

ADDITION & ALTERATIONS

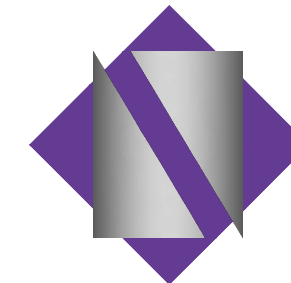
BURLINGTON COUNTY DEPARTMENT OF PUBLIC WORKS

10 HARTFORD ROAD, DELRAN TWP, NEW JERSEY 08075



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LOCATION MAP

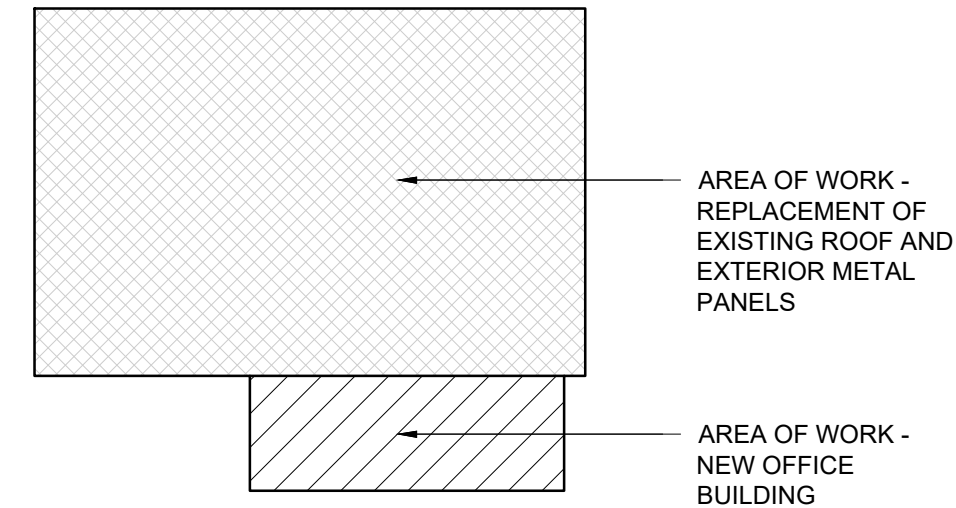
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DRAWING INDEX

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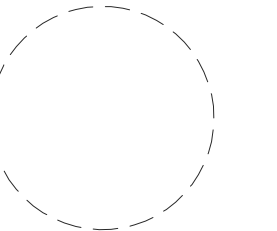


KEY PLAN

DEPT. OF PUBLIC WORKS BUILDING



NORTH



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PROJECT TITLE:
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 PUBLIC WORKS
 10 HARTFORD ROAD, DELRAN TWP.
 BURLINGTON CO. NJ**

SUBMISSION:
 2025.03.12 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

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 Drawn by: JT
 Checked by: LU
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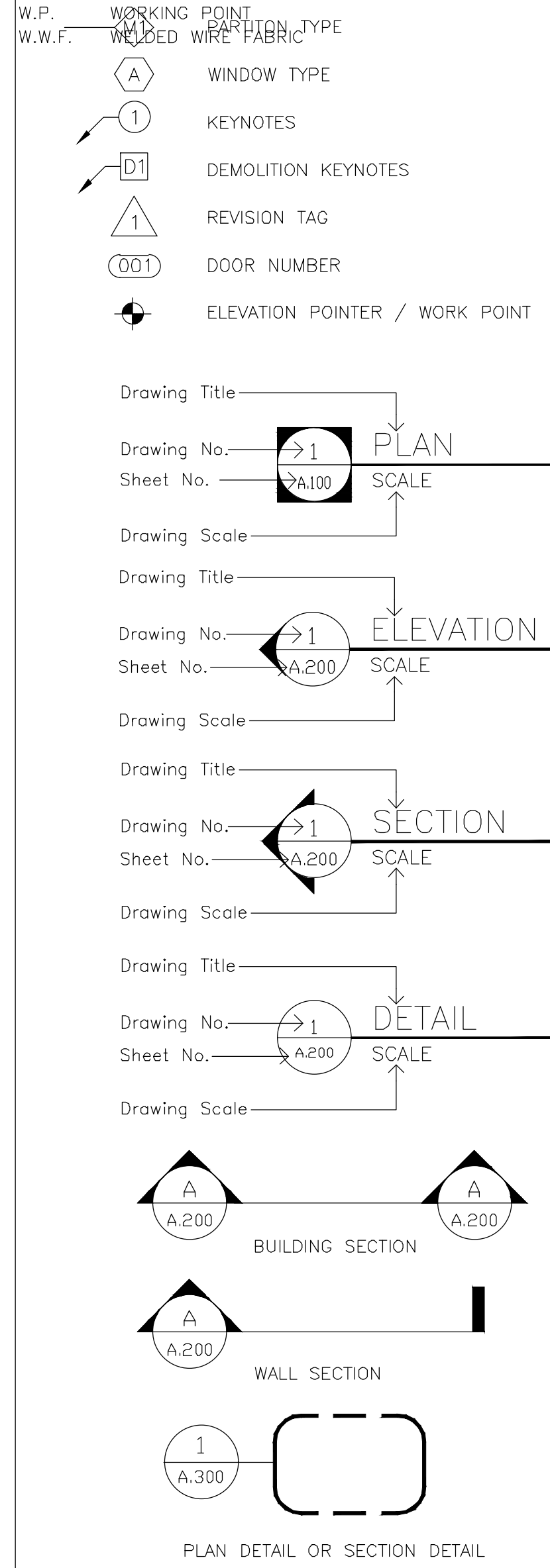
GENERAL NOTES

- ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE IN STRICT CONFORMANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE AND INTERNATIONAL BUILDING CODE OF NEW JERSEY AND ALL ITS SUB CODES, OSHA AND ADA REQUIREMENTS AND ANY OTHER LOCAL, REGIONAL OR FEDERAL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY EXISTING CONDITIONS AND REVIEW THESE CONDITIONS WITH THE PLANS BEFORE, DURING AND AFTER CONSTRUCTION, AND ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING IMMEDIATELY.
- ALL WALL THICKNESS ARE NOMINAL DIMENSIONS ONLY ROUNDED TO THE NEAREST WHOLE INCH, REFER TO WALL SECTIONS AND DETAILS FOR THEIR ACTUAL THICKNESS.
- ALL DIMENSIONS ARE FROM THE FACE OF MASONRY, FACE OF GYPSUM BOARD BOARD OR FROM THE COLUMN CENTER LINES UNLESS OTHERWISE NOTED.
- EXCEPT WHERE OTHERWISE INDICATED, ALL WALLS AND PARTITION ARE DIMENSIONED TO THEIR "NOMINAL" SIZES. WHERE DIMENSIONS ARE NOTED AS "MIN.", PROVIDE MIN. CLEAR TO FINISH SURFACES.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL PROPERLY IDENTIFY AND MARK-UP ALL EXISTING UTILITIES.
- DO NOT SCALE DRAWINGS.
- MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER EXECUTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
- REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS.
- WHERE PIPING IS TO BE CONCEALED, THE HUNG OR FURRED CEILING IN THIS AREAS ARE NOT TO BE INSTALLED UNTIL THOSE PIPES HAVE BEEN PROPERLY TESTED.
- INTERIOR PARTITIONS SHALL NOT BE BUILT TO FULL HEIGHT UNLESS ALL DUCTS, PIPES, ETC. ARE IN PLACE.
- ALL SPACES WITH FLOOR DRAIN (INCLUDING AREAWAYS) SHALL HAVE THEIR FLOORS PITCHED TO THOSE FLOOR DRAINS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- ALL ITEMS RECESSED INTO RATED PARTITIONS (SUCH AS OUTLET BOXES, PANEL BOXES, ETC) SHALL HAVE THOSE OPENINGS PROTECTED WITH BACK-UP MATERIALS SO AS TO RETAIN THE INTEGRITY OF THE PARTITION RATING THROUGHOUT.
- ALL STRUCTURAL STEEL LESS THAN 8" FROM EXTERIOR SHALL BE PROPERLY WATERPROOFED.
- EXCEPT AS OTHERWISE INDICATED, DOOR SADDLES OR DIVIDING STRIPS ARE REQUIRED AT INTERIOR DOOR OPENINGS WHERE DIFFERENT TYPES OF FLOOR FINISHES OCCUR IN IMMEDIATELY ADJOINING ROOMS. POSITION ON LINE OF CENTER DOOR WHEN DOOR IS CLOSED.
- THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINTELS, STRUTS, BRACKETS, HANGERS, ETC. WHEREVER NECESSARY TO SUPPORT OR BRACE ALL FINISHES, EQUIPMENT RECESSES, HEADS OVER OPENINGS, FURNITURE, ETC.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND ELECTRICAL CONDUITS PRIOR TO STARTING ANY EXCAVATION OPERATIONS. SHOULD ANY CONDUITS BE ENCOUNTERED WHICH WERE NOT KNOWN TO EXIST, THE CONTRACTOR SHALL STOP WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE ARCHITECT.
- SWEEPING, BRUSHING, AND OTHER GENERAL CLEANING OF COMPLETED WORK AND THE REMOVAL OF DEBRIS, SURPLUS MATERIALS, TOOLS NOT IN ACTIVE USE, SCAFFOLDING AND OTHER EQUIPMENT NO LONGER NEEDED SHALL BE CARRIED OUT ON AN ONGOING BASIS. IN ADDITION, REMOVE STAINS, SPOTS, MARKS, AND DIRT FROM FINISH WORK. THE JOB IS TO BE MAINTAINED FREE OF RUBBISH. DISPOSE OF ALL RUBBISH IN ACCORDANCE WITH LOCAL ORDINANCES.
- ALL HEIGHTS INDICATED ON REFLECTED CEILING PLANS ARE FROM TOP OF FINISHED FLOOR TO BOTTOM OF CEILING / FIXTURE SPECIFIED, U.O.N..
- THE CONTRACTOR SHALL FURNISH & INSTALL ALL CLIPS, ANGLES AND MISC. STEEL TO SECURE FRAMING TO STRUCTURE
- HINGE SIDE OF DOOR TO BE 4" FROM ADJACENT WALL OR AS OTHERWISE MENTIONED.
- MASONRY OPENING ARE NOMINAL DIMENSIONS, CONTRACTOR TO ALLOW CLEARANCE AT OPENING TO INSTALL WINDOW SYSTEM, DOOR SYTEM OR OTHER ITEMS INSTALLED IN MASONRY.
- ALL METAL FLASHING SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
- AT LOCATION WHERE SHELF ANGLES ARE INSTALLED, INSTALL STAINLESS STEEL FLASHING, WEEPHOLES AND MORTAR NET.
- ALL EXPOSED INTERIOR/EXTERIOR METAL ITEMS TO BE PRIMED AND PAINTED (INCLUDING GALVANIZED METALS) UNLESS OTHERWISE NOTED.
- ALL STEEL LINTELS TO BE GALVANIZED AND PAINTED INCLUDING ALL EXTRA STEELS SPECIFIED HEREIN.
- ALL EXPOSED CMU TO BE SPACKLED PRIMED AND PAINTED UNLESS OTHERWISE NOTED
- CLEANED & RECONDITIONED, ALL EXISTING LOCKERS AFTER WALL & FLOOR FINISHES ARE DONE.

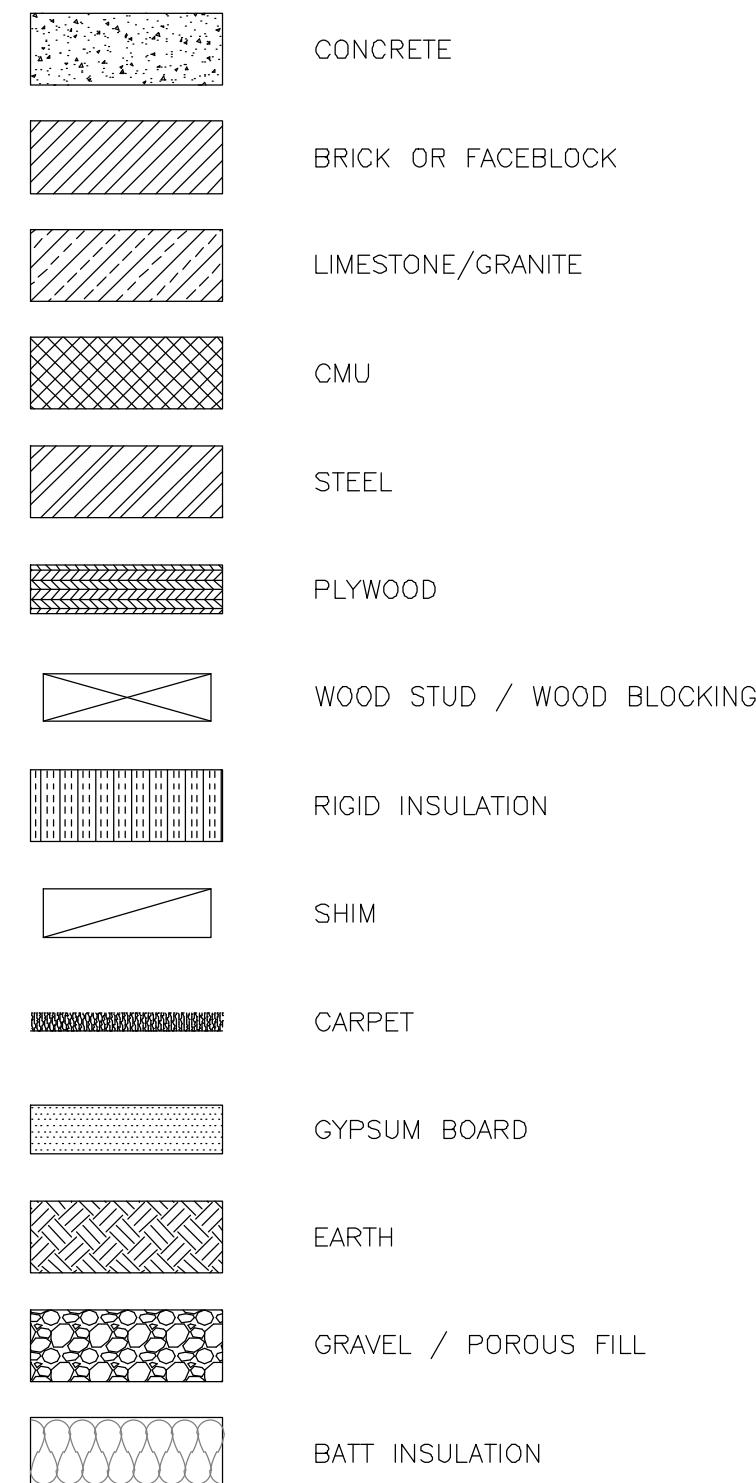
ABBREVIATIONS

ALUM.	ALUMINUM	MISC.	MISCELLANEOUS
A.F.F.	ABOVE FINISH FLOOR	M.O.	MASONRY OPENING
ALT.	ALTERNATE	MLDG.	MOLDING
APPROX.	APPROXIMATE	M.O.H.	MIRROR OPPOSITE
ARCH.	ARCHITECT	MTD.	MOUNTED
ARCH'L.	ARCHITECTURAL	MTL	METAL
		MFD.	METAL FLOOR DECK
BD.	BOARD	MDF.	MEDIUM DENSITY FIBERBOARD
BLDG.	BUILDING	MRD.	METAL ROOF DECK
BOT.	BOTTOM	MULL.	MULLION
		N	NORTH
C.J.	CONTROL JOINT	NAT.	NATURAL
CL.G.	CEILING	N.I.C.	NOT IN CONTRACT
CJ	CONDENSING UNIT	NO.	NUMBER
C.L.O.	CLOSET	N.T.S.	NOT TO SCALE
C.T.	CERAMIC TILE		
COL	COLUMN	O.A.	OVERALL
C.M.U.	CONCRETE MASONRY UNIT	O.A.I.	OUTSIDE AIR INTAKE
CONC.	CONCRETE	O.C.	ON CENTER
CONST.	CONSTRUCTION	OPNG.	OPENING
CONT.	CONTINUOUS	OPP.	OPPOSITE
		ORIG.	ORIGINAL
DET.	DETAIL	O.H.	OVERHEAD
DIA.	DIAMETER	O.D.	OVERFLOW DRAIN
DIM.	DIMENSION		
DN.	DOWN	PART.	PARTITION
DR.	DOOR	PTN.	PARTITION
DWG.	DRAWING	PASS.	PASSENGER
		PLAS.	PLASTIC
EA.	EACH	PL. LAM.	PLASTIC LAMINATE
ELEC.	ELECTRIC	PL.	PLATE
ELECT'L.	ELECTRICAL	PLYWD.	PLYWOOD
ENCL.	ENCLOSURE	PANL.	PANEL
EL.	ELEVATION	PR.	PAIR
ELEV.	ELEVATOR	PTD.	PAINTED
EQUIP.	EQUIPMENT	P.V.C.	POLYVINYL CHLORIDE
EQ.	EQUAL	P.S.I.	POUNDS PER SQUARE INCH
E.W.C.	ELECTRIC WATER COOLER	P.S.F.	POUNDS PER SQUARE FOOT
EXIST.	EXISTING		
E.T.R.	EXISTING TO REMAIN	R.	RISER
EXP.	EXPANSION	RAD.	RADIUS
EXT.	EXTERIOR	RB	RUBBER BASE
E.J.	EXPANSION JOINT	RCP	REFLECTED CEILING PLAN
E.O.S.	EDGE OF SLAB	R.D.	ROOF DRAIN
E.M.R.	ELEVATOR MACHINE ROOM	RE.	REFERENCE
		REF.	REFRIGERATOR
F.D.	FLOOR DRAIN	REFL.	REFLECTED
F.E.	FREIGHT ELEVATOR	REQ'D.	REQUIRED
FDN.	FOUNDATION	REINF.	REINFORCING
FIN.	FINISH	REV.	REVISION
FL.	FLOOR	R.H.	RIGHT HAND
FLR.	FLOOR	RM.	ROOM
FLUOR.	FLUORESCENT	R.O.	ROUGH OPENING
FT.	FOOT / FEET	R.O.D.	ROOF OVERFLOW DRAIN
FTG.	FOOTING		
F.R.T.	FIRE RETARDANT TREATED		
		SECT.	SECTION
GA.	GAUGE	SHO.	SHOWER
GALV.	GALVANIZED	SIM.	SIMILAR
GL.	GLASS	SK	SKETCH
GWB	GYPSUM WALL BOARD	SPECS.	SPECIFICATIONS
GYP. BD.	GYPSUM BOARD	SQ.	SQUARE
		S/STL.	STAINLESS STEEL
H.C.	HANDICAPPED	STL.	STEEL
HWDR.	HARDWARE	STD.	STANDARD
HWWD.	HARDWOOD	STRUCT.	STRUCTURE
H.M.	HOLLOW METAL	STRUCT'L	STRUCTURAL
H.P.	HIGH POINT	SUSP.	SUSPENDED
HT.	HEIGHT		
H.V.A.C.	HEATING, VENTILATION, & AIR CONDITIONING	T/	TOP OF
		T.O.	TOP OF
HORIZ.	HORIZONTAL	TEL.	TELEPHONE
HR.	HOUR	TERR.	TERRAZZO
		TRANS.	TRANSFORMER
I.D.	INSIDE DIAMETER	TYP.	TYPICAL
IN.	INCH / INCHES	TBD.	TO BE DETERMINED
INCL.	INCLUDING		
INFO.	INFORMATION	U.L.	UNDERWRITER'S LABORATORY UNFINISHED
INSUL.	INSULATION	U.O.N.	UNLESS OTHERWISE NOTED
INV.	INVERT	UTIL.	UTILITY
JT.	JOINT		
		V.B.	VINYL BASE
LAM.	LAMINATE	V.C.T.	VINYL COMPOSITION TILE
LAV.	LAVATORY	VERT.	VERTICAL
LG.	LONG	VEST.	VESTIBULE
L.P.	LOW POINT	V.I.F.	VERIFY IN FIELD
LT.	LIGHT	VOL.	VOLUME
LT. WT.	LIGHT WEIGHT	VTR	VENT THRU ROOF
		W/	WITH
MACH.	MACHINE	W.C.	WATER CLOSET
M.H.	MANHOLE	WDW.	WINDOW
MAT'L	MATERIAL	W.F.	WIDE FLANGE
MAX.	MAXIMUM	W.O.	WINDOW OPENING
MECH.	MECHANICAL		
MEMB.	MEMBRANE		
MIN.	MINIMUM		
MIR.	MIRROR		

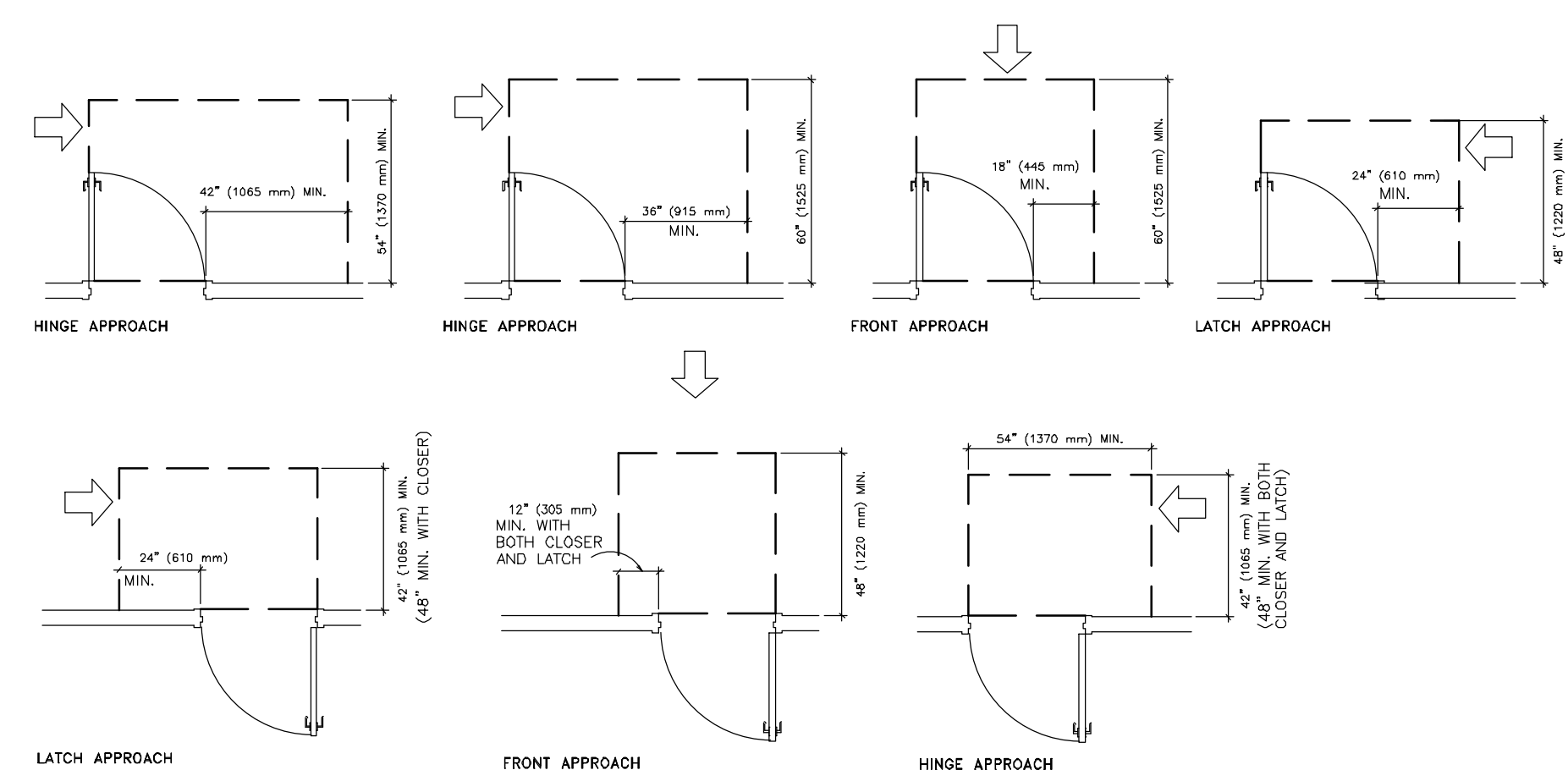
SYMBOLS



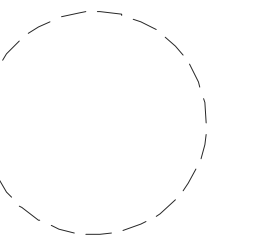
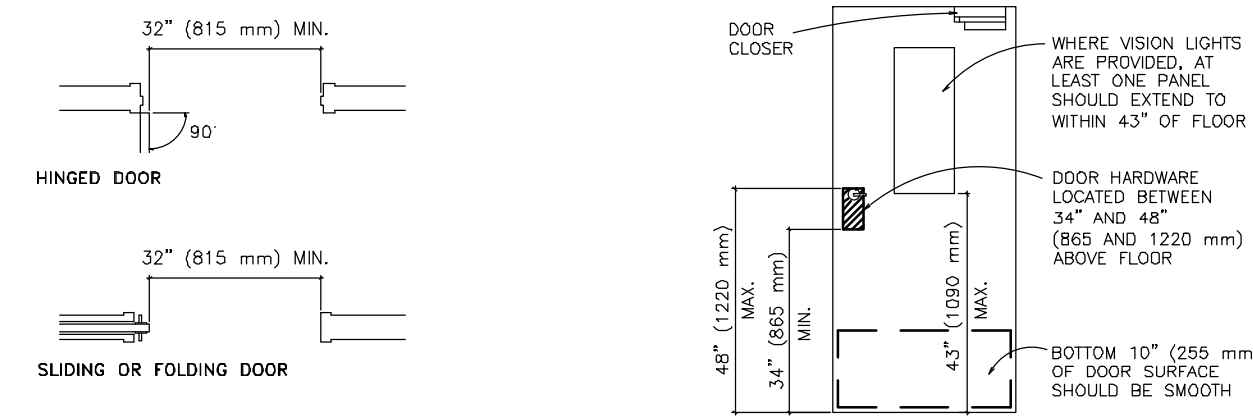
MATERIALS LEGEND



ACCESSIBLE CLEARANCES AT SWINGING DOORS



CLEAR WIDTH OF ACCESSIBLE DOORWAYS



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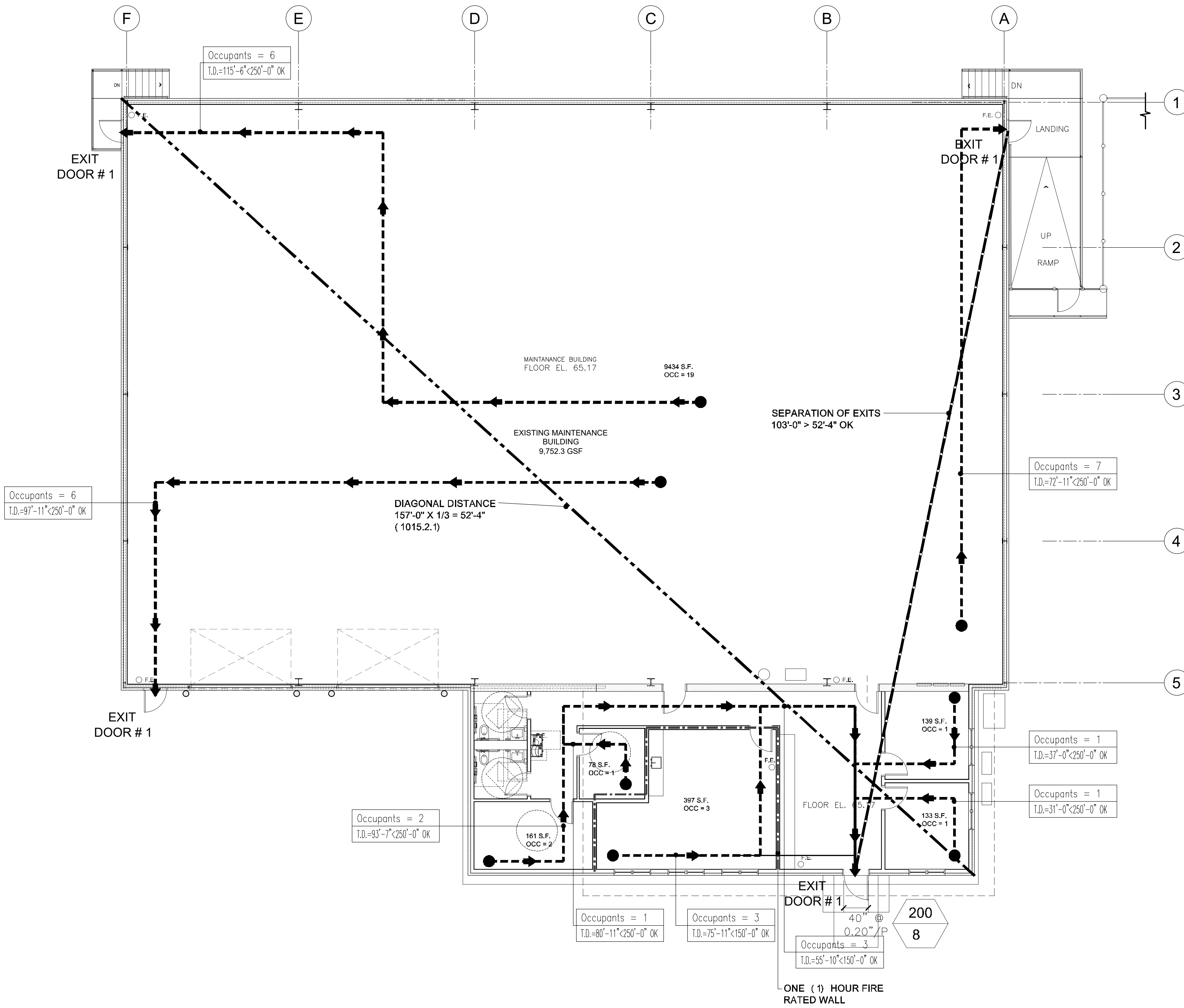
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DATE	REVISIONS	BY	CHKD

Date 04.09.24
Scale AS SHOWN
Drawn by JT
Checked by LU
Job No. 2241869
Drawing No.

A-002



A FIRST FLOOR EGRESS PLAN
 A-003 SCALE: 1/8"=1'-0"

LEGEND

- TD = X' - X" TRAVEL DISTANCE
- EGRESS PATH
- 1-HOUR RATED WALL
- DIAGONAL DISTANCE
- SEPARATION OF EXITS
- EGRESS CAPACITY (OCCUPANTS) ACTUAL
EGRESS OCCUPANTS
- F.E. WALL MOUNTED FIRE EXTINGUISHER
- F.E. RECESSED FIRE EXTINGUISHER CABINET
- PROVIDE 1 HOUR FIRE RATED SPRAY APPLIED FIREPROOFING (SFRM) FLOOR ASSEMBLY - REFER TO FLOOR CONSTRUCTION TYPE FL-2 ON DWG A-301

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DATE	REVISIONS	BY	CHKD

Date 04.09.24
 Scale AS SHOWN
 Drawn by JT
 Checked by LU
 Job No. 2241869
 Drawing No.

SPACES WITH ONE EXIT (TABLE 1006.2.1)
OCCUPANCY MAXIMUM OCCUPANT LOAD
GROUP B 49
MAX. COMMON PATH OF EGRESS W/O SPRINKLER = 75'
GROUP S-1 29
MAX. COMMON PATH OF EGRESS W/O SPRINKLER = 100'

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)
OCCUPANCY WITHOUT SPRINKLER SYSTEM WITH SPRINKLER SYSTEM IBC REFERENCE
GROUP B 200' 300' TABLE 1017.2
GROUP S 300' 400' TABLE 1017.2

CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.2)
OCCUPANCY OCCUPANT LOAD SERVICED BY CORRIDOR REQUIRED FIRE-RESISTANCE RATING (SPRINKLERED SYSTEM)
GROUP B GREATER THAN 30 0-HOUR
GROUP S GREATER THAN 30 0-HOUR
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CONSTRUCTION 1023.2 INTERIOR EXIT STAIRS SHALL BE CONSTRUCTED AS FIRE BARRIERS (SECTION 707) & HORIZ. ASSEMBLIES (SECTION 711) WITH A 1 HR FIRE RATING. IBC REFERENCE SECTION 1023.2

SOUND TRANSMISSION (SECTION 1206)
SOUND TRANSMISSION CLASS (STC) REQUIREMENT ACTUAL SECTION
IMPACT INSULATION CLASS (IIC) SEPARATING WALLS: DWELLING UNIT/DWELLING UNIT DWELLING UNIT/CORRIDOR FLOOR/CEILING ASSEMBLIES 1207
50 50 50 1207.2
50 50 50 1207.3

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES TABLE 7.21.1 NATIONAL STANDARD PLUMBING CODE 2021)
USE GROUP NUMBER OF PERSONS OF EACH SEX WATER CLOSETS (URINALS) LAVATORIES DRINKING WATER FACILITIES SAFETY SHOWER OTHER SERVICE SINK PER FLOOR
FOR FIRST FLOOR LEVEL

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES TABLE 7.21.1 NATIONAL STANDARD PLUMBING CODE 2021)
BUSINESS REQUIRED NUMBER OF PLUMBING FIXTURES PER OCCUPANTS
1-15 OCCS 1 1 1 1 1 1 1 1 1 1 1 PER 100 OCC. 0 0 0 0 1 SERVICE SINK PER FLOOR
16-50 OCCS +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 PER 100 OCC. 0 0 0 0 1 SERVICE SINK PER FLOOR
EA. ADD'L 50 OVER 100 OCCS +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 PER 100 OCC. 0 1 0 0 1 SERVICE SINK PER FLOOR

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES TABLE 7.21.1 NATIONAL STANDARD PLUMBING CODE 2021)
STORAGE (S-1 & S-2) REQUIRED NUMBER OF PLUMBING FIXTURES PER OCCUPANTS
50 OR LESS OCCS 1 1 1 1 1 1 1 1 1 1 1 PER 500 OCC. 0 0 0 0 1 PROVIDED 1ST FLR
51-100 OCCS +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 PER 500 OCC. 0 0 0 0 1 PROVIDED 1ST FLR
EA. ADD'L 100 OVER 100 OCCS +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 PER 500 OCC. 0 0 0 0 1 PROVIDED 1ST FLR

MIN. NUMBER OF EXITS PER STORY (TABLE 1006.3.3)
OCCUPANT LOAD MIN. NUMBER OF EXITS IBC REFERENCE
1-500 2 TABLE 1006.3.3
501-1,000 3
MORE THAN 1,000 4

PERCENTAGE OF MAXIMUM ALLOWABLE QUANTITIES (TABLE 414.2.2)
STORY PERCENTAGE OF MAX. ALLOWABLE QUANTITY PER CONTROL AREA NUMBER OF CONTROL AREAS PER STORY FIRE-RESISTANCE RATING FOR FIRE BARRIERS IN HOURS
ABOVE GRADE PLANE 1 100

FIRE RESISTANT RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)
CONSTRUCTION CLASSIFICATION II-B
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NON-BEARING WALLS & PARTITION EXTERIOR TABLE 602 INTERIOR 0-HR 1-HR* TABLE 601
NON-BEARING WALLS & PARTITION EXTERIOR TABLE 602 INTERIOR 0-HR 1-HR* TABLE 601
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ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS 0-HR 0-HR TABLE 601
* EXCEPT PER OTHER SECTIONS OF CODE

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705 EXTERIOR WALLS PER TABLE 602 PER TABLE 601
706 FIRE WALLS 2-HR (BASED ON TYPE II CONSTRUCTION) (TABLE 706.4) N/A
707 FIRE BARRIERS 2-HR (TABLE 707.3.10) N/A
708 FIRE PARTITIONS 0-HR MIN. WHEN APPLICABLE 0-HR, BASED ON TABLE 1020.2, SPRINKLERED
709 SMOKE BARRIERS CORRIDOR WALLS PER TABLE 1020.1, 0-HR, A-3 & B USES 0-HR
710 SMOKE PARTITIONS 1-HR N/A
711 HORIZONTAL ASSEMBLIES PER CONSTRUCTION TYPE TABLE 601 PER TABLE 601
713 SHAFT ENCLOSURES CONNECT 4+ STORIES = 2-HR CONNECT LESS THAN 4 STORIES = 1-HR 1-HR

OPENING FIRE PROTECTION RATINGS TABLE 716.1 (2)
TYPE OF ASSEMBLY REQUIRED ASSEMBLY RATING MIN. FIRE DOOR AND FIRE SHUTTER RATING DOOR VISION PANEL SIZE
FIRE WALLS AND FIRE BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING GREATER THAN ONE-HOUR 4-HR 3-HR 3-HR SEE NOTE b SEE NOTE b SEE NOTE b 100 SQ. IN. 100 SQ. IN.
1 1/2-HR 1 1/2-HR 1 1/2-HR
ENCLOSURE FOR SHAFTS, INTERIOR EXIT STAIRWAYS AND INTERIOR EXIT RAMPS 2-HR 1-1/2-HR 100 SQ. IN.
HORIZONTAL EXITS IN FIRE WALLS 4-HR 3-HR 3-HR 100 SQ. IN.
3-HR 3-HR 3-HR
FIRE BARRIERS HAVING A REQUIRED FIRE RESISTANCE RATING OF ONE-HOUR; SHAFTS, EXIT ENCLOSURES AND EXIT PASSAGEWAY WALLS: OTHER FIRE BARRIERS: 1-HR 1-HR 1-HR 100 SQ. IN. MAXIMUM SIZE TESTED
1-HR 1-HR 3/4-HR
FIRE PARTITIONS CORRIDOR WALLS: OTHER FIRE PARTITIONS: * ONLY WHERE INDICATED 1-HR 0.5-HR 1/3-HR MAXIMUM SIZE TESTED
0.5-HR 1/3-HR 3/4-HR
EXTERIOR WALLS 3-HR 1 1/2-HR 100 SQ. IN. MAXIMUM SIZE TESTED
2-HR 1 1/2-HR 3/4-HR
1-HR 3/4-HR
SMOKE BARRIERS 1-HR 1/3-HR MAXIMUM SIZE TESTED

FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS (TABLE 716.1 (3))
TYPE OF ASSEMBLY REQUIRED ASSEMBLY RATING MIN. FIRE WINDOW ASSEMBLY RATING
FIRE WALLS ALL NOT PERMITTED UNLESS COMPLIES WITH EXCEPTION A
FIRE BARRIERS >1-HR 1-HR NOT PERMITTED, UNLESS COMPLIES WITH EXCEPTION A
1-HR
SMOKE BARRIERS 1-HR 3/4-HR
FIRE PARTITIONS 1-HR 3/4-HR 1/3-HR
0.5-HR
EXTERIOR WALLS >1-HR 1 1/2 -HR 3/4-HR 1/3-HR
1-HR 0.5-HR
PARTY WALL ALL NOT PERMITTED

MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS (TABLE 307.1)
MATERIAL CLASS GROUP WHEN MAX. ALLOWABLE QUANTITY IS EXCEEDED STORAGE USE CLOSED SYSTEMS USE OPEN SYSTEMS
FLAMMABLE LIQUID 1B AND 1C (ACETIC ACID, ACETONE, ETHANOL) H-2 OR H-3 NA 10 ≤ 30 NA NA 1 ≤ 30 NA NA
OXIDIZER (POTASSIUM PERMANGANATE) H-2 OR H-3 1 ≤ 10 1 ≤ 10 NA .5 ≤ 2 NA .5 ≤ 2 NA

DOORS, GATES & TURNSTILES (SECTION 1010)
ALLOWABLE ACTUAL IBC REFERENCE
SIZE OF DOORS MIN. 32" WIDE MAX. 48" WIDE 3'-0" WIDE MIN. DOORS 1010.1.1
PROJECTION INTO SPACE 4" MAX FOR PROJECTIONS BETWEEN WITH OF 34" WX80" H LESS THAN 4" PROJECTION 1010.1.1.1
DOOR SWING SIDE HINGE OR EXCEPTION DIRECTION OF EGRESS > 50 PERSONS SIDE HINGE 1010.1.2.1
REVOLVING DOORS SEE IBCNJ FOR FURTHER INFO. N/A 1010.3.1
POWER OPERATED SEE IBCNJ FOR FURTHER INFO. N/A 1010.3.2
HORIZONTAL SLIDING SEE IBCNJ FOR FURTHER INFO. WILL COMPLY 1010.3.3
ACCESS CONTROLLED SEE IBCNJ FOR FURTHER INFO. N/A 1010.2.11
SECURITY GRILLES SEE IBCNJ FOR FURTHER INFO. N/A 1010.3.4
FLOOR ELEVATIONS SAME ELEVATION AT BOTH SIDES OF DOOR OR EXCEPTION 1010.1.4
DOOR LANDINGS LENGTH MIN. 44", DOOR OPEN MAX 7" ONTO LANDING, OR EXCEPTIONS 1010.1.5
THRESHOLDS .5" MAX . HT. OR EXCEPTIONS 1010.1.6
DOOR ARRANGEMENTS 48" MIN. BETWEEN DOORS PLUS DOOR SWING OR EXCEPTIONS 1010.1.7
DOOR OPERATIONS READILY OPENABLE WITHOUT USE OF KEY OR EFFORT, OR EXCEPTION 1010.2
PANIC HARDWARE SEE IBCNJ FOR FURTHER INFO. AT EXIT DOORS ENTRANCE 1010.2.9

RAMPS (SECTION 1012)
SLOPE REQUIREMENT SECTION
ADA- 1/12 PEDESTRIAN - 1/8 1012.2
CROSS SLOPE 1/48 1012.3
VERTICAL RISE 30" MAX 1012.4
MINIMUM DIM WIDTH - NOT LESS THAN CORRIDOR REQUIREMENTS, 36" MIN. 1012.5.1
HEADROOM - MIN. 80" 1012.5.2
RESTRICTION-PROJECTIONS PROHIBITED DOOR OPENING -MIN. LANDING 42" 1012.5.3
LANDINGS SLOPE-NOT GREATER THAN 1/48 1012.6.1
WIDTH-MIN AS RAMP 1012.6.2
LENGTH-60" MIN OR EXCEPTION 1012.6.3
RAMP CONSTRUCTION NON-SLIP, OUTDOORS-SHALL NOT ACCUMULATE WATER 1012.7
HANDRAILS RISE > 6" - BOTH SIDES 1012.8
EDGE PROTECTION CURB, RAIL, WALL- PREVENT 4" DIA. SPHERE OR EXCEPTION 1012.10
GUARDS ACCORDANCE W/ SECTION 1015 1012.09

HANDRAILS (SECTION 1014)
REQUIREMENT SECTION
WHERE REQUIRED RAMPS & STAIRS -SECTION 1607.8, 1011.11 1012.8, 1014.2 THRU 1014.9 1014.1
HEIGHT ABOVE nosing- NOT LESS THAN 34" NOT GREATER THAN 38" OR EXCEPTION 1014.2
GRASPABILITY DIA. MIN 1.25" & MAX 2" OR EXCEPTION 1014.3
CONTINUITY CONTINUOUS W/O INTERRUPTION OR EXCEPTION 1014.4
EXTENTIONS TOP RISER & BOTTOM RISER EXTEND 12" AS WELL AS 12" AT RAMPS 1014.6
CLEARANCE MIN. 1.5" 1014.7
PROJECTIONS NOT MORE THAN 4.5" INTO REQUIRED WIDTH 1014.8
INTERMEDIATE WITHIN 30" 1014.9

GUARDS (SECTION 1015)
REQUIREMENT SECTION
WHERE REQUIRED LANDINGS, STAIRWAYS WALKING SURFACE ETC... > 30" OR EXCEPTION 1015.2
HEIGHT 42" OR EXCEPTIONS 1015.3
OPENESS LIMITATION 4" SPHERE TO 34" & 8" SPHERE FROM 34" TO 42" OR EXCEPTIONS 1015.4
ROOF MECH. EQUIP. 10' FROM ROOF EDGE & EXTEND 30" PAST EQUIP. OPENESS -21" SPHERE 1015.6
ROOF HATCH 10' FROM ROOF EDGE >30" & EXTEND NO LESS THAN 30" PAST HATCH ENDING. OPENING PREVENT PASSAGE OF 21" SPHERE 1015.7
1015.8

PORTABLE FIRE EXTINGUISHERS (SECTION 906)
ORDINARY (MODERATE) HAZARD OCCUPANCY
DISCRPTION TOTAL EXTINGUISHERS
WALL MOUNTED 7

BUILDING CODE INFORMATION
PROJECT NAME: ADDITIONS AND ALTERATIONS BURLINGTON COUNTY MOSQUITO CONTROL BUILDING
LOCATION: 10 HARTFORD ROAD, DELRAN TWP, BURLINGTON, NJ
LOT & BLOCK NO.: BLOCK 83, LOTS 11 & 12A
ZONE: C-2 (GENERAL COMMERCIAL)
THE PRIMARY CODE REFERENCE WILL BE THE NEW JERSEY UNIFORM CONSTRUCTION CODE (N.J.A.C. 5:23 ET SEQ). THE UNIFORM CONSTRUCTION CODE ADOPTS SEVERAL MODEL CODES THAT ARE REFERENCED AS SUBCODES. THESE SUBCODES ARE AN INTEGRAL PART OF THE UNIFORM CONSTRUCTION CODE AND ARE AS FOLLOWS:
SUBCODE NATIONAL MODEL CODE UCC REFERENCE
BUILDING INTERNATIONAL BUILDING CODE 2021 NJ Edition N.J.A.C. 5:23-3.14
ACCESSIBILITY ANSI-A117.1 - 2017 N.J.A.C. 5:23-7
PLUMBING NATIONAL STANDARD PLUMBING CODE 2021, NJ Edition N.J.A.C. 5:23-3.15
ELECTRICAL NATIONAL ELECTRICAL CODE (NFPA 70) 2020 N.J.A.C. 5:23-3.16
ENERGY INTERNATIONAL ENERGY CONSERVATION CODE / 2021 N.J.A.C. 5:23-3.18
MECHANICAL INTERNATIONAL MECHANICAL CODE / 2021 N.J.A.C. 5:23-3.20

GENERAL BUILDING INFORMATION
CRITERION / DESIGNATION IBC REFERENCE
USE AND OCCUPANCY CLASSIFICATION GROUP B - BUSINESS GROUP GROUP S-1 - MODERATE HAZARD STORAGE (VEHICLE REPAIR GARAGE) SEC. 304, & 311.2
CONSTRUCTION CLASSIFICATION II-B TABLES 504.3, 504.4, 506.2 & 601
FIRE SUPPRESSION YES SEC. 903.2.1.3

GENERAL BUILDING HEIGHTS & AREAS
ALLOWABLE BUILDING HEIGHT AND AREA (CHAPTER 5)
GROUPS: B - BUSINESS S-1 - MODERATE HAZARD STORAGE CONSTRUCTION TYPE: II-B
OVERALL ACTUAL BUILDING INFORMATION:
STORIES: 1-STORY
HEIGHT: 27'-7.5" ± HIGH TO TOP OF PARAPET WALL
RENOVATION AREAS:
FIRST FLOOR LEVEL RENOV.: 11,549 S.F.
TOTAL AREA: 11,549 S.F.

GROUP B - BUSINESS CONSTRUCTION TYPE: II-B
ALLOWABLE HEIGHT: 75' H SPRINKLERED (TABLE 504.3)
ALLOWABLE STORIES: 4-STORIES (TABLE 504.4)
ALLOWABLE AREA = 14,500 S.F. (GROUP B - "NS" TABLE 506.2) (WITHOUT THE ADDITION OF AN ALLOWABLE FRONTAGE INCREASE, SEE BELOW)
GROUP S-1 - MODERATE HAZARD STORAGE CONSTRUCTION TYPE: II-B
ALLOWABLE HEIGHT: 75' (TABLE 504.3)
ALLOWABLE STORIES: 4-STORIES (TABLE 504.4)
ALLOWABLE AREA = 17,500 S.F. (GROUP S-1 - "NS" TABLE 506.2)

SEPARATED USES ALLOWABLE AREAS
X USE GROUP ACTUAL AREA
X USE GROUP ALLOWABLE AREA
PROVIDED: B 1,797 SF S-1 9,752 SF
ALLOWED: B 92,000 SF S-1 70,000 SF
SUBMISSION:
2025.03.12 - ISSUED FOR BID

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)
GROUP EXIT ENCLOSURES AND EXIT PASSAGEWAYS CORRIDORS ROOMS AND ENCLOSED SPACE
B B C C
S C C C

REQUIRED SEPARATION OF OCCUPANCIES (TABLE 508.4)
OCCUPANCY REQUIRED RATING ACTUAL IBC REFERENCE
B NO SEPARATION REQUIRED 1-HR TABLE 508.4
B/S-1 NO SEPARATION REQUIRED 1-HR TABLE 508.4

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NEW JERSEY FLORIDA NEW YORK
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CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

BUILDING CODE INFORMATION
PROJECT TITLE:

ADDITIONS AND ALTERATIONS BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD, DELRAN TWP, BURLINGTON CO. NJ

DATE REVISIONS BY CHKD

Date 04.09.24
Scale AS SHOWN
Drawn by JT
Checked by LU
Job No. 2241869
Drawing No.

A-004

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information
 Energy Code: 2021 IECC
 Project Title: Warehouse Building
 Location: Burlington, New Jersey
 Climate Zone: 4a
 Project Type: Addition
 Vertical Glazing / Wall Area: 6%
 All Electric: false
 Is Renewable: false
 Has Battery: false
 Has Charger: false
 Has Heat Pump: true

Construction Site: 10 Hartford Road, Delran, New Jersey 08075
 Owner/Agent: Burlington County Department of Public Works, 10 Hartford Road, Delran Township, New Jersey 08075
 Designer/Contractor: Larry Uher, Netta Architects, 1084 West Route 22, Mountainside, New Jersey 07092, 973-379-0006, luh@nettaarchitects.com

Efficiency Packages Description	Credit
Building Area	Floor Area
1-Office (Office) : Nonresidential	1800

Envelope Assemblies	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Roof, [Bldg. Use 1 - Office]	1800	---	33.5	0.029	0.032
Floor: Floor, Vertical 3 ft., [Bldg. Use 1 - Office] (c)	153	---	10.0	0.510	0.520
NORTH Entrance Wall: Entrance Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office]	890	19.0	23.0	0.034	0.052
Door: Swinging, [Bldg. Use 1 - Office]	21	---	---	0.360	0.370
Lab Window 1 of 3 1-, Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Lab Window 1 of 3 1-, Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
Lab Window 1 of 3 2-, Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
Office 01 Window -, Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
EAST East Wall: East Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office]	380	19.0	23.0	0.034	0.052
WEST West Wall: West Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office]	380	19.0	23.0	0.034	0.052
Office 02 Window 1-, Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
Office 01 Window 2-, Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
 (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 13% better than code

Envelope Compliance Statement
 Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2021 IECC
 Project Title: Warehouse Building
 Project Type: Addition
 Construction Site: 10 Hartford Road, Delran, New Jersey 08075
 Owner/Agent: Burlington County Department of Public Works, 10 Hartford Road, Delran Township, New Jersey 08075
 Designer/Contractor: Larry Uher, Netta Architects, 1084 West Route 22, Mountainside, New Jersey 07092, 973-379-0006, luh@nettaarchitects.com

Efficiency Packages Description	Credit		
Allowed Interior Lighting Power			
A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Lab (Common Space Types:Laboratory For Medical/Industrial/Research)	365	1.33	525
2-Lobby & Hallway (Common Space Types:Lobby - General)	552	0.84	464
3-Office - 01 (Common Space Types:Office - Enclosed)	133	0.74	98
4-Office - 02 (Common Space Types:Office - Enclosed)	133	0.74	98
5-Men Locker Rm (Common Space Types:Locker Room)	156	0.52	81
6-Women Locker Rm (Common Space Types:Locker Room)	81	0.52	42
7-Unisex Bathrm 104 (Common Space Types:Restrooms)	48	0.63	30
8-Unisex Bathrm 105 (Common Space Types:Restrooms)	48	0.63	30
Total Allowed Watts = 1370			

Proposed Interior Lighting Power	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Lab (Common Space Types:Laboratory For Medical/Industrial/Research)				
2x4: 2x4: LED:	0	7	33	233
2-Lobby & Hallway (Common Space Types:Lobby - General)				
2x4: 2x4: LED:	0	6	33	200
2x2: 2x2: LED:	0	5	23	117
3-Office - 01 (Common Space Types:Office - Enclosed)				
2x4: 2x4: LED:	0	2	33	67
4-Office - 02 (Common Space Types:Office - Enclosed)				
2x2: 2x2: LED:	0	4	23	93
5-Men Locker Rm (Common Space Types:Locker Room)				

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
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Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
2x4: 2x4: LED:	0	2	33	67
6-Women Locker Rm (Common Space Types:Locker Room)				
2x4: 2x4: LED:	0	1	33	33
7-Unisex Bathrm 104 (Common Space Types:Restrooms)				
2x4: 2x4: LED:	0	1	33	33
8-Unisex Bathrm 105 (Common Space Types:Restrooms)				
2x4: 2x4: LED:	0	1	33	33
Total Proposed Watts = 876				

Proposed Interior Lighting Controls	Fixture	Lighting Control
1-Lab (Common Space Types:Laboratory For Medical/Industrial/Research)	2x4: 2x4: LED:	Occupancy Sensor, Manual Control
2-Lobby & Hallway (Common Space Types:Lobby - General)	2x4: 2x4: LED: 2x2: 2x2: LED:	Occupancy Sensor, Manual Control
3-Office - 01 (Common Space Types:Office - Enclosed)	2x4: 2x4: LED:	Occupancy Sensor, Manual Control
4-Office - 02 (Common Space Types:Office - Enclosed)	2x2: 2x2: LED:	Occupancy Sensor, Manual Control
5-Men Locker Rm (Common Space Types:Locker Room)	2x4: 2x4: LED:	Occupancy Sensor, Manual Control
6-Women Locker Rm (Common Space Types:Locker Room)	2x4: 2x4: LED:	Occupancy Sensor, Manual Control
7-Unisex Bathrm 104 (Common Space Types:Restrooms)	2x4: 2x4: LED:	Occupancy Sensor, Manual Control
8-Unisex Bathrm 105 (Common Space Types:Restrooms)	2x4: 2x4: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES: Design 36% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
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COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2021 IECC
 Project Title: Warehouse Building
 Project Type: Addition
 Exterior Lighting Zone: 3 (Other (LZ3))
 Construction Site: 10 Hartford Road, Delran, New Jersey 08075
 Owner/Agent: Burlington County Department of Public Works, 10 Hartford Road, Delran Township, New Jersey 08075
 Designer/Contractor: Larry Uher, Netta Architects, 1084 West Route 22, Mountainside, New Jersey 07092, 973-379-0006, luh@nettaarchitects.com

Efficiency Packages Description	Credit			
Allowed Exterior Lighting Power				
A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry Facade Lighting (Illuminated area of facade wall or surface)	6 ft2	0.11	No	1
Total Tradable Watts (a) = 0 Base Site Allowance (b) = 500 Total Allowed Watts = 1				

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A base site allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entry Facade Lighting (Illuminated area of facade wall or surface. 6 ft2): Non-tradable Wattage				
Exterior Sconce: Exterior Sconce: LED:	0	6	34	204
Total Tradable Proposed Watts = 0				

Proposed Exterior Lighting Controls	Fixture	Lighting Control
Entry Facade Lighting (Illuminated area of facade wall or surface. 6 ft2): Non-tradable Wattage	Exterior Sconce: Exterior Sconce: LED:	Daylight Shutoff, Facade or Landscape

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
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Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
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COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

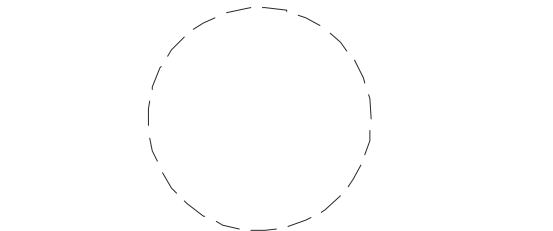
Project Information
 Energy Code: 2021 IECC
 Project Title: Warehouse Building
 Location: Burlington, New Jersey
 Climate Zone: 4a
 Project Type: Addition
 Construction Site: 10 Hartford Road, Delran, New Jersey 08075
 Owner/Agent: Burlington County Department of Public Works, 10 Hartford Road, Delran Township, New Jersey 08075
 Designer/Contractor: Larry Uher, Netta Architects, 1084 West Route 22, Mountainside, New Jersey 07092, 973-379-0006, luh@nettaarchitects.com

Efficiency Packages Description	Credit
Mechanical Systems List	
Quantity System Type & Description	
2 TRANE NTXWPH06B112AA (Single Zone): Split System Heat Pump Heating Mode: Capacity = 14 kBtu/h, Proposed Efficiency = 11.90 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 32.20 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00	

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Warehouse Building
 Data filename: Report date: 01/13/25
 Page 7 of 21



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SHEET CONTENTS:

BUILDING COMPLIANCE INFORMATION

PROJECT TITLE:

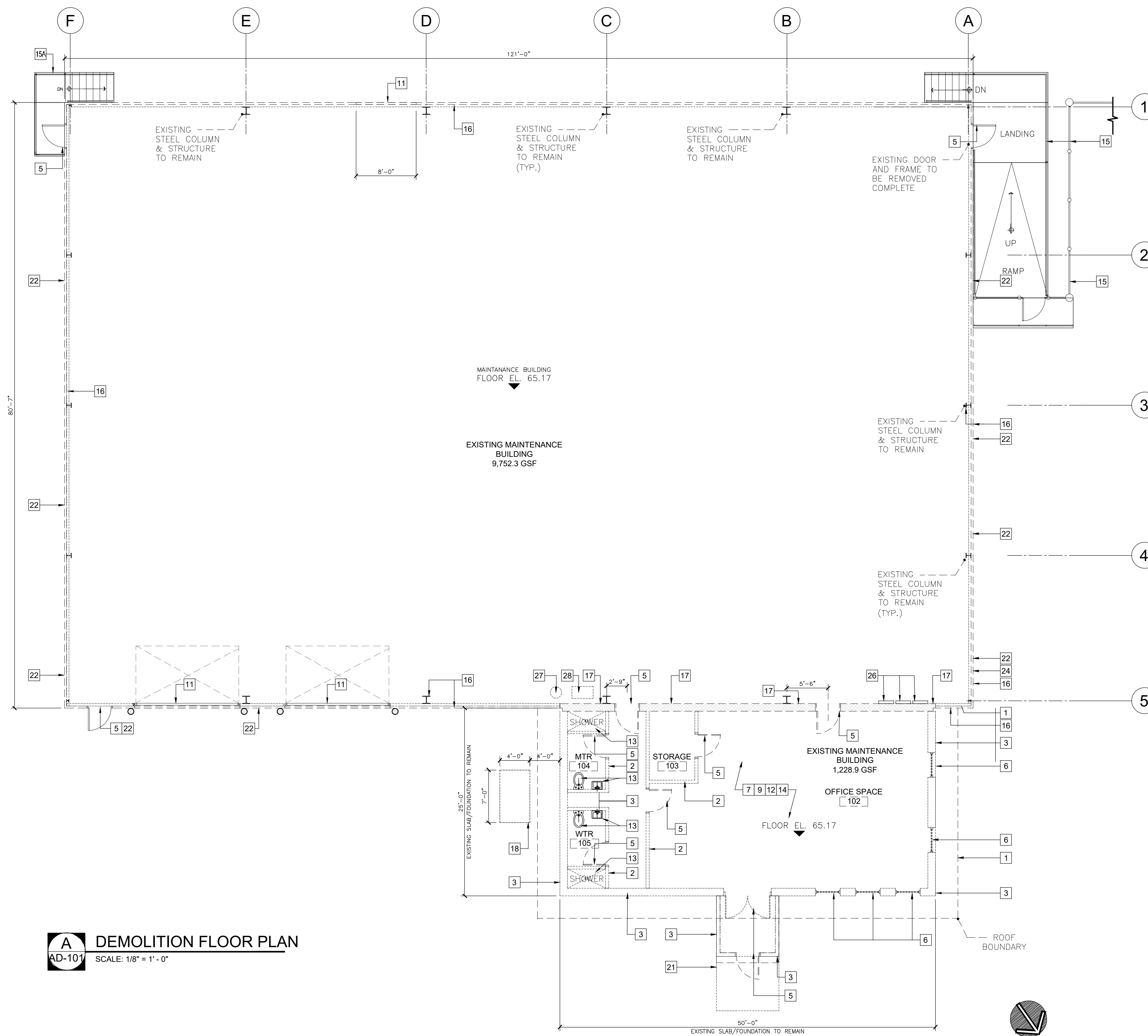
ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
 2025.03.12 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date: 04.09.24
 Scale: AS SHOWN
 Drawn by: JT
 Checked by: LU
 Job No.: 2241869
 Drawing No.:

A-005



A
AD-101 DEMOLITION FLOOR PLAN
 SCALE: 1/8" = 1' - 0"

LEGEND:

- PARTITION OR WALLS TO BE REMOVED
- EXISTING WALLS & COLUMNS TO REMAIN
- WINDOW & FRAME TO BE REMOVED
- EXISTING DOOR TO REMAIN

- DOOR & FRAME TO BE REMOVED
- OVERHEAD DOOR TO BE REMOVED
- OVERHEAD DOOR TO REMAIN

DEMOLITION GENERAL NOTES:

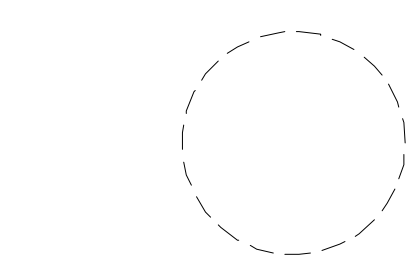
1. DASHED LINES/CROSS HATCH ON DEMOLITION PLANS INDICATE ITEMS TO BE REMOVED IN THEIR ENTIRETY.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY WIRING OR PIPING CONCEALED IN EXISTING PARTITIONS, SOFFITS, OR ANY ITEMS ASSOCIATED WITH THE GENERAL DEMOLITION.
3. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN CONDITION. ALL DEBRIS SHALL BE CLEANED ON A DAILY BASIS. GENERAL CONTRACTOR TO PROVIDE NECESSARY CONTAINERS TO REMOVE ALL DEBRIS FROM SITE LEGALLY.

DEMOLITION NOTES LEGEND

- NOTE IS APPLICABLE TO THE ENTIRE ROOM / SPACE
- NOTE IS APPLICABLE TO SPECIFIC OBJECT / SYSTEM

DEMO FLOOR PLAN KEYNOTES

- 1 REMOVE EXISTING ROOF EQUIPMENT, SKYLIGHTS, GUTTERS/DOWNSPOUTS & BUILT-UP ROOFING SYSTEM. EXISTING STRUCTURAL FRAMING MEMBERS TO REMAIN AS IS
- 2 REMOVE EXIST. WALL IN ITS ENTIRETY.
- 3 REMOVE EXISTING WALL (SHOWN DASHED) AS INDICATED & ALL ASSOCIATED ITEMS. GRIND SMOOTH TO CONCRETE SLAB.
- 4 REMOVE PORTION OF EXIST. WALL. LINTEL TO BE INSTALLED TO SUPPORT BLOCK.
- 5 REMOVE EXISTING DOOR & ALL ITS COMPONENTS (DOOR JAMBS, SADDLE, THRESHOLDS & HARDWARE).
- 6 REMOVE EXISTING WINDOWS & ALL ITS COMPONENTS (JAMBS, SILL, HEADER & HARDWARE)
- 7 REMOVE EXIST. CEILING SYSTEM IN ITS ENTIRETY (CEILING TILES & CEILING MTL GRIDS) INCLUDING BUT NOT LIMITED TO INSTALLED LIGHT FIXTURES, MECH. & ELECTRICAL ITEMS. SEE MECH. & ELECT. DWGS. FOR ADDITIONAL DEMOLITIONS NOTES
- 8 EXISTING LIGHT FIXTURES TO REMAIN.
- 9 REMOVE EXIST. FLOOR FINISHES IN ITS ENTIRETY AND PREPARE EXIST. CONC. FLOOR/SUBFLOOR TO RECEIVE NEW SCHEDULED FINISH. PREPARATION TO EXISTING SUBFLOOR MUST BE COORDINATED AS PER FINISH MATERIAL'S MFR. RECOMMENDATIONS. ALL DAMAGED SUBFLOOR MUST BE REPAIRED ACCORDINGLY. COORDINATE ASBESTOS ABATEMENT ACTIVITIES WITH THE OWNER
- 10 REMOVE EXIST. TOILET PARTITIONS & DOORS
- 11 ALL GARAGE ROLLUP DOOR EQUIPMENT, MOTORS, RAILS, ETC TO REMAIN IN PLACE DURING EXTERIOR CLADDING REPLACEMENT
- 12 REMOVE EXISTING BUILT-IN CASEWORK INCLUDING WHITEBOARD, WALL CABINETS, CHALKBOARDS/TACKBOARDS, ACCESSORIES, FURNITURE, EQUIPMENT & RETURNED TO OWNER.
- 13 EXISTING PLUMBING FIXTURE TO BE REMOVED. CAP ANY ABANDONED WATER OR SANITARY LINES AT POINT OF LAST USE. COORDINATE WITH PLUMBING DRAWINGS.
- 14 DEACTIVATE, DISCONNECT, & REMOVE ALL EXISTING ELECTRICAL FIXTURES, CONDUITS, WIRING, ALL FIRE PROTECTION FIXTURES/PIPINGS, ALL EXISTING HVAC EQUIPMENT, DUCTS, AND WIRING.
- 15 EXISTING CYCLONE FENCE AND RAMP TO REMAIN.
- 16 EXISTING RAMP TO REMAIN.
- 17 REMOVE EXISTING INSULATED METAL ROOF & SIDING SYSTEM. ALL EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE. ANY FIREPROOFING DISTURBED DURING CONSTRUCTION AND DEMOLITION TO BE RESTORED TO ORIGINAL CONDITION.
- 18 EXISTING MASONRY WALL TO REMAIN. EXISTING INSULATION TO REMAIN. ANY INSULATION DISTURBED DURING THE CONSTRUCTION PROCESS TO BE RESTORED TO ORIGINAL CONDITION. STRIP ANY EXISTING FINISHES ON MASONRY WALL AND PREPARE MASONRY WALL FOR NEW PAINT FINISH. REFER TO STRUCTURAL DRAWINGS.
- 19 EXISTING CONCRETE PAD TO BE REMOVED COMPLETE
- 20 EXISTING OFFICE MANSARD ROOF STRUCTURE, BUILD UP ROOF ASSEMBLY, AND TRUSSES TO BE DEMOLISHED COMPLETE
- 21 EXISTING OFFICE BUILDING FOUNDATION TO REMAIN AS IS AND BE PATCHED AND PREPARED FOR NEW METAL STUD FRAMING
- 22 EXISTING CONCRETE RAMP TO BE REMOVED COMPLETE
- 23 EXISTING EXTERIOR LIGHTING TO BE REMOVED AND STORED FOR REINSTALLATION IN NEW EXTERIOR METAL PANEL SYSTEM
- 24 EXISTING EXTERIOR LIGHTS TO BE REMOVED COMPLETE
- 25 EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN
- 26 NOT USED
- 27 EXISTING ELECTRICAL PANELS AND EQUIPMENT TO REMAIN. REFER TO ELECTRICAL DWGS.
- 28 EXISTING WATER HEATER TO BE REMOVED AND RELOCATED. REFER TO CONSTRUCTION PLAN FOR NEW LOCATION.
- 29 EXISTING ICE MAKER TO BE REMOVED AND RELOCATED. REFER TO CONSTRUCTION PLAN FOR NEW LOCATION.



