

CABOOL M.S. TORNADO SAFE ROOM

CABOOL R-IV SCHOOL DISTRICT

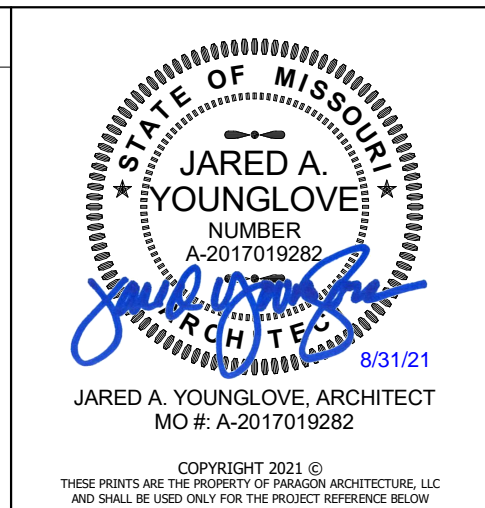
1025 ROGERS AVENUE, CABOOL, MISSOURI 65689



3D VIEW FOR GRAPHIC PURPOSES ONLY. DO NOT CONSTRUCT FROM THIS DRAWING.

SHEET	SHEET NAME
GENERAL	
G0-0	COVER SHEET
G0-1	CODE PLAN
G0-2	ADA STANDARDS
SITE	
C001	GENERAL NOTES
C100	TOPOGRAPHIC SURVEY
C101	DEMOLITION PLAN
C201	SITE PLAN
C301	GRADING PLAN
C401	UTILITY PLAN
C701	DETAILS
STRUCTURAL	
S0-0	GENERAL NOTES
S0-1	SCHEDULED
S0-2	SPECIAL INSPECTIONS
S1-1	FOUNDATION PLAN
S2-1	FOUNDATION DETAILS
S3-1	ROOF FRAMING PLAN
S4-1	FRAMING DETAILS
ARCHITECTURAL	
A0-0	DEMOLITION PLAN
A1-0	FLOOR PLAN
A2-0	ROOF PLAN & DETAILS
A3-0	EXTERIOR ELEVATIONS
A4-0	BUILDING SECTIONS
A5-0	WALL DETAILS
A5-1	WALL DETAILS
A6-0	OPENINGS
A7-0	ENLARGED PLANS AND INTERIOR ELEVATIONS
A7-1	INTERIOR ELEVATIONS
A8-0	REFLECTED CEILING PLAN AND FINISH PLAN
MEP GENERAL	
ME1	SYMBOLS LEGEND
ME2	SITE UTILITIES PLAN
MECHANICAL	
M1	UNDERGROUND & 1ST FLOOR PLUMBING PLAN
M2	FIRST FLOOR HVAC PLANS
M3	PLUMBING DETAILS
M4	MECHANICAL DETAILS
M5	MECHANICAL SCHEDULES
ELECTRICAL	
E1	FIRST FLOOR LIGHTING PLAN
E2	FIRST FLOOR POWER AND SPECIAL SYSTEMS PLAN
E3	ELECTRICAL DETAILS
E4	ELECTRICAL SCHEDULES

