

ABBREVIATIONS

ADA	AMERICAN WITH DISABILITIES ACT	MAT	MATERIAL
ADD'L	ADDITIONAL	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFG	MANUFACTURING
AL	ALUMINUM	MIN	MINIMUM
BD	BOARD	MIR	MIRROR
BLDG	BUILDING	MNF	MANUFACTURER
BLK	BLOCKING	MR	MOISTURE RESISTANT
BLK'G	BLOCKING	MTL	METAL
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CLG	CEILING	NO.	NUMBER
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIA./DIMENSION
CONTIN	CONTINUOUS	OPP	OPPOSITE
DIA	DIAMETER	OPP.HD.	OPPOSITE HAND
DIAM	DIAMETER	PCF	POUNDS PER CUBIC FOOT
DF	DRINKING FOUNTAIN	PLYWD	PLYWOOD
DS	DOWN SPOUT	PR	PAIR
DTLS	DETAILS	PTAC	PACKAGED THERMAL A/C
DWGS	DRAWINGS	REINF	REINFORCED
EA	EACH	REQ'D	REQUIRED
EJ	EXPANSION JOINT	SAT	SUSP. ACOUSTICAL TILE
EL	ELEVATION	SBC	STANDARD BUILDING CODE
ELEC	ELECTRICAL	SC	SOLID CORE
ELEV	ELEVATION	SCH	SCHEDULE
EQ	EQUAL	SCHED	SCHEDULE
EWC	ELECTRIC WATER COOLER	SD	SOAP DISPENSER
EXP	EXPANSION	SH	SHEET
FD	FLOOR DRAIN	SHT	SHEET
FE	FIRE EXTINGUISHER	SIM	SIMILAR
FEC	FIRE EXTINGUISHER CABINET	STL	STEEL
FF	FINISH FLOOR	STRUCT	STRUCTURAL
FLR	FLOOR	SYS	SYSTEM
FOS	FACE OF STUD	TB	TACK BOARD
FR	FIRE RATED	TP	TOP OF STEEL
FRP	FIBERGLASS REINFORCED PANEL	TP	TOILET PAPER DISPENSER
GB	GYPSUM BOARD	TRTD	TREATED
GYP	GYPSUM	TS	TACK STRIP
HC	HANDICAPPED	TYP	TYPICAL
HD	ELECTRIC HAND DRYER	TV	TELEVISION
HGT	HEIGHT	U.L.	UNDERWRITER LABORATORY
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL	V.I.F.	VERIFY IN FIELD
HND	HAND	VCT	VINYL COMPOSITION TILE
HT	HEIGHT	VERT	VERTICAL
HTS	HEIGHTS	VT	VINYL TILE
HVAC	MECHANICAL	W/	WITH
ID	INSIDE DIAMETER/DIMENSION	WC	WATER CLOSET
LAV	LAVATORY	WD	WOOD

NOTE: THESE ARE THE MOST COMMONLY USED ARCHITECTURAL ABBREVIATIONS IN THESE PLANS. REFER TO STRUCTURAL, MECHANICAL & ELECTRICAL PLANS FOR ADDITIONAL ABBREVIATIONS.

INDEX TO DRAWINGS

GENERAL			
G-001	TITLE SHEET, INDEX, VICINITY MAP		
G-002	GENERAL NOTES & SPECIFICATIONS		
ARCHITECTURAL			CIVIL
A-001	LIFE SAFETY PLAN	C1.1	GEOMETRIC SITE PLAN
A-102	FLOORPLAN & NOTES	C1.2	SWPPP & EROSION CONTROL
A-103	WINDOW/DOOR SCHEDULES & DETAILS	C1.3	PAVING AND SITE DETAILS
A-104	RESTROOM PLAN & DETAILS	C1.4	SITE NOTES
A-105	REFLECTIVE CEILING PLAN & DETAILS	C3.1	DRAINAGE PLAN
A-106	FINISH SCHEDULE		
A-201	FRONT & REAR ELEVATIONS		
A-301	BUILDING SECTIONS		
A-302	BUILDING SECTIONS		
A-401	NOTES AND DETAILS		
MECHANICAL		S-101	STRUCTURAL FOUNDATION PLAN
M-101	MECHANICAL PLAN		
M-102	MECHANICAL DETAILS		
M-103	MECHANICAL DETAILS		
M-104	MECHANICAL NOTES		
ELECTRICAL			
E-101	LIGHTING PLAN		
E-102	POWER PLAN		
E-103	ELECTRICAL DETAILS		
E-104	ELECTRICAL NOTES		
PLUMBING			
P-101	PLUMBING PLAN		
P-102	RISER DIAGRAMS		
P-103	PLUMBING DETAILS		
P-103	PLUMBING DETAILS		

GENERAL PROJECT NOTES

GENERAL SCOPE OF WORK

- INSTALLATION OF NEW FREE-STANDING PRE ENGINEERED METAL BUILDING WITH ASSOCIATED SITE WORK
- REFERENCE CIVIL PLANS FOR ALL SITE SPECIFIC SPECIFICATIONS AND DETAILS
- REFERENCE STRUCTURAL PLANS FOR ALL FOUNDATION AND FRAMING SPECIFICATIONS AND DETAILS
- REFERENCE MECHANICAL PLANS FOR ALL AIR CONDITIONING/HEATING SPECIFICATIONS AND DETAILS
- REFERENCE ELECTRICAL DRAWINGS FOR ALL POWER AND LIGHTING SPECIFICATIONS AND DETAILS. ALL LOW VOLTAGE, DATA AND ALARM CABLES NEED TO BE INSTALLED BEFORE DRYWALL INSTALLATION
- REFERENCE PLUMBING PLANS FOR ALL PLUMBING SPECIFICATIONS AND DETAILS
- LANDSCAPING AND SITE WORK TO BE PERFORMED AS PER PLANS AND SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES

- THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED WITHOUT CONSENT. DRAWINGS SHALL NOT BE USED FOR ISSUE OF BUILDING PERMIT UNLESS SIGNED AND SEALED BY ENGINEER.
- THE ENGINEER SHALL BE THE INTERPRETER OF THE CONTRACT. CONSTRUCTION DOCUMENTS SHOW AN OVERVIEW OF THE WORK REQUIRED UNDER THIS CONTRACT AND RELATED REQUIREMENTS AS WELL AS CONDITIONS THAT WILL IMPACT THE PROJECT. ALL DRAWINGS ARE COMPLEMENTARY AND ARE INTENDED TO SHOW THE BASIC CONCEPTS AND COMPLEXITY OF THE PROJECT. THEY DO NOT NECESSARILY SHOW ALL DETAILS AND CONDITIONS.
- THE OWNER AND CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY, CLAIMS, DAMAGES, LOSSES, AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF, OR RESULTING FROM, ERRORS OR OMISSIONS IN THE ENGINEER'S DRAWINGS AND THE PERFORMANCE OF THE WORK BY THE CONTRACTOR. ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF ALL LOCAL AND STATE BUILDING CODES AND ORDINANCES. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENTS AND EXTENT OF WORK TO BE PERFORMED. AS THE WORK PROGRESSES, THE OWNER AND THE CONTRACTOR (AT NO EXTRA COSTS) SHALL MAKE ANY REQUIRED MODIFICATIONS TO ENSURE THE PARTS ALIGN.
- THESE PLANS HAVE BEEN PREPARED AS PER THE 2015 INTERNATIONAL BUILDING CODE (IBC). THE WORK OF ALL CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE AFOREMENTIONED CODE. NO DEVIATIONS FROM THE WORK SHOWN OR REASONABLY IMPLIED SHALL BE UNDERTAKEN WITHOUT THE ENGINEER'S WRITTEN CONSENT.
- ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF LOCAL AND STATE CODES AND THE SPEC'S OF THE NATIONAL FIRE PROTECTION AGENCY (NFPA). GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL PLAN DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION. HE SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. THE DISCOVERY OF DISCREPANCIES AFTER THE BEGINNING OF WORK WILL BE EVIDENCE OF FAULTY WORK AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DO NOT SCALE DRAWINGS. ALL WRITTEN DIMENSIONS GOVERN.
- ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL MANUFACTURER'S SPECIFICATIONS, GUIDELINES AND RECOMMENDATIONS. THE SOIL BENEATH CONCRETE SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE TREATED WITH PESTICIDE BY A LICENSED CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS, RULES, DEFINITIONS AND REQUIREMENTS.
- ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS ARE CONSIDERED INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THE ENGINEER SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERE TO.
- DOOR HARDWARE AT ACCESSIBLE DOORS (INCLUDING EXIT ACCESS DOORS) SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS PER THE 2015 INTERNATIONAL BUILDING CODE (I.B.C.). PANIC HARDWARE MUST BE PROVIDED ON EXIT DOORS.

CONTRACTOR NOTES

- PRIOR TO START OF WORK, GENERAL CONTRACTOR (G.C.), SHALL REVIEW THESE CONSTRUCTION DOCUMENTS AND PRINTED SCOPE OF WORK TO BE PERFORMED UNDER THE CONSTRUCTION CONTRACT WITH A DULY AUTHORIZED REPRESENTATIVE OF THE OWNER. THE ENGINEER DOES NOT REPRESENT THESE DOCUMENTS AS APPROVED BY THE OWNER. SCOPE OF WORK TO BE VERIFIED BY OWNERS REPRESENTATIVE.
- THE GENERAL CONTRACTOR SHALL MEET WITH ALL SUBCONTRACTORS (EITHER ONE BY ONE OR ALL TOGETHER) ON-SITE PRIOR TO CONSTRUCTION TO VERIFY ANY/ALL EXISTING CONDITIONS PERTAINING TO THIS PROJECT. MINUTES FROM THIS MEETING AND FINDINGS IN THE FIELD SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION
- IF THESE DRAWINGS AND THE FIELD CONDITIONS ARE NOT IN AGREEMENT, THE CONTRACTOR SHALL NOTIFY THE G.C. AND/OR THE ENGINEER BEFORE STARTING ANY WORK. ANY INCONSISTENCIES NEED TO BE CORRECTED BEFORE INSTALLATION BEGINS. IF THE CONTRACTOR STARTS INSTALLATION WITHOUT THE CORRECTED DRAWINGS, HE/SHE WILL BE RESPONSIBLE FOR ANY AND ALL COSTS (BEYOND THE ORIGINAL CONTRACTED AMOUNT) INCURRED BY NECESSARY CHANGES TO CORRECT THE INCONSISTENCIES.
- GENERAL CONTRACTOR REMAINS SOLELY LIABLE AND RESPONSIBLE FOR THE FOLLOWING:
 - VERIFICATION AND MAINTENANCE OF ALL EXISTING SETBACKS, EASEMENTS, AND ANY DEED RESTRICTIONS.
 - IDENTIFICATION AND REMOVAL OF ANY AND ALL HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO ASBESTOS-LADEN MATERIALS (NOTIF REMOVAL, IN WRITING, IF ANY HAZARDOUS MATERIALS ARE DISCOVERED)
 - VERIFICATION OF LOCATION OF ALL UTILITIES ENTERING INTO SITE FOR THIS PROJECT
 - COORDINATION OF WORKING HOURS, DELIVERIES, TRASH REMOVAL, STORAGE, ETC WITH OWNER
 - THE ADEQUACY AND INTEGRITY OF ANY AND ALL STAGING, SCAFFOLDING, SHORING, AND FORM WORK, ALSO ANY AND ALL JOB SITE SAFETY PROGRAMS.
 - ACCESS PANELS WHERE REQUIRED AS PER PLANS, SPECIFICATIONS, OR INSTRUCTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DETAILS AND DIMENSIONS. ANY DISCREPANCIES BETWEEN SUCH DETAILS AND DIMENSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION.
- THE CONTRACTOR FOR THIS PROJECT SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE TOTAL PROJECT. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, MACHINERY, TRANSPORTATION, HEAT, WATER, UTILITIES, AND ALL OTHER FACILITIES AND SERVICES REQUIRED FOR THE SAFE AND PROPER EXECUTION AND COMPLETION OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OFF SITE AND CONSTRUCTION DEBRIS IN A TIMELY AND ORDERLY FASHION THROUGHOUT CONSTRUCTION PROCESS AS WELL AS FINAL CLEAN-UP INCLUDING THE REMOVAL OF ALL DEBRIS LEAVING JOB IN A NEW, BROOM CLEAN CONDITION INCLUDING SERVICE AREAS.
- CLAIMS FOR CONSEQUENTIAL DAMAGES, THE ENGINEER AND THE OWNER MAY CHOOSE TO WAIVE CONSEQUENTIAL DAMAGES FOR CLAIMS, DISPUTES OR OTHER MATTERS IN QUESTION ARISING OUT OF OR RELATING TO THIS PROJECT. THIS MUTUAL WAIVER IS APPLICABLE, WITHOUT LIMITATION, TO ALL CONSEQUENTIAL DAMAGES.
- ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL MANUFACTURER'S SPECIFICATIONS, GUIDELINES, AND RECOMMENDATIONS; AS WELL AS ALL PERTINENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES INCLUDING BUT NOT LIMITED TO:
 - NFPA 101 LIFE SAFETY CODE (CURRENT EDITION)
 - INTERNATIONAL ACCESSIBILITY CODE (CURRENT EDITION)
 - INTERNATIONAL BUILDING CODE (CURRENT EDITION)

OWNERSHIP OF SERVICE

- ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FILED DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE ENGINEER AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE ENGINEER. THE ENGINEER SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERE-TO.
- REPRODUCTION OF THESE DOCUMENTS OR DATA CONTAINED HEREIN IS STRICTLY PROHIBITED UNLESS AUTHORIZED IN WRITING.

CODE DATA

APPLICABLE CODES

- ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES SHALL BE AT THE EXPENSE OF THE SUBCONTRACTOR, SUBJECT TO THE RECEIPT OF AN AFFIDAVIT OR LETTER FROM THE GOVERNING BODY AND OWNER PRIOR TO APPROVAL OF ANY ADDITIONAL COST TO BE INCURRED. ALL PERMITS & LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - 2015 INTERNATIONAL BUILDING CODE
 - 2015 INTERNATIONAL MECHANICAL CODE
 - 2015 NATIONAL ELECTRICAL CODE
 - 2015 INTERNATIONAL PLUMBING CODE
 - 2015 INTERNATIONAL GAS CODE
 - 2015 INTERNATIONAL ENERGY CODE
 - 2015 NFPA 101 LIFE SAFETY CODE
 - 2015 INTERNATIONAL ACCESSIBILITY CODE
 - 2015 INTERNATIONAL EXISTING BUILDING CODE
 - 2015 INTERNATIONAL FIRE PREVENTION CODE
 - AS WELL AS ANY AND ALL LOCAL/MUNICIPAL ORDINANCES.

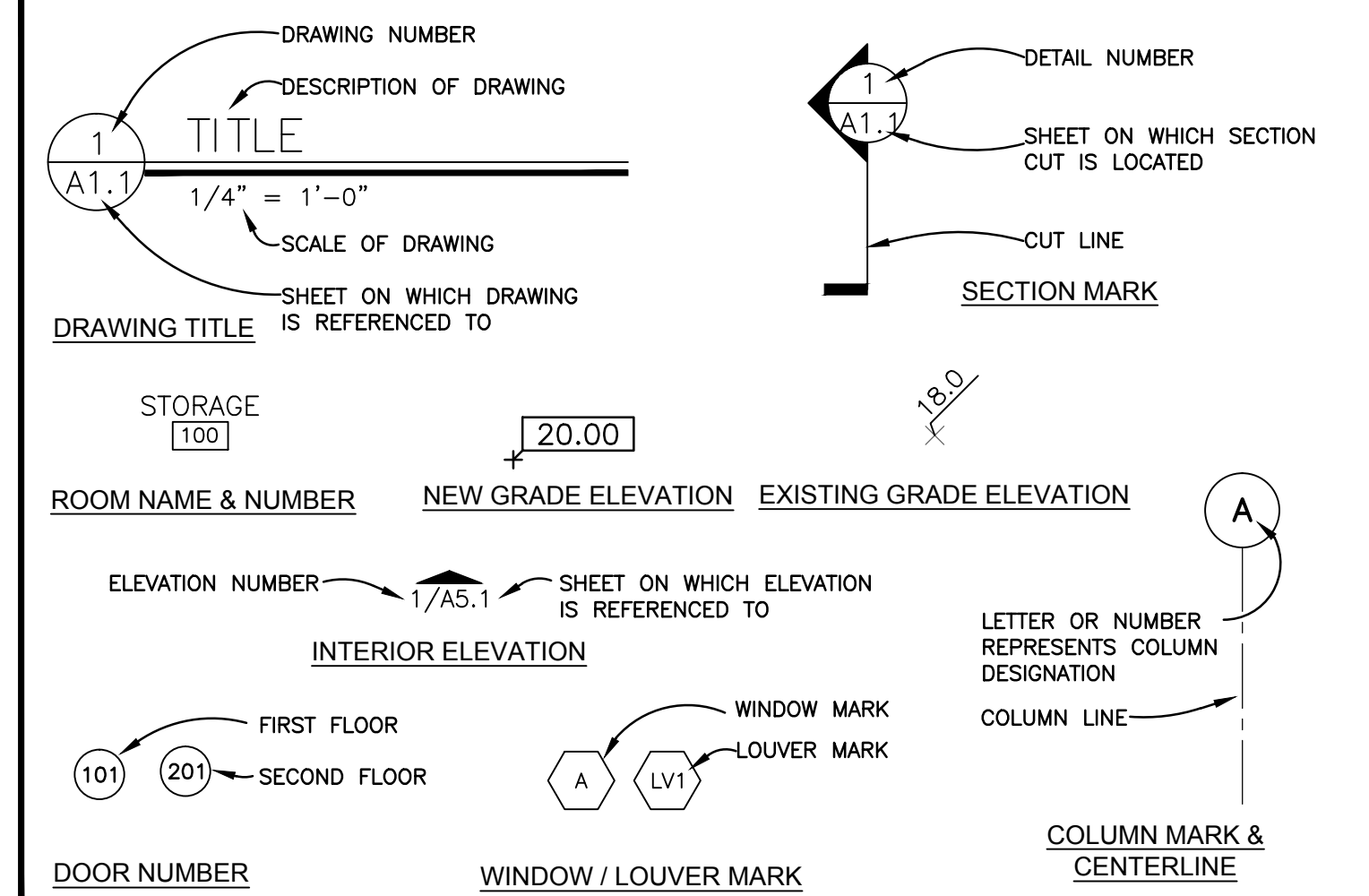
ALL BUILDING, PLUMBING, MECHANICAL AND ELECTRICAL MUST BE DESIGNED ACCORDING TO THE CODES ADOPTED BY THE CITY.

DESIGN DATA

DESIGN CODE / WIND CODE	IBC-15
DESIGN LOADS	
FLOOR LIVE LOAD [IBC 1607.1]	125.00
LOADS ABOVE FIRST FLOOR [IBC 1607.1]	N/A
CORRIDOR LIVE LOADS [IBC 1607.1]	100.00
ROOF LIVE LOAD [IBC 1607.1]	20.00
SNOW LOAD	
GROUND SNOW LOAD [IBC 1608.2]	Ps = 5.00
SLOPED ROOF SNOW LOAD [IBC 1608.2]	Ps = 0.00
SNOW EXPOSURE FACTOR [IBC 1608.2]	Cs = 1.00
SNOW IMPORTANCE FACTOR, Is:	Is = 1.00
THERMAL FACTOR, Ct:	Ct = 1.20
SLOPED FACTOR, Cs:	Cs = 1.00
WIND DESIGN	
BUILDING ENCLOSURE [1604.5]	II - NORMAL
ENCLOSURE CLASSIFICATION [ASCE 26.2]	ENCLOSED
WIND EXPOSURE [1609.4.3]	C
ULTIMATE WIND SPEED (Vult) [1609.3]	130.00
NOMINAL WIND SPEED (Vnom) [1609.3.1]	100.70
INTERNAL PRESSURE, Cpi [ASCE 26.11-1]	0.18/-0.18
C&W WIND PRESSURE (psf)	47.6/-51.6
ANALYSIS METHOD [ASCE CHAPTER 27]	DIRECTIONAL PROCEDURE
SEISMIC DESIGN	
IMPORTANCE FACTOR [ASCE 11.5]	Ib = 1.00
MAPPED SPECTRAL RES. ACC. [IBC 1613.3]	Ss = 0.091 S1 = 0.059
SOIL (SITE) CLASS [IBC 1613.3.2]	D
SPECTRAL RES. ACC. PARAM. [IBC 1613.3.4]	Sds = 0.097 Sd1 = 0.095
SEISMIC DESIGN CAT. [IBC 1613.3.5 (1)&(2)]	SDC = B
BASIC S.F.R.S. [ASCE 12.2 OR 12.14.4]	B
DESIGN SHEAR [ASCE 12.8.1 OR 12.14.8.1]	V = 2.716
SEISMIC RESPONSE COEFF. [ASCE 12.8.1.1]	Cs = 0.029
RESPONSE MOD. FACTOR [ASCE 12.2-1]	R = 3.25
ANALYSIS PROCEDURE [ASCE 12.6 OR 12.14]	EQUIV. LATERAL FORCE

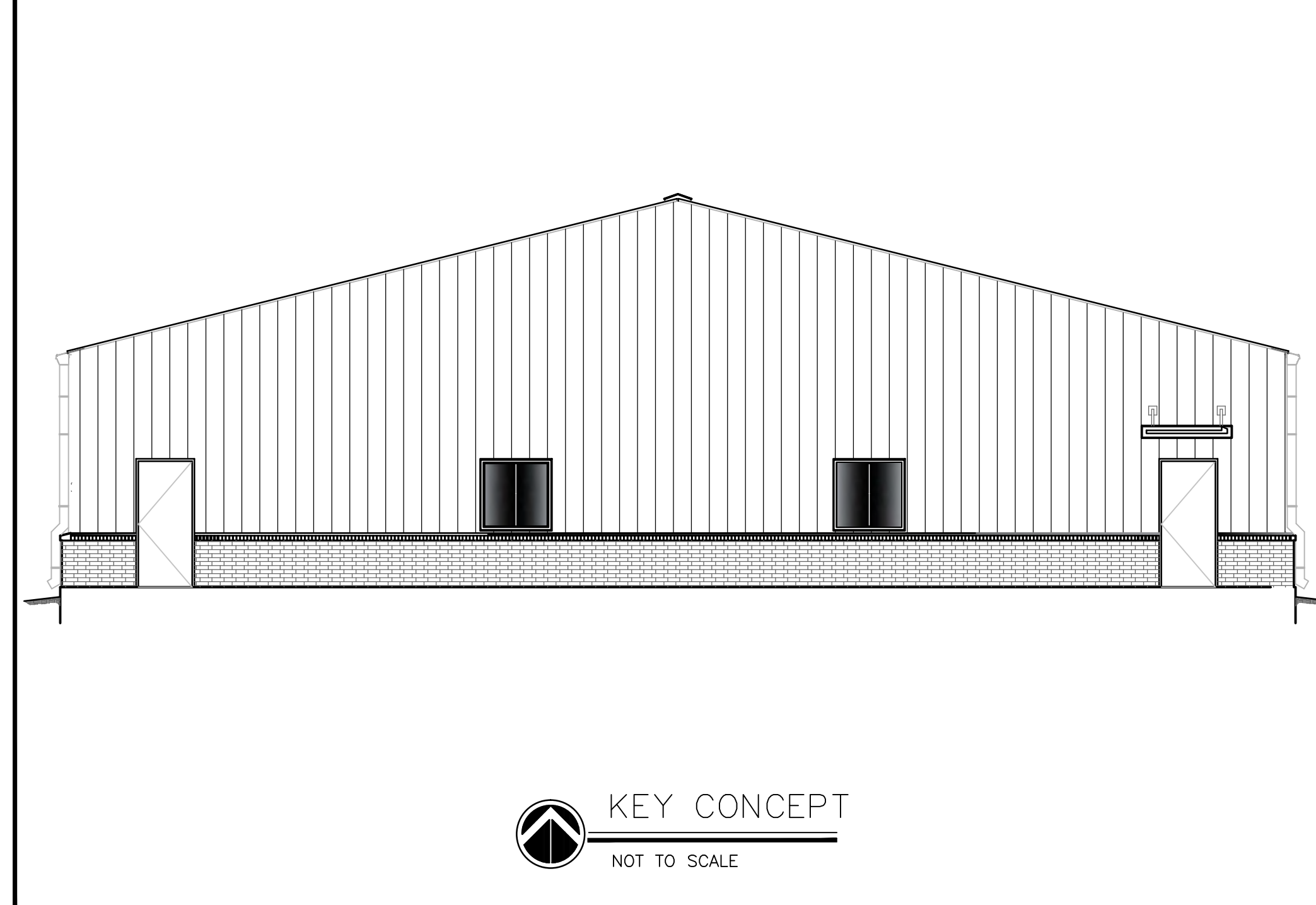
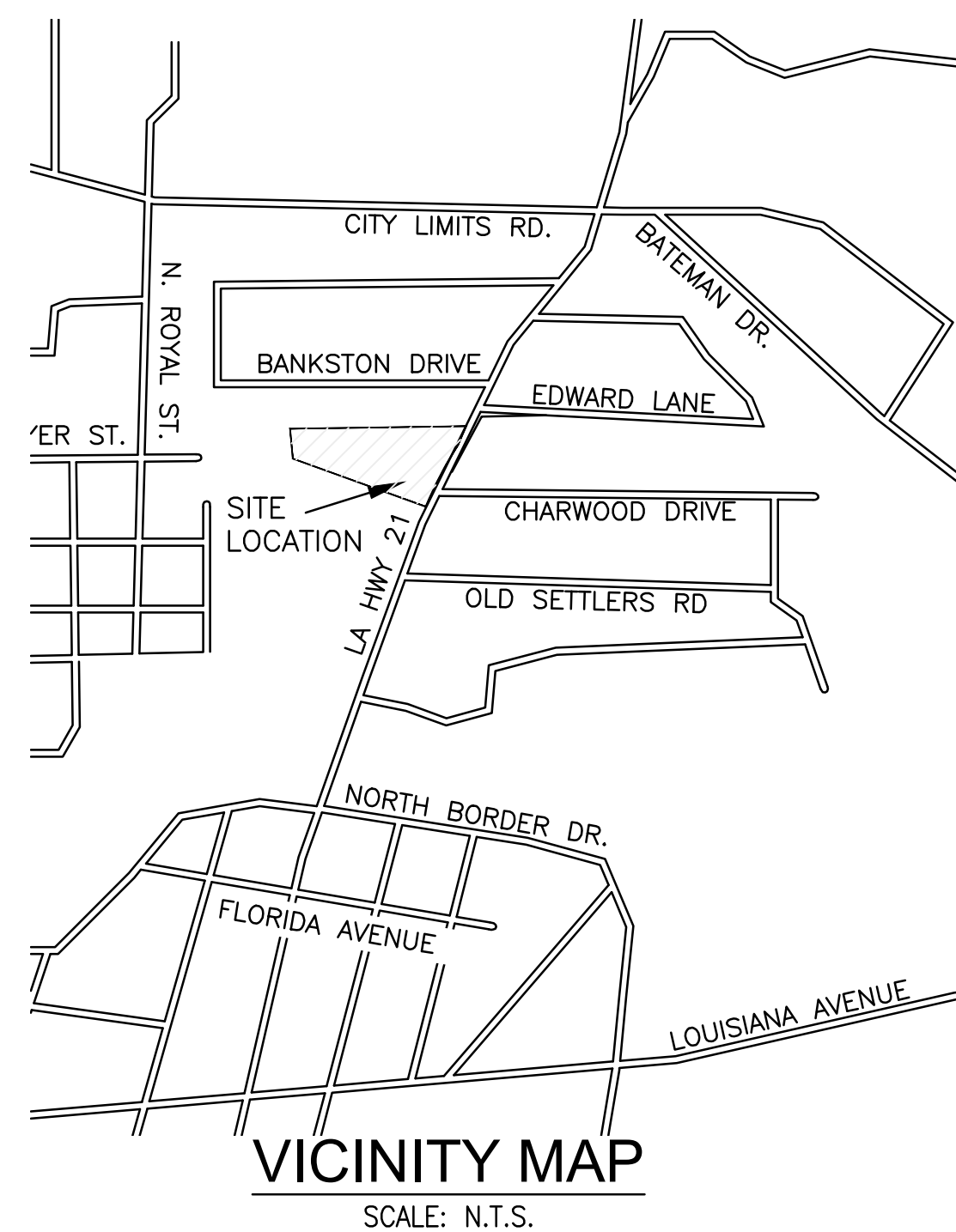
PRELIMINARY DOCUMENT
NOT INTENDED FOR CONSTRUCTION,
BIDDING, SALES OR ISSUANCE OF A PERMIT

SYMBOL SCHEDULE



SINAGE NOTE

- SINAGE (IF INCLUDED) IS SHOWN FOR ILLUSTRATIVE AND CLARITY PURPOSES ONLY, NOT IN CONTRACT. ALL SIGNAGE TO BE PROVIDED BY OWNER.



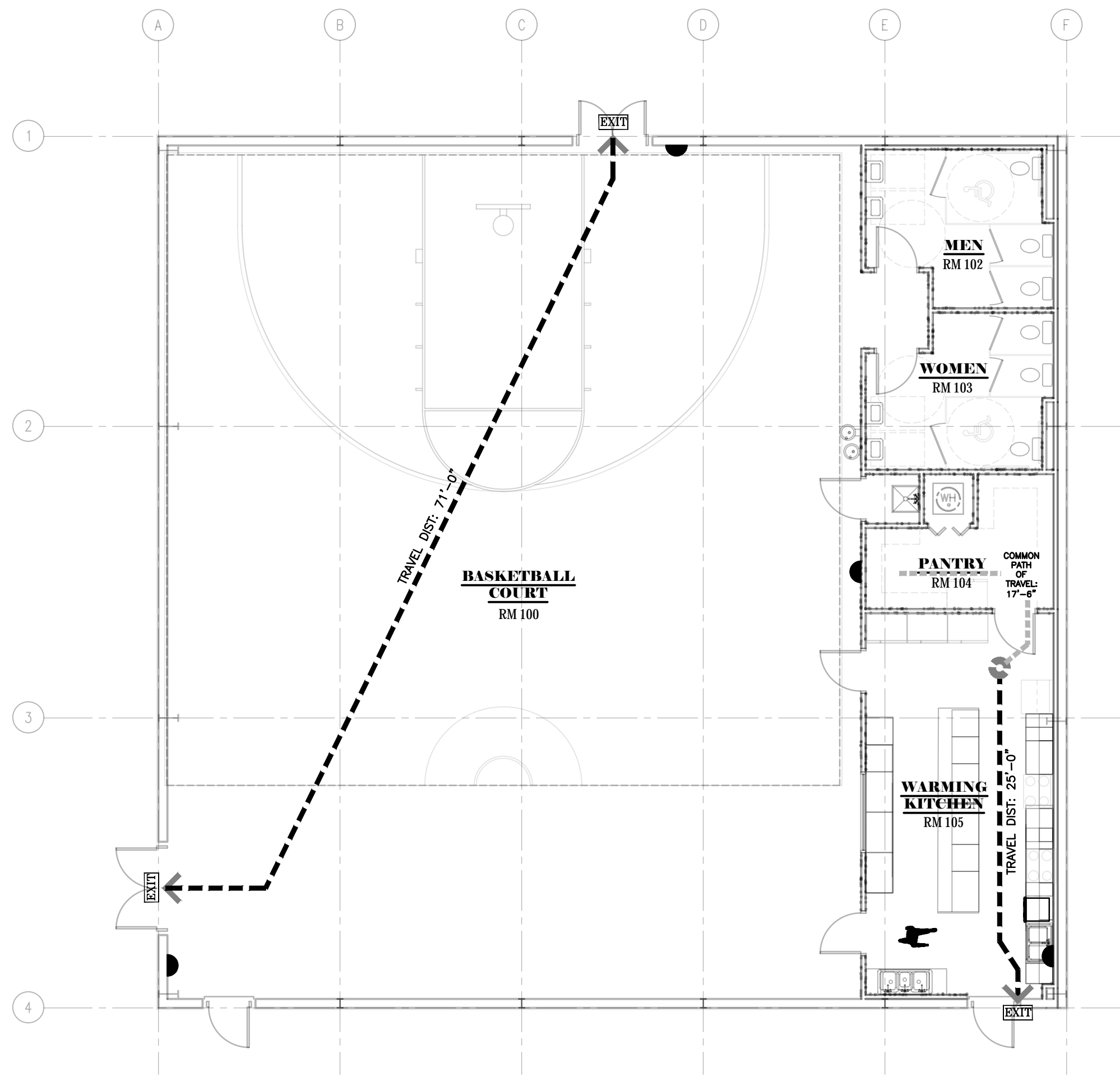
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562 COLUMBIA STREET, BOGALUSA, LA. 70427 P: 985-723-0380
800 MARINER'S PLAZA, SUITE 808, MANDIVILLE, LA. 70448 P: 985-727-7221

A NEW BUILDING FOR
SUPERIOR AVENUE BAPTIST CHURCH
MULTIPURPOSE BUILDING
HIGHWAY 21
BOGALUSA, LOUISIANA
WASHINGTON PARISH

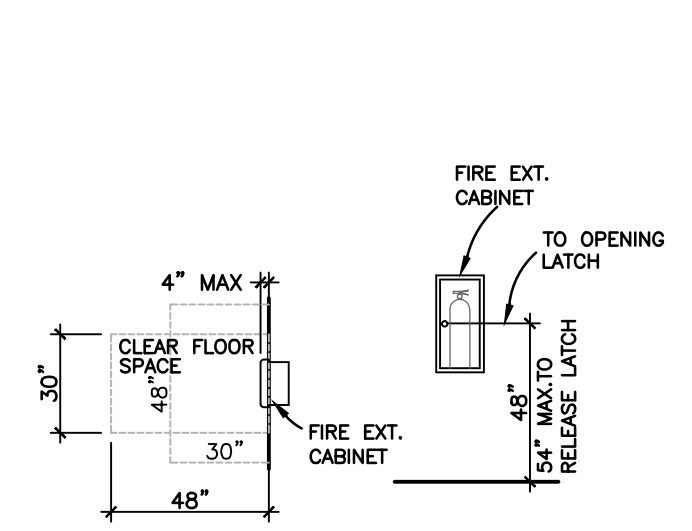
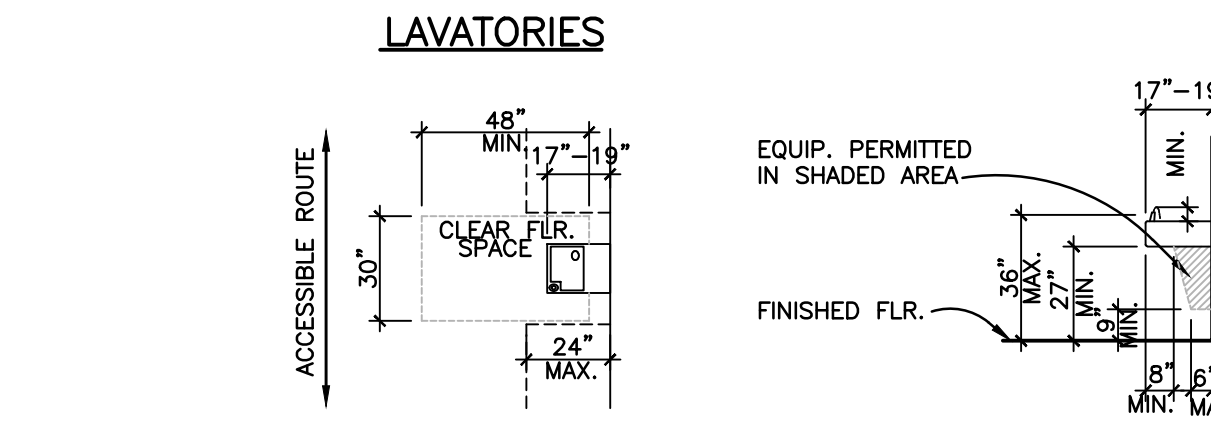
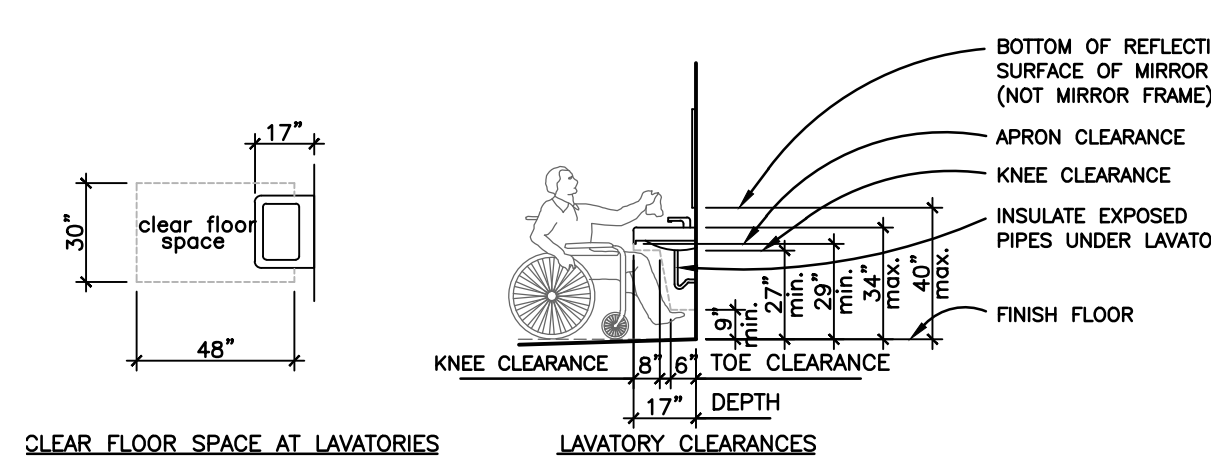
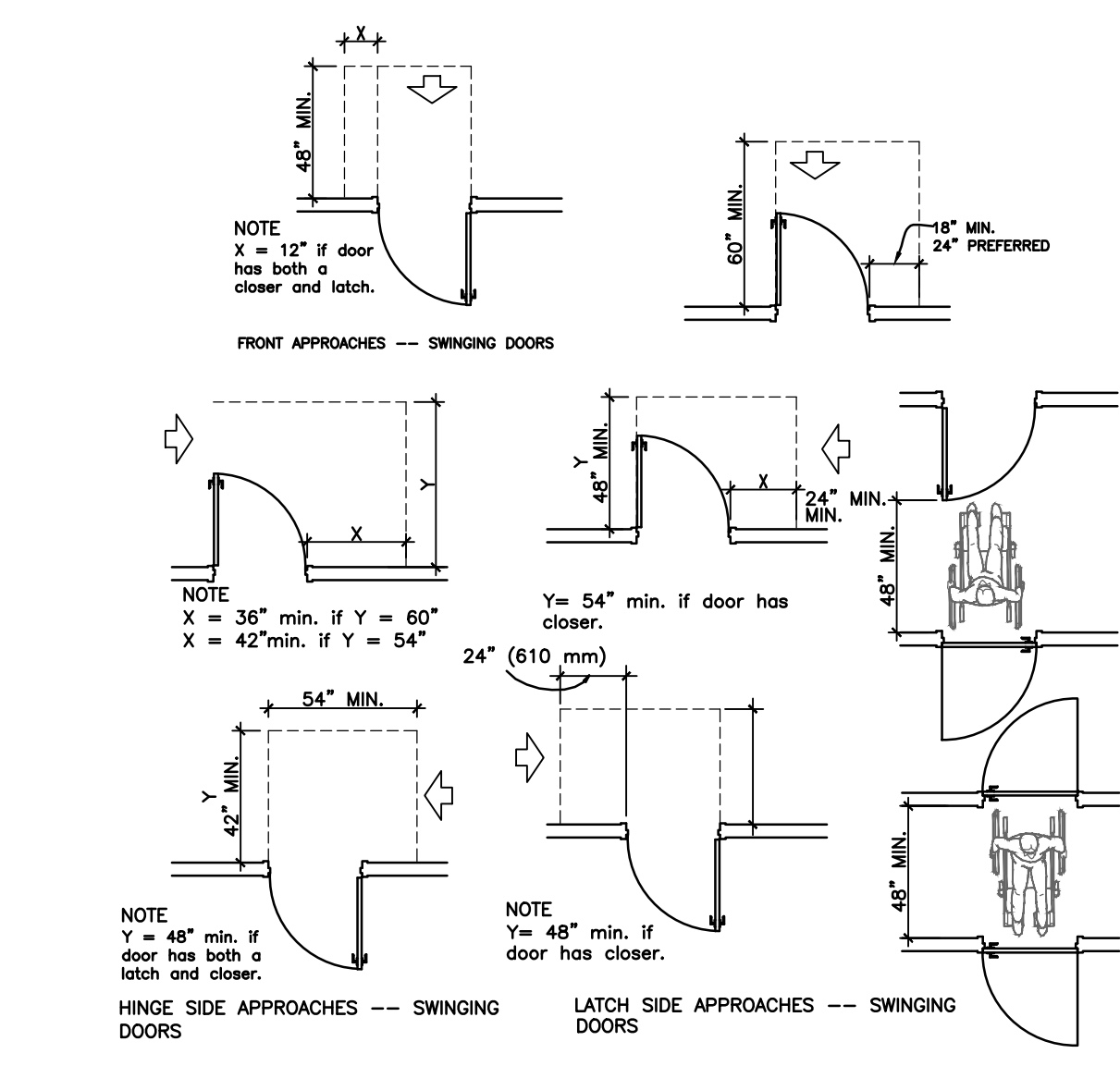
NAME: GEORGE NOBLES
NUMBER: 31767
ENGINEER OF RECORD
CODE DATA
ABBREVIATIONS
VICINITY MAP

Job No: DB-0077
Drawn by: SWL
Checked by: GBN
Date: 01/27/2020
Revised:

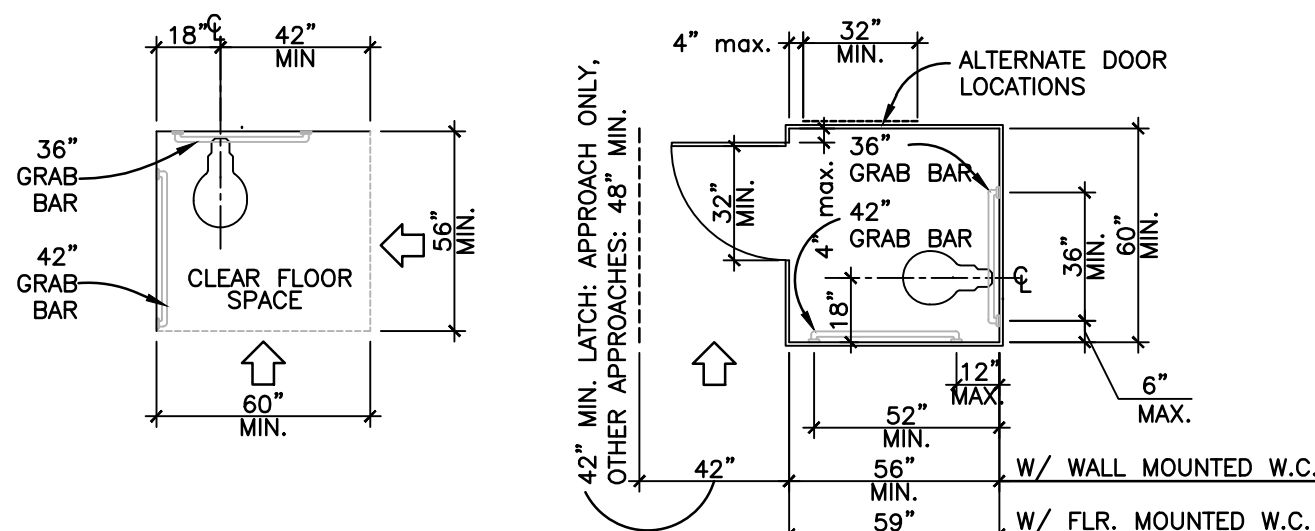
G001



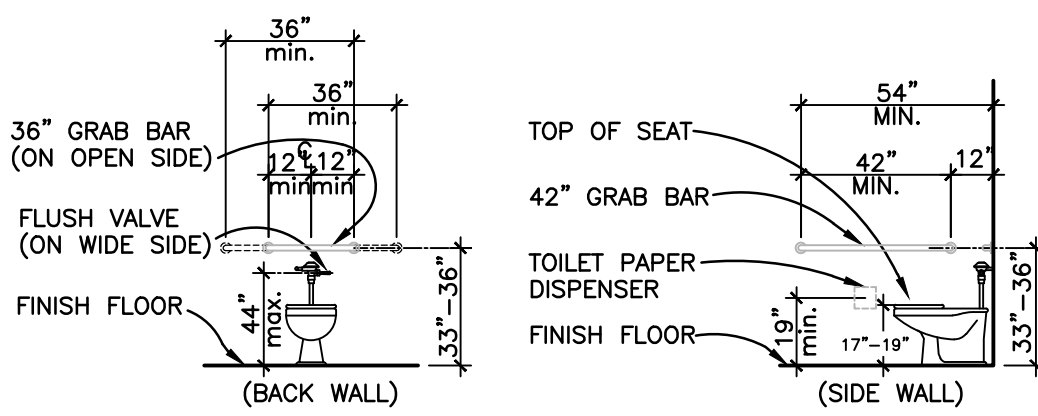
1 LIFE SAFETY PLAN
A001 SCALE: 1/8" = 1'-0"



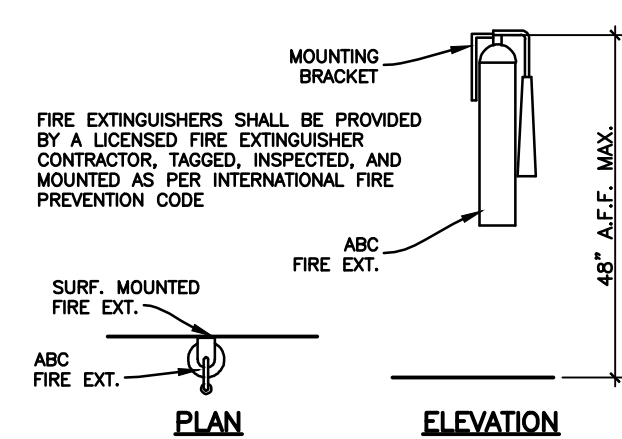
FIRE EXTINGUISHER CABINET CLEARANCES



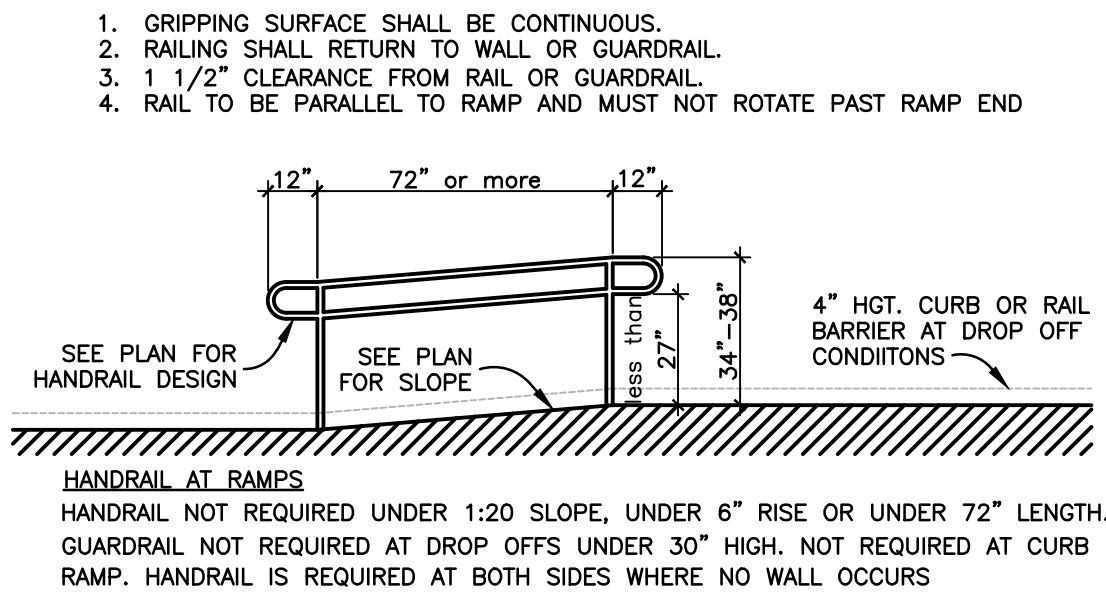
TOILETS AND TOILET STALLS



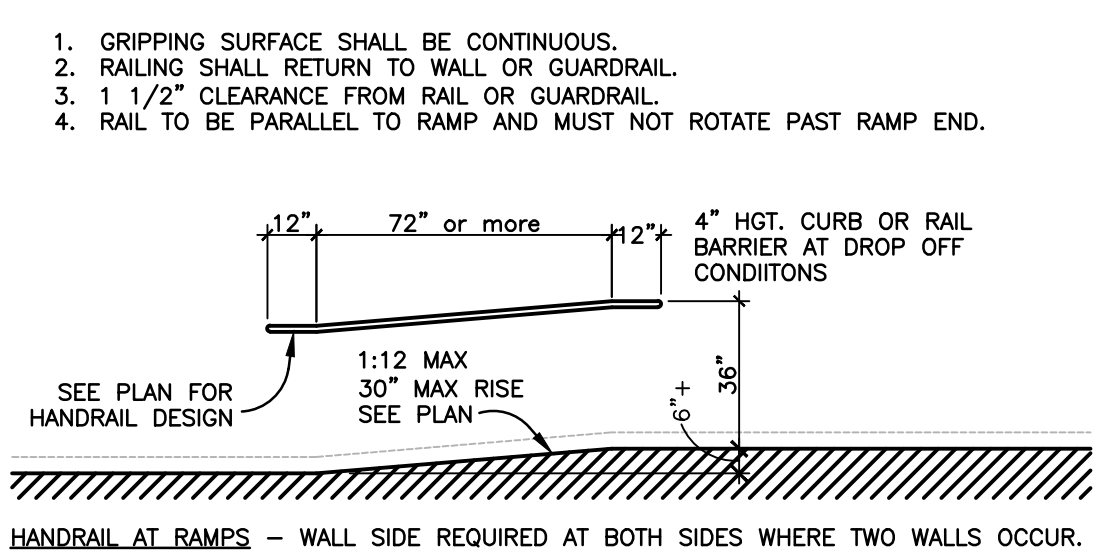
GRAB BARS AT WATER CLOSETS



SURFACE-MOUNT EXTINGUISHER CLEARANCE



HANDRAIL AT RAMP



HANDRAIL AT RAMP - WALL SIDE REQUIRED AT BOTH SIDES WHERE TWO WALLS OCCUR.

CODE DATA	
N.F.P.A. 101 2015 EDITION	
GENERAL SCOPE: CONSTRUCTION OF NEW 4388 SQ. FT. METAL BUILDING TO BE USED AS A MULTIPURPOSE FACILITY.	
OCUPANCY CLASSIFICATION:	(ASSEMBLY - A3: GYMNASIUM) (101:A.6.1.2.1)(12)
OCUPANT LOAD (TABLE 101:7.3.1.2):	3280 SF @ 15 SQFT/PERSON = 219 PERSONS
ASSEMBLY USE (RM 100)	900 SF @ 100 SQFT/PERSON = 9 PERSONS
BUSINESS USE (RMS 102-105)	TOTAL OCCUPANT LOAD: 228 PERSONS
MINIMUM CONSTRUCTION REQUIREMENTS:	TYPE V(000); 1 STORY: OL<300; 101:12.1.6 (ASSEMBLY)
MIN. NUMBER OF EXITS:	2 PER, (101:12.2.4) & (101:7.4.1.31) (ASSEMBLY)
COMMON PATH OF TRAVEL (CPT):	20' OL>50, 75' OL<50 (101:12.2.5.1.2) (ASSEMBLY)
TRAVEL DISTANCE TO EXIT (TD):	200' MAX. (101:12.2.6.2) (ASSEMBLY)
DEAD END CORRIDOR:	20' MAX. (101:12.2.5.1.3) (ASSEMBLY)
CLASSIFICATION OF HAZARDS CONTENTS:	ORDINARY HAZARD (101:6.2.2.3) (ASSEMBLY)
ILLUMINATION OF MEANS OF EGRESS	REQUIRED (101:12.2.8 & 101:7.8) (ASSEMBLY)
EMERGENCY LIGHTING:	REQUIRED OUTSIDE (101:12.7.9.1.1) (ASSEMBLY)
FIRE ALARM SYSTEM:	NOT REQUIRED OL<300, (101:12.3.4.1.1) (ASSEMBLY)
EXTINGUISHER SYSTEM:	PORTABLE, AS PER NFPA 1:13.6.1.2
INTERIOR FINISH	AS PER (101:12.3.3; TABLE A.10.2.2) (ASSEMBLY)
WALLS AND CEILINGS	CLASS A, B OR C, OL<300 (ASSEMBLY)
EXITS	CLASS A (ASSEMBLY)
EXIT ACCESS CORRIDORS	CLASS A OR B (ASSEMBLY)
OTHER SPACES	CLASS A, B OR C (ASSEMBLY)
INTERIOR FLOOR FINISH	AS PER 101:12.3.3.5 (ASSEMBLY)
EXIT ACCESS CORRIDORS & EXIT ENCLOSURES	CLASS I OR II (TABLE A.10.2.2) (ASSEMBLY)
SPRINKLER REQUIREMENTS	NOT REQUIRED OL<300, (101:12.3.5.2) (ASSEMBLY)
INTERNATIONAL BUILDING CODE 2015 EDITION	
GENERAL SCOPE: NEW CONSTRUCTION - 4,388 SQ.FT. METAL BUILDING FOR GYMNASIUM	
OCUPANCY CLASSIFICATION:	GYMNASIUM [ORDINARY HAZARD] (IBC 303.4: A-3)
CONSTRUCTION TYPE:	VB - NOT SPRINKLERED (TABLE 601)
TOTAL SQUARE FOOTAGE:	4,388 SQFT
ALLOWABLE SQUARE FOOTAGE:	4,388 < 6,000 (IBC TABLE 506.2)
BUILDING HEIGHT:	12'-0"
FIRE PROTECTION SYSTEMS	
SPRINKLER SYSTEM:	NOT REQUIRED (IBC 903.2.1.3)
FIRE ALARM:	NOT REQUIRED (IBC 907.2.1) OL<300
FIRE EXTINGUISHER:	REQUIRED (IBC 906.1)
FIRE-RESISTANCE RATING: (TABLE 601)	
	STRUCTURAL FRAME 0 HRS
	BEARING WALLS (INT. & EXT.) 0 HRS
	ROOF CONSTRUCTION 0 HRS
	EXTERIOR WALLS 0 HRS
IBC 2015 WIND LOADING:	
	ULTIMATE WIND SPEED 132 MPH
	ENCLOSED BUILDING
	EXPOSURE C (IBC 1609.4)
	CATEGORY II (IBC 1604.5) (w=1)

SYMBOL LEGEND	
	COMMON PATH OF TRAVEL (CPT)
	TRAVEL DISTANCE TO EXIT (TD)
	TERMINATION OF COMMON PATH OF TRAVEL
	1 HOUR RATED PARTITION
	2 HOUR RATED PARTITION
	EXIT TO GRADE
	FIRE EXTINGUISHER CABINET

CODE NOTES	
aisle/path of travel notes:	FIRE EXTINGUISHER NOTE:
1. THE TOTAL WIDTH OF MEANS OF EGRESS IN INCHES SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS AND NOT LESS THAN 36"	1. G.C. TO PROVIDE AND INSTALL (1) PORTABLE FIRE EXTINGUISHER FOR EVERY 1,500 SQ.FT. OF FLOOR AREA (MIN OF 3). TRAVEL DISTANCE TO ANY EXTINGUISHER SHALL NOT EXCEED 75 FEET. ALL EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED AND READILY ACCESSIBLE. (ACTUAL LOCATION T.B.D. IN FIELD BY OWNER/G.C. & APPROVED BY FIRE MARSHAL)
2. REQUIRED AISLES SHALL BE NO LESS THAN 36 INCHES IN CLEAR WIDTH.	EXTINGUISHER MODEL # SHI-SA12ABC
3. THE AGGREGATE WIDTH OF EXIT AISLES SHALL BE NO LESS THAN THE REQUIRED WIDTH OF THE EXIT.	
4. EXIT DISCHARGE SHALL COMPLY WITH ALL PERTINENT CODES AND LOCAL ORDINANCES.	

