

SEMCO EMERGENCY OPERATIONS CENTER

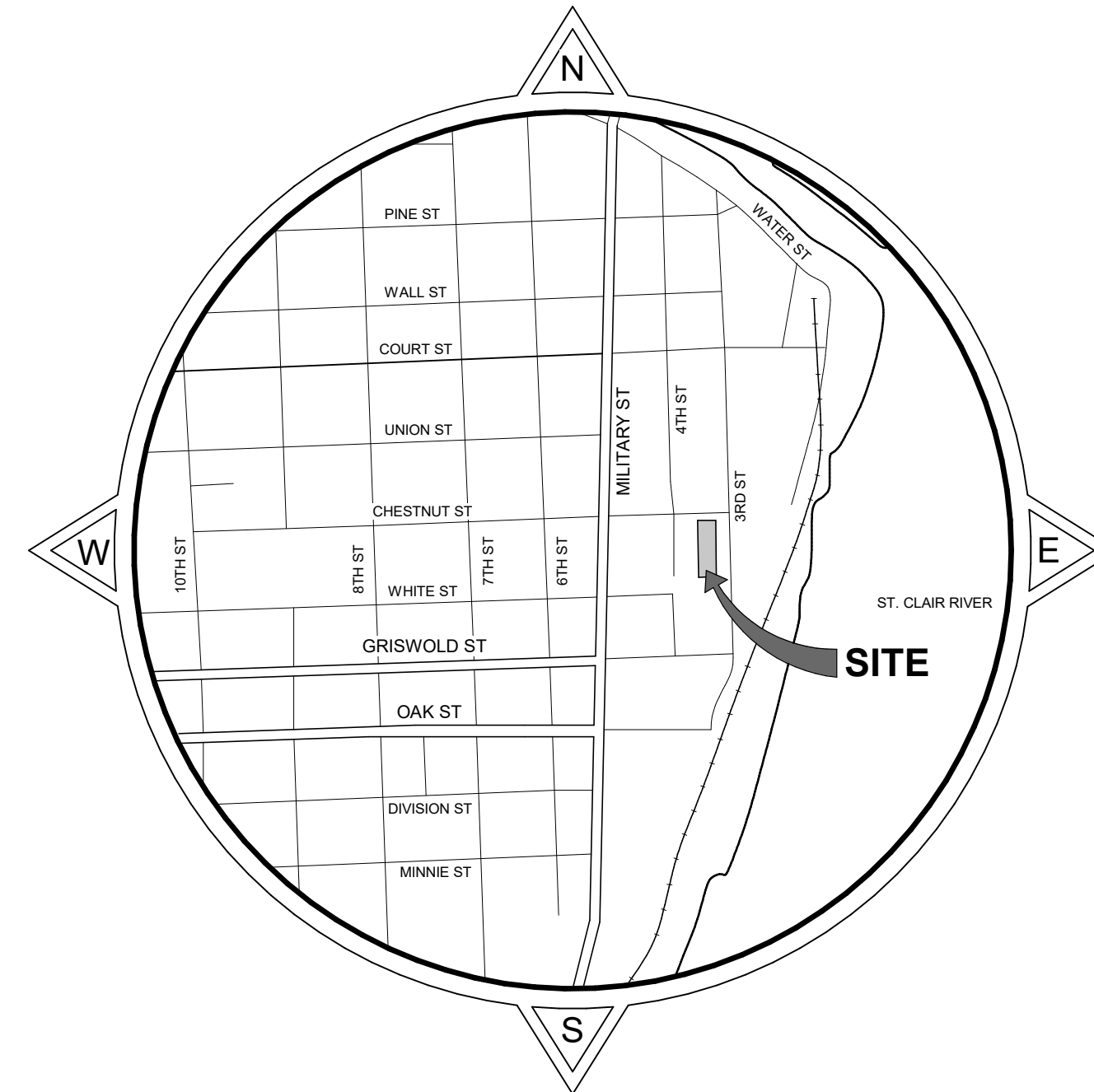
BUILD OUT PORT HURON, MICHIGAN

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I HEREBY CERTIFY THAT I HAVE READ THE TOWNSHIP'S LAND DEVELOPMENT ORDINANCE (AND ITS RELATED ENGINEERING AND CONSTRUCTION STANDARD), AND I HAVE PREPARED THESE PLANS IN CONFORMITY WITH THE REQUIREMENTS OF SAID ORDINANCE.

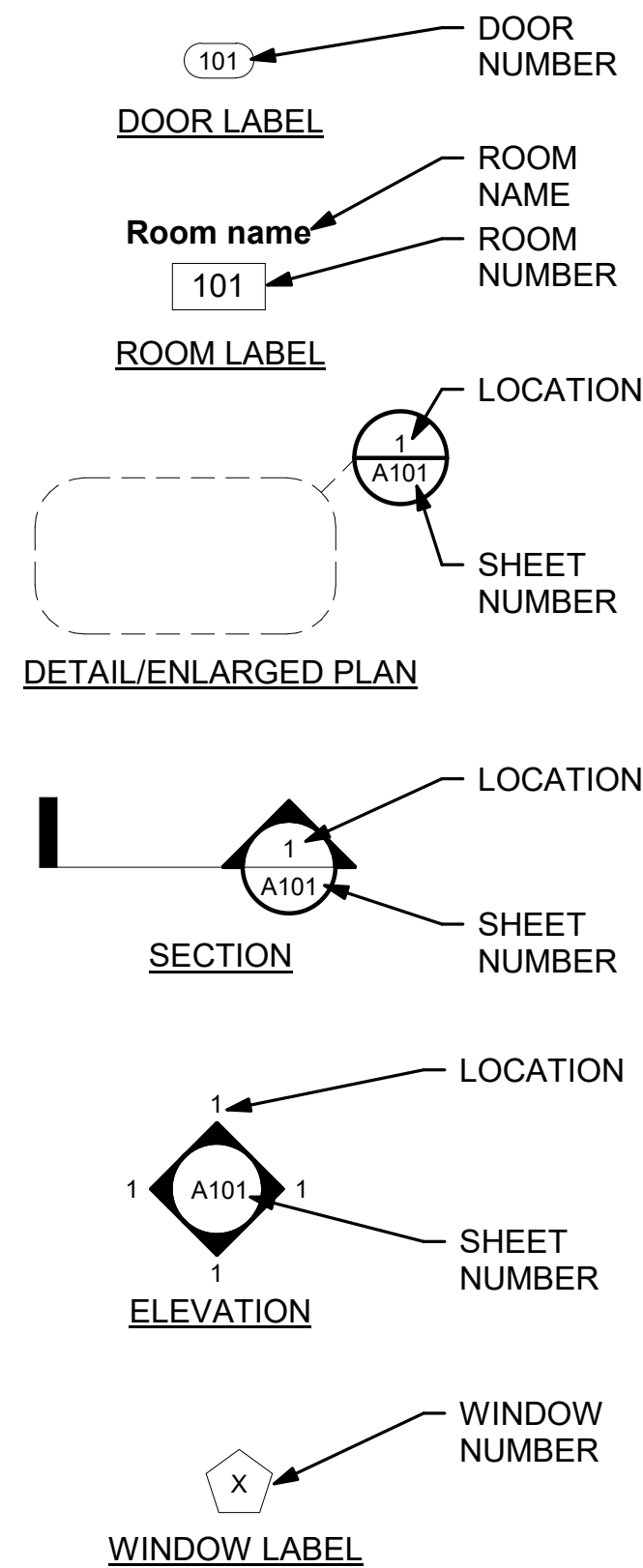
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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS USED. ABBREVIATIONS INCLUDE BUT NOT LIMITED TO THIS LIST.

A.F.F	ABOVE FINISH FLOOR	LHR	LEFT HAND REVERSE
ACCOM	ACCOMMODATE	MFR	MANUFACTURER
ACCORD	ACCORDANCE	MAX	MAXIMUM
A.C.P.	ACOUSTICAL PANEL	MECH.	MECHANICAL
ACOUS	ACOUSTICAL	MC	MECHANICAL CONTRACT (OR)
AD	ACCESS DOOR	M.P.E.	MISCELLANEOUS
ALT	ALTERNATE	MET	METAL
ALUM.	ALUMINUM	MIN	MINIMUM
ARCH	ARCHITECT	N/A	NOT APPLICABLE
@	AT	NC	NOT IN CONTRACT
BRG	BEARING	NTS	NOT TO SCALE
B PL	BEARING PLATE	NRC	NOISE REDUCTION COEFFICIENT
BIT	BITUMINOUS	NO OR #	NO OR #
BLK	BLOCK	OC	ON CENTER
BRD	BOARD	OPP.	OPPOSITE
BO TT	BOTTOM	OD	OUTSIDE DIAMETER
BRKT	BRACKET	OH	OVERHEAD
BLDG	BUILDINGS	PLAS.	PLASTIC
CAB	CABINET	PL	PLATE
CLG.	CEILING	PLYWD	PLYWOOD
CL	CENTER LINE	PO	POLYETHYLENE
CIRC	CIRCULATION	PSI	POUNDS PER SQ. INCH
CLO	CLOSET	PSF	POUNDS PER SQ. FOOT
COL	COLUMN	PVC	POLYVINYL CHLORIDE
COMP	COMPUTER	RWC	RAIN WATER CONDUCTOR
CMC.	CONCRETE	RCPT	RECEPTION
CMU	CONCRETE MASONRY UNIT	REC	RECESSED
CONF.	CONFERENCE	REF	REFLECTED
CONST	CONSTRUCTION	REINF	REINFORCING
COORD	COORDINATE	RE-BAR	REINFORCING BARS
CR	COAT RACK	REF.	REPRESENTATIVE
CRS	COURS	REQD	REQUIRED
DEMO	DEMOLISH, DEMOLITION	RF	ROOF FAN
DIA	DIAMETER	RFM	RECESSED FLOOR MAT
DIM	DIMENSION	RH	RIGHT HAND
DIV	DIVISION	RHR	RIGHT HAND REVERSE
DR	DOOR	ROW	RIGHT OF WAY
DN	DOWN	RD	ROOT DRAIN
DS	DOWN SPOUT	RM	ROOM
ELEC.	ELECTRICAL	RO	ROUGH OPENING
EWV	ELECTRICAL WATER COOLER	SCHED.	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SIM	SIMILAR
ELEV.	ELEVATION, ELEVATOR	SPEC	SPECIFICATION
ENG	ENGINEER	SPKLR	SPRINKLER
EQ	EQUAL	SS	STAINLESS STEEL
EX	EXISTING	STD	STANDARD
EXP	EXPANSION, EXPOSED	STL	STEEL
EJ	EXPANSION JOINT	STL JOIST	STEEL JOIST
EXT	EXTERIOR	STL STD	STEEL STUD
EF	EXHAUST FAN	STOR	STORAGE
FWC	FABRIC WALL COVERING	STRUCT.	STRUCTURE
F.V.	FIELD VERIFY	STRUTL	STRUCTURAL STEEL
F.R.P.	FIBERGLASS REINFORCED PANEL	SUSP.	SUSPENDED
FIN	FINISH	SYS	SYSTEM
FF	FINISHED FLOOR	TEL	TELEPHONE
FE	FIRE EXTINGUISHER	TEMP.	TEMPERED
FEC	FIRE EXTINGUISHER CABINET	T	TEMPERED GLAZED
FLR	FLOOR	T & G	TONGUE AND GROOVE
FD	FLOOR DRAIN	TOC	TOP OF CURB
FTG	FOOTING	TOP	TOP OF FOOTER
GA	GAGE, GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GC	GENERAL CONTRACTOR	TOM	TOP OF MASONRY
GWB	GYPSPUM DRYWALL (WALLBOARD)	TYP.	TYPICAL
GWB-X	GWB TYPE-X (FIRE RESISTIVE CLASSIFICATION)	UNO	UNLESS NOTED OTHERWISE
HC	HANDICAP	UR	URINAL
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	VB	VAPOR BARRIER
HT. / HGT.	HEIGHT	VF	VERIFY IN FIELD
H.M.	HOLLOW METAL STEEL	VERT	VERTICAL
HOR	HORIZONTAL	VCT	VINYL COMPOSITE TILE
ID	INSIDE DIAMETER	VWB	VINYL WALL BASE
INS	INCHES	VWC	VINYL WALL COVERING
JT	JOINT	WAIT	WAITING
JST	JOIST	WC	WATER CLOSET
KSF	KIPS PER SQUARE FOOT	WT	WEIGHT
LAM.	LAMINATE	WWF	WELDED WIRE FABRIC
LIN FT	LINEAR FOOT	W/	WITH
LLV	LONG LEG VERTICAL	W/O	WITH OUT
LAV	LAVATORY	WD	WOOD
LH	LEFT HAND	-	-
		#	FOOT, FEET INCH, INCHES POUNDS

SYMBOL KEY**THERMAL AND MOISTURE PROTECTION**

1. CAULK DOOR AND WINDOW FRAMES AT MASONRY WALLS. CAULK COMPOUND SHALL BE AN ELASTIC, WATERPROOF ADHESIVE FROM AN APPROVED MANUFACTURER. COLOR SELECTION BY ARCHITECT.

GENERAL DEMOLITION NOTES

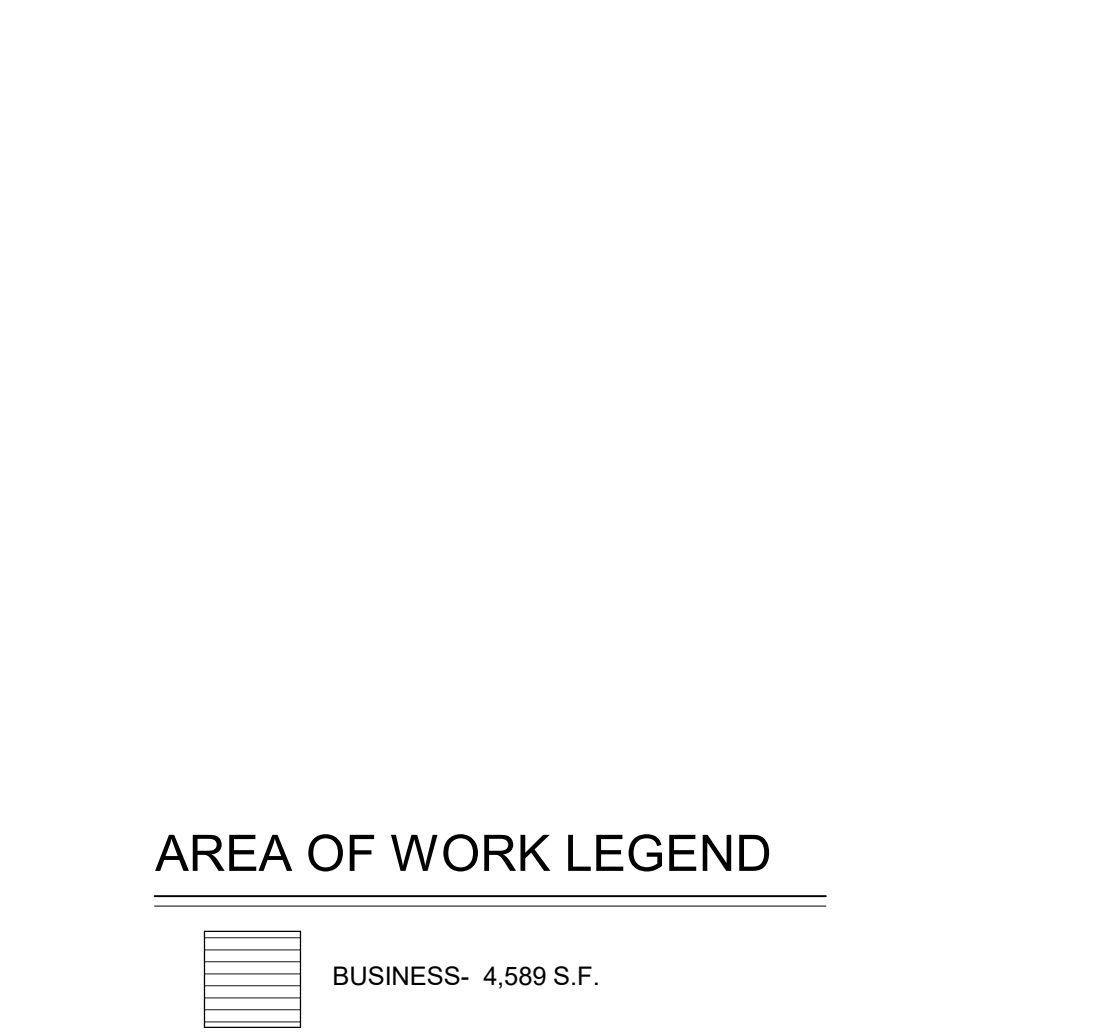
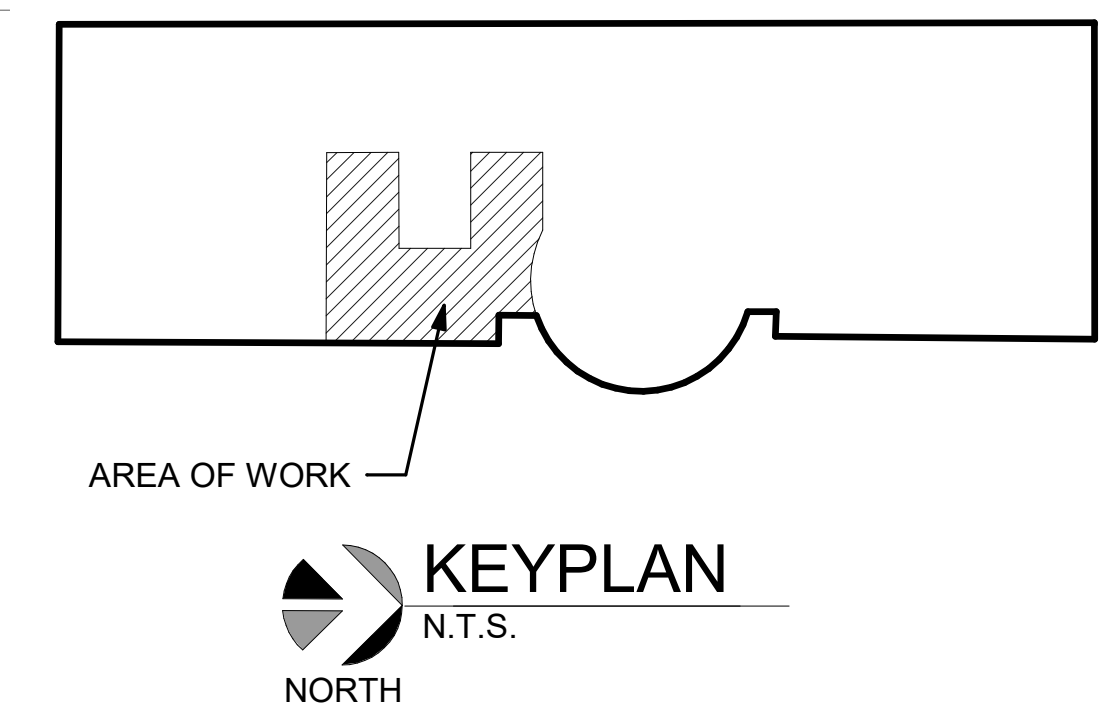
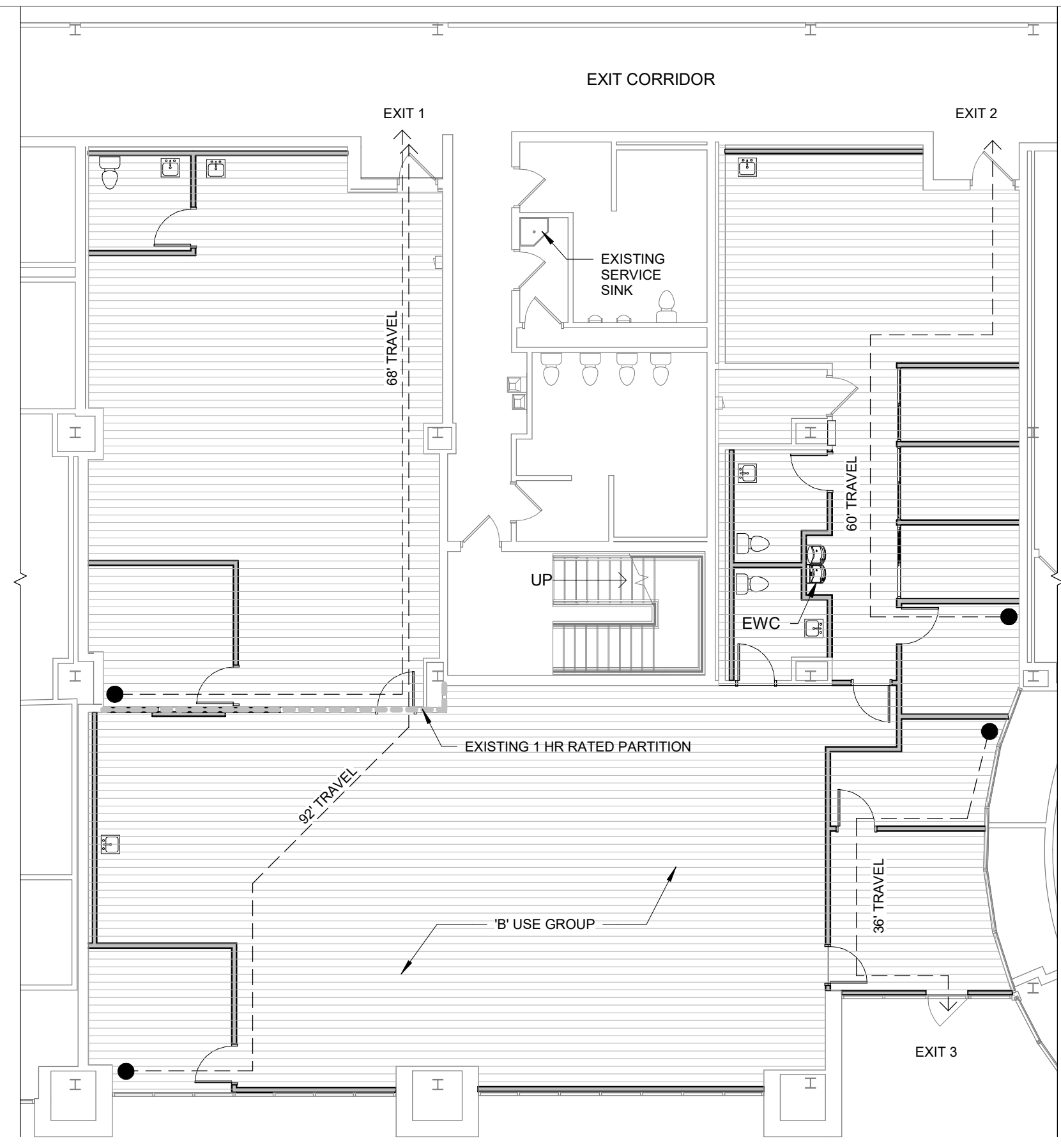
- REMOVE ALL ABANDONED MISC. HARDWARE, ACCESSORIES, SUPPORTS, BRACKETS, ANCHORS ETC. IN AREAS OF DEMOLITION (TYPICAL).
- REMOVE ALL ABANDONED WIRING, CABLES, RACEWAYS, SWITCHES AND OUTLETS AS REQUIRED.
- CUT AND CAP ALL ABANDONED PLUMBING BEHIND WALL. OR BELOW FLOOR.
- REMOVE ALL MISC. ATTACHMENTS THAT INTERFERE WITH NEW CONSTRUCTION OR AS SHOWN ON PLANS.
- OWNER HAS FIRST SALVAGE RIGHTS ON ALL ITEMS AND EQUIPMENT, VERIFY SALVAGE OF ITEMS AND EQUIPMENT WITH OWNER.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE DEMOLITION AND/OR CONSTRUCTION. CONTRACTOR SHALL COORDINATE DEMOLITION AND CONSTRUCTION TO COMPLETE WORK AS DEFINED ON PLAN, ELEVATIONS AND DETAILS.
- COORDINATE ALL DIMENSIONS WITH PROPOSED CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES DURING DEMOLITION & CONSTRUCTION. (WATER, SEWER, ELECTRICAL, GAS) VERIFY ALL EXISTING LOCATIONS.
- CONTRACTOR SHALL PROTECT ALL BUILDING ELEMENTS DURING CONSTRUCTION, RESTORE AS REQUIRED.
- ELEMENTS LABELED AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
- DASHED LINES INDICATE ITEMS TO BE REMOVED AS NOTED.
- REMOVE ALL EXISTING ELECTRICAL LIGHTING FIXTURES AS INDICATED ON PLAN OR THAT INTERFERE WITH CONSTRUCTION.
- REMOVE ALL EXISTING OUTLETS, SWITCHES AND COVER PLATES AS SHOWN ON PLANS OR THAT INTERFERE WITH CONSTRUCTION.
- REMOVE ALL MECHANICAL GRILLES, LOUVERS AND DIFFUSERS AS SHOWN ON PLAN OR THAT INTERFERE WITH CONSTRUCTION.
- COORDINATE AND VERIFY ALL DEMOLITION DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
- COORDINATE ALL DEMOLITION WITH MECHANICAL AND ELECTRICAL TRADES.
- CONTRACTOR SHALL REMOVE ALL ITEMS (ATTACHED OR OTHERWISE) WHICH REQUIRE REMOVAL OR ARE AFFECTED BY THE PROPOSED NEW CONSTRUCTION. THE CONTRACTOR SHALL FAMILIARIZE WITH THE EXISTING CONDITIONS AND SHALL COMPLETE ALL REQUIRED DEMOLITION (REGARDLESS WEATHER EACH INDIVIDUAL ITEM HAS BEEN IDENTIFIED).
- THE CONTRACTOR SHALL LEVEL / ADJUST SUBFLOOR AND OR CONCRETE FLOOR SLAB AS REQUIRED FOR FLOOR FINISH.

GENERAL NOTES

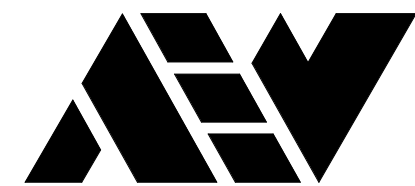
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES AND INSPECTIONS.
- ALL CONTRACTORS SHALL COORDINATE THE LOCATION OF DUCTS, PIPING, BOXES, CHASES, CONDUITS, ETC... WITH THE MECHANICAL, ELECTRICAL AND ALL OTHER TRADES.
- SEAL/MORTAR ALL OPENINGS AROUND PIPES, CONDUITS, ETC... WHICH PASS THROUGH FLOORS AND WALLS.
- CAULK ALL JOINTS BETWEEN DOOR FRAMES, WINDOW FRAMES, MASONRY WALLS AND ALL DISSIMILAR MATERIALS.
- PROVIDE ALL NECESSARY BLOCKING AS REQUIRED TO SUPPORT LIGHTING, SIGNS, BRACKETS, ACCESSORIES, ETC...
- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.
- ALL ITEMS NOTED "BY OWNER" OR "N.I.C." ARE NOT IN CONTRACT.
- CONTRACTOR TO INSTALL ONLY TYPE "X" FIRECODE GYPSUM BOARD BOTH SIDES OF STUD WALL FULL HEIGHT OF PARTITION TO UNDERSIDE OF STRUCTURE (TIGHT) AT RATED WALLS IE. STORAGE ROOM AND ELEC. / MECHANICAL.
- CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS EXISTING AND PROPOSED ON THE JOB. REPORT ALL DEVIATIONS FROM DRAWINGS PRIOR TO START OF CONSTRUCTION.
- ALL CONTRACTORS SHALL CONSTRUCT THIS PROJECT IN ACCORDANCE WITH ALL STATE, FEDERAL AND LOCAL CODES.
- ALL CONTRACTORS SHALL REPAIR ANY DAMAGES OR DISTURBANCES TO THE EXISTING BUILDING AND SITE. PATCH / REPAIR AND PAINT ANY WALLS DISTURBED FROM DEMOLITION.
- ALL WOOD AND MISC. BLOCKING MUST BE NON-COMBUSTIBLE MATERIAL.
- ALL INTERIOR CONTROL JOINTS SHALL BE CONSTRUCTED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE.
- ALL MATERIALS USED ARE REQUIRED TO BE OF GOOD QUALITY AND MEET OR EXCEED ALL APPLICABLE INDUSTRY STANDARDS.
- ALL WORK IS TO BE DONE WITH THE APPROPRIATE TOOLS AND MATERIALS. THE ARCHITECT HAS THE RIGHT TO REJECT ANY WORK NOT DONE APPROPRIATELY.
- REMOVE ALL TRASH AND DEBRIS FROM THE SITE. WASH ALL SURFACES DUST AND SWEEP TO REMOVE ALL DIRT. REMOVE ALL TEMPORARY LABELS.
- REPLACE ALL CONCRETE FLOOR WHICH WAS REMOVED AND OR DAMAGED FOR / DURING CONSTRUCTION. PREPARATION FOR FLOOR FINISH.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL PROVIDE ALL WORK SHOWN IN ANY PART OF THE DOCUMENTS, I.E. HAND DRYER SHOWN ON ARCHITECTURAL DRAWINGS MUST BE WIRED BY THE ELECTRICIAN WHETHER IT IS OR IS NOT SHOWN ON THE ELECTRICAL DRAWINGS.
- THE GENERAL CONTRACTOR SHALL PROVIDE A MIN. 1 YEAR (U.N.O.) WARRANTY ON ALL MATERIAL, EQUIPMENT AND WORK PERFORMED.
- ALL RATED WALLS TO BE UL LISTED PARTITIONS TIGHT TO METAL DECKING. FIRE CAULK ALL WALL PENETRATIONS AND FILL ALL VOIDS WITH FIRE SAFING BETWEEN TOP OF WALL AND DECKING AS REQUIRED. SEE LIFE SAFETY PLAN AND UL LISTINGS.
- PROVIDE FIRE DAMPER IN ALL DUCT WALL THAT PENETRATE RATED WALLS, FLOORS, SHAFTS

2015 MICHIGAN BUILDING CODE

ALL ITEMS REFERENCE 2015 MICHIGAN BUILDING CODE UNLESS NOTED OTHERWISE
USE GROUP (SECTION 302)
'B' BUSINESS
TYPE OF CONSTRUCTION (SECTION 601)
EXISTING TO REMAIN
BUILDING AREA (503)
EXISTING TO REMAIN (4,589 S.F.)
BUILDING HEIGHT (SECTION 503)
ALLOWABLE HEIGHT (TABLE 504.3 AND 504.4)
'B' BUSINESS EXISTING TO REMAIN
OCCUPANT LOAD (TABLE 1004.1.2)
'B' BUSINESS 100 GROSS 4,589 S.F./100 = 46
TOTAL 46
REQUIRED PLUMBING FIXTURES (MICHIGAN PLUMBING CODE TABLE 403.1)
WATERCLOSETS
'B' BUSINESS MEN 1 PER 75 = 1 REQUIRED WOMEN 1 PER 75 = 1 REQUIRED TOTAL 2 REQUIRED, 3 UNISEX PROVIDED
LAVATORIES
'B' BUSINESS 1 PER 40 = 1 REQUIRED 2 REQUIRED, 3 PROVIDED
DRINKING FOUNTAINS
'B' BUSINESS 1 PER 100 = 1 REQUIRED 1 REQUIRED, 1 PROVIDED
SERVICE SINKS
'B' BUSINESS 1 REQUIRED, 1 EXISTING PROVIDED
NUMBER OF EXITS (TABLE 1006.3.1)
'B' BUSINESS = 1 REQUIRED, 3 PROVIDED
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)
STRUCTURAL FRAME - 0
BEARING WALLS EXTERIOR - 0 INTERIOR - 0
NONBEARING WALLS (EXTERIOR/INTERIOR) - 0
FLOOR CONSTRUCTION - 0
ROOF CONSTRUCTION - 0
DEAD-END CORRIDORS (SECTION 1020.4) - NONE, MAXIMUM LENGTH (20'-0")
EXIT WIDTH (TABLE 1020.2)
MINIMUM 36", 60" PROVIDED
EXIST TRAVEL DISTANCE (TABLE 1017.2)
MAXIMUM 300' (WITH SPRINKLER SYSTEM), 92' PROVIDED



LIFE SAFETY FLOOR PLAN
1" = 10'-0"
NORTH



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ENGINEERING STRONG COMMUNITIES

12/09/2024	910 ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

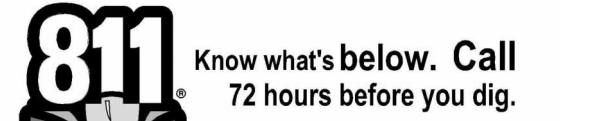
**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:

**GENERAL PROJECT
INFORMATION**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS SHALL BE VERIFIED IN THE FIELD DURING THE CONSTRUCTION. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 1584-0003

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12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:

ADA DETAILS

CLIENT:

SEMCO ENERGY GAS COMPANY

<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
SCALE: AS NOTED		



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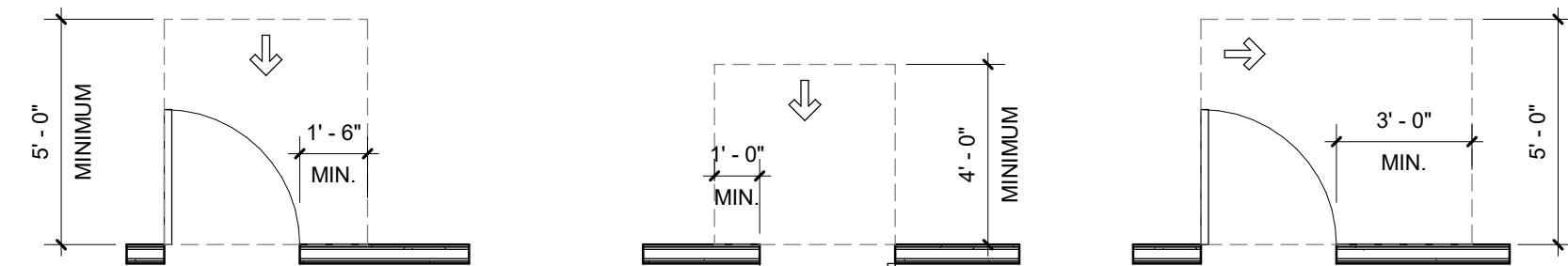
PROJECT NO.

1584-0003

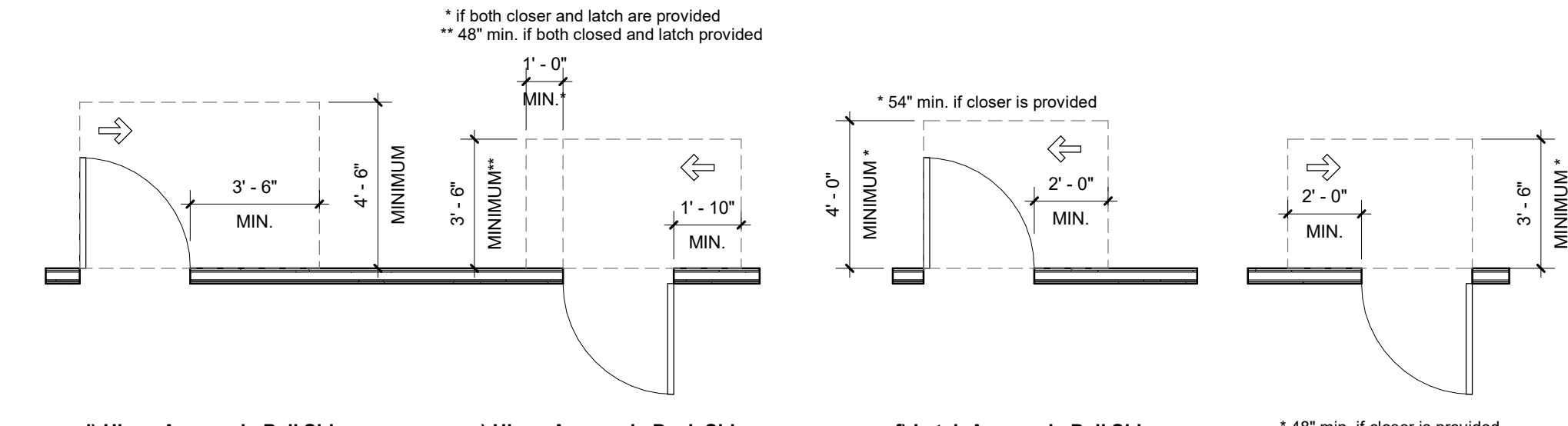
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SHEET NO.

