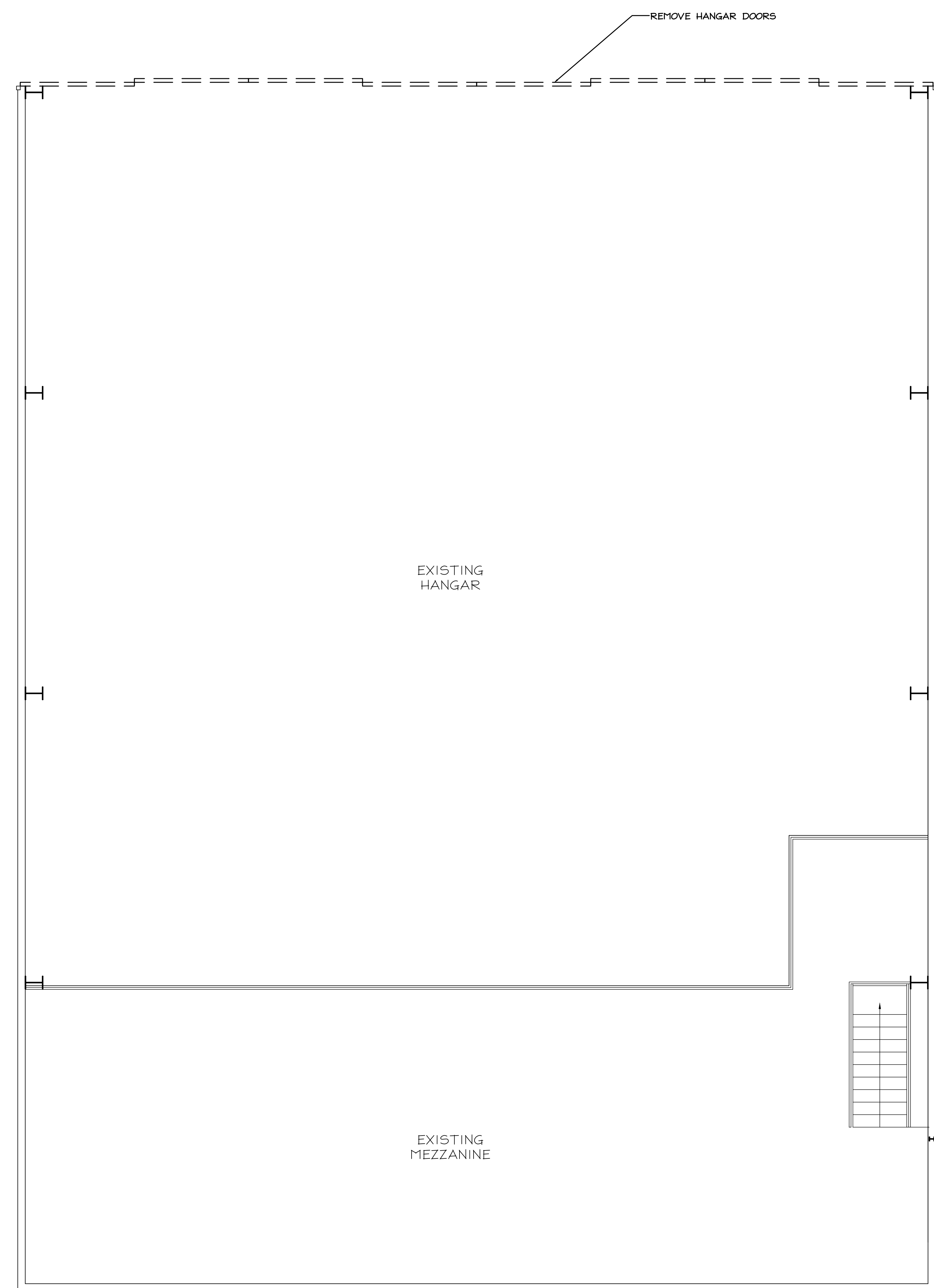


RENOVATION
AT
WOODBINE MUNICIPAL AIRPORT
HANGAR #5
675 HENRY DECINQUE BLVD.
WOODBINE, NJ 08270


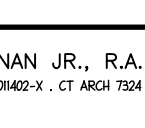
ABBREVIATIONS	SYMBOLS	LOCATION MAP	DRAWING INDEX	CODE INFORMATION
<div><div><div>AL. TH.</div><div>B.P.</div><div>BRG.</div><div>BRK.</div><div>CAB.</div><div>C.A.B.C.</div><div>CARP.</div><div>C.B.</div><div>C.J.</div><div>C.L.</div><div>C.L.</div><div>C.L.L.</div><div>C.L.R.</div><div>C.I.</div><div>C.M.U.</div><div>C.O.</div><div>C.O.L.</div><div>CONC.</div><div>CONT.</div><div>CONTR.</div><div>CORR.</div><div>CORRU.</div><div>C.S.</div><div>C.S.P.</div><div>C.T.</div><div>C.T.C.B.</div><div>C.K.</div><div>DEPO.</div><div>DIA.</div><div>D.F.</div><div>D.L.</div><div>DR.</div><div>DNG.</div><div>EA.</div><div>E.C.</div><div>ELEV.</div><div>E. PNL.</div><div>EQUP.</div><div>EMC.</div><div>EXP. JT.</div><div>EXH.</div><div>EXIST'G</div><div>E.T.R.</div><div>F.A.B.C.</div><div>F.B.</div><div>F.D.</div><div>F.E.</div><div>FIN. FL.</div><div>FIN. GR.</div><div>FL.</div><div>FL'G.</div><div>FDN.</div><div>FTG.</div><div>GYP.</div><div>HRD. 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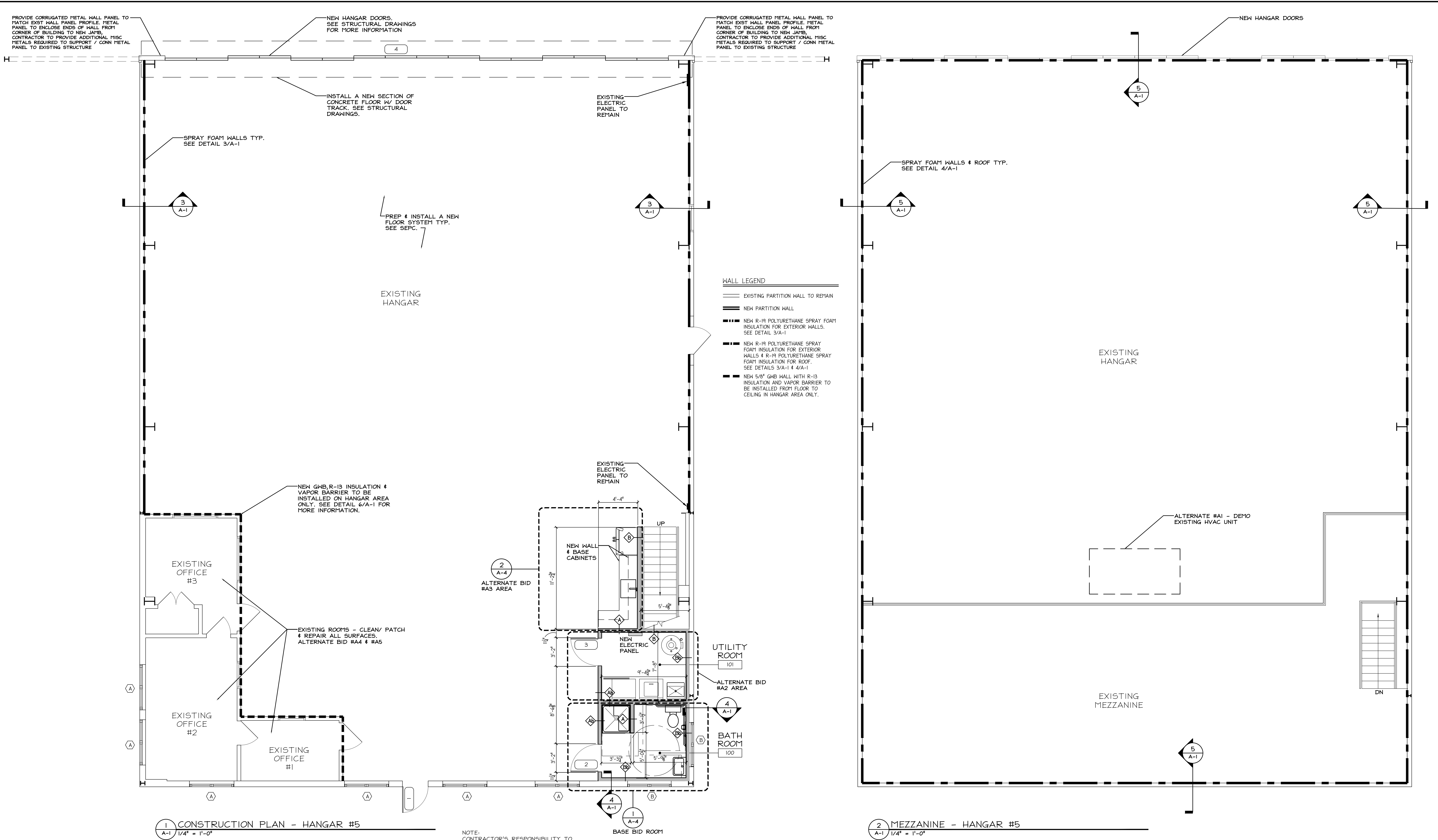


2 DEMOLITION PLAN - HANGAR #5
D-1 1/4" = 1'-0"

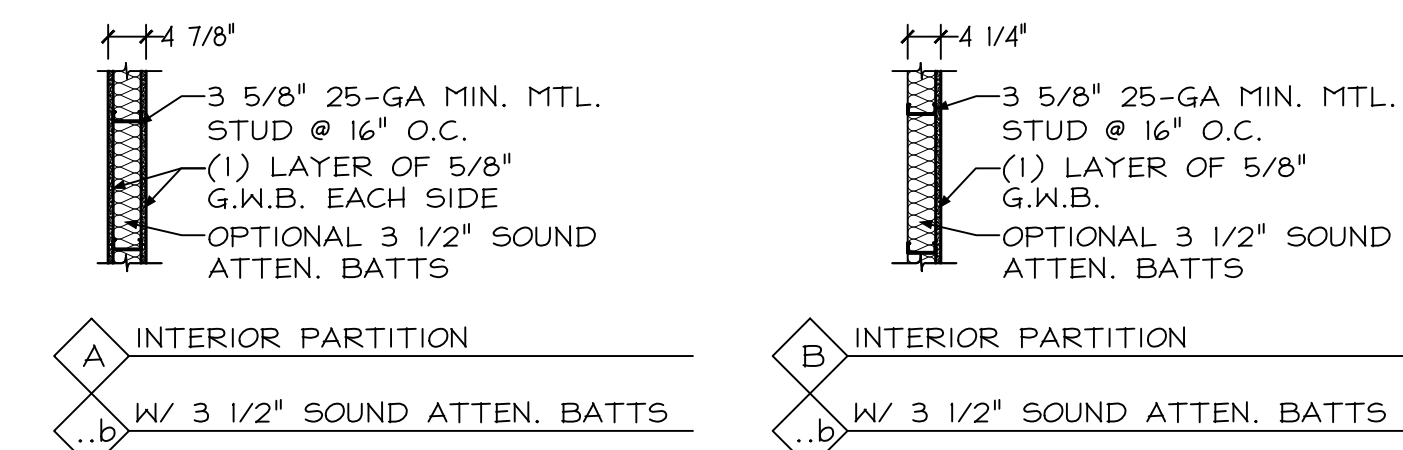
A vertical section line is shown with a break symbol at the top. The left side is labeled OFFICE and the right side is labeled HANGAR. On the left, two lines point to the wall assembly with the labels "EXISTING GWB TO REMAIN" and "EXISTING STUD TO REMAIN". On the right, a line points to the ceiling assembly with the label "EXISTING GWB TO BE REMOVE ON THIS SIDE ONLY. SEE DETAIL 6/A-1 FOR MORE INFORMATION".

- WALLS SECTION
1-1/2" = 1'-0"

5/9/2025		ISSUED FOR BD		
No.	DATE	DESCRIPTION		REV'D BY
		REVISIONS		
APPROVAL:		PROJECT: RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECADINE BLVD. WOODBINE, NJ 08070		
 Joseph F. McKernan Jr., Architects & Associates 100 bobs lane Suite 204 Cherry Hill, New Jersey 08004		TITLE: DEMOLITION PLANS HANGAR #5		
JOSEPH F. MCKERNAN JR., P.E. 50 ARCADE A 1984 - 675 HENRY DECADINE BLVD. - LOT 204		SCALE: AS NOTED BRDLNO: 1/36 DATE: 05/04/2005 REV'D: DRAWN BY: DR GKO:ST: GG D-1		
SEAL: 		INDICATING NOT BE EXCEED BY (CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING REGULATIONS SET BY THE LOCAL JURISDICTION		
DESIGN, PREPARE & MARK				



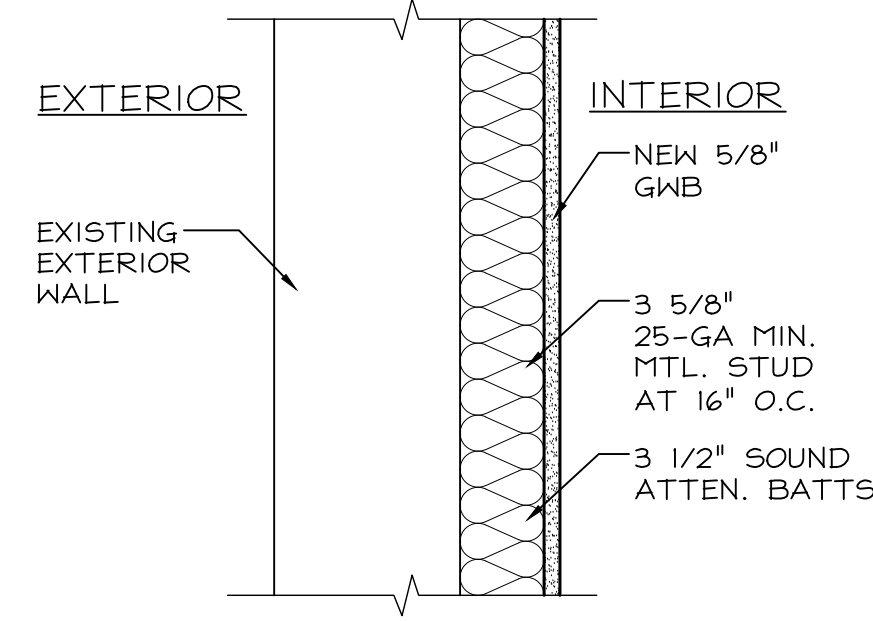
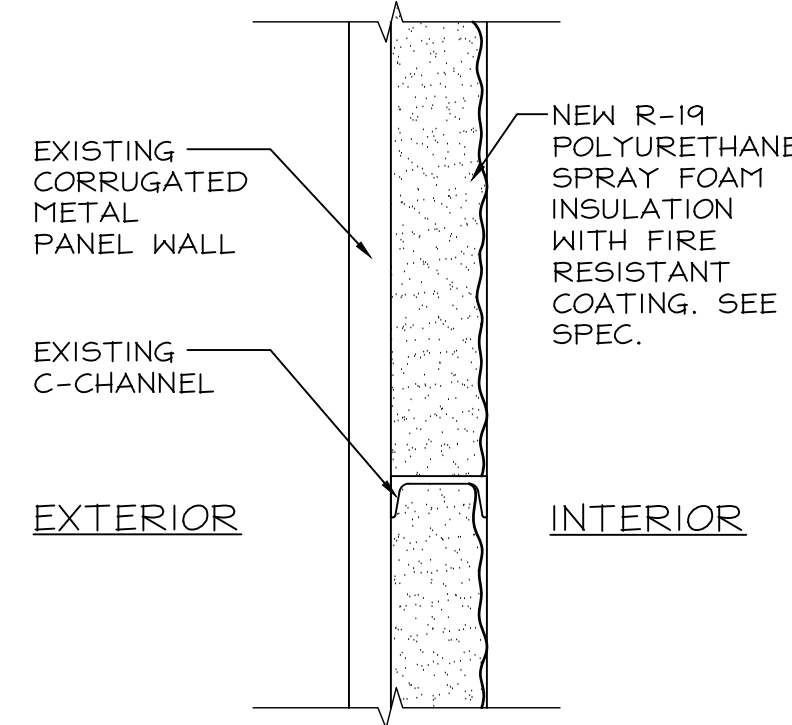
TYPICAL INTERIOR PARTITIONS: (PLAN VIEW)



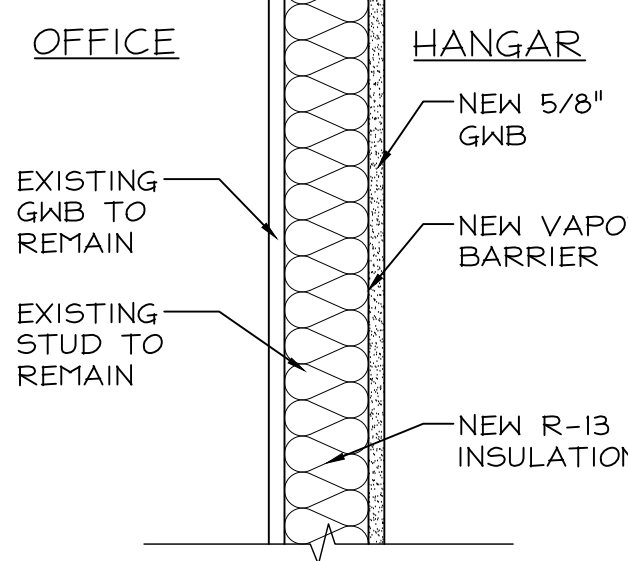
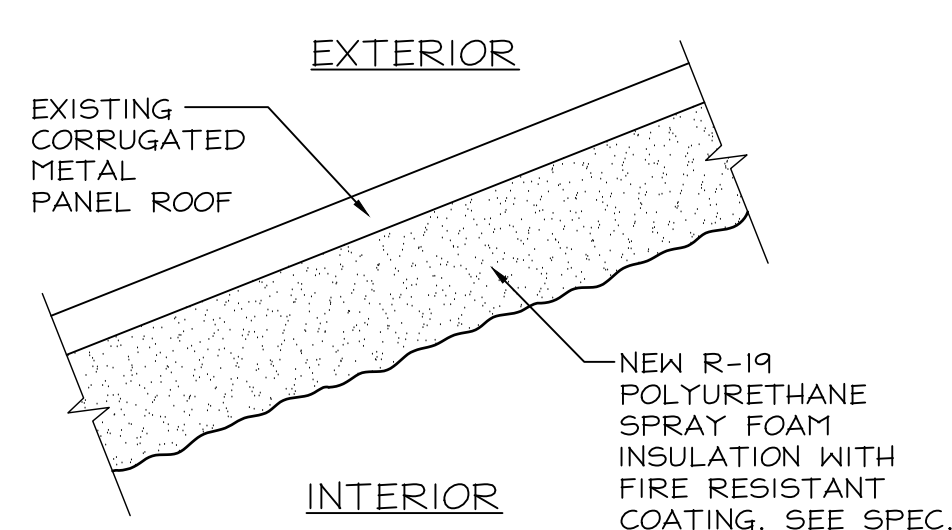
GENERAL CONSTRUCTION NOTES

- CONTRACTOR TO VERIFY OR ESTABLISH ALL DIMENSIONS, ELEVATIONS AND CONDITIONS IN THE FIELD. ALL DIMENSIONS ARE TO THE FACE OF METAL STUD.
- CONTRACTOR TO CONFORM TO ALL APPLICABLE CODES. OBTAIN ALL PERMITS AS REQUIRED.
- PAIN ALL NEW AND EXISTING WALLS AT AREAS OF NEW WORK, WITH ONE COAT PRIMER AND TWO COATS FINISH PAINT (U.N.O.).
- PROVIDE DOUBLE STUDS AT ALL DRYWALL OPENINGS.
- CONTRACTOR TO SUBMIT SAMPLES OF FLOORING, WINDOWS AND FINISHES, ETC. FOR OWNER'S APPROVAL PRIOR TO INSTALLATION.
- SEE SHEET A-3 FOR WINDOW TYPE & INFORMATION.

NOTE: CONTRACTOR'S RESPONSIBILITY TO INSURE EXISTING HANGAR WALLS & CEILING CAN SUPPORT THE WEIGHT OF NEW R-19 INSULATION.



NOTE: CONTRACTOR'S RESPONSIBILITY TO INSURE EXISTING HANGAR WALLS & CEILING CAN SUPPORT THE WEIGHT OF NEW R-19 INSULATION.



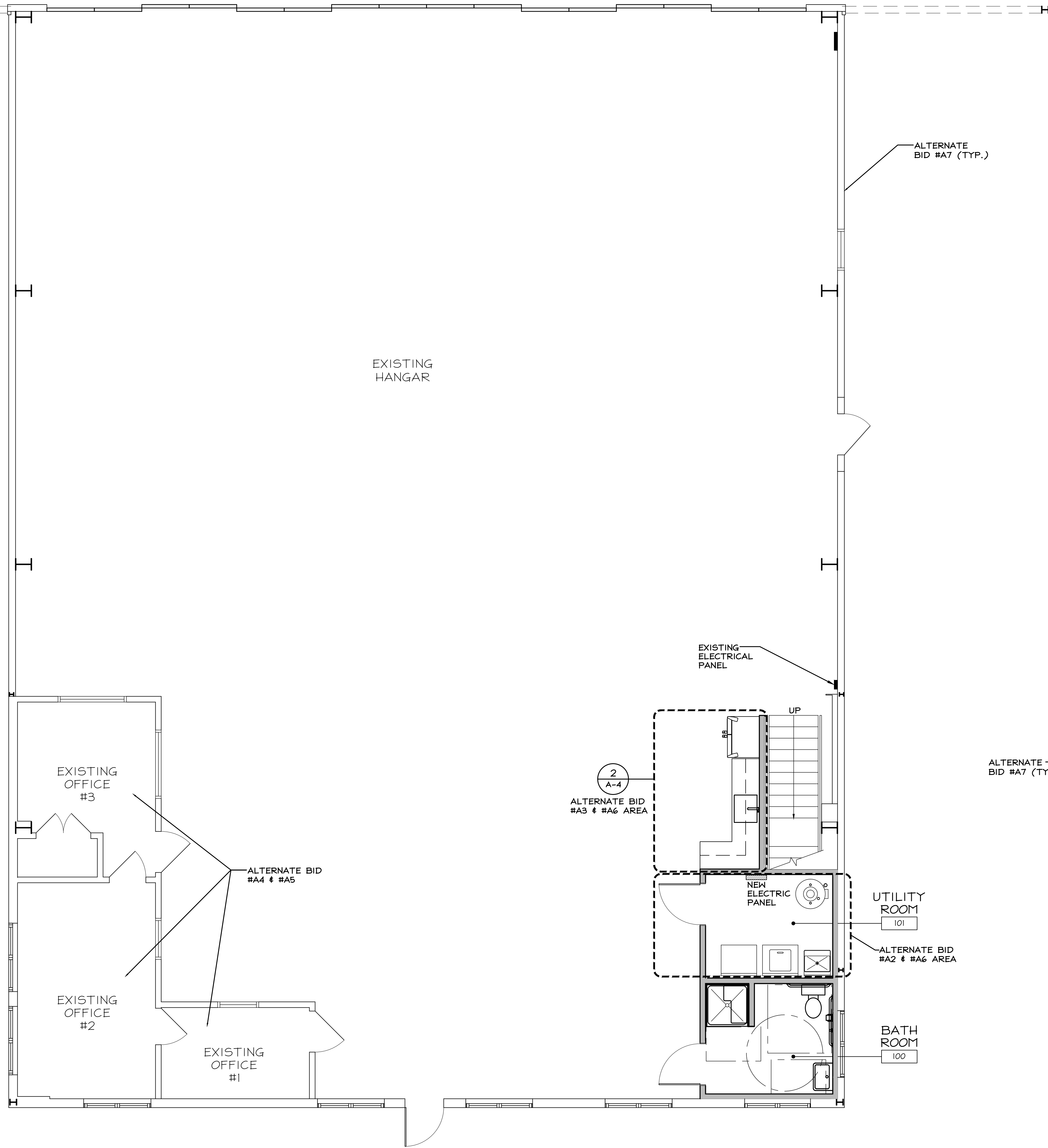
3 TYPICAL SECTION AT EXTERIOR WALLS
A-1 1-1/2" = 1'-0"

4 WALLS SECTION
A-1 1-1/2" = 1'-0"

5 TYPICAL SECTION AT ROOF
A-1 1-1/2" = 1'-0"

6 WALLS SECTION
A-1 1-1/2" = 1'-0"

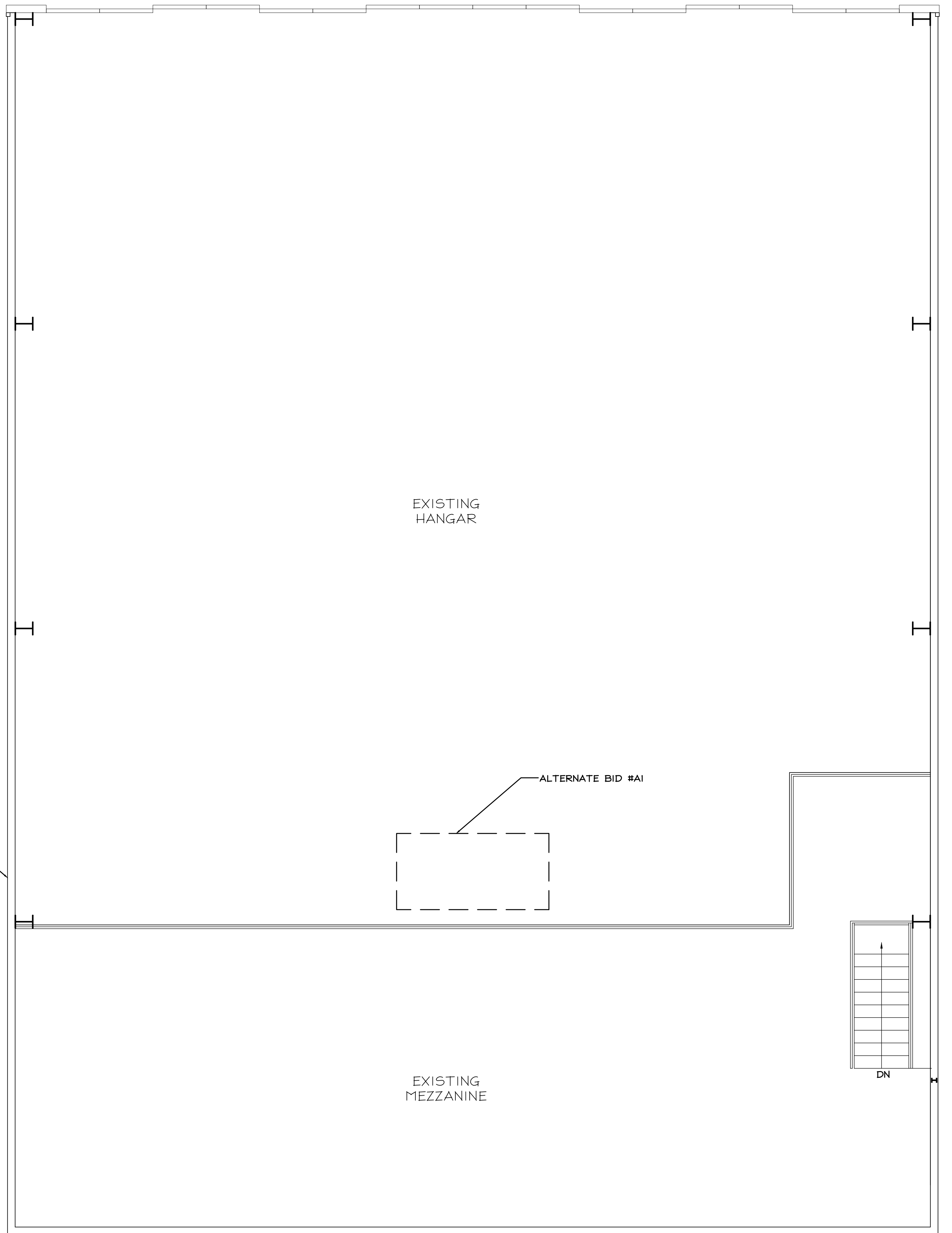
5/9/2025		ISSUED FOR BID	
No.	DATE	DESCRIPTION	REV'D BY
APPROVAL:		PROJECT:	REVISIONS
		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECINQUE BLVD. WOODBINE, NJ 08270	
Joseph F. McKernan Jr., R.A. 100 Dobbie Lane, Suite 204, Cherry Hill, New Jersey 08034		TITLE:	CONSTRUCTION FLOOR PLANS HANGAR #5
SEAL:		SCALE: AS NOTED	DRAWING NO:
PROJNO: 1336		DATE: 05/09/2025	REV'D:
DRAWN BY: DR		CHECKED BY: DG	



1 CONSTRUCTION PLAN - HANGAR #5 (ALTERNATES)
A-1 1/4" = 1'-0"

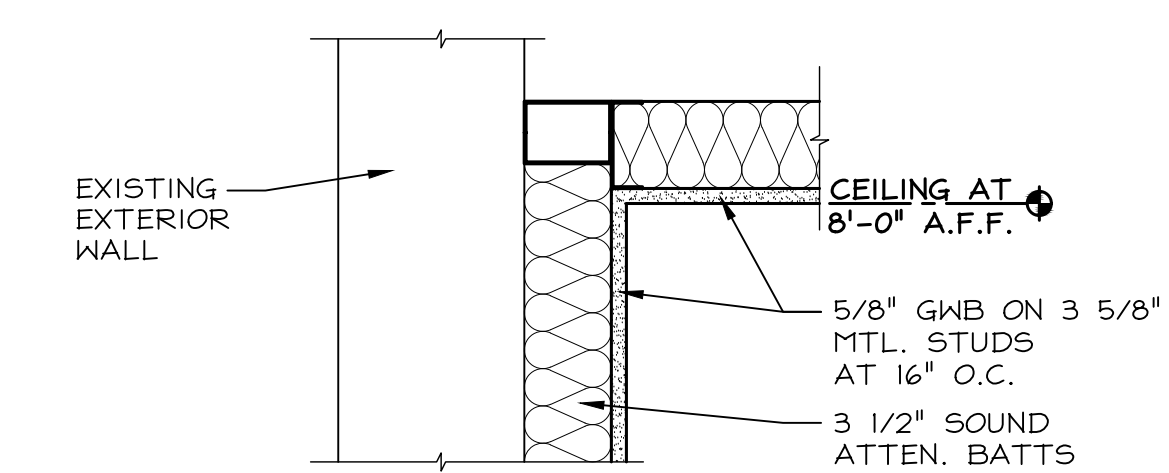
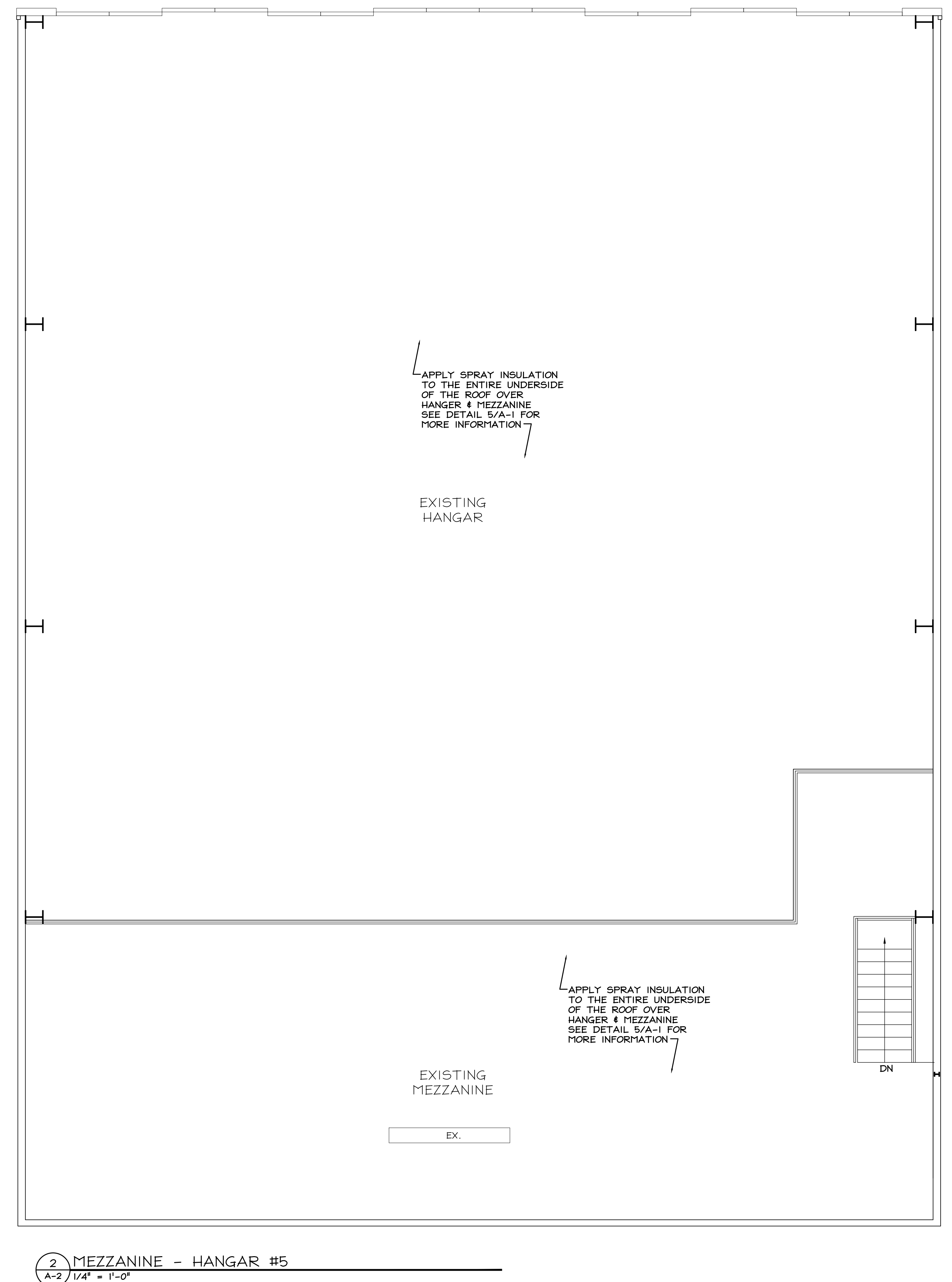
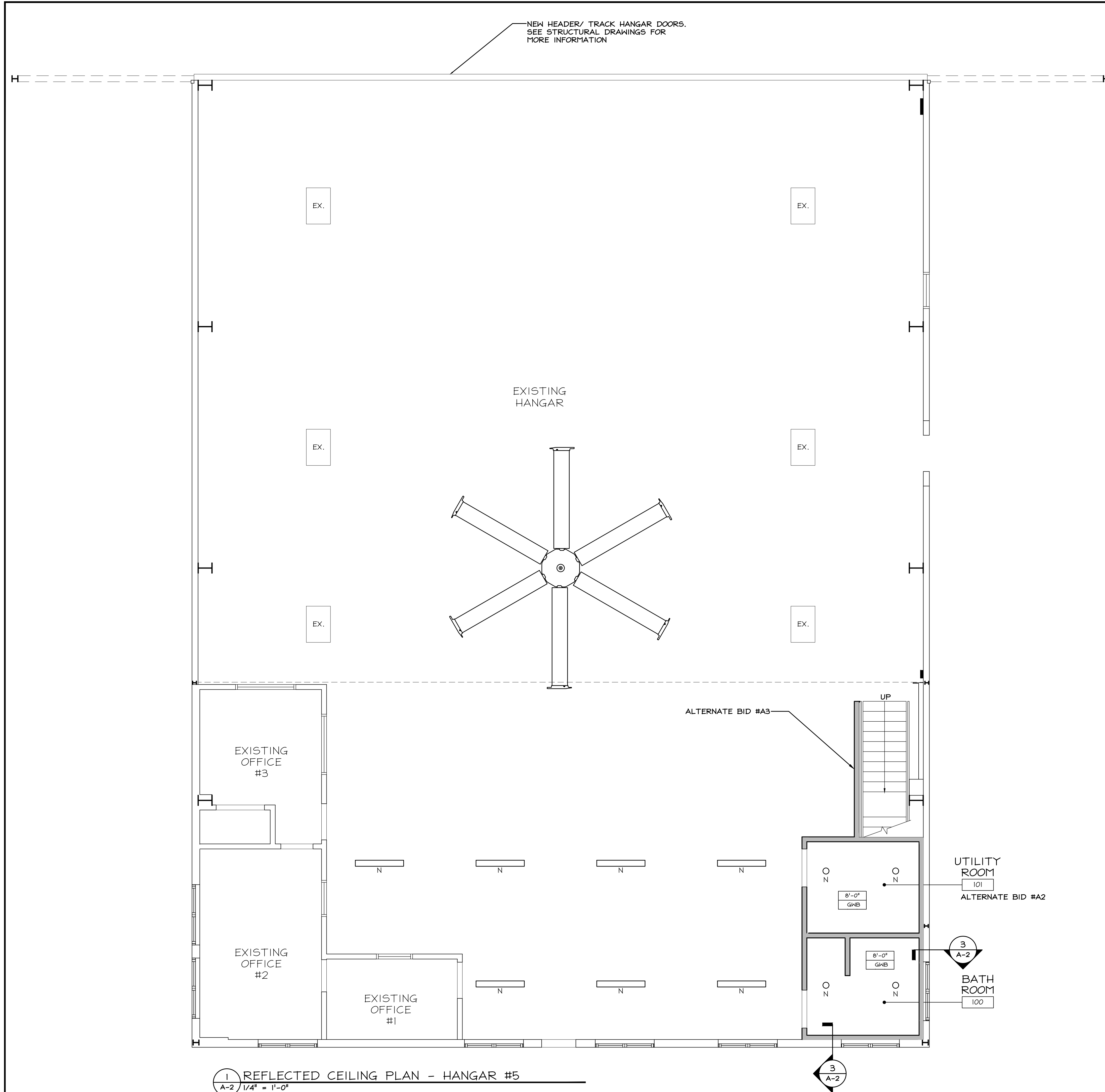
ALTERNATE LEGEND

- A1-DEMOLITION OF EXISTING UNUSED HEATER ON MEZZANINE.
A2-CONSTRUCTION OF NEW UNITY ROOM WITH WASHER, DRYER AND UTILITY SINK.
A3-CONSTRUCTION OF NEW KITCHENETTE CABINETS (ALL APPLIANCES ARE AT THE TENANT'S EXPENSE)
A4-PAINT, PATCH & REPAIR WALLS IN EXISTING OFFICES.
A5-INSTALLATION OF NEW FLOORING IN OFFICES
A6-STUB-IN ELECTRIC AND PLUMBING FOR FUTURE UTILITIES
A7-TREAT & PAINT ENTIRE EXTERIOR WALLS OF HANGAR. EXCEPT NEW DOOR



2 MEZZANINE - HANGAR #5 (ALTERNATES)
A-1 1/4" = 1'-0"

5/9/2025		ISSUED FOR BID	
No.	DATE	DESCRIPTION	REV'D BY
		REVISIONS	
APPROVAL:		PROJECT:	
		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECINGUE BLVD. WOODBINE, NJ 08270	
Joseph F. McKernan Jr., Architects & Associates 100 Dobbie Lane, Suite 204, Cherry Hill, New Jersey 08234		TITLE: ALTERNATES HANGAR #5	
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AT. 000411 - PR. ARCH. REG. 000224 - CT. ARCH. 1024		SCALE: AS NOTED PROJ. NO.: 1936 DATE: 05/09/2025 REV'D: DRAWN BY: DR CHECKED BY: OG	
SEAL:		DRAWING NO.: A1.1	

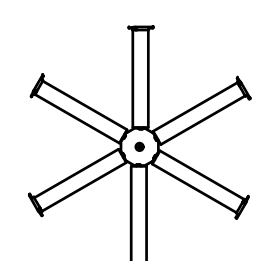


LIGHTING FIXTURE LEGEND

$$\text{O}$$

NEW 6" RECESSED
LED LIGHTING FIXTURE

NEW LED STRIP
LIGHTING FIXTURE



NEW CEILING FAN.
SEE MEP DRAWINGS
FOR MORE INFORMATION

EX.


