

FOLDS OF HONOR OPERATIONS BUILDING

PROGRESS SET



FOR REFERENCE ONLY

PROJECT CONTACTS

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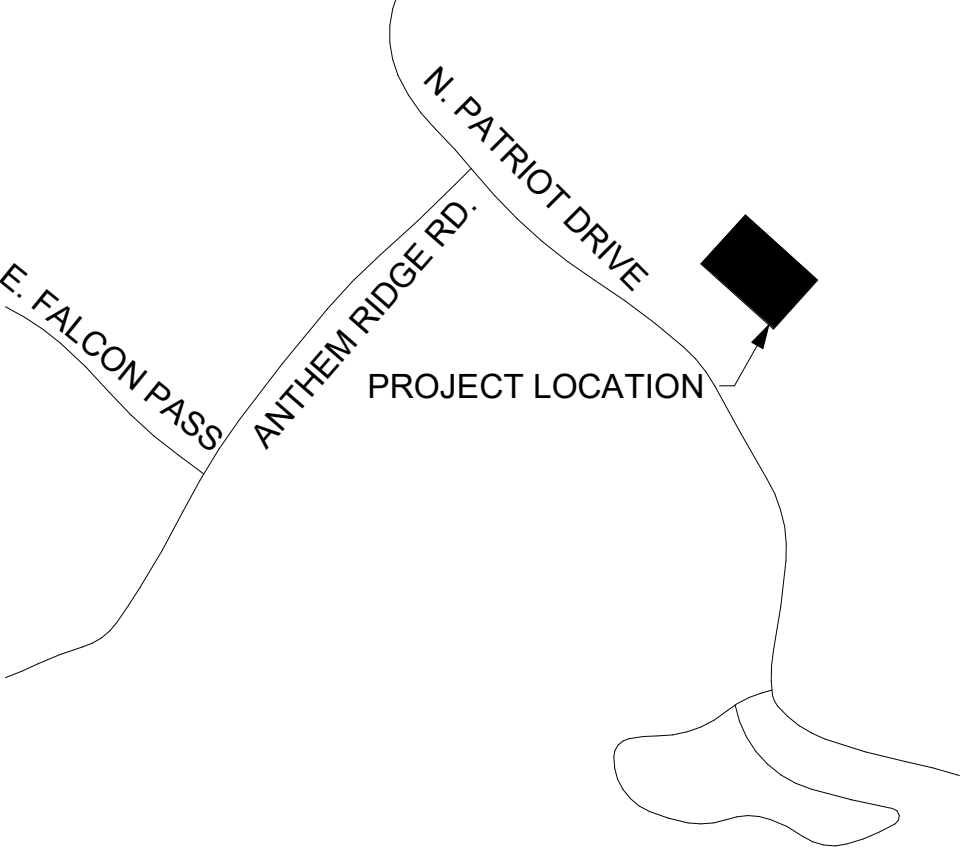
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LOCATION MAP



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INTERIM REVIEW ONLY

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Folds of Honor Operations Building

5917 Patriot Drive, Owasso, OK 74055

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ISSUE DATE:
08/07/2020

ISSUE:
PROGRESS SET

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
COVER SHEET

SHEET NUMBER:
CS

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CODE INFORMATION

SUMMARY OF THE PROJECT

THE BUILDING DEPICTED IN THESE CONSTRUCTION DOCUMENTS IS A FULLY SPRINKLED THREE STORY 29,479 SQUARE FOOT OFFICE BUILDING. BUSINESS ON THE FIRST FLOOR THROUGH THIRD FLOOR, AND AN ASSEMBLY SPACE ON THE THIRD FLOOR.

BUILDING (B) FLOOR 1 GROSS SQ/FT	- 11,175.42 SF
BUILDING (B) FLOOR 2 GROSS SQ/FT	- 10,798.86 SF
BUILDING (A) FLOOR 3 GROSS SQ/FT	- 7,505 SF
TOTAL BUILDING GROSS SQ/FT	- 29,479.28 SF

APPLICABLE CODES

2015 INTERNATIONAL BUILDING CODE (IBC)	2010 ADA ACCESSORY GUIDELINES FOR BUILDINGS AND FACILITIES (ADA)
2015 INTERNATIONAL PLUMBING CODE (IPC)	2009 AMERICAN NATIONAL STANDARDS A117.1
2014 NATIONAL ELECTRIC CODE (NEC)	2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL FIRE CODE (IFC)	2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL MECHANICAL CODE (IMC)	

USE AND OCCUPANCY CLASSIFICATION

304.1 BUSINESS GROUP B OCCUPANCY (PRIMARY OCCUPANCY)
304.1 ASSEMBLY GROUP A-2 OCCUPANCY (ASSEMBLY WITHOUT FIXED SEATING)

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

404 ATRIUMS 404.5 SMOKE CONTROL. A SMOKE CONTROL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 909.
EXCEPTION: IN OTHER THAN GROUP I-2, AND GROUP I-1, CONDITION 2, SMOKE CONTROL IS NOT REQUIRED FOR ATRIUMS THAT CON-NECT ONLY TWO STORIES.

404.6 ENCLOSURE OF ATRIUMS 404.6 ENCLOSURE OF ATRIUMS. ATRIUM SPACES SHALL BE SEPARATED FROM ADJACENT SPACES BY A 1-HOUR FIRE BARRIER CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR A HORIZONTAL ASSEMBLY CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.
PER EXCEPTION 3: A FIRE BARRIER IS NOT REQUIRED BETWEEN THE ATRIUM AND THE ADJOINING SPACES OF ANY THREE FLOORS OF THE ATRIUM PROVIDED SUCH SPACES ARE ACCOUNTED FOR IN THE DESIGN OF THE SMOKE CONTROL SYSTEM.
PER THE COMMENTARY: THIS EXCEPTION CAN ALSO PERMIT A TWO-STORY ATRIUM TO HAVE ADJACENT AREAS OPEN TO THE ATRIUM. IN THIS CASE, SINCE THERE IS NO REQUIRED SMOKE CONTROL SYSTEM, OBVIOUSLY THERE IS NO NEED TO ACCOUNT FOR THE ADDED SPACE (SEE IBC INTERPRETATION NO. 54-07).

GENERAL BUILDING HEIGHTS AND AREAS

TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE TYPE IIB FULLY SPRINKLED BUSINESS - 75 FEET

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE TYPE IIB FULLY SPRINKLED BUSINESS - 3 STORIES

TABLE 506.2 ALLOWABLE AREA TYPE IIB FULLY SPRINKLED BUSINESS (SM) - 28,500 SQUARE FEET FACTOR IN SQUARE FEET

TABLE 506.3.4 MINIMUM FRONTAGE AREA OF INCREASE CALCULATION

DISTANCE	OPEN FRONTAGE: 87'-7" + 123'-7" + 97'-7" = 422'-4" If = [F/P - 0.25]W/30 If = [422'-4"/422'-4" - 0.25] 30/30 If = 0.75 Aa = [At + (NS x If)] Aa = [28,500 + (9,500 x 0.75)] Aa = 35,625 SQUARE FEET ALLOWABLE ACTUAL = 29,479.28 SQFT IS 6,145.72 SQFT UNDER ALLOWABLE AREA	TOTAL PERIMETER: 87'-7" + 123'-7" + 87'-7" + 123'-7" = 422'-4"
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TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES(HOURS) 1 HOUR IS REQUIRED BETWEEN BUSINESS AND ASSEMBLY FOR A SPRINKLERED FACILITIES
B. THE REQUIRED SEPARATION FROM AREAS USED ONLY FOR PRIVATE OR PLEASURE VEHICLES SHALL BE REDUCED BY 1 HOUR BUT NOT LESS THAN 1 HOUR.

TYPE OF CONSTRUCTION

TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS(HOURS)	PRIMARY STRUCTURAL FRAME	0
	BEARING WALLS	0
	INTERIOR EXTERIOR	0
	NON BEARING WALLS AND PARTITIONS	0
	EXTERIOR NON BEARING WALLS AND PARTITIONS	0
	INTERIOR FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
	ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

TABLE 602 FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

X < 5	1 HOUR
5 ≤ X < 10	1 HOUR
10 ≤ X < 30	1 HOUR
X ≥ 30	0 HOUR

FIRE AND SMOKE PROTECTION FEATURES

705.2.1 TYPES I AND II CONSTRUCTION PROJECTIONS FROM WALLS OF TYPE I OR II CONSTRUCTION SHALL BE OF NONCOMBUSTIBLE MATERIALS OR COMBUSTIBLE MATERIALS AS ALLOWED BY SECTION 1406.3 AND 1406.4.

705.2.1 TYPES I AND II CONSTRUCTION PROJECTIONS FROM WALLS OF TYPE I OR II CONSTRUCTION SHALL BE OF NONCOMBUSTIBLE MATERIALS OR COMBUSTIBLE MATERIALS AS ALLOWED BY SECTION 1406.3 AND 1406.4.

TABLE 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS 5 TO LESS THAN 10 - UNPROTECTED, SPRINKLERED (UP, S) - 25% ALLOWABLE AREA

705.8.5 PROTECTED OPENINGS WHERE OPENINGS ARE REQUIRED TO BE PROTECTED, FIRE DOORS AND FIRE SHUTTERS SHALL COMPLY WITH SECTION 716.5 AND FIRE WINDOW ASSEMBLIES SHALL COMPLY WITH SECTION 716.6.
EXCEPTION: OPENING PROTECTIVE ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.1.1 AND THE EXTERIOR OPENINGS ARE PROTECTED BY A WATER CURTAIN USING AUTOMATIC SPRINKLERS APPROVED FOR THAT USE.

705.11.1 PARAPET CONSTRUCTION PARAPETS SHALL HAVE THE SAME FIRE-RESISTANCE RATING AS THAT REQUIRED FOR THE SUPPORTING WALL

706.1 GENERAL EACH PORTION OF A BUILDING SEPARATED BY ONE OR MORE FIRE WALLS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED A SEPARATE BUILDING.

TABLE 706.4 FIRE-RESISTANCE RATING GROUP B - 3 HOUR
NOTE A. IN TYPE II OR V CONSTRUCTION, WALLS SHALL BE PERMITTED TO HAVE A 2-HOUR FIRE RESISTANCE RATING

TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES(HOURS) 2 HOUR IS REQUIRED BETWEEN BUSINESS AND S-2 FOR A NON SPRINKLERED FACILITIES
B. THE REQUIRED SEPARATION FROM AREAS USED ONLY FOR PRIVATE OR PLEASURE VEHICLES SHALL BE REDUCED BY 1 HOUR BUT NOT LESS THAN 1 HOUR.

706.6 VERTICAL CONTINUITY FIRE WALL SHALL EXTEND FROM THE FOUNDATION TO A TERMINATION POINT NOT LESS THAN 30 INCHES ABOVE BOTH ADJACENT ROOFS
EXCEPTIONS:
2. TWO HOUR FIRE-RESISTANCE-RATED WALL SHALL BE PERMITTED TO TERMINATE AT THE UNDERSIDE OF THE ROOF SHEATHING, DECK OR SLAB, PROVIDED.
2.1 THE LOWER ROOF ASSEMBLY WITHIN 4 FEET OF THE WALL HAS NOT LESS THAN 1-HOUR FIRE-RESISTANCE RATING.
2.2 OPENINGS IN TECH ROOF SHALL NOT BE LOCATED WITHIN 4 FEET OF THE FIRE WALL.
2.3 EACH BUILDING SHALL BE PROVIDED WITH NOT LESS THAN A CLASS B ROOF COVERING.

713.4 FIRE-RESISTANCE RATING SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES.

INTERIOR FINISHES

TABLE 803.11 INTERIOR FINISH REQUIREMENTS: TYPE IIA SPRINKLERED
INTERIOR EXIT STAIRWAYS PASSAGEWAYS CLASS B
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS CLASS B
ROOMS AND ENCLOSED SPACES CLASS C

FIRE PROTECTION SYSTEMS

901.2 FIRE PROTECTION SYSTEMS FIRE PROTECTION SYSTEMS SHALL BE INSTALLED, REPAIRED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE INTERNATIONAL FIRE CODE

901.6 SUPERVISORY SERVICE WHERE REQUIRED, FIRE PROTECTION SYSTEMS SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72

901.6.2 FIRE ALARM SYSTEMS FIRE ALARM SYSTEMS REQUIRED BY THE PROVISION OF SECTION 907.2 OF THIS CODE AND SECTIONS 907.2 AND 907.9 OF THE INTERNATIONAL FIRE CODE SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH SECTION 907.6.6

903 AUTOMATIC SPRINKLER SYSTEMS AUTOMATIC FIRE SPRINKLER SYSTEM IS TO BE PROVIDED THROUGHOUT ENTIRE BUILDING, NFPA 13 AUTOMATIC SPRINKLER SYSTEM

905.3.1 HEIGHT CLASS 1 STANDPIPE SYSTEM TO BE PROVIDED

906 PORTABLE FIRE EXTINGUISHERS PORTABLE FIRE EXTINGUISHERS PER NFPA 10

907.2.2 GROUP B A MANUAL FIRE ALARM AND SMOKE DETECTION SYSTEM TO BE INSTALLED THROUGHOUT

913.2.1 PROTECTION OF FIRE PUMP ROOMS FIRE PUMPS SHALL BE LOCATED IN ROOMS THAT ARE SEPARATED FROM ALL OTHER AREAS OF THE BUILDING BY 2-HOUR FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR 2-HOUR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.

MEANS OF EGRESS

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT - NORTH SECTION

FIRST FLOOR	BUSINESS	8,813 GSF / 100 =	89 OCCUPANTS
	MECHANICAL/STORAGE	535 GSF / 300 =	2 OCCUPANTS
FIRST FLOOR OCCUPANT = 91 OCCUPANTS			
SECOND FLOOR	BUSINESS	9,314 GSF / 100 =	94 OCCUPANTS
	MECHANICAL/STORAGE	100 GSF / 300 =	1 OCCUPANTS
SECOND FLOOR OCCUPANT = 95 OCCUPANTS			
THIRD AND FOURTH FLOOR	ASSEMBLY (A-2)	4,946 NSF / 15 =	330 OCCUPANTS
	MECHANICAL/STORAGE <th>532 NSF / 300 =</th> <th>2 OCCUPANTS</th>	532 NSF / 300 =	2 OCCUPANTS
THIRD FLOOR OCCUPANT = 332 OCCUPANTS			
TOTAL BUILDING OCCUPANT LOAD = 518 OCCUPANTS			

1005.3.1 STAIRWAYS THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 PER OCCUPANT.

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY FOR GROUP B CANNOT EXCEED AN OCCUPANT LOAD OF 49
WITH SPRINKLER SYSTEM WITH AN OCCUPANT LOAD GREATER THAN 30 THE COMMON PATH OF EGRESS TRAVEL DISTANCE IN FEET IS 100

2 EXITS OR EXIT ACCESS DOORWAYS SHALL BE PROVIDED FROM ANY SPACE WITH AN OCCUPANT LOAD OF 1-500.

1007.1 GENERAL TWO EXITS OR EXIT ACCESS DOORWAYS WHERE TWO EXITS, OR EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION THEREOF, ARE REQUIRED FROM ANY PORTION OF THE EXT ACCESS, THEY SHALL BE PLACED A DISTANCE APART TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING.

PER 1009.2 CONTINUITY AND COMPONENTS EACH REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS TO A PUBLIC WAY AND SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS:
ITEM 2: INTERIOR EXIT STAIR COMPLYING WITH 1009.3 AND 1023.

PER 1009.3 STAIRWAYS IN ORDER TO BE CONSIDERED PART OF AN ACCESSIBLE MEANS OF EGRESS, A STAIRWAY BETWEEN STORIES SHALL HAVE A CLEAR WIDTH OF 48 INCHES (1219 MM) MINIMUM BETWEEN HANDRAILS AND SHALL EITHER INCORPORATE AN AREA OF REFUGE WITHIN AN ENLARGED FLOOR-LEVEL LANDING OR SHALL BE ACCESSED FROM AN AREA OF REFUGE COMPLYING WITH SECTION 1009.6. EXIT ACCESS STAIRWAYS THAT CONNECT LEVELS IN THE SAME STORY ARE NOT PERMITTED AS PART OF AN ACCESSIBLE MEANS OF EGRESS.

PER EXCEPTION 2: THE CLEAR WIDTH OF 48 INCHES (1219 MM) BETWEEN HANDRAILS IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.
PER EXCEPTION 5: AREAS OF REFUGE ARE NOT REQUIRED AT STAIRWAYS IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.
EXCEPTION 7: AREAS OF REFUGE ARE NOT REQUIRED AT STAIRWAYS IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.

1014.2 HEIGHT HANDRAIL HEIGHT, MEASURED ABOVE STAIR TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE UNIFORM, NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES.

1014.4 CONTINUITY HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS OR OTHER OBSTRUCTIONS

1014.6 HANDRAIL EXTENSION HANDRAILS SHALL RETURN TO WALL, GUARD OR WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT FLIGHT OF STAIRS OR RAMP RUN

1014.7 CLEARANCE CLEAR SPACE BETWEEN A HANDRAIL AND A WALL OR OTHER SURFACE SHALL BE NOT LESS THAN 1 1/2 INCHES

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE NON SPRINKLERED OCCUPANCY GROUP A-2; 250 FEET

1019.2 ALL OCCUPANCIES EXIT ACCESS STAIRWAYS AND RAMPS THAT SERVE FLOOR LEVELS WITHIN A SINGLE STORY ARE NOT REQUIRED TO BE ENCLOSED

1020.4 DEAD ENDS WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOOR WAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FEET IN LENGTH.

PLUMBING FIXTURE COUNT

TOTAL OCCUPANTS: 518 OCCUPANTS
TOTAL BUSINESS (B) OCCUPANTS: 186
TOTAL ASSEMBLY (A-3) OCCUPANTS: 332

FIXTURE TYPE	FACTOR	IBC NUMBER REQUIRED	NUMBER PROVIDED
WATER CLOSETS	BUSINESS: 93 MEN, 93 WOMEN 1 per 25 for the first 50 and 1 per 50 for the remainder ASSEMBLY: 166 MEN, 166 WOMEN BUSINESS: 1 per 40 for the first 80 and 1 per 80 for the remainder ASSEMBLY: 1 per 200	MEN: 5 WOMEN: 6	MEN: 6 WOMEN: 6
LAVATORIES		MEN: 3 WOMEN: 3	12
DRINKING FOUNTAIN	1 per 100	4	4
SERVICE SINK	1 per Building	1	3

2902.5 DRINKING FOUNTAIN LOCATION. DRINKING FOUNTAINS SHALL NOT BE REQUIRED TO BE LOCATED IN INDIVIDUAL TENANT SPACES PROVIDED THAT PUBLIC DRINKING FOUNTAINS ARE LOCATED WITHIN A DISTANCE OF TRAVEL OF 500 FEET OF THE MOST REMOTE LOCATION IN THE TENANT SPACE AND NOT MORE THAN ONE STORY ABOVE OR BELOW THE TENANT SPACE.

OCCUPANCY LEGEND

BUSINESS (100 NSF)
18,127 SQ. FT.

ASSEMBLY UNCONCENTRATED TABLES AND CHAIRS (15 GSF)
4,947 SQ. FT.

ACCESSORY STORAGE AREAS, MECHANICAL, EQUIPMENT ROOM (300 GSF)
1,211 SQ. FT.

LEGEND

FE
XXX
30 occ * 0.2 = 6
5 31/32" R/O
0" PROVIDED

STAIR WIDTH
XXX
30 occ * 0.3 = 9
5 31/32" R/O
0" PROVIDED

EXIT WIDTH
XXX
30 occ * 0.2 = 6
5 31/32" R/O
0" PROVIDED

STAIR MARK
STAIR WIDTH CALCULATION
REQUIRED STAIR WIDTH
PROVIDED STAIR WIDTH

DOOR MARK
DOOR WIDTH CALCULATION
REQUIRED DOOR WIDTH
PROVIDED DOOR WIDTH

LINE OF TRAVEL
TRAVEL DISTANCE TO EXITS = MAX 250' (IBC 1017.2)
COMMON PATH OF TRAVEL = 75' MAX (IBC 1006.2.1)
DEAD ENDS = 20' MAX

FIRE EXTINGUISHER
75' MAX TRAVEL DISTANCE TO EXTINGUISHER (NFPS 10, 3-2.1)

EXIT SIGN

PLAN RATING LEGEND

1-HOUR RATED CONSTRUCTION

C THIRD FLOOR - LIFE SAFETY
1/16" = 1'-0"

B SECOND FLOOR - LIFE SAFETY PLAN
1/16" = 1'-0"

A FIRST FLOOR - LIFE SAFETY PLAN
1/16" = 1'-0"

GH2 ARCHITECTS

INTERIM REVIEW ONLY

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Folds of Honor Operations Building

5917 Patriot Drive, Owasso, OK 74055

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20170021

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08/07/2020

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PROGRESS SET

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LIFE SAFETY PLAN

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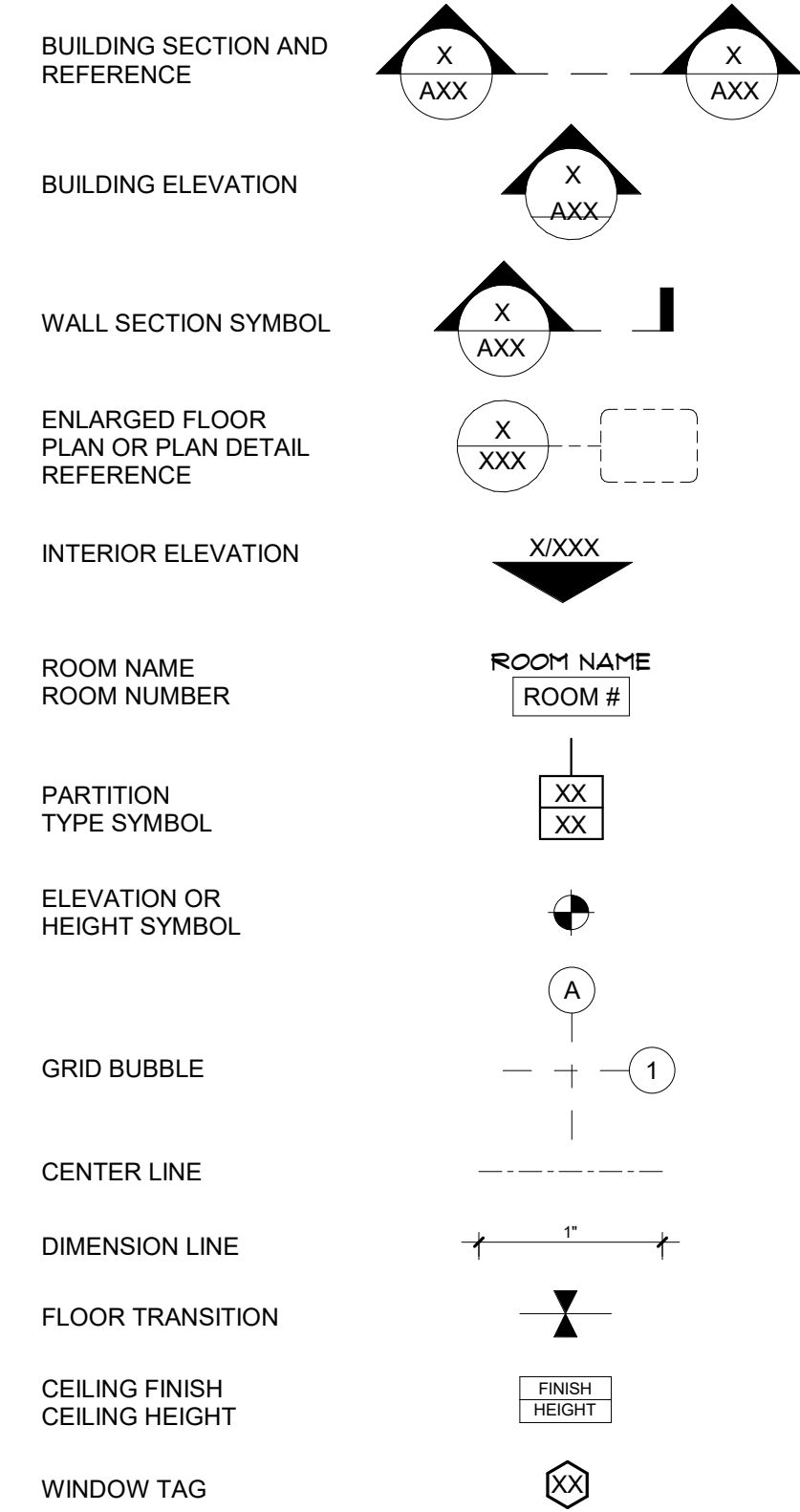
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- GENERAL PROJECT NOTES**
- GENERAL NOTES ARE TYPICAL FOR AREAS WITHIN SCOPE OF WORK.
 - THE CONTRACT DOCUMENTS IN THEIR ENTIRETY ARE THE RESPONSIBILITY OF ALL TRADES. WHERE REQUIREMENTS ARE SHOWN IN ONE SECTION OF THE SPECIFICATIONS OR DRAWINGS BUT NOT ANOTHER, THE CONTRACTOR OR SUBCONTRACTOR IS NOT RELIEVED FROM PROVIDING COMPLETELY FINISHED, COORDINATED AND PROPERLY FUNCTIONING SYSTEMS.
 - ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR THE PROPER EXECUTION, INSTALLATION, OR PERFORMANCE OF THE WORK, SHALL BE PROVIDED BY THE CONTRACTOR / SUBCONTRACTOR.
 - THE CONTRACTOR / SUBCONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LAYOUT AND COORDINATION OF DIMENSIONS IN THE FIELD THAT ESTABLISH WORK POINTS FOR THEIR WORK AND VARIOUS TRADES.
 - THE CONTRACTOR / SUBCONTRACTOR SHALL TAKE CARE TO PROTECT ALL NEWLY INSTALLED MATERIALS AND FINISHES UNTIL WORK IS FORMALLY ACCEPTED BY THE ARCHITECT OR THE OWNER'S REPRESENTATIVE AND TRANSFERRED TO THE OWNER.
 - THE CONSTRUCTION SITE IS TO BE KEPT CLEAN AND FREE OF DEBRIS. THE CONTRACTOR / SUBCONTRACTOR IS RESPONSIBLE FOR ALL PHASING, SECURING, HANDLING, TRANSPORTING AND DISPOSING OF DEBRIS.
 - THE PRESENCE OF THE ARCHITECT OR AN ARCHITECT'S REPRESENTATIVE ON THE JOB SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK. THE CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ATTENTION OF THE ARCHITECT IF THE CONTRACTOR WISHES TO OBTAIN THE ARCHITECT'S APPROVAL.
 - IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING.
 - DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IF CRITICAL DIMENSIONS DO NOT APPEAR ON CONSTRUCTION DOCUMENTS, OR CONFLICT WITH DIMENSIONS ON OTHER DETAILS, NOTIFY THE ARCHITECT.
 - VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR EQUIPMENT THAT IS EXISTING, REUSED, OR FURNISHED BY OWNER.
 - ALL PENETRATIONS THROUGH FLOORS, WALLS AND RATED ASSEMBLIES AS WELL AS ALONG SLAB PERIMETERS AND SEPARATION WALL PERIMETERS, SHALL BE SEALED AND PROTECTED WITH A U.L. APPROVED ASSEMBLY AND / OR PROTECTIVE DEVICES HAVING THE SAME OR GREATER TESTED RATING AS THAT REQUIRED FOR THE ASSEMBLY BEING PENETRATED. ALL PENETRATIONS TO BE PROTECTED TO MAINTAIN FIRE RATED ASSEMBLY INTEGRITY.
 - PROVIDE ELECTROLYTIC PROTECTION / ISOLATION BETWEEN ALL DISSIMILAR METALS, WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND / OR CORROSION.
 - THE CONTRACTOR / SUBCONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING, BACKING OR STRUCTURAL SUPPORT AS REQUIRED TO PROPERLY INSTALL ALL MOUNTED ASSEMBLIES, INCLUDING ALL ATTACHED EQUIPMENT (OWNER AND CONTRACTOR FURNISHED ITEMS), PLUMBING FIXTURES, MILLWORK, AND CASEWORK.

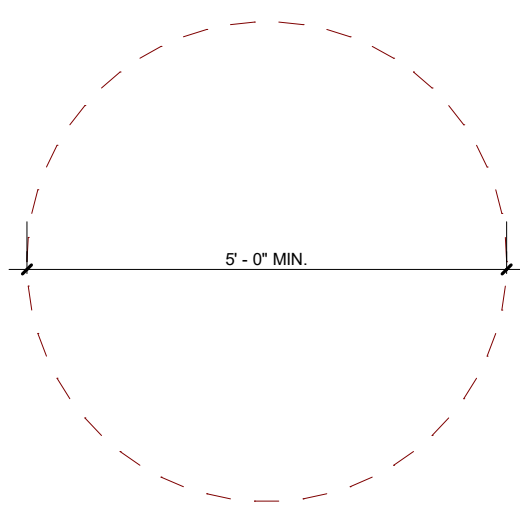
DEFINITIONS

ALIGN	TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION
CLEAR	MINIMUM DIMENSION BETWEEN FINISHED CONDITION, SHALL BE TREATED AS A PRIORITY TO HOLD BEFORE OTHER DIMENSIONS
MAXIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT
MINIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT
SIMILAR	THE CONDITION APPLIES TO LIKE CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE
TYPICAL	THE CONDITION APPLIES TO THE SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE

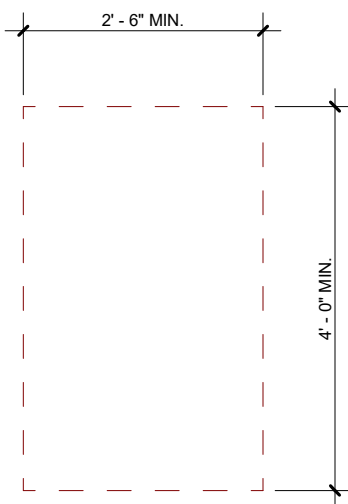
FLOOR PLAN SYMBOL LEGEND



TURNING RADIUS AND CLEAR SPACE

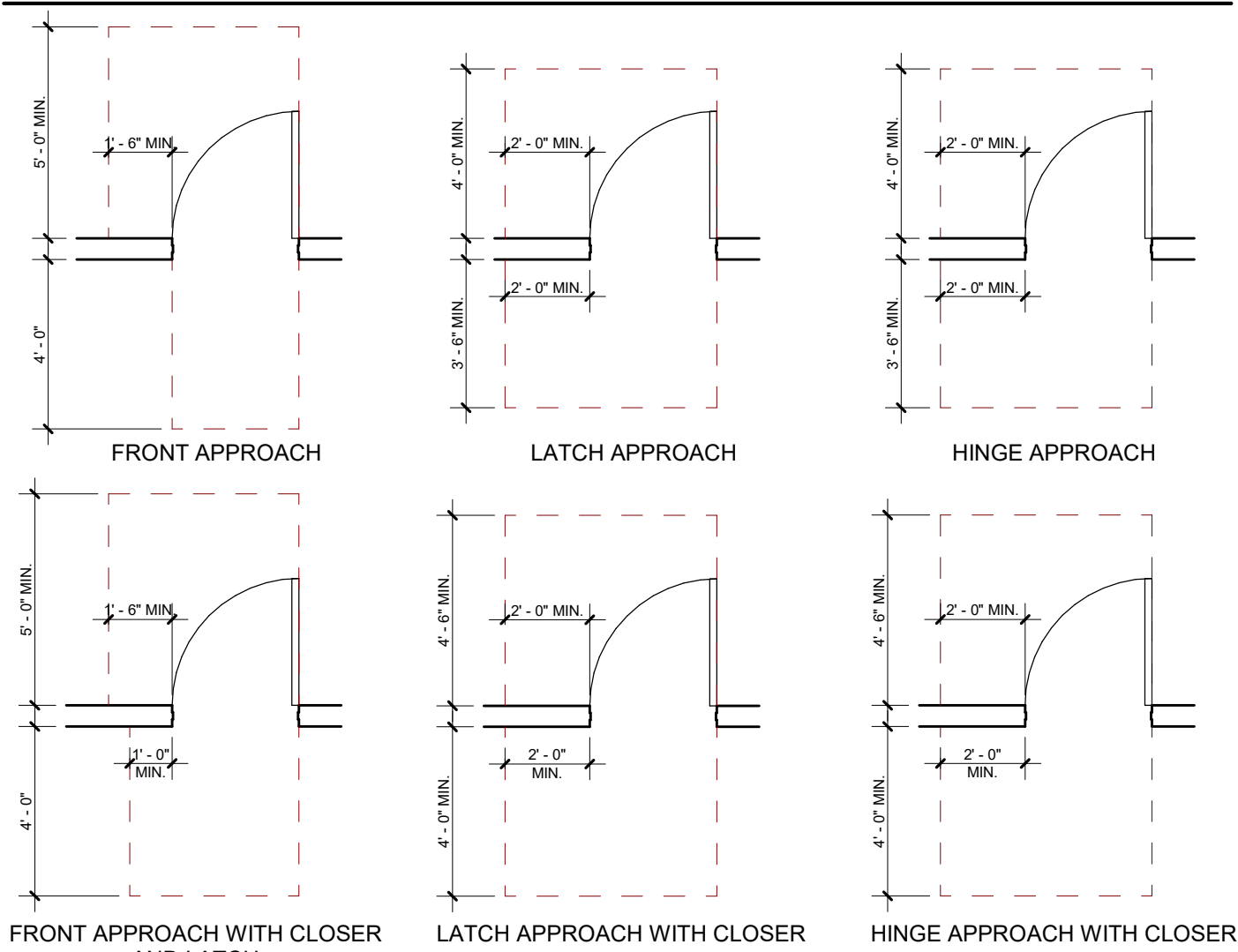


TURNING SPACE: CIRCULAR 60" DIAMETER MINIMUM AND IS PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE



CLEAR FLOOR SPACE: 30" MIN BY 48" MIN. AND UNLESS OTHERWISE SPECIFIED, IS PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE

DOOR CLEARANCES

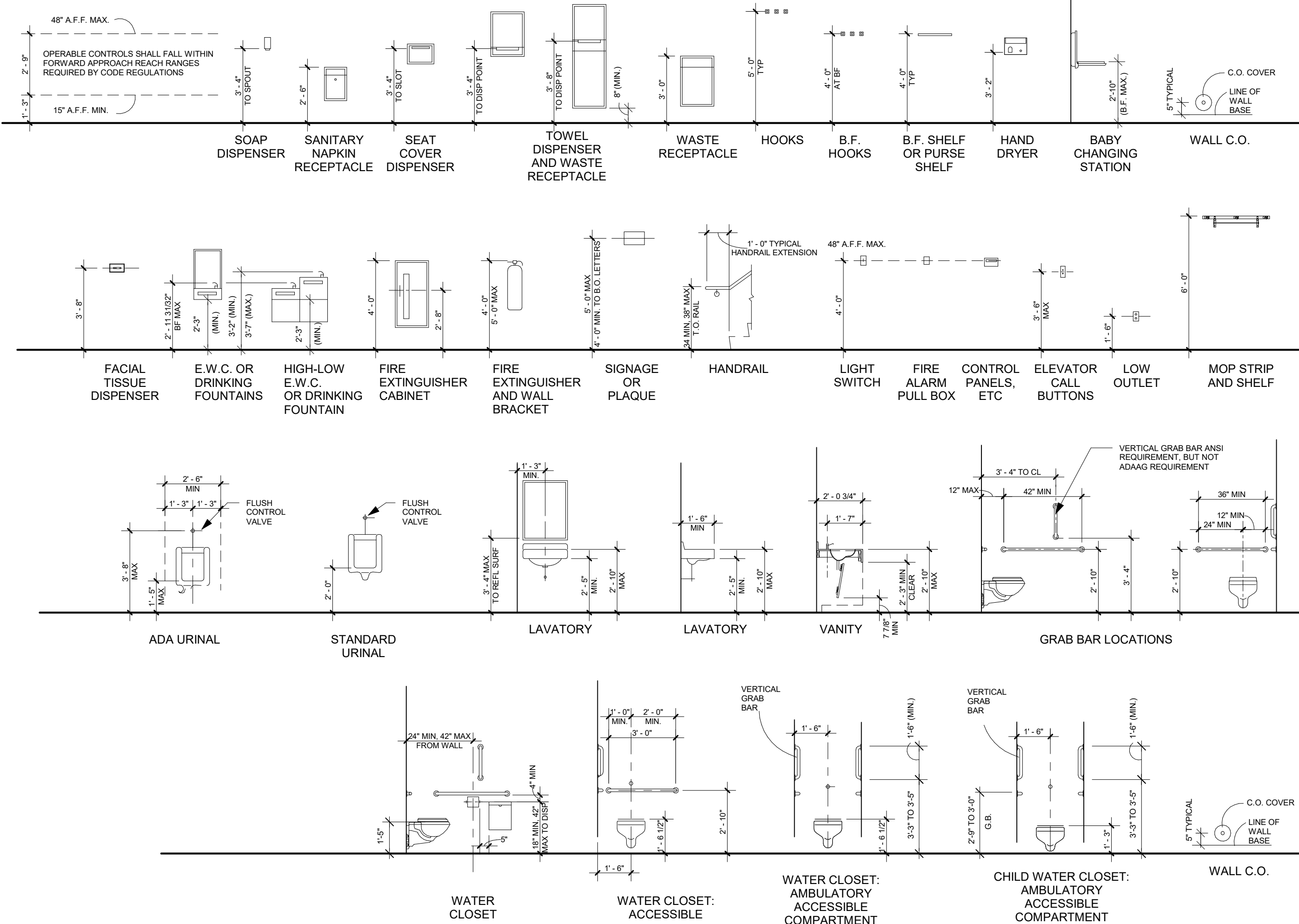


PARTITION TYPES GENERAL NOTES

- SEALING AROUND J BOXES REQUIRED IF WALLS ARE FIRE, SMOKE, OR STC RATED.
- REFER TO PLANS FOR LOCATIONS OF WALLS REQUIRING ADDITIONAL LAYER OF GYPSUM BOARD.
- FOR PARTITIONS RECEIVING SOUND ATTENUATION BLANKETS, OR SABs, EXTEND SAB FULL HEIGHT OF PARTITION AND SET FLOOR TRACK IN FULL BED OF CONTINUOUS SEALANT, UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD TO BE TYPE X, UNLESS NOTED OTHERWISE.

MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES

NOTE: MOUNTING HEIGHTS SHOWN ARE PROPOSED FOR ALL ACCESSORIES AND FIXTURES REQUIRED UNLESS NOTED OTHERWISE OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS (B.F. - DENOTES ACCESSIBLE BARRIER FREE REQUIREMENTS)



INTERIM REVIEW ONLY

THESE DOCUMENTS ARE INCOMPLETE. THEY ARE NOT INTENDED TO BE USED FOR PERMIT, BIDDING, OR CONSTRUCTION.

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GH2 PROJECT NUMBER:
20170021

ISSUE DATE:
08/07/2020

ISSUE:
PROGRESS SET

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
GENERAL INFORMATION AND NOTES

SHEET NUMBER:

G002

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CAUTION
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

GENERAL:
CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS,STREETS,WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEEPED ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.

THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.

ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.

UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ROGERS COUNTY STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS AND OKLAHOMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND/OR THE APPROPRIATE LOCAL AUTHORITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, AND TAP FEES, ETC.

ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.

RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.

NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

OKIE:
ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS AND HOLIDAYS) AND CALL "OKIE" AT 1-800-522-6543.

EXISTING UTILITY LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

SITE WORK AND GRADING:
ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS AND CURB RAMPS SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, AND THE INTERIM FINAL RULES FOR PUBLIC RIGHT-OF-WAY, PUBLISHED IN THE FEDERAL REGISTER, SEPTEMBER 2010. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR, WRITTEN PERMISSION FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

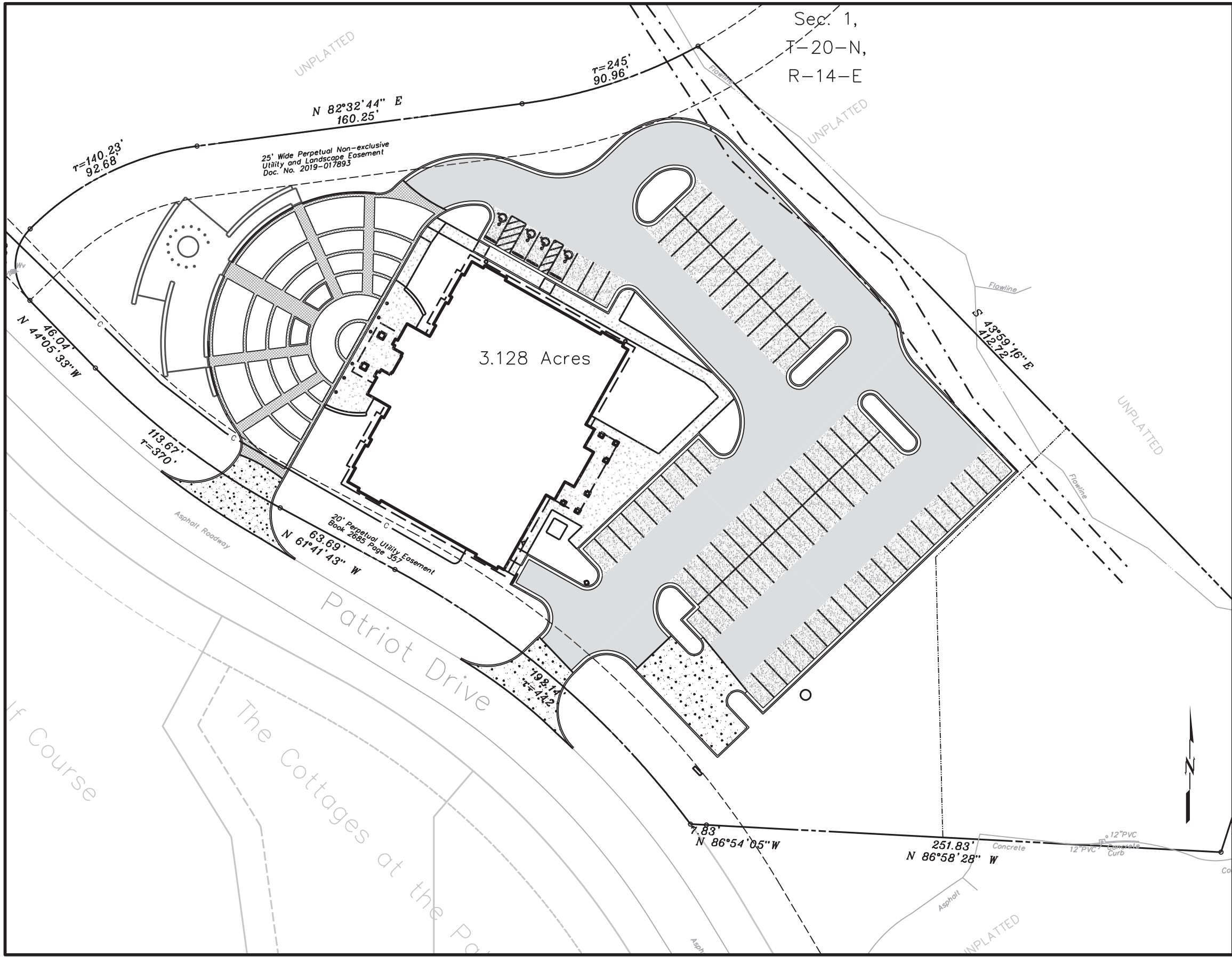
CROSS SLOPES FOR SIDEWALKS SHALL NOT EXCEED 1:50
RAMP SLOPES SHALL NOT EXCEED 1:12
GRADES EXCEEDING 5% WILL BE TREATED AS A RAMP SLOPE

FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.05 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATIONS AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISHED DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION.

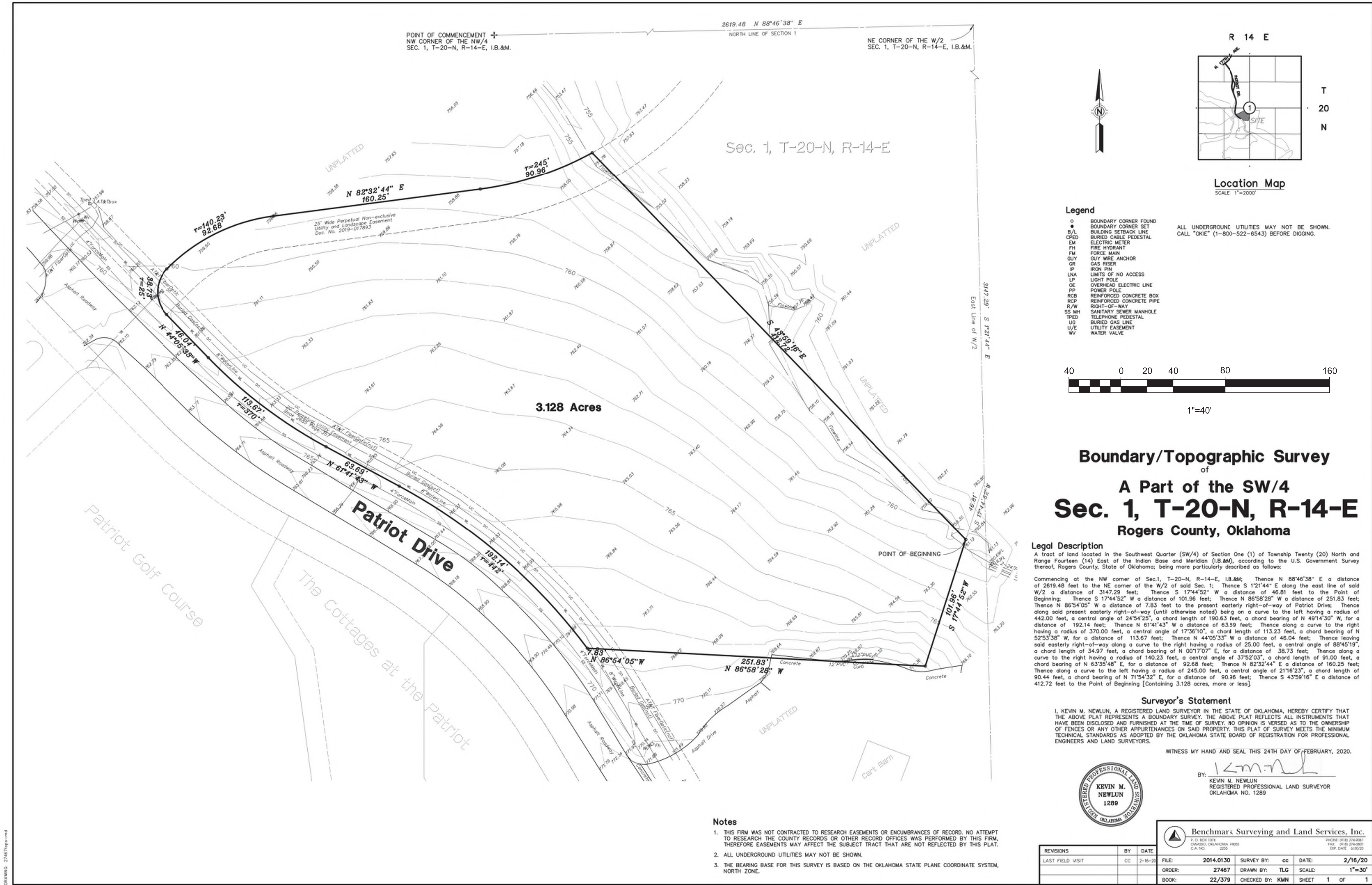
GEOTECHNICAL:
SEE GEOTECHNICAL REPORTS PREPARED BY AIMRIGHT TESTING & ENGINEERING LLC, DATED 03.12.2020.

SURVEY:
EXISTING TOPOGRAPHY IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY BENCHMARK SURVEYING AND LAND SERVICES, INC. , DATED 02.16.2020.

Permit Set for FOLDS OF HONOR OPERATIONS BUILDING

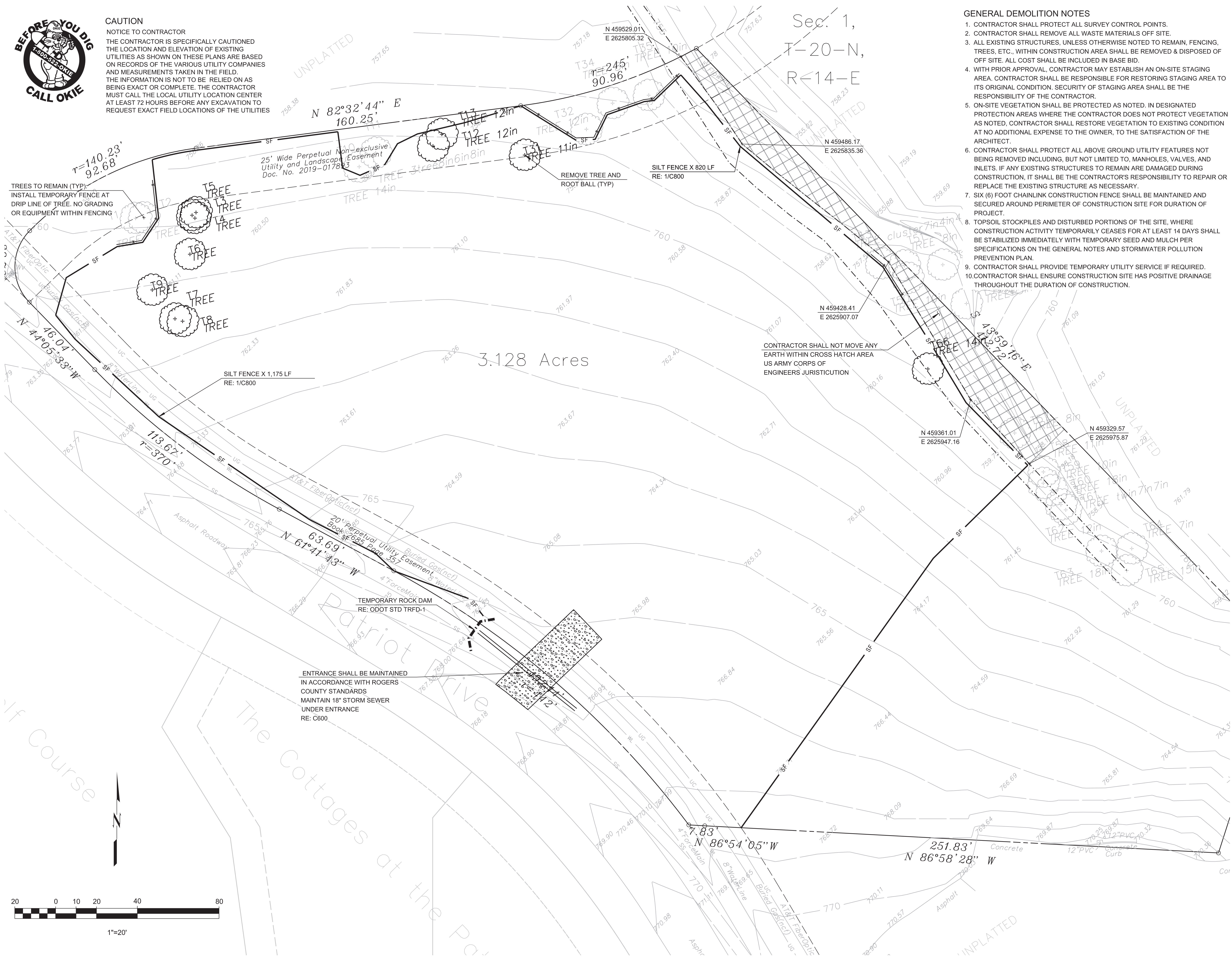


LEGEND			
--- 660 ---	EXISTING MAJOR CONTOUR	BM	BENCH MARK
--- 662 ---	EXISTING MINOR CONTOUR	CO	CLEANOUT
--- 660 ---	NEW MAJOR CONTOUR	CG	DOWN GUY
--- 662 ---	NEW MINOR CONTOUR	EP	EMERGENCY PHONE
---	FENCE	FDC	FIBER OPTIC MANHOLE
---	TELEPHONE OVERHEAD	FH	FIRE DEPT CONNECTION
---	POWER LINE OVERHEAD	FM	FIRE HYDRANT
---	GAS LINE	GW	GAS / OIL WELL
---	OIL LINE	GM	GAS METER
---	PUG	LP	LIGHT POLE
---	TELEPHONE UNDERGROUND	LP	LIGHT POLE
---	TUG	LP	LIGHT POLE
---	TV UNDERGROUND	LP	LIGHT POLE
---	WATER LINE	LP	LIGHT POLE
---	SANITARY SEWER LINE	LP	LIGHT POLE
---	STORM SEWER LINE	LP	LIGHT POLE
---	FLOW LINE DITCH	LP	LIGHT POLE
---	ODOT TEMPORARY SILT FENCE	LP	LIGHT POLE
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---	SANITARY SEWER LINE	LP	LIGHT POLE
---	STORM SEWER LINE	LP	LIGHT POLE
---	FLOW LINE DITCH	LP	LIGHT POLE
---	ODOT TEMPORARY SILT FENCE	LP	LIGHT POLE
---	SILT FENCE	LP	LIGHT POLE
---	EXISTING MAJOR CONTOUR	LP	LIGHT POLE
---	EXISTING MINOR CONTOUR	LP	LIGHT





CAUTION
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES



- GENERAL DEMOLITION NOTES
1. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
 2. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
 3. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. ALL COST SHALL BE INCLUDED IN BASE BID.
 4. WITH PRIOR APPROVAL, CONTRACTOR MAY ESTABLISH AN ON-SITE STAGING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING STAGING AREA TO ITS ORIGINAL CONDITION. SECURITY OF STAGING AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 5. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ARCHITECT.
 6. CONTRACTOR SHALL PROTECT ALL ABOVE GROUND UTILITY FEATURES NOT BEING REMOVED INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVES, AND INLETS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
 7. SIX (6) FOOT CHAINLINK CONSTRUCTION FENCE SHALL BE MAINTAINED AND SECURED AROUND PERIMETER OF CONSTRUCTION SITE FOR DURATION OF PROJECT.
 8. TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE, WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH PER SPECIFICATIONS ON THE GENERAL NOTES AND STORMWATER POLLUTION PREVENTION PLAN.
 9. CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY SERVICE IF REQUIRED.
 10. CONTRACTOR SHALL ENSURE CONSTRUCTION SITE HAS POSITIVE DRAINAGE THROUGHOUT THE DURATION OF CONSTRUCTION.



06/19/2020

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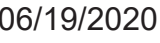
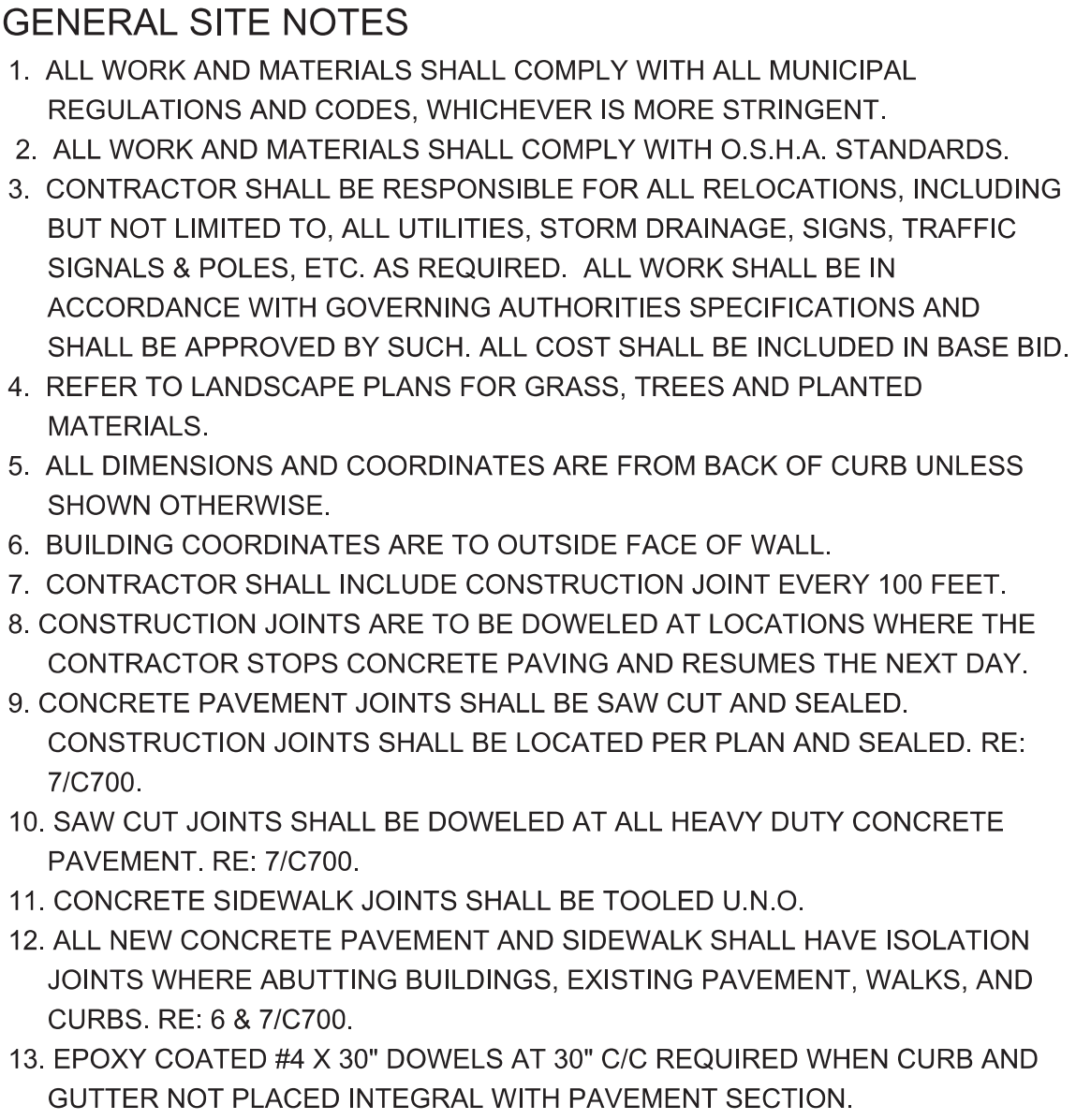
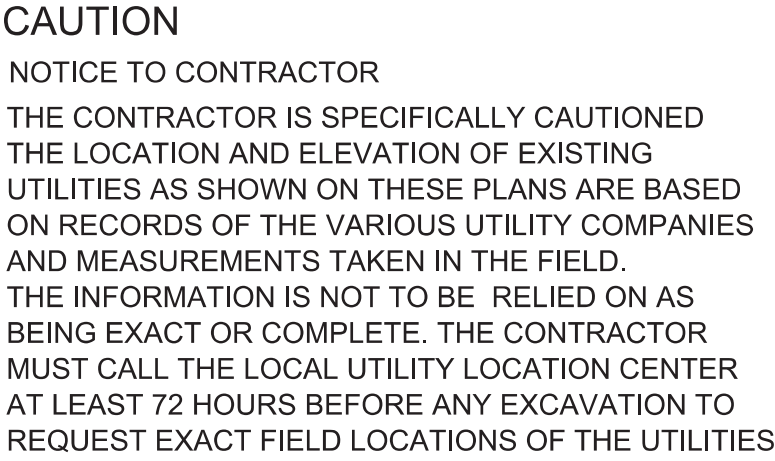
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ISSUE DATE: 06/19/2020		
ISSUE: PERMIT SET		
OTHER ISSUE DATES:		
NO.	DESCRIPTION	DATE

SHEET NAME:
DEMOLITION & EROSION CONTROL PLAN

SHEET NUMBER:
C300

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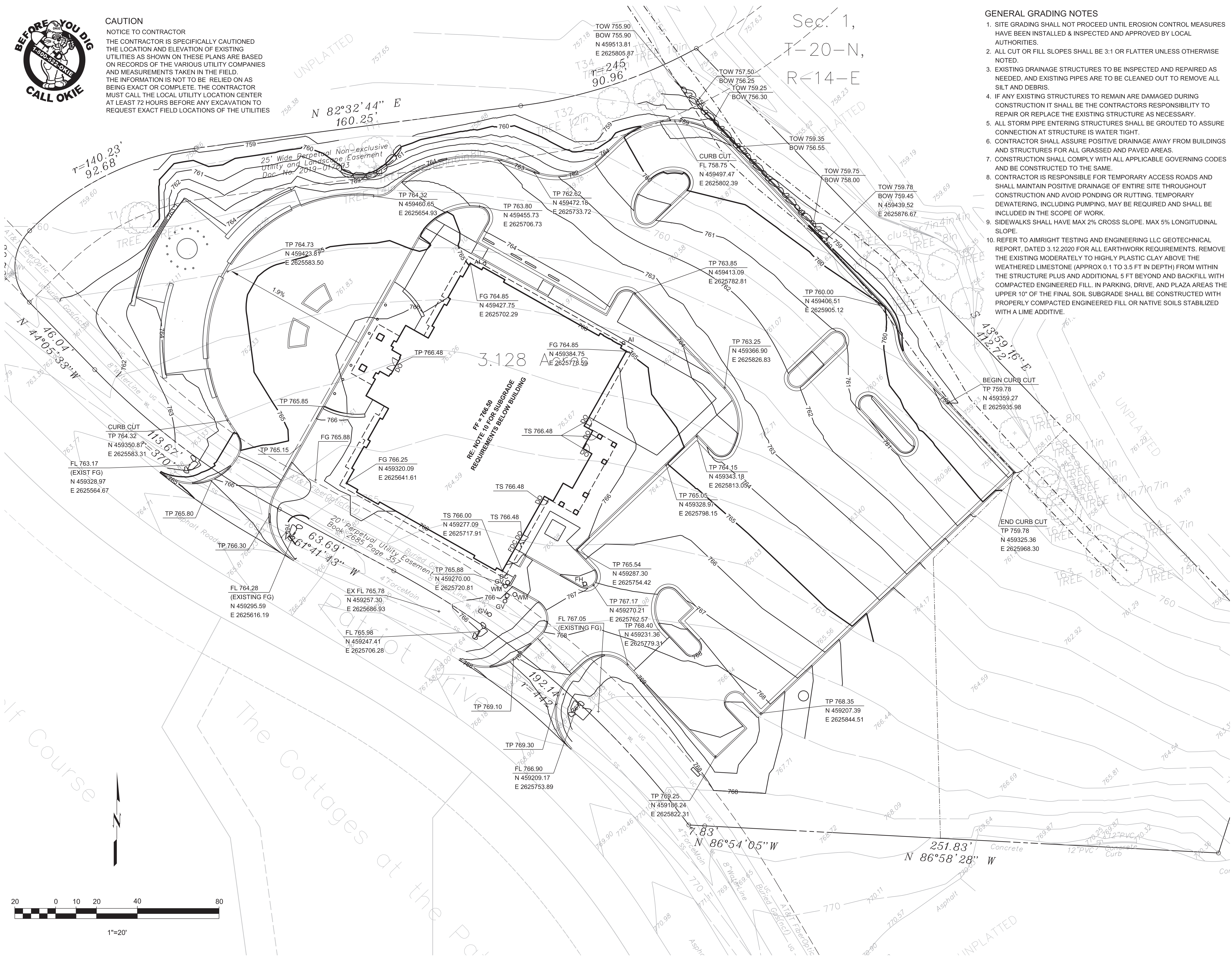
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SHEET NUMBER:
C400
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CAUTION
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES



- GENERAL GRADING NOTES
1. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED & INSPECTED AND APPROVED BY LOCAL AUTHORITIES.
 2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
 3. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
 4. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
 5. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
 6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS.
 7. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO THE SAME.
 8. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.
 9. SIDEWALKS SHALL HAVE MAX 2% CROSS SLOPE. MAX 5% LONGITUDINAL SLOPE.
 10. REFER TO AIMRIGHT TESTING AND ENGINEERING LLC GEOTECHNICAL REPORT, DATED 3.12.2020 FOR ALL EARTHWORK REQUIREMENTS. REMOVE THE EXISTING MODERATELY TO HIGHLY PLASTIC CLAY ABOVE THE WEATHERED LIMESTONE (APPROX 0.1 TO 3.5 FT IN DEPTH) FROM WITHIN THE STRUCTURE PLUS AND ADDITIONAL 5 FT BEYOND AND BACKFILL WITH COMPACTED ENGINEERED FILL. IN PARKING, DRIVE, AND PLAZA AREAS THE UPPER 10" OF THE FINAL SOIL SUBGRADE SHALL BE CONSTRUCTED WITH PROPERLY COMPACTED ENGINEERED FILL OR NATIVE SOILS STABILIZED WITH A LIME ADDITIVE.



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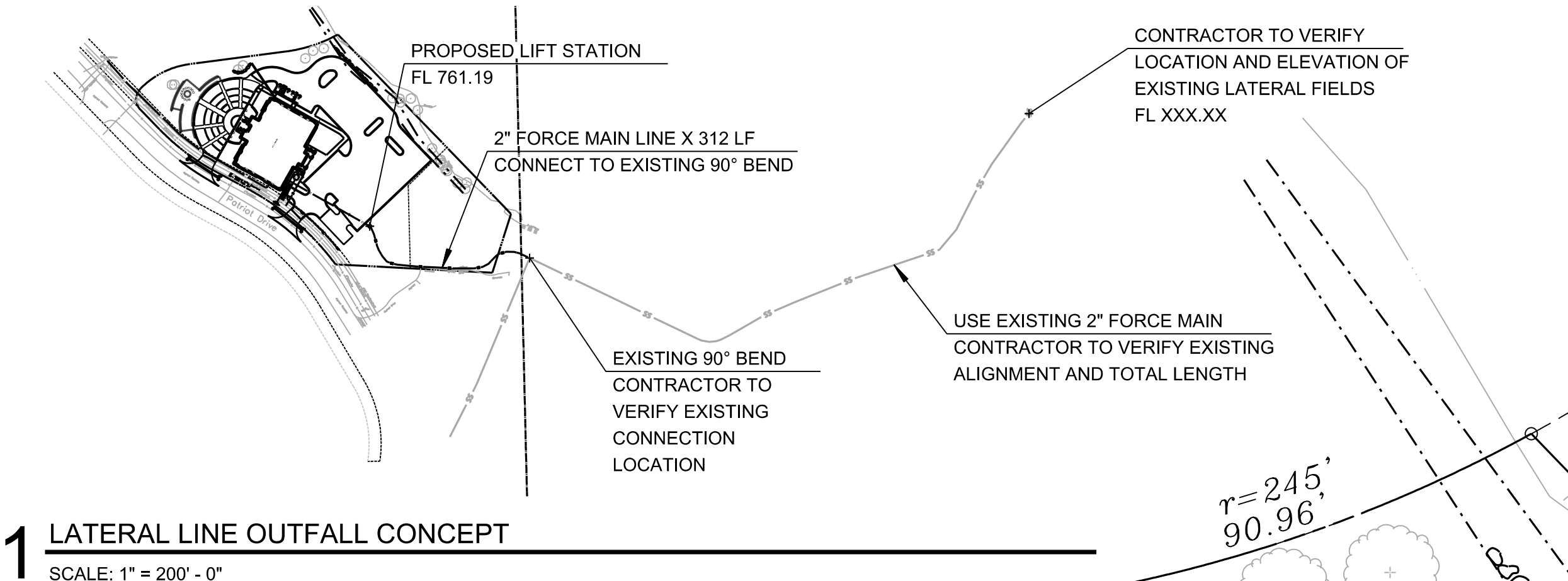
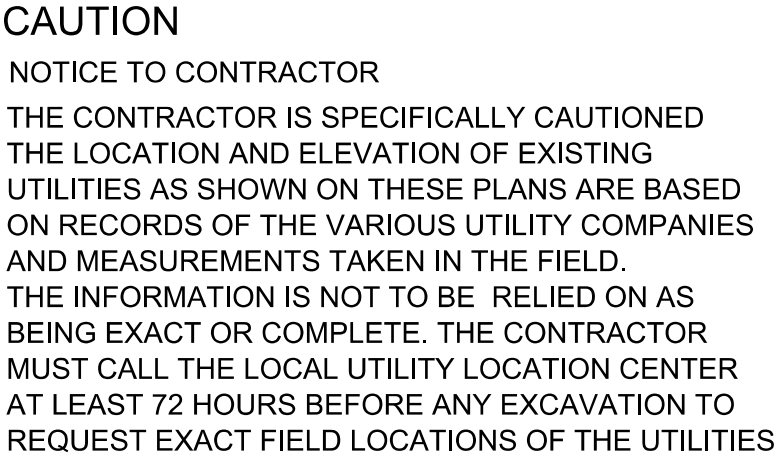
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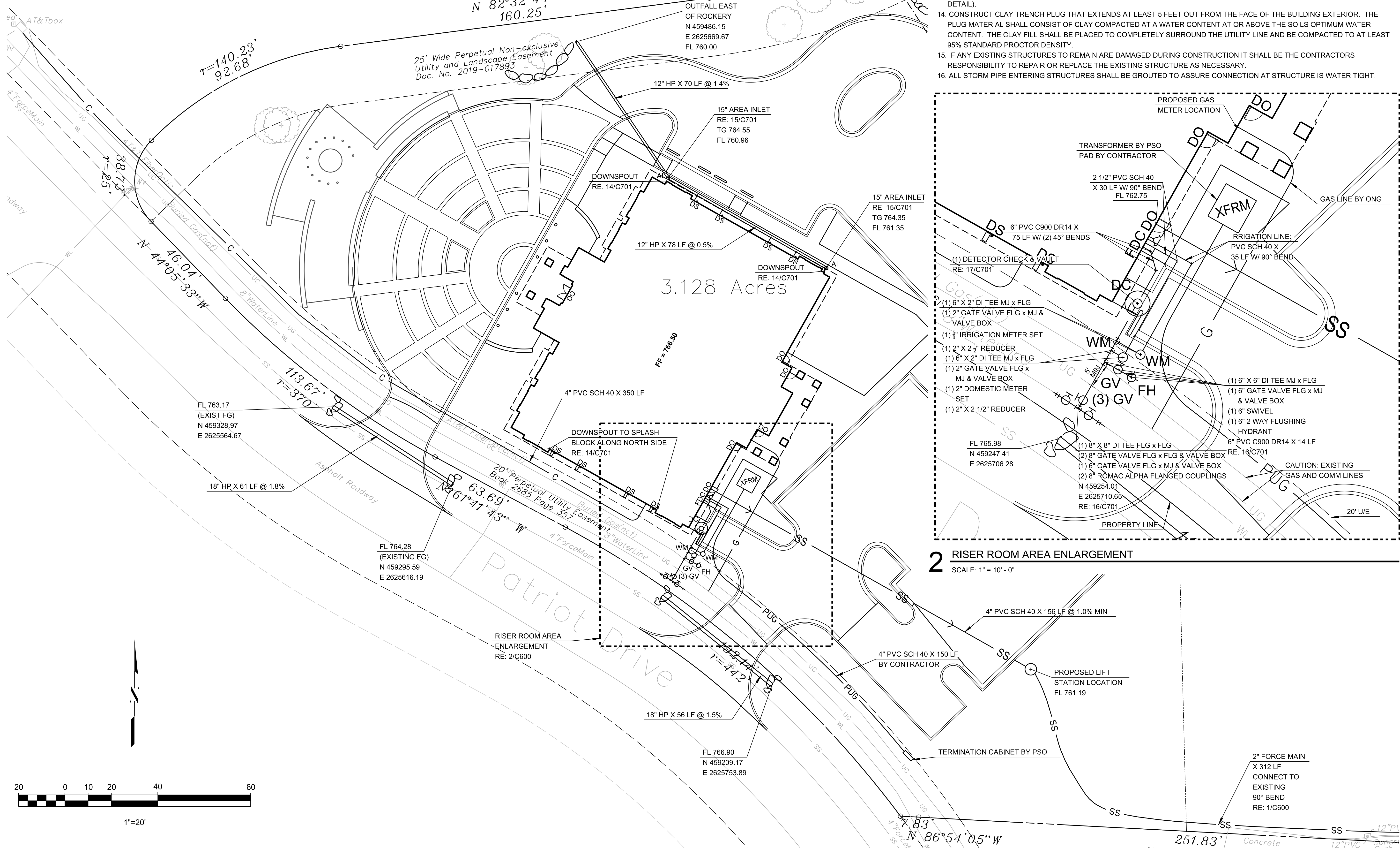
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GRADING PLAN

SHEET NUMBER:
C500

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- ### GENERAL UTILITY NOTES:
1. PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE.
 2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
 3. RESTRAINED JOINTS SHALL BE PROVIDED ON 4" AND LARGER WATER LINES AT ALL BENDS TEES AND FIRE HYDRANTS FOR A MINIMUM 2 JOINTS BOTH SIDES OF FITTING PER AWWA MINIMUM STANDARDS.
 4. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.
 5. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
 6. REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL.
 4. ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE.
 8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
 9. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
 10. CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.
 11. UTILITY TRENCH DETAIL RE: 12/C701. STORM TRENCH DETAIL RE: 13/C701.
 12. REFER TO PLUMB FOR CONTINUATION OF UTILITIES AT BUILDING.
 13. PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).
 14. CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOILS OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.
 15. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
 16. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.



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SHEET NAME:
**UTILITY
PLAN**

SHEET NUMBER:
C600
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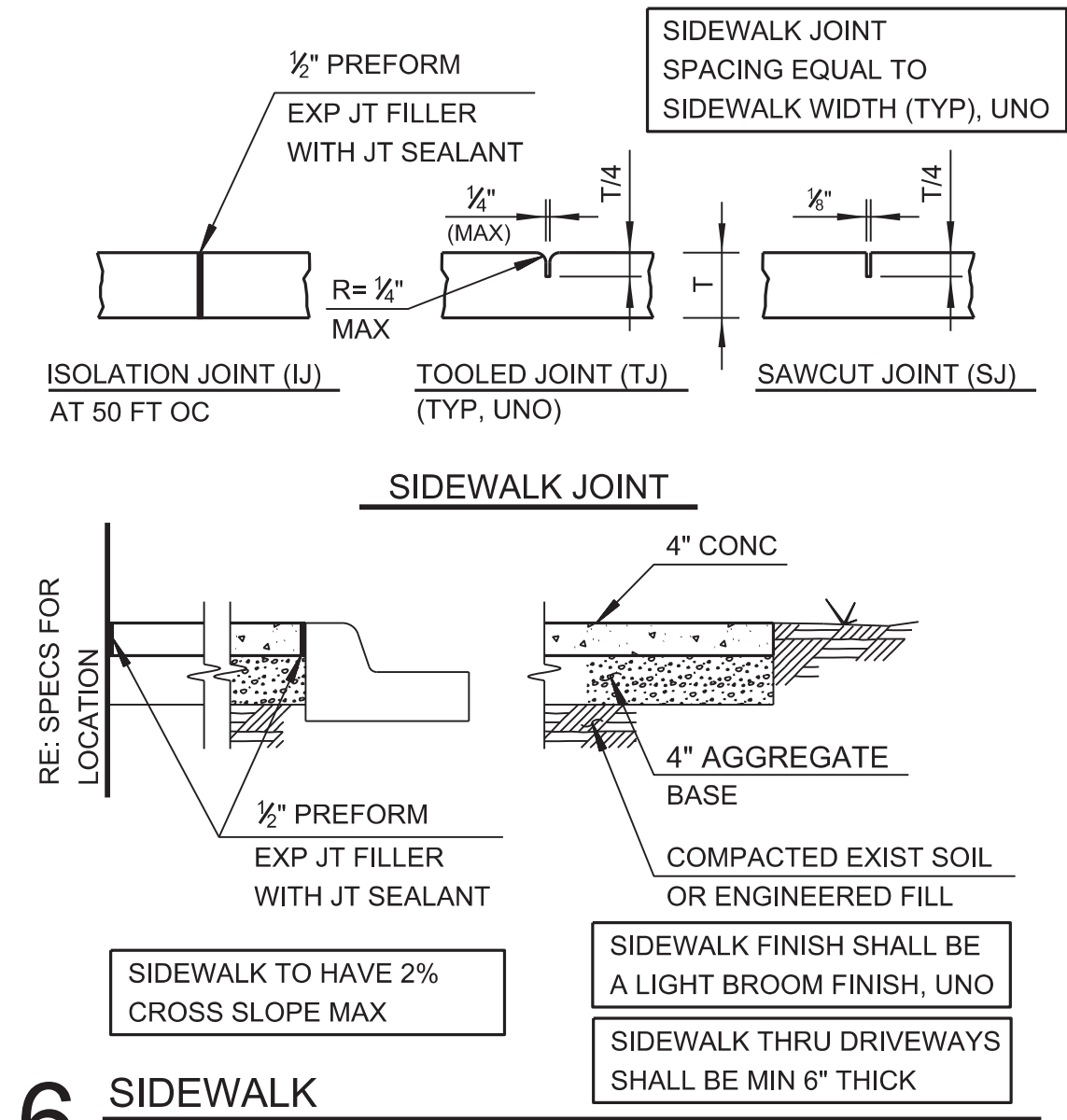
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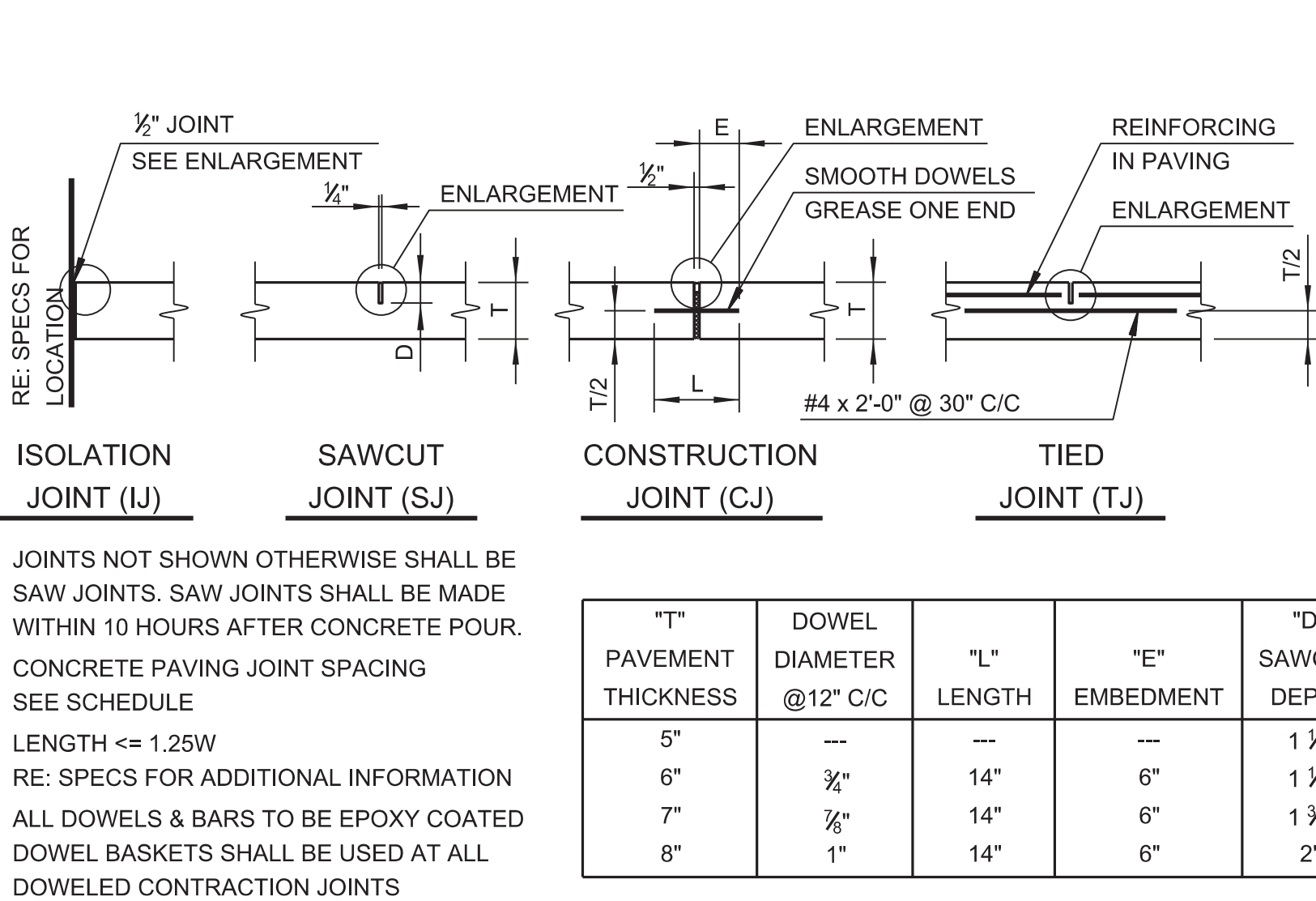


6 SIDEWALK

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2 PAVEMENT DETAIL

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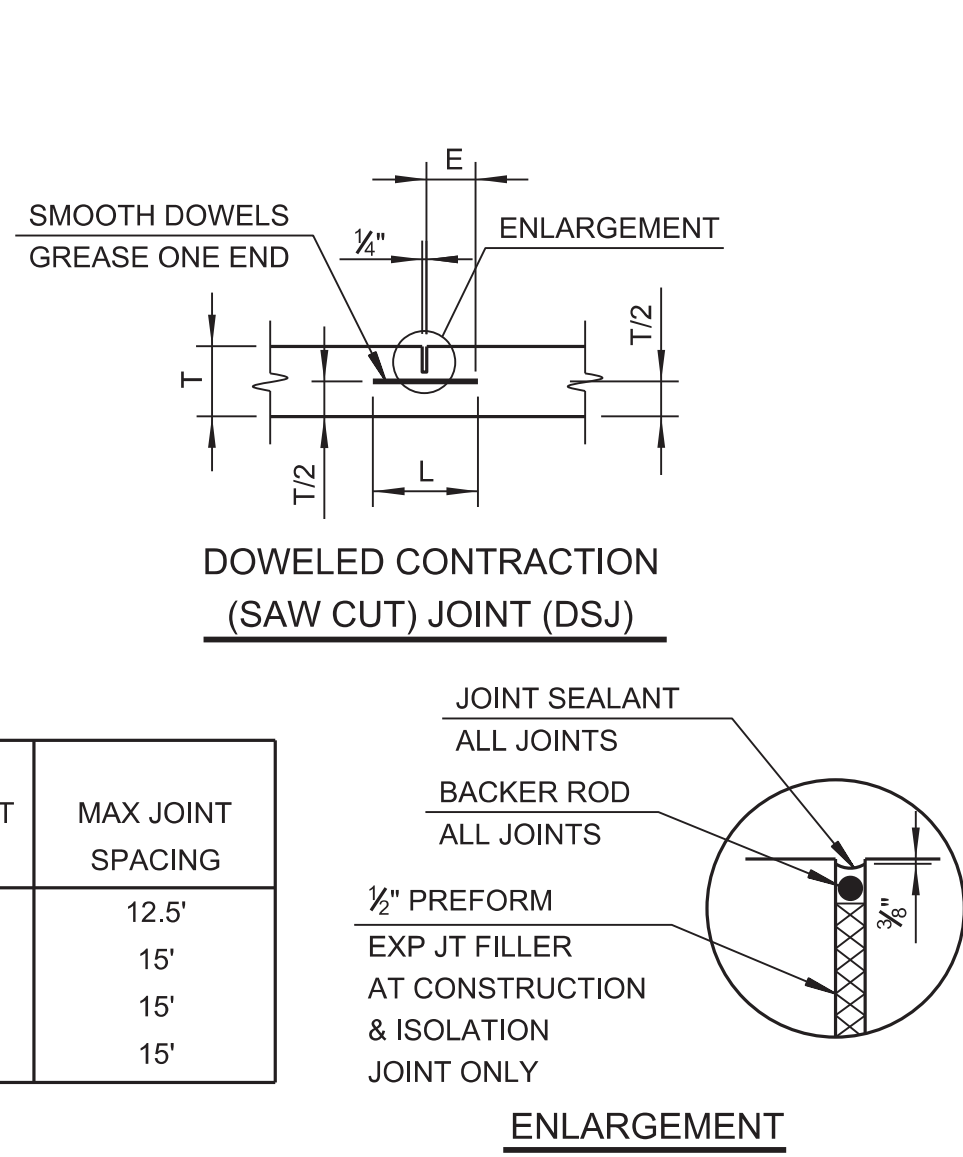


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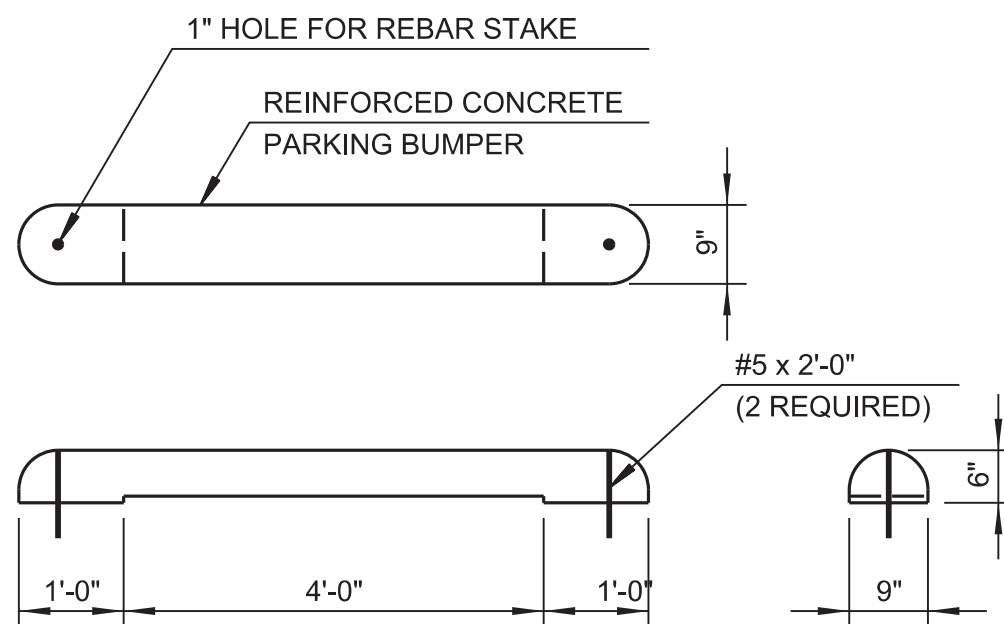
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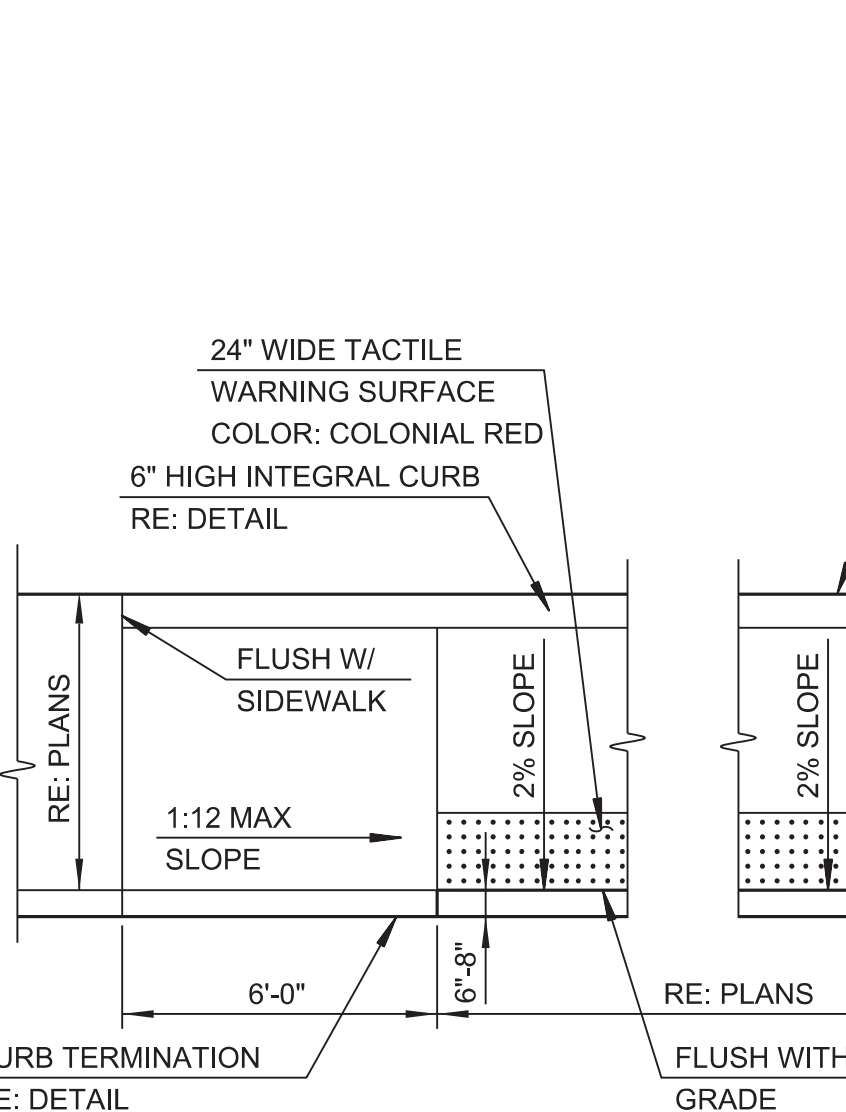
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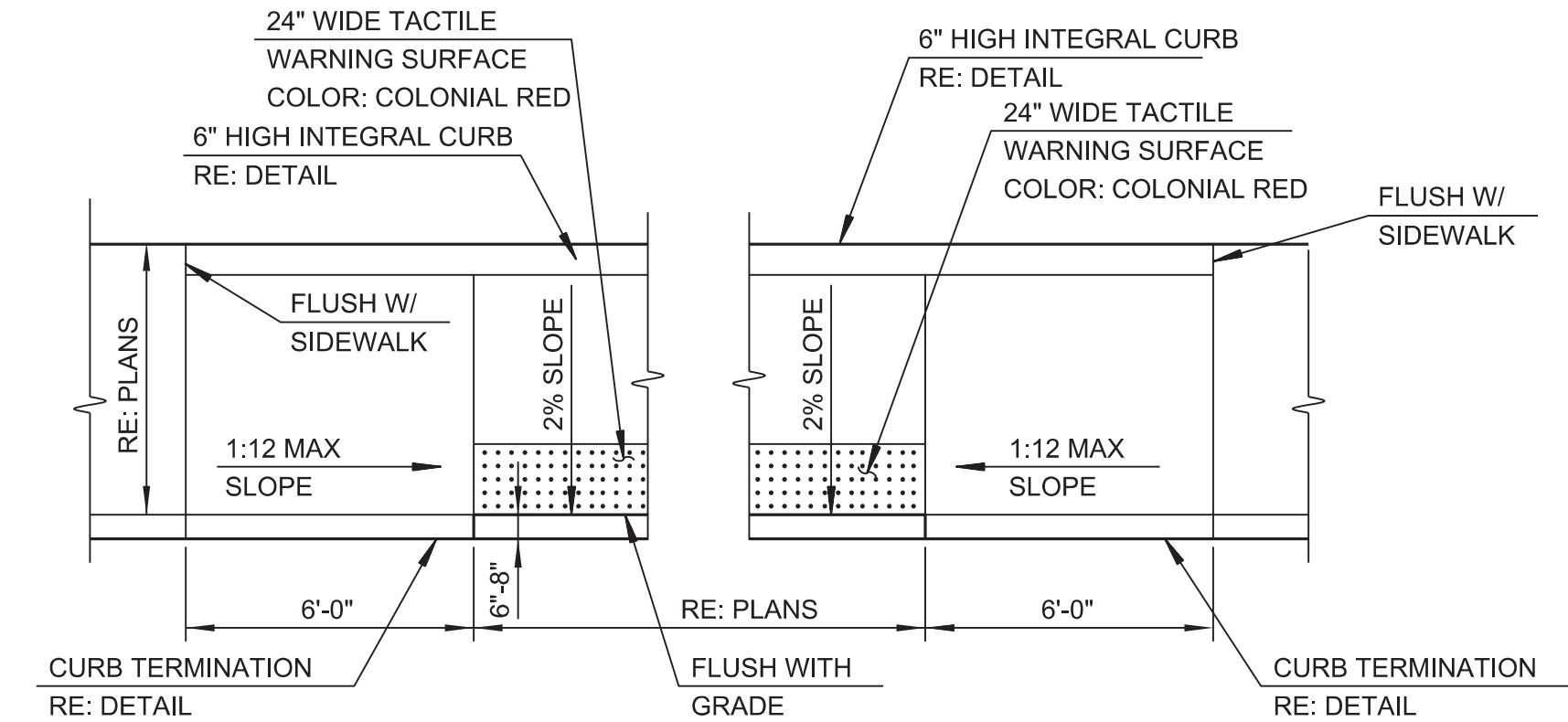
4 CURB AND GUTTER (BARRIER)

SCALE: NTS



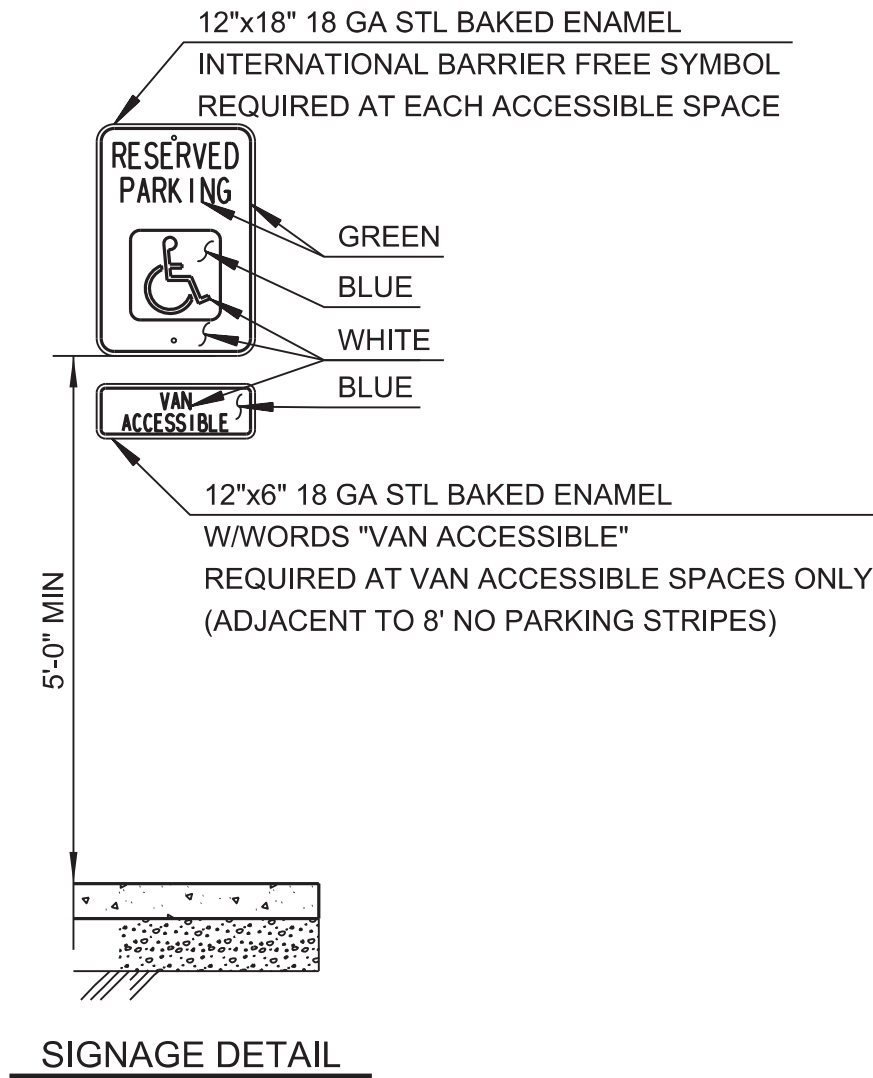
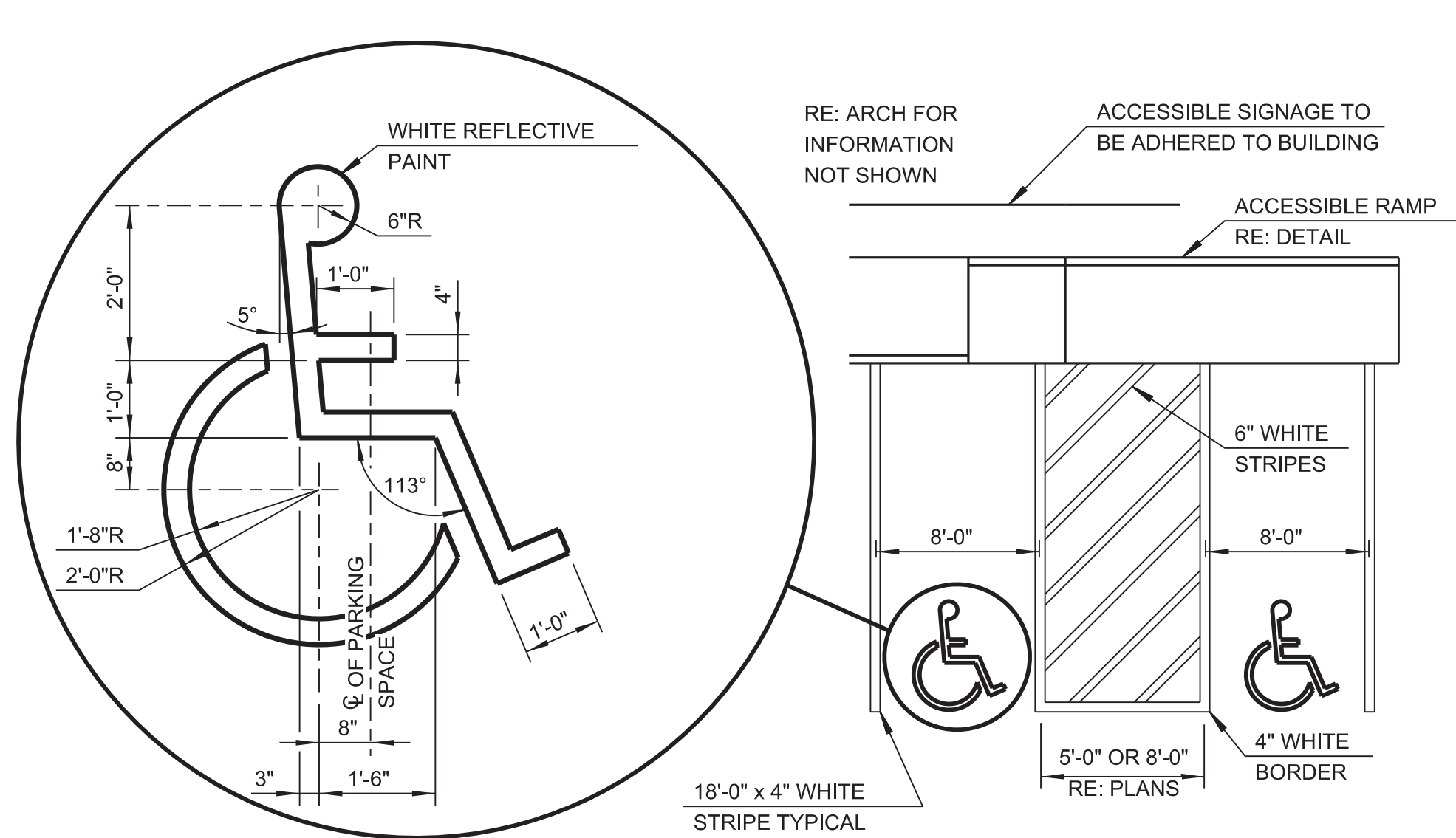
8 CURB RAMP DETAIL

SCALE: NTS



9 ACCESSIBLE STRIPING

SCALE: NTS



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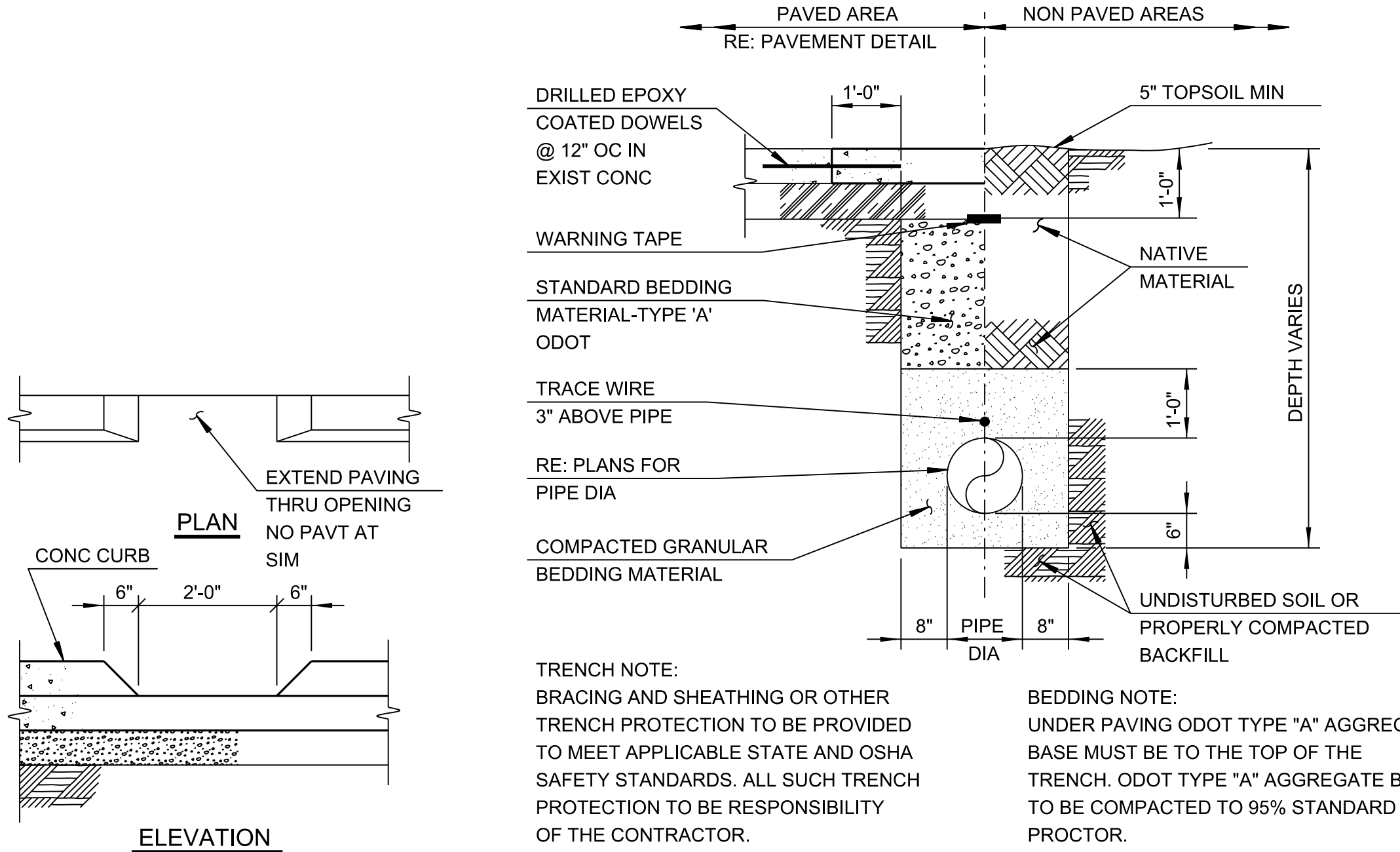
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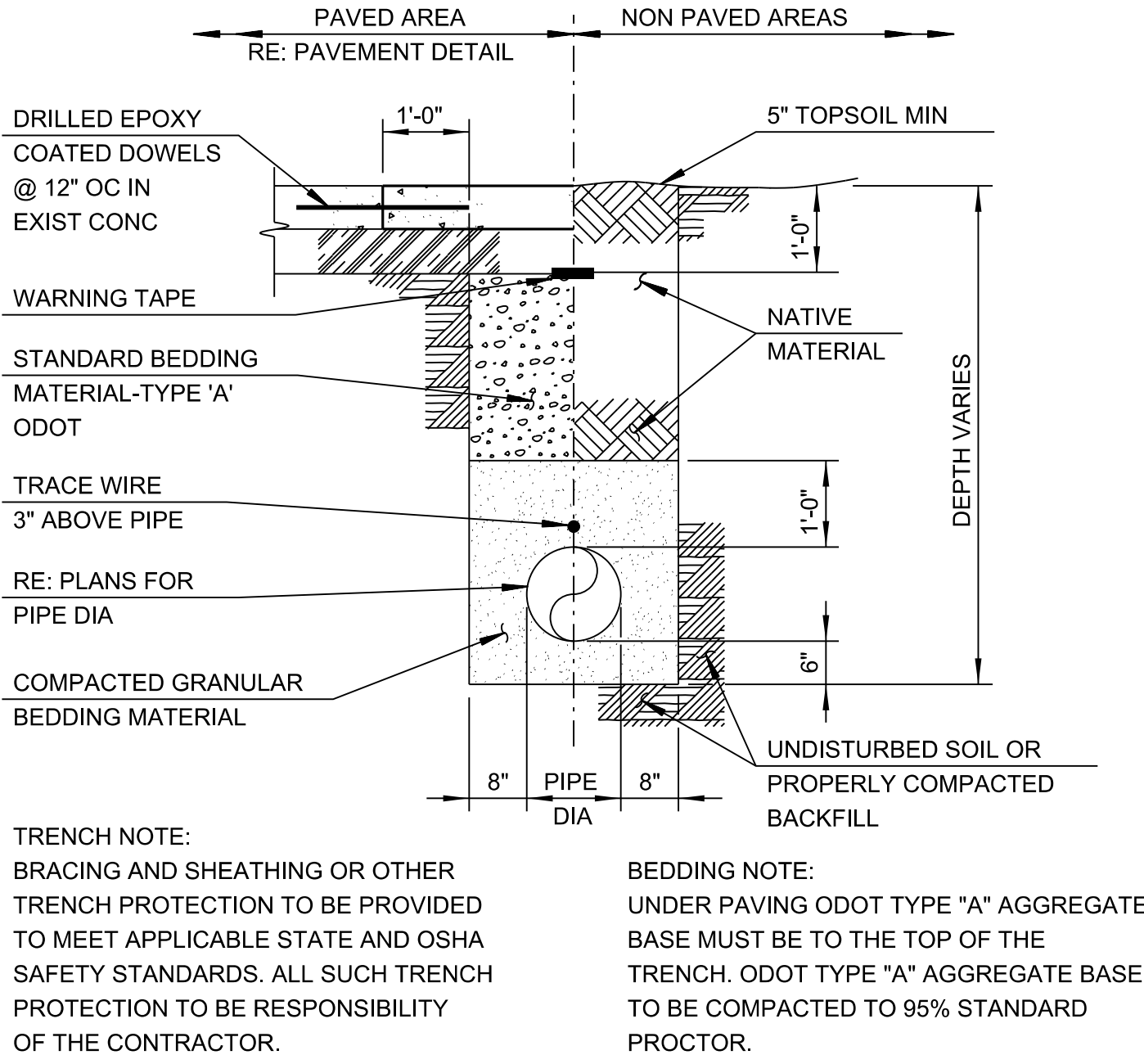
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DETAILS

SHEET NUMBER:
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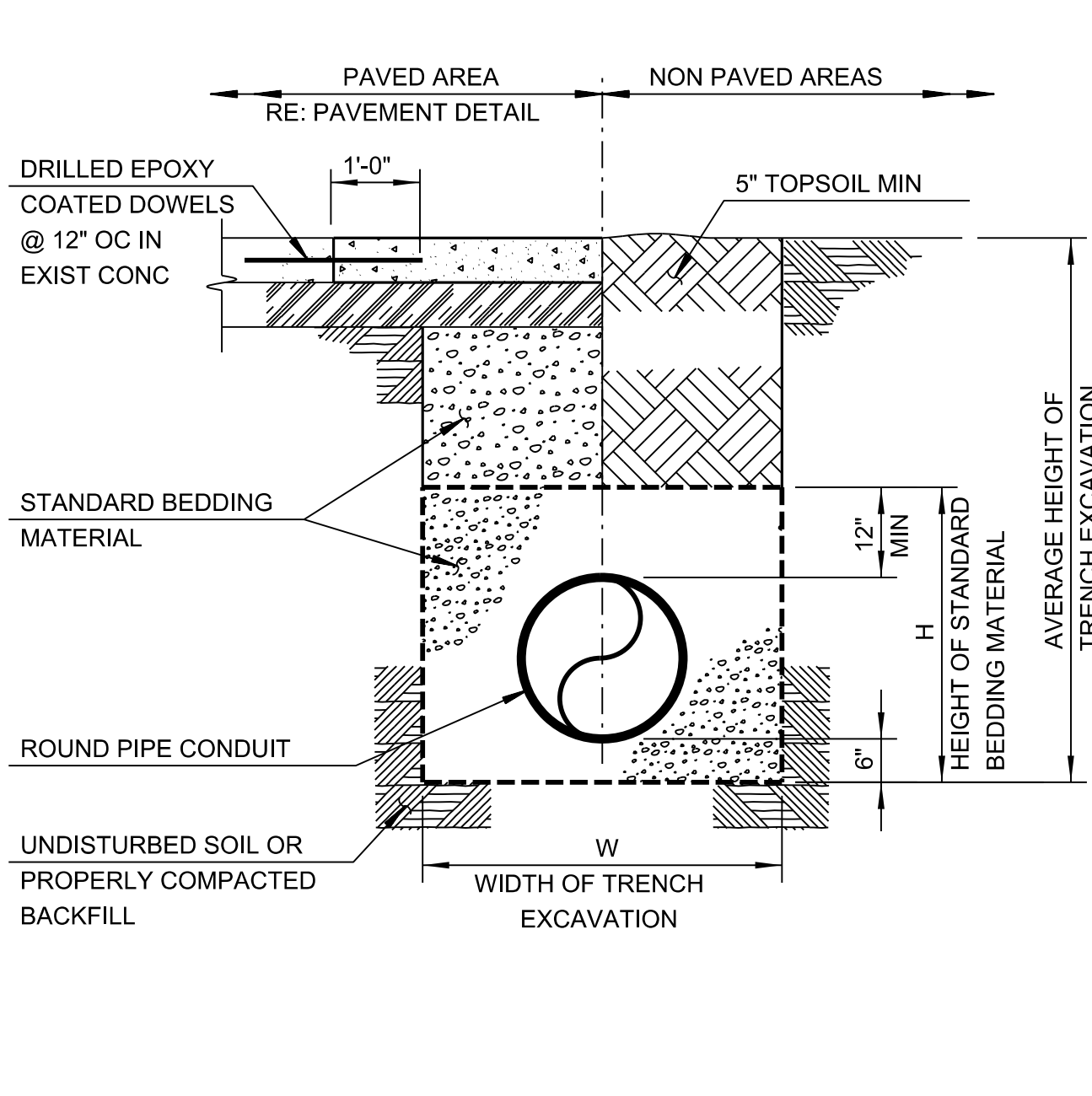
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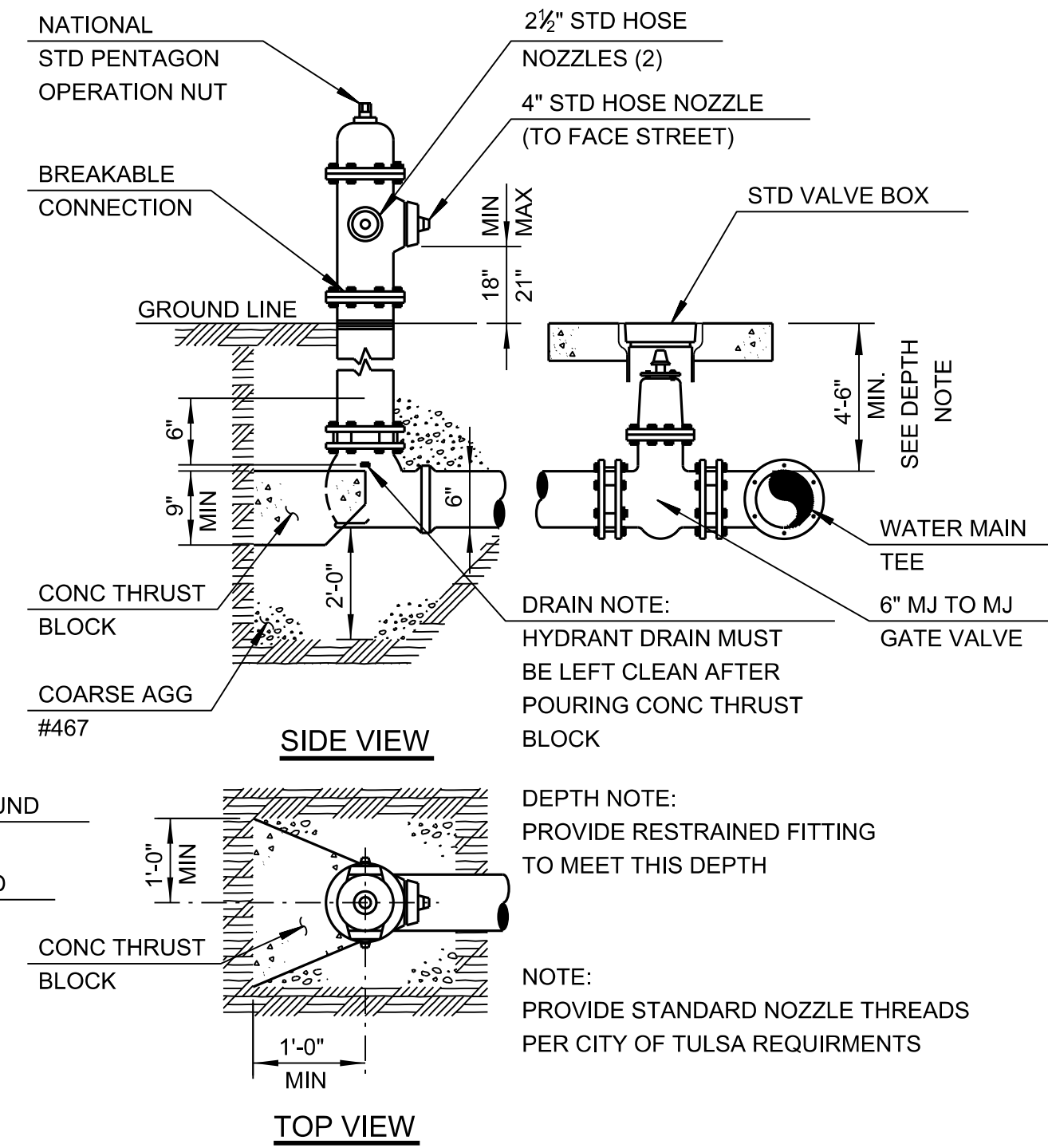
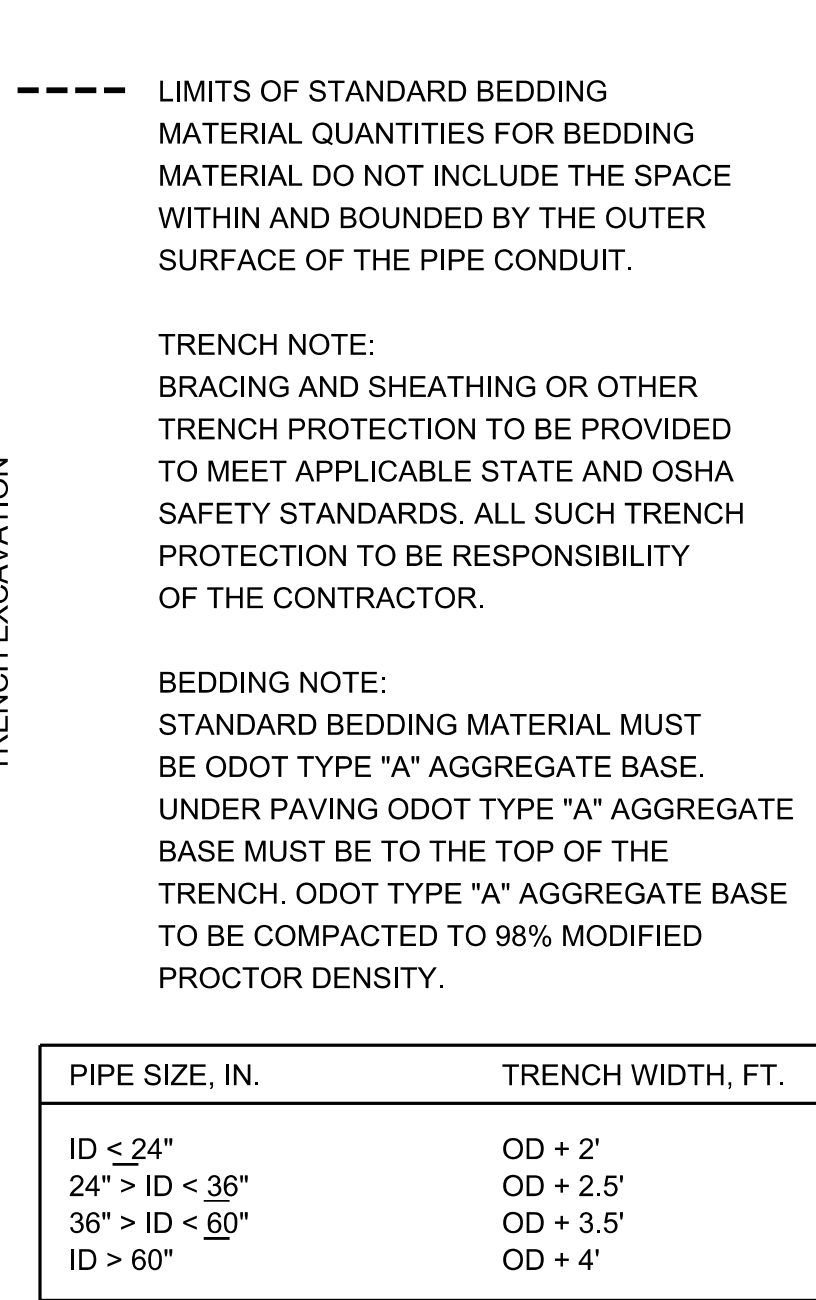
11 CURB CUT DRAIN
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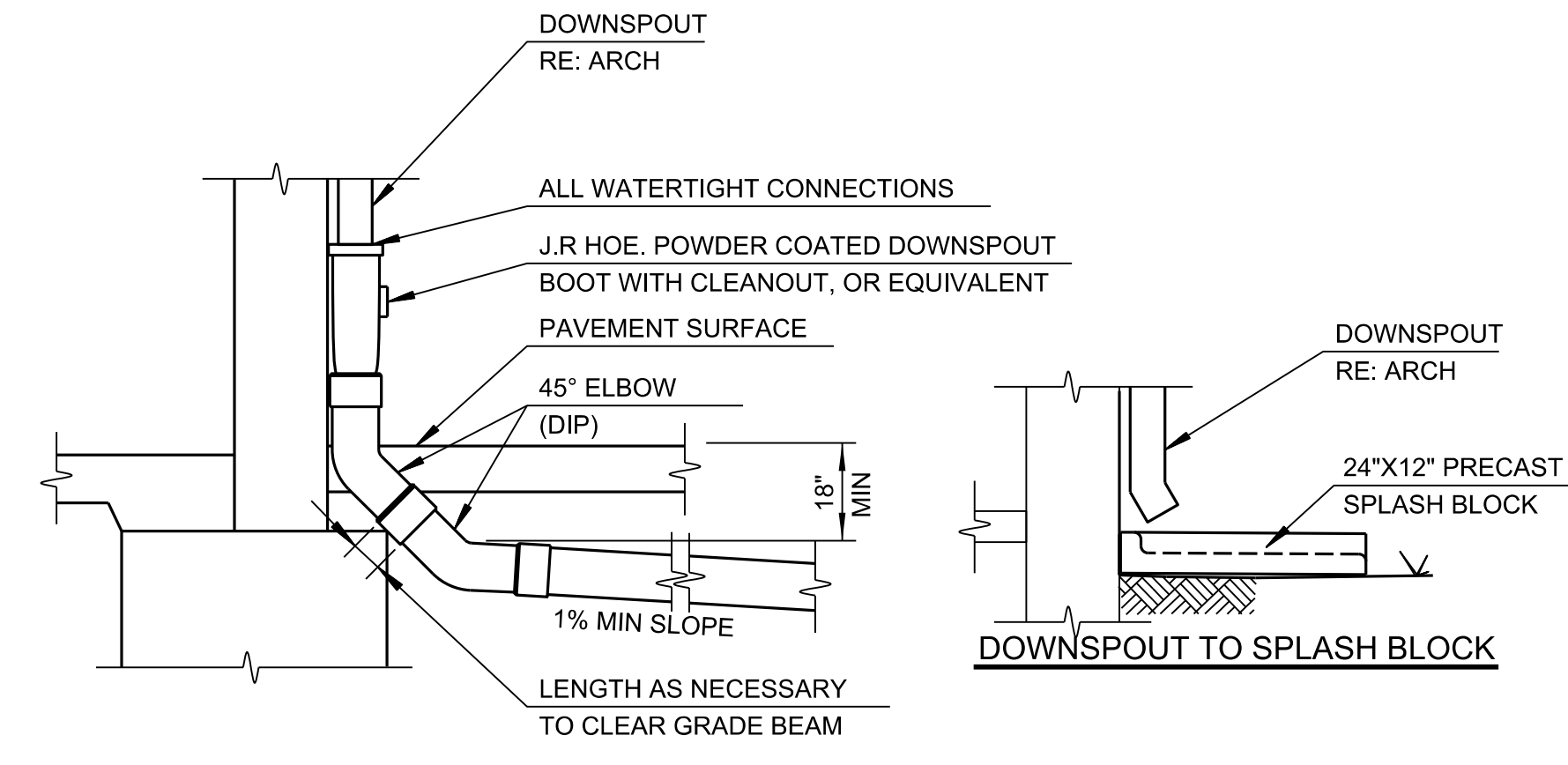
12 PIPE TRENCH-ALL PIPES EXCEPT STORM SEWER
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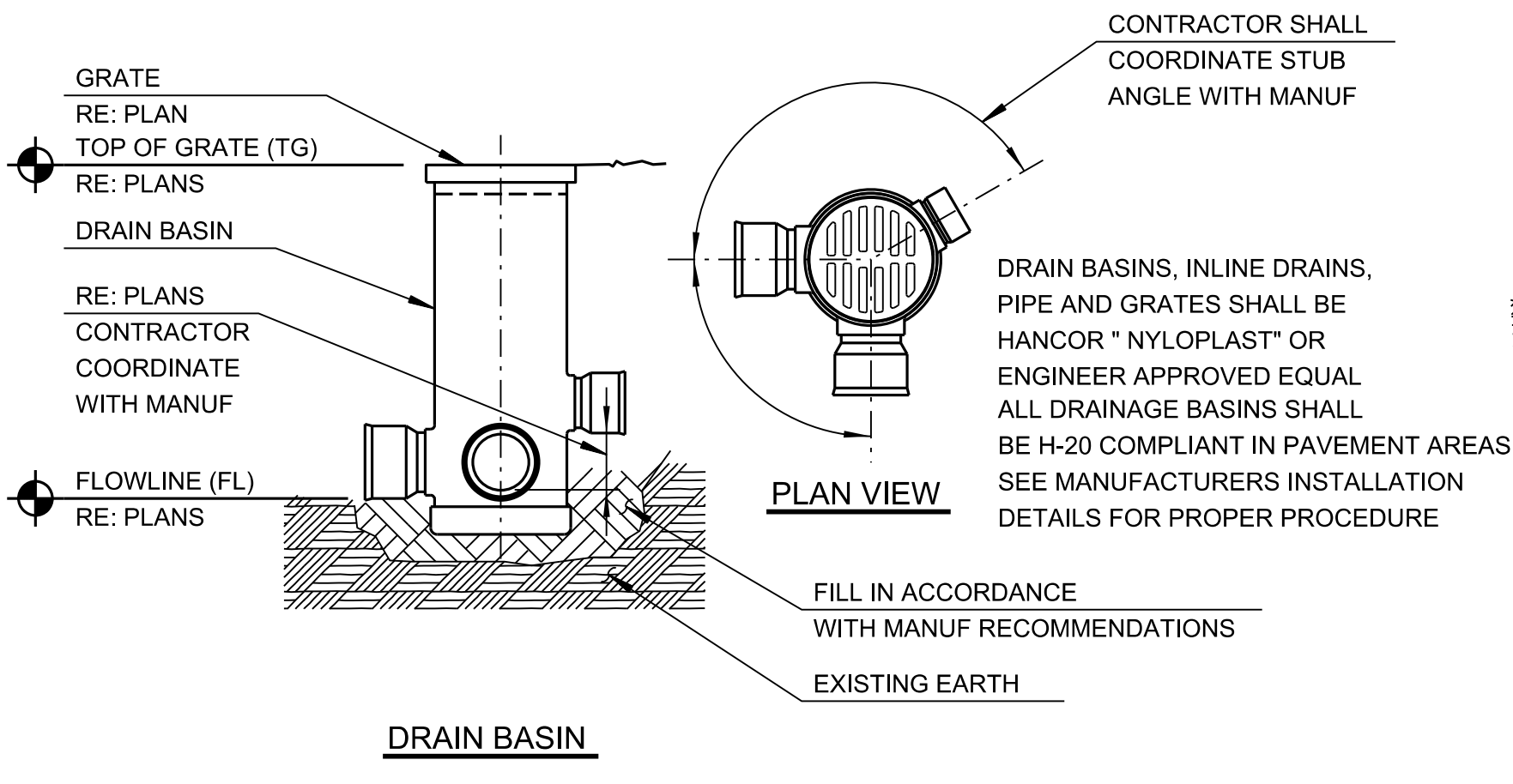
13 STANDARD PIPE BEDDING DETAIL FOR STORM SEWER
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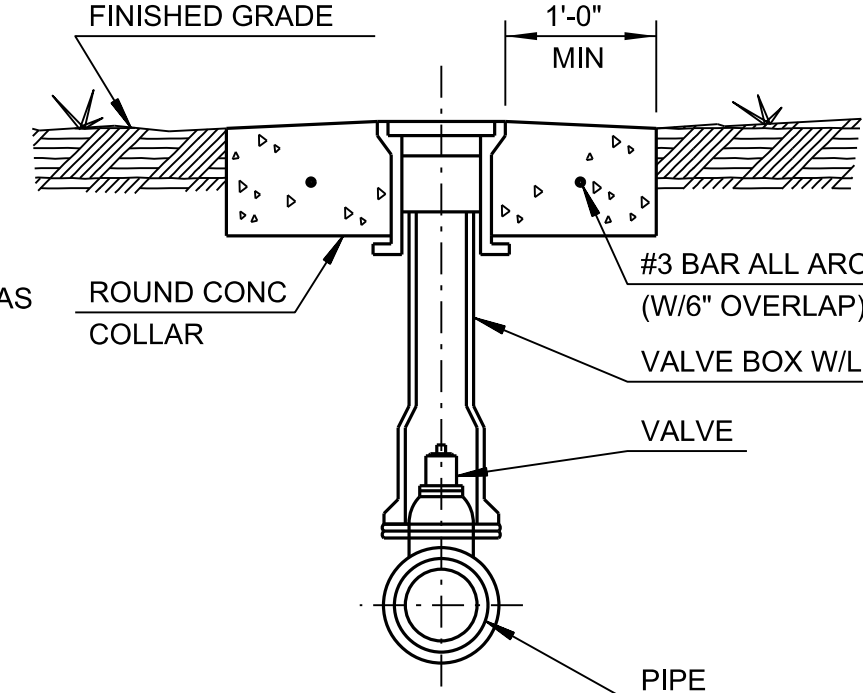
17 FIRE HYDRANT DETAIL
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14 DOWNSPOUT TO STORM DRAIN CONNECTION
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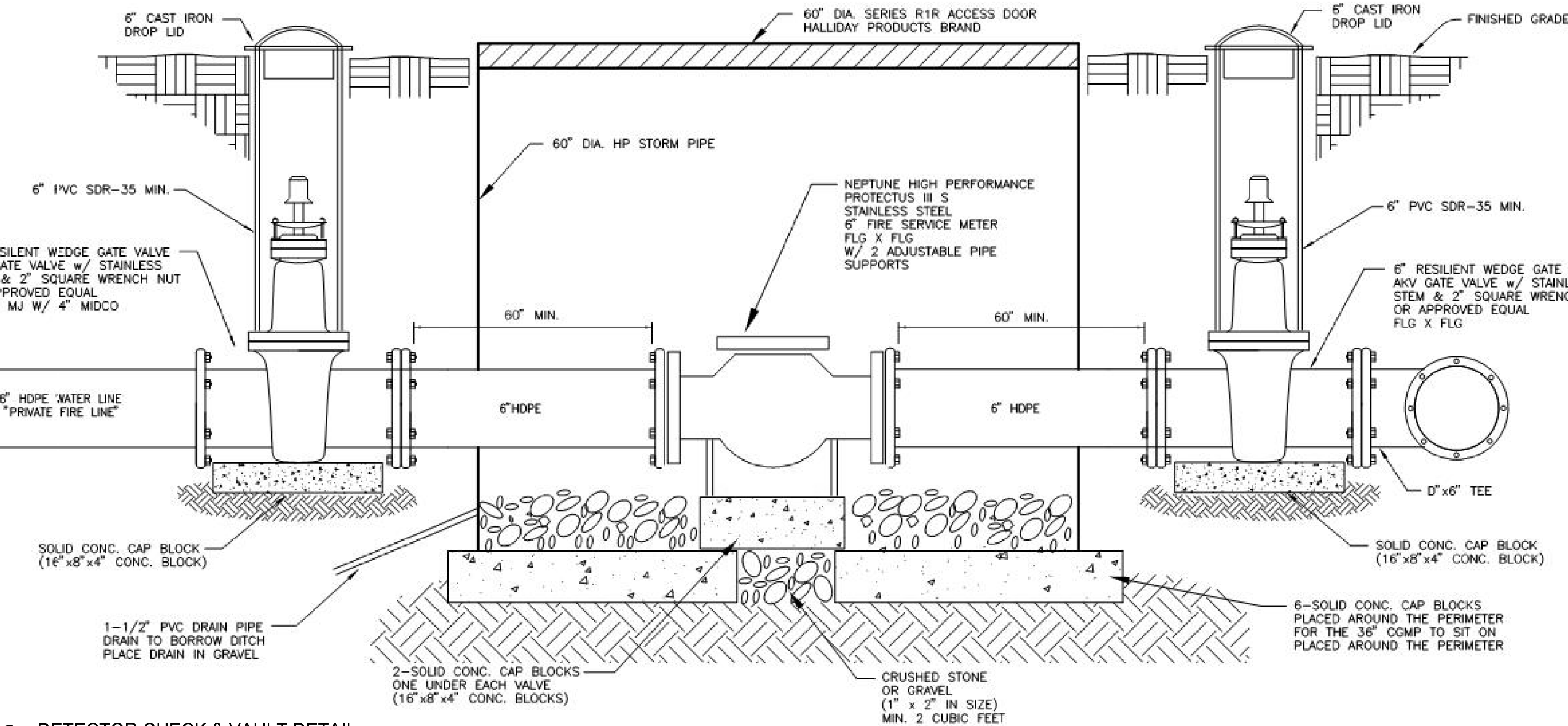


15 INTEGRATED DRAIN BASIN SYSTEM
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16 VALVE BOX DETAIL
SCALE: NTS

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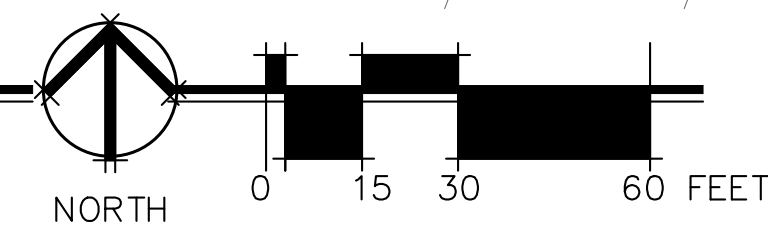
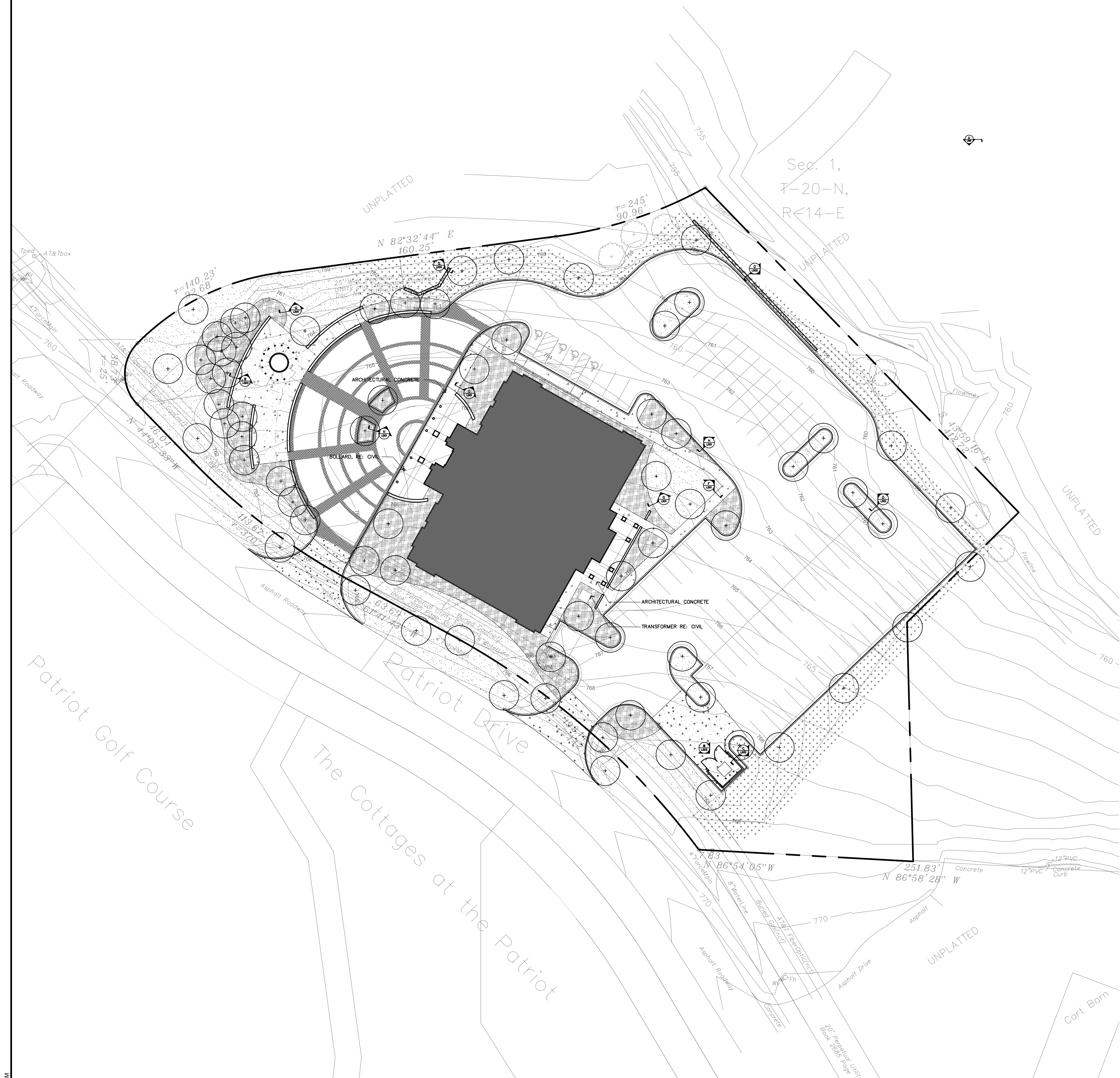


18 DETECTOR CHECK & VAULT DETAIL
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LANDSCAPE PLAN

1"=30'-0"



GENERAL NOTES

1. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT AND NATURE OF THE CONDITIONS WITHIN WHICH WORK MUST BE ACCOMPLISHED.
2. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF UTILITIES PRIOR TO STARTING ANY WORK.
3. MAINTAIN UTILITY SERVICES AND PROTECT THEM AGAINST DAMAGE DURING CONSTRUCTION OPERATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE UTILITIES (OVERHEAD AND BURIED) WHICH MAY OCCUR DUE TO HIS ACTION OR LACK OF ACTION ON THE PROJECT SITE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL SEEK ASSISTANCE OF LOCAL UTILITIES IN LOCATING THE UTILITIES PRIOR TO PERFORMING OPERATIONS IN ANY AREA.
5. CONTRACTOR SHALL VERIFY LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. PLANT SUBSTITUTIONS ARE PERMITTED UPON APPROVAL FROM THE LANDSCAPE ARCHITECT.
7. CONTRACTOR SHALL LAYOUT PLANTS IN THE FIELD AND SHALL HAVE THE LAYOUT APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH THE INSTALLATION.
8. TREES SHALL RECEIVE 4-INCHES MINIMUM OF MULCH; 24-INCH RADIUS AROUND TRUNK.
9. TREES SHALL BE SECURED WITH BELOW-GRADE OR T-POST STABILIZATION SYSTEM - REFERENCE PLANS.
10. SEPARATE INDIVIDUAL MULCHED TREES FROM TURF AREAS WITH A 45-DEGREE, 4- TO 6-INCH DEEP, SHOVEL-CUT EDGE.
11. CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE WORK AND PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF THE WORK BY THE OWNER.
12. PLANT MATERIAL WHICH DIES DURING THE ONE YEAR GUARANTEE PERIOD SHALL BE REPLACED BY THE CONTRACTOR DURING NORMAL PLANTING SEASONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PLANTS UNTIL COMPLETION OF THE PROJECT AND ACCEPTANCE BY THE OWNER.
14. PLANT NAMES ON THE PLANT LIST CONFORM TO THE STANDARDIZED PLANT NAMES PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE OR TO NAMES GENERALLY ACCEPTED IN THE NURSERY TRADE.
15. PLANT MATERIAL SHALL BE SPECIMEN QUALITY STOCK AS DETERMINED IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, FREE OF PLANT DISEASES AND PEST, OF TYPICAL GROWTH OF THE SPECIES AND HAVING A HEALTHY, NORMAL ROOT SYSTEM.
16. SIZES INDICATED ON THE PLANT LIST ARE THE MINIMUM ACCEPTABLE SIZE.
17. PLANTS SHALL NOT BE PRUNED PRIOR TO DELIVERY TO THE SITE OR AFTER INSTALLATION EXCEPT FOR THOSE BRANCHES THAT HAVE BEEN DAMAGED IN SOME WAY.
18. PLANTS SHALL NOT HAVE NAME TAGS REMOVED PRIOR TO FINAL INSPECTION.
19. FINE GRADE AND SOD AREAS DISTURBED BY CONSTRUCTION.
20. TOPSOIL DEPTH IN SOD AREAS SHALL BE 6-INCHES, MINIMUM.
21. SOILS COMPACTED MORE THAN 85% STANDARD PROCTOR DENSITY AS A RESULT OF CONSTRUCTION OPERATIONS WITHIN EXISTING TREE DRIPLINES AND LANDSCAPE AREAS SHALL BE RESTORED TO A CONDITION CONDUCTIVE TO PROMOTE LONG TERM PLANT HEALTH. RESTORATION METHOD(S) SHALL BE AS RECOMMENDED BY A CERTIFIED ARBORIST, AND REMEDIATED AT NO COST TO THE OWNER.
22. REPLACE DAMAGED LANDSCAPE, OR LANDSCAPE WHICH DIES AS A RESULT OF CONSTRUCTION OPERATIONS, WITH EQUIVALENT LANDSCAPE AT NO COST TO THE OWNER.
23. MATURE TREES TO REMAIN REQUIRING REPLACEMENT AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE APPRAISED BY A PROFESSIONAL APPRAISER. THE VALUE ASSIGNED SHALL BE CREDITED TO THE OWNER BY THE CONTRACTOR.
24. PLANTING FIELD CONDITIONS
 - A. DO NOT INSTALL PLANT LIFE WHEN AMBIENT TEMPERATURES MAY DROP BELOW 35 DEGREES F OR RISE ABOVE 90 DEGREES F.
 - B. DO NOT INSTALL PLANT LIFE WHEN WIND VELOCITY EXCEEDS 30 MPH.

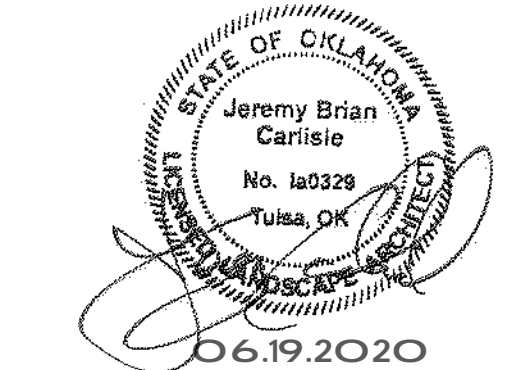
STONE CANYON LANDSCAPE GUIDELINES

1. SOD: FRONT, BACK AND SIDE YARDS OF EACH LOT SHALL BE FULLY SODDED, INCLUDING BAR DITCHES (IF ANY), WITHIN ONE MONTH (30 DAYS) OF A CERTIFICATE OF OCCUPANCY BEING ISSUED FOR THE HOME.
2. TREES: THE FINAL COMBINATION OF PRE-EXISTING AND NEW PLANTED TREES SHALL BE:
 - 2.1 FRONT YARD - EXCEPT FOR MUNICIPAL LOTS, A MINIMUM OF THREE (3) TREES OF AT LEAST 2" CALIPER; FOR MUNICIPAL LOTS, A MINIMUM OF TWO (2) TREES OF AT LEAST 2" CALIPER.
 - 2.2 BACK YARD - A MINIMUM OF TWO (2) TREES OF AT LEAST 2" CALIPER. ALL MANDATORY NEW PLANTED TREES ARE TO BE A MINIMUM OF 2" CALIPER, AND CHOSEN FROM THE APPROVED TREE LIST. ANY ADDITIONAL DESIRED TREES MAY BE ANY SIZE OF HOMEOWNER'S CHOICE, BUT ALSO CHOSEN FROM THE APPROVED TREE LIST.
3. PLANTINGS: A GROUPING OF NATIVE AND ORNAMENTAL FAUNA CONTAINING SPECIES THAT ARE COMPATIBLE WITH THE REGION AND ADD A PLEASING AESTHETIC TO LANDSCAPING.
4. FENCING: ALL FENCES MUST BE APPROVED PRIOR TO INSTALLATION. FENCING MATERIAL MAY CONSIST OF POST & RAIL (THREE RAIL), MASONRY, IRON AND PLANTING SCREENS. WOOD PRIVACY FENCE SHALL BE ALLOWED IN SUBDIVISIONS ANNEXED INTO THE CITY OF OWASSO BUT ONLY ALONG COMMON PROPERTY LOT LINES. NO FENCE SHALL BE ERRECTED, PLACED OR ALTERED ON ANY LOT CLOSER TO ANY STREET THAN THE FRONT OF THE MAIN STRUCTURE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECTURAL COMMITTEE. ALL FENCING MUST MEET THE REQUIREMENTS OF THE ARCHITECTURAL GUIDELINES AS DEFINED IN THE MASTER DECLARATION AND APPROVED BY THE ARCHITECTURAL COMMITTEE. NO FENCES SHALL BE CONSTRUCTED UPON WALKWAYS OR ACCESS EASEMENTS, WHICH WOULD IMPAIR OR HINDER THE INTENDED USE THEREOF. PLACEMENT OF FENCING SHALL BE AS SPECIFIED IN THE COVENANTS, CONDITIONS AND RESTRICTIONS FOR THE PARTICULAR SUBDIVISION.