A021



a) Front Approach, Pull Side b) Front Approach, Push Side c) Hinge Approach, Pull Side



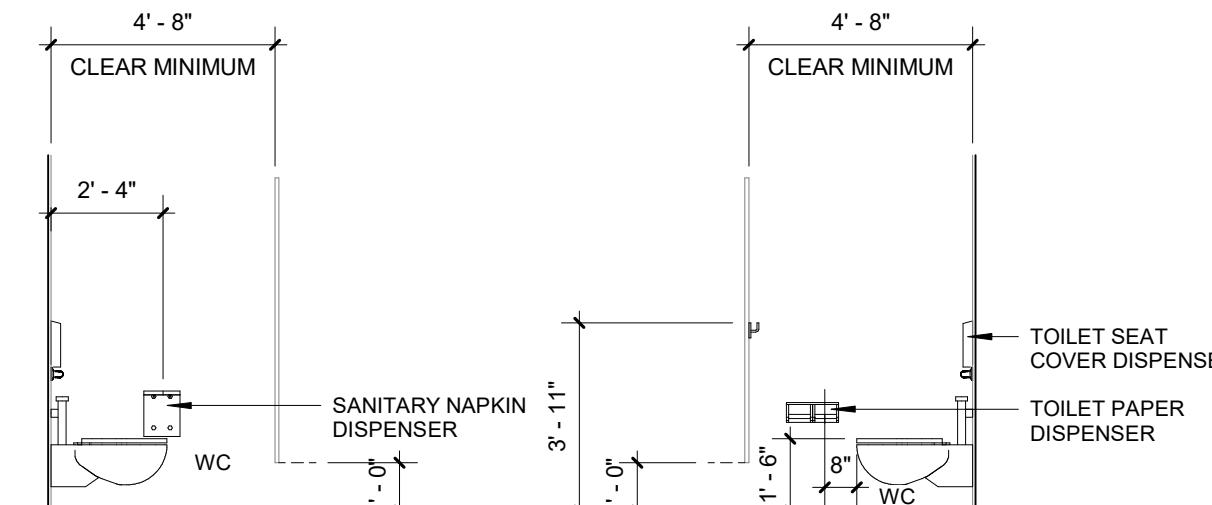
d) Hinge Approach, Pull Side e) Hinge Approach, Push Side f) Latch Approach, Pull Side g) Latch Approach, Push Side

**MANEUVERING CLEARANCE
AT MANUAL SWINGING DOORS**

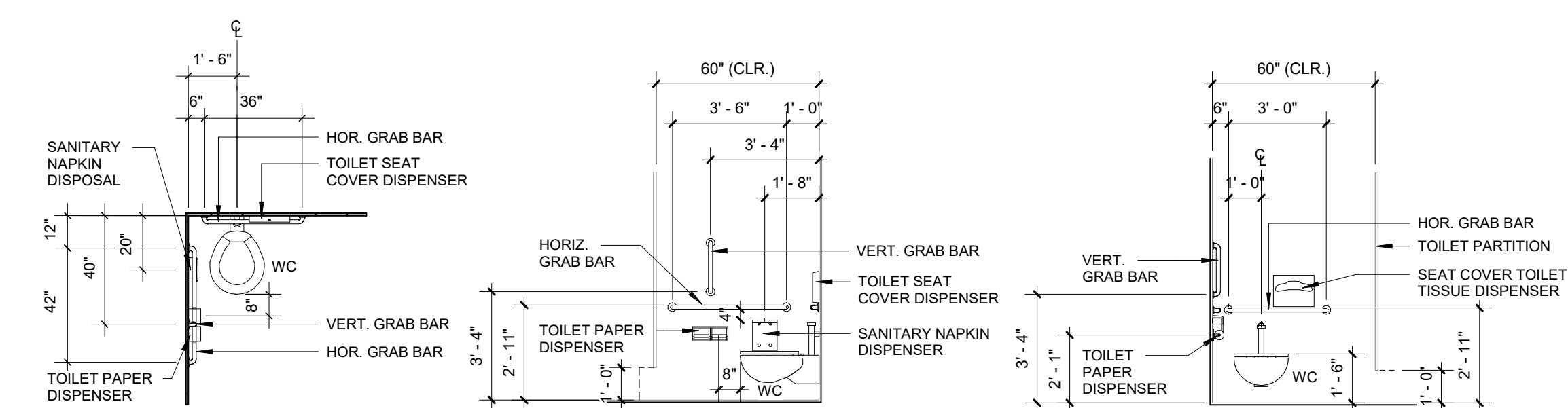
**SPECIFICATIONS OF WATER CLOSETS
SERVING CHILDREN AGES 3 THROUGH 12**

	AGES 3 AND 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
WATER CLOSET CENTER LINE	12 INCHES	12 TO 15 INCHES	15 TO 18 INCHES
TOILET SEAT HEIGHT	11 TO 12 INCHES	12 TO 15 INCHES	15 TO 17 INCHES
GRAB BAR HEIGHT	18 TO 20 INCHES	20 TO 25 INCHES	25 TO 27 INCHES
DISPENSER HEIGHT	12 INCHES	14 TO 17 INCHES	17 TO 19 INCHES

ADA Advisory 604.9 Water Closets and Toilet Compartments for Children's Use

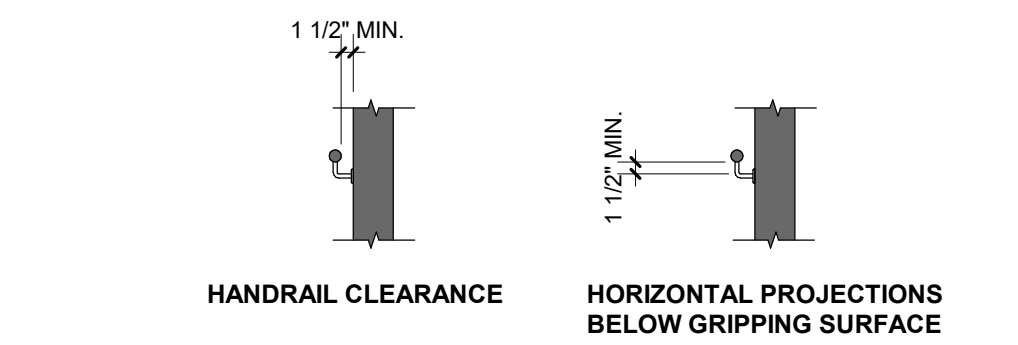


STANDARD TOILET STALL - MOUNTING HEIGHTS AND DETAILS

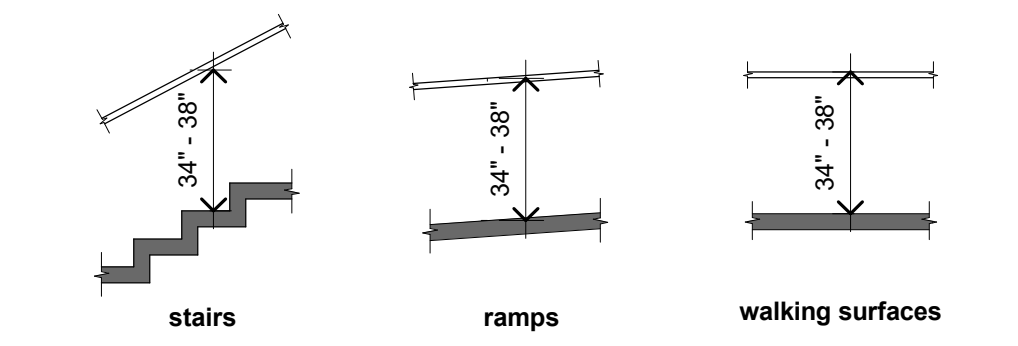


ADA ACCESSIBLE TOILET STALL - MOUNTING HEIGHTS AND DETAILS

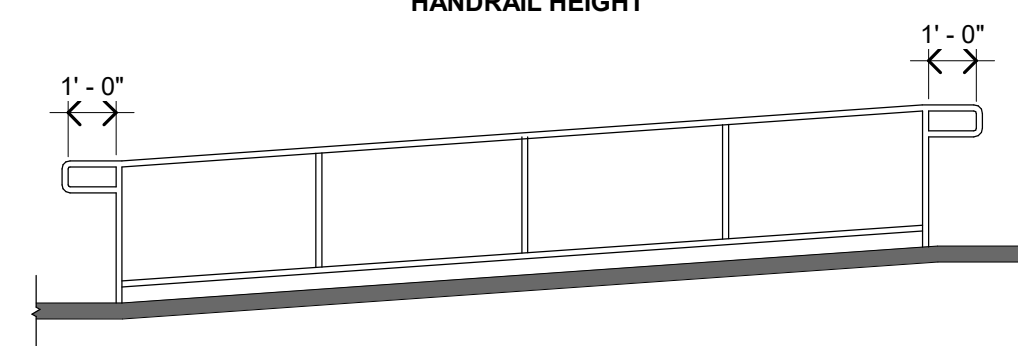
TOILET STALLS MOUNTING HEIGHTS



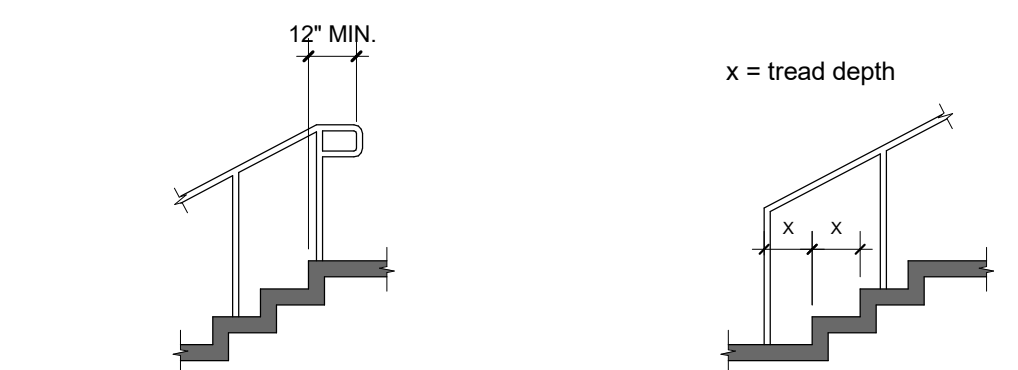
HANDRAIL CLEARANCE HORIZONTAL PROJECTIONS BELOW GRIPPING SURFACE



HANDRAIL HEIGHT



TOP & BOTTOM HANDRAIL EXTENSIONS @ RAMPS



TOP HANDRAIL EXTENSIONS @ STAIRS BOTTOM HANDRAIL EXTENSIONS @ STAIRS

ADA REFERENCE - HANDRAIL DETAILS

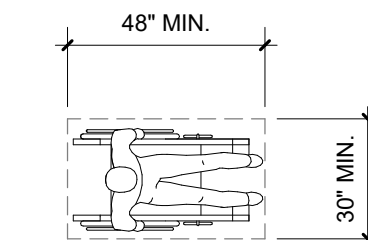
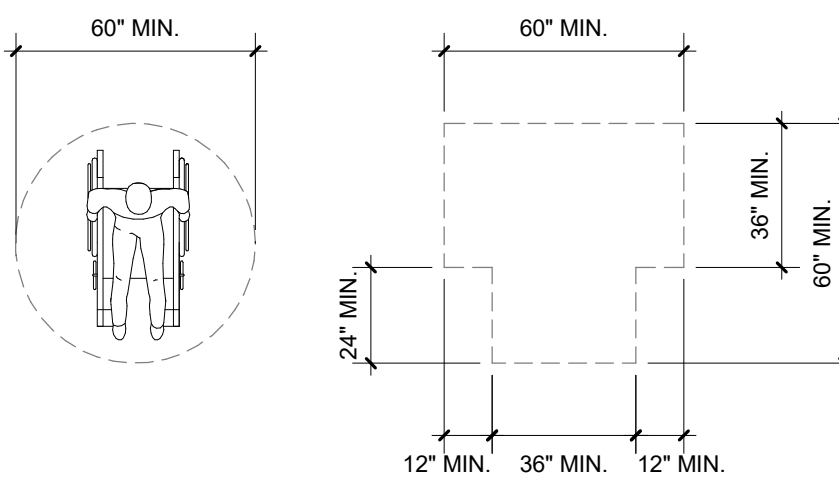


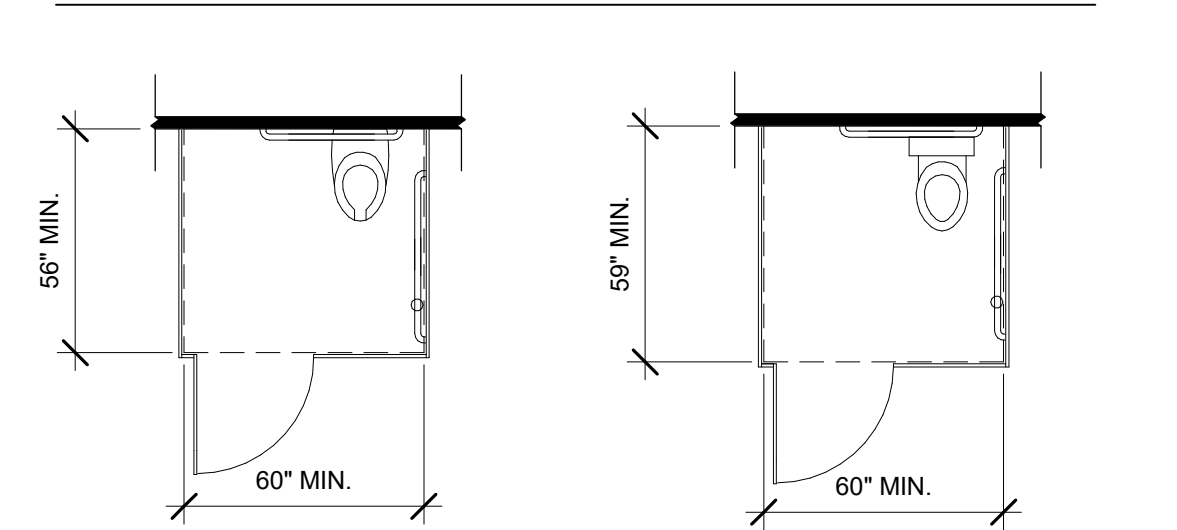
FIG. 305.3 SIZE OF CLEAR FLOOR SPACE



(A) CIRCULAR (B) T-SHAPED

FIG. 304.3 KNEE CLEARANCE

TURNING SPACE & CLEARANCE SPACE



(A) WALL-HUNG WATER CLOSET-ADULT (B) FLOOR-MOUNTED WATER CLOSET-ADULT WALL-HUNG AND FLOOR MOUNTED CLOSET-CHILDREN

**WHEELCHAIR ACCESSIBLE
TOILET COMPARTMENTS**

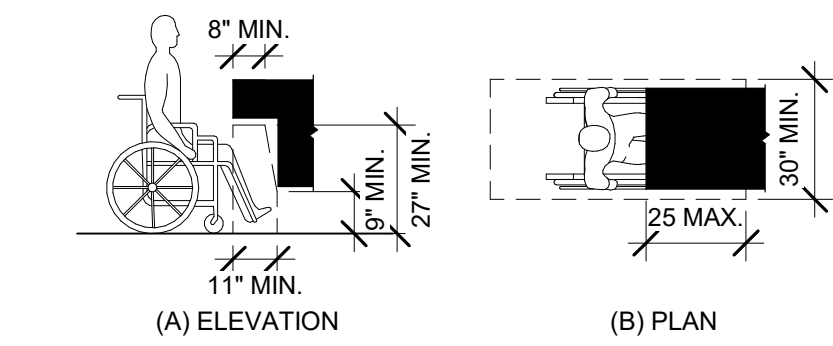


FIG. 306.3 KNEE CLEARANCE

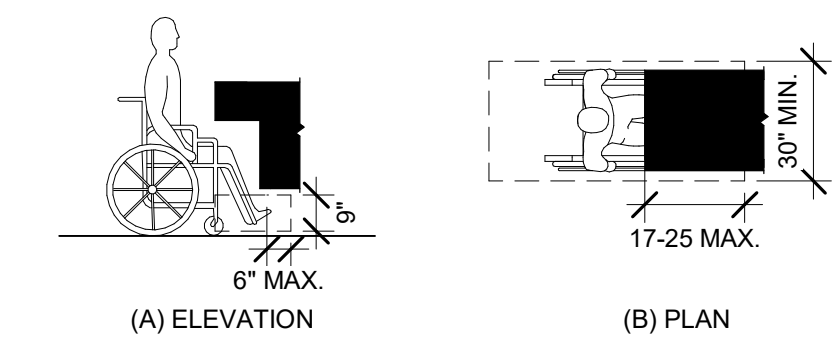


FIG. 306.2 TOE CLEARANCE

KNEE CLEARANCE

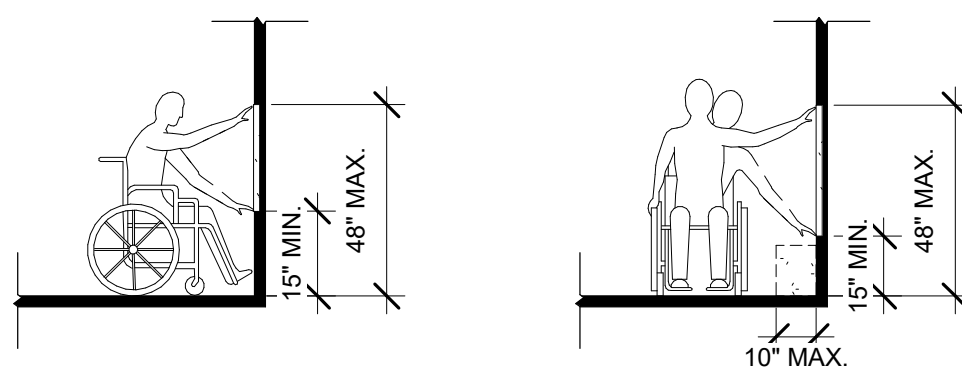


FIG. 308.2.1 UNOBSTRUCTED FORWARD REACH FIG. 308.3.1 UNOBSTRUCTED SIDE REACH

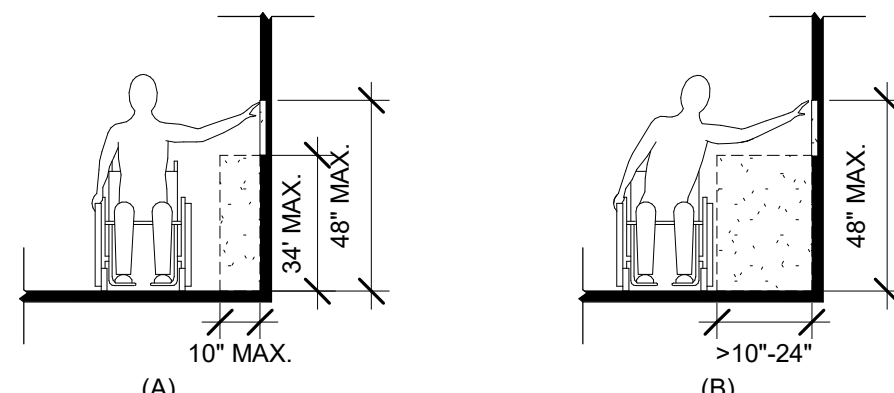


FIG. 308.3.1 OBSTRUCTED HIGH FORWARD REACH

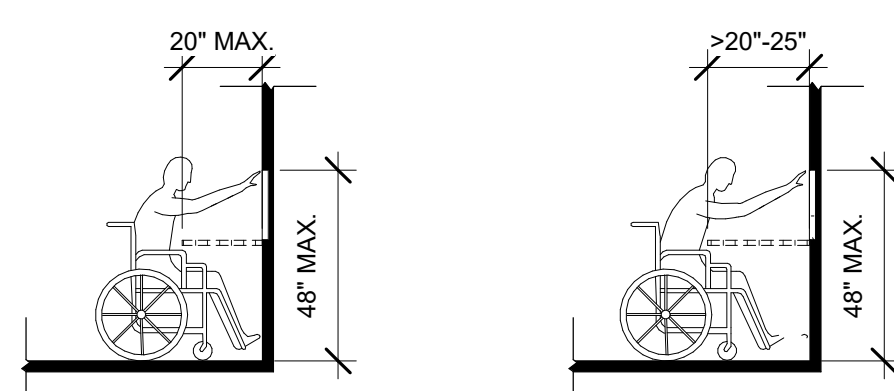
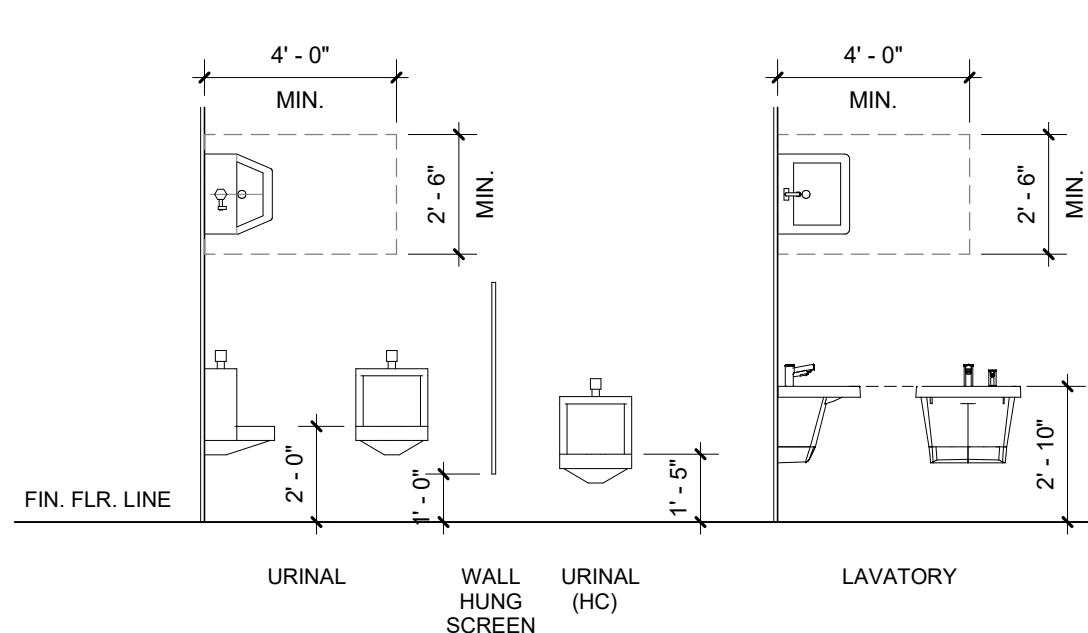


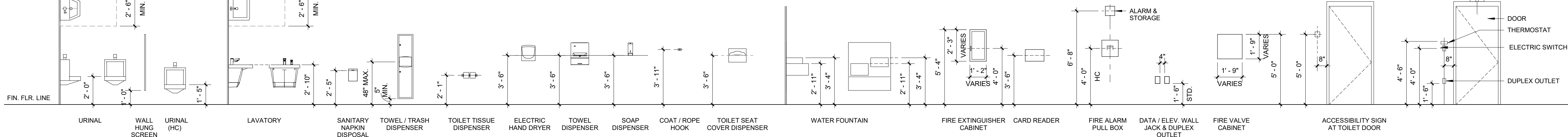
FIG. 308.2.2 OBSTRUCTED HIGH FORWARD REACH

REACH RANGES



NOTE: CONCEALED BLOCKING TO EXTEND MIN. 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.

GENERAL INFO. - STANDARD MOUNTING HEIGHTS

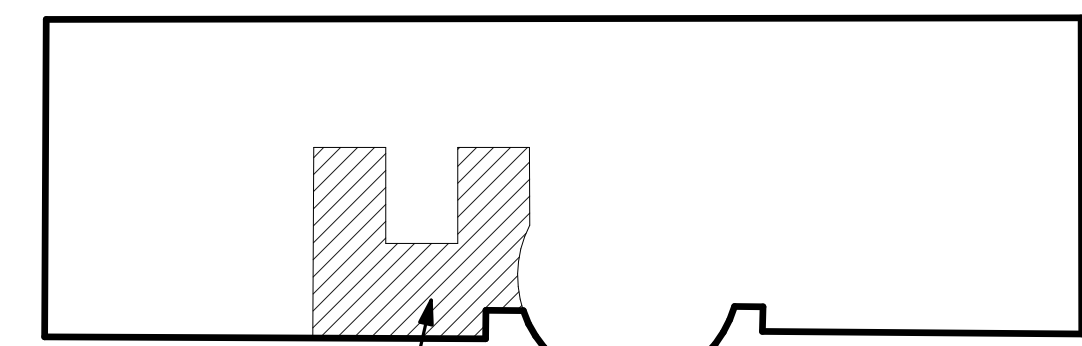




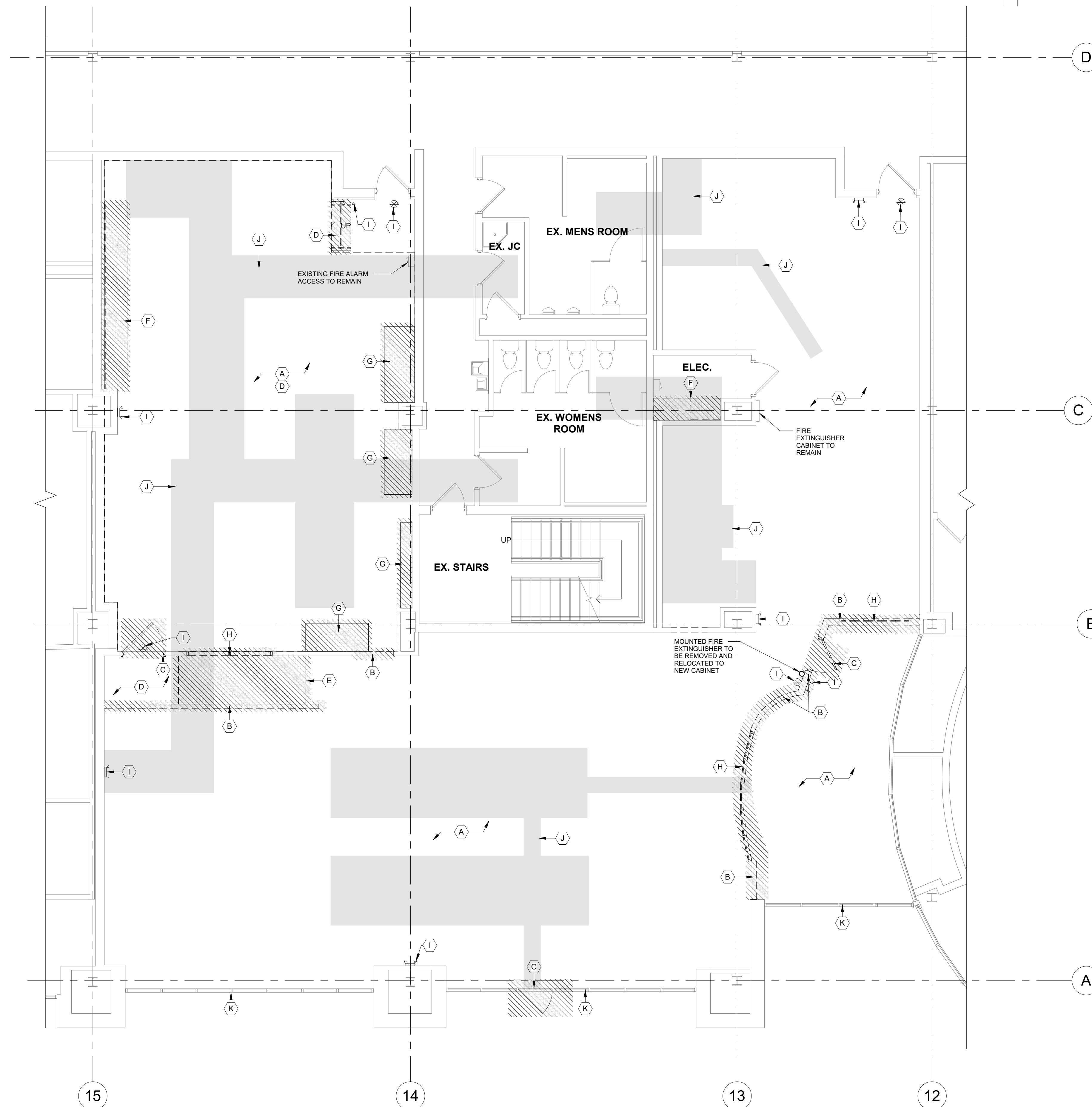
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ENGINEERING STRONG COMMUNITIES



AREA OF WORK



DEMOLITION PLAN LEGEND :

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED (SEE DEMO PLAN)
- EXISTING CONCRETE SLAB TO BE SAWCUT AND REMOVED (SEE DEMO PLAN)

DEMOLITION PLAN KEYNOTES :

- (A)** REMOVE ALL FLOORING, BASE, CEILING, DIFFUSER, RETURNS, AND ALL ASSOCIATED ITEMS COMPLETE. TYPICAL THROUGHOUT. PREP AREA FOR NEW WORK.
- (B)** REMOVE STUD WALL AND /OR PARTITIONS
- (C)** REMOVE DOOR, FRAME AND ASSOCIATED HARDWARE COMPLETE
- (D)** REMOVE RAISED FLOOR SYSTEM AND STAIRS, AND ASSOCIATED ITEMS, PREP AND LEVEL EXISTING FLOOR AND WALLS AS NECESSARY FOR NEW FLOOR FINISH
- (E)** REMOVE RAMP, RAILING AND ALL ASSOCIATED ITEMS, PREP AND LEVEL EXISTING FLOOR AS NECESSARY FOR NEW FLOOR FINISH
- (F)** REMOVE MILLWORK AND ALL ASSOCIATED ITEMS COMPLETE, PREP WALL AND FLOOR FOR NEW WORK
- (G)** REMOVE AND RELOCATE ELECTRICAL EQUIPMENT, SEE ELECTRICAL PLANS
- (H)** REMOVE WINDOWS COMPLETELY
- (I)** REMOVE ALL EMERGENCY EXIT SIGNS AND EMERGENCY LIGHTS, PREP WALL FOR NEW FINISH
- (J)** SAWCUT AND REMOVE PORTION OF CONCRETE SLAB- COORDINATE WITH ELECTRICAL AND PLUMBING FOR LOCATION AND LIMIT OF WORK.
- (K)** REMOVE EXIST. WINDOW TINT AND ALL ASSOCIATED COMPONENTS COMPLETE, PREP AREA FOR NEW WORK.

DEMOLITION PLAN
3/16" = 1'-0"
NORTH

12/05/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

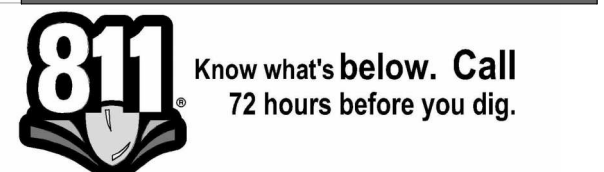
**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:

**FIRST FLOOR
DEMOLITION PLAN**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



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DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 1584-0003

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SHEET NO.

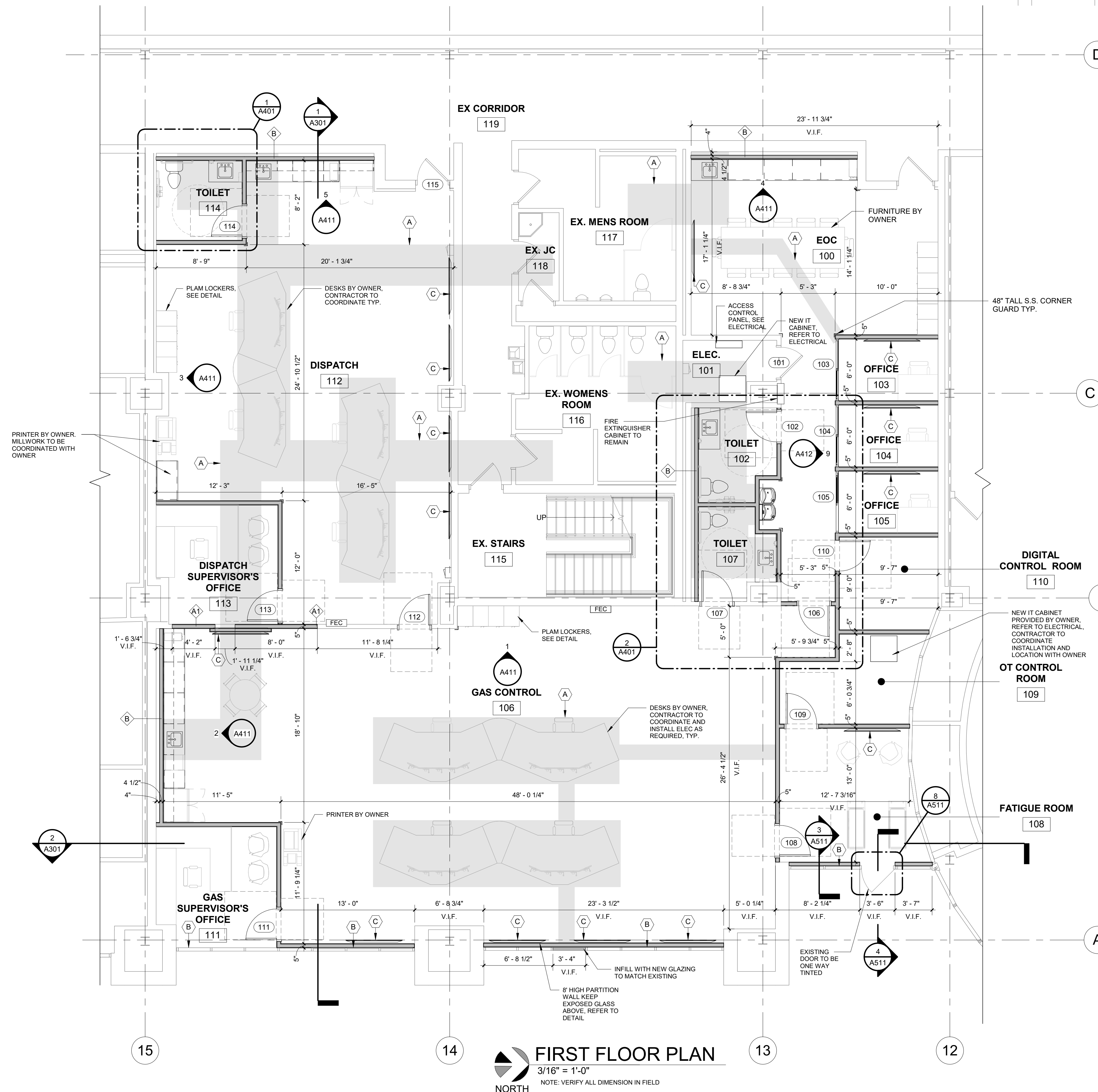
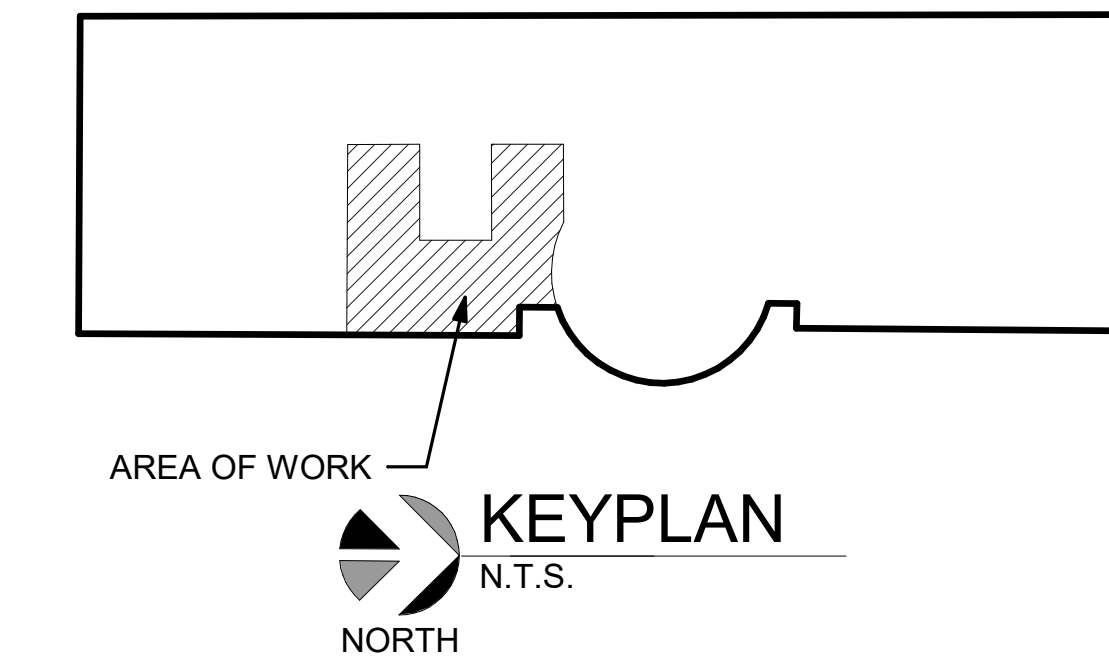
AD101



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ENGINEERING STRONG COMMUNITIES



- PARTITION TYPES :**
- A 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB BOTH SIDES PAINTED. (ALL WALLS TO BE TYPE "A" UNO)
 - A1 RATED 1 HOUR 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND (2) 5/8" GWB TYP X BOTH SIDES PAINTED. W/ CLERESTORY WINDOWS AT 8' - 0" A.F.F.
 - B 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB ONE SIDE PAINTED.