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SHEET CONTENTS:

DEMOLITION FLOOR PLAN

PROJECT TITLE:

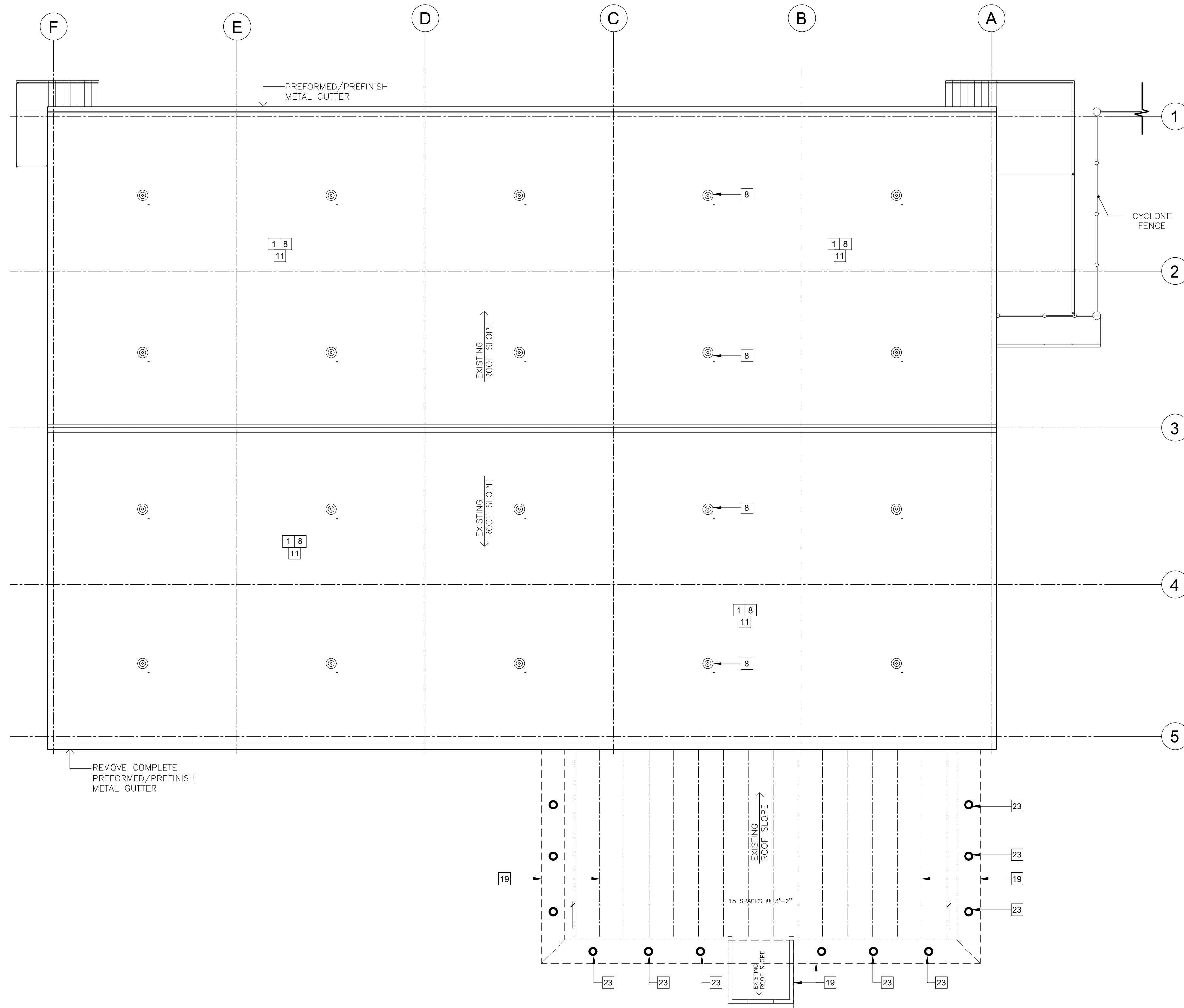
**ADDITIONS AND ALTERATIONS
 BURLINGTON COUNTY DEPT. OF
 PUBLIC WORKS
 10 HARTFORD ROAD, DELRAN TWP.
 BURLINGTON CO. NJ**

SUBMISSION:
 2025.03.12 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date: 04.09.24
 Scale: AS SHOWN
 Drawn by: JT
 Checked by: LU
 Job No.: 2241869
 Drawing No.:

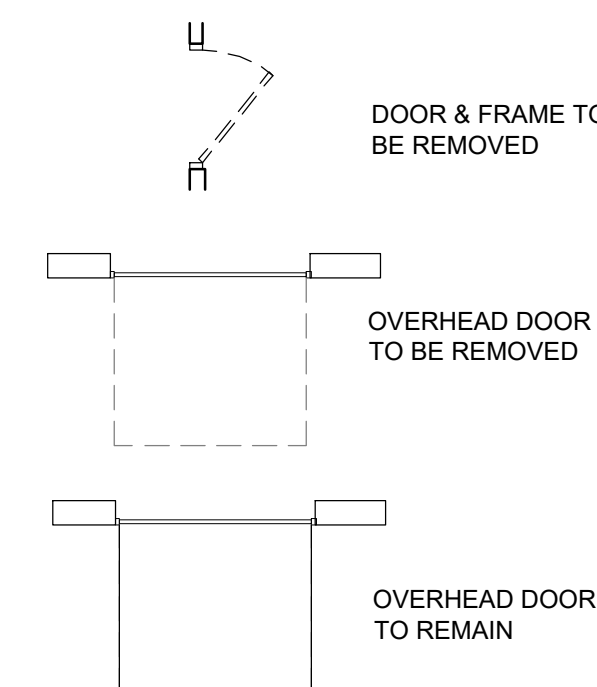
AD-101



A DEMOLITION ROOF PLAN
AD-103 SCALE: 1/8" = 1' - 0"

LEGEND:

- PARTITION OR WALLS TO BE REMOVED
- EXISTING WALLS & COLUMNS TO REMAIN
- WINDOW & FRAME TO BE REMOVED
- EXISTING DOOR TO REMAIN



DEMOLITION GENERAL NOTES:

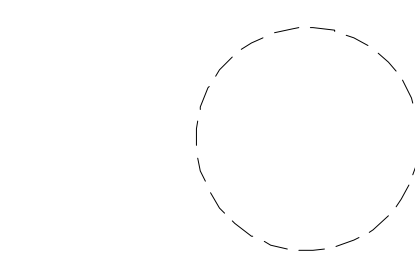
1. DASHED LINES/CROSS HATCH ON DEMOLITION PLANS INDICATE ITEMS TO BE REMOVED IN THEIR ENTIRETY.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY WIRING OR PIPING CONCEALED IN EXISTING PARTITIONS, SOFFITS, OR ANY ITEMS ASSOCIATED WITH THE GENERAL DEMOLITION.
3. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, ALL DEBRIS SHALL BE CLEANED ON A DAILY BASIS. GENERAL CONTRACTOR TO PROVIDE NECESSARY CONTAINERS TO REMOVE ALL DEBRIS FROM SITE LEGALLY.

DEMOLITION NOTES LEGEND

- NOTE IS APPLICABLE TO THE ENTIRE ROOM / SPACE
- NOTE IS APPLICABLE TO SPECIFIC OBJECT / SYSTEM

DEMO FLOOR PLAN KEYNOTES

- 1 REMOVE EXISTING ROOF EQUIPMENT, SKYLIGHTS, GUTTERS/DOWNSPOUTS & BUILT-UP ROOFING SYSTEM. EXISTING STRUCTURAL FRAMING MEMBERS TO REMAIN AS IS
- 2 REMOVE EXIST. WALL IN ITS ENTIRETY.
- 3 REMOVE EXISTING WALL (SHOWN DASHED) AS INDICATED & ALL ASSOCIATED ITEMS. GRIND SMOOTH TO CONCRETE SLAB.
- 4 REMOVE PORTION OF EXIST. WALL. LINTEL TO BE INSTALLED TO SUPPORT BLOCK.
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- 7 REMOVE EXIST. CEILING GRID SYSTEM IN ITS ENTIRETY (CEILING TILES & CEILING MTL GRIDS) INCLUDING BUT NOT LIMITED TO INSTALLED LIGHT FIXTURES, MECH. & ELECTRICAL ITEMS. SEE MECH. & ELECT. DWGS. FOR ADDITIONAL DEMOLITIONS NOTES
- 8 EXISTING LIGHT FIXTURES TO REMAIN.
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- 12 REMOVE EXISTING BUILT-IN CASEWORK INCLUDING WHITEBOARD, WALL CABINETS, CHALKBOARDS/STACKBOARDS, ACCESSORIES, FURNITURE, EQUIPMENT & RETURNED TO OWNER.
- 13 EXISTING PLUMBING FIXTURE TO BE REMOVED. CAP ANY ABANDONED WATER OR SANITARY LINES AT POINT OF LAST USE. COORDINATE WITH PLUMBING DRAWINGS.
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SHEET CONTENTS:

EXISTING STRUCTURAL AND ROOF PLAN

PROJECT TITLE:

**ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF
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10 HARTFORD ROAD, DELRAN TWP.
BURLINGTON CO. NJ**

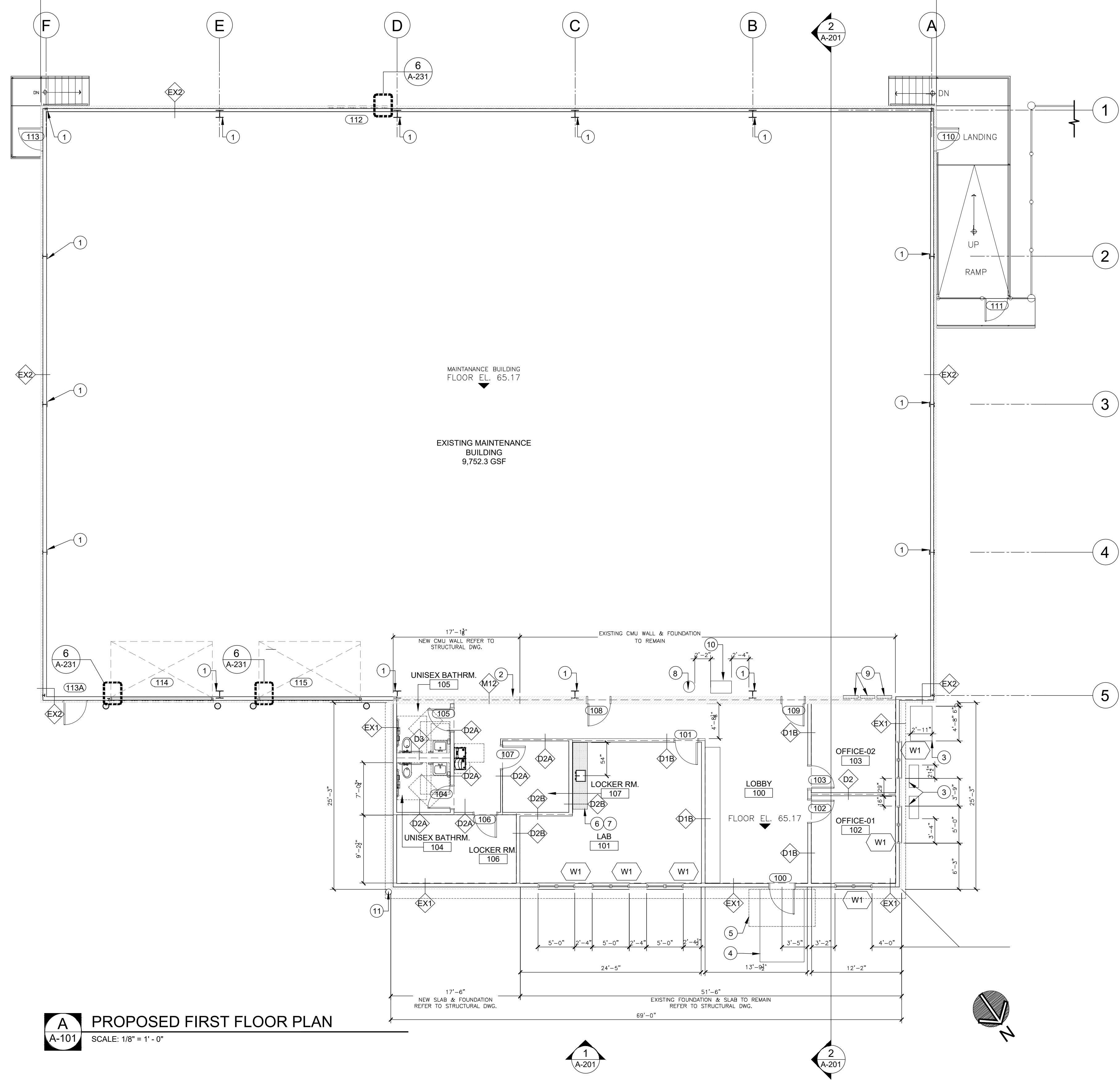
SUBMISSION:

2025.03.12 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date 04.09.24
Scale AS SHOWN
Drawn by JT
Checked by LU
Job No. 2241869
Drawing No.

AD-103



A-101 PROPOSED FIRST FLOOR PLAN
SCALE: 1/8" = 1' - 0"

CONSTRUCTION PLAN KEYNOTES	
1	EXISTING WAREHOUSE STEEL STRUCTURE TO REMAIN. SCOPE OF WORK LIMITED TO INSTALLATION OF NEW METAL INSULATED PANEL AND ROOFING.
2	NEW 12" CMU WALL. REFER TO STRUCTURAL DWGS.
3	NEW CONCRETE PADS FOR MECH. EQUIP. REFER TO STRUCTURAL DWGS FOR DETAILS.
4	NEW CONCRETE WALKWAY TO MAIN ENTRANCE, TO MATCH EXISTING WALKWAY. REFER TO CIVIL DWG.
5	NEW ENTRY AWNING, BASIS OF DESIGN: LUMISHADE BY MAPES CANOPIES.
6	ALL FURNITURE PROVIDED BY OWNER
7	ALL BUILT-IN CABINETRY PROVIDED BY OWNER
8	RELOCATED EXISTING HOT WATER HEATER TO NEW LOCATION SHOWN. REFER TO PLUMBING DWGS.
9	EXISTING ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
10	RELOCATE EXISTING ICE MAKER TO NEW LOCATION SHOWN
11	NEW 6" Ø X 42" HIGH STL. PIPE BOLLARD SCHED. 80. FILL SOLID W/ CONCRETE & PAINTED WITH SAFETY YELLOW COLOR. INSTALL TIGHT TO BUILDING CORNER

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- GENERAL NOTES AND LEGEND**
- ALL DIMENSIONS ARE FROM FACE OF MASONRY, FACE OF GYPSUM BOARD OR FROM CENTER LINE OF COLUMN LINE UNLESS OTHERWISE NOTED.
 - HINGE SIDE OF DOOR ROUGH OPENINGS TO BE SET AT 4" FROM FACE OF GYPSUM ADJACENT (PERPENDICULAR) PARTITION UNLESS OTHERWISE NOTED.
 - PROVIDE ACCESS PANELS @ ALL LOCATIONS REQUIRING SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS. COORDINATE LOCATIONS WITH MEP DRAWINGS AND PROVIDE FIRE RATED UNITS WHEN INSTALLED IN FIRE RATED WALL ASSEMBLY.
 - UNLESS OTHERWISE NOTED, ALL ITEMS AND ASSOCIATED ELECTRICAL, PIPING, PLUMBING, BLOCKING, SUPPORTS, DATA AND WIRING TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR

LEGEND:

- PARTITION OR WALLS TO BE REMOVED
- EXISTING WALLS & COLUMNS TO REMAIN
- WINDOW & FRAME TO BE REMOVED
- EXISTING DOOR TO REMAIN
- DOOR & FRAME TO BE REMOVED
- OVERHEAD DOOR TO BE REMOVED
- OVERHEAD DOOR TO REMAIN

SHEET CONTENTS:

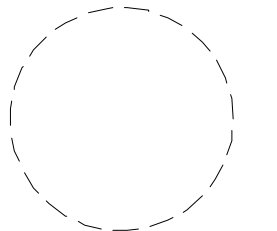
PROPOSED FLOOR PLAN

PROJECT TITLE:
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10 HARTFORD ROAD, DELTRAN TWP.
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Drawing No.	A-101



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SHEET CONTENTS:

ROOF PLAN

PROJECT TITLE:

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 BURLINGTON CO. NJ

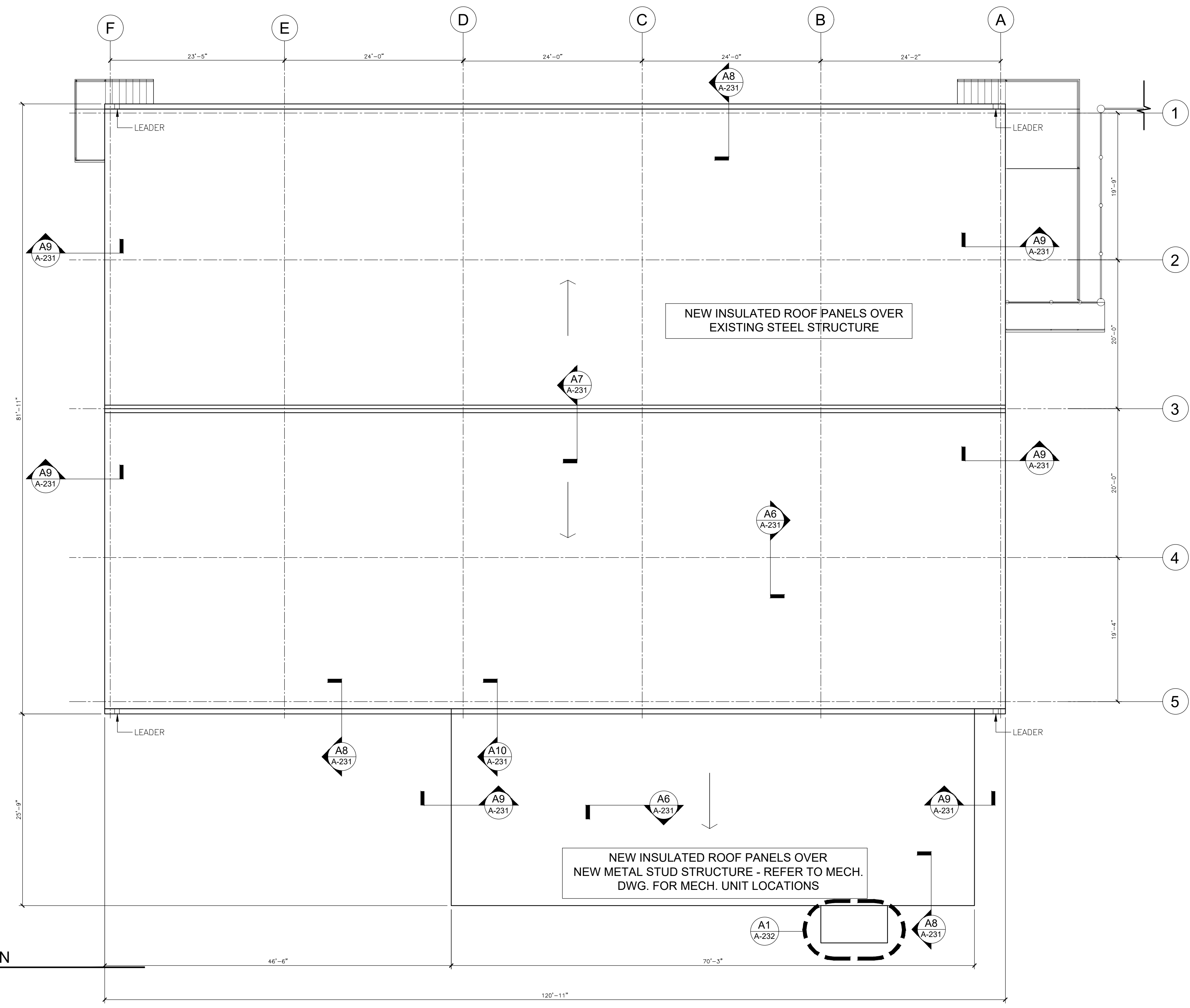
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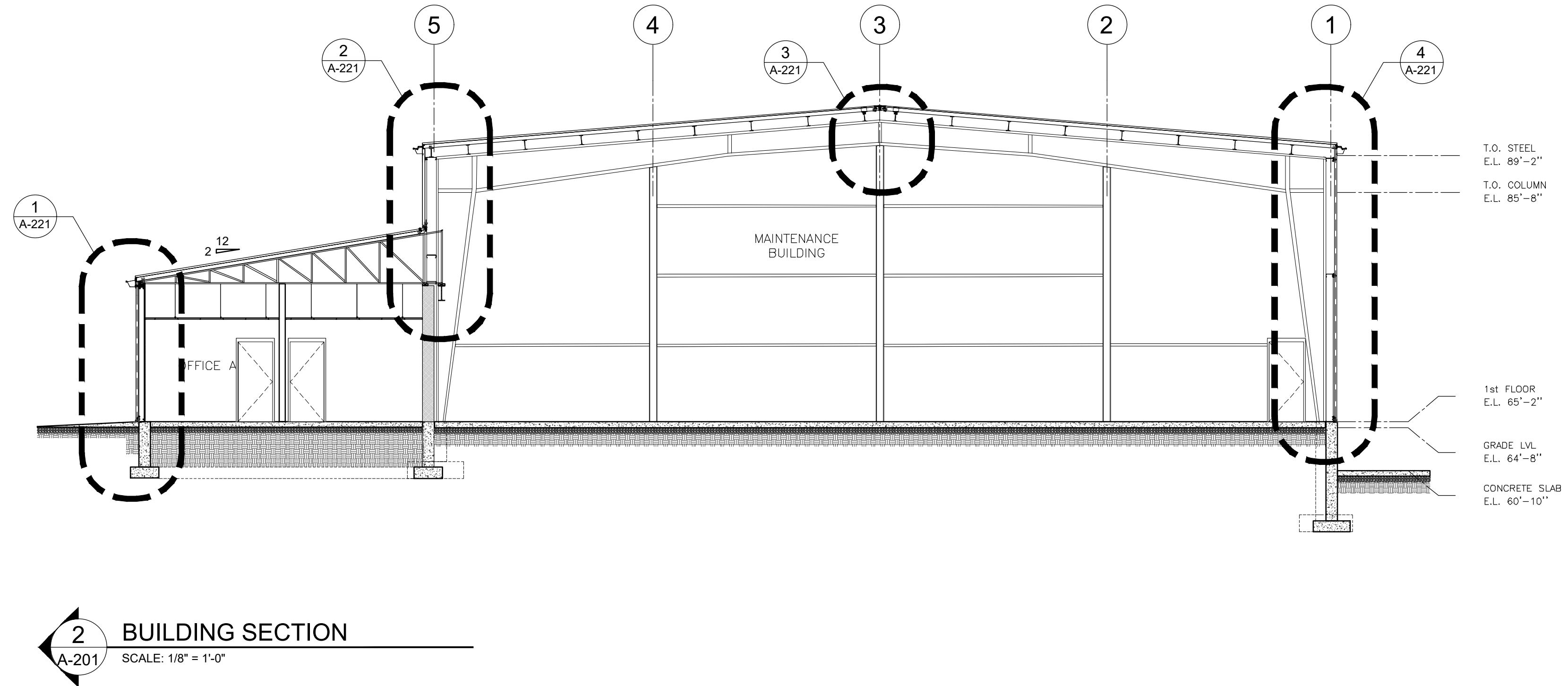
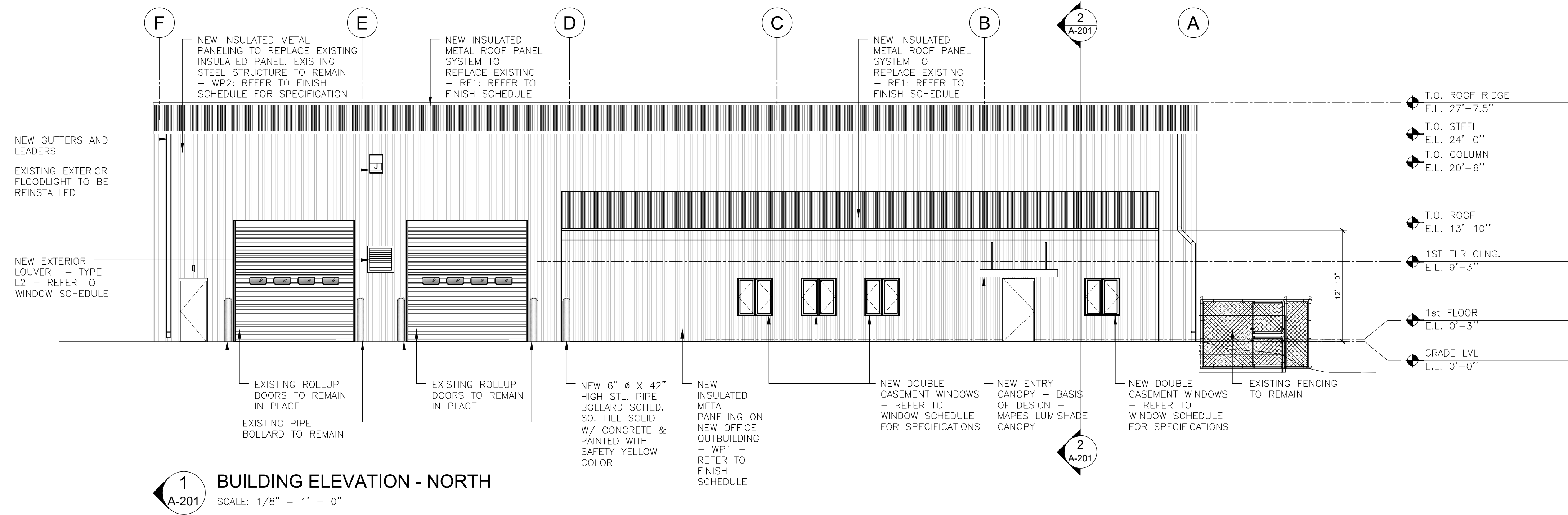
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Date	04.09.24
Scale	AS SHOWN
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Drawing No.	

A-103



A PROPOSED ROOF PLAN
 A-103 SCALE: 1/8" = 1' - 0"



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SHEET CONTENTS:

NORTH BUILDING ELEVATION AND SECTION

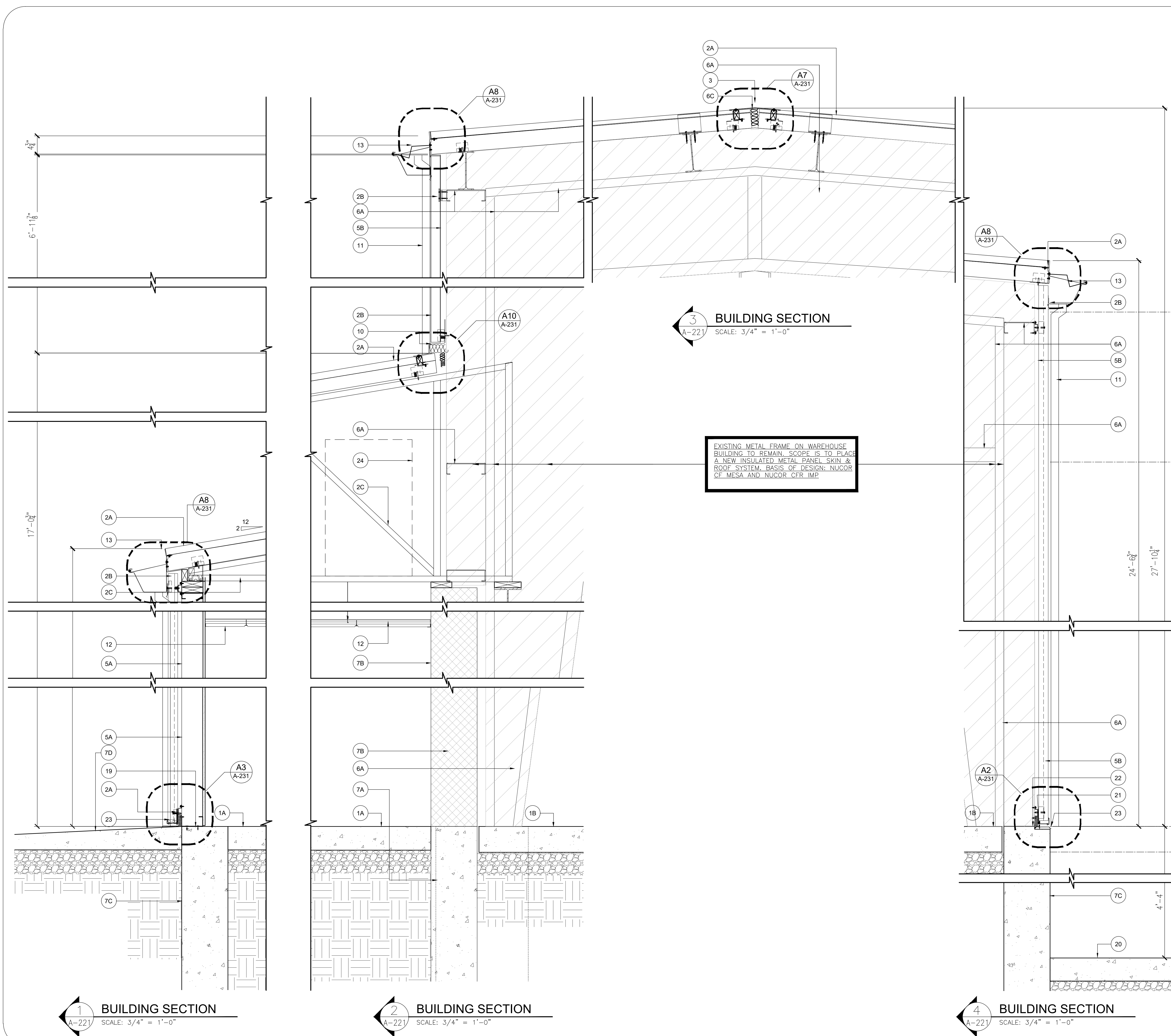
PROJECT TITLE:

ADDITIONS AND ALTERATIONS BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
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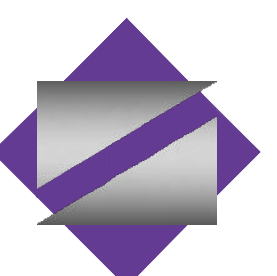
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Drawing No.	



- KEYNOTES THIS DRAWING**
- 1A EXISTING CONCRETE SLAB. REFER TO STRUCT'L DWGS.
 - 1B TYP. FLOOR CONSTRUCTION "FA2", GARAGE TYP. FLOOR CONSTRUCTION REFER TO STRUCT'L DWGS.
 - 2A NEW 4" THICK INSULATED METAL ROOFING SYSTEM, NUCOR CENTRIA VERSAPANEL ROOF OR APPROVED EQUAL - REFER TO FINISH SCHEDULE
 - 2B NEW 2.5" THICK INSULATED METAL WALL SYSTEM, NUCOR CENTRIA VERSAWALL OR APPROVED EQUAL - WP2: REFER TO FINISH SCHEDULE
 - 2C NEW LIGHT GAUGE METAL PREFABRICATED ROOF TRUSS. REFER TO STRUCTURAL DWGS.
 - 3 RIDGE CAP AS PER INSULATED METAL ROOF MFR - REFER TO ROOF PLAN
 - 4 MECHANICAL LOUVER REFER TO MECHANICAL DRAWINGS
 - 5A EXT. WALL TYPE "EX-1"
 - 5B EXT. WALL TYPE "EX-2"
 - 6A EXISTING STEEL REFER TO STRUCT'L DWGS. ALL EXISTING STEEL TO BE STRIPPED OF EXISTING INSULATION AND SAND BLASTED SMOOTH IN PREPARATION FOR NEW PAINT COATING. REFER TO FINISH SCHEDULE FOR PAINT SPECIFICATION
 - 6B FIELD FILL COMPRESSIBLE OR SPRAY IN INSULATION
 - 6D FIELD APPLY SEALANT AT ALL INSULATED METAL PANEL JOINTS AS PER MFR
 - 7A CONC. FOUNDATION WALL. REFER TO STRUCT'L DWGS.
 - 7B CMU WALL WITH REINF. REFER TO STRUCT'L DWGS.
 - 7C EXISTING FOUNDATION WALL. REFER TO STRUCTURAL DWGS.
 - 7D NEW CONCRETE WALKWAY TO MAIN BUILDING ENTRANCE
 - 8 NOT USED
 - 9 NOT USED
 - 10 COUNTERFLASHING
 - 11 NEW 4"x5" PREFINISH ALUM. WATER LEADER. COLOR TO MATCH METAL INSULATED PANEL
 - 12 CEILING REFER TO FINISH SCHEDULE DWGS.
 - 13 GUTTER TO MATCH INSULATED METAL PANEL AND ROOF SYSTEM COLOR, WITH OPTIONAL SUPPORT ANGLE. FASTENERS TO MATCH SYSTEM COLORS. REFER TO ROOF PLAN.
 - 14 COMPACTED GRAVEL & EARTHFILL
 - 15 EXISTING BEAM (WF)/COLUMN (H).
 - 16 6"x 42" HIGH STL. PIPE BOLLARD SCHED. 80. FILL SOLID WITH CONCRETE AND PAINTED WITH SAFETY YELLOW COLOR.
 - 17 STL. PLATE. SEE STRUCT'L DWGS.
 - 17B GALV. STEEL FRAMING REFER TO STRUCTURAL DWGS.
 - 18 CONTINUOUS GALV. STEEL ANGLE REFER TO STRUCTURAL DWGS.
 - 19 CONTINUOUS BASE ANGLE SEALED TO SLAB, FASTENED AS PER MFR. SPEC.
 - 20 NEW ACT CEILING - SEE FINISH SCHEDULE FOR SPECIFICATION
 - 20 EXISTING CONCRETE SLAB TO REMAIN
 - 21 FLUSH WALL PANEL BASE WITH BASE TRIM.
 - 22 INSULATED METAL PANEL HIDDEN JOINT FASTENERS
 - 23 INSULATED METAL PANEL FLUSH BASE CONDITION - SEE DTL A2/A231
 - 24 NEW PROPOSED LOCATION OF MECH. UNITS - REFER TO MECH. DWG.



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SHEET CONTENTS:

WALL SECTIONS

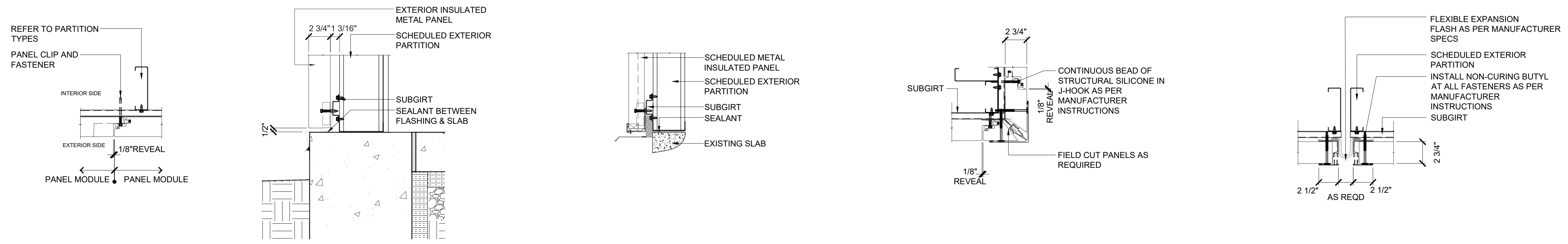
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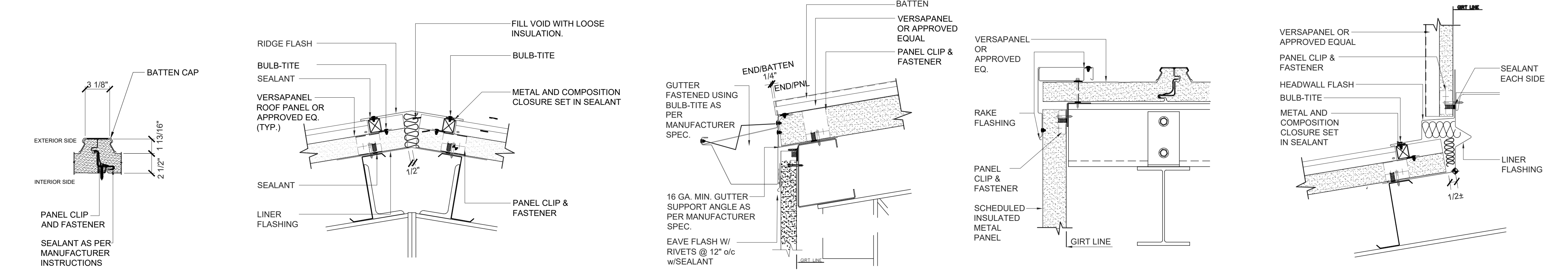
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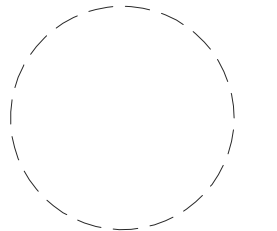
Date	04.09.24
Scale	AS SHOWN
Drawn by	JT
Checked by	LU
Job No.	2241869
Drawing No.	A-221



A1 TYP. INSULATED METAL WALL PANEL JOINT N.T.S.
 A2 TYP. INSULATED METAL PANEL FLUSH BASE N.T.S.
 A3 TYP. INSULATED METAL PANEL BASE N.T.S.
 A4 TYP. INSULATED METAL PANEL CORNER DETAIL N.T.S.
 A5 TYP. INSULATED METAL PANEL EXPANSION JOINT (NOT USED) N.T.S.



A6 TYP. INSULATED METAL ROOF PANEL JOINT SCALE: 1/8"=1'-0"
 A7 RIDGE APEX DETAIL SCALE: 1/8"=1'-0"
 A8 EAVE DETAIL W/ GUTTER SCALE: 1/8"=1'-0"
 A9 GABLE DETAIL SCALE: 1/8"=1'-0"
 A10 ROOF HEADWALL SCALE: 1/8"=1'-0"



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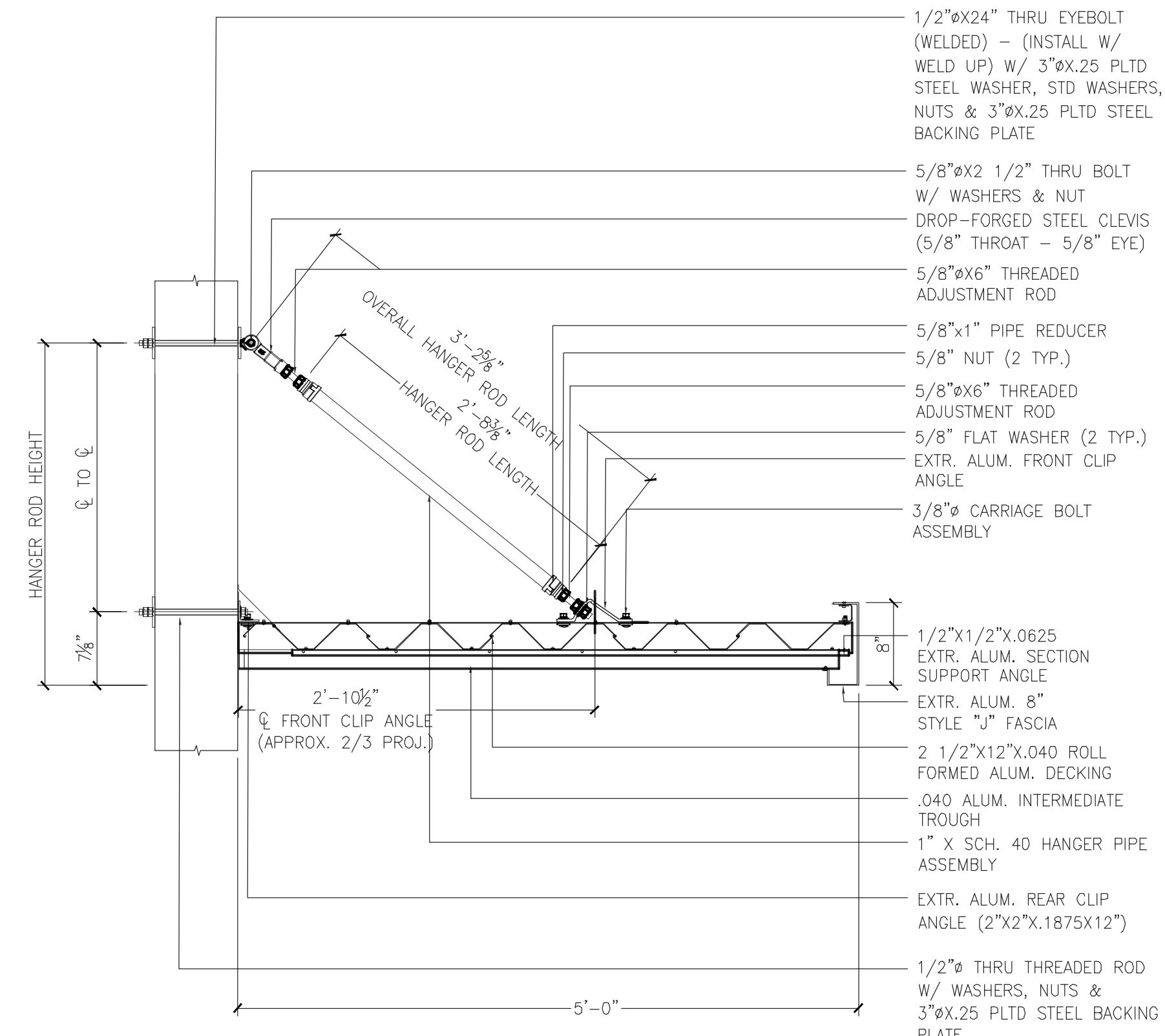
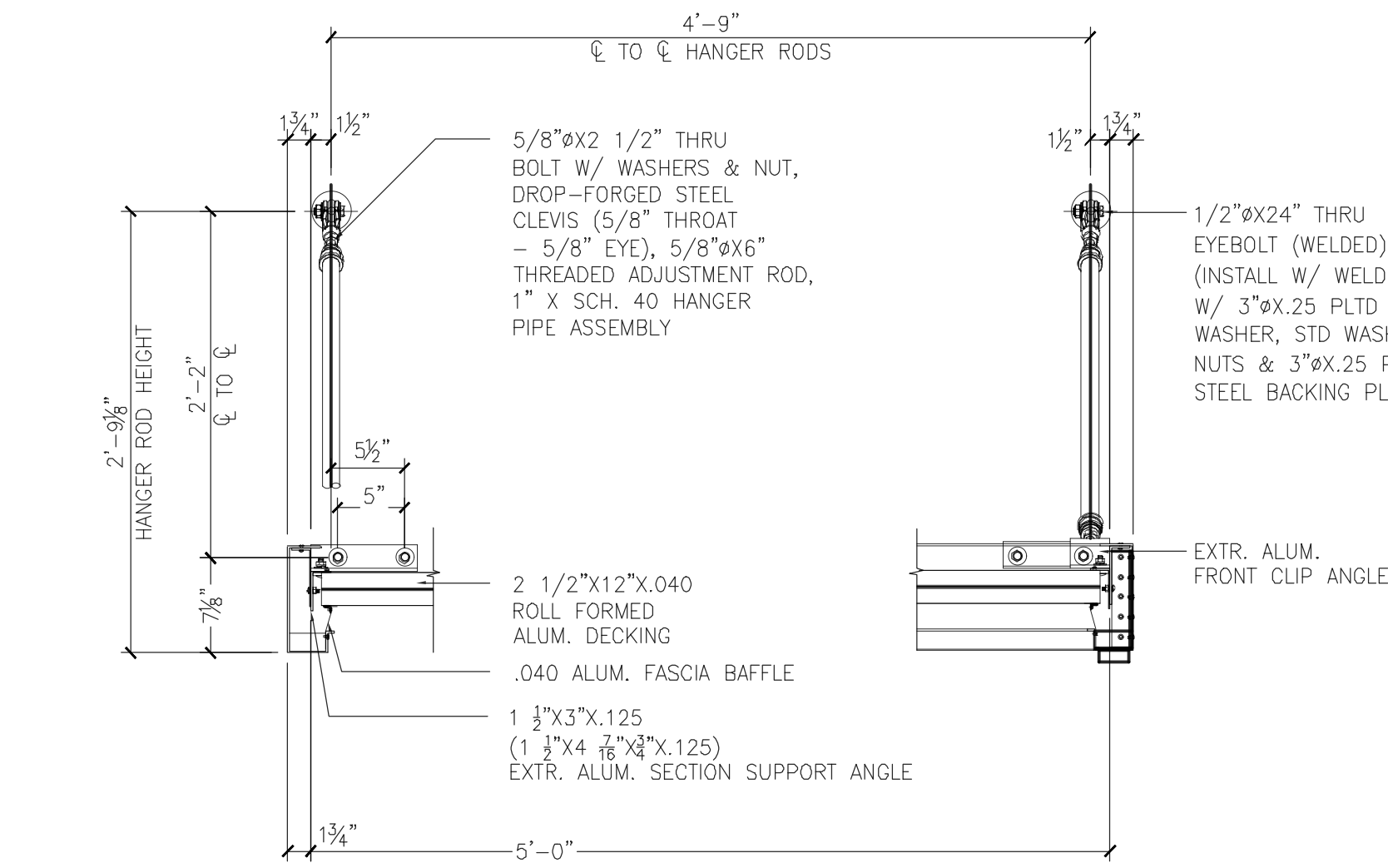
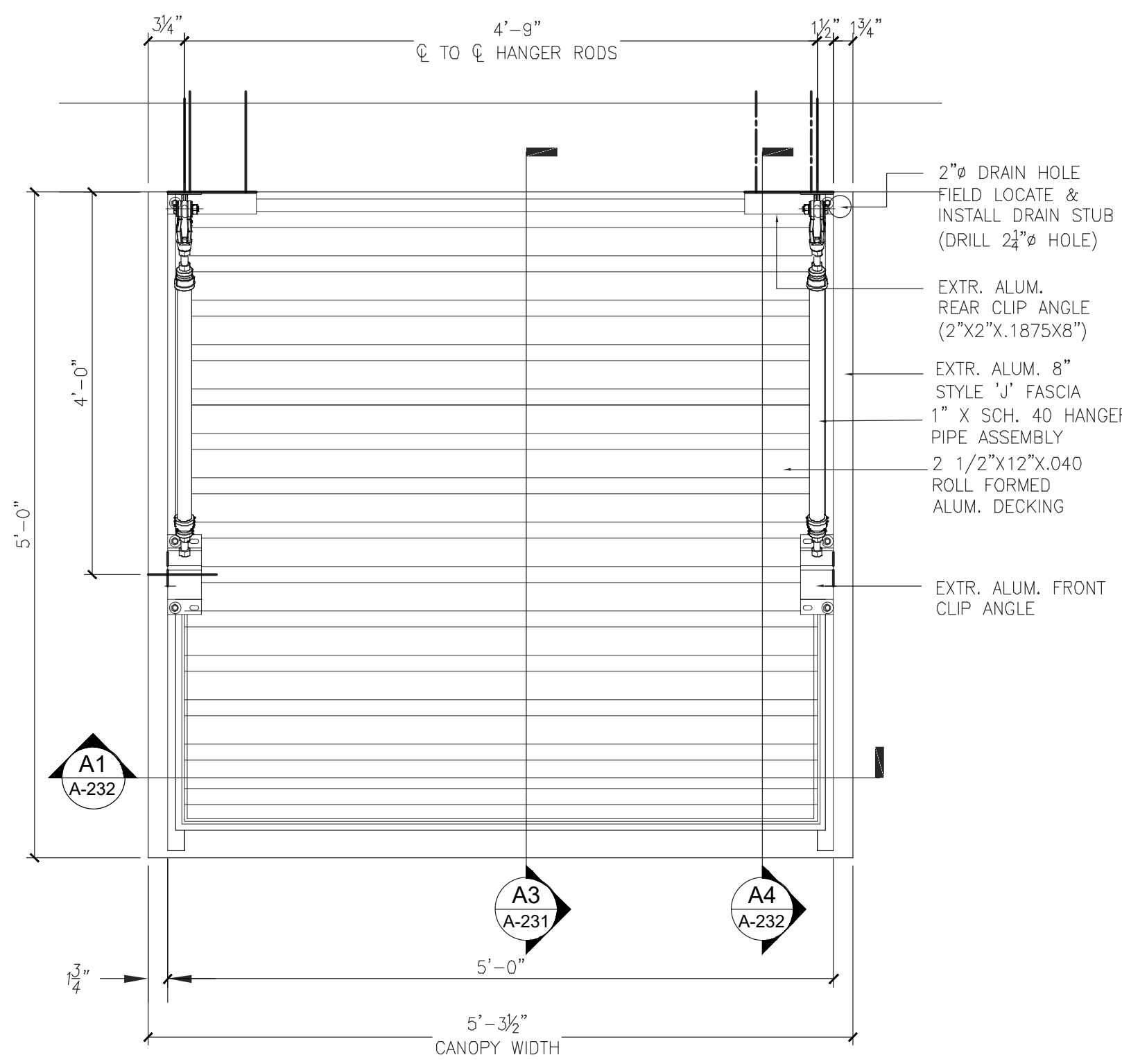
TYPICAL METAL INSULATED PANEL DETAILS

PROJECT TITLE:
**ADDITIONS AND ALTERATIONS
 BURLINGTON COUNTY DEPT. OF
 PUBLIC WORKS
 10 HARTFORD ROAD, DELRAN TWP.
 BURLINGTON CO. NJ**

SUBMISSION:
 2025.03.12 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

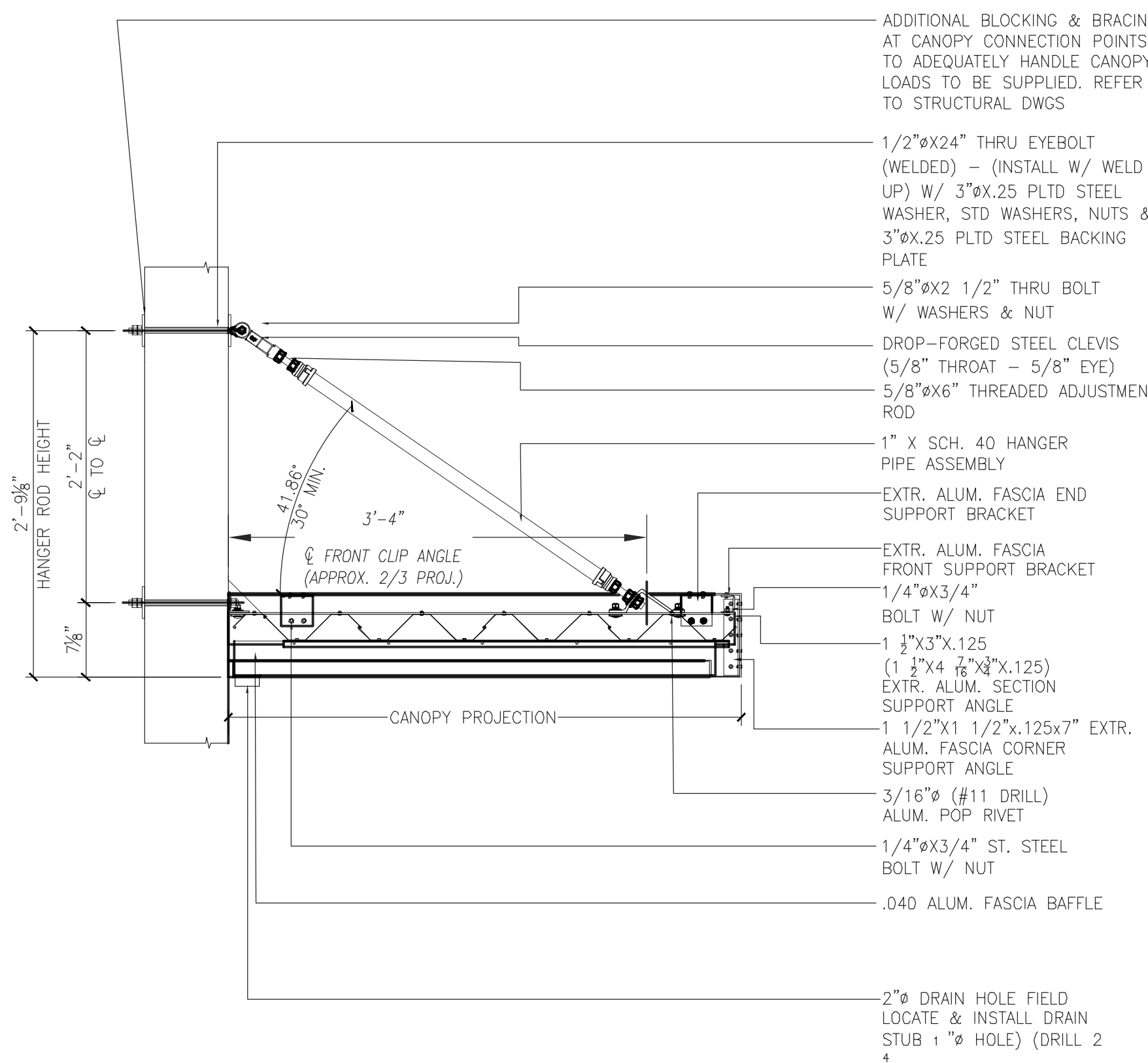
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 Checked by: LU
 Job No.: 2241869
 Drawing No.:



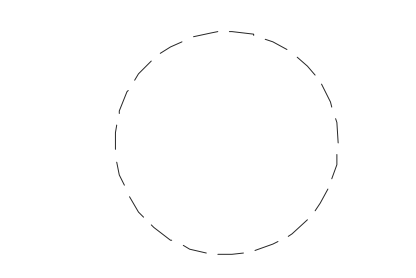
A1 TYP. FRONT ENTRYWAY CANOPY PLAN

A2 TYP. CANOPY SECTION

A3 TYP. CANOPY SECTION



A4 TYP. CANOPY SECTION



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SHEET CONTENTS:

TYPICAL FRONT ENTRYWAY EXTERIOR CANOPY DETAILS

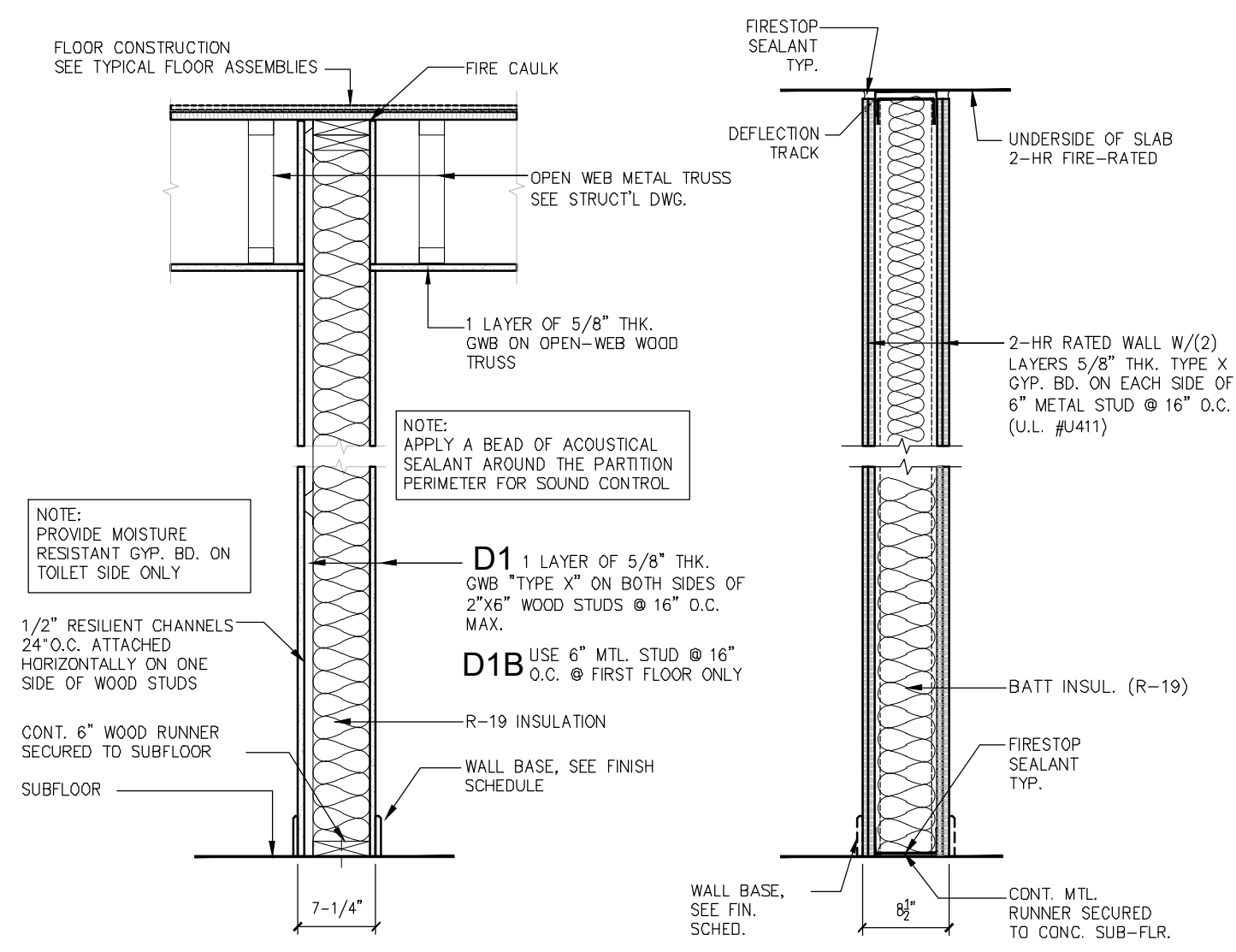
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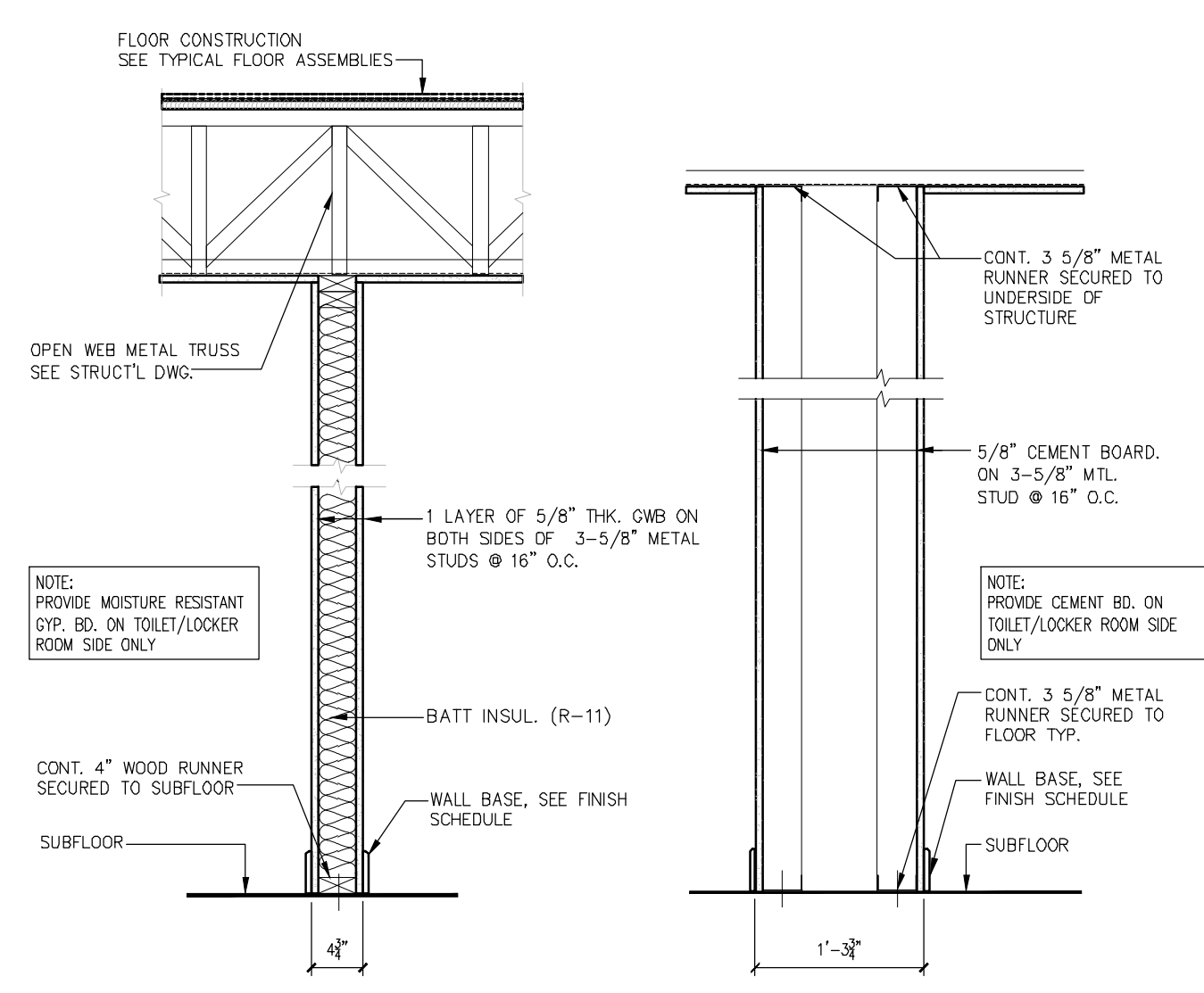
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Date 04.09.24
Scale AS SHOWN
Drawn by JT
Checked by LU
Job No. 2241869
Drawing No.