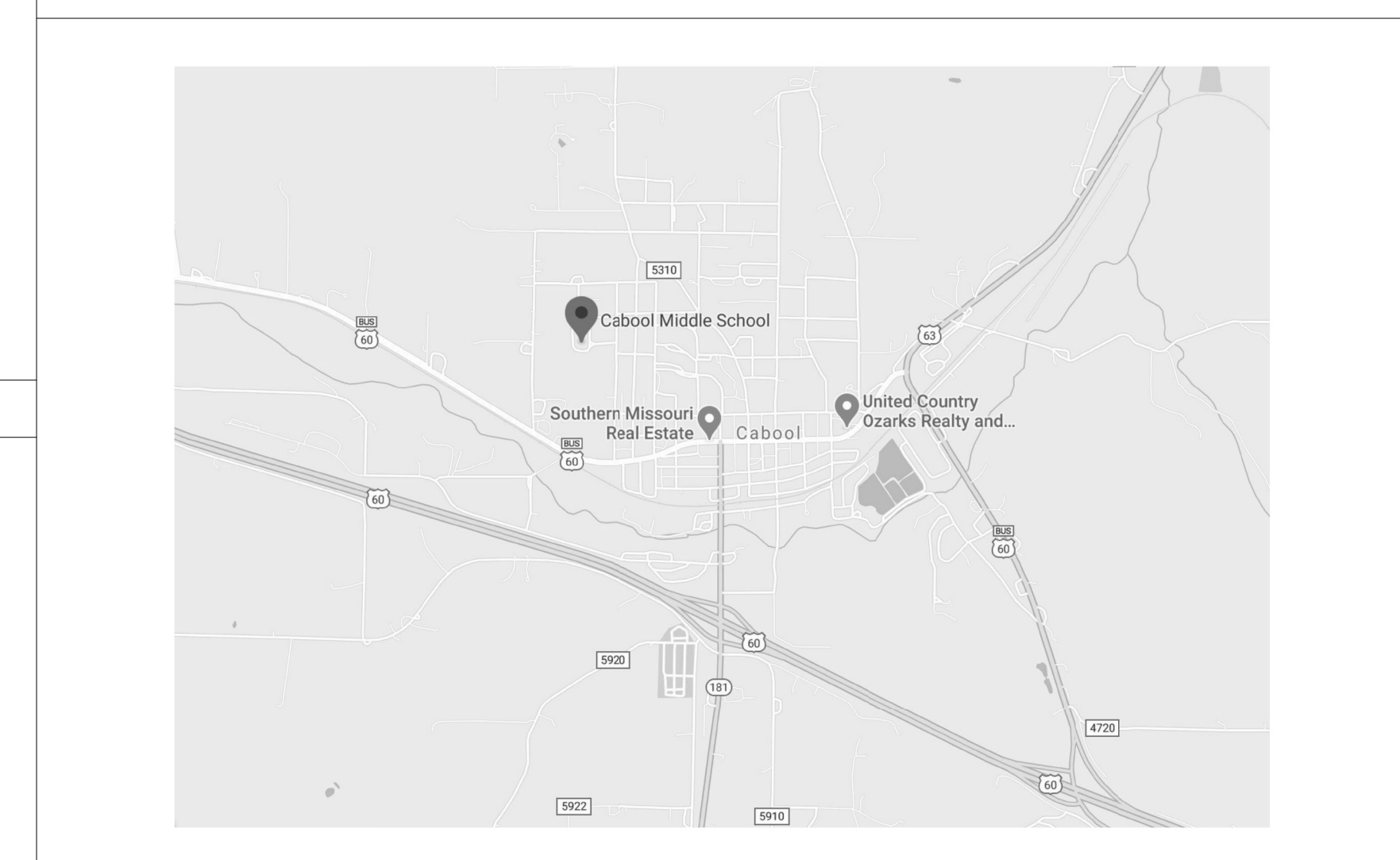
- GENERAL NOTES:**
- ALL WORK BY ALL TRADES SHALL CONFORM TO AND BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, STANDARDS OR RESTRICTIONS WHETHER INDICATED ON THE DRAWINGS OR NOT. THE MORE STRINGENT TO GOVERN DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
 - PARAGON ARCHITECTURE IS NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT SUPERVISION OF WORK IN PROGRESS. IT IS NEITHER EXPRESSED NOR IMPLIED THAT THE CONTRACTOR CAN CONSTRUCT THIS PROJECT WITHOUT THE ARCHITECT'S FIELD OBSERVATIONS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION, THE ARCHITECT DOES NOT DELEGATE THEIR AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF THESE PLANS OR SPECIFICATIONS.
 - THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH ALL SITE CONDITIONS.
 - THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID.
 - EXISTING CONDITIONS BASED UPON INFORMATION PROVIDED BY OTHERS. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE CONNECTIONS THERETO PER LOCAL UTILITY COMPANY REQUIREMENTS.
 - EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER LINES, GAS LINES, SEWER LINES, TELEPHONE LINES, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE PERFORMED HERE UNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY ENGINEER/ARCHITECT IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND INSTALLATIONS, INCLUDING SERVICE CONNECTIONS, IN ADVANCE OF EXCAVATING OR TRENCHING. BY CONSTRUCTION EQUIPMENT AND MACHINERY, TOOLS, UTILITIES, TRANSPORTATION FOR THE ABOVE MENTIONED AND ANY OTHER FACILITIES OR SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
 - SEE INSTRUCTIONS TO BIDDERS INCLUDED IN PROJECT MANUAL FOR REQUIREMENTS TO ALL PERMITS, GOVERNMENTAL FEES, LICENSES AND INSPECTIONS.
 - DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR OVERALL SCOPE OF WORK.
 - THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, CONSTRUCTION EQUIPMENT AND MACHINERY, TOOLS, UTILITIES, TRANSPORTATION FOR THE ABOVE MENTIONED AND ANY OTHER FACILITIES OR SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
 - THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS WITH THE INFORMATION FURNISHED BY THE OWNER AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED.