- NEW WORK PLAN KEYNOTES :**
- A NEW 6" CONCRETE SLAB ON VAPOR BARRIER OVER 4" COMPACTED FILL. LOCATION TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL
 - B NEW ONE WAY TINTED WINDOW FILM ON EXISTING INTERIOR SIDE OF GLASS
 - C TV BY OWNER, CONTRACTOR TO INSTALL AND COORDINATE WITH OWNER, PROVIDE WOOD BLOCKING AS REQUIRED

12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

SEMCO EMERGENCY OPERATIONS CENTER

FIRST FLOOR PLAN

CLIENT: SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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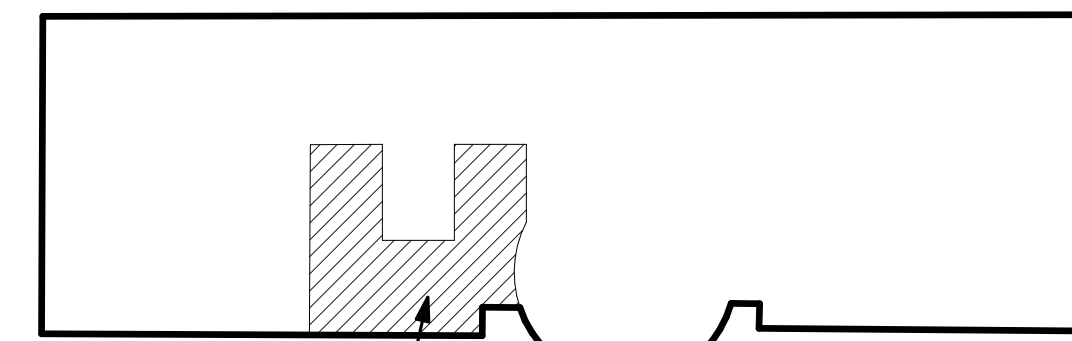
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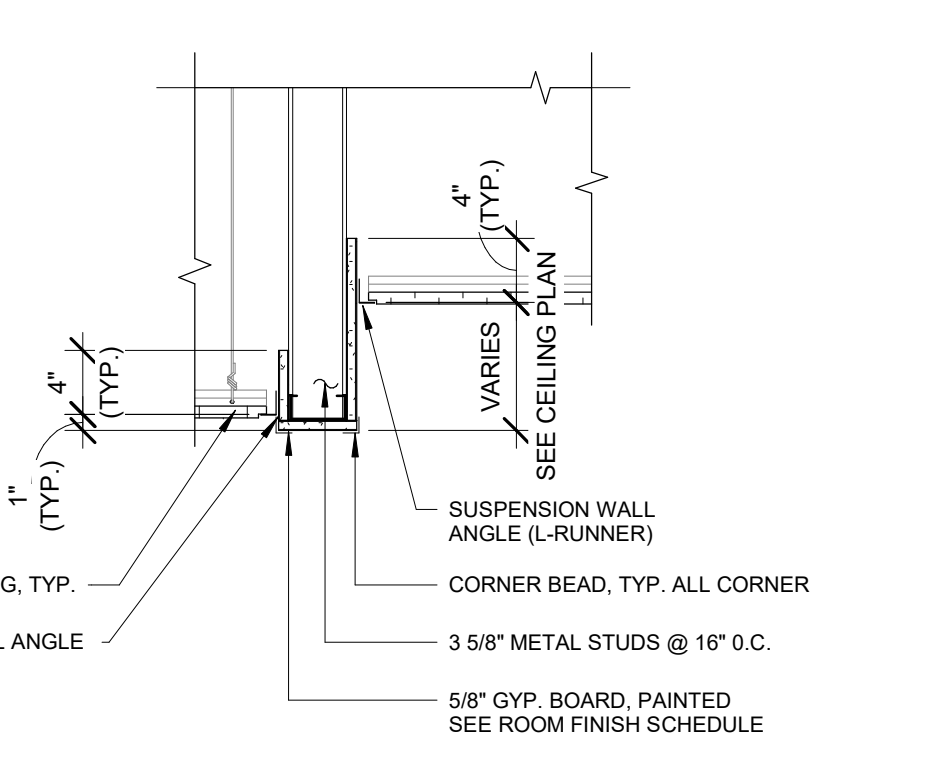
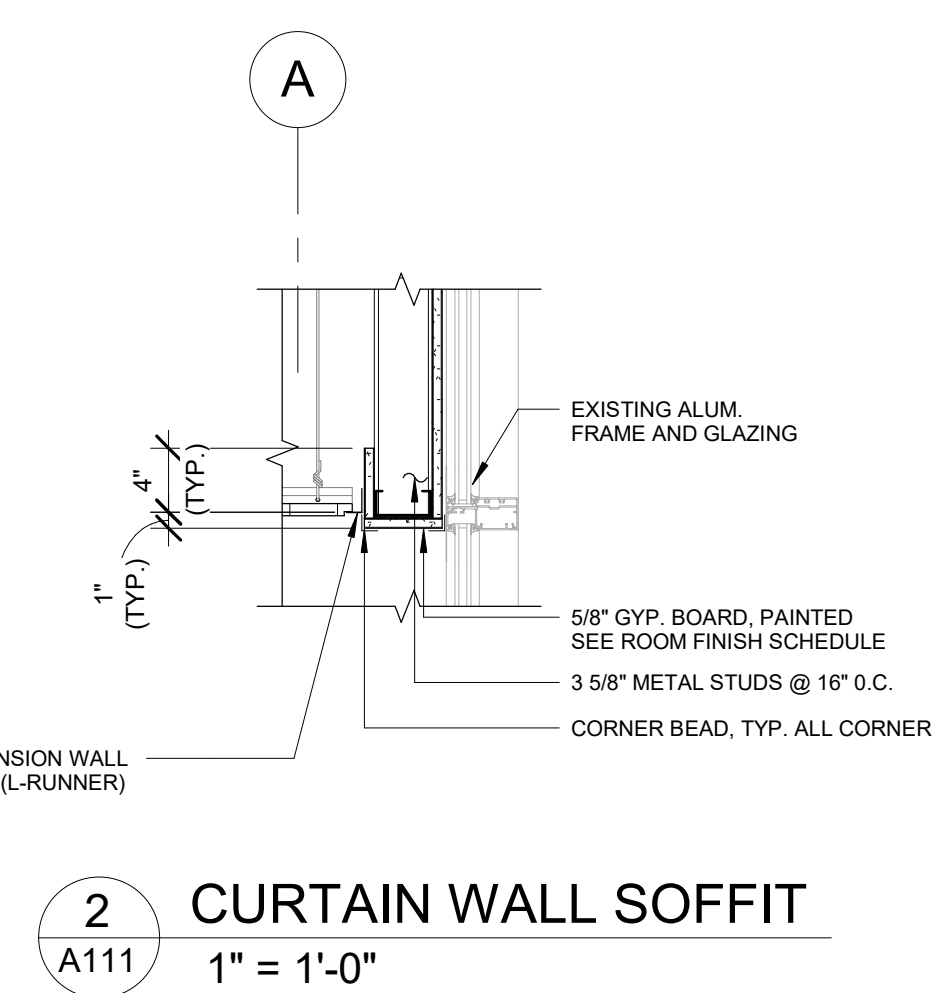
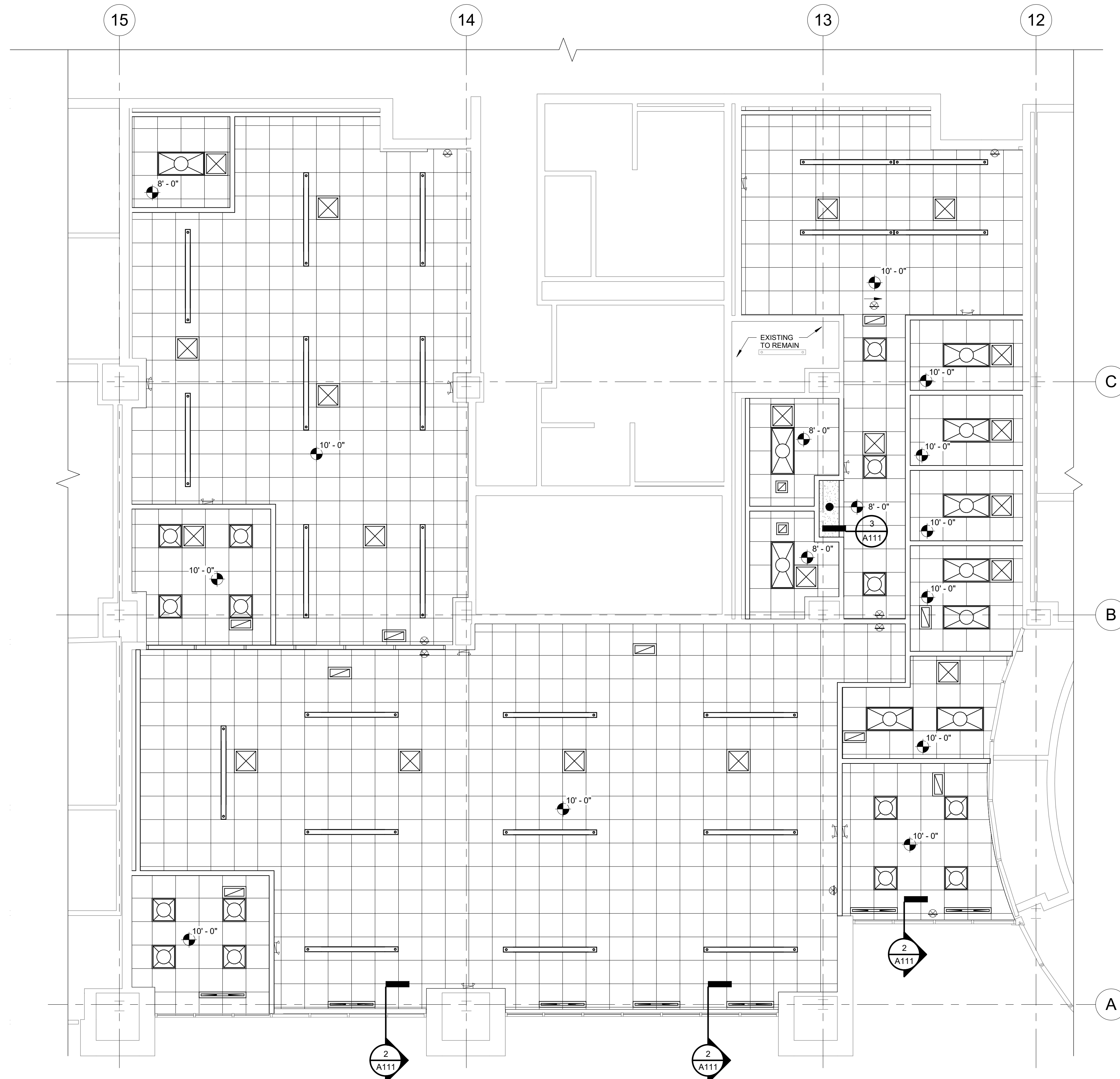
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ENGINEERING STRONG COMMUNITIES



AREA OF WORK

KEYPLAN
 N.T.S.
 NORTH



CEILING LEGEND :

- 24" X 24" SUSP. ACOUSTICAL LAY-IN CEILING
- 2'x4' LIGHT RECESSED FIXTURE
- 2'x2' LIGHT RECESSED FIXTURE
- LINEAR SUSPENDED FIXTURE (SEE ELEC.)
- RETURN AIR GRILLE
- CEILING DIFFUSOR
- EXHAUST FAN
- EMERGENCY LIGHTING
- EXIT SIGN
- 48" LINEAR DIFFUSOR

REFLECTED CEILING PLAN
 3/16" = 1'-0"
 NORTH

12/05/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

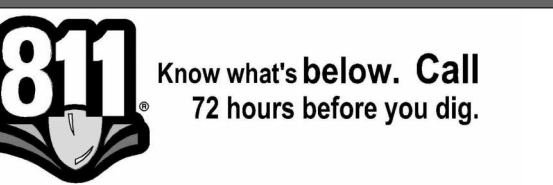
SEMCO
 EMERGENCY
 OPERATIONS
 CENTER

SHEET TITLE:

FIRST FLOOR
 REFLECTED
 CEILING PLAN

CLIENT:
 SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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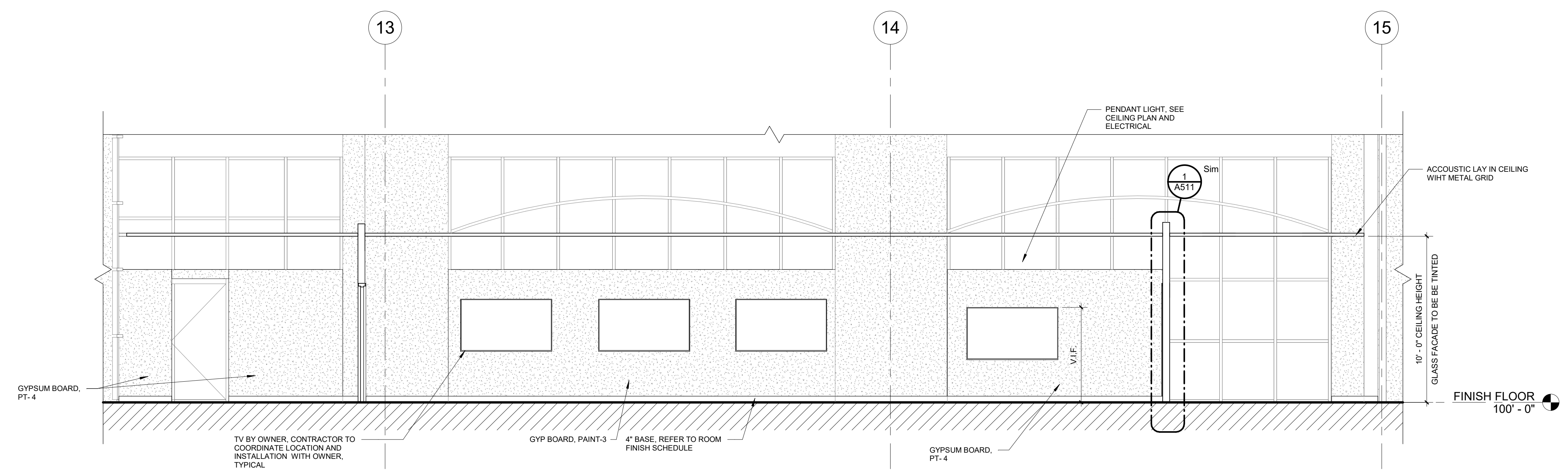
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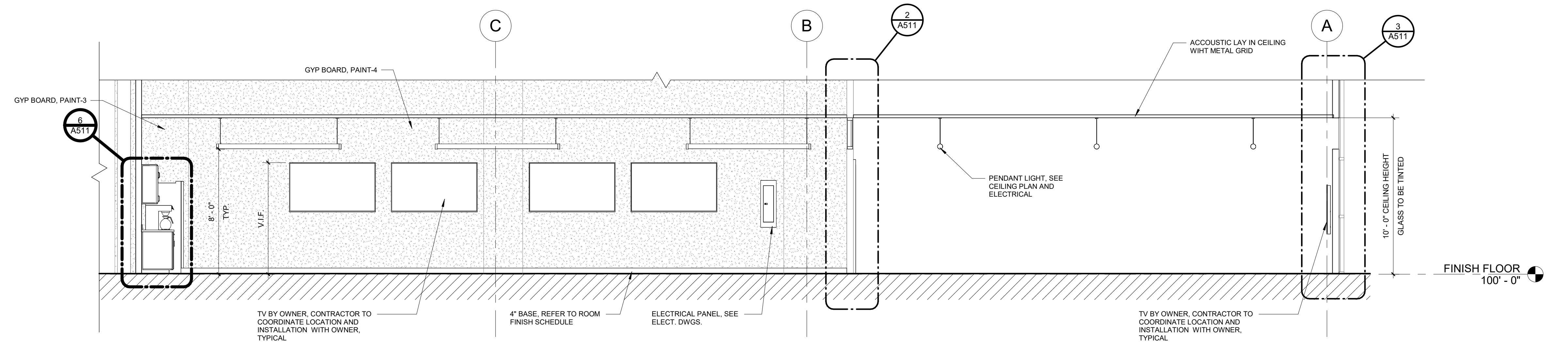
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 Shelby Township Fax 586 726 8780
 Michigan 48315
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ENGINEERING STRONG COMMUNITIES



2 BUILDING SECTION
 A301 1/4" = 1'-0"



1 BUILDING SECTION
 A301 1/4" = 1'-0"

12/05/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
SEMCO EMERGENCY OPERATIONS CENTER

SHEET TITLE:
BUILDING SECTIONS

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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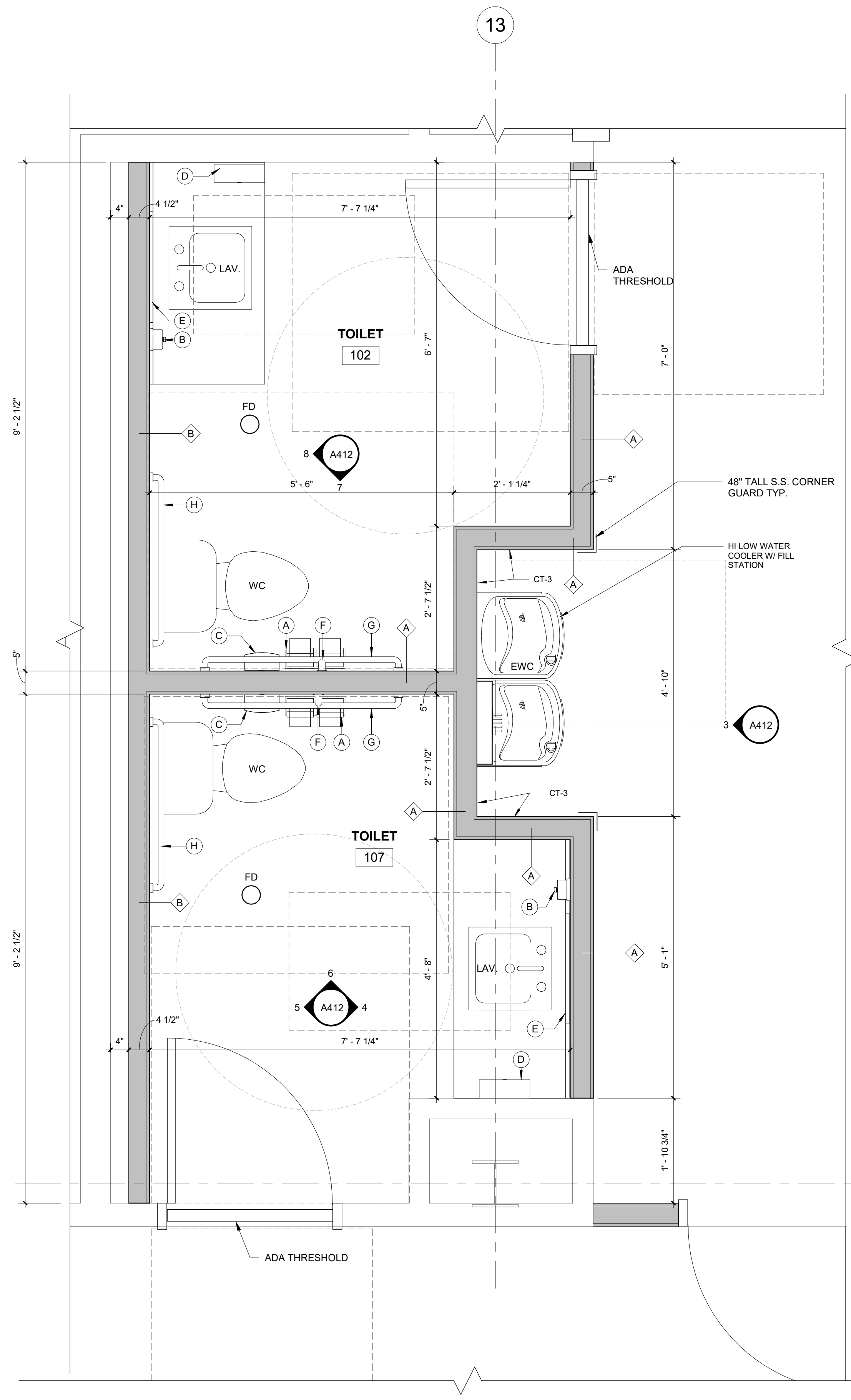
A301



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ENGINEERING STRONG COMMUNITIES



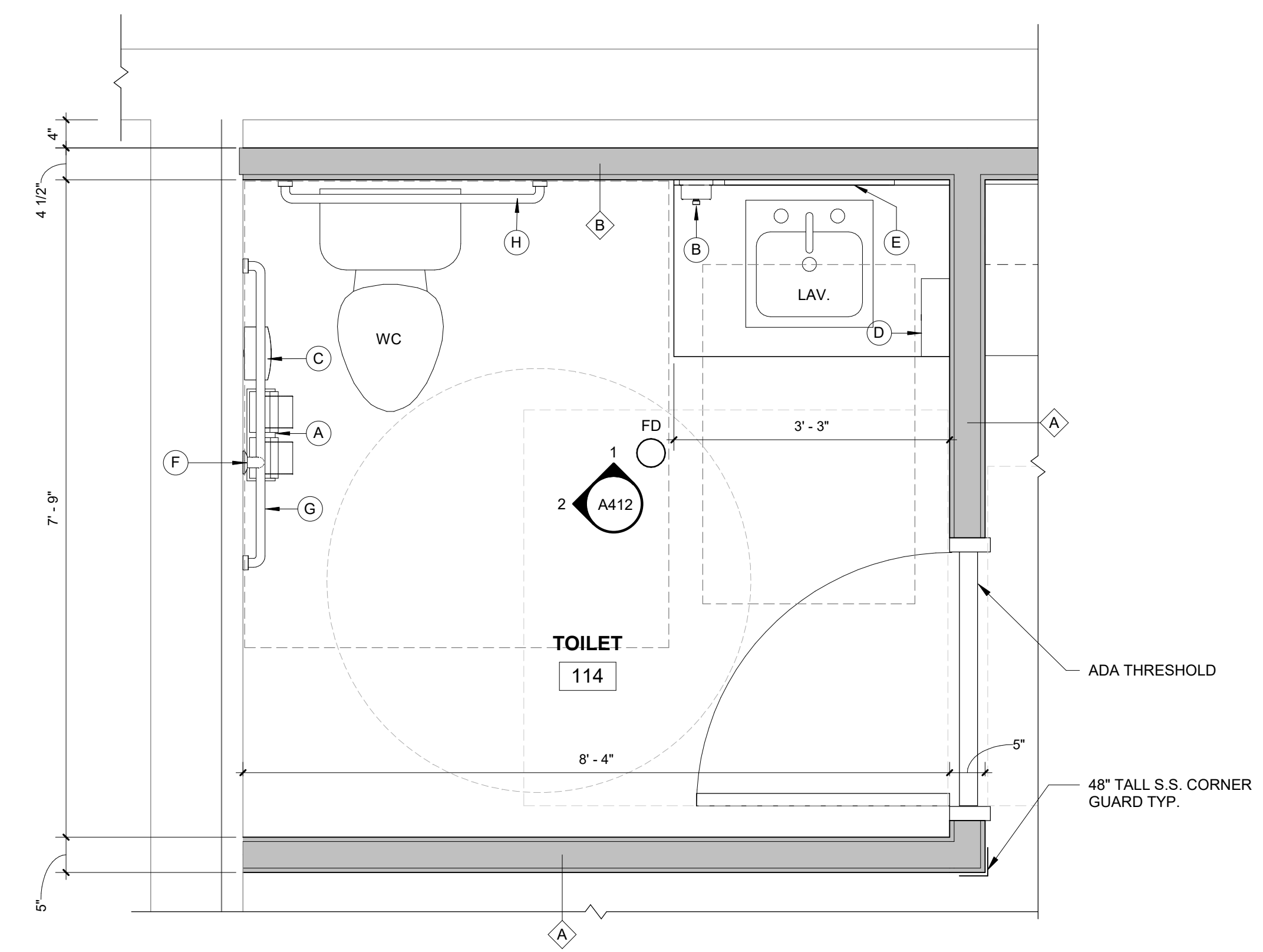
2 TOILET RMS 102 & 107 ENLARGED PLANS
A401 3/4" = 1'-0"

PARTITION TYPES :

- A** 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB BOTH SIDES PAINTED. (ALL WALLS TO BE TYPE "A" UNO)
- A1** RATED 1 HOUR 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND (2) 5/8" GWB TYP X BOTH SIDES PAINTED. W/ CLERESTORY WINDOWS AT 6' - 0" A.F.F.
- B** 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB ONE SIDE PAINTED.

TOILET ACCESSORY...

MARK	ITEM
A	TOILET PAPER DISPENSER
B	SOAP DISPENSER (SURF. MOUNT)
C	SANITARY NAPKIN DISPOSAL
D	ELEC. HAND DRYER
E	ANGLE FRAME MIRROR
F	18" GRAB BAR VERT.
G	42" GRAB BAR
H	36 GRAB BAR



1 TOILET 113 ENLARGED PLAN
A401 3/4" = 1'-0"

12/06/2024	910 ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:

ENLARGED PLANS

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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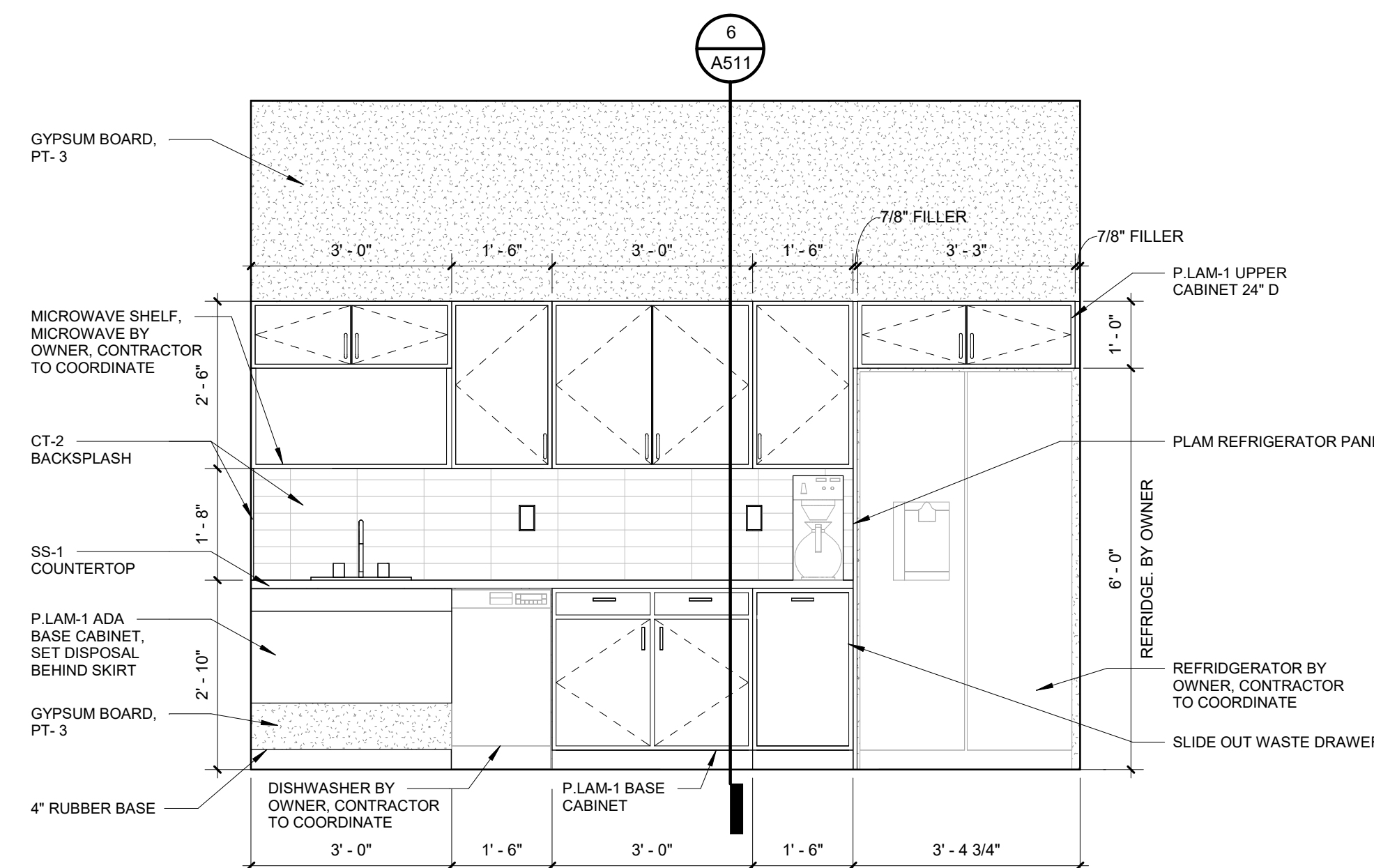
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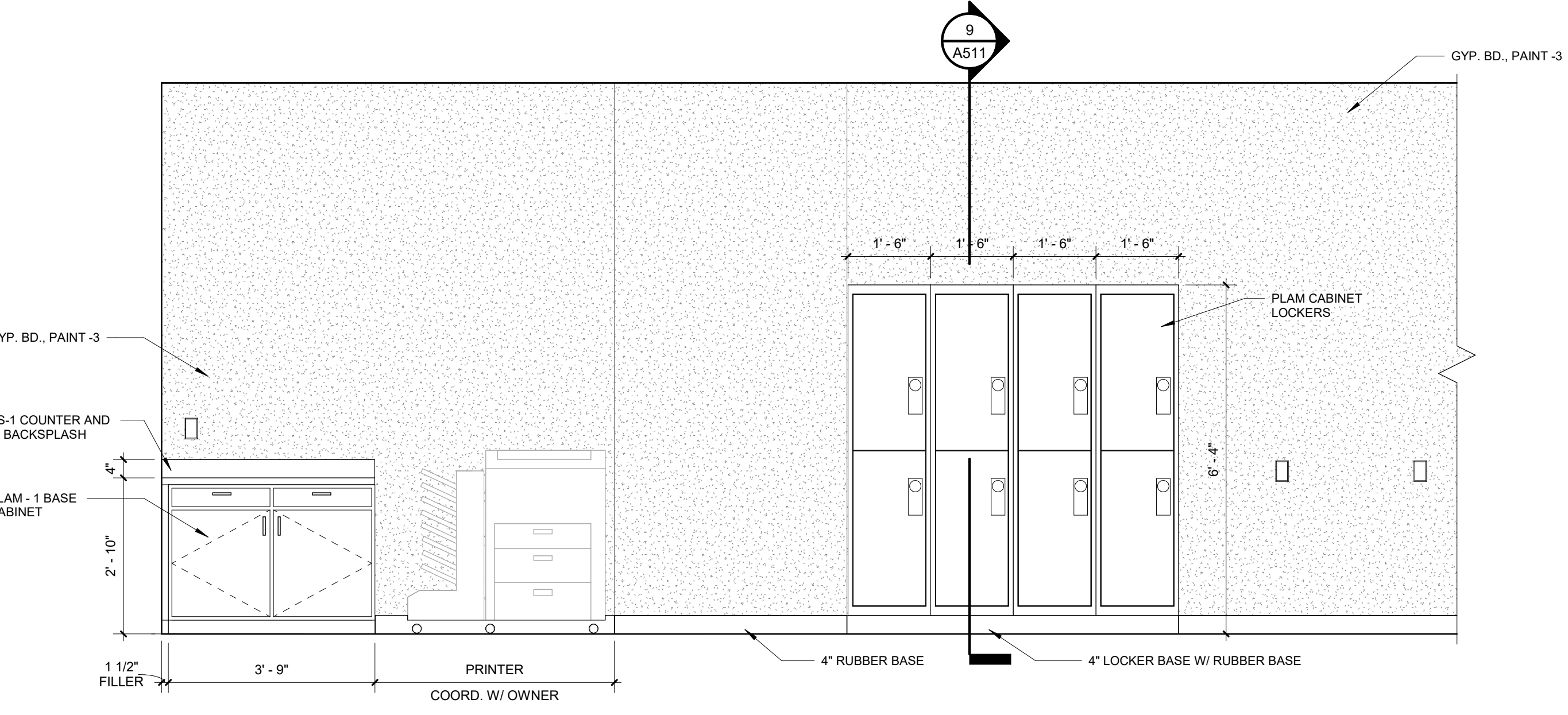
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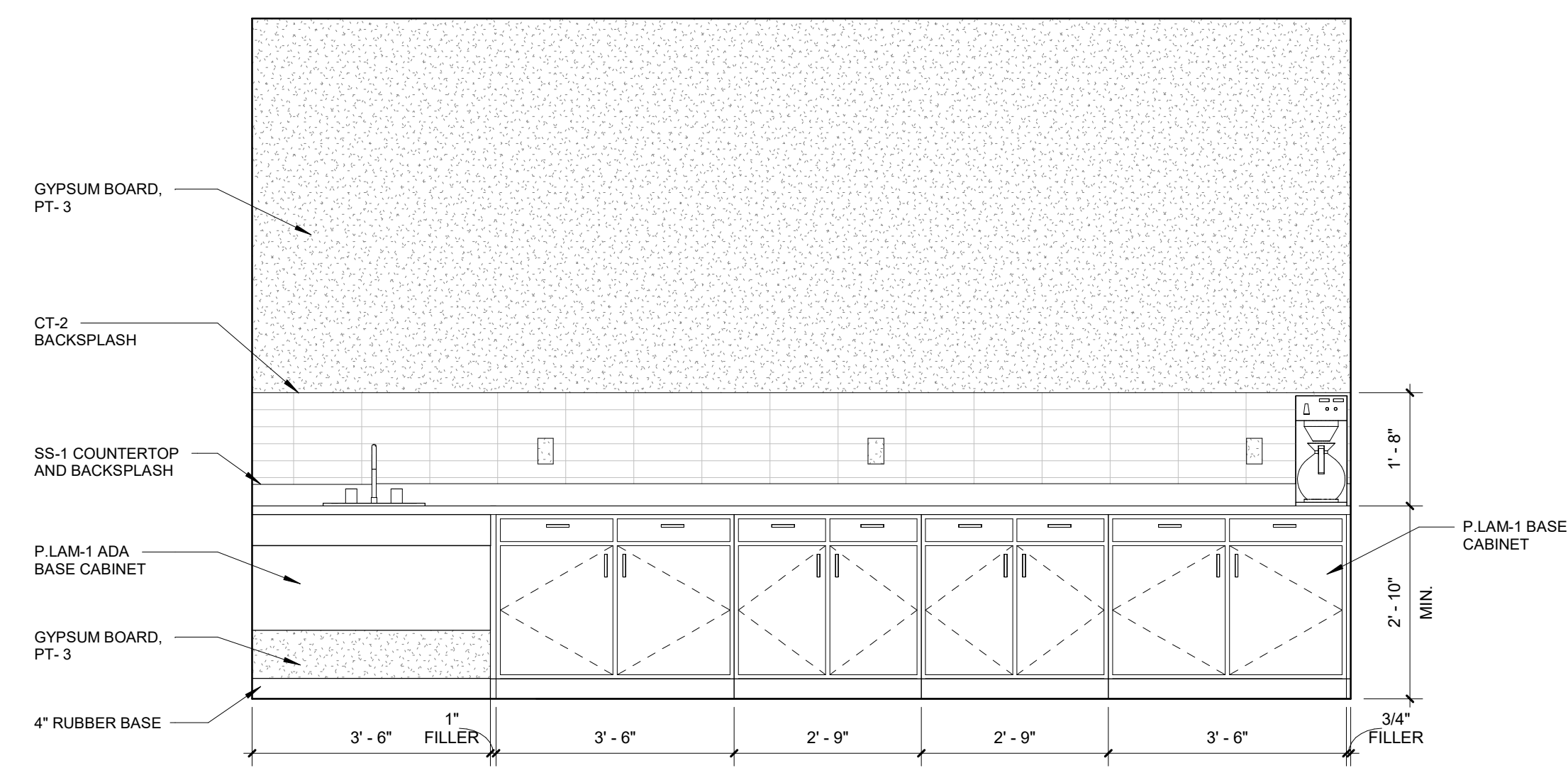
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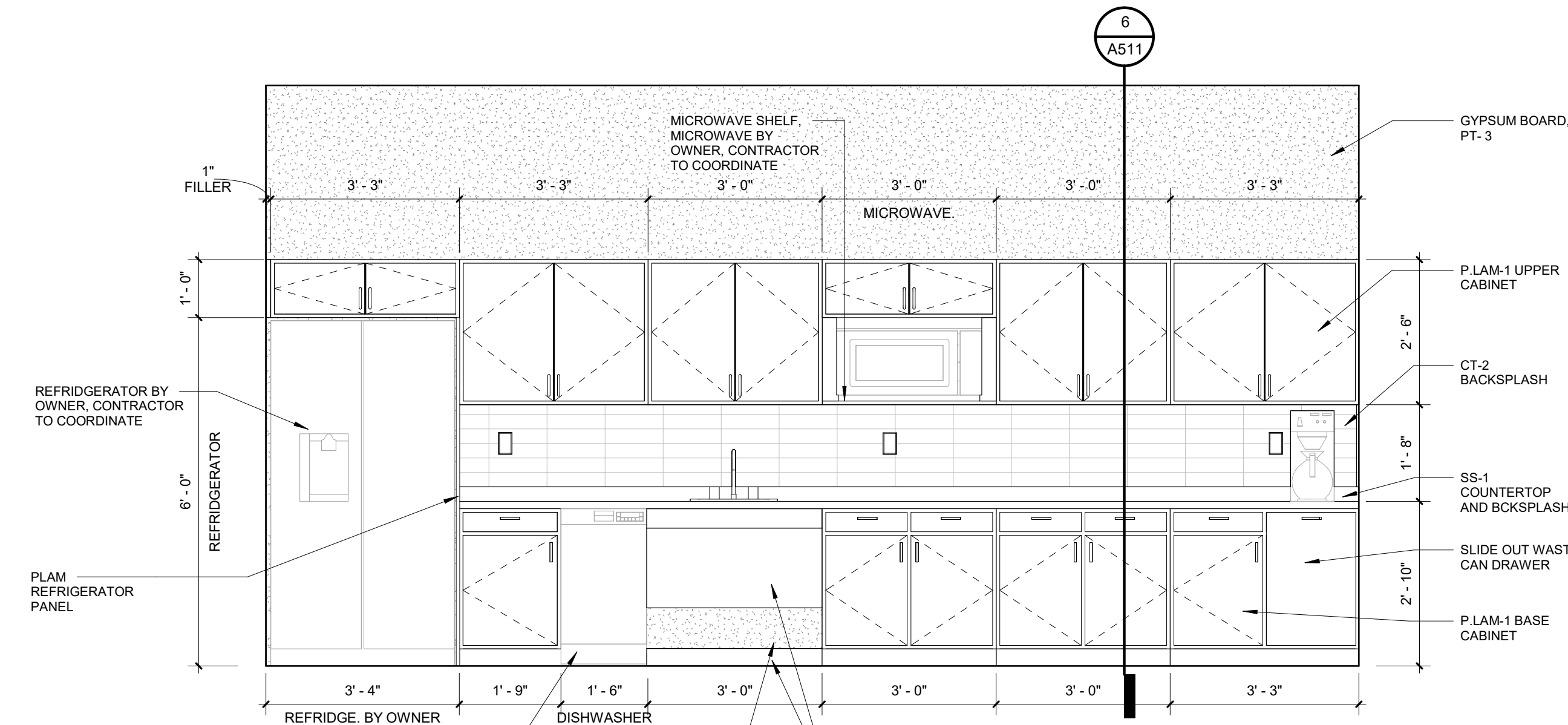
5 DISPATCH KITCHENETTE ELEVATION
 A411 1/2" = 1'-0"



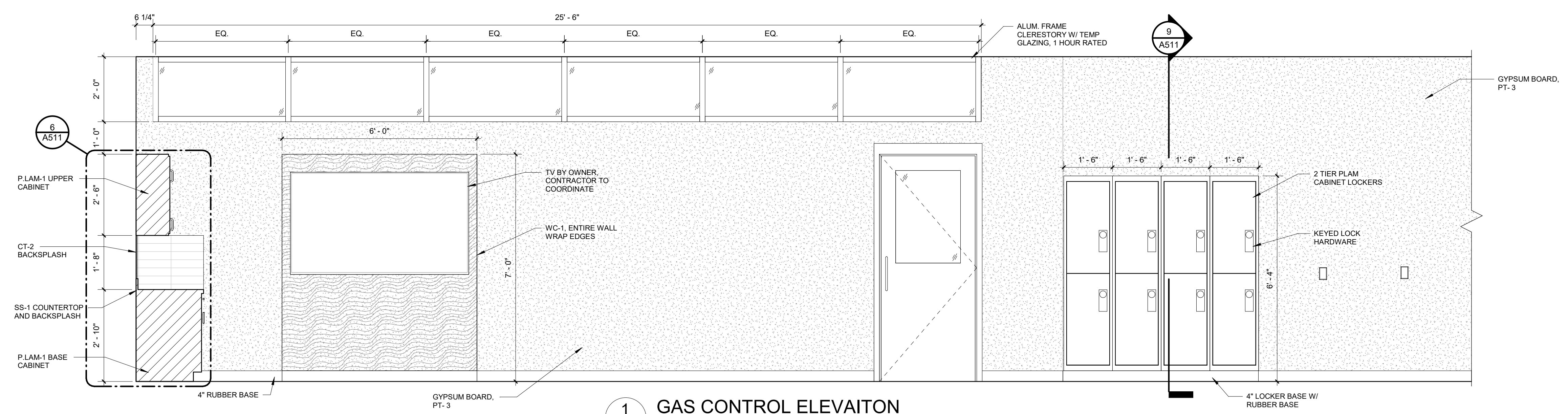
3 DISPATCH ELEVATION
 A411 1/2" = 1'-0"



4 EOC KITCHENETTE ELEVATION
 A411 1/2" = 1'-0"



2 GAS CONTROL ELEVATION
 A411 1/2" = 1'-0"



1 GAS CONTROL ELEVATION
 A411 1/2" = 1'-0"

12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

**SEMCO
 EMERGENCY
 OPERATIONS
 CENTER**

SHEET TITLE:

**INTERIOR
 ELEVATIONS**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: NOVEMBER 20, 2024
SCALE: AS NOTED		



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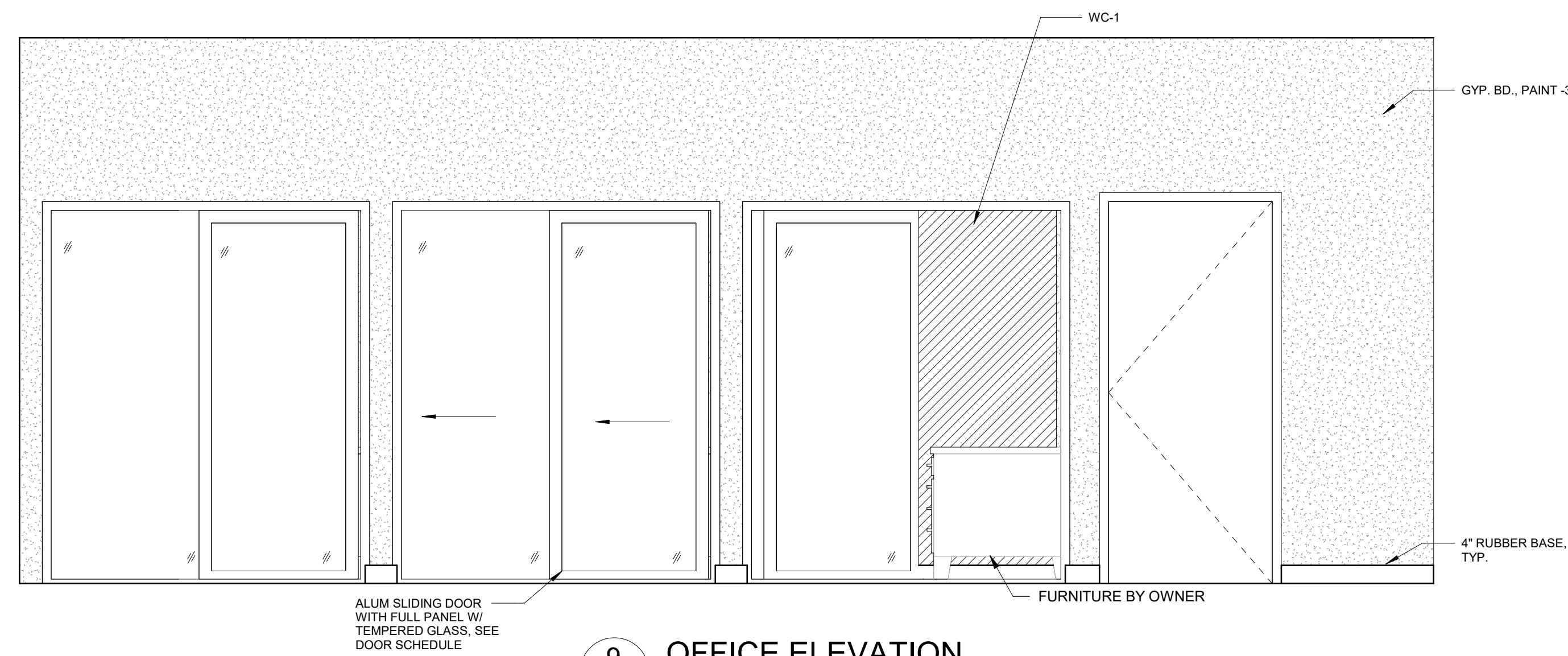
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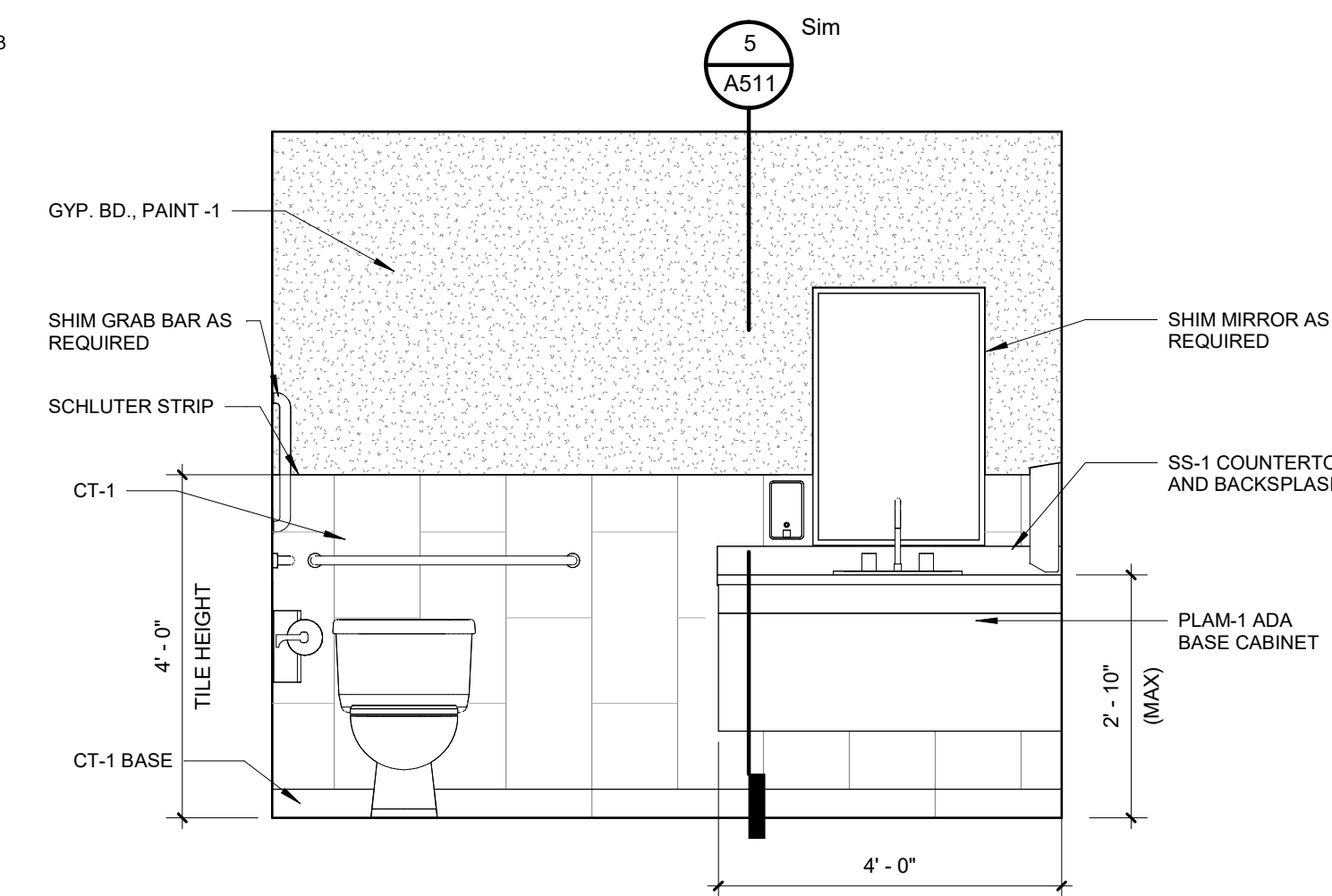
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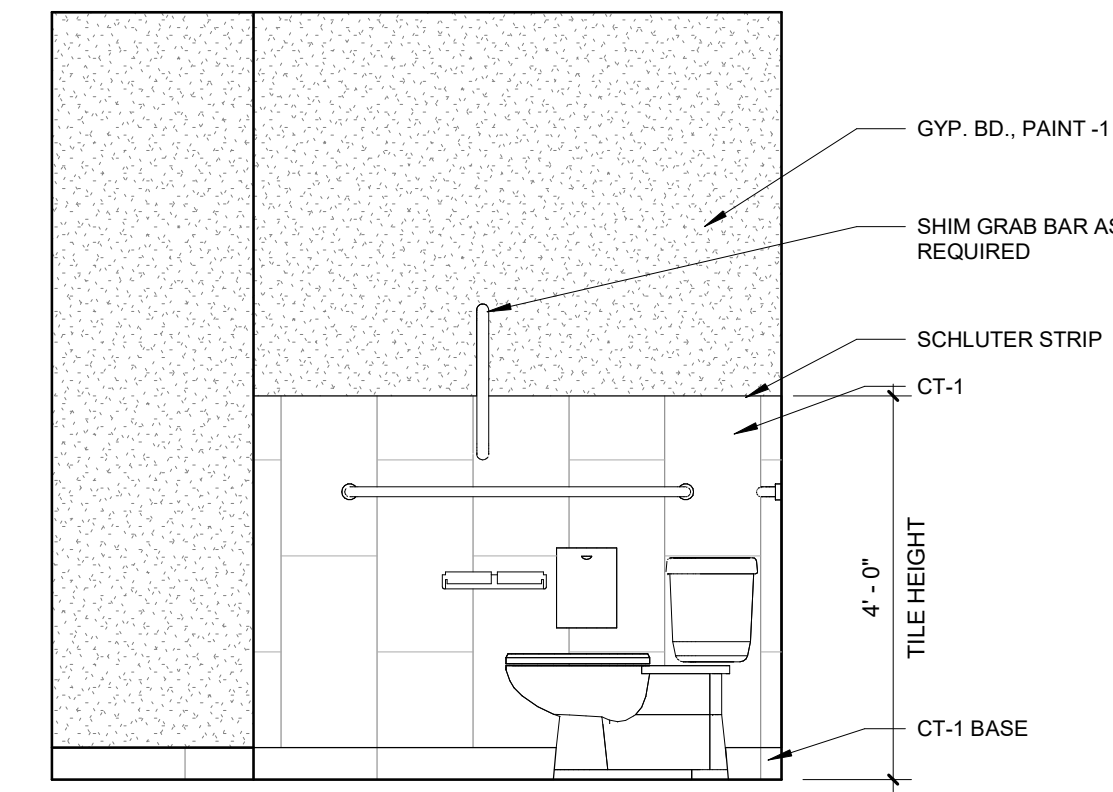
ENGINEERING STRONG COMMUNITIES



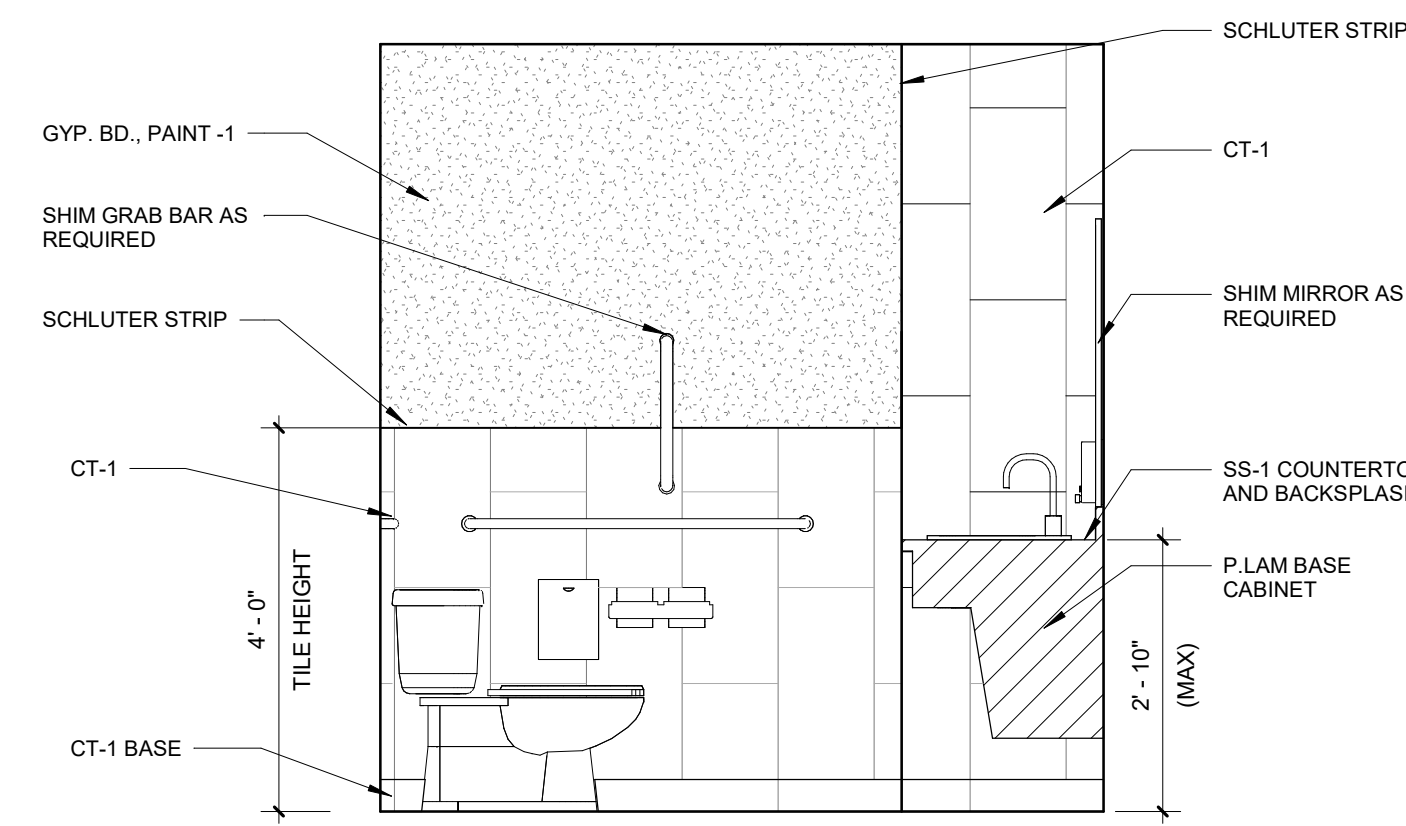
9 OFFICE ELEVATION
A412 1/2" = 1'-0"



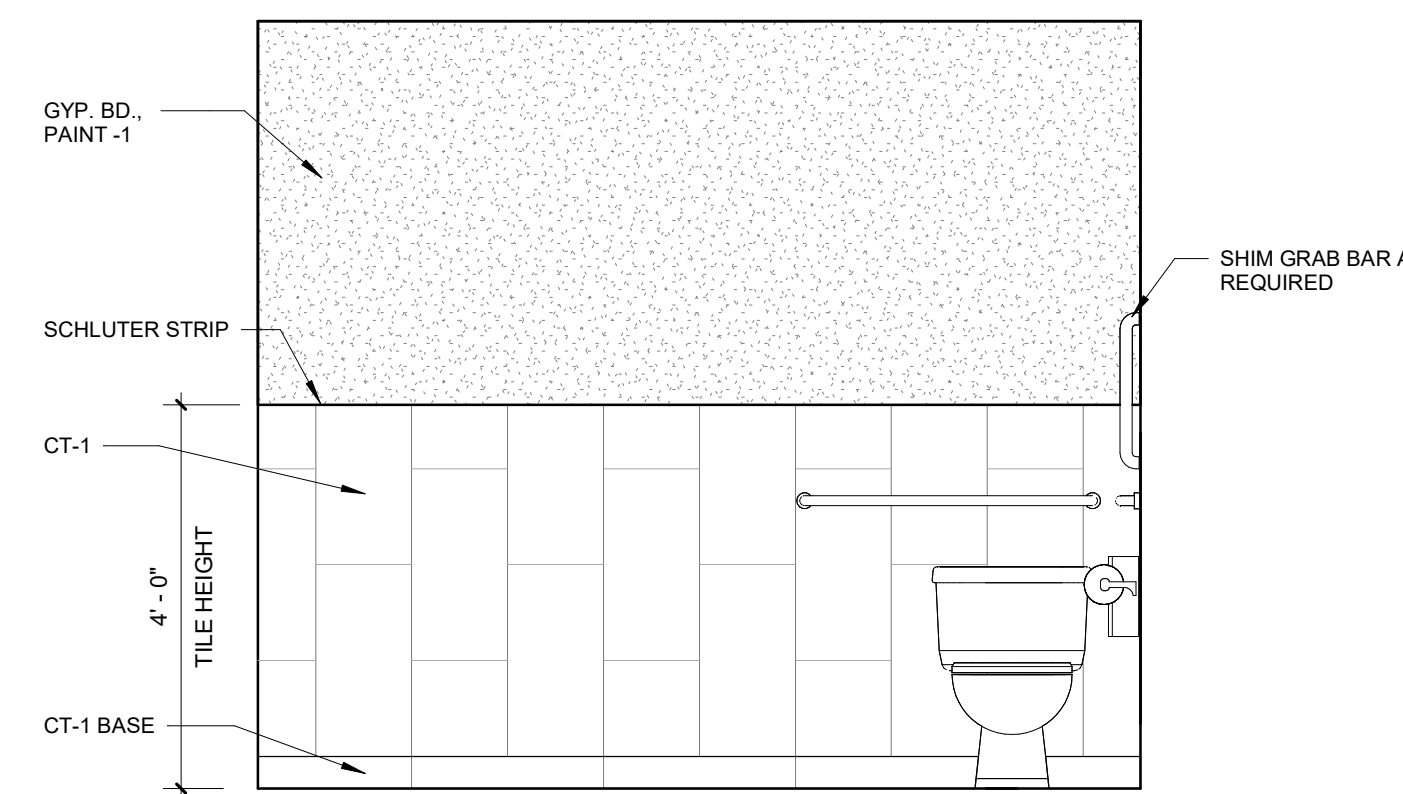
8 TOILET 102 ELEVATION
A412 1/2" = 1'-0"



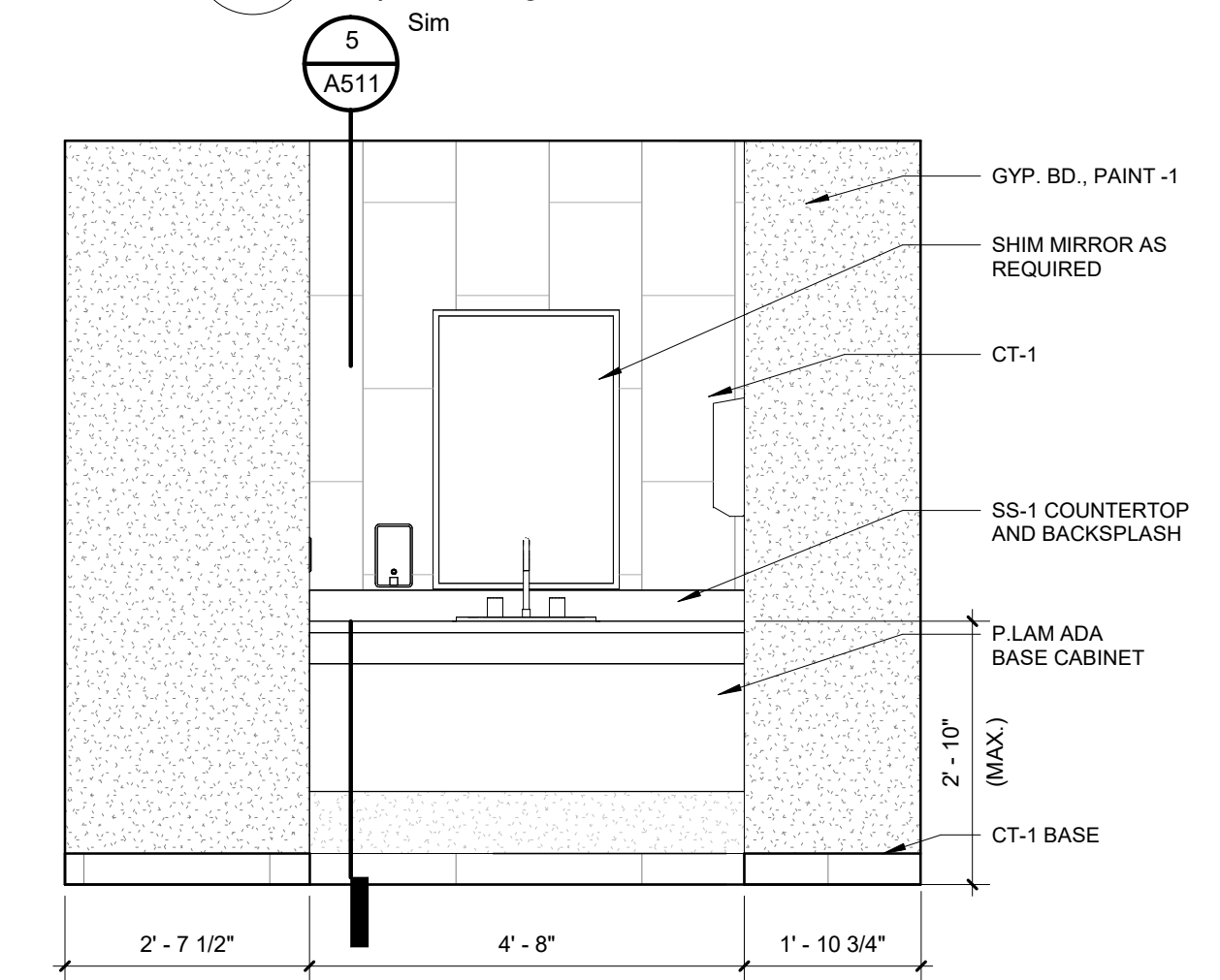
7 TOILET 102 ELEVATION
A412 1/2" = 1'-0"



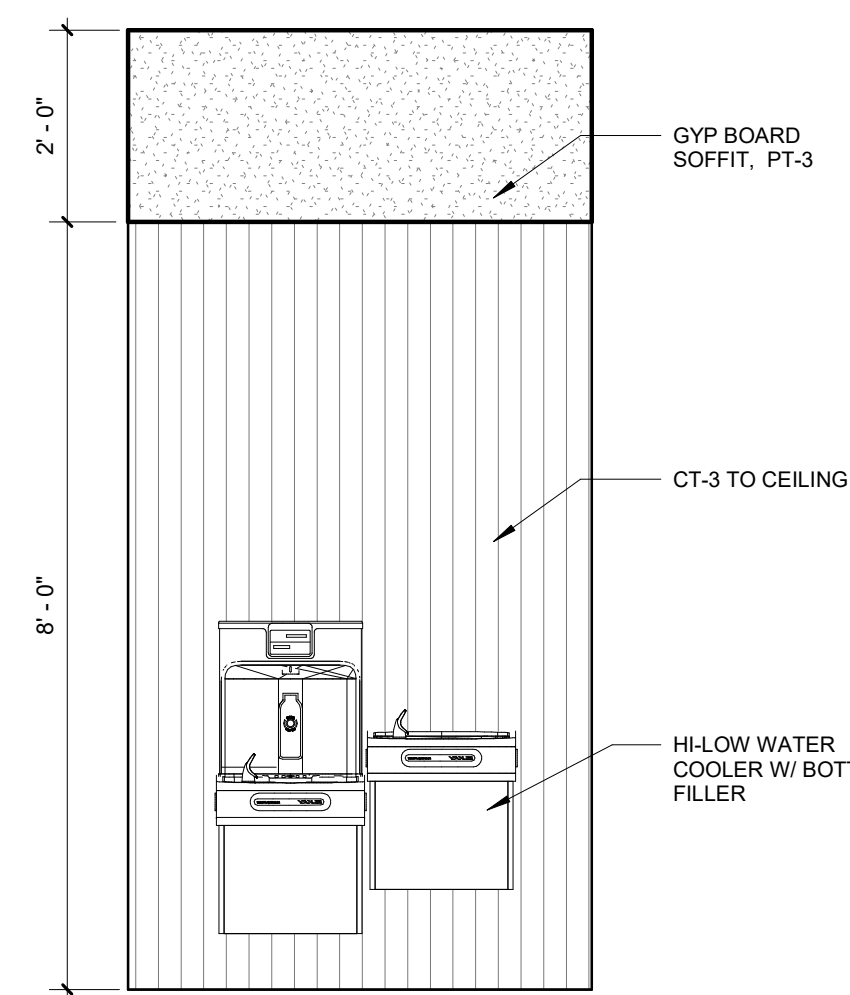
6 TOILET 109 ELEVATION
A412 1/2" = 1'-0"



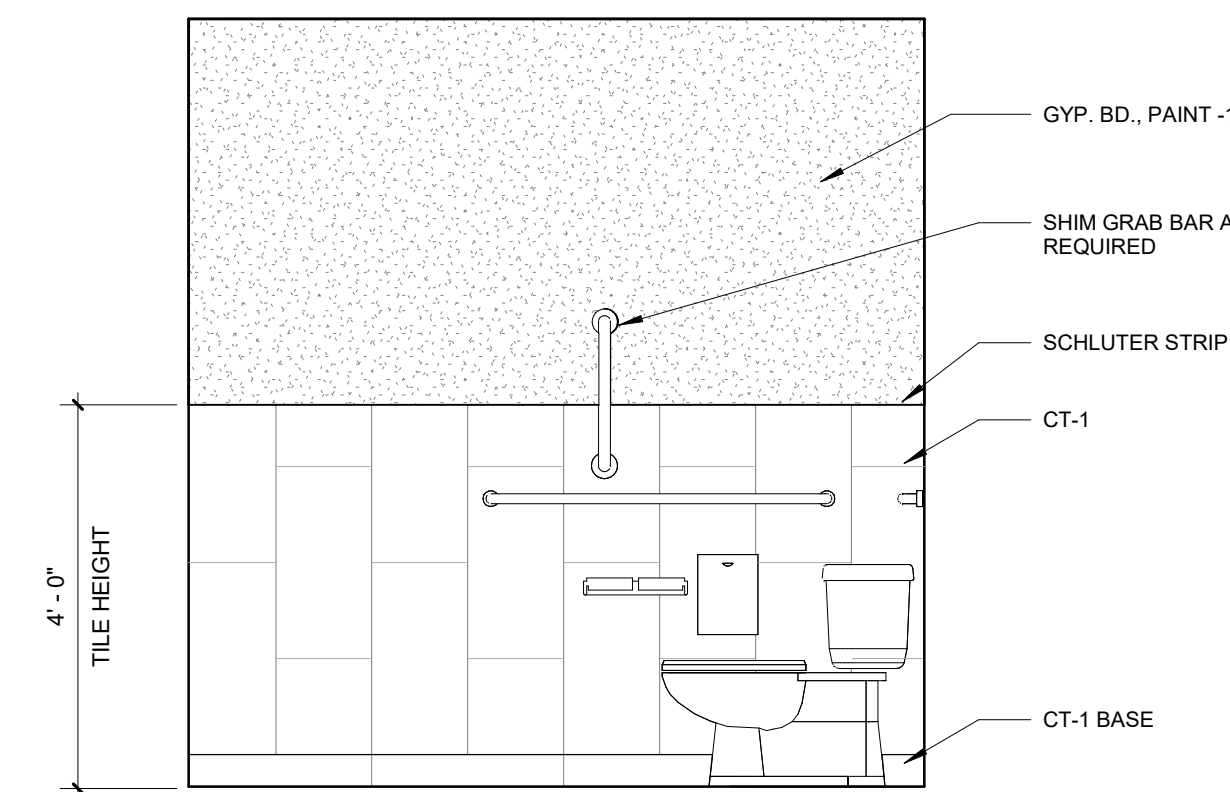
5 TOILET 109 ELEVATION
A412 1/2" = 1'-0"



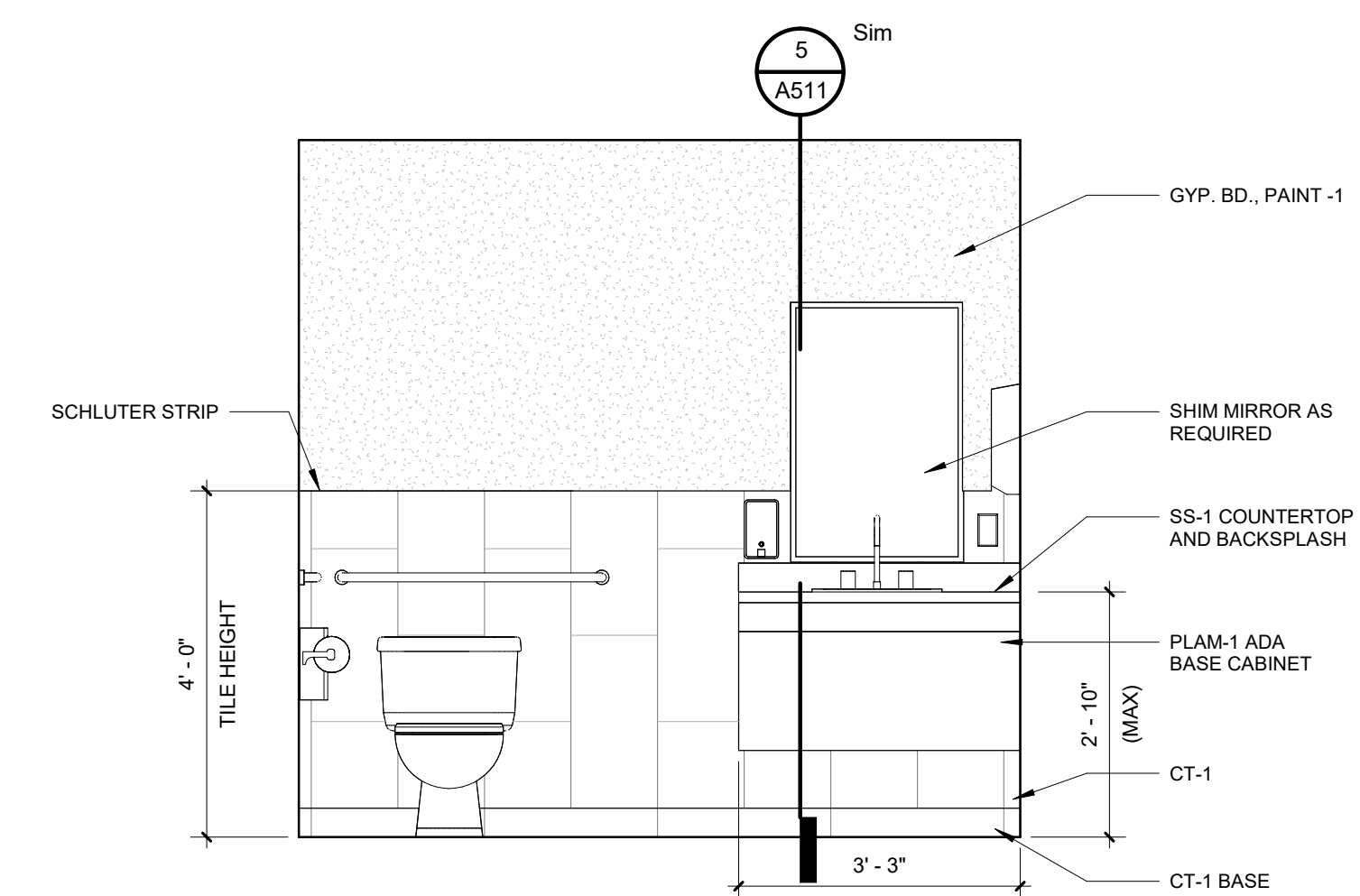
4 TOILET 109 ELEVATION
A412 1/2" = 1'-0"



3 DRINKING FOUNTAIN ELEVATION
A412 1/2" = 1'-0"



2 TOILET 117 ELEVATION
A412 1/2" = 1'-0"



1 TOILET 117 ELEVATION
A412 1/2" = 1'-0"

12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:

**INTERIOR
ELEVATIONS**

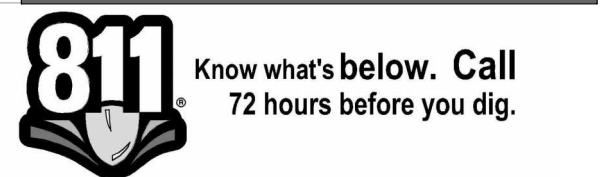
CLIENT:

SEMCO ENERGY GAS COMPANY

PRELIMINARY CONSTRUCTION RECORD

DRAWN BY:	CHECKED BY:	DATE:
NMA	JRA	11/22/2024

SCALE: AS NOTED



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PROJECT NO.

1584-0003

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SHEET NO.

A412



ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS
51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315
www.aewinc.com

ENGINEERING STRONG COMMUNITIES

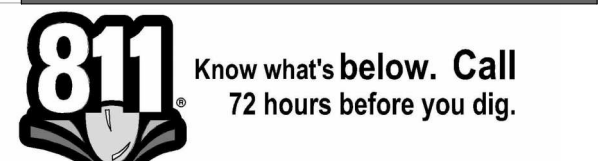
12/09/2024	BID ISSUE	
11/11/2024	75% OWNER REVIEW	
08/05/2024	DD OWNER REVIEW	
DATE	SUBMITTALS/REVISIONS	
PROJECT NAME:		
SEMCO EMERGENCY OPERATIONS CENTER		
SHEET TITLE:		
SECTION DETAILS		
CLIENT:		
SEMCO ENERGY GAS COMPANY		
<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
Author	Checker	11/22/2024
SCALE:		
AS NOTED		

**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SECTION DETAILS

CLIENT: SEMCO ENERGY GAS COMPANY

<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
Author	Checker	11/22/2024
SCALE:		
AS NOTED		



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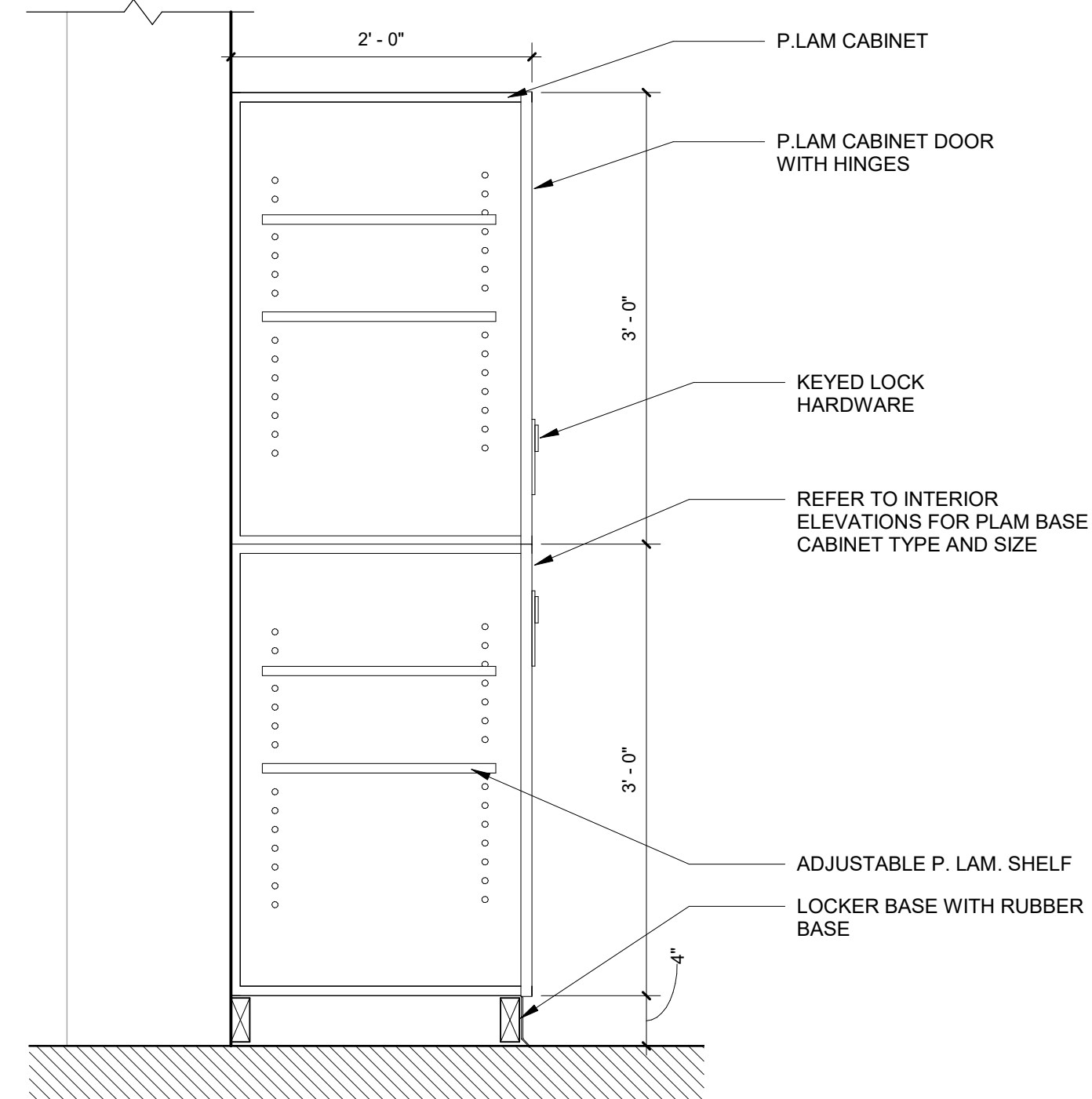
DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 1584-0003

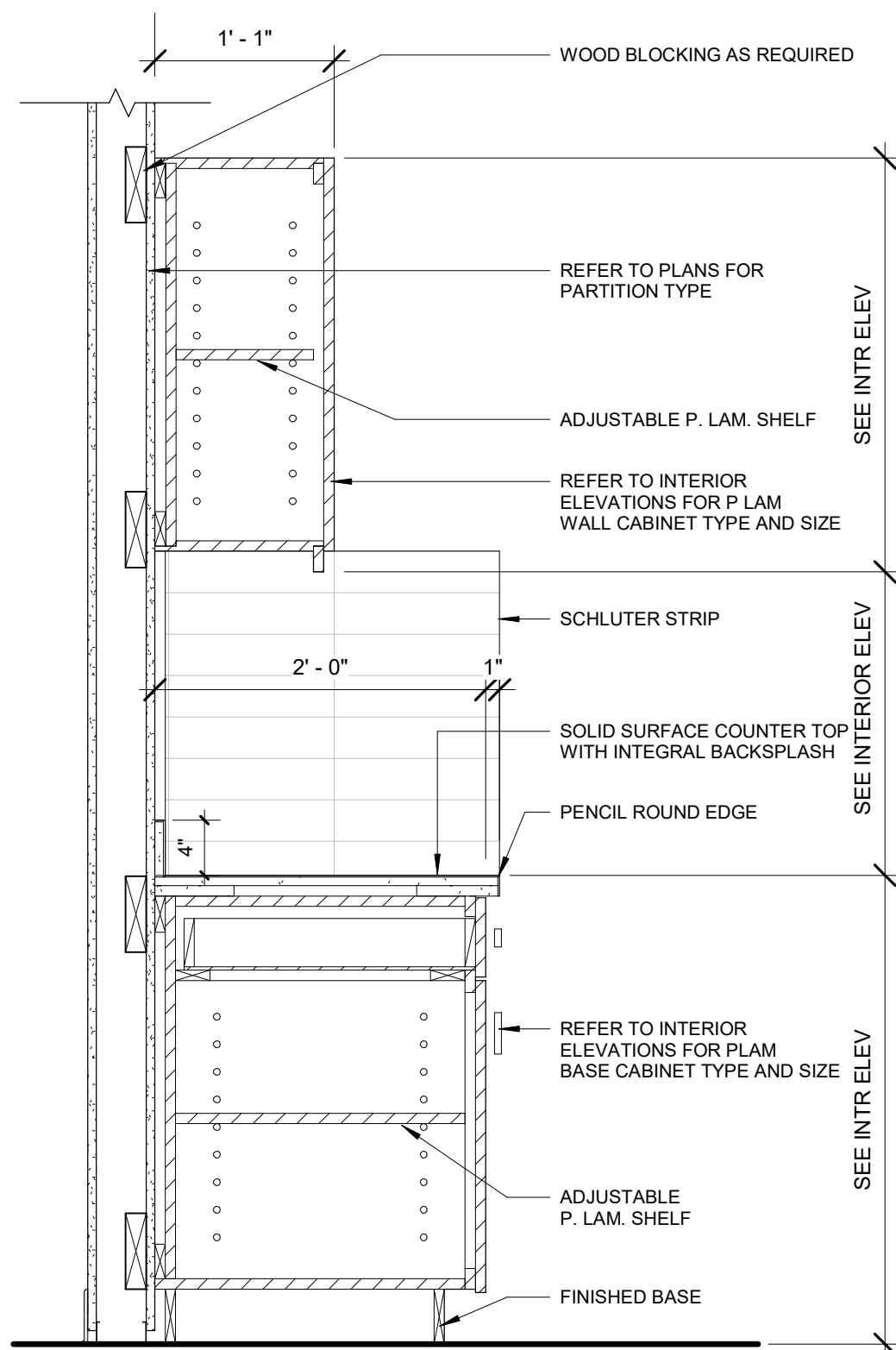
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12/5/2024 4:11:56 PM

SHEET NO.

