

LATRINES & SHOWER RENOVATIONS, BUILDING 233 ST. LOUIS LAMBERT READINESS CENTER BRIDGETON, MISSOURI

ARCHITECTURE &
ENGINEERING:



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MIKE KEHOE,
GOVERNOR

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

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DESIGNER: Introba, Inc.

PROJECT NUMBER: T2417-01

SITE NUMBER: 6280

ASSET NUMBER: 81362800001



ARCHITECTURAL	PLUMBING	MECHANICAL	ELECTRICAL
MISSOURI STATE CERTIFICATE OF AUTHORITY #000148 Bradford A. Pierce AR0005805	MISSOURI STATE CERTIFICATE OF AUTHORITY #000148 Michael Wyland PE-	MISSOURI STATE CERTIFICATE OF AUTHORITY #000148 Julie Ann Coulter E-029040	MISSOURI STATE CERTIFICATE OF AUTHORITY #000148 Timothy J. Bloch PE-2016019362

SHEET NUMBER:

G000

04-16-2025

SHEET 1 OF 31



MISSOURI STATE CERTIFICATE
OF AUTHORITY #000148



BRADFORD A. PIERCE
AR005805

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CONSTRUCTION

MISSOURI ARMY
NATIONAL GUARD

Latrines & Shower Renovations,
Building 233

St. Louis Lambert Readiness
Center

10800 Lambert International
Rd.
Bridgeoton, MO 63044

PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

REVISION: _____
DATE: _____
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DATE: _____
ISSUE DATE: 04-16-2025

CAD DWG FILE: _____
DRAWN BY: CJM/DCR
CHECKED BY: BAP
DESIGNED BY: CJM/DCR

SHEET TITLE:
LIFE SAFETY PLAN

SHEET NUMBER:

G101

BASIC DESIGN CRITERIA

- 2018 International Building Code (IBC)
- 2018 International existing Building Code (IEBC)
- 2018 International Fire Code (UFC)
- 2018 International Mechanical Code (IMC)
- 2018 International Plumbing Code (IPC)
- 2018 International Energy Conservation Code
- 2017 National Electrical Code (NFPA 70)
- NFPA 72 National Fire Alarm and Signaling Code

BUILDING CODE DATA

USE: GROUP B - BUSINESS

ACCESSORY OCCUPANCY CLASSIFICATION: GROUP B

TYPE OF CONSTRUCTION: HEIGHT: UL
TYPE IIB (IBC)

HAZARD OF CONTENTS CLASSIFICATION: NORMAL

ALL HORIZONTAL/VERTICAL PENETRATIONS THROUGH RATED WALL, FLOOR, ROOF, AND CEILING ASSEMBLIES WILL BE FIRESTOPPED PER I.B.C. SECTION 714.

BUILDING ELEMENTS - FIRE RESISTANT REQUIREMENTS

	RATING	ASSEMBLY
FIRE WALLS	N/A	N/A
STRUCTURAL FRAME	N/A	N/A
BEARING WALLS		
EXTERIOR		N/A
INTERIOR		N/A
NON-BEARING WALLS		
EXTERIOR	N/A	
INTERIOR	1 HR	
FLOOR CONSTRUCTION	0 HR	
ROOF CONSTRUCTION	N/A	

PROJECT SQUARE FOOTAGE RENOVATION: 1,240 SF

OCCUPANT LOAD CALCULATIONS (PER IBC TABLE 1004.1.2):
BUSINESS OCCUPANCY
EXISTING TO REMAIN
ACCESSORY / MECHANICAL
EXISTING TO REMAIN

OCCUPANTS TOTAL = EXISTING TO REMAIN

EXITING REQUIREMENTS

EXITING REQUIREMENTS (1-500 OCCUPANTS):
PER IBC TABLE 1006.2.1 THE MIN. NUMBER OF EXITS REQUIRED
PER OCCUPANT
LOAD = 2

NUMBER OF EXITS PROVIDED: 4

TRAVEL DISTANCE:
MAXIMUM TRAVEL DISTANCE TO EXIT PER IBC TABLE 1017.2
UNSPRINKLERED B-OCCUPANCY = 200 FT.

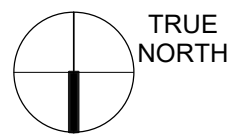
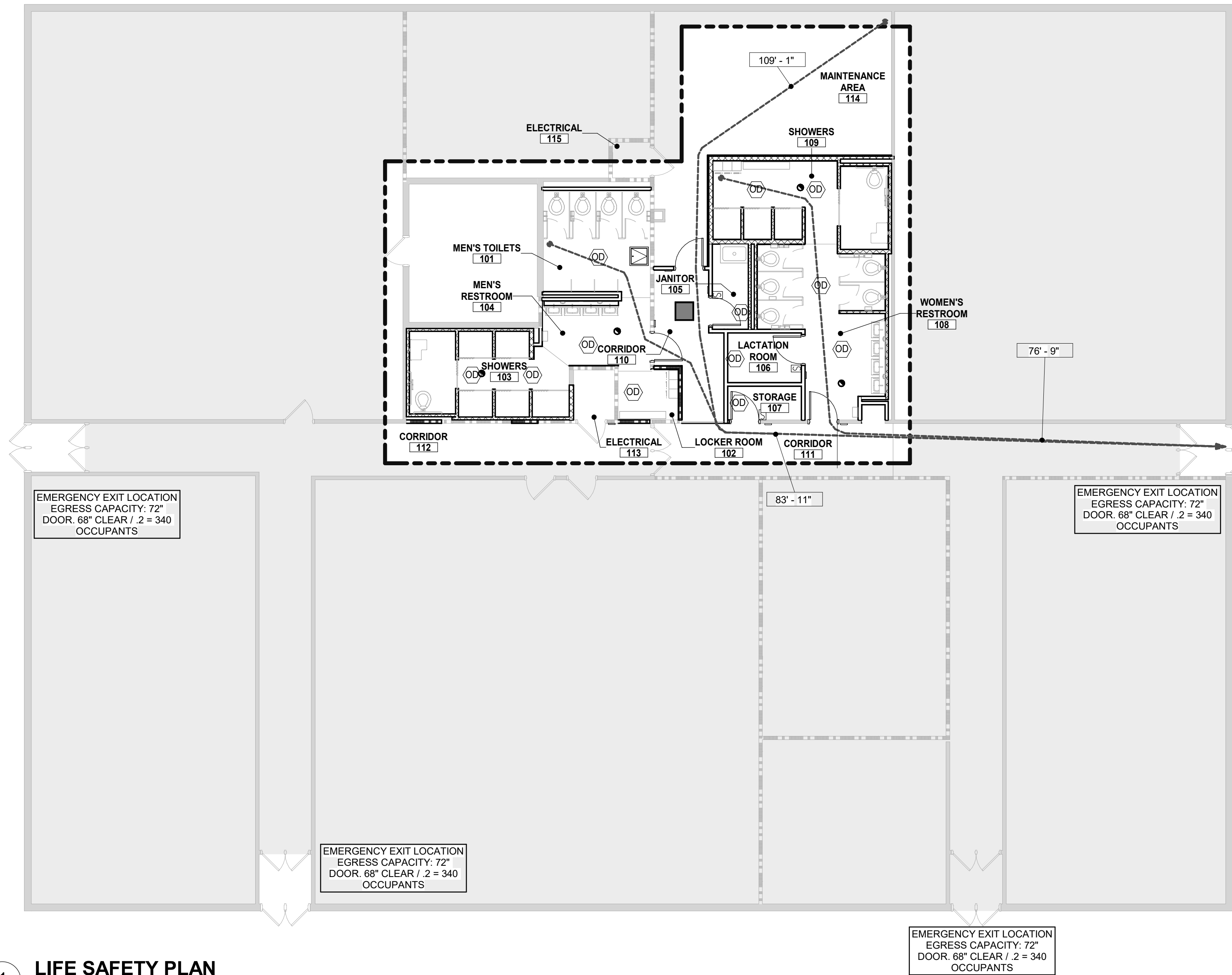
DEAD END CORRIDORS PER IBC SECTION 1020.4: 20 FT.
MAXIMUM

GENERAL NOTES - LIFE SAFETY

- ALL REQUIRED EXITS WILL REMAIN OPEN DURING THE DURATION OF THE PROJECT AND TO BE KEPT CLEAR OF EQUIPMENT, MATERIALS, DEBRIS ETC.
- ALL REQUIRED EXIT EGRESS WIDTHS WILL NOT BE DECREASED DURING THE DURATION OF THE PROJECT AND TO BE KEPT CLEAR OF EQUIPMENT, MATERIALS, DEBRIS ETC.
- REQUIRED TRAVEL DISTANCE BETWEEN FIRE EXTINGUISHERS WILL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR WILL PROVIDE TEMPORARY FIRE EXTINGUISHERS WHICH ARE PROPERLY MARKED WHEN TRAVEL DISTANCE IS INTERRUPTED BY THE CONSTRUCTION PROCESS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ANY EXISTING FIRE PROTECTION OR ALARM SYSTEM. THE CONTRACTOR WILL NOTIFY THE OWNER AND LOCAL FIRE OFFICIAL IN WRITING IF ANY PART OF THE FIRE PROTECTION OR FIRE ALARM SYSTEM IS TO BE INTERRUPTED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY MARKING ANY AND ALL TEMPORARY EXITS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE EMERGENCY EXITS SIGNAGE AND LIGHTING SYSTEM INCLUDING BUT NOT LIMITED TO TEMPORARY SIGNAGE AND LIGHTING AS REQUIRED BY CODE OR LOCAL BUILDING AND FIRE OFFICIALS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE RESTORATION OF ANY RATED ASSEMBLY DISTURBED BY THE CONSTRUCTION PROCESS TO ITS ORIGINAL INTEGRITY.
- PORTIONS OF THE PLAN THAT HAVE BEEN CROSSED HATCHED ARE CONSIDERED OUTSIDE THE SCOPE OF WORK, UNLESS NOTED OTHERWISE BY THE MEPP DOCUMENTS, TYPICAL.
- PER UFC, ALL WORK MUST COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION AND TO INCLUDE THE MEANS OF EGRESS FOR THE PROJECT AREA. TRAVEL DISTANCE MEASUREMENTS MAY NOT TERMINATE AT THE PROJECT LIMIT AREA BOUNDARY UNLESS THE TRAVEL PATH HAS REACHED AN EXIT.
- PER NFPA 101 CH 43, ONLY THE ALTERED/RENEWED SECTIONS OF THE PROJECT ARE REQUIRED TO MEET THE APPLICABLE SECTIONS OF THE CODE. THE ANALYSIS THEREFORE ONLY COVERS THE AREA IMPACTED BY THE RENEWAL OF THE BUILDING. ALL TRAVEL DISTANCES ARE MEASURED WITHIN PROJECT BOUNDARIES AND CONCLUDE AT THE EXISTING EXIT ACCESS CORRIDORS OR EXITS OUTSIDE THE SCOPE OF WORK OF THIS PROJECT. THESE EXIT ACCESS CORRIDORS AND EXITS ARE ASSUMED TO BE CODE COMPLIANT.

LUMINAIRES

- NO SHADING: NORMAL POWER
- ◐ HALF-SHADING: LIFE SAFETY OR BATTERY BACKUP
- ◑ FULL-SHADING: CRITICAL POWER



1

LIFE SAFETY PLAN

1/8" = 1'-0"



2

ARCHITECTURAL SITE PLAN

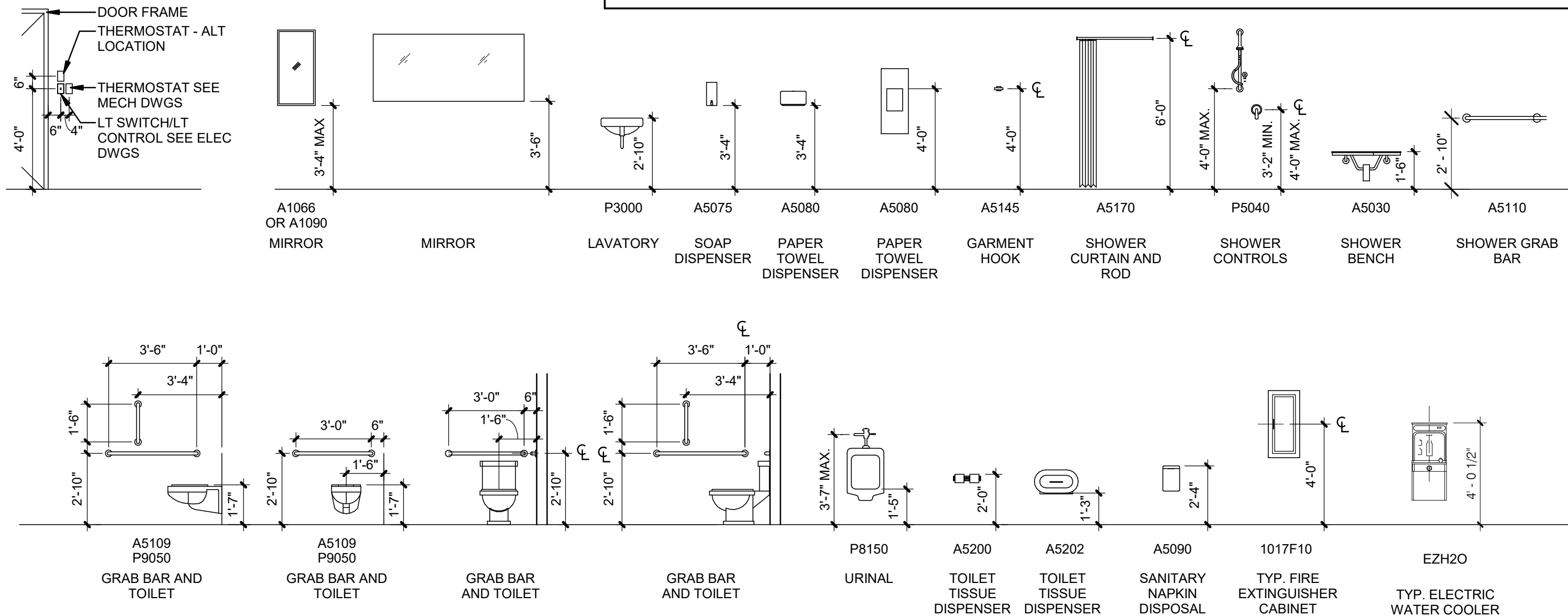
NOT TO SCALE

1

TYPICAL MOUNTING HEIGHTS A.F.F.

1/4" = 1'-0"

NOTE: SEE SHEET EQUIPMENT SCHEDULE FOR NUMBERED EQUIPMENT SCHEDULE



ARCHITECTURAL SYMBOLS

ANNOTATION			
#	KEYNOTE		SECTION - WALL
R308A	DOOR NUMBER		
10'-0"	CEILING HEIGHT		SECTION - DETAIL & CASEWORK
W	WINDOW TYPE		
A0000	JSN TYPE		REVISION
A	SIGNAGE TYPE		
53'15"	PARTITION TYPE		COLUMN LINES
TLT-1	TOILET ACCESSORY TYPE		
Room Name 101	ROOM NAME AND NUMBER		FINISH FLOOR ELEVATION
1 A101	EXTERIOR BUILDING ELEVATION		PLAN NORTH
1 Ref	INTERIOR ELEVATION		TRUE NORTH
Ref 1			EXISTING PHOTO VANTAGE POINT
1 AD888	SECTION - BUILDING		DETAIL REFERENCE
MODELING			
	NEW DOOR		NEW PARTITION
	EXISTING DOOR TO REMAIN		EXISTING PARTITION TO REMAIN
	EXISTING DOOR TO BE REMOVED		EXISTING PARTITION OR CONSTRUCTION TO BE REMOVED

LINETYPES

CENTER LINE
1 HR FIRE BARRIER
2 HR FIRE BARRIER
PATH/ DIRECTION OF EGRESS

ABBREVIATIONS

ACOUST	ACOUSTICAL	GA	GAUGE	RA	RETURN AIR
ACT	ACOUSTICAL CEILING TILE	GALV	GALVANIZED	RAD	RADIUS
ADJ	ADJACENT	GB	GRAB BAR	RCP	REFLECTED CEILING PLAN
AF	ACCESS FLOOR	GL	GLASS	REF	REFERENCE/REFER TO
AFF	ABOVE FINISH FLOOR	GR	GRADE	REFR	REFRIGERATOR
AGG	AGGREGATE	GRND	GROUND	REINF	REINFORCING OR REINFORCEMENT
ALT	ALTERNATE or ALTERNATIVE	GW	GYP	REDD	REQUIRED
ALUM	ALUMINUM	GYP	GYP	REV	REVISION
APPROX	APPROXIMATE(LY)	H	HIGH	RM	ROOM
ARCH	ARCHITECTURAL/ARCHITECT	HB	HOSE BIBB	RO	ROUGH OPENING
ASPH	ASPHALT	HD	HEAD	RT	RUBBER TILE
ATTN	ATTENTION	HDW	HARDWARE	RTU	ROOF TOP UNIT
BD	BOARD	HDWD	HARDWOOD	S	SOUTH
BLDG	BITUMINOUS	HM	HOLLOW METAL	S STL	STAINLESS STEEL
BLK	BLOCK	HORIZ	HORIZONTAL	SA	SUPPLY AIR
BLKG	BLOCKING	HR	HOUR	SAN	SANITARY
BM	BEAM	HT	HEIGHT	SC	SEALED CONCRETE
BO	BOTTOM OF	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	SCHED	SCHEDULE
BRG	BEARING	ID	INSIDE DIAMETER	SD	SMOKE DETECTOR
BSMT	BASEMENT	IN	INCH	SECT	SECTION
BUR	BUILT-UP ROOFING	INFO	INFORMATION	SF	SQUARE FEET
CAB(S)	CABINET(S)	INSUL	INSULATION	SHT	SHEET
CCT	CUBICLE CURTAIN TRACK	INT	INTERIOR	SHWR	SHOWER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	JST	JOIST	SIM	SIMILAR
CG	CORNER GUARD	JT	JOINT	SND	SANITARY NAPKIN DISPENSER
CJ	CONTROL JOINT	KIT	KITCHEN	SNR	SANITARY NAPKIN RECEPTACLE
CL	CENTER LINE	LAM	LAMINATE OR LAMINATED	SPAN	SPANDREL
CLG	CEILING	LAV	LAVATORY	SPEC	SPECIFICATION
CLOS	CLOSET	LBR	LUMBER	SPMR	SINGLE PLY MEMBRANE ROOF(ING)
CLR	CLEAR	LDR	LABOR, DELIVERY AND RECOVERY (PATIENT ROOM)	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	LDRP	LABOR, DELIVERY, RECOVERY AND POST PARTUM (PATIENT ROOM)	SS	STAINLESS STEEL
COL	COLUMN	LG	LIQUID GLAZE EPOXY	SSK	SERVICE SINK
CONC	CONCRETE	LKR	LOCKER	SSM	SOLID SERVICE MATERIAL
CONN	CONNECTION	LT	LIGHT	SST	SAFETY STATION
CONST	CONSTRUCTION	LVT	LUXURY VINYL TILE	STD	STANDARD
CONT	CONTINUOUS	M	MALE	STL	STEEL
CONTR	CONTRACTOR	MACH	MACHINE	STOR	STORAGE
CPT	CARPET	MANUF	MANUFACTURER	STRUC	STRUCTURE
CT	CERAMIC TILE	MAS	MASONRY	SUSP	SUSPENDED
D	DEEP / DEPTH	MAX	MAXIMUM	SVT	SOLID VINYL TILE
DBL	DOUBLE	MECH	MECHANICAL	T & B	TOP AND BOTTOM
DEG	DEGREE	MEMB	MEMBRANE	T & G	TONGUE AND GROOVE
DF	DRINKING FOUNTAIN	MFR	MANUFACTURER	TB	TACKBOARD
DIA	DIAMETER	MGSOV	MEDICAL GAS SHUT OFF VALVE	TELE	TELEPHONE
DIAG	DIAGONAL	MGZV	MEDICAL GAS ZONE VALVE	TEMP	TEMPERED
DIF	DIFFUSER	MH	MANHOLE	TG	TILE GROUT
DIM	DIMENSION	MIN	MINIMUM	TH	THICK
DISP	DISPENSER	MISC	MISCELLANEOUS	THRU	THROUGH
DN	DOWN	MO	MASONRY OPENING	TO	TO
DPW	DEPARTMENT OF PUBLIC WORKS	MTD	MOUNTED	TOC	TOP OF CURB
DS	DOWNSPOUT	MTL	METAL / MATERIAL	TOP	TOP OF PAVEMENT
DT	DRAIN TILE	MULL	MULLION	TOW	TOP OF WALL
DTL	DETAIL	MWP	METAL WALL PANEL	TP	TOILET PAPER
DWG(S)	DRAWING(S)	N	NORTH	TP	TOILET PARTITION
DWR	DRAWER	NC	NURSE CALL	TS	TUB SURROUND
E	EAST	NIC	NOT IN CONTRACT	TTD	TOILET TISSUE DISPENSER
EA	EACH	NO or #	NUMBER	TV	TELEVISION
EJ	EXPANSION JOINT	NOM	NOMINAL	TYP	TYPICAL
EL	ELEVATION	NTS	NOT TO SCALE	UC	UNDER COUNTER
ELEC	ELECTRICAL	OC	ON CENTER	UC REFR	UNDER COUNTER REFRIGERATOR
ELEV	ELEVATOR	OD	OUTSIDE DIAMETER	UCB	UNDER COUNTER BRACKET
ENGR	ENGINEER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	UH	UNIT HEATER
EP	ELECTRICAL PANEL	OFF	OFFICE	UL	UNDERWRITER'S LABORATORY
EQ.	EQUAL	OFOI	OWNER FURNISHED, OWNER INSTALLED	UNFIN	UNFINISHED
EQUIP	EQUIPMENT	OH	OPENING	UNO	UNLESS NOTED OTHERWISE
ESMT	EASEMENT	OPNG	OPENING	UR	URINAL
EW	EYE WASH	OPP	OPPOSITE	VB	VINYL BASE
EWC	ELECTRIC WATER COOLER	PL	PLASTIC LAMINATE	VCT	VINYL COMPOSITION TILE
EXH	EXHAUST	PLAS	PLASTER	VERT	VERTICAL
EXIST	EXISTING	PLBG	PLUMBING	VEST	VESTIBULE
EXP	EXPANSION	PLWD	PLYWOOD	VIF	VERIFY IN FIELD
EXP AGG	EXPOSED AGGREGATE	POT	PORCELAIN TILE	VTR	VENT THROUGH ROOF
EXT	EXTERIOR	PR	PAIR	VW	VINYL WALL COVERING
FA	FIRE ALARM	PREFAB	PREFABRICATED	W	WEST
FCU	FAN COIL UNIT	PROJ	PROJECTION	W	WIDE
FD	FLOOR DRAIN	PRTN	PARTITION	W(O)	WITH / WITHOUT
FE	FIRE EXTINGUISHER	PT	PAINT	WC	WATER CLOSET
FEC	FIRE EXTINGUISHER CABINET	PTD	PRESSURE TREATED	WD	WOOD
FF	FINISH FLOOR		PAPER TOWEL DISPENSER	WH	WALL HYDRANT
FIN	FINISH			WIND	WINDOW
FLASH	FLASHING			WP	WALL PROTECTION
FLR	FLOOR			WS	WIRE SHELVING
FND	FOUNDATION			WT	WINDOW TREATMENT
FRZ	FREEZER			WWF	WELDED WRE FABRIC
FT	FEET (FOOT)			WWM	WELDED WIRE MESH
FTG	FOOTING			XFI	X-RAY FILM ILLUMINATOR
FUR	FURRING			YD	YARD
FUT	FUTURE				
FV	FIELD VERIFY				

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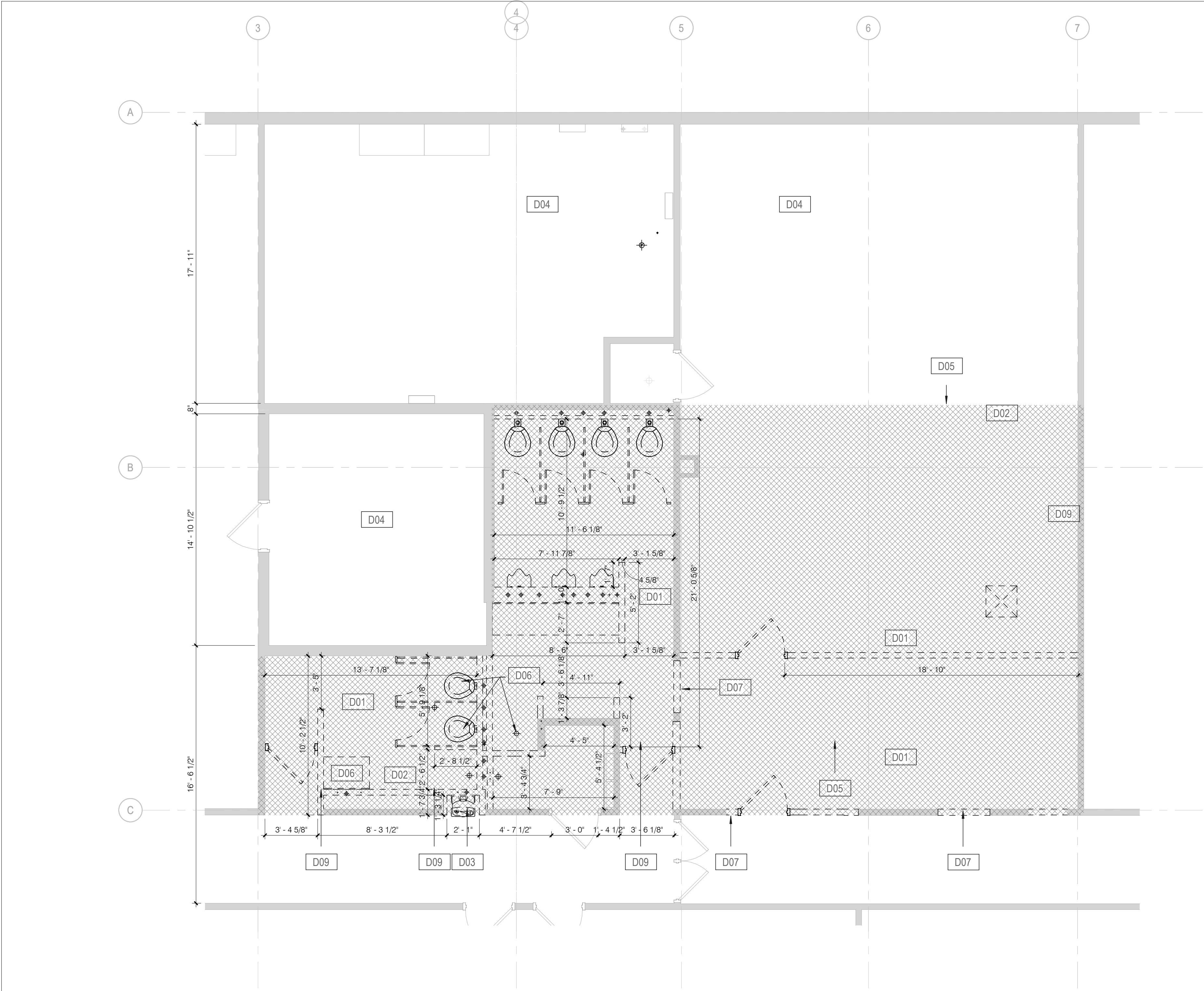
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LEGEND, SYMBOLS,
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ABBREVIATIONS, AND
SITE PLAN

SHEET NUMBER:

A000

04-16-2025

SHEET 3 OF 31



1

DEMOLITION FLOOR PLAN

1/4" = 1'-0"

Keynote Legend

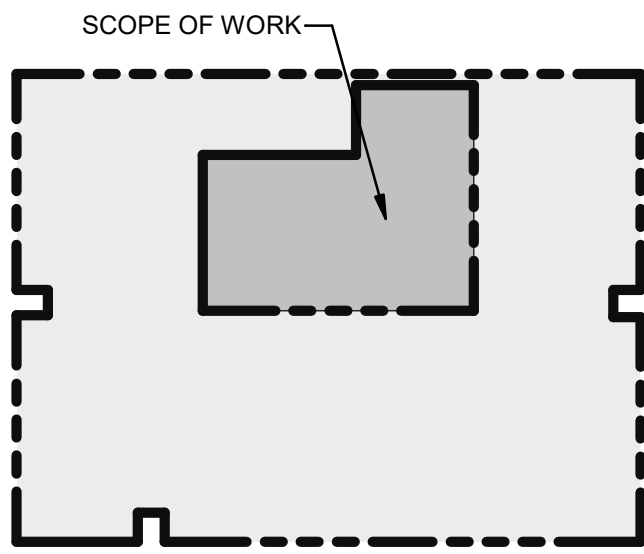
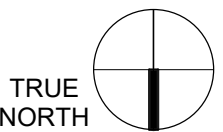
Key Value	Keynote Text
D01	THE CONTRACTOR WILL PERFORM GROSS INTERIOR DEMOLITION INCLUSIVE OF ALL WALLS, DOORS, CEILINGS, FLOOR FINISHES & ADHESIVE/MORTAR, EQUIPMENT & DEVICES. CASEWORK, EQUIPMENT, ETC. EXISTING BUILDING SHELL AND INTERIOR STRUCTURE WILL REMAIN.
D02	SAW CUT & REMOVE EXISTING FLOOR SLAB INCLUDING BUT NOT LIMITED TO TRENCHING FOR NEW MEPPF UTILITIES. FIELD VERIFY EXTENTS OF EXISTING FLOORING FOR REMOVAL. REMOVE EXISTING AND RELATED PIPING. BACKFILL WITH GRANULAR FILL FOR THE INSTALLATION OF A NEW CONCRETE SLAB. SEE MEPPF AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D03	REMOVE WALL MOUNTED DRINKING FOUNTAIN AND PLUMBING.
D04	NO WORK THIS AREA UNLESS REQUIRED FOR MEP ROUTING. COORDINATE W/ MEP DRAWINGS.
D05	LINE OF EXISTING BUILDING CONSTRUCTION TO REMAIN. PROTECT DURING DEMOLITION
D06	REMOVE EXISTING PLUMBING FIXTURES COMPLETELY. CAP ALL SERVICES BELOW FLOOR AND/OR BEYOND FACE OF WALL CONSTRUCTION. REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. PREPARE SURFACES TO REMAIN AS REQUIRED FOR NEW CONSTRUCTION.
D07	REMOVE EXISTING METAL STUD WALL CONSTRUCTION AS REQUIRED FOR NEW DOOR OPENING. REFER TO THE ARCHITECTURAL DRAWINGS AND OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
D09	COORDINATE WITH ANY IN FLOOR TRENCHING (P102). SEE ENVIRONMENTAL ITEMS IN ROOM 125, NOTE AREAS OF ACM DISTERBANCE, STATE SEE ENVIRONMENTAL REPORT.

GENERAL NOTES - OCCUPANCY

- A. BUILDING SHALL REMAIN OCCUPIED DURING THE DURATION OF THE CONSTRUCTION PERIOD AT NO TIME WILL THE OWNERS OPERATIONS BE IMPACTED DUE TO CONSTRUCTION EFFORT.

GENERAL DEMOLITION NOTES

- A. EXISTING CONDITIONS ARE BASED ON INFORMATION OBTAINED FROM EXISTING DRAWINGS AND FIELD SURVEY. AND WILL NOT BE CONSTRUED AS "AS BUILT." THE CONTRACTOR WILL FIELD VERIFY EXISTING CONDITIONS PRIOR TO ONSET OF CONSTRUCTION.
- B. THE DEMOLITION DRAWING IS TO SHOW A GENERAL "GUT" OF THE DEMOLITION AREA. ALL INTERIOR PARTITIONS, FLOORING, CEILING, CASEWORK, PLUMBING, MECHANICAL, AND ELECTRICAL FIXTURES ARE TO BE REMOVED (SHOWN DASHED) UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EXISTING STRUCTURE TO REMAIN UNLESS SHOWN DEMOLISHED ON STRUCTURAL DRAWINGS FOR THE EXTENT OF THEIR WORK.
- C. ALL WALL PARTITIONS SHOWN DASHED ARE TO BE REMOVED. THE CONTRACTOR WILL PATCH ALL PARTITIONS, CEILINGS, AND FLOORS AFFECTED BY DEMOLITION TO MATCH ADJACENT CONSTRUCTION.
- D. THE OWNER WILL VERIFY WHICH REMOVAL ITEMS ARE TO BE RETAINED BY THE OWNER AT THE PRE-CONSTRUCTION MEETING.
- E. WHILE DEMOLITION IS OCCURRING, BUSINESS ACTIVITIES WILL BE PROCEEDING IN ADJACENT AREAS. MINIMIZE NOISE AND DUST LEVELS.
- F. ALL EXISTING HAZARDOUS MATERIALS IN THE BUILDING WILL BE REVIEWED AND DEMOLISHED BY AN ABATEMENT CONTRACTOR. REFER TO THE HAZARDOUS MATERIAL REPORT INCLUDED IN THE WORK PLAN.
- G. WHEN EXTERIOR WALLS, WINDOWS, AND DOORS ARE REMOVED, CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED TO ASSURE EXISTING BUILDING REMAINS WATERTIGHT AND WITHOUT AIR INFILTRATION DURING WORK. MAINTAIN TEMPORARY PARTITIONS AS REQUIRED.
- H. TEMPORARY PARTITIONS AND TEMPORARY DOORS AS REQUIRED TO AVOID MIGRATION OF DUST AND DEBRIS INTO ADJOINING AREAS, TO MAINTAIN PROPER FIRE EXITS, AND TO CONFINE PEDESTRIAN ACTIVITY TO OCCUPIED SPACES WHILE MAINTAINING REQUIRED MEANS OF EGRESS.
- I. ALL DEMOLITION WILL BE COORDINATED WITH PHASING WORK REQUIRED TO COMPLETE WORK.
- J. COORDINATE DEMOLITION WORK IN OCCUPIED SPACES AND NOTIFY OWNER TWO WEEKS PRIOR TO COMMENCING WORK. MINIMIZE DISRUPTIONS TO SPACES THAT REMAIN IN OPERATION. PROTECT EXISTING FLOOR, WALL, AND CEILING FINISHES.
- K. THE CONTRACTOR WILL PROVIDE FALL AND SAFETY PROTECTION AT ANY HAZARDOUS CONDITION CAUSED BY THE DEMOLITION PROCESS.
- L. NOTES WHICH DO NOT HAVE ARROWS TO SPECIFIC ITEMS INDICATE MATERIAL TO BE REMOVED FOR ENTIRE ROOM IN WHICH NOTE OCCURS.
- M. MAKE ALL DEMOLITION CLEAN AND COMPLETE IN A MANNER SUITABLE FOR NEW FINISHES AND SURFACES.
- N. WHEN DEMOLITION CAUSES OR EXPOSES DAMAGE TO FLOOR SLAB, WALL, OR CEILING SURFACES WHICH WILL REMAIN IN THE FINISHED WORK, SUCH CONDITIONS WILL BE REPAIRED AND LEVELED AS REQUIRED TO RECEIVE NEW FINISHES. REPAIRS MUST BE ACCEPTABLE TO OWNER.
- O. THE CONTRACTOR WILL CLEAN, PATCH, AND REPAIR EXISTING SURFACES AFFECTED DURING DEMOLITION AND CONSTRUCTION TO MATCH EXISTING ADJACENT SURFACES. REPAIRS WILL BE MADE AS TO MATCH EXISTING CONSTRUCTION IN MATERIAL, METHOD, TECHNOLOGY, COLOR PATTERNS, ETC.
- P. REMOVE ALL EXISTING CEILING, SUSPENSION SYSTEM, FRAMEWORK, GRIDS, WALL MOULDING, ETC., WITHIN THE PROJECT LIMITS UNLESS OTHERWISE INDICATED ON PLANS.
- Q. PATCH OPENINGS IN EXTERIOR WALLS RESULTING FROM DEMOLITION ACTIVITIES.
- R. ALL DOORS SHOWN DASHED ARE TO BE REMOVED. ASSOCIATED DOOR FRAME TO BE REMOVED UNLESS NOTED OTHERWISE.
- S. VERIFY FLOOR ELEVATIONS ON EACH SIDE OF WALLS BEING REMOVED. GRIND AND PATCH FLOOR AND INSTALL EPOXY FILL MATERIAL AS REQUIRED, FOR SMOOTH, LEVEL FLOOR CONDITION. THE CONTRACTOR WILL PROTECT THE EXISTING FLOOR FINISHES TO REMAIN FROM DAMAGE THROUGHOUT CONSTRUCTION.
- U. REMOVE EXISTING FLOOR FINISH AND BASE WHERE NEW FINISHES ARE REQUIRED. REMOVE FLOOR FINISH ADHESIVE. CLEAN AND PREPARE SUBSTRATES AS REQUIRED TO PRODUCE A FLAT, EVEN SURFACE IN A MANNER SUITABLE TO ACCEPT NEW FINISHES.
- V. PATCH FLOOR PENETRATIONS RESULTING FROM REMOVAL OF EXISTING DUCTWORK, PIPING, AND ELECTRICAL RACEWAYS. FILL PENETRATIONS WITH CONCRETE. FULL FLOOR THICKNESS AND MAINTAIN FIRE-RESISTIVE RATING OF FLOOR SYSTEM. FINISH SUBSTRATE IN A MANNER SUITABLE FOR NEW FLOOR FINISHES.
- W. THE CONTRACTOR WILL FILL ALL WALL PENETRATIONS RESULTING FROM THE REMOVAL OF EXISTING MEP DEVICES IN THE INTERIOR WALLS TO REMAIN. THE PENETRATIONS WILL BE FILLED FLUSH WITH, AND OF THE SAME MATERIALS AS, THE SURROUNDING WALLS. THIS INCLUDES WORK ABOVE ALL CEILINGS. THE CONTRACTOR WILL IN-FILL ALL OPENINGS IN EXTERIOR WALLS RESULTING FROM THE REMOVAL OF LOUVERS, EXHAUST FANS, ETC. THE OPENINGS WILL BE FILLED FLUSH WITH, AND OF THE SAME MATERIALS AS, THE SURROUNDING WALLS.
- X. THE CONTRACTOR WILL COORDINATE WITH THE OWNER FOR ALL EXISTING EQUIPMENT AND FURNITURE ITEMS THAT ARE TO BE SALVAGED OR RE-INSTALLED PRIOR TO THE COMMENCEMENT OF DEMOLITION. (THIS SHOULD BE DEFINED AT THE SITE INVESTIGATION).
- Y. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMITS WHICH ARE NOT INDICATED TO REMAIN. IF ITEMS ARE REMOVED FROM WALLS OR COLUMNS THAT REMAIN, PATCH WALLS AND COLUMNS AS REQUIRED TO RECEIVE NEW FINISHES.
- Z. EXISTING SYSTEMS FURNITURE CURRENTLY LOCATED IN AREAS THAT WILL BE AFFECTED BY CONSTRUCTION WILL BE REMOVED BY THE OWNER PRIOR TO CONSTRUCTION.
- AA. PORTIONS OF THE PLAN THAT HAVE BEEN CROSSED HATCHED ARE CONSIDERED OUTSIDE THE SCOPE OF WORK, UNLESS NOTED OTHERWISE BY THE MEPPF DOCUMENTS. TYPICAL.
- BB. CONTRACTOR WILL VERIFY, MAINTAIN, AND PROTECT ALL EXISTING FIRE-RATED AND/OR SMOKE-RATED ASSEMBLIES WITHIN THE PROJECT AREA THAT ARE TO REMAIN DURING CONSTRUCTION.
- CC. ALL FIRE-RATED FLOOR PENETRATIONS WILL BE REPAIRED AND/OR MAINTAINED TO A 2-HOUR MINIMUM RATING WITHIN FOUR (4) HOURS OF DEMOLITION.
- DD. ALL PENETRATIONS WILL BE MAINTAINED AND/OR REPAIRED TO MEET THE MINIMUM RATING REQUIREMENTS WITHIN FOUR (4) HOURS OF DEMOLITION.
- EE. ANY EXISTING FIRE-RATED AND/OR SMOKE-RATED ASSEMBLIES THAT ARE DISCOVERED TO BE COMPROMISED WILL BE REPAIRED WITHIN FOUR (4) HOURS OF THE DISCOVERY.