 - SHOULD A DISCREPANCY BETWEEN CONTRACT DOCUMENTS AND SPECIFICATIONS OCCUR, CONTRACTOR SHOULD IMMEDIATELY NOTIFY ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK.
 - IF A MATERIAL CALL-OUT IS ABSENT FROM ANY DRAWING, DETAIL, OR SPECIFICATION IN THE DOCUMENTS, THE CONTRACTOR SHALL REQUEST INFORMATION AND/OR CLARIFICATION FROM THE ARCHITECT IN WRITING PRIOR TO SUBMITTING A BID. FAILURE TO REQUEST INFORMATION AND/OR CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING THE PROJECT WARRANTS THAT THE CONTRACTOR HAS THOROUGHLY REVIEWED THE DRAWINGS AND HIS/HER BID INCLUDES ADEQUATE FUNDS TO COMPLETE THE PROJECT AS REASONABLY INFERRED FROM THE DOCUMENTS.
 - WHENEVER CONFLICTING INFORMATION OR DIRECTION OCCURS IN THE SPECIFICATIONS OR THE DRAWINGS, THE COST FOR THE MORE EXPENSIVE OPTION INCLUDING, BUT NOT LIMITED TO, DETAILS, INSTALLATIONS, PROCEDURES, CALL-OUTS, MATERIALS, SCHEDULES, OR SPECIFICATION SHALL BE USED IN THE CONTRACTOR'S BID PRICE FOR THE PROJECT. IF, THROUGH CLARIFICATION, THE LESSER COST OPTION APPLIES, THEN THE CONTRACTOR SHALL ISSUE A COST CREDIT TO THE OWNER FOR THE ACTUAL COST DIFFERENCE PLUS CONTRACTOR MARKUP INCLUDING OVERHEAD AND PROFIT.
 - ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE. IF A CONDITION EXISTS IN THE DRAWINGS WHERE THE APPLICABLE CONSTRUCTION DETAIL IS UNCLEAR, THE CONTRACTOR SHALL REQUEST INFORMATION AND/OR CLARIFICATION FROM THE ARCHITECT IN WRITING PRIOR TO SUBMITTING THE BID FOR CONSTRUCTION OF THE PROJECT.
 - APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
 - GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE UNLESS OTHERWISE NOTED.
 - CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREBY.
 - GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (AIA DOCUMENT A201) SHALL BE BINDING AS PART OF THESE CONSTRUCTION DOCUMENTS.
 - THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE, INCLUDING THE DRAWINGS AND SPECIFICATIONS, AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. SUBMISSION OR DISTRIBUTION OF INSTRUMENTS OF SERVICE TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR SIMILAR PURPOSES IN CONNECTION WITH THE PROJECT IS NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF THE RESERVED RIGHTS OF THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS.