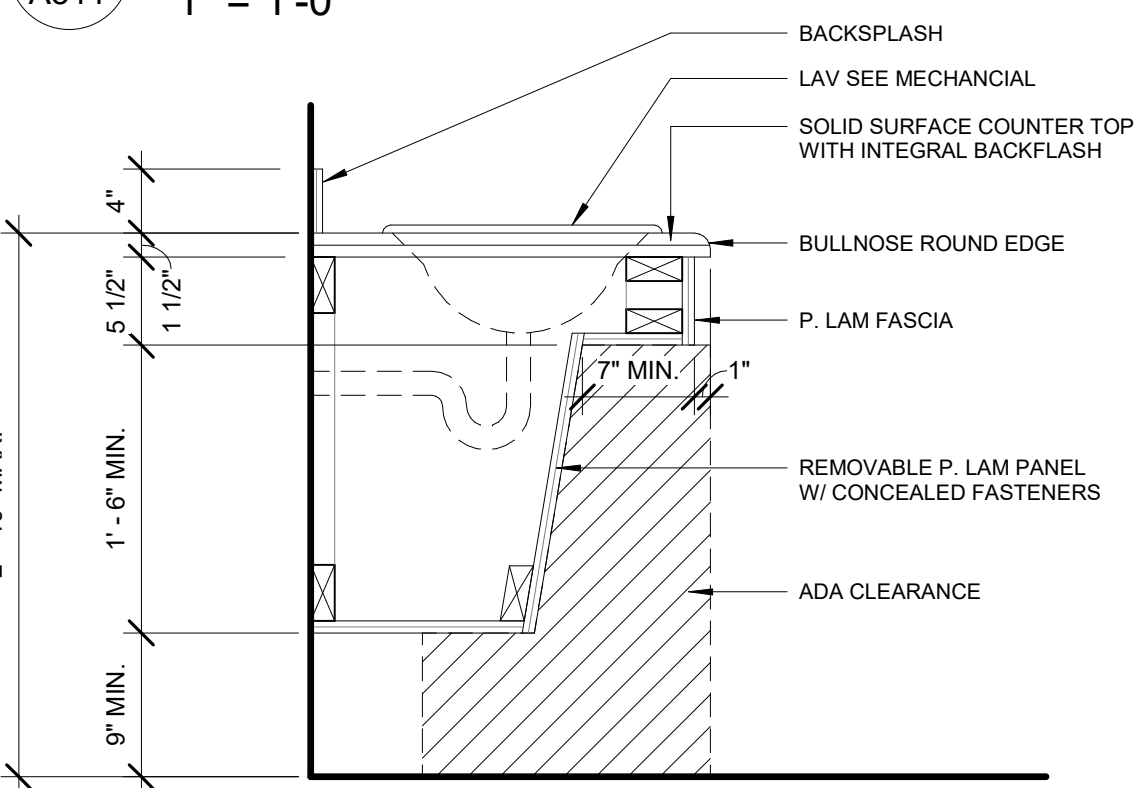
A511



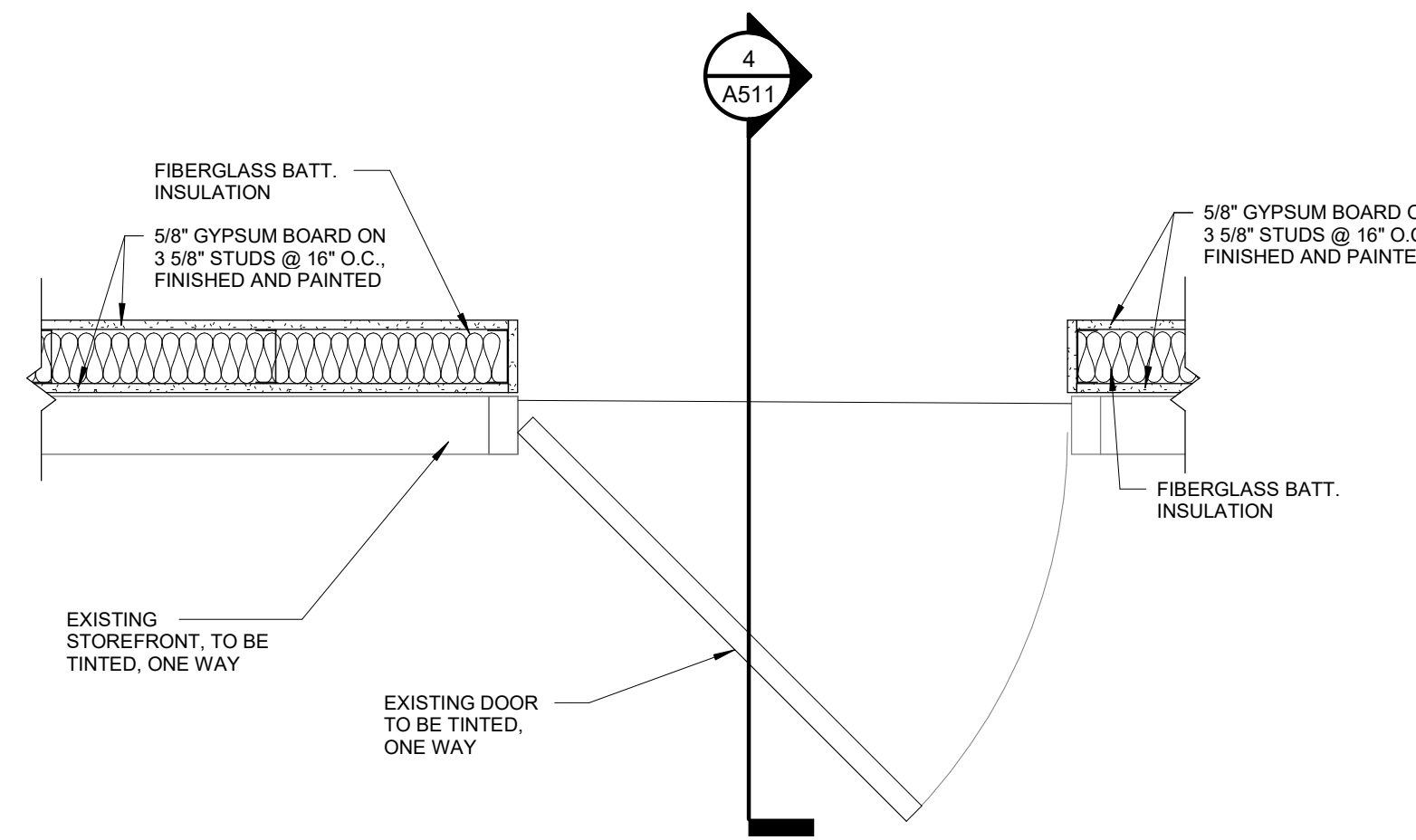
9 LOCKER SECTION DETAIL
A511 1" = 1'-0"



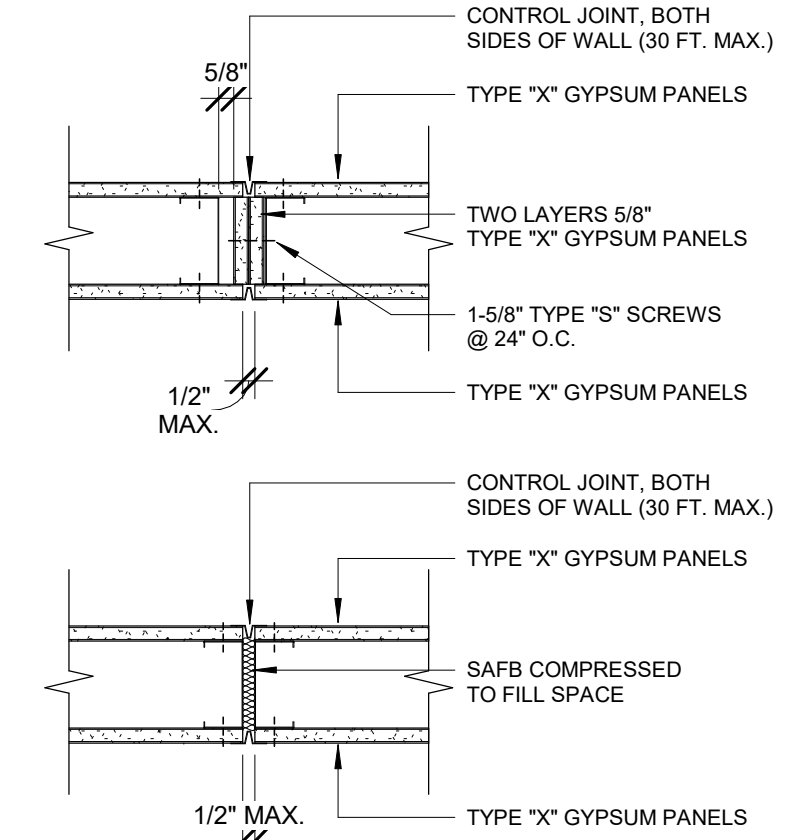
6 TYP. CABINET SECTION DETAIL
A511 1" = 1'-0"



5 TYP. LAVATORY SECTION DETAIL
A511 1" = 1'-0"

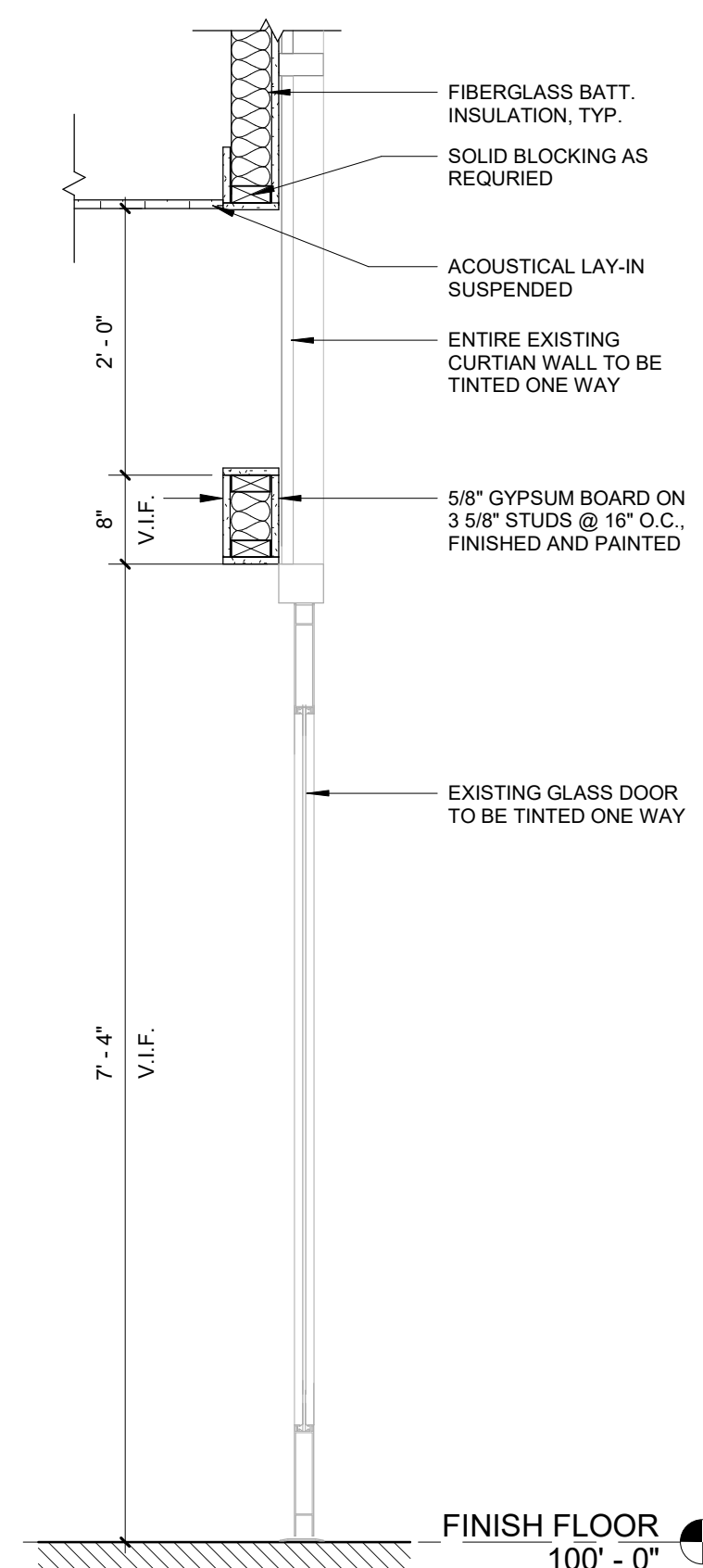


8 EXISTING STOREFRONT DOOR DETAIL
A511 1" = 1'-0"

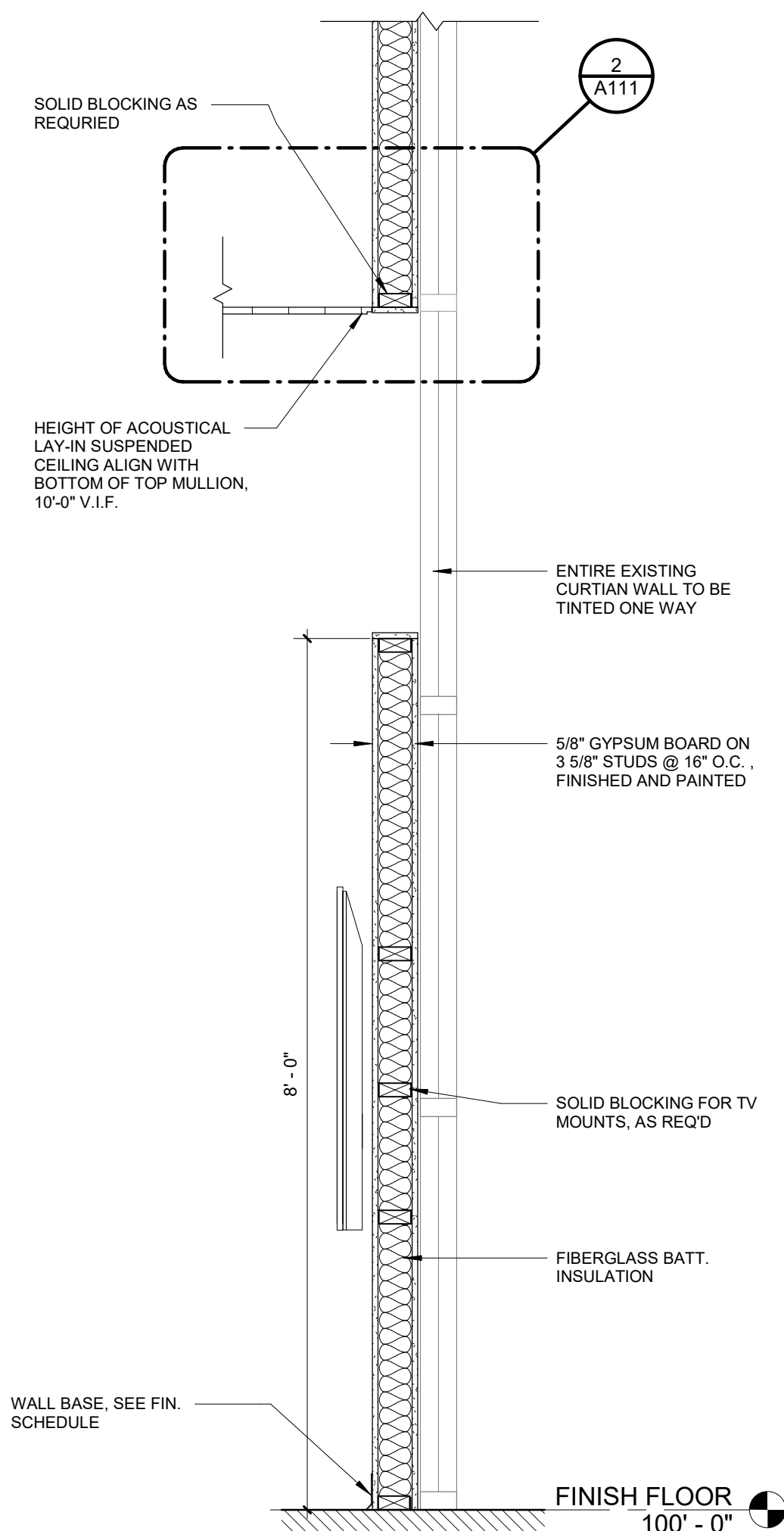


7 GYPSUM BOARD CONTROL JOINT DETAIL
A511 1 1/2" = 1'-0"

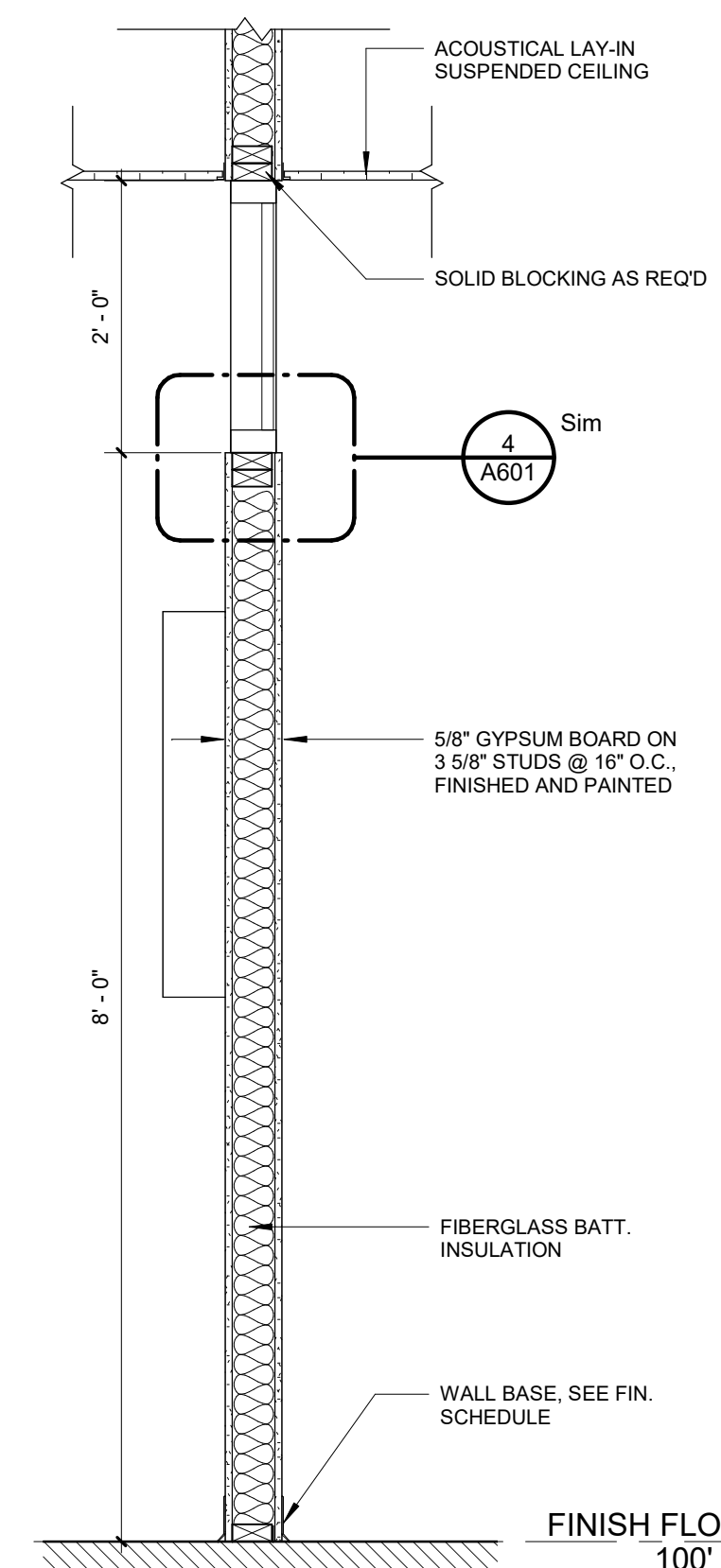
NOTE: G.C. TO SUBMIT LAYOUT FOR PROPOSED JOINT LOCATION



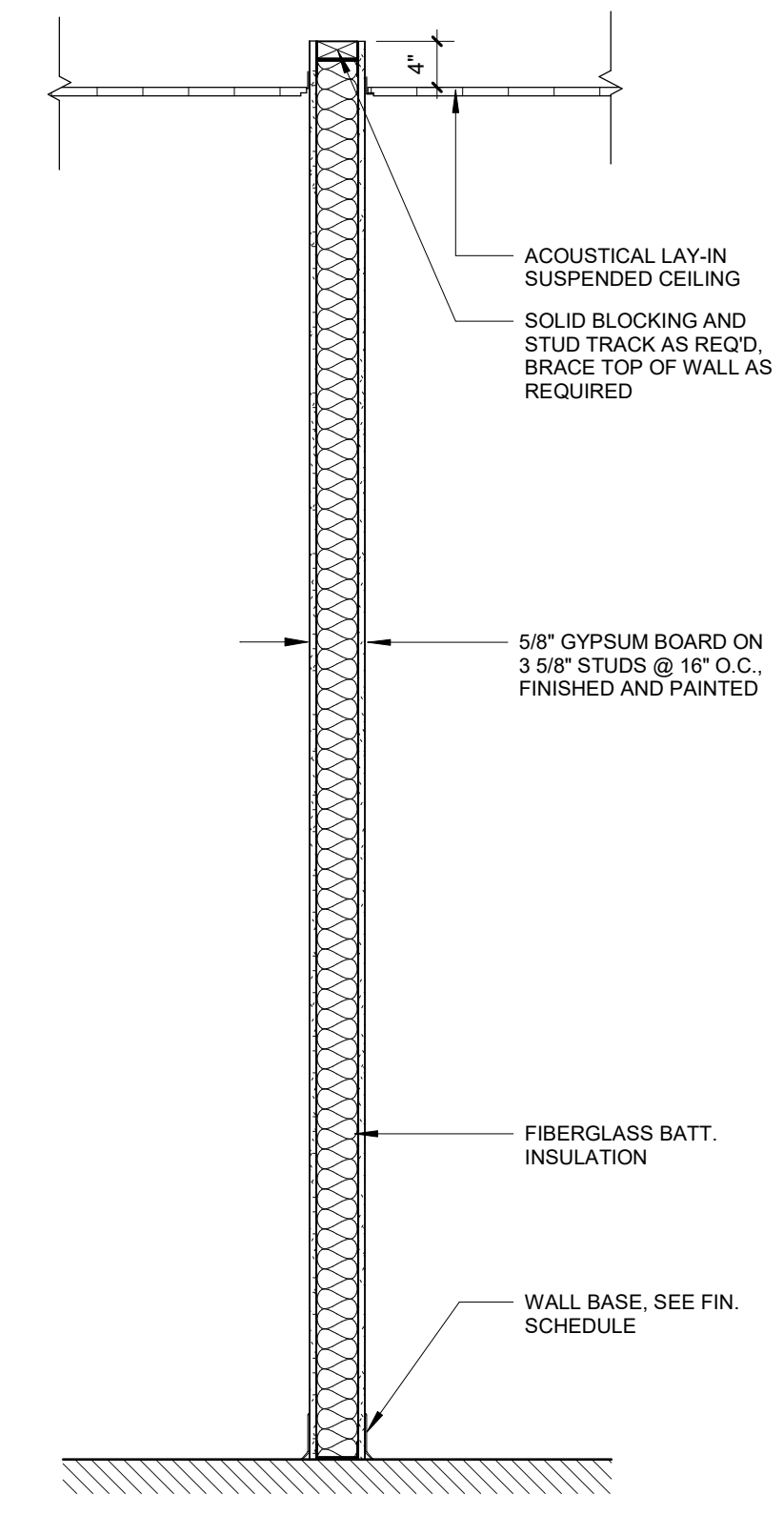
4 INTERIOR PARTITION @ EX. CURTAIN WALL DOOR
A511 3/4" = 1'-0"



3 INTERIOR PARTITION @ EX. CURTAIN WALL
A511 3/4" = 1'-0"



2 INTERIOR PARTITION W/ GLAZING
A511 3/4" = 1'-0"



1 TYP. INTERIOR PARTITION
A511 3/4" = 1'-0"

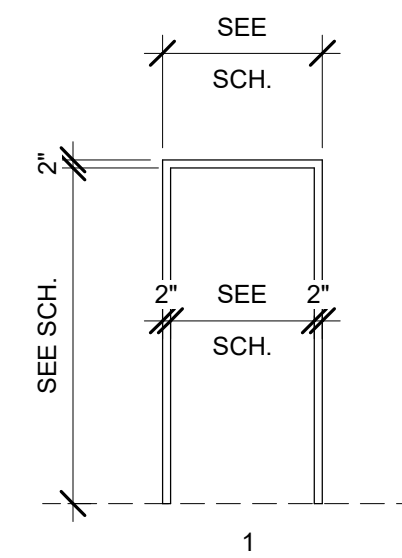


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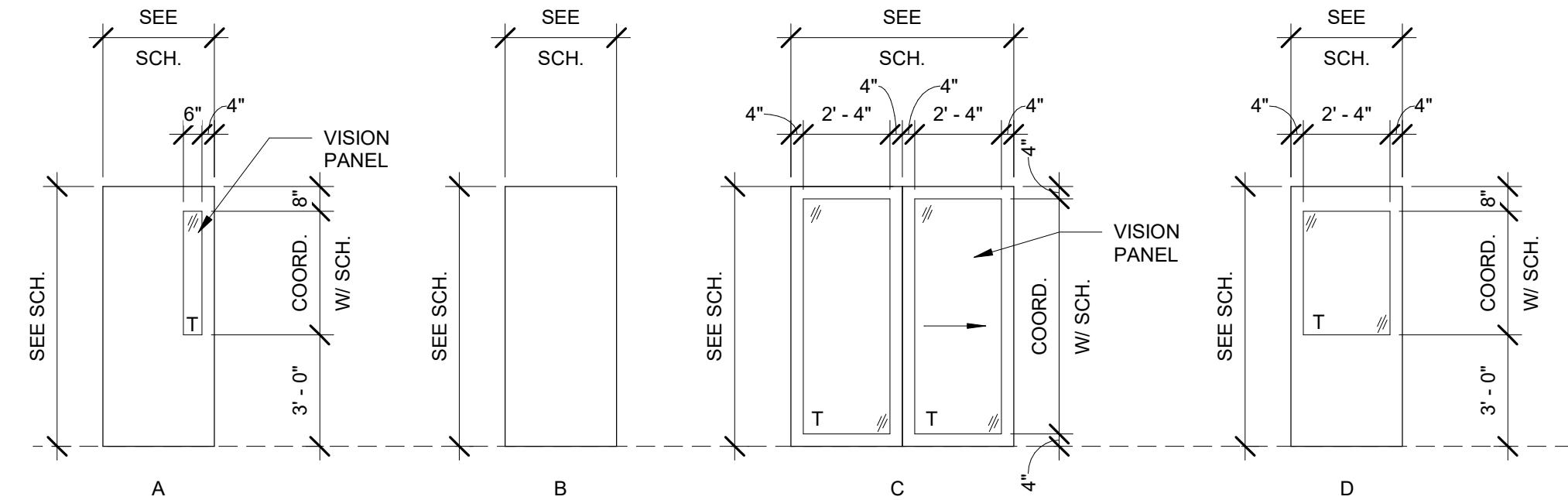
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 51301 Schoenherr Road Phone 586 726 1234
 Shelby Township Fax 586 726 8780
 Michigan 48315
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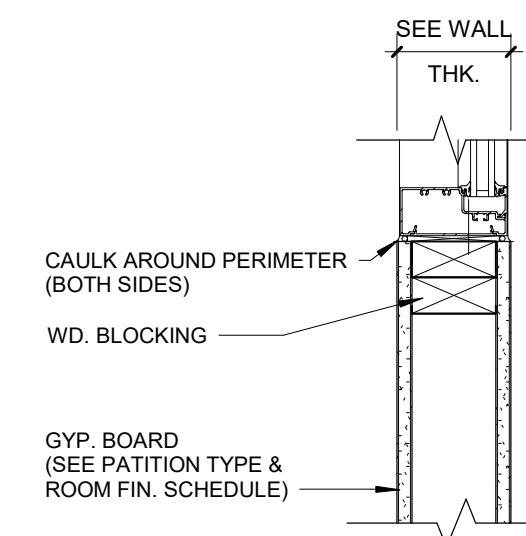
Rm. No.	Location	Door			Frame			Detail			Threshold	HW Set	Comments		
		Width	Height	Thickness	DR. Elev.	DR. Material	Finish	Frame Type	Frame Material	Finish				Head	Jamb
101	ELEC.	3'-0"	7'-0"	1 3/4"	B	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	1	CARD READER
102	TOILET	3'-0"	7'-0"	1 3/4"	B	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	MAR	2
103	OFFICE	6'-0"	7'-0"	1 3/4"	C	ALUM	PRE-FIN	1	ALUM	PRE-FIN	2/A601	2/A601	-	3	COORD. HARDWARE WITH MANUF.
104	OFFICE	6'-0"	7'-0"	1 3/4"	C	ALUM	PRE-FIN	1	ALUM	PRE-FIN	2/A601	2/A601	-	3	COORD. HARDWARE WITH MANUF.
105	OFFICE	6'-0"	7'-0"	1 3/4"	C	ALUM	PRE-FIN	1	ALUM	PRE-FIN	2/A601	2/A601	-	3	COORD. HARDWARE WITH MANUF.
106	GAS CONTROL	3'-0"	7'-0"	1 3/4"	D	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	4	CARD READER
107	TOILET	3'-0"	7'-0"	1 3/4"	B	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	MAR	2
108	FATIGUE ROOM	3'-0"	7'-0"	1 3/4"	D	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	5	CARD READER
109	OT CONTROL ROOM	3'-0"	7'-0"	1 3/4"	A	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	6	CARD READER
110	DIGITAL CONTROL ROOM	3'-0"	7'-0"	1 3/4"	B	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	7	
111	GAS SUPERVISOR'S OFFICE	3'-0"	7'-0"	1 3/4"	A	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	7	
112	DISPATCH	3'-0"	7'-0"	1 3/4"	D	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	4	CARD READER
113	DISPATCH SUPERVISOR'S OFFICE	3'-0"	7'-0"	1 3/4"	A	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	7	
114	TOILET	3'-0"	7'-0"	1 3/4"	B	HM	PT	1	HM	PT	2/A601	2/A601	1/A601	MAR	2
115	DISPATCH	-	-	1	-	-	-	-	-	-	-	-	-	8	EXISTING DOOR, INSTALL CARD READER



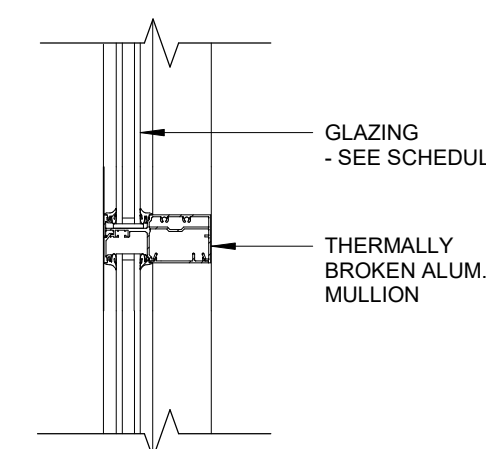
FRAME TYPES
 SCALE: 1/4"=1'-0"
 T = TEMPERED GLASS
 1" INSULATED, LOW E, TINTED GLASS (EXTERIOR)



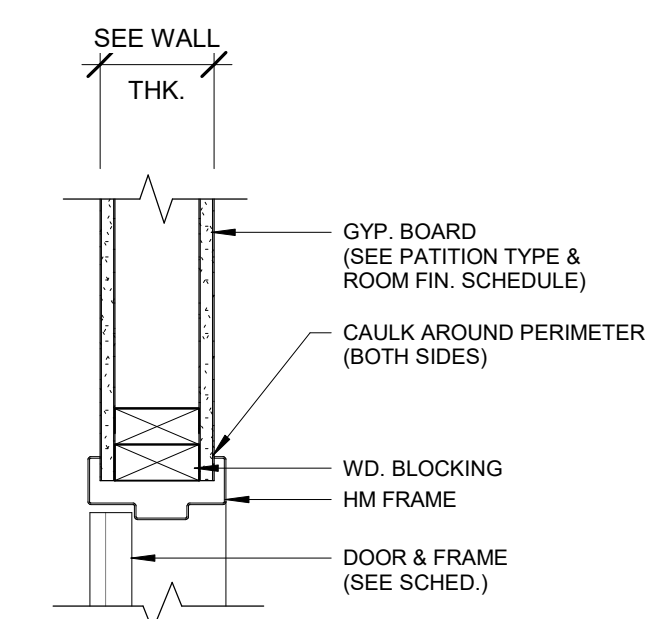
DOOR ELEVATIONS
 SCALE: 1/4"=1'-0"



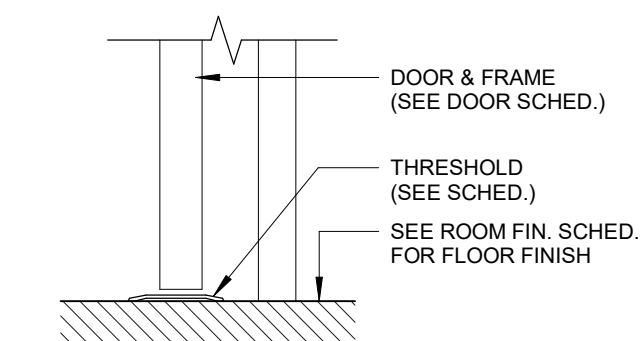
4 CURTAIN WALL WINDOW SILL
 A601 1 1/2" = 1'-0"



3 ALUM WINDOW MULLION
 A601 1 1/2" = 1'-0"



2 HM. DR. FRAME HEAD / JAMB DETAIL
 A601 1 1/2" = 1'-0"



1 HM DR FRAME SILL DETAIL
 A601 1 1/2" = 1'-0"

12/05/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
08/05/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

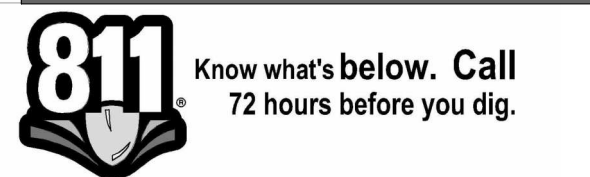
**SEMCO
 EMERGENCY
 OPERATIONS
 CENTER**

SHEET TITLE:

**DOOR SCHEDULE &
 DETAILS**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

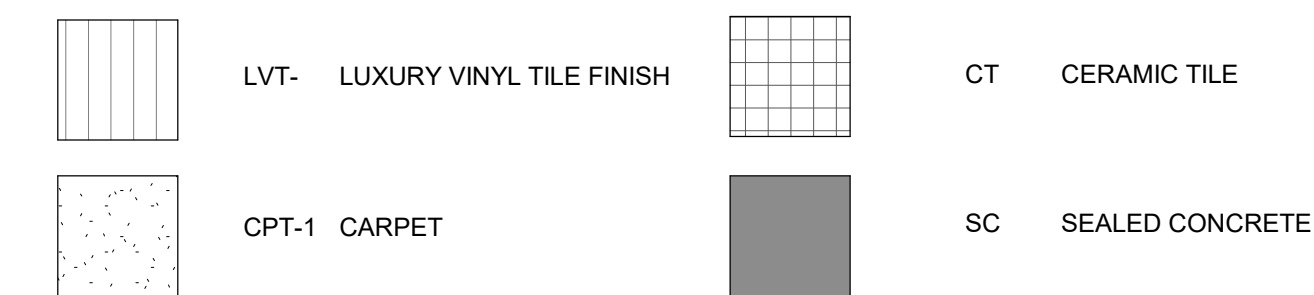
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SHEET NO.

A601

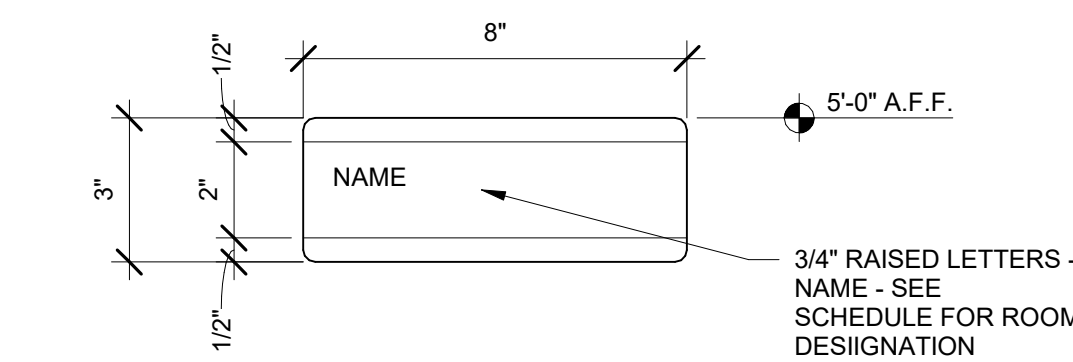
RM. NUMBER	LOCATION	FLOOR FIN.	BASE FIN.	WALLS								CEILING FIN.	CEILING HEIGHT	ROOM SIGN	COMMENTS
				N. MATERIAL	N. FINISH	E. MATERIAL	E. FINISH	S. MATERIAL	S. FINISH	W. MATERIAL	W. FINISH				
100	EOC	CPT-1/LVT-1	RB	GYP	PT-3	GYP	PT-3	GYP	PT-4	GYP	PT-3/CT-2	ACT	10'-0"	Y	
101	ELEC.	SC	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-2	ACT	10'-0"	Y	
102	TOILET	CT-1	CT	GYP	CT-1/PT-1	GYP	CT-1/PT-1	GYP	CT-1/PT-1	GYP	CT-1/PT-1	ACT	8'-0"	Y	
103	OFFICE	CPT-1	RB	GYP	WC-1	GYP	PT-3	GYP	PT-3	GYP	PT-3	ACT	10'-0"	Y	
104	OFFICE	CPT-1	RB	GYP	WC-1	GYP	PT-3	GYP	PT-3	GYP	PT-3	ACT	10'-0"	Y	
105	OFFICE	CPT-1	RB	GYP	WC-1	GYP	PT-3	GYP	PT-3	GYP	PT-3	ACT	10'-0"	Y	
106	GAS CONTROL	CPT-1/LVT-1	RB	GYP	PT-3	GYP	PT-4	GYP	PT-3	GYP	PT-3/WC-1	ACT	10'-0"	Y	
107	TOILET	CT-1	CT	GYP	CT-1/PT-1	GYP	CT-1/PT-1	GYP	CT-1/PT-1	GYP	CT-1/PT-1	ACT	8'-0"	Y	
108	FATIGUE ROOM	CPT-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-3	GYP	PT-3	ACT	10'-0"	Y	
109	OT CONTROL ROOM	SC	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-2	ACT	10'-0"	Y	
110	DIGITAL CONTROL ROOM	SC	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-2	ACT	10'-0"	N	
111	GAS SUPERVISOR'S OFFICE	CPT-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-3	GYP	PT-1	ACT	10'-0"	Y	
112	DISPATCH	CPT-1/LVT-1	RB	GYP	PT-4	GYP	PT-3	GYP	PT-3	GYP	PT-3	ACT	10'-0"	Y	
113	DISPATCH SUPERVISOR'S OFFICE	CPT-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-3	GYP	PT-2	ACT	10'-0"	Y	
114	TOILET	CT-1	CT	GYP	CT-1/PT-1	GYP	CT-1/PT-1	GYP	CT-1/PT-1	GYP	CT-1/PT-1	ACT	8'-0"	Y	

FLOOR FINISH LEGEND :

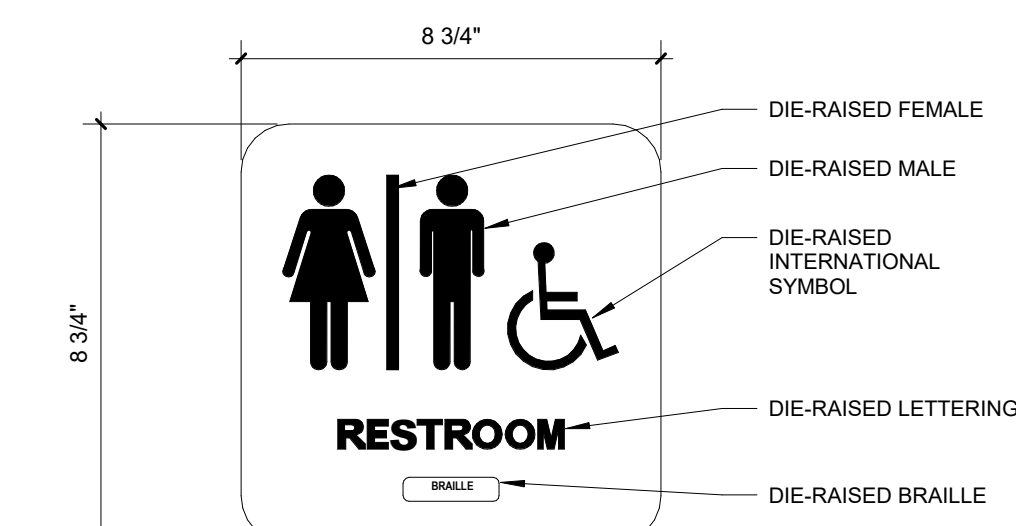


ROOM FINISH ABBREVIATIONS :