LEGEND/ PLANT LIST

	SOD		LANDSCAPE BED:
	SEED MIX		CONCRETE SIDEWALK
	PROPOSED TREE 2" CALIPER MINIMUM		EXISTING TREE TO REMAIN (PROTECT DURING CONSTRUCTION)
	PROPERTY LINE		

GH2 ARCHITECTS



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LANDSCAPE PLAN

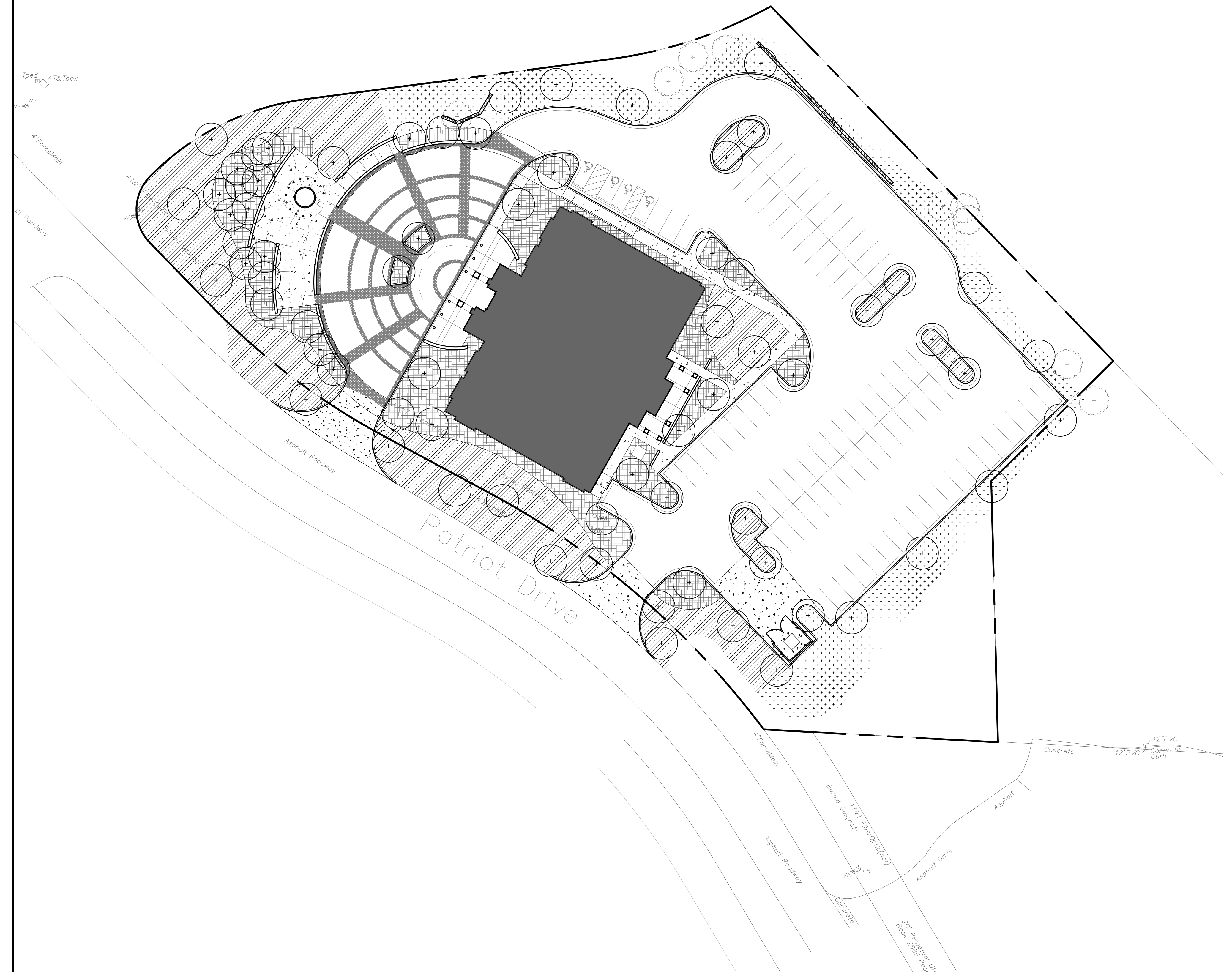
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IRRIGATION KEY PLAN

1"=30'-0"



IRRIGATION NOTES

- AREAS TO BE IRRIGATED:
 - LAWN (SOD) AREAS - SPRINKLERS
 - LANDSCAPE BED - DRIP IRRIGATION, BELOW GRADE
 - NEW TREES - DRIP IRRIGATION
- CONTRACTOR SHALL PROVIDE COMPLETE IRRIGATION SYSTEM DESIGNED FOR 100 PERCENT COVERAGE. IRRIGATION ZONE CONTROL SHALL BE AUTOMATIC OPERATION WITH CONTROLLER AND AUTOMATIC CONTROL VALVES.
- COORDINATE NEW IRRIGATION SYSTEM WITH SITE UTILITIES.
- REFERENCE CIVIL FOR IRRIGATION WATER METER LOCATION AND SIZE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE IRRIGATION SYSTEM.
- CONTRACTOR SHALL VERIFY THE MINIMUM DYNAMIC WATER PRESSURE AVAILABLE.
- CONTRACTOR SHALL IMMEDIATELY CONSULT WITH THE OWNER'S REPRESENTATIVE WHENEVER THERE IS A CONFLICT BETWEEN ANY OF THE ABOVE STATED ITEMS.
- FINE GRADE AND SOD AREAS DISTURBED BY CONSTRUCTION, BASED ON LOCATION.
- IRRIGATION WATER METER LOCATED ADJACENT TO BUILDING WATER METER (RE: CIVIL) WITH BACKFLOW PREVENTER.
- HEATED BACKFLOW ENCLOSURE BY AQUA SHIELD.
 - MILL FINISHED MARINE GRADE ALUMINUM SIZED TO ACCOMMODATE BACKFLOW PREVENTER.
 - PROVIDE PROVISIONS FOR LOCKING AND OVERSIZED DRAINS AT ENCLOSURE GRADE.
 - STRUCTURALLY RIGID INSULATION, POLYISOCYANURATE, 1.5" THICK MINIMUM; FREEZE PROTECTION -30 DEGREES FAHRENHEIT.
- MOUNT PER MANUFACTURER'S INSTRUCTIONS ON CONCRETE SLAB.
- INCLUDE 120 VAC 20-AMP RECEPTACLE ON AN INDEPENDENT CIRCUIT. INCLUDE WIRING AND CONNECTION TO ELECTRICAL PANEL LOCATED IN BUILDING.
- IRRIGATION CONTROLLER LOCATED WITHIN BUILDING. COORDINATE SPECIFIC LOCATION WITH OWNER.

LEGEND

	SOD - PERMANENT SPRINKLER IRRIGATION		SEED MIX - TEMPORARY IRRIGATION TO ESTABLISH GRASS
	LANDSCAPE BED - DRIP IRRIGATION		

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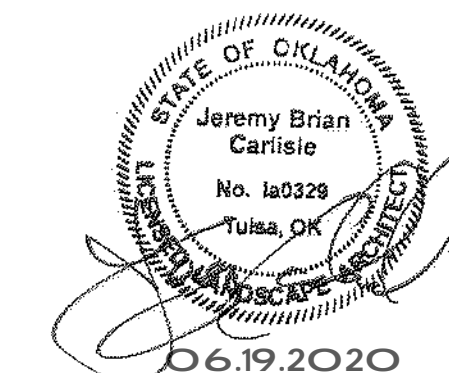
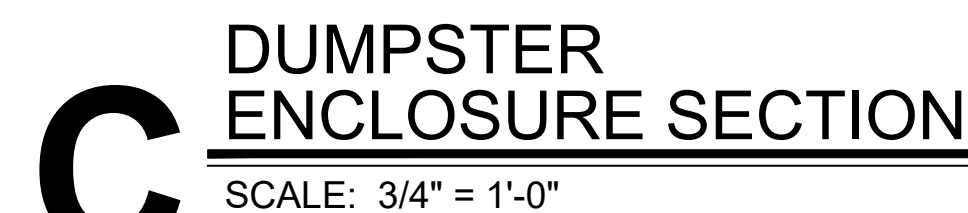
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NO.	DESCRIPTION	DATE

SHEET NAME:
**IRRIGATION
KEY PLAN**

SHEET NUMBER:
L102

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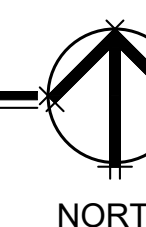
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DETAILS

SHEET NUMBER

L502

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PARTITION INFORMATION

PARTITION TYPES

- 1A > 3 5/8" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1F > 6" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1M > 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49, 1-HOUR FIRE RATED
- 1N > 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49,

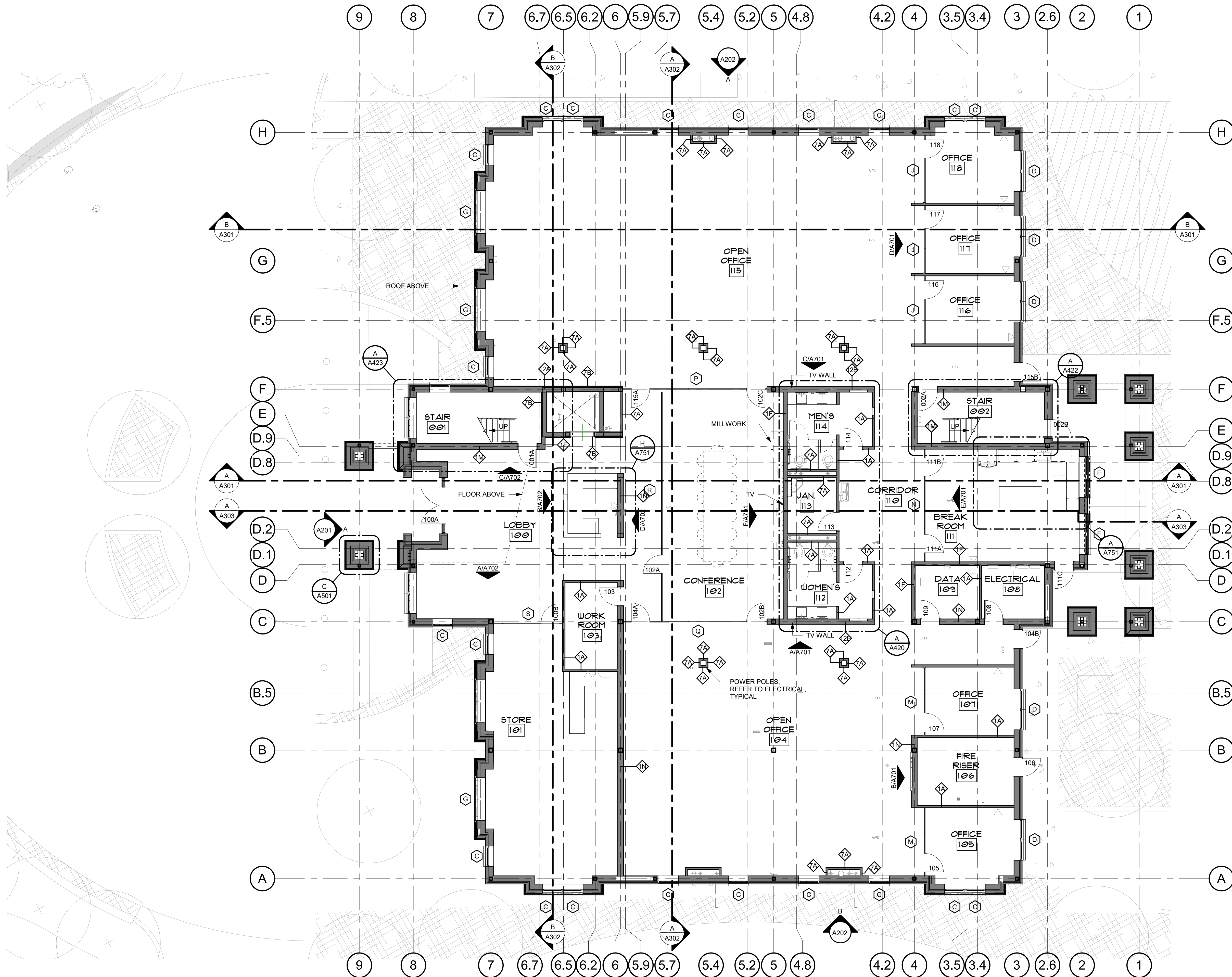
- 7A > 1 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 7B > 3 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 12A > 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49, 1-HOUR FIRE RATED
- 12B > 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49

PARTITION LEGEND

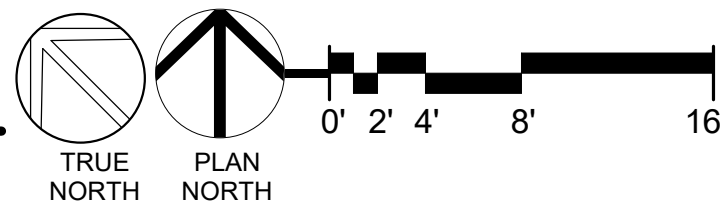
- STANDARD PARTITION
- 1-HOUR FIRE RATED PARTITION

FLOOR PLAN GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD UNLESS NOTED OTHERWISE.
- ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH UNLESS NOTED OTHERWISE.
- UNLESS DIMENSIONED OTHERWISE, PARTITIONS ON GRIDLINES WILL BE ALIGNED TO CENTERLINE OR FACE OF STUD.
- REFER TO A610 FOR DOOR SCHEDULE AND DETAILS.
- REFER TO ID101 FOR FINISH INFORMATION, SCHEDULES, AND DETAILS.
- REFER TO A751 FOR CASEWORK DETAILS AND INFORMATION.
- REFER TO A201 FOR EXTERIOR ELEVATIONS
- REFER TO ID101 FOR FLOOR FINISHES.



A FIRST FLOOR - REFERENCE PLAN
1/8" = 1'-0"



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**FIRST FLOOR -
REFERENCE PLAN**

SHEET NUMBER:

A101

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PARTITION INFORMATION

PARTITION TYPES

- 1A 3 5/8" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1F 6" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1M 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49, 1-HOUR FIRE RATED
- 1N 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49,

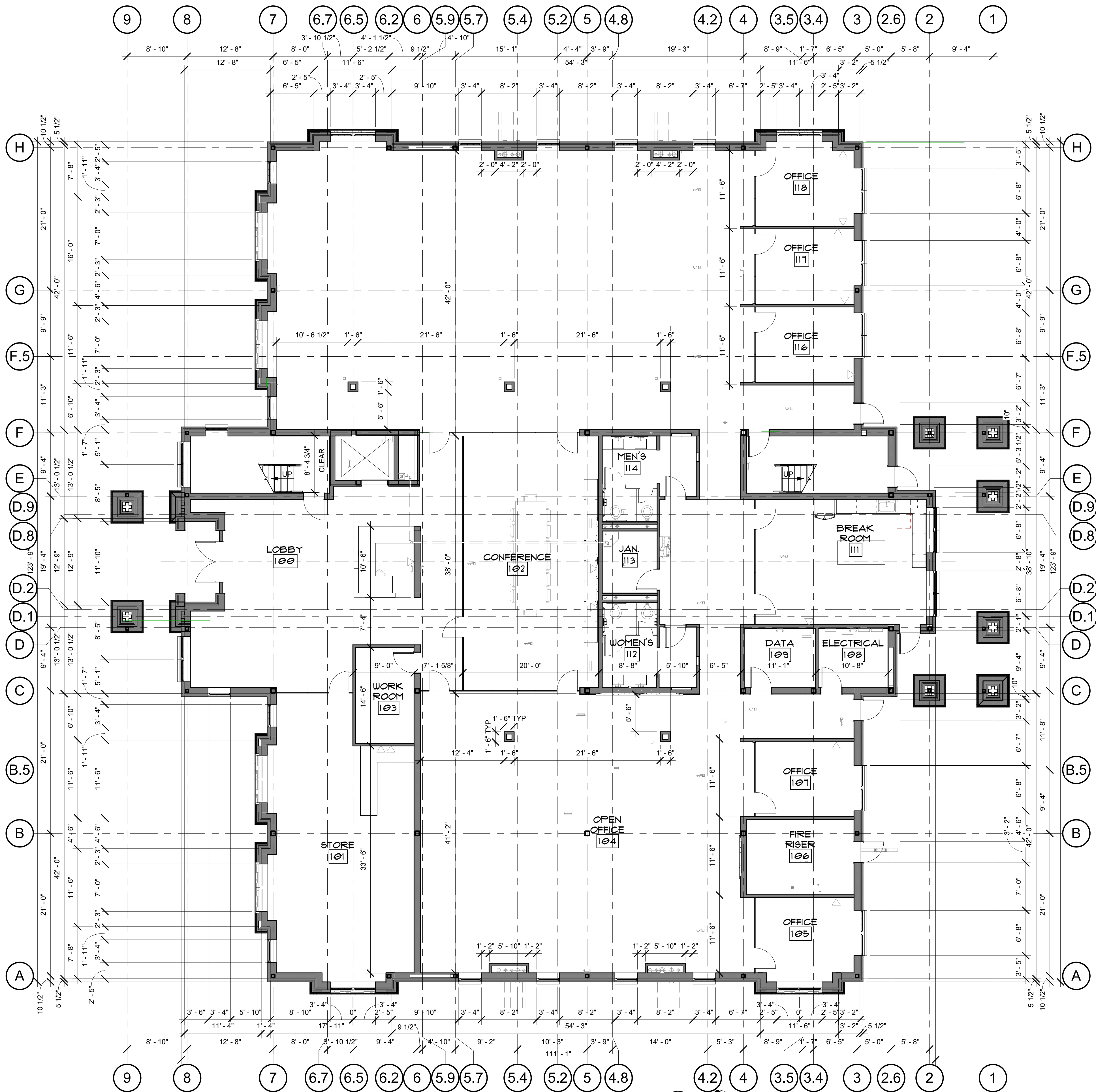
- 7A 1 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 7B 3 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 12A 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49, 1-HOUR FIRE RATED
- 12B 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACCOUSTIC BATT - STC - 49

PARTITION LEGEND

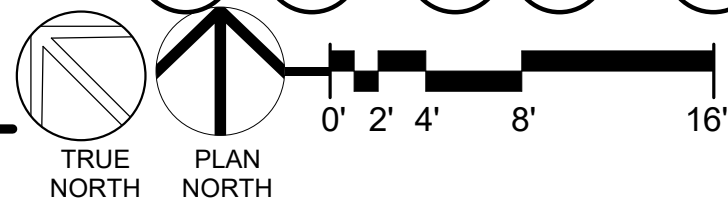
- STANDARD PARTITION
- 1-HOUR FIRE RATED PARTITION

FLOOR PLAN GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD UNLESS NOTED OTHERWISE.
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- REFER TO A751 FOR CASEWORK DETAILS AND INFORMATION.
- REFER TO A201 FOR EXTERIOR ELEVATIONS.
- REFER TO ID101 FOR FLOOR FINISHES.



A FIRST FLOOR - DIMENSION PLAN
1/8" = 1'-0"



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SHEET NAME:
**FIRST FLOOR -
DIMENSION PLAN**

SHEET NUMBER:
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PARTITION INFORMATION

PARTITION TYPES

- 1A 3 5/8" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1F 6" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1M 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49, 1-HOUR FIRE RATED
- 1N 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49,

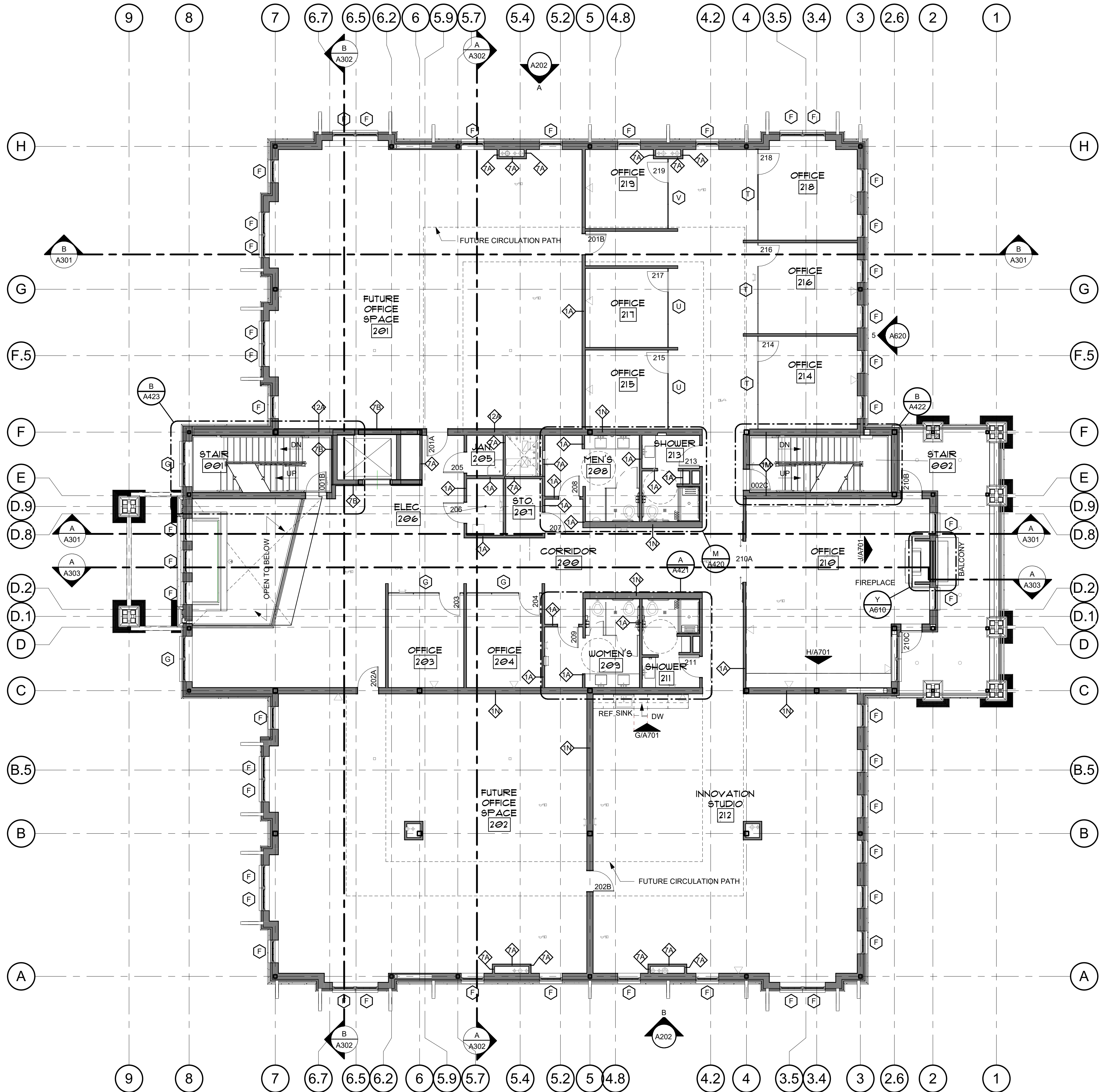
- 7A 1 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 7B 3 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 12A 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49, 1-HOUR FIRE RATED
- 12B 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49

PARTITION LEGEND

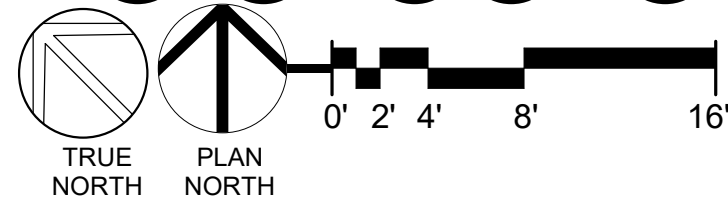
- STANDARD PARTITION
- 1-HOUR FIRE RATED PARTITION

FLOOR PLAN GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD UNLESS NOTED OTHERWISE.
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- REFER TO ID101 FOR FINISH INFORMATION, SCHEDULES, AND DETAILS.
- REFER TO A751 FOR CASEWORK DETAILS AND INFORMATION.
- REFER TO A201 FOR EXTERIOR ELEVATIONS
- REFER TO ID101 FOR FLOOR FINISHES.



A SECOND FLOOR - REFERENCE PLAN
1/8" = 1'-0"



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SHEET NUMBER:

A103

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PARTITION INFORMATION

PARTITION TYPES

- 1A 3 5/8" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1F 6" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1M 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49, 1-HOUR FIRE RATED
- 1N 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49,

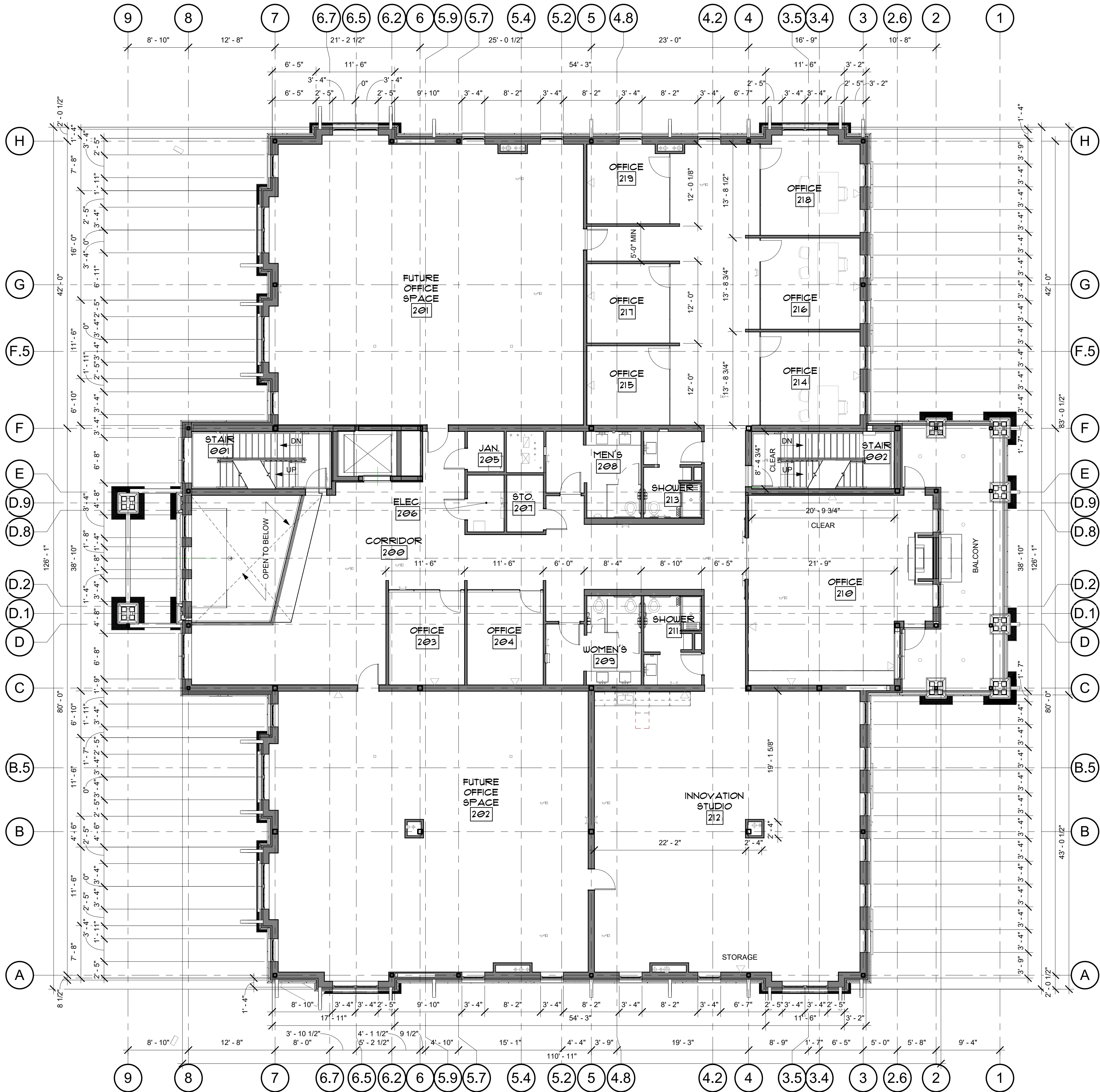
- 7A 1 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 7B 3 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 12A 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPUSM ONE SIDE, ACCOUSTIC BATT - STC - 49, 1-HOUR FIRE RATED
- 12B 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPUSM ONE SIDE, ACCOUSTIC BATT - STC - 49

PARTITION LEGEND

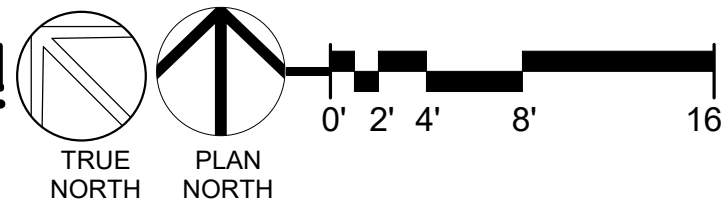
- STANDARD PARTITION
- 1-HOUR FIRE RATED PARTITION

FLOOR PLAN GENERAL NOTES

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- REFER TO A751 FOR CASEWORK DETAILS AND INFORMATION.
- REFER TO A201 FOR EXTERIOR ELEVATIONS
- REFER TO ID101 FOR FLOOR FINISHES.



A SECOND FLOOR - DIMENSION PLAN
1/8" = 1'-0"



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SHEET NAME:
**SECOND FLOOR -
DIMENSION PLAN**

SHEET NUMBER:
A104

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PARTITION INFORMATION

PARTITION TYPES

- 1A 3 5/8" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
FACE OF STUD
1F 6" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
1M 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49, 1-HOUR FIRE RATED
1N 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49,

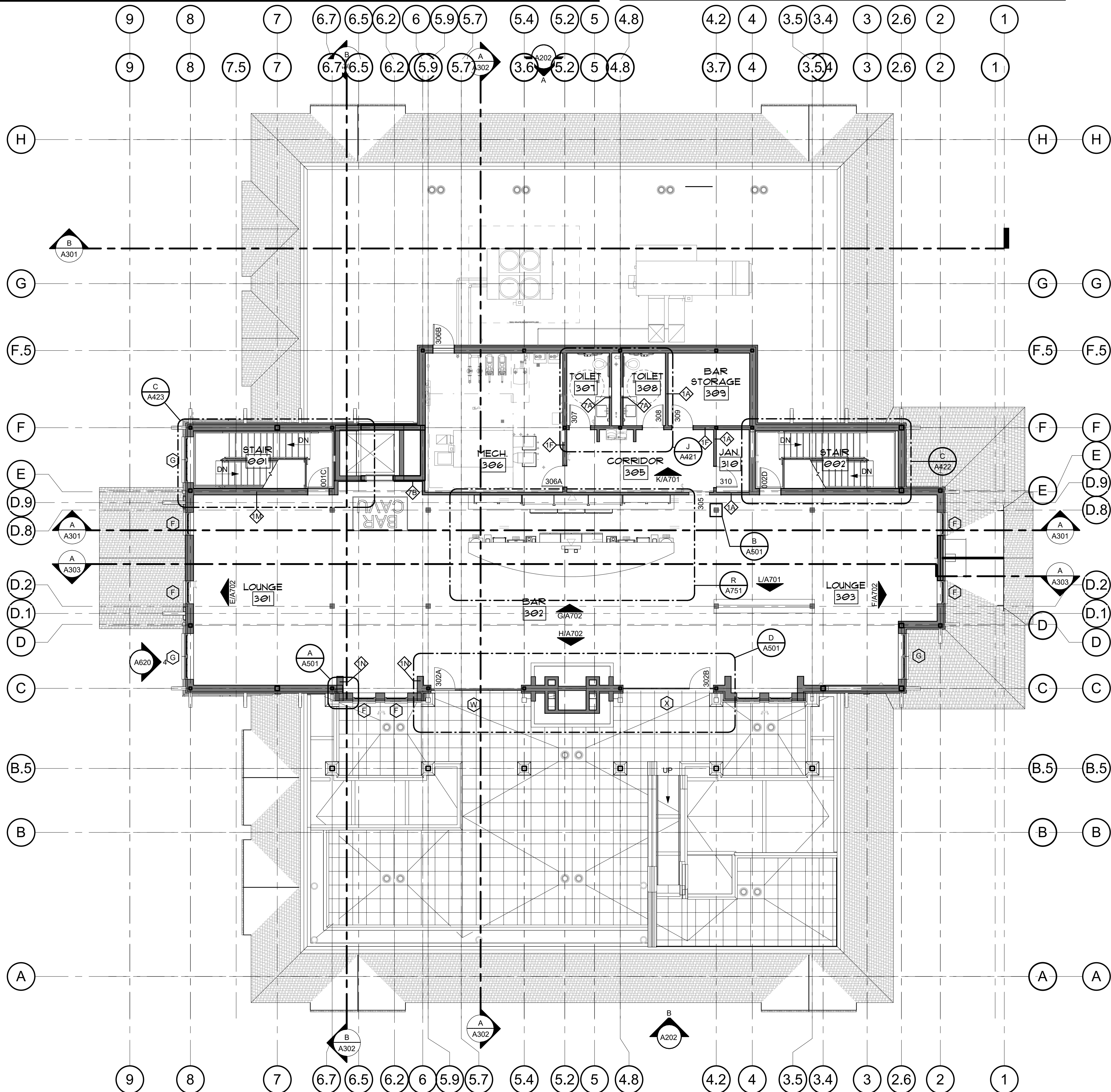
- 7A 1 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
7B 3 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
12A 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPUSM ONE SIDE, ACCOUSTIC BATT - STC - 49, 1-HOUR FIRE RATED
12B 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPUSM ONE SIDE, ACCOUSTIC BATT - STC - 49

PARTITION LEGEND

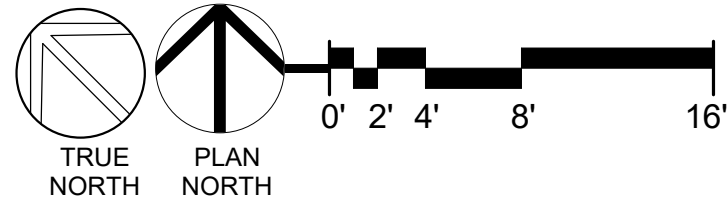
- STANDARD PARTITION
1-HOUR FIRE RATED PARTITION

FLOOR PLAN GENERAL NOTES

1. ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH UNLESS NOTED OTHERWISE.
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5. REFER TO ID101 FOR FINISH INFORMATION, SCHEDULES, AND DETAILS.
6. REFER TO A751 FOR CASEWORK DETAILS AND INFORMATION.
7. REFER TO A201 FOR EXTERIOR ELEVATIONS
8. REFER TO ID101 FOR FLOOR FINISHES.



A THIRD FLOOR - REFERENCE PLAN
1/8" = 1'-0"



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**THIRD FLOOR -
REFERENCE PLAN**

SHEET NUMBER:

A105

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PARTITION INFORMATION

PARTITION TYPES

- 1A 3 5/8" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1F 6" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49
- 1M 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49, 1-HOUR FIRE RATED
- 1N 10" STUD WITH GYPSUM ON BOTH SIDES TO DECKING, ACOUSTIC BATT - STC 49,

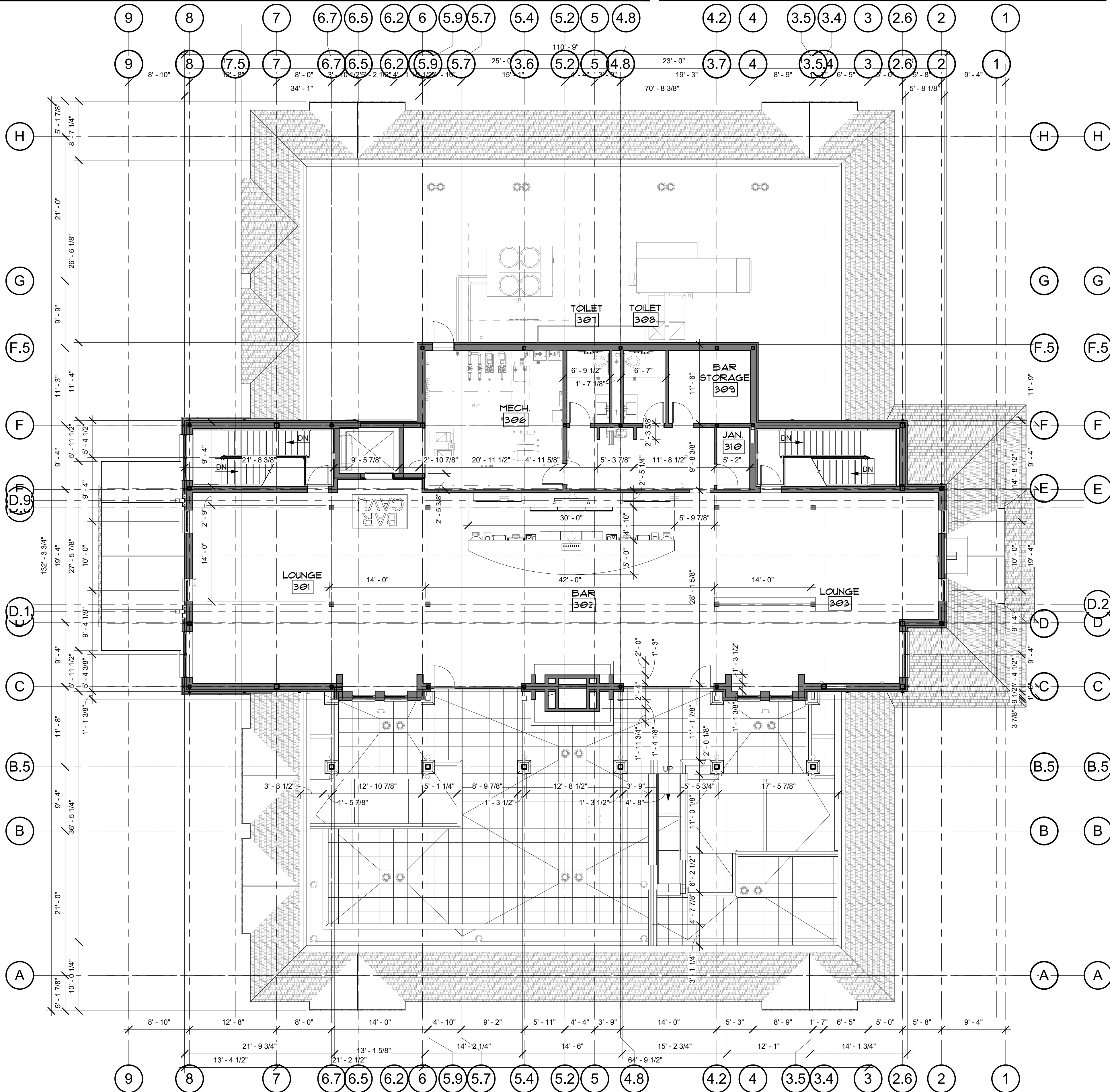
- 7A 1 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 7B 3 5/8" STUD WITH GYPSUM ONE SIDE TO DECKING
- 12A 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49, 1-HOUR FIRE RATED
- 12B 10" STUD WITH ONE LAYER OF GYPSUM ONE SIDE, TWO LAYERS OF GYPSUM ONE SIDE, ACOUSTIC BATT - STC - 49

PARTITION LEGEND

- STANDARD PARTITION
- 1-HOUR FIRE RATED PARTITION

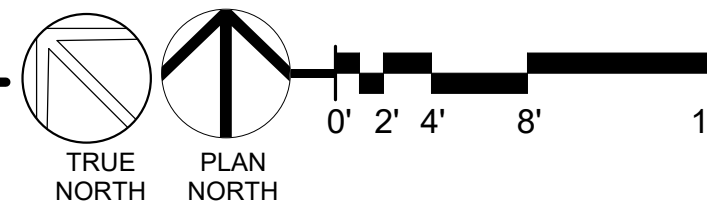
FLOOR PLAN GENERAL NOTES

1. ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH UNLESS NOTED OTHERWISE.
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5. REFER TO ID101 FOR FINISH INFORMATION, SCHEDULES, AND DETAILS.
6. REFER TO A751 FOR CASEWORK DETAILS AND INFORMATION.
7. REFER TO A201 FOR EXTERIOR ELEVATIONS
8. REFER TO ID101 FOR FLOOR FINISHES.



THIRD FLOOR - DIMENSION PLAN

1/8" = 1'-0"



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THIRD FLOOR - DIMENSION PLAN

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A106

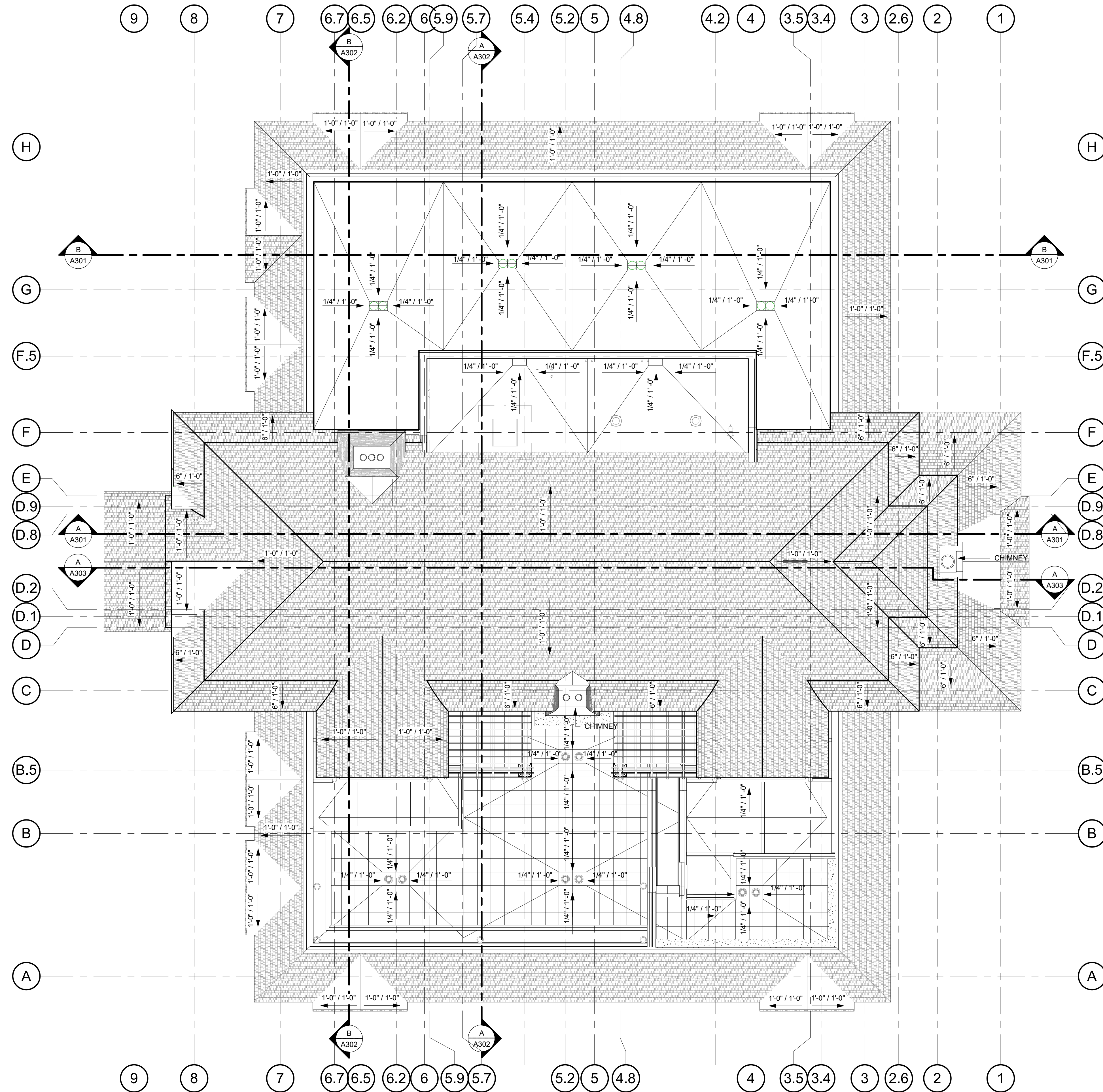
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ROOF PLAN GENERAL NOTES

- ALL ROOFING SURFACES TO SLOPE 1/4" VERTICAL PER 1'0" HORIZONTAL MINIMUM, U.N.O.
- TOP OF INSULATION HEIGHTS, HIGH POINTS AND LOW POINTS, ARE INDICATED AS THE TOP OF ROOF SURFACE ABOVE THE ROOF DRAIN(S). (I.E. + 4.0' WHERE HIGH POINT OF ROOM DRAIN SUMP IS + 0')
- ALL ROOFTOP EQUIPMENT SHALL BE MOUNTED TO A CURB, TYPICAL.
- PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED FOR SERVICE ACCESS. WALKWAY PROTECTION IS INDICATED AS GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT.
- ALL ROOFTOP MECHANICAL, ELECTRICAL, AND/OR PLUMBING EQUIPMENT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFERENCE MEP DOCUMENTS AND SPECIFICATIONS FOR FURTHER DESIGN INFORMATION.
- INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ROOF LEGEND

- MEMBRANE BUILT-UP ROOFING 6"
MINIMUM POLYISO INSULATION ON
METAL DECK, MINIMUM R30
- ROOFTOP AIR HANDLING UNIT
- CRICKET



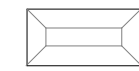

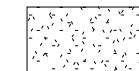
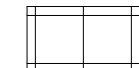

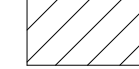




ROOF PLAN
1/8" = 1'-0"

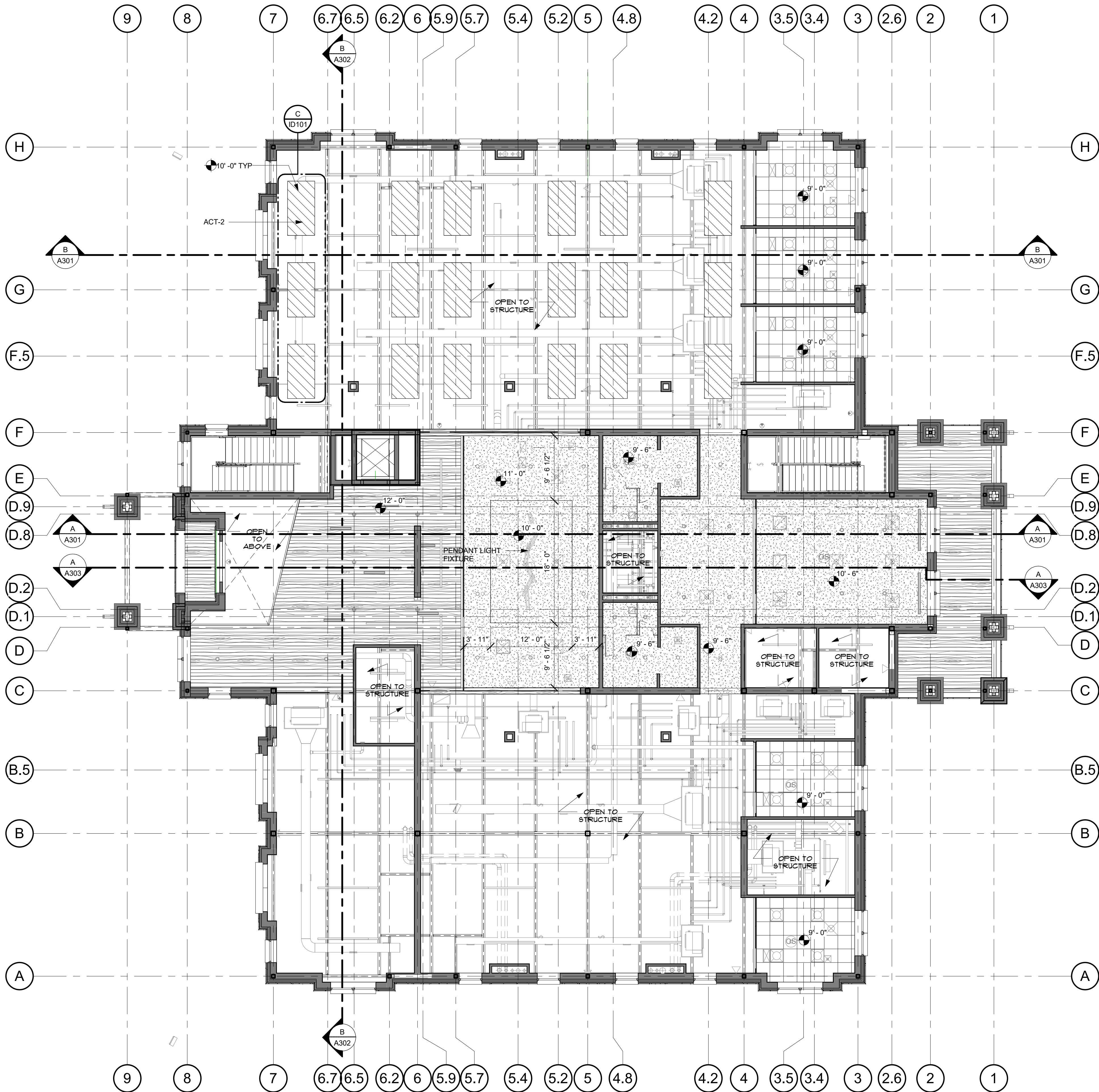


REFLECTED CEILING PLAN GENERAL NOTES

1. ALL CEILINGS SHALL BE 10' - 0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
2. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.
3. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL AND PLUMBING AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
4. LIGHTS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, DIFFUSERS, STROBES, AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
5. ALL CORRIDOR SPRINKLER HEADS SHALL BE ALIGNED IN THE SAME CEILING LOCATION PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION. SPRINKLER HEADS SHOWN ON THIS SHEET ARE WHERE ARCHITECTURALLY SIGNIFICANT AND FOR DESIGN INTENT ONLY.
6. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT; REFER TO G001 FOR MORE INFORMATION ON THE LOCATION OF THESE AND OTHER LIFE SAFETY ITEMS.
7. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON REFLECTED CEILING PLANS ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.

REFLECTED CEILING PLAN LEGEND

	POOL TABLE LIGHT		RECESSED CAN LIGHT
	GYPSUM BOARD - FOR PAINT REFER TO ID SHEETS		STRIP LIGHT
	ACT-1, ACOUSTIC CEILING TILE		SUPPLY DIFFUSER
	ACOUSTICAL CEILING PANELS		RETURN LINEAR DIFFUSER/RETURN REFER TO MECHANICAL DRAWINGS
	10' - 0" AFF CEILING HEIGHT		EXHAUST FAN
			SMOKE DETECTOR
			EXIT SIGN



A FIRST FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"

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**FIRST FLOOR -
REFLECTED
CEILING PLAN**

SHEET NUMBER:

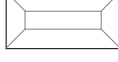

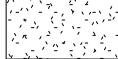



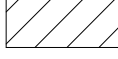

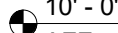




A121

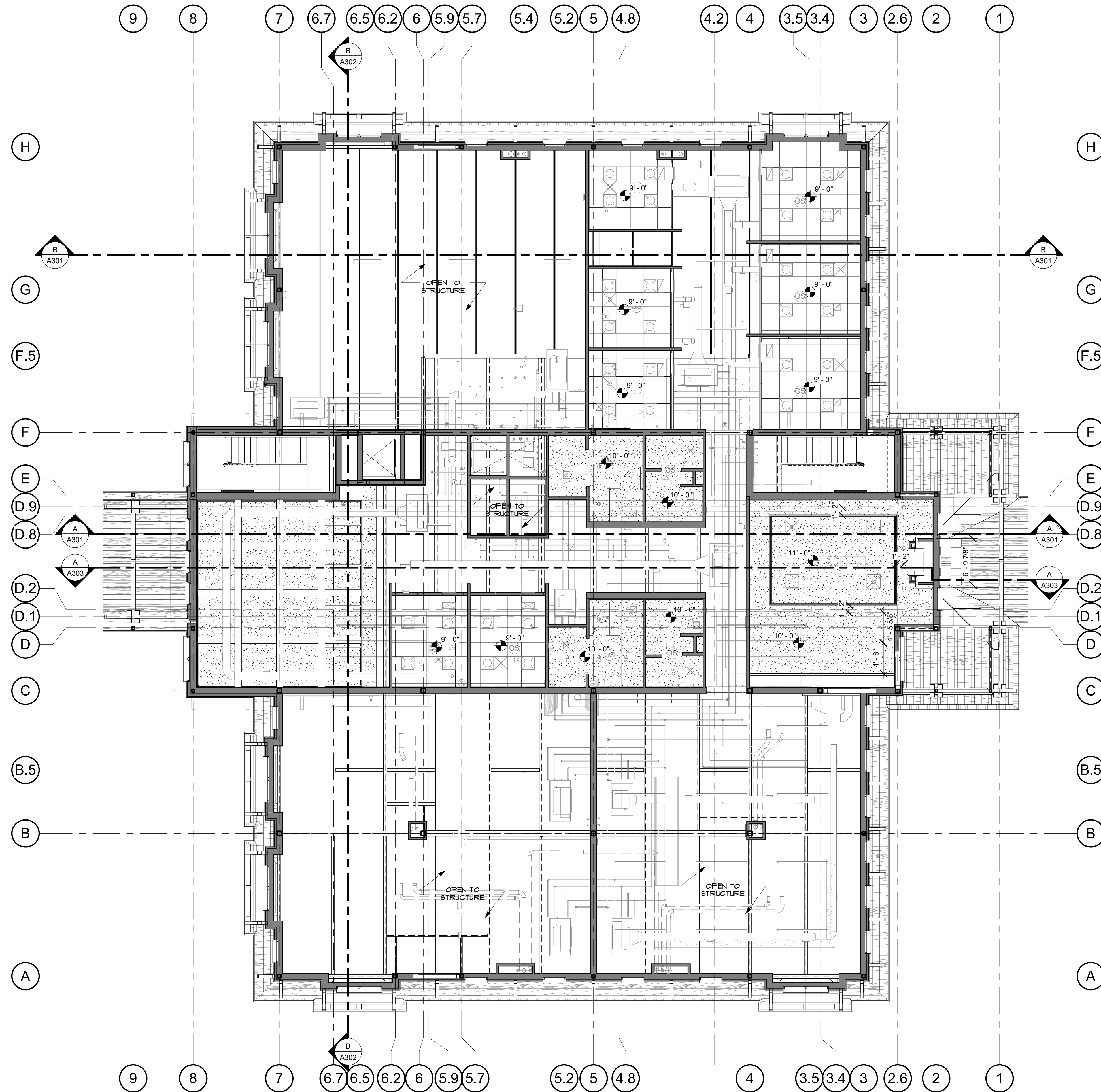
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REFLECTED CEILING PLAN GENERAL NOTES

1. ALL CEILINGS SHALL BE 10' - 0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.
2. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL AND PLUMBING AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
3. LIGHTS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, DIFFUSERS, STROBES, AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE. ALL CORRIDOR SPRINKLER HEADS SHALL BE ALIGNED IN THE SAME CEILING LOCATION PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION. SPRINKLER HEADS SHOWN ON THIS SHEET ARE WHERE ARCHITECTURALLY SIGNIFICANT AND FOR DESIGN INTENT ONLY.
4. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT; REFER TO G001 FOR MORE INFORMATION ON THE LOCATION OF THESE AND OTHER LIFE SAFETY ITEMS.
5. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON REFLECTED CEILING PLANS ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.

REFLECTED CEILING PLAN LEGEND

	POOL TABLE LIGHT		RECESSED CAN LIGHT
	GYPSUM BOARD - FOR PAINT REFER TO ID SHEETS		STRIP LIGHT
	ACT-1, ACOUSTIC CEILING TILE		SUPPLY DIFFUSER
	ACOUSTICAL CEILING PANELS		RETURN
	CEILING HEIGHT		LINEAR DIFFUSER/RETURN REFER TO MECHANICAL DRAWINGS
			EXHAUST FAN
			SMOKE DETECTOR
			EXIT SIGN



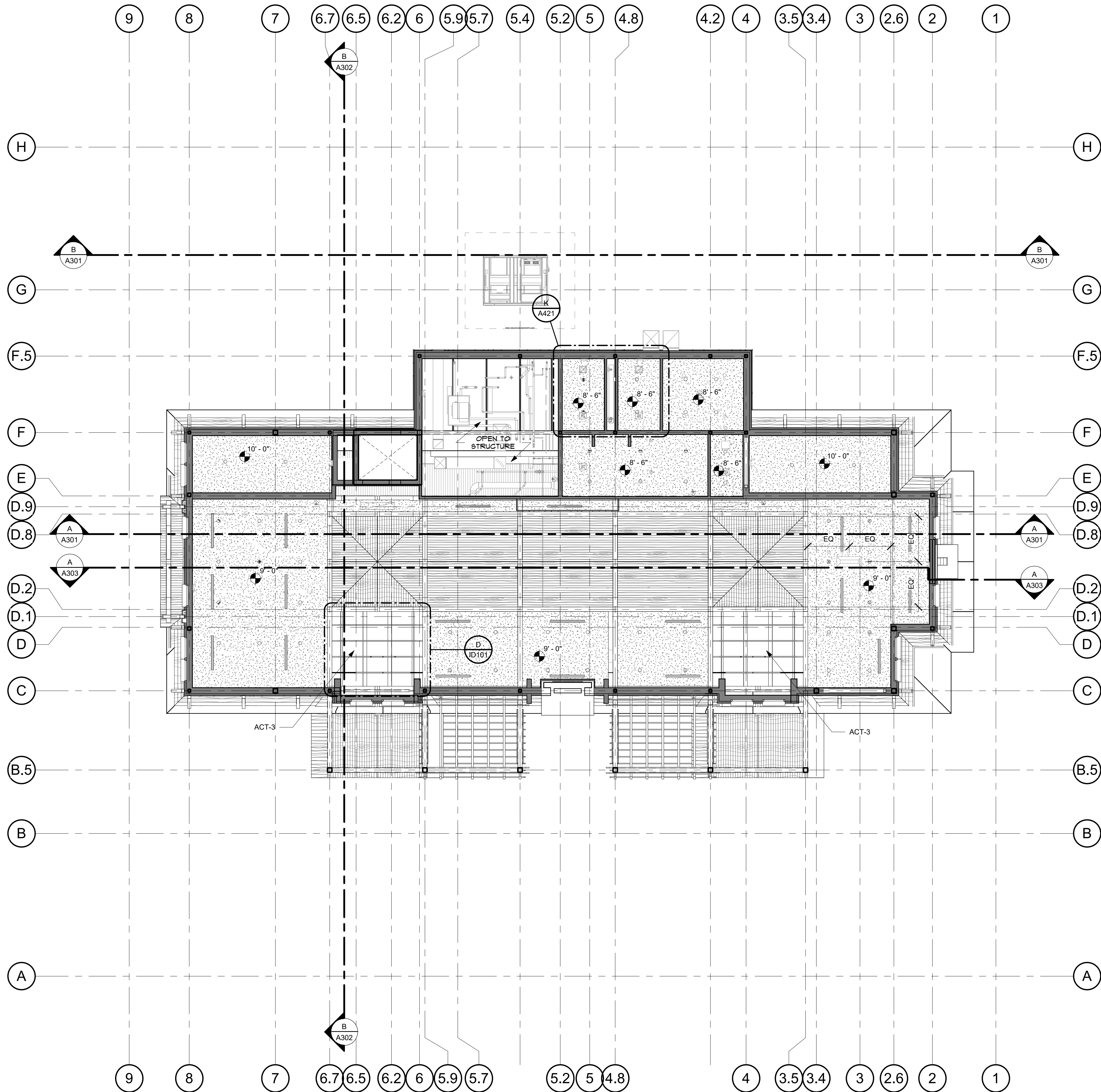
A SECOND FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. ALL CEILINGS SHALL BE 10' - 0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
2. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.
3. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL AND PLUMBING AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
4. LIGHTS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, DIFFUSERS, STROBES, AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
5. ALL CORRIDOR SPRINKLER HEADS SHALL BE ALIGNED IN THE SAME CEILING LOCATION PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION. SPRINKLER HEADS SHOWN ON THIS SHEET ARE WHERE ARCHITECTURALLY SIGNIFICANT AND FOR DESIGN INTENT ONLY.
6. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT; REFER TO G001 FOR MORE INFORMATION ON THE LOCATION OF THESE AND OTHER LIFE SAFETY ITEMS.
7. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON REFLECTED CEILING PLANS ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.

REFLECTED CEILING PLAN LEGEND

	POOL TABLE LIGHT		RECESSED CAN LIGHT
	GYPSUM BOARD - FOR PAINT REFER TO ID SHEETS		STRIP LIGHT
	ACT-1, ACOUSTIC CEILING TILE		SUPPLY DIFFUSER
	ACOUSTICAL CEILING PANELS		RETURN LINEAR DIFUSSER/RETURN REFER TO MECHANICAL DRAWINGS
	10' - 0" AFF CEILING HEIGHT		EXHAUST FAN
			SMOKE DETECTOR
			EXIT SIGN



A THIRD FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"

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GH2 PROJECT NUMBER:
20170021
ISSUE DATE:
08/07/2020
ISSUE:
PROGRESS SET

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
**THIRD FLOOR -
REFLECTED
CEILING PLAN**

SHEET NUMBER:
A123

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FINISH SCHEDULE

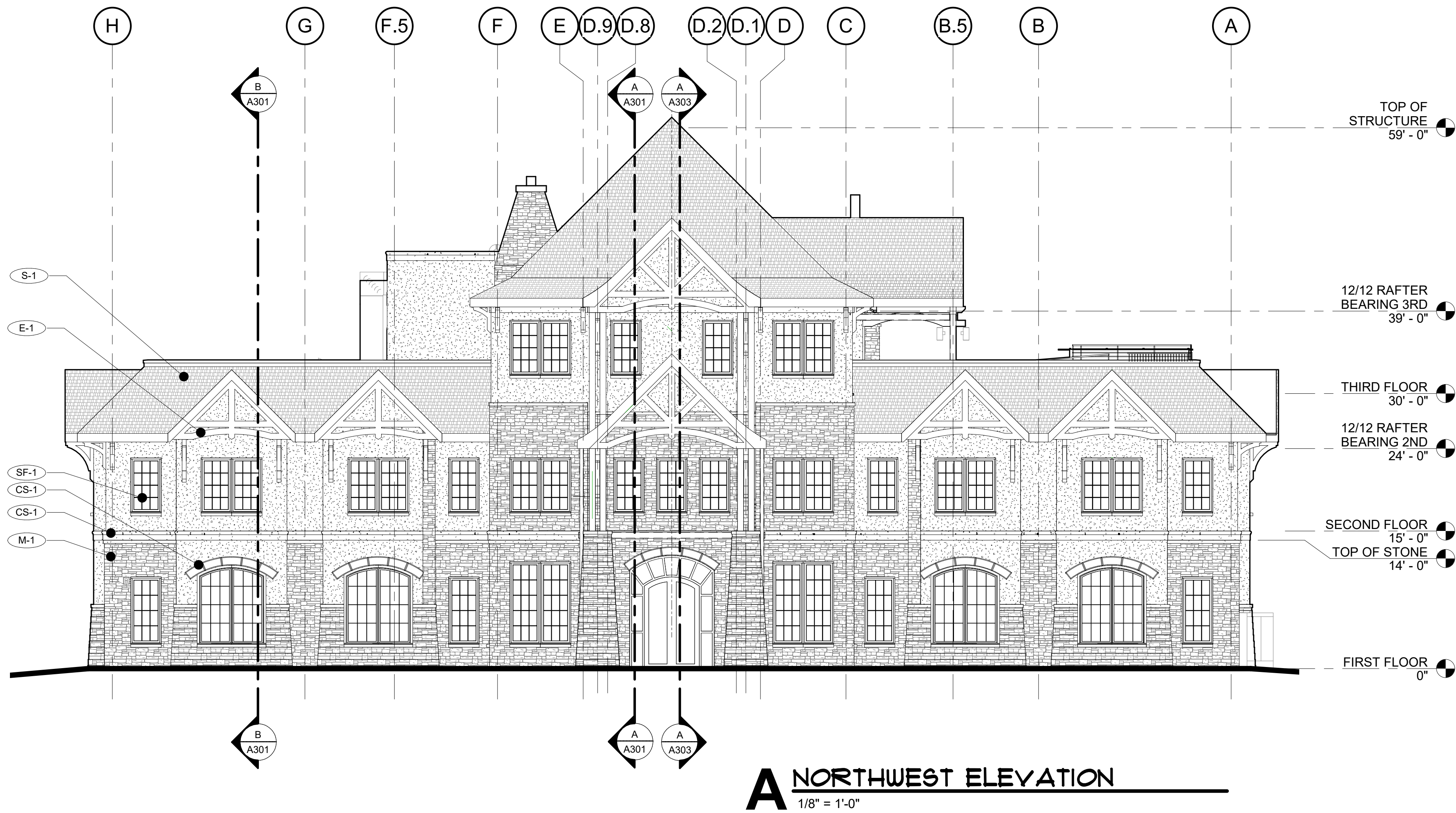
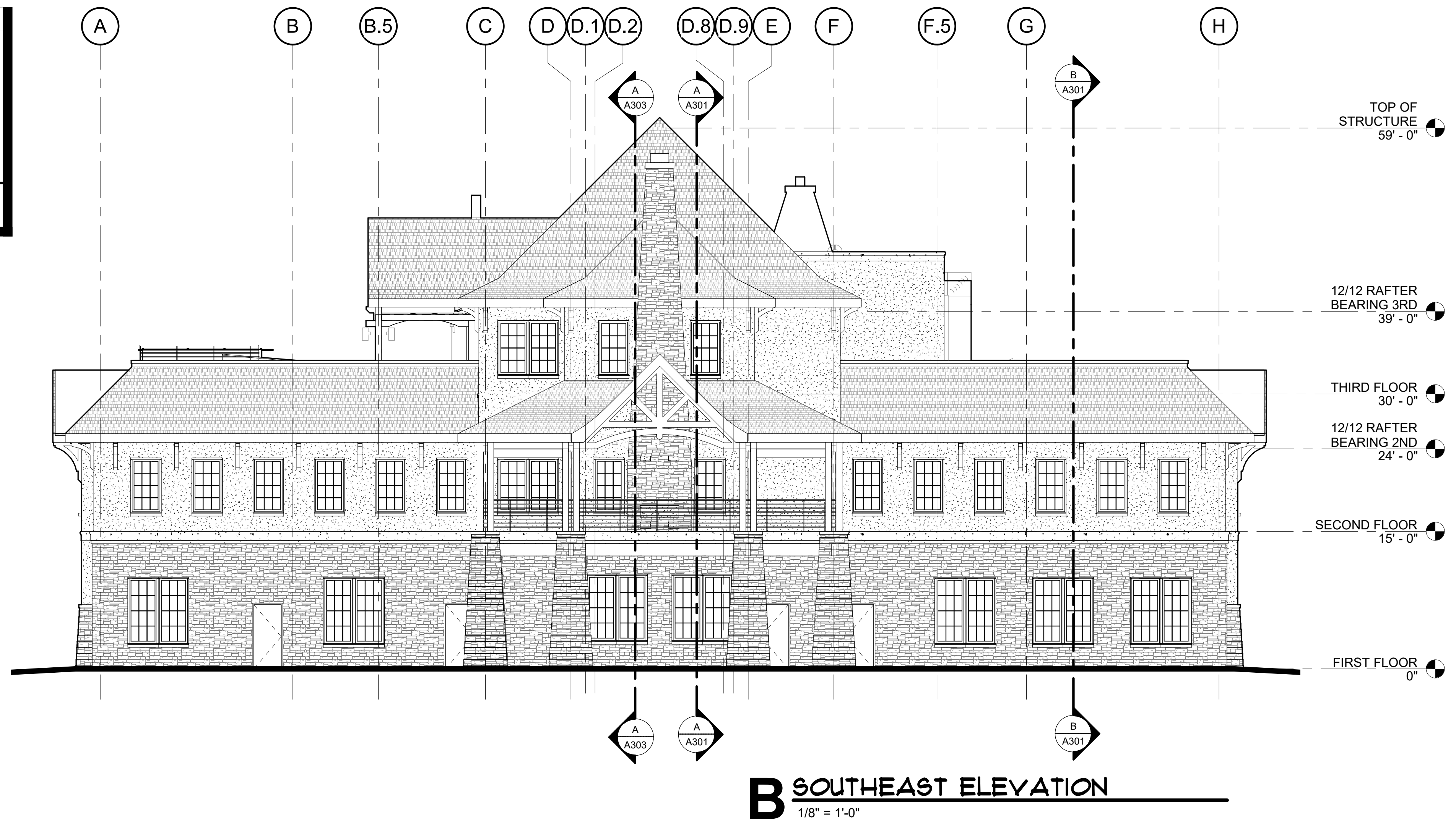
M-1	FLAGSTONE MASONRY	S-1	ASPHALT SHINGLES	
E-1	DRAINABLE EIFS EXTERIOR INSULATION	CS-1	CAST STONE	RV-1 REVEAL
S-1	ASPHALT SHINGLES	CJ	MASONRY AND CONCRETE CONTROL JOINTS	
SF-1	STOREFRONT GLAZING			

EQUIPMENT SCHEDULE

1	LIGHTING, REFER TO ELECTRICAL	2	LOUVER, REFER TO MECHANICAL
---	-------------------------------	---	-----------------------------

EXTERIOR ELEVATION GENERAL NOTES

- REFER TO SHEET A620 FOR WINDOW TYPES.
- REFER TO SHEET A610 FOR DOOR SCHEDULE.
- REFER TO A3 SERIES FOR EXTERIOR WALL SECTIONS.
- ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE.
- MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
- DETAILS ON EXTERIOR ELEVATIONS ARE GENERAL IN NATURE AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO WALL DETAILS AND SECTIONS FOR INFO CONCERNING EXTERIOR CONSTRUCTION.
- REFER TO FLOOR PLANS, SECTIONS, WALL DETAILS, AND STRUCTURAL DRAWINGS FOR COMPLETE INFORMATION.
- REFER TO ELECTRICAL FOR EXTERIOR LIGHTING.



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ISSUE:

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SHEET NAME:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A201

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FINISH SCHEDULE

M-1	FLAGSTONE MASONRY	S-1	ASPHALT SHINGLES	
E-1	DRAINABLE EIFS EXTERIOR INSULATION	CS-1	CAST STONE	RV-1 REVEAL
S-1	ASPHALT SHINGLES	C/J	MASONRY AND CONCRETE CONTROL JOINTS	
SF-1	STOREFRONT GLAZING			

EQUIPMENT SCHEDULE

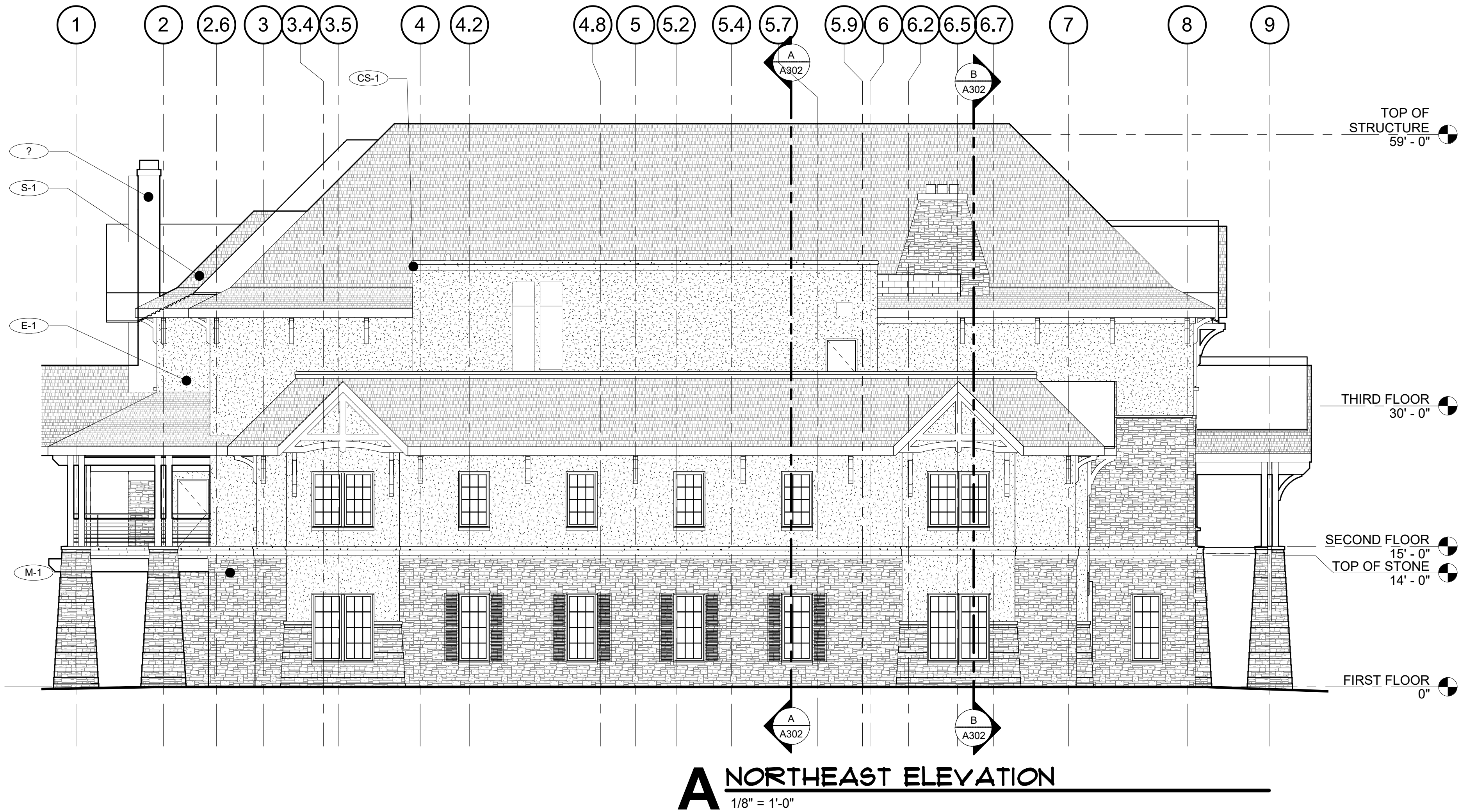
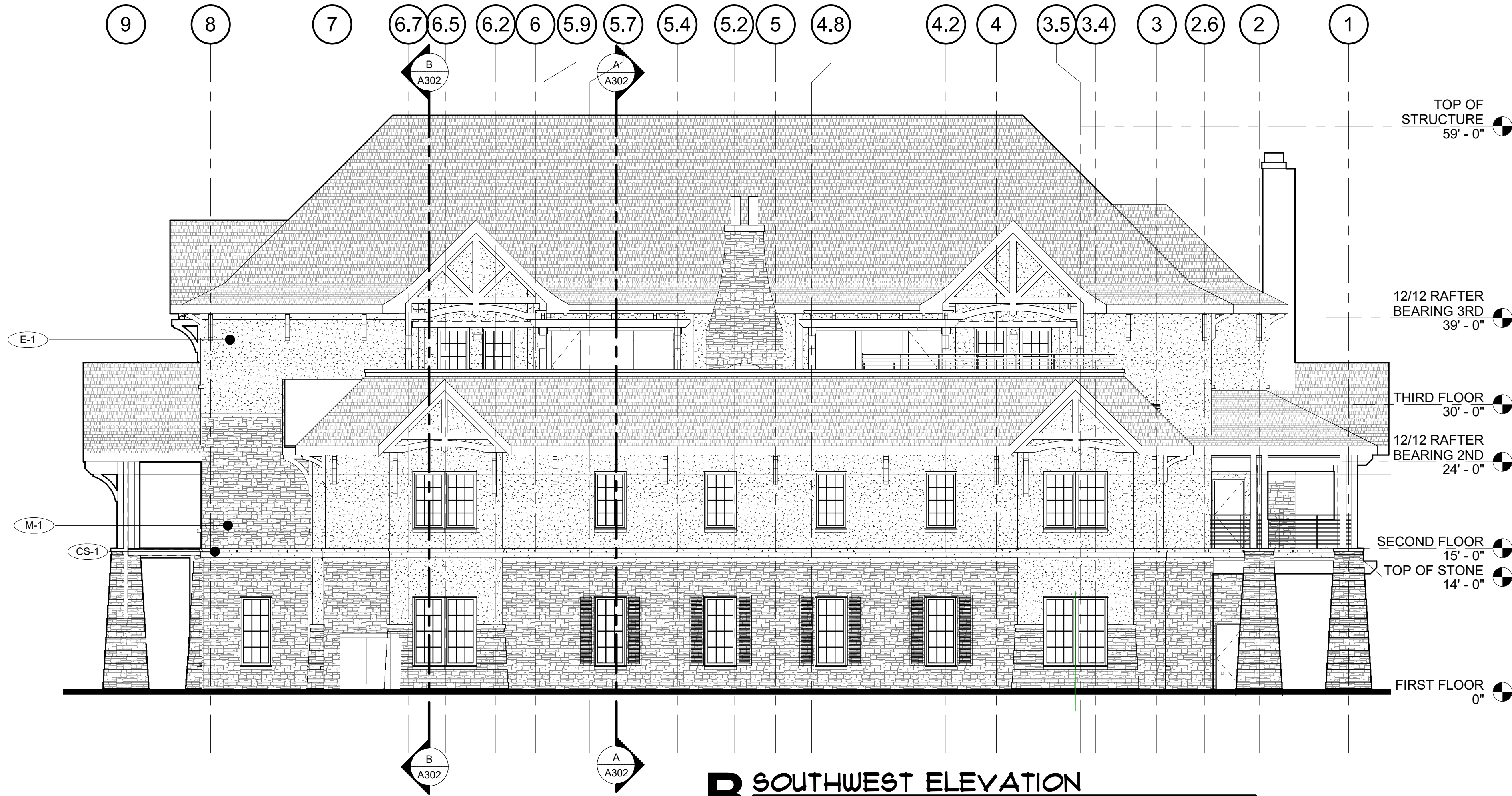
1	LIGHTING, REFER TO ELECTRICAL	2	LOUVER, REFER TO MECHANICAL
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EXTERIOR ELEVATION GENERAL NOTES

- REFER TO SHEET A620 FOR WINDOW TYPES.
- REFER TO SHEET A610 FOR DOOR SCHEDULE.
- REFER TO A3 SERIES FOR EXTERIOR WALL SECTIONS.
- ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE.
- MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
- DETAILS ON EXTERIOR ELEVATIONS ARE GENERAL IN NATURE AND FOR ILLUSTRATIVE PURPOSES ONLY.
- REFER TO WALL DETAILS AND SECTIONS FOR INFO CONCERNING EXTERIOR CONSTRUCTION.
- REFER TO FLOOR PLANS, SECTIONS, WALL DETAILS, AND STRUCTURAL DRAWINGS FOR COMPLETE INFORMATION.
- REFER TO ELECTRICAL FOR EXTERIOR LIGHTING.

ELEVATION KEY NOTES

- STONE
- STEEL PLATE, PIN MOUNTED SIGNAGE, REFER TO SIGNAGE



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NO. DESCRIPTION DATE

SHEET NAME:
**EXTERIOR
ELEVATIONS**

SHEET NUMBER:
A202

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NO.	DESCRIPTION	DATE
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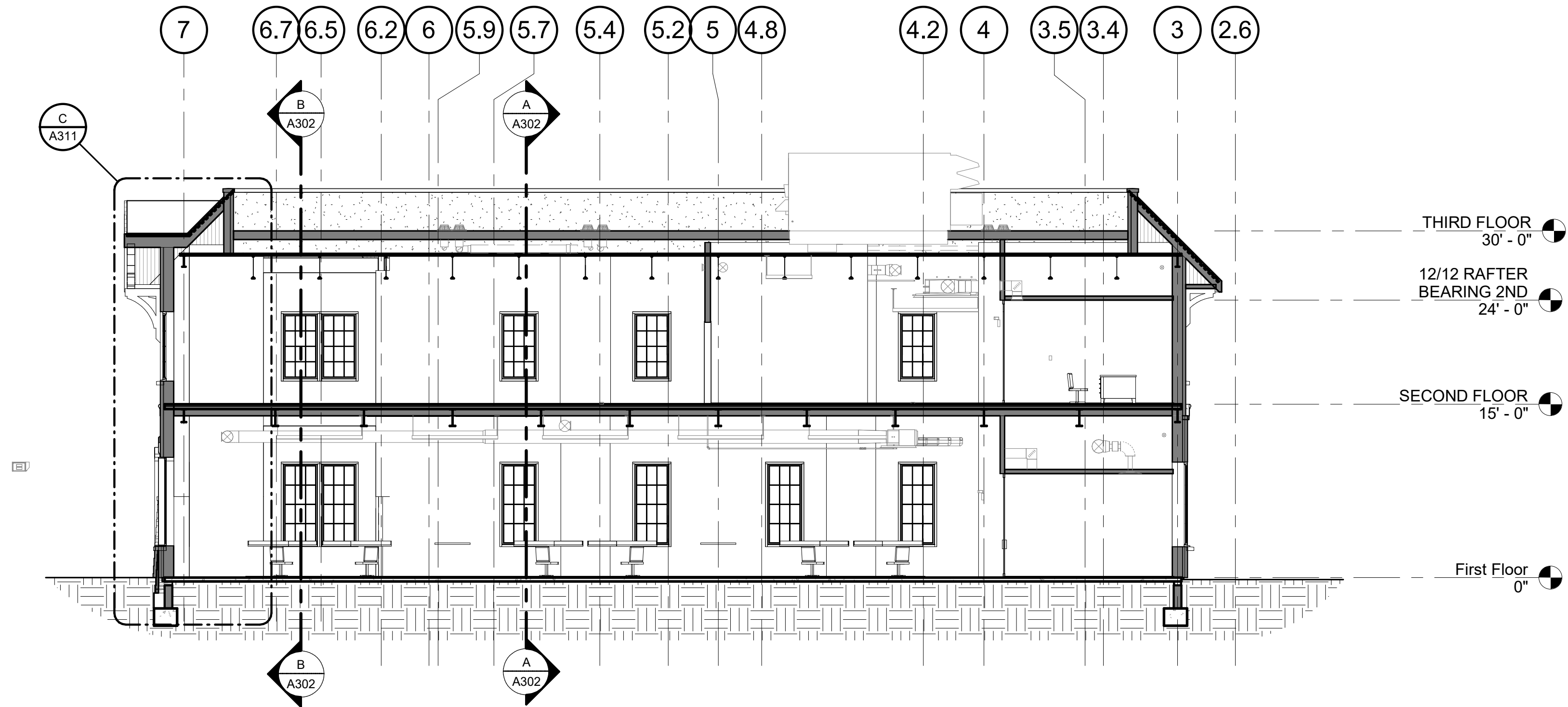
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**BUILDING
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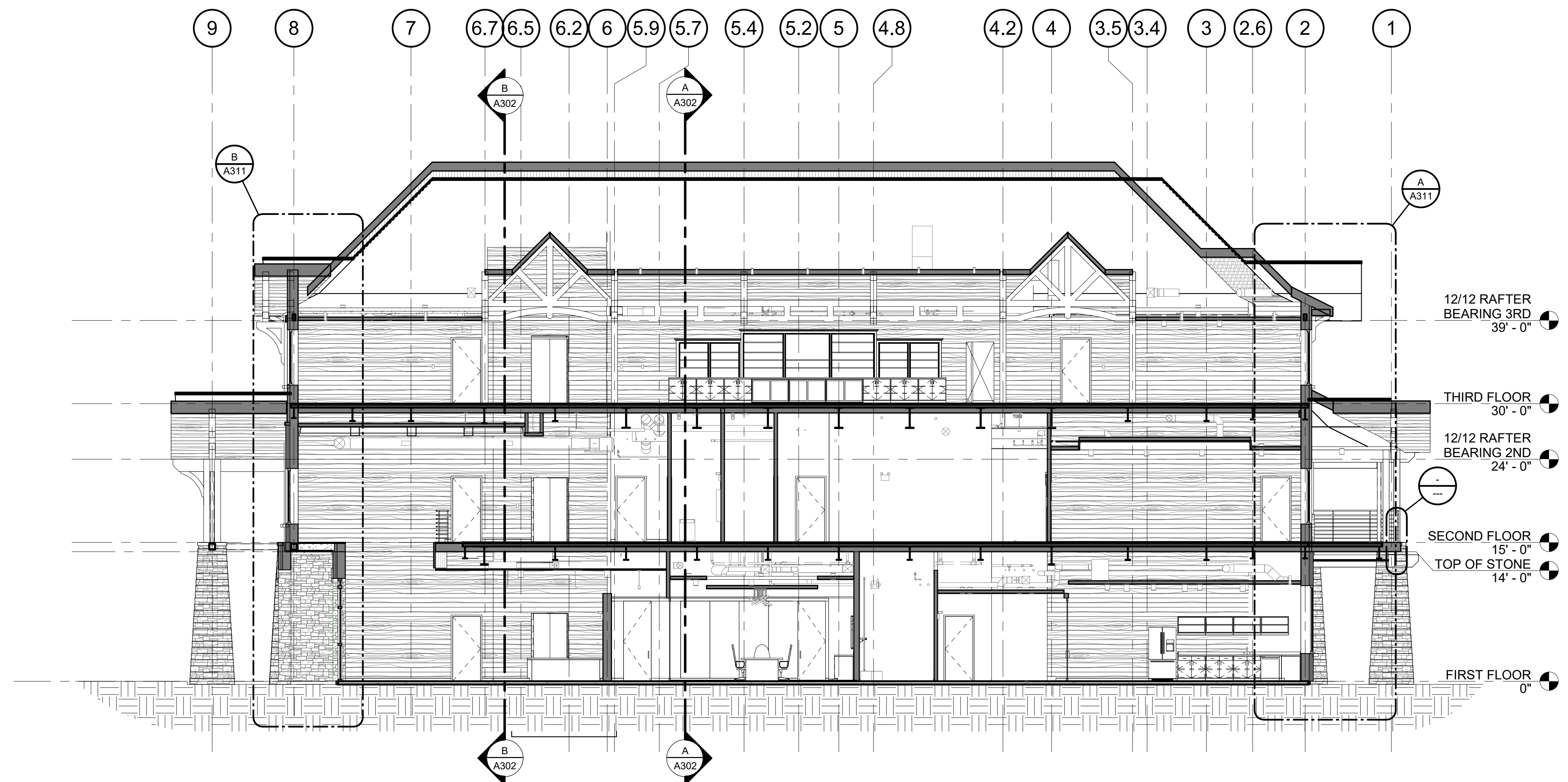
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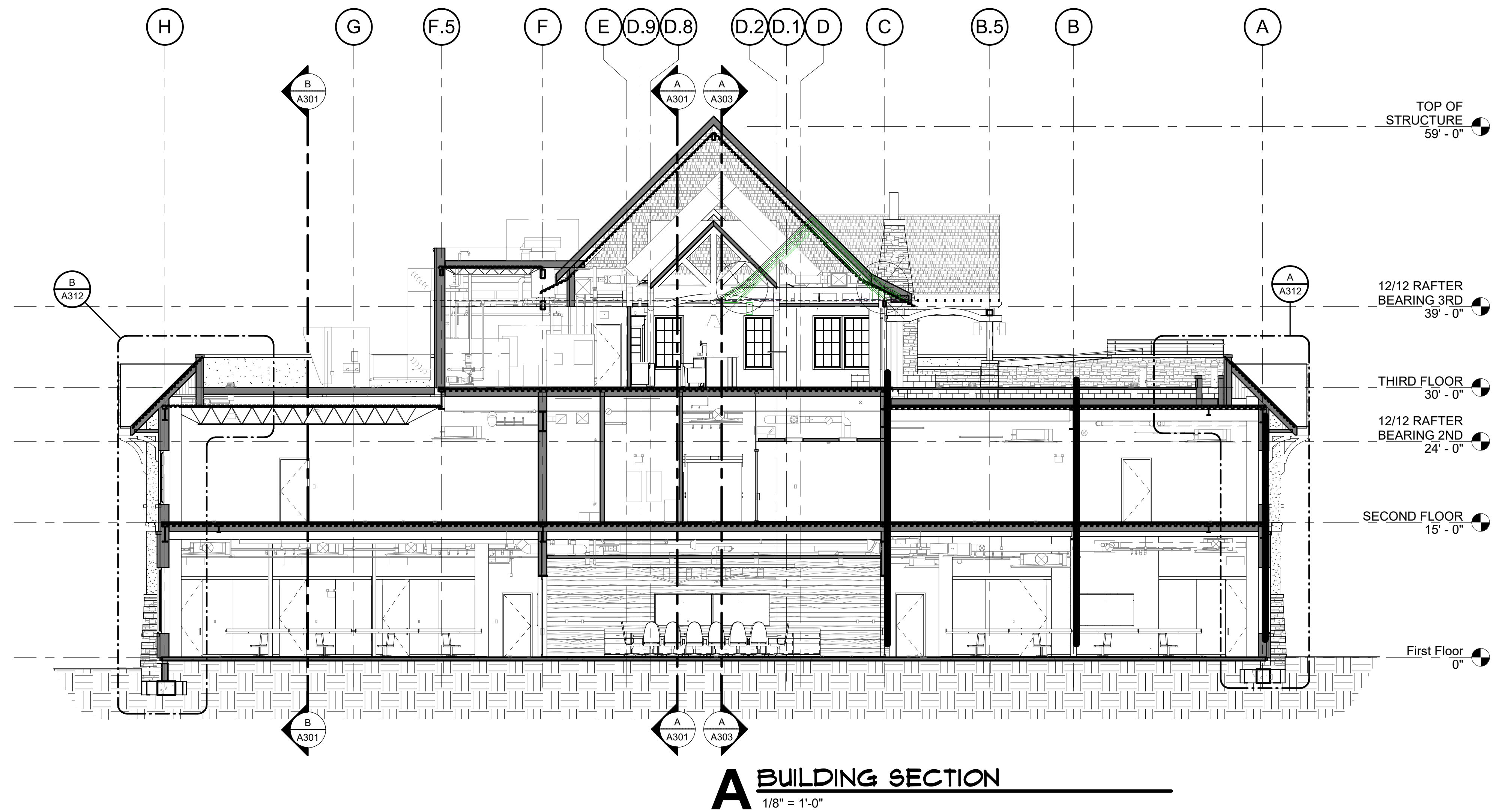
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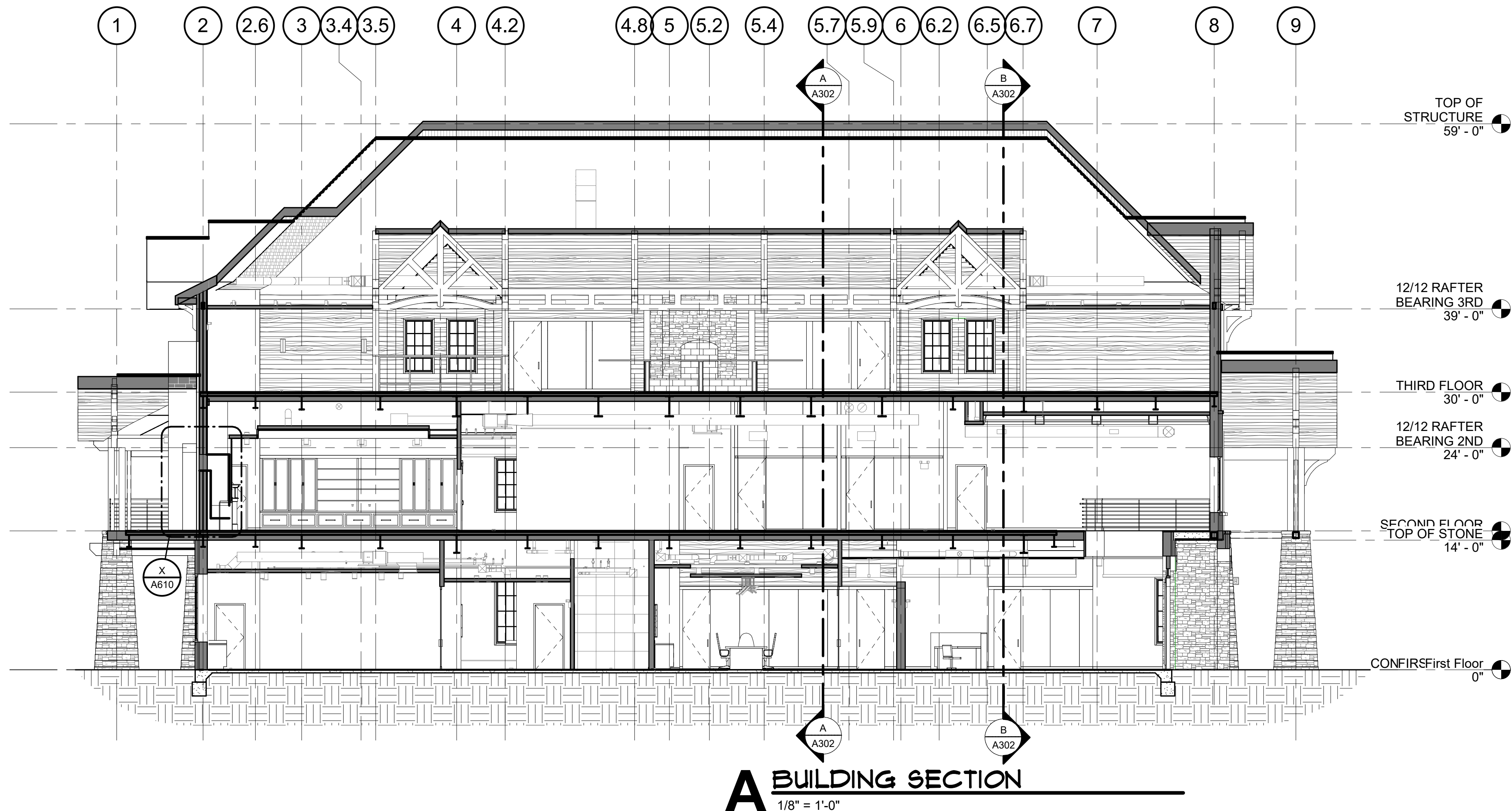
B BUILDING SECTION
1/8" = 1'-0"



A BUILDING SECTION
1/8" = 1'-0"



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ISSUE DATE:
08/07/2020

ISSUE:
PROGRESS SET

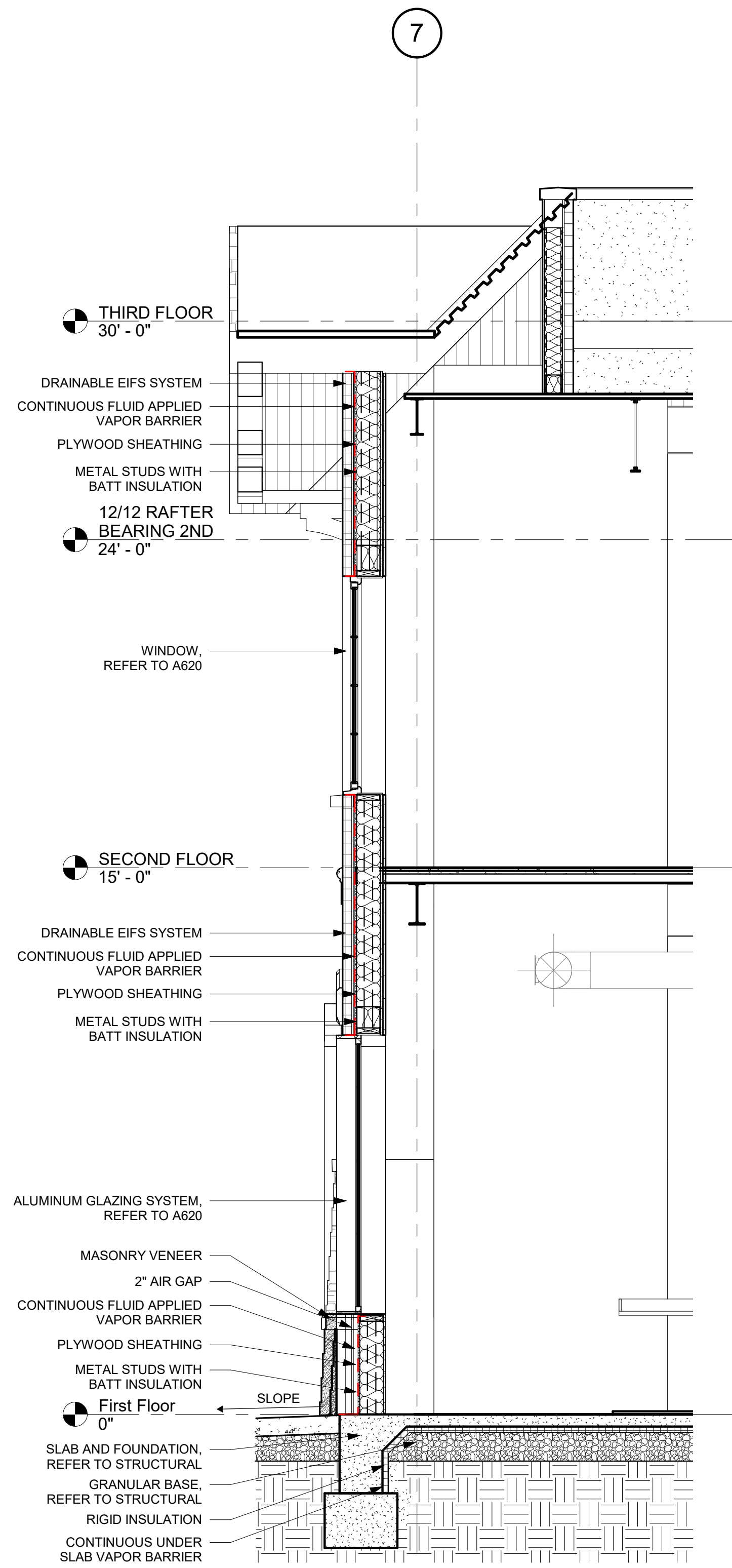
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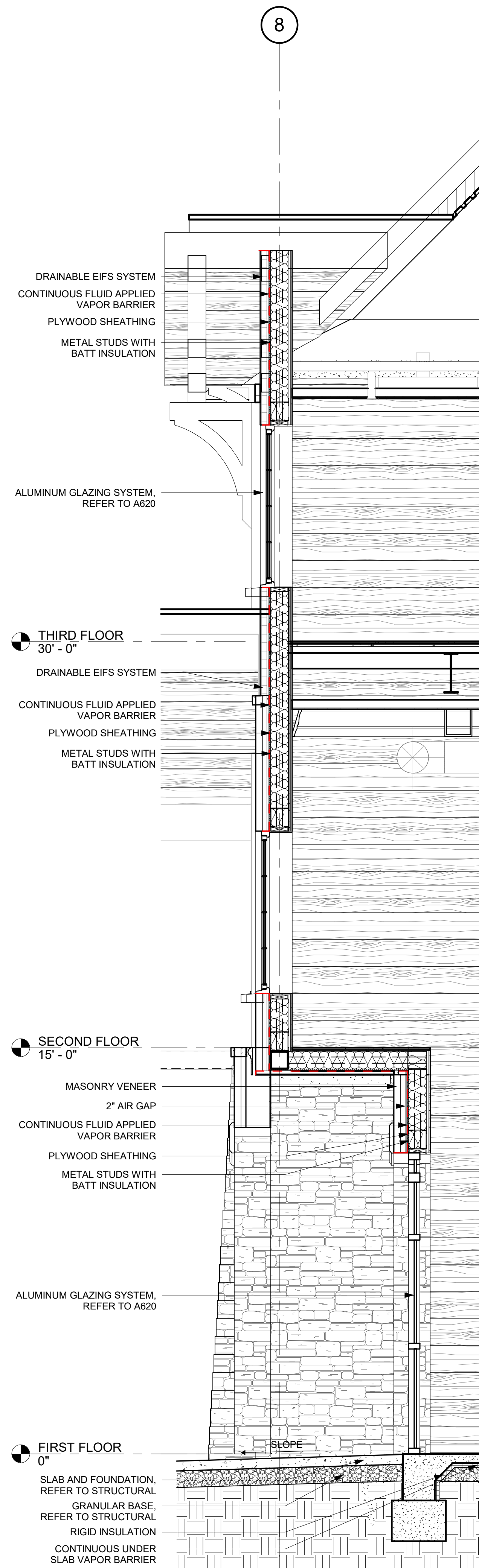
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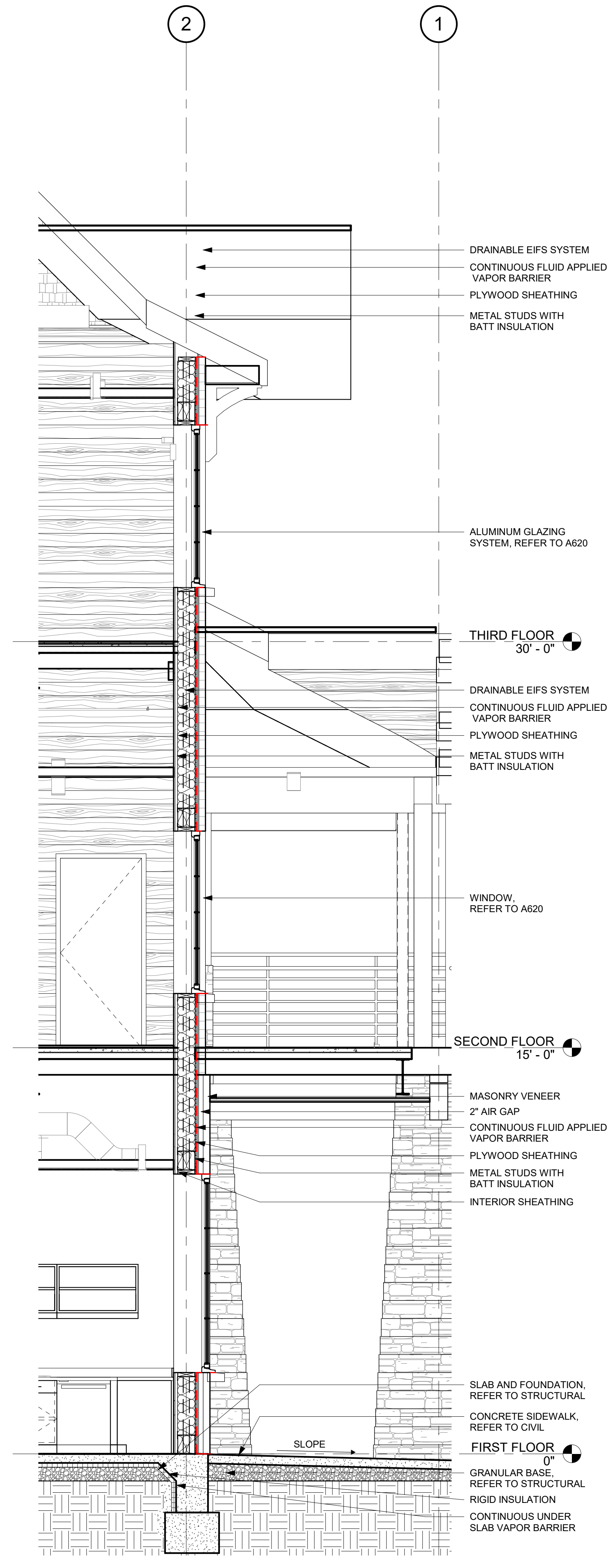
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C WALL SECTION
3/8" = 1'-0"

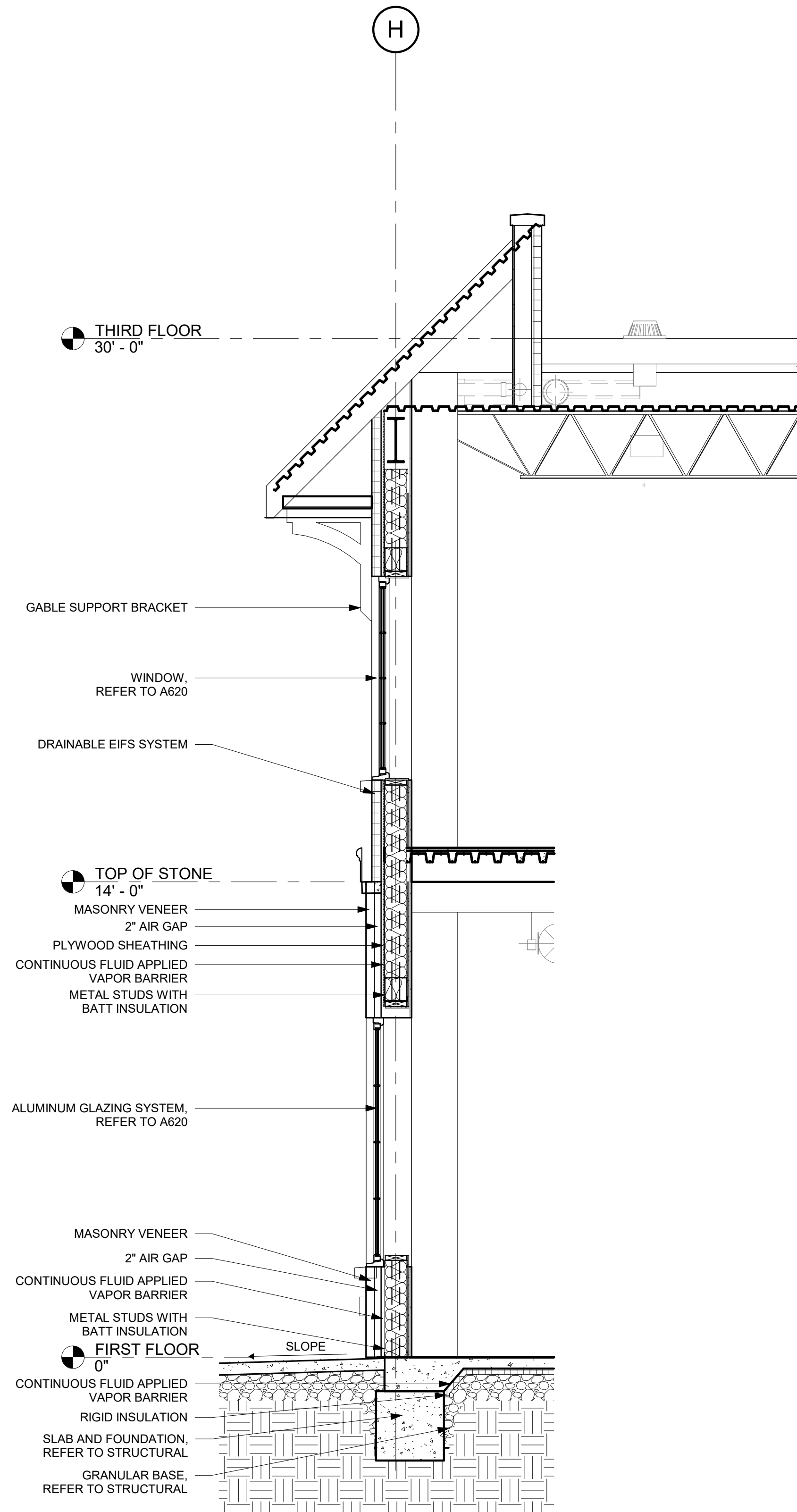


B WALL SECTION
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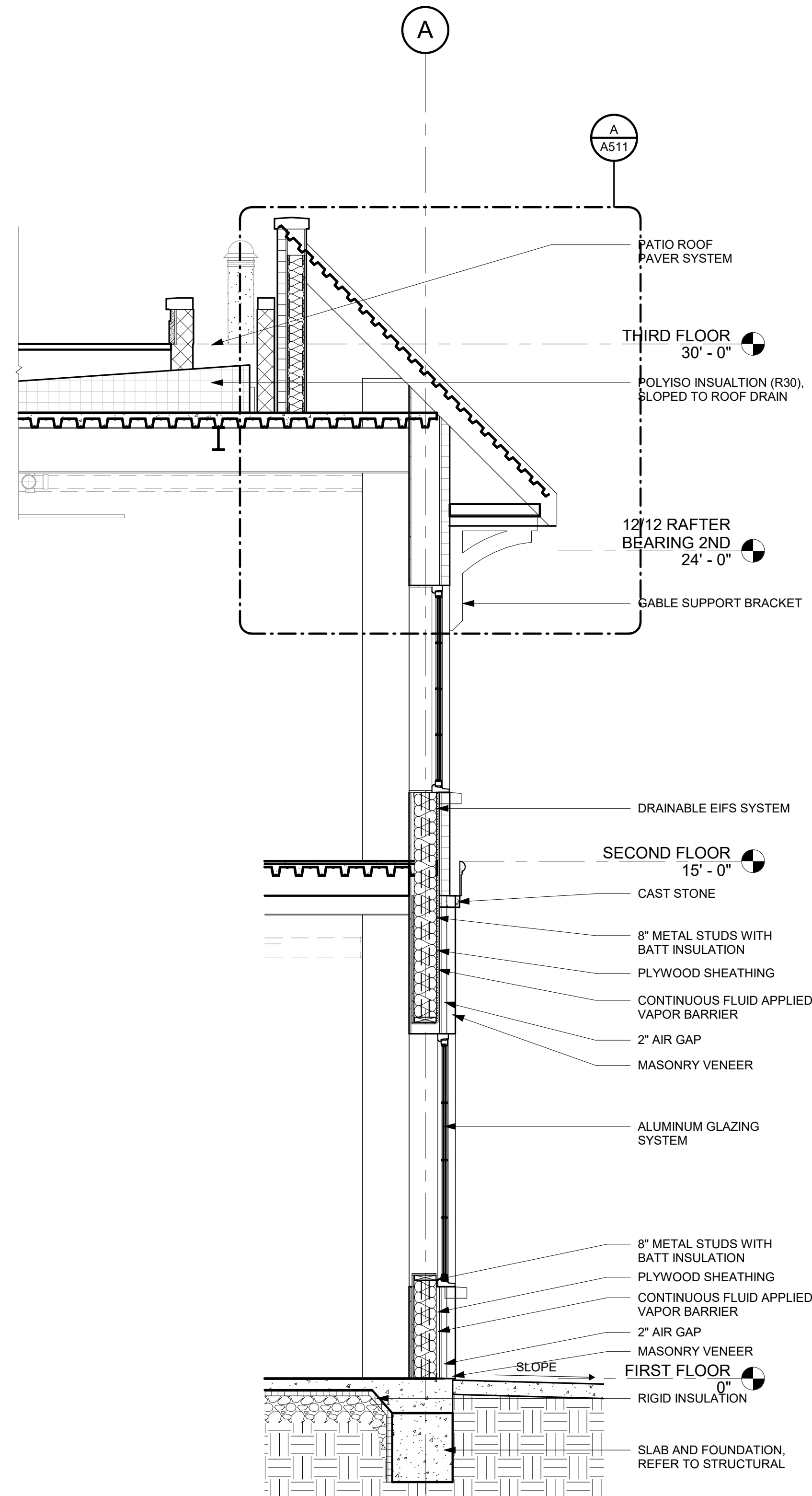


A WALL SECTION
3/8" = 1'-0"

8/7/2020 3:39:40 PM



B WALL SECTION
3/8" = 1'-0"



A WALL SECTION
3/8" = 1'-0"

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NO. DESCRIPTION DATE

SHEET NAME:
WALL SECTIONS

SHEET NUMBER:
A312

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ABBREVIATIONS:	NOTE:
C.F.C.I. = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	1. NOT ALL TOILET ACCESSORIES SHOWN ON ENLARGED PLANS; RE: INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS.
O.F.C.I. = OWNER FURNISHED, CONTRACTOR INSTALLED	2. PROVIDE IN-WALL BLOCKING FOR ALL PARTITIONS, GRAB BARS, AND SHOWER SEATS IF APPLICABLE.
O.F.O.I. = OWNER FURNISHED, OWNER INSTALLED	3. REFER TO TYPICAL MOUNTING HEIGHTS FOR LOCATIONS OF TOILET ACCESSORIES.
	4. REFER TO I0101 FOR INTERIOR FINISH INFORMATION.



TOILET ACCESSORIES

PLAN DESIGNATOR: TXX						
TAG	DESCRIPTION	C.F.C.I.	O.F.C.I.	O.F.O.I.	MANUFACTURER	MODEL NUMBER
T01	GLASS MIRROR WITH STAINLESS STEEL CHANNEL FRAME	O			BOBRICK	B-165 2436
T02	SURFACE-MOUNTED TOILET TISSUE DISPENSER, TWO ROLLS	O			BOBRICK	B-265
T03	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	O			BOBRICK	B-270
T04	RESTROOM PARTITIONS, FLOOR MOUNTED/OVERHEAD BRACED	O			BRADLEY	700 SERIES, 5WL METAL
T05	SHOWER CURTAIN AND ROD WITH HOOKS	O			BRADLEY	9539, 60"; 9533; 9536
T06	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS	O			BOBRICK	B-239X34
T07	SOAP DISPENSER, WALL-MOUNTED		O			
T08	SEMI-RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE	O			BOBRICK	B-3942
T09	RECESSED CHANGING TABLE, STAINLESS STEEL	O			BOBRICK	KB110-SSRE
T10	1-1/4" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	O			BOBRICK	B-5806X36
T11	1-1/4" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	O			BOBRICK	B-5806X42
T12	1-1/4" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	O			BOBRICK	B-5806X18
T13	INSULATED PIPE WRAP	O				
T14	ADA SHOWER GRAB BAR				BOBRICK	B-5837.99
T15	ADA SHOWER SEAT				BRADLEY	HDPE-9593

ABBREVIATIONS:
C.F.C.I. = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
O.F.C.I. = OWNER FURNISHED, CONTRACTOR INSTALLED
O.F.O.I. = OWNER FURNISHED, OWNER INSTALLED

NOTE:
1. NOT ALL TOILET ACCESSORIES SHOWN ON ENLARGED PLANS; RE: INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS.
2. PROVIDE IN-WALL BLOCKING FOR ALL PARTITIONS, GRAB BARS, AND SHOWER SEATS IF APPLICABLE.
3. REFER TO TYPICAL MOUNTING HEIGHTS FOR LOCATIONS OF TOILET ACCESSORIES.
4. REFER TO ID101 FOR INTERIOR FINISH INFORMATION.

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PROGRESS SET

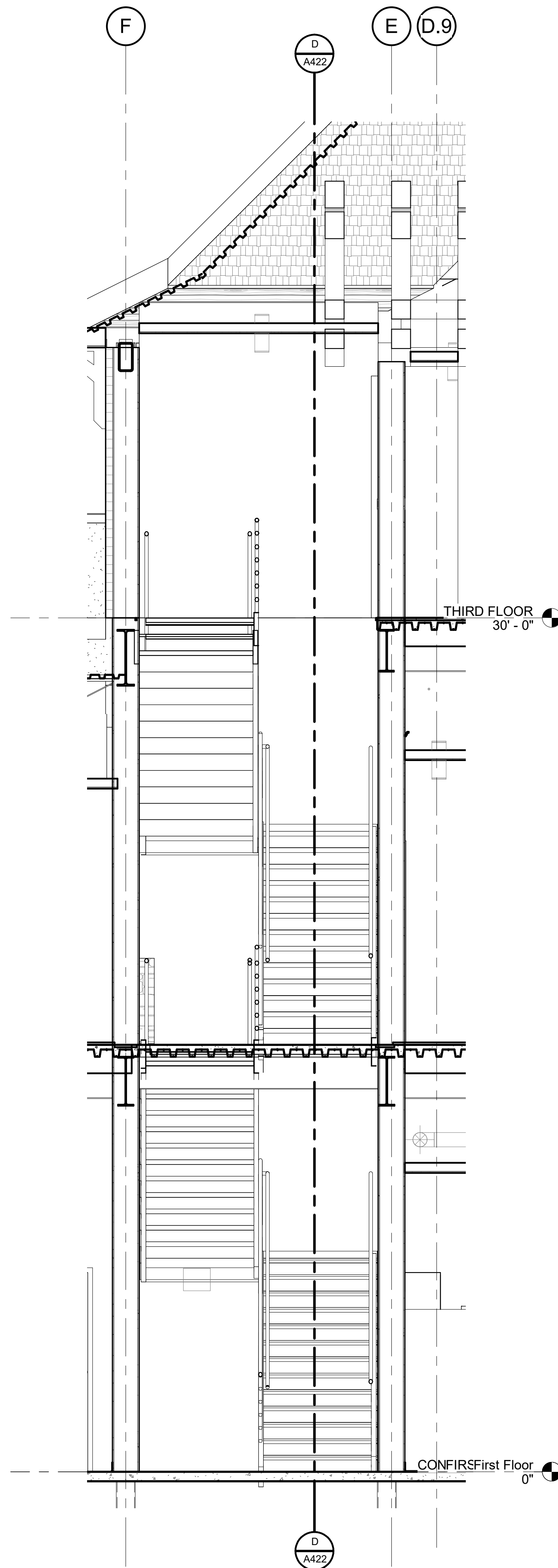
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ENLARGED TOILET
PLANS AND
ELEVATIONS

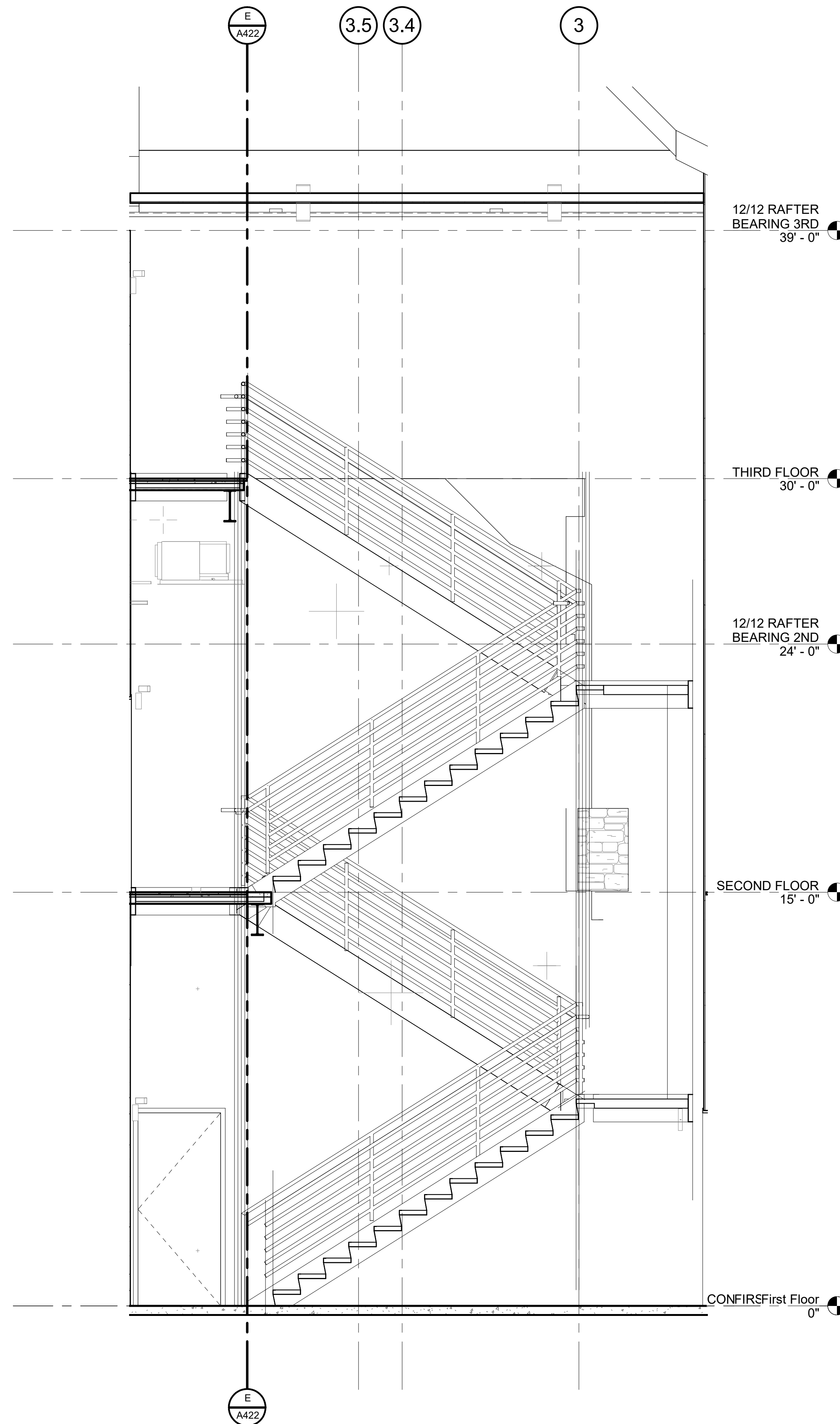
SHEET NUMBER:
A421

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E STAIR 2 SECTION
3/8" = 1'-0"



D STAIR 2 SECTION
3/8" = 1'-0"

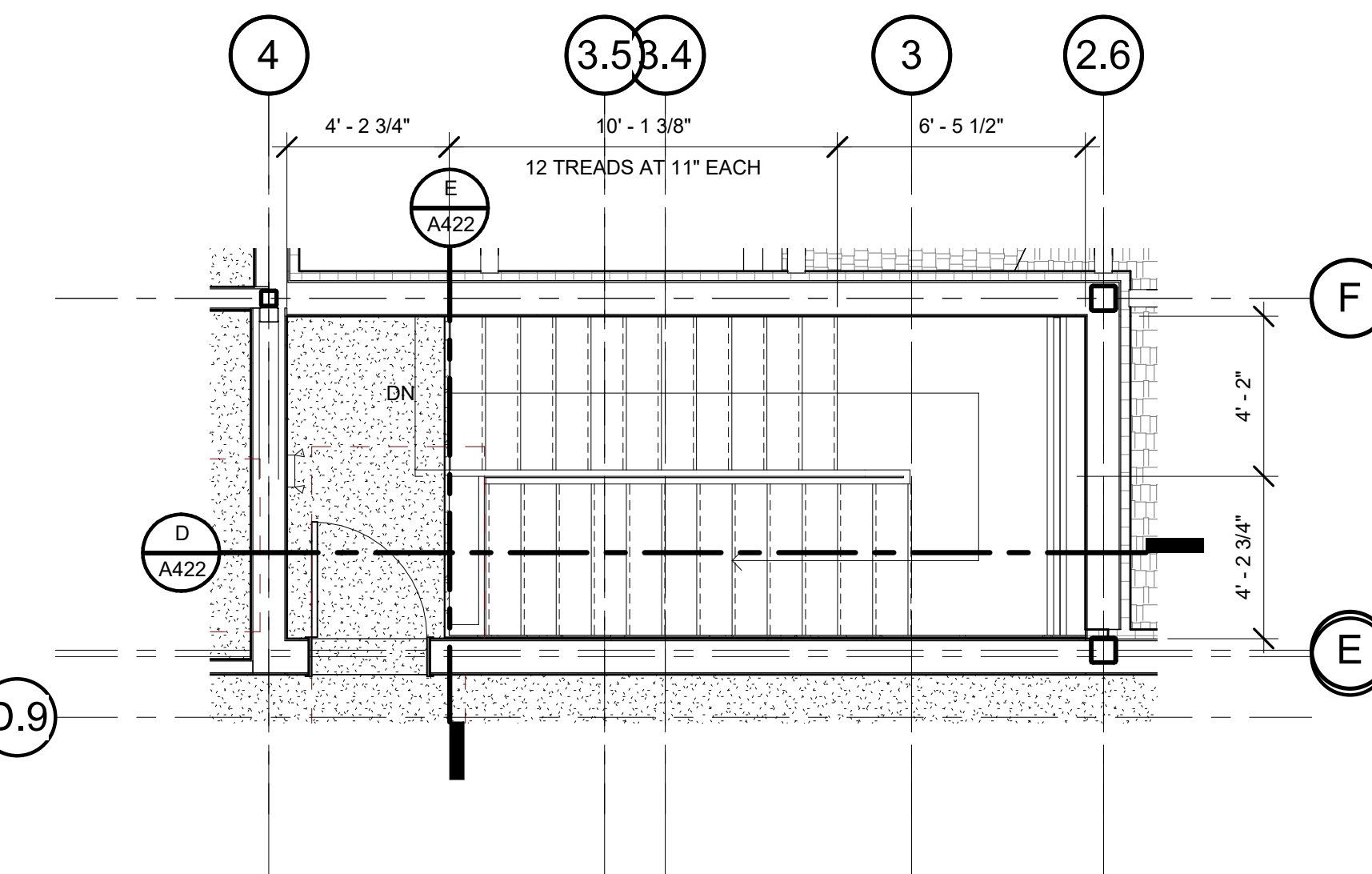
12/12 RAFTER
BEARING 3RD
39' - 0"

THIRD FLOOR
30' - 0"

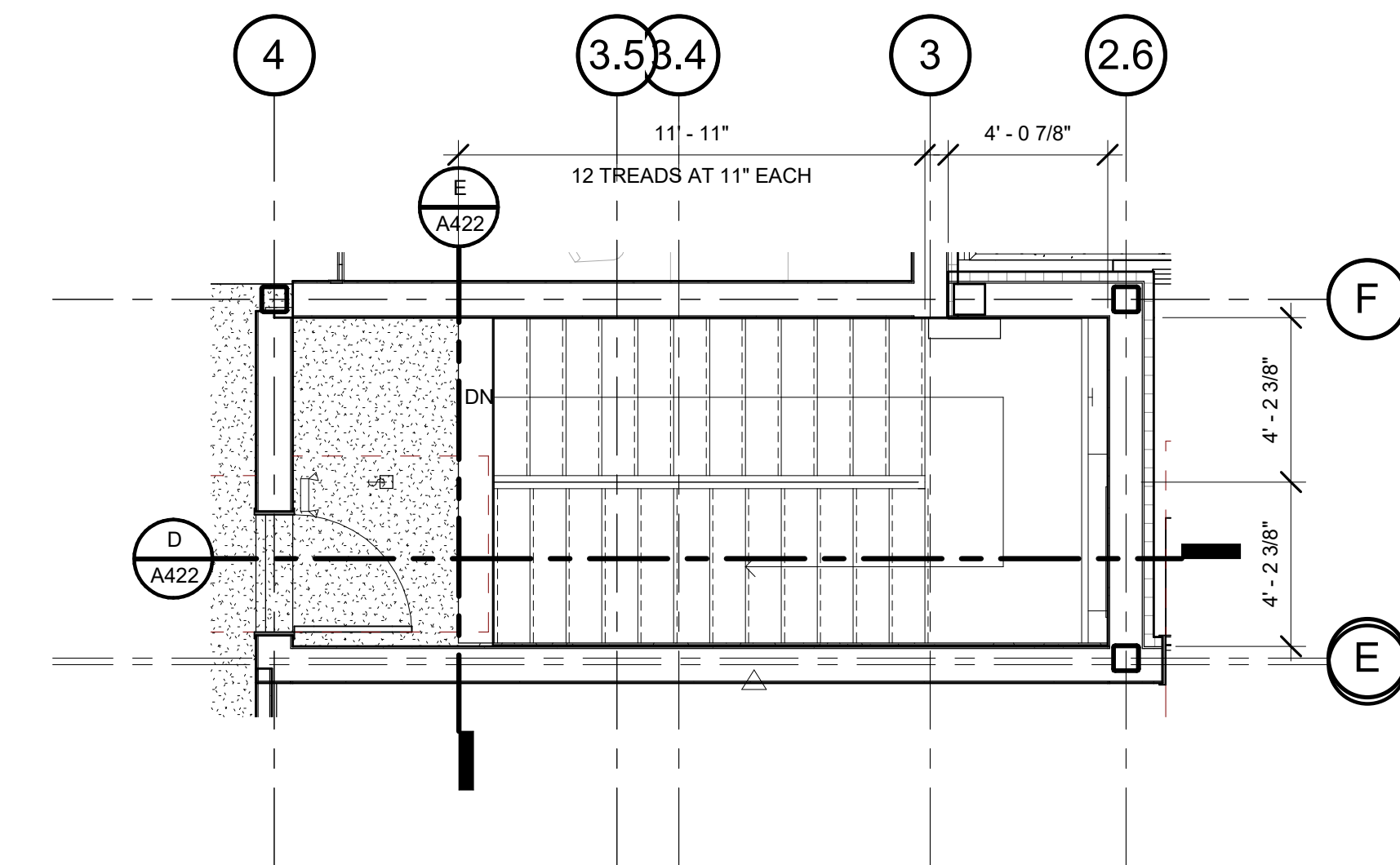
12/12 RAFTER
BEARING 2ND
24' - 0"

SECOND FLOOR
15' - 0"

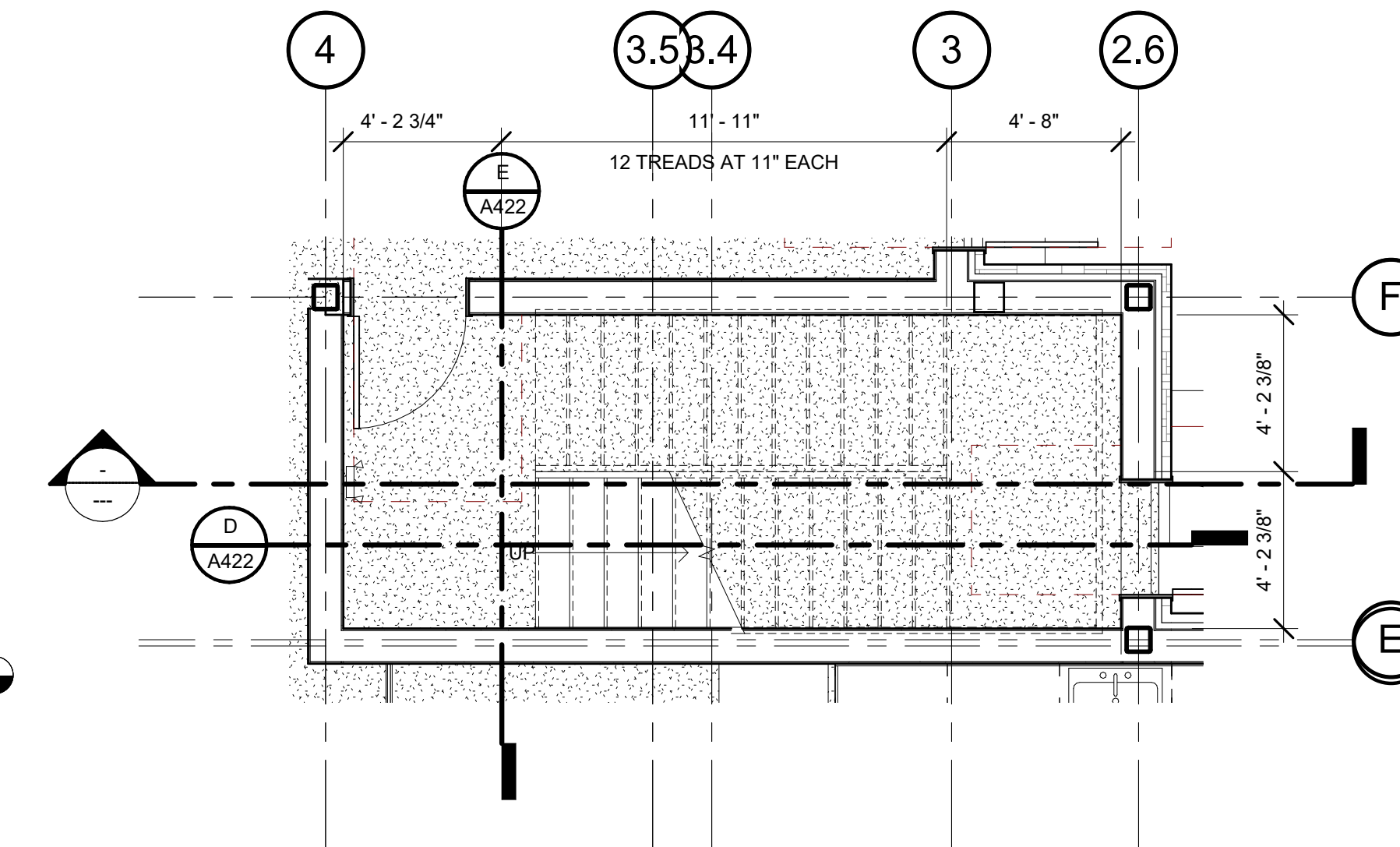
CONFIRFirst Floor
0"



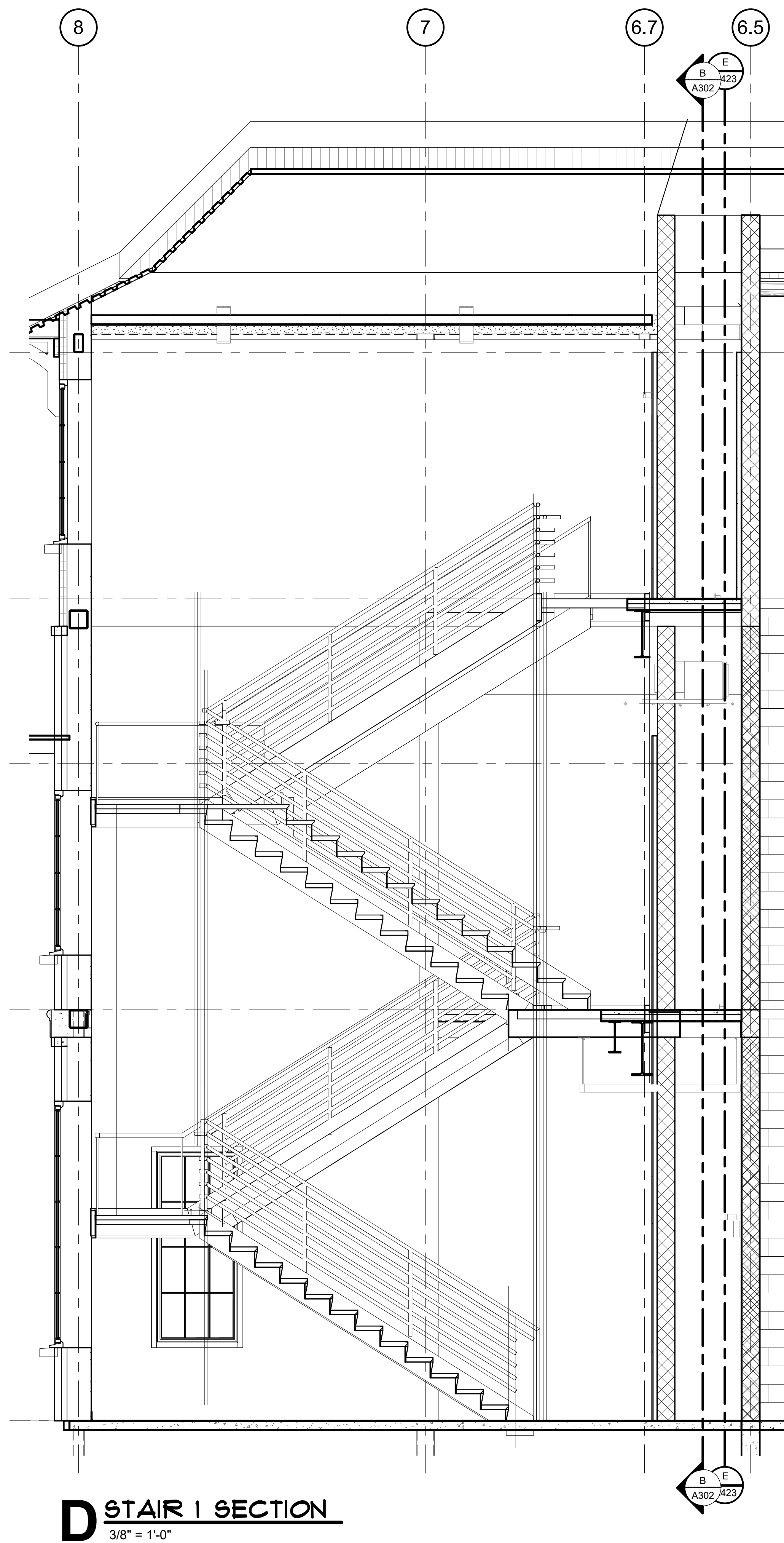
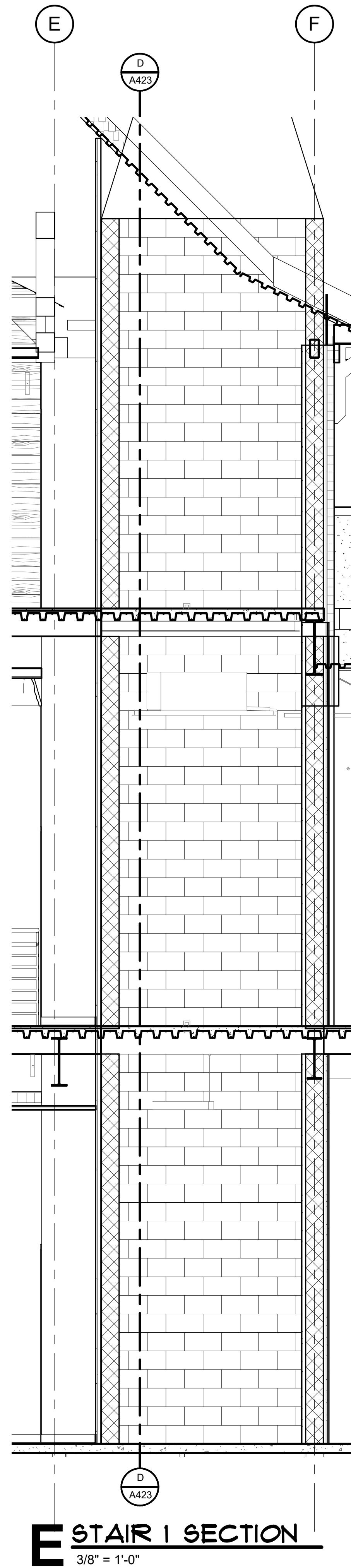
C STAIR 2 THIRD FLOOR
1/4" = 1'-0"



B STAIR 2 SECOND FLOOR
1/4" = 1'-0"



A STAIR 2 FIRST FLOOR
1/4" = 1'-0"



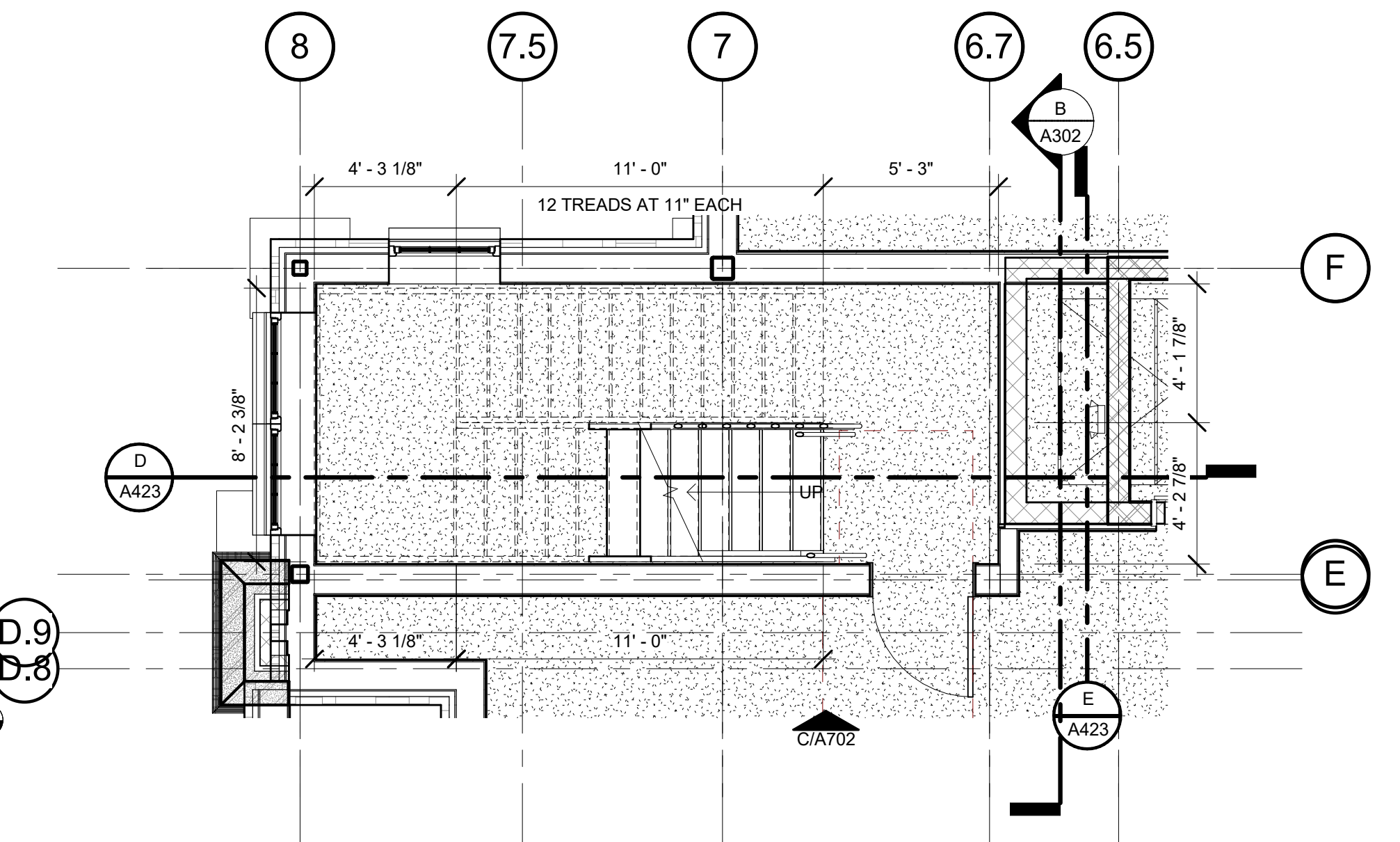
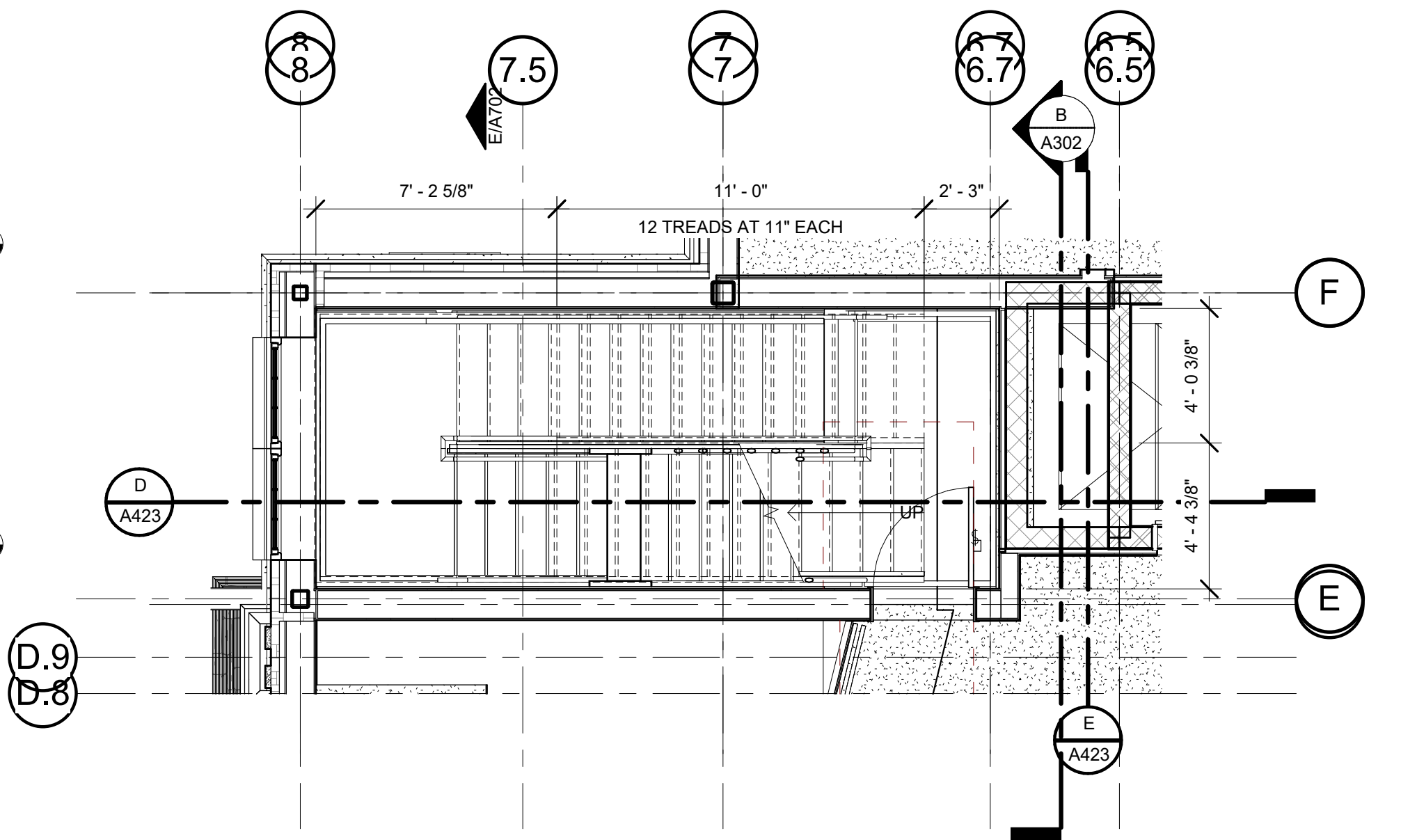
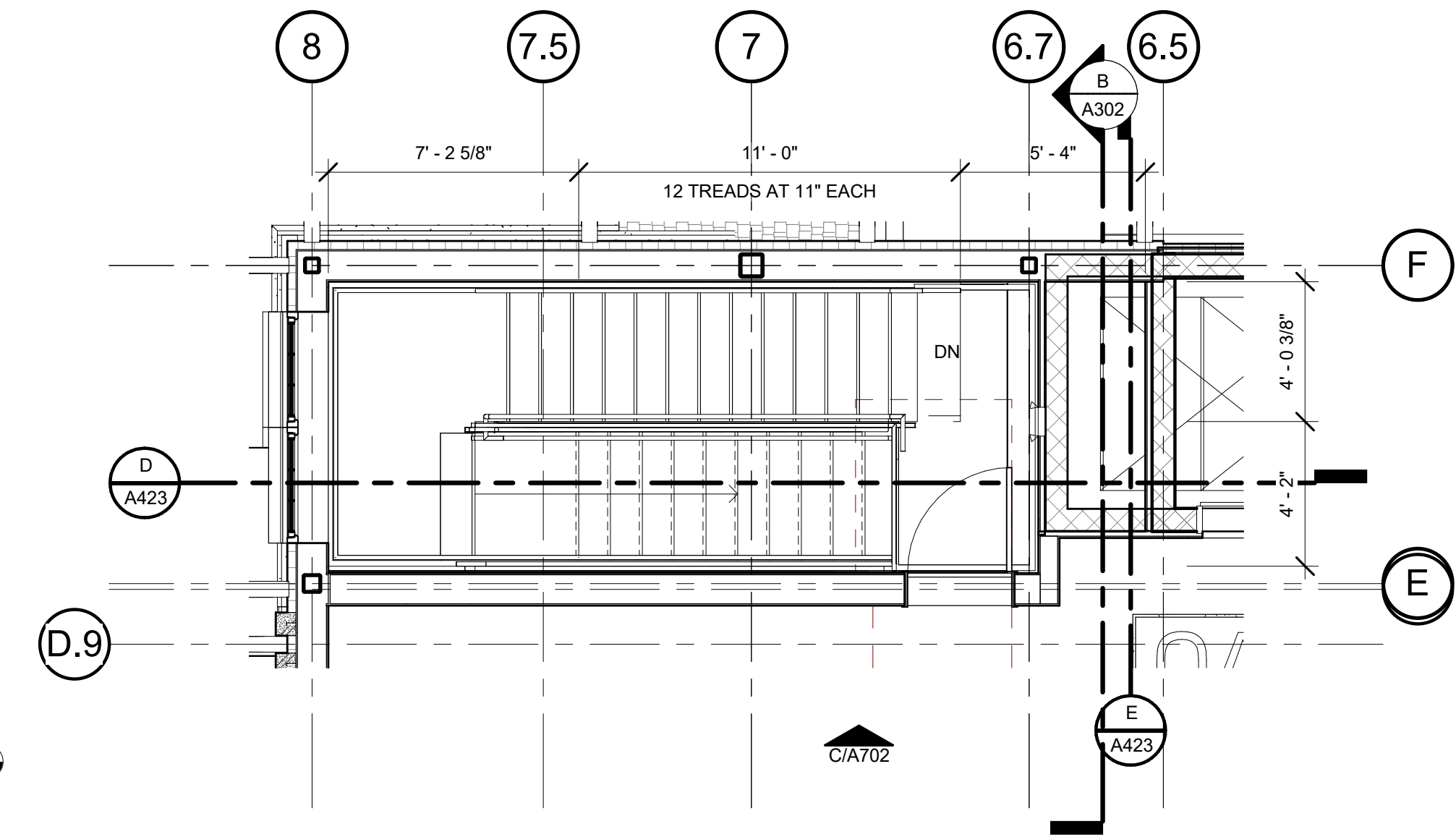
12/12 RAFTER
BEARING 3RD
39' - 0"