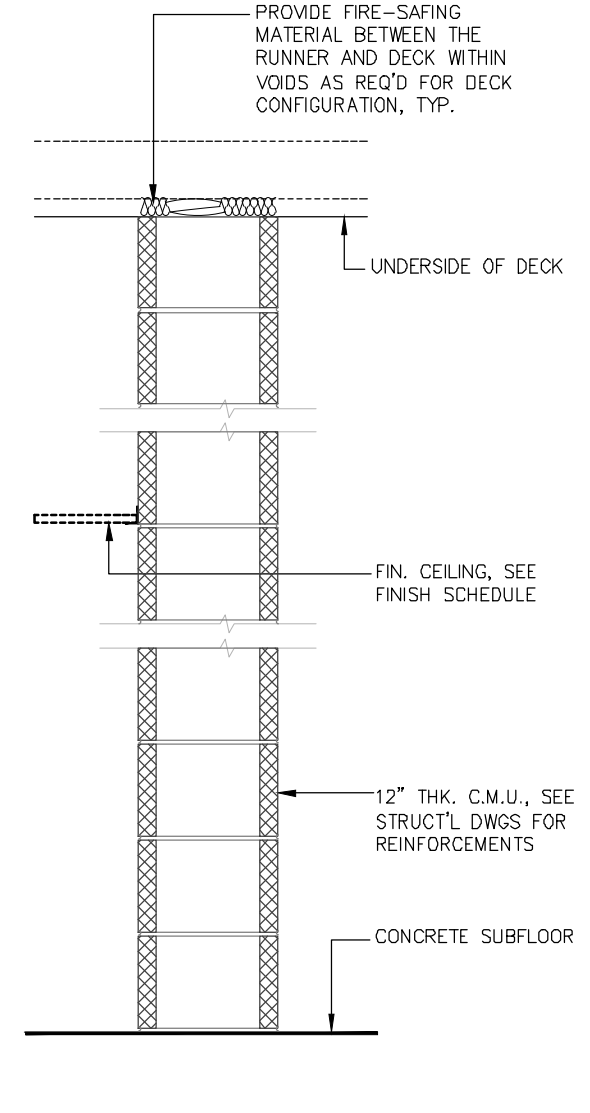
A-232



- D1 DRYWALL PARTITION TYPE**
1-HOUR RATED - UL DESIGN No. U419
STC RATING: 48 (DEMISING WALL)
- D1B DRYWALL PARTITION TYPE**
1-HOUR RATED - UL DESIGN No. U419
STC RATING: 48 (DEMISING WALL)
- D1B DRYWALL PARTITION TYPE**
1-HOUR RATED - UL DESIGN No. U419
STC RATING: 48 (DEMISING WALL)
- D1A DRYWALL PARTITION TYPE**
2-HOUR RATED - UL DESIGN No. U411
STC RATING: 56 (DEMISING WALL)



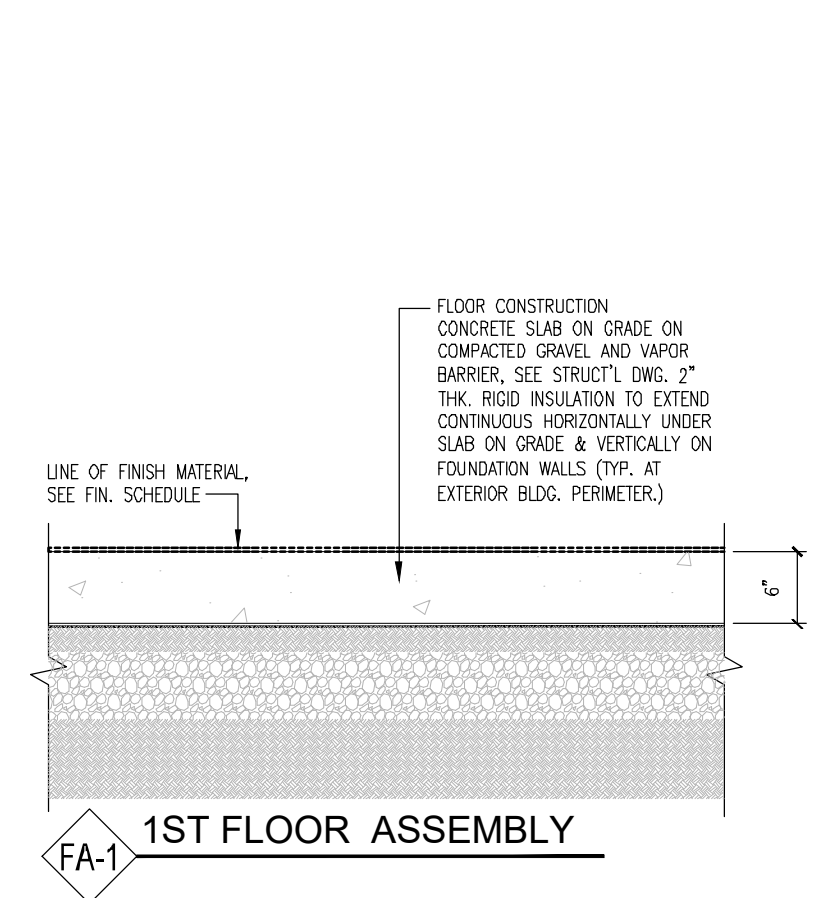
- D2 DRYWALL PARTITION TYPE**
NON RATED PARTITION
- D2A DRYWALL PARTITION TYPE**
SAME AS D2 EXCEPT WITH 2" SOUND ATTENUATION BLANKET AND MOISTURE RESISTANT GWB ON TOILET SIDE ONLY
- D2B DRYWALL PARTITION TYPE**
SAME AS D2A EXCEPT WITH 6" MTL. STUD AND MOISTURE RESISTANT TYPE X GWB ON TOILET/LOOKER SIDE ONLY
- D2C DRYWALL PARTITION TYPE**
SAME AS D2 EXCEPT WITH 3 5/8" MTL. STUD



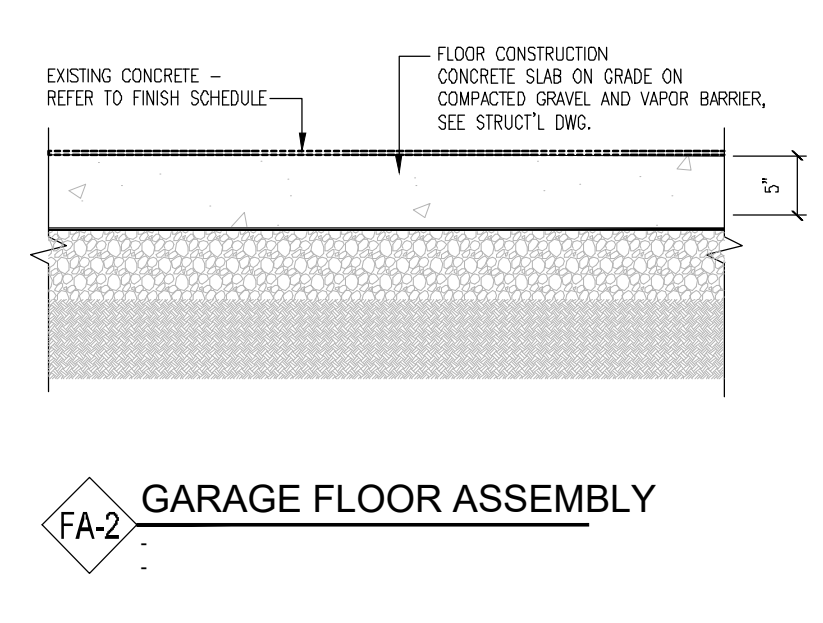
- M12 12" CMU PARTITION**
NON-RATED (EXTEND TO UNDERSIDE OF DECK)

INTERIOR WALL TYPES

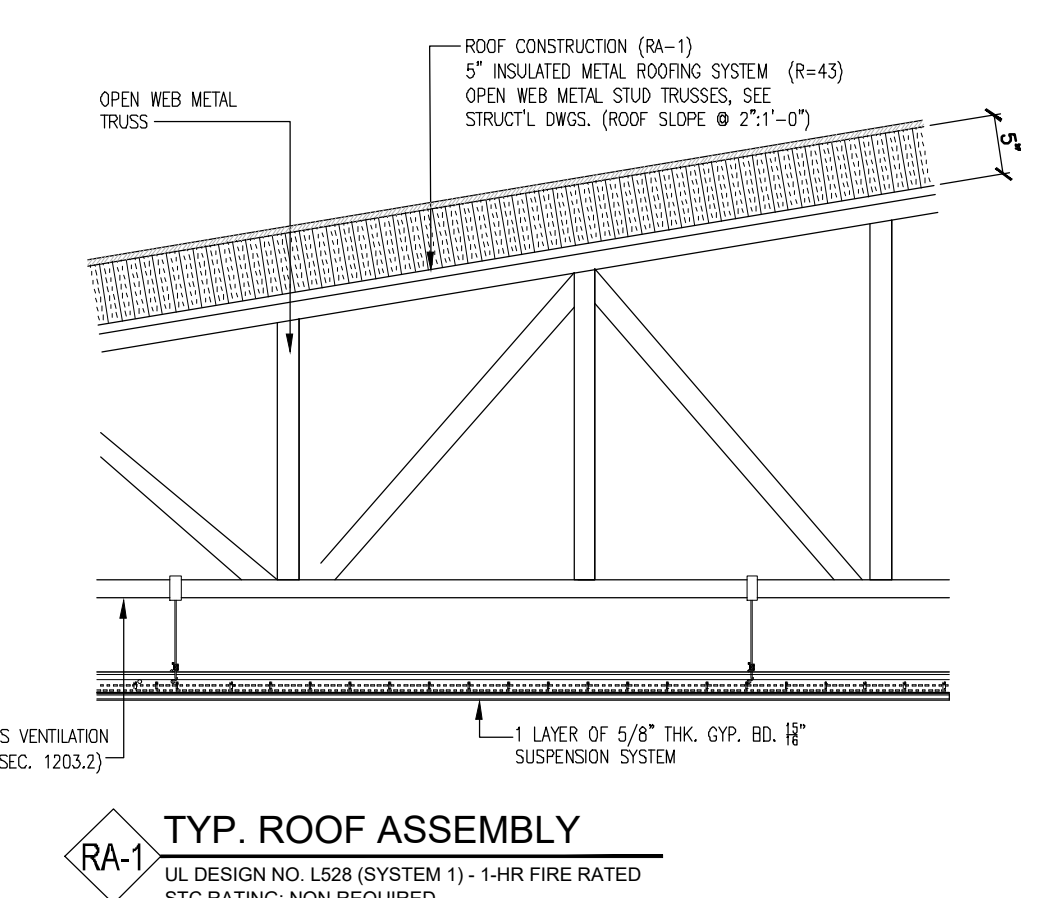
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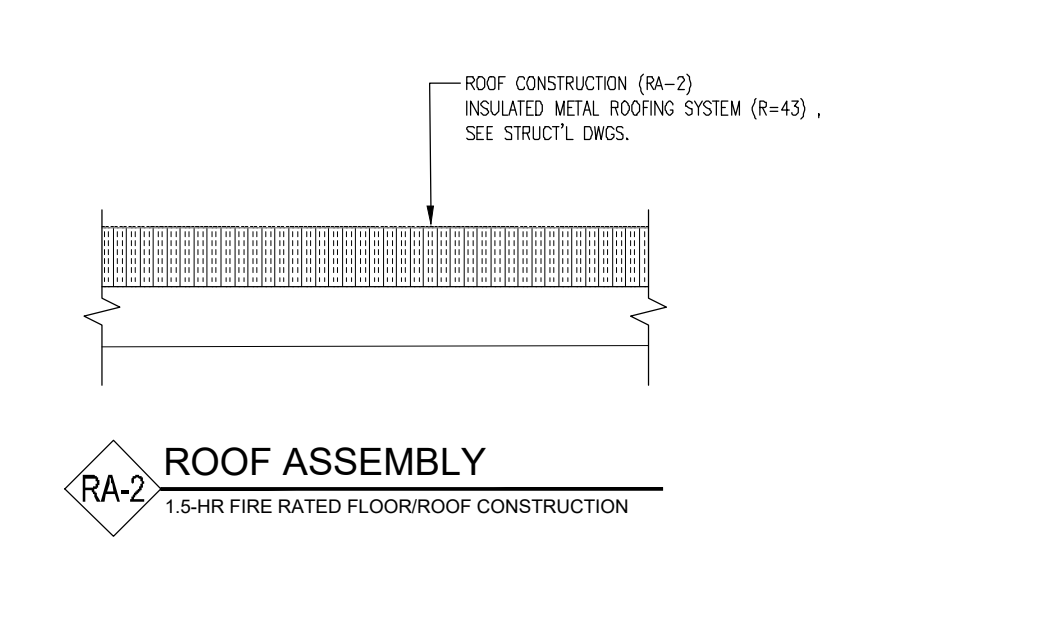
FA-1 1ST FLOOR ASSEMBLY



FA-2 GARAGE FLOOR ASSEMBLY



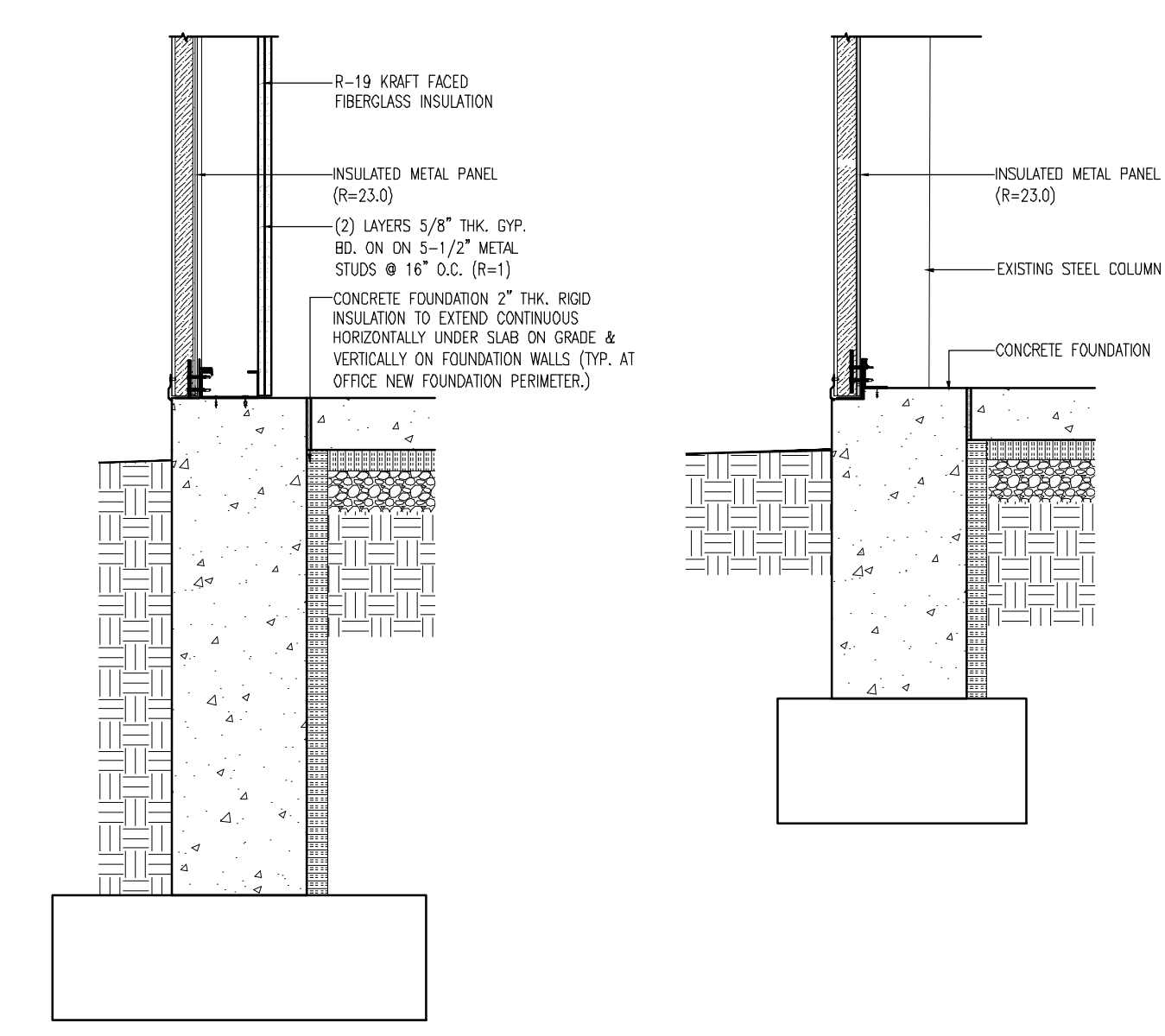
RA-1 TYP. ROOF ASSEMBLY
UL DESIGN NO. L508 (SYSTEM 1) - 1-HR FIRE RATED
STC RATING: NON REQUIRED



RA-2 ROOF ASSEMBLY
1.5-HR FIRE RATED FLOOR/ROOF CONSTRUCTION

FLOOR / ROOF ASSEMBLY

SCALE: 1" = 1'-0"



EX-1 INSULATED METAL PANEL WALL
R=23.0, U.L. U348 - 1 HR.

EX-2 INSULATED METAL PANEL WALL
R=23.0, U.L. U348 - 1 HR.

EXTERIOR WALL TYPES

SCALE: 1" = 1'-0"

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SHEET CONTENTS:

PARTITION TYPES

PROJECT TITLE:
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10 HARTFORD ROAD, DELRAN TWP.
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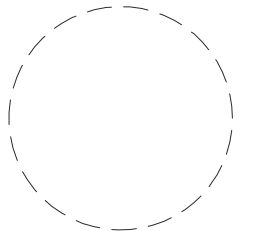
DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	JT
Checked by	LU
Job No.	2241869
Drawing No.	

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR LOCATION		DOOR							FRAME					SILL	FIRE-RATING	HDWR. SET	REMARKS	
	FROM	TO	WD	HGT	THK	MATL.	FIN	TYPE	GL	MATL.	FIN.	TYPE	JAMB	HEAD					MATL.
100	LOBBY	BLDG. EXTERIOR	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J3	H3	AL	S2	-	1.0	
101	HALLWAY	LABORATORY	3'-0"	7'-0"	1 3/4"	H.M.	PT	FV1	T	H.M.	DP1	1	J1	H1	AL	-	-	2.0	
102	LOBBY	OFFICE-01	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J1	H1	-	-	-	4.0	
103	LOBBY	OFFICE-02	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J1	H1	-	-	-	4.0	
104	HALLWAY	UNISEX BATHROOM	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J1	H1	AL	S5	-	3.0	
105	HALLWAY	UNISEX BATHROOM	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	-	J1	H1	AL	S5	-	3.0	
106	HALLWAY	MEN'S LOCKER RM.	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	T	H.M.	DP1	1	J1	H1	AL	S5	-	3.0	
107	HALLWAY	WOMEN'S LOCKER RM.	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J1	H1	AL	S5	-	3.0	
108	GARAGE	HALLWAY	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J2	H2	AL	S2	-	1.0	EXISTING OPENING
109	GARAGE	HALLWAY	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J2	H2	AL	S2	-	1.0	EXISTING OPENING
110	GARAGE	BLDG. EXTERIOR	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J6	H6	AL	S2	-	1.0	NEW DOOR/FRAME TO INSTALL @ SAME LOCATION
111	RAMP	BLDG. EXTERIOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING GATE DOOR IN EXISTING CYCLONE FENCE TO REMAIN
112	GARAGE	BLDG. EXTERIOR	8'-0"	8'-0"	-	-	-	-	-	-	-	-	J5	H5	-	-	-	-	SECTIONAL OVERHEAD DOORS - ELECTRIC-HIGH-LIFT
113	GARAGE	BLDG. EXTERIOR	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J6	H6	AL	S2	-	1.0	NEW DOOR/FRAME TO INSTALL @ SAME LOCATION
113A	GARAGE	BLDG. EXTERIOR	3'-0"	7'-0"	1 3/4"	H.M.	PT	F	-	H.M.	DP1	1	J6	H6	AL	S2	-	1.0	NEW DOOR/FRAME TO INSTALL @ SAME LOCATION
114	GARAGE	BLDG. EXTERIOR	14'-0"	16'-0"	-	-	-	-	-	-	-	-	J5	H5	-	-	-	-	EXISTING SECTIONAL OVERHEAD DOORS - ELECTRIC-HIGH-LIFT
115	GARAGE	BLDG. EXTERIOR	14'-0"	16'-0"	-	-	-	-	-	-	-	-	J5	H5	-	-	-	-	EXISTING SECTIONAL OVERHEAD DOORS - ELECTRIC-HIGH-LIFT

- * NOTE: 1. ALL EXISTING DOOR FRAMES & DOORS SHALL BE CLEAN, SANDED BEFORE APPLYING NEW PAINT & SEALED FINISH.
 2. CLEAN ALL INTERIOR WINDOWS INCLUDING GLASS, ALUMINUM FRAMES & SILLS.
 3. ALL EXISTING INTERIOR DOORS TO BE CLEAN & PAINTED TO MATCH COLORS OF NEW DOORS.
 4. ALL FRP DOORS & FRAMES & OVERHEAD DOORS & FRAMES COLORS TO BE DETERMINE (TBD)



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DOOR TYPE SCHEDULE		SCALE 1/4" = 1'-0"		DOOR FRAME TYPE	
F HOLLOW METAL DOOR REFER TO DOOR SCHEDULE FOR MATL.	F1 HOLLOW METAL DOOR WITH LOUVER	FV1 HOLLOW METAL DOOR WITH VISION GLASS	FV2 FRP/HOLLOW METAL DOOR WITH VISION GLASS	1 H.M. DOOR FRAME CMU WALL APPLICATION	2 O.H. DOOR FRAME CMU WALL APPLICATION

CD1 VERTICAL TRACK INSULATED SECTIONAL DOOR RIBBED PANEL WITH DSB GLAZING	CD2 VERTICAL TRACK INSULATED SECTIONAL DOOR RIBBED PANEL WITH DSB GLAZING

NOTE:
 1. SEE PLAN FOR DOOR SWING
 2. ALL HARDWARE MOUNTING SHALL MEET APPLICABLE HANDICAPPED ACCESS CODES. COORDINATE AND VERIFY ALL MOUNTING HEIGHTS WITH LOCAL CODE JURISDICTIONS, HANDICAPPED CODES AND PROJECT DESIGN REQUIREMENTS.
 3. HOLLOW DOORS, COORDINATE CONCEALED HARDWARE WITH THE MINIMUM STILE AND RAIL DIMENSIONS AND DOOR AND HARDWARE SPECIFICATIONS. ALLOW DEPTH OF THE HARDWARE PLUS THE MINIMUM REQUIRED RAIL OR STILE AS SPECIFIED BY AWI.
 4. ALL HARWARE, LEVERS, CLOSERS, SADDLES, ETC. TO MEET A.D.A. ACCESSIBILITY REQUIREMENTS.

HARDWARE NOTES:

LEGEND:

AL	ALUMINUM
CA	CLEAR ANODIZED ALUMINUM
COLA	COLORLED ANODIZED ALUMINUM
CLR	CLEAR
CG	CHAINLINK GATE
CSG	CHAINLINK SLIDING GATE
FRP	FIBER-REINFORCED PANEL
FRG	FIRE RATED GLAZING
DP1	SCHEDULE DOOR FRAME PAINT
GA STL	GALVANIZED STEEL
GL	GLASS
H.M.	HOLLOW METAL
PC	POWDER COATED
PT	PAINT - SEE FIN. SCHED.
RB	RUBBER
STL	STEEL
S/STL	STAINLESS STEEL
ST	STONE
T	TEMPERED GLASS
TBD	TO BE DETERMINE
T.I.	TEMPERED INSULATING GLASS
WD	SLID CORE WOOD DOOR
WM	WIRE MESH
WT	WIRED TEMPERED GLASS

SHEET CONTENTS:

DOOR SCHEDULE

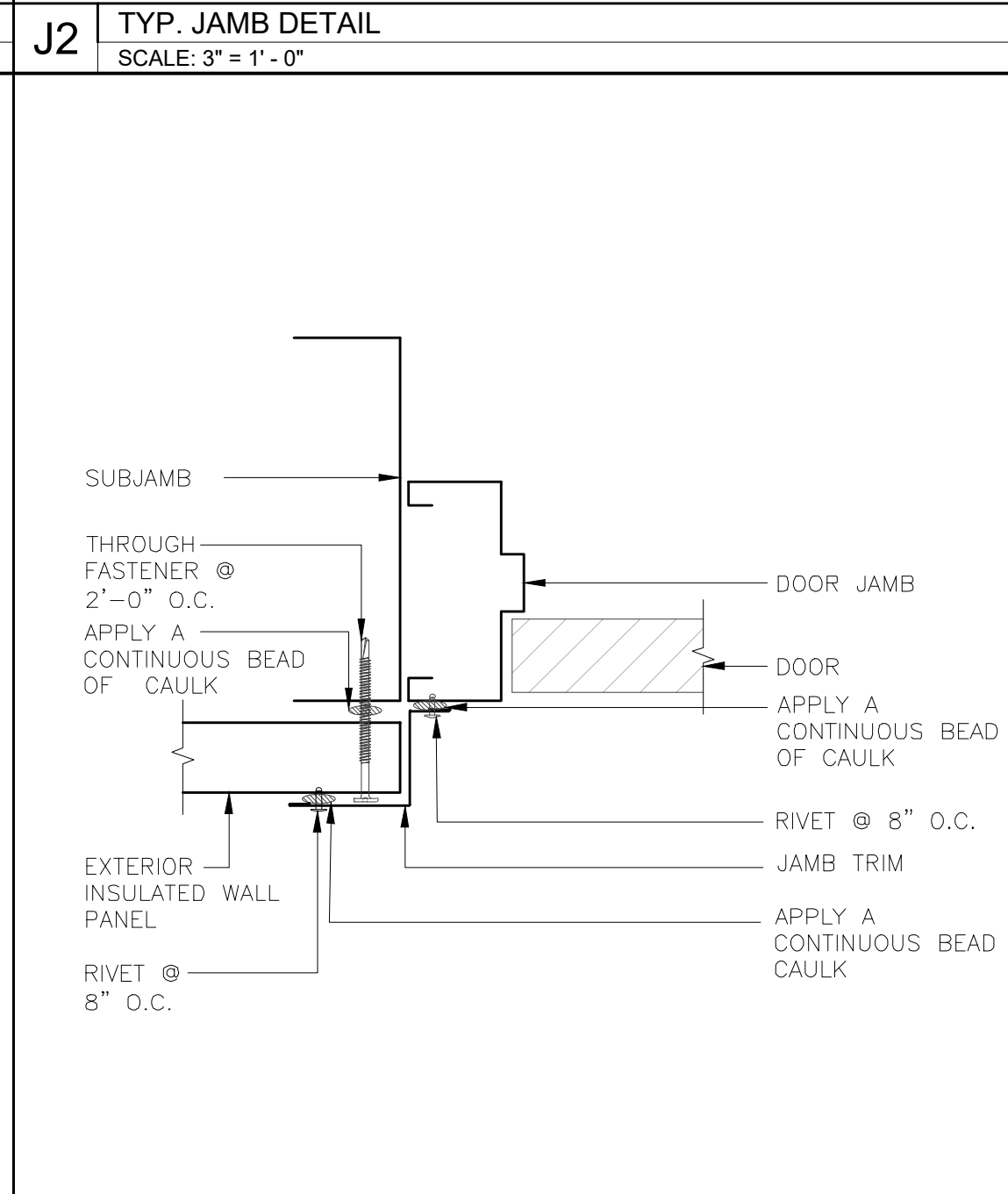
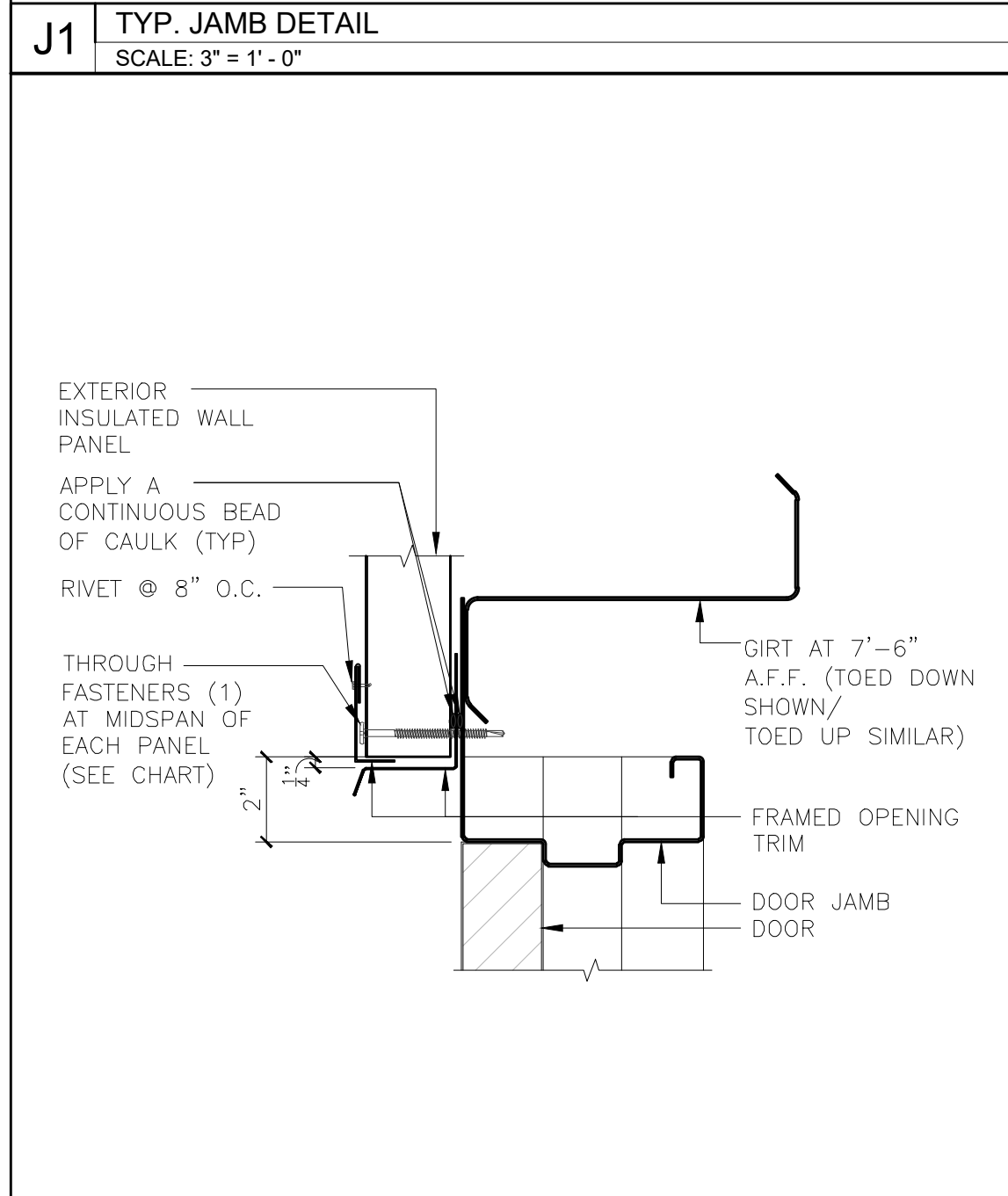
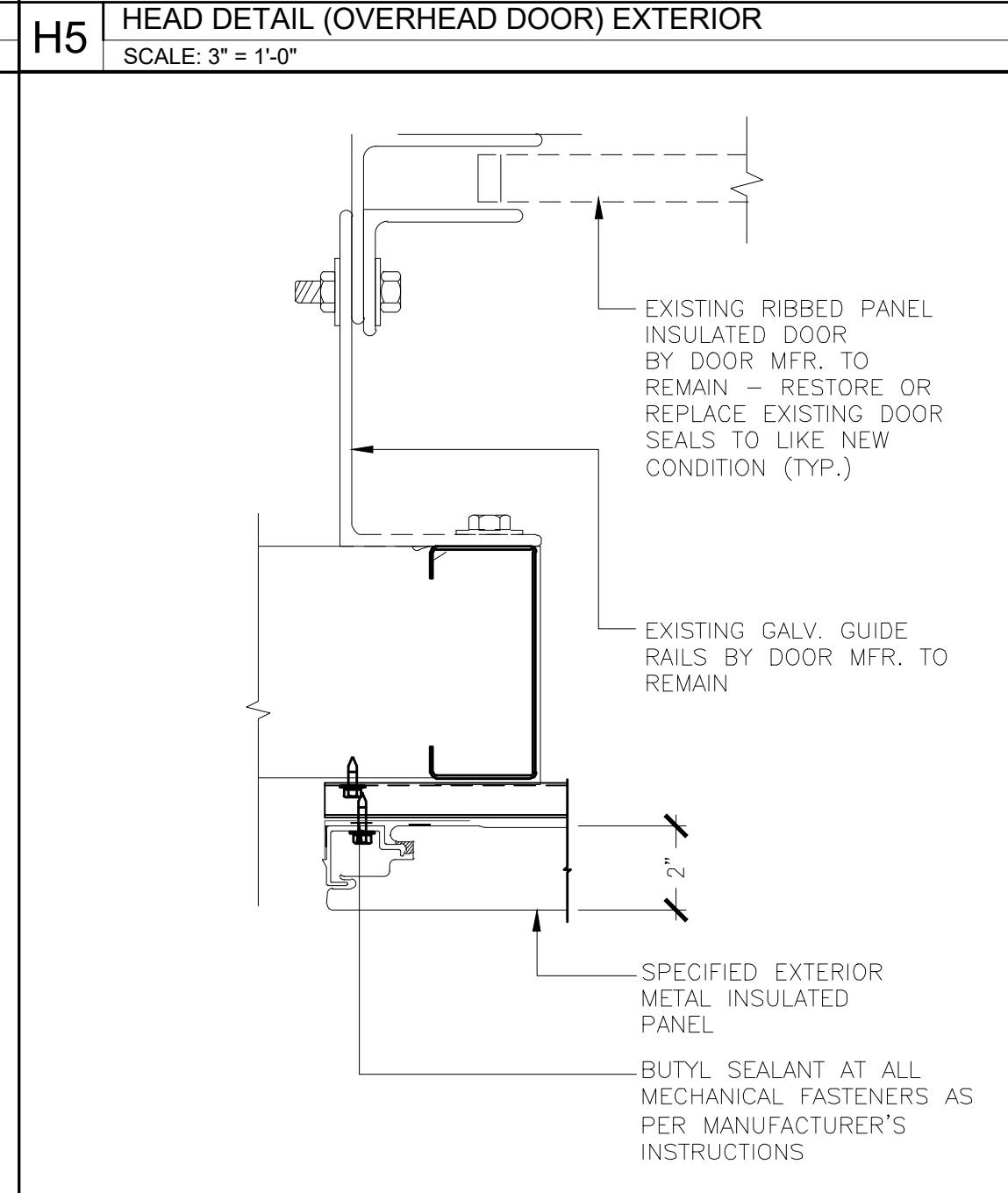
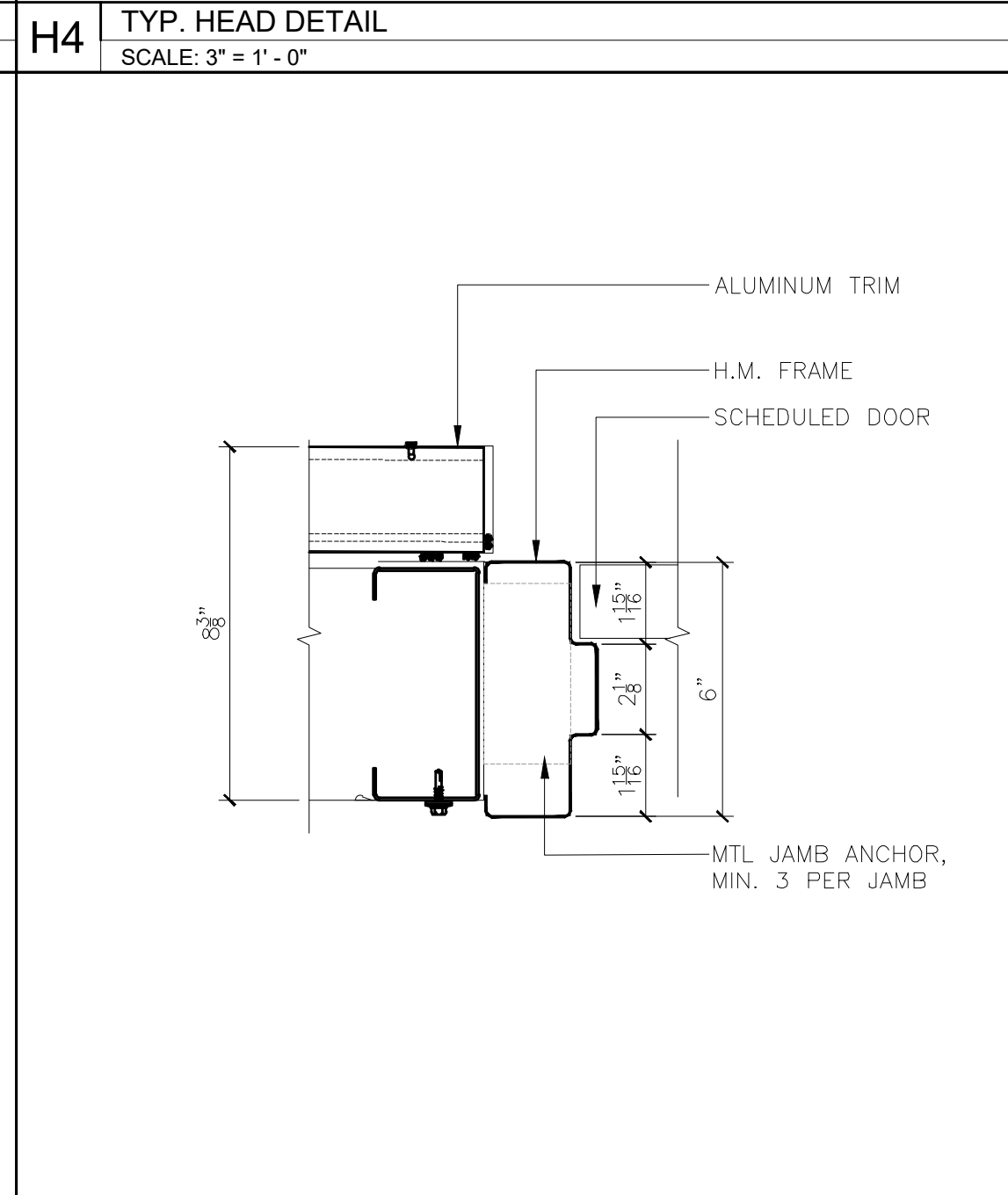
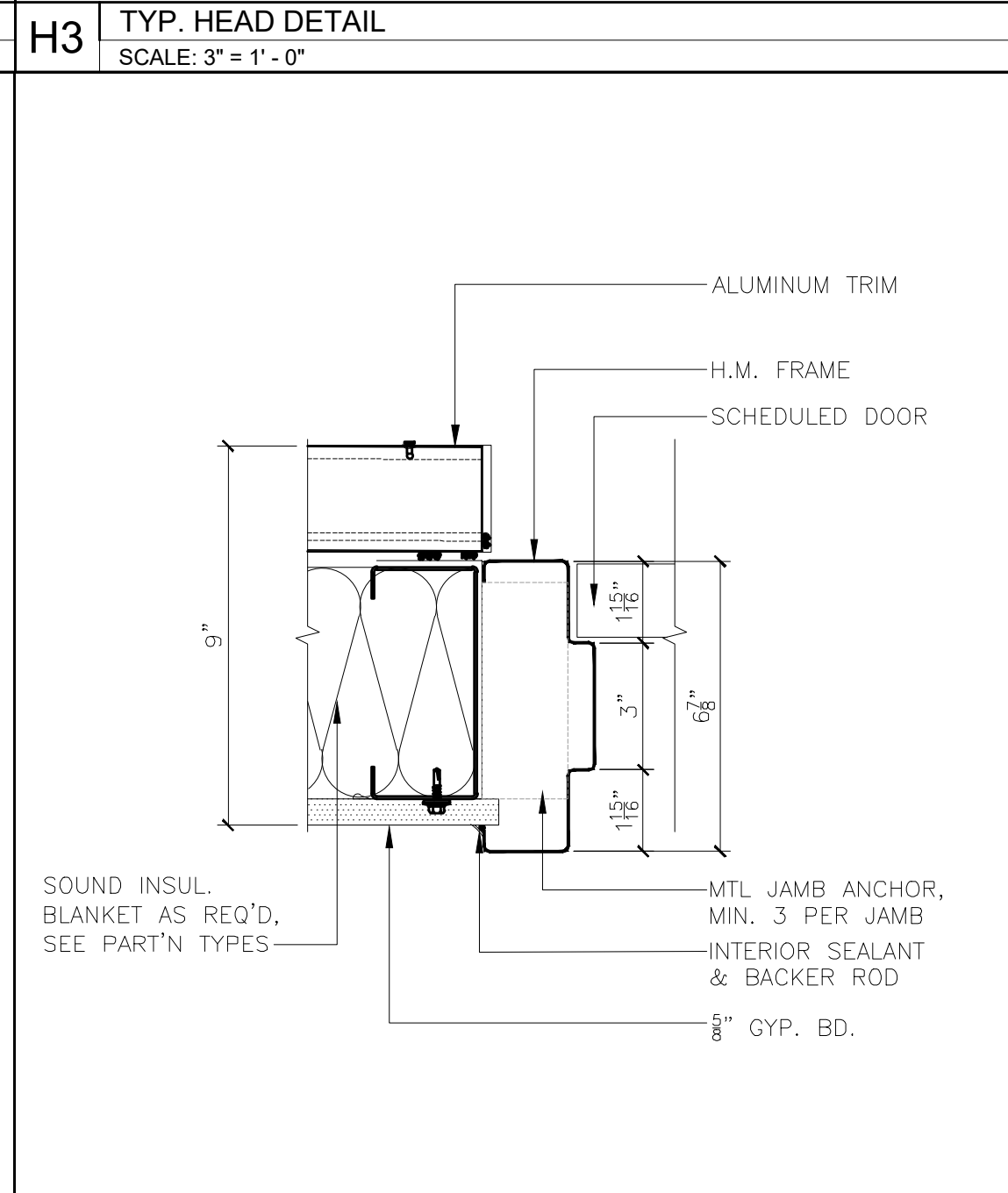
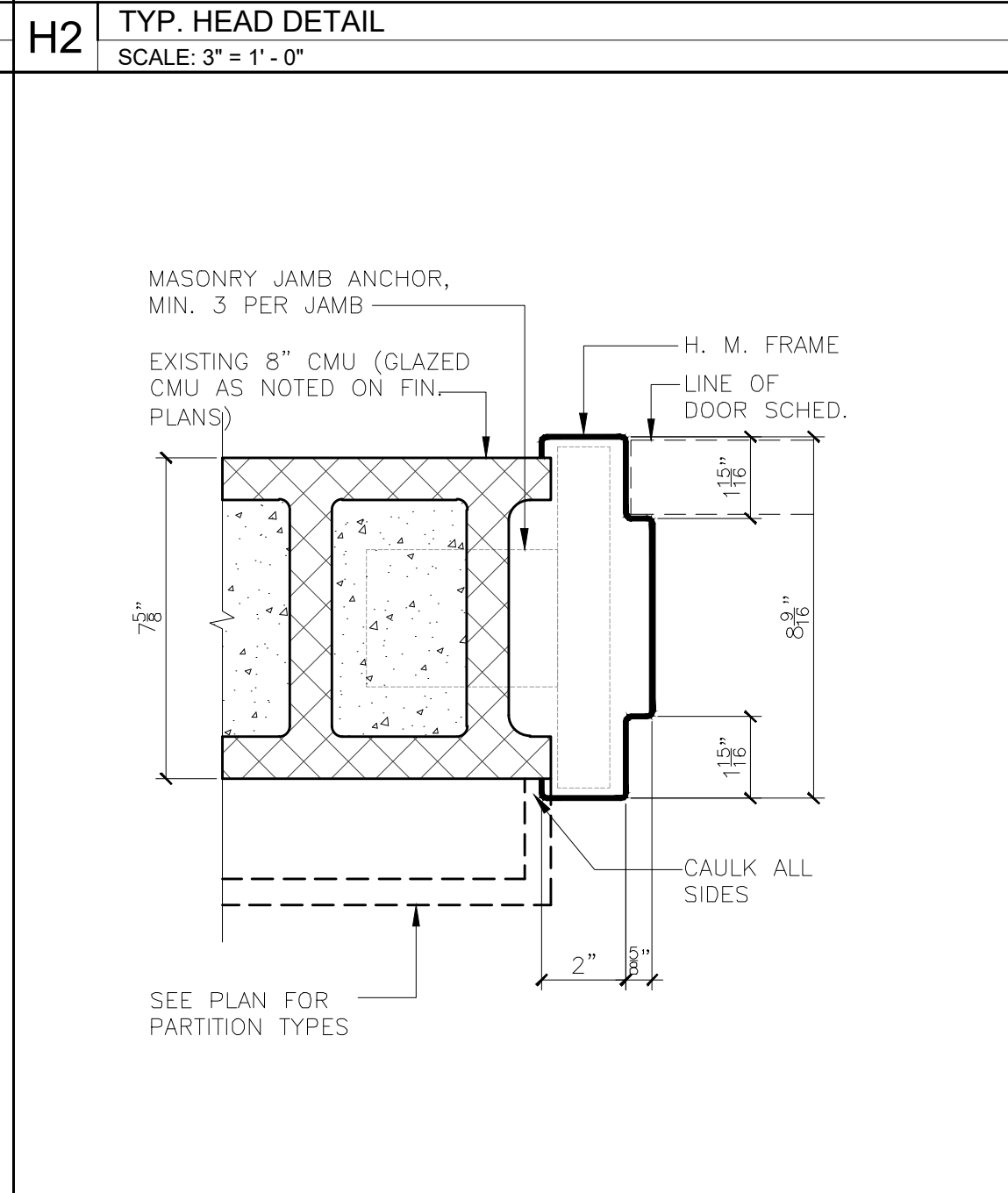
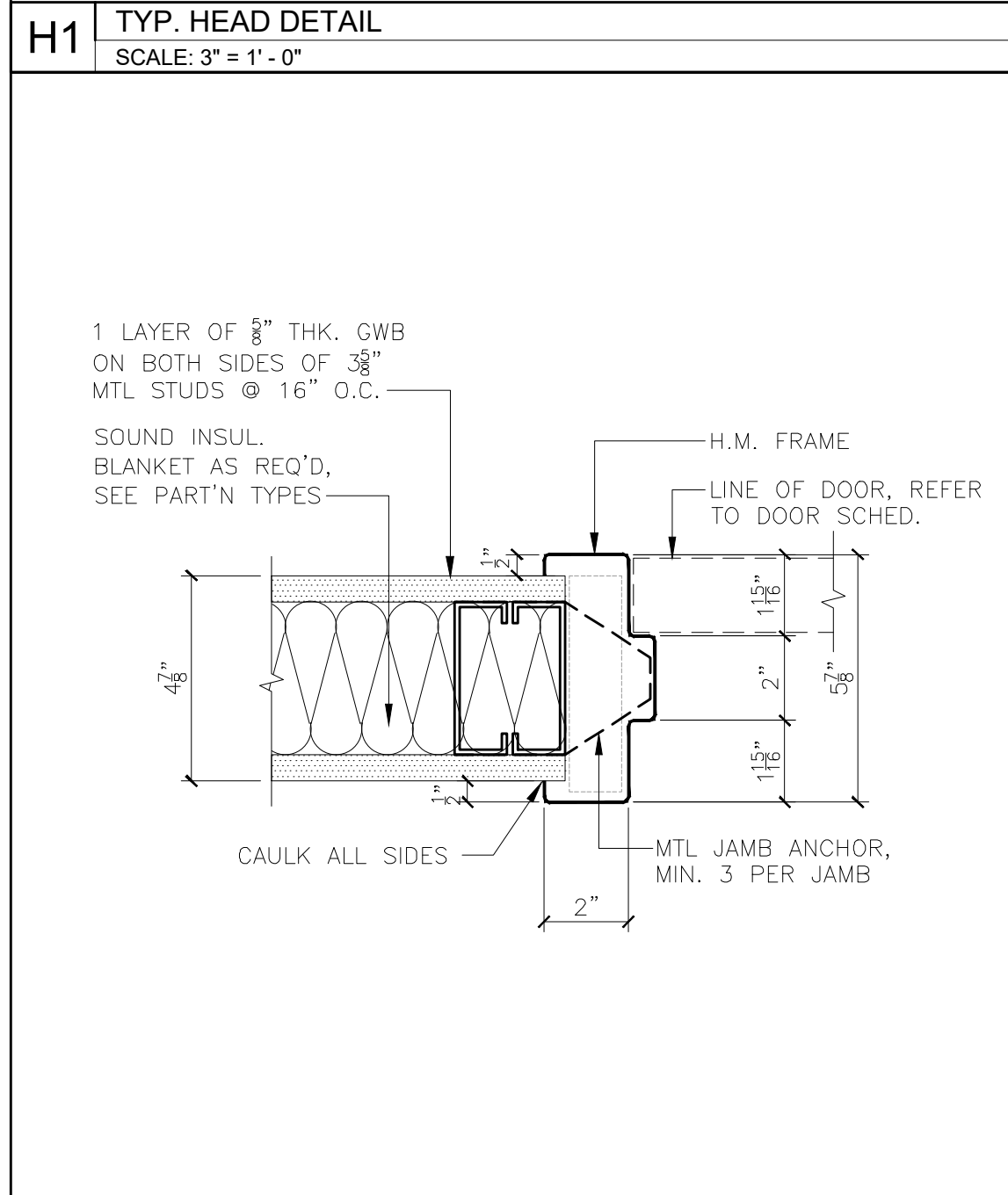
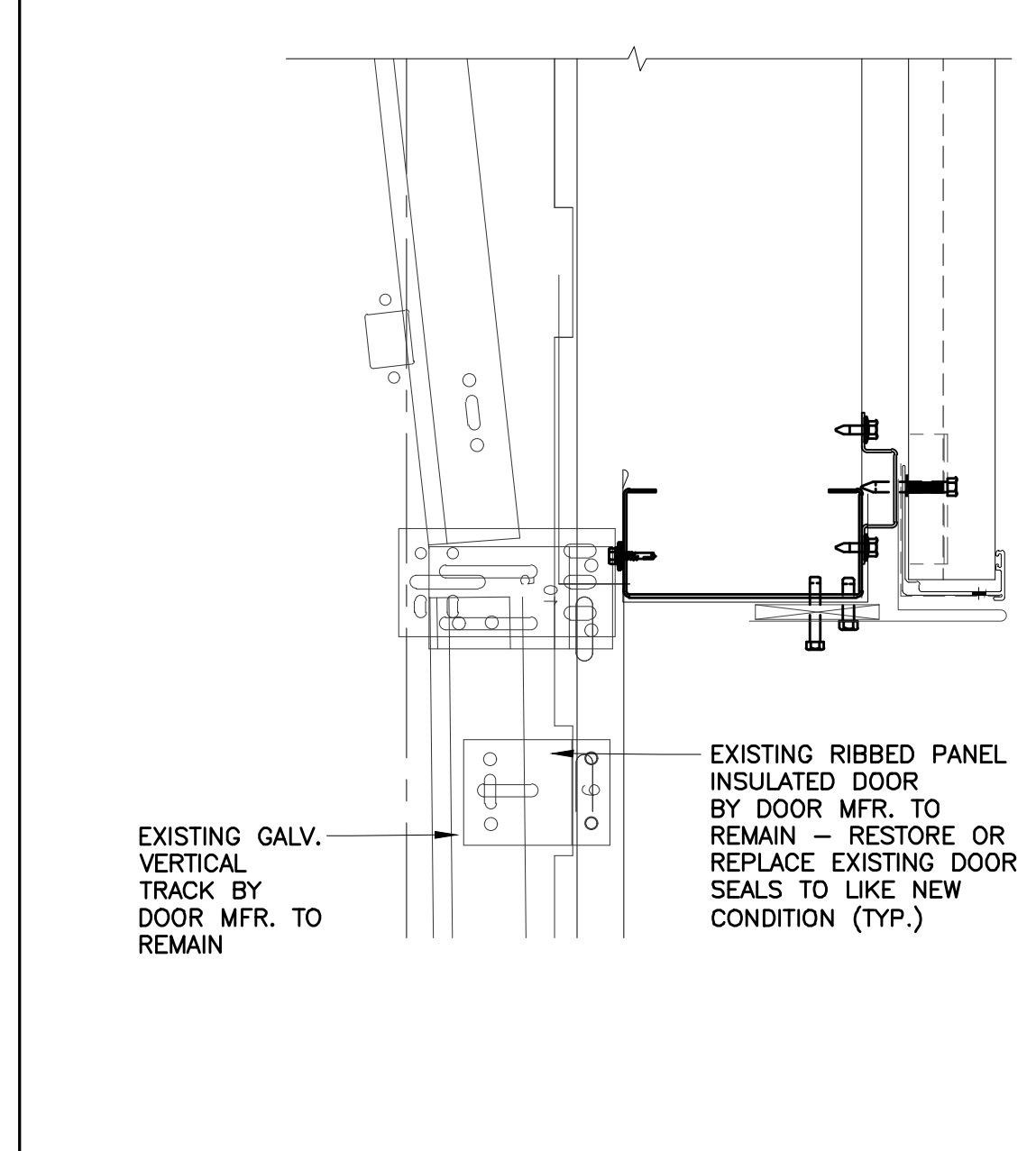
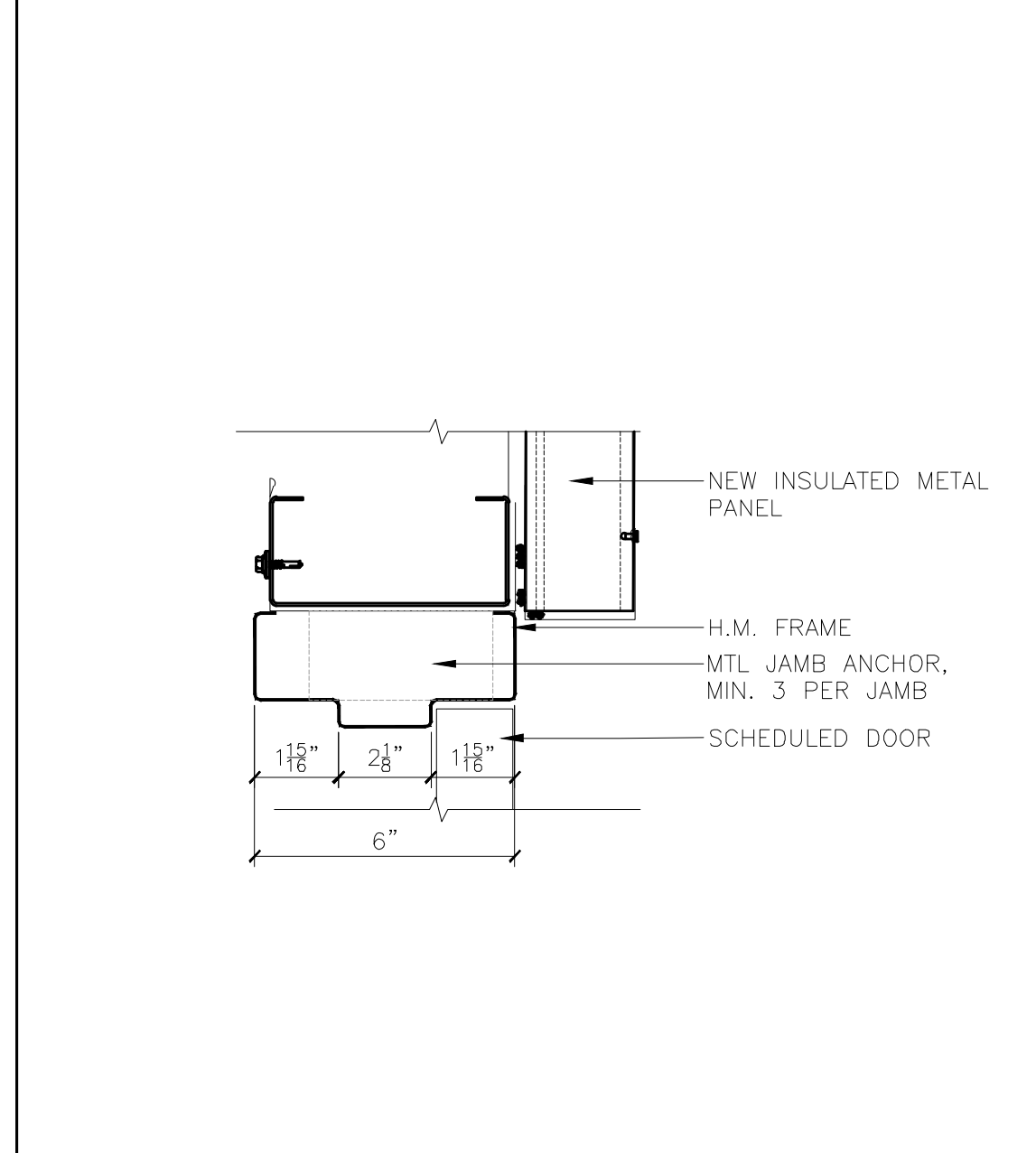
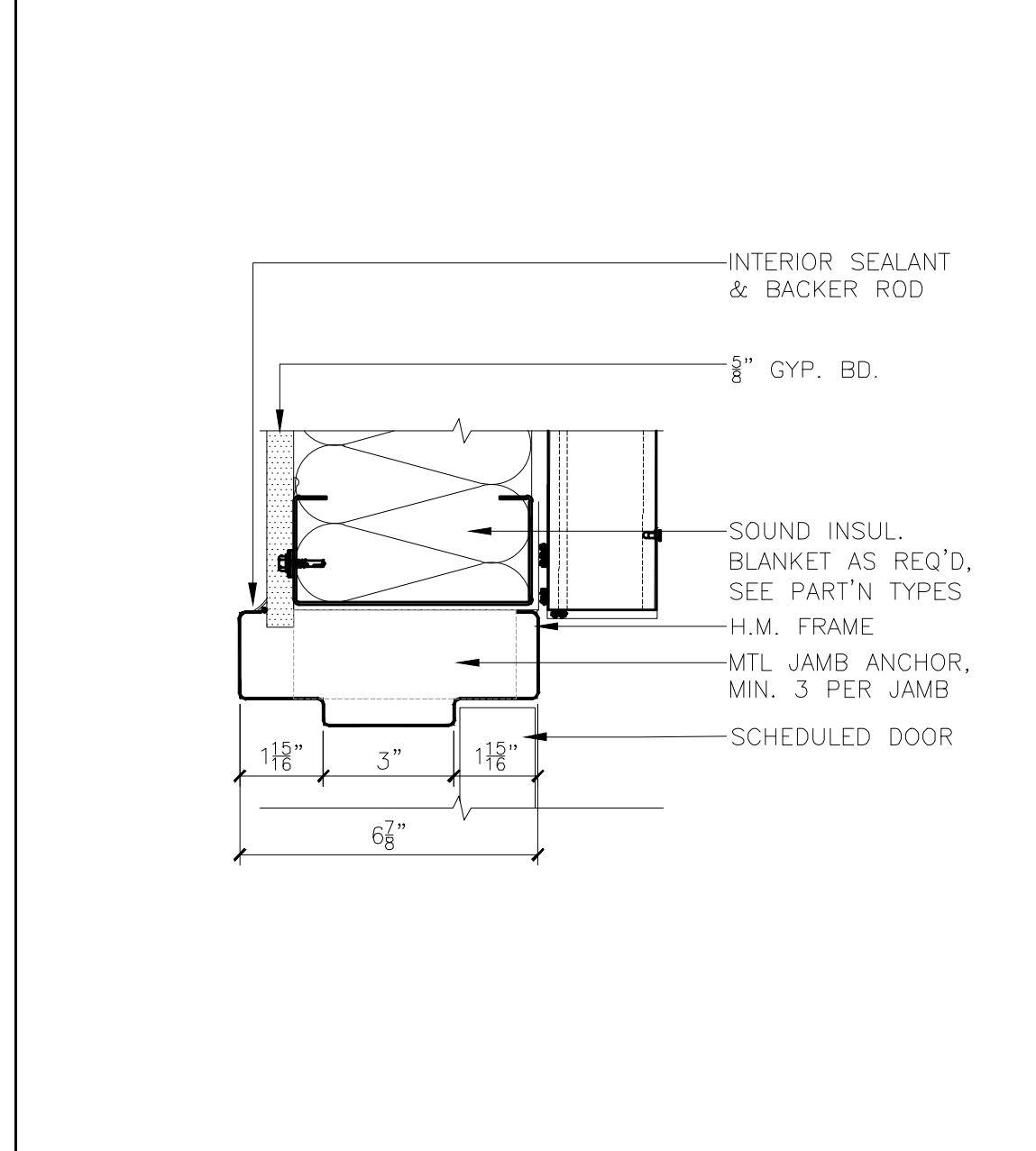
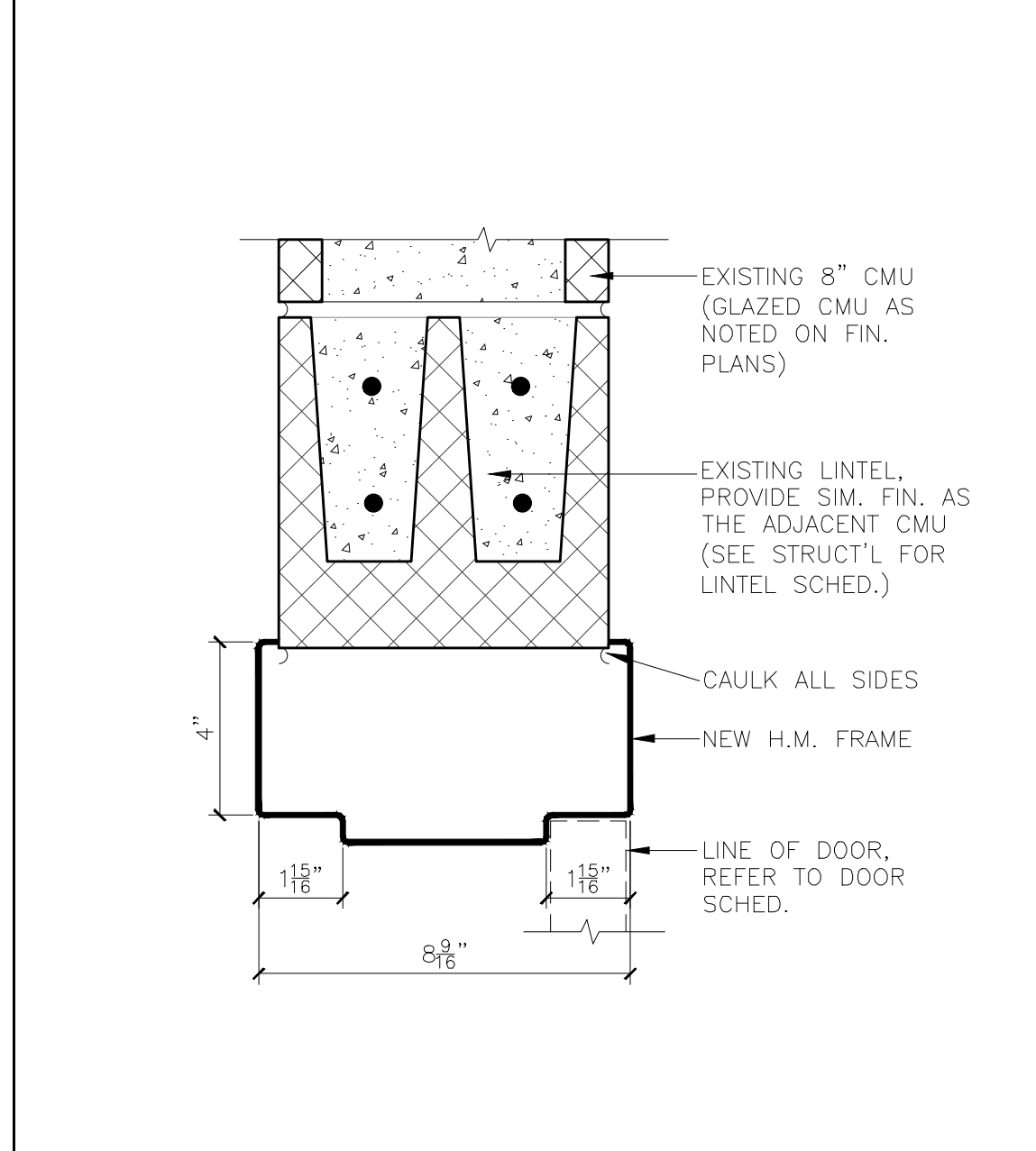
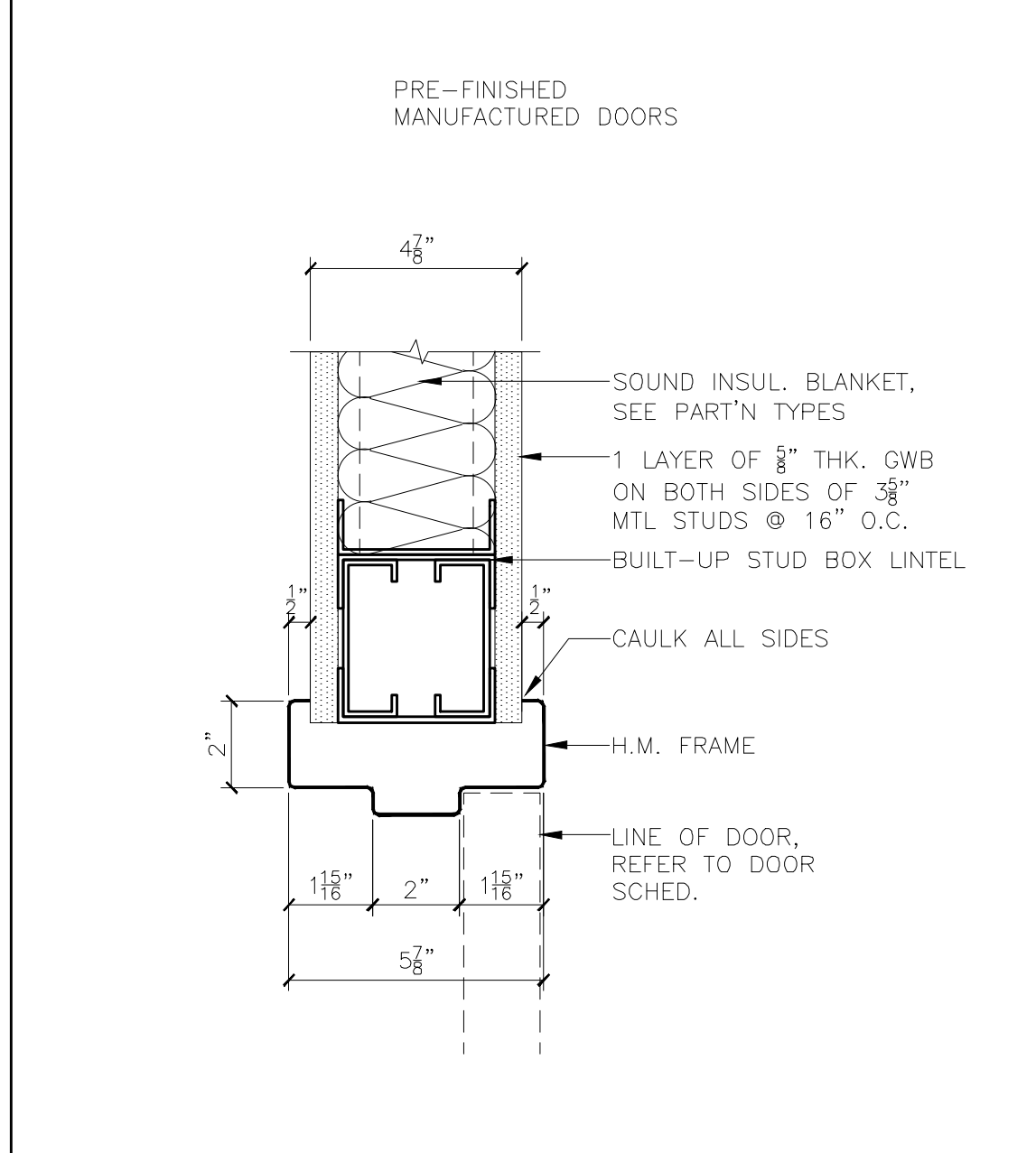
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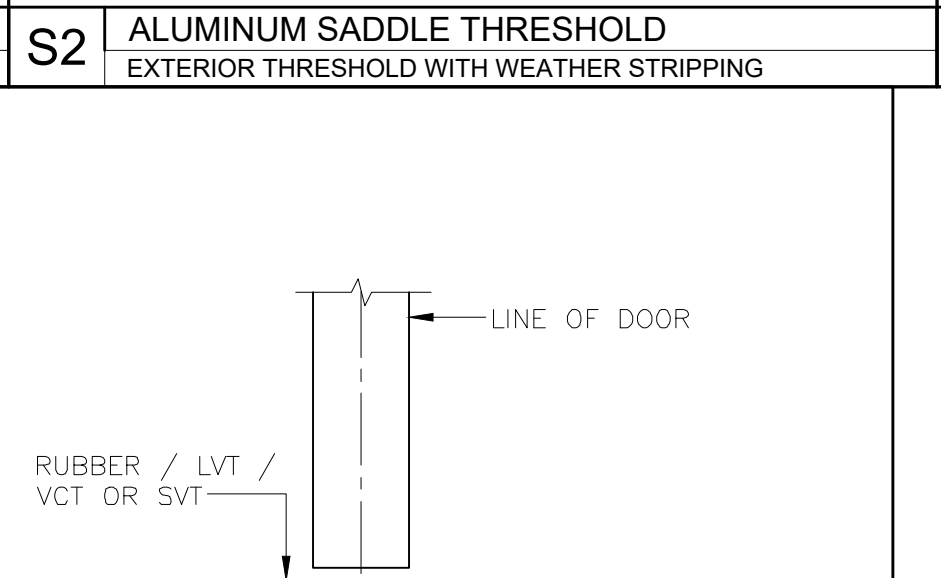
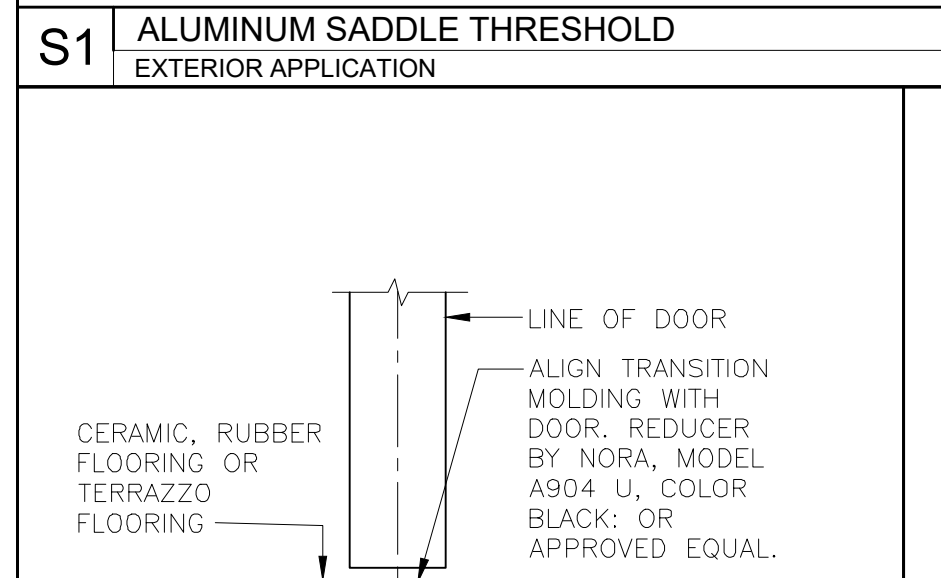
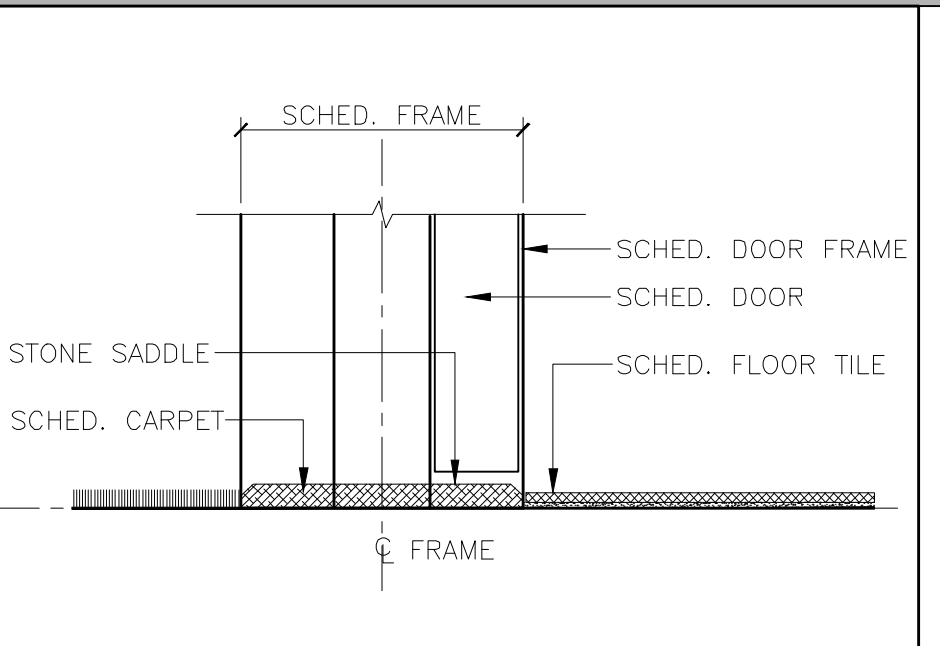
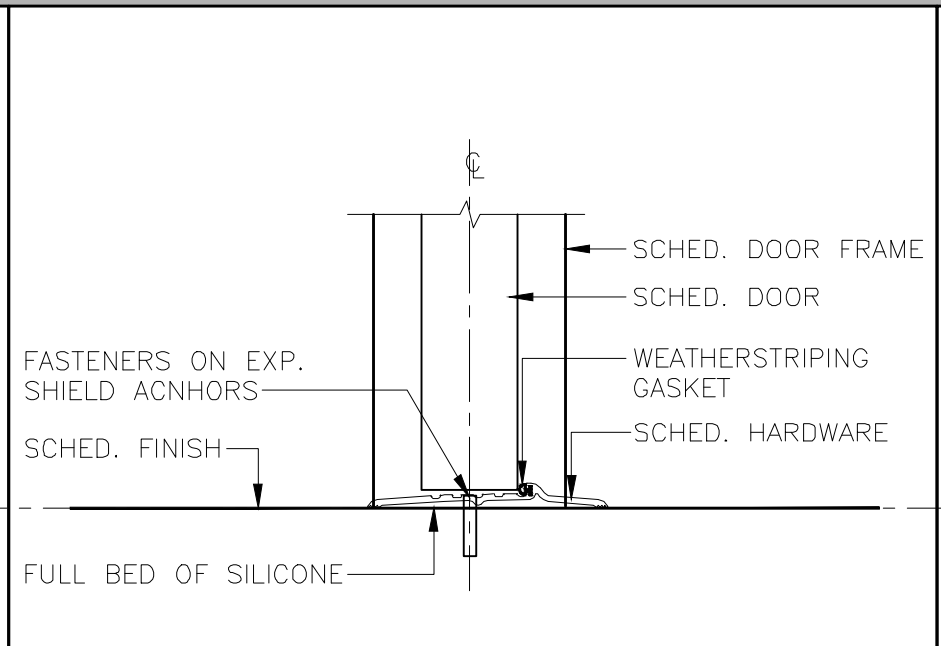
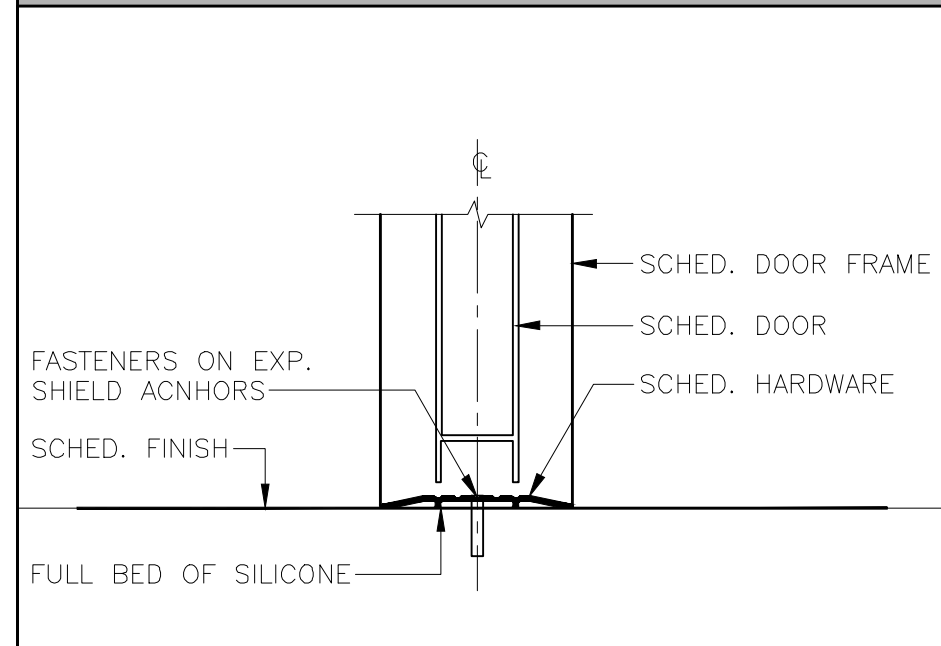
DATE	REVISIONS	BY	CHKD