NOBLES & ASSOCIATES L.L.C.
PROFESSIONAL ENGINEERS, LAND SURVEYORS, & DESIGNERS
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NEW BUILDING FOR
SUPERIOR AVENUE CHURCH
MULTIPURPOSE FACILITY
HIGHWAY 21, BOGALUSA, LA 70427

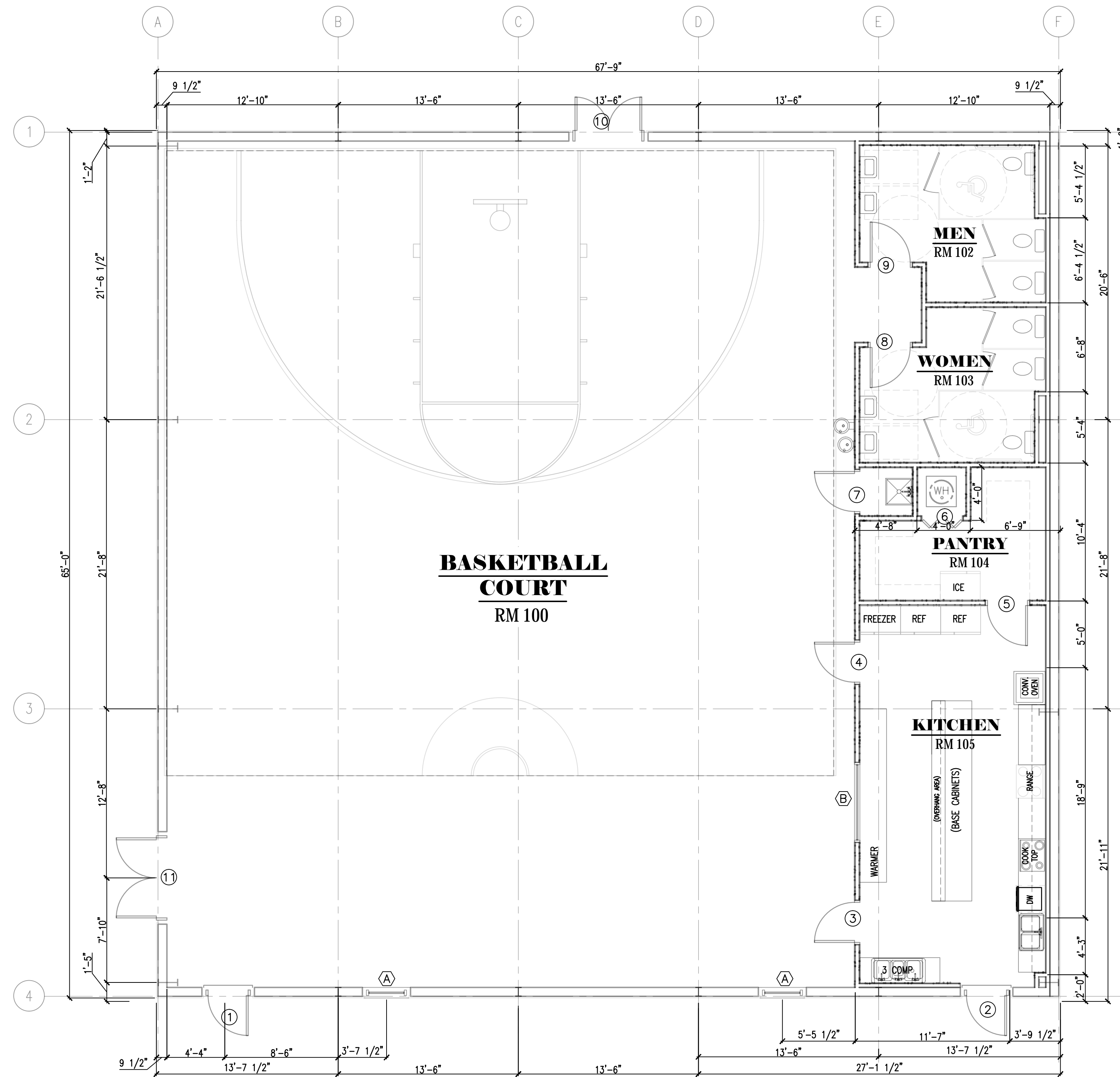
Rev. No.	Description	Date

ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

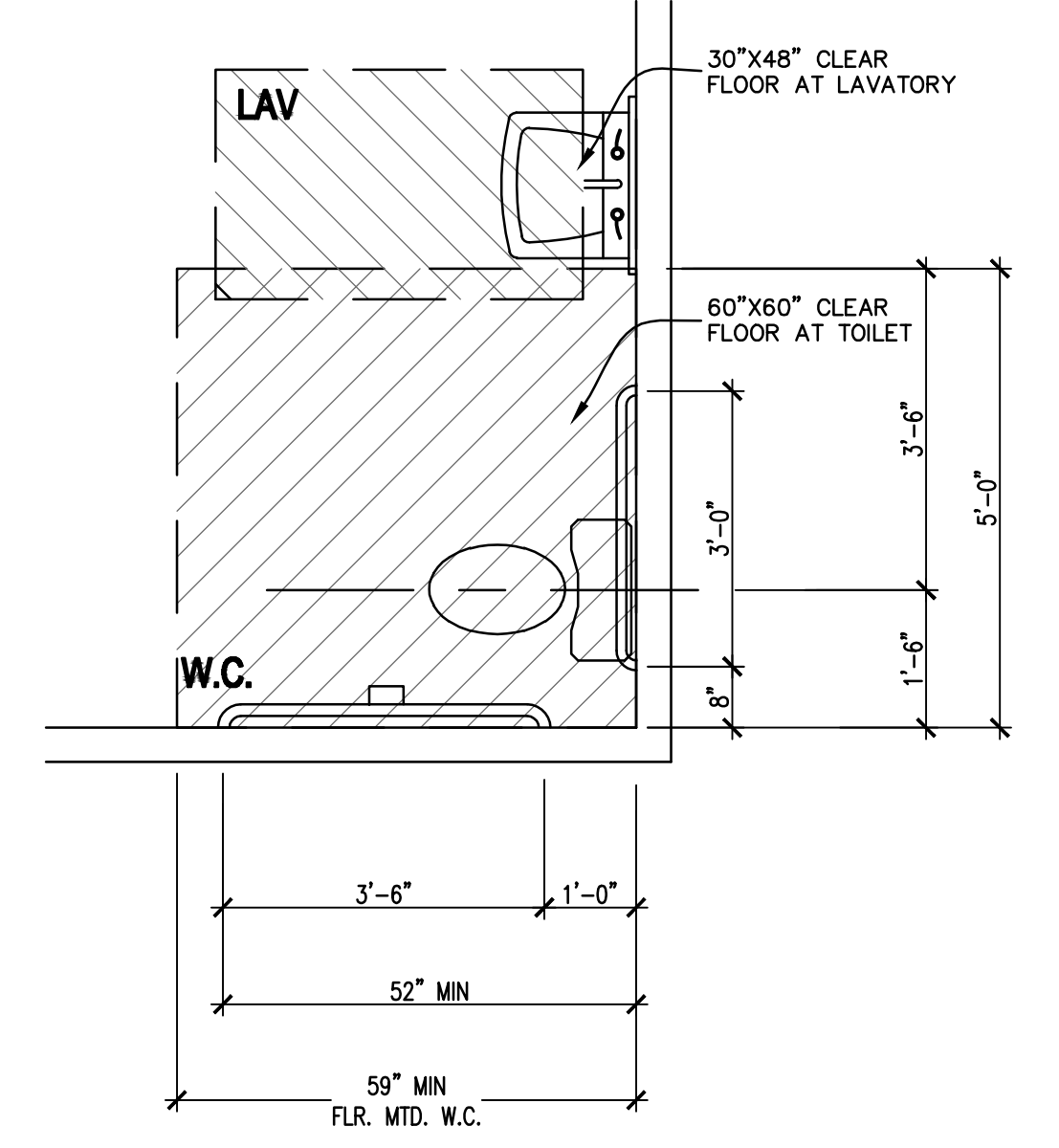
LIFE SAFETY PLAN

Job No.	E-00165
Dwn.	Chk.
SWL	GBN
Date	Rev.
01/25/2022	REV. 0

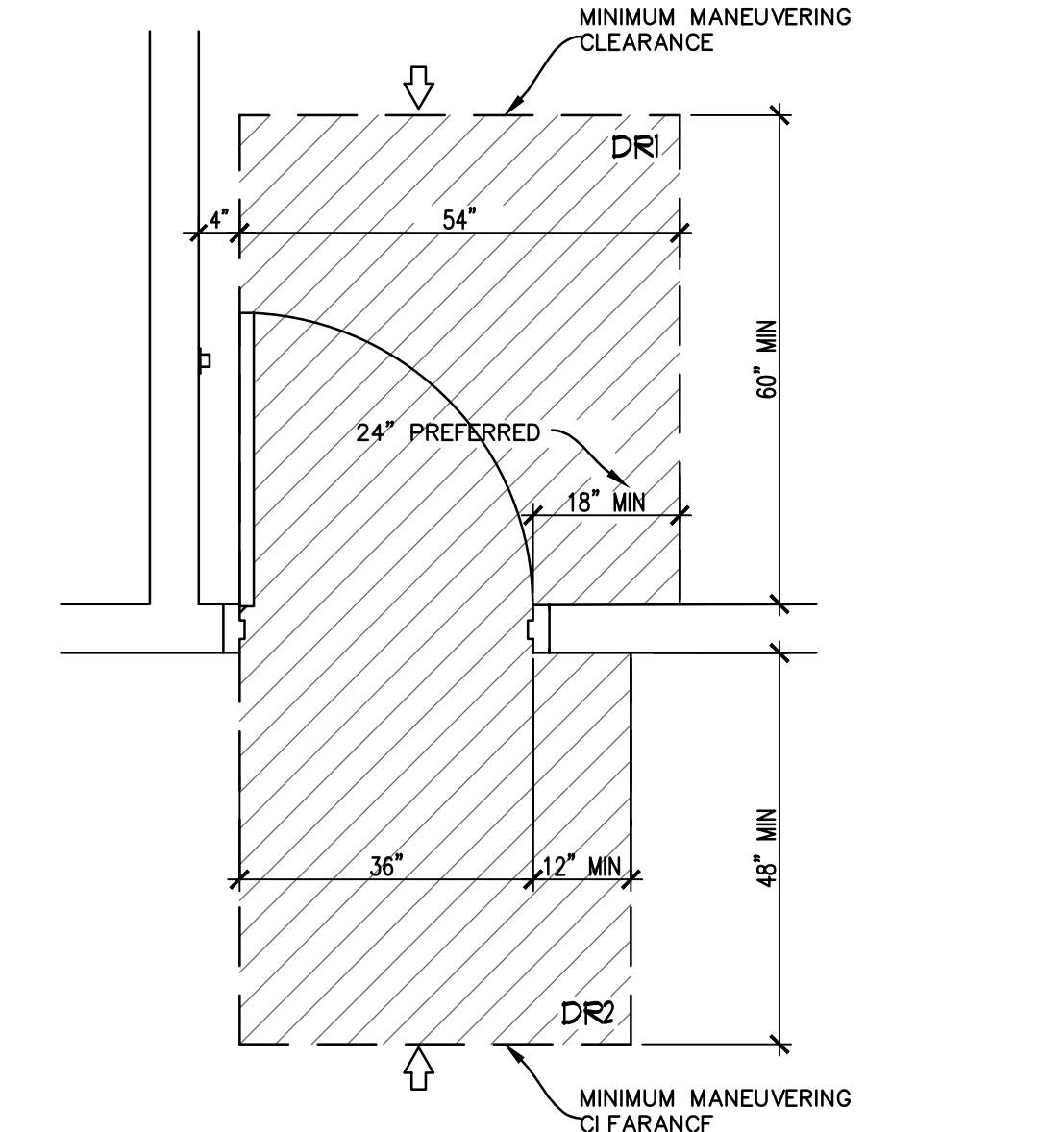
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1 FLOORPLAN
 SCALE: 3/16"=1'
 A102



3 TYP. MIN. W.C. & LAV. CLEAR SPACE
 SCALE: NTS



2 TYP. MIN. MANUEVERING CLR. @ DOORS
 SCALE: NTS

RESTROOM NOTES:

- LAYOUT OF RESTROOM FACILITIES SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING ALL ADA REQUIREMENTS.
- UNLESS OTHERWISE NOTED - RESTROOM SHALL BE EQUIPPED WITH THE FOLLOWING ACCESSIBLE FOR EACH:
 - 1 EA. 24"X36" WALL MIRROR CONCEALED MOUNTING OVER EACH LAVATORY. INSTALL WITH REFLECTIVE SURFACE @ 40" A.F.F.
 - 1 EA. TOILET TISSUE HOLDER APPROVED BY OWNER. INSTALL WITH CENTER LINE @ 24" A.F.F.
 - 1 EA. 1-1/2" X 36" & 42" S.S. CODE APPROVED GRAB BARS WALL (OR FLOOR) MOUNTED AS REQUIRED. INSTALL GRAB BARS @ 34" - 36" A.F.F.
 - 1 EA. PAPER TOWEL DISPENSER INSTALL WITH OPERATING MECHANISM @ 48" A.F.F. LOCATED ON SIDE WALL TO LAVATORY.
 - 1 EA. CODE APPROVED ROOM IDENTIFICATION SIGN INSTALLED ADJACENT TO STRIKE JAMB/LATCH SIDE OF DOOR WITH HORIZONTAL CENTERLINE @ 60" A.F.F.
 - DOOR HARDWARE MUST BE SINGLE ACTION AND MOUNTED BETWEEN 34" (MIN.) AND 48" (MAX.)
 - SPECIFIC FLOOR LOCATIONS OF ITEMS LISTED ABOVE MAY VARY BASED ON SPECIFIC DETAILS. VERIFY WITH OWNER IF ANY DISCREPANCIES ARISE.
 - INSTALL CONTINUOUS FIRE RETARDANT TREATED 2"x6" PINE BLOCKING BETWEEN STUDS FOR ALL HANDRAILS, GRAB BARS, FIXTURES, BRACKETS, ACCESSORIES, CABINETS, AND MISC SPECIAL TIES AS REQUIRED.
 - 48" X 48" AREA IS REQUIRED TO BE CONSTRUCTED OF NON ABSORBENT MATERIALS IMMEDIATELY ADJACENT ALL WATER CLOSETS ON SIDE AND REAR WALLS. (PAINT IS NOT AN ACCEPTABLE SURFACE FINISH AT THESE AREAS.)
 - USE MOISTURE RESISTANT DRYWALL FOR RESTROOM WALLS AND MOISTURE RESISTANT ACOUSTIC TILES FOR CEILINGS.
- GRAB BARS SHALL WITHSTAND A LOAD OF 300 LB. WITHOUT PERMANENT DEFLECTION. GRAB BARS TO BE 1-1/2" IN DIAMETER & CONTINUOUS WITH 1-1/2" CLEARANCE FROM THE WALL & CENTER SUPPORT. GRAB BARS SHALL BE INSTALLED PARALLEL WITH THE FLOOR AND SHALL CONFORM TO THE DIMENSIONS SHOWN HEREIN.
- IF ONE HANDICAPPED TOILET IS PROVIDED ITS HEIGHT MAY BE WITHIN THE RANGE OF 19" TO 20". IF MORE THAN ONE TOILET IS PROVIDED IT SHALL BE AT 20" HEIGHT.
- AT LEAST (1) MIRROR SHALL BE MOUNTED NO HIGHER THAN 40" FROM THE FLOOR TO THE REFLECTIVE SURFACE OR THE MIRROR SHALL BE TILTED FOR VISIBILITY.
- ALL DISPENSING MACHINES SHALL BE NO MORE THAN 40" FROM FINISHED FLOOR.
- PROVIDE A 5'X5' TURNING RADIUS WITHIN THE TOILET ROOM.
- INCLUDE A FLUSHING MECHANISM OTHER THAN FOOT OPERATED.
- EACH BARRIER FREE TOILET ROOM SHALL HAVE AT LEAST (1) LAVATORY W/A NARROW APRON MOUNTED 29" FROM FINISHED FLOOR TO BOTTOM OF APRON. CONTROLS SHALL BE A MAXIMUM OF 20" FROM THE FRONT LEDGE OF THE VANITY. FROM FLOOR TO LAVATORY RIM SHALL BE 33" HIGH. FAUCETS SHALL HAVE LEVER TYPE HANDLES- NO SELF CLOSING FAUCETS. LAVATORY DRAIN PIPES SHALL BE INSULATED TO PREVENT BURNING.

RESTROOM SIGNAGE NOTES:

- SIGNS SHALL INCLUDE THE FOLLOWING REQUIREMENTS:
 - A. RAISED AND BRAILLE CHARACTERS & PICTOGRAMS
 - B. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH.
 - C. CHARACTERS & SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND
 - D. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN 1:1 AND 2:5 AND STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
 - E. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AND POSITIONED SUCH THAT A PERSON MAY STAND WITHIN 3'-0" OF THE DOOR AND NOT BE WITHIN THE SWING OF THE DOOR.
 - F. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE SIGN.
 - G. MINIMUM SIZE OF SIGNS SHALL BE 6"X6".
- PROVIDE SIGNS AT ALL REST ROOM ENTRANCES.

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 MULTIPURPOSE FACILITY
 HIGHWAY 21, BOGALUSA, LA 70427

Rev. No.	Date	Description

ENGINEER OF RECORD
 NAME: GEORGE NOBLES
 NUMBER: 31767

FLOORPLAN

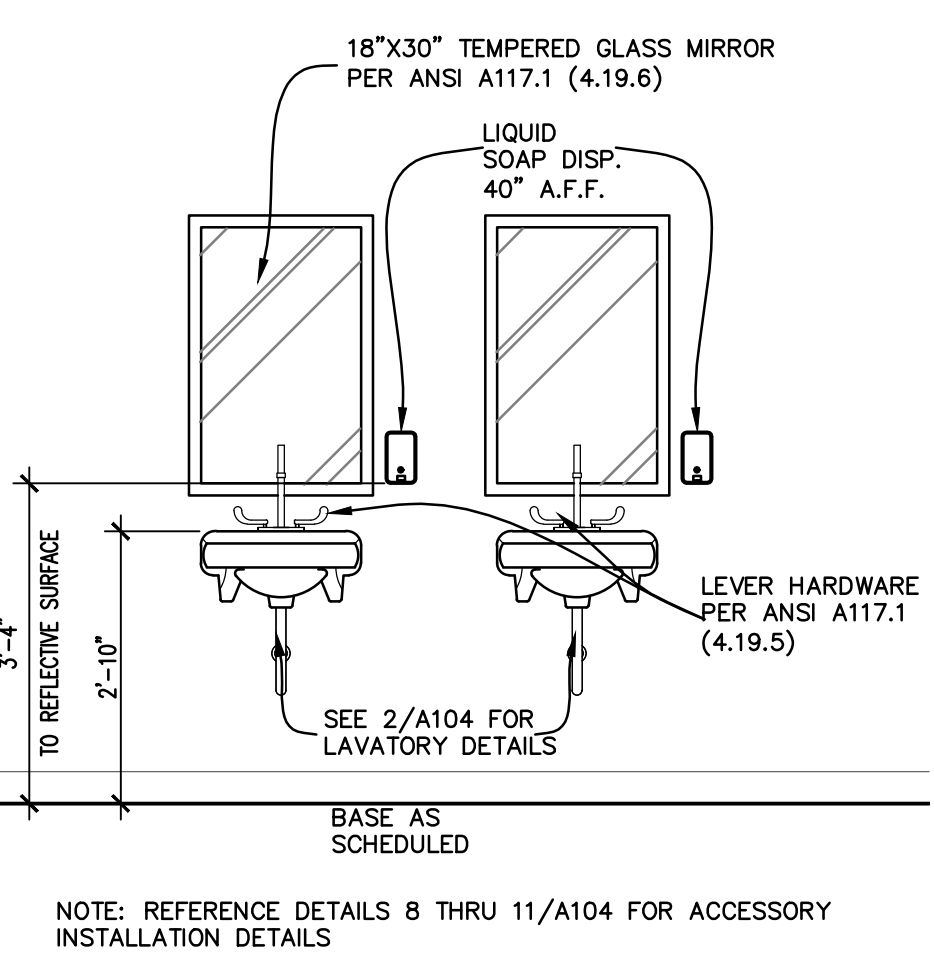
Job No. E-00165

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SWL	GBN
Date	Rev.
01/25/2022	REV. 0

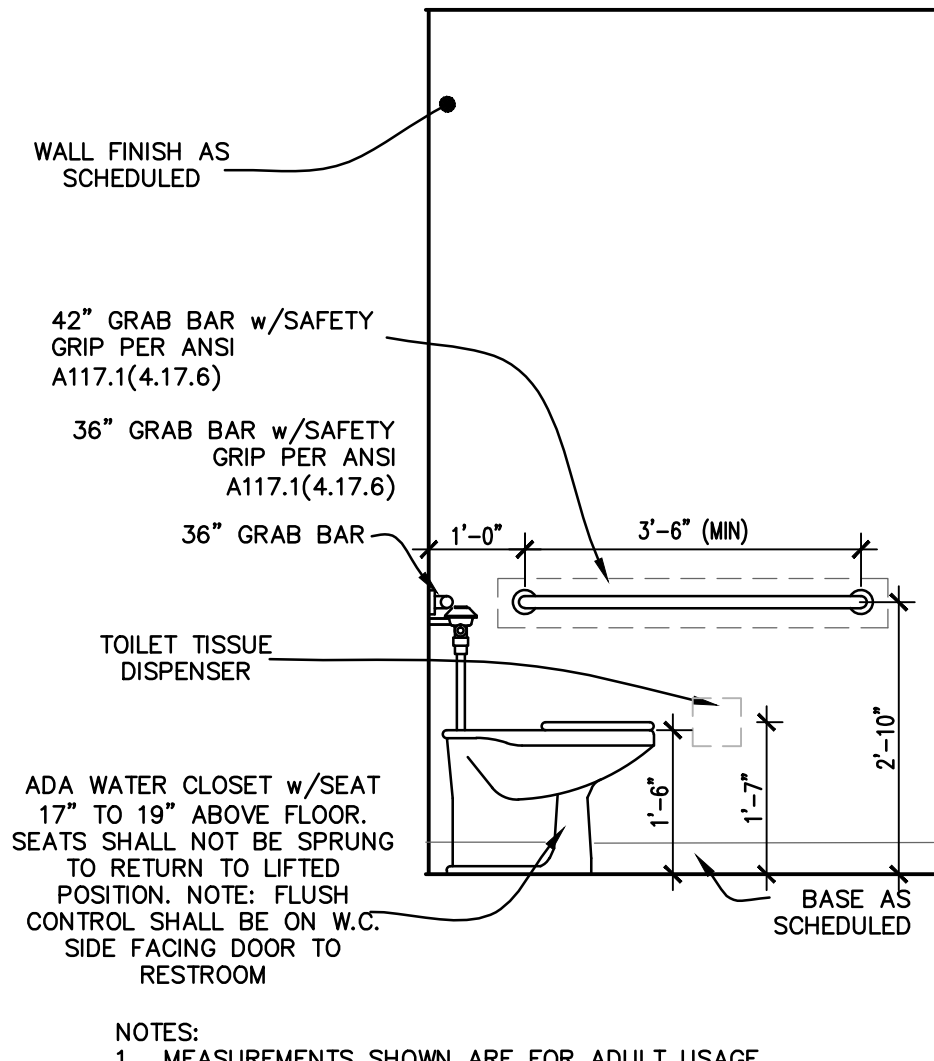
A102
 Sheet 1 of *

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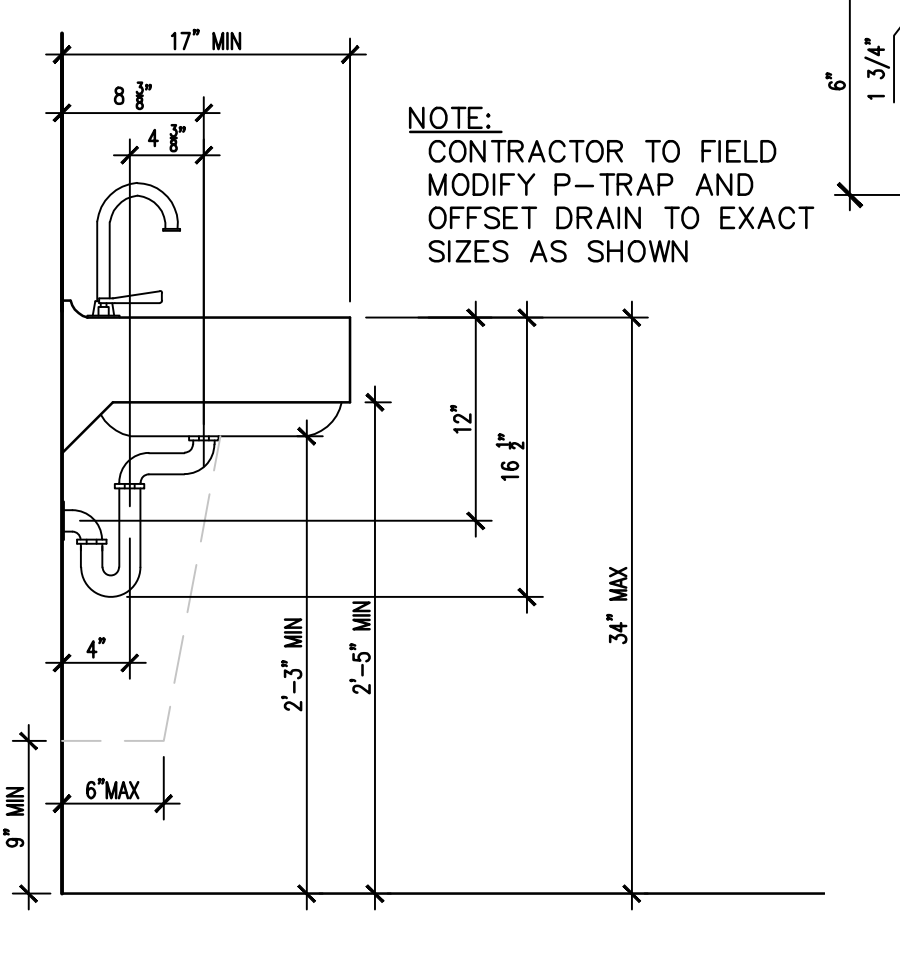
REVISION: 2. ENGINEERING (NEW JOBS) [E-00165] Superior Avenue Church (DWG) MultiPurpose



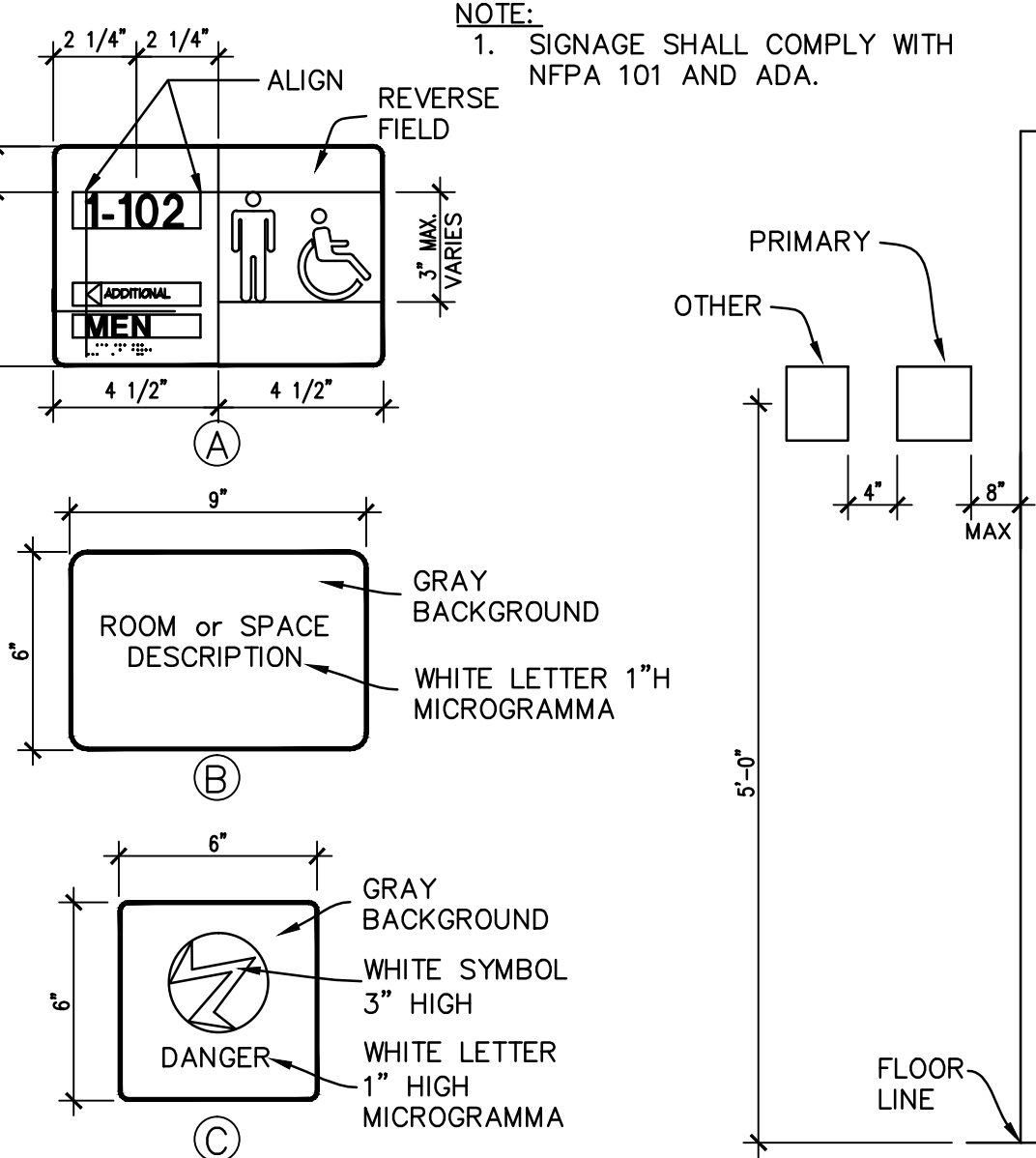
A WEST ELEV. MEN
A104 SCALE: 1/2"=1'



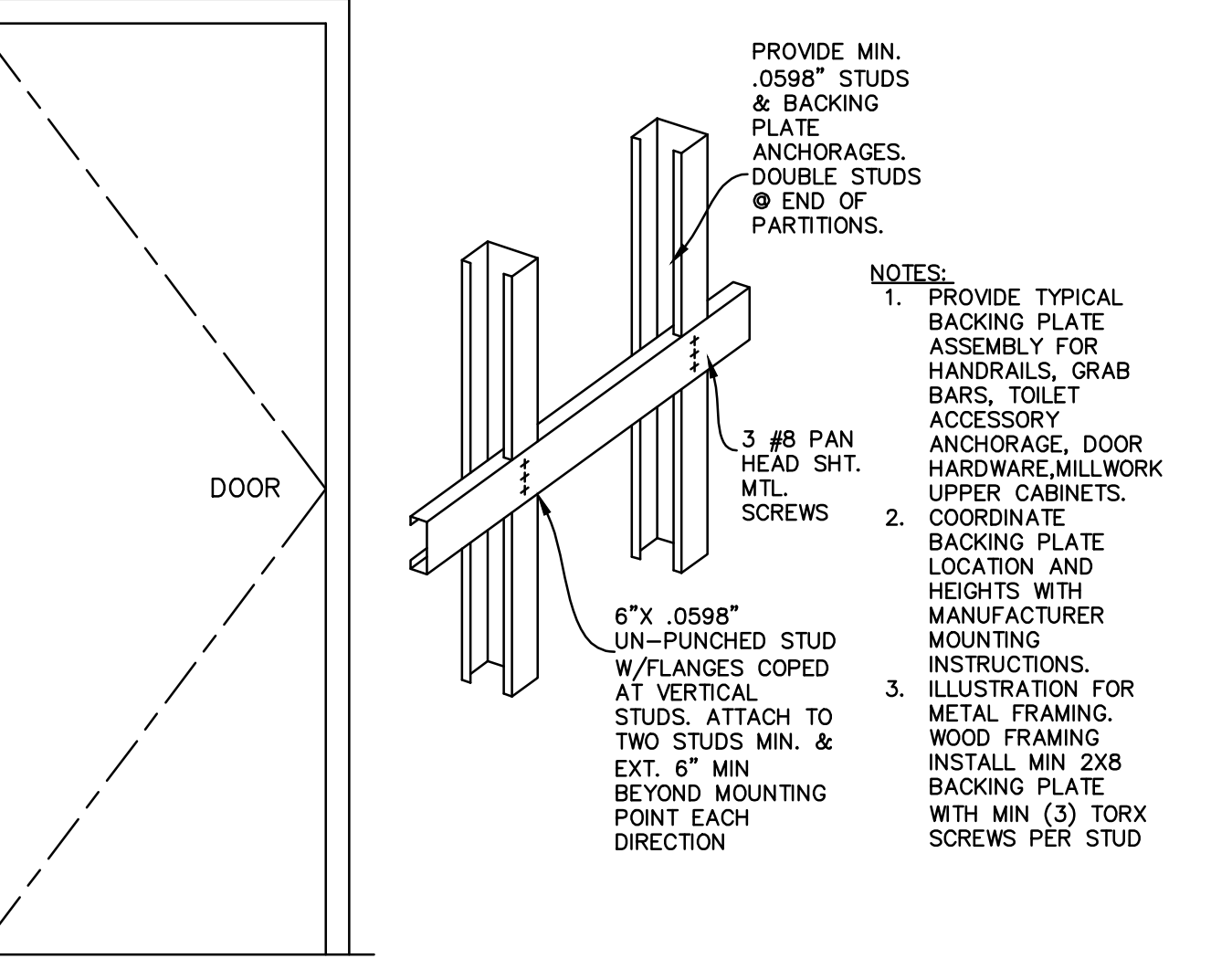
B SOUTH ELEV. WOMEN
A104 SCALE: 1/2"=1'



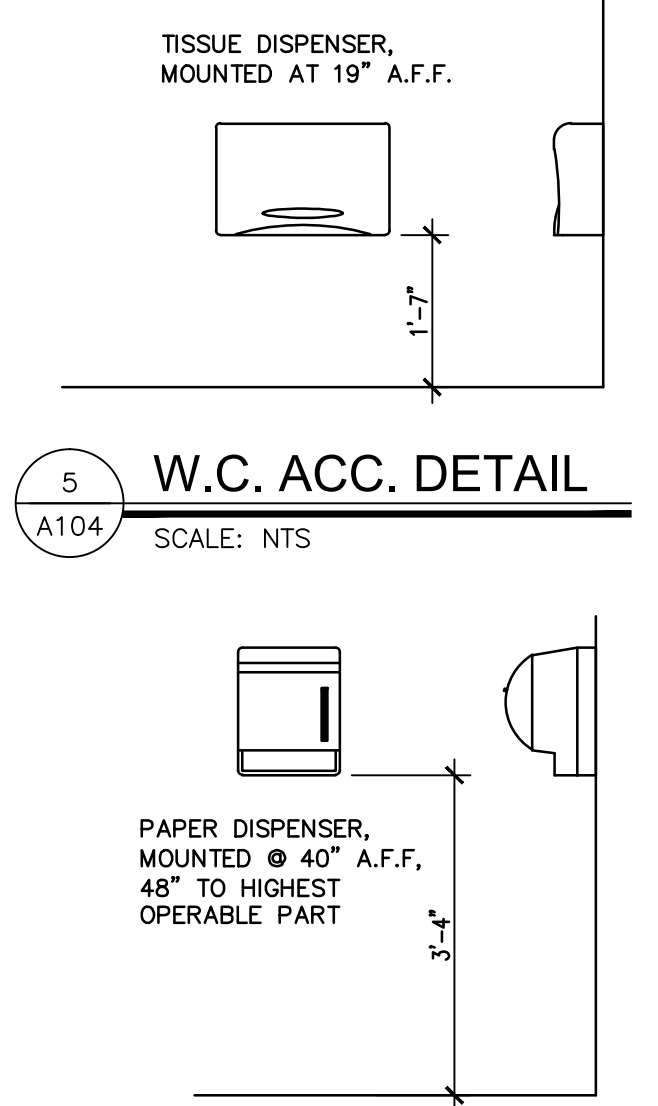
2 TYP ADA LAVATORY DETAILS
A104 SCALE: NTS



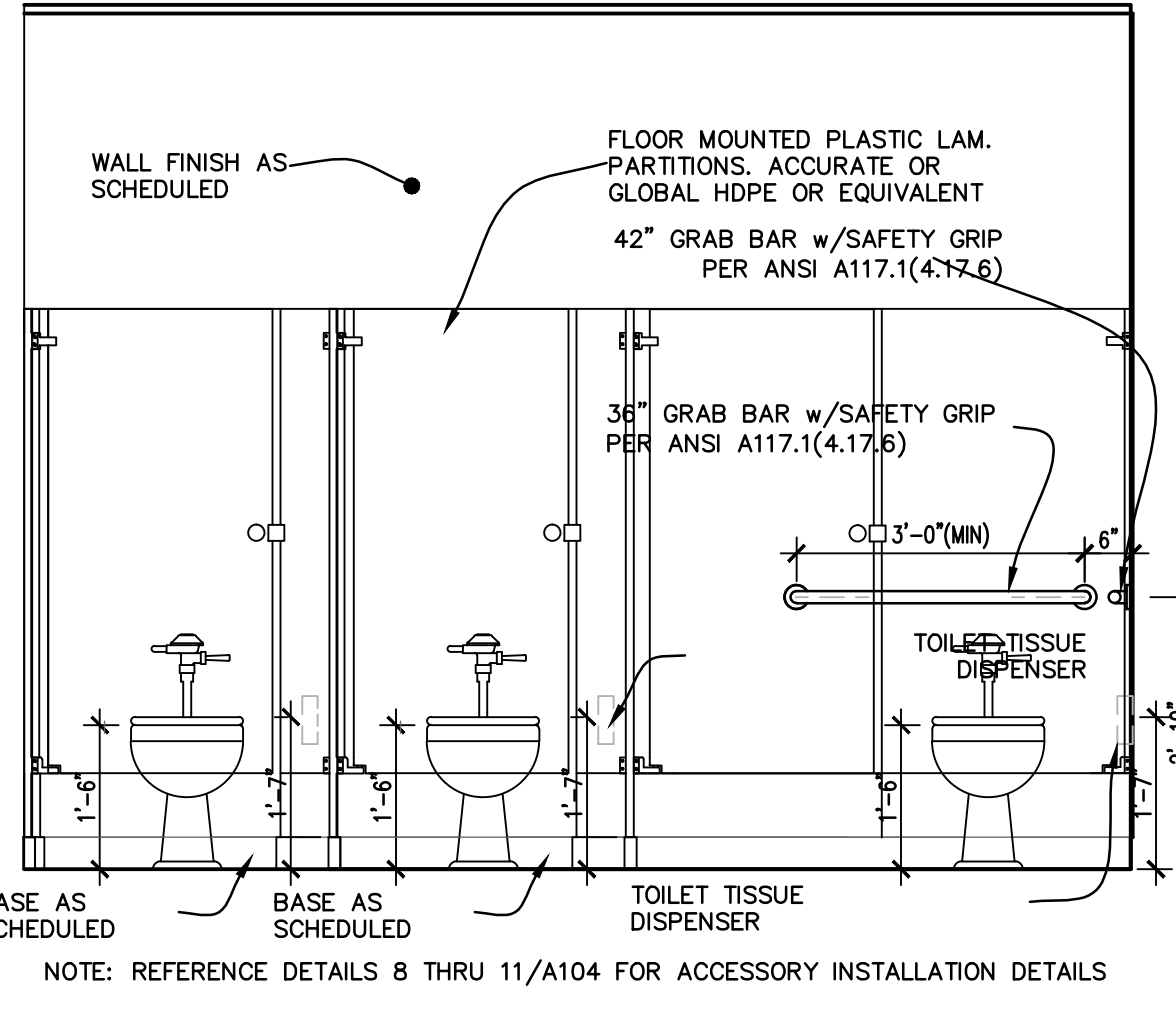
7 TYP. HANDICAP SIGNAGE DETAIL
A104 SCALE: NTS



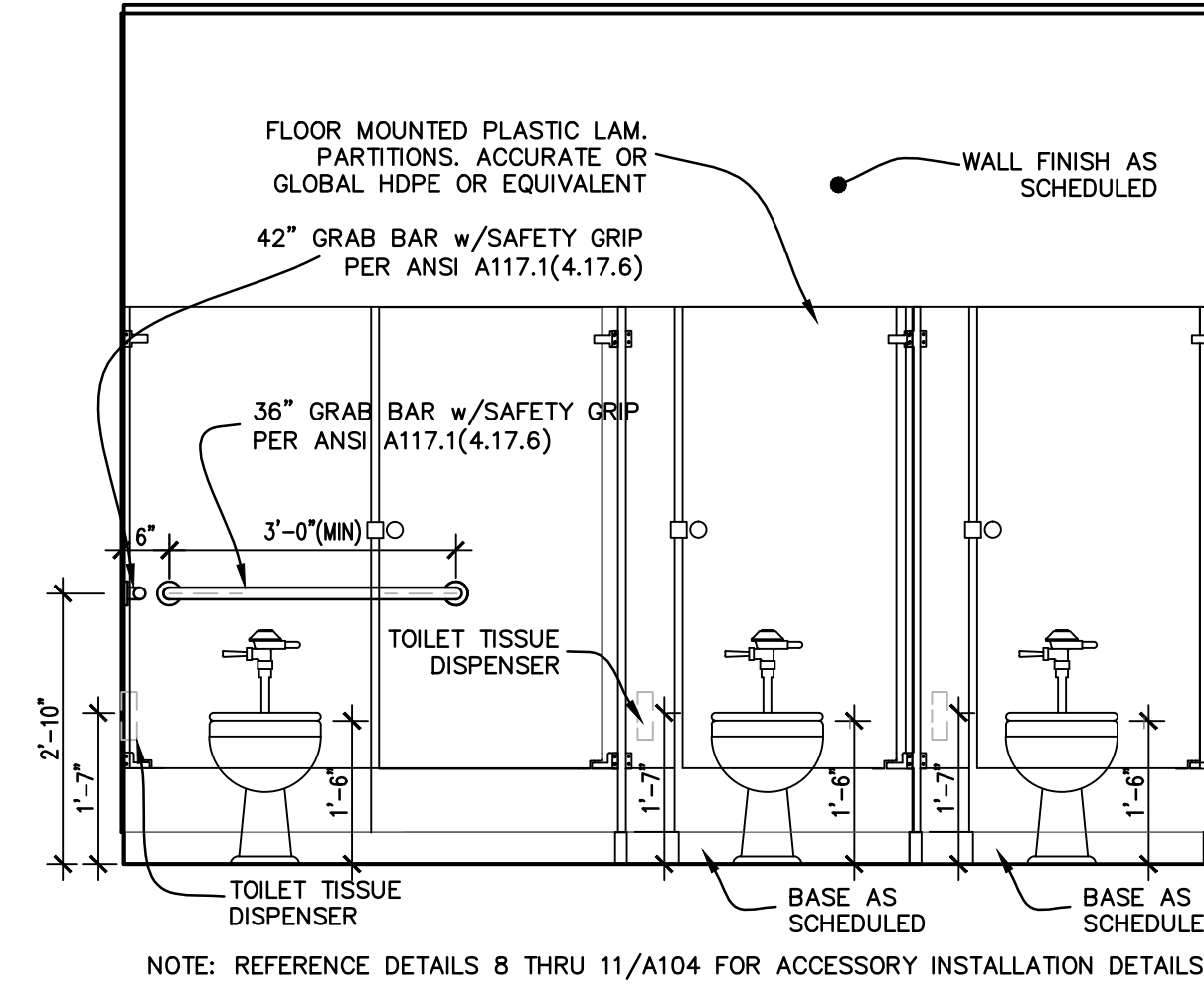
3 TYPICAL BACKING PLATE DETAILS
A104 SCALE: NTS



5 W.C. ACC. DETAIL
A104 SCALE: NTS



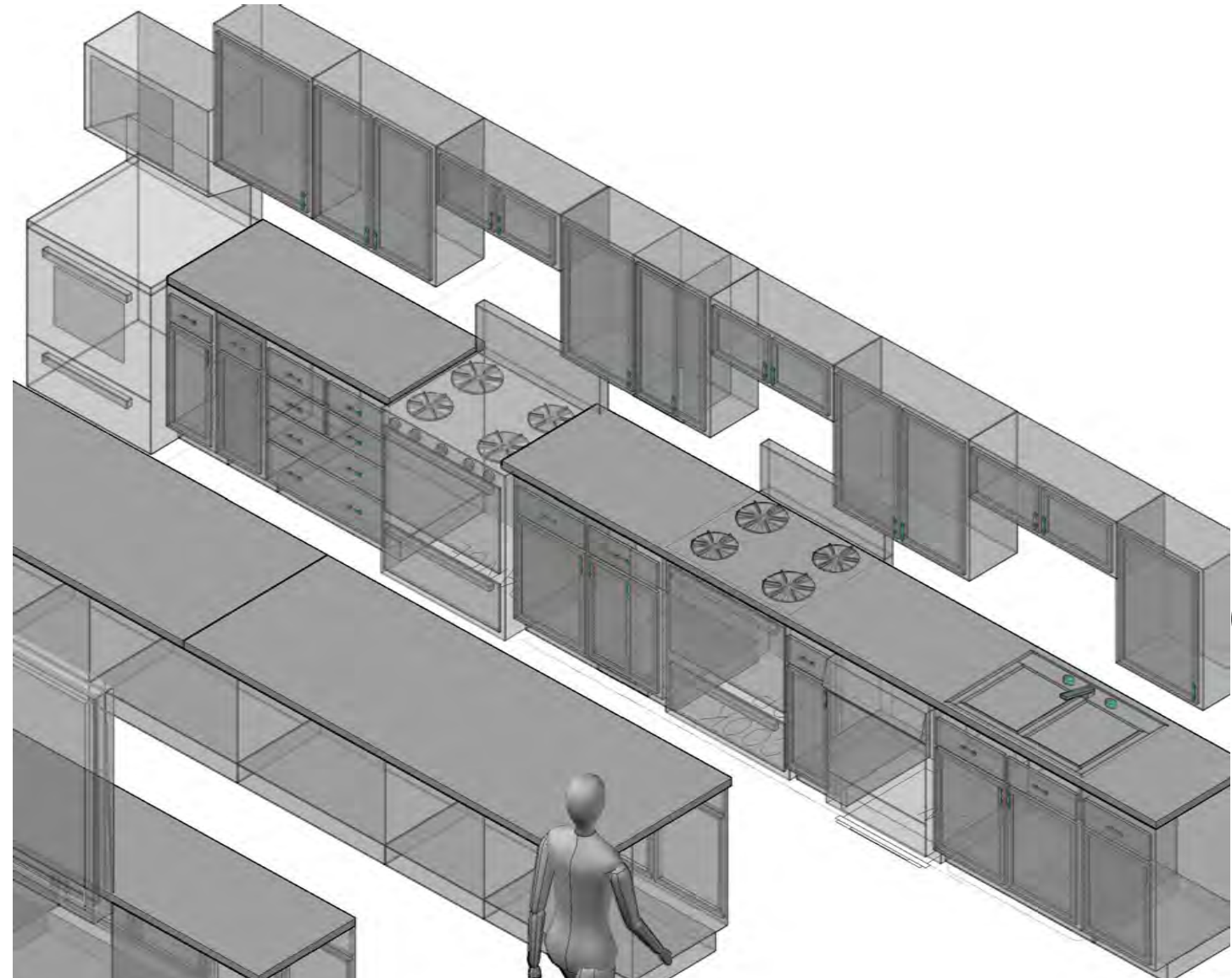
C EAST ELEV. MEN
A104 SCALE: 1/2"=1'



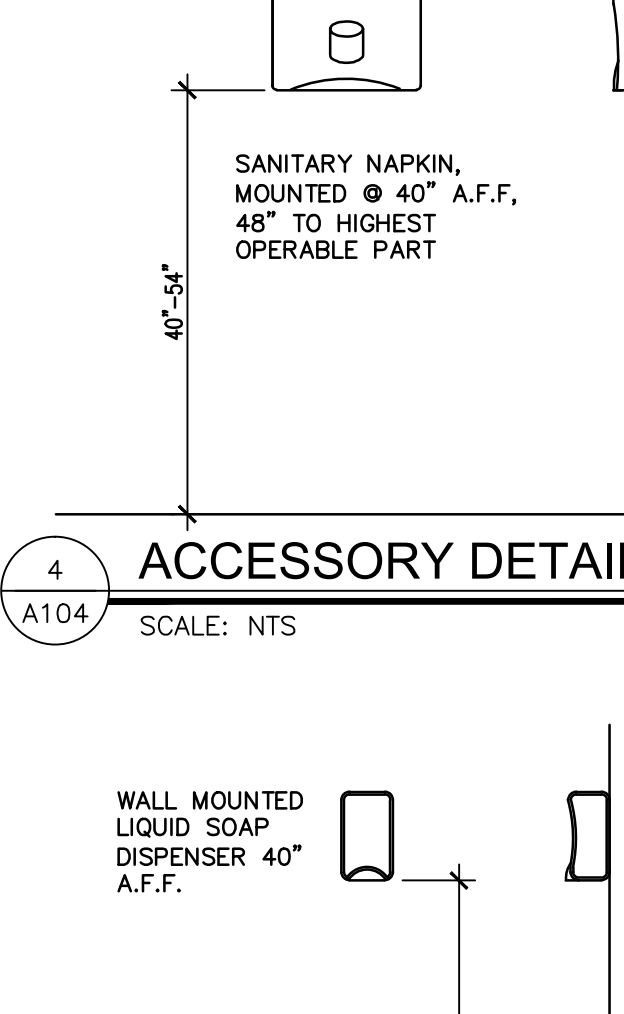
D WEST ELEV. WOMEN
A104 SCALE: 1/2"=1'



10 WARMING KITCHEN ISOMETRIC
A104 SCALE: NTS

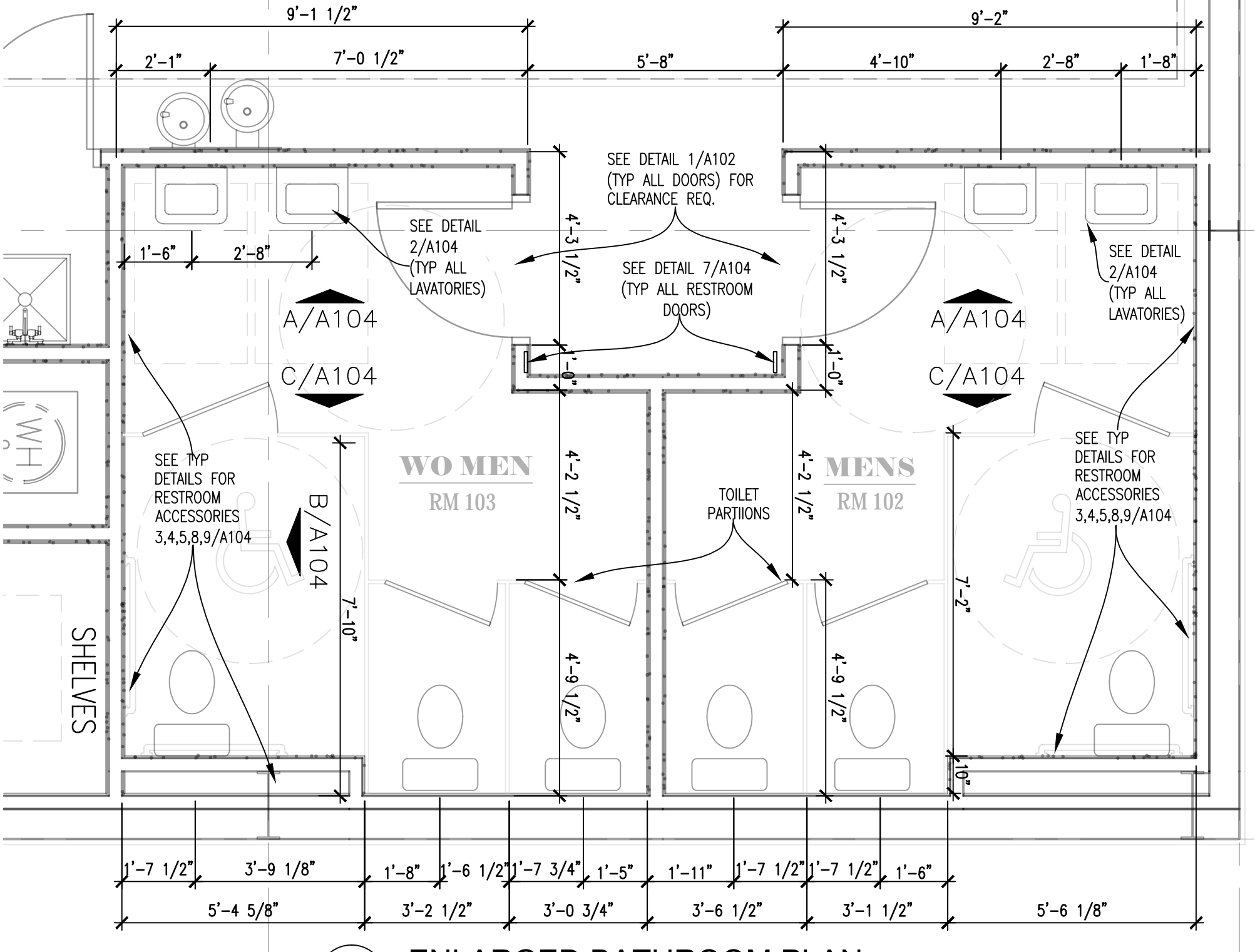


11 WARMING KITCHEN ISOMETRIC
A104 SCALE: NTS

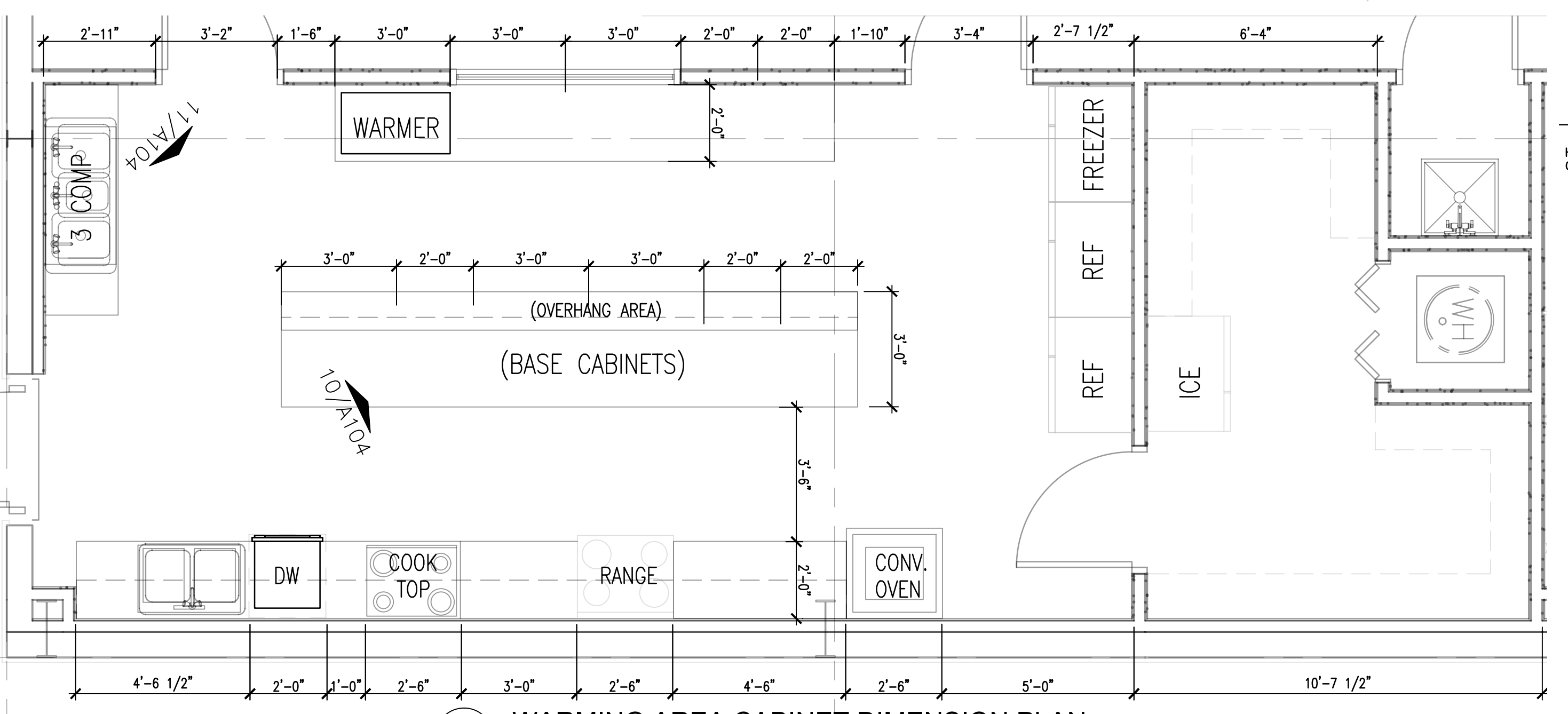


4 ACCESSORY DETAIL
A104 SCALE: NTS

9 W.C. ACC. DETAIL
A104 SCALE: NTS

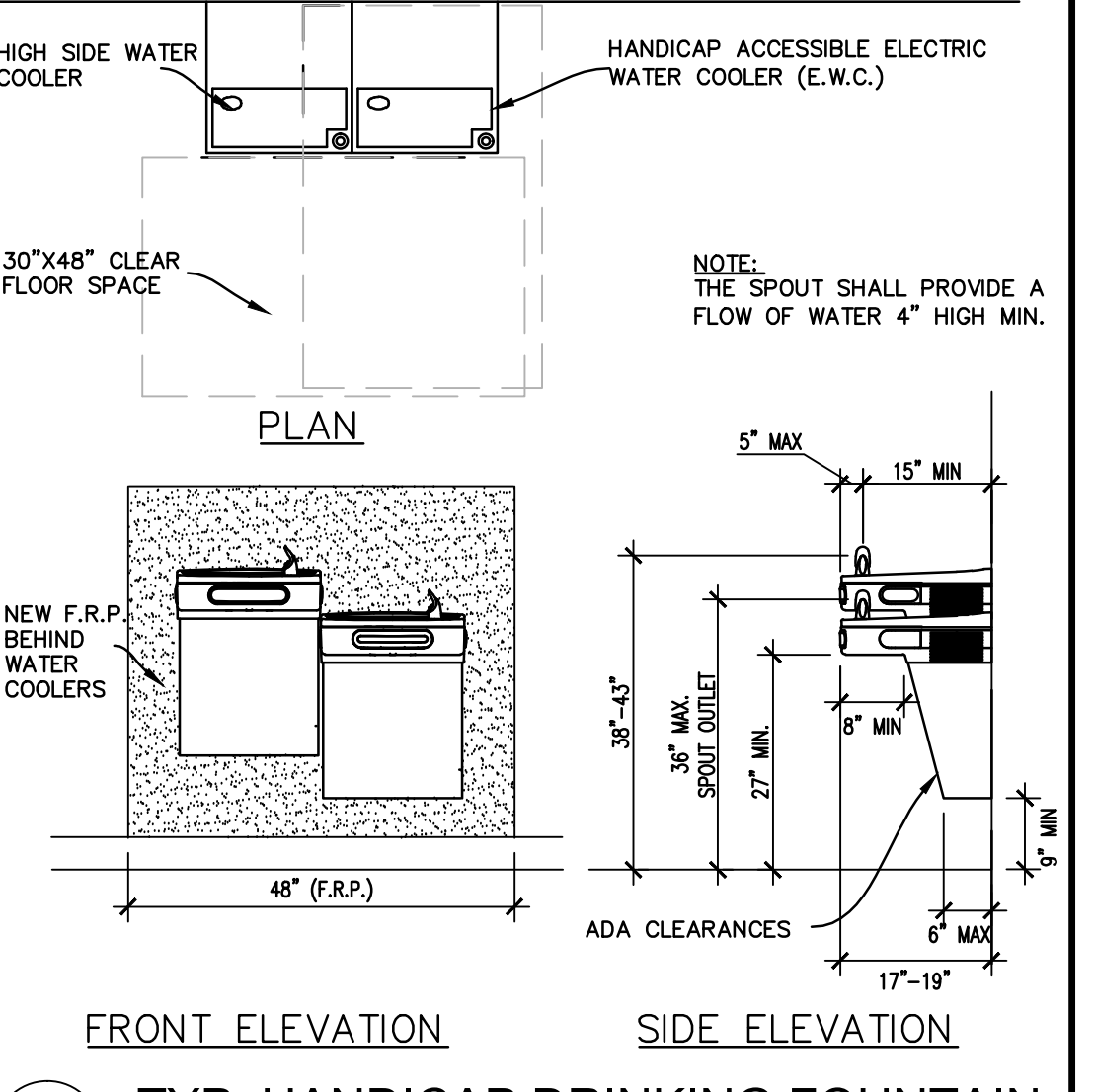


E ENLARGED BATHROOM PLAN
A104 SCALE: 3/8"=1'



C WARMING AREA CABINET DIMENSION PLAN
A104 SCALE: 1/2"=1'

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6 TYP. HANDICAP DRINKING FOUNTAIN
A104 SCALE: NTS

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NEW BUILDING FOR
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MULTIPURPOSE FACILITY
HIGHWAY 21, BOGALUSA, LA 70427

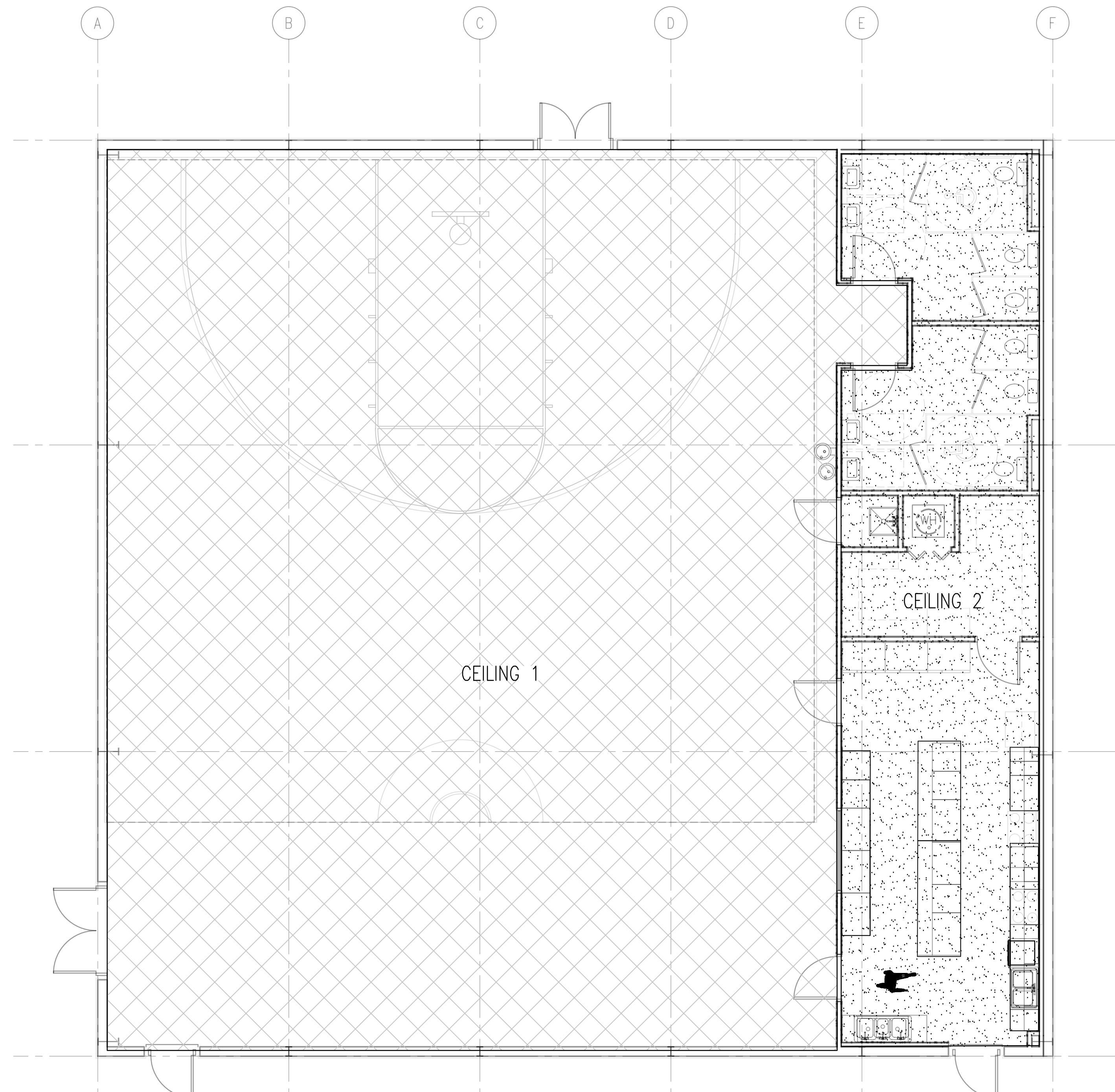
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ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

DETAILS
RESTROOM PLAN

Job No. E-00165
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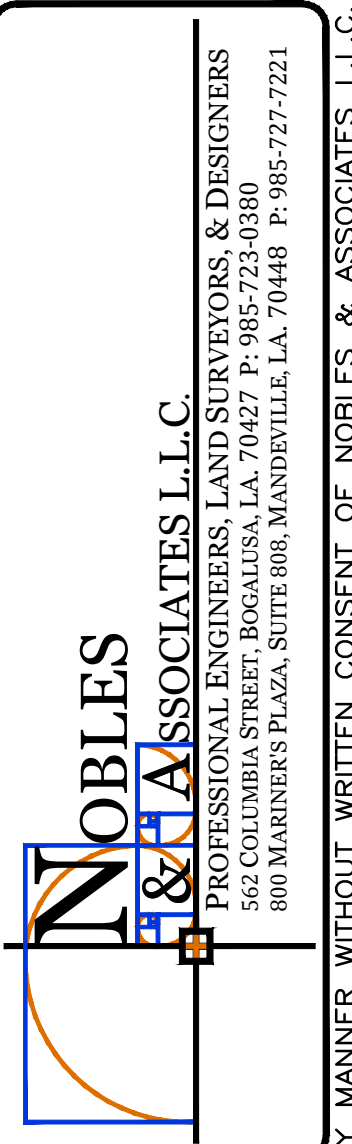
1 REFLECTED CEILING PLAN
A105 SCALE: 3/16"=1'

CEILING SYSTEM NOTES:

1. ALL FASTENERS FOR CEILING SYSTEM TO BE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL VERIFY FINISHED CEILING HEIGHTS PRIOR TO INSTALLATION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BEFORE INSTALLATION OR CONTRACTOR WILL BE RESPONSIBLE FOR ANY CHANGES.
3. ALL ROOMS TO HAVE MIN. 6 IN. NON FACED FIBERGLASS BATT INSULATION INSTALLED ABOVE SUSPENDED TILE SYSTEM.
4. CONTRACTOR TO INSTALL TILE HOLD DOWN CLIPS IF REQUIRED.