EXISTING SURFACE
MOUNTED LED
LIGHTING FIXTURE

EX.

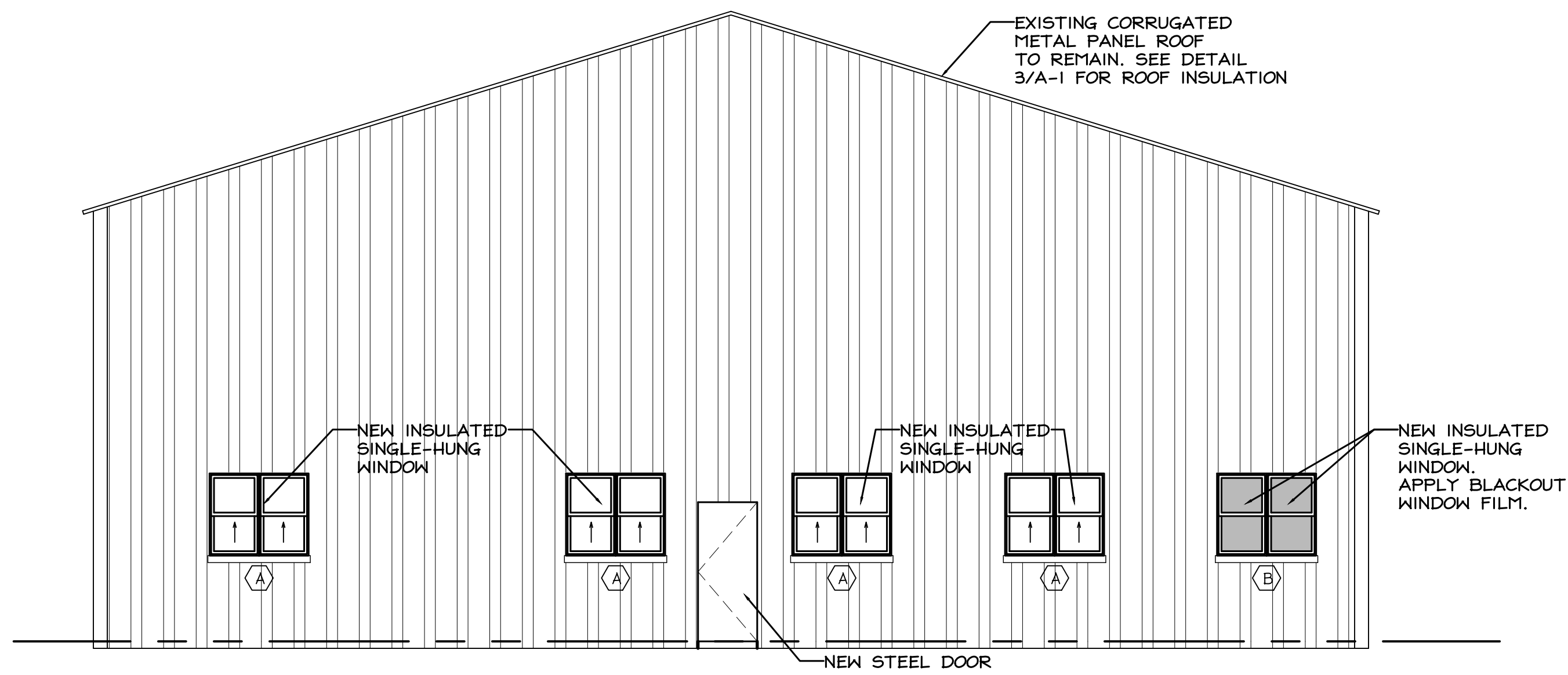
EXISTING SURFACE
MOUNTED LIGHT
IN HANGAR AREA

NOTES:

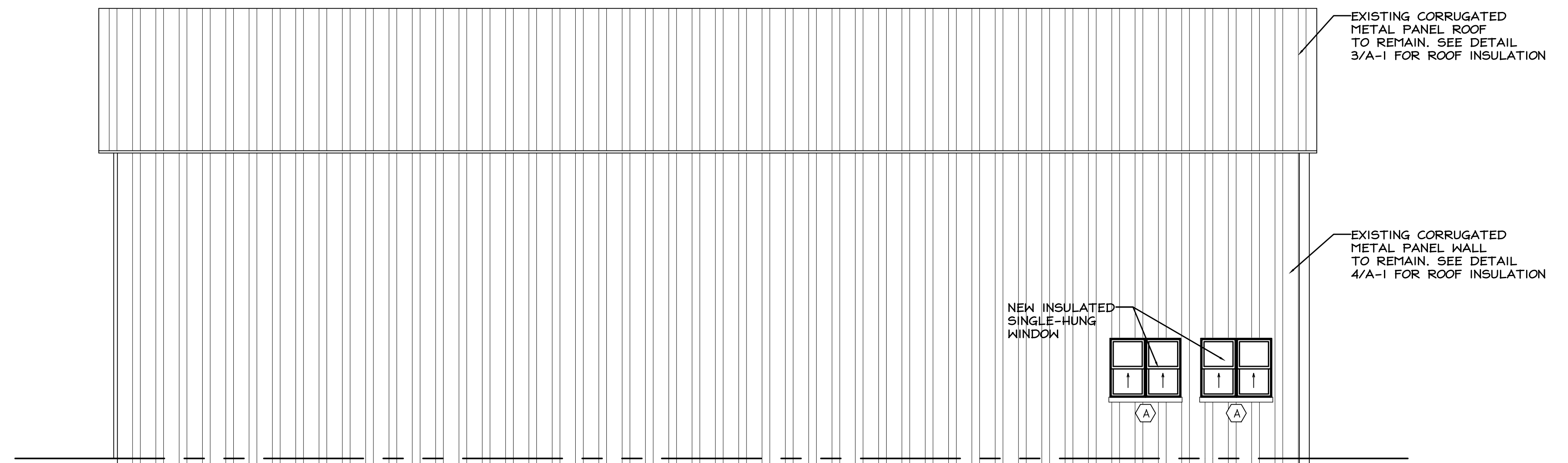
I. SEE MPE DRAWINGS FOR LOCATIONS OF DIFFUSERS, REGISTERS, RETURNS, ETC.

	5/9/2025	ISSUED FOR BID	
No.	DATE	DESCRIPTION	REV'D BY
REVISIONS			
APPROVAL:	PROJECT:		
<p align="center">RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DEQUAIN BLVD. WOODBINE, NJ 08020</p>			
 <p>Joseph F. McKernan Jr., Architects & Associates 100 BIA Lane Suite 204 Cherry Hill, New Jersey 08004</p>		<p>TITLE: REFLECTED CEILING PLAN HANGAR #5</p>	
<p>DATE: N.J. ARCH. ACT 1968 - PA. 1968-10-01-02-03 - CT. 1968-10-01</p>		<p>SCALE: 1"=8'-0"</p> <p>DATE: 06/04/2025</p> <p>REVISIONS:</p> <p>DESIGNER & CHECKER:</p>	<p>SCALE: AS NOTED</p> <p>DRAWING NO.:</p> <p>PROJECT: 1536</p> <p>DATE: 06/04/2025</p> <p>REVISIONS:</p> <p>DRAWN BY: DG</p> <p>CHECKED BY: DG</p>
		<p align="right">A-2</p>	

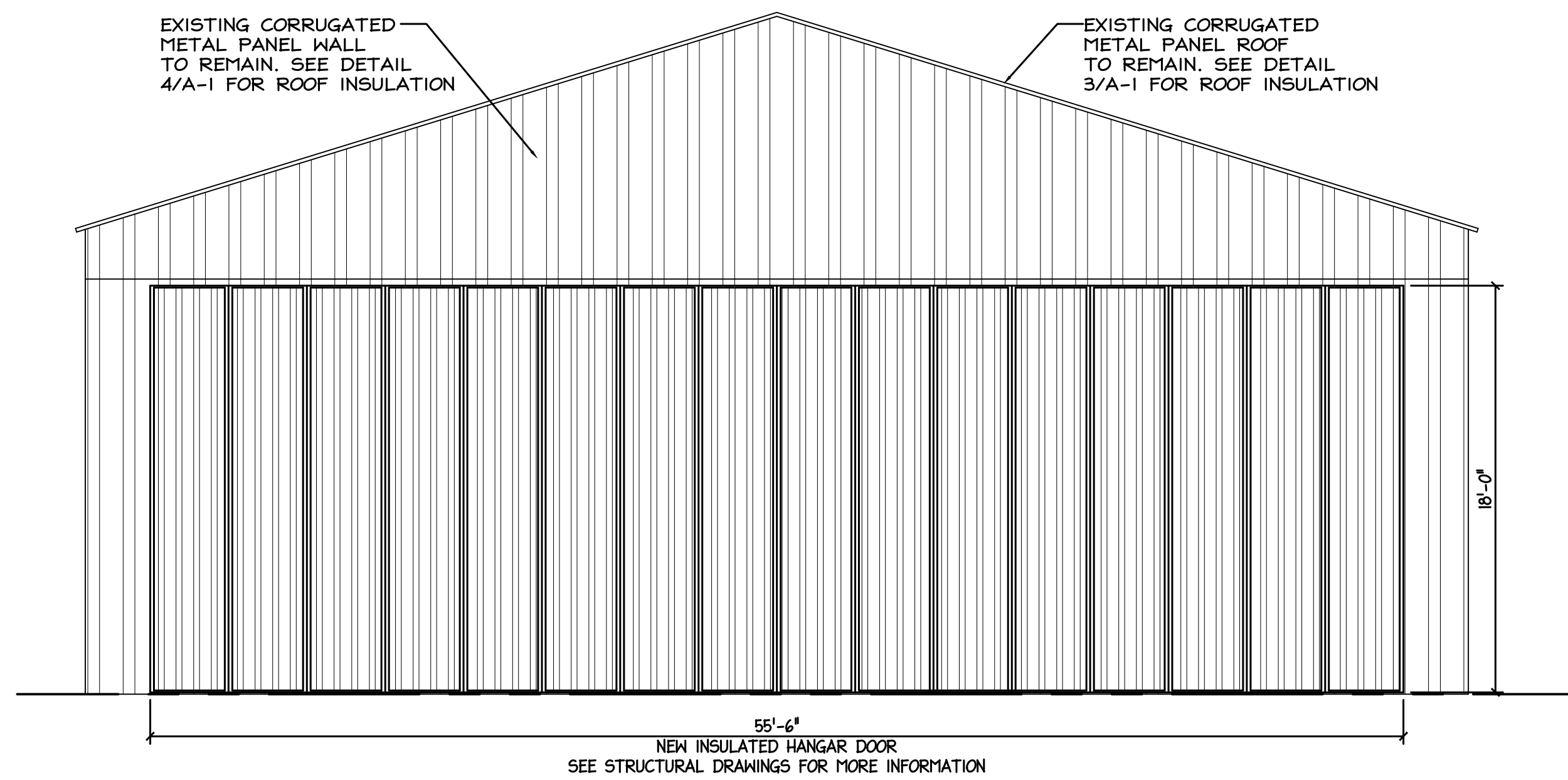
A-2



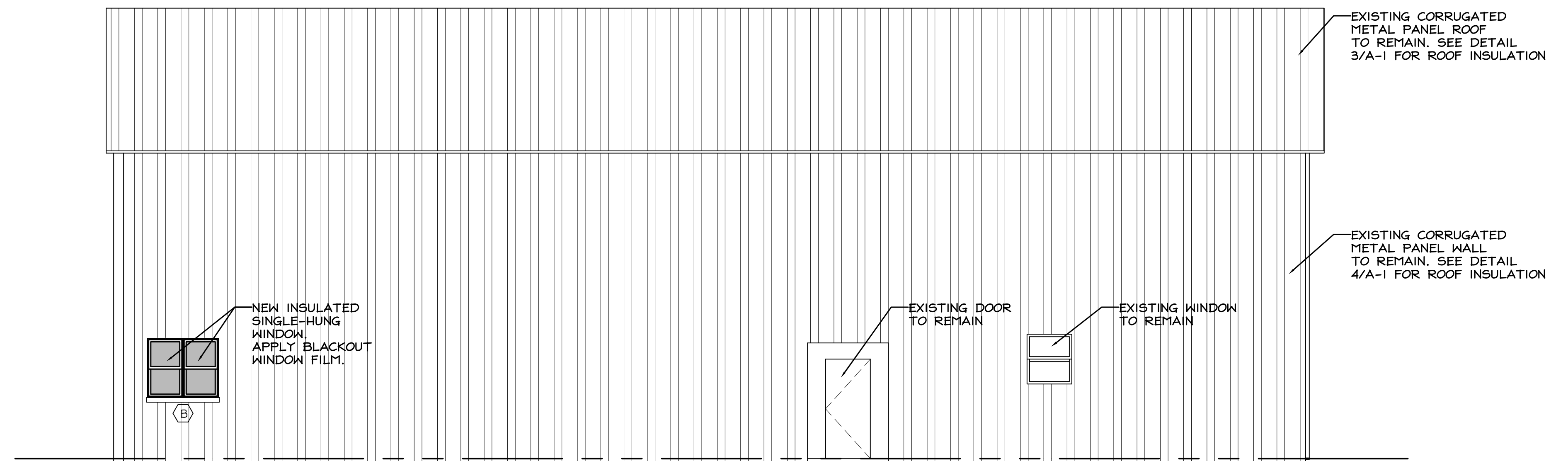
1 ELEVATION - HANGAR #5
A-3 3/16" = 1'-0"



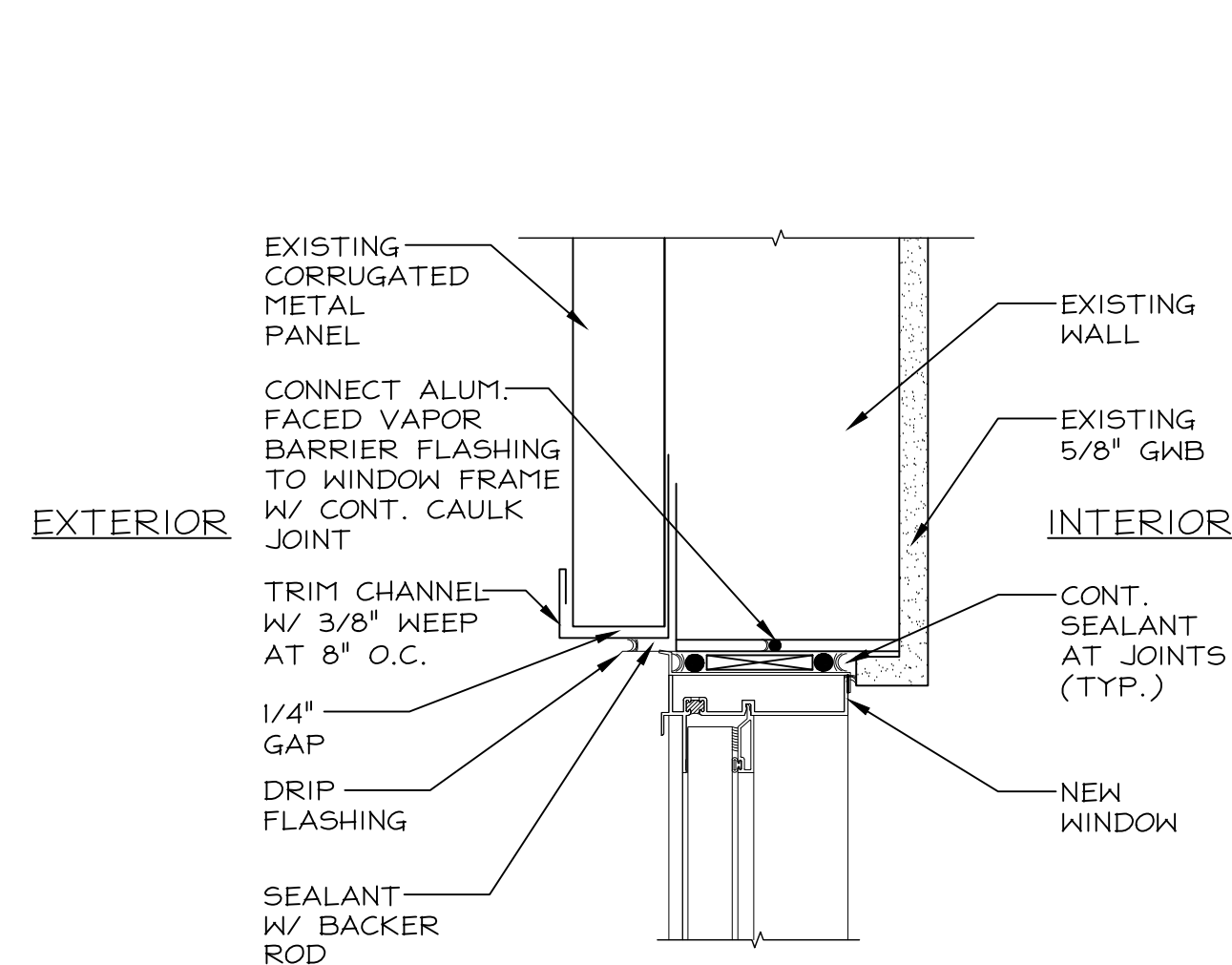
2 ELEVATION - HANGAR #5
A-3 3/16" = 1'-0"



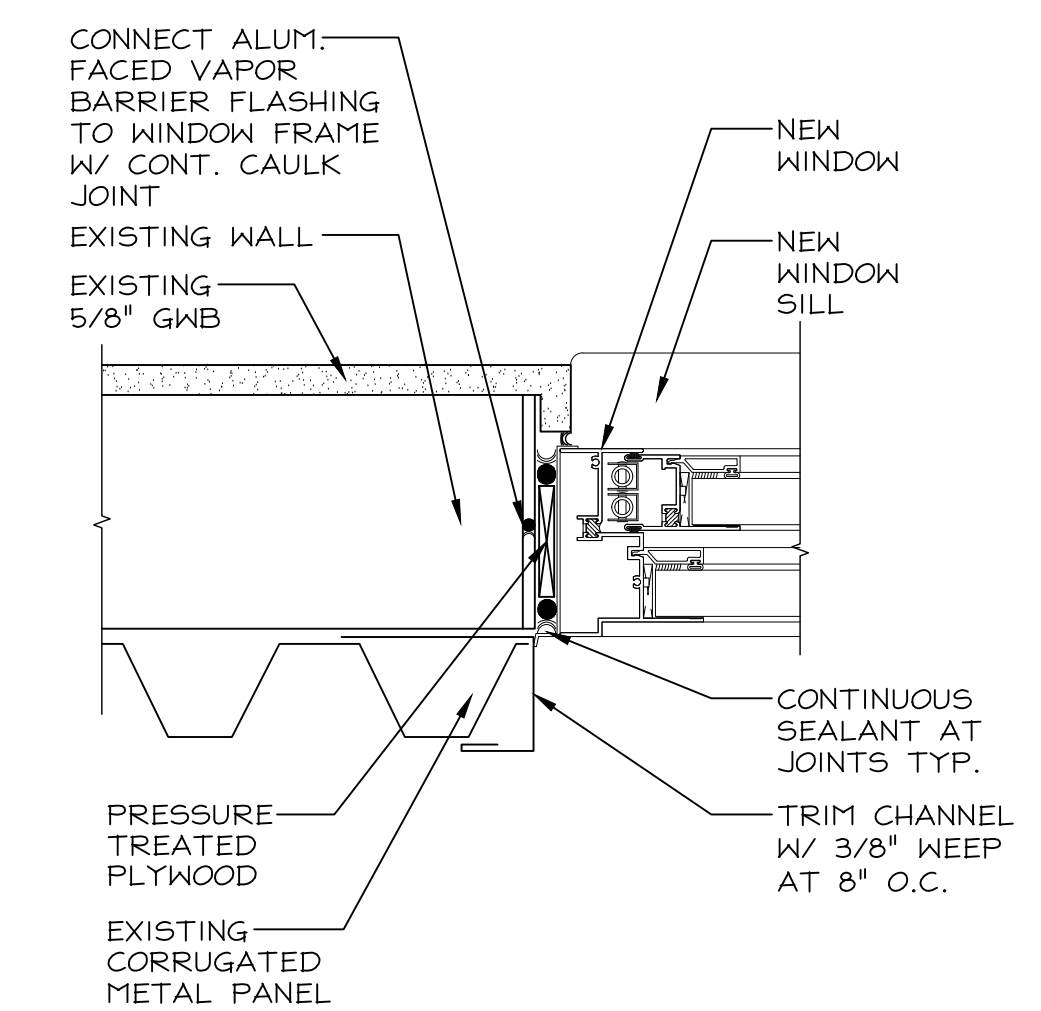
3 ELEVATION - HANGAR #5
A-3 3/16" = 1'-0"



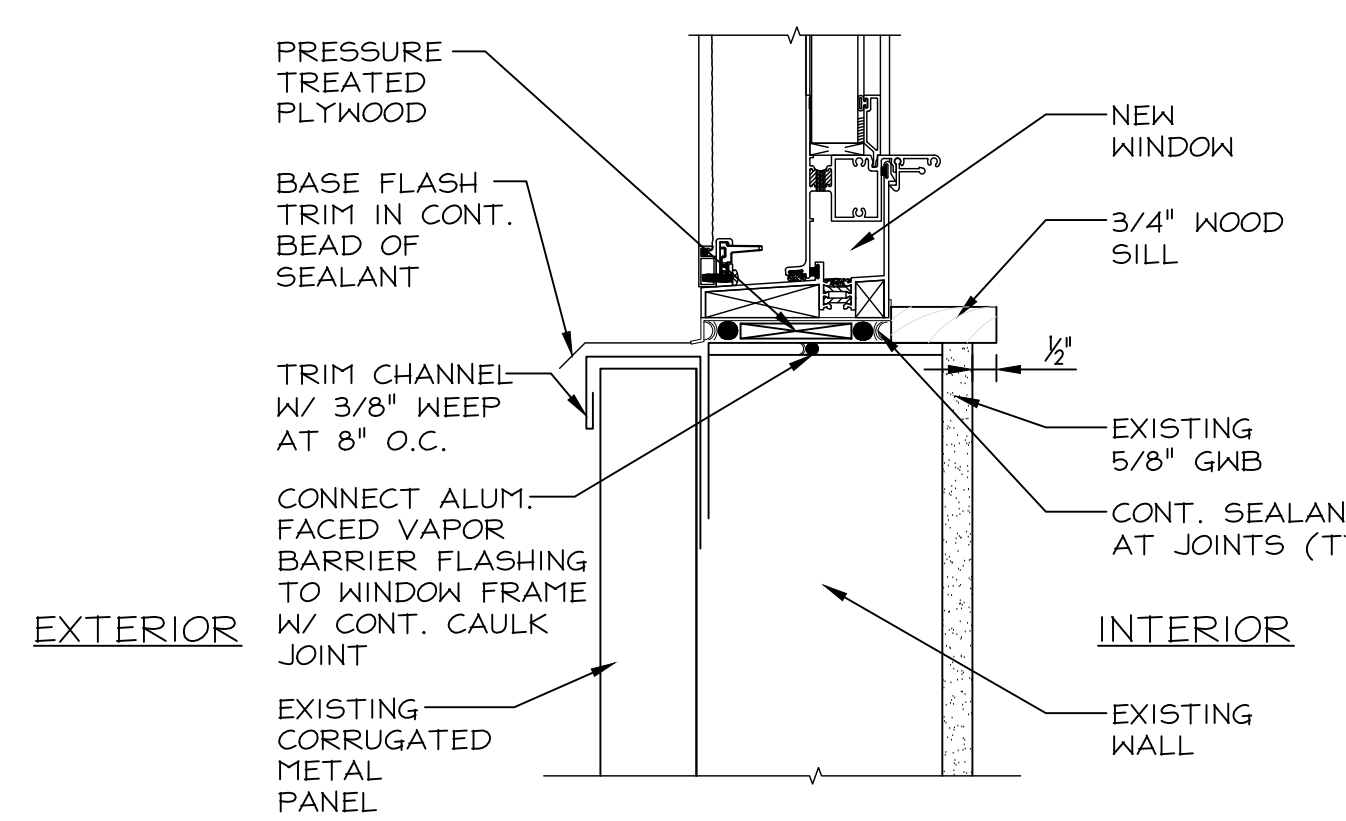
4 ELEVATION - HANGAR #5
A-3 3/16" = 1'-0"



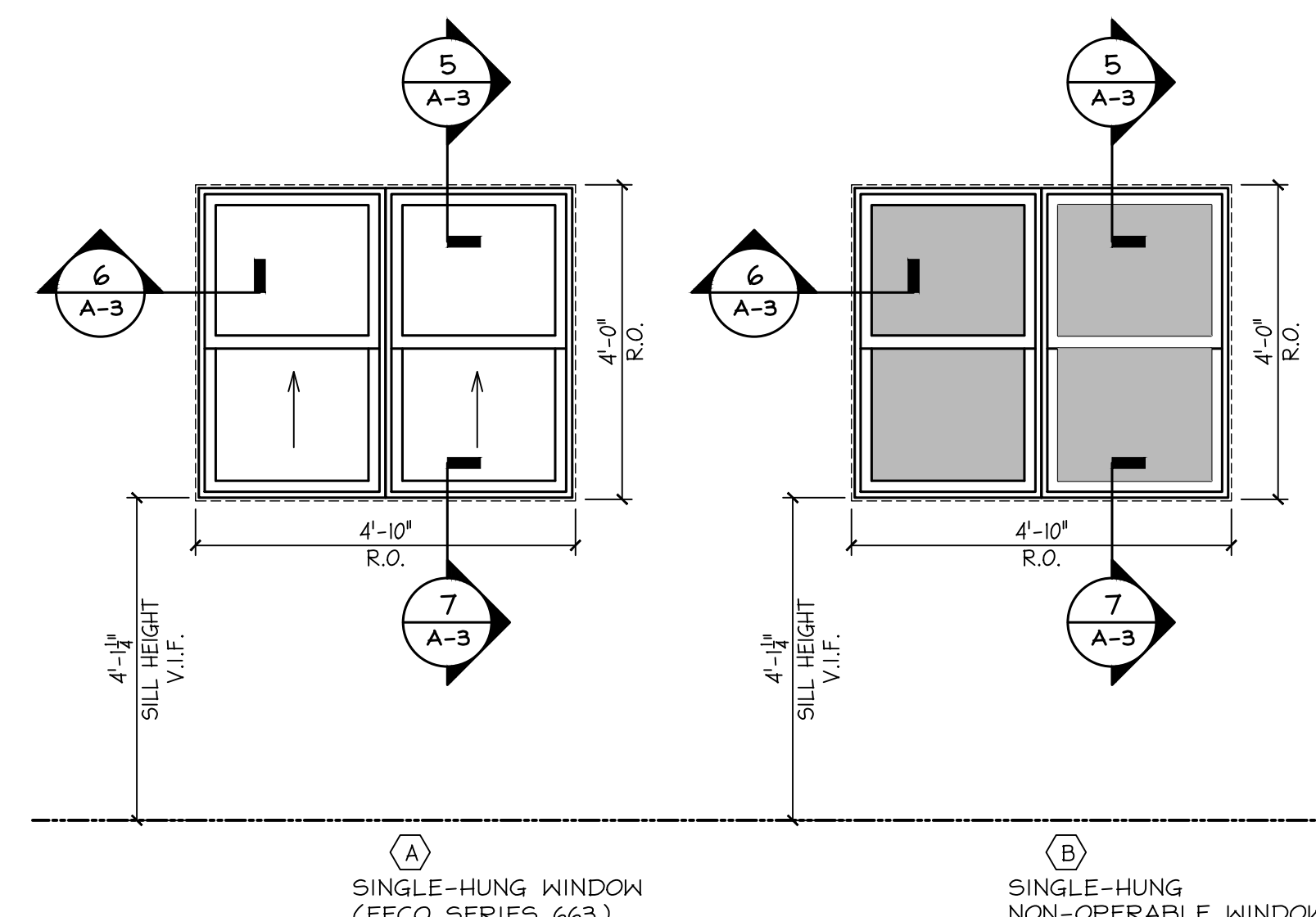
5 WINDOW HEAD
A-3 3" = 1'-0"



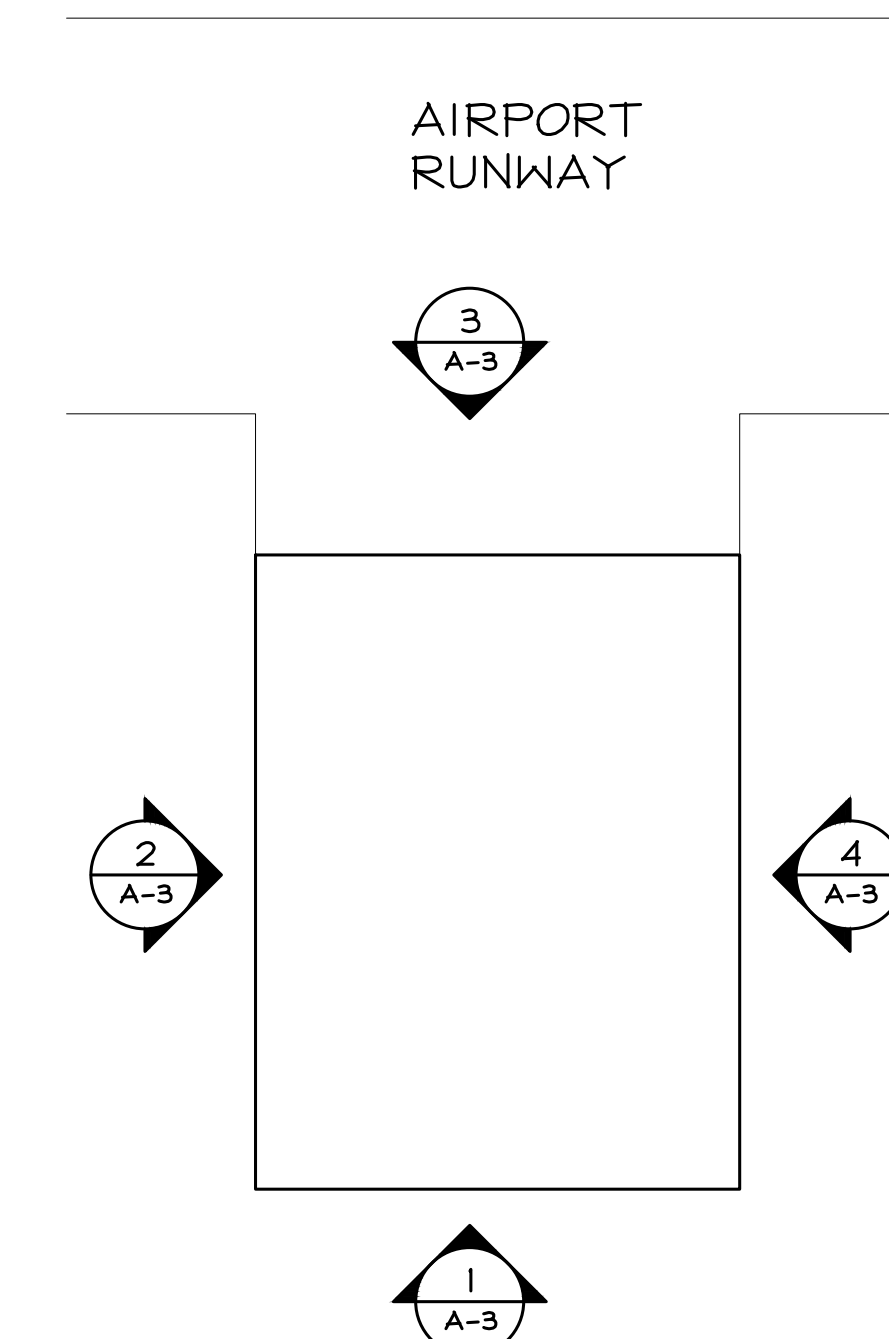
6 WINDOW JAMB
A-3 3" = 1'-0"



7 WINDOW SILL
A-3 3" = 1'-0"



8 WINDOW TYPE
A-3 1-1/2" = 1'-0"



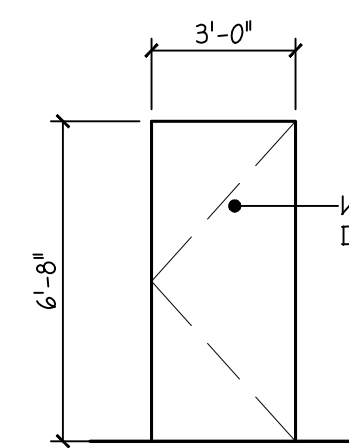
KEY PLAN - HANGAR #5
N.T.S.

No. 5/9/2025		ISSUED FOR BID	
DATE		REVISIONS	
APPROVAL:		PROJECT:	
		RENOVATION AT	
		WOODBINE MUNICIPAL AIRPORT	
		HANGAR #5	
		675 HENRY DECINGUE BLVD.	
		WOODBINE, NJ 08270	
		TITLE: EXTERIOR ELEVATIONS	
		HANGAR #5	
JOSEPH F. MCKERNAN JR., R.A.		SCALE: AS NOTED	
100 DODGE LANE, SUITE 204, CHERRY HILL, NEW JERSEY 08034		DRAWING NO.	
NJ ARCH. # 12841, PA. ARCH. # 0000224, CT. ARCH. 1254		PROJ. NO. 1336	
		DATE: 05/09/2025	
		REV'D:	
		DRAWN BY: DR	
		CHECKED BY: OG	

A-3



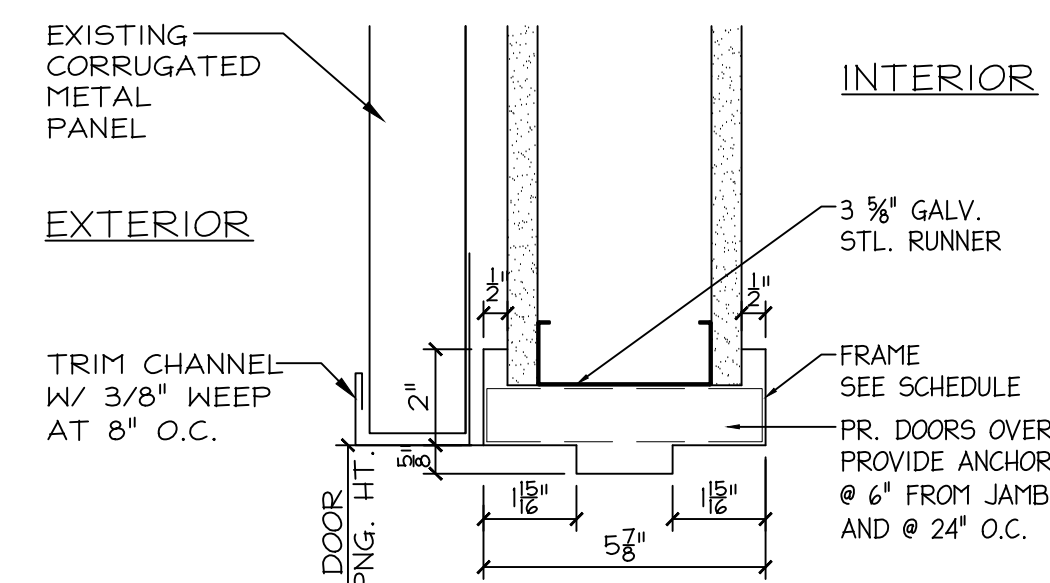
A diagram of a rectangular plate with a width of $2'$ and a height of $10'$. A central point is labeled S . The plate is oriented vertically, with the width dimension at the top and the height dimension on the left side.