KEY PLAN

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MIKE KEHOE,
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10800 Lambert International
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Bridgeton, MO 63044

PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

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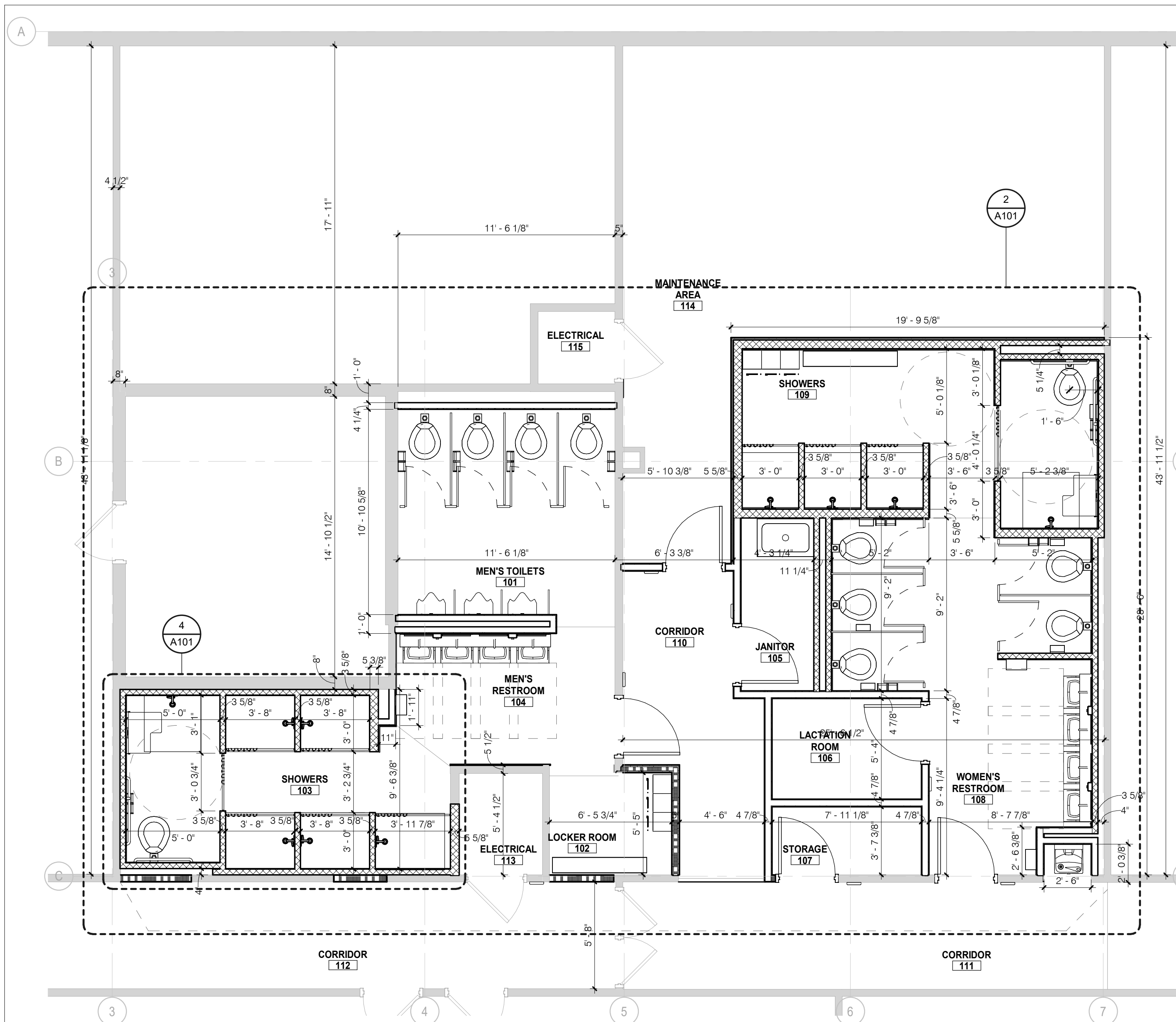
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DEMOLITION FLOOR
PLAN

SHEET NUMBER:

AD101

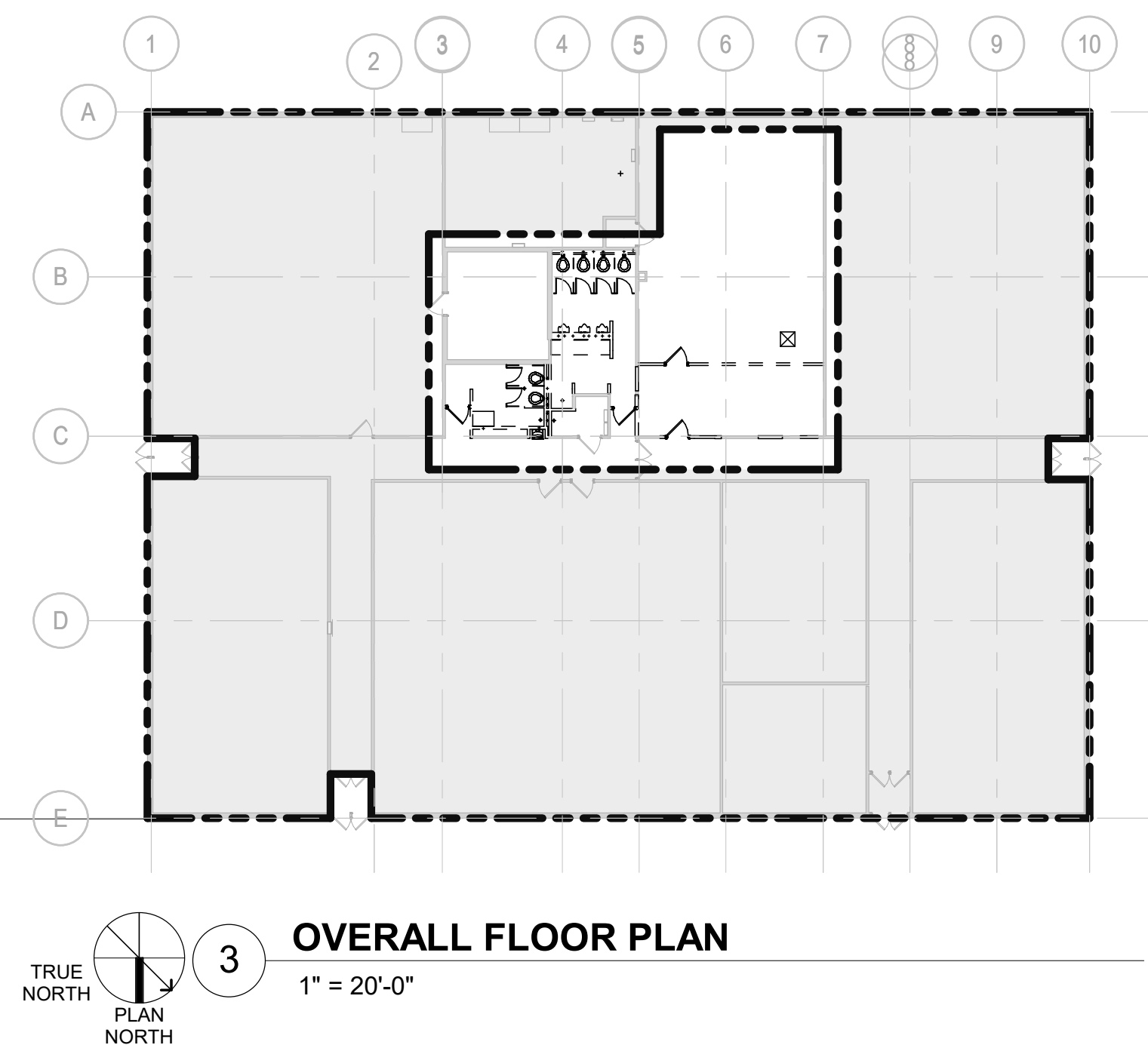
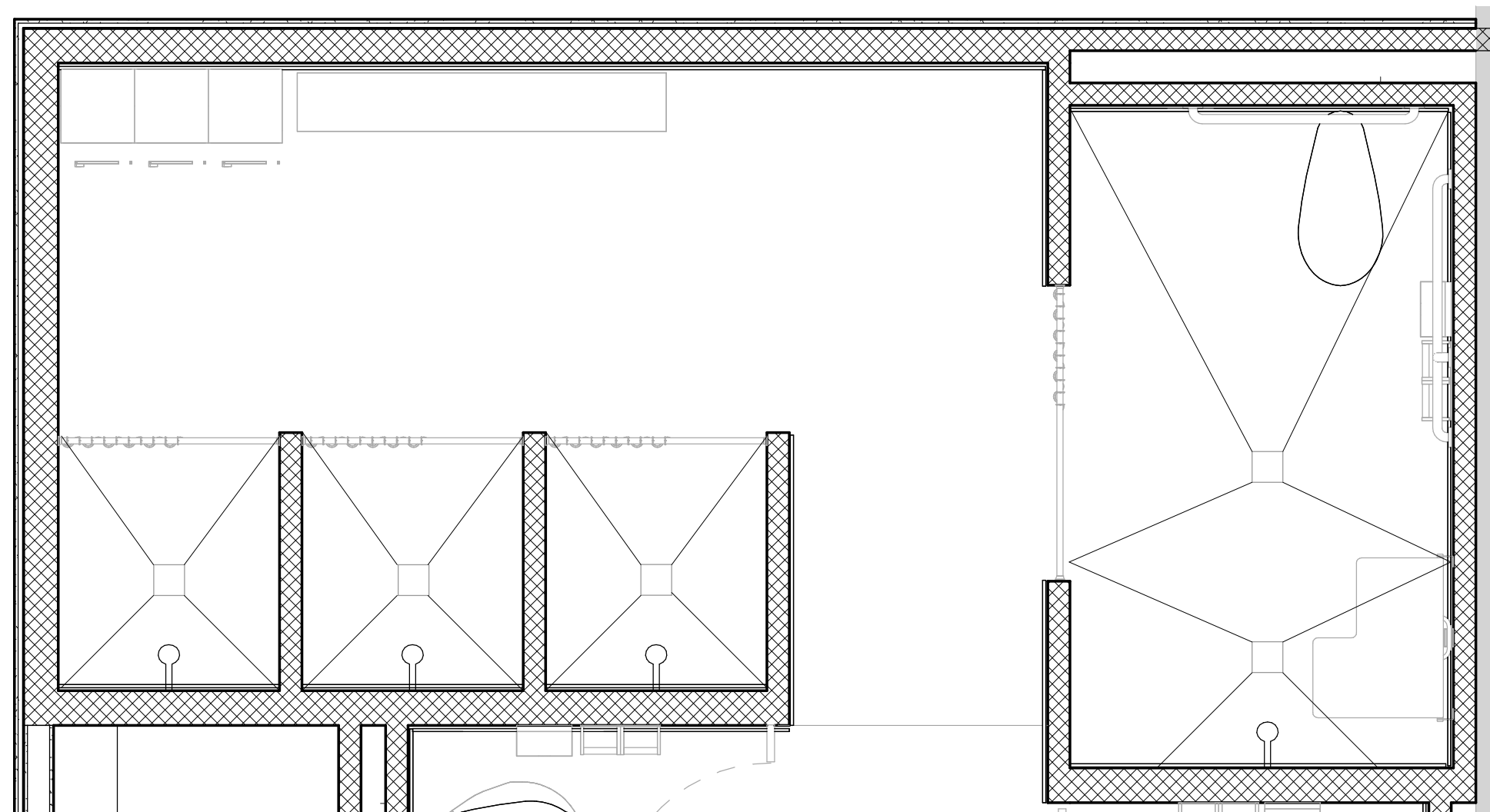
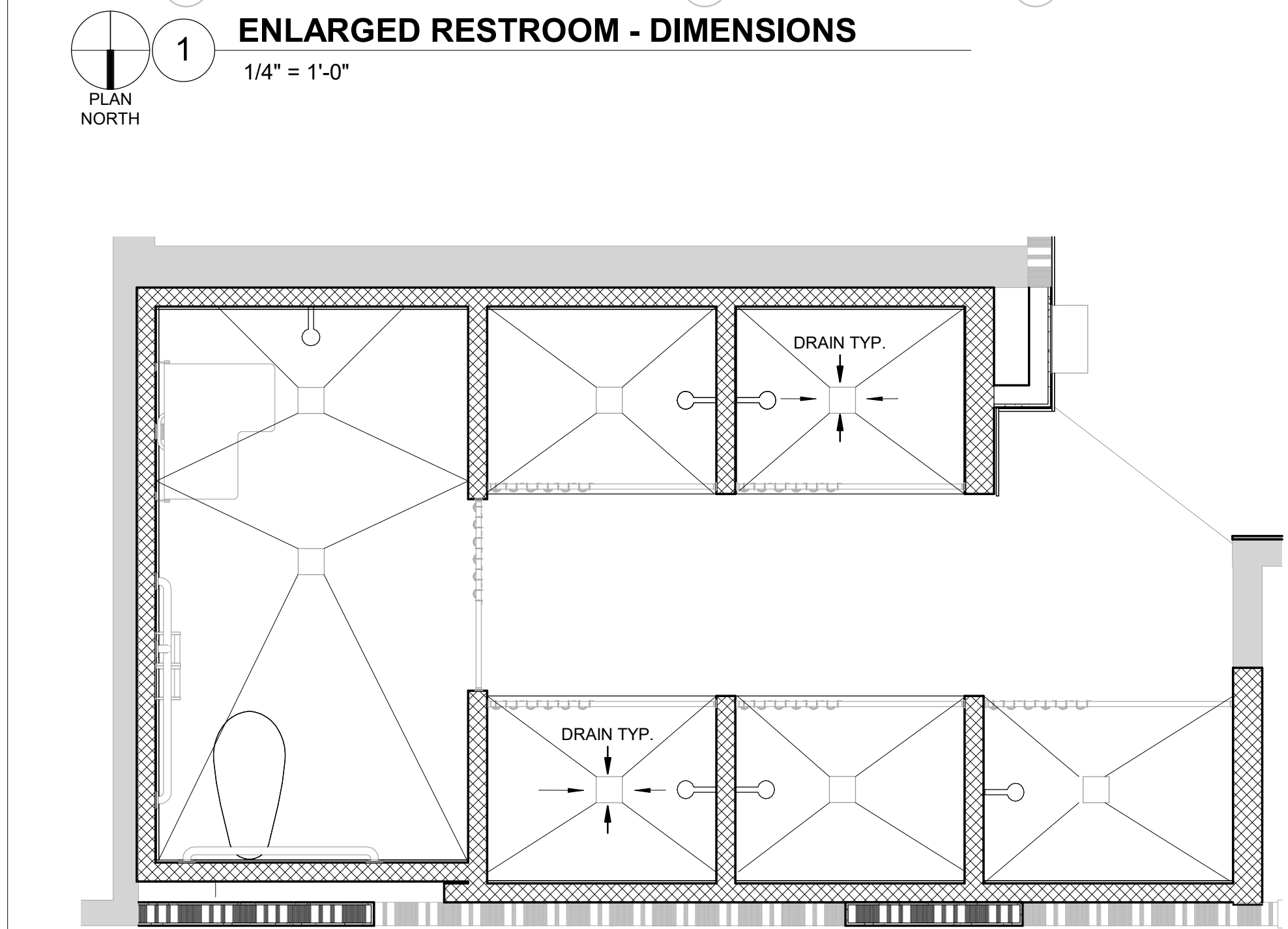
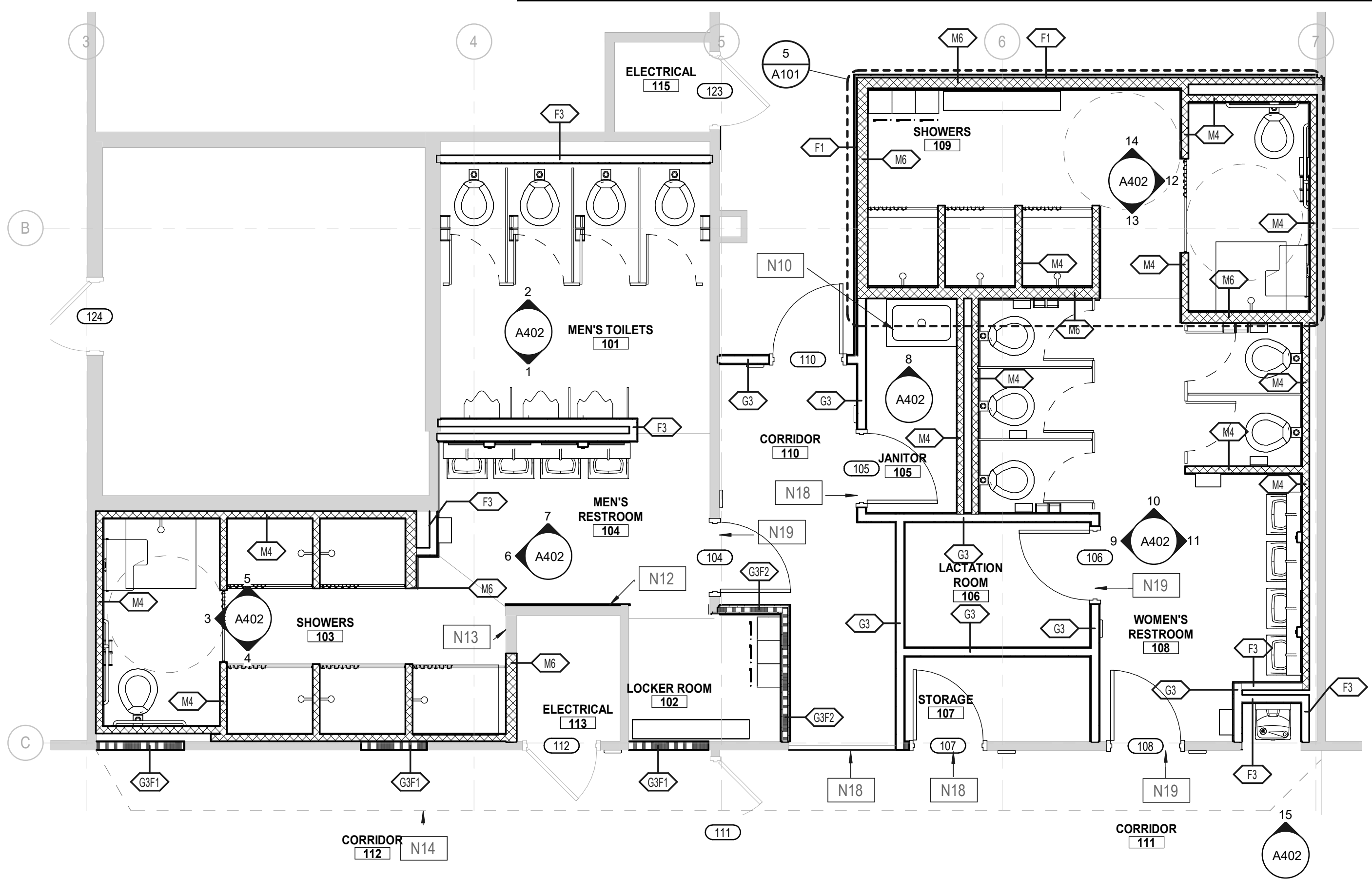
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SHEET 4 OF 31



Keynote Legend	
Key Value	Keynote Text
N10	MOP SINK
N12	NEW 5/8" GYPSUM BOARD
N13	PATCH & PAINT EXISTING WALL
N14	FILL IN, PATCH & PAINT ENTIRE NEW & EXISTING WALL WITHIN DASHED LINE BOUNDARY.
N18	SEE FLOORING TRANSITION (TS-2) FOR NEW FLOOR INSTALLATION CONDITION.
N19	SEE FLOORING TRANSITION (TS-1) FOR NEW FLOOR INSTALLATION CONDITION.

- GENERAL NOTES - FLOOR PLANS**
- A. ALL PARTITIONS WILL BE AS SPECIFIED ON FLOOR PLAN AND PARTITION DETAIL SHEET. ALL COLUMN FURRING WILL BE G3 UNLESS NOTED OTHERWISE. SEE PARTITION TYPES IN THIS SET.
 - B. INSTALL CONTINUOUS JOINT SEALANT AT ALL INTERIOR CONSTRUCTION JOINT LOCATIONS (TYP.)
 - C. ALL HORIZONTAL/VERTICAL PENETRATIONS THROUGH RATED WALL, FLOOR, ROOF, AND CEILING ASSEMBLIES WILL BE FIRESSTOPPED PER I.B.C. SECTION 712. ALL FIRESSTOPPING MATERIAL WILL BE APPROVED BY FIRE MARSHALL.
 - D. PROVIDE AND INSTALL ALL NECESSARY BLOCKING AT ALL WALL MOUNTED ITEMS TYPICALLY. 16 GA. SHEET METAL WILL BE ACCEPTABLE.
 - E. ALL NEW WALLS INSTALLED ADJACENT TO EXISTING WALLS SHALL BE ALIGNED FLUSH WITH EXISTING, UNLESS NOTED OTHERWISE.
 - F. ALL DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
 - G. ALL FLOOR TRANSITIONS BETWEEN DIFFERENT MATERIALS SHALL BE SMOOTH AND FLUSH (MAXIMUM = 1/8" PER FOOT).
 - H. EXISTING WALL FINISHES TO REMAIN IN AREAS NOT TOUCHED BY CONSTRUCTION.
 - I. OWNERS OPERATIONS WILL NOT BE INTERRUPTED. CONTRACTOR TO COORDINATE ANY CONSTRUCTION WITH THE OWNER TO ALLOW CONTINUED OPERATION DURING THE CONSTRUCTION PERIOD.
 - J. FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
 - K. WHERE ENVIRONMENTAL REPORT IDENTIFIES HAZARDOUS MATERIALS PROVIDE REMEDIATION PRIOR TO PERFORMING THE CONSTRUCTION ACTIVITIES. THE BUILDING IS TO REMAIN FULLY OCCUPIED AT ALL TIMES AND DAILY OPERATIONS ARE NOT TO BE IMPACTED DURING THE CONSTRUCTION OF THE PROJECT.



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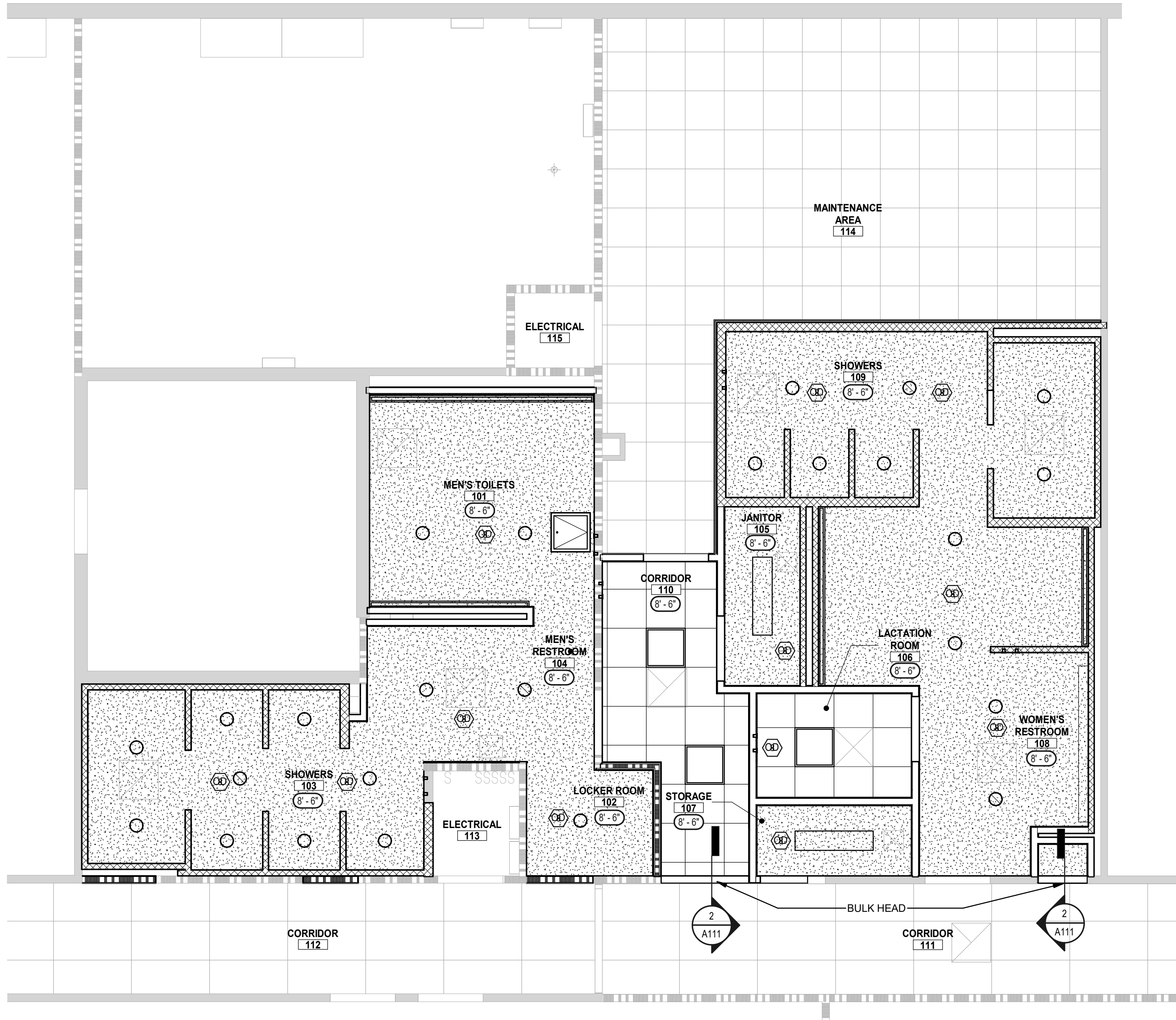
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FLOOR PLANS

SHEET NUMBER:

A101



REFLECTED CEILING PLAN LEGEND

	GYP. BD. CEILING		24"x48" FIXTURE
	LIQUID GLAZED GYP. BD. CEILING		RECESSED FIXTURE
	24"x24" SUSPENDED ACOUSTICAL CEILING		EXIT SIGN
	CEILING HEIGHT		MECH. RETURN AIR DIFFUSER
	ACCESS PANEL		MECH. SUPPLY AIR DIFFUSER

EXIT DEVICES

CLG	WALL		
		EXIT SIGN DOUBLE-SIDED FIXTURE	DIRECTIONAL ARROWS AS INDICATED
		EXIT SIGN SINGLE-SIDED FIXTURE	DIRECTIONAL ARROWS AS INDICATED

GENERAL NOTES - RCP

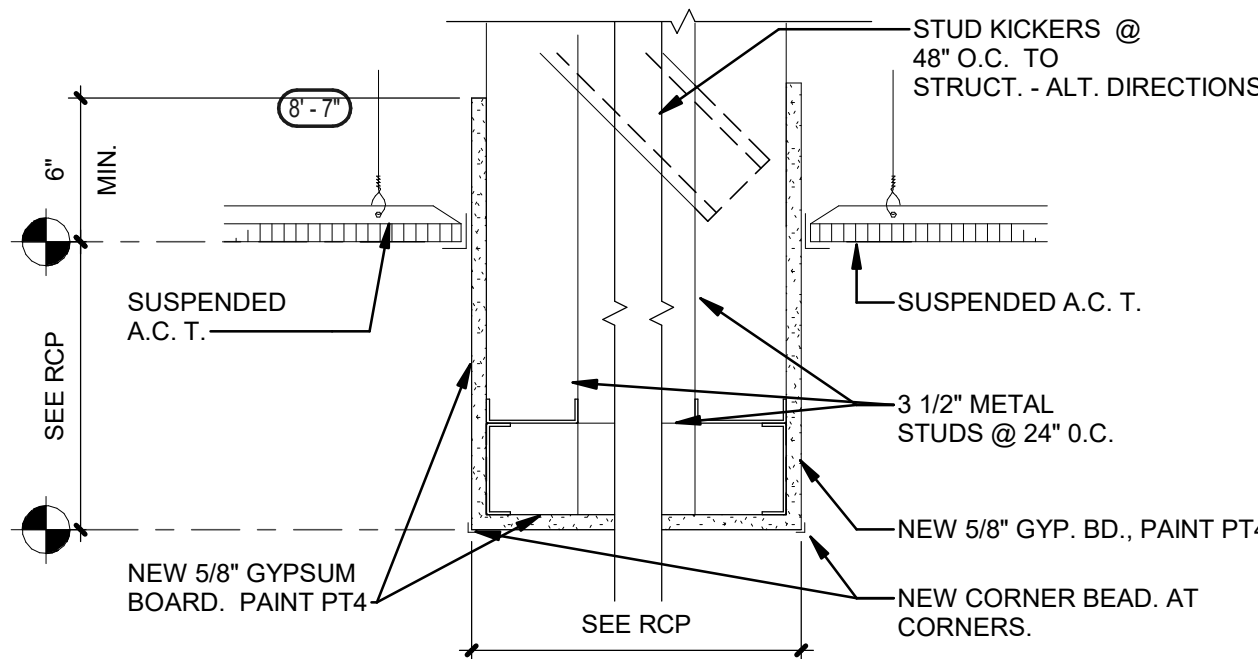
- ALL TRADES WILL PARTICIPATE IN A COORDINATION MEETING PRIOR TO ANY INSTALLATION OF ABOVE CEILING SYSTEMS, SERVICES, EQUIPMENT, ETC. DURING THE SHOP DRAWING PHASE.
- REFER TO THE PROJECT MANUAL AND THE FIRE PROTECTION PLANS FOR THE LOCATION OF THE SPRINKLER HEADS UNLESS DIMENSIONED OTHERWISE ON THE PLANS. DO NOT LOCATE ANY SPRINKLER HEADS IN A BULKHEAD OR SOFFIT WITHOUT FIRST COORDINATING THE LOCATION WITH THE ARCHITECT.
- REFER TO THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL CEILING MOUNTED SERVICES.
- ALL CEILING MOUNTED SPRINKLER HEADS, DETECTORS, LIGHT FIXTURES, EXIT LIGHTS ETC WILL BE INSTALLED IN THE CENTER OF THE CEILING PANEL. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ALL SYSTEMS TO BE LOCATED IN AND ABOVE THE CEILING, INCLUDING, BUT NOT LIMITED TO FIRE PROTECTION/SAFETY, HVAC, ELECTRICAL SYSTEMS, ETC. SEE ELECTRICAL PLANS FOR LIFE SAFETY/FIRE ALARM DEVICES. THESE DEVICES SHALL TAKE FIRST PRECEDENCE. CONTRACTOR TO ADJUST/COORDINATE LIGHT FIXTURES AND SUPPLY/RETURN AIR GRILLES ACCORDINGLY.
- REFER TO THE DEMOLITION PLANS FOR LOCATION OF EXISTING CEILINGS TO BE REMOVED.
- GC SHALL COORDINATE ALL SYSTEMS TO BE LOCATED IN AND ABOVE THE CEILING, INCLUDING BUT NOT LIMITED TO: FIRE PROTECTION / LIFE SAFETY, HVAC, PLUMBING, ELECTRICAL SYSTEMS, ETC. REFER TO CEILING COORDINATION DETAILS IN THIS SET. [DESIGNER NOTE: ADD CLO DETAILS TO SET.]
- REFER TO CASEWORK DETAILS FOR BULKHEADS OVER UPPOER WALL CABINETS. THE BULKHEAD MUST EXTEND BEYOND THE FACE OF THE CABINET DOOR A MINIMUM OF 1/2". PORTIONS OF THE PLAN SHOWN HATCHED INDICATES APPROXIMATE AREA WHERE MECHANICAL/PLUMBING WORK OCCURS. EXISTING CEILINGS TO BE REMOVED AS REQUIRED FOR MECHANICAL/PLUMBING WORK. REINSTALL CEILINGS AFTER WORK IS COMPLETED. AT GYP.BD. CEILING LOCATIONS, PATCH AFFECTED AREAS TO MATCH EXISTING CONSTRUCTION AND FINISH. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

LUMINAIRES

	NO SHADING:	NORMAL POWER
	HALF-SHADING:	LIFE SAFETY OR BATTERY BACKUP
	FULL-SHADING:	CRITICAL POWER

1 MAIN LEVEL REFLECTED CEILING PLAN

1/4" = 1'-0"



2 SOFFIT DETAIL 4

1 1/2" = 1'-0"

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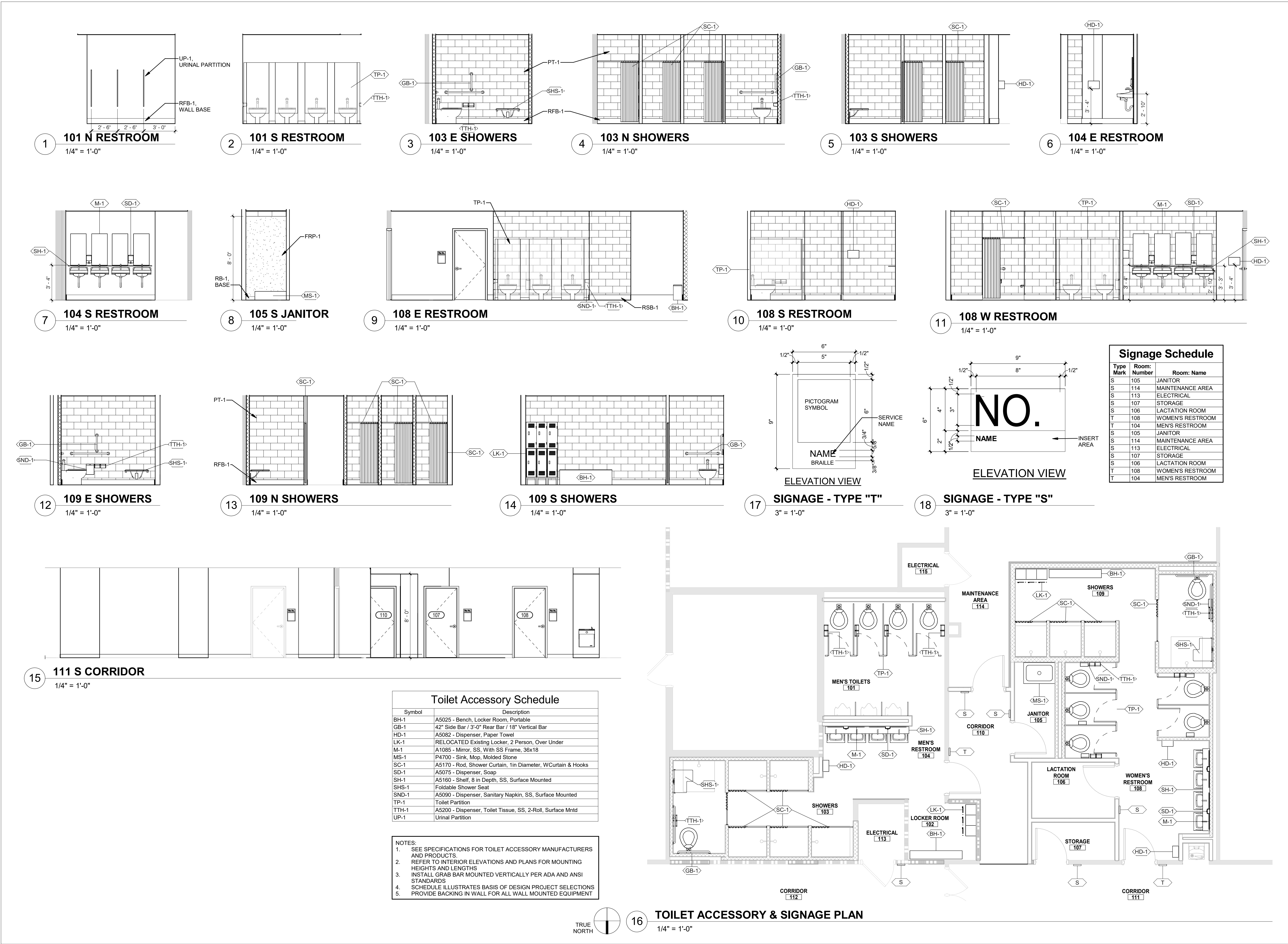
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REFLECTED CEILING
PLAN

SHEET NUMBER:

A111

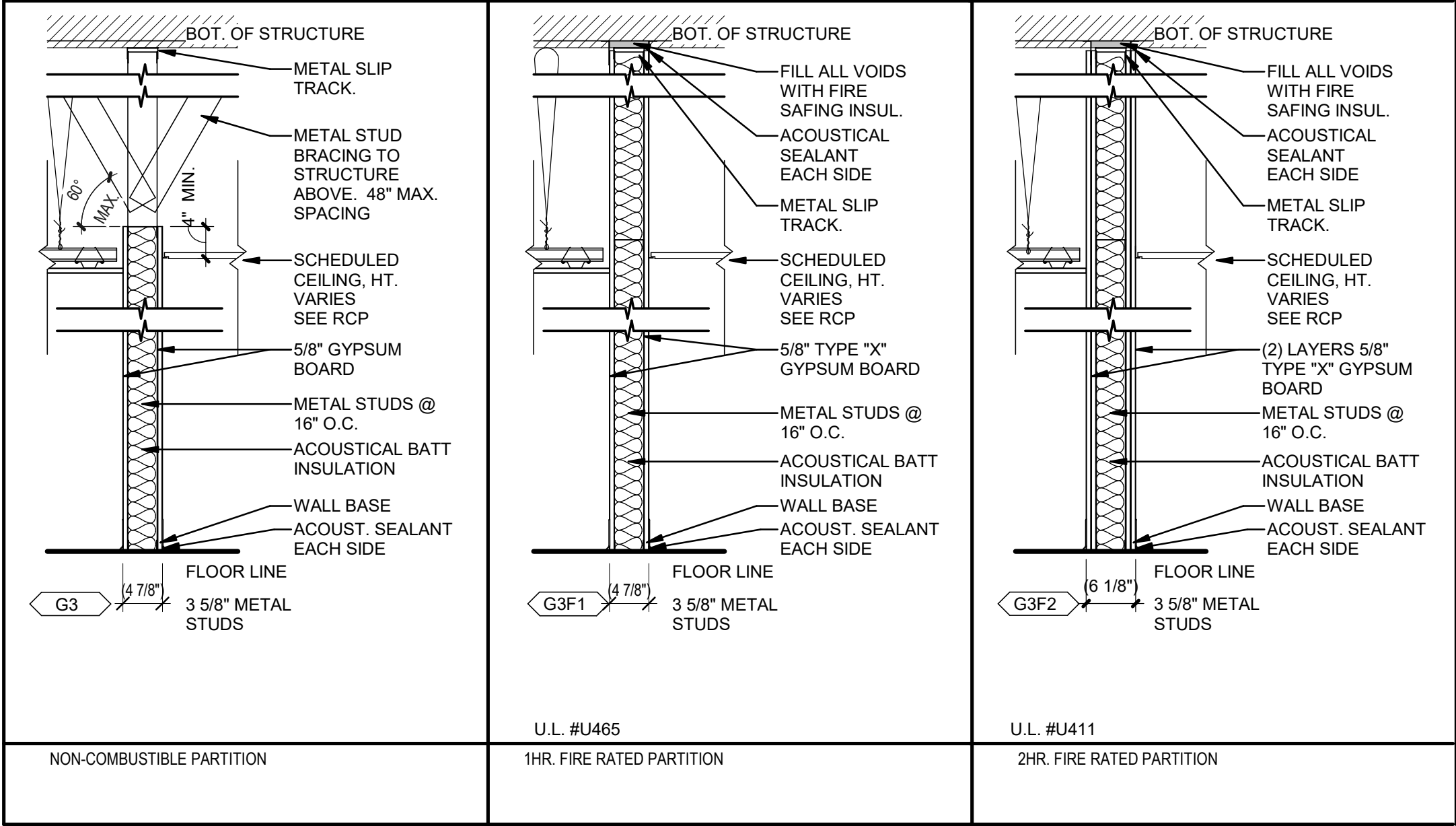
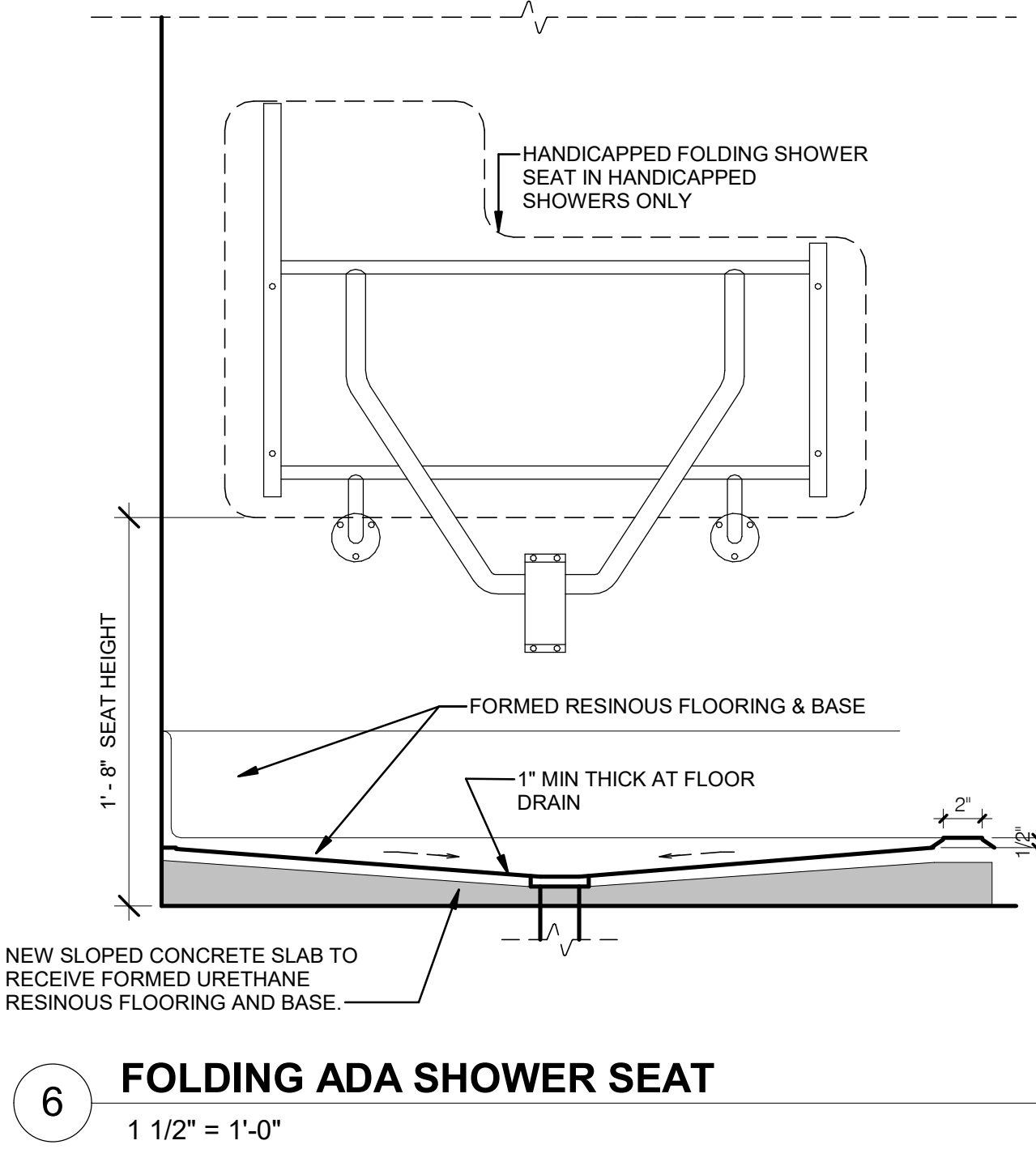
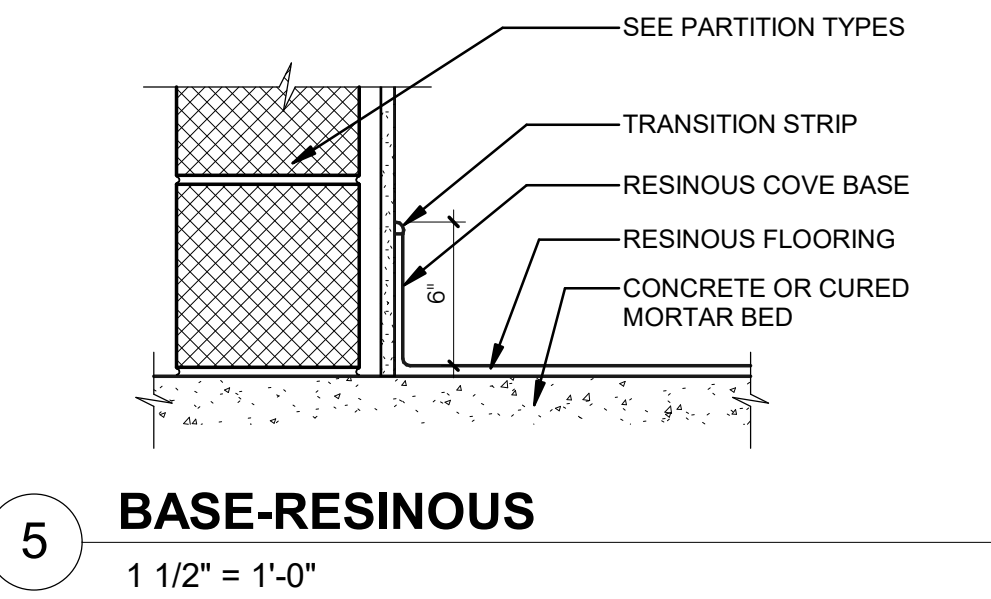
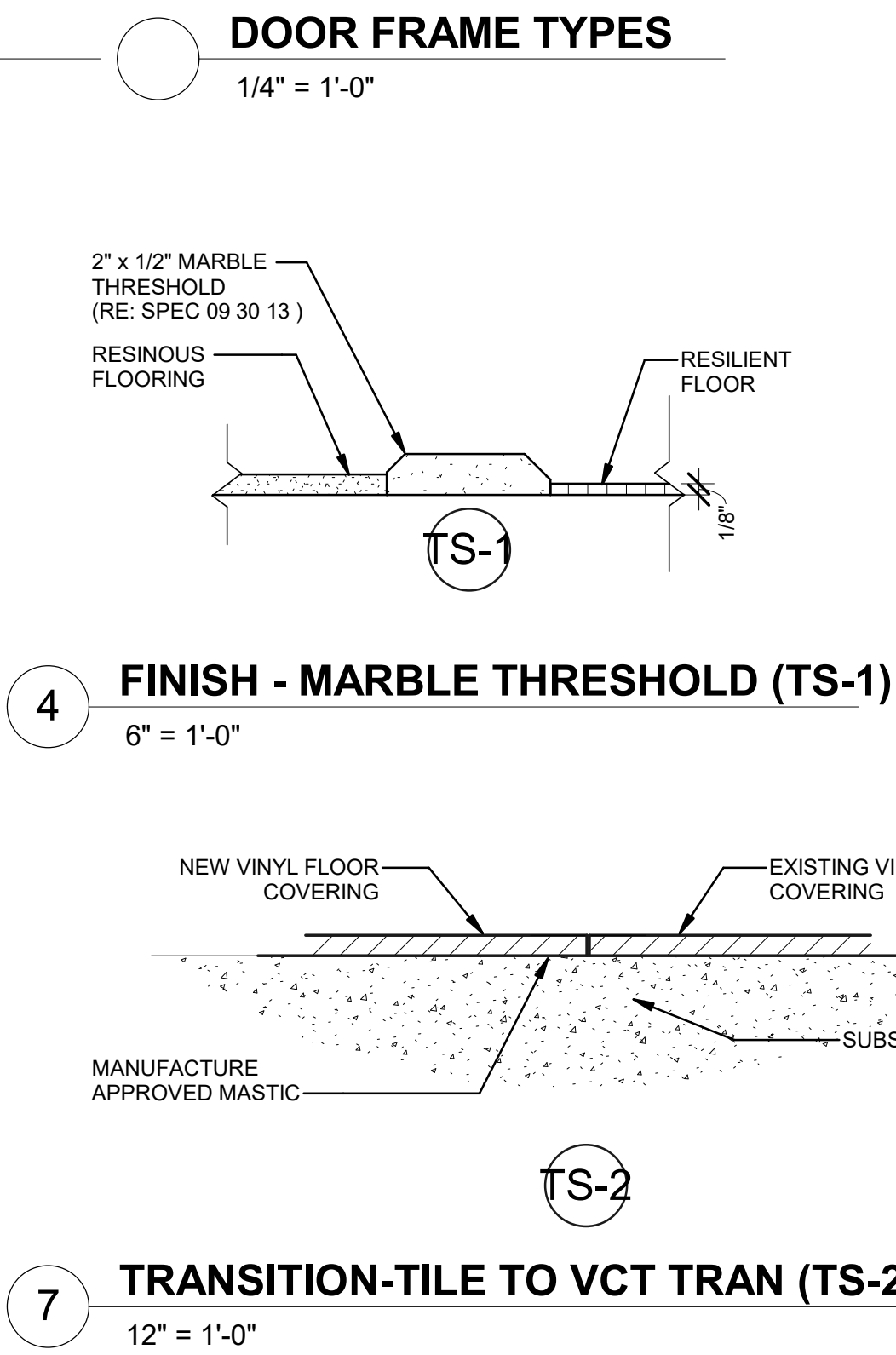
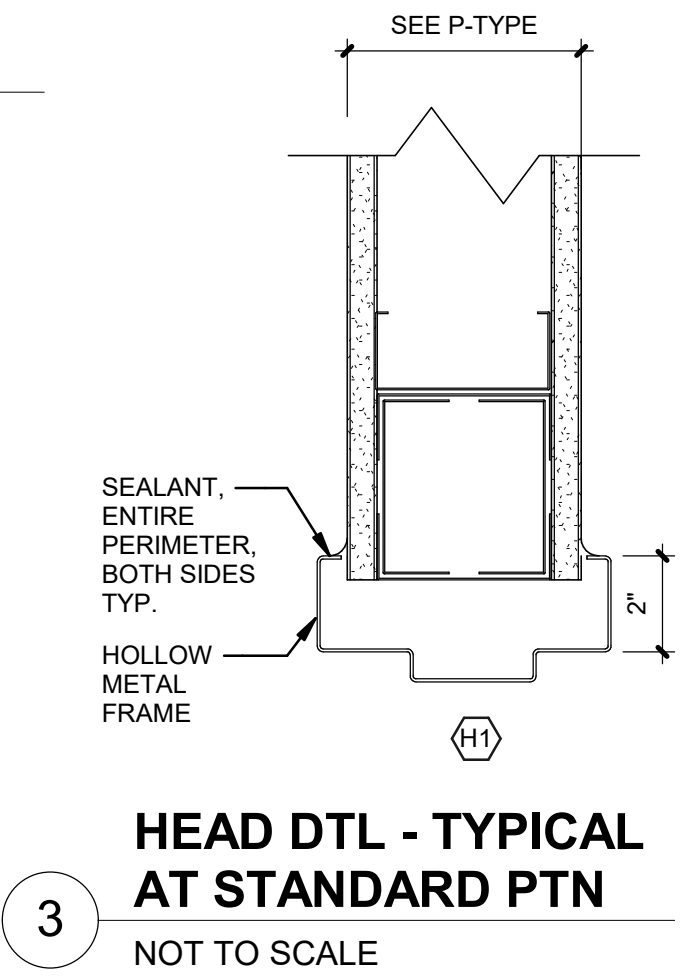
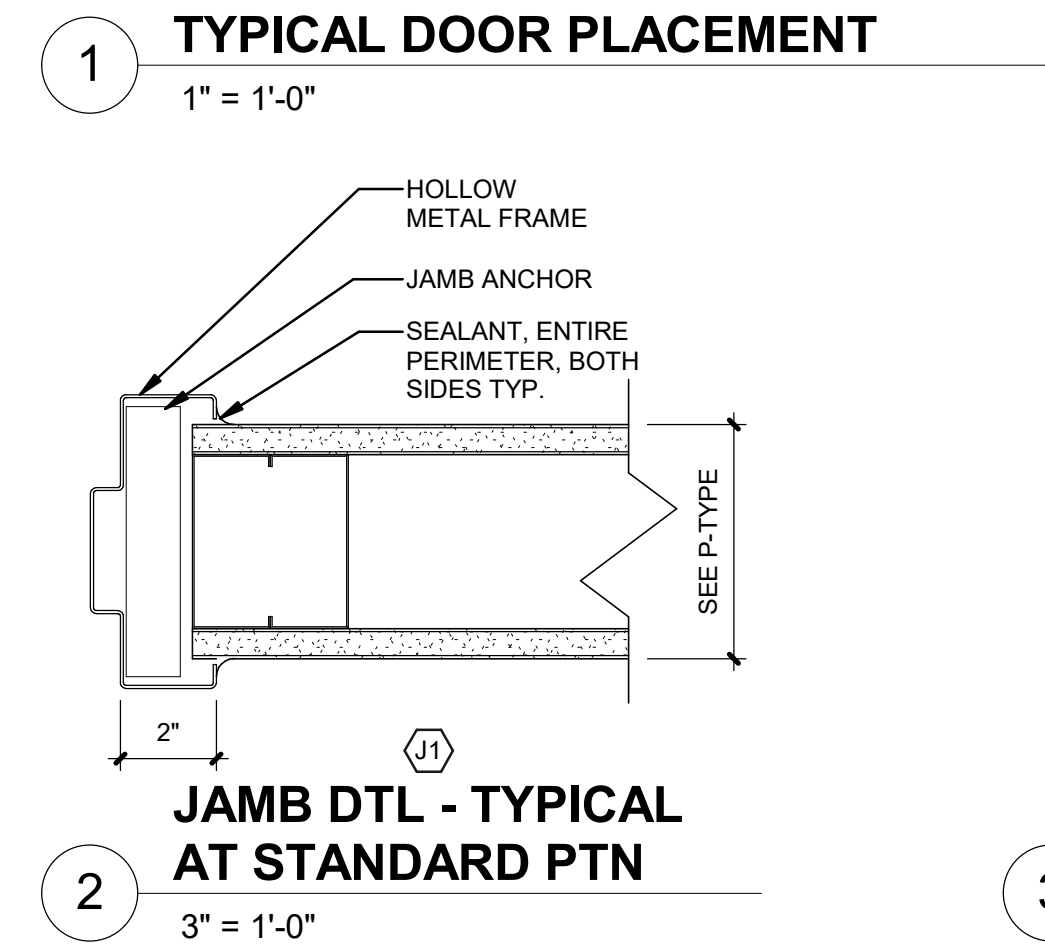
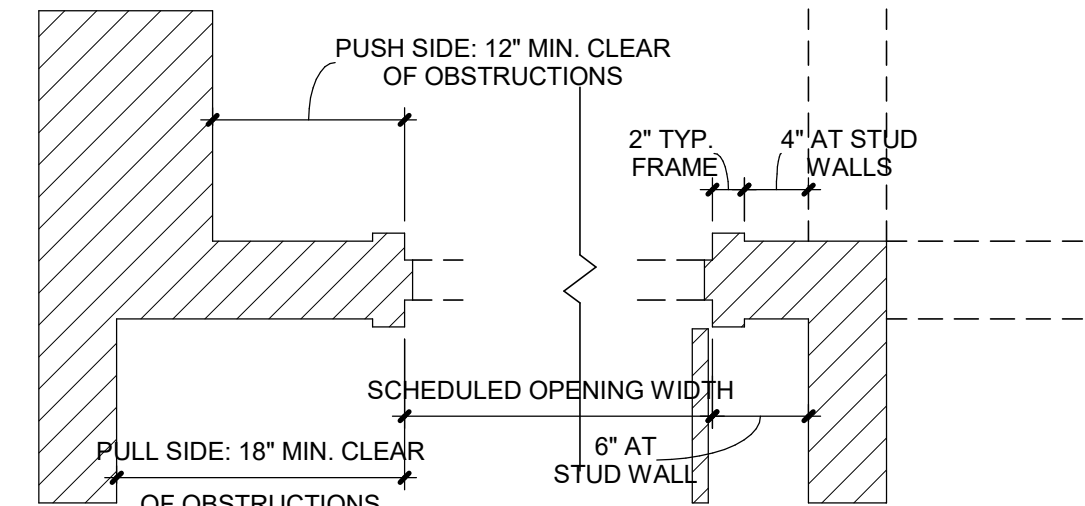
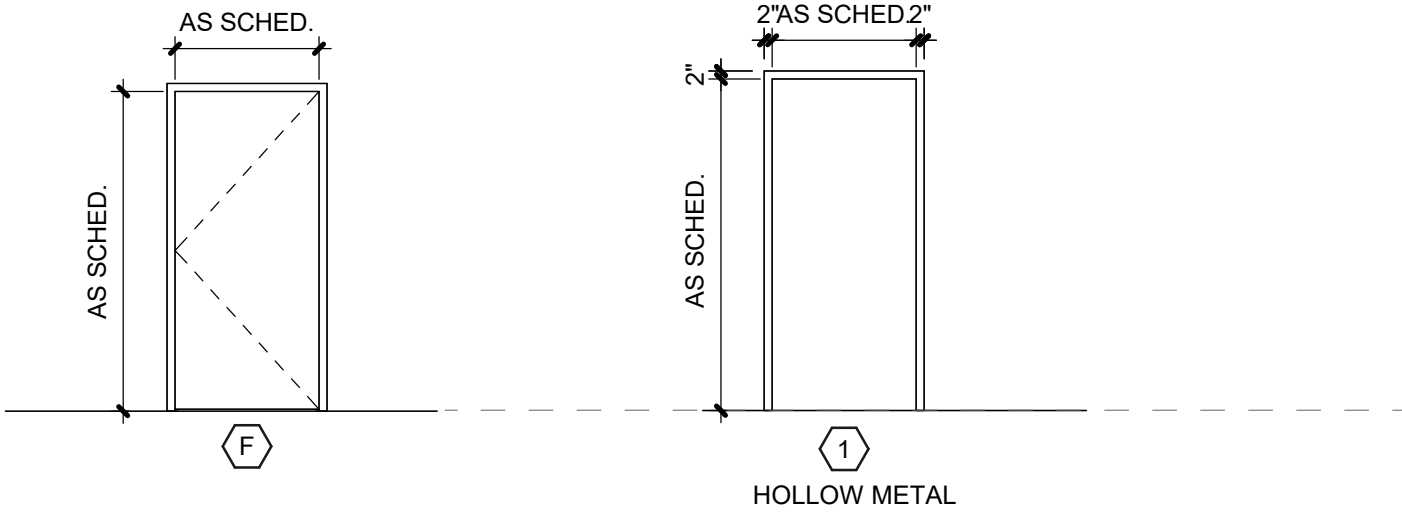


ROOM FINISH SCHEDULE													
ROOM		FLOOR		WALLS								CEILINGS	COMMENTS
NO.	NAME	FLOOR	BASE	NORTH		EAST		SOUTH		WEST			
101	MEN'S TOILETS	RSF-1	RFB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	PT-3	
102	LOCKER ROOM	RSF-1	RFB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	PT-3	
103	SHOWERS	RSF-1	RFB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	PT-3	
104	MEN'S RESTROOM	RSF-1	RFB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	PT-3	
105	JANITOR	SC-1	RB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	CMU	PT-2	CMU	PT-2	ACT-1	
106	LACTATION ROOM	RSF-1	RFB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	ACT-1	
107	STORAGE	VCT-1	RB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	ACT-1	
108	WOMEN'S RESTROOM	RSF-1	RFB-1	GYP.BD./CMU	PT-2	GYP.BD./CMU	PT-2	CMU	PT-2	GYP.BD./CMU	PT-2	PT-3	
109	SHOWERS	RSF-1	RFB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	PT-3	
110	CORRIDOR	VCT-1	RB-1	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	GYP.BD.	PT-2	ACT-1	
111	CORRIDOR	VCT-1	RB-1					GYP.BD.	PT-2				EXISTING FINISHES TO REMAIN. PATCH TO MATCH EXISTING
112	CORRIDOR	VCT-1	RB-1					GYP.BD.	PT-2				EXISTING FINISHES TO REMAIN. PATCH TO MATCH EXISTING
113	ELECTRICAL		RB-1			CMU	PT-2						EXISTING FINISHES TO REMAIN. PATCH TO MATCH EXISTING
114	MAINTENANCE AREA												
115	ELECTRICAL												EXISTING TO REMAIN

MATERIAL FINISH LEGEND									
TYPE	SYMBOL	MATERIAL	MANUFACTURER	PATTERN	PATTERN NO.	COLOR	SIZE	COMMENTS	
CEILING	ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	FINE FISSURED SQUARE LAY IN	607	WHITE	24"X24"X5/8"	GRID: 15/16"	PRELUDE
FLOORING	RFT-1	RESINOUS FLOORING	STONEHARD	STONESHIELD URT		ASH			
FLOORING	SC-1	SEALED CONCRETE		LIQUID SEALER OVER EXPOSED CONCRETE		CLEAR			
FLOORING	VCT-1	VINYL FLOORING	TARKETT	VCT II		527 MILITARY TAN	12"X12"X1/8"		
MISC.	TP-1	TOILET PARTITION	BOBRICK	DURALINE		CITADEL WARP 5882-58		BLACK CORE	
MISC.	UP-1	URINAL PARTITION	BOBRICK	DURALINE		CITADEL WARP 5882-58		BLACK CORE	
PAINT	PT-1	PAINT	STONEHARD	STONGLAZE VSE		ASH GRAY		SHOWER WALL PAINT	
PAINT	PT-2	PAINT	SHERWIN WILLIAMS	EMERALD		EIDER WHITE SW7014		WALL PAINT	
PAINT	PT-3	PAINT	SHERWIN WILLIAMS	PREMIUM CEILING PAINT		WHITE		CEILING PAINT	
PAINT	PT-4	PAINT	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED PRE CATALYZED EPOXY	SEMI GLOSS	INKWELL SW6992		DOOR & FRAME PAINT	
WALL TRIM	RB-1	RUBBER WALL BASE	JOHNSONITE	RUBBER WALL BASE		BLACK	4"		
WALL TRIM	RFB-1	RESINOUS BASE	STONEHARD	STONESHIELD URT		ASH	6"	@ SHOWERS	

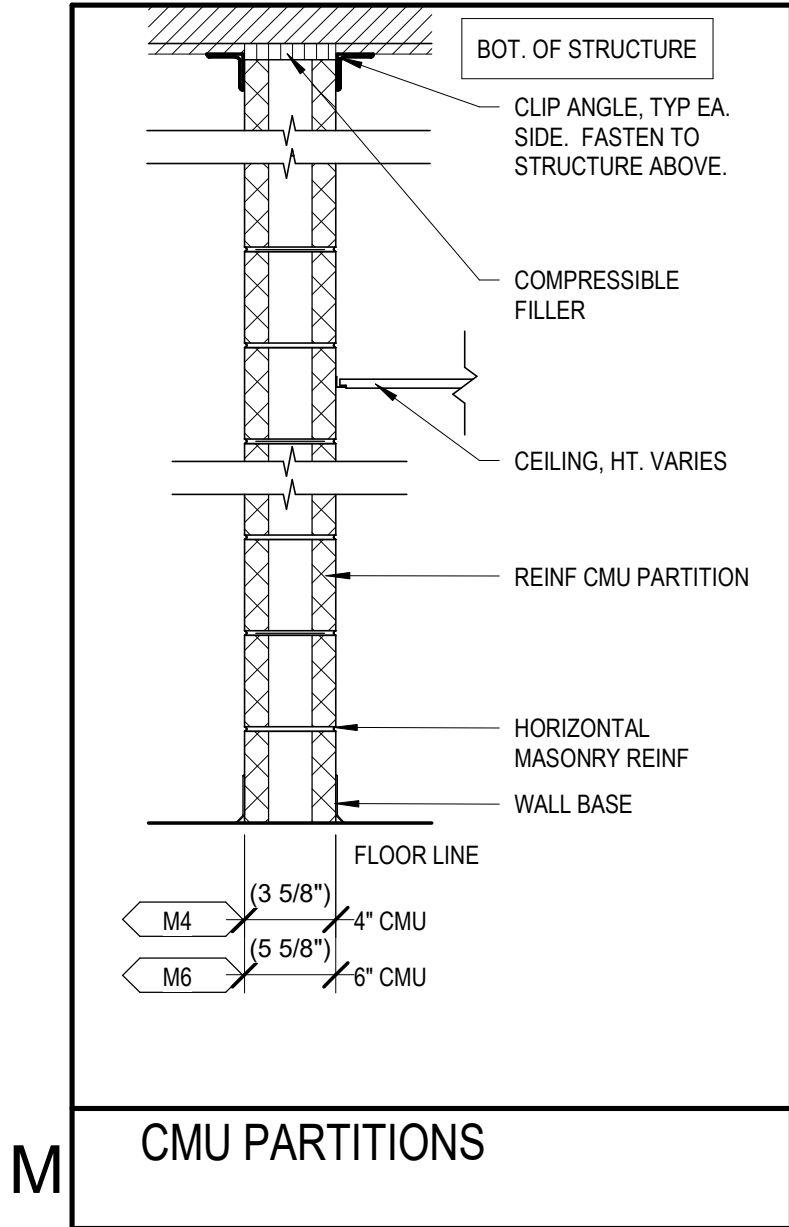
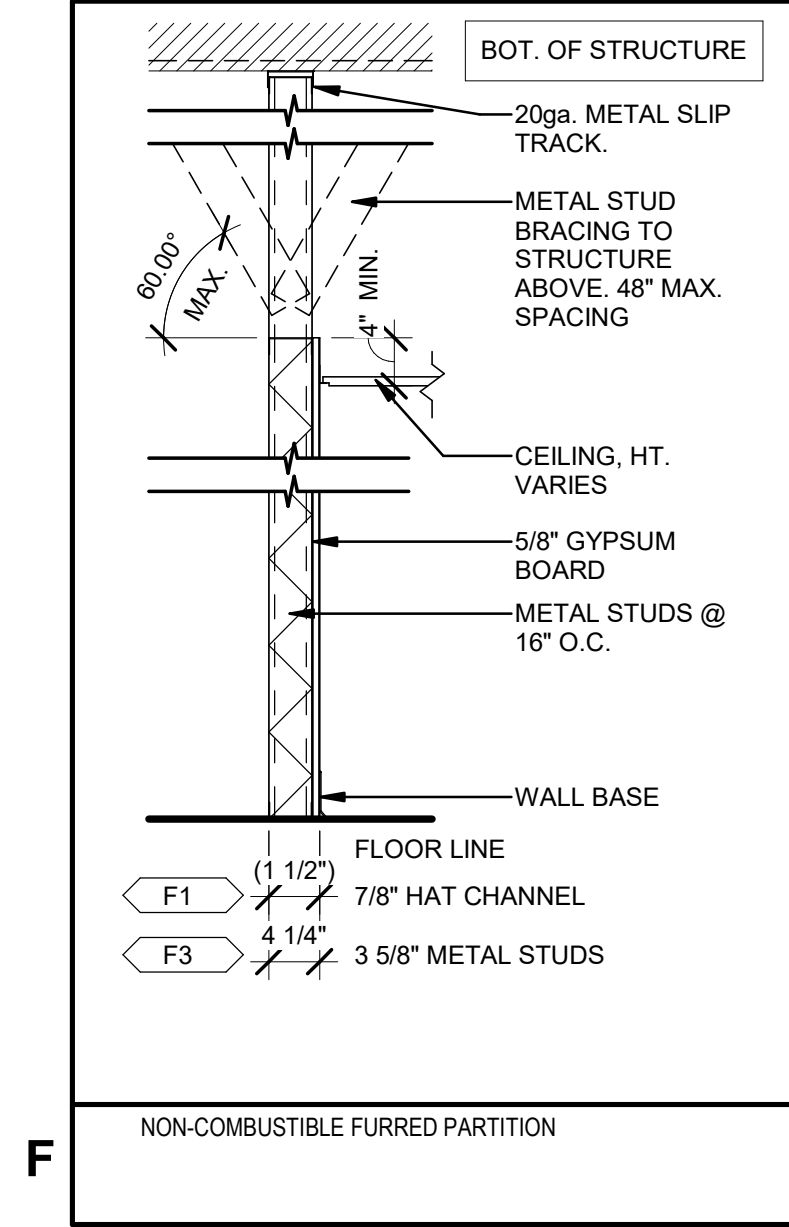
DOOR SCHEDULE												
NUMBER	TYPE	DOOR			FRAME			FRAME DETAILS		FIRE RATING	HARDWARE SET	COMMENTS
		WIDTH	HEIGHT	THICKNESS	DOOR MATERIAL	FRAME TYPE	FRAME FINISH	HEAD	JAMB			
104	F	3'-0"	6'-8"	1 3/4"	HM	1	PT-4	H1	J1		2	
105	F	3'-0"	6'-8"	1 3/4"	HM	1	PT-4	H1	J1		1	
106	F	3'-0"	6'-8"	1 3/4"	HM	1	PT-4	H1	J1		3	
107	F	3'-0"	6'-8"	1 3/4"	HM	1	PT-4	H1	J1		1	
108	F	3'-0"	6'-8"	1 3/4"	HM	1	PT-4	H1	J1		2	
110	F	3'-0"	6'-8"	1 3/4"	HM	1	PT-4	H1	J1		3	

GENERAL DOOR NOTES									
1.	FIELD VERIFY ALL EXISTING DOOR OPENINGS.								
2.	ALL METAL DOORS TO BE 1 3/4" HOLLOW METAL (STEEL).								
3.	ALL WOOD DOORS TO BE 1 3/4" SOLID CORE WOOD.								
4.	SEE SCHEDULE FOR DOOR MATERIALS AND SPECIAL CONDITIONS SUCH AS VISION PANELS, LOUVERS, REQUIRED U.L. LABELS, ETC.								
5.	SEE SPECS FOR DESCRIPTION OF HARDWARE GROUPS.								
6.	COORDINATE ALL ELECTRIC LATCHES AND CARD READERS WITH CARD ACCESS VENDOR.								
7.	SEE DOOR HARDWARE SPECIFICATIONS.								
	TYPICAL UNDERCUT AT DOORS TO BE 3/8" AT THRESHOLDS AND 3/4" AT ALL OTHER LOCATIONS. MAX UNDERCUT AT FIRE RATED DOORS IS 3/4" PER NFPA 80.								



GENERAL NOTES - PARTITIONS									
A.	USE TYPE 'X' GYP. BD. AT ALL FIRE RATED PARTITION.								
B.	ALL GYP. BD. IS TO BE MOLD AND MOISTURE RESISTANT TYPE (TYP.) IN ADDITION TO INDICATED REQUIREMENTS.								
C.	CEMENTITIOUS BACKER BOARD TO BE USED IN ALL AREAS WITH TILE.								
D.	ALL RESTROOM PARTITIONS, RESTROOM CEILINGS, AND PLUMBING CHASE PARTITIONS TO RECEIVE 5/8\"/>								
E.	ALL FIRE RATED PARTITIONS WILL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. IDENTIFICATION WILL BE LOCATED IN ACCESSIBLE FLOOR-CEILING SPACES, LOCATED EVERY 30 FEET HORIZONTALLY ALONG THE PARTITION, AND LETTERING WILL BE MIN. OF 1/2\"/>								
F.	REFER TO STC SCHEDULE THIS SHEET FOR ROOM STC RATINGS.								
G.	WHERE REQUIRED, WALLS WILL HAVE CONCEALED METAL STRAP BACKING SIZED TO ACCOMMODATE THE WEIGHT OF THE MOUNTED ITEM.								

PARTITION TYPE LEGEND									
PARTITION TYPE									
C	CHASE / CAVITY								
E	EXTERIOR WALL FURRING								
F	NON-COMBUSTIBLE FURRED PARTITION W/ INSUL.								
G	GW B PARTITION								
L	LEAD-LINED								
M	MASONRY								
S	SHAFT WALL								
MATERIALS									
1	1 5/8" METAL STUDS + 1/2" GWB								
2	2 1/2" METAL STUDS + 5/8" GWB								
3	3 5/8" METAL STUDS + 5/8" GWB								
4	3 5/8" METAL STUDS + 1/2" GWB (2 LAYERS) + 5/8" GWB								
5	3 5/8" METAL STUDS + 1/2" GWB								
6	6" METAL STUDS + 5/8" GWB								
7	3 5/8" METAL STUDS + 5/8" GWB + 5/8" CEMENT BACKER BD.								
8	8" CONCRETE MASONRY UNIT								
10	10" THICKNESS FROM GWB TO GWB								
12	12" CONCRETE MASONRY UNIT								
15	15" THICKNESS FROM GWB TO GWB								
18	18" THICKNESS FROM GWB TO GWB								
FIRE / SMOKE PROTECTION									
B	SMOKE BARRIER								
F	FIRE RATED PARTITION								
S	SMOKE PARTITION								
-	NOT APPLICABLE								
SPECIAL CONDITIONS									
A	STC RATED - REFER TO PARTN TYPE FOR RATING								
P	PSYCHIATRIC								
FIRE RESISTANCE RATING									
1	(1) ONE HOUR RATING								
2	(2) TWO HOUR RATING								
3	(3) THREE HOUR RATING								
4	(4) FOUR HOUR RATING								
-	NOT APPLICABLE								



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

ARCHITECTURE & ENGINEERING



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OF AUTHORITY #000148



BRADFORD A. PIERCE
AR005809

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Bridgeton, MO 63044

PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 04-16-2025

CAD DWG FILE:
DRAWN BY: CJM/DCR
CHECKED BY: BAP
DESIGNED BY: CJM/DCR


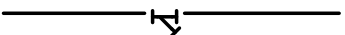
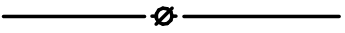
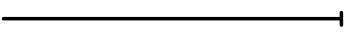
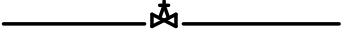












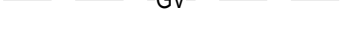
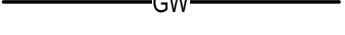
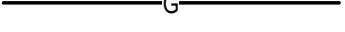
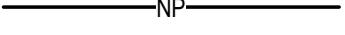




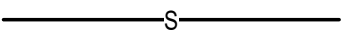



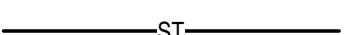
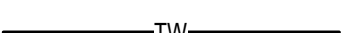




SHEET TITLE:
INTERIOR LEGENDS &
SCHEDULES

SHEET NUMBER:






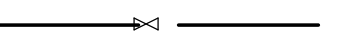





A701

04-16-2025 SHEET 8 OF 31

GENERAL NOTES
1. DUE TO THE LIMITED SPACE AVAILABLE FOR THE INSTALLATION OF ALL THE PLUMBING WORK, COORDINATION BETWEEN ALL OTHER TRADES IS OF UTMOST IMPORTANCE.
2. THIS CONTRACTOR SHALL VISIT THE PROJECT SITE AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF COLD WATER, HOT WATER, SANITARY WASTE AND VENT, STORM AND MEDICAL LABORATORY GAS PIPING.
3. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARE TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE CODE COMPLYING SYSTEM. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
4. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THIS CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS. SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
5. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR SHALL INCLUDE, BUT NOT LIMITED TO, ANY EXISTING WALL, CEILING OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING, AND PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
6. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT AND MATERIALS REMOVED. HOWEVER, ALL FIXTURES, EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF THE BY THE DEMOLITION CONTRACTOR.
7. CEILING REMOVAL, STORAGE AND REPLACEMENT FOR NEW PIPING INSTALLATION SHALL BE BY THE GENERAL CONTRACTOR.
8. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL NOTIFY BUILDING OWNER OF THE HAZARDOUS MATERIAL.
9. TEMPORARY CONNECTION SHALL BE PROVIDED BY RESPECTIVE PLUMBING AND FIRE PROTECTION CONTRACTORS WHEN EXTENDED INTERRUPTIONS OF SERVICES AND UTILITIES SUCH AS WATER, WASTE AND FIRE PROTECTION WHICH SERVE OTHER AREAS ARE NECESSARY.
10. COORDINATE WITH MAINTENANCE PERSONNEL AS TO SOURCE OF UTILITIES AND TEMPORARILY DISCONNECT OR SHUT OFF SERVICES OR UTILITIES AT NEAREST MAIN. TEMPORARY AND ACCESSIBLE ISOLATION VALVES SHALL BE INSTALLED CLOSE TO THIS POINT OF WORK.
11. IT IS ESSENTIAL THAT BUILDING OPERATIONS CONTINUE WITH MINIMAL INTERRUPTIONS. IT IS NECESSARY THAT OPERATION OF EXISTING SYSTEMS BE INTERFACED WITH AS LITTLE DISRUPTION AS POSSIBLE EXCEPT IN AREAS VACATED FOR CONSTRUCTION WORK. WORK WHICH WILL INTERFERE WITH OPERATION OF EXISTING FIRE SUPPRESSION AND PLUMBING SYSTEMS OR WHICH REQUIRE DOWNTIME WILL BE SCHEDULED ONLY AFTER CONSULTATION WITH AND PERMISSION GIVEN BY THE OWNER. ALLOW 10 DAYS PRIOR TO ANTICIPATED INTERRUPTION OF SYSTEMS. WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORKING HOURS.
12. ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THESE DRAWINGS.
13. ALL PIPING HANGERS AND SUPPORTS SHALL BE REMOVED ALONG WITH PIPING BEING REMOVED.
14. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PROJECT'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK.
15. WHEN PLACING NEW PLUMBING FIXTURES, CONTRACTOR SHALL VERIFY LOCATIONS OF PLUMBING VENTS. OFFSET VENTS THAT TERMINATE WITHIN 25 FEET OF HVAC UNITS OUTDOOR AIR INTAKES. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID WHERE THE INTERFERENCES ARE PRICE ACCORDINGLY OR MAKE ALLOWANCES IN BID.
16. USE CAUTION WHEN SAW-CUTTING THROUGH EXISTING CONCRETE FLOOR OR WALL CONSTRUCTION FOR THE INSTALLATION OF PLUMBING SYSTEMS TO AVOID CUTTING REBAR AT EDGE OF OPENING. LEAVE SUFFICIENT REBAR EXPOSED TO TIE NEW REINFORCING REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS FOR NEW CONSTRUCTION.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE NEW OR EXISTING AND TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.