-  CEILING 1 - 5/8" DRYWALL WITH LEVEL 3 LIGHT TEXTURE ATTACHED TO WOOD JOIST CEILING
-  CEILING 2 - NO CEILING OPEN TO ROOF DECK (INSTALL METAL BUILDING VINYL INSULATION WITH GYMGUARD OR EQUIVALENT RATED EXPOSED FACING)

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NEW BUILDING FOR
SUPERIOR AVENUE CHURCH
MULTIPURPOSE FACILITY
HIGHWAY 21, BOGALUSA, LA 70427

Rev. No.	Date	Description

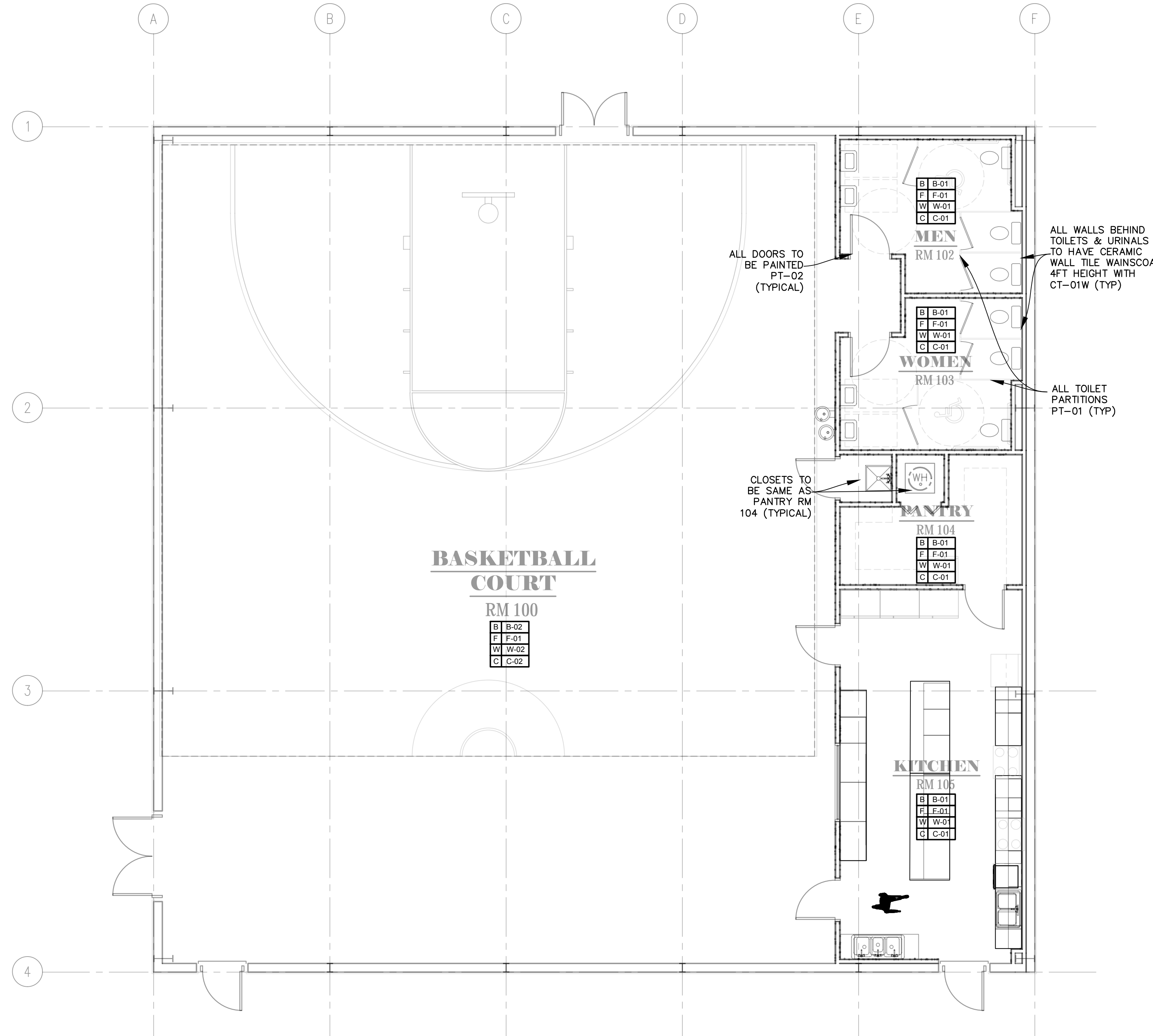
ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

REFLECTED CEILING PLAN
DETAILS

Job No. E-00165

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Date	Rev.
01/25/2022	REV. 0

A105
Sheet 4 of 4



1 FINISH SCHEDULE
A105 SCALE: 3/16"=1'

B	→	BASE FINISH
F	→	FLOOR FINISH
W	→	WALL FINISH
C	→	CEILING FINISH

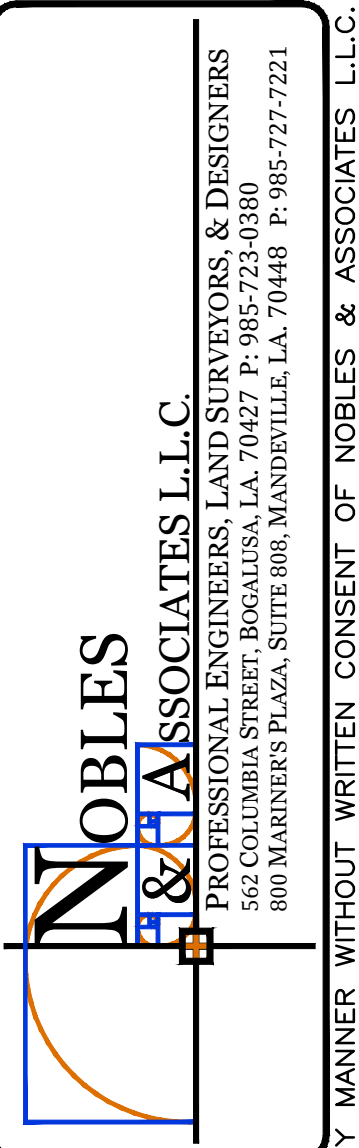
FINISH NOTES

1. ALL NEW CONSTRUCTION SHALL COMPLY WITH FEDERAL, STATE AND LOCAL CODES.
2. NEW FLOORING AND TRANSITIONS SHALL MATCH EXISTING WITH SEAMLESS INTEGRATION.
3. MATCH HEIGHT, COLOR, STYLE AND CHARACTER OF EXISTING.

FINISH SCHEDULE

B-WALL BASE	
B-01	Wall base Rooms 102 thru 105 Mfr/Source: Roppe Product: 4 x 1/8" vinyl wall cove base Finish: Standard Thickness: 3.175 mm Color: White
B-02	Wall base Rooms 100 Mfr/Source: MDF or Wood Product: 1x6 Shaker Style Primed Finish: PF-02
F-FLOORING	
F-01	Concrete @ Rms 100 thru 105 Mfr/Source: Concrete Manufacturer Product: Concrete Color: Slate Gray (Match Sanctuary Foyer Tile) Amerlock 400 Finish: FSV 700 gloss clear epoxy Contact: PPG Installation:
W-WALL SYSTEM	
W-01	Wall systems Rooms 102 thru 105 Wall Type: Metal Stud or Wood Stud - See Sections & Details Interior Wall Finish: 5/8" drywall Level 3 finish light orange peel Wall Paint Color: PF-01
W-02	Wall systems Rooms 100 Wall Type: Metal Stud or Wood Stud - See Sections & Details Interior Wall Finish: 1/2" Painted BC Plywood 8ft height fastened to 2x4 wall framing on Exterior Walls for wall protection Interior Wall Finish: 5/8" drywall Level 3 finish light orange peel on interior wall system between rooms Interior Wall Finish: Above 8ft on all Exterior Walls To Be GymGuard Vinyl Faced Exposed Insulation Wall Paint Color: PF-01 (where applicable)
C-CEILING SYSTEM	
C-01	Ceiling Systems in Rooms 102 thru 105 Mfr/Source: Armstrong Product: CIRRUS A584 Color: White Type: Irregular Fine Fisured Size: 2x2 Contact: Inex, Mandeville, La Ph/Email: 985-809-7069 Note:
C-02	Ceiling Systems in Rooms 100 Mfr/Source: Lamtec Corp Product: GymGuard Color: White Type: Vinyl faced Insulation, Size as per Section/Details Contact: Lamtec Corp Ph/Email: 570-897-8200 Note:
CT - CERAMIC TILE	
CT-01W	Behind Toilet Areas min 4ft x 4ft Mfr/Source: Happy Floors Product: Eternity 12x24 Color: Black Size: 12x24 Thickness: Varies Finish: Porcelain Grout Mfr: Grout Color: Grout Joint: Slip Resistance: >0.42 DCOF Contact: Pro Source Installation:
PT - PAINT	
PF-01	Typical Wall Paint Mfr/Source: PPG Color: Go to Gray PPG1004-1 Finish: Eggshell
PF-02	Typical Trim Paint Mfr/Source: PPG Color: Commercial White PPG1025-1 Finish: Semi-gloss
TP - TOILET PARTITIONS	
TP-01	Toilet Partitions Rooms 102 and 103 Mfr/Source: Global or Equivalent Color: 9200 Gray Finish: HDPE/Solid Polymer Type: Floor Mounted/Overhead Braced/Free Standing Contact: All Partitions 866-255-8645

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NEW BUILDING FOR
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MULTIPURPOSE FACILITY
HIGHWAY 21, BOGALUSA, LA 70427

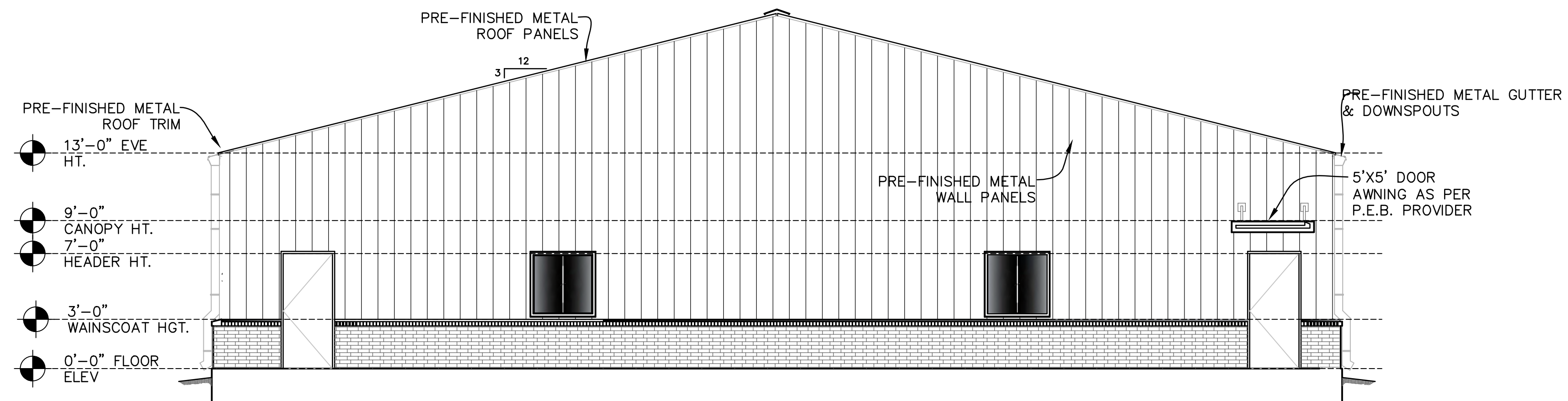
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ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

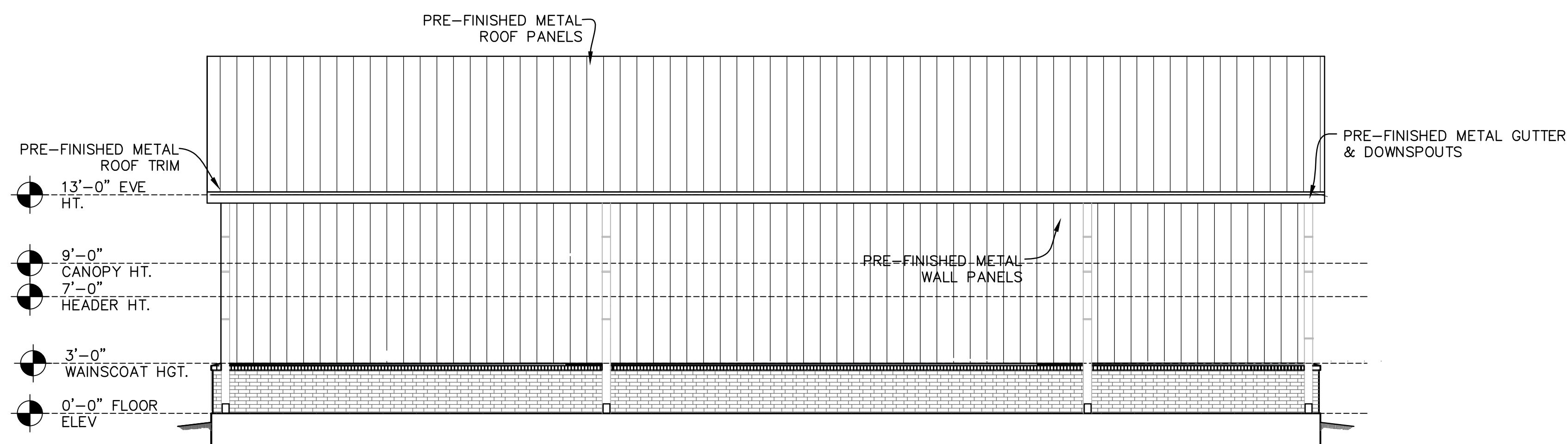
FINISH SCHEDULE	
Job No.	E-00165
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A106
Sheet 4 of 4

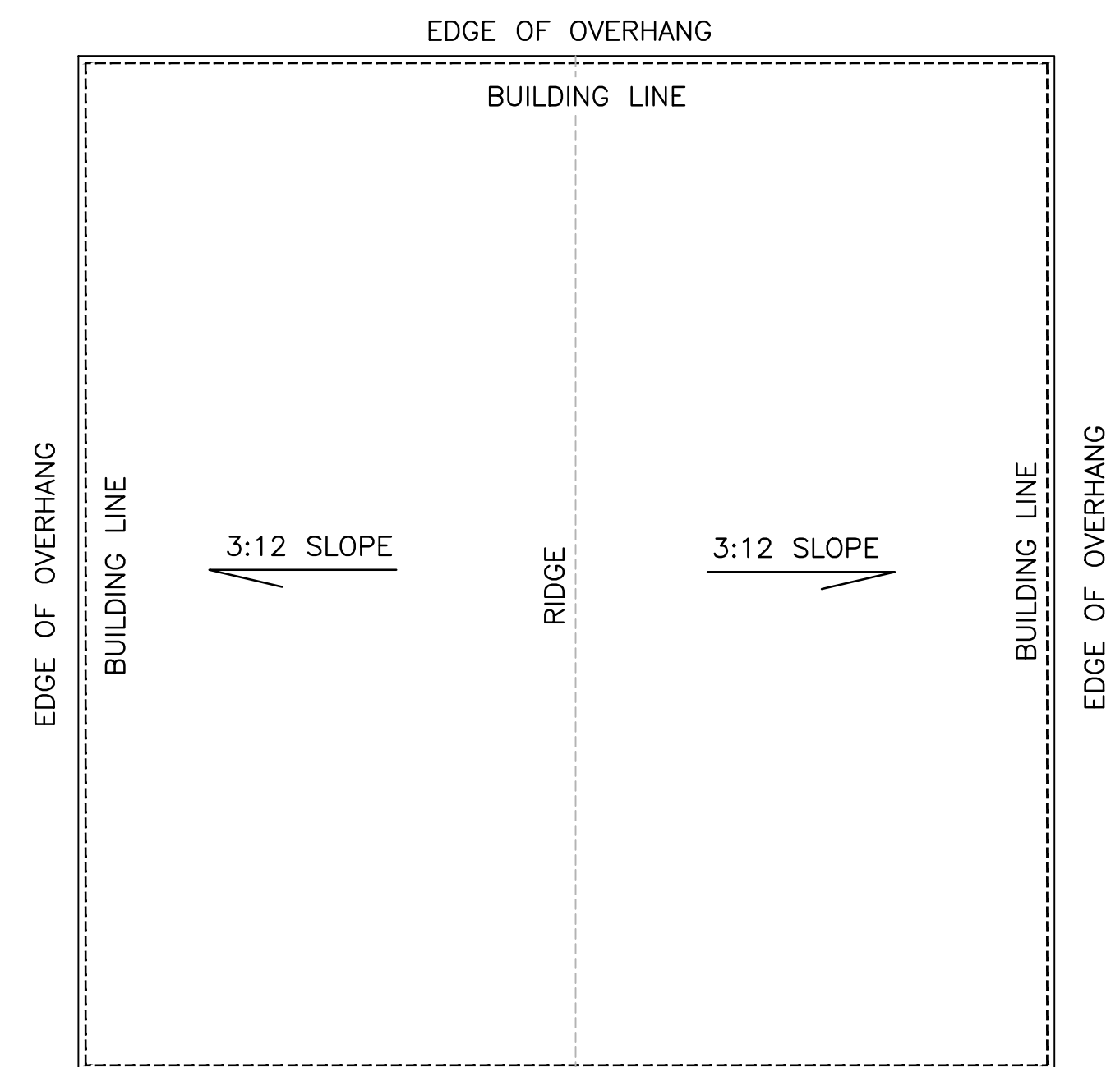
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1 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



2 REAR ELEVATION
SCALE: 3/16" = 1'-0"



3 ROOF PLAN
SCALE: 3/32" = 1'-0"

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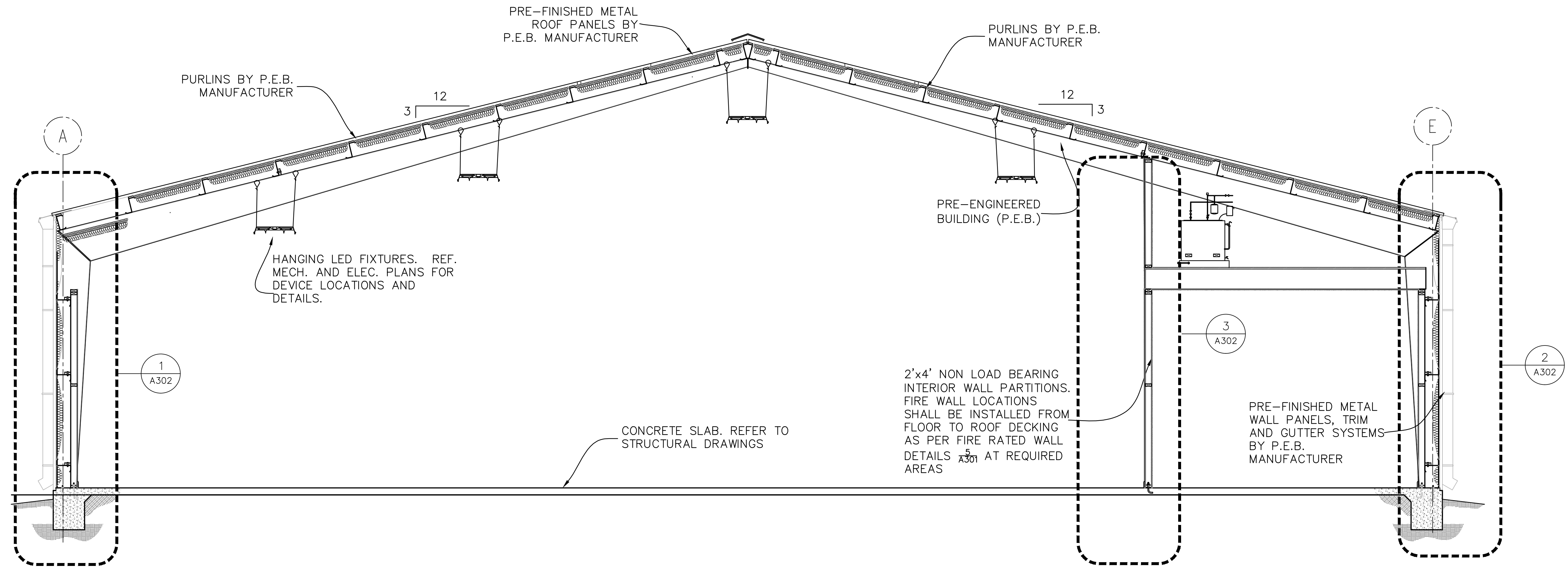
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ELEVATIONS

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A201
 Sheet 1 of 1

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

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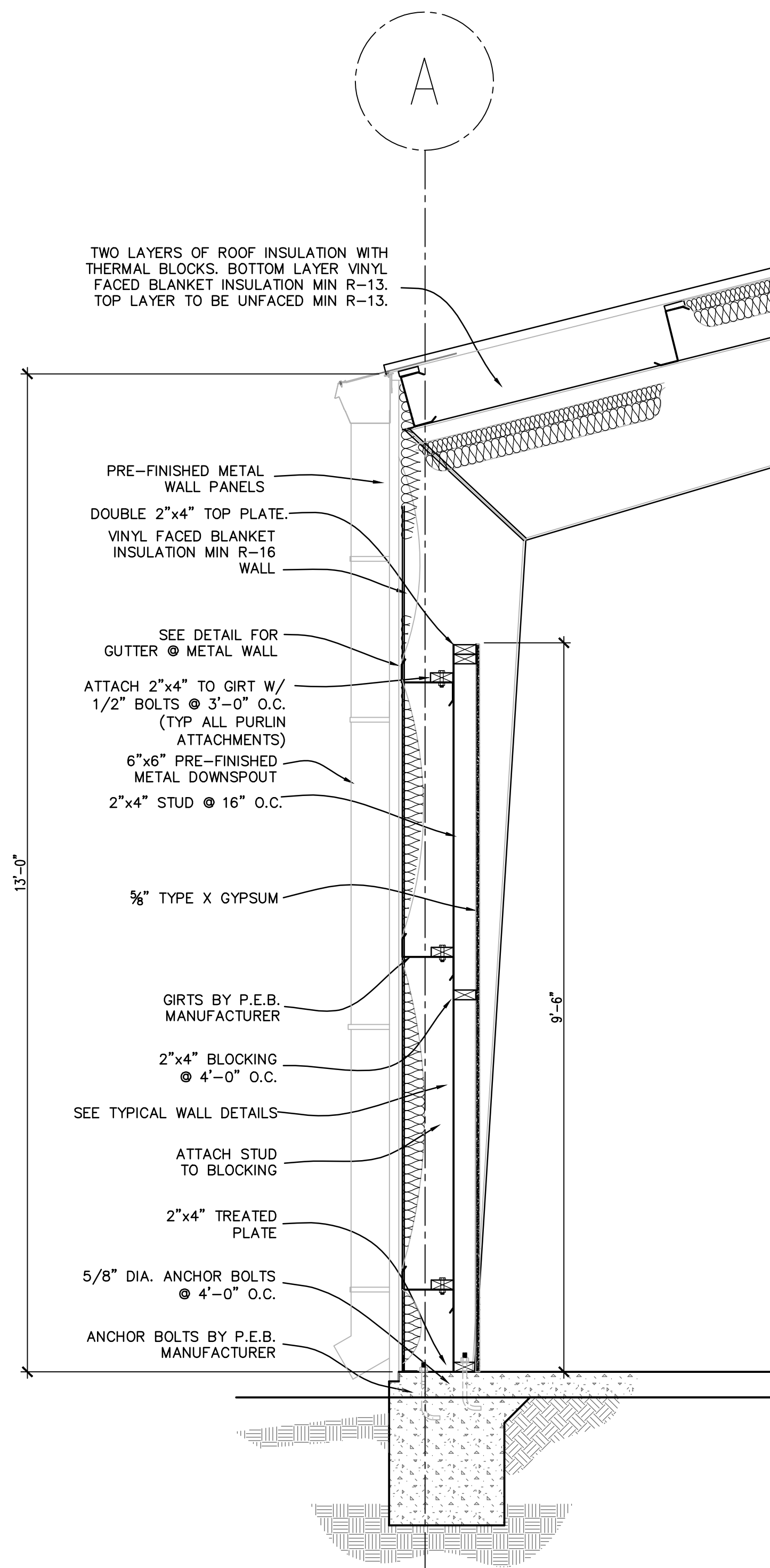
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 NUMBER: 31767

BUILDING SECTIONS

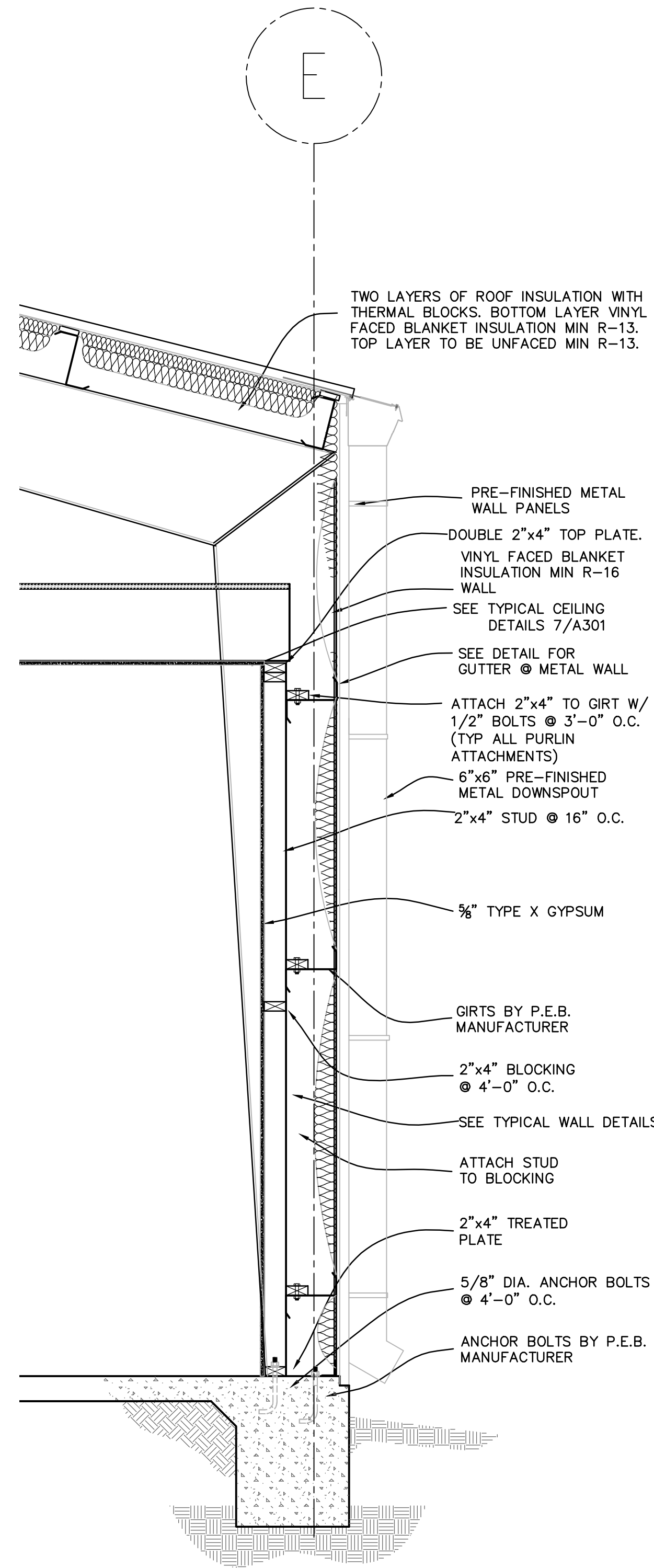
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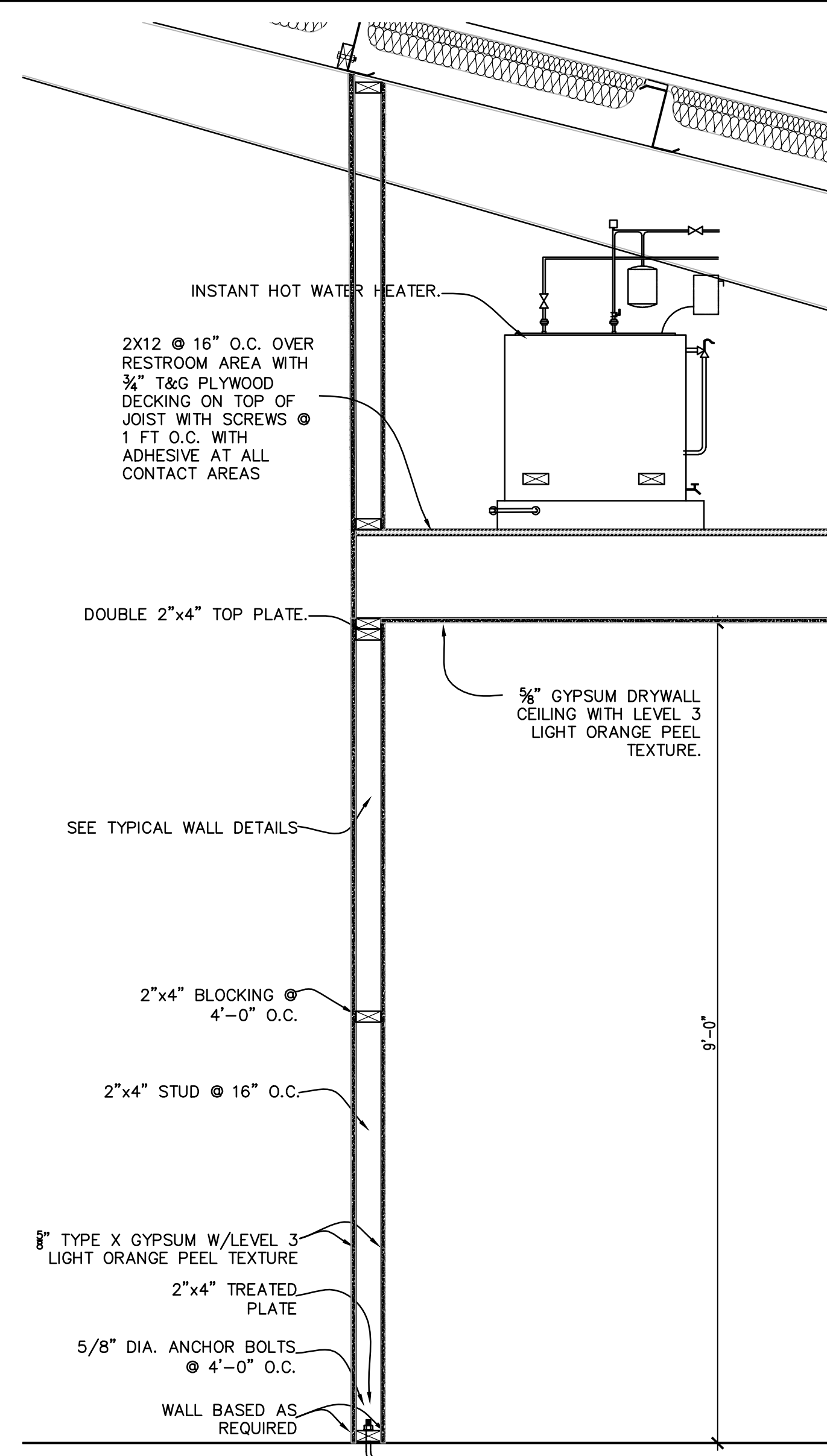
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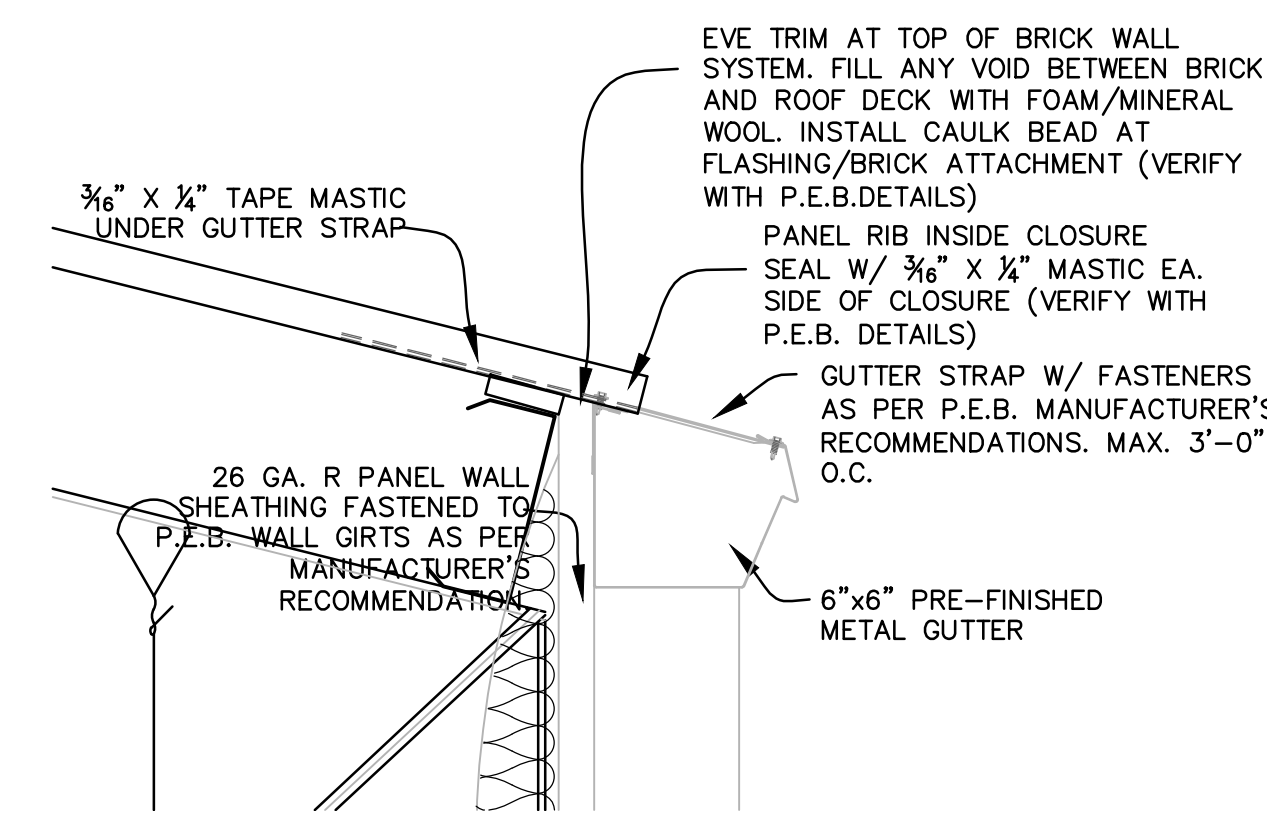
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A302 WALL SECTION @ EXTERIOR
SCALE: 3/4" = 1'-0"



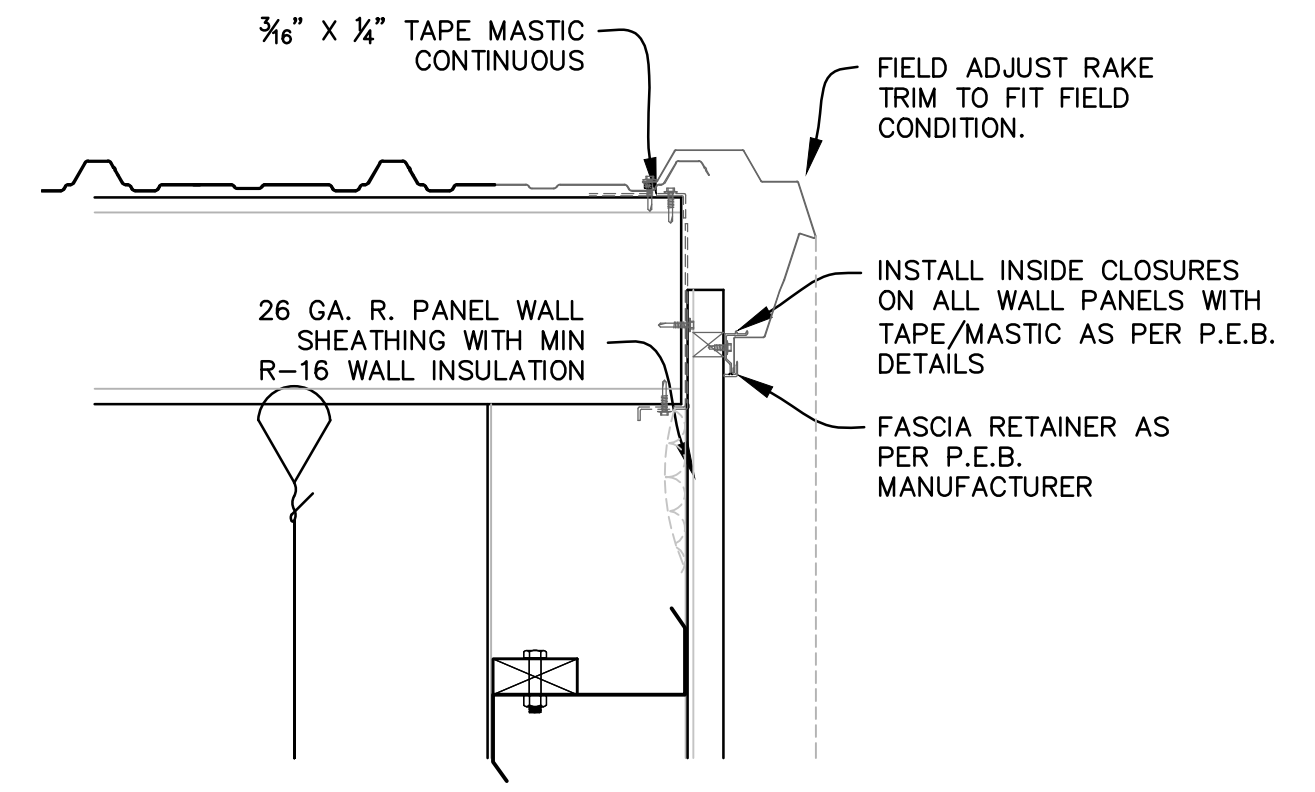
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SCALE: 3/4" = 1'-0"



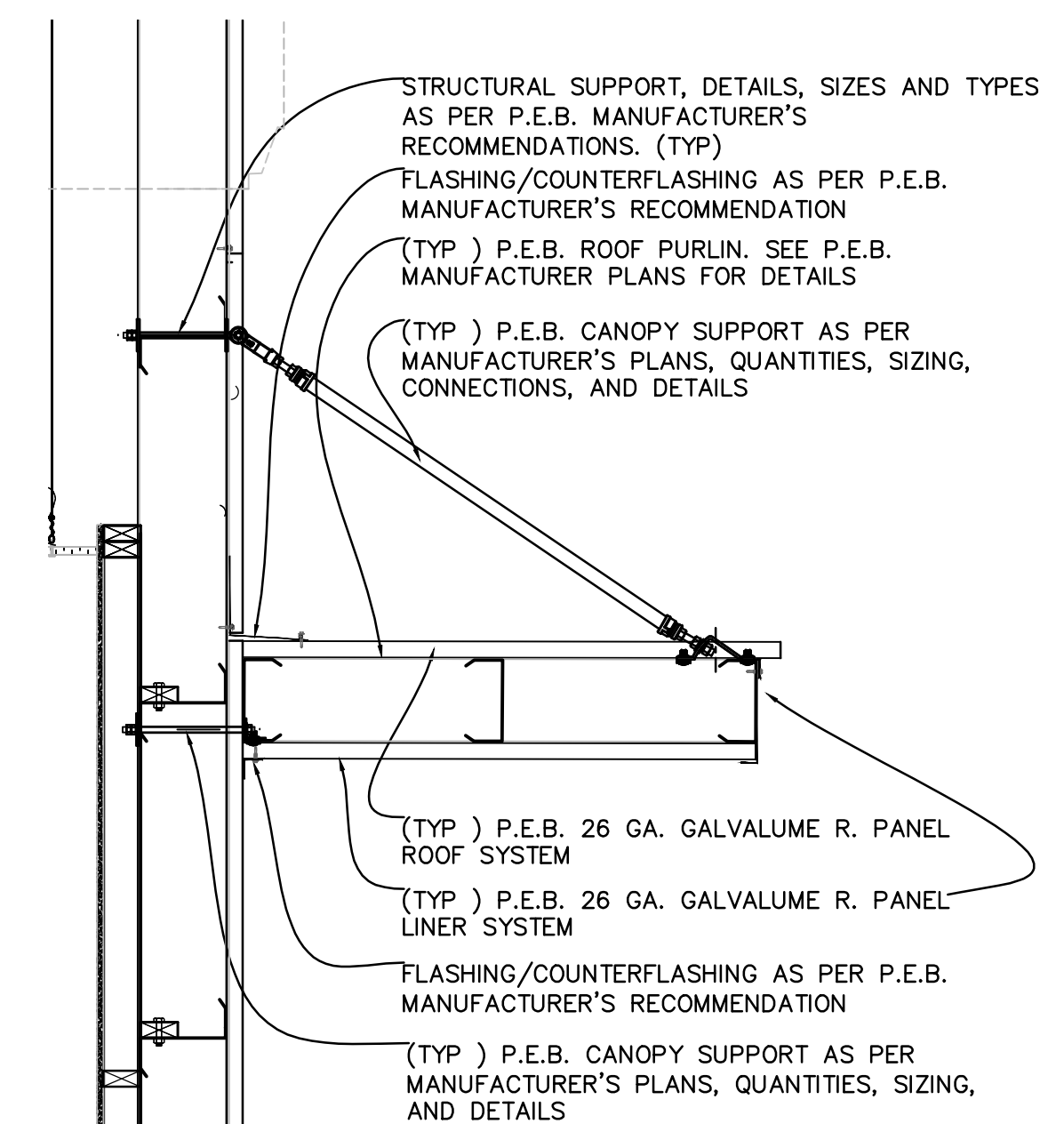
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A302 WALL SECTION @ SHOP RESTROOM
SCALE: 3/4" = 1'-0"



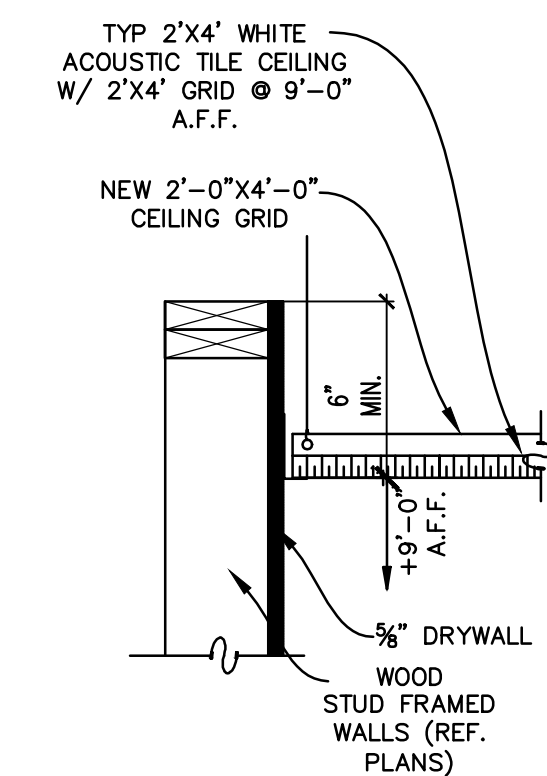
4
A302 EVE GUTTER DETAIL @ METAL WALL PANELS
SCALE: 1 1/2" = 1'-0"



5
A302 RAKE TRIM DETAIL
SCALE: 1 1/2" = 1'-0"



6
A302 TYPICAL DOOR AWNING DETAIL
SCALE: 3/4" = 1'-0"



7
A302 CEILING GRID @ EXT. PENETRATING WALLS
SCALE: NTS

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Rev. No.	Date	Description

ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

BUILDING SECTIONS

Job No. E-00165

Dwn. Chk.
SWL GBN
Date Rev.
01/25/2022 REV. 0

A302
Sheet 1 of 1

GENERAL NAILING SCHEDULE

JOINT DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	NAIL SPACING
ROOF FRAMING			
BLOCKING TO RAFTER (TOE NAILED)	2-8d	2-10d	EACH END
RIM BOARD TO RAFTER (END NAILED)	2-16d	3-16d	EACH END
WALL FRAMING			
TOP PLATES AT INTERSECTIONS (FACE-NAILED)	4-16d	5-16d	AT JOINTS
STUD TO STUD (FACE-NAILED)	2-16d	2-16d	24" O.C.
HEADER TO HEADER (FACE-NAILED)	16d	16d	16" O.C. ALONG EDGES
FLOOR FRAMING			
JOIST TO SILL, TOP PLATE OR GIRDER (TOE-NAILED)	4-8d	4-10d	EACH END
BLOCKING TO JOIST (TOE-NAILED)	2-8d	2-10d	EACH END
BLOCKING TO SILL OR TOP PLATE (TOE-NAILED)	3-16d	4-16d	EACH BLOCK
LEDGER STRIP TO BEAM OR GIRDER (FACE-NAILED)	3-16d	4-16d	EACH END
JOIST ON LEDGER TO BEAM (TOE-NAILED)	3-8d	3-10d	EACH END
BAND JOIST TO JOIST (END-NAILED)	3-16d	4-16d	EACH BLOCK
BAND JOIST TO SILL OR TOP PLATE (TOE-NAILED)	2-16d	3-16d	EACH BLOCK
ROOF SHEATHING - WOOD STRUCTURAL PANELS (WSP)			
RAFTERS OR TRUSSES SPACED UP TO 16" O.C.	8d	10d	6" EDGE / 6" FIELD
RAFTERS OR TRUSSES SPACED OVER 16" O.C.	8d	10d	4" EDGE / 4" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/O GABLE OVERHANG	8d	10d	6" EDGE / 6" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/ STRUCTURAL OUTLOOKERS	8d	10d	4" EDGE / 4" FIELD
GABLE ENDWALL RAKE TRUSS W/ LOOKOUT BLOCKS	8d	10d	4" EDGE / 4" FIELD
CEILING SHEATHING			
GYPSUM WALLBOARD	5d COOLERS	-	7" EDGE / 10" FIELD
WALL SHEATHING			
(WSP) - STUDS SPACED UP TO 24" O.C.	8d	10d	6" EDGE / 12" FIELD
1/2" AND 25/32" FIBERBOARD PANELS	8d	-	3" EDGE / 6" FIELD
1/2" GYPSUM WALLBOARD	5d COOLERS	-	7" EDGE / 10" FIELD
FLOOR SHEATHING - (WSP)			
1" OR LESS	8d	10d	6" EDGE / 12" FIELD
GREATER THAN 1"	10d	16d	6" EDGE / 6" FIELD

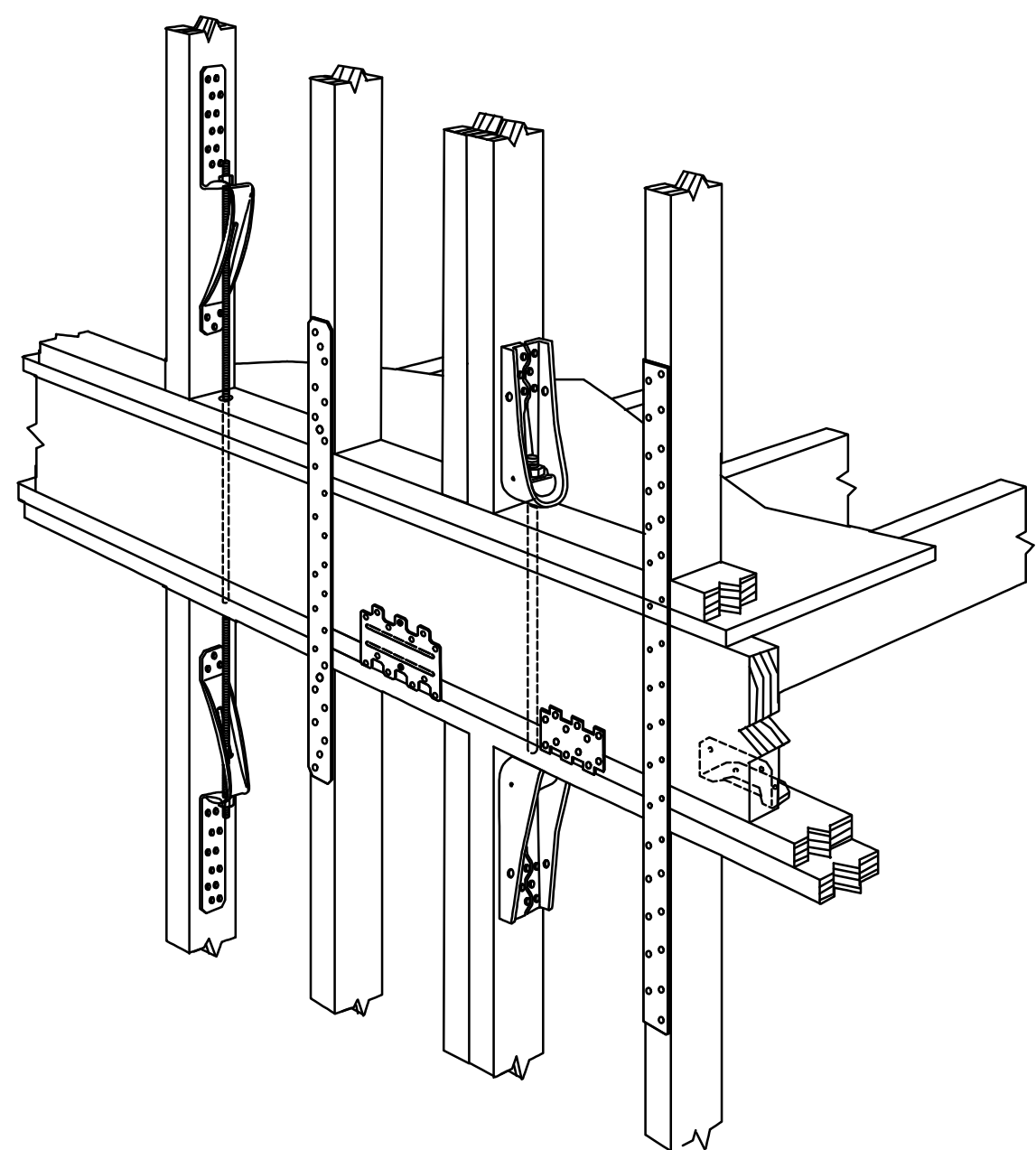
* CORROSION RESISTANT 11 GAGE ROOFING NAILS AND 16 GAGE STAPLES ARE PERMITTED. CHECK IBC FOR ADDITIONAL REQUIREMENTS.
 ** UNLESS OTHERWISE STATED, SIZES GIVEN FOR NAILS ARE COMMON WIRE SIZES. BOX AND PNEUMATIC NAILS OF EQUIVALENT DIAMETER AND EQUAL OR GREATER LENGTH TO THE SPECIFIED COMMON NAILS MAY BE SUBSTITUTED UNLESS OTHERWISE PROHIBITED.

EXTERIOR LOAD BEARING HEADER SPAN WIND REQUIREMENT (APPLIES TO INTERIOR SHEARWALL HEADER SPANS ALSO)

HEADER SPAN	MEMBER	FASTENER REQUIREMENTS	LOCATION & WIND RATING	JACK STUDS 16" O.C.
2'	(2) 2x4	16d COMMON MINIMUM 6 EACH END	EXTERIOR LOAD BEARING 130 MPH	1
4'	(2) 2x6	16d COMMON MINIMUM 6 EACH END	EXTERIOR LOAD BEARING 130 MPH	2
6'	(3) 2x12	16d COMMON MINIMUM 12 EACH END	EXTERIOR LOAD BEARING 130 MPH	3
8'	3.125x8.25	16d COMMON MINIMUM 14 EACH END	EXTERIOR LOAD BEARING 130 MPH	3
10'	3.125x11	16d COMMON MINIMUM 14 EACH END	EXTERIOR LOAD BEARING 130 MPH	4

CEILING JOISTS - 20 PSF LIVE LOAD				
10 PSF DEAD LOAD, 240 DEFLECTION				
Size	Spacing	Visually Graded	Max. Span	
		No. 1	No. 2	No. 3
2x4	16"	8'-11"	8'-0"	6'-2"
	24"	7'-8"	6'-7"	5'-1"
2x6	16"	14'-0"	12'-0"	9'-2"
	24"	11'-5"	9'-10"	7'-5"
2x8	16"	17'-9"	15'-3"	11'-6"
	24"	14'-6"	12'-6"	9'-5"
2x10	16"	20'-9"	18'-1"	13'-11"
	24"	16'-11"	14'-9"	11'-5"

RAFTERS - 30 PSF LIVE LOAD				
10 PSF DEAD LOAD, 240 DEFLECTION				
Size	Spacing	Visually Graded	Max. Span	
		No. 1	No. 2	No. 3
2x6	16"	12'-3"	11'-2"	8'-6"
	24"	10'-7"	9'-2"	6'-11"
2x8	16"	16'-2"	14'-2"	10'-8"
	24"	13'-5"	11'-7"	8'-9"
2x10	16"	19'-3"	16'-10"	13'-0"
	24"	15'-9"	13'-9"	10'-7"
2x12	16"	22'-10"	19'-10"	15'-4"
	24"	18'-8"	16'-2"	12'-5"



1 A401 TYPICAL FRAMING STRAPPING SCALE: N.T.S.

GENERAL NOTES:

- ALL INSTALLATIONS SHALL MEET ADAAG HANDICAP REQUIREMENTS.
- HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR COVERED.
- FAUCETS SHALL BE HANDLE ACTIVATED.
- INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF SECTION 719, INTERNATIONAL BUILDING CODE, 2015.
- PROVIDE 5' X 5' LANDINGS OUTSIDE OF EXTERIOR DOORS LEVEL WITH THE FLOOR THRESHOLDS SHALL BE NOT MORE THAN 1/2" IN HEIGHT AND SHALL BE BEVELED IF MORE THAN 1/4". ALL GROUND AND FLOOR SURFACES SHALL BE NON-SLIP.
- CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND BUILDING LOCATION PRIOR TO CONSTRUCTION.
- MATERIALS SHALL BE NEW AND U.L. LISTED.
- NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
- CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
- EXTERIOR CAULKING SHALL BE THIKAL CAULK OR EQUIVALENT.
- PAINT GRADE TO BE SHERWIN WILLIAMS OR EQUIVALENT, ALL WORK TO RECEIVE MIN. OF 2 COATS. COLOR SELECTION BY OWNER.
- ALL CORNERS SHALL BE PROPERLY BRACED FOR WIND LOADS.
- LOOKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE USE OF A KEY (INTERIOR SIDE). SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN THE DIRECTION OF EGRESS.
- FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH NFPA 10 APPENDIX "E".
- BACKFILL AROUND FOUNDATION SHALL BE INSTALLED WITH A SLOPE OF 6" FOR THE FIRST 10 FEET AROUND PERIMETER OF FOUNDATION.

INSULATION:

- CONCEALED INSULATION IN BUILDINGS OF ANY TYPE CONSTRUCTION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450.
- INSULATION AND COVERING ON PIPES AND TUBING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 OR A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450.
- ALL WALL INSULATION SHALL BE AT LEAST R-13 AND FACINGS SHALL COMPLY WITH IBC 719.2.
- ALL CEILING AND ROOF INSULATION SHALL BE AT LEAST R-30 AND FACINGS SHALL COMPLY WITH IBC 719.2.

CONCEALED SPACES:

- FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH IBC 717.
- FIREBLOCKING SHALL CONSIST OF EITHER 2 INCH NOMINAL LUMBER, TWO LAYERS OF INCH LUMBER WITH BROKEN LAP JOINTS, GYPSUM BOARD, CEMENT FIBER BOARD, BATTIS OR BLANKETS OF MINERAL OR GLASS MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY FASTENED IN PLACE.
- FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS VERTICALLY AT CEILING AND FLOOR LEVELS, AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 1 FT.
- FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES; AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES WHICH OCCURS AT SOFFITS, DROP CEILINGS, AND SIMILAR LOCATIONS.
- FIREBLOCKING SHALL BE INSTALLED AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, AND FIREPLACES AT CEILING AND FLOOR LEVELS, WITH AN APPROVED MATERIAL.
- DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONSTRUCTION AS PER IBC 717.3, 4, & 5. DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 1/2" GYPSUM BOARD, 0.375 PARTICLE BOARD OR OTHER APPROVED MATERIALS.
- DRAFTSTOPPING SHALL BE INSTALLED IN ATTIC SPACES TO PREVENT THE HORIZONTAL AREA FROM BEING GREATER THAN 3000 SQ. FT.

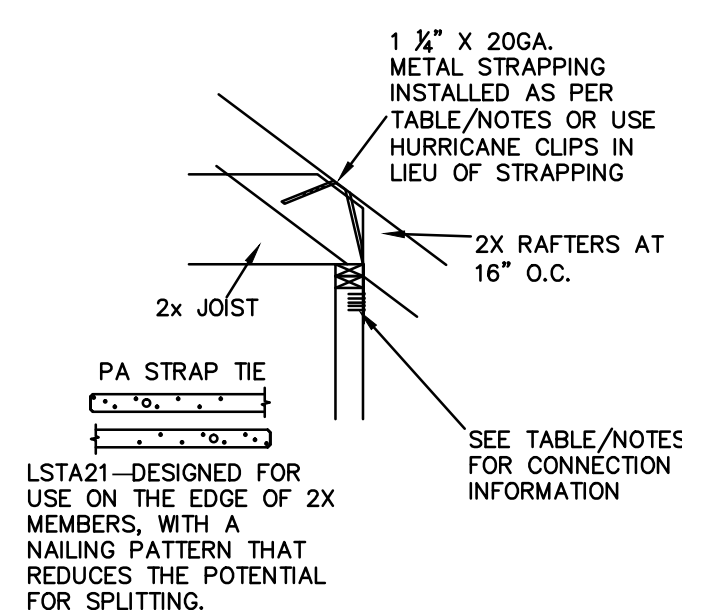
INTERIOR FINISHES:

- INTERIOR WALL AND CEILING FINISHES FOR APARTMENT NON-SPRINKLERED AS PER TABLE 803.5 IBC 2015 SHALL HAVE VERTICAL EXITS AND PASSAGEWAYS AND EXIT ACCESS CORRIDORS OF CLASS A: FLAME SPREAD 0-25 AND SMOKE DEVELOPED 0-450.
- INTERIOR WALL AND CEILING FINISHES FOR APARTMENT NON-SPRINKLERED AS PER TABLE 803.5 IBC 2015 SHALL HAVE ROOMS AND ENCLOSED SPACES OF CLASS C: FLAME SPREAD 76-200; AND SMOKE DEVELOPED 0-450.
- INTERIOR FLOOR FINISHES SHALL COMPLY WITH SECTION 804 IBC 2015.
- INTERIOR DECORATIONS AND TRIMS SHALL COMPLY WITH SECTION 805 IBC 2015.