Date: 04.09.24
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 Drawing No.:

DOOR DETAILS (SCALE: 3" = 1'-0")



DOOR SILL TYPE SCHEDULE (SCALE: 3" = 1'-0")

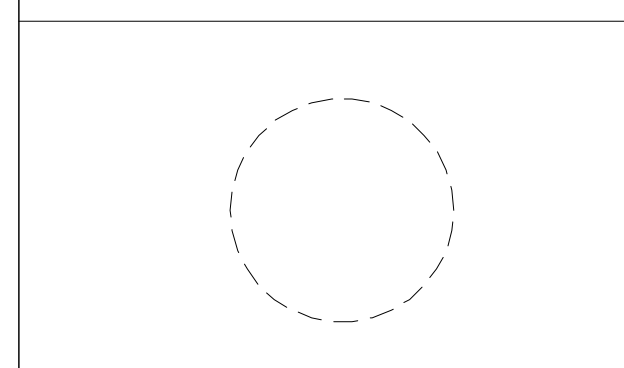


H6 HEAD DETAIL (OVERHEAD DOOR) EXTERIOR SCALE: 3" = 1'-0"

J6 JAMB DETAIL (OVERHEAD DOOR) EXTERIOR SCALE: 3" = 1'-0"

S4 RUBBER SADDLE CERAMIC OR RUBBER TO CONCRETE

S5 RUBBER TRANSITION RUBBER TO VCT / LVT / SVT



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DOOR DETAILS

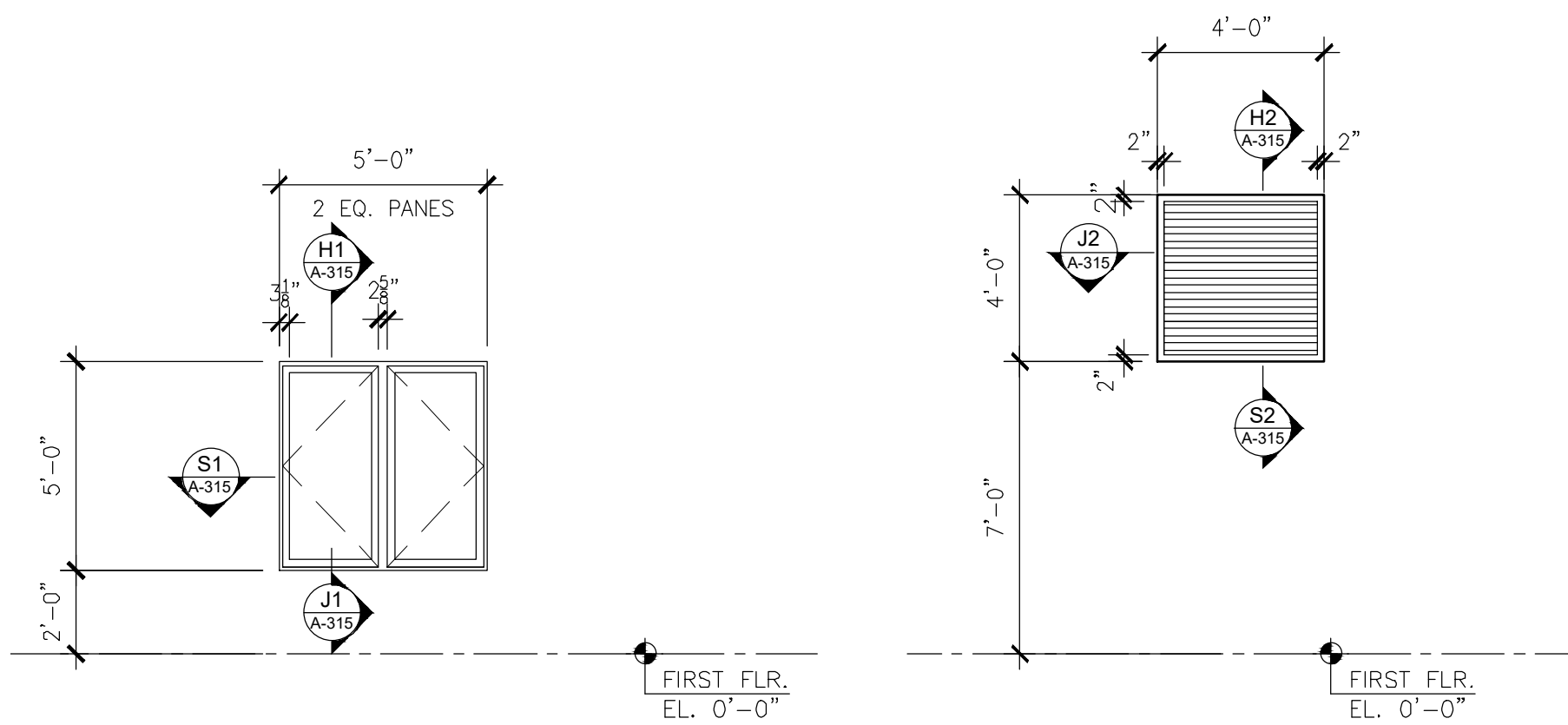
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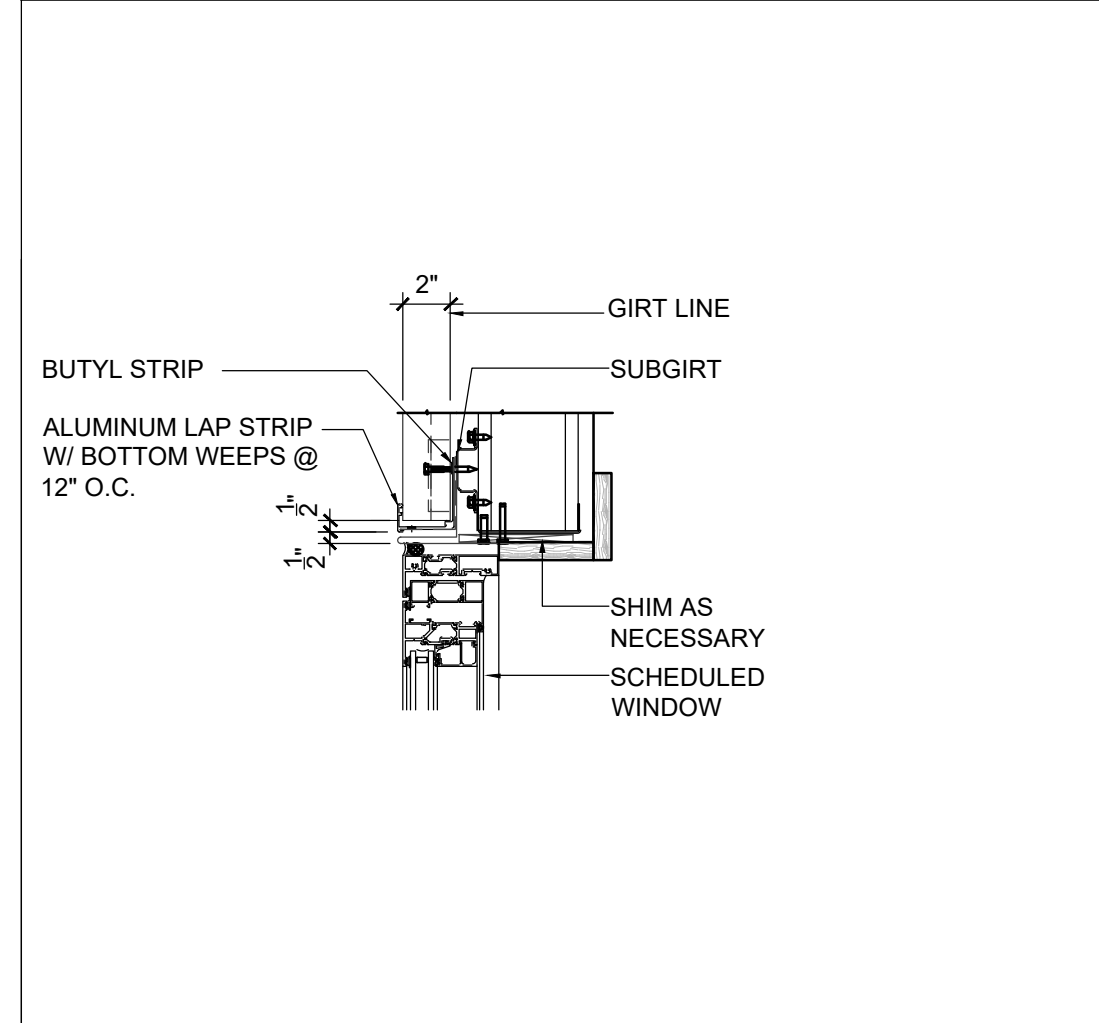


W1 EXTERIOR INSULATED ALUMINUM CASEMENT OUTSWING WINDOW
SCALE: 1/4" = 1'-0"
KAWNEER AA6400 OR APPROVED EQUAL

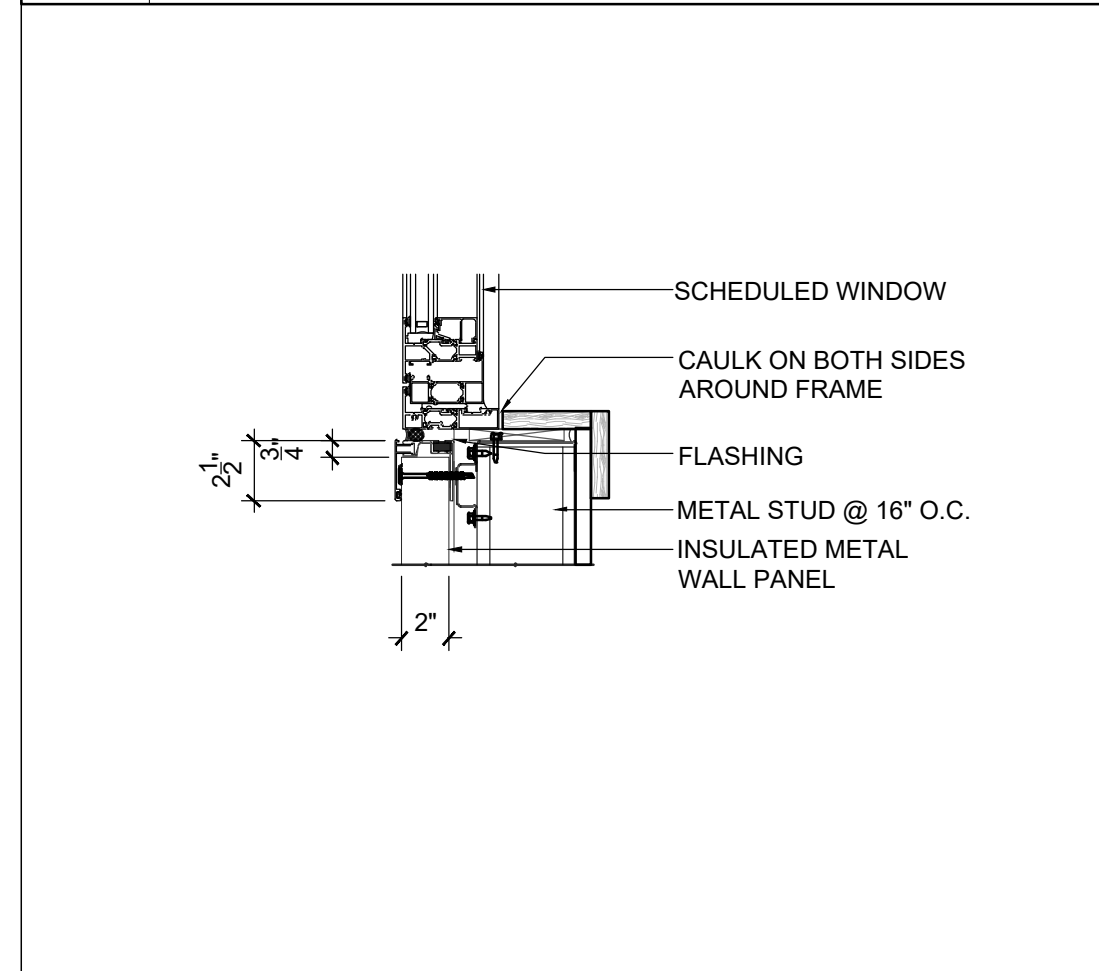
L2 ALUMINUM MECHANICAL LOUVER
SCALE: 1/4" = 1'-0"
PROVIDE ALUM. BIRD SCREEN

WINDOW DETAILS

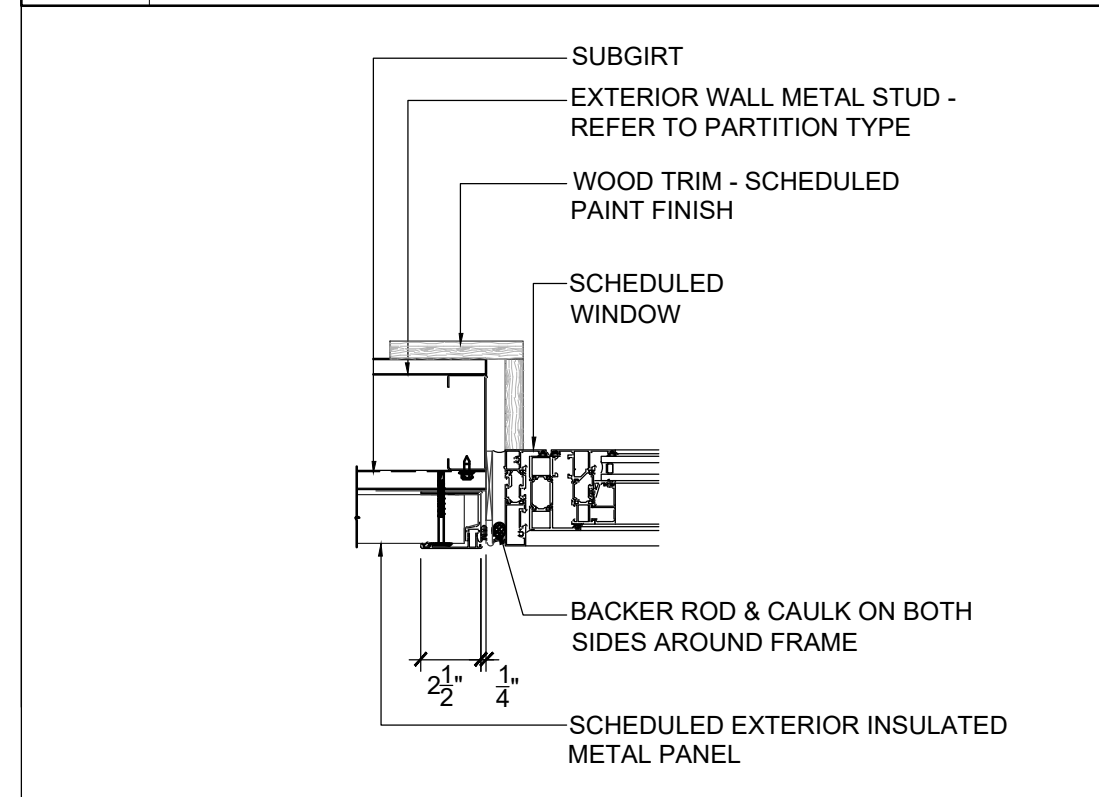
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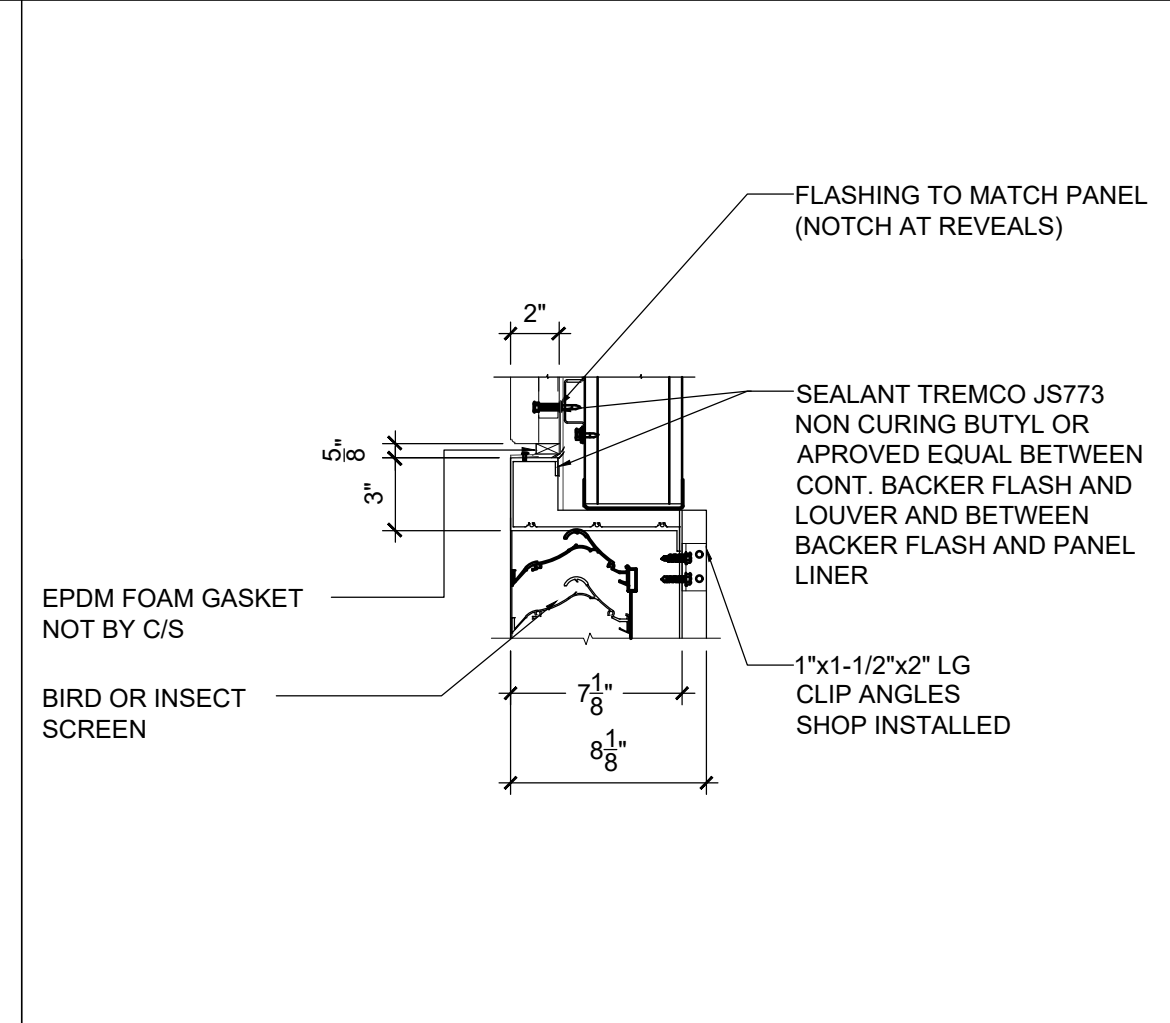
H1 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



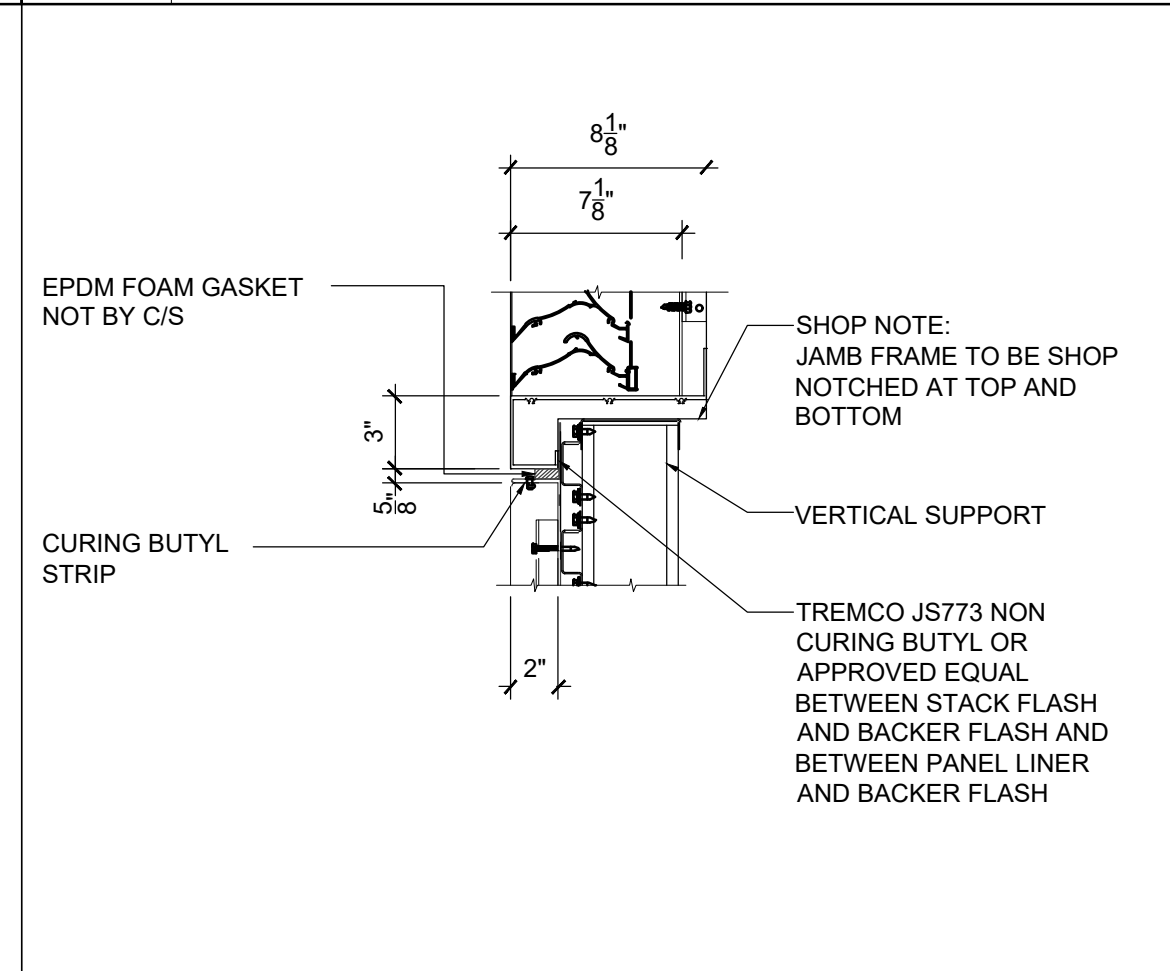
S1 SILL DETAIL
SCALE: 1 1/2" = 1'-0"



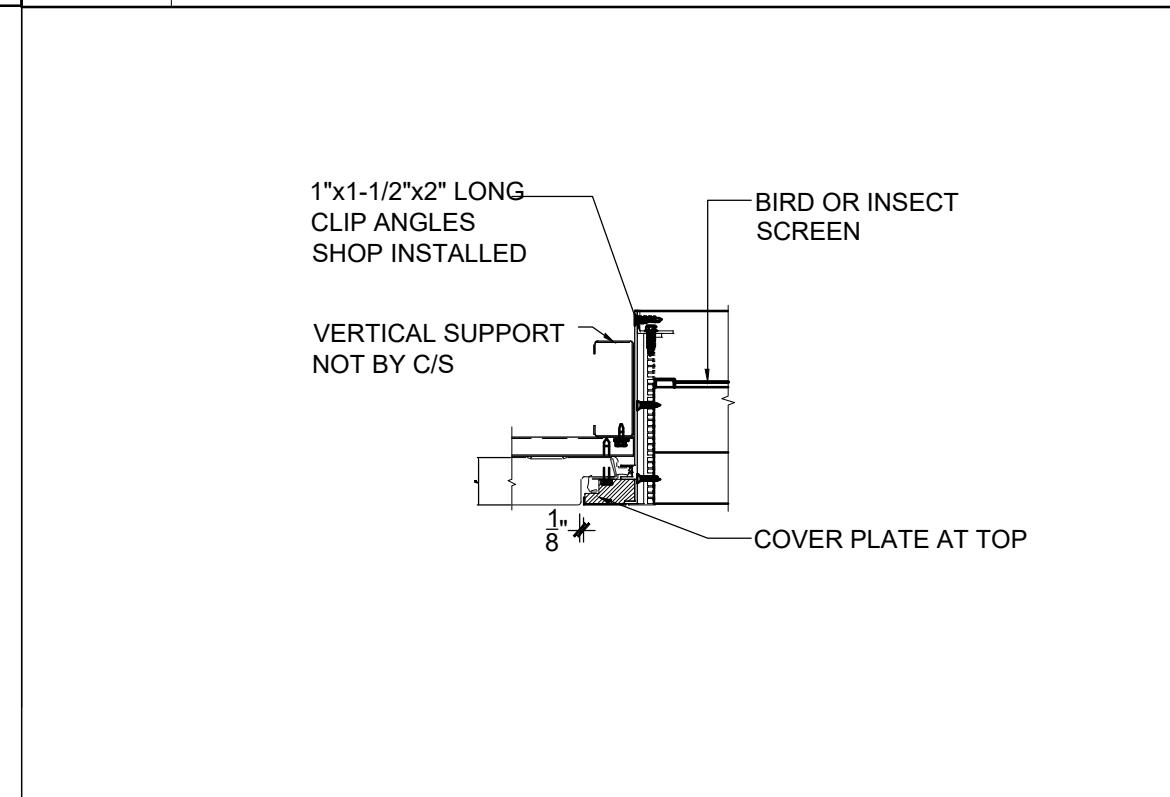
J1 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



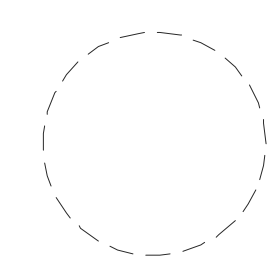
H2 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



S2 SILL DETAIL
SCALE: 1 1/2" = 1'-0"



J2 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



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SHEET CONTENTS:

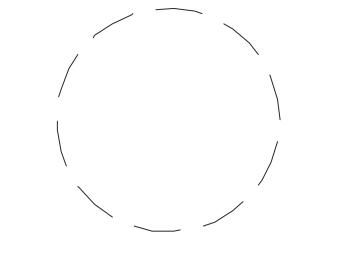
WINDOW TYPES & DETAILS

PROJECT TITLE:
ADDITIONS AND ALTERATIONS BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
2025.03.12 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	JT
Checked by	LU
Job No.	2241869
Drawing No.	



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SHEET CONTENTS:

ENLARGED TOILET PLANS & ELEVATIONS

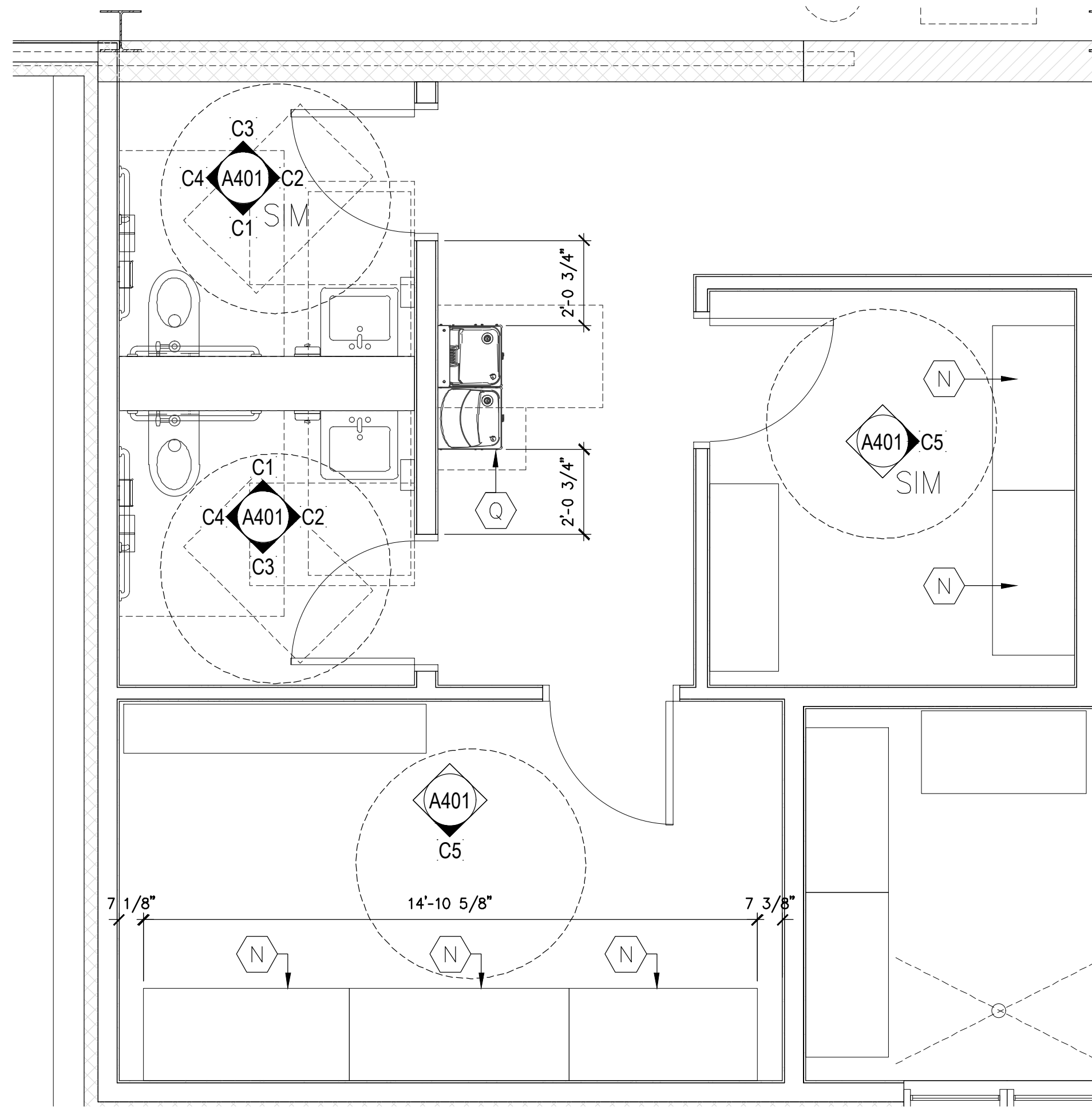
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 BURLINGTON COUNTY DEPT. OF
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A-401 ENLARGED TOILET RM & LOCKER RM. FLOOR PLAN
 SCALE: 3/8" = 1'-0"

BASIS OF DESIGN FOR TOILET ACCESSORIES					
ITEM	PRODUCT NAME	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
(A1)	TOILET PARTITIONS (TP1*)	FLOOR-MOUNTED OVERHEAD-BRACED	ASI		SEE FINISH SCHEDULE
(A2)	URINAL SCREENS (TP1*)	24"x55" WALL HUNG	ASI		SEE FINISH SCHEDULE
(A3)	LOCKER BENCHES	1 1/2" THK. X 12" X 5'-0" WIDE FIXED SOLID PLASTIC BENCHES TO MATCH COLOR OF LOCKERS	SCRANTON PRODUCTS		SEE FINISH SCHEDULE
(B1)	18" GRAB BARS	1 1/2" O.D. ST./STL. WITH CONCEALED MOUNTING	BOBRICK	B-5806 x 18	STAINLESS STL. SATIN FINISH
(B2)	36" GRAB BARS	1 1/2" O.D. ST./STL. WITH CONCEALED MOUNTING	BOBRICK	B-5806 x 36	STAINLESS STL. SATIN FINISH
(B3)	42" GRAB BARS	1 1/2" O.D. STAINLESS STL. WITH CONCEALED MOUNTING	BOBRICK	B-5806 x 42	STAINLESS STL. SATIN FINISH
(C)	TOILET TISSUE DISPENSER	SURFACE-MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER	BOBRICK	B-6867	STAINLESS STL. SATIN FINISH
(D)	PAPER TOWEL DISPENSER	SURFACE-MOUNTED DISPENSER & WASTE RECEPTACLE	BOBRICK	B-76867	STAINLESS STL. SATIN FINISH
(F)	WASTE RECEPTACLE	FLOOR STANDING WITH ST. STL. COVER	BOBRICK	B-2250	STAINLESS STL. SATIN FINISH
(G)	SOAP DISPENSER	AUTOMATIC WALL-MOUNTED SOAP DISPENSER	BOBRICK	B-2012	STAINLESS STL. SATIN FINISH
(J1)	MIRROR	TEMPERED GLASS W/ POLISH ST./STL. CHANNEL FRAME	BOBRICK	B-2908 18"x24"	*SEE WALL ELEVATIONS
(J2)	MIRROR	TEMPERED GLASS W/ POLISH ST./STL. CHANNEL FRAME	BOBRICK	B-2908 18"x24"	*SEE WALL ELEVATIONS
(L)	TOILET SEAT COVER DISPENSER	CenturaSeries® SURFACE-MOUNTED SEAT-COVER DISPENSER ST./STL.	BOBRICK	B-4221	SATIN FINISH, PROVIDED BY OWNER
(M)	TOILET SEAT	Stronghold COMMERCIAL HEAVY-DUTY TOILET SEAT	KOHLER	K-4731-C	WHITE
(N)	TWO (2) TIER LOCKERS	12"W x 12" D x 36" H HORIZONTAL TWO (2) TIER LOCKERS WITH IN-DOOR COMBINATION LOCKS, LOCKER BASE, LOUVERS & SLOPE TOP	SCRANTON PRODUCTS		SEE FINISH SCHEDULE
(Q)	BOTTLE FILLING STATION W/ FILTERED L2 COOLER	EZH20 BOTTLE FILLING STATION WITH FILTERED SINGLE L2 COOLER	ELKAY	LVRCTL8WSK	STAINLESS FINISH, TYPICAL FOR ALL DRINKING STATIONS

1. ALL ACCESSIBLE FACILITIES ON THESE PLANS HAVE BEEN DESIGNED TO MEET ALL STATE, COUNTY, AND MUNICIPALITY CODES APPLICABLE.

2. BUILDING ENTRANCE SHALL BE ON AN ACCESSIBLE ROUTE WITH NO CHANGE IN LEVEL OF MORE THAN 1/4" ALLOWING ROUTE AND MAXIMUM RISE CHANGE OF 3/4" AT SLIDING EXTERIOR DOORS ONLY.

3. ALL ENTRY DOORS IN UNITS SHALL PROVIDE A CLEAR OPENING OF 32" WIDE WHEN DOOR IS OPEN AT 90 DEGREES.

4. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS, AND OTHER ENVIRONMENTAL CONTROLS ARE TO BE LOCATED WITH OPERABLE PARTS NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FINISHED FLOOR. IF REACH IS OVER AN OBSTRUCTION, SUCH AS A CABINET, HEIGHT SHALL BE 48" FOR FORWARD APPROACH. OBSTRUCTIONS MAY NOT EXTEND MORE THAN 2" FROM WALL.

5. BATHROOMS SHALL BE PROVIDED WITH REINFORCEMENT IN WALLS TO ALLOW INSTALLATION OF GRAB BARS AROUND THE TOILET. SUCH REINFORCEMENT SHALL BE INSTALLED ACCORDING TO THE ILLUSTRATIONS. PARALLEL APPROACH BY A WHEELCHAIR MUST BE PROVIDED IN FRONT OF LAVATORIES. IF PARALLEL APPROACH IS NOT POSSIBLE, LAVATORY CABINET BASE MUST BE REMOVED TO ALLOW FORWARD APPROACH. CLEARANCE WHERE DOOR SWINGS INTO BATHROOM THERE MUST BE A CLEAR FLOOR SPACE OF 30" WIDE TO POSITION A WHEELCHAIR WITHIN BATHROOM.

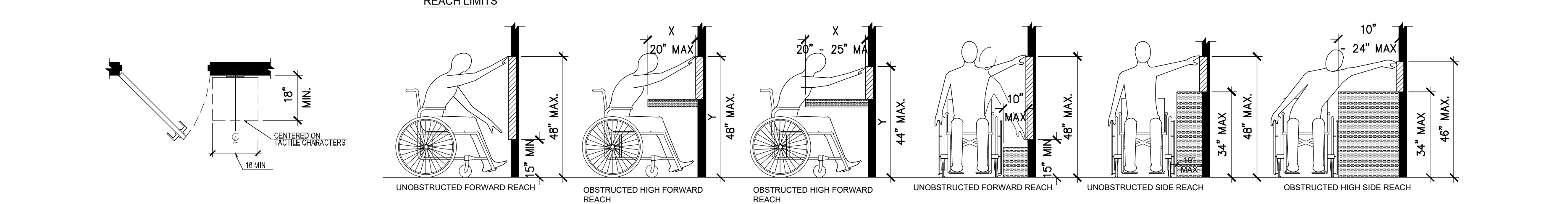
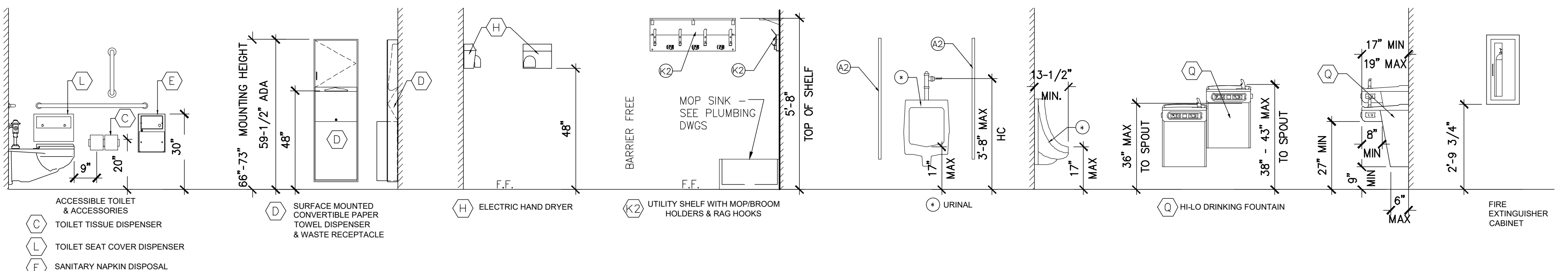
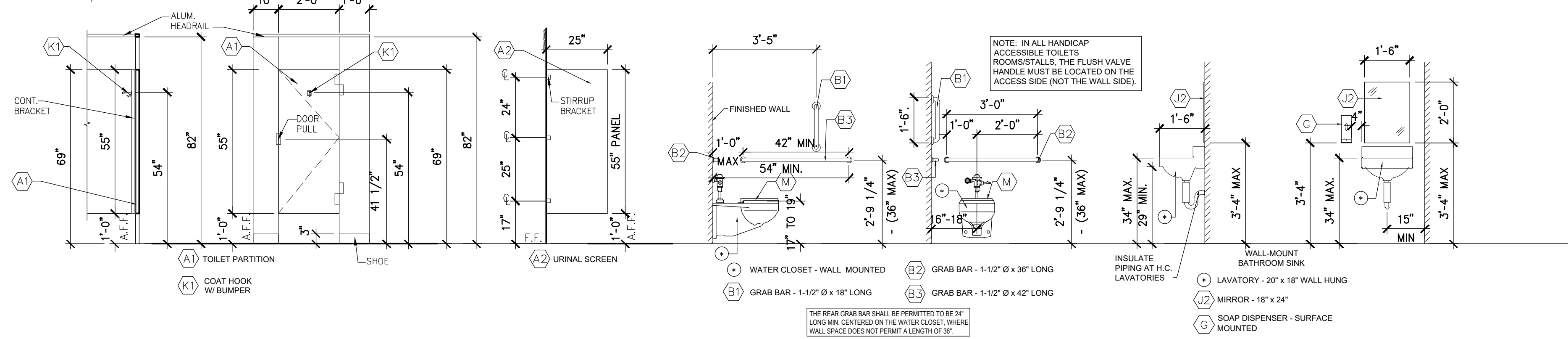
6. IN CASE OF THE FACT THAT ALL ACCESSIBILITY CHANGES AND IMPROVED DIFFERENCES BY OWNER WITHIN EACH TRADE'S JURISDICTION HAVE BEEN AUTHORIZED OVER THE SAME, AND THAT DESIGNING SUCH FACILITIES IS EMPHATICALLY THAT THE CODES AND THEIR INTERPRETATIONS CHANGE FREQUENTLY AND BEYOND THE CONTROL OF AN ARCHITECT. THIS NOTICE IS WRITING SHALL BE THE SUPPORT OF THE FINAL AUTHORITY REGARDING THE DESIGN. THE CONTRACTOR SHALL REVIEW ALL ACCESSIBLE FACILITIES SHOWN ON THESE PLANS WITH THE CONTRACTOR. IT SHALL BE RECOGNIZED THAT THE CONTRACTOR IS THE FINAL AUTHORITY REGARDING THE DESIGN. THE CONTRACTOR SHALL REVIEW ALL ACCESSIBLE FACILITIES SHOWN ON THESE PLANS WITH THE CONTRACTOR.

7. LAVATORY COUNTER TOP HEIGHT TO BE 34" A.F.F. WITH A MINIMUM CLEARANCE OF 30" A.F.F. TO THE BOTTOM OF THE APRON. ALL LAVATORIES TO HAVE SINKS.

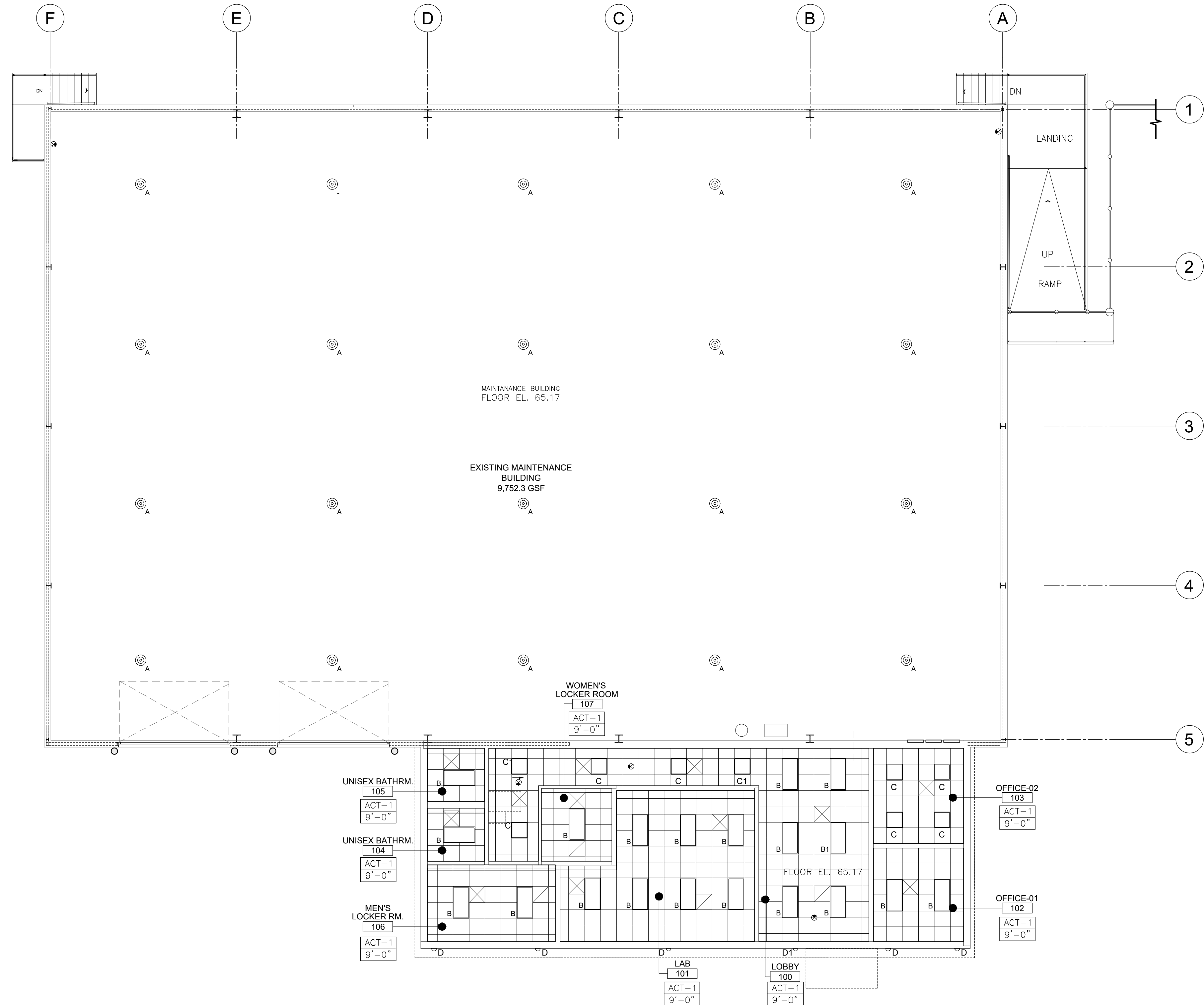
8. FACETS TO BE USER OPERATED FROM TYPE OR ELECTRONICALLY CONTROLLED. IF BELT-CLOSING VALVES ARE USED THE FACETS SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.

9. ALL ACCESSIBLE TOILET STALL DOORS MUST HAVE A SELF-CLOSING FEATURE OR PULL LATCH MOUNTED AT THE CENTER OF THE PARTITION DOOR.

STANDARD MOUNTING HEIGHT FOR TOILET ACCESSORIES
 SCALE: 3/8" = 1'-0"



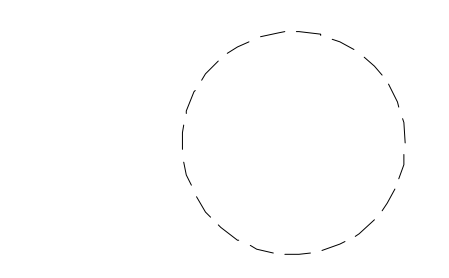
ENLARGED TOILET PLANS, ELEVATIONS, SCHEDULE & MOUNTING HEIGHTS
A-401



A REFLECTED CEILING PLAN
 A-601 SCALE: 1/8" = 1' - 0"

Symbol	Arrangement	Fixture Type	Fixture Description	Manufacturer	Catalog Number	CCT	LLF	Total Watts	Delivered Lumens	Filename
[Symbol]	Single	B	2X4 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT	NORA LIGHTING	NPDBLSW-E24-334-W	3500	0.900	33.26	4602	NPDBLSW-E24334W 36W 3500K_IES
[Symbol]	Single	B1	2X4 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT & BATTERY BACKUP	NORA LIGHTING	NPDBLSW-E24-334-W-EM	3500	0.900	33.26	4602	NPDBLSW-E24334W 36W 3500K_IES
[Symbol]	Single	C	2X2 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT	NORA LIGHTING	NPDBLSW-E22-334-W	3500	0.900	23.37	3127	NPDBLSW-E22334W 25W 3500K_IES
[Symbol]	Single	C1	2X2 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT & BATTERY BACKUP	NORA LIGHTING	NPDBLSW-E22-334-W-EM	3500	0.900	23.37	3127	NPDBLSW-E22334W 25W 3500K_IES
[Symbol]	Single	D	EXTERIOR SCONCE LIGHTING	COOPER LIGHTING	GAW-SA1C-740-U-5WQ-BK	4000		34	3880	
[Symbol]	Single	D1	EXTERIOR SCONCE LIGHTING W/ BATTERY BACKUP	COOPER LIGHTING	GAW-SA1C-740-U-5WQ-BK-CBP	4000		34	3880	
[Symbol]	Single	A	EXISTING LIGHTING FIXTURE TO REMAIN							
[Symbol]	Single	EX	TELESIS UNIVERSAL LED EDGELIT EXIT SIGN	EVENLITE	TEXZ-EM-R-URC			RED 2.6 Watts		

GENERAL NOTE: GC TO INSTALL MANUAL ON OCCUPANCY SENSORS IN ROOMS IN ADDITION TO MANUAL WALL SWITCHES. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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REFLECTED CEILING PLAN

PROJECT TITLE:

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 BURLINGTON COUNTY DEPT. OF
 PUBLIC WORKS
 10 HARTFORD ROAD, DELTRAN TWP.
 BURLINGTON CO. NJ**

SUBMISSION:
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DATE	REVISIONS	BY	CHKD

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 Drawn by: JT
 Checked by: LU
 Job No.: 2241869
 Drawing No.:

A-601

GENERAL NOTES

DESIGN CRITERIA

1. LIVE LOAD:
 - A. ROOF LIVE LOAD 20 PSF
 - B. FLOOR LIVE LOAD 150 PSF
2. DEAD LOAD:
 - A. STRUCTURAL AND BUILDING COMPONENTS SELF WEIGHT
3. WIND LOADING PER IBC 2021 – NEW JERSEY EDITION:
 - A. BASIC WIND VELOCITY (V): 126 MPH
 - B. EXPOSURE CATEGORY: C
 - C. RISK CATEGORY: III
4. SEISMIC LOADING PER IBC 2021 – NEW JERSEY EDITION:
 - A. RESPONSE ACCELERATOR:
 $S_s = 0.185$ $S_{pg} = 0.197$
 $S_1 = 0.048$ $S_{m1} = 0.076$
 - B. SEISMIC DESIGN CATEGORY: B
 - C. SEISMIC SITE CLASSIFICATION: D
 - D. IMPORTANCE FACTOR I_e : 1.25
5. SNOW LOADING PER IBC 2021 – NEW JERSEY EDITION:
 - A. GROUND SNOW LOAD: 25 PSF
 - B. IMPORTANCE FACTOR: 1.1
6. SPECIAL LOADS:
 - A. HANDRAILS/GUARDRAILS: IN COMPLIANCE WITH THE PROVISIONS OF IBC 2021 – NEW JERSEY EDITION SEE PROJECT SPECIFICATIONS.

FOUNDATIONS

1. ALL EXISTING FILL MATERIALS, CONSISTING OF GRAVEL, BRICK FRAGMENTS, CONCRETE CHIPS, WOOD CHIPS, AND DEMOLITION DEBRIS SHALL BE REMOVED IN THE REGIONS OF ALL FOUNDATIONS AND UNDER AREAS OF SLAB-ON-GRADE.
2. THE SLAB ON GRADE SHALL REST ON A MINIMUM OF 6 INCHES OF COMPACTED GRANULAR FILL.
3. PROOF ROLL SLAB SUBGRADE UNDER THE DIRECTION OF THE INSPECTION AGENCY. REMOVE ALL UNSUITABLE AREAS AND REPLACE WITH COMPACTED STRUCTURAL FILL MATERIALS. COMPACT FILL TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE ASTM D 1557 MODIFIED PROCTOR TEST.
4. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
5. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
6. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'-6" FROM OTHER SIDE.
7. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
8. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATION CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
 - A. FOOTINGS 4,000 PSI
 - B. WALLS AND PIERS 4,000 PSI
 - C. SLAB-ON-GRADE 4,000 PSI
2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
5. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES PLUS 2 INCHES, UNLESS NOTED OTHERWISE.
6. FOR ALL SLABS ON GRADE WHERE NOT OTHERWISE SPECIFIED, USE 6x6-W2.9xW2.9 W.W.F.
7. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 1-INCH FOR INTERIOR FACE OF WALLS, 2 INCHES FOR EXTERIOR FACE OF WALLS, 3 INCHES FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND, 2 INCHES FOR CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER.
8. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
9. NO CONCRETE SHALL BE PLACED IN WATER.
10. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN ON OR AS REQUIRED BY VARIOUS TRADES.
11. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

SUPERSTRUCTURE CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
 - A. COLUMNS 4,000 PSI
 - B. SLABS, BEAM 4,000 PSI
 - C. WALLS 4,000 PSI
2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 3/4-INCH FOR SLABS, 1-INCH FOR INTERIOR FACE OF WALLS, 2-INCH FOR EXTERIOR FACE OF WALLS, 1 1/2-INCH FOR BEAM STIRRUPS AND COLUMN TIES, 2-INCH FOR VERTICAL COLUMN REINFORCING.
5. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
6. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER. NO SLEEVES SHALL BE PLACED HORIZONTALLY OR VERTICALLY IN BEAMS OR JOISTS, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER.
7. CONTRACTOR SHALL SUBMIT A COORDINATED DRAWING SHOWING ALL SLEEVES, OPENINGS, BLOCKOUTS, ETC., AS REQUIRED BY ALL TRADES, FOR APPROVAL, PRIOR TO PLACING CONCRETE IN THAT AREA.
8. ALL SLABS SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN HEREIN OR ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
10. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
11. FOR ALL SLABS WHERE NOT OTHERWISE SPECIFIED USE STYLE 6x6-W2.9xW2.9 W.W.F.
12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
13. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.

MASONRY

1. HOLLOW CONCRETE MASONRY UNITS ASTM C90, GRADE N, TYPE 1 NORMAL WEIGHT 1900 PSI NET AREA COMPRESSIVE.
2. MORTAR SHALL BE ASTM C270, TYPE S FOR ALL REINFORCED MASONRY, EXTERIOR WALLS AND WALLS BELOW GRADE.
3. GROUT SHALL BE ASTM C476, 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
4. REINFORCING STEEL GRADE 60 REINFORCING BARS.
5. HORIZONTAL JOINT REINFORCEMENT ASTM A951.
6. STRENGTH OF MASONRY ASSEMBLY $f_m = 1,500$ PSI.
7. CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS FOR MASONRY STRUCTURES, ACI 530.1
8. REINFORCING METAL TIES AND ANCHORS SHALL BE PROTECTED FROM CONTACT WITH SOIL AND BEFORE BEING PLACED SHALL BE FREE FROM LOOSE RUST AND OTHER COATINGS THAT WILL DESTROY OR REDUCE THE BOND. MINIMUM LAP SHALL BE 48 BAR DIAMETERS FOR REBAR AND 6" FOR JOINT REINFORCEMENT.
9. SHOP DRAWINGS SHOWING ALL BAR REINFORCING IN ELEVATION (1/8" TO 1'-0" MINIMUM SCALE) SHALL BE SUBMITTED AND REVIEWED PRIOR TO CONSTRUCTION.
10. ALL MASONRY WALLS TO HAVE 9 GAGE TRUSS TYPE HORIZONTAL REINFORCEMENT AT 16 INCHES ON CENTER.
11. MASONRY UNITS SHALL BE STEAM CURED, A MINIMUM OF 28 DAYS AT THE TIME OF DELIVERY AND CONTINUOUSLY PROTECTED FROM EXPOSURE TO RAIN OR OTHER SOURCES OF WATER FROM TIME OF CASTING TO FINAL PLACEMENT IN WALL. MASONRY UNITS SHALL BE DRY, FREE FROM SOIL, ICE AND FROST WHEN LAID IN WALL. SEE ACI 530.1 FOR COLD AND HOT WEATHER CONSTRUCTION AND WALL PROTECTION REQUIREMENTS.

LIGHT GAGE METAL FRAMING

1. ALL GALVANIZED MATERIAL SHALL CONFORM TO THE FOLLOWING:
 - A. STUDS AND JOISTS OF 12, 14, AND 16 GAGE: ASTM A 446, GRADE D, F_y=50,000 PSI MINIMUM
 - B. STUDS AND JOISTS OF 18 AND 20 GAGE, TRACKS, BRIDGING, AND ACCESSORIES: ASTM 446, GRADE A, F_y=33,000 PSI MINIMUM.
2. ALL GALVANIZED MATERIAL SHALL BE FORMED FROM STEEL HAVING A MINIMUM G-60 GALVANIZED COATING CONFORMING TO ASTM A 525.

WOOD FRAMING

1. PROVIDE ALL WOOD FRAMING MATERIALS AS SHOWN ON THE PLANS FOR COMPLETE CONSTRUCTION.
2. PROVIDE ALL MISCELLANEOUS WOOD FRAMING AND/OR BRACING AS REQUIRED FOR SUPPORT OF MECHANICAL, ELECTRICAL, PLUMBING OR MISCELLANEOUS APPURTENANCES.
3. ALL WOOD SHALL BE MINIMUM OF GRADE NO. 2 OR BETTER UNLESS OTHERWISE SHOWN.
4. ALL ROOF SHEATHING SHALL BE INSTALLED WITH PANEL CLIPS.
5. PRE-MANUFACTURED WOOD ROOF TRUSSES SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS TO MEET REQUIRED OPENINGS FOR MISCELLANEOUS EQUIPMENT. TRUSS MANUFACTURER SHALL SUBMIT DESIGN DRAWINGS AND CALCULATIONS THAT COMPLY WITH REQUIRED DESIGN LOADS FOR APPROVAL PRIOR TO CONSTRUCTION PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY LICENSED NEW JERSEY PROFESSIONAL ENGINEER.

DEMOLITION NOTES

1. REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE SECTIONS AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
2. EXISTING STRUCTURAL STEEL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
3. CONCRETE ENCASUREMENT AROUND REMAINING STEEL WILL REMAIN, UNLESS NOTED OTHERWISE.
4. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ENGINEER BEFORE PROCEEDING WITH DEMOLITION.

EXISTING CONSTRUCTION

1. ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER.

MISCELLANEOUS

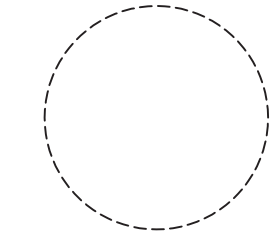
1. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONDITIONS NOT AS ASSUMED; HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR SAME.
2. CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION, AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCE SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. GENERAL CONTRACTOR TO PROVIDE APPROPRIATE NUMBER OF COPIES OF ONE COMPLETE COORDINATED DRAWING SHOWING ALL SLEEVES, CONDUIT BOXOUT, DUCT OPENINGS, ETC. AS REQUIRED FOR ALL TRADES FOR ENGINEER'S APPROVAL. THIS SHALL BE DONE A MINIMUM OF TWO WEEKS PRIOR TO POURING AFFECTED SLABS, COLUMNS, OR FOOTINGS.
5. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR OTHER APPROVAL FROM THE ENGINEER.
6. SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION OF MANUFACTURER. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT AND SHALL PROVIDE ANY ADDITIONAL REQUIRED FRAMING.

ABBREVIATIONS

E.F.	EACH FACE
WF1	WALL FOOTING
CMU	CONCRETE MASONRY UNIT
V.I.F.	VERIFY IN THE FIELD
O.C.	ON CENTER
E.W.	EACH WAY
T&B	TOP & BOTTOM
AL	ALUMINUM
CS	CARBON STEEL
SS	STAINLESS STEEL
CL	CENTER LINE
GALV.	GALVANIZED
T.O.M.	TOP OF MASONRY

STRUCTURAL DRAWING LIST

DRAWING #	DRAWING TITLE
S-100	STRUCTURAL COVER SHEET
S-101	FOUNDATION PLAN
S-102	TOP OF SLAB PLAN
S-103	LINTEL PLAN
S-104	ROOF FRAMING PLAN
S-201	STRUCTURAL COVER SHEET



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SHEET CONTENTS:

STRUCTURAL COVER SHEET

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	
Drawn by	J.G.
Checked by	
Job No.	2241869
Drawing No.	

S-100

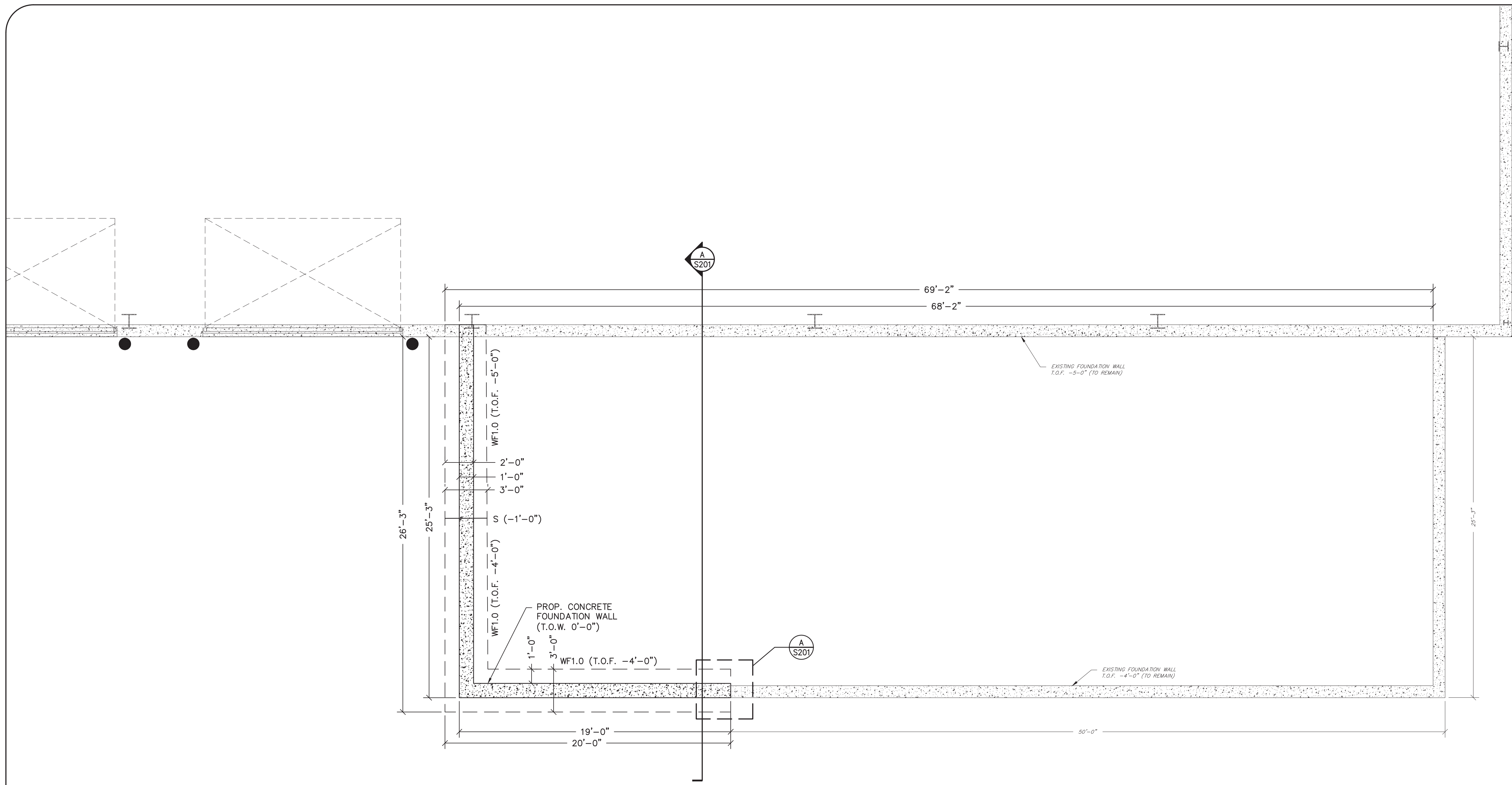
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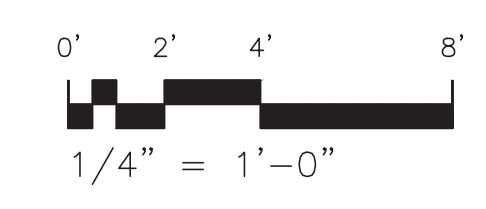
FOUNDATION FLOOR PLAN
SCALE: 1/4"=1'-0"

(---) INDICATES T/FTG. EL. SUBTRACTED FROM F.F.,
T/F.F. @ EL. 0'-0" (= XX.XX ON CIVIL DRAWINGS)

SECTIONS SHOWN IN PLAN APPLY TO SIMILAR
CONDITIONS THROUGHOUT THE BLDG.

NOTE:
ALL EXISTING FOOTING ELEVATIONS TAKEN FROM TEST
PIT ANALYSIS AND MEMORANDUM DATED 6-11-2024.
CONTRACTOR SHALL VERIFY IN FIELD AT CONNECTION
POINTS.