PLUMBING SYMBOLS & ABBREVIATIONS
NOT ALL SYMBOLS ARE USED FOR THIS PROJECT
 TRAPPED CONNECTION
 STRAINER
 BALANCING VALVE
 CLEANOUT (CO)
 OS & Y GATE VALVE
 TEMPERATURE GAUGE
 THERMOSTATIC MIXING VALVE
 REDUCED PRESSURE BACKFLOW PREVENTER
 HOSE BIBB/WALL HYDRANT
 ACID VENT PIPING
 ACID WASTE PIPING
 DOMESTIC COLD WATER PIPING (CW)
 DOMESTIC HOT WATER PIPING (HW)
 DOMESTIC HOT WATER RETURN PIPING (HWR)
 DRAIN PIPING
 DEIONIZED WATER PIPING
 GREASE VENT PIPING
 GREASE WASTE PIPING
 NATURAL GAS PIPING
 NON-POTABLE WATER PIPING
 OVERFLOW STORM PIPING
 OIL WASTE PIPING
 PUMP DISCHARGE PIPING
 REVERSE OSMOSIS PIPING (RO)
 SANITARY PIPING
 SOFTENED COLD WATER PIPING
 SOFTENED HOT WATER PIPING
 SUBSOIL DRAINAGE PIPING
 STORM PIPING
 TEMPERED WATER PIPING
 VENT PIPING
 WASTE PIPING
 FLEXIBLE CONNECTION
 FLOOR DRAIN/FLOOR SINK (FD/FS)
 CIRCULATION PUMP

DRAWING REFERENCES
1 TITLE PLAN DETAIL REFERENCE TITLE
KEYED NOTE DESIGNATION
PLAN NORTH TRUE NORTH NORTH ARROW
AHU 1 PLAN MARK EQUIPMENT DESIGNATION REFER TO MEP SCHEDULE FOR CIRCUITING AND DEVICE REQUIREMENTS AND FLOOR PLANS FOR LOCATIONS
1 SIM EQUIPMENT NUMBER
1 A101 PLAN MARK ENLARGED PLAN REFERENCE SHEET NUMBER
1 AD888 SECTION
INTERFACE, EXISTING TO NEW
EXTENT OF DEMOLITION
MATCHLINE
1 REVISION TAG
LINE TYPE LEGEND
EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE)
NEW WORK BY THIS CONTRACTOR (DARK, SOLID LINE)
EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS)

COMMON PIPING SYMBOLS & ABBREVIATIONS
NOT ALL SYMBOLS ARE USED FOR THIS PROJECT
 DIRECTION OF FLOW
 BRANCH CONNECTION, BOTTOM
 BRANCH CONNECTION, TOP
 ELBOW, TURNED DOWN
 ELBOW TURNED UP
 SHUTOFF VALVE
 CHECK VALVE
 PRESSURE REDUCING VALVE
 PRESSURE GAUGE
 UNION
 PIPING CAP
X # RISER DESIGNATION
AFF ABOVE FINISH FLOOR
AHJ AUTHORITIES HAVING JURISDICTION
AP ACCESS PANEL
BOP BOTTOM OF PIPE
DIA DIAMETER
DN DOWN
EX OR EXIST EXISTING
FFE FINISHED FLOOR ELEVATION
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
HP HORSEPOWER
IE OR INV. ELEV INVERT ELEVATION
NC NORMALLY CLOSED
NTS NOT TO SCALE
PSI POUNDS PER SQUARE INCH
RPM REVOLUTIONS PER MINUTE
RI ROUGH-IN
SOV SHUTOFF VALVE
TDH TOTAL DYNAMIC HEAD
VIF VERIFY IN FIELD

PLUMBING ABBREVIATIONS
NOT ALL SYMBOLS ARE USED FOR THIS PROJECT
ADA AMERICANS WITH DISABILITIES ACT
A.F.F. ABOVE FINISH FLOOR
AP ACCESS PANEL
BP BOOSTER PUMP
BT BATHTUB
BTC BRANCH TO CONNECTION
CBV CALIBRATED BALANCING VALVE
CI CAST IRON
CO CLEANOUT
CSS CLINICAL SERVICE SINK
CW COLD WATER
DCVA DOUBLE CHECK VALVE ASSEMBLY
DF DRINKING FOUNTAIN
DI DEIONIZED WATER
DS DOWNSPOUT
DW DISHWASHER
DWH DOMESTIC WATER HEATER
EEW EMERGENCY EYE WASH
ESEW EMERGENCY SHOWER & EYE WASH
ESH EMERGENCY SHOWER
ET EXPANSION TANK
EWG ELECTRIC WATER COOLER
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
F.F. FINISH FLOOR ELEVATION
FS FLOOR SINK
G NATURAL GAS
GCO GRADE CLEANOUT
GD GARBAGE DISPOSAL
HB HOSE BIBB
HW HOT WATER
HWR HOT WATER RETURN
HWRP HOT WATER RETURN PUMP
HWST HOT WATER STORAGE TANK
I.E. INVERT ELEVATION
IM ICE MAKER
IW INDIRECT WASTE
LA LAVATORY
MB MOP BASIN
NIC NOT IN CONTRACT
NP NON-POTABLE
OB OUTLET BOX
ORD OVERFLOW ROOF DRAIN
PG PRESSURE GAUGE
PRV PRESSURE REDUCING VALVE
RD ROOF DRAIN
RH ROOF HYDRANT
RO REVERSE OSMOSIS
RPZ REDUCED PRESSURE BACKFLOW PREVENTER
S SANITARY
SCW SOFTENED COLD WATER
SH SHOWER
SHW SOFTENED HOT WATER
SK SINK
SOV SHUT OFF VALVE
SP SUMP PUMP
SS STAINLESS STEEL
SS SANITARY STACK
SSD SUBSOIL DRAINAGE
SSK SHOP SINK
TD TRENCH DRAIN
TMV THERMOSTATIC MIXING VALVE
TP TRAP PRIMER
TW TREATED WATER
UR URINAL
V VENT
VIV VALVE IN VERTICAL
VB VACUUM BREAKER
VS VENT STACK
VTR VENT THRU ROOF
W WASTE
WC WATER CLOSET
WCO WALL CLEANOUT
WD WASHER DRAIN
WH WALL HYDRANT
WHA WATER HAMMER ARRESTOR
WM WATER METER
WS WASTE STACK
WSV WASTE STACK VENT
YCO YARD CLEANOUT
YH YARD HYDRANT

STATE OF MISSOURI
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MICHAEL L. WYLAND
PE-2004021220

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Building 233

St. Louis Lambert Readiness
Center

10800 Lambert International
Rd.
Bridgeton, MO 63044

PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
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DATE: _____
ISSUE DATE: 4-16-2025

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

SHEET TITLE:
PLUMBING SYMBOLS
AND ABBREVIATIONS

SHEET NUMBER:

P000

#	SHEET KEYNOTES
1.	TEMPORARILY CAP PIPING IN PREPARATION FOR A NEW CONNECTION.

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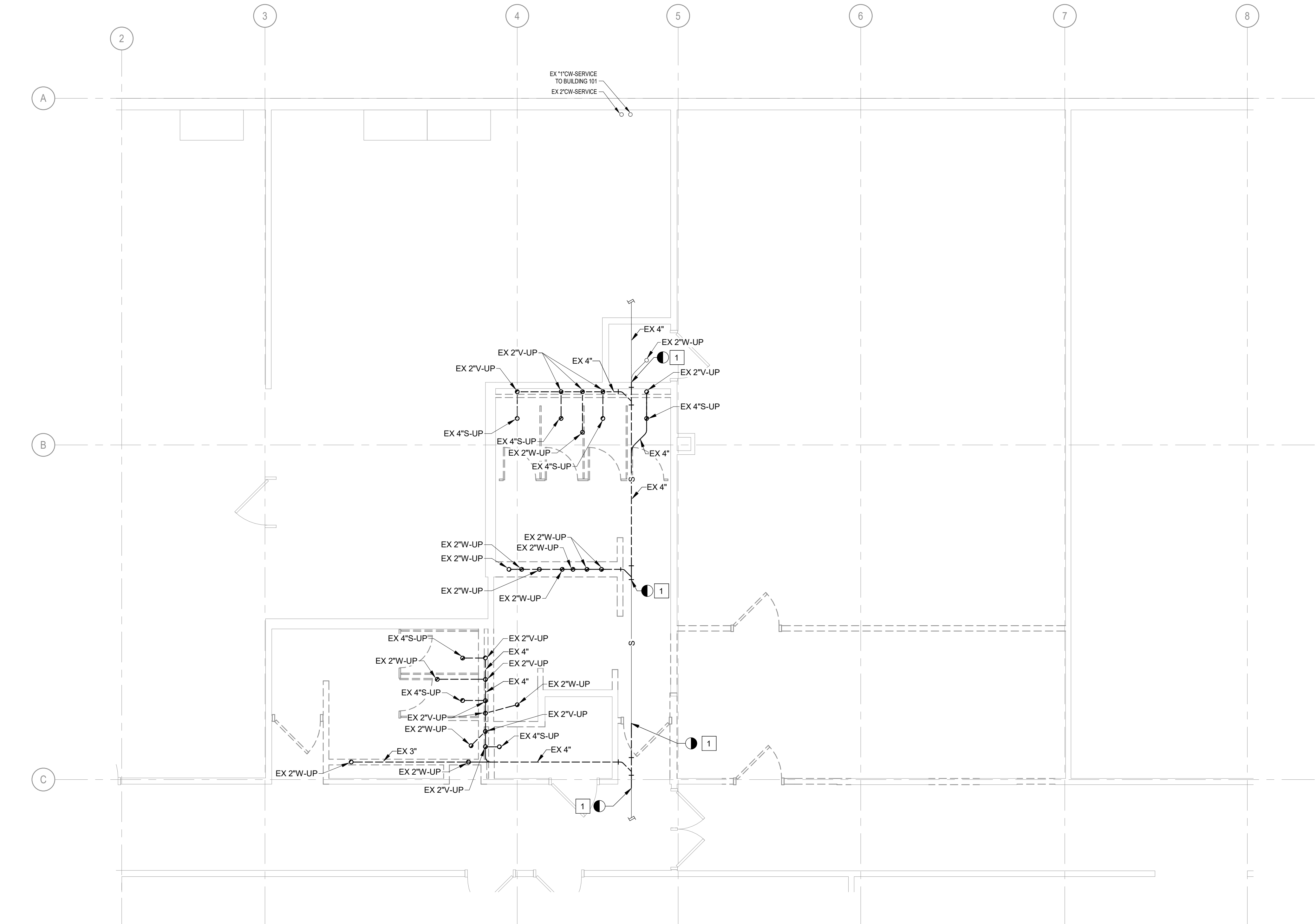
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CHECKED BY: AJH
DESIGNED BY: MAS

SHEET TITLE:
PLUMBING
UNDERFLOOR PLANS -
DEMO

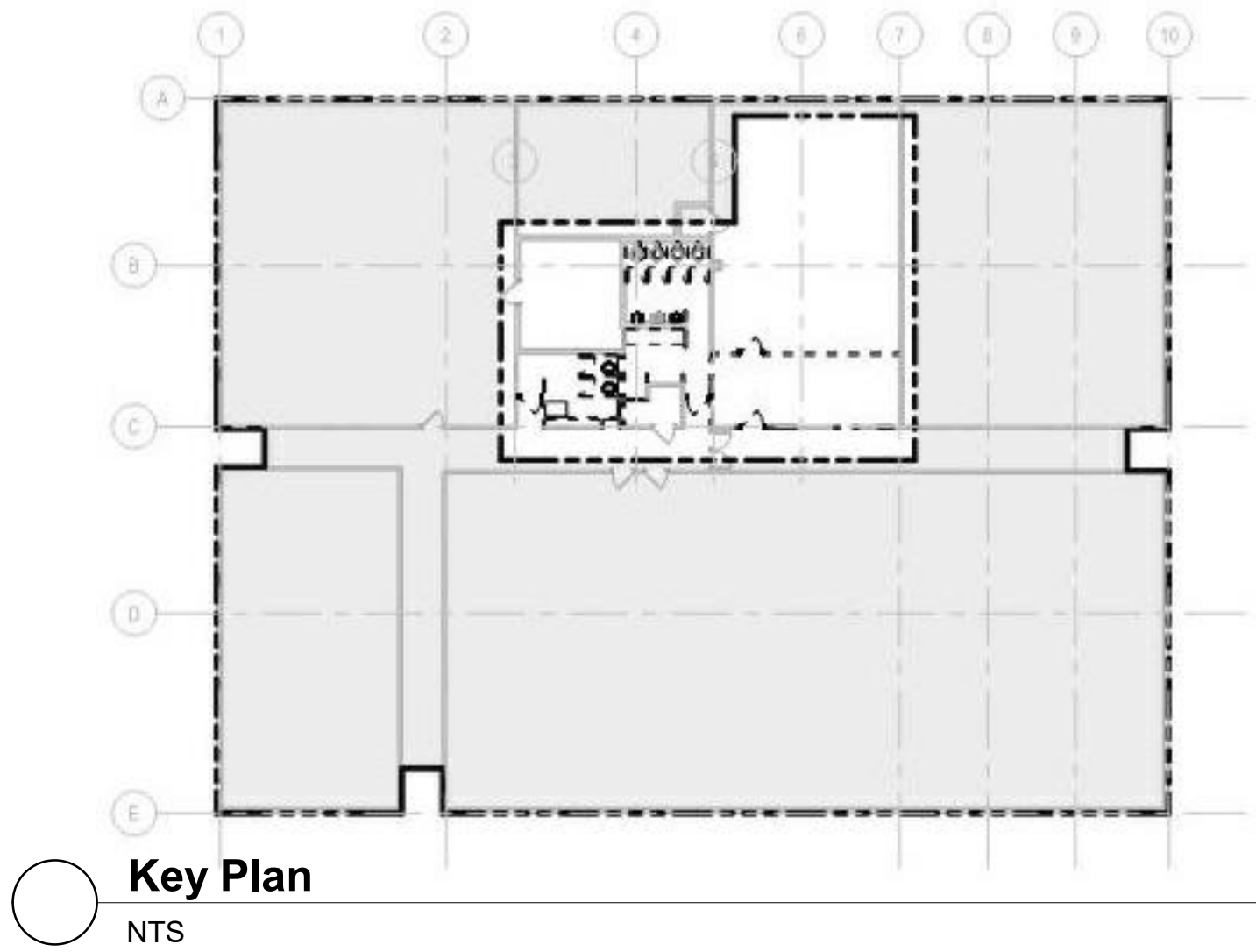
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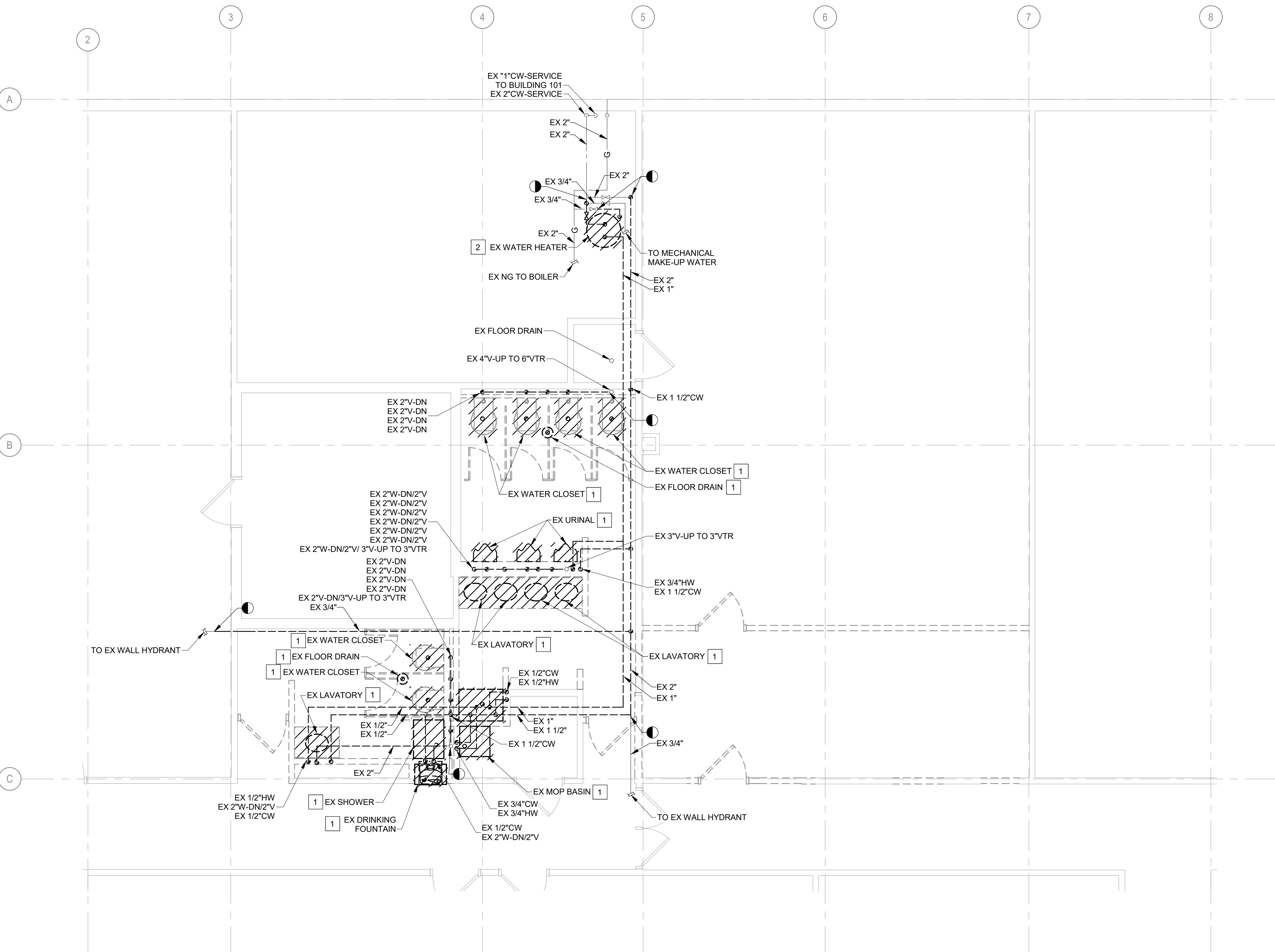
4-16-2025 SHEET 10 OF 31



1 PLUMBING UNDERFLOOR PLAN - DEMO
1/4" = 1'-0"

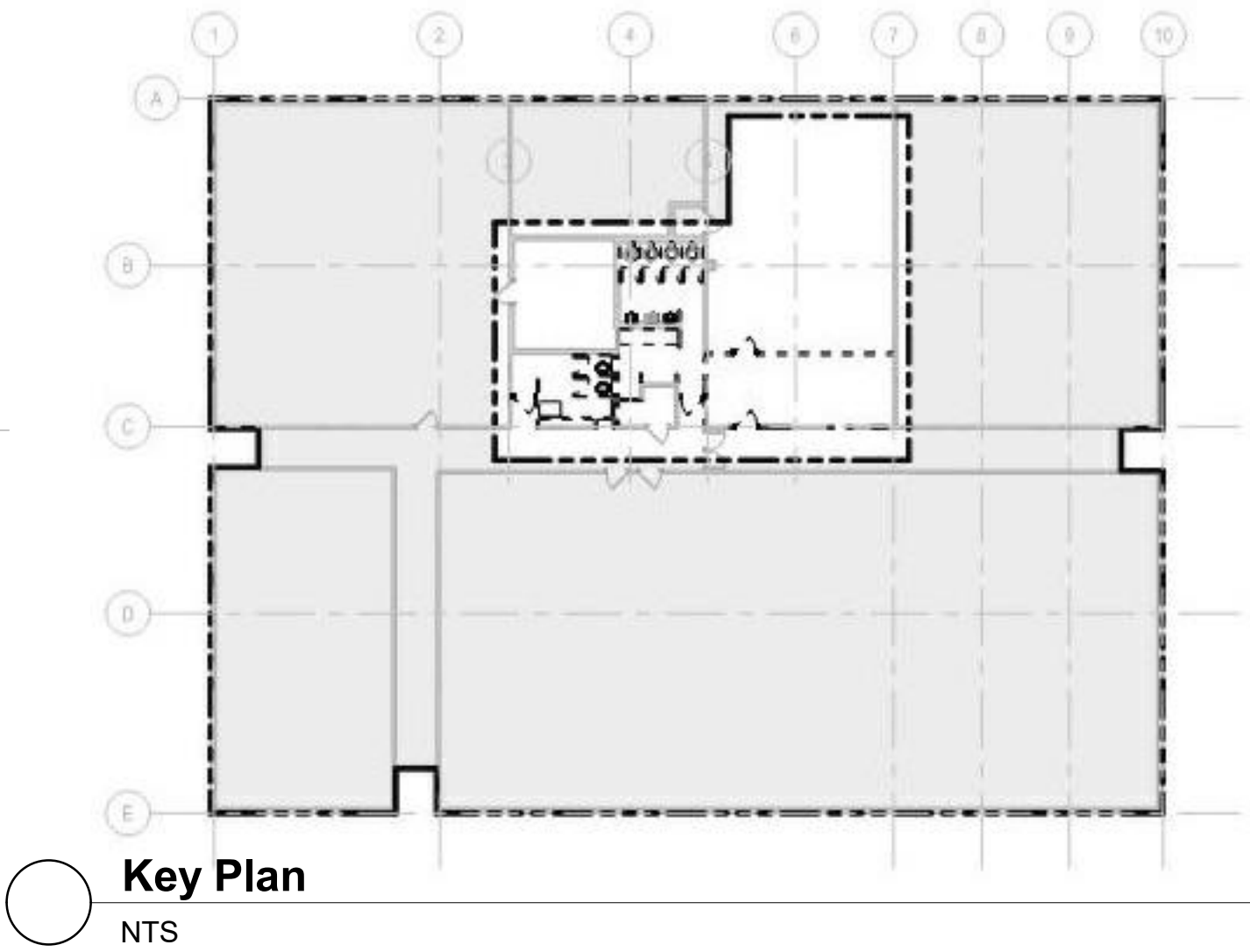


Key Plan
NTS



1 PLUMBING MAIN LEVEL - DEMO
1/4" = 1'-0"

#	SHEET KEYNOTES
1.	EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED COMPONENTS TO BE REMOVED. EXISTING DOMESTIC WATER TO BE REMOVED BACK TO NEAREST ACTIVE MAIN OR VALVE AND CAPPED. EXISTING SANITARY TO BE REMOVED BELOW FLOOR TO NEAREST MAIN AND CAPPED. EXISTING VENT TO BE REMOVED BACK TO NEAREST MAIN OR BRANCH ABOVE CEILING AND CAPPED.
2.	EXISTING WATER HEATER AND ALL ASSOCIATED COMPONENTS TO BE REMOVED IN ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR FLUE DEMOLITION.



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MICHAEL L. WYLAND
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CAD DWG FILE: _____
DRAWN BY: MAS
CHECKED BY: AJH
DESIGNED BY: MAS

SHEET TITLE:
PLUMBING FLOOR
PLANS - DEMO

SHEET NUMBER:

P101

#

SHEET KEYNOTES

1. SAW CUT CONCRETE SLAB FOR INSTALLATION OF NEW WASTE AND/OR STORM SYSTEM (HOLDING CUTTING TO A MINIMUM). REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.


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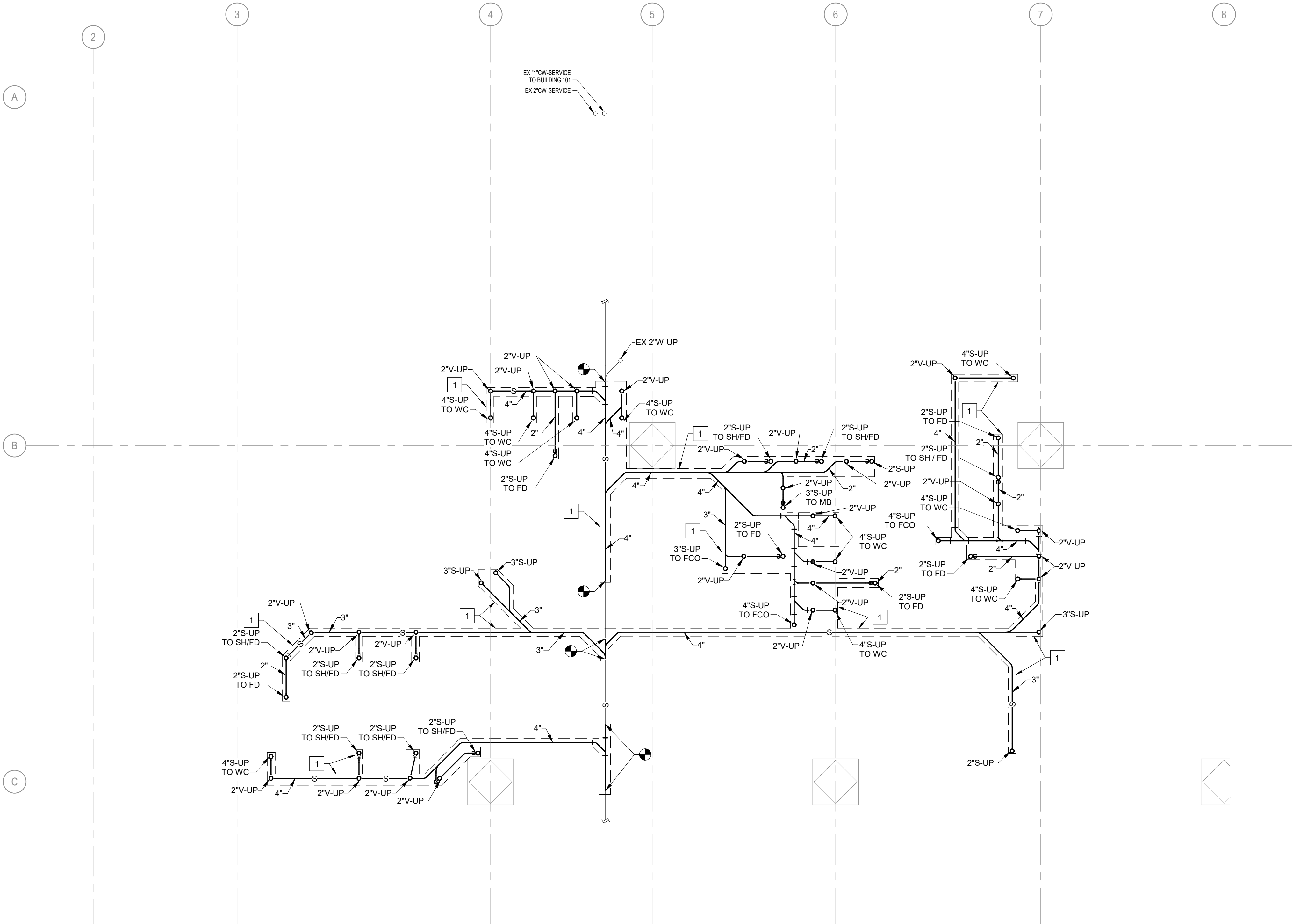
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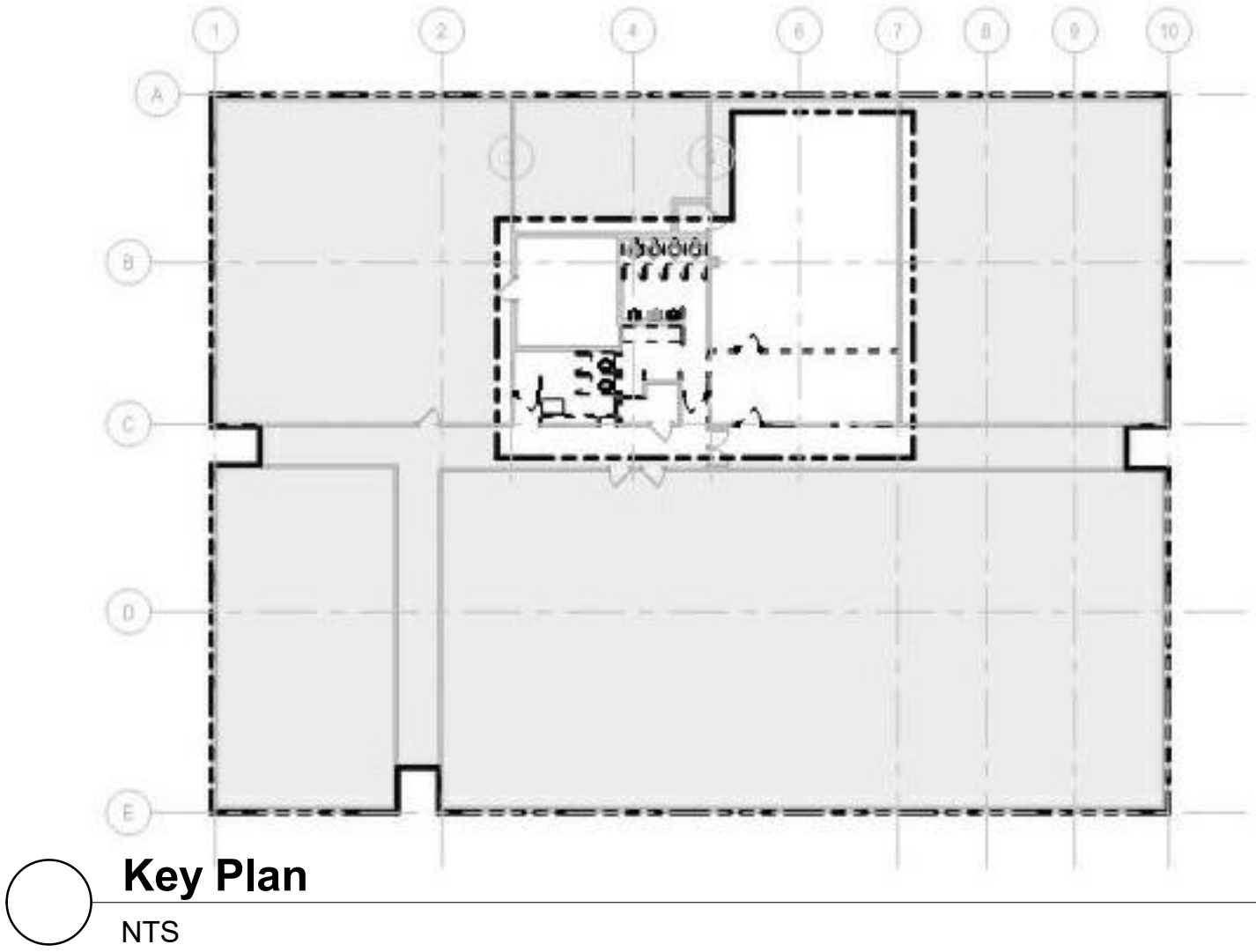
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CHECKED BY: AJH
DESIGNED BY: MAS

SHEET TITLE:
PLUMBING
UNDERFLOOR PLANS -
NEW WORK

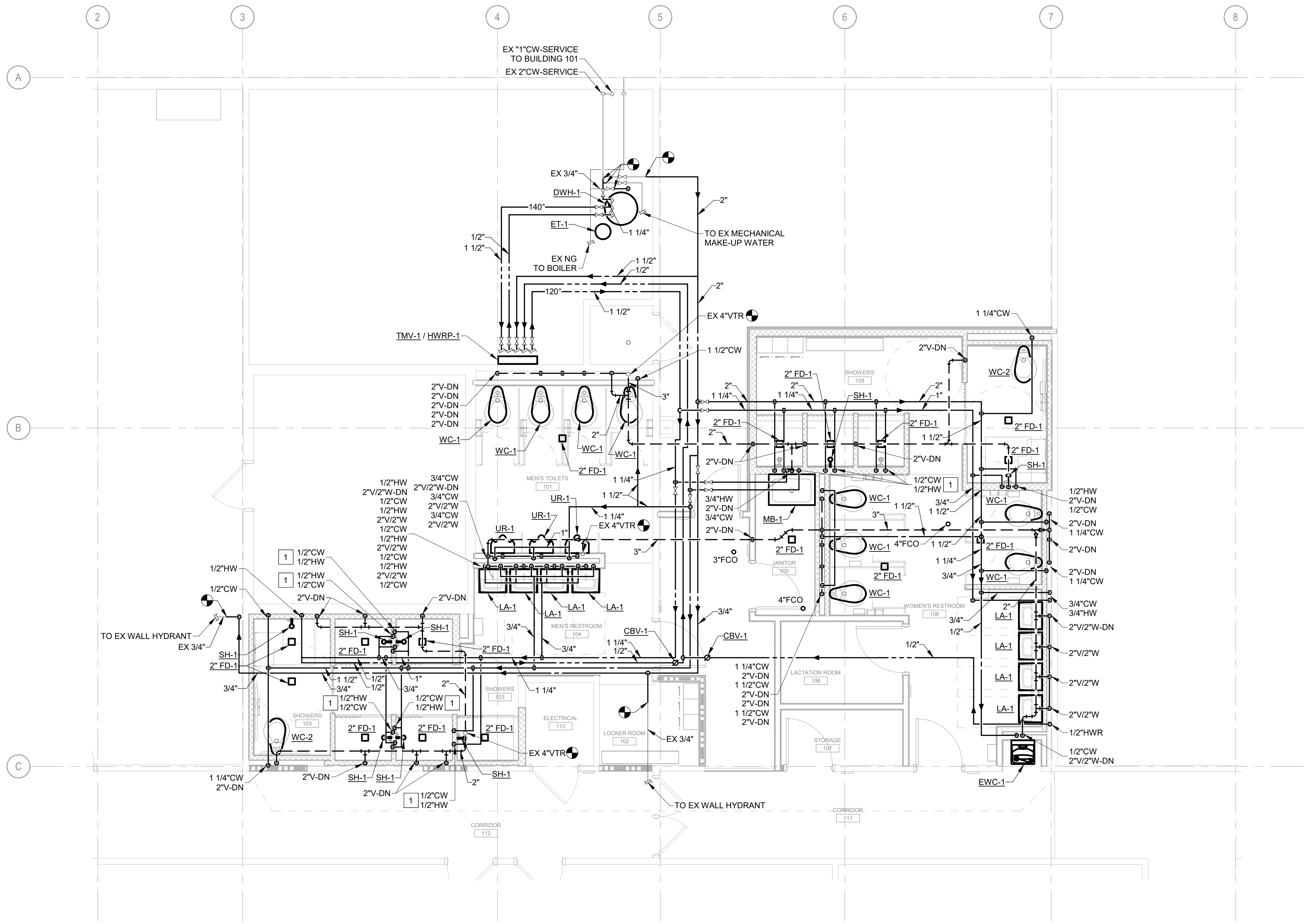
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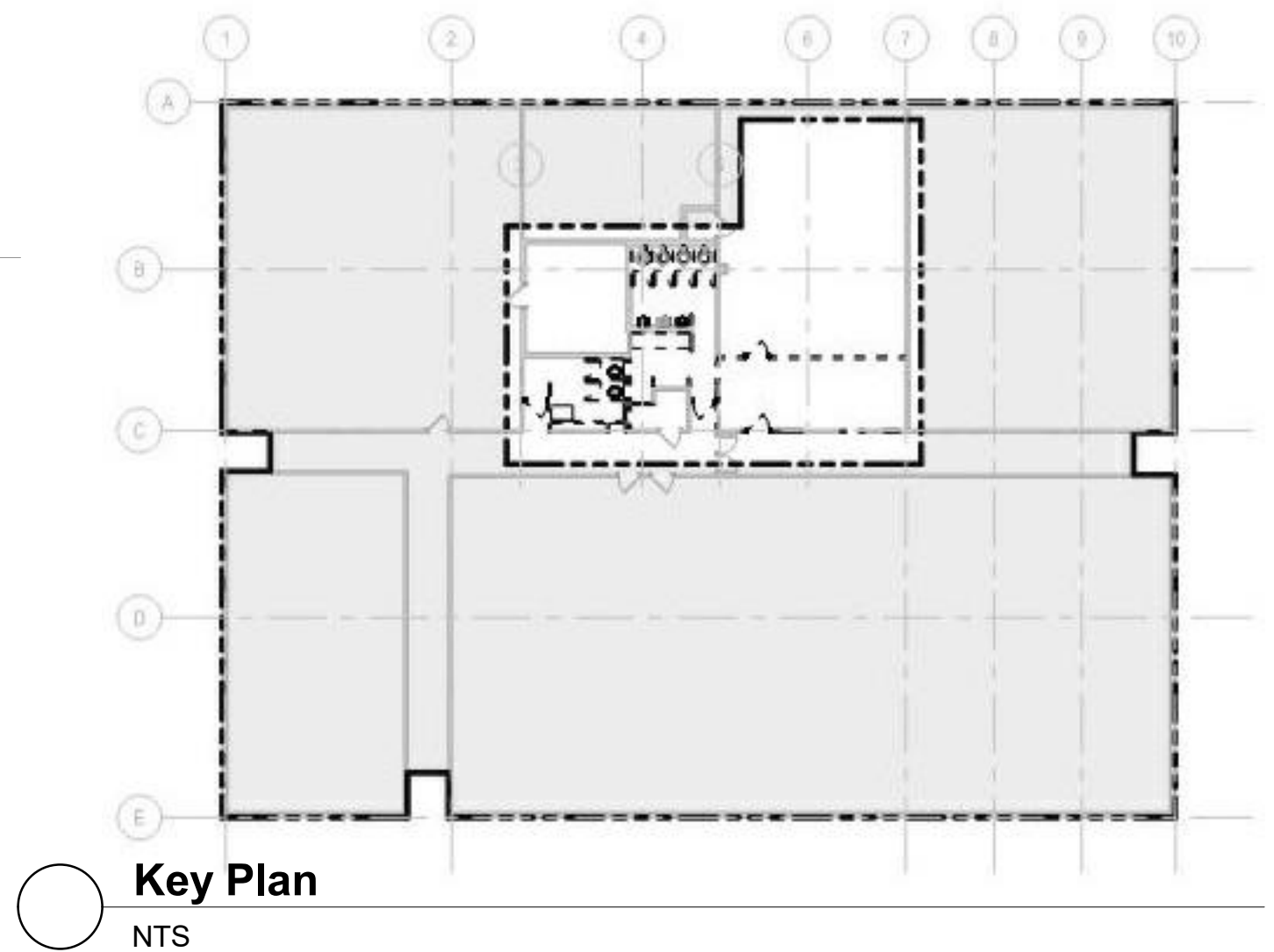
1 PLUMBING UNDERFLOOR PLAN - NEW WORK
1/4" = 1'-0"



- # SHEET KEYNOTES
1. MOUNT HOT AND COLD WATER ON WALL TO FEED SHOWER UNIT. PIPING LOCATION AND INSTALLATION TO BE COORDINATED WITH SHOWER ENCLOSURE.