THIRD FLOOR
30' - 0"

12/12 RAFTER
BEARING 2ND
24' - 0"

SECOND FLOOR
15' - 0"

CONFIRFirst Floor
0"



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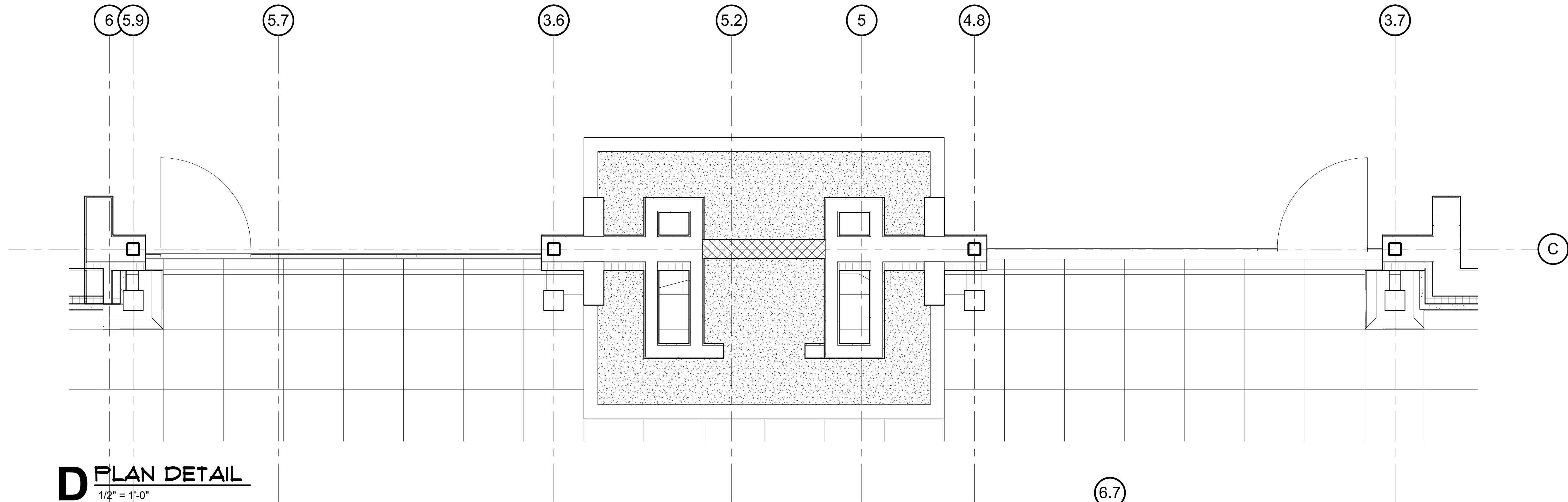
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PLAN DETAILS

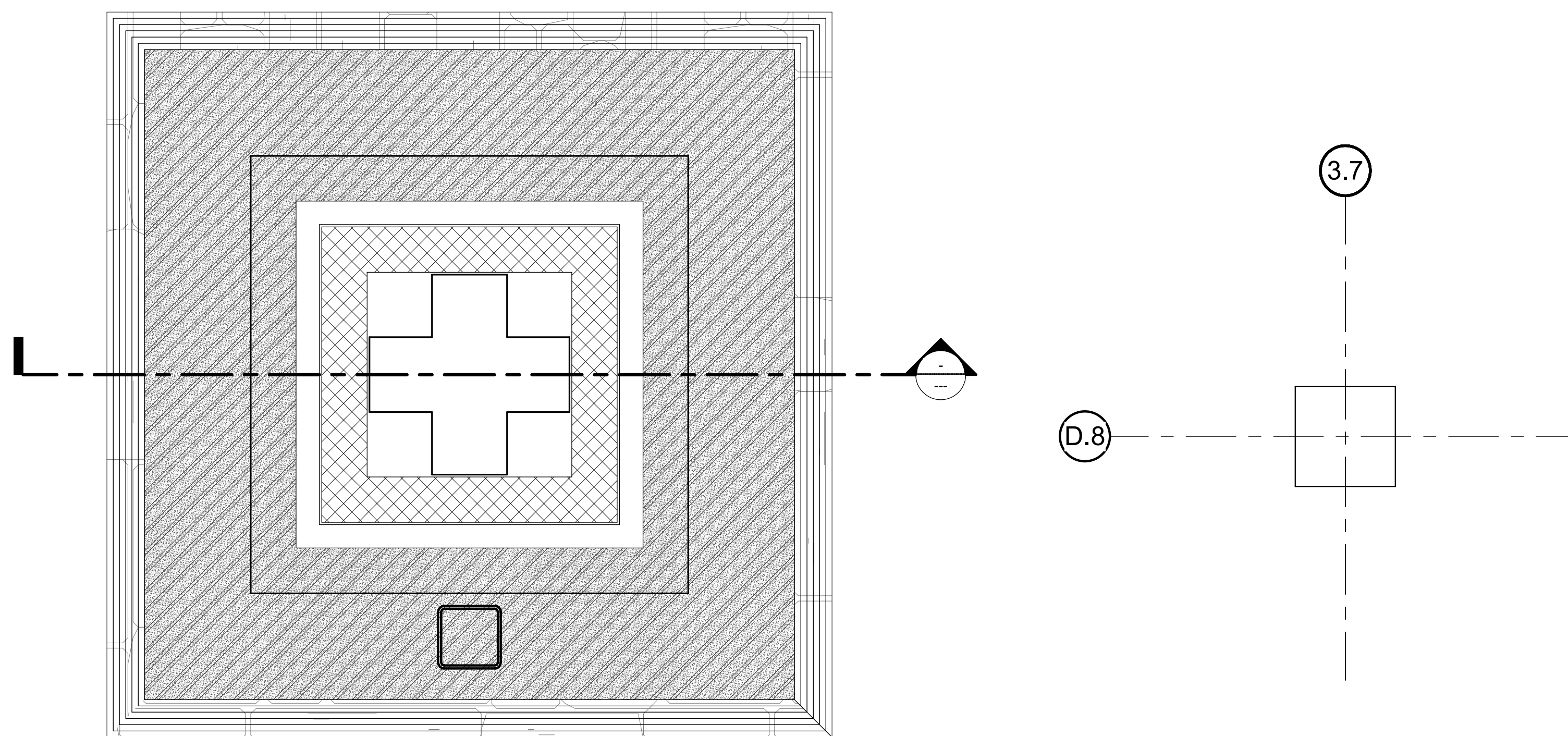
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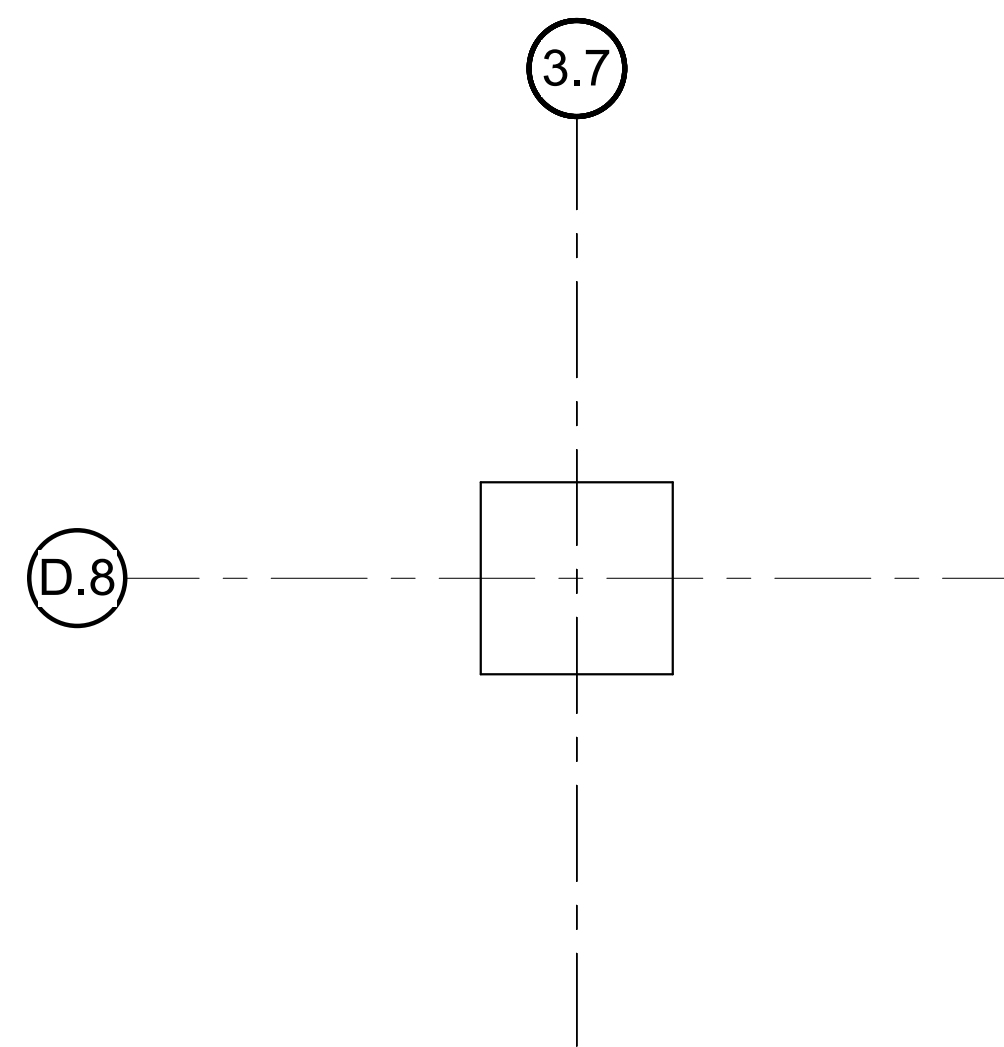
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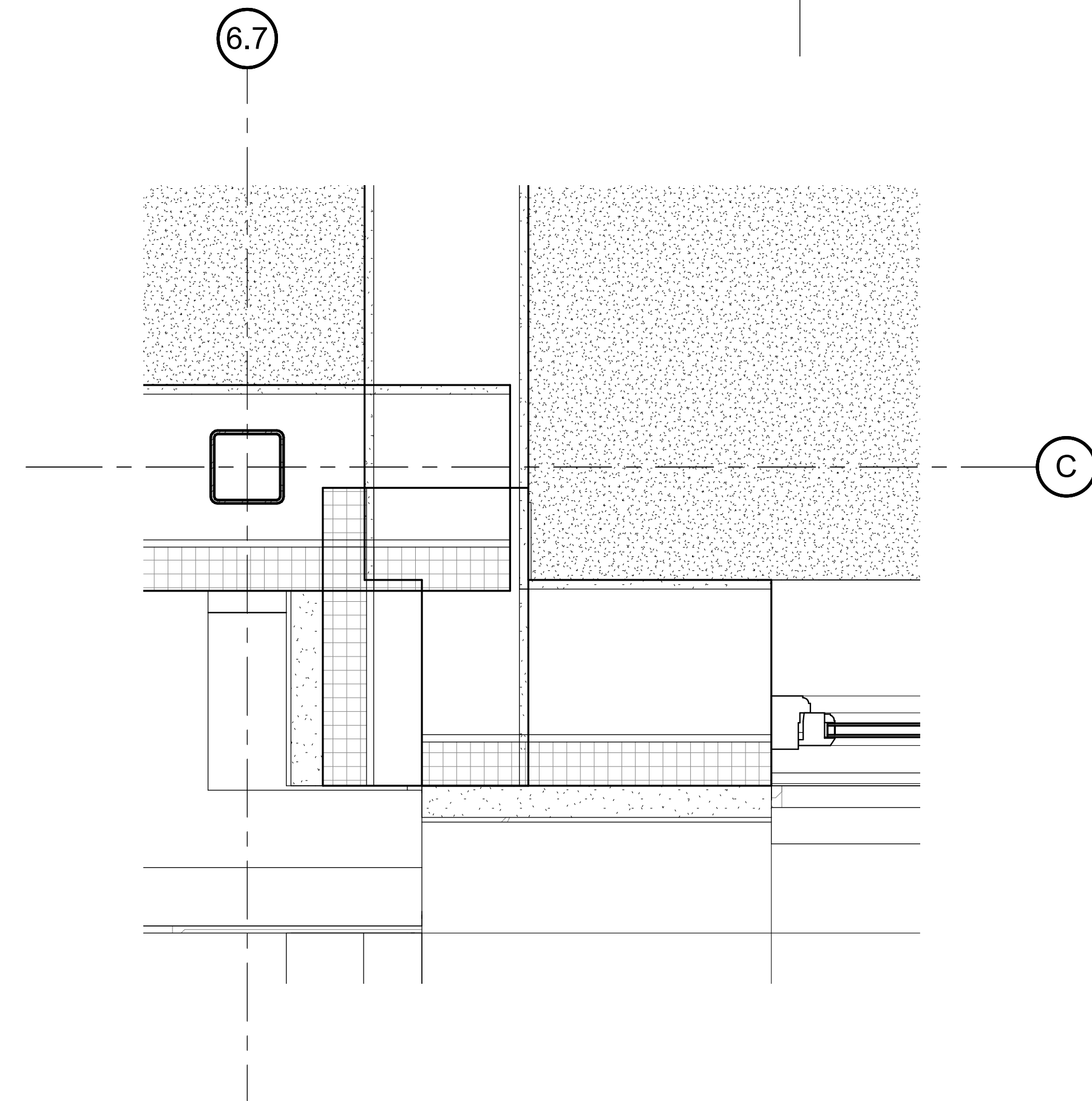
D PLAN DETAIL
1/2" = 1'-0"



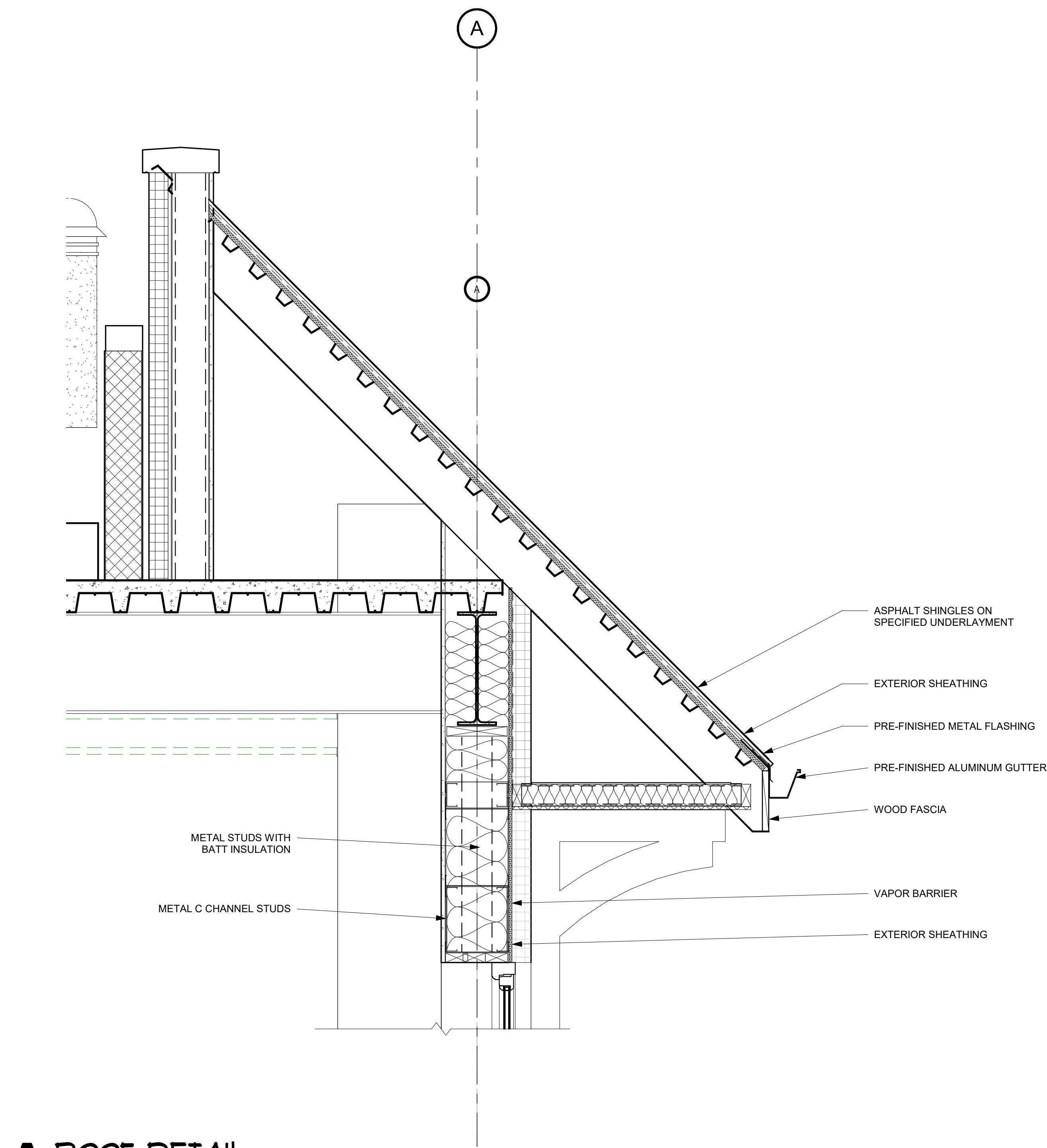
C PLAN DETAIL
1 1/2" = 1'-0"



B PLAN DETAIL
1 1/2" = 1'-0"



A PLAN DETAIL
1 1/2" = 1'-0"



A ROOF DETAIL
1" = 1'-0"

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PROGRESS SET

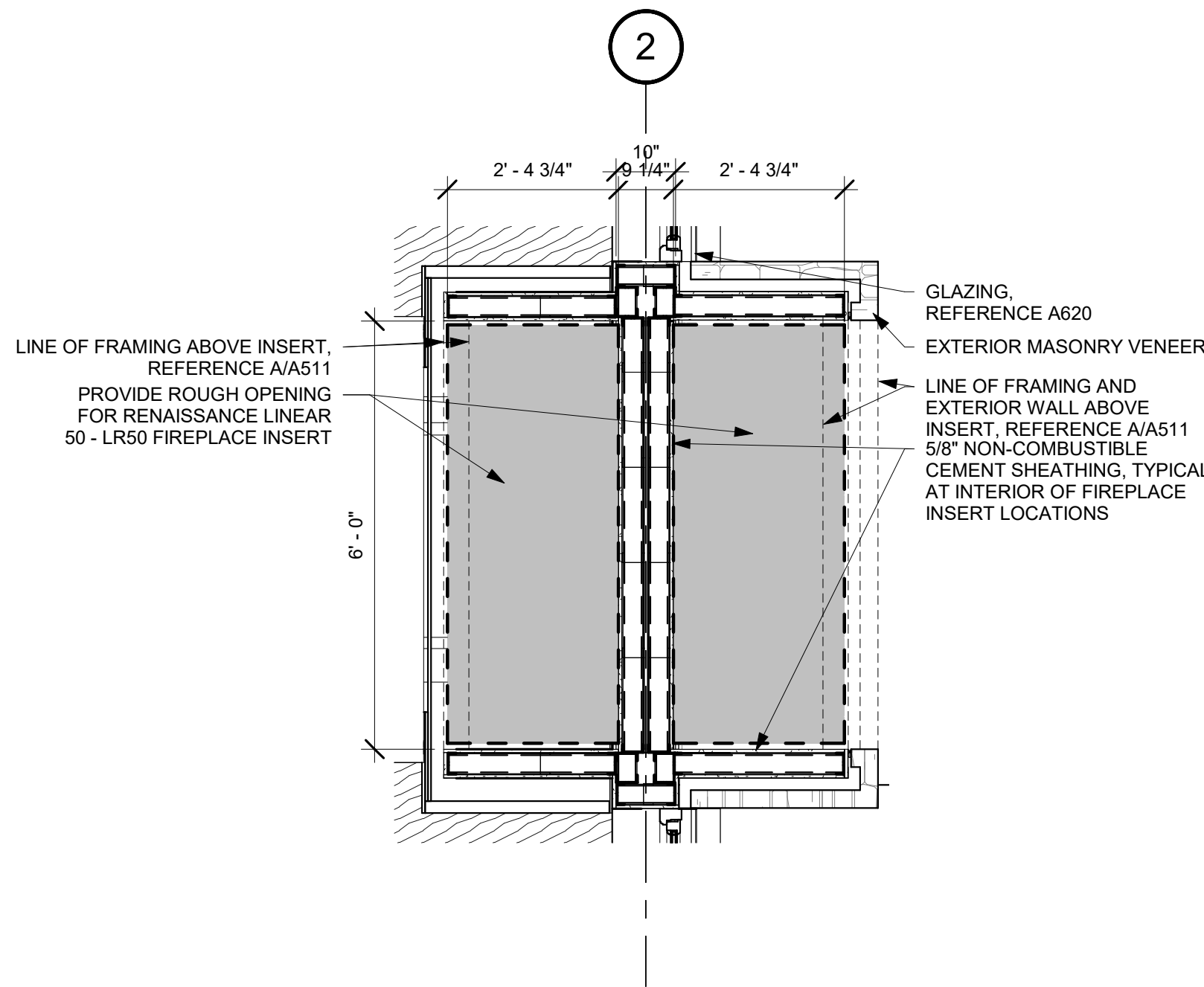
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SHEET NAME:
WALL DETAILS

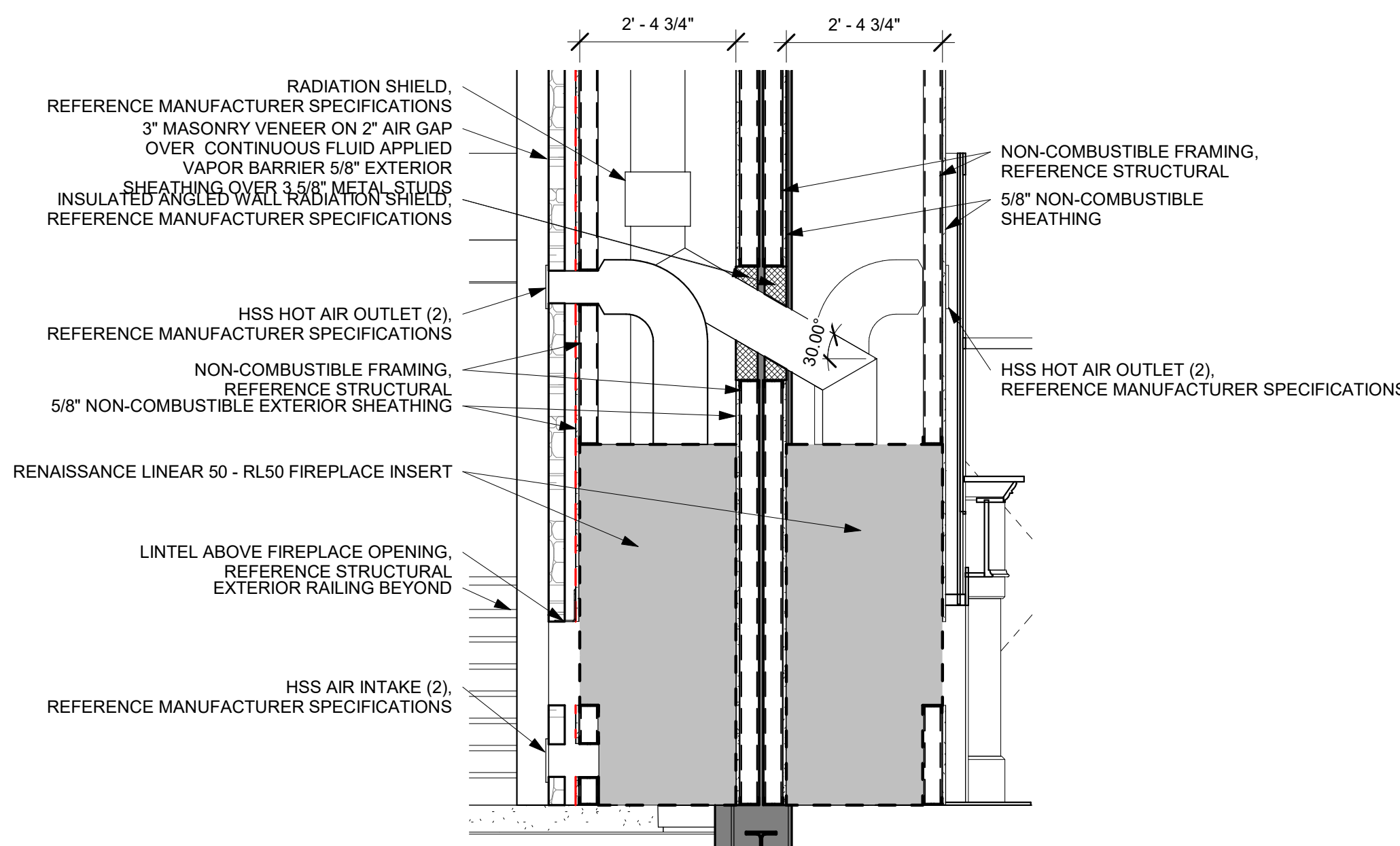
SHEET NUMBER:
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DOOR SCHEDULE

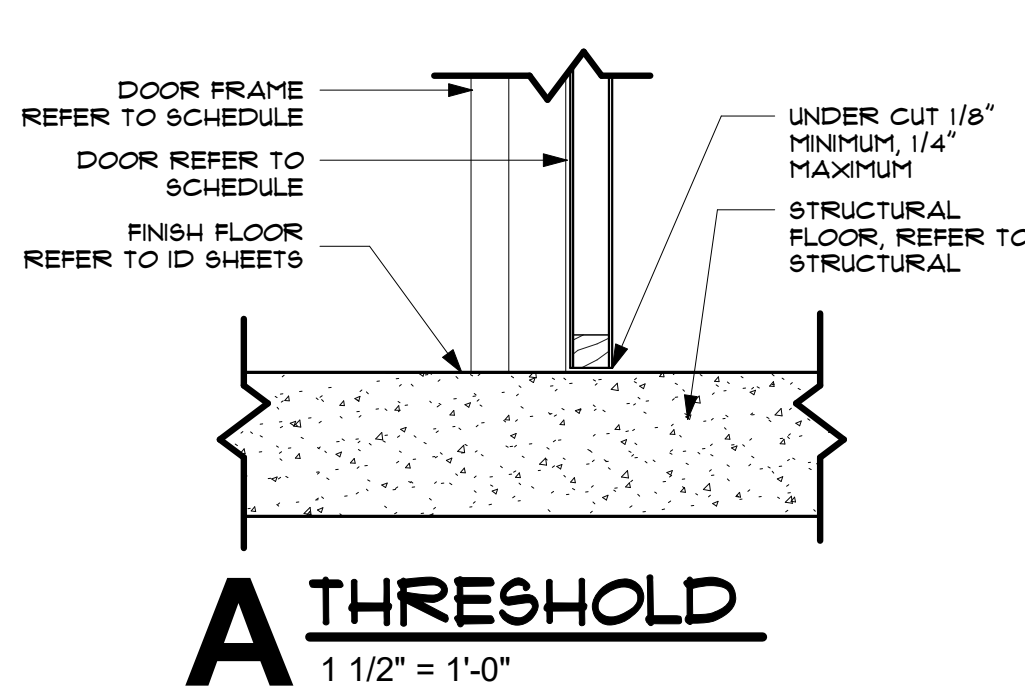
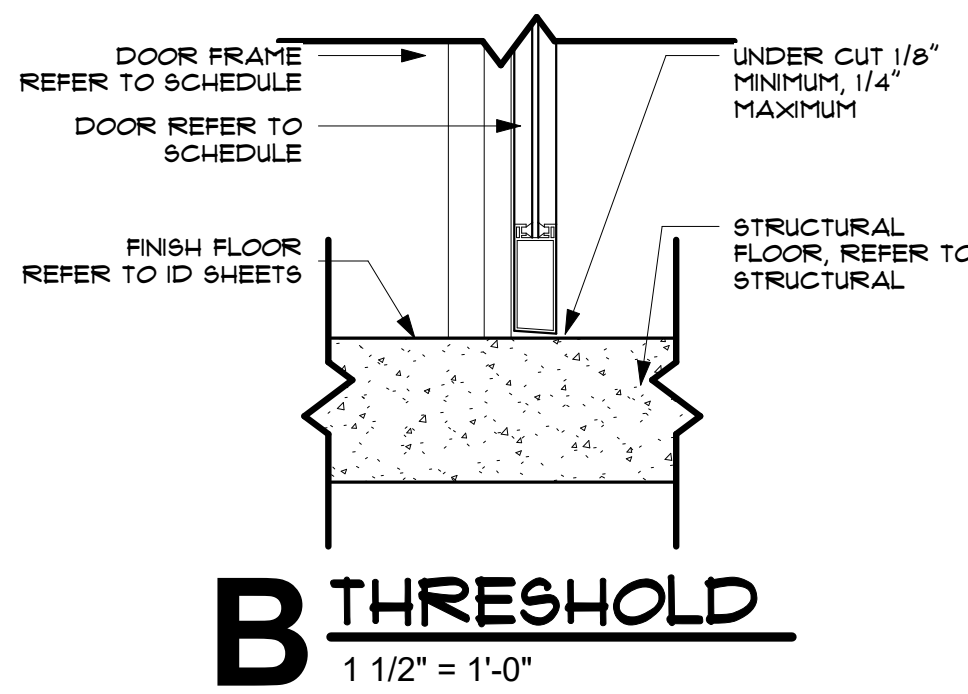
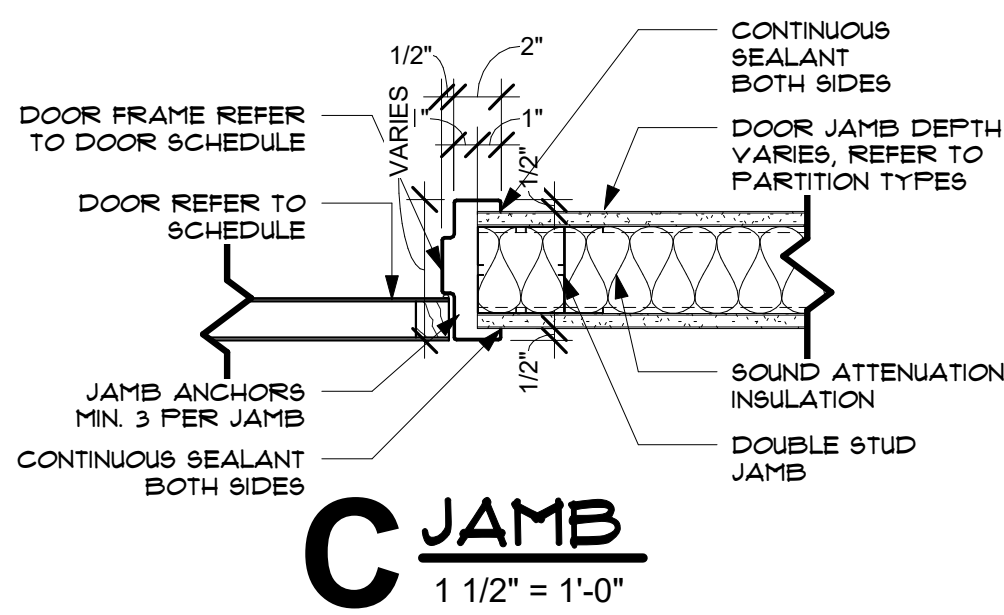
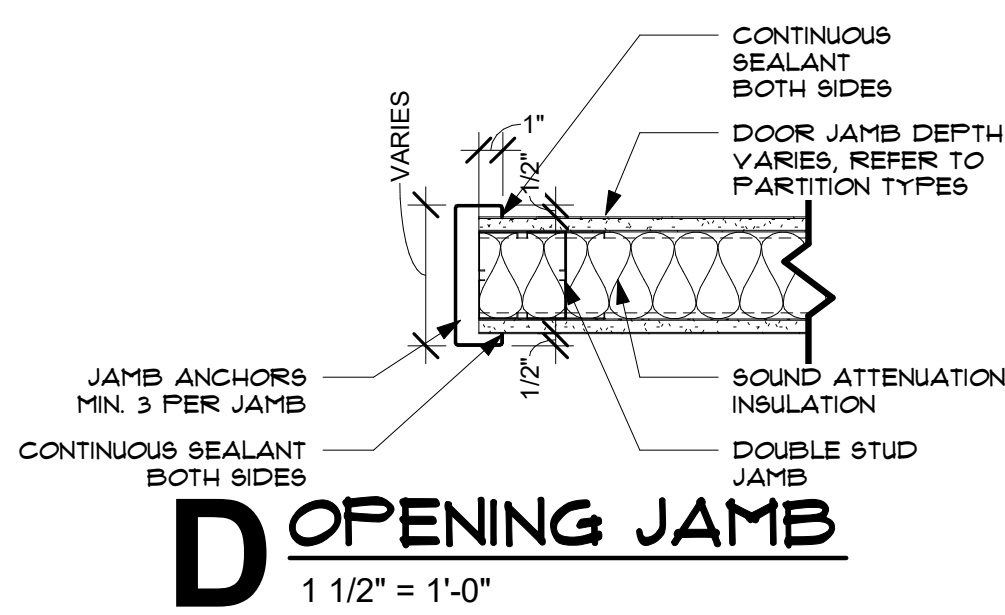
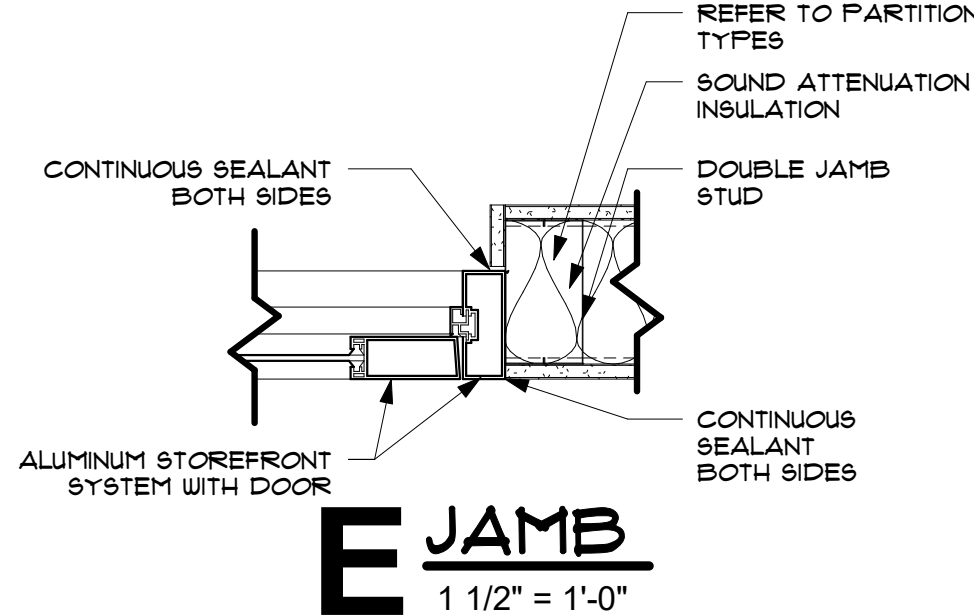
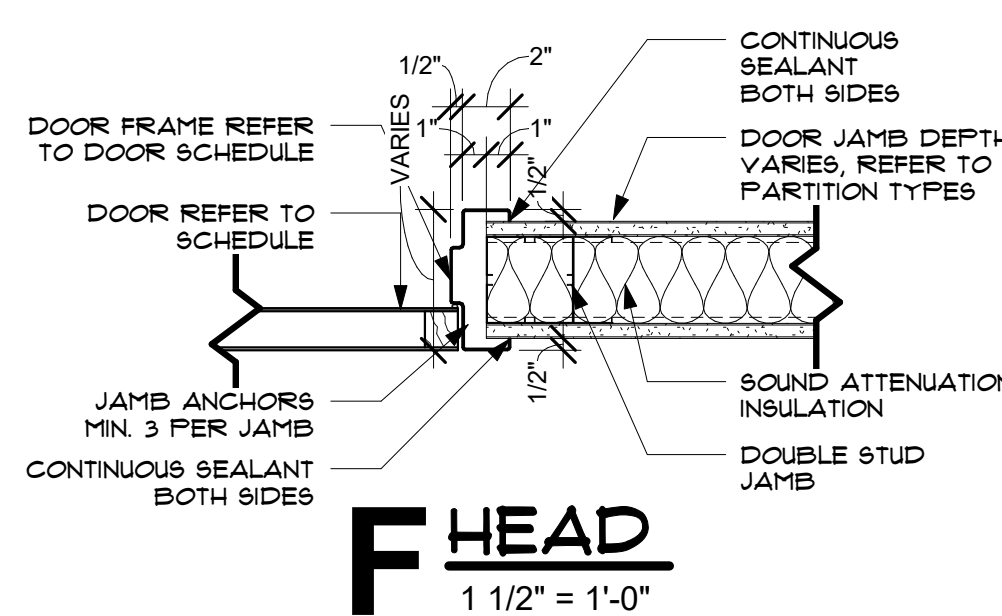
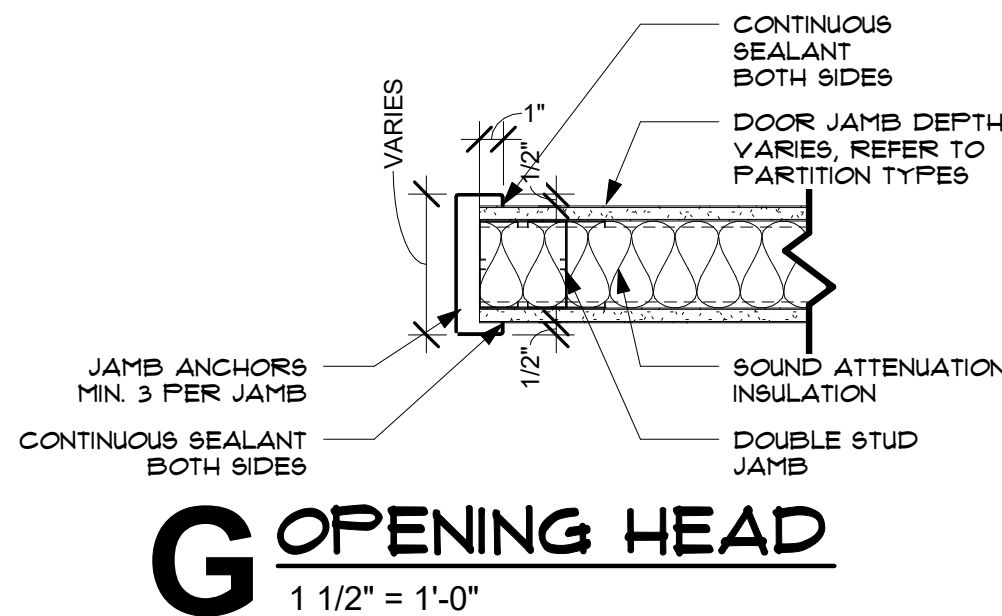
NUMBER	WIDTH	HEIGHT	MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	COMMENTS
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001B	3' - 0"	7' - 0"						HOLLOW METAL
001C	3' - 0"	7' - 0"						HOLLOW METAL
002A	3' - 0"	7' - 0"						HOLLOW METAL
002B	3' - 0"	7' - 0"						HOLLOW METAL
002C	3' - 0"	7' - 0"						HOLLOW METAL
002D	3' - 0"	7' - 0"						HOLLOW METAL
100A	6' - 0"	10' - 0"						ALUMINUM
100B	2' - 11"	8' - 8"						ALUMINUM
101G	3' - 0"	7' - 0"						
102A	3' - 0"	8' - 8"						
102B	3' - 0"	8' - 8"						ALUMINUM
102C	3' - 0"	8' - 8"						ALUMINUM
103	3' - 0"	7' - 0"						HOLLOW METAL
104A	3' - 0"	8' - 8"						ALUMINUM
104B	3' - 0"	7' - 0"						HOLLOW METAL
105	3' - 0"	8' - 8"						ALUMINUM
106	3' - 0"	7' - 0"						HOLLOW METAL
107	3' - 1"	8' - 8"						ALUMINUM
108	3' - 0"	7' - 0"						HOLLOW METAL
109	3' - 0"	7' - 0"						HOLLOW METAL
111A	3' - 0"	8' - 8"						ALUMINUM
111B	3' - 0"	8' - 8"						ALUMINUM
111C	3' - 0"	7' - 0"						HOLLOW METAL
112	3' - 0"	7' - 0"						HOLLOW METAL
113	3' - 0"	7' - 0"						HOLLOW METAL
114	3' - 0"	7' - 0"						HOLLOW METAL
115A	3' - 0"	8' - 8"						ALUMINUM
115B	3' - 0"	7' - 0"						HOLLOW METAL
116	3' - 0"	8' - 8"						ALUMINUM
117	3' - 0"	8' - 8"						ALUMINUM
118	3' - 0"	8' - 8"						ALUMINUM
201A	3' - 0"	7' - 0"						HOLLOW METAL
201B	3' - 0"	7' - 0"						HOLLOW METAL
202A	3' - 0"	7' - 0"						HOLLOW METAL
202B	3' - 0"	7' - 0"						HOLLOW METAL
203	3' - 0"	7' - 10 3/4"						ALUMINUM
204	3' - 0"	7' - 10 3/4"						ALUMINUM
205	3' - 0"	7' - 0"						HOLLOW METAL
206	3' - 0"	7' - 0"						HOLLOW METAL
207	3' - 0"	7' - 0"						HOLLOW METAL
208	3' - 0"	7' - 0"						HOLLOW METAL
209	3' - 0"	7' - 0"						HOLLOW METAL
210A	3' - 0"	7' - 0"						
210B	3' - 0"	7' - 0"						HOLLOW METAL
210C	3' - 0"	7' - 0"						HOLLOW METAL
211	3' - 0"	7' - 0"						HOLLOW METAL
213	3' - 0"	7' - 0"						HOLLOW METAL
214	3' - 0"	8' - 4"						ALUMINUM
215	3' - 1"	8' - 4"						ALUMINUM
216	3' - 1"	8' - 8"						ALUMINUM
217	3' - 0"	8' - 4"						ALUMINUM
218	3' - 1"	8' - 4"						ALUMINUM
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3021A	3' - 0"	7' - 4"						
302B	3' - 0"	7' - 8"						
305	8' - 0"	8' - 0"						
306A	3' - 0"	7' - 0"						HOLLOW METAL
306B	3' - 0"	7' - 0"						HOLLOW METAL
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308	3' - 0"	7' - 0"						HOLLOW METAL
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Y PLAN DETAIL
1/2" = 1'-0"

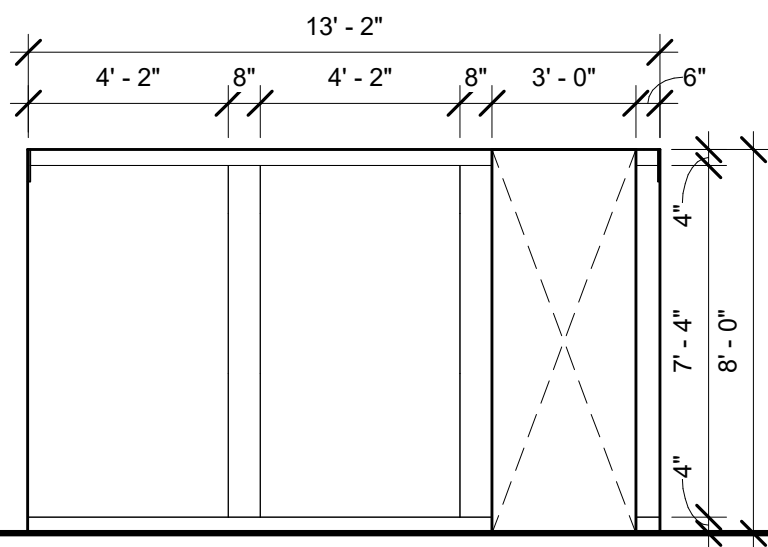


X FIREPLACE DETAIL
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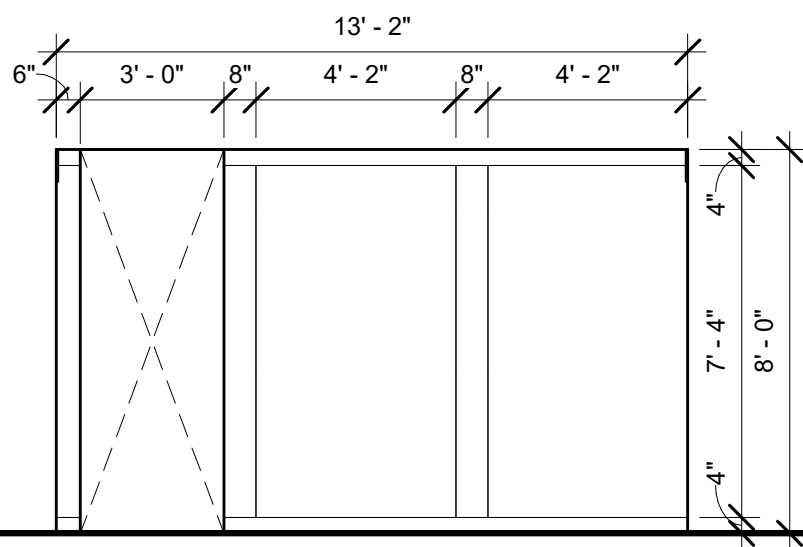


GLAZING TYPES

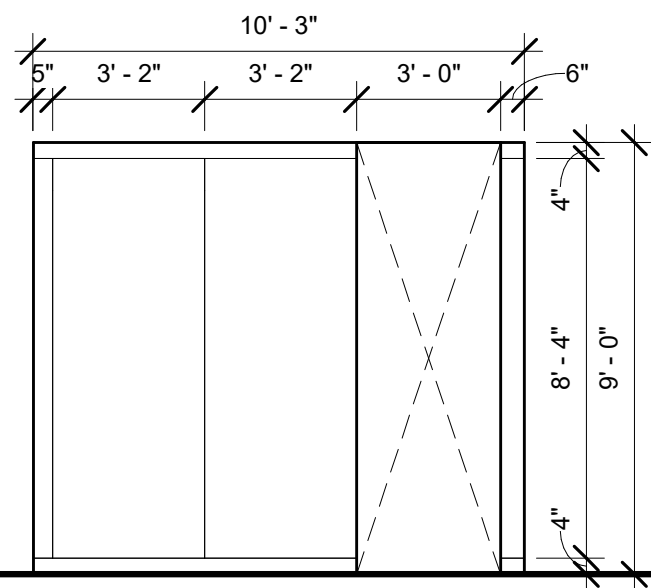
- G1 ALL INTERIOR GLAZING TO BE 1/4" TEMPERED GLAZING UNLESS NOTED OTHERWISE
- G-2 ALL EXTERIOR GLAZING TO BE 1" INSULATED LOW E TEMPERED GLAZING. REFER TO SPECIFICATIONS, UNLESS NOTED OTHERWISE



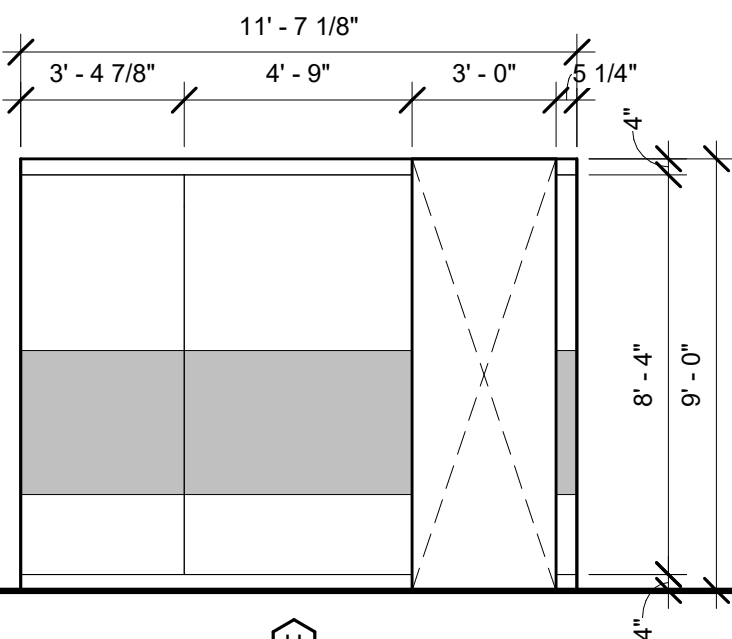
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EXTERIOR GLAZING SYSTEM



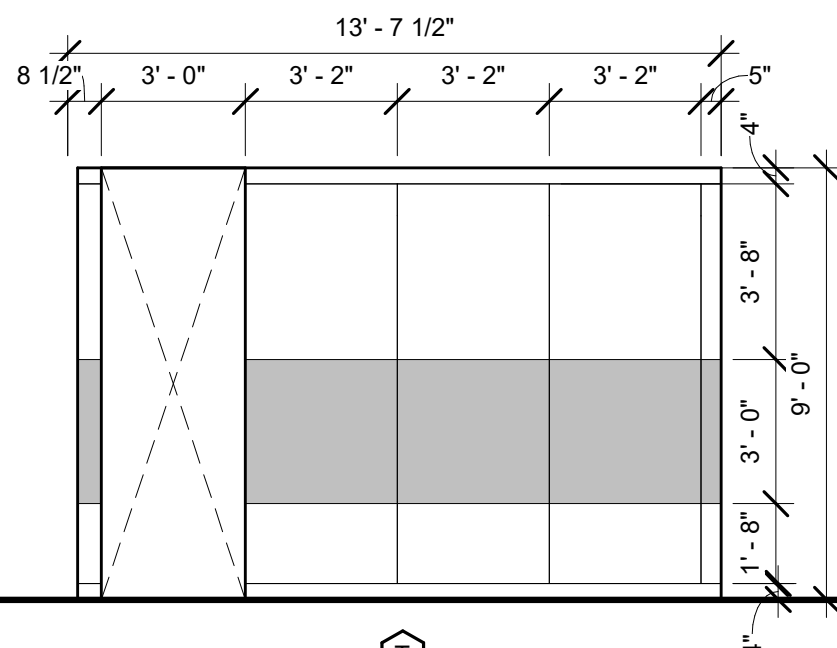
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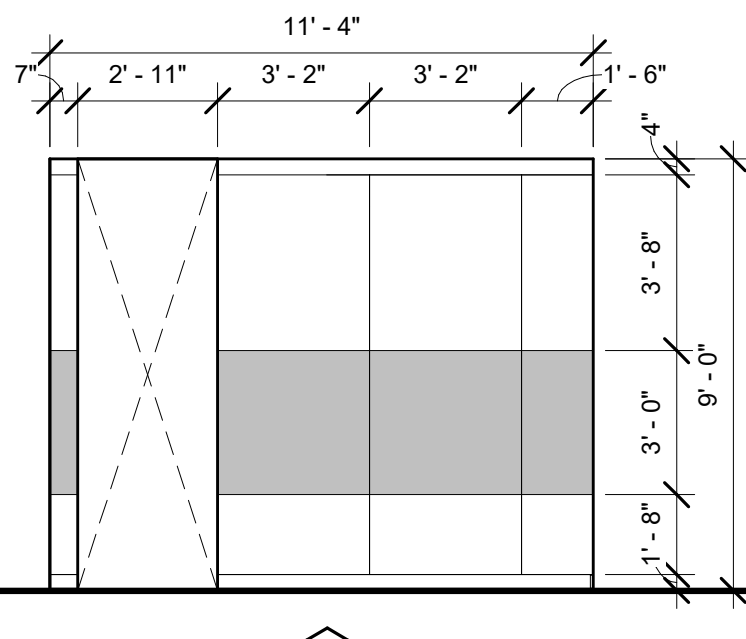
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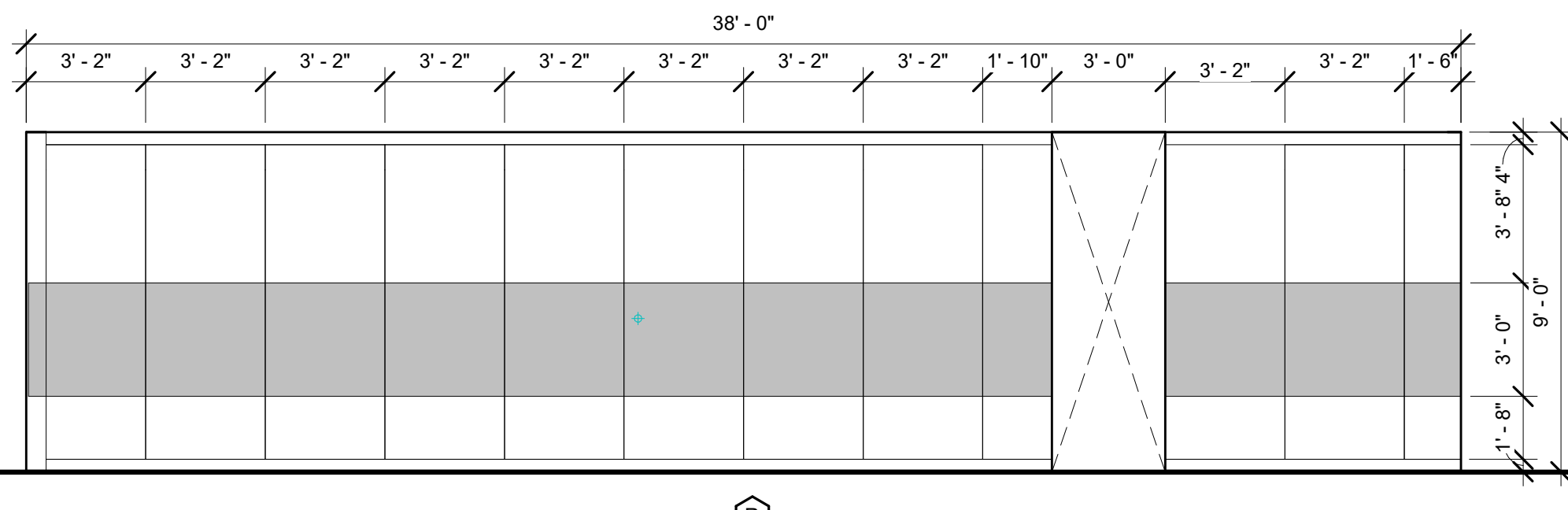
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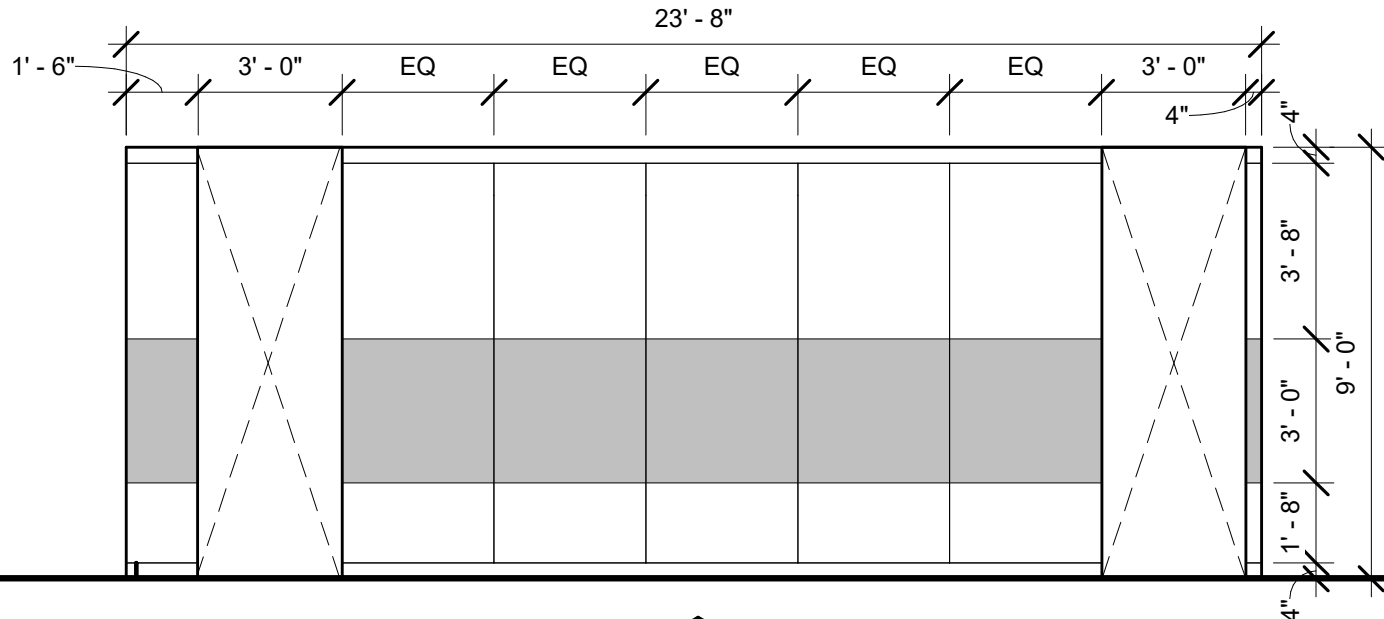
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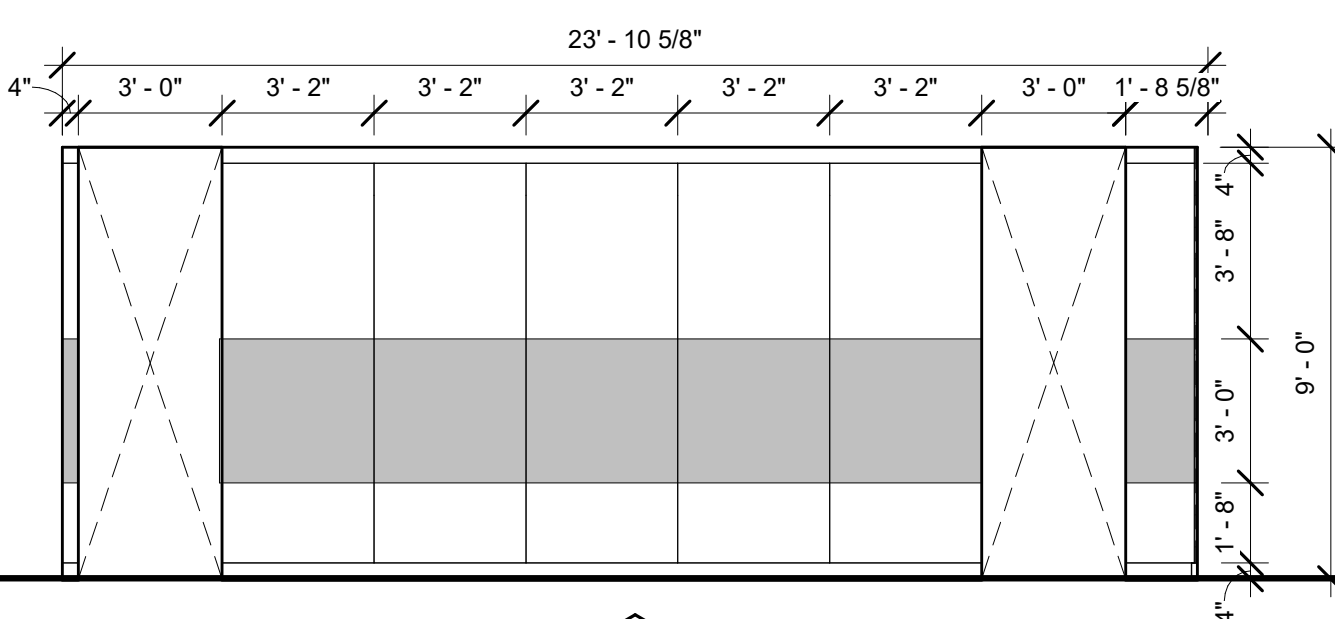
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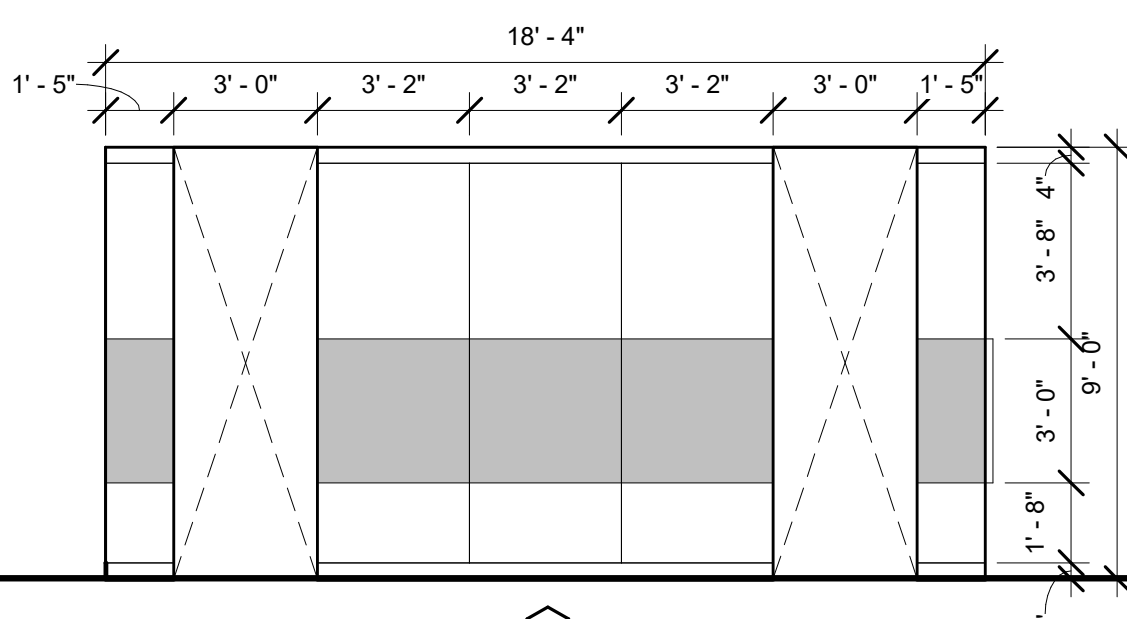
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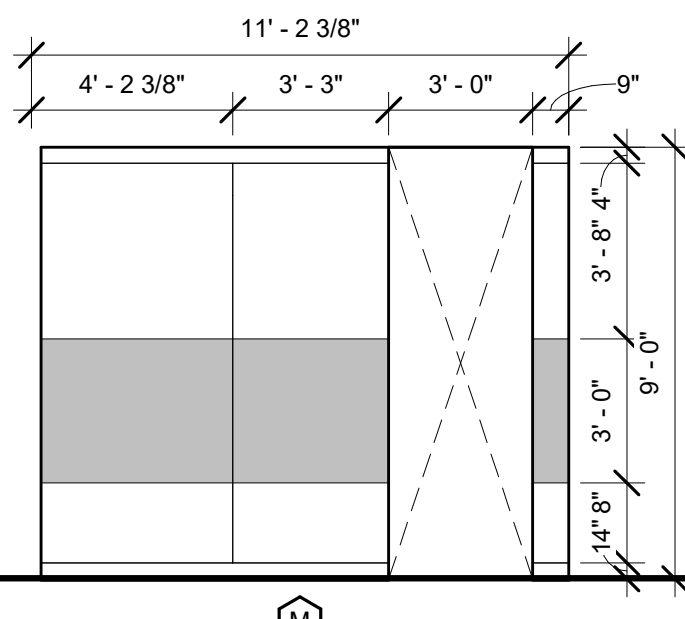
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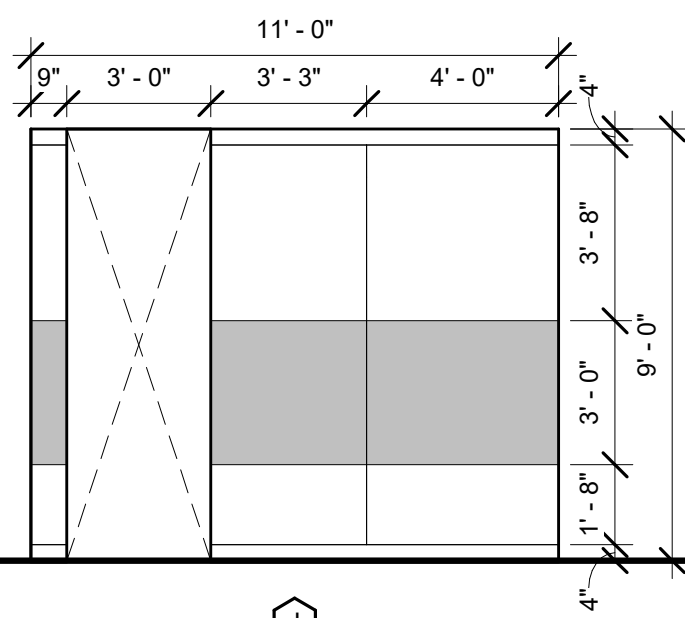
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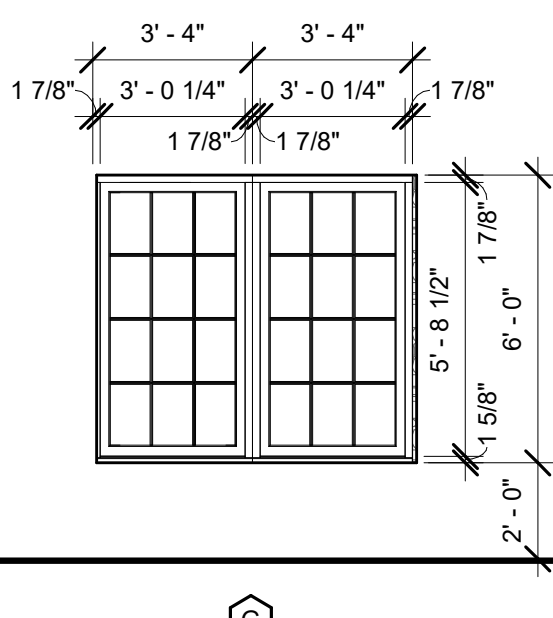
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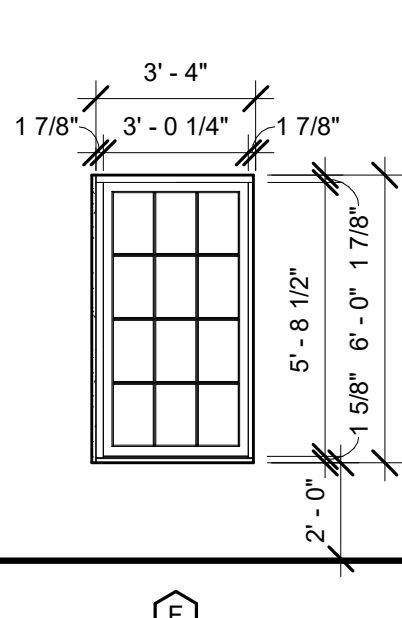
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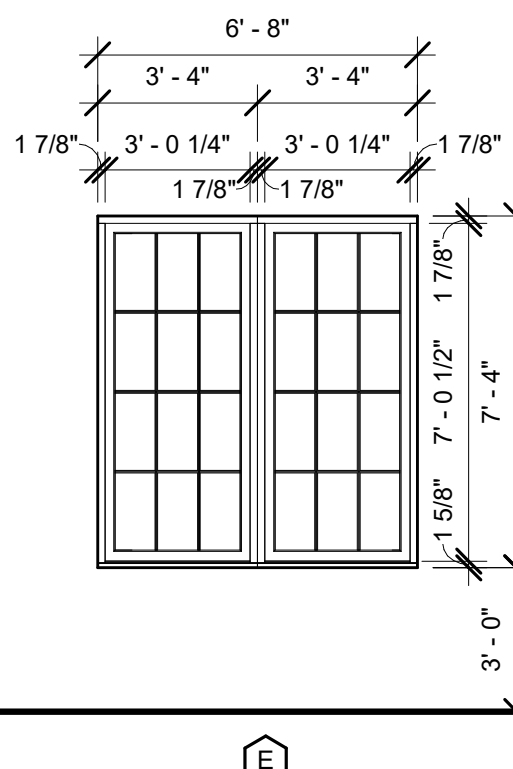
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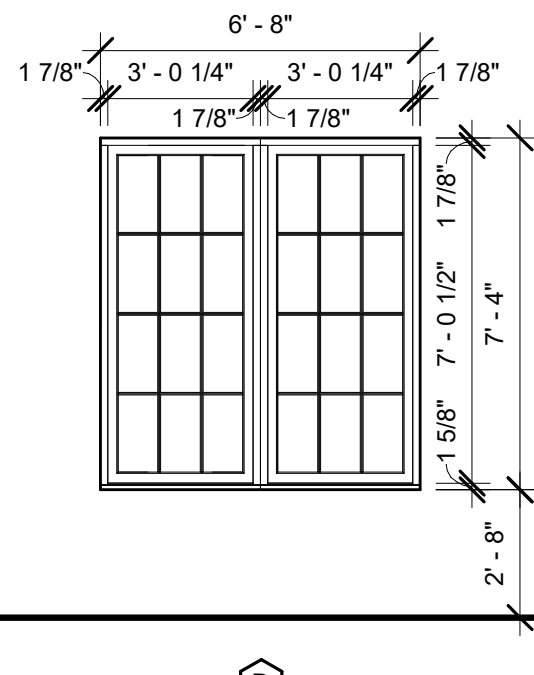
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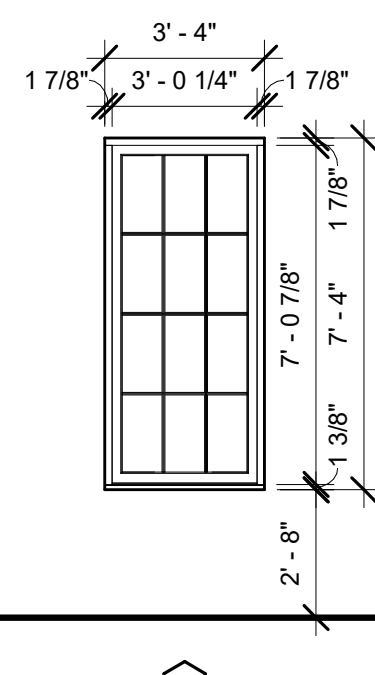
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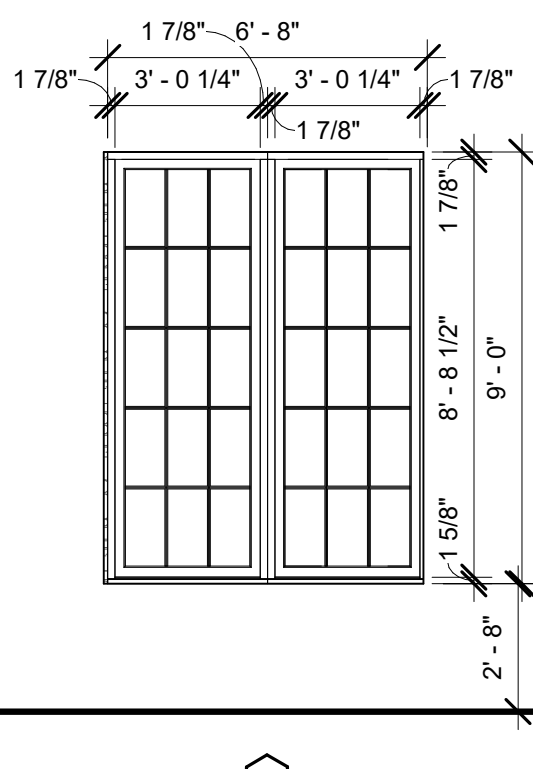
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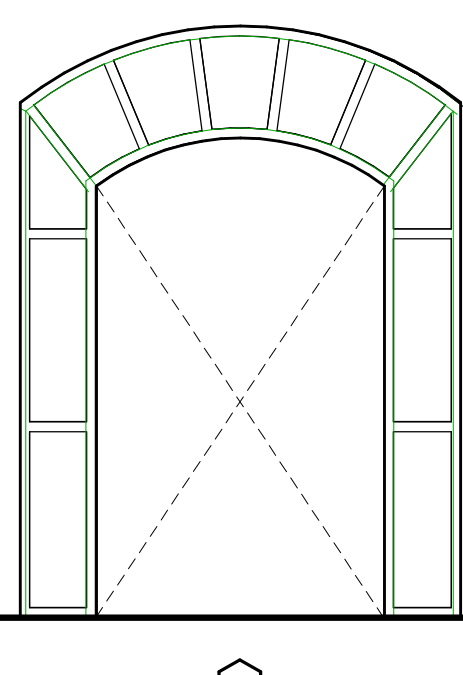
D
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EXTERIOR GLAZING SYSTEM



C
ALUMINUM FRAMED
EXTERIOR GLAZING SYSTEM



B
ALUMINUM FRAMED
EXTERIOR GLAZING SYSTEM



A
ALUMINUM FRAMED
EXTERIOR GLAZING SYSTEM

INTERIM REVIEW ONLY

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8/7/2020 3:40:28 PM

Folds of Honor Operations Building

5917 Patriot Drive, Owasso, OK 74055

GH2 PROJECT NUMBER:

20170021

ISSUE DATE:

08/07/2020

ISSUE:

PROGRESS SET

OTHER ISSUE DATES:

NO.	DESCRIPTION	DATE
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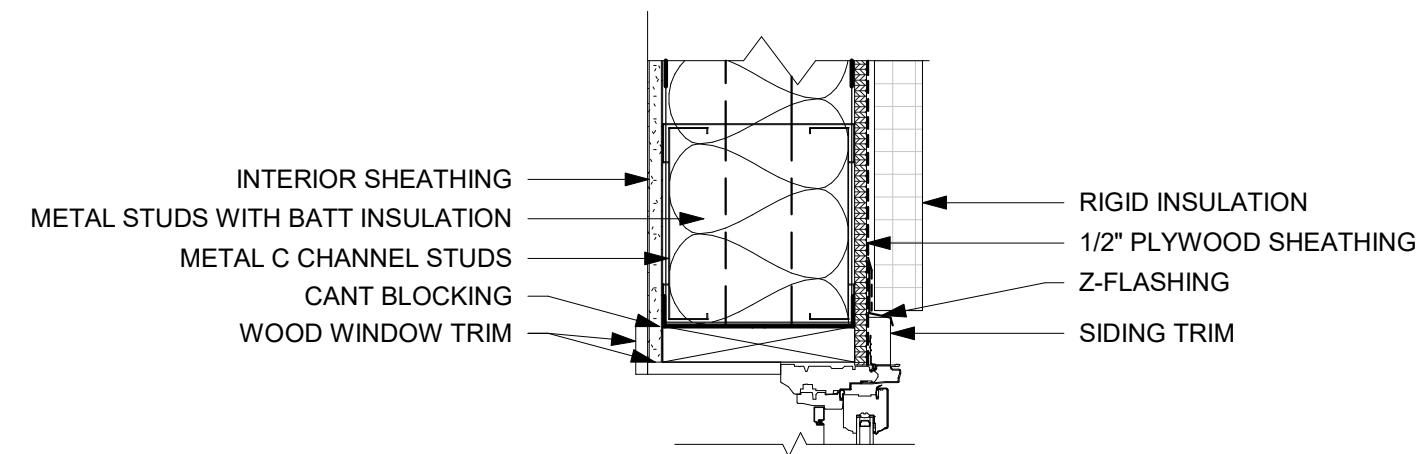
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WINDOW DETAILS

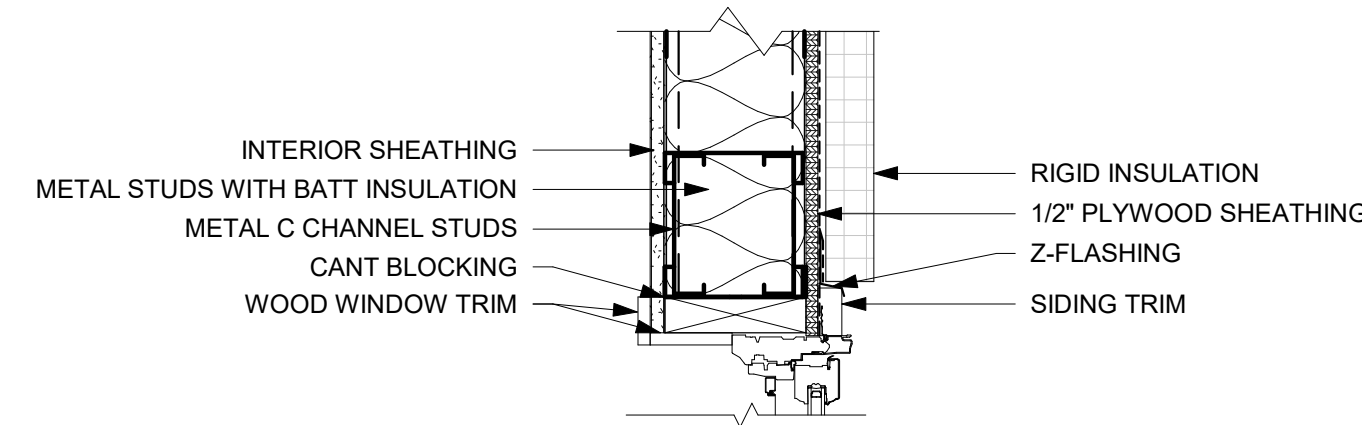
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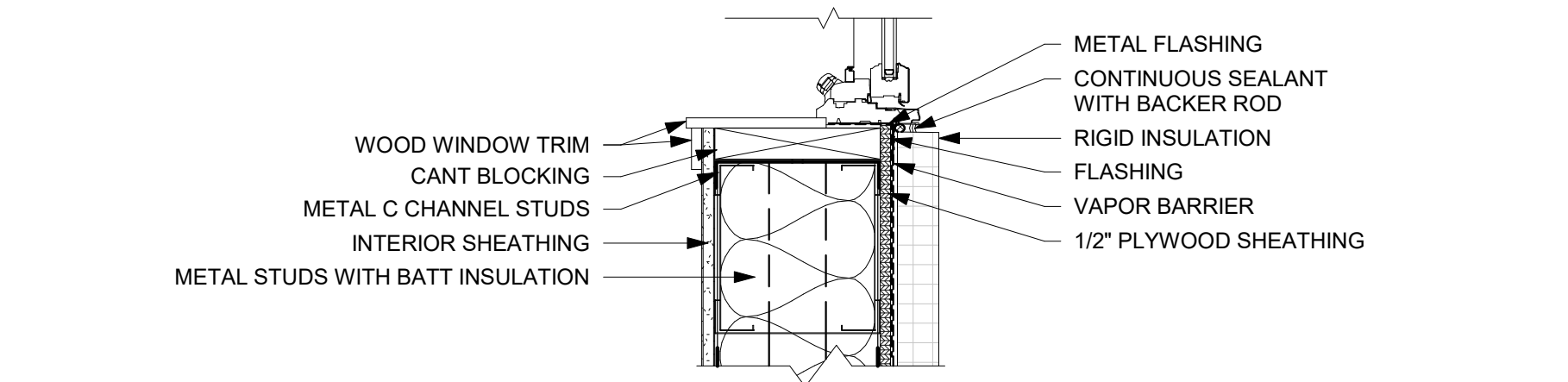
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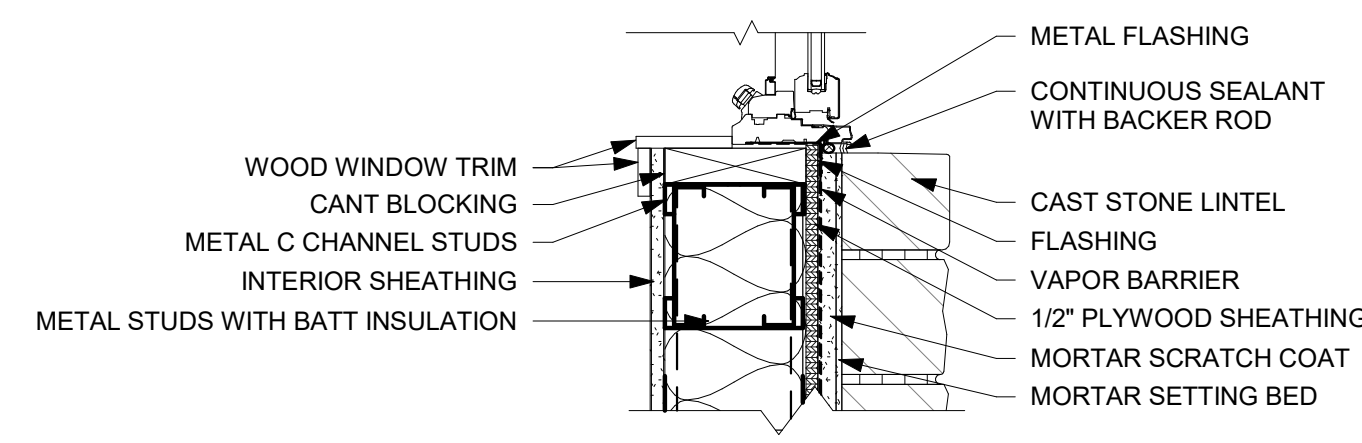
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1 1/2" = 1'-0"



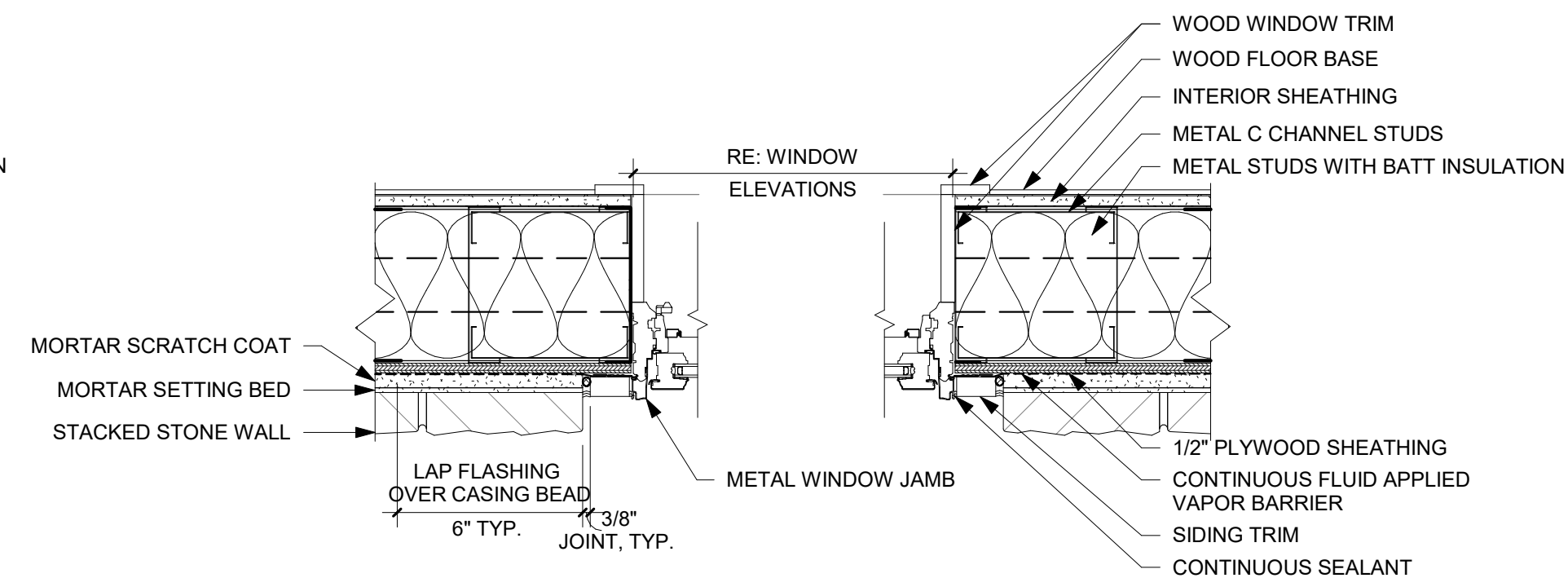
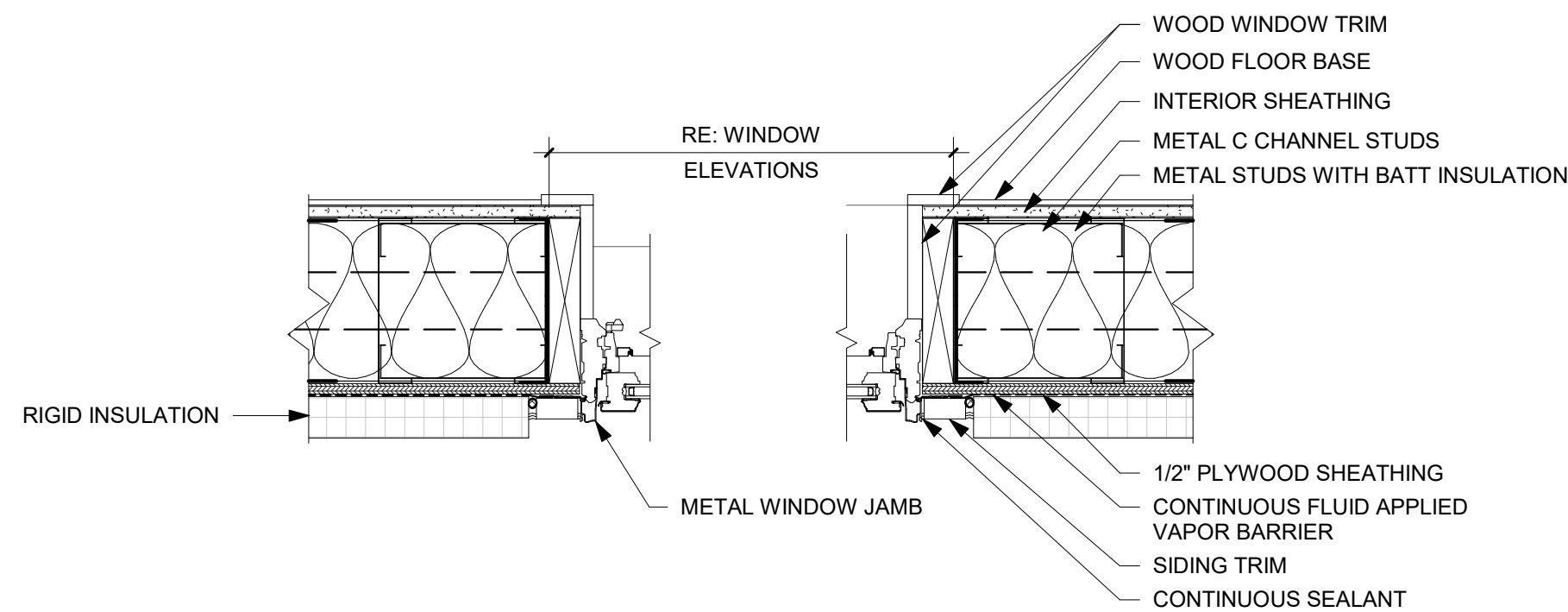
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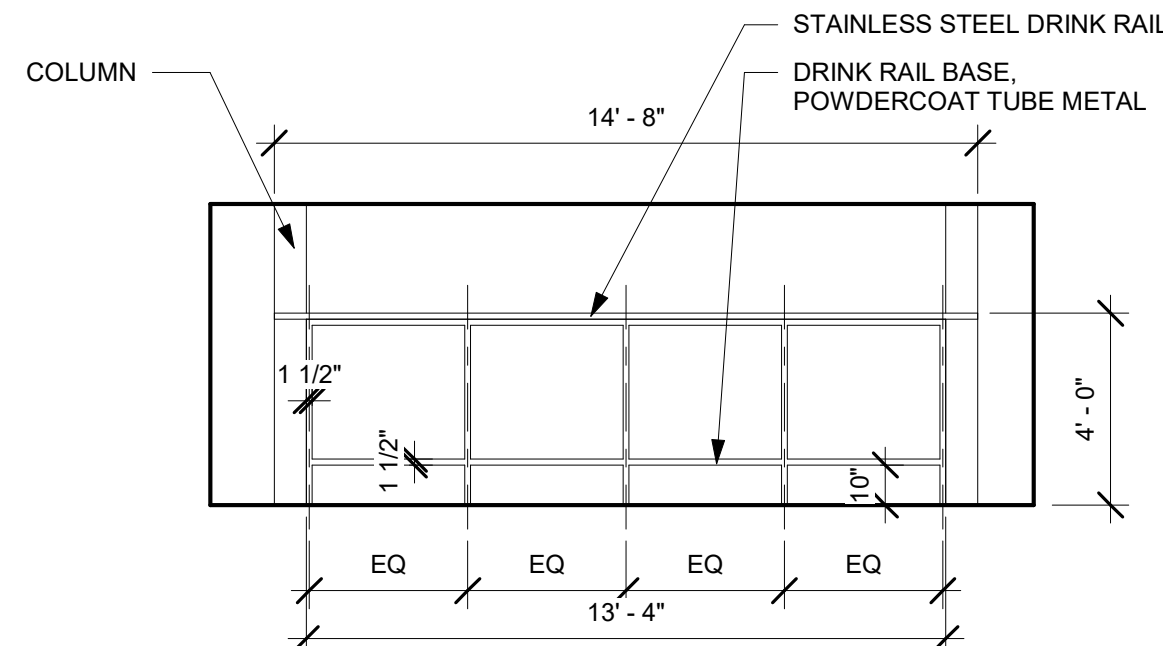


C WINDOW DETAIL - JAMB
1 1/2" = 1'-0"

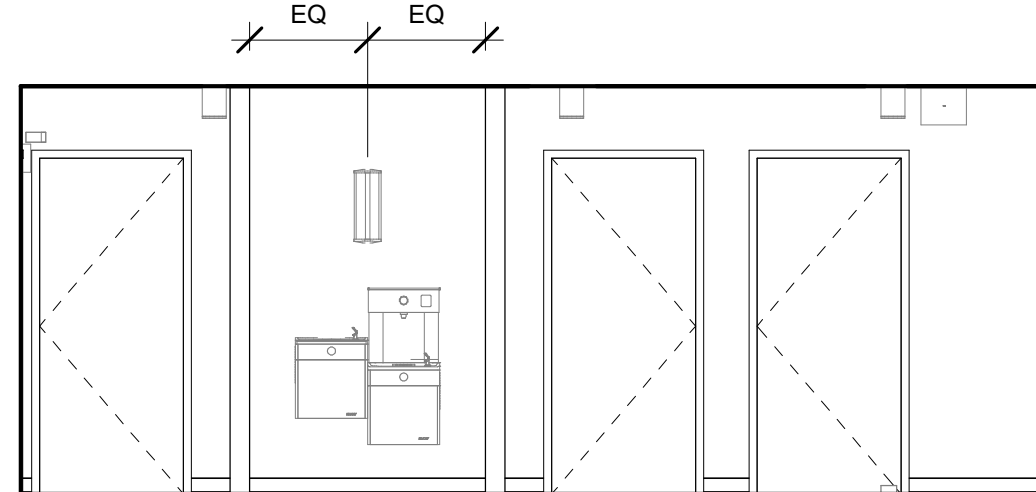


A WINDOW DETAIL - JAMB
1 1/2" = 1'-0"

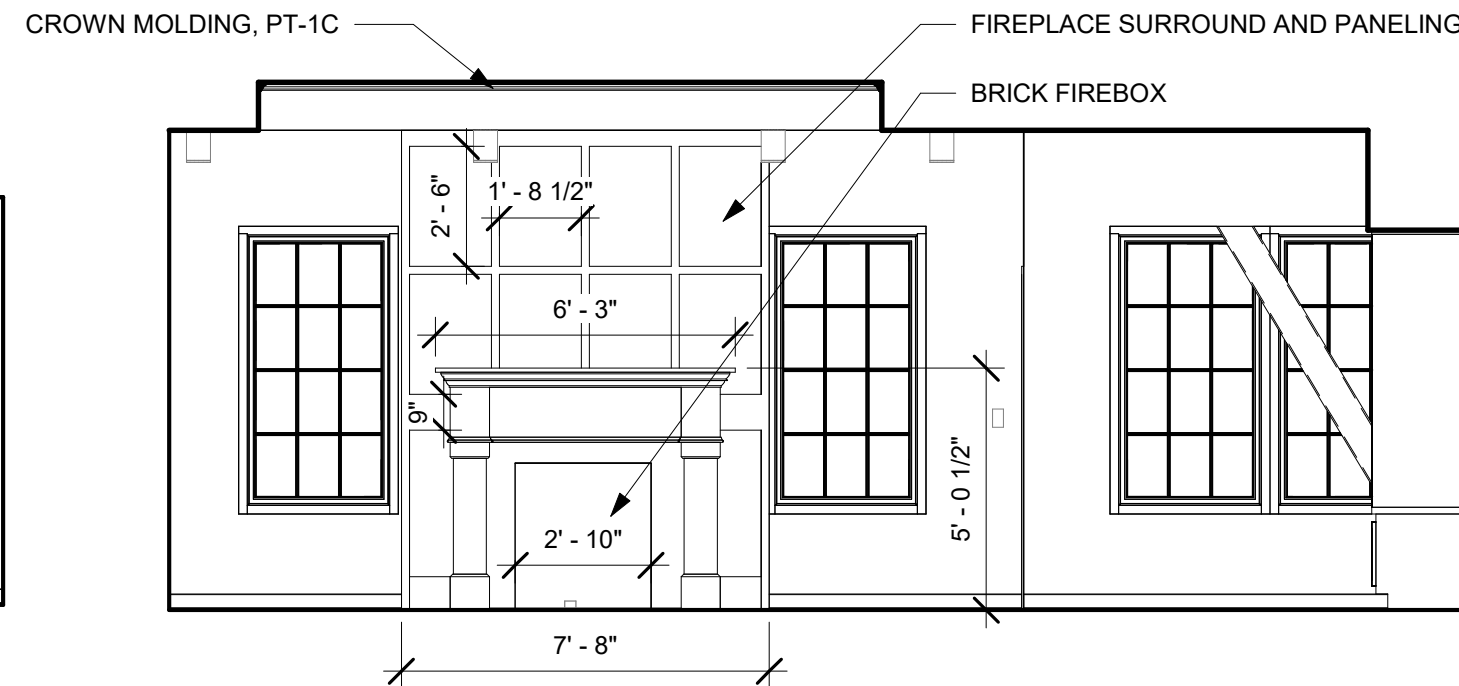




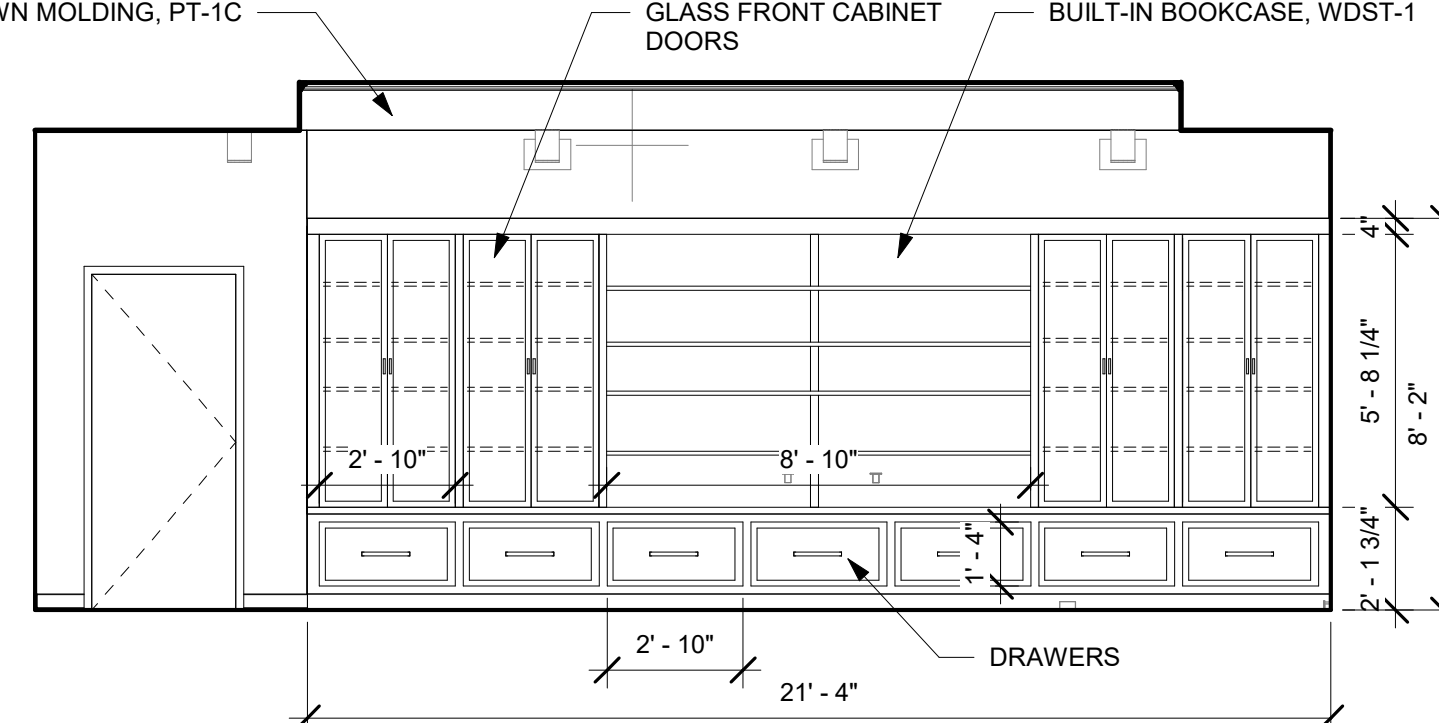
L INTERIOR ELEVATION
1/4" = 1'-0"



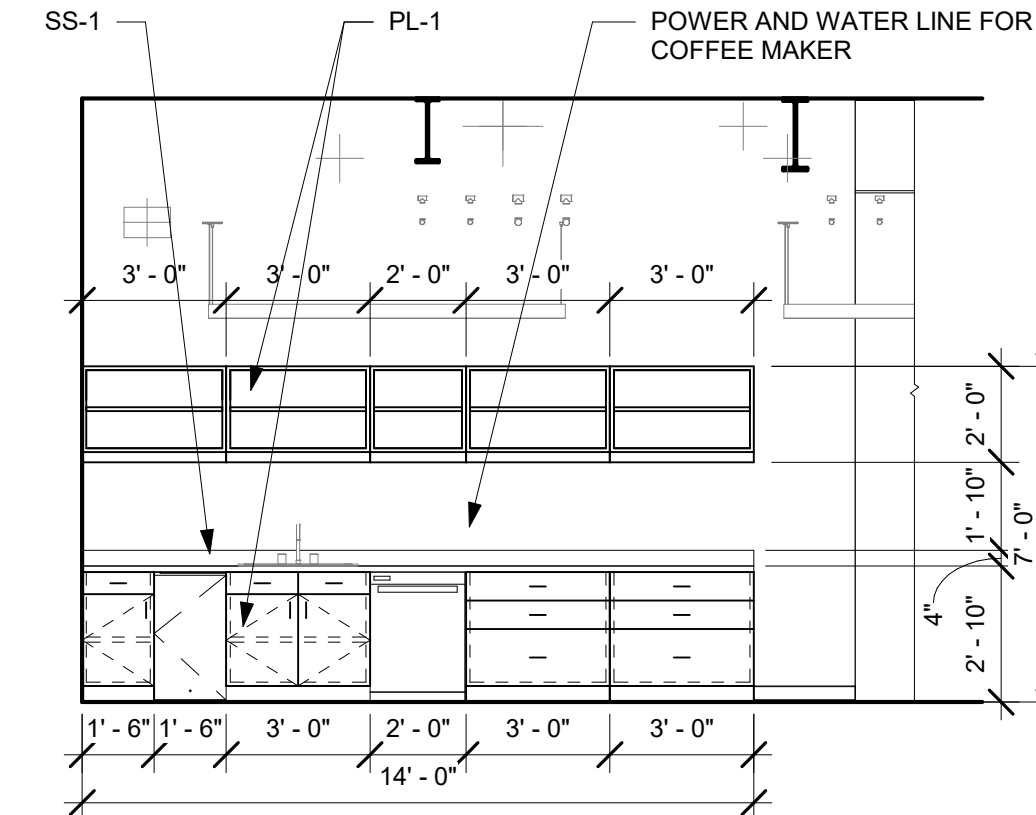
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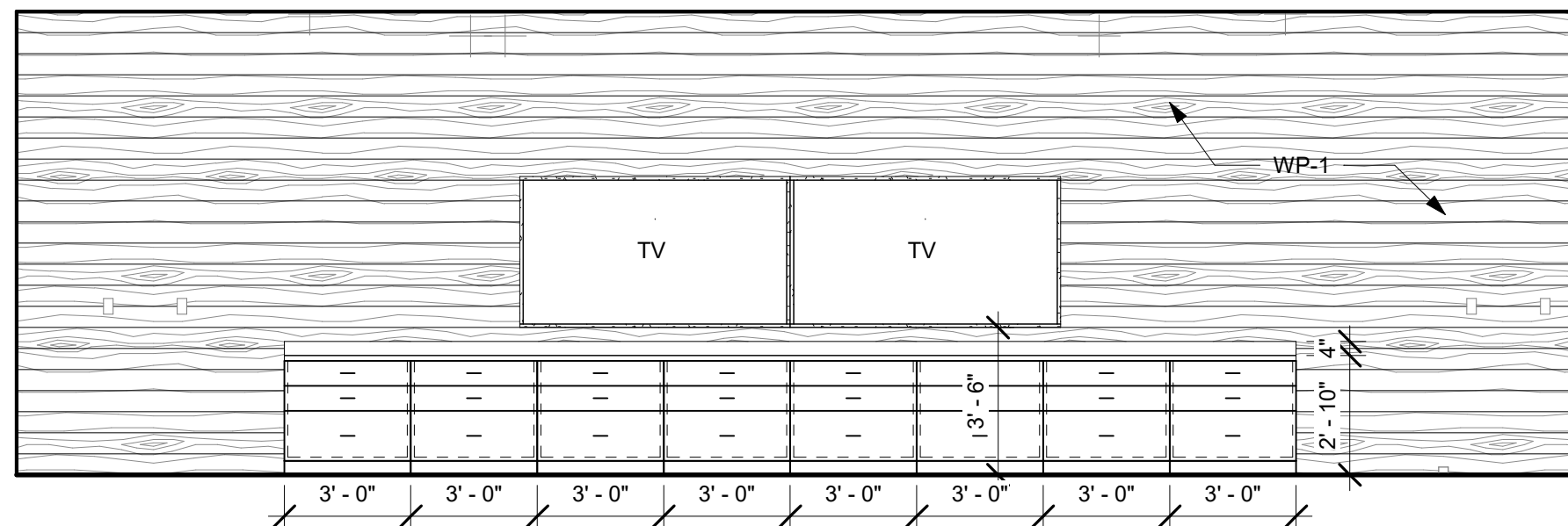
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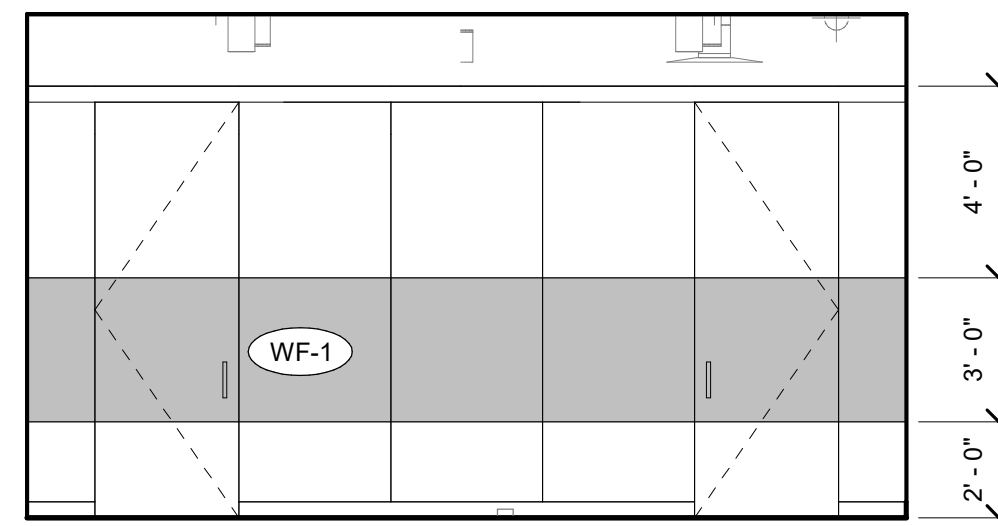
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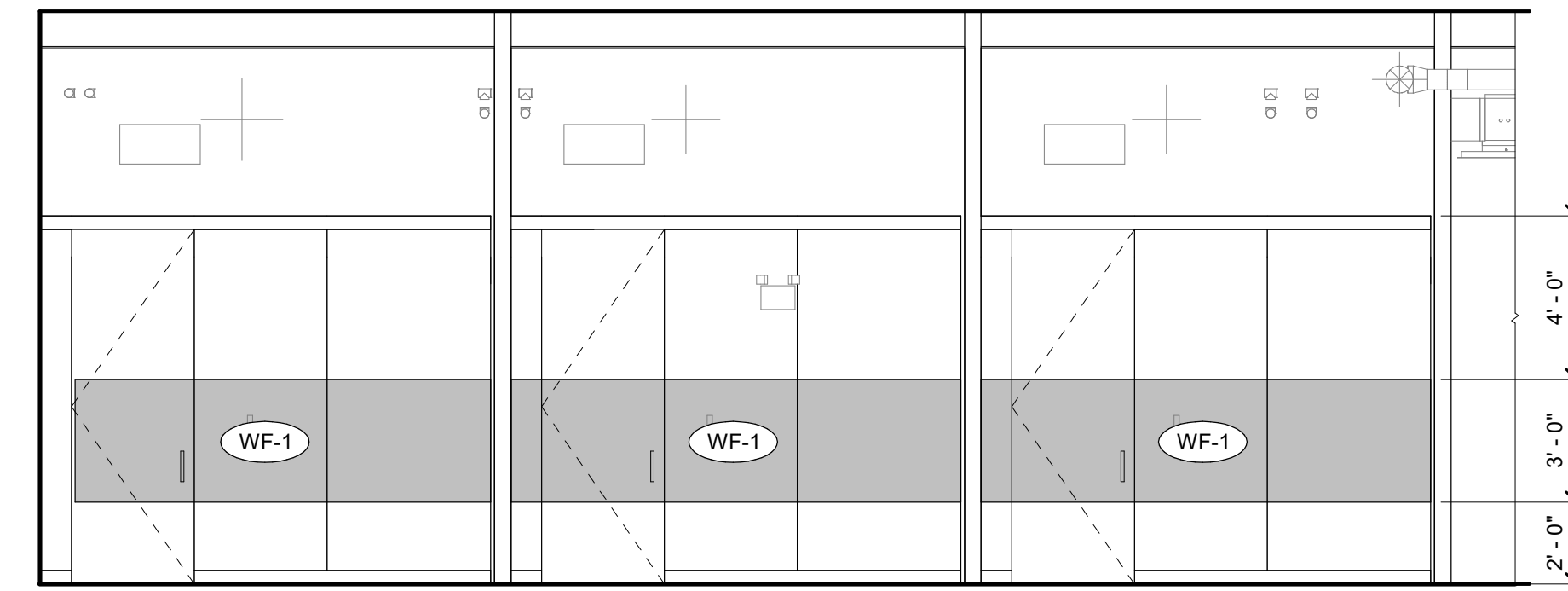
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1/4" = 1'-0"



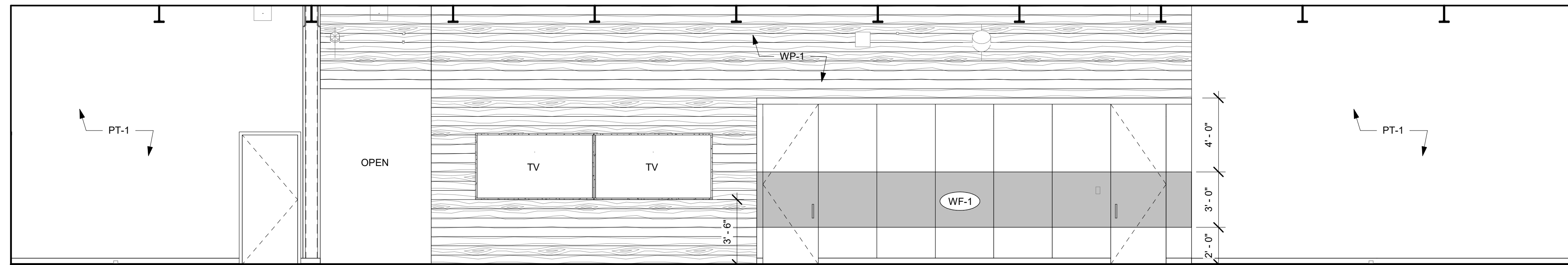
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1/4" = 1'-0"



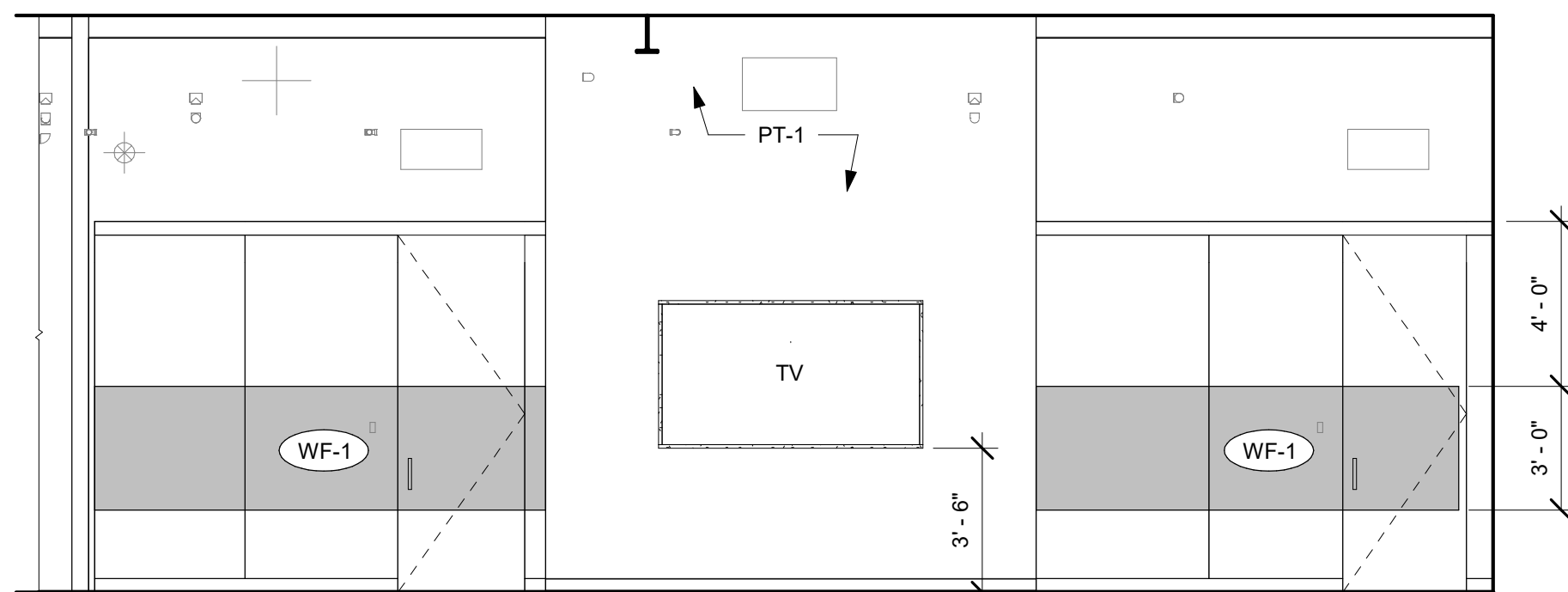
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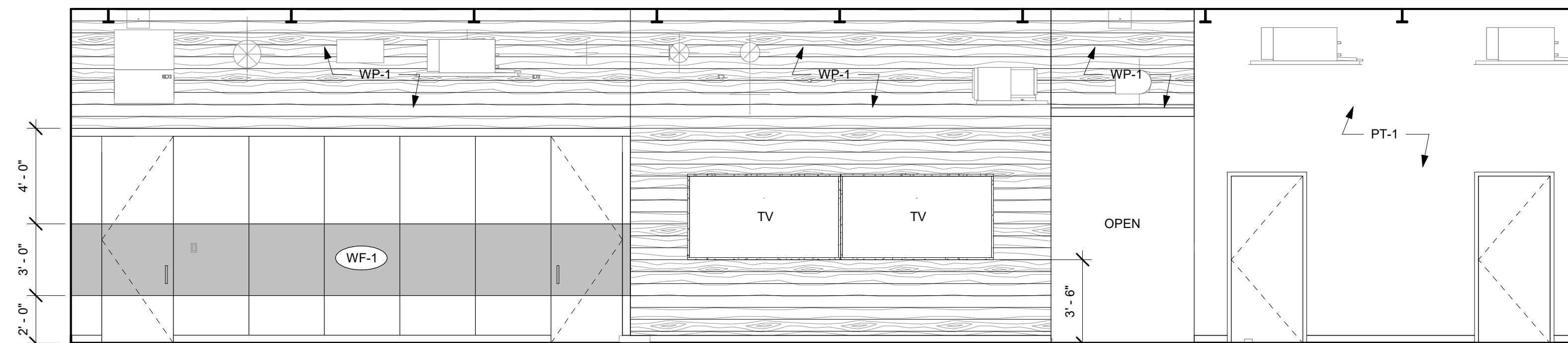
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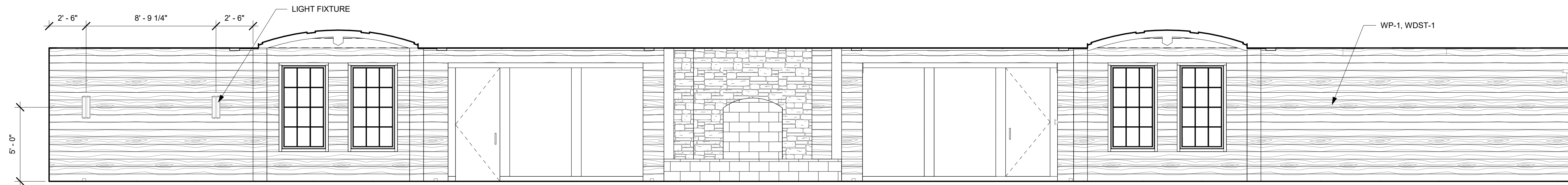
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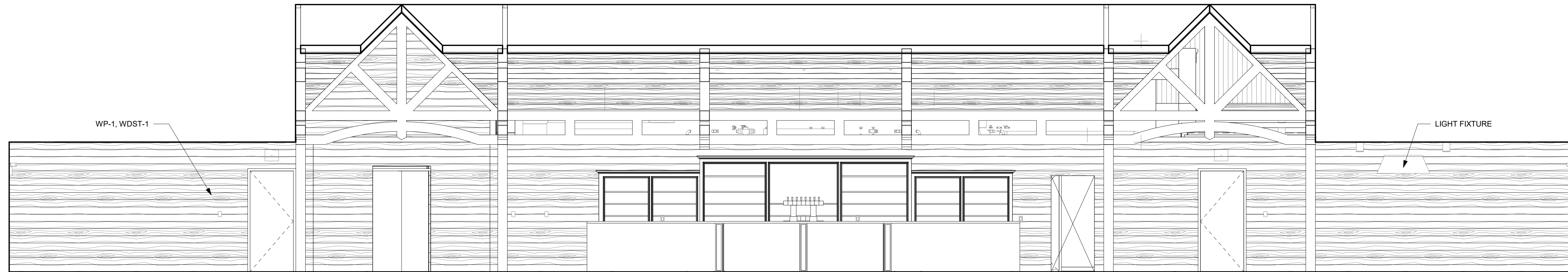
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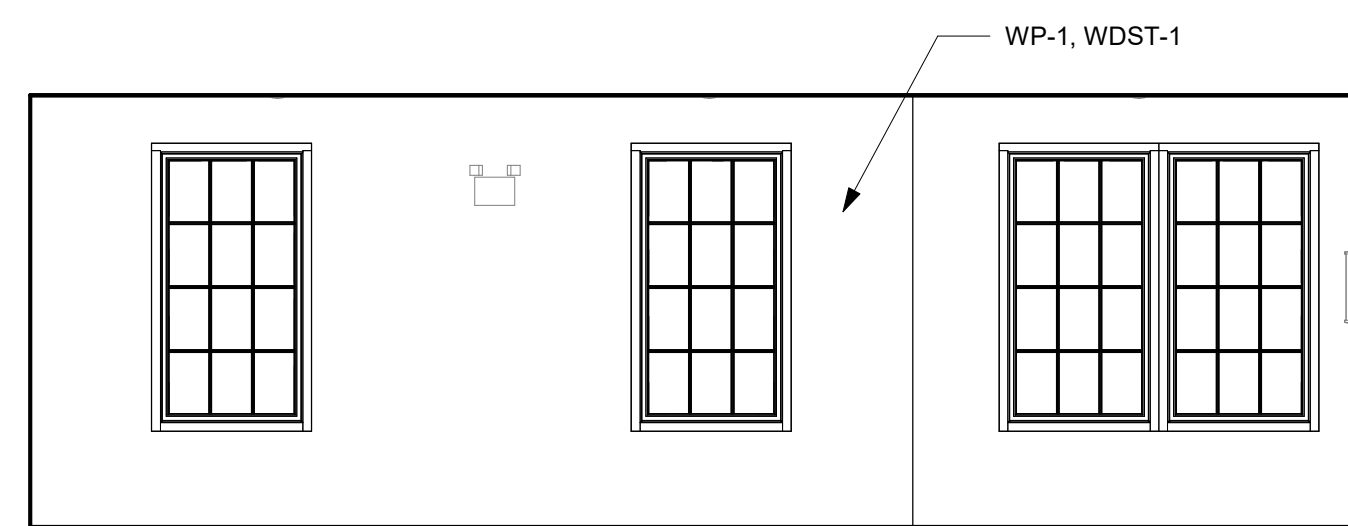
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1/4" = 1'-0"



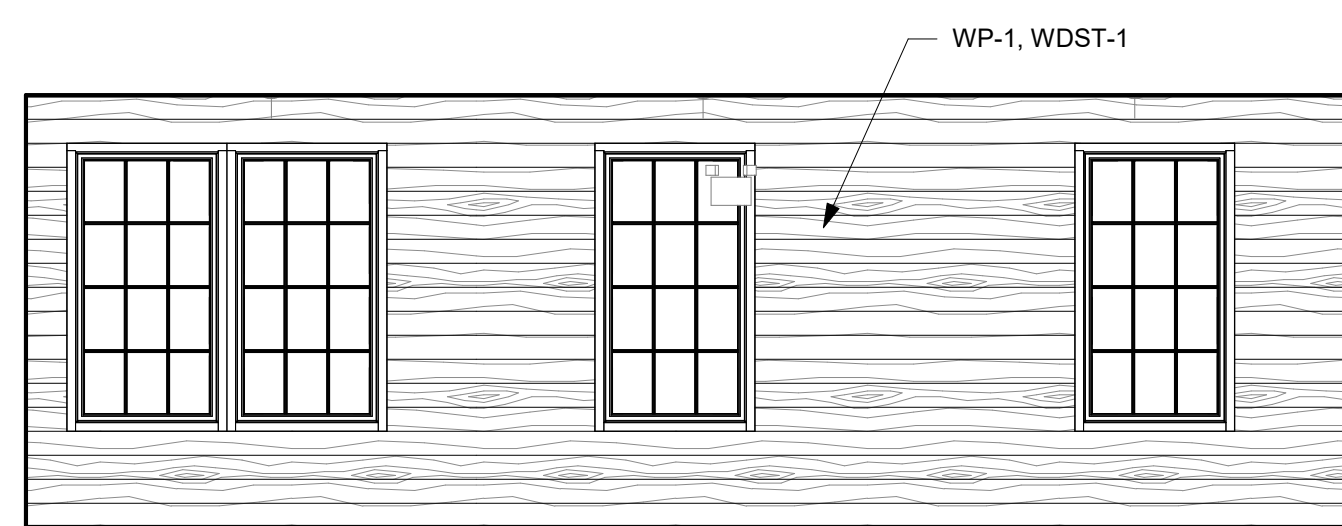
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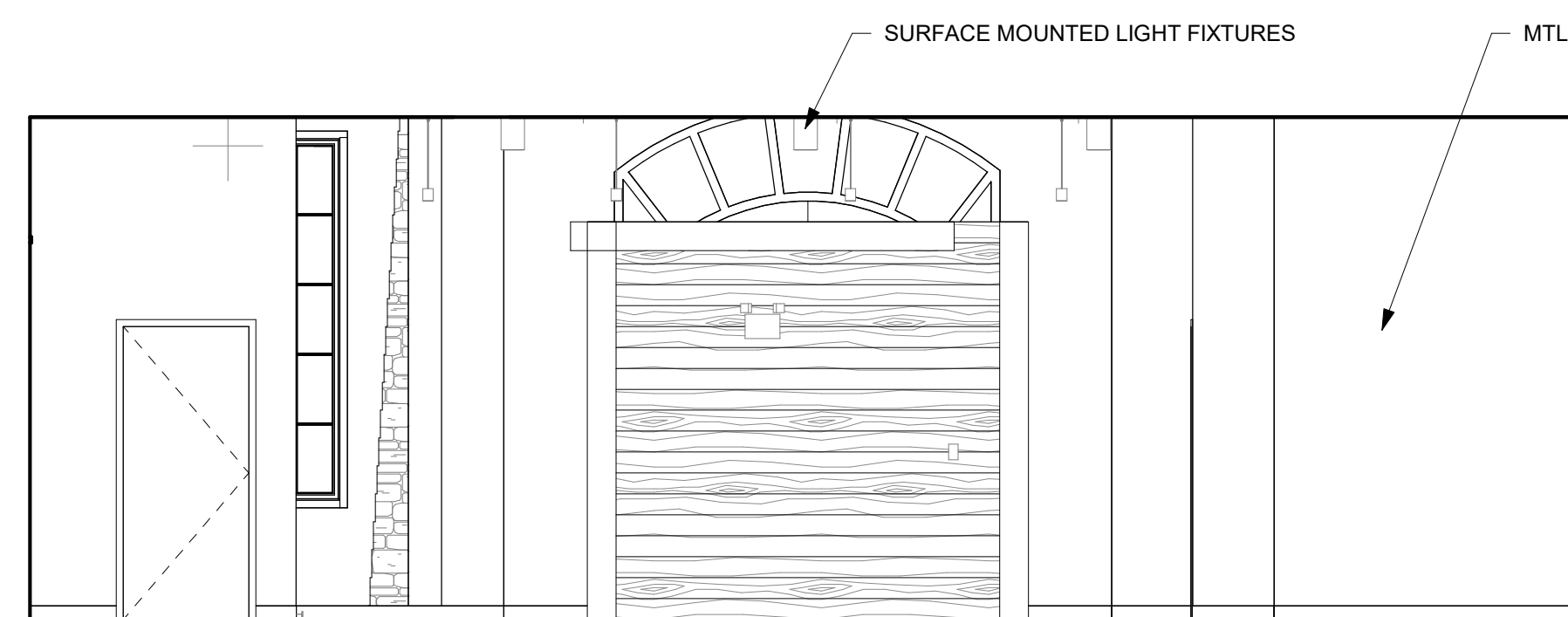
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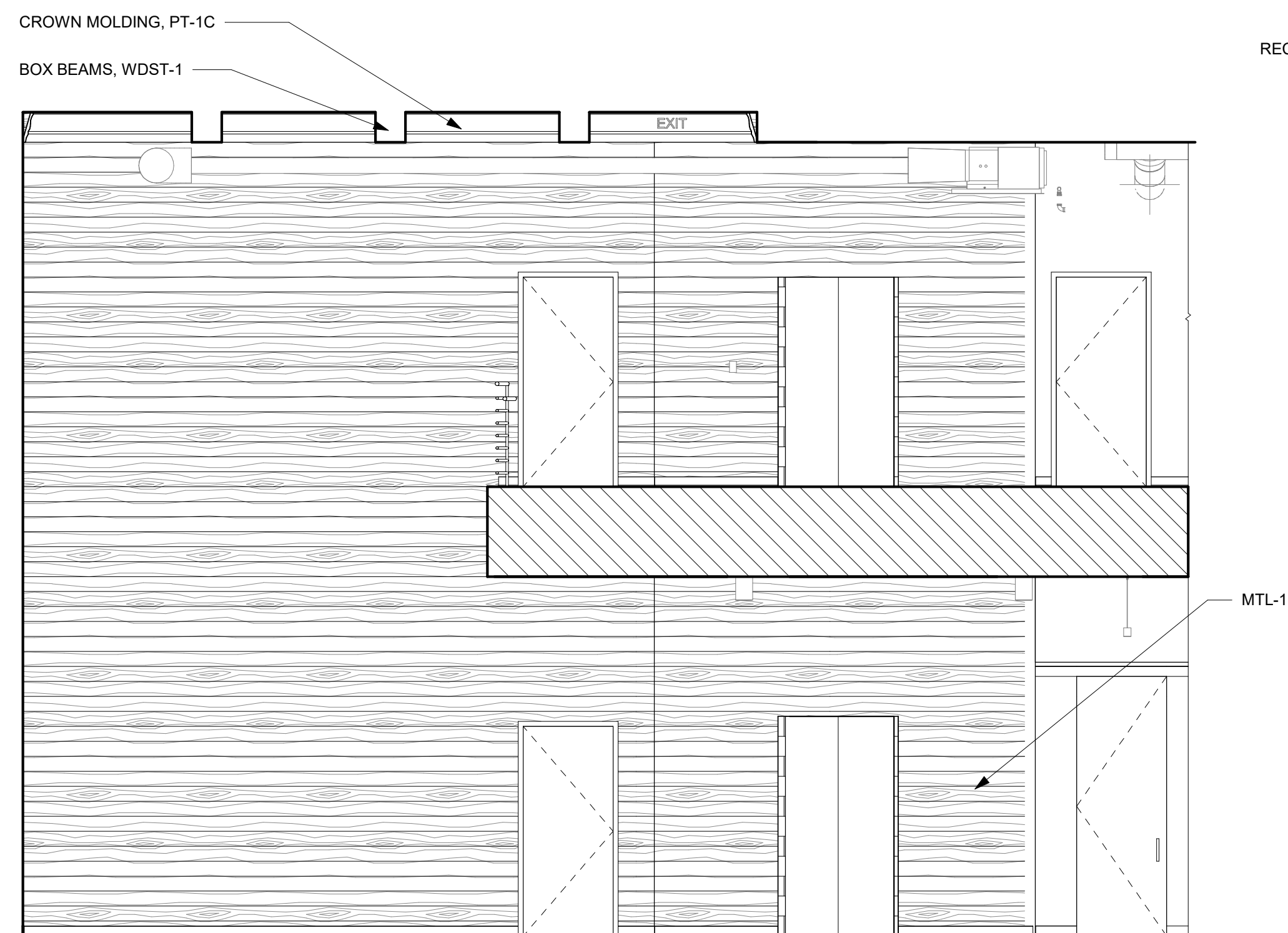
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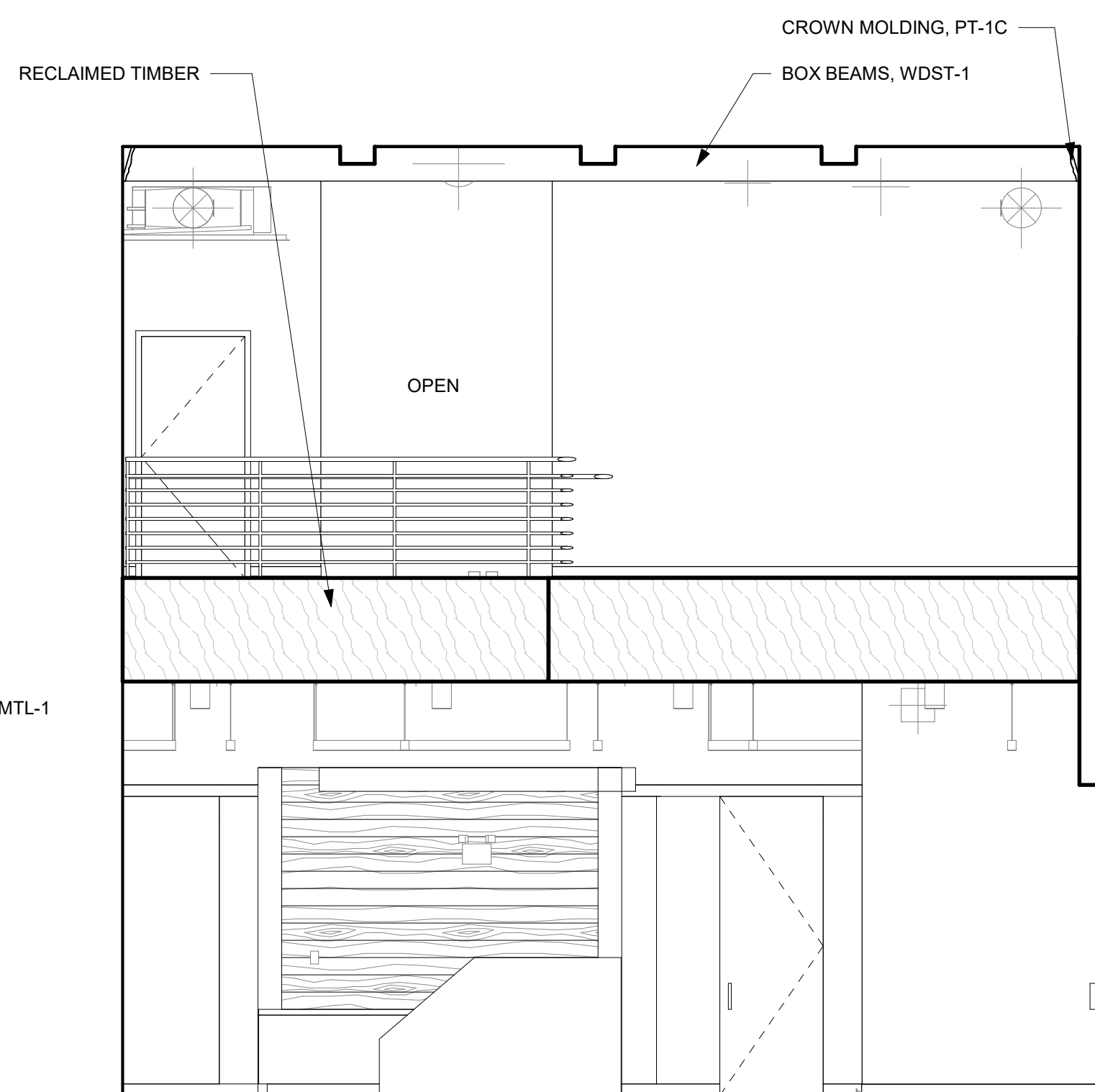
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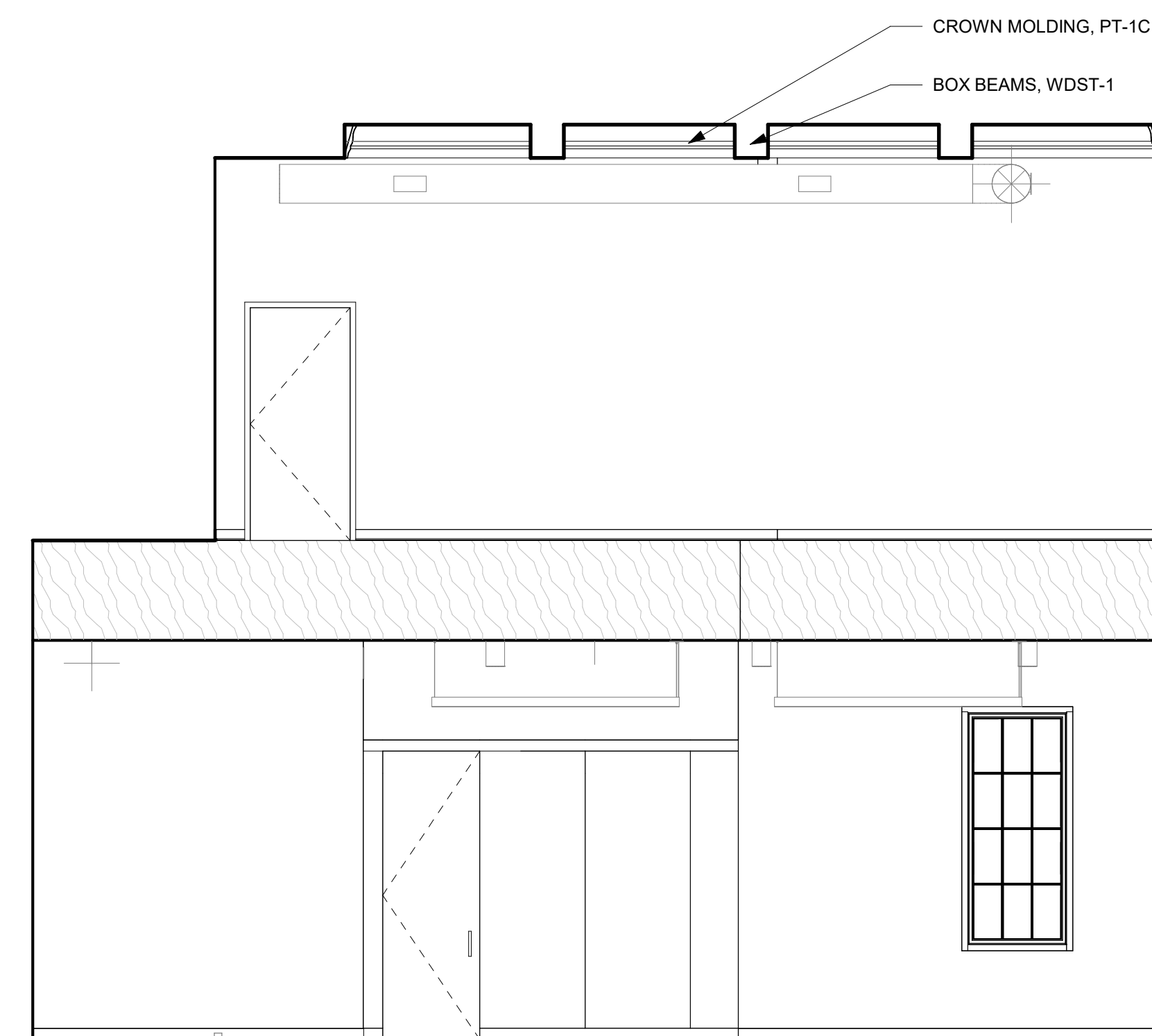
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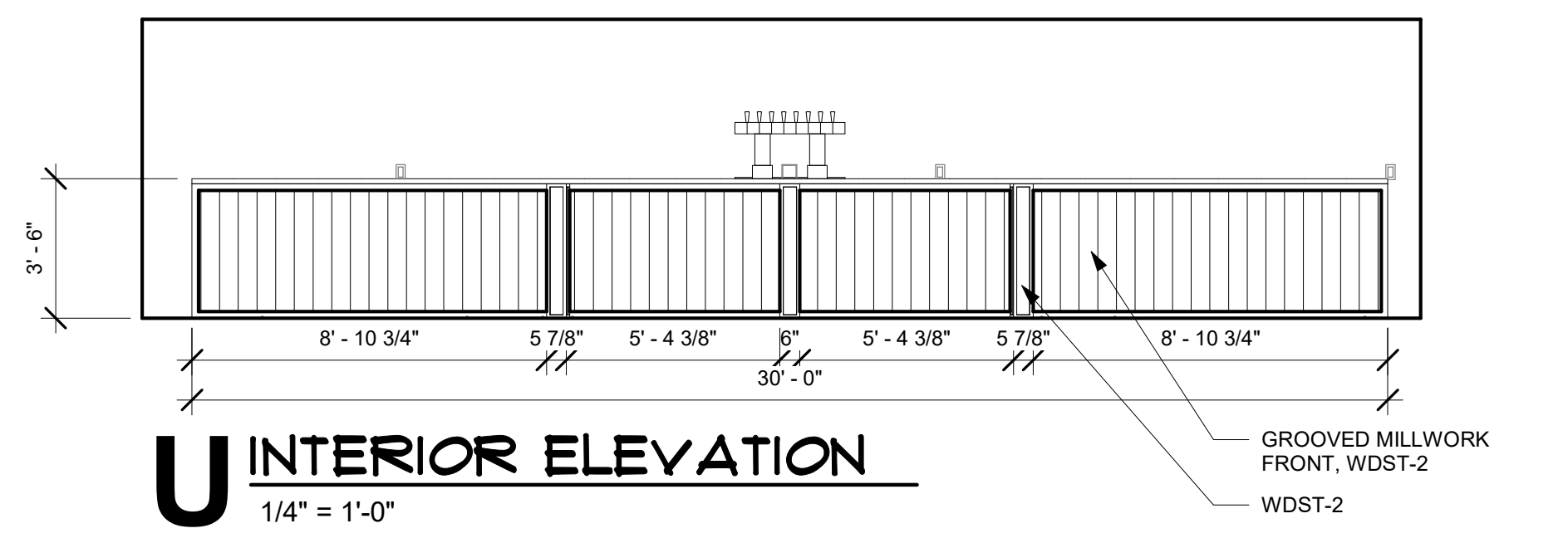
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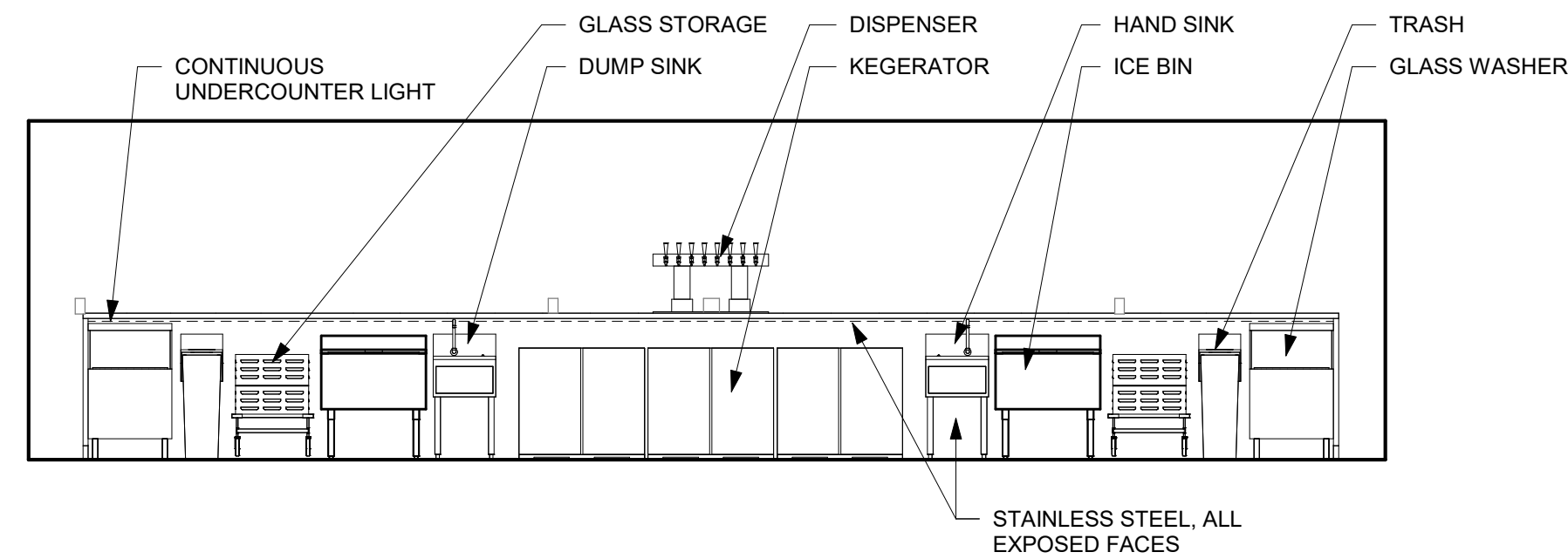
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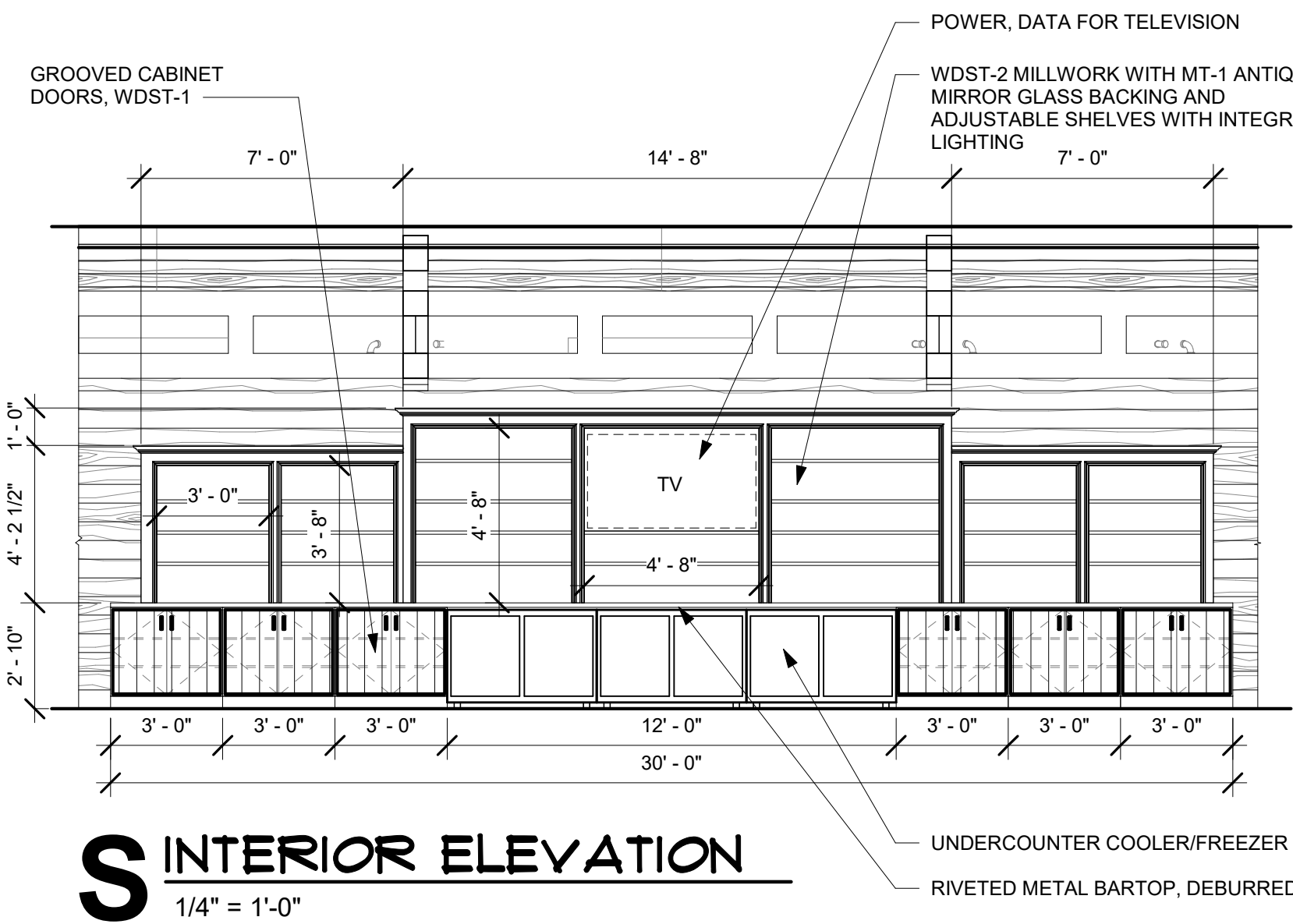
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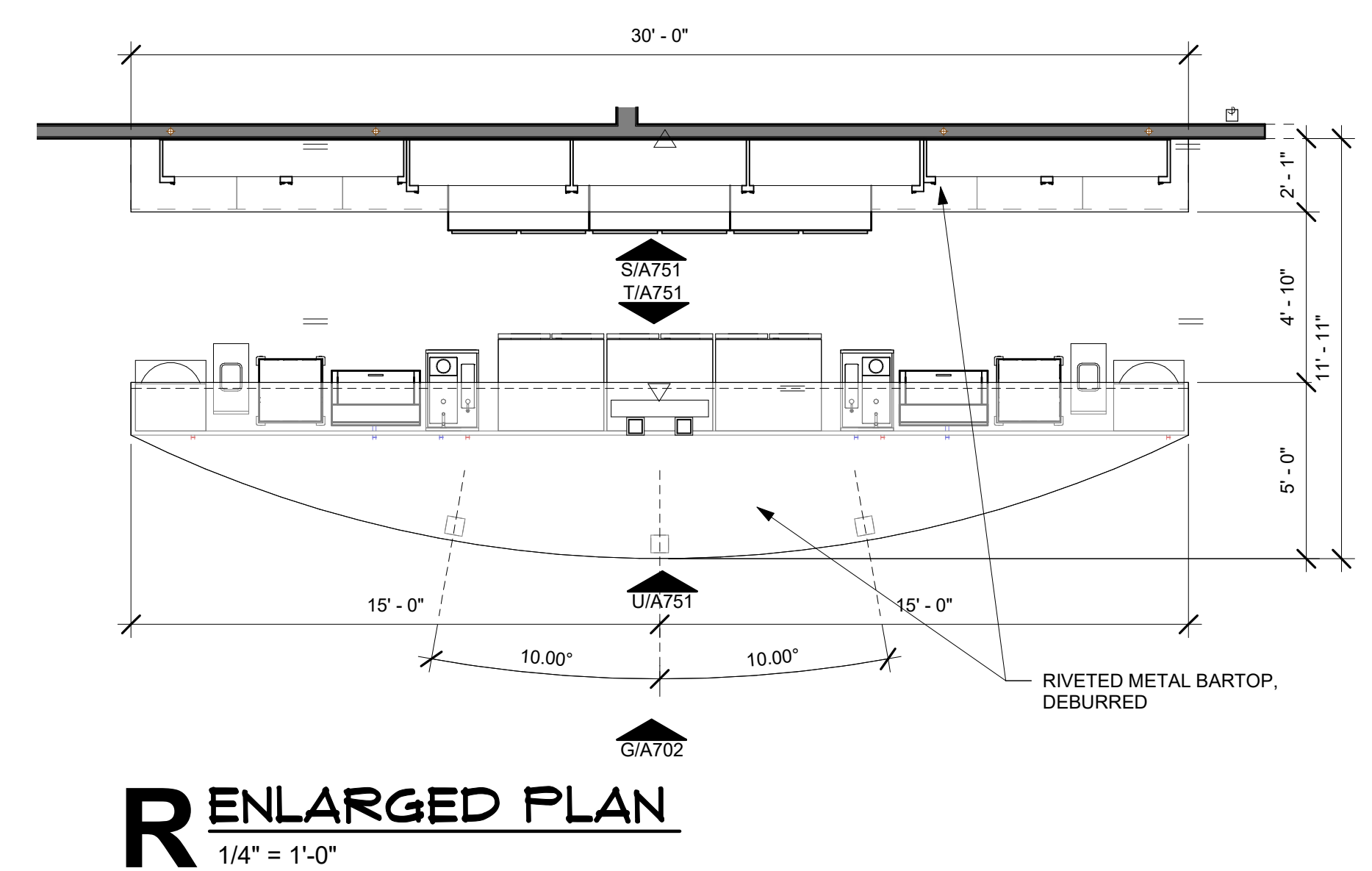
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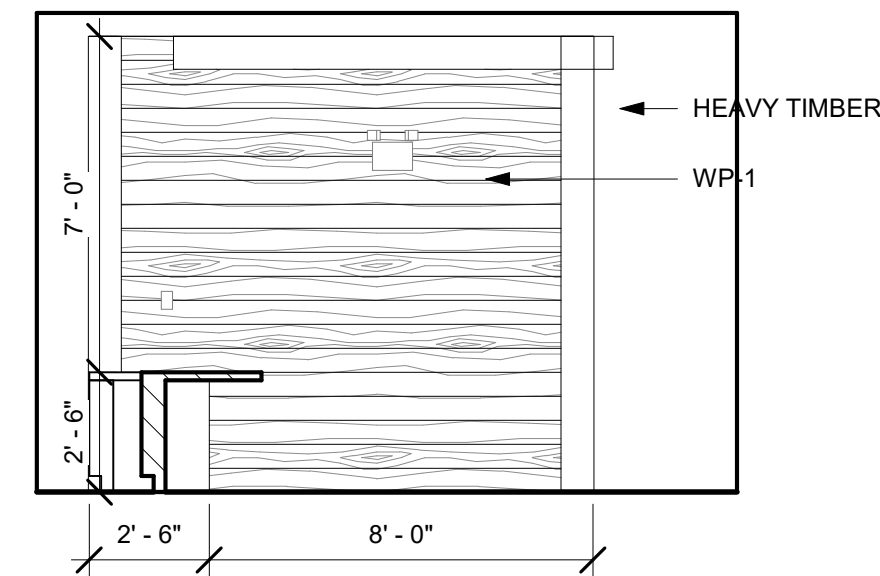
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1/4" = 1'-0"