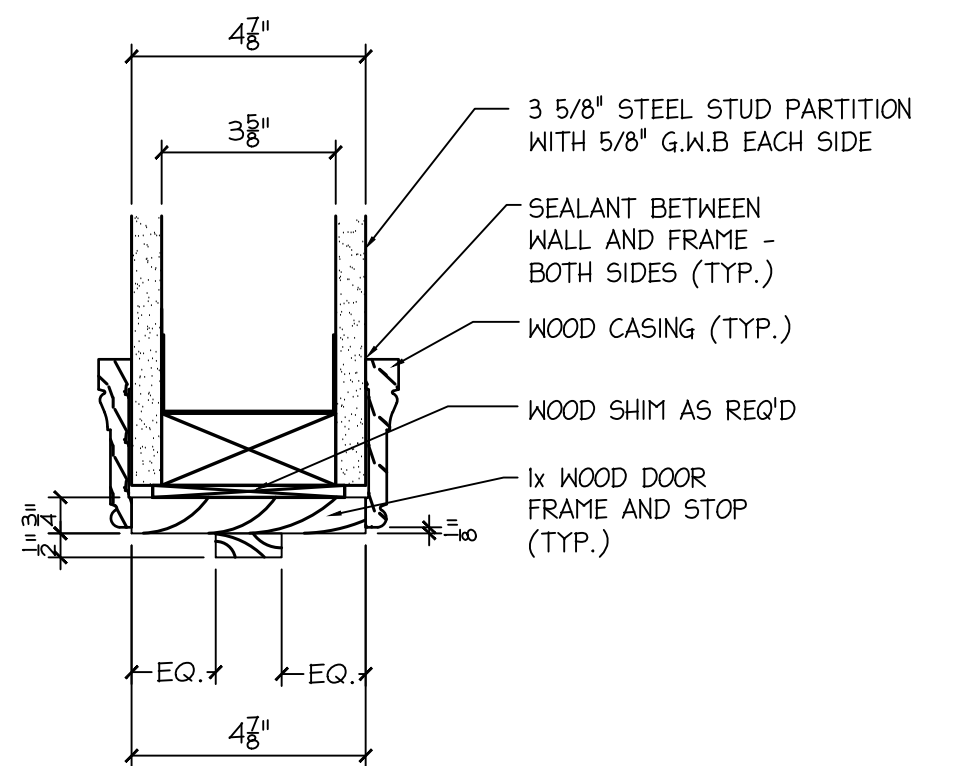
TYPE A

DOOR TYPES

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



HI DOOR HEAD DETAIL
3" = 1'-0"



H2 DOOR HEAD DETAIL
3" = 1'-0"



3 TOILET ROOM - BASE BID
A-4 $3/8" = 1'-0"$



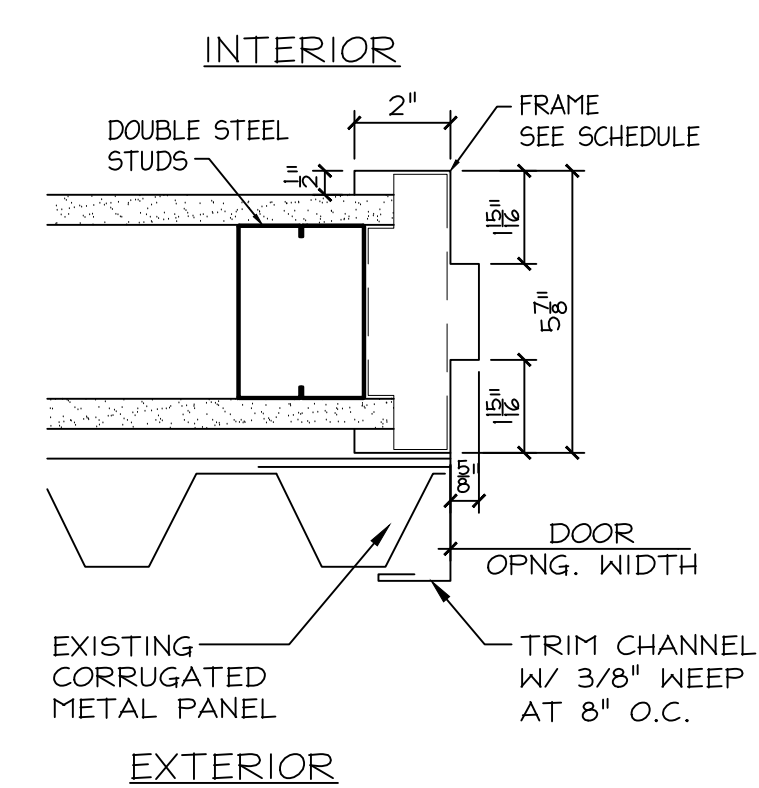
4 KITCHENETTE AREA - ALT. #3
A-4 $3/8" = 1'-0"$

[illegible]

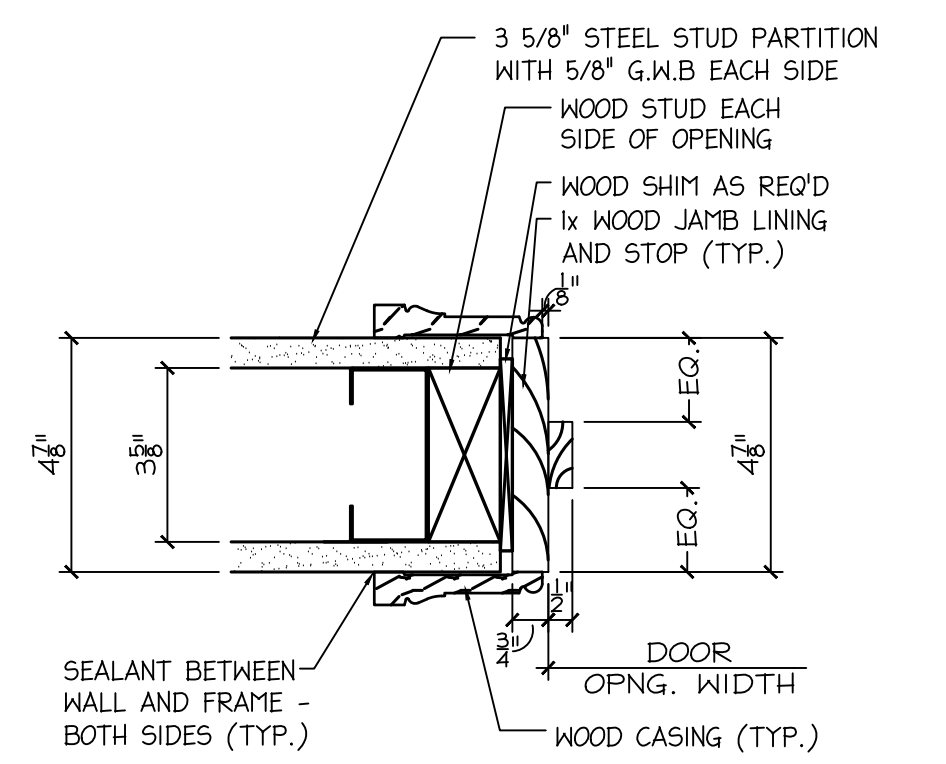
1. REFER TO TYP. FUTURE "C" ACCESSORY MOUNTING HEIGHTS, POSITIONS, ETC.
2. PROVIDE SOLID CONTINUOUS WOOD BLOCKING BEHIND ALL WALL HUNG EQUIPMENT TO SUPPORT 250 LB.
3. PROVIDE ALL APPROPRIATE ACCESSORIES ("DRAINS, TRAPS, SUPPLIES AND STOPS, MOUNTING HARDWARE, BLOCKING, ETC.") FOR A COMPLETE INSTALLATION.
4. **HANDRAIL, GRAB BAR STRUCTURAL NOTES:**
 - A. Bending stress in a grab bar induced by the maximum bending moment from the application of 250 lbf shall be less than the allowable stress for the material of the grab bar or seat.
 - B. Shear stress in a grab bar or seat by the application of 250 lbf shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained, then the shear and torsional stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.
 - C. Shear force induced in a fastener or mounting device from the application of 250 lbf shall be less than the allowable shear stress of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
 - D. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal and the supporting structure.
 - E. Grab bars shall not rotate within their fittings.

ITEM. NO.	ITEM	MFR./ MODEL#	COMMENTS
1	PREFABRICATED ADA TRANSFER SHOWER
2	TWO-PIECE ADA TOILET		
3	WALL-HUNG LAVATORY		
4	FAUCET (BATHROOM)		
5	MIRROR		
6	18" VERTICAL GRAB BAR		
7	36" HORIZONTAL GRAB BAR		
8	42" HORIZONTAL GRAB BAR		
9	TOILET PAPER DISPENSER		
10	WAINSCOT TILE		5'-0" HIGH

ROOM FINISH SCHEDULE							
ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT	REMARKS
100	BATH ROOM	CERAMIC TILE	RUBBER	PTD	GWB	8'-0"	5'-0" MAINSCOT TILE ALL WALLS
101	UTILITY ROOM	EXPOSED CONCRETE	RUBBER	PTD	GWB	8'-0"	
EXISTING	EXISTING OFFICES	EXISTING	EXISTING	PTD	EXISTING	EXISTING	PATCH & REPAIR DISTURBED AREAS TO MATCH EXISTING



JI DOOR JAMB DETAIL
3" = 1'-0"



J2 DOOR JAMB DETAIL
3" = 1'-0"

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 NEW JERSEY INTERNATIONAL BUILDING CODE AS WELL AS ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
2. ALL CODES AND STANDARDS REFERENCED IN THESE NOTES APPLY TO THE DESIGN, CONSTRUCTION, DEMOLITION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. UNLESS SPECIFICALLY STATED, USE THE LATEST ADOPTED EDITIONS OF THE CODES AND STANDARDS.
3. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND ALL OTHER APPLICABLE DISCIPLINE DRAWINGS. IN CASE OF CONFLICT BETWEEN THE NOTES, AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DESIGNERS OF RECORD PRIOR TO PERFORMING THE WORK.
4. ALL SECTIONS AND DETAILS, WHETHER EXPLICITLY CUT ON PLAN OR NOT, SHALL BE CONSIDERED TYPICAL AND APPLY AT SIMILAR CONDITIONS. MINOR DETAILS OR INCIDENTAL ITEMS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR A PROPER AND COMPLETE INSTALLATION SHALL BE INCLUDED IN THE WORK AT NO ADDITIONAL COST. SIGNIFICANT ADJUSTMENTS ACCOUNTING FOR VARYING CONDITIONS IN THE FIELD SHOULD BE SUBMITTED TO THE DESIGNERS OF RECORD FOR APPROVAL AND BE RESOLVED PRIOR TO BEGINNING WORK.
5. GENERAL CONTRACTOR'S RESPONSIBILITIES:
 - A. THE CONTRACTOR SHALL NOT MAKE VARIATIONS FROM THE DESIGN DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE DESIGNERS OF RECORD. CHANGES BY THE CONTRACTOR, DUE TO CONTRACTOR PROPOSED ALTERNATIVES OR TO CORRECT CONTRACTOR ERRORS OR OMISSIONS, SHALL BE REVIEWED BY THE DESIGNERS OF RECORD OR APPROVED BY THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS, INCLUDING ENGINEERING FEES FOR REVIEW, SITE OBSERVATIONS, STRUCTURAL CALCULATIONS AND DRAWING REVISIONS. THE CONTRACTOR SHALL ALSO PROCESS THE REVISED PLANS REFLECTING ALL SUBSTITUTIONS THROUGH THE APPROPRIATE OFFICE OF ALL GOVERNING AGENCIES.
 - B. THE STRUCTURE IS DESIGNED AS SELF SUPPORTING AFTER THE STRUCTURE IS FULLY COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE STRUCTURE AND ITS DETAILS AND SECTIONS. UNLESS SPECIFICALLY INDICATED ON THESE DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND PROVIDING DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, TEMPORARY BRACING, SHEETING, SHORING, UNDERPINNING, ETC. TO ENSURE THAT TO THE NEW STRUCTURE, AND TO PREVENT ANY LATERAL MOVEMENT OF EXISTING STRUCTURES, SIDEWALKS, AND UTILITIES. DESIGNS SHALL BE PROVIDED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. LOADS GREATER THAN THE INDICATED DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE.
 - C. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER FREE AND HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
 - D. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY AND ESTABLISH ALL EXISTING SITE CONDITIONS, DIMENSIONS, ELEVATIONS AND LOCATE ALL UTILITIES PRIOR TO STARTING ANY CONSTRUCTION. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE DESIGNERS OF RECORD IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH HIS/HER PROPOSED MODIFICATION OF THE DETAILS FOR APPROVAL PRIOR TO COMMENCING WORK. FAILURE TO NOTIFY THE DESIGNERS OF RECORD OF UNSATISFACTORY CONDITIONS CONSTITUTES ACCEPTANCE OF THE UNSATISFACTORY CONDITIONS.
 - E. THE CONTRACTOR SHALL VERIFY ALL EXISTING STRUCTURES RELATED TO THE PROJECT. STRUCTURAL MEMBERS IDENTIFIED ON THESE DRAWINGS AS EXISTING (EXIST) WERE OBTAINED DURING LIMITED FIELD OBSERVATIONS AND/OR FROM LIMITED EXISTING RECORDS. IF AVAILABLE, AND TO PROVIDE A SKETCH OF THE CONDITION FROM WHICH IS OBTAINED ON THE PLANS AND DETAILS. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE DESIGNERS OF RECORD IMMEDIATELY. ALL FIELD DIMENSIONS ARE TO BE VERIFIED AND NOTED AS SUCH ON SHOP DRAWINGS PRIOR TO FABRICATION OF ANY NEW STRUCTURAL MEMBERS.
 - F. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SAFEGUARDS DURING CONSTRUCTION, AS REQUIRED BY THE APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODE AS WELL AS ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE ADDITIONAL ENGINEERING SERVICES OUTSIDE THE SCOPE OF THESE CONSTRUCTION DOCUMENTS ARE REQUIRED AS PART OF SAFEGUARDS DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION COMMENCING.
6. THE STRUCTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL STRUCTURAL FEATURES, UNLESS NOTED OTHERWISE. THE ARCHITECTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN. WORKING DIMENSIONS SHALL NOT BE SCALED FROM STRUCTURAL PLANS, SECTIONS, OR DETAILS. ANY REFERENCE TO WATERPROOFING AND FIREPROOFING ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
7. THE STRUCTURAL DRAWINGS ARE ONLY INTENDED TO CONVEY THE REQUIREMENTS OF THE STRUCTURE DOCUMENTED IN THESE PLANS. THE STRUCTURAL DRAWINGS SHOULD NOT BE USED AS MEANS OF COORDINATING BETWEEN TRADES OR DISCIPLINES.
8. THE CONTRACTOR IS TO PROVIDE SUBMITTALS FOR ALL STRUCTURAL MATERIALS, TO THE DESIGNERS OF RECORD FOR REVIEW PRIOR TO THE START OF FABRICATION OR THE COMMENCEMENT OF WORK.
 - A. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RE-SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED AND SUBMITTAL OF SUCH DRAWINGS WILL BE REJECTED AND RETURNED.
 - B. SUBMITTALS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH CONSTITUTES CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
9. ALLOW FOR A MINIMUM OF TWO (2) WEEKS REVIEW PERIOD.

1. ALL DESIGN REQUIREMENTS, LOADING, PERFORMANCE CRITERIA, SUBMISSION STANDARDS AND ANY OTHER APPLICABLE INFORMATION IS LOCATED IN THE GENERAL NOTES, DESIGN DATA, PLANS, SECTIONS, DETAILS AND SPECIFICATIONS (CONSTRUCTION DOCUMENTS) FOR THE DELEGATED DESIGN OF THE COMPONENTS NOTED. BY BIDDING ON THIS PROJECT, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE DESIGN OF THE COMPONENTS DELEGATED BY THESE CONTRACT DOCUMENTS AND ACCEPTS THAT THERE IS ADEQUATE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS TO PERFORM THE DELEGATED DESIGN.
2. A BID SUBMISSION THAT DOES NOT INCLUDE THE REQUIRED DELEGATED DESIGN WILL RESULT IN THE REJECTION OF ANY AND ALL CONSTRUCTION PHASE SUBMISSIONS, RFIS AND SHOP DRAWINGS.
3. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS MAY SHOW DETAILS FOR DELEGATED DESIGN COMPONENTS, INCLUDING MINIMUM OR MAXIMUM ASSEMBLY REQUIREMENTS (I.E. DEPTH, GAGE LENGTH, SPAN OR SPACING), OR SUGGESTED ATTACHMENT METHODS. THESE DETAILS AND INFORMATION ARE INTENDED TO BE SCHEMATIC IN NATURE, AND ARE NOT INTENDED TO BE USED FOR BID QUANTITIES. THE CONTRACTOR SHALL MAKE ALLOWANCES IN THEIR BID TO ACCOMMODATE THE COST OF THE ACTUAL ASSEMBLIES AFTER DELEGATED DESIGN IS COMPLETE.
4. THE DESIGN OF DELEGATED COMPONENTS IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER, WHO MUST BE REGISTERED IN THE JURISDICTION OF THE SUBMITTALS. ALL SUBMITTALS SHALL BEAR THE ENGINEER'S SEAL AND SIGNATURE. THE ENGINEER MUST BE QUALIFIED TO DESIGN THE DESIGNATED ASSEMBLY AND MUST BE ABLE TO DEMONSTRATE PRIOR EXPERIENCE WITH THE DESIGN OF THE ASSEMBLY. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.
5. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL PERFORMANCE ASSEMBLIES IDENTIFIED BELOW.
6. DELEGATED DESIGNS SHALL ALSO BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AS DEFERRED SUBMITTALS AS PART OF THE PERMIT APPROVAL PROCESS, IF REQUIRED.

DELEGATED DESIGNS:

A.	DOOR SYSTEM & ITS COMPONENTS NOT EXPLICITLY DETAILED IN THESE DRAWINGS
B.	THE MEP CONTRACTOR SHALL PROVIDE CONNECTION OF SUSPENDED TO ROOF STRUCTURE, INCLUDING ANCHORAGE. ALL ATTACHMENTS SHALL BE PROVIDED BY THE MEP CONTRACTOR. ATTACHMENTS SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE EQUIPMENT IN ADDITION TO ALL APPLICABLE LATERAL FORCES.

1. A NEW SUBSURFACE INVESTIGATION REPORT, WITH FOUNDATION RECOMMENDATIONS, HAS NOT BEEN PROVIDED BY THE OWNER FOR THIS PROJECT. AS SUCH, FOUNDATIONS HAVE BEEN DESIGNED AND FOOTING ELEVATIONS ESTABLISHED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, SECTION 1806. THE SOIL, INFORMATION AND BEARING CAPACITY SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
2. FOOTINGS SHALL BEAR ON UNDISTURBED STRATUM OR ENGINEERED FILL WITH A MINIMUM BEARING CAPACITY OF 1,500 PSF USING TABLE 1806.2 AND AN ASSUMED SOIL TYPE OF SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC, GM AND GC).
3. FOUNDATIONS SHOWN HAVE BEEN DESIGNED FOR AXIAL FORCES AND MOMENTS INDICATED ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ANY RE-DESIGN OR RE-CONSTRUCTION OF FOUNDATIONS, DUE TO PRE-MANUFACTURED BUILDINGS CALCULATED REACTIONS WHICH EXCEED FORCES SHOWN ON THE DRAWINGS.
4. THE BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF THREE (3'-0") FEET BELOW FINISHED GRADE, AS REQUIRED BY LOCAL BUILDING CODES, OR AS NOTED ON PLANS AND DETAILS, WHICH EVER IS MORE STRICT.
5. THE BEARING ELEVATIONS OF NEW FOOTINGS ADJACENT TO EXISTING FOOTINGS ARE TO MATCH THE ADJACENT EXISTING FOOTING BEARING ELEVATIONS UNLESS INDICATED OTHERWISE ON PLANS.
6. PRIOR TO CONCRETE PLACEMENT FOR FOOTINGS, THE FOOTING SUBGRADE SHALL BE APPROVED BY THE INSPECTING GEOTECHNICAL ENGINEER. IF CONDITIONS PROVE TO BE UNACCEPTABLE AT ELEVATIONS SHOWN, FOOTING BOTTOMS SHALL BE LOWERED TO ACCEPTABLE SUBGRADE MATERIAL. FILL OVER-EXCAVATION WITH LEAN CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF $f'_c = 2,500$ PSI.
7. CONCRETE FOR FOOTINGS SHALL BE PLACED ON THE SAME DAY THE SUBGRADE IS APPROVED BY THE GEOTECHNICAL ENGINEER.
8. FOUNDATIONS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS IN THESE DRAWINGS.
9. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
10. THE CONTRACTOR SHALL OBSERVE/MONITOR WATER CONDITIONS AT THE SITE AND TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT THE FOUNDATION EXCAVATIONS REMAIN DRY DURING CONSTRUCTION. ANY SHEETING OR SHORING REQUIRED FOR DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR PUMPING FROM SUMPS AS REQUIRED.
11. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL.
12. CONTRACTOR TO PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE NEED TO USE FOUNDATION REBAR AS A GROUNDING ELECTRODE SYSTEM AND SHALL BE RESPONSIBLE FOR INSTALLING THE BONDING CLAMP PRIOR TO PLACEMENT OF THE CONCRETE AS PER NUCC BULLETIN NO. 02-2.

1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE ACI-318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE," THE CURRENT EDITION OF SP-66 "ACI DETAILING MANUAL," AND THE CRSI "MANUAL OF STANDARD PRACTICE."
2. CAST-IN-PLACE CONCRETE AND CONCRETE REINFORCING REQUIRES SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND ABOVE REFERENCED CODES. ALL CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY. REFER TO THE SPECIAL INSPECTION GENERAL NOTES ON THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
3. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH, $f'_c = [4,500]$ PSI. CONCRETE AIR ENTRAINMENT TO BE 6% +/- 1.5% FOR ALL EXPOSED CONCRETE WORK. PROVIDE A MAXIMUM WATER / CEMENT RATIO OF 0.45.
4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF +/-) WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE III. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2" FOR FOOTINGS AND 3/4" FOR WALLS AND SLABS, CONFORMING TO ASTM C33.
5. ALL CONCRETE EXPOSED TO WEATHER IN THE FINISHED PROJECT SHALL BE AIR ENTRAINMENT PER ACI 318 BASED ON AGGREGATE SIZE, OR PER EXPOSURE CLASS, WHICH EVER IS MORE STRINGENT.
6. LEVELING GROUT SHALL BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PRE-MIXED GROUT IN ACCORDANCE WITH CE-CRD-C621 OR ASTM C109, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
7. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW BY THE ENGINEER FOR APPROVAL:
 - A. CONCRETE MIX DESIGNS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS INDICATED IN THE GENERAL NOTES AS WELL AS SUBMITTALS FOR ANY ADMIXTURES.
 - B. THE USE OF HIGH-EARLY STRENGTH CONCRETE MAY BE REQUESTED BY THE CONTRACTOR. MIX DESIGN DATA USING FIELD CURED SPECIMENS SHALL BE SUBMITTED.
 - C. REINFORCING STEEL SHOP DRAWINGS INCLUDING A SCHEDULE OF NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION.
 - D. FORMWORK, SHORING, AND RESHORING.
8. ALL FORMWORK TO BE CONSTRUCTED IN ACCORDANCE WITH ACI-347 "GUIDE TO FORMWORK FOR CONCRETE" WITHIN TOLERANCE LIMITS DEFINED IN ACI-117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."

1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "STEEL CONSTRUCTION MANUAL", AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 303 "CODE OF STANDARD SPECIFICATION FOR STEEL DECKINGS", AND THE AMERICAN WELDERING SOCIETY (AWS) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
2. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE - STEEL".
 - A. STRUCTURAL SECTIONS, SHAPES AND FASTENERS SHALL CONFORM THE ASTM SPECIFICATIONS LISTED IN THE STRUCTURAL STEEL MATERIALS SCHEDULE, UNLESS NOTED OTHERWISE.
3. HIGH-STRENGTH BOLTED CONNECTIONS HAVE BEEN DESIGNED BY PENNOMI AND ARE DETAILED IN THESE CONSTRUCTION DOCUMENTS.
 - A. ALL BOLTED CONNECTIONS SHALL BE ASTM F3125 HIGH STRENGTH BOLTS AND BE A MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE.
 - B. ALL BOLTS ARE TO BE INSTALLED "SNUG TIGHT" MINIMUM, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, AS REQUIRED BY AISC OR RCSC, OR AS NOTED ON CONNECTION DETAILS.
 - C. THE STEEL FABRICATOR / ERECTOR MAY REQUEST ALTERNATE CONNECTION DETAILS IF SUCH DETAILS ARE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE STEEL FABRICATOR / ERECTOR IS RESPONSIBLE FOR PROVIDING THE DESIGN OF ALTERNATE DETAILS AND CALCULATIONS ARE TO BE PROVIDED, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE HAVING JURISDICTION OVER THE PROJECT, FOR REVIEW AND APPROVAL. THE STRUCTURAL ENGINEER OF RECORD SHALL BE THE SOLE JUDGE OF ACCEPTANCE OF ALTERNATIVES, AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE DETAILS SHOWN ON THESE DRAWINGS.
4. THE CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR THE FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL. SHOP DRAWINGS ARE TO INCLUDE:
 - A. COORDINATED DIMENSIONS OF MECHANICAL / ELECTRICAL EQUIPMENT REQUIRING SUPPORT, FLOOR AND ROOF PENETRATIONS, FIELDS OF METAL DECK, ETC.
 - B. CLEARLY SHOW ALL SHOTS, HOLES AND SHOP BOLTED CONNECTIONS. CLEARLY SHOW ALL FIELD WELDS AND FIELD BOLTED CONNECTIONS.
 - C. CLEARLY SHOW ALL OUTS, HOLES, COPING, ETC. REQUIRED FOR OTHER TRADES OR EXISTING FIELD CONDITIONS THAT ARE TO BE MADE IN THE SHOP. **CUTTING OR BURNING OF MAIN STRUCTURAL STEEL MEMBERS IS NOT PERMITTED IN THE FIELD.**
 - D. THE INITIAL SUBMITTAL SHALL INCLUDE ALL CONNECTION DETAILS AND JOB STANDARDS.
 - E. SHOP DRAWINGS SHALL DIRECTLY REFERENCE CONNECTION DETAILS ON THE SUBMITTAL OR THE CONNECTION ENGINEER SHALL PROVIDE A LETTER STATING THAT THEY HAVE REVIEWED THE SHOP DRAWINGS AND CONFIRM THAT THE FABRICATION CONNECTION DETAILS ARE IN CONFORMANCE WITH THEIR CONNECTION DESIGN REQUIREMENTS.
5. SUBMIT A WRITTEN ERECTION PLAN AND ASSOCIATED CALCULATIONS, TO THE ENGINEER FOR REVIEW. THIS PLAN IS TO INDICATE, AS A MINIMUM, SEQUENCE OF ERECTION CONNECTIONS, CALCULATED ANTICIPATED ERECTION STRESSES, FIELD JOINT LOCATIONS, FIELD SPLICE DETAILS, AND LOCATION OF TEMPORARY SHORING, SCAFFOLDING, BRACING, ETC. THE STRESSES CAUSED DURING ERECTION AND HANDLING SHALL NOT EXCEED ALLOWABLE MEMBER STRESSES. THE ERECTION PLAN AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A STRUCTURAL CONNECTION ENGINEER LICENSED IN THE STATE HAVING JURISDICTION OVER THE PROJECT.
6. THE GENERAL CONTRACTOR OR STEEL FABRICATOR / ERECTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS FROM THE SHOP DRAWINGS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE. FAILURE TO NOTIFY THE STRUCTURAL ENGINEER IS AT THE CONTRACTOR'S RISK.
7. STEEL MEMBERS SHOWN ON THESE FRAMING PLANS ARE TO BE EQUALLY SPACED, UNLESS NOTED OTHERWISE.
8. **FIELD WELDING TO THE EXISTING STEEL WILL NOT BE PERMITTED, UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS, AND THE CONTRACTOR SHALL ANTICIPATE USING FIELD DRILLED AND BOLTED CONNECTIONS TO THE EXISTING STEEL, WHEN SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS TO WELD TO EXISTING STEEL. THE EXISTING STEEL FRAMING SHALL BE THOROUGHLY CLEANED TO ENSURE PROPER WELDING PREPARATION. THE CONTRACTOR / STEEL ERECTOR IS REQUIRED TO PROVIDE TEMPORARY SHORING TO THE EXISTING STEEL MEMBER ON BOTH SIDES OF THE WELD LOCATION. SHORING IS TO BE IN PLACE PRIOR TO, FOR THE DURATION OF, AND REMAIN IN PLACE AFTER WELDING HAS BEEN COMPLETED, UNTIL THE WELDS HAVE BEEN INSPECTED BY A CERTIFIED WELDING INSPECTOR (CWI) AND THE INSPECTIONS REPORTS ARE SUBMITTED TO, REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.**
9. THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME WHICH IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF / FLOOR DECKS AND THEIR COMPLETE ATTACHMENT TO THE LATERAL FORCE RESISTING SYSTEM FOR STABILITY AND RESISTANCE TO WIND AND SEISMIC FORCES. THE CONTRACTOR / STEEL ERECTOR IS REQUIRED TO PROVIDE TEMPORARY CABLES / GUYS AND OTHER BRACING / SHORING REQUIRED TO PROVIDE SUFFICIENT LATERAL STABILITY TO THE STEEL FRAME DURING CONSTRUCTION. TEMPORARY BRACING / SHORING AND PROPPING SHALL BE PROVIDED TO THE STEEL FRAME WITH SPRING ROLLERS / PAINT GALVANIZING REPAIR PAINT, AS REQUIRED. SURFACES THAT ARE COATED PRIOR TO INSPECTION WILL **NOT BE INSPECTED** AND ARE REQUIRED TO BE FULLY CLEANED WITH A WIRE WHEEL OR BRUSH PRIOR TO INSPECTION.
10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123.
11. ALL STEEL ANGLES AND PLATES, ALONG WITH BOLTS AND WASHERS, SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123.
12. FIELD WELDED SURFACES WITHIN FOUR (4) INCHES OF WELD SHALL BE CLEANED AND GROUND SMOOTH. AFTER FIELD WELDS HAVE BEEN INSPECTED AND APPROVED, COAT WITH TWO (2) COATS OF EPOXY / PAINT GALVANIZING REPAIR PAINT, AS REQUIRED. WELDS THAT ARE COATED PRIOR TO INSPECTION WILL **NOT BE INSPECTED** AND ARE REQUIRED TO BE FULLY CLEANED WITH A WIRE WHEEL OR BRUSH PRIOR TO INSPECTION.
13. ALL DISSIMILAR METALS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND/OR CORROSIVE EFFECTS.

AD	ADDITIONAL
APPROX	APPROXIMATE
ALT	AVERAGE
ALV	ALTERNATE
ARCH	ARCHITECTURE
BP	BASE PLATE / BEARING PLATE
BM	BEAM
BF	BOTTOM FRAME
BS	BOTH SIDES
BLDG	BUILDING
BTM	BOTTOM
B/	BOTTOM OF
CANT	CANTILEVER
CL	CENTER / TO CENTER
CLR	CENTER LINE
COL	COLUMN
CONC	CONCRETE
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONJ	CONSTRUCTION JOINT / JOINT
CONT	CONTINUOUS
DBA	DEFORMED BARE ANCHOR
DEMO	DEMOLITION
DET	DETAIL
dia / Ø	DIAMETER
DM	DIMENSION
DWG	DRAWING(S)
E	EACH FACE
EW	EACH WAY
LEV	ELEVATION
EMBED	EMBEDDED / EMBED
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
FS	FRS SIDE
FT	FEET
FLR	FLOOR
FD	FLOOR DRAIN
FGS	FOOTING(S)
FND	FOUNDATION
GALV	GALVANIZED
G	GAGE
GC	GENERAL CONTRACTOR
GR	GRADE
GA	HAND RAIL
HGR	HANGER
HP	HIGH POINT
HORIZ	HORIZONTAL
IF	INSIDE FACE
IN	INCHES
INFO	INFORMATION
ISO	ISOLATION JOINT
JT	JOINT
K	KIPS (= 1000 LBS)
K	KNEE BRACE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSV	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LP	LOW POINT
LB / #	POUNDS / #
LW	LIGHT WEIGHT
MFR	MANUFACTURER
MAX	MAXIMUM
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MIN	MINIMUM
MISC	MISCELLANEOUS
MC	MOMENT CONNECTION
NC	NEAR SIDE
NW	NORMAL WEIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
ON	ON CENTER
OF	OUTSIDE FACE
OPP	OPPOSITE
ORNG	OPENING
PERP	PERPENDICULAR
PL	PLATE
PROJ	PROJECTION
QTY	QUANTITY
R	RADIUS
REF	REFERENCE
REINF	REINFORCE(D)
REQD	REQUIRED
REV	REVISION
SCH	SCHEDULE
SECT	SECTION
SE	STRUCTURAL ENGINEER OF RECORD
SF	SET FOOTING
SIM	SIMILAR
SOG	SLAB ON GRADE
SSOG	STRUCTURED SLAB ON GRADE
SOMD	SLAB ON METAL DECK
ST	STEEL
STD	STANDARD
STL	STEEL
STIF	STIFFENER
STRUCT	STRUCTURAL
TEMP	TEMPORARY
THK	THICK
T&G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
TOP	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VER	VERTICAL
VIF	VERIFY IN FIELD
W	WITH
WO	WITHOUT
WWR / WWF	WELDED WIRE REINFORCING
WF	WELDED WIRE FABRIC
WFL	WELD FLANGE
WP	WORK POINT

DISCREPANCIES BEFORE PROCEEDING WITH WORK

Pennoni

PROJECT	MCKAX25002
DATE	05.09.2025
DRAWING SCALE	AS NOTED
DRAWN BY	JC
APPROVED BY	RHP

SHEET 1 OF 6

- STATEMENT OF SPECIAL INSPECTIONS**
1. THIS PROJECT REQUIRES SPECIAL INSPECTIONS IN ACCORDANCE WITH THE BUILDING CODE, SECTION 17 AND ANY STATE / LOCAL PROVISIONS DEEMED NECESSARY BY THE BUILDING OFFICIAL:
 2. INSPECTION IS REQUIRED OF ALL CONSTRUCTION DELINEATED ON THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS.
 3. INSPECTION AND TESTING SHALL BE PERFORMED AT THE OWNER'S EXPENSE. THE OWNER SHALL RETAIN A QUALIFIED INSPECTOR / INSPECTION AGENCY, SUBJECT TO APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION, TO PERFORM ALL THE NECESSARY INSPECTIONS.
 4. THE ENGINEER OF RECORD (EOR) IS NOT RESPONSIBLE TO PERFORM OR OBTAIN THE INSPECTION AND TESTING SERVICES AS PART OF THE DESIGN SERVICE. STRUCTURAL SITE VISITS AND SITE OBSERVATION REPORTS (SORs) ISSUED BY THE EOR ARE TO ASCERTAIN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ARE NOT TO BE CONSTRUED AS MEETING SPECIAL INSPECTION REQUIREMENTS.
 5. THE ARCHITECT, WITH INPUT FROM THE ENGINEER OF RECORD, IS RESPONSIBLE FOR PREPARING AND SUBMITTING THE "STATEMENT OF SPECIAL INSPECTIONS" IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, SECTION 1705, AND ANY LOCAL PROVISIONS DEEMED NECESSARY BY THE BUILDING OFFICIAL.
 6. THE ENGINEER OF RECORD WILL NOT AUTHORIZE ANY FINAL COMPLIANCE FORMS REQUIRED BY THE LOCAL BUILDING OFFICIAL FOR OBTAINING A CERTIFICATE OF OCCUPANCY IF THE REQUIREMENTS FOR INSPECTIONS HAVE NOT BEEN SUBMITTED FOR REVIEW AND APPROVAL.
 7. THE EOR IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND IS NOT REQUIRED TO INSPECT THE WORK FOR COMPLIANCE WITH OSHA REGULATIONS.
 8. THE SPECIAL INSPECTION AGENCY SHALL REVIEW THE REQUIRED INSPECTIONS, TESTING AND TEST PROCEDURES WITH THE OWNER, GENERAL CONTRACTOR, ARCHITECT AND EOR PRIOR TO THE GENERAL CONTRACTOR PERFORMING ANY RELATED CONSTRUCTION ACTIVITIES.
 9. THE GENERAL CONTRACTOR WILL PROVIDE THE SPECIAL INSPECTION AGENCY WITH ADEQUATE NOTICE WHEN REQUESTING INSPECTIONS AND TESTING, AND PROVIDE AN ANTICIPATED SCHEDULE OF CONSTRUCTION ACTIVITIES REQUIRING SPECIAL INSPECTIONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING SAFE ACCESS TO THE WORK FOR REQUIRED SPECIAL INSPECTIONS.
 10. THE SPECIAL INSPECTION AGENCY SHALL KEEP COMPREHENSIVE RECORDS OF ALL INSPECTIONS AND TESTING AND FURNISH DAILY FIELD REPORTS TO THE CONTRACTOR, ARCHITECT AND EOR FOR RECORD. AT THE COMPLETION OF CONSTRUCTION, THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT OF SPECIAL INSPECTIONS, DOCUMENTING ALL REQUIRED SPECIAL INSPECTIONS AND TESTING THAT HAS BEEN COMPLETED, AS WELL AS DESCRIBE ANY CORRECTIONS OF DISCREPANCIES THAT MAY HAVE OCCURRED DURING CONSTRUCTION, TO THE BUILDING OFFICIAL, OWNER, CONTRACTOR, ARCHITECT AND EOR.
 11. THE SPECIAL INSPECTION SCHEDULE BELOW INDICATES THE MINIMUM REQUIRED STRUCTURAL CONSTRUCTION ACTIVITIES AND MATERIALS THAT REQUIRE SPECIAL INSPECTIONS AND TESTING. THIS SCHEDULE IS NOT COMPREHENSIVE OF ALL INSPECTIONS AND TESTING REQUIRED FOR THE PROJECT, OR BY THE REFERENCED BUILDING CODE OR BUILDING OFFICIAL. REFER TO EACH DISCIPLINE / CONSTRUCTION TRADE'S CONSTRUCTION DRAWINGS FOR ADDITIONAL INSPECTIONS REQUIRED ON THE PROJECT.

MATERIAL SPECIFIC SPECIAL INSPECTION REQUIREMENTS

CAST-IN-PLACE CONCRETE

1. THE INSPECTION AGENCY SHALL PREPARE CONCRETE TEST CYLINDERS FROM EACH DAY'S POUR. CYLINDERS SHALL BE PROPERLY CURED AND STORED. SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172.
2. RETAIN A LABORATORY TO PROVIDE TESTING SERVICES. TEST CONCRETE FOR SLUMP PER ASTM C143, AIR CONTENT PER ASTM C231 OR C173, CYLINDER SAMPLES AND TESTS PER ASTM C31 AND C39. CAST ONE (1) SET OF SIX (6) 4"x8" CYLINDERS FOR EACH 50 CUBIC YARDS PLACED AND FOR EACH MIX USED PER DAY. REPORTS OF ALL TESTS TO BE SUBMITTED TO THE ENGINEER.
3. PRIOR TO PLACEMENT OF CONCRETE, A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF TWENTY-FOUR (24) HOURS IN ADVANCE OF PLACEMENT TO ALLOW FOR INSPECTION OF REINFORCING STEEL. PLACEMENT OF CONCRETE SHALL NOT START UNTIL PLACEMENT OF REINFORCING STEEL HAS BEEN APPROVED BY THE INSPECTION AGENCY.

STRUCTURAL STEEL

1. THE STEEL STRUCTURE AND ITS CONNECTIONS ARE REQUIRED TO HAVE SPECIAL INSPECTIONS.
2. THE SPECIAL INSPECTOR IS TO PERFORM ALL REQUIRED PRE-INSTALLATION AND POST-INSTALLATION INSPECTIONS AND TESTING OF HIGH-STRENGTH BOLTED FASTENER ASSEMBLIES.
3. THE CERTIFIED WELDING INSPECTOR (CWI) IS TO PERFORM ALL WELDING VISUAL INSPECTIONS AND NON-DESTRUCTIVE TESTING (NDT). THE STEEL ERECTOR IS TO PROVIDE ALL REQUIRED WELDER QUALIFICATIONS, WELDING PROCEDURE SPECIFICATIONS (WPS), ETC TO THE CWI AS REQUESTED.
4. THE FOLLOWING NON-DESTRUCTIVE TESTING (NDT) IS REQUIRED AT MINIMUM FOR ALL FIELD WELDED CONNECTIONS:
 - A. VISUALLY INSPECT 100% OF FIELD FILLET WELDS AND FINISHED MULTI-PASS WELDS. WELDS FAILING VISUAL INSPECTIONS ARE TO BE REPAIRED PRIOR TO PERFORMING ANY NDT.

STATEMENT OF SPECIAL INSPECTIONS SCHEDULE	
TYPE & EXTENT OF INSPECTIONS / TESTS	FREQUENCY OF INSPECTION
STRUCTURAL STEEL (IBC 1705.2)	
STRUCTURAL STEEL PER AISC 360 QUALITY ASSURANCE INSPECTION REQUIREMENTS	
STEEL DECK PER SDI QUALITY ASSURANCE INSPECTION REQUIREMENTS	
OPEN-WEB STEEL JOISTS & GIRDERS PER SJI & IBC TABLE 1705.2.3	
WELDING PER AWS D1.1 QUALITY ASSURANCE INSPECTION REQUIREMENTS	
BOLTING PER AISC 360 & RCSC QUALITY ASSURANCE INSPECTION REQUIREMENTS	
CONCRETE CONSTRUCTION (IBC 1705.3)	
INSPECTION OF REINFORCING STEEL	PERIODIC
REINFORCING STEEL WELDING	SEE TABLE 1705.3
CAST-IN-ANCHORS	PERIODIC
POST-INSTALLED ADHESIVE ANCHORS HORIZONTAL & UPWARD INCLINED TO RESIST SUSTAINED TENSION LOADS	CONTINUOUS
POST-INSTALLED ANCHORS - MECHANICAL AND OTHER ADHESIVE	PERIODIC
VERIFY CONCRETE MIX DESIGN	PERIODIC
SAMPLING, CYLINDERS, SLUMP, AIR CONTENT, TEMPERATURE	CONTINUOUS
CURING TEMPERATURE & TECHNIQUES	PERIODIC
FORMWORK SHAPE, LOCATION, DIMENSIONS	PERIODIC
SOILS (IBC 1705.6)	
SHALLOW FOUNDATION MATERIALS AND BEARING CAPACITY	PERIODIC
EXCAVATIONS - VERIFY PROPER DEPTH & MATERIAL ARE REACHED	PERIODIC
CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC
VERIFY COMPACTED FILL MATERIALS, DENSITIES & LIFT THICKNESSES	CONTINUOUS
PRIOR TO FILL, INSPECT SUBGRADE AND SITE PREPARATION	PERIODIC
FABRICATORS (IBC 1705.10)	
INSPECTION OF FABRICATED ITEMS TO BE IN ACCORDANCE WITH IBC 1704.2.5	

NOTES:

1. FREQUENCY OF INSPECTIONS ARE DEFINED AS:
 - A. PERIODIC INSPECTION: PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
 - B. CONTINUOUS INSPECTION: FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AFTER COMPLETION OF THE WORK.
2. SHOP INSPECTIONS OF ANY APPROVED FABRICATORS MAY BE WAIVED BY THE BUILDING OFFICIAL OR EOR. IF SHOP INSPECTIONS ARE WAIVED A FABRICATOR'S CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED TO THE EOR FOR REVIEW AND RECORD.