WALL FOOTING SCHEDULE	
WF10	
3'-0"W x 1'-0" THICK	
W/#5@12" O.C., T&B,	
& #5@12" O.C. T&B CONTINUOUS	



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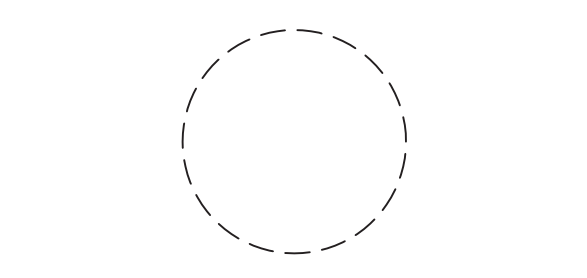
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DATE: **03-12-2025**
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SHEET CONTENTS:

FOUNDATION PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

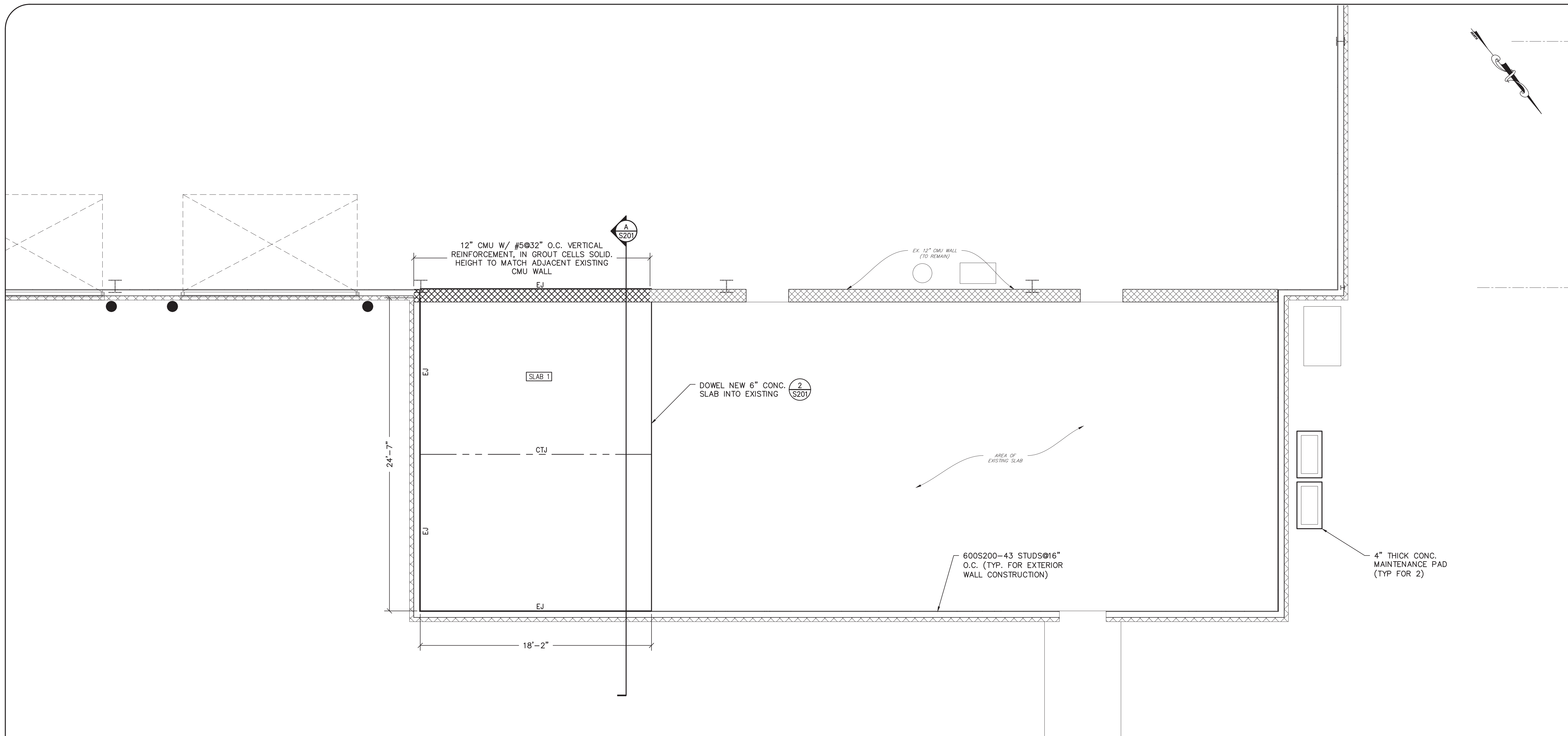
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DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	
Drawn by	J.G.
Checked by	
Job No.	2241869

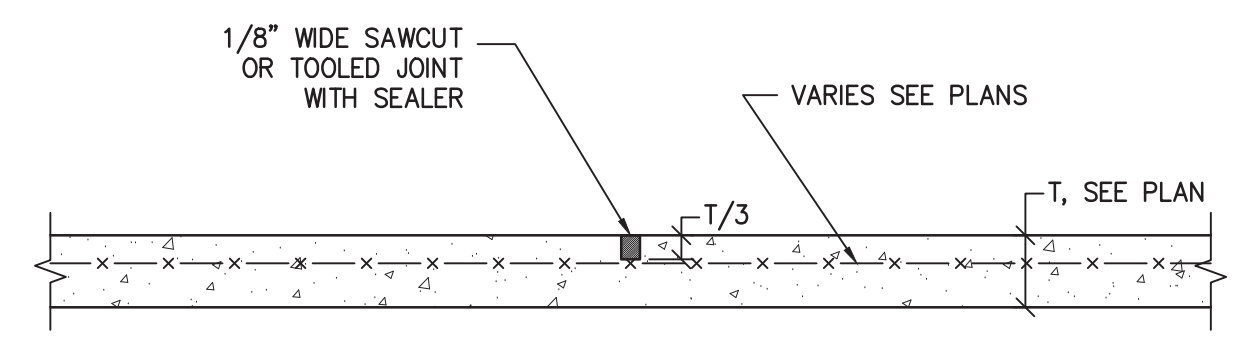
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S-101

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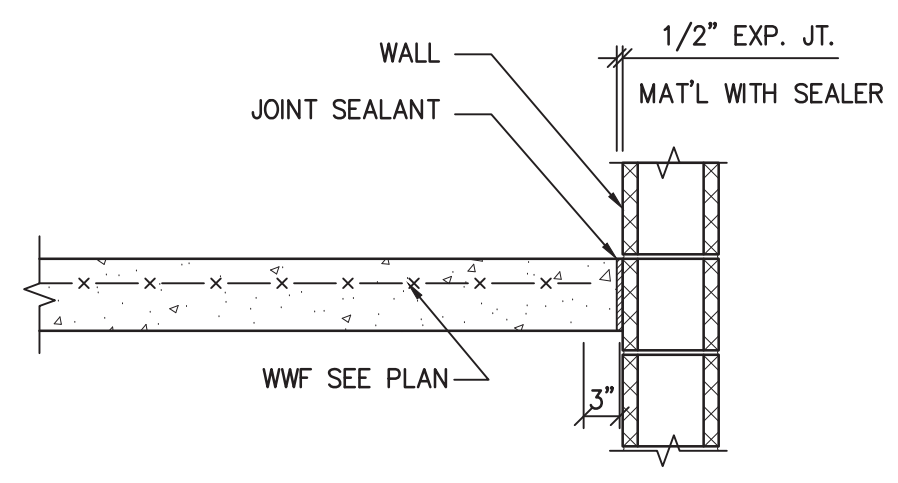


TOP SLAB PLAN
SCALE: 1/4"=1'-0"

SLAB ON GRADE SCHEDULE	
SLAB-1	6" THICK S.O.G. W/ #5@12 O.C., E.W. W/ 6" CRUSHED STONE AND 10 MIL. VAPOR BARRIER

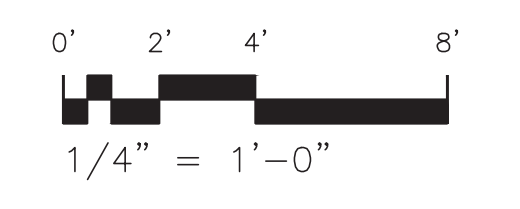


CONTROL JOINT
SCALE: 3/4"=1'
S102



EXPANSION JOINT
SCALE: 3/4"=1'
S102

- LEGEND**
- CONTROL JOINT= CTJ
 - CONSTRUCTION JOINT= CJ
 - EXPANSION JOINT= EJ



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SHEET CONTENTS:

TOP OF SLAB PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

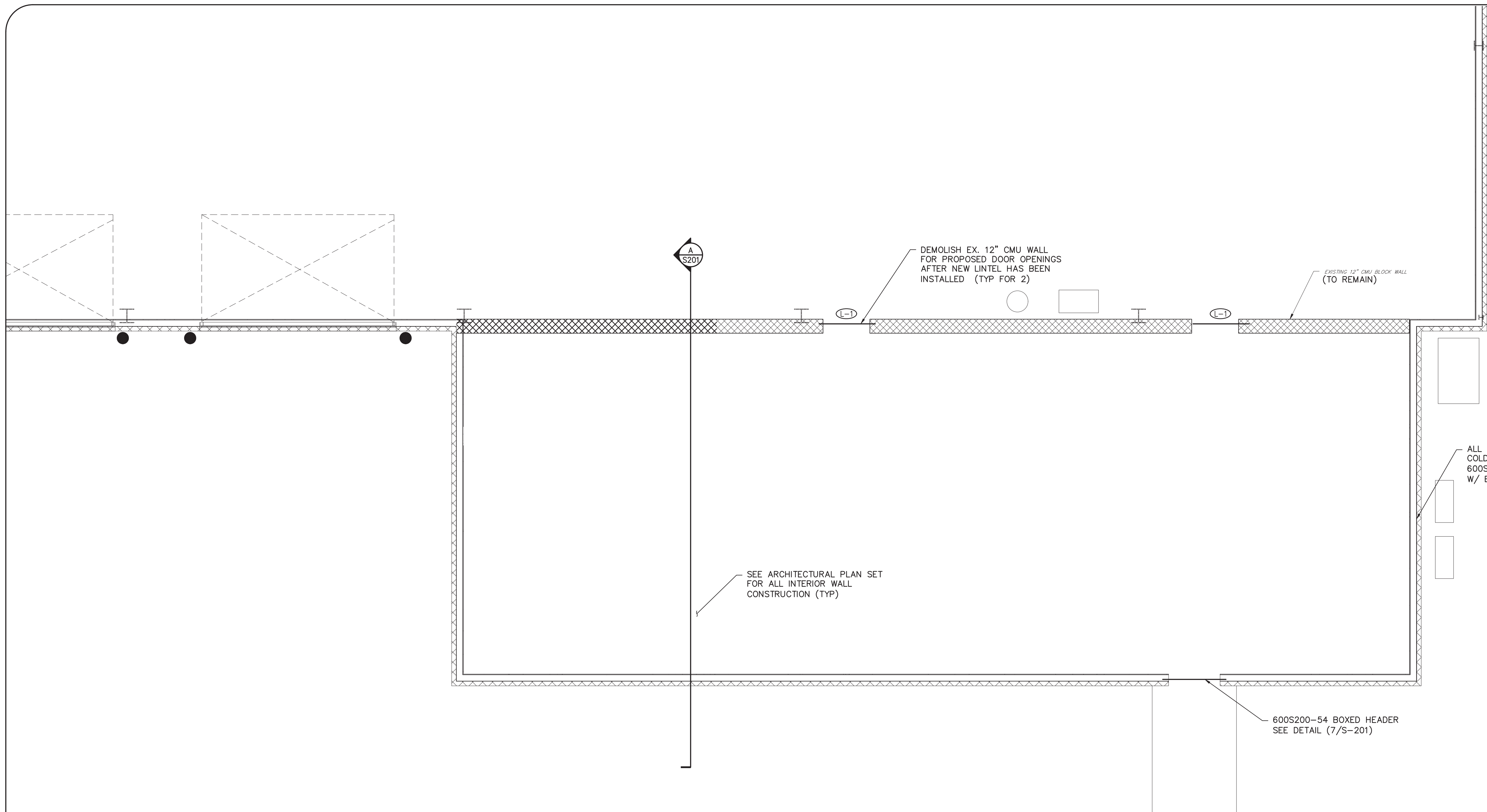
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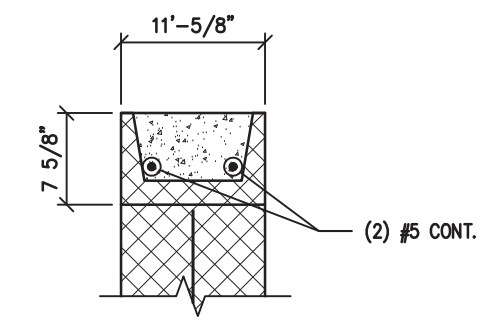
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Date	04.09.24
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Drawn by	J.G.
Checked by	
Job No.	2241869
Drawing No.	S-102

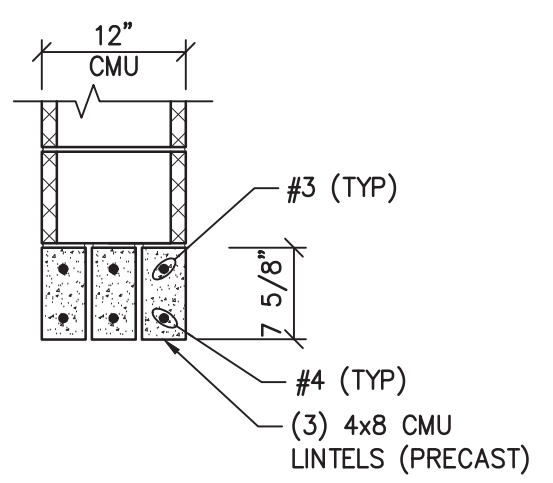
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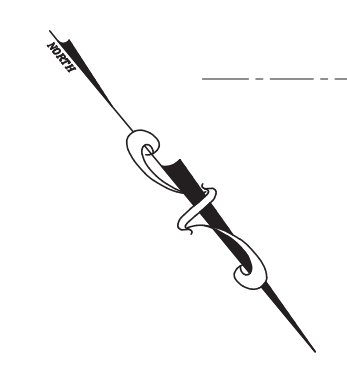
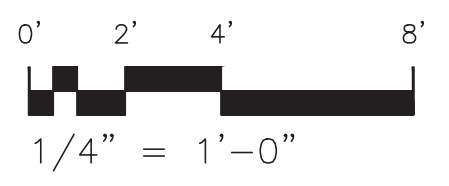
1
5-103
PROPOSED LINTEL PLAN
SCALE: 1/4"=1'-0"



BOND BEAM
N.T.S.



LINTEL L-1
N.T.S.



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SHEET CONTENTS:

LINTEL FLOOR PLAN

PROJECT TITLE:

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10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:

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Drawn by	J.G.
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Job No.	2241869
Drawing No.	

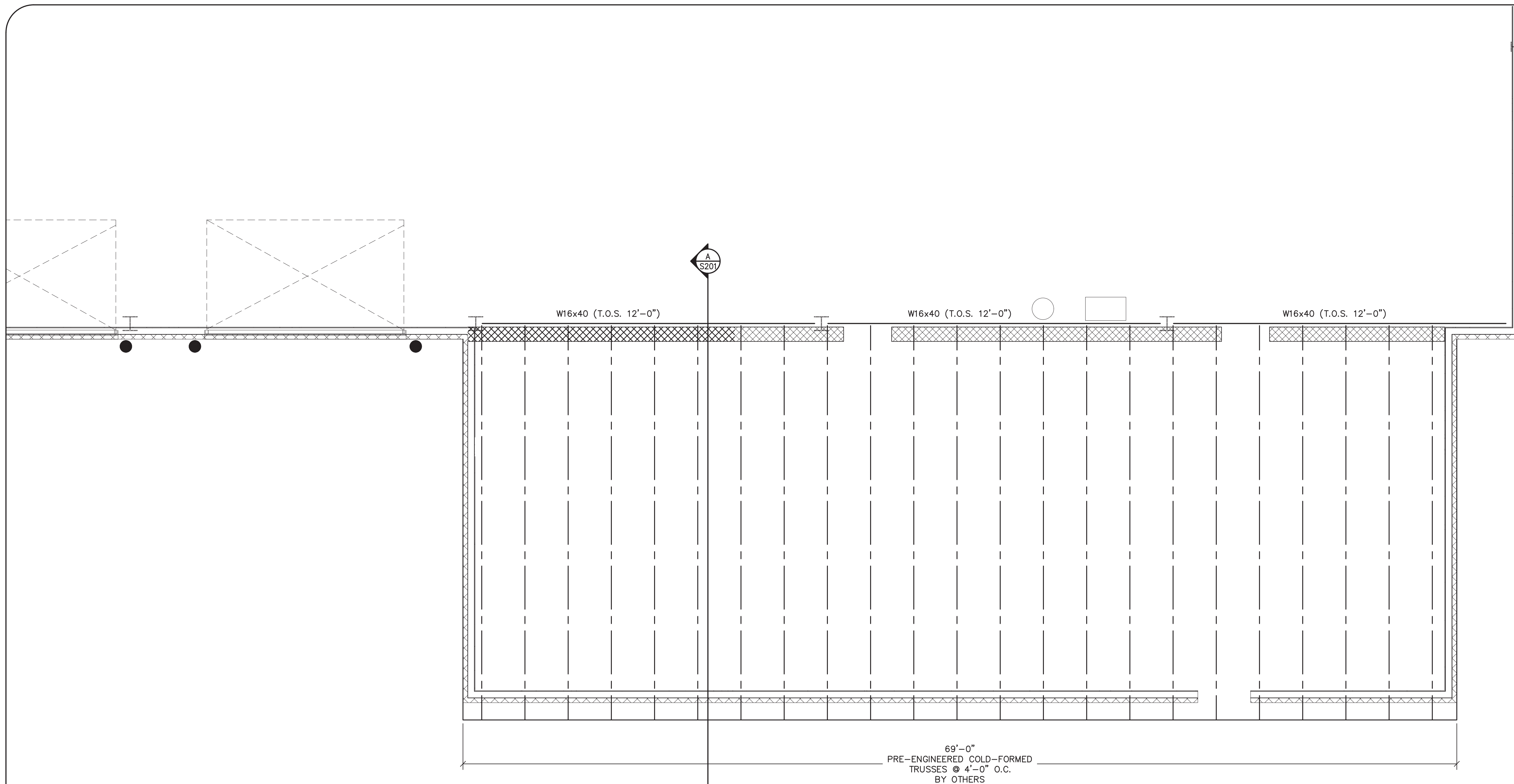
S-103

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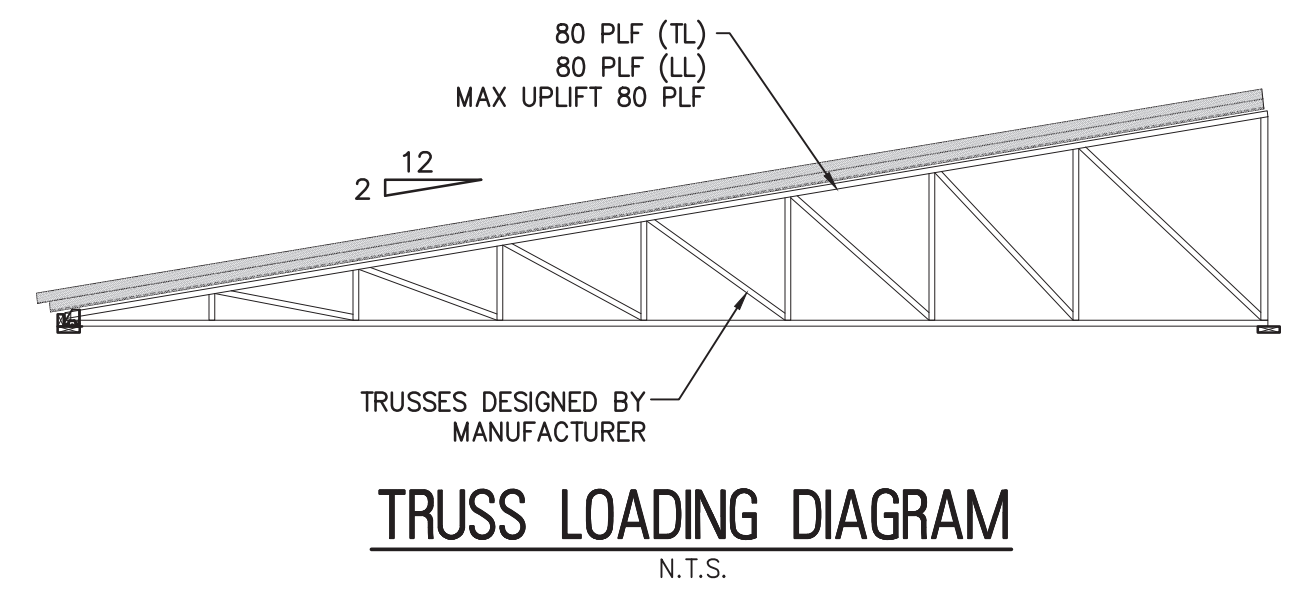
Kenneth C. Ressler
DATE: **03-12-2025**
KENNETH C. RESSLER
NJ PROFESSIONAL ENGINEER LIC. No. 34559

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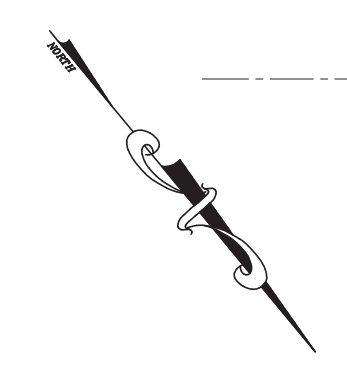
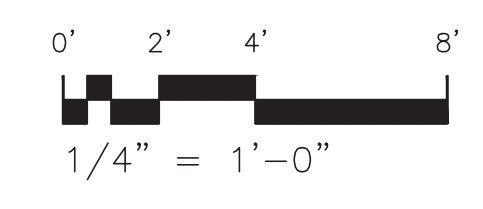


69'-0"
 PRE-ENGINEERED COLD-FORMED
 TRUSSES @ 4'-0" O.C.
 BY OTHERS

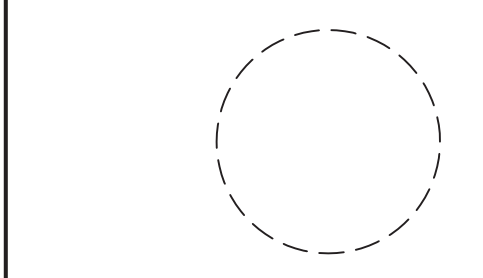
1
 5-104 **ROOF FRAMING PLAN**
 SCALE: 1/4"=1'-0"



TRUSS LOADING DIAGRAM
 N.T.S.



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SHEET CONTENTS:

ROOF FRAMING PLAN

PROJECT TITLE:

**RENOVATION FOR
 MAINTENANCE BUILDING
 BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP.
 BURLINGTON CO. NJ**

SUBMISSION:
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DATE	REVISIONS	BY	CHKD

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Scale	
Drawn by	J.G.
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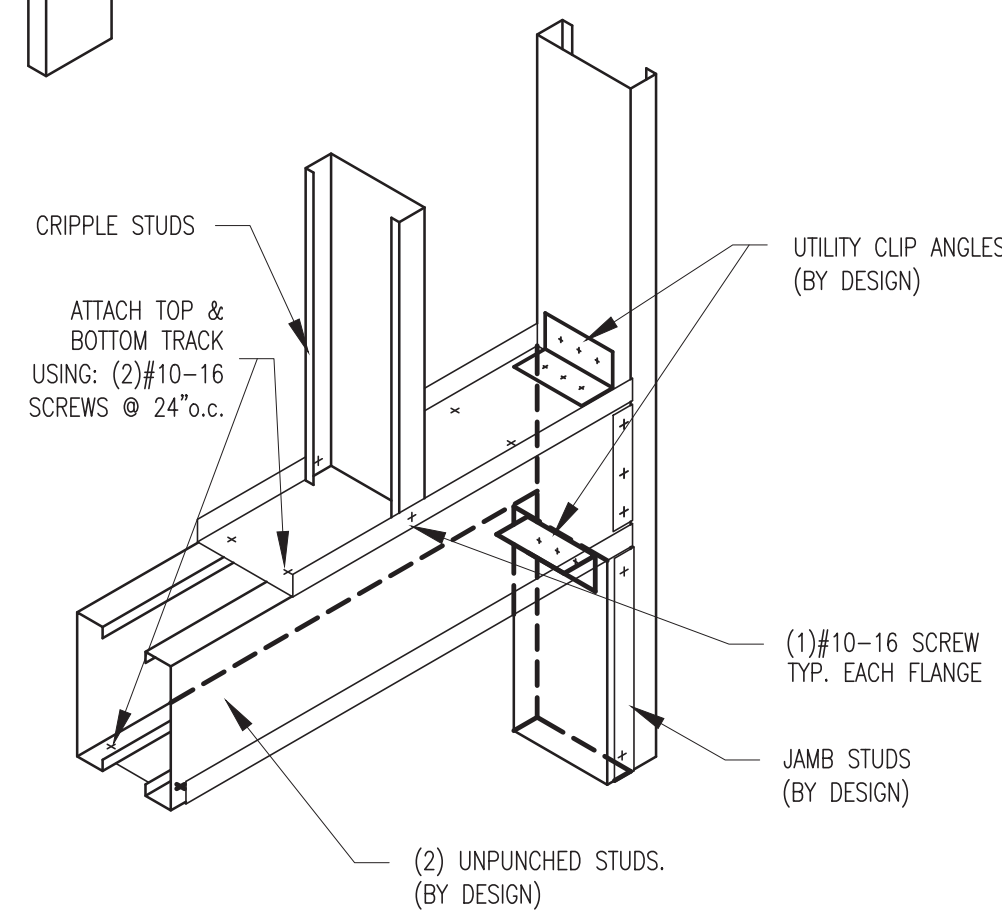
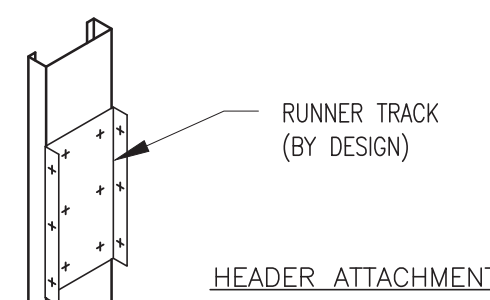
S-104

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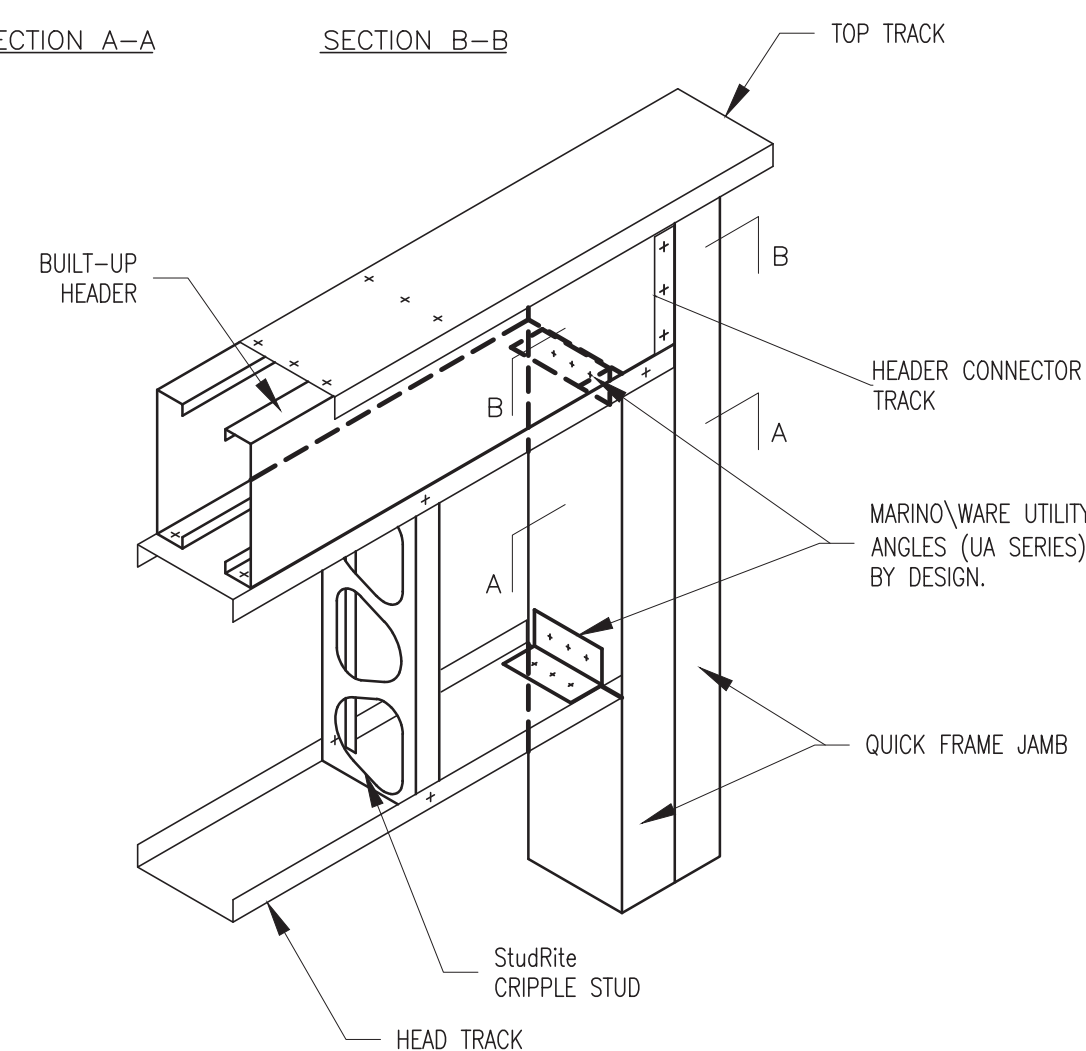
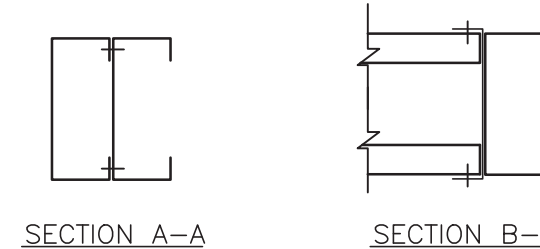
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Kenneth C. Ressler
 DATE: **03-12-2025**
KENNETH C. RESSLER
 NJ PROFESSIONAL ENGINEER LIC. No. 34559

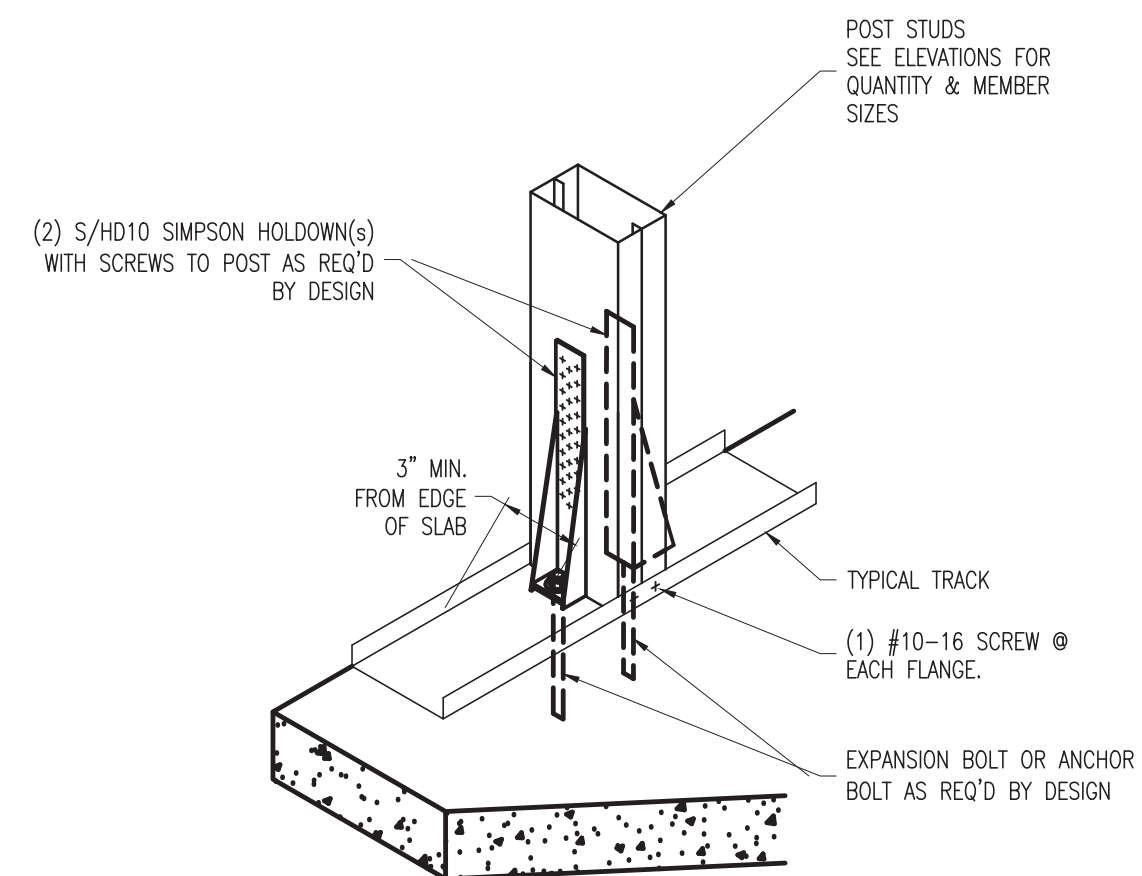
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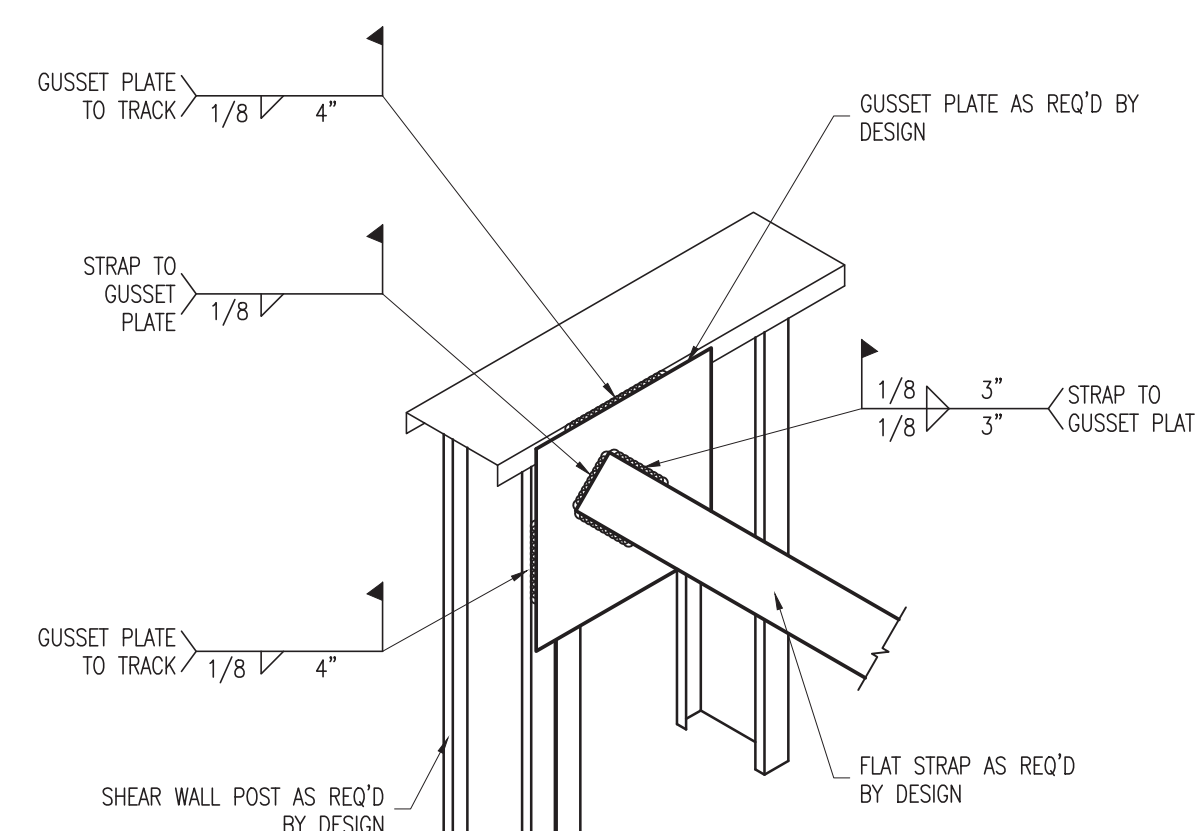
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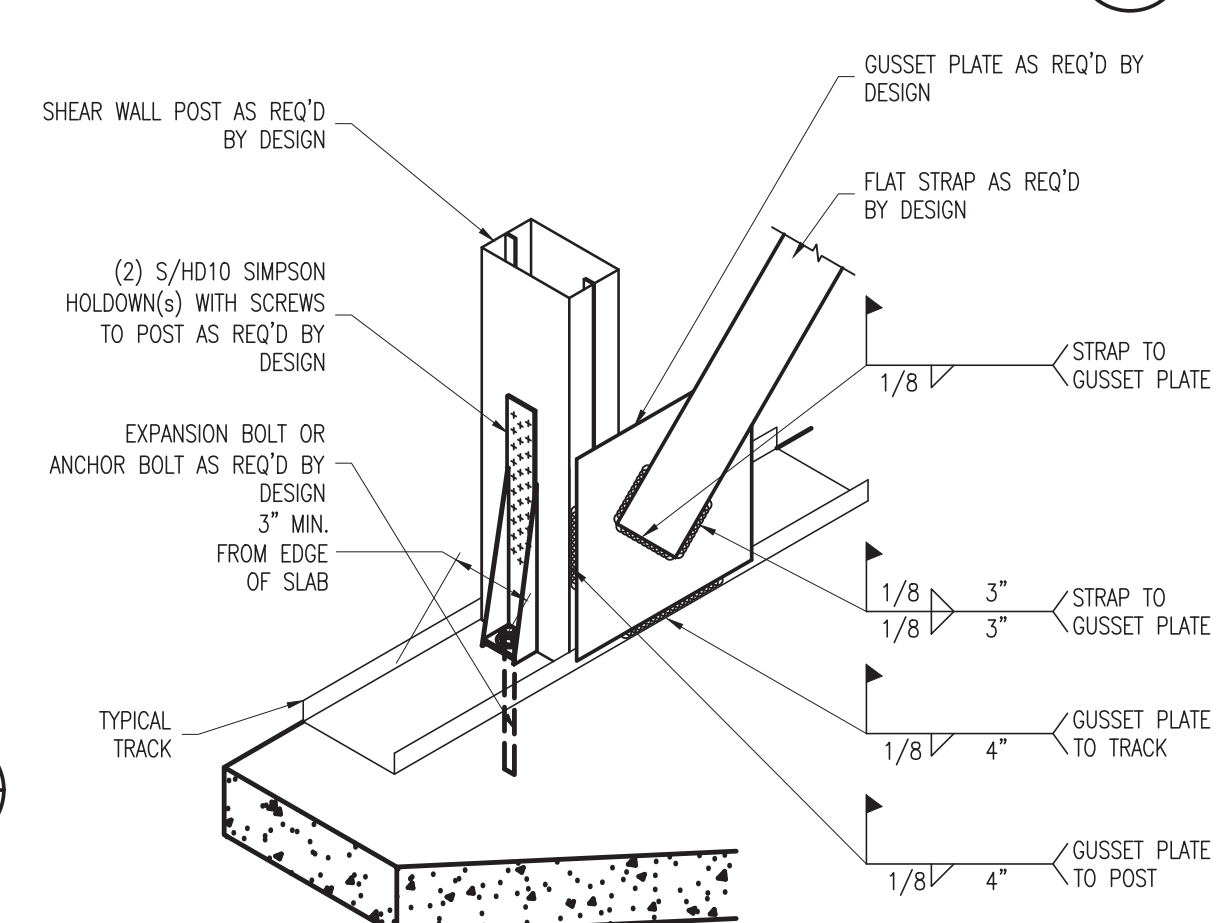
LOAD BEARING HEADER CONNECTION DETAIL 8
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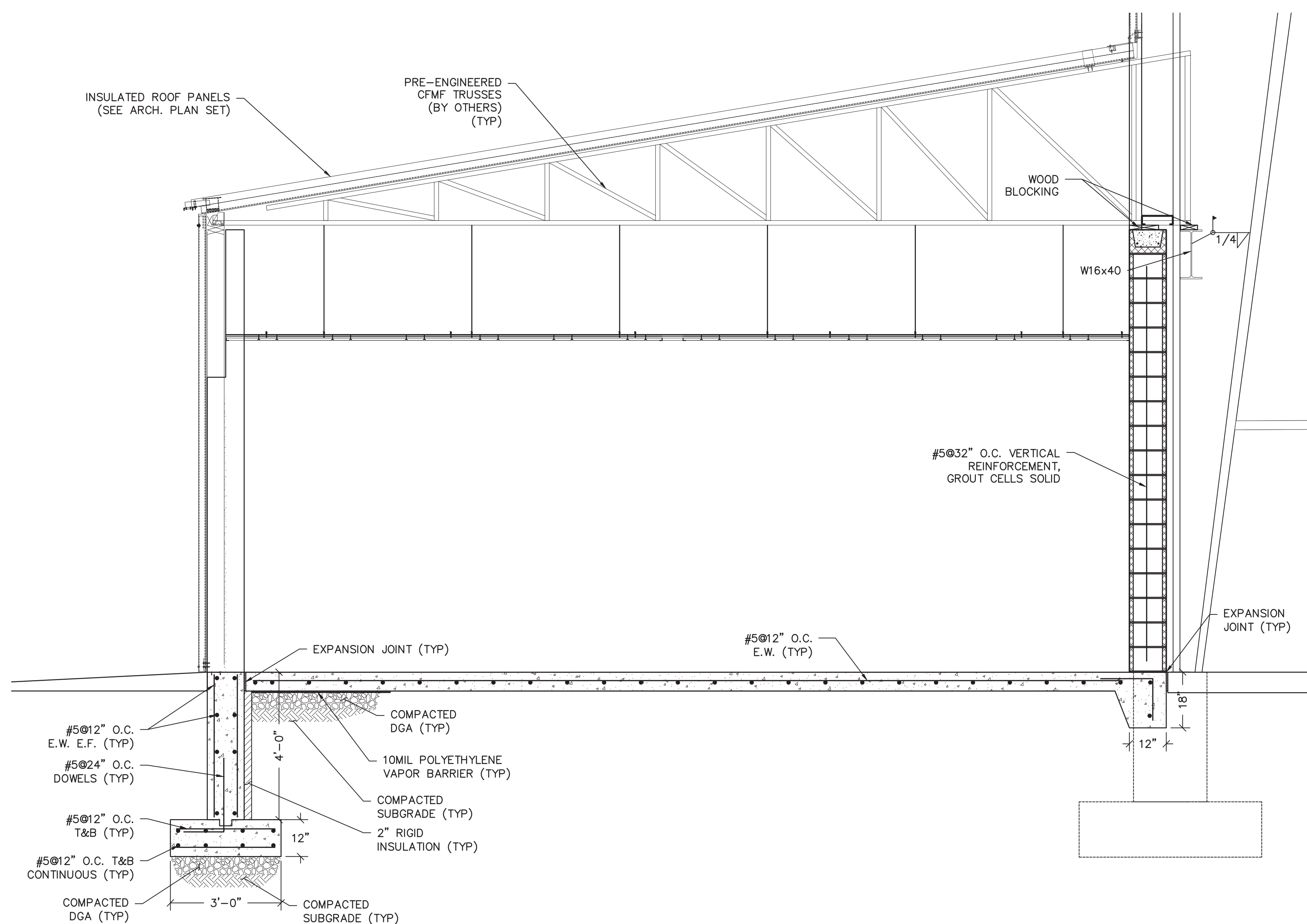
POST ANCHORAGE DETAIL 4
N.T.S. S-201



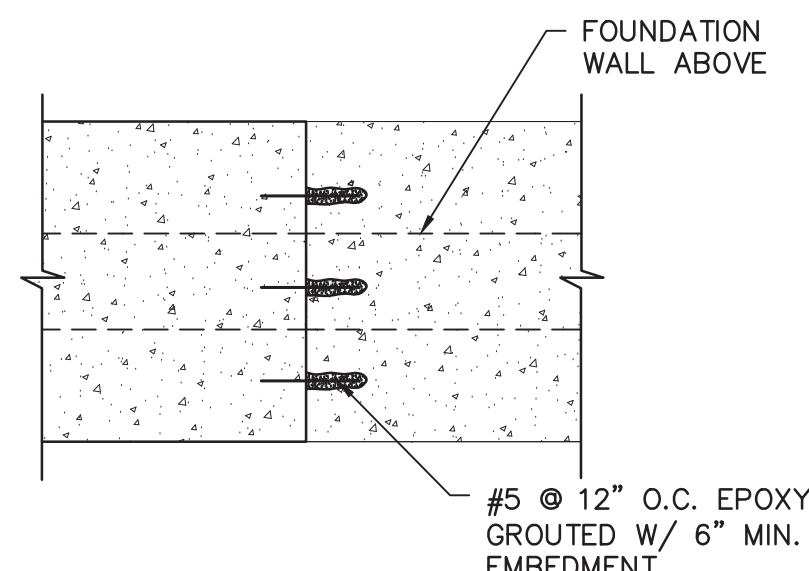
SHEAR WALL TOP CONNECTION DETAIL 5
N.T.S. S-201



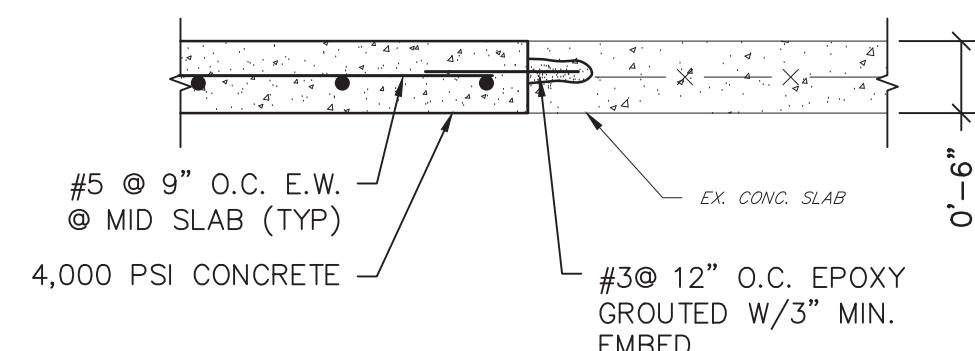
SHEAR WALL BASE CONNECTION DETAIL 6
N.T.S. S-201



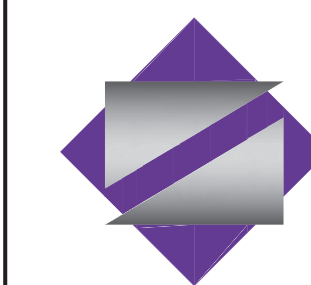
BUILDING SECTION A
N.T.S. S-201



EXISTING TO NEW FOUNDATION CONNECTION DETAIL 3
N.T.S. S-201



EXISTING SLAB TO NEW SLAB CONNECTION DETAIL 2
N.T.S. S-201



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SHEET CONTENTS:

STRUCTURAL DETAILS

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date 04.09.24

Scale

Drawn by J.G.

Checked by

Job No. 2241869

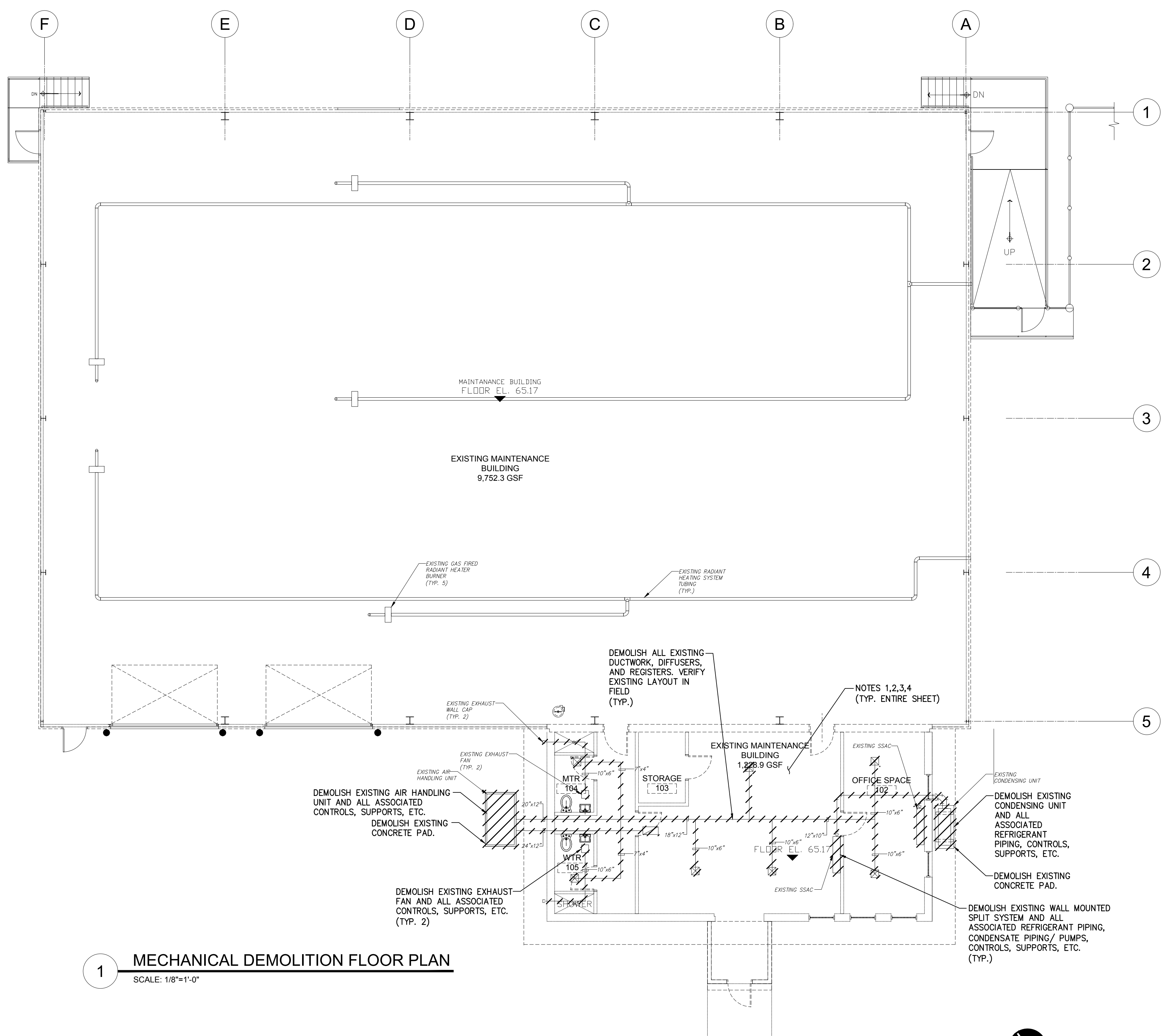
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S-201

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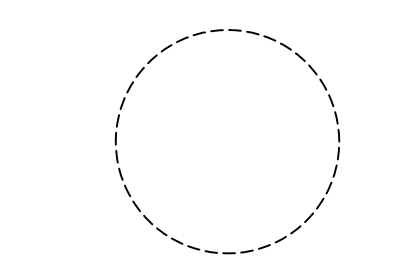
Kenneth C. Ressler
DATE: 03-12-2025
KENNETH C. RESSLER
NJ PROFESSIONAL ENGINEER LIC. NO. 34559



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

NOTES:

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
- COORDINATE THE DEMOLITION OF THE EXISTING MECHANICAL EQUIPMENT WITH OWNER. OWNER SHALL RESERVE THE RIGHT TO MAINTAIN SALVAGED EQUIPMENT. ALL EQUIPMENT NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
- COORDINATE THE DEMOLITION OF THE EXISTING MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR. SEE THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAILS.
- DEMOLISH EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS AND DUCT MOUNTED DEVICES. DEMOLISH EXISTING ELECTRIC CABINET UNIT HEATER AND ALL ASSOCIATED DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS, DUCT MOUNTED DEVICES, CONTROLS, CONTROLS, CONTROLS, CONTROL WIRING, ETC.
- DEMOLISH EXISTING RETURN AIR DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS, DUCT MOUNTED DEVICES, CONTROLS, CONTROL WIRING, ETC. DEMOLISH EXISTING RETURN AIR DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS, DUCT MOUNTED DEVICES, CONTROLS, CONTROL WIRING, ETC.



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SHEET CONTENTS:

MECHANICAL DEMOLITION FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869
Drawing No.	

M-1.1

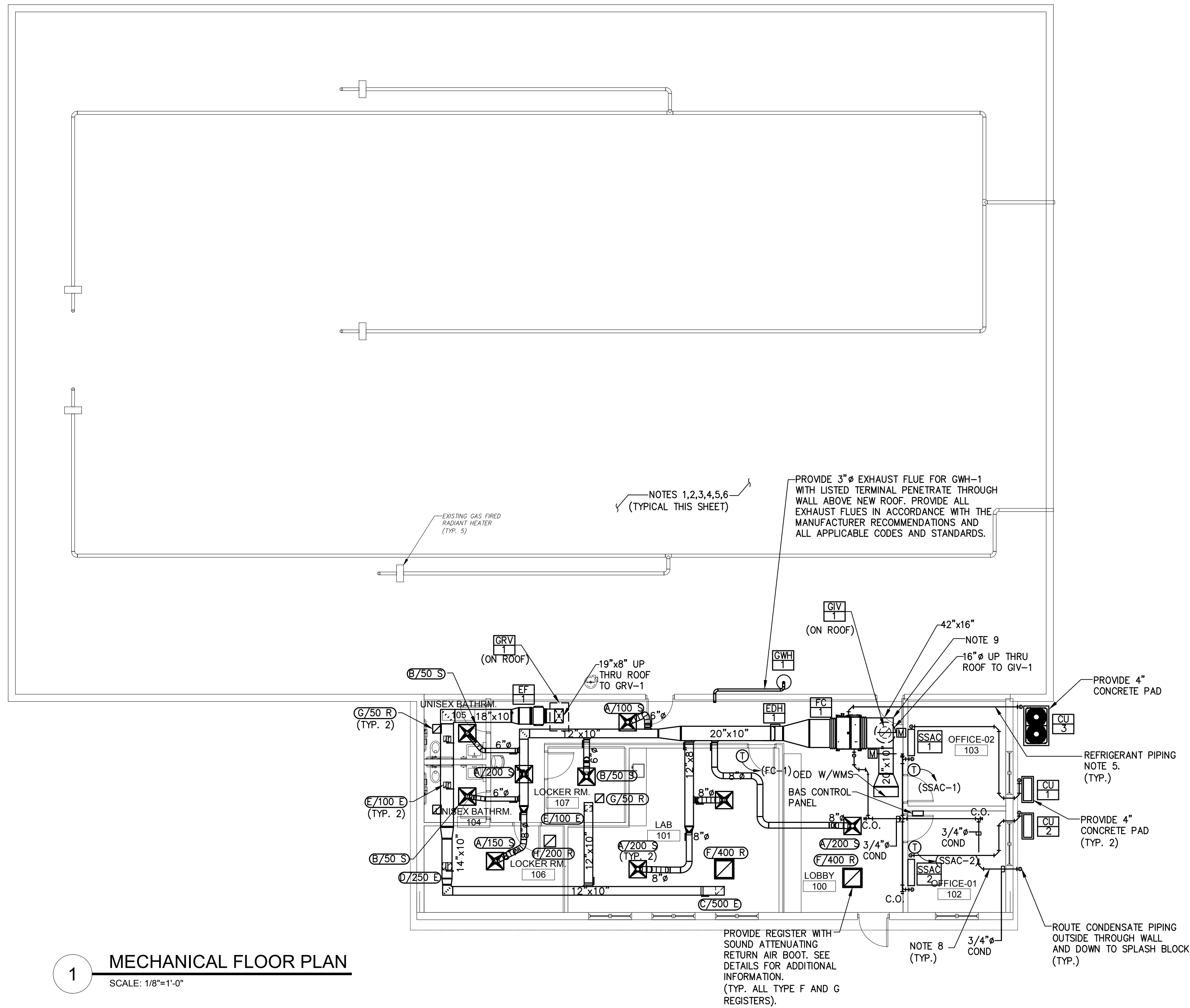
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DATE:
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

ISSUED FOR BID
DATE: 01-10-2025

P:\Projects\Burlington County\MEP\08017\Sheet\M-1.1 Mechanical Demolition Floor Plan.dwg 10/08/2024 2:52:21 PM

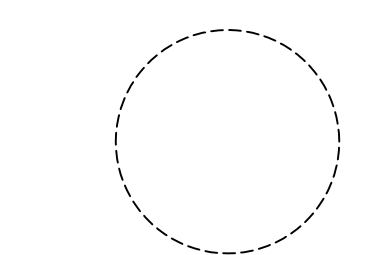


1 MECHANICAL FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTES:

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- THIS NEW WORK PLAN HAS BEEN PROVIDED AS A GUIDE TO CONVEY THE DESIGN INTENT. ALL NEW WORK REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK. ALL EXISTING SYSTEMS NOT SPECIFICALLY SHOWN OR NOTED TO BE REMOVED/MODIFIED ON THE DRAWINGS SHALL REMAIN IN SERVICE AND BE UNDISTURBED.
- DUCTWORK ROUTINGS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ROUTINGS IN THE FIELD TO AVOID INTERFERENCES. CONTRACTOR TO COORDINATE DUCTWORK/UNIT INSTALLATION WITH ALL STRUCTURAL STEEL, ELECTRICAL CONDUIT, SYSTEMS WIRING/CABLE, CLOCK SYSTEM, FIRE PROTECTION PIPING, PLUMBING PIPING (SANITARY DRAINAGE, ROOF DRAINAGE, DOMESTIC HOT/COLD WATER AND GAS PIPING), ETC. AS REQUIRED. ALL MODIFICATIONS MADE TO THE NEW DUCTWORK OR PIPING TO RESOLVE INTERFERENCES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. SEE DIVISION 16 DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE FIRE STOPPING SLEEVES AS REQUIRED FOR ALL PROPOSED CORRIDOR/ FIREWALL/FLOOR/ROOF PENETRATIONS.

- PROVIDE REFRIGERATION PIPING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALL PIPE ROUTINGS SHOWN ARE APPROXIMATE. REFRIGERATION PIPING SHOWN ON THIS PLAN REFLECTS BOTH SUCTION AND LIQUID PIPING. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD COORDINATE ALL FINAL PIPE ROUTINGS IN THE FIELD TO AVOID INTERFERENCES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL FIELD VERIFY FINAL LENGTH OF ALL HORIZONTAL AND VERTICAL REFRIGERANT PIPING RUNS (INCLUDING ALL FITTINGS) BETWEEN EQUIPMENT FOR PIPE SIZE CONFIRMATION. PROVIDE ALL VALVES, FILTERS, AND OTHER ACCESSORIES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL REFRIGERATION SUCTION PIPING SHALL BE INSULATED - SEE DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- NOT ALL INLINE DEVICES (VALVES, DAMPERS, REDUCERS, GAUGES, ETC.) HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. SEE PIPING DETAILS ON MECHANICAL DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL INLINE DEVICES (VALVES, DAMPERS, REDUCERS, GAUGES, ETC.) AS REQUIRED TO COMPLETE THE INSTALLATION EVEN IF NOT SPECIFICALLY SHOWN ON THE PLANS OR DETAILS.
- LOCATION OF ALL CEILING MOUNTED GRILLES, REGISTERS AND DIFFUSERS SHOWN ON THIS SHEET ARE APPROXIMATE. CONTRACTOR SHALL FIELD ADJUST ALL LOCATIONS BASED ON THE CEILING GRID LAYOUT AS REQUIRED TO COMPLETE THE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER
- PROVIDE A MINIMUM HORIZONTAL SLOPE OF NO LESS THAN 1/8" EVERY 12" FOR CONDENSATE LINES.
- CONTRACTOR TO INSTALL FIELD FABRICATED MIXING BOX WITH RA/OA DAMPERS.



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MECHANICAL FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869
Drawing No.	