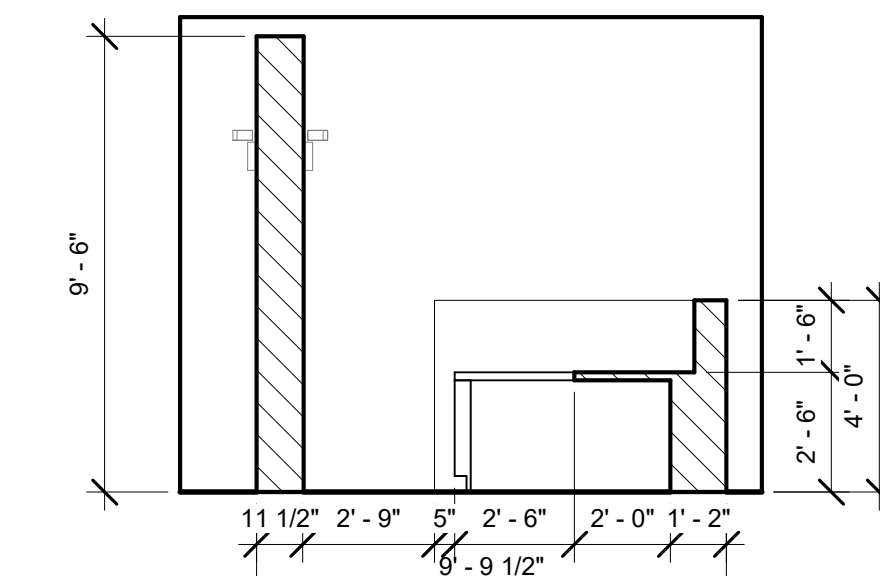
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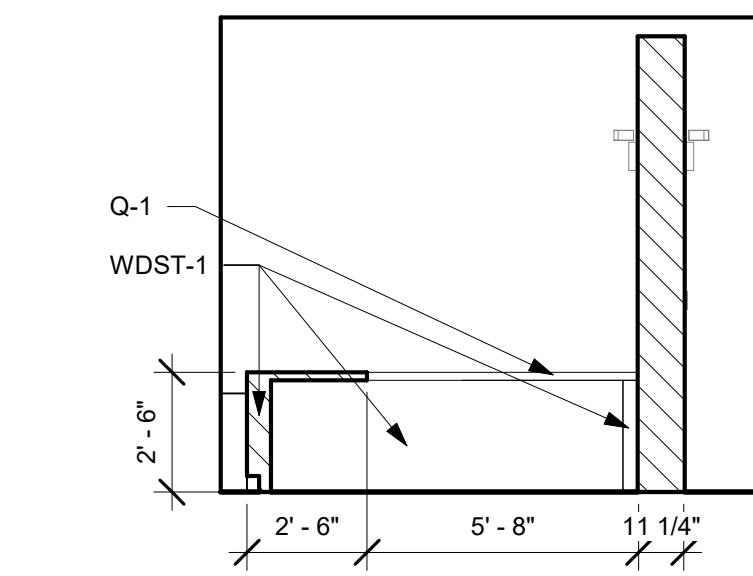
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1/4" = 1'-0"



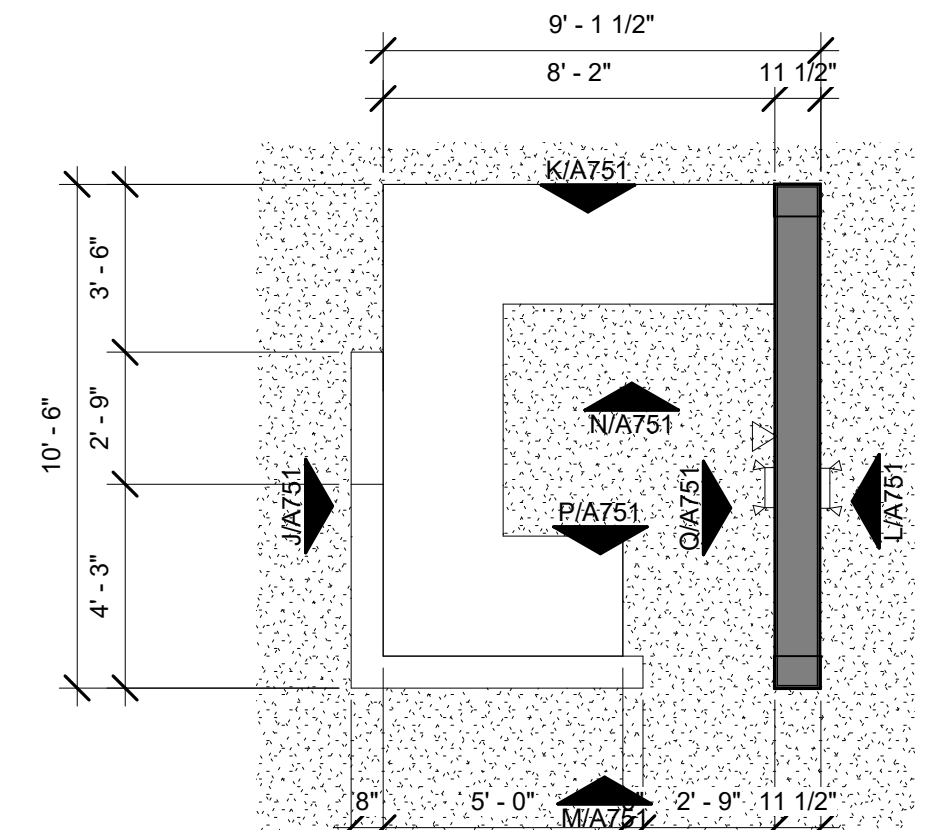
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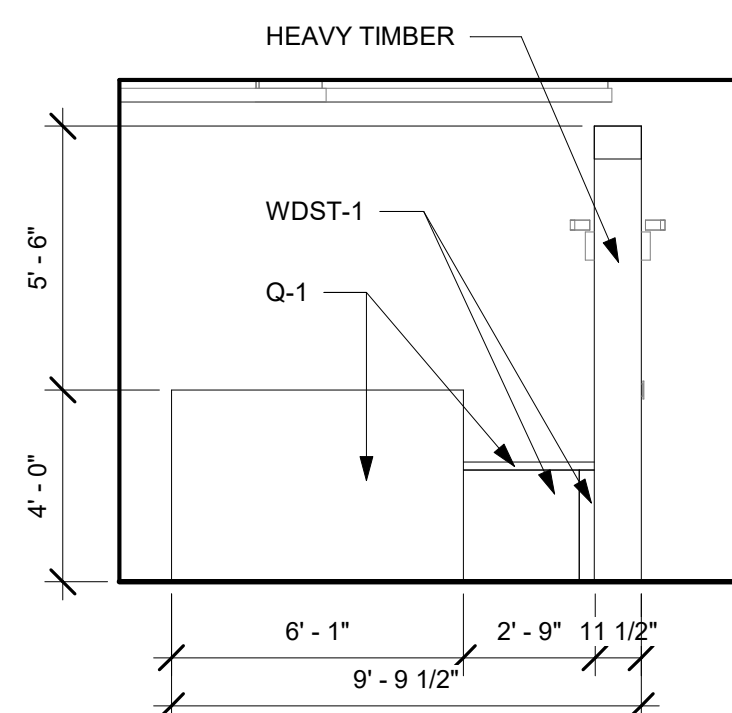
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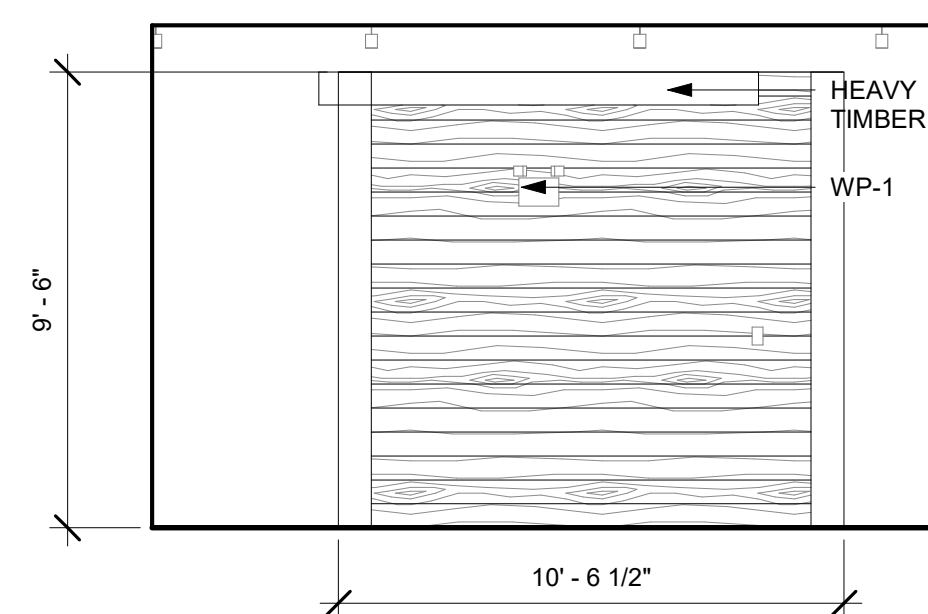
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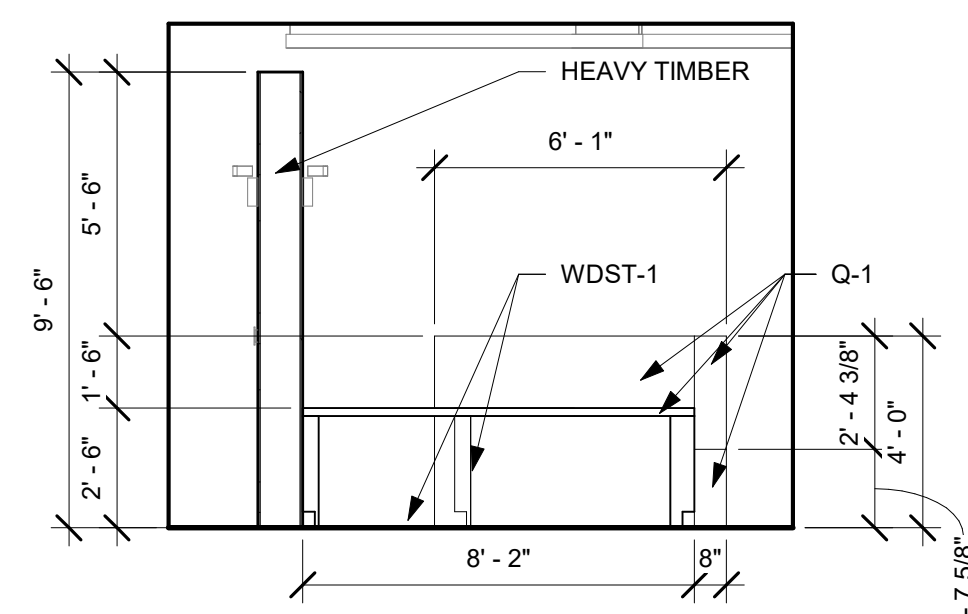
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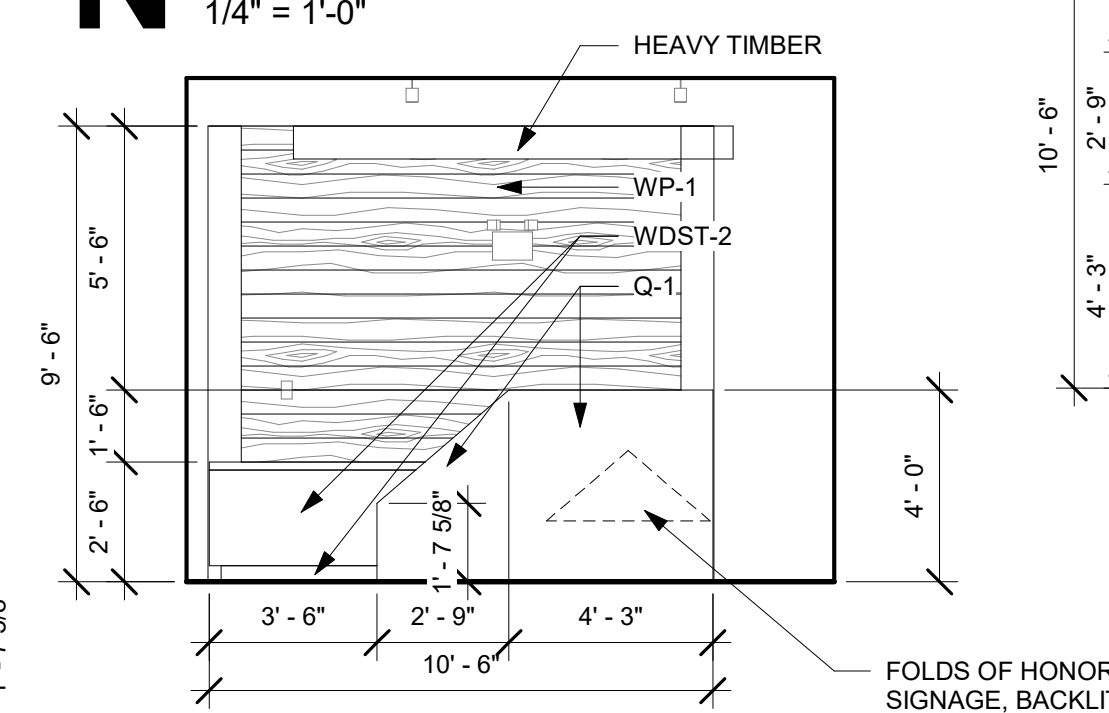
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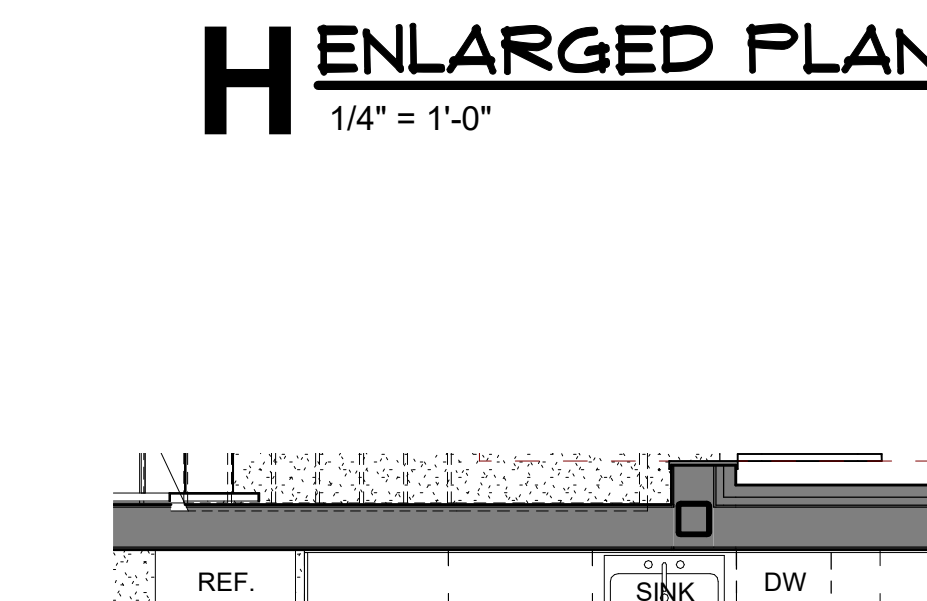
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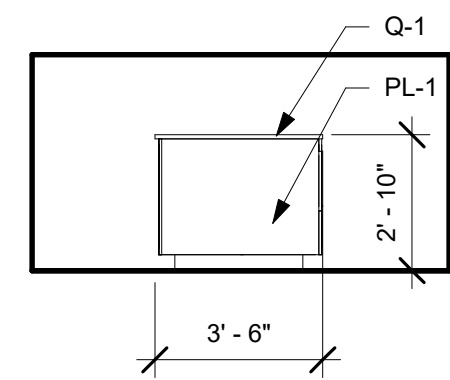
K INTERIOR ELEVATION
1/4" = 1'-0"



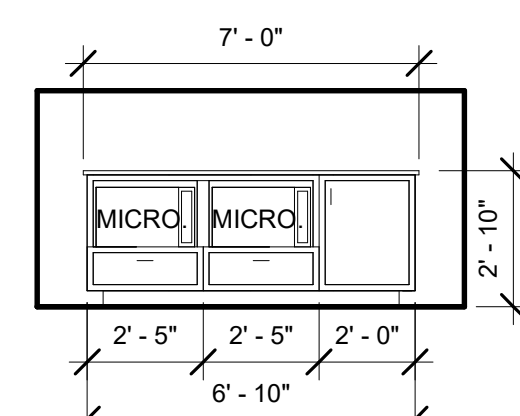
J INTERIOR ELEVATION
1/4" = 1'-0"



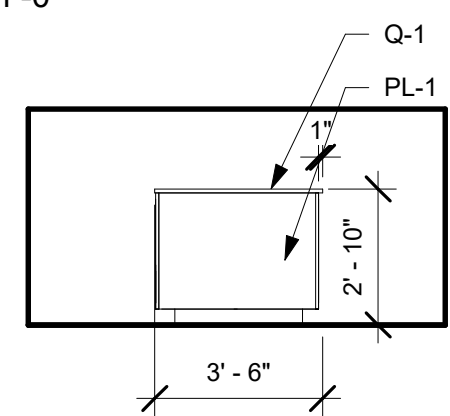
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1/4" = 1'-0"



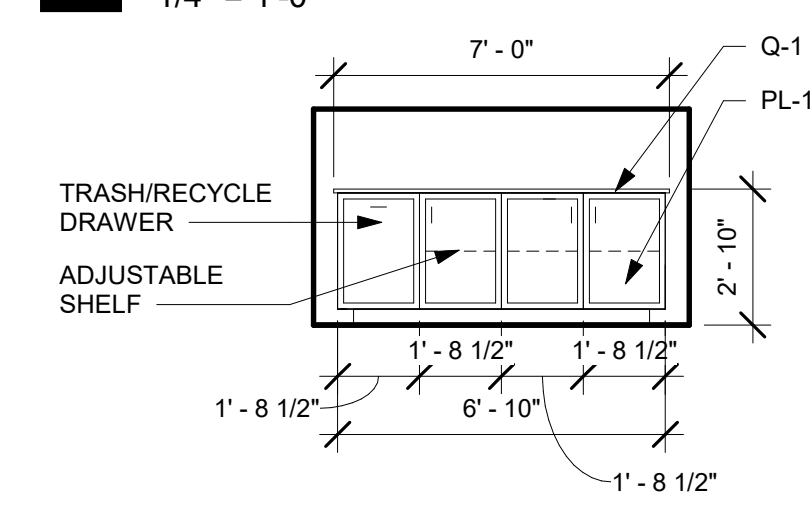
G INTERIOR ELEVATION
1/4" = 1'-0"



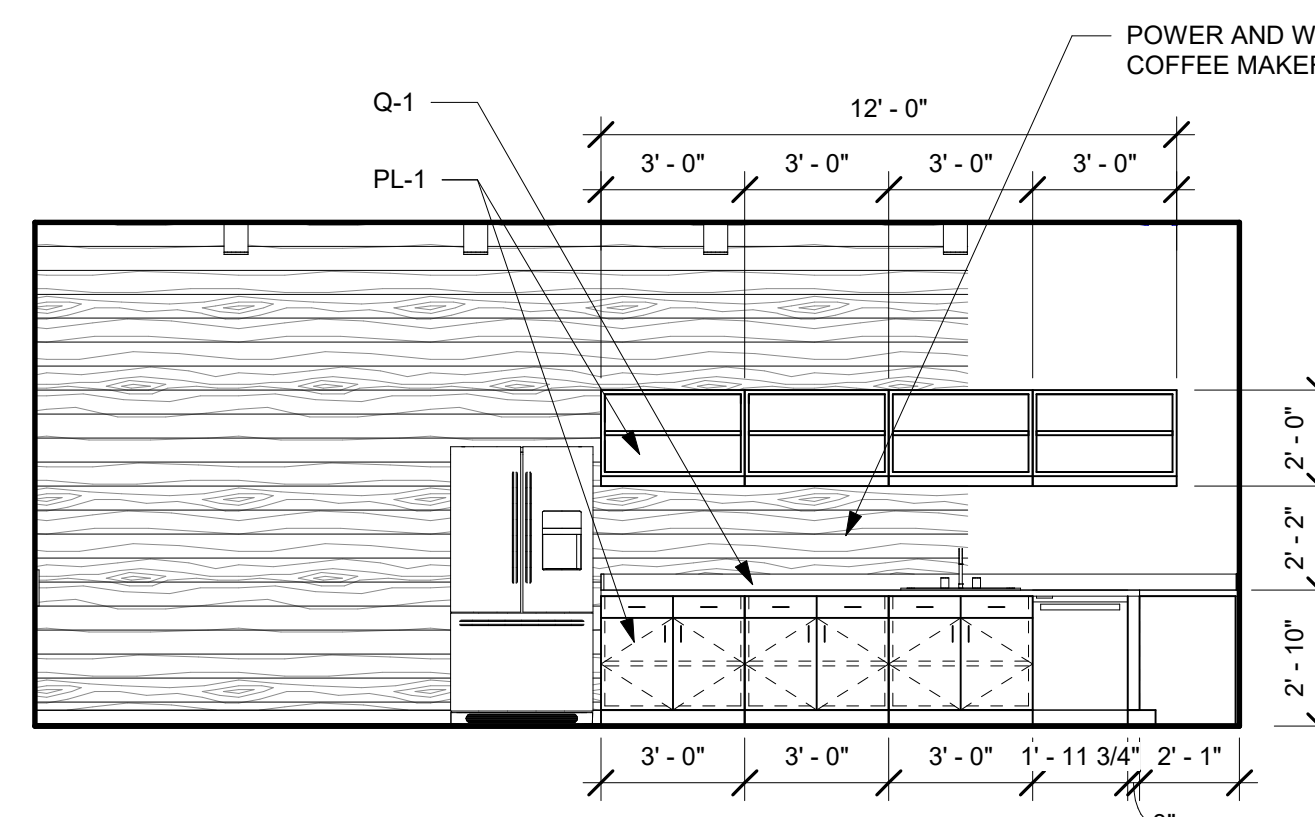
E INTERIOR ELEVATION
1/4" = 1'-0"



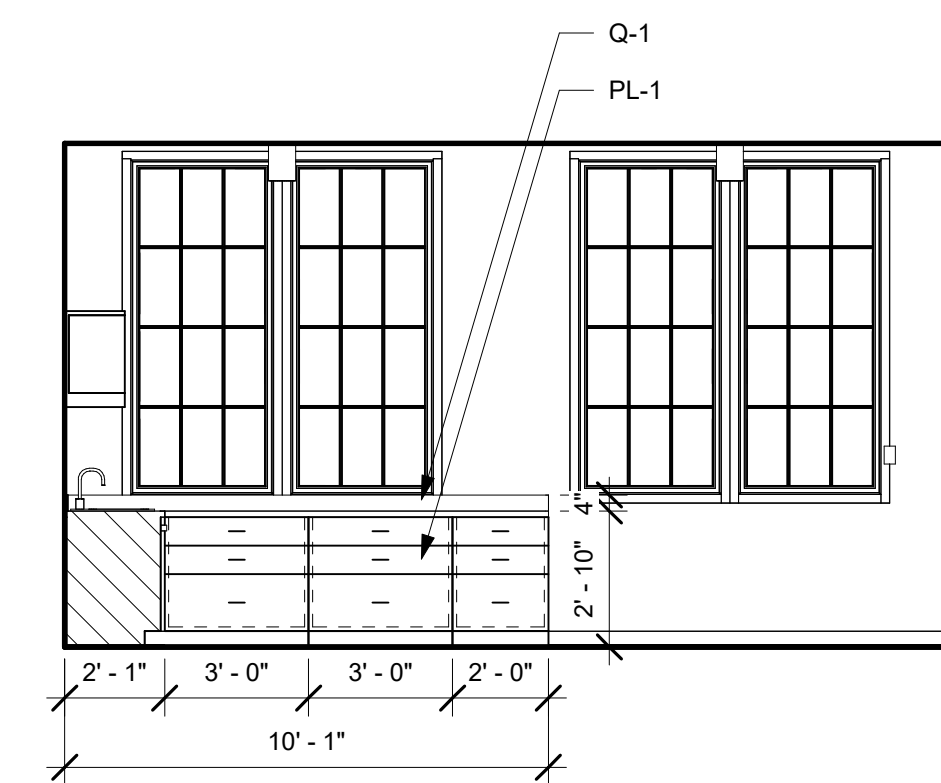
F INTERIOR ELEVATION
1/4" = 1'-0"



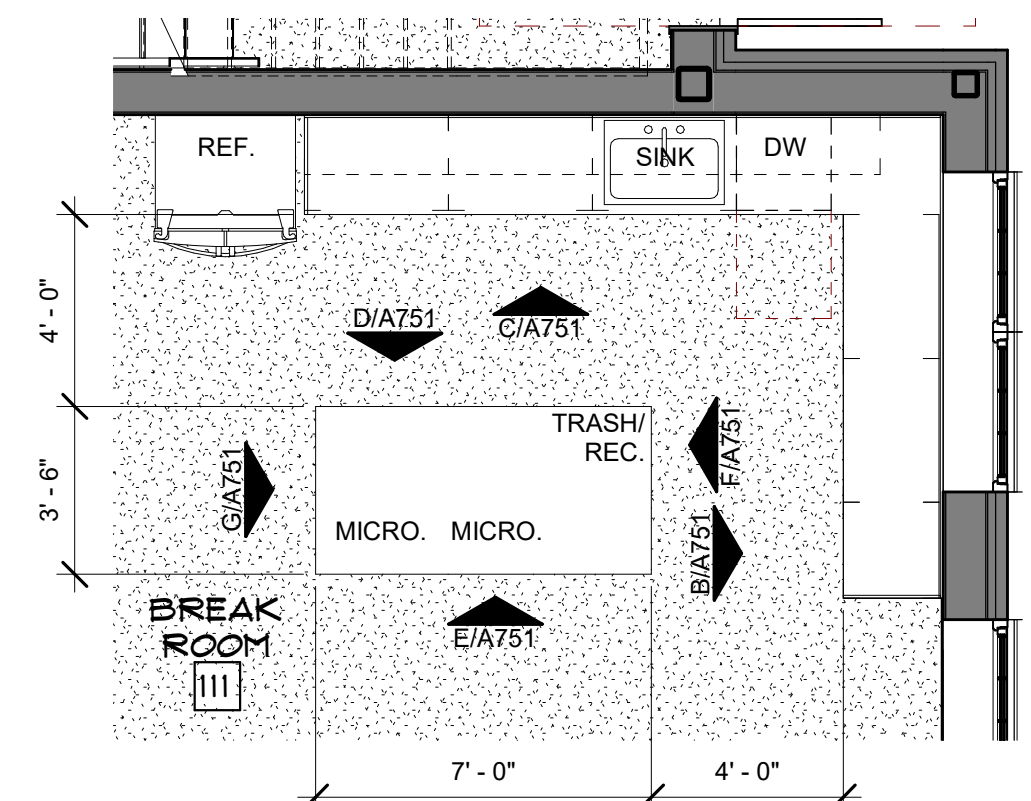
D INTERIOR ELEVATION
1/4" = 1'-0"



C INTERIOR ELEVATION
1/4" = 1'-0"



B INTERIOR ELEVATION
1/4" = 1'-0"



A ENLARGED PLAN
1/4" = 1'-0"

FINISH PLAN GENERAL NOTES

- ALL NEW BUILDING MATERIALS AND PRODUCTS SHALL NOT CONTAIN ASBESTOS.
- IN AREAS WHERE MORE THAN ONE FINISH APPEARS IN INTERIOR FINISH SCHEDULE, REFER TO INTERIOR ELEVATIONS, FINISH PLANS, AND REFLECTED CEILING PLANS FOR SPECIFIC LOCATIONS AND EXTENTS OF FINISHES.
- REFER TO FINISH PLANS FOR FLOORING FINISH LOCATIONS AND EXTENTS, FLOORING PATTERNS, AND TRANSITION STRIP LOCATIONS.
- REFER TO REFLECTED CEILING PLANS FOR CEILING TILE PATTERNS, SOFFIT LOCATIONS AND SIZES, AND CEILING AND SOFFIT HEIGHTS.
- CENTER ALL CEILING TILE PANELS AND GRID IN ROOM SO THAT NOT LESS THAN ONE HALF OF A TILE PANEL WIDTH IS INSTALLED AT ROOM PERIMETER UNLESS NOTED OTHERWISE.
- PROVIDE SEALANT AT ALL TILE INSIDE CORNERS AND AT DOOR FRAMES. COLOR TO MATCH ADJACENT GROUT COLOR.
- PROVIDE CONTROL JOINTS AT GYPSUM BOARD WALL AT EITHER SIDE OF DOOR AND WINDOW OPENINGS.
- ALL GYPSUM BOARD WALLS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULE.
- WALL BASE AT GYPSUM BOARD WALLS TO BE RB-1 UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD SOFFITS AND CEILINGS TO BE PAINTED PT-1B UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, AND INTERIOR FINISH SCHEDULE.
- ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED PT-1A UNLESS NOTED OTHERWISE.
- ALL INTERIOR WOOD DOORS AND WINDOW TRIM TO BE STAINED TO MATCH PL-1 UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL PANEL DOORS, ACCESS PANELS, AND WALL AND CEILING GRILLES SHALL BE FINISHED TO MATCH ADJACENT SURFACE UNLESS NOTED OTHERWISE.
- SWITCH PLATES AND ELECTRICAL DEVICES SHALL NOT BE PAINTED.
- PROVIDE 1/2" CEMENT BACKER BOARD AT ALL WALLS SHOWN TO RECEIVE TILE.
- REFER TO INTERIOR ELEVATIONS AND FINISH LEGEND FOR WALL TILE PATTERNS.
- WALL TILE SHALL BE INSTALLED BEHIND ALL MIRRORS AND TOILET ACCESSORIES.
- WALL TILE SHALL NOT BE INSTALLED BEHIND MILLWORK CABINETS.
- SCHLUTER FINEC F-110 E SHALL BE INSTALLED AT ALL VERTICAL EDGES AND OUTSIDE CORNERS OF WALL TILE.
- ENSURE LEVEL LINE OF TILE INSTALLATION OCCURS AT LOWEST POINT OF FLOOR SLAB TO ALLOW TILE TO BE CONTINUOUSLY FLUSH WITH VARIATION IN FLOOR SLAB.
- ADHERE BY TILE MANUFACTURER'S MINIMUM GROUT JOINT RECOMMENDATION.
- CHANGES IN FLOORING LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT REDUCING EDGE TREATMENT. CHANGES IN FLOORING LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. IF CHANGES IN FLOORING LEVEL ARE GREATER THAN 1/2", NOTIFY ARCHITECT FOR DETAIL TO PROVIDE ADA COMPLIANT RAMP.
- ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF DOOR LEAF UNLESS NOTED OTHERWISE.
- REFER TO INTERIOR ELEVATIONS FOR ALL TV MONITOR LOCATIONS. PROVIDE BLOCKING FOR ALL TV MONITORS.
- CONTRACTOR TO FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF MILLWORK.
- REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR EXACT LOCATIONS OF MILLWORK.
- COUNTERTOPS AND BACKSPLASHES TO RECEIVE CLEAR SEALANT AT WALL.
- RECEPTION DESK AND BREAK ROOM COUNTERTOPS TO BE Q-1; ALL OTHER COUNTERTOPS TO BE SS-1 UNLESS NOTED OTHERWISE.
- ALL MILLWORK TO BE PL-1 UNLESS NOTED OTHERWISE.
- FLOORING TO EXTEND BENEATH ALL MILLWORK, EQUIPMENT AND APPLIANCES.
- PROVIDE SIDE, TOP, AND BOTTOM FILLER PANELS AS REQUIRED TO COMPLETE THE MILLWORK AS INDICATED ON THE PLANS.
- INTERIOR ELEVATIONS AND MILLWORK SECTIONS.
- PROVIDE FINISHED END PANELS AT ALL EXPOSED CABINET ENDS INCLUDING KNEE SPACES.
- PROVIDE KEYPED LOCKS AT LOCATIONS INDICATED ON INTERIOR ELEVATIONS AND MILLWORK SECTIONS.
- ALL MILLWORK SHELVES TO BE ADJUSTABLE ON RECESSED STANDARDS AND BRACKETS, UNLESS NOTED OTHERWISE.
- SHELVES OVER 36" IN LENGTH TO BE 1" THICK.
- ALL METAL SUPPORT BRACKETS TO BE PAINTED TO MATCH ADJACENT WALL FINISH, UNLESS NOTED OTHERWISE.
- PROVIDE 2" PLASTIC GROMMETS IN MILLWORK COUNTERTOPS AT LOCATIONS INDICATED ON PLANS AND MILLWORK SECTIONS.

FINISH LEGEND

FLOOR FINISH		WALL FINISH	CEILING FINISH CONT.	
CONC-1	POLISHED CONCRETE	FRP-1 FIBERGLASS REINFORCED PLASTIC PANELS	ACT-2	CUSTOM ACOUSTIC PANEL SIZE: 4'-0" X 8'-0"; RE: A121 SHAPE: WAVE FABRIC: MATCHING PT-2
CONC-2	SEALED CONCRETE MANUF: SHERWIN WILLIAMS STYLE: H&C CLARISHIELD WATER-BASED WET-LOOK CONCRETE SEALER COLOR: CLEAR	PT-1 GENERAL WALL PAINT MANUF: SHERWIN WILLIAMS SHEEN: EGGSHELL COLOR: SW 7042 SHOJI WHITE	ACT-3	CUSTOM CEILING PANEL SIZE: 11'-10" X 13'-4"; RE: A123 SHAPE: BARREL VAULT COLOR: GRADIENT; RE: D1D101
CPT-1	CARPET TILE (FIELD) MANUF: MOHAWK STYLE: GROUNDCOVER COLOR: ROCKFACE SIZE: 12" X 36" INSTALLATION: STACKED BOND	PT-1A ACCENT WALL PAINT (HOLLOW METAL DOORS AND FRAMES) MANUF: SHERWIN WILLIAMS SHEEN: SATIN COLOR: SW 7640 FAWN BRINDLE	PT-1B	GYPSUM CEILING PAINT MANUF: SHERWIN WILLIAMS STYLE: FLAT COLOR: SW 7042 SHOJI WHITE
CPT-2	CARPET TILE (RED) MANUF: MOHAWK STYLE: MACRO BLOOM COLOR: FIREDOT SIZE: 12" X 36" INSTALLATION: STACKED BOND	PT-2 ACCENT WALL PAINT (RED) MANUF: FARROW & BALL SHEEN: EGGSHELL COLOR: RECTORY RED 217	PT-1C	CROWN MOLDING PAINT MANUF: SHERWIN WILLIAMS STYLE: MATTE COLOR: SW7042 SHOJI WHITE
CPT-3	CARPET TILE (BLUE) MANUF: MOHAWK STYLE: MACRO BLOOM COLOR: FELT FINISH SIZE: 12" X 36" INSTALLATION: STACKED BOND	PT-3 ACCENT WALL PAINT (BLUE) MANUF: FARROW & BALL SHEEN: EGGSHELL COLOR: PITCH BLUE 220	PT-4	ACCENT WALL PAINT (SKY BLUE) MANUF: FARROW & BALL SHEEN: MATTE COLOR: LULWORTH BLUE 89
TL-1	PORCELAIN TILE MANUF: TILEBAR STYLE: FORDHAM COLOR: NERO SIZE: 24"X24" INSTALLATION: STACKED BOND	MTL-1 METAL MANUF: MOZ DESIGNS STYLE: ALUMINUM METAL SHEET TERRACE WALL PANELS COLOR: CLASSIC CABERNET LINEN SIZE: 4'-0 X 8'-0" FINISH: POLYCOAT MATTE	PT-5	GYPSUM CEILING PAINT MANUF: SHERWIN WILLIAMS STYLE: FLAT COLOR: SW 7005 PURE WHITE
BASE FINISH		MISCELLANEOUS		
RB-1	RUBBER BASE MANUF: TARKETT STYLE: 4" COVE COLOR: 195 ASH	WP-1 WALL PLANKING, TRIM CARPENTRY STYLE: TONGUE AND GROOVE SIZE: 10" COLOR: WDST-1	MT-1	MIRROR TILE MANUF: ROBINSON GLASS STYLE: ANTIQUE
TB-1	TILE BASE MANUF: TILEBAR STYLE: FORDHAM COLOR: BIANCO SIZE: 24"X24" INSTALLATION: STACKED BOND	WTL-1 PORCELAIN WALL TILE MANUF: TILEBAR STYLE: FORDHAM COLOR: BIANCO SIZE: 24"X24" INSTALLATION: STACKED BOND	PL-1	PLASTIC LAMINATE MANUF: WILSONART COLOR: 8208 FAWN CYPRESS
		CEILING FINISH	SS-1	SOLID SURFACE MANUF: WILSONART COLOR: 1572SL ANITIQUE WHITE
		ACT-1 ACOUSTIC CEILING TILE MANUF: ARMSTRONG STYLE: LYRA SQUARE LAY-IN COLOR: WHITE SIZE: 2' X 2' GRID: PRELUDE 15/16", WHITE	Q-1	QUARTZ MANUF: WILSONART COLOR: QUARRY CLIFF
			WF-1	WINDOW FILM OPACITY: TRANSLUCENT NOTE: OCCURS AT ALL STOREFRONT INSTANCES
			WDST-1	WOOD STAIN CUSTOM TO MATCH PL-1
			WDST-2	WOOD STAIN CUSTOM TO MATCH WILSONART AMBER ALONA

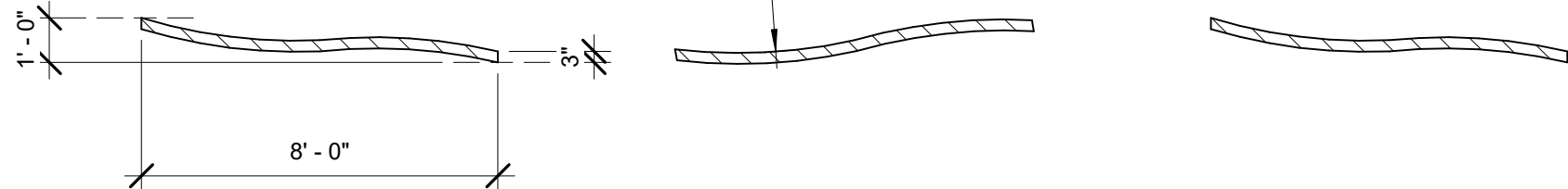
FROSTED BACKGROUND, KNOCKED OUT STARS



WF-1 DETAIL

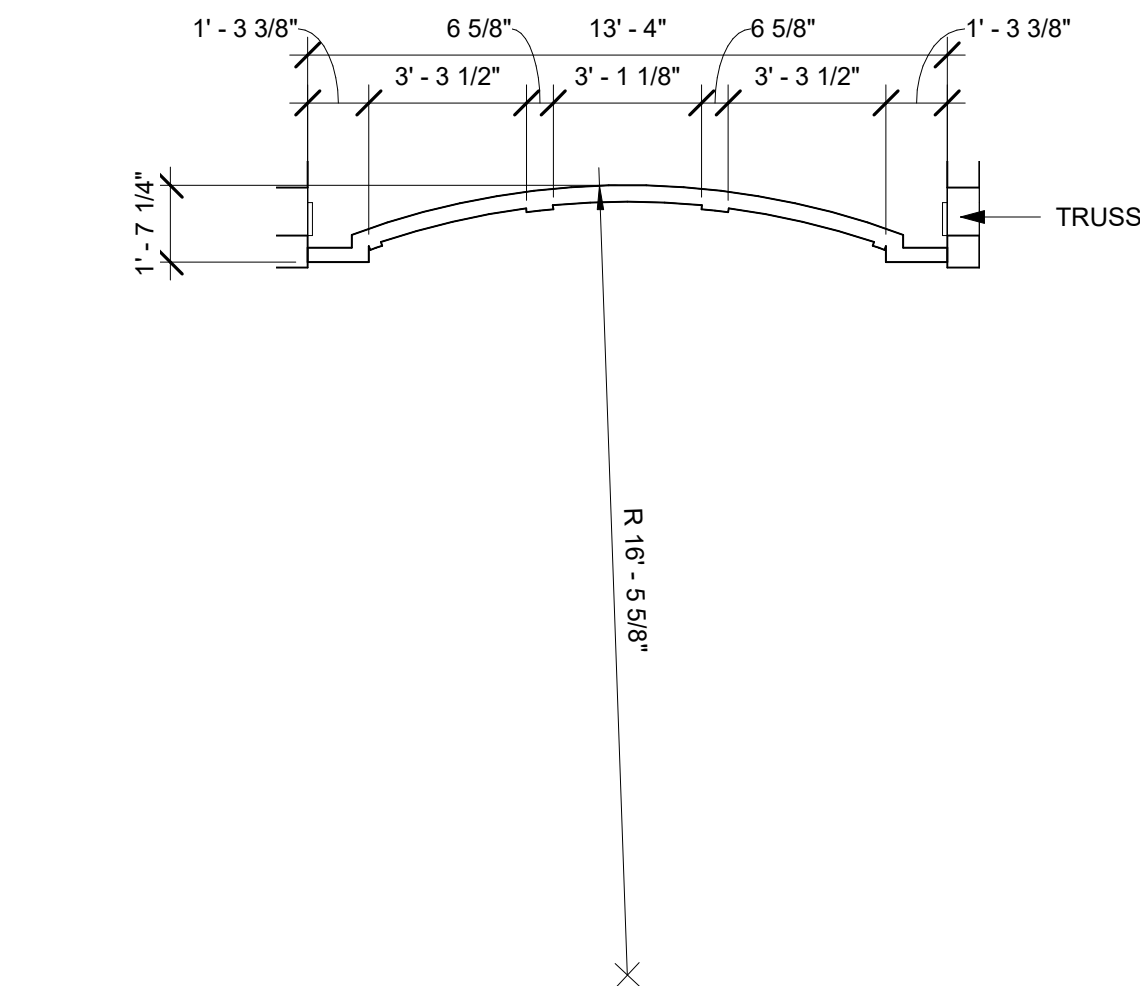
1" = 1'-0"

Finish Schedule					
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
001	STAIR	CONC-2	RB-1	PT-1	PT-1B
002	STAIR	CONC-2	RB-1	PT-1	PT-1B
100	LOBBY	CONC-1	RB-1	PT-1, MTL-1	WP-1, PT-1B, PT-1C
101	STORE	CPT-1	RB-1	PT-1	ACT-1
102	CONFERENCE	CPT-2, CPT-3	RB-1	PT-1, WP-1	PT-1B
103	WORK ROOM	CONC-1	RB-1	PT-1	OTS
104	OPEN OFFICE	CONC-1, CPT-1, CPT-3	RB-1	PT-1, WP-1	OTS
105	OFFICE	CPT-3	RB-1	PT-1, PT-2 (EAST WALL)	ACT-1
106	FIRE RISER	CONC-2	RB-1	PT-1	OTS
107	OFFICE	CPT-3	RB-1	PT-1, PT-3 (EAST WALL)	ACT-1
108	ELECTRICAL	CONC-2	RB-1	PT-1	OTS
109	DATA	CONC-2	RB-1	PT-1	OTS
110	CORRIDOR	CONC-1	RB-1	PT-1	PT-1B
111	BREAK ROOM	CONC-1	RB-1	PT-1	PT-1B
112	WOMEN'S	TL-1	TB-1	WTL-1, PT-1	PT-5
113	JAN.	CONC-2	RB-1	FRP-1	OTS
114	MEN'S	TL-1	TB-1	WTL-1, PT-1	PT-5
115	OPEN OFFICE	CONC-1, CPT-1, CPT-2	RB-1	PT-1, WP-1	ACT-2, OTS
116	OFFICE	CPT-2	RB-1	PT-1, PT-3 (EAST WALL)	ACT-1
117	OFFICE	CPT-2	RB-1	PT-1	ACT-1
118	OFFICE	CPT-2	RB-1	PT-1, PT-2 (EAST WALL)	ACT-1
200	CORRIDOR	CONC-1, CPT-1	RB-1	PT-1	PT-1B, PT-1C, OTS
201	FUTURE OFFICE SPACE	CONC-2	UNFINISHED	UNFINISHED	OTS
202	FUTURE OFFICE SPACE	CONC-2	UNFINISHED	UNFINISHED	OTS
203	OFFICE	CPT-1	RB-1	PT-1	ACT-1
204	OFFICE	CPT-1	RB-1	PT-1	ACT-1
205	JAN.	CONC-2	RB-1	FRP-1	OTS
206	ELEC.	CONC-2	RB-1	PT-1	OTS
207	STO.	CONC-2	RB-1	PT-1	OTS
208	MEN'S	TL-1	TB-1	WTL-1, PT-1	PT-5
209	WOMEN'S	TL-1	TB-1	WTL-1, PT-1	PT-5
210	OFFICE	CPT-1	RB-1	PT-1	PT-1, ACT-1
211	SHOWER	TL-1	TB-1	WTL-1, PT-1	PT-5
212	INNOVATION STUDIO	CONC-2	RB-1	PT-1	OTS
213	SHOWER	TL-1	TB-1	WTL-1, PT-1	PT-5
214	OFFICE	CPT-1	RB-1	PT-1	ACT-1
215	OFFICE	CPT-1	RB-1	PT-1	ACT-1
216	OFFICE	CPT-1	RB-1	PT-1	ACT-1
217	OFFICE	CPT-1	RB-1	PT-1	ACT-1
218	OFFICE	CPT-1	RB-1	PT-1	ACT-1
219	OFFICE	CPT-1	RB-1	PT-1	ACT-1
301	LOUNGE	CONC-1	-	WP-1	WP-1, PT-4
302	BAR	CONC-1	-	WP-1	WP-1, PT-1B
303	LOUNGE	CONC-1	-	WP-1	WP-1, PT-4
304	PATIO	ELEVATED PAVERS	-	-	-
305	CORRIDOR	CONC-1	RB-1	PT-1	PT-1B
306	MECH.	CONC-2	RB-1	PT-1	OTS
307	TOILET	TL-1	TB-1	WTL-1, PT-1	PT-5
308	TOILET	TL-1	TB-1	WTL-1, PT-1	PT-5
309	BAR STORAGE	CONC-2	RB-1	PT-1	PT-5
310	JAN.	CONC-2	RB-1	FRP-1	PT-5



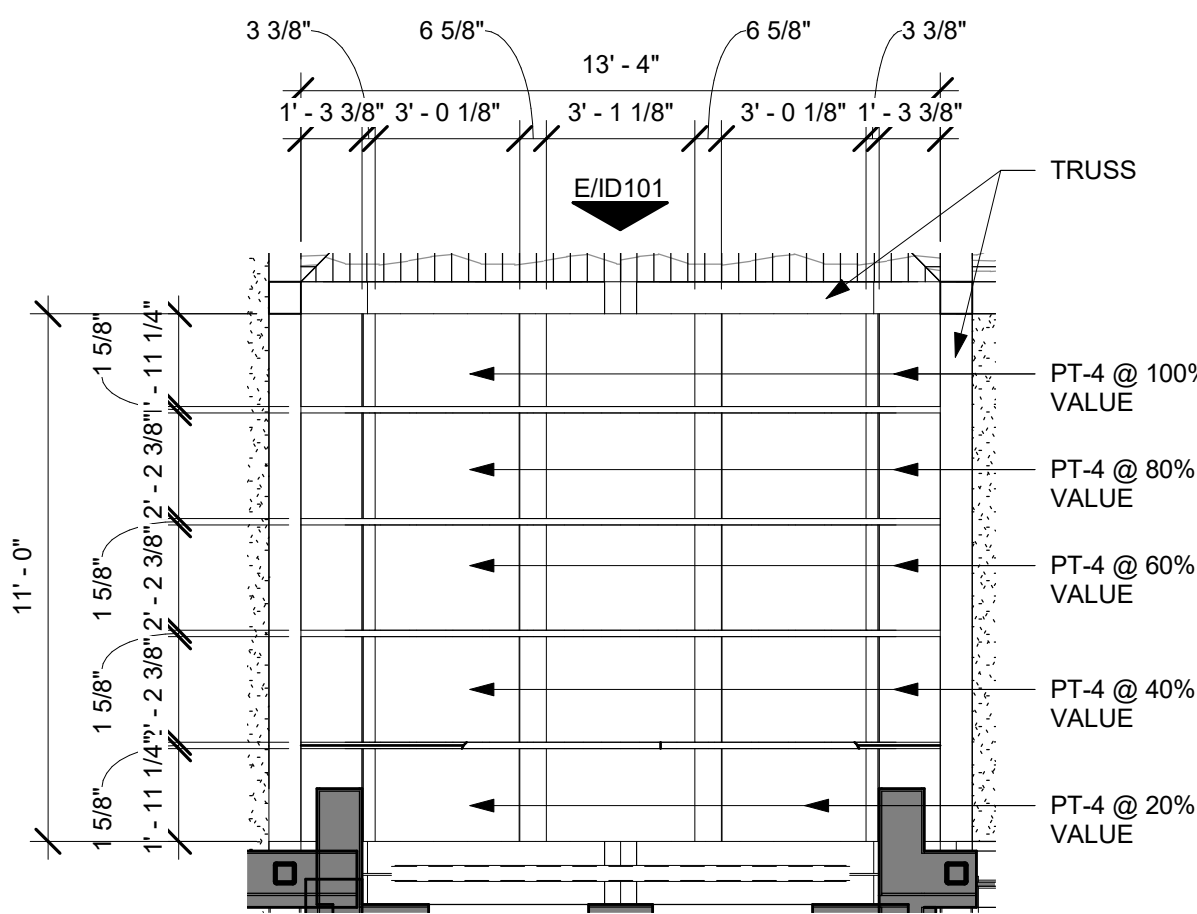
ACT-2 PROFILE

1/4" = 1'-0"



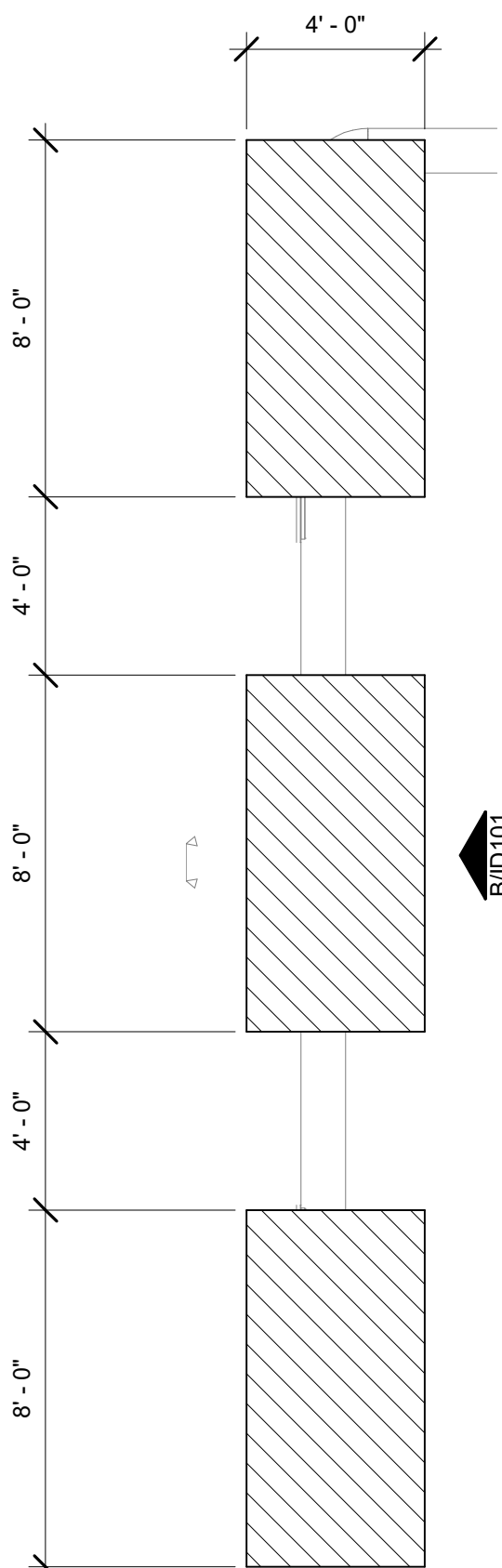
ACT-3 PROFILE

1/4" = 1'-0"



ACT-3 DETAIL

1/4" = 1'-0"



ACT-2 DETAIL

1/4" = 1'-0"

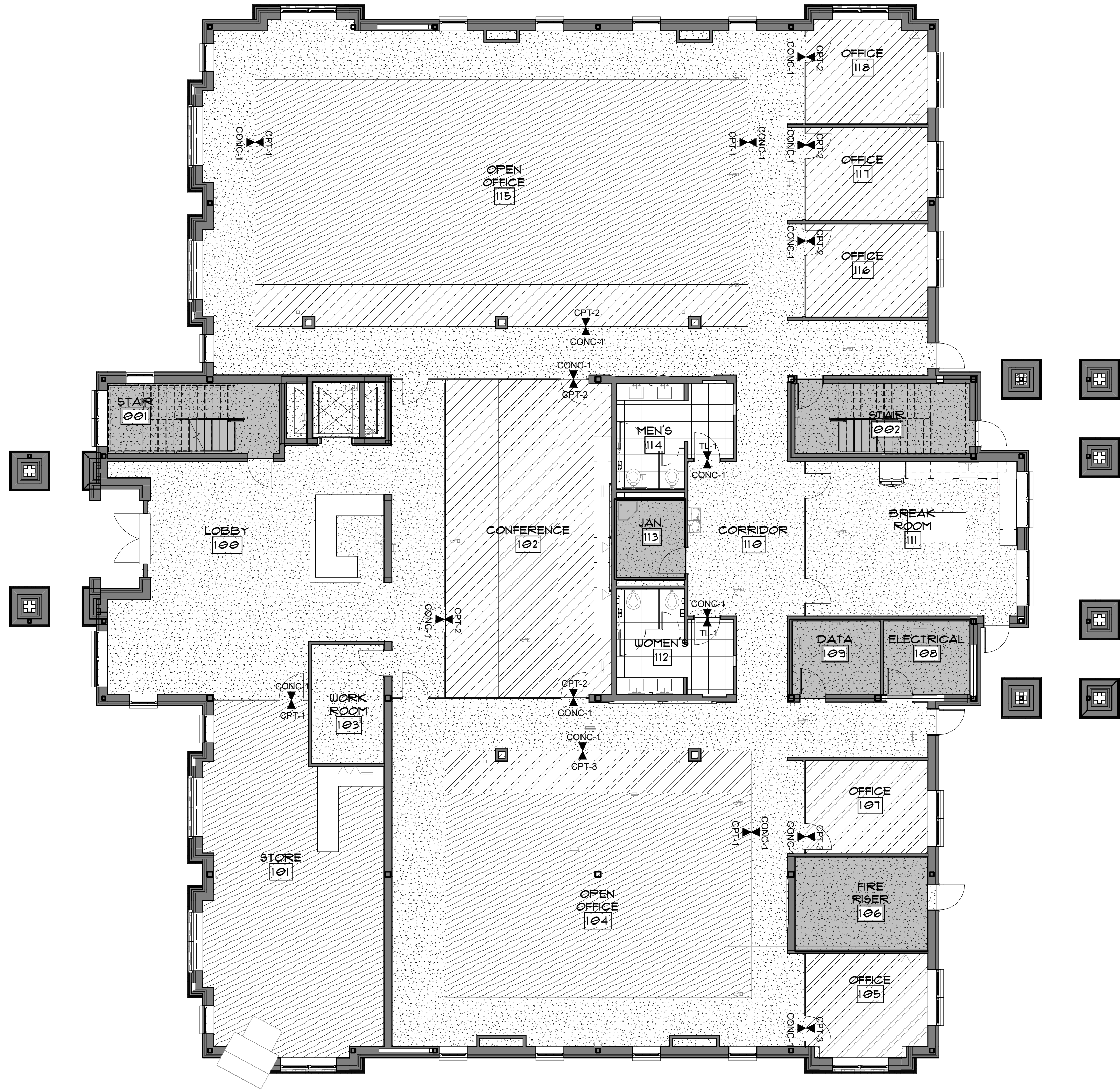
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FINISH LEGEND AND SCHEDULE

SHEET NUMBER:

ID101

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A FINISH PLAN - FIRST FLOOR
1/8" = 1'-0"

FLOOR FINISH LEGEND

	CONC-1		CPT-2		FLOORING DIRECTION
	CONC-2		CPT-3		FLOORING TRANSITION
	CPT-1		TL-1		

INTERIM REVIEW ONLY

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Folds of Honor Operations Building

5917 Patriot Drive, Owasso, OK 74055

GH2 PROJECT NUMBER:
20170021

ISSUE DATE:
08/07/2020

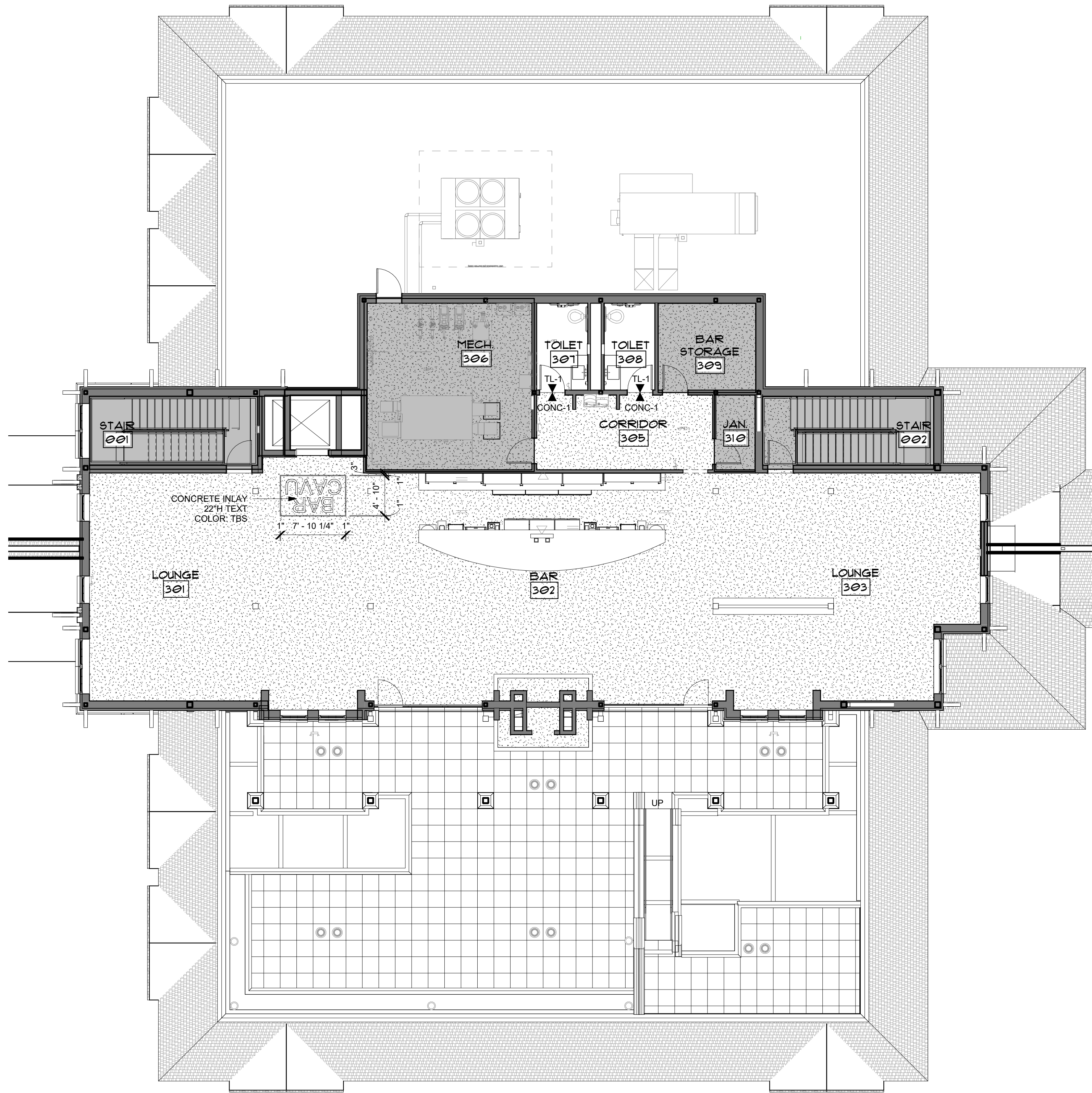
ISSUE:
PROGRESS SET

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
**INTERIOR FINISH
PLAN - FIRST
FLOOR**

SHEET NUMBER:
ID102

8/7/2020 3:41:29 PM



A FINISH PLAN - THIRD FLOOR
1/8" = 1'-0"

FLOOR FINISH LEGEND

	CONC-1		CPT-2		FLOORING DIRECTION	
	CONC-2		CPT-3			FLOORING TRANSITION
	CPT-1		TL-1			

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GH2 PROJECT NUMBER:
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ISSUE DATE:
08/07/2020

ISSUE:
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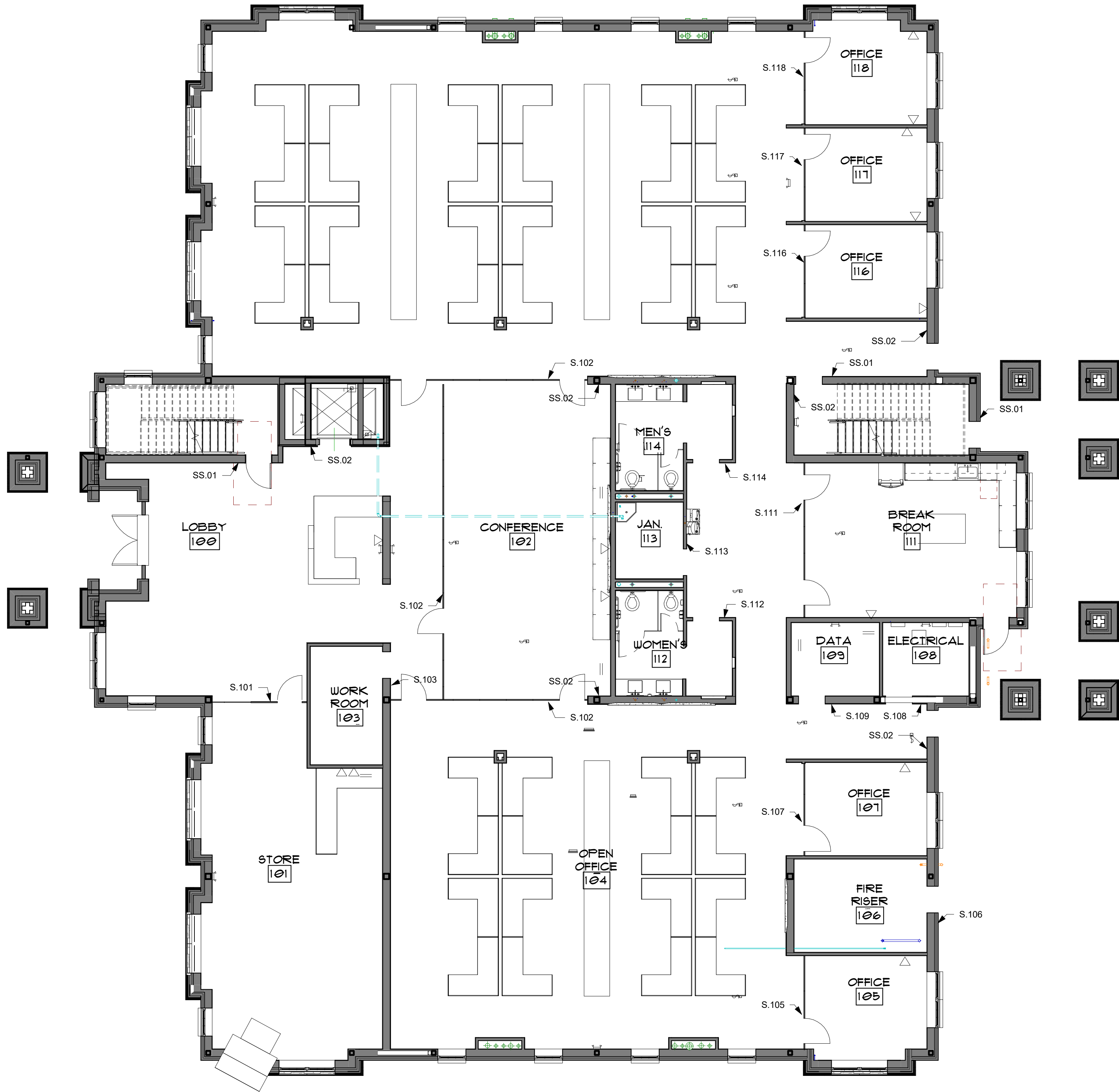
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SHEET NAME:
**INTERIOR FINISH
PLAN - THIRD
FLOOR**

SHEET NUMBER:
ID104

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A SIGNAGE PLAN - FIRST FLOOR
1/8" = 1'-0"



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ISSUE DATE:
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ISSUE:
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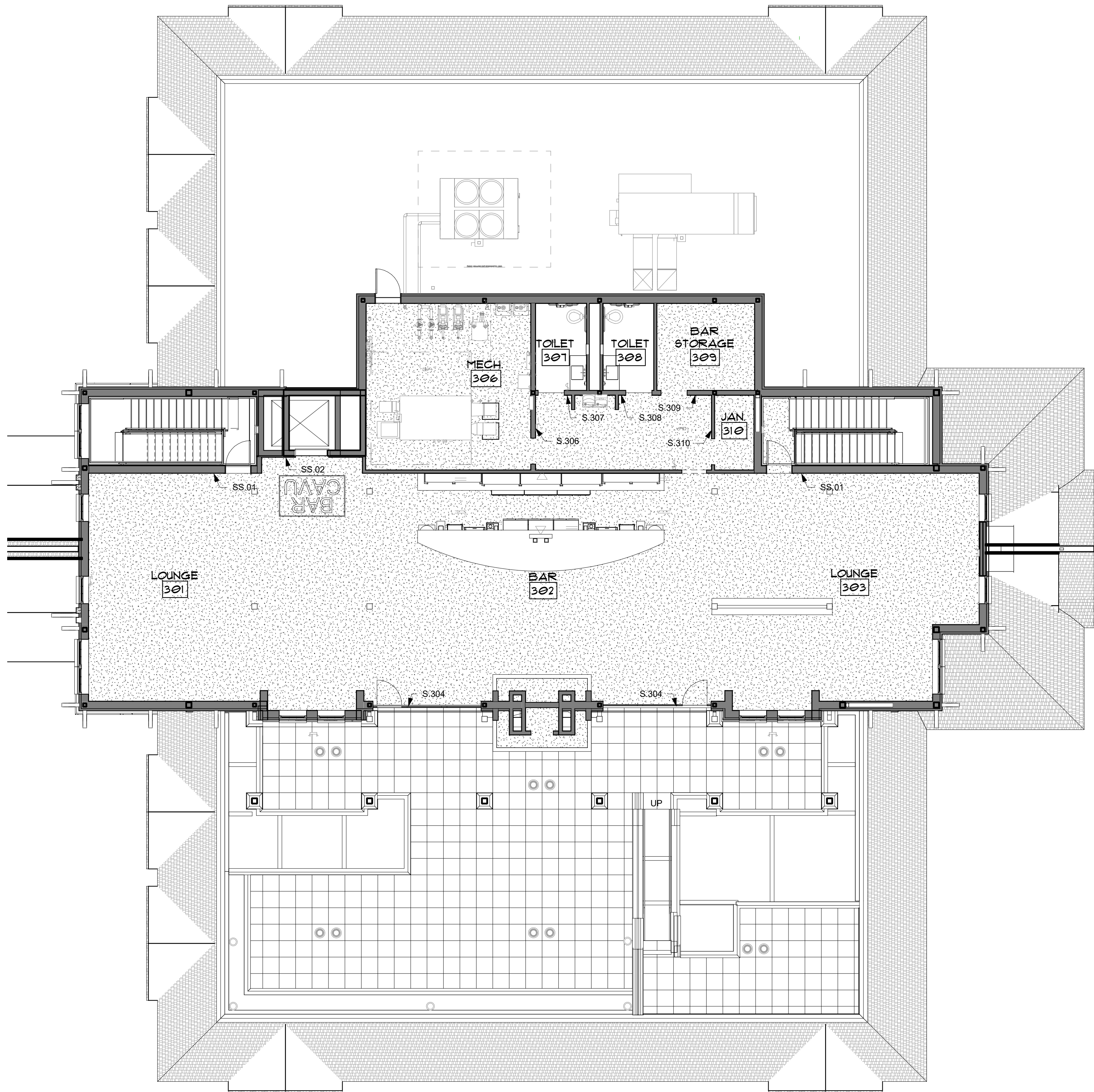
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SHEET NAME:
**SIGNAGE PLAN -
FIRST FLOOR**

SHEET NUMBER:
ID201



A SIGNAGE PLAN - THIRD FLOOR
1/8" = 1'-0"



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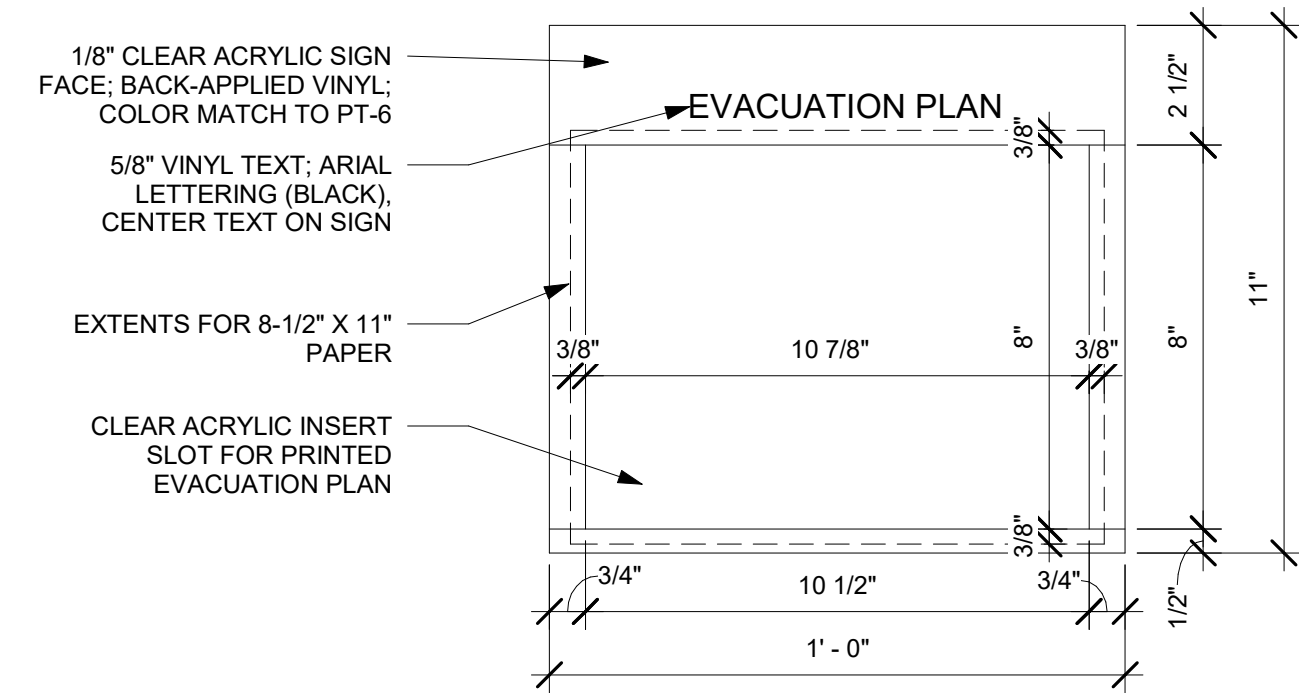
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08/07/2020

ISSUE:
PROGRESS SET

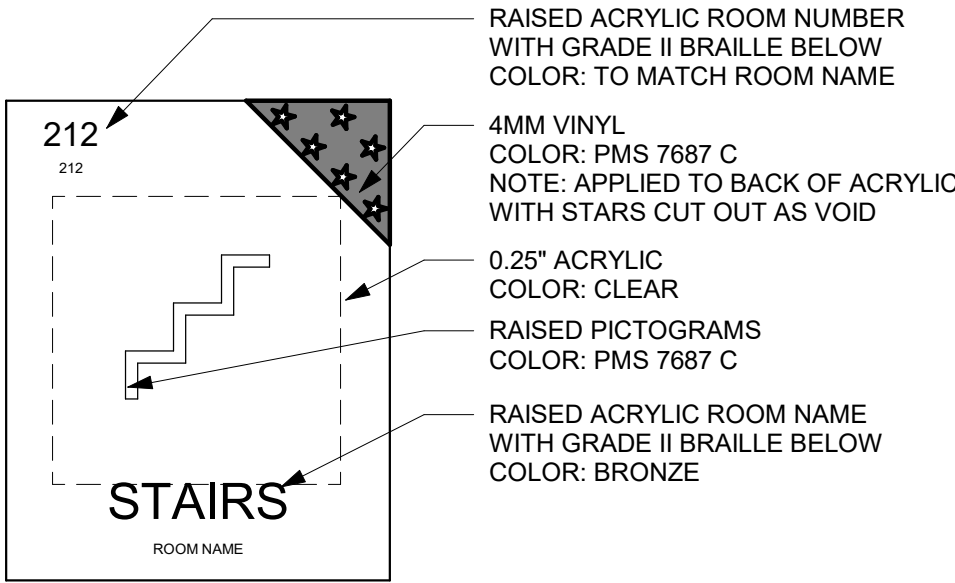
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**SIGNAGE PLAN -
THIRD FLOOR**

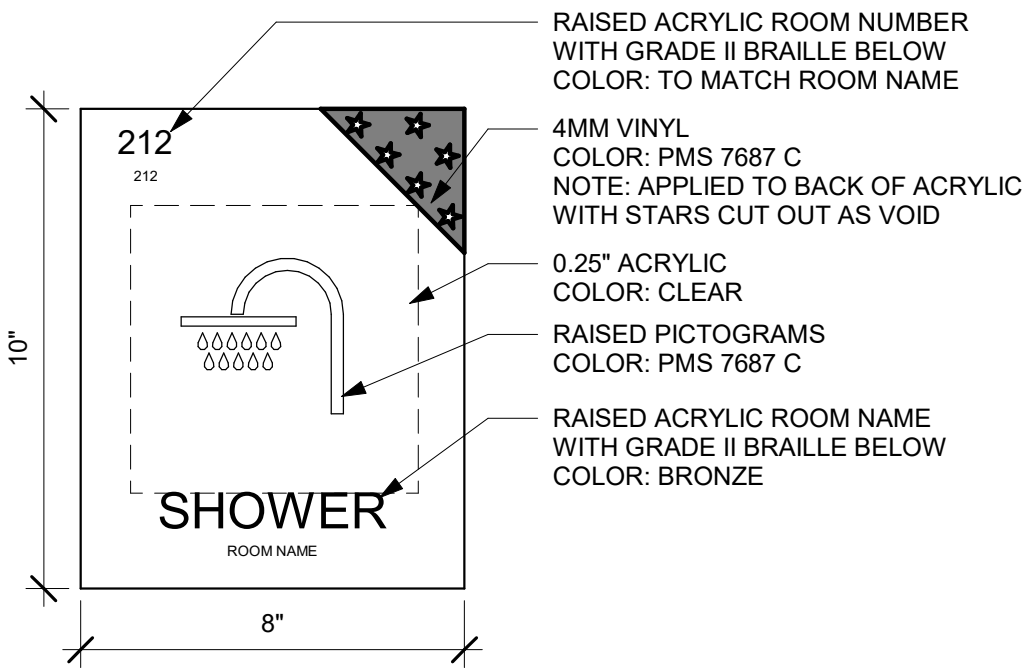
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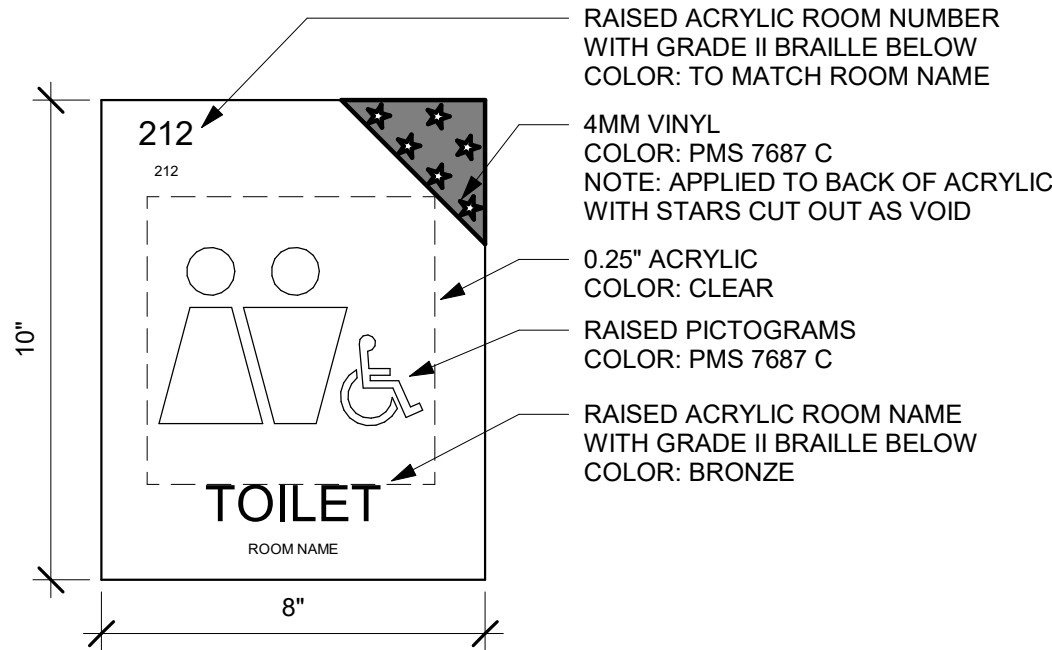
K Signage - Evacuation (SS.02)
3" = 1'-0"



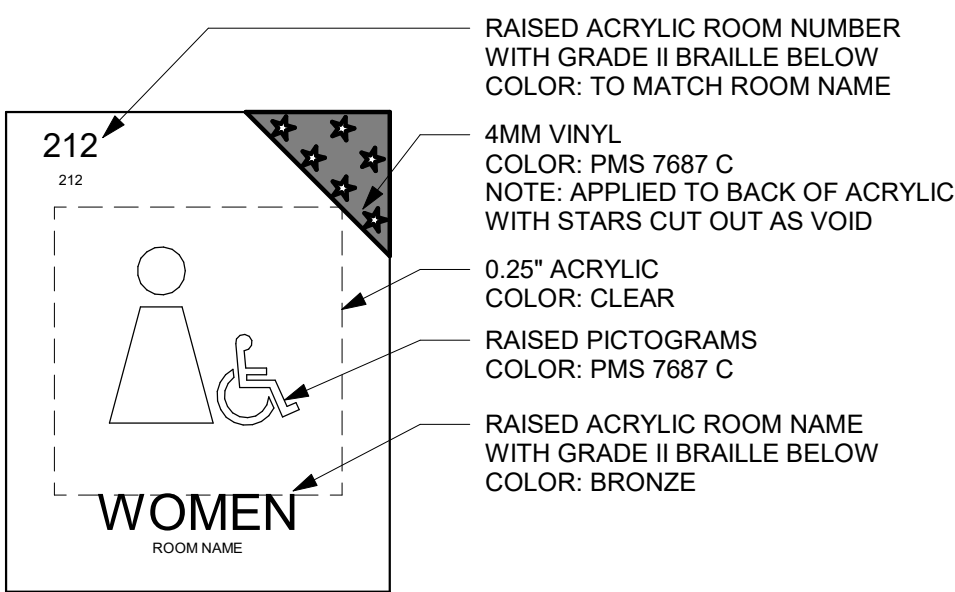
J SIGNAGE - STAIRS
3" = 1'-0"



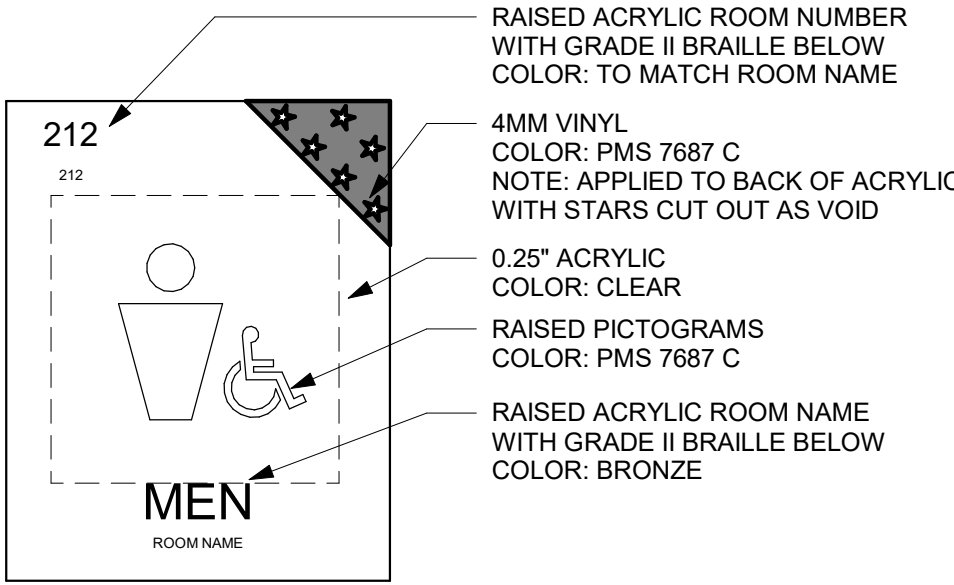
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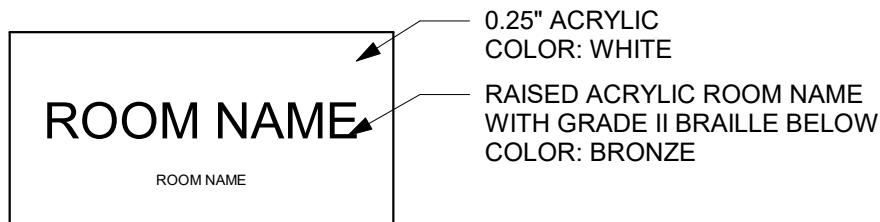
G SIGNAGE - TOILET
3" = 1'-0"



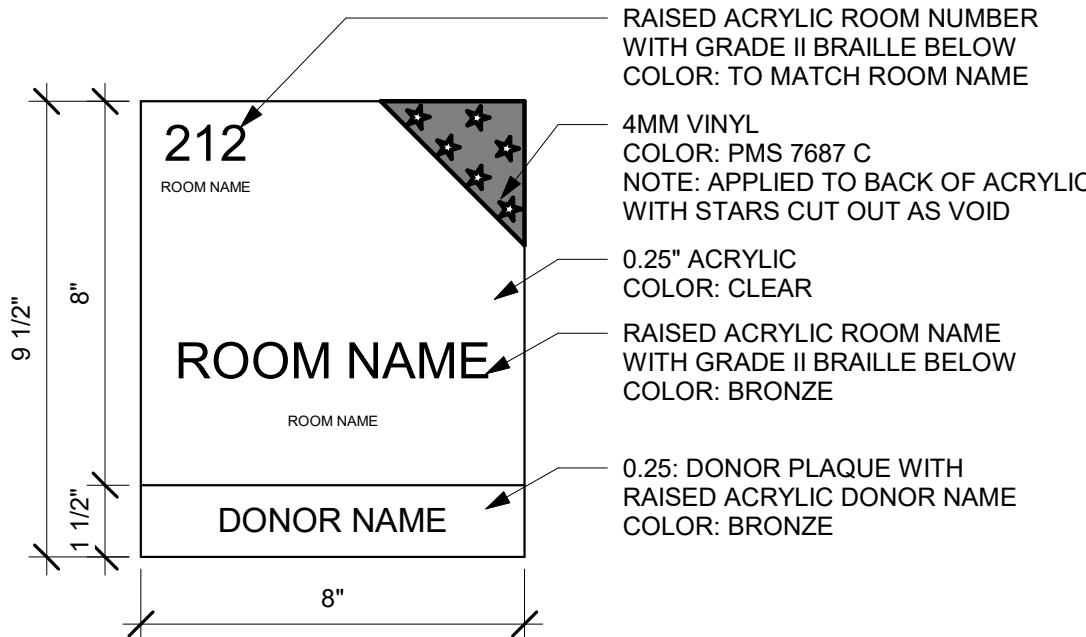
F SIGNAGE - WOMEN
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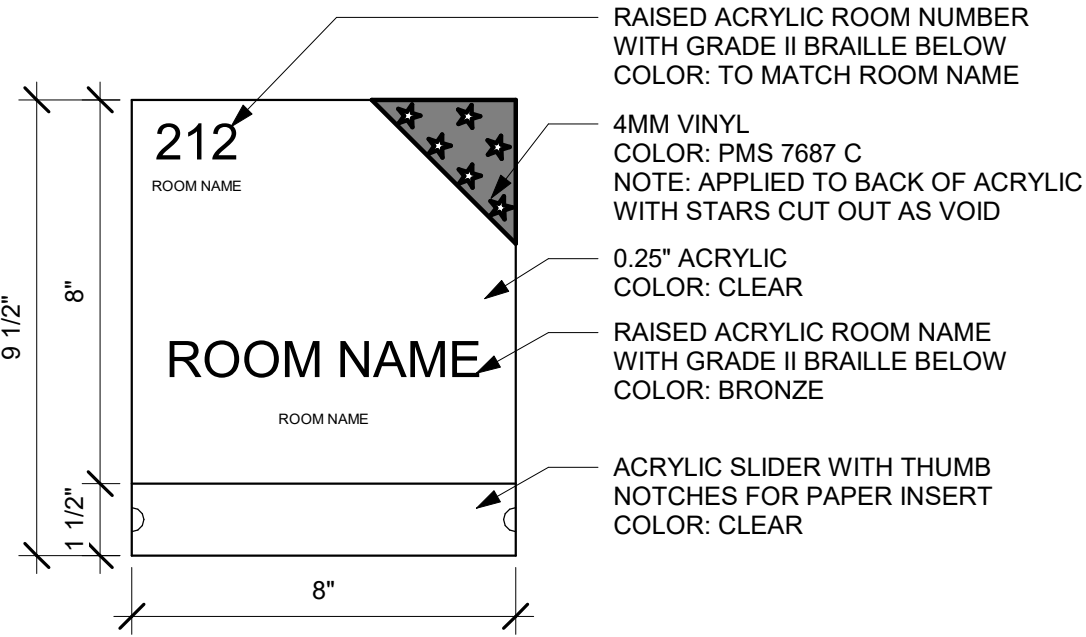
E Signage - MEN
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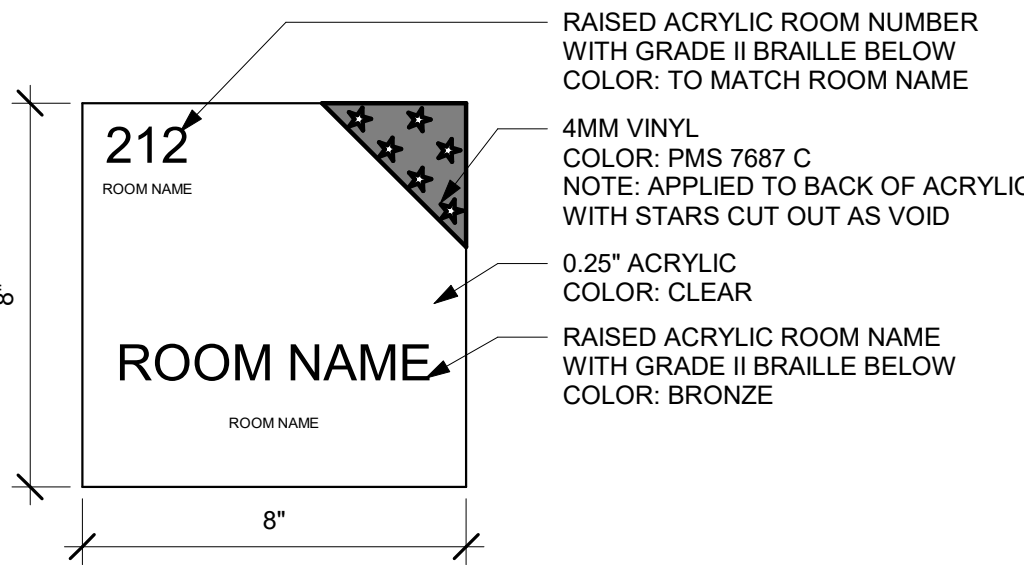
D Signage - Minimal
3" = 1'-0"



C Signage - Donor
3" = 1'-0"



B Signage - Changeable
3" = 1'-0"



A Signage - General
3" = 1'-0"

Signage Schedule						
Sign Tag	Number	Name	Sign Text	Sign Type	Qty.	Notes
SS.01	001	STAIR	STAIR	RE: J/ID204	3	
SS.01	002	STAIR	STAIR	RE: J/ID204	3	
S.112	102	CONFERENCE	CONFERENCE	RE: A/ID204	3	
S.103	103	WORK ROOM	WORK ROOM	RE: A/ID204	1	
S.107	105	OFFICE	OFFICE	RE: B/ID204	1	
S.108	106	FIRE RISER	FIRE RISER	RE: A/ID204	1	EXTERIOR INSTALLATION
S.109	107	OFFICE	OFFICE	RE: B/ID204	1	
S.110	108	ELECTRICAL	ELECTRICAL	RE: D/ID204	1	
S.111	109	DATA	DATA	RE: D/ID204	1	
S.112	111	BREAK ROOM	BREAK ROOM	RE: A/ID204	1	
S.113	112	WOMEN'S	WOMEN	RE: F/ID204	1	
S.114	113	JAN.	CUSTODIAN	RE: D/ID204	1	
S.114	114	MEN'S	MEN	RE: E/ID204	1	
S.116	116	OFFICE	OFFICE	RE: B/ID204	1	
S.117	117	OFFICE	OFFICE	RE: B/ID204	1	
S.118	118	OFFICE	OFFICE	RE: B/ID204	1	
S.203	203	OFFICE	OFFICE	RE: B/ID204	1	
S.204	204	OFFICE	OFFICE	RE: B/ID204	1	
S.205	205	JAN.	CUSTODIAN	RE: D/ID204	1	
S.206	206	MECHANICAL	MECHANICAL	RE: D/ID204	1	
S.205	207	STO.	STORAGE	RE: D/ID204	1	
S.207	208	MEN'S	MEN	RE: E/ID204	1	
S.208	209	WOMEN'S	WOMEN	RE: F/ID204	1	
S.210	210	OFFICE	OFFICE	RE: B/ID204	1	
S.210	211	SHOWER	SHOWER	RE: H/ID204	1	
S.212	213	SHOWER	SHOWER	RE: H/ID204	1	
S.213	214	OFFICE	OFFICE	RE: B/ID204	1	
S.214	215	OFFICE	OFFICE	RE: B/ID204	1	
S.215	216	OFFICE	OFFICE	RE: B/ID204	1	
S.216	217	OFFICE	OFFICE	RE: B/ID204	1	
S.217	218	OFFICE	OFFICE	RE: B/ID204	1	
S.218	219	OFFICE	OFFICE	RE: B/ID204	1	
S.307	304	PATIO	PATIO	RE: A/ID204	2	
S.305	305	JAN.	CUSTODIAL	RE: D/ID204	1	
S.302	306	MECH.	MECHANICAL	RE: D/ID204	1	
S.303	307	TOILET	TOILET	RE: G/ID204	1	
S.304	308	TOILET	TOILET	RE: G/ID204	1	
S.310	310	JAN.	CUSTODIAL	RE: D/ID204	1	
SS.02	VARIES	EVACUATION	EVACUATION	RE: K/ID204	8	

DESIGN PARAMETERS		
1. BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE		
2. DEAD LOADS:		
A. ROOF-----	25 PSF	
B. FLOOR-----	65 PSF	
C. ROOF TOP PATIO-----	95 PSF	
D. ROOF TOP PATIO AT PLANTERS-----	550 PSF	
E. ROOF TOP PATIO TREES-----		
• BLACK GUM-----	6,000 LBS	
• REDBUD-----	3,000 LBS	
3. LIVE LOADS:		
A. FLOOR-----	20 PSF	
B. 2ND FLOOR-----	80 PSF	
C. 3RD FLOOR-----	100 PSF	
D. ROOF TOP PATIO-----	100 PSF	
E. STAIRS-----	100 PSF	
4. SNOW LOADS:		
A. GROUND SNOW LOAD, Pg-----	10 PSF	
5. WIND LOADS:		
A. BASIC WIND SPEED (3 SECOND GUST)-----	115 MPH	
B. RISK CATEGORY-----	II	
C. EXPOSURE CLASSIFICATION-----	C	
D. INTERNAL PRESSURE COEFFICIENT-----	+ 0.18	
E. BASIC WIND PRESSURE (qh, UNFACTORED)-----	31.3 PSF	
F. DESIGN WIND PRESSURE ON EXTERIOR WALLS (C&C LOAD BASED ON 100 SQ. FT AREA)-----		
• END ZONES, (a=11'-0")-----	38.5 PSF	
• INTERIOR ZONES-----	34.6 PSF	
G. DESIGN UPLIFT PRESSURE ON ROOFS (C&C LOAD BASED ON 100 SQ. FT AREA)-----		
• CORNER ZONES, (a=11'-0")-----	40.1 PSF	
• EDGE ZONES, (a=11'-0")-----	40.1 PSF	
• INTERIOR ZONES-----	33.9 PSF	
6. SEISMIC LOADS:		
A. SPECTRAL RESPONSE ACCELERATION; (SHORT PERIOD), Ss-----	0.128	
B. SPECTRAL RESPONSE ACCELERATION; (1-SEC. PERIOD), S1-----	0.069	
C. SPECTRAL RESPONSE COEFFICIENT; (SHORT PERIOD), Sds-----	0.102	
D. SPECTRAL RESPONSE COEFFICIENT; (1-SEC. PERIOD), Sd1-----	0.078	
E. SITE CLASS-----	C	
F. IMPORTANCE FACTOR, I-----	1.0	
G. SEISMIC DESIGN CATEGORY-----	B	
H. BASIC STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM-----	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	
I. RESPONSE MODIFICATION FACTOR, R-----	3	
J. SYSTEM OVER-STRENGTH FACTOR, W-----	3	
K. DEFLECTION AMPLIFICATION FACTOR, Cd-----	3	
L. ANALYSIS PROCEDURE-----	EQUIVALENT LATERAL FORCE	
7. FOUNDATIONS:		
A. GEOTECHNICAL REPORT-----		
• FOLDS OF HONOR-----		
• AIRMIGHT TESTING & ENGINEERING, LLC-----		
• AIRMIGHT PROJECT NUMBER - 6560619-----		
• MARCH 12, 2020-----		
B. FOUNDATION TYPE-----	SHALLOW SPREAD FOOTINGS	
C. BEARING MATERIAL-----	WEATHERED LIMESTONE	
• ALL FOUNDATION BEARING SUBGRADES MUST BE OVER-EXCAVATED DOWN TO AND BEAR DIRECTLY ON WEATHERED LIMESTONE OR OVER-EXCAVATED TO WEATHERED LIMESTONE AND BACKFILLED WITH CONCRETE BACK TO THE PLANNED BEARING ELEVATIONS.		
D. NET ALLOWABLE BEARING PRESSURE-----	7,500 PSF	
E. MINIMUM FOUNDATION DEPTH BELOW GRADE-----	24 INCHES	
F. ESTIMATED TOTAL SETTLEMENT-----	1 INCH OR LESS	
G. ESTIMATED DIFFERENTIAL SETTLEMENT-----	1/2 INCH OR LESS	
H. LOW VOLUME CHANGE FILL LAYER BELOW SLAB-----		
• THE EXISTING MODERATELY TO HIGHLY PLASTIC CLAY ABOVE THE WEATHERED LIMESTONE SHALL BE REMOVED (APPROX. 1 TO 3.5 FT) AND BACK FILLED WITH COMPACTED ENGINEERING FILL.		

GENERAL

- STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.
- WHERE CONFLICT EXISTS AMONG VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
- WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, THE FOLLOWING RULES SHALL APPLY:
 - COLUMNS ARE CENTERED ON GRID LINES.
 - FOOTINGS ARE CENTERED BENEATH COLUMNS.
 - CONTINUOUS FOOTINGS ARE CENTERED BENEATH WALLS.
 - FRAMING MEMBERS ARE EITHER LOCATED ON GRID LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
- ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.
- THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE FINAL STRUCTURE ONCE COMPLETED AND OCCUPIED. THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING AND RESHORING, OR ANY OTHER PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.
- WEIGHTS OF MECHANICAL EQUIPMENT SHOWN ON THE STRUCTURAL PLANS ARE FOR UNITS SPECIFIED BY THE MECHANICAL ENGINEER. CONTRACTOR SHALL VERIFY THE WEIGHTS. ANY SUBSTITUTIONS THAT RESULT IN INCREASED WEIGHT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. OPENINGS AND PENETRATIONS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
- PRIOR TO FABRICATION AND/OR ERECTION OF ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER OF RECORD OR THE ARCHITECT IMMEDIATELY UPON DISCOVERY.
- BACKFILL BOTH SIDES OF ALL FOUNDATION AND RETAINING WALLS EQUALLY UNTIL LOW SIDE IS UP TO FINISH GRADE. DO NOT BACKFILL ANY WALLS UNTIL CONCRETE HAS REACHED ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- CONNECTIONS OF SYSTEMS DESIGNED BY THE CONTRACTOR'S ENGINEER SUCH AS, BUT NOT LIMITED TO, CLADDING, STAIRS, ELEVATORS AND MEP LOADS ARE ASSUMED TO IMPOSE VERTICAL AND/OR HORIZONTAL LOADS ON THE BASE BUILDING STRUCTURAL MEMBERS WITHOUT GENERATING TORSION IN THE SUPPORTING STRUCTURAL MEMBERS. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL SUPPLEMENTARY BRACING MEMBERS AS REQUIRED TO PREVENT TORSION ON THE BASE BUILDING STRUCTURE.
- ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
 - A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
 - THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED WITH THE REQUEST.
- THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF 360 ENGINEERING GROUP, PLLC, IS SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK COMPLETED AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN A MANNER INDICATED THAT THE WORK, WHEN FULLY COMPLETED, WILL BE IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS AN EXHAUSTIVE OR CONTINUOUS CHECK OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

DIVISION 2 - FOUNDATIONS

- RECOMMENDATIONS CONTAINED IN GEOTECHNICAL REPORT WERE USED FOR DESIGN. REFER TO DESIGN PARAMETERS FOR SOIL DESIGN CRITERIA BASED ON THESE RECOMMENDATIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT AND SHALL FOLLOW THE RECOMMENDATIONS SPECIFIED THEREIN, INCLUDING, BUT NOT LIMITED TO, SUBGRADE PREPARATIONS, GROUND WATER MANAGEMENT AND STEEP SLOPE BEST MANAGEMENT PRACTICES.
- THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PROOF ROLLING AND SHALL INSPECT THE SUBGRADE PRIOR TO ANY FILL OPERATIONS. ALL COMPACTED FILL SHALL BE CONTINUOUSLY INSPECTED BY THE OWNER'S SELECTED INDEPENDENT TESTING LABORATORY.
- FOOTINGS SHALL BEAR EITHER ON COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL AS PER THE GEOTECHNICAL REPORT. EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 24 INCHES BELOW FINISH GRADE UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER AND/OR BUILDING OFFICIAL. IF THE SOIL AT THE BEARING ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, THE STRUCTURAL ENGINEER OF RECORD OR ARCHITECT SHALL NOTIFY IMMEDIATELY.
- ALL FILL MATERIAL UNDER THE STRUCTURE SHALL COMPLY WITH REQUIREMENTS STATED IN THE GEOTECHNICAL REPORT, UNO.
- PROVIDE A MINIMUM OF 4-INCH CLEAN, FREE-DRAINING GRANULAR SUBBASE FILL BELOW ALL INTERIOR SLABS-ON-GRADE UNLESS NOTED OR DETAILED OTHERWISE. SUBBASE SHALL MEET GRADATION REQUIREMENTS OF ASTM C-33 SIZE NO. 67, UNLESS SPECIFICALLY NOTED OTHERWISE.
- A POLYETHYLENE FILM VAPOR RETARDER, MEETING THE REQUIREMENTS IN THE SPECIFICATIONS, SHALL BE PLACED BELOW ALL INTERIOR SLABS-ON-GRADE PER THE FOUNDATION PLAN NOTES.
- THE CONTRACTOR IS CAUTIONED AGAINST LOADING SLAB-ON-GRADE WITH CONSTRUCTION EQUIPMENT. THE SLAB HAS NOT BEEN DESIGNED FOR CONSTRUCTION EQUIPMENT AND MAY REQUIRE AN INCREASE IN SLAB THICKNESS AND/OR REINFORCEMENT. IF THE CONSTRUCTION LOADING EXCEEDS THE DESIGN LOADS SHOWN IN THE DESIGN CRITERIA, THE CONTRACTOR IS REQUIRED TO SUBMIT CALCULATIONS SIGNED AND SEALED BY A REGISTERED STRUCTURAL, CIVIL, OR GEOTECHNICAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE SLAB.
- EXTERIOR FOOTINGS FOR STAIRS AND RAMPS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH.
- FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.

DIVISION 3 - CONCRETE

- ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301.
- CONTRACTOR SHALL FOLLOW ACI 306.1 FOR COLD WEATHER CONCRETE PLACEMENT AND CURING GUIDELINES.
- ARRANGEMENTS AND DETAIL OF REINFORCING BENDS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF PUBLICATION SP-66, "ACI DETAILING MANUAL," AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
- UNLESS NOTED OTHERWISE, BAR SPLICES SHALL BE CLASS B TENSION LAPS AND SHALL BE LAPPED WITH MINIMUM LENGTHS AS LISTED IN THE LAP LENGTH SCHEDULE, WHERE REQUIRED IN REINFORCING. SHORTER LAPS MAY BE ACCEPTABLE IF SPECIFIC LOCATIONS OF ALTERNATE LAPS ARE SHOWN ON THE REINFORCING PLACEMENT DRAWINGS AND CALCULATIONS ARE SUBMITTED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, JUSTIFYING THE ALTERNATE LAP LENGTHS.
- PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION BEFORE PLACING CONCRETE.
- ALL WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 12" AT THE SIDES AND ENDS.
- LOCATIONS AND SIZES OF OPENINGS, SLEEVES, ETC. REQUIRED FOR OTHER TRADES MUST BE VERIFIED BY THESE TRADES BEFORE PLACING CONCRETE.
- ALL SLOTS, SLEEVES, TRENCHES AND OTHER EMBEDDED ITEMS SHALL BE SET AND SECURED AGAINST MOVEMENT BEFORE THE CONCRETE IS PLACED. SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND VENDOR DRAWINGS FOR SIZES, AND LOCATIONS. COORDINATE LOCATIONS, SPACING, AND SIZES WITH THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PLACING CONCRETE.
- AS PART OF THE SUBMITTAL PROCESS, THE ELECTRICAL AND MECHANICAL CONTRACTOR(S) SHALL SUBMIT PROPOSED ROUTING PLAN FOR ALL PIPES, CONDUITS, OR OTHER DEVICES TO BE EMBEDDED IN THE CONCRETE. THE SUBMITTAL SHALL SHOW SPECIFIC SIZES AND LOCATIONS OF ALL PROPOSED EMBED ITEMS REFERENCING PROXIMITY TO BEAM, COLUMN, AND SLAB EDGES. NO ITEMS SHALL BE ALLOWED TO BE EMBEDDED IN THE CONCRETE WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
- CONCRETE AND PIPES EMBEDDED IN CONCRETE SLABS MAY BE NO LARGER THAN 1/3 OF THE SLAB THICKNESS (BASED ON THE MAXIMUM OUTSIDE DIAMETER) AND SHALL HAVE A CENTER-TO-CENTER SPACING NO LESS THAN THREE (3) CONDUIT DIAMETERS. REGARDLESS OF DIAMETER, THE MINIMUM CLEAR SPACING BETWEEN CONDUITS OR REINFORCING SHALL BE (1) INCH.
- NO MORE THAN FOUR CONDUITS MAY BE PLACED ADJACENT TO EACH OTHER WITHOUT PRIOR APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER OF RECORD.
- NO ALUMINUM CONDUITS, DEVICES, OR FIXTURES MAY BE EMBEDDED INTO THE CONCRETE SO THAT THE ALUMINUM IS IN DIRECT CONTACT WITH THE CONCRETE.
- CORNER BARS SHALL BE PROVIDED FOR ALL HORIZONTAL REINFORCING BARS AT THE INTERSECTIONS AND CORNERS OF ALL STRIP FOOTINGS, BEAMS, AND WALLS UNLESS NOTED OTHERWISE. CORNER BARS SHALL BE OF THE SAME SIZE AND GRADE AS THE HORIZONTAL REINFORCING THEY CONNECT. MINIMUM LAP LENGTHS SHALL BE AS INDICATED ABOVE UNLESS NOTED OTHERWISE.
- FOR EXTERIOR RETAINING WALLS AND BUILDING STEM WALLS EXPOSED TO VIEW ACROSS THE LENGTH OF WALL, PROVIDE FORMED "V" CONTROL JOINTS AT 15'-0" OC MAX.

LAP LENGTHS FOR SPLICES

BAR SIZE	TOP BARS**	OTHER
#3	1'-11"	1'-6"
#4	2'-6"	1'-11"
#5	3'-1"	2'-5"
#6	3'-8"	2'-10"
#7	5'-3"	4'-0"
#8	6'-0"	4'-7"
#9	6'-9"	5'-2"

REQUIRED CONCRETE STRENGTHS (28 DAY)

CONCRETE ELEMENT	F _c (PSI)
FOOTINGS, PIERS AND GRADE BEAMS	3,000
FOUNDATION WALL AND PEDESTALS	4,000
SLABS-ON-GRADE	3,500
SUSPENDED SLABS AND SLABS ON COMPOSITE DECK	3,000
STEEL STAIR PANS (SLABS ON NON-COMPOSITE DECK)	3,000

* BASED ON MINIMUM CONCRETE COVER OF 1 1/2", A MINIMUM CENTER-TO-CENTER BAR SPACING OF THREE BAR DIAMETERS, AND 3,000 PSI CONCRETE. CLASS A SPLICE VALUES SHOWN ASSUME CLEARANCE & SPACING REQUIREMENTS PER ACI 318.

** TOP BARS ARE HORIZONTAL BARS WITH MORE THAN (12) INCHES OF CONCRETE CAST BELOW BARS.

REINFORCEMENT MATERIALS				REINFORCEMENT COVER REQUIREMENTS	
REINFORCING ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	LOCATION	COVER (IN)
TYP REINFORCEMENT	A615	60	90	COLUMNS, GIRDERS, AND BEAMS	1 1/2
WELDED AND BENT REINF	A706	60	80	CONCRETE CAST AGAINST EARTH	3
WELDED WIRE REINFORCING, SMOOTH	A186	65	75	CONCRETE CAST IN FORMS, EXPOSED TO WEATHER OR EARTH	2
WELDED WIRE REINFORCING, DEFORMED	A497	70	80	CONCRETE CAST ON VOID FORMS WITH MASONITE OR PLYWOOD COVERING	2
				JOISTS	1 1/2
				SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1

DIVISION 4 - MASONRY

- CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C90, GRADE N TYPE 1 BLOCK WITH A MINIMUM UNIT COMPRESSIVE STRENGTH OF 1900 PSI. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY ASSEMBLY IS SHALL BE 1,500 PSI.
- MORTAR SHALL MEET ASTM SPECIFICATION C270 FOR TYPE "S" MORTAR.
- GROUT SHALL MEET ASTM SPECIFICATION C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI.
- GROUT PLACED BY THE LOW LIFT GROUTING METHOD SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4 INCH DIAMETER HEAD.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE (REFERENCE SPECIFICATION). JOINT REINFORCEMENT SHALL BE SPACED AT 8 INCHES ON CENTER BELOW FINISHED FLOOR AND IN PARAPETS, AND 16 INCHES ON CENTER ABOVE FINISHED FLOOR.
- CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND.
- CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL THE CELLS FULLY GROUTED. CONCRETE MASONRY ABOVE FINISHED FLOOR SHALL BE MEDIUM WEIGHT OR LIGHT WEIGHT AND IS TO BE GROUTED AT REINFORCED CELLS AND BOND BEAMS. ALL CELLS WITH REINFORCING SHALL BE GROUTED SOLID.
- REFER TO WALL SECTIONS AND DETAILS FOR MISCELLANEOUS BOND BEAM LOCATIONS AND EMBEDDED ITEMS. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE THROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS.
- REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A615, GRADE 60.
- ANCHORS INSTALLED IN GROUT FILLED CONCRETE MASONRY UNITS SHALL BE USED WHERE SPECIFIED ON THE DRAWINGS. ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS. USE HILTI HY-270 ADHESIVE ANCHORING SYSTEM OR HILTI KWIK BOLT 3 EXPANSION ANCHOR. REFERENCE DETAILS FOR ANCHOR SIZE AND EMBEDMENT. SUBSTITUTIONS TO THE SPECIFIED ANCHORS MUST BE APPROVED BY THE ENGINEER OF RECORD.
- CONSTRUCTION BRACING FOR MASONRY WALLS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

BRICK LINTEL SCHEDULE

TYPE	CLEAR SPANS (S)	ANGLE SIZE	BEARING (EACH END)
A	S ≤ 4'-0"	L4x4x3/8	8"
B	4'-0" < S ≤ 7'-0"	L6x4x3/8 (LLV)	8"
C	7'-0" < S ≤ 10'-0"	L8x4x1/2 (LLV)	16"

DIVISION 5 - STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTHS (F_y):

	YIELD	ASTM SPECIFICATION
A. WIDE FLANGE SHAPES -----	50 KSI	A992
B. OTHER SHAPES, BARS, PLATES AND RODS -----	36 KSI	A36
C. SQUARE AND RECTANGULAR HSS -----	46 KSI	A500, GRADE B
D. ROUND HSS -----	42 KSI	A500, GRADE A
E. STRUCTURAL STEEL PIPE -----	35 KSI	A53, TYPE E, GRADE B
F. ANCHOR RODS -----	55 KSI	F1554
G. ALL-THREAD RODS -----	36 KSI	A36
H. HEADED STUD ANCHORS -----	65 KSI (TENSILE)	A108 (GRADE DESIGNATIONS 1010-1020 INCLUSIVE)
- BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4" DIAMETER ASTM A325 HIGH-STRENGTH BOLTS INSTALLED SNUG TIGHT, UNO.
- WHERE FIELD AND SHOP WELDS ARE INDICATED ON THE DRAWINGS, THEY SHALL BE THE SIZE AND TYPE NOTED. ALL WELDING OF STRUCTURAL STEEL SHALL BE DONE IN ACCORDANCE WITH LATEST EDITION OF AWS D1.1 CORRESPONDING TO THE AISC SPECIFICATION USED, AND ALL WELDS INCLUDING FIELD WELDS SHALL BE MADE BY CERTIFIED WELDERS USING E70XX ELECTRODES.
- WHERE FILLED WELD SIZES ARE NOT INDICATED ON WELD SYMBOLS, FILLET SIZE SHALL BE 1/16TH INCH SMALLER THAN THICKNESS OF THINNER MATERIALS BEING JOINED.
- COMPLETE PENETRATION WELDS ARE INDICATED BY NOTATION "CP" ON WELD SYMBOLS. PARTIAL PENETRATION BY "PP".
- PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.
- COMPOSITE CONSTRUCTION STEEL BEAMS AND GIRDERS DO NOT REQUIRE SHORING.
- STEEL CONNECTORS FOR COMPOSITE BEAMS AND GIRDERS SHALL BE 3/4" DIA. X 4 1/2" AND SHALL BE WELDED THROUGH METAL DECK DIRECTLY TO THE STEEL MEMBER.
- STUD SPACING ON COMPOSITE BEAMS AND GIRDERS SHALL NOT BE LESS THAN 4 1/2" ALONG THE LENGTH OF ANY MEMBER AND SHALL NOT EXCEED 32". MINIMUM STUD SPACING ACROSS THE WIDTH OF ANY FLANGE SHALL NOT BE LESS THAN 3".
- DO NOT PAINT SURFACES WHICH RECEIVE WELDED STUDS.
- EXPOSED STEEL LABELED AS ARCHITECTURALLY EXPOSED STEEL REQUIRES HIGHER TOLERANCES FOR CONSTRUCTION. REFER TO SPECIFICATIONS SECTION 051200 FOR REQUIREMENTS. FLARE BEVEL WELDS FOR ARCHITECTURALLY EXPOSED TUBE SHAPED SECTIONS SHALL BE BEVELED 45 DEGREES, WELDED AND GRINDED SMOOTH.
- ALL STEEL MEMBERS NOTED OR INDICATED ON PLANS, ELEVATIONS, SECTIONS OR DETAILS SHALL BE SHOP ROLLED BY THE STEEL FABRICATOR. SHOP DRAWINGS SHALL INDICATED CURVATURE DATA AND FULL PENETRATION SPLICE LOCATIONS.
- REFERENCE SPECIFICATIONS FOR MISC. STEEL REQUIREMENTS NOT SHOWN ON STRUCTURAL PLANS.
- TOUCH UP ALL FIELD WELDS ON GALVANIZED SURFACES WITH GALVANIZING REPAIR PAINT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID, REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE, BUT NOT LIMITED TO, MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- UNLESS DETAILED OTHERWISE OR REACTIONS ARE INDICATED, BEAM CONNECTIONS SHALL BE SELECTED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE "ALLOWABLE UNIFORM LOAD TABLES" IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND STEEL SPECIFICATION OR FOR THE BEAM REACTION SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER. THE MINIMUM BEAM CONNECTION SHALL NOT BE SMALLER THAN THOSE LISTED IN TABLES 10-1 AND 10-2 OF THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, FOR THE GIVEN BEAM DEPTH, BOLT DIAMETER AND WELD SPECIFICATION.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS, DEPICTING THE CONFIGURATIONS AND FABRICATION DETAILS, ALONG WITH CALCULATIONS, SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED; SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
- UNLESS OTHERWISE INDICATED, BEAM REACTIONS SHOWN ON THE PLANS ARE DESIGN SERVICE LEVEL (ASD) GRAVITY (DEAD LOAD PLUS LIVE LOAD) SHEAR LOADS. ANY AXIAL OR OTHER LOADS REQUIRED MUST BE CONSIDERED IN ADDITION TO THE VERTICAL REACTIONS SHOWN.
- THE MINIMUM DESIGN LOAD FOR ANY CONNECTION SHALL BE 6 KIPS (ASD) OR 10 KIPS (LRFD), REGARDLESS OF THE BEAM REACTION(S) SHOWN ON THE PLANS.
- STEEL FRAMES ARE NON SELF-SUPPORTING AND COLUMN ANCHOR RODS ARE DESIGNED FOR A COMPLETED CONDITION ONLY. METAL ROOF DECK, BEAM-TO-COLUMN MOMENT CONNECTIONS, PORTAL FRAMES, AND DIAGONAL BRACES ARE REQUIRED TO PROVIDE LATERAL STABILITY FOR THE FRAME AND BUILDING. THIS INCLUDES RESISTANCE TO WIND AND SEISMIC FORCES DURING AND AFTER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY UNTIL THE LATERAL FORCE RESISTING SYSTEM FOR THE BUILDING IS COMPLETE.
- STAIR SUPPLIER TO PROVIDE POST-HANGER SUPPORTS AT INTERMEDIATE LANDINGS AS REQUIRED. POST-HANGERS ARE TO CONCENTRICALLY LOAD BEAMS.
- AT ROOF ACCESS LADDERS, PROVIDE (2) OXK10.2 VERTICALS IN STUD WALL. SEE ARCH FOR LOCATIONS.
- FIELD CUTTING, DRILLING OR OTHER MODIFICATION OF STRUCTURAL STEEL COMPONENTS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. WHERE BEAM PENETRATIONS CANNOT BE AVOIDED OR WHERE CUTTING IS REQUIRED, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD ALL PERTINENT INFORMATION INCLUDING PENETRATION SHAPE, SIZE, LOCATION AND METHOD OF CUTTING OPERATIONS.
- ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE GALVANIZED OR PAINTED WITH TNECME EPOXY SYSTEM OR SIMILAR SYSTEM MEETING THE REQUIREMENT FOR PAINTING STRUCTURAL STEEL IN THE PROJECT SPECIFICATIONS. ALL OTHER STEEL MEMBERS SHALL BE FURNISHED WITH A SHOP COAT OF TNECME ROD OR GRAY OXIDE PRIMER OR SIMILAR SYSTEM MEETING THE REQUIREMENT FOR PAINTING STRUCTURAL STEEL IN THE PROJECT SPECIFICATIONS. ALL PRIMERS SHALL BE COMPATIBLE WITH TOP COATINGS SPECIFIED.

DIVISION 5 - JOISTS

- STEEL JOISTS SHALL BE AS INDICATED ON THE PLANS AND SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI) AND MEET THE FOLLOWING:
 - JOISTS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY (AS SPECIFIED IN THE SJI STANDARD LOAD TABLES) IN ADDITION TO THE CONCENTRATED LOADS SHOWN ON PLANS AND DETAILS.
 - JOISTS THAT SUPPORT CONCENTRATED LOADS SHALL HAVE THEIR CHORDS DESIGNED TO WITHSTAND ALL BENDING STRESSES, OR THE LOADS SHALL OCCUR WITHIN 3 INCHES OF JOIST PANEL POINTS, OR THE JOIST SHALL BE REINFORCED PER THE "JOIST REINFORCING DETAIL" SHOWN HEREIN. CONCENTRATED LOADS SHALL BE CENTERED ON JOISTS AND NOT ATTACHED TO THE EDGE OF CHORD ANGLES.
 - JOISTS SHALL RESIST THE NET UPLIFT PRESSURE AS INDICATED ON THE "ROOF (NET UPLIFT)" SECTION OF THE DESIGN PARAMETERS FOR "DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING". THIS PRESSURE SHALL ACT ALONE. AN ALLOWABLE STRESS INCREASE IS NOT PERMITTED.
 - FOR ALL MEMBERS THAT REQUIRE SPECIFIC ORIENTATION, PROVIDE TAG AT ONE END AND DEFINE LOCATION OF TAGGED END ON ERECTION DRAWINGS.
 - JOIST MANUFACTURER SHALL DETERMINE THE SEAT DEPTH AND WIDTH OF BEARING AND COORDINATE THE SAME WITH THE STEEL FABRICATOR. THE FOLLOWING SEAT DEPTHS ARE ASSUMED ON THE DRAWINGS: 2 1/2 INCH FOR K-SERIES JOISTS, 5 INCH FOR LH AND DLH SERIES JOISTS, 7 1/2 INCH FOR JOIST GIRDERS.
- K-SERIES JOISTS SHALL BE WELDED TO SUPPORTING STEEL WITH MINIMUM 1/8 INCH FILLET WELDS 2 INCHES LONG EACH SIDE OR WITH TWO 1/2 INCH DIAMETER ASTM A307 BOLTS OR THE EQUIVALENT, UNLESS NOTED OTHERWISE. WHEN NEAR OR AT A COLUMN, BOLT JOIST TO SUPPORTING STEEL IN CONFORMANCE WITH OSHA.
- LH AND DLH-SERIES JOISTS SHALL BE WELDED TO SUPPORTING STEEL WITH MINIMUM 1/4 INCH FILLET WELDS 2 INCHES LONG EACH SIDE OR WITH TWO 3/4 INCH DIAMETER ASTM A307 BOLTS OR THE EQUIVALENT, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
- JOIST BRIDGING AND ERECTION STABILITY SHALL BE PROVIDED IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HAZARD ADMINISTRATION (OSHA) AND THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
- JOIST RTU LOADS ARE PROVIDED ON THE ROOF FRAMING PLAN. REFERENCE PLANS AND DETAILS FOR LOAD LOCATIONS, VALUES AND SUPPORT FRAMING.
- JOIST MANUFACTURER SHALL DESIGN THE COMPRESSION CHORD OF ALL JOISTS SUPPORTING ROOF TOP UNITS, SKY LIGHTS, AND OTHER STRUCTURES FOR AN UNBRACED LENGTH APPLICABLE TO THE CONDITIONS AT THE PROJECT WHERE THE UNBRACED LENGTH IS GREATER THAN THE SJI MAXIMUM. (REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS).
- DESIGN JOISTS FOR INTERNAL ROOF DRAINLINE LOCATIONS, IF REQUIRED. ADD 50 PLF FOR 8 INCH DIAMETER AND SMALLER, ADD 75 PLF FOR 10 INCH DIAMETER, ADD 102 PLF FOR 12 INCH DIAMETER, ADD 122 PLF FOR 14 INCH DIAMETER, ADD 200 PLF FOR 18 INCH DIAMETER. REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATION.
- JOIST DESIGNS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE JOIST MANUFACTURER.
- SHOP DRAWING SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO JOIST FABRICATION.

DIVISION 5 - STEEL DECK

- DECK DESIGN IS IN ACCORDANCE WITH STEEL DECK INSTITUTE (SDI) PUBLICATION NO. 31 AND DIAPHRAGM DESIGN MANUAL, LATEST EDITIONS. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDED PRACTICES IN THE SDI MANUAL.
- WHERE DECK RIBS ARE CUT AT PENETRATIONS, PROVIDE DECK SUPPORT ANGLES OR DECK STIFFENERS AS REQUIRED. REINFORCE OPENINGS IN METAL DECK AND FLOOR DECK IN ACCORDANCE WITH TYPICAL DECK OPENING DETAILS.
- THE DECKING SPECIFIED ON THIS PROJECT ASSUMES A 3-SPAN CONDITION, UNO. THE CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK, AS REQUIRED, FOR DECK SPAN LENGTHS TO MEET EQUIVALENT LOAD CAPACITY OF THE SPECIFIED DECK, UNDER A 3-SPAN CONDITION. PROVIDE A 2" MINIMUM BEARING AND A 4" LAP AT THE SPLICE POINT OF ALL PIECES OF DECK.
- PROVIDE DECK ATTACHMENTS AS NOTED ON DRAWINGS. ALTERNATE FASTENING OPTIONS USING MECHANICAL FASTENERS, POWDER-ACTUATED OR SCREWS, MAY BE CONSIDERED IF SUBMITTED BY THE CONTRACTOR. ALTERNATE SYSTEMS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE, AND DOCUMENTATION CERTIFYING THAT THE PROPOSED SYSTEM PROVIDES AT LEAST THE SAME UPLIFT AND DIAPHRAGM SHEAR RESISTANCE AS THE SYSTEM AND PATTERN SPECIFIED.
- FOR COMPOSITE DECK, SHEAR STUDS, WELDED THROUGH THE DECK, MAY BE COUNTED AS PART OF THE REQUIRED DECK ATTACHMENT PATTERN.
- HANGING ANY LOADS DIRECTLY FROM STEEL ROOF DECK SHALL BE AVOIDED WHENEVER POSSIBLE. NEVERTHELESS, NORMAL SUSPENDED ACOUSTICAL CEILINGS WITH A TOTAL WEIGHT PER WIRE NOTE EXCEEDING 50 POUNDS MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHERE HANGING LOADS FROM THE DECK CANNOT BE AVOIDED. THE ATTACHMENT SHOULD BE STAGGERED, IF POSSIBLE, TO FURTHER DISTRIBUTE THE LOAD. DECK SHOULD BE PROVIDED WITH TABS OR OTHER BUILT-IN DEVICES FOR HANGING REFERENCED LOADS IF LOADS ARE DIRECTLY SUPPORTED BY THE DECK.
- WHERE METAL DECK IS PART OF A RATED ASSEMBLY, SUPPLY ALL DECK AND COMPONENTS WHICH COMPLY WITH REQUIREMENTS OF UNDERWRITERS LABORATORY FOR EACH TYPE OF ASSEMBLY SPECIFIED. RE. PLANS AND SPECIFICATIONS. WHERE DECK IS TO RECEIVE SPRAY FIREPROOFING, FINISHES SHALL BE COMPATIBLE WITH FIREPROOFING MATERIAL AND COMPLY WITH U.L. ASSEMBLY REQUIREMENTS. BEFORE THE FIREPROOFING MATERIAL IS APPLIED, THE DECK SURFACE TO BE TREATED SHALL BE FREE OF RUST, SCALE, OIL OR OTHER CONTAMINANTS AND ELEMENTS WHICH WILL IMPAIR BOND.
- SUPPLY 8" WIDE, MINIMUM, PLATES MATCHING DECK GAUGE OR HEAVIER FOR ALL RIDGE, VALLEY, AND CHANGE IN DECK DIRECTION LOCATIONS WHICH DO NOT FALL OVER A SUPPORTING MEMBER AT LEAST 4" WIDE.
- PLACING CONDUIT IN SLAB ON METAL DECK IS NOT PERMITTED.

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6/19/20

Folds of Honor Operations Building

5917 Patriot Drive, Owasso, OK 74055

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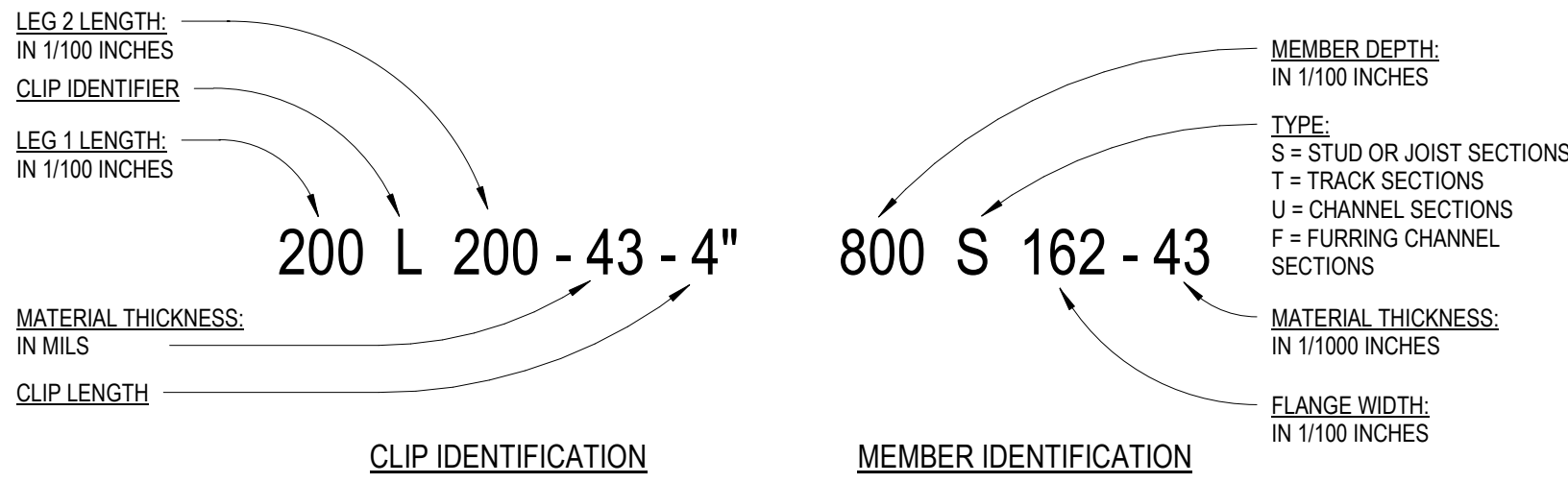
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DIVISION 5 - COLD-FORMED METAL FRAMING

- ALL METAL STUDS, JOISTS AND TRACK SHALL MEET THE FOLLOWING MINIMUM GROSS STRUCTURAL PROPERTIES BASED ON SSMA (ER #4943P) SECTIONS. YIELD STRENGTH SHALL BE AS FOLLOWS: 33 KSI FOR 18 GAGE AND LIGHTER, 50 KSI FOR 16 GAGE AND HEAVIER.
- DO NOT WELD 20 GAGE AND LIGHTER FRAMING, UNLESS SPECIFICALLY CALLED FOR IN PLANS AND DETAILS.
- MINIMUM WIDTH OF THE STUDS SHALL BE 1 5/8", AND THE LIP OF THE "C" PORTION SHALL BE A MINIMUM OF 1/2".
- STUD TRACK SHALL BE 18 GA. MINIMUM FOR WALL STUDS 18 GA. OR LIGHTER. STUD TRACK SHALL MATCH WALL STUD GAGE FOR WALL STUDS 16 GA. AND HEAVIER. TRACKS SHALL BE ANCHORED AS FOLLOWS UNO:
 - TO STEEL - HILTI X-S16 P8TH, 0.145" DIA. PAF AT 16" OC.
 - TO CONCRETE - HILTI X-U, 0.157" DIA PAF AT 16" OC WITH 1 1/4" EMBEDMENT.
- STEEL STUDS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. HORIZONTAL BRIDGING SHALL BE PLACED AT 4'-0" OC, OR AS PER MANUFACTURER'S RECOMMENDATION IF LESS THAN 4'-0" OC.
- ALL AXIALLY LOADED STUDS SHALL HAVE FULL FLANGE BEARING AGAINST UPPER AND LOWER TRACK WEB PRIOR TO ATTACHMENT TO TRACK. SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
- PROVIDE FULL DEPTH BLOCKING BETWEEN JOISTS AT SUPPORTS WHERE JOISTS ARE NOT OTHERWISE RESTRAINED FROM ROTATION, AND AS INDICATED IN THE SECTIONS.
- JOISTS SHALL BE PLACED DIRECTLY OVER BEARING STUDS AND JOIST WEB STIFFENERS SHALL BE PROVIDED AT ALL REACTION POINTS AND AS OTHERWISE SHOWN ON THE DRAWINGS.
- JOIST BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. JOIST BRIDGING SHALL BE INSTALLED AT 8'-0" OC MAXIMUM. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING, UNLESS NOTED OTHERWISE.
- CONNECTIONS OF COLD-FORMED METAL FRAMING SHALL CONFORM TO THE FOLLOWING:
 - ALL WELDED CONNECTIONS TO BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF AWS D1.3 "SPECIFICATIONS FOR WELDING SHEET STEEL STRUCTURES". CONSULT AWS D19.0 "WELDING ZINC COATED STEEL," & ANSI STANDARD Z49.1 FOR INFORMATION REGARDING SAFE WELDING PROCEDURES. WELDERS SHALL BE CERTIFIED FOR SHEET STEEL IN ALL POSITIONS REQUIRED PER AWS D1.3.
 - ALL WELDS ARE TO BE TOUCHED-UP WITH A RUST INHIBITIVE GALVANIZING PAINT.
 - SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE: 60 KSI WELD METAL STRENGTH (MINIMUM) - MIG. SUGGESTED METHODS FOR FIELD WELDING: 1/8 INCH E60XX (MINIMUM) ELECTRODE - SMAW; OR "GASLESS" MIG. MINIMUM WELD THROAT THICKNESS (T) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART (U.N.O.)
 - ALL SCREWS SHALL BE OF THE DIAMETER AND SIZE INDICATED ON THE DRAWINGS AND SHALL BE THOSE MANUFACTURED AND TESTED BY GRABBER, ITW BULDEX, OR APPROVED EQUIVALENT. A MINIMUM OF (1.5 x) SCREW DIAMETER EDGE DISTANCE AND (3 x) SCREW DIAMETER SPACING IS REQUIRED (U.N.O.)
 - SELECT SCREW WITH AN ADEQUATE CUTTING TIP TO ACCOMMODATE THE TOTAL THICKNESS TO BE DRILLED. DRILLING MUST BE COMPLETED BEFORE THE THREADS ENGAGE THE MATERIAL.
 - CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED BY THE CONTRACTOR PER THE SPECIFICATION.
- TORCH CUTTING OF COLD-FORMED METAL FRAMING MEMBERS IS NOT PERMITTED.
- ROOF AND FLOOR JOISTS MUST ALIGN DIRECTLY OVER STUDS (U.N.O.)
- PER AISI S200, THE MAXIMUM ALLOWABLE GAP (MEASURED BETWEEN THE WEB OF THE STUD AND THE WEB OF THE TRACK) FOR A STUD SEATED IN A TRACK IS 1/4" FOR NON-AXIAL LOAD BEARING CONDITIONS AND 1/8" FOR AXIALLY LOAD BEARING CONDITIONS (U.N.O.). PRESSURE SHALL BE APPLIED TO NEST STUDS INTO THE TRACKS UNTIL THESE TOLERANCES ARE ACHIEVED.
- PRODUCT IDENTIFICATION:
 - THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS ARE USED IN THESE DOCUMENTS. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEET OR EXCEED AISI STANDARDS ARE ACCEPTABLE.
 - IDENTIFICATION:



MINIMUM THICKNESS				
GAUGE	DESIGN	MINIMUM	AISI	COLOR
20	0.0346"	0.0329"	33 MILS	WHITE
18	0.0451"	0.0428"	43 MILS	YELLOW
16	0.0566"	0.0538"	54 MILS	GREEN
14	0.0713"	0.0677"	68 MILS	ORANGE
12	0.1017"	0.0966"	97 MILS	RED

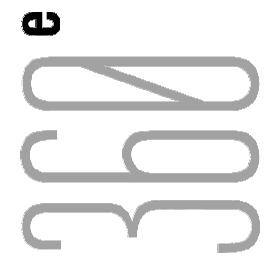
SUBMITTALS

- TRANSMIT SUBMITTALS SUFFICIENTLY IN ADVANCE OF RELATED CONSTRUCTION ACTIVITIES TO AVOID UNNECESSARY DELAY. THE STRUCTURAL ENGINEER OF RECORD MAY WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION WITH OTHER SUBMITTALS UNTIL ALL RELATED SUBMITTALS ARE RECEIVED.
- THE GENERAL CONTRACTOR SHALL SUBMIT ONE ELECTRONIC PORTABLE DOCUMENT FORMAT (PDF) COPY OF ALL REQUIRED SUBMITTALS THROUGH THE ARCHITECT FOR REVIEW. THE ELECTRONIC COPY WILL BE MARKED UP BY THE STRUCTURAL ENGINEER OF RECORD. ONE COPY WILL BE KEPT BY THE STRUCTURAL ENGINEER OF RECORD AND AN ADDITIONAL COPY WILL BE RETURNED TO THE ARCHITECT. THE ARCHITECT WILL KEEP ONE COPY AND RETURN A COPY TO THE CONTRACTOR. THE CONTRACTOR WILL MAKE ADDITIONAL COPIES AS REQUIRED.
- THE GENERAL CONTRACTOR SHALL SUBMIT, FOR ENGINEER REVIEW, SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
 - COLD-FORMED STEEL FRAMING: EXTERIOR WALL FRAMING AND ATTACHMENTS TO STRUCTURE (1, 4)
 - COLD-FORMED STEEL TRUSSES AND ATTACHMENTS TO STRUCTURE (1,4)
 - COMPOSITE STEEL DECK
 - CONCRETE MIX DESIGNS (3)
 - CONSTRUCTION JOINT LOCATIONS IN STRUCTURAL FLOORS, WALLS AND SLABS-ON-GRADE.
 - STOREFRONT AND CURTAINWALL FRAMING, ACCESSORIES, AND ATTACHMENTS TO STRUCTURE (1, 2)
 - EXTERIOR WINDOW WALL SYSTEMS (1,2)
 - METAL ROOF DECK
 - MISCELLANEOUS STEEL
 - REINFORCING STEEL
 - STRUCTURAL STEEL: SHOP AND ERECTION DRAWINGS (1)
 - STRUCTURAL STEEL CONNECTIONS OF FRAMING AND BRACING ELEMENTS (1, 4)
 - STEEL: SELF-SUPPORTING STAIRS (1, 4)
- ALL SHOP DRAWINGS MUST BE REVIEWED AND ELECTRONICALLY STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

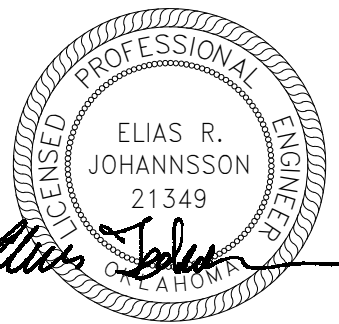
DIVISION 5 - COLD-FORMED STEEL TRUSSES

- DESIGNS SHALL MEET THE REQUIREMENTS OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100) AND THE NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN (AISI S214). AISI EDITIONS ARE TO THE AS REFERENCED IN APPLICABLE BUILDING CODE.
- SEE DESIGN PARAMETERS FOR LOADING AND PERFORMANCE REQUIREMENTS OF COLD-FORMED STEEL TRUSSES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS NOT NOTED.
- ALL COLD-FORMED STEEL TRUSS COMPONENTS SHALL BE GALVANIZED. TOP AND BOTTOM CHORD MEMBERS TO HAVE A MINIMUM THICKNESS OF 33 MILS.
- EXACT TRUSS WEB AND CHORD SIZES (SEE ABOVE FOR MINIMUMS) AND LAYOUTS ARE TO BE DETERMINED BY THE MANUFACTURER. TRUSS MANUFACTURER TO DESIGN AND FURNISH ALL TEMPORARY AND PERMANENT TRUSS BRACING REQUIRED FOR STABILITY UNDER THE IMPOSED WIND AND SEISMIC FORCES PER THE DESIGN PARAMETERS IN THESE GENERAL NOTES AS WELL AS LOADING CONDITIONS DURING CONSTRUCTION.
- ALL PERMANENT BRACING REQUIRED AT TOP AND BOTTOM CHORDS, VERTICALS AND DIAGONALS SHALL BE CLEARLY DETAILED ON THE SHOP DRAWINGS AND SHALL BE INSTALLED BY THE CONTRACTOR AS DETAILED. THE CONTRACTOR SHALL TAKE GREAT CARE IN ERECTION OF TRUSSES AND SHALL PROVIDE SUFFICIENT TEMPORARY BRACING TO PREVENT COLLAPSE DURING ERECTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONNECTED IN PLACE.
- THE TRUSS MANUFACTURER SHALL SUBMIT CALCULATIONS AND DETAILED SHOP DRAWINGS FOR ALL TRUSSES TO ARCHITECT FOR REVIEW BEFORE FABRICATION IS BEGUN. CALCULATIONS AND SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED. SHOP DRAWINGS SHALL CLEARLY INDICATE MEMBER SIZES, THICKNESS OF MATERIAL, MEMBER DESIGN FORCES, AND MEMBER END CONNECTION DETAILS AND LENGTHS.
- THE TRUSS MANUFACTURER SHALL DESIGN TRUSSES TO MEET THE OUTLINE DIMENSION(S) SHOWN ON THE DRAWINGS AND THE DESIGN LOADS NOTED. WEB MEMBERS SHALL BE DESIGNED AND CONFIGURED TO COORDINATE WITH THE MINIMUM REQUIRED OPENINGS FOR AIR DUCTS AND OTHER EQUIPMENT SHOWN ON THE MECHANICAL DRAWINGS. ALSO COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS, LAYOUTS, CONFIGURATIONS, CLEAR ATTIC SPACE, OR OTHER INFORMATION NO SHOWN ON THE STRUCTURAL DRAWINGS.
- TRUSS ACCESSORIES:
 - TRUSS MANUFACTURER TO DESIGN AND SUPPLY ALL CONNECTIONS FROM TRUSS TO SUPERSTRUCTURE BELOW.
 - BLOCKING TRUSSES ARE REQUIRED TO TRANSFER DIAPHRAGM LOADS TO LATERAL FORCE RESISTING ELEMENTS PERPENDICULAR TO SPAN DIRECTION OF PRIMARY TRUSSES. SEE PLANS FOR BLOCKING TRUSS LOCATIONS AND LOADS.
 - DRAG TRUSSES ARE REQUIRED TO TRANSFER DIAPHRAGM LOADS TO LATERAL FORCE RESISTING ELEMENTS PARALLEL TO SPAN DIRECTION OF PRIMARY TRUSSES. SEE PLANS FOR DRAG TRUSS LOCATIONS AND LOADS.
 - MINIMUM ROOF LOADING TO BE IN ACCORDANCE WITH APPLICABLE BUILDING CODE, BUT NOT LESS THAN THE FOLLOWING:
 - TOP CHORD LIVE LOAD.....20 PSF
 - TOP CHORD NET WIND UPLIFT.....PER COMPONENTS AND CLADDING TABLE
 - TOP CHORD DEAD LOAD.....5 PSF
 - TRUSS SELF-WEIGHT DEAD LOAD.....PER TRUSS MANUFACTURER
 - BOTTOM CHORD DEAD LOAD.....5 PSF
 - BOTTOM CHORD LIVE LOAD.....5 PSF (NOT TO BE INCLUDED IN SAME LOAD CASE WITH TOP CHORD LIVE LOAD)
 - IN ADDITION, THE TRUSS DESIGNER SHALL ALLOW FOR ALL OTHER DEAD LOADS INDICATED, NOTED, OR DETAILED ON THE PLANS, INCLUDING THE WEIGHT OF VALLEY TRUSS SETS OR OTHER RAISED FRAMING.