MATERIAL SPECIFICATION - CAST-IN-PLACE CONCRETE MIX DESIGNS						
STRUCTURAL USE	EXPOSURE CLASS				AIR CONTENT	MINIMUM 28-DAY COMPRESSIVE STRENGTH, f _c
	F	S	W	C		
FOUNDATION	F2	S0	W0	C1	4.5% - 7.5%	4,500 PSI

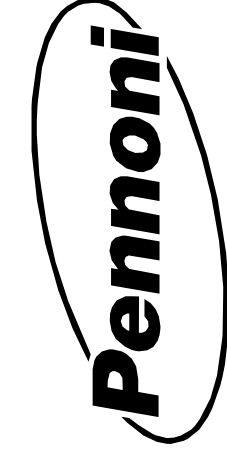
MATERIAL SPECIFICATION - STRUCTURAL STEEL, BOLTS & WELDS	
SECTION TYPE	ASTM SPECIFICATION
WIDE FLANGE, WF SHAPES	ASTM A992, GRADE 50
PLATES, ANGLES, CHANNELS, ETC	ASTM A36
HSS STEEL TUBING (RECTANGULAR, SQUARE & ROUND)	ASTM A500, GRADE C
GALVANIZED STRUCTURAL STEEL: <ul style="list-style-type: none">• STRUCTURAL SHAPES & RODS• BOLTS, FASTENERS & HARDWARE	ASTM A123 ASTM A153
ANCHOR RODS	HILTI POST-INSTALLED ANCHORS AS NOTED ON DRAWINGS
HIGH STRENGTH BOLTS, NUTS & WASHER ASSEMBLIES	ALL BOLTS SHALL BE A MINIMUM 3/4" Ø, UNO ASTM F3125 BOLTS / ASSEMBLIES - (INCLUSIVE OF PREVIOUS ASTM's - A325, A490, F1852 AND F2280) ASTM A563 NUTS ASTM F436 WASHERS OR ASTM F959 DIRECT TENSION INDICATING (DTI) WASHERS
WELDING ELECTRODES	UTILIZE 70 KSI MINIMUM STRENGTH, LOW HYDROGEN SERIES ELECTRODE / WIRE, UNO PERMITTED WELDING PROCESS: <ul style="list-style-type: none">• SHIELDED METAL ARC WELDING (SMAW) - E70XX ELECTRODES• GAS METAL ARC WELDING (GMAW) - ER70S-X FLUX-CORED WIRE

MATERIAL SPECIFICATION - REINFORCING STEEL	
REINFORCING TYPE	ASTM SPECIFICATION
MILD-REINFORCING STEEL (REBAR)	ASTM A615, GRADE 60
EPOXY-COATED REINFORCING STEEL (REBAR)	ASTM A775, GRADE 60
WELDED WIRE REINFORCEMENT, WWR	ASTM A1064

MATERIAL SPECIFICATION - POST-INSTALLED ANCHORS			
SUBSTRATE	ANCHOR TYPE	APPROVED HILTI ANCHORS (BASIS OF DESIGN)	ALTERNATIVE ANCHORS (WITH APPROVAL, SEE NOTE #1)
CRACKED & UNCRACKED CONCRETE	SCREW ANCHOR	KWIK HUS EZ	DEWALT SCREW-BOLT+ SIMPSON TITEN HD
		KWIK BOLT-TZ	DEWALT POWER-STUD+ SD2 SIMPSON STRONG BOLT 2
	EXPANSION ANCHOR	KWIK BOLT 3 (SEE NOTE #2)	DEWALT POWER-STUD+ SD1 SIMPSON STRONG BOLT 2
		HDA UNDERCUT ANCHOR	DEWALT CCU+ SIMPSON TCA
		HSL-3	DEWALT POWER-BOLT+
	ADHESIVE ANCHOR	HIT-HY 200 SAFE SET SYSTEM HAS-E ROD, HIT-Z ROD, REBAR	DEWALT AC208+ SIMPSON AT-3G
		HIT-HY 500 V3 SAFE SET SYSTEM HAS-E ROD, HIT-Z ROD, REBAR	DEWALT PURE110+ SIMPSON SET-3G

NOTES:

1. TO UTILIZE ALTERNATIVE ANCHORS, THE CONTRACTOR MUST SUBMIT A FORMAL SUBSTITUTION REQUEST AND / OR SIGNED AND SEALED CALCULATIONS TO THE ENGINEER OF RECORD TO REVIEW AND APPROVE PRIOR TO USE.
2. ANCHOR IS APPLICABLE FOR USE IN UNCRACKED CONCRETE ONLY.
3. ANCHOR IS APPLICABLE FOR USE IN SOLID GROUT-FILLED CONCRETE MASONRY ONLY.
4. ANCHORS IN HOLLOW MASONRY UNITS AND MULTI-WYTHE MASONRY CONSTRUCTION ARE TO UTILIZE APPROPRIATELY SIZED MESH SCREEN TUBES, CONSULT WITH ANCHOR MANUFACTURER FOR APPROVED SCREEN TUBES.
5. ALL ANCHORS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, MPII.



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WOODBINE AIRPORT - HANGER #5 DOOR

REPLACEMENT

669 HENRY DECAUNE BLVD.

WOODBINE, NJ

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DRAWING SCALE	AS NOTED
DRAWN BY	JC
APPROVED BY	RHP

S002

SHEET 2 OF 6

DESIGN CRITERIA - LATERAL LOADS		
WIND DESIGN		
DESCRIPTION	SYMBOL	VALUE
BASIC DESIGN WIND SPEED	V _{ULT}	120 mph
ALLOWABLE STRESS DESIGN WIND SPPED	V _{ASD}	93 mph
RISK CATEGORY		II
WIND EXPOSURE CATEGORY		C
INTERNAL PRESSURE COEFFICIENT	GC _{pi}	±0.55
COMPONENTS AND CLADDING	SEE SCHEDULE	
EARTHQUAKE (SEISMIC) DESIGN		
DESCRIPTION	SYMBOL	VALUE
RISK CATEGORY		II
IMPORTANCE FACTOR	I _e	1
SITE CLASSIFICATION	D (DEFAULT)	
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S _s & S ₁	S _s	0.119g
	S ₁	0.04g
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS, S _{DS} & S _{D1}	S _{DS}	0.127g
	S _{D1}	0.063g
SEISMIC DESIGN CATEGORY	S _{DC}	A
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE	

DESIGN CRITERIA - SNOW LOADS		
DESCRIPTION	SYMBOL	VALUE
GROUND SNOW LOAD	P_g	20 psf
FLAT ROOF SNOW LOAD	P_f	20 psf
SNOW EXPOSURE FACTOR	C_e	1.0
SNOW LOAD IMPORTANCE FACTOR	I_s	1.0
THERMAL FACTOR	C_t	1.1
SLOPE FACTOR	C_s	1.0
SNOW DRIFT	SNOW DRIFTS NOT APPLICABLE	

MECHANICAL EQUIPMENT WEIGHT SCHEDULE	
MECH EQPT	WEIGHT (LBS)
GHU-1 & GHU-2	220
GHU-3	151
FAN-1	217

NOTES:
1. REFER TO THE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESIGN CRITERIA - ROOF LOADS	
DEAD LOADS (SEE NOTE #1)	
DESCRIPTION	VALUE (PSF)
ROOFING & INSULATION	3
ROOF FRAMING	12
COLLATERAL / MISCELLANEOUS	2
TOTAL DEAD LOAD	17
LIVE LOAD	
ROOF LIVE LOAD	20

NOTES:
1. SELF WEIGHT OF PRIMARY STRUCTURAL COMPONENTS (BEAMS, SLABS, COLUMNS) ARE INCLUDED SEPARATELY, UNLESS NOTED OTHERWISE ABOVE.

DESIGN CRITERIA - WIND DESIGN COMPONENTS AND CLADDING				
ROOF & WALL PRESSURES			ZONE 4 & 5 - POSITIVE WALL PRESSURES (PSF)	
ZONE	EFFECTIVE WIND AREA (FT ²)	P (PSF) NEGATIVE	P (PSF) POSITIVE	HEIGHT ABOVE GRADE, Z (FT)
1	10	-78.9	17.0	15
	20	-78.9	16.0	37.8
	50	-60.8	16.0	36.2
	100	-24.6	16.0	33.9
	200	-24.6	16.0	35.7
2e	500	-24.6	16.0	40.8
	10	-78.9	17.0	42.7
	20	-78.9	16.0	38.3
	50	-60.8	16.0	36.3
	100	-24.6	16.0	34.4
2r	200	-48.2	16.0	
	500	-42.7	16.0	
2n	10	-115.2	17.0	
	20	-98.9	16.0	
	50	-78.9	16.0	
	100	-64.1	16.0	
	200	-48.2	16.0	
3e	500	-42.7	16.0	
	10	-115.2	17.0	
	20	-98.9	16.0	
	50	-78.9	16.0	
	100	-64.1	16.0	
3r	200	-48.2	16.0	
	500	-42.7	16.0	
4	10	-136.9	17.0	
	20	-115.2	16.0	
	50	-89.8	16.0	
	100	-71.7	16.0	
	200	-71.7	16.0	
5	500	-71.7	16.0	
	10	-46.4		
	20	-44.4		
	50	-41.9		
	100	-39.9		
5	200	-38.0		
	500	-35.5		
5	10	-57.2		
	20	-53.4		
	50	-48.3		
	100	-44.4		
	200	-40.6		
5	500	-35.5		

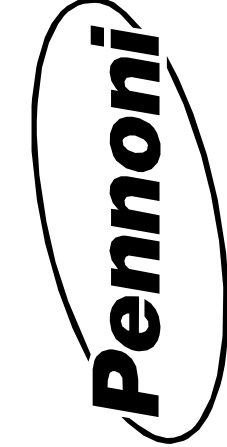
BUILDING DIAGRAMS

WALL ZONES

GABLE ROOF ZONES
7° < θ \leq 45°

NOTES

- THESE COMPONENT & CLADDING WIND PRESSURES ARE ULTIMATE WIND PRESSURES
- EDGE DISTANCE, "a" IS THE SMALLER OF:
 - 10% OF LEAST HORIZONTAL DIMENSION
 - 0.4 x h
 - "a" IS NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3-FT
- h = MEAN ROOF HEIGHT IN FEET, EXCEPT WHEN $\theta \leq 10^\circ$. EAVE HEIGHT SHALL BE USED
- θ = ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES
- IF AN OVERHANG EXISTS, THE EDGE DISTANCE SHALL BE MEASURED FROM THE OUTSIDE EDGE OF THE OVERHANG. THE HORIZONTAL DISTANCE USED TO COMPUTE EDGE DISTANCE SHALL NOT INCLUDE THE ANY OVERHANG DISTANCES.



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DESIGN CRITERIA

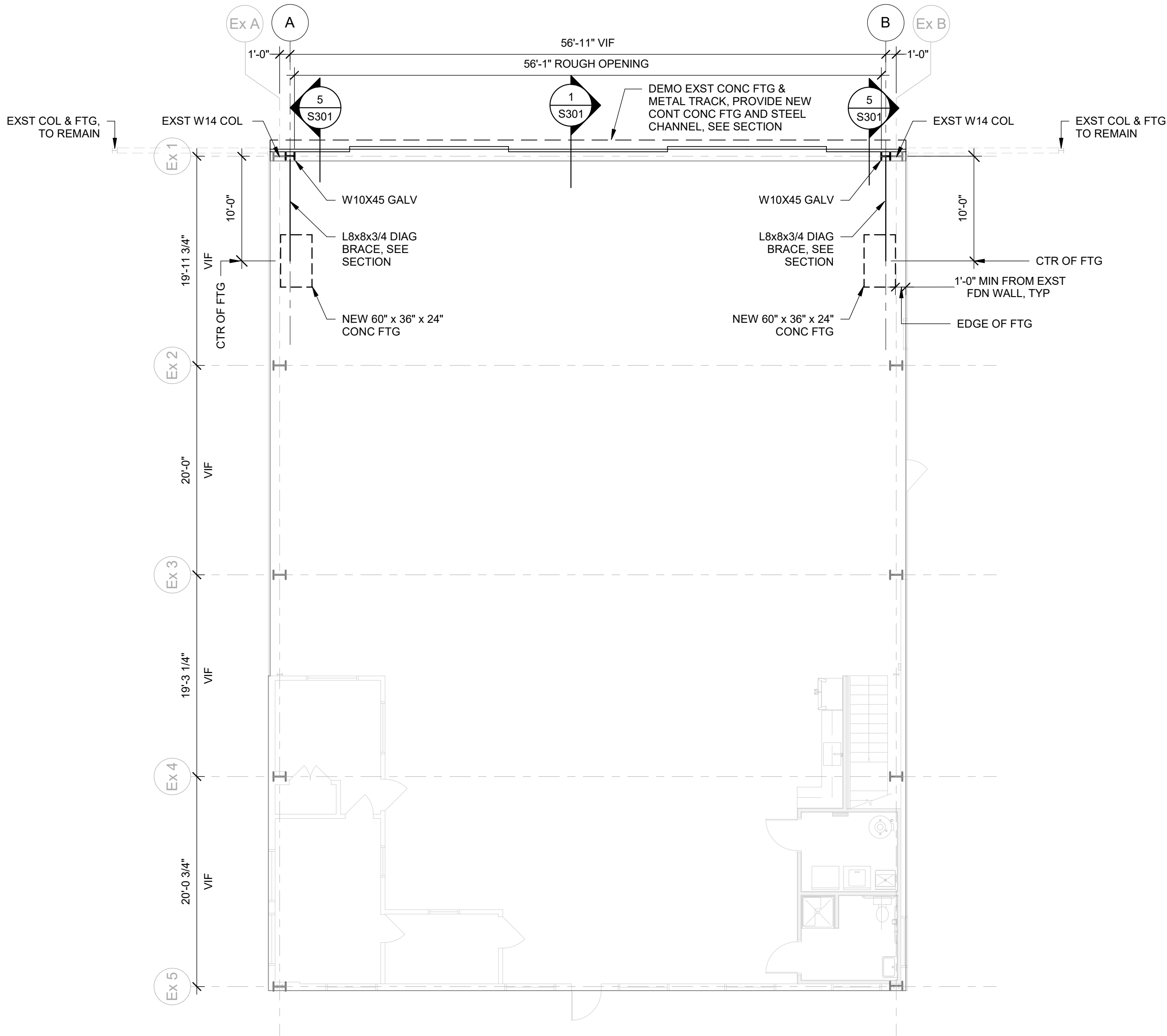
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DATE	05.09.2025
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DRAWN BY	JC
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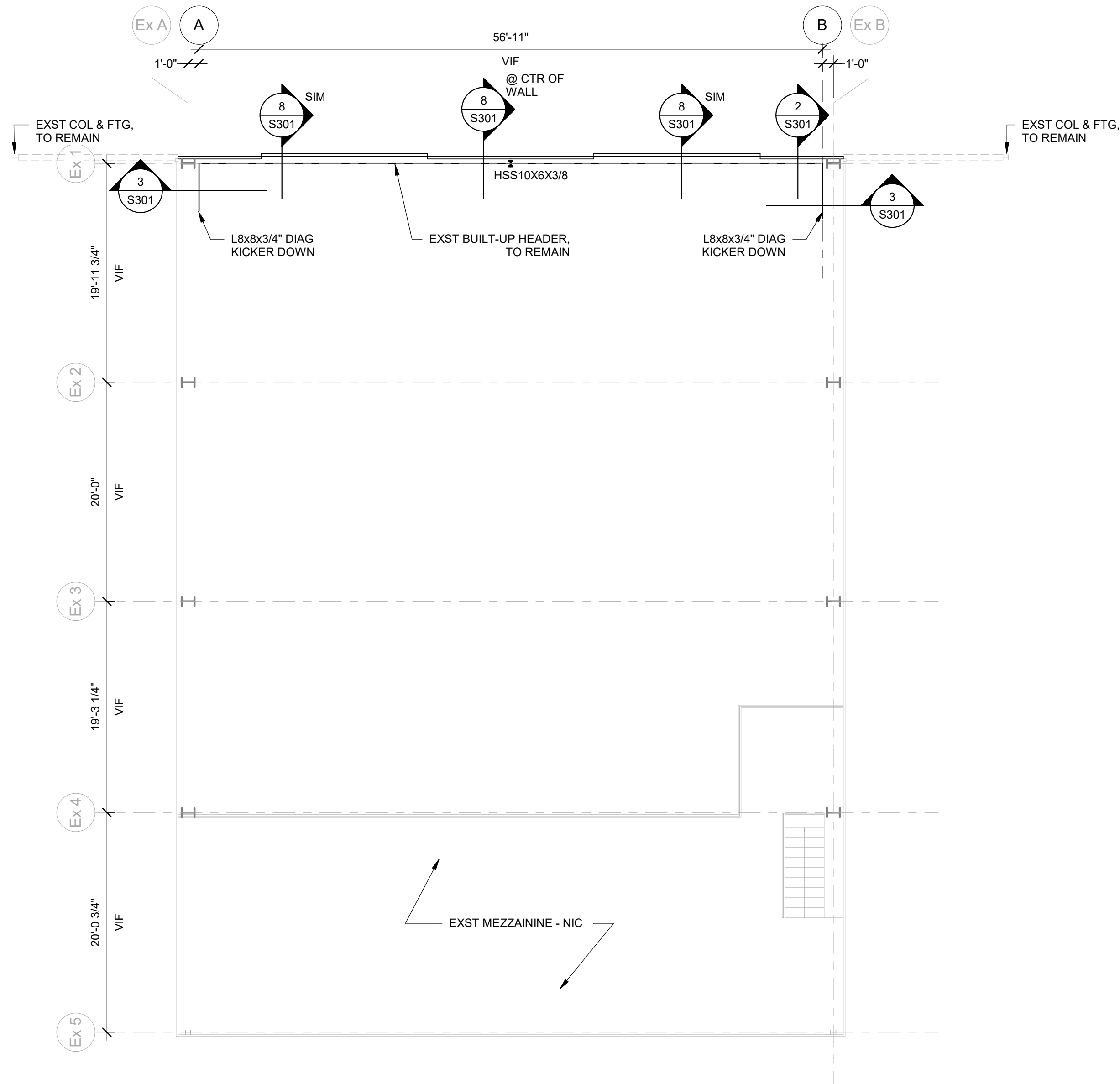
S003

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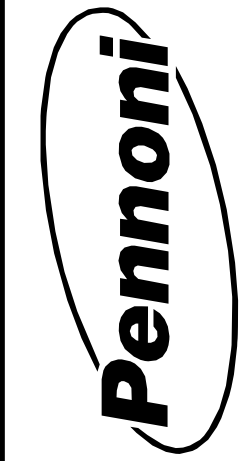
1 FOUNDATION PLAN
1/8" = 1'-0"

- PLAN NOTES:
1. TOP OF SLAB ELEVATION IS AT ELEVATION (0'-0"), UNLESS OTHERWISE NOTED. THUS (+) FROM DATUM EL. 0'-0".
 2. SEE DRAWING S000 SERIES FOR DESIGN CRITERIA, LOADING MAPS AND GENERAL NOTES.
 3. SEE S300 SERIES FOR SECTIONS AND TYPICAL CONSTRUCTION DETAILS.
 4. CONTRACTOR TO VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS / CONFIRM ALL MEASUREMENTS PRIOR TO FABRICATION OF NEW STEEL.



2 HEADER FRAMING PLAN
1/8" = 1'-0"

- PLAN NOTES:
1. TOP OF SLAB ELEVATION IS AT ELEVATION (0'-0"), UNLESS OTHERWISE NOTED. THUS (+) FROM DATUM EL. 0'-0".
 2. SEE DRAWING S000 SERIES FOR DESIGN CRITERIA, LOADING MAPS AND GENERAL NOTES.
 3. SEE S300 SERIES FOR SECTIONS AND TYPICAL CONSTRUCTION DETAILS.
 4. CONTRACTOR TO VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS / CONFIRM ALL MEASUREMENTS PRIOR TO FABRICATION OF NEW STEEL.



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REPLACEMENT
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WOODBINE, NJ

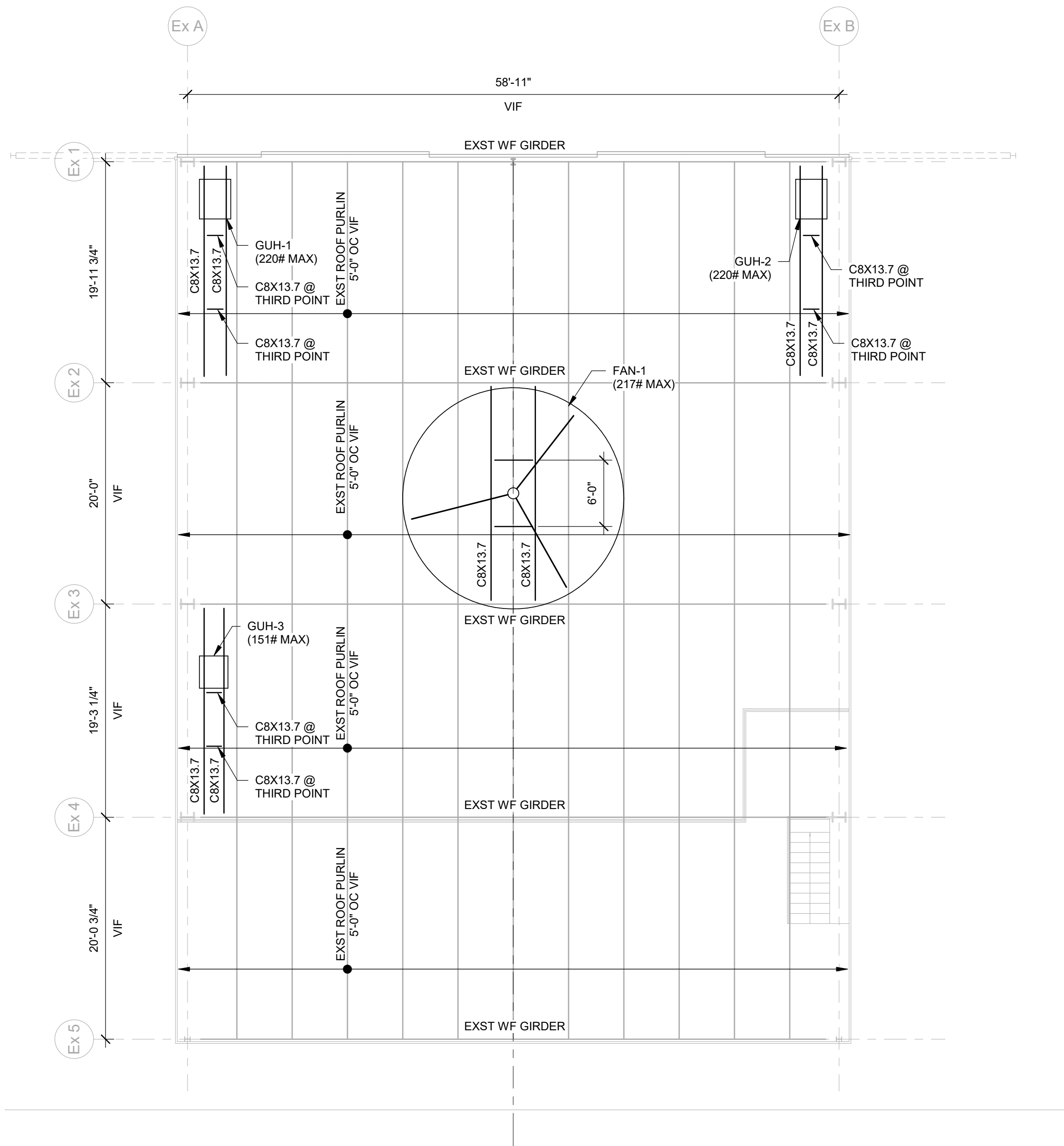
STRUCTURAL FOUNDATION AND FRAMING PLAN

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DRAWING SCALE	AS NOTED
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APPROVED BY	RHP


S101



1 ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES:

1. SEE DRAWING 5000 SERIES FOR DESIGN CRITERIA, LOADING MAPS AND GENERAL NOTES.
2. SEE DRAWING 5300 SERIES FOR TYPICAL CONSTRUCTION DETAILS.
3. SEE GENERAL STRUCTURAL NOTES FOR WORK INVOLVING MODIFICATION OF THE EXISTING STRUCTURE.
4. PROPOSED STEEL CHANNEL FRAMING TO BE CONNECTED TO THE WEBS OF THE EXISTING WIDE FLANGE STEEL GIRDER. SEE TYPICAL BOLTED CONNECTION DETAILS.
5. NON-FRAME METALLIC EQUIPMENT ARE PERMITTED TO BE SUSPENDED FROM THE METAL DECK OR EXISTING METAL PURLINS. EQUIPMENT IS ONLY TO BE SUSPENDED FROM NEW STEEL CHANNEL FRAMING WHICH IS CONNECTED TO THE EXISTING STEEL WIDE FLANGE GIRDERS.



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ROOF FRAMING PLAN

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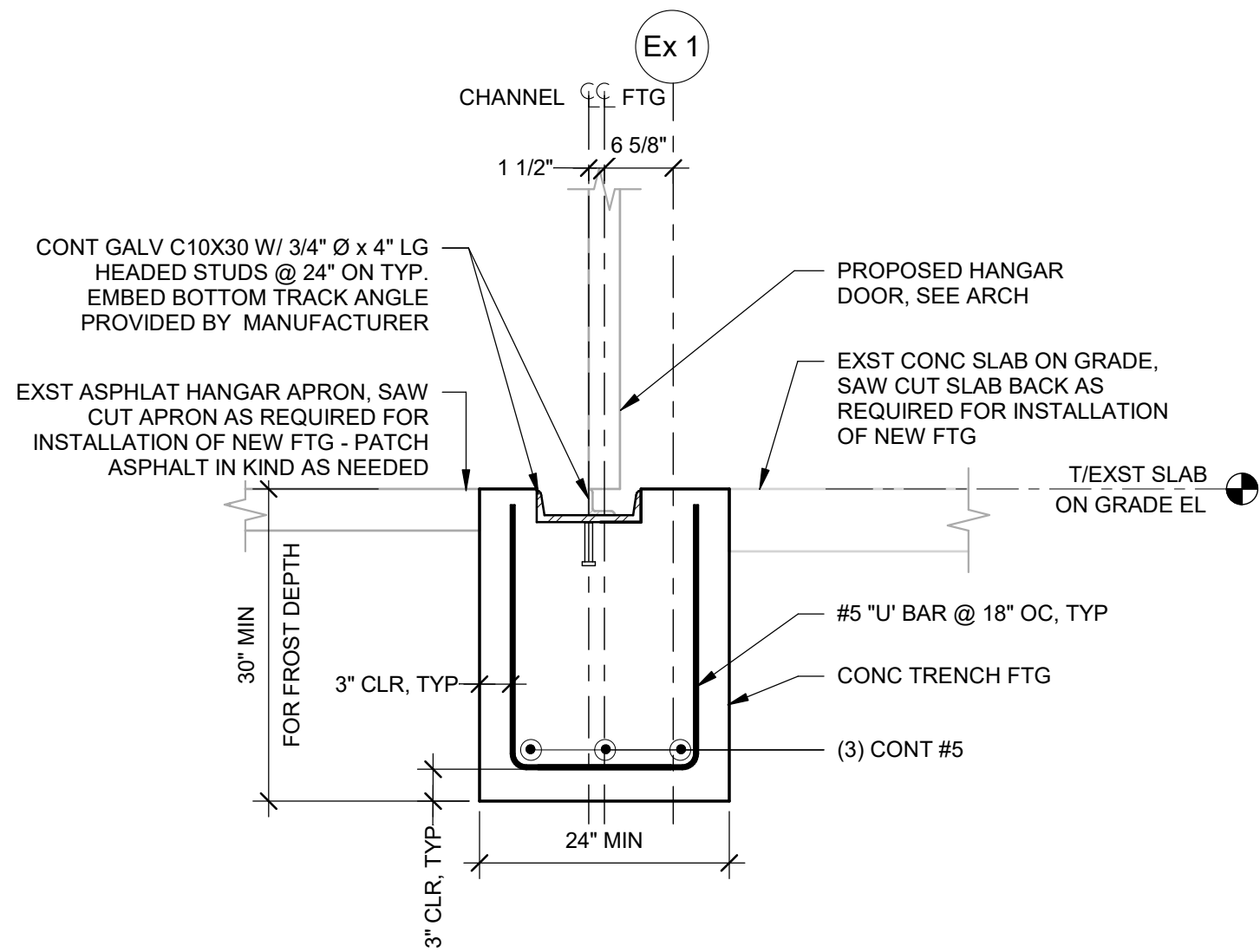
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PROJECT	MCKAX25002
DATE	05.09.2025
DRAWING SCALE	AS NOTED
DRAWN BY	JC
APPROVED BY	RHP

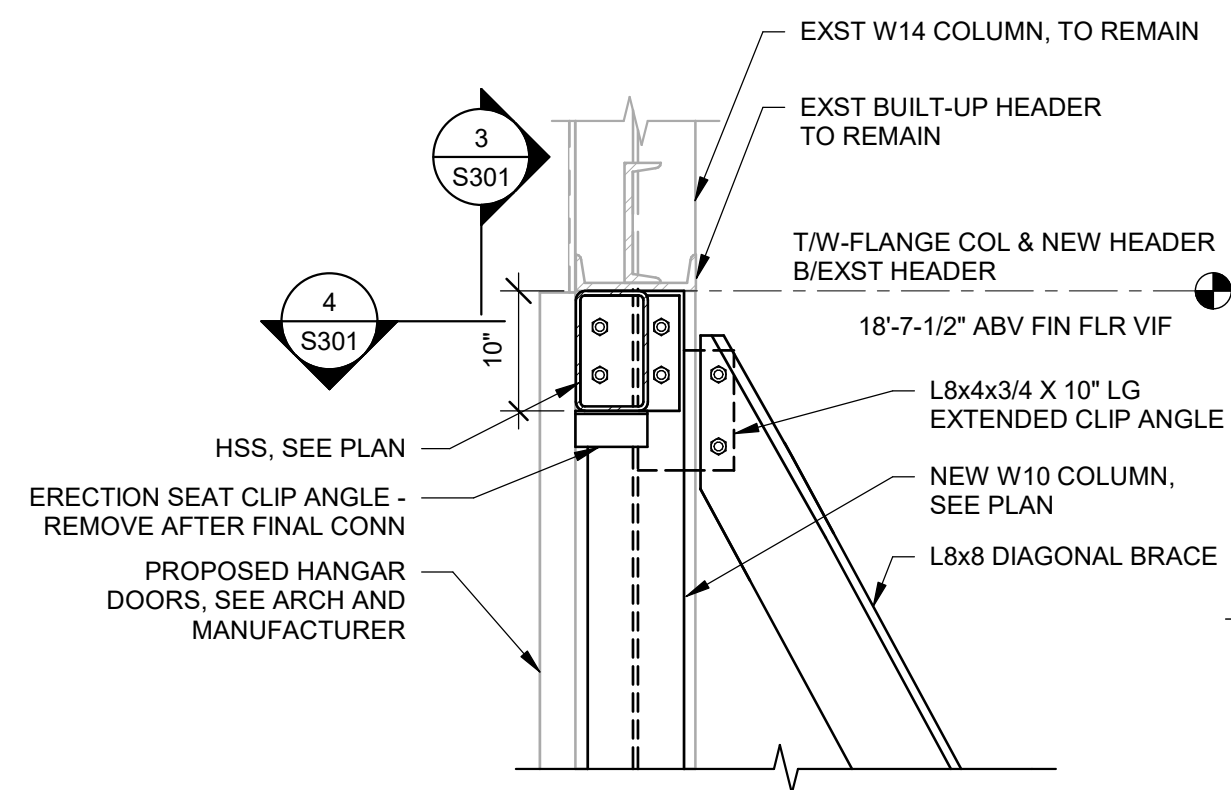
S102

SHEET 5 OF 6

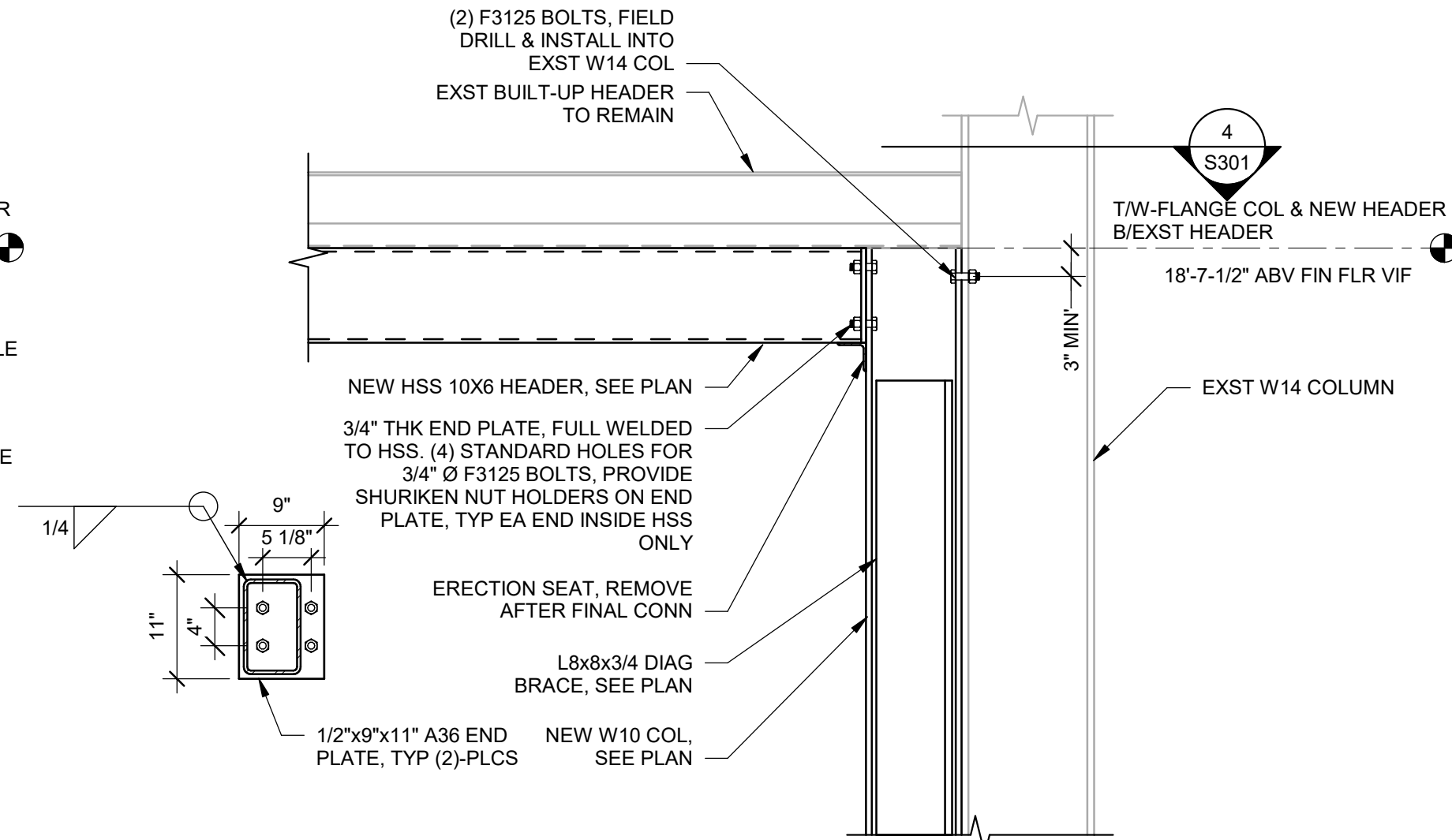
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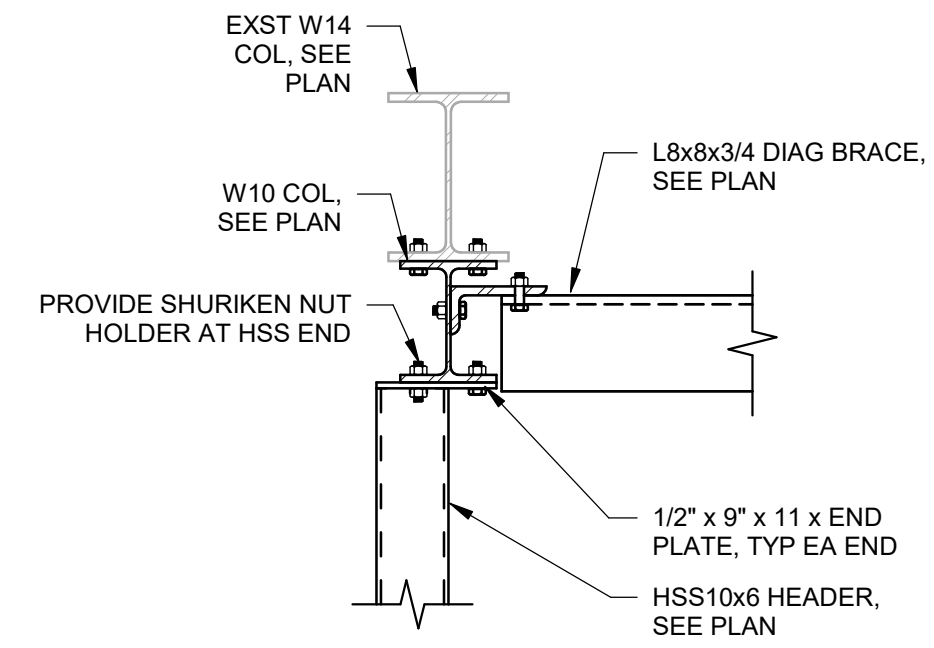
1 SECTION
3/4" = 1'-0"



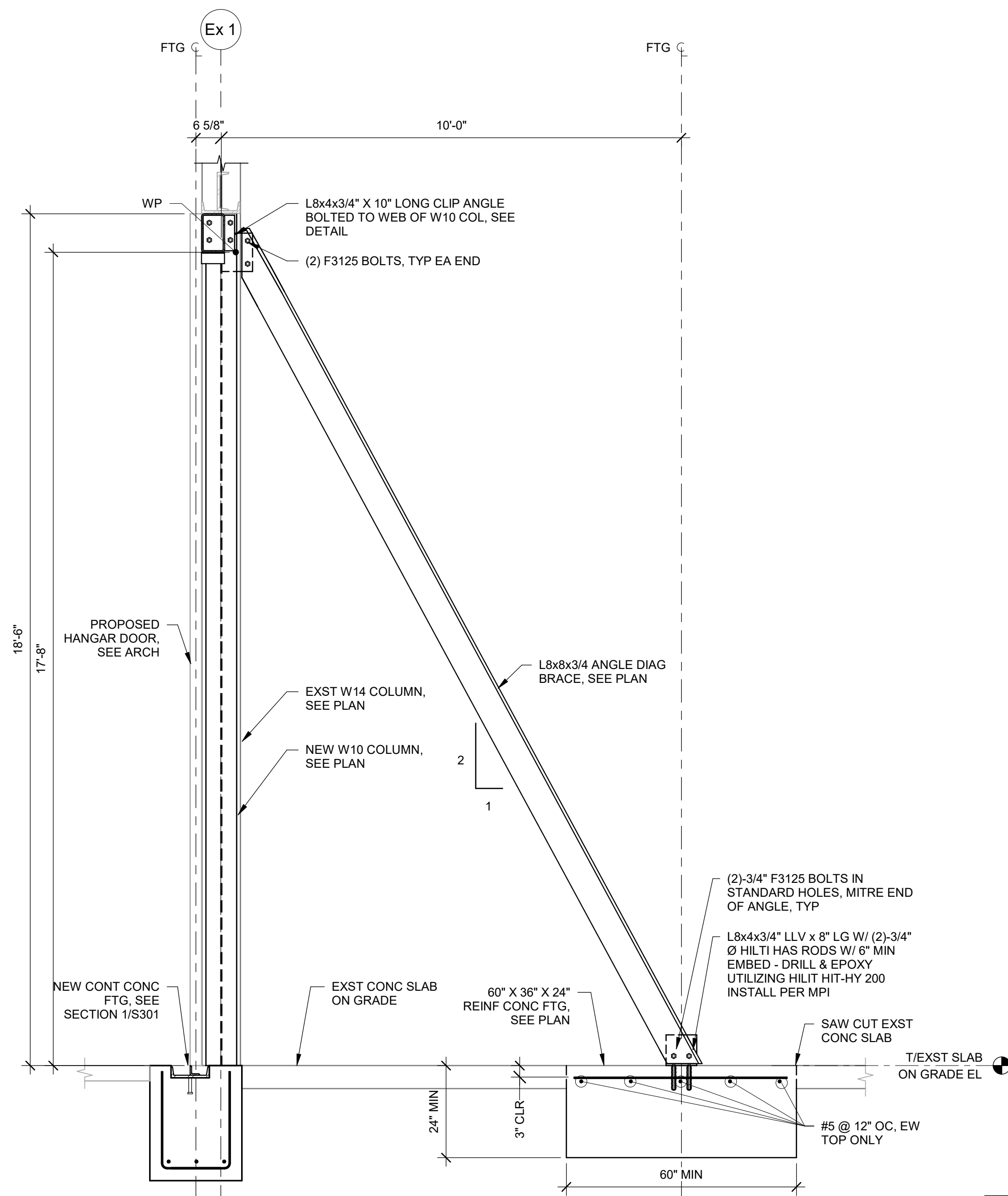
2 SECTION
3/4" = 1'-0"