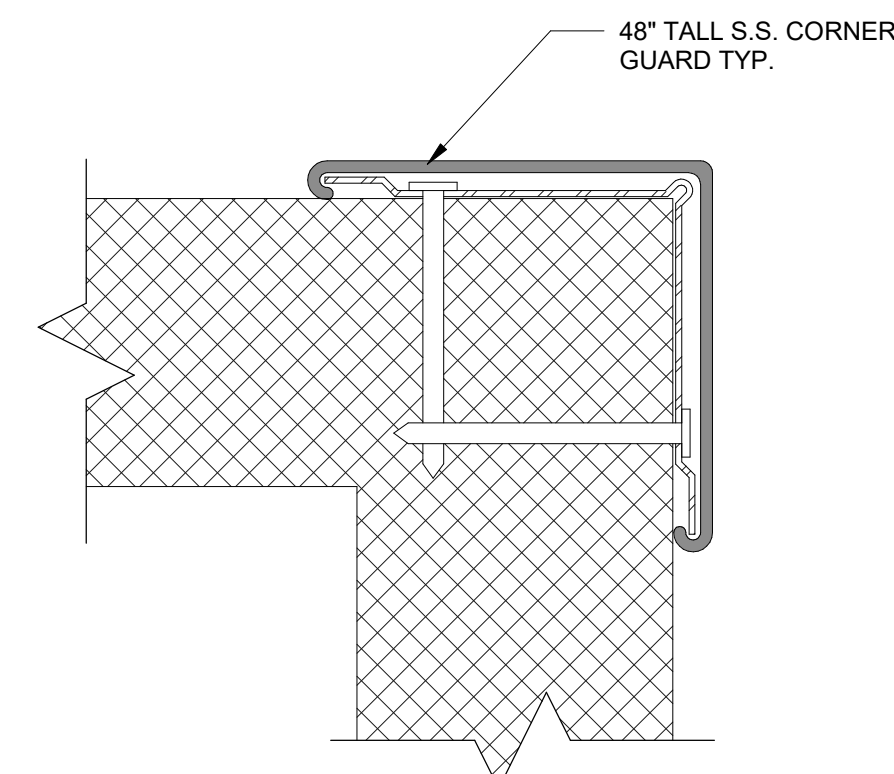
- CPT - 1 18"x36" MANNINGTON COMMERCIAL COLORCAST SWELL COLOR UNCHARTED
- LVT - 1 SHAW CONTRACT CODED 4143V COLOR CONVEY
- CT-1 12"x24" BEAVER TILE SEQUENCE PORCELAIN COLOR CURRENT
- CT-2 3"x12" BEAVER TILE EMOTIVE COLOR PRIDE BLUE GLOSSY
- CT-3 24"x48" BEAVER TILE CANNE 3D COLOR ECRU (VERTICAL)
- FLAM-1 WILSONART PREMIUM LAMINATE COLOR LANDMARK WOOD
- SC SEALED CONCRETE
- SS-1 CORIAN SOLID SURFACE IN STONIQUE
- SS-2 CORIAN SOLID SURFACE IN CARRARA LINO
- RB TARKETT GREY WG 48 VINYL RUBBER BASE
- PT - 1 GYPSUM BOARD PAINT FINISH
- WC-1 KOROSEAL REIGN ON THE PIER, STORM SG26-08



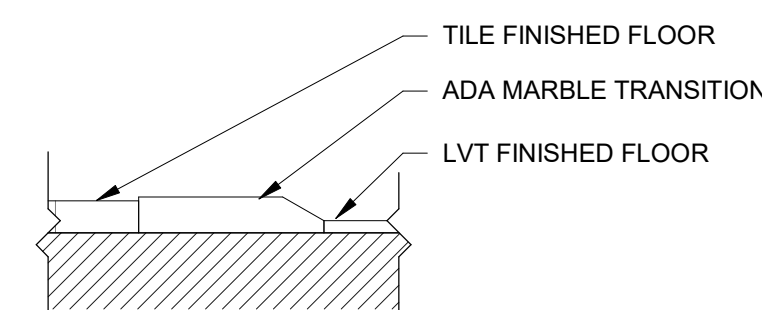
7 INTERIOR SIGN - TYPE 1
A611 3" = 1'-0"



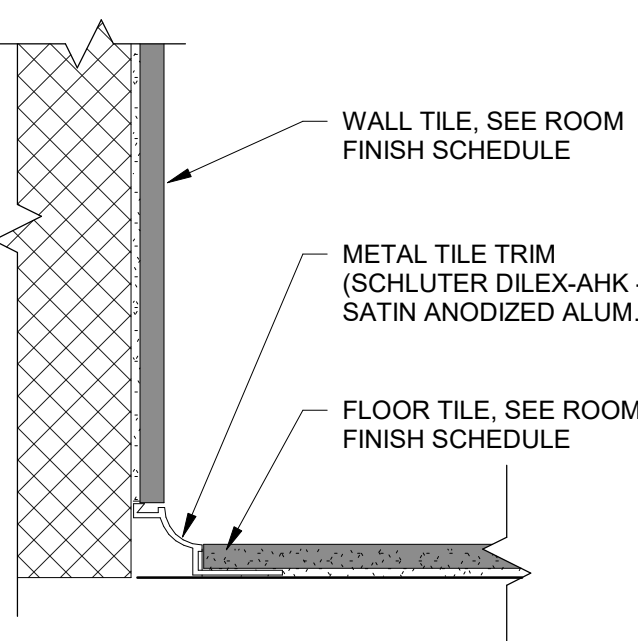
8 INTERIOR SIGN - TYPE 2
A611 3" = 1'-0"



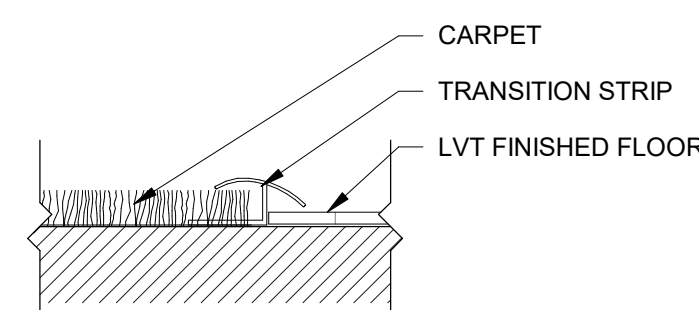
9 TYP. CORNER GUARD DETAIL
A611 12" = 1'-0"



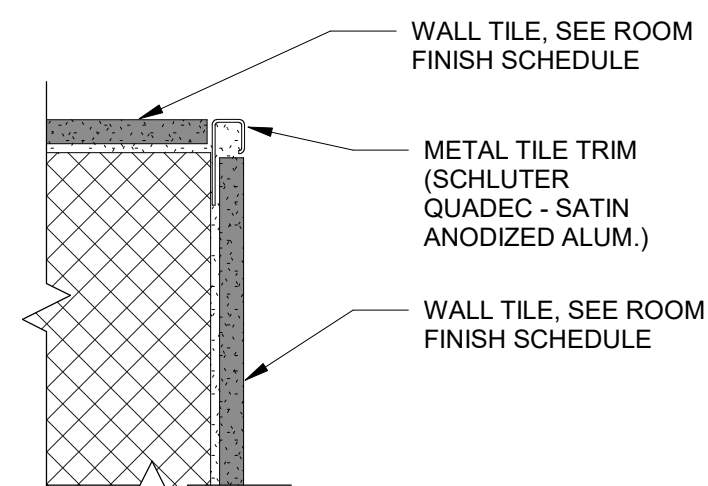
6 LVT / TILE MARBLE TRANSITION
A611 6" = 1'-0"



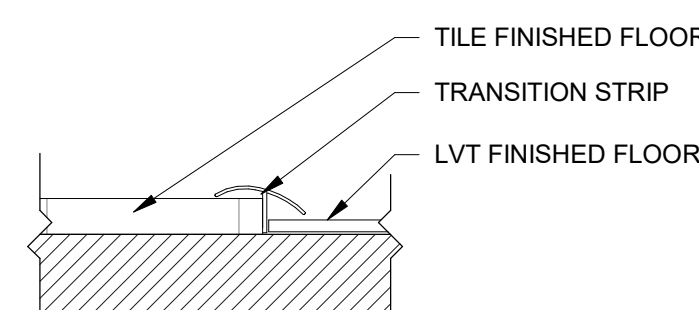
3 TYP. TILE BASE DETAIL
A611 6" = 1'-0"



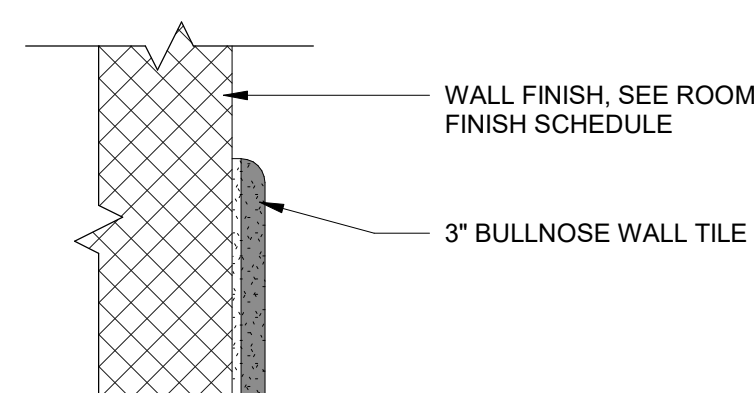
5 CARPET / LVT TRANSITION
A611 6" = 1'-0"



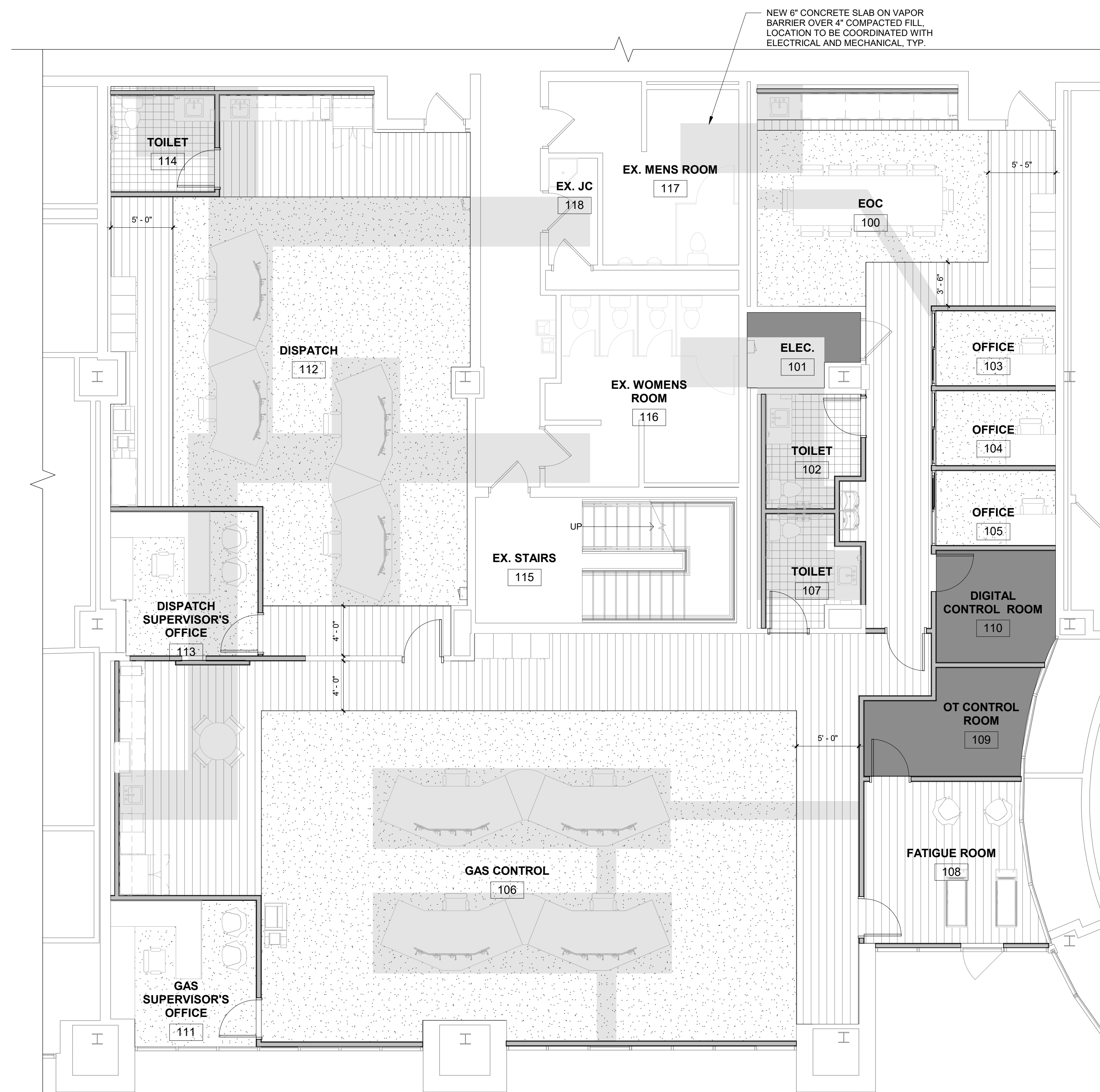
2 TYP. TILE DETAIL AT CORNER
A611 6" = 1'-0"



4 LVT / TILE TRANSITION
A611 6" = 1'-0"



1 TYP. TILE DETAIL AT TOP OF TILE
A611 6" = 1'-0"



FINISH FLOOR PLAN
3/16" = 1'-0"
NORTH



ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS
51301 Schoenherr Road Phone 586 726 1234
Shelby Township Michigan 48315 Fax 586 726 8780
www.aewinc.com

ENGINEERING STRONG COMMUNITIES

12/09/2024 BID ISSUE
11/11/2024 75% OWNER REVIEW
08/05/2024 DD OWNER REVIEW

DATE SUBMITTALS/REVISIONS

PROJECT NAME:

**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:

**FLOOR FINISH PLAN
& DETAILS**

CLIENT:

SEMCO ENERGY GAS COMPANY

PRELIMINARY CONSTRUCTION RECORD

DRAWN BY: NMA CHECKED BY: JRA DATE: 11/22/2024
SCALE: AS NOTED



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PROJECT NO. 1584-0003



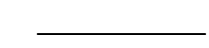

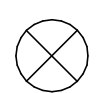
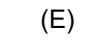
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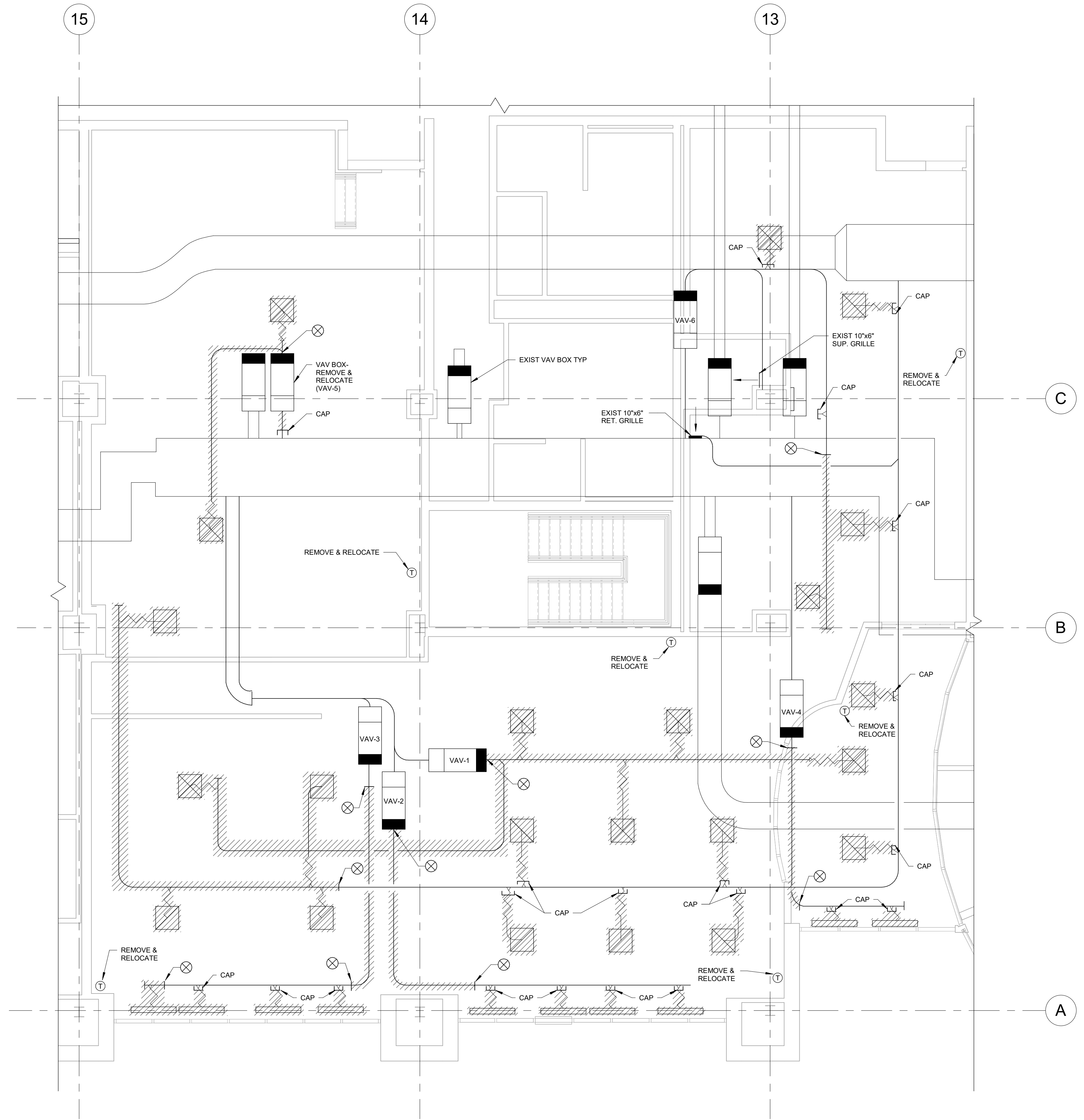
SHEET NO.

A611

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MECHANICAL LEGEND:

-  EXISTING MECHANICAL TO BE REMOVED
-  EXISTING MECHANICAL TO REMAIN
-  NEW MECHANICAL SERVICE
-  NEW CONNECTION TO EXISTING
-  DEMOLITION LIMITS- POINT OF NEW CONNECTION
-  EXISTING



1 HVAC DEMOLITION PLAN
 MD101 3/16" = 1'-0"
 NORTH



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 CIVIL ENGINEERS SURVEYORS ARCHITECTS
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ENGINEERING STRONG COMMUNITIES

12/08/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

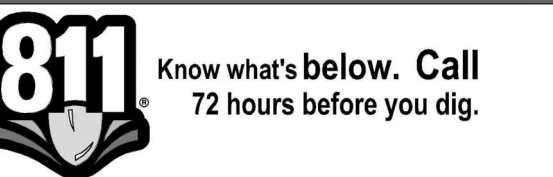
**SEMCO
 EMERGENCY
 OPERATIONS
 CENTER**

SHEET TITLE:

**HVAC DEMOLITION
 PLAN**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: ARD	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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SHEET NO.

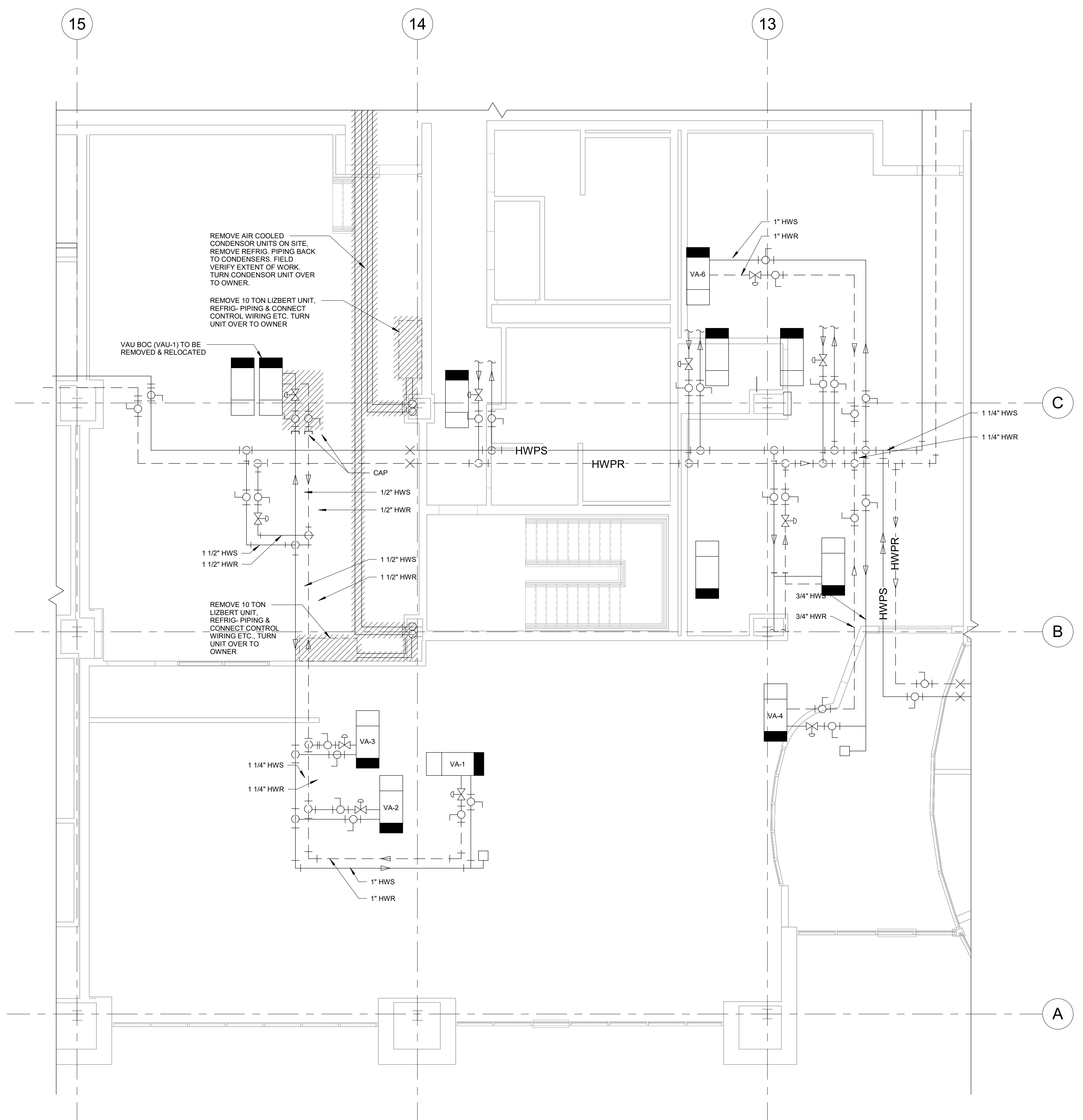
MD101



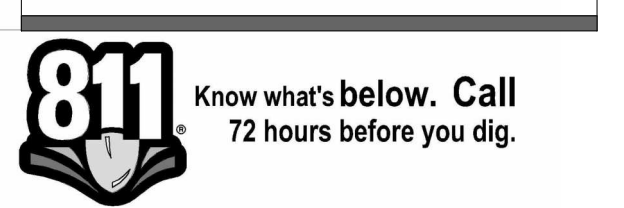
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ENGINEERING STRONG COMMUNITIES



12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
SEMCO EMERGENCY OPERATIONS CENTER	
SHEET TITLE:	
HYDRONIC PIPING DEMOLITION PLAN	
CLIENT:	
SEMCO ENERGY GAS COMPANY	
<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION
<input type="checkbox"/> RECORD	
DRAWN BY: NMA	CHECKED BY: JRA
DATE: 11/22/2024	
SCALE: AS NOTED	



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PROJECT NO. 1584-0003

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SHEET NO.

MD102

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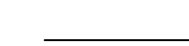



1 HYDRONIC PIPING DEMOLITION PLAN
 MD102 3/16" = 1'-0"
 NORTH

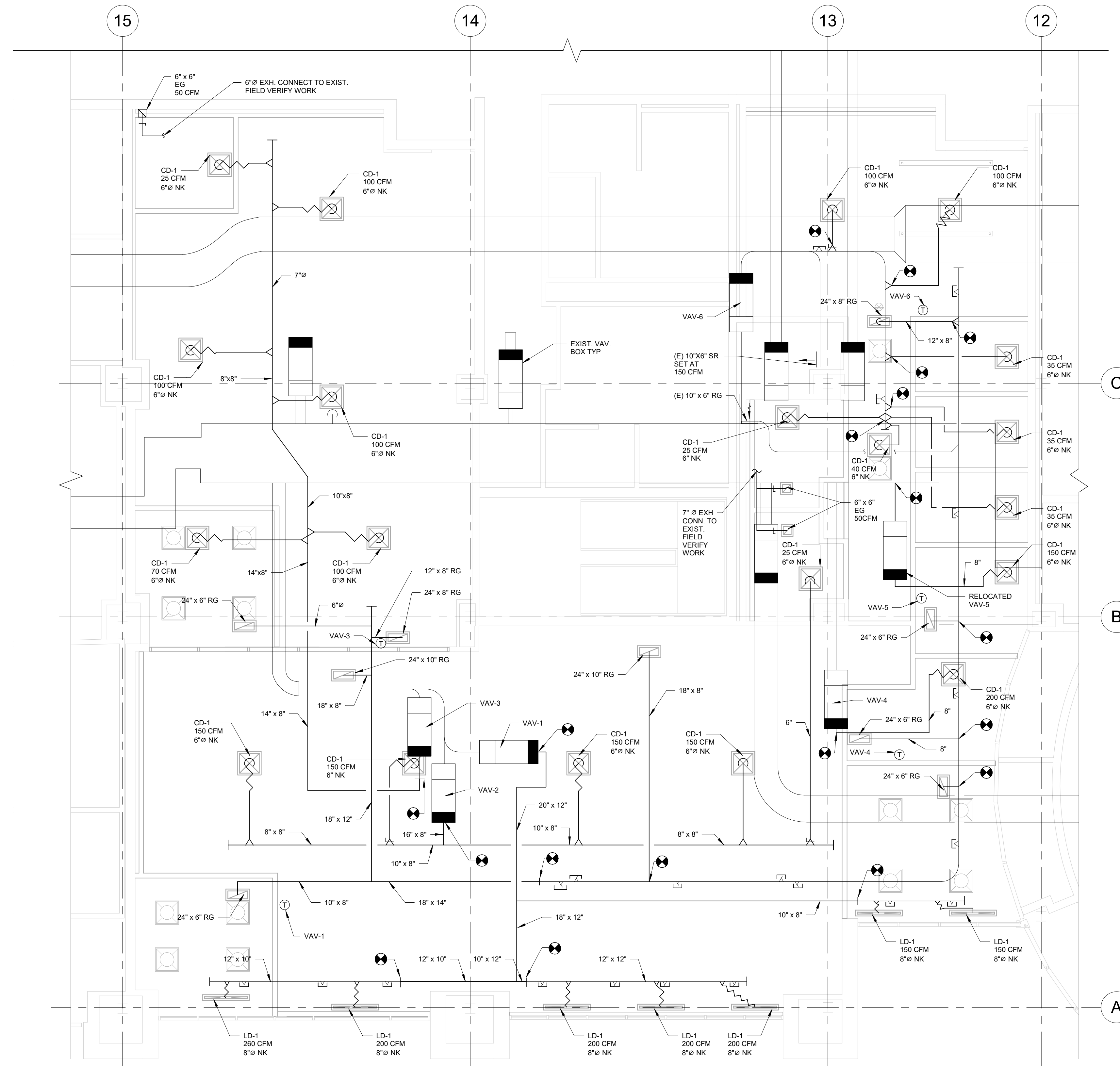
VARIABLE VOLUME AIR TERMINAL BOX SCHEDULE

TAG	SYSTEM	PRICE MODEL NO.	CFM	UNIT DATA			HOT WATER COIL					REMARKS	
				INLET SIZE "Ø"	SP IN. WG AT MAX CFM	NO. OF ROWS	MIN. BTU AT 180° F EWT	LVG AIR °F	STD GPM	WPD FT WG	CONN PIPE SIZE		
VAV - 1	SDV	1360	14	.13	.38	.62	1	36,000	80	4.0	3.6	1"	EXISTING
VAV - 2	SDV	600	12	.15	.31	.62	1	12,000	74	1.0	.95	1"	EXISTING
VAV - 3	SDV	500	12	.13	.27	.60	1	11,000	75	1.0	.95	1"	EXISTING
VAV - 4	SDV	200	10	.13	.27	.54	1	3,800	73	.5	.10	3/4"	EXISTING
VAV - 5	SDV	150	5	.12	.25	.37	1	3,000	79.4	.5	.10	1/2"	EXISTING-RELOCATED
VAV - 6	SDV	520	12	.12	.25	.50	1	12,000	75	1.0	.10	1"	EXISTING

NOTES:
 1. VAV- VARIABLE VOLUME BOX
 2. ALL BOXES HAVE SOUND ATTENUATORS
 3. HOT WATER HEATING COILS ARE BASED ON 180°F ENTERING TEMP.

MECHANICAL LEGEND:

-  EXISTING MECHANICAL TO BE REMOVED
-  EXISTING MECHANICAL TO REMAIN
-  NEW MECHANICAL SERVICE
-  NEW CONNECTION TO EXISTING
-  DEMOLITION LIMITS- POINT OF NEW CONNECTION
-  EXISTING



1 HVAC PLAN
 M101 3/16" = 1'-0"



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ENGINEERING STRONG COMMUNITIES

12/06/2024	BID ISSUE	
11/11/2024	75% OWNER REVIEW	
DATE	SUBMITTALS/REVISIONS	
PROJECT NAME:		
SEMCO EMERGENCY OPERATIONS CENTER		
SHEET TITLE:		
HVAC PLAN		
CLIENT:		
SEMCO ENERGY GAS COMPANY		
<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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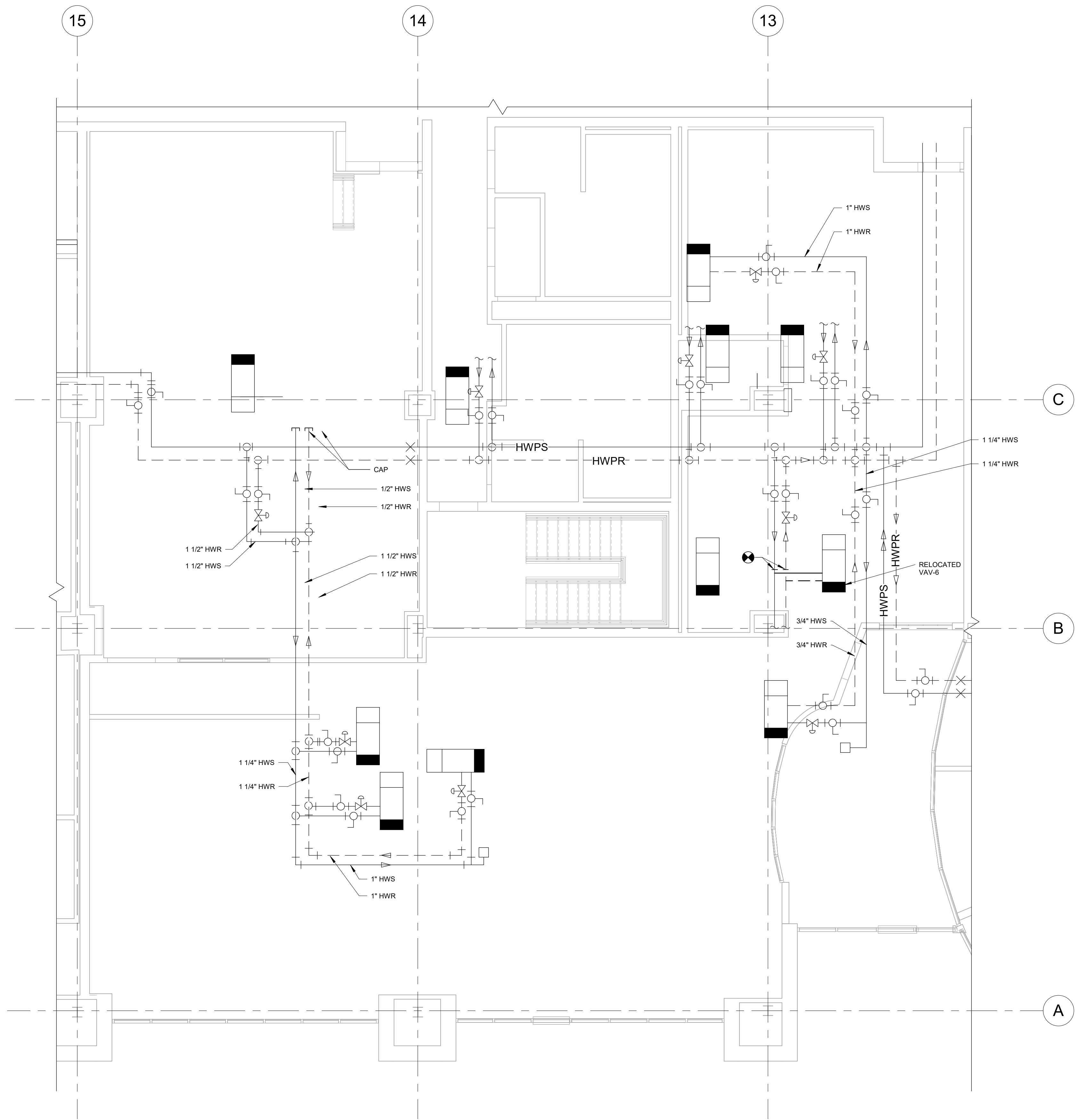
M101



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ENGINEERING STRONG COMMUNITIES



1 HYDRONIC PIPING PLAN
 M102 3/16" = 1'-0"
 NORTH

12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

**SEMCO
 EMERGENCY
 OPERATIONS
 CENTER**

SHEET TITLE:
**HYDRONIC PIPING
 PLAN**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: ARD	CHECKED BY: JRA	DATE: OCTOBER 2024
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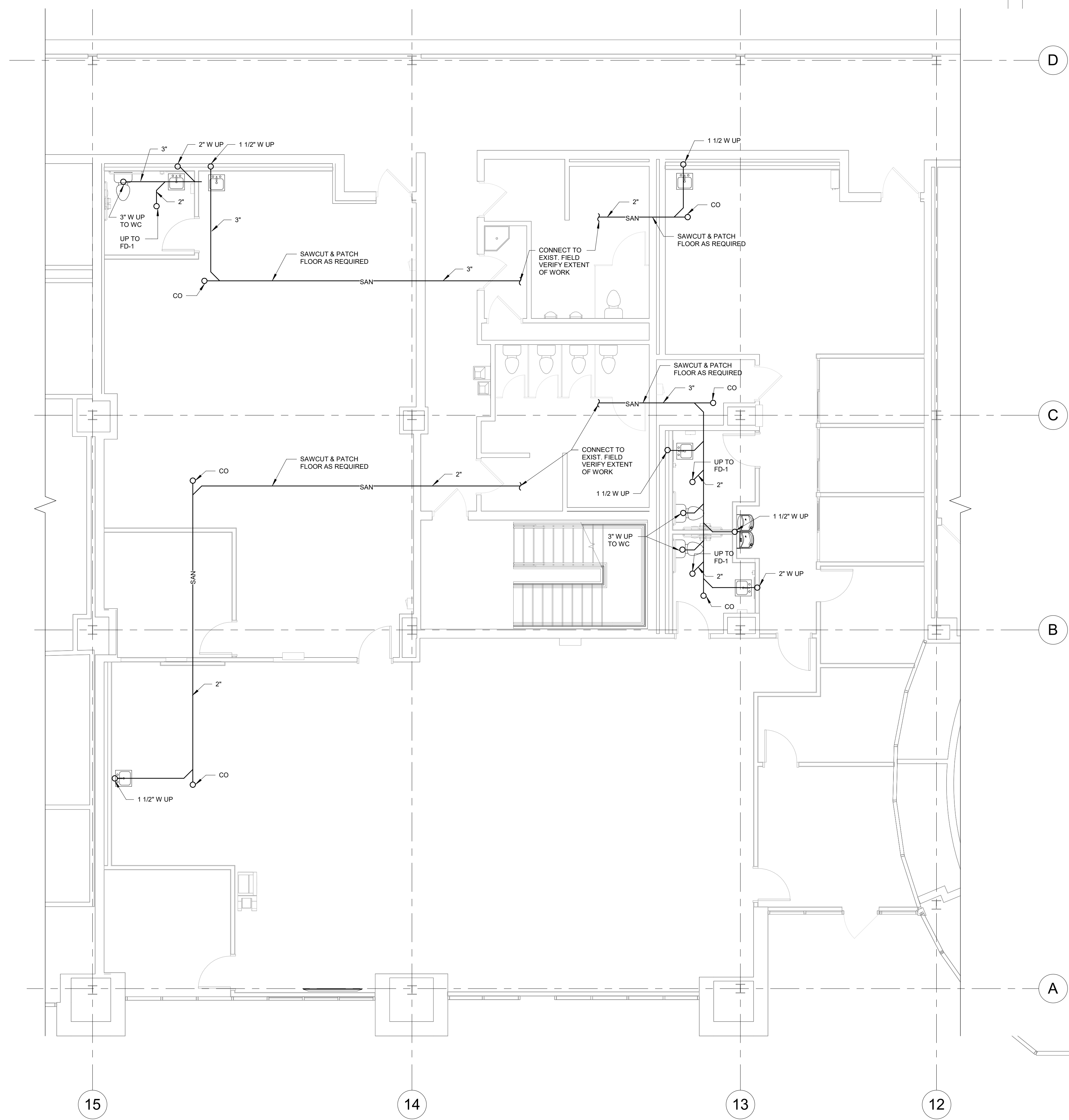
M102



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ENGINEERING STRONG COMMUNITIES



12/09/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

**SEMCO
 EMERGENCY
 OPERATIONS
 CENTER**

SHEET TITLE:

**UNDERGROUND
 PLUMBING PLAN**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
Author	Checker	11/22/2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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SHEET NO.

P100

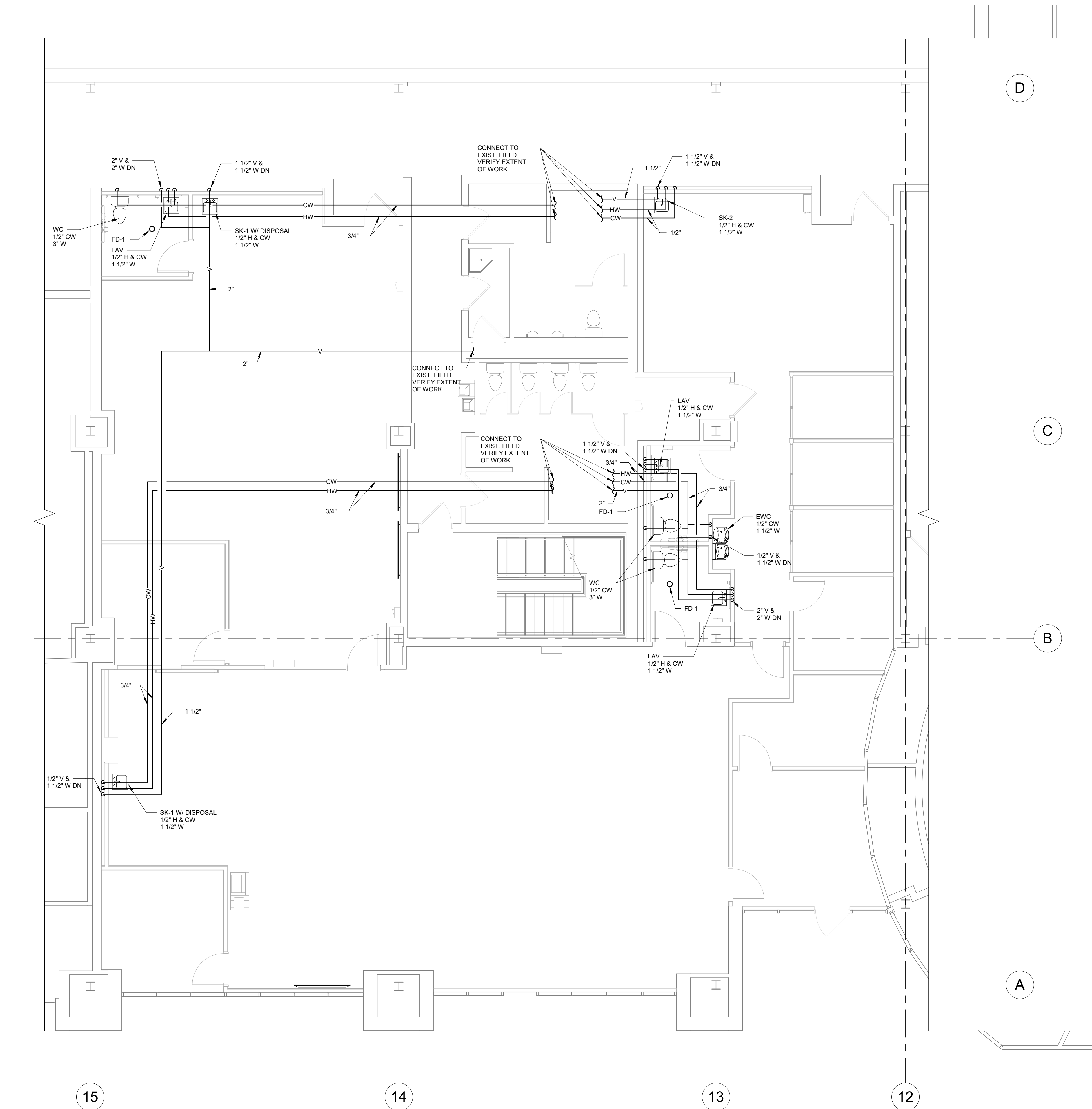
UNDERGROUND PLUMBING PLAN
 3/16" = 1'-0"
 NORTH



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ENGINEERING STRONG COMMUNITIES



12/08/2024	BID ISSUE
11/11/2024	75% OWNER REVIEW
DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

**SEMCO
 EMERGENCY
 OPERATIONS
 CENTER**

SHEET TITLE:
PLUMBING PLAN

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: 11/22/2024
SCALE: AS NOTED		



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PROJECT NO. 1584-0003

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SHEET NO.