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Certificate of Authorization:
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6/19/20

Folds of Honor Operations Building

5917 Patriot Drive, Owasso, OK 74055

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SHEET NUMBER:
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GENERAL NOTES

SPECIAL INSPECTIONS

1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO SECTION 1705 OF IBC 2015. THE APPROVED SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE OWNER, THE BUILDING OFFICIAL, THE ARCHITECT, THE STRUCTURAL ENGINEER OF RECORD, AND TO THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL BRING NON-CONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND NOTE ALL SUCH ITEMS IN THE REPORTS. ANY UNRESOLVED ITEM ABOUT THE COVERED WORK SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER AS WELL AS THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER OR NOT THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTION AGENCY REGARDING INDIVIDUAL INSPECTIONS FOR ITEMS LISTED ON THE SCHEDULE AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
2. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
3. IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS AND TESTING:

SPECIAL INSPECTION AND VERIFICATION OF SOILS REFERENCE IBC 2015, TABLE 1705.6			
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	--	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--	
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X	

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION REFERENCE IBC 2015, TABLE 1705.3			
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	--	X	
REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" C. INSPECT ALL OTHER WELDS	-- -- X	X X --	
INSPECT ANCHORS CAST IN CONCRETE	X	--	
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN A	X --	-- X	
VERIFY USE OF REQUIRED DESIGN MIX.	--	X	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	--	
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	--	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	--	X	
INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES B. GROUTING OF BONDED PRESTRESSING TENDONS	X X	-- --	
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	--	X	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	--	X	
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X	

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION PRIOR TO WELDING REFERENCE AISC 360-10, TABLE N5.4-1			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	--	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	--	
MATERIAL IDENTIFICATION (TYPE/GRADE)	--	X	
WELDER IDENTIFICATION SYSTEM	--	X	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) A. JOINT PREPARATION B. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) C. CLEANLINESS (CONDITION OF STEEL SURFACES) D. TACKING (TACK WELD QUALITY AND LOCATION) E. BACKING TYPE AND FIT (IF APPLICABLE)	--	X	
CONFIGURATION AND FINISH OF ACCESS HOLES	--	X	
FIT-UP OF FILLET WELDS A. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) B. CLEANLINESS (CONDITION OF STEEL SURFACES) C. TACKING (TACK WELD QUALITY AND LOCATION)	--	X	
CHECK WELDING EQUIPMENT	--	X	

SPECIAL INSPECTIONS CONTINUED

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION DURING WELDING REFERENCE AISC 360-10, TABLE N5.4-2			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
USE OF QUALIFIED WELDERS	--	X	
CONTROL AND HANDLING OF WELDING CONSUMABLES A. PACKAGING B. EXPOSURE CONTROL	--	X	
NO WELDING OVER CRACKED TACK WELDS	--	X	
ENVIRONMENTAL CONDITIONS A. WIND SPEED WITHIN LIMITS B. PRECIPITATION AND TEMPERATURE	--	X	
WPS FOLLOWED A. SETTINGS ON WELDING EQUIPMENT B. TRAVEL SPEED C. SELECTED WELDING MATERIALS D. SHIELDING GAS TYPE/FLOW RATE E. PREHEAT APPLIED F. INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) G. PROPER POSITION	--	X	
FIT-UP OF FILLET WELDS A. INTERPASS AND FINAL CLEANING B. EACH PASS WITHIN PROFILE LIMITATIONS C. EACH PASS MEETS QUALITY REQUIREMENTS	--	X	

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION AFTER WELDING REFERENCE AISC 360-10, TABLE N5.4-3			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
WELDS CLEANED	--	X	
SIZE, LENGTH AND LOCATION OF WELDS	X	--	
WELDS MEET VISUAL ACCEPTANCE CRITERIA A. CRACK PROHIBITION B. WELD/BASE-METAL FUSION C. CRATER CROSS SECTION D. WELD PROFILES E. WELD SIZE F. UNDERCUT G. POROSITY	X	--	
ARC STRIKES	X	--	
K-AREA ¹	X	--	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	--	
REPAIR ACTIVITIES	X	--	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	--	

1. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD.

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION PRIOR TO BOLTING REFERENCE AISC 360-10, TABLE N5.6-1			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	--	
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	--	X	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	--	X	
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	--	X	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	--	X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	--	X	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	--	X	

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION DURING BOLTING REFERENCE AISC 360-10, TABLE N5.6-2			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	--	X	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	--	X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	--	X	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID TOWARD THE FREE EDGES	--	X	

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION AFTER BOLTING REFERENCE AISC 360-10, TABLE N5.6-3			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
DURING ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	--	

SPECIAL INSPECTIONS CONTINUED

SPECIAL INSPECTION AND VERIFICATION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT REFERENCE AISC 360-10, TABLE N6.1			
VERIFICATION AND INSPECTION TASK	PERFORM	OBSERVE	
PLACEMENT AND INSTALLATION OR STEEL DECK	X	--	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	--	
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X	--	

SPECIAL INSPECTION AND VERIFICATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS REFERENCE IBC 2015, TABLE 1705.2.3			
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS A. END CONNECTIONS - WELDING OR BOLTED B. BRIDGINGS - HORIZONTAL OR DIAGONAL	-- --	X X	
STANDARD BRIDGING	--	X	
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	--	X	

LEVEL B SPECIAL INSPECTION AND VERIFICATION OF MASONRY CONSTRUCTION REFERENCE TMS 402-13, TABLE 3.1.2			
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	
VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5B.1.b.3 FOR SELF-CONSOLIDATING GROUT.	--	X	
VERIFICATION OF f _m AND f _{mcc} PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY TMS 402-13.	--	X	
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	--	X	
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR B. CONSTRUCTION OF MORTAR JOINTS C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES E. PRESTRESSING TECHNIQUE F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	-- -- -- -- -- X ¹	X X X X X X ²	
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. GROUT SPACE B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS E. CONSTRUCTION OF MORTAR JOINTS	-- -- -- -- --	X X X X X	
VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION C. WELDING OF REINFORCEMENT D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	-- -- X -- X X ¹	X X -- X -- X ²	
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	--	X	

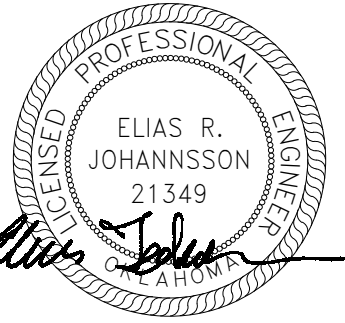
1. REQUIRED FOR THE FIRST 5000 SQUARE FEET OF AAC MASONRY.
2. REQUIRED AFTER THE FIRST 5000 SQUARE FEET OF AAC MASONRY.

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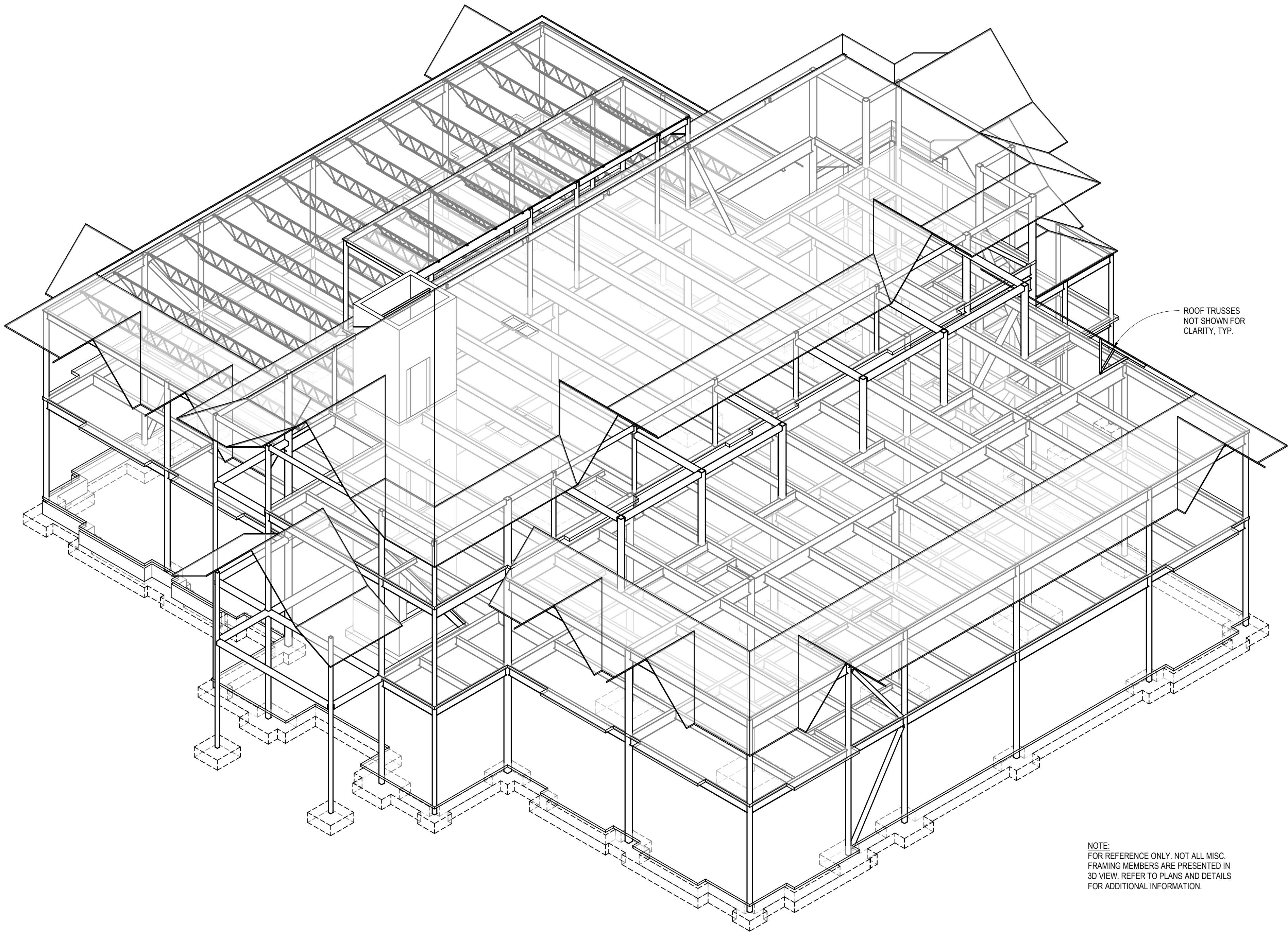
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NOTE:
FOR REFERENCE ONLY. NOT ALL MISC.
FRAMING MEMBERS ARE PRESENTED IN
3D VIEW. REFER TO PLANS AND DETAILS
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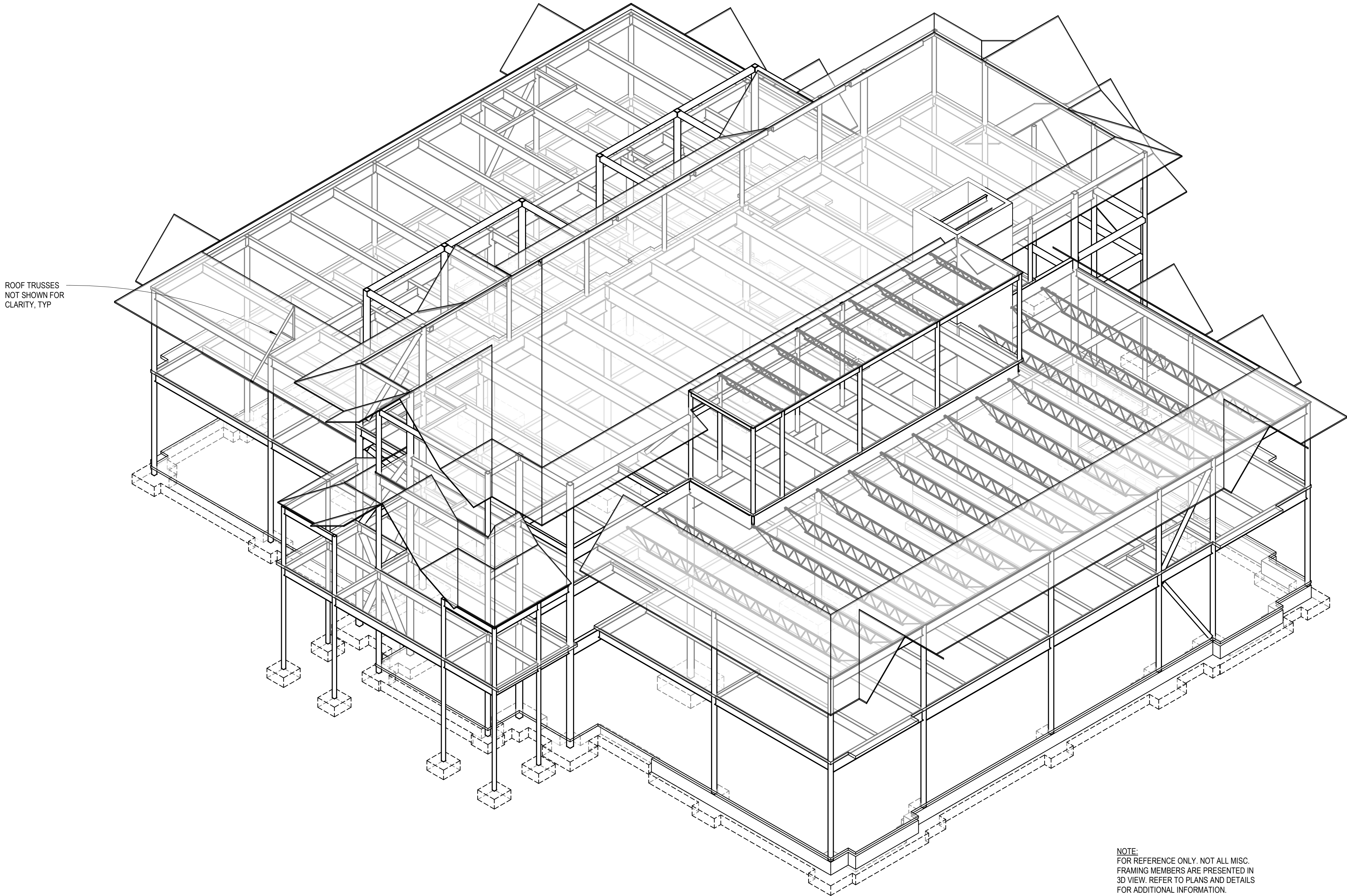
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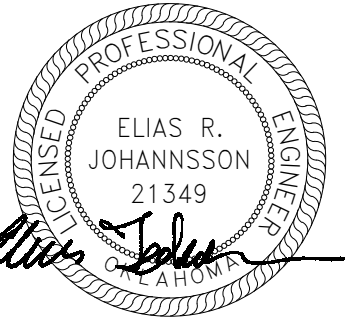
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1 3D VIEWS

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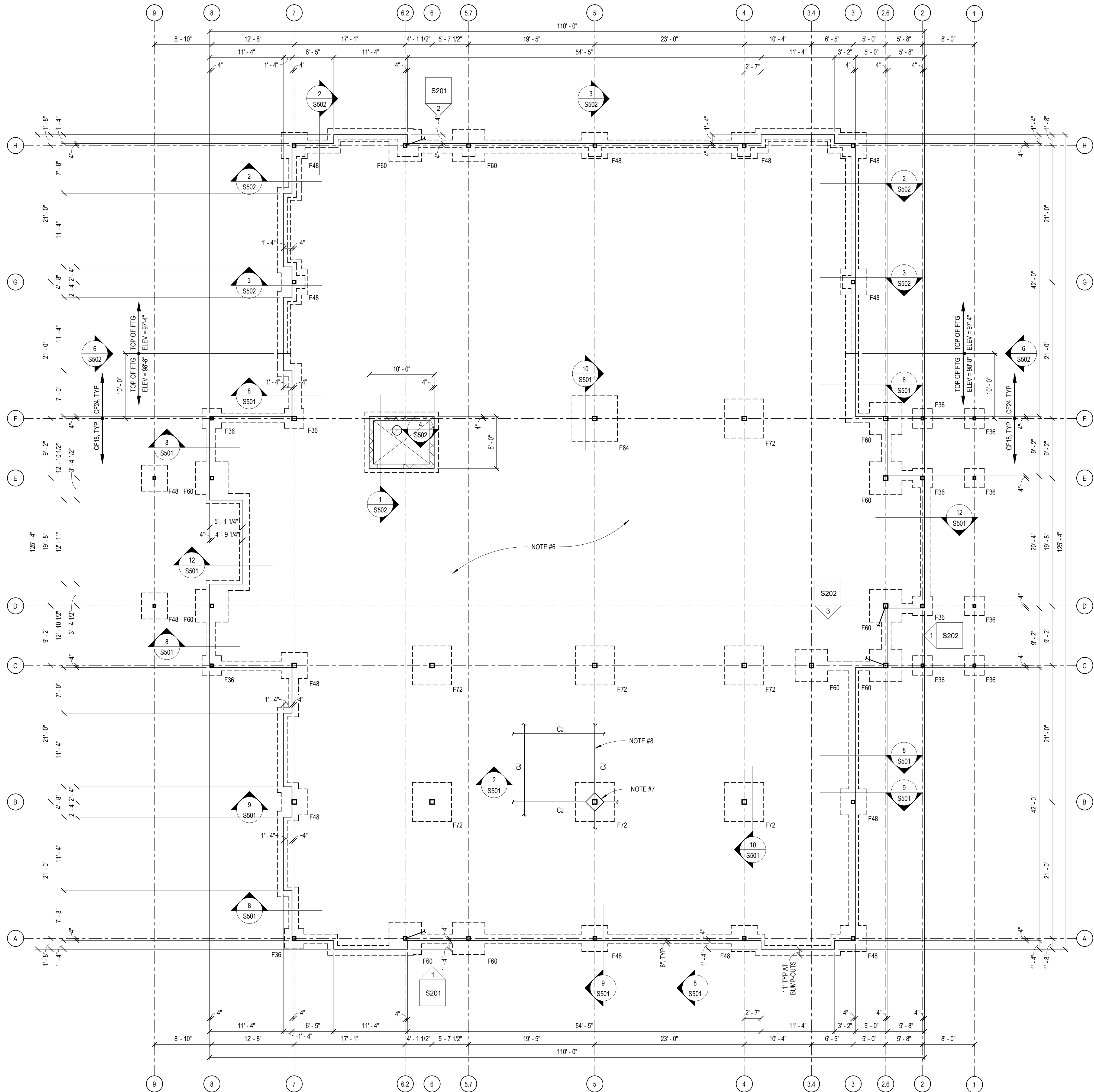
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2. SEE SHEET S201, S302, AND S303 FOR GENERAL NOTES.
3. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
4. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
5. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE DURING CONSTRUCTION FOR THE SLAB AREA. SLAB SUBGRADE SHALL NOT BE ALLOWED TO RETAIN WATER DURING CONSTRUCTION.
6. SEE SHEET S301 FOR REINFORCEMENT AT RE-ENTRANT CORNERS AND DISCONTINUOUS JOINTS.
7. FINISH FLOOR REFERENCE ELEVATION = 100'-0" (CIVIL ELEVATION = 766.50'). TYPICAL FLOOR SLAB SHALL BE 4" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 AT 16" OC EACH WAY OVER 15 MIL MINIMUM VAPOR BARRIER OVER #4. GRANULAR BASE COURSE OVER APPROVED LOW VOLUME CHANGE ENGINEERED FILL PER THE GEOTECHNICAL REPORT.
8. SLAB BLOCKOUTS AT COLUMNS AND BRACED FRAMES SHALL BE SIZED AS REQUIRED TO PROPERLY INSTALL AND CONNECT COLUMNS AND DIAGONAL BRACES. SEE SHEET S301.
9. CONTROL JOINTS SHOULD NOT BE SPACED MORE THAN 15'-0" OC, AND THE PANELS SO FORMED BY THE CONTROL JOINTS SHOULD NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5.
10. STAIR STRINGERS: CONNECT EACH STRINGER TO A 12" DEEP X 2'-0" WIDE THICKENED SLAB-ON-GRADE WITH #4 CONTINUOUS. USE L4x4x3'-9" AT EACH STRINGER WITH 1/2" DIA H/LT HAS BEEN EMBEDDED 4'-12" WITH #4 H/LT AT 1000-50 EPOXY.
11. THICKENED SLAB AT FLOOR BOXES AND CONDUIT TO MAINTAIN A MINIMUM 4" SLAB THICKNESS. SEE ELECTRICAL DRAWINGS FOR LOCATIONS.
12. HOUSEKEEPING PADS SHALL BE 4" x 16" N.W. CONCRETE PAD PLACED ON SLAB REINFORCE PAD WITH #3 AT 12" OC. E.V. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PADS.
13. TOP OF FOOTING ELEVATION = 98'-0" UNO.

ISOLATED FOOTING SCHEDULE		
MARK	SIZE (LxWxD)	REINFORCEMENT
F36	3'-0"x3'-0"x1'-6"	(4)-#5 BOT BARS, EW
F48	4'-0"x4'-0"x1'-6"	(6)-#5 BOT BARS, EW
F60	5'-0"x5'-0"x1'-6"	(7)-#5 BOT BARS, EW
F72	6'-0"x6'-0"x2'-0"	(8)-#6 BOT BARS, EW
F84	7'-0"x7'-0"x2'-0"	(9)-#6 BOT BARS, EW


CONTINUOUS FOOTING SCHEDULE		
MARK	SIZE (WxD)	REINFORCEMENT
CF18	1'-6"x1'-6"	(2)-#5 CONT T&B W/#3 TIES AT 48" OC
CF24	2'-0"x1'-6"	(3)-#5 CONT T&B W/#3 TIES AT 48" OC

ALL FOUNDATION BEARING SUBGRADES MUST BE OVER-EXCAVATED DOWN TO AND BEAR DIRECTLY ON WEATHERED LIMESTONE OR OVER-EXCAVATED TO WEATHERED LIMESTONE AND BACKFILLED WITH CONCRETE BACK TO THE PLANNED BEARING ELEVATIONS.

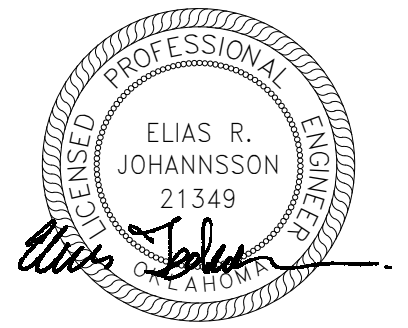


1 FOUNDATION PLAN
1/8" = 1'-0"

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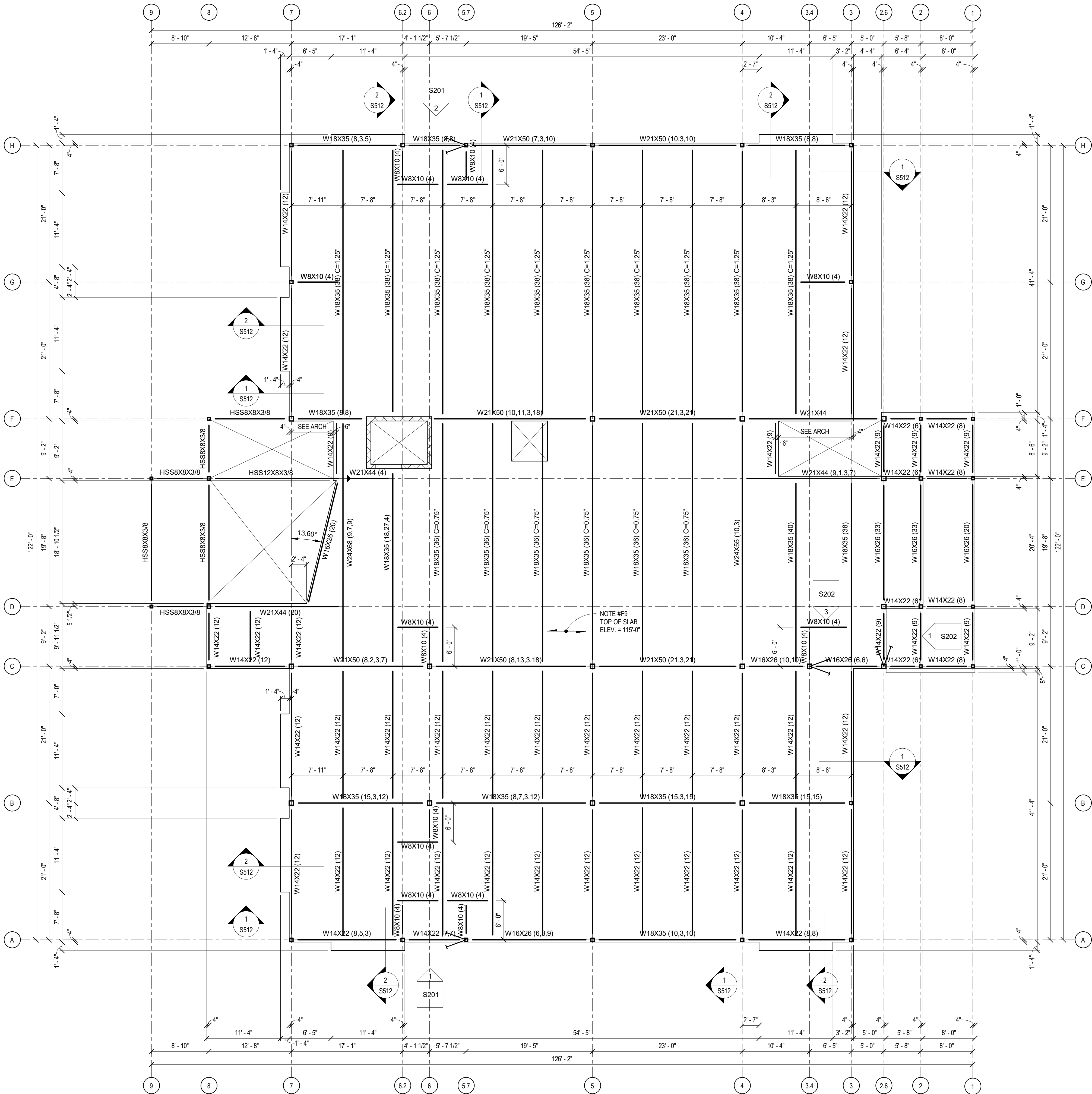
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FLOOR FRAMING PLAN NOTES

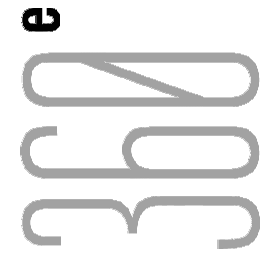
- F1. SEE SHEET S001, S002, AND S003 FOR GENERAL NOTES.
F2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
F3. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
F4. AT ALL EDGES OF OPENINGS WHERE EDGE ANGLE IS NOT NOTED, SEE 3/8S11.
F5. STEEL FABRICATOR SHALL DESIGN BEAM CONNECTIONS TO COLUMNS OR TO BEAMS FOR THE TOTAL REACTIONS SHOWN ON THE PLANS. REACTIONS INDICATED ARE FACTORED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD) METHOD. IF NO REACTION IS SHOWN ON THE PLANS, DESIGN FOR THE ASD FACTORED REACTION SHOWN IN THE STEEL BEAM MINIMUM CONNECTION SCHEDULE.
F6. PLACING CONDUIT IN SLAB IS NOT PERMITTED.
F7. ADDITIONAL PLATES, INCLUDED BUT NOT LIMITED TO DOUBLER PLATES AND STIFFENER PLATES, ARE THE RESPONSIBILITY OF THE CONNECTIONS ENGINEER.
F8. STAIR FABRICATOR TO DESIGN THE STAIR ASSEMBLY, INCLUDING ALL COMPONENTS AND CONNECTIONS TO SUPPORTING MEMBERS, IN ACCORDANCE WITH THE SPECIFICATIONS. RE: ARCH DRAWINGS FOR STAIR LAYOUT.
F9. FLOOR SLAB SHALL BE 2" NORMAL WT CONC ON 3 VLI GALVANIZED, 20 GAUGE COMPOSITE DECK (TOTAL DEPTH = 5"). REINFORCE WITH WWF 6x6-W1.4/W1.4 PLACED 3/4" BELOW TOP OF SLAB. FASTEN STEEL DECK RIBS TO SUPPORTS WITH 5/8" PUDDLE WELDS IN A 304 PATTERN. FASTEN DECK PANEL SIDELAPS WITH A MINIMUM OF (3)-#10 TEK SCREWS BETWEEN SUPPORTS. SEE PLAN FOR FINISH FLOOR ELEV.
F10. FLOOR SLAB SHALL BE 2" NORMAL WT CONC ON 3 VLI GALVANIZED, 16 GAUGE COMPOSITE DECK (TOTAL DEPTH = 5"). REINFORCE WITH WWF 6x6-W1.4/W1.4 PLACED 3/4" BELOW TOP OF SLAB. FASTEN STEEL DECK RIBS TO SUPPORTS WITH 5/8" PUDDLE WELDS IN A 304 PATTERN. FASTEN DECK PANEL SIDELAPS WITH A MINIMUM OF (3)-#10 TEK SCREWS BETWEEN SUPPORTS. SEE PLAN FOR FINISH FLOOR ELEV.

- INDICATES DIRECTION OF DECK SPAN
INDICATES MOMENT CONNECTION
* INDICATES CONCENTRATED LOAD
INDICATES DIAPHRAGM SHEAR COLLECTOR



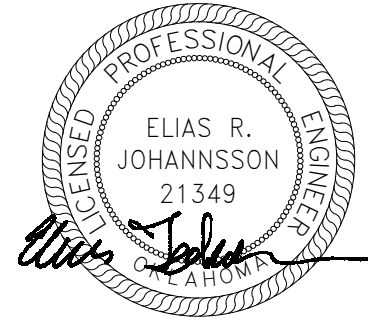
1 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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**2ND FLOOR
FRAMING PLAN**

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F1. SEE SHEET S001, S002, AND S003 FOR GENERAL NOTES.

F2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.

F3. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.

F4. AT ALL EDGES OF OPENINGS WHERE EDGE ANGLE IS NOT NOTED, USE 3X5S11 STEEL FABRICATOR SHALL DESIGN BARGE CONNECTIONS TO COLUMNS OR TO BEAMS FOR THE TOTAL REACTION. REACTION INDICATED ON CONNECTIONS INDICATED ARE FACTORED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD) METHOD. IF NO REACTION IS SHOWN ON THE PLANS, DESIGN FOR THE ASD FACTORED REACTION SHOWN IN THE STEEL BEAM MINIMUM CONNECTION SCHEDULE.

F6. PLACING CONDUIT IN SLAB IS NOT PERMITTED.

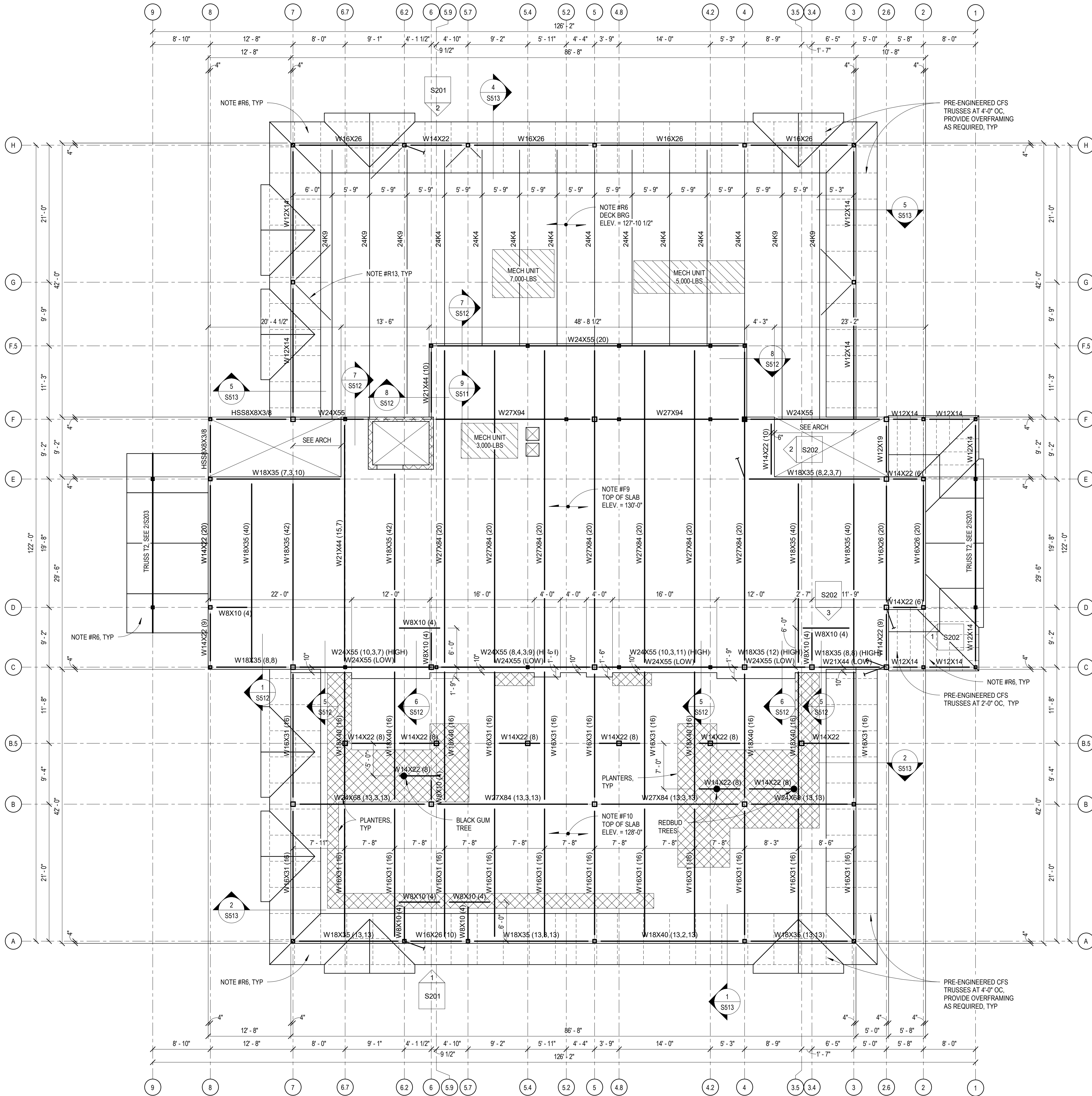
F7. ADDITIONAL PLATES, INCLUDING BUT NOT LIMITED TO DOUBLER PLATES AND REINFORCER PLATES, ARE NOT REQUIRED FOR THE CONNECTIONS ENGINEER.

F8. STEEL FABRICATOR TO DESIGN THE STAIR ASSEMBLY, INCLUDING ALL COMPONENTS AND CONNECTIONS TO SUPPORTING MEMBERS, IN ACCORDANCE WITH THE SPECIFICATIONS. RE: ARCH DRAWINGS FOR STAIR LAYOUT.

F9. FLOOR SLAB SHALL BE 2" NORMAL WT CONC ON 3" VUL GALVANIZED 16WG COMPOSITE DECK (TOTAL DEPTH = 5"). REINFORCE WITH WWF 6x6-W/ 4W/ 4 PLACED TOP OF SLAB IN 304 PATTERN. FASTEN DECK PLATE SIDELAPS WITH 5/8" PUDLE WELDS IN A 304 PATTERN. FASTEN DECK PLATE SIDELAPS WITH A MINIMUM OF 3" #10 TC SCREWS BETWEEN SUPPORTS. SEE PLAN FOR FINISH FLOOR ELEV.

F10. FLOOR SLAB SHALL BE 2" NORMAL WT CONC ON 3" VUL GALVANIZED 16WG COMPOSITE DECK (TOTAL DEPTH = 5"). REINFORCE WITH WWF 6x6-W/ 4W/ 4 PLACED TOP OF SLAB IN 304 PATTERN. FASTEN DECK PLATE SIDELAPS WITH 5/8" PUDLE WELDS IN A 304 PATTERN. FASTEN DECK PLATE SIDELAPS WITH A MINIMUM OF 3" #10 TC SCREWS BETWEEN SUPPORTS. SEE PLAN FOR FINISH FLOOR ELEV.

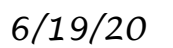
- R1. SEE SHEET S001, S002, AND S003 FOR GENERAL NOTES.
- R2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
- R3. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
- R4. "BOD" INDICATES BOTTOM OF DECK ELEVATION.
- R5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
- R6. TYPICAL ROOF DECK SHALL BE 1 1/2" DEEP X 24 GA. TYPE "B" GALVANIZED (S80). FASTEN STEEL STUDS TO SUPPORTS WITH #10 TIE SCREWS AT 12" OC (864 PATTERN). FASTEN DECK PANEL SIDEPLATES WITH A MINIMUM OF (3) #10 TIE SCREW BETWEEN SUPPORTS.
- R7. CONCENTRATED LOADS AT STEEL JOIST BOTTOM CHORD OR TOP CHORD MAY OCCUR UP TO 1'-0" AWAY FROM LOCATION SHOWN. LOADS INDICATED ARE FACTORED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD) METHOD. REFERENCE TYPICAL MECHANICAL UNIFORM DETAIL FOR MECHANICAL FOR EXACT LOCATION.
- R8. STEEL JOIST MANUFACTURER SHALL COORDINATE MECHANICAL DUCT LOCATIONS TO AVOID CONFLICT WITH BRIDGING.
- R9. --- INDICATES KICKER, SEE DETAIL.
- R10. STEEL BRIDGING AND ERECTION STABILITY SHALL BE PROVIDED IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HAZARD ADMINISTRATION (OSHA) AND THE STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS OF LATEST ADOPTION TYPE FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING DISCONTINUES.
- R11. STEEL FABRICATOR SHALL DESIGN BEAM CONNECTIONS TO COLUMNS OR TO BEAMS FOR THE TOTAL REACTIONS SHOWN ON THE PLANS. REACTIONS INDICATED ARE FACTORED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD) METHOD. IF NO REACTION IS SHOWN ON THE PLANS, DESIGN FOR THE ASD FACTORED REACTION SHOWN IN THE STEEL BEAM MINIMUM CONNECTION DETAIL.
- R12. ADDITIONAL PLATES, INCLUDED BUT NOT LIMITED TO DOUBLER PLATES AND STIFFENER PLATES, ARE THE RESPONSIBILITY OF THE CONNECTIONS ENGINEER.
- R13. L3x3x1/4 BRACE FROM TOP OF COLUMN TO TOP CHORD PANEL POINT. COPE VERTICAL L3x1/4 COLUMN AND JOIST. WELD TO DECK AT 6" OC, TYP.



1 3RD FLOOR AND LOW ROOF FRAMING PLAN
1/8" = 1'-0"

$$1/8'' = 1'-0''$$

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NO.	DESCRIPTION	DATE
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SHEET NUMBER:

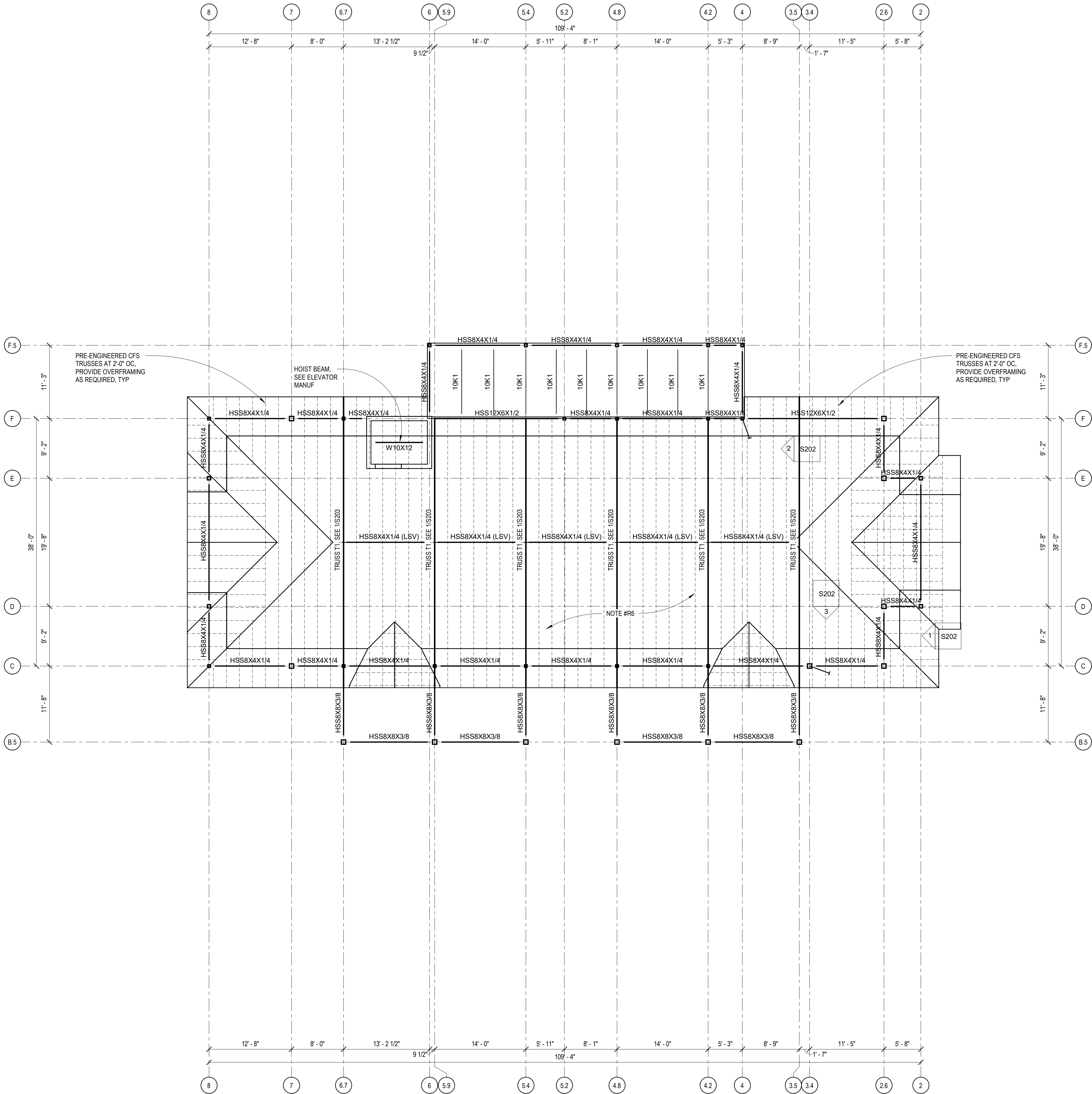
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ROOF FRAMING PLAN NOTES

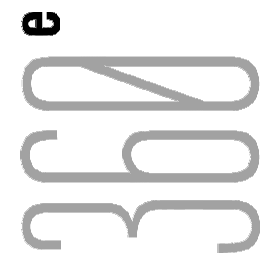
- R1. SEE SHEET S001, S002, AND S003 FOR GENERAL NOTES.
R2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
R3. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATION OF PENETRATIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
R4. "BOD" INDICATES BOTTOM OF DECK ELEVATION.
R5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
R6. TYPICAL ROOF DECK SHALL BE 1 1/2" DEEP x 22 GA. TYPE "B" GALVANIZED (G60). FASTEN STEEL DECK RIBS TO SUPPORTS WITH #10 TEK SCREWS AT 12" OC (3/4 PATTERN). FASTEN DECK PANEL SIDELAPS WITH A MINIMUM OF (3) #10 TEK SCREW BETWEEN SUPPORTS.
R7. CONCENTRATED LOADS AT STEEL JOIST BOTTOM CHORD OR TOP CHORD MAY OCCUR UP TO 1'-0" AWAY FROM LOCATION SHOWN. LOADS INDICATED ARE FACTORED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD) METHOD. REFERENCE TYPICAL MECHANICAL UNIT SUPPORT DETAIL. REFERENCE MECHANICAL FOR EXACT LOCATIONS.
R8. STEEL JOIST MANUFACTURER SHALL COORDINATE MECHANICAL DUCT LOCATIONS TO AVOID CONFLICT WITH BRIDGING.
R9. — INDICATES KICKER, SEE DETAIL.
R10. JOIST BRIDGING AND ERECTION STABILITY SHALL BE PROVIDED IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HAZARD ADMINISTRATION (OSHA) AND THE STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS OF LATEST ADOPTION TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGE SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING DISCONTINUES.
R11. STEEL FABRICATOR SHALL DESIGN BEAM CONNECTIONS TO COLUMNS OR TO BEAMS FOR THE TOTAL REACTIONS SHOWN ON THE PLANS. REACTIONS INDICATED ARE FACTORED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD) METHOD. IF NO REACTION IS SHOWN ON THE PLANS, DESIGN FOR THE ASD FACTORED REACTION SHOWN IN THE STEEL BEAM MINIMUM CONNECTION SCHEDULE.
R12. ADDITIONAL PLATES, INCLUDED BUT NOT LIMITED TO DOUBLER PLATES AND STIFFENER PLATES, ARE THE RESPONSIBILITY OF THE CONNECTIONS ENGINEER.
R13. L3x3x1/4 BRACE FROM TOP OF COLUMN TO TOP CHORD PANEL POINT. COPE VERTICAL LEG. WELD TO COLUMN AND JOIST. WELD TO DECK AT 6" OC, TYP.

- ← INDICATES DIRECTION OF DECK SPAN
▶ INDICATES MOMENT CONNECTION
* INDICATES CONCENTRATED LOAD
INDICATES DIAPHRAGM SHEAR COLLECTOR



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

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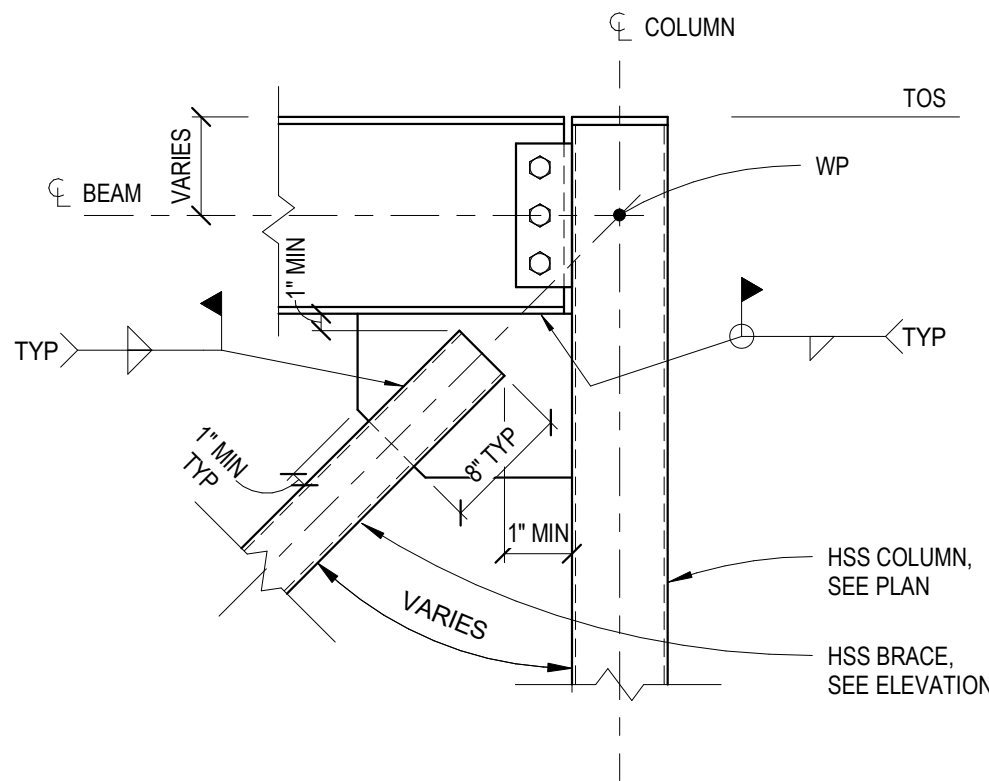
SHEET NAME:
**HIGH ROOF
FRAMING PLAN**

SHEET NUMBER:
S104

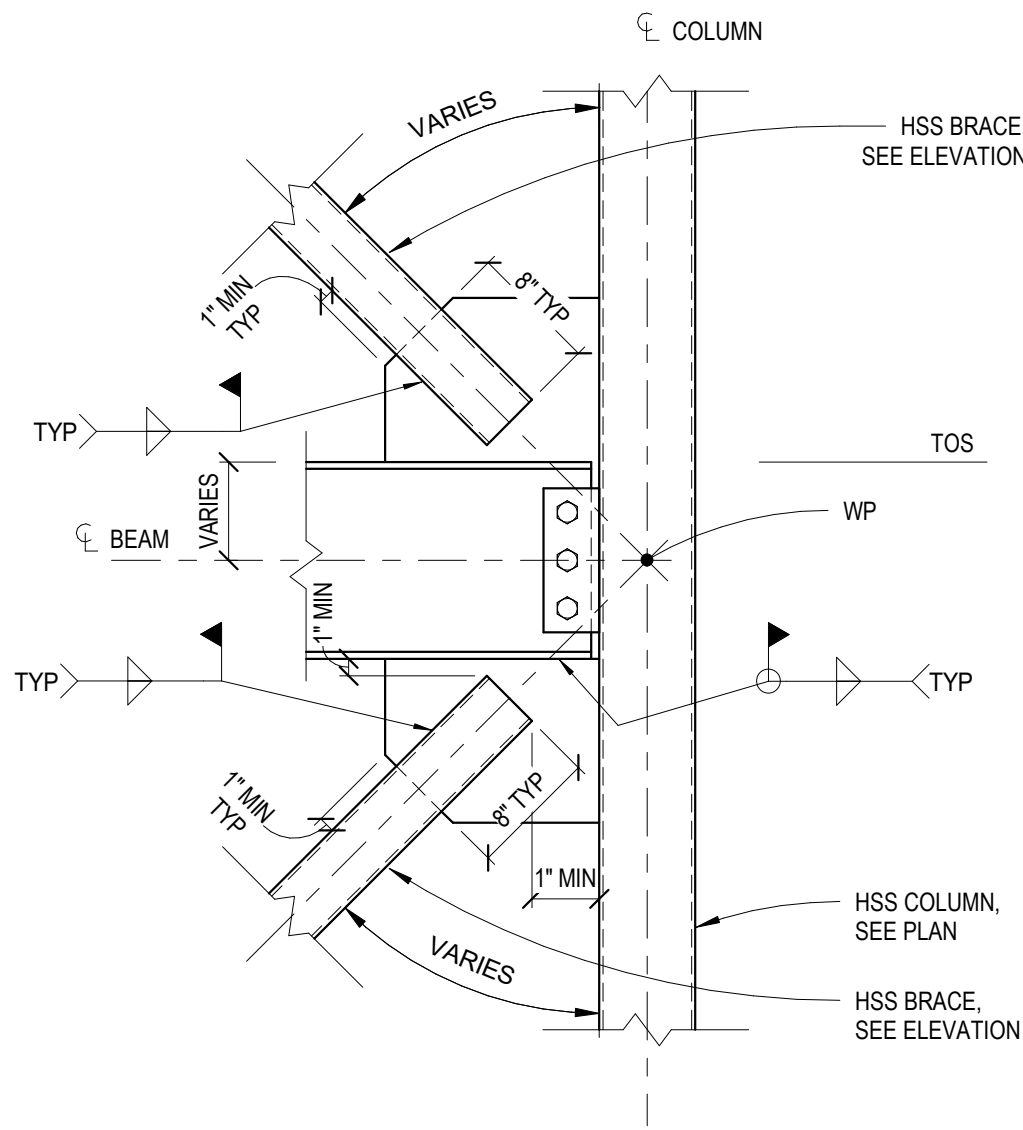
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BRACED FRAME CONNECTION DESIGN NOTES

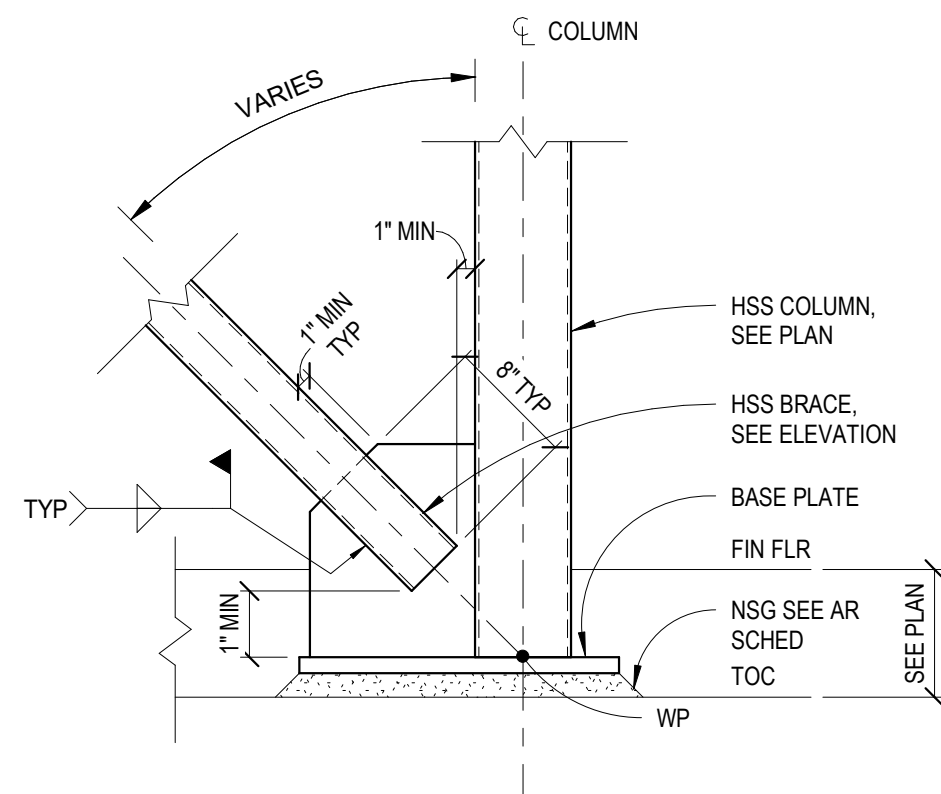
1. "T" - REPRESENTS ASD FACTORED TENSION FORCE IN DIAGONAL BRACING MEMBERS.
2. "C" - REPRESENTS ASD FACTORED COMPRESSION FORCE IN DIAGONAL BRACING MEMBERS.
3. "K" - REPRESENTS A UNIT OF 1,000 LBS
4. SEE FRAMING PLAN FOR GRAVITY ASD FACTORED BEAM END REACTIONS FOR CONNECTION DESIGN. IF NO REACTION IS SHOWN ON PLAN, DESIGN FOR REACTION SHOWN IN THE TYPICAL BEAM CONNECTION SCHEDULE. SEE PLANS FOR ASD FACTORED AXIAL TENSION AND COMPRESSION FORCES IN BEAMS, GRAVITY ASD FACTORED BEAM END REACTIONS SHALL BE COMBINED WITH THE ASD FACTORED TENSION AND COMPRESSION FORCES DUE TO WIND AND SEISMIC AS NOTED ON THE FRAMING PLANS FOR CONNECTION DESIGN.
5. CONNECTIONS SHALL BE DESIGNED BY USING THE ALLOWABLE STRESS DESIGN (ASD) METHOD (ASD) AND SHALL MEET ALL REQUIREMENTS OF ANSIAISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" IN THE STEEL CONSTRUCTION MANUAL, ISSUED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
6. CENTROIDAL AXES OF BRACED FRAME ELEMENTS SHALL INTERSECT AT COMMON WORK POINTS, UNO.



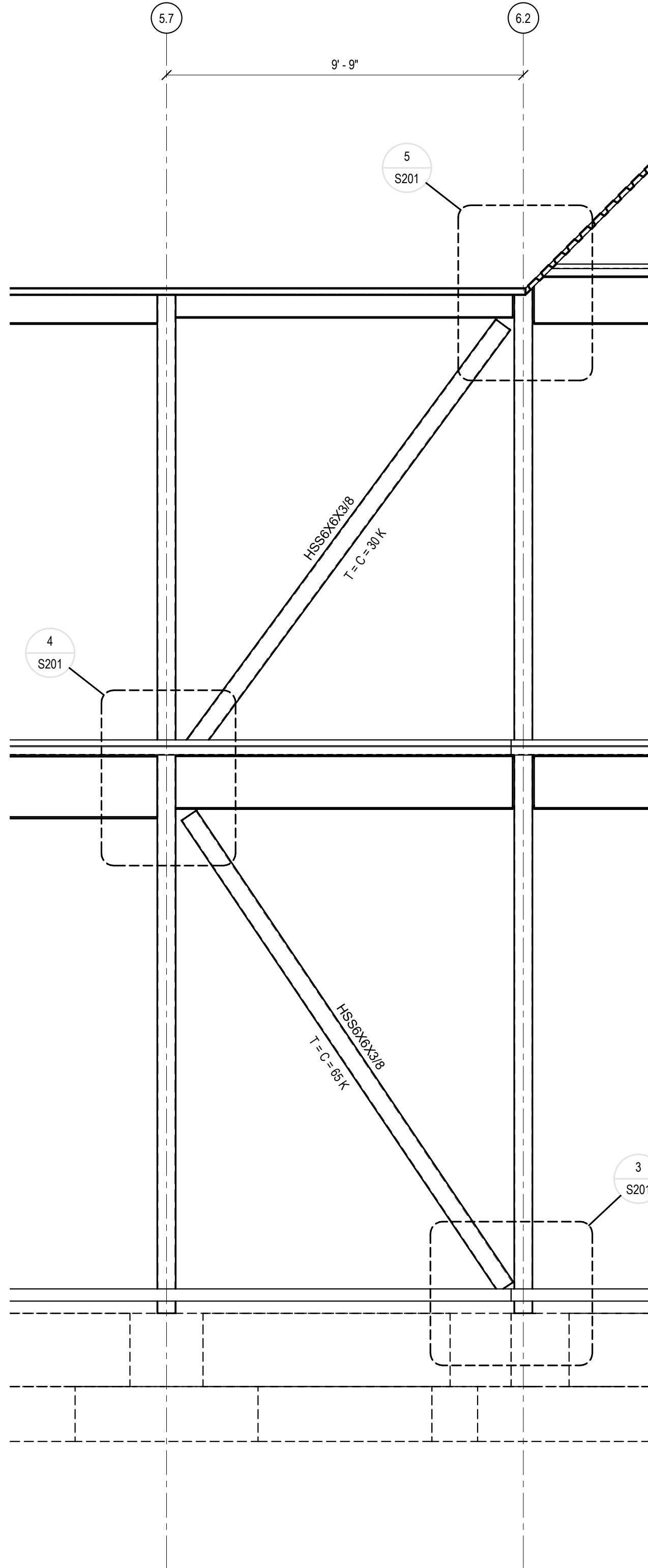
5 BRACE DETAIL
1" = 1'-0"



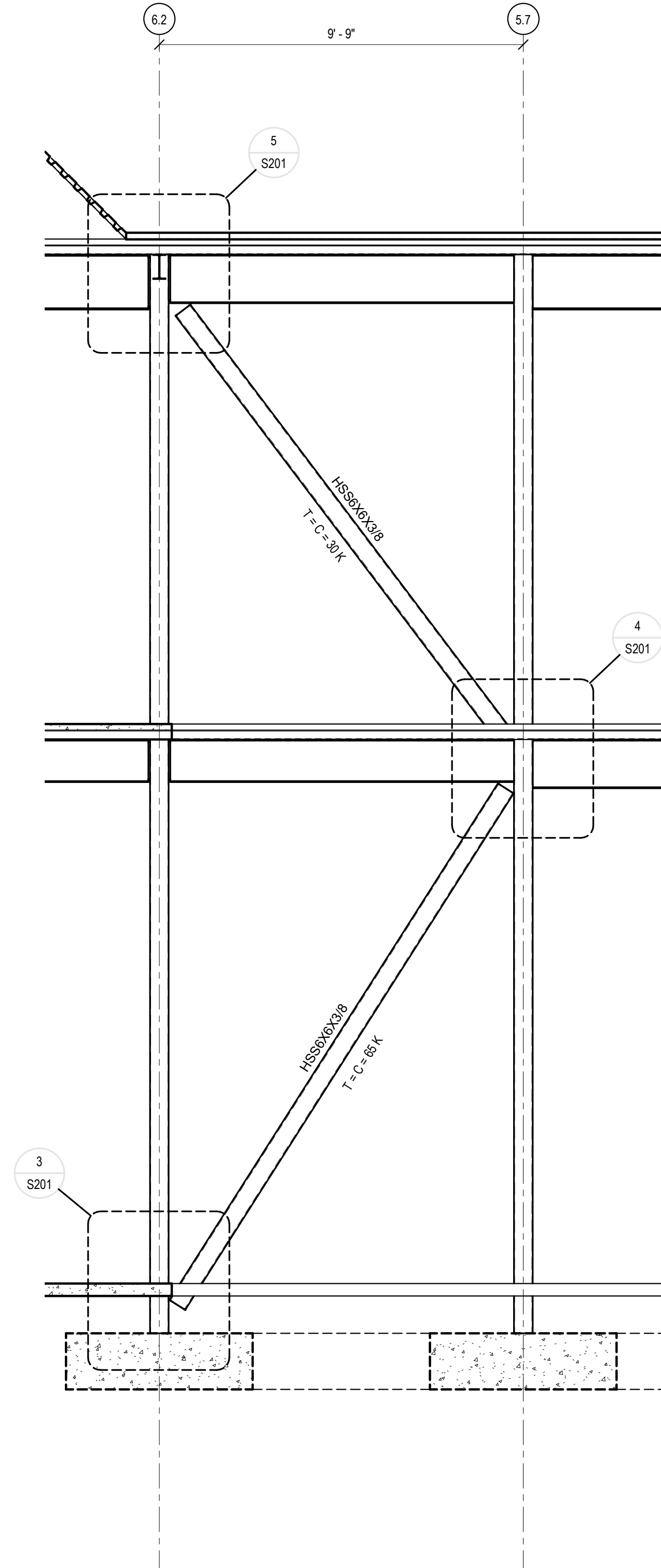
4 BRACE DETAIL
1" = 1'-0"



3 BRACE DETAIL
1" = 1'-0"

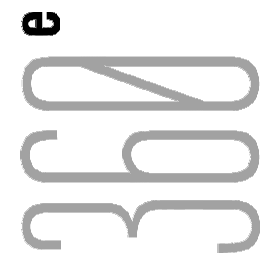


2 FRAMING ELEVATION GRID H
3/8" = 1'-0"



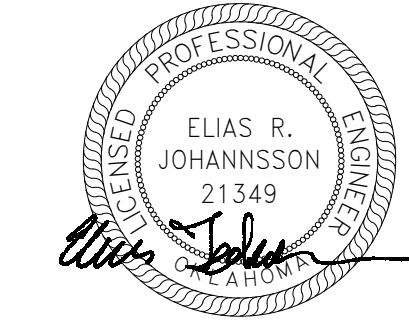
1 FRAMING ELEVATION GRID A
3/8" = 1'-0"

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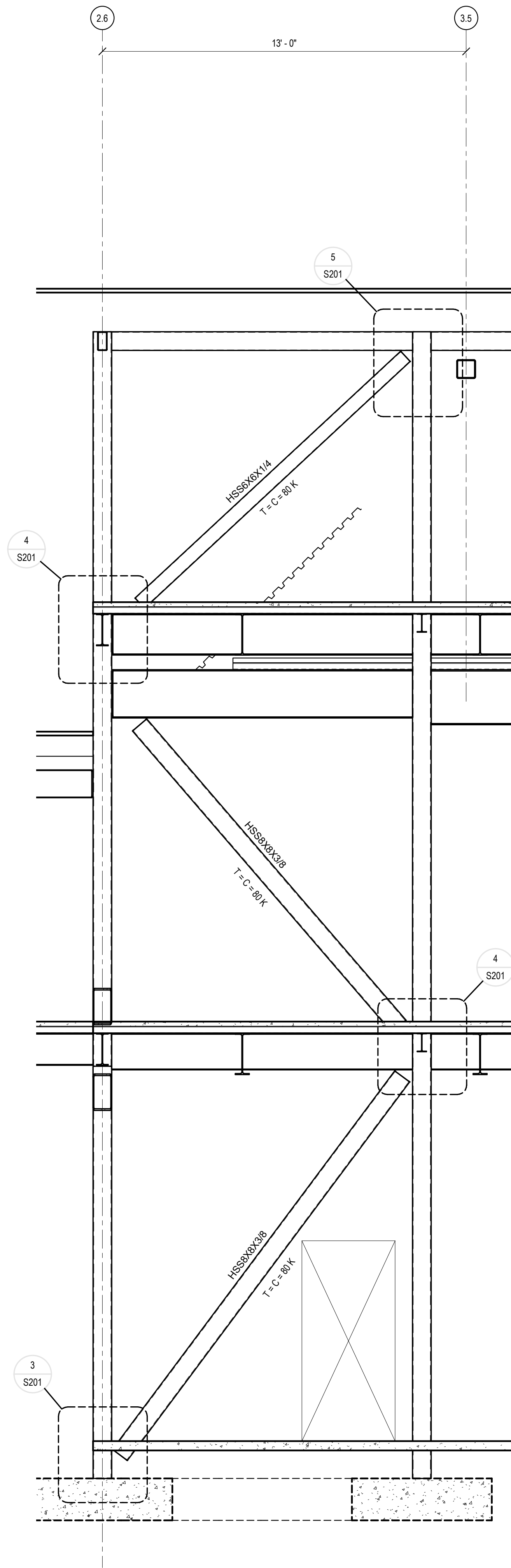
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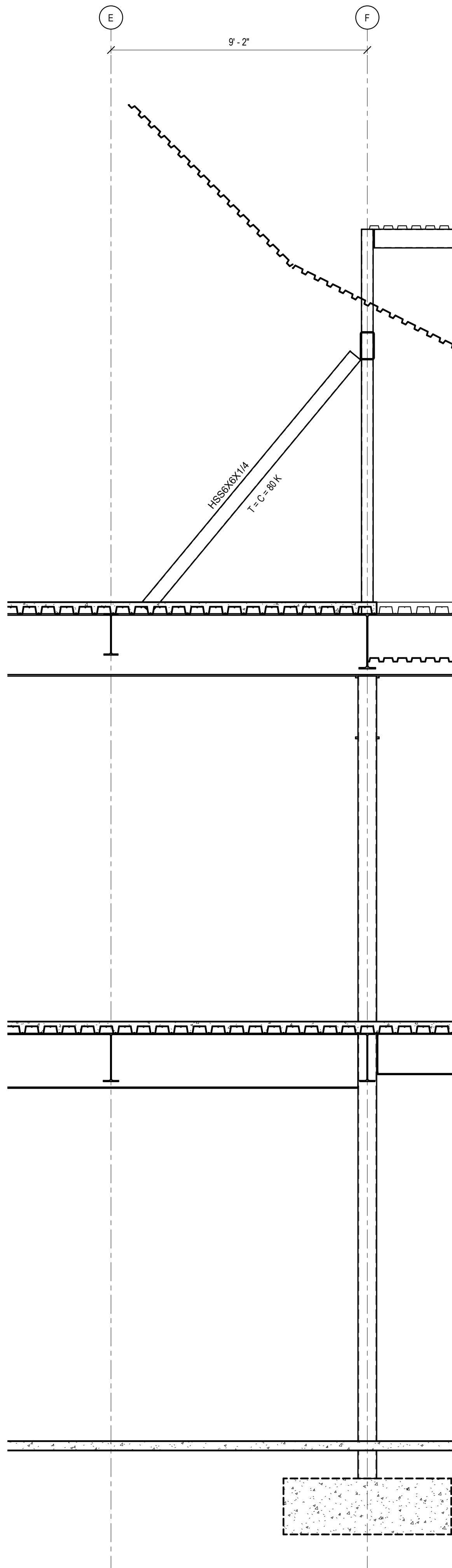
SHEET NAME:
**FRAMING
ELEVATIONS**

SHEET NUMBER:
S201

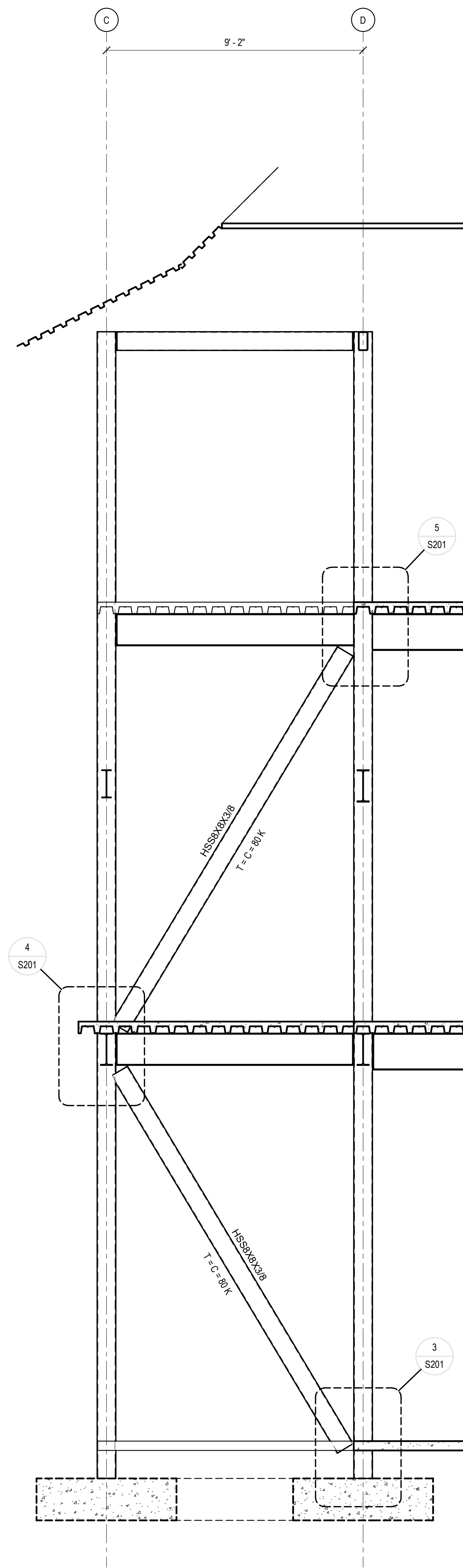
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3 FRAMING ELEVATION GRID C
3/8" = 1'-0"

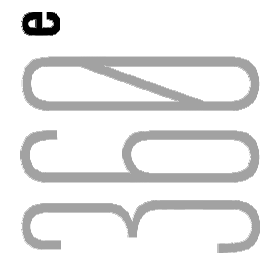


2 FRAMING ELEVATION GRID 4
3/8" = 1'-0"

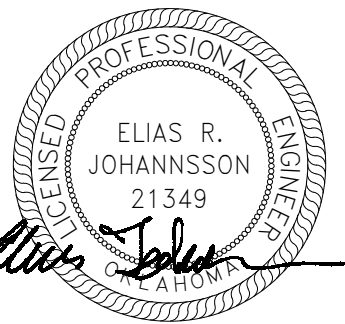


1 FRAMING ELEVATION GRID 2.6
3/8" = 1'-0"

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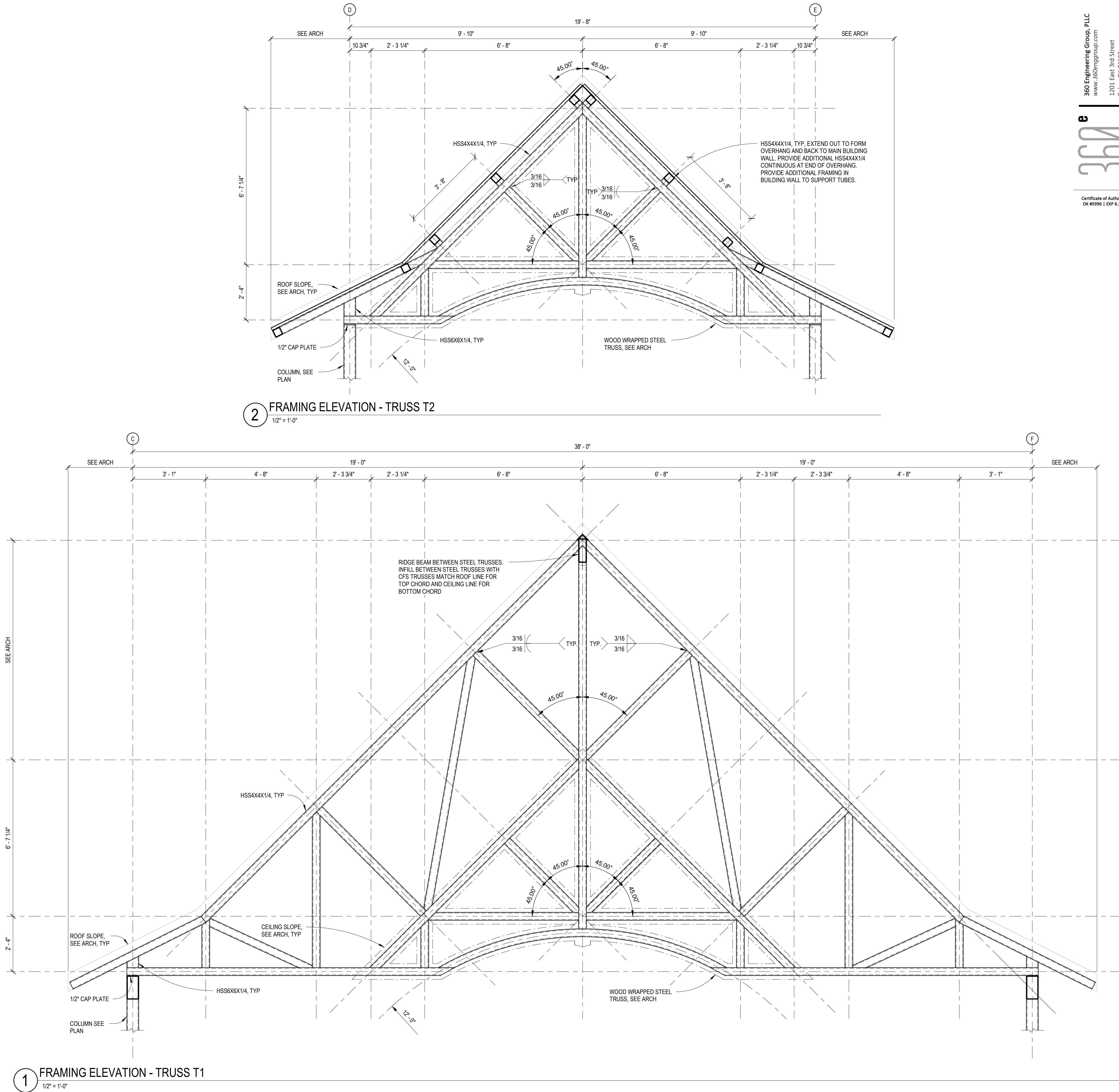
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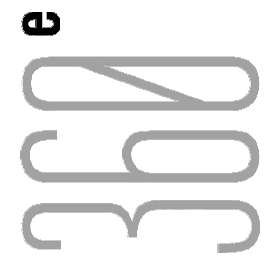
SHEET NAME:
**FRAMING
ELEVATIONS**

SHEET NUMBER:
S202

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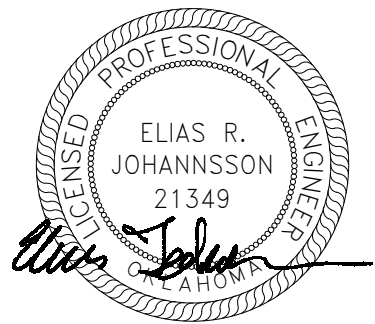


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SHEET NAME:
**FRAMING
ELEVATIONS**

SHEET NUMBER:
S203

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ROOF FRAMING PLAN														ROOF FRAMING PLAN
139' - 8"				<div>HSS8X8X3/8</div>				<div>HSS8X8X1/4</div>				<div>HSS8X6X1/4</div>	<div>HSS8X6X1/4</div>	139' - 8"
3RD FLOOR FRAMING PLAN														3RD FLOOR FRAMING PLAN
130' - 0"														130' - 0"
2ND FLOOR FRAMING PLAN														2ND FLOOR FRAMING PLAN
115' - 0"	<div>HSS8X6X1/4</div>	<div>HSS8X6X3/8</div>	<div>HSS8X8X3/8</div>		<div>HSS8X6X1/4</div>	<div>HSS8X8X3/8</div>	<div>HSS8X8X3/8</div>		<div>HSS8X6X1/4</div>	<div>HSS8X6X1/4</div>		<div>HSS8X6X1/4</div>	<div>HSS8X8X3/8</div>	115' - 0"
FOUNDATION PLAN														FOUNDATION PLAN
100' - 0"														100' - 0"
Column Locations	A-3, A-4, A-5, A-5.7, A-6.2, A-7	B-3	B-4, B-5, B-6, B-7	B-5-3.5, B-5-4.2, B-5-4.8, B-5-5.4, B-5-5.9, B-5-6.7	C-1, C-2, D-1, E-1, F-1, F-2	C-2.6, C-3.4, C-7, D-2.6, E-2.6, F-2.6, F-7	C-4, C-5, C-6	C-4.2, C-4.8, C-5.4, C-5.9, C-6.7, F-6.7	C-8, F-8	D-2, D-8, E-2, E-8	D-9, E-9	F-4	F-4.2, F-4.8, F-5.2	

ROOF FRAMING PLAN		<div>HSS8X6X1/4</div>		ROOF FRAMING PLAN
139' - 8"				139' - 8"
3RD FLOOR FRAMING PLAN				3RD FLOOR FRAMING PLAN
130' - 0"				130' - 0"
2ND FLOOR FRAMING PLAN				2ND FLOOR FRAMING PLAN
115' - 0"	<div>HSS8X8X1/2</div>		<div>HSS8X6X1/4</div>	115' - 0"
FOUNDATION PLAN				FOUNDATION PLAN
100' - 0"				100' - 0"
Column Locations	F-5	F-5.4, F-5-4.2, F-5-4.8, F-5-5.4, F-5-6	G-3, G-7, H-3, H-4, H-5, H-6.7, H-6.2, H-7	

360°^e

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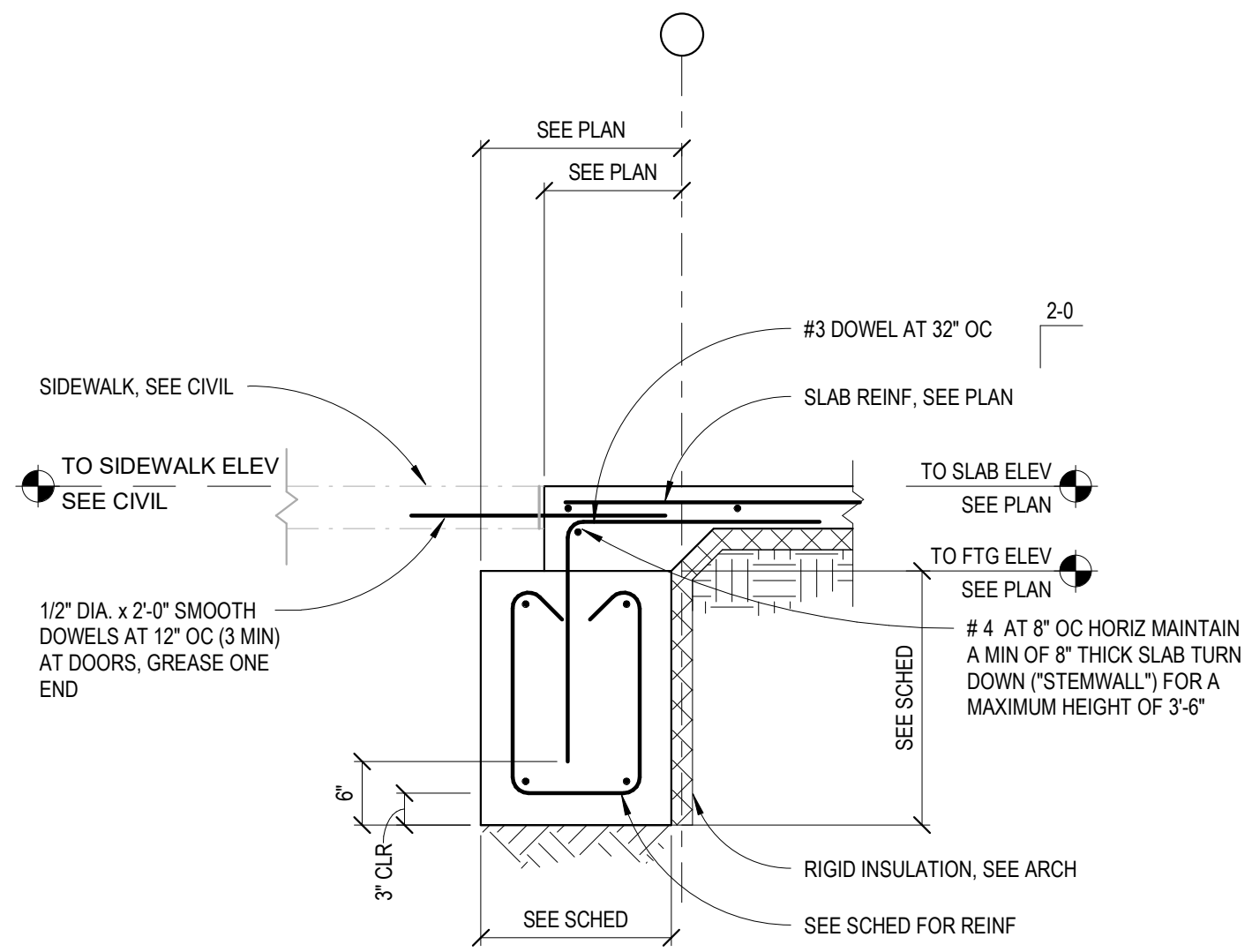
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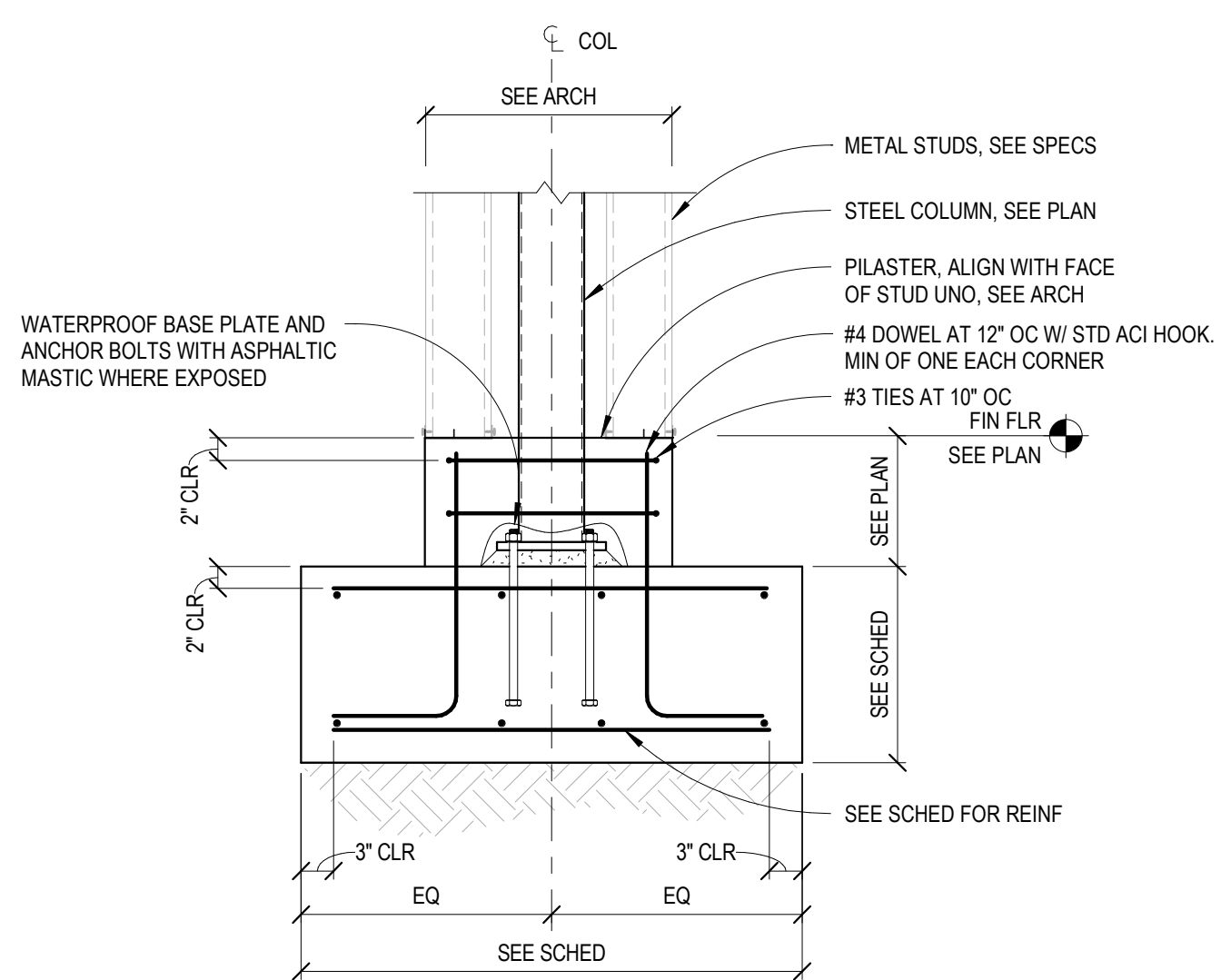
SHEET NAME:
**COLUMN
SCHEDULE**

SHEET NUMBER:
S301

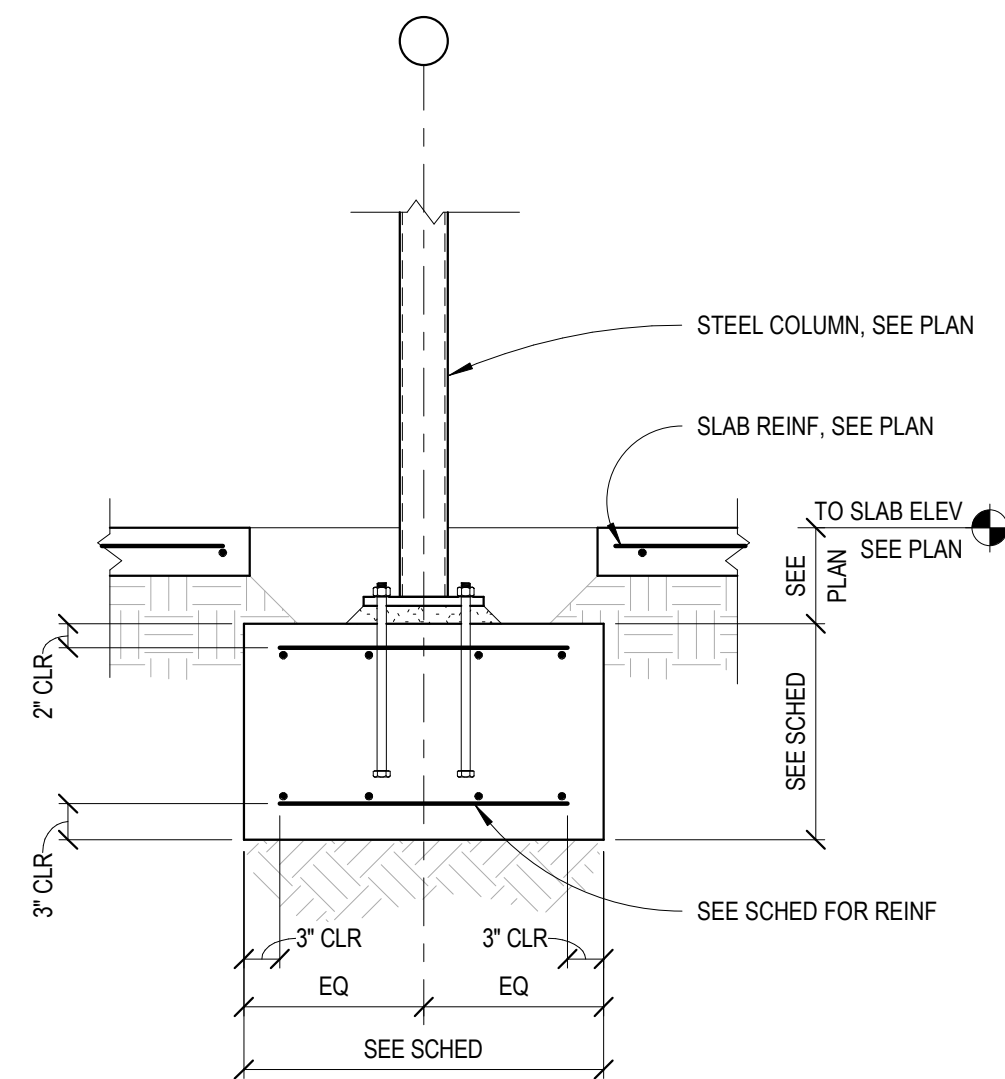
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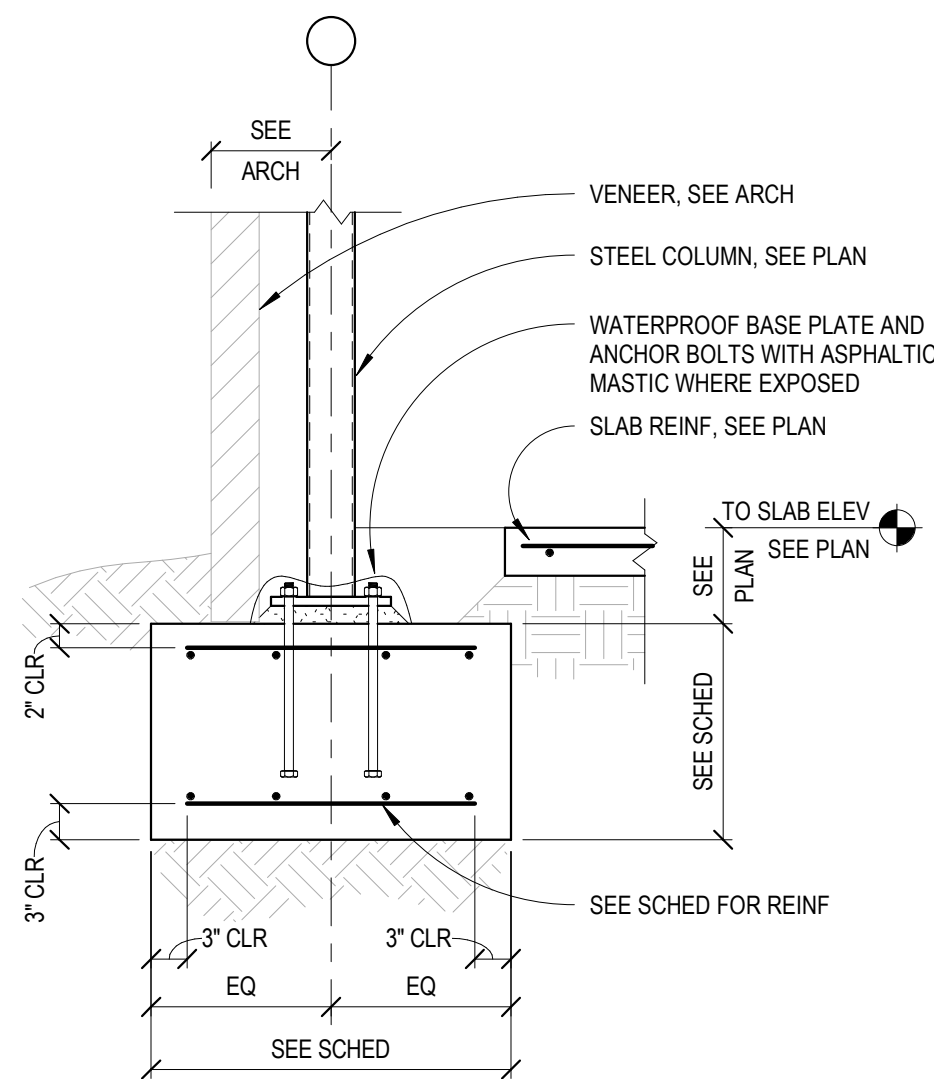
12 FOOTING DETAIL
3/4" = 1'-0"



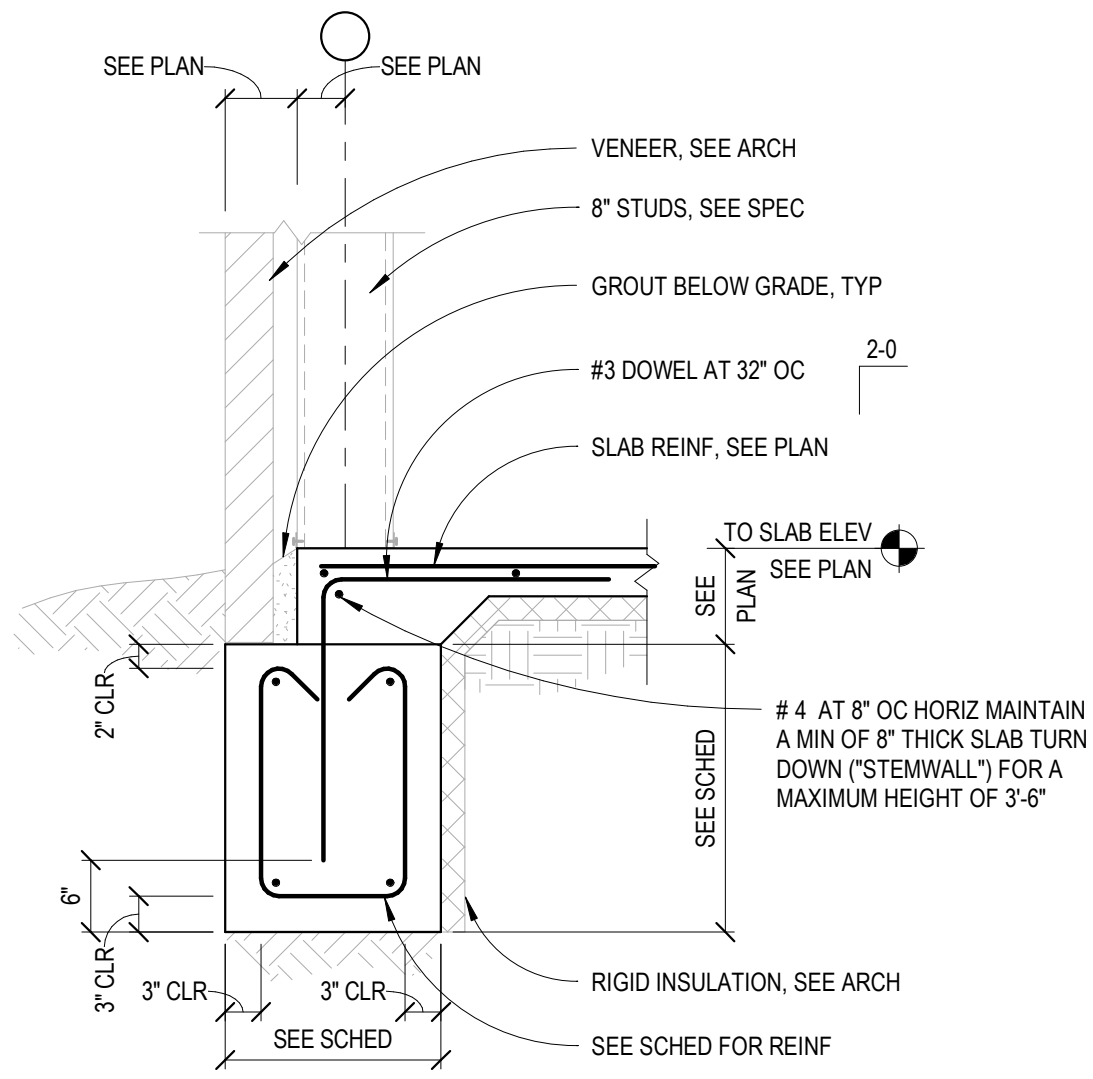
11 TYP PILASTER FOOTING DETAIL
3/4" = 1'-0"



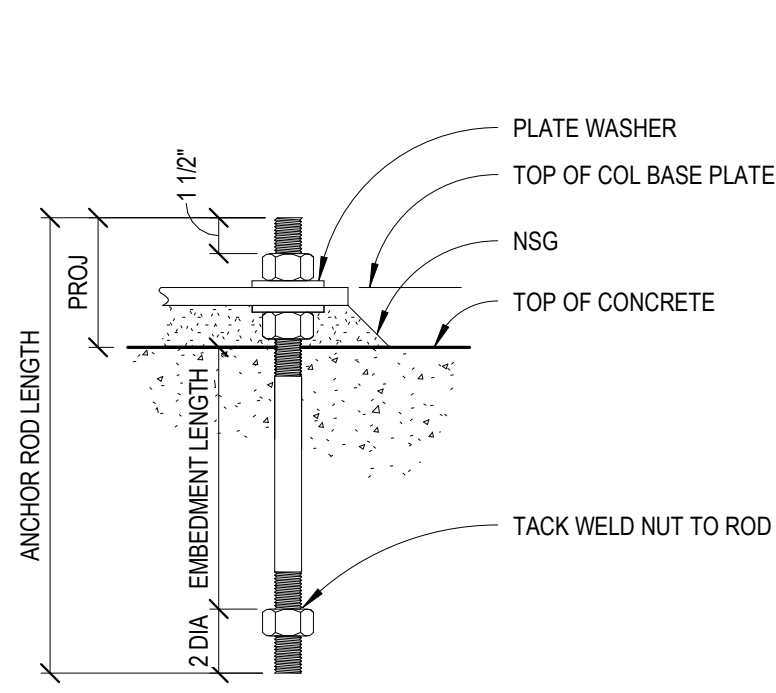
10 FOOTING DETAIL
3/4" = 1'-0"



9 FOOTING DETAIL
3/4" = 1'-0"



8 FOOTING DETAIL
3/4" = 1'-0"

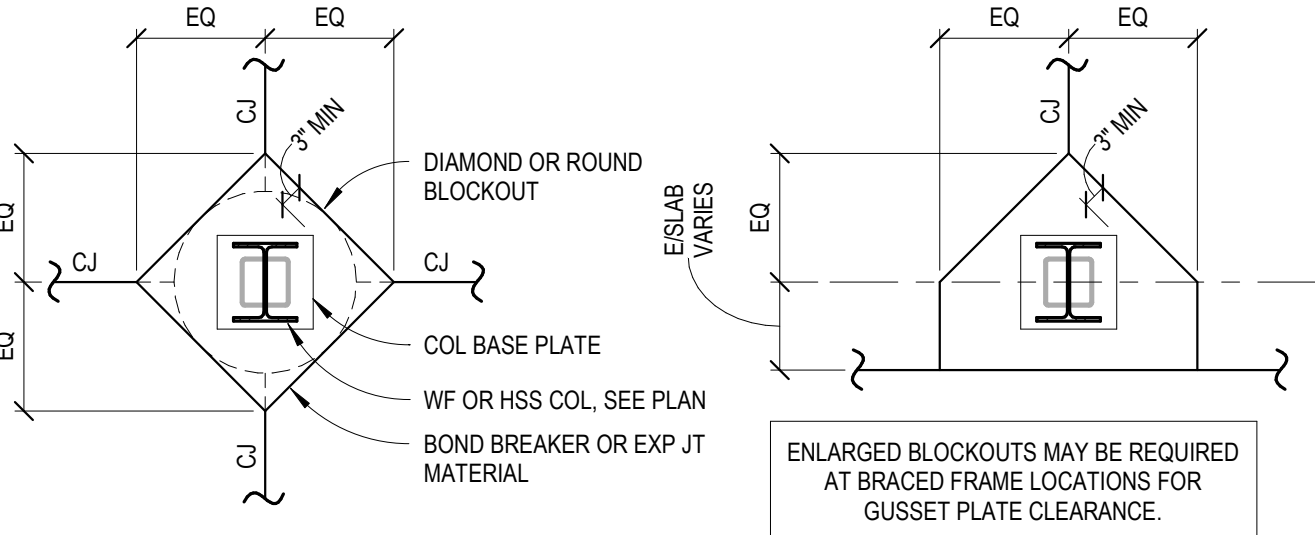


7 ANCHOR ROD DETAILS
NO SCALE

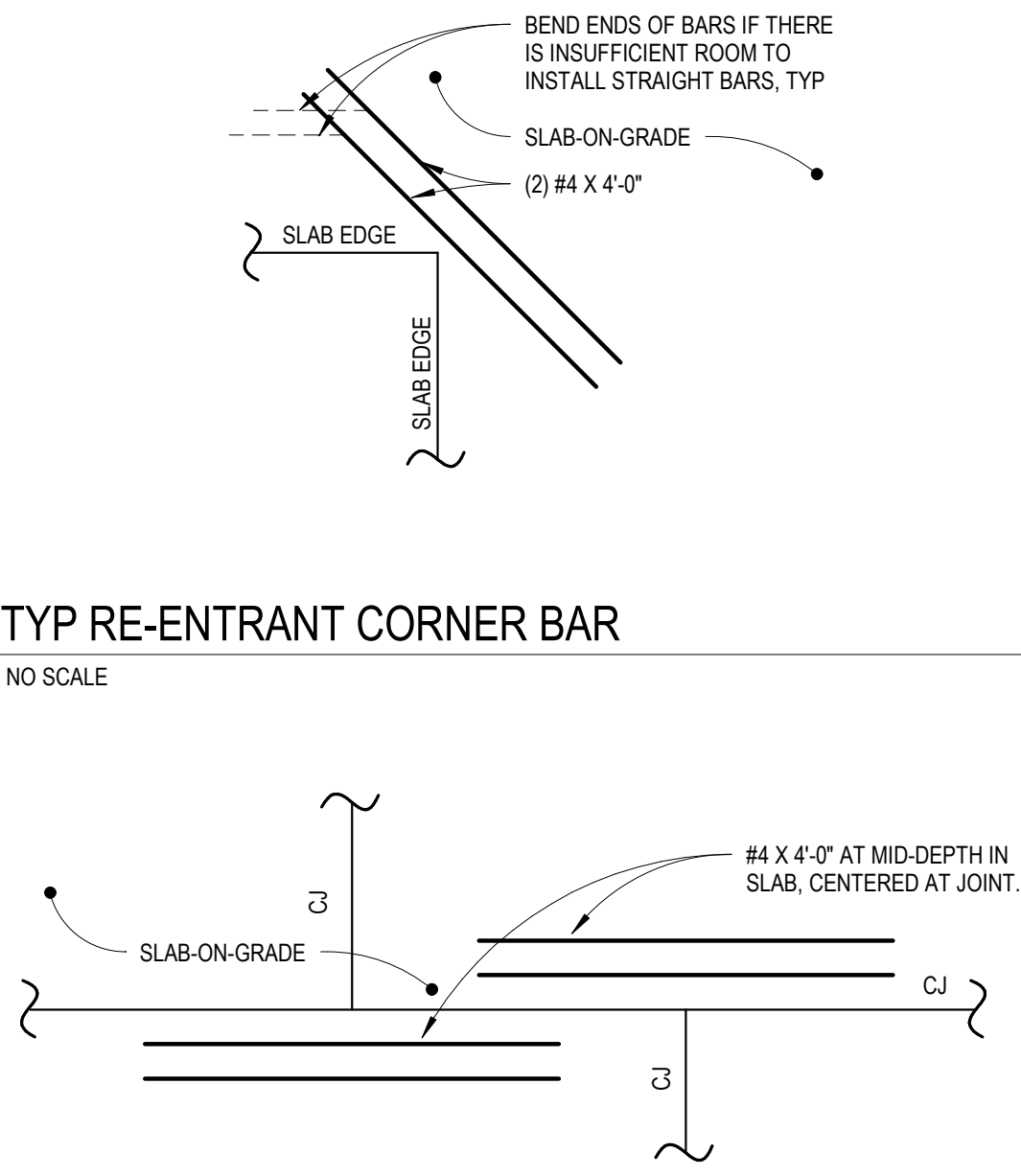
BASEPLATE SCHEDULE						
MARK	TYPE	THICKNESS	"A"	"B"	"C"	"D"
B1	A	3/4"	0'-11"	0'-11"	1 1/2"	---
B2	A	3/4"	1'-0"	1'-0"	1 1/2"	---
B3	A	3/4"	1'-2"	1'-2"	1 1/2"	---
B4	B	3/4"	1'-0"	1'-0"	1 1/2"	3 1/2"
B5	C	3/4"	1'-0"	1'-0"	1 1/2"	3 1/2"
B6	A	1"	1'-2"	1'-2"	1 1/2"	---
B7	D	1"	2'-5"	1'-6"	3"	9"
B8	E	1"	1'-6"	1'-1"	2"	4"
B9	F	1"	2'-3"	1'-6"	2"	4"

6 COLUMN BASE PLATE SCHEDULE
NO SCALE

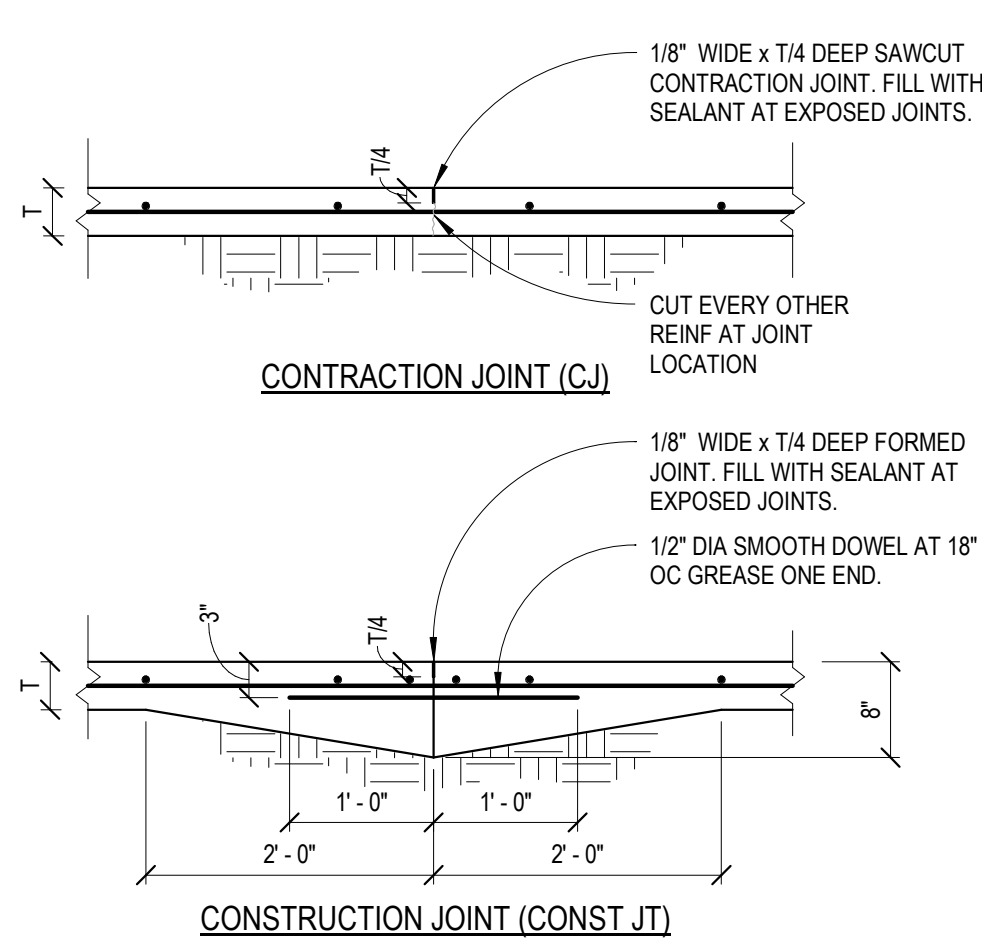
- NOTES:**
1. USE OVERSIZED HOLES AND WASHERS FOR ANCHORS RODS ACCORDING TO AISC MANUAL (14 ED.) TABLE 14.2 UNO.
 2. SEE THIS SHEET FOR ANCHOR ROD DETAIL AND GROUT INFORMATION.
 3. - INDICATES MINIMUM FILLET WELD PER AISC.
 4. PLATE TYPE "B" SHALL HAVE VERTICAL PLATE ORIENTED TO ACCEPT DIAGONAL BRACE. SEE BRACED FRAME ELEVATION SHEET(S).
 5. USE BASE PLATE TYPE B1 FOR HSS6X6 COLUMNS, TYP. UNO
 6. USE BASE PLATE TYPE B2 FOR HSS6X6 COLUMNS, TYP. UNO
 7. USE BASE PLATE TYPE B3 FOR HSS6X6 COLUMNS, TYP. UNO
 8. USE BASE PLATE TYPE B4 AT GRID INTERSECTIONS G/3, G/7, H/4, AND H/5
 9. USE BASE PLATE TYPE B5 AT GRID INTERSECTIONS H/3 AND H/7
 10. USE BASE PLATE TYPE B6 AT GRID INTERSECTIONS A/5,7, C/3,4, AND F/2,6
 11. USE BASE PLATE TYPE B7 AT GRID INTERSECTIONS A/6,2, C/2,6, D/2,6, AND E/2,6
 12. USE BASE PLATE TYPE B8 AT GRID INTERSECTION H/5,7
 13. USE BASE PLATE TYPE B9 AT GRID INTERSECTION H/6,2



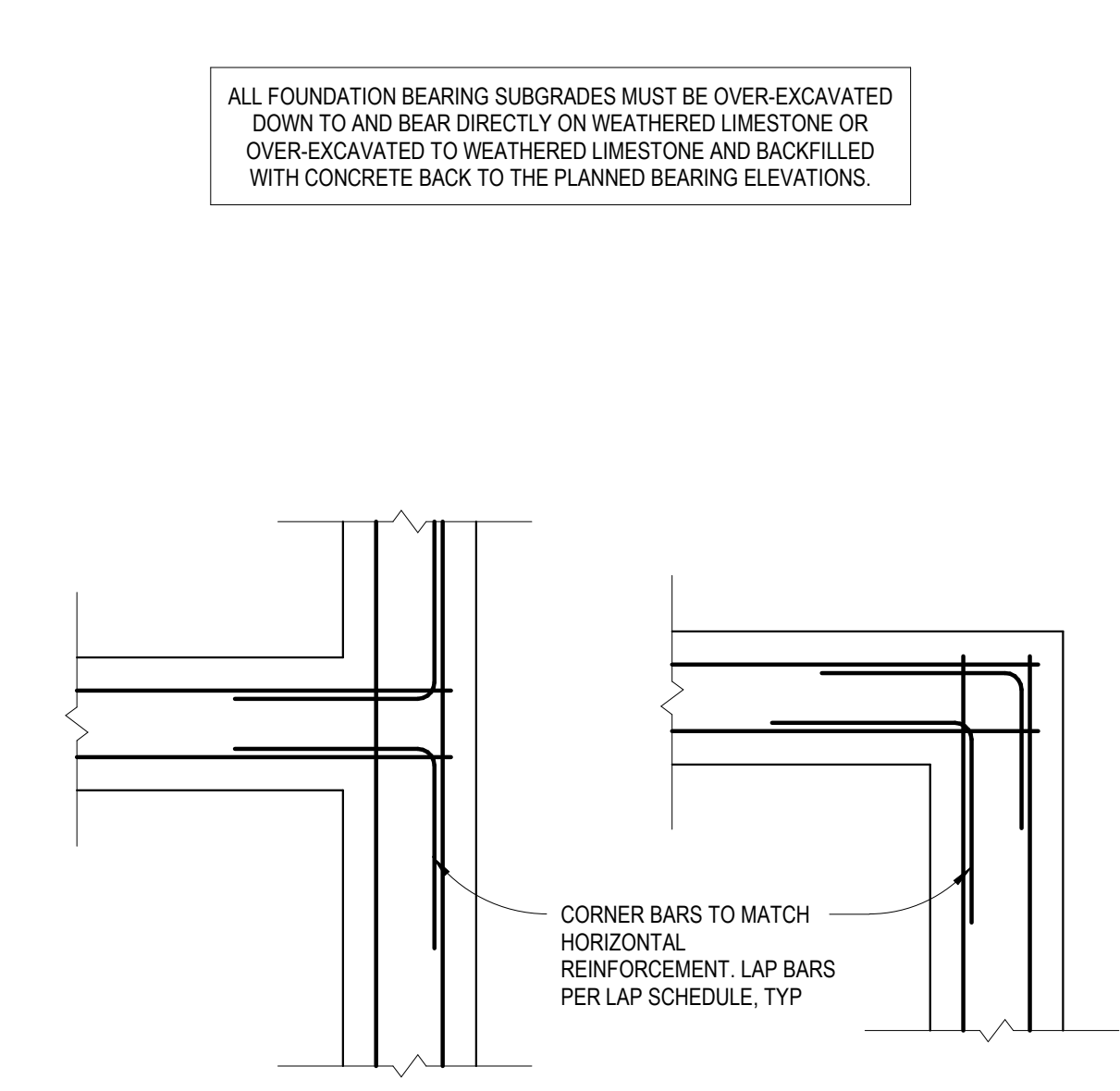
5 TYPICAL COLUMN BLOCKOUT
NO SCALE



3 REINFORCING AT SLAB JOINT
NO SCALE



2 JOINT DETAILS
NO SCALE



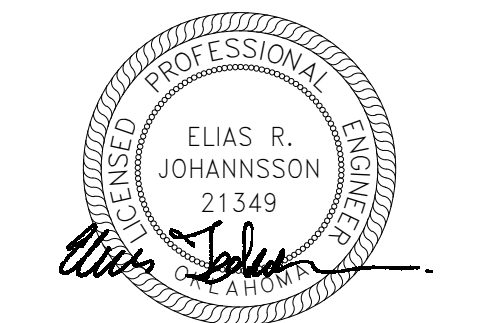
1 CORNER BAR DETAILS
NO SCALE

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FOUNDATION DETAILS

SHEET NUMBER:
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[illegible]

6.2

4"

8"

1'-0"

H

1 1/2" CLR. TYP

1'-3"

2'-0"

3'-3"

4"

2'-0"

1'-4"

(3) - #3 TIES AT 3" OC AT THE TOP OF PILASTER, BALANCE AT 12" OC

CONT WALL REINF THRU PILASTER

(16) #5 VERTICAL W/ STANDARD ACI HOOK INTO FOOTING

PILASTER AT GRIDS H / 6.2

TYPICAL PILASTER

2'-0"

1'-4"

1 1/2" CLR, TYP

1'-0"

1'-0"

2'-0"

(3) #3 TIES AT 3" OC AT TOP OF PILASTER, BALANCE AT 12" OC

CONT. WALL REINF THRU PILASTER

(8) #5 VERTICAL W/ STANDARD ACI HOOK INTO FOOTING

CORNER PILASTER

2'-0"

1'-4"

1 1/2" CLR, TYP

1'-4"

2'-0"

(3) #3 TIES AT 3" OC AT TOP OF PILASTER, BALANCE AT 12" OC

CONT. WALL REINF THRU PILASTER

(8) VERTICAL W/ STANDARD ACI HOOK INTO FOOTING

VENEER, SEE ARCH

COLUMN, SEE PLAN

BLOCKOUT, AS REQ'D

FIN FLR
SEE PLAN

8"

3"

3"

3"

SEE PLAN

PILASTER, SEE DETAIL 5/S502

GROUT BELOW GRADE, TYP

2" CLR

3" CLR

3" CLR

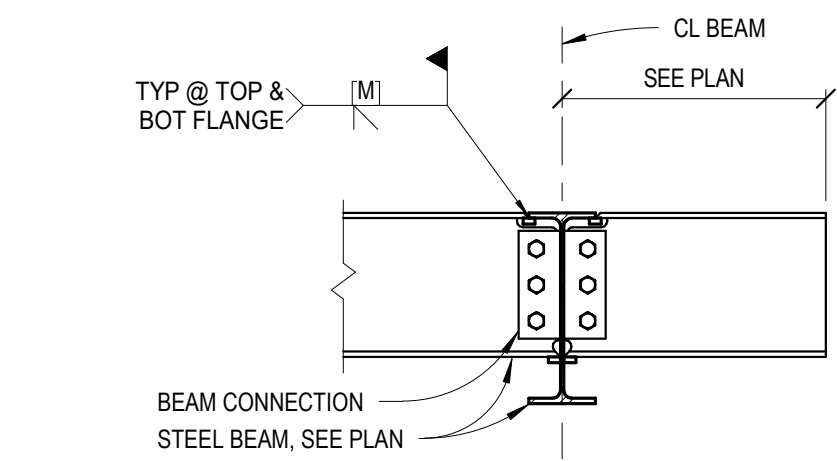
3" CLR

SEE SCHED

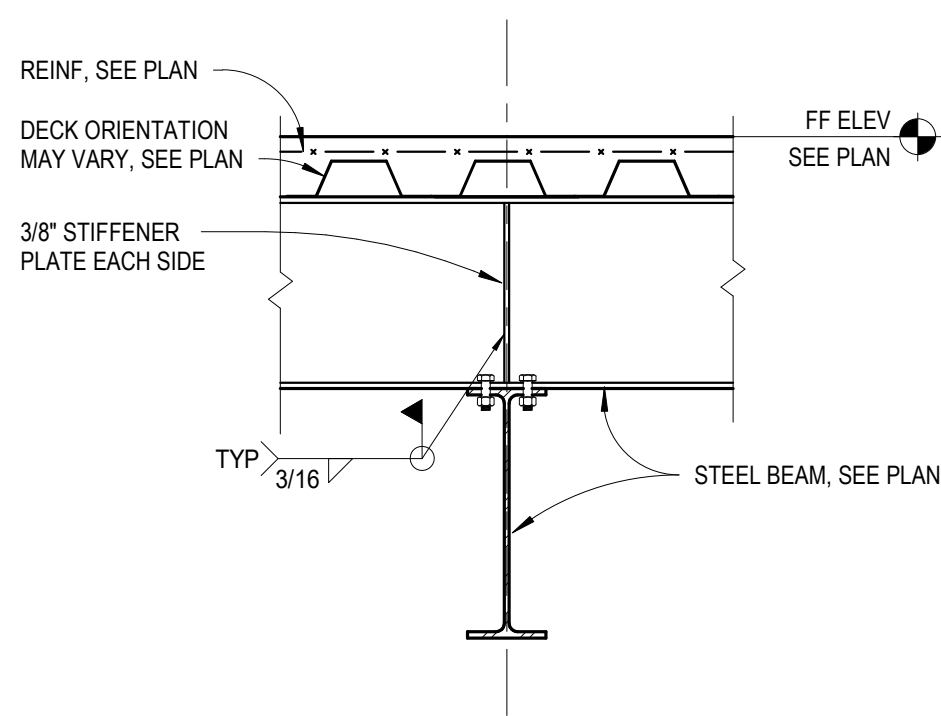
SEE SCHED FOR REINF.

SEE SCHED

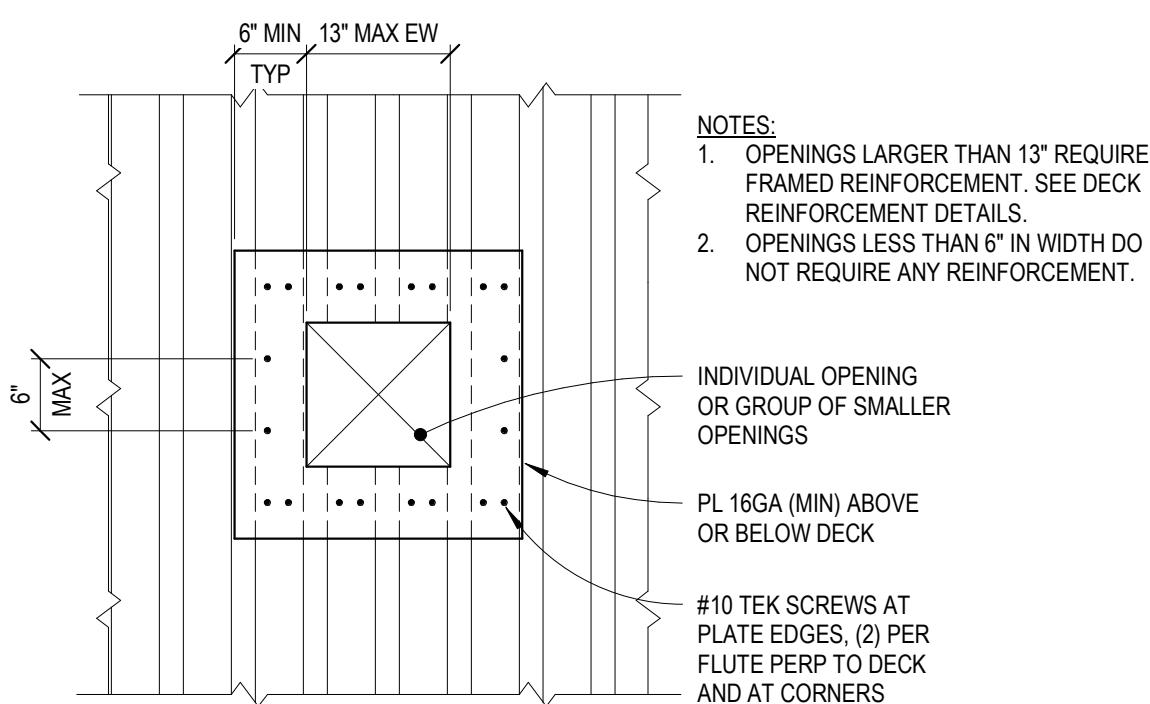
3 FOUNDATION DETAIL



10 TYPICAL CANTILEVERED BEAM CONN
3/4" = 1'-0"



9 TYP POST ON BEAM
3/4" = 1'-0"

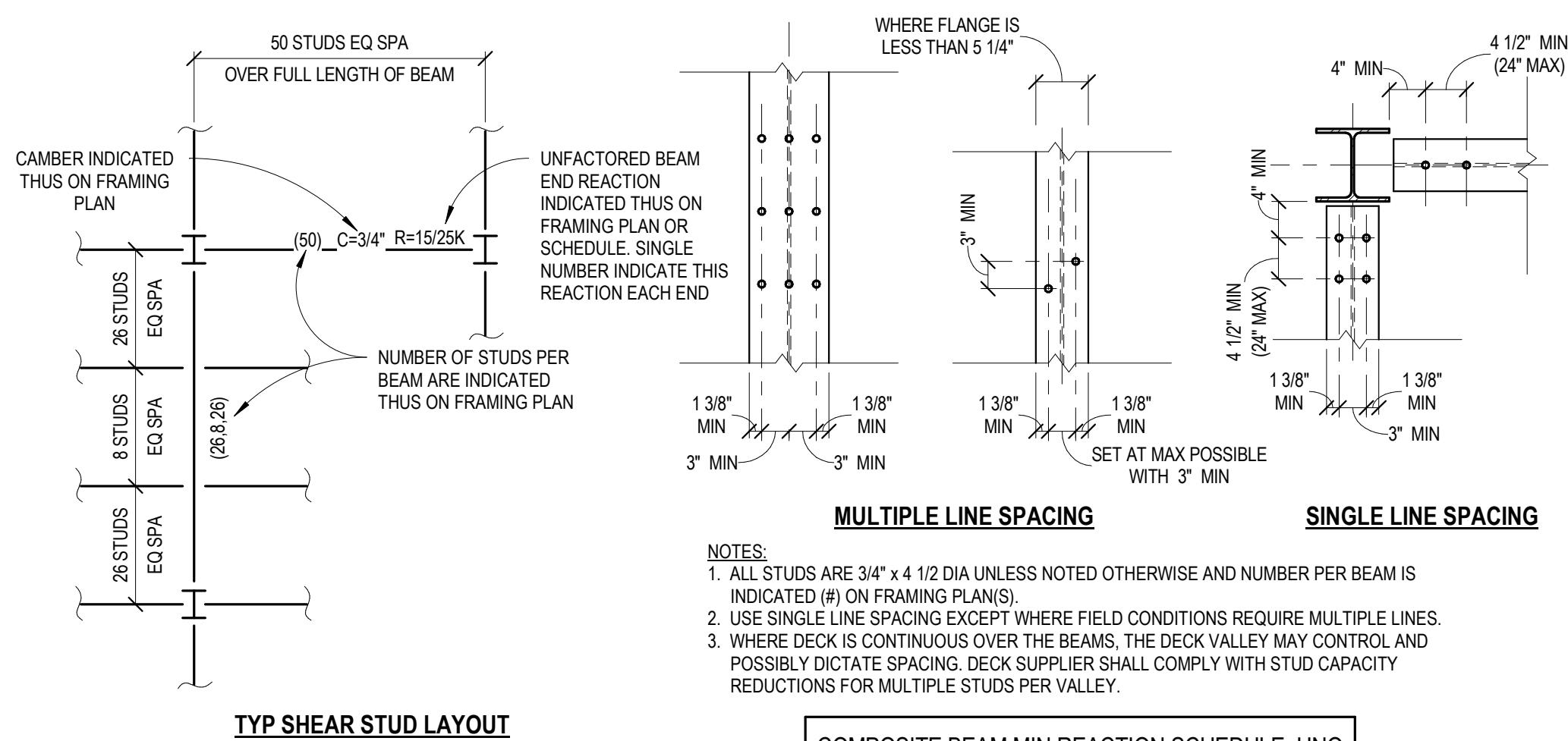


7 TYPICAL SMALL OPENING
3/4" = 1'-0"

BENT PLATE SCHEDULE				
MAX "X"	BENT PL THCK	DBA LENGTH	DBA SPACING	NOTES
0'-6"	10 GA	N/A	N/A	1,2
1'-0"	1/4"	2'-0"	2'-0"	1
1'-11"	3/8"	3'-0"	2'-0"	1

- SCHEDULE NOTES:**
- WHERE HANDRAILS OR PRECAST CONNECTION ARE MADE TO BENT PLATE, 1/4" MINIMUM THICKNESS SHALL BE MAINTAINED AND DBA'S PROVIDED.
 - STANDARD ANGLE SIZES MAY BE USED IN LIEU OF BENT PLATES WHEN GEOMETRY PERMITS.
 - WHERE CURVED BENT PLATE OCCURS, USE TWO FLAT PLATES WELDED AT JOINT WITH 3/16" FILLET WELD (3@12)

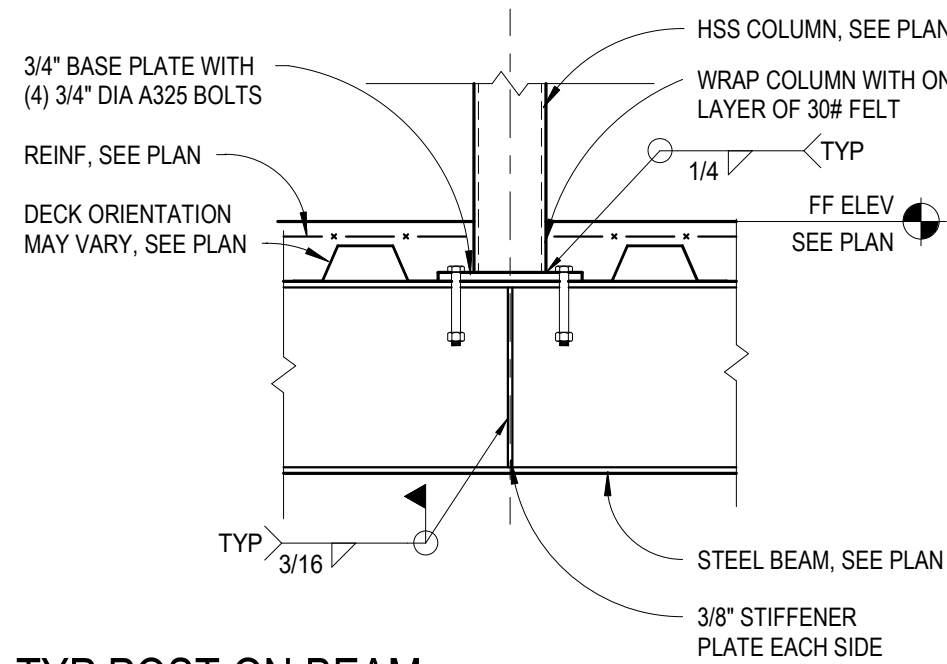
3 TYP EDGE OF SLAB
3/4" = 1'-0"



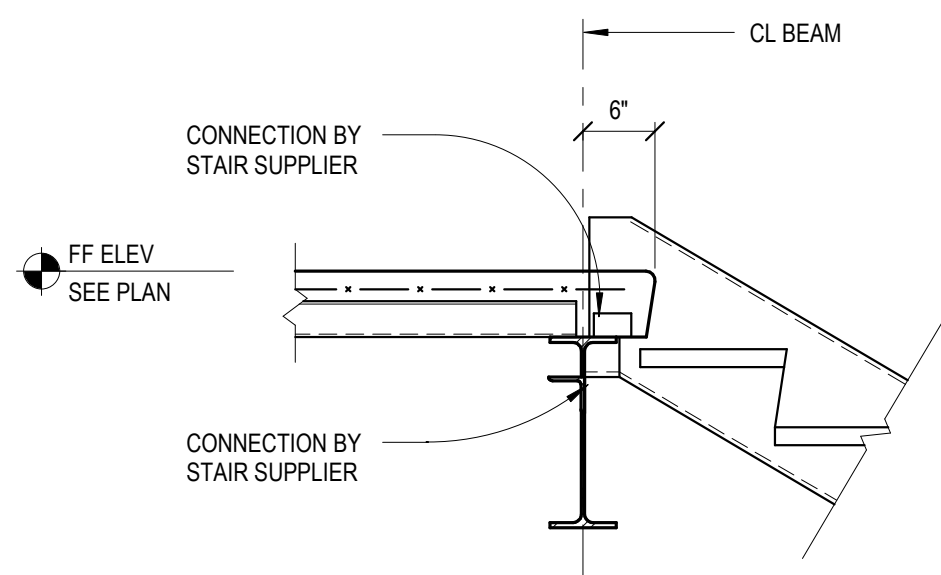
COMPOSITE BEAM MIN REACTION SCHEDULE, UNO		
BEAM SIZE	REACTION (K)	MIN FASTENERS
W8,W10	20.4	(2) 3/4" DIA A25 BOLTS
W12,W14	31.9	(3) 3/4" DIA A25 BOLTS
W16	42.4	(4) 3/4" DIA A25 BOLTS
W18	53.0	(5) 3/4" DIA A25 BOLTS
W21,W24	63.6	(6) 3/4" DIA A25 BOLTS

- NOTES:**
- ALL STUDS ARE 3/4" x 4 1/2 DIA UNLESS NOTED OTHERWISE AND NUMBER PER BEAM IS INDICATED (B) ON FRAMING PLANS.
 - USE SINGLE LINE SPACING EXCEPT WHERE FIELD CONDITIONS REQUIRE MULTIPLE LINES.
 - WHERE DECK IS CONTINUOUS OVER THE BEAMS, THE DECK VALLEY MAY CONTROL AND POSSIBLY DICTATE SPACING. DECK SUPPLIER SHALL COMPLY WITH STUD CAPACITY REDUCTIONS FOR MULTIPLE STUDS PER VALLEY.

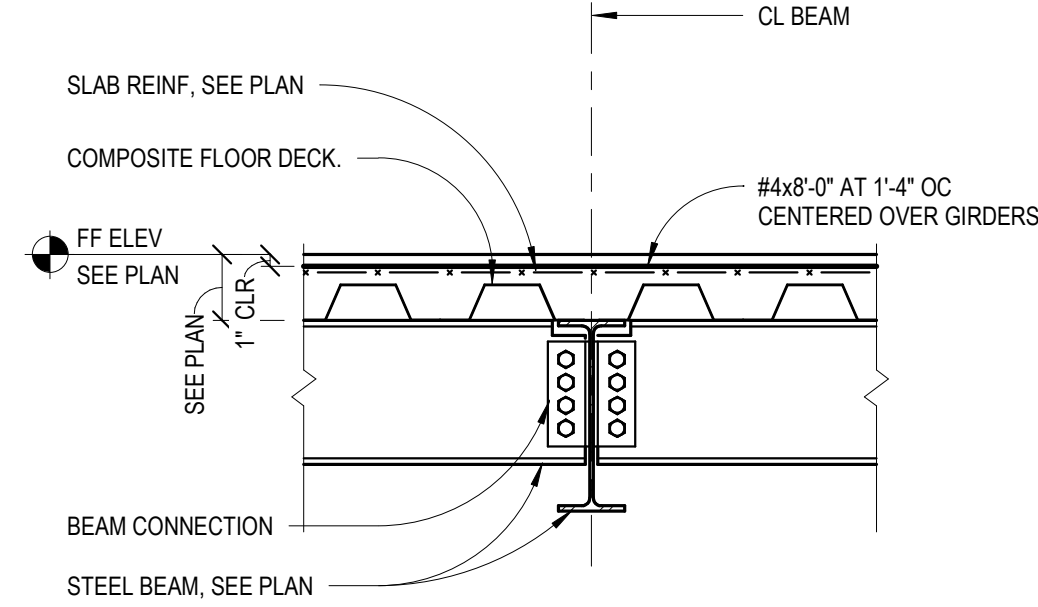
8 DETAIL - TYPICAL SHEAR STUD LAYOUT
3/4" = 1'-0"



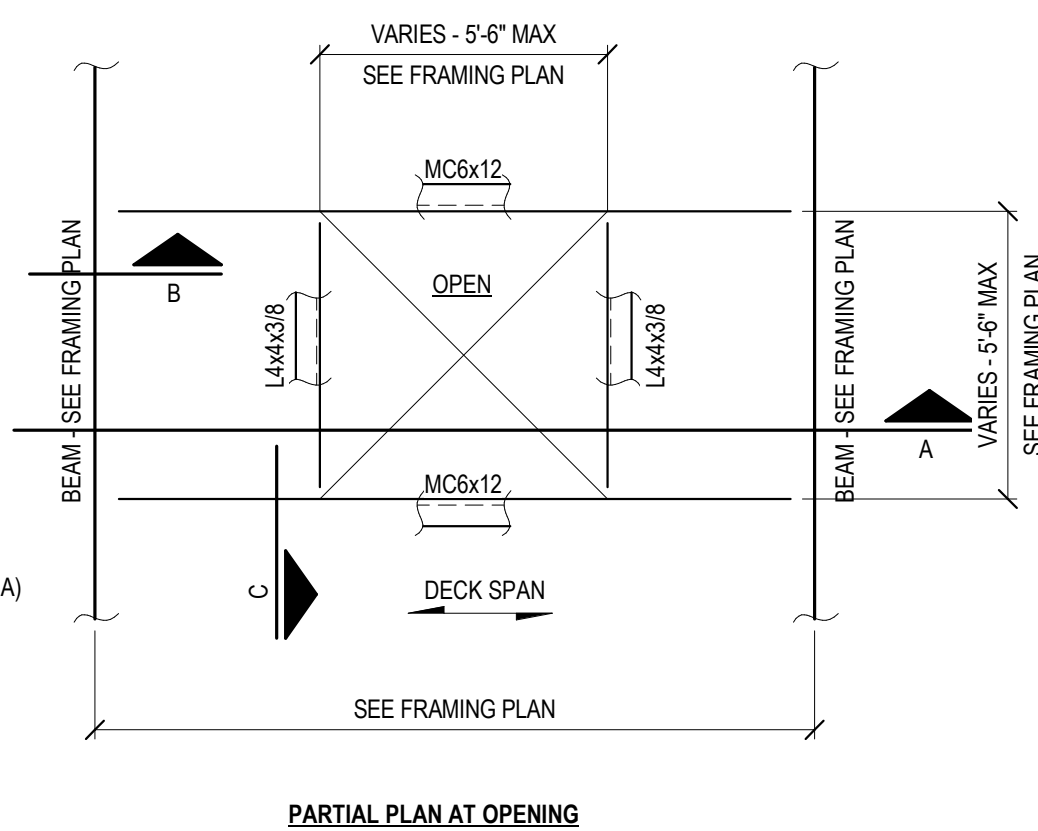
6 TYP POST ON BEAM
3/4" = 1'-0"



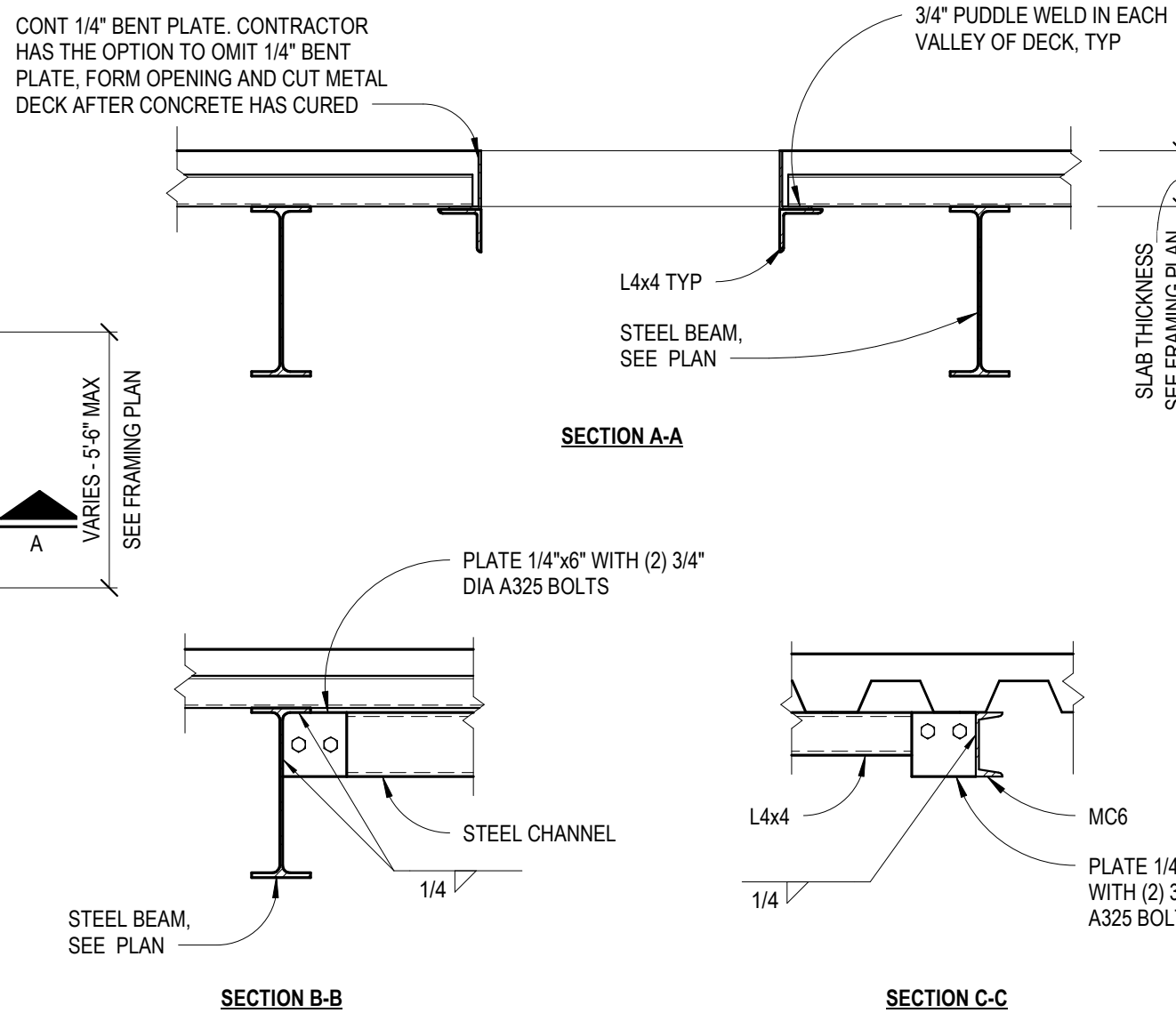
5 TYP STAIR CONN
3/4" = 1'-0"



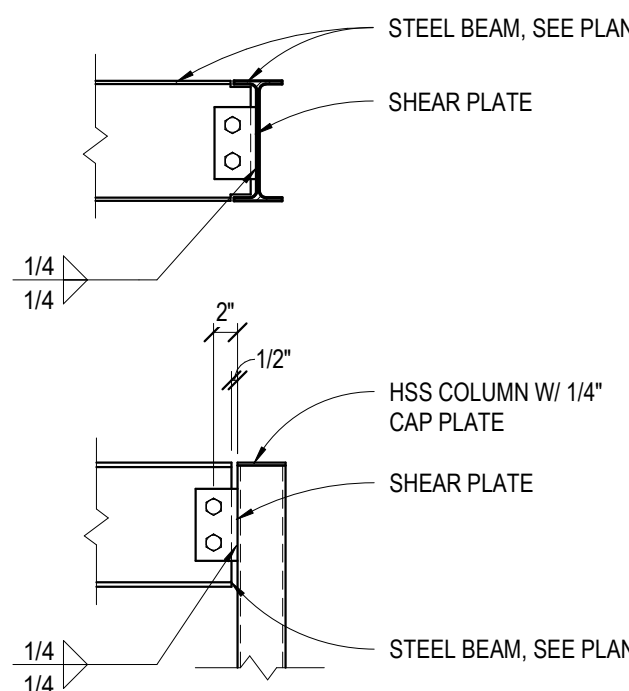
4 TYP INTERIOR GIRDER
3/4" = 1'-0"



2 TYP FRAMED OPENING
3/4" = 1'-0"

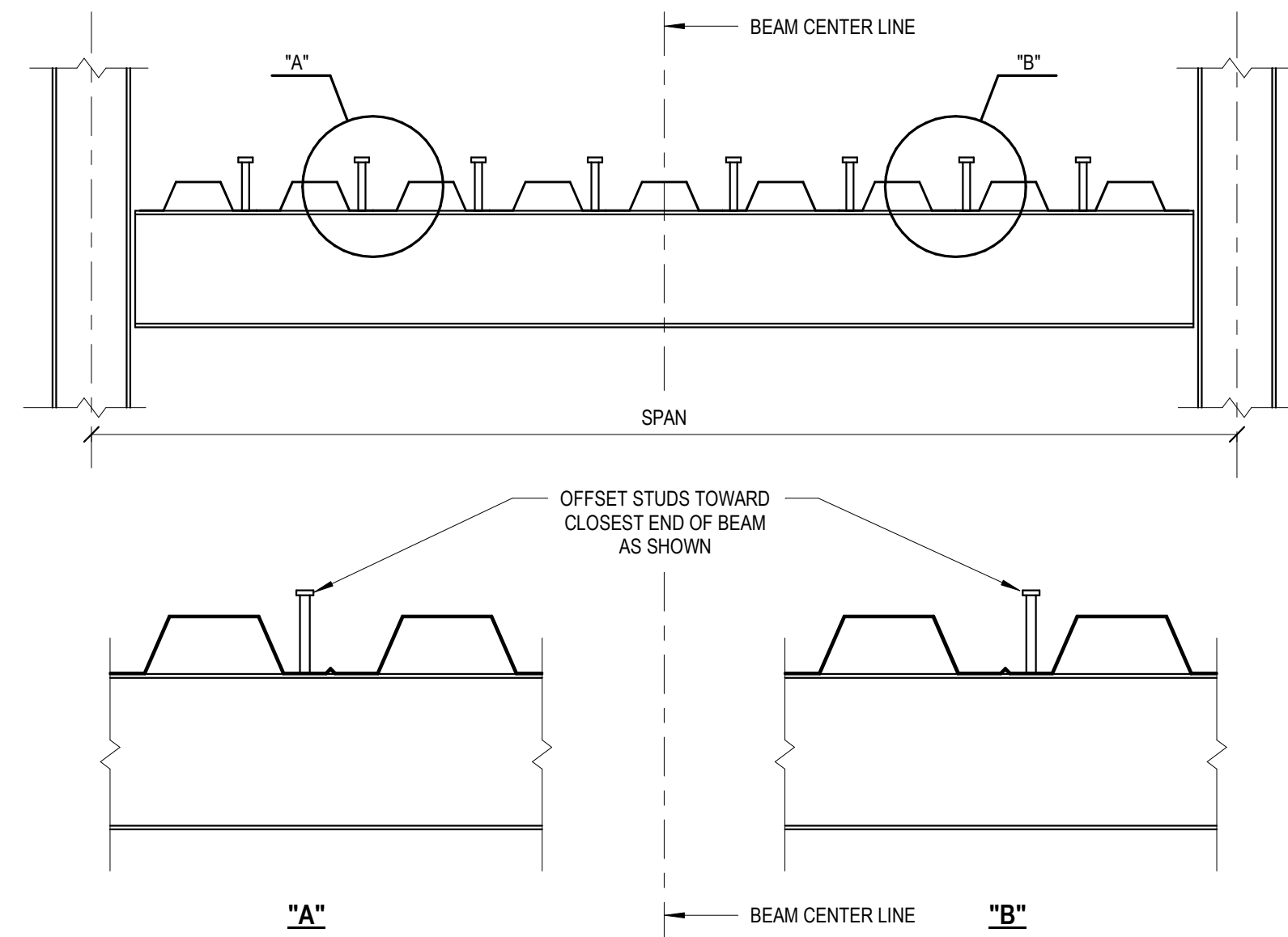


1 TYP BEAM CONN DETAIL
3/4" = 1'-0"



BOLT SCHEDULE		
SECTION	SHEAR PLATE	FASTENERS
W8	3/8x3 1/2x0'-6"	(2) 3/4" DIA A25 BOLTS
W10	3/8x3 1/2x0'-6"	(2) 3/4" DIA A25 BOLTS
W12	3/8x3 1/2x0'-9"	(3) 3/4" DIA A25 BOLTS
W14	3/8x3 1/2x0'-9"	(3) 3/4" DIA A25 BOLTS
W16	3/8x3 1/2x1'-0"	(4) 3/4" DIA A25 BOLTS
W18	3/8x3 1/2x1'-3"	(5) 3/4" DIA A25 BOLTS
W21	3/8x3 1/2x1'-6"	(6) 3/4" DIA A25 BOLTS
W24	3/8x3 1/2x1'-6"	(7) 3/4" DIA A25 BOLTS
W27	3/8x3 1/2x2'-0"	(8) 3/4" DIA A25 BOLTS

STUD PLACEMENT:
A. FOR BEAMS WITH DECK SPAN PERPENDICULAR TO THE BEAM
1. STUD DIAGRAM



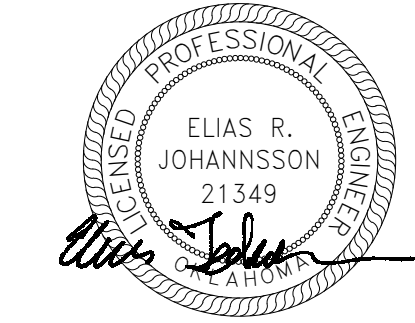
- IF TOTAL QUANTITY OF STUDS EXCEEDS SPAN LENGTHS IN FEET PLACE A SINGLE ROW OF STUDS AT 12" OC AND PLACE REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF BEAM AT 12" OC IN A SECOND ROW OF STUDS. SEE DETAIL "A".
- IF TOTAL QUANTITY OF STUDS IS LESS THAN THE SPAN LENGTH IN FEET PLACE STUDS AT 24" OC AND PLACE REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF BEAM AT VACANT DECK FLUTE LOCATIONS AT 24" OC.
- IN ALL CASES, THERE SHALL BE AN EQUAL NUMBER OF SHEAR STUDS ON EACH SIDE OF THE BEAM CENTER LINE.