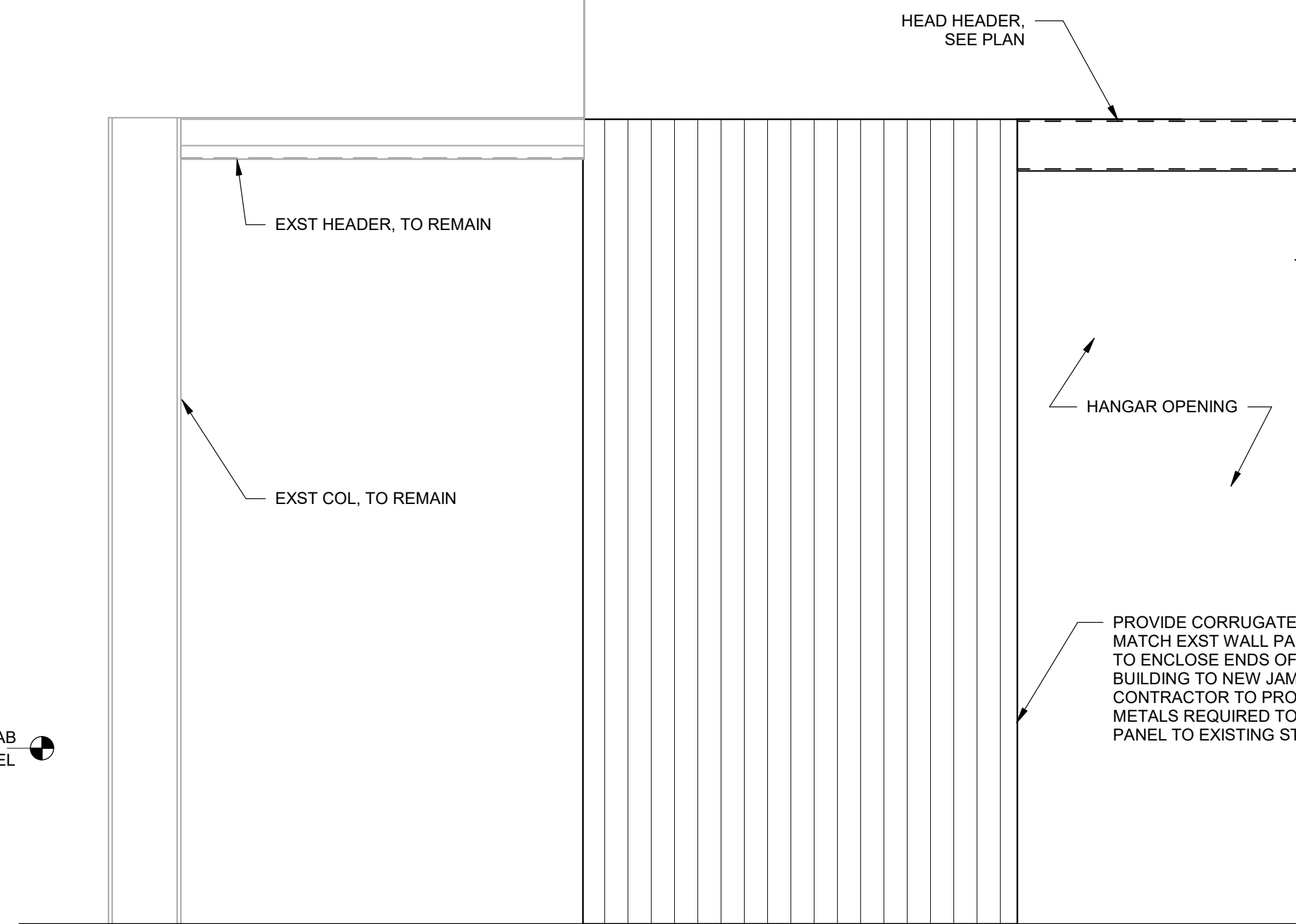
3 SECTION
3/4" = 1'-0"



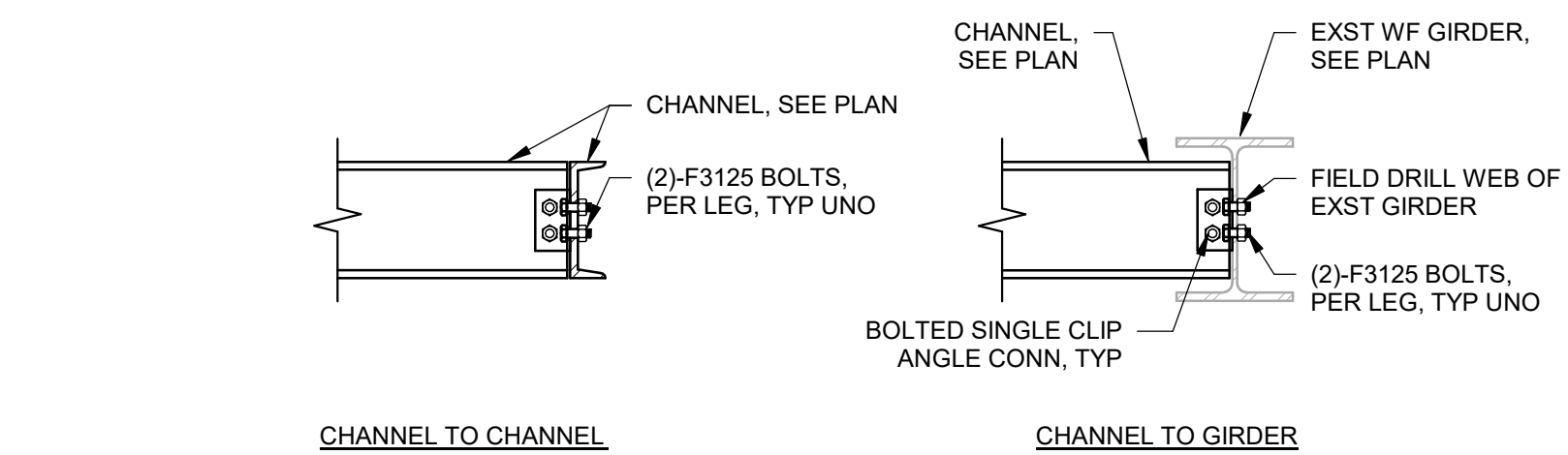
4 SECTION
3/4" = 1'-0"



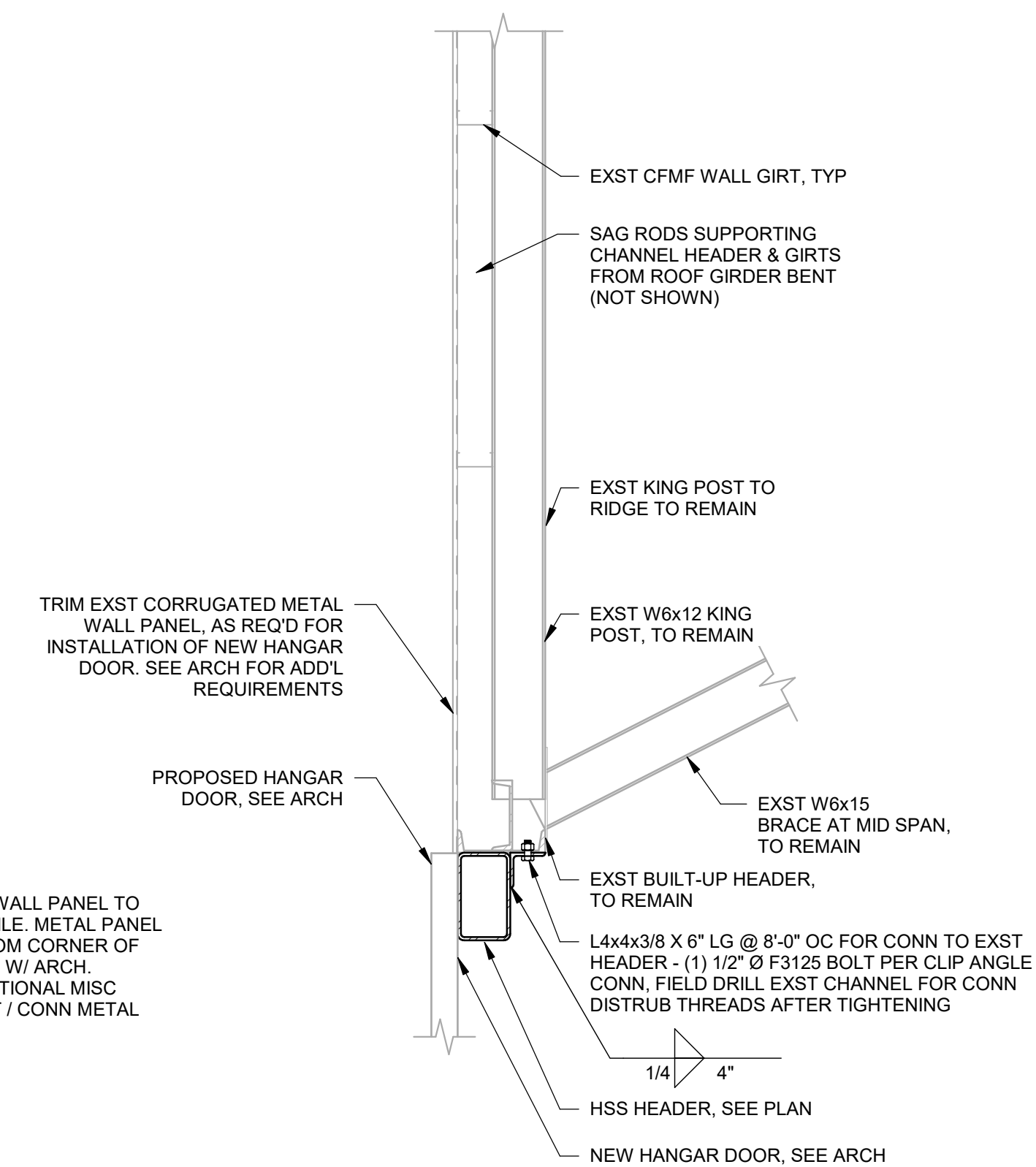
5 SECTION
1/2" = 1'-0"



6 SECTION
1/2" = 1'-0"

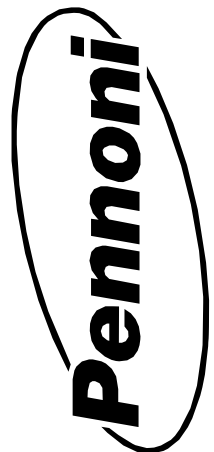


T.D1 TYPICAL BOLTED CONNECTIONS
N.T.S



8 SECTION
3/4" = 1'-0"

NOTE:
1. THIS SECTION OCCURS AT MIDDLE OF HANGAR END WALL.
2. NO KING POST OR WIDE FLANGE BRACE AT SIMILAR SECTION ALONG LENGTH OF HEADER



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WOODBINE, NJ

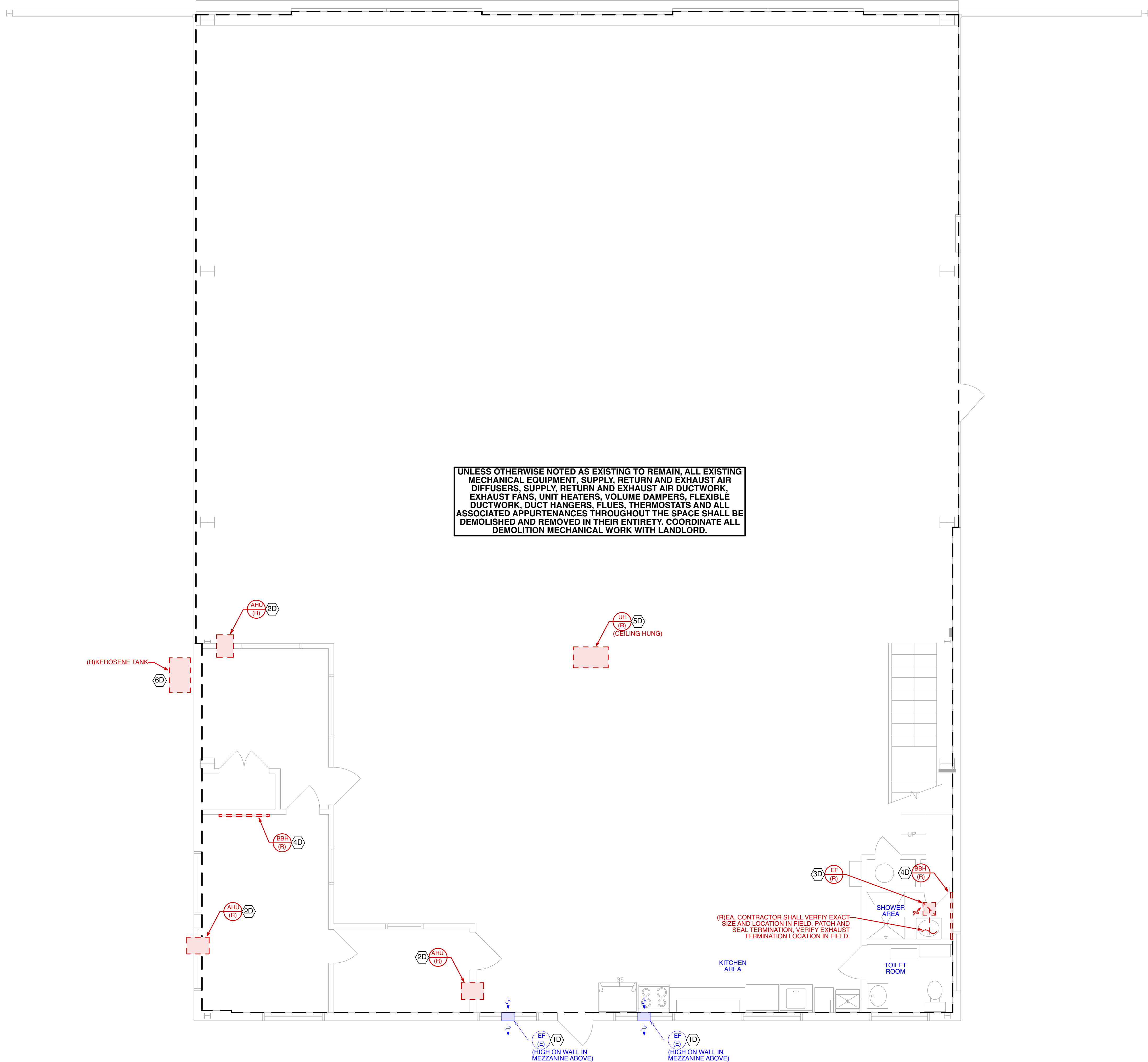
SECTIONS AND TYPICAL DETAILS

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APPROVED BY	RHP

S301



UNLESS OTHERWISE NOTED AS EXISTING TO REMAIN, ALL EXISTING MECHANICAL EQUIPMENT, SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS, SUPPLY, RETURN AND EXHAUST AIR DUCTWORK, EXHAUST FANS, UNIT HEATERS, VOLUME DAMPERS, FLEXIBLE DUCTWORK, DUCT HANGERS, FLUES, THERMOSTATS AND ALL ASSOCIATED APPURTENANCES THROUGHOUT THE SPACE SHALL BE DEMOLISHED AND REMOVED IN THEIR ENTIRETY. COORDINATE ALL DEMOLITION MECHANICAL WORK WITH LANDLORD.

1
FIRST FLOOR DEMOLITION
MECHANICAL PLAN
SCALE: 1/4" = 1' - 0"

DEMOLITION SHEET NOTES

- REFER TO "EXISTING EQUIPMENT NOTES" 1, 2 & 3 ON THIS SHEET FOR FURTHER INFORMATION.
- CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING THROUGH WALL AIR HANDLING UNIT AS SHOWN. ALL WORK NOT BEING REUSED SHALL BE DEMOLISHED, REMOVED AND MADE SAFE AS REQUIRED. ALL EXISTING THERMOSTATS, PIPING, VALVES, WIRING AND COMPONENTS SHALL BE DEMOLISHED AND REMOVED. ALL WALL PENETRATIONS SHALL BE PATCHED/SEALED IN A MANNER ACCEPTABLE TO THE LANDLORD/ARCHITECT.
- CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING EXHAUST FAN AS SHOWN. ALL WORK NOT BEING REUSED SHALL BE DEMOLISHED, REMOVED AND MADE SAFE AS REQUIRED. ALL EXISTING EXHAUST DUCTWORK, WIRING AND COMPONENTS SHALL BE DEMOLISHED AND REMOVED. ALL WALL / ROOF PENETRATIONS SHALL BE PATCHED/SEALED IN A MANNER ACCEPTABLE TO THE LANDLORD/ARCHITECT.
- CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING ELECTRIC BASEBOARD HEATER AS SHOWN. ALL WORK NOT BEING REUSED SHALL BE DEMOLISHED, REMOVED AND MADE SAFE AS REQUIRED. ALL EXISTING DUCTWORK, WIRING AND COMPONENTS SHALL BE DEMOLISHED AND REMOVED. ALL WALL PENETRATIONS SHALL BE PATCHED/SEALED IN A MANNER ACCEPTABLE TO THE LANDLORD/ARCHITECT.
- CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING UNIT HEATER AS SHOWN. ALL WORK NOT BEING REUSED SHALL BE DEMOLISHED, REMOVED AND MADE SAFE AS REQUIRED. ALL EXISTING DUCTWORK, WIRING AND COMPONENTS SHALL BE DEMOLISHED AND REMOVED. ALL WALL/ROOF PENETRATIONS SHALL BE PATCHED/SEALED IN A MANNER ACCEPTABLE TO THE LANDLORD/ARCHITECT.
- CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING KEROSENE TANK AS SHOWN. ALL WORK NOT BEING REUSED SHALL BE DEMOLISHED, REMOVED AND MADE SAFE AS REQUIRED. ALL EXISTING COMPONENTS SHALL BE DEMOLISHED AND REMOVED. ALL WALL/ROOF PENETRATIONS SHALL BE PATCHED/SEALED IN A MANNER ACCEPTABLE TO THE LANDLORD/ARCHITECT.

DRAWING SYMBOLS

- (E) EXISTING MECHANICAL WORK TO REMAIN
- (R) EXISTING MECHANICAL WORK TO BE DEMOLISHED AND REMOVED
- (RE) EXISTING MECHANICAL WORK TO BE RELOCATED AS SHOWN
- (N) NEW MECHANICAL WORK
- EXISTING MECHANICAL WORK TO REMAIN
- EXISTING MECHANICAL WORK TO BE DEMOLISHED AND REMOVED
- NEW MECHANICAL WORK
- POINT OF DEMOLITION, CUT AND CAP BACK TO POINT INDICATED ON PLANS
- POINT OF CONNECTION, EXTEND AND CONNECT TO EXISTING WHERE INDICATED

EXISTING EQUIPMENT NOTES

- ALL EXISTING HVAC EQUIPMENT TO BE REUSED SHALL BE REFURBISHED WHERE APPLICABLE AND HAVE FULL MAINTENANCE ROUTINES PERFORMED INCLUDING LUBRICATION, ADJUSTMENT OR REPLACEMENT OF PARTS. REPLACEMENT OF VALVES AND GAUGES AND CHECKING FOR PROPER OPERATION. ALL MINOR REPAIRS SHALL BE INCLUDED AS PART OF THIS CONTRACT. SHOULD MAJOR WORK ON THE EQUIPMENT BE REQUIRED, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO OWNER AND ENGINEER, INDICATING THE NATURE OF THE WORK ALONG WITH A COST ESTIMATE TO PERFORM SAID REPAIRS.
- ALL EXISTING CONTROLS TO BE REUSED SHALL BE REFURBISHED WHERE APPLICABLE AND HAVE FULL MAINTENANCE ROUTINES PERFORMED INCLUDING CALIBRATION, ADJUSTMENT AND VERIFICATION OF SEQUENCE OF OPERATION. ALL MINOR REPAIRS SHALL BE INCLUDED AS PART OF THIS CONTRACT. SHOULD CONTROLS NEED REPLACEMENT OR OTHER SIGNIFICANT REPAIRS THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO OWNER AND ENGINEER, INDICATING THE NATURE OF THE WORK ALONG WITH A COST ESTIMATE TO PERFORM SAID REPAIRS.
- CONTRACTOR SHALL CARRY A CONTINGENCY IN THEIR PRICE TO PERFORM THESE REPAIRS. IF REPAIR WORK IS APPROVED, THE CONTRACTOR SHALL DRAW AGAINST CONTINGENCY. IF REPAIR WORK IS NOT APPROVED / REQUIRED, CONTINGENCY SHALL BE CREDITED BACK TO OWNER.

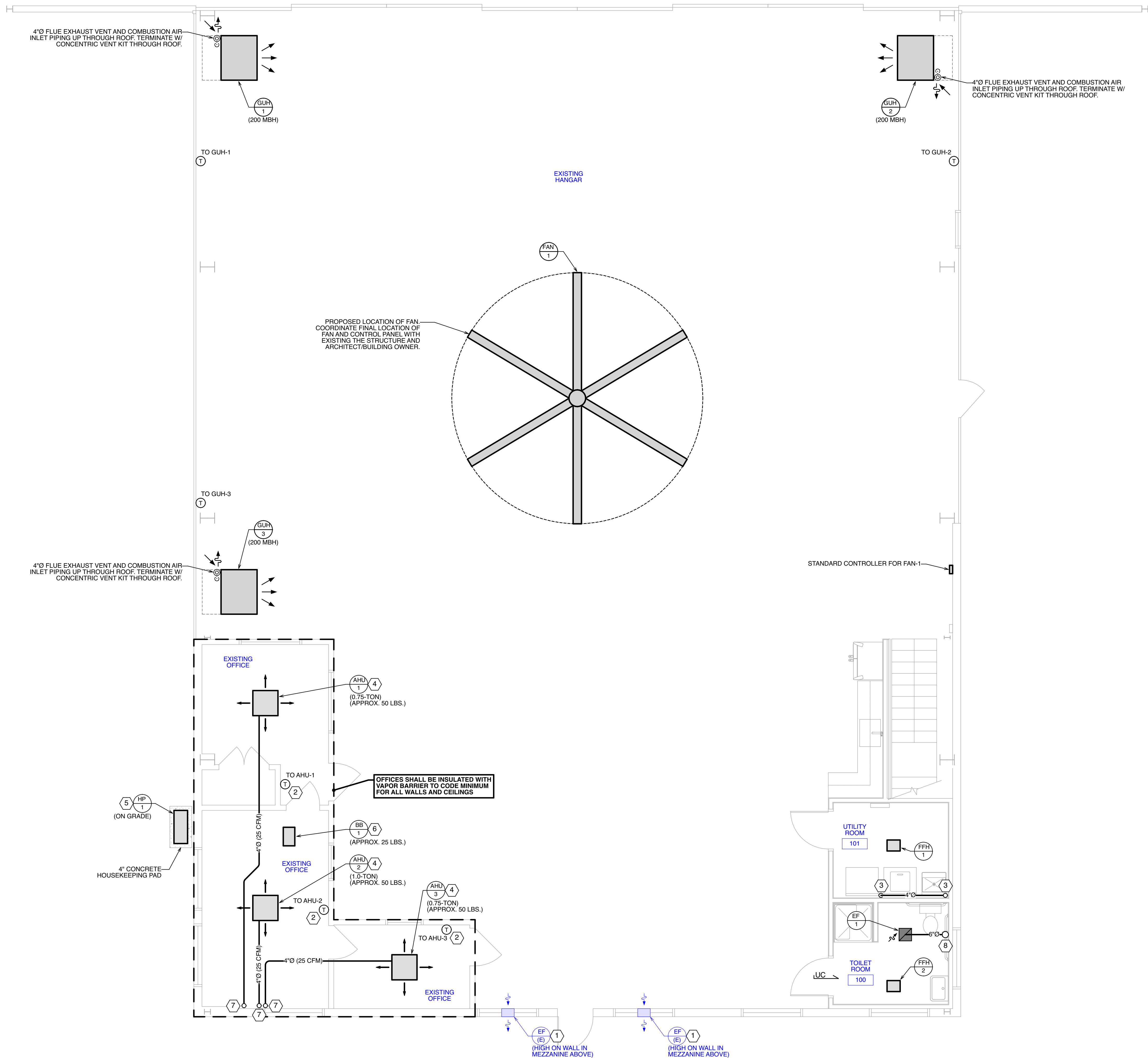
DEMOLITION GENERAL NOTES

- REMOVE DESIGNATED ELEMENTS AS SHOWN ON DRAWINGS.
- ALL MECHANICAL EQUIPMENT AND ASSOCIATED APPURTENANCES DESCRIBED SHALL BE REMOVED AND DEMOLISHED.
- ALL ELECTRICAL WIRING SHALL BE DEMOLISHED BACK TO MAIN PANEL UNLESS INDICATED TO BE RECONNECTED.
- COMPLY WITH APPLICABLE NFPA STANDARDS WHEN TORCH CUTTING.
- PROVIDE, ERECT AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES AS REQUIRED.
- OBTAIN WRITTEN CONSENT OF OWNER PRIOR TO TORCH CUTTING.
- ERECT AND MAINTAIN TEMPORARY PARTITIONS TO PREVENT SPREAD OF DUST, FUMES, NOISE AND SMOKE TO PROVIDE FOR CONTINUING OWNER OCCUPANCY.
- CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT BUILDING AREAS. MAINTAIN PROTECTED LEGAL EGRESS AND ACCESS AT ALL TIMES. KEEP REQUIRED EXIT WAYS UNENCUMBERED AT ALL TIMES AND ARTIFICIALLY LIGHTED.
- ALL SYSTEMS CONTAINING REFRIGERANTS SHALL BE EVACUATED FOR REFRIGERANT RECYCLING PRIOR TO DEMOLITION.
- REMOVE DEMOLISHED MATERIALS FROM SITE AS WORK PROGRESSES AND DISPOSE OF IN A PROPER, LEGAL MANNER. UPON COMPLETION OF WORK, LEAVE AREAS OF WORK IN BROOM CLEAN CONDITION AT THE END OF EACH DAY.
- COORDINATE ALL DEMOLITION WORK WITH FACILITIES MANAGEMENT PRIOR TO SHUT DOWN THE SERVICE MAINS TO PERFORM THE REQUIRED WORK.
- PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONSTRUCTION MANAGER SHALL WALK THE PROJECT WITH THE CONTRACTOR PERFORMING THIS WORK TO CONFIRM THE EXTENT OF DEMOLITION.
- THE CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING THEIR PROPOSAL TO VERIFY ACTUAL SITE CONDITIONS AND ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S ATTENTION PRIOR TO SUBMITTING THEIR BID. THE CONTRACTOR SHALL INCLUDE ALL DEMOLITION WORK EXPOSED AND CONCEALED, WHETHER OR NOT SHOWN ON DRAWINGS, NECESSARY FOR THE EFFECTIVE INSTALLATION AND PERFORMANCE OF NEW SYSTEM. THE CONTRACTOR SHALL ALSO INCLUDE TEMPORARY REMOVAL AND REINSTALLATION OF EXISTING WORK WHEREVER NECESSARY. THE OWNER SHALL NOT ACCEPT (NOR THE CONTRACTOR PAY) EXTRA COSTS ASSOCIATED WITH THE DEMOLITION AND/OR TEMPORARY REMOVAL/REINSTALLATION WORK FROM THE CONTRACTOR.
- CONTRACTOR SHALL PATCH ROOF AS REQUIRED AND SEAL WATERTIGHT (CONTRACTOR SHALL COORDINATE ALL ROOF WORK WITH EXISTING ROOF CONTRACTOR IN ORDER NOT TO VOID EXISTING ROOF WARRANTY).

EXISTING CONDITIONS NOTES

- ALL THE EXISTING DUCTWORK SIZES, LOCATIONS, EXISTING MECHANICAL EQUIPMENT LOCATIONS, TAGS, EXISTING ARCHITECTURAL PLANS, ETC., HAVE BEEN DOCUMENTED BASED OFF PHOTOGRAPHS AND SURVEY DATA BY HOLSTEIN WHITE, INC. FROM APRIL 4, 2025.
- ALTHOUGH THE EXISTING CONDITIONS HAVE BEEN MODIFIED PER OBSERVATIONS IN THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM FINAL FIELD VERIFICATION OF ALL OF THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

05/10/25		ISSUED FOR BID	
No.	DATE	DESCRIPTION	REV'D BY
APPROVAL:		PROJECT:	
		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECROQUE BLVD. WOODBINE, NJ 08270	
TITLE:		FIRST FLOOR DEMOLITION MECHANICAL PLAN	
Joseph F. McKernan Jr., Architects & Associates 100 Dabbs Lane, Suite 204, Cherry Hill, New Jersey 08034		SCALE: AS NOTED PROJ. NO.: 1336 DATE: 05/10/25 REV'D: DA DRAWN BY: RY CHECKED BY: BA SW	
HOLSTEIN WHITE 2800 Harrison Blvd., Suite 303 Trenton, NJ 08611 P: 609.222.7773 F: 609.222.7774 www.holsteinwhite.com		SEAL: ROBERT A. WHITE LICENSED PROFESSIONAL ARCHITECT NO. 125020001	
DRAWING NO. DM-1.0			



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

SHEET NOTES

1. REFER TO "EXISTING EQUIPMENT NOTES" 1, 2 & 3 ON THIS SHEET FOR FURTHER INFORMATION.
2. INDICATES LOCATION OF NEW SEVEN-DAY ELECTRONIC PROGRAMMABLE THERMOSTAT WITH OCCUPIED AND UNOCCUPIED CAPABILITIES FOR INDICATED HVAC UNIT. PROVIDE NON-TAMPER TRANSPARENT ENCLOSURE FOR THERMOSTAT. COORDINATE ENCLOSURE AND FINAL LOCATION OF THE THERMOSTAT WITH ARCHITECT/TENANT PRIOR TO INSTALLATION.
3. 4"Ø DRYER VENT FROM DRYER TO TERMINATE WITH MANUFACTURER'S RECOMMENDED ROOF CAP. COORDINATE EXACT LOCATION OF DRYER VENT CONNECTION W/ ARCHITECTURAL PLANS. SIZE AND INSTALL RIGID DUCT DRYER VENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL ROUTING OF EXHAUST DUCTWORK W/ ALL TRADES PRIOR TO INSTALLATION. PROVIDE FLUSH MOUNTED DRYER BOX AS MANUFACTURED BY "ULY GREY" (MODEL NO.: DB480). PROVIDE UL705 BOOSTER FAN IF VENT LENGTH EXCEEDS MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL ELECTRICAL REQUIREMENTS W/ ELECTRICAL CONTRACTOR.
4. REFER TO THE FOLLOWING NOTES FOR EACH AHU:
 - RUN REFRIGERANT PIPING FROM INDOOR AIR HANDLING UNIT TO CORRESPONDING OUTDOOR HEAT PUMP UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL RUNS WITH ARCHITECT.
 - CONDENSATE FROM AHU TO DRAIN TO SPLASH BLOCK ON GRADE. COORDINATE FINAL LOCATION IN FIELD AND WITH OWNER. PROVIDE INTEGRAL CONDENSATE PUMP. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - COORDINATE THE FINAL LOCATION OF AHU W/ ARCHITECT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL REQUIRED MAINTENANCE CLEARANCES.
5. REFER TO THE FOLLOWING NOTES FOR EACH HP:
 - COORDINATE THE FINAL LOCATION OF HP W/ ARCHITECT AND OWNER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL REQUIRED MAINTENANCE CLEARANCES.
 - ROUTE REFRIGERANT PIPING TO CORRESPONDING AHU. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL RUNS WITH ARCHITECT AND TENANT FLOORS ABOVE.
 - HEAT PUMP SHALL BE MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD OR 4" HIGH PRE-FABRICATED PAD.
6. REFER TO THE FOLLOWING NOTES REGARDING THE INDICATED BRANCH BOX:
 - EXTEND AND CONNECT REFRIGERANT PIPING (LIQUID AND SUCTION) FROM BRANCH BOX TO ASSOCIATED OUTDOOR UNIT. REFER TO VRF SYSTEM SCHEMATIC DIAGRAMS ON M-2.0 FOR FURTHER INFORMATION.
 - REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL ROUTING OF ALL REFRIGERANT PIPING WITH ALL TRADES PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE MANUFACTURER'S MAXIMUM ALLOWABLE REFRIGERANT LINE LENGTHS ARE NOT EXCEEDED.
 - CONDENSATE PIPING SHALL DRAIN TO SPLASH BLOCK ON GRADE.
7. 4"Ø OUTSIDE AIR UP. TERMINATE W/ GOOSENECK. CONTRACTOR SHALL ENSURE THAT ALL OUTSIDE AIR PENETRATIONS ARE INSTALLED A MINIMUM OF 10'-0" FROM ANY EXISTING EXHAUST TERMINATIONS.
8. 6"Ø EXHAUST UP. TERMINATE W/ GOOSENECK. CONTRACTOR SHALL ENSURE THAT ALL EXHAUST PENETRATIONS ARE INSTALLED A MINIMUM OF 10'-0" FROM ANY EXISTING OA INTAKES.

DRAWING SYMBOLS

- (E) EXISTING MECHANICAL WORK TO REMAIN
(R) EXISTING MECHANICAL WORK TO BE DEMOLISHED
(RE) EXISTING MECHANICAL WORK TO BE RELOCATED AS SHOWN
(N) NEW MECHANICAL WORK
- EXISTING MECHANICAL WORK TO REMAIN
- - - EXISTING MECHANICAL WORK TO BE DEMOLISHED AND REMOVED
— NEW MECHANICAL WORK
- ◆ POINT OF DEMOLITION, CUT AND CAP BACK TO POINT INDICATED ON PLANS
⊗ POINT OF CONNECTION, EXTEND AND CONNECT TO EXISTING WHERE INDICATED

GENERAL NOTES

1. ALL BRANCH DUCTWORK SHALL HAVE BALANCING DAMPERS.
2. COORDINATE ALL AIR DEVICES WITH LIGHTING AND REFLECTED CEILING PLANS.
3. IT IS THE INTENT TO MAINTAIN THE CEILING HEIGHTS AS SHOWN ON THE REFLECTED CEILING PLANS.
4. DUCTWORK SHOULD BE INSTALLED AS TIGHT AS POSSIBLE TO THE STRUCTURAL FRAMING AND DECK.
5. MECHANICAL CONTRACTOR SHALL FURNISH ALL REQUIRED CEILING ACCESS PANELS AND WALL OPENINGS TO SERVICE ALL MECHANICAL EQUIPMENT. INSTALLED BY O.C. COORDINATED ALL LOCATIONS AND SIZES WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED WITH RGD#8 LOW-VOC MASTIC. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH SMAGNA'S SEAL CLASS "B".
7. ALL DUCTWORK SIZES SHOWN ON PLAN ARE CLEAR I.D. DIMENSIONS. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED.
8. CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF CUTTING AND PATCHING WITH CURRENT ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY. COORDINATE ALL WORK WITH LANDLORD PRIOR TO CONSTRUCTION.
9. ALL INTAKE AIR OPENINGS SHALL BE A MINIMUM OF 10'-0" FROM ALL EXHAUST, SANITARY VENT AND FLUE LOCATIONS.

EXISTING EQUIPMENT NOTES



1. ALL EXISTING HVAC EQUIPMENT TO BE REUSED SHALL BE REFURBISHED WHERE APPLICABLE AND HAVE FULL MAINTENANCE ROUTINES PERFORMED INCLUDING LUBRICATION, ADJUSTMENT OR REPLACEMENT OF PARTS. REPLACEMENT OF VALVES AND GAUGES AND CHECKING FOR PROPER OPERATION. ALL MINOR REPAIRS SHALL BE INCLUDED AS PART OF THIS CONTRACT. SHOULD MAJOR WORK ON THE EQUIPMENT BE REQUIRED, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO OWNER AND ENGINEER, INDICATING THE NATURE OF THE WORK ALONG WITH A COST ESTIMATE TO PERFORM SAID REPAIRS.
2. ALL EXISTING CONTROLS TO BE REUSED SHALL BE REFURBISHED WHERE APPLICABLE AND HAVE FULL MAINTENANCE ROUTINES PERFORMED INCLUDING CALIBRATION, ADJUSTMENT AND VERIFICATION OF SEQUENCE OF OPERATION. ALL MINOR REPAIRS SHALL BE INCLUDED AS PART OF THIS CONTRACT. SHOULD CONTROLS NEED REPLACEMENT OR OTHER SIGNIFICANT REPAIRS THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO OWNER AND ENGINEER, INDICATING THE NATURE OF THE WORK ALONG WITH A COST ESTIMATE TO PERFORM SAID REPAIRS.
3. CONTRACTOR SHALL CARRY A CONTINGENCY IN THEIR PRICE TO PERFORM THESE REPAIRS. IF REPAIR WORK IS APPROVED, THE CONTRACTOR SHALL DRAW AGAINST CONTINGENCY. IF REPAIR WORK IS NOT APPROVED / REQUIRED, CONTINGENCY SHALL BE CREDITED BACK TO OWNER.