1 PLUMBING MAIN LEVEL - NEW WORK
1/4" = 1'-0"



Key Plan
NTS



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**OFFICE OF
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MANAGEMENT,
DESIGN AND
CONSTRUCTION**

MISSOURI ARMY
NATIONAL GUARD

Latrines & Shower Renovations Building 233

St. Louis Lambert Readiness
Center

10800 Lambert International
Rd.
Bridgeton, MO 63044

PROJECT #	T2417-01
SITE #	6280
ASSET #	81362800001

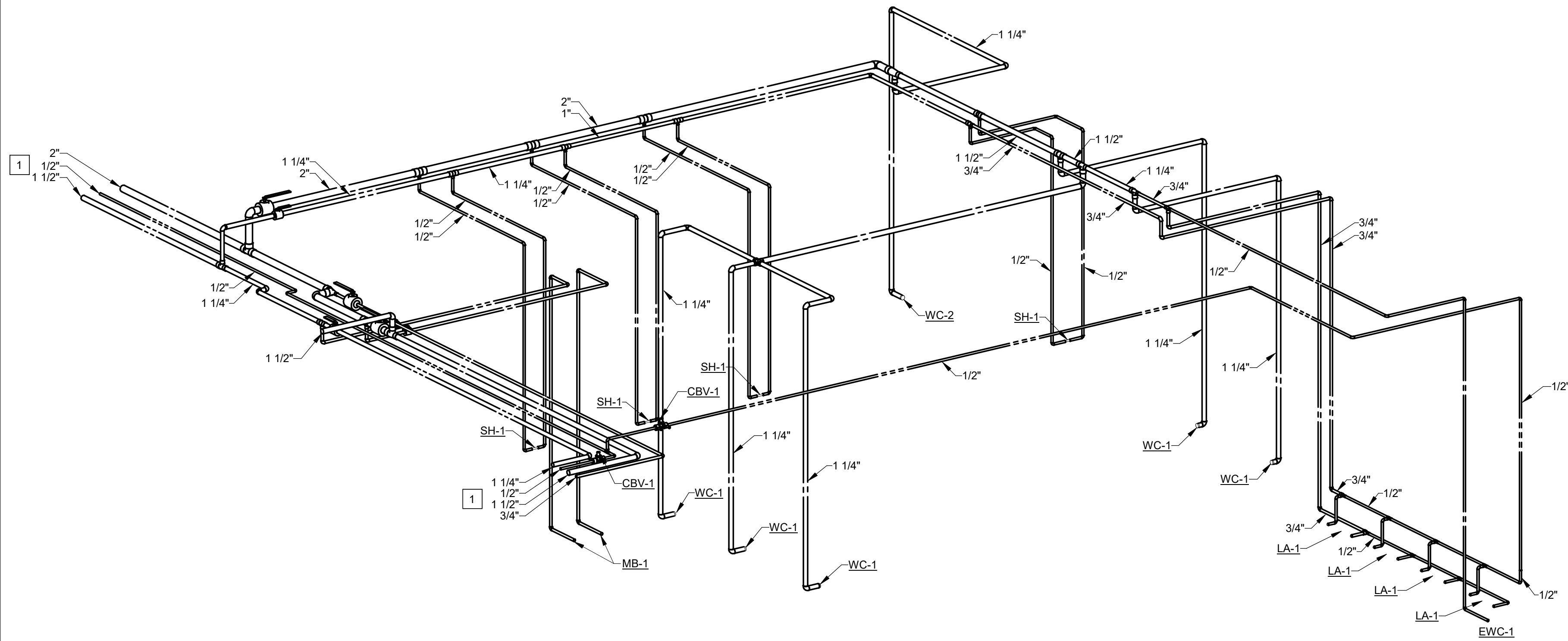
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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 4-16-2025

CAD DWG FILE: _____
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 CHECKED BY: AJH
 DESIGNED BY: MAS

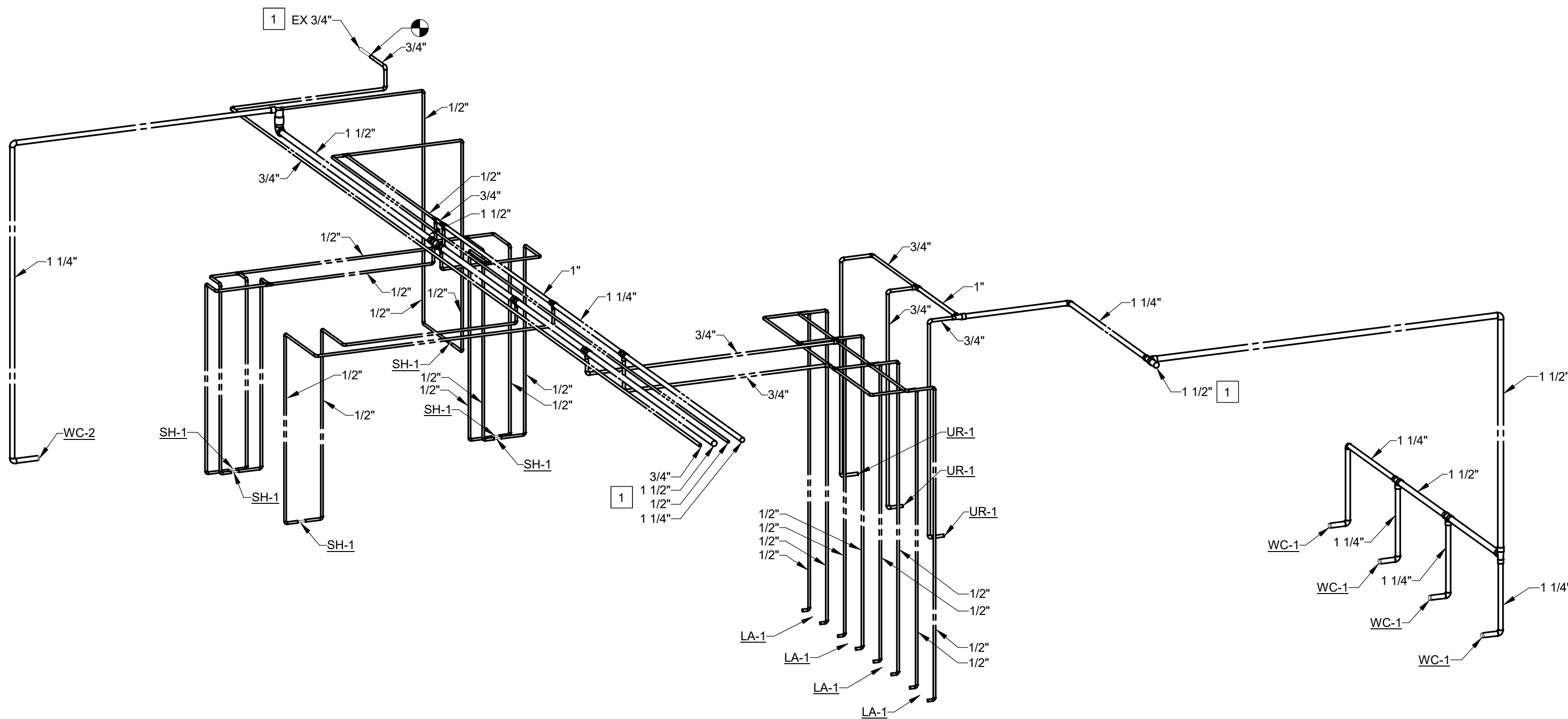
SHEET TITLE:
PLUMBING SANITARY &
VENT ISOMETRICS

SHEET NUMBER:

P600



1 DOMESTIC WATER ISOMETRIC 1



2 DOMESTIC WATER ISOMETRIC 2

GENERAL NOTES

A. REFER TO VIEW ON SHEET P103 FOR CONTINUATION.

SHEET KEYNOTES

1. REFER TO VIEW ON SHEET P103 FOR CONTINUATION.

STATE OF MISSOURI
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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000148



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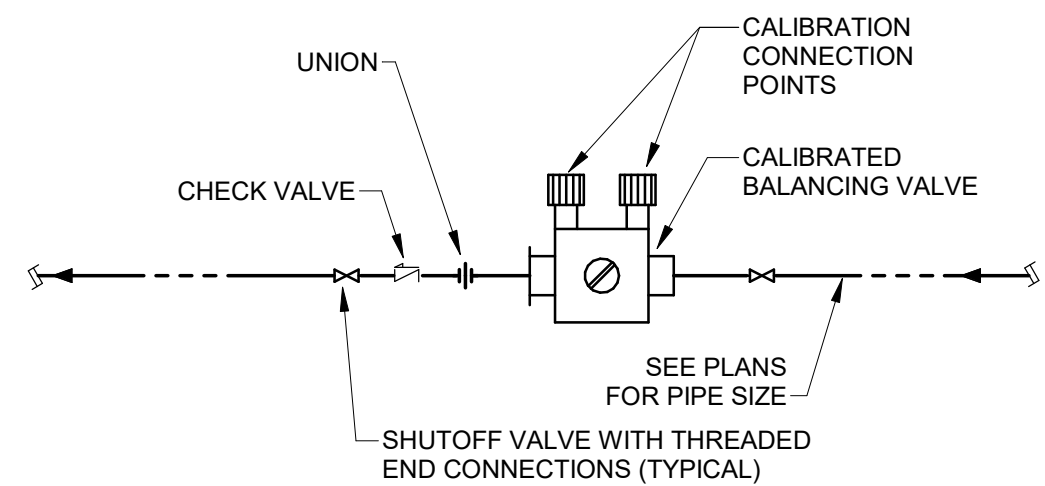
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DESIGNED BY: MAS

SHEET TITLE:
**PLUMBING DOMESTIC
WATER ISOMETRICS**

SHEET NUMBER:

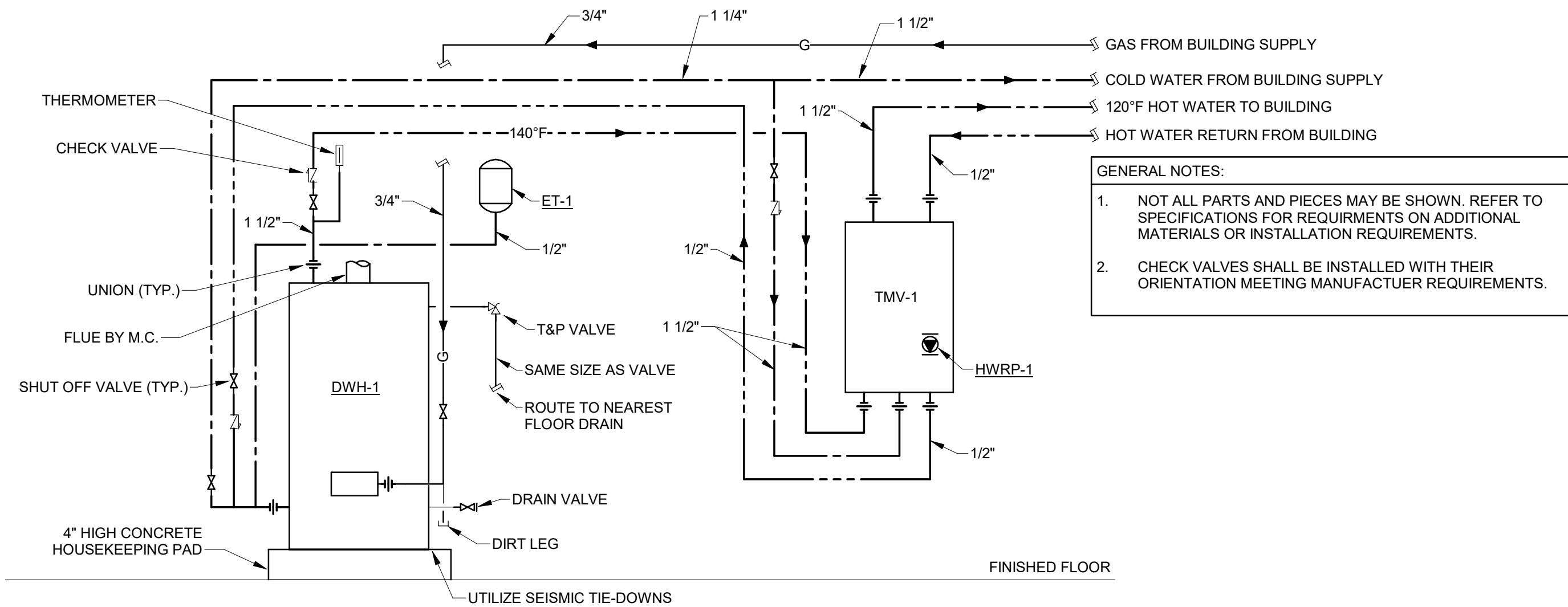
P601

4-16-2025 SHEET 15 OF 31



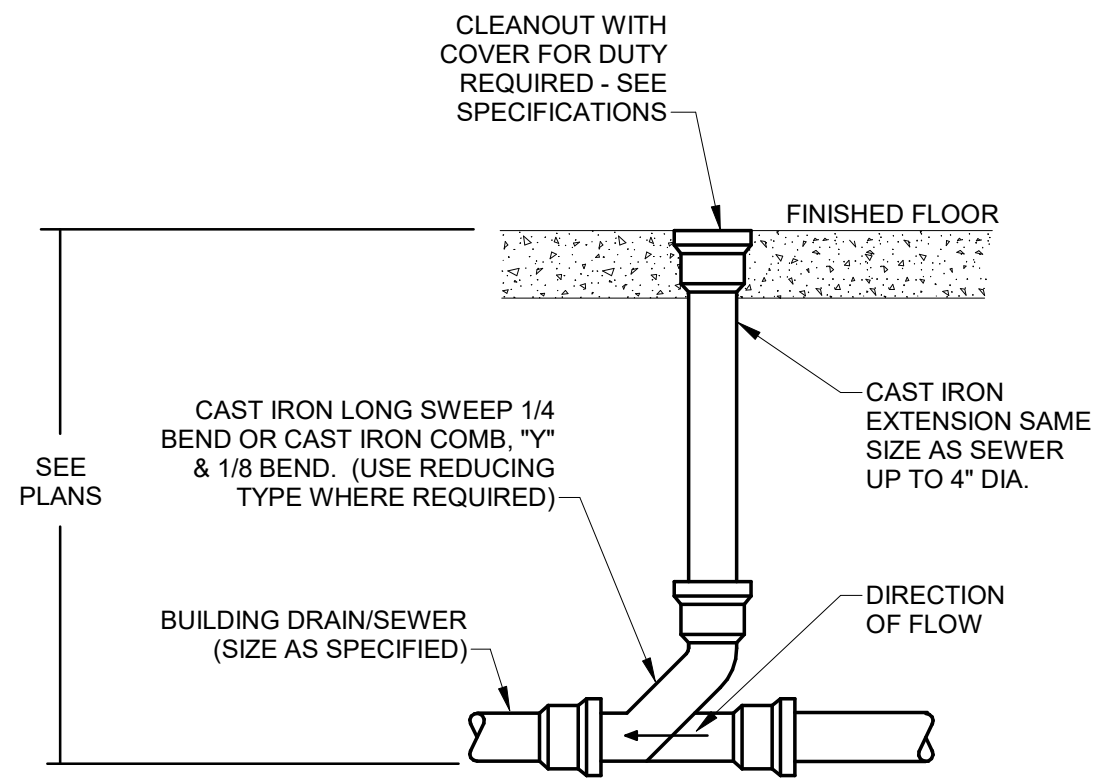
NOTE:
0.3 GPM TO 0.7 GPM - B&G 1/2" RF MODEL OR EQUAL
0.75 GPM TO 1.0 GPM - B&G 3/4" RF MODEL OR EQUAL
1.25 GPM TO 2.5 GPM - B&G CB-1/2" MODEL OR EQUAL
2.6 GPM TO 4.7 GPM B&G CB-3/4" MODEL OR EQUAL
4.8 GPM TO 9.7 GPM B&G CB-1" MODEL OR EQUAL

1 CALIBRATED BALANCING VALVE
NOT TO SCALE

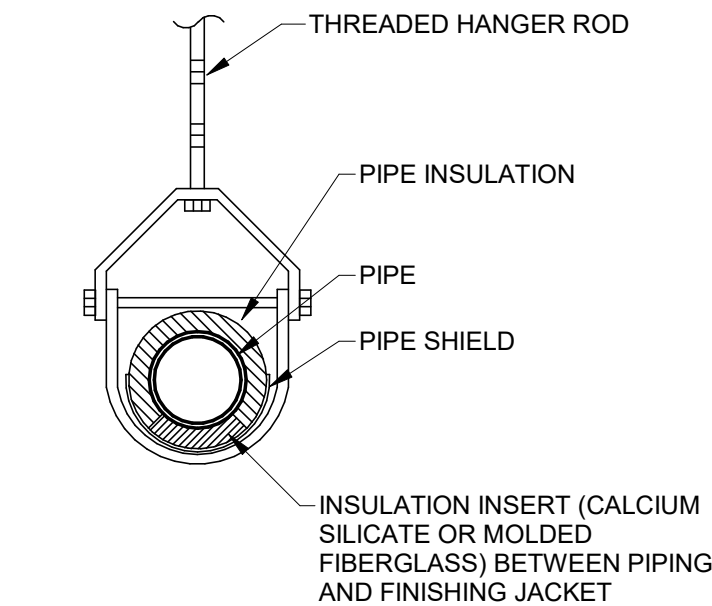
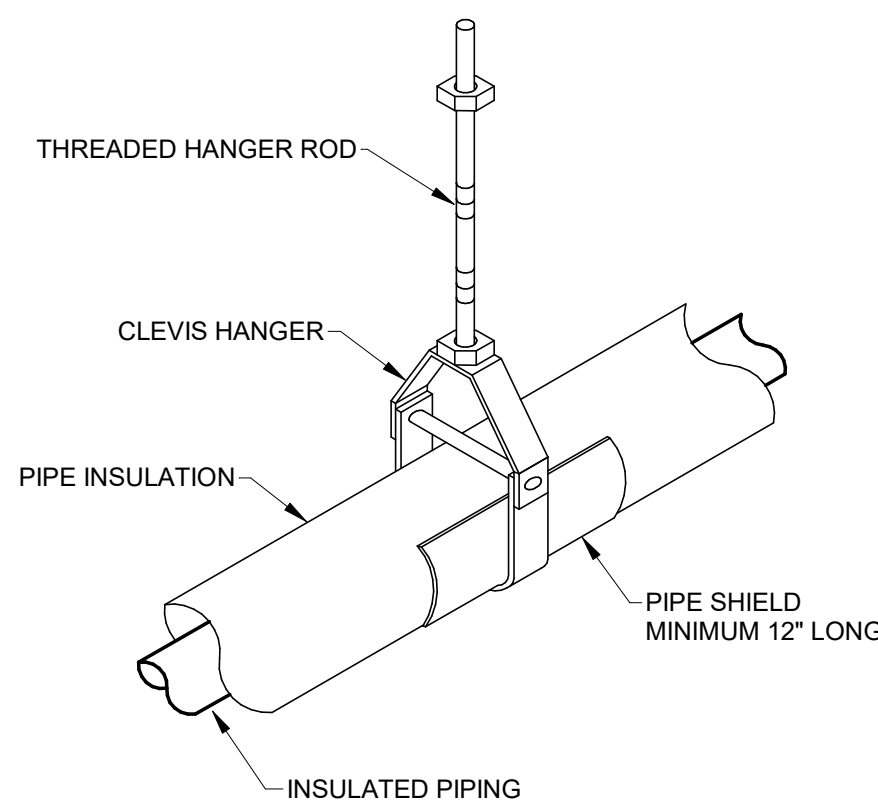


GENERAL NOTES:
1. NOT ALL PARTS AND PIECES MAY BE SHOWN. REFER TO SPECIFICATIONS FOR REQUIREMENTS ON ADDITIONAL MATERIALS OR INSTALLATION REQUIREMENTS.
2. CHECK VALVES SHALL BE INSTALLED WITH THEIR ORIENTATION MEETING MANUFACTURER REQUIREMENTS.

2 DOMESTIC WATER HEATER - GAS WITH ALL-IN-ONE TMV
NOT TO SCALE

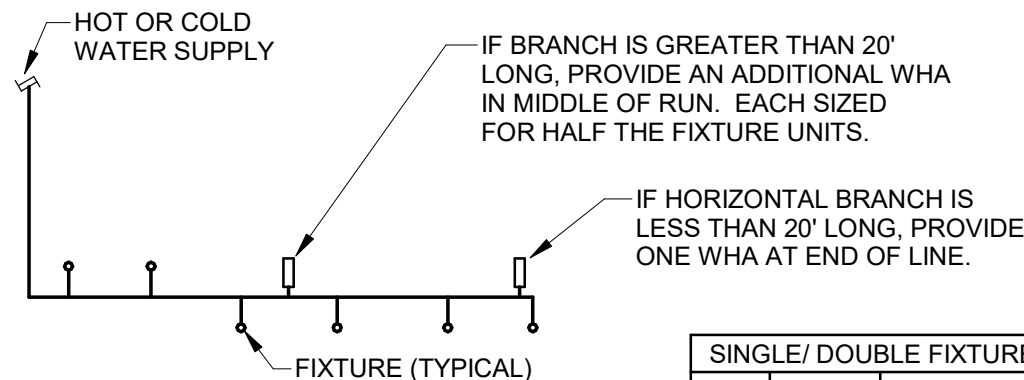


3 FLOOR CLEANOUT
NOT TO SCALE



SECTION THRU HANGER

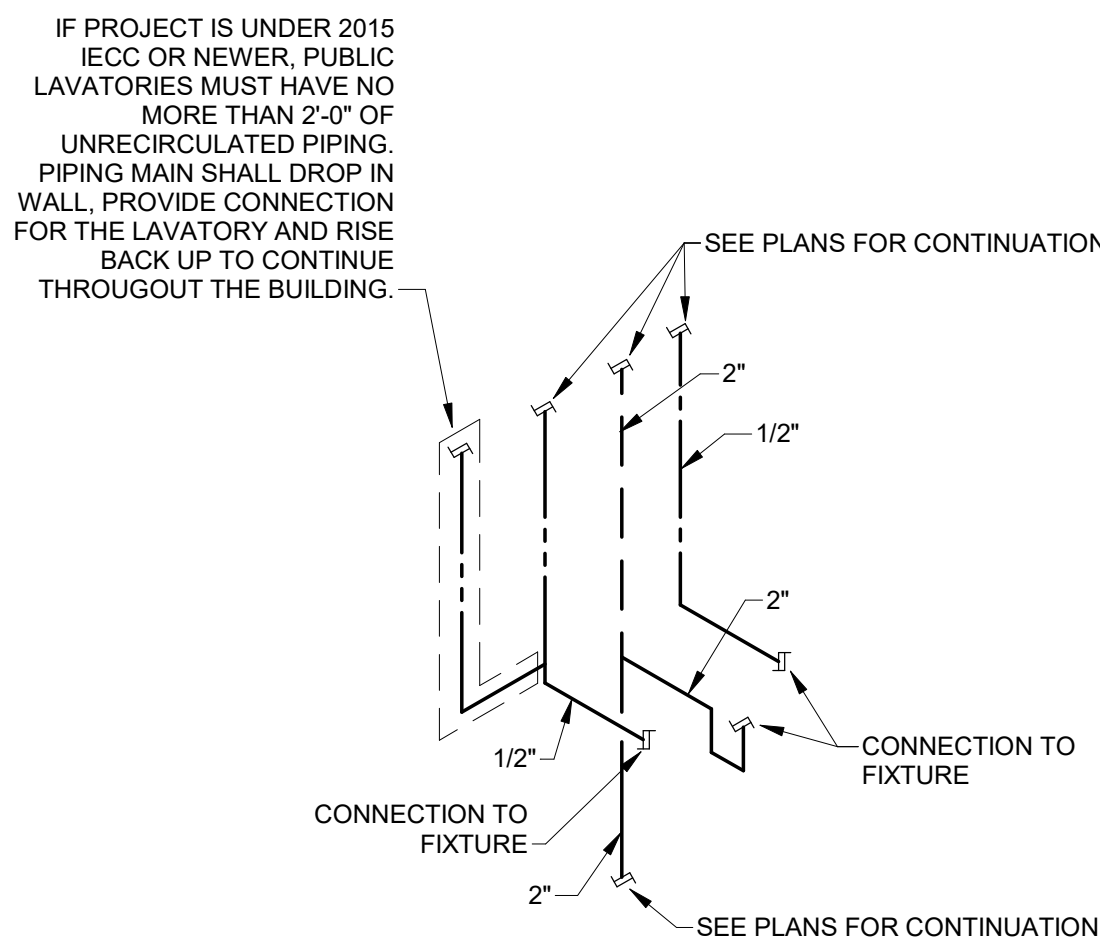
REFER TO SPECS FOR INSULATION AND HANGER SUPPORTS.



WHA SIZE	PIPE SIZE	FIXTURE UNIT LOAD
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"	154-330

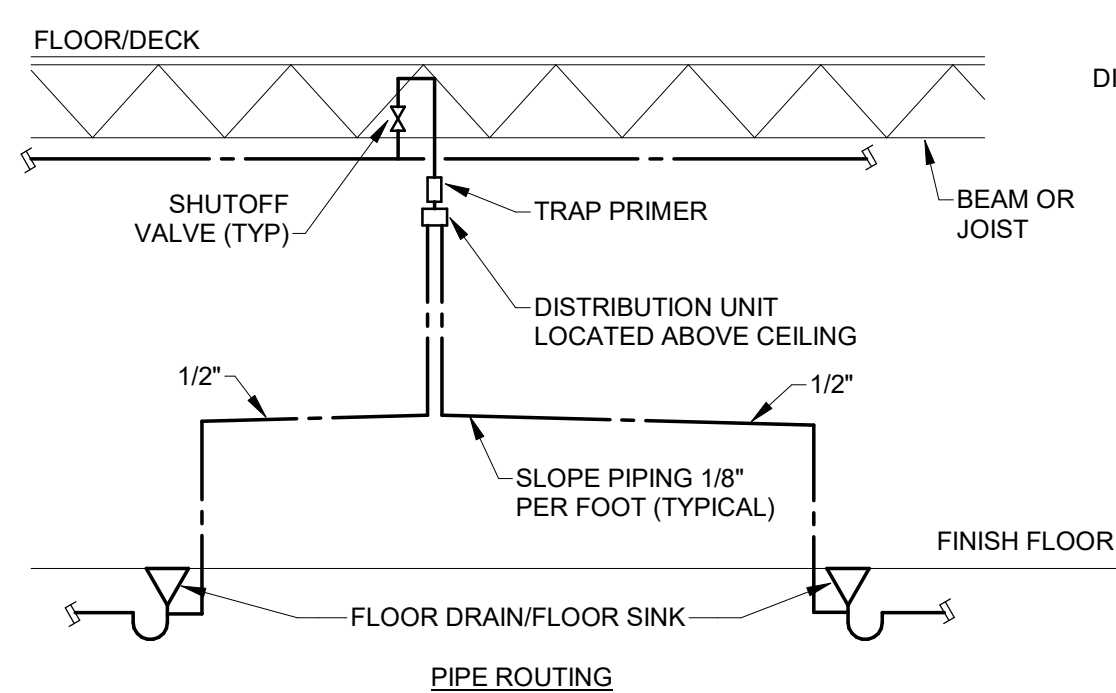
NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE A WHA AT ALL QUICK-CLOSING VALVES.

5 WATER HAMMER ARRESTOR SCHEMATIC
NOT TO SCALE

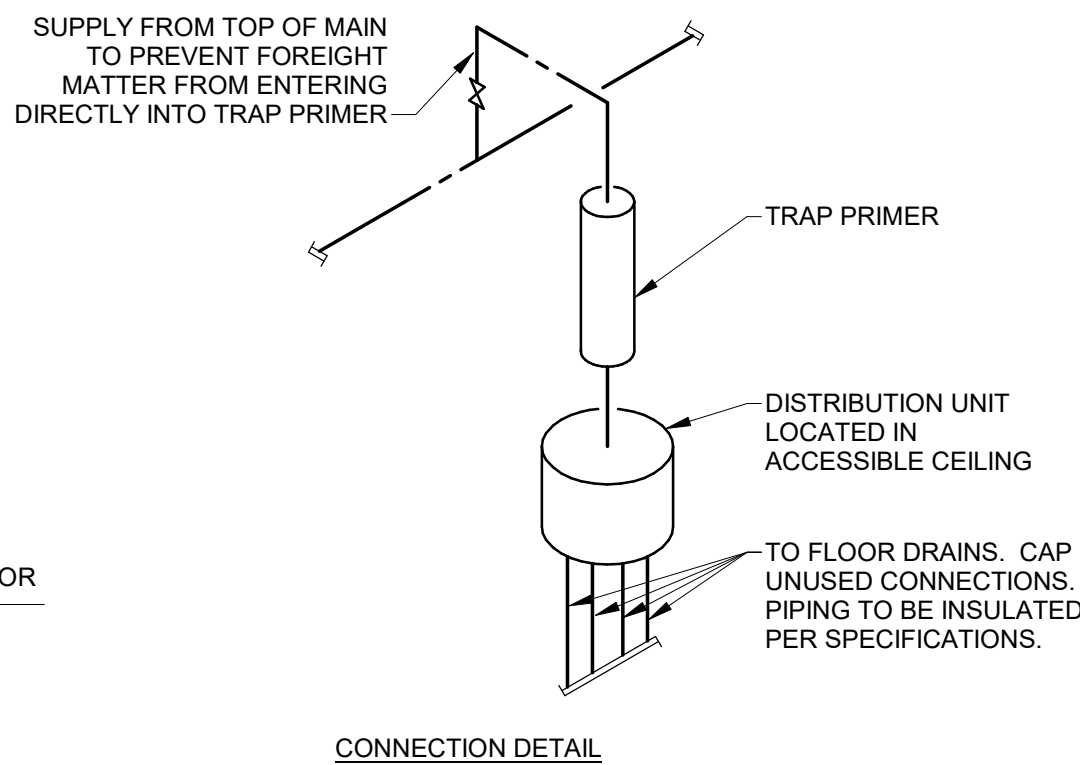


SINGLE LAVATORY INSTALLATION DIAGRAM

6 LAVATORY RISER DIAGRAM
NOT TO SCALE

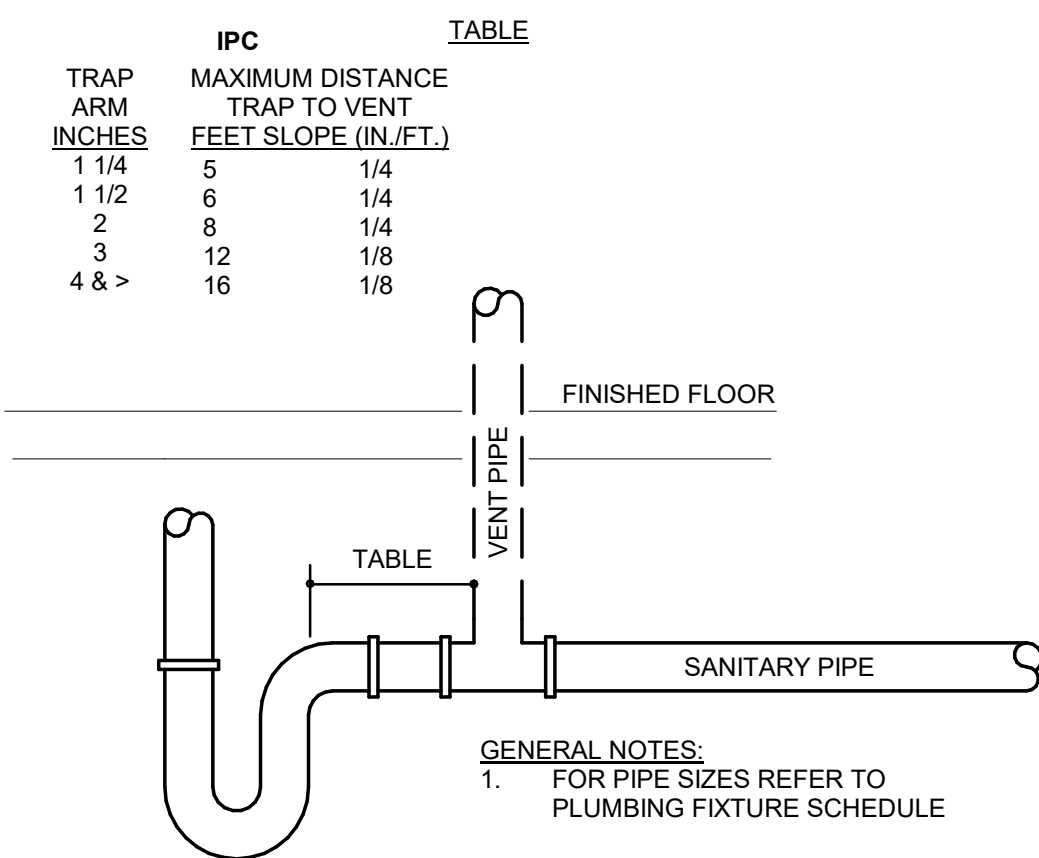


7 TRAP PRIMER
NOT TO SCALE



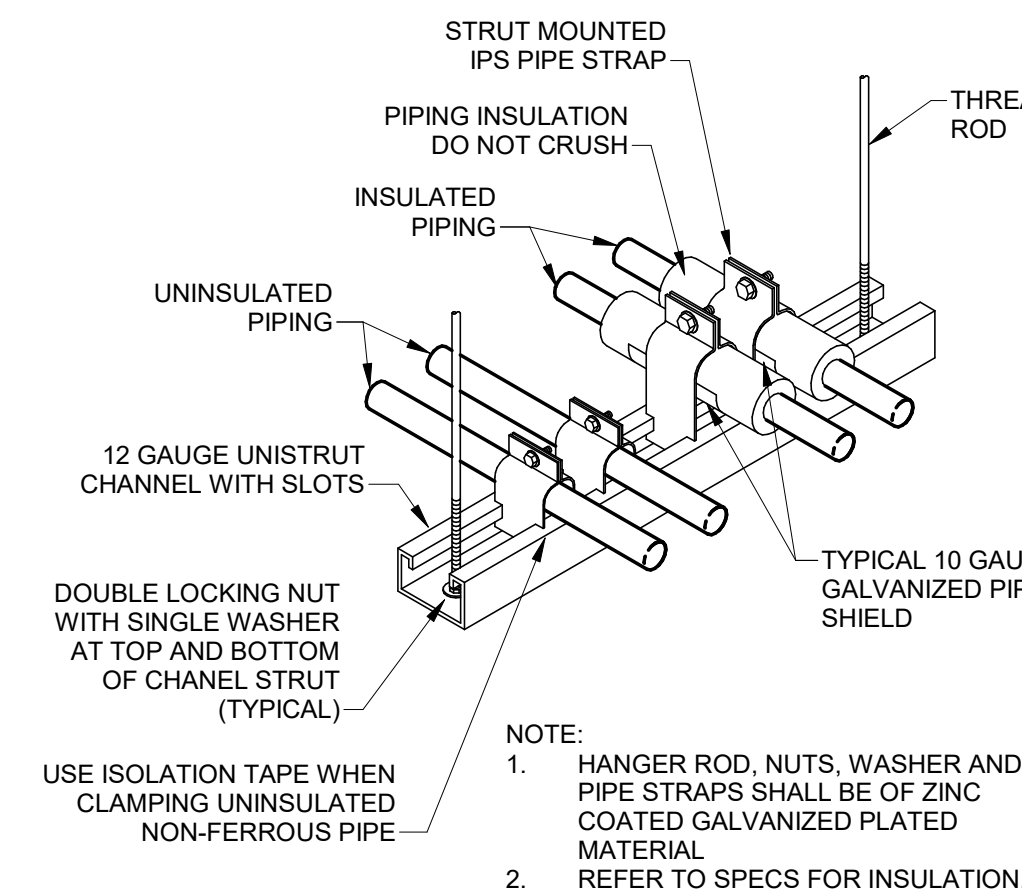
CONNECTION DETAIL

8 TRAP TO VENT MAXIMUM DISTANCE
NOT TO SCALE

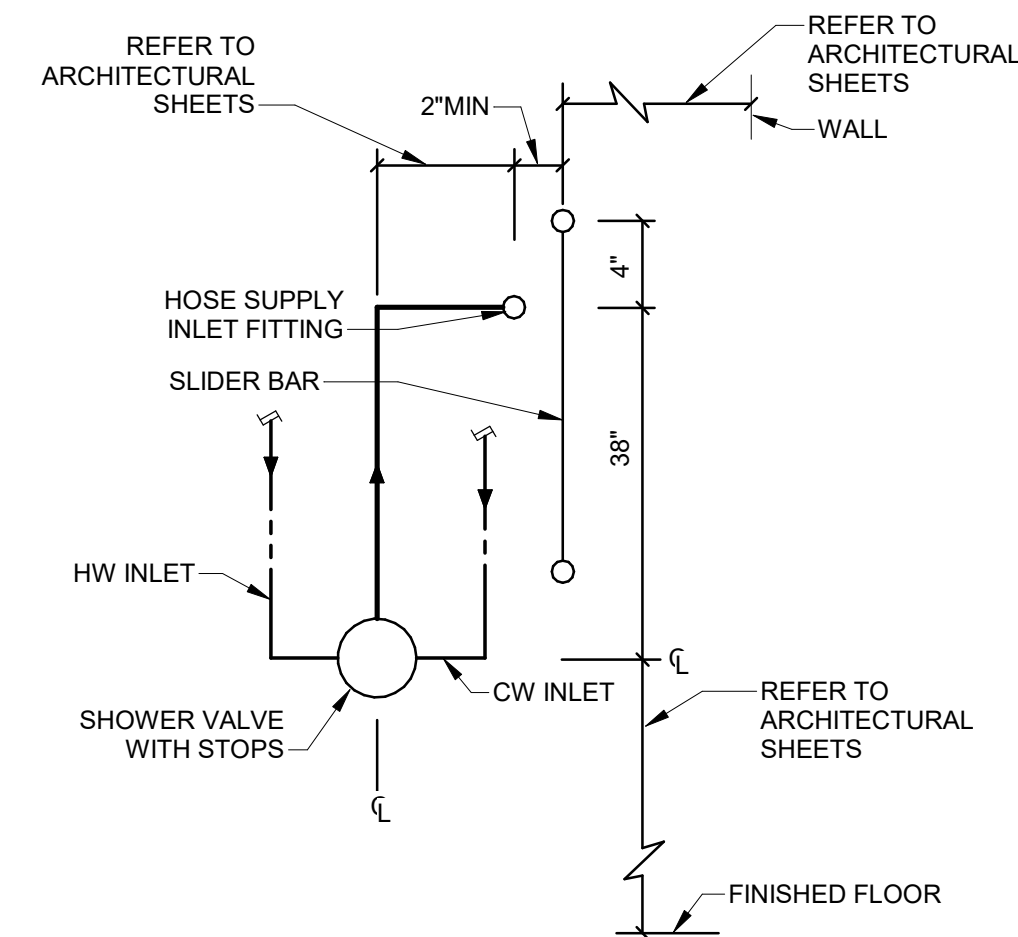


GENERAL NOTES:
1. FOR PIPE SIZES REFER TO PLUMBING FIXTURE SCHEDULE

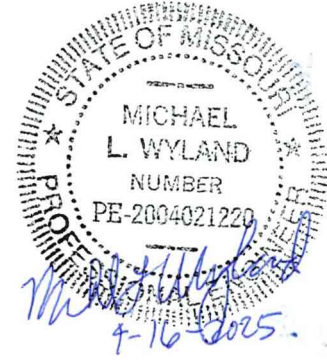
9 TRAPEZE PIPE SUPPORT
NOT TO SCALE



10 SHOWER VALVE INSTALLATION
NOT TO SCALE



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DESIGNED BY: MAS

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:

P602

PLUMBING FIXTURE SCHEDULE														
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	DRAIN / TRAP	SUPPLIES	CARRIER	SEAT	HOT WATER	COLD WATER	TEMPERED WATER	SANITARY / WASTE	VENT	NOTES
EW-1	ELECTRIC WATER COOLE	ELKAY	LZS8WS(VR)LP	-	CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	ELKAY	-	-	1/2"	-	2"		
LA-1	WALL HUNG LAVATORY	KOHLER	K-2054-N	KOHLER K-15243-4RA, MANUAL FAUCET, 0.5 GPM	MCGUIRE 155WC OFFSET GRID DRAIN WITH CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	JAY R. SMITH	-	1/2"	1/2"	-	2"	2"	INSULATE SUPPLY AND WASTE PIPING WITH TRUBRO #102 WHITE INSULATION KIT WITH #105 OFFSET DRAIN INSULATION KIT. 0.5 GPM NON-AERATED OUTLET.
MB-1	MOP BASIN	FIAT	MSB3624	STERN WILLIAMS MODEL T-15-VB, WALL MOUNTED MANUAL FAUCET W/ PALE HOOK, 2.5 GPM AT 60 PSI	3" PVC P-TRAP	INTEGRAL SUPPLY STOPS	-	-	1/2"	1/2"	-	3"	2"	#T-35 HOSE AND WALL BRACKET. 3/6" HOSE WITH 3/4" CHROME COUPLING. TYPE 302 STAINLESS STEEL BRACKET WITH SPRING LOADED RUBBER GRIP.
SH-1	SHOWER	-	-	AMERICAN STANDARD 1662.04 WITH R110S T372.240 PRESSURE BALANCE VALVE WITH STOPS & 1660.400 IN-LINE VACUUM BREAKER.	-	-	-	-	1/2"	1/2"	-	2"	2"	
UR-1	WALL HUNG URINAL ADA	KOHLER	K-4991-ET	SLOAN MODEL 186 MANUAL FLUSHOMETER 0.125 GPF	INTEGRAL	-	JAY R. SMITH	-	-	3/4"	-	2"	2"	
WC-1	FLOOR MOUNT FLOOR OUTLET WATER CLOSET	KOHLER	K-96057	SLOAN MODEL 111, MANUAL FLUSHOMETER, 1.28 GPF	INTEGRAL	-	-	BEMIS	-	1 1/4"	-	4"	2"	
WC-2	FLOOR MOUNT FLOOR OUTLET WATER CLOSET ADA	KOHLER	K-96057	SLOAN MODEL 111, MANUAL FLUSHOMETER, 1.28 GPF	INTEGRAL	-	-	BEMIS	-	1 1/4"	-	4"	2"	

WATER HEATER SCHEDULE											
PLAN MARK	MARK NUMBER	DESCRIPTION	MANUFACTURER	MODEL	STORAGE	RECOVERY	TEMPERATURE RISE	ELECTRICAL DATA	FUEL SOURCE	BTU/H	NOTES
DWH	1	DOMESTIC WATER HEATER	AO SMITH	BTH-150(A)	100 GAL	178 GPH	100 F	120V / 60HZ, 5A	NATURAL GAS	150,000	PROVIDE WITH CONCENTRIC VENT KIT AND CONDENSATE NEUTRALIZATION KIT

CIRCULATING PUMP SCHEDULE										
PLAN MARK	MARK NUMBER	DESCRIPTION	MANUFACTURER	MODEL	GPM	HEAD (FT.)	RPM	HP	ELETRICAL DATA	NOTES
HWRP	1	HOW WATER RETURN PUMP	TACO	007E-SF4	1	10	4830	FRACTIONAL	120V/1PH,60HZ	MOUNT HOT WATER RETURN PUMP ON TMV-1 MIXING STATION

EXPANSION TANK SCHEDULE									
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	NOMINAL SIZE		CAPACITY	VOLUME	NOTES
					DIAMETER	HEIGHT			
ET-1	EXPANSION TANK	AMTROL	ST-12C-DD	DOMESTIC WATER HEATER	12"	18"	3.2 GAL	6.4 GAL	

THERMOSTATIC MIXING VALVE SCHEDULE							
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	FLOW		LEAVING TEMPERATURE	NOTES
				MINIMUM GPM	GPM @ 10PSI LOSS		
TMV-1	THERMOSTATIC MIXING VALVE STATION	ACORN	CSMV-2-C-1-0-0-1-0	1	21.2	120 F	

DRAIN SCHEDULE						
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	BODY	STRAINER	NOTES
FD-1	SQUARE FLOOR DRAIN	JAY R. SMITH	2005Y-NB	CAST IRON	NICKEL BRONZE	PROVIDE TRAP PRIMER CONNECTION (-PG50)

BALANCING VALVE SCHEDULE				
PLAN MARK	DESCRIPTION	SIZE	ADJUSTED FLOW RATE	NOTES
CBV-1	CALIBRATED BALANCING VALVE	1/2"	0.5 GPM	