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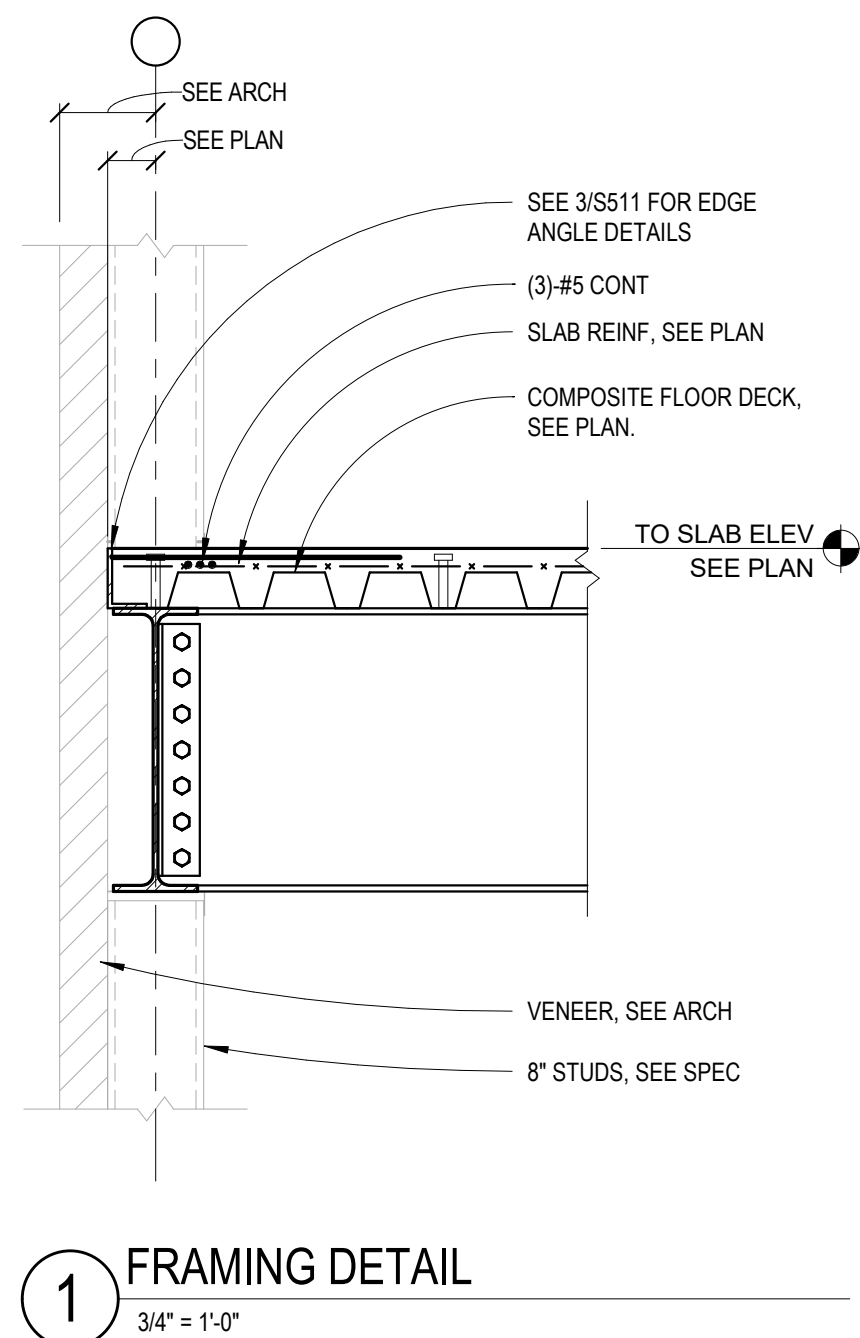
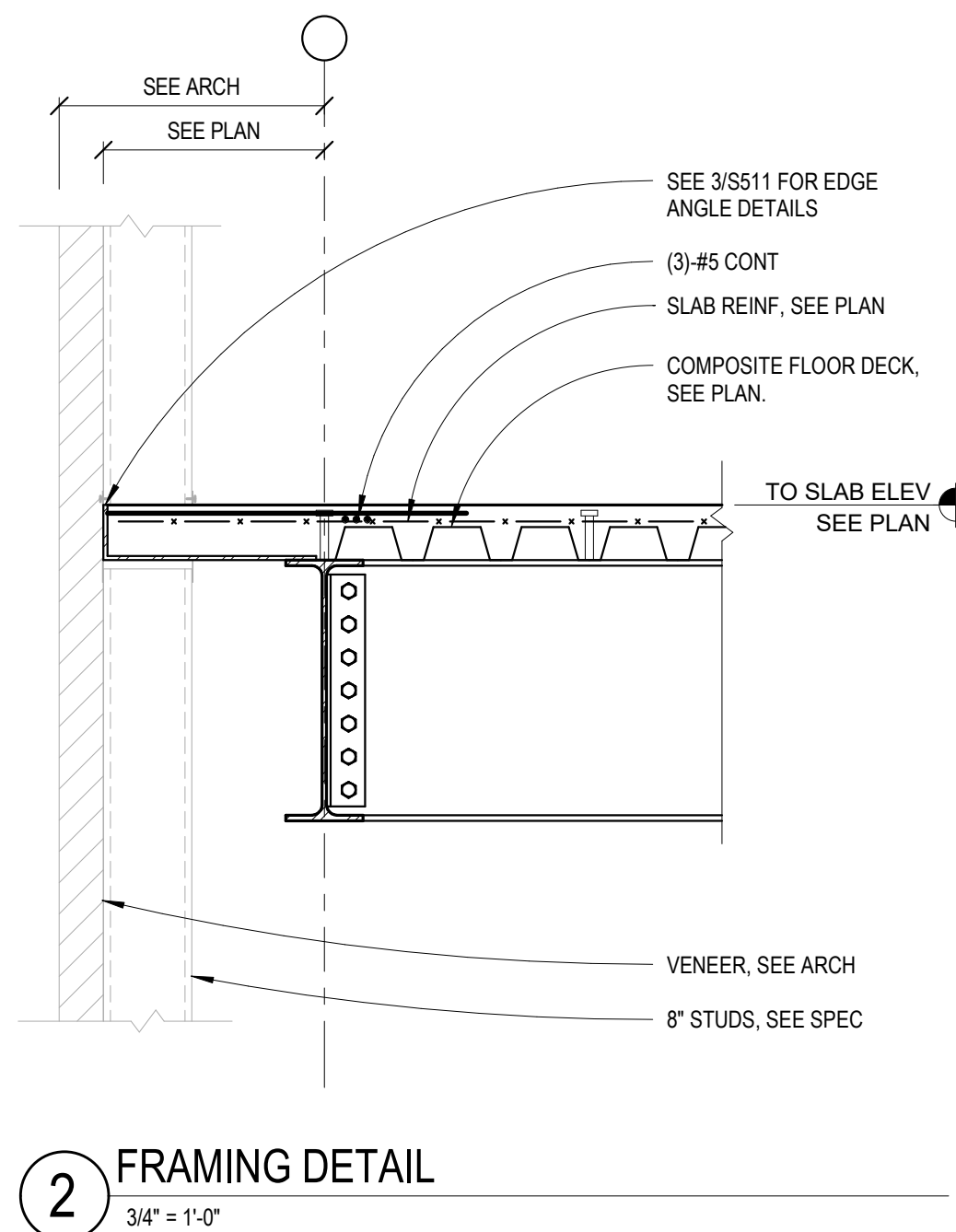
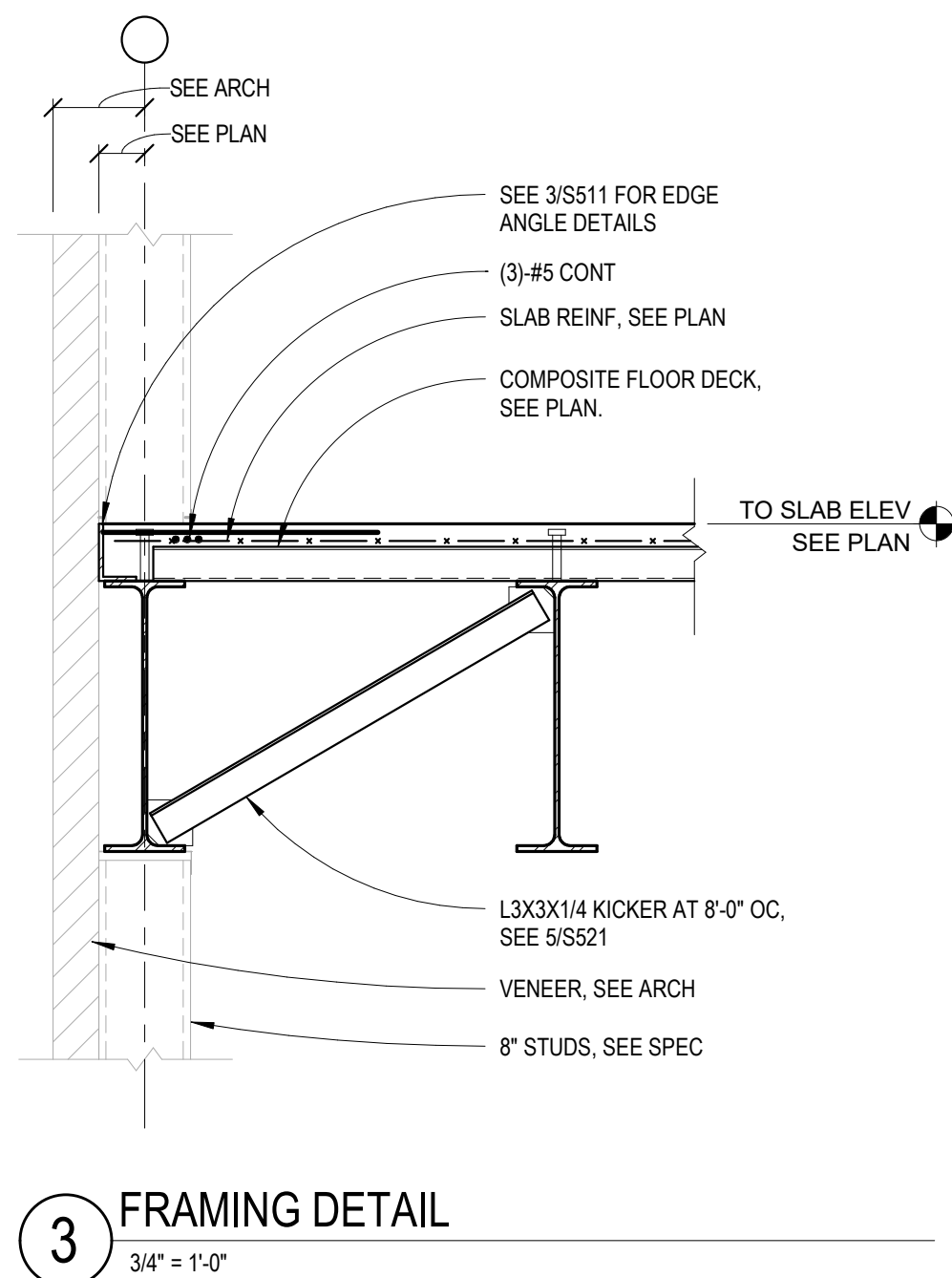
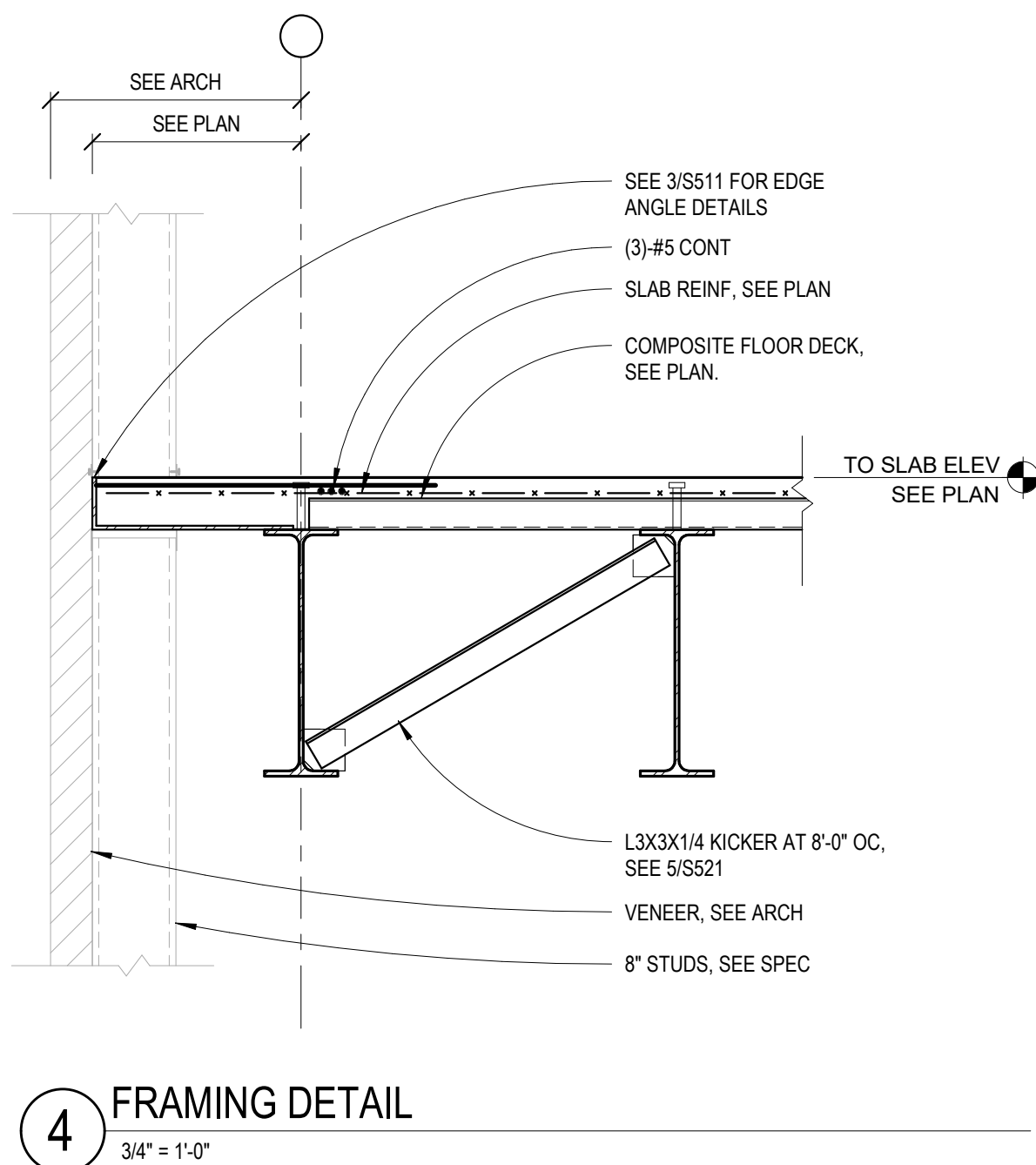
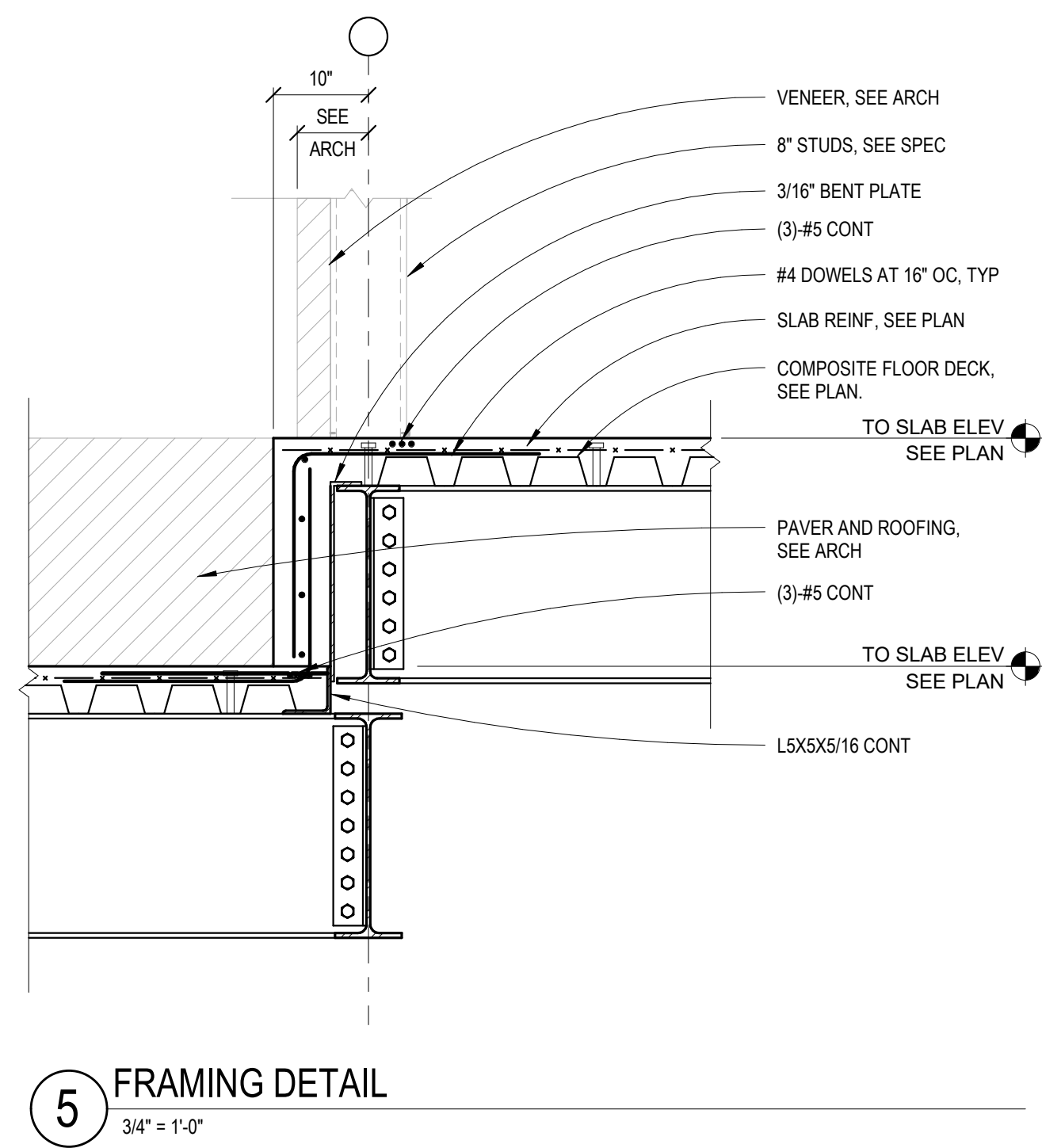
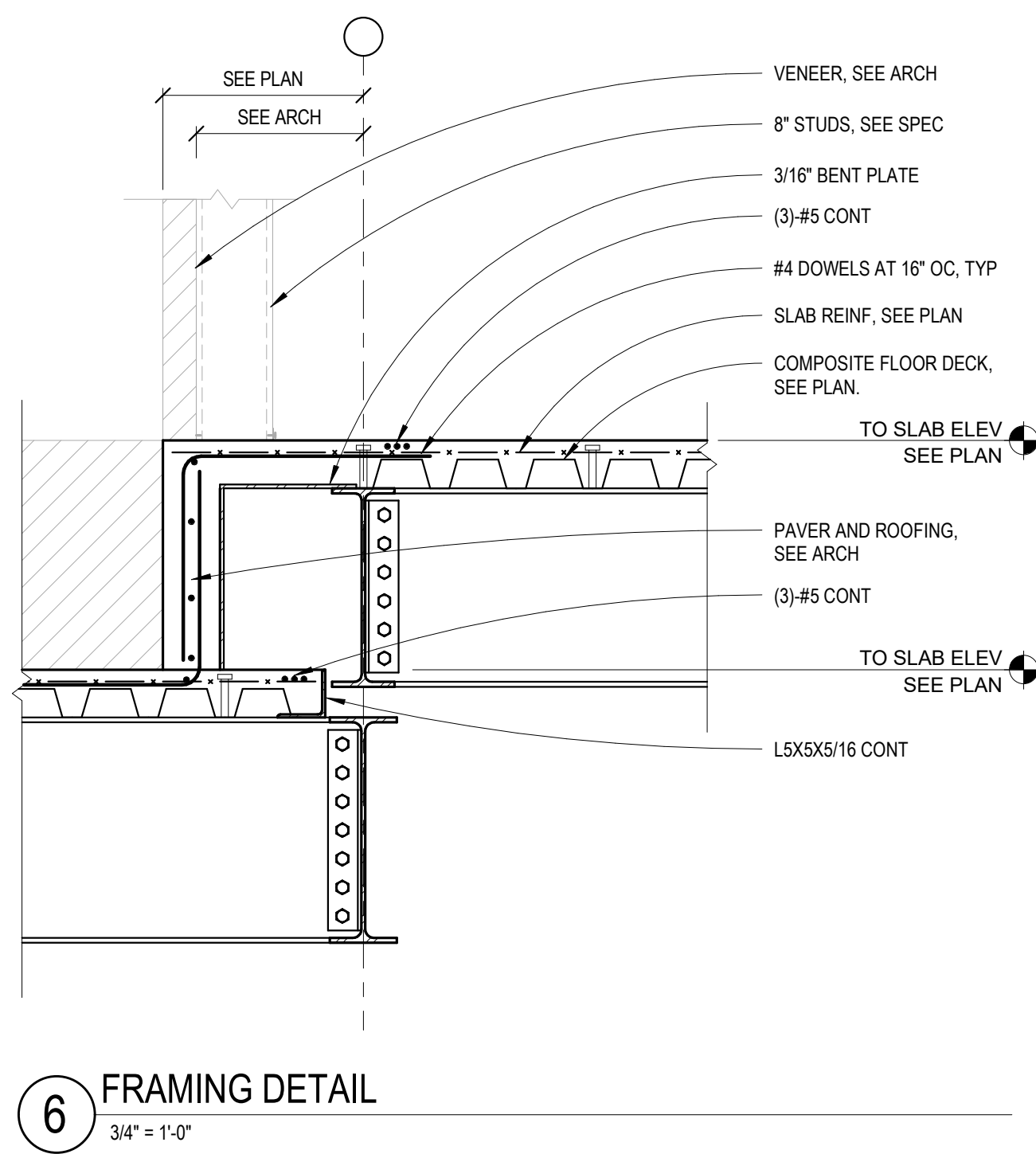
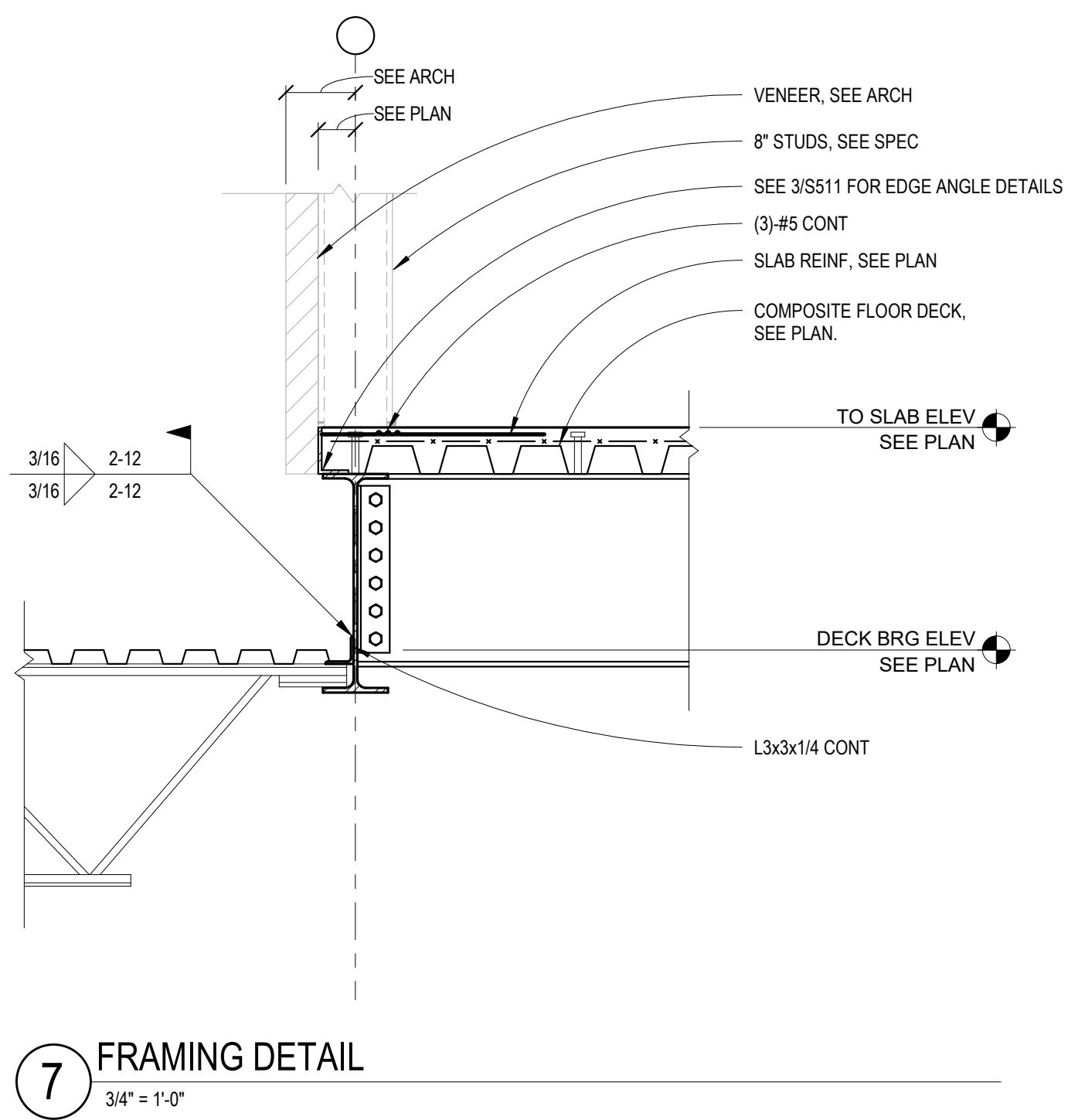
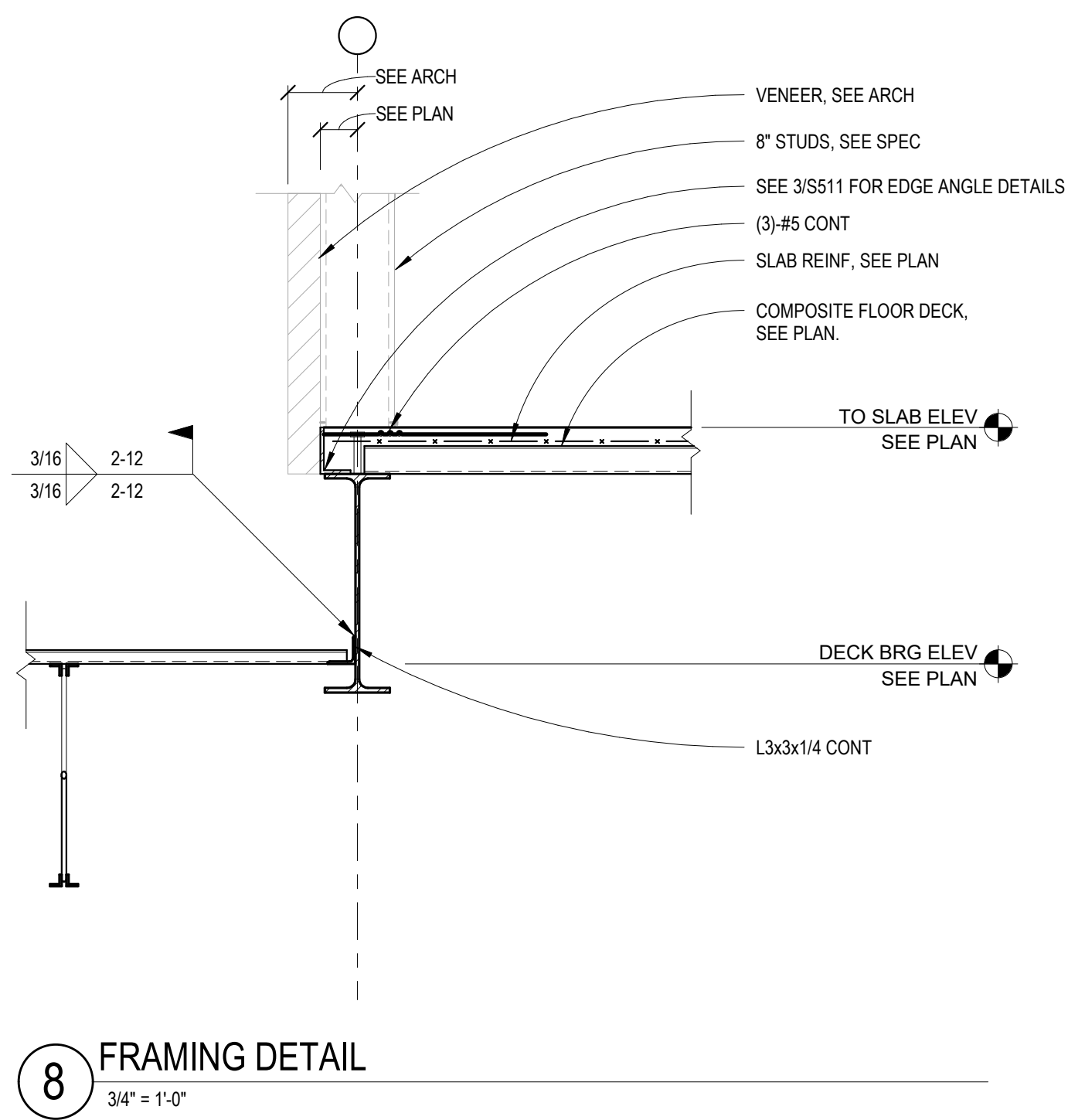
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ELIAS R. JOHANSSON
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Professional Engineer
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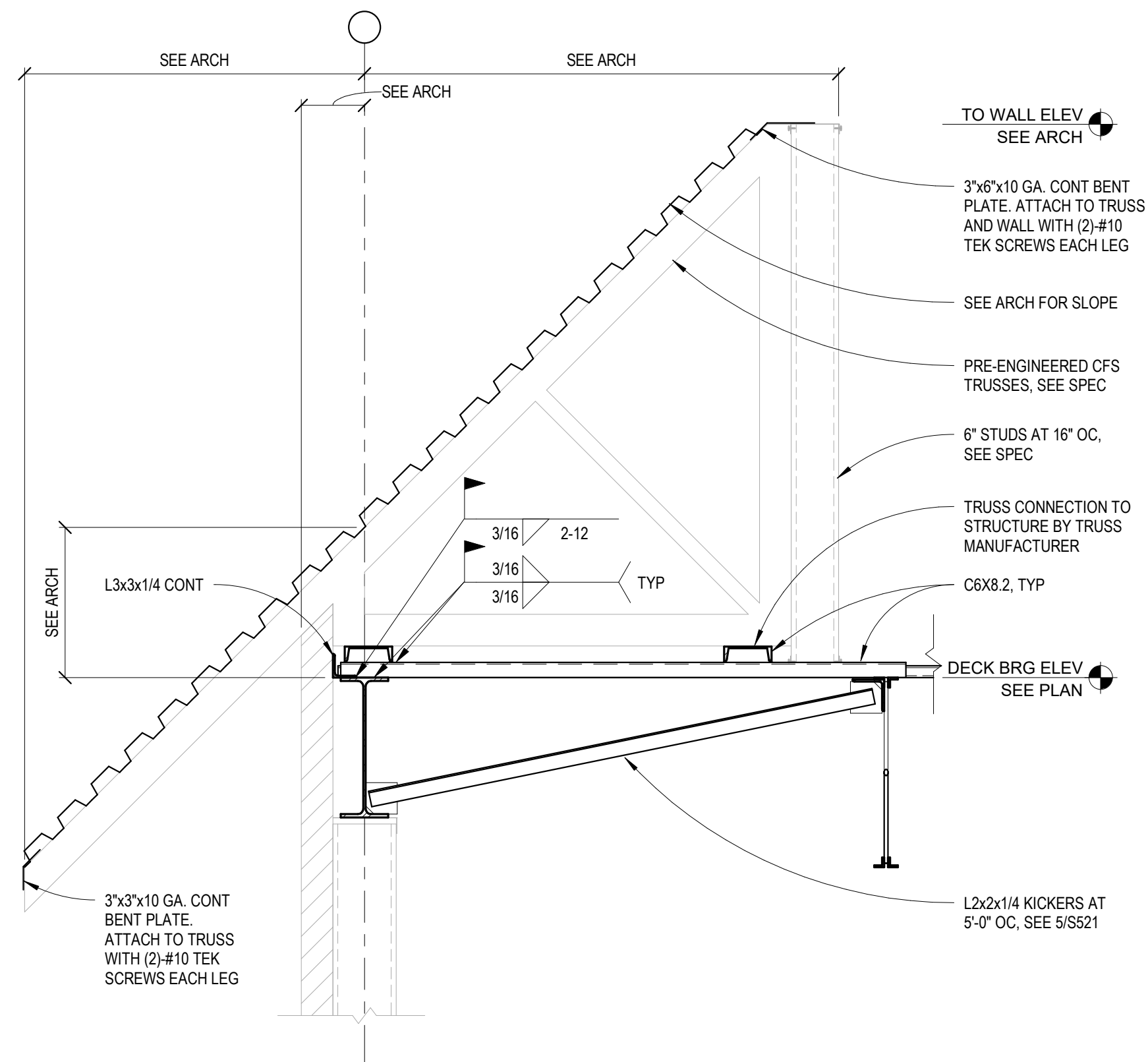
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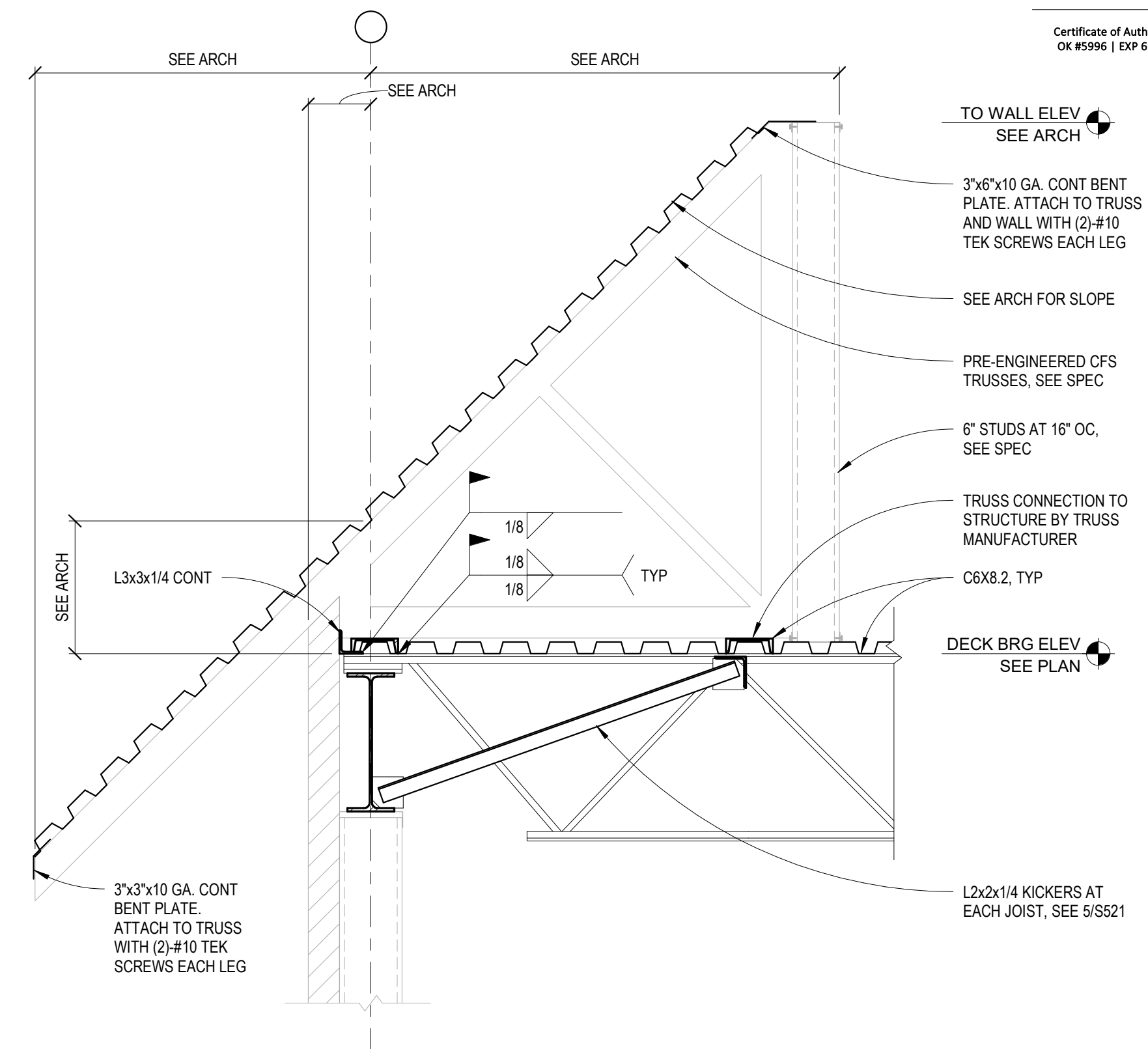
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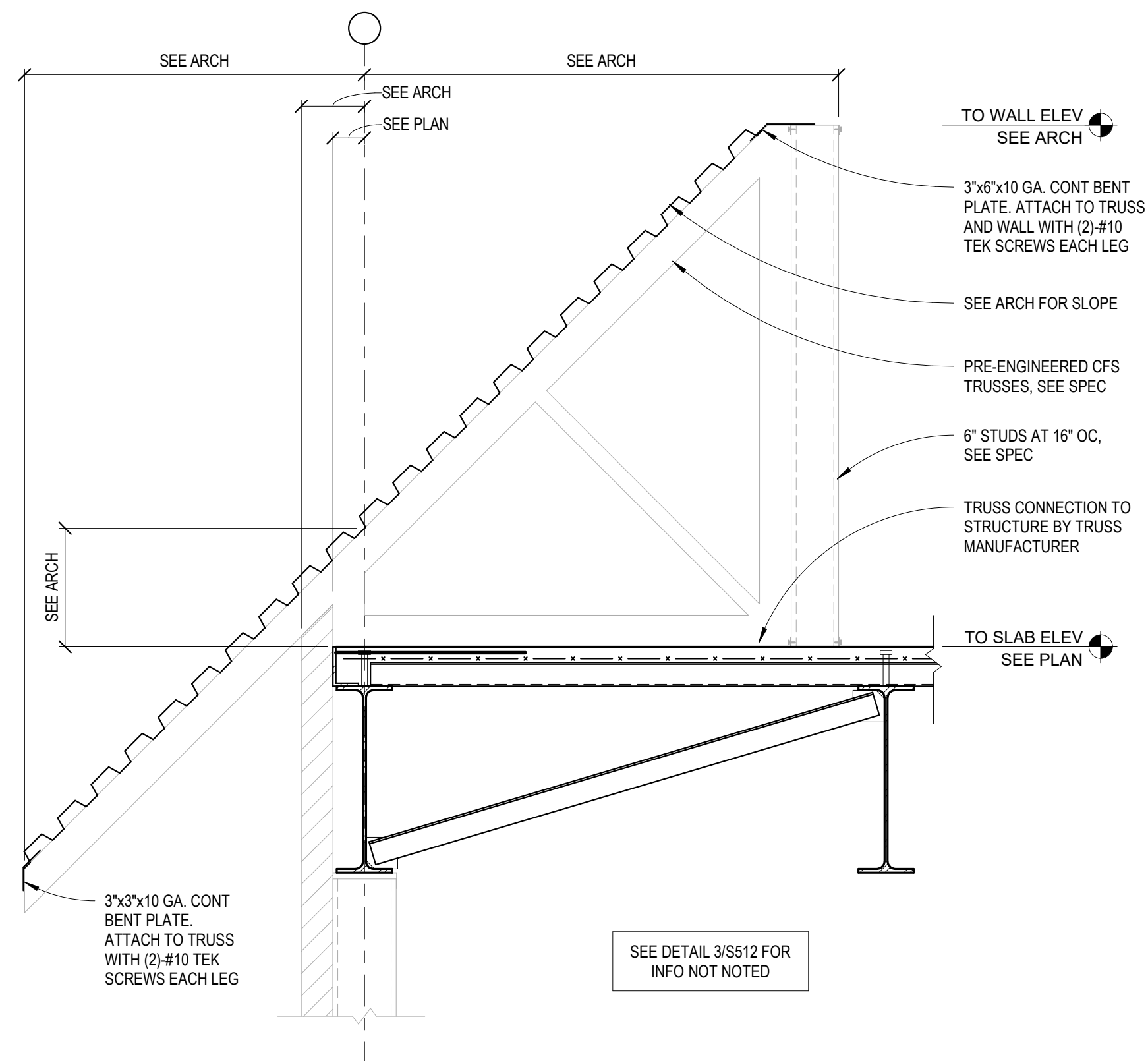
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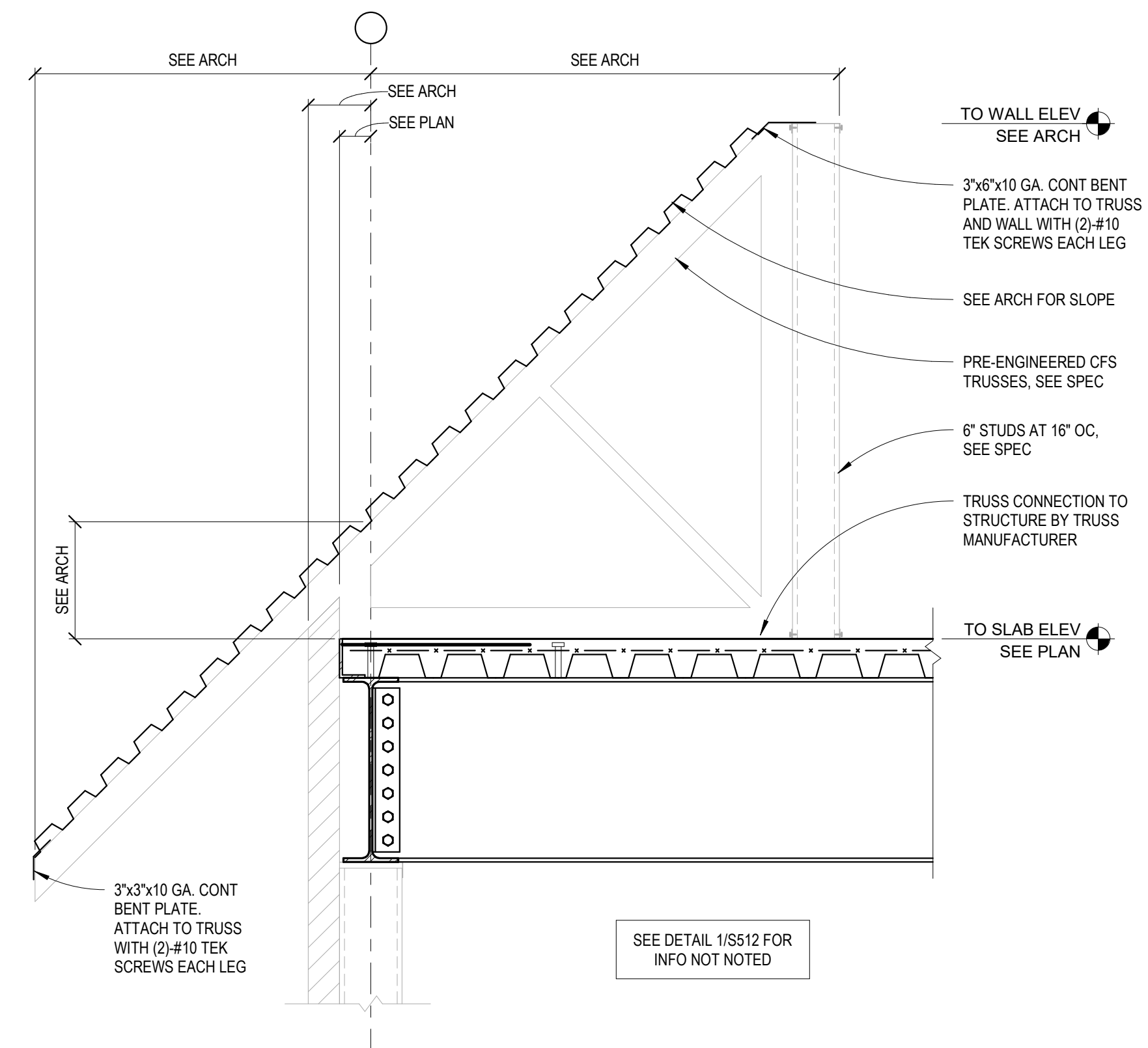
5 FRAMING DETAIL
3/4" = 1'-0"



4 FRAMING DETAIL



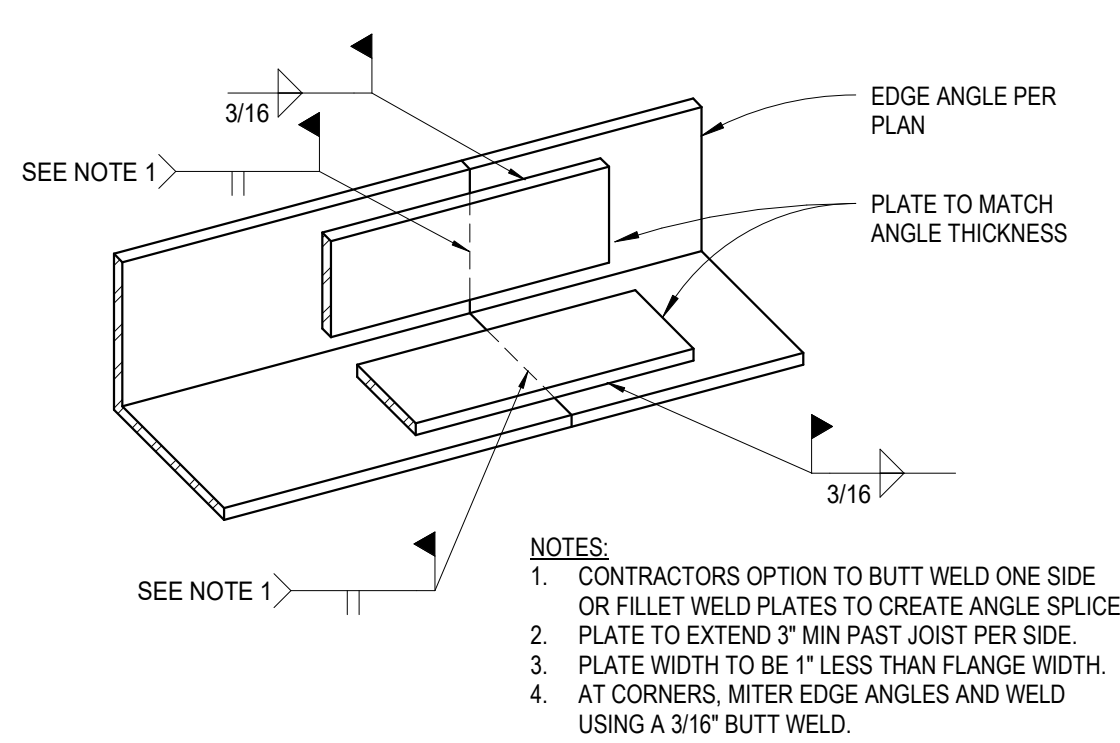
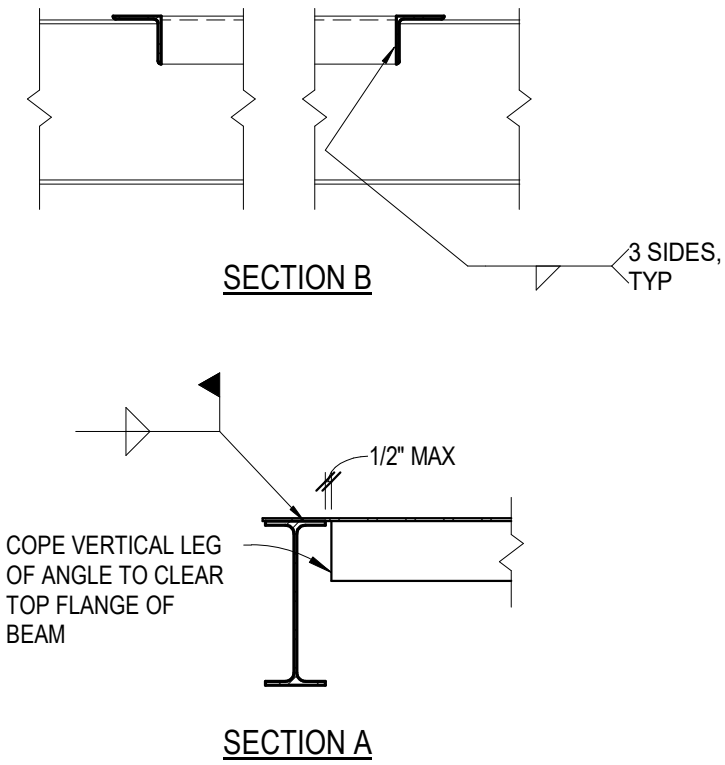
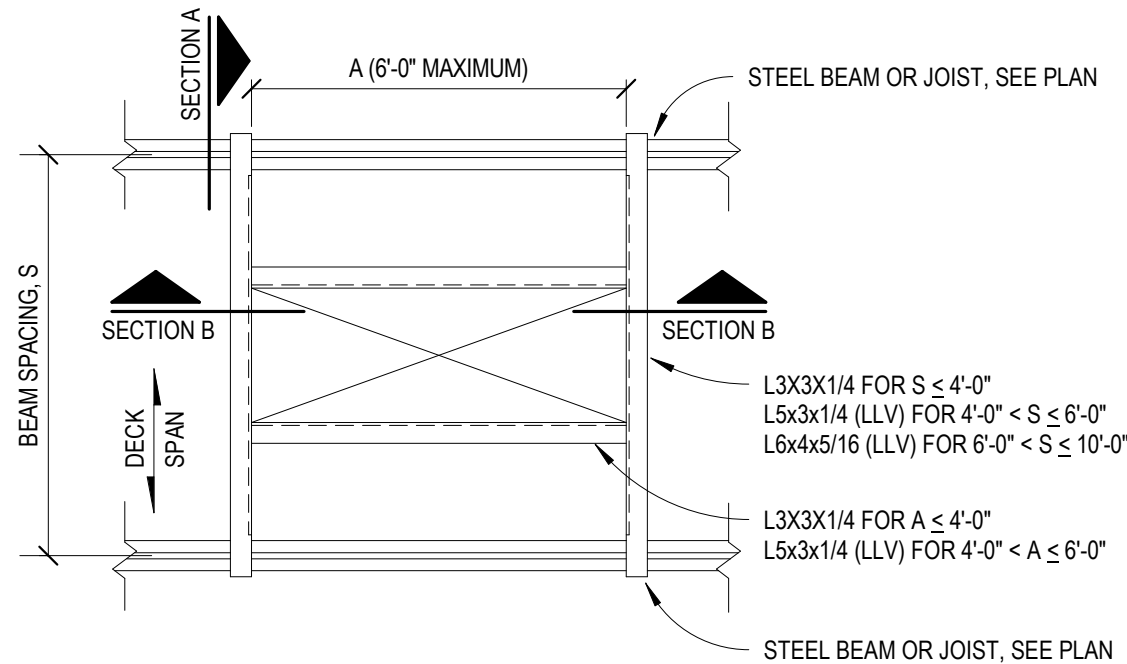
2 FRAMING DETAIL



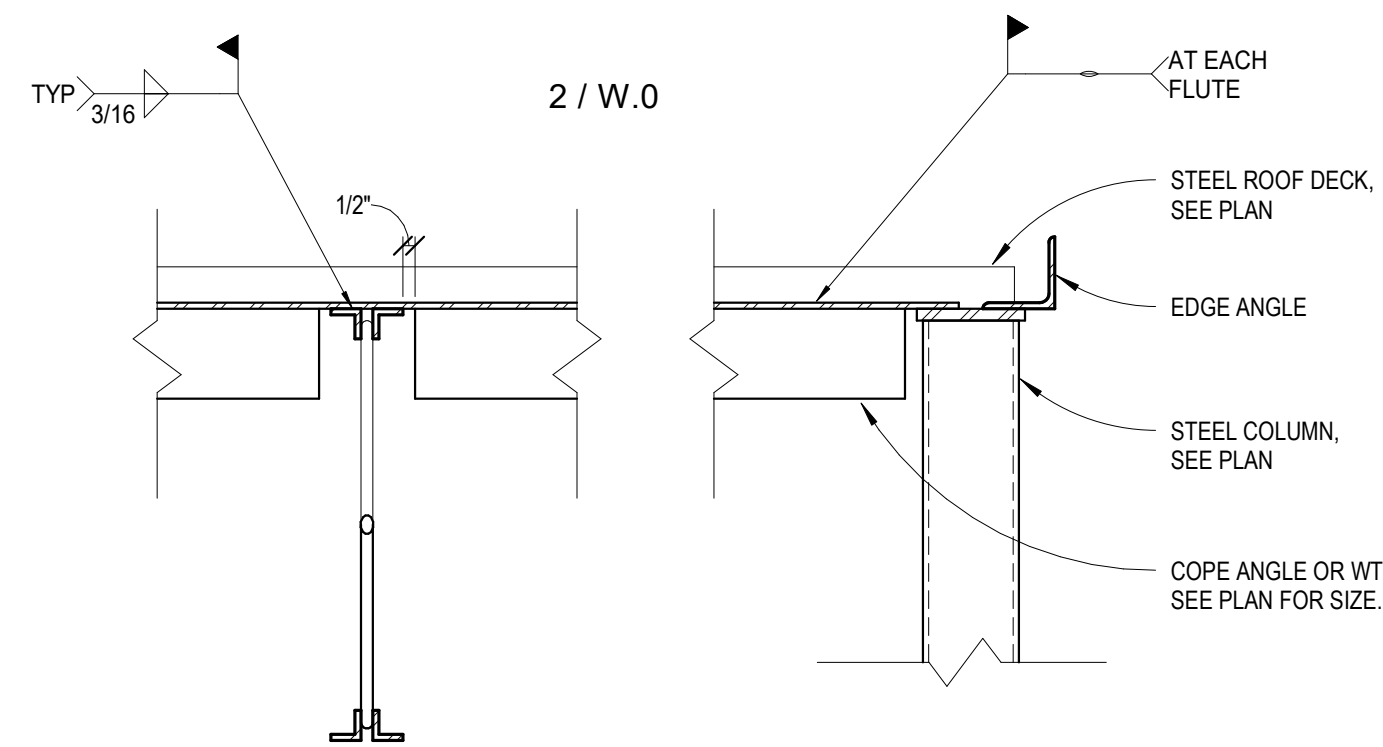
1 FRAMING DETAIL
3/4" = 1'-0"

- NOTES:
- COORDINATE OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - ROOF DECK SHALL BE CONTINUOUS OVER FRAMED OPENING. DO NOT CUT OPENINGS UNTIL IMMEDIATELY BEFORE THEY ARE NEEDED.
 - VERIFY FRAMING WITH ENGINEER WHERE DIMENSIONS EXCEED MAXIMUM DIMENSIONS SHOWN IN THIS DETAIL.

CONTRACTOR OPTION: IT IS PERMISSIBLE TO SUBSTITUTE STEEL FRAMING FOR ROOF FRAMING OPENING AS SHOWN WITH QUICK FRAME OR APPROVED EQUAL. SUBMIT ENGINEERING DATA FOR PRODUCT LOAD CAPACITY FOR APPROVAL. JOIST STIFFENER ANGLE PER 3/5521 IS REQUIRED FOR CONCENTRATED LOADS OUTSIDE OF PANEL POINTS.



- NOTES:
- CONTRACTORS OPTION TO BUTT WELD ONE SIDE OR FILLET WELD PLATES TO CREATE ANGLE SPICE
 - PLATE TO EXTEND 3" MIN PAST JOIST PER SIDE.
 - PLATE WIDTH TO BE 1" LESS THAN FLANGE WIDTH.
 - AT CORNERS, MITER EDGE ANGLES AND WELD USING A 3/16" BUTT WELD.



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9 TYPICAL FRAMED OPENING THRU ROOF DECK

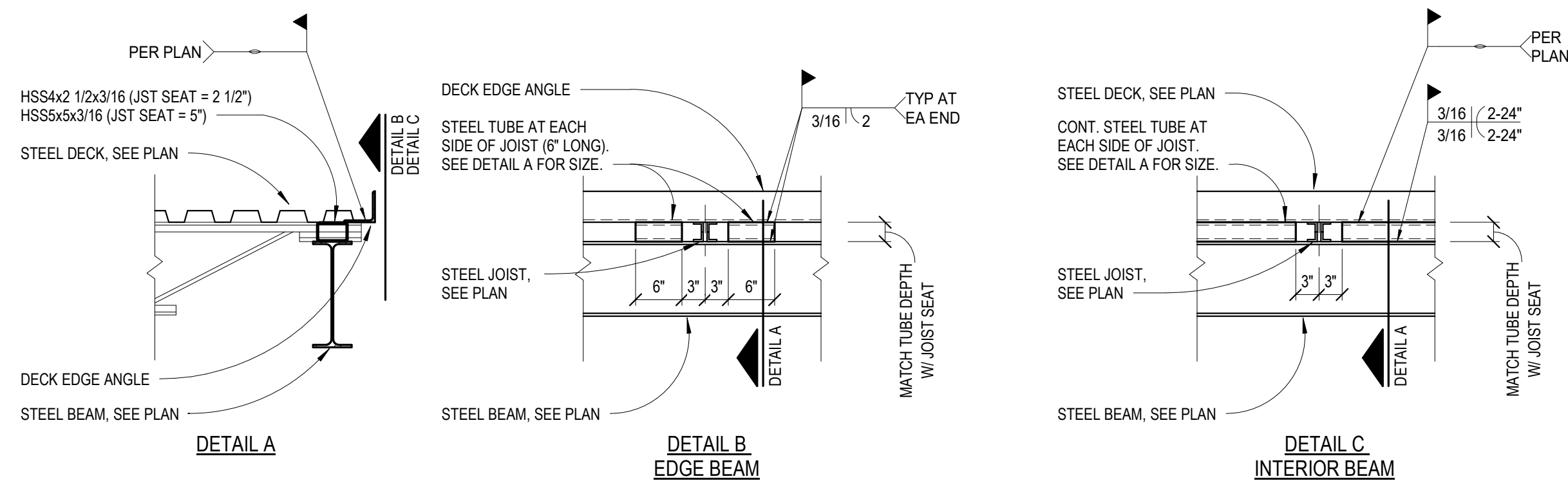
NO SCALE

8 TYPICAL EDGE ANGLE SPLICE

NO SCALE

7 TYP DRAG MEMBER CONNECTION

NO SCALE

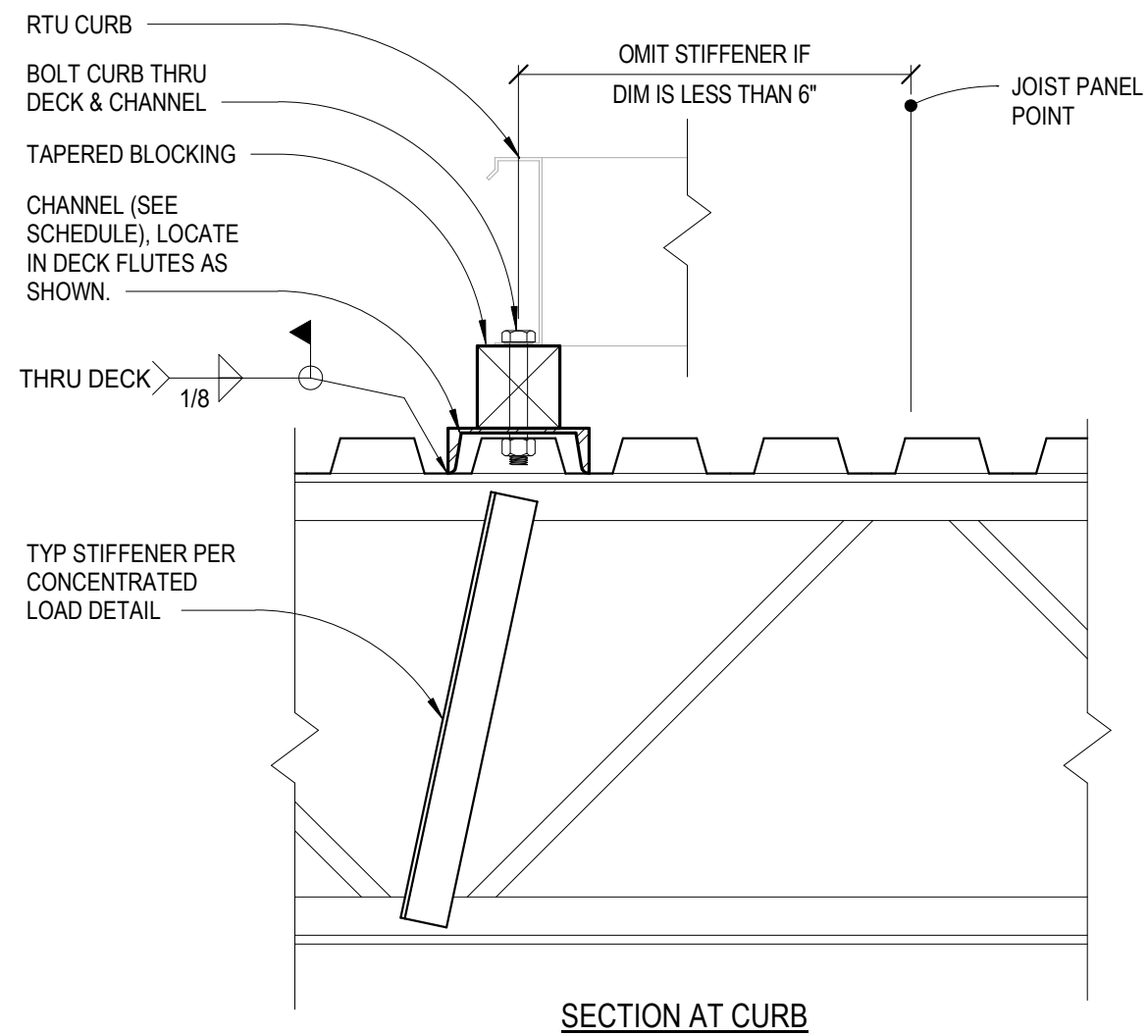
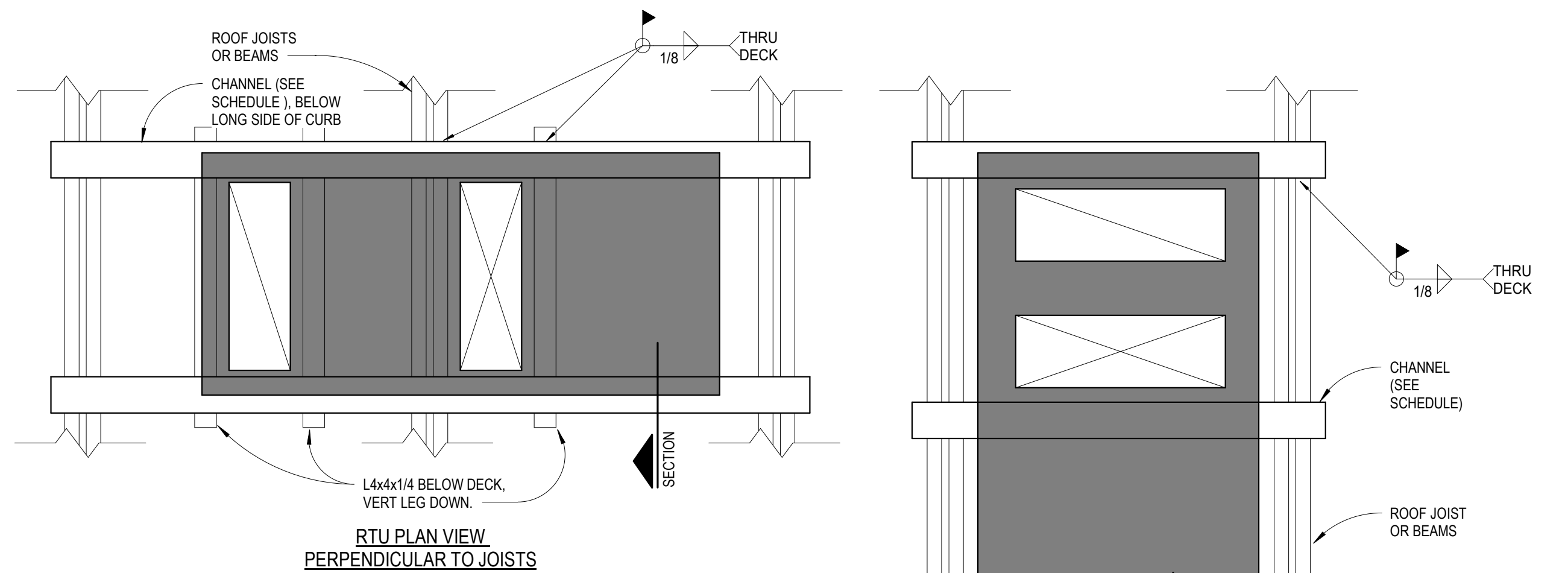


6 DIAPHRAGM SHEAR COLLECTOR

NO SCALE

5 TYPICAL WIDE FLANGE BEAM BRACING

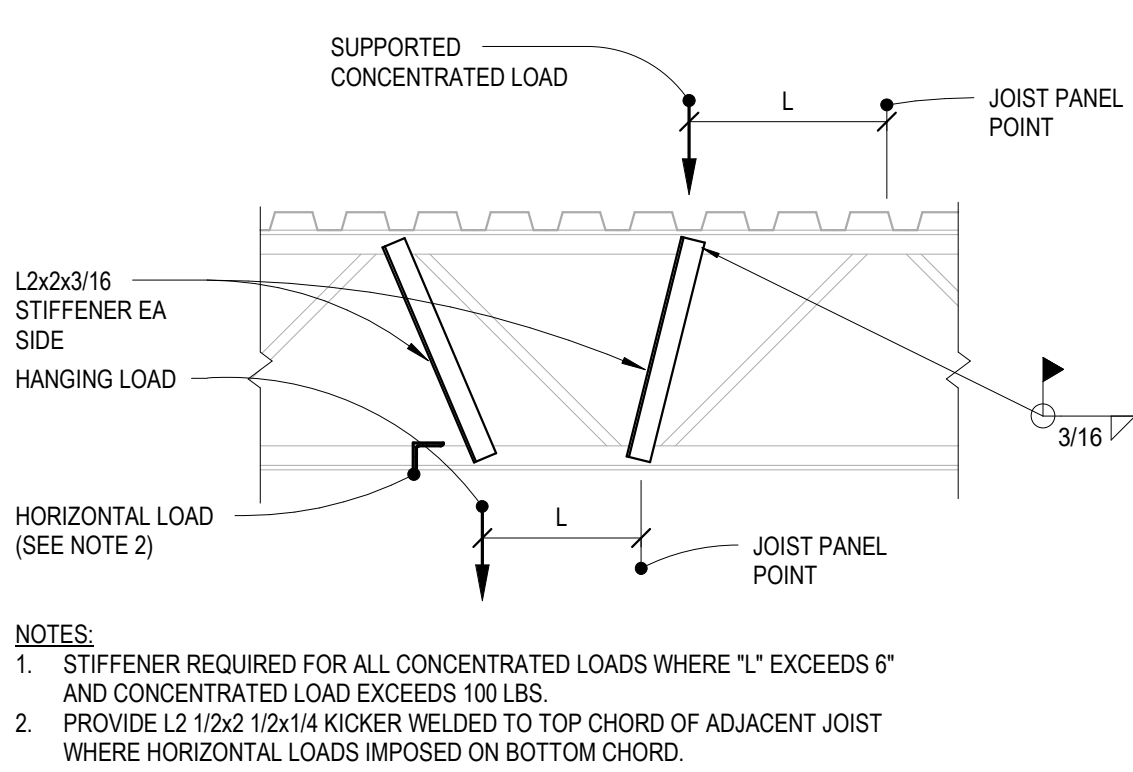
3/4" = 1'-0"



DECK TYPE	CHANNEL
1.5B	C6x8.2
3N	MC8x22.8

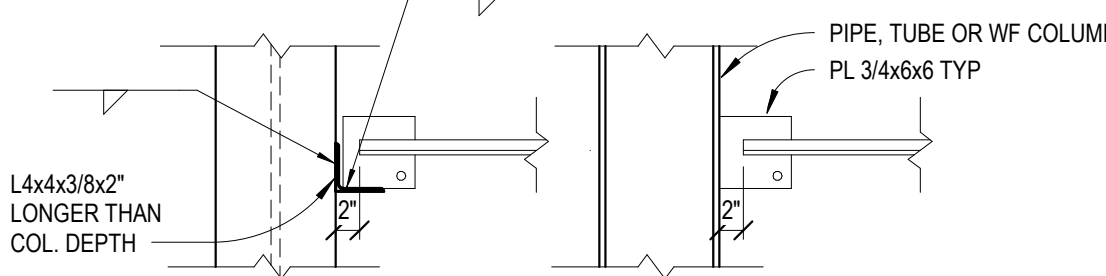
CONTRACTOR OPTION: IT IS PERMISSIBLE TO SUBSTITUTE STEEL FRAMING FOR RTU SUPPORT AND ROOF FRAMING OPENING AS SHOWN WITH QUICK FRAME OR APPROVED EQUAL. SUBMIT ENGINEERING DATA FOR PRODUCT LOAD CAPACITY FOR APPROVAL. JOIST STIFFENER ANGLE PER 3/5521 IS REQUIRED FOR CONCENTRATED LOADS OUTSIDE OF PANEL POINTS.

- RTU SUPPORT NOTES:
- INSTALL CHANNELS FROM TOP SIDE, AFTER DECK PLACEMENT. LOCATE IN DECK FLUTES ADJUSTING SPACING IN INCREMENTS MATCHING DECK RIB SPACING.
 - POSITION CURB OVER CHANNELS AND LOCATE REQ'D DUCT PENETRATIONS THRU ROOF. REFER TO MECH. DRAWINGS FOR EXACT SIZES.
 - POSITION ANGLES BELOW DECK AND WELD TO CHANNELS THRU DECK FROM TOP SIDE. OMIT CROSS ANGLES IF EDGE OF PENETRATION IS WITHIN 6" OF A JOIST.
 - CUT ROOF DECK ONLY AS REQUIRED FOR DUCT PENETRATION.



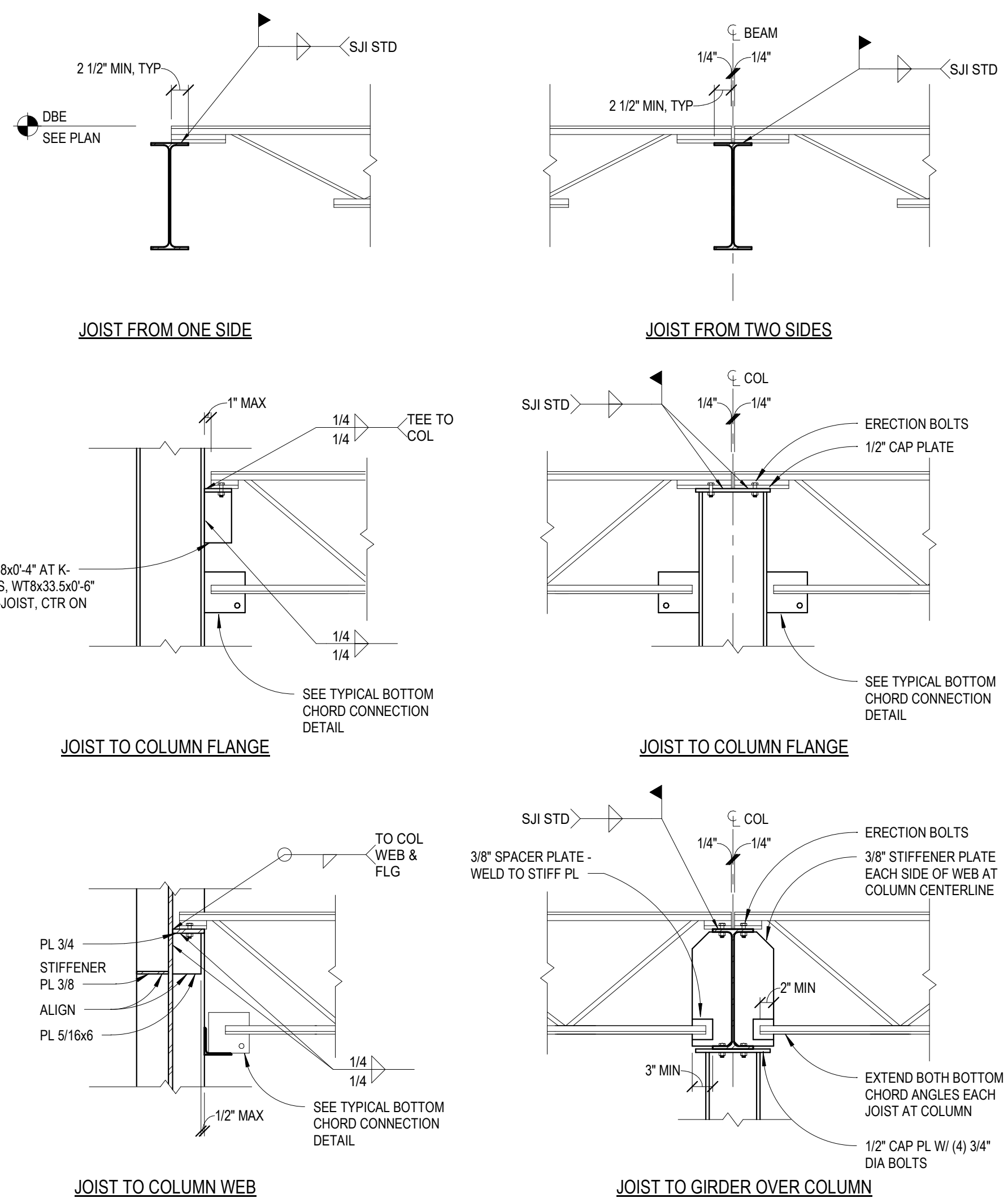
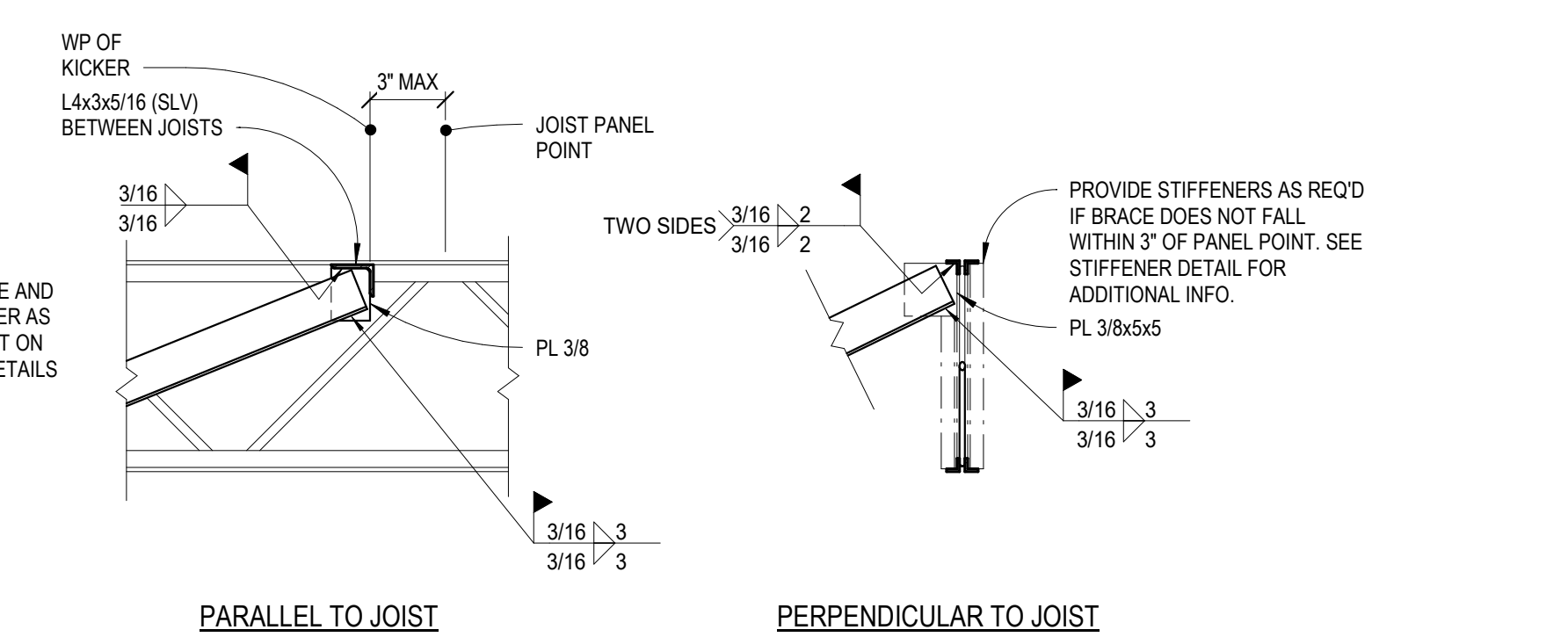
3 TYP JOIST REINFORCEMENT AT CONCENTRATED LOAD

NO SCALE



2 TYP JOIST BOTTOM CHORD CONNECTION

3/4" = 1'-0"



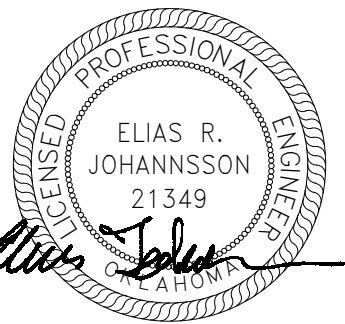
4 TYP MECHANICAL UNIT SUPPORT DETAILS

NO SCALE

1 TYPICAL JOIST BEARING DETAILS

NO SCALE

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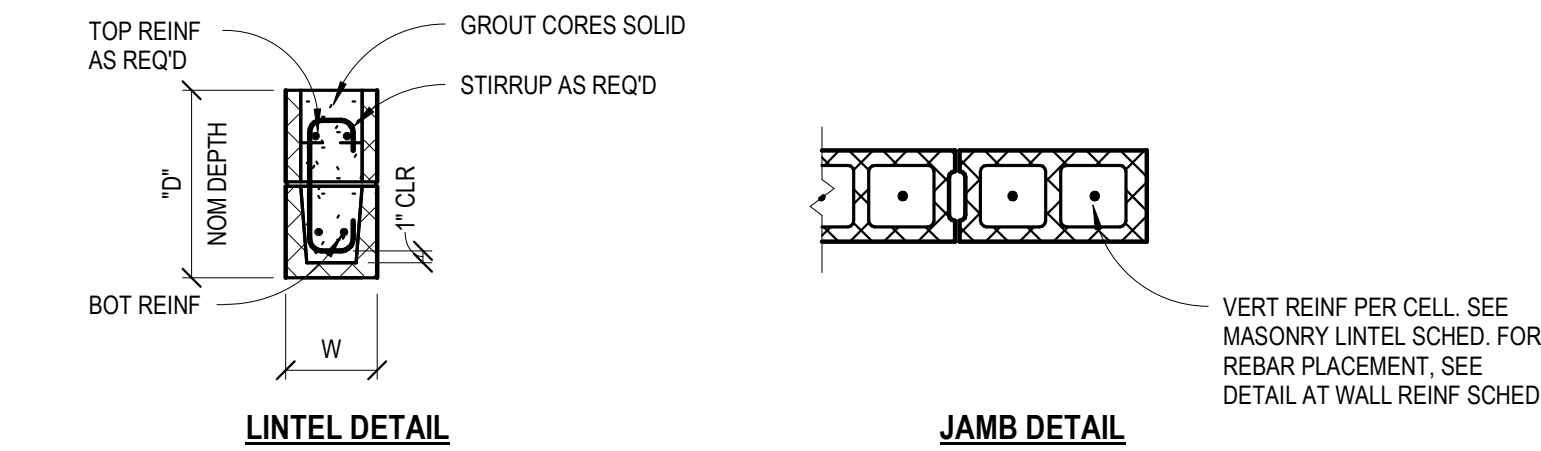
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CONCRETE MASONRY LINTEL REINFORCEMENT SCHEDULE							
NOM WIDTH "W"	LINTEL NOM DEPTH "D"	LINTEL CLEAR SPANS (S) LINTEL MARK	LINTEL HORIZ REINF	STIRRUP	JAMB NOM WIDTH	JAMB VERT REINF PER CELL	REMARKS
8"	16"	0'-0" < S ≤ 6'-4"	(2) #5 T&B	N/A	16"	(2) #5	

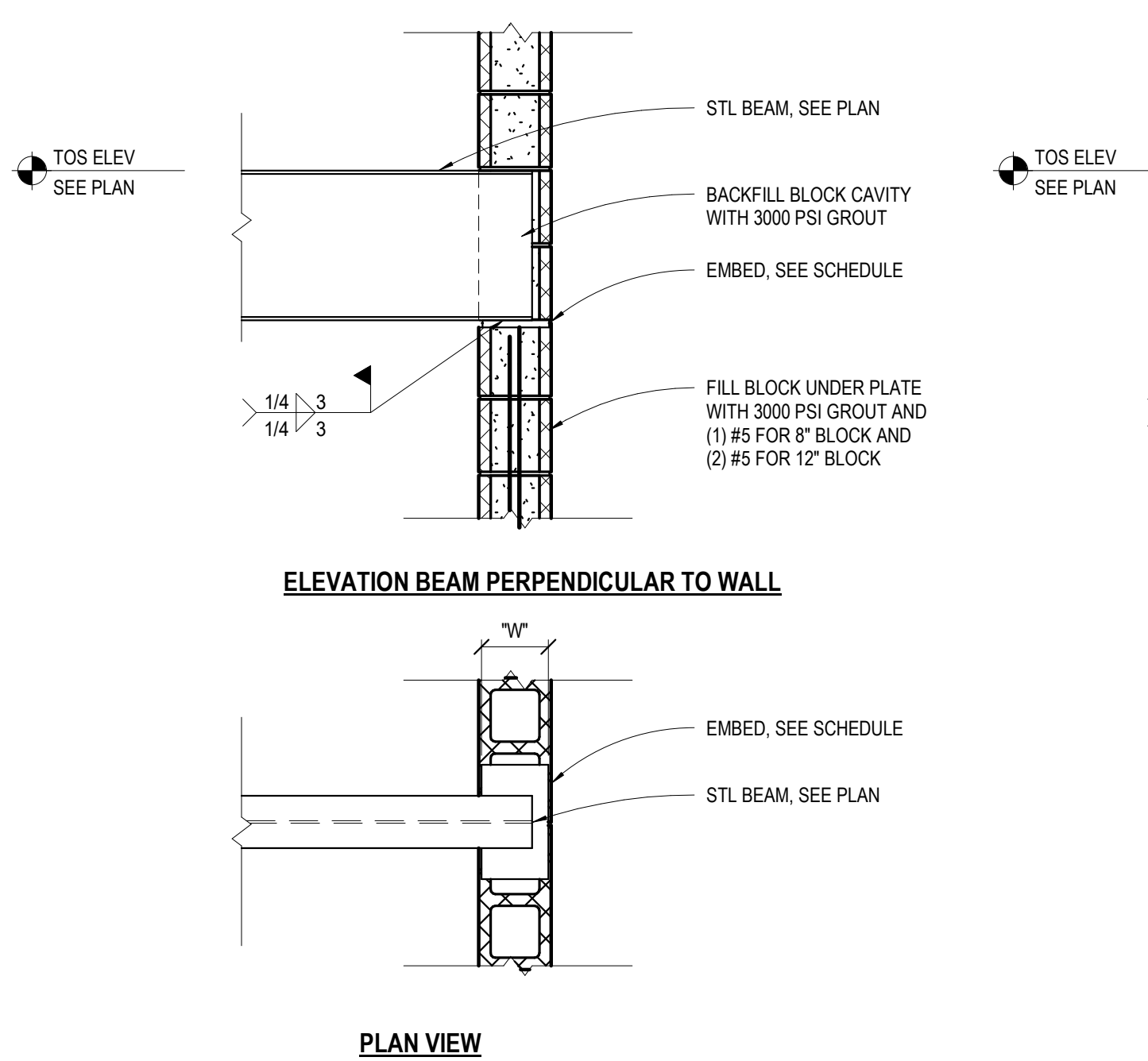


NOTES:

- SEE STRUCT PLANS FOR GENERAL LOCATION OF MARKED LINTELS. SIZE AND REINF OF LINTELS UNMARKED ON PLAN SHALL BE BASED ON OPENING CLEAR SPAN AS SHOWN ON THE MASONRY LINTEL SCHEDULE. SEE ARCH FOR SPECIFIC LOCATION AND CLEAR SPAN OF ALL LINTELS.
- MASONRY LINTELS SHALL SPAN CONTINUOUSLY BETWEEN BEARINGS EACH SIDE. EXTEND TOP AND BOTTOM REINF 40 BAR DIAMETERS BEYOND EDGE OF OPENING OR EXTENDED (JAMB WIDTH -4", 1'-8" MIN) BEYOND EDGE OF OPENING AND TERMINATE WITH 90 DEGREE STD HOOK.
- MASONRY LINTEL FRAMING INTO PERPENDICULAR MASONRY WALL SHALL BE SUPPORTED BY JAMB LOCATED ALONG PERPENDICULAR MASONRY WALL, CENTERED AT LINTEL WITH JAMB WIDTH AND REINF AS SHOWN ON MASONRY LINTEL SCHEDULE.
- AT MASONRY LINTEL FRAMING INTO PERPENDICULAR CAST IN PLACE CONCRETE WALL, EXTEND DOWEL INTO CONCRETE WITH ACI STD HOOK AND MATCH DOWEL SIZE AND SPACING WITH LINTEL REINF.

5 MASONRY LINTEL SCHEDULE

3/4" = 1'-0"

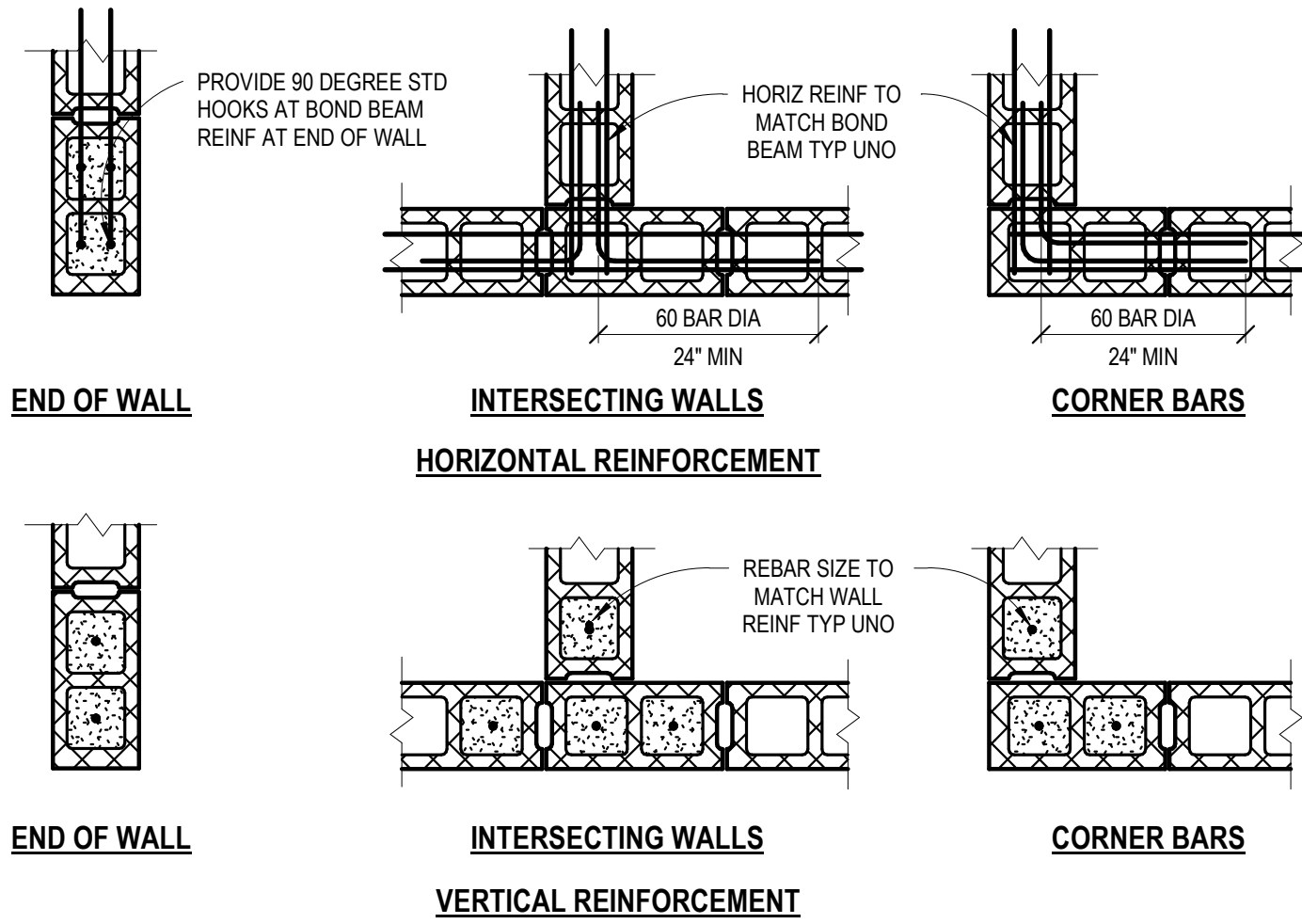


SCHEDULE		
BEAM SIZE	EMBED PLATE (T x W x L)	NUMBER OF ANCHORS
W8	5/8x8x1'-0"	4
W10, W12	5/8x8x1'-0"	4
W14	5/8x8x1'-0"	4
W16	5/8x8x1'-0"	4
W18	3/4x8x1'-0"	4

- W= WIDTH OF CMU- 5/8"
- WHERE BEAM POCKET INTERRUPTS JAMB REINFORCEMENT PROVIDE ADDITIONAL JAMB TO SPAN BETWEEN FLOORS ADJACENT TO BEAM POCKET
- ANCHORS SHALL BE #5x2'-0" DBA'S

2 STEEL BEAM POCKET DETAIL

3/4" = 1'-0"

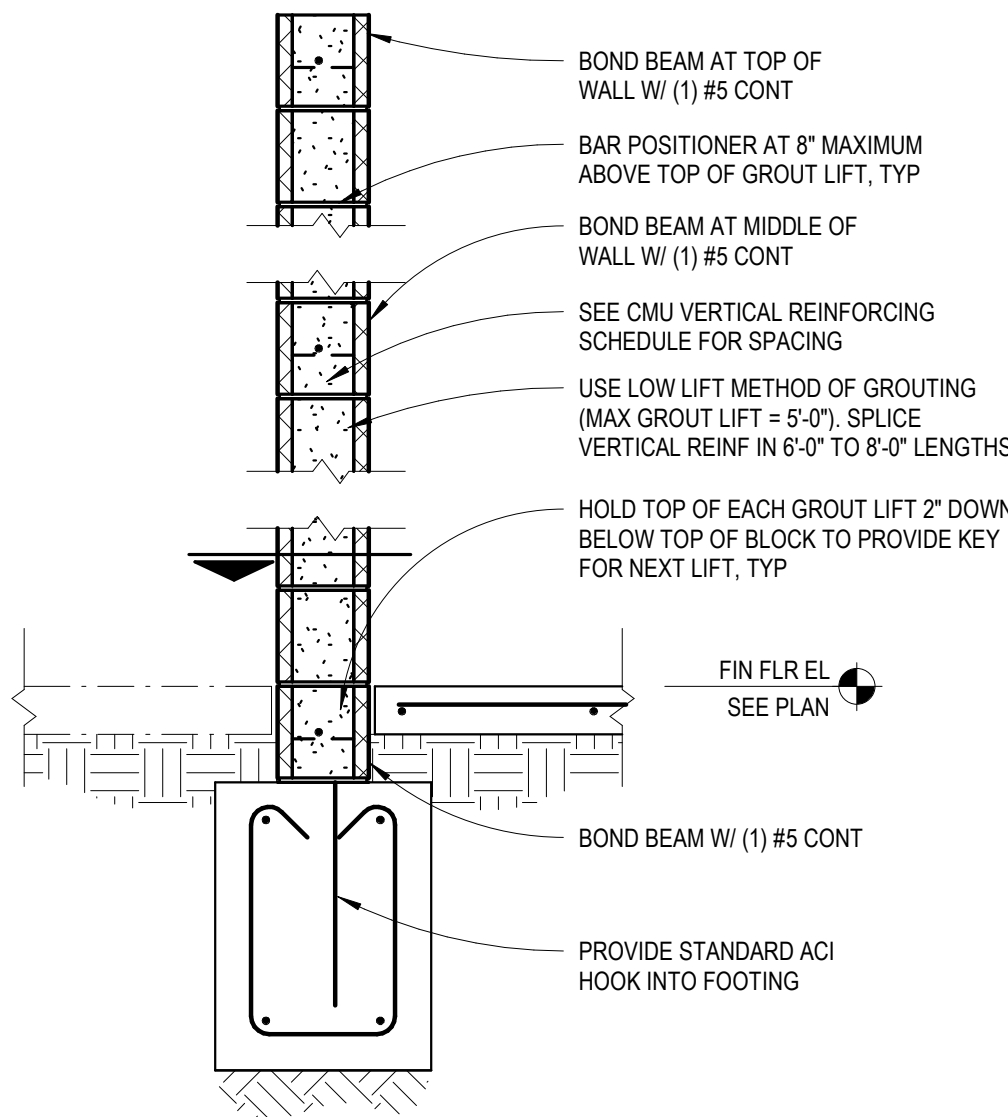
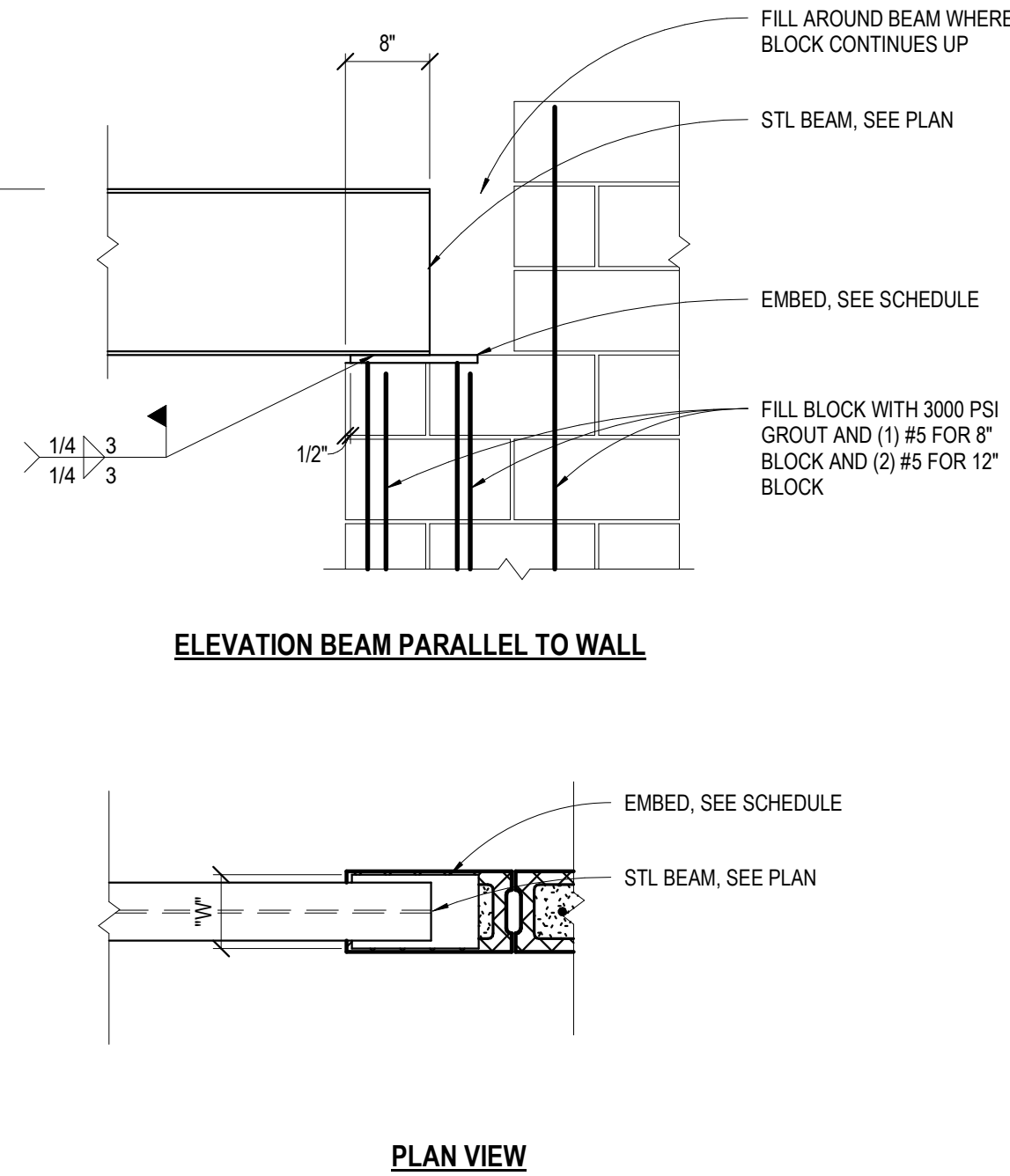


NOTES:

- REINFORCEMENT SHOWN IS IN ADDITION TO MINIMUM WALL REINFORCEMENT SHOWN IN CONC MASONRY WALL REINF SCHEDULE.
- REINFORCING TO BE CONTINUOUS FROM FOOTING TO TOP OF WALL. FILL CORES SOLID WITH GROUT AS NOTED IN THE SPECIFICATIONS OR GENERAL NOTES. SEE CONCRETE MASONRY NOTES FOR REINF LAPPING LENGTH.

4 CMU WALL INTERSECTIONS

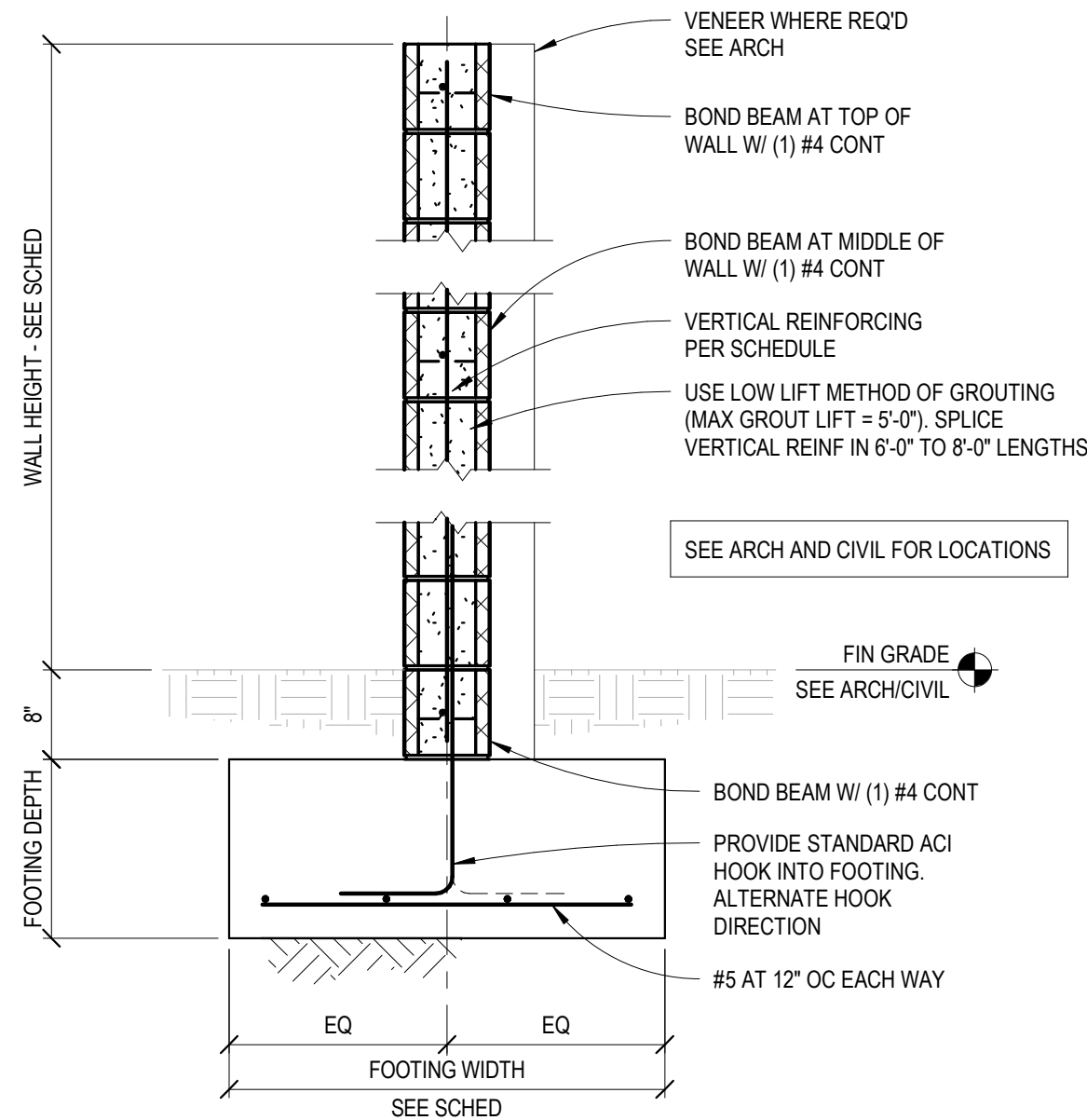
3/4" = 1'-0"



1 CMU WALL REINFORCING DIAGRAM

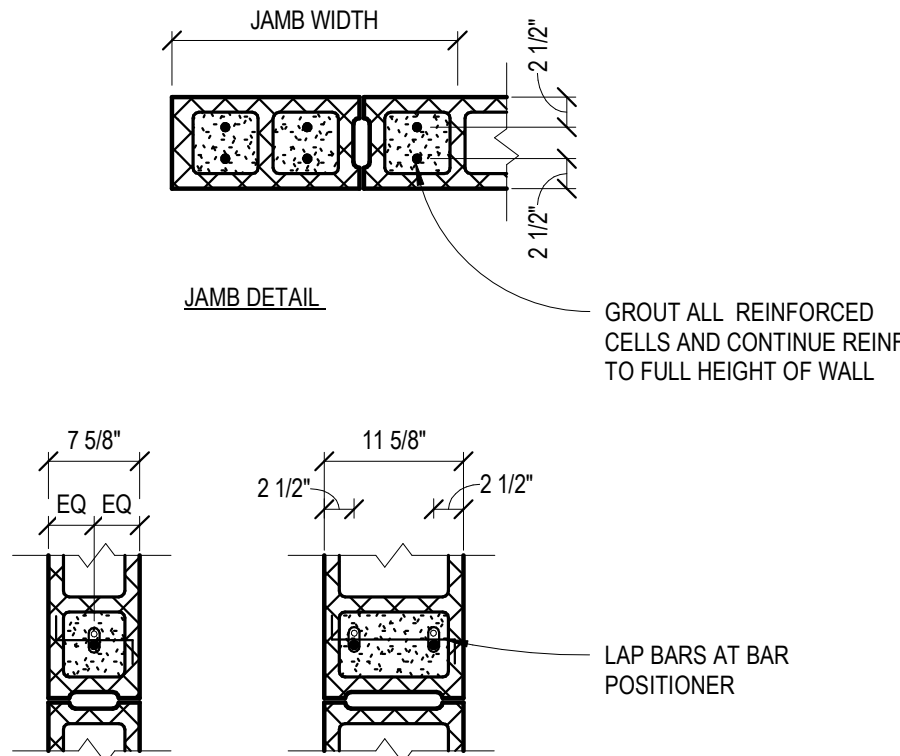
3/4" = 1'-0"

CMU SCREEN WALL AND FOUNDATION				
WALL HEIGHT	WALL THICK	VERT REINF	FOOTING WIDTH	FOOTING DEPTH
UP TO 6'-0"	8"	#4 AT 48"	2'-2"	1'-4"
6'-0" TO 8'-0"	8"	#5 AT 32"	2'-8"	1'-4"
8'-0" TO 10'-0"	12"	#5 AT 48"	2'-8"	1'-4"
10'-0" TO 12'-0"	12"	#5 AT 32"	3'-8"	1'-4"



3 TYPICAL CMU SCREEN WALL DETAIL

3/4" = 1'-0"



CMU VERTICAL REINFORCING SCHEDULE	
SIZE	WALL REINFORCING
8"	(1) #5 VERT AT 8" OC WITH (1) #5 DOWEL AT 8" OC

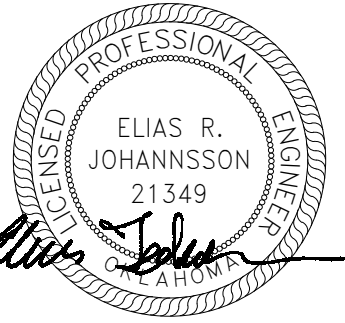
NOTES:

- GROUT SOLID ALL CELLS WITH REINFORCING.
- USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE THROUGH-TYPE BLOCKS AT BOND BEAMS.
- DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS.
- ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
- SEE DETAILS FOR LOCATION OF ADDITIONAL BOND BEAMS WITH (1) #5 CONTINUOUS.
- PROVIDE (2) #5 AT EACH LINTEL AND EXTEND 24" PAST OPENING.

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GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH CURRENT APPLICABLE LOCAL, STATE, FEDERAL, FIRE, AND HEALTH CODES AND ORDINANCES AND IS RESPONSIBLE TO COMPLY WITH ALL REGULATIONS OF REGULATORY AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. CODES, ORDINANCES AND REGULATIONS SHALL HAVE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT. OBTAIN CURRENT COPIES OF ALL ADOPTED CODES AND ORDINANCES PRIOR TO BID AND INCLUDE ALL COSTS TO COMPLY WITH CODES AND ORDINANCES IN BID.
2. PAY ALL LAWFUL FEES, PERMITS OR LICENSES REQUIRED TO ACCOMPLISH WORK. OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL.
3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICE AND ANYTHING REASONABLY INCIDENTAL TO COMPLETE ALL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED IN ACCORDANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
4. THE CONTRACTOR IS RESPONSIBLE TO VISIT AND EXAMINE THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO THE WORK TO BE PERFORMED.
5. INCORPORATE ALL CODE AND ORDINANCE REQUIREMENTS INTO THE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENT AND/OR TO OBTAIN APPROVAL OF WORK.
6. THE DRAWINGS ARE DIAGRAMMATIC AND ARE ONLY INTENDED TO DEFINE THE BASIC FUNCTIONS REQUIRED. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS AND COORDINATION WITH OTHER TRADES WILL ALLOW. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND ARE A PART OF THE WORK INCLUDED; HOWEVER, CHANGES THAT ALTER THE CHARACTER OF THE WORK ARE NOT PERMITTED. APPROVAL OF ARCHITECT AND ENGINEER SHALL BE OBTAINED BEFORE DEVIATIONS FROM THESE PLANS ARE MADE.
7. PLUMBING AND MECHANICAL SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR INSTALLATION BEFORE ORDERING EQUIPMENT AND FABRICATING PIPING AND/OR DUCTWORK.
8. THE CONTRACTOR SHALL STUDY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS TO ENSURE ALL MECHANICAL SYSTEMS WILL FIT WITH SUFFICIENT CLEARANCES FOR INSTALLATION, SERVICING AND MAINTENANCE. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL COMPLY WITH SPECIFICATIONS AND INDUSTRY STANDARDS FOR ALL INSTALLATIONS.
10. PROVIDE ALL DOMESTIC POTABLE WATER EQUIPMENT AND PIPING AS "LEAD FREE" PER THE "REDUCTION OF LEAD IN DRINKING WATER ACT". NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO SUBMITTAL.
11. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATIONS. REFER TO PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT.
12. SEAL ALL PENETRATIONS WATER TIGHT. SEAL AROUND ALL WALL PENETRATIONS. PROVIDE ESCUTCHEONS ON ALL PIPING ON EXTERIOR AND EXPOSED LOCATIONS. CAULK WITH REQUIRED THICKNESS 3M BRAND FIRE BARRIER CAULK CP-25 (OR OTHER APPROVED METHOD) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED ASSEMBLIES.
13. WHERE DUCTS PENETRATE NON-FIRE-RESISTANCE RATED FLOORS, SEAL SPACE AROUND DUCTS WITH AN APPROVED NONCOMBUSTIBLE FIRE STOP.
14. ALL CUTTING AND PATCHING OF STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.
15. THE CONTRACTOR SHALL COORDINATE ALL ROUTING AND MOUNTING OF EQUIPMENT, DUCTWORK, PIPING, ETC (ALL WORK) WITH ALL OTHER TRADES.
16. PROVIDE ACCESS PANELS WHERE INDICATED ON DRAWINGS AND AS REQUIRED TO PROPERLY OPERATE, ADJUST AND MAINTAIN ALL EQUIPMENT, VALVES, DAMPERS AND OTHER ACCESSORIES. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE INSTALLATION WITH ALL OTHER TRADES. ACCESS PANEL TO BE MILCOR, MATHBROOK, OR APPROVED EQUAL, HINGED WITH SCREWDRIVER LOCK.
17. ROUTE DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID CONFLICT WITH LIGHTS.
18. INSTALL ALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS UNLESS DISTINCTLY SHOWN OR NOTED OTHERWISE. ROUTE PIPING LOCATED NEAR EACH OTHER PARALLEL IN ALL PLANES AND WITH SUFFICIENT CLEARANCE.
19. ALL PIPING SHALL BE INSTALLED SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGES TO EQUIPMENT, OTHER WORK, OR INJURY TO PIPING SYSTEM. ALL NECESSARY SWING JOINTS, EXPANSION JOINTS, OR OFFSETS TO PROTECT PIPING, ETC. SHALL BE INSTALLED WHETHER INDICATED OR NOT.
20. PROPERLY SUPPORT ALL PIPING. PROVIDE ALL REQUIRED ANCHORS, GUIDES AND EXPANSION DEVICES.
21. PAINT ALL EXTERIOR AND EXPOSED PIPING. REFER TO AXXX FOR COLOR. (DESIGNER/ENGINEER: COORDINATE THIS REFERENCE WITH THE ARCHITECT.)
22. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL MATERIAL, EQUIPMENT, APPARATUS AND WORK FROM DAMAGE. FAILURE TO DO SO TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE WILL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE MATERIAL, EQUIPMENT, APPARATUS AND WORK IN QUESTION.
23. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE. THE CONTRACTOR'S GUARANTEE INCLUDES EQUIPMENT CAPACITY, PERFORMANCE RATINGS AND NOISE RATINGS. ANY DEFICIENCIES SHALL BE PROMPTLY CORRECTED. ROUTINE MAINTENANCE SHALL NOT BE INCLUDED.
24. THE CONTRACTOR SHALL CLEAN ALL FIXTURES, PIPES, EQUIPMENT AND EXPOSED WORK AFTER COMPLETION OF FINAL TESTING AND BEFORE ACCEPTANCE.
25. ALL PLATED AND OTHER FINISHED PRODUCTS SHALL BE THOROUGHLY CLEANED AND POLISHED.
26. THE MANUFACTURER MODEL OR CATALOG NUMBERS INDICATED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD FOR THE GENERAL DESIGN, PERFORMANCE, AND QUALITY OF THE PRODUCT REQUIRED.
27. ALTERNATE MANUFACTURERS LISTED IN THE SCHEDULE OR SPECIFICATIONS ARE APPROVED TO BID; HOWEVER, THE SUBMITTED PRODUCT MUST MEET THE GENERAL DESIGN, PERFORMANCE, DIMENSIONS, WEIGHT, AND QUALITY OF THE SCHEDULED PRODUCT. EACH MANUFACTURER WILL HAVE DIFFERENCES IN INSTALLATION REQUIREMENTS. IF THE CONTRACTOR ELECTS TO GO WITH A NON-BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE THE COST FOR ENGINEERING TIME, AS REQUIRED, TO ADJUST THE DESIGN TO THOSE DIFFERENCES IN THEIR BID. IF THE BASIS OF DESIGN IS NOT BID, THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY THE DIFFERENCES IN THE INSTALLATION REQUIREMENTS BETWEEN THE BASIS OF DESIGN AND THE SUBMITTED MANUFACTURER DURING THE SUBMITTAL PHASE.
28. WHERE "OR APPROVED EQUAL" IS INDICATED, OTHER PRODUCTS SIMILAR IN DESIGN AND OF EQUAL QUALITY AND PERFORMANCE, AND COMPLYING WITH THE PLANS AND SPECIFICATIONS MAY BE APPROVED IF FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER. THE CONTRACTOR MUST SUBMIT TO THE ARCHITECT/ENGINEER A LINE-BY-LINE COMPARISON BETWEEN SCHEDULED MANUFACTURER AND "OR APPROVED EQUAL" MANUFACTURER 10 DAYS PRIOR TO BID.
29. ALL MATERIALS, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO ALL RULES, CODES, ETC., AS RECOMMENDED OR ADAPTED BY THE NATIONAL ASSOCIATION GOVERNING THE MANUFACTURER, RATING AND TESTING OF SUCH MATERIALS, EQUIPMENT, ETC., ALL ELECTRICALLY OPERATED EQUIPMENT SHALL BE U.L. APPROVED FOR THE USE INTENDED.
30. ALL FIRED AND UNFIRED PRESSURE VESSELS SHALL CONFORM TO THE RULES OF THE A.S.M.E. AND NATIONAL BOARD CODES AND SHALL BE SO LABELED. FURNISH A.S.M.E. AND NATIONAL BOARD CERTIFICATES.
31. MOTORS SHALL CONFORM TO THE RULES OF THE N.E.M.A. FOR THE SERVICE INTENDED AND TO THEIR STANDARDIZED FORM SIZES.
32. SHOP DRAWINGS, CATALOG CUTSHEETS AND PERFORMANCE DATA PERTAINING TO ALL MATERIALS AND EQUIPMENT PROPOSED FOR USE SHALL BE SUBMITTED.
33. JOINTS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC NIPPLES DOWNSTREAM OF A VALVE.
34. ALL MATERIALS EXPOSED IN A RETURN AIR PLENUM SHALL COMPLY WITH NFPA 90A FLAME SPREAD UNDER 25 AND SMOKE DEVELOPED AND FUEL CONTRIBUTED UNDER 50.
35. THE DISCHARGE OF SAFETY VALVES, BLOWOFF PIPES AND OTHER OUTLETS SHALL BE LOCATED AND SUPPORTED SO AS TO PREVENT INJURY TO PERSONNEL.
36. PROVIDE RETURN AIR SMOKE DETECTOR IN EACH HVAC UNIT OVER 2,000 CFM AS REQUIRED BY THE LATEST ADOPTED INTERNATIONAL MECHANICAL CODE.
37. MECHANICAL EQUIPMENT SHOWN ON THE PLANS HAVE A SPECIFIC WEIGHT AND LOCATION. SHOULD THE CONTRACTOR INSTALL EQUIPMENT WITH DIFFERENT WEIGHTS OR LOCATIONS AS SHOWN, CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE STRUCTURAL ENGINEER FOR APPROVAL, PRIOR TO PURCHASING, CLEARLY INDICATING THE DIFFERENCES IN SIZE, WEIGHT AND LOCATION. THE ARCHITECT/ENGINEER SHALL NOT BEAR THE COSTS OF SUCH REVIEWS OR REDESIGNS.
38. DO NOT ROUTE PIPING OVER ELECTRICAL OR COMMUNICATIONS EQUIPMENT. THIS INCLUDES HYDRONICS, STEAM, DOMESTIC WATER, SANITARY SEWER AND VENTS, CONDENSATE, ROOF DRAINS, ETC.
39. PROVIDE TEMPORARY AIR FILTERS PRIOR TO STARTUP OF ALL FANS THAT ARE OPERATING DURING CONSTRUCTION, AND INSTALL NEW FILTERS AFTER ALL CONSTRUCTION DIRT HAS BEEN REMOVED FROM THE BUILDING, AND THE DUCTS, PLENUMS, CASINGS, AND OTHER ITEMS SPECIFIED HAVE BEEN VACUUM CLEANED. MAINTAIN SYSTEM IN THIS CLEAN CONDITION UNTIL FINAL ACCEPTANCE.

PLUMBING SYMBOLS LEGEND

<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>SYMBOL</u>	<u>DESCRIPTION</u>
	BACKFLOW PREVENTER, SEE SPECS	— DS —	DISTILLED WATER
	BALL VALVE	— DI —	DEMINERALIZED OR DEIONIZED WATER
	BLIND FLANGE	— DCW —	DOMESTIC COLD WATER
	CAP	— DHW —	DOMESTIC HOT WATER
	CHECK VALVE	— DHWR —	DOMESTIC HOT WATER RETURN
	CHECK VALVE, SILENT	— 110°F —	DOMESTIC HOT WATER (110°F)
	CIRCUIT SETTER	— 140°F —	DOMESTIC HOT WATER (140°F)
	FLEXIBLE CONNECTOR	— IW —	IRRIGATION WATER
	GENERAL VALVE, SEE SPECS	— G —	NATURAL GAS, LOW PRESS
	PRESSURE AND TEMPERATURE RELIEF	— MPG —	NATURAL GAS, MED PRESS
	PRESSURE REDUCING VALVE	— HPG —	NATURAL GAS, HIGH PRESS
	RELIEF VALVE, ASME	— CA —	COMPRESSED AIR
	SOLENOID VALVE	— PRD —	PRIMARY ROOF DRAIN
	STRAINER	— RD —	ROOF DRAIN
	TRIPLE DUTY VALVE	— SRD —	SECONDARY ROOF DRAIN
	UNION	— SD —	STORM DRAIN
	RISER DOWN (ELBOW)	— V —	VENT, SANITARY SEWER
	RISER UP (ELBOW)	— AV —	VENT, ACID WASTE
	RISE OR DROP	— GV —	VENT, GREASE
	TEE DOWN	— VAC —	VACUUM
	TEE UP	— AW —	WASTE, ACID
	TOP CONNECTION	— GW —	WASTE, GREASE
	BOTTOM CONNECTION	— SS —	WASTE, SANITARY SEWER
	SIDE CONNECTION		
	FLOW IN DIRECTION OF ARROW		
	PIPE SLOPE IN DIRECTION OF ARROW		
	REMOVE EXISTING TO THIS POINT	— — — — —	DEMOLITION
	TIE-IN TO EXISTING AT THIS POINT	=====	EXISTING TO REMAIN
	PUMP	=====	NEW CONSTRUCTION
	EQUIPMENT TAG	=====	DOMESTIC COLD WATER
	EQUIPMENT NUMBER	=====	DOMESTIC HOT WATER
		=====	DOMESTIC HOT WATER RETURN
		=====	OUTLINE OF NEW EQUIPMENT INSTALLED ABOVE THE FLOOR SHOWN (I.E., ROOF)
	CLEANOUT PLUG		
● FCO	CLEANOUT, FLOOR		
G—WCO	CLEANOUT, WALL		
G—HB	HOSE BIBB		
G—FPWH	FREEZE PROOF WALL HYDRANT		
	GAS REGULATOR		
⊙ FD	FLOOR DRAIN		
⊙ SD	SHOWER DRAIN		
■ FS	FLOOR SINK		
⊙ PRD	PRIMARY ROOF DRAIN		
⊙ SRD	SECONDARY ROOF DRAIN		

PLUMBING ABBREVIATIONS

A		L	
ADD	ADDENDUM	LB	POUND, POUNDS
ADJ	ADJUSTABLE		
AFF	ABOVE FINISHED FLOOR	M	
AV	ACID VENT	M	THOUSAND
AVTR	ACID VENT THRU THE ROOF	MBH	THOUSAND BTUH
AW	ACID WASTE	MFG	MANUFACTURER
B		MPG	NATURAL GAS, MEDIUM PRESSURE
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFPD	BACK FLOW PREVENTION DEVICE	MISC	MISCELLANEOUS
BTM	BOTTOM	MSB	MOP SERVICE BASIN
C		N	
CA	COMPRESSED AIR	NC	NORMALLY CLOSED
CD	CONDENSATE DRAIN	NIC	NOT IN CONTRACT
CL	CENTER LINE	NO	NORMALLY OPEN or NUMBER
CO	CLEANOUT	NOM	NOMINAL
CONT	CONTINUATION	NTS	NOT TO SCALE
CP	PUMPED CONDENSATE	P	
D		PH	PHASE
DCW	DOMESTIC COLD WATER	PRV	PRESSURE REDUCING VALVE
DF	DRINKING FOUNTAIN	PRD	PRIMARY ROOF DRAIN
DHW	DOMESTIC HOT WATER	PSI	POUNDS PER SQUARE INCH
DHWR	DOMESTIC HOT WATER RETURN	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DI	DEIONIZED WATER	PSIG	POUNDS PER SQUARE INCH GAGE
DF	DRINKING FOUNTAIN	R	
DN	DRAIN	(R)	EXISTING TO REMOVE, RELOCATE
DS	DISTILLED WATER	RD	ROOF DRAIN
DWG	DRAWING	RE	REFER TO
DWV	DRAIN WASTE AND VENT	RM	ROOM
E		RPM	REVOLUTIONS PER MINUTE
(E)	EXISTING TO REMAIN	RPS	REVOLUTIONS PER SECOND
EEW	EMERGENCY EYE WASH	RV	RELIEF VALVE
ENGR	ENGINEER	Ø	ROUND, DIAMETER
EQUIP	EQUIPMENT	S	
EW	ELECTRIC WATER COOLER	SD	STORM DRAIN
EW	ELECTRIC WATER HEATER	SS	SANITARY SEWER or STAINLESS STEEL
EWT	ENTERING WATER TEMPERATURE	SQIN	SQUARE INCH/INCHES
EXT	EXPANSION TANK	SQFT	SQUARE FOOT/FEET
F		SRD	SECONDARY ROOF DRAIN
F	FAHRENHEIT	T	
FCO	FLOOR CLEANOUT	TEMP	TEMPERATURE
FD	FLOOR DRAIN	THRU	THROUGH
FLR	FLOOR	TMV	THERMOSTATIC MIXING VALVE
FPWH	FREEZE PROOF WALL HYDRANT	TYP	TYPICAL
FFM	FEET PER MINUTE	U	
FT	FOOT, FEET	UL	UNDERWRITER'S LABORATORIES
FS	FLOOR SINK	UNO	UNLESS NOTED OTHERWISE
G		UR	URINAL
G	NATURAL GAS, LOW PRESSURE	V	
GAL	GALLON, GALLONS	V	VENT or VOLT
GPF	GALLONS PER FLUSH	VAC	VACUUM
GPH	GALLONS PER HOUR	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VTR	VENT THRU THE ROOF
GO	GRADE CLEAN OUT	VTW	VENT THRU THE WALL
GW	GREASE WASTE	W	
GWH	GAS WATER HEATER	WAG	WATER AND GAS
H		W	WATT
HB	HOSE BIBB	WB	WASHER BOX
HD	HEAD	WC	WATER CLOSET
HP	HORSEPOWER	WHA	WATER HAMMER ARRESTOR
HPG	NATURAL GAS, HIGH PRESSURE	Y	
I		YH	YARD HYDRANT
IN	INCH, INCHES		
INV	INVERT		
INWC	INCHES OF WATER COLUMN		
IW	IRRIGATION WATER		
K			
KW	KILOWATT		
K	THOUSAND		



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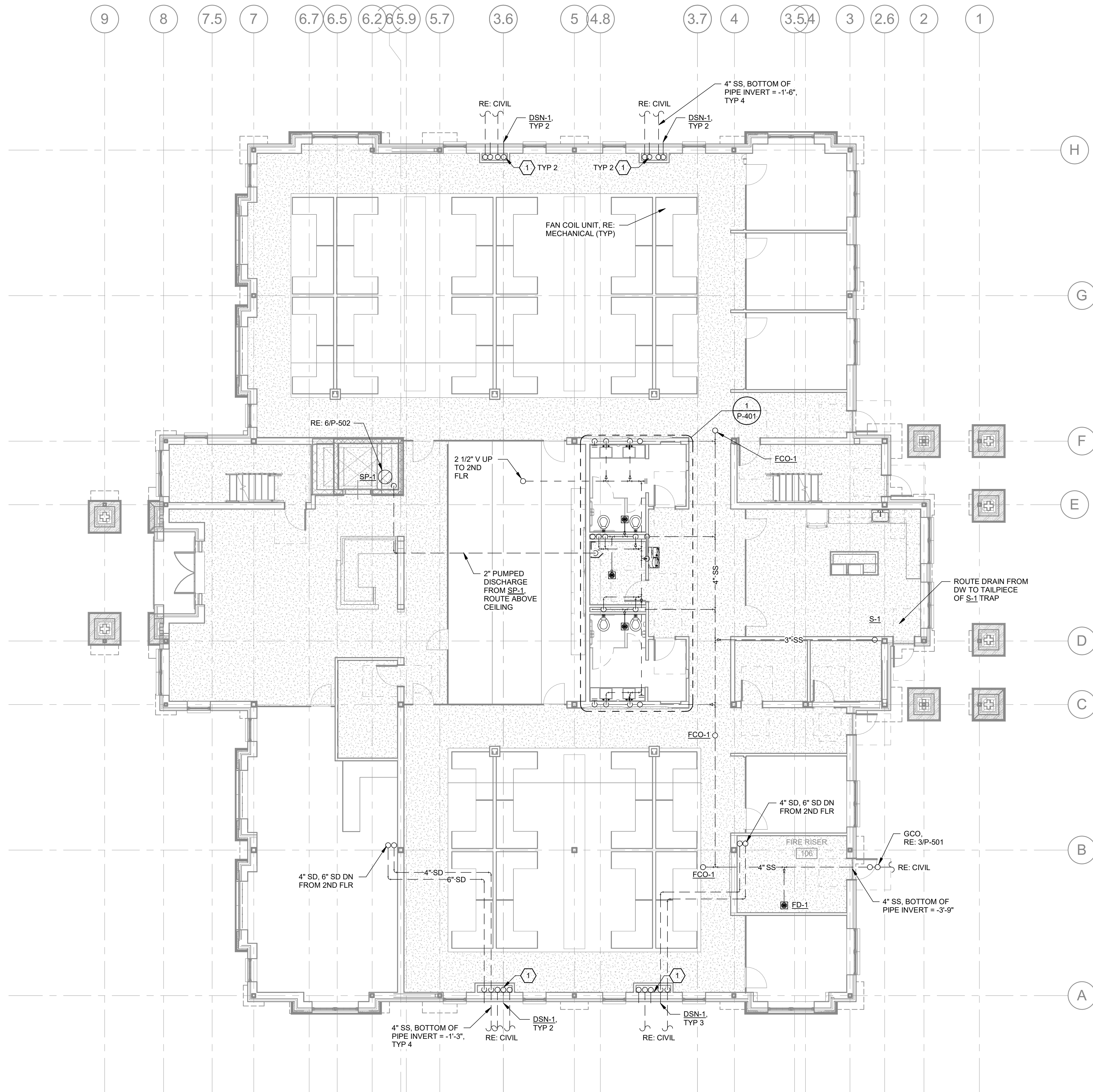
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NOTES, SYMBOLS, AND ABBREVIATIONS

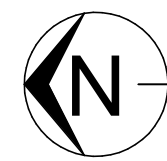
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KEYNOTES
1. 4" SD (PRIMARY), 6" SD (SECONDARY) DN FROM 2ND FLR. ROUTE IN ARCHITECTURAL FURR OUT. REFER TO CIVIL FOR 4" SD (PRIMARY) CONNECTION. TERMINATE 6" SD (SECONDARY) IN DSN AT 18" AFG.

1 FIRST FLOOR DWV PLAN
1/8" = 1'-0"



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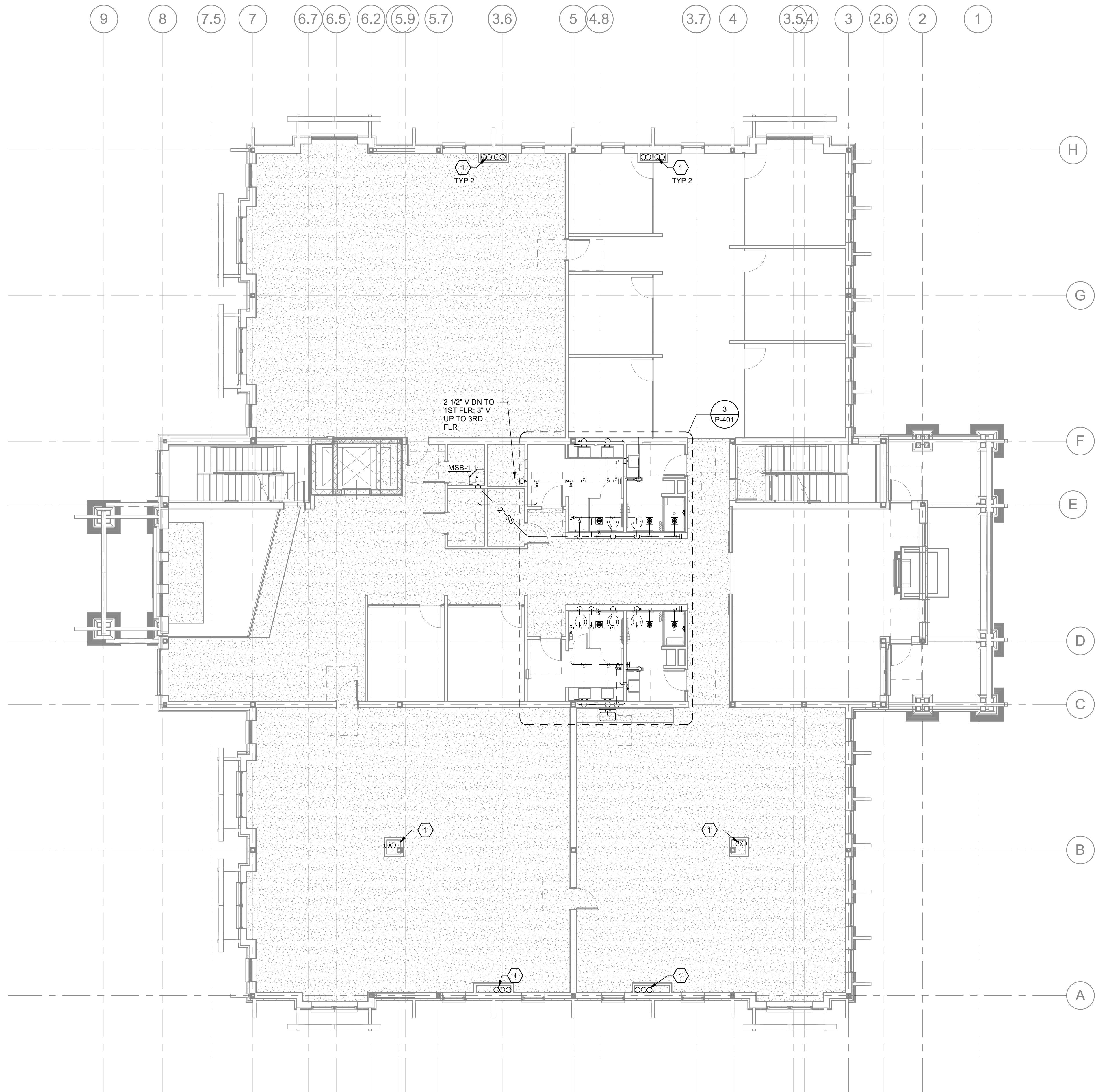
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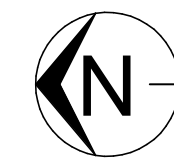
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FIRST FLOOR DWV PLAN

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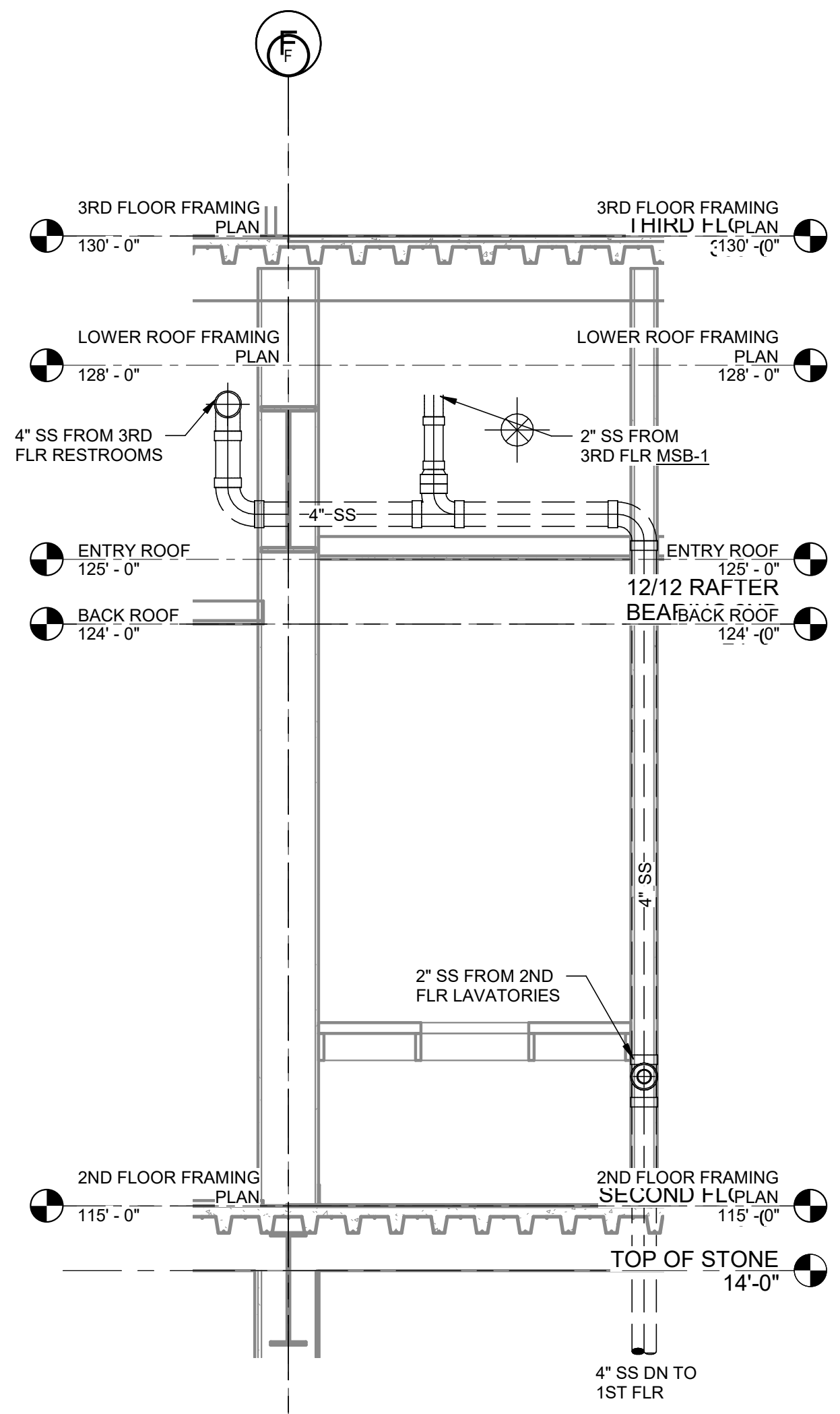


1 SECOND FLOOR DWV PLAN
1/8" = 1'-0"



KEYNOTES

1. 4" SD (PRIMARY), 6" SD (SECONDARY) DN TO 1ST FLR. ROUTE IN ARCHITECTURAL FURR OUT.



2 2ND FLR RESTROOM DWV SECTION
1/2" = 1'-0"



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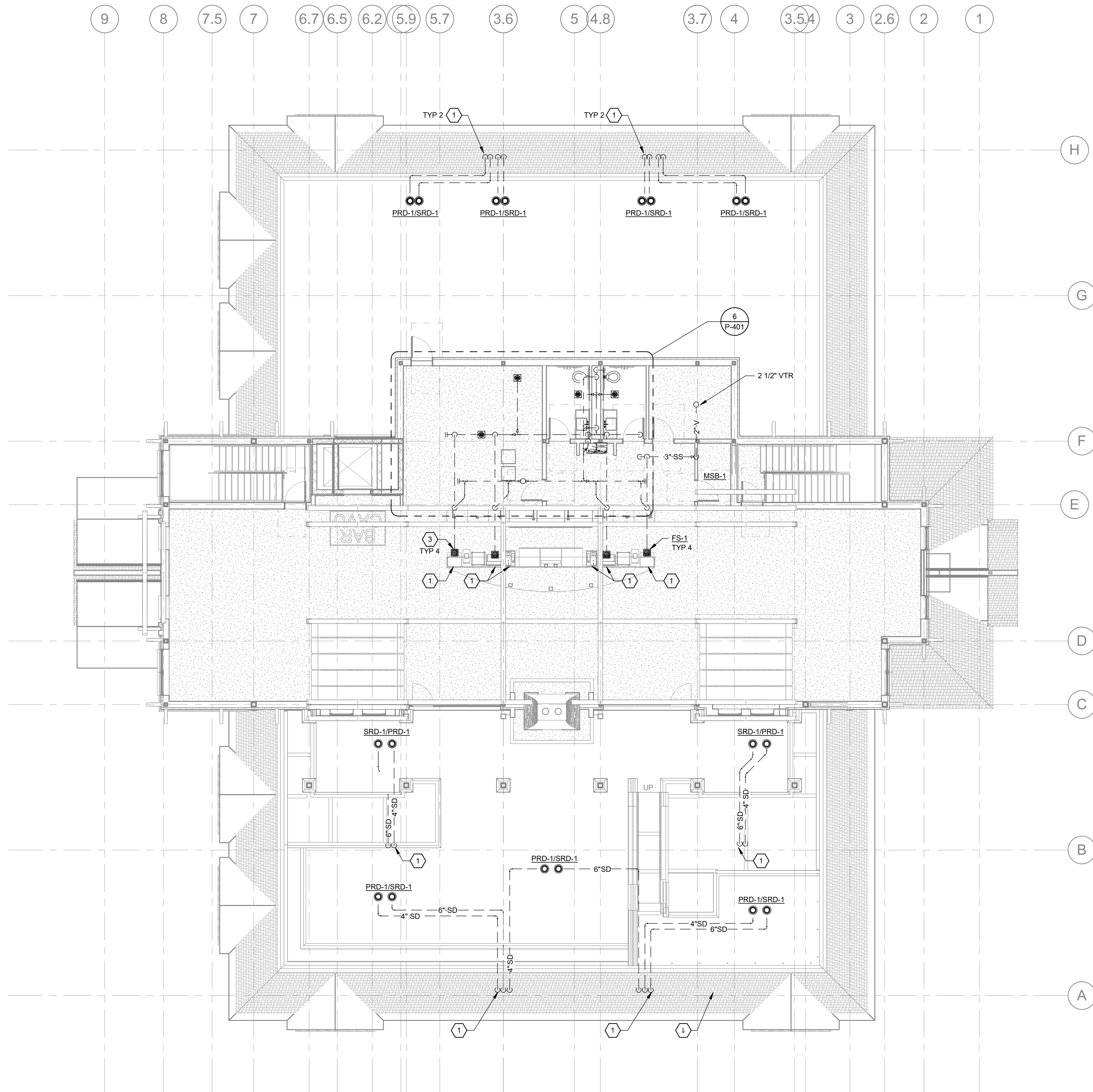
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SECOND FLOOR
DWV PLAN

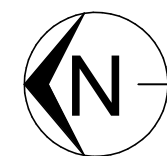
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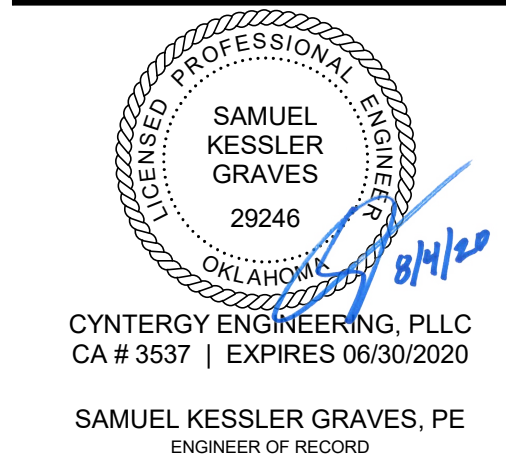
1 THIRD FLOOR DWV PLAN
1/8" = 1'-0"



KEYNOTES
1. 4" SD (PRIMARY), 6" SD (SECONDARY) DN TO 1ST FLR. ROUTE IN ARCHITECTURAL FURR OUT.
2. ROUTE SS (SIZED FOR APPLIANCE) TO NEARBY FS. TERMINATE IN INDIRECT CONNECTION.
3. LOCATE FS 50% EXPOSED. PROVIDE GRATE OVER EXPOSED AREA.

GENERAL NOTES
1. ALL ABOVE-CEILING ELEMENTS IN THE BAR/LOUNGE AREA SHALL BE LISTED AND LABELED FOR INSTALLATION IN A RETURN AIR PLENUM.

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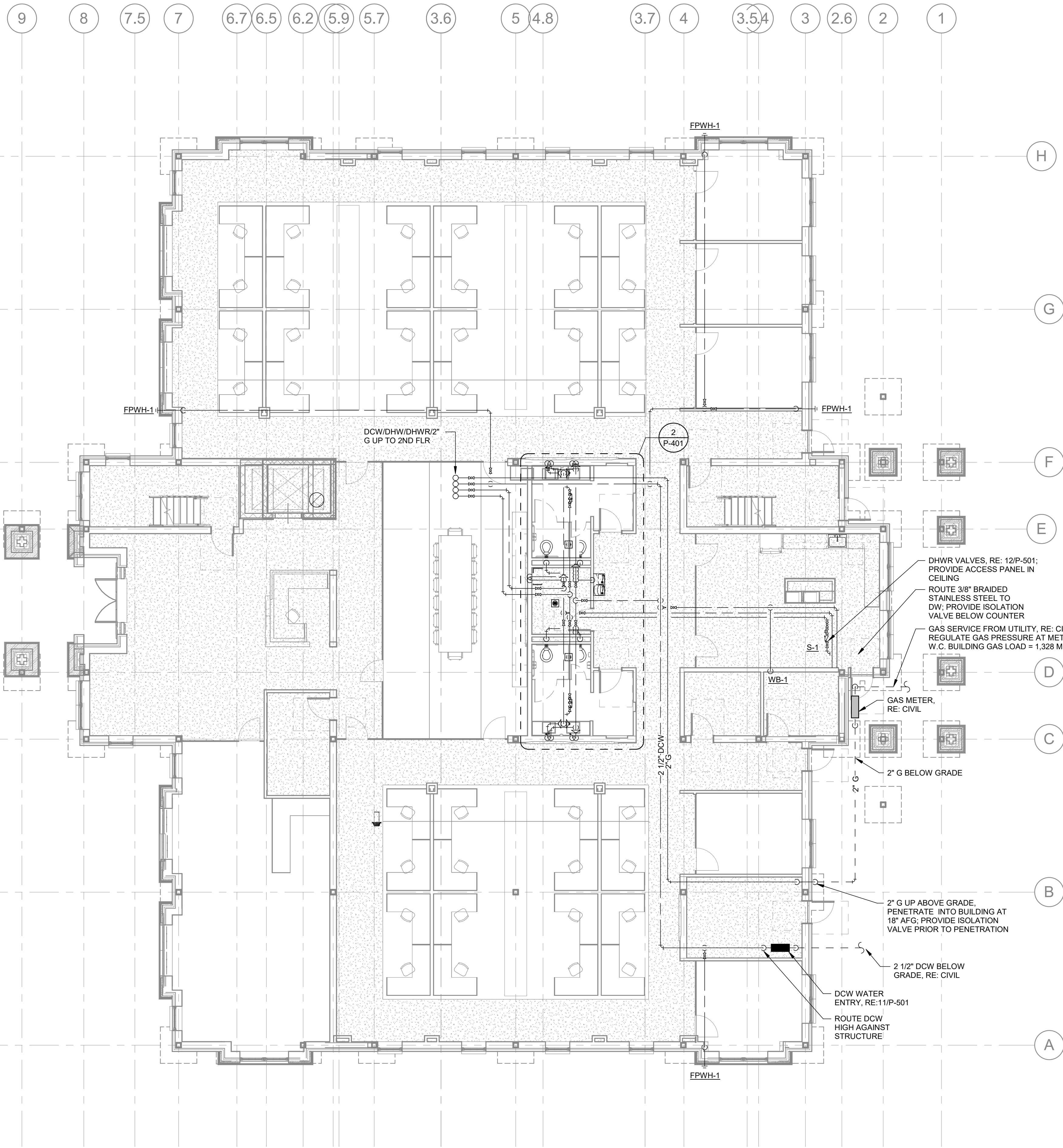
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**THIRD FLOOR DWV
PLAN**

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- GAS NOTES
1.

CONTRACTOR SHALL COORDINATE ALL DETAILS OF GAS PIPING SYSTEMS WITH LOCAL UTILITY COMPANY. COORDINATION SHALL INCLUDE GAS METER, GAS SERVICE REGULATOR, AND GAS PRESSURE REQUIREMENTS.
2.

GAS METER AND SERVICE REGULATOR PROVIDED AND INSTALLED BY UTILITY COMPANY.
3.

VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER UTILITY COMPANY COMPLETES INSTALLATION.
4.

NATURAL GAS DEMAND IS SHOWN IN MBH, BASED ON A HEATING VALUE OF 1,000 BTU (1 MBH) PER CUBIC FOOT OF GAS AND A SPECIFIC GRAVITY OF 0.6. GAS LOADS ARE COORDINATED WITH SCHEDULED EQUIPMENT.
5.

GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.