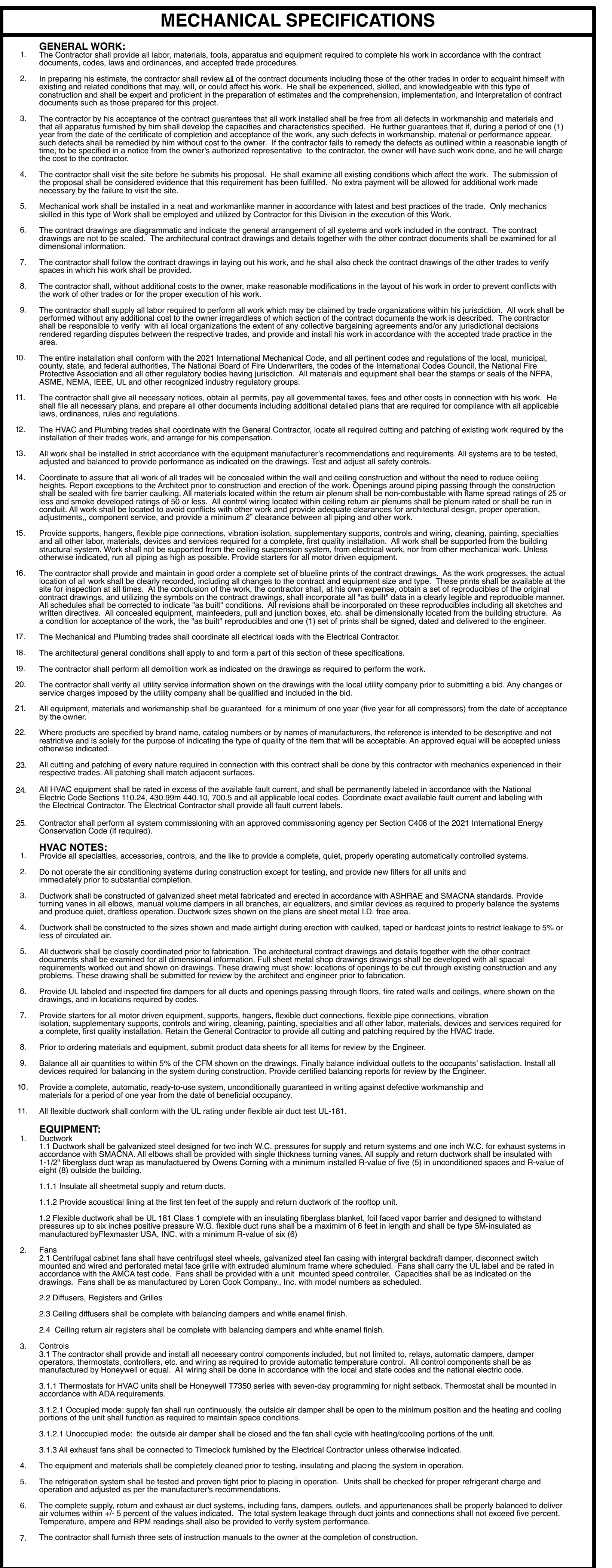
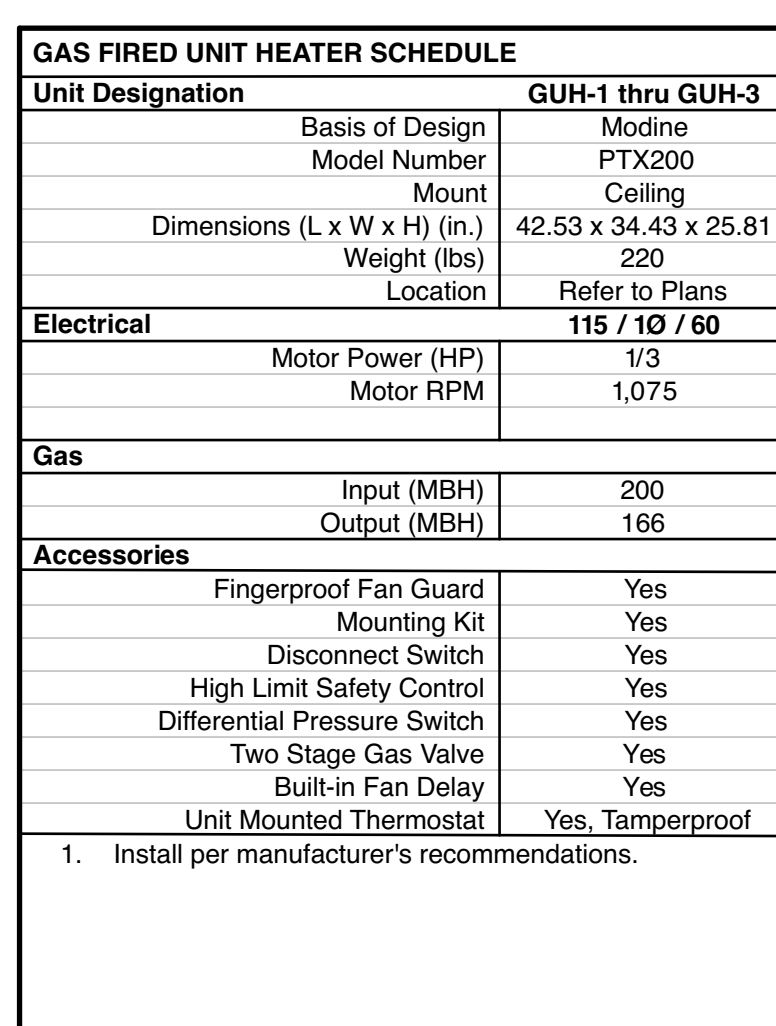
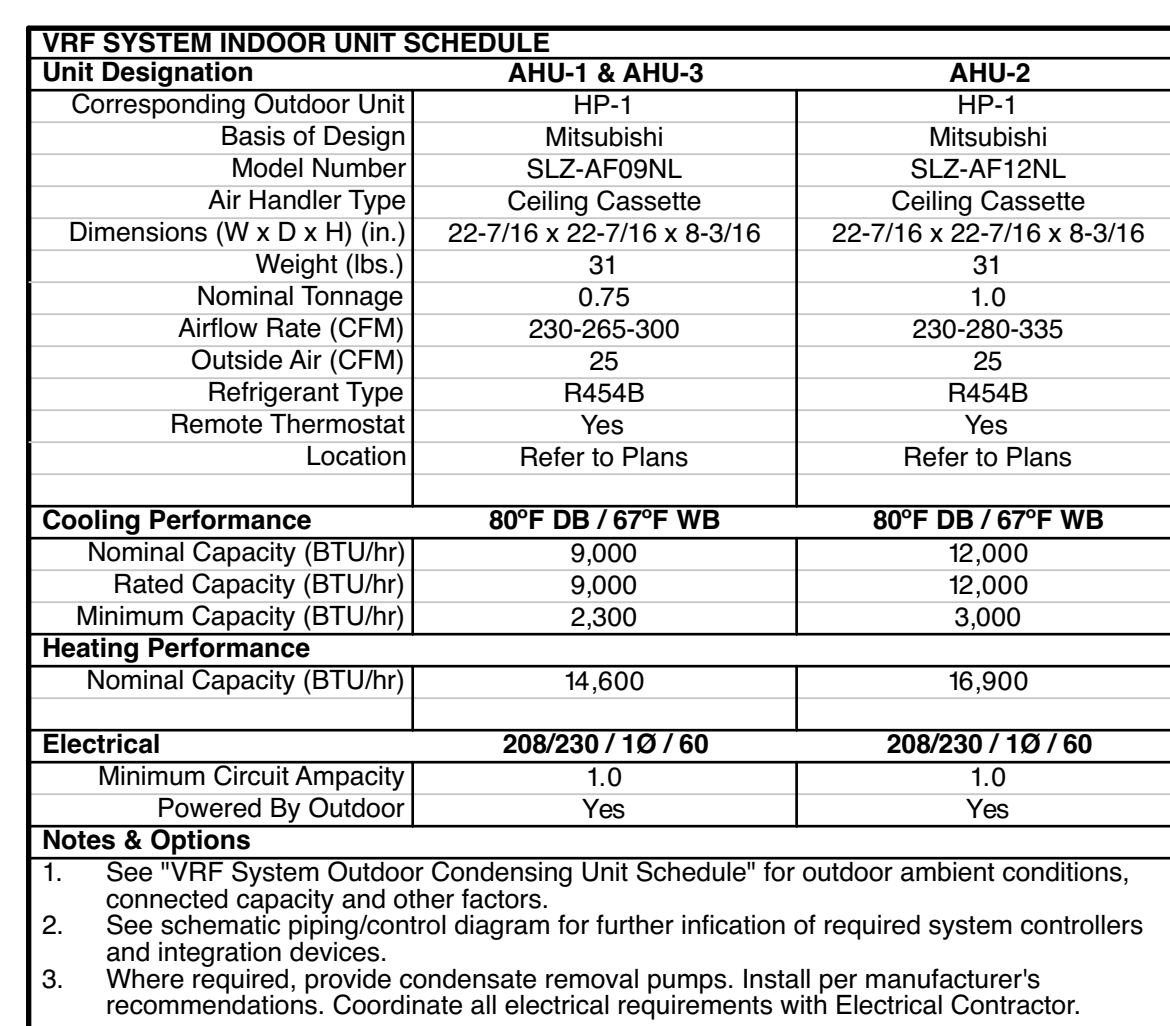
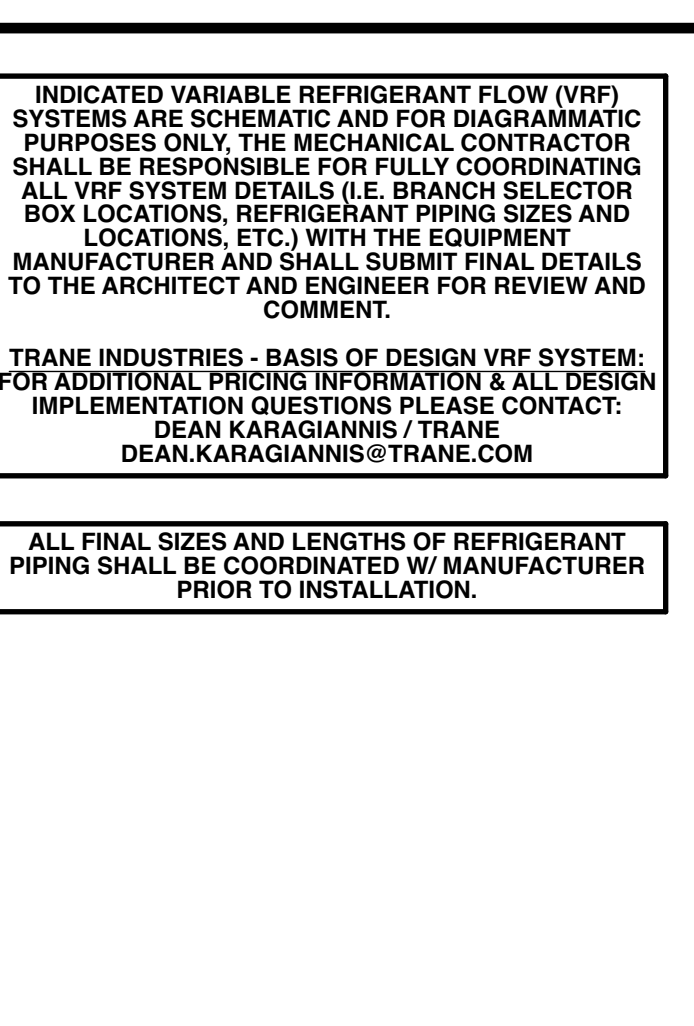
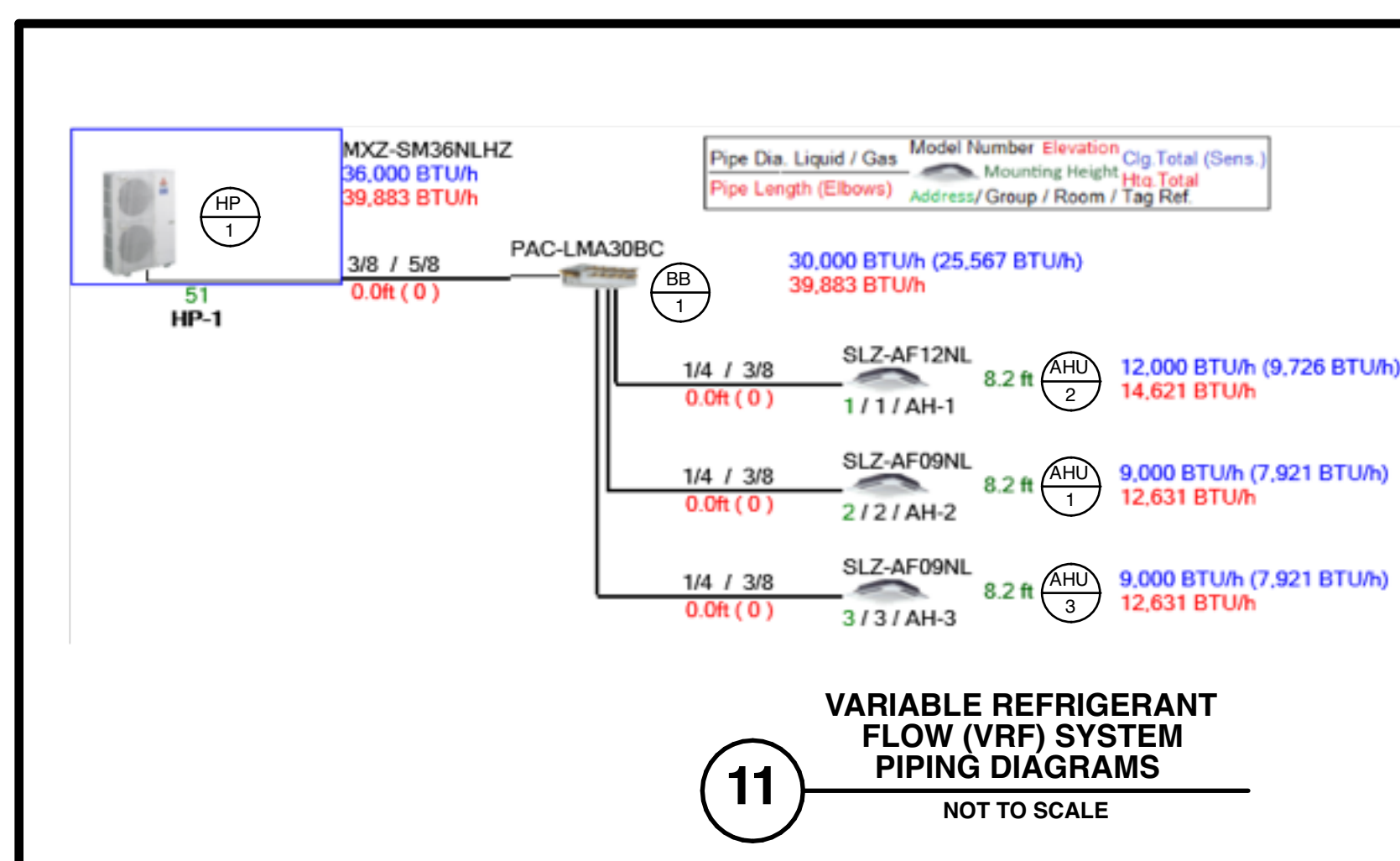
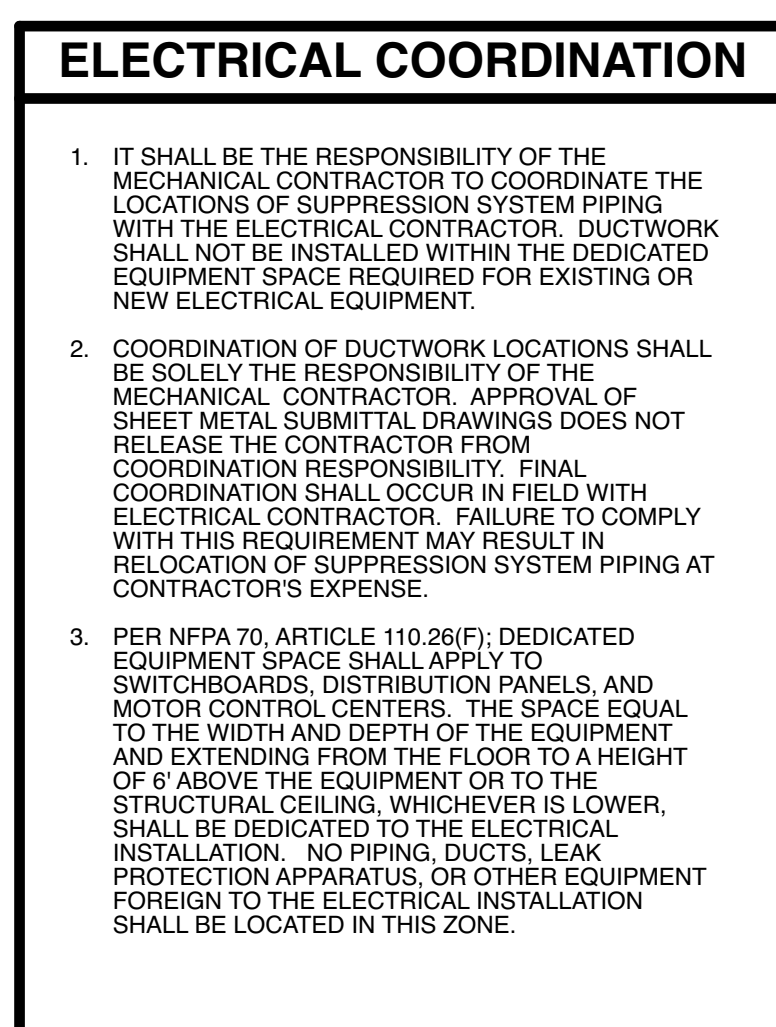
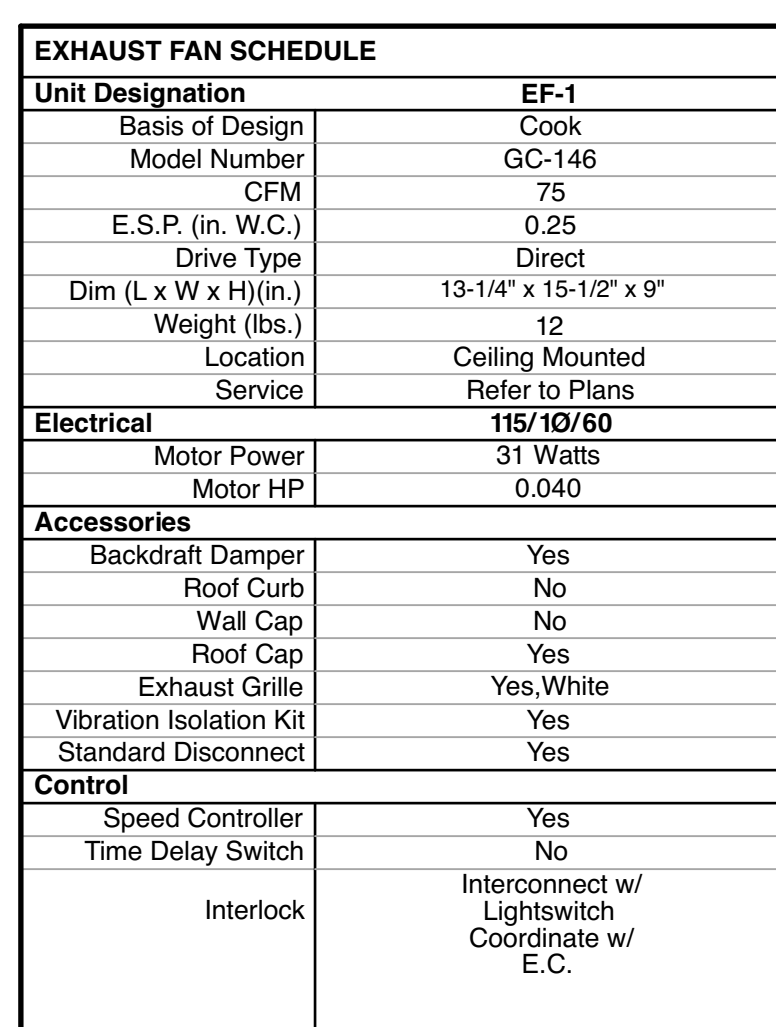
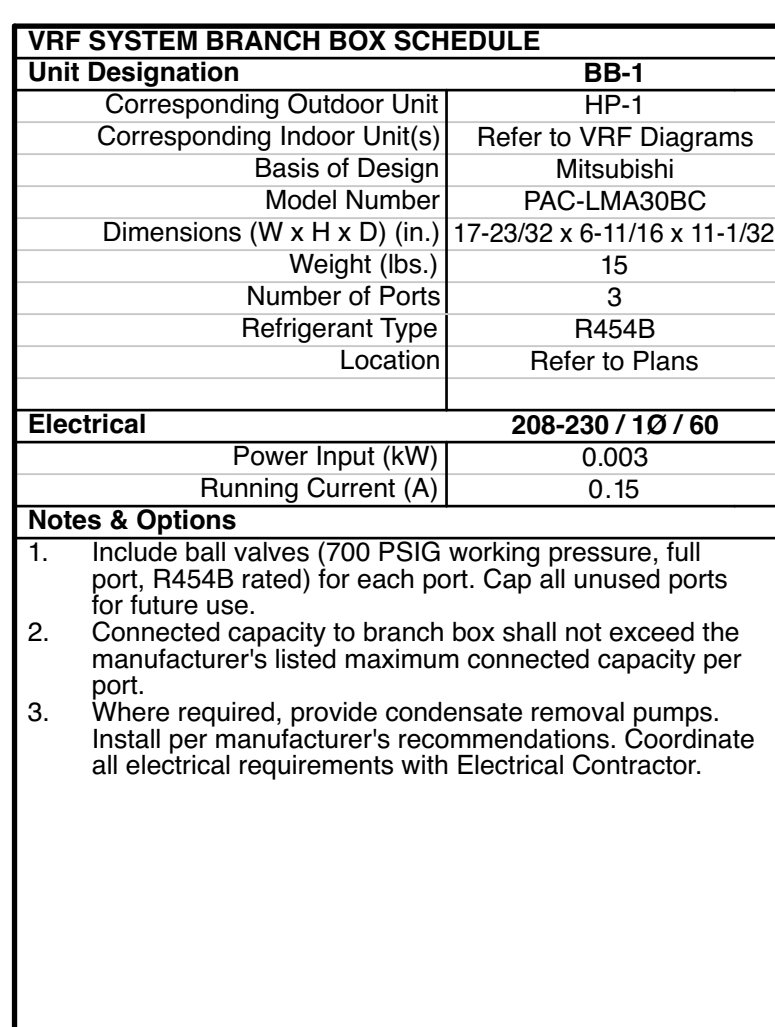
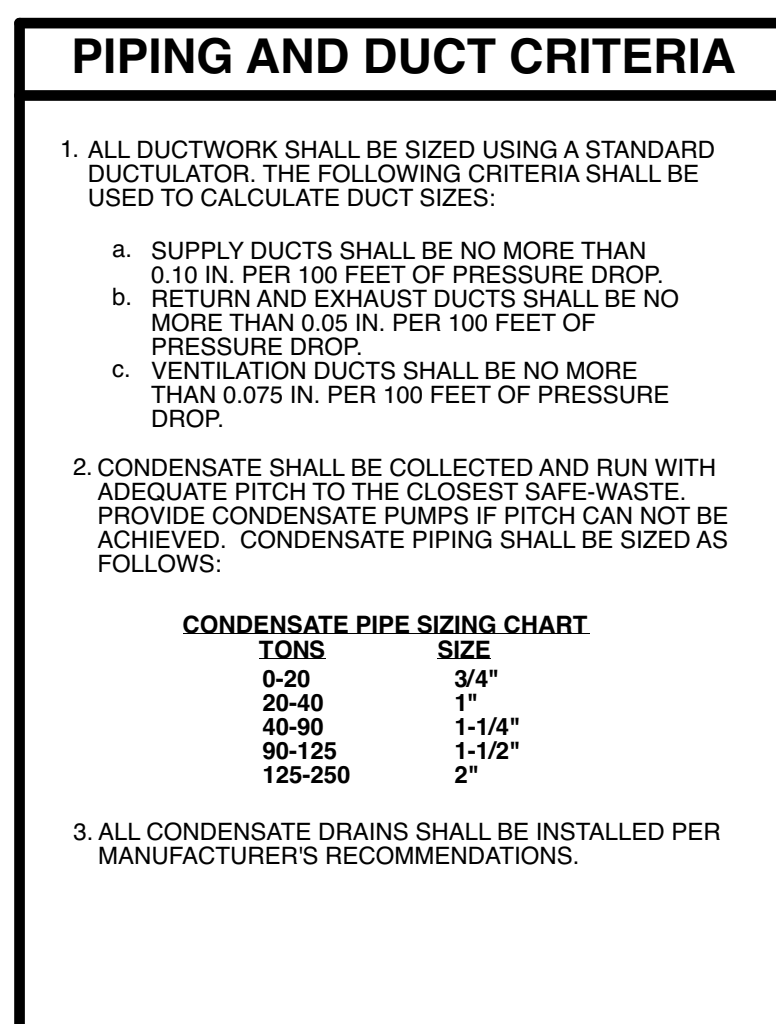
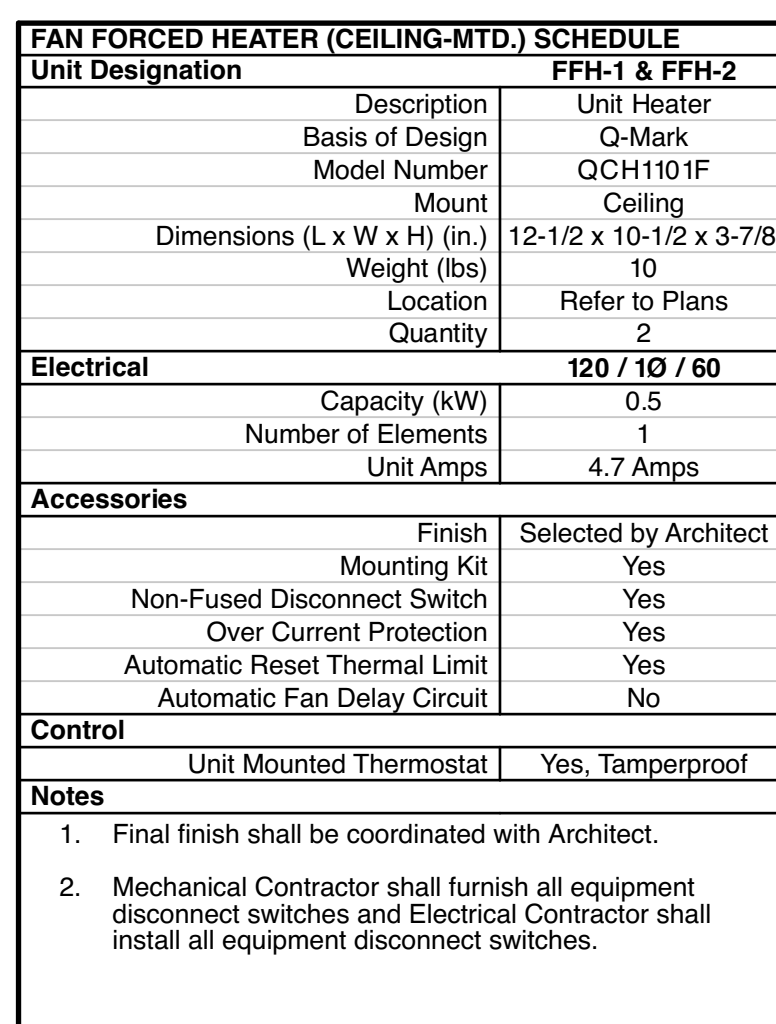
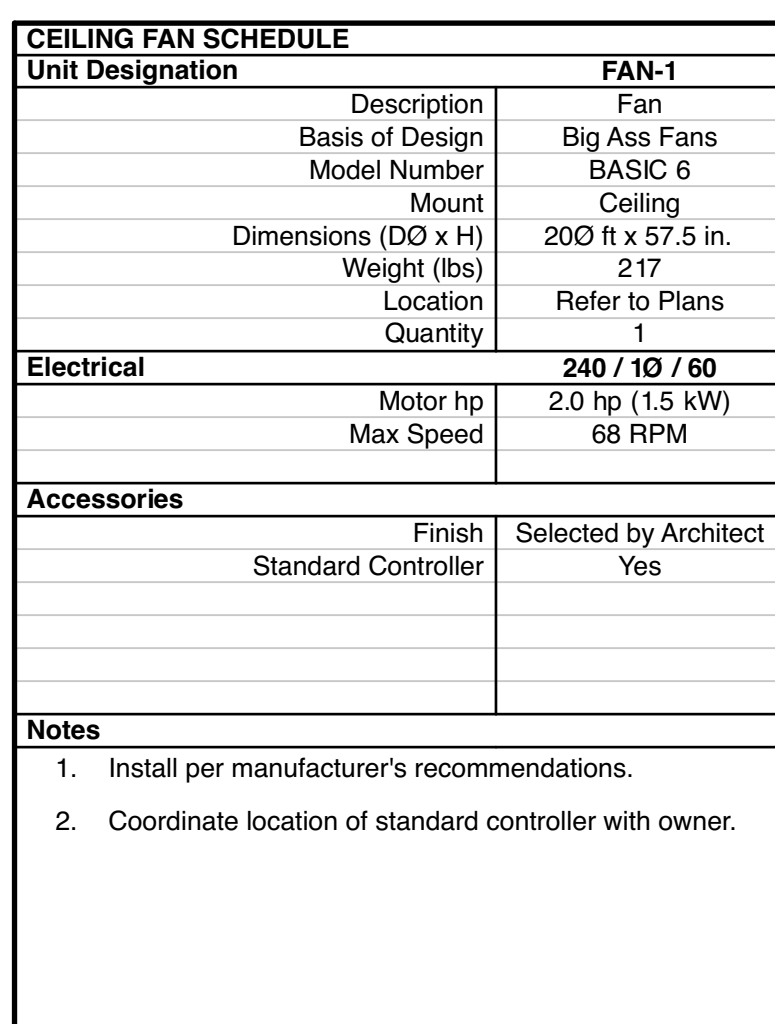
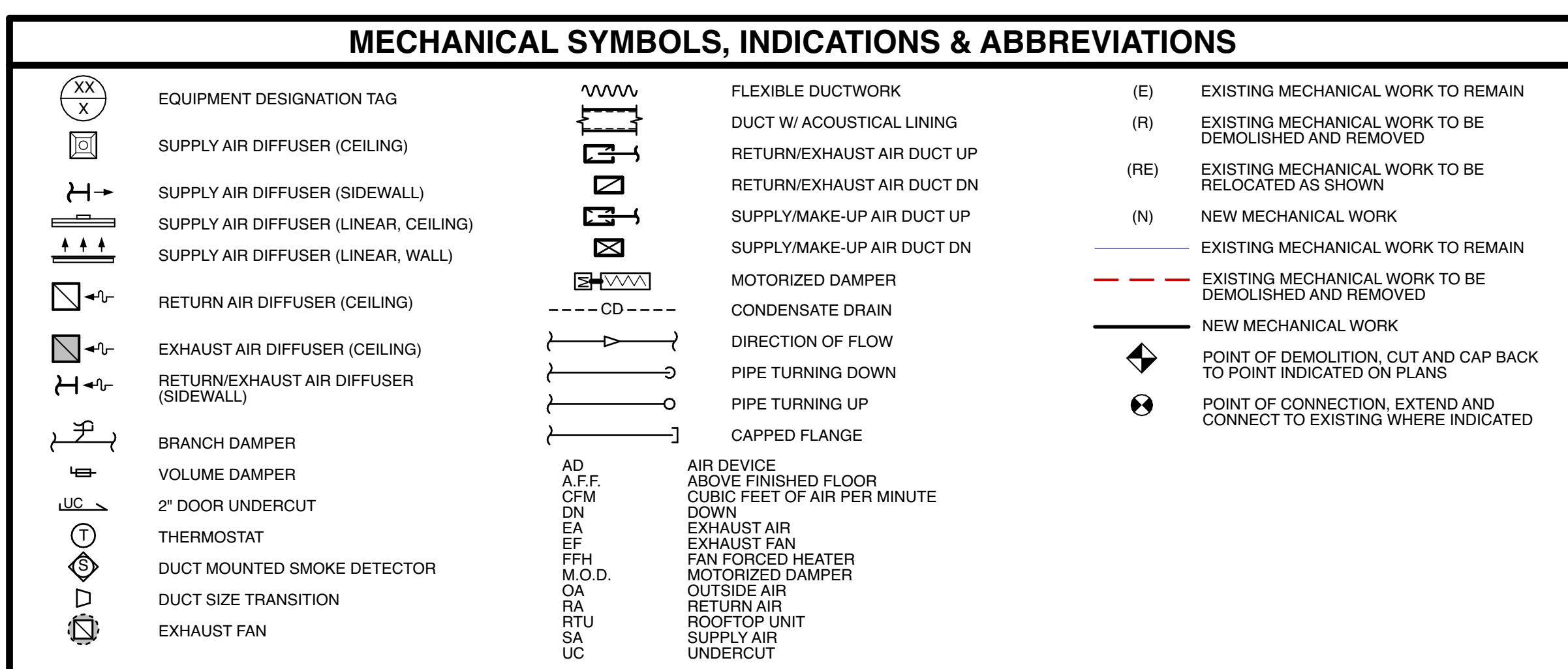
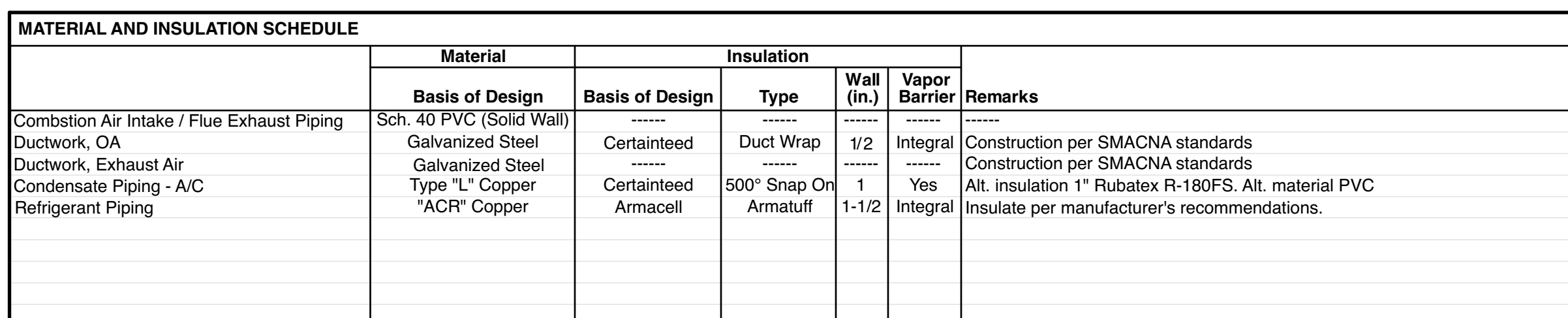
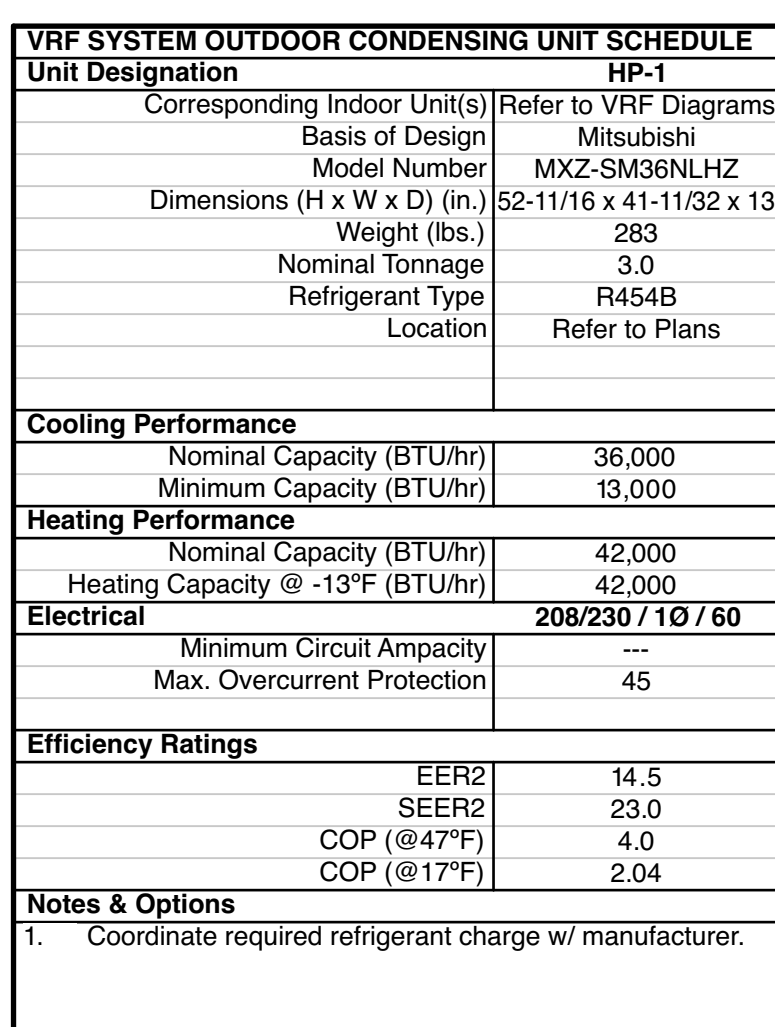
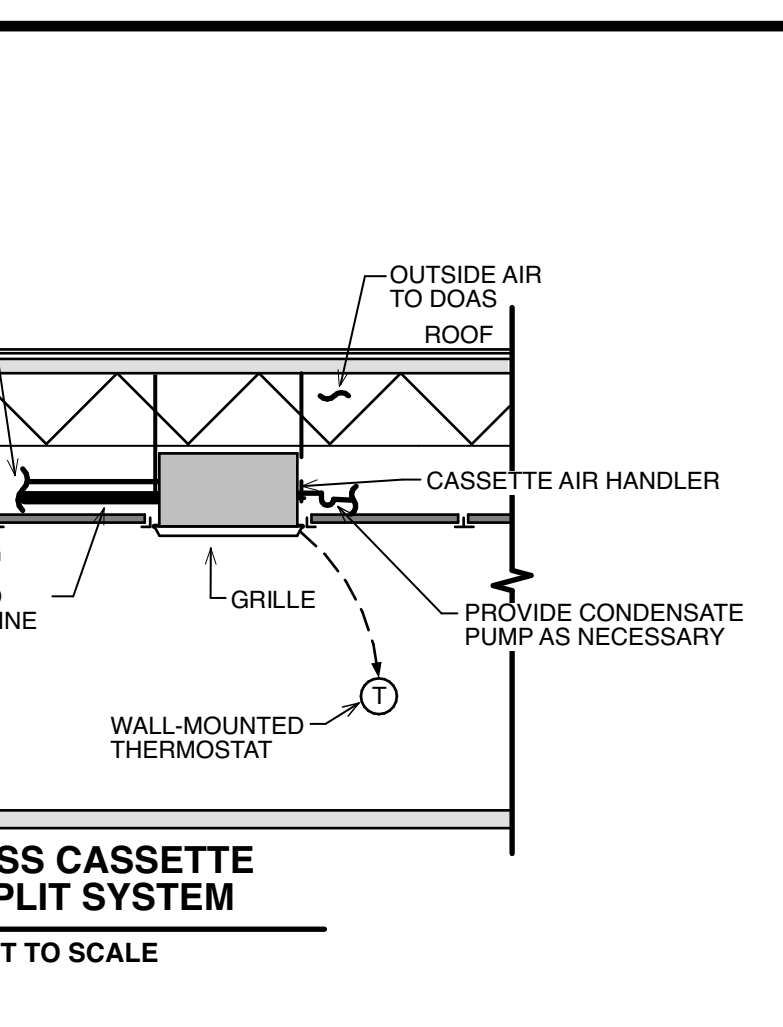
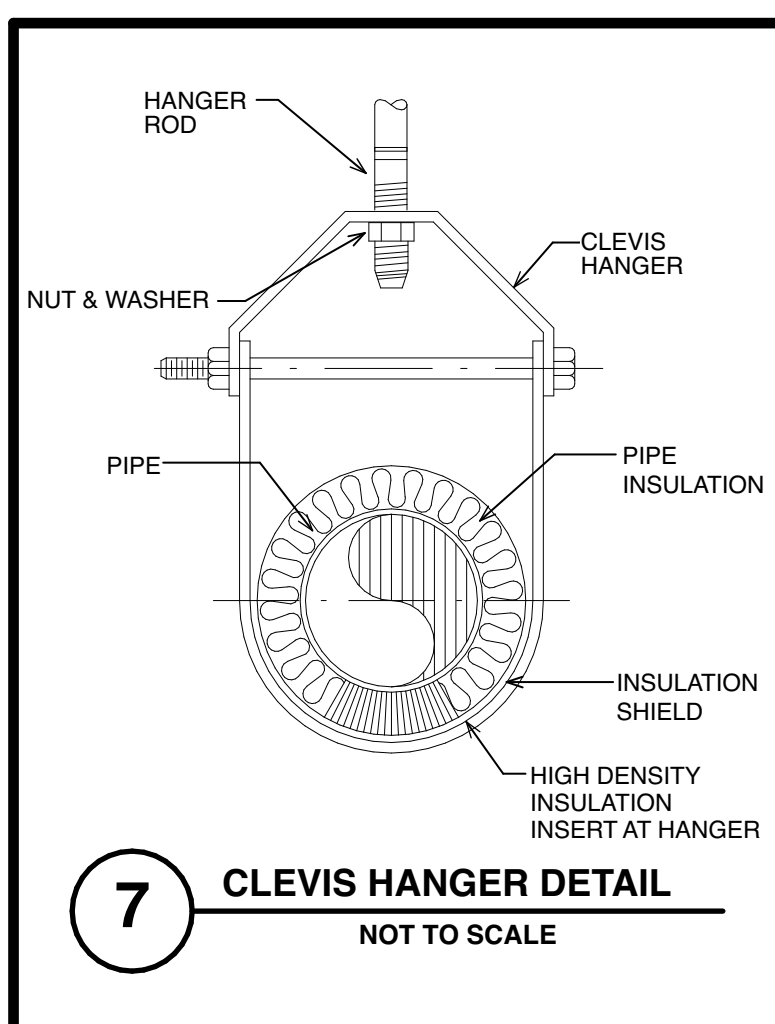
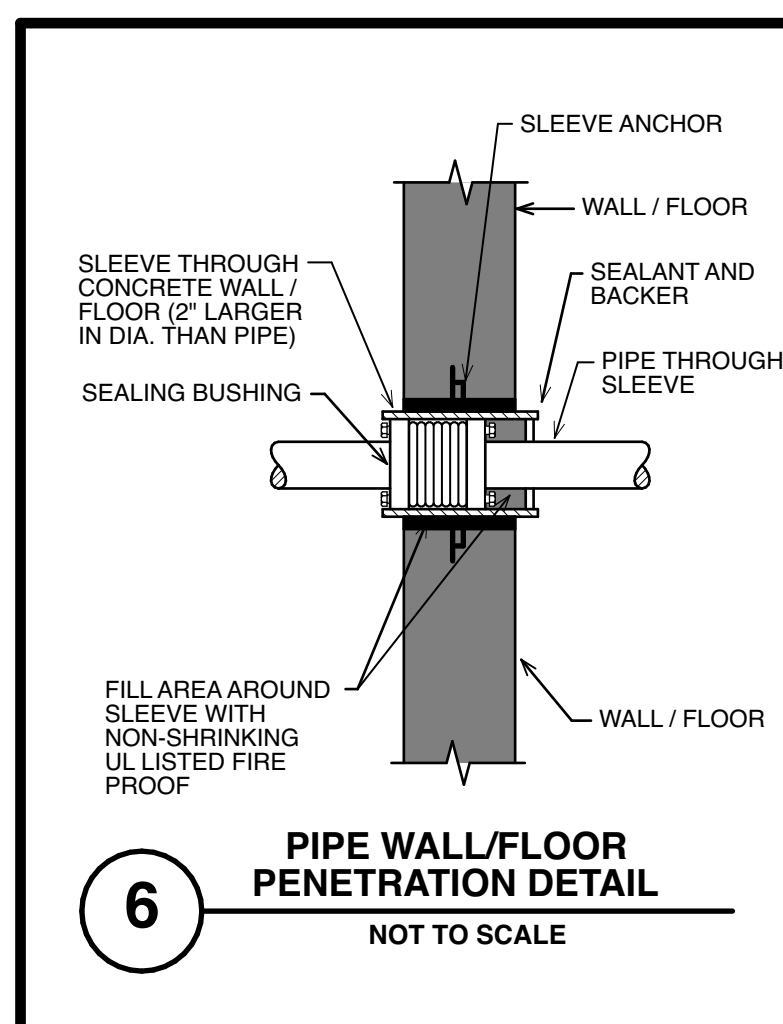
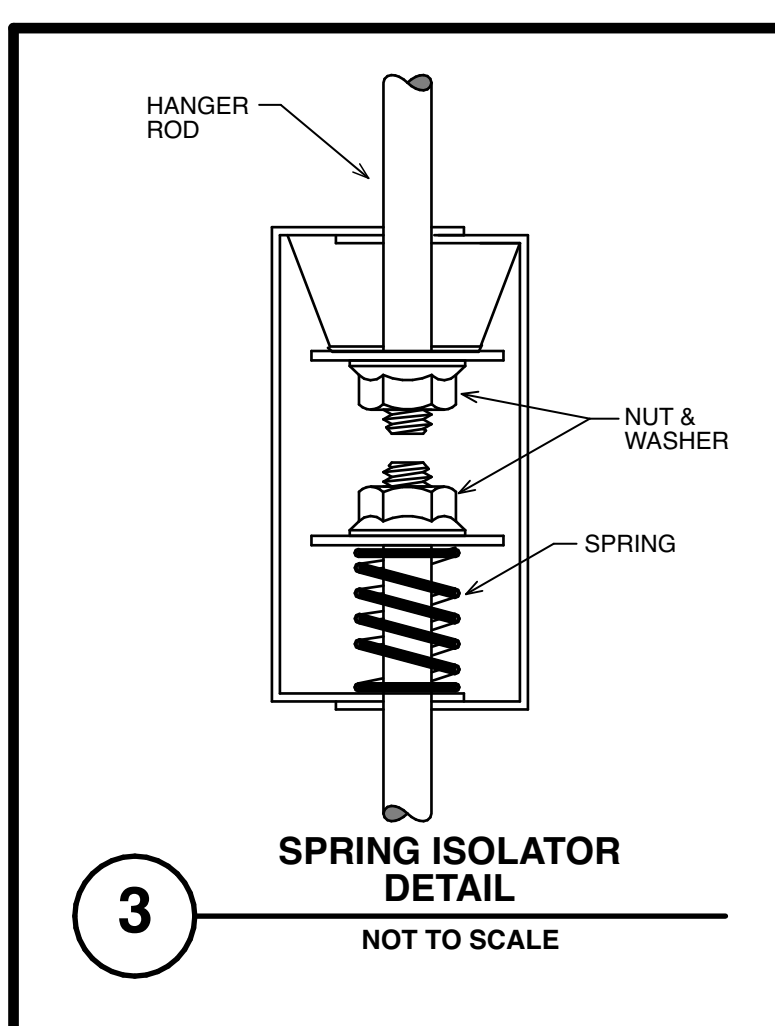
EXISTING CONDITIONS NOTES