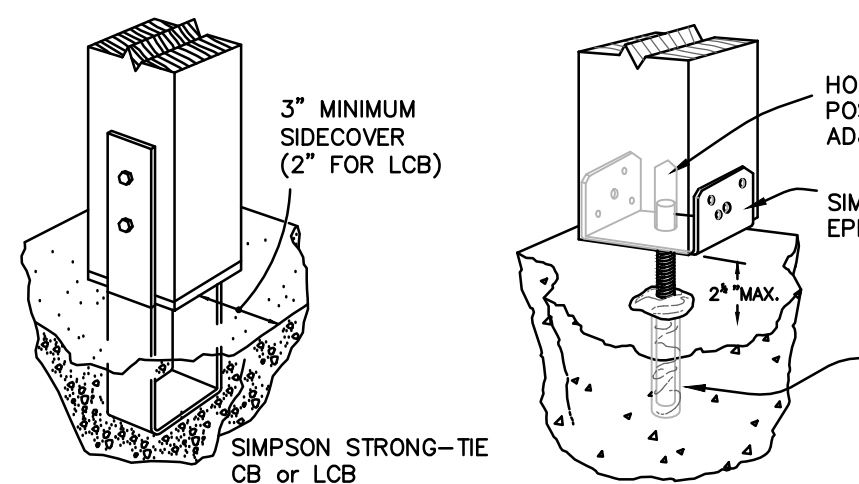
FRAMING:

- JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE ENDS OF THE JOISTS ARE NAILED TO A HEADER, BAND, OR RIM JOIST BY OTHER MEANS.
- SOLID BLOCKING SHALL NOT BE LESS THAN 2 INCHES IN THICKNESS AND THE FULL DEPTH OF THE JOIST.
- NOTCHES ON THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH.
- HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST.
- THE DIAMETER OF ANY BORED HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN AND SHALL NOT BE LONGER THAN ONE THIRD OF THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBERS 4 INCHES OR GREATER NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT THE ENDS OF THE MEMBERS.
- JOIST FRAMING FROM OPPOSITE SIDES OF A BEAM, GIRDER OR PARTITION SHALL BE LAPPED AT LEAST 3 INCHES OR THE OPPOSING JOISTS SHALL BE TIED TOGETHER IN AN APPROVED MANNER.
- TRIMMER AND HEADER JOISTS SHALL BE DOUBLED OR OF LUMBER OF EQUIVALENT CROSS SECTION WHERE THE SPAN OF THE HEADER EXCEED 4 FEET.
- THE ENDS OF HEADER JOISTS MORE THAN 6 FEET SHALL BE SUPPORTED BY FRAMING BEARING ON A BEAM, GIRDER OR PARTITION, OR WALL.
- EXCEPT WHERE SUPPORTED ON A 1-INCH BY 4 INCH RIBBON STRIP AND NAILED TO THE ADJOINING STUD, THE ENDS OF EACH JOIST SHALL NOT HAVE LESS THAN 1 1/2" OF BEARING ON WOOD OR METAL, OR LESS THAN 3 INCHES ON MASONRY.
- THE JOIST SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL. A MINIMUM OF THREE STUDS SHALL BE INSTALLED AT ALL CORNERS OF EXTERIOR WALLS.
- END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48 INCHES AND SHALL BE NAILED WITH NOT LESS THAN 8 16D FACE NAILS ON EACH SIDE OF THE JOINT.
- WHERE PLUMBING, HEATING, OR OTHER PIPES ARE PLACED IN OR PARTLY IN A PARTITION, OR WHERE CUTTING OF SOLES OR PLATES IS REQUIRED, A METAL TIE NOT LESS THAN 0.058 INCH (16 GA. GALVANIZED) AND 1 1/2" INCHES WIDE SHALL BE FASTENED TO EACH PLATE AND TO EACH SIDE OF OPENING WITH NOT LESS THAN SIX 16D NAILS.
- IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR LOUVER BEARING WALL, NECESSITATING CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE BY MORE THAN 50 PERCENT OF ITS WIDTH, A GALVANIZED METAL TIE NOT LESS THAN 0.054 INCH THICK AND 1 1/2 INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT 10D NAILS HAVING A MINIMUM LENGTH OF 1 1/2 INCHES AT EACH SIDE OR EQUIVALENT. THE TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.
- IN NON BEARING WALLS CUTTING OR NOTCHING OF THE STUD SHALL NOT BE GREATER THAN 40 PERCENT OF THE WIDTH.
- A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 40 PERCENT OF THE WIDTH OF STUD ARE PERMITTED IN NONBEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED THAT NOT MORE THAN TWO SUCCESSIVE STUDS ARE BORED.
- IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 1/8" TO THE EDGE OF THE STUD.
- 1-JOIST TYPE STUDY FLOORING SHALL HAVE SOLID BLOCKING INSTALLED ON EACH SIDE OF WEB AT ALL BEARING LOCATIONS. BLOCKING SHALL ALSO BE INSTALLED PERPENDICULAR TO JOIST AT ENDS AND QUARTER SPAN FOR LATERAL BRACING.
- ALL WOOD FRAMING, FABRICATION, AND ERECTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NFPA, THE PLYWOOD DESIGN SPECIFICATION, AND THE APA AND MEET THE REQUIREMENTS BELOW, UNLESS NOTED OTHERWISE. ALL WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE OF THE ANS WOOD FRAME CONSTRUCTION MANUAL FOR 130 MPH WIND LOADS, LATEST EDITION. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE ACQ TREATED.
- ALL FRAMING LUMBER SHALL BE SOUTHERN YELLOW PINE, S4S NO. 2 MAXIMUM MOISTURE CONTENT OF 15%. STUD WALLS AND PARTITIONS SHALL BE SIZED AS FOLLOWS:
 -FIRST FLOOR PARTITIONS: 2X4
 -SECOND FLOOR PARTITIONS: 2X4
 -MET STUDS: 2X6
 -EXTERIOR WALLS ON MULTIPLE STORY (UP TO 2): 2X6
- ALL STUDS TO BE BLOCKED AT MID-HEIGHT. RAMSET BOTTOM PLATE OF STUD WALLS TO CONCRETE WITH 1/2" RAMSETS @ 16" O.C. ON SLAB CONSTRUCTION ON INTERIOR WALLS.
- FLOOR, ATTIC, AND ROOF FRAMING SHALL BE OF SIZES AS INDICATED ON FRAMING PLANS. PROVIDE WOOD CROSS BRIDGING WHERE INDICATED ON DRAWINGS OR WHEN JOIST SPANS EXCEED EIGHT FEET. LOCATE (3) 2X12 BEAMS BELOW BEARING WALLS OF WALLS ABOVE, AND/OR AS INDICATED ON FRAMING PLANS. BEAM SHALL BEAR ON ENTIRE WIDTH OF BEARING WALL TOP PLATE. LOCATE (3) STUDS AT BEAM BEARING POINTS BELOW DOUBLE TOP PLATE. SEE CUTTING AND NOTCHING BEAM/JOIST NOTES.
- PROVIDE WOOD COLLAR BRACES AT EACH RAFTER 24" BELOW CROWN OF ROOF WITH (5) 8D COMMON NAILS @ EACH END OF TIE, UNLESS MORE OTHERWISE NOTED. NOT NECESSARY FOR PREFABRICATED WOOD TRUSSES.
- PLYWOOD SUB FLOORING - UNDERLAYMENT 5/8" X 4" THICK TONGUE AND GROOVE. GLUED AND NAILED TO FLOOR JOISTS WITH 8D COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS. OSB PLYWOOD ROOF SHEATHING - APA RATED 24 / 0, MINIMUM 5/8" THICK. PROVIDE PLYCLIPS AT UNSUPPORTED EDGES BETWEEN ROOF JOISTS.
- COORDINATE FRAMING WITH HVAC DUCTS, ELECTRICAL AND PLUMBING REQUIREMENTS. JOIST HANGERS SHALL BE 16 GA. GALV. TYPE "U" AS MANUFACTURED BY SIMPSON STRONG TIE CO. INSTALL JOIST HANGERS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. USE JOIST HANGERS FOR BEAMS AND JOISTS WHICH FRAME TO BEAMS AT THE SAME ELEVATION. JOIST HANGERS SHALL BE SAME SIZE AS MEMBER SUPPORTED.
- PROVIDE SIMPSON H10A AT EACH RAFTER CONNECTION, OR EQUIVALENT, UNLESS ANOTHER ANCHORING METHOD IS INDICATED. FASTEN IN ACCORDANCE WITH MANF. WRITTEN INSTRUCTIONS. PROVIDE ADDITIONAL TIE DOWNS FOR PREFABRICATED WOOD TRUSSES PER FABRICATOR'S RECOMMENDATIONS.
- GLUE AND NAIL HEADERS @ 16" O.C. ALONG TOP AND BOTTOM EDGES WITH 16D COMMON STRAP HEADERS AND SILLS WITH SIMPSON STRAP

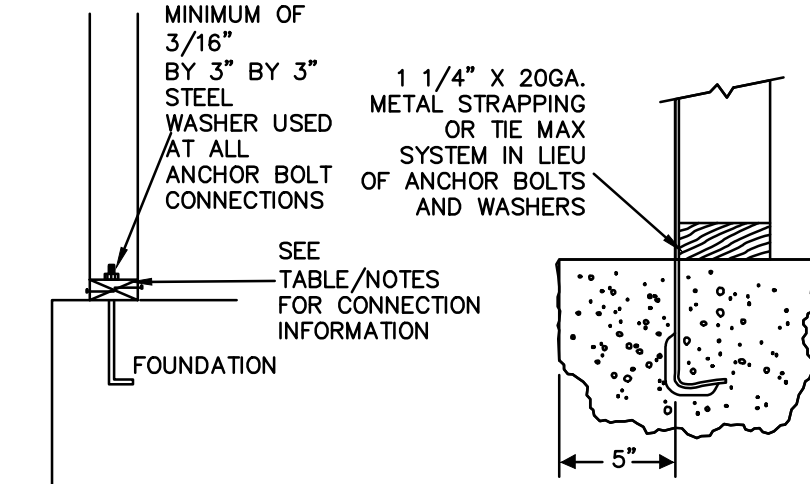
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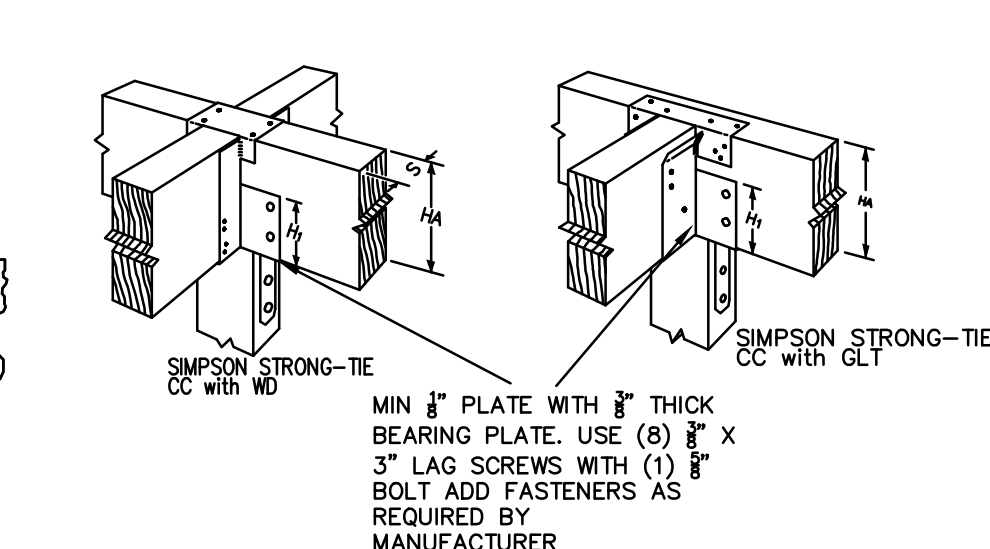
2 A401 TYPICAL HOLDDOWN ANCHOR SCALE: N.T.S.



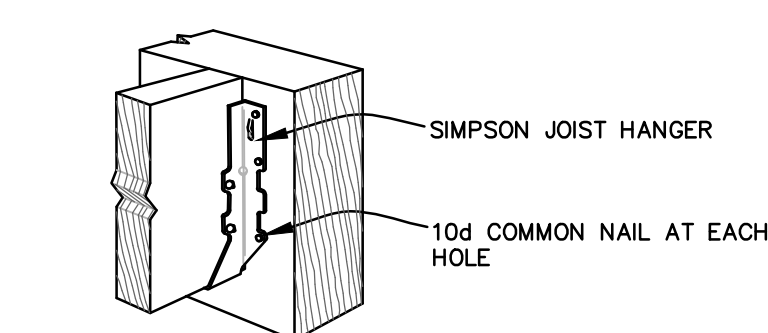
3 A401 TYPICAL COLUMN CONNECTION SCALE: N.T.S.



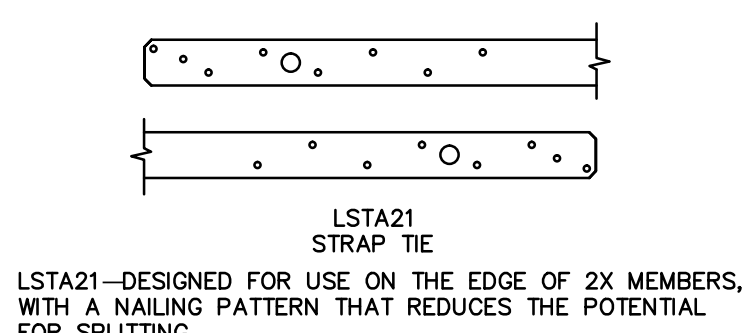
4 A401 TYPICAL FOUNDATION ANCHOR SCALE: N.T.S.



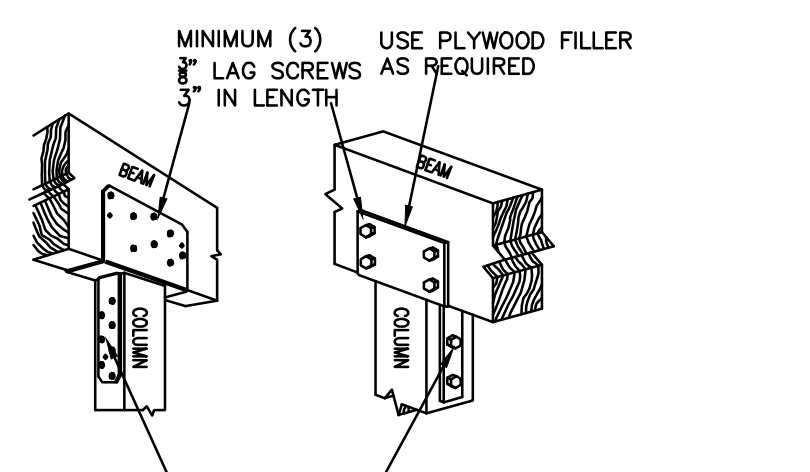
5 A104 TYPICAL CONNECTION DETAIL SCALE: N.T.S.



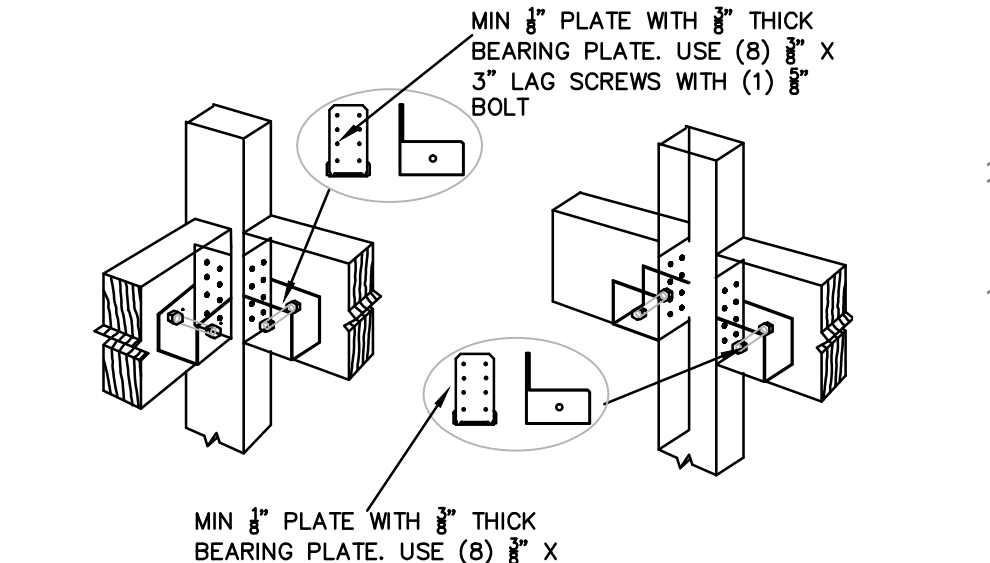
6 A401 TYPICAL JOIST CONNECTION SCALE: N.T.S.



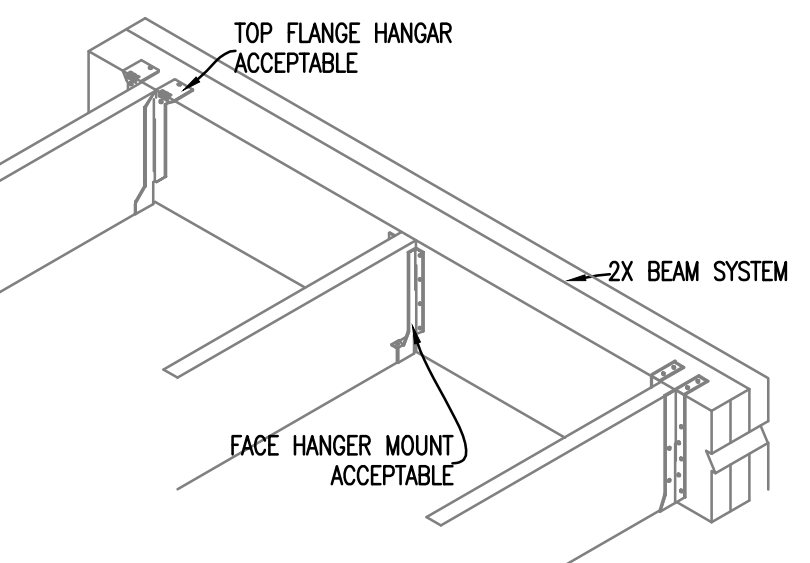
7 A401 TYPICAL RIDGE STRAP SCALE: N.T.S.



8 A401 TYPICAL BEAM-COLUMN CONNECTION SCALE: N.T.S.



9 A401 TYPICAL BEAM-COLUMN CONNECTION SCALE: N.T.S.



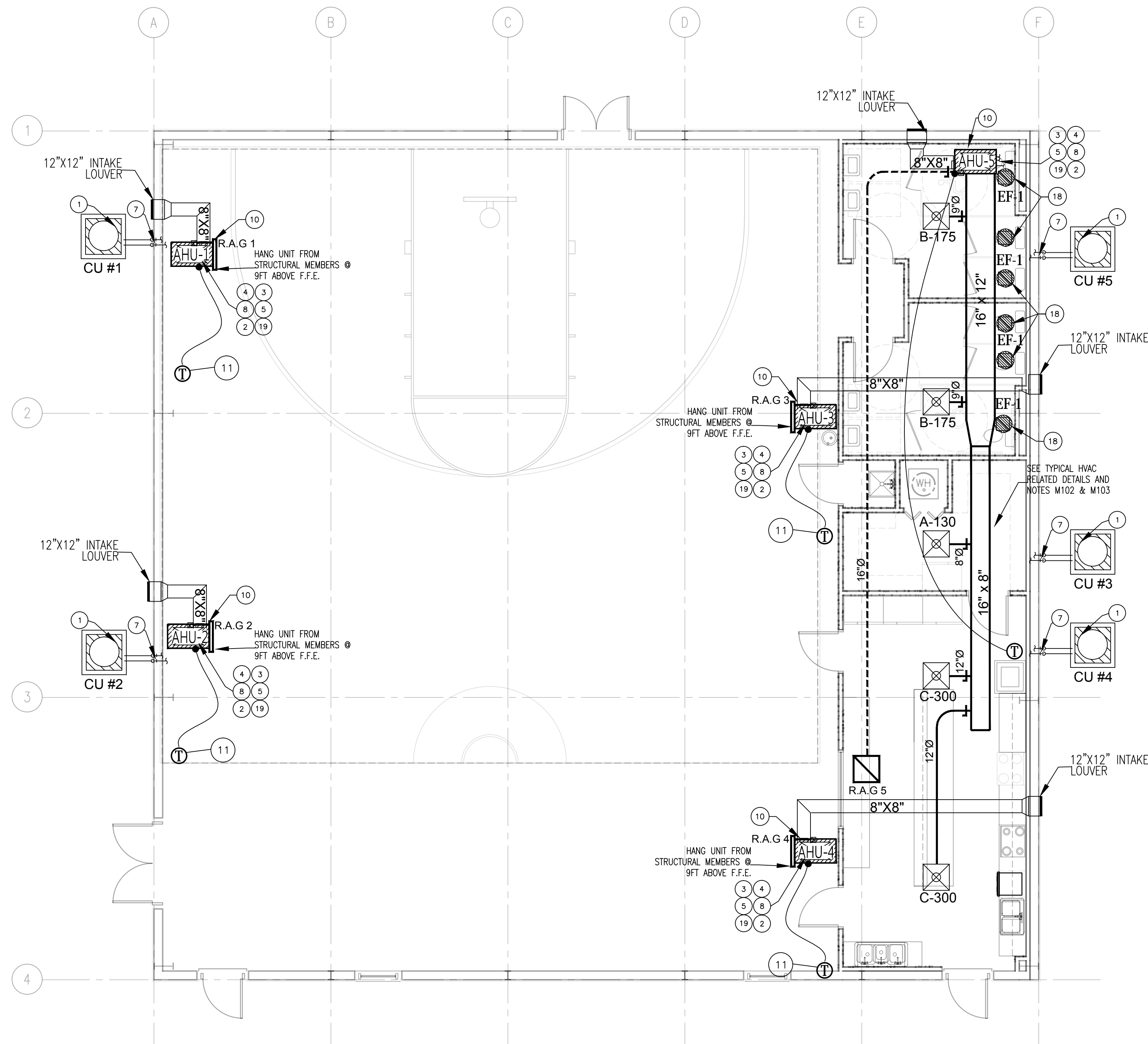
10 A401 TYPICAL HANGAR DETAIL SCALE: N.T.S.

Rev. No.	Date	Description

ENGINEER OF RECORD
 NAME: GEORGE NOBLES
 NUMBER: 31767

FRAMING NOTES
 FRAMING DETAILS
 NAILING SCHEDULE

Job No. E-00165
 Dwn. Chk.
 SWL. GBN
 Date Rev.
 01/25/2022 REV. 0



M101 MECHANICAL PLAN
SCALE: 3/16"=1'

MECH LEGEND	
	NEW DIFFUSER, SEE SCHEDULE
	LOW PRESSURE ROUND BRANCH DUCT W/ SIZE AND VOLUME DAMPER (RETURN)
	LOW PRESSURE ROUND BRANCH DUCT W/ SIZE AND VOLUME DAMPER (SUPPLY)
	THERMOSTAT
	12"X12" EXHAUST GRILLE SEE PLANS FOR CFM
	24"X24" EGG CRATE RETURN AIR GRILLE, TYPICAL.
	24"X48" RETURN AIR GRILLE

AIR HANDLING UNIT SCHEDULE (AHU)										
PLAN MARK	ELECTRICAL SERVICE	TOTAL CFM	OUTSIDE AIR CFM	ELEC. DATA	COOLING COIL DATA:				REMARKS	NOTES
					TOTAL GAIN BTUH	LATENT BTUH	SENSIBLE BTUH	TOTAL LOSS BTUH		
AHU 5	SEE PLANS	1400	150	1P- 120/240V	40,924	12,210	28,714	53,237	RHEEM OR EQUAL - RH1T4821TAN OR EQUAL WITH AHR# 7492558 W/14.4KW HEATER	1, 2, 4, 5
AHU 1,2,3,4	SEE PLANS	1990	500	1P- 120/240V	57,000	29,600	27,500	31,500	RHEEM OR EQUAL - RH1T6024STAN OR EQUAL WITH AHR# 7492673 W/14.4KW HEATER	1, 2, 4, 5

ALL UNITS TO BE SELECTED BASED ON COOLING DATA LISTED ABOVE. CONTRACTOR SHALL USE ALL APPLICABLE CODE REQUIREMENTS WHEN SELECTING UNIT

- EXTERNAL STATIC PRESSURE LOSSES DO NOT INCLUDE LOSS FOR DIRTY FILTERS.
- UNIT SHALL HAVE SINGLE POINT ELECTRICAL CONNECTION.
- MCA & MIN AMP IS GIVEN FOR EACH STAGE OF HEATING (1st STAGE W/ BLOWER) / (2nd STAGE)
- CONTRACTOR SHALL FURNISH UNIT WITH DUAL REFRIGERANT CIRCUITS
- FILTER RACK SHALL BE LOCATED AT AIR UNIT.

CONDENSING UNIT SCHEDULE (CU)																		
PLAN MARK	TONS OF REFR.	COMPRESSOR MOTOR DATA:					CONDENSER DATA:					MINIMUM CIRCUIT AMPACITY	MAXIMUM FUSE SIZE	REMARKS				
		NO. REQD	R.L.A.	TYPE REFR.	SUCT. TEMP.	VOLTS	PH. HZ.	AMBIENT TEMP.	COND. TEMP.	NO. OF FANS	H.P. EACH				VOLTS	PH. HZ.		
CU-5	4.0	1	19.9	410-a	47	208/230	1	60	95	120	1	1/5	208/230	1	60	27	45	RHEEM OR EQUAL - RA1448AJ1 OR EQUAL
CU-1,2,3,4	5.0	1	19.9	410-a	47	208/230	1	60	95	120	1	1/5	208/230	1	60	47	60	RHEEM OR EQUAL - RA1460AJ1 OR EQUAL

- LOW AMBIENT TO 10°F.
- ALL CONDENSING UNITS SHALL BE A MINIMUM OF 13 SEER.
- UNIT SHALL HAVE SINGLE POINT ELECTRICAL CONNECTION.

EXHAUST FAN SCHEDULE										
PLAN MARK	SERVICE	TOTAL CFM	S.P. LOSS IN. W.C.	HORSE POWER	FAN RPM	MOTOR RPM	DRIVE TYPE	MAX. SONES	ELECTRIC SERVICE	REMARKS
EF-1	ADA RESTROOM	75	.20	49 WATTS	950	N/A	DIRECT	1.4	120/1/60	CABINET TYPE, DIRECT DRIVE, GREENHECK SP-A110 OR BROAN

1. INTERLOCK FAN CONTROL WITH LIGHT SWITCH TO OPERATE FROM EACH ROOM. REFER TO LIGHTING SCHEDULE FOR ADDITIONAL FIXTURE INFORMATION

DUCT SIZING CHART					
METAL DUCT			FLEX DUCT		
ROUND DUCT SIZE	SUPPLY AIR CFM	RETURN AIR CFM	ROUND DUCT SIZE	SUPPLY AIR CFM	RETURN AIR CFM
4	33	4	4	20	
5	58	45	5	42	32
6	93	72	6	68	52
7	145	111	7	105	81
8	210	155	8	150	115
9	275	210	9	200	151
10	365	280	10	265	205
12	600	450	12	430	330
14	900	700	14	650	500
16	1300	980	16	950	730
18	1750	1350	18	1275	975
20	2300	1800	20	1750	1300

NON-FILTER GRILL: H x W x 3 = CFM
FILTER GRILL: H x W x 2 = CFM

DIFFUSER SCHEDULE (COMMERCIAL)				
SYM.	CFM RANGE	FACE SIZE	NECK SIZE	REMARKS
A	0-130	24"X24"	6"	LOUVER FACED, SUPPLY, NAILOR IND. MODEL# UNI
B	130-230	24"X24"	8"	LOUVER FACED, SUPPLY, NAILOR IND. MODEL# UNI
C	230-320	24"X24"	10"	LOUVER FACED, SUPPLY, NAILOR IND. MODEL# UNI
D	325-600	24"X24"	12"	LOUVER FACED, SUPPLY, NAILOR IND. MODEL# UNI
E	600-850	24"X24"	14"	LOUVER FACED, SUPPLY, NAILOR IND. MODEL# UNI

MECHANICAL PLAN NOTES	
MRK	DESCRIPTION
1	CONDENSING UNIT MOUNTED ON CONCRETE PAD. LOCATE A MINIMUM OF 3'-0" APART (TYPICAL).
2	GALVANIZED SECONDARY DRAIN PAN. EXTEND DRAIN PAN 6" BEYOND EACH SIDE OF UNIT. PAN SHALL HAVE A FLOAT SWITCH TO LOCK OUT THE CONDENSING UNIT. TYPICAL FOR EACH AIR UNIT.
3	FLEX. CONNECTION INLET AND DISCHARGE OF ALL UNITS. (TYPICAL)
4	8"X8" OUTSIDE AIR DUCT WITH M.V.D. LOCATE MINIMUM 15'-0" FROM ANY EXHAUST.
5	ROUTE REFRIGERANT LINES EXPOSED THROUGH ATTIC. ROUTE DOWN EXTERIOR WALL TO RESPECTIVE CONDENSING UNIT. TURN OUT OF WALL 0'-6" ABOVE GRADE. SEAL WALL PENETRATION WATER TIGHT. TYPICAL FOR ALL AIR UNITS.
6	SPIN COLLAR W/ AIR SCOOP AND M.V.D., TYPICAL ROUND DUCT TAKE-OFF. REFER TO DETAIL
7	REFRIGERANT LINES (TYPICAL) ROUTE UP EXTERIOR WALL THROUGH TO THE ATTIC TOWARD THE RESPECTIVE AIR HANDLING UNIT. REFRIGERANT LINES SHALL BE SIZED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8	1-1/4" CONDENSATE DRAIN LINE W/ AIR TRAP. ROUTE TO NEAREST INTERIOR OR EXTERIOR PLUMBING CONNECTION. INSULATE CONDENSING DRAIN LINE. REFER TO SPECS. DRAIN INDIRECTLY INTO THE TRAP. MAINTAIN AIR GAP. TYPICAL FOR EACH AIR UNIT.
9	DELETED.
10	MANUAL VOLUME DAMPER (TYPICAL)
11	DIGITAL PROGRAMMABLE THERMOSTAT WITH DEHUMIDIFICATION SEQUENCE EQUAL CARRIER MODEL #33CS450-01 OR EQUAL.
12	RETURN AIR TRANSFER ASSEMBLY W/ TWO (2) 12"X12" EGG CRATE GRILLES CONNECTED TOGETHER WITH 10" DIAMETER HARD METAL DUCT AS REQUIRED IN WALL AT 8 FT A.F.F.
13	24" X 48" RETURN GRILL. (TYPICAL) NAILOR IND. MODEL# 51EC
14	DELETED.
15	2" ACCOUSTICAL INSULATION ON ALL INTERIOR WALLS IN MECHANICAL ROOM. REFER TO SPECIFICATION.
16	ALL RECTANGULAR DUCT SHALL HAVE A 1" INSULATION LINER (SUPPLY & RETURN) AND 2" OF EXTERNAL INSULATION (SUPPLY ONLY).
17	DELETED
18	6" ROUND OUTSIDE AIR DUCT UP TO EXHAUST HOOD ON ROOF W/ PREFABRICATED ROOF CURB. LOCATE ON BACK SIDE OF RIDGE. LOCATE MINIMUM 15'-0" FROM ANY INTAKE.
19	TURNING VANES IN ALL ELBOWS 45 DEGREES AND GREATER. (TYPICAL)

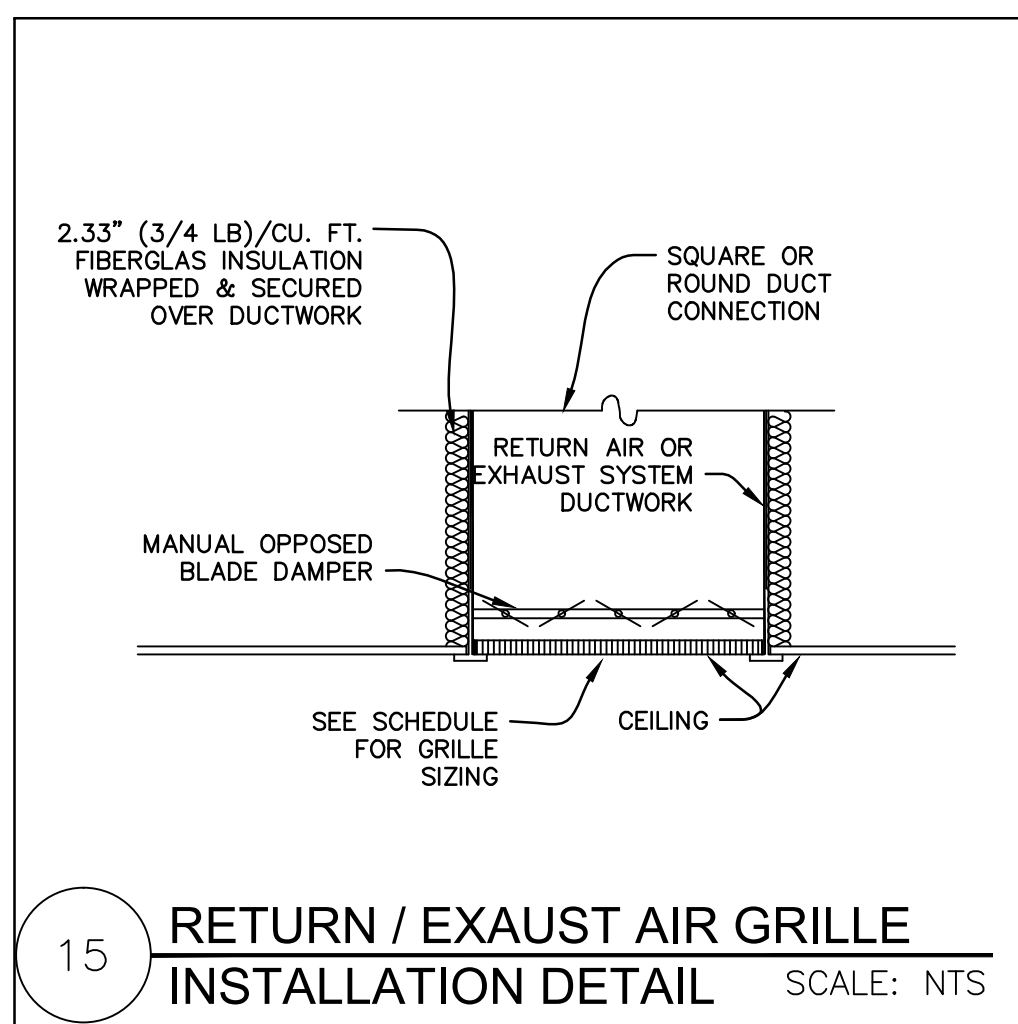
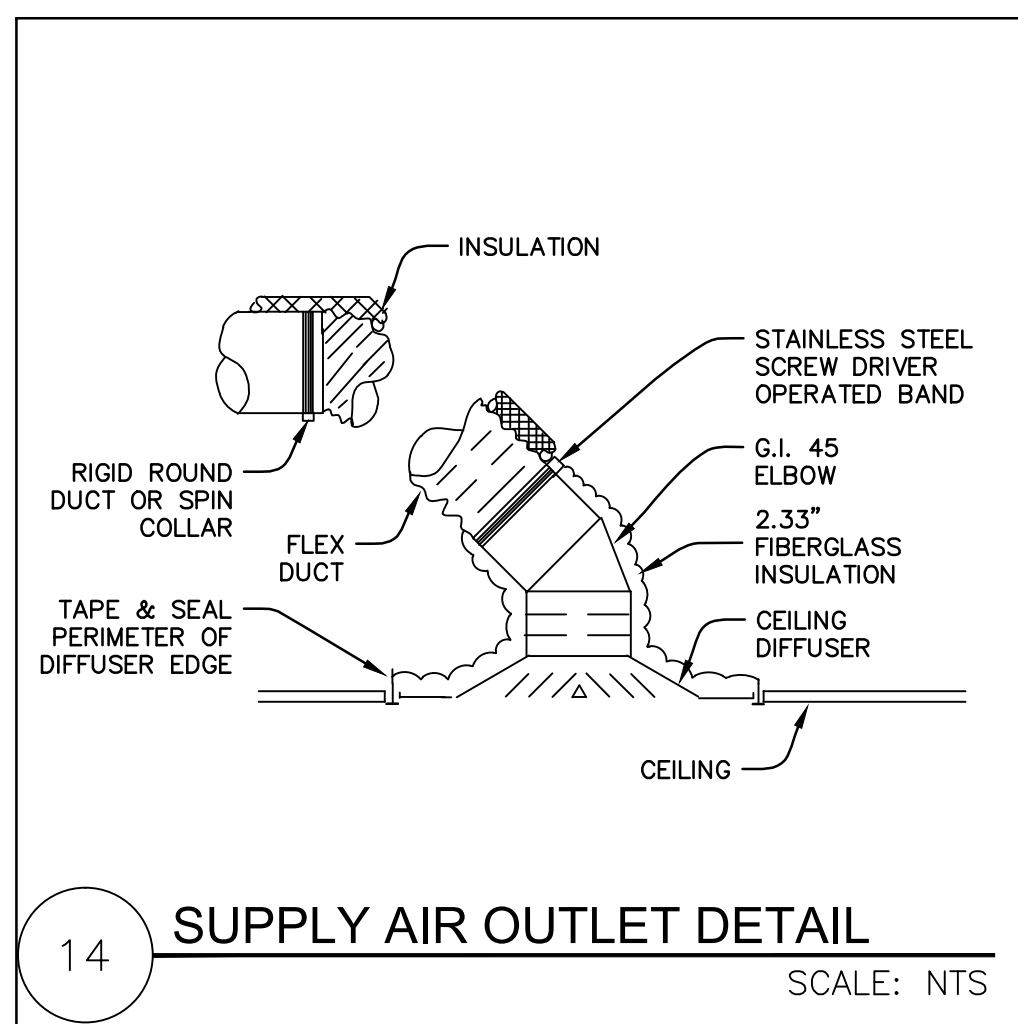
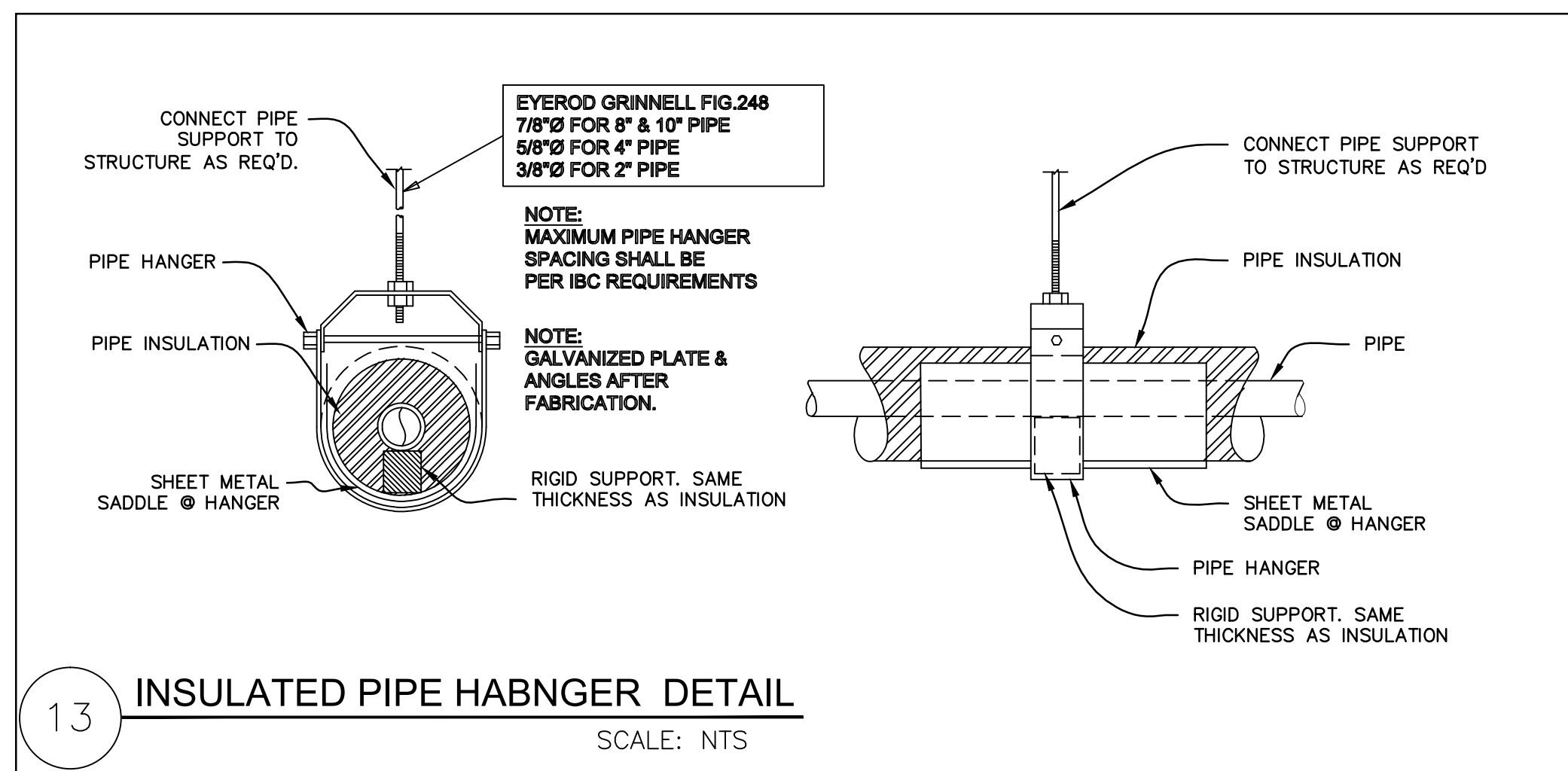
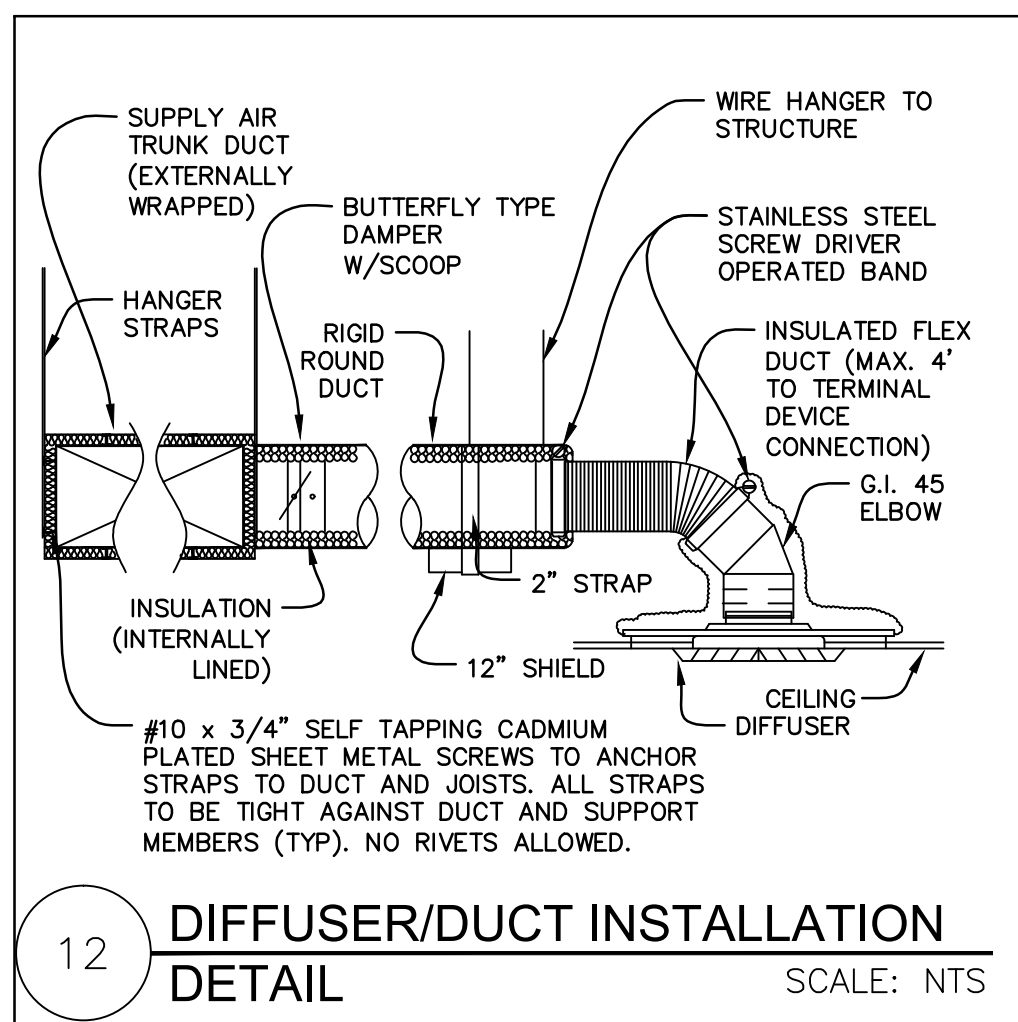
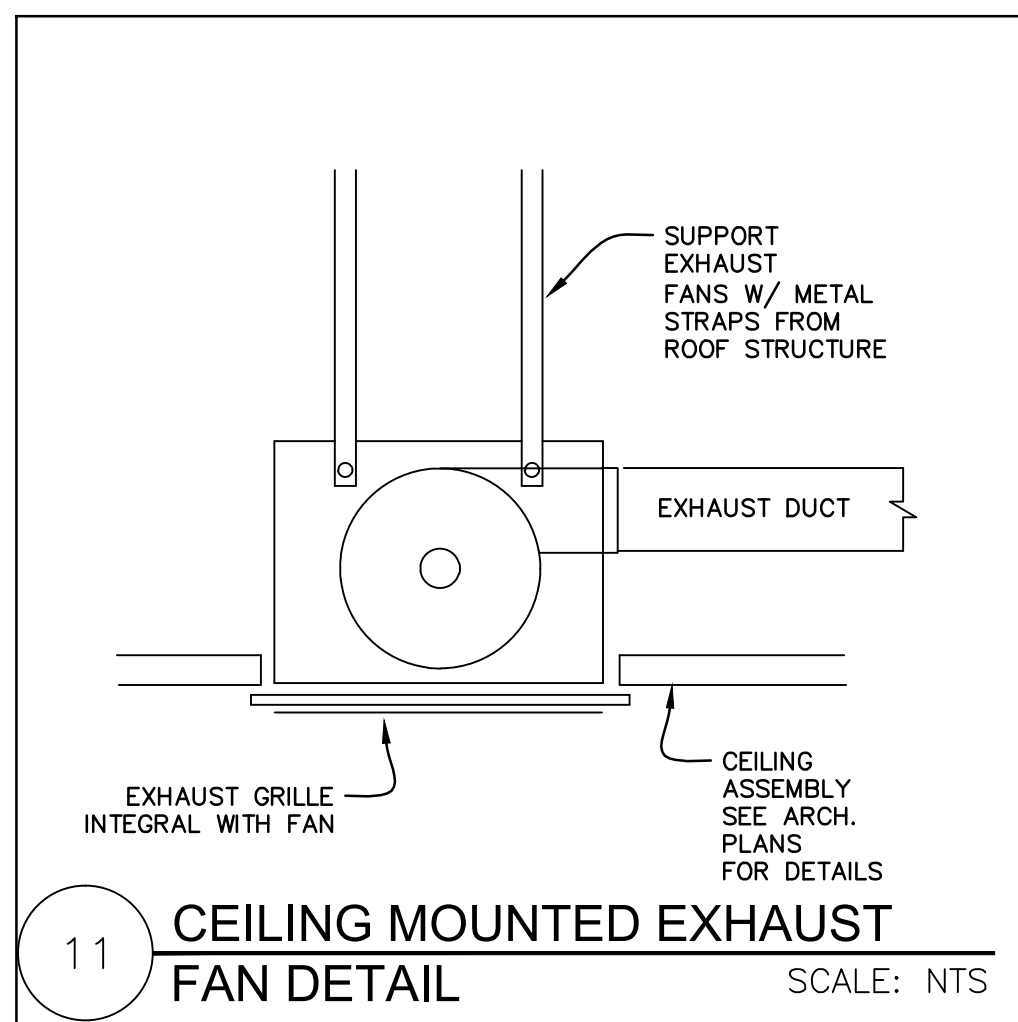
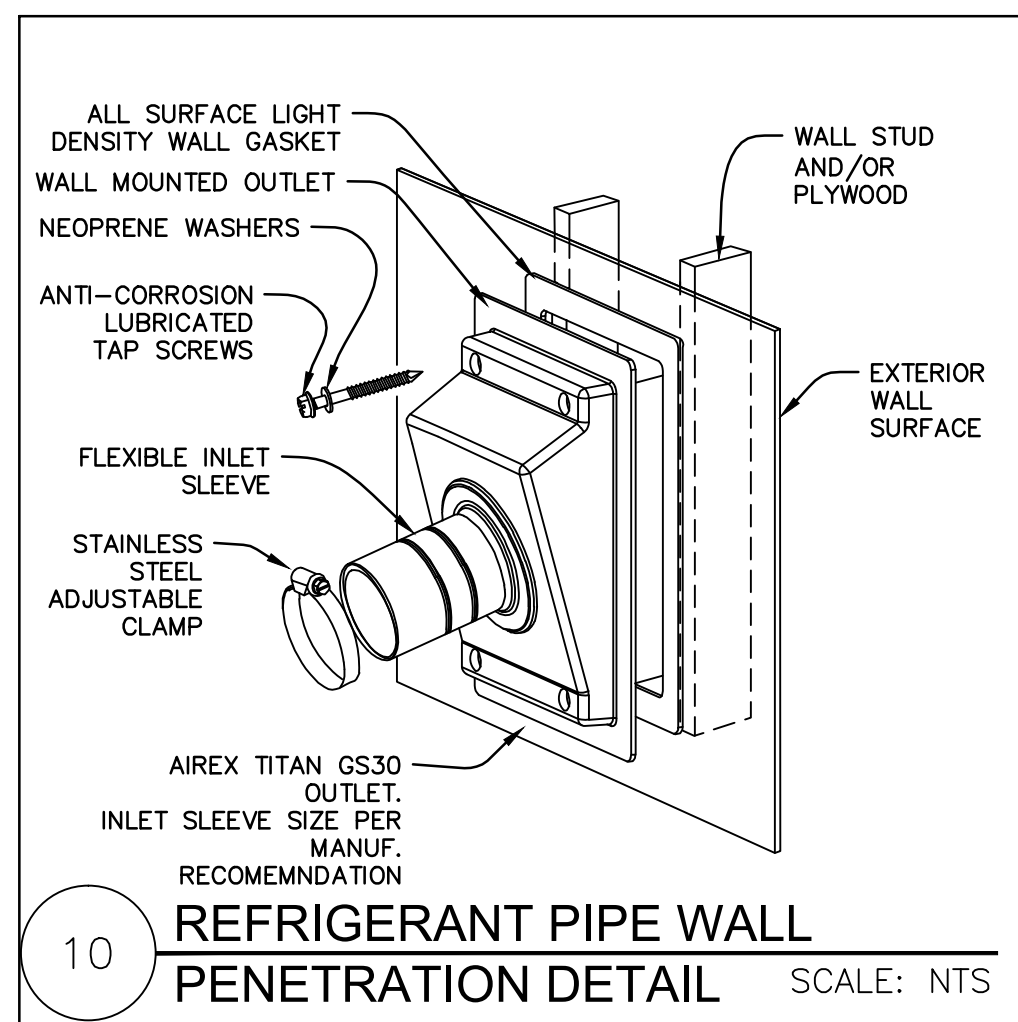
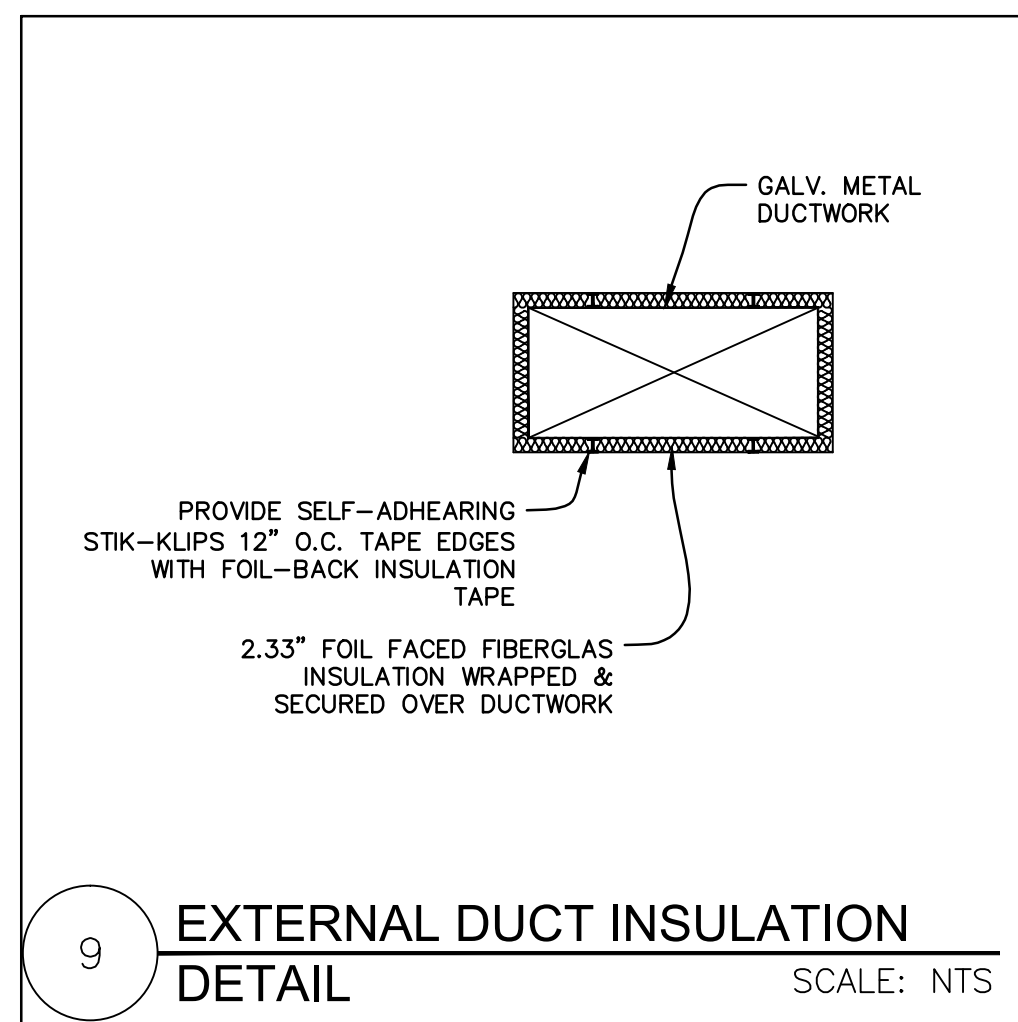
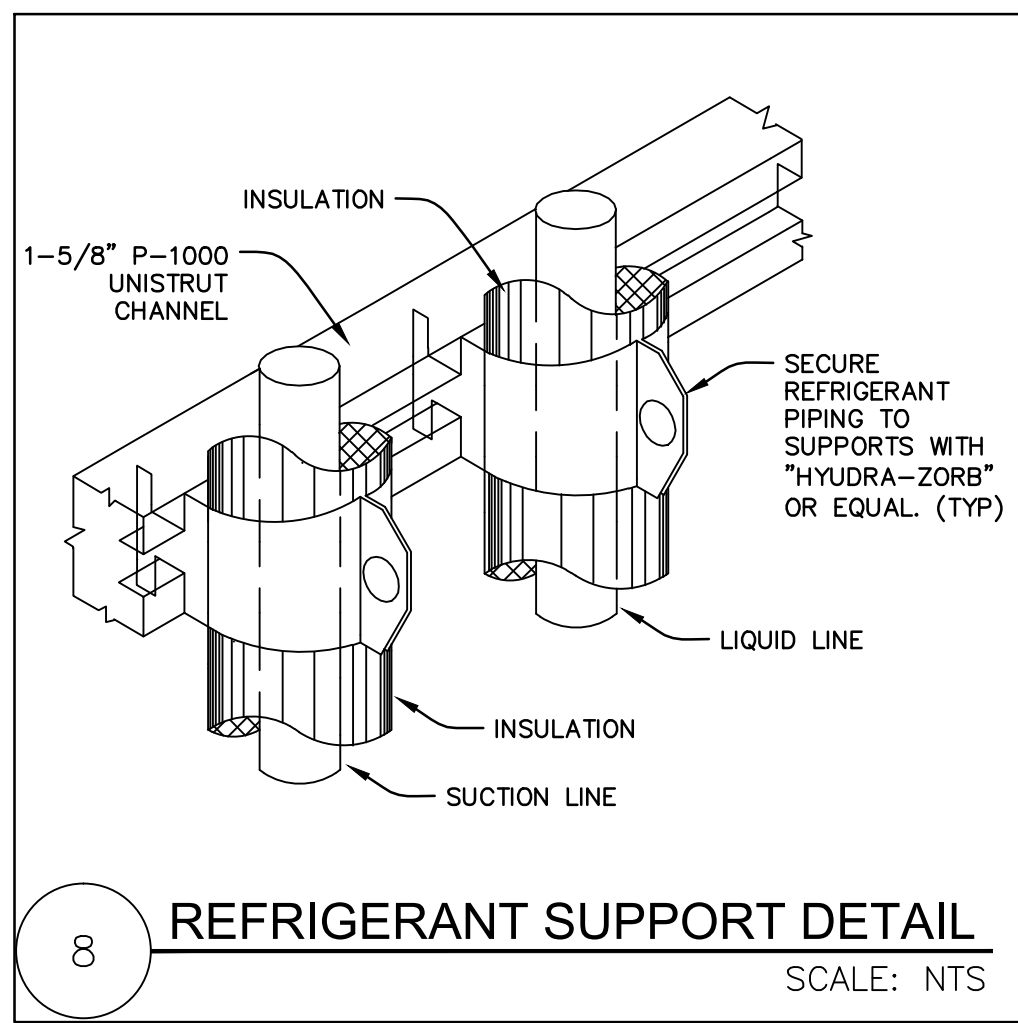
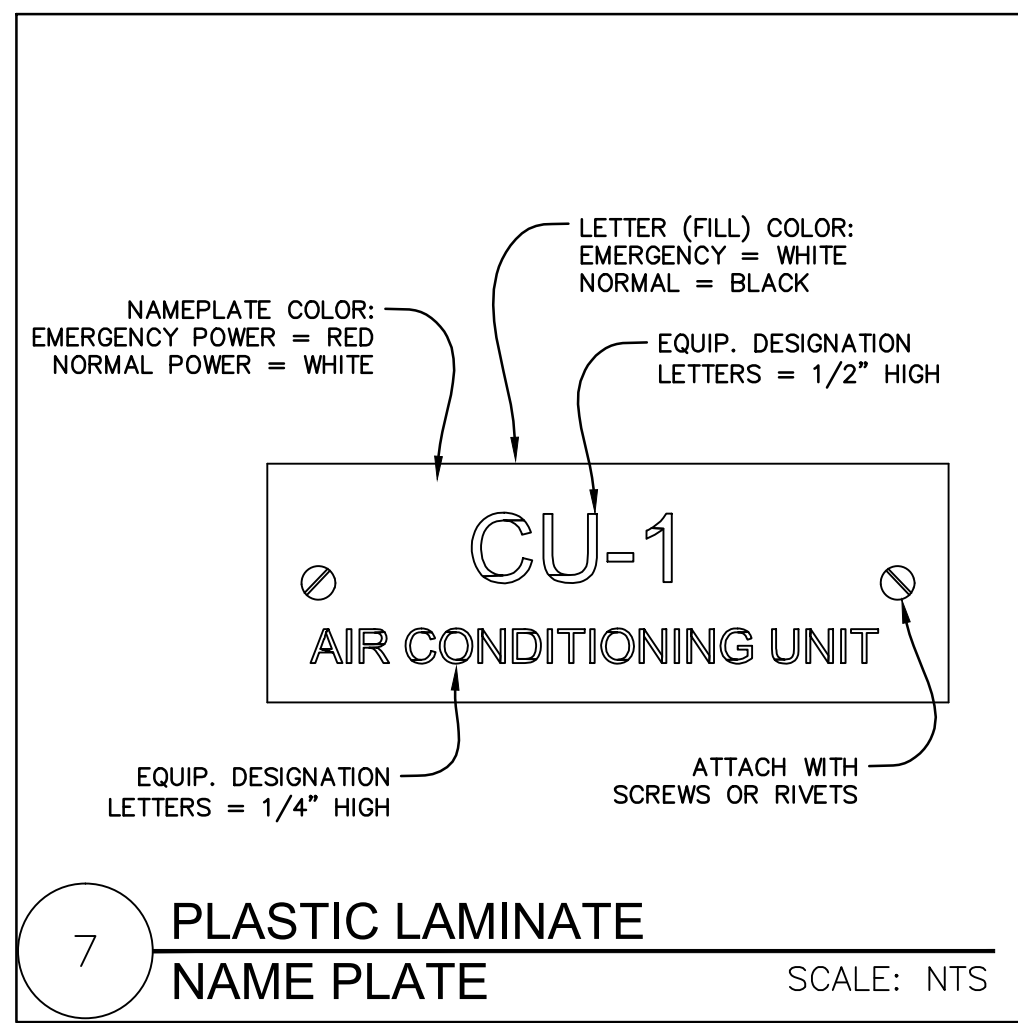
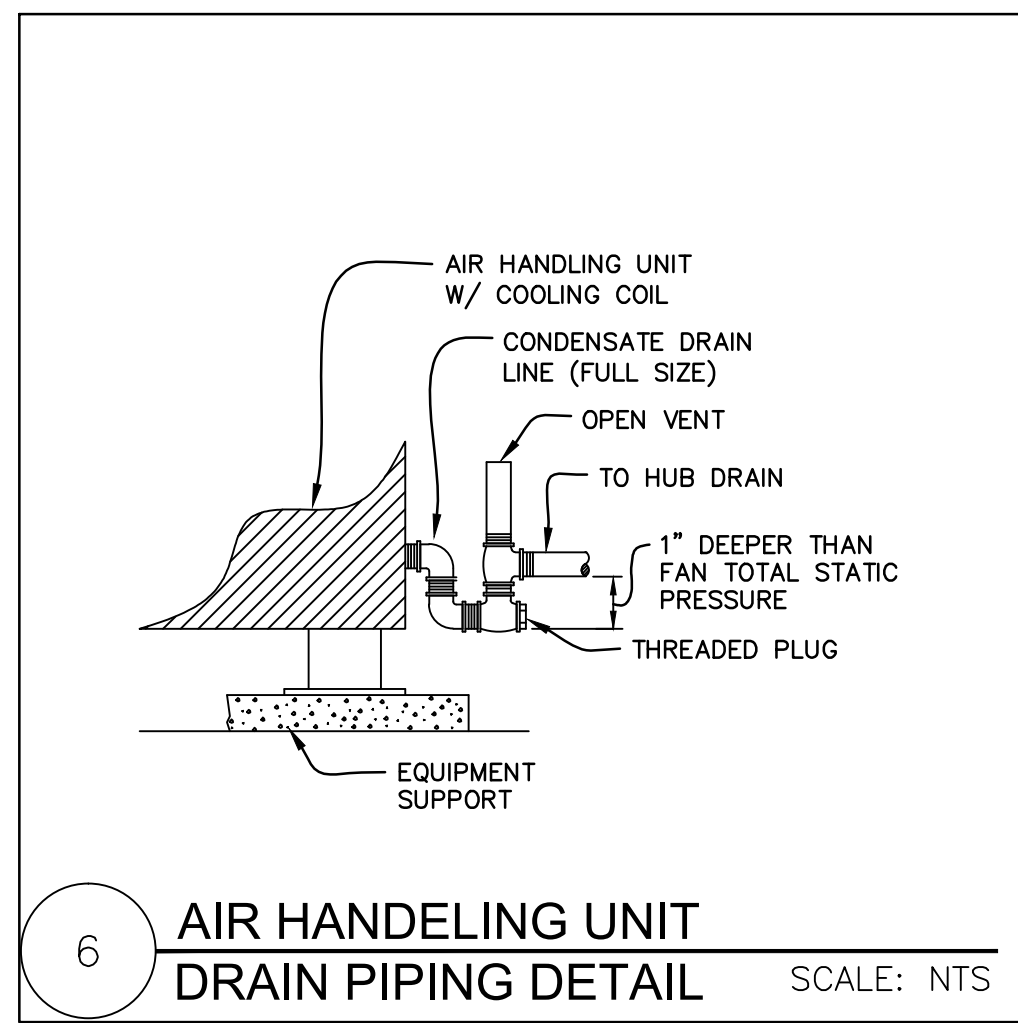
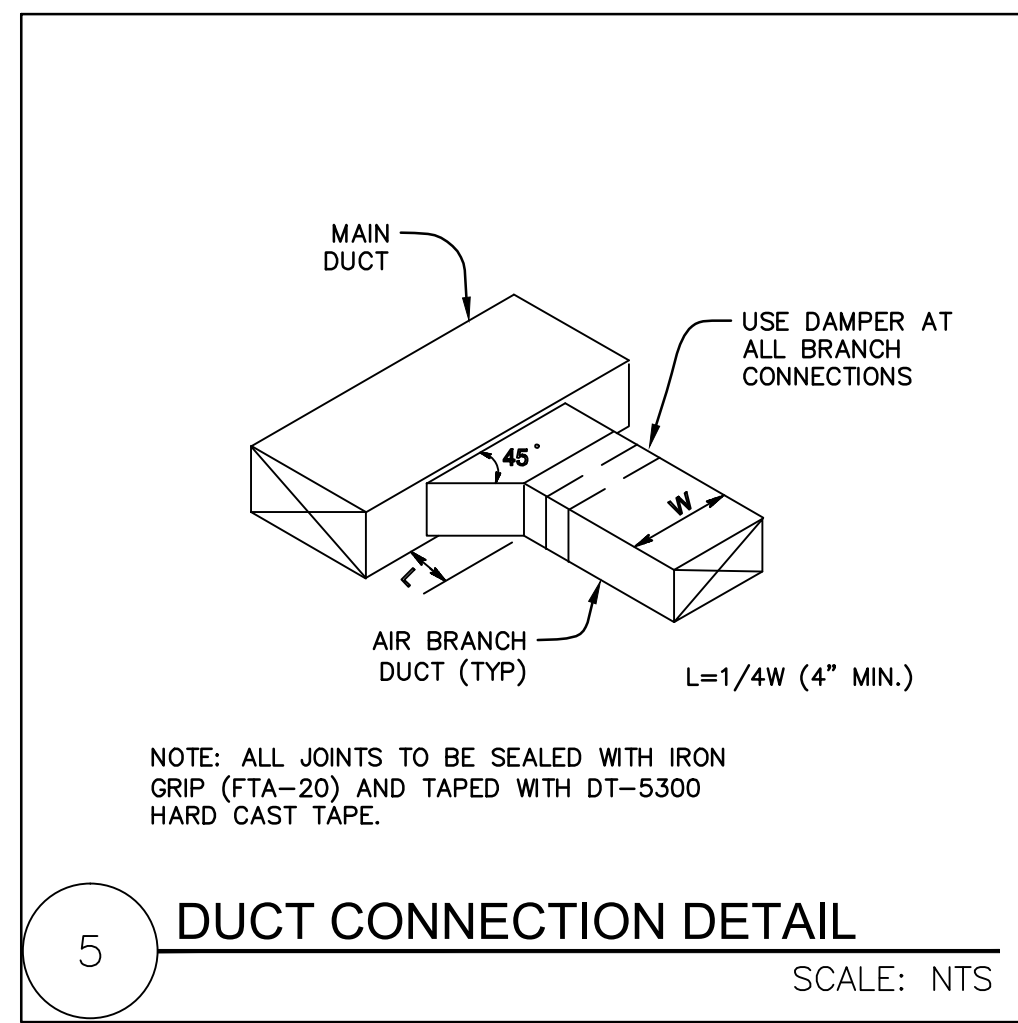
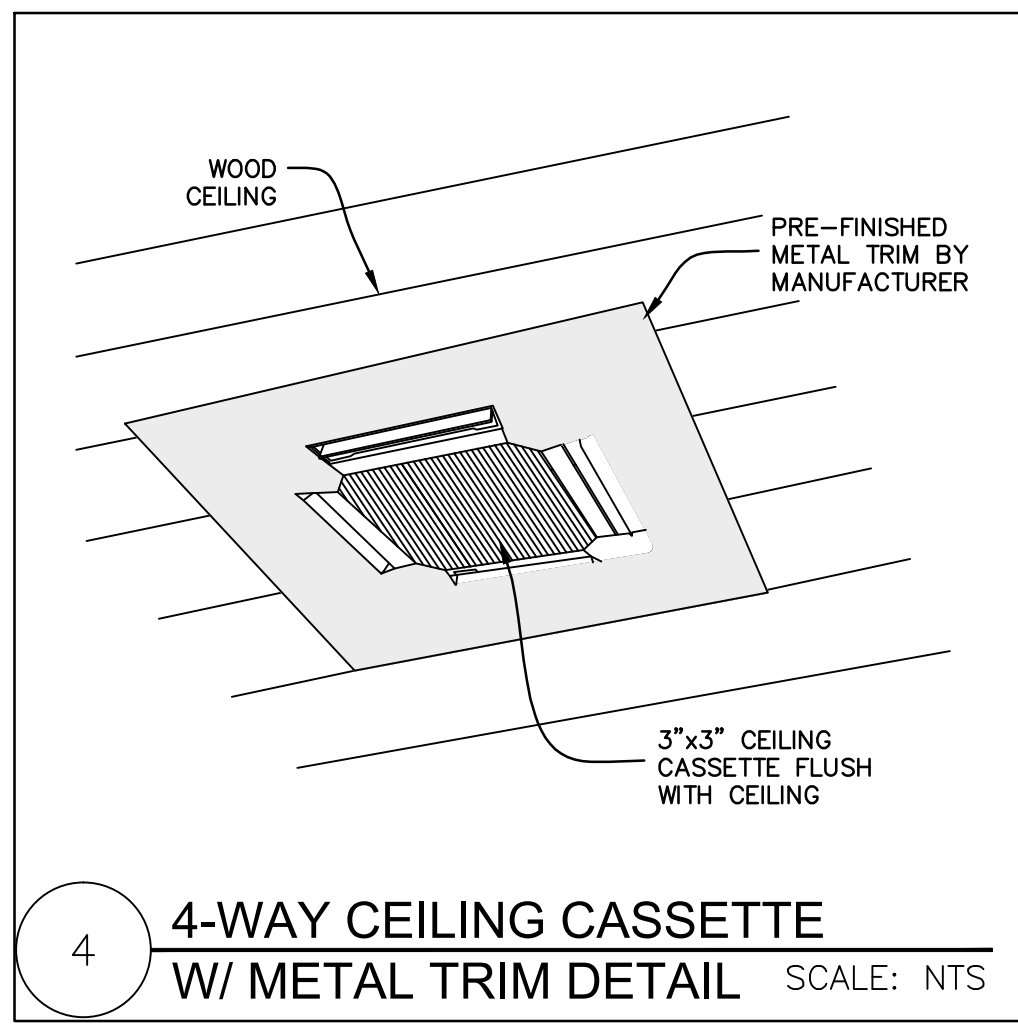
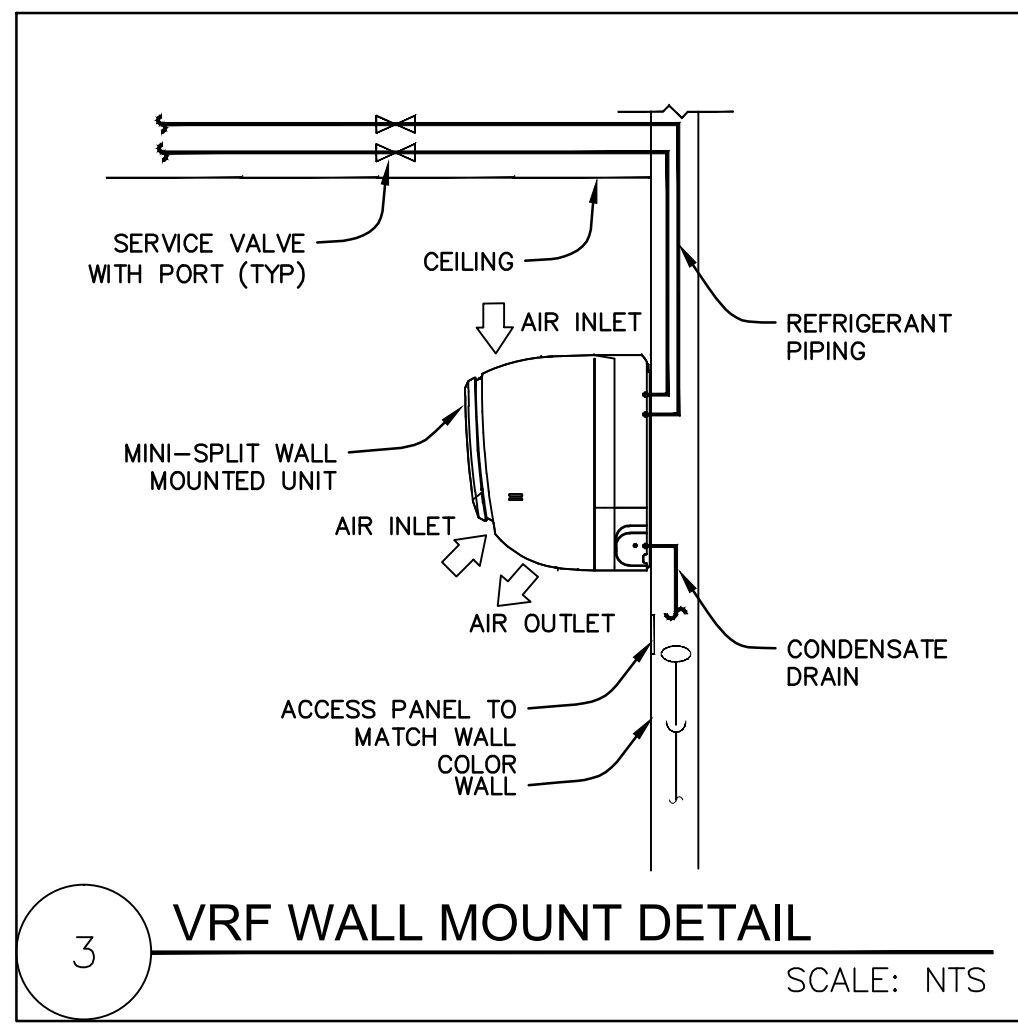
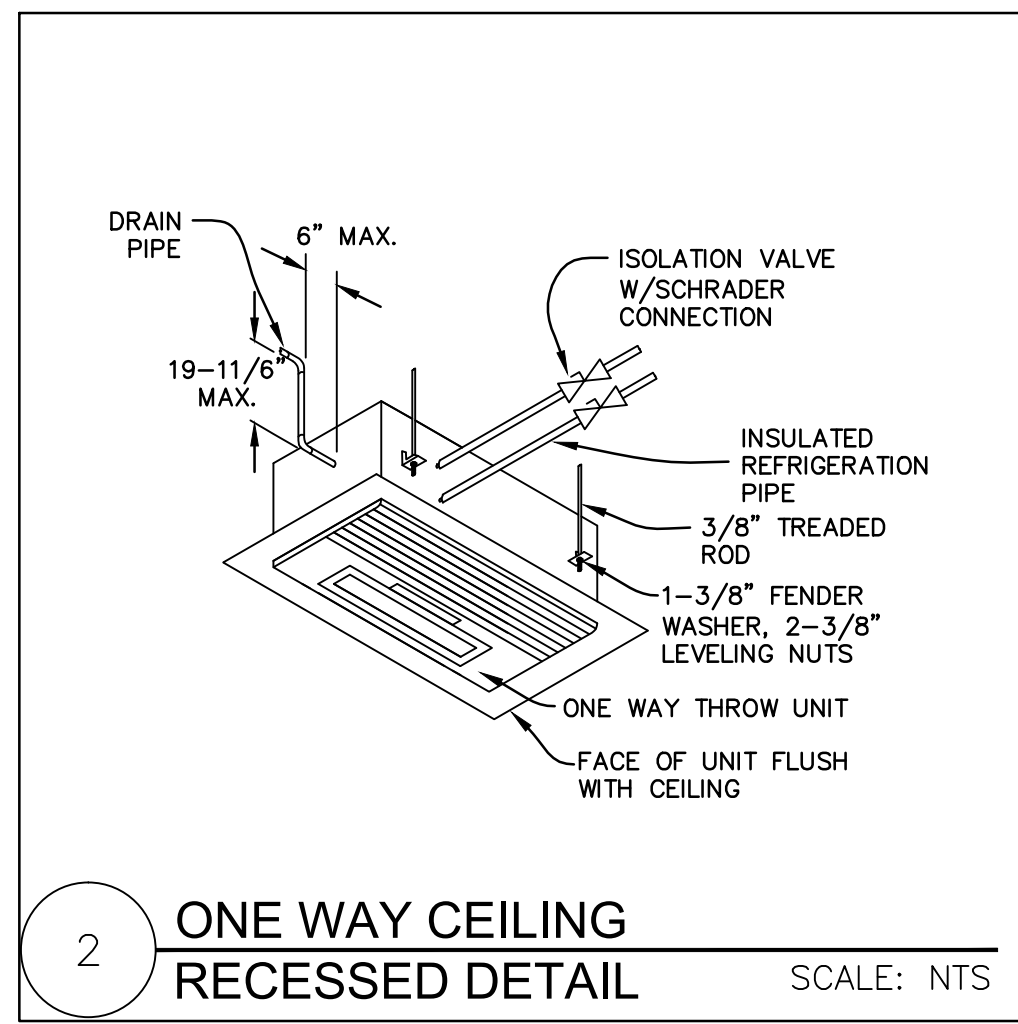
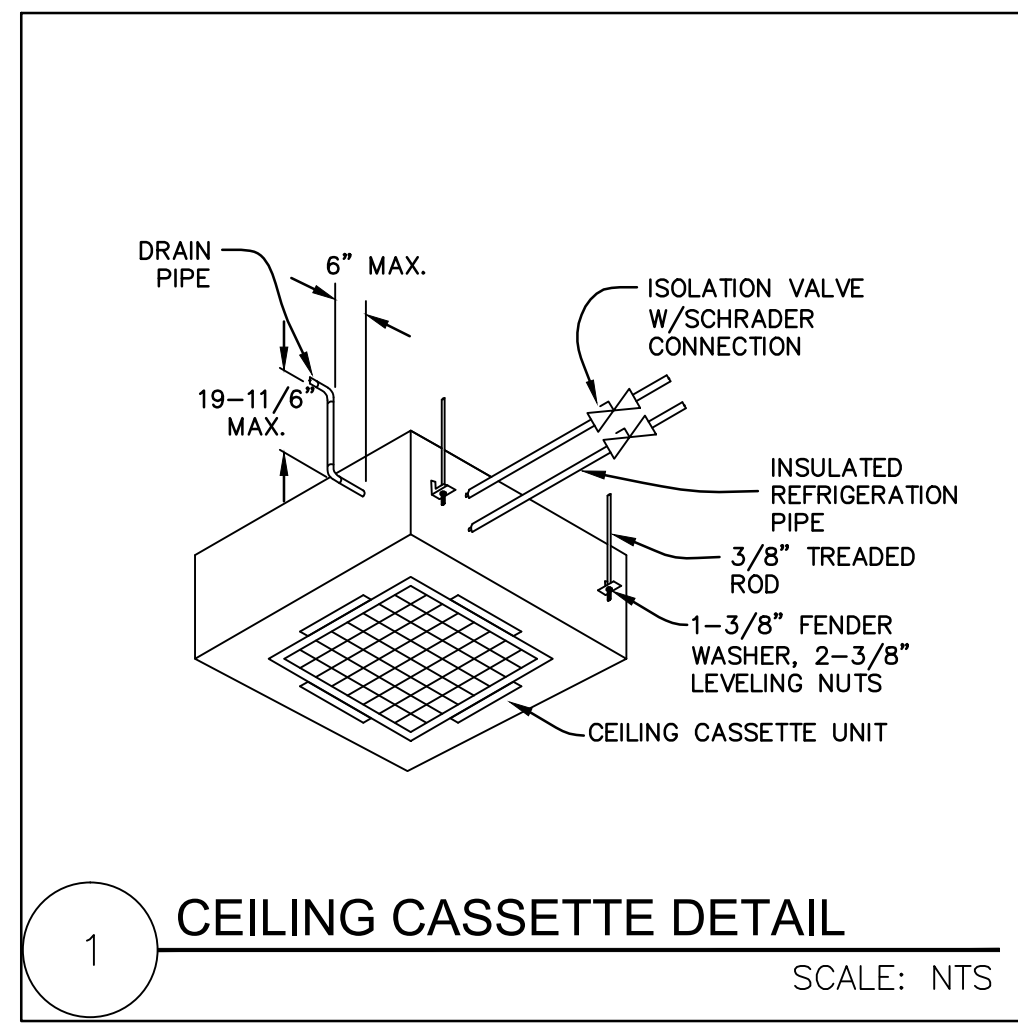
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 MULTIPURPOSE FACILITY
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Rev. No.	Date	Description

