR CIRCUIT BREAKER, PER MANUFACTURE'S LABEL
- 3 EXTEND EXISTING BRANCH CIRCUIT TO NEW ELECTRICAL CONNECTION. NEW WIRING TO MATCH EXISTING.
- 4 CONNECT TO LIGHTING CIRCUITRY FOR ON/OFF CONTROL.
- 5 NEW LOCATION OF CU
- 6 PROVIDE NEW BREAKER (15A/1P) IN EXISTING PANEL/SPACE THAT PREVIOUSLY FED EXISTING WATER HEATER. INSTALL BLANK PLATE OVER OPENING. LABEL ACCORDINLY. INSTALL CONDUIT AND WIRING TO NEW WATER HEATER FROM PANEL.

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CHECKED BY: GJF
DESIGNED BY: AVMB/BCD

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:

LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	LAMPS	WATTS	DIMMING	DESCRIPTION	NOTES
			VOLTS	PROTOCOL		
A2	COLUMBIA LTG CBT-22-A-LSCS-EDD OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	28 120	NO ON/OFF	2X2 RECESSED LED FLAT PANEL LIGHT FIXTURE, CCT SWITCHABLE	
A4	COLUMBIA LTG CBT-24-A-LSCS-EDD OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	38 120	YES 0-10V	2X4 RECESSED LED FLAT PANEL LIGHT FIXTURE, CCT SWITCHABLE, PROVIDE 0-10V CONTROLS (PROVIDE COMPATIBILITY 0-10V DIMMER BY LUTRON DVTV SERIES OR EQUAL.)	
B	COLUMBIA LTG CRW4-LSCS OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	34 120	YES 0-10V	SURFACE MOUNTED WRAP AROUND LED LIGHT FIXTURE, FROSTED LENS, CCT SWITCHABLE (PROVIDE COMPATIBILITY 0-10V DIMMER BY LUTRON DVTV SERIES OR EQUAL.)	
C	COLUMBIA LTG CRW4-LSCS OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	34 120	NO ON/OFF	SIMILAR TO TYPE 'B' EXCEPT - EXCEPT NON-DIMMING	
D4	COLUMBIA LTG CSL4-A-LSCS OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	32.5 120	NO ON/OFF	4' LONG LED STRIP FIXTURE WITH WHITE HOUSING, ROUND FROSTED OPTICS	
D8	COLUMBIA LTG CSL8-A-LSCS OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	65 / 81 120	NO ON/OFF	8' LONG LED STRIP FIXTURE WITH WHITE HOUSING, ROUND FROSTED OPTICS FOR OFFICE AREA USE LOW LUMEN SETTING, FOR BACK STORAGE ARE USE HIGH LUMEN SETTING)	
E1	COMPASS CUSD OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED	1.5 120	NO NA	SURFACE MOUNTED EMERGENCY LIGHT, WHITE HOUSING, SELF-TEST/SELF-DIAGNOSTICS	
E2	SURE-LITES CU2HCHSD OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED	2 120	NO NA	SURFACE MOUNTED EMERGENCY LIGHT, WHITE HOUSING, SELF-TEST/SELF-DIAGNOSTICS, HIGH OUTPUT	
F4	COLUMBIA LTG LCAT24-S-LSCS OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	30 120	YES 0-10V	2X4, RECESSED ARCHITECTURAL LED TROFFER, CENTER DROP DOWN OPTICS, FROSTED LENS	
G	COMPASS CUSO4BK-HND OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED 4000K	3.6 120	NO ON/OFF	EXTERIOR LOW PROFILE LED LIGHT FIXTURE, BRONZE FINISH, NICAD BATTERY FOR EMERGENCY LIGHT, WET LOCATION LISTED, PHOTO-CELL CONTROLLED.	
H	RETROFIT MANUF - TBD	LED	10 120	NO ON/OFF	PROVIDE RETROFIT LED DOWNLIGHT KIT TO MATCH DOWNLIGHT, SIMILAR TO A WAFER LIGHT or PRESCOLITE DISK LIGHT WIRETROFIT KIT	
I & J	NOT USED					
K	PRESOLITE LBSD-4RD-CS9-WH OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	8.2 120	NO ON/OFF	J-BOX MOUNTED, SURFACE MOUNTED LOW PROFILE LED DOWNLIGHT, WHITE TRIM	
L	LITHONIA LTG WDGE1-LED-PBBW OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED	4 120	NO ON/OFF	LOW PROFILE WEDGE LED EXTERIOR LIGHT FIXTURE, BRONZE FINISH	
M	HALO LIGHTING SLDSL6-06-9S-MW-X OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED CCT	8.7 120	NO ON/OFF	WET LOCATION LISTED SHOWER LIGHT, LOW PROFILE, WHITE TRIM, CCT SELECTABLE	
X1	COMPASS CERSD OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED	1.5 120	NO NA	LED EXIT SIGN, WHITE HOUSING, RED LETTERS, NICAD BATTERY, SEFL-TEST/SELF-DIAGNOSTICS	
X2	COMPASS CCRRCSO OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED	1.5 120	NO NA	COMBO LED EXIT SIGN WITH TWO ADJUSTABLE EMERGENCY HEADS, REMOTE CAPACITY, WHITE HOUSING, RED LETTERS, NICAD BATTERY, SEFL-TEST/SELF-DIAGNOSTICS	
XE	COMPASS CORS OR EQUIVALENT BY ANOTHER MANUFACTURER.	LED	NA NA	NA NA	REMOTE EMERGENCY LIGHTS, POWERED FROM TYPE X2 FIXTURE.	