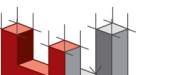
1. ALL THE EXISTING DUCTWORK SIZES, LOCATIONS, EXISTING MECHANICAL EQUIPMENT LOCATIONS, TAGS, EXISTING ARCHITECTURAL PLANS, ETC., HAVE BEEN DOCUMENTED BASED OFF PHOTOGRAPHS AND SURVEY DATA BY HOLSTEIN WHITE, INC. FROM APRIL 4, 2025.
2. ALTHOUGH THE EXISTING CONDITIONS HAVE BEEN MODIFIED PER OBSERVATIONS IN THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM FINAL FIELD VERIFICATION OF ALL OF THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

INDICATED VARIABLE REFRIGERANT FLOW (VRF) SYSTEMS ARE SCHEMATIC AND FOR DIAGRAMMATIC PURPOSES ONLY. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ALL VRF SYSTEM DETAILS (I.E. BRANCH SELECTOR BOX LOCATIONS, REFRIGERANT PIPING SIZES AND LOCATIONS, ETC.) WITH THE EQUIPMENT MANUFACTURER AND SHALL SUBMIT FINAL DETAILS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND COMMENT.

TRANE INDUSTRIES - BASIS OF DESIGN VRF SYSTEM FOR ADDITIONAL PRICING INFORMATION & ALL DESIGN IMPLEMENTATION QUESTIONS PLEASE CONTACT: DEAN.KARAGIANNIS@TRANE.COM

DATE: 05/01/25		ISSUED FOR BID	
No.	DATE	DESCRIPTION	REV'D BY
APPROVAL:		PROJECT:	
 Joseph F. McKernan Jr., Architects & Associates 100 Dabbs Lane, Suite 204, Cherry Hill, New Jersey 08034		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECROQUE BLVD. WOODBINE, NJ 08270	
		TITLE: FIRST FLOOR MECHANICAL PLAN	
 HOLSTEIN WHITE 2800 Harrison Blvd., Suite 500 Bridgeton, NJ 08302 P: 856.332.7770 www.holsteinwhite.com	SCALE: AS NOTED PROJING: 1/200 DATE: 05/01/25 REV'D: DA DRAWN BY: RY CHECKED BY: BAI SW	DRAWING NO: M-1.0	



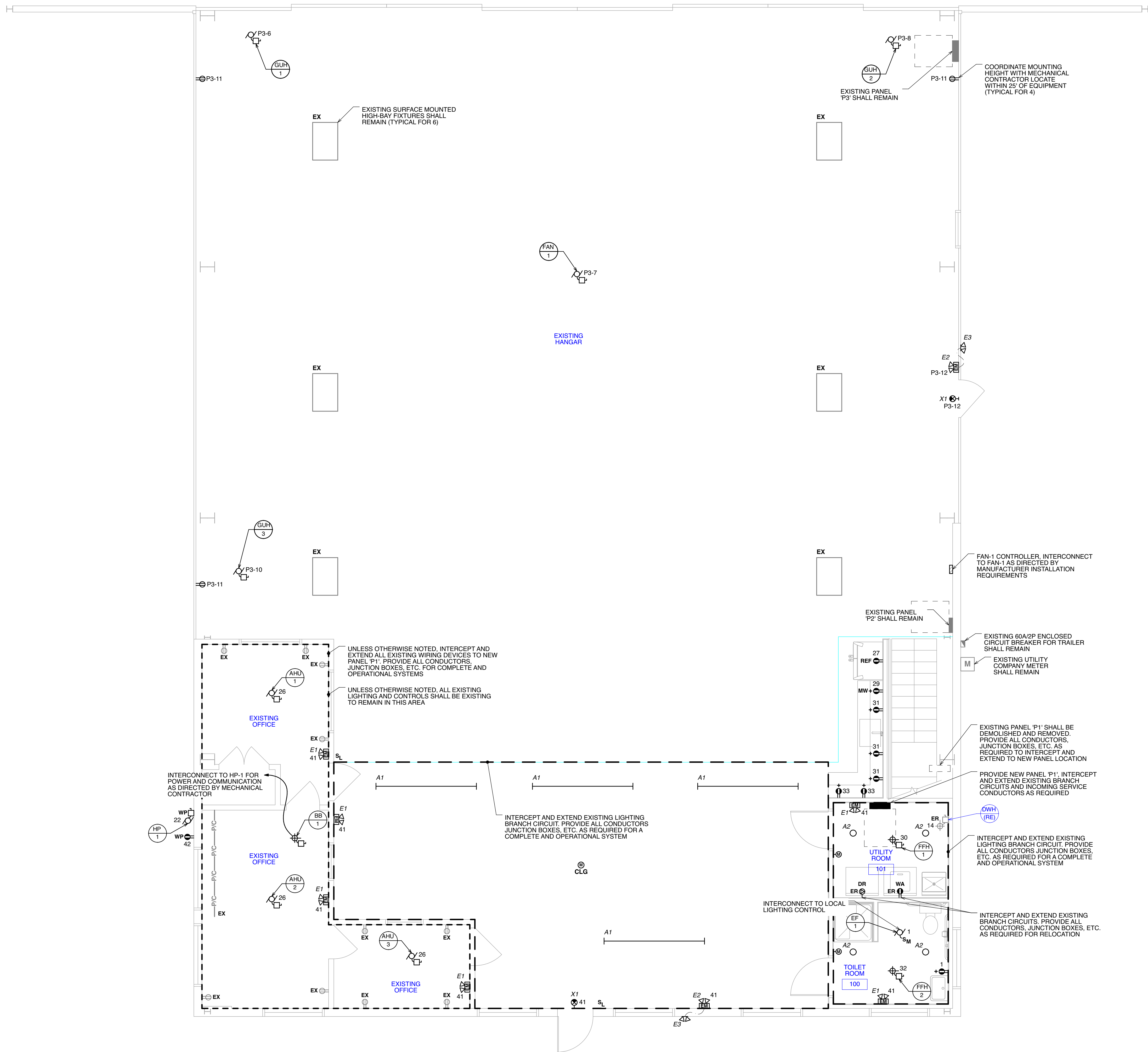
No.		DATE		REV'D BY	
APPROVAL:		PROJECT:		REVISIONS	
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034				RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DEQUOIE BLVD. WOODBINE, NJ 08070	
				TITLE: MECHANICAL SCHEDULES & DETAILS	
 HOLLENSTEIN INSTITUTE 2890 Portman Blvd., Suite 403 Princeton, NJ 08540 P: 609.922.2719 F: 609.922.2710 www.hollensteininstitute.com		SCALE: AS NOTED DRAWING NO: M-2.0 PROJNO.: 1336 DATE: 02/29/12 REV'D: BA DRAWN BY: RW CHECK'D BY: BAI/SW		DEAL: JOSEPH F. MCKERNAN JR., ARCHITECTS & ASSOCIATES 100 DOBBS LANE SUITE 204 CHERRY HILL, NJ 08034 P: 609.922.2719 F: 609.922.2710 www.jfmckernan.com	
		DESIGNING ARCHT. IN CHARGE OF PROJECT ARCHITECT, ENGINEER, INTERIOR DESIGNER MECHANICAL ENGINEER CIVIL/ENGR. SPECIALIST 100 DOBBS LANE SUITE 204 CHERRY HILL, NJ 08034 P: 609.922.2719 F: 609.922.2710 www.jfmckernan.com		MCKERNAN ARCHT. & ASSOCIATES 100 DOBBS LANE SUITE 204 CHERRY HILL, NJ 08034 P: 609.922.2719 F: 609.922.2710 www.jfmckernan.com	

DRAWING NOTES

1. FIELD VERIFY LOCATION OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
2. COORDINATE INSTALLATION OF HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. INSTALL AND WIRE DISCONNECT SWITCHES FURNISHED BY MECHANICAL CONTRACTOR.
3. FIELD VERIFY EXACT LOCATIONS OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
4. UNLESS OTHERWISE NOTED, ALL POWER SHALL BE CIRCUITED TO PANEL P1.
5. UNLESS OTHERWISE NOTED ALL LIGHTING SHALL BE CIRCUITED TO PANEL P1.
6. EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE OF LOCAL LIGHTING CONTROL.
7. COORDINATE ALL LOW VOLTAGE WORK WITH OWNER AND OWNERS LOW VOLTAGE VENDOR. ELECTRICAL CONTRACTORS SHALL FURNISH AND INSTALL ALL BACKBOARDS WITH CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE.
8. UNLESS OTHERWISE NOTED ALL EXTERIOR LIGHTING SHALL BE EXISTING TO REMAIN.

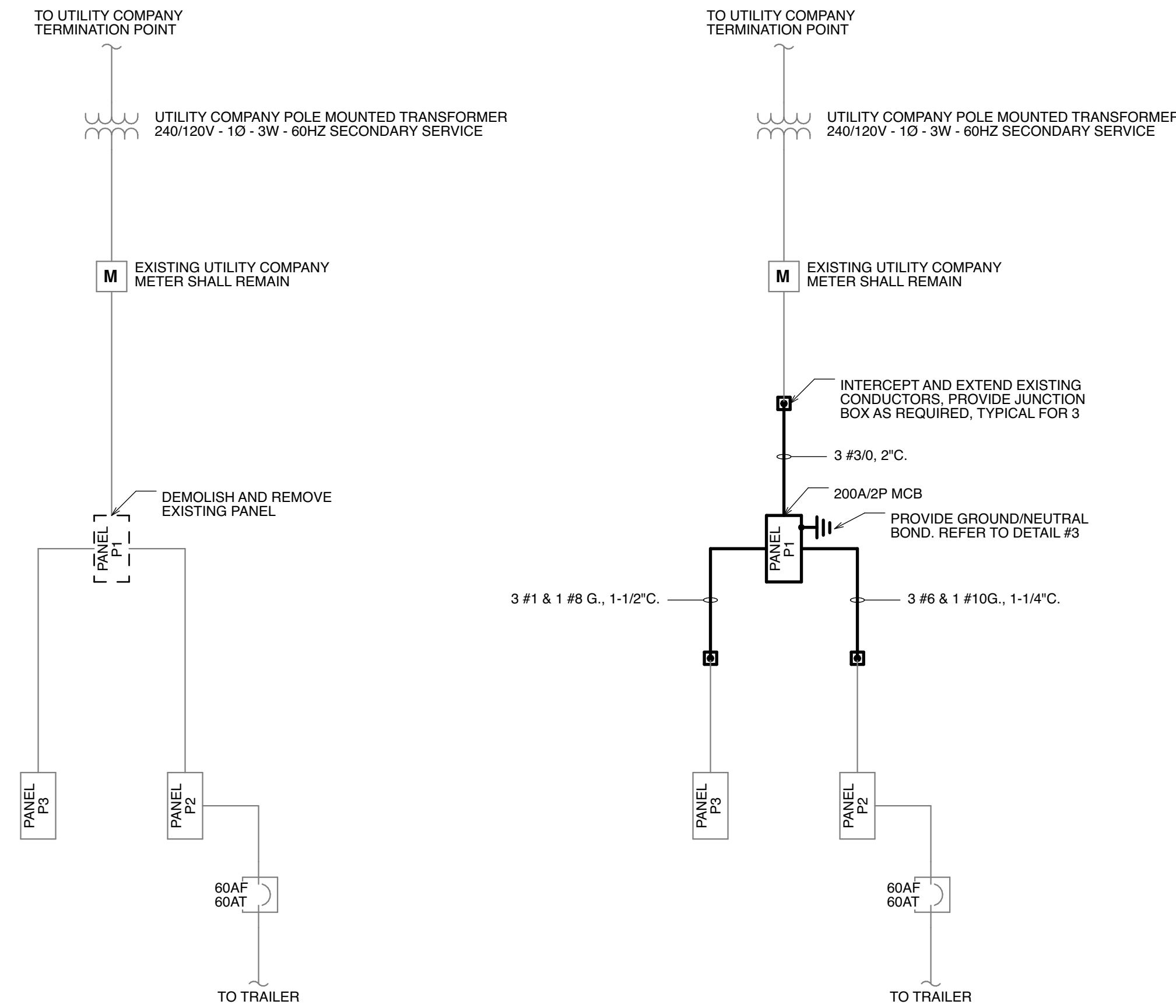
DEMOLITION NOTES

1. WHERE EXISTING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE ALL EXISTING ELECTRICAL WORK THAT INTERFERES WITH OR IS NECESSARY BECAUSE OF NEW CONSTRUCTION AS SPECIFIED, SHOWN OR REQUIRED.
2. PERFORM ALTERATION AND ADDITIONS TO PRESENT ELECTRICAL SYSTEM WITH A MINIMUM INTERRUPTION IN THE OPERATION OF THESE SYSTEMS. OBTAIN WRITTEN CLEARANCE FROM OWNER FOR SUCH INTERRUPTIONS AND SCHEDULE SAME AT WHATEVER TIME SPECIFIED IN WRITING BY OWNER.
3. WHERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS OR TIE INTO SAME TO PROVIDE A COMPLETE COORDINATED ELECTRICAL SYSTEM TO SATISFACTION OF OWNER AND ARCHITECT.
4. ALL EXISTING WORK TO REMAIN, BUT DISTURBED AND DISCONNECTED BECAUSE OF ALTERATIONS AND NEW CONSTRUCTION SHALL BE REPLACED AND PUT IN OPERATING CONDITION UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ARCHITECT.
5. EXISTING BRANCH CIRCUITS NOT SHOWN SHALL REMAIN INTACT TO EXTENT PRACTICABLE, AND SHALL BE EXTENDED AS REQUIRED.
6. DISCONNECT AND REMOVE EXISTING WIRING DEVICES, LIGHTING FIXTURES AND ASSOCIATED BRANCH CIRCUIT WIRING NO LONGER REQUIRED BY NEW CONSTRUCTION.
7. PERFORM ALL WORK NECESSARY TO PERMIT OPERATION OF ALL EXISTING SYSTEMS DURING THE CONSTRUCTION PERIOD. PROVIDE AND MAINTAIN APPLICABLE APPROVED TEMPORARY WIRING TO MEET THIS REQUIREMENT.
8. DEMOLISH AND REMOVE EXISTING ELECTRICAL EQUIPMENT, FEEDERS AND CONDUIT NO LONGER REQUIRED BY NEW CONSTRUCTION BACK TO ELECTRICAL PANEL.
9. ALL CIRCUIT BREAKERS NO LONGER REQUIRED BY NEW CONSTRUCTION SHALL BE MADE SPARE AND SET OPEN POSITION.
10. ELECTRICAL CONTRACTOR SHALL UPDATE PANEL DIRECTORIES AT THE COMPLETION OF WORK.
11. THE CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING HIS PROPOSAL TO VERIFY ACTUAL SITE CONDITIONS AND ANY DISCOVERED DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S ATTENTION PRIOR TO SUBMITTING THEIR BID. THE CONTRACTOR SHALL INCLUDE ALL DEMOLITION WORK EXPOSED AND CONCEALED, WHETHER OR NOT SHOWN ON DRAWINGS, NECESSARY FOR THE EFFECTIVE INSTALLATION AND PERFORMANCE OF NEW SYSTEM. THE OWNER SHALL NOT ACCEPT (NOR THE CONTRACTOR PAID) EXTRA COSTS ASSOCIATED WITH THE DEMOLITION AND/OR TEMPORARY REMOVAL/REINSTALLATION WORK FROM THE CONTRACTOR.



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

DRAWING NO.		ISSUED FOR BID			
No.	DATE	DESCRIPTION	REVISIONS	REV'D BY	
APPROVAL:		PROJECT:			
		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECROIX BLVD. WOODBINE, NJ 08270			
TITLE:		FIRST FLOOR ELECTRICAL PLAN			
Joseph F. McKernan Jr., Architects & Associates 100 Dabbs Lane, Suite 204, Cherry Hill, New Jersey 08034		SCALE: AS NOTED PROJ. NO.: 1336 DATE: 05/08/2025 REV'D: PP DRAWN BY: EP CHECKED BY: PP			
HOLSTEN WHITE 2800 Harrison Blvd., Suite 303 Riverside, NJ 07070 P: 908.227.7777 F: 908.227.7778 www.holstenwhite.com		JEFFREY E. HOLSTEN JULIA M. WHITE ARCHITECTS & ASSOCIATES			

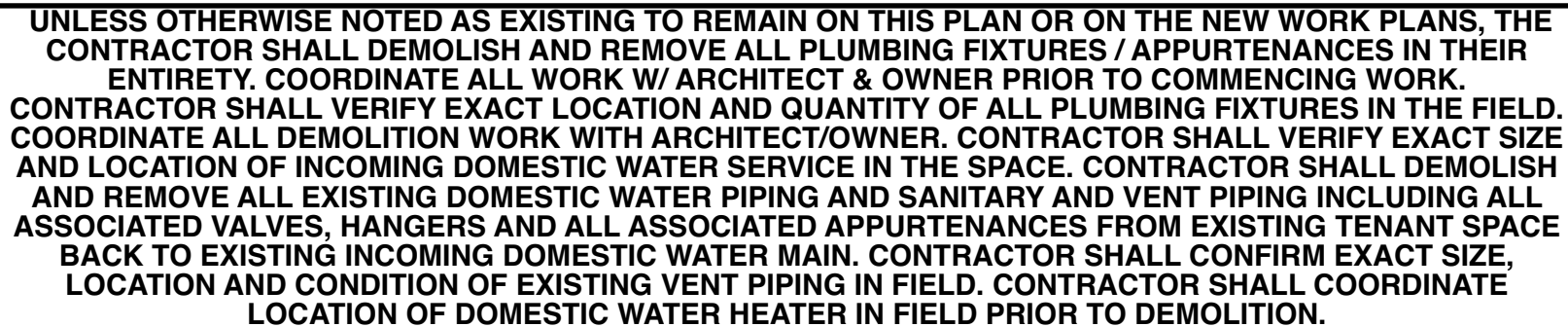



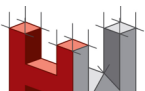
1 DEMOLITION SINGLE LINE DIAGRAM NOT TO SCALE

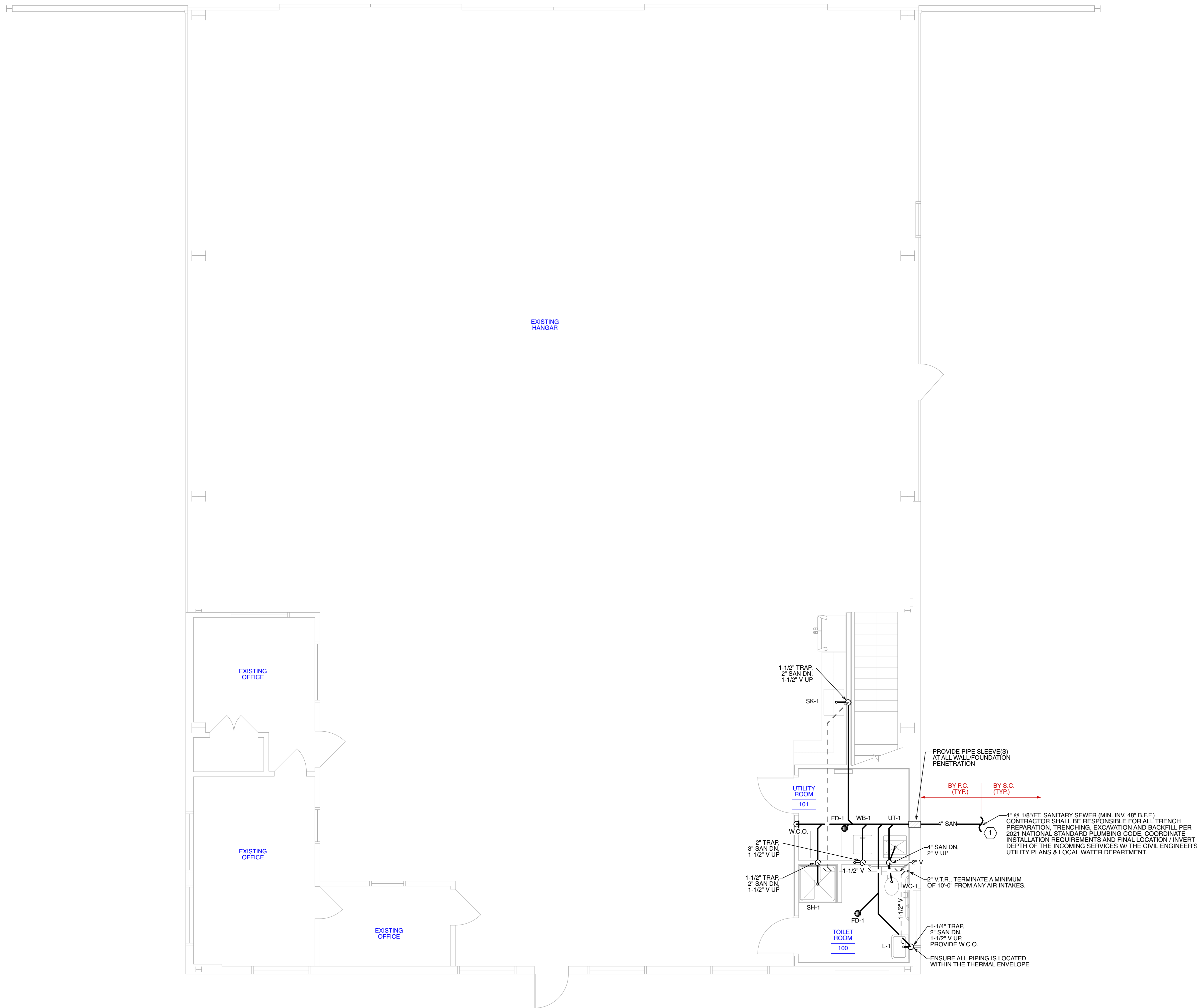
2 NEW WORK SINGLE LINE DIAGRAM NOT TO SCALE

LIGHTING FIXTURE SCHEDULE						
Type	Manufacturer	Catalog No.	No.	Watts	Type	Volts
A1	ILP Lighting	VS8-10L/11L/12L-UCCTS-FRL	89	LED 3500K	120	Surface
A2	Elite Lighting	HH6-LED-1500L-DIM10-MVOLT-35K-HH6-6501	15	LED 3500K	120	Surface
E1	Eventite	TEBL3W	2	3 LED	120/9.6VDC	Surface
E2	Eventite	TEBL5W	2	3 LED	120/9.6VDC	Surface
E3	Eventite	PRWLED2-MV	2	1 LED	9.6VDC	Exterior Surface
X1	Eventite	TLX-EM-RU-W		LED	120	As Indicated
Notes:						
1. In addition to those indicated above, refer to Architectural drawings and provide all fixtures specified.						
2. All fixtures shall be provided with lamping.						
3. Confirm final fixture options and color selection with Architect prior to purchase.						
4. Refer to specifications for detailed requirements for construction, handling, ballasts, lamps, etc.						
5. Coordinate fixture location and mounting requirements with Architectural drawings and details.						
6. Refer to Architectural reflected ceiling plans for ceiling types and conditions affecting mounting and installation of lighting fixtures.						
7. Coordinate exact fixture color temperature with owner and architect prior to purchase.						

NEW PANEL P1				200 A MCB		42 POLE		240/120V - 10 - 3W	
Cir. No.	Cir. Bkr.	Wire Size	Description	Load - KVA	Description	Wire Size	Cir. No.	Cir. Bkr.	No.
1	20/1	#12	Bath Fix	-	Panel P2	-	46	60/2	2
3	20/1	#12	Office	-	Existing Load	-	-	-	-
5	20/1	#12	Office	-	Panel P3	#1 100/2	10	-	-
9	20/1	#12	Light Bar Overhead	-	H.W.	#8 40/2	14	-	-
11	20/1	#12	P-Exit	-	Dyser	#10 30/2	18	-	-
13	20/1	#12	Food Lts	-	HP-1	-	45/2	22	-
15	20/1	#12	Office	-	AHU-1, 2 & 3	#12 15/2	26	-	-
17	20/1	#12	Library Room	-	FFH-1	#12 20/1	30	-	-
19	20/1	#12	West Side Outlets	-	FFH-2	#12 20/1	32	-	-
21	20/1	#12	Closest Outlets	-	FFH-3	#12 20/1	34	-	-
23	20/1	#12	Closest Outlets	-	FFH-4	#12 20/1	36	-	-
25	20/1	#12	Refrigerator	1.0	FFH-5	#12 20/1	38	-	-
27	20/1	#12	Refrigerator	1.5	FFH-6	#12 20/1	40	-	-
29	20/1	#12	Kitchen	1.5	FFH-7	#12 20/1	42	-	-
31	20/1	#12	Kitchen	1.5	FFH-8	#12 20/1	44	-	-
33	20/1	#12	Outlet Fix A	-	FFH-9	#12 20/1	46	-	-
35	20/1	#12	Outlet Fix B	-	FFH-10	#12 20/1	48	-	-
37	20/1	#12	Outlet Strip D	-	FFH-11	#12 20/1	50	-	-
41	20/1	#12	Emergency & Exit Lighting	0.1	FFH-12	#12 20/1	52	-	-
Total				3.1	FFH-13	#12 20/1	54	-	-
Phase (KVA)				Load Summary by Type		Options and Accessories - (X) Indicates Selection			
A	10.9	Connected Receptacles	KVA	Feed Through Lugs		Surface		Recessed	
B	0.9	Connected Main Lugs	KVA	Split Bus		Double Panel		Insulated	
Total	20.8	Connected Motor	KVA	Ground Bus		Top		Bottom	
				Connected Heating	KVA	Controlled			
				Connected Air Conditioning	KVA				
				Connected Kitchen	KVA				
				Connected Miscellaneous	KVA				
				Total	20.8				
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05/06/25		ISSUED FOR BID		
No.	DATE	DESCRIPTION		REV'D BY
APPROVAL:		PROJECT:		
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR 5 675 HENRY DECADQUE BLVD. WOODBINE, NJ 08070		
		TITLE:		
		FIRST FLOOR DEMOLITION PLUMBING PLAN		
 HOLSTEN WHITE 2800 Harrison Blvd., Suite 505 Paramus, NY 10765 P: 212.263.2271 www.holstenwhite.com		SEAL:	SCALE: AS NOTED PROLONGED: 1/32"=1'-0" DATE: 05/06/25 REV'D: RA DRAWN BY: RW CHECKED: BAI SW	
3500 T & WHITE NEW JERSEY 07033 201-261-0000 www.3500t.com		PERMISSON ACCT. BY NOTED CONTRACTOR. NOTED BY THE PROJECT ARCHITECT. SEE PERMITTING AGENCY FOR 500 NEW JERSEY 07102		
3500 T & WHITE NEW JERSEY 07033 201-261-0000 www.3500t.com		3500 T & WHITE NEW JERSEY 07033 201-261-0000 www.3500t.com		



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

SHEET NOTES

- CONTRACTOR SHALL INSPECT AND VIDEOSCOPE EXISTING SANITARY MAIN TO VERIFY THE FOLLOWING: LOCATION, DEPTH, DIRECTION OF FLOW AND CONDITION OF THE EXISTING SEWER LATERAL. CONTRACTOR SHALL SUBMIT A COPY OF THE VIDEOSCOPE. IF THERE ARE REPAIRS REQUIRED TO REUSE EXISTING SANITARY LATERAL, A PROPOSED COST BREAKDOWN SHALL BE SUBMITTED TO THE OWNER AND ARCHITECT FOR REVIEW.
- CONTRACTOR SHALL EXTEND AND CONNECT NEW SANITARY PIPING TO NEAREST APPROPRIATELY SIZED EXISTING SANITARY MAIN. CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION IN FIELD.

DRAWING NOTES



- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF ALL THE FURNITURE, PLUMBING FIXTURES, AND EQUIPMENT.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND PIPING WITH THE LOCATION OF ALL FOOTERS AND EXISTING UTILITY PIPING.
- CONTRACTOR SHALL VERIFY THE EXACT SIZE AND LOCATION OF EXISTING SANITARY AND DOMESTIC WATER PIPING IN THE FIELD. COORDINATE THE INSTALLATION OF THE NEW PIPING WITH THE EXISTING LOCATION.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE NEW PIPING WITH THE LOCATION OF THE PIPING, DUCT WORK, EQUIPMENT, ARCHITECTURAL PLANS, AND STRUCTURAL ELEMENTS IN THE FIELD.
- ALL PIPING CONNECTIONS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL VERIFY FINAL CONNECTION POINTS IN FIELD.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL ROOF AND EXTERIOR WALL PENETRATIONS IN THE FIELD WITH LANDLORD PRIOR TO ROUGHING-IN.
- CONTRACTOR SHALL COORDINATE ALL DOMESTIC WATER PIPING WITHIN THERMAL ENVELOPE OF THE BUILDING TO PREVENT FREEZING.
- CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH EXISTING ROOFING. CONTRACTOR AS TO NOT VOID ROOF WARRANTY.

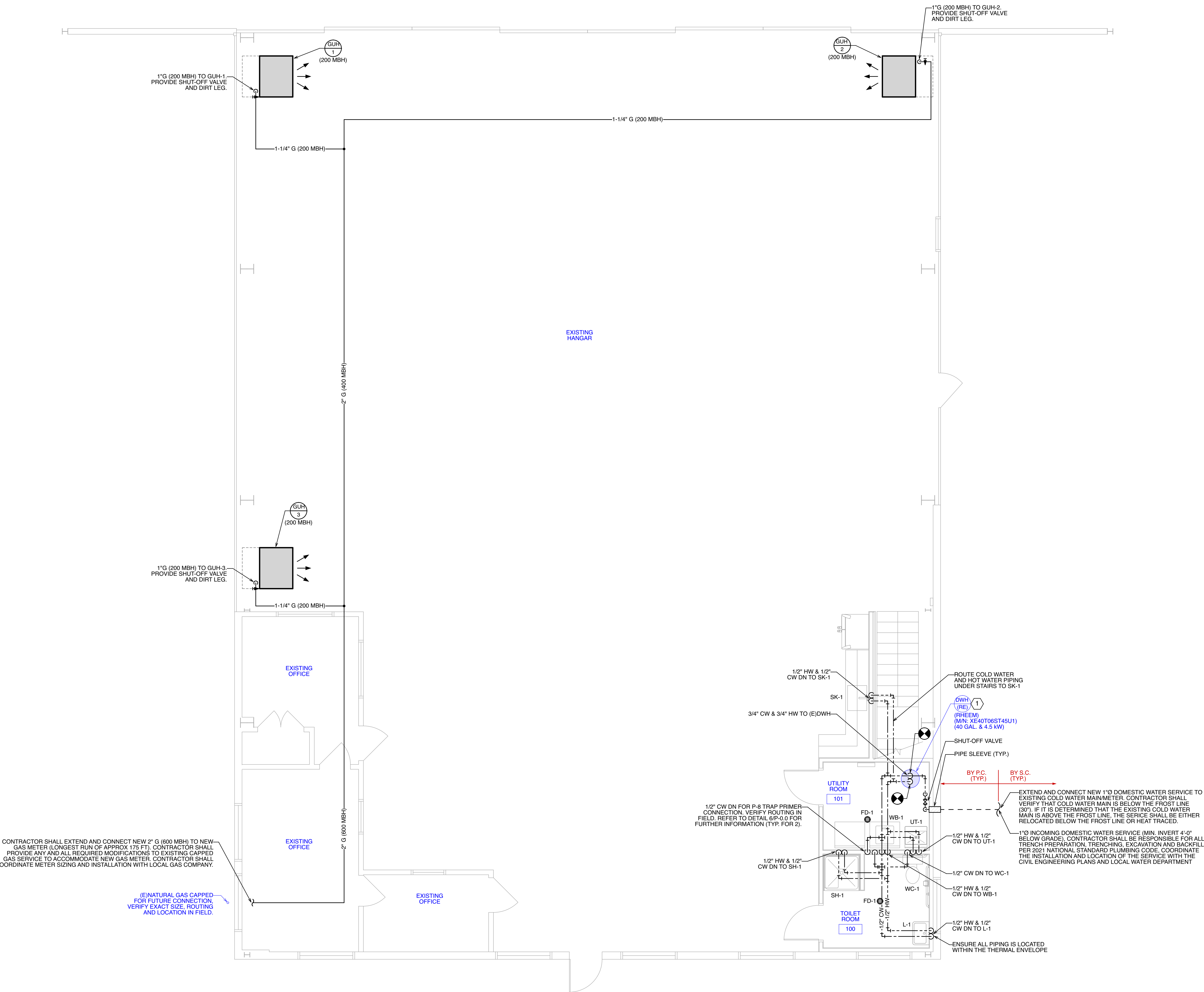
EXISTING CONDITIONS NOTE

- ALL THE EXISTING PIPE SIZES AND LOCATIONS, THE PLUMBING FIXTURE LOCATIONS AND TAGS, THE EXISTING ARCHITECTURAL FLOOR PLANS, ETC., HAVE BEEN DOCUMENTED BASED OFF PHOTOGRAPHS AND SURVEY DATA BY HOLSTEIN WHITE, INC. FROM APRIL 4, 2025.
- ALTHOUGH THE EXISTING CONDITIONS DOCUMENTED ON THESE PLANS HAVE BEEN MODIFIED PER OBSERVATIONS IN THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM FINAL FIELD VERIFICATION OF ALL OF THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK TO CONFIRM ALL EXISTING CONDITIONS AND LOCATIONS OF ALL PLUMBING FIXTURES, VALVES, PIPING, ETC.