ENGINEER OF RECORD
 NAME: GEORGE NOBLES
 NUMBER: 31767
 MECHANICAL PLAN
 Job No. E-00165
 Dwn. Chk.
 SWL GBN
 Date Rev.
 01/25/2022 REV. 0
M101
 Sheet 1 of 1

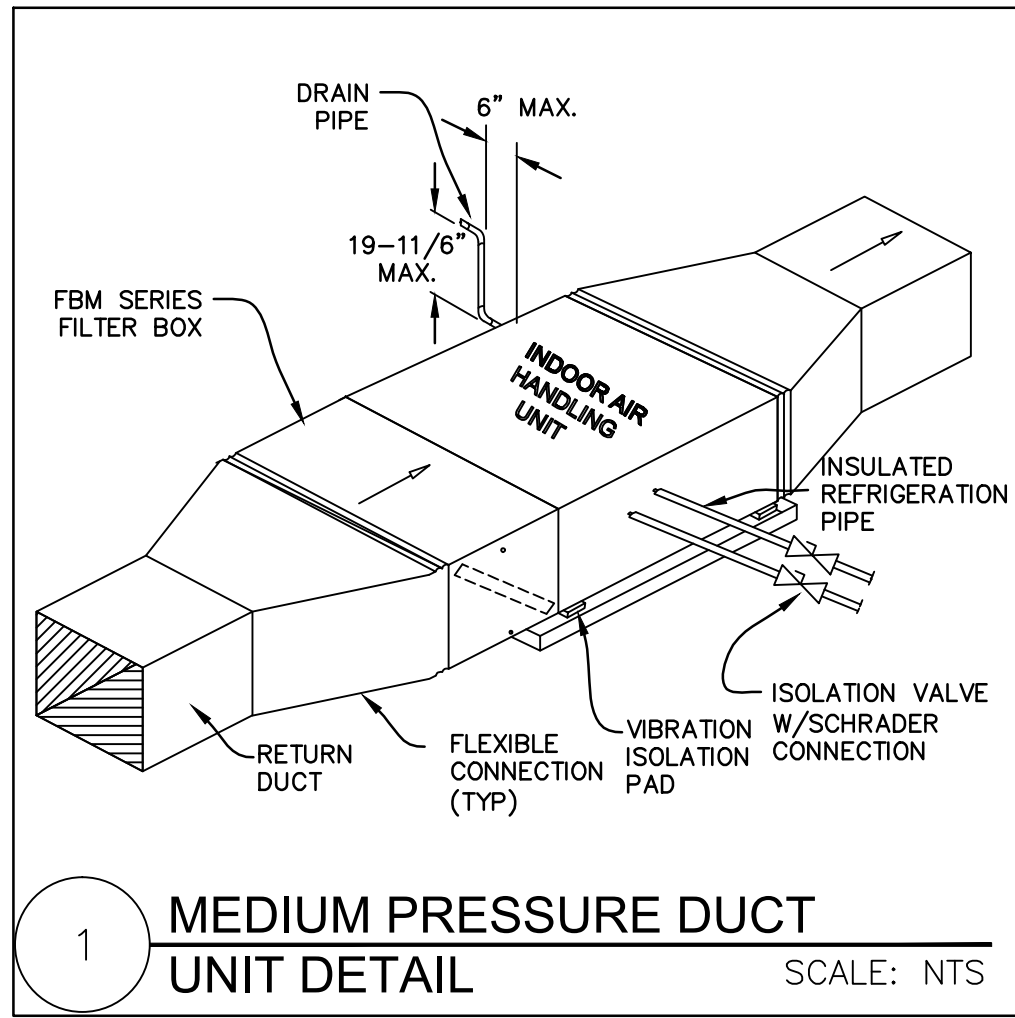
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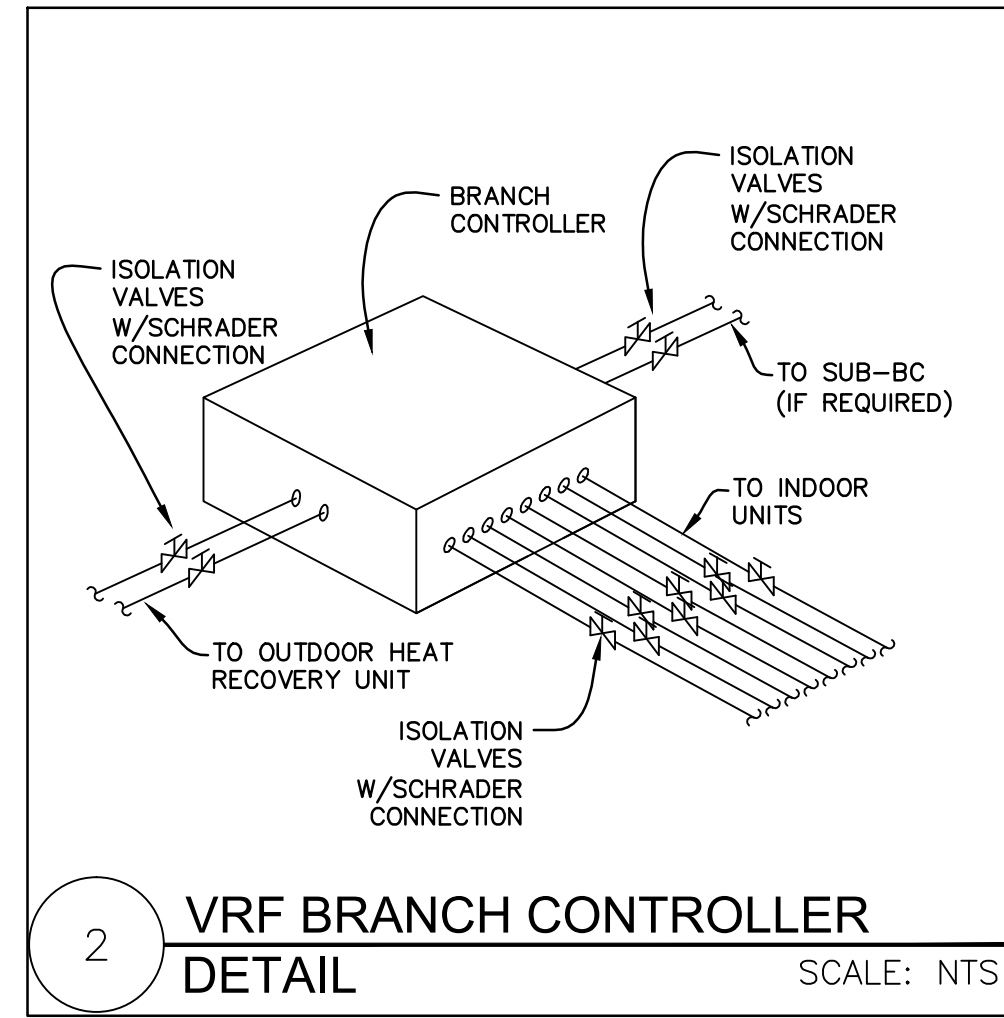
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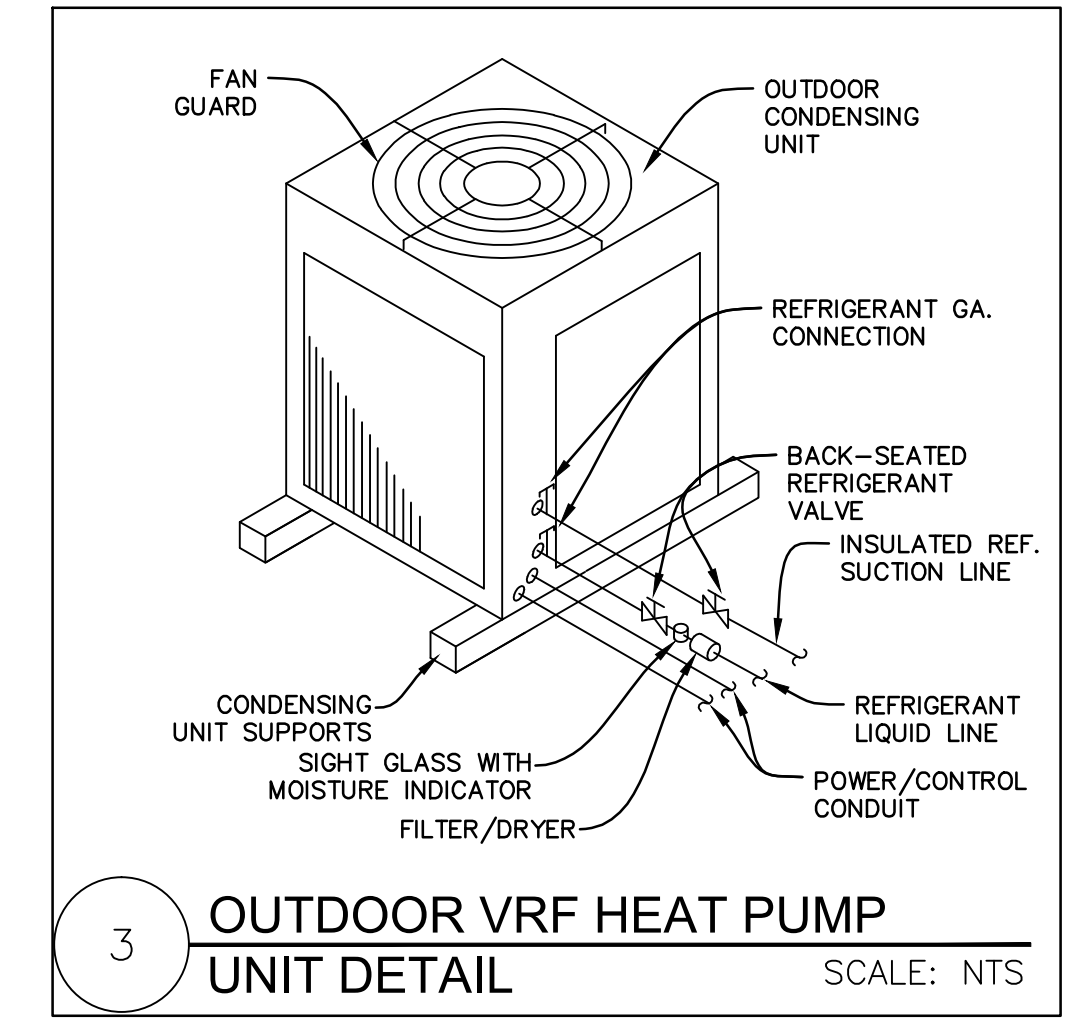
MECHANICAL DETAILS
Job No. E-00165
Dwn. Chk.
SWL GBN
Date Rev.
01/25/2022 REV. 0



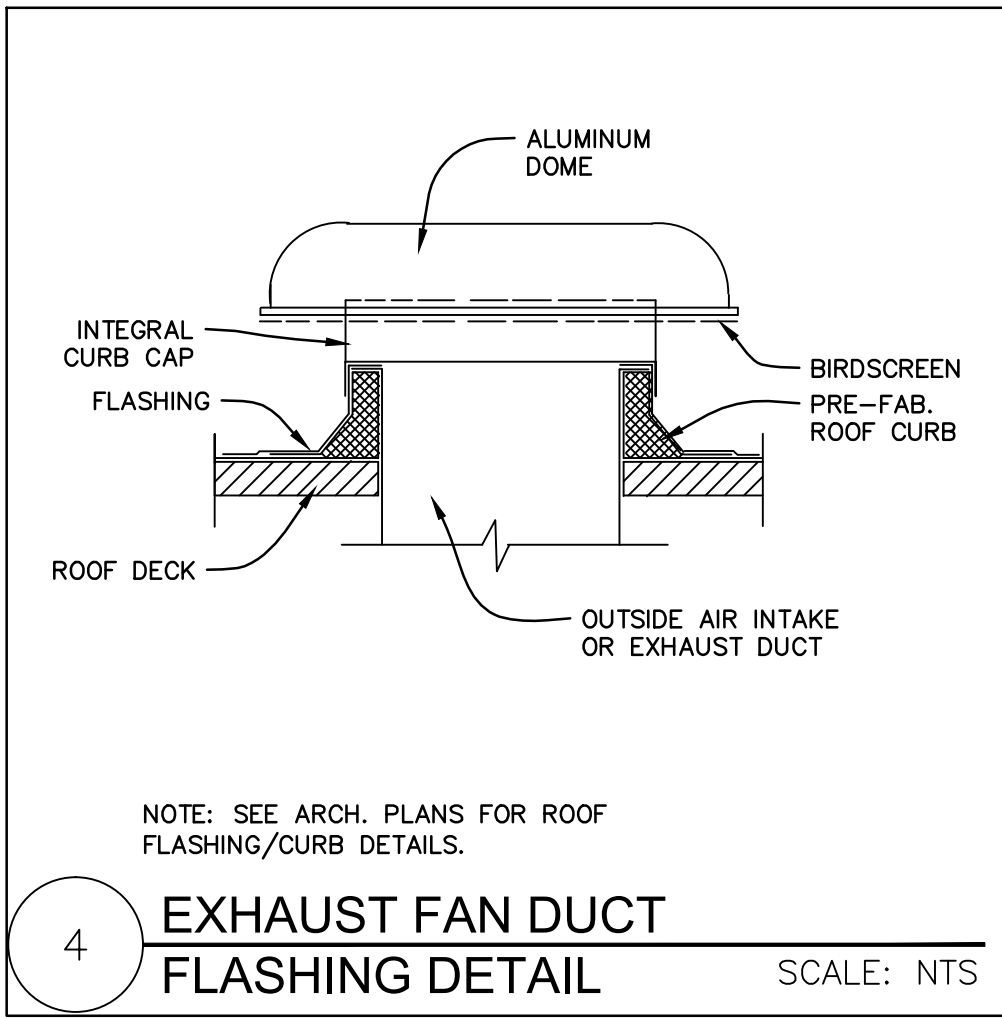
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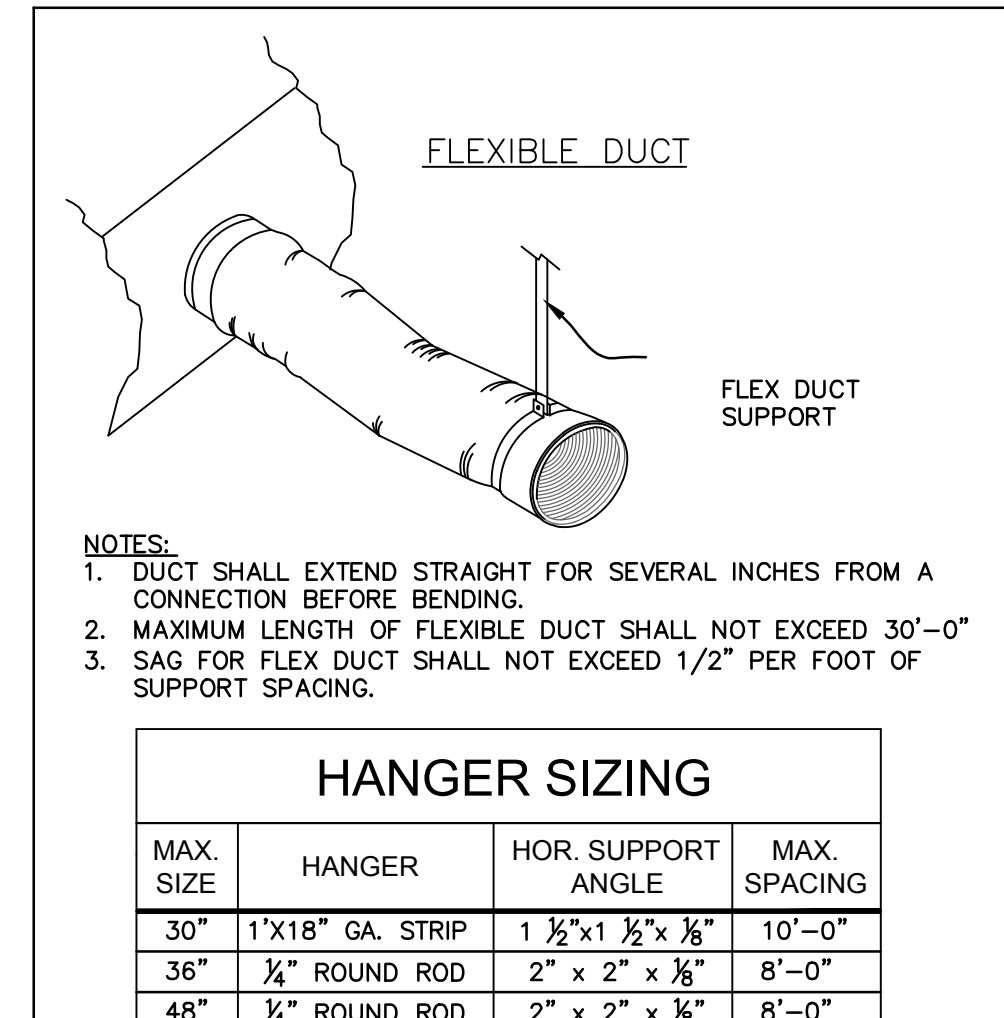
2 VRF BRANCH CONTROLLER DETAIL SCALE: NTS



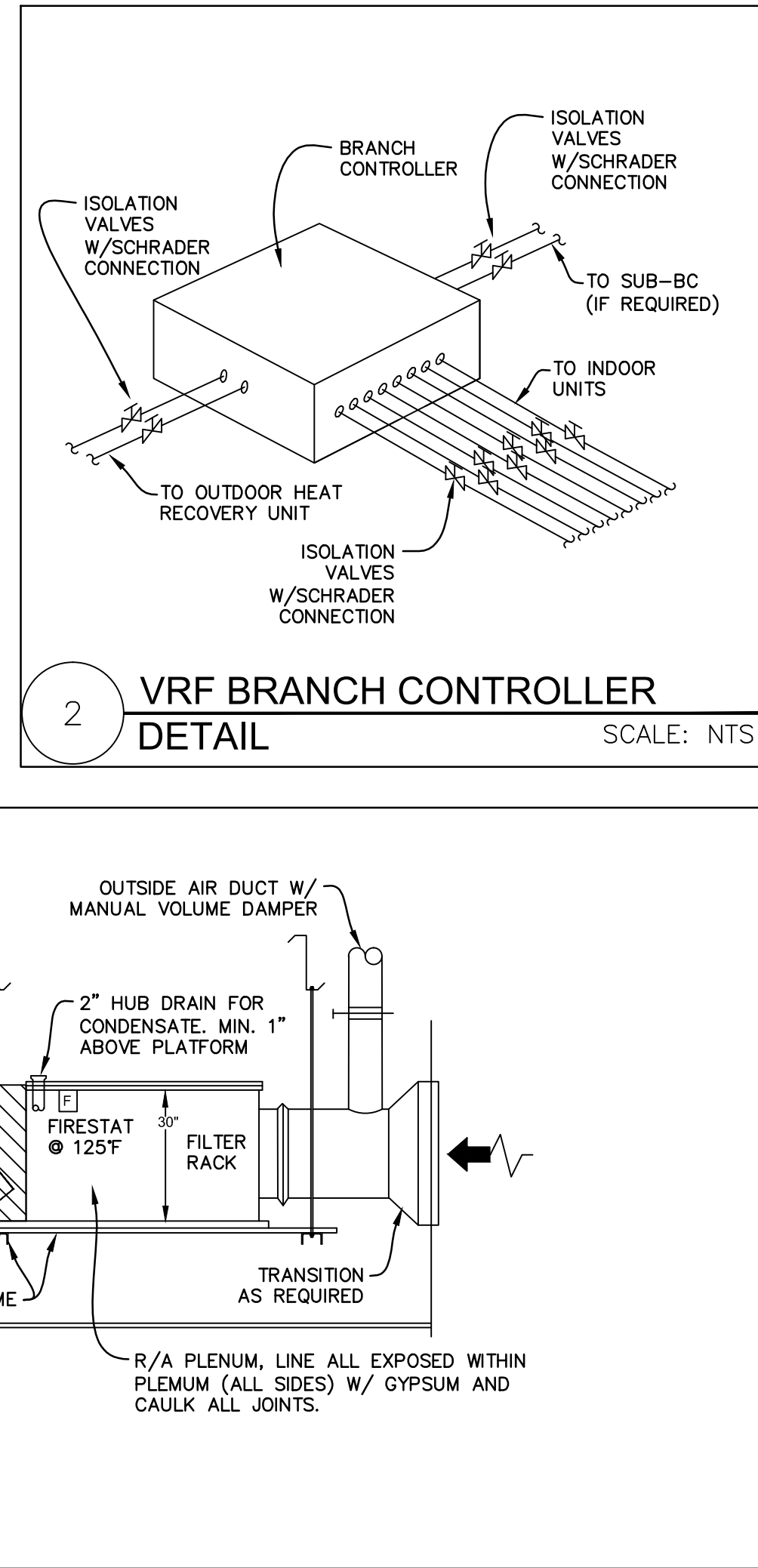
3 OUTDOOR VRF HEAT PUMP UNIT DETAIL SCALE: NTS



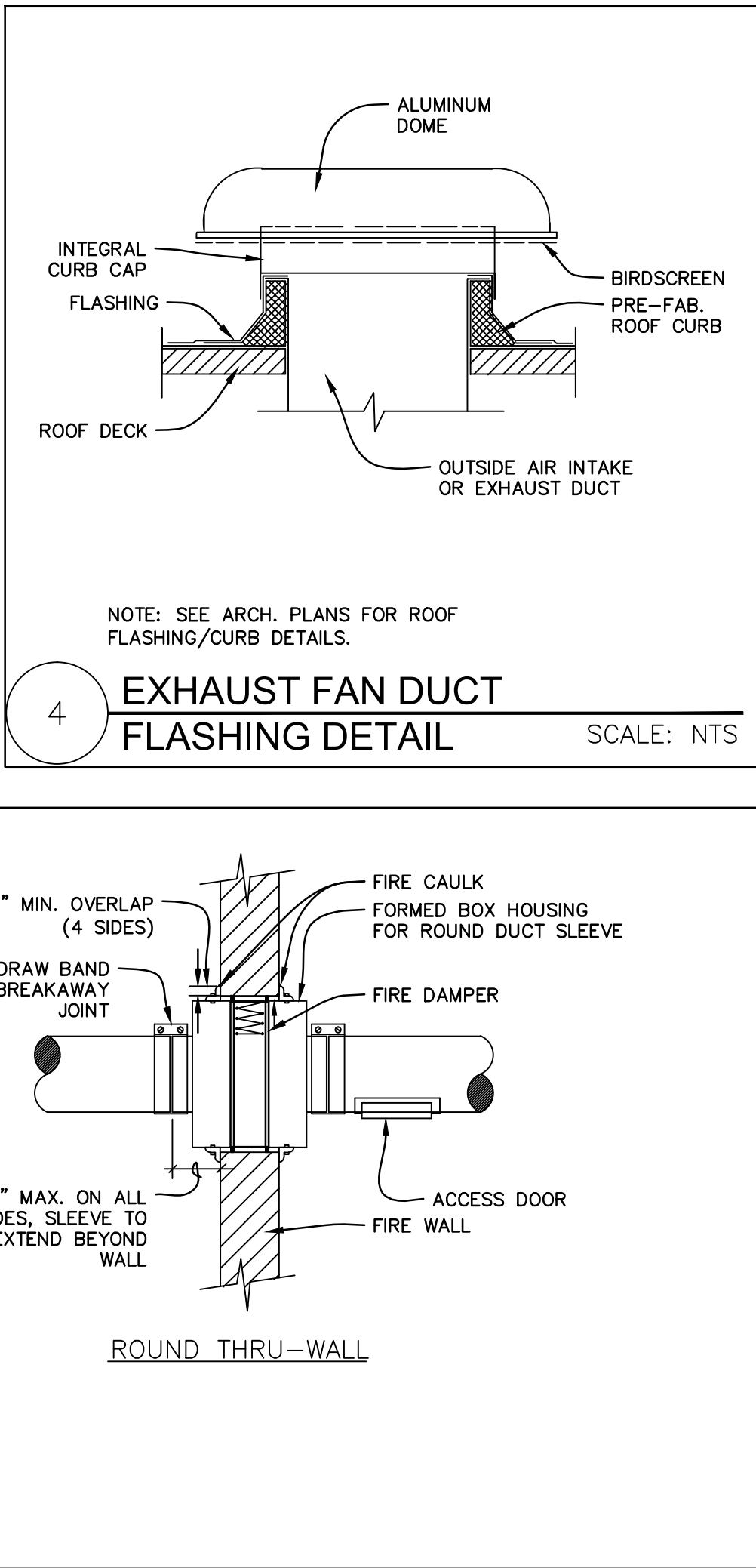
4 EXHAUST FAN DUCT FLASHING DETAIL SCALE: NTS



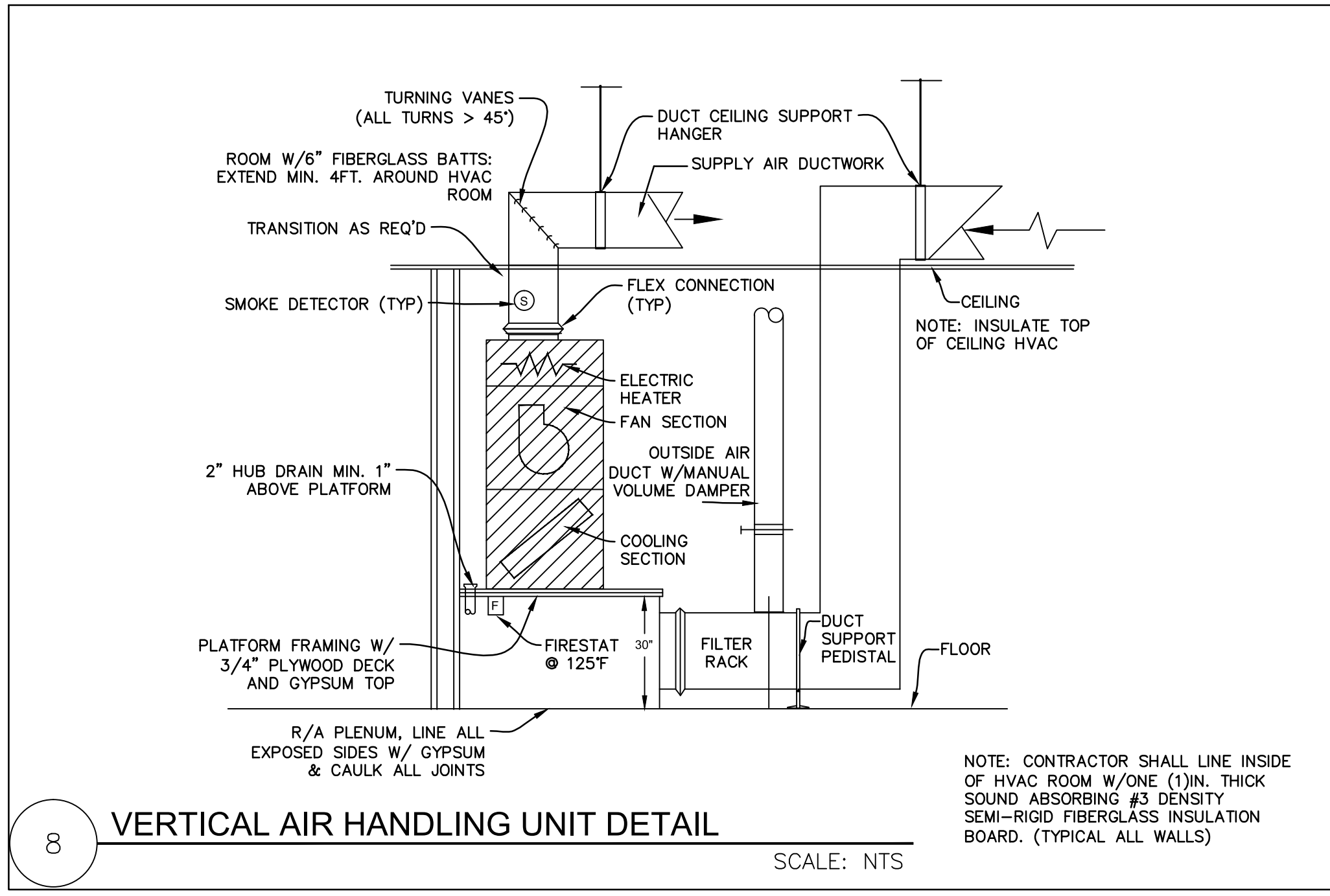
5 HORIZONTAL AIR HANDLING UNIT DETAIL SCALE: NTS



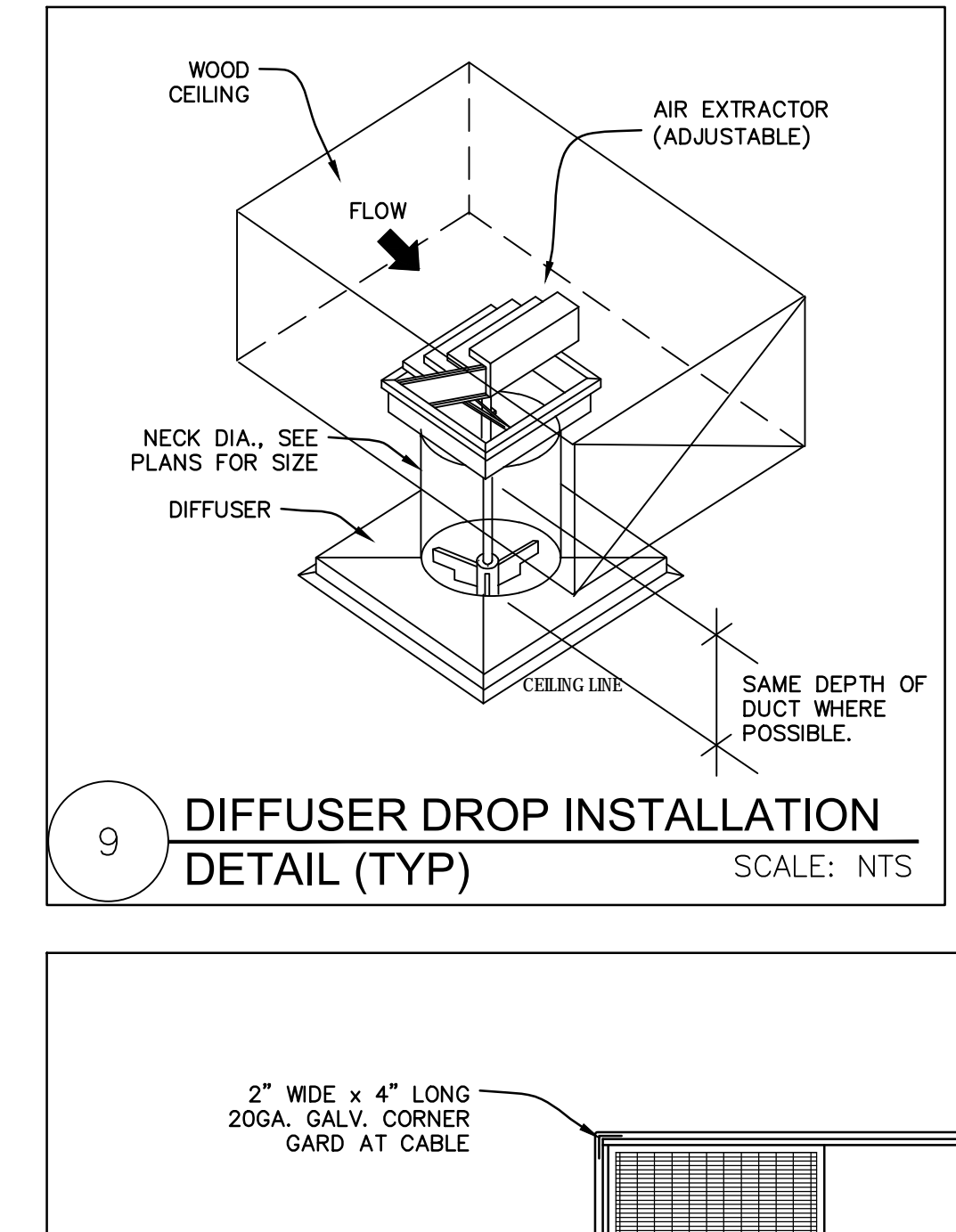
6 TYPICAL FIRE DAMPERS DETAIL SCALE: NTS



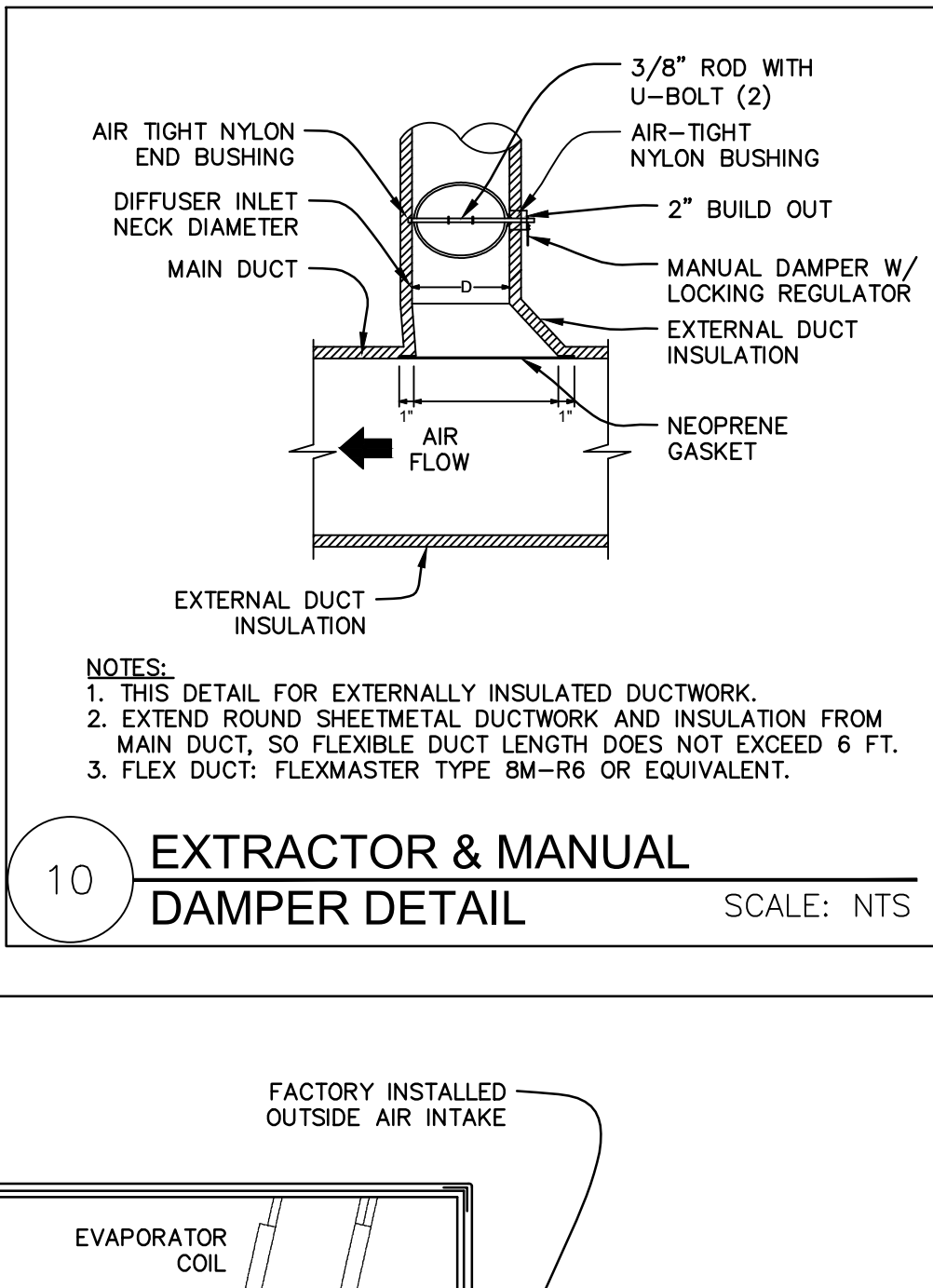
7 TYPICAL DUCT SUPPORT DETAIL SCALE: NTS



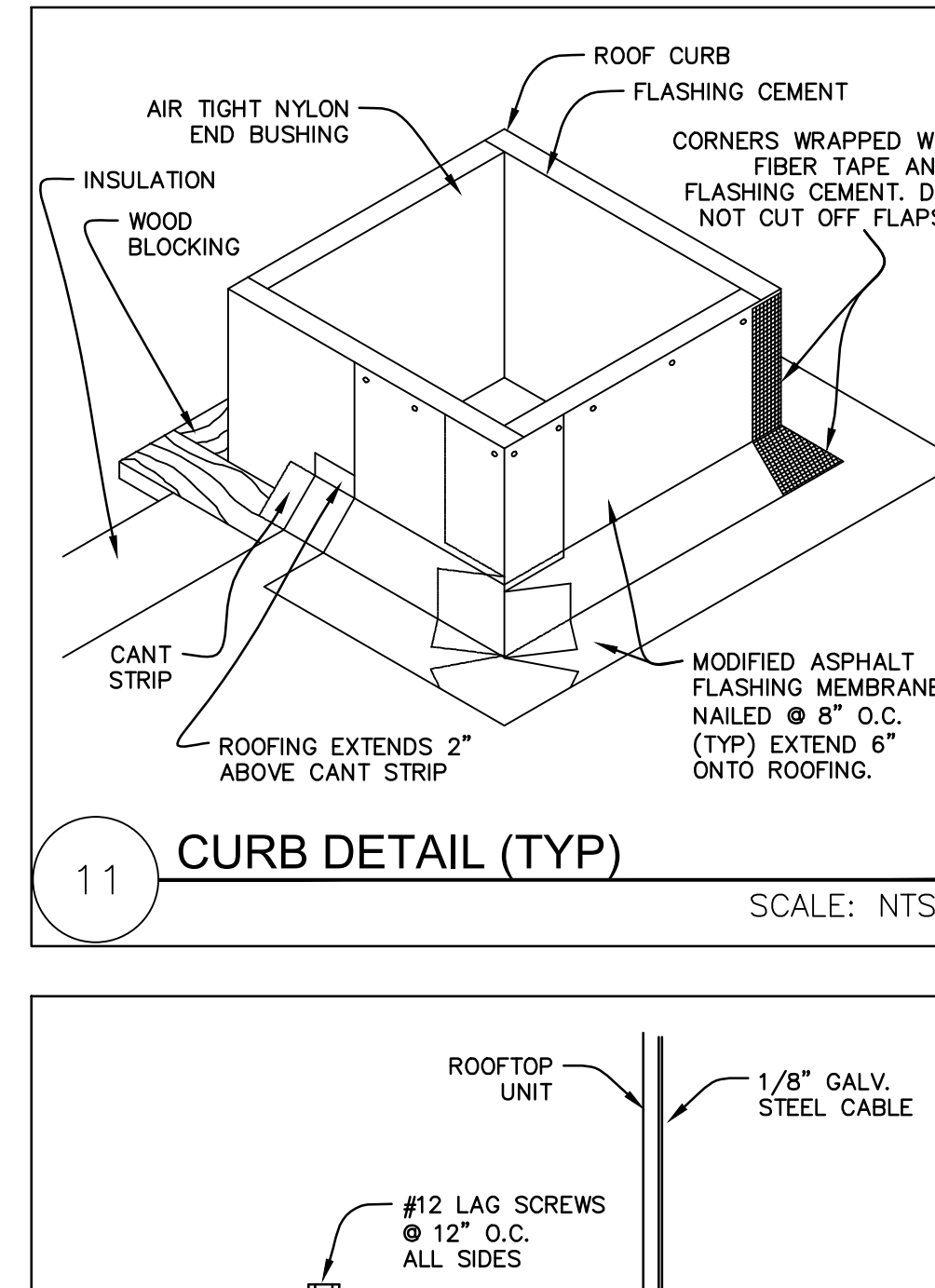
8 VERTICAL AIR HANDLING UNIT DETAIL SCALE: NTS



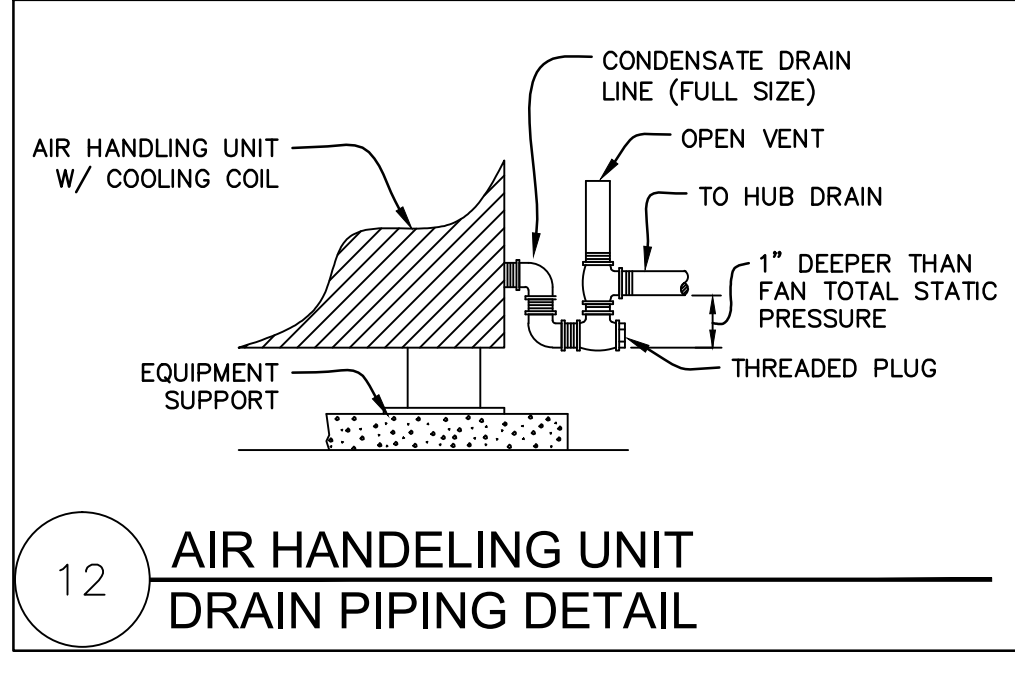
9 DIFFUSER DROP INSTALLATION DETAIL (TYP) SCALE: NTS



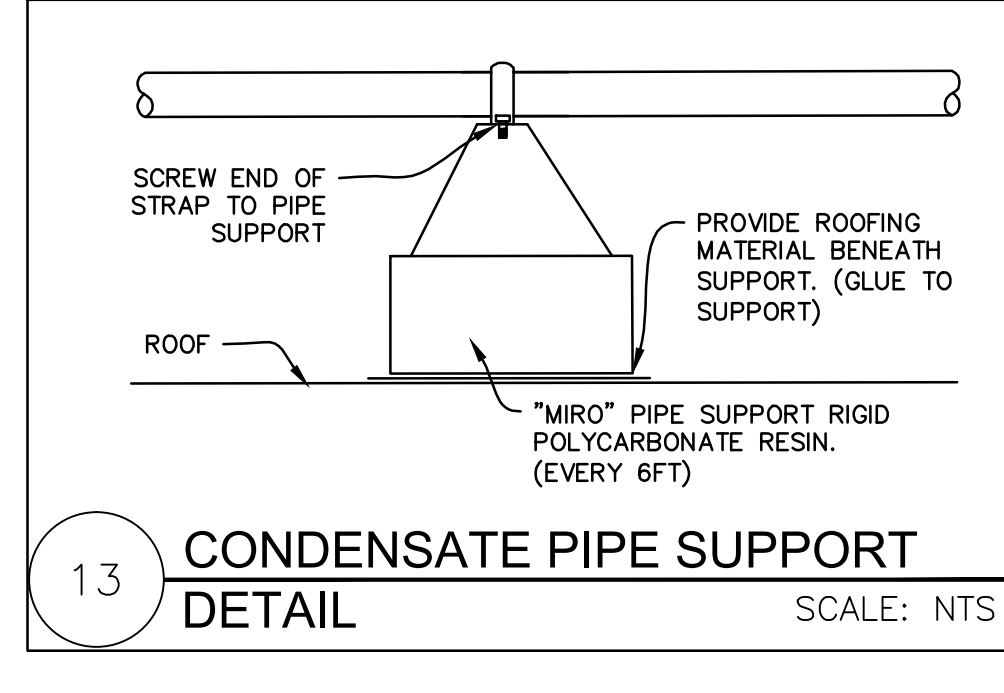
10 EXTRACTOR & MANUAL DAMPER DETAIL SCALE: NTS



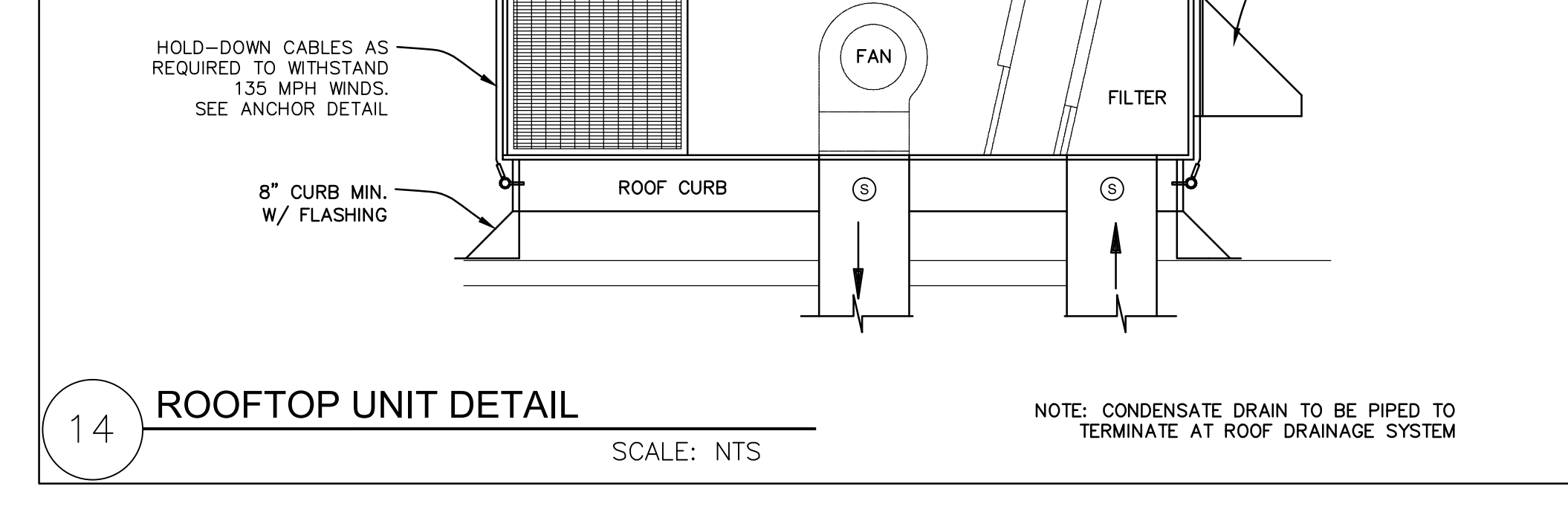
11 CURB DETAIL (TYP) SCALE: NTS



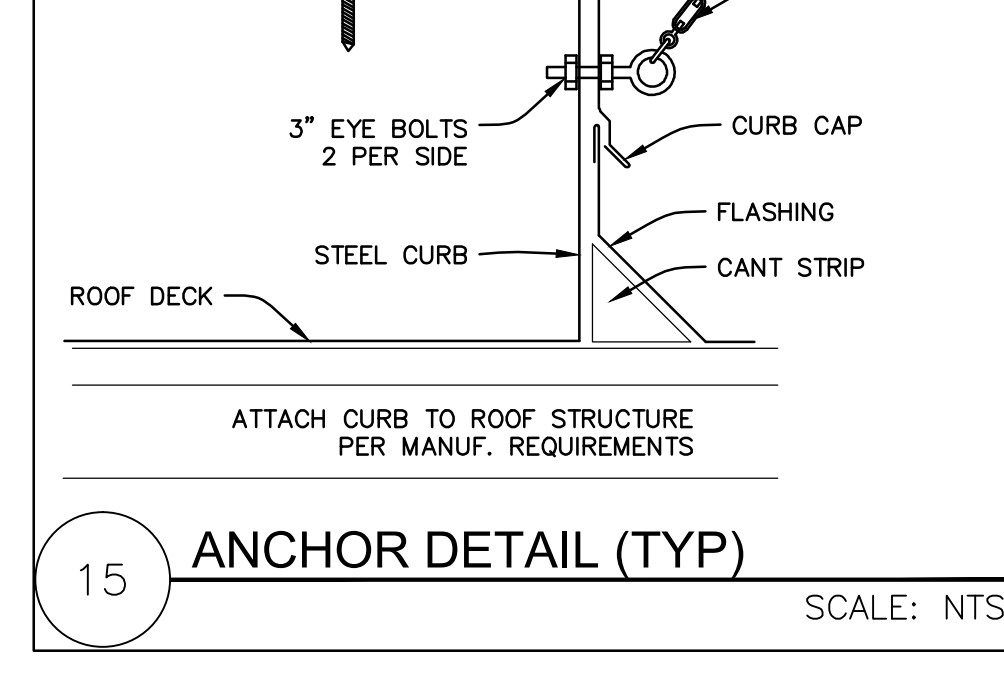
12 AIR HANDLING UNIT DRAIN PIPING DETAIL SCALE: NTS



13 CONDENSATE PIPE SUPPORT DETAIL SCALE: NTS



14 ROOFTOP UNIT DETAIL SCALE: NTS

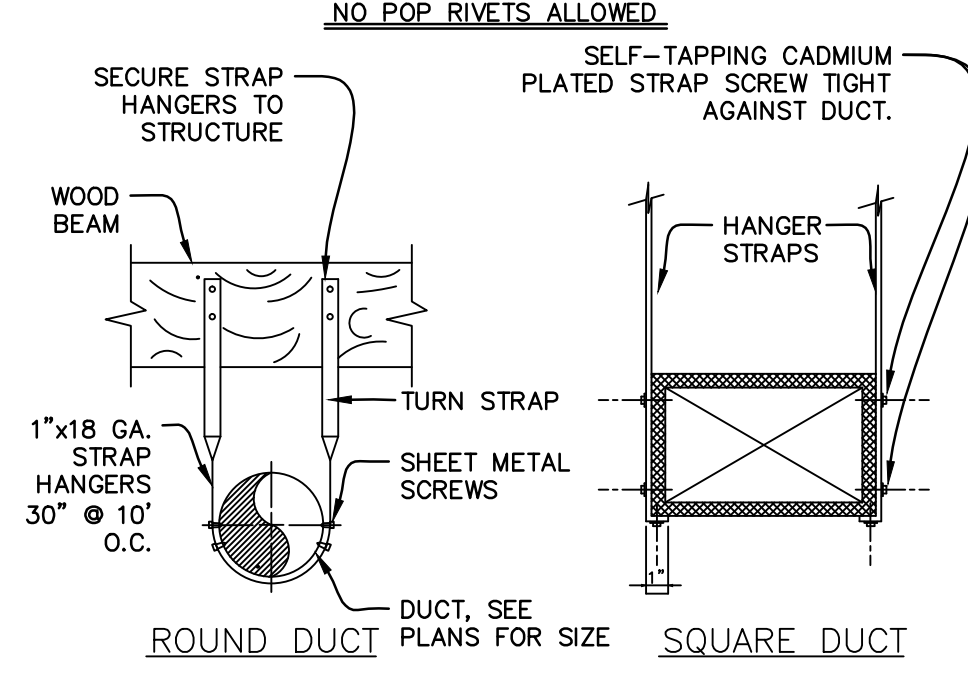


15 ANCHOR DETAIL (TYP) SCALE: NTS

HANGER SIZING

MAX. SIZE	HANGER	HOR. SUPPORT ANGLE	MAX. SPACING
30"	1"x18" GA. STRIP	1 1/2"x1 1/2"x 1/8"	10'-0"
36"	1/2" ROUND ROD	2" x 2" x 1/8"	8'-0"
48"	1/2" ROUND ROD	2" x 2" x 1/8"	8'-0"
60"	3/8" ROUND ROD	2" x 2" x 1/8"	8'-0"
84"	3/8" ROUND ROD	2" x 2" x 1/8"	8'-0"

NOTES:
 1. DUCT SHALL EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
 2. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 30'-0"
 3. SAG FOR FLEX DUCT SHALL NOT EXCEED 1/2" PER FOOT OF SUPPORT SPACING.