M-2.1

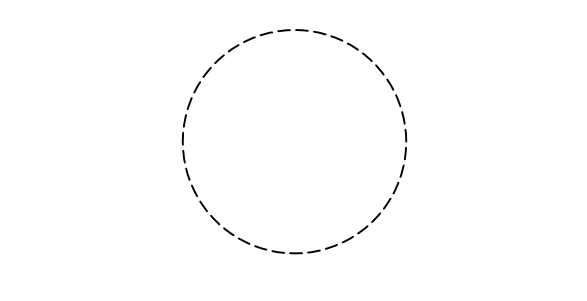
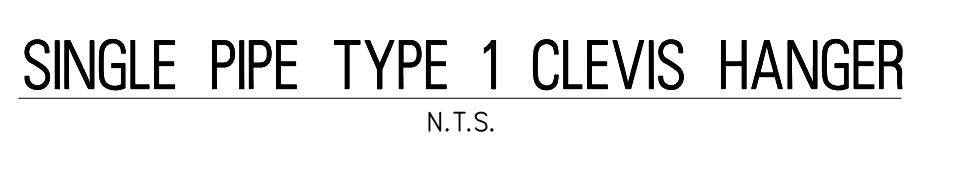
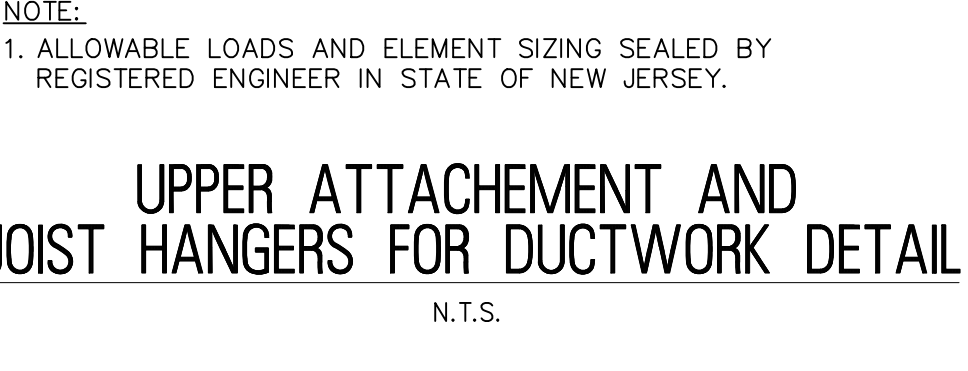
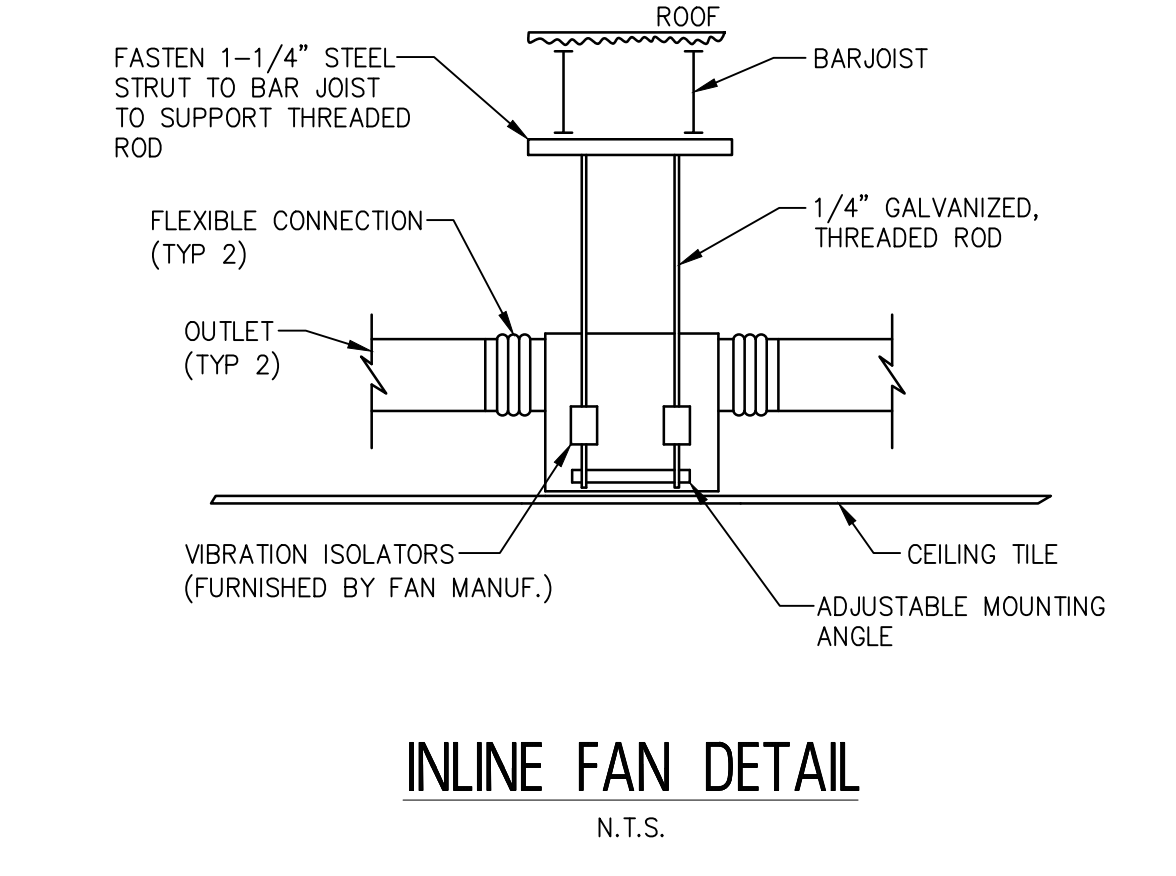
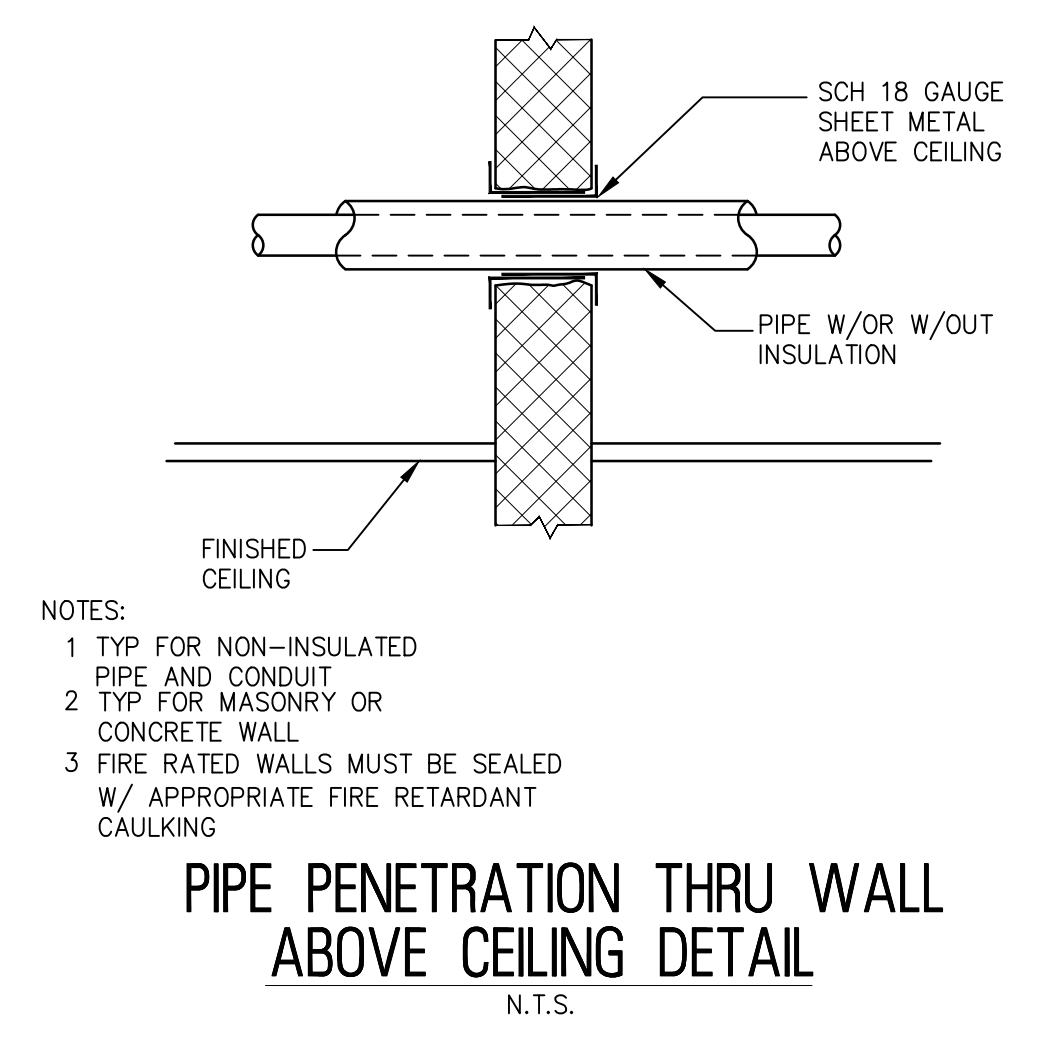
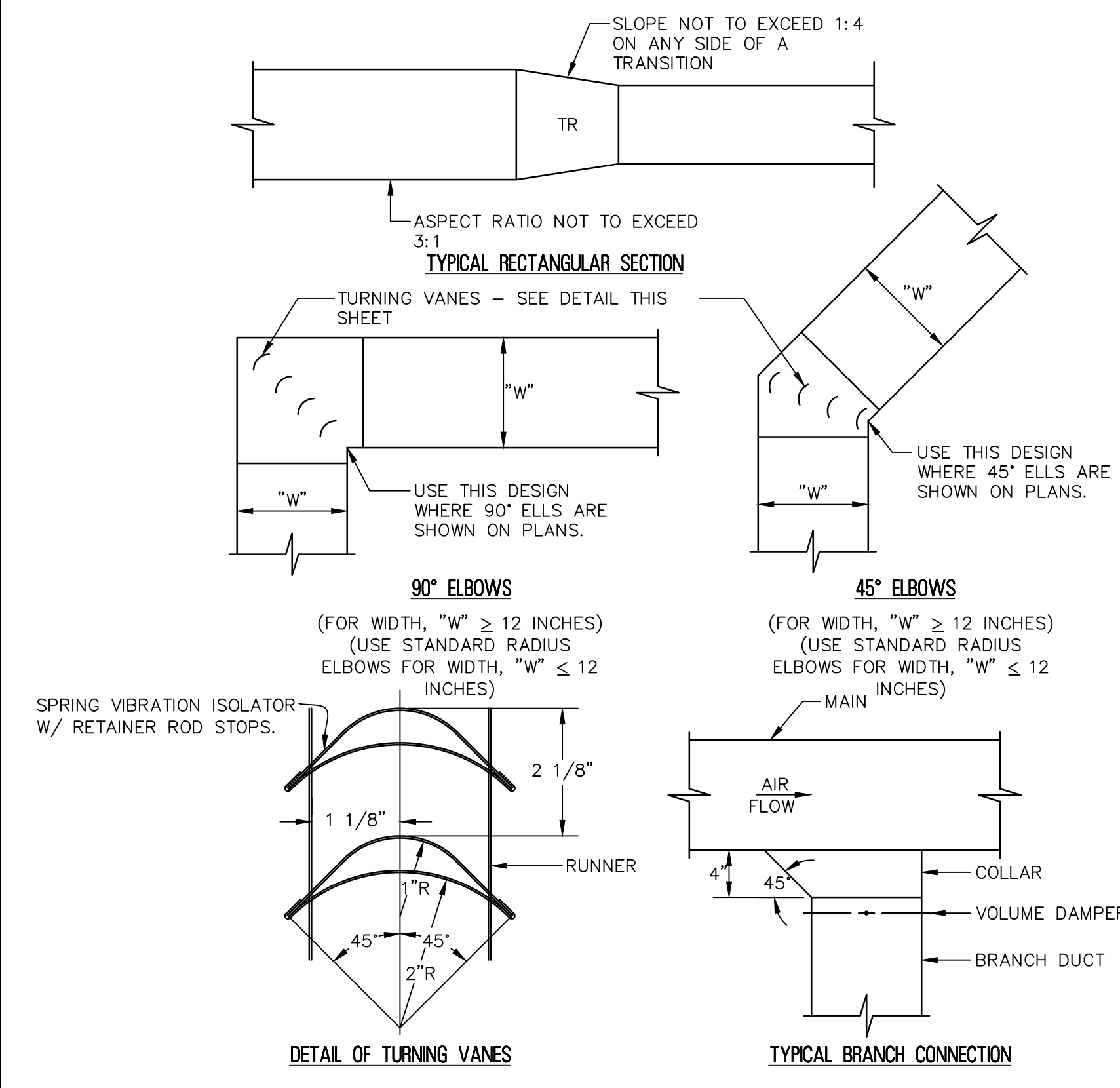
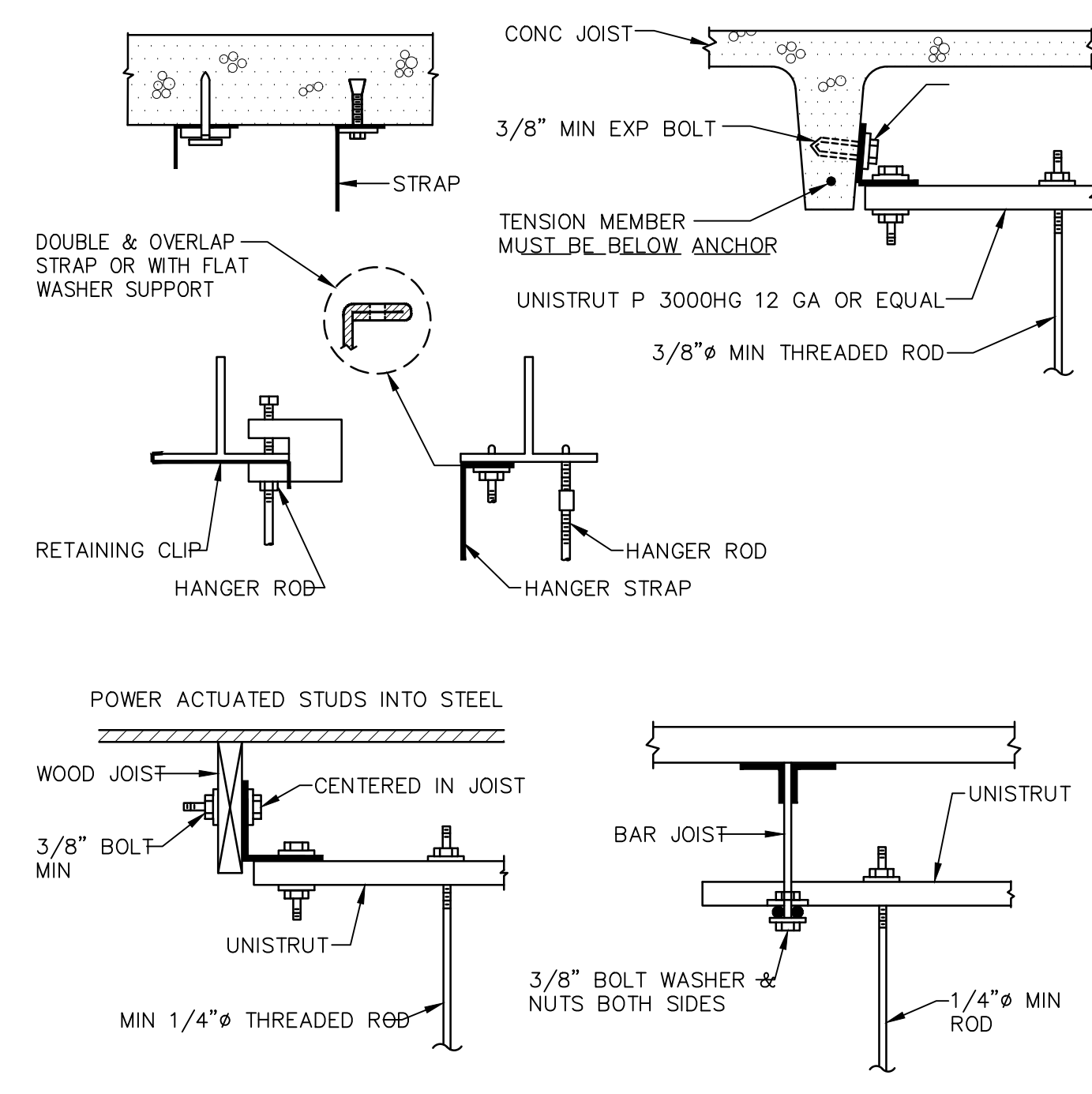
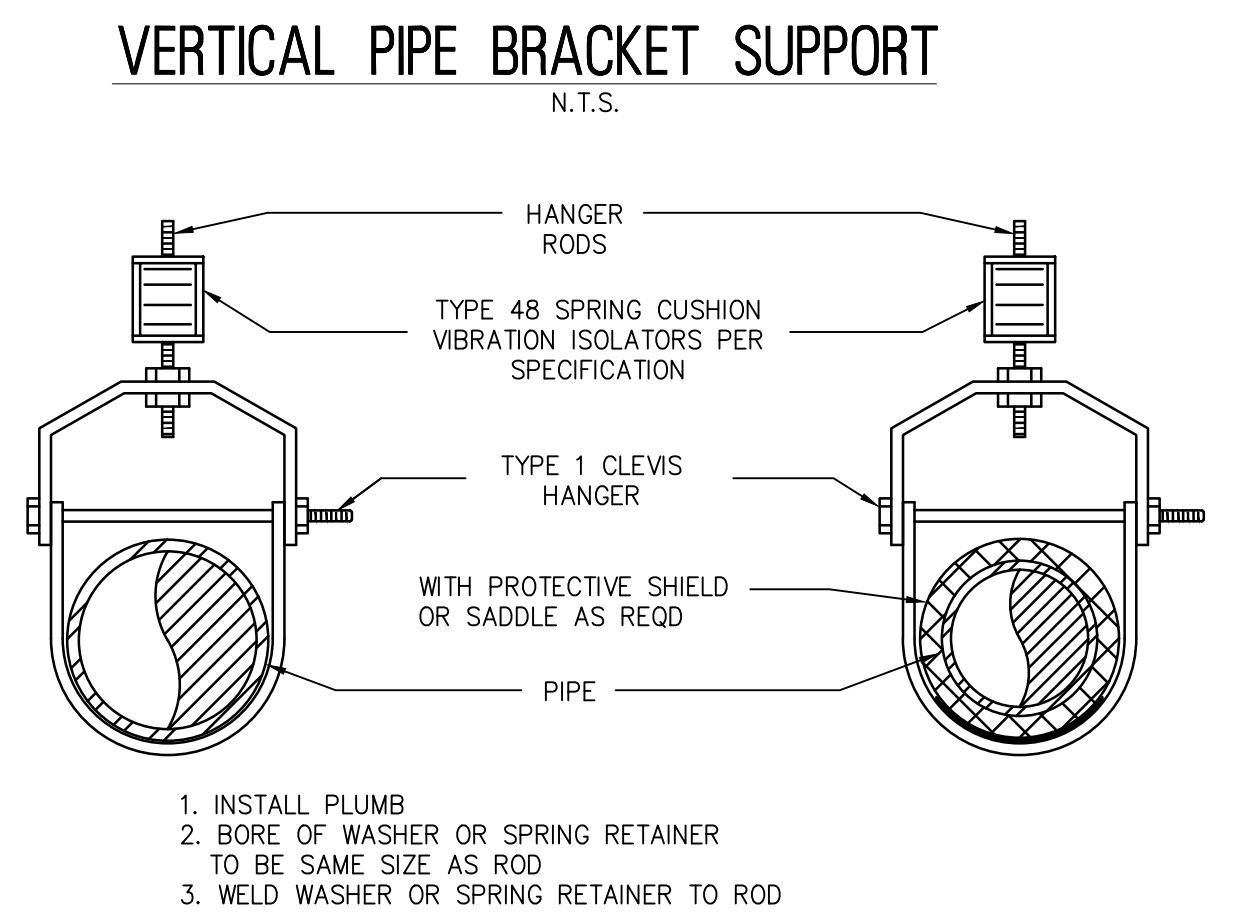
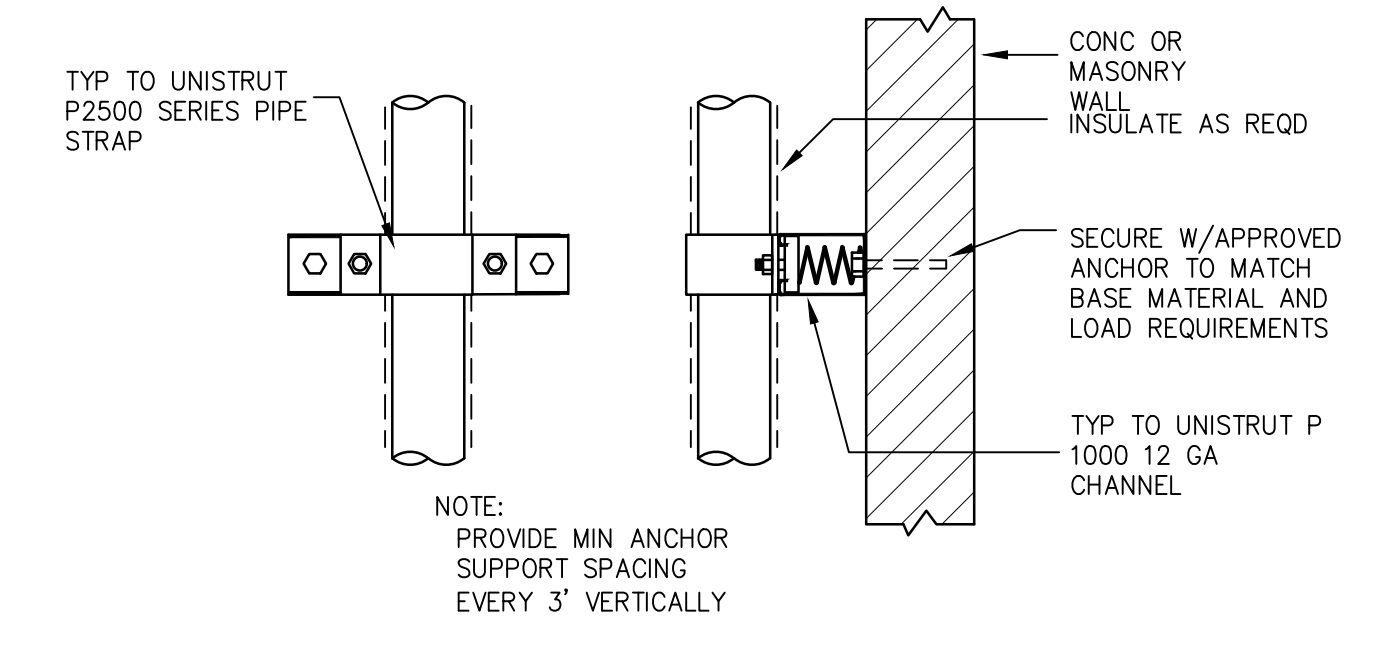
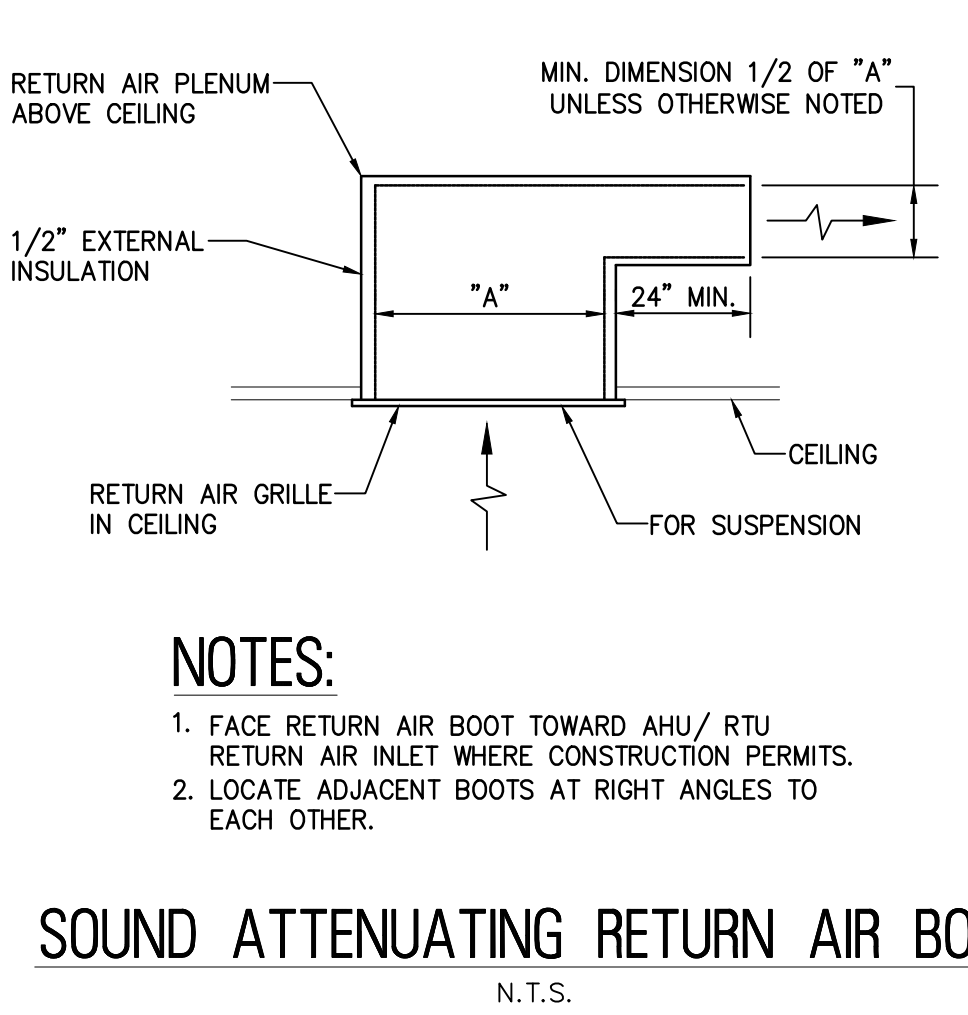
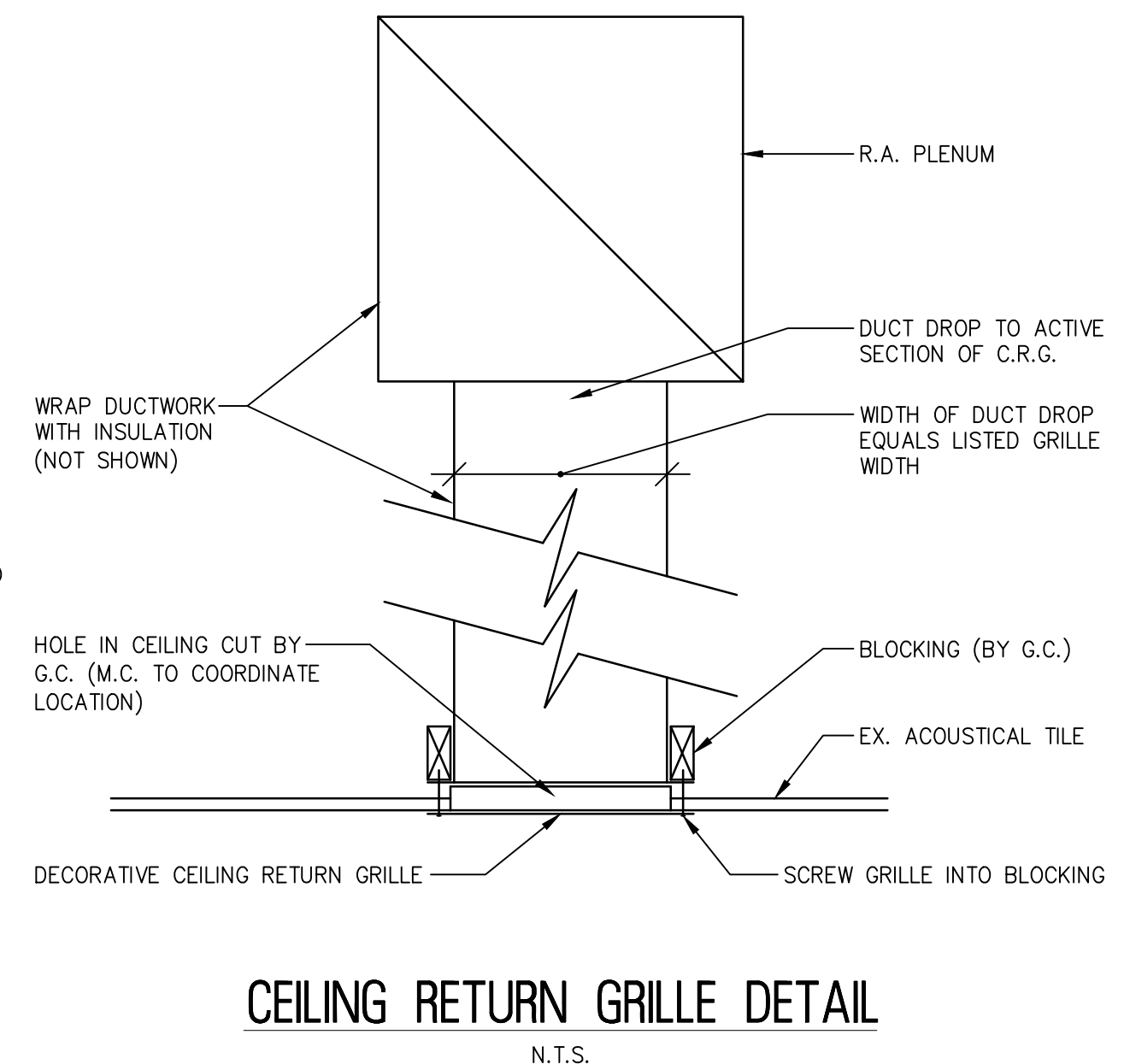
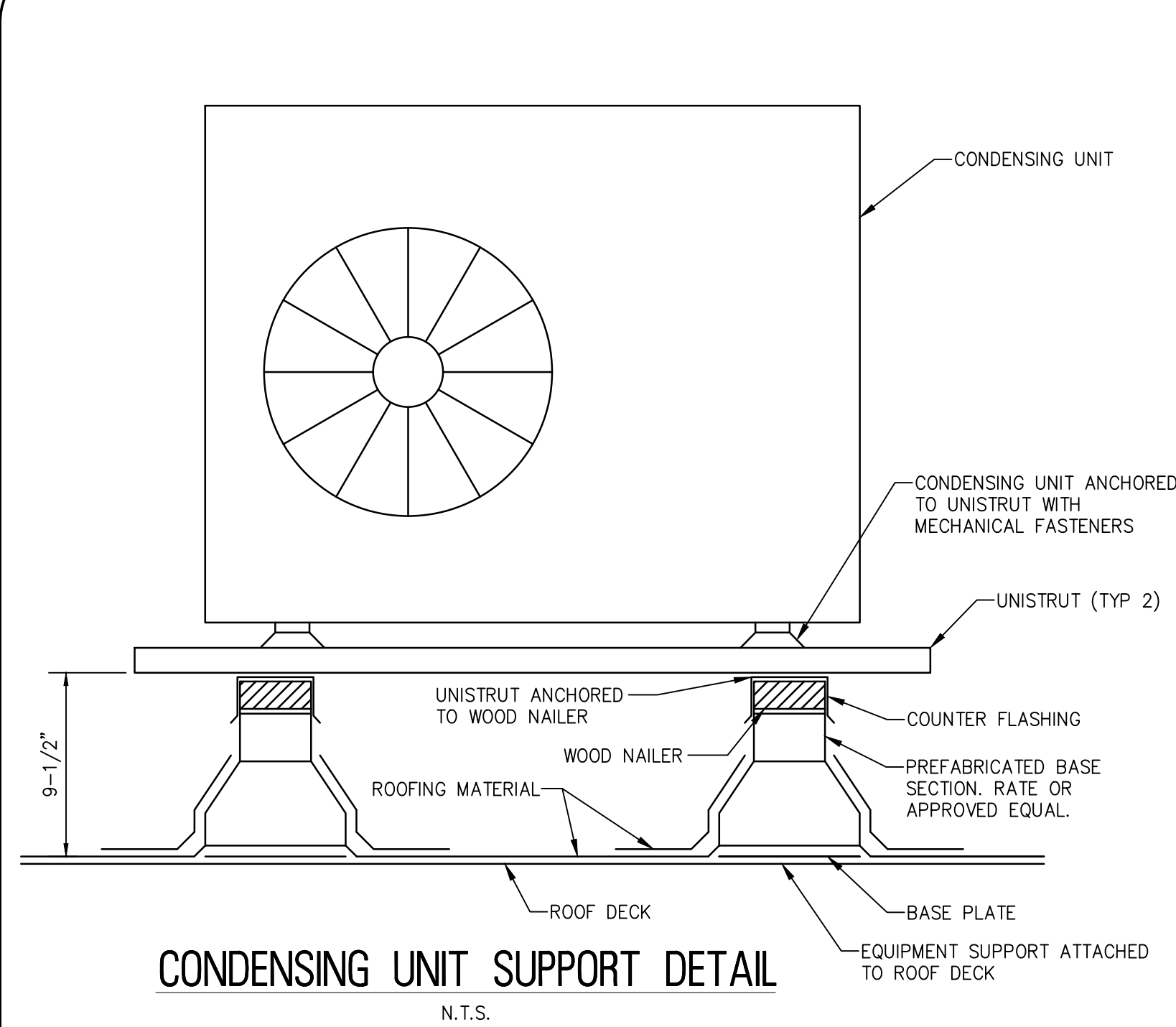
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DATE:
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NJ PROFESSIONAL ENGINEER LIC. NO. 40059

ISSUED FOR BID
DATE: 01-10-2025

P:\Projects\Burlington County\080701\080701\Sheet\M-2.1_Mechanical Floor Plan.rvt 10/20/24 3:53:31 PM



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SHEET CONTENTS:

MECHANICAL DETAILS

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

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Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869
Drawing No.	

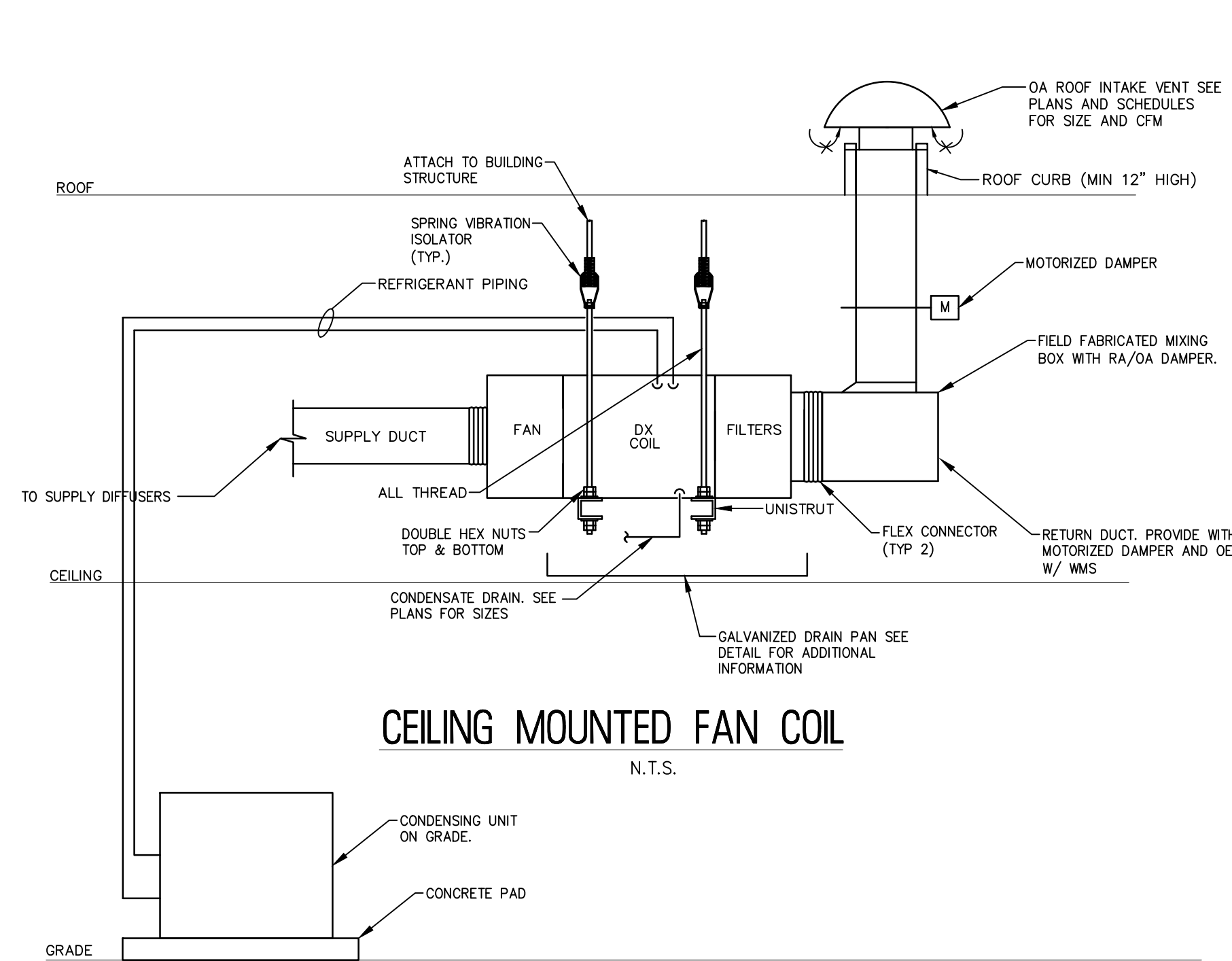
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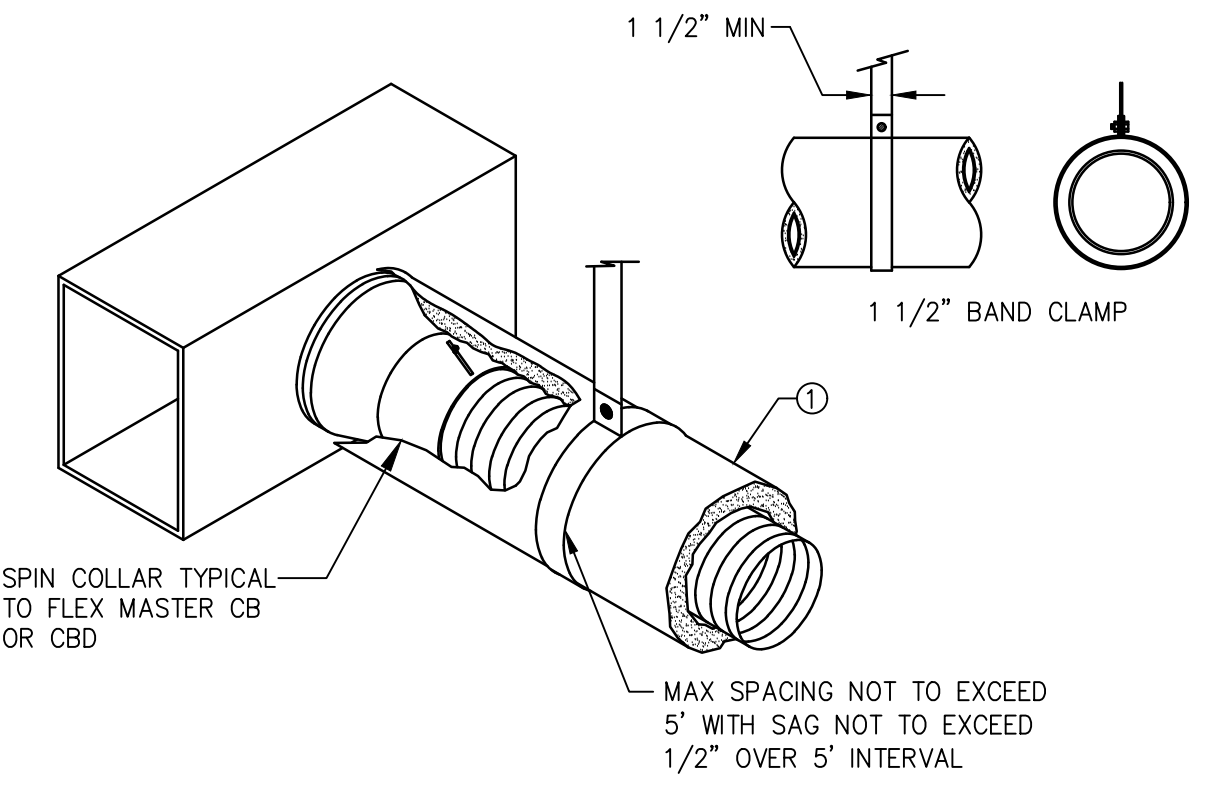
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CEILING MOUNTED FAN COIL
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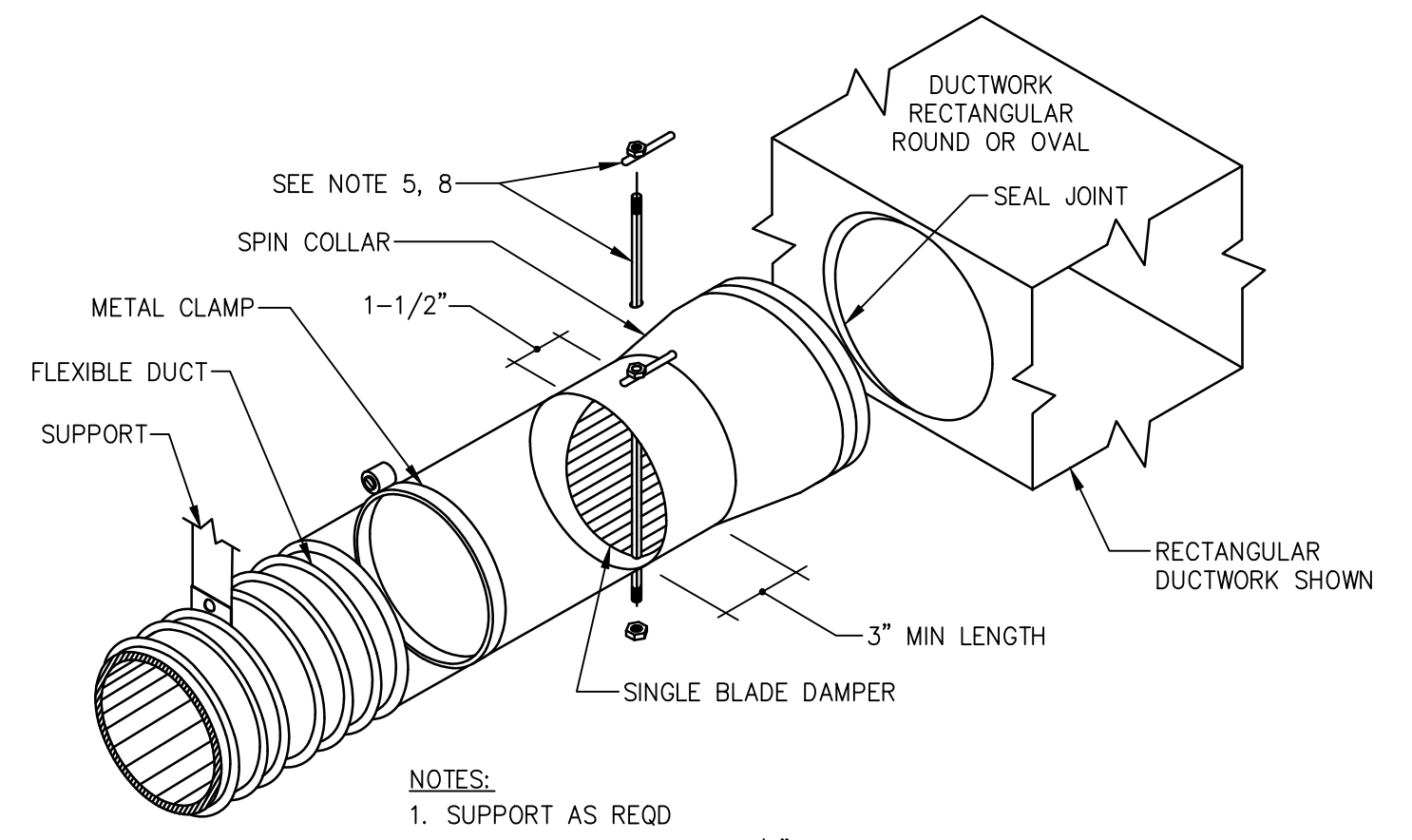


GAUGE	THK.	1" STRAP CAPABILITY	MAXIMUM LOAD
24	.028	840	168
22	.034	1070	216
20	.040	1298	259

* ELASTIC LIMIT ASSUMED
30ksi; RECOMMEND MAX LOAD
(20% OF YIELD STRENGTH).

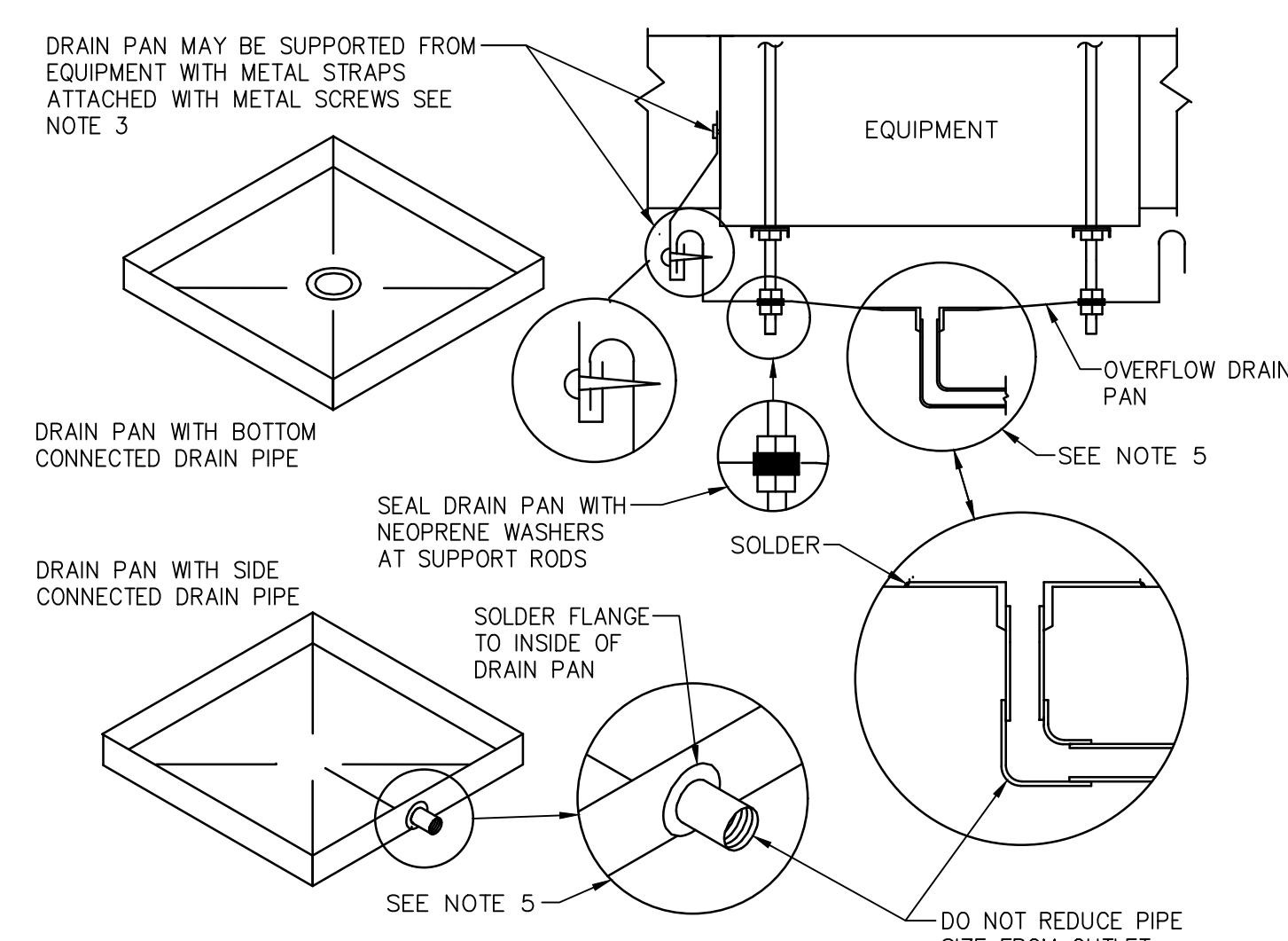
NOTES:
1. FLEX DUCT WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.

SUGGESTED SUPPORT REQUIREMENTS FOR FLEX & STRAIGHT RECTANGULAR DUCT
N.T.S.



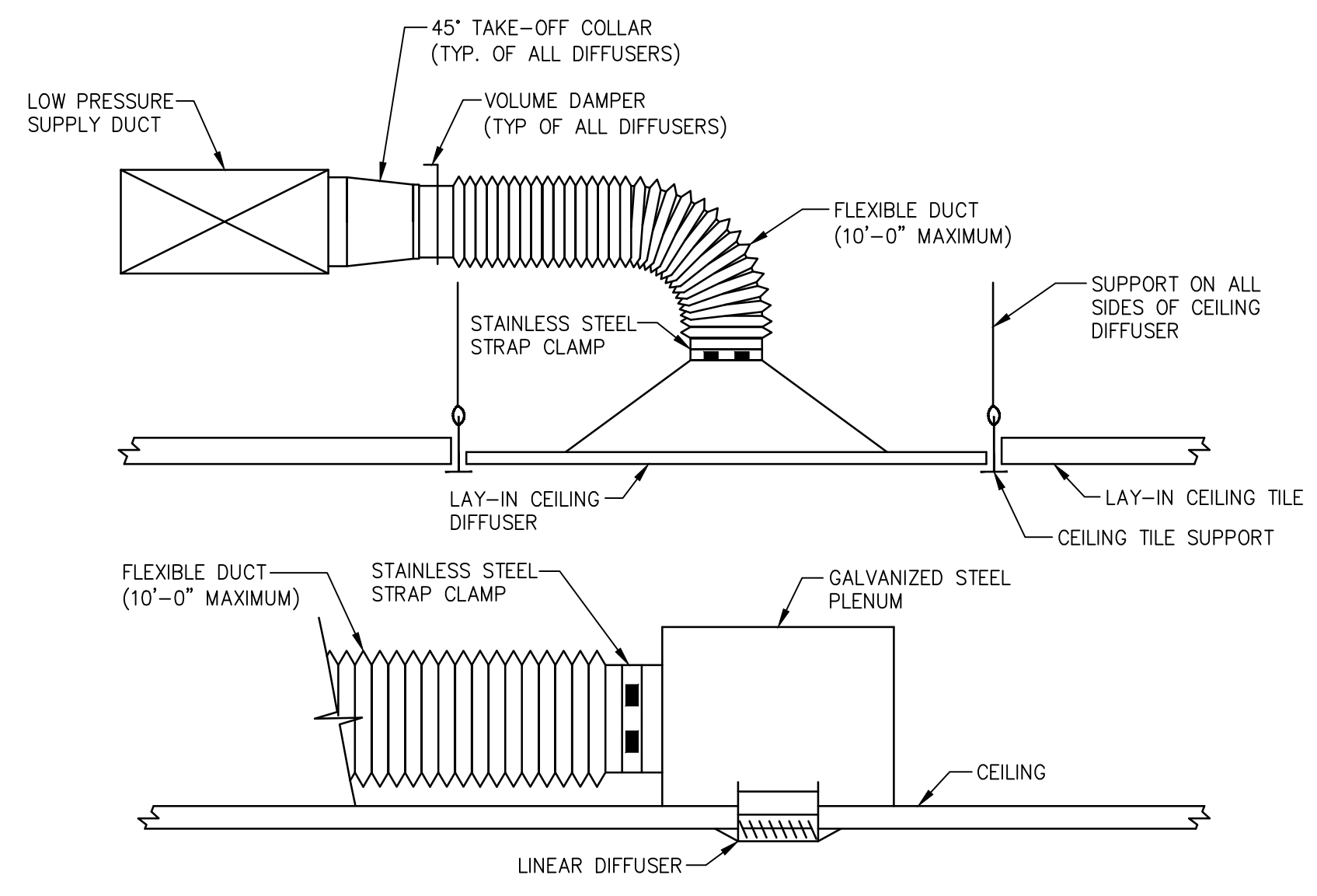
NOTES:
1. SUPPORT AS REQD
2. BAND FLEX TO COLLAR 1/2" MIN FROM OUTBOARD END OF COLLAR
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TAB CONTRACTOR
4. PULL FLEXIBLE DUCTWORK INSULATION UP TO END OF SPIN COLLAR AT EDGE OF RECTANGULAR DUCTWORK; SEAL VAPOR BARRIER W/GREY TAPE TO PREVENT MOISTURE MIGRATION
5. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION, PULL TO EDGE OF DUCTWORK AS REQD AND SEAL TO EFFECT VAPOR BARRIER
6. POP RIVET OR SHEET METAL SCREWS, MIN 3 EA AT 120" INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE W/DAMPER
7. TAPE AND SEAL ALL JOINTS TO PREVENT LEAKAGE
8. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY)

SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER
N.T.S.

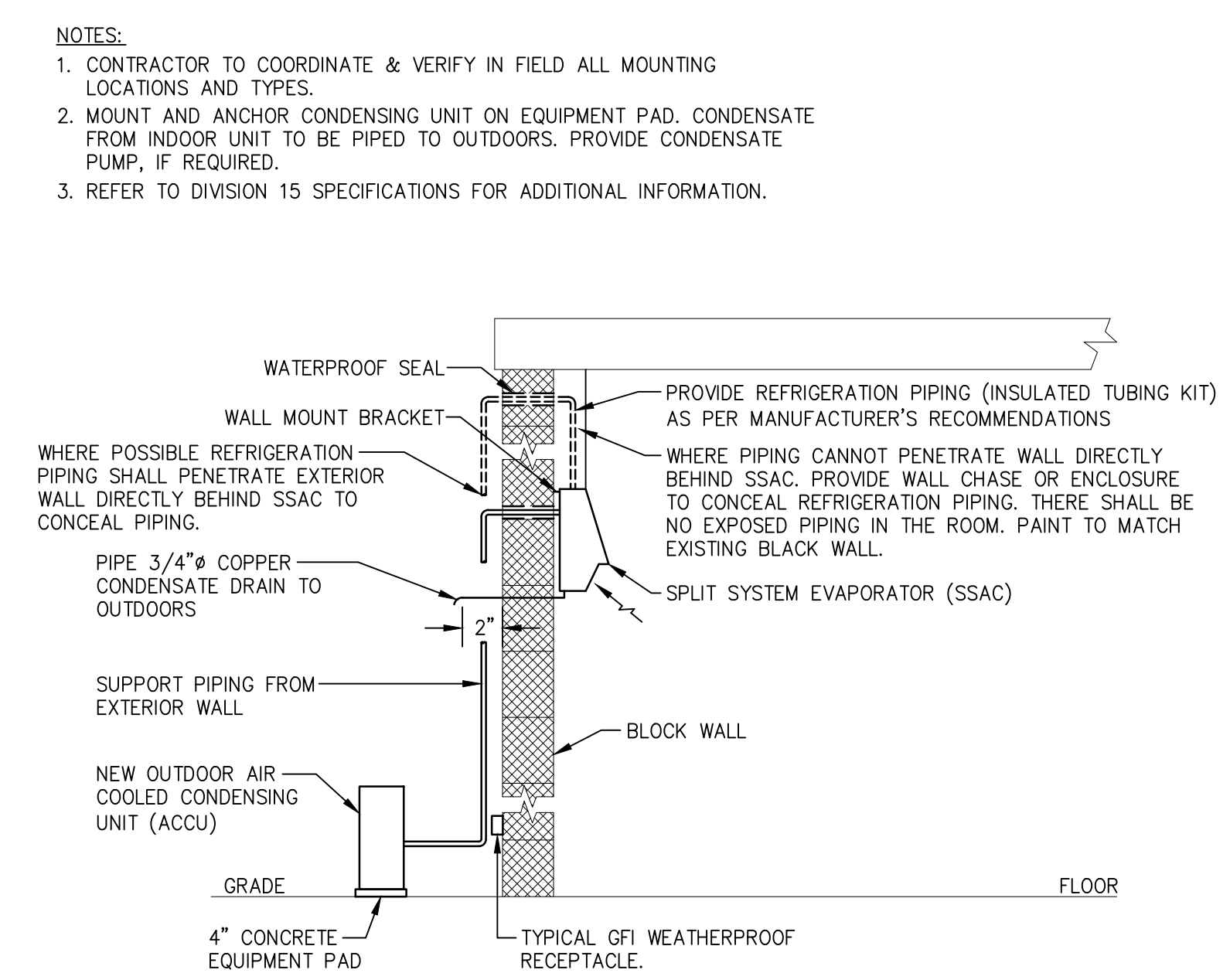


NOTES:
1. CROSS BREAK BOTTOM OF SHEET METAL DRAIN PAN TO PROVIDE SLOPED DRAINAGE TO OUTLET
2. SOLDER OR OTHERWISE SEAL ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT
3. SUSPEND DRAIN PAN WITH EQUIPMENT SUPPORT RODS WHEN POSSIBLE, OTHERWISE ATTACH WITH STRAPS TO EQUIPMENT
4. FABRICATE DRAIN PAN FROM 24 GA GALV SHEET METAL
5. ROUTE DRAIN TO CODE APPROVED CONSPICUOUS LOCATION AND PIPE SEPARATELY FROM CONDENSATE DRAIN PIPE

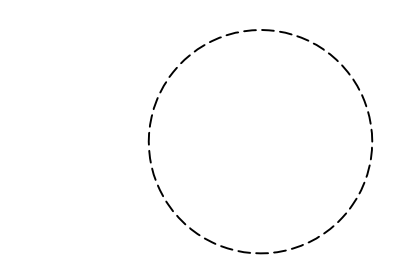
CONDENSATE OVERFLOW DRAIN PAN
N.T.S.



FLEXIBLE BRANCH DUCT WORK
N.T.S.



TYPICAL DUCTLESS SPLIT SYSTEM INSTALLATION DETAIL
N.T.S.



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M-3.2

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VENTILATION SCHEDULE

ROOM NAME	EQUIPMENT TAG NUMBER	APPROX. AREA (SF)	OCCUPANT DENSITY # PEOPLE / 1000 SF	NUMBER OF PEOPLE & / OR FIXTURES	VENTILATION AIR REQUIREMENTS (ASHRAE 62, INTERNATIONAL MECH CODE 2021)										OUTDOOR AIR CORRECTED DESIGN TOTAL (CFM) Vot	EXHAUST AIR DESIGN TOTAL (CFM)	RETURN AIR DESIGN TOTAL (CFM)	SUPPLY AIR DESIGN TOTAL (CFM)	
					PEOPLE OUTDOOR AIRFLOW RATE	TOTAL PEOPLE OUTDOOR AIRFLOW (CFM)	AREA OUTDOOR AIRFLOW RATE	TOTAL AREA OUTDOOR AIRFLOW (CFM)	BREATHING ZONE OUTDOOR AIRFLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS (COOLING) Ez	ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING) Ez	ZONE OUTDOOR AIRFLOW (CFM) Voz	PRIMARY OUTDOOR AIR FRACTION Zp	EXHAUST AIRFLOW RATE					TOTAL EXHAUST AIRFLOW (CFM)
LOBBY 101	FC-1	557	10	6 PEOPLE	3 CFM / PERSON	18	0.06 CFM/SQ FT	33	51	1.0	0.8	64	0.1	N/A	N/A	500	0	0	500
LAB 101	FC-1/ EF-1	400	5	2 PEOPLE	4 CFM / PERSON	8	0.06 CFM/SQ FT	24	32	1.0	0.8	40	0.1	N/A	N/A	400	500	0	400
UNISEX BATHROOM 104	FC-1/ EF-1	48	N/A	1 FIXTURE	N/A	N/A	N/A	N/A	N/A	1.0	0.8	N/A	N/A	70 CFM/FIXTURE	70	50	100	0	50
UNISEX BATHROOM 105	FC-1/ EF-1	48	N/A	1 FIXTURE	N/A	N/A	N/A	N/A	N/A	1.0	0.8	N/A	N/A	70 CFM/FIXTURE	70	50	100	0	50
LOCKER ROOM 106	FC-1/ EF-1	163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	0.8	N/A	N/A	0.5 CFM/SQFT	82	150	250	0	150
LOCKER ROOM 107	FC-1/ EF-1	78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	0.8	N/A	N/A	0.5 CFM/SQFT	39	50	100	0	50
NOTES:	1. VENTILATION RATES ARE CALCULATED IN ACCORDANCE WITH SECTION 403 OF THE 2021 INTERNATIONAL MECHANICAL CODE.																		

CONDENSING UNIT SCHEDULE

TAG	EQUIPMENT SERVED	COOLING		HEATING		CORRECTED COOLING CAPACITY (MBH)	CORRECTED HEATING CAPACITY (MBH)	IEER / EER (MIN.)	CDP (MIN.)	APPROXIMATE WEIGHT (LBS)	UNIT DIMENSIONS (IN) (H x W x D)	ELECTRICAL V/PH/Hz	MIN. CIRCUIT AMPACITY (AMPS)	MAX OVERCURRENT PROT. RTG. (AMPS)	BASIS OF DESIGN	NOTES
		TONnage	MBH (TOTAL)	MBH (TOTAL)	MBH (TOTAL)											
CU-3	FC-1	8.0	96.0	108.0	97.8	81.0	22.15	3.61	653	71.62' x 48.87' x 29.16'	208/3/60	63.0	100	TRANE TPEFY096DA140A	SEE BELOW	
NOTES:	1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB) 2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB) 3. Efficiency values for EER, IEER, CDP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units. 4. Provide added field charge as required as per manufacturers requirements. 5. Corrected capacities shown are based on lowest guaranteed outdoor temperature. 6. Provide Panel Heater Kit to Prevent Ice Buildup on Outdoor Drain Pan															

DUCTLESS SPLIT SYSTEM SCHEDULE

TAG	ROOM SERVED	TYPE	TOTAL HEATING CAPACITY (BTU/HR)	TOTAL COOLING CAPACITY (BTU/HR)	INDOOR UNIT				OUTDOOR UNIT				ELECTRICAL V/PH/Hz	SEER/EER	BASIS OF DESIGN MANUFACTURER	NOTES
					CFM (LOW TO HIGH)	APPROXIMATE UNIT DIMENSIONS (W x D x H) (IN)	WEIGHT (LBS)	MODEL NUMBER	APPROXIMATE UNIT DIMENSIONS (W x D x H) (IN)	WEIGHT (LBS)	MODEL NUMBER					
SSAC-1/ CU-1	103	DUCTLESS	14,000	9,000	137-167-221-304-381	36-7/16 x 9-3/16 x 12 (H11/16)	29	NTXWPH06B112AA	31-1/2 x 11-1/4 x 21-5/8	83	NTXSPB06B112AA	208/1/60	32.2/19.0	TRANE	1,2,3,4,5	
SSAC-2/ CU-2	102	DUCTLESS	14,000	9,000	137-167-221-304-381	36-7/16 x 9-3/16 x 12 (H11/16)	29	NTXWPH06B112AA	31-1/2 x 11-1/4 x 21-5/8	83	NTXSPB06B112AA	208/1/60	32.2/19.0	TRANE	1,2,3,4,5	
NOTES:	1. ELECTRICAL POWER FOR EVAPORATORS IS SUPPLIED FROM CONDENSING UNIT. 2. PROVIDE UNITS WITH WALL MOUNTED REMOTE CONTROLLER KIT BY MITSUBISHI/TRANE, REFRIGERANT PIPING AND CHARGE, MOUNTING EQUIPMENT, AND ALL OTHER ACCESSORIES REQUIRED TO OPERATE AND INSTALL UNIT. 3. PROVIDE UNIT WITH CONDENSATE PUMP. PROVIDE CONDENSATE PUMPS ABOVE CEILING WITH STAINLESS STEEL DRAIN PAN AND OVERFLOW ALARM. 4. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB). 5. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).															

ELECTRIC DUCT HEATER SCHEDULE

TAG	UNITS SERVED	HEATER TYPE	AIRFLOW (CFM)	MAXIMUM STATIC PRESSURE LOSS (IN. W.C.)	INSIDE DUCT WIDTH REQUIRED (IN)	INSIDE DUCT HEIGHT REQUIRED (IN)	EAT	LAT	MBH	KW	ELECTRICAL		BASIS OF DESIGN	NOTES
											V/PH/Hz	AMPS		
EDH-1	FC-1	FINNED TUBULAR	1200	0.10	20	10	55	90	45.4	13.50	208/3/60	37.47	WARREN CBK	1, 2, 3, 4, 5, 6 & 7
NOTES:	1. PROVIDE WITH DISCONNECT SWITCH, STARTER/CONTACTOR AND AIRFLOW SWITCH. 2. PROVIDE WITH SCR CONTROL WITH 0-10VDC INPUT AND PROPORTIONAL CONTROL. 3. PROVIDE WITH AUTOMATIC AND MANUAL THERMAL CUTOFF. 4. PROVIDE WITH DRY CONTACT FOR REMOTE HEATER ENABLE AND CONTROL CIRCUIT TRANSFORMER. 5. HEATER SHALL BE UL LISTED. 6. PROVIDE WITH FUSES. 7. PROVIDE WITH 304 STAINLESS STEEL ELEMENTS.													

EXHAUST FAN SCHEDULE

TAG	ROOMS SERVED/SERVICE	FAN TYPE	CFM	TOTAL S.P. (IN. W.C.)	MAX. RPM	MOTOR HP OR WATTS	DRIVE TYPE	ELECTRICAL V/PH/Hz	SDNES	ROOF / WALL OPENING SIZE	APPROXIMATE WEIGHT (LBS)	BASIS OF DESIGN	NOTES
EF-1	101,104,105,106,107	INLINE	1,950	0.2	1137	1/3	DIRECT	115/1/60	1.9	24"x14"	49	GREENHECK CSP-A1050-VG	1
NOTES:	1. PROVIDE FAN WITH ALUMINUM WHEEL, GALVANIZED STEEL HOUSING, GRAVITY BACKDRAFT DAMPER, FAN SPEED CONTROLLER, UNIT MOUNTED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE (WITH INTEGRAL STARTER), HANGING VIBRATION ISOLATORS, FLEX DUCT CONNECTIONS, INSULATED HOUSING, MOUNTING ACCESSORIES, AND ALL OTHER DEVICES AND ACCESSORIES REQUIRED TO INSTALL AND OPERATE FAN.												

FAN COIL SCHEDULE

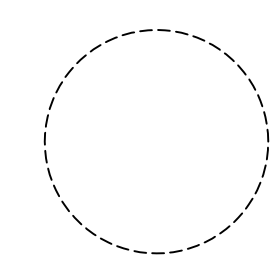
TAG	ROOM(S) SERVED	MOUNTING LOCATION	SERVED BY CONDENSING UNIT	DESIGN SUPPLY AIRFLOW (CFM)	UNIT SUPPLY AIRFLOW (CFM)	DESIGN OUTDOOR AIRFLOW (CFM)	DESIGN TONS	MAX. COOLING CAPACITY (MBH)	MAX. HEATING CAPACITY (BTUH)	APPROXIMATE DIMENSIONS (H x W x D)	BASIS OF DESIGN	ELECTRICAL V/PH/Hz	MCA	MDOA	NOTES
FC-1	100,101,106,107	CEILING	CU-3	1200	1200	1,200	8	96	57	18.5' x 49.25' x 44.13'	TRANE TPEFY096DA140A	208/1/60	4.8	15	SEE BELOW
NOTES:	1. PROVIDE SYSTEM WITH TEMPERATURE & HUMIDITY SENSORS, CONTROLLERS, REFRIGERANT PIPING AND CHARGE, AUXILIARY DRAIN PAN, AND ALL REQUIRED MOUNTING ACCESSORIES. PROVIDE ALL CONTROL DEVICES REQUIRED TO OPERATE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS. 3. PROVIDE WITH SECONDARY DRAIN PAN AND WATER LEVEL ALARM 4. PROVIDE FIELD FABRICATED FILTER BOX. COORDINATE LOCATION FOR SERVICING AND ACCESSIBILITY.														

GRAVITY VENTILATOR SCHEDULE

TAG	SERVICE	SYSTEM(S) SERVED	CFM	ROOF OPENING	THROAT AREA (SQ. FT.)	NUMBER OF TIERS	INTAKE AREA (SQ. FT.)	HOOD SIZE	BASIS OF DESIGN	NOTES
GIV-1	INTAKE	FC-1	1,200	26" x 26"	1.4	1	3.02	29" DIA.	GREENHECK GRSI-16	1
GRV-1	RELIEF	EXHAUST	1,050	12"x18"	1.5	1	N/A	26"x 39"	GREENHECK GRM-FGR	1
NOTES:	1. PROVIDE WITH BIRDSCREEN, ROOF CURB, AND AUTOMATIC BACKDRAFT DAMPER									

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	DESCRIPTION	FACE	NECK	DIRECTION	BASIS OF DESIGN			NOTES
					MANUFACTURER	MODEL NUMBER	PRICE	
A	DIFFUSER	24"x24"	8"ø	SUPPLY	ASCB	ASCB	1,2,3,4,5	
B	DIFFUSER	24"x24"	6"ø	SUPPLY	ASCB	ASCB	1,2,3,4,5	
C	REGISTER	12"x12"	12"x12"	EXHAUST	80	80	1,2,3,4,5	
D	REGISTER	12"x10"	12"x10"	EXHAUST	80	80	1,2,3,4,5	
E	REGISTER	10"x8"	10"x8"	EXHAUST	80	80	1,2,3,4,5	
F	REGISTER	24"x24"	24"x24"	RETURN	630	630	1,2,3,4,5	
G	REGISTER	12"x12"	12"x12"	RETURN	630	630	1,2,3,4,5	
H	REGISTER	16"x16"	16"x16"	RETURN	630	630	1,2,3,4,5	
NOTES:	1. COORDINATE MOUNTING FRAME WITH CEILING/WALL TYPE. 2. COORDINATE COLOR & FINISH WITH ARCHITECT. 3. PROVIDE GRILLE WITH BORDER FLANGE FOR LAY-IN TYPE CEILINGS. SEE PLANS FOR LOCATIONS. 4. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPERS. 5. NC (NOISE CRITERIA) LEVEL MAY BE NO GREATER THAN 25.							



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SHEET CONTENTS:

MECHANICAL SCHEDULES

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date: 10.08.24
Scale: AS SHOWN
Drawn by: B.K.
Checked by:
Job No.: 2241869
Drawing No.:

M-4.1

ISSUED FOR BID
DATE: 01-10-2025

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NJ PROFESSIONAL ENGINEER LIC. NO. 40059

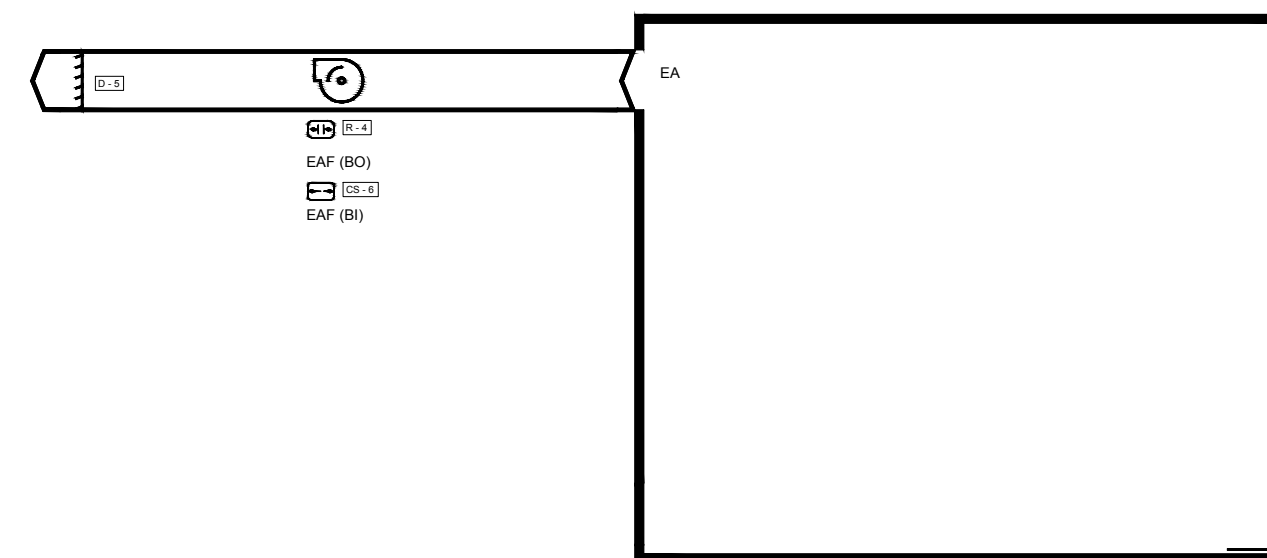
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Points List: FAN COIL

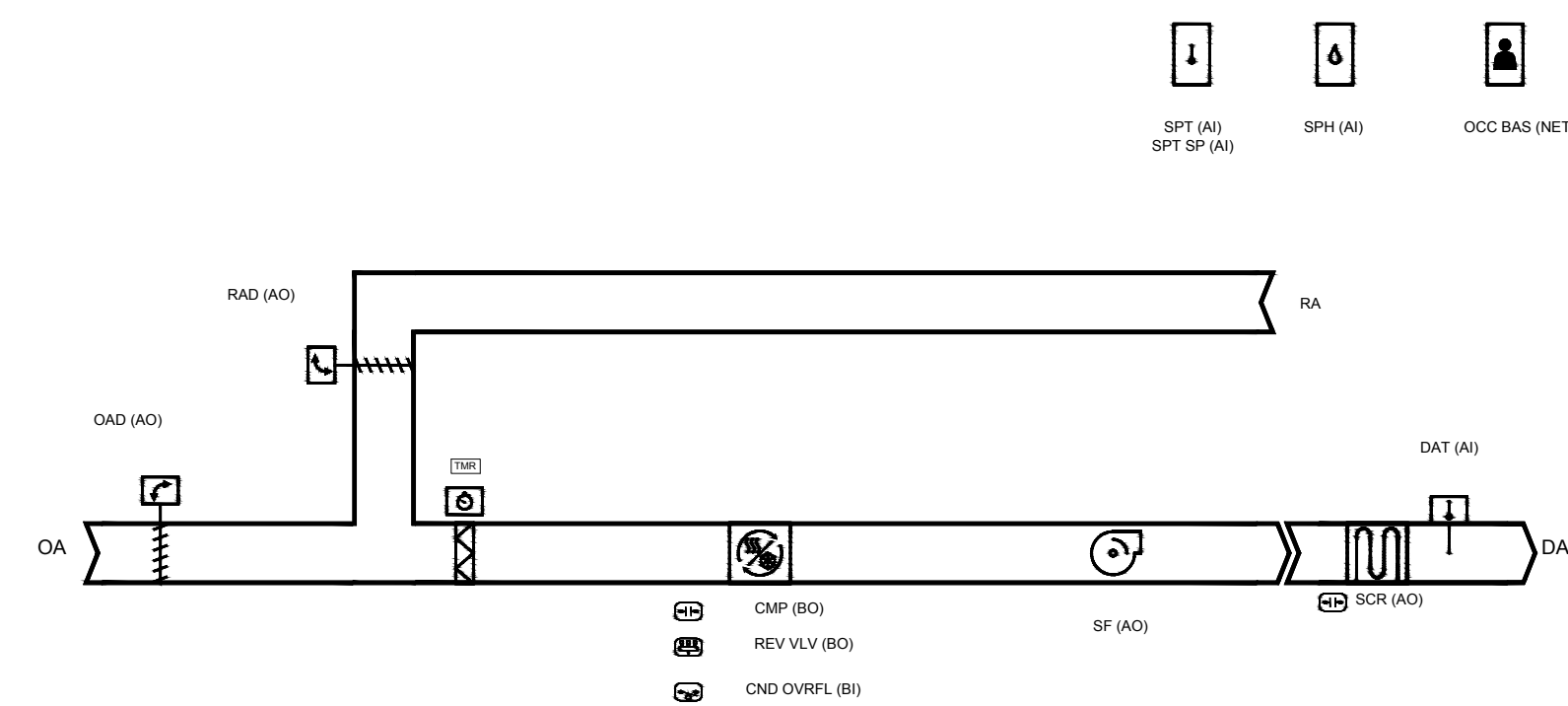
System Point Description	POINTS										ALARMS				
	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
SUPPLY FAN SF	X			X											
COMPRESSOR COMMAND CMP				X											
CONDENSATE OVERFLOW DETECTION LOCAL CND OVRFL	X	X										X	X		
DISCHARGE AIR TEMPERATURE DAT	X	X								X	X			X	
ELECTRIC HEAT SCR	X			X											
OUTDOOR AIR DAMPER OAD	X			X											
RETURN AIR DAMPER RAD	X			X											
REVERSING VALVE REV VLV	X			X											
SPACE HUMIDITY LOCAL SPH	X	X													
SPACE TEMPERATURE LOCAL SPT	X	X								X	X			X	
SPACE TEMPERATURE SETPOINT LOCAL SPT SP	X	X													
BAS COMMUNICATION STATE BAS COM					X										X
FILTER TIMER HOURS FIL HRS				X								X	X		
MAINTENANCE REQUIRED MNT REQ				X								X			
SPACE TEMPERATURE SETPOINT ACTIVE SPT SP ACT	X			X											
OCCUPIED BYPASS TIMER OCC TMR				X											
OCCUPANCY BAS OCC BAS	X								X						

Points List: EXHAUST FAN

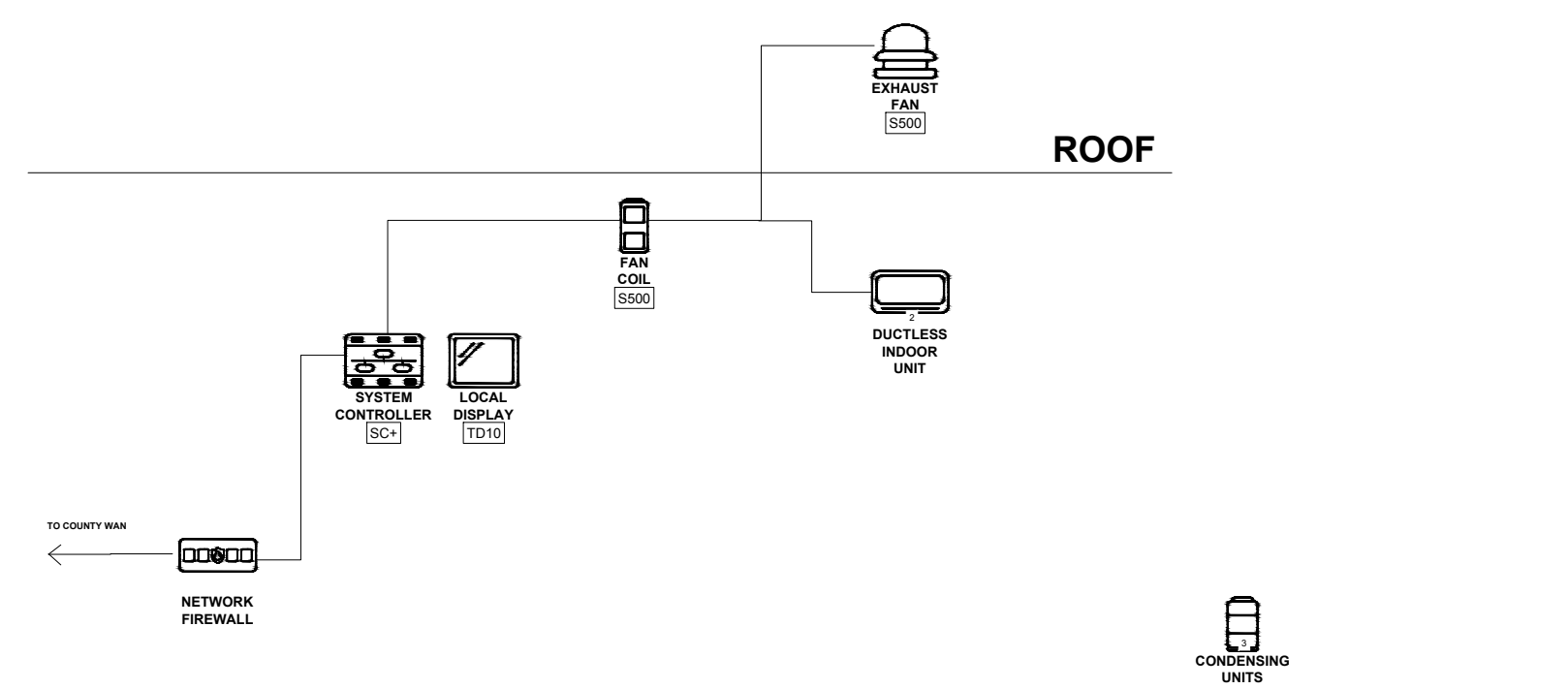
System Point Description	POINTS										ALARMS				
	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
EXHAUST FAN STATUS EAF	X			X											
EXHAUST FAN START STOP COMMAND EAF	X				X										
BAS COMMUNICATION STATE BAS COM						X									



Flow Diagram: EXHAUST FAN

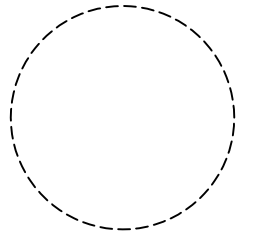


Flow Diagram: FAN COIL



BUILDING AUTOMATION SYSTEM CONTROL SCHEMATIC

N. T. S.



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SHEET CONTENTS:

MECHANICAL SCHEMATICS

PROJECT TITLE:
RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
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Drawn by: B.K.
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Drawing No.:

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M-4.2

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ELECTRICAL SYMBOLS

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

Table of electrical symbols including LED light fixtures, switches, receptacles, conduit, and various sensors. Includes notes like 'SHADE AREA INDICATES FACE' for exit signs.