DRAWING SYMBOLS

- (E) EXISTING PLUMBING WORK TO REMAIN
- (R) EXISTING PLUMBING WORK TO BE DEMOLISHED AND REMOVED
- EXISTING PLUMBING WORK TO BE DEMOLISHED AND REMOVED
- NEW SANITARY WORK
- NEW VENTING WORK
- NEW COLD WATER PLUMBING WORK
- NEW HOT WATER PLUMBING WORK
- NEW NATURAL GAS WORK
- POINT OF CONNECTION TO EXISTING
- POINT OF DEMOLITION, CUT AND CAP

		ISSUED FOR BID							
No.	DATE	DESCRIPTION			REV'D BY				
		REVISIONS							
APPROVAL:		PROJECT:							
		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECROIX BLVD. WOODBINE, NJ 08270							
		TITLE:							
Joseph F. McKernan Jr., Architects & Associates 100 Dabbs Lane Suite 204 Cherry Hill, New Jersey 08034		FIRST FLOOR SANITARY PLAN							
	SCALE: AS NOTED	PROJ. NO.: 1336	DRAWING NO.: P-1.0	DATE: 05/09/25					
	SCALE: AS NOTED	PROJ. NO.: 1336	DRAWING NO.: P-1.0	DATE: 05/09/25					
HOLSTEIN WHITE 2800 Harrison Blvd., Suite 303 Trenton, NJ 08611 P: 609.222.7777 F: 609.222.7778 www.holsteinwhite.com		SEAL: ROBERT A. WHITE LICENSE NO. 35520-0001							
		DRAWING NO.: P-1.0							



1 FIRST FLOOR DOMESTIC WATER PLAN
SCALE: 1/4" = 1' - 0"

SHEET NOTES

- CONTRACTOR SHALL REINSTALL EXISTING DOMESTIC WATER HEATER IN INDICATED NEW LOCATION WHEN NEW CONSTRUCTION IS COMPLETE (REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION). CONTRACTOR SHALL TEST AND INSPECT RELOCATED DOMESTIC WATER HEATER TO ENSURE THAT IT IS FULLY FUNCTIONAL.

DRAWING NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF ALL THE FURNITURE, PLUMBING FIXTURES, AND EQUIPMENT.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND PIPING WITH THE LOCATION OF ALL FOOTERS AND EXISTING UTILITY PIPING.
- CONTRACTOR SHALL VERIFY THE EXACT SIZE AND LOCATION OF EXISTING SANITARY AND DOMESTIC WATER PIPING IN THE FIELD. COORDINATE THE INSTALLATION OF THE NEW PIPING WITH THE EXISTING LOCATION.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE NEW PIPING WITH THE LOCATION OF THE PIPING, DUCT WORK, EQUIPMENT, ARCHITECTURAL PLANS, AND STRUCTURAL ELEMENTS IN THE FIELD.
- ALL PIPING CONNECTIONS ARE SHOWN. DIAGRAMMATICALLY CONTRACTOR SHALL VERIFY FINAL CONNECTION POINTS IN FIELD.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL ROOF AND EXTERIOR WALL PENETRATIONS IN THE FIELD WITH LANDLORD PRIOR TO ROUGHING-IN.
- CONTRACTOR SHALL COORDINATE ALL DOMESTIC WATER PIPING WITHIN THERMAL ENVELOPE OF THE BUILDING TO PREVENT FREEZING.
- CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH EXISTING ROOFING. CONTRACTOR AS TO NOT VOID ROOF WARRANTY.

EXISTING CONDITIONS NOTE

- ALL THE EXISTING PIPE SIZES AND LOCATIONS, THE PLUMBING FIXTURE LOCATIONS AND TAGS, THE EXISTING ARCHITECTURAL FLOOR PLANS, ETC., HAVE BEEN DOCUMENTED BASED OFF PHOTOGRAPHS AND SURVEY DATA BY HOLSTEIN WHITE, INC. FROM APRIL 4, 2025.
- ALTHOUGH THE EXISTING CONDITIONS DOCUMENTED ON THESE PLANS HAVE BEEN MODIFIED PER OBSERVATIONS IN THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM FINAL FIELD VERIFICATION OF ALL OF THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK TO CONFIRM ALL EXISTING CONDITIONS AND LOCATIONS OF ALL PLUMBING FIXTURES, VALVES, PIPING, ETC.

DRAWING SYMBOLS

- (E) EXISTING PLUMBING WORK TO REMAIN
- (R) EXISTING PLUMBING WORK TO BE DEMOLISHED AND REMOVED
- EXISTING PLUMBING WORK TO BE DEMOLISHED AND REMOVED
- NEW SANITARY WORK
- NEW VENTING WORK
- NEW COLD WATER PLUMBING WORK
- NEW HOT WATER PLUMBING WORK
- NEW NATURAL GAS WORK
- ⊙ POINT OF CONNECTION TO EXISTING
- ⊙ POINT OF DEMOLITION, CUT AND CAP

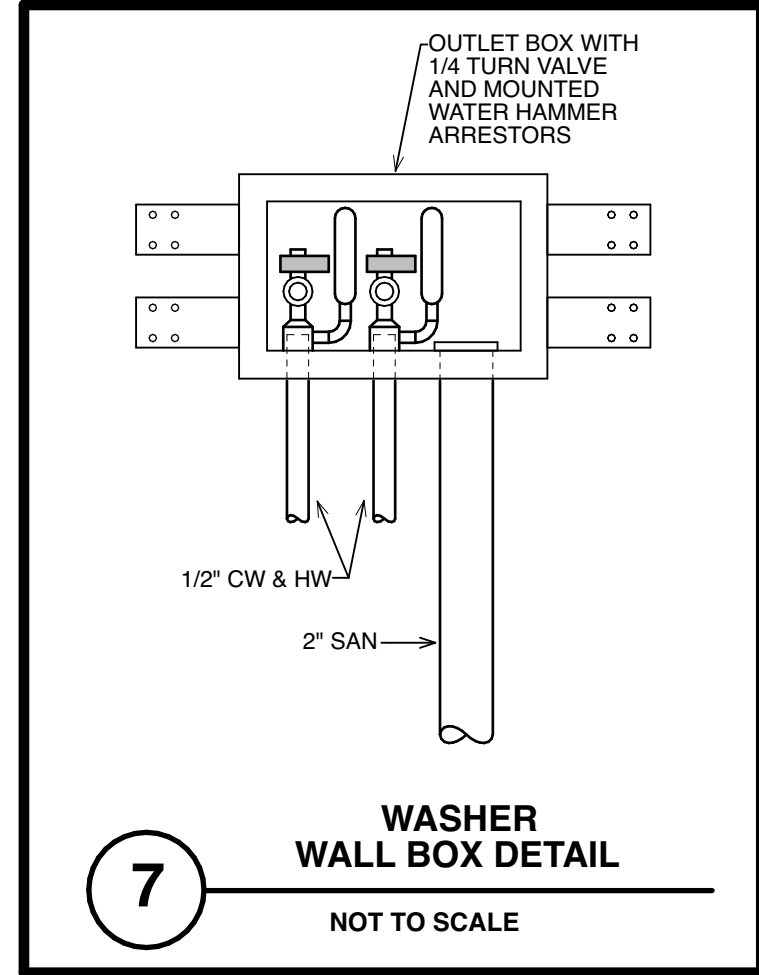
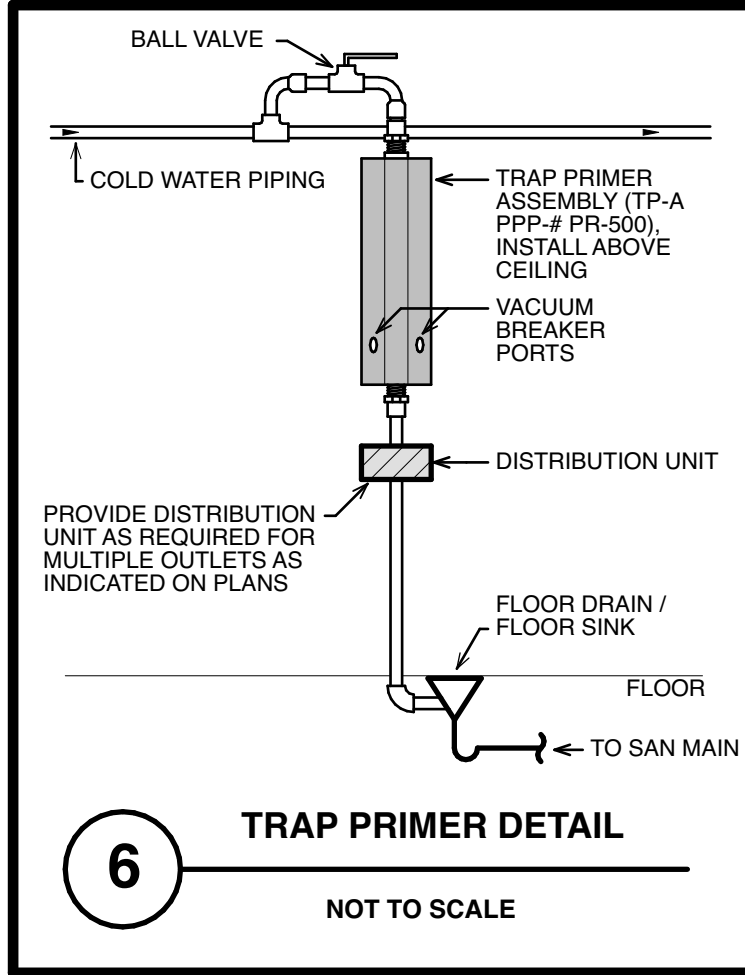
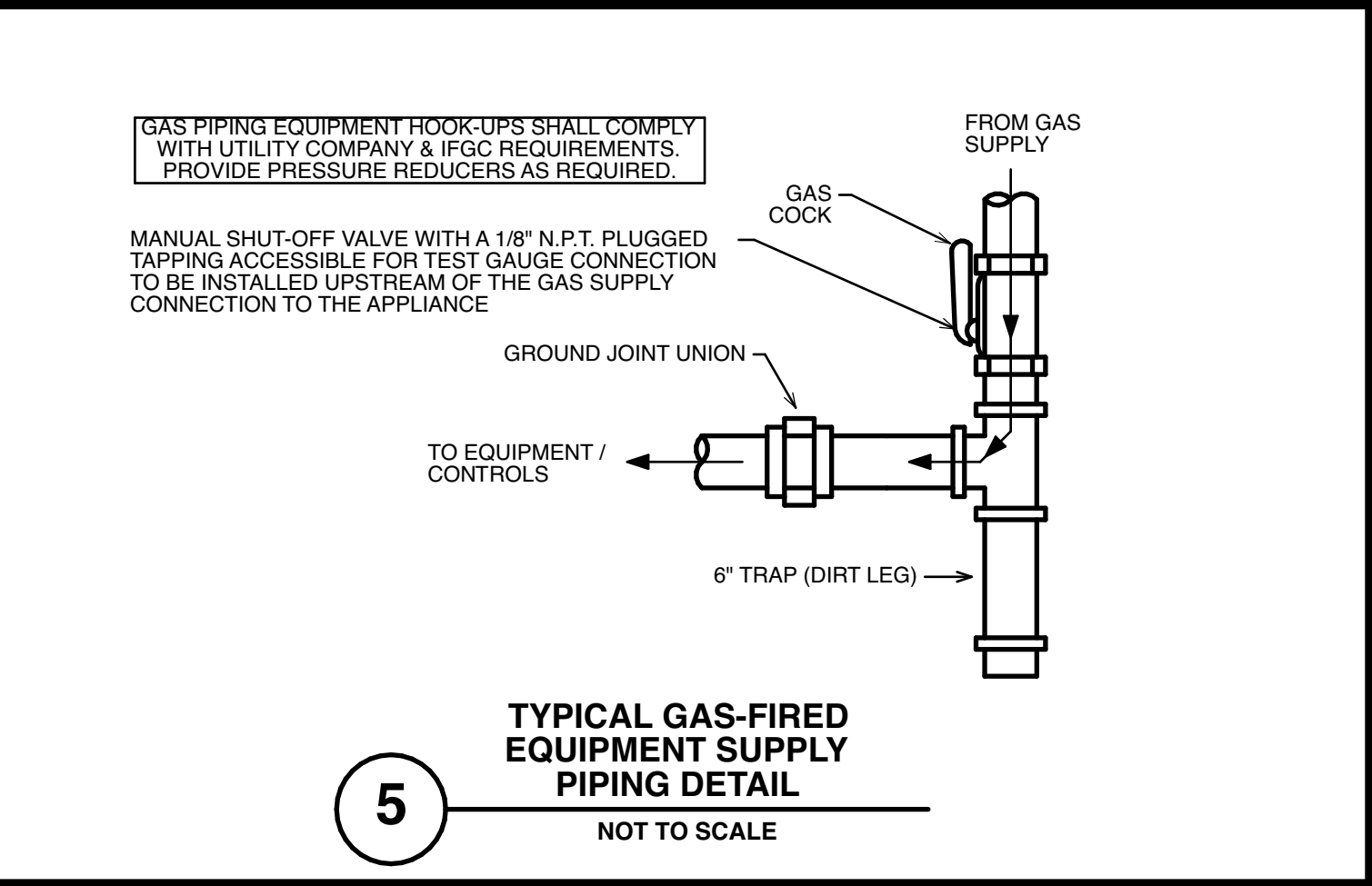
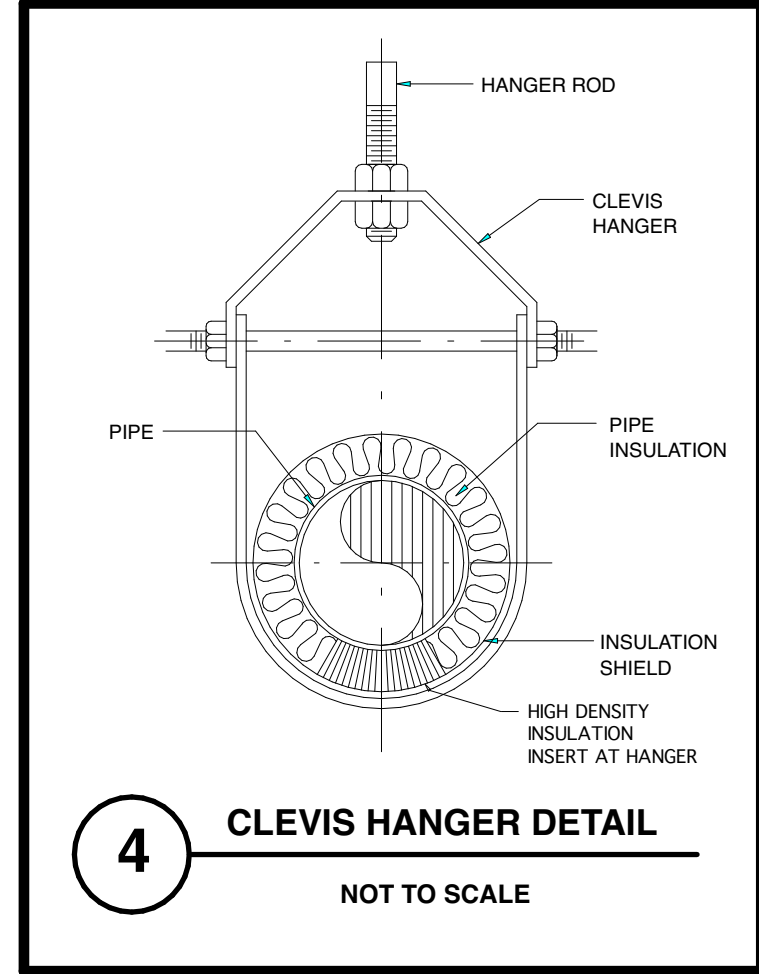
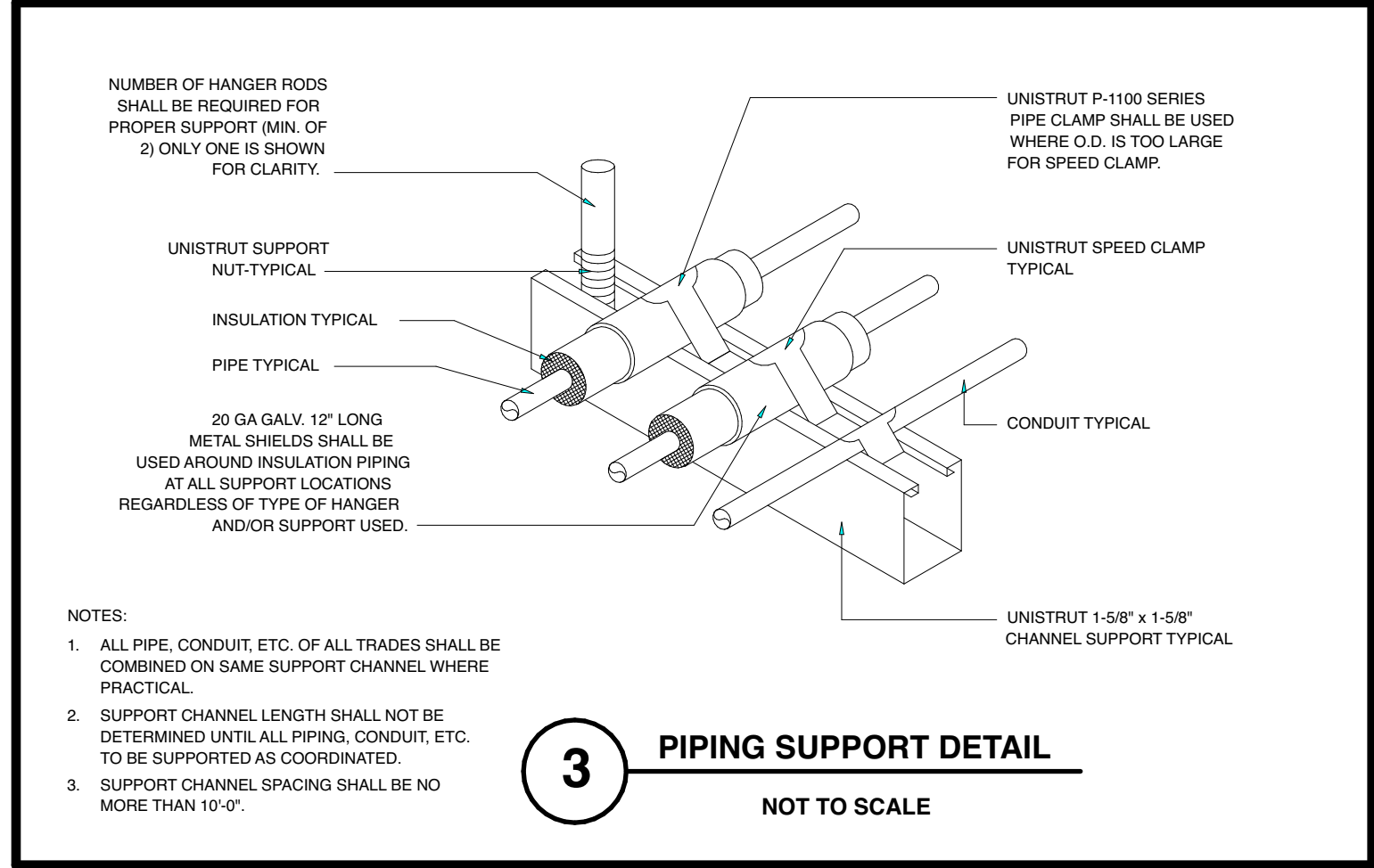
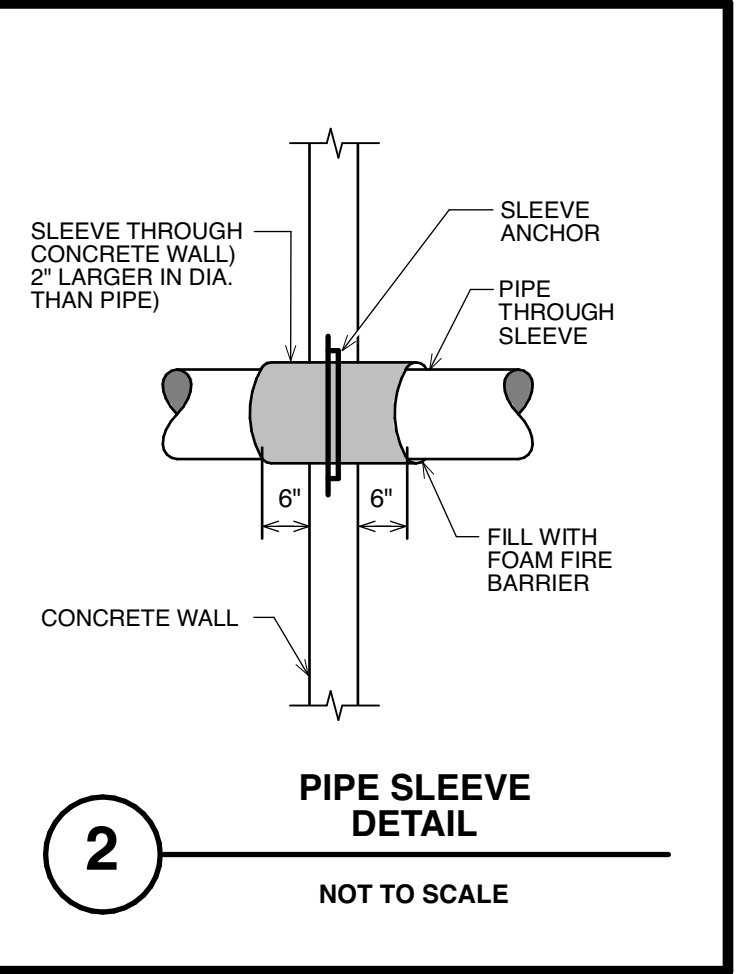
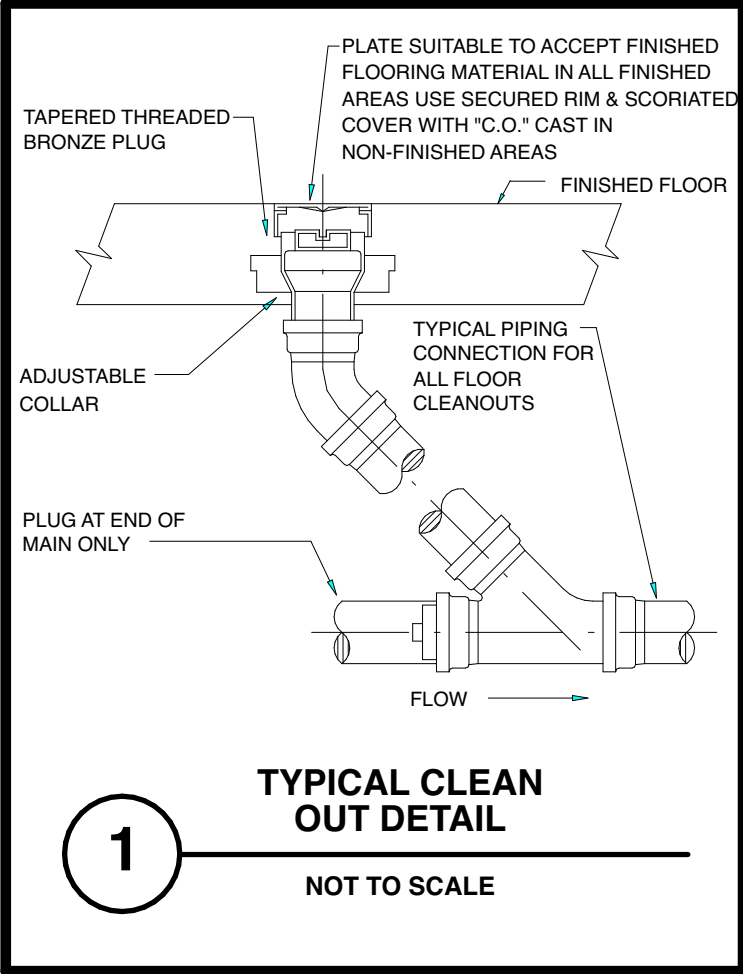
GAS PIPING NOTES

- ALL GAS PIPING SHALL BE INSTALLED PER THE REQUIREMENTS OF IFGC 2021.
- ALL EXPOSED EXISTING AND NEW GAS PIPING & FITTING SHALL BE COATED OR WRAPPED WITH A CORROSION-RESISTANT MATERIAL.
- 2" GAS (600 MBH) SIZED FOR LONGEST RUN OF 175 FT FROM METER PER IFGC 2021, TABLE 402.4(1), LESS THAN 2 PSI, 0.5 IN. W.C. PRESSURE DROP, & 0.60 SPECIFIC GRAVITY.

No.		DATE	DESCRIPTION	REV'D BY
APPROVAL:		PROJECT:		
Joseph F. McKernan Jr., Architects & Associates 100 Dabbs Lane, Suite 204, Cherry Hill, New Jersey 08034		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DECROIX BLVD. WOODBINE, NJ 08270 TITLE: FIRST FLOOR DOMESTIC WATER PLAN		
SCALE: 1/4" = 1' - 0"		DRAWING NO: P-1.1		
DATE: 05/09/2025		DRAWN BY: RY		
REV'D: SA		CHECKED BY: SA		
PROJECT NO: 24000		PROJECT NO: 24000		

PLUMBING FIXTURE SCHEDULE											
NOTE: ALL PLUMBING FIXTURES AND FAUCETS SHALL BE PROVIDED IN CUSTOM COLORS AND FINISHES. COORDINATE COLOR & FIXTURE SELECTION WITH THE ARCHITECT AND OWNER.											
Tag	Fixture Type	Mount	Fixture Mfr./Model #	Domestic Water CWS	Water HWS	Sanitary Drain	Trap	Faucet Mfr./Model #	Flush/Valve Mfr./Model #	Seat Mfr./Model #	Remarks
WC-1	Water Closet ADA	Floor	American Standard 2467.016	1/2"	---	4"	Integral	---	---	American Standard 5500A00B	Floor-mounted, vitreous china, power assist, coupled tank type with elongated siphon action reverse trap bowl, white solid plastic open front seat and china bolt covers, 1.6 gpf. Coordinate side of handle with approach side.
L-1	Lavatory ADA	Wall-Hung	American Standard 6555.012	1/2"	1/2"	1-1/4"	1-1/4"	Elkay LK422L4	---	---	Wall-hung, handicap lavatory, vitreous china with front over flow. P-trap, drain, trim, stops, offset tailpiece with metal grid strainer, J. R. Smith lavatory support with concealed arms Ø700, single lever handle faucet, hot limit safety stop (adjust during installation), & Trieborg LavGuard to cover all exposed piping located under the lavatory. Provide thermostatic mixing valve set at 110°F.
SK-1	Sink	Countertop	Elkay LRAID 91555	1/2"	1/2"	1-1/2"	1-1/2"	American Standard 7502.175	---	---	Countertop, single bowl, stainless steel with lustrous finish, rear center drain placement. P-trap, drain, trim, stops, wrist shade handles, swivel gooseneck spout, and metal grid strainer. Provide thermostatic mixing valve set at 110°F.
WB-1	Wall Box	Wall	Guy Gray WB200HA	1/2"	1/2"	2"	2"	---	---	---	Provide Backflow Preventor on supply lines. Water Tight All Welded Construction & Water Hammer Arrestors.
UT-1	Sink	Floor	Mustee 14CP	1/2"	1/2"	1-1/2"	1-1/2"	Included	---	---	One piece molded construction. Co-Polyure resin, 4" center set. 6" swing spout faucet with aerator and hose end, two 20" flexible supply lines and sealant tape, 1-1/2" PVC P-trap with 12" tailpiece, drain stopper. Provide thermostatic mixing valve set at 110°F.
FD-1	Floor Drain	Floor	Joam 300047E	1/2"	---	3"	3"	---	---	---	Cast iron floor drain with double drainage flange, weep holes, bottom outlet, flashing-clamping device and nickel chrome adjustable strainer. If furnished with indirect wastes - 6" funnels, model F-6 cast brass finished to match the grate, or partial type grates all factory fabricated by the drain manufacturer and completely finished to match the grate. Trap Primer connection.
SH-1	Shower	Floor	Comfort Design SSS363SH-WHG	1/2"	1/2"	1-1/2"	1-1/2"	Delta T1320	---	---	Solid surface finish, GripSure textured floor, one piece design. Provide universal rough in valve R1000-UNWS, diverter rough in valve R1100, shower diverter T11600.
Notes: 1. Provide Water Hammer Arrestors similar to P.P.P., Industries Series SWA on the domestic water branch pipes serving the flush valve fixtures. Install and size per manufacturer's recommendations. 2. Provide Trap Primer Valves similar to P.P.P., Inc. Series PR-500 for all floor drains and floor sinks. Install and size per manufacturer's recommendations. 3. All Floor Cleanouts (P.C.O.) shall be similar to Jay R. Smith 4040. 4. All Wall Cleanouts (W.C.O.) shall be similar to Jay R. Smith 4710.											

MATERIAL AND INSULATION SCHEDULE						
System	Material		Insulation			
	Basis of Design	Alternate	Basis of Design	Type	Wall (in)	Vapor Barrier
Domestic CW - Above Grade	Type "L" Copper	PEX-A	Certainteed	500" Snap On	1/2	Yes
Domestic HW - Above Grade	Type "L" Copper	PEX-A	Certainteed	500" Snap On	1	Yes
Sanitary Piping - Above Grade	Cast Iron	Sch.40 PVC Solid Wall	---	---	---	---
Sanitary Piping - Below Grade	Cast Iron	Sch.80 PVC Solid Wall	---	---	---	---
Sanitary Vent Piping	Cast Iron	Sch.40 PVC Solid Wall	---	---	---	---
Natural Gas Piping	---	Sch. 40 Black Steel	---	---	---	---



PLUMBING SPECIFICATIONS

- GENERAL WORK:**
- The Contractor shall provide all labor, materials, tools, apparatus and equipment required to complete his work in accordance with the contract documents, codes, laws and ordinances, and accepted trade procedures.
 - In preparing his estimate, the contractor shall review all of the contract documents including those of the other trades in order to acquaint himself with existing and related conditions that may, will or could affect his work. He shall be experienced, skilled, and knowledgeable with this type of construction and shall be expert and proficient in the preparation of estimates and the comprehension, implementation, and interpretation of contract documents such as those prepared for this project.
 - The contractor by his acceptance of the contract guarantees that all work installed shall be free from all defects in workmanship and materials and that all apparatus furnished by him shall develop the capacities and characteristics specified. He further guarantees that if, during a period of one (1) year from the date of the certificate of completion and acceptance of the work, any such defects in workmanship, material or performance appear, such defects shall be remedied by him without cost to the owner. If the contractor fails to remedy the defects as outlined within a reasonable length of time, to be specified in a notice from the owner's authorized representative to the contractor, the owner will have such work done, and he will charge the cost to the contractor.
 - The contractor shall visit the site before he submits his proposal. He shall examine all existing conditions which affect the work. The submission of the proposal shall be considered evidence that this requirement has been fulfilled. No extra payment will be allowed for additional work made necessary by the failure to visit the site.
 - Plumbing work shall be installed in a neat and workmanlike manner in accordance with latest and best practices of the trade. Only mechanics skilled in this type of Work shall be employed and utilized by Contractor for this Division in the execution of this Work.
 - The contract drawings are diagrammatic and indicate the general arrangement of all systems and work included in the contract. The contract drawings are not to be scaled. The architectural contract drawings and details together with the other contract documents shall be examined for all dimensional information.
 - The contractor shall follow the contract drawings in laying out his work, and he shall also check the contract drawings of the other trades to verify spaces in which his work shall be provided.
 - The contractor shall, without additional costs to the owner, make reasonable modifications in the layout of his work in order to prevent conflicts with the work of other trades or for the proper execution of his work.
 - The contractor shall supply all labor required to perform all work which may be claimed by trade organizations within his jurisdiction. All work shall be performed without any additional cost to the owner regardless of which section of the contract documents the work is described. The contractor shall be responsible to verify with all local organizations the extent of any collective bargaining agreements and/or any jurisdictional decisions rendered regarding disputes between the respective trades, and provide and install his work in accordance with the accepted trade practice in the area.
 - The entire installation shall conform with all pertinent codes and regulations of the local, municipal, county, state, and federal authorities. The National Board of Fire Underwriters, the 2021 National Standard Plumbing Code (NJ Edition), the codes of the International Code Council, the National Fire Protective Association and all other regulatory bodies having jurisdiction. All materials and equipment shall bear the stamps or seals of the NFPA, ASME, NEMA, IEEE, UL and other recognized industry regulatory groups.
 - The contractor shall give all necessary notices, obtain all permits, pay all governmental taxes, fees and other costs in connection with his work. He shall file all necessary plans, and prepare all other documents including additional detailed plans that are required for compliance with all applicable laws, ordinances, rules and regulations.
 - The Contractor shall coordinate with the General Contractor and locate all required cutting and patching and the like required by the installation of the plumbing work.
 - All work shall be installed in strict accordance with the equipment manufacturer's recommendations and requirements. All systems are to be tested, adjusted and balanced to provide performance as indicated on the drawings. Test and adjust all safety controls.
 - Coordinate to assure that all work of all trades will be concealed within the wall and ceiling construction and without the need to reduce ceiling heights. Report exceptions to the Architect prior to construction and erection of the work. Openings around piping passing through shall be sealed with fire barrier caulking. All materials located within the return air plenum shall be non-combustible with flame spread ratings of 25 or less and smoke developed ratings of 50 or less. All control piping located within ceiling shall be plenum rated and shall be run in conduit. All piping shall be located to avoid conflicts with other work and provide adequate clearances for architectural design, proper operation, adjustments, component service, and provide a minimum 2' clearance between all piping and other work.
 - Provide supports, hangers, flexible pipe connections, vibration supports, supports, controls and wiring, cleaning, painting, specialties and all other labor, materials, devices and services required for a complete, first quality installation. All work shall be supported from the building structural system. Work shall not be supported from the ceiling suspension system, from electrical work, nor from other mechanical work. Unless otherwise indicated, run all piping as high as possible. Provide starters for all motor driven equipment.
 - The contractor shall provide and maintain in good order a complete set of blueprint prints of the contract drawings. As the work progresses, the actual location of all work shall be clearly recorded, including any changes to the contract and equipment size and type. These prints shall be available at the site for inspection at all times. At the conclusion of the work, the contractor shall, at his own expense, submit a set of reproductions of the original contract drawings including the symbols on the contract drawings, shall incorporate all "as built" data in a clearly legible and reproducible manner. All schedules shall be corrected to indicate "as built" conditions. All revisions shall be incorporated into all sketches and all sketches and written directives. All concealed equipment, mainfitters, pull and junction boxes, etc. shall be dimensionally located from the building structure. As a condition for acceptance of the work, the "as built" reproductions and one (1) set of prints shall be signed, dated and delivered to the engineer.
- PLUMBING:**
- All shutoff valves, fixture trims, and plumbing specialties shall be Lead Free per the current regulations.
 - All shutoff valves shall be ball or gate valves. All valves shall be bronze, 125 psi WP, solid wedge disc, non-rising stem, soldered ends. Provide shut-off valves for all connected equipment and plumbing fixtures.
 - The Contractor shall provide a sanitary drain from all fixtures. The Contractor shall provide all required vent piping for all fixtures installed. Pitch Drainage Piping Equal or Smaller than 3/8" at 1/4" per foot. Pitch Drainage Piping 1/2" or Larger at 1/8" per foot.
 - Provide cleanouts in new sanitary and piping 50 feet on centers on all horizontal piping, at direction changes of 45° or more, and elsewhere required by codes. Cleanouts accessible through walls shall be provided with chrome-plated covers and frame, in floors with recessed top to receive floor finishing material.
 - The Contractor shall sterilize all new domestic water piping as required by the plumbing code and the Health Department. The plumbing contractor shall provide water hammer arresters as required. Water hammer arresters: Smith Series 5000 stainless steel Hydrotols, P.D.I. certified and A.S.S.E. approved.
 - Alternate sanitary vent piping shall be standard weight uncoated cast iron bell and spigot soil pipe and fittings conforming to ASTM A74 with caulked oakum and lead joints, no-HUB if permitted by code, DWV Copper, or standard weight galvanized steel with galvanized cast iron banded and recessed screwed drainage fittings, ASTM A74. Alternate sanitary piping within the building shall be standard weight, uncoated cast iron bell and spigot soil pipe and fittings conforming to ASTM A 74 with caulked oakum and lead joints or DWV copper. Code permitting, no-HUB may be used.
 - Provide thermostatic mixing valve at each lavatory, exam room sink, and any sink where hand washing will take place. The mixing valve shall be similar to Powers Model LF460, with the following devices: union inlet strainers, check stops, and shutoff valves. Mixing valve shall be installed under the counter or future being served. Install per manufacturer's recommendations. Leaving water temperature shall be adjusted to 110°F.
 - Provide trap primers for all floor drains. Trap primers shall be supplied with a 1/2" cold water branch pipe. The pipe shall be installed below grade and insulated with 1" Armaflex.
 - Floor Drains shall be installed according to the 2021 National Standard Plumbing Code (NJ Edition).
 - All Plumbing must be tested and approved by plumbing inspector and meet the requirements of the 2021 National Standard Plumbing Code (NJ Edition).
 - All potable water outlets shall be protected from cross connection as required per the 2021 National Standard Plumbing Code (NJ Edition) and local utility rules and regulations.
 - Provide an unconditional one-year written guarantee to replace or repair all defective work.
 - All hole drilling for pipe hangers or floor and wall penetrations shall be by the Plumbing Contractor for Plumbing work.
 - All piping shall be supported by pipe hangers of similar material as pip ng being supported. Suspend from building structure with spacing of hangers not to exceed requirements of the latest edition of the IBC 2021 and the 2021 National Standard Plumbing Code (NJ Edition) as well as the local authority having jurisdiction. Do not use wire or perforated metal strap to support piping. Do not rest piping on any part of building structure for support. Provide all necessary hangers, inserts, supports required to properly support the equipment and piping. Hanger and supports shall be made of the same material as the material of pipe or equipment which is being supported.
 - All plumbing fixtures and fixture trim shall be provided as specified herein. Fixtures shall be complete with all necessary wall hangers & supports, supply stop valves, 17-gauge chrome-plated brass drainage fittings & p-trap, and chrome-plated escutcheons. All exposed piping shall be chrome-plated brass. All fixtures shall be installed level and plumb according to manufacturer's recommendations and code requirements. Provide mildew resistant joint sealant similar to Phenoseal Vinyl adhesive caulk.
 - Seismic protection for the Plumbing system shall be provided as required by the IBC 2021.
 - All gas piping, electric, and other rooftop utilities are to be run from below and brought directly to the machinery they service.
 - Contractor to X-Ray slab/floor for utilities prior to saw cutting, coring, or demolition of floors.
 - All trenches to be backfilled and compacted to 95% compaction, or filled with 3/4" clean stone. Landlord to inspect compaction prior to pouring concrete.

ELECTRICAL COORDINATION

- IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE THE LOCATIONS OF PIPING WITH THE ELECTRICAL CONTRACTOR. PLUMBING PIPING SHALL NOT BE INSTALLED WITHIN THE DEDICATED ELECTRICAL SPACE REQUIRED FOR EXISTING OR NEW ELECTRICAL EQUIPMENT.
- COORDINATION OF PIPING LOCATIONS SHALL BE SOLELY THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. APPROVAL OF PLUMBING SUBMITTAL DRAWINGS DOES NOT RELEASE THE CONTRACTOR FROM COORDINATION RESPONSIBILITY. FINAL COORDINATION SHALL OCCUR IN FIELD WITH ELECTRICAL CONTRACTOR. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN RELOCATION OF SUPPRESSION SYSTEM PIPING AT CONTRACTOR'S EXPENSE.
- PER NFPA 70, ARTICLE 110.26(F), DEDICATED EQUIPMENT SPACE SHALL APPLY TO SWITCHBOARDS, DISTRIBUTION PANELS, AND MOTOR CONTROL CENTERS. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6' ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.

DATE	ISSUED FOR	NO.	DATE	DESCRIPTION	REV'D BY
APPROVAL:		PROJECT:			
Joseph F. McKernan Jr., Architects & Associates 100 Dabbs Lane, Suite 204, Cherry Hill, New Jersey 08034		RENOVATION AT WOODBINE MUNICIPAL AIRPORT HANGAR #5 675 HENRY DEQUOUE BLVD. WOODBINE, NJ 08270			
SCALE:		AS NOTED		DRAWING NO.	
1/8" = 1'-0"		1/8" = 1'-0"		1306	
DATE		DATE		DATE	
REV'D		REV'D		REV'D	
DRAWN BY: RY		CHECKED BY: RY		P-2.0	
DATE		DATE		DATE	