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com



ARCHITECT OF RECORD:



637 WEST COLLEGE STREET
SPRINGFIELD, MO 65806
PH: 417-885-0002

CIVIL ENGINEER:



830 E. PRIMROSE, SUITE 200
SPRINGFIELD, MO 65807
PH: 417-888-0645

STRUCTURAL ENGINEER:



830 E. PRIMROSE, SUITE 200
SPRINGFIELD, MO 65807
PH: 417-888-0645

MEP ENGINEER:



3333. E. BATTLEFIELD ROAD, SUITE 1000
SPRINGFIELD, MO 65807
PH: 417-481-0020

GO-0 CABOOL M.S. TORNADO SAFE ROOM COVER SHEET

PROJECT NUMBER: 20-606
DATE: 08/16/2021

PROJECT DESCRIPTION:
1025 ROGERS AVENUE,
CABOOL, MISSOURI 65689

PROJECT ARCHITECT: JAY NSB
DRAWN BY: JAY NSB
CHECKED BY: PHY

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED (USE OF THESE DOCUMENTS CONSTITUTES AN IMPLIED CONTRACT), SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 15% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

ICC 500 - 2008 SECTION 107.3.3

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-FORCE RESISTING SYSTEM OR ANY COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, THE RESPONSIBLE DESIGN PROFESSIONAL, AND THE OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGEMENT THE CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

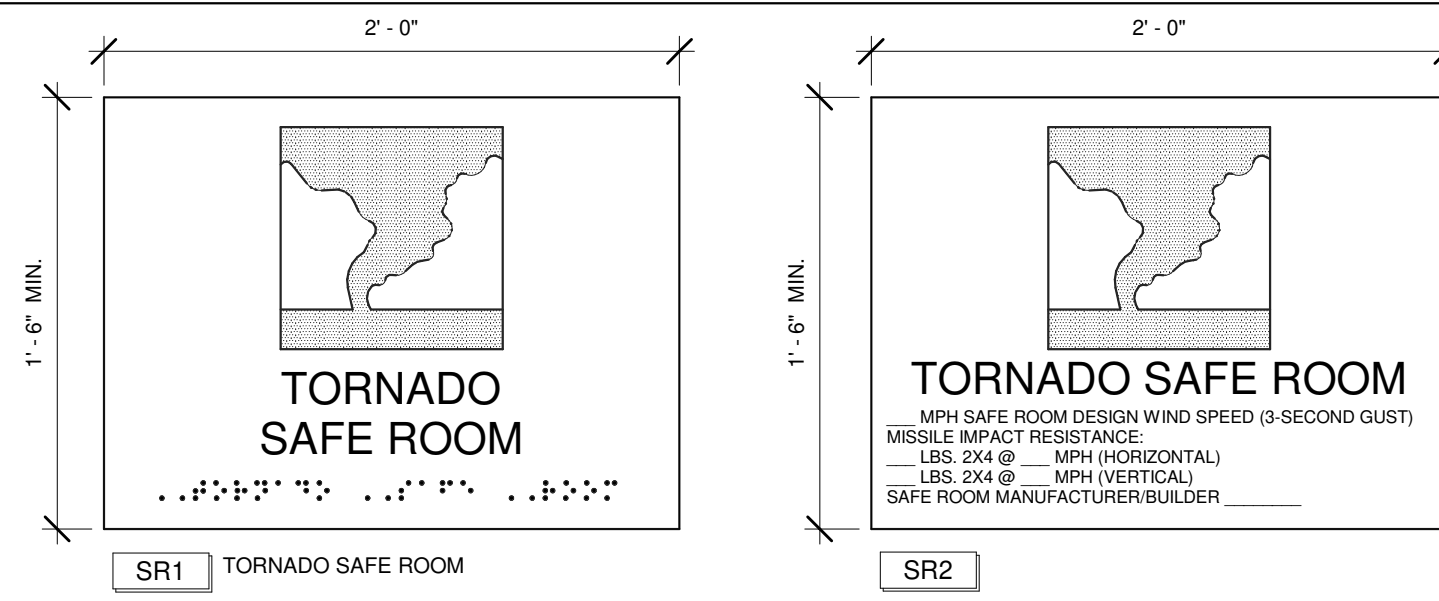
EXCEPTION: PREFABRICATED OR PANELIZED STORM SHELTER COMPONENTS WHICH HAVE BEEN INSPECTED AND LABELED BY AN APPROVED AGENCY MEETING REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

SAFE ROOM LIMIT OF LIABILITY

THE DESIGNS INCLUDED HEREIN ARE BASED ON EXTREME RESEARCH OF THE CAUSES AND EFFECTS OF WINDSTORM DAMAGE TO BUILDINGS. SAFE ROOMS DESIGNED AND BUILT TO THESE STANDARDS SHOULD PROVIDE A HIGH