16 TYPICAL FIRE DAMPERS DETAIL SCALE: NTS

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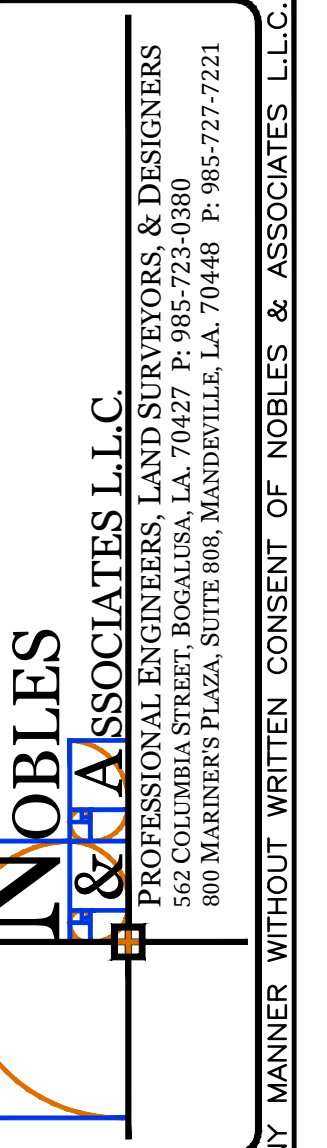
M103
 Sheet 1 of 1

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HVAC SPECIFICATIONS

1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ETC., REQUIRED FOR THE COMPLETE INSTALLATION OF THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS DESIGNATED ON THE DRAWINGS, INCLUDING ALL NECESSARY PARTS, ACCESSORIES, ETC., REQUIRED BY STATE OR LOCAL CODES OR TO SATISFACTORILY COMPLETE THE INSTALLATION.
2. UNLESS NOTED OTHERWISE, ALL WORK SHOWN ON THE MECHANICAL DRAWINGS SHALL BE COMPLETED BY CONTRACTOR. ALL PLANS RELATING TO WORK UNDER THIS DIVISION OF THE SPECIFICATIONS ARE INTENDED AS DESIGN ONLY AND INDICATE THE GENERAL SCOPE OF WORK TO BE COMPLETED. THEY ARE NOT SHOP DRAWINGS AND SHOULD NOT BE USED AS SUCH; THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND, EXCEPT WHERE DIMENSIONS ARE SHOWN, ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF PIPES, DUCTWORK, OUTLETS, FIXTURES, OR EQUIPMENT. REFER TO BUILDING AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. AUXILIARY PIPING, ELECTRIC CONNECTIONS, ETC., RECOMMENDED BY THE MANUFACTURER OR REQUIRED FOR PROPER OPERATION SHALL BE FURNISHED AND INSTALLED AS NEEDED. A COPY OF THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS SHALL BE MAINTAINED IN THE JOB SUPERINTENDENT'S OFFICE AND SHALL BE AVAILABLE TO THE ENGINEER'S REPRESENTATIVE ALL TIMES.
4. RECTANGULAR AND ROUND SHEET METAL DUCTWORK SHALL BE G90 GALVANIZED STEEL AND CONSTRUCTED PER APPLICABLE SMACNA STANDARDS. LONGITUDINAL SEAMS AND TRANSVERSE JOINTS SHALL BE SEALED USING UNITED MCGILL "DUCT SEALER" 3% LEAKAGE PER ASHRAE. MAX. FLEXIBLE DUCT CONNECTORS SHALL HAVE SEAMLESS OUTSIDE JACKET VAPOR BARRIER, 1"x1#/CU.FT. INSULATION AND SOLID LINER. ROUND INSULATED FLEXIBLE DUCT CONNECTOR USED FOR RUNOUTS TO DIFFUSERS SHALL BE LIMITED TO LENGTHS PERMITTED BY CODE.
5. INSULATE ALL RECTANGULAR OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR DUCTWORK WITH 1" THICK, 2# DENSITY DUCT LINER EQUAL TO FIBERGLASS. TRAVERSE DUCT JOINTS SHALL BE SEALED WITH MASTIC OR MASTIC PLUS TAPE. ROUND DUCT SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 3/4# DENSITY DUCT WRAP EQUAL TO FIBERGLASS TYPE FRK. SEAL ALL JOINTS AIRTIGHT.
6. CONTRACTOR SHALL FURNISH AND INSTALL ALL STARTERS, DISCONNECTS AND CONTROL DEVICES FOR ALL H.V.A.C. EQUIPMENT. ELECTRICAL CONTRACTOR WILL FURNISH ALL POWER WIRING. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING WHICH SHALL BE INSTALLED IN CONDUIT.
7. GENERAL CONTRACTOR SHALL PROVIDE PENETRATIONS IN FLOORS AND EXTERIOR WALLS AS REQUIRED FOR INSTALLATION OF H.V.A.C. EQUIPMENT, PIPING OR DUCTWORK.
8. CONDENSATE DRAIN PIPE SHALL BE SCH. 40 P.V.C. INSULATED WITH 1/2" ARMAFLEX, OR EQUAL INSULATION. MIN. PIPE SIZE SHALL BE 1 1/4". CONDENSATE DRAINS OVER 25' IN LENGTH ARE CLASSIFIED AS INDIRECT WASTE SYSTEM AND SHALL BE TRAPPED AND VENTED IN ACCORDANCE WITH LOCAL CODES AND REQUIREMENTS. CONDENSATE DRAIN PIPING SHALL TERMINATE AT CONNECTION TO OPEN HUB WASTE RECEPTOR WITH AN AIR GAP FITTING OR WITH AN AIR GAP EQUAL TO TWICE THE SIZE OF THE CONDENSATE DRAIN PIPE.
9. UNOCCUPIED AMBIENT NOISE LEVEL FOR H.V.A.C. SYSTEM SHALL BE NO MORE THAN 25 db AS MEASURED ON AN "A" WEIGHTED SCALE.
10. COMPLY WITH ALL SEISMIC BRACING REQUIREMENTS OF THE LATEST ADOPTED INTERNATIONAL BUILDING CODE. SEISMIC BRACING DEVICES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION. CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL ENGINEER TO DESIGN SEISMIC RESTRAINTS AS REQUIRED. SHOP DRAWINGS SHALL BEAR SEAL OF A PROFESSIONAL ENGINEER, LICENSED IN STATE, WITH MIN. FIVE YEARS EXPERIENCE IN DESIGN OF SEISMIC BRACING SYSTEMS. SEISMIC DRAWINGS SHALL BE SUBMITTED TO LOCAL CODE ENFORCEMENT FOR APPROVAL PRIOR TO INSTALLATION.
11. AIR DISTRIBUTION SHALL BE EQUAL TO KRUEGER, SQUARE CEILING OUTLETS SHALL BE 1400 (D.D.) KRUEGER EGG-5 (CRAR AND CEAR). PROVIDE OPPOSED BLADE DAMPERS. ALL ALUMINUM CONSTRUCTION. 25 DB MAXIMUM SOUND GENERATION.
12. CONTRACTOR SHALL ENSURE THAT COMPLETED WORK IS CORRECT, PRESENTABLE, APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH THE SPECIFICATIONS. PAINT EXPOSED DUCTWORK INSIDE THE BUILDING PER ARCHITECT.
13. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES REGARDING THE LOCATION AND SIZE OF PIPES, EQUIPMENT, FIXTURES, CONDUIT, DUCTS, OPENINGS, SWITCHES, OUTLETS, ETC., TO AVOID CONFLICTS AND DELAYS. ANY MODIFICATION/RELOCATION OF DUCTWORK, PIPING, OR EQUIPMENT REQUIRED TO AVOID CONFLICTS BECAUSE OF FAILED COMMUNICATION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER.
14. THE OWNER MAY CHANGE THE LOCATION OF ANY ITEM OR EQUIPMENT FIVE FEET AND ANY PIPING, DUCTWORK, CONDUIT, ETC., TEN FEET IN ANY DIRECTION WITHOUT EXTRA CHARGE, PROVIDED SUCH CHANGES ARE MADE PRIOR TO INSTALLATION OF MECHANICAL EQUIPMENT AND DO NOT INTERFERE WITH STRUCTURAL COMPONENTS.
15. REFERENCES TO CONTRACTORS IN SPECIFICATIONS AND DRAWINGS SHALL REFER TO THE RESPECTIVE TRADE CONTRACTOR PERFORMING THAT PORTION OF THE WORK.
16. SHOULD THERE BE ANY DISCREPANCIES OR A QUESTION OF INTENT, REFER THE MATTER TO THE ENGINEER FOR A DECISION BEFORE ORDERING ANY EQUIPMENT OR MATERIALS, OR BEFORE STARTING ANY RELATED WORK.
17. WHERE WORK CONNECTS TO THAT OF ANOTHER TRADE OR TO PIPING OR EQUIPMENT IN PLACE, FIELD MEASUREMENTS SHALL BE MADE TO MAKE CONNECTING WORK COME TRUE AND LINE UP WITH THE ITEM BEING CONNECTED.
18. ITEMS AND ACCESSORIES OR DEVICES REQUIRED FOR THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR FOR SUCH SYSTEM, WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS OR DRAWINGS.
19. CAREFULLY CHECK AND COORDINATE THE LOCATION AND LEVEL OF PIPES, DUCTS, ETC., RUN PRELIMINARY LEVELS AND CHECK WITH OTHER CONTRACTORS SO THAT CONFLICTS IN ALL LOCATIONS MAY BE AVOIDED.
20. ALL MATERIALS SHALL BE NEW AND OF THE QUALITY SPECIFIED. APPARATUS AND MATERIALS USED IN THIS WORK WHICH ARE SUBJECT TO APPROVAL BY UNDERWRITERS (UL) SHALL BEAR THE UNDERWRITERS LABEL OF APPROVAL.
21. MANUFACTURER'S TRADE NAMES OR CATALOG NUMBERS USED IN THESE SPECIFICATIONS AND INDICATED ON THE DRAWINGS ARE NOT TO BE CONSIDERED AS PROPRIETARY. THEIR PURPOSE IS TO DENOTE TYPE, SIZE, QUALITY, AND DESIGN OF EQUIPMENT.
22. WHERE EQUIPMENT IS SPECIFIED AS "OR EQUAL", IT SHALL MEAN EQUAL IN THE OPINION OF THE ENGINEER.
23. THE CONTRACTOR IS FREE TO OFFER FOR CONSIDERATION SUBSTITUTE ITEMS OF EQUIVALENT TYPE, SIZE, QUALITY, AND PERFORMANCE AFTER THE CONTRACT IS SIGNED; HOWEVER, HE SHALL BE PREPARED TO FURNISH SPECIFIED MATERIALS AND EQUIPMENT WHERE SUBSTITUTIONS ARE REJECTED ON HIS ORIGINAL SUBMITTAL.
24. SHOULD ANY PART OF THE PLANS OR SPECIFICATIONS BE FOUND TO BE IN CONFLICT WITH APPLICABLE CODES OR ORDINANCES, THIS CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO SUBMITTING HIS BID.
25. A LICENSED CONTRACTOR SHALL MAKE APPLICATION TO THE LOCAL BUILDING CODE ENFORCEMENT OFFICIALS TO OBTAIN INSPECTION PERMITS REQUIRED, AND SHALL PAY NECESSARY FEES FOR SAME. HE SHALL, AT THE CONCLUSION OF THE INSTALLATION, SECURE A CERTIFICATE OF INSPECTION, PROPERLY SIGNED BY THE CONTROLLING BUILDING CODE ENFORCEMENT DEPARTMENT, WHICH SHALL STATE THAT RULES HAVE BEEN COMPLIED WITH AND THAT THE WORK IS SATISFACTORY. AT PROJECT COMPLETION, THIS CONTRACTOR SHALL SUBMIT CERTIFICATE OF INSPECTION FOR DELIVER TO THE OWNER.
26. MATERIALS AND EQUIPMENT SHALL BE PROVIDED BY FIRMS REGULARLY ENGAGED IN THE MANUFACTURE OF MECHANICAL EQUIPMENT OF TYPES AND SIZES SPECIFIED HEREIN WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN FIVE YEARS.
27. OPERATING MAINTENANCE AND SERVICE MANUALS: BEFORE COMPLETING WORK AND BEFORE REQUESTING FINAL PAYMENT, THIS CONTRACTOR SHALL COMPIL AND DELIVER FOUR INDEXED, HARD COVER, THREE-RING BINDERS CONTAINING:
 - I. NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF THIS CONTRACTOR AND ALL EQUIPMENT SUPPLIERS, SYSTEMS INSTALLATION SUBCONTRACTORS, AND SERVICE COMPANIES.
 - II. MECHANICAL INSTALLATION DRAWINGS (AS-BUILT) WITH ITEMS IDENTIFIED BY NAME/MARK/NUMBER.
 - III. MANUFACTURER'S DESCRIPTIVE LITERATURE, FINAL APPROVED SHOP DRAWINGS, PERFORMANCE DATA, CURVES, RATINGS, DIAGRAMS, SPARE PARTS AND REPLACEMENT PARTS LISTS, INSTALLATION AND OPERATING INSTRUCTIONS, MAINTENANCE AND SERVICE MANUALS FOR:
 - A. EACH ITEM OF EQUIPMENT
 - B. VALVES AND SPECIALTIES
 - C. CONTROLS
 - D. SPECIAL ITEMS
 - IV. WHERE DIAGRAMS ARE TOO LARGE FOR THE BINDER, ARRANGE MANILA POCKETS WITH REINFORCED HOLES TO HOLD FOLDED DRAWINGS.
 - V. STEP-BY-STEP PROCEDURES FOR STARTING AND STOPPING THE SYSTEMS, NORMAL OPERATION AND MAINTENANCE INSTRUCTIONS.
28. CONTRACTOR SHALL DESIGNATE AND MAINTAIN A COMPLETE UP-TO-DATE SET OF CONTRACT DRAWINGS, PRINTS, AND SPECIFICATION FOR RECORDING CHANGES MAKE TO THE DRAWINGS AND SPECIFICATIONS DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THESE DRAWINGS SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE ENGINEER, ARCHITECT, AND THE OWNER. DRAWINGS SHALL BE MAINTAINED IN A NEAT CONDITION AND SHALL BE KEPT AND CLEARLY SHOW ANY CHANGES FROM ORIGINAL CONTRACT DRAWINGS AND SPECIFICATIONS.
29. CONTRACTOR SHALL PREPARE, UPON COMPLETION OF THE PROJECT, FINAL RECORD DRAWINGS ON REPRODUCIBLE DRAFTING MEDIA TO THE SAME SCALE AS THE CONTRACT DRAWINGS SHOWING THE CHANGES MADE TO THE DRAWINGS DURING THE CONSTRUCTION PHASE OF THIS PROJECT, AND THE DRAWINGS SHALL SHOW EXACT INSTALLED LOCATIONS AND SIZES OF PIPING, DUCTWORK AND EQUIPMENT INSTALLED BY THIS CONTRACTOR. UNDERGROUND WORK SHALL BE DIMENSIONED FROM A REFERENCE SUCH AS A WALL OR COLUMN CENTER LINE. MARKED UP PRINTS OF CONTRACT DRAWINGS WILL NOT BE ACCEPTED AS FINAL RECORD DRAWINGS.
30. SYSTEMS INCLUDED UNDER THIS DIVISION OF THE SPECIFICATIONS WILL NOT BE ACCEPTED UNTIL ACCEPTANCE TESTS HAVE BEEN MADE. FINAL TESTING AND BALANCING WORK IS COMPLETE, AND THE INSTALLATION IS OPERATING PROPERLY.
31. UPON COMPLETION OF ALL WORK AND RELATED TESTS, AND AT SUCH TIME AS DESIGNATED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE NECESSARY SKILLED PERSONNEL TO OPERATE THE ENTIRE SYSTEM FOR A PERIOD OF ONE DAY OF EIGHT (8) HOURS. DURING THIS TIME, THIS CONTRACTOR SHALL FULLY INSTRUCT THE OWNER'S REPRESENTATIVES IN THE COMPLETE OPERATION, ADJUSTMENT, AND MAINTENANCE OF THE EQUIPMENT AND SYSTEMS.
32. THE CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. THIS GUARANTEE SHALL BE PRESENTED TO THE OWNER IN WRITING AND ALL DEFECTS DEVELOPING WITHIN THIS STATED PERIOD SHALL BE REMEDIATED TO THE FULL SATISFACTION OF THE OWNER BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
33. THE ONE-YEAR GUARANTEE FOR ITEMS OR EQUIPMENT THAT THE OWNER ELECTS TO BEGIN USING FOR HIS BENEFIT BEFORE THE COMPLETION OF THE ENTIRE PROJECT SHALL BEGIN AT THE DATE OF "BENEFICIAL USE" BY THE OWNER. THIS DATE OF "BENEFICIAL USE" SHALL BE ESTABLISHED JOINTLY BY THE ENGINEER, ARCHITECT, CONTRACTOR AND THE OWNER. THE CONTRACTOR SHALL PREPARE A LETTER STATING THAT THE OWNER HAS REQUESTED "BENEFICIAL USE" AND SHALL BE SIGNED BY THE OWNER, THIS CONTRACTOR AND THE ARCHITECT.
34. IN ORDER TO MAINTAIN THE INDOOR AIR QUALITY FOR THIS FACILITY, THE OWNER SHOULD PROVIDE A CONTINUING MAINTENANCE PROGRAM FOR THE HEATING, VENTILATING AND AIR CONDITIONING (H.V.A.C.) SYSTEMS. THE H.V.A.C. SYSTEMS FOR THIS FACILITY WERE DESIGNED TO MEET OR EXCEED THE INDOOR AIR QUALITY REQUIREMENTS OF THE 2012 IMC.
35. SHOULD SPACE USAGE OR OCCUPANCY CHANGE IN THE FUTURE, IT IS THE OWNER'S RESPONSIBILITY TO MAINTAIN COMPLIANCE WITH APPLICABLE VENTILATION AND/OR INDOOR AIR QUALITY STANDARDS.
36. FUEL GAS PLUMBING SHALL BE SCHEDULE 40 BLACK STEEL. UNDERGROUND GAS PIPE SHALL BE COATED AND WRAPPED TO PROVIDE CATHODIC PROTECTION PER LOCAL CODE AUTHORITY AMENDMENT TO THE STANDARD GAS CODE, GAS PIPE IN CONCEALED SPACES REGARDLESS OF PRESSURE SHALL BE WELDED. ALL PIPE HANDLING PRESSURE ABOVE 1 PSI SHALL BE WELDED. GAS PIPING ABOVE GROUND SHALL BE BONDED TO A GROUNDING ELECTRODES SYSTEM. MINIMUM GAS PIPE SIZE SHALL BE 1" WHERE CONNECTION TO EQUIPMENT IS LESS THAN 1". THE PIPE SIZE CAN BE REDUCED TO 1/2" WITH MAX. LENGTH TO BE 1'-0". EACH CONNECTION TO GAS FIRED EQUIPMENT SHALL HAVE SHUT-OFF VALVE AND A UNION CONNECTION.
37. IONIZATION SMOKE DETECTORS SHALL BE PLACED IN SUPPLY AIR AND RETURN AIR DUCTWORK TO SHUT DOWN EQUIPMENT UPON DETECTION OF SMOKE. CONTRACTOR TO PROVIDE ALL WIRING FOR ALARM NOTIFICATION AND FAN SHUTDOWN. "TRUEALARM" SMOKE DETECTORS WITH HOUSING FOR STAND-ALONE OPERATION. PROVIDE SIMPLEX 4098-9842 CONTROL STATION FOR AUDIBLE AND VISIBLE ALARM IN NORMALLY OCCUPIED SPACE.
38. DRAWINGS ARE INTENDED AS DESIGN ONLY AND INDICATE THE GENERAL SCOPE OF WORK TO BE PERFORMED. THE PLANS DO NOT CONSTITUTE SHOP DRAWINGS AND SHOULD NOT BE USED AS SUCH. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF PIPES, DUCTWORK, OUTLETS, FIXTURES, OR EQUIPMENT. THE CONTRACTOR(S) AGREE TO CAREFULLY STUDY THE CONTRACT DOCUMENTS AND REPORT (IN WRITING) ANY DEFICIENCIES THE CONTRACTOR(S) MAY DISCOVER. THE CONTRACTOR FURTHER AGREES TO REQUIRE EACH SUBCONTRACTOR TO STUDY THE DOCUMENTS AND REPORT ANY DEFICIENCIES DISCOVERED. THE CONTRACTOR SHALL RESOLVE ALL REPORTED DEFICIENCIES REGARDING THE DIVISION-15 DESIGN WORK WITH THE CONTRACTOR'S OWN EMPLOYEES. IF DEFICIENCIES CANNOT BE RESOLVED BY THE DESIGN PROFESSIONAL AND THE CONTRACTOR(S) WITHOUT ADDITIONAL TIME OR ADDITIONAL EXPENSE, THE DESIGN PROFESSIONAL AND THE CONTRACTOR SHALL SO INFORM THE OWNER AND/OR THE ARCHITECTURAL DESIGN PROFESSIONAL IN WRITING. ANY WORK THAT IS PERFORMED RELATED TO THE EFFICIENCIES PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE DESIGN PROFESSIONAL, THE OWNER OR ARCHITECTURAL DESIGN PROFESSIONAL WILL BE DONE AT THE CONTRACTOR'S RISK. REFER TO BUILDING AND STRUCTURAL DRAWINGS FOR DIMENSIONS OF BUILDING SPACES.
39. HEATING/COOLING UNITS SHALL BE FURNISHED WITH PROGRAMMABLE REMOTE SENSING THERMOSTATS (24VOLT) WITH CLEAR PLASTIC COVERS. WHEN UNITS ARE IN THE UNOCCUPIED MODE, THE O.S.A. DAMPER SHALL CLOSE AND REMAIN CLOSED EVEN IF THE UNIT HAS TO RUN TO MAINTAIN UNOCCUPIED MODE TEMPERATURE SET POINT. S.A. FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES AND SHALL CYCLE AS REQUIRED DURING UNOCCUPIED TIMES. PROVIDE TEMPERATURE SENSORS.
40. WITHIN 21 DAYS FROM THE AWARD OF THE CONTRACT, CONTRACTOR(S) SHALL DELIVER EQUIPMENT SUBMITTALS TO THE DESIGN PROFESSIONAL FOR REVIEW. SUBMITTALS SHALL INCLUDE SEVEN COPIES WITH DESCRIPTIVE LITERATURE, CUTS, AND OPERATING DATA ON EACH ITEM OF EQUIPMENT. MATERIALS BEING SUPPLIED EITHER AS SPECIFIED OR AS AN EQUAL TO THOSE SPECIFIED. SUBMITTALS SHALL BE BOUND IN THREE-RING BINDERS AND SHALL INCLUDE A COVER SHEET FOR EACH ITEM LISTING, THE IDENTIFYING SYMBOL OR MARK, EQUIPMENT TYPE, CAPACITIES, STANDARD FEATURES, AND OPTIONS THAT ARE TO BE FURNISHED AS SPECIFIED. LISTING SHALL BE IN SIMILAR ORDER TO SCHEDULE ON DRAWINGS OR TO DESCRIPTION GIVEN IN SPECIFICATIONS. THREE COPIES OF THE FINAL REVIEWED SUBMITTAL SHALL BE RETAINED BY THE CONTRACTOR(S) FOR INSERTION TO THE OPERATING AND MAINTENANCE MANUALS FOR DELIVERY TO THE OWNER. SUBS SHALL FURNISH THE CONTRACTOR A LIST OF ALL ITEMS OF HVAC EQUIPMENT REQUIRING POWER, INTERLOCK AND CONTROL WIRING TO BE FURNISHED. THIS LISTING SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW.
41. SUBS SHALL EXAMINE SUBMITTAL DATA BEFORE PRESENTING THEM TO THE DESIGN PROFESSIONAL FOR REVIEW. CONTRACTORS SHALL INDICATE BY THEIR SIGNATURE AND DATE ON THE SUBMITTALS THAT THE SUBMITTALS COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND THAT THE EQUIPMENT THEY PROPOSE TO USE WILL FIT PROPERLY INTO THE SPACE PROVIDED WITH ADEQUATE CLEARANCE FOR SERVICE AND MAINTENANCE. THE DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS NOT PREVIOUSLY APPROVED IN WRITING. THE DESIGN PROFESSIONAL'S REVIEW AND APPROVAL OF SUBMITTALS AND SHOP DRAWINGS IS ONLY FOR THE LIMITED PURPOSE OF CHECKING THE SAME FOR CONFORMITY WITH DESIGN CONCEPT OF THE WORK AS ESTABLISHED IN THE CONTRACT DOCUMENTS. MATTERS SUCH AS DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, COORDINATION WITH OTHER TRADES, QUANTITIES, PERFORMANCE OF EQUIPMENT AND SYSTEMS DESIGNED BY CONTRACTOR(S), TECHNIQUES, SEQUENCE OF OPERATION, PROCEDURES, SAFETY PRECAUTIONS, ETC., SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR(S). THE DESIGN PROFESSIONAL'S REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT, OR IN WHICH IT FUNCTIONS.
42. THE DESIGN PROFESSIONAL'S SERVICES DO NOT INCLUDE CONSTRUCTION PHASE SERVICE. THE DESIGN PROFESSIONAL AND/OR THE OWNER WILL PROVIDE THE DESIGN CONSTRUCTION PHASE SERVICES. THE CONTRACTOR SHALL BE AWARE THAT THE DESIGN PROFESSIONAL AND/OR THE OWNER ARE SOLELY RESPONSIBLE FOR THE INTERPRETATIONS OF THE CONTRACT DOCUMENTS AND OBSERVATIONS OF THE WORK OF CONTRACTORS MUST BE AUTHORIZED AND APPROVED BY THE DESIGN PROFESSIONAL AND/OR THE OWNER BEFORE THE DEVIATION CAN BE INCORPORATED INTO THIS PROJECT. CONTRACTORS SHALL BE HELD LIABLE FOR ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS, RECORDED OR UNRECORDED, THAT HAVE NOT BEEN AUTHORIZED AND APPROVED BY THE DESIGN PROFESSIONAL AND/OR THE OWNER.
43. BEFORE BALANCING THE SYSTEM, THE FOLLOWING STEPS SHOULD BE PERFORMED:
 - 43.1. REVIEW DRAWINGS AND SPECIFICATIONS, AND BECOME THOROUGHLY ACQUAINTED WITH THE DESIGN INTENT. OBTAIN COPIES OF APPROVED SHOP DRAWINGS OF ALL AIR HANDLING EQUIPMENT, OUTLETS (SUPPLY, RETURN, AND EXHAUST), AND TEMPERATURE CONTROL DIAGRAMS INCLUDING PERFORMANCE CURVES. COMPARE DESIGN REQUIREMENTS WITH SHOP DRAWING CAPACITIES. COMPARE DESIGN TO INSTALLED EQUIPMENT AND FIELD INSTALLATION. WALK THE SYSTEM FROM THE AIR-HANDLING EQUIPMENT TO TERMINAL UNITS TO DETERMINE VARIATIONS OF INSTALLATION FROM DESIGN. CHECK DAMPERS (BOTH VOLUME AND FIRE) IN OPEN AND LOCKED POSITIONS AND TEMPERATURE CONTROLS FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS.
 - 43.2. PREPARE TEST REPORT FOR BOTH FANS AND OUTLETS - OBTAIN MANUFACTURER'S OUTLET FACTORS AND RECOMMENDED TEST PROCEDURE. A SUMMATION OF REQUIRED OUTLET VOLUMES PERMITS A CROSS-CHECKING WITH REQUIRED FAN VOLUMES. DETERMINE THE BEST LOCATION IN THE MAIN AND BRANCH DUCTWORK FOR THE MOST ACCURATE DUCT TRAVERSES. PLACE ALL OUTLET DAMPERS IN THE FULL OPEN POSITION. PREPARE SCHEMATIC DIAGRAMS OF SYSTEM AS-BUILT DUCTWORK AND PIPING LAYOUTS TO FACILITATE REPORTING. CHECK FILTERS FOR CLEANLINESS AND PROPER INSTALLATION (NO AIR BYPASS). IF SPECIFICATIONS REQUIRE, ESTABLISH PROCEDURE TO SIMULATE DIRTY FILTERS. FOR VARIABLE VOLUME AIR SYSTEMS, DEVELOP A PLAN TO SIMULATE DIVERSITY.
 - 43.3. FANS (SUPPLY, RETURN, AND EXHAUST) MUST BE OPERATIONAL PRIOR TO CHECKING THE FOLLOWING ITEMS:
 - MOTOR AMPERAGE AND VOLTAGE TO GUARD AGAINST OVERLOAD.
 - FAN ROTATION AND FUNCTIONALITY OF STATIC PRESSURE LIMIT SWITCH.
 - MANUAL DAMPERS FOR PROPER POSITION.
 - AIR AND WATER CONTROLS FOR PROPER TEMPERATURE CONTROL.
 - AIR LEAKS IN THE CASING AND IN THE SCARFING AROUND COILS AND FILTER FRAMES
 - NOTE THE LOCATIONS WHERE PIPING ENTERS THE CASING TO ENSURE THAT ESCUTCHEONS ARE CORRECTLY DO NOT RELY ON PIPE INSULATION TO SEAL THESE OPENINGS BECAUSE THE INSULATION MAY SHRINK.
 - IN PREFABRICATED UNITS, CHECK THAT PANEL-FASTENING HOLES ARE FILLED TO PREVENT WHISTLING.
44. PENETRATIONS THROUGH FIRE RATED WALL, CEILINGS AND FLOORS. INSULATED AND UNINSULATED PIPE PENETRATING FIRE RATED WALLS SHALL HAVE A VOID AROUND PIPE FILLED WITH "3M" FIRE PROTECTION PRODUCTS "CP 25W+CAULK", APPLY FIRE RATED CAULK PER "3M" SYSTEM REQUIREMENTS. PIPE SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL. CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE "UL FIRE RESISTANCE DIRECTORY" CONTROL NUMBER SELECTED FOR FIRE STOP APPLICATION.
45. INSULATED AND UNINSULATED DUCTS, LESS THAN 100 SQUARE INCHES IN CROSS SECTION AREA, PENETRATING 1 HOUR FIRE RATED WALLS SHALL HAVE VOID AROUND DUCT, FILLED WITH "3M" FIRE PROTECTION PRODUCTS "CP 25W+CAULK", APPLY FIRE RATED CAULK PER "3M" SYSTEM REQUIREMENTS BEFORE APPLYING CAULK, THE VOID AROUND DUCT SHALL BE FILLED WITH MINERAL WOOL BATT INSULATION, AFTER CAULK IS APPLIED. 16 GAUGE RETAINING ANGLES SHALL BE ATTACHED TO THE DUCT AND THE WALL, ANGLE TO EXTEND ALONG WALL 1" AND ALONG DUCT 2". DUCT SHALL EXTEND 5' BOTH SIDES OF WALL. CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, THE "UL FIRE RESISTANCE DIRECTORY" CONTROL NUMBER SELECTED FOR FIRE STOP APPLICATION.
46. DUCTS LARGER THAN 100 SQUARE INCHES CROSS SECTION AREA, PENETRATING FIRE RATED WALLS SHALL PENETRATE THE RATED WALL THROUGH AN APPROVED UL LABELED FIRE DAMPER, THE VOID AT WALL AROUND FIRE DAMPER FRAME SHALL BE FIRE STOPPED SIMILAR TO ABOVE REQUIREMENTS. CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, THE UL FIRE DAMPER ASSEMBLY AND THE "UL FIRE RESISTANCE DIRECTORY" CONTROL NUMBER SELECTED FOR FIRE STOP APPLICATION.
47. ALL ROOF MOUNTED EQUIPMENT AND ROOF CAPS SHALL BE SECURED IN SUCH A MANNER AS TO WITHSTAND A 110 MPH WIND LOAD. SUBMIT MOUNTING METHODS AND COMPONENTS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATIONS.
48. INSTALL ADJUSTABLE DAMPERS IN DUCTWORK AHEAD OF DIFFUSERS. EACH DIFFUSER SHALL HAVE ONE DAMPER TO BALANCE AIR FLOW OF SYSTEM
49. SEE UNIT SCHEDULE FOR UNIT DETAILS



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Rev. No.	Date	Description

ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

MECHANICAL NOTES

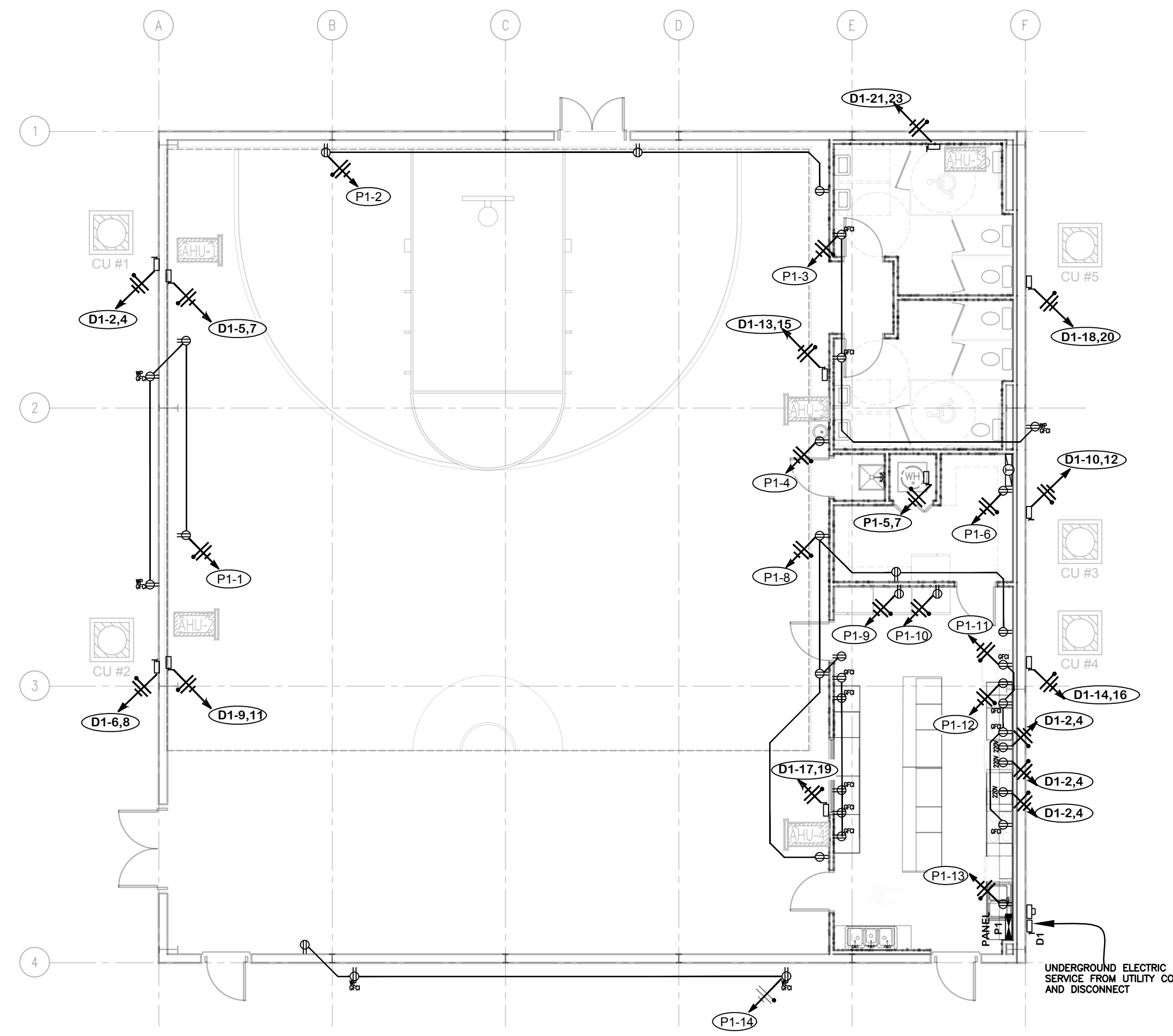
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SWL	GBN
Date	Rev.
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M104
Sheet 11 Of *

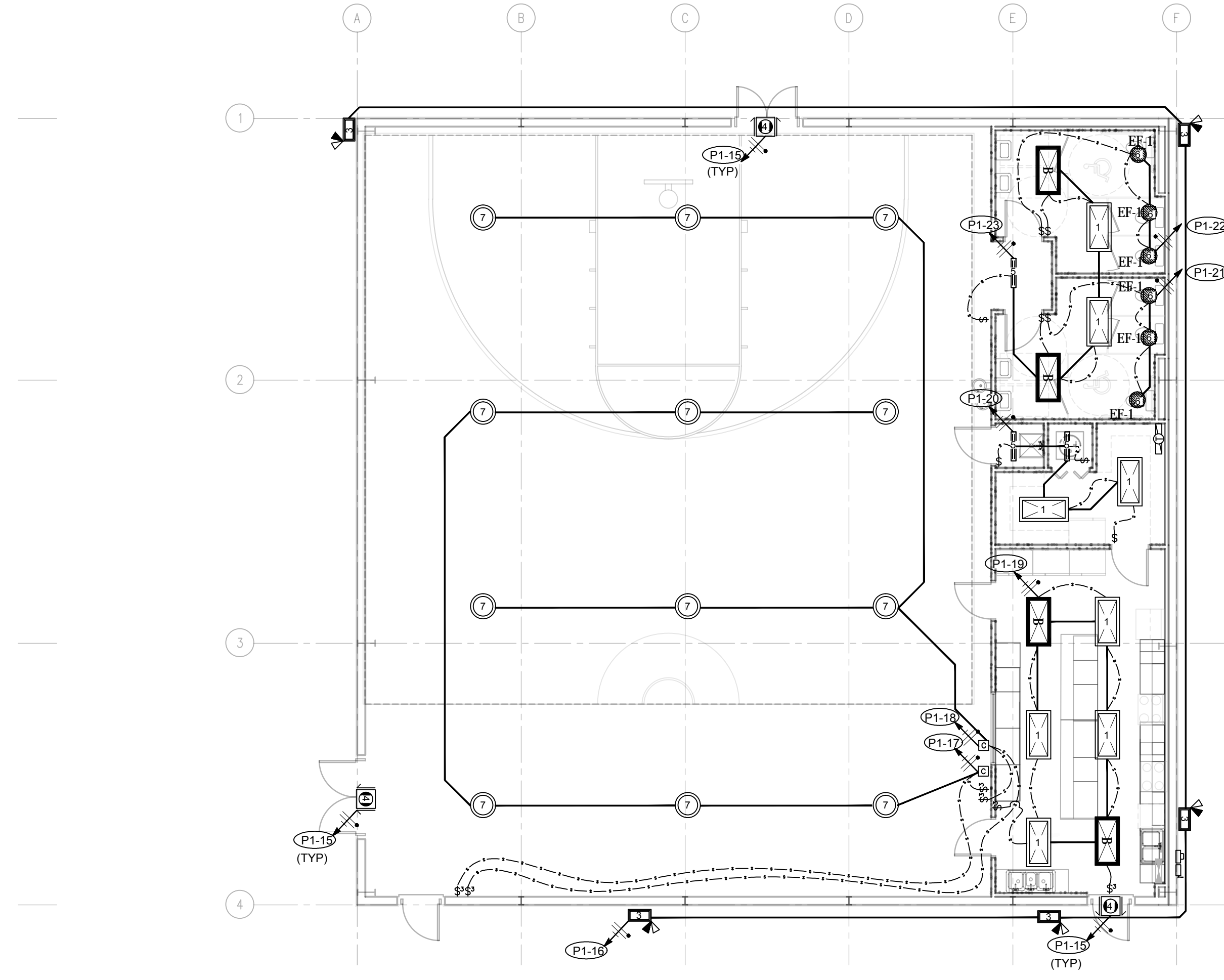
THESE DRAWINGS ARE THE SOLE PROPERTY OF NOBLES & ASSOCIATES L.L.C., AND ARE ISSUED AS INSTRUMENTS OF SERVICE. THESE DRAWINGS SHALL NOT BE COPIED, REPRODUCED OR USED IN ANY MANNER WITHOUT WRITTEN CONSENT OF NOBLES & ASSOCIATES L.L.C.

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1 LIGHTING PLAN

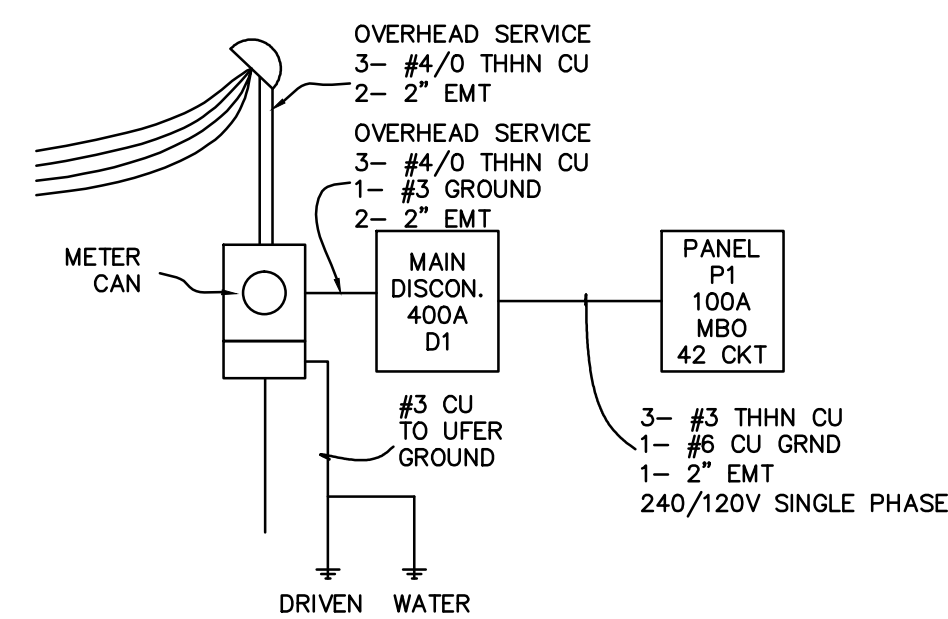
E101 SCALE: 3/16"=1'



2 POWER PLAN

E101 SCALE: 3/16"=1'

Table with 2 columns: SYMBOL and DESCRIPTION. Lists various electrical symbols and their corresponding descriptions, including exit signs, ceiling fans, switches, outlets, detectors, and lighting fixtures.



4 ELECTRICAL RISER

E101 SCALE: NTS

Table with 4 columns: #, BKR, CIRCUIT DESCRIPTION, and #. Lists circuit details for Panel D1, including circuit numbers, breaker types, and descriptions.

Table with 4 columns: PANEL, FEEDER, NUMBER OF CONDUITS, and FEEDER CONDUIT. Provides summary data for Panel P1, including voltage, phase, and load information.

Table with 4 columns: #, BKR, CIRCUIT DESCRIPTION, and #. Lists circuit details for Panel P1, including circuit numbers, breaker types, and descriptions.

3 PANEL SCHEDULE

E101 SCALE: NTS

LIGHTING FIXTURE SCHEDULE

Table with 5 columns: TYPE, MANUFACTURER, CATALOG NUMBER, LUMEN PACKAGE/LAMPS, and REMARKS. Lists specific lighting fixtures and their technical specifications.

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Table with 2 columns: Description and Date. A blank table for recording revisions.

ENGINEER OF RECORD

NAME GEORGE NOBLES

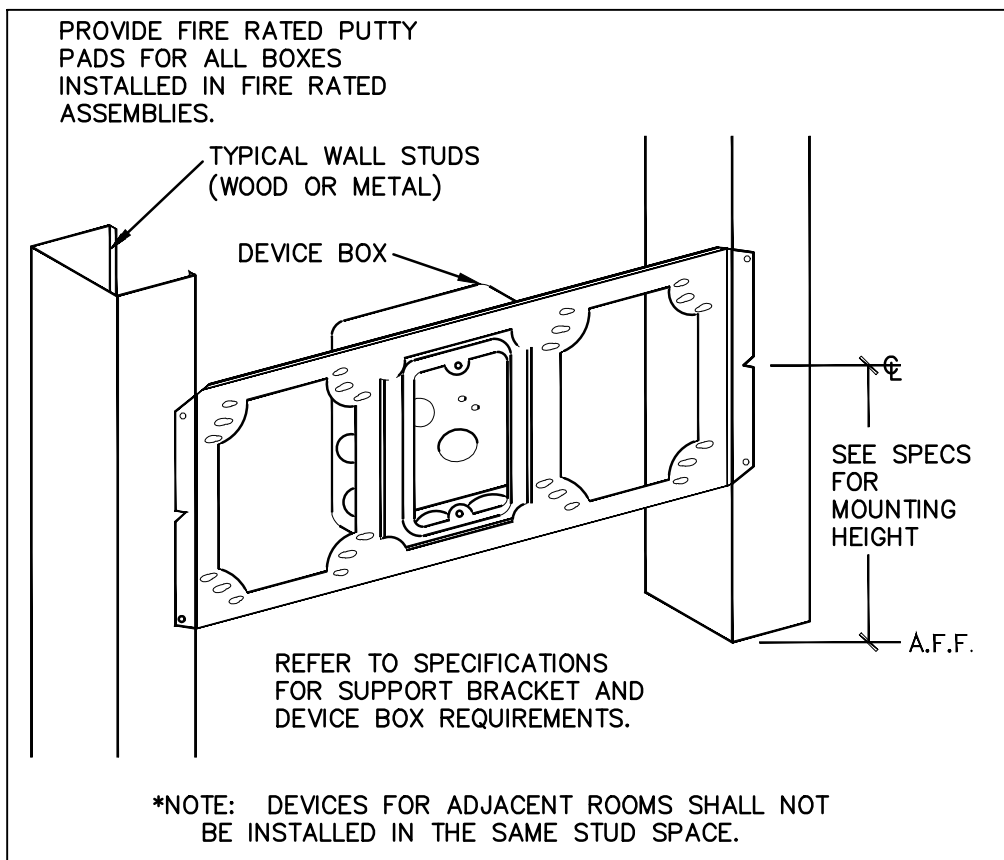
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POWER & LIGHTING PLAN

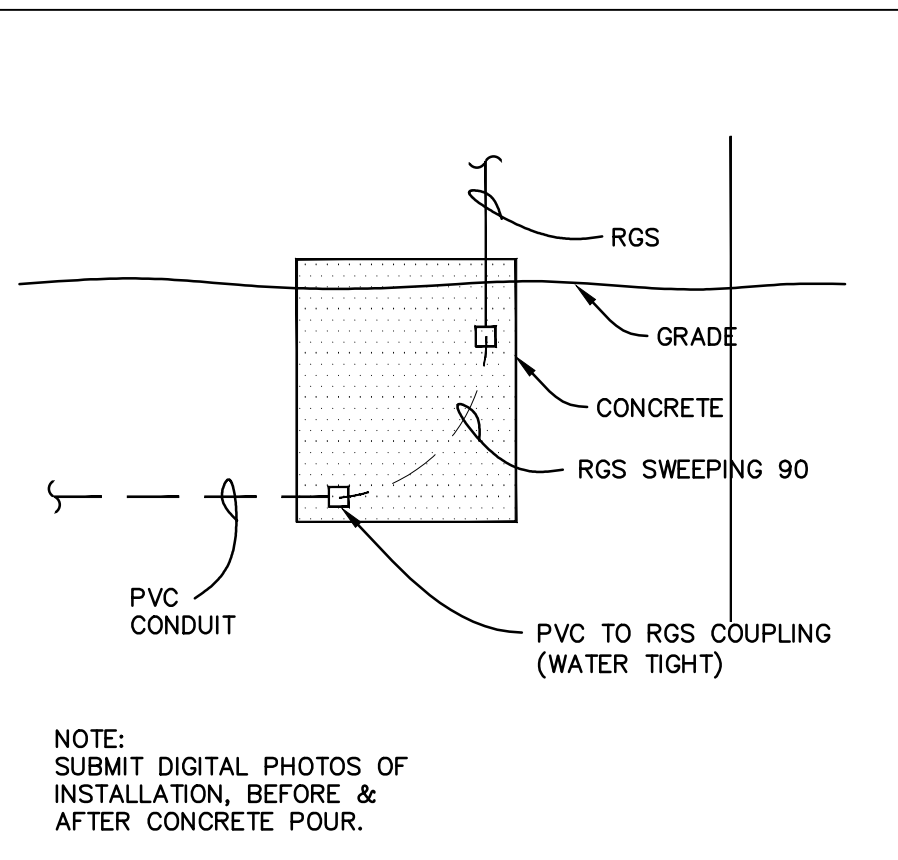
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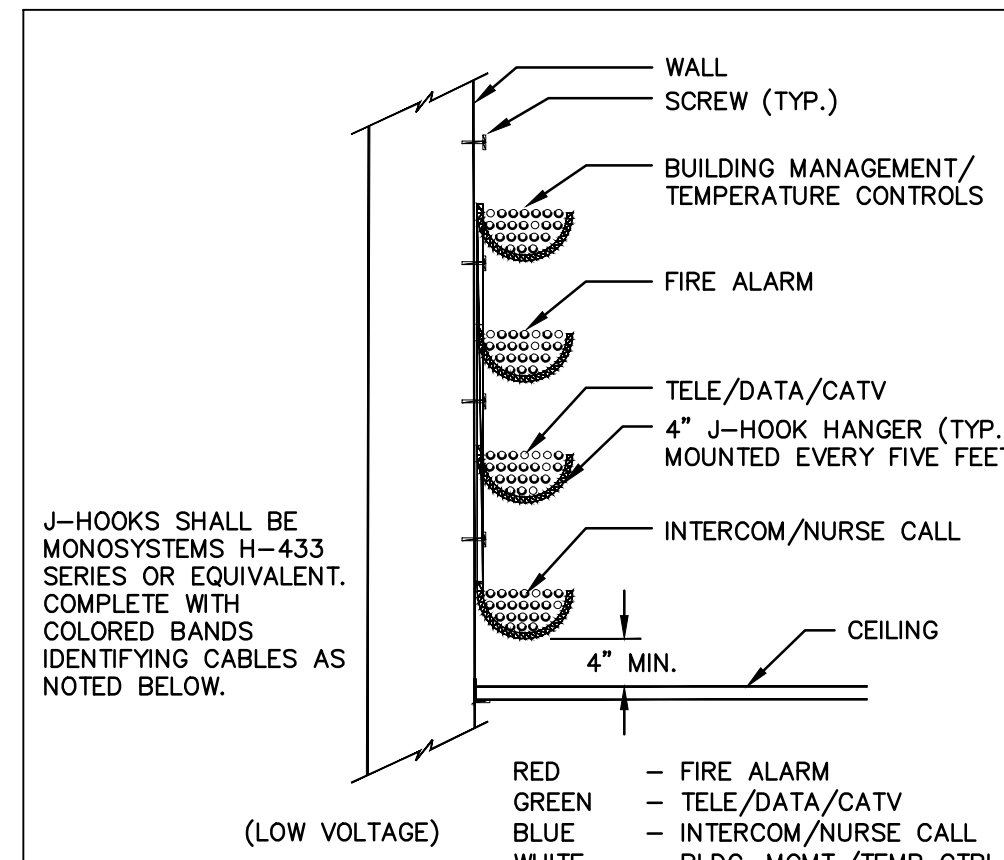
E101 Sheet 1 of 1



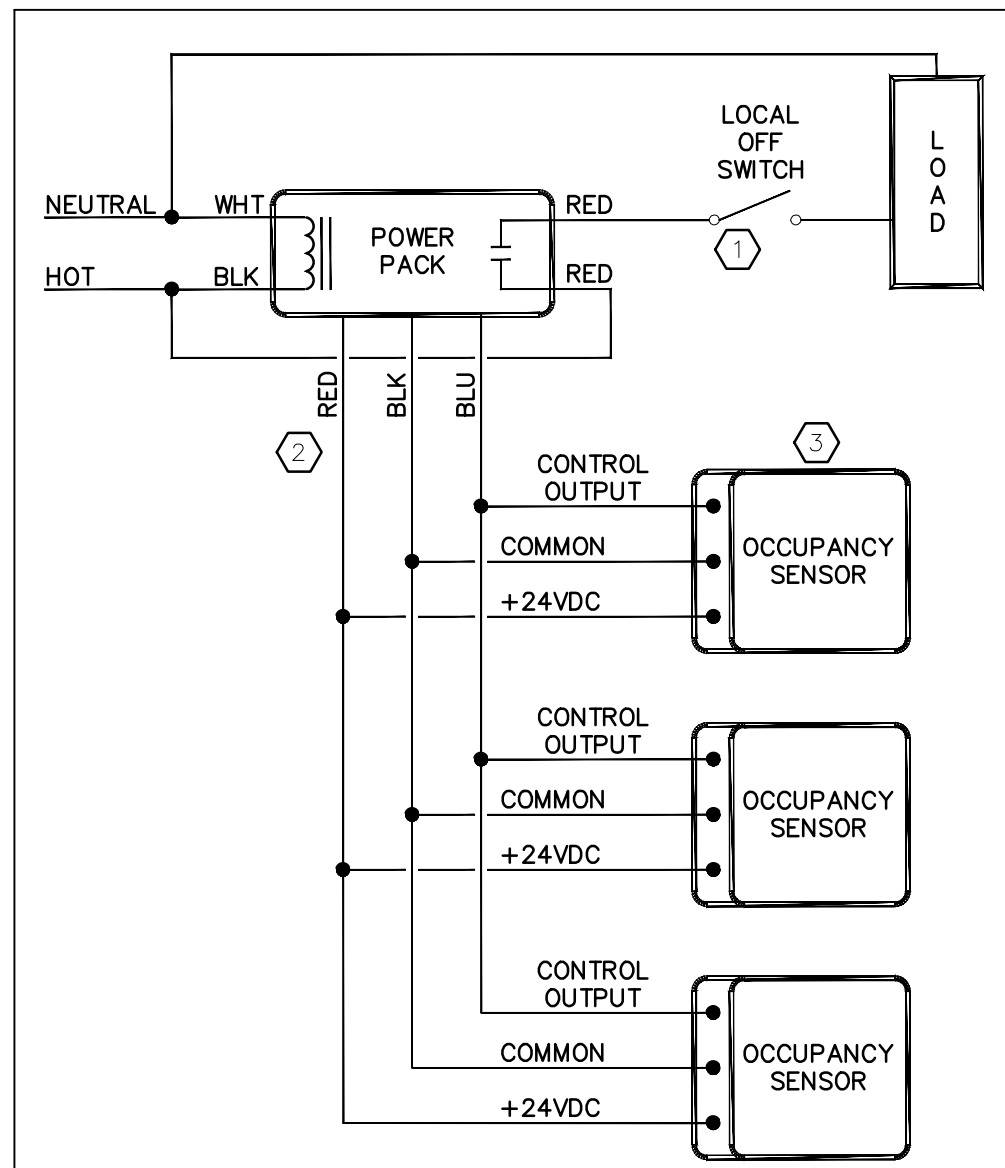
1 BOX MOUNTING BRACKET DETAIL
SCALE: NTS



2 TYPICAL UNDERGROUND STUB-UP DETAIL
SCALE: NTS



3 J-HOOK DETAIL FOR COMM. CABLES
SCALE: NTS



KEYNOTES:

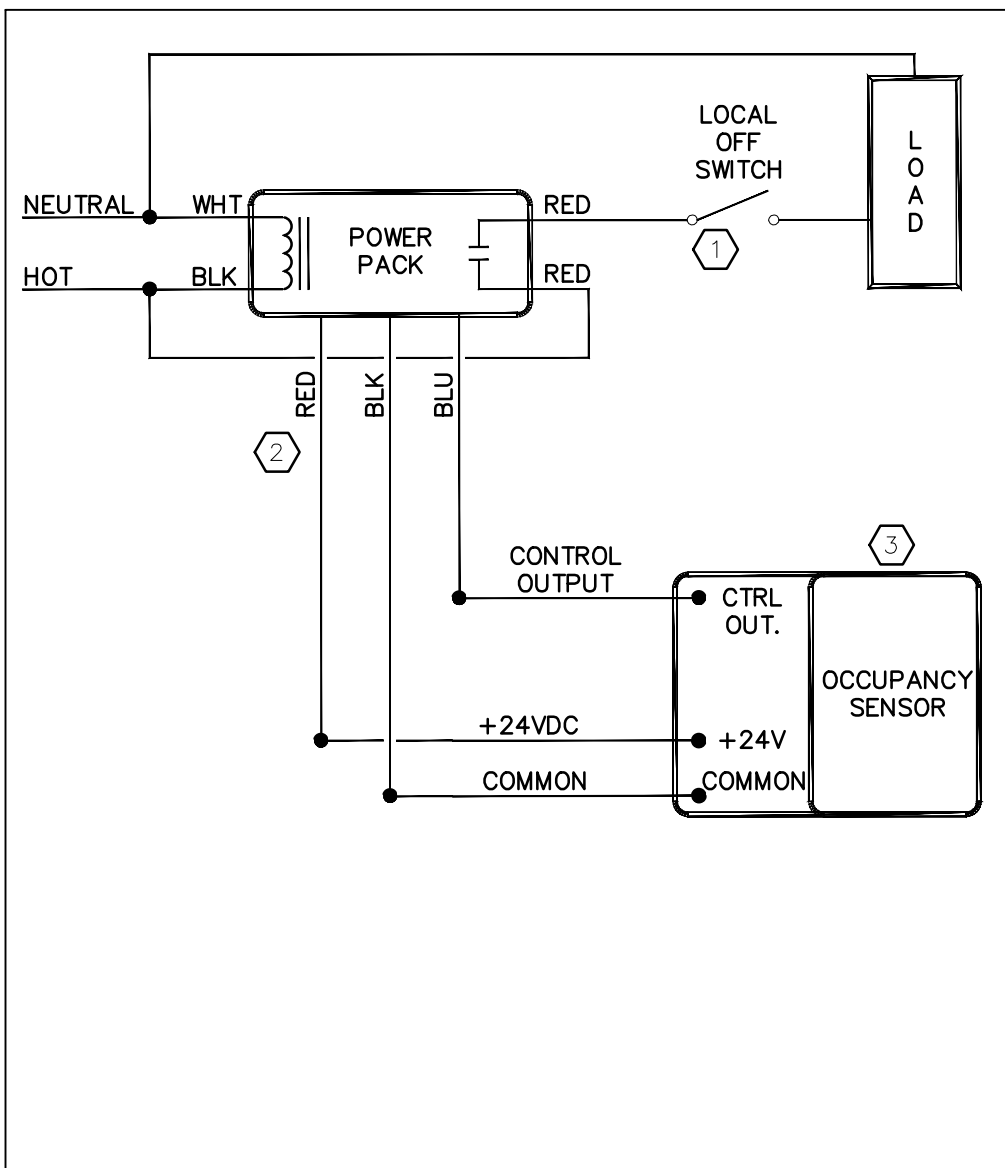
1 PROVIDE AND INSTALL LIGHTING TOGGLE SWITCH ON STRIKE SIDE OF DOOR.