1 FIRST FLOOR WAG PLAN

1/8" = 1'-0"

N

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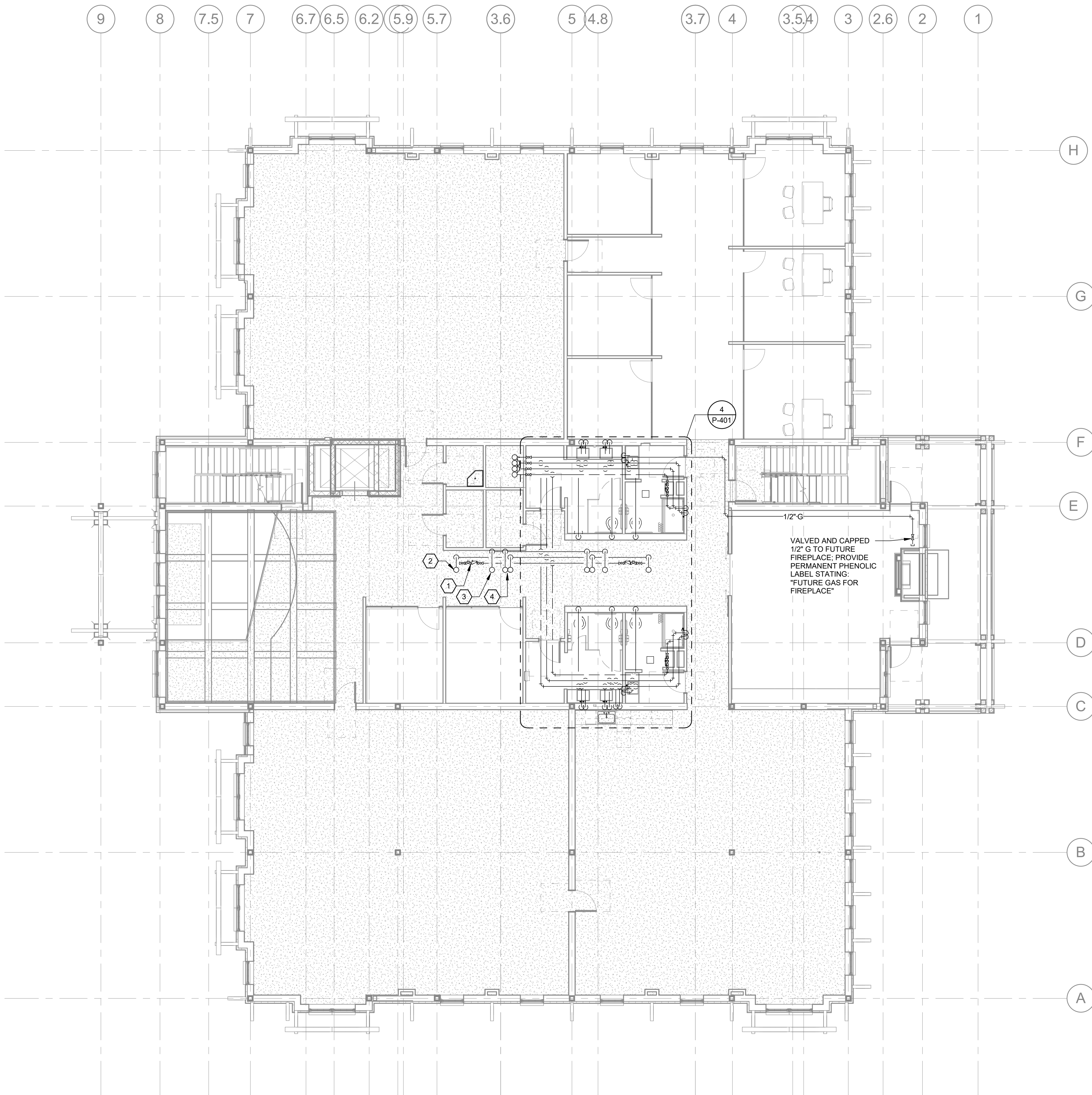
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FIRST FLOOR WAG PLAN

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KEYNOTES

1.

PROVIDE DHWR VALVES PER DETAIL 12/P-501. PROVIDE ACCESS PANELS WHERE VALVES ARE LOCATED ABOVE HARD CEILINGS. COORDINATE LOCATION OF VALVES WITH OTHER ACCESS PANELS REQUIRED FOR WAG AND DWV SERVICES TO MINIMIZE TOTAL NUMBER OF ACCESS PANELS IN CEILING.

2.

DHW UP TO GLASS WASHER.

3.

DCW TO ICE MAKER.

4.

DCW/DHW UP TO HAND SINK.

1 SECOND FLOOR WAG PLAN

1/8" = 1'-0"

N

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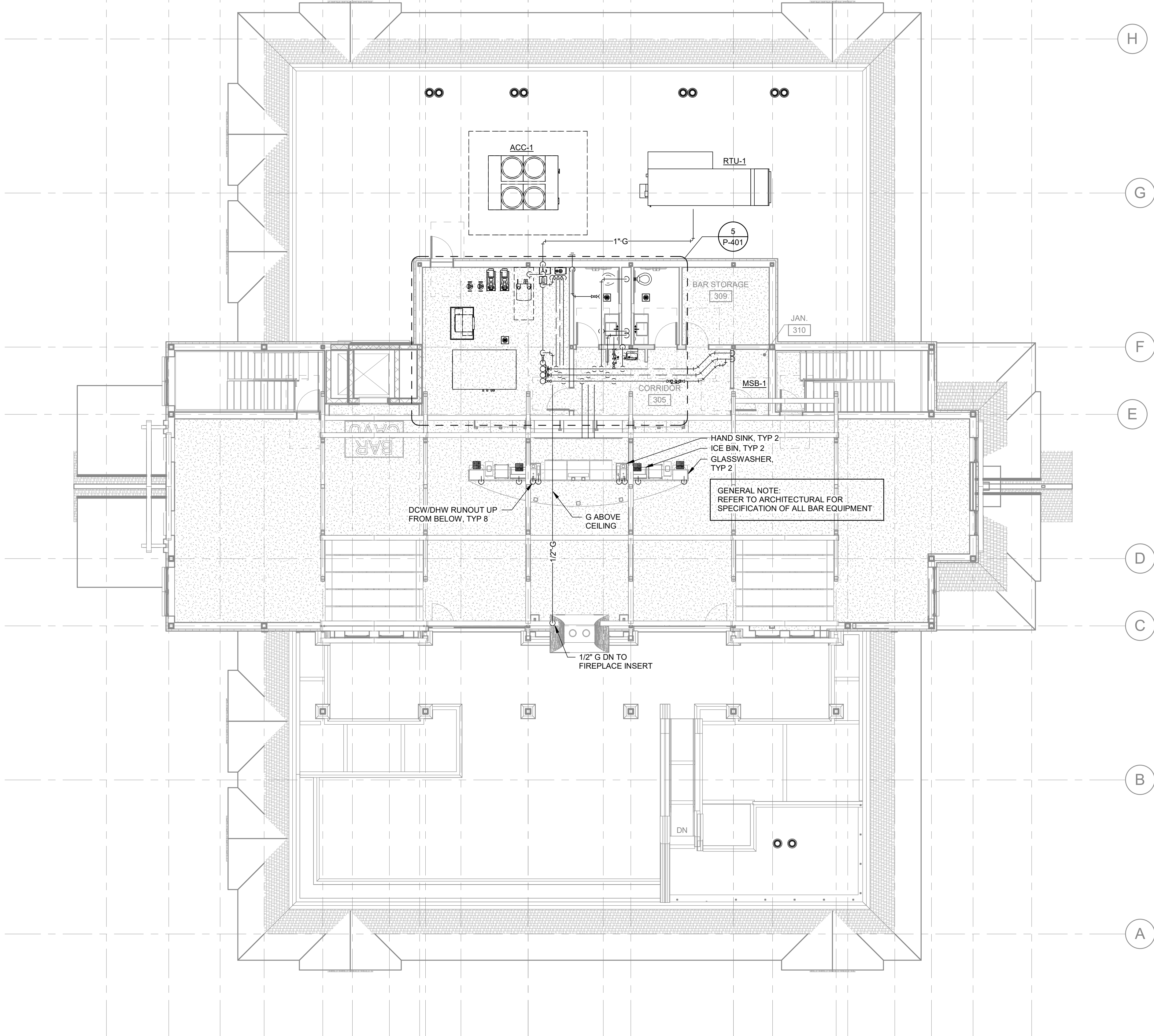
SECOND FLOOR WAG PLAN

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GENERAL NOTES

1. ALL ABOVE-CEILING ELEMENTS IN THE BAR/LOUNGE AREA SHALL BE LISTED AND LABELED FOR INSTALLATION IN A RETURN AIR PLENUM.

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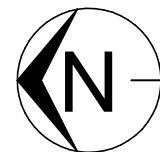
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1 THIRD FLOOR WAG PLAN
1/8" = 1'-0"



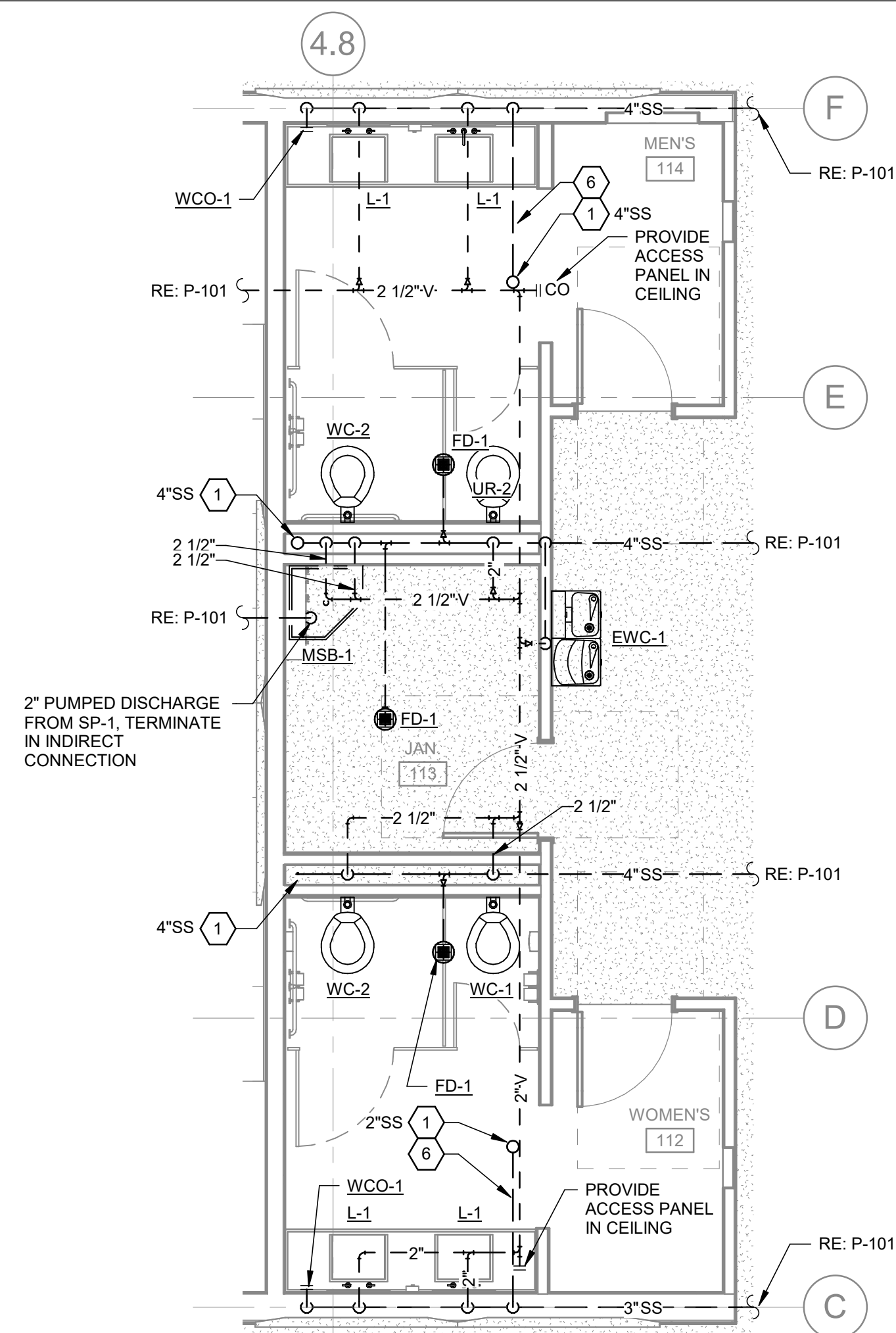
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ISSUE DATE: 08/04/2020		
ISSUE: PROGRESS SET		
OTHER ISSUE DATES:		
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	PROGRESS SET	07/14/2020
	PROGRESS SET	08/04/2020

SHEET NAME:
THIRD FLOOR WAG PLAN

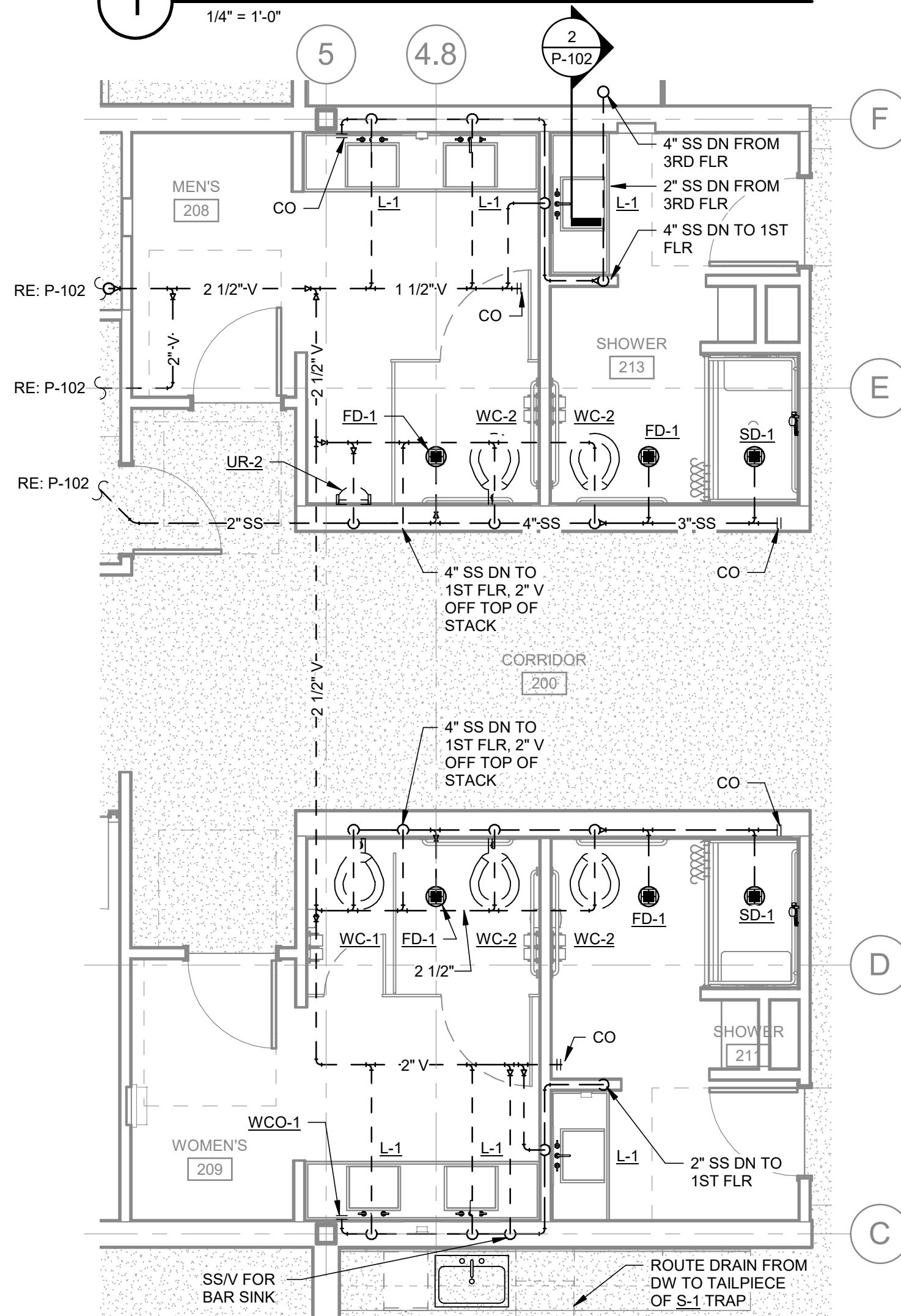
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P-113

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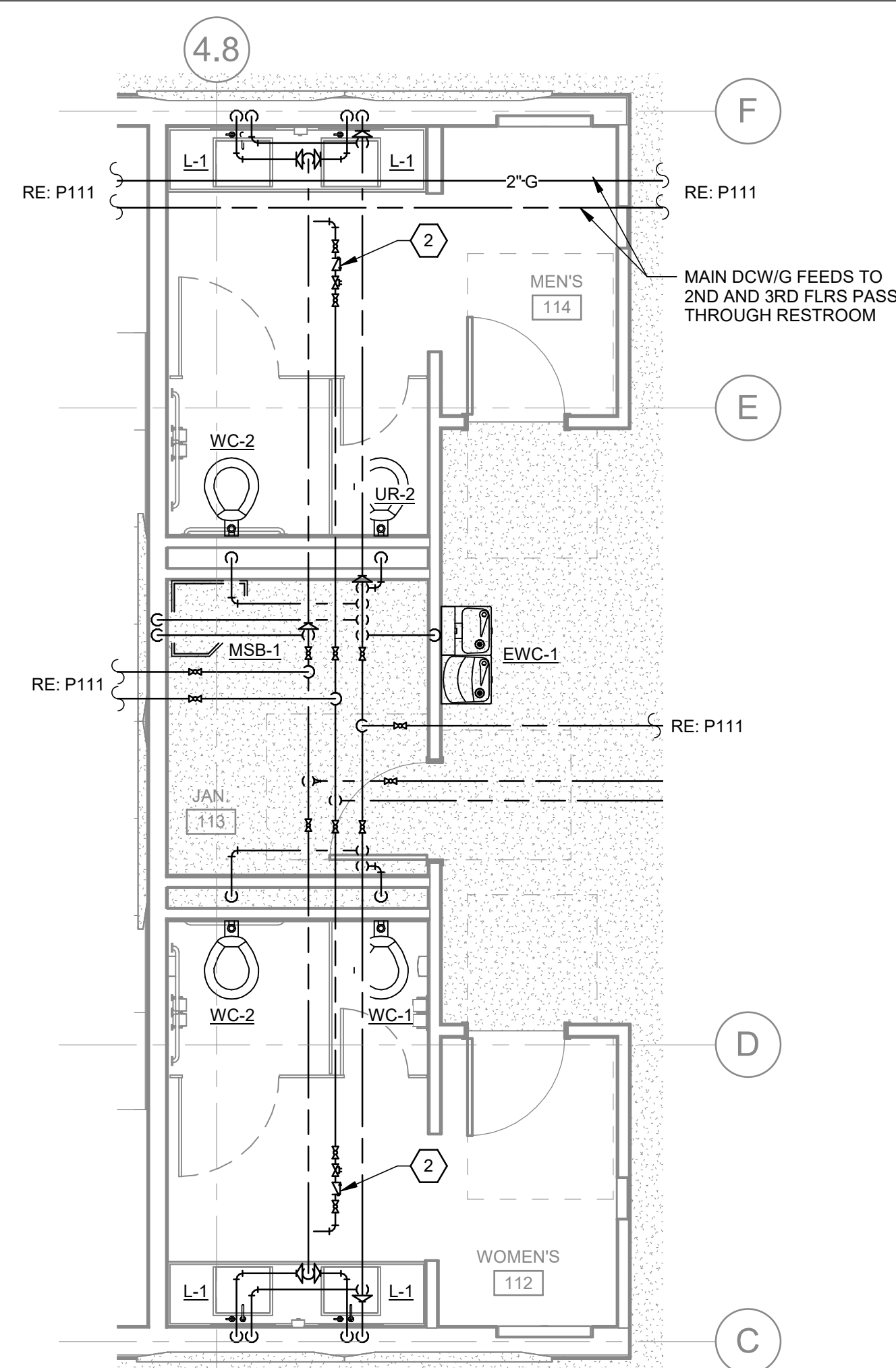
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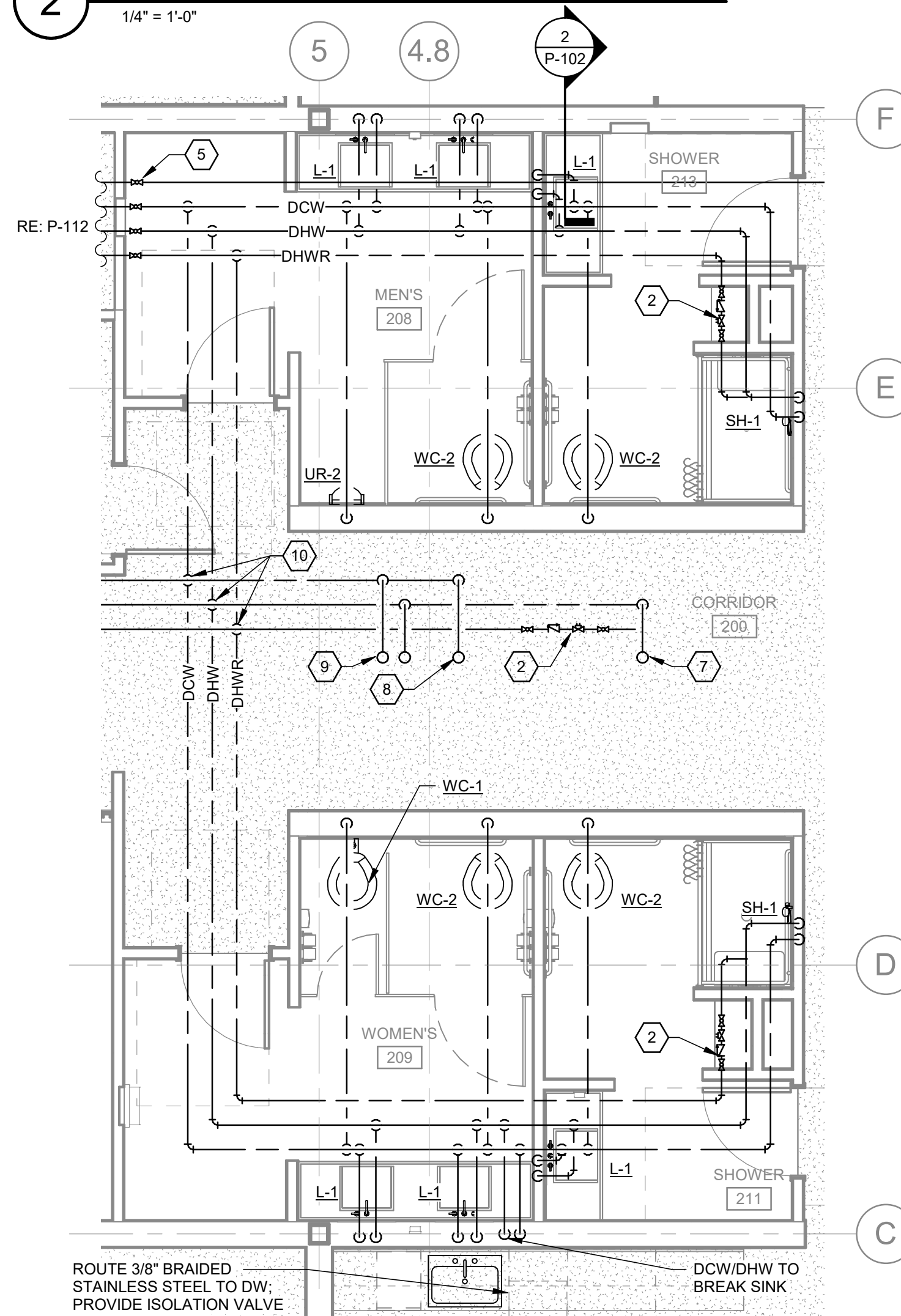
FIRST FLOOR ENLARGED DWV PLAN
1/4" = 1'-0"



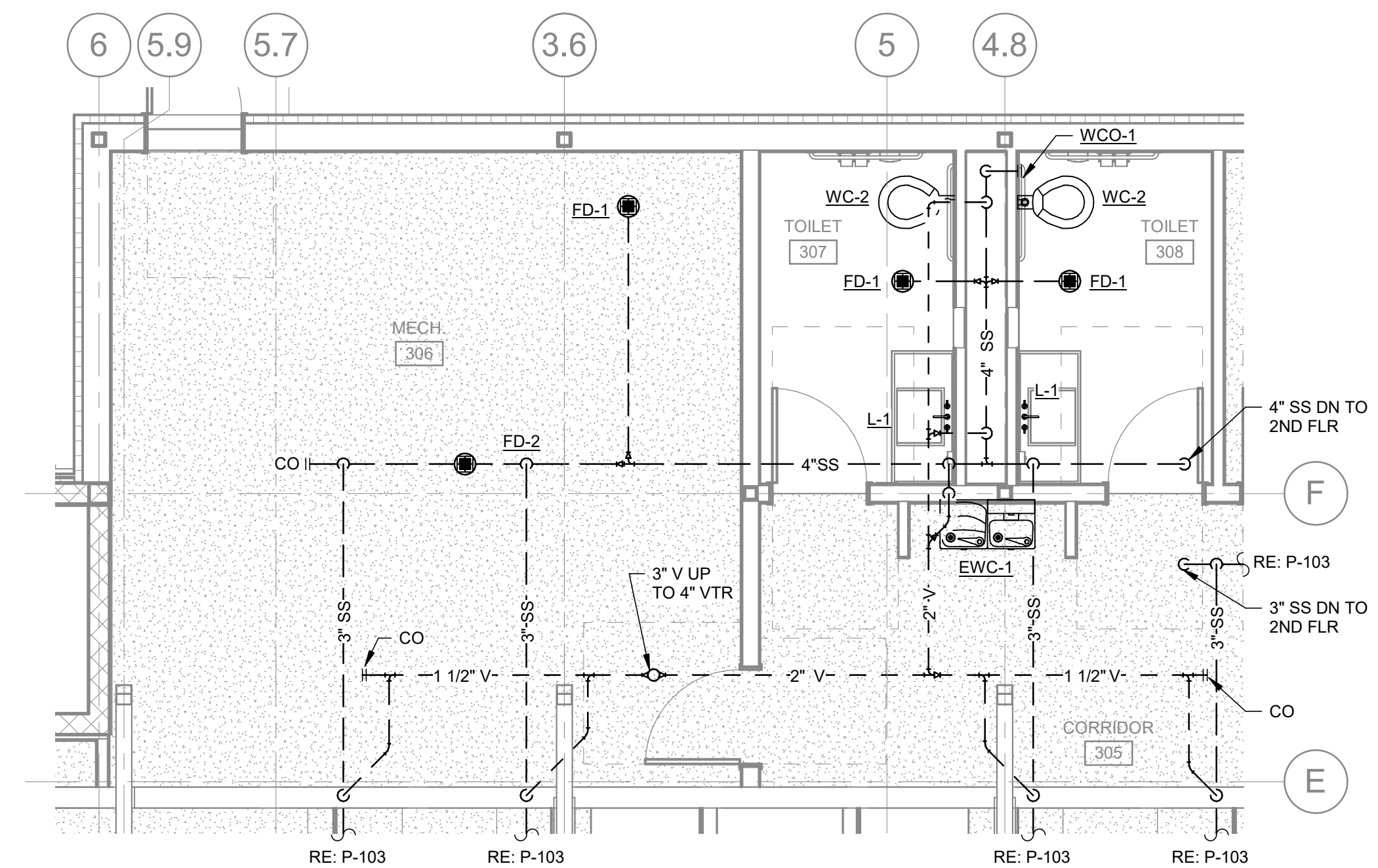
SECOND FLOOR ENLARGED DWV PLAN
1/4" = 1'-0"



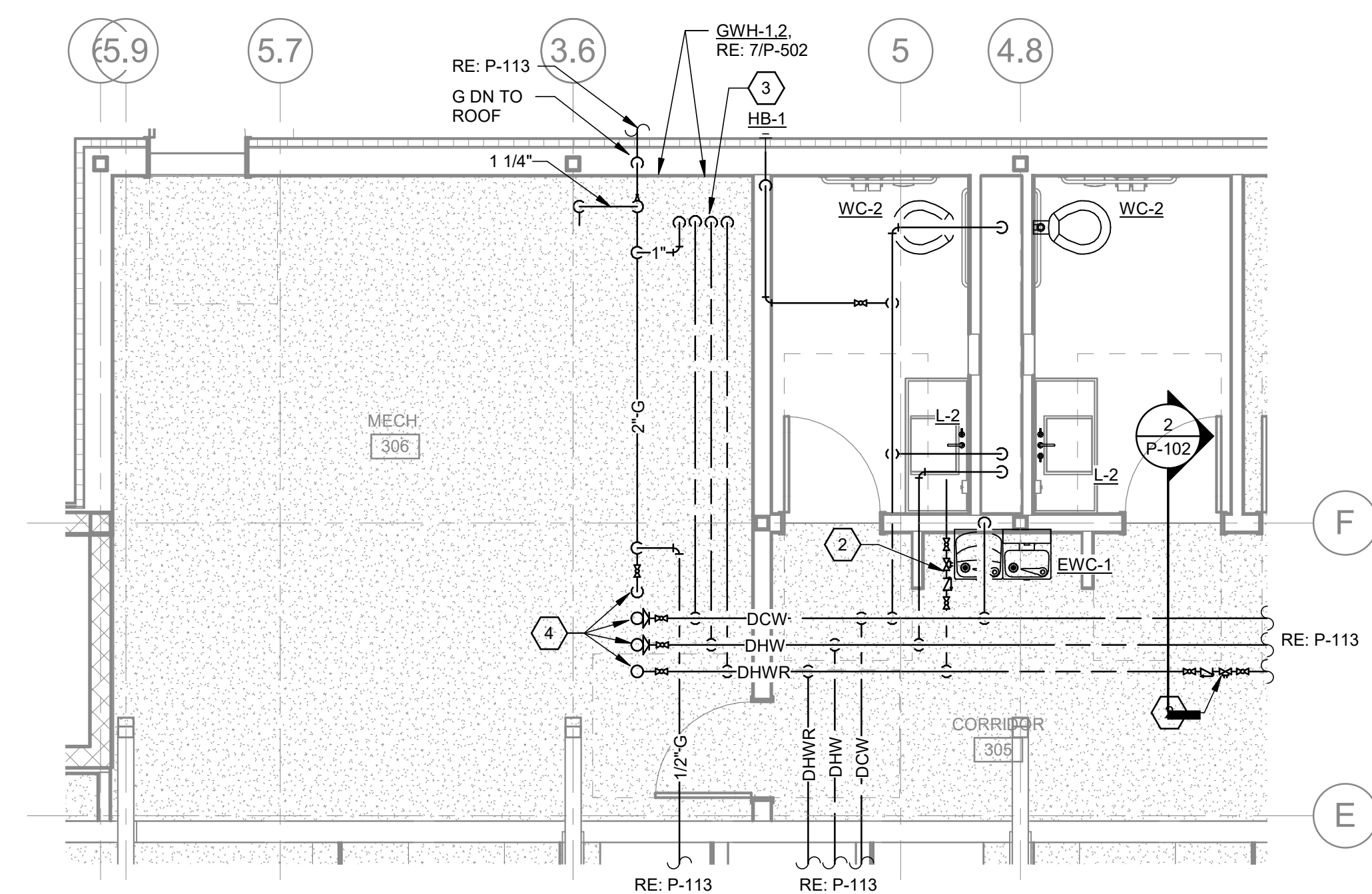
FIRST FLOOR ENLARGED WAG PLAN
1/4" = 1'-0"



SECOND FLOOR ENLARGED WAG PLAN
1/4" = 1'-0"



THIRD FLOOR ENLARGED DWV PLAN
1/4" = 1'-0"



THIRD FLOOR ENLARGED WAG PLAN
1/4" = 1'-0"

KEYNOTES	
1.	SS DN FROM 2ND FLR. PROVIDE CLEANOUT AT BASE OF RISER.
2.	PROVIDE DHWR VALVES PER DETAIL 12/P-501. PROVIDE ACCESS PANELS WHERE VALVES ARE LOCATED ABOVE HARD CEILINGS. COORDINATE LOCATION OF VALVES WITH OTHER ACCESS PANELS REQUIRED FOR WAG AND DWV SERVICES TO MINIMIZE TOTAL NUMBER OF ACCESS PANELS IN CEILING.
3.	DCW, DHW, DHWR, 1" G DN TO GWH-1.2.
4.	DCW, DHW, DHWR, 2" G UP FROM 2ND FLR.
5.	PROVIDE ACCESS PANEL FOR ISOLATION VALVES.
6.	SS ABOVE CEILING.
7.	DHW UP TO GLASS WASHER.
8.	DCW TO ICE MAKER.
9.	DCW/DHW UP TO HAND SINK. S
10.	PROVIDE ISOLATION BALL VALVE IN THE VERTICAL TAKEOFF.

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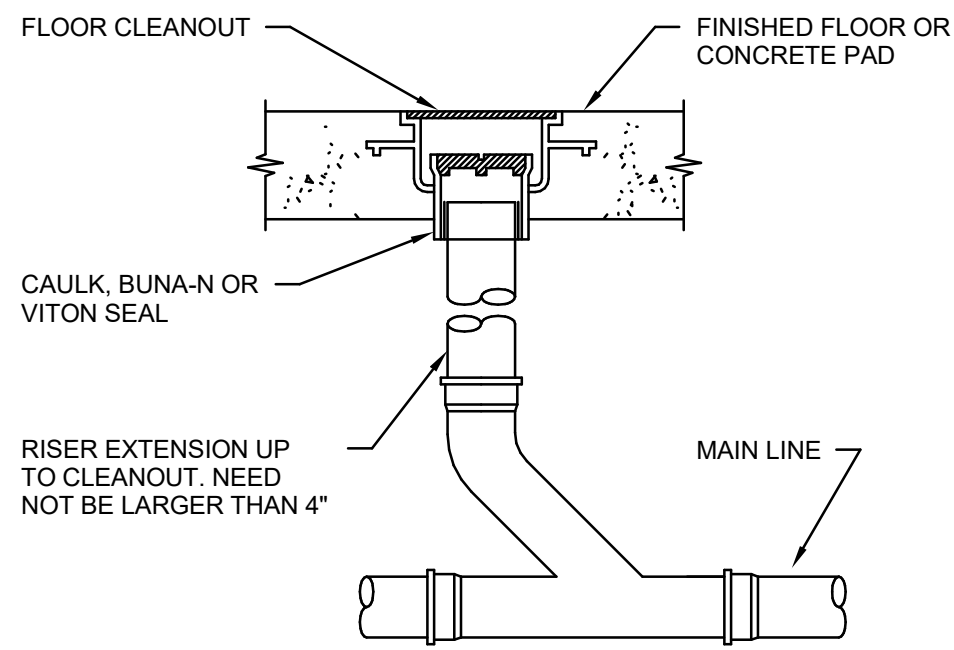
ENLARGED PLUMBING PLANS

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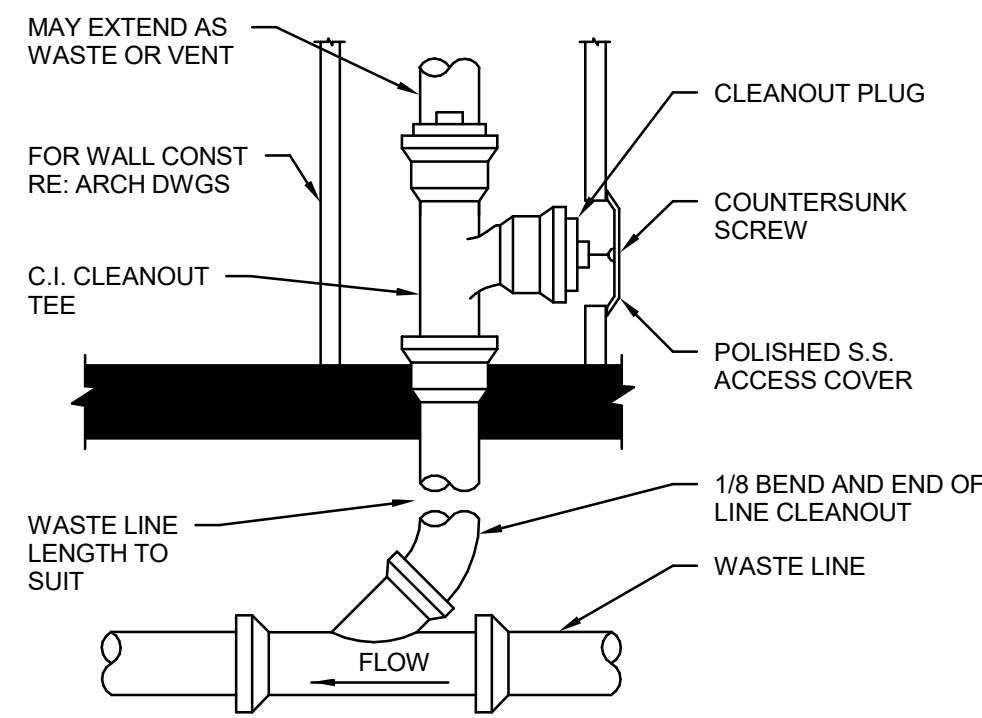
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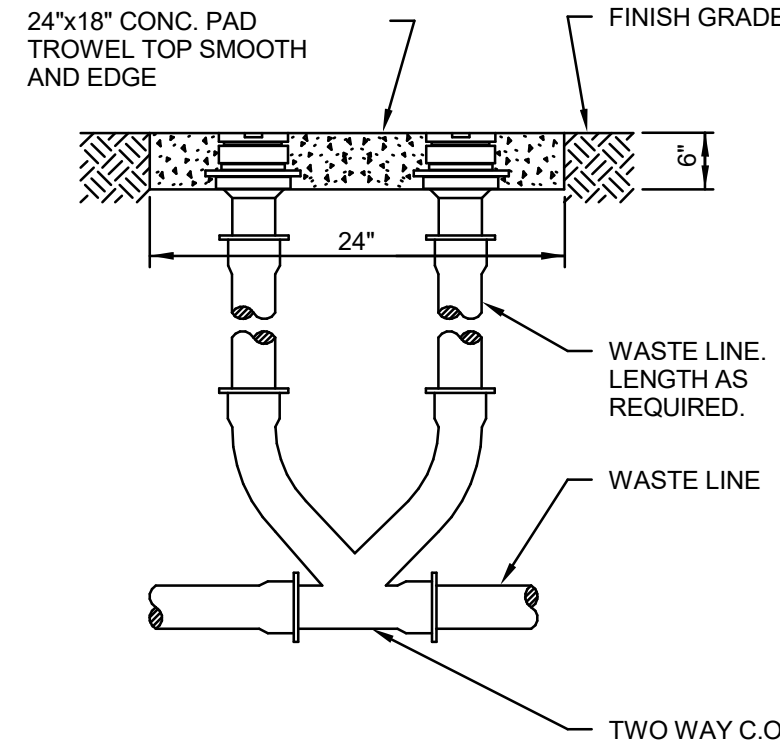
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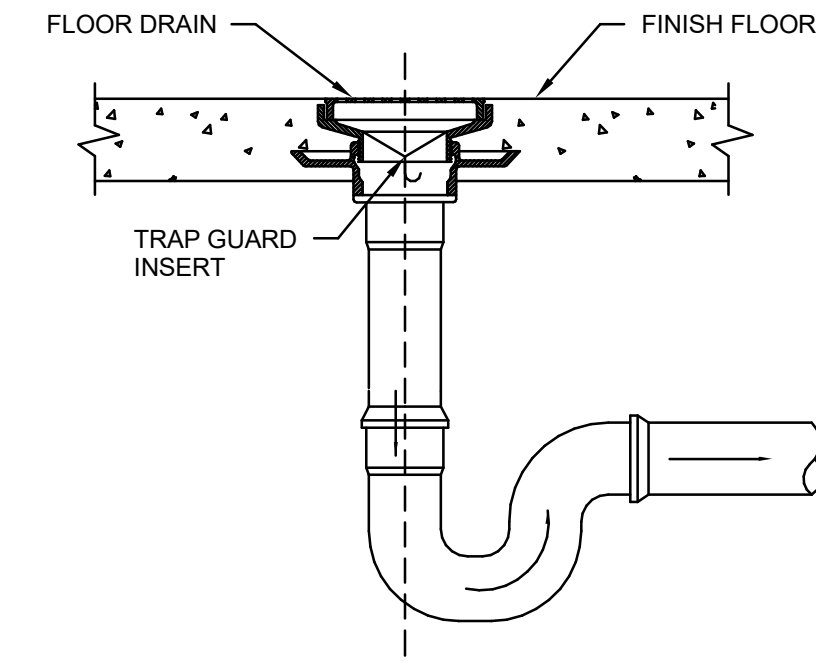
1 FLOOR CLEANOUT DETAIL
NOT TO SCALE



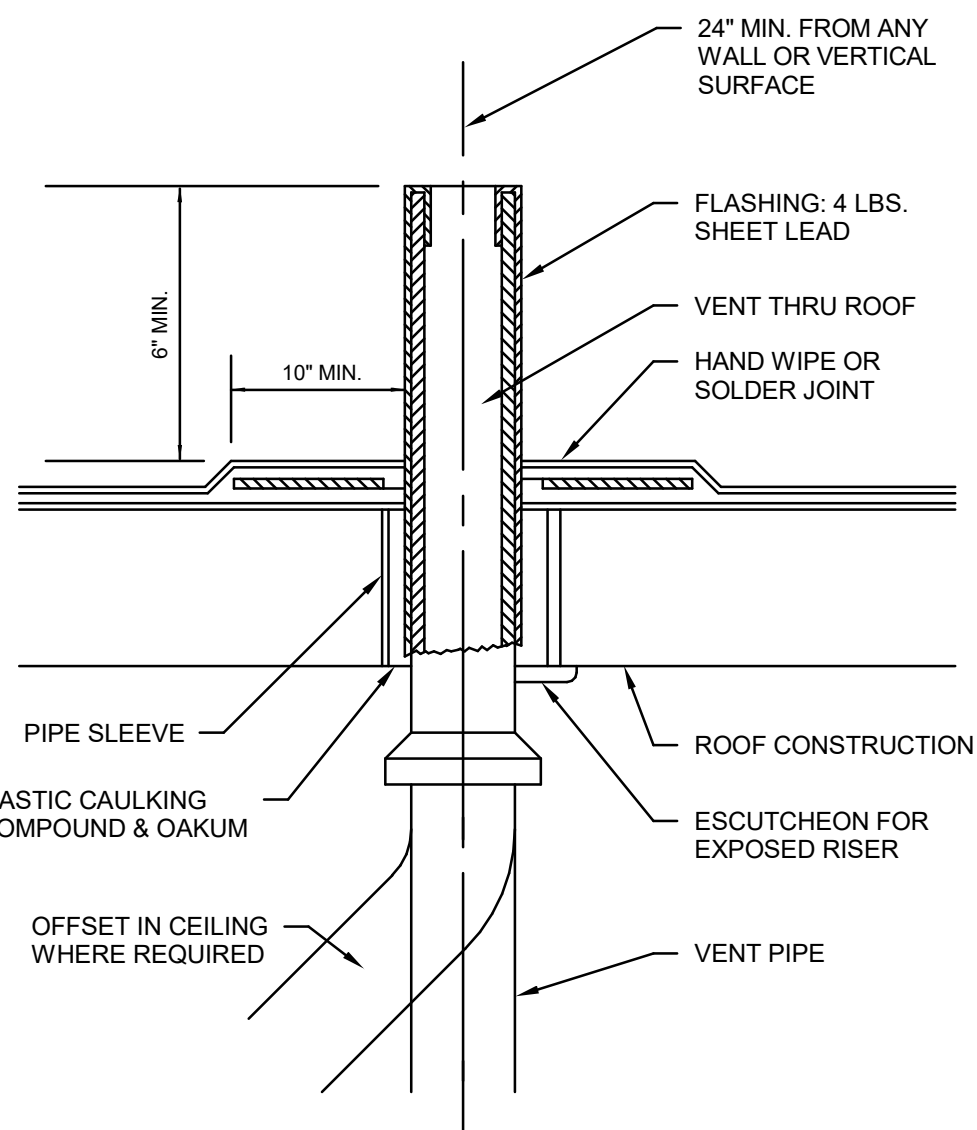
2 WALL CLEANOUT DETAIL
NOT TO SCALE



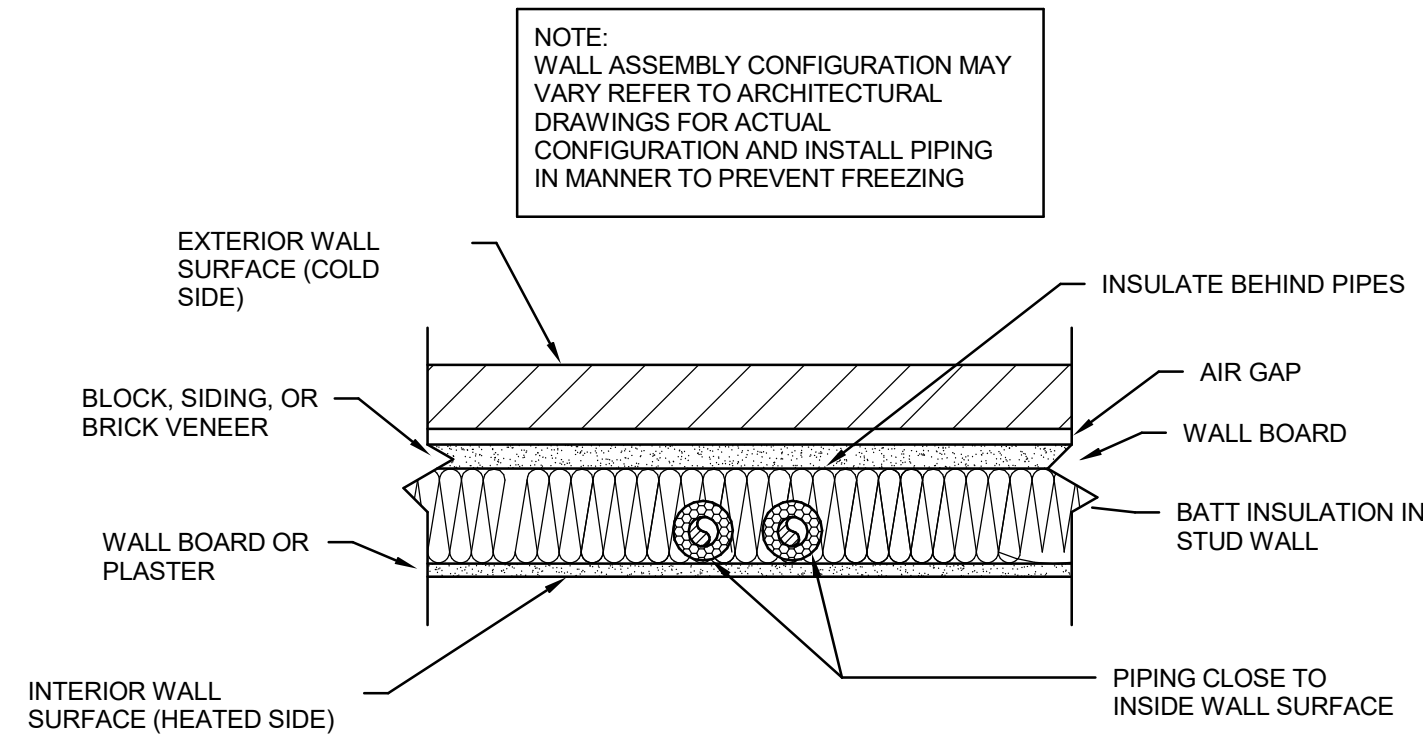
3 GRADE CLEANOUT DETAIL
NOT TO SCALE



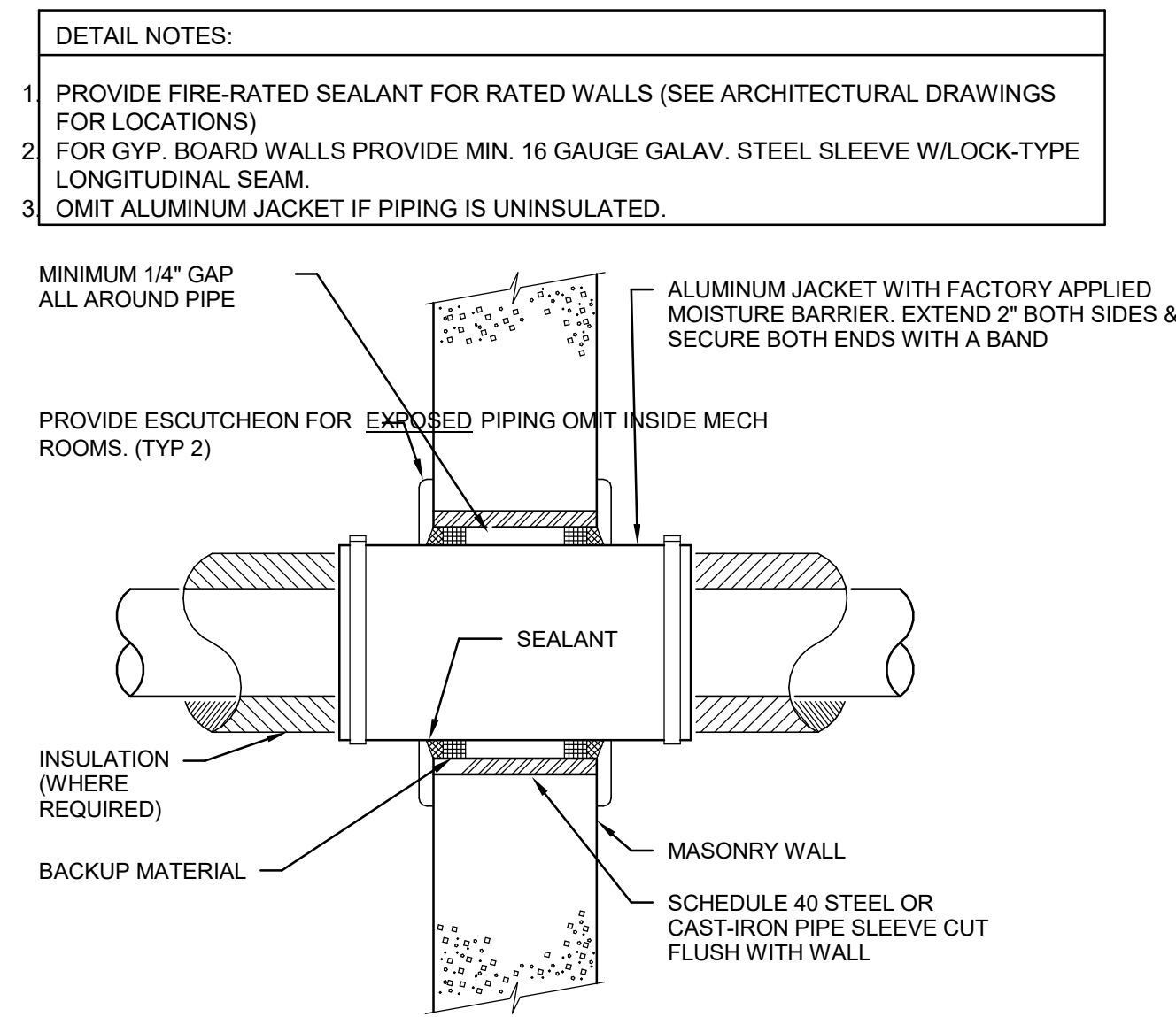
4 FLOOR DRAIN DETAIL
NOT TO SCALE



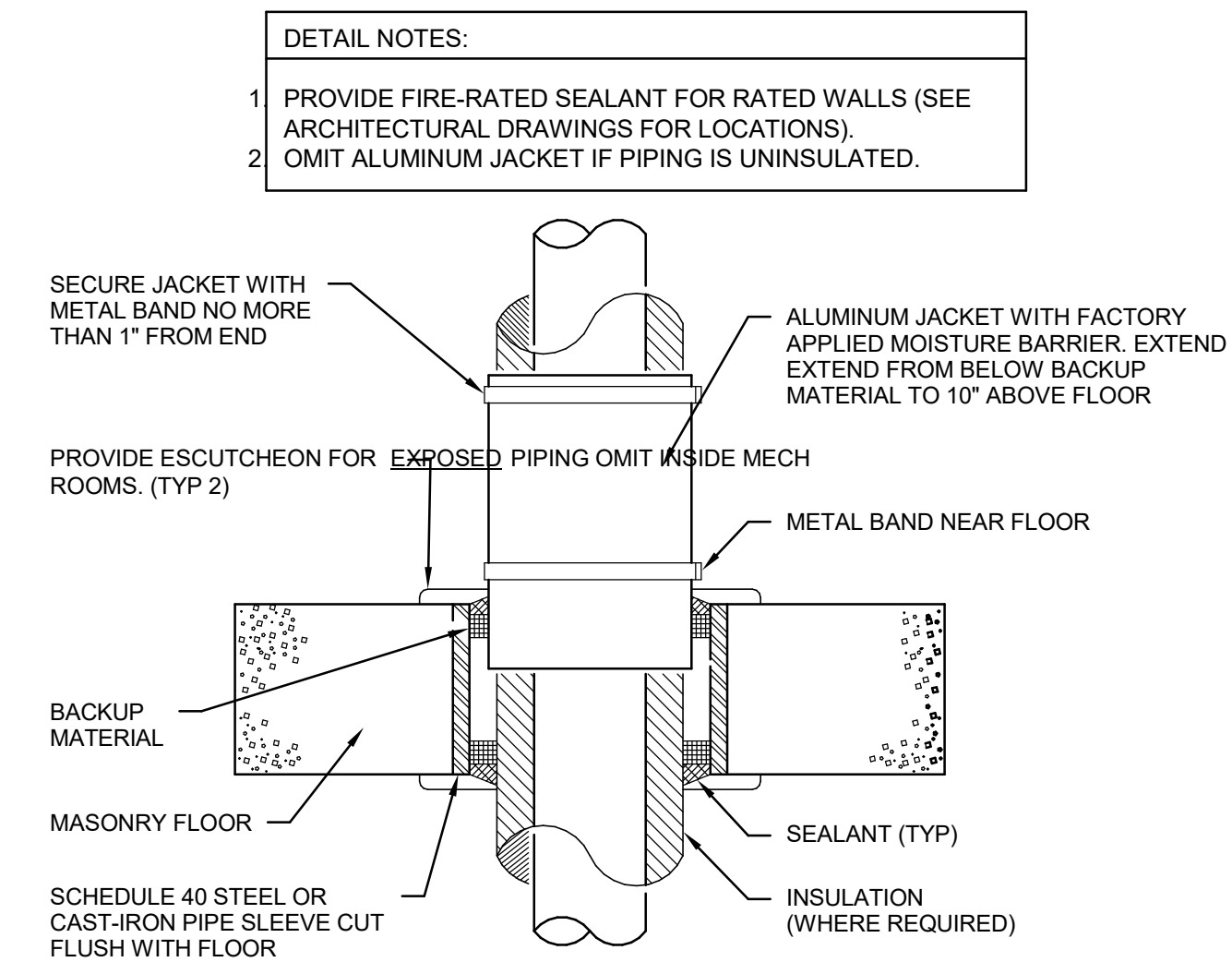
5 VENT THROUGH ROOF DETAIL
NOT TO SCALE



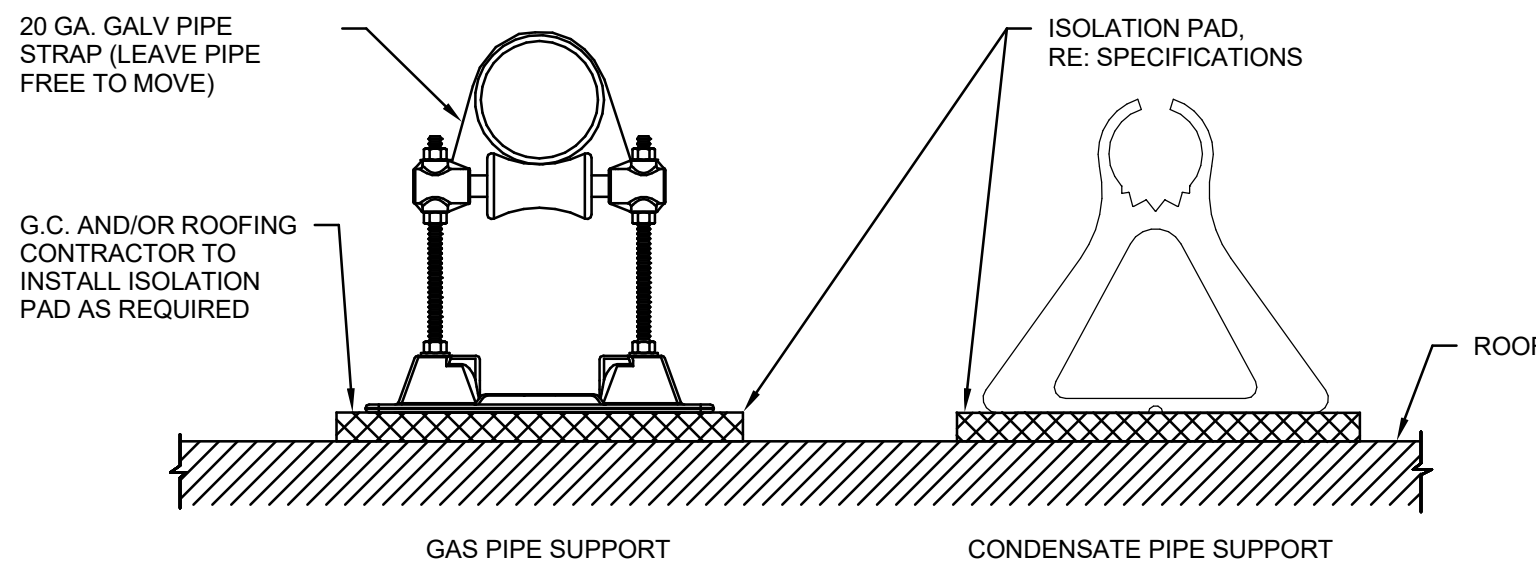
6 PIPING IN EXTERIOR WALL DETAIL
NOT TO SCALE



7 TYPICAL PENETRATION DETAIL
NOT TO SCALE

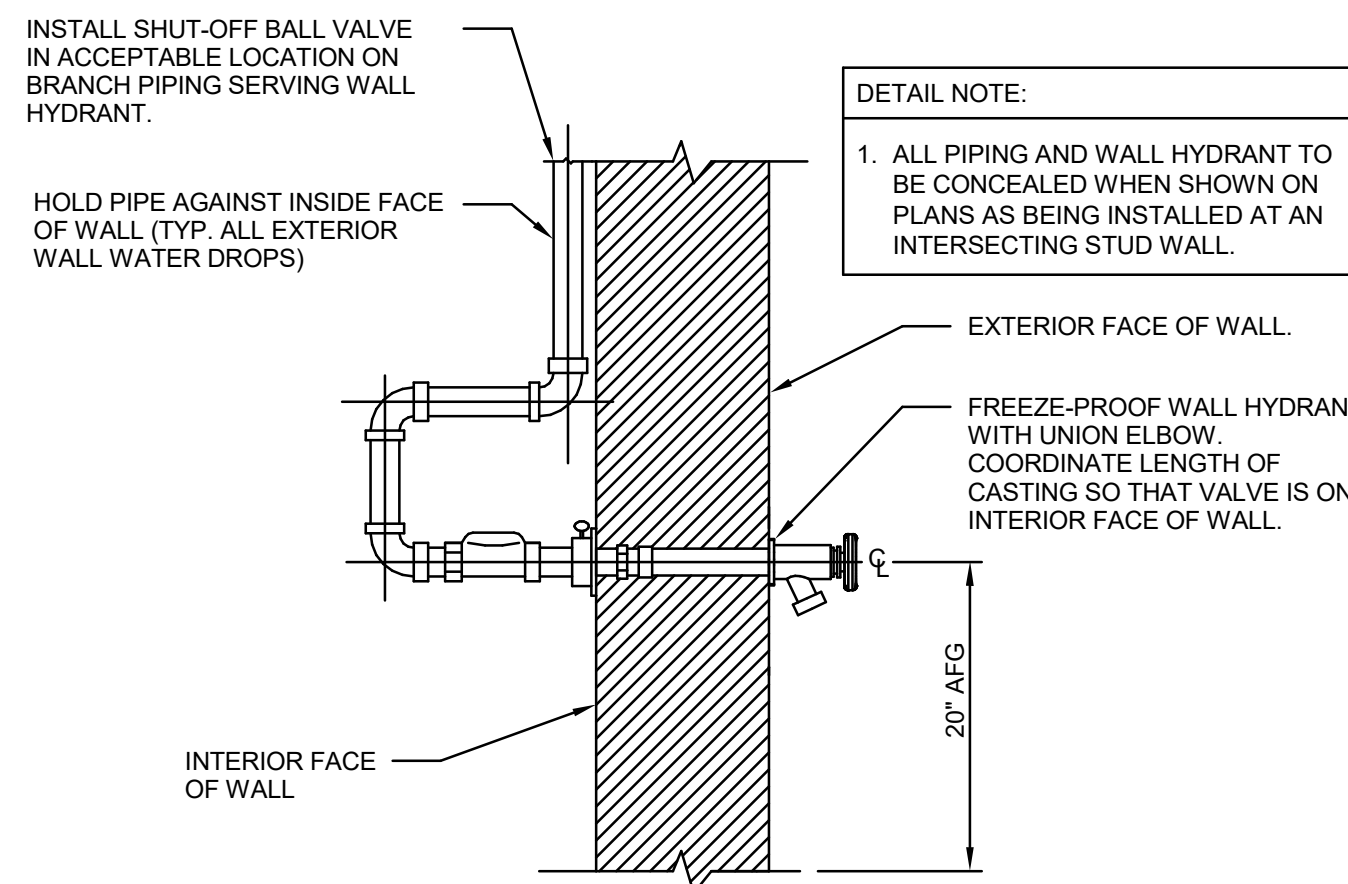


8 FLOOR PENETRATION DETAIL
NOT TO SCALE



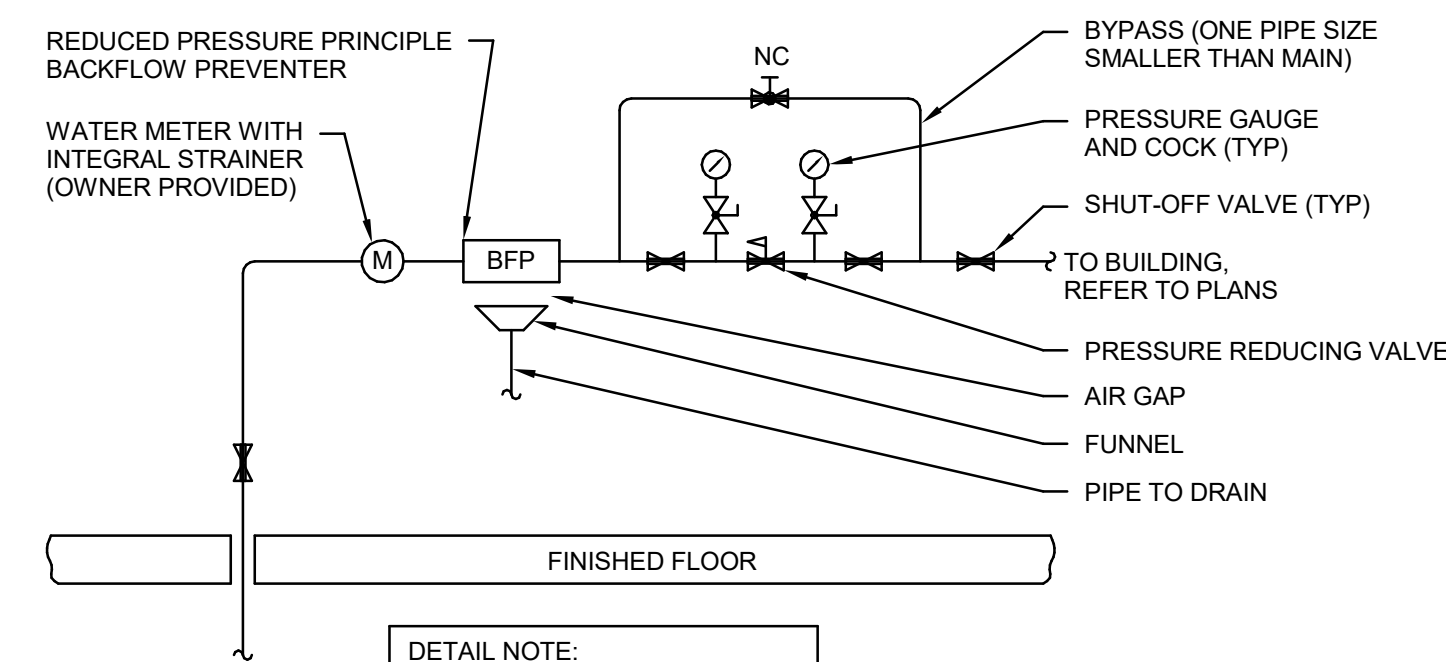
DETAIL NOTE:
1. PIPE SUPPORTS TO BE SPACED PER SPECIFICATIONS FOR PIPE SIZE. (10'-0" O.C. MAXIMUM SPACING) SUPPORT PIPE PARALLEL TO ROOF SLOPE.

9 ROOF PIPE SUPPORT DETAIL
NOT TO SCALE



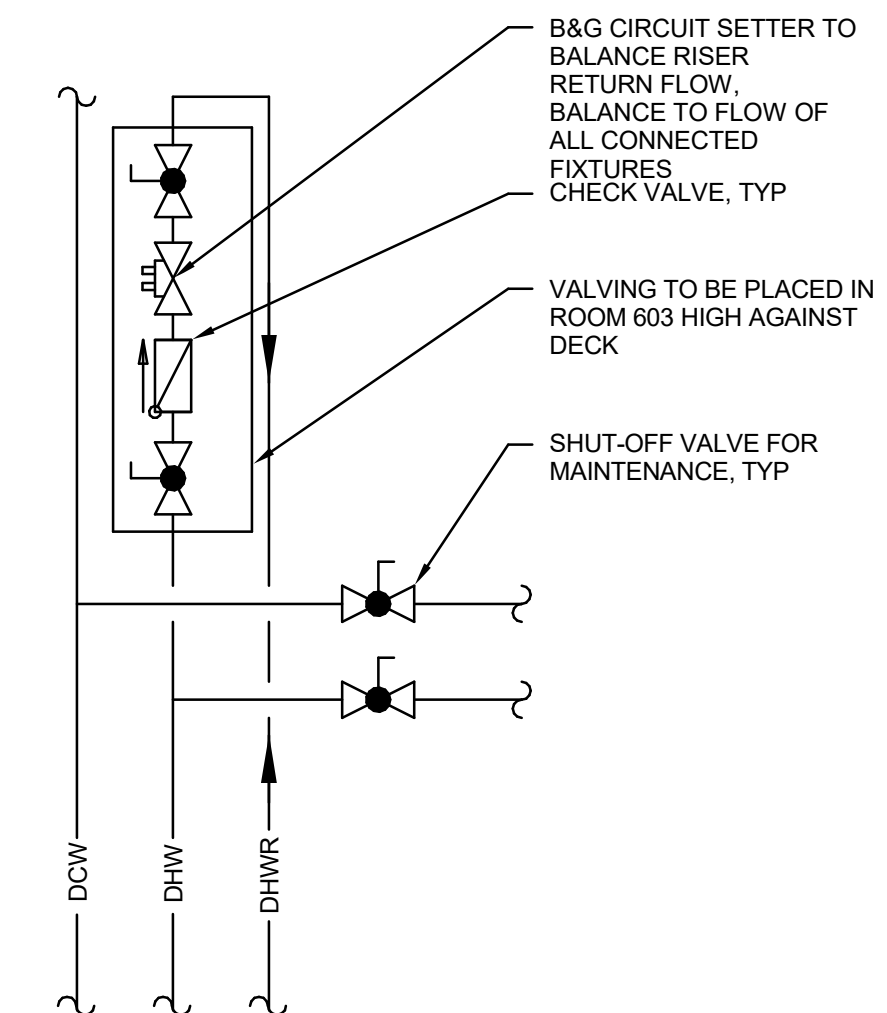
DETAIL NOTE:
1. ALL PIPING AND WALL HYDRANT TO BE CONCEALED WHEN SHOWN ON PLANS AS BEING INSTALLED AT AN INTERSECTING STUD WALL.

10 FREEZE PROOF WALL HYDRANT DETAIL
NOT TO SCALE

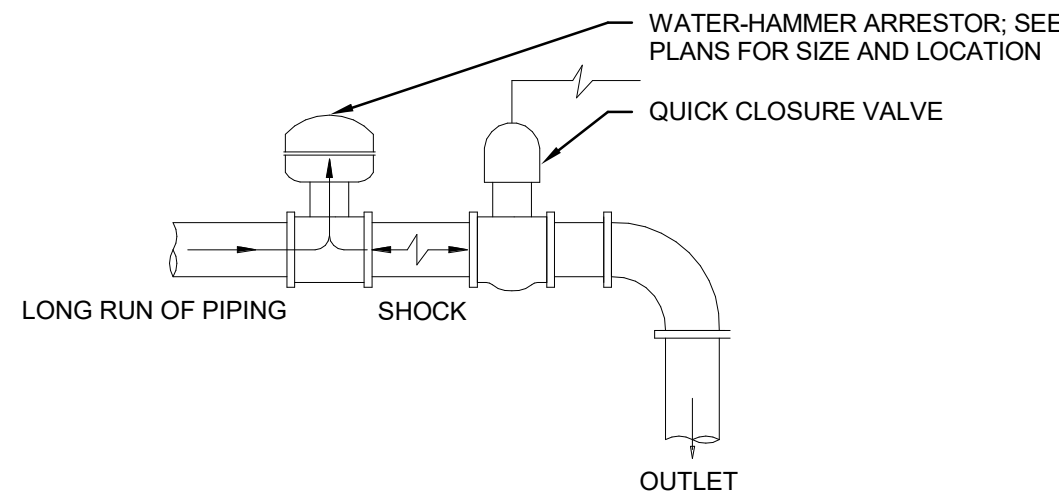


DETAIL NOTE:
1. REFER TO PLANS FOR SIZES.

11 DOMESTIC WATER ENTRY DETAIL
NOT TO SCALE



12 DOMESTIC WATER RETURN SCHEMATIC
NOT TO SCALE

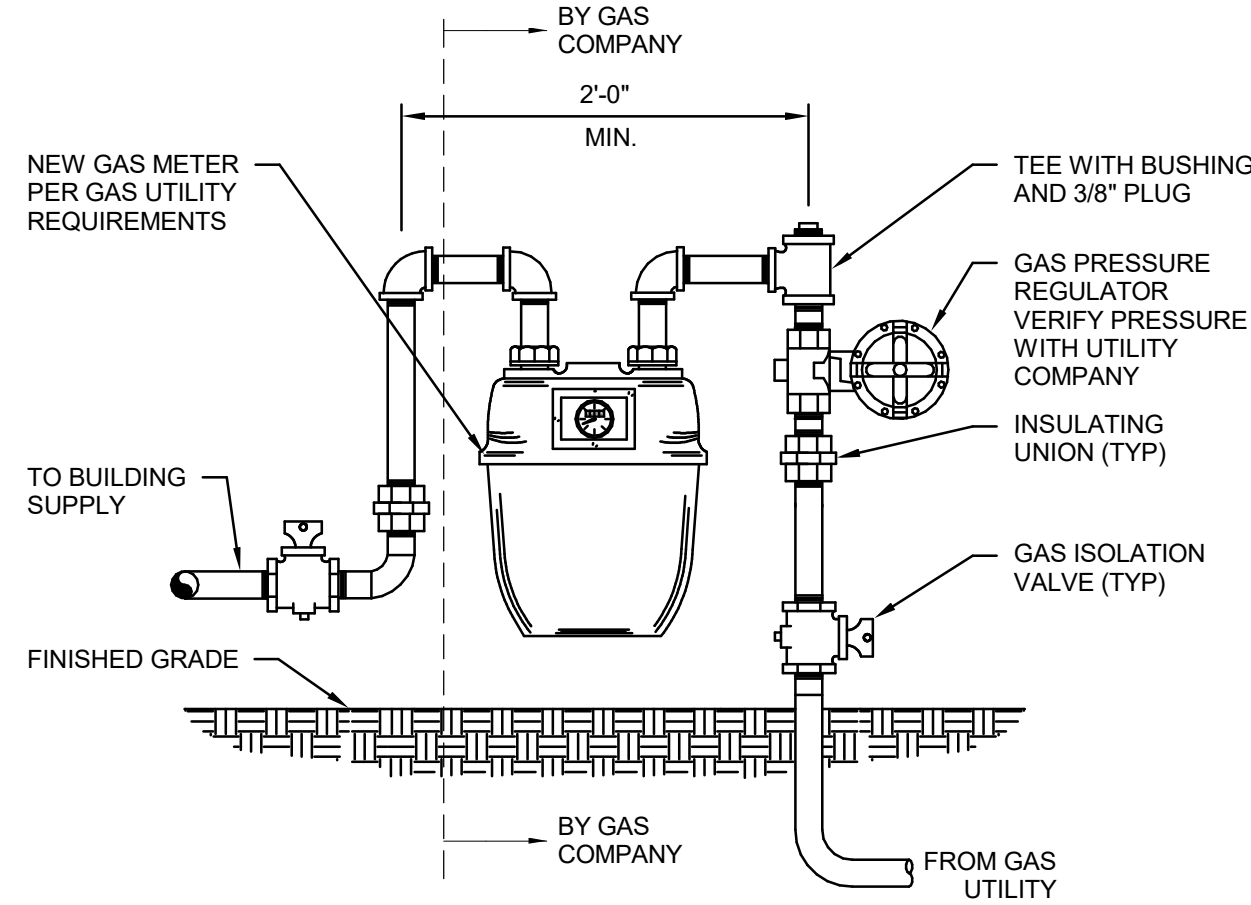


- NOTES:
1. WATER-HAMMER ARRESTOR SIZED ACCORDING TO PLUMBING AND DRAINAGE INSTITUTE (PDI) RATING.
 2. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 3. LOCATE WATER-HAMMER ARRESTORS CLOSE TO ACCESS DOORS PROVIDED BY ARCHITECT. SEE ARCHITECTURAL PLANS FOR ACCESS DOOR LOCATIONS.

WATER-HAMMER ARRESTOR DETAIL

1

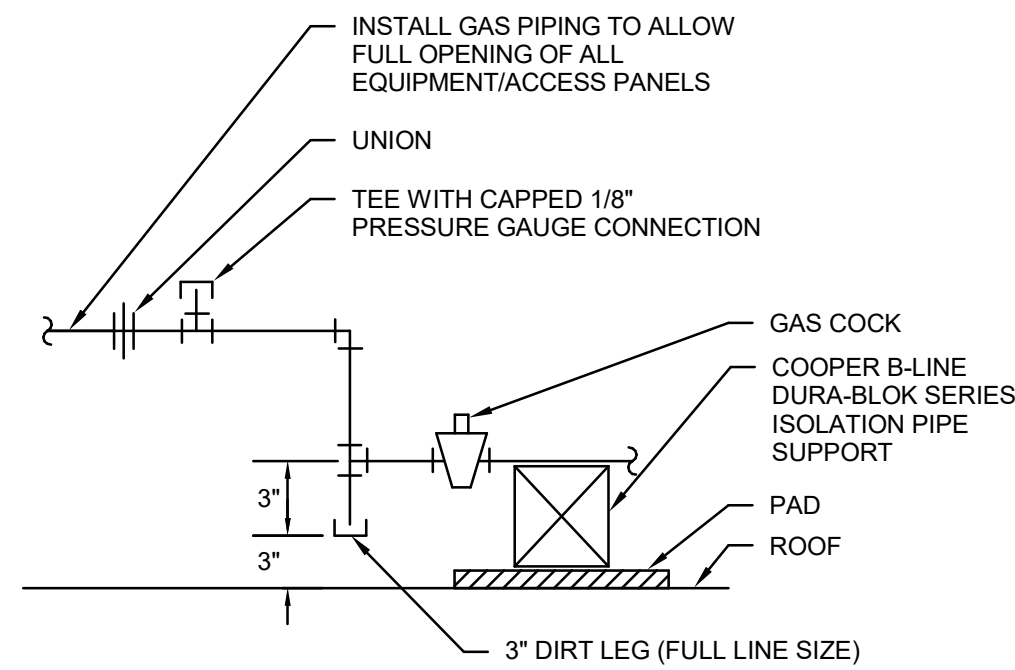
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GAS METER DETAIL

2

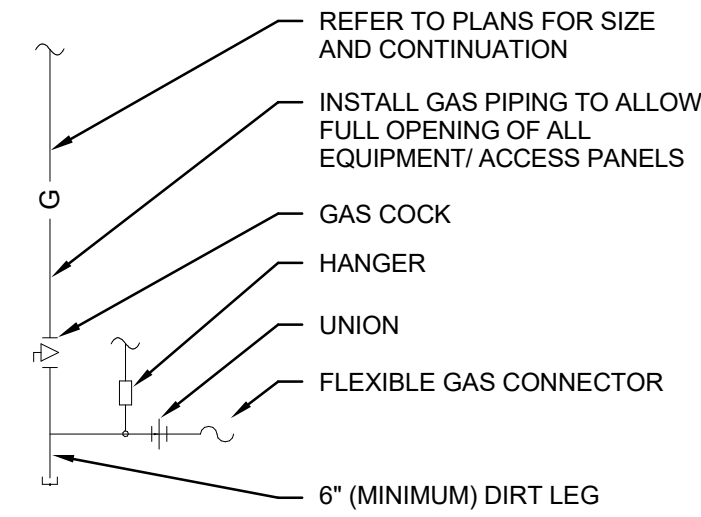
NOT TO SCALE



GAS CONNECTION DETAIL

3

NOT TO SCALE



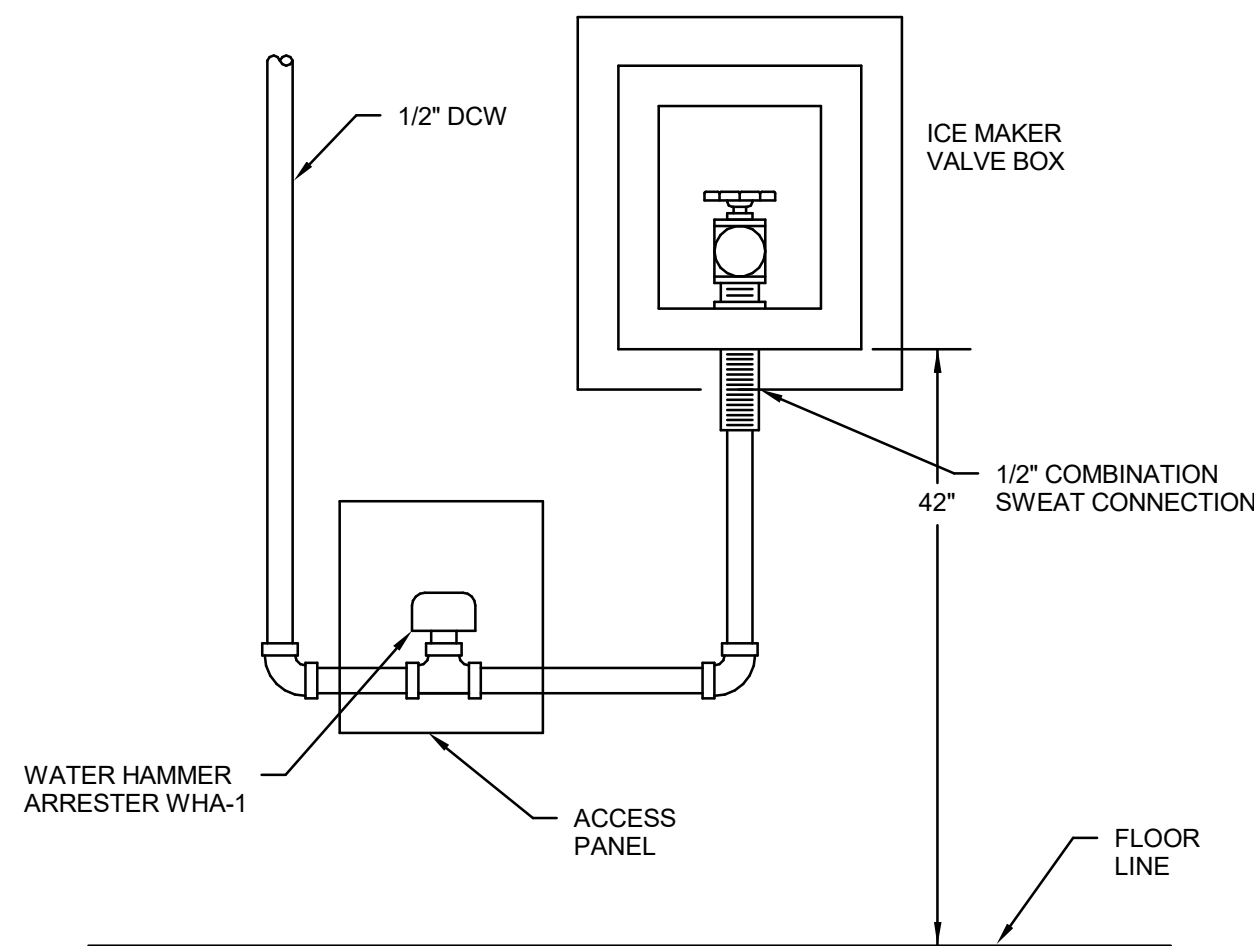
DETAIL NOTE:

1. THE CONTRACTOR SHALL INSTALL THE GAS TRAIN PER THE SPECIFIC APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER ALL LOCAL CODES AND ORDINANCES. THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT.

GAS CONNECTION DETAIL

4

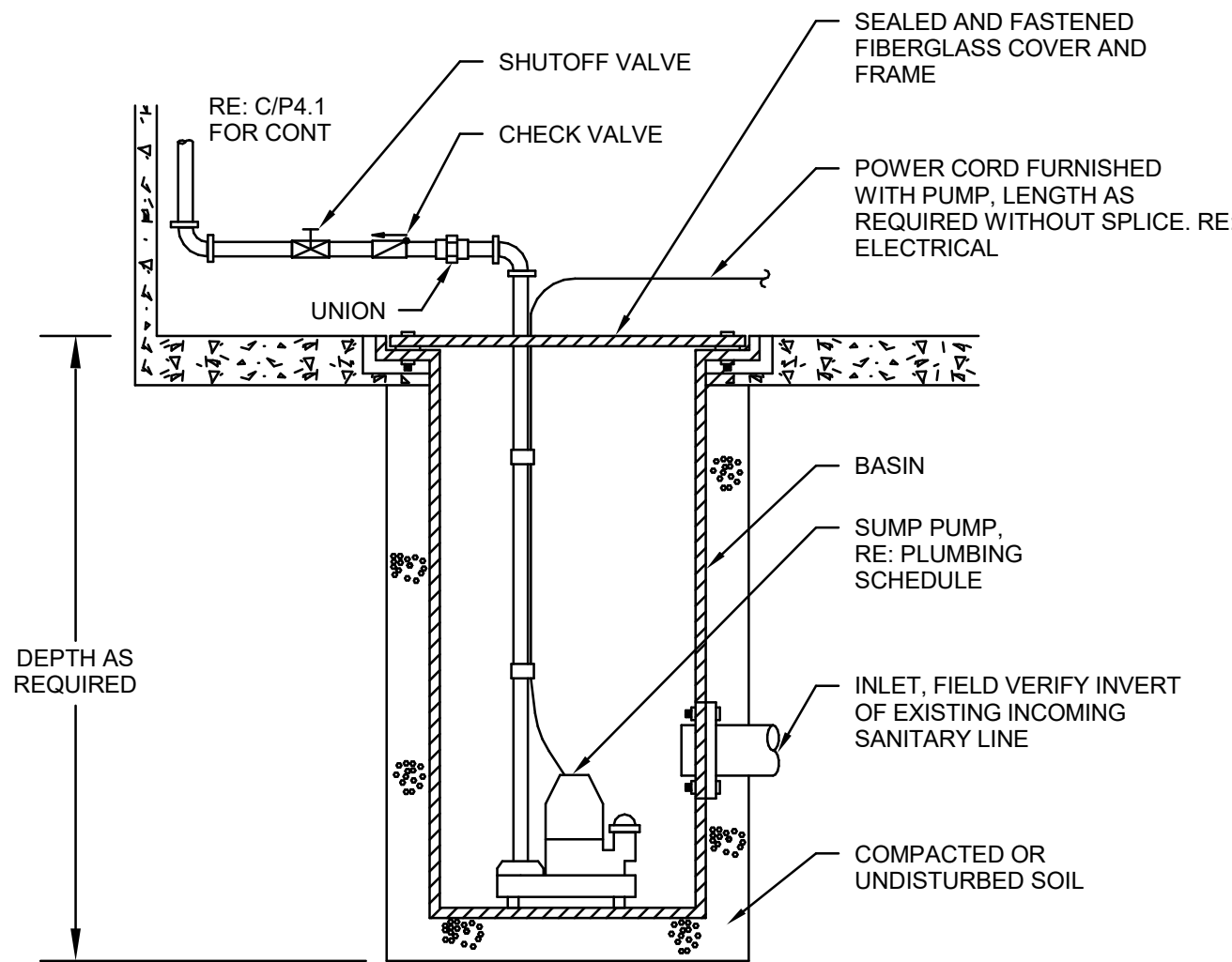
NOT TO SCALE



ICE MAKER UTILITY BOX DETAIL

5

NOT TO SCALE



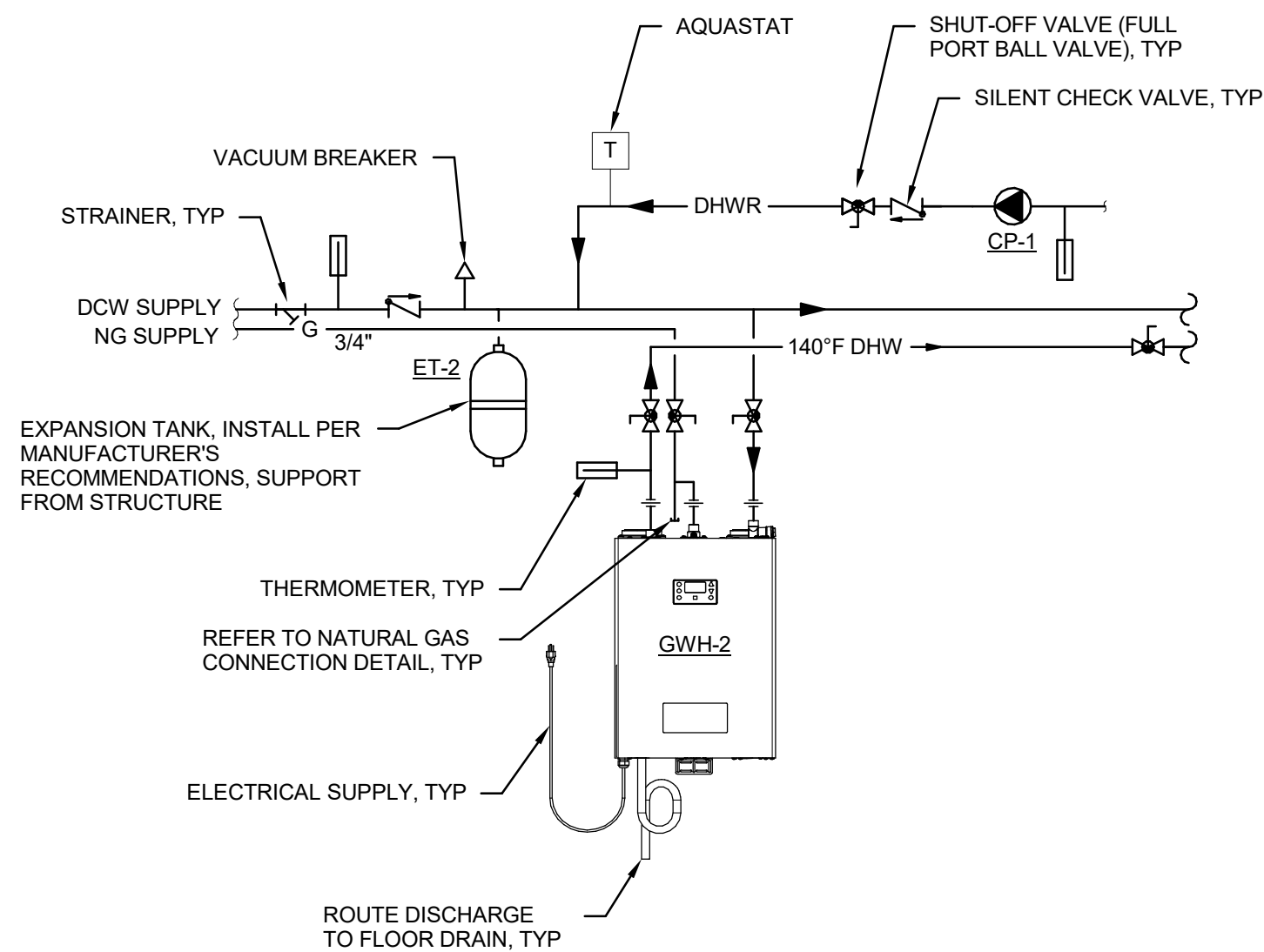
DETAIL NOTE:

1. SUMP DIMENSIONS SHALL MATCH EXISTING SUMP DIMENSIONS, BUT SHALL NOT BE LESS THAN 18 INCHES IN DIAMETER AND 24 INCHES DEEP.

SUMP PUMP DETAIL

6

NOT TO SCALE



DETAIL NOTE:

1. INSTALL THE HOT WATER HEATER, EXPANSION TANK AND THERMOSTATIC MIXING VALVES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER LOCAL CODE.
2. SEE PLANS AND P-601 FOR GAS RUNOUT SIZES.
3. DETAILS ARE SCHEMATIC. DO NOT INSTALL PIPING IN SUCH A WAY THAT CLEARANCES OR ACCESS REQUIREMENTS ARE IMPEDED.

GAS WATER HEATING SYSTEM DETAIL

7

NOT TO SCALE



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**PLUMBING
DETAILS**

SHEET NUMBER:

P-502

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ROOF & FLOOR DRAIN SCHEDULE								
MARK	FIXTURE	MANUFACTURER MODEL	TRIM	CONNECTIONS				REMARKS
				WASTE	VENT	DCW	DHW	
FD-1	SQUARE FLOOR DRAIN	ZURN ZN-415-S	6" SQUARE ADJUSTABLE NICKEL-BRONZE STRAINER	3"	2"	1/2"	--	1,2,7
FD-2	CONDENSATE FLOOR DRAIN	ZURN ZN-415-I	5" DIAMETER ROUND ADJUSTABLE NICKEL-BRONZE STRAINER WITH RAISED FLANGE	3"	2"	1/2"	--	1,2,7,8
FS-1	FLOOR SINK	ZURN Z-1901-KC-2-23	12X12X8 DEEP CAST IRON BODY AND SLOTTED MEDIUM DUTY $\frac{1}{2}$ GRATE	3"	2"	1/2"	--	1,2,5,7
PRD-1	PRIMARY ROOF DRAIN	ZURN ZC-100	15" DIAMETER ROOF DRAIN	--	--	--	--	3,9
SRD-1	SECONDARY ROOF DRAIN	ZURN ZC-100-AW	15" DIAMETER ROOF DRAIN	--	--	--	--	4,9
DSN-1	DOWNSPOUT NOZZLE	ZURN Z-199	ALL POLISHED BRONZE BODY	--	--	--	--	6
SD-1	SHOWER DRAIN	ZURN Z-415-B	5" DIAMETER ROUND ADJUSTABLE NICKEL-BRONZE STRAINER	3"	2"	--	--	6
REMARKS: 1. REFER TO ARCHITECTURAL FOR FLOOR DRAIN LOCATIONS, COORDINATE WITH FLOOR FINISH AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. 2. DURA-COATED CAST IRON BODY WITH DOUBLE FLANGE, WEEP HOLES, COMBINED TWO PIECE BODY REVERSIBLE CLAMPING DEVICE AND ADJUSTABLE NICKEL-BRONZE STRAINER. PROVIDE FUNNELS AT FLOOR DRAINS RECEIVING CONDENSATE. 3. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, UNDERDECK CLAMP AND LOW SILHOUETTE CAST-IRON DOME. 4. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ADJUSTABLE STAND PIPE AND CAST IRON DOME STRAINER. 5. WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP COMPLETE WITH ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER. 6. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH POLISHED NICKEL BRONZE STRAINER. 7. PROVIDE TRAP PRIMER CONNECTION AND PRESSURE DROP ACTIVATED TRAP PRIMER - MIFAB MODEL (M-500). 8. INSTALL DRAIN BODY SO TOP OF FLANGE IS LEVEL WITH FLOOR. DRAIN GRATE SHOULD BE RECESSED. 9. PROVIDE INSULATION ON UNDERSIDE OF ROOF DRAIN BODY. ALL HORIZONTAL PIPING CONNECTED ROOF DRAIN SHOULD BE INSULATED.								

GAS WATER HEATER SCHEDULE							
MARK	MANUFACTURER MODEL	AREA SERVED	GPM	TEMPERATURE RISE (°F)	GAS INPUT (MBH)	LISTING	REMARKS
GWH-1,2	RINNAI CU199IN	HOT WATER SERVICE	4.2	90	199	AGA, UL	ALL
REMARKS: 1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR 2. THERMAL EXPANSION TANK FURNISHED AND INSTALLED BY CONTRACTOR. 3. SET DISCHARGE TEMPERATURE OF WATER HEATER TO OPERATE AT 140°F. 4. FIELD VERIFY SITE GAS PRESSURE AND PROVIDE UNIT WITH COMPATIBLE GAS TRAIN. PROVIDE VENT FROM PRESSURE REDUCING VALVE (IF REQUIRED) TO OUTDOORS. 5. TEMPERATURE AND PRESSURE RELIEF VALVE FURNISHED AND INSTALLED BY CONTRACTOR.							

NATURAL GAS SUMMARY SCHEDULE						
APPLIANCE MARK	QUANTITY	GAS LOAD (MBH)	CONNECTION SIZE (IN)	MAX DEVELOPED DISTANCE FROM REGULATOR (FT)	MAIN SIZE (IN)	
RTU-1	1	280	1			
GWH-1	1	199	3/4			
GWH-2	1	199	3/4			
B-1	1	500	1 1/4			
LOUNGE FIREPLACE	1	75	1/2	250		
CEO FIREPLACE	1	75	1/2			
BUILDING TOTAL		1328			2"	
NOTES:						
1. SIZING BASED ON THE XXX FT COLUMN OF TABLE 402.4(1) OF THE 2009 INTERNATIONAL FUEL GAS CODE.						
2. * DENOTES FURTHEST FIXTURE FROM NATURAL GAS REGULATOR.						
3. BASED UPON LOW PRESSURE NATURAL GAS 10" WC.						

PUMP SCHEDULE								
MARK	MANUFACTURER MODEL	SERVICE	GPM	TDH (FT)	MOTOR			REMARKS
					HP	RPM	ELEC	
SP-1	GRUNDFOS AP12.40.04/A.1	SUMP	50	16	0.65	--	120V/1PH	1,2,3,4,7
CP-1	GRUNDFOS MAGNA32-100FN	HOT WATER RECIRCULATION	10	10	1/6	VARIABLE	120V/1PH	1,2,6
REMARKS: 1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR 2. REFERENCE DETAIL AND SPECIFICATIONS FOR CONTROLS AND PIPING REQUIREMENTS. 3. PROVIDE UNIT WITH FLOAT TYPE START/STOP SWITCH. 4. PROVIDE WITH OPTIONAL AUTOMATIC TIMER KIT (MODEL TC-1), AQUASTAT (MODEL AQ-3/4) AND 20 FOOT PLUG TYPE POWER CORD, FURNISHED AND INSTALLED BY CONTRACTOR. 5. PROVIDE UNIT WITH 120 VOLT LIQUID LEVEL ALARM PANEL, SJE RHOMBUS MODEL TANK ALERT I WITH ALARM HORN, WARNING LIGHT, "POWER ON" LIGHT, AND HIGH LEVEL FLOAT SWITCH. MOUNT FLOAT SWITCH AT A LEVEL ABOVE BOTH SUMP PUMP START SETTINGS. 6. MOTOR SHALL BE VARIABLE SPEED WET ROTOR, PERMANENT-MAGNET ROTOR, STAINLESS STEEL COMPONENTS. 7. PROVIDE WITH OIL SMART ALARM SIMPLEX CONTROL PANEL. (NTD: DELETE THIS OPTION IF ELEVATOR IS NOT HYDRAULIC)								

MARK	FIXTURE	MANUFACTURER MODEL	TRIM	CONNECTIONS				REMARKS
				WASTE	VENT	DCW	DHW	
WC-1	WATER CLOSET (FLOOR MOUNT, FLUSH VALVE, SIPHON JET)	ZURN Z5654-BWL	FLUSH VALVE: ZURN MODEL ZER6000PL-HET-CPM 1.28 GPF; SEAT: ZURN MODEL Z5955SS-EL OPEN FRONT ELONGATED; FIXTURE COLOR: WHITE	4"	2"	1"	--	1,2
WC-1	WATER CLOSET (WALL HUNG, FLUSH VALVE, SIPHON JET)	ZURN Z5615-BWL	FLUSH VALVE: ZURN MODEL ZER6000PL-HET-CPM 1.28 GPF; SEAT: ZURN MODEL Z5955SS-EL OPEN FRONT ELONGATED; CARRIER: ZURN MODEL Z1201/1202; FIXTURE COLOR: WHITE	4	2"	1"	--	1,2
WC-2	WATER CLOSET (FLOOR MOUNT, FLUSH VALVE, SIPHON JET, ADA)	ZURN Z5665-BWL	FLUSH VALVE: ZURN MODEL ZER6000PL-HET-CPM 1.28 GPF; SEAT: ZURN MODEL Z5955SS-EL OPEN FRONT ELONGATED; FIXTURE COLOR: WHITE	4"	2"	1"	--	1,2
WC-2	WATER CLOSET (WALL HUNG, FLUSH VALVE, SIPHON JET, ADA)	ZURN Z5615-BWL	FLUSH VALVE: ZURN MODEL ZER6000PL-HET-CPM 1.28 GPF; SEAT: ZURN MODEL Z5955SS-EL OPEN FRONT ELONGATED; CARRIER: ZURN MODEL Z1201/1202; FIXTURE COLOR: WHITE	4	2"	1"	--	1,2
UR-1	URINAL (WALL HUNG)	ZURN Z5755-UJ	FLUSH VALVE: ZURN MODEL Z6003AV-ULF-CP 0.125 GPF; CARRIER: ZURN MODEL Z1221; FIXTURE COLOR: WHITE	2"	1 1/2"	3/4"	--	1,2
UR-2	URINAL (WALL HUNG, ADA)	ZURN Z5755-UJ	FLUSH VALVE: ZURN MODEL Z6003AV-ULF-CP 0.125 GPF; CARRIER: ZURN MODEL Z1221; FIXTURE COLOR: WHITE	2"	1 1/2"	3/4"	--	1,2
L-1	LAVATORY (COUNTERTOP, SELF-RIMMING, ADA)	ZURN Z5114	FAUCET: ZURN MODEL Z6915-XL 2-HOLE DRILLING ON 4" CENTERS, 0.5 GPM AERATOR; GRID STRAINER DRAIN: ZURN MODEL Z8743-PC; FIXTURE COLOR: WHITE	2"	1 1/2"	1/2"	1/2"	1,4,5,6,7
L-1	LAVATORY (COUNTERTOP, UNDERMOUNT, ADA)	ZURN Z5220	FAUCET: ZURN MODEL Z6915-XL 2-HOLE DRILLING ON 4" CENTERS, 0.5 GPM AERATOR; GRID STRAINER DRAIN: ZURN MODEL Z8743-PC; FIXTURE COLOR: WHITE	2"	1 1/2"	1/2"	1/2"	1,4,5,6,7
L-2	LAVATORY (WALL HUNG, ADA)	ZURN Z5344	FAUCET: ZURN MODEL Z6915-XL 2-HOLE DRILLING ON 4" CENTERS, 0.5 GPM AERATOR; GRID STRAINER DRAIN: ZURN MODEL Z8743-PC; CARRIER: ZURN Z1231; FIXTURE COLOR: WHITE	2"	1 1/2"	1/2"	1/2"	1,4,5,6,7
MSB-1	MOP SERVICE BASIN	ZURN Z1996-24	FAUCET: ZURN MODEL Z843M1-RC; HOSE/CLAMP, MOP HANGER; DOME STRAINER WITH LINT BASKET DRAIN; COLOR: WHITE	2"	2"	3/4"	3/4"	8
EW-2	ELECTRIC WATER COOLER (SPLIT LEVEL, ADA)	OASIS PG8ACSL-STN	SURFACE MOUNTED STAINLESS STEEL CABINET, WITH FRONT AND SIDE PUSH BARS, AND INTEGRAL FLOW CONTROL	2"	1 1/4"	1/2"	--	1,9,10,18
SH-1	SHOWER HEAD/VALVE (HAND HELD, ADA)	ZURN Z7300	SHOWER HEAD/VALVE: ZURN MODEL Z7300-SSC-HW11-MT-VB (PRESS. BALANCE, PRESS. & TEMP. CONTROL); STAINLESS STEEL CURTAIN ROD WITH ANTI-BACTERIAL WHITE VINYL CURTAIN (WITH HOOKS).	--	--	1/2"	1/2"	1
FPWH-1	FREEZE PROOF WALL HYDRANT	ZURN Z1320-NB	AUTOMATIC DRAINING; ANTI-SIPHON VACUUM BREAKER; POLISHED NICKEL BRONZE FINISH; 3/4" HOSE THREAD; WITH FLUSH MOUNTED WALL BOX AND LOOSE TEE KEY	--	--	3/4"	--	1
WB-1	WATER SUPPLY WALL BOX	SILOUX CHIEF OXBOX 696-G1010MF	SINGLE SWEAT CONNECTION, QUARTER TURN VALVE, WALL FRAME, INTEGRAL WATER HAMMER	--	--	1/2"	--	1
WHA-1	WATER HAMMER ARRESTOR	ZURN-WILKINS 1260XL SERIES	COPPER CHAMBER WITH O-RING PISTON	--	--	--	--	11
FCO-1	FLOOR CLEANOUT	ZURN Z1400	ADJUSTABLE	--	--	--	--	13
WCO-1	WALL CLEANOUT	ZURN Z1441	ADJUSTABLE, STAINLESS STEEL WALL COVER	--	--	--	--	14
GCO-1	GRADE CLEANOUT (TWO-WAY)	ZURN Z1400-HD	ADJUSTABLE	--	--	--	--	15
REMARKS: 1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATION AND MOUNTING HEIGHTS. MOUNT PER ADA REQUIREMENTS WHERE INDICATED. 2. PROVIDE FLUSH VALVE WITH SWEAT SOLDER ADAPTER AND CAST WALL FLANGE (ESCUTCHEON) WITH SET SCREW. 3. PROVIDE FLUSH VALVE WITH ADA COMPLIANT HANDLE. 4. PROVIDE CHROME PLATED, HEAVY DUTY, COMMERCIAL GRADE, ANGLE SUPPLY (HOT AND COLD, AS REQUIRED) WITH WHEEL HANDLE STOP(S), STAINLESS STEEL FLEXIBLE RISER HOSE(S), AND CHROME PLATED WALL ESCUTCHEON(S). 5. PROVIDE 17 GAUGE CHROME PLATED P-TRAP WITH CLEANOUT AND WALL ESCUTCHEON. 6. PROVIDE TRUEBRO INC. HAND LAVA GUARD OR EQUAL UNDERSINK PROTECTIVE PIPE COVERING MODEL 103, FOR WASTE, HOT, AND COLD PIPING. COLOR: WHITE. COVERS SHALL BE SECURED WITH SNAP-CLIP FLUSH REUSABLE FASTENERS. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION MEETING CURRENT ADA STANDARDS WHERE REQUIRED. 7. PROVIDE THERMOSTATIC MIXING VALVE ZURN MODEL ZW1070XL SET TO 110° F MAXIMUM. 8. PROVIDE MOLDED STONE MOP SERVICE BASIN WITH 12" HIGH STAINLESS STEEL SPLASH GUARD MOUNTED TO WALL, ZURN MSB MODEL SUFFIX -HH HOSE AND BRACKET, AND ZURN MSB MODEL SUFFIX -MH MOP HANGER BRACKET. 9. UNIT SHALL PROVIDE 8.0 GPH OF 50° F WATER BASED ON 80° F INLET WATER AND 90° F ROOM TEMPERATURE. 10. PROVIDE SOLID BLOCKING IN WALL BEHIND UNIT FOR MOUNTING. 11. WATER HAMMER ARRESTORS SHALL BE PROPERLY SIZED, PROPERLY LOCATED IN AN EFFECTIVE RANGE FROM EQUIPMENT, AND IN ACCORDANCE WITH PDI STANDARD WH201. 12. PROVIDE 6-1/2" DEEP SINGLE/DOUBLE COMPARTMENT, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, 4 HOLE DRILLING IN LEDGEBACK (OFFSET 4TH HOLE 6" FOR SPRAY), WITH ZURN STRAINER Z8741-17-SS. 13. PROVIDE ROUND ACCESS COVER (DEPRESSED CENTER IN CARPETED AREA TO MARK LOCATION AND ACCOMMODATE FLOOR FINISH) WITH NICKEL-BRONZE SCORED FRAMES & PLATES. SIZE AS INDICATED ON DRAWINGS. ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM. 14. PROVIDE CAULKED OR THREADED CLEANOUT. EXTEND ACCESS COVER TO FINISHED WALL SURFACE. ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM. 15. ADJUSTABLE GRADE CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISHED GRADE. 16. PROVIDE GARBAGE DISPOSAL IN-SINK-ERATOR MODEL CNTR333, 3/4 HP, 120V/1PH/60HZ, INSULATED OUTER SHELL, STAINLESS STEEL GRINDER AND CHAMBER, WITH 5 YEAR WARRANTY. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. 17. PROVIDE EMERGENCY THERMOSTATIC MIXING VALVE, BRADLEY MODEL S19-2100. 18. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 19. PROVIDE REINFORCED FIBERGLASS INTERCEPTOR CONSTRUCTED USING ISOPHTHALIC POLYESTER RESIN RESULTING IN AN INERT, NON-CORROSIVE PRODUCT IMPERVIOUS TO RETAINED WASTE. 20. INSTALL GREASE INTERCEPTOR PER MANUFACTURER'S RECOMMENDATIONS AND PER LATEST INTERNATIONAL PLUMBING CODE.								

GH2

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GENERAL NOTES

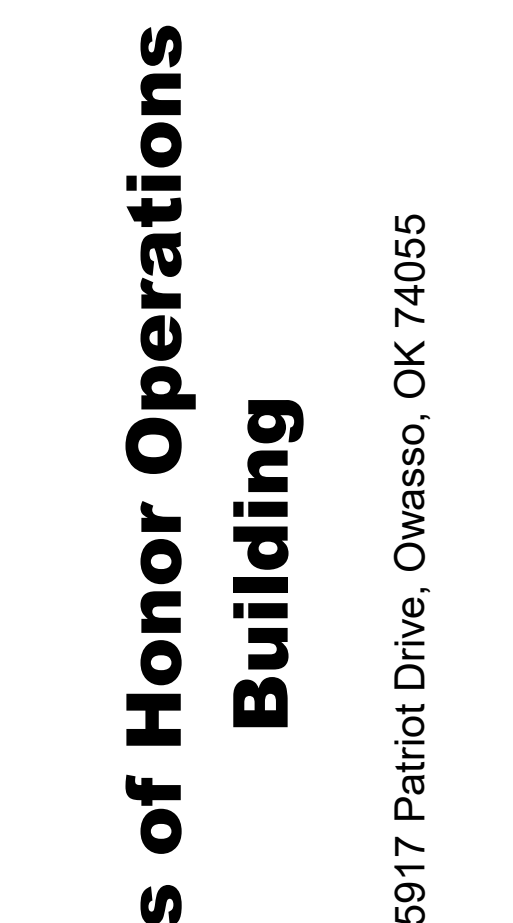
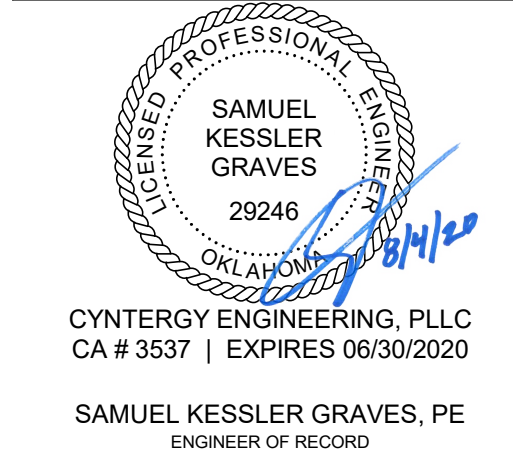
1. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH CURRENT APPLICABLE LOCAL, STATE, FEDERAL, FIRE, AND HEALTH CODES AND ORDINANCES AND IS RESPONSIBLE TO COMPLY WITH ALL REGULATIONS OF REGULATORY AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. CODES, ORDINANCES AND REGULATIONS SHALL HAVE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT. OBTAIN CURRENT COPIES OF ALL ADOPTED CODES AND ORDINANCES PRIOR TO BID AND INCLUDE ALL COSTS TO COMPLY WITH CODES AND ORDINANCES IN BID.
2. PAY ALL LAWFUL FEES, PERMITS OR LICENSES REQUIRED TO ACCOMPLISH WORK. OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL.
3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICE AND ANYTHING REASONABLY INCIDENTAL TO COMPLETE ALL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED IN ACCORDANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
4. THE CONTRACTOR IS RESPONSIBLE TO VISIT AND EXAMINE THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO THE WORK TO BE PERFORMED.
5. INCORPORATE ALL CODE AND ORDINANCE REQUIREMENTS INTO THE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENT AND/OR TO OBTAIN APPROVAL OF WORK.
6. THE DRAWINGS ARE DIAGRAMMATIC AND ARE ONLY INTENDED TO DEFINE THE BASIC FUNCTIONS REQUIRED. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS AND COORDINATION WITH OTHER TRADES WILL ALLOW. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND ARE A PART OF THE WORK INCLUDED; HOWEVER, CHANGES THAT ALTER THE CHARACTER OF THE WORK ARE NOT PERMITTED. APPROVAL OF ARCHITECT AND ENGINEER SHALL BE OBTAINED BEFORE DEVIATIONS FROM THESE PLANS ARE MADE.
7. PLUMBING AND MECHANICAL SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR INSTALLATION BEFORE ORDERING EQUIPMENT AND FABRICATING PIPING AND/OR DUCTWORK.
8. THE CONTRACTOR SHALL STUDY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS TO ENSURE ALL MECHANICAL SYSTEMS WILL FIT WITH SUFFICIENT CLEARANCES FOR INSTALLATION, SERVICING AND MAINTENANCE. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL COMPLY WITH SPECIFICATIONS AND INDUSTRY STANDARDS FOR ALL INSTALLATIONS.
10. PROVIDE ALL DOMESTIC POTABLE WATER EQUIPMENT AND PIPING AS "LEAD FREE" PER THE "REDUCTION OF LEAD IN DRINKING WATER ACT". NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO SUBMITTAL.
11. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATIONS. REFER TO PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT.
12. SEAL ALL PENETRATIONS WATER TIGHT. SEAL AROUND ALL WALL PENETRATIONS. PROVIDE ESCUTCHEONS ON ALL PIPING ON EXTERIOR AND EXPOSED LOCATIONS. CAULK WITH REQUIRED THICKNESS 3M BRAND FIRE BARRIER CAULK CP-25 (OR OTHER APPROVED METHOD) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED ASSEMBLIES.
13. WHERE DUCTS PENETRATE NON-FIRE-RESISTANCE RATED FLOORS, SEAL SPACE AROUND DUCTS WITH AN APPROVED NONCOMBUSTIBLE FIRE STOP.
14. ALL CUTTING AND PATCHING OF STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.
15. THE CONTRACTOR SHALL COORDINATE ALL ROUTING AND MOUNTING OF EQUIPMENT, DUCTWORK, PIPING, ETC (ALL WORK) WITH ALL OTHER TRADES.
16. PROVIDE ACCESS PANELS WHERE INDICATED ON DRAWINGS AND AS REQUIRED TO PROPERLY OPERATE, ADJUST AND MAINTAIN ALL EQUIPMENT, VALVES, DAMPERS AND OTHER ACCESSORIES. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE INSTALLATION WITH ALL OTHER TRADES. ACCESS PANEL TO BE MILCOR, MATHBROOK, OR APPROVED EQUAL, HINGED WITH SCREWDRIVER LOCK.
17. ROUTE DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID CONFLICT WITH LIGHTS.
18. INSTALL ALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS UNLESS DISTINCTLY SHOWN OR NOTED OTHERWISE. ROUTE PIPING LOCATED NEAR EACH OTHER PARALLEL IN ALL PLANES AND WITH SUFFICIENT CLEARANCE.
19. ALL PIPING SHALL BE INSTALLED SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGES TO EQUIPMENT, OTHER WORK, OR INJURY TO PIPING SYSTEM. ALL NECESSARY SWING JOINTS, EXPANSION JOINTS, OR OFFSETS TO PROTECT PIPING, ETC. SHALL BE INSTALLED WHETHER INDICATED OR NOT.
20. PROPERLY SUPPORT ALL PIPING. PROVIDE ALL REQUIRED ANCHORS, GUIDES AND EXPANSION DEVICES.
21. PAINT ALL EXTERIOR AND EXPOSED PIPING. REFER TO AXXX FOR COLOR. (DESIGNER/ENGINEER: COORDINATE THIS REFERENCE WITH THE ARCHITECT.)
22. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL MATERIAL, EQUIPMENT, APPARATUS AND WORK FROM DAMAGE. FAILURE TO DO SO TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE WILL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE MATERIAL, EQUIPMENT, APPARATUS AND WORK IN QUESTION.
23. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE. THE CONTRACTOR'S GUARANTEE INCLUDES EQUIPMENT CAPACITY, PERFORMANCE RATINGS AND NOISE RATINGS. ANY DEFICIENCIES SHALL BE PROMPTLY CORRECTED. ROUTINE MAINTENANCE SHALL NOT BE INCLUDED.
24. THE CONTRACTOR SHALL CLEAN ALL FIXTURES, PIPES, EQUIPMENT AND EXPOSED WORK AFTER COMPLETION OF FINAL TESTING AND BEFORE ACCEPTANCE.
25. ALL PLATED AND OTHER FINISHED PRODUCTS SHALL BE THOROUGHLY CLEANED AND POLISHED.
26. THE MANUFACTURER MODEL OR CATALOG NUMBERS INDICATED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD FOR THE GENERAL DESIGN, PERFORMANCE, AND QUALITY OF THE PRODUCT REQUIRED.
27. ALTERNATE MANUFACTURERS LISTED IN THE SCHEDULE OR SPECIFICATIONS ARE APPROVED TO BID; HOWEVER, THE SUBMITTED PRODUCT MUST MEET THE GENERAL DESIGN, PERFORMANCE, DIMENSIONS, WEIGHT, AND QUALITY OF THE SCHEDULED PRODUCT. EACH MANUFACTURER WILL HAVE DIFFERENCES IN INSTALLATION REQUIREMENTS. IF THE CONTRACTOR ELECTS TO GO WITH A NON-BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE THE COST FOR ENGINEERING TIME, AS REQUIRED, TO ADJUST THE DESIGN TO THOSE DIFFERENCES IN THEIR BID. IF THE BASIS OF DESIGN IS NOT BID, THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY THE DIFFERENCES IN THE INSTALLATION REQUIREMENTS BETWEEN THE BASIS OF DESIGN AND THE SUBMITTED MANUFACTURER DURING THE SUBMITTAL PHASE.
28. WHERE "OR APPROVED EQUAL" IS INDICATED, OTHER PRODUCTS SIMILAR IN DESIGN AND OF EQUAL QUALITY AND PERFORMANCE, AND COMPLYING WITH THE PLANS AND SPECIFICATIONS MAY BE APPROVED IF FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER. THE CONTRACTOR MUST SUBMIT TO THE ARCHITECT/ENGINEER A LINE-BY-LINE COMPARISON BETWEEN SCHEDULED MANUFACTURER AND "OR APPROVED EQUAL" MANUFACTURER 10 DAYS PRIOR TO BID.
29. ALL MATERIALS, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO ALL RULES, CODES, ETC., AS RECOMMENDED OR ADAPTED BY THE NATIONAL ASSOCIATION GOVERNING THE MANUFACTURER, RATING AND TESTING OF SUCH MATERIALS, EQUIPMENT, ETC., ALL ELECTRICALLY OPERATED EQUIPMENT SHALL BE U.L. APPROVED FOR THE USE INTENDED.
30. ALL FIRED AND UNFIRED PRESSURE VESSELS SHALL CONFORM TO THE RULES OF THE A.S.M.E. AND NATIONAL BOARD CODES AND SHALL BE SO LABELED. FURNISH A.S.M.E. AND NATIONAL BOARD CERTIFICATES.
31. MOTORS SHALL CONFORM TO THE RULES OF THE N.E.M.A. FOR THE SERVICE INTENDED AND TO THEIR STANDARDIZED FORM SIZES.
32. SHOP DRAWINGS, CATALOG CUTSHEETS AND PERFORMANCE DATA PERTAINING TO ALL MATERIALS AND EQUIPMENT PROPOSED FOR USE SHALL BE SUBMITTED.
33. JOINTS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC NIPPLES DOWNSTREAM OF A VALVE.
34. ALL MATERIALS EXPOSED IN A RETURN AIR PLENUM SHALL COMPLY WITH NFPA 90A FLAME SPREAD UNDER 25 AND SMOKE DEVELOPED AND FUEL CONTRIBUTED UNDER 50.
35. THE DISCHARGE OF SAFETY VALVES, BLOWOFF PIPES AND OTHER OUTLETS SHALL BE LOCATED AND SUPPORTED SO AS TO PREVENT INJURY TO PERSONNEL.
36. PROVIDE RETURN AIR SMOKE DETECTOR IN EACH HVAC UNIT OVER 2,000 CFM AS REQUIRED BY THE LATEST ADOPTED INTERNATIONAL MECHANICAL CODE.
37. MECHANICAL EQUIPMENT SHOWN ON THE PLANS HAVE A SPECIFIC WEIGHT AND LOCATION. SHOULD THE CONTRACTOR INSTALL EQUIPMENT WITH DIFFERENT WEIGHTS OR LOCATIONS AS SHOWN, CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE STRUCTURAL ENGINEER FOR APPROVAL, PRIOR TO PURCHASING, CLEARLY INDICATING THE DIFFERENCES IN SIZE, WEIGHT AND LOCATION. THE ARCHITECT/ENGINEER SHALL NOT BEAR THE COSTS OF SUCH REVIEWS OR REDESIGNS.
38. DO NOT ROUTE PIPING OVER ELECTRICAL OR COMMUNICATIONS EQUIPMENT. THIS INCLUDES HYDRONICS, STEAM, DOMESTIC WATER, SANITARY SEWER AND VENTS, CONDENSATE, ROOF DRAINS, ETC.
39. PROVIDE TEMPORARY AIR FILTERS PRIOR TO STARTUP OF ALL FANS THAT ARE OPERATING DURING CONSTRUCTION, AND INSTALL NEW FILTERS AFTER ALL CONSTRUCTION DIRT HAS BEEN REMOVED FROM THE BUILDING, AND THE DUCTS, PLENUMS, CASINGS, AND OTHER ITEMS SPECIFIED HAVE BEEN VACUUM CLEANED. MAINTAIN SYSTEM IN THIS CLEAN CONDITION UNTIL FINAL ACCEPTANCE.

HVAC SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	NOTE: AIR DISTRIBUTION DEVICES ARE DENOTED AS ILLUSTRATED BELOW:	
	AUTOMATIC AIR VENT		90° RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES		SUPPLY DIFFUSER
	BACKFLOW PREVENTER		45° RECTANGULAR BEND		RETURN GRILLE
	BALL VALVE		45° RECTANGULAR BEND, RADIUS/DIAMETER=1.5		EXHAUST GRILLE
	BASKET STEAM TRAP		90° ROUND ELBOW, RADIUS/DIAMETER=1.5		DUCT SECTION, SUPPLY
	BLIND FLANGE		45° ROUND BEND, RADIUS/DIAMETER=1.5		DUCT SECTION, RETURN
	BUTTERFLY VALVE		DUCTWORK 90° TAP (ROUND-TO-ROUND)		DUCT SECTION, EXHAUST
	CAP		DUCTWORK 45° LATERAL TAP (ROUND-TO-ROUND)		S/A DIFFUSER WITH FACTORY INSTALLED QUADRANT BLANKS. PROVIDE BLANKS AS SHOWN ON DRAWINGS.
	CHECK VALVE		DUCTWORK 90° TAP (ROUND-TO-ROUND)		CEILING DIFFUSER SQUARE PATTERN. NO ARROWS INDICATE 4-WAY AIR PATTERN
	CHECK VALVE, SILENT		DUCTWORK 45° LATERAL TAP (ROUND-TO-ROUND)		CEILING DIFFUSER ROUND PATTERN. NO ARROWS INDICATE 4-WAY AIR PATTERN
	CIRCUIT SETTER		90° ROUND ELBOW DOWN		LINEAR DIFFUSER. NO ARROWS INDICATE 2-WAY AIR PATTERN
	COMPRESSED AIR CONNECTION		90° ROUND ELBOW UP	NOTE: SINGLE LINE DUCT TAP SYMBOLS ARE DENOTED AS ILLUSTRATED BELOW:	
	CONTROL VALVE, 2-WAY		90° RECTANGULAR ELBOW DOWN WITH SINGLE THICKNESS TURNING VANES		RECTANGULAR TO RECTANGULAR
	CONTROL VALVE, 3-WAY		END CAP		ROUND TO ROUND
	FLEXIBLE CONNECTOR		F=F-FALL IN DUCT ELEV R=RISE IN DUCT ELEV		DUCT SIZE TRANSITION
	GATE VALVE		SIDEWALL REGISTER OR GRILLE		SIDEWALL GRILLE
	GATE VALVE, ANGLE		DUCTWORK TOE-HEEL TAP (RECTANGULAR TO RECTANGULAR)	DAMPER SYMBOLS:	
	GENERAL VALVE, SEE SPECS		DUCTWORK CONICAL TAP (RECTANGULAR TO ROUND)		FIRE/SMOKE DAMPER
	GLOBE VALVE		DUCTWORK SPIN-IN TAP (RECTANGULAR TO ROUND)		FIRE DAMPER
	GLOBE VALVE, ANGLE		TRIPLE DUTY VALVE		SMOKE DAMPER
	PLUG VALVE		RECTANGULAR TO ROUND TRANSITION		MOTORIZED DAMPER
	PRESSURE AND TEMPERATURE RELIEF		STRAIGHT SIDED BRANCH SPLIT. TRANSITION TO FULL SIZE BEFORE ELBOW.	PIPE LABEL	
	PRESSURE REDUCING STATION, STEAM		BRANCH SPLIT. TRANSITION TO FULL SIZE BEFORE ELBOW.		BOILER FEED WATER
	PRESSURE REDUCING VALVE		WYE SPLIT. TRANSITION TO FULL SIZE BEFORE ELBOW.		CHILLED WATER SUPPLY
	RELIEF VALVE, ASME		TYPICAL RUNOUT:		CHILLED WATER RETURN
	SMOKE DETECTOR		5'-0" MAX LENGTH FOR FLEX DUCT DIFFUSER RIGID ELBOW, FLEXIBLE ELBOWS NOT ALLOWED RIGID SUPPLY DUCTWORK MVD MAIN DUCTWORK		COMPRESSED AIR, BREATHING AIR
	SOLENOID VALVE		DEFINITION OF LINEWEIGHTS AND LINETYPES:		COMPRESSED AIR
	STRAINER		DEMOLITION		CONDENSATE, DRAIN
	SUCTION DIFFUSER		EXISTING TO REMAIN		CONDENSATE, PUMPED
	THERMOSTAT, HUMIDISTAT		NEW CONSTRUCTION		CONDENSATE, LOW PRESS 0-15 PSI
	TEMPERATURE, HUMIDITY & CO2 SENSOR		OUTLINE OF NEW EQUIPMENT INSTALLED ABOVE THE FLOOR SHOWN (I.E., ROOF)		CONDENSATE, MED PRESS 16-124 PSI
	TRIPLE DUTY VALVE				CONDENSATE, HIGH PRESS 125 PSI & ABOVE
	UNION				CONDENSER WATER SUPPLY
	VENTURI				CONDENSER WATER RETURN
	RISER DOWN (ELBOW)				HEATING WATER SUPPLY
	RISER UP (ELBOW)				HEATING WATER RETURN
	RISE OR DROP				REFRIGERANT
	TEE DOWN				REFRIGERANT GAS
	TEE UP				REFRIGERANT LIQUID
	TOP CONNECTION				REFRIGERANT SUCTION
	BOTTOM CONNECTION				STEAM, LOW PRESS 0-15 PSI
	SIDE CONNECTION				STEAM, MED PRESS 16-124 PSI
	FLOW IN DIRECTION OF ARROW				STEAM, HIGH PRESS 125 PSI & ABOVE
	PIPE SLOPE IN DIRECTION OF ARROW				
	REMOVE EXISTING TO THIS POINT				
	TIE-IN TO EXISTING AT THIS POINT				
	PUMP				
	EQUIPMENT TAG				
	EQUIPMENT NUMBER				
	NECK SIZE IN INCHES				
	AIRFLOW IN CFM				
	DEVICE TYPE, REFER TO SCHEDULE				
	ROUND DUCT SIZE IN INCHES				
	RECTANGULAR DUCT SIZE IN INCHES				

HVAC ABBREVIATIONS

A		L	
AC	AIR COMPRESSOR	L	LOUVER
ACC	AIR COOLED CHILLER	LAT	LEAVING AIR TEMPERATURE
ACFM	ACTUAL CUBIC FEET PER MINUTE	LB	POUND, POUNDS
ADD	ADDENDUM	LDB	LEAVING DRY BULB
ADJ	ADJUSTABLE	LPC	LOW PRESSURE CONDENSATE
AFF	ABOVE FINISHED FLOOR	LPS	LOW PRESSURE STEAM
AHU	AIR HANDLING UNIT	LWB	LEAVING WET BULB
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LWT	LEAVING WATER TEMPERATURE
APD	AIR PRESSURE DROP		
AR	AIR RECEIVER	M	
AS	AIR SEPARATOR	M	THOUSAND
		MBH	THOUSAND BTUH
B	BOILER	MPG	MANUFACTURER
BA	BREATHING AIR, COMPRESSED	MPG	NATURAL GAS, MEDIUM PRESSURE
BAC	BREATHING AIR COMPRESSOR	MIN	MINIMUM
BCU	BLOWER COIL UNIT	MISC	MISCELLANEOUS
BFCD	BACK FLOW PREVENTION DEVICE	MOCP	MINIMUM OVER CURRENT PROTECTION
BFW	BOILER FEED WATER	MPC	MEDIUM PRESSURE CONDENSATE
BTM	BOTTOM	MPS	MEDIUM PRESSURE STEAM
BTUH	BRITISH THERMAL UNIT PER HOUR	MVD	MANUAL VOLUME DAMPER
		N	
C		NC	NORMALLY CLOSED
CA	COMPRESSED AIR	NIC	NOT IN CONTRACT
CC	COOLING COIL	NO	NORMALLY OPEN or NUMBER
CD	CONDENSATE DRAIN	NOM	NOMINAL
CF	CEILING FAN	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	O	
CH	CHILLER (WATER COOLED)	O/A	OUTSIDE AIR
CHWP	CHILLED WATER PUMP	ODD	OPPOSED BLADE DAMPER
CHWS	CHILLED WATER SUPPLY	ODU	OUTDOOR UNIT
CHWR	CHILLED WATER RETURN	P	
CL	CENTER LINE	PH	PHASE
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH
CP	PUMPED CONDENSATE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
CT	COOLING TOWER	PSIG	POUNDS PER SQUARE INCH GAGE
CU	CONDENSING UNIT		
CWP	CONDENSER WATER PUMP	Q	
CWS	CONDENSER WATER SUPPLY	QT	TOTAL CAPACITY
CWR	CONDENSER WATER RETURN	QS	SENSIBLE CAPACITY
		QL	LATENT CAPACITY
D		R	
DCW	DOMESTIC COLD WATER	(R)	EXISTING TO REMAIN, RELOCATE
DN	DOWN	R	REFRIGERANT
DOAU	DEDICATED OUTDOOR AIR UNIT	R/A	RETURN AIR
DP	DEWPOINT	RAD	REFRIGERATED AIR DRYER
DWG	DRAWING	RAG	RETURN AIR GRILLE
		RD	ROOF DRAIN
E		RE	REFER TO
(E)	EXISTING TO REMAIN	RG	REFRIGERANT GAS
E/A	EXHAUST AIR	RH	RELATIVE HUMIDITY/RELIEF HOOD
EAG	EXHAUST AIR GRILLE	RL	REFRIGERANT LIQUID
EAT	ENTERING AIR TEMPERATURE	RL/A	RELIEF AIR
EDB	ENTERING DRY BULB	RM	ROOM
EFW	EMERGENCY EYE WASH	RPM	REVOLUTIONS PER MINUTE
ENG	ENGINEER	RPS	REVOLUTIONS PER SECOND
EPO	EMERGENCY POWER OFF	RS	REFRIGERANT SUCTION
ESP	EXTERNAL STATIC PRESSURE	RTU	ROOFTOP UNIT
EQUIP	EQUIPMENT	RV	RELIEF VALVE
ET	EXPANSION TANK	Ø	ROUND, DIAMETER
EWB	ENTERING WET BULB	S	
EWT	ENTERING WATER TEMPERATURE	S/A	SUPPLY AIR
		SAG	SUPPLY AIR GRILLE
F		SCFM	STANDARD CUBIC FEET PER MINUTE
F	FAHRENHEIT	SF	SUPPLY FAN
FCU	FAN COIL UNIT	SP	STATIC PRESSURE
FH	FUME HOOD	SS	STAINLESS STEEL
FLR	FLOOR	STM	STEAM
FP	FIRE PROTECTION	SQIN	SQUARE INCH/INCHES
FPM	FEET PER MINUTE	SOFT	SQUARE FOOT/FEET
FT	FOOT, FEET	T	
		T/A	TRANSFER AIR
G		TAG	TRANSFER AIR GRILLE
G	NATURAL GAS, LOW PRESSURE	TDH	TOTAL DYNAMIC HEAD
GAL	GALLON, GALLONS	TEMP	TEMPERATURE
GPH	GALLONS PER HOUR	THRU	THROUGH
GPM	GALLONS PER MINUTE	TSP	TOTAL STATIC PRESSURE
GCO	GRADE CLEAN OUT	TSTAT	THERMOSTAT
GWH	GAS WATER HEATER	TYP	TYPICAL
		U	
H		UH	UNIT HEATER
HB	HOSE BIBB	UL	UNDERWRITER'S LABORATORIES
HD	HEAD	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	V	
HPC	HIGH PRESSURE CONDENSATE	V	VOLT
HPS	NATURAL GAS, HIGH PRESSURE	VAV	VARIABLE AIR VOLUME
HPS	HIGH PRESSURE STEAM	VFD	VARIABLE FREQUENCY DRIVE
HWP	HOT WATER PUMP	VRF	VARIABLE REFRIGERANT FLOW
HWR	HEATING WATER RETURN	W	
HWS	HEATING WATER SUPPLY	W	WATT
HEX	HEAT EXCHANGER	WB	WET BULB
HT	HEIGHT		
		I	
IDU	INDOOR UNIT		
IH	INTAKE HOOD		
IN	INCH, INCHES		
INWC	INCHES OF WATER COLUMN		
		K	
KW	KILOWATT		
K	THOUSAND		
KH	KITCHEN HOOD		



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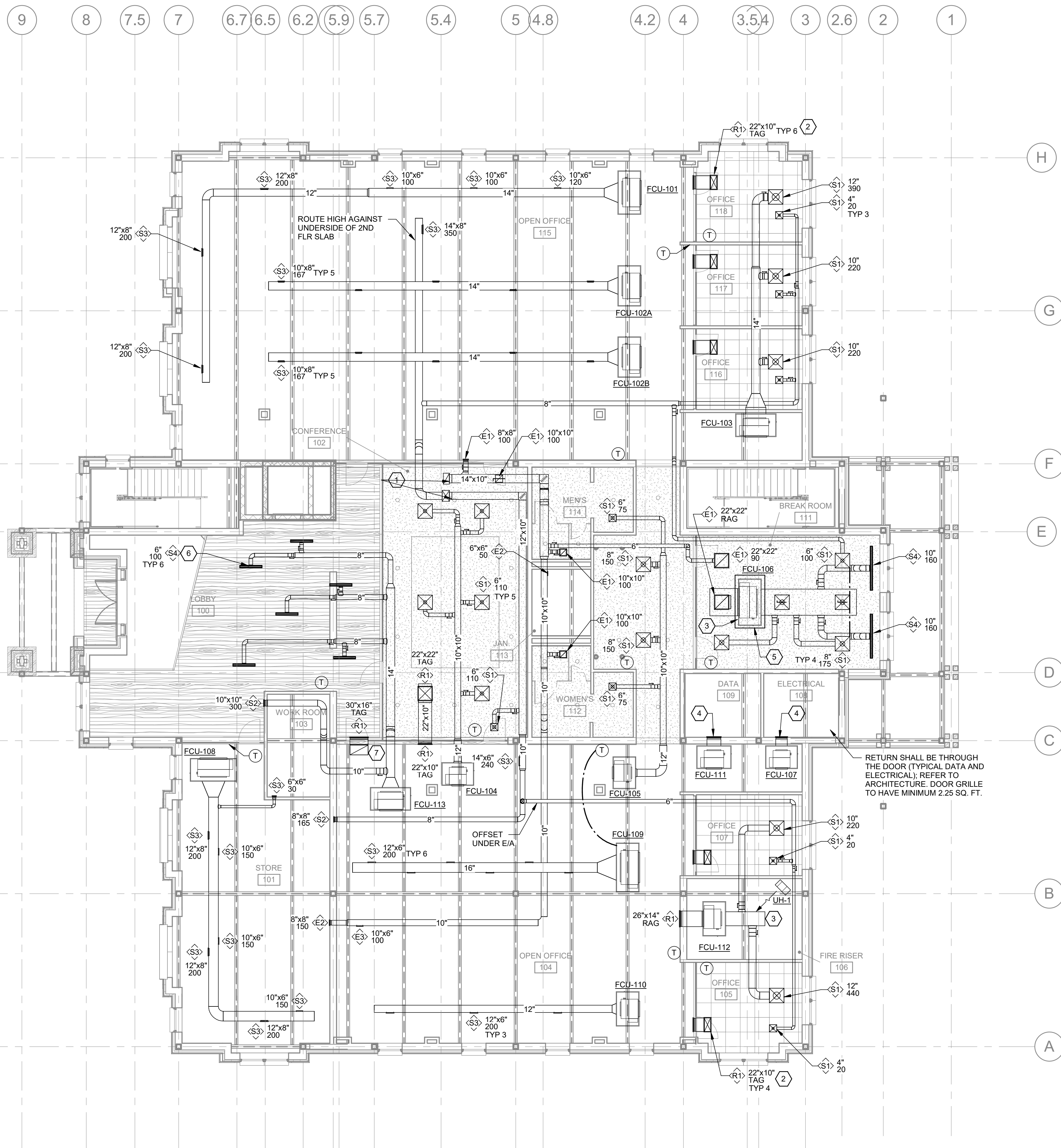
ISSUE:
PROGRESS SET

OTHER ISSUE DATES:		
NO.	DESCRIPTION	DATE
	PERMIT SET	6/19/2020
	PROGRESS SET	07/14/2020
	PROGRESS SET	08/04/2020

SHEET NAME:
NOTES, SYMBOLS, AND ABBREVIATIONS

SHEET NUMBER:
M-001

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1 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"

- ### KEYNOTES
- 14x12 E/A, 18x16 O/A DN FROM 2ND FLR.
 - RETURN BOOT, RE: X/M-502.
 - PROVIDE FULL-SIZED S/A AND R/A PLENUMS.
 - PROVIDE SIDEWALL S/A DIFFUSERS (TYPE S2) LOCATED DIRECTLY OVER DOOR AND SIZED FOR FULL UNIT S/A PLENUM SIZE. REFER TO SCHEDULES FOR TOTAL FLOW (CFM).
 - PROVIDE ACCESS PANEL IN CEILING SIZED FOR FULL REMOVAL OF FCU. COORDINATE LOCATION OF FCU AND ACCESS PANEL WITH OTHER CEILING-MOUNTED ELEMENTS (LIGHTS, FIRE PROTECTION/FIRE ALARM DEVICES, ETC.)
 - COORDINATE WIDTH OF LINEAR SLOT WITH CEILING ELEMENT WIDTH.
 - RETURN BOOT, RE: X/M-502.

- ### GENERAL NOTES
- O/A WILL BE ROUTED TO EACH SPACE TO MAINTAIN VENTILATION REQUIREMENTS AND BUILDING PRESSURIZATION.
 - E/A WILL BE ROUTED TO RESTROOMS AND VARIOUS OTHER ROOMS TO ALLOW FOR ENERGY RECOVERY.
 - FAN COIL UNITS IN OPEN AREAS WILL BE PROVIDED WITH FREE RETURNS. FIRST 10'-0" OF SUPPLY AIR DUCT SHALL BE PROVIDED WITH INTERNAL LINER FOR ACOUSTIC PERFORMANCE. FAN COIL UNITS IN OFFICES SHALL BE PROVIDED WITH FILTER GRILLES FOR EASE OF FILTER CHANGE.
 - ALL THERMOSTATS SHALL BE PROVIDED WITH AN OCCUPIED OVERRIDE SWITCH TO PLACE THE UNIT INTO OCCUPIED MODE FOR A DEFINED PERIOD OF TIME.
 - ROUTE OUTSIDE AIR AND EXHAUST AIR SYSTEMS AS CLOSE TO STRUCTURE AS POSSIBLE.



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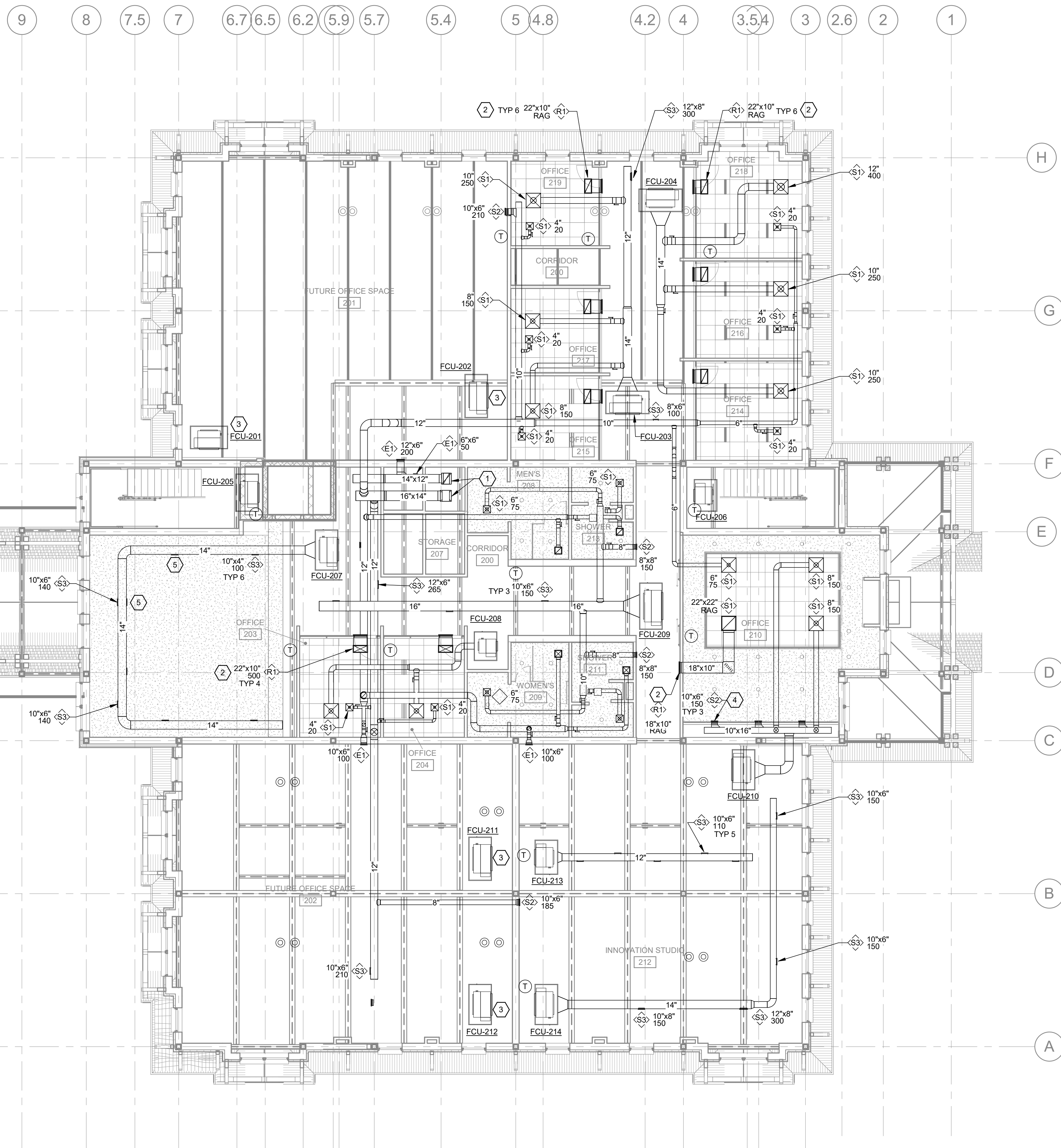
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SHEET NAME:
FIRST FLOOR MECHANICAL PLAN

SHEET NUMBER:
M-101

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- ### KEYNOTES
- 18x16 E/A, 18x18 O/A DN FROM 3RD FLR; 14x12 E/A, 16x14 O/A DN TO 1ST FLR.
 - RETURN BOOT, RE: X/M-502.
 - PROVIDE THERMOSTAT HUNG AT UNIT WITH 50'-0" MINIMUM COILED WIRING FOR FUTURE INSTALLATION.
 - PROVIDE MVD INTEGRAL WITH AIR TERMINAL.
 - DUCT SHALL BE MOUNTED AT 45 DEGREES TOWARDS GROUND.

- ### GENERAL NOTES
- O/A WILL BE ROUTED TO EACH SPACE TO MAINTAIN VENTILATION REQUIREMENTS AND BUILDING PRESSURIZATION.
 - E/A WILL BE ROUTED TO RESTROOMS AND VARIOUS OTHER ROOMS TO ALLOW FOR ENERGY RECOVERY.
 - FAN COIL UNITS IN OPEN AREAS WILL BE PROVIDED WITH FREE RETURNS. FIRST 10'-0" OF SUPPLY AIR DUCT SHALL BE PROVIDED WITH INTERNAL LINER FOR ACOUSTIC PERFORMANCE. FAN COIL UNITS IN OFFICES SHALL BE PROVIDED WITH FILTER GRILLES FOR EASE OF FILTER CHANGE.
 - ALL THERMOSTATS SHALL BE PROVIDED WITH AN OCCUPIED OVERRIDE SWITCH TO PLACE THE UNIT INTO OCCUPIED MODE FOR A DEFINED PERIOD OF TIME.
 - ROUTE OUTSIDE AIR AND EXHAUST AIR SYSTEMS AS CLOSE TO STRUCTURE AS POSSIBLE.



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3	PROGRESS SET	08/04/2020

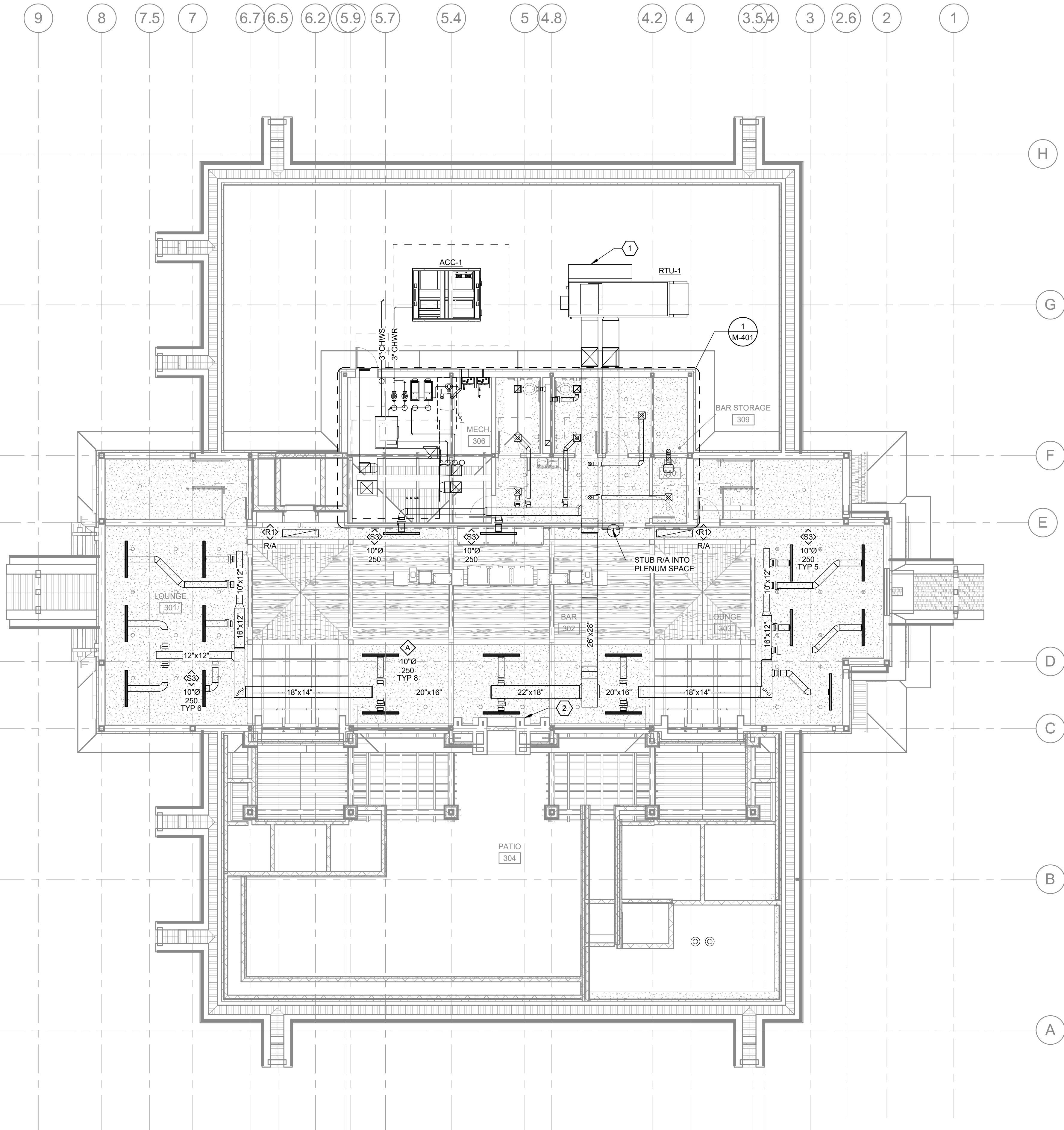
SHEET NAME:
SECOND FLOOR MECHANICAL PLAN

SHEET NUMBER:
M-102

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1 SECOND FLOOR MECHANICAL PLAN
1/8" = 1'-0"

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- KEYNOTES
1.