SPECIFIC NOTES:

GENERAL NOTE:

- G1. ELECTRICAL CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ANY LIGHT FIXTURES.
G2. ELECTRICAL CONTRACTOR SHALL COORDINATE DIMMING DRIVERS/BALLASTS WITH DIMMING SWITCHES/SYSTEMS AND SHALL INCLUDE ALL REQUIRED CONTROL WIRING.

GENERAL NOTES(TYPICAL ALL SHEETS)

- A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
- B. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- C. REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.
- D. ALL JUNCTION BOXES FOR RECEPTACLES SHALL BE EVENLY SPACED ALONG WALL.
- E. CONTRACTOR SHALL CONNECT EXISTING 120V LIGHTS AND RECEPTACLES TO SPARE 20A/1P CIRCUIT BREAKER(S) IN NEW PANELBOARD. LABEL CIRCUIT BREAKER WITH CORRECT IDENTIFICATION.
- F. INSTALL BLANK COVERPLATE ON ALL OPEN OR ABANDONED DEVICE BOXES. VERIFY COLOR WITH ARCHITECT.
- G. WIRING TO BE REMOVED BACK TO THE NEAREST DEVICE TO REMAIN. WIRING SHALL NOT BE TAKEN PAST THE FIRST JUNCTION BOX BEFORE THE PANELBOARD.
- H. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- I. NEW CIRCUITRY SHOWN FOR NEWEXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- J. PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.
- K. CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.
- L. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH NEW FIRE ALARMMAS NOTIFICATION SYSTEM. THIS WORK SHALL INCLUDE POWER EXTENDER PANEL, SMOKE DETECTORS, HORN/STROBES, PULL STATIONS, REMOTE INDICATING LIGHTS AND ANY OTHER FIRE ALARM WORK SHOWN ON PLANS. ALL WIRING, PLENUM RATED CABLING, BETWEEN DEVICES SHALL BE INCLUDED IN WORK TO PROVIDE AN OPERATIONAL EXTENSION OF THE EXISTING FIRE ALARM SYSTEM.
- M. PROVIDE FIRE STOP ON ALL PIPING AT FLOOR PENETRATIONS PER LOCAL CODE REQUIREMENTS. METHOD OF FIRE STOP SHALL MEET WALL RATING. RE: ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. PROVIDE FIRE CAP HOUSING FOR ALL FIXTURES THAT PENETRATE FIRE RATED CEILINGS.
- N. CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.
- O. OUTLETS INSTALLED IN FIRE RATED ASSEMBLES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- P. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY, PER N.E.C.
- Q. PROVIDE 3'-0" CLEARANCE IN FRONT OF DISCONNECTS TO CONDENSING UNITS.
- R. CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENING IN RATED ASSEMBLES PER MANUFACTURERS RECOMMENDATIONS PER FIRE RATED ASSEMBLES.
- S. INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.
- T. WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.
- U. REFERENCE EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION REQUIREMENTS TO ALL EQUIPMENT LISTED ON THIS SHEET.
- V. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RECONNECTION OF ALL EXISTING ELECTRICAL LOADS, WHICH ARE TO REMAIN, TO NEW ELECTRICAL DISTRIBUTION SYSTEM.
- W. (VE/DESIGN BUILD NOTE-DELETE FOR STANDARD CONSTRUCTION DWGS) DRAWINGS INDICATE DEDICATED CIRCUITS WITH NO SHARED NEUTRALS. IF CONTRACTOR HAS OWNER'S PERMISSION, MULTI-WIRE BRANCH CIRCUITS MAY SHARE A COMMON NEUTRAL. WHEN THIS OCCURS, THE CONTRACTOR SHALL FURNISH AND INSTALL A MANUFACTURED BREAKER HANDLE-TIE (NOT COPPER WIRE, NAIL, ETC.) BETWEEN THE SHARED BREAKERS (MAXIMUM OF 3 SHARED PHASES PER NEUTRAL, CAN ONLY SHARE NEUTRAL BETWEEN 15 OR 20 AMP RATED BREAKERS) FOR SIMULTANEOUS BREAKER TRIP OF SINGLE PHASE LOADS, TO MEET NFPA, NEC REQUIREMENTS. NO EXCEPTIONS: DO NOT SHARE NEUTRAL WHERE OUTLETS INDICATED WITH A 'D' FOR DEDICATED CIRCUIT.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTUER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