2 COLOR DESIGNATIONS OF CONDUCTORS WILL VARY BY MANUFACTURER. CONTRACTOR SHALL OBTAIN LATEST WIRING DIAGRAMS FROM MANUFACTURERS USED. THIS WIRING DIAGRAM IS FOR DIAGRAMMATIC PURPOSES ONLY.

3 REFER TO SPECIFICATIONS FOR OCCUPANCY SENSOR REQUIREMENTS.

NOTE: TYPICAL FOR ROOMS WITH MULTIPLE CEILING MOUNTED OCCUPANCY SENSORS CONTROLLING LIGHTING LOAD.

7 MULTIPLE OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: NTS



KEYNOTES:

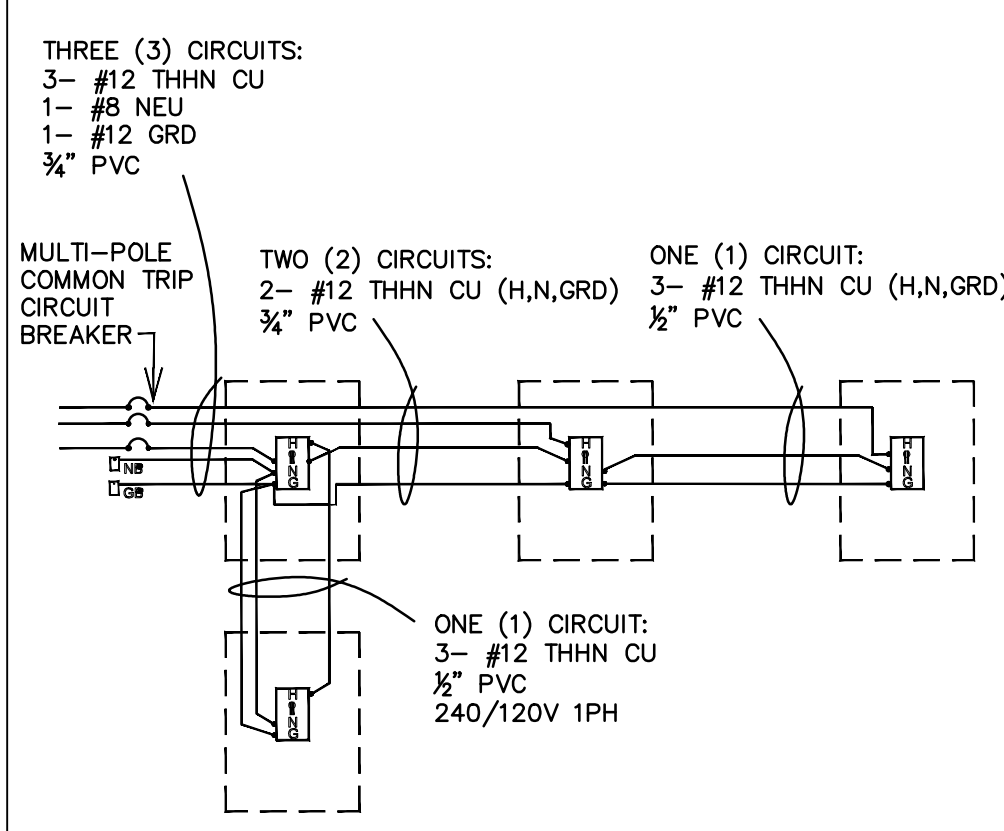
1 PROVIDE AND INSTALL LIGHTING TOGGLE SWITCH ON STRIKE SIDE OF DOOR.

2 COLOR DESIGNATIONS OF CONDUCTORS WILL VARY BY MANUFACTURER. CONTRACTOR SHALL OBTAIN LATEST WIRING DIAGRAMS FROM MANUFACTURERS USED. THIS WIRING DIAGRAM IS FOR DIAGRAMMATIC PURPOSES ONLY.

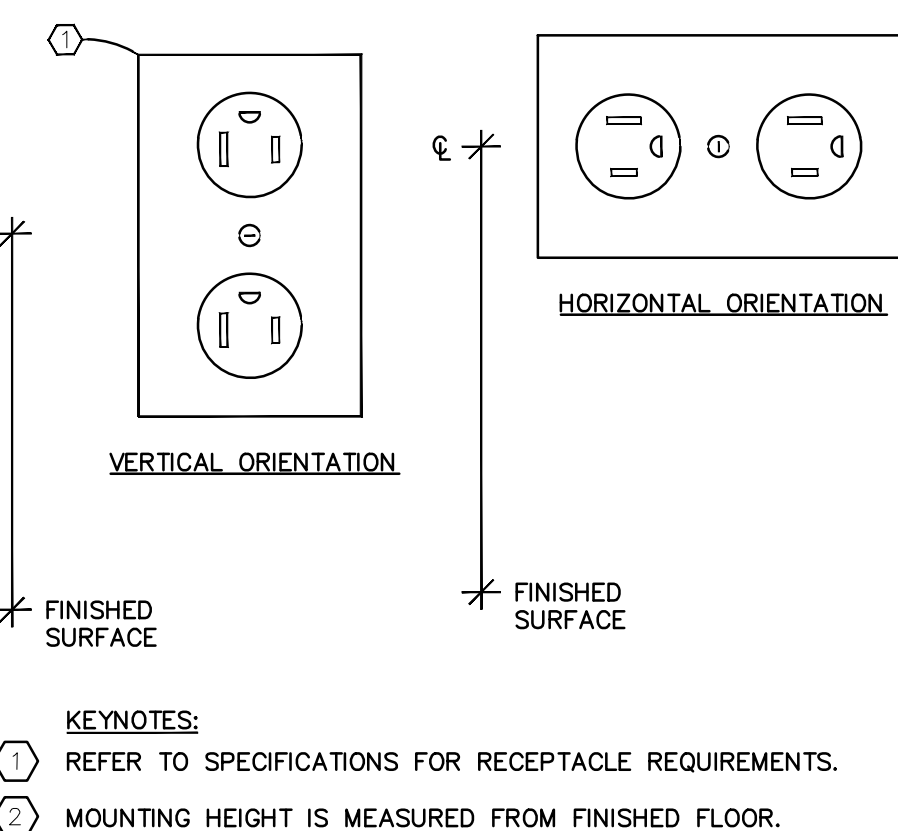
3 REFER TO SPECIFICATIONS FOR OCCUPANCY SENSOR REQUIREMENTS.

NOTE: TYPICAL FOR ROOMS WITH SINGLE CEILING MOUNTED OCCUPANCY SENSORS CONTROLLING LIGHTING LOAD.

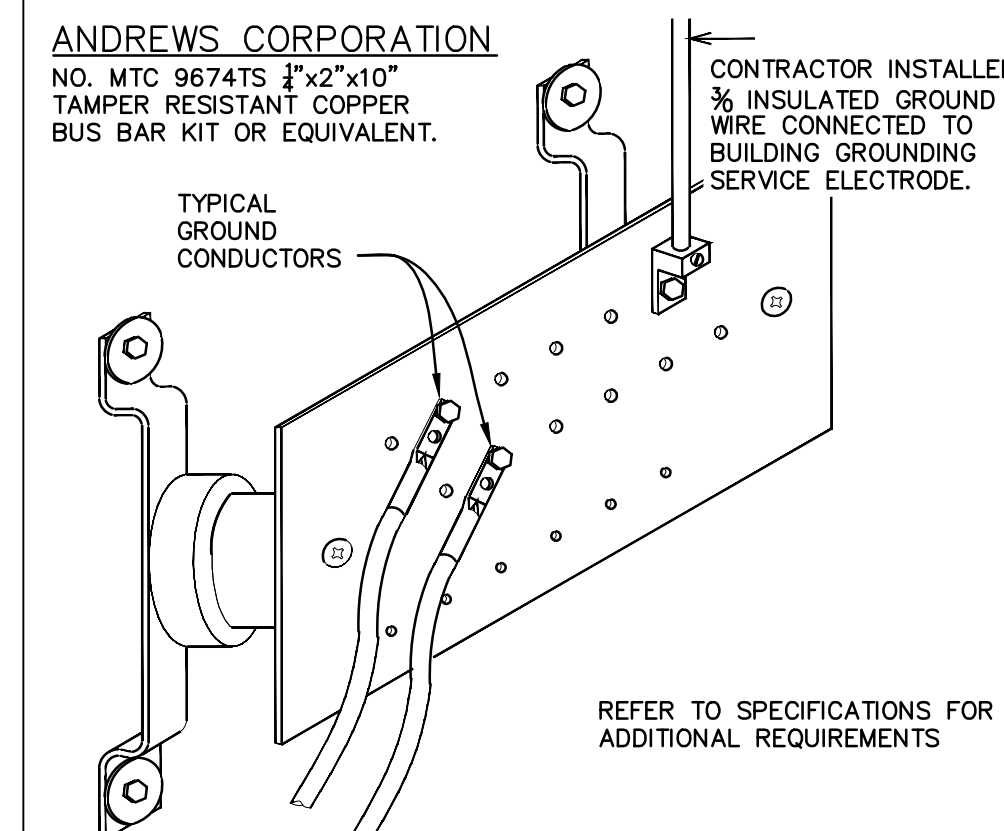
8 SINGLE OCCUPANCY SENSORS WIRING DIAGRAM
SCALE: NTS



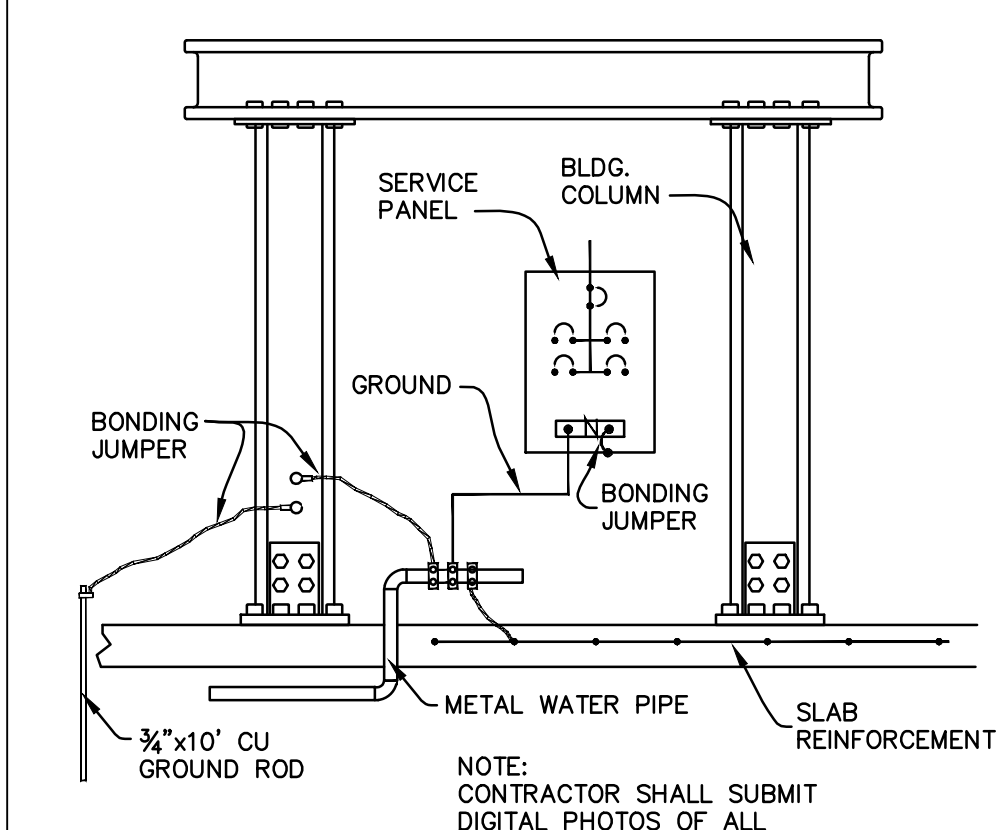
4 MULTITRIP CIRCUIT NEUTRAL WIRING DIAGRAM
SCALE: NTS



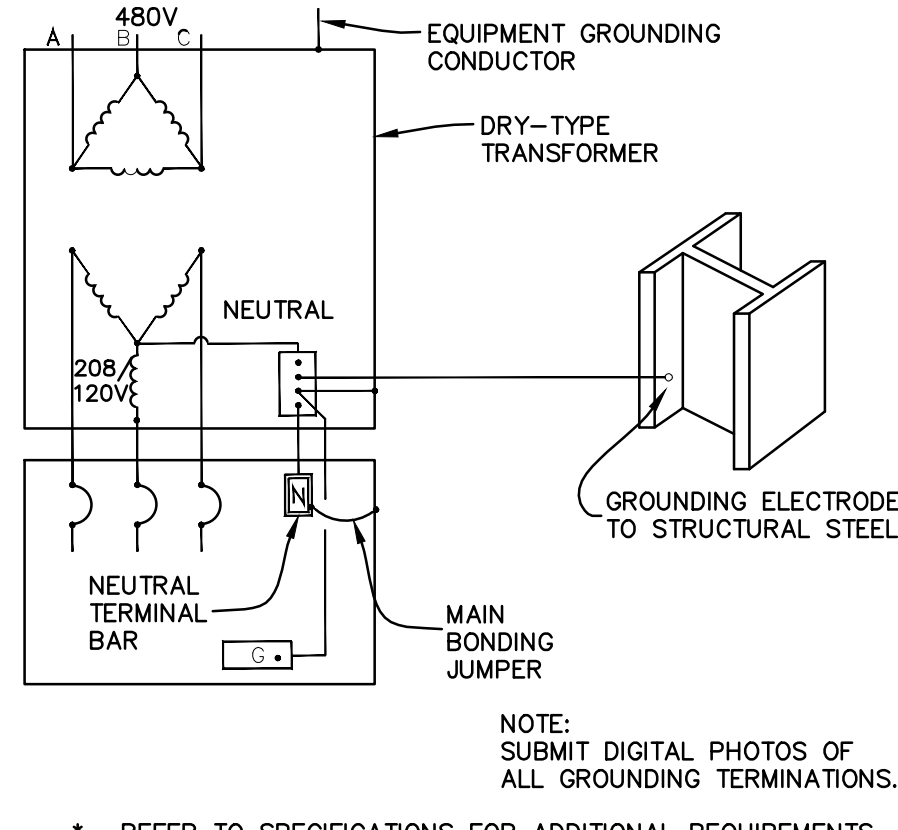
5 TYPICAL RECEPT. INSTALLATION REQUIREMENTS
SCALE: NTS



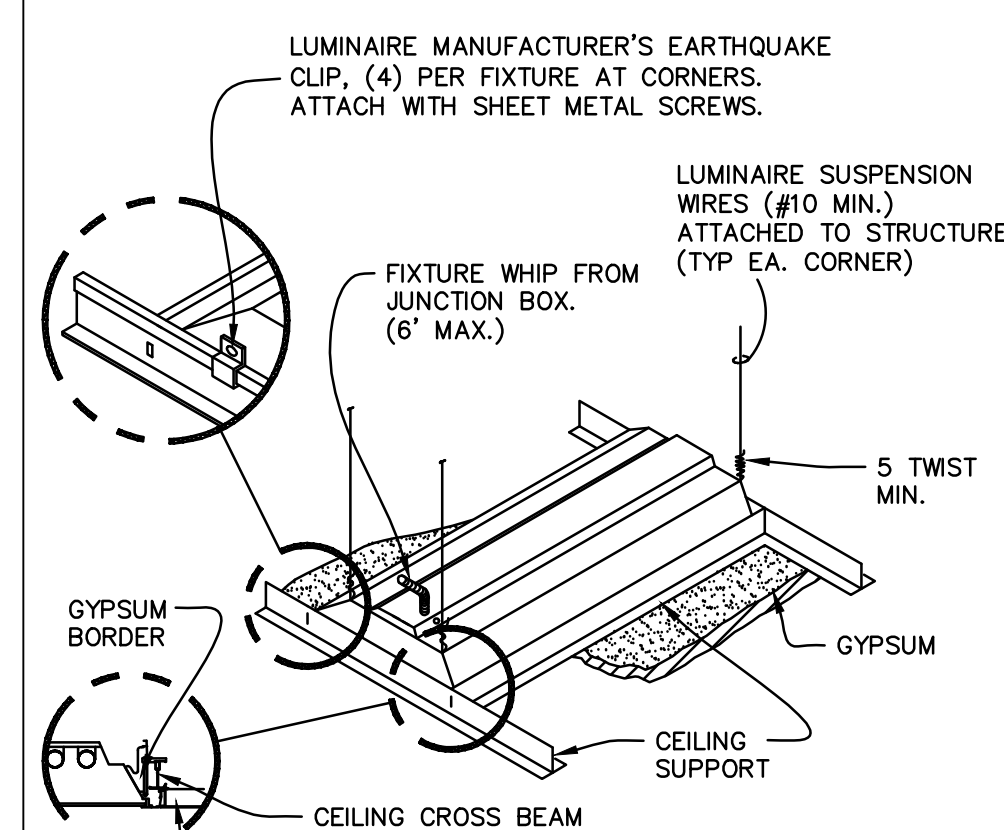
6 TELE/CATV/DATA GROUND DETAIL
SCALE: NTS



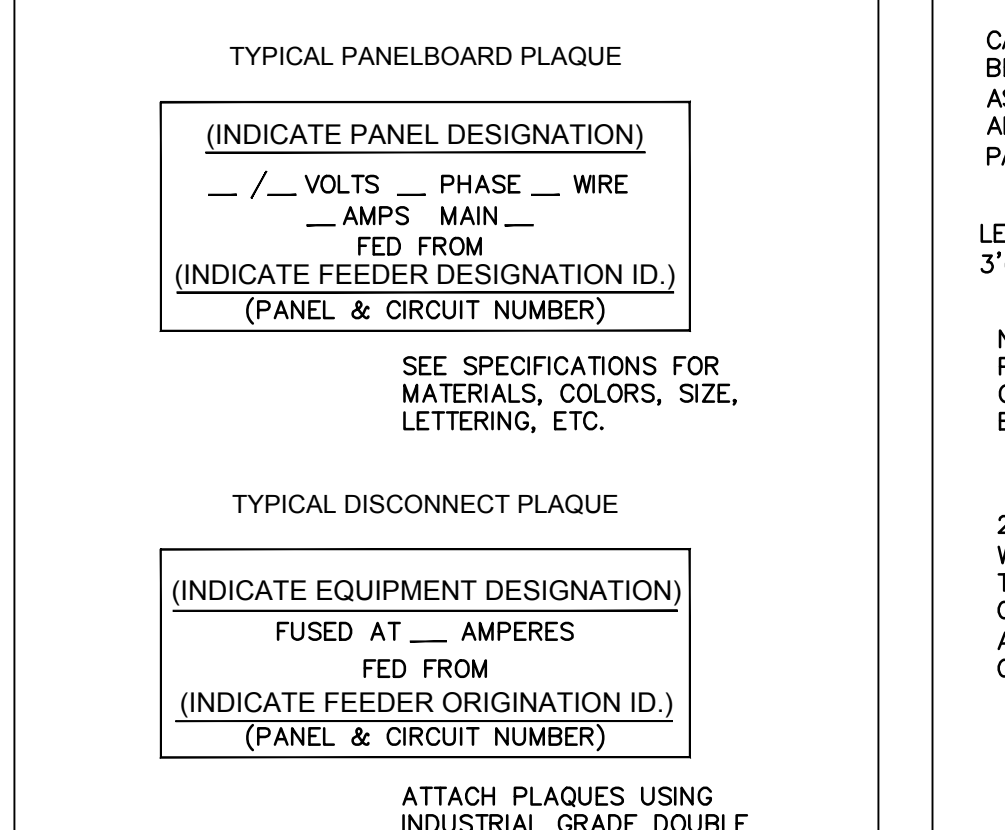
9 GROUND TO BLDG. STEEL DETAIL
SCALE: NTS



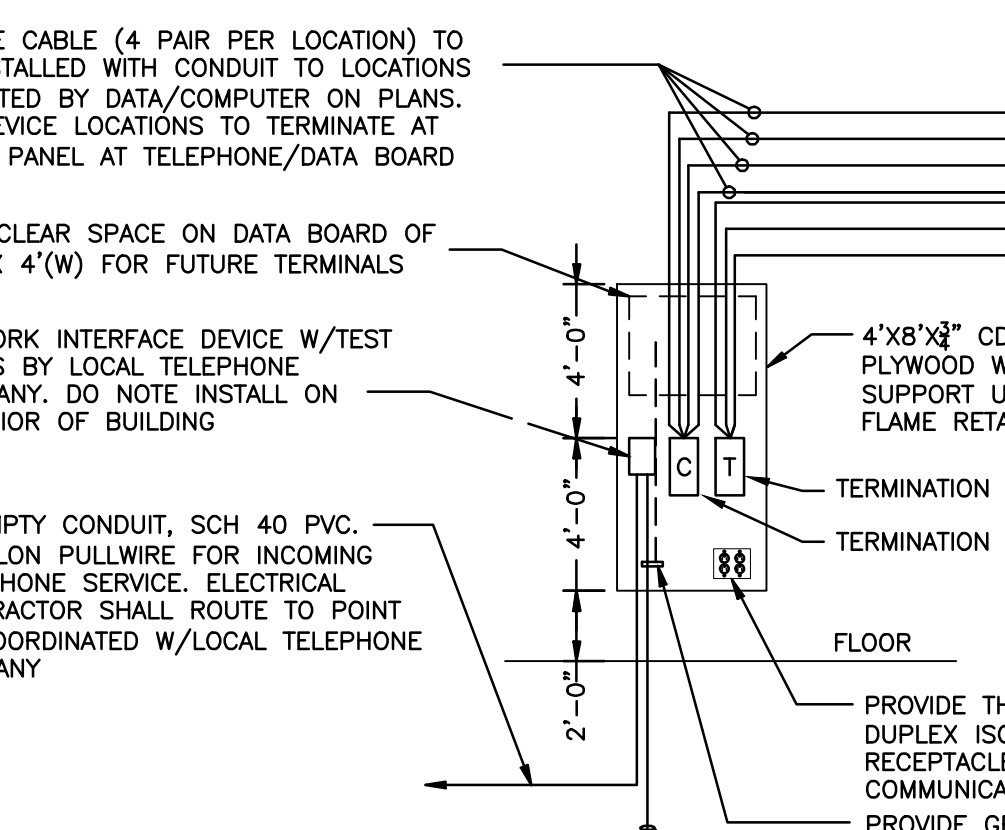
10 TRANS. GROUNDING DETAIL
SCALE: NTS



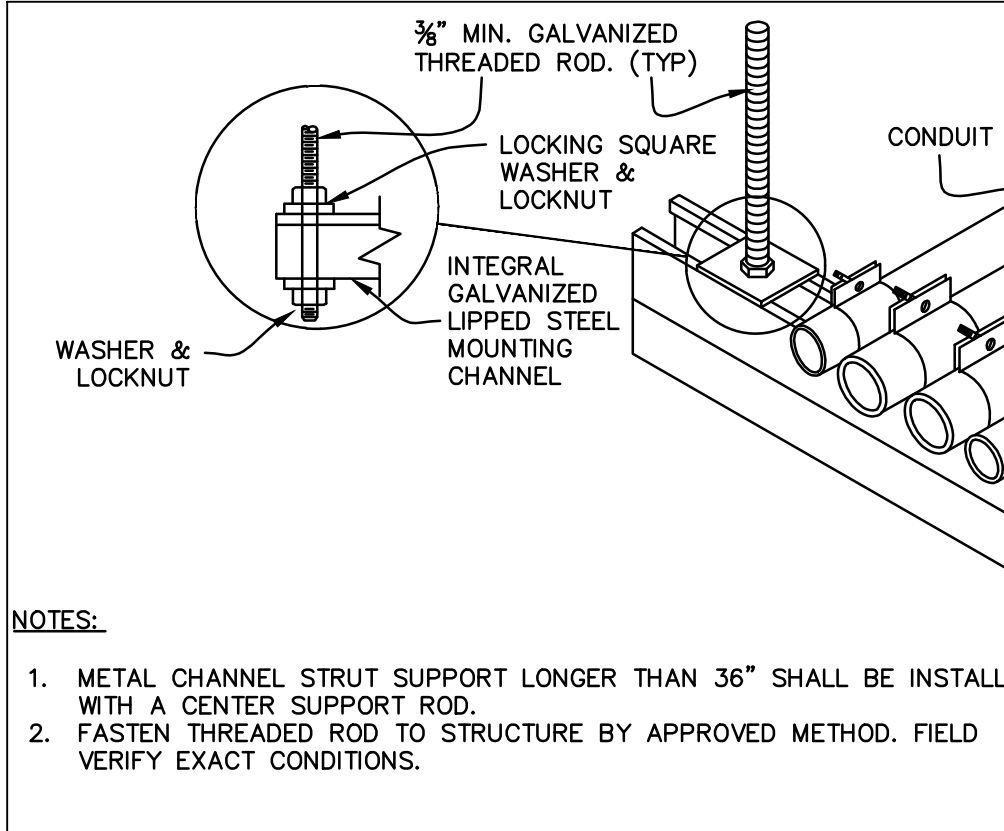
11 LUMINAIRE MOUNTING GYPSBOARD CEILING
SCALE: NTS



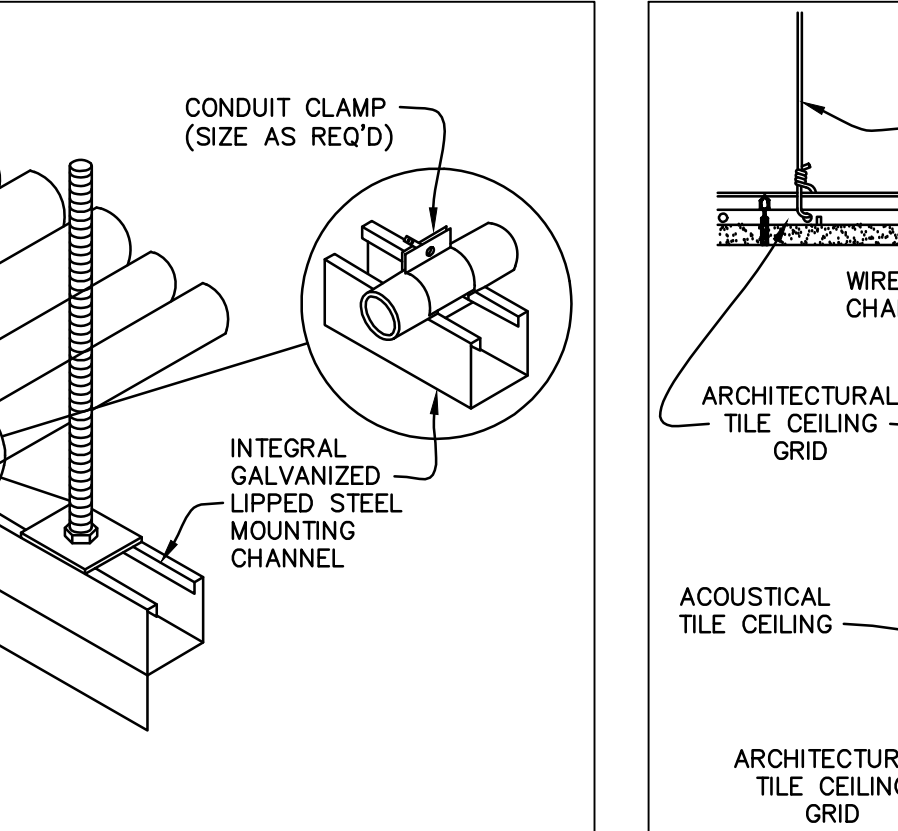
12 ELECTRICAL EQUIPMENT SIGNAGE DETAIL
SCALE: NTS



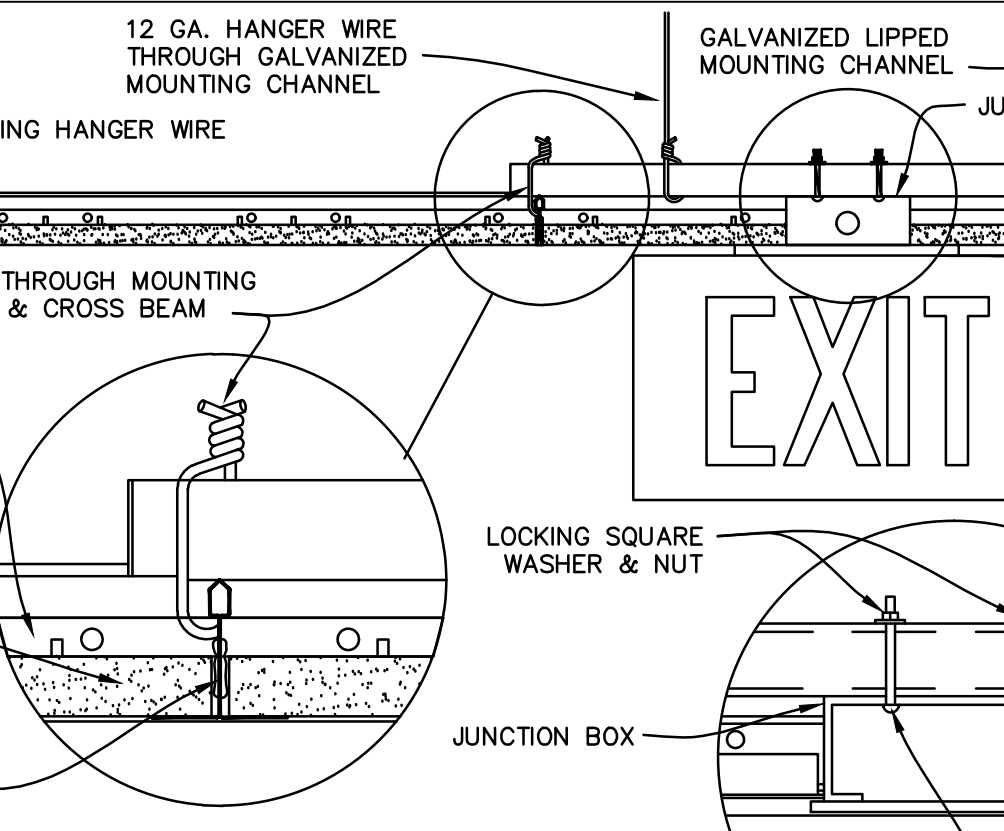
13 TYP. TELE/DATA/COMM. BOARD DETAIL
SCALE: NTS