P101

PLUMBING FLOOR PLAN
 3/16" = 1'-0"
 NORTH



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ENGINEERING STRONG COMMUNITIES

12/06/2024	BID ISSUE
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

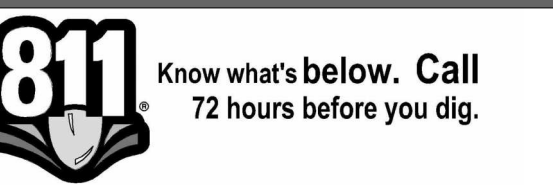
SEMCO EMERGENCY OPERATIONS CENTER

SHEET TITLE:

GAS LINE FLOOR PLAN

CLIENT: SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
Author	Checker	12/21/23
SCALE: AS NOTED		



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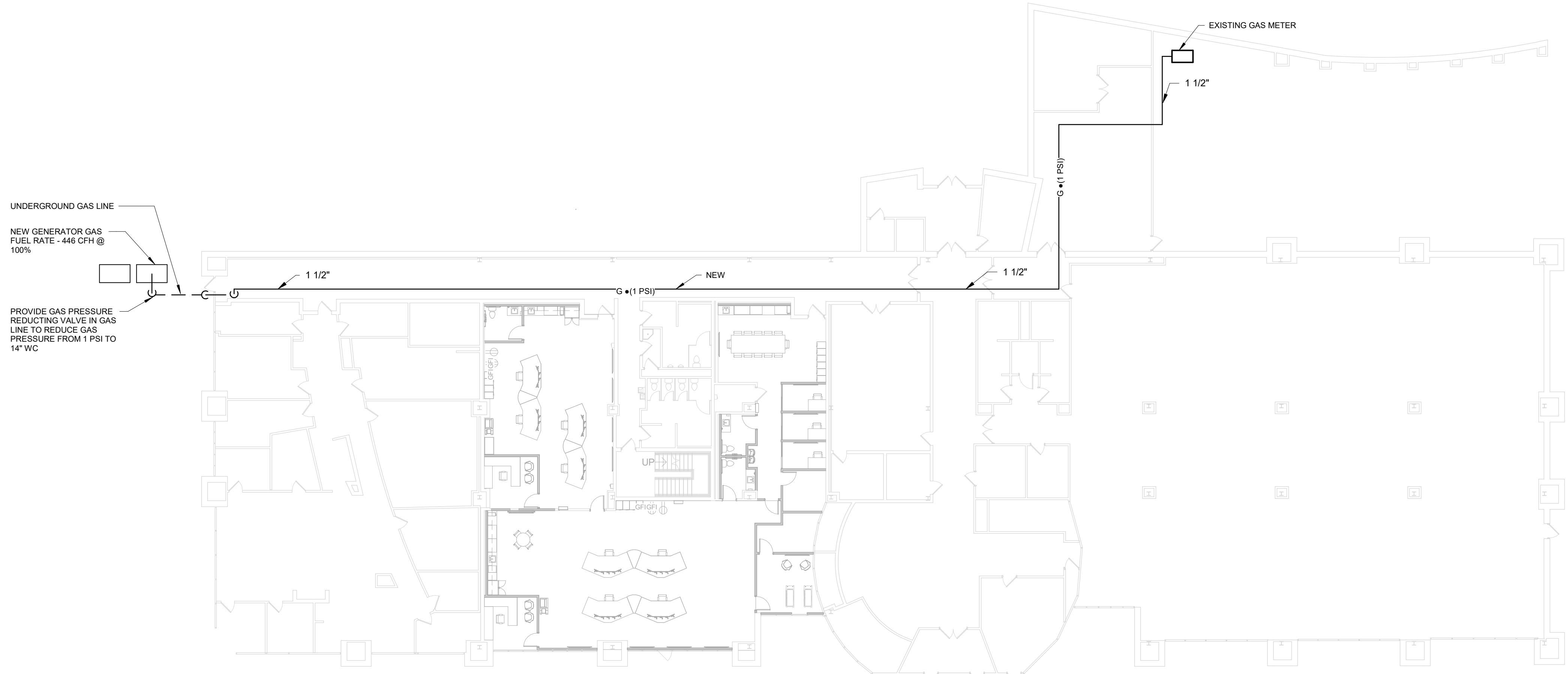
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PROJECT NO. 1584-0003

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SHEET NO.

P102



UNDERGROUND GAS LINE

NEW GENERATOR GAS
FUEL RATE - 448 CFH @
100%

PROVIDE GAS PRESSURE
REDUCTING VALVE IN GAS
LINE TO REDUCE GAS
PRESSURE FROM 1 PSI TO
14" WC

1 GAS LINE FLOOR PLAN

P102 1/16" = 1'-0"

NOTE: GAS CONNECT DOWNSTREAM OF GAS METER



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ENGINEERING STRONG COMMUNITIES

GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES	
1	EXISTING RECEPTACLES ASSOCIATED WITH COUNTERS BEING REMOVED AND WALLS BEING DEMOLISHED SHALL BE REMOVED. REMOVE CONDUIT AND WIRING BACK TO SOURCE. SET BREAKERS TO OFF AND UPDATE PANEL SCHEDULE.
2	EXISTING PENDANT MOUNTED FLUORESCENT LIGHT FIXTURES, EXIT SIGNS TO BE REMOVED COMPLETE. REMOVE CONDUIT, WIRING, AND SWITCHING BACK TO SOURCE. RETAIN BREAKERS AS SPARE. CIRCUITS MAYBE REUSED FOR NEW LIGHTING CIRCUITS, REFER TO NEW LIGHTING PLAN FOR ADDITIONAL INFORMATION.
3	EXISTING RECESSED MOUNTED FLUORESCENT LIGHT FIXTURES, EXIT SIGNS TO BE REMOVED COMPLETE. REMOVE CONDUIT, WIRING, AND SWITCHING BACK TO SOURCE. RETAIN BREAKERS AS SPARE. CIRCUITS MAYBE REUSED FOR NEW LIGHTING CIRCUITS, REFER TO NEW LIGHTING PLAN FOR ADDITIONAL INFORMATION.
4	EXISTING RECESSED FLUORESCENT DOWNLIGHTS TO BE REMOVED COMPLETE. CONDUIT AND WIRING BACK TO SOURCE.
5	EXISTING ELECTRICAL PANELS, UPS SYSTEM AND COOLING SYSTEM TO BE REMOVED. REFER TO ONE-LINE DIAGRAM SHEET E300 FOR ADDITIONAL INFORMATION.
6	EXISTING FIRE ALARM DEVICE TO BE REMOVED COMPLETE. MAINTAIN CIRCUIT CONNECTION TO OTHER DEVICES TO REMAIN.
7	ALL EXISTING WALL MOUNTED EMERGENCY LIGHTING UNITS TO BE REMOVED COMPLETE, REMOVE CONDUIT AND WIRING BACK TO SOURCE.

12/06/2024	BID ISSUE
11/11/2024	OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:
**FIRST FLOOR
DEMOLITION PLAN**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: Checker	DATE: 09/09/22
SCALE: AS NOTED		

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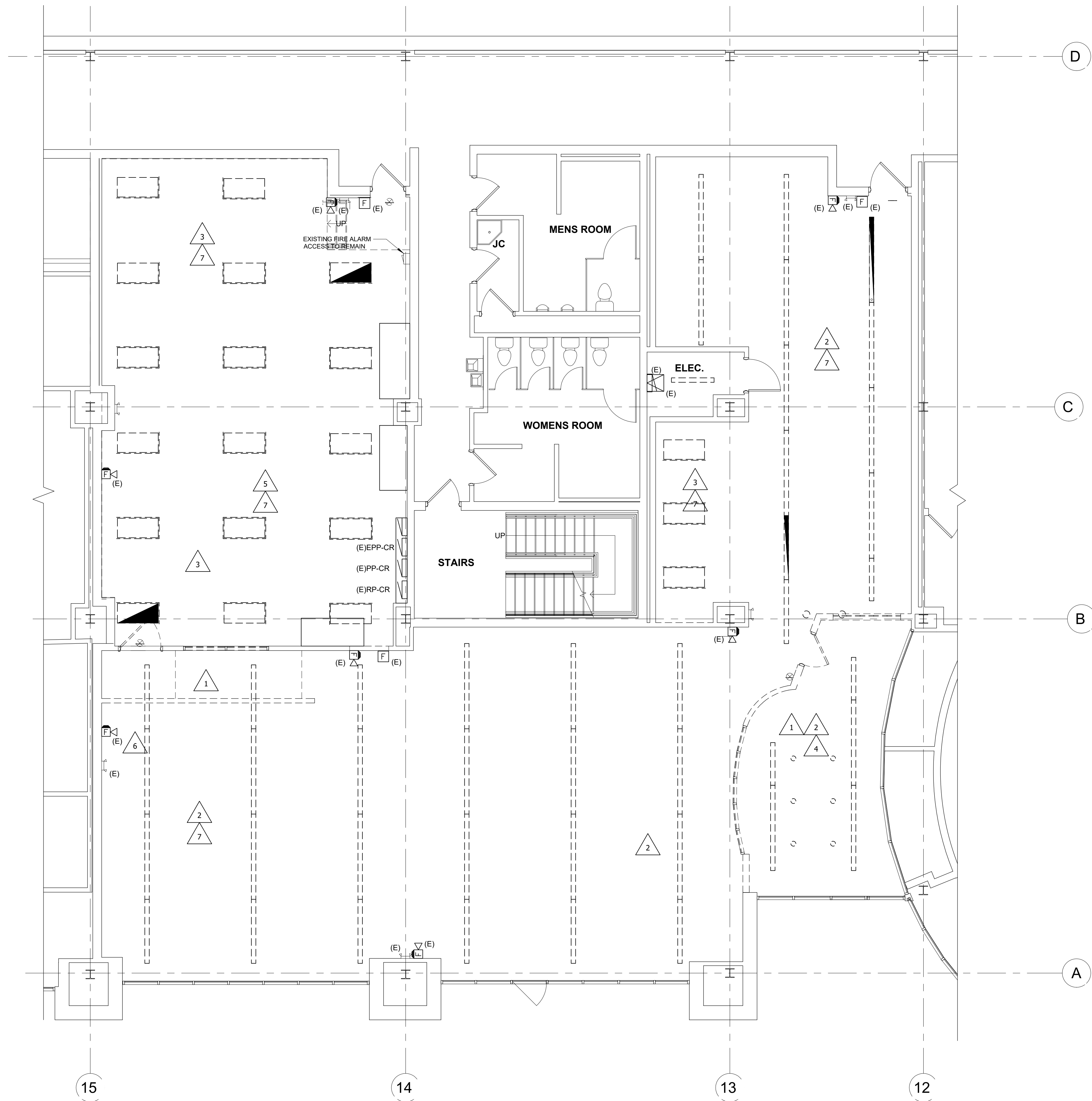
PROJECT NO.
1584-0003

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SHEET NO.

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FIRST FLOOR DEMOLITION PLAN
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NORTH



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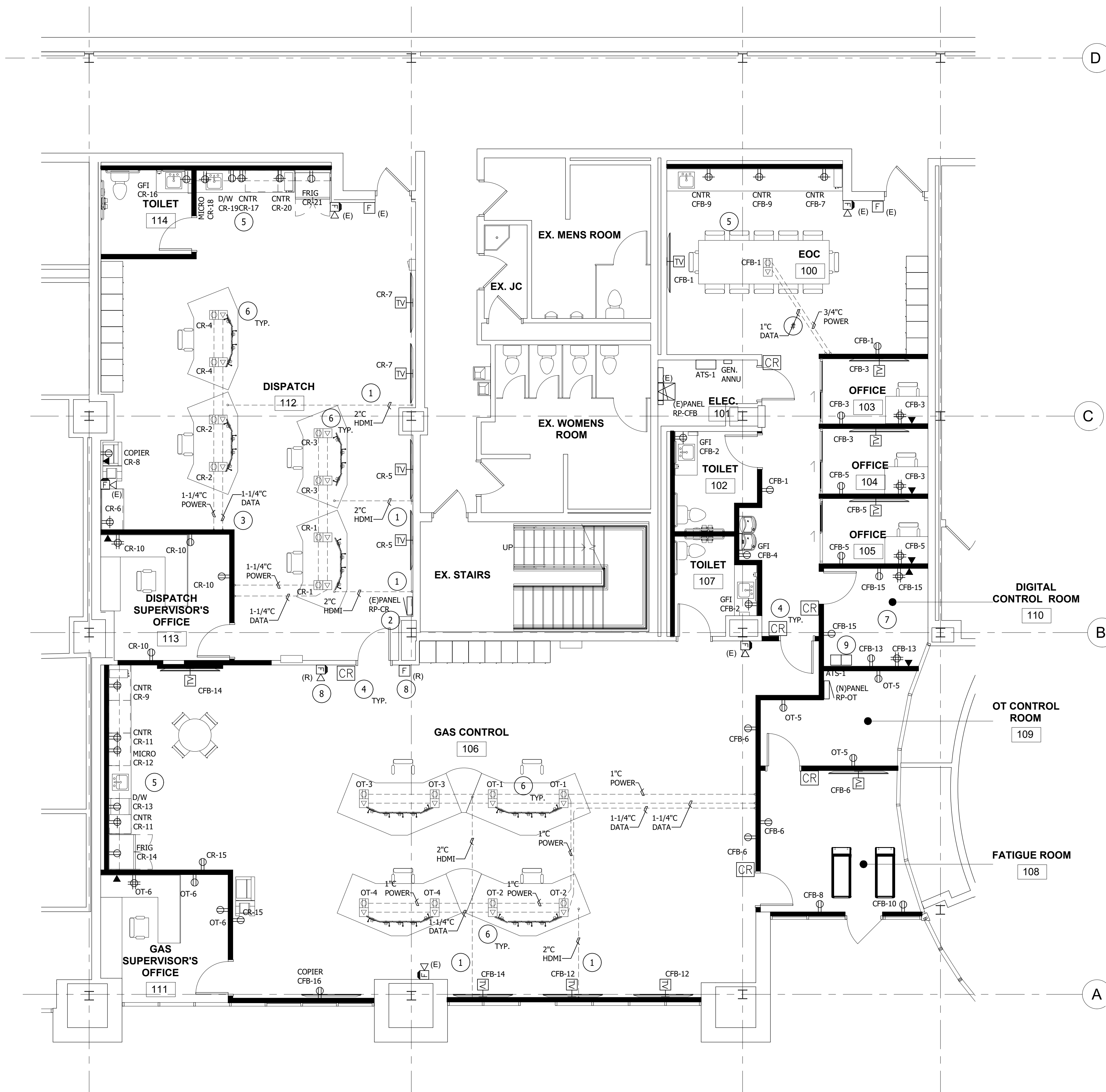
CIVIL ENGINEERS SURVEYORS ARCHITECTS

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ENGINEERING STRONG COMMUNITIES

ELECTRICAL GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" C ONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
H	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.

NEW WORK KEYED NOTES	
1	2" UNDERGROUND CONDUIT WITH PULL STRING FOR HDMI CABLE CONNECTION. STUB UP 6" OM DESK END AND 4FT ON TV SIDE. COORDINATE EXACT LOCATIONS IN THE FIELD WITH DATA CONTRACTOR.
2	NEW LOCATION OF EXISTING PANEL RP-CR, REFER TO ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
3	STUB UP DATA CONDUIT TO 6" ABOVE CEILING. POWER CONDUIT TO RUN TO NEXT JUNCTION BOX ABOVE CEILING AND CONNECT TO CIRCUIT SHOWN.
4	ACCESS CONTROL/CARD READER LOCATION, REFER TO DETAIL ON SHEET E200. COORDINATE ALL WORK WITH ACCESS DOOR SUPPLIER. NEW READERS TO BE CONNECTED TO EXISTING SYSTEM. PROVIDE POWER SUPPLY AS REQUIRED. COORDINATE ALL WORK AND PROGRAMING WITH OWNER.
5	ALL RECEPTACLES AT KITCHENETTE AREA SHALL BE GFIC TYPE OR GFIC PROTECTED. ALL RECEPTACLES SHALL BE ACCESSIBLE PER CODE.
6	FLOOR BOXES SHALL BE COMBINATION POWER AND DATA TYPE. PROVIDE 2 GANG BOXES COMPLETE WITH 20A RECEPTACLES, AND COVER PLATES. DATA OUTLETS AND DATA WIRING SHALL BE PROVIDED BY DATA CONTRACTOR. CAT # "LEGRAND 800 SERIES OR EQUAL".
7	VERIFY EXACT MOUNTING HEIGHT OF ALL OUTLETS IN THIS ROOM WITH IT CONTRACTOR PRIOR TO ROUGH-IN.
8	EXISTING FIRE ALARM DEVICE TO BE RELOCATED TO THIS WALL, REFER TO DEMOLITION PLAN FOR ORIGINAL LOCATION.
9	PROPOSED LOCATION OF (2) 20KVA UPS SYSTEMS. ONE 20KVA UPS TO BE PROVIDED BY OWNER, OTHER TO BE PROVIDED BY ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE ALL CONNECTIONS. NEW UPS SHALL MATCH EXISTING. COORDINATE WITH OWNER PRIOR TO PURCHASE.



FIRST FLOOR POWER PLAN
3/16" = 1'-0"
NORTH

12/06/2024	BID ISSUE
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PROJECT NAME:
**SEMCO
EMERGENCY
OPERATIONS
CENTER**

SHEET TITLE:
**FIRST FLOOR
POWER PLAN**

CLIENT:
SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
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PROJECT NO. 1584-0003

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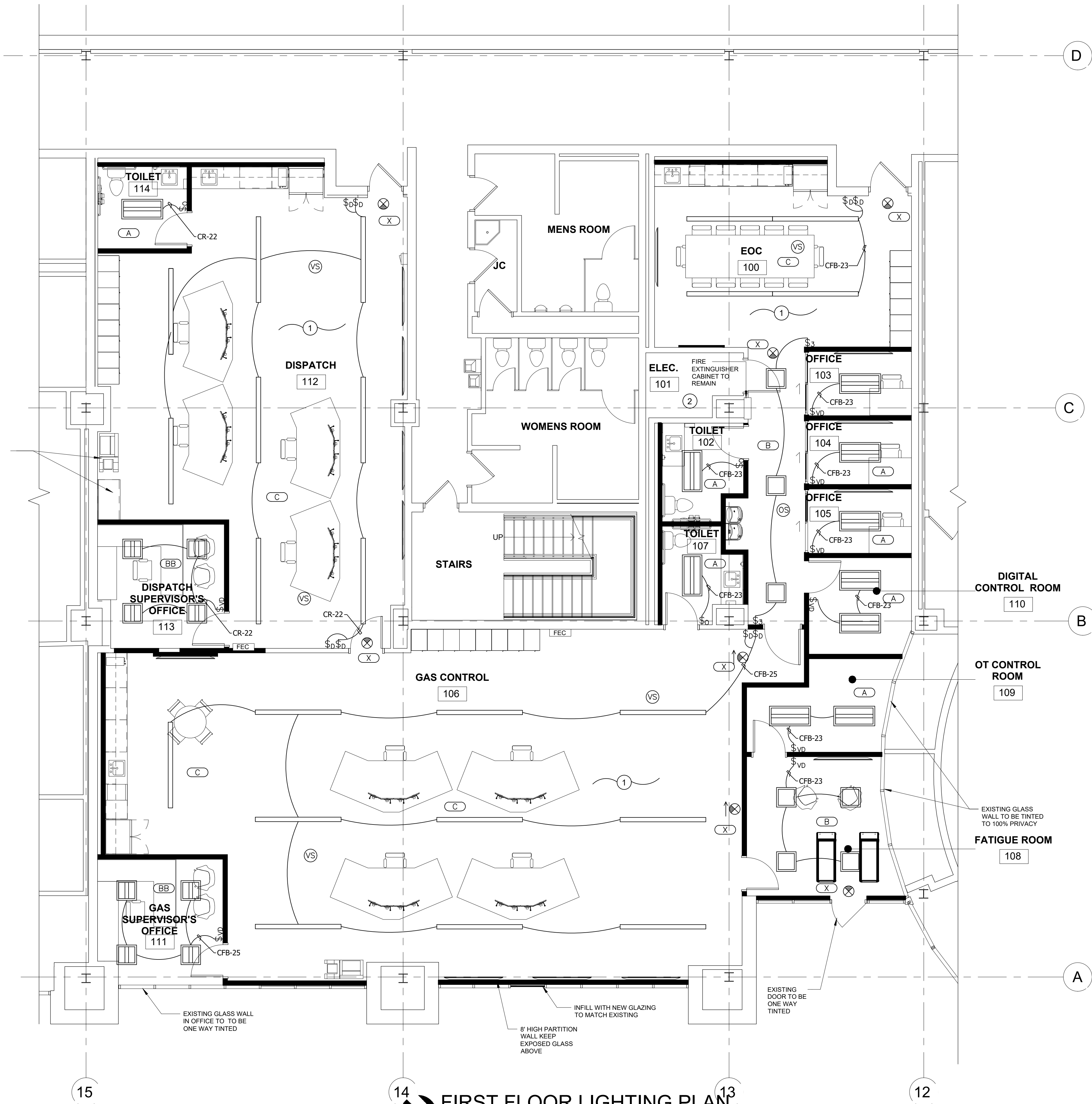
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ENGINEERING STRONG COMMUNITIES

LIGHTING GENERAL NOTES	
A	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
B	ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 120'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. E.C. SHALL FIELD VERIFY ALL LENGTHS OF FEEDERS
C	SEE LIGHT FIXTURE SCHEDULE SHEET E00. ALL ELECTRICAL DEVICES ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED.
D	WHERE MORE THEN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" C CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED

# NEW WORK KEYED NOTES	
1	FIXTURES TO BE PENDANT MOUNTED AT 8'-6" AFF TO BOTTOM OF FIXTURE, AND CONTROLLED THROUGH CEILING MOUNTED VACANCY SENSOR AND DIMMER WALL SWITCHES AS SHOWN. ONE SWITCH TO CONTROL UPLIGHTS, OTHER TO CONTROL DOWN LIGHTS.
2	EXISTING LIGHT FIXTURE IN THIS ROOM TO REMAIN.



FIRST FLOOR LIGHTING PLAN

3/16" = 1'-0"
NOTE: VERIFY ALL DIMENSION IN FIELD



12/06/2024	BID ISSUE
11/11/2024	OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
SEMCO EMERGENCY OPERATIONS CENTER

SHEET TITLE:
FIRST FLOOR LIGHTING PLAN

CLIENT:
SEMCO ENERGY GAS COMPANY

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SHEET NO. **E102**



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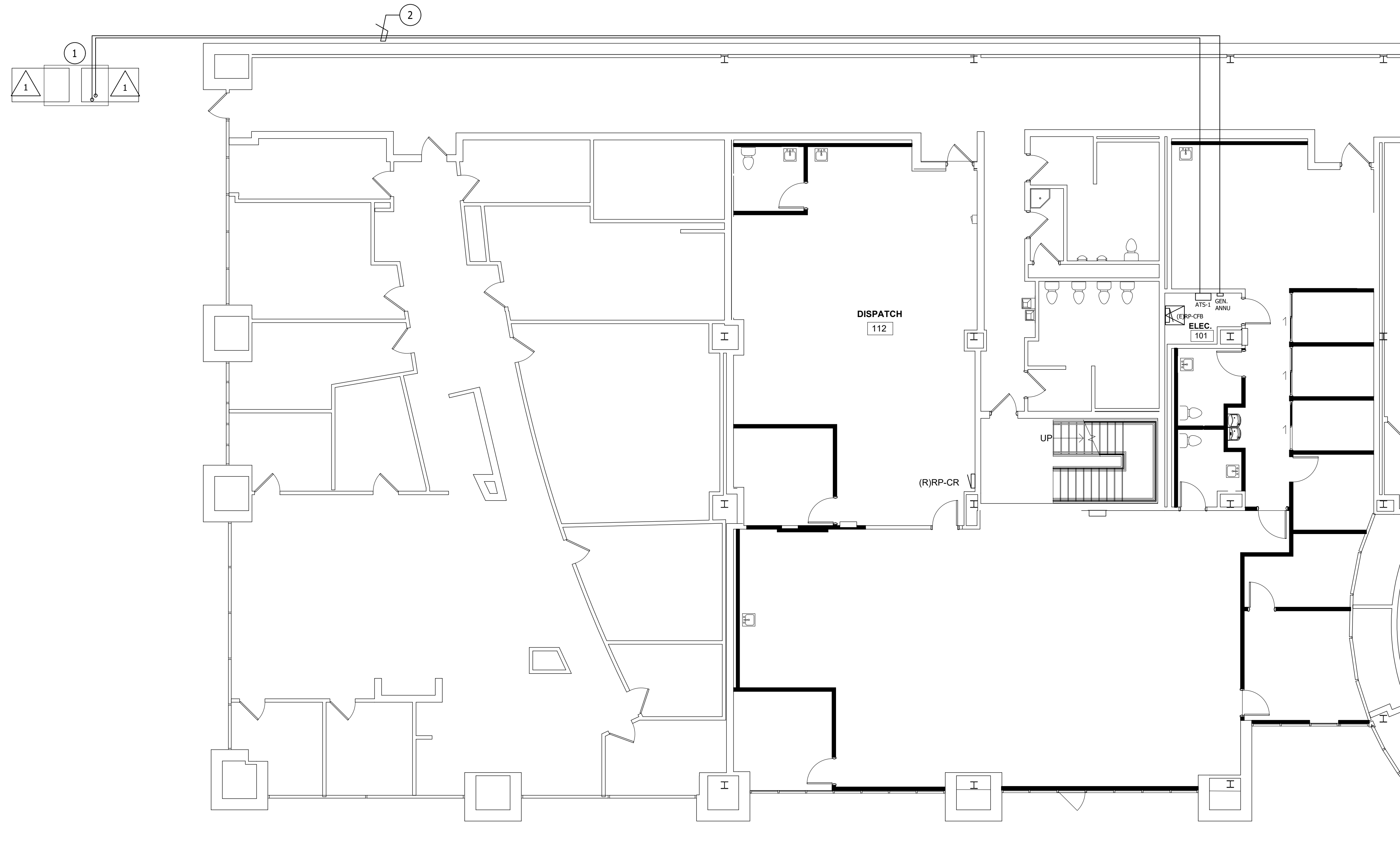
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ELECTRICAL GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" C ONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
H	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.

DEMOLITION KEYED NOTES	
X	EXISTING CONDENSING UNIT BEING REMOVED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR TO MAKE SAFE, DISCONNECT AND REMOVE CONDUIT AND WIRING BACK TO PANEL PP-CR IN DISPATCH ROOM 112.

NEW WORK KEYED NOTES	
#	NEW GENERATOR TO BE INSTALLED IN PLACE OF CONDENSING UNITS BEING REMOVED. PROVIDE NEW PAD, CONDUIT AND WIRING AS DETAILED IN ONE-LINE DIAGRAM SHEET E300 AND DETAIL SHEET E200. COORDINATE EXACT ROUTING IN THE FIELD.
1	POSSIBLE ROUTING FOR POWER AND DATA CONDUITS FROM NEW GENERATOR LOCATION TO ATS AND REMOTE ANNUNCIATOR.



1 ELECTRICAL SITE PLAN
E103 1/8" = 1'-0"

12/06/2024	BID ISSUE
11/11/2024	OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
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SHEET TITLE:
**ELECTRICAL SITE
PLAN**

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SEMCO ENERGY GAS COMPANY

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Author	Checker	12/21/23
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1584-0003

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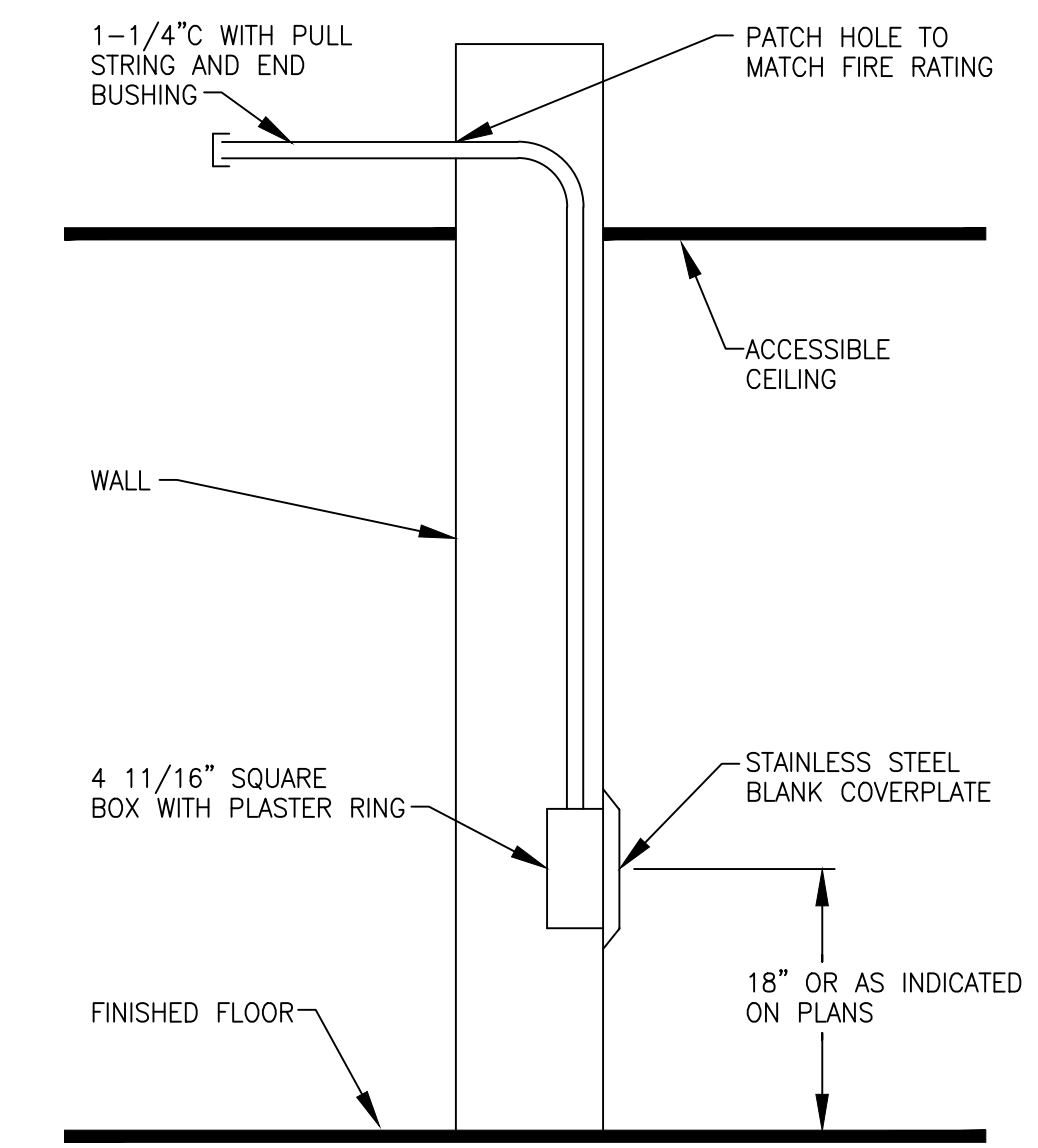
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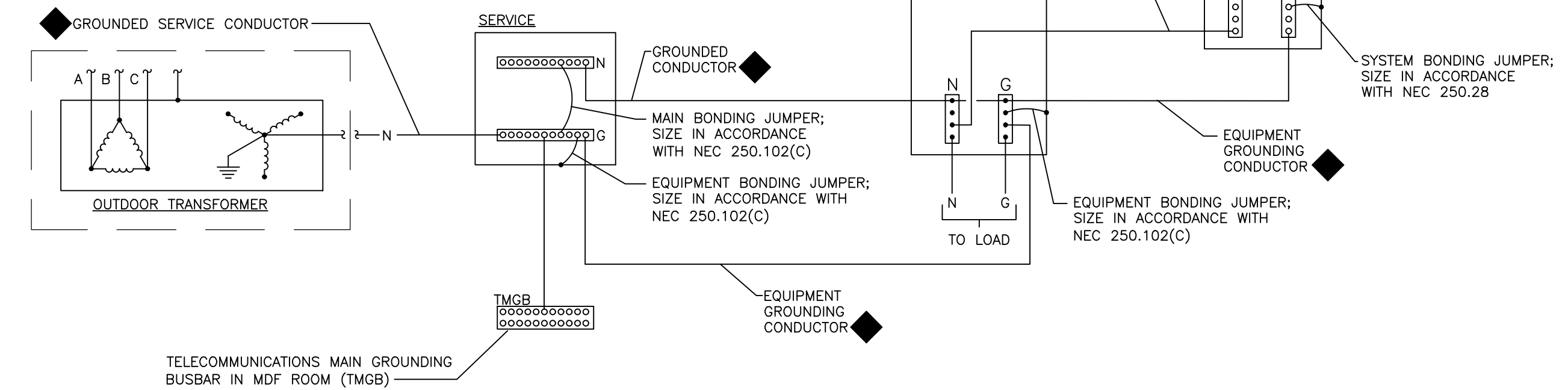


TELE/DATA DETAIL

NO SCALE

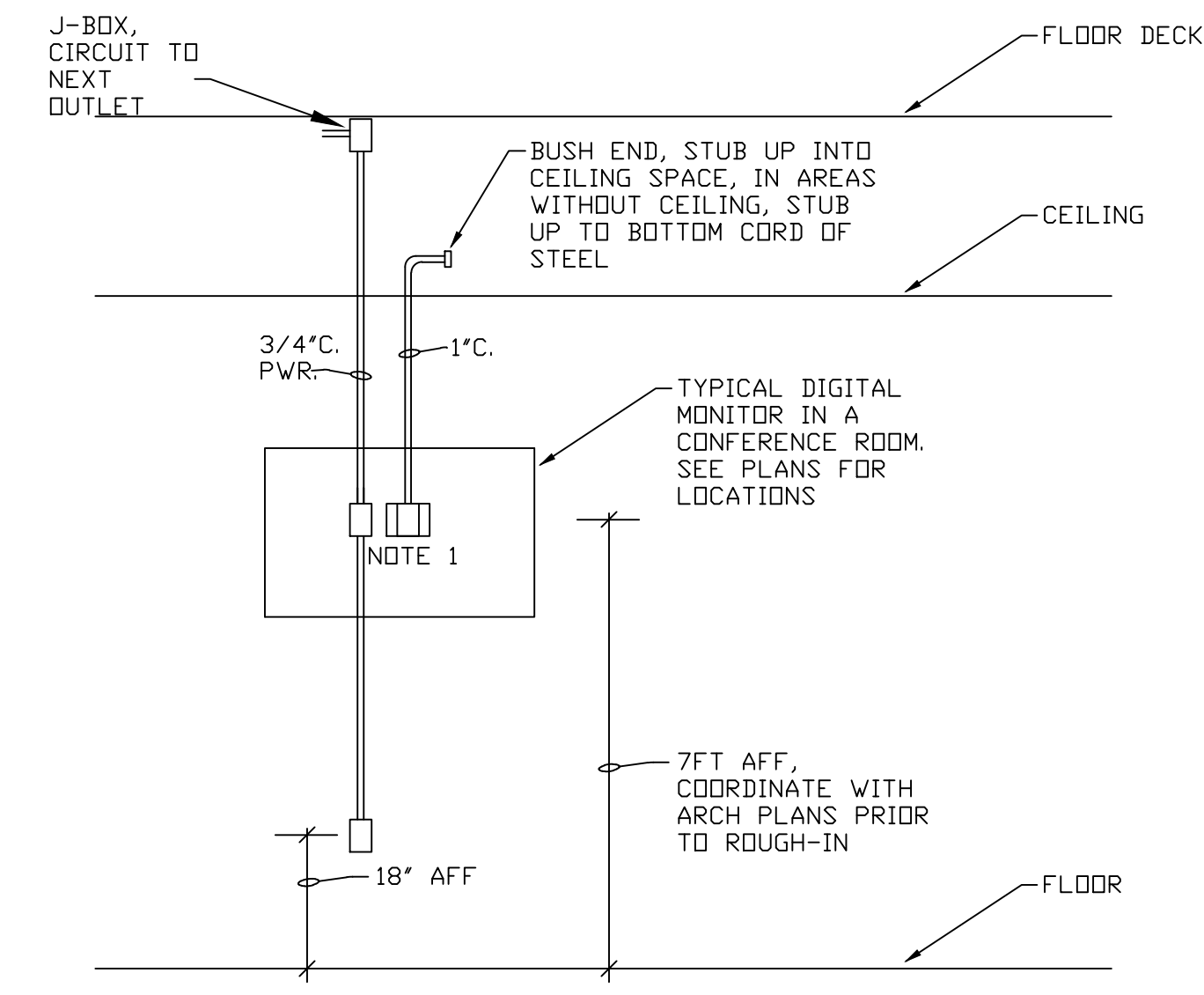
KEY NOTES

- INSTALL GROUNDING ELECTRODE CONDUCTOR IN SCHEDULE 40 PVC CONDUIT. SIZE CONDUCTOR IN ACCORDANCE WITH NEC TABLE 250.66.
- SUPPLY SIDE BONDING JUMPER; SIZE IN ACCORDANCE WITH NEC TABLE 250.66 AND NEC ARTICLES 250.28(D) AND 250.102(C).
- GROUND GRID RESISTANCE SHALL BE 5 OHMS OR LESS. PROVIDE ADDITIONAL GROUND RODS AS REQUIRED.
- MAKE CONNECTION WITHIN 5 FEET OF WATER SERVICE ENTRANCE. IF METAL UNDERGROUND WATER PIPE IS NOT AVAILABLE, THE PRIMARY GROUNDING ELECTRODE SHALL BE THE CONCRETE ENCASED ELECTRODE.
- SEE ONE LINE DIAGRAM FOR CONDUCTOR SIZE.