ROUTE CONDENSATE TO NEAREST PRD AND TERMINATE IN INDIRECT CONNECTION.
2.

ROUTE FIREPLACE FLUE UP THROUGH ARCHITECTURAL CHIMNEY. COORDINATE REQUIREMENTS WITH FIREPLACE MANUFACTURER.

- GENERAL NOTES
1.

ALL THERMOSTATS SHALL BE PROVIDED WITH AN OCCUPIED OVERRIDE SWITCH TO PLACE THE UNIT INTO OCCUPIED MODE FOR A DEFINED PERIOD OF TIME.
2.

LOCATE ROOF MOUNTED EQUIPMENT NOT LESS THAN 10'-0" FROM EDGE OF ROOF. CONTRACTOR SHALL ENSURE THAT SUBMITTED UNIT DIMENSIONS ARE COORDINATED WITH ROOF EDGES.
3.

SUPPORT ALL DUCTWORK ON ROOF WITH MANUFACTURED ROOF DUCT SUPPORTS WITH UNISTRUT FRAMING SYSTEMS.
4.

SUPPORT ALL ROOF PIPING ON ROOF WITH MANUFACTURED ROOF DUCT ROLLER SUPPORTS.
5.

ALL EXPOSED PIPING ON ROOF SHALL BE PROVIDED WITH HEAT TRACE.
6.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF PENETRATION DETAILS (INCLUDING BUT NOT LIMITED TO CURBS, DUCTS, PIPING, PIPING HOODS, ETC.).
7.

ALL ABOVE-CEILING ELEMENTS IN THE BAR/LOUNGE AREA SHALL BE LISTED AND LABELED FOR INSTALLATION IN A RETURN AIR PLENUM.

1

THIRD FLOOR MECHANICAL PLAN

1/8" = 1'-0"

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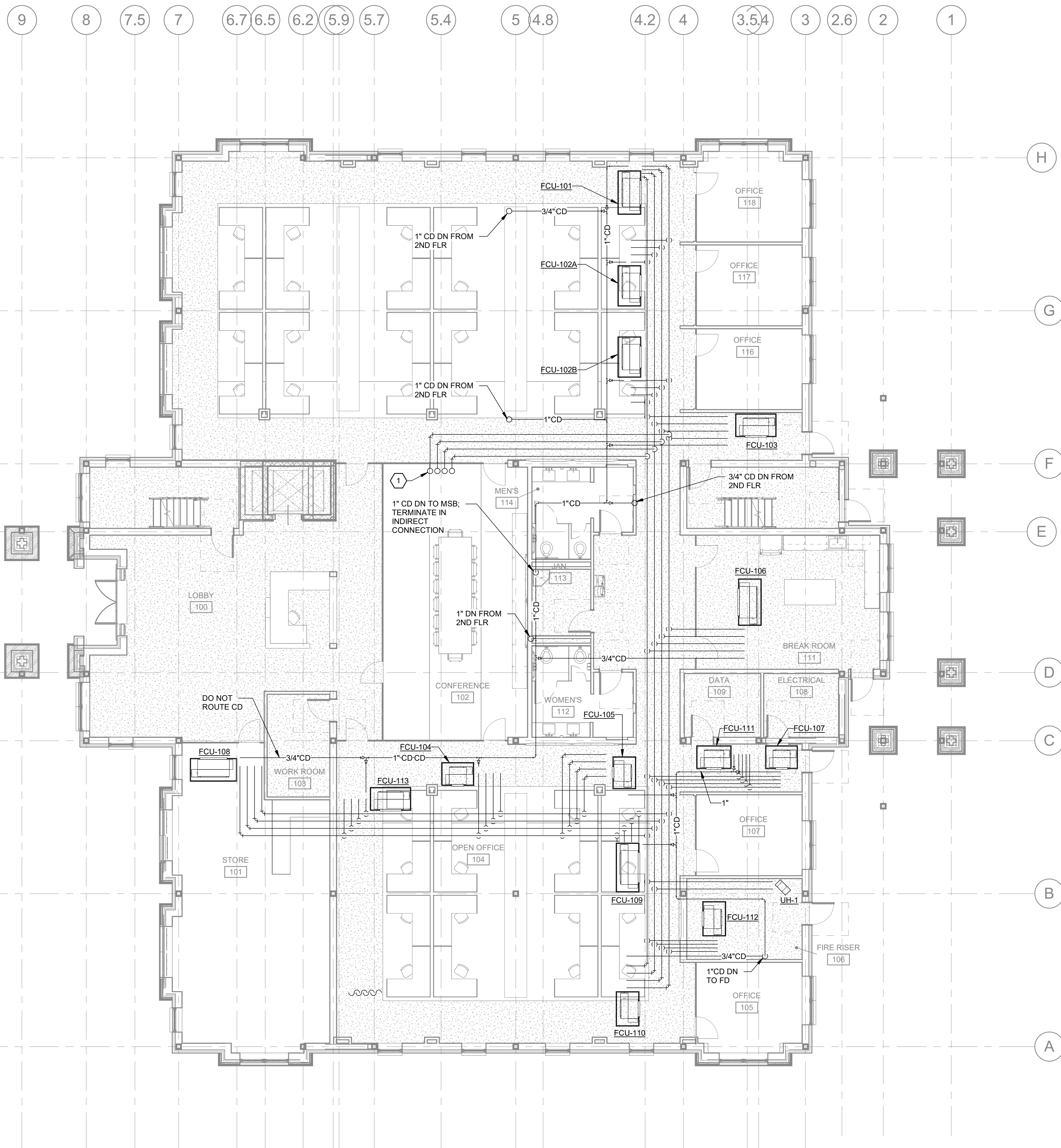
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SHEET NAME:
**THIRD FLOOR
MECHANICAL
PLAN**

SHEET NUMBER:
M-103

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KEYNOTES

1.

2 1/2" CHWS/R, 1 1/4" HWS/R DN FROM 2ND FLR.

GENERAL NOTES

1.

CHWS/R WILL BE ROUTED TO EACH FCU. HWS/R WILL BE ROUTED TO ALL FCU'S SERVING EXTERIOR ZONES.

2.

PRESSURE INDEPENDENT CONTROL VALVES WILL BE PROVIDED FOR ALL FCU'S.

3.

CONDENSATE WILL BE ROUTED FROM EACH FCU TO THE CENTRAL RESTROOM CORE AND TERMINATED AT AN APPROVED RECEPTACLE IN AN INDIRECT CONNECTION.

4.

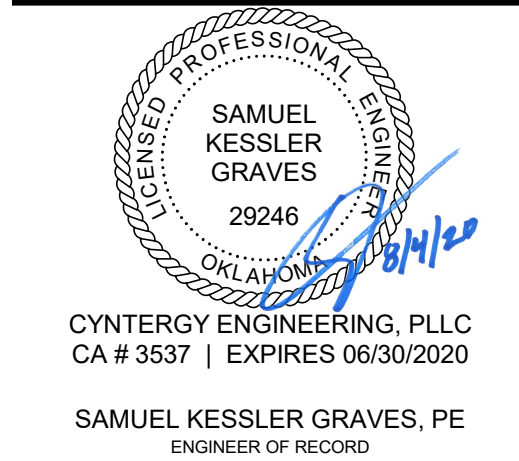
ALL CD RUNOUTS SHALL BE 3/4".

1

FIRST FLOOR MECHANICAL PIPING PLAN

1/8" = 1'-0"

N



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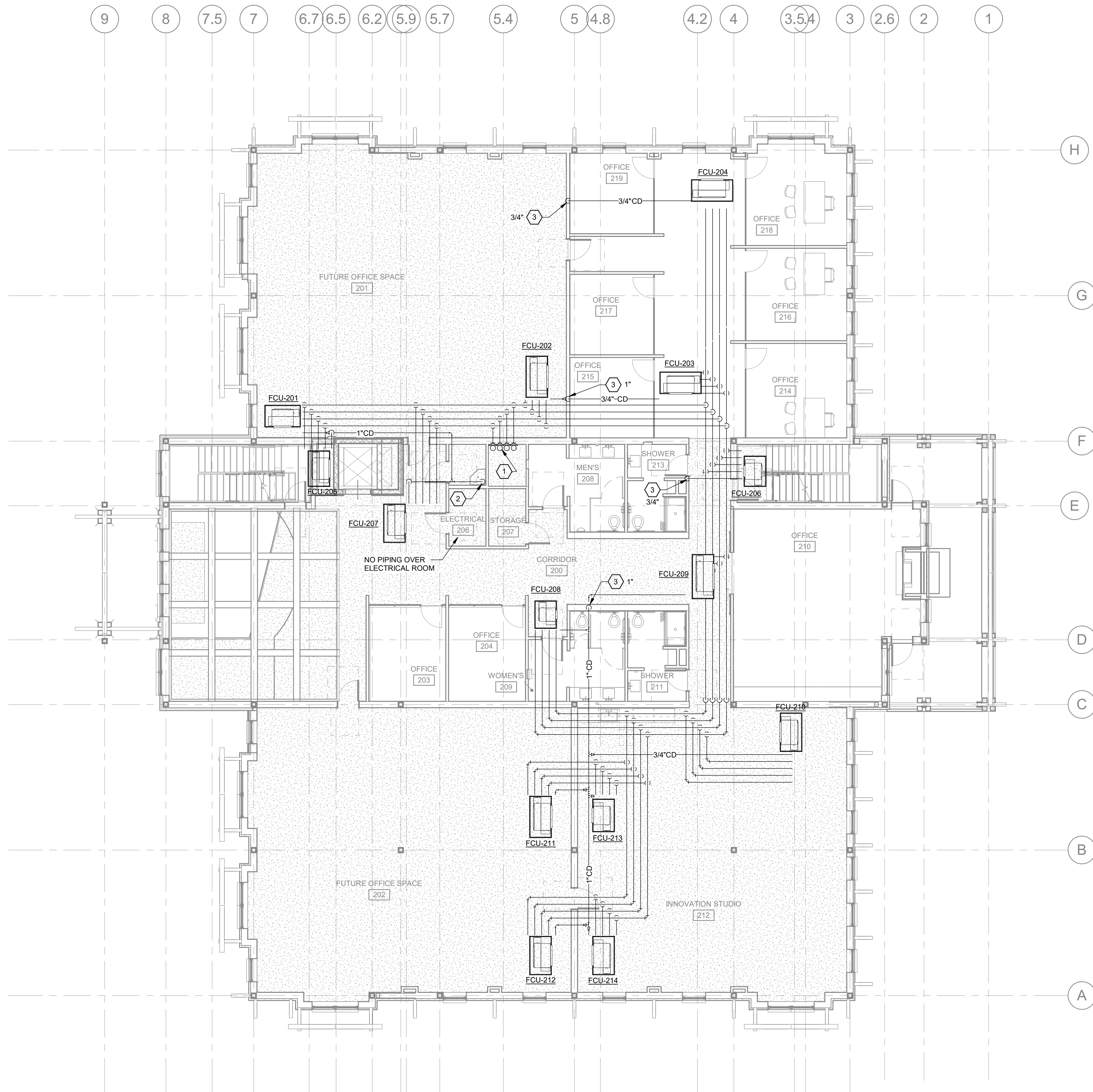
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SHEET NAME:
**FIRST FLOOR
MECHANICAL
PIPING PLAN**

SHEET NUMBER:
M-111

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- KEYNOTES

 - 3" CHWS/R, 2" HWS/R DN FROM 3RD FLR; 2 1/2" CHWS/R, 1 1/4" HWS/R DN TO 2ND FLR.
 - 1" CD DN TO MSB. TERMINATE IN INDIRECT CONNECTION.
 - CD DN TO 1ST FLR. SIZE AS NOTED.
- GENERAL NOTES

 - CHWS/R WILL BE ROUTED TO EACH FCU. HWS/R WILL BE ROUTED TO ALL FCU'S SERVING EXTERIOR ZONES.
 - PRESSURE INDEPENDENT CONTROL VALVES WILL BE PROVIDED FOR ALL FCU'S.
 - CONDENSATE WILL BE ROUTED FROM EACH FCU TO THE CENTRAL RESTROOM CORE AND TERMINATED AT AN APPROVED RECEPTACLE IN AN INDIRECT CONNECTION.
 - ALL CD RUNOUTS SHALL BE 3/4".

1 SECOND FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"



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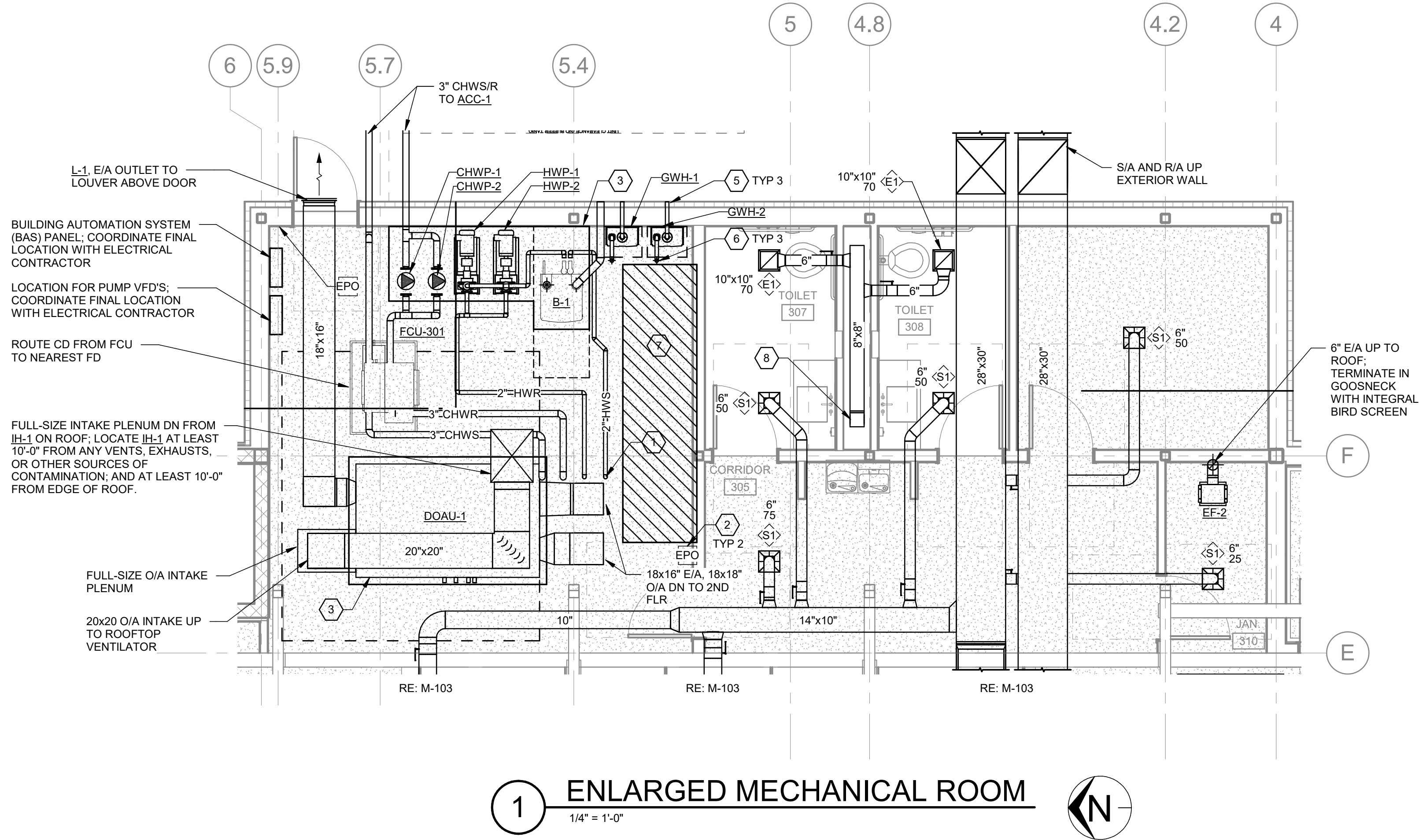
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SHEET NAME:
SECOND FLOOR MECHANICAL PIPING PLAN

SHEET NUMBER:
M-112

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- KEYNOTES
1.

3" CHWS/R, 2" HWS/R DN TO 2ND FLR.
2.

PROVIDE EMERGENCY POWER OFF BUTTON MEETING THE REQUIREMENTS OF CSD-1.
3.

4" HOUSEKEEPNG PAD, REFER TO STRUCTURALLY FOR DETAIL.
4.

PROVIDE FIRE STOP WHERE DUCT PENETRATES FLOOR. ALL ANNULAR SPACE AROUND DUCTWORK/PIPING SHALL BE FULLY SEALED WITH AN APPROVED NON-COMBUSTIBLE MATERIAL.
5.

VENT PIPE THROUGH SIDEWALL. TERMINATE IN MANUFACTURER'S WALL CAP WITH BIRD SCREEN. LOCATE ALL VENT TERMINATIONS AT SAME ELEVATION. SIZE VENT PIPING PER MANUFACTURER'S REQUIREMENTS.
6.

COMBUSTION AIR INTAKE PIPE UP THROUGH ROOF. OFFSET INTAKE PIPING SUCH THAT PIPING IS 10'-0" MINIMUM FROM EDGE OF ROOF. TERMINATE IN MANUFACTURER'S VERTICAL ROOF CAP. SIZE COMBUSTION AIR INTAKE PIPING PER MANUFACTURER'S REQUIREMENTS.
7.

NOTED SPACE IS RESERVED FOR ELECTRICAL PANELS AND EQUIPMENT; MAINTAIN SPACE FROM FLOOR TO CEILING FREE OF MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER APPURTENANCES
8.

8x8 E/A UP TO EF-1 ON ROOF. LOCATE EF-1 10'-0" MINIMUM FROM EDGE OF ROOF.

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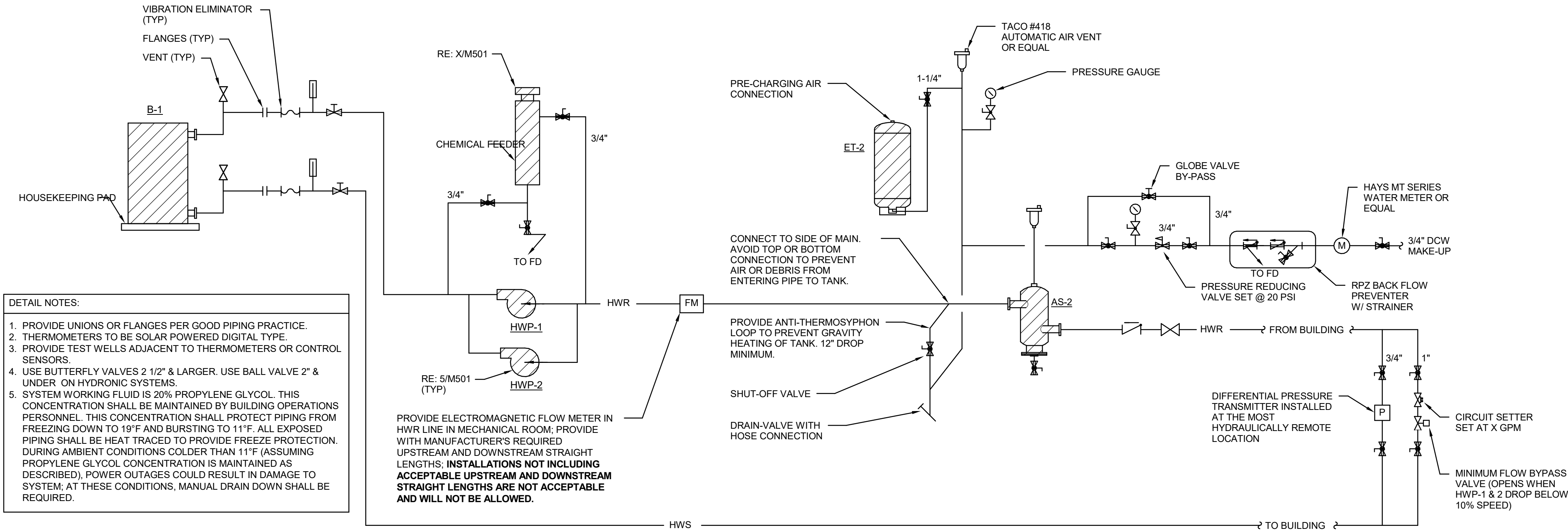
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SHEET NAME:
**ENLARGED
MECHANICAL
PLANS**

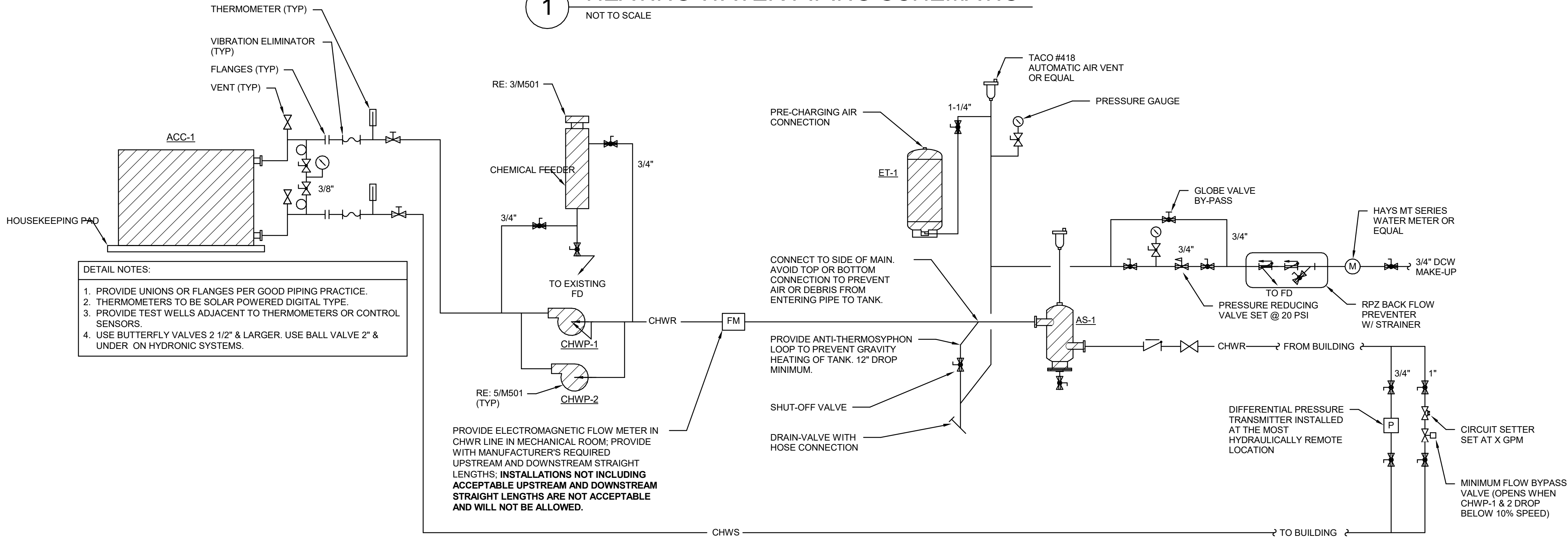
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1 HEATING WATER PIPING SCHEMATIC
NOT TO SCALE



2 CHILLED WATER PIPING SCHEMATIC
NOT TO SCALE

DEDICATED OUTDOOR AIR UNIT SCHEDULE (100% O/A)																											
MARK	MANUFACTURER MODEL	FANS						COIL CAPACITIES																			
		SUPPLY			EXHAUST			CHILLED WATER COIL (SUMMER)									CHILLED WATER COIL (DEHUMID)		HEATING HOT WATER COIL								
		CFM	ESP	HP	CFM	ESP	HP	QT (MBH)	QS (MBH)	COIL ROWS	EWT / LWT (°F)	FLOW RATE (GPM)	FLUID PD (FT)	EAT DB/WB (°F)	LAT DB/WB (°F)	APD (INWC)	EAT DB/WB (°F)	LAT DB/WB (°F)	QT (MBH)	COIL ROWS	EWT / LWT (°F)	FLOW RATE (GPM)	FLUID PD (FT)	EAT/ LAT (°F)	APD (INWC)		
DOAU-1	GREENHECK ERCH-45-15L-CW-HW-01	2,270	1.25	2	1,740	1.25	1.5	99.8	75.0	6	44/54	20.7	8.1	80.5/65.4	50.4/50.3	0.4	76/67	50.9/50.8	47	8	150/119.7	7	0.3	47/89.1	0.08		
DEDICATED OUTDOOR AIR UNIT SCHEDULE (100% O/A) (CONTINUED)																											
ENERGY RECOVERY												ELECTRICAL			WEIGHT (LBS)	REMARKS											
GENERAL PERFORMANCE		SUMMER DESIGN				WINTER DESIGN				MCA (A)	MOCP (A)	V/PH/HZ															
90.1 O/A ENTHALPY RECOVERY RATIO	E/A EFFECTIVENESS	O/A EAT, °F (DB/WB)	O/A LAT, °F (DB/WB)	E/A EAT, °F (DB/RH)	E/A LAT, °F (DB/WB)	O/A EAT, °F (DB)	O/A LAT, °F (DB)	E/A EAT, °F (DB)	E/A LAT, °F (DB)																		
68.4	85.3	100.4/75.2	80.5/65.4	72/50	97.2/73.6	0	46.5	70	7.6				8	15			460/3/60	2,000	ALL								
REMARKS:																											
1. UNIT SHALL BE CONTROLLED VIA THE FIELD INSTALLED DDC CONTROL SYSTEM. REFER TO CONTROLS DRAWINGS FOR SEQUENCE OF OPERATION.																											
2. CHW COIL SELECTED AT 20% GLYCOL PERCENTAGE.																											
3. PROVIDE WATER COILS WITH RUN AROUND PUMPS FOR FREEZE PROTECTION. REFER TO COIL DETAIL.																											
4. PROVIDE SUPPLY AND EXHAUST FAN WITH MANUFACTURER'S PREMIUM EFFICIENCY ODP MOTORS AND VARIABLE FREQUENCY DRIVE (VFD) FAN FOR BALANCING.																											
5. PROVIDE END CONNECTION WITH DUCT FLANGE ARRANGEMENT FOR OUTDOOR AIR INTAKE AND DISCHARGE AND FOR EXHAUST AIR INTAKE AND DISCHARGE.																											
6. PROVIDE 2" MERV 8 OUTSIDE AIR AND EXHAUST AIR FILTRATION.																											
7. PROVIDE MANUFACTURER'S MOTORIZED LOW LEAKAGE SUPPLY AND EXHAUST DAMPERS.																											
8. PROVIDE MANUFACTURER'S SPRING ISOLATION.																											
9. PROVIDE MANUFACTURER'S MODULATING ENTHALPY WHEEL CONTROL WITH ROTATION SENSOR.																											
10. PROVIDE MANUFACTURER'S OUTSIDE AIRFLOW MEASURING STATION.																											
11. PROVIDE MANUFACTURER'S CONDENSATE DRAIN TRAP AND CONDENSATE OVERFLOW SWITCH WIRED TO SHUT DOWN UNIT AND GENERATE ALARM UPON DETECTION.																											
12. INSTALL UNIT ON RAILS PER MANUFACTURER'S RECOMMENDATIONS.																											
13. PROVIDE SMOKE DETECTORS IN UNIT RETURN AND INTERLOCK TO SHUT DOWN UNIT UPON DETECTION. FINAL CONNECTION TO FIRE ALARM PANEL SHALL BE BY FIRE ALARM CONTRACTOR.																											
14. DOUBLE WALL 1" INSULATED CONSTRUCTION.																											
15. FACTORY-WIRED NON-FUSED DISCONNECT SWITCH.																											
16. FACTORY-MOUNTED AND PROGRAMMED BACNET CONTROL PANEL FOR CONNECTION TO BAS.																											
17. ENERGY RECOVERY WHEEL WITH 5-YEAR WARRANTY (NOT INCLUDING MOTOR).																											

LIFE SAFETY DAMPER COORDINATION MATRIX				
TYPE	PROVIDED BY	INSTALLED BY	POWER & BRANCH CIRCUIT BY	CONTROL WIRING & CONTROLLED BY
COMBINATION FIRE SMOKE DAMPERS	MC	MC	EC	FA
SMOKE DAMPERS	MC	MC	EC	FA
MC = MECHANICAL CONTRACTOR EC = ELECTRICAL CONTRACTOR FA = FIRE ALARM CONTRACTOR NOTES: 1. THIS MATRIX IS PROVIDED AS A GUIDANCE TO THE CONTRACTORS. ULTIMATELY THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER IS RESPONSIBLE FOR THE DIVISION OF WORK DESCRIBED IN THIS MATRIX. 2. SMOKE DAMPERS & COMBINATION FIRE SMOKE DAMPERS SHALL BE PROVIDED WITH SMOKE DETECTORS (INTEGRAL WHERE POSSIBLE). SMOKE DETECTORS SHALL FOLLOW SAME MATRIX AS SMOKE DAMPERS. 3. PROVIDE 120V POWER CONNECTION TO COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. CIRCUIT TO 120V FIRE ALARM POWER CIRCUIT IN ELECTRICAL ROOM. IF CIRCUIT IS NOT SHOWN, CONNECT TO A 120V 15A OR 20A SPARE CIRCUIT BREAKER. 4. REFER TO MECHANICAL DRAWINGS FOR DAMPER LOCATIONS AND QUANTITIES. 5. REFER TO SPECIFICATION SECTION 23 33 00 FOR DAMPER SPECIFICATIONS. REFER TO SPECIFICATION SECTION 28 31 11 FOR FIRE ALARM SPECIFICATIONS. 6. INSTALLATION OF DAMPER AND LOCATION OF ASSOCIATED SMOKE DETECTORS SHALL COMPLY WITH MOST CURRENT IMC, NEC, AND NFPA 72 CODES.				

BUILDING PRESSURIZATION SCHEDULE				
EQUIP. MARK	SERVICE	O/A (CFM)	E/A (CFM)	BUILDING PRESSURE
DOAU-1	1ST & 2ND FLOOR	2270	1740	
RTU-1	3RD FLOOR	970	0	
EF-1	3RD FLOOR RESTROOMS	0	140	
EF-2	3RD FLOOR JANITOR'S CLOSET	0	70	
TOTALS		3240	1950	1290

FAN SCHEDULE									
MARK	MANUFACTURER MODEL	AREA SERVED	CFM	ESP (INWC)	MOTOR HP	AMPS	V/PH/HZ	WEIGHT (LBS)	REMARKS
EF-1	GREENHECK G-070-VG	3RD FLR RESTROOMS	140	0.25	1/60	--	115/1/60	24	ALL
EF-2	GREENHECK SP-A50-90-VG	3RD FLOOR JANITOR	70	0.25	1/15	0.29	115/1/6	19	1,3,4,7,8,9
REMARKS: 1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 2. FAN TO OPERATE IN CONJUNCTION WITH LIGHTS IN ROOM, COORDINATE WITH ELECTRICAL CONTRACTOR. 3. PROVIDE GRAVITY BACKDRAFT DAMPER. 4. PROVIDE FACTORY-MOUNTED NON-FUSED MOTOR DISCONNECT. 5. PROVIDE MANUFACTURER'S BIRDSCREEN. 6. PROVIDE MANUFACTURER'S INSULATED ROOF CURB (14" HIGH MINIMUM). 7. PROVIDE FACTORY-MOUNTED MOTOR SPEED POTENTIOMETER CONTROLLER. 8. FAN TO OPERATE CONTINUOUSLY. 9. PROVIDE SCHEDULED EXHAUST FAN MANUFACTURER OR APPROVED EQUAL.									

HEATING WATER BOILER SCHEDULE	
DESIGNATION	B-1
LOCATION	MECH ROOM
OPERATING WEIGHT (LBS)	310
MANUFACTURER	AERCO
MODEL	AM 500
TYPE	CONDENSING
FUEL	NATURAL GAS
INPUT/OUTPUT (MBH)	500 / 450
TURNDOWN	10:1
EWT/LWT (°F)	120/150
FLOW RATE MIN/MAX (GPM)	22/40
DESIGN FLOW RATE (GPM)	30
ELECTRICAL (V/PH/HZ)	120/1/60
FLA	1.8
REMARKS:	ALL
REMARKS: 1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 2. THERMOMETER AND PRESSURE GAUGE. 3. WATER TEMPERATURE CONTROL OPERATOR. 4. HIGH LIMIT SAFETY CONTROL. 5. LOW WATER CUT-OFF. 6. ASME SAFETY RELIEF VALVE(S). 7. MAIN MANUAL GAS SHUTOFF VALVE. 8. AUTOMATIC GAS VALVE OPERATOR AND AUXILIARY SAFETY SHUTOFF GAS VALVES. 9. HIGH LOW GAS PRESSURE SWITCHES. 10. GAS PILOT SHUTOFF AND SOLENOID VALVES. 11. GAS PILOT IGNITION ASSEMBLY WITH IGNITION TRANSFORMER. 12. PILOT AND MAIN GAS PRESSURE REGULATORS. 13. MODULATING BURNER. 14. BOILER CONTROL PANEL. BOILER MICROPROCESSOR MUST COMMUNICATE THROUGH AN OPEN PROTOCOL WITH BACNET PROTOCOL. 15. MANUAL RESET TYPE HIGH LIMIT OR LOW WATER CUTOFF. 16. UL, IRI, CSD, FM OR OTHER INSURANCE REQUIREMENTS. 17. LOW WATER CUT-OFF/FEEDER (IN ADDITION TO, OR IN PLACE OF STANDARD LOW WATER CUTOFF). 18. INDICATOR LIGHTS AS SPECIFIED. 19. BAROMETRIC DAMPER. 20. PROVIDE WITH INTEGRAL NON-FUSED ELECTRICAL DISCONNECT. 21. NEUTRALIZATION TANK.	

PUMP SCHEDULE								
MARK	MANUFACTURER MODEL	SERVICE	FLOW (GPM)	HEAD (FT)	MOTOR			REMARKS
CHWP-1 CHWP-2	TACO KV2006D	CHILLED WATER (20% PG)	108.5	75	5	1760	460/3/60	ALL
HWP-1 HWP-2	TACO F1209C	HEATING WATER	30	70	2	1760	460/3/60	ALL
REMARKS: 1. INSTALL PUMP PER THE PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS FOR WARRANTY. 2. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. 3. VFD FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL FOR VFD SPECIFICATION. 4. PROVIDE PUMP WITH PREMIUM EFFICIENCY MOTOR. 5. PROVIDE SUCTION DIFFUSER. 6. IN ADDITION TO STANDARD MESH SCREEN, PROVIDE FINE MESH SCREEN AT SUCTION DIFFUSER FOR INITIAL STARTUP, REFERENCE SPECIFICATIONS. 7. PROVIDE WITH PRESSURE GAGE AND GAGE COCKS (DISCHARGE AND UPSTREAM AND DOWNSTREAM OF STRAINER). 8. PROVIDE WITH FLEXIBLE PIPE CONNECTORS.								

EXPANSION TANK SCHEDULE						
MARK	MANUFACTURER MODEL	SERVICE	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	WEIGHT (LBS)	REMARKS
ET-1						
REMARKS: 1. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS FOR WARRANTY. 2. REFER TO DETAIL FOR ADDITIONAL COMPONENTS AND CONFIGURATION. 3. EXPANSION TANK SIZING BASED ON EXPANSION TANK LOCATED I N FIRST FLOOR MECHANICAL ROOM AND A MAXIMUM TEMPERATURE DIFFERENCE OF 50°F.						

AIR & DIRT SEPARATOR SCHEDULE							
MARK	MANUFACTURER MODEL	SERVICE	FLOW RATE (GPM)	PIPE SIZE (IN)	MAX PD (FT)	WEIGHT (LBS)	REMARKS
AS-1	SPIROTHERM VDT	CHILLED WATER	154				
AS-2	SPIROTHERM VDT	HEATING WATER	34				
REMARKS: 1. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS FOR WARRANTY. 2. REFER TO DETAIL FOR ADDITIONAL COMPONENTS AND CONFIGURATION. 3. PROVIDE FLANGED CONNECTIONS. 4. PROVIDE WELDED STEEL CONSTRUCTION. 5. PROVIDE WITH BLOWDOWN VALVE. 6. PROVIDE WITH MANUFACTURER'S AUTOMATIC AIR VENT AND PIPE TO NEAREST FLOOR DRAIN. 7. HANG SEPARATOR FROM STRUCTURE. 8. INSULATE SEPARATOR PER SPECIFICATION REQUIREMENTS.							

AIR COOLED CHILLER SCHEDULE		
MARK		ACC-1
MFG		TRANE
MODEL		CGAM-52
TYPE		SCROLL
QUANTITY		1
OPERATING WEIGHT (LBS)		3,422
ELECTRICAL SERVICE (V/PH/HZ)		460/3/60
SINGLE POINT ELEC (MCA/MOCP)		106/125
A-WEIGHTED SPL (dBA)		87
COMPRESSOR	QUANTITY	4
	REFRIGERANT TYPE	R410A
	RLA/LRA	21.2/158.0
	INPUT POWER (KW)	57.99
	IPLV/NPLV (EER)	14.08/13.72
	STARTER TYPE	X-LINE
	STARTER FURNISHED BY:	MFG
EVAPORATOR	RATED CAPACITY (TONS)	43.69
	REQUIRED MINIMUM CAPACITY (TONS)	13
	FLUID	PROPYLENE GLYCOL (20%)
	DESIGN WATER FLOW (GPM)	108.5
	MINIMUM WATER FLOW (GPM)	58.79
	EWT/LWT (°F)	54/44
	# OF CIRCUITS	2
COND.	MAX PRESSURE DROP (FT)	16.3
	FAN QUANTITY	4
	TOTAL AIR FLOW (CFM)	33,366
COND.	DESIGN CONDENSING TEMPERATURE (°F)	105
	REMARKS:	ALL
REMARKS:		
1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.		
2. DELUXE SOUND PACKAGE (COMPRESSOR, CONDENSER FANS).		
3. ARCHITECTURAL LOUVERED PANELS.		
4. HAIL GUARDS.		
5. NON-FUSED DISCONNECT.		
6. SINGLE POINT POWER CONNECTION.		
7. NEMA 4 FLOW SWITCH.		
8. FACTORY STARTUP AND TRAINING.		
9. LOW AMBIENT TO 0°F.		
10. 5 YEAR COMPRESSOR WARRANTY (PARTS ONLY).		
11. SUCTION SERVICE VALVES.		
12. ARI CERTIFIED.		
13. ASHRAE 90.1/CSA COMPLIANT.		
14. CUL LISTING.		
15. PROVIDE HIGH AMBIENT OPERATION TO 115°F.		
16. FREEZE PROTECTION FACTORY INSTALLED AND POWERED THROUGH SINGLE POINT POWER CONNECTION.		
17. PROVIDE MANUFACTURER'S BACNET CONTROL PANEL FOR CHILLER CONTROL. ALL AVAILABLE POINTS SHALL BE PROGRAMMED AT BAS.		
18. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR AIRFLOW AND MAINTENANCE.		
19. PROVIDE FLEXIBLE CONNECTION TO CHILLER.		
20. PROVIDE ISOLATION AS REQUIRED BY CHILLER MANUFACTURER FOR MOUNTING TO ROOF STRUCTURE.		

HEAT TRACE SCHEDULE					
MARK	MFG MODEL	SERVICE	V/PH/HZ	W/FT	REMARKS
HT-1	CHROMALOX ---	SEE PLANS	120/1/60	5	1-8
REMARKS: 1. INSTALL PER MANUFACTURER'S REQUIREMENTS. 2. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 3. PROVIDE MANUFACTURER'S POWER CONNECTION SET KIT. 4. AFFIX TO PIPE USING FIBERGLASS TAPE. 5. HEAT TRACE TO MAINTAIN 40°F FLUID TEMPERATURE AT 0°F. 6. PROVIDE ONE MANUFACTURER'S LOCAL THERMOSTAT PER CIRCUIT WITH NEMA 4X ENCLOSURE RATED FOR OUTDOOR APPLICATION. HEAT TRACE TO BE ENABLED AT 40°F AMBIENT. 7. PROVIDE END SEGMENTS AND JUNCTION BOXES AS REQUIRED. 8. WRAP VALVES AND FITTINGS PER MANUFACTURER'S REQUIREMENTS, SO THAT VALVES AND FITTINGS CAN BE DISASSEMBLED AND REMOVED WITHOUT COMPLETELY REMOVING HEAT TRACE FROM EACH LINE. 9. DISCONNECT BY ELECTRICAL.					

FAN COIL UNIT SCHEDULE													
MARK		FCU-101	FCU-102A, 102B	FCU-103	FCU-104, 105	FCU-106	FCU-107, 301	FCU-108	FCU-109	FCU-110, 111	FCU-112	FCU-113	REMARKS:
MANUFACTURER		ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	
MODEL		HPP	HPP	HPP	HPP	HPP	HPP	HPP	HPP	HPP	HPP	HPP	
SUPPLY FAN	SIZE	16	14	14	08	18	08	18	20	10	12	14	
	CFM	920	835	830	450	1020	400	1080	1200	600	660	900	
	ESP	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
	HP	(2) 1/3	(2) 1/3	(2) 1/3	(1) 1/3	(2) 1/3	(1) 1/3	(2) 1/3	(2) 1/2	(1) 1/3	(1) 1/2	(2) 1/3	
	ELECTRICAL (V/PH/HZ)	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	
COOLING COIL	TOTAL CAP. (MBH)	18.3	16.8	16.8	9.2	20.6	8.6	21.5	23.4	12.0	13.4	18.0	
	SENSIBLE CAP. (MBH)	17.8	16.3	16.2	8.8	19.9	8.1	20.9	22.8	11.6	13.0	17.4	
	ENTERING AIR (°F, DB/WB)	72/60	72/60	72/60	72/60	72/60	72/60	72/60	72/60	72/60	72/60	72/60	
	LEAVING AIR (°F, DB/WB)	54.3/52.7	54.1/52.6	54.5/2.5	54.0/52.5	54.1/52.6	53.3/52.1	54.2/52.7	54.6/52.9	54.3/52.7	54.0/52.3	54.3/52.6	
	ROWS	4	4	4	4	4	4	4	4	4	4	4	
	FPI	12	12	12	12	12	12	12	12	12	12	12	
	WATER FLOW (GPM)	4.1	3.8	3.8	2	4.5	1.9	4.8	5.1	2.6	3.2	4	
	EWTLWT (°F)	44/54	44/54	44/54	44/54	44/54	44/54	44/54	44/54	44/54	44/54	44/54	
	WPD (FT)	3.1	4.6	4.6	4.6	1.3	4.0	3.0	1.7	3.7	3.0	5.2	
HEATING COIL	TOTAL CAP. (MBH)	28.2	--	24.7	--	31.8	--	32.8	--	20.8	--	25.7	
	ENTERING AIR (°F, DB)	68	--	68	--	68	--	68	--	68	--	68	
	LEAVING AIR (°F, DB)	94.8	--	93.9	--	95.4	--	94.8	--	98.8	--	92.9	
	ROWS	1	--	1	--	1	--	1	--	1	--	1	
	FPI	12	--	12	--	12	--	12	--	12	--	12	
	WATER FLOW (GPM)	1.8	--	1.6	--	2.1	--	2.1	--	1.4	--	1.6	
	EWTLWT (°F)	150/120	--	150/120	--	150/120	--	150/120	--	150/120	--	150/120	
	WPD (FT)	0.83	--	0.56	--	1.2	--	1.3	--	1.2	--	0.6	
REMARKS:		ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL		

1. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
3. PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL DUCT CONNECTIONS.
4. THE CONTRACTOR SHALL PROVIDE A WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHUT OFF THE EQUIPMENT IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE, OR IN THE EQUIPMENT-SUPPLIED DRAIN PAN, LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
5. STAINLESS STEEL DRIP PAN.
6. PROVIDE ECM MOTOR.
7. PROVIDE HINGED FILTER ACCESS. MAINTAIN ALL MANUFACTURER'S CLEARANCES FOR FILTER CHANGE.
8. PROVIDE ENHANCED CABINET INSULATION FOR SOUND PERFORMANCE.
9. PROVIDE COIL PACKAGES PER DETAIL WITH PRESSURE INDEPENDENT CONTROL VALVE.
10. PROVIDE SPRING HANGER ISOLATION. REFER TO DETAILS.
11. PROVIDE WITH INTEGRAL NON-FUSED DISCONNECT.

FAN COIL UNIT SCHEDULE (CONTINUED)										
MARK		FCU-201, 205	FCU-202, 211	FCU-203, 204, 212	FCU-206	FCU-207	FCU-208	FCU-209	FCU-210, 214	FCU-213
MANUFACTURER		ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC
MODEL		HPP	HPP	HPP	HPP	HPP	HPP	HPP	HPP	HPP
SUPPLY FAN	SIZE	12	16	14	08	14	06	18	14	10
	CFM	670	950	850	415	880	230	1100	750	550
	ESP	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
	HP	(1) 1/2	(2) 1/3	(2) 1/3	(1) 1/3	(2) 1/3	(1) 1/3	(2) 1/3	(2) 1/3	(1) 1/3
	ELECTRICAL (V/PH/HZ)	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
COOLING COIL	TOTAL CAP. (MBH)	13.5	18.6	17.0	8.8	17.8	4.6	21.9	15.4	10.9
	SENSIBLE CAP. (MBH)	13.1	18.1	16.4	8.3	17.1	4.3	21.2	14.8	10.6
	ENTERING AIR (°F, DB/WB)	72/60	72/60	72/60	72/60	72/60	72/60	72/60	72/60	72/60
	LEAVING AIR (°F, DB/WB)	54.1/52.4	54.5/52.8	54.3/52.6	53.4/52.2	54.1/52.5	54.7/52.6	54.3/52.7	53.9/52.4	54.4/52.7
	ROWS	4	4	4	4	4	3	4	4	4
	FPI	12	12	12	12	12	12	12	12	12
	WATER FLOW (GPM)	3.2	4.1	3.8	1.9	4	1.1	4.8	3.5	2.4
	EWTL/LWT (°F)	44/54	44/54	44/54	44/54	44/54	44/54	44/54	44/54	44/54
	WPD (FT)	3.0	3.3	4.6	4.3	5.2	3.0	3.1	3.7	3.1
HEATING COIL	TOTAL CAP. (MBH)	25.9	--	25.0	15.1	25.5	--	--	23.4	--
	ENTERING AIR (°F, DB)	68	--	68	68	68	--	--	68	--
	LEAVING AIR (°F, DB)	100.6	--	93.6	100.6	93.2	--	--	95.0	--
	ROWS	1	--	1	1	1	--	--	1	--
	FPI	12	--	12	12	12	--	--	12	--
	WATER FLOW (GPM)	1.6	--	1.6	1	1.6	--	--	1.5	--
	EWTL/LWT (°F)	150/120	--	150/120	150/120	150/120	--	--	150/120	--
	WPD (FT)	2.07	--	0.57	0.58	0.59	--	--	0.51	--
REMARKS:		ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	

GH2

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06/11/20

CYNTERGY ENGINEERING, PLLC
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SHEET NAME:
**MECHANICAL
SCHEDULES**

SHEET NUMBER:
M-602

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LOUVER SCHEDULE						
MARK	MANUFACTURER MODEL	WIDTH (IN)	HEIGHT (IN)	MAX VELOCITY (FT/MIN)	MAX PD (INWC)	REMARKS
L-1	GREENHECK ESD-635	26	26	850	0.10	ALL
REMARKS: 1. PROVIDE BIRD SCREEN. 2. PROVIDE GRAVITY BACKDRAFT DAMPER. 3. COORDINATE INSTALLATION WITH WALL TYPE AND PROVIDE LOUVERS WITH FACTORY PRIME COAT. FINAL FINISH COLOR SHALL BE COORDINATED WITH ARCHITECT. 4. PROVIDE MANUFACTURER'S WALL SLEEVE.						

INTAKE & EXHAUST HOOD SCHEDULE								
MARK	MANUFACTURER MODEL	SERVICE	CFM	MAX PD (INWC)	DIMENSIONS (IN)		WEIGHT (LBS)	REMARKS
					THROAT	HOOD		
IH-1	GREENHECK FGI 24x30	DOAU-1 O/A INTAKE	2,270	0.05	30X36	49X51	91	ALL
REMARKS: 1. PROVIDE MANUFACTURER'S ROOF CURB. 2. PROVIDE MANUFACTURER'S BIRDSCREEN. 3. PROVIDE MANUFACTURER'S GRAVITY BACKDRAFT DAMPER.								

AIR DEVICE SCHEDULE									
MARK	MANUFACTURER MODEL	SERVICE	TYPE	MOUNTING	FACE SIZE	SLOTS	SLOT WIDTH	SLOT LENGTH	REMARKS
S1	TITUS TMS	S/A	LOUVERED	LAY-IN (UNO)	24x24				1,2,3,4,5,10
B	TITUS 25RL	R/A,E/A	LOUVERED	LAY-IN (UNO)	24x24				2,3,4,5,6
S2	TITUS 300RL	S/A	SEDEWALL	SURFACE					3,4
S3	TITUS FL-10	S/A	LINEAR SLOT	SURFACE		1"	1"	60"	2,3,4,7,9
D	TITUS FL-10-HT	S/A	LINEAR SLOT	SURFACE		1"	1"	SEE PLANS	2,3,4,7,9
E	TITUS FL-10-HT	S/A	LINEAR SLOT	SURFACE		2"	1"	SEE PLANS	2,3,4,8,9
F	TITUS DL	S/A	DRUM LOUVER	SURFACE					3,4
G	TITUS ZCOM	S/A	VAV DIFFUSER	LAY-IN (UNO)					1,2,3,4
R1	TITUS 510Z	R/A	LOUVERED	LAY-IN (UNO)	60"X12"				2,3,4,5,6
REMARKS: 1. PROVIDE 4-WAY PATTERN EXCEPT AS OTHERWISE SHOWN ON DRAWINGS. 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ACTUAL MOUNTING REQUIREMENTS. 3. PROVIDE STANDARD WHITE FINISH. 4. REFER TO PLANS FOR NECK SIZES. 5. PROVIDE 12x12 FACE SIZE AS INDICATED ON PLANS, UNO. 6. PROVIDE ALUMINUM GRILLES (600 SERIES) IN SHOWER AND RESTROOM AREAS. 7. PROVIDE INSULATED PLENUM, CONCEALED MOUNTING, END CAPS & ALIGNMENT STRIPS. 8. PLENUM & MOUNTING REQUIREMENTS VARY. SEE PLANS AND COORDINATE WITH MANUFACTURER. 9. VERIFY MOUNTING DETAILS WITH ARCHITECT AND CALL FOR ANY REQUIRED END CAPS, CLIPS, HANGER SUPPORTS, ETC. AS REQUIRED. 10. PROVIDE DIFFUSER WITH INSULATED BACK PANEL. [NTD: FOR DUCT MOUNTED SEDEWALL GRILLES COORDINATE THE RUNOUT SIZE WITH THE FACE SIZE (NOT NECK SIZE) OF THE GRILLE. THIS WILL ENSURE THAT THE BORDER OF THE GRILLE DOES NOT EXTEND PAST THE DUCTWORK ON ALL SIDES.]									

HYDRONIC UNIT HEATER SCHEDULE														
MARK	MANUFACTURER MODEL	AREA SERVED	CFM	EAT (DB, °F)	LAT (DB, °F)	HEATING CAPACITY (BTUH)	EWI/ LWT (°F)	WATER FLOW (GPM)	WPD (FEET)	ROWS	AMPS	V/PH/HZ	WEIGHT (LB)	REMARKS
UH-1	REZNOR WS 18	FIRE RISER	400	50	68.5	8,006	150/120	0.5	0.06	1	0.3	115/1/60	37	ALL
REMARKS: 1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 2. UNIT HEATER TO MAINTAIN 60°F SPACE TEMPERATURE (ADJUSTABLE). 3. PROVIDE REMOTE THERMOSTAT. 4. PROVIDE WITH FACTORY MOUNTING BRACKET FOR HORIZONTAL DISCHARGE. 5. DISCONNECT BY ELECTRICAL.														

PACKAGED ROOFTOP HVAC EQUIPMENT																		
MARK	MANUFACTURER MODEL	AREA SERVED	CAPACITY										EVAP FAN		ELECTRICAL		WEIGHT	REMARKS
			COOLING					HEATING					S/A	HP	MCA/ MOCp	V/PH/HZ	UNIT + CURB (LBS)	
			NOMINAL TONS	QT (MBH)	QS (MBH)	EAT (DB/WB, °F)	LAT (DB/WB, °F)	IN (MBH)	OUT (MBH)	TURNDOWN	EAT (DB, °F)	LAT (DB, °F)						
RTU-1	TRANE OAKD240A4	BAR/LOUNGE	20	215	150.5	79.8/66	51/50.9	250	200	10:1	56.4	93.4	5,000	5	46.7/60	460/3/60	3,522 + XXX	ALL
													970	2				
REMARKS:																		
1. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION REQUIREMENTS. 2. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. 3. PROVIDE WITH NON-FUSED UNIT DISCONNECT. 4. PROVIDE WITH FACTORY-WIRED AND FACTORY-POWERED CONVENIENCE OUTLET. 5. PROVIDE WITH THROUGH-THE-CURB ELECTRICAL PROVISION. 6. PROVIDE WITH MANUFACTURER'S INSULATED ROOF CURB. HEIGHT OF ROOF CURB SHALL BE A MINIMUM OF 14 INCHES. CONTRACTOR SHALL PROVIDE A TALLER CURB AS REQUIRED TO PROVIDE SUFFICIENT CLEARANCE ABOVE ROOF INSULATION FOR PROPER RTU INSTALLATION. 7. PROVIDE TIE-DOWN CLIPS. 8. PROVIDE WITH HINGED ACCESS DOORS AND 2" MERV 8 FILTERS. 9. PROVIDE WITH MANUFACTURER'S SMOKE DETECTOR FOR UNITS OVER 2,000 CFM. FIELD-INSTALL IN THE RETURN AIRSTREAM AND WIRE FOR UNIT SHUT-DOWN UPON DETECTION. CONNECT TO FIRE ALARM PANEL. FINAL CONNECTION SHALL BE BY FIRE ALARM CONTRACTOR. DETECTOR SHALL BE RESETTABLE AT FIRE ALARM PANEL. 9. HORIZONTAL INTAKE/DISCHARGE (SEE PLANS). 10. STAINLESS STEEL CONDENSATE PAN AND CONDENSATE OVERFLOW SWITCH WIRED TO SHUT DOWN UNIT UPON DETECTION. 11. FAN HAIL AND SAFETY GUARDS. 12. PROVIDE FACTORY STARTUP, 1 YEAR LABOR WARRANTY, 1 YEAR PARTS WARRANTY, 5 YEAR COMPRESSOR WARRANTY, AND 10 YEAR HEAT EXCHANGER WARRANTY. 13. UNIT TO HAVE ECONOMIZER WITH DUAL ENTHALPY LOGIC. PROVIDE MOTORIZED MODULATING LOW LEAKAGE RETURN AND OUTDOOR AIR DAMPERS SUITABLE FOR ECONOMIZER OPERATION. 14. MODULATING HOT GAS REHEAT AND HUMIDITY CONTROL SEQUENCE. 15. UNIT CAPACITIES CALCULATED AT 105°F CONDENSING TEMPERATURE FOR DESIGN CONDITION. 16. DIGITAL SCROLL LEAD COMPRESSOR FOR PART LOAD OPERATION. 17. TIME DELAY BETWEEN RESTARTS. 18. SUPPLY FAN VFD AND CONTROLS FOR SINGLE ZONE OPERATION. PROVIDE BACNET INTERFACE FOR CONNECTION TO BAS. 22. BAROMETRIC RELIEF. 23. CAPACITIES NOTED ARE NET (INCLUDING FAN HEAT). SUBMITTED UNIT MUST MEET NET VALUES (SUBMITTALS BASED AROUND GROSS CAPACITY WILL BE REJECTED). 24. STAINLESS STEEL HEAT EXCHANGER WITH TURNDOWN AS NOTED. 25. 2" DOUBLE WALL CONSTRUCTION. 26. PROVIDE SCHEDULED MANUFACTURER OR APPROVED EQUAL BY: CARRIER, LENNOX, JOHNSON CONTROLS.																		



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CONTROLS NARRATIVE

THE FOLLOWING REPRESENTS A GENERAL NARRATIVE OF THE EQUIPMENT SEQUENCES. REFER TO SPECIFIC EQUIPMENT SEQUENCES AND SCHEMATICS (TO BE DEVELOPED FURTHER DURING SUBSEQUENT DESIGN PHASES) FOR MORE DETAIL.

GENERAL
A BACNET PROTOCOL BUILDING AUTOMATION SYSTEM (BAS) WILL BE PROVIDED FOR CONTROL OF ALL EQUIPMENT (UNLESS OTHERWISE NOTED), AND TO ALLOW TRENDDING AND ALARMS WHERE NECESSARY. A GRAPHICAL USER INTERFACE (GUI) WILL BE PROVIDED TO ALLOW OPERATOR INTERACTION WITH THE CONTROLS SYSTEM, EQUIPMENT, AND VARIOUS USER-ADJUSTABLE SETPOINTS.

CHILLER
THE CHILLER WILL OPERATE BASED ON ITS OWN INTERNAL SAFETIES AND CONTROLS TO MAINTAIN A CHILLED WATER SUPPLY TEMPERATURE SETPOINT.

CHILLED WATER PUMPS
THE CHILLED WATER PUMPS WILL OPERATE IN A LEAD/LAG FASHION. PUMP SPEED WILL VARY USING VFD BASED ON CHILLED WATER DIFFERENTIAL PRESSURE TO MAINTAIN A DIFFERENTIAL PRESSURE SETPOINT AS DETERMINED DURING TEST AND BALANCE (TAB).

THE MAJORITY OF THE CHILLED WATER LOADS WILL BE PROVIDED WITH 2-WAY VALVES (EXCEPT THOSE AT THE ENDS OF THE BRANCH MAINS, WHICH WILL BE PROVIDED WITH 3-WAY VALVES TO MAINTAIN CHILLED WATER CIRCULATION). A MAIN SYSTEM BYPASS MAY ALSO BE PROVIDED TO ALLOW FOR MINIMUM FLOW TO THE CHILLER AND/OR CHILLED WATER PUMPS.

CHILLED WATER SYSTEM
THE CHILLED WATER SYSTEM WILL OPERATE IN A VARIABLE PRIMARY CONFIGURATION. PUMP SPEED WILL VARY BASED ON SYSTEM DEMAND AND THE MINIMUM FLOW THROUGH THE CHILLER WILL BE MAINTAINED AT A LL TIMES (AN ELECTROMAGNETIC FLOW METER WILL BE PROVIDED TO MEASURE TOTAL CHILLED WATER FLOW TO CONTROL ANY CHILLED WATER SYSTEM BYPASS, AS NECESSARY).

THE CHILLED WATER SYSTEM WILL BE PROVIDED WITH 20% PROPYLENE GLYCOL FOR FREEZE PROTECTION. ADDITIONALLY, ALL EXPOSED CHILLED WATER PIPING WILL BE INSULATED AND HEAT TRACED, AND THE CHILLER ITSELF WILL BE PROVIDED WITH ON-BOARD FREEZE PROTECTION. THE 20% PROPYLENE GLYCOL WILL PREVENT SYSTEM BURST DOWN TO 11 DEG. F. PART OF THE OPERATION AND MAINTENANCE OF THE BUILDING WILL BE TO MONITOR FOR LOSS OF POWER DURING CONDITIONS COLDER THAN THIS AMBIENT TEMPERATURE. A MANUAL DRAIN DOWN OF THE SYSTEM MAY BE REQUIRED DURING A LOSS OF POWER CONDITION BELOW THIS AMBIENT TEMPERATURE. AS FREEZE PROTECTION MECHANISMS (RUN AROUND PUMP, HEAT TRACE, ETC.) WILL NOT BE FUNCTIONAL DURING A LOSS OF POWER. ADDITIONALLY, REGULAR SYSTEM GLYCOL VOLUME CHECKS ARE RECOMMENDED TO AVOID LOSS OF FREEZE PROTECTION.

BOILER
THE BOILER WILL OPERATE BASED ON ITS OWN INTERNAL SAFETIES AND CONTROLS TO MAINTAIN A HEATING WATER SUPPLY TEMPERATURE SETPOINT.

HEATING WATER PUMPS
THE HEATING WATER PUMPS WILL OPERATE IN A LEAD/LAG FASHION. PUMP SPEED WILL VARY USING VFD BASED ON HEATING WATER DIFFERENTIAL PRESSURE TO MAINTAIN A DIFFERENTIAL PRESSURE SETPOINT AS DETERMINED DURING TEST AND BALANCE (TAB).

THE MAJORITY OF THE HEATING WATER LOADS WILL BE PROVIDED WITH 2-WAY VALVES (EXCEPT THOSE AT THE ENDS OF THE BRANCH MAINS, WHICH WILL BE PROVIDED WITH 3-WAY VALVES TO MAINTAIN HEATING WATER CIRCULATION). A MAIN SYSTEM BYPASS MAY ALSO BE PROVIDED TO ALLOW FOR MINIMUM FLOW TO THE BOILER AND/OR HEATING WATER PUMPS.

HEATING WATER SYSTEM
THE HEATING WATER SYSTEM WILL OPERATE IN A VARIABLE PRIMARY CONFIGURATION. PUMP SPEED WILL VARY BASED ON SYSTEM DEMAND AND THE MINIMUM FLOW THROUGH THE BOILER WILL BE MAINTAINED AT A LL TIMES (AN ELECTROMAGNETIC FLOW METER WILL BE PROVIDED TO MEASURE TOTAL HEATING WATER FLOW TO CONTROL ANY HEATING WATER SYSTEM BYPASS, AS NECESSARY).

DEDICATED OUTSIDE AIR UNIT
THE DEDICATED OUTSIDE AIR UNIT WILL OPERATE ON A SCHEDULED BASIS. IN OCCUPIED MODE, THE DOAU WILL RUN CONTINUOUSLY AT A CONSTANT SPEED. THE UNIT WILL DELIVER NEUTRAL AIR AT ALL TIMES. WHEN COOLING IS REQUIRED FOR THE OUTSIDE AIR, THE CHILLED WATER VALVE WILL MODULATE TO MAINTAIN A SPECIFIC POST-COIL DEWPOINT AND THE REHEAT COIL WILL OPERATE AS NECESSARY TO REHEAT THE AIR TO A NEUTRAL SETPOINT.

FAN COIL UNITS
FAN COIL UNIT FANS WILL OPERATE WHEN THERE IS A CALL FOR HEATING OR COOLING BASED ON THE SPACE THERMOSTAT SETPOINT (THERMOSTAT SETPOINTS WILL BE LOCKED TO A SPECIFIC RANGE BUT WILL OTHERWISE BE ADJUSTABLE BY OCCUPANTS). DURING A CALL OF HEATING OR COOLING, THE HEATING OR CHILLED WATER VALES WILL MODULATE AS NECESSARY UNTIL THE SPACE THERMOSTAT IS SATISFIED.

ROOFTOP UNIT (3RD FLOOR BAR/LOUNGE)
THE ROOFTOP UNIT SERVING THE BAR/LOUNGE WILL OPERATE BASED ON A SINGLE-ZONE VARIABLE AIR VOLUME (SZVAV) SEQUENCE. THE FAN SPEED, COOLING SYSTEM, AND HEATING SYSTEM WILL OPERATE BASED ON THE UNITS INTERNAL SAFETIES AND CONTROLS TO MAINTAIN SPACE TEMPERATURE. DEHUMIDIFICATION WILL BE PROVIDED BY MEANS OF MODULATING HOT GAS REHEAT BASED ON SPACE HUMIDITY SETPOINT. DEMAND CONTROL VENTILATION WILL BE EMPLOYED BASED ON SPACE CO2 READINGS. THE UNIT WILL BE PROVIDED WITH DUAL ENTHALPY ECONOMIZER CONTROL FOR ENERGY SAVINGS.

UNIT HEATER
THE UNIT HEATER WILL BE CONTROLLED BASED ON A WALL THERMOSTAT. THE UNIT HEATER WILL NOT BE TIED INTO THE BAS.

EXHAUST FAN
STANDALONE EXHAUST FAN WILL BE INTERLOCKED WITH THE LIGHTS IN THE 3RD FLOOR RESTROOMS. THIS FAN WILL NOT BE TIED INTO THE BAS.

SPACE TEMPERATURE MONITORING
SPACE TEMPERATURE WILL BE MONITORED AND ALARMS PROVIDED WHERE SPACE TEMPERATURE IS OUT OF RANGE.

GH2 ARCHITECTS

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CA # 3537 | EXPIRES 06/30/2020

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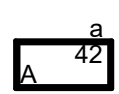










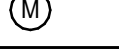
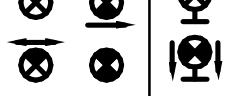


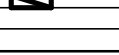
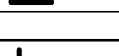

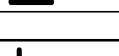
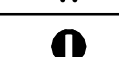


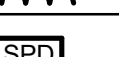

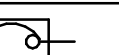

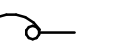
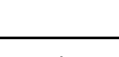
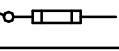
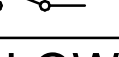
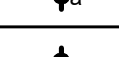

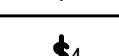






OTHER ISSUE DATES:	
NO.	DESCRIPTION
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SHEET NAME:
MECHANICAL CONTROLS

SHEET NUMBER:
M-701

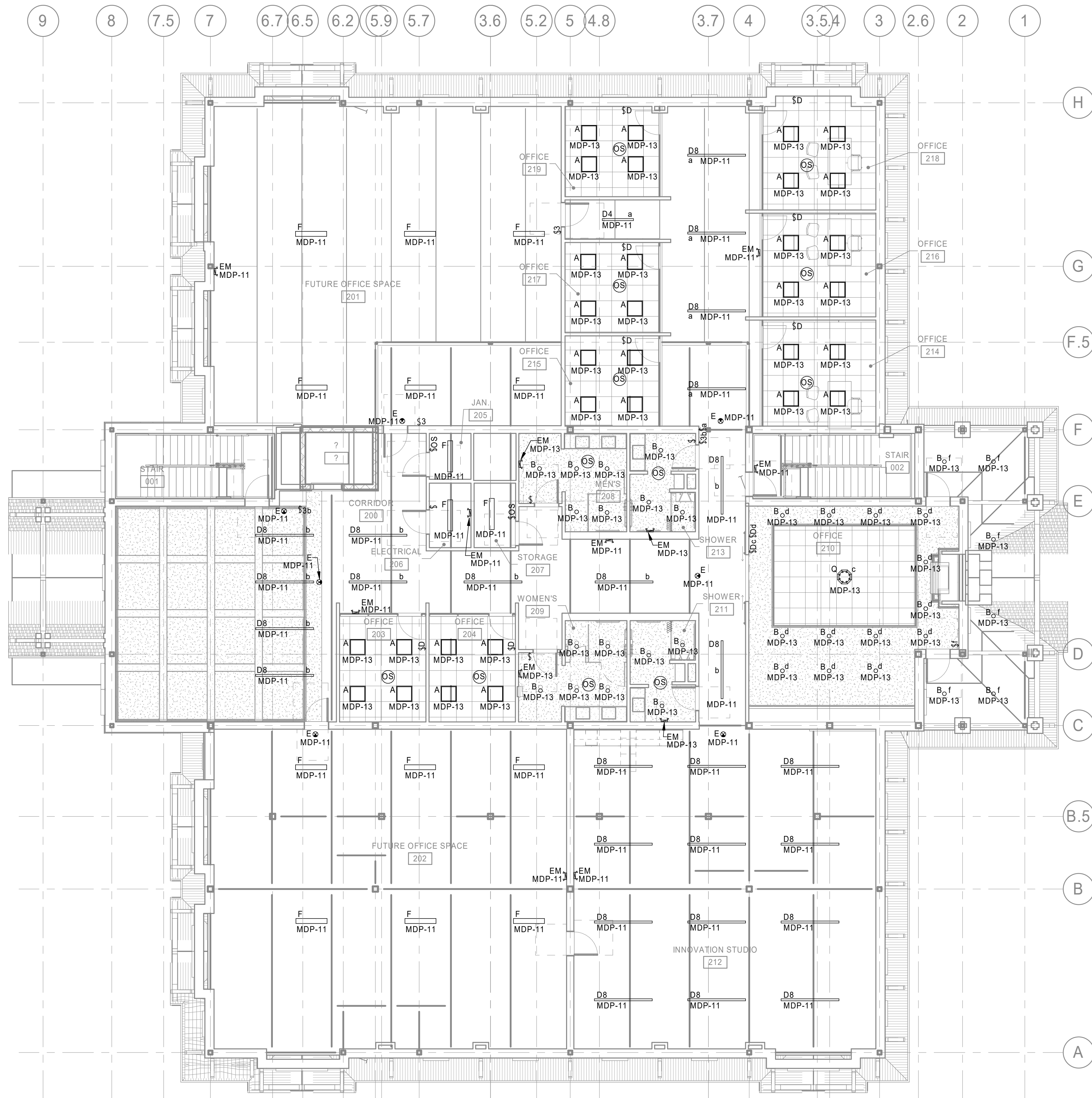
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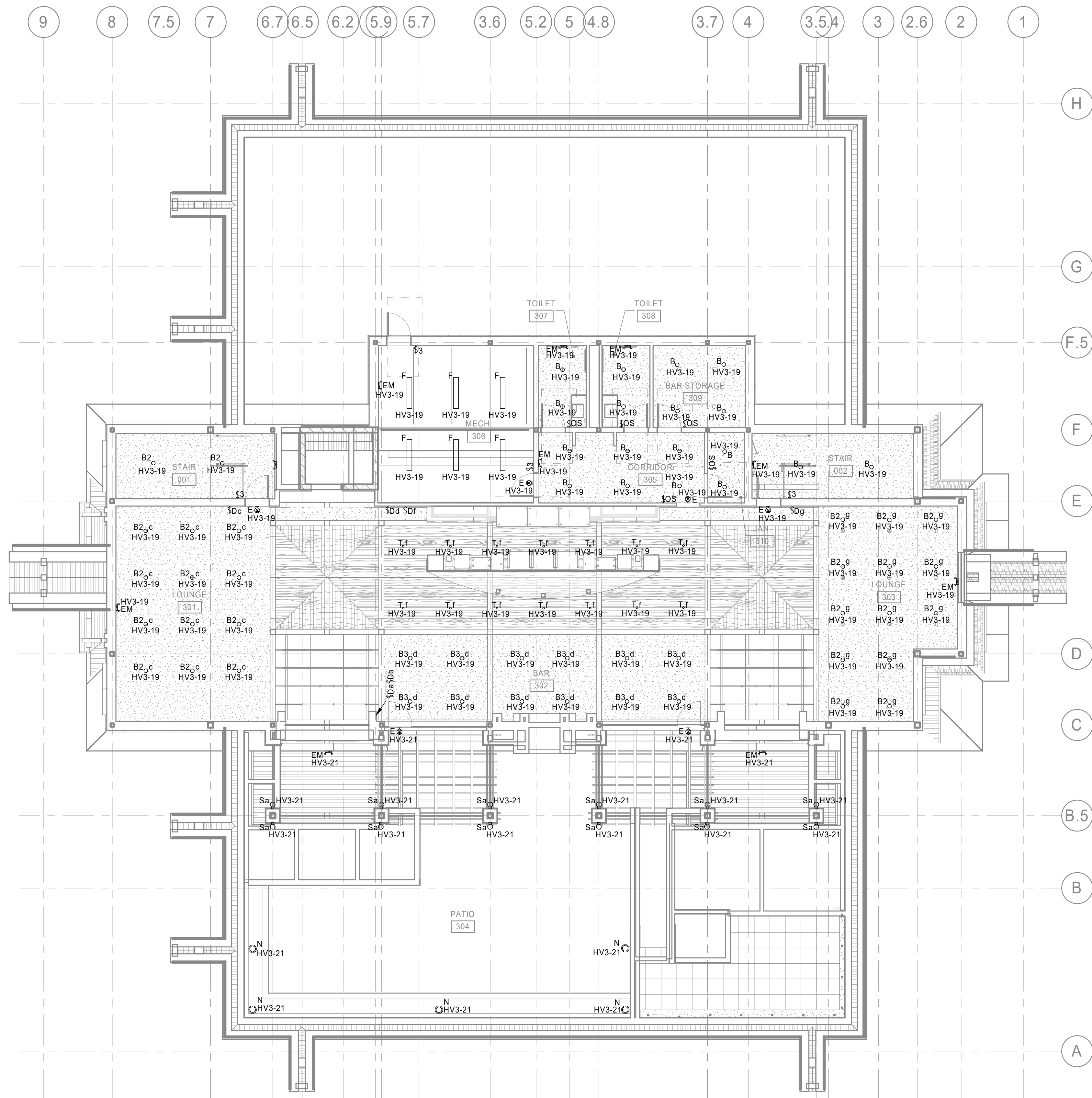
ELECTRICAL SYMBOLS			ELECTRICAL ABBREVIATIONS		
LIGHTING SYMBOLS		DISTRIBUTION SYMBOLS			
	RECESSED FIXTURE, UPPERCASE LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCH DESIGNATION, NUMBER DENOTES CIRCUIT. (TYPICAL)		JUNCTION BOX	A	AC ALTERNATING CURRENT
	RECESSED FIXTURE, NL DENOTES NIGHT LIGHT FOR UNSWITCHED FIXTURE		MOTOR RATED SWITCH WITH THERMAL OVERLOADS, EXCLUDE OVERLOADS IF PROVIDED WITH MOTOR	AFC	ABOVE FINISHED COUNTER
	STRIP LIGHT		NON-FUSED DISCONNECT	AFF	ABOVE FINISHED FLOOR
	DOWN LIGHT		FUSED DISCONNECT	AFG	ABOVE FINISHED GRADE
	WALL MOUNTED FIXTURE		COMBINATION STARTER/DISCONNECT	AHJ	AUTHORITY HAVING JURISDICTION
	SITE LIGHTING		STARTER	AIC	AMPERE INTERRUPTING CAPACITY
	EXIT FIXTURE, BRACKET DENOTES WALL MOUNT, ARROW DENOTES DIRECTION, SHADE DENOTES QUANTITY AND DIRECTION OF EXIT FACE.		METER	AMP	AMPERE
	COMBINATION EMERGENCY FIXTURE/EXIT LIGHT		TRANSFORMER	ATS	AUTOMATIC TRANSFER SWITCH
RECEPTACLE SYMBOLS			MOTOR	AWG	AMERICAN WIRE GAUGE
	DUPLEX RECEPTACLE 18" AFF TO CENTER, UON, NUMBER DENOTES CIRCUIT (TYPICAL)		PANEL, SURFACE MOUNTED	C	
	DOUBLE DUPLEX RECEPTACLE 18" AFF TO CENTER, UON		PANEL, FLUSH MOUNTED	C	CONDUIT
	DUPLEX GROUND-FAULT CIRCUIT-INTERRUPTER RECEPTACLE 18" AFF TO CENTER, UON		EARTH GROUND	CATV	CABLE ANTENNA TELEVISION
	SPECIAL RECEPTACLE 18" AFF TO CENTER, UON		TRANSFORMER	CB, C/B	CIRCUIT BREAKER
	COMBINATION FLOOR BOX		SURGE PROTECTION DEVICE	CCTV	CLOSED CIRCUIT TELEVISION
	RECESSED CEILING DUPLEX RECEPTACLE		BREAKER IN ENCLOSURE	CKT	CIRCUIT
SWITCH SYMBOLS			BREAKER	CLG	CEILING
	SINGLE POLE SWITCH 46" AFF TO CENTER, UON, LOWER CASE LETTER DENOTES SWITCH DESIGNATION		FUSED DISCONNECT SWITCH	CONT	CONTINUATION
	3-WAY SWITCH 46" AFF TO CENTER, UON		NON FUSED DISCONNECT SWITCH	COR	CONTRACTING OFFICER REPRESENTATIVE
	4-WAY SWITCH 46" AFF TO CENTER, UON	LOW VOLTAGE SYMBOLS		D	DEGREE
			BLANK BOX, PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AT 18" AFF TO CENTER (UNO) AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. IN EXPOSED STRUCTURE AREAS, STUB UP TO NEAR DECK WITH AN ELBOW POINTED IN THE DIRECTION OF THE TELECOMM BACKBOARD. PROVIDE CONDUIT WITH PROTECTIVE BUSHING AND PULL STRING. FACEPLATE AND DEVICE BY OTHERS.	DEG	
			TELEPHONE OUTLET, PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AT 18" AFF TO CENTER (UNO) AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. IN EXPOSED STRUCTURE AREAS, STUB UP TO NEAR DECK WITH AN ELBOW POINTED IN THE DIRECTION OF THE TELECOMM BACKBOARD. PROVIDE CONDUIT WITH PROTECTIVE BUSHING AND PULL STRING. CABLING, FACEPLATE, AND DEVICE BY OTHERS.	E	EXISTING TO REMAIN
			DATA OUTLET, PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AT 18" AFF TO CENTER (UNO) AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. IN EXPOSED STRUCTURE AREAS, STUB UP TO NEAR DECK WITH AN ELBOW POINTED IN THE DIRECTION OF THE TELECOMM BACKBOARD. PROVIDE CONDUIT WITH PROTECTIVE BUSHING AND PULL STRING. CABLING, FACEPLATE, AND DEVICE BY OTHERS.	(E)	EXISTING TO BE RELOCATED/REWORKED
			TV OUTLET, PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AT 18" AFF TO CENTER (UNO) AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. IN EXPOSED STRUCTURE AREAS, STUB UP TO NEAR DECK WITH AN ELBOW POINTED IN THE DIRECTION OF THE TELECOMM BACKBOARD. PROVIDE CONDUIT WITH PROTECTIVE BUSHING AND PULL STRING. CABLING, FACEPLATE, AND DEVICE BY OTHERS.	(ER)	
				EA	EACH
				EC	ELECTRICAL CONTRACTOR
				EF	EXHAUST FAN
				EG	EQUIPMENT GROUND
				ELEC	ELECTRICAL
				EMERG	EMERGENCY
				EMT	ELECTRICAL METALLIC TUBING
				ETR	EXISTING TO REMAIN
				F	
				F	FAHRENHEIT
				FLA	FULL LOAD AMPS
				FT	FEET
				G	
				G/GD/GND	GROUND
				H	
				HACR	HEATING, AIR-CONDITIONING, REFRIGERATION
				HP	HORSEPOWER
				HZ	HERTZ (FREQUENCY)
				I	
				IG	ISOLATED GROUND
				IMC	INTERMEDIATE METAL CONDUIT
				IN	INCHES
				J	
				JB	JUNCTION BOX
				K	
				k	KILO
				kcmil	1000 CIRCULAR MILS
				kVA	KILOVOLT AMPS
				kW	KILOWATT
				L	
				LTS	LIGHTS

GENERAL NOTES	
1.	ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING PRIOR TO ORDERING. ALL WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH THE NEC. COORDINATE WITH OTHER TRADES AS REQUIRED.
2.	REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. NOTIFY ENGINEER, IN WRITING, TEN DAYS PRIOR TO BID IF MECHANICAL DOCUMENTS REQUIRE ELECTRICAL CONNECTIONS THAT ARE NOT INDICATED ON ELECTRICAL DOCUMENTS.
3.	ELECTRICAL DISCONNECTS, STARTERS, DEVICES, OR RACEWAYS MOUNTED ON OR ADJACENT TO EQUIPMENT SHALL NOT IMPEDE ACCESS TO THAT EQUIPMENT. DISCONNECTS AND STARTERS SHALL BE INSTALLED IN A LOCATION TO MEET THE NEC WORKING SPACE REQUIREMENTS.
4.	LABEL ALL DISCONNECTS WITH EQUIPMENT DESIGNATION, SERVING PANELBOARD DESIGNATION AND CIRCUIT NUMBER. INTERIOR EQUIPMENT MAY BE LABELED WITH SELF-ADHESIVE VINYL LABELS THAT ARE PREPRINTED, FLEXIBLE, LAMINATED WITH A CLEAR, WEATHER-AND CHEMICAL-RESISTANT COATING. EXTERIOR EQUIPMENT SHALL BE LABELED WITH SCREW RETAINED, UV STABILIZED PHENOLIC LABELS.
5.	COORDINATE WITH MECHANICAL FOR ELECTRICAL CONTROLS WORK NOT PART OF CONTROLS CONTRACTOR SCOPE OF WORK.
6.	PRIOR APPROVAL REQUESTS: ALL MANUFACTURER PRIOR APPROVAL REQUESTS FOR EQUIPMENT AND MATERIALS NOT LISTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR ENGINEER AND ARCHITECT REVIEW PRIOR TO BID IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. UNLESS NOTED OTHERWISE, PRIOR APPROVAL REQUESTS SHALL BE SUBMITTED NOT LESS THAN TEN CALENDAR DAYS PRIOR TO BID. ENGINEER'S PRIOR APPROVAL REVIEW WILL BE LIMITED TO A CURSORY REVIEW FOR GENERAL CONFORMANCE. ENGINEER WILL ISSUE AN ADDENDUM IDENTIFYING ANY ADDITIONAL MANUFACTURERS THAT ARE APPROVED FOR BIDDING. AFTER PROJECT AWARD, THE CONSTRUCTION MANAGER, ARCHITECT, AND ENGINEER WILL DO A DETAILED REVIEW OF THE EQUIPMENT SUBMITTALS. PROVIDED PRODUCTS SHALL COMPLY WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS REGARDLESS OF WHAT WAS SUBMITTED FOR THE PRIOR APPROVAL REQUEST. MANUFACTURERS THAT ARE SUBMITTED AFTER PROJECT AWARD THAT ARE NOT LISTED IN THE BID DOCUMENTS (DRAWINGS, SPECIFICATIONS, AND OR ADDENDUMS) WILL BE REJECTED.
7.	ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE INSTALLED IN DEDICATED CONDUITS.
8.	SLEEVE ALL WALL, FLOOR AND CEILING PENETRATIONS FOR CABLE INSTALLATIONS. SUPPORT SLEEVES ACCORDINGLY. FIRESTOP AROUND AND IN SLEEVES AS REQUIRED. FIRESTOP MATERIAL IN SLEEVE SHALL BE REMOVABLE FOR FUTURE INSTALLATION OF CABLES.
9.	CONTRACTOR SHALL REVIEW ALL SPECIFICATIONS/PROJECT MANUAL, ARCHITECTURAL, INTERIORS, CIVIL, LANDSCAPE, STRUCTURAL, FIRE PROTECTION, AND MECHANICAL DOCUMENTS, PRIOR TO BID, INCLUDING, BUT NOT LIMITED TO, DOOR SCHEDULES, REFLECTED CEILING PLANS, ARCHITECTURAL DETAILS, MECHANICAL PLANS, AND MECHANICAL SCHEDULES. REQUIREMENTS AND INFORMATION NECESSARY FOR THE ELECTRICAL MAY BE FOUND IN OTHER DISCIPLINE'S DOCUMENTS. NOTIFY ENGINEER, IN WRITING, TEN DAYS PRIOR TO BID IF OTHER DISCIPLINE'S DOCUMENTS REQUIRE ELECTRICAL CONNECTIONS THAT ARE NOT INDICATED ON ELECTRICAL DOCUMENTS.
10.	COORDINATE MOUNTING HEIGHTS/LOCATIONS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL DOCUMENTS.
11.	COORDINATE MOUNTING HEIGHTS OF WALL MOUNTED DEVICES WITH MASONRY AND ARCHITECTURAL WALL FINISHES (I.E. TILE). NOTIFY ENGINEER AND OR ARCHITECT IF MOUNTING HEIGHTS SHOULD BE ADJUSTED.
12.	COORDINATE EXACT LOCATION OF FLOOR DEVICES WITH ARCHITECTURAL AND STRUCTURAL PRIOR TO PROCEEDING WITH THE INSTALLATION.
13.	ALL 15A AND 20A, 120V CIRCUITS WITH CIRCUIT LENGTH GREATER THAN 100' SHALL BE #10 AWG MINIMUM.
14.	A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE CIRCUIT CONDUCTORS, WHETHER INDICATED ON THE DRAWINGS OR NOT. METAL RACEWAY, CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE PREFERRED EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF NEC ARTICLE 250.
15.	THE WORD "PROVIDE" AS USED IN THE CONTRACT DOCUMENTS SHALL MEAN TO FURNISH AND INSTALL, UNLESS OTHERWISE NOTED.
16.	PROVIDE THREE SPARE 3/4" CONDUITS FROM ALL FLUSH MOUNTED PANELBOARDS TO AN ACCESSIBLE CEILING SPACE.
17.	PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
18.	CONTRACTOR SHALL UPDATE ALL PANELBOARD DIRECTORIES WITH ALL NEW CIRCUITS. DIRECTORIES SHALL BE TYPED. ALL SPARE CIRCUIT BREAKERS SHALL BE LABELED AS 'SPARE' AND TURNED OFF.
19.	PROVIDE ALL LIGHTING CONTROL DEVICES, AT ONE LOCATION, UNDER A COMMON COVER PLATE, UNLESS NOTED OTHERWISE. PROVIDE BARRIER IN BOX WHERE DEVICES ARE SHOWN SIDE BY SIDE CONTROLLING DIFFERENT VOLTAGES.
20.	DIMMERS SHALL BE SLIDE-TO-OFF TYPE. DIMMERS SHALL NOT BE LOADED MORE THAN 80% OF THE RATED (OR DE-RATED) CAPACITY. DE-RATE DIMMERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE EXACT DIMMER TYPE IN ACCORDANCE WITH THE TYPE OF LOAD SERVED. PROVIDE DEDICATED NEUTRAL FOR ALL DIMMING PHASE CONDUCTORS. IF ADJUSTABLE HIGH LEVEL TRIM IS PROVIDED WITH THE DIMMER, THE CONTRACTOR SHALL ADJUST TO 100%. DIMMERS AND OR SWITCHES AT ONE LOCATION SHALL BE UNDER ONE COMMON COVER PLATE, UNLESS NOTED OTHERWISE. LIMIT DIMMERS TO NO MORE THAN THREE IN ONE BOX. DEVICE AND COVER PLATE FINISH SHALL MATCH THE SPECIFIED LIGHT SWITCH AND COVER PLATE FINISH, OR AS DIRECTED BY THE ARCHITECT.
21.	ALL EQUIPMENT/DEVICES (INCLUDING LIGHTING ASSEMBLIES) SHALL BE UNDERWRITER LABORATORY (OR OTHER APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY) LISTED AND LABELED FOR INSTALLATION AND INTENDED USE.
22.	VERIFY EXACT POWER REQUIREMENTS AND NEMA CONFIGURATION OF OUTLET REQUIRED FOR OWNER FURNISHED EQUIPMENT BEFORE ROUGH-IN.
23.	OUTLETS SHALL NOT BE MOUNTED BACK TO BACK. A MINIMUM OF 2" SHALL BE PROVIDED BETWEEN OUTLETS.
24.	SURFACE MOUNTED RACEWAYS AND DEVICES WILL BE ALLOWED IN MECHANICAL AREAS AND ELECTRICAL ROOMS ONLY, UNLESS NOTED OTHERWISE.
25.	PROVIDE DEDICATED NEUTRALS FOR GFCI CIRCUITS. GFCI OUTLETS ARE SHOWN FOR ALL OUTLETS REQUIRED TO BE PROTECTED, HOWEVER, ONLY ONE GFCI DEVICE ON EACH CIRCUIT MAY BE INSTALLED TO PROTECT THE GFCI OUTLETS SHOWN. LOCATE GFCI DEVICE IN CIRCUIT TO PROTECT ALL GFCI OUTLETS SHOWN. GFCI SHALL HAVE A 4-6 mA TRIP.
26.	PROVIDE LISTED HANDLE-TIE OR MULTI-POLE CIRCUIT BREAKER FOR CIRCUITS SHARING A COMMON NEUTRAL. HANDLE-TIED OR MULTI-POLE CIRCUIT BREAKERS SHALL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS, THAT SHARE THE COMMON NEUTRAL.
27.	ALL EXTERIOR UNDERGROUND CONDUITS THAT ARE INSTALLED AT A HIGHER ELEVATION THAN WHERE THEY ENTER THE BUILDING/FLOOR SHALL BE MOISTURE SEALED, AFTER CONDUCTOR INSTALLATION, TO PREVENT WATER FROM ENTERING THE BUILDING.
28.	CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM COMPONENTS SHALL HAVE RED IDENTIFICATION ON THE CIRCUIT BREAKER HANDLE.
29.	REFER TO THE BRANCH CIRCUIT SCHEDULE FOR BRANCH CIRCUIT SIZES, UNLESS OTHERWISE NOTED.
30.	EMERGENCY SYSTEMS SHALL BE INSTALLED IN RACEWAYS SEPARATE FROM OTHER SYSTEMS.
31.	PROVIDE PVC COATED GALVANIZED RIGID CONDUIT ELBOWS ON ALL UNDERGROUND CONDUITS AND USE PVC COATED GALVANIZED RIGID CONDUIT WHERE STUBBED UP THROUGH A SLAB. ALL METALLIC SURFACES, INCLUDING FITTINGS, SHALL BE PVC COATED. COATED SURFACES DAMAGED DURING INSTALLATION AND OR CONSTRUCTION SHALL HAVE THE DAMAGED SURFACE TOUCHED-UP WITH MANUFACTURER APPROVED COMPOUND. ALL EXPOSED EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL UNLESS NOTED OTHERWISE.

BRANCH CIRCUIT SCHEDULE					
OVERCURRENT DEVICE	1 POLE/1 PHASE	1 POLE/1 PHASE WITH IG	2 POLE/1 PHASE	3 POLE/3 PHASE OR 2 POLE/1 PHASE WITH NEUTRAL	3 POLE/3 PHASE WITH NEUTRAL
20 AMP	2#12, 1#12G, 1/2"C	2#12, 1#12G, 1#12IG, 1/2"C	2#12, 1#12G, 1/2"C	3#12, 1#12G, 1/2"C	4#12, 1#12G, 1/2"C
25 AMP	2#10, 1#10G, 1/2"C	2#10, 1#10G, 1#10IG, 1/2"C	2#10, 1#10G, 1/2"C	3#10, 1#10G, 1/2"C	4#10, 1#10G, 1/2"C
30 AMP	2#10, 1#10G, 1/2"C	2#10, 1#10G, 1#10IG, 1/2"C	2#10, 1#10G, 1/2"C	3#10, 1#10G, 1/2"C	4#10, 1#10G, 1/2"C
35 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
40 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
45 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
50 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
60 AMP	2#6, 1#10G, 3/4"C	2#6, 1#10G, 1#10IG, 3/4"C	2#6, 1#10G, 3/4"C	3#6, 1#10G, 3/4"C	4#6, 1#10G, 1"C
70 AMP	2#4, 1#8G, 3/4"C	2#4, 1#8G, 1#8IG, 1"C	2#4, 1#8G, 3/4"C	3#4, 1#8G, 1"C	4#4, 1#8G, 1 1/4"C
80 AMP	2#4, 1#8G, 3/4"C	2#4, 1#8G, 1#8IG, 1"C	2#4, 1#8G, 3/4"C	3#4, 1#8G, 1"C	4#4, 1#8G, 1 1/4"C
90 AMP	2#3, 1#8G, 1"C	2#3, 1#8G, 1#8IG, 1"C	2#3, 1#8G, 1"C	3#3, 1#8G, 1"C	4#3, 1#8G, 1 1/4"C
100 AMP	2#3, 1#8G, 1"C	2#3, 1#8G, 1#8IG, 1"C	2#3, 1#8G, 1"C	3#3, 1#8G, 1"C	4#3, 1#8G, 1 1/4"C
NOTES: A. CONDUIT SIZES ARE BASED ON 75°C, COPPER CONDUCTORS, AND EMT. CONTRACTOR SHALL PROVIDE LARGER CONDUITS AS REQUIRED. B. CONDUCTOR AND CONDUIT SIZES LISTED ARE THE MINIMUM REQUIRED FOR THE ASSOCIATED OVERCURRENT DEVICE SHOWN, CONTRACTOR MAY UPSIZE CONDUCTORS AND/OR CONDUIT. C. ADJUST CONDUCTOR AND CONDUIT SIZES AS REQUIRED PER NEC IN ACCORDANCE WITH NFPA AND ENERGY CODES TO LIMIT VOLTAGE DROP.					



1 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"



1 THIRD FLOOR LIGHTING PLAN
1/8" = 1'-0"

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Folds of Honor Operations
Building

5917 Patriot Drive, Owasso, OK 74055

GH2 PROJECT NUMBER:
20170021

ISSUE DATE:

ISSUE:

OTHER ISSUE DATES:

NO.	DESCRIPTION	DATE
1	PERMIT SET	06/19/2020
2	PROGRESS SET	07/14/2020
3	PROGRESS SET	08/04/2020

SHEET NAME:

**THIRD FLOOR
LIGHTING PLAN**

SHEET NUMBER:

E-103

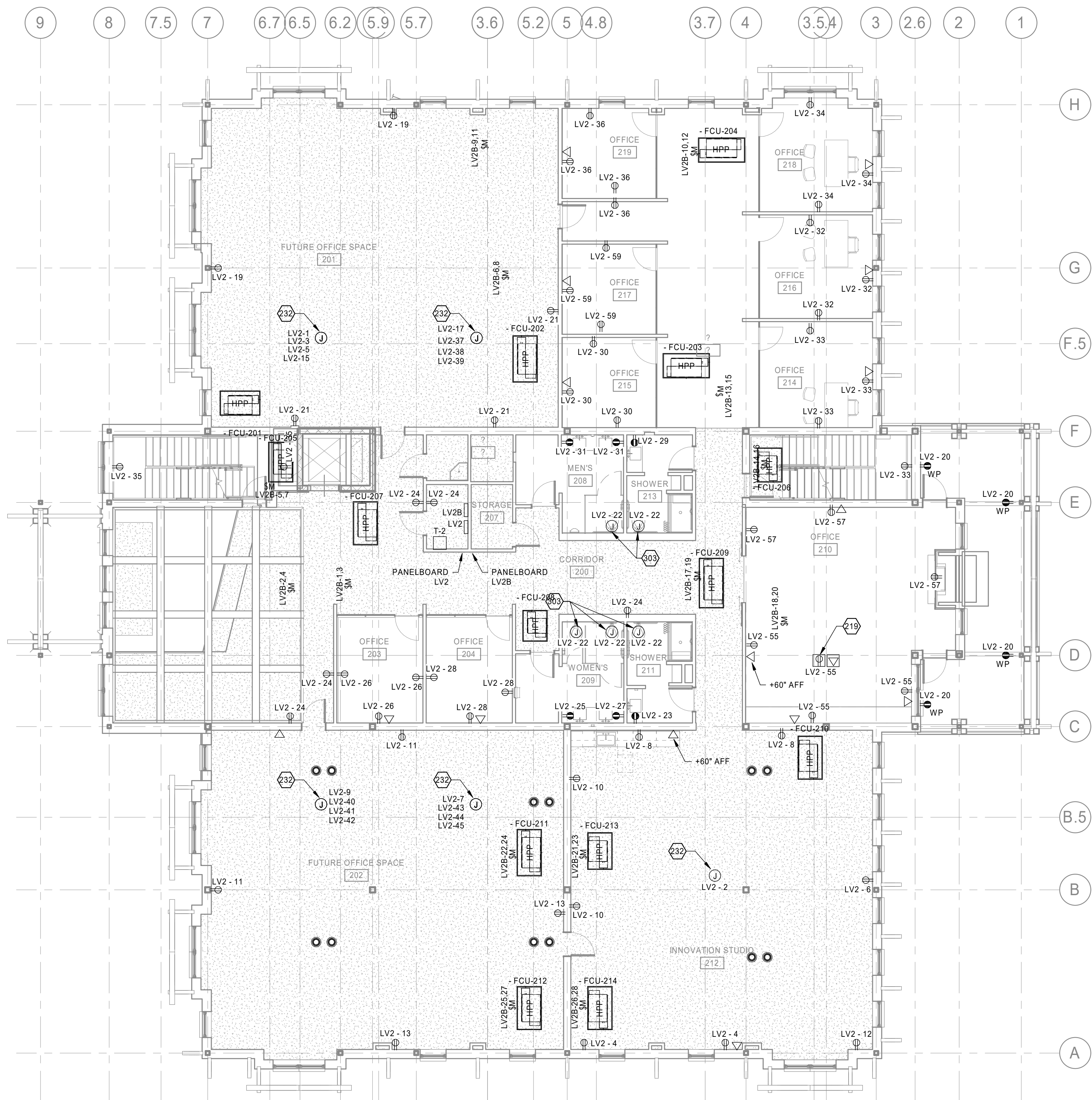
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KEYNOTES	
KEY	NOTE
219	PROVIDE FIRE RATED POKE THROUGH WITH DUPLEX RECEPTACLE AND DATA CUBICLE. PROVIDE 3/4" CONDUIT FOR DATA FROM THE POKE THROUGH TO ACCESSIBLE CEILING SPACE ON THE FLOOR BELOW.
232	PROVIDE POWER CONNECTION FOR FUTURE SYSTEMS FURNITURE. INSTALL JUNCTION BOX AT CEILING WITH CIRCUITS PULLED. LABEL JUNCTION BOX "SYSTEM FURNITURE POWER".
303	JUNCTION BOX WITH 120V CIRCUIT LOCATED ABOVE CEILING FOR ELECTRICAL SERVICE TO PLUMBING CONTRACTOR FURNISHED. ELECTRICAL CONTRACTOR INSTALLED TRANSFORMERS/POWER SUPPLIES FOR HARDWIRED PLUMBING FIXTURE SENSORS. ELECTRICAL CONTRACTOR TO PROVIDE LOW-VOLTAGE CONDUCTORS FROM TRANSFORMERS/POWER SUPPLIES TO SENSORS. PROVIDE WALL MOUNTED JUNCTION BOXES FOR WALL MOUNTED SENSORS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT SUPPLIER. REFER TO PLUMBING DRAWINGS FOR QUANTITIES, LOCATIONS, AND ADDITIONAL INFORMATION.



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5917 Patriot Drive, Owasso, OK 74055

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20170021
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06/14/20
ISSUE:

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PERMIT SET	06/19/2020	
PROGRESS SET	07/14/2020	
PROGRESS SET	08/04/2020	

SHEET NAME:
**SECOND FLOOR
POWER PLAN**

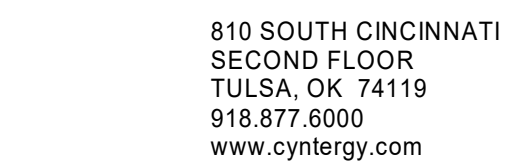
SHEET NUMBER:
E-202

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1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"

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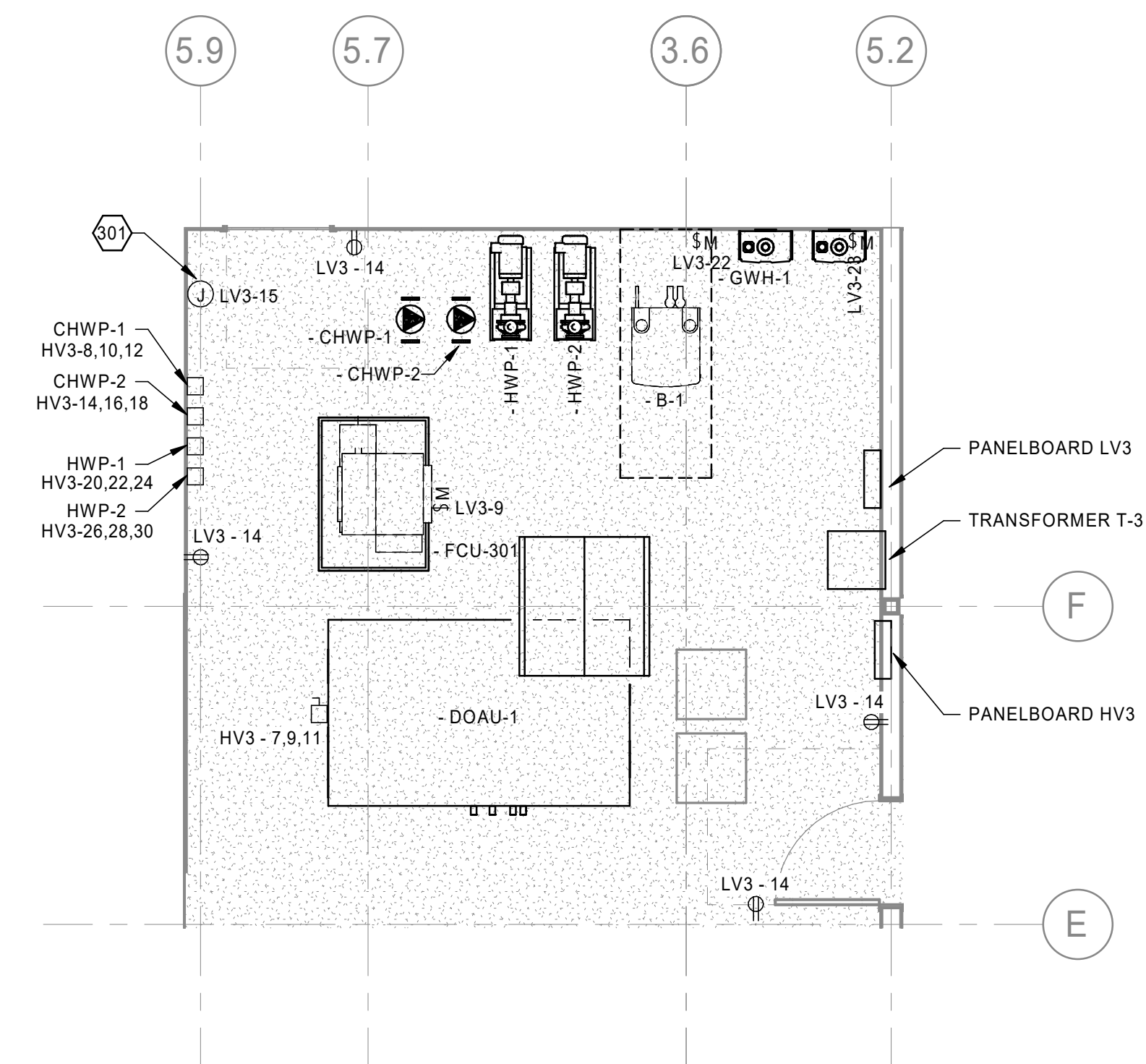
OTHER ISSUE DATES:	
NO.	DESCRIPTION
	PERMIT SET
	PROGRESS SET
	PROGRESS SET

SHEET NUMBER:

SHEET NUMBER:
F 005

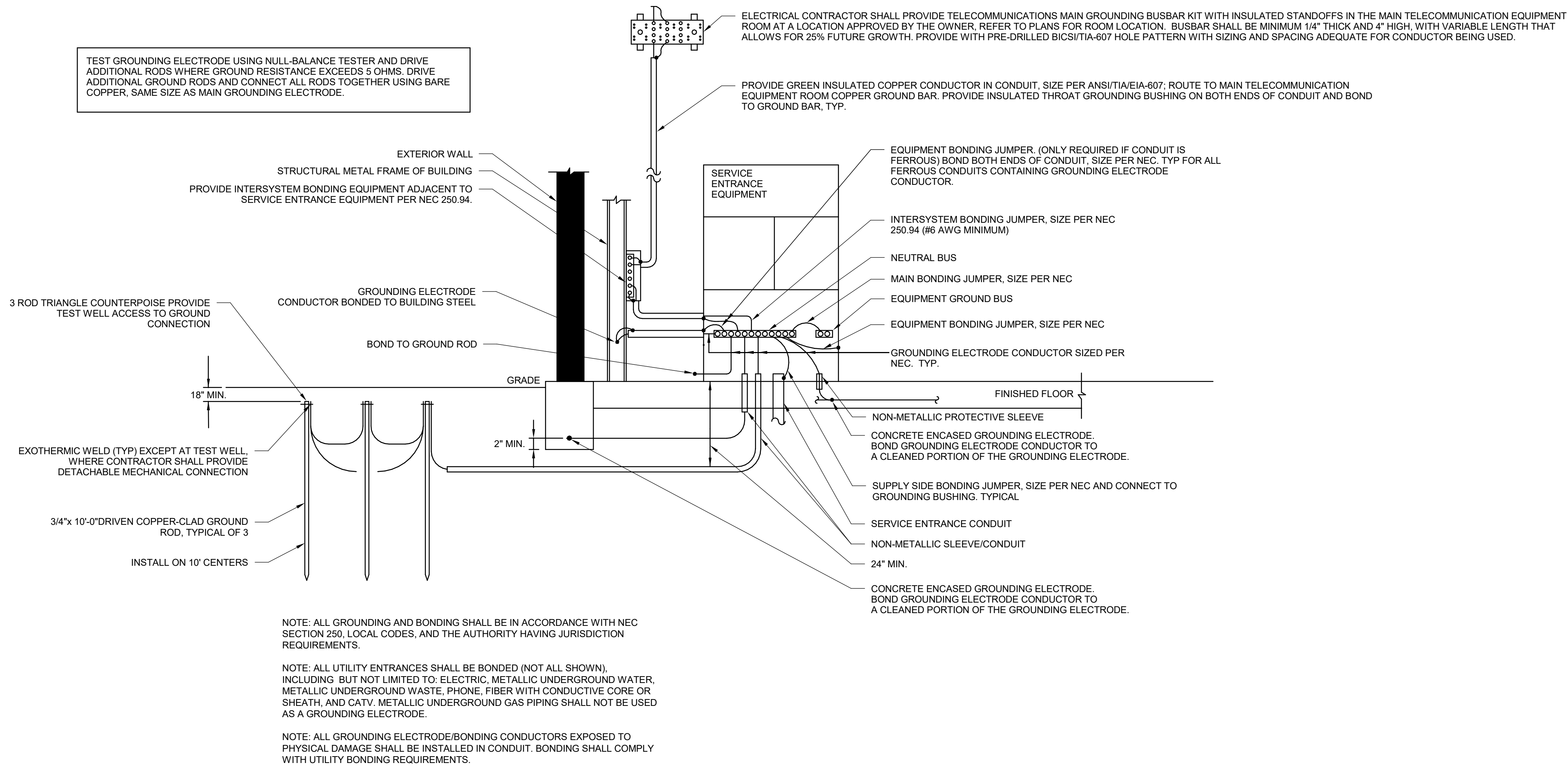
E-20.

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2 ENLARGED MECHANICAL ROOM
1/4" = 1'-0"

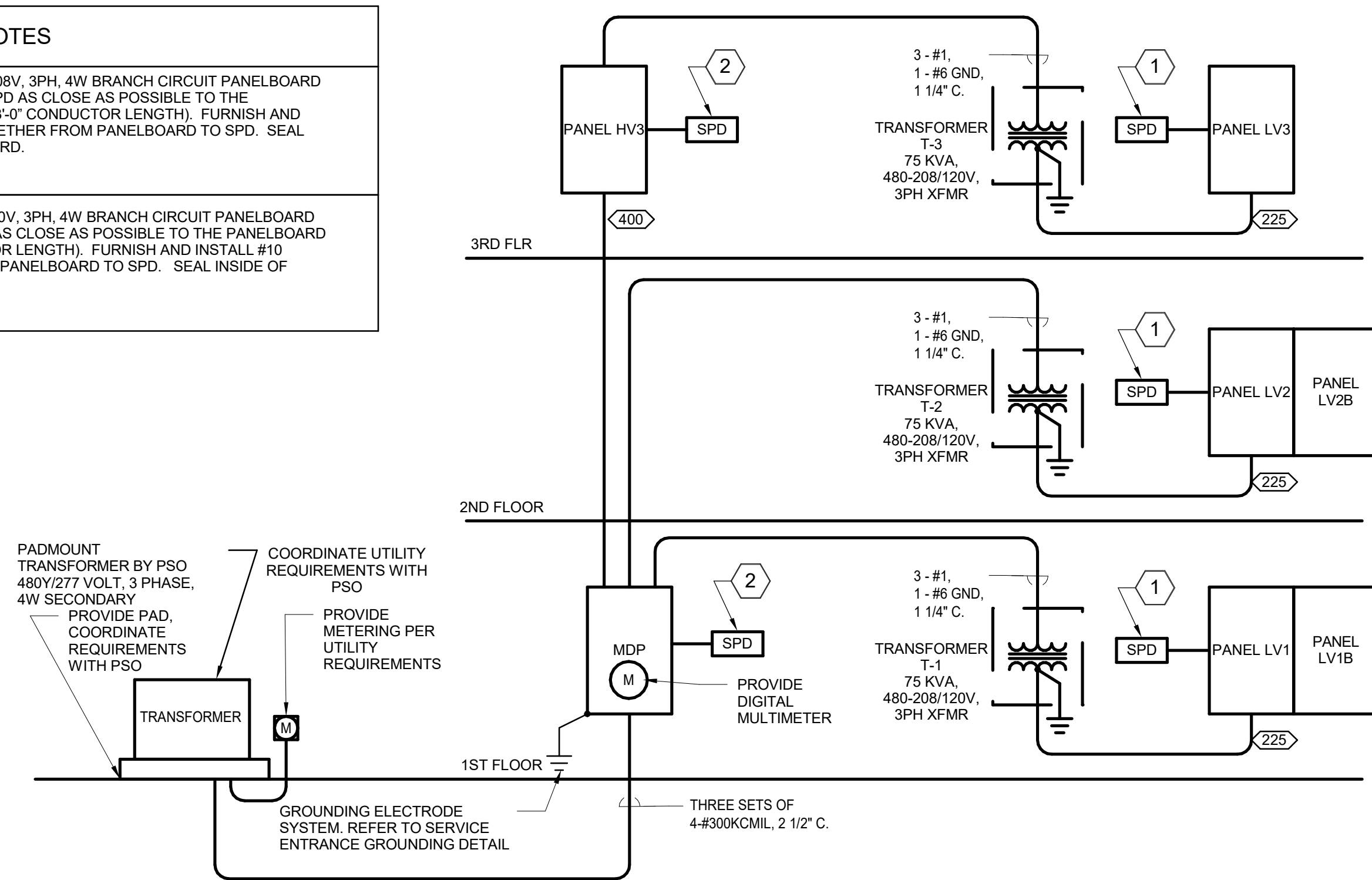
1 THIRD FLOOR POWER PLAN



2 SERVICE ENTRANCE GROUNDING AND BONDING

NOT TO SCALE

KEYNOTES	
1	SURGE PROTECTION DEVICE (SPD) FOR 208V, 3PH, 4W BRANCH CIRCUIT PANELBOARD SHALL BE LEVITON 42120-DY3. INSTALL SPD AS CLOSE AS POSSIBLE TO THE PANELBOARD FEEDER ENTRY (MAXIMUM 3'-0" CONDUIT LENGTH). FURNISH AND INSTALL #10 CONDUCTORS TWISTED TOGETHER FROM PANELBOARD TO SPD. SEAL INSIDE OF CONDUIT ENTERING PANELBOARD.
2	SURGE PROTECTION DEVICE (SPD) FOR 480V, 3PH, 4W BRANCH CIRCUIT PANELBOARD SHALL BE LEVITON 37277-7. INSTALL SPD AS CLOSE AS POSSIBLE TO THE PANELBOARD FEEDER ENTRY (MAXIMUM 3'-0" CONDUIT LENGTH). FURNISH AND INSTALL #10 CONDUCTORS TWISTED TOGETHER FROM PANELBOARD TO SPD. SEAL INSIDE OF CONDUIT ENTERING PANELBOARD.



1 ONE-LINE DIAGRAM

NOT TO SCALE

BRANCH CIRCUIT AND FEEDER SIZE					
NOTE: BASED ON COPPER 75° THWN AND EMT OR RIGID PVC (SCHEDULE 40)					
3 PHASE, 4 WIRE					
480, 240 AND 208 VOLT					
ITEM #	CIRCUIT BREAKER	4 #	1 # GROUND	EMT CONDUIT	RIGID PVC CONDUIT
20	20	12	12	1/2	1/2
25	25	10	10	1/2	1/2
30	30	10	10	1/2	1/2
40	40	8	10	3/4	3/4
45	45	8	10	3/4	3/4
50	50	8	10	3/4	3/4
60	60	6	10	1	1
70	70	4	8	1 1/4	1 1/4
80	80	4	8	1 1/4	1 1/4
90	90	3	8	1 1/4	1 1/4
100	100	3	8	1 1/4	1 1/4
110	110	2	6	1 1/4	1 1/4
125	125	1	6	1 1/2	1 1/2
150	150	1/0	6	1 1/2	1 1/2
175	175	2/0	6	2	2
200	200	3/0	6	2	2
225	225	4/0	4	2 1/2	2 1/2
250	250	250KCMIL	4	2 1/2	2 1/2
300	300	350KCMIL	4	2 1/2	3
350	350	400KCMIL	3	3	3
400	400	500KCMIL	3	3	3 1/2

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20170021
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ISSUE:

OTHER ISSUE DATES:
NO. DESCRIPTION DATE
PERMIT SET 06/19/2020
PROGRESS SET 07/14/2020
PROGRESS SET 08/04/2020

SHEET NAME:
PANEL
SCHEDULES

SHEET NUMBER:
E-601

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MDP (NEW) PANELBOARD SCHEDULE													
SUPPLY FROM REFER TO ONE-LINE DIAGRAM				A.I.C. RATING: 35,000				MAIN TYPE: MLO					
MOUNTING: SURFACE				VOLTAGE: 277/480V				PHASE: 3					
ENCLOSURE: TYPE 1				WIRE: 4				MAIN RATING: 600 A					
CKT	DESCRIPTION	CB TRIP RATING	POLES	A		B		C		POLES	CB TRIP RATING	DESCRIPTION	CKT
1	HV-3 3RD FLOOR	400 A	3	50666 VA	30384 VA	48971 VA	31400 VA			3	250 A	LV-1 VIA XFMR T-1	2
3	--	--	--							--	--	--	4
5	--	--	--					49327 VA	30956 VA	--	--	--	6
7	LTG - FIRST FLOOR	20 A	1	3139 VA	26532 VA					3	250 A	LV-2 VIA XFMR T-2	8
9	LTG - FIRST FLOOR	20 A	1			1942 VA	25252 VA			--	--	--	10
11	LTG - SECOND FLOOR	20 A	1					2431 VA	19356 VA	--	--	--	12
13	LTG - SECOND FLOOR	20 A	1	2022 VA	5533 VA					3	30 A	ELEVATOR EQ PANEL	14
15							5533 VA			--	--	--	16
17									5533 VA	--	--	--	18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
CONNECTED VA LOAD PER PHASE:				118159 VA		113090 VA		107603 VA					
CONNECTED AMPERE LOAD PER PHASE:				430 A		411 A		388 A					
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS					
LIGHTING LOAD		6641 VA		125.00%		8302 VA							
MOTOR LOAD		206778 VA		100.00%		206778 VA		TOTAL CONNECTED VA: 338848 VA					
NONCONTINUOUS LOAD		71300 VA		100.00%		71300 VA		TOTAL DEMAND VA LOAD: 320760 VA					
RECEPTACLE LOAD		49400 VA		60.12%		29700 VA		TOTAL CONNECTED AMPERES: 408 A					
Lighting		4926 VA		100.00%		4926 VA		TOTAL DEMAND AMPERES: 386 A					
NOTES:													



LV1 (NEW) PANELBOARD SCHEDULE													
SUPPLY FROM REFER TO ONE-LINE DIAGRAM						A.I.C. RATING: 10,000			MAIN TYPE: MCB				
MOUNTING: SURFACE						VOLTAGE: 208/120V			MAIN RATING: 250 A				
ENCLOSURE: TYPE 1						PHASE: 3							
						WIRE: 4							
CKT	DESCRIPTION	CB TRIP RATING	POLES	A		B		C	POLES	CB TRIP RATING	DESCRIPTION	CKT	
1	REC - VENDING MACHINE	20 A	1	1920 VA	1920 VA				1	20 A	WORK STATION 104	2	
3	REC - VENDING MACHINE	20 A	1			1920 VA	1920 VA		1	20 A	WORK STATION 104	4	
5	REC - VENDING MACHINE	20 A	1					1920 VA	1920 VA	1	20 A	WORK STATION 104	6
7	REC - BREAK ROOM	20 A	1	360 VA	1920 VA				1	20 A	WORK STATION 104	8	
9	REC - BREAK ROOM	20 A	1			540 VA	1920 VA		1	20 A	WORK STATION 104	10	
11	REC - VENDING MACHINE	20 A	1					1920 VA	1920 VA	1	20 A	WORK STATION 104	12
13	REC - EXTERIOR	20 A	1	360 VA	1920 VA				1	20 A	WORK STATION 104	14	
15	REC - EXTERIOR	20 A	1			360 VA	1920 VA		1	20 A	WORK STATION 104	16	
17	REC - EXTERIOR	20 A	1					360 VA	180 VA	1	20 A	REC - STORE CASH REG.	18
19	REC - VENDING MACHINE (1)	20 A	1	1920 VA	900 VA				1	20 A	REC - WORK ROOM	20	
21	REC - VENDING MACHINE (1)	20 A	1			1920 VA	360 VA		1	20 A	REC - STORE	22	
23	REC - LOBBY	20 A	1					360 VA	900 VA	1	20 A	REC - OFFICE 104	24
25	REC - LOBBY	20 A	1	180 VA	360 VA				1	20 A	REC - EXTERIOR	26	
27	REC - LOBBY	20 A	1			720 VA	900 VA		1	20 A	REC - STORE	28	
29	WORK STATION	20 A	1					1920 VA	180 VA	1	20 A	REC - WOMEN'S RESTROOM	30
31	WORK STATION	20 A	1	1920 VA	180 VA				1	20 A	REC - WOMEN'S RESTROOM	32	
33	WORK STATION	20 A	1			1920 VA	540 VA		1	20 A	REC - MEN'S RESTROOM & JANITOR	34	
35	WORK STATION	20 A	1					1920 VA	540 VA	1	20 A	REC - CONFERENCE	36
37	WORK STATION	20 A	1	1920 VA	360 VA				1	20 A	REC - CONF. FLOOR BOXES	38	
39	WORK STATION	20 A	1			1920 VA	180 VA		1	20 A	REC - CONF TV	40	
41	WORK STATION	20 A	1					1920 VA	1920 VA	1	20 A	WORK STATION	42
43				720 VA					1	20 A	REC - OPEN OFFICE	44	
45												46	
47												48	
49												50	
51												52	
53												54	
55				13524 VA					3	150 A	LV1B	56	
57						14360 VA			--	--	--	58	
59								13076 VA	--	--	--	60	
CONNECTED VA LOAD PER PHASE:				30384 VA		31400 VA		30956 VA					
CONNECTED AMPERE LOAD PER PHASE:				253 A		262 A		259 A					
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS					
MOTOR LOAD		25940 VA		100.00%		25940 VA		TOTAL CONNECTED VA: 92740 VA TOTAL DEMAND VA LOAD: 82580 VA TOTAL CONNECTED AMPERES: 257 A TOTAL DEMAND AMPERES: 229 A					
NONCONTINUOUS LOAD		36480 VA		100.00%		36480 VA							
RECEPTACLE LOAD		30320 VA		66.49%		20160 VA							
NOTES:													
1). GFCI BREAKER													
PROVIDE WITH FEED THROUGH LUGS													

HV3 (NEW) PANELBOARD SCHEDULE													
SUPPLY FROM REFER TO ONE-LINE DIAGRAM				A.I.C. RATING: 14,000				MAIN TYPE: MLO					
MOUNTING: SURFACE				VOLTAGE: 277/480V				PHASE: 3					
ENCLOSURE: TYPE 1				WIRE: 4				MAIN RATING: 400 A					
CKT	DESCRIPTION	CB TRIP RATING	POLES	A		B		C		POLES	CB TRIP RATING	DESCRIPTION	CKT
1	OCC-1	125 A	3	24358 VA	11902 VA					3	60 A	RTU-1	2
3	--	--	--			24358 VA	11902 VA			--	--	--	4
5	--	--	--					24358 VA	11902 VA	--	--	--	6
7	DOAU-1	15 A	3	2214 VA	2103 VA					3	15 A	CHWP-1	8
9	--	--	--			2214 VA	2103 VA			--	--	--	10
11	--	--	--					2214 VA	2103 VA	--	--	--	12
13	LV-3 VIA XFMR T-3	125 A	3	4440 VA	2103 VA					3	15 A	CHWP-2	14
15	--	--	--			4104 VA	2103 VA			--	--	--	16
17	--	--	--					4764 VA	2103 VA	--	--	--	18
19	LTG - THIRD FLOOR	20 A	1	1722 VA	941 VA					3	15 A	HWP-1	20
21	LTG - THIRD FLOOR PATIO	20 A	1			306 VA	941 VA			--	--	--	22
23								941 VA		--	--	--	24
25					941 VA					3	15 A	HWP-2	26
27							941 VA			--	--	--	28
29								941 VA		--	--	--	30
31												--	32
33													34
35													36
37													38
39													40
41													42
CONNECTED VA LOAD PER PHASE:				50666 VA		48971 VA		49327 VA					
CONNECTED AMPERE LOAD PER PHASE:				183 A		177 A		178 A					
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS					
LIGHTING LOAD		2026 VA		125.00%		2533 VA							
MOTOR LOAD		138798 VA		100.00%		138798 VA		TOTAL CONNECTED VA: 148963 VA					
NONCONTINUOUS LOAD		1180 VA		100.00%		1180 VA		TOTAL DEMAND VA LOAD: 149455 VA					
RECEPTACLE LOAD		7020 VA		100.00%		7020 VA		TOTAL CONNECTED AMPERES: 179 A					
								TOTAL DEMAND AMPERES: 180 A					
NOTES:													

LV1B (NEW) PANELBOARD SCHEDULE													
SUPPLY FROM REFER TO ONE-LINE DIAGRAM				VOLTAGE: 208/120V				A.I.C. RATING: 10,000					
MOUNTING: SURFACE				PHASE: 3				MAIN TYPE: MLO					
ENCLOSURE: TYPE 1				WIRE: 4				MAIN RATING: 225 A					
CKT	DESCRIPTION	CB TRIP RATING	POLES	A		B		C		POLES	CB TRIP RATING	DESCRIPTION	CKT
1				1920 VA						1	20 A	WORK STATION	2
3	REC - OFFICE 116	20 A	1			720 VA	1920 VA			1	20 A	WORK STATION	4
5	REC - OFFICE 117	20 A	1					540 VA	1920 VA	1	20 A	WORK STATION	6
7	REC - OFFICE 118	20 A	1	900 VA									8
9	REC - WORK STATION UTILITY	20 A	1			540 VA							10
11	ELEVATOR CONTROLLER	20 A	1					860 VA					12
13	REC - ELEC ROOM, DATA	20 A	1	360 VA	720 VA					1	20 A	REC - OFFICE 109, HALL	14
15	REC - DATA	20 A	1			1680 VA	360 VA			1	20 A	REC - FIRE RISER	16
17	REC - DATA	20 A	1					1500 VA	720 VA	1	20 A	REC - OFFICE 107	18
19	FCU-108, 110	20 A	2	1728 VA	360 VA					1	20 A	REC - HALLWAY	20
21		--	--			1728 VA	500 VA			1	20 A	EWG (1)	22
23	FCU-112	20 A	2					1176 VA	1176 VA	2	20 A	FCU-109	24
25	--	--	--	1176 VA	1176 VA					--	--	--	26
27						1728 VA				2	20 A	FCU-104, 113	28
29								1728 VA		--	--	--	30
31				1728 VA						2	20 A	FCU-111, 107	32
33						1728 VA				--	--	--	34
35								1728 VA		2	20 A	FCU-105, 106	36
37				1728 VA						--	--	--	38
39						1728 VA				2	20 A	FCU-102A, 102B	40
41								1728 VA		--	--	--	42
43				1728 VA						2	20 A	FCU-101, 103	44
45						1728 VA				--	--	--	46
47													48
49													50
51													52
53													54
CONNECTED VA LOAD PER PHASE:				13524 VA		14360 VA		13076 VA					
CONNECTED AMPERE LOAD PER PHASE:				113 A		120 A		109 A					
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS					
MOTOR LOAD		25940 VA		100.00%		25940 VA							
NONCONTINUOUS LOAD		5760 VA		100.00%		5760 VA		TOTAL CONNECTED VA: 40960 VA					
RECEPTACLE LOAD		9260 VA		100.00%		9260 VA		TOTAL DEMAND VA LOAD: 40960 VA					
								TOTAL CONNECTED AMPERES: 114 A					
								TOTAL DEMAND AMPERES: 114 A					
NOTES:													
1). GFCI BREAKER													

LV2 (NEW) PANELBOARD SCHEDULE																			
SUPPLY FROM REFER TO ONE-LINE DIAGRAM										VOLTAGE: 208/120V									
MOUNTING: SURFACE										PHASE: 3									
ENCLOSURE: TYPE 1										WIRE: 4									
A.I.C. RATING: 10,000										MAIN TYPE: MCB									
MAIN RATING: 225 A																			
CKT	DESCRIPTION	CB TRIP RATING	POLES	A		B		C		POLES	CB TRIP RATING	DESCRIPTION	CKT						
1	FUTURE OFFICE SPACE	20 A	1	1920 VA	1920 VA					1	20 A	INOVATION STUDIO	2						
3	FUTURE OFFICE SPACE	20 A	1			1920 VA	360 VA			1	20 A	REC - INNOVATION STUDIO	4						
5	FUTURE OFFICE SPACE	20 A	1					1920 VA	180 VA	1	20 A	REC - INNOVATION STUDIO	6						
7	FUTURE OFFICE SPACE	20 A	1	1920 VA	360 VA					1	20 A	REC - INNOVATION STUDIO	8						
9	FUTURE OFFICE SPACE	20 A	1			1920 VA	360 VA			1	20 A	REC - INNOVATION STUDIO	10						
11	REC - FUTURE SPACE	20 A	1					360 VA	180 VA	1	20 A	REC - INNOVATION STUDIO	12						
13	REC - FUTURE SPACE	20 A	1	360 VA									14						
15	FUTURE OFFICE SPACE	20 A	1			1920 VA							16						
17	FUTURE OFFICE SPACE	20 A	1					1920 VA					18						
19	REC - FUTURE SPACE	20 A	1	360 VA	720 VA					1	20 A	REC - OFFICE 211 EXTERIOR	20						
21	REC - FUTURE SPACE	20 A	1			540 VA	1000 VA			1	20 A	AUTO FLUSH VALVES	22						
23	REC - WOMEN'S SHOWER	20 A	1					180 VA	900 VA	1	20 A	REC - LOBBY, HALL, STORAGE	24						
25	REC - WOMEN'S RESTROOM	20 A	1	180 VA	540 VA					1	20 A	REC - OFFICE 203	26						
27	REC - WOMEN'S RESTROOM	20 A	1			180 VA	540 VA			1	20 A	REC - OFFICE 204	28						
29	REC - MEN'S SHOWER	20 A	1					180 VA	540 VA	1	20 A	REC - OFFICE 214	30						
31	REC - MEN'S RESTROOM	20 A	1	360 VA	540 VA					1	20 A	REC - OFFICE 215	32						
33	REC - OFFICE 213 & STAIRS	20 A	1			720 VA	540 VA			1	20 A	REC - OFFICE 217	34						
35	REC - STAIR	20 A	1					360 VA	720 VA	1	20 A	REC - OFFICE 218	36						
37	FUTURE OFFICE SPACE	20 A	1	1920 VA	1920 VA					1	20 A	FUTURE OFFICE SPACE	38						
39	FUTURE OFFICE SPACE	20 A	1			1920 VA	1920 VA			1	20 A	FUTURE OFFICE SPACE	40						
41	FUTURE OFFICE SPACE	20 A	1					1920 VA	1920 VA	1	20 A	FUTURE OFFICE SPACE	42						
43	FUTURE OFFICE SPACE	20 A	1	1920 VA	1920 VA					1	20 A	FUTURE OFFICE SPACE	44						
45	FUTURE OFFICE SPACE	20 A	1			1920 VA	0 VA			1	20 A	SPARE	46						
47								0 VA		1	20 A	SPARE	48						
49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	50						
51							0 VA			1	20 A	SPARE	52						
53								0 VA		1	20 A	SPARE	54						
55	REC - OFFICE 211	20 A	1	720 VA									56						
57	REC - OFFICE 211	20 A	1		540 VA								58						
59	REC - OFFICE 216	20 A	1			540 VA							60						
CONNECTED VA LOAD PER PHASE:				17580 VA		16300 VA		11820 VA											
CONNECTED AMPERE LOAD PER PHASE:				152 A		142 A		99 A											
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS											
NONCONTINUOUS LOAD		33640 VA		100.00%		33640 VA													
RECEPTACLE LOAD		12060 VA		91.46%		11030 VA													
								TOTAL CONNECTED VA: 45700 VA											
								TOTAL DEMAND VA LOAD: 44670 VA											
								TOTAL CONNECTED AMPERES: 127 A											
								TOTAL DEMAND AMPERES: 124 A											
NOTES:																			
PROVIDE WITH FEED THROUGH LUGS																			

LV3 (NEW) PANELBOARD SCHEDULE																			
SUPPLY FROM REFER TO ONE-LINE DIAGRAM										A.I.C. RATING: 10,000									
MOUNTING: SURFACE										MAIN TYPE: MCB									
ENCLOSURE: TYPE 1										MAIN RATING: 225 A									
VOLTAGE: 208/120V																			
PHASE: 3																			
WIRE: 4																			
CKT	DESCRIPTION	CB TRIP RATING	POLES	A		B		C		POLES	CB TRIP RATING	DESCRIPTION	CKT						
1	REC - LOUNGE AND STAIRS	20 A	1	720 VA	360 VA					1	20 A	REC - BAR	2						
3	REC - PATIO	20 A	1			540 VA	360 VA			1	20 A	REC - BAR	4						
5	REC - BELOW CEILING	20 A	1					360 VA	360 VA	1	20 A	REC - BAR	6						
7	EF-1,2	20 A	1	200 VA	360 VA					1	20 A	REC - BAR	8						
9	FCU-301	20 A	1			1728 VA	180 VA			1	20 A	REC - KEGER	10						
11	REC - PATIO UNDER SOFFIT	20 A	1					360 VA	360 VA	1	20 A	REC - BAR	12						
13	REC - BELOW CEILING	20 A	1	360 VA	720 VA					1	20 A	REC - MECH ROOM	14						
15	HVAC CONTROL POWER	20 A	1			180 VA	360 VA			1	20 A	REC - MAINT. RECEPTS	16						
17	REC - TOILET 303 & 304	20 A	1					360 VA	1392 VA	1	20 A	2 PUMPS	18						
19	REC - BAR STORAGE, CLOSET, STAIRS	20 A	1	720 VA	1000 VA					1	20 A	HEAT TRACE (2)	20						
21	REC - LOUNGE	20 A	1			540 VA	216 VA			1	20 A	HOT WATER BOILER	22						
23	GWH-1	20 A	1					180 VA	1392 VA	1	20 A	2 PUMPS	24						
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26						
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28						
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30						
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32						
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34						
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36						
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38						
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40						
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42						
CONNECTED VA LOAD PER PHASE:				4440 VA		4104 VA		4764 VA											
CONNECTED AMPERE LOAD PER PHASE:				37 A		34 A		40 A											
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS											
MOTOR LOAD		5108 VA		100.00%		5108 VA													
NONCONTINUOUS LOAD		1180 VA		100.00%		1180 VA		TOTAL CONNECTED VA: 13308 VA											
RECEPTACLE LOAD		7020 VA		100.00%		7020 VA		TOTAL DEMAND VA LOAD: 13308 VA											
								TOTAL CONNECTED AMPERES: 37 A											
								TOTAL DEMAND AMPERES: 37 A											
NOTES:																			
1) GFCI BREAKER																			
2) GFEP BREAKER																			
PROVIDE WITH FEED THROUGH LUGS																			

OCCUPANCY SENSOR SCHEDULE		
SYMBOLS	DESCRIPTION	MODEL NUMBER
	CEILING MOUNTED, 360 DEGREE, DUAL TECHNOLOGY OCCUPANCY SENSOR (2000SF). LOWER CASE LETTER DENOTES SWITCH DESIGNATION, EXAMPLE "a".	GREENGATE: OAC-DT-2000 SERIES (OR EQUAL BY LUTRON, LEVITON, OR SENSOR SWITCH)
	WALL BOX DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH. LOWER CASE LETTER DENOTES SWITCH DESIGNATION, EXAMPLE "a". "3" DENOTES 3-WAY CONFIGURATION.	GREENGATE: ONW-D-1001 SERIES (OR EQUAL BY LUTRON, LEVITON, OR SENSOR SWITCH)
COMMENTS		
TIME DELAY SHALL BE SET AT 30 MINUTES. SENSITIVITY SHALL BE AT MAXIMUM SETTINGS. CONNECT TO LIGHT FIXTURES INSIDE ROOM/AREA AS INDICATED BY SWITCH DESIGNATION SHOWN AT OCCUPANCY SENSOR AND/OR WHERE SENSOR IS PLACED. MULTIPLE OCCUPANCY SENSORS MAY CONTROL ROOM/AREA. CONNECT PER MANUFACTURERS WIRING INSTRUCTIONS.		
WALL BOX OCCUPANCY SENSOR SHALL BE SET TO 'MANUAL' FOR VACANCY SENSOR OPERATION (MANUAL ON/OFF WITH ADDITIONAL OCCUPANCY SENSING OFF CONTROL).		
LOCATIONS OF DEVICES SHOWN ON DRAWINGS ARE BASED ON COVERAGE AREAS OF MANUFACTURER AND MODEL NUMBER SHOWN IN OCCUPANCY SENSOR SCHEDULE. IF OTHER APPROVED MANUFACTURER'S DEVICES ARE USED, THE CONTRACTOR AND MANUFACTURER SHALL CONFIRM THAT THE COVERAGE AREA IS EQUAL TO OR LARGER THAN THE SPECIFIED. CONTRACTOR OR MANUFACTURER SHALL COMMISSION (AIM, ADJUST, ETC.) THE OCCUPANCY SENSORS AFTER INSTALLATION FOR MAXIMUM PERFORMANCE.		
DO NOT EXCEED LOAD LIMITATIONS (IN PARTICULAR WALL BOX DEVICES) OF LIGHTING CONTROL DEVICES. IF DEVICE LOAD LIMITATIONS ARE EXCEEDED, THEN PROVIDE A RELAY AND OR CONTACTOR SYSTEM (NOT SHOWN) CONTROLLED BY THE LIGHTING CONTROL DEVICE.		
PROVIDE DUAL CONTACTS WHERE REQUIRED FOR CONTROL OF HVAC SYSTEMS.		

LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER OR ENGINEER APPROVED EQUAL	MOUNTING	LAMP TYPE	LOAD	COMMENTS
A	2x2 RECESSED LED	COOPER	22CZ2-39-UNV-L840	RECESSED	LED, 4000K	35 VA	
B	6" RECESSED DOWNLIGHT	HALO	DL-HC6-20-DO10-HM6-12-840-61-MD-H	RECESSED	LED, 4000K	22 VA	
B2	6" RECESSED DOWNLIGHT	EATON	HC620D010-HM612840-61MDH	RECESSED	LED, 4000K	22 VA	
B3	6" RECESSED DOWNLIGHT	COOPER	LD6B15D010-EU6B10208040-6LB1LI	RECESSED	LED, 4000K	16 VA	
C	DECORATIVE PENDANT	COOPER	S122DIP-C-675D-330U-840-C10-JB-4F-1-U-DD-F 1-W	PENDANT	LED, 4000K	183 VA	
D4	4' LED PENDANT	COOPER	SQ4-F-050U-050D-840-1-D-UNV-STD-W-AC48-U M-4	PENDANT	LED, 4000K	32 VA	
D6	6' LED PENDANT	COOPER	SQ4-F-050U-050D-840-1-D-UNV-STD-W-AC48-U M-6	PENDANT	LED, 4000K	48 VA	
D8	8' LED PENDANT	COOPER	SQ4-F-050U-050D-840-1-D-UNV-STD-W-AC48-U M-8	PENDANT	LED, 4000K	64 VA	
E	LED EXIT SIGN	EATON	APX7R	UNIVERSAL	LED	2 VA	FACES AND ARROWS AS SHOWN ON DRAWINGS.
EM	EMERGENCY EGRESS LIGHT	EATON	APELH2	SURFACE	LED	8 VA	
F	4' LED STRIP LIGHT	METALUX	4SLSTP4040D-UNV	SURFACE	LED, 4000K	44 VA	
G1	25' LED POLE LIGHT	VISIONAIRE LIGHTING	PRV-PA2B-740-U-T4W		LED, 4000K	177 VA	25' SQUARE STRAIGHT POLE
G2	25' LED POLE LIGHT WITH 2 FIXTURES	VISIONAIRE LIGHTING	(2) PRV-PA2B-740-U-5WQ	POLE	LED, 4000K	177 VA	25' SQUARE STRAIGHT POLE
J	EXTERIOR WALL MOUNTED LED FIXTURE	VISIONAIRE LIGHTING	VMS-1-T3-48LC-3-4K-UNV-WM-BZ		LED, 4000K	52 VA	MOUNT FIXTURE 10" AFF, UNO
L	PEDESTRIAN WALL LIGHTING	COOPER	XTOR1B-W		LED, 4000K	12 VA	
N	LED BOLLARD	LUSSO	LSO-B-S41-T3-20LC-3-4K-UNV-AB-BZ	BOLLARD	LED, 4000K	22 VA	
Q	DECORATIVE CHANDELIER	TBD	TBD	PENDANT		100 VA	
S	EXTERIOR SCONCE	COOPER	HCC4W15D010MB-HM412840-41MDC		LED, 4000K	15 VA	MOUNT FIXTURE 70" AFF, UNO
T	ADJUSTABLE RECESSED DOWNLIGHT	EATON	MRZ-1-REC-FLN-4-L40-80-WFL-UNV-W-STD	RECESSED	LED, 4000K	16 VA	FIX FIXTURE AT A 45DEG ANGLE UPON INSTALLATION
FIXTURE SCHEDULE NOTES							
NOTES: - PRIOR APPROVAL REQUESTS FOR EQUALS: ALL PRIOR APPROVAL REQUESTS SHALL BE SUBMITTED FOR ENGINEER REVIEW PRIOR TO BID IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. UNLESS NOTED OTHERWISE, PRIOR APPROVAL REQUESTS SHALL BE SUBMITTED TEN DAYS PRIOR TO BID. REFER TO GENERAL NOTES AND OR SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. - ALL FIXTURES SHALL HAVE A MINIMUM WARRANTY OF FIVE YEARS. - CORRELATED COLOR TEMPERATURE SHALL BE LESS THAN OR EQUAL TO ONE MACADAM ELLIPSE FOR COVE LIGHTING AND LESS THAN OR EQUAL TO THREE MACADAMS ELLIPSES FOR ALL OTHER LIGHTING. - FIXTURES (INCLUDING LED'S AND DRIVERS) SHALL HAVE A MINIMUM 50,000HR LIFE AT A LUMEN MAINTENANCE OF GREATER THAN OR EQUAL TO 70% FOR THE INSTALLED APPLICATION AND TEMPERATURE FOR THIS PROJECT. - UNLESS OTHERWISE APPROVED, FIXTURE SUBSTITUTIONS SHALL BE PROVIDED WITH "LIGHTING FACTS", "DESIGNLIGHTS CONSORTIUM" (DLC), OR OTHER THIRD PARTY PERFORMANCE VALIDATION. - LIGHTING CONTROL DEVICES AND FIXTURE DRIVERS/BALLASTS/POWER SUPPLIES/ETC. SHALL BE COMPATIBLE AND BE PROVIDED FOR A COMPLETE/OPERABLE SYSTEM. - AFTER AWARD, IF A SUBMITTED FIXTURE IS DIFFERENT FROM THE EXACT SPECIFIED FIXTURE, LIGHTING PHOTOMETRICS FOR ALL INTERIOR AND EXTERIOR AREAS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER WITH THE SUBMITTALS. - ALL FIXTURE ASSEMBLIES SHALL BE UL OR OTHER APPROVED NATIONALLY RECOGNIZED TESTING AGENCY LISTED AND LABELED.							

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MATTHEW J. RUTKOWSKI
ENGINEER OF RECORD



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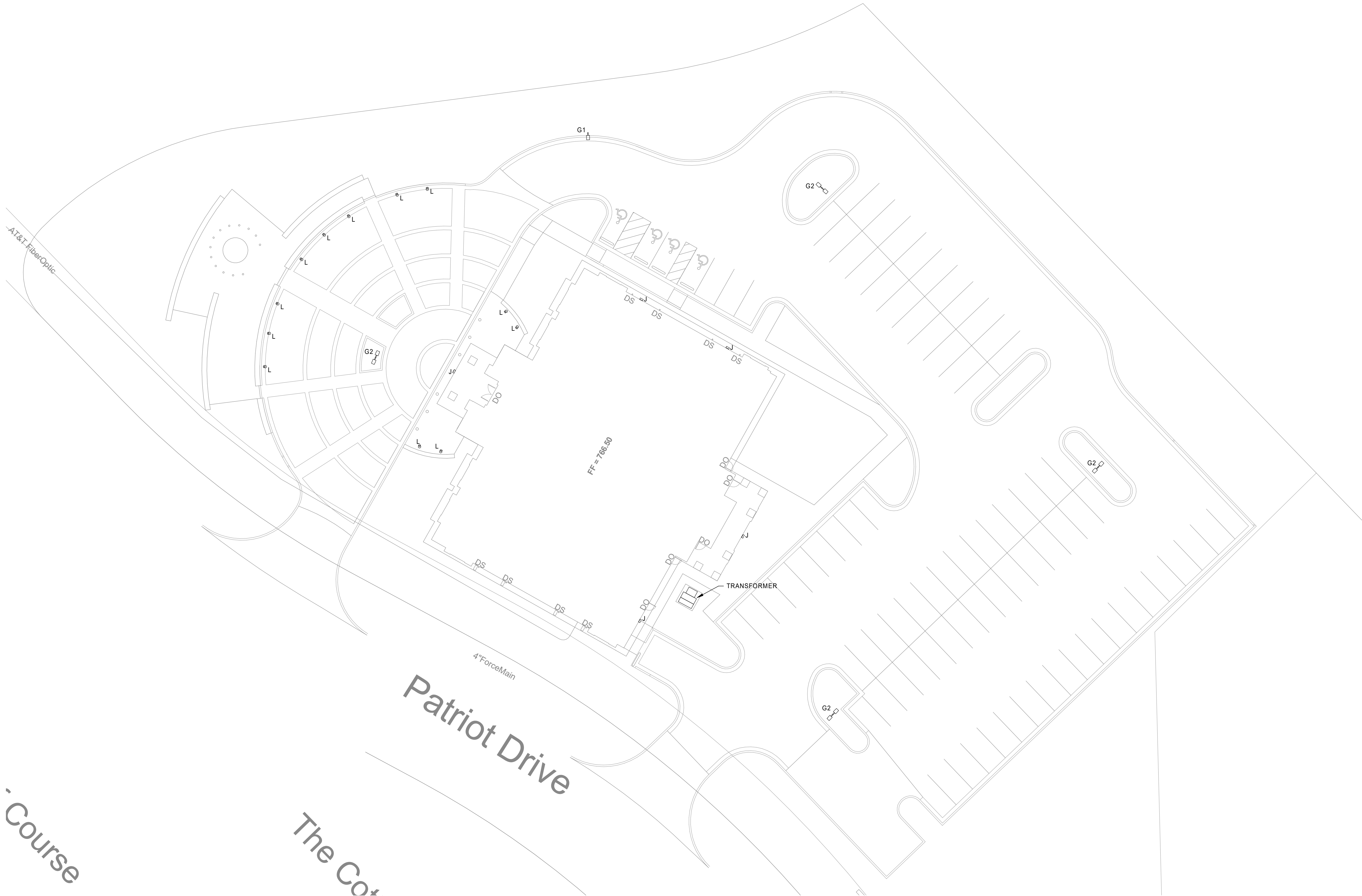
Folds of Honor Operations
Building

5917 Patriot Drive, Owasso, OK 74055

GH2 PROJECT NUMBER: 20170021		
ISSUE DATE:		
ISSUE:		
OTHER ISSUE DATES:		
NO.	DESCRIPTION	DATE
	PERMIT SET	06/19/2020
	PROGRESS SET	07/14/2020
	PROGRESS SET	08/04/2020

SHEET NAME:
**SCHEDULES AND
DIAGRAMS**

SHEET NUMBER:
E-603



1

ELECTRICAL SITE PLAN

1" = 20'-0"



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SHEET NAME:
**ELECTRICAL SITE
PLAN**

SHEET NUMBER:
ES-101

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