Table of electrical symbols including MV switch gear, ground rods, motors, disconnect switches, starters, and communication equipment like cameras and intercoms.

Table of electrical symbols including gas detectors, emergency shutoffs, boiler shutoffs, door locks, door holders, and various types of outlets and trays.

ABBREVIATIONS

Table of abbreviations for units of measurement, materials, and electrical components like conduit, wire, and equipment.

Table of abbreviations for electrical symbols like signal, transformer, and various types of conductors.

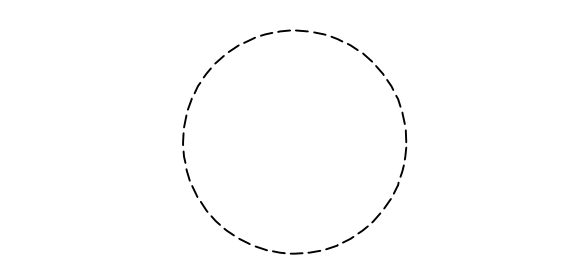
Table titled 'STANDARD MOUNTING HEIGHTS' listing dimensions for switches, receptacles, and other components relative to the centerline of boxes.

Table titled 'WIRE & CONDUIT SIZING SCHEDULE' showing wire sizes (AWG/KCMIL) and corresponding conduit sizes in inches for different conductor counts.

GENERAL NOTES

- List of 27 general notes detailing installation requirements for electrical equipment, including grounding, clearance, and coordination with other trades.

Logo for NETTARCHITECTS with contact information for New Jersey, Florida, and New York offices.



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ELECTRICAL COVER SHEET

PROJECT TITLE: RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION: XXX

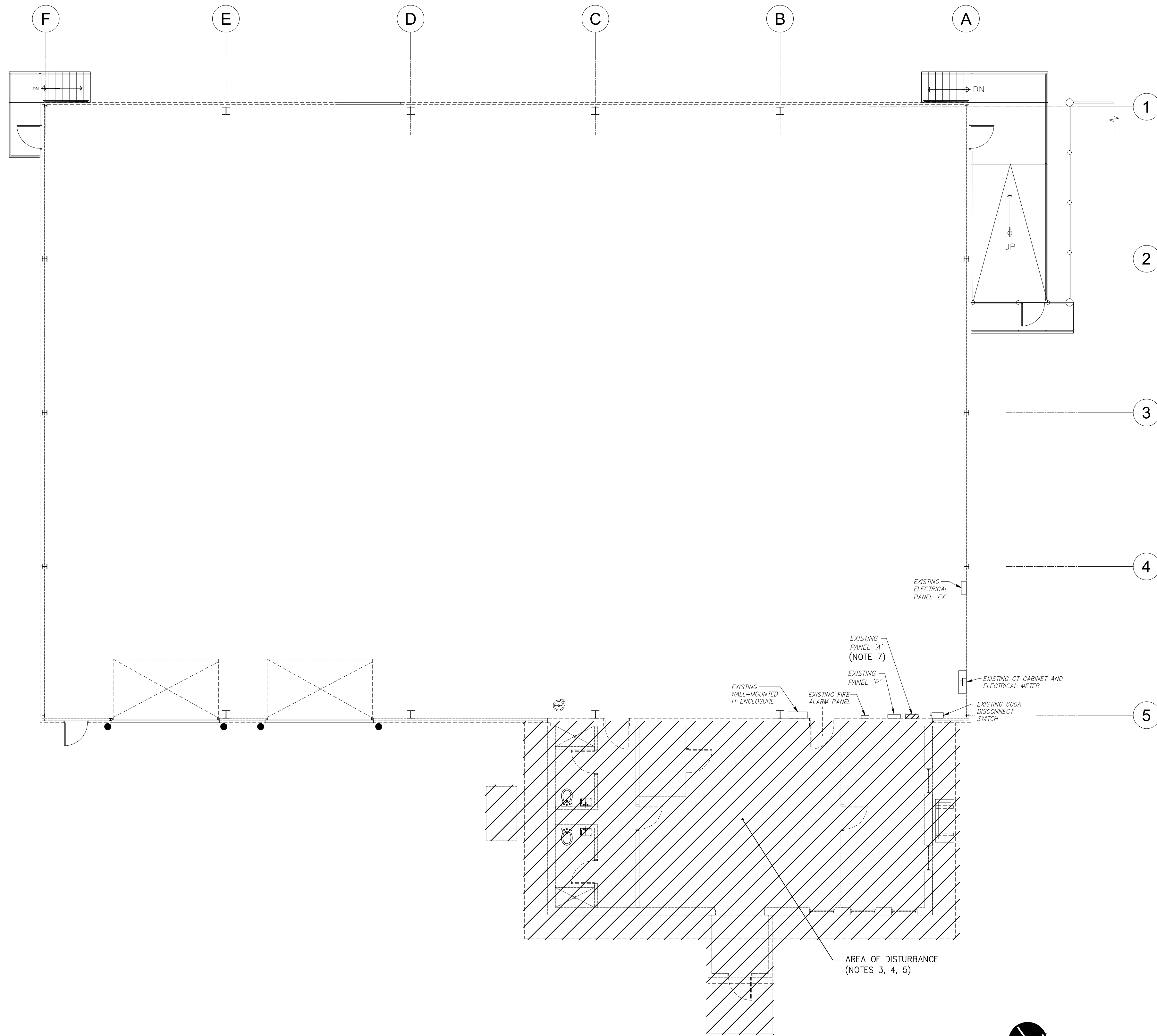
Table with columns for DATE, REVISIONS, BY, and CHKD.

Table for submission tracking: Date (10.08.24), Scale (AS SHOWN), Drawn by (C.P.), Checked by, Job No. (2241869), Drawing No.

Logo for RVE REMINGTON & VERNICK ENGINEERS, 2059 SPRINGDALE ROAD, CHERRY HILL, NJ 08003. Includes contact info and a professional seal for KAVAN R. SMITH.

ISSUED FOR BID DATE: 01-10-2025

E-1.0



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

DEMOLITION NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS ARE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONSTRUCTION, DEMOLITION AND DISRUPTION TEMPORARY POWER BY MEANS OF PORTABLE GENERATOR(S) TO MAINTAIN ADEQUATE ELECTRICAL POWER REQUIREMENTS FOR THE DURATION OF DEMOLITION AND RENOVATION FOR NEW OFFICE SPACE.
4. CONTRACTOR SHALL DEMOLISH ALL EXISTING ELECTRICAL INFRASTRUCTURE THAT INCLUDE ALL CONDUCTORS, CONDUITS, JUNCTION BOXES, PANELBOARDS, RACEWAYS, ETC. IN ITS ENTIRETY BACK TO SOURCE.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR THE DISCONNECTION AND REMOVAL OF ALL HVAC CONDENSING UNITS, SPLIT SYSTEM UNITS, ETC. DEMOLISH EXISTING WIRING, RACEWAYS, CONTROLS, ETC. BACK TO SOURCE.
6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING AND RESTORING ANY AREAS OF FLOOR, CEILING AND/OR WALLS DAMAGED AS A RESULT OF NEW WORK. RESTORED, REPAIRED, OR REPLACED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
7. CONTRACTOR SHALL DISCONNECT AND SALVAGE EXISTING CIRCUITS IN EXISTING PANEL 'A'. CONTRACTOR SHALL DEMOLISH EXISTING PANEL 'A' AND PREP FOR NEW.

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DATE: _____
KAVAN R. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

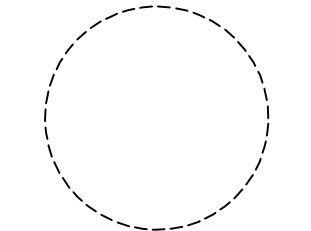
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CERTIFICATE OF AUTHORIZATION AC-438



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SHEET CONTENTS:

ELECTRICAL DEMOLITION FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:

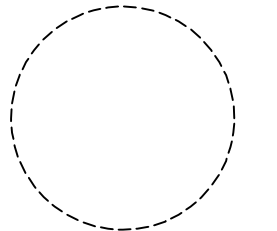
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DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869
Drawing No.	

E-1.1

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SHEET CONTENTS:

ELECTRICAL LIGHTING FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

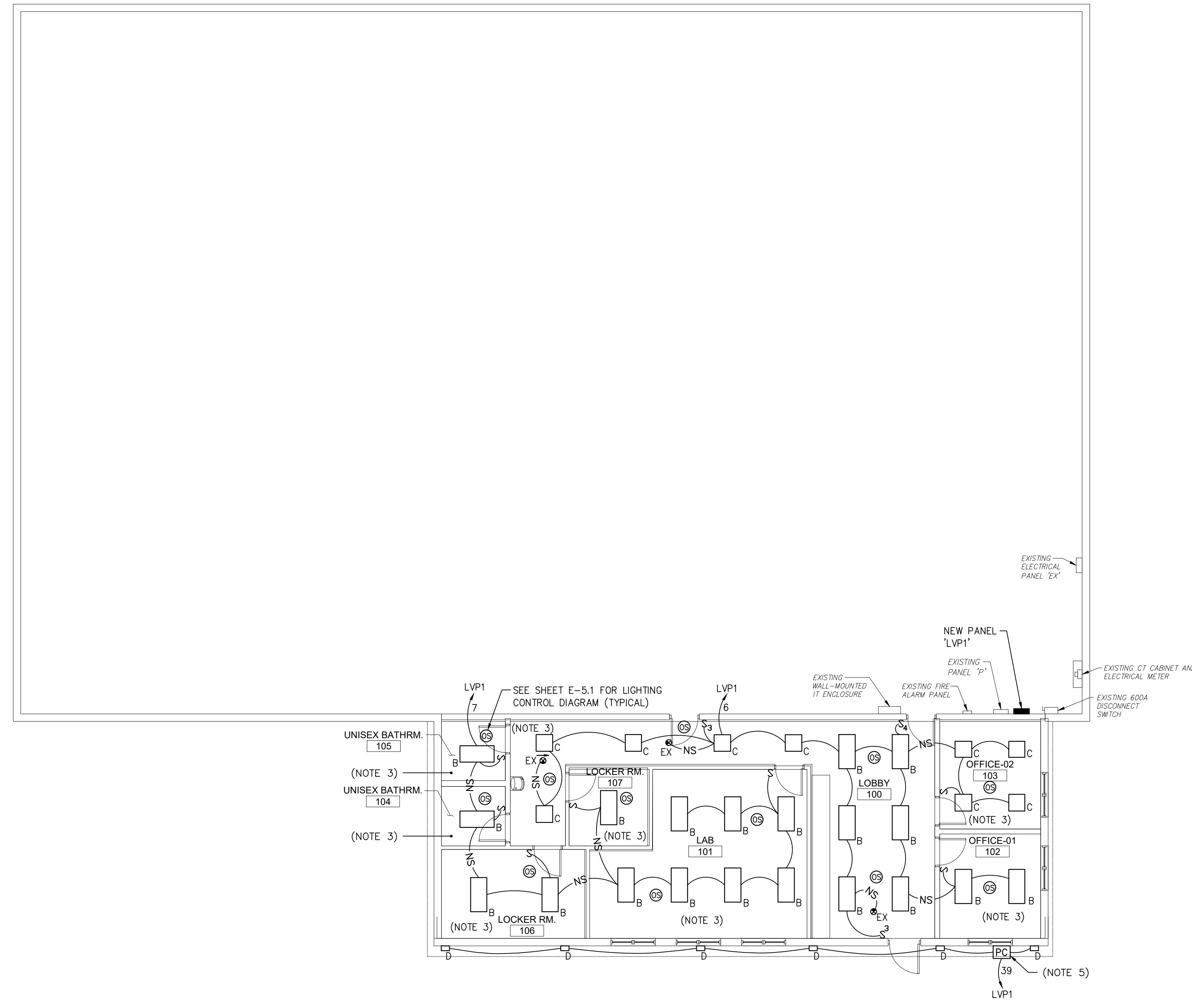
SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869
Drawing No.	

E-2.1



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

- NOTES:**
- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
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 - CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWING A-601 REFLECTED CEILING PLAN FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING FIXTURE LOCATIONS.
 - PROVIDE 0-10V DIMMING CONTROL WIRING AS REQUIRED.
 - PROVIDE SURFACE MOUNTED PHOTOCELL FOR EXTERIOR LIGHTING FIXTURES.

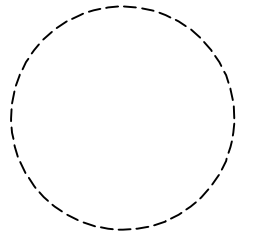
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 NJ PROFESSIONAL ENGINEER LIC. No. 56794

ISSUED FOR BID
 DATE: 01-10-2025

P:\Projects\Burlington County\2024\2241869\2241869-E-2.1_Electrical Lighting Floor Plan.dwg 1/10/2025 2:30:58 PM



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SHEET CONTENTS:

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
 BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP.
 BURLINGTON CO. NJ

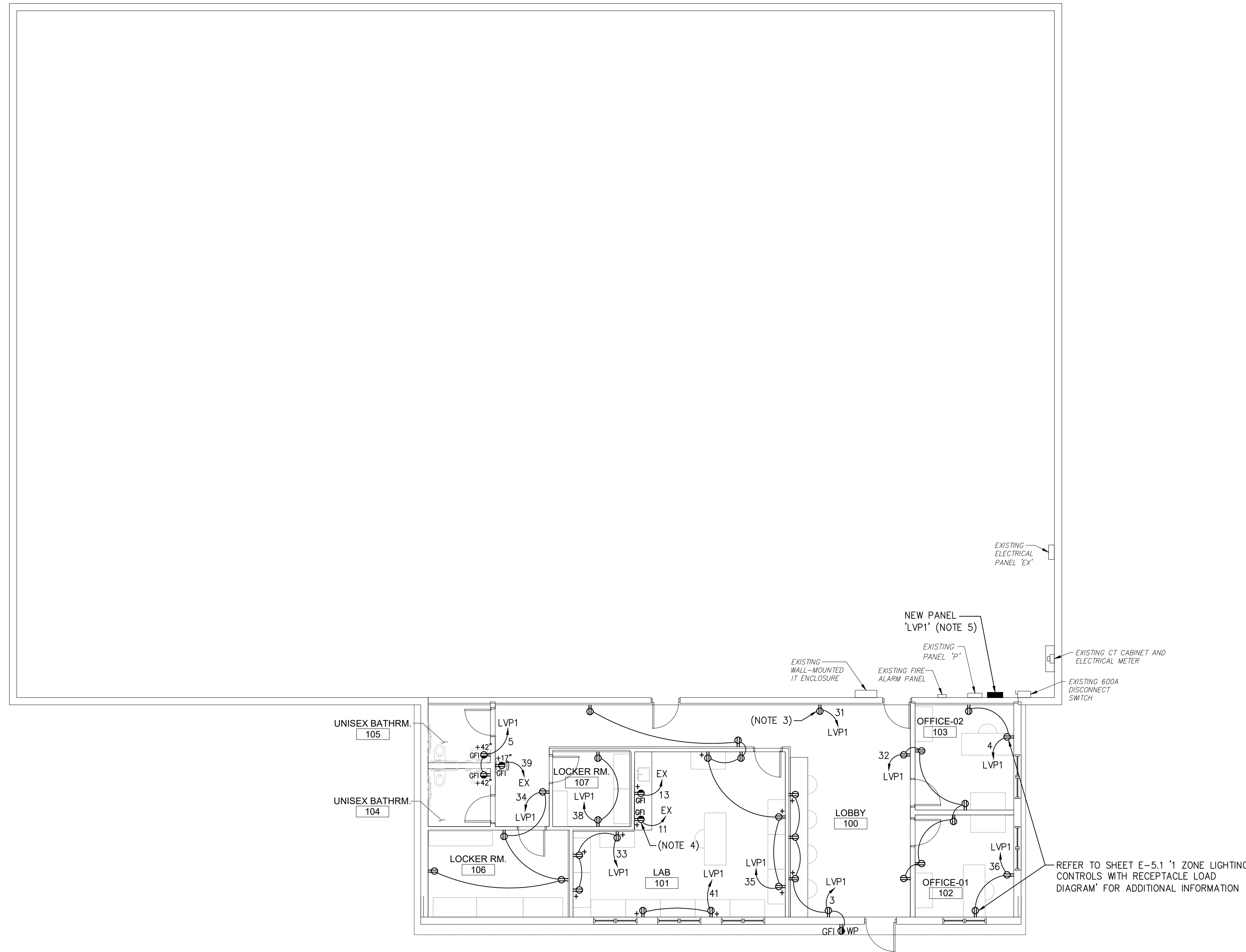
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DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869
Drawing No.	

E-3.1



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

NOTES:

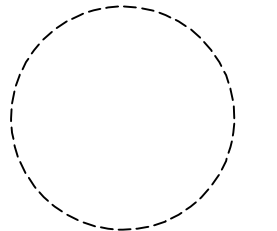
- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
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- COORDINATE EXACT LOCATION OF PRINTER PRIOR TO ROUGH-IN INSTALLATION OF DEDICATED DUPLEX RECEPTACLE WITH OWNER.
- COORDINATE EXACT LOCATION OF MICROWAVE PRIOR TO ROUGH-IN INSTALLATION OF DEDICATED GF1 DUPLEX RECEPTACLE WITH OWNER.
- 'LVP1': CONTRACTOR SHALL EXTEND/PROVIDE ALL NECESSARY HARDWARE, RACEWAYS, WIRING, AND ALL ELECTRICAL DEVICES FOR A COMPLETE INSTALLATION.

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SHEET CONTENTS:

ELECTRICAL HVAC POWER FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

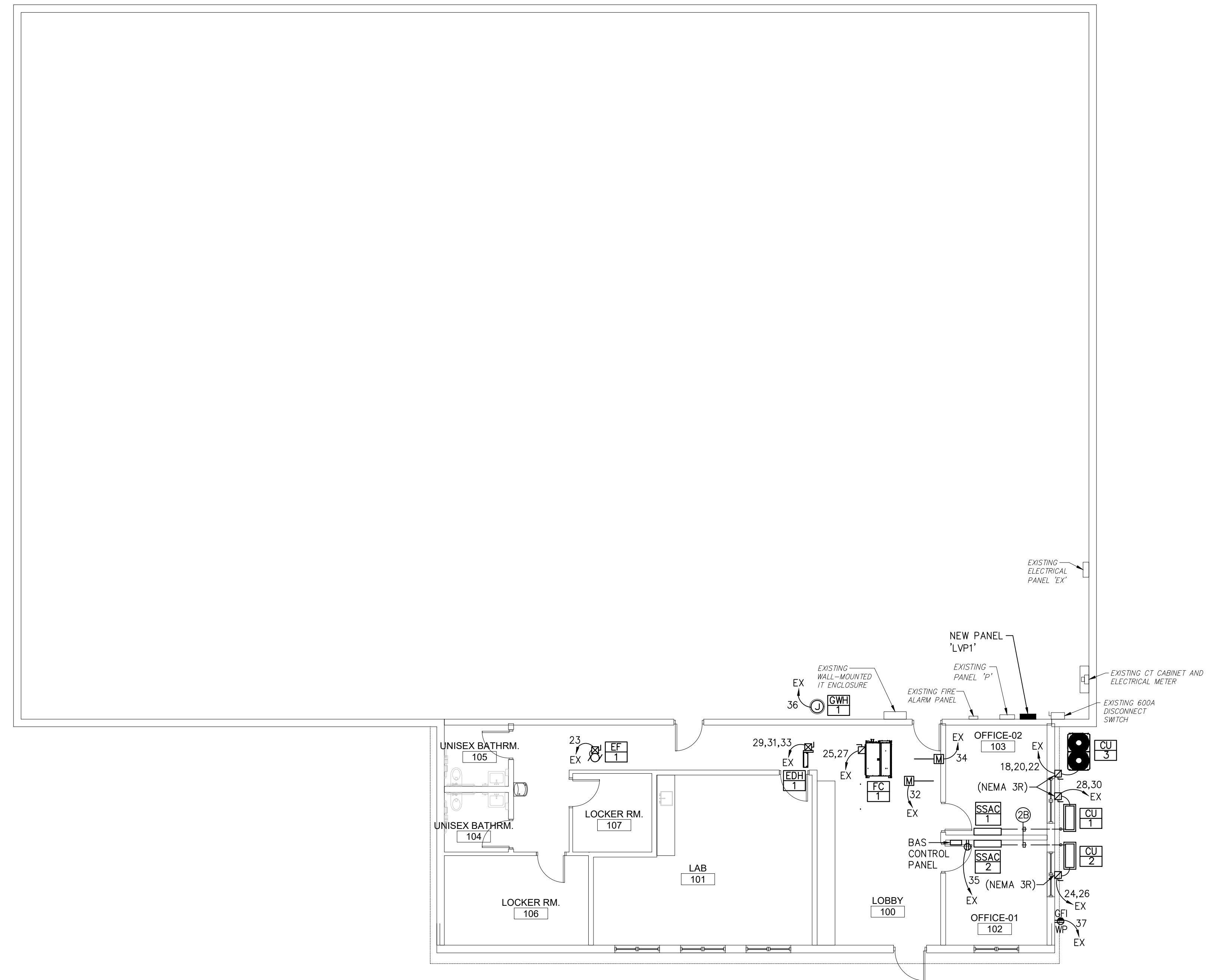
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Drawn by	C.P.
Checked by	
Job No.	2241869
Drawing No.	

E-3.2



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

NOTES:

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- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH HVAC CONTROLS CONTRACTOR FOR ALL LOW-VOLTAGE WIRING REQUIREMENTS.

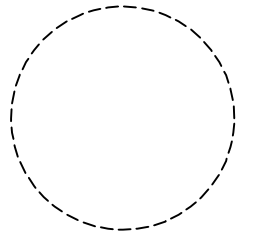
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SHEET CONTENTS:

ELECTRICAL SYSTEMS FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

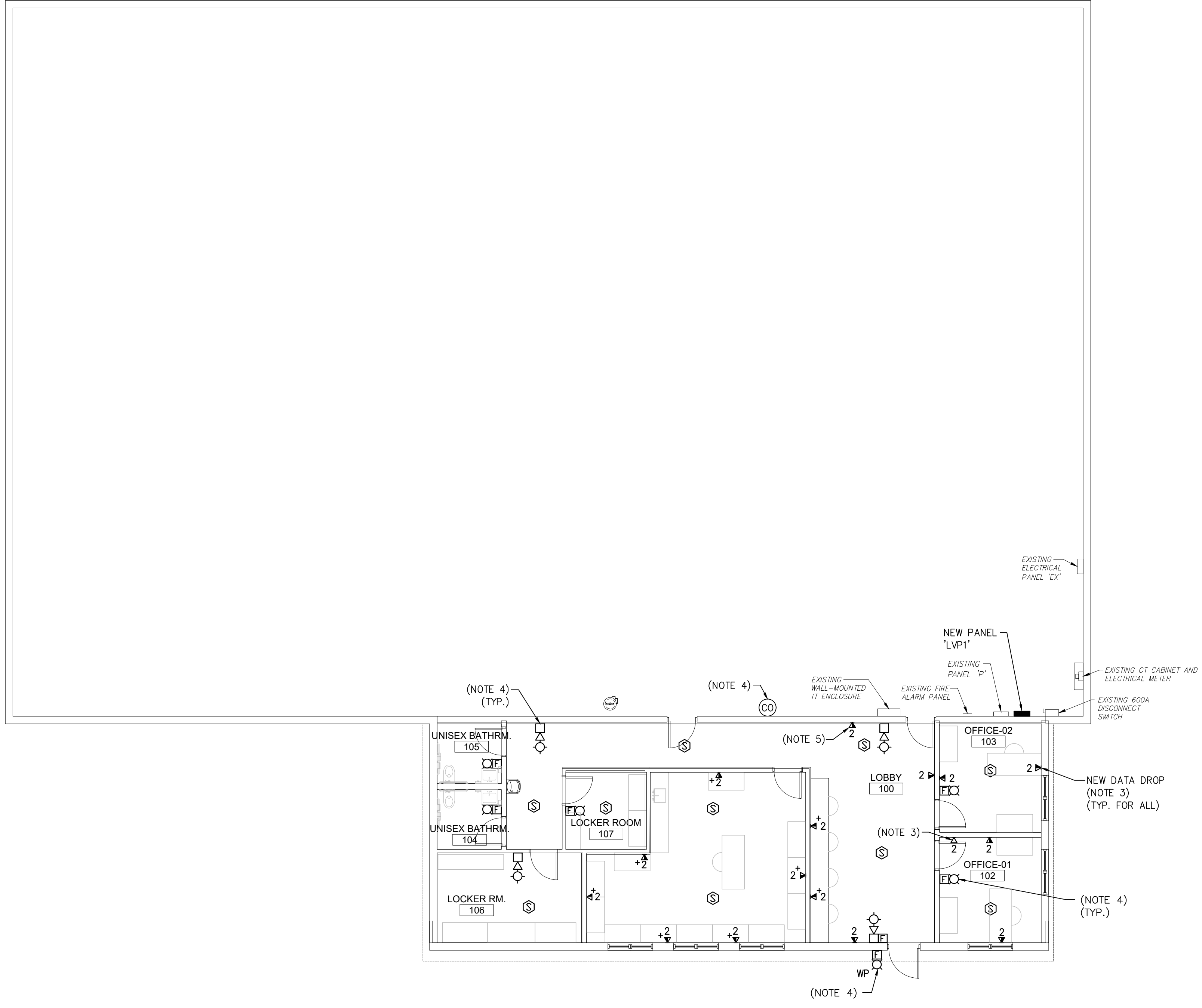
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Job No.	2241869
Drawing No.	

E-4.1



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

- NOTES:**
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 - CONTRACTOR SHALL ROUTE NEW CAT6 CABLING TO EXISTING WALL-MOUNTED IT ENCLOSURE LOCATED IN MAINTENANCE GARAGE. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.
 - PROVIDE ALL WIRING, CONDUIT, PROGRAMMING, TESTING, EXPANSION CARDS, SLAVE FIRE ALARM CONTROL PANELS, ETC. TO CONNECT NEW FIRE ALARM DEVICES INTO THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72. FIELD VERIFY THE LOCATION, BRAND, CATALOG NUMBER OF ALL EXISTING FIRE ALARM PANELS, CONTROLLERS, DEVICES, ETC. AND INCLUDE ALL COSTS FOR THE CONNECTION OF THE NEW FIRE ALARM DEVICES IN THE CONTRACTOR'S BID.
 - COORDINATE EXACT LOCATION OF PRINTER PRIOR TO ROUGH-IN INSTALLATION OF DATA OUTLET WITH OWNER.

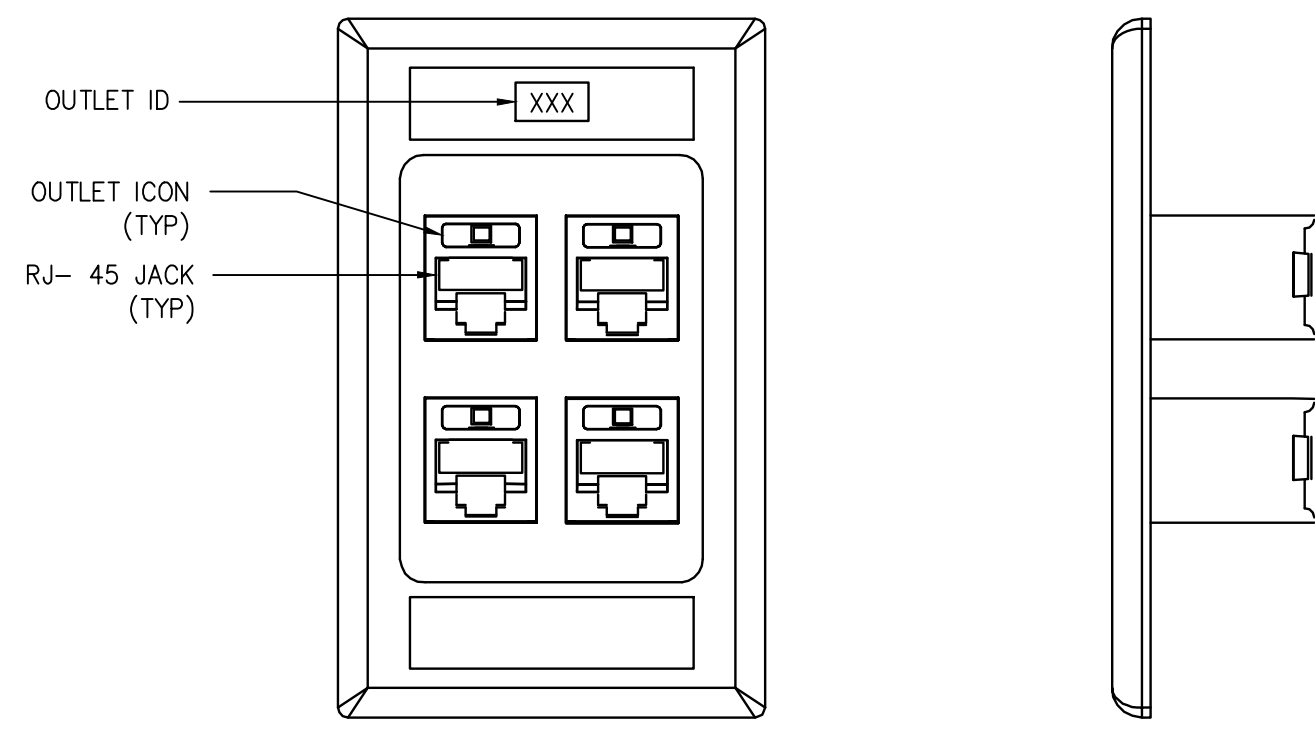
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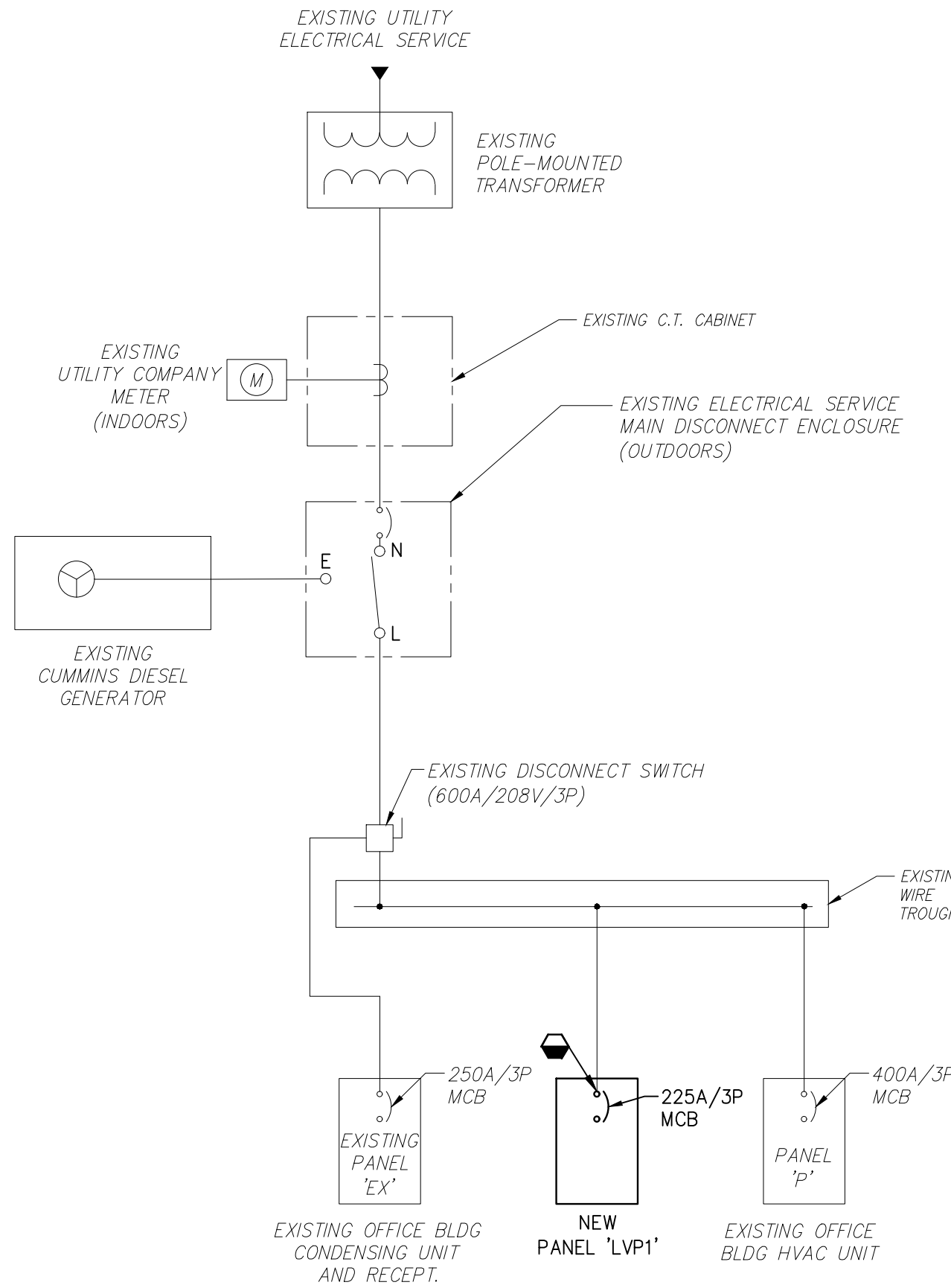
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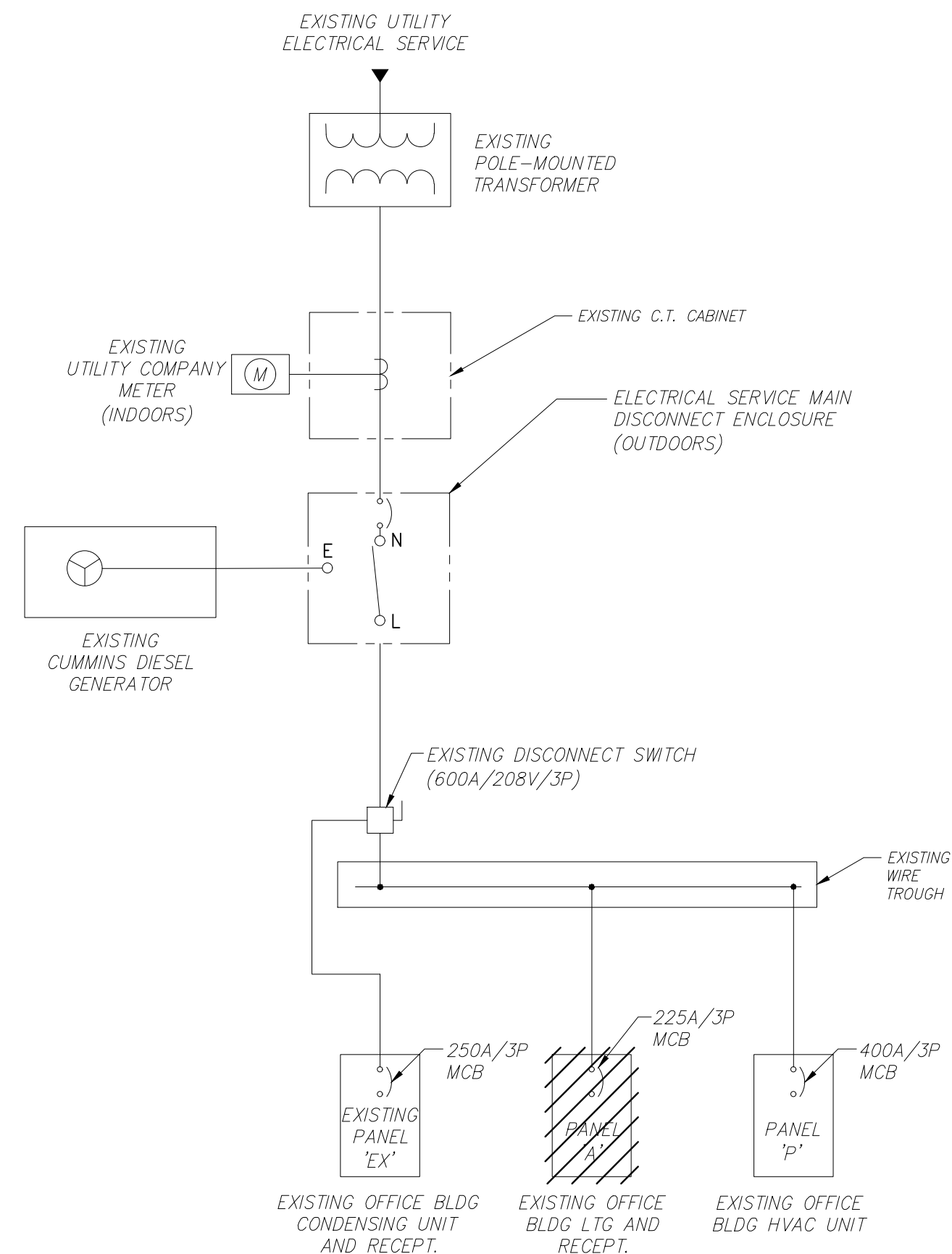
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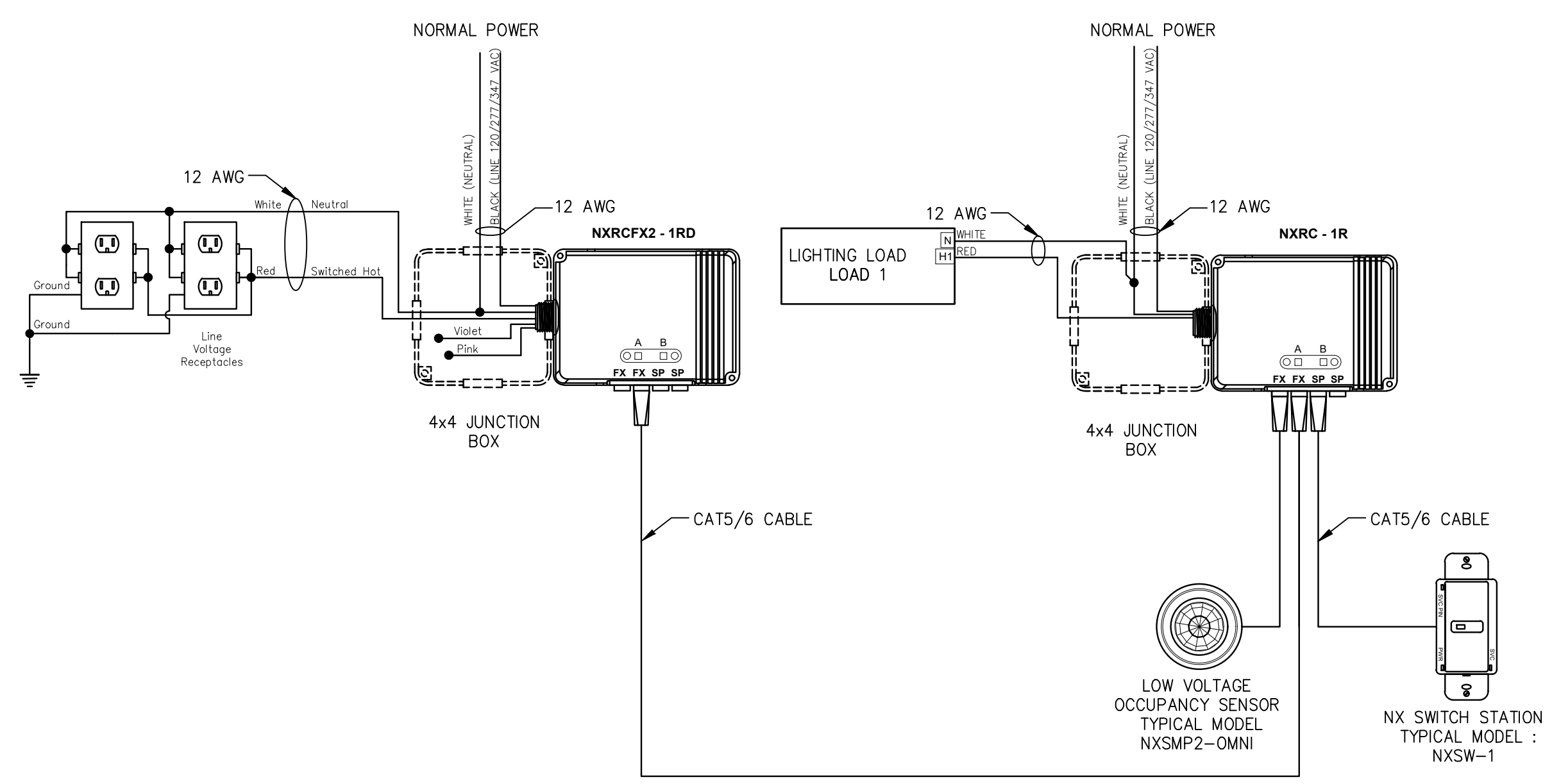
3 2-PORT DATA OUTLET
N.T.S.



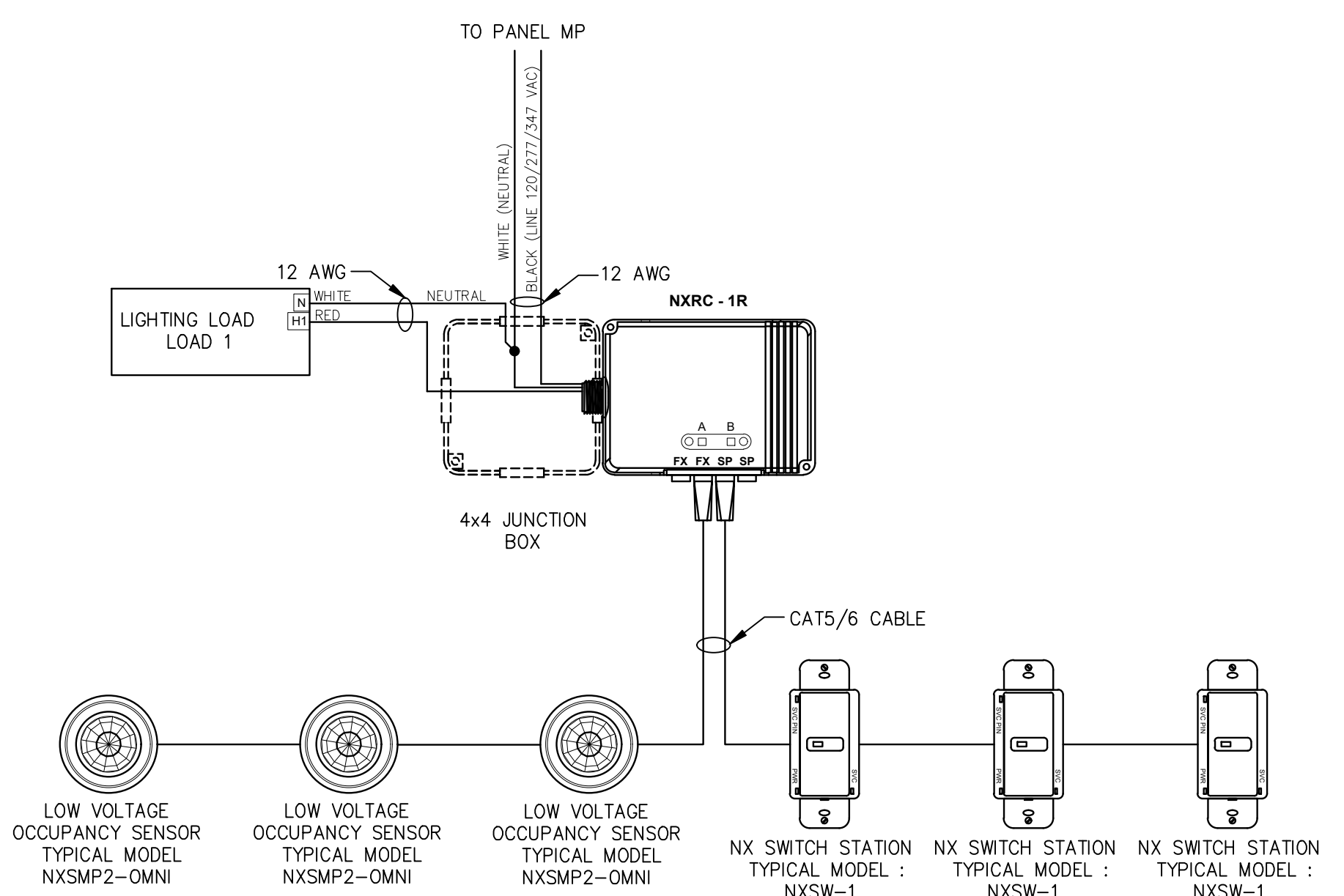
2 ELECTRICAL PROPOSED SINGLE LINE DIAGRAM
N.T.S.



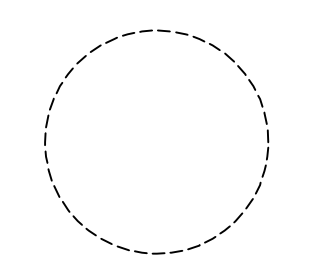
1 ELECTRICAL DEMOLITION SINGLE LINE DIAGRAM
N.T.S.



5 1 ZONE LIGHTING CONTROLS WITH RECEPTACLE LOAD DIAGRAM
SCALE: N.T.S.



4 TYPICAL LIGHTING CONTROL DIAGRAM
SCALE: N.T.S.



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SHEET CONTENTS:

ELECTRICAL SINGLE LINE DIAGRAM AND DETAILS

PROJECT TITLE:
RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

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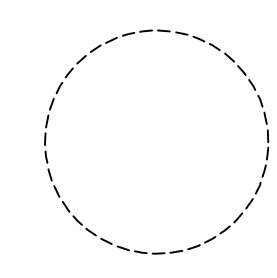
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SHEET CONTENTS:

ELECTRICAL SCHEDULES

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
 BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP.
 BURLINGTON CO. NJ

SUBMISSION:

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DATE	REVISIONS	BY	CHKD

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 Scale: AS SHOWN
 Drawn by: C.P.
 Checked by:
 Job No.: 2241869
 Drawing No.:

E-5.2

EXISTING PANEL 'EX' (SQUARE D CAT# NQ442L2C)																					
VOLTAGE: 208Y/120V, 3ø, 4W+G				X MCB 250A / 3P				POLES: 42				AIC RATING: 10,000									
MAIN BUS: 225A				MLO				MTG. SURFACE				LOCATION: MAINTENANCE GARAGE									
Ckt #	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA PER PHASE			REMARKS	REMARKS	kVA PER PHASE			DESCRIPTION	BRANCH	CIRCUIT BREAKER	Ckt #					
					A	B	C			A	B	C					CIRCUIT	POLE	TRIP		
1	20	1	EXISTING	REC	EXIST					EXIST			REC	EXISTING	1	20	2				
3	20	1	EXISTING	REC	EXIST					EXIST			REC	EXISTING	1	20	4				
5	20	2	EXISTING	HEAT	EXIST	EXIST				EXIST	EXIST		HEAT	EXISTING	2	20	6				
7	20	1	EXISTING	FREEZER	EXIST	EXIST				EXIST			HEAT	EXISTING	2	20	8				
11	20	1	2A	MICROWAVE RECEPTACLE			1.20	LAB 101 (NOTE 1)		EXIST	EXIST		CONDENSING UNIT	EXISTING	2	30	10				
13	20	1	2A	GFI RECEPTACLE	0.18			LAB 101 (NOTE 1)		EXIST							16				
15	20	1		SPACE						EXIST							18				
19	20	3	EXISTING	BATTERY CHARGER	EXIST				EXTERIOR	7.56	7.56		CU-3	10C	3	100	20				
21					EXIST				(NOTE 1)	7.56							22				
23	15	1	2A	EF-1			0.86	LOCKER RM. 107 (NOTE 1)	EXTERIOR			1.14	CU-2	2B	2	15	24				
25	15	2	2B	FC-1	0.50			LOBBY 100	(NOTE 1)	1.14							26				
27					0.50				EXTERIOR		1.14		CU-1	2B	2	15	28				
29						4.49			(NOTE 1)		1.14						30				
31	50	3		EDH-1	4.49			LOBBY 100 (NOTE 1)	LOBBY 100 (NOTE 1)	0.10			MOTORIZED DAMPER	2A	1	20	32				
33						4.49			LOBBY 100 (NOTE 1)	0.10			MOTORIZED DAMPER	2A	1	20	34				
35	20	1	2A	BAS CONTROL PANEL			0.50	OFFICE 102 (NOTE 1)	MAIN GAR. (NOTE 1)		0.10		GWH-I (IGNITER)	2A	1	20	36				
37	20	1	2A	ICE MAKER	0.70			MAIN BLDG. (NOTE 1)					SPACE				38				
39	20	1	2A	ELECTRIC WATER FOUNTAIN	0.60			CORRIDOR (NOTE 1)					SPACE				40				
41				SPACE			0.87			0.80	0.80	0.94	SPACE				42				
					0.87	0.59	7.05						8.80	8.80	9.94						
128 TOTAL CONNECTED LOAD (AMPS)														TOTAL CONNECTED LOAD (kVA)				46.05			

NOTES: 1. PROVIDE A COMPATIBLE BRANCH CIRCUIT BREAKER.

NEW PANEL: 'LVP1' (REPLACE EXISTING PANEL 'A' WITH NEW)																					
VOLTAGE: 208Y/120V, 3ø, 4W+G				X MCB 225A/3P				POLES: 42				AIC RATING: 42,000									
MAIN BUS: 250A				MLO				MTG. SURFACE				LOCATION: MAINTENANCE GARAGE									
Ckt #	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA PER PHASE			REMARKS	REMARKS	kVA PER PHASE			DESCRIPTION	BRANCH	CIRCUIT BREAKER	Ckt #					
					A	B	C			A	B	C					CIRCUIT	POLE	TRIP		
1	20	1	EXISTING	GEN. BATT. CHG.	EXIST					EXIST			GEN. RECEPT	EXISTING	1	20	2				
3	20	1	2A	GENERAL RECEPTACLES	0.90			LOBBY 100	OFFICE 103	0.36			GENERAL RECEPTACLES	2A	1	20	4				
5	20	1	2A	GFI RECEPTACLES		0.36		BATHROOM 104 & 105	OFFICE BLDG.	0.62			GENERAL LIGHTING	2A	1	20	6				
7	20	1	2A	GENERAL LIGHTING	0.53			OFFICE BLDG.		EXIST			TIME CLOCK	EXISTING	1	20	8				
9	20	1	EXISTING	SOFFIT LIGHTS	EXIST					EXIST			ICE MACHINE	EXISTING	2	15	10				
11	30	1	EXISTING	WAREHOUSE LIGHTS		EXIST					EXIST						12				
13	30	1	EXISTING	WAREHOUSE LIGHTS	EXIST					EXIST			WAREHOUSE RECTS.	EXISTING	1	20	14				
15	20	1	EXISTING	WHSE. LIGHTS	EXIST					EXIST			MICROWAVE / TOASTER	EXISTING	1	20	16				
17	30	1	EXISTING	WHSE. LIGHTS		EXIST				EXIST			EXISTING LOAD	EXISTING	1	30	18				
19	30	1	EXISTING	WHSE. LIGHTS	EXIST					EXIST			WHSE RECTS.	EXISTING	1	20	20				
21	20	1	EXISTING	EXIT & EMERY LIGHTS	EXIST					EXIST			208V RECTS.	EXISTING	2	20	22				
23	20	2	EXISTING	LIGHT TIMER		EXIST					EXIST						24				
25				SALT BENS	EXIST					EXIST			GEN. HTR.	EXISTING	1	20	26				
27	20	1	EXISTING	DRIVEWAY LIGHTS	EXIST					EXIST			PHONE	EXISTING	1	20	28				
29	20	1	EXISTING	FIRE ALARM SYSTEM		EXIST				EXIST			PIT LIGHT	EXISTING	1	20	30				
31	20	1	2A	PRINTER RECEPTACLE	1.20			LOBBY 100	LOBBY 100	1.08			GENERAL RECEPTACLES	2A	1	20	32				
33	20	1	2A	LAB RECEPTACLES	0.54			LAB 101	LOCKER RM. 106	0.72			GENERAL RECEPTACLES	2A	1	20	34				
35	20	1	2A	LAB RECEPTACLES		1.08		LAB 101	OFFICE 102	0.36			GENERAL RECEPTACLES	2A	1	20	36				
37	20	1	2A	GFI SERVICE RECEPTACLE	0.18			EXTERIOR	LOCKER RM. 107	0.36			GENERAL RECEPTACLES	2A	1	20	38				
39	20	1	2A	EXTERIOR LIGHTING	0.23			EXTERIOR					SPARE		1	20	40				
41	20	1	2A	LAB RECEPTACLES		0.36		LAB 101					SPARE		1	20	42				
					1.91	1.67	1.80						1.44	1.08	0.88						
25 TOTAL CONNECTED LOAD (AMPS)														TOTAL CONNECTED LOAD (kVA)				8.88			

NOTES:

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 DATE: 01-10-2025

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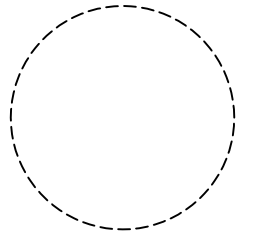
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 NJ PROFESSIONAL ENGINEER LIC. NO. 40059

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SHEET CONTENTS:

PLUMBING DEMOLITION FLOOR PLAN

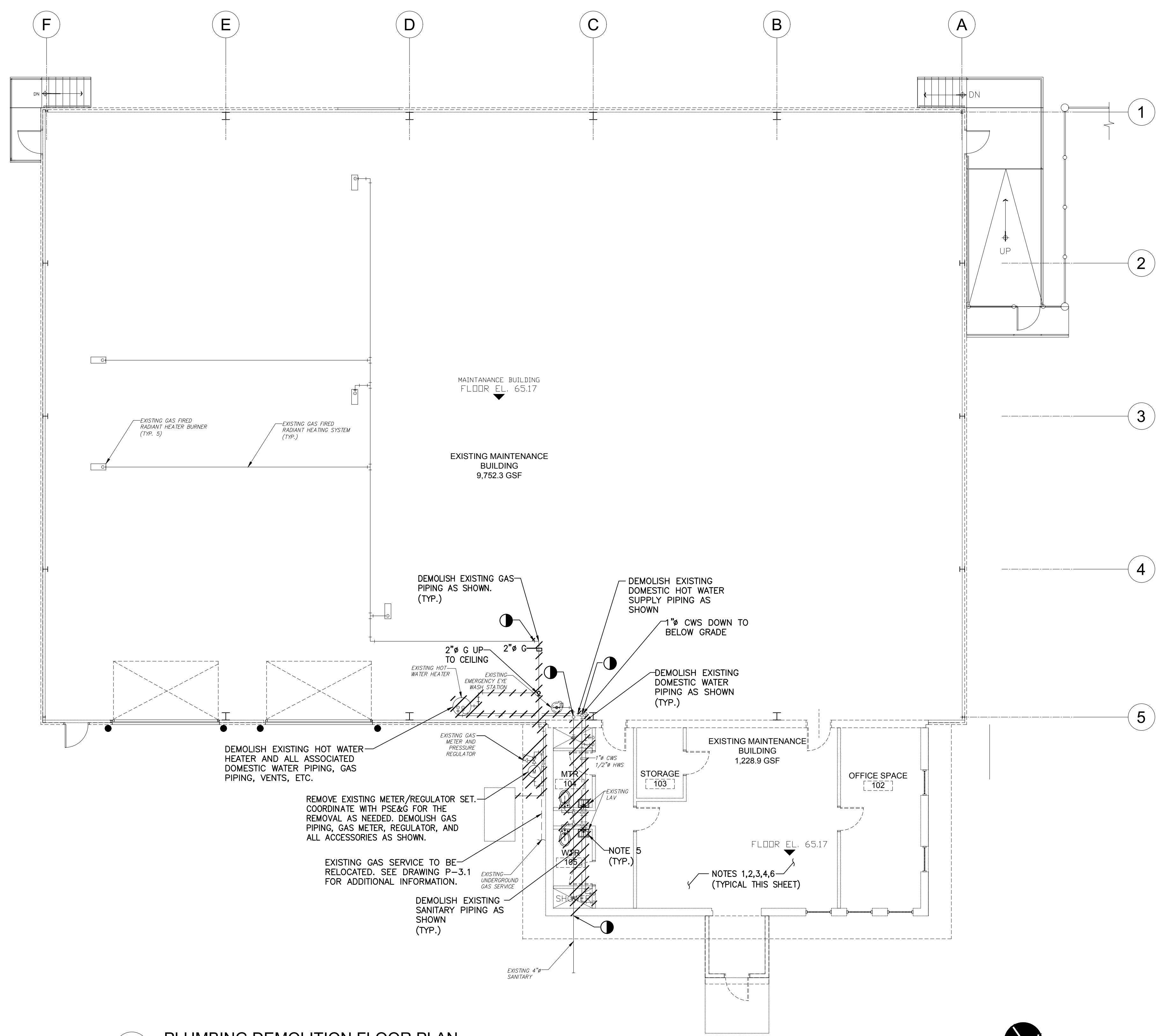
PROJECT TITLE:
RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
 XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869
Drawing No.	

P-1.1



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

NOTES:

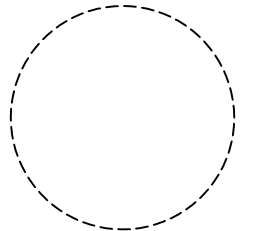
- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING & REPLACING ANY OR ALL FIXTURES AND/OR AREAS OF THE CEILING, FLOOR OR WALL DAMAGED AS A RESULT OF THE NEW/DEMOLITION WORK. REPAIRED & REPLACED FIXTURES AND PORTIONS OF THE CEILING, FLOOR, OR WALL SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
- COORDINATE THE DEMOLITION OF EXISTING PLUMBING EQUIPMENT WITH OWNER. OWNER SHALL RESERVE THE RIGHT TO RETAIN SALVAGED EQUIPMENT. ALL EQUIPMENT NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
- FIXTURE AND COMPONENT DEMOLITION SHALL INCLUDE THE FIXTURE OR COMPONENT ELEMENT, ALL TRIM COMPONENTS, FAUCETS, FLUSH VALVES, CARRIERS, SUPPLIES, TRAPS AND RELATED ACCESSORIES.
- PIPING DEMOLITION SHALL INCLUDE DOMESTIC WATER, SANITARY, AND/OR VENT PIPING, NATURAL GAS, HANGERS, INSULATION, VALVES, FITTINGS AND ASSOCIATED ELEMENTS.

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DATE:
CHRISTOPHER A. SAPONARO
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P:\Projects\Burlington County\Burlington County\SheetP-1.1\Plumbing Demolition floor Plan.rvt 10/08/24 4:04:04 PM



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SHEET CONTENTS:

PLUMBING SANITARY PIPING FLOOR PLAN

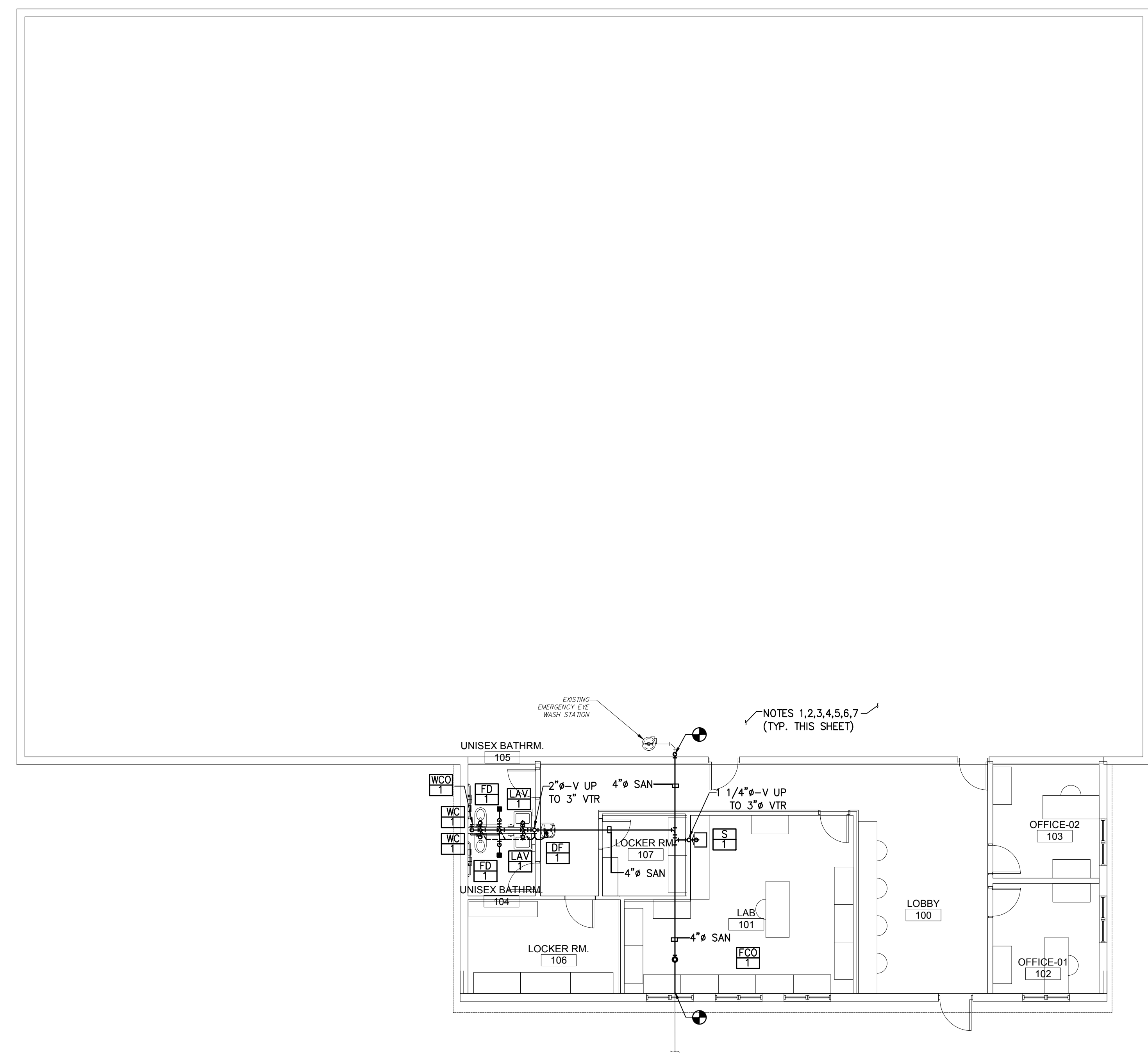
PROJECT TITLE:
RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
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DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869
Drawing No.	

P-2.1



1 PLUMBING SANITARY PIPING FLOOR PLAN
 SCALE: 1/8"=1'-0"

NOTES:

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION OF 0.00. COORDINATE ALL INVERTS WITH SITE DRAWINGS, SITE CONTRACTOR, AND FIELD CONDITIONS PRIOR TO INSTALLING SANITARY PIPE.
- ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES THROUGH 6" IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 8 INCHES AND LARGER IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/16" PER FOOT IN THE DIRECTION OF FLOW.
- CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CAN NOT BE LOCATED IN WALLS. THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
- COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE NEW PIPE TO ACCOMMODATE NEW DUCTWORK, EQUIPMENT, STRUCTURE, CONDUIT, ETC.
- NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
- SANITARY DRAINAGE AND VENT PIPING SHALL BE CAST IRON, SEE SPECIFICATION SECTION 221422 AND 221316 FOR ADDITIONAL REQUIREMENTS.

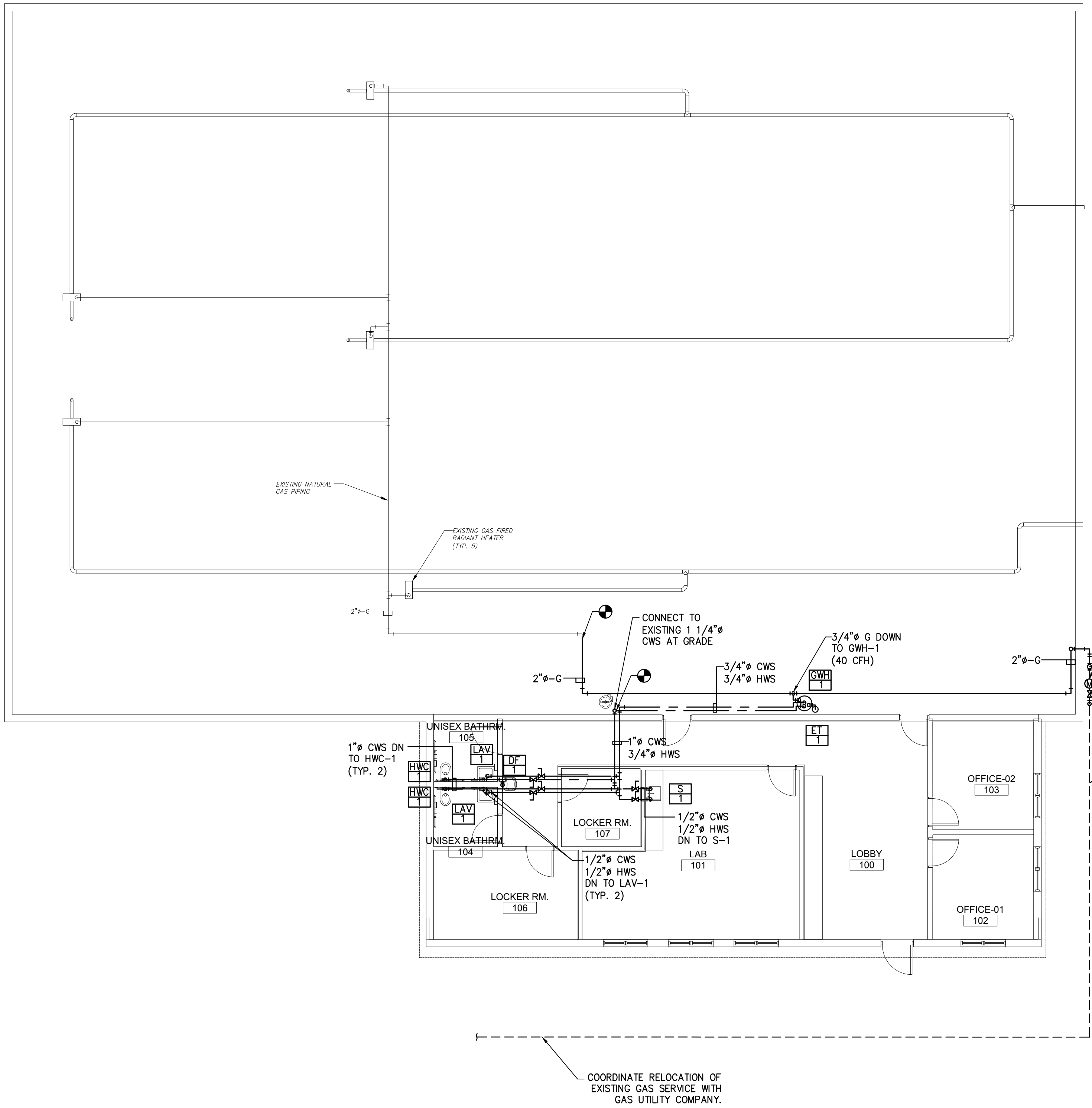
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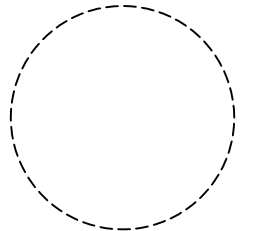
DATE:
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 NJ PROFESSIONAL ENGINEER LIC. NO. 40059

P:\Projects\Burlington County\08030178\SheetP-2.1 Plumbing Sanitary Piping Floor Plan.dwg 10/08/24 4:08 PM



- NOTES:**
- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
 - COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
 - NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, WATER HAMMER ARRESTORS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
 - PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
 - DOMESTIC WATER PIPING SHALL BE SOLDERED COPPER TUBE. SEE CONTRACT SPECIFICATION SECTION 221116.
 - CONTRACTOR SHALL PROVIDE ALL CUTTING, EXCAVATION, BACKFILL AND REPAIR OF ALL FLOORS, WALLS, ETC. TO PROVIDE THE WORK. ALL FLOORS, WALLS, ETC. THAT HAVE BEEN SAWCUT/DEMOLISHED TO PROVIDE THE WORK SHALL BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONSTRUCTION.
 - PROVIDE METAL ENCLOSURE AROUND INSULATED PIPING TO CONCEAL AND PROTECT ALL VERTICAL PIPING. PAINT TO MATCH WALL COLOR.
 - PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINE WHERE BRANCH LINES CONNECT TO MAINS.
 - FUEL GAS PIPING SHALL BE STEEL PIPE. PAINT ALL EXPOSED FUEL GAS PIPING (INCLUDING VENTS) IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE CONTRACT SPECIFICATION SECTION 231123.
 - ALL GAS PRESSURE REGULATORS SHALL BE RATED AT THE MAXIMUM EMERGENCY PRESSURE OF 5 PSI.
 - ALL GAS PRESSURE REGULATORS SHALL BE SERVICE CLASS FUEL GAS PRESSURE REGULATORS.
 - APPROXIMATE LAYOUT OF PROPOSED PIPING IS SHOWN. CONTRACTOR TO VERIFY PIPING LAYOUT IN FIELD AND PROVIDE ALL LABOR AND MATERIALS TO AVOID INTERFERENCES. COORDINATE FINAL LAYOUT OF PIPING IN FIELD.
 - PROVIDE ALL GAS PIPING IN ACCORDANCE WITH THE 2021 INTERNATIONAL FUEL GAS CODE.