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

ARCHITECTURE & ENGINEERING



MISSOURI STATE CERTIFICATE
OF AUTHORITY #000148



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SHEET TITLE:
PLUMBING SCHEDULES

SHEET NUMBER:

P603

DUCT SYSTEM SYMBOLS

	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (CLEAR INSIDE, ADJUST FOR LINER)
	ROUND DUCT SIZE, (ACTUAL SIZE INDICATED)
	SPIRAL FLAT-OVAL DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (ACTUAL SIZE INDICATED)
	FLEXIBLE DUCT
	SUPPLY AND OUTSIDE AIR SECTION UP
	EXHAUST AIR SECTION UP
	EXHAUST AIR SECTION DOWN
	TURNING VANES
	MANUAL VOLUME DAMPER
	FLOW ARROW DOWNSTREAM OF FAN
	FLOW ARROW UPSTREAM OF FAN
	SUPPLY DIFFUSER AS SCHEDULED. ARROWS INDICATE DIRECTION OF AIR DISCHARGE. IF NO ARROWS ARE SHOWN ON PLAN, DEFAULT IS A 4-WAY THROW
	RETURN GRILLE OR REGISTER AS SCHEDULED
	EXHAUST GRILLE OR REGISTER AS SCHEDULED

DRAWING REFERENCES

	TITLE	PLAN DETAIL REFERENCE TITLE
	SCALE	
	KEYED NOTE DESIGNATION	
	PLAN NORTH	
	TRUE NORTH	
	PLAN MARK	EQUIPMENT DESIGNATION REFER TO MEP SCHEDULE FOR CIRCUITING AND DEVICE REQUIREMENTS AND FLOOR PLANS FOR LOCATIONS
	EQUIPMENT NUMBER	
	PLAN MARK	ENLARGED PLAN REFERENCE
	SHEET NUMBER	
	SECTION	
	INTERFACE, EXISTING TO NEW	
	EXTENT OF DEMOLITION	
	MATCHLINE	
	REVISION TAG	

LINE TYPE LEGEND

	EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE)
	NEW WORK BY THIS CONTRACTOR (DARK, SOLID LINE)
	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS)

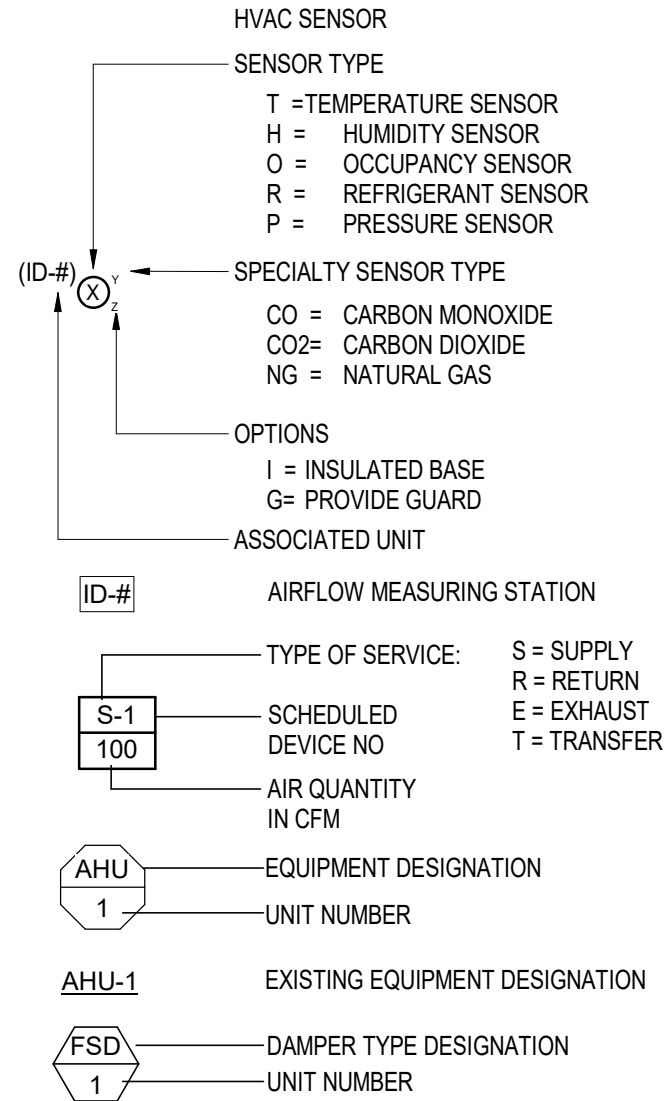
MECHANICAL ABBREVIATIONS

A	AIR OR AMP (PER CONTEXT)	JS	JOIST SPACE
ACC	ACCESSORIES	KW	KILOWATTS
AD	ACCESS DOOR	L	LENGTH
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AFS	AIR FLOW SWITCH	LB(S)	POUNDS
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE	LF	LINEAR FEET
AI	ANALOG SIGNAL INPUT	LRA	LOCKED ROTOR AMPS
AMB	AMBIENT	LS	LIGHT SPACE
AO	ANALOG SIGNAL OUTPUT	LVL	LEVEL
AP	ACCESS PANEL	LWT	LEAVING WATER TEMPERATURE
APD	AIR PRESSURE DROP	MAN	MANUAL
APLV	APPLICATION PART LOAD VALUE	MANU	MANUFACTURER
APPROX	APPROXIMATE	MAX	MAXIMUM
ARCH	ARCHITECTURE/ARCHITECT	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
AUX	AUXILIARY	MCA	MINIMUM CIRCUIT AMPS
AV	AUTOMATIC VENT	MCC	MOTOR CONTROL CENTER
AVG	AVERAGE	MECH	MECHANICAL
BDD	BACK DRAFT DAMPER	MERV	MINIMUM EFFICIENCY REPORTING VALUE (ASHRAE 52.2)
BFC	BELOW FINISHED CEILING	MFR	MANUFACTURER
BFP	BACKFLOW PREVENTER	MIN	MINIMUM OR MINUTE (PER CONTEXT)
BHP	BRAKE HORSEPOWER	MTD	MOUNTED
BI	BINARY SIGNAL INPUT	MTL	METAL
BMS	BUILDING MANAGEMENT SYSTEM	MV	MANUAL VENT
BO	BINARY SIGNAL OUTPUT	NC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)
BOB	BOTTOM OF BEAM	NIC	NOT IN CONTRACT
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN OR NUMBER (PER CONTEXT)
BOP	BOTTOM OF PIPE	NOM	NOMINAL
BS	BEAM SPACE	NPLV	NON-STANDARD PART LOAD VALUE
BTU	BRITISH THERMAL UNIT	NPSH	NET POSITIVE SUCTION HEAD
BTUH	BRITISH THERMAL UNITS PER HOUR	NTS	NOT TO SCALE
BWE	BAKED WHITE ENAMEL	OA	OUTSIDE AIR
CAP	CAPACITY	OBD	OPPOSED BLADE DAMPER
CAV	CONSTANT AIR VOLUME	OC	ON CENTER
CFH	CUBIC FEET PER HOUR	OD	OUTSIDE DIAMETER
CFM	CUBIC FEET PER MINUTE	OT	OIL TRAP
CI	CAST IRON	PA	PIPE ANCHOR
CLG	COOLING DUCT (COLD DUCT)	PBD	PARALLEL BLADE DAMPER
CO	CLEAN OUT	PD	PRESSURE DROP
COMP	COMPRESSOR	PENT	PENTHOUSE
CONC	CONCRETE	PH	PHASE
COND	CONDENSATE	PHC	PREHEAT COIL
CONN	CONNECTION	PLBG	PLUMBING
CORR	CORRIDOR	PNEU	PNEUMATIC
CV	CONTROL VALVE	PPH	POUNDS PER HOUR
D	DEPTH	PRESS	PRESSURE
DB	DRY BULB	PRV	PRESSURE REGULATING VALVE
DBA	A-WEIGHTED DECIBELS	PSI	POUNDS PER SQUARE INCH
DEFL	DEFLECTION	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DEG	DEGREES	PSIG	POUNDS PER SQUARE INCH GAUGE
DEG F	DEGREES FAHRENHEIT	QTY	QUANTITY
DES	DESIGN	RA	RETURN AIR
DIA	DIAMETER	RAD	RADIATED
DIM	DIMENSION	RD	ROOF DRAIN
DISCH	DISCHARGE	REFR	REFRIGERANT
DIV	DIVISION	REQ	REQUIRED
DN	DOWN	RH	RELATIVE HUMIDITY
DP	DIFFERENTIAL PRESSURE SENSOR	RLA	RUNNING LOAD AMPS
DPS	DIFFERENTIAL PRESSURE SWITCH	RM	ROOM
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	RND	ROUND
DTL	DETAIL	RPM	REVOLUTIONS PER MINUTE
DWG(S)	DRAWING(S)	SA	SUPPLY AIR
EA	EXHAUST AIR OR EACH (PER CONTEXT)	SAN	SANITARY
EAT	ENTERING AIR TEMPERATURE	SECN	SECTION
EER	ENERGY EFFICIENT RATIO	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY	SENS	SENSIBLE
ELEC	ELECTRIC	SF	SQUARE FOOT
ELEV	ELEVATION	SH	SENSIBLE HEAT
EQAL	EQUAL	SHT	SHEET
ESP	EXTERNAL STATIC PRESSURE	SND	SOUND
EWB	ENTERING AIR WET BULB TEMPERATURE	SOLENOID	SOLENOID
EWT	ENTERING WATER TEMPERATURE	SOL	STATIC PRESSURE
EXH	EXHAUST	SP	STATIC PRESSURE
EXIST	EXISTING	SPD	STATIC PRESSURE DIFFERENTIAL
EXT	EXTERNAL	SPT	STATIC PRESSURE TRANSMITTER
F	FAHRENHEIT	SQ	SQUARE
F&T	FLOAT AND THERMOSTATIC	SST	STAINLESS STEEL
FC	FLEXIBLE CONNECTION	STL	STEEL
FD	FLOOR DRAIN	STM	STEAM
FDC	FIRE DEPARTMENT CONNECTION	T&P	TEMPERATURE AND PRESSURE
FIN	FINISHED	TC	TEMPERATURE CONTROL
FLR	FLOOR	TD	THERMODYNAMIC OR TEMPERATURE DIFFERENTIAL (PER CONTEXT)
FPF	FINS PER FOOT	TDH	TEMPERATURE HEAD
FPM	FEET PER MINUTE	TEMP	TEMPERATURE
FS	FEET	TOT	TOTAL
FT-HD	HEAD IN FEET	TPD	TOTAL PRESSURE DROP
GA	GAUGE	TSP	TOTAL STATIC PRESSURE
GAL	GALLONS	TYP	TYPICAL
GALV	GALVANIZED	UC	UNDERCUT DOOR
GC	GENERAL CONTRACTOR	UG	UNDERGROUND
GPH	GALLONS PER HOUR	UNO	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	V	VOLTS
H	HEIGHT	VAC	VACUUM
HD	HEAD	VD	VOLUME DAMPER (MANUAL)
HEV	HOSE END VALVE	VEL	VELOCITY
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HR	HOUR	VOL	VOLUME
HTG	HEATING DUCT (HOT DECK)	VTR	VENT THRU ROOF
HVAC	HEATING, VENTILATING & AIR CONDITIONING	W	WATT OR WIDTH (PER CONTEXT)
HW	HOT WATER	WI	WITH
HZ	HERTZ	W/O	WITHOUT
IB	INVERTED BUCKET	WB	WET BULB
IE	INVERT ELEVATION	WC	WATER COLUMN
IN	INCH/INCHES	WG	WATER GAUGE
INDIC	INDICATOR	WPD	WATER PRESSURE DIFFERENTIAL
IPLV	INTEGRATED PART-LOAD VALUE	WT	WEIGHT
ISP	INTERNAL STATIC PRESSURE		

MECH EQUIPMENT DESIGNATION

MECH	EQUIPMENT DESIGNATION
EF	EXHAUST FAN

MECHANICAL SYMBOLS



MECHANICAL PROJECT GENERAL NOTES

- ALL ELBOWS, FITTINGS, ETC., IN DUCTWORK REQUIRED TO CLEAR ALL JOB OBSTRUCTIONS ARE NOT NECESSARILY INDICATED. ALL NECESSARY TRANSITIONS, FITTINGS AND OFFSETS ARE REQUIRED WHETHER SHOWN OR NOT.
- BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK, COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE. SEE SPECIFICATION 230100 FOR REQUIRED COORDINATION DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE STAGING AND SCHEDULING WITH THE OWNER'S REPRESENTATIVE.
- EXISTING CONDITIONS ARE BASED ON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION DOCUMENTS AND INFORMAL FIELD OBSERVATION AND SHALL NOT BE CONSTITUTED AS "AS BUILT." THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS BEFORE THE ONSET OF CONSTRUCTION.
- DEMOLISH ALL DUCTWORK EQUIPMENT, ETC., SHOWN TO BE REMOVED, IN ITS ENTIRETY, INCLUDING ALL HANGERS AND SUPPORTS.
- WHERE CONTRACTOR IS REQUIRED TO CONCEAL NEW WORK, REMOVE OR MODIFY EXISTING CONSTRUCTION OR EQUIPMENT, OR ATTACH TO EXISTING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION AND MATERIALS TO MATCH CONDITIONS AT THE ONSET OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE EXISTING CEILINGS AND WALLS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.
- THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THIS CONTRACTOR.
- CONTRACTOR SHALL PROVIDE SEISMIC BRACING AND MOUNTING OF EQUIPMENT AND MATERIALS IN COMPLIANCE WITH ALL LOCAL CODE REQUIREMENTS AND THE REQUIREMENTS OF SPECIFICATION SECTION SEISMIC PROTECTION.
- ALL WORK SHALL BE INSTALLED PER THE REFERENCE DETAILS, REGARDLESS OF WHETHER OR NOT THE DETAILS ARE CALLED OUT ON THE PLANS.
- DO NOT SCALE THE LOCATION OF HVAC CEILING ELEMENTS, SUCH AS AIR INLETS AND OUTLETS, FROM THE M-SERIES DRAWINGS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT HVAC CEILING ELEMENT LOCATIONS. REFLECTED CEILING PLANS GOVERN THE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES. M-SERIES DRAWINGS GOVERN TYPE, STYLE, AND SIZE OF DIFFUSERS, REGISTERS, AND GRILLES.
- ALL DUCTWORK SHALL COMPLY WITH "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," 3RD EDITION, SMACNA 2005, EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED. ANY PLAN REFERENCES TO "SMACNA FIGURE --" REFERS TO THIS STANDARD. SEE SPECIFICATIONS FOR SCHEDULE OF DUCT PRESSURE CLASS AND SEAL CLASS.
- IN GENERAL, THE FINAL FLEX DUCT RUNOUT TO EACH DIFFUSER, REGISTER, OR GRILLE IS NOT SIZED ON PLANS. FLEX DUCT RUNOUT SIZE SHALL MATCH AIR OUTLET NECK SIZE, UNO.
- IT IS THE INTENT OF THESE DRAWINGS THAT A MANUAL BALANCING DAMPER BE PROVIDED AT EVERY INDIVIDUAL DUCTED CONNECTION TO AN AIR DEVICE, UNLESS A BALANCING DAMPER IS SCHEDULED TO BE FURNISHED WITH AIR DEVICE.
- ALL NEW DUCTWORK SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL ADJUST SHEET METAL SIZES AS NECESSARY TO ACCOMMODATE INTERNAL DUCT LINER, IF SPECIFIED.
- CONTRACTOR SHALL HAVE THE DOCUMENTS REVIEWED COMPLETELY BY A CERTIFIED BALANCING CONTRACTOR FOR THE INCLUSION OF THE NECESSARY ADDITIONAL AIR AND HYDRONIC SYSTEM BALANCING DEVICES NOT SHOWN IN THESE DOCUMENTS FOR COMPLETE HVAC SYSTEM BALANCING. REFER TO SPECIFICATION SECTION 230593 FOR CONSTRUCTION DOCUMENT EXAMINATION REPORT.
- IT SHOULD BE NOTED THAT SOME SYSTEMS (I.E. GENERAL AND ISOLATION EXHAUST) ARE REQUIRED TO BE BALANCED MORE THAN ONCE TO ASSURE DESIGN AIRFLOWS ARE PROVIDED.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO THE EXACT LOCATION OF DUCTWORK, PIPING AND EQUIPMENT FROM THE LOCATION INDICATED ON THESE DRAWINGS TO FIT ACTUAL JOB CONDITIONS.

MECHANICAL EQUIPMENT COMPONENTS EARTHQUAKE LOAD RESISTANCE						
RISK CATEGORY (II)	SEISMIC DESIGN CATEGORY (D)				COMMENTS	
	ANCHORAGE TO FLOORS, ROOFS, ETC	SWAY BRACING	LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			
LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	ON CONSTRUCTION DOCUMENTS: DRAWING # OR SPEC SECTION	SUBSEQUENT SUBMITTAL: SEPARATE PERMIT & PLANS
AIR TERMINAL UNITS (Ip = 1.0)	■		■			
DUCTWORK (Ip = 1.0)		■		■		
FAN (Ip = 1.0)		■		■		
PIPE (Ip = 1.0)		■		■		

IT IS THE BASIC INTENT OF THIS CODE BLOCK TO DECLARE WHETHER OR NOT ANCHORAGE AND SWAY BRACING IS BEING PROVIDED ON THE PROJECT. IF SO, TO DECLARE WHETHER OR NOT THE DETAILS ARE SHOWN ON THE PLANS OR WILL BE SHOWN ON A SUBSEQUENT SUBMISSION. IF SEISMIC RESTRAINT OF A COMPONENT IS NOT REQUIRED BY CODE THIS SHOULD BE STATED IN COMMENTS. IF SEISMIC RESTRAINT, WHICH IS NOT REQUIRED BY CODE, IS BEING PROVIDED DUE TO OWNER/DESIGNER REQUIREMENTS THIS SHOULD BE STATED IN COMMENTS.

PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER NEED TO BE SUBMITTED.

COMMON PIPING SYMBOLS & ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

AFF	ABOVE FINISH FLOOR
DIA	DIAMETER
DN	DOWN
EX OR EXIST	EXISTING
FFE	FINISHED FLOOR ELEVATION
HP	HORSEPOWER
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
VIF	VERIFY IN FIELD

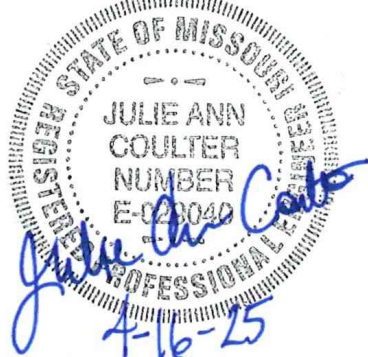
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

ARCHITECTURE & ENGINEERING



1 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.8363
F: 314.918.1766
www.introba.com

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E-029040

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Latrines & Shower Renovations,
Building 233

St. Louis Lambert Readiness
Center

10800 Lambert International
Rd.
Bridgeton, MO 63044

PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

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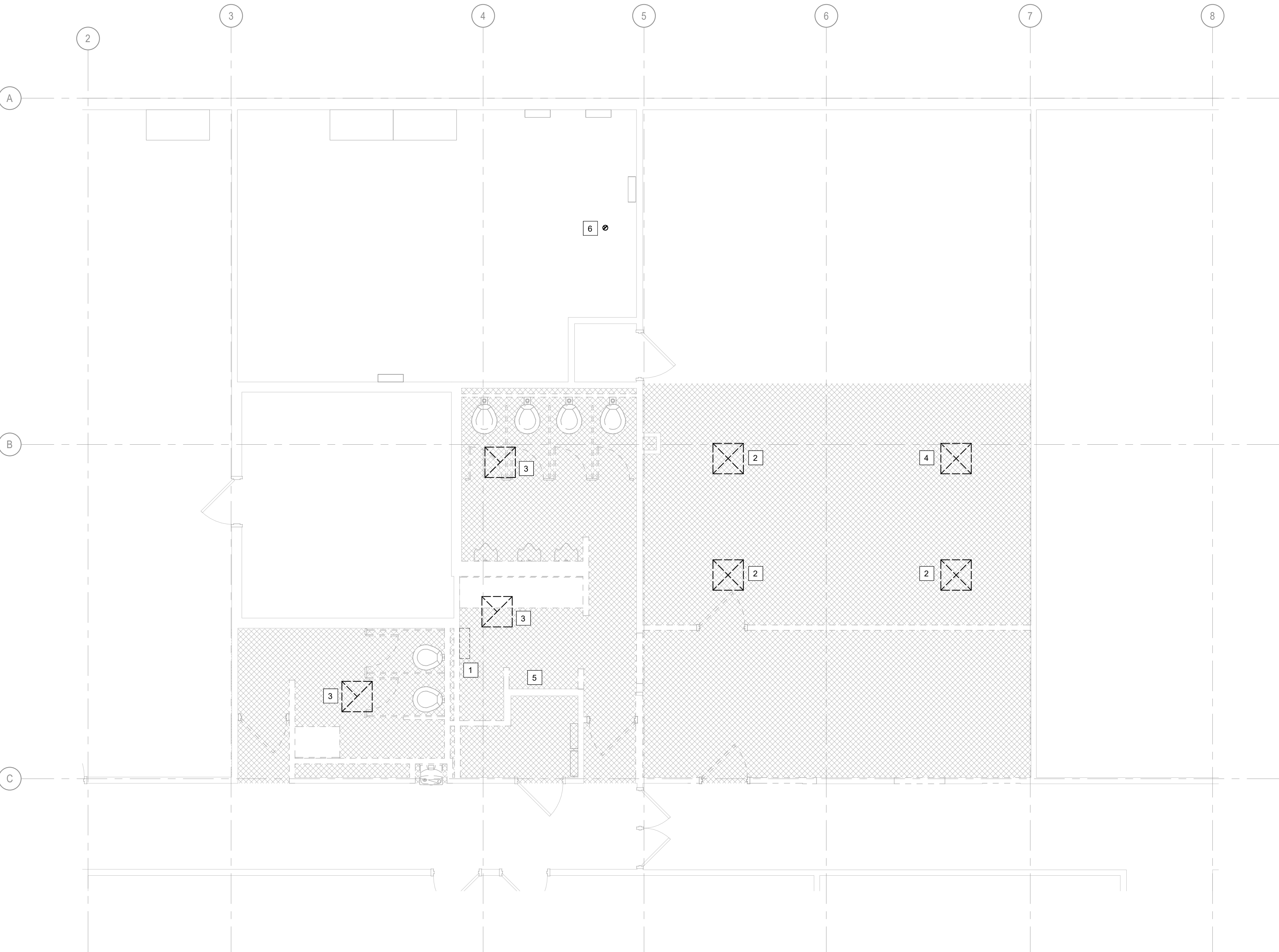
ISSUE DATE: 4-16-2025

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

SHEET TITLE:
MECHANICAL SYMBOLS
& ABBREVIATIONS

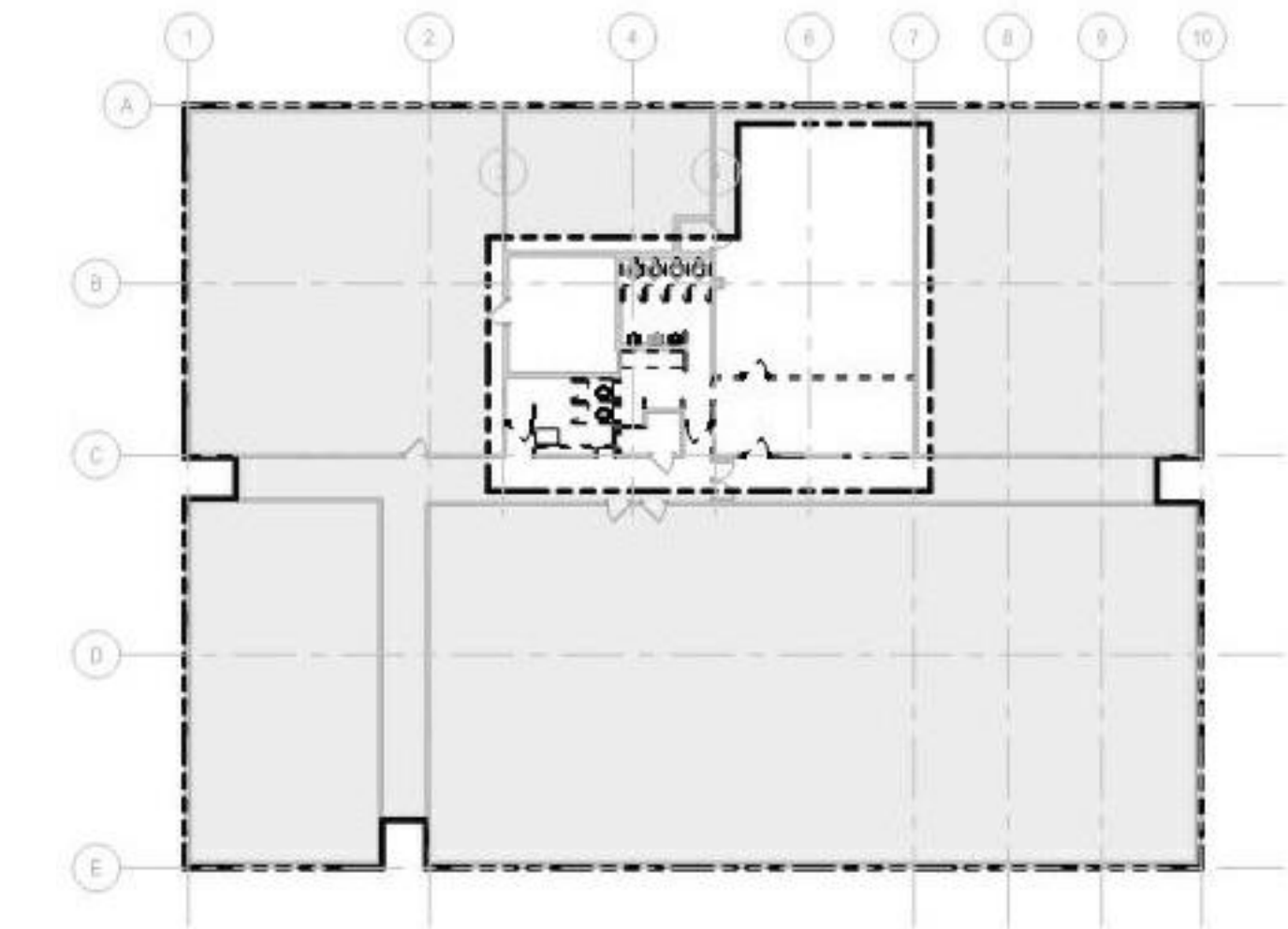
SHEET NUMBER:

M000



1 MECHANICAL MAIN LEVEL DEMO
1/4" = 1'-0"

#	SHEET KEYNOTES
1	REMOVE EXISTING WALL MOUNTED HEATER.
2	REMOVE EXISTING SUPPLY AIR DIFFUSER AND FLEX DUCTWORK TO MAIN. REUSE CONNECTION AT MAIN FOR NEW WORK.
3	REMOVE EXISTING EXHAUST AIR DIFFUSERS AND DUCTWORK TO EXHAUST FAN.
4	REMOVE EXISTING SUPPLY AIR DIFFUSER AND FLEX DUCTWORK TO MAIN. CAP AT MAIN.
5	REMOVE EXISTING EXHAUST FAN ON ROOF IN THIS LOCATION. REUSE EXISTING HOLE THROUGH ROOF FOR NEW FAN DUCTWORK.
6	REMOVE EXISTING WATER HEATER VENT PIPING FROM HEATER THROUGH ROOF. REUSE EXISTING HOLE THROUGH ROOF FOR NEW WATER HEATER VENT.



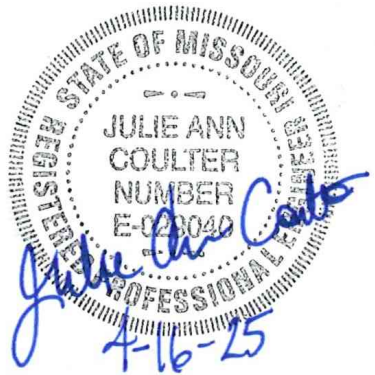
Key Plan
NTS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

ARCHITECTURE & ENGINEERING



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ISSUE DATE: 4-16-2025

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

SHEET TITLE:
MECHANICAL FLOOR
PLANS - DEMO

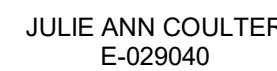
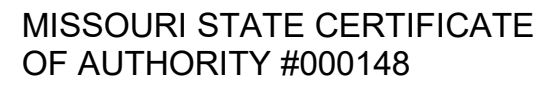
SHEET NUMBER:

M101

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SHEET 19 OF 31

ARCHITECTURE & ENGINEERING



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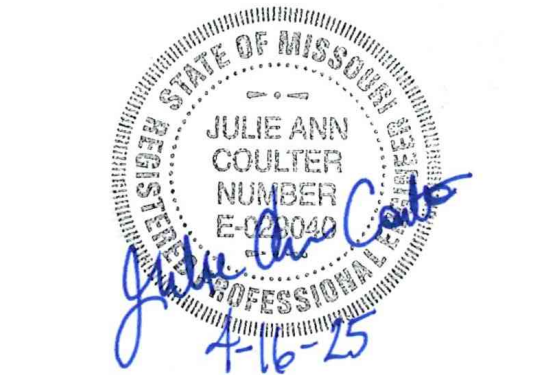
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SHEET 20 OF 31





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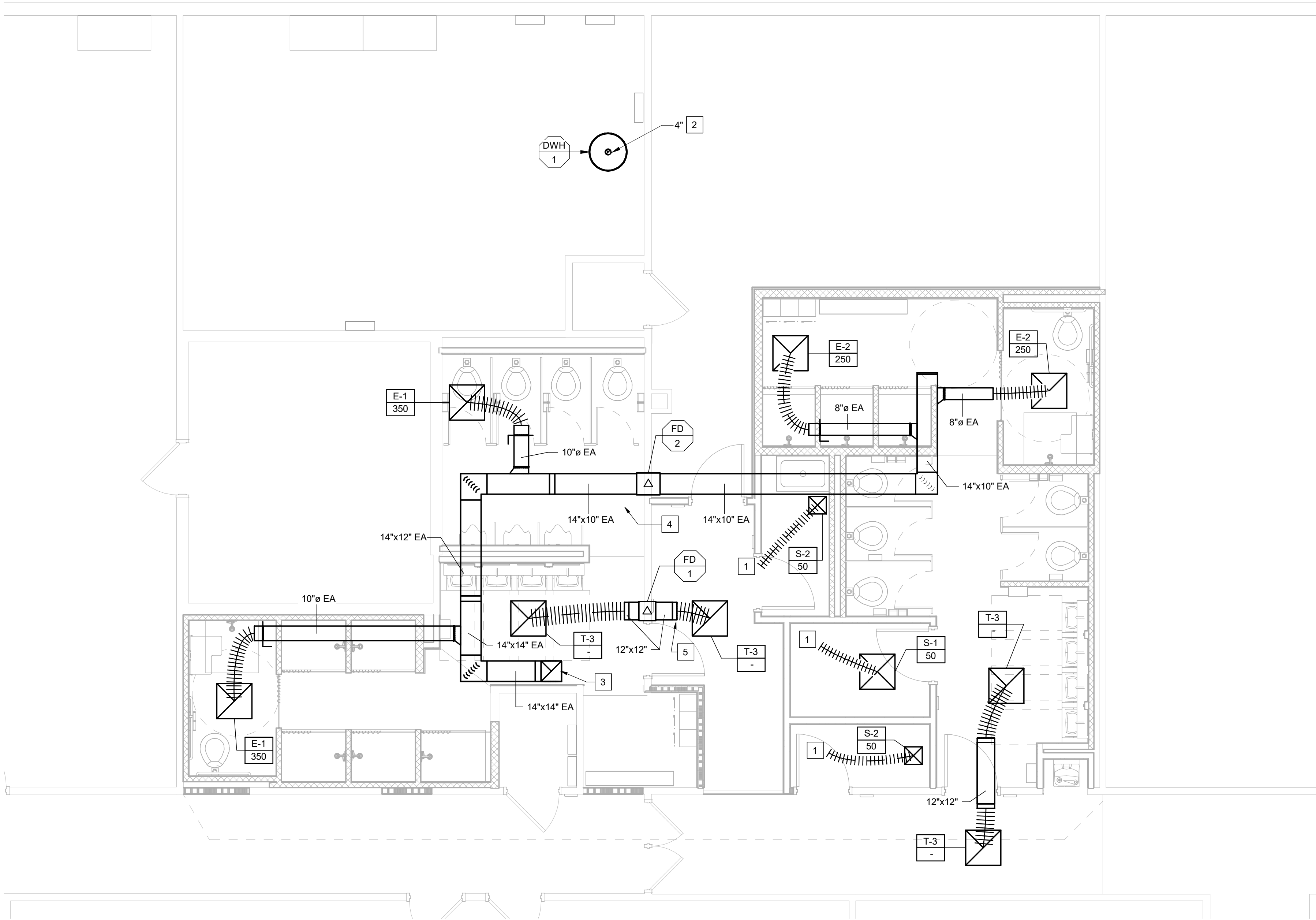
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DRAWN BY: JAC
CHECKED BY: MLW
DESIGNED BY: JAC

SHEET TITLE:
MECHANICAL FLOOR
PLANS - NEW WORK

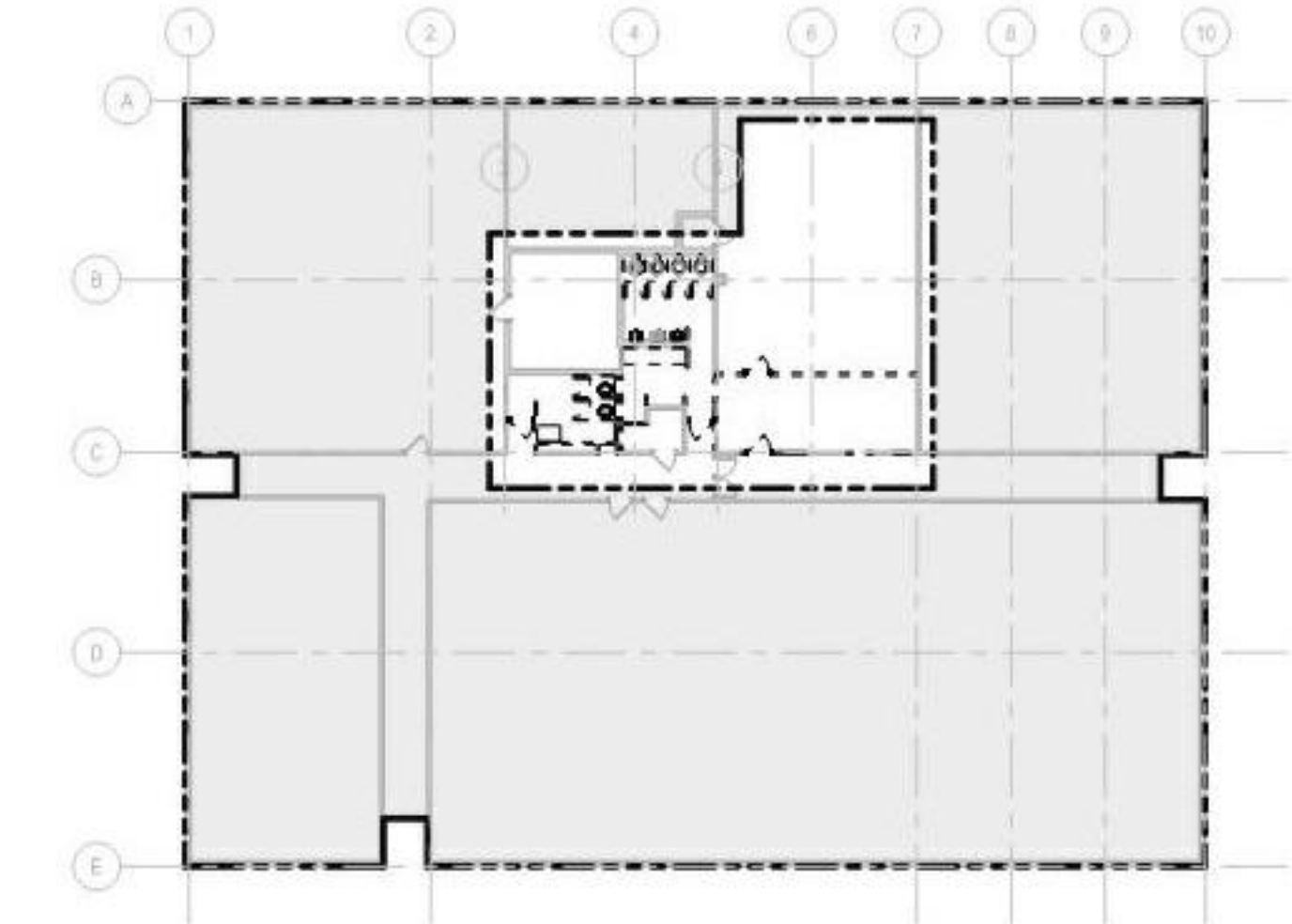
SHEET NUMBER:

M103

#	SHEET KEYNOTES
1	MODIFY EXISTING TAP LEFT FROM DEMOLITION WORK AND ROUTE 6" DUCTWORK TO NEW SUPPLY AIR DIFFUSER. INSTALL DAMPER IN EACH BRANCH.
2	ROUTE NEW WATER HEATER VENT PIPING THROUGH EXISTING HOLE IN ROOF, SEE DETAIL ON M-602.
3	ROUTE NEW EXHAUST DUCTWORK TO NEW EXHAUST FAN ON ROOF.
4	COORDINATE LOCATION OF CEILING ACCESS WITH FIRE DAMPER ACCESS.
5	CONNECT FLEX DUCT TO HARD DUCT WITH FLANGES SUCH THAT CONNECTION CAN BE USED AS ACCESS TO FIRE DAMPER.