ELECTRICAL SYMBOLS

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE MINIMUM NO.12 UNLESS NOTED OTHERWISE.
	PHASE CONDUCTORS
	NEUTRAL CONDUCTOR
	SWITCH/LEG AND OR TRAVELER
	GROUND CONDUCTOR
	PANEL - BREAKER NUMBER (IDENTIFICATION)
	INDICATES X/X= 2-POLE C.B., X/X/X = 3-POLE C.B.
	HOMERUN INDICATED LIKE THIS INDICATED THREE SEPARATE CIRCUITS
	CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS: 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE, MINIMUM NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
	CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
	GROUNDING CONDUCTOR NO.12 WIRE EXCEPT AS NOTED
	EXIT SIGN - SINGLE FACED - ARROWS AS SHOWN ON DRAWING. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
	COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT - CEILING OR WALL MOUNTED. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS.
	LIGHT FIXTURE, LETTER DENOTES FIXTURE TYPE, REFER TO SCHEDULE
	SURFACE MOUNTED LIGHT FIXTURE
	STRIP FIXTURE, LETTER DENOTES FIXTURE TYPE, REFER TO SCHEDULE
	WALL WASH OR RECESSED CEILING LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
	MOTOR
	208Y/120V OR 120/240V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
	DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED).
	SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT STUBBED THRU WALL WITH BUSHINGS ON BOTH ENDS. SIZE AS NOTED ON PLANS.
	EMPTY CONDUIT STUB-UP INSIDE WALL TO ABOVE ACCESSIBLE CEILING WITH BUSHING ON THE END. SIZE AS NOTED ON DRAWINGS.
	POWER CONNECTION POINT
	DISCONNECT SWITCH, SIZE AND TYPE AS NOTED TOP MOUNTED 5'-0" AFF
	SINGLE POLE SWITCH. TOP OF DEVICE BOX AT +4'-0" AFF
	THREE-WAY SWITCH. TOP OF DEVICE BOX AT +4'-0" AFF
	DIMMER SWITCH. TOP OF DEVICE BOX AT +4'-0" AFF
	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
	GF DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
	DUPLEX RECEPTACLE WIGROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE MOUNTED IN CEILING TILE OR CEILING.
	RECESSED IN FLOOR POWER AND OR DATA ACCESS DEVICES
	HEAVY DUTY RECEPTACLE. VOLTAGE, PHASE AND AMPS AS NOTED. +1'-6" AFF OR AS NOTED.
	CEILING MOUNTED SPEAKER TYPE AS INDICATED
	CEILING MOUNTED MOTION DETECTOR TYPE AS INDICATED
	WALL MOUNTED OR CEILING MOUNTED JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX WITH BLANK COVERPLATE.
	LOW VOLTAGE OUTLET. DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING. INSTALL 1" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	LOW VOLTAGE OUTLET INSTALLED ABOVE COUNTER. DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING. INSTALL 1" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	INDICATES WIRING DEVICE ABOVE RE: DRAWING
	MECHANICAL EQUIPMENT CALL OUT BUBBLE
	ELECTRICAL EQUIPMENT PROVIDED BY AND INSTALLED BY E.C.
	HEIGHT TO TOP OF THE OUTLET BOX ABOVE FINISHED FLOOR
	ABOVE FINISH FLOOR
	EXISTING TO REMAIN
	FIRE ALARM

STATE OF MISSOURI
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CHECKED BY: GIF
DESIGNED BY: AVM/BCD

SHEET TITLE:
ELECTRICAL SCHEDULES,
NOTES, & SYMBOLS

SHEET NUMBER:

E312
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