14 CONDUIT TRAPEZE MOUNTING DETAIL
SCALE: NTS

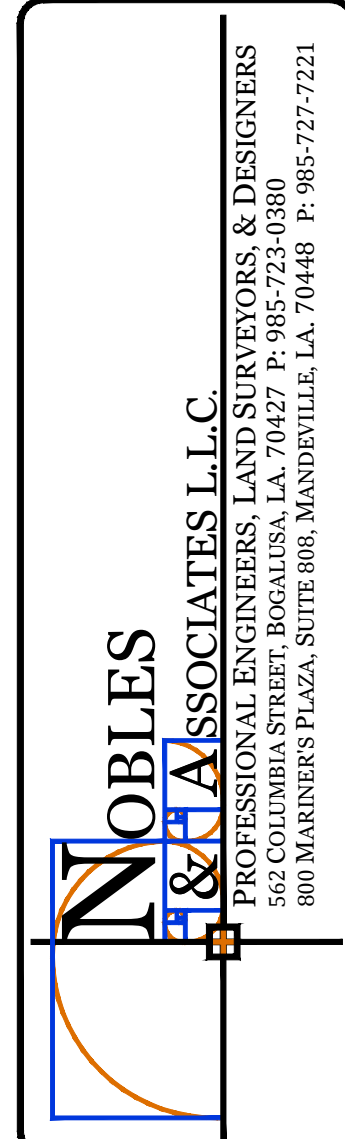


15 TYPICAL EXIT SIGN DETAIL
SCALE: NTS



16 DOWNLIGHT MOUNTING GYPSBOARD CEILING
SCALE: NTS

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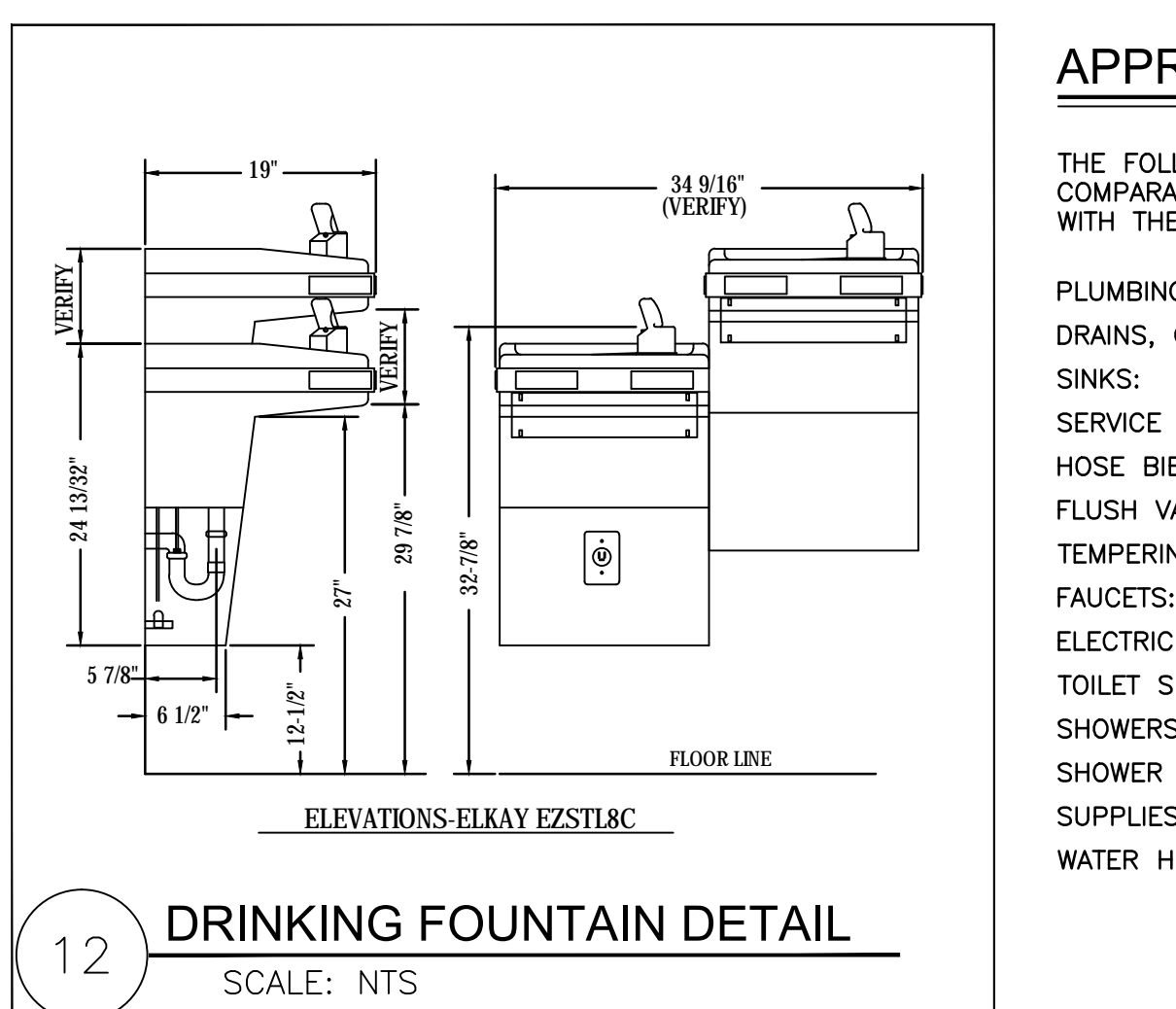
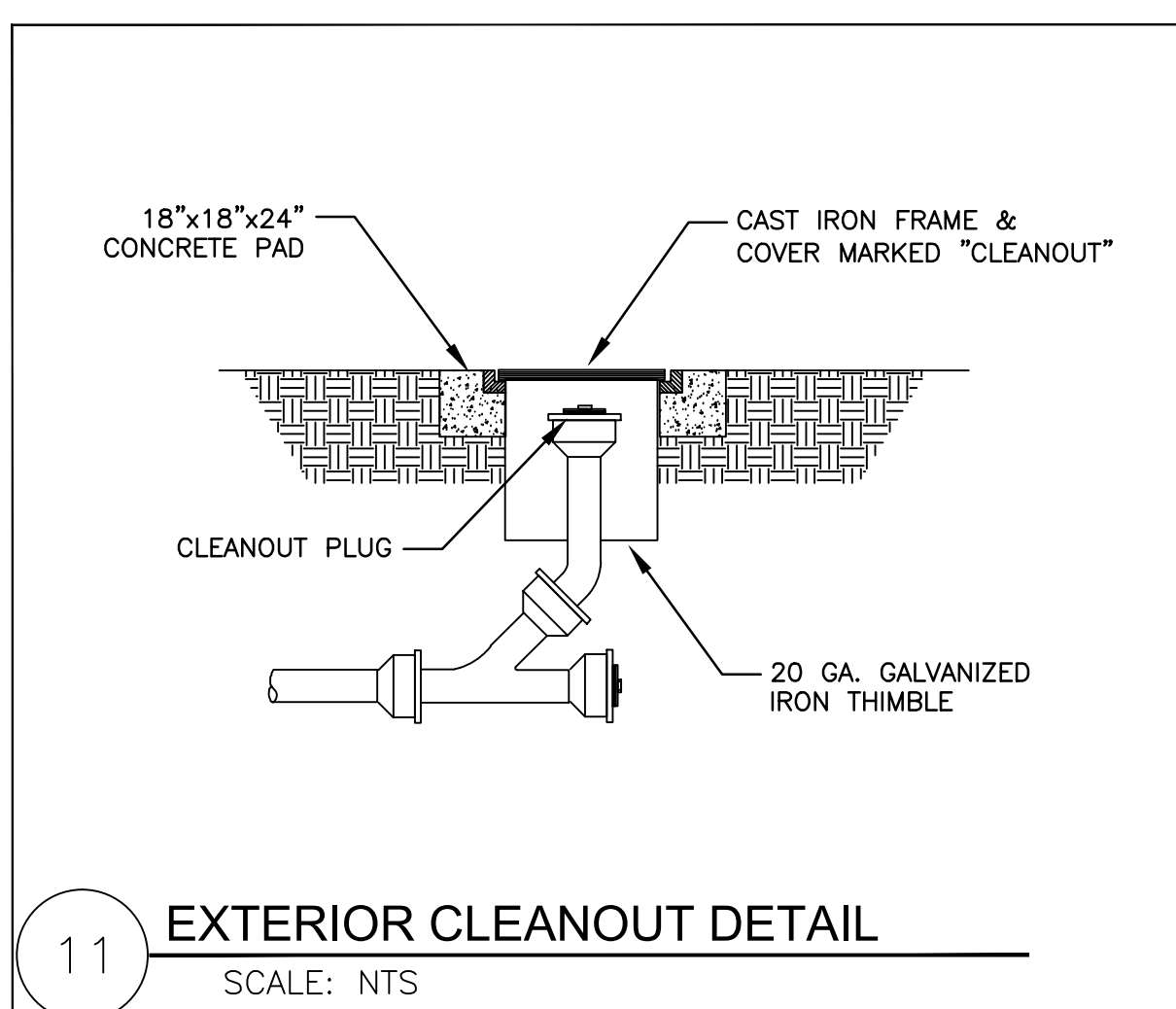
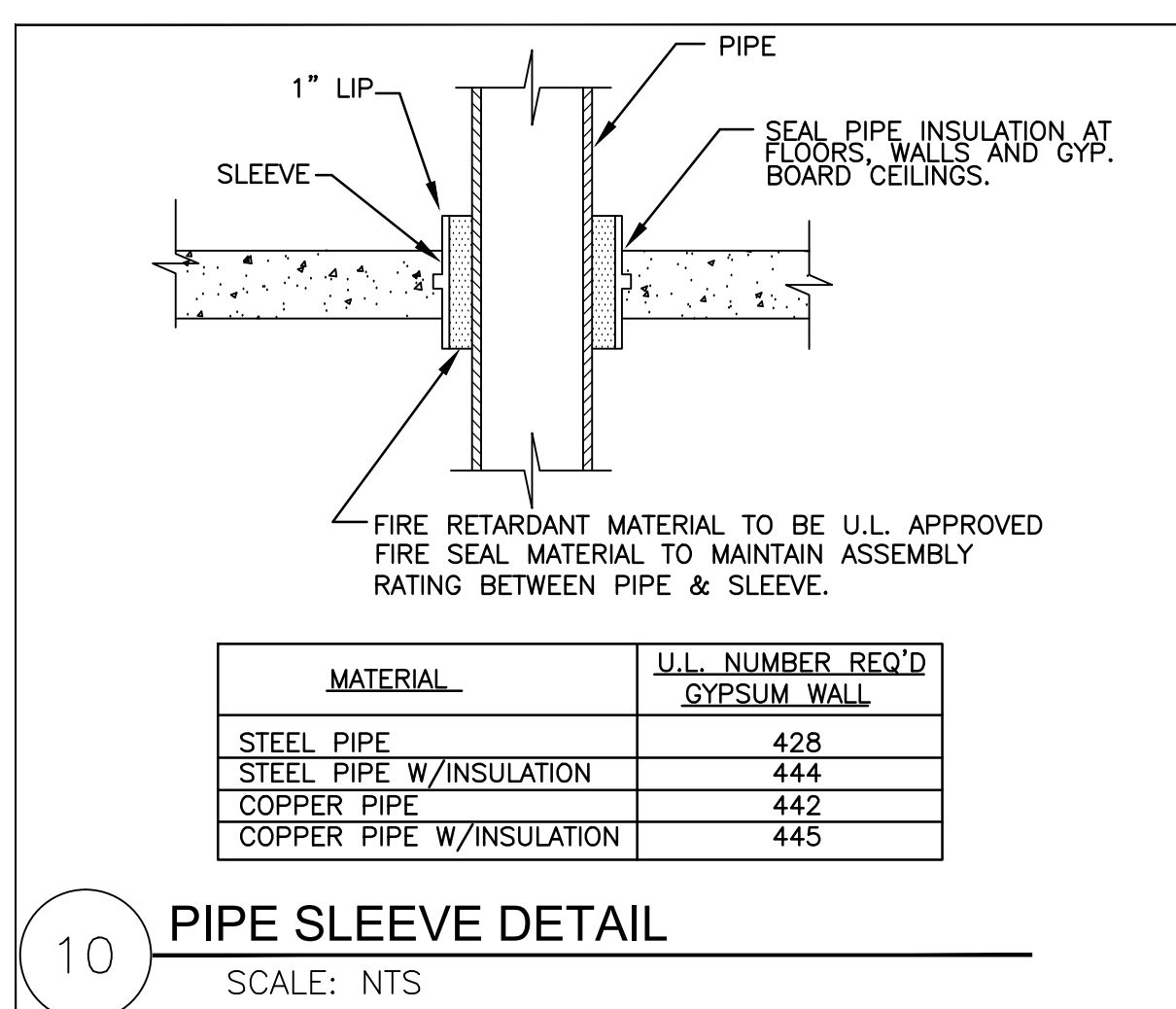
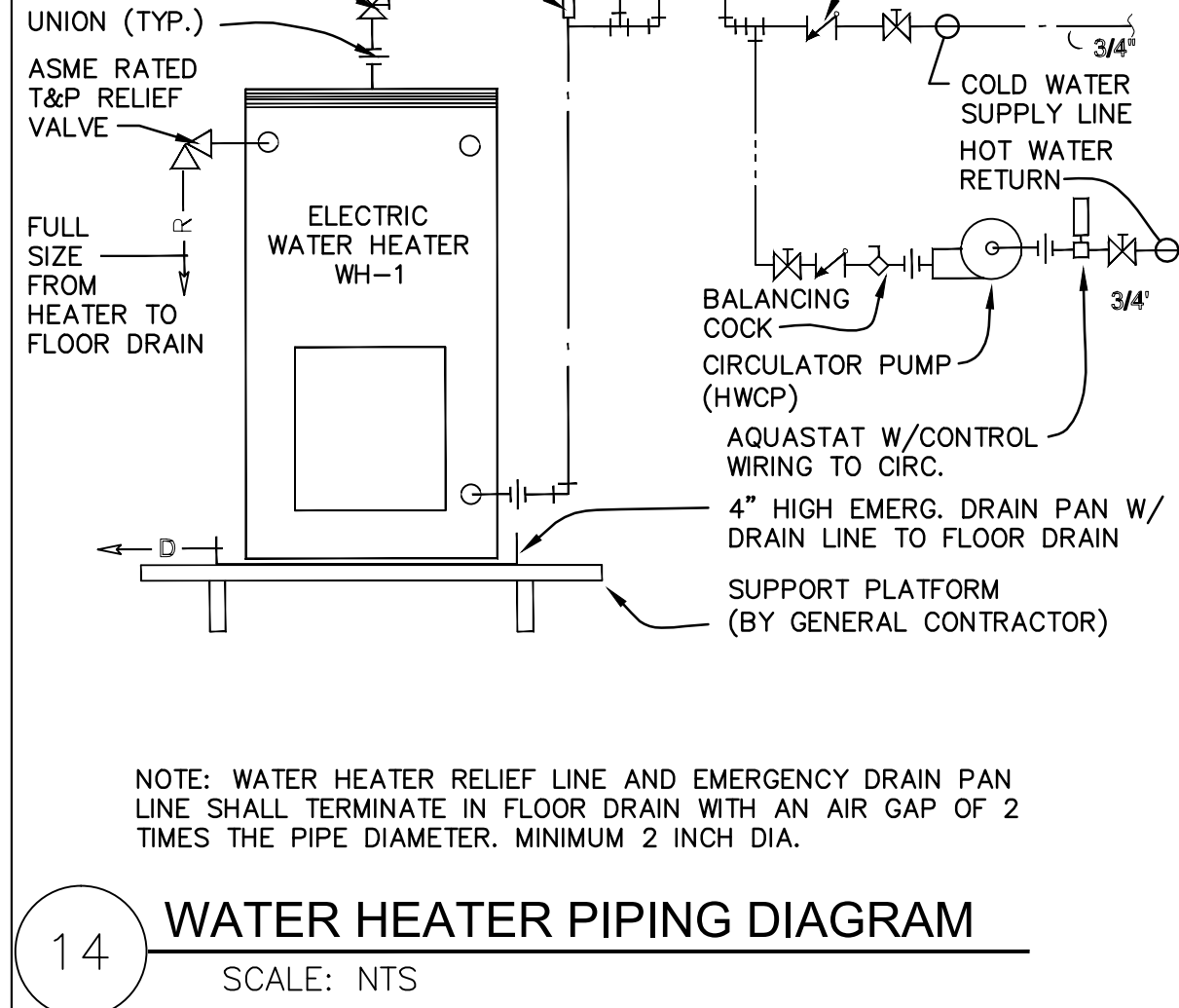
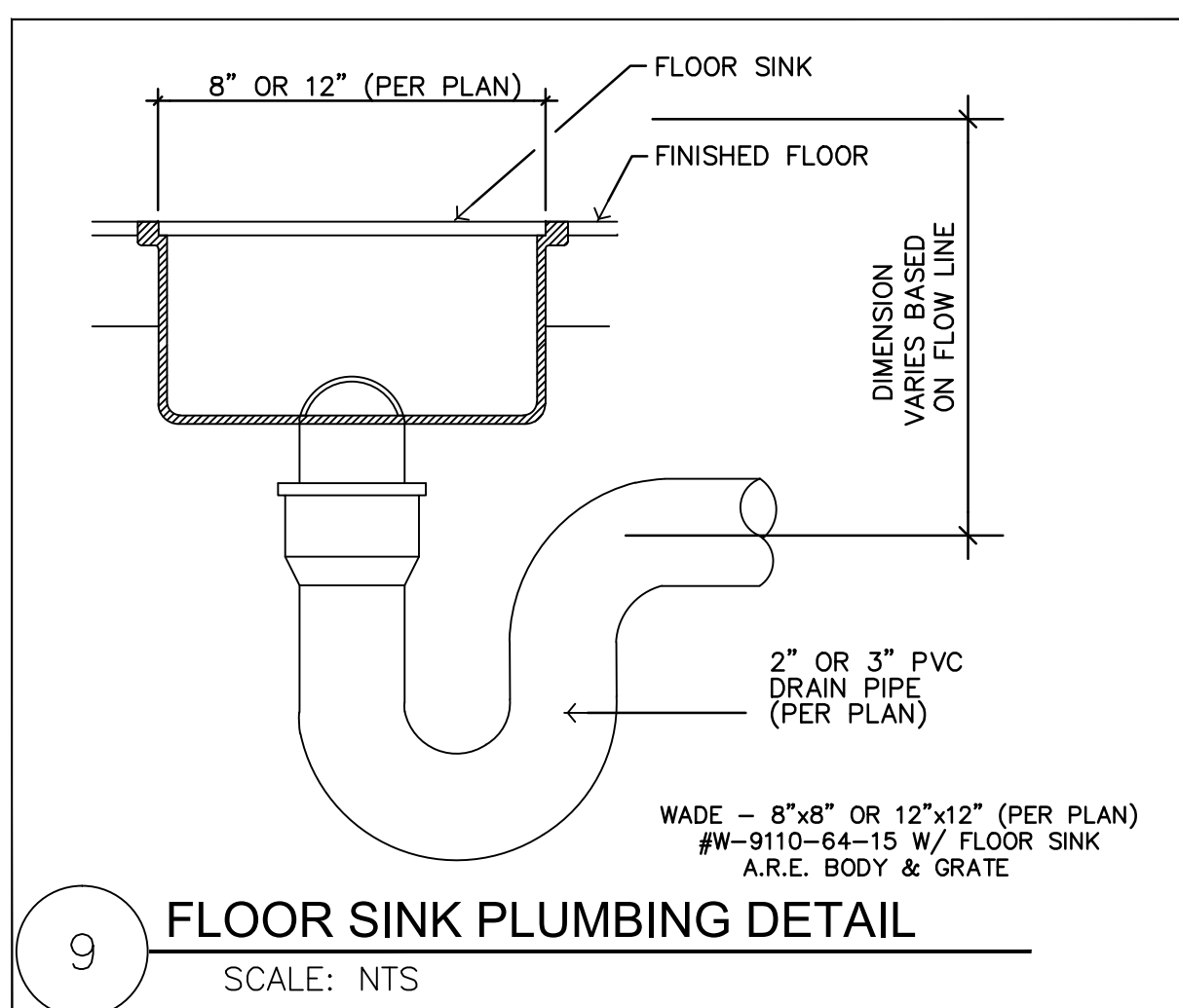
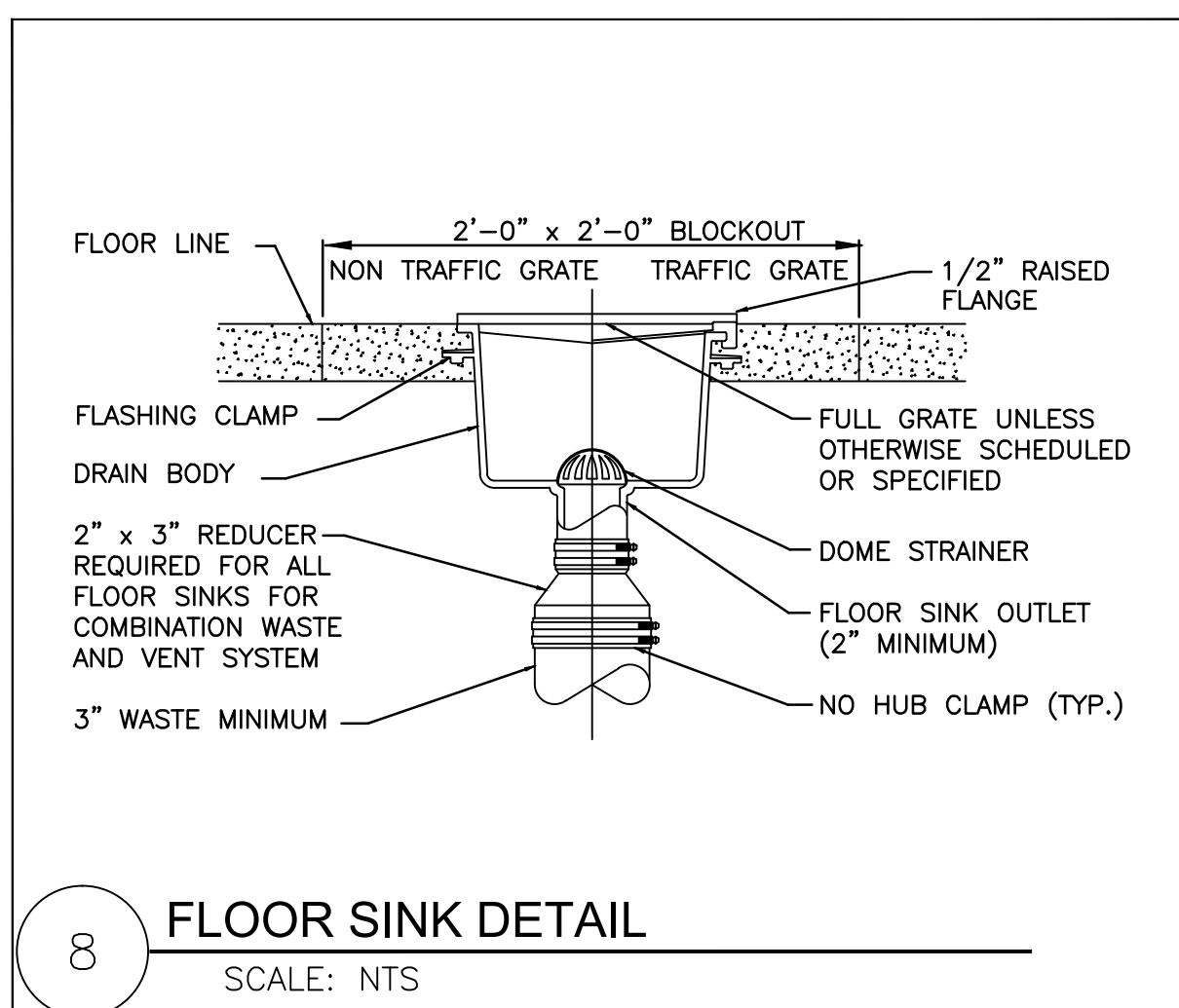
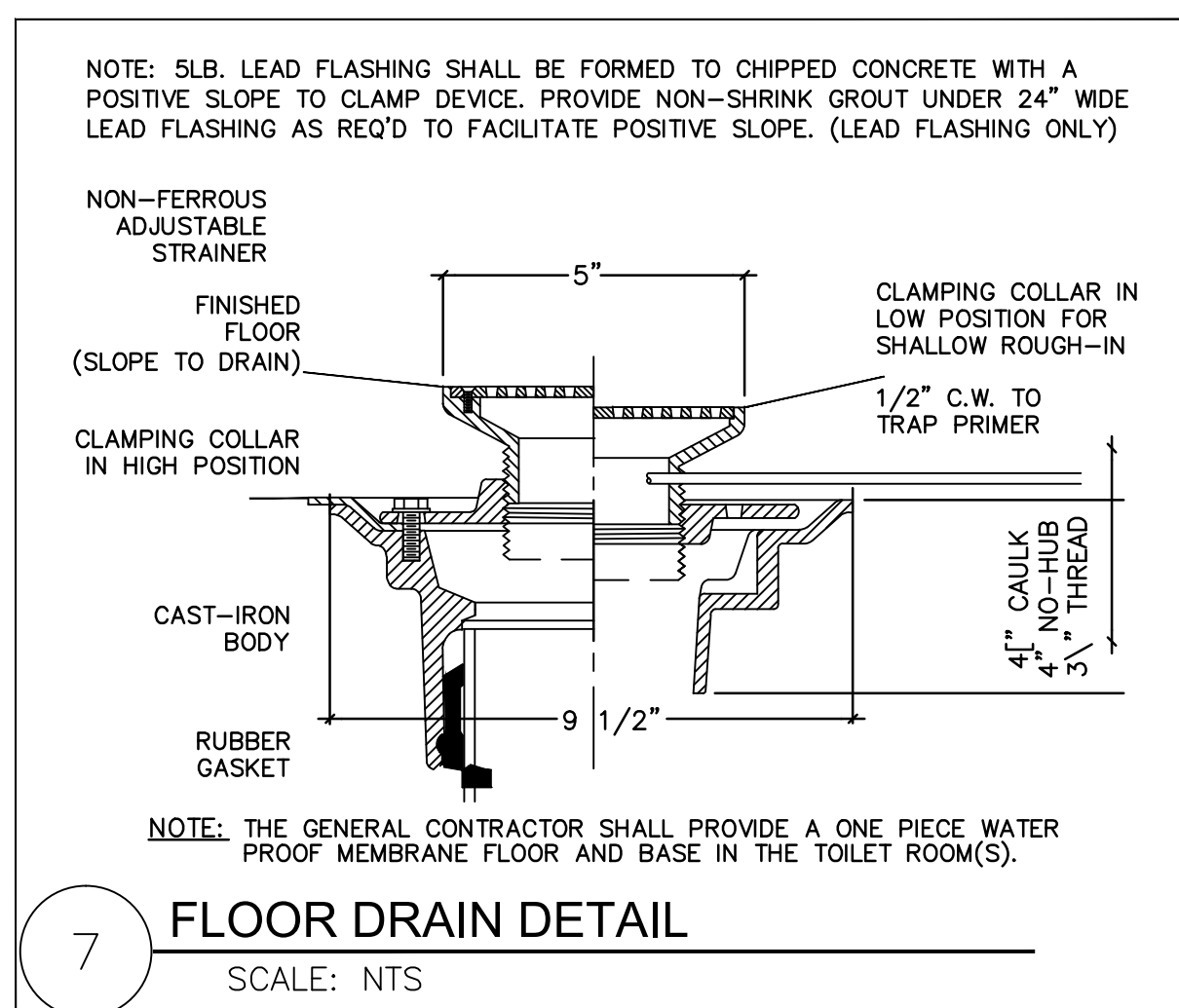
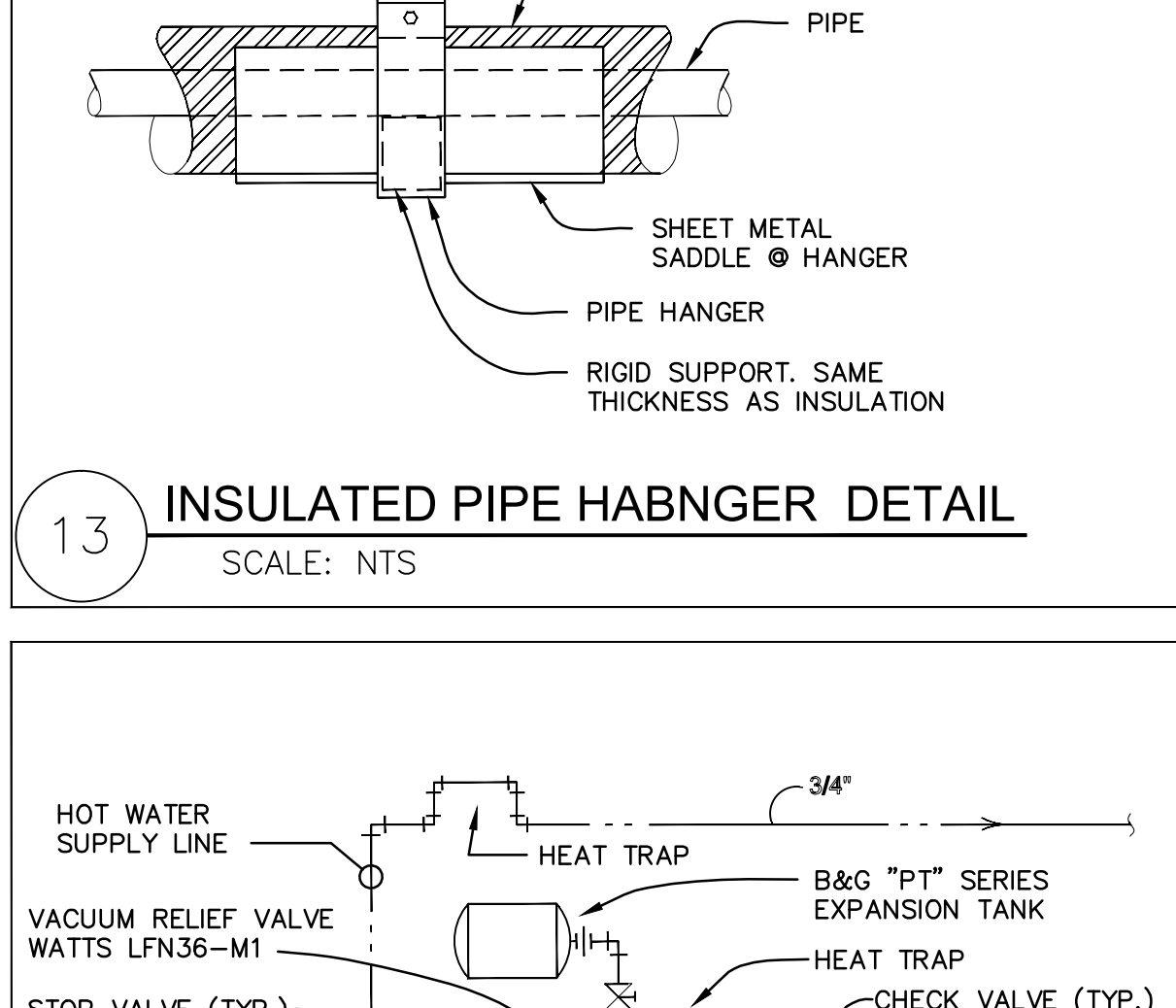
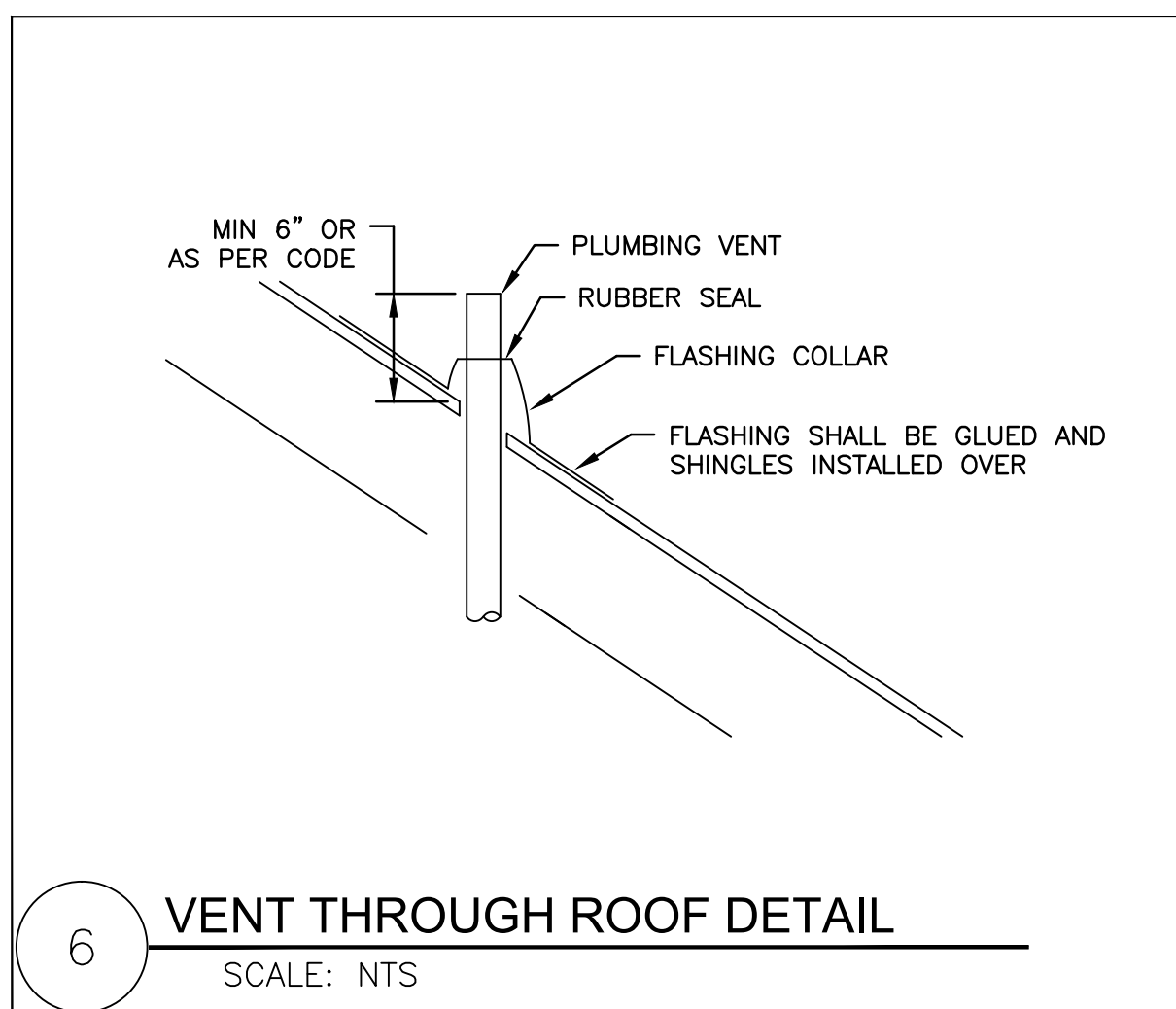
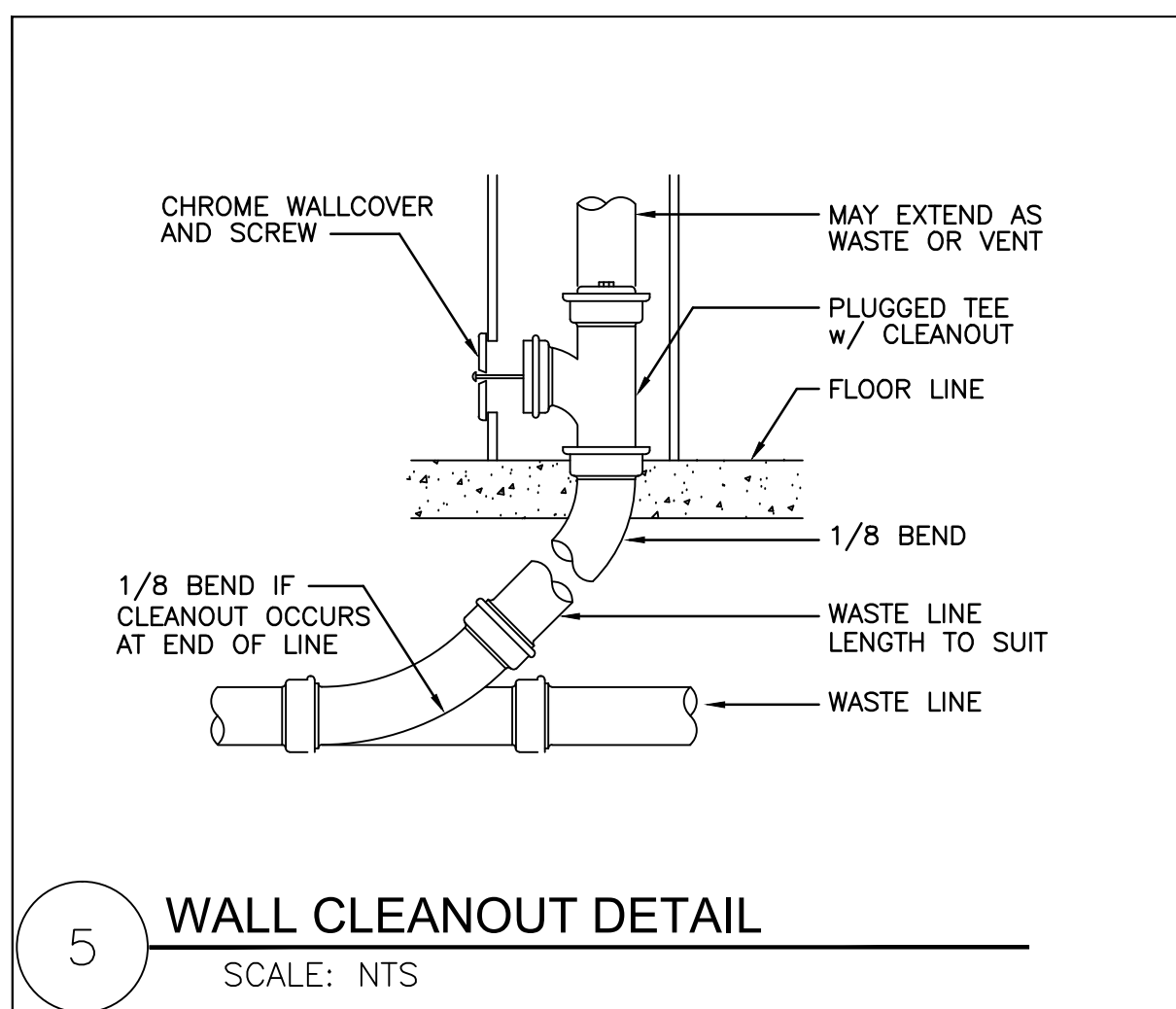
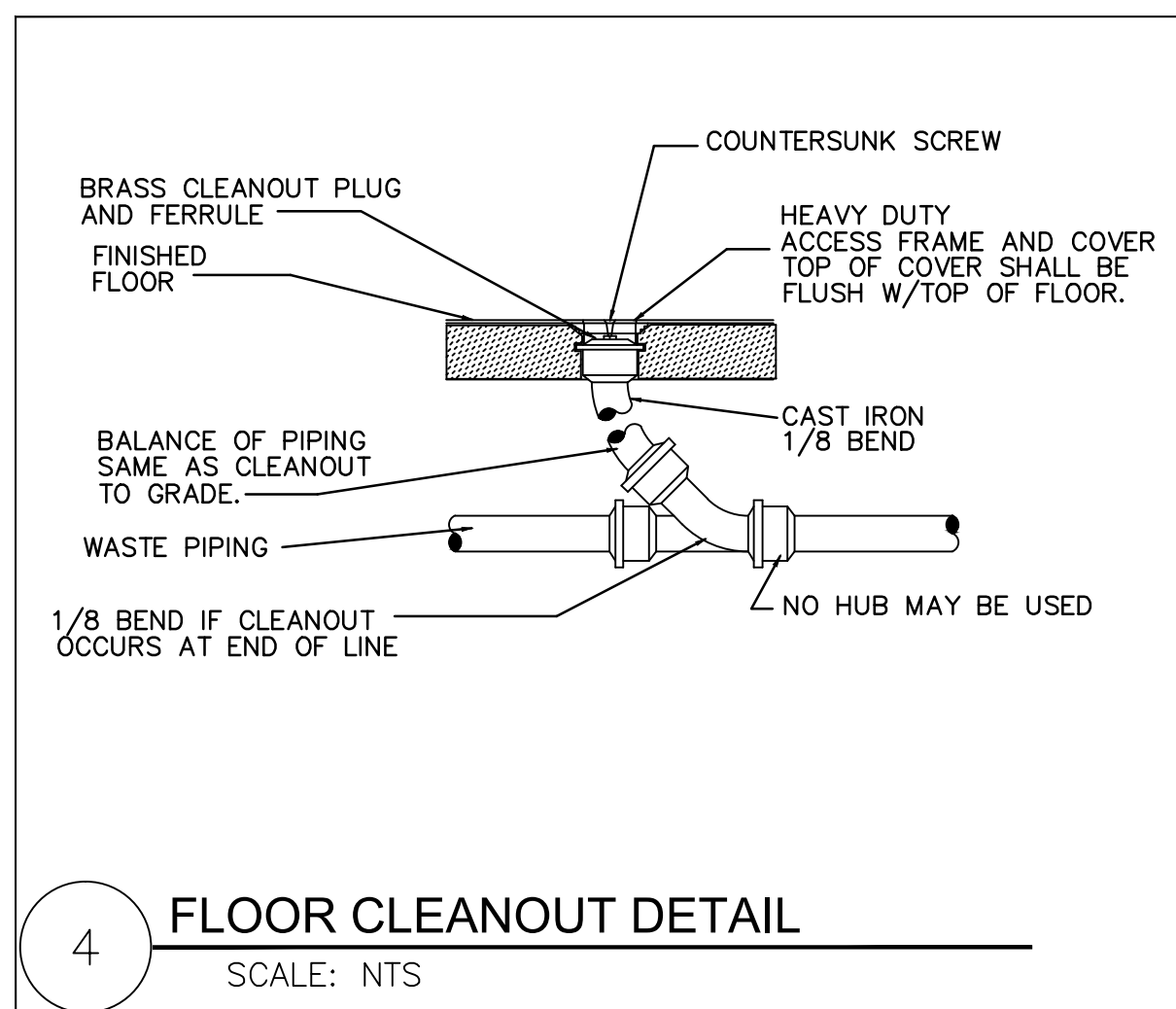
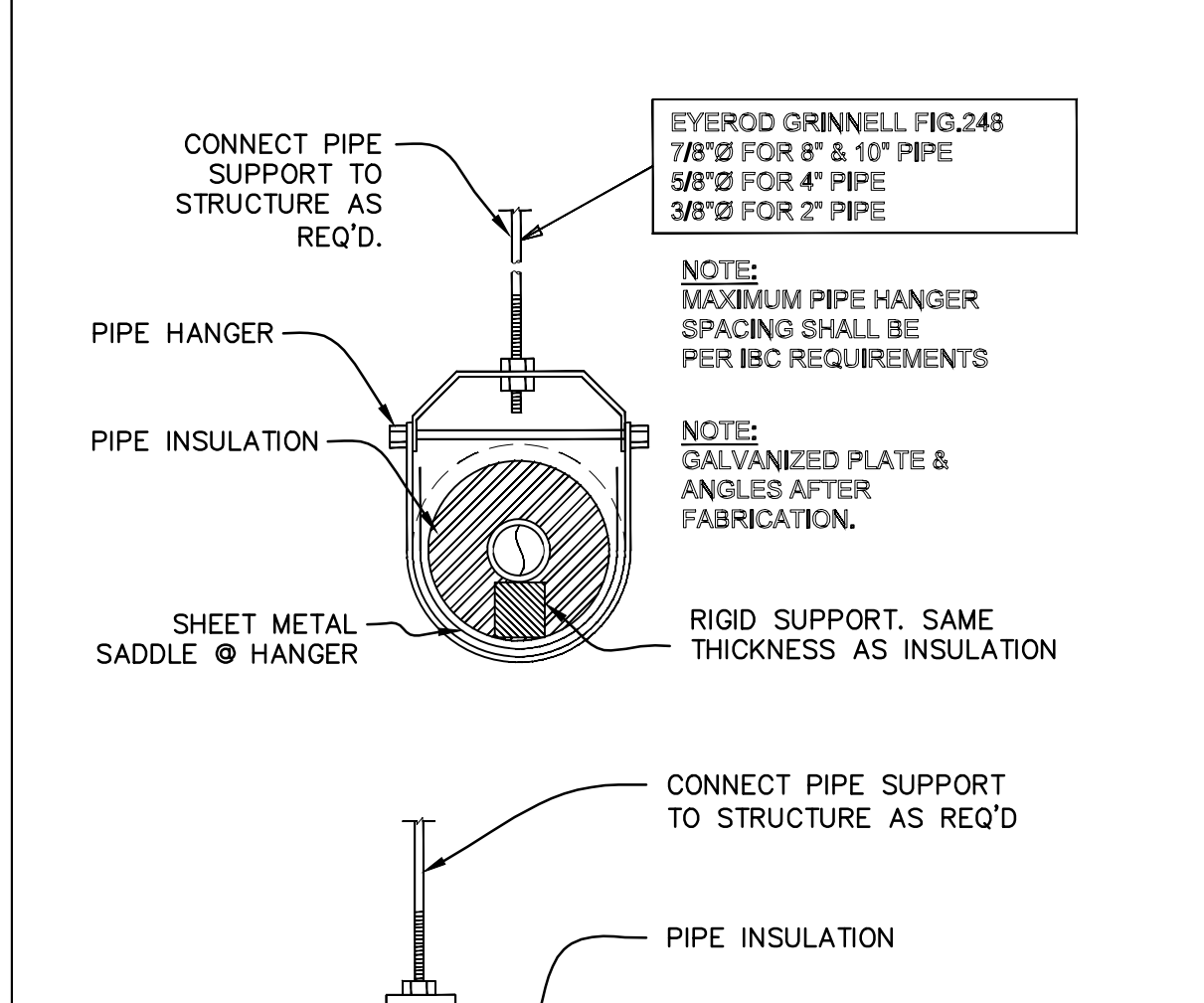
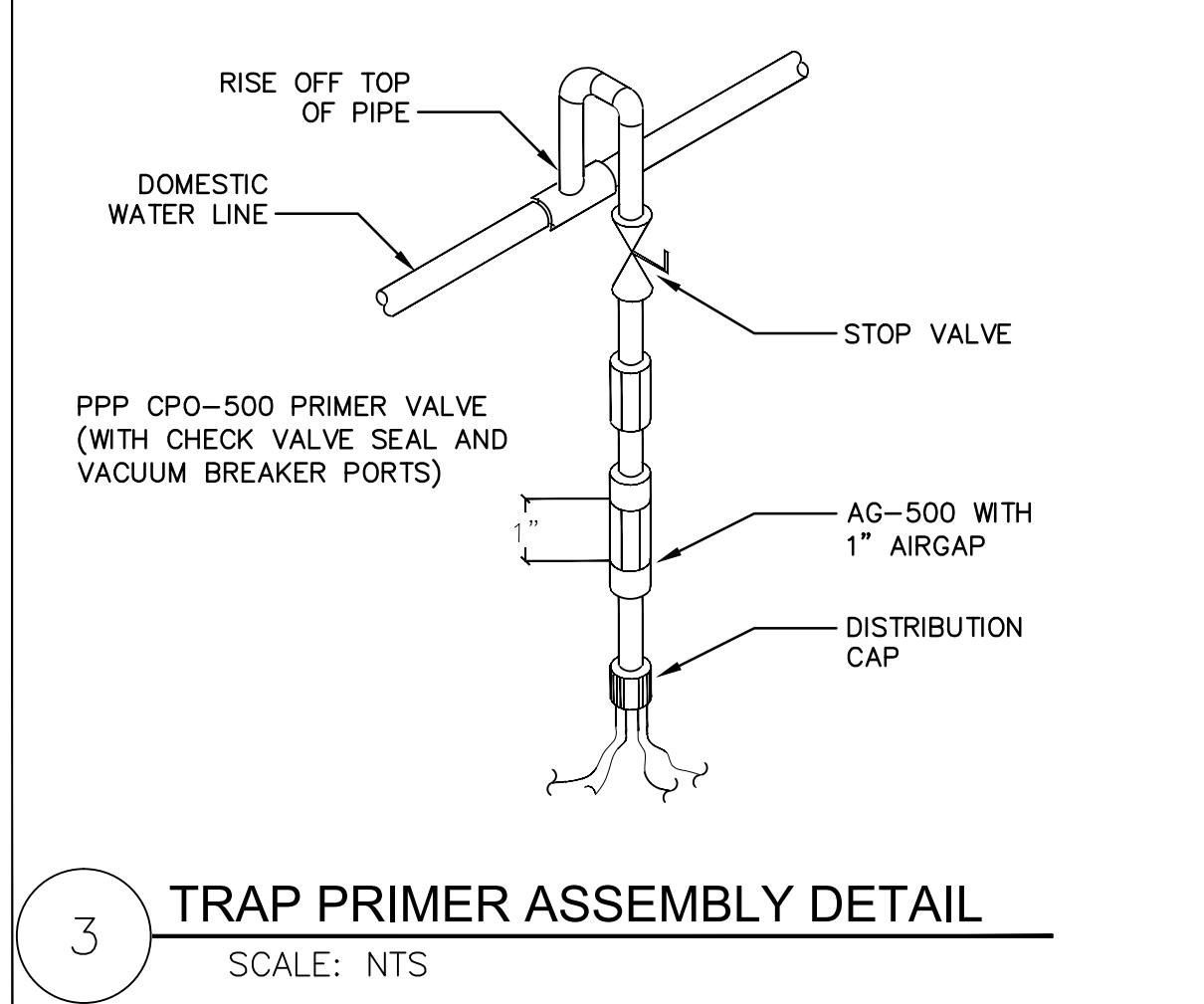
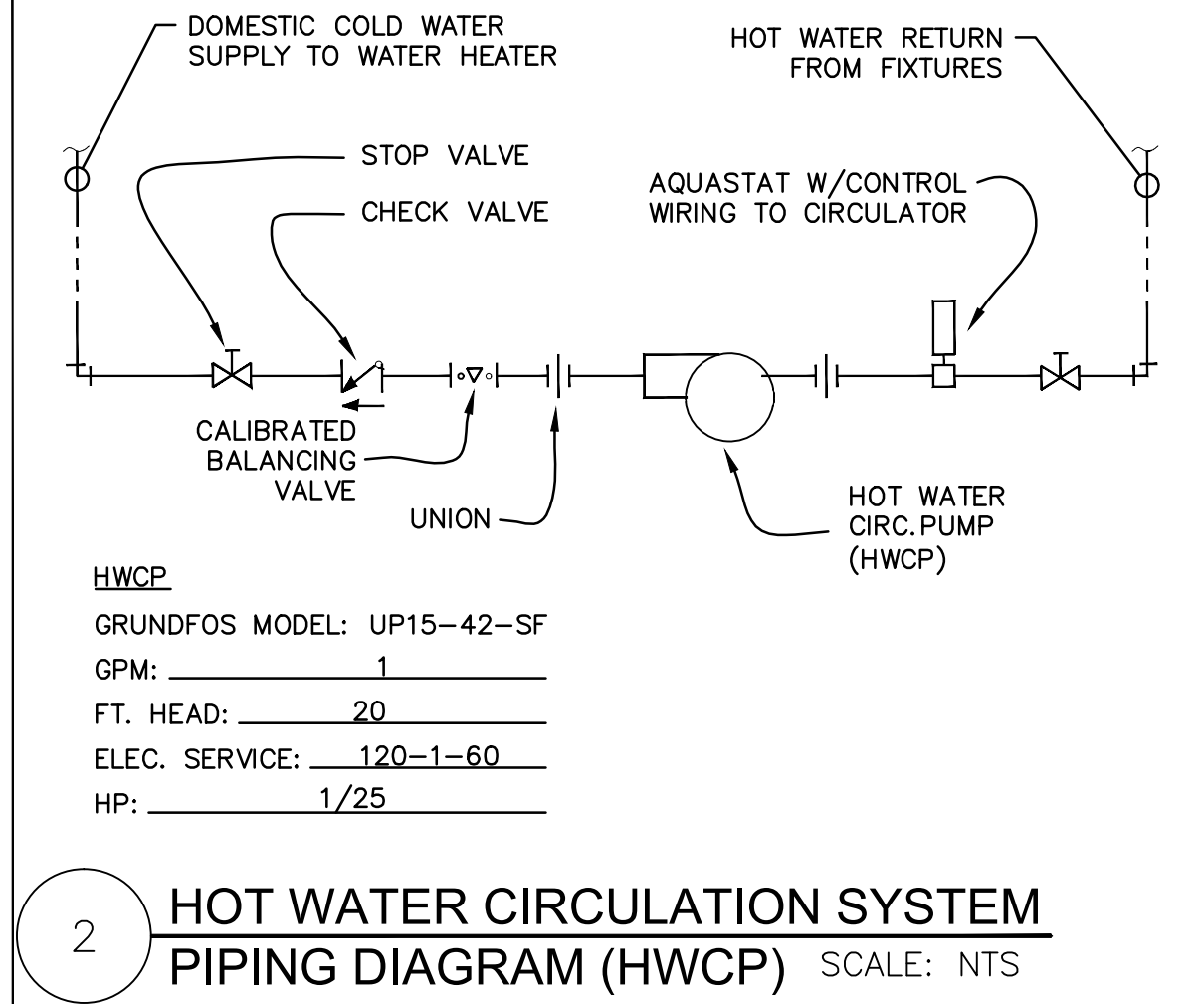
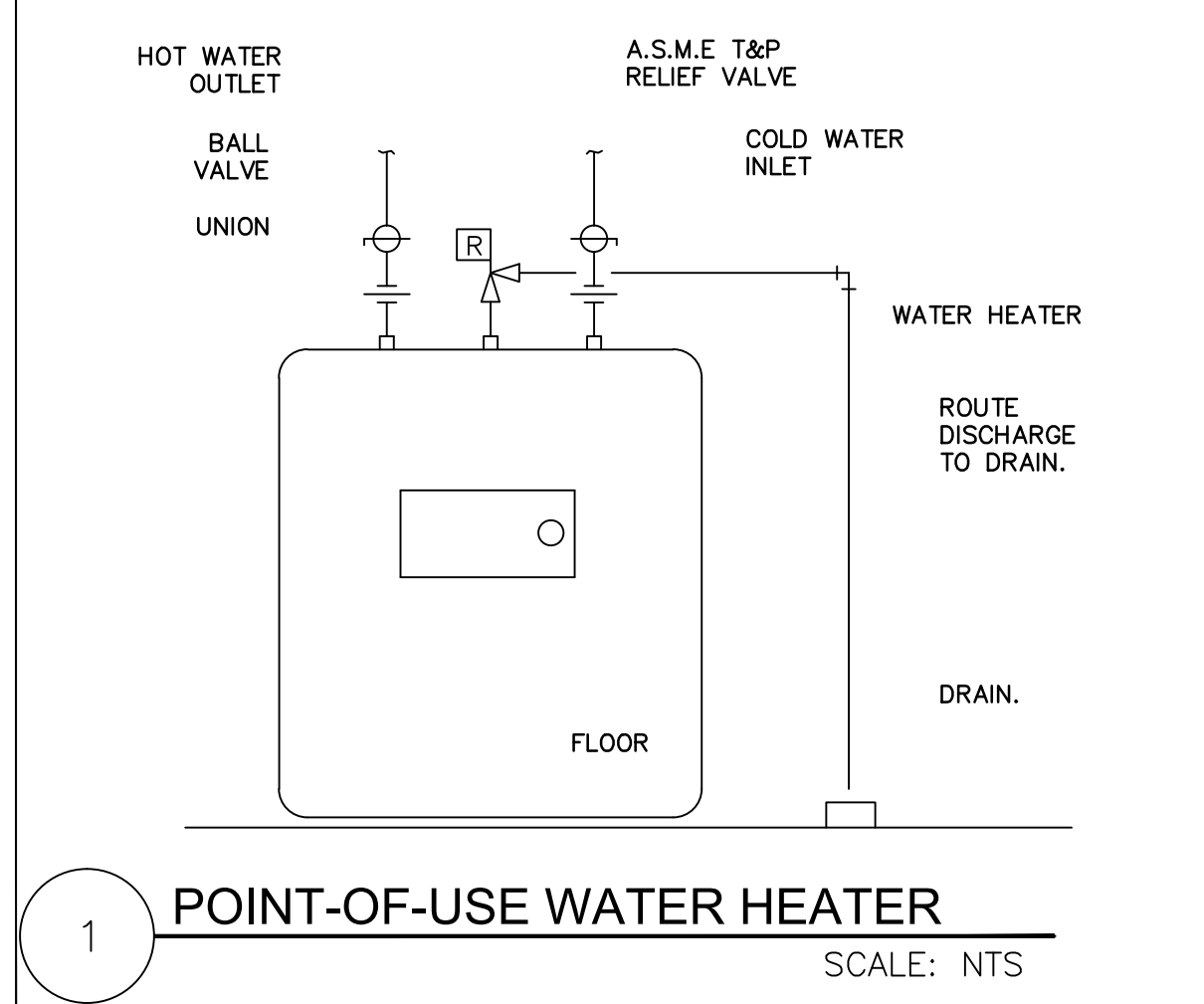
ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

ELECTRICAL DETAILS

Job No. E-00165

Dwn. Chk.
SWL GBN
Date Rev.
01/25/2022 REV. 0

E103
Sheet 1 Of 1



APPROVED EQUALS:

- THE FOLLOWING MANUFACTURERS OF PLUMBING FIXTURES AND DRAINS OF COMPARABLE QUALITY ARE CONSIDERED APPROVED EQUALS, SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
- PLUMBING FIXTURES: AMERICAN STANDARD, MANSFIELD, SLOAN, TOTO, ZURN
DRAINS, CLEANOUTS, CARRIERS: JOSAM, J.R. SMITH, MIFAB, WATTS, ZURN
SINKS: ADVANCE TOBCO, GRIFFIN, JUST
SERVICE SINKS: ACORN, FLORSTONE, MUSTEE, STERN WILLIAMS, ZURN
HOSE BIBS: J.R. SMITH, MIFAB, WATTS, ZURN
FLUSH BIBS: DELANY, ZURN
TEMPERING VALVE: BRADLEY, LAWLER, POWERS
FAUCETS: CHICAGO, DELTA COMMERCIAL, SLOAN, T&S, ZURN
ELECTRIC WATER COOLERS: ACORN, HAWS, HALSEY TAYLOR, OASIS
TOILET SEATS: BEMIS, BENEKE, CENTOCO, ZURN
SHOWERS: AQUARIUS, AQUABATH
SHOWER VALVES: BRADLEY, DELTA COMMERCIAL, SLOAN, SPEAKMAN, ZURN
SUPPLIES: BRASSCRAFT, EASTMAN, MCGUIRE, SPECIFIED TRIM, ZURN
WATER HEATER: SMITH, STATE

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GENERAL PLUMBING NOTES:

- LICENSED PLUMBING CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY LOCAL CODE.
- WATER SUPPLY AND SEWER SYSTEMS SHALL BE PERMITTED AND INSPECTED BY GOVERNING AUTHORITY PRIOR TO BUILDING OCCUPANCY AND PROJECT CLOSOUT.
- THE WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEM AS SHOWN ON THE PLANS AND SPECIFICATIONS.
- NO DEVIATIONS FROM THE PLANS SHALL COMMENCE WITHOUT PRIOR WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES PRIOR TO TYING INTO EXISTING STRUCTURES AND UTILITIES.
- VERIFY THE LOCATION OF ALL PIPES, DUCTS, FIXTURES, ETC. RUN PRELIMINARY LEVELS AND CHECK WITH OTHER TRADES TO AVOID POTENTIAL CONFLICTS.
- ALL WORK SHALL BE PERFORMED AND INSPECTED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES, LAWS, ORDINANCES, RULES, REGULATIONS AND REQUIREMENTS APPLICABLE TO THE PARTICULAR CLASS OF WORK.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS & DELAYS. RELOCATION OF DUCTWORK, EQUIPMENT PIPING, VALVES, ETC., REQUIRED AS A RESULT OF FAILED COMMUNICATION SHALL BE MADE AT THE CONTRACTOR'S SOLE EXPENSE WITHOUT ADDITIONAL COST TO THE OWNER.
- INSTALLATION PROCEDURES AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED CODES AND STANDARDS.
- WELDING PROCEDURES, WELDERS AND OPERATORS SHALL BE CERTIFIED IN ACCORDANCE WITH ASME B 31.1, OR ASME B 31.9, AS APPLICABLE, FOR SHOP AND PROJECT SITE WELDING OF PIPE WORK.
- CERTIFY WELDING OF PIPING WORK USING STANDARD PROCEDURES SPECIFICATIONS BY, AND WELDERS TESTED UNDER SUPERVISION OF NATIONAL CERTIFIED PIPE WELDING BUREAU (NCPWB).
- WHERE PLASTIC PIPING IS INDICATED TO TRANSPORT NON-PORTABLE WATER, PROVIDE PIPES AND FITTINGS BEARING APPROVAL LABEL BY NATIONAL SANITATION FOUNDATION (NSF).
- COPPER TUBE AND FITTINGS:
 - COPPER TUBE: ASTM B 88 TYPE (WALL THICKNESS), AS INDICATED, FOR EACH SERVICE; HARD-DRAWN OR SOFT-DRAWN TEMPER, AS INDICATED, EXCEPT AS OTHERWISE INDICATED.
 - CAST COPPER SOLDER JOINT FITTINGS: ANSI B16.18.
 - CAST BRONZE SOLDER JOINT FITTINGS: ANSI B16.15, CLASS 150, OR 250, AS REQUIRED.
 - CAST BRONZE THREADLESS FITTINGS: ASTM B 61.
- PLASTIC PIPES AND PIPE FITTINGS:
 - POLYVINYL CHLORIDE PIPE (PVC): ASTM D 1785, IN SCHEDULE WEIGHT, AS INDICATED ON THE DRAWINGS.
 - POLYVINYL CHLORIDE WATER PIPE (PVC): AWWA C 900 IN C.
 - POLYVINYL CHLORIDE SEWER PIPE (PVC): ASTM D 2729.
 - POLYVINYL CHLORIDE DRAIN, WASTE, AND VENT PIPE (PVC-DWV): ASTM D 2665.
 - POLYVINYL CHLORIDE TYPE PSM SEWER PIPE: ASTM D 3034.
- PVC FITTINGS:
 - SCHEDULE 40 SOCKET: ASTM D 2466
 - SCHEDULE 80 SOCKET: ASTM D 2467
 - SCHEDULE 80 THREADED: ASTM D 2464
 - DWV SOCKET: ASTM D 2665
 - SEWER SOCKET: ASTM D 2729
 - SOLVENT CEMENT: ASTM D 2564
 - SOLVENT CEMENT (PVC TO ABS): ASTM D 3138
- INSULATION:
 - MANUFACTURERS INSULATION PRODUCTS SHALL BE TYPE AS MANUFACTURED BY KNAUF FIBER GLASS, OWENS-CORNING FIBERGLASS, AND SCHULLER.
 - INSULATED WATER PIPING INSIDE BUILDING PIPING SHALL BE INSULATED WITH FIBERGLASS HEAVY DENSITY INSULATION HAVING A THERMAL CONDUCTANCE IN THE RANGE OF 0.23 AT A MEAN TEMPERATURE OF 75°F. PROVIDE INSULATION WITH A FACTORY APPLIED FIRE RETARDANT, ALL SERVICE JACKET (ASJ). BUTT STRIPS SHALL BE OF SAME MATERIAL AS ALL SERVICE JACKETS AND EMPLOY THE SAME ADHESIVE AS IS USED ON THE JACKET LAP SEAL. ALL VALVES, AND FITTINGS SHALL BE INSULATED WITH THE SAME THICKNESS INSULATION AS SPECIFIED FOR PIPING SYSTEMS. INSULATION SHALL BE APPLIED TO THE FOLLOWING PIPING SYSTEM WITH THICKNESS AS INDICATED
 - PIPING SYSTEM, PIPE SIZE, THICKNESS DOMESTIC COLD WATER, ALL SIZES, 1/2" DOMESTIC HOT WATER, 2" AND SMALLER, 1"
 - FURNISH AND INSTALL ZESTON 2000 OR PROTO PVC INSULATED FITTING COVERS ON ALL PIPE FITTINGS, FLANGES, VALVES, AND PIPE TERMINATIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - PIPE INSULATION SHALL RUN CONTINUOUS THROUGH NON-RATED WALLS AND PARTITIONS, EXCEPT WHERE PIPE PASSES THROUGH FIRE RATED WALLS. PENETRATION OF FIRE RATED WALLS SHALL BE ACCOMPLISHED BY MEANS OF FIRE RATED PIPE PENETRATIONS, AS DETAILED BY U.L.
- SANITARY SEWER SHALL BE DWV SCHEDULE 40 PVC AS ALLOWED BY LOCAL CODES.
- GENERAL CONTRACTOR WILL PROVIDE OPENINGS IN ROOF, FLOORS AND EXTERIOR WALLS FOR PLUMBING EQUIPMENT AND PIPE PENETRATIONS.
- INSULATE ALL ABOVE GRADE DOMESTIC WATER PIPE AND COLD CONDENSATE DRAIN PIPES.
- SHOCK ABSORBERS (SA) SHALL BE MADE #10, WATTS #SG-050, OR EQUAL.
- DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE "K" SOFT DRAWN COPPER PIPE WRAPPED WITH VINYL TAPE OR PEX WRAPPED WITH VINYL TAPE. NO JOINTS BELOW FLOOR SLAB.
- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE HARD DRAWN TYPE "L" COPPER WITH WROUGHT SWEAT SOLDER JOINTS OR 25 YR PEX WATER PIPING WITH APPROVED FITTINGS AND CONNECTORS.
- VALVES SHALL BE FULL PORT BALL VALVES. NIBCO, OR EQUAL.

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PROFESSIONAL ENGINEERS, LAND SURVEYORS, & DESIGNERS
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800 HANOVERS BLVD., SUITE 600, MONROVILLE, LA 70448 P: 985-727-7721

NEW BUILDING FOR
SUPERIOR AVENUE CHURCH
MULTIPURPOSE FACILITY
HIGHWAY 21, BOGALUSA, LA 70427

Rev. No.	Date	Description

ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767

PLUMBING NOTES
DETAILS

Job No. E-00165
Dwn. Chk.
SWL GBN
Date Rev.
01/25/2022 REV. 0

P103
Sheet 1 of 1

THESE DRAWINGS ARE THE SOLE PROPERTY OF NOBLES & ASSOCIATES, L.L.C., AND ARE ISSUED AS INSTRUMENTS OF SERVICE.

DESIGN INFORMATION AND LOADS

- A. FOUNDATION DESIGN IN ACCORDANCE WITH 2015 IBC FOR THE FOLLOWING DESIGN CRITERIA:
B. BUILDING USE: ASSEMBLY
C. GROUND SNOW LOAD: 05 PSF
D. LIVE LOAD: 20 PSF
E. DEAD LOAD: 10 PSF
F. WIND SPEED (ULT): 132 MPH
G. EXPOSURE: C
H. Sbc: 0.101
I. Sd: B

EARTHWORK

- A. FOUNDATION DESIGN
1. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF
2. COEFFICIENT OF FRICTION = 0.20
3. LATERAL EARTH PRESSURE = 100 PSF/FT OF DEPTH
B. THE FOUNDATION HAS BEEN DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY ASSUMING COMPRESSIVE SOIL (NON-EXPANSIVE) WITH A MINIMUM GROSS SETTLEMENT OF <1".
C. A SOIL REPORT IS REQUIRED TO VERIFY THE DESIGN PARAMETERS...

CONCRETE AND REINFORCEMENT

- A. MATERIAL STANDARDS
1. CONCRETE
a. FOOTINGS AND FOUNDATION WALLS: Fy = 3,000 PSI
b. SLABS ON GRADE: = 3,500 PSI
c. NORMAL WEIGHT OF AGGREGATES: ASTM C33
2. CEMENT
a. USE TYPE 1/II CEMENT AS PER ASTM C150
b. AIR-ENTRAINING ADMIXTURES (WHERE REQUIRED) ASTM C260
c. CALCIUM CHLORIDE SHALL NOT BE USED.
3. REINFORCING
a. REBAR - ASTM A615 GRADE 60 (Fy = 60 KSI)
b. WELDED WIRE - ASTM A1064
c. EPOXY - SIMPSON SET-XP (CC-ES-ESR-2508) OR HILTI HIT-RE 500-V3 (CC-ES-ESR-3814)
4. ANCHOR BOLTS/RODS
a. STEEL COLUMN ANCHOR BOLTS/RODS - ASTM F1554 GRADE 36 WITH ASTM A563 HEAVY HEX NUTS AND HARDENED WASHERS.
b. ADHESION (EPOXY) ANCHORS - SIMPSON SET-XP (CC-ES-ESR-2508) OR HILTI HIT-RE 500-V3 (CC-ES-ESR-3814)
c. EXPANSION ANCHORS - SIMPSON STRONG-BOLT (CC-ES-ESR-1771) OR HILTI QUICK BOLT VIZ (CC-ES-ESR-3904)
d. USE OF HOOKED ANCHOR RODS/BOLTS IS LIMITED UNDER THE ACI AND IBC. HEADED ANCHOR BOLTS/RODS MUST BE USED WHERE IDENTIFIED IN THE DETAILS.
B. DETAIL REINFORCING TO COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) RECOMMENDATIONS.
1. MINIMUM CLEAR CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
a. CONCRETE CAST DIRECTLY AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
b. CONCRETE EXPOSED TO WEATHER OR EARTH
b.1. #5 BARS OR SMALLER = 1 1/4"
b.2. #6 BARS OR LARGER = 2"
c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND = 3/4"
d. SLABS ON GRADE - AS SHOWN IN DETAILS. 3/4" MIN. FROM TOP OF SLABS NOT EXPOSED TO WEATHER.
2. LAP SPLICE LENGTHS (UNLESS NOTED OTHERWISE)
a. fc = 2,500-3,500 PSI
a.1. #6 AND SMALLER - 36 BAR DIAMETERS
a.2. #7 AND LARGER - 45 BAR DIAMETERS.
b. fc = 4,000 PSI OR GREATER
b.1. #6 AND SMALLER - 29 BAR DIAMETERS
b.2. #7 AND LARGER - 36 BAR DIAMETERS
c. LAP SPLICE LENGTHS MAY BE DECREASED BY 25% FOR SLABS ON GRADE AND HORIZONTAL WALL REINFORCING.
d. INCREASE LAP SPLICE LENGTHS BY 50% WHERE EPOXY COATED BARS ARE USED.
3. STAGGER SPLICES IN WALL SO THAT NO TWO ADJACENT FORMS ARE SPLICED IN THE SAME LOCATION, UNLESS SHOWN OTHERWISE.
4. MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.
5. VERTICAL BARS IN WALLS, GRADE BEAMS, AND PIERS TO TERMINATE IN FOOTINGS WITH ACI STANDARD HOOKS [12 BAR DIAMETERS] TO WITHIN 4" OF THE BOTTOM OF THE FOOTING UNLESS NOTED OTHERWISE.
6. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE ENDS OF WALLS WITH A 90 DEGREE HOOK PLUS A 6 BAR DIAMETER EXTENSION, UNLESS SHOWN OTHERWISE.
7. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THROUGH CONSTRUCTION AND CONTROL JOINTS.
8. SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED. SPLICES IN TWO CURTAINS (WHERE USED) SHALL NOT OCCUR IN THE SAME LOCATION.
9. USE CHAIRS OR OTHER SUPPORT DEVICES AS REQUIRED FOR PROPER CLEARANCES.
10. REBAR HAIRPINS SHALL BE CENTERED IN SLABS AND SHALL BE WIRE TIED TO THE SLAB REINFORCING (IF ANY). REBAR HAIRPINS SHALL BE CONTINUOUS THROUGH WALLS AND PIERS; LAP SPLICES IN HAIRPINS MAY ONLY OCCUR IN THE FLOOR SLAB UNLESS NOTED OTHERWISE.
C. CONTROL JOINTS IN SLABS ON GRADE ARE RECOMMENDED TO CONTROL CRACKING. SEE PLANS FOR CONTROL JOINT SPACING AND DETAILS.
D. SLABS ON GRADE SHOULD NOT HAVE JOINTS IN A HORIZONTAL PLANE. ALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS.
E. FLOOR SLAB THICKNESS AND REINFORCING SHOWN IN THESE DRAWINGS ARE ADEQUATE TO SUPPORT TYPICAL UNIFORM LOADS ONLY. NOBLES AND ASSOCIATES HAS NOT DESIGNED THE SLAB FOR ANY SPECIFIC CONCENTRATED LOAD SUCH AS THOSE FROM VEHICLES, STORAGE RACKS OR HEAVY EQUIPMENT. (UNLESS NOTED OTHERWISE)
F. WELDING OF REBAR IS NOT ALLOWED UNLESS SPECIFICALLY INDICATED HEREIN. ALL EMBEDMENTS, REINFORCING, AND DOWELS SHALL BE SECURELY TIED TO FRAMEWORK OR TO ADJACENT REINFORCING PRIOR TO PLACEMENT OF CONCRETE. TACK-WELDING OF REBAR JOINTS IN GRADE-BEAMS, WALLS, OR CAGES IS NOT ALLOWED, WHERE WELDING OF REBAR IS SHOWN IN THE DRAWINGS, ALL REBAR TO BE WELDED SHALL BE IN ACCORDANCE WITH ASTM A706, GRADE 60

SPECIAL INSPECTIONS

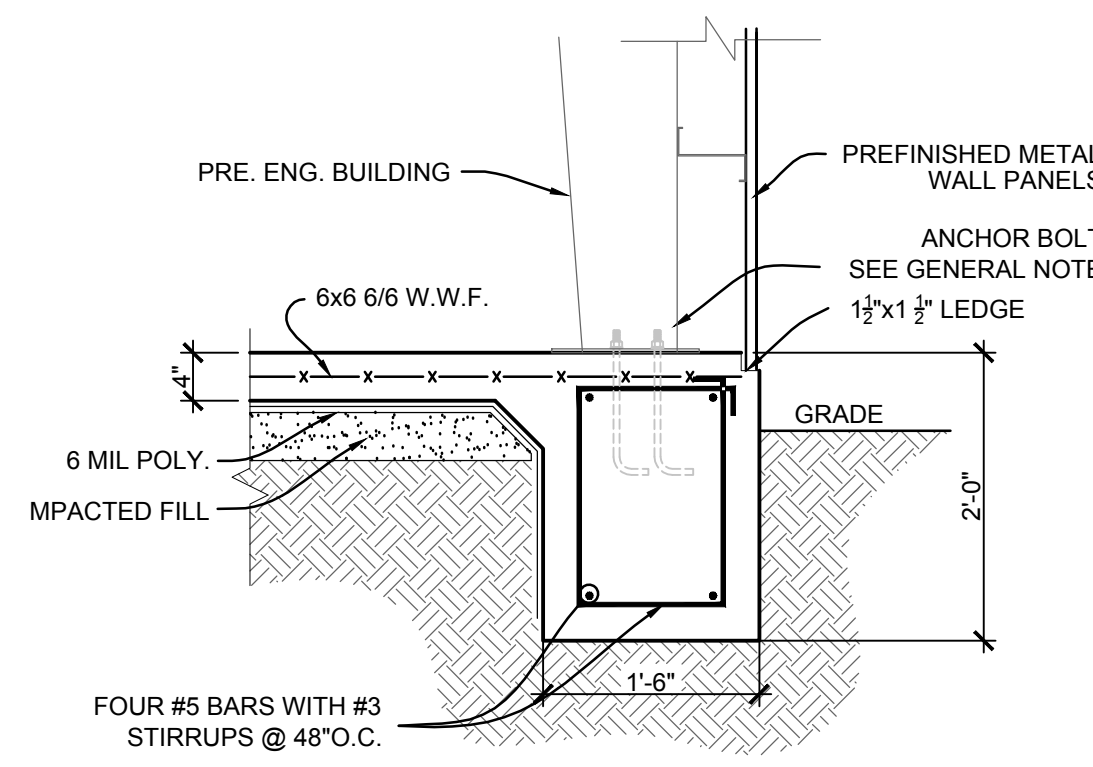
- A. CONCRETE
1. SPOT FOOTINGS - NOT REQUIRED (IBC 1705.3 EXCEPTION 1)
2. CONTINUOUS FOOTINGS - REQUIRED (IBC 1705.3.2)
3. SLABS - NOT REQUIRED (IBC 1705.3 EXCEPTION 3)
4. GRADE BEAMS - REQUIRED (IBC 1705.3 EXCEPTION 4)
5. WALLS - NOT REQUIRED (IBC 1705.3 EXCEPTION 4)
6. ANCHOR BOLTS/RODS - REQUIRED (IBC TABLE 1705.3) SPECIAL INSPECTION MAY BE REQUIRED. SUBJECT TO APPROVAL OF BUILDING OFFICIAL.
B. STEEL REINFORCEMENT
1. PLACEMENT - THIRD PARTY SPECIAL INSPECTION OF REINFORCING PLACEMENT NEED ONLY BE PERFORMED WHERE SPECIFICALLY REQUIRED BY BUILDING OFFICIAL.
2. WELDING - SPECIAL INSPECTION OF REBAR WELDING IS REQUIRED. (IF USED)

MISCELLANEOUS

- A. DO NOT SCALE DRAWINGS.
B. NO FIELD SUPERVISION OR CONTRACT ADMIN. WILL BE PROVIDED BY THE ENGINEER.
C. THE FOUNDATION HEREIN MEETS THE MINIMUM REQUIREMENTS OF THE IBC AND THE ACI GUIDELINES FOR DESIGN OF SLABS ON GROUND (ACI 360).
D. CONTRACTOR SHALL PLACE FORMS IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND VERIFY ALL DIMENSIONS, OFFSETS, DROPS, INSERTS, BRICK LEDGES AND BLOCK OUTS PRIOR TO CONSTRUCTION.
E. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VARIATIONS IN DIMENSIONS.
F. CONTRACTOR SHALL REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AS THEY AFFECT THE OVERALL PROJECT.
G. THE ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS SUCH CHANGES ARE AUTHORIZED IN WRITING BY ENGINEER.
H. REFER TO METAL BUILDING PLAN FOR ANCHOR BOLT SIZING, LOCATION AND SPECIAL DETAILS.

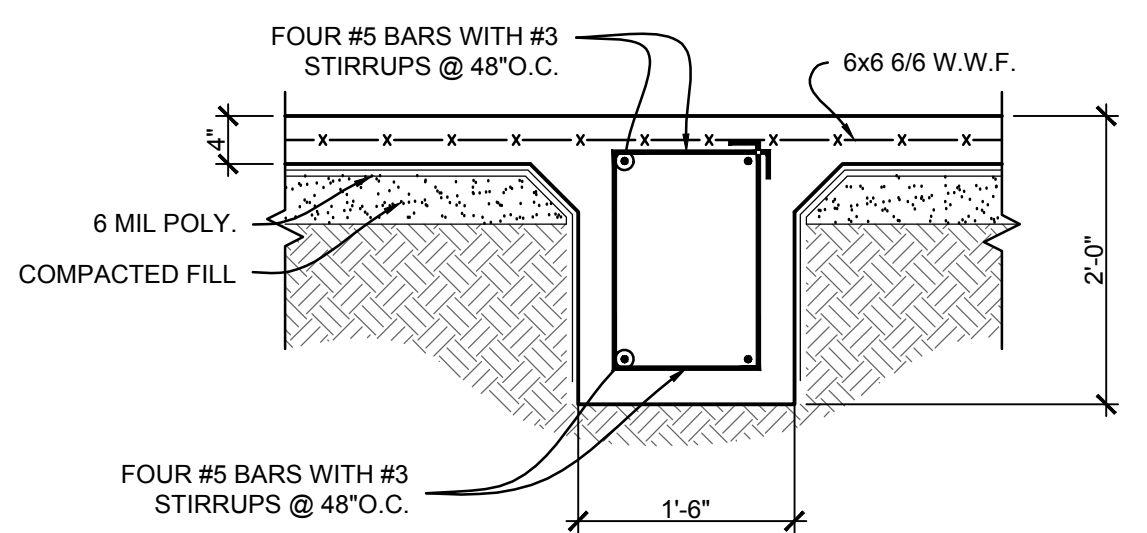
LEGEND

- EDGE OF GRADE BEAM (FOOTING)
LOCATION OF ELEVATION CHANGE
AREA OF NEW FOUNDATION LEDGE



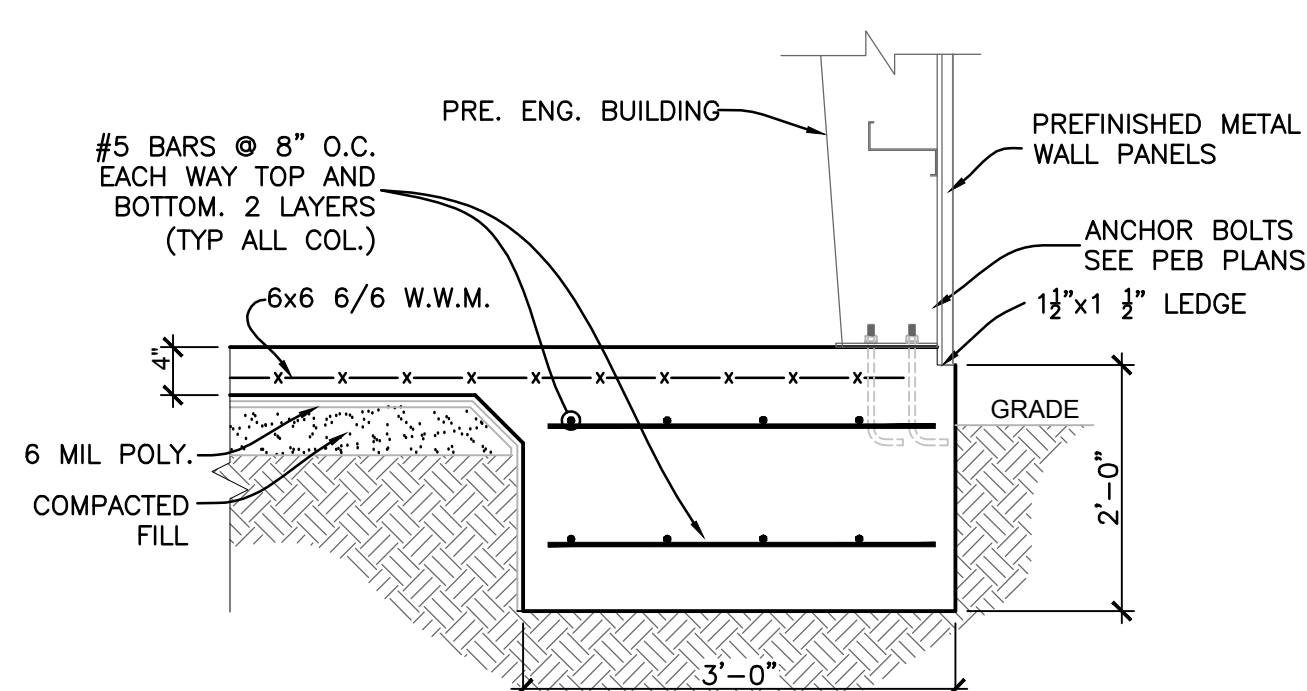
1 EXTERIOR GRADE BEAM

S101 SCALE: NTS



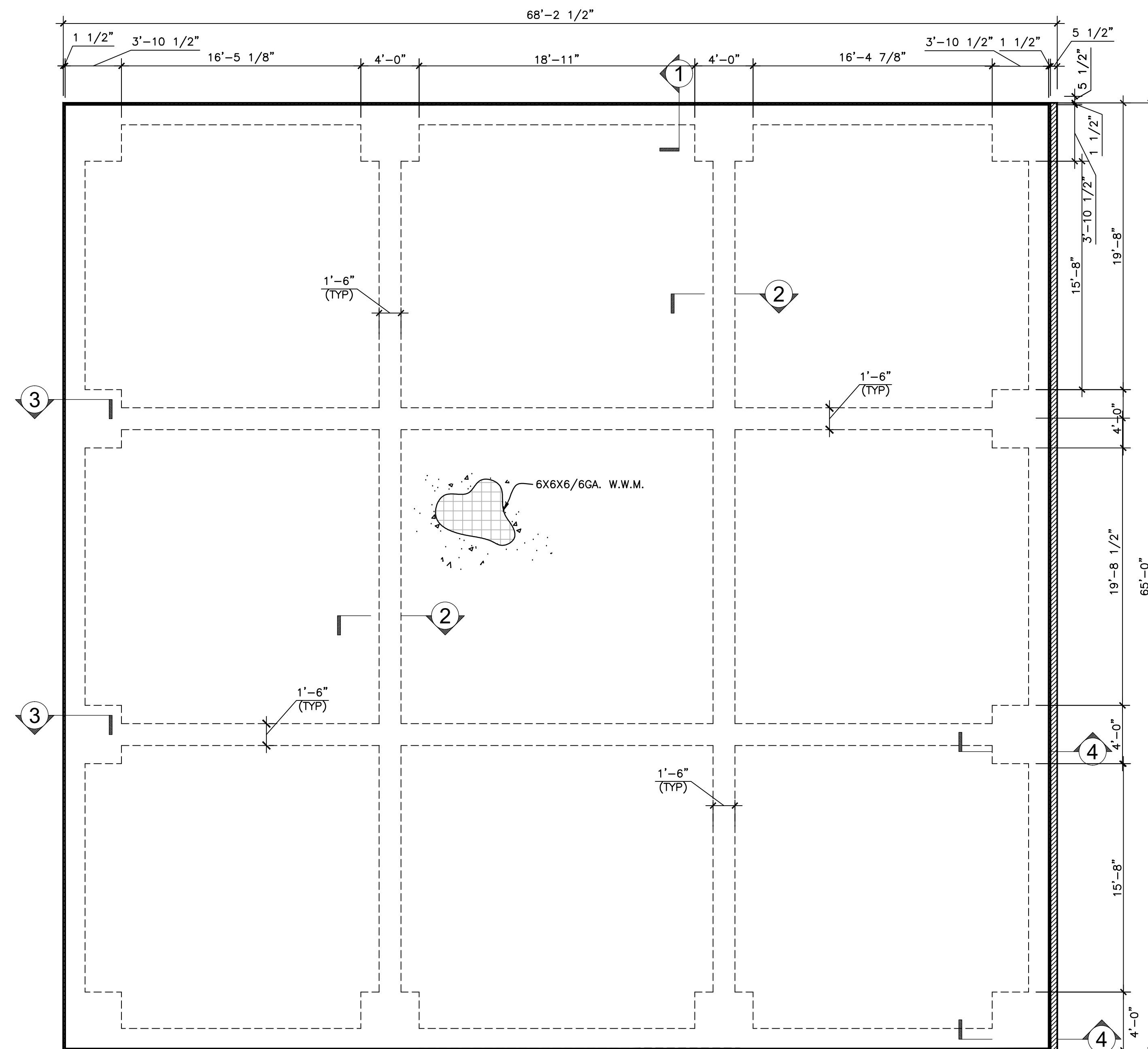
2 INTERIOR GRADE BEAM

S101 SCALE: NTS



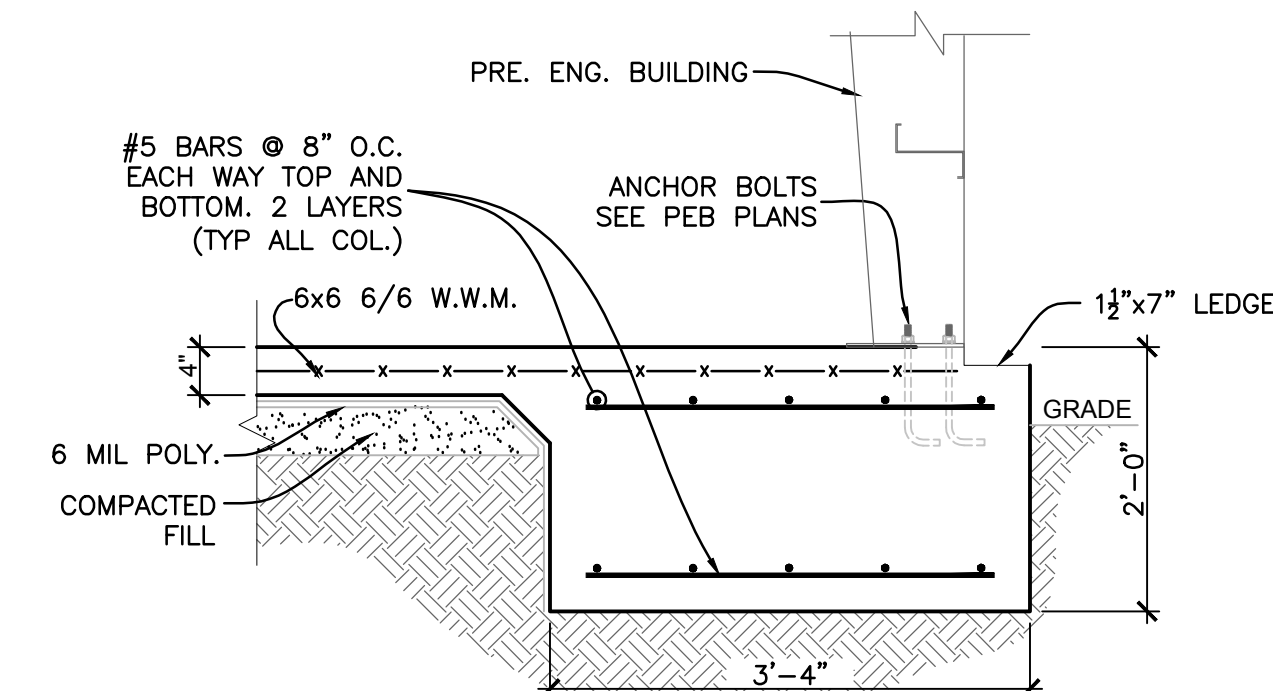
3 EXPANDED FOOTING AT COLUMN

S101 SCALE: NTS



A FOUNDATION PLAN

S101 SCALE: 3/16"=1'-0"



4 EXPANDED FOOTING AT COLUMN

S101 SCALE: NTS

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Table with columns: Rev. No., Date, Description

ENGINEER OF RECORD
NAME: GEORGE NOBLES
NUMBER: 31767
FOUNDATION PLAN

Table with columns: Job No., Dwn., Date, Chk., GBN, Rev. 0

S101
Sheet 1 Of

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