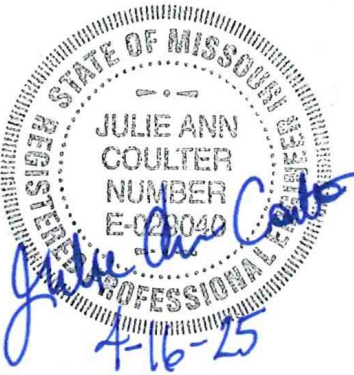
1 MECHANICAL MAIN LEVEL
1/4" = 1'-0"



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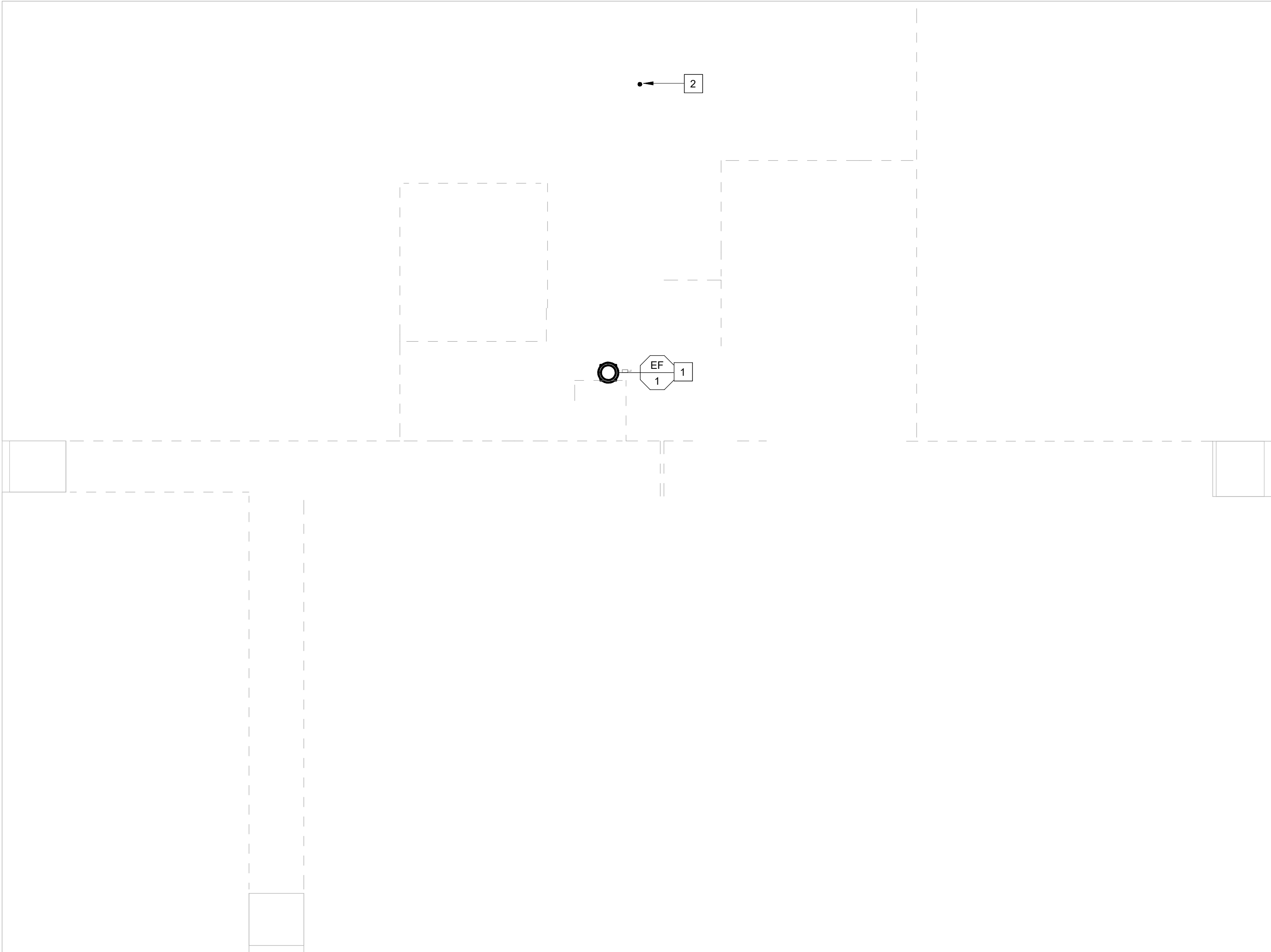
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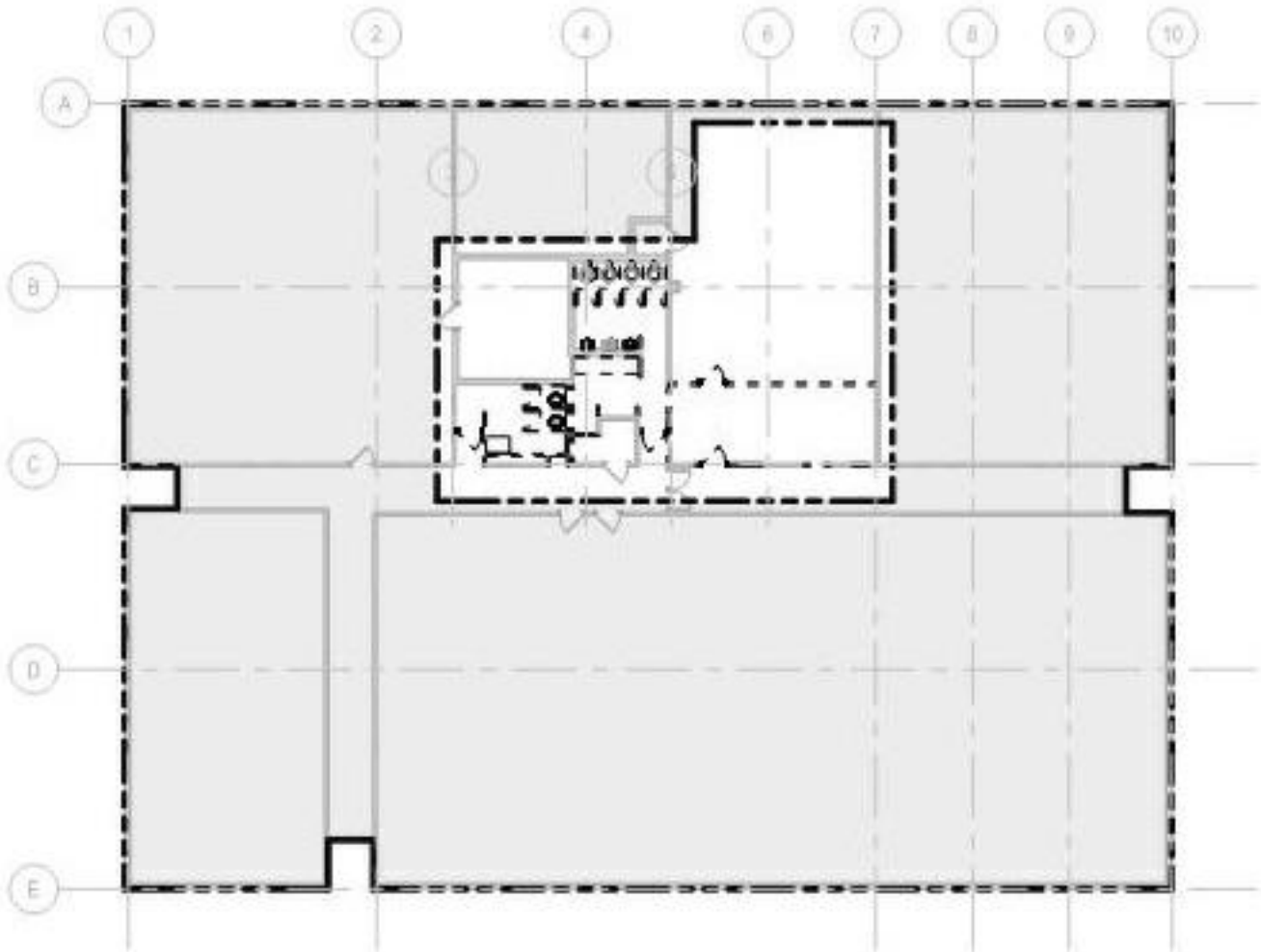
SHEET TITLE:
MECHANICAL ROOF
PLAN - NEW WORK

SHEET NUMBER:

M104



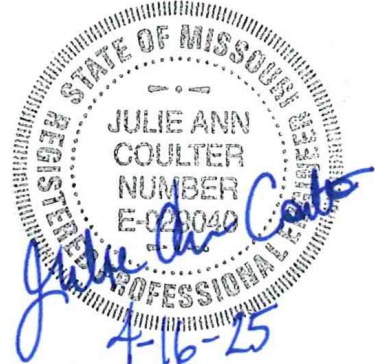
1 MECHANICAL ROOF LEVEL - NEW WORK
1/8" = 1'-0"



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

SHEET TITLE:
MECHANICAL
SCHEDULES & CONTROL
DIAGRAM

SHEET NUMBER:

M601

AIR DEVICE SCHEDULE

NOTES:

- COORDINATE BORDER FRAME WITH ARCHITECTURAL PLANS.
- PROVIDE WITH ACCESSORIES AS LISTED IN THE SPECIFICATIONS.
- PROVIDE WITH BACKPAN WITH SQUARE TO ROUND ADAPTER TO ACCOMODATE SCHEDULED NECK SIZE.
- PROVIDE WITH INTEGRAL BALANCING DAMPER.

MARK		MFR.	MODEL	TYPE	LOCATION	SERVICE	NECK SIZE (IN)	FACE SIZE (IN x IN)	MATERIAL	FINISH	MAX TPD (IN W/C)	MAX NOISE (NC)	NOTES
ID	#												
S	1	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	6	24x24	ALUMINUM	WHITE	0.1	30	1, 2, 4
S	2	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	6	12x12	ALUMINUM	WHITE	0.1	30	1, 2, 4
E	1	TITUS	OMNI	SQUARE PLAQUE	CEILING	EXHAUST AIR	10	24x24	ALUMINUM	WHITE	0.1	30	1, 2, 4
E	2	TITUS	OMNI	SQUARE PLAQUE	CEILING	EXHAUST AIR	8	24x24	ALUMINUM	WHITE	0.1	30	1, 2, 4
T	3	TITUS	OMNI	SQUARE PLAQUE	CEILING	TRANSFER AIR	12	24x24	ALUMINUM	WHITE	0.1	30	1, 2

EXHAUST FAN SCHEDULE

NOTES:

- SOUND POWER LEVEL RATINGS SHOWN IN DECIBELS, REFERRED TO 10(-12) WATTS CALCULATED PER AMCA STANDARD 301.
- PROVIDE GRAVITY BACKDRAFT DAMPER.

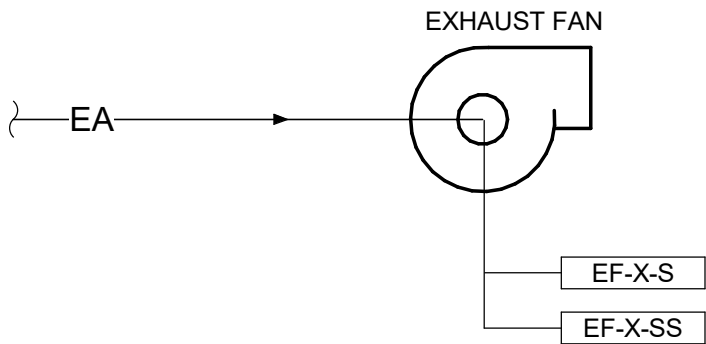
MARK		MFR.	MODEL	LOCATION	SERVICE	DRIVE	AIRFLOW (CFM)	ESP (IN WC)	MAX FAN SPEED (RPM)	MIN WHEEL DIA (IN)	MIN STATIC EFF (%)	MAX SOUND POWER RATING (INLET)								MAX WEIGHT (LBS)	ELECTRICAL DATA				NOTES
ID	#											OCTAVE									MCA	HP	VOLTS	PHASE	
												63	125	250	500	1000	2000	4000	8000						
EF	1	GREENHECK	G-120-VG	ROOF	RESTROOM VENTILATION	DIRECT	1200	0.5	1269	13	49	69	74	75	69	61	60	55	53	73		1/2	115	1	1.2

FIRE DAMPER SCHEDULE

NOTES:

- 165" F HEAT ACTUATED CLOSURE DEVICE. UNLESS NOTED OTHERWISE

MARK		MFR.	MODEL	TYPE	LOCATION	ORIENTATION	DUCT SIZE WxH (IN)	DAMPER RATINGS (HR)	FUSIBLE LINK TEMP (°F)	NOTES
ID	#									
FD	1	RUSKIN	DIBD2SS	DYNAMIC	MENS RESTROOM WALL	VERTICAL	12 x 12	1.5	165	1
FD	2	RUSKIN	DIBD2SS	DYNAMIC	MENS RESTROOM WALL	VERTICAL	14 x 10	1.5	165	1



SYSTEM DESCRIPTION

THE SYSTEM CONSISTS OF A CONSTANT VOLUME EXHAUST FAN AND A BACKDRAFT DAMPER.

EXHAUST FAN START: A CONTACT SHALL BE PROVIDED WITH THE LIGHTING TO NOTIFY THE EXHAUST FAN OF LIGHT STATUS. CONTACTS ARE PROVIDED FOR THESE 5 ZONES:

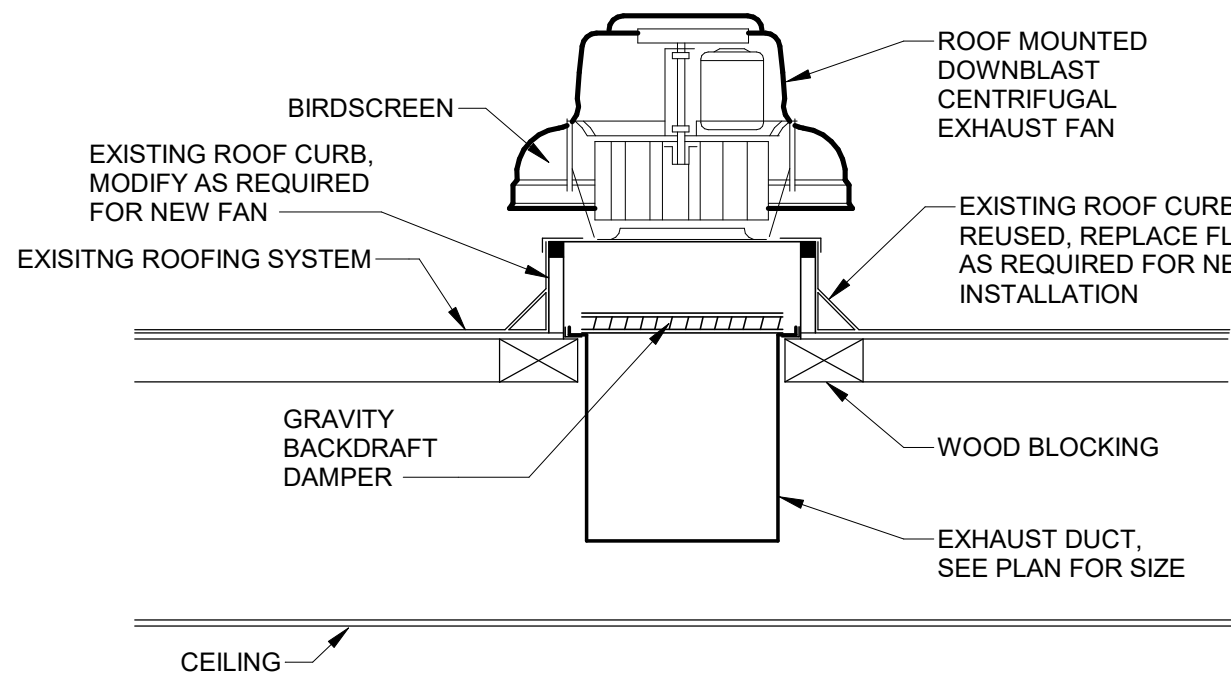
- 2 - MENS RESTROOM
- 2 - WOMENS RESTROOM
- 1 - LACTATION ROOM

A LIGHT SWITCH ACTIVATING A LIGHT TO COME ON IN ANY OF THE 5 ZONES SHALL START THE EXHAUST FAN.

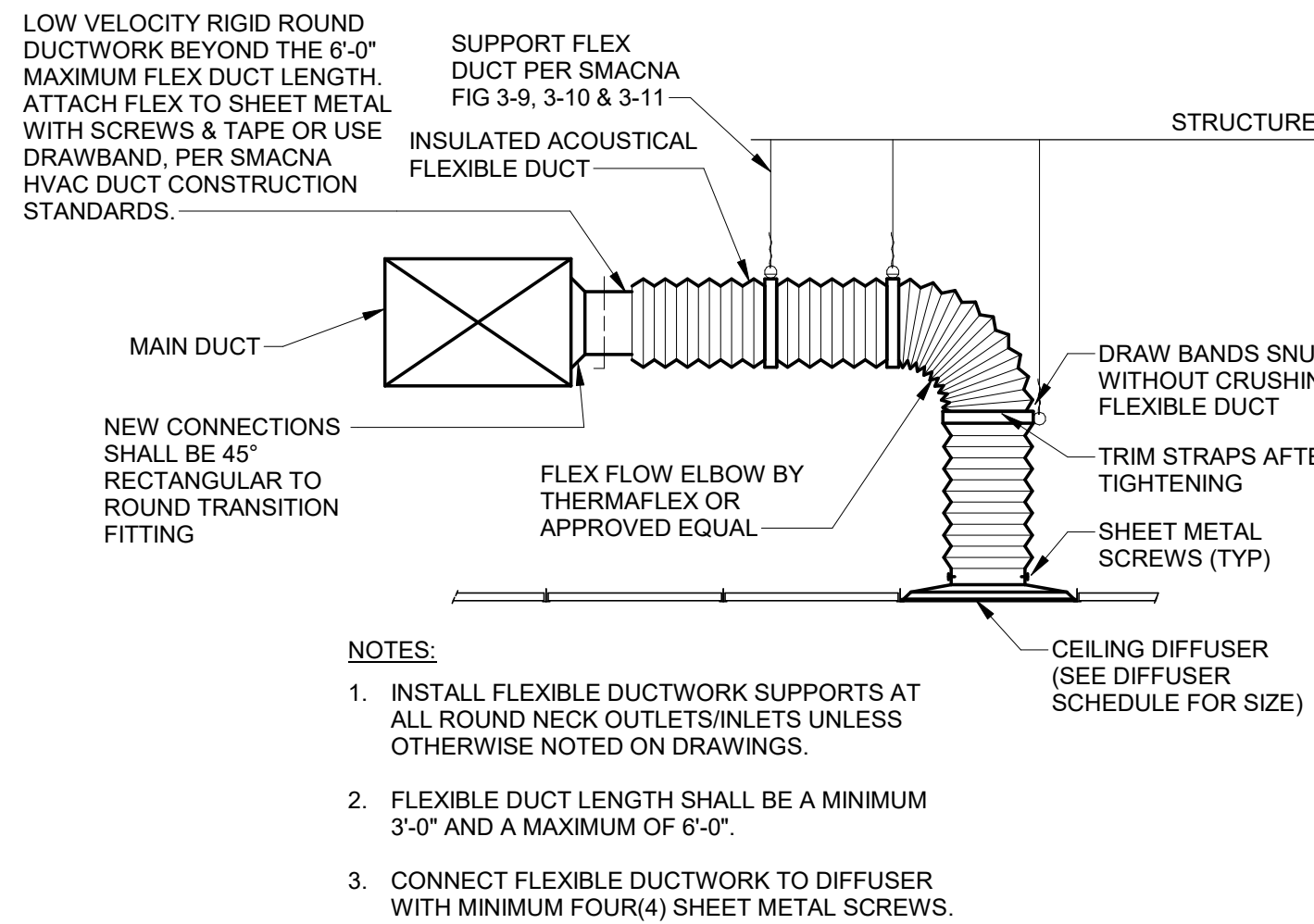
EXHAUST FAN STOP: THE LIGHTS ARE SET TO TURN OFF AFTER 15 MINUTES OF NO OCCUPANCY. THE EXHAUST FAN SHALL STOP WHEN ALL 5 ZONES INDICATE ALL LIGHTS ARE OFF.

NOTE: REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

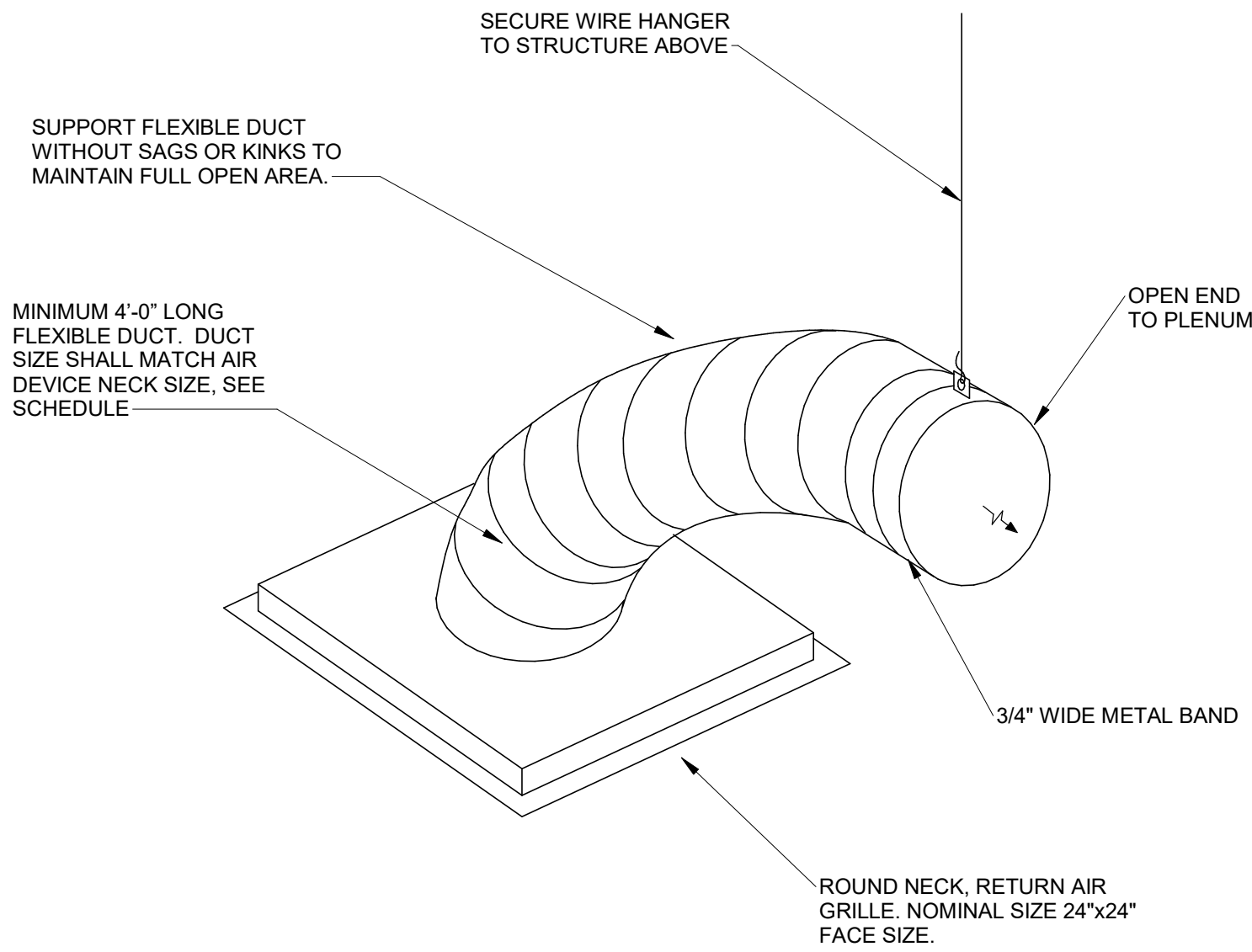
1 EXHAUST FAN (EF-1) CONTROL DIAGRAM
NOT TO SCALE



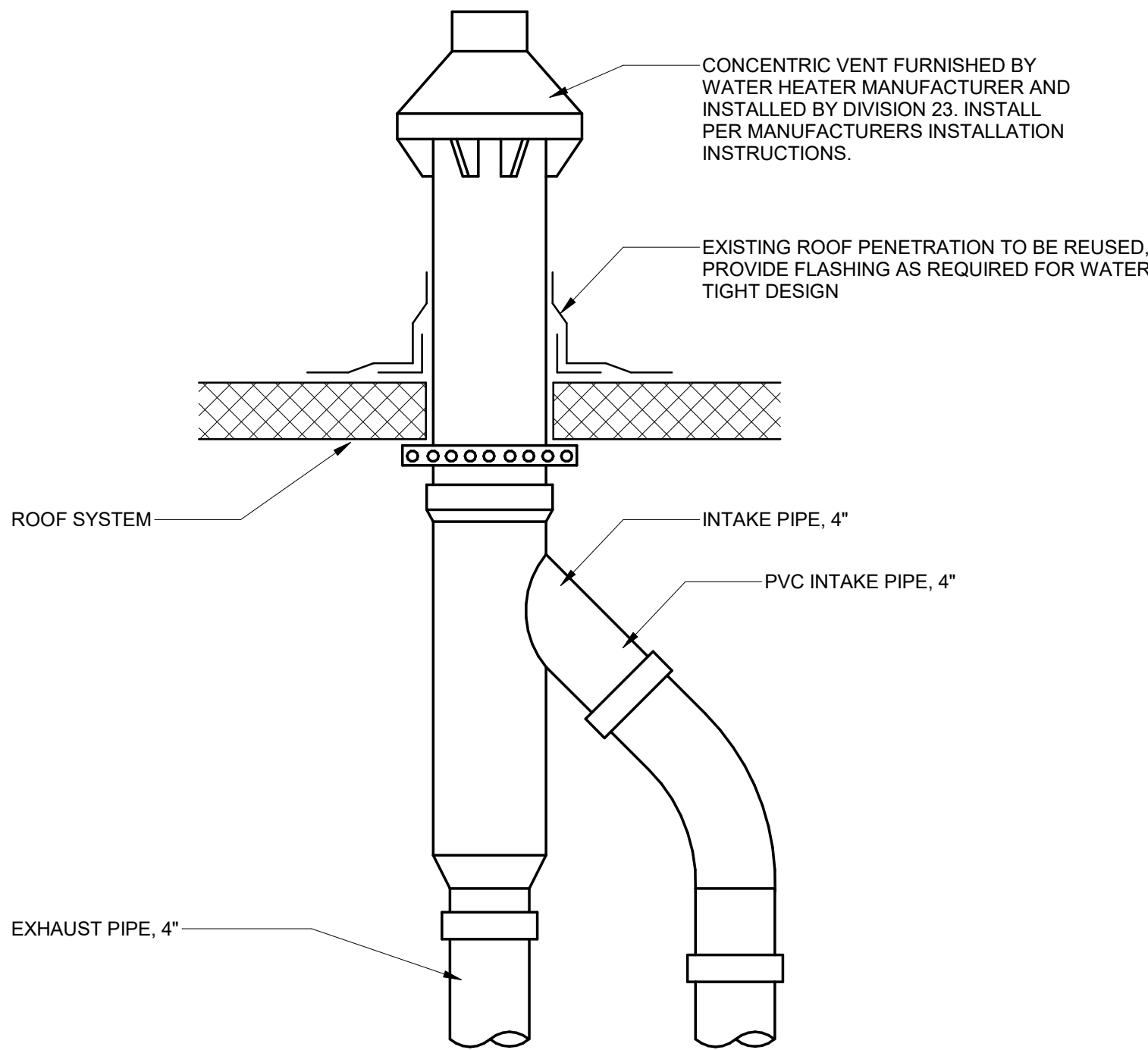
1 ROOF MOUNTED DOWNBLAST EXHAUST FAN DETAIL
NOT TO SCALE



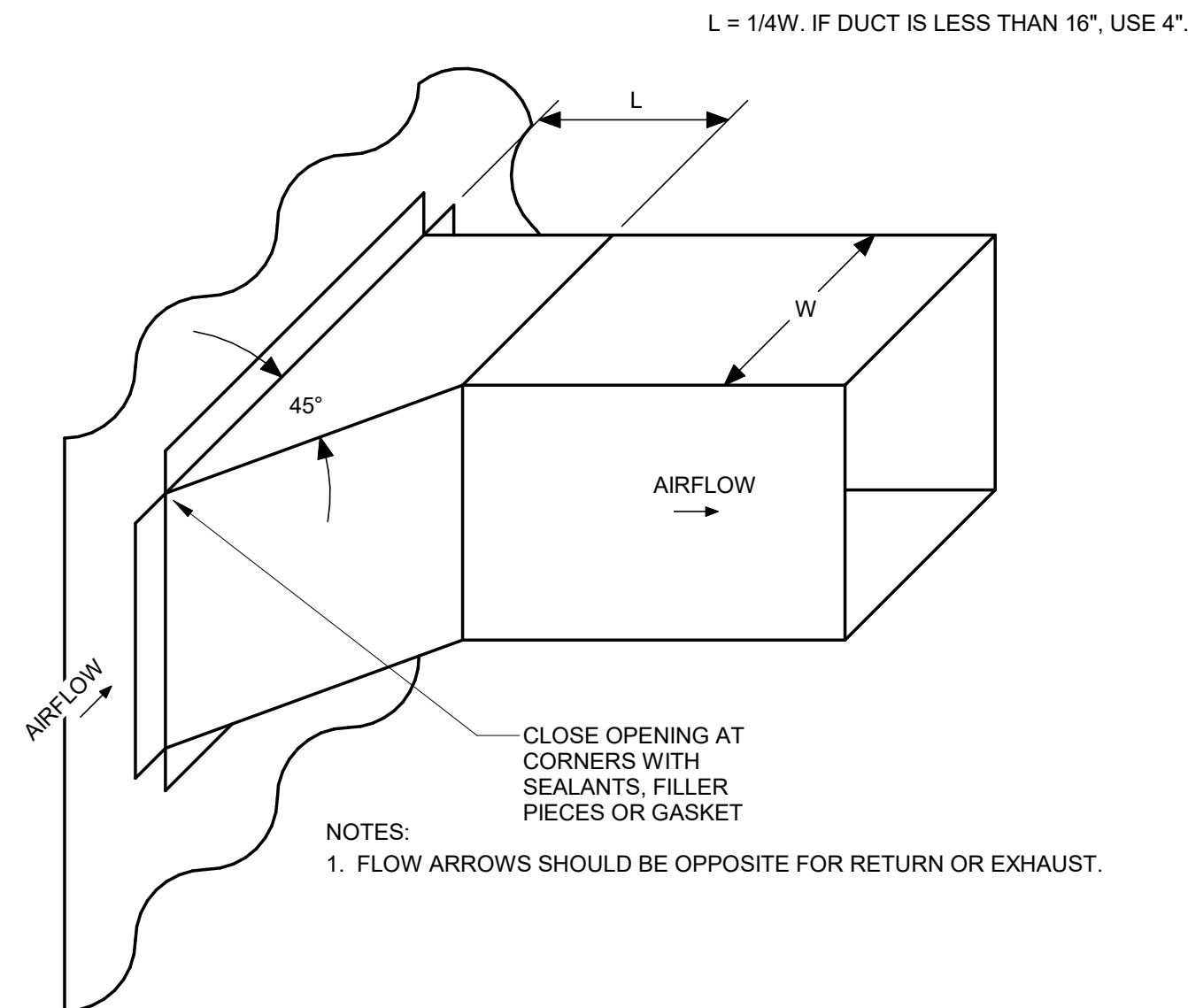
4 FLEXIBLE DUCT CONNECTION TO AIR OUTLET/INLET
NOT TO SCALE



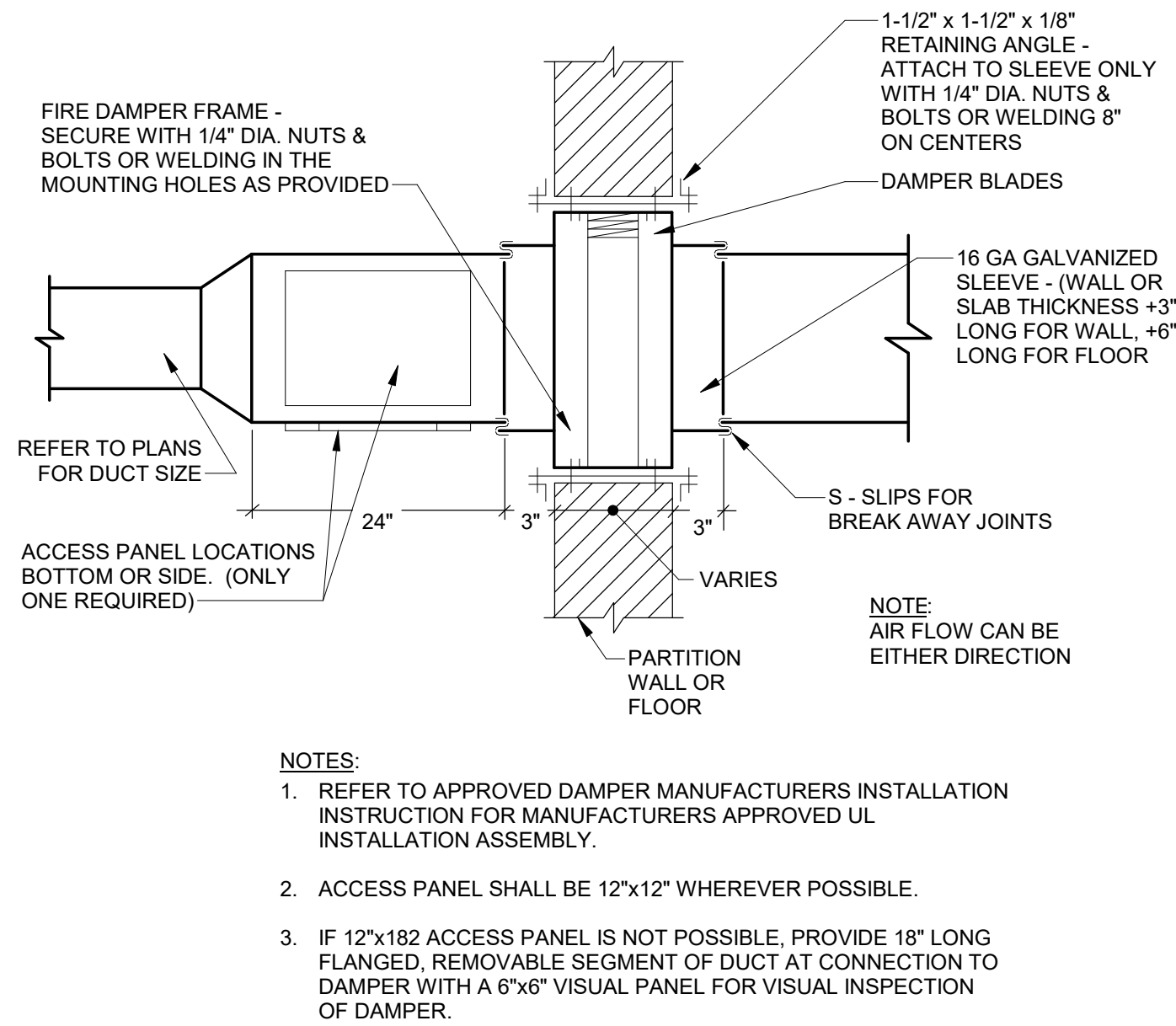
2 RETURN AIR FLEXIBLE DUCT BOOT
NOT TO SCALE



6 CONCENTRIC VENT TERMINATION
NOT TO SCALE



3 45 DEGREE BRANCH TAKE-OFF DETAIL
NOT TO SCALE



7 FIRE DAMPER INSTALLATION DETAIL
NTS

LIGHT FIXTURE SCHEDULE

MOUNTING: CEILING MOUNTING: REC - RECESSED SUR - SURFACE SEMI - SEMI RECESSED STR - STRUT SUSPENDED MOUNTING: AC-# - AIRCRAFT CABLE CH-# - CHAIN HUNG RP-# - ROD PENDANT CP-# - CONDUIT PENDANT (#FT) - DISTANCE FROM CEILING (#AFF) - ABOVE FINISH FLOOR	EXTERIOR MOUNTING: W - WALL P - POLE BP - BOLLARD TOP IG - IN-GRADE EXTERIOR POLE: AL - ALUMINUM ST - STEEL R - ROUND SQ - SQUARE SA - STRAIGHT TA - TAPERED (#FT) - POLE HEIGHT (#IN) - DIAMETER POLE	CEILING TYPE: ACT - ACOUSTIC CEILING TILE GYP - GYPSUM BOARD CEILING EXP - EXPOSED EXAMPLE: REC-GYP RECESSED GYPSUM BOARD CEILING	LISTING: #FR - FIRE RATED #H - HOURS IC - INSULATED CONTACT CR - CHICAGO RATED DAMP OR WET EXAMPLE: IC-1.5FR INSULATED CONTACT WITH FIRE RATED FOR 90 MINUTES.	LENS TYPE / COLOR: #P - POLY LENS #T - TEMPERED GLASS #AC - ACYLIC OPTIONS: # - 0.125, 0.156, ETC	TRIM TYPE / COLOR: SG - SINGLE GASKET DG - DOUBLE GASKET IP - INGRESS PROTECTION AM - ANTIMICROBIAL CS - CLEAR SEMI-SPECULAR	TEMPERATURE (K): K - KELVIN RGB WT (#K-#K) - WHITE TUNING (#K-#K) COLOR RANGE	COLOR RENDER INDEX (CRI): 80+ MIN TM-30 (CHROMATICITY): (Rf / Rg / Rth1 / Rcsht) Rf - FIDELITY INDEX Rg - RELATIVE GAMUT INDEX Rth1 - FIDELITY INDEX, HUE-BIM Rcsht - CHROMA SHIFT, HUE-BIM	VOLTAGE: UNV - 100V TO 277V 120V 208V 277V 480V	CONTROL: NA - ON / OFF STEP (0%, 50%, 100%) DIMMING: W - WIRELESS 0-10V DMX DALI PC - PHASE CONTROL (#%) - MIN DIMMING	EMERGENCY CONTROL: # WATT (90 MINUTES)
---	---	--	---	--	---	---	---	--	---	---

FIXTURE INFORMATION																LED / LAMP INFORMATION					DRIVER INFORMATION					REMARKS
TYPE	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	LISTING	LENS	TRIM	LUMENS	DISTRIBUTION	TEMP (K)	CRI	VOLTAGE	VA	CONTROL	EMERGENCY											
A1	WILLIAMS LIGHTING	DI SERIES	2 FOOT BY 2 FOOT VOLUMETRIC	REC-ACT	--	RIBBED ACRYLIC	--	3200	--	4000	80	UNV	26	NA	--	LUMENS AND WATTAGE LISTED PER LINEAR FOOT. PROVIDE LENGTH AS REQUIRED FOR CONTINOUS PERIMETER.										
A1E	WILLIAMS LIGHTING	DI SERIES	2 FOOT BY 2 FOOT VOLUMETRIC WITH BATTERY BACKUP DRIVER	REC-ACT	--	RIBBED ACRYLIC	--	3200	--	4000	80	UNV	26	NA	7W											
B1	WILLIAMS LIGHTING	39 SERIES	1 FOOT BY 4 FOOT WRAP	SUR-GYP	--	RIBBED ACRYLIC	--	3000	--	4000	80	UNV	23	NA	--											
C1	WILLIAMS LIGHTING	PX SERIES	PERIMETER WALL GRAZER	REC-GYP	--	--	--	400	--	4000	80	UNV	4	NA	--											
D1	WILLIAMS LIGHTING	6DR SERIES	6 INCH DOWNLIGHT	REC-GYP	--	--	CS	1000	WIDE	4000	80	UNV	9	NA	--											
D1E	WILLIAMS LIGHTING	6DR SERIES	6 INCH DOWNLIGHT WITH BATTERY BACKUP DRIVER	REC-GYP	--	--	CS	1000	WIDE	4000	80	UNV	9	NA	7W											
D2	WILLIAMS LIGHTING	6DR SERIES	6 INCH DOWNLIGHT WITH NON-CONDUCTIVE FLUSH LENS	REC-GYP	WET	DIFUSE ACRYLIC	CS	1000	WIDE	4000	80	UNV	9	NA	--											
V1	WILLIAMS LIGHTING	LLM SERIES	8 FOOT SURFACE ARCHITECTURAL ROUND LENS	SUR-W	--	FROSTED MATTE ACRYLIC	WHITE	600	--	4000	80	UNV	4	NA	--		LUMENS AND WATTAGE LISTED PER LINEAR FOOT.									

LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- ALL LIGHT FIXTURES SHALL BE BUY AMERICAN ACT COMPLIANT.
- UNLESS OTHERWISE STATED IN REMARKS. ALL FIXTURES ARE LED.
- LIGHT FIXTURE SHOP DRAWING AND LIGHTING CONTROL SHOP DRAWING SUBMITTAL SHALL BE SUBMITTED AT THE SAME TIME. APPROVAL WILL NOT BE GRANTED UNTIL BOTH ARE REVIEWED.
- REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS OF LUMINAIRES AND CEILING TYPES.
- ALL RECESSED DOWNLIGHTS SHALL HAVE SELF-FLANGED REFLECTORS U.O.N. AND SHALL BE INSTALLED SO THAT THE BOTTOM OF THE THROAT IS EVEN WITH THE FINISHED CEILING PLANE. THE OVERLAPPING FLANGE MUST THEN FIT FLUSH TO THE CEILING PLANE/THROAT. NO LIGHT LEAK MUST BE VISIBLE. ALL MISCELLANEOUS HARDWARE ABOVE THE CEILING PLANE TO ACCOMPLISH THE ABOVE SHALL BE INCLUDED IN THE BASE BID.
- ALL LUMINAIRES SHALL HAVE A UL LABEL.
- IN ALL MECHANICAL ELECTRICAL EQUIPMENT AREAS, CONTRACTOR TO COORDINATE LUMINAIRE LOCATIONS SUCH THAT LIGHT LUMINAIRES RUN PARALLEL TO THE FACE OF THE EQUIPMENT AND OVER AISLES BETWEEN EQUIPMENT. INSTALL AT EXACT LOCATIONS AND AT EXACT HEIGHT TO ILLUMINATE ALL GAGES, PANELS, CONTROLS, VALVES, ETC. CHAIN HANGING, STEM HANGING, UNISTRURT HANGING, ETC. ARE ACCEPTABLE METHODS.
- WHEN LUMINAIRES ARE INSTALLED IN CONTINUOUS ROWS OF TWO (2) OR MORE, LUMINAIRES SHALL BE APPROVED FOR USE AS WIREWAY.
- THE MANUFACTURER LISTED IS THE BASIS-OF-DESIGN. SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS. COMPLETE CATALOG NUMBER IN THIS LIGHT FIXTURE SCHEDULE ARE NOT BE LISTED. ORDER LUMINAIRE BASED ON DESCRIPTION, PARTIAL CATALOG NUMBER AND SPECIFICATIONS.
- VERIFY COMPATIBILITY OF ALL DIMMING DRIVERS WITH SPECIFIED DIMMING CONTROLS PRIOR TO ORDERING AND PROVIDE APPROPRIATE COMPONENTS TO CREATE A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
- ALL LUMINAIRES SHOWN ON THIS SCHEDULE MAY NOT BE USED ON THE VARIOUS PLANS. ALSO, THE USE OF ONLY CERTAIN NUMERICAL SUBSCRIPTS FOR LUMINAIRE TYPES (e.g. H2, H3, A2, A3, etc.) ON THIS PROJECT DOES NOT NECESSARILY MEAN THAT AN H1 OR A1 IS USED OR MISSING.
- PROVIDE ALL MISCELLANEOUS HARDWARE, CLIPS, ANGLES, FRAMES, ETC. AS REQUIRED TO MOUNT THE LUMINAIRES IN OR ON THE SURFACES THEY ARE TO BE INSTALLED.
- WHEN VARYING FROM BASIS-OF-DESIGN LUMINAIRE, PROVIDE A LUMINAIRE UTILIZING ±10% OF THE LED LUMENS INDICATED IN LUMINAIRE SCHEDULE.
- REFER TO SPECIFICATION SECTION 265100 LIGHTING FOR ADDITIONAL INFORMATION CONCERNING LUMINAIRES, FINISHES, DRIVERS, ETC.
- ALL LUMINAIRES SHALL OPERATE AT 120 OR 277 VOLTS OR OTHER VOLTAGE AS REQUIRED BY THE CIRCUITS AND/OR PANELS TO WHICH THEY ARE CONNECTED.
- WHEN INSTALLING LUMINAIRES, USE THE LUMINAIRE MANUFACTURER'S MOUNTING HARDWARE AND FOLLOW ALL MANUFACTURER'S INSTALLATION DIRECTIONS.

LIGHTING CONTROL SEQUENCE

S - "INDIVIDUAL ZONE WALL CONTROLLER". REFER TO FLOOR PLAN FOR QUANTITY OF ZONES SHOWN IN THE AREA. EACH ZONE SHALL HAVE A ITS OWN INDEPENDENT CONTROLLER WITHIN THE WALL CONTROLLER.													
D - "INDIVIDUAL DIMMING ZONE WALL CONTROLLER". EACH ZONE SHALL HAVE ITS OWN INDEPENDENT CONTROLLER CAPABLE OF ON, OFF AND DIMMING WITIN THE WALL CONTROLLER. REFER TO FLOOR PLAN FOR QUANTITY OF ZONES SHOWN IN THE AREA.													
P - "PRESET SCENE CONTROLLER". NUMBER INDICATES QUANTITY OF PRESET SCENE CONTROLS. EACH PRESET SCENE SHALL BE CAPABLE OF TURNING SCENE ON, OFF AND DIM.													
DL Ft. Cd. - "DAY LIGHT PHOTO SENSOR". MUST AUTOMATICALLY DIM INDICATED LUMINAIRES SHOWN ON FLOOR PLANS WITH DAY LIGHT ZONES. MAINTAIN MAXIMUM FOOT CANDLE RATING INDICATED AS MEASURED FROM +30" AFF.													
MAN - MANUAL CONTROL.		OCC - OCCUPANCY ON AND / OR VACANCY OFF.			TC - TIME CLOCK.			ETD - EMERGENCY TRANSFER DEVICE.					
SEQUENCE ID	AREA DESCRIPTION	WALL CONTROLLER			AUTOMATIC CONTROLS				DL	Ft. Cd.	ETD	REMARKS	
		S	D	P	MAN	OCC	TC	MAN	OCC	TC			
LC01	RESTROOM, LOCKER, TOILETS	X	-	-	X	X	-	X	X	-	-	PROVIDE WITH CONTACT TO NOTIFY FAN OF LIGHT STATUS WITHIN SPACE. COORDINATE WITH DIVISION 23 AND REFER TO MECHANICAL SEQUENCE OF OPERATIONS DRAWINGS AND EXHAUST FAN CONTROL DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.	
LC02	SHOWERS	X	-	-	X	X	-	-	X	-	-	PROVIDE WITH CONTACT TO NOTIFY FAN OF LIGHT STATUS WITHIN SPACE. COORDINATE WITH DIVISION 23 AND REFER TO MECHANICAL SEQUENCE OF OPERATIONS DRAWINGS AND EXHAUST FAN CONTROL DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.	
LC03	LACTATION	X	-	-	X	-	-	X	X	-	-	PROVIDE WITH CONTACT TO NOTIFY FAN OF LIGHT STATUS WITHIN SPACE. COORDINATE WITH DIVISION 23 AND REFER TO MECHANICAL SEQUENCE OF OPERATIONS DRAWINGS AND EXHAUST FAN CONTROL DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.	
LC04	JAN., STORAGE	X	-	-	X	-	-	X	X	-	-		

LIGHTING CONTROL NOTES:

- LIGHT FIXTURE SHOP DRAWING AND LIGHTING CONTROL SHOP DRAWING SUBMITTAL SHALL BE SUBMITTED AT THE SAME TIME. APPROVAL WILL NOT BE GRANTED UNTIL BOTH ARE REVIEWED.
- THE LIGHTING CONTROL SYSTEM SCHEDULE SHALL BE CONSIDERED PERFORMANCE CRITERIA. PROVIDE ALL CONTROL DEVICES, WIRING, RACEWAY, PROGRAMMING, AND LABOR AS REQUIRED TO OBTAIN THE SEQUENCES IDENTIFIED FOR EACH SPACE.
- PROVIDE CONTROL DRAWINGS, SEQUENCE DESCRIPTIONS, PUSHBUTTON CONFIGURATIONS (WITH LIGHTNG LOADS IDENTIFIED) AND WIRING DIAGRAMS INDICATING THE PROPOSED LIGHTING CONTROLS WITHIN THE SHOP DRAWING SUBMITTAL FOR APPROVAL.
- MOUNT AREA CONTROLLERS AND POWER PACKS ABOVE CEILING, NEAR WALL CONTROLLERS IN THE INTERIOR SIDE OF THE SPACE SERVED. ROOM CONTROLLERS SERVING CORRIDORS MAY BE LOCATED IN ELECTRICAL ROOMS.
- PRIOR TO CONSTRUCTION CLOSEOUT, DEMONSTRATE LIGHTING CONTROLS TO OWNER FOR FINAL APPROVAL. MODIFY PROGRAMMING AND ILLUMINATION AS REQUIRED TO MEET OWNERS FINAL REQUIREMENTS.
- EACH SWITCH LEG SHOWN ON LIGHTING DRAWINGS IS A ZONE, PROVIDE A TOGGLE/DIMMER SWITCH FOR EACH SWITCH LEG/ZONE SHOWN ON LIGHTING FLOOR PLANS.

EQUIPMENT DATA SCHEDULE - ELECTRICAL

NOTES:

1. ALL MAGNETIC AND SOLID STATE STARTERS ARE TO BE EQUIPPED WITH AUXILIARY CONTACTS, PILOT LIGHTS AND FUSED CONTROL POWER TRANSFORMERS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2. FIRE ALARM INTERLOCK.

3. INTEGRAL DISCONNECT SWITCH.

4. MOUNT DISCONNECT SWITCH ON EQUIPMENT HOUSING.

5. DISCONNECT/CONTROL PANEL PROVIDED BY MANUFACTURER.

6. INTEGRAL CIRCUIT BREAKER DISCONNECT PROVIDED WITH VFD.

BRANCH CIRCUIT:

REFER TO FEEDER SCHEDULE WHEN THIS COLUMN CONTAINS A FEED DESIGNATION INSTEAD OF CONDUCTOR SIZE.

DISCONNECT SWITCH TYPE:

NF - NON FUSED
F - FUSED
TOG - TOGGLE
REC - DUPLEX RECEPACLE

STARTER TYPE:

COMB1 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH FUSED DISCONNECT SWITCH
NF - NON FUSED
COMB2 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH UNFUSED DISCONNECT SWITCH
COMB3 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER DISCONNECT
COMB4 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH MAGNETIC ONLY MOLDED CASE CIRCUIT BREAKER DISCONNECT
FVNR - FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITHOUT DISCONNECT
MAN - MANUAL MOTOR STARTER WITH DISCONNECT SWITCH AND REPLACEABLE THERMAL OVERLOAD CONTACTS
SDS - STAR DELTA STARTER
PWCP - PREWIRED CONTROL PANEL
VFD - VARIABLE FREQUENCY DRIVE

STARTER ACCESSORIES:

HOAP - HOA WITH PILOT LIGHT
PB - START/STOP PUSH BUTTON (MOMENTARY CONTACT)

SPECIFICATION DIVISION NUMBER:

DIVISION 14 - CONVEYING EQUIPMENT
DIVISION 21 - FIRE PROTECTION
DIVISION 22 - PLUMBING
DIVISION 23 - MECHANICAL
DIVISION 26 - ELECTRICAL

MARK		EQUIPMENT	LOCATION	FURN. BY	MOTOR OR EQUIPMENT DATA								FED FROM	BRANCH CIRCUIT	DISCONNECT SWITCH AT EQUIPMENT						STARTER					NOTES				
ID	#				AMPS	KW	HP	VOLTS	PHASE	MIN SCRR	INST. BY	CONN. BY			TYPE	NEMA ENCLS. TYPE	SWITCH/ FUSE SIZE	FURN. BY	INST. BY	CONN. BY	NEMA SIZE	NEMA ENCLS. TYPE	TYPE	BREAKER/ TRIP	ACCES.		FURN. BY	CONN. BY	CONTROL WIRING	
DWH	1	DOMESTIC WATER HEATER	UTILITY	22	5				115	1	5K	22	22	I-LINE	(2)#12, (1)#12G, 3/4C	TOG	1	20/-	26	26	26	-	-	PWCP	-	-	22	26	22	
EF	1	EXHAUST FAN	ROOF	23				1/2	115	1	5K	23	26	I-LINE	(2)#12, (1)#12G, 3/4C	NF	3R	20/-	26	26	26	1	3R	COMB2	-	HOAP	26	26	23	4
HWRP	1	HOT WATER RETURN PUMP	UTILITY	22	0.54				115	1	5K	22	26	I-LINE	(2)#12, (1)#12G, 3/4C	TOG	1	20/-	26	26	26	-	-	PWCP	-	-	22	26	22	

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PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

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DATE: _____
ISSUE DATE: 4-16-2025

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DRAWN BY: CMB
CHECKED BY: TJB
DESIGNED BY: CMB

SHEET TITLE:

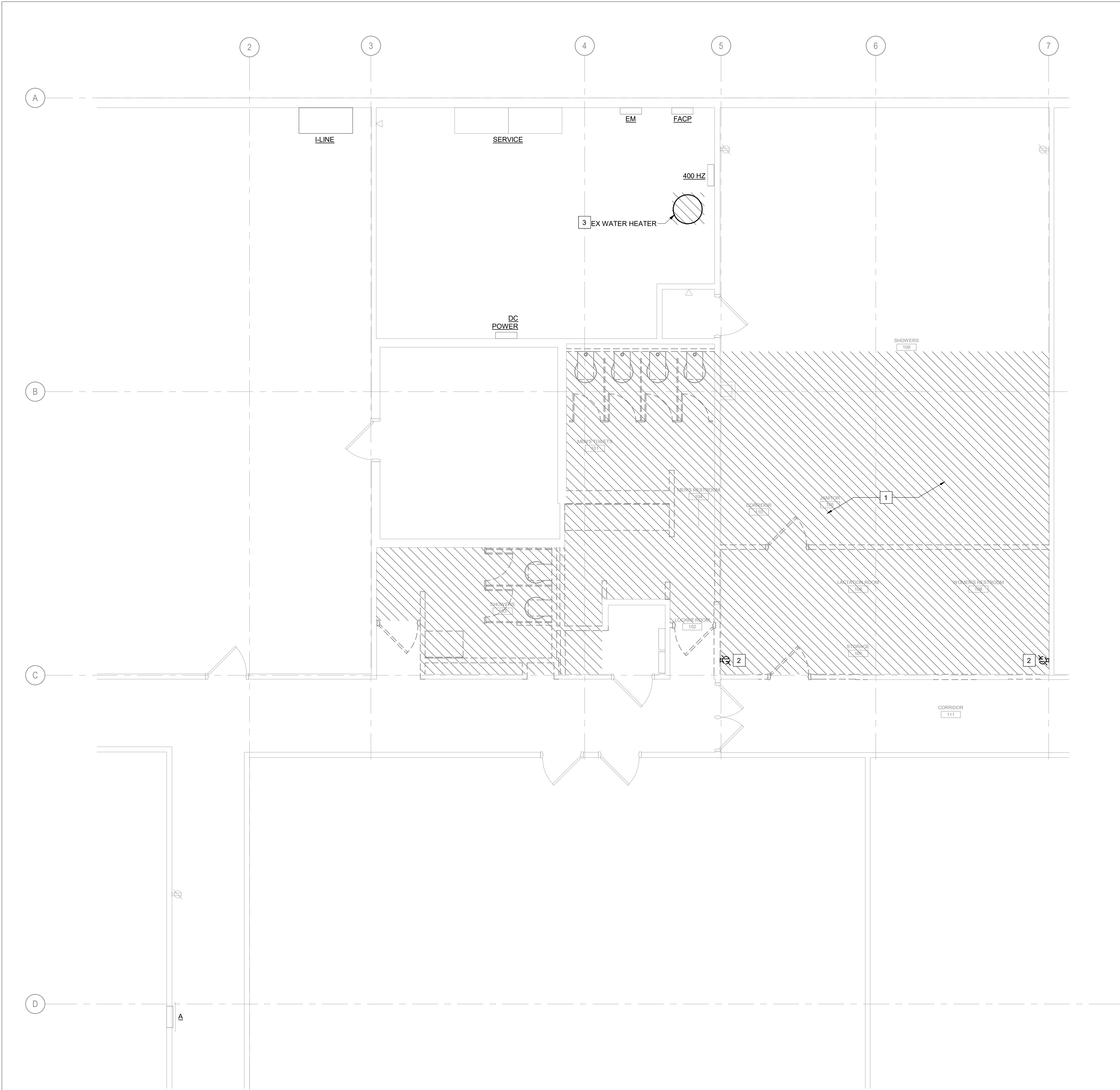
ELECTRICAL
SCHEDULES

SHEET NUMBER:

E-600

4-16-2025

SHEET 26 OF 31



SHEET GENERAL NOTES

- A. NOT ALL ELECTRICAL DEVICES AND EQUIPMENT ARE SHOWN. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E000 AND SPECIFICATIONS FOR MORE INFORMATION.
- B. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING FIXTURES, EQUIPMENT, OUTLETS, ETC., TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE. EXTEND AND RECONNECT RACEWAYS AND WIRING FOR EXISTING CIRCUIT(S) WHICH MUST BE RE-ROUTED OR WHICH ARE PARTIALLY ABANDONED TO POWER THE REMAINING DEVICES OR EQUIPMENT ON THE CIRCUIT(S).
- C. REPLACE OR RE-INSTALL ALL PORTIONS OF THE BUILDING (CEILING TILES, WALLS, ETC.) REMOVED TO ACCOMMODATE THE REMOVAL OR RE-INSTALLATION OF ANY ELECTRICAL DEVICE, EQUIPMENT, ETC. USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.

#

SHEET KEYNOTES

1. HATCHED AREA INDICATES SCOPE OF WORK AREA. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, SUCH AS BUT NOT LIMITED TO LIGHT FIXTURES, RECEPTACLES, SWITCHES, ETC., WITHIN PARTITIONS AND CEILINGS TO BE DEMOLISHED. DISCONNECT AND MAKE SAFE ALL MECHANICAL AND PLUMBING EQUIPMENT WITHIN SCOPE OF WORK AREA TO BE REMOVED. COORDINATE WITH DIV 22 AND DIV 23 FOR QUANTITIES AND LOCATIONS.
2. APPROXIMATE LOCATION OF WALL MOUNTED SPECIAL POWER (VDC AND 400 HZ) OUTLETS AND WALL AND FLOOR MOUNTED GROUNDING BOXES. DISCONNECT AND DEMOLISH SPECIAL POWER OUTLETS BACK TO LAST OUTLET REMAINING IN SERVICE. REMOVE GROUNDING BOXES AND REMOVE GROUNDING CABLING BACK TO SLAB AND CUT FLUSH WITH SLAB. UPDATE PANELBOARD DIRECTORY TO REMOVE IDENTIFICATION OF THIS LOAD.
3. DISCONNECT AND MAKE SAFE FOR REMOVAL OF EQUIPMENT BY DIVISION 22. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST DEVICE REMAINING IN SERVICE OR BACK TO SOURCE. UPDATE PANELBOARD DIRECTORY TO REMOVE IDENTIFICATION OF THIS LOAD.

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SHEET TITLE:
ELECTRICAL FLOOR
PLAN - DEMO

SHEET NUMBER:

ED100

4-16-2025

SHEET 27 OF 31

#

SHEET KEYNOTES

1. DISCONNECT AND MAKE SAFE FOR REMOVAL OF EQUIPMENT BY DIVISION 23. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST DEVICE REMAINING IN SERVICE OR BACK TO SOURCE.

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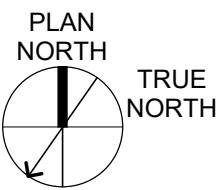
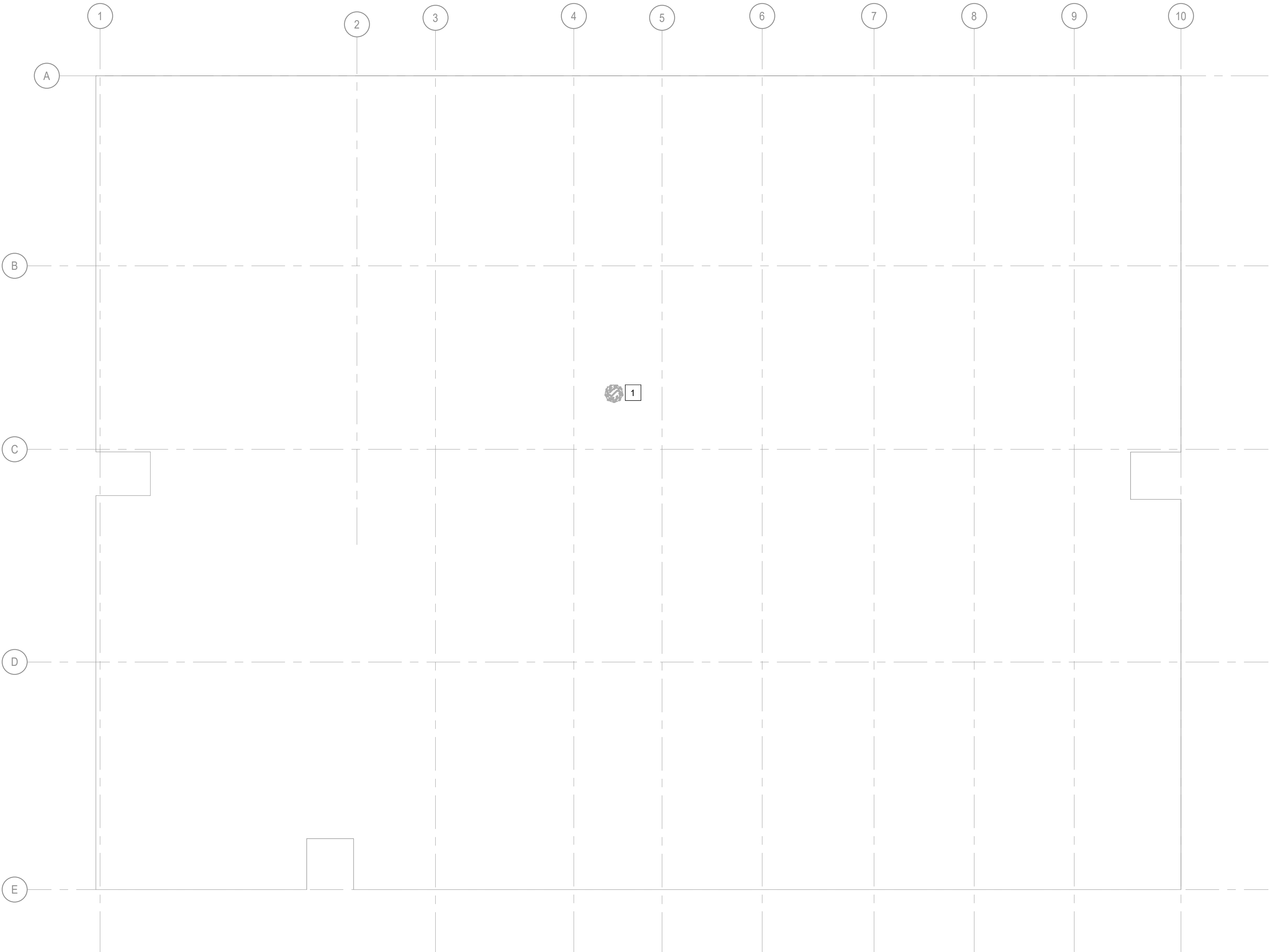
SHEET TITLE:
ELECTRICAL ROOF
PLAN - DEMO

SHEET NUMBER:

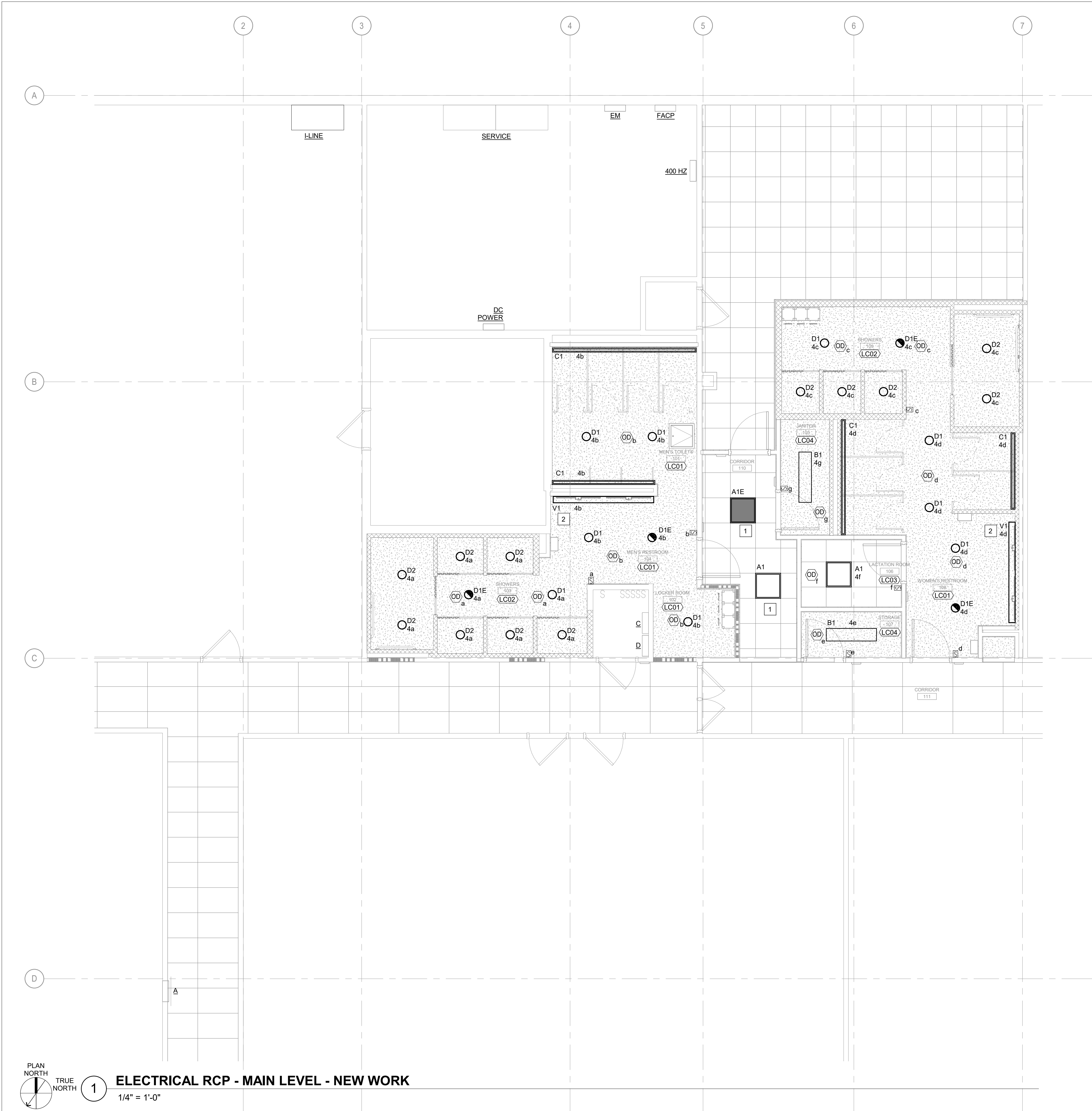
ED101

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SHEET 28 OF 31



1 ELECTRICAL ROOF PLAN - DEMO
1/8" = 1'-0"



SHEET GENERAL NOTES

- INTENT OF CIRCUIT NUMBERS SHOWN IS TO IDENTIFY WHICH DEVICES AND EQUIPMENT ON THE SAME CIRCUIT AND DO NOT NECESSARILY CORRELATE TO POSITIONS IN PANELBOARDS OR SWITCHBOARDS. UNLESS OTHERWISE NOTED, PROVIDE 20A, 1-POLE CIRCUIT BREAKER FOR EACH CIRCUIT IDENTIFIED AND FEED FROM I-LINE DISTRIBUTION PANELBOARD IN AVAILABLE SPACE.
- MOUNT LIGHTING FIXTURE TYPE V1 AT 7 FEET AFF TO CENTER OF FIXTURE.

SHEET KEYNOTES

- CONNECT NEW LIGHT FIXTURES TO EXISTING CORRIDOR LIGHTING CIRCUIT AND CONTROLS. EXTEND AND MODIFY EXISTING CONTROLLED LIGHTING CIRCUIT AS REQUIRED.
- MOUNT CENTERED ABOVE SINKS AT APPROXIMATELY 7 FEET AFF TO CENTER OF FIXTURE.

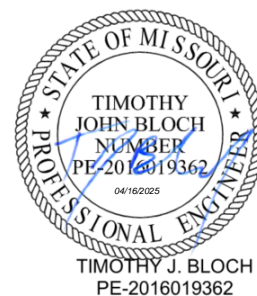
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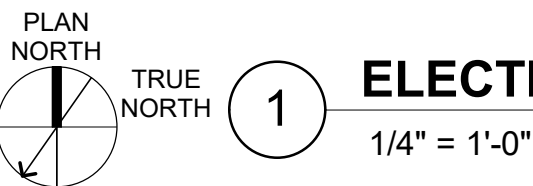
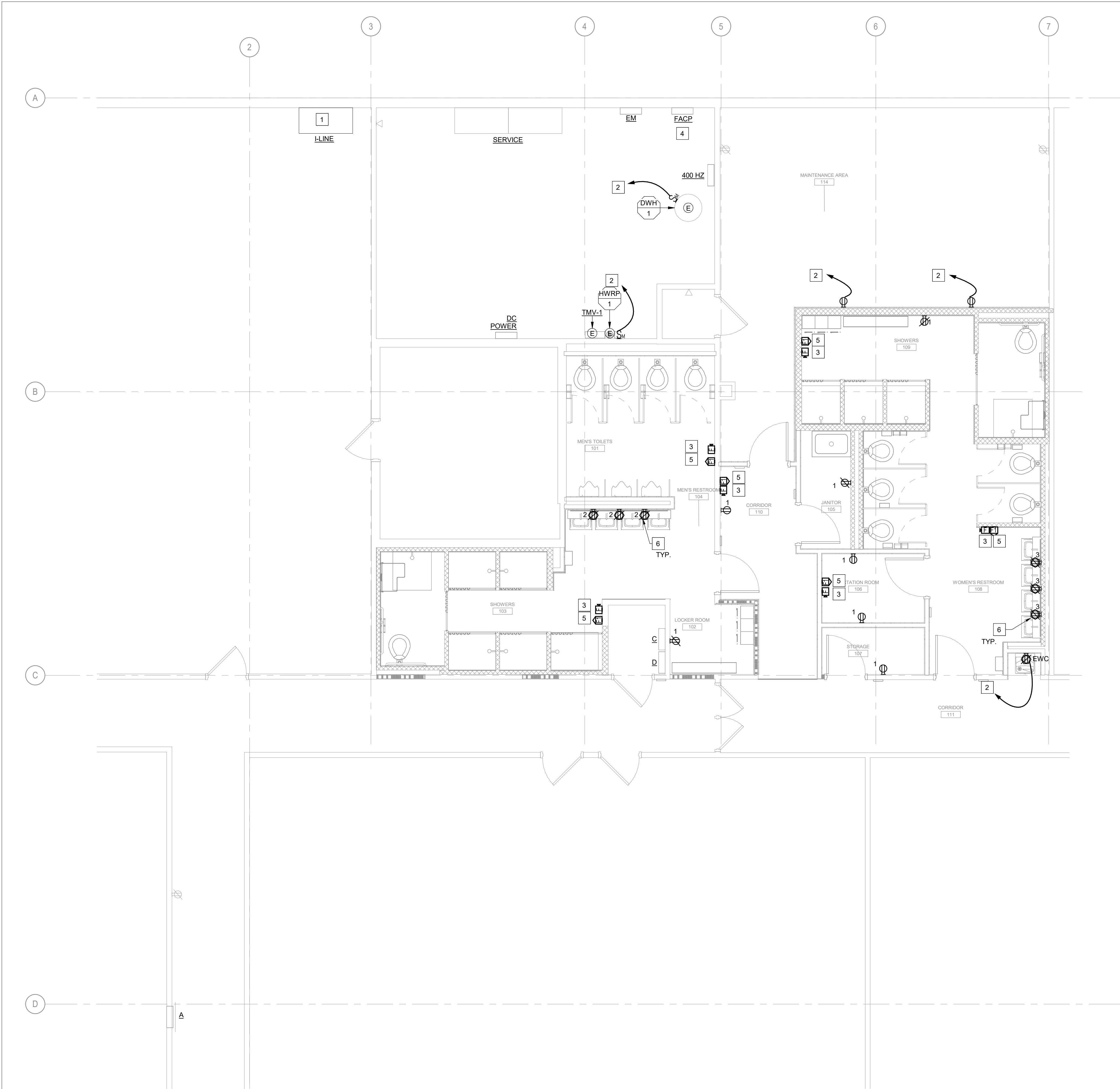
SHEET TITLE:
ELECTRICAL RCP - MAIN
LEVEL - NEW WORK

SHEET NUMBER:

EL100

4-16-2025

SHEET 29 OF 31



ELECTRICAL PLAN - MAIN LEVEL - NEW WORK

1/4" = 1'-0"

SHEET GENERAL NOTES

1. INTENT OF CIRCUIT NUMBERS SHOWN IS TO IDENTIFY WHICH DEVICES AND EQUIPMENT ON THE SAME CIRCUIT AND DO NOT NECESSARILY CORRELATE TO POSITIONS IN PANELBOARDS OR SWITCHBOARDS. UNLESS OTHERWISE NOTED, PROVIDE 20A, 1-POLE CIRCUIT BREAKER FOR EACH CIRCUIT IDENTIFIED AND FEED FROM I-LINE DISTRIBUTION PANELBOARD IN AVAILABLE SPACE.
2. WHERE MULTIPLE FIRE ALARM STROBES ARE WITHIN THE SAME ROOM OR AREA, PROVIDE SYNCHRONIZATION MODULES.
3. UNLESS OTHERWISE NOTED, ALL FIRE ALARM CABLING SHALL BE IN RED CONDUIT.
4. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUITS SHALL BE (2)#12 IN 3/4 INCH CONDUIT.

SHEET KEYNOTES

1. EXISTING DISTRIBUTION PANELBOARD IS SQUARE D, HCW I-LINE TYPE, 208Y/120V, 800A. MODIFY AND RE-ARRANGE EXISTING CIRCUIT BREAKERS TO MAKE SPACE FOR NEW CIRCUIT BREAKERS AS REQUIRED.
2. PROVIDE DEDICATED 15A 1-POLE CIRCUIT BREAKER IN AVAILABLE SPACE IN I-LINE DISTRIBUTION PANELBOARD.
3. PROVIDE NEW FIRE ALARM BELL COMPATIBLE WITH EXISTING FIRE ALARM CONTROL PANEL LOCATED IN UTILITY ROOM. CONNECT TO EXISTING FIRE ALARM CIRCUIT SERVING ZONE OF AREA. MODIFY OR EXTEND EXISTING FIRE ALARM CIRCUIT AS REQUIRED. BELL SHALL BE 6 INCH, STEEL WITH RED POWDER COAT FINISH. FIELD VERIFY AND MATCH EXISTING BELLS VOLTAGE. INSTALL BELL AT MINIMUM 90 INCHES AFF FROM TOP OF BELL.
4. EXISTING FIRE ALARM CONTROL PANEL IS SIMPLEX 2001-3080.
5. PROVIDE NEW FIRE ALARM STROBE COMPATIBLE WITH EXISTING FIRE ALARM CONTROL PANEL LOCATED IN UTILITY ROOM. CONNECT TO EXISTING FIRE ALARM CIRCUIT SERVING ZONE OF AREA. MODIFY OR EXTEND EXISTING FIRE ALARM CIRCUIT AS REQUIRED. STROBE SHALL BE RED WITH CLEAR LENS WITH "FIRE" IN WHITE LETTERS. FIELD VERIFY AND MATCH EXISTING VOLTAGE OF EXISTING VISUAL NOTIFICATION DEVICES. INSTALL STROBE AT 90 INCHES AFF FROM TO OF DEVICE.
6. MOUNT AT 60 INCHES AFF TO MIDDLE OF RECEPTACLE.

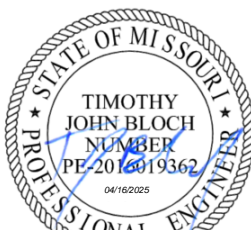
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GOVERNOR

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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000148



TIMOTHY J. BLOCH
PE-2016019362

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CONSTRUCTION

MISSOURI ARMY
NATIONAL GUARD

Latrines & Shower Renovations,
Building 233

St. Louis Lambert Readiness
Center

10800 Lambert International
Rd.
Bridgeon, MO 63044

PROJECT # T2417-01
SITE # 6280
ASSET # 81362800001

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

ISSUE DATE: 4-16-2025

CAD DWG FILE: _____

DRAWN BY: CMB

CHECKED BY: TJB

DESIGNED BY: CMB

SHEET TITLE:
ELECTRICAL PLAN -
MAIN LEVEL - NEW
WORK

SHEET NUMBER:

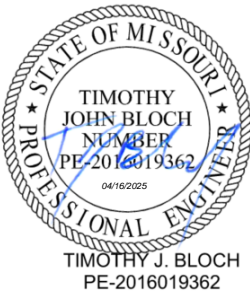
EP100

4-16-2025

SHEET 30 OF 31



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

SHEET TITLE:
ELECTRICAL ROOF
PLAN - NEW WORK

SHEET NUMBER:

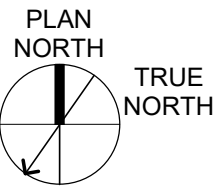
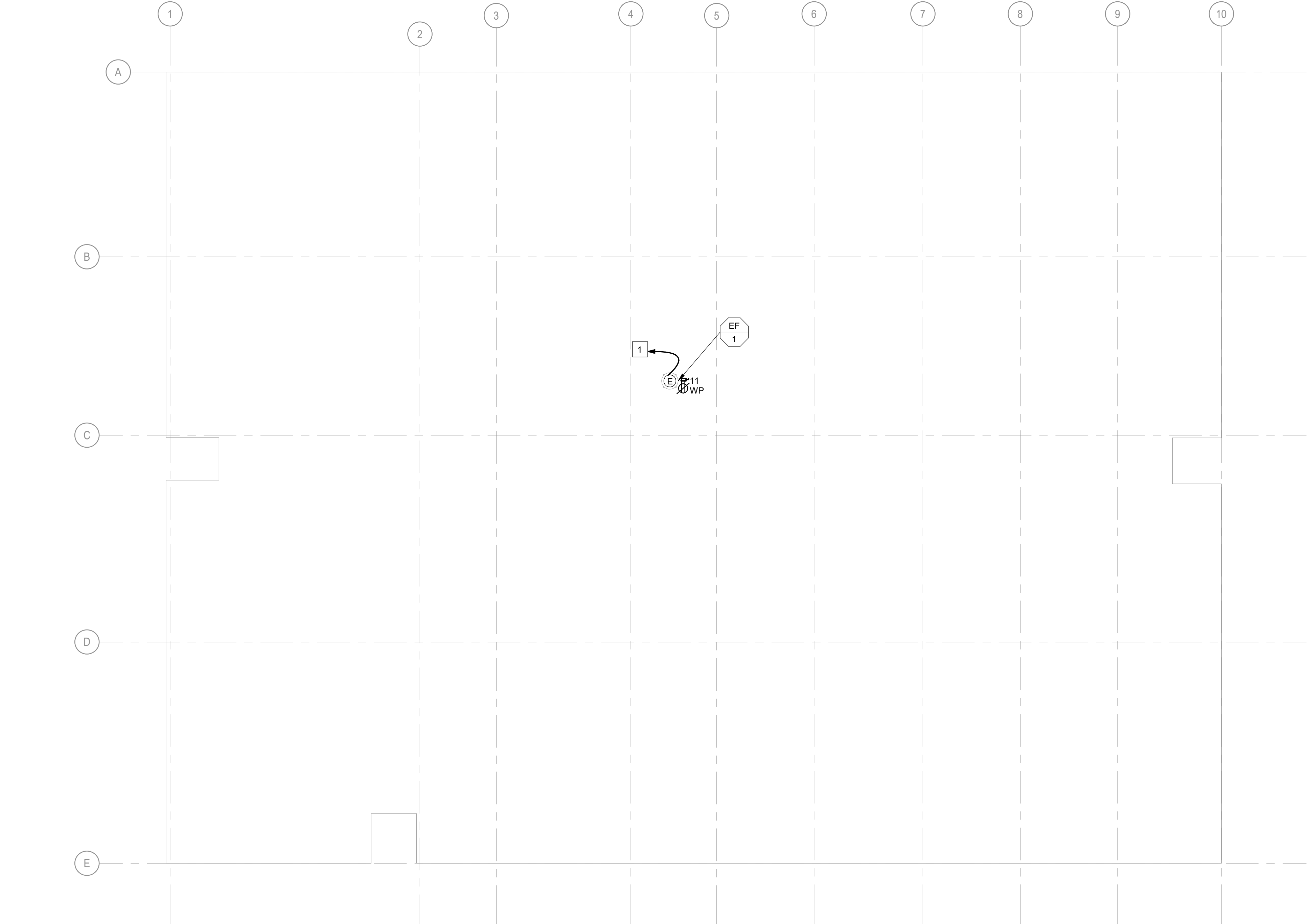
EP101

SHEET GENERAL NOTES

- INTENT OF CIRCUIT NUMBERS SHOWN IS TO IDENTIFY WHICH DEVICES AND EQUIPMENT ON THE SAME CIRCUIT AND DO NOT NECESSARILY CORRELATE TO POSITIONS IN PANELBOARDS OR SWITCHBOARDS. UNLESS OTHERWISE NOTED, PROVIDE 20A, 1-POLE CIRCUIT BREAKER FOR EACH CIRCUIT IDENTIFIED AND FEED FROM I-LINE DISTRIBUTION PANELBOARD IN AVAILABLE SPACE.
- UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUITS SHALL BE (2)#12 IN 3/4 INCH CONDUIT.

SHEET KEYNOTES

- PROVIDE DEDICATED 15A, 1-POLE CIRCUIT BREAKER IN AVAILABLE SPACE IN I-LINE DISTRIBUTION PANELBOARD.



1 ELECTRICAL ROOF PLAN - NEW WORK
1/8" = 1'-0"