1 PLUMBING UTILITY PIPING FLOOR PLAN
SCALE: 1/8"=1'-0"



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SHEET CONTENTS:

PLUMBING UTILITY PIPING FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:

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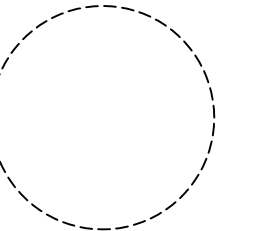
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DATE:
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P:\Projects\Burlington County\20241007\Sheet\F03.1 Plumbing Utility Piping Floor Plan.rvt 10/08/24 10:12 PM



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SHEET CONTENTS:

PLUMBING RISER DIAGRAMS

PROJECT TITLE:
RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:
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DATE	REVISIONS	BY	CHKD

Date	10.08.24
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Job No.	2241869
Drawing No.	

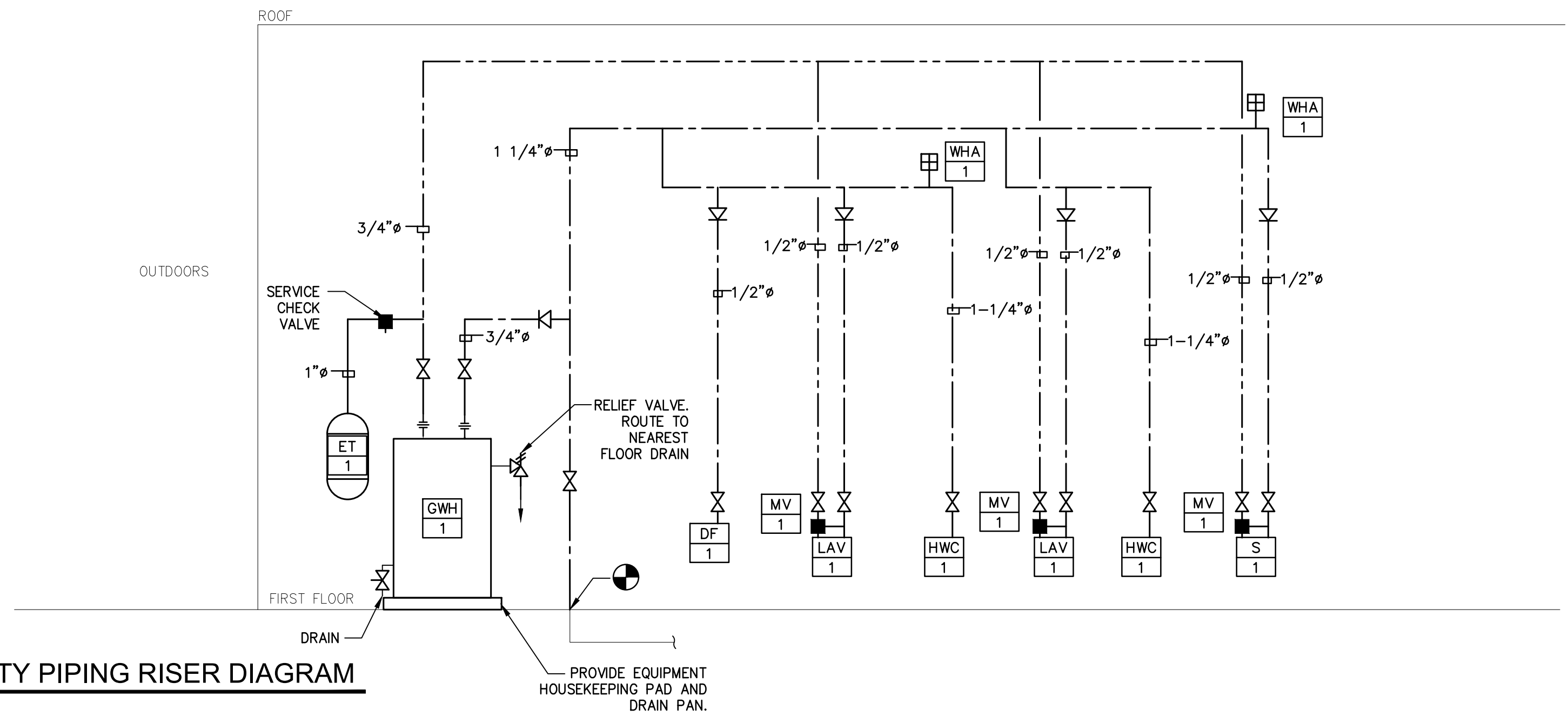
P-4.1

UTILITY PIPING RISER DIAGRAM NOTES:

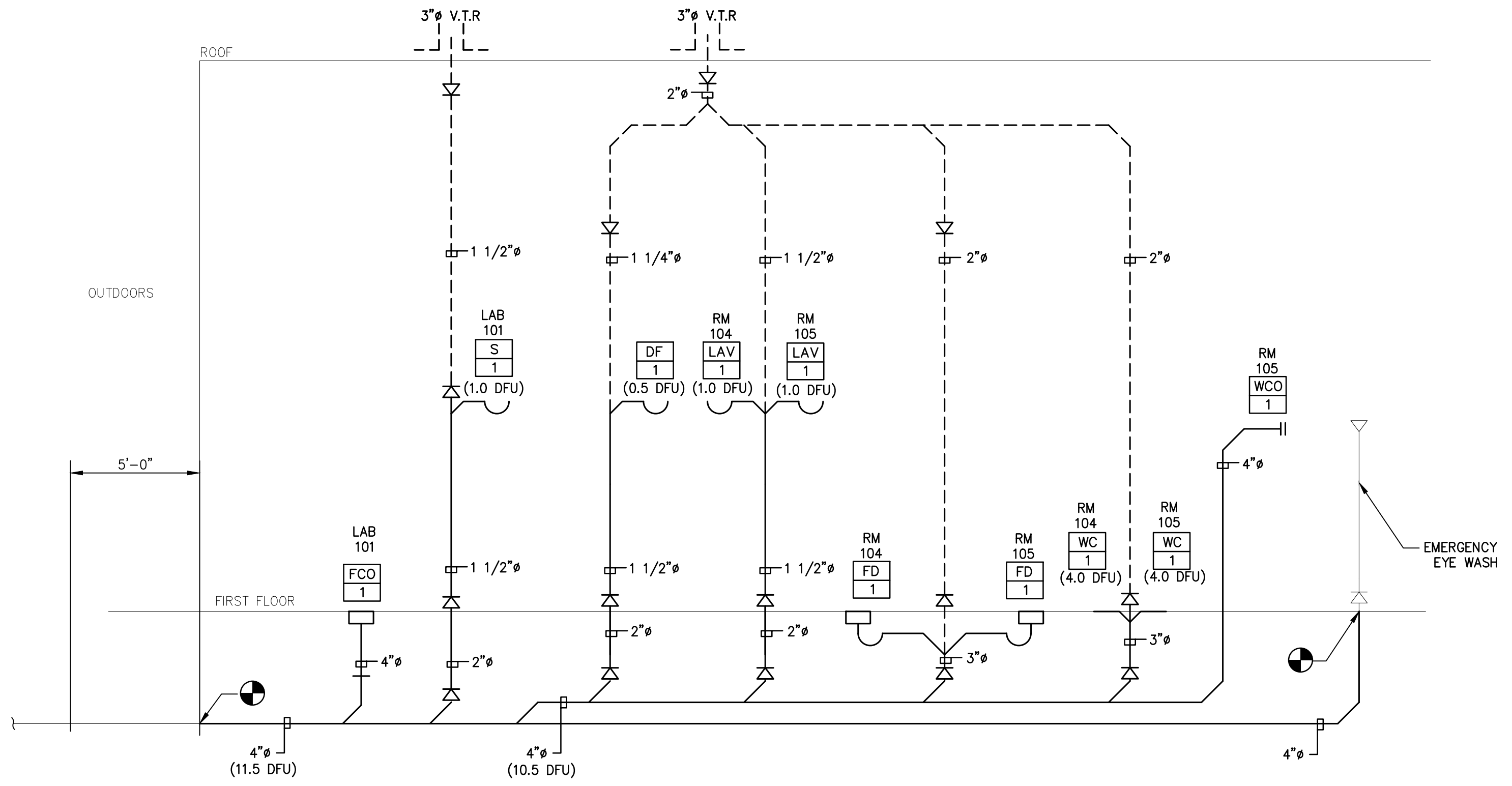
- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY, SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
- REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT CONNECTION SIZES.
- DOMESTIC WATER PIPING SHALL BE SOLDERED TYPE L COPPER TUBE. SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SANITARY PIPING RISER DIAGRAM NOTES:

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- REFER TO PLUMBING FIXTURE SCHEDULES AND FOOD SERVICE DRAWINGS FOR FIXTURE CONNECTION SIZES.
- NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN FOR CLARITY, SEE THE PLUMBING DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
- ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES THROUGH 6" IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
- PROVIDE ALL FLOOR DRAINS WITH DEEP SEAL TRAPS.
- SANITARY DRAINAGE AND VENT PIPING SHALL BE CAST IRON, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND MODIFY PIPING LAYOUT AS NECESSARY TO AVOID INTERFERENCES. PROVIDE PLUMBING WORK IN ACCORDANCE WITH THE NSPC.
- IF OFFSETS ARE REQUIRED IN VERTICAL PIPING TO AVOID INTERFERENCES, PROVIDE OFFSET USING 45° FITTINGS. 90° ELBOW FITTINGS SHALL NOT BE USED UNLESS PROVIDED IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE.



1 PLUMBING UTILITY PIPING RISER DIAGRAM
 Not to Scale



2 PLUMBING SANITARY PIPING RISER DIAGRAM
 Not to Scale

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CHRISTOPHER A. SAPONARO
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PLUMBING FIXTURE SCHEDULE

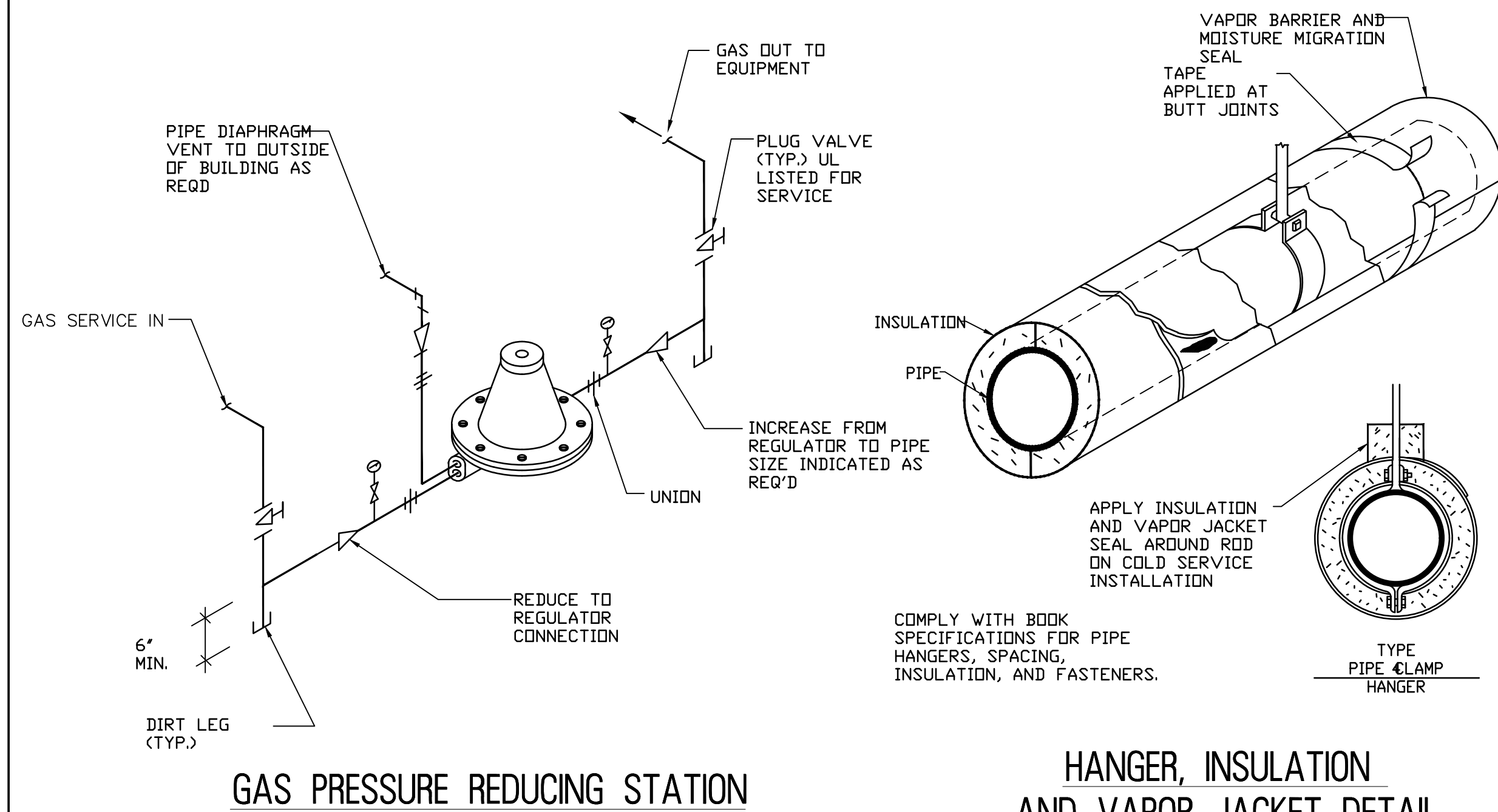
TAG	FIXTURE	DESCRIPTION	MANUF.	MODEL	MANUF.	ACCESSORY	MINIMUM CONNECTION SIZE (in.)				WATER SUPPLY FIXTURE UNITS (WSFU's)	DRAINAGE FIXTURE UNITS (DFU's)
							COLD	HOT	DRAIN	VENT		
DF-1	DRINKING FOUNTAIN	SINGLE ADA COOLER REFRIGERATED STAINLESS	ELKAY	L758WSSP	ELKAY	S1600C FILTRATION KIT, LKAPREZL APRON, NLP100 CARRIER	1/2	N/A	1 1/2	1 1/4	0.25	0.5
ET-1	EXPANSION TANK	DIAPHRAGM EXPANSION TANK	AMTROL	ST-5C-DD	AMTROL	HEAVY DUTY BUTYL NSF/ANSI 61	3/4	N/A	N/A	N/A	N/A	N/A
FCD-1	CLEANDUT	HEAVY DUTY ADJUSTABLE FLOOR CLEANDUT	ZURN	Z1400	ZURN	ZN VP	N/A	N/A	N/A	N/A	N/A	N/A
FD-1	FLOOR DRAIN	HEAVY DUTY SHALLOW SUMP FLOOR DRAIN	VADE	1200	VADE	NICKEL BRONZE TOP, VANDAL PROOF, HEEL PROOF GRATE, SEDIMENT BUCKET, SPECIAL DUTY, DEEP SEAL TRAP	N/A	N/A	3	2	N/A	0.0
HWC-1	WATER CLOSET	ELONGATED 1.6 GPF FLOOR MOUNTED ADA COMPLIANT PRESSURE ASSISTED TANK STYLE WATER CLOSET	ZURN	Z5560	ZURN	RH, Z5972-CMB, Z5958SS-EL, Z8800-CR	1	N/A	3	2	2.5	4.0
LAV-1	LAVATORY SINK	WALL HUNG VITREOUS CHINA LAVATORY	ZURN ONE SYSTEM	Z5314.464.3.01.41.5	ZURN	4" CENTERSET Z81104-XL-3M MANUAL FAUCET, ADA TRAP PROTECTOR, SUPPLY STOPS, P-TRAP, NOTE 3	1/2	1/2	1 1/2	1 1/2	1.0	1.0
MV-1	MIXING VALVE	THERMOSTATIC POINT OF USE MIXING VALVE	LEDNARD	MODEL 270-LF	N/A	NOTE 3	1/2	1/2	N/A	N/A	N/A	N/A
S-1	COUNTERTOP SINK	STAINLESS STEEL SINGLE BOWL SINK W/FAUCET AND DRAIN	ELKAY	LR2522	ELKAY	PROVIDE WITH LK1000CR FAUCET, OFFSET DRAIN, TRAP, SUPPLIES WITH STOPS.	1/2	1/2	1 1/2	1 1/2	1.5	2.0
WCD-1	WALL CLEAN OUT	WALL CLEAN OUT TEE AND COVER	ZURN	Z1441	ZURN	ZB-VP	N/A	N/A	N/A	N/A	N/A	N/A
VHA-1	WATER HAMMER ARRESTOR	INLINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-B	N/A	NOTE 4	3/4	N/A	N/A	N/A	N/A	N/A

- NOTES:
 1. COLOR/FINISH TO BE AS APPROVED BY THE ARCHITECT/DOWNER.
 2. PROVIDE ALL ACCESSORIES REQUIRED TO OPERATE AND INSTALL FIXTURES. INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. COORDINATE FIXTURE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 3. PROVIDE MIXING VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. LOCATE IN ACCESSIBLE LOCATION, PROVIDE ACCESS PANEL AS REQUIRED.
 4. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTORS AS RECOMMENDED BY THE MANUFACTURER. COORDINATE WITH GENERAL CONTRACTOR.

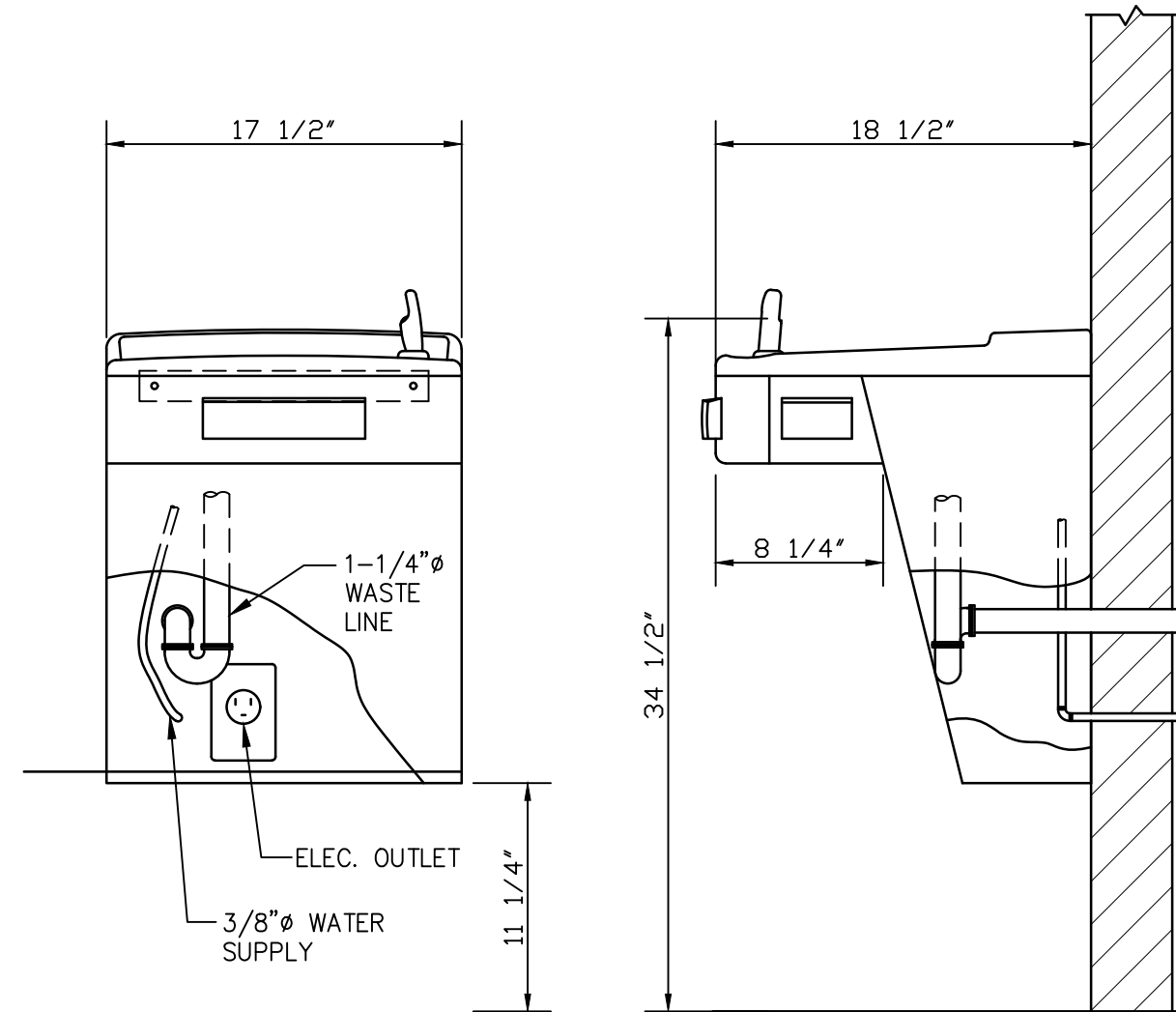
GAS HOT WATER HEATER SCHEDULE

TAG	MANUF.	MODEL	STORAGE CAPACITY (gallons)	GAS INPUT (BTU)	ENERGY FACTOR	FIRST HOUR RATING	RECOVERY @ 90 °F (gal/hr)	VENT SIZE (in)	COLD WATER INLET (in.)	HOT WATER OUTLET (in.)	NOTES
GHW-1	LOCHINVAR	GTN40 35	38	35,500	0.59	65	38	3	3/4	3/4	1

- NOTES:
 1. PROVIDE WITH LOW-WATER CUT-OFF, INTEGRATED CONTROL WITH LCD DISPLAY, TEMPERATURE/PRESSURE RELIEF VALVES, ALARM CONTACTS, MANUAL RESET HIGH LIMIT, POWER DIRECT VENT SYSTEM.

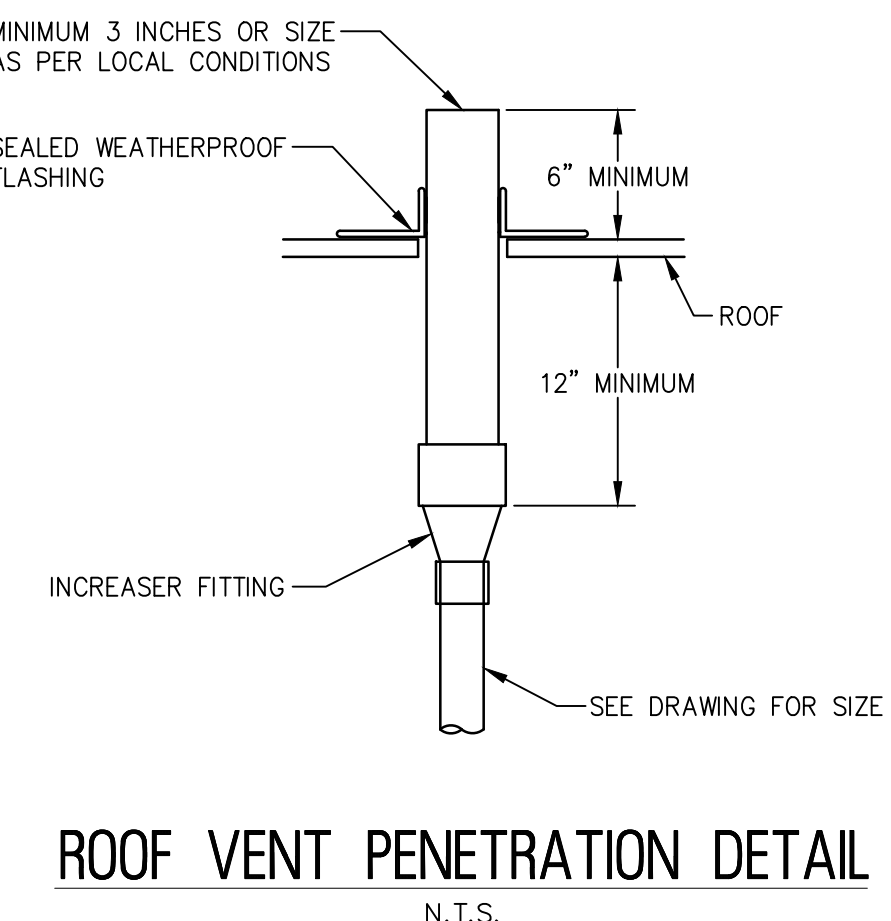
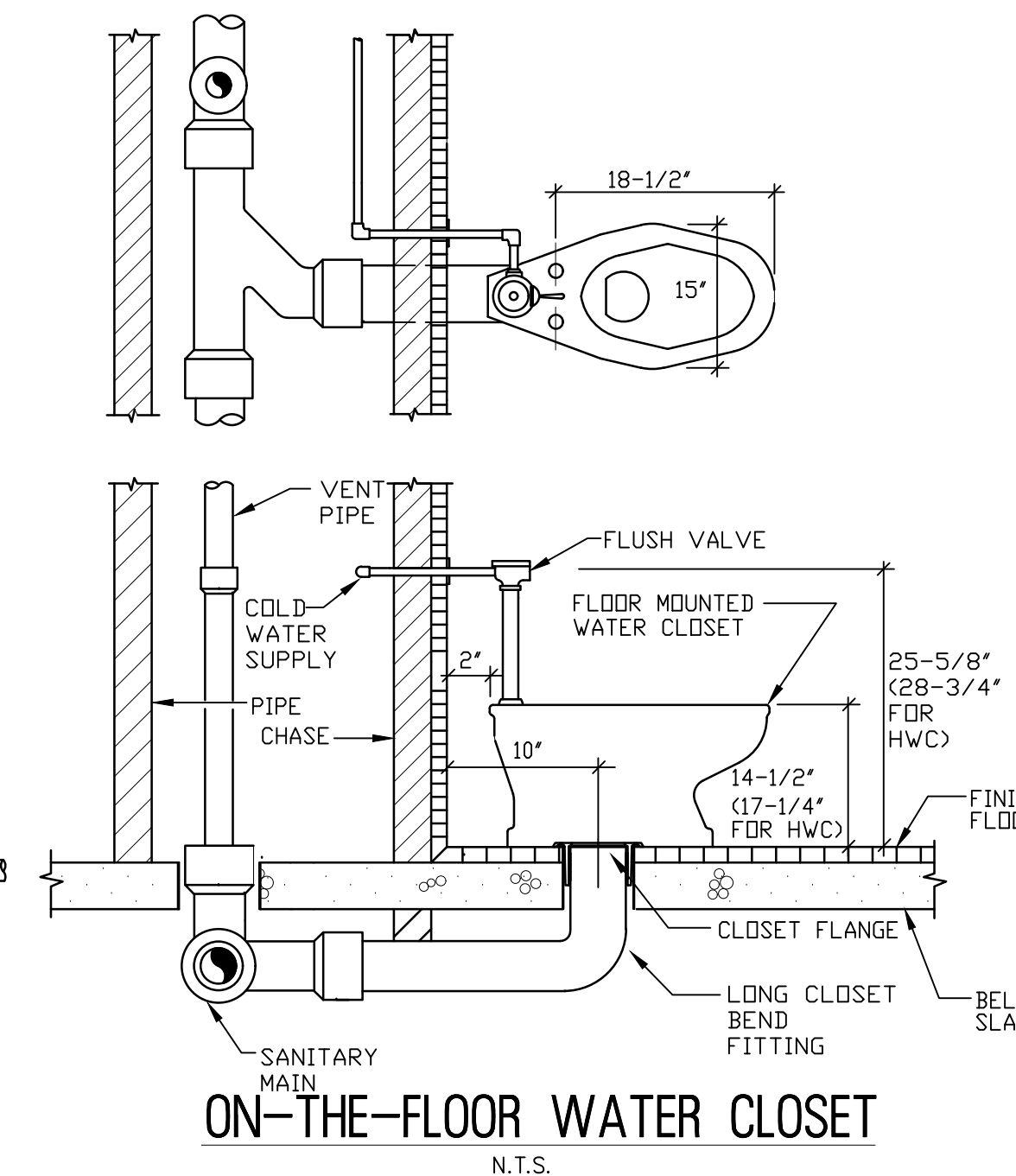


HANGER, INSULATION AND VAPOR JACKET DETAIL

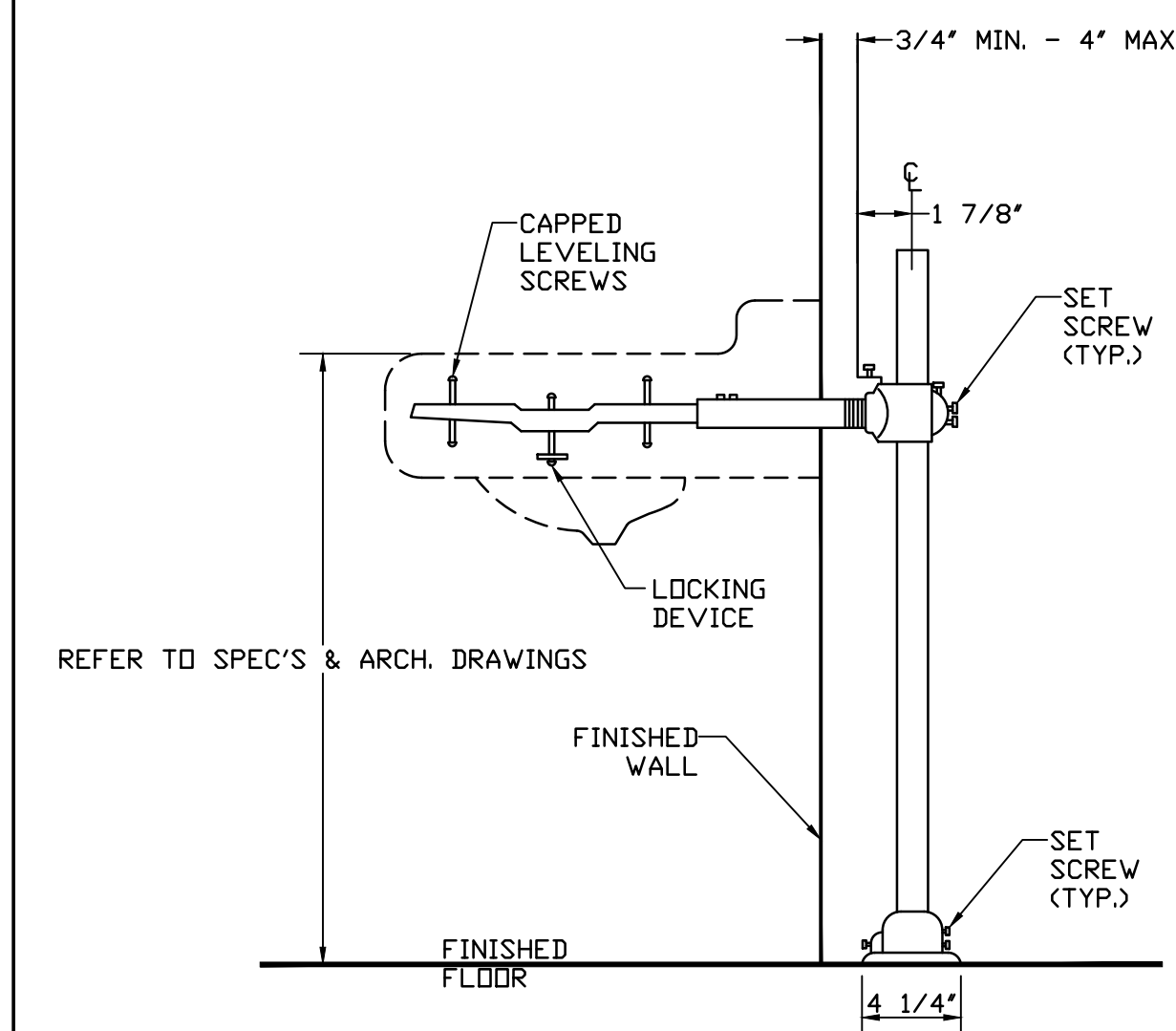


Barrier-Free Versacooler

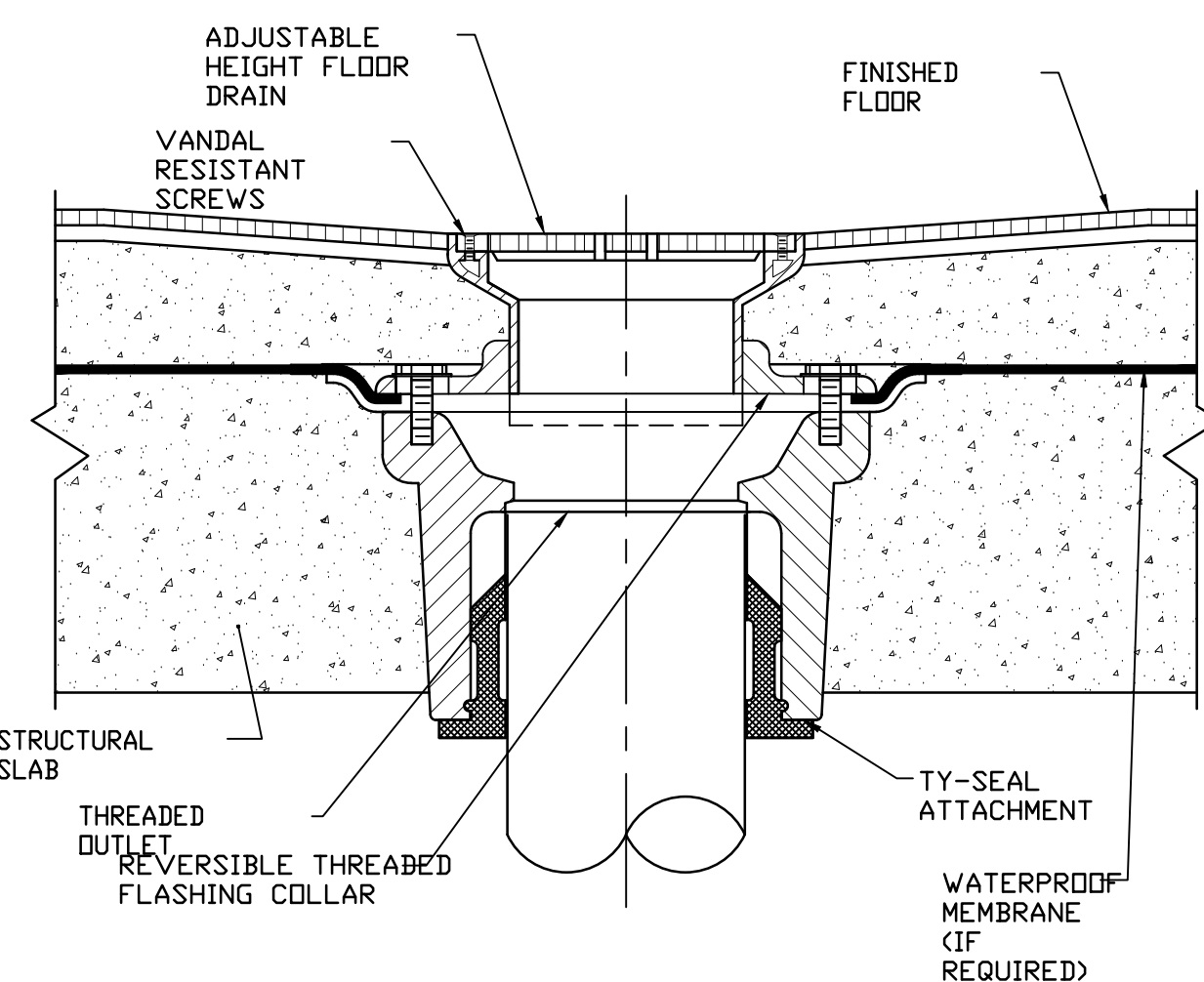
- NOTES:
 1. IF COOLER IS SET IN ALCOVE OR NEAR CORNER, ALLOW 1-1/2" PER SIDE FOR VENTILATION.
 2. SIMILAR FOR BARRIER-FREE SPLIT LEVEL COOLER. PROVIDE IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE CODES AND STANDARDS.



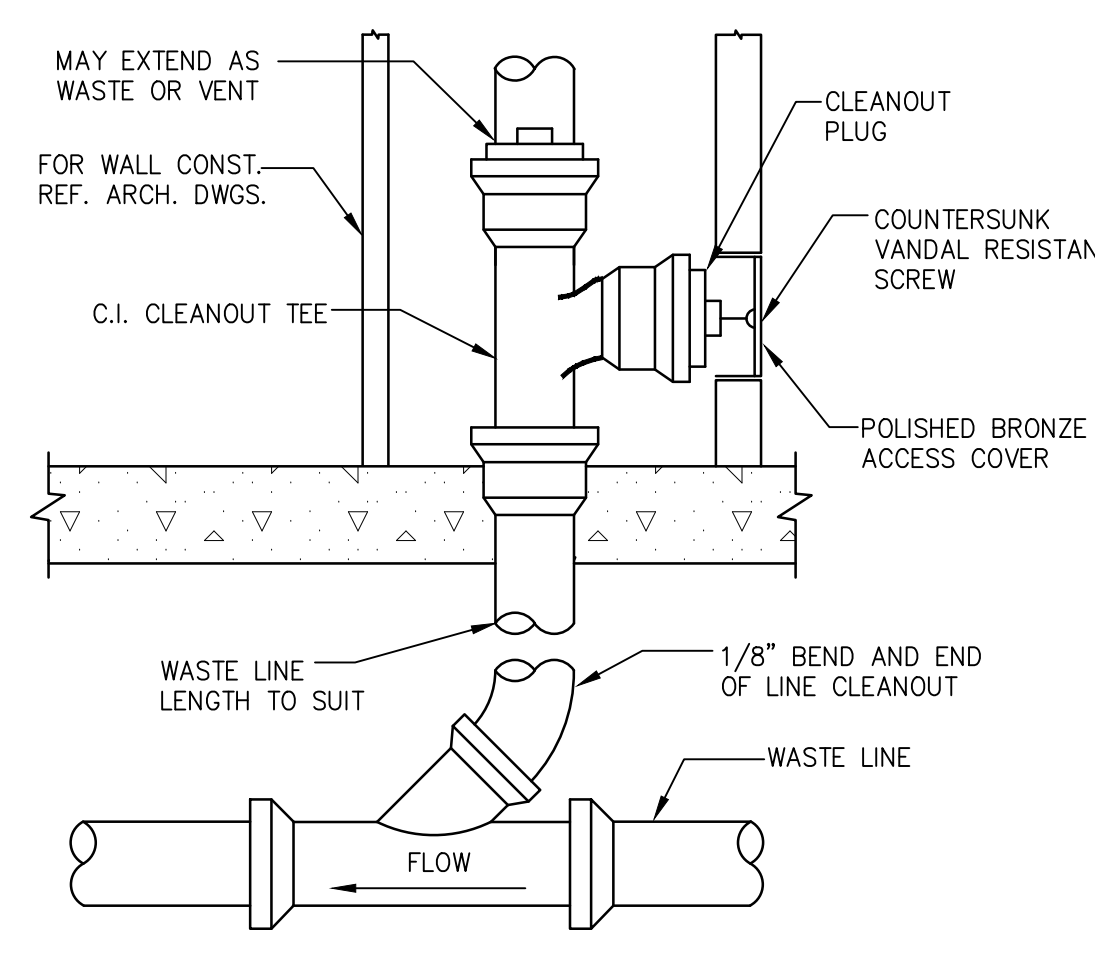
ROOF VENT PENETRATION DETAIL



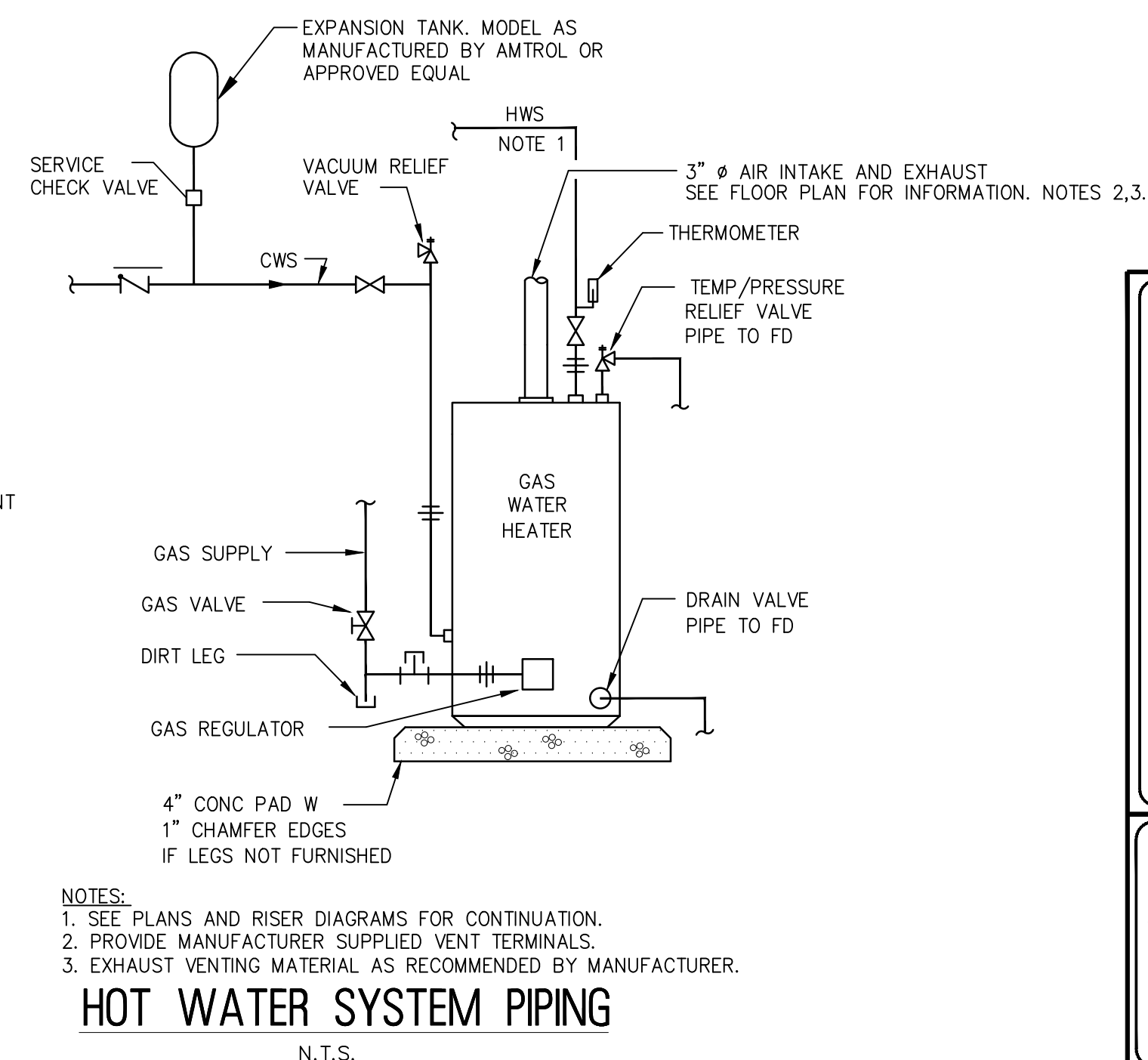
LAVATORY MOUNTING DETAIL



FLOOR DRAIN DETAIL



WALL CLEANOUT FOR FINISHED ROOMS

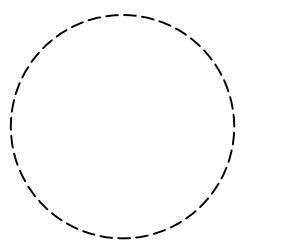


- NOTES:
 1. SEE PLANS AND RISER DIAGRAMS FOR CONTINUATION.
 2. PROVIDE MANUFACTURER SUPPLIED VENT TERMINALS.
 3. EXHAUST VENTING MATERIAL AS RECOMMENDED BY MANUFACTURER.

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SHEET CONTENTS:

PLUMBING DETAILS AND SCHEDULES

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING BURLINGTON COUNTY
 10 HARTFORD ROAD, DELRAN TWP. BURLINGTON CO. NJ

SUBMISSION:

XXX

DATE	REVISIONS	BY	CHKD

Date: 10.08.24
 Scale: AS SHOWN
 Drawn by: B.K.
 Checked by:
 Job No.: 2241869
 Drawing No.:

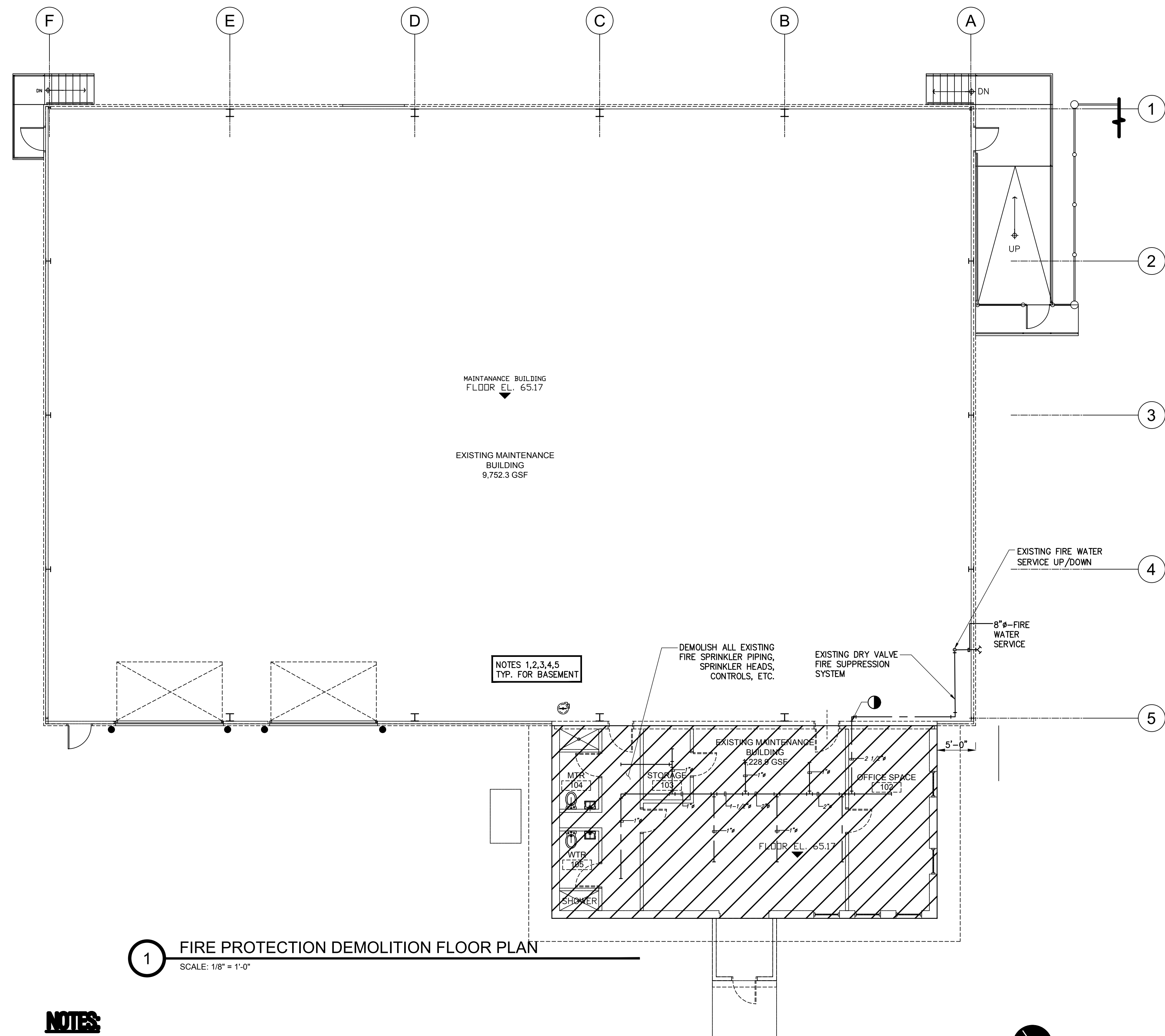
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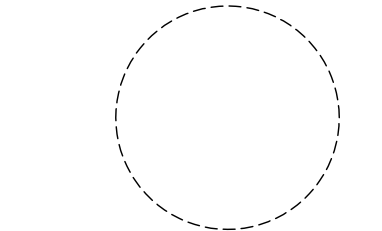


1 FIRE PROTECTION DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING & REPLACING

- ANY OR ALL FIXTURES AND/OR AREAS OF THE CEILING, FLOOR OR WALL DAMAGED AS A RESULT OF THE NEW/DEMOLITION WORK, REPAIRED & REPLACED FIXTURES AND PORTIONS OF THE CEILING, FLOOR, OR WALL SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
- CONTRACTOR SHALL TEMPORARILY REMOVE ALL EXISTING FIRE ALARM DEVICES. REINSTALL IN ORIGINAL LOCATION AFTER NEW CEILINGS HAVE BEEN INSTALLED THE FIRE ALARM SYSTEM SHALL BE KEPT IN SERVICE DURING CONSTRUCTION. PROVIDE A FIRE WATCH FOR AREAS WHERE DETECTION IS TEMPORARILY REMOVED.
- COORDINATE THE DEMOLITION OF THE EXISTING FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.



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FIRE PROTECTION DEMOLITION FLOOR PLAN

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BURLINGTON COUNTY
10 HARTFORD ROAD, DELRAN TWP.
BURLINGTON CO. NJ

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XXX

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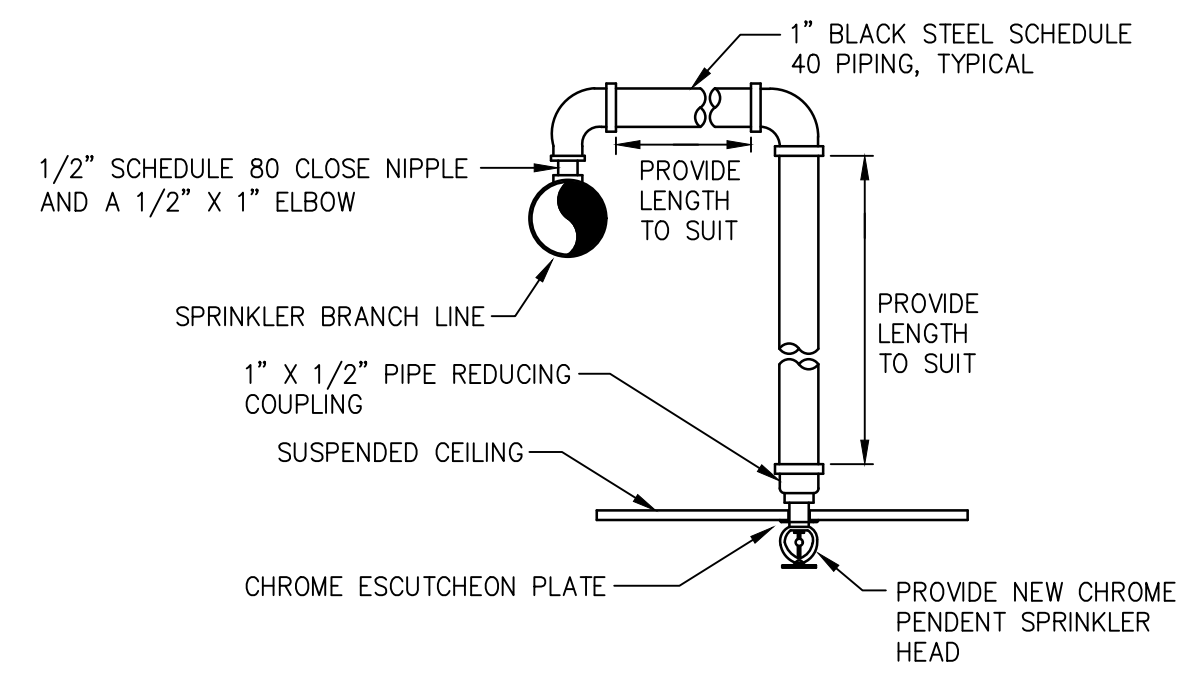
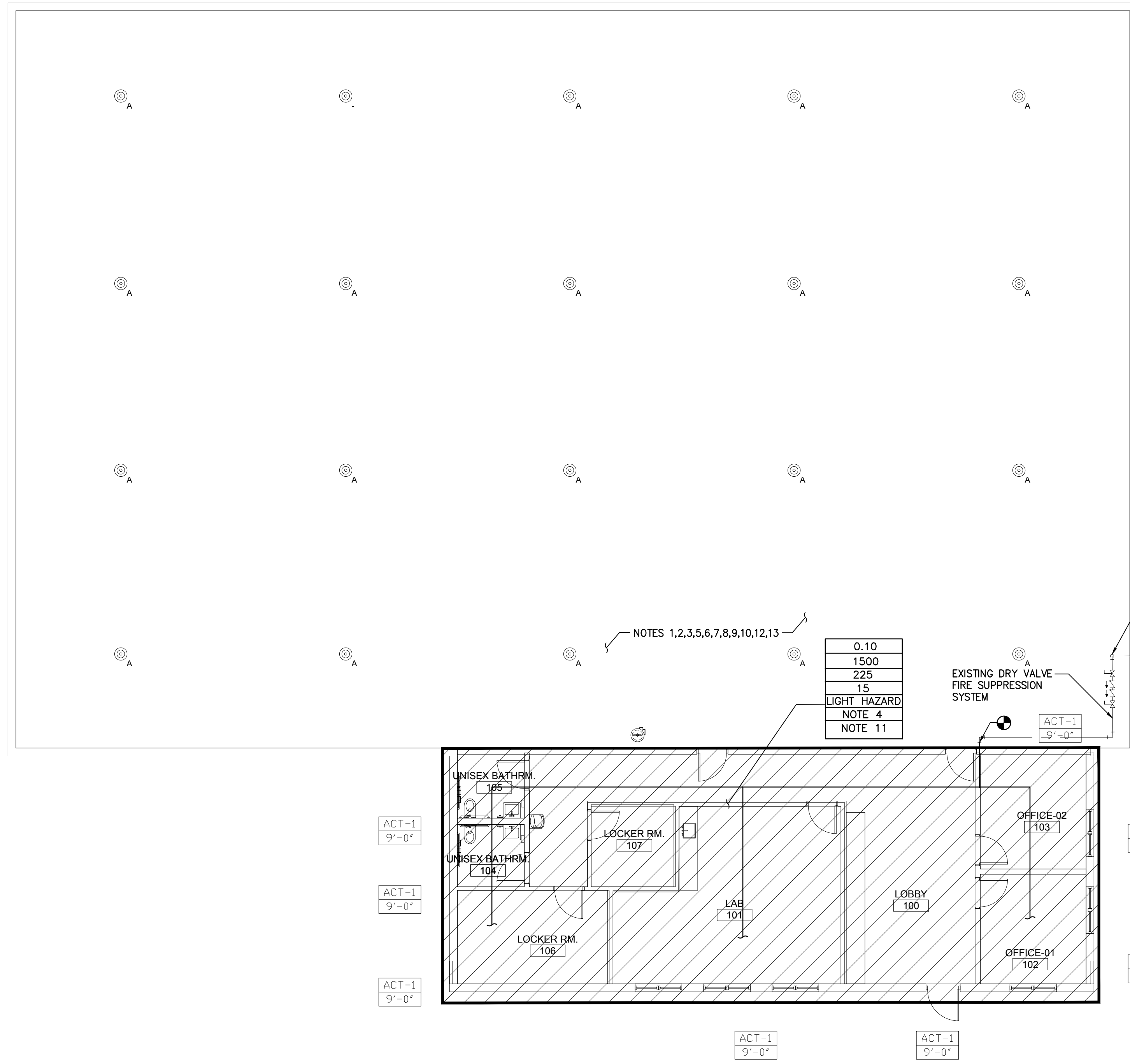
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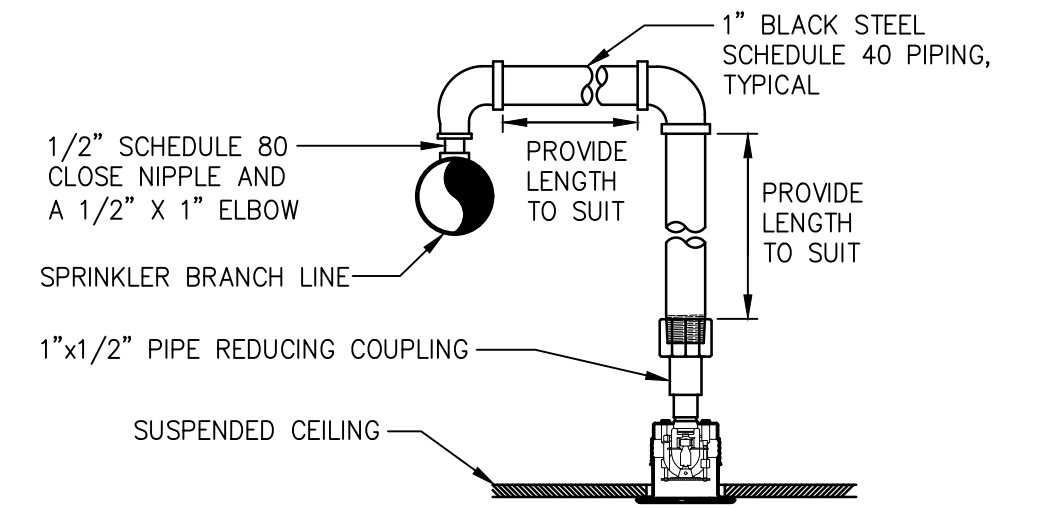
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DATE: 10-08-24

P:\Projects\Burlington County\Burlington County\Burlington County\FP-1 FIRE PROTECTION DEMOLITION FLOOR PLAN.dwg 10/08/24 4:02:48 PM



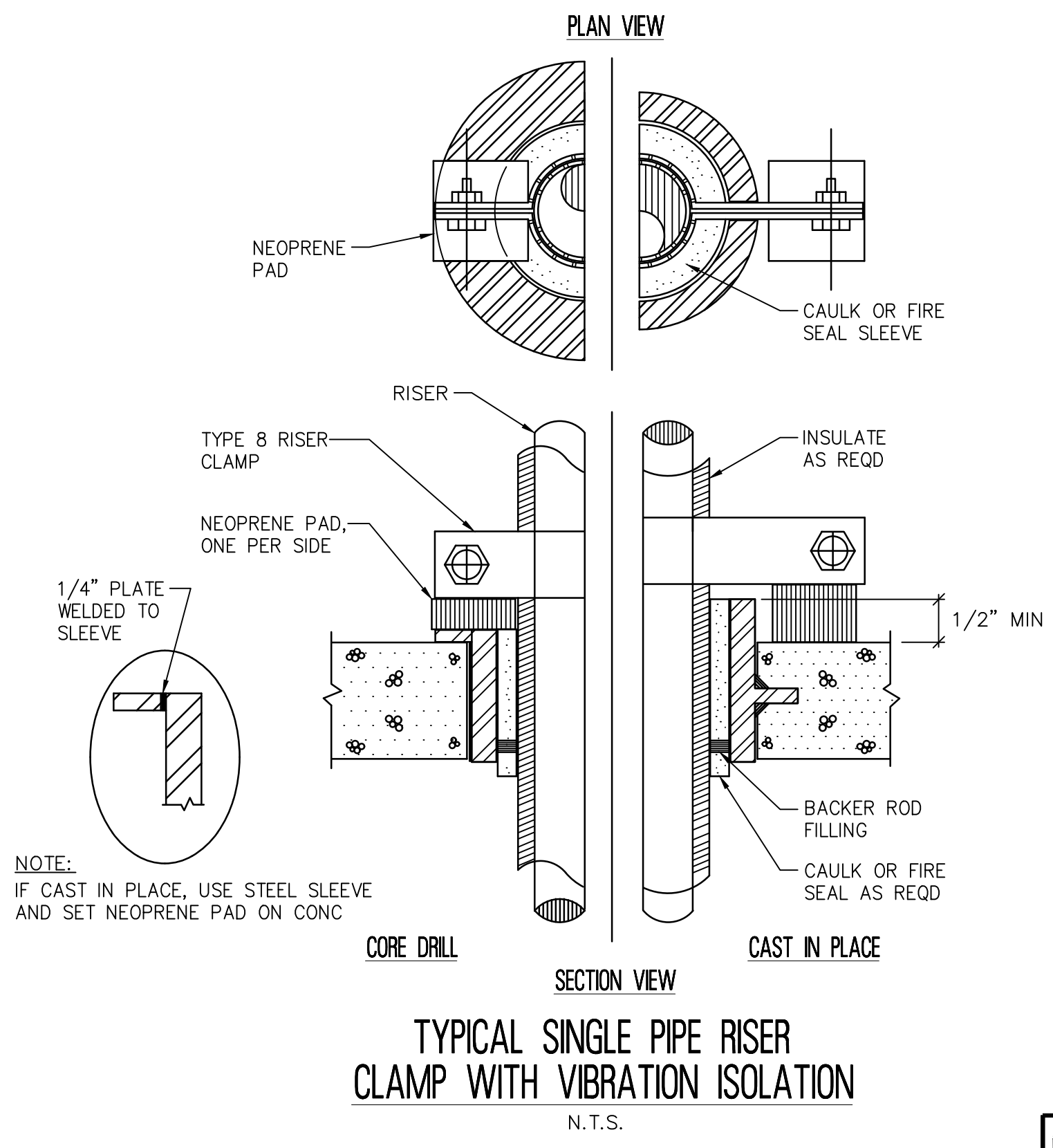
NOTES:
 1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
 2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

TYPICAL NEW SPRINKLER HEAD DROP
N.T.S.



NOTES:
 1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
 2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

NEW SPRINKLER HEAD DROP WITH RECESSED SPRINKLER HEAD
N.T.S.



TYPICAL SINGLE PIPE RISER CLAMP WITH VIBRATION ISOLATION
N.T.S.

1 FIRE PROTECTION FLOOR PLAN
SCALE: 1/8"=1'-0"

LEGEND

XXX	SPRINKLER DENSITY-(GPM/FT)
XXX	AREA OF SPRINKLER OPERATION (FT ²)
XXX	MAX COVERAGE AREA PER SPRINKLER (FT ²)
XXX	MAX SPACING (FT)
XXX	NFPA CLASSIFICATION
XXX	SPRINKLER TYPE
XXX	NOTES

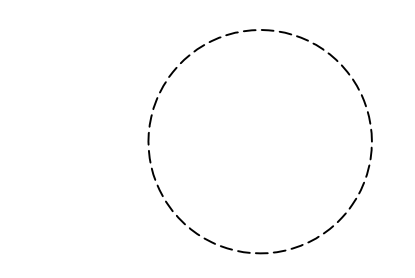
LIGHT HAZARD

NOTES:

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- ALL PIPE SIZES SHOWN ON THE DRAWING ARE EXISTING PIPE SIZES. FIRE PROTECTION CONTRACTOR SHALL SIZE PIPING BASED ON HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA AND SPECIFICATIONS. PRIOR TO PERFORMING HYDRAULIC CALCULATIONS, THE CONTRACTOR SHALL PERFORM A FLOW TEST IN ACCORDANCE WITH NFPA TO DETERMINE STATIC AND RESIDUAL PRESSURES AND CAPACITIES. COORDINATE FLOW TEST WITH LOCAL AUTHORITIES.
- FIRE PROTECTION CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLER HEADS WITH OTHER TRADES TO AVOID INTERFERENCES WITH DUCTWORK PIPING, CONDUIT, STRUCTURE, ETC.
- PROVIDE CONCEALED TYPE SPRINKLER HEADS IN ALL ROOMS WITH SUSPENDED CEILINGS. PROVIDE UPRIGHT OR PENDENT TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS. PROVIDE INTERMEDIATE TEMPERATURE HEADS IN THE ALL AREAS THAT ARE HEATED ONLY. PROVIDE ORDINARY TEMP SPRINKLERS IN STORAGE ROOMS. FOR AREAS WITH SECURITY CEILINGS, PROVIDE SECURE, TAMPER PROOF INSTITUTIONAL SPRINKLER.
- FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL QUANTITIES AND LOCATIONS IN THE FIELD AS REQUIRED TO AVOID INTERFERENCES WITH DIFFUSERS, DUCTWORK, BUILDING STRUCTURE CONDUIT, ETC. AND THAT THESE FINAL QUANTITIES AND LOCATIONS ARE IN ACCORDANCE WITH NFPA.
- CONTRACTOR SHALL BE REQUIRED TO DEMOLISH ALL EXISTING FIRE PROTECTION SPRINKLERS IN THE AREA WHERE NEW COVERAGE IS TO BE PROVIDED AS SHOWN ON THIS PLAN.
- CONTRACTOR SHALL MAKE ALL REVISIONS TO EXISTING PIPING AND SPRINKLERS AS NECESSARY TO PROVIDE PROPOSED COVERAGE AS SHOWN ON THESE PLANS AND TO RETAIN EXISTING COVERAGE TO ALL OTHER AREAS OF THE BUILDING.

- CONTRACTOR TO INVESTIGATE AND FIELD VERIFY THE EXISTING FIRE PROTECTION SPRINKLER PIPE SIZE AND LAYOUT AS NECESSARY TO PERFORM HYDRAULIC CALCULATIONS AND PROVIDE COVERAGE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO FULLY UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE IN HIS BID ALL MATERIALS AND LABOR NECESSARY TO PERFORM THE SCOPE OF WORK AS SHOWN ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL REUSE EXISTING SPRINKLER PIPING, REMOVE EXISTING HEADS, AND REPLACE SPRINKLER HEADS AND DROPS TO ACCOMMODATE NEW CEILING. COORDINATE WITH ARCHITECTURAL CEILING PLAN.
- CONTRACTOR TO DEMOLISH EXISTING BRANCH PIPING AND SPRINKLER DROPS, AND PROVIDE NEW DISTRIBUTION BRANCH PIPING AND SPRINKLER DROPS TO PROVIDE COVERAGE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 FOR THE RECONFIGURED SPACE. SEE ALSO NOTES 6 AND 7.
- CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS, INCLUDING REVISIONS TO SPRINKLER PIPING, IN ALL AREAS, EVEN IF NOT NOTED ON THIS PLAN, AS NECESSARY PROVIDE THE COVERAGE SPECIFIED.
- CONTRACTOR REQUIRED TO PROVIDE ALL FLOW TESTS, ETC. NECESSARY TO PERFORM THE REQUIRED CALCULATIONS AND SYSTEM INSTALLATION AND TESTING. SEE SPECIFICATION SECTION 211313.
- CONTRACTOR TO REMOVE AND REPLACE ALL CEILING TILES, LIGHTING, ETC. NECESSARY TO INSTALL SPRINKLER PIPING.

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