4-WIRE ELECTRICAL SERVICE AND GENERATOR WITH 3-POLE TRANSFER SWITCH GROUNDING DETAIL

NO SCALE

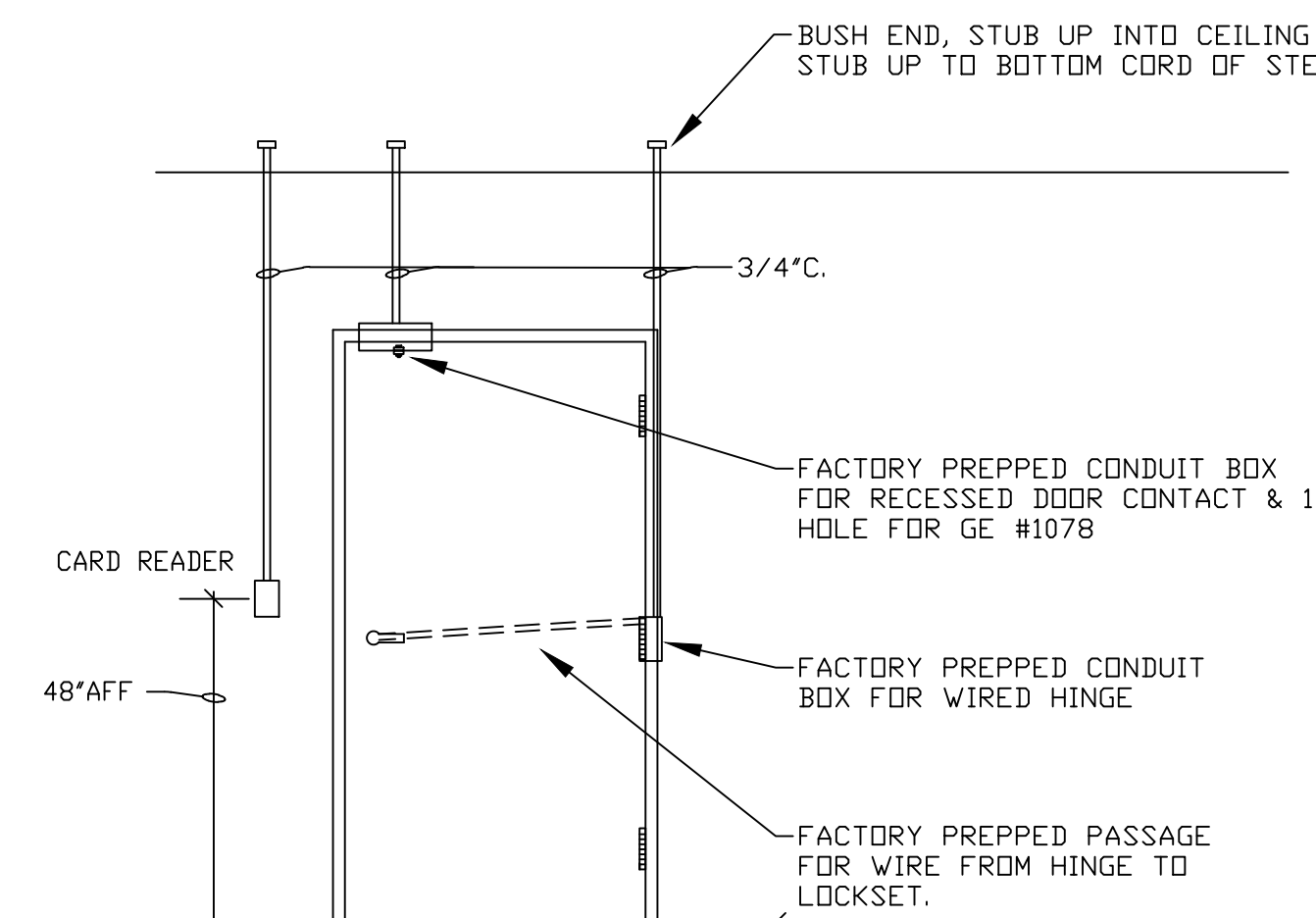


DIGITAL MONITOR ROUGH-IN DETAIL

NO SCALE

NOTES:

- CONFIRM ALL JUNCTION BOX AND CONDUIT REQUIREMENTS WITH OWNER'S IT REPRESENTATIVE PRIOR TO ROUGH-IN.
- PROVIDE SINGLE GANG BOX FOR POWER, 2 GANG BOX WITH SINGLE GANG OPENING FOR CABLE/DATA.

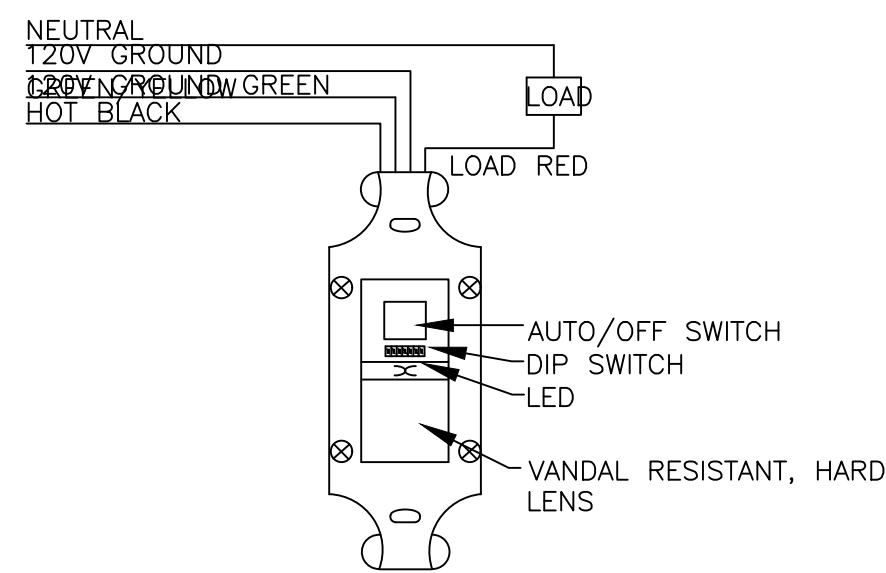


NOTES:

- REFER TO DOOR SCHEDULE AND HARDWARE SPECIFICATIONS FOR EXACT LOCKING STYLE USED.
- COORDINATE ALL WORK WITH ARCHITECTURAL TRADES AND SECURITY CONTRACTOR PRIOR TO ROUGH-IN. IN MANY CASES DOOR IS ADJACENT TO GLASS WALL. ALL WIRING SHALL BE CONCEALED.
- DOORS IN THE PATH OF EGRESS MUST BE UNLOCKED DURING A FIRE ALARM CONDITION. PROVIDE FIRE ALARM CONTROL MODULE AND INTERFACE WITH DOOR LOCKING SYSTEM.

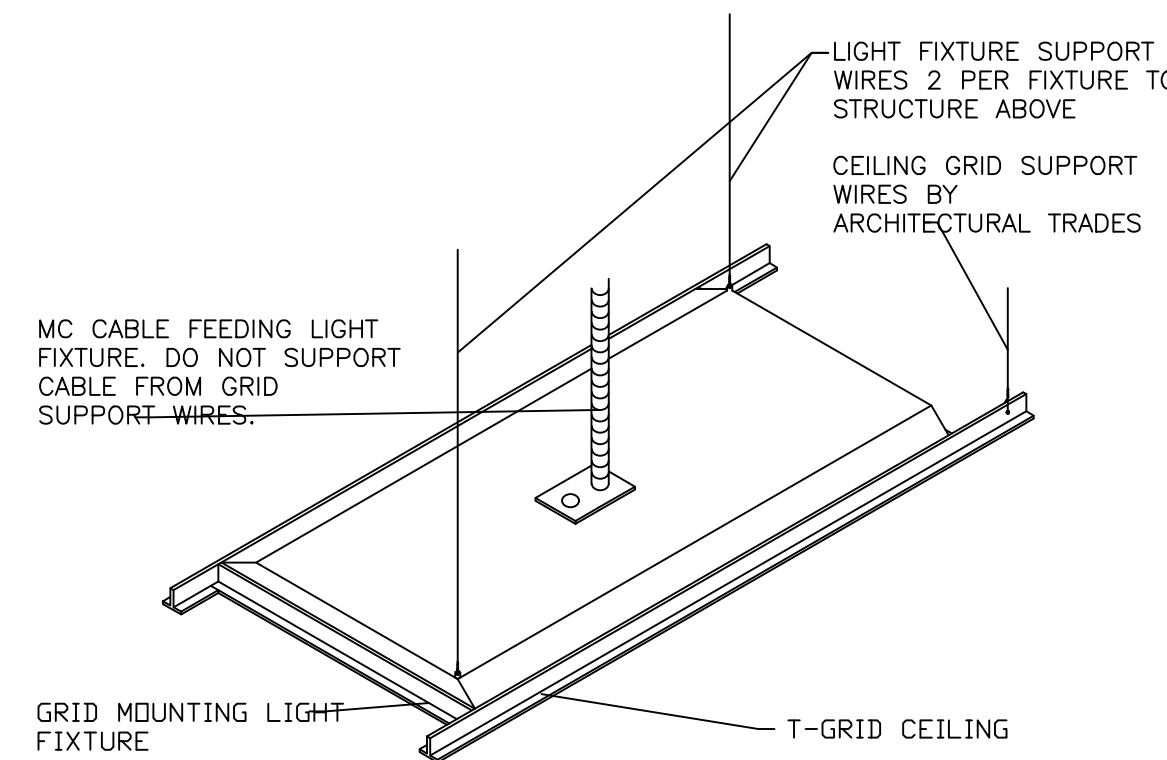
TYPICAL CARD READER RACEWAY DETAIL

NO SCALE



OFFICE VACANCY SENSOR SCHEMATIC

NO SCALE

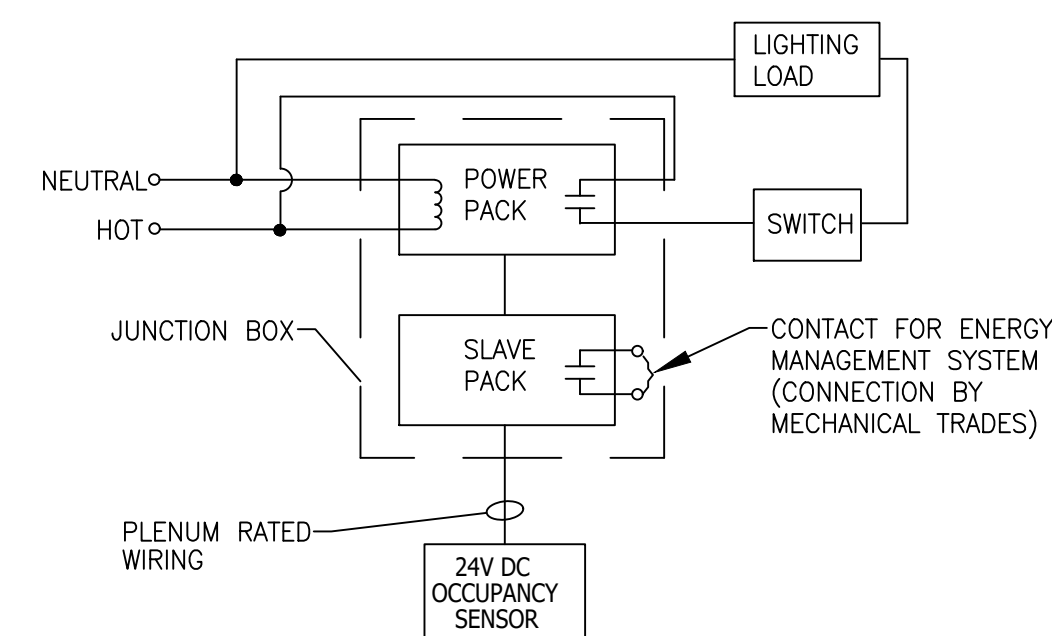


T-GRID FIXTURE MOUNTING DETAIL

NO SCALE

ELECTRICAL FIXTURES

- PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
- TANDEM FIXTURES MAY UTILIZE COMMON WIRES.



CEILING MOUNTED VACANCY/OCCUPANCY SENSOR DETAIL

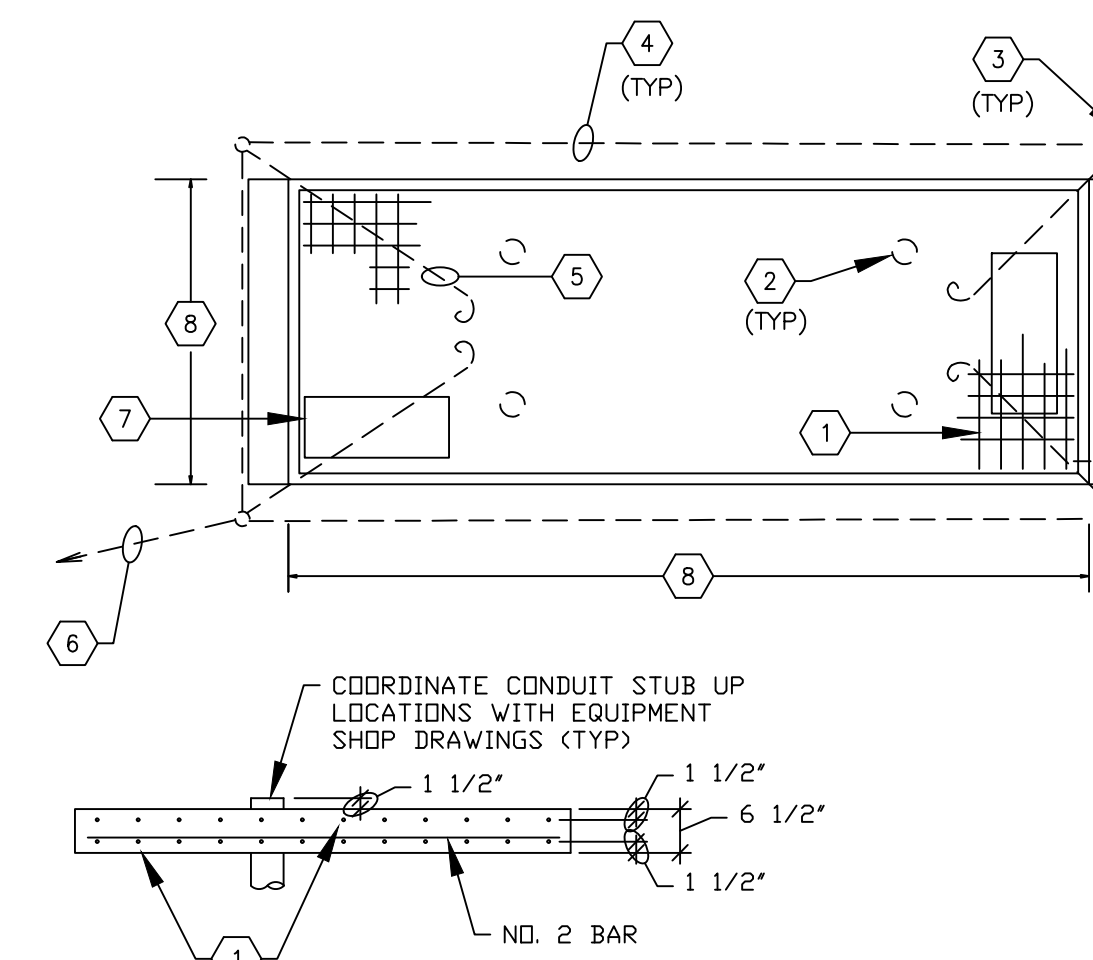
NO SCALE

GENERAL NOTES

- EQUIPMENT DIMENSIONS INDICATED ARE BASED ON TYPICAL EQUIPMENT DIMENSIONS. PRIOR TO INSTALLATION OR PAD CONSTRUCTION ELECTRICAL CONTRACTOR SHALL SUBMIT FOR APPROVAL A DIMENSIONED PAD LAYOUT DRAWING BASED ON EQUIPMENT SHOP DRAWING DIMENSIONS. SUBMIT PAD LAYOUT DRAWING AS A SHOP DRAWING.
- VERIFY CONDUIT STUB UP LOCATIONS WITH EQUIPMENT SHOP DRAWINGS PRIOR TO INSTALLATION.
- SWEEPS MUST BE RIGID STEEL, A MINIMUM 36" RADIUS BEND.
- CONCRETE PADS SHALL UTILIZE CONCENTRATION 6 BAGS OF CEMENT PER YARD, COORDINATE ALL WORK WITH ARCHITECTURAL AND STRUCTURAL TRADES.

KEYED NOTES

- #4 RE-STEEL, 2 LAYERS (TYPICAL)
- SUPPORT ROD UNDER GENERATOR RAILS. SEE DETAIL THIS SHEET.
- 10'-0" LONG x 5/8" DIAMETER COPPER GROUND ROD.
- 1#4/0 COPPER GROUND CABLE TO INTERCONNECT GROUND RODS.
- 1#4/0 COPPER GROUND CABLE TO EQUIPMENT FOR GROUNDING.
- 1#4/0 COPPER GROUND TO CONNECT TO ADJACENT SERVICE TRANSFORMER GROUNDING SYSTEM.
- CONFIRM EXACT CONDUIT STUB UP LOCATION(S) WITH GENERATOR MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH-IN.
- CONFIRM EXACT GENERATOR SIZE AND ASSOCIATED CONCRETE PAD WITH GENERATOR MANUFACTURER PRIOR TO ROUGH IN.



TYPICAL SERVICE EQUIPMENT CONCRETE PAD SECTION DETAIL

NO SCALE

GENERATOR PAD DETAIL

SCALE: N.T.S.

DETAIL OF BRANCH CIRCUIT NUMBER ON RECEPTACLE PLATE

NO SCALE

12/06/2024	BID ISSUE
11/11/2024	DD OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

SEMCO EMERGENCY OPERATIONS CENTER

SHEET TITLE:

ELECTRICAL DETAILS

CLIENT:

SEMCO ENERGY GAS COMPANY

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DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
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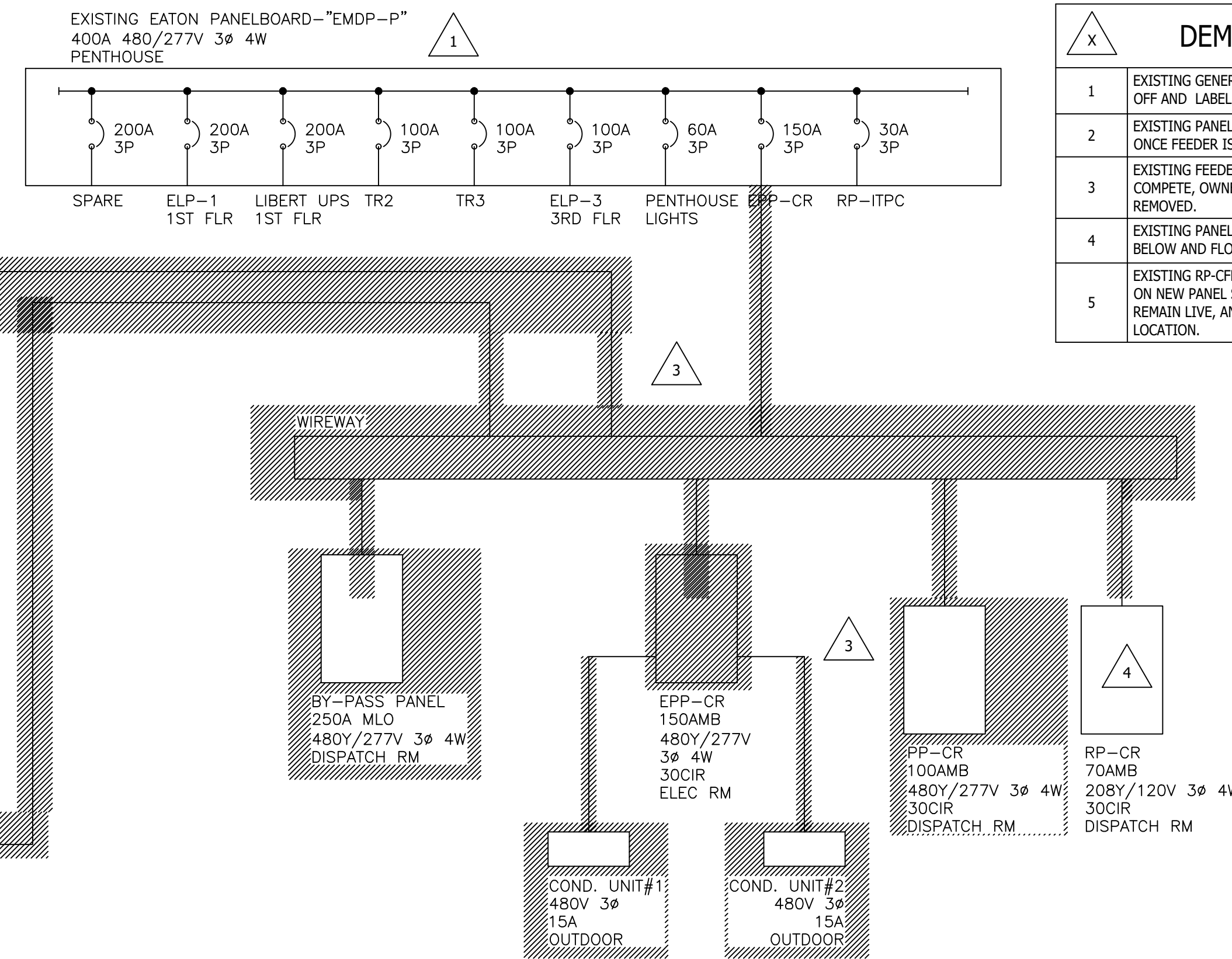
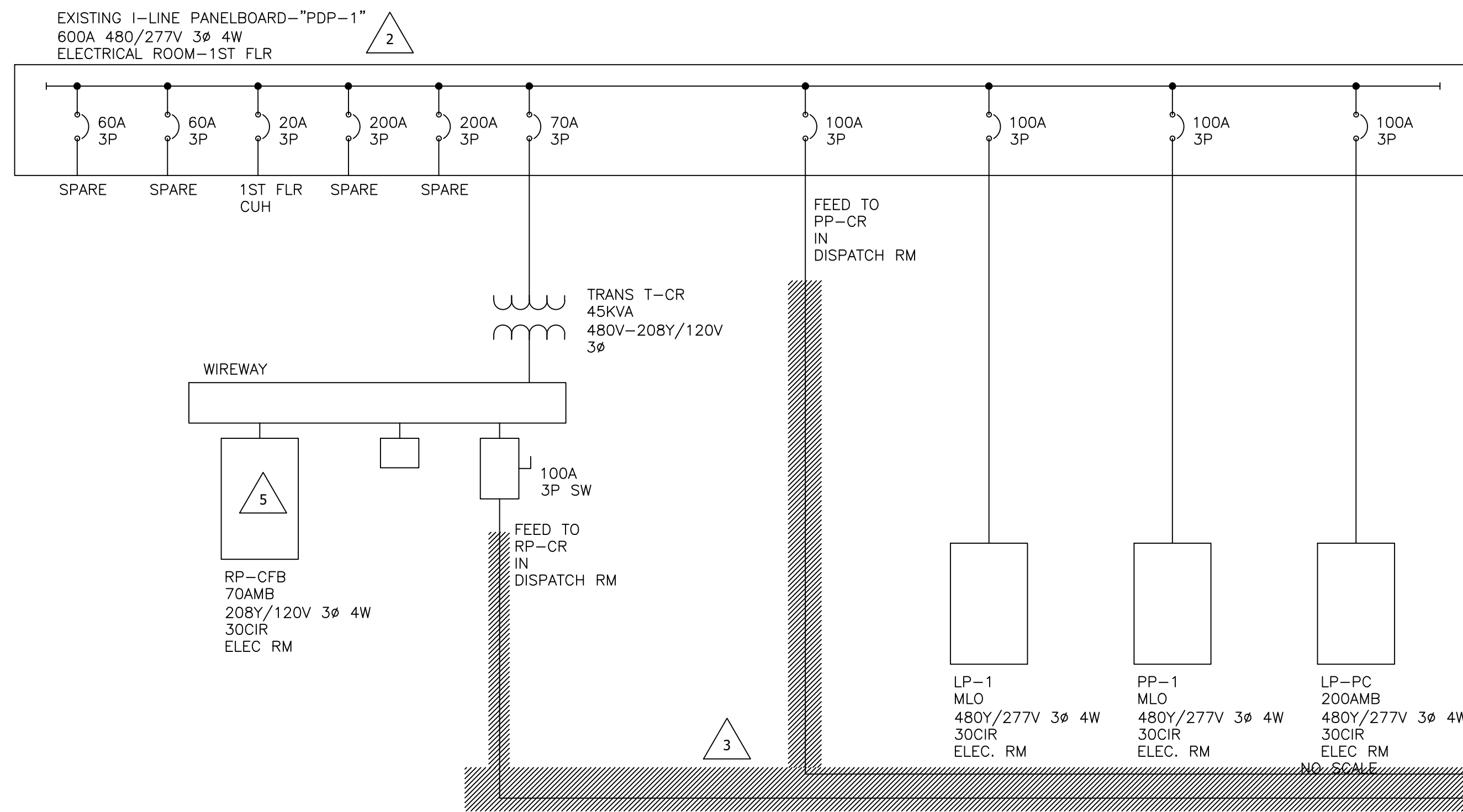
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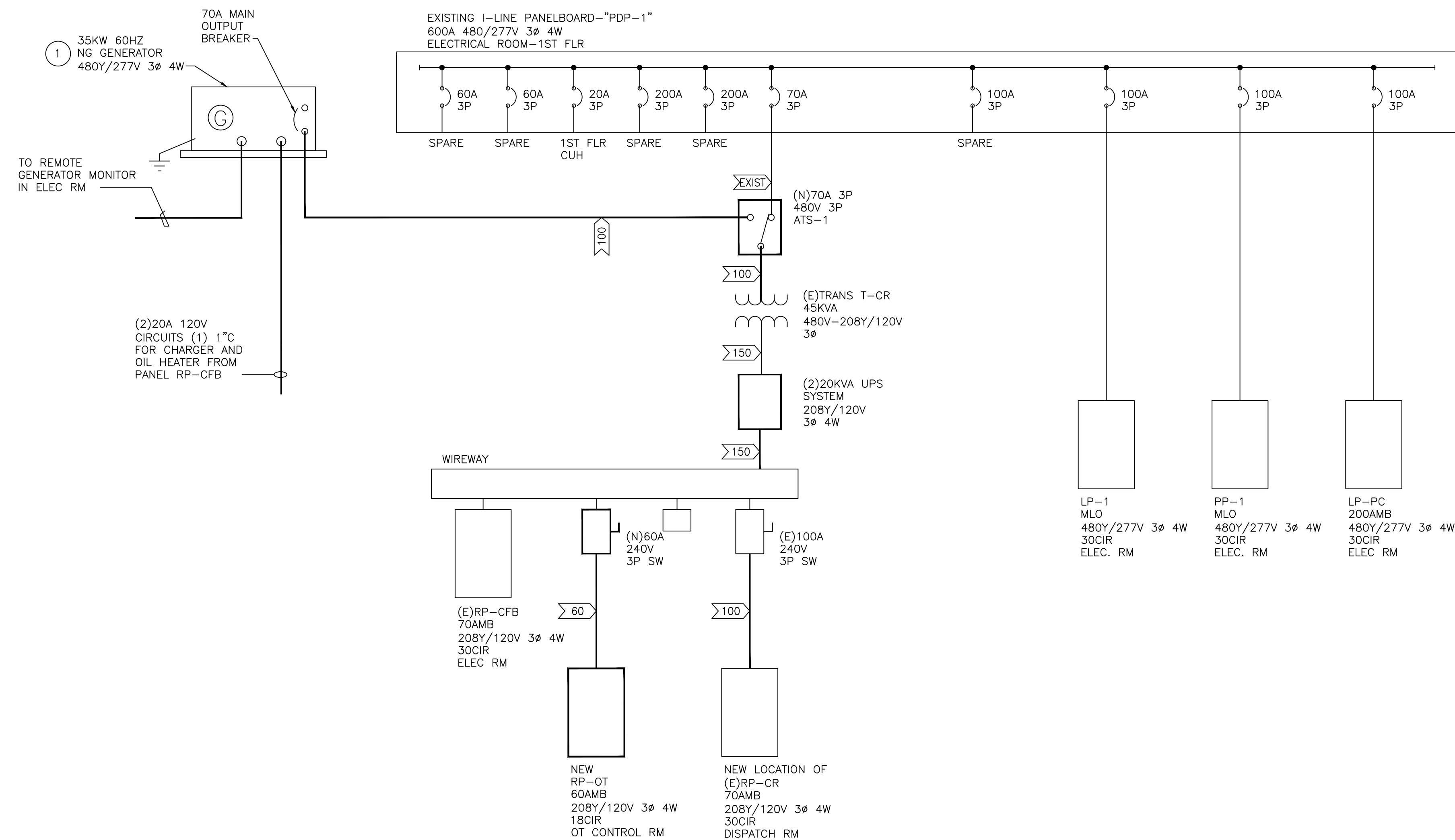
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DEMOLITION KEYED NOTES	
1	EXISTING GENERATOR PANEL LOCATED IN THE PENTHOUSE TO REMAIN. TURN OFF AND LABEL BREAKER AS SPARE ONCE FEEDER IS REMOVED.
2	EXISTING PANELBOARD TO REMAIN. TURN OFF AND LABEL BREAKER AS SPARE ONCE FEEDER IS REMOVED.
3	EXISTING FEEDER AND/OR PANELBOARD SHOWN AS HACHED TO BE REMOVED COMPLETE, OWNER HAS FIRST RIGHT OF REFUSAL FOR EQUIPMENT BEING REMOVED.
4	EXISTING PANELBOARD RP-CR TO BE RELOCATED, SEE NEW ONE-LINE DIAGRAM BELOW AND FLOOR PLAN FOR NEW LOCATION.
5	EXISTING RP-CFB PANEL TO REMAIN. REWORK AND UPDATE PANEL AS SHOWN ON NEW PANEL SCHEDULE. VERIFY AND UPDATE ALL EXISTING CIRCUIT TO REMAIN LIVE, AND PROVIDE NEW PANEL SCHEDULE INCLUDING LOAD TYPE AND LOCATION.



PARTIAL ONE-LINE DIAGRAM-DEMOLITION
NO SCALE



PARTIAL ONE-LINE DIAGRAM-NEW WORK
NO SCALE

FEEDER (AMPS)	COND. SIZE	FEEDER AND CONDUIT SIZES
EXIST		EXISTING FEEDER TO REMAIN
>60	6	1", 4#6 & 1#8 GRD.
>100	3	1-1/4", 4#3 & 1#6 GRD.
>150	1/0	1-1/2", 4#1/0 & 1#6 GRD.

	CONNECTED LOAD		DEMAND LOAD	
	KVA	AMPERAGE	KVA	AMPERAGE
PANEL RP-CR	17.30 KVA	39.3	14.15 KVA	31.7
PANEL RP-CFB	16.52 KVA	40.7	14.65 KVA	32.7
PANEL RP-OT	8.70 KVA	24.2	8.70 KVA	24.2
TOTAL DEMAND LOAD:			37.5KVA	104.2A
TOTAL ELECTRICAL SERVICE:	104.2X1.25=130.2A		VOLTAGE: 208Y/120V 3Ø 4W SERVICE	

NEW WORK KEYED NOTES	
1	NEW NATURAL GAS GENERATOR SET. 35KW, 44KVA, 60HZ 480/277V 3Ø, BY GENERAC "CAT #56035". REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION AND SPECS FOR INSTALLATION REQUIREMENT.

12/06/2024	BID ISSUE
11/11/2024	OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
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SHEET TITLE:

ONE-LINE DIAGRAMS

CLIENT:
SEMCO ENERGY GAS COMPANY

PRELIMINARY	CONSTRUCTION	RECORD
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Panel Designation: (E)RP-CFB															Main: 70			P-P Voltage: 208		
Panel Location: ELEC RM 101															Bussing: 100			P-N Voltage: 120		
Fed From: See One-Line Diagram															Ground Bus: STANDARD			Phase: 3		
Feeder Size: See One-Line Diagram															Mounting: SURFACE			Wire: 4		
Neutral: 100%															Min SC Interrupting Rating: 10K					
Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prof	CKT	Ø A	Ø B	Ø C	CKT	OC Prof	nonC Load	Cont Load	Recept Load	Light Load	Remarks				
ELEC RM 100	900					20	1	X		2	20			360		TOILET RM 102, 107				
OFFICE RM 103, 104	900					20	3	X		4	20	960				EWC CORRIDOR				
OFFICE RM 104, 105	900					20	5	X		6	20			540		FATIGUE RM 108				
ELEC RM 100 COUNTER	360					20	7	X		8	20			1200		FATIGUE RM 108, TREADMLL				
ELEC RM 100 COUNTER	360					20	9	X		10	20			1200		FATIGUE RM 108, TREADMLL				
SPARE						20	11	X		12	20			720		GAS CONTROL RM 106 TV'S				
DIGITAL RM 110	540					20	13	X		14	20			720		GAS CONTROL RM 106 TV'S				
DIGITAL RM 110	540					20	15	X		16	20			1000		GAS CONTROL RM 106 COPIER				
EXISTING CIRCUITS	540					20	17	X		18	20					EXISTING CIRCUIT				
EXISTING CIRCUITS	540					20	19	X		20	20					EXISTING CIRCUIT				
EXISTING CIRCUITS	540					20	21	X		22	20					EXISTING CIRCUIT				
LIGHTING RM 100-109	1000					20	23	X		24	20					SPARE				
LIGHTING RM 106	1200					20	25	X		26	--					SPACE				
SPACE						--	27	X		28	--					SPACE				
SPACE						--	29	X		30	--					SPACE				

Load Description	Connected Load				Demand Factor	Demand Load			
	ØA	ØB	ØC	Total		ØA	ØB	ØC	Total
Lighting or Continuous Load (Volt-Amps)	1200	0	1000	2200	1.00	1200	0	1000	2200
180VA Receptacle Load (Volt-Amps)	4620	4540	2700	11860	1.00 (First 10kVA) 0.50 (> 10kVA)	3895	3828	2277	10000
Continuous Load (Volt-Amps)	0	0	0	0		0	0	0	0
Non-Continuous Load (Volt-Amps)	0	960	0	960		0	768	0	768
Total Load (kVA)	5.82	5.50	3.70	15.02	125% of Light/Cont and Recept (<10kVA) load plus other load	5.46	4.95	3.49	13.90
Total Ampacity (Amps)	48.5	45.8	30.8	41.7	<--- per NEC Article 215.2 --->	45.5	41.3	29.1	38.6
Minimum Feeder Sizing (Amps)	59.1	53.8	37.7	50.2		56.1	49.2	35.9	47.1

Panel Designation: (E)RP-CR															Main: 70			P-P Voltage: 208		
Panel Location: ELEC RM 101															Bussing: 100			P-N Voltage: 120		
Fed From: See One-Line Diagram															Ground Bus: STANDARD			Phase: 3		
Feeder Size: See One-Line Diagram															Mounting: SURFACE			Wire: 4		
Neutral: 100%															Min SC Interrupting Rating: 10K					
Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prof	CKT	Ø A	Ø B	Ø C	CKT	OC Prof	nonC Load	Cont Load	Recept Load	Light Load	Remarks				
DISPATCH RM 112 FLOOR BOXES	900					20	1	X		2	20			900		DISPATCH RM 112 FLOOR BOXES				
DISPATCH RM 112 FLOOR BOXES	900					20	3	X		4	20			900		DISPATCH RM 112 FLOOR BOXES				
DISPATCH RM 112 TV'S	720					20	5	X		6	20			360		DISPATCH RM 112 COUNTER				
DISPATCH RM 112 TV'S	720					20	7	X		8	20			1000		DISPATCH RM 112 COPIER				
GAS CONTROL RM 106 COUNTER	360					20	9	X		10	20			900		DISPATCH OFFICE RM 113				
GAS CONTROL RM 106 COUNTER	360					20	11	X		12	20			1500		GAS CONTROL RM 106 MCROWAVE				
GAS CONTROL RM 106 DISHWASHER	960					20	13	X		14	20			960		GAS CONTROL RM 106 FRIG				
GAS CONTROL RM 106	360					20	15	X		16	20			360		TOILET RM 114				
DISPATCH RM 112 COUNTER	360					20	17	X		18	20			1500		DISPATCH RM 112 MCROWAVE				
DISPATCH RM 112 DISHWASHER	960					20	19	X		20	20			360		DISPATCH RM 112 COUNTER				
DISPATCH RM 112 FRIG	960					20	21	X		22	20			1000		LIGHTING RM 112-114				
SPARE						20	23	X		24	20					SPARE				
SPARE						20	25	X		26	20					SPARE				
SPARE						20	27	X		28	--					Space				
SPARE						20	29	X		30	--					Space				

Load Description	Connected Load				Demand Factor	Demand Load			
	ØA	ØB	ØC	Total		ØA	ØB	ØC	Total
Lighting or Continuous Load (Volt-Amps)	0	1000	0	1000	1.00	0	1000	0	1000
180VA Receptacle Load (Volt-Amps)	6760	4740	4800	16300	1.00 (First 10kVA) 0.50 (> 10kVA)	4147	2908	2945	10000
Continuous Load (Volt-Amps)	0	0	0	0		0	0	0	0
Non-Continuous Load (Volt-Amps)	0	0	0	0		0	0	0	0
Total Load (kVA)	6.76	5.74	4.80	17.30	125% of Light/Cont and Recept (<10kVA) load plus other load	5.45	4.82	3.87	14.15
Total Ampacity (Amps)	56.3	47.8	40.0	48.1	<--- per NEC Article 215.2 --->	45.4	40.2	32.3	39.3
Minimum Feeder Sizing (Amps)	65.0	56.0	46.1	55.7		54.1	48.3	38.4	44.9

Panel Designation: (N)RP-OT															Main: 60			P-P Voltage: 208		
Panel Location: ELEC RM 109															Bussing: 100			P-N Voltage: 120		
Fed From: See One-Line Diagram															Ground Bus: STANDARD			Phase: 3		
Feeder Size: See One-Line Diagram															Mounting: SURFACE			Wire: 4		
Neutral: 100%															Min SC Interrupting Rating: 10K					
Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prof	CKT	Ø A	Ø B	Ø C	CKT	OC Prof	nonC Load	Cont Load	Recept Load	Light Load	Remarks				
GAS CONTROL RM 106 FLOOR BOXES	900					20	1	X		2	20			900		GAS CONTROL RM 106 FLOOR BOXES				
GAS CONTROL RM 106 FLOOR BOXES	900					20	3	X		4	20			900		GAS CONTROL RM 106 FLOOR BOXES				
OT CONTROL RM 109	540					20	5	X		6	20			720		GAS SUPERVISOR OFFICE 111				
SERVER #1 RM 109	1920					20	7	X		8	20			1920		SERVER #2 RM 109				
SPARE						20	9	X		10	20					SPARE				
SPARE						20	11	X		12	20					SPARE				
SPARE						20	13	X		14	20					SPARE				
SPACE						--	15	X		16	--					SPACE				
SPACE						--	17	X		18	--					SPACE				

Load Description	Connected Load				Demand Factor	Demand Load			
	ØA	ØB	ØC	Total		ØA	ØB	ØC	Total
Lighting or Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
180VA Receptacle Load (Volt-Amps)	5640	1800	1260	8700	1.00 (First 10kVA) 0.50 (> 10kVA)	5640	1800	1260	8700
Continuous Load (Volt-Amps)	0	0	0	0		0	0	0	0
Non-Continuous Load (Volt-Amps)	0	0	0	0		0	0	0	0
Total Load (kVA)	5.64	1.80	1.26	8.70	125% of Light/Cont and Recept (<10kVA) load plus other load	5.64	1.80	1.26	8.70
Total Ampacity (Amps)	47.0	15.0	10.5	24.2	<--- per NEC Article 215.2 --->	47.0	15.0	10.5	24.2
Minimum Feeder Sizing (Amps)	58.8	18.8	13.1	30.2		58.8	18.8	13.1	30.2

12/06/2024	BID ISSUE
11/11/2024	OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

SEMCO EMERGENCY OPERATIONS CENTER

SHEET TITLE:

PANEL SCHEDULES

CLIENT:

SEMCO ENERGY GAS COMPANY

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NMA	CHECKED BY: JRA	DATE: OCTOBER 2024
SCALE: AS NOTED		

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

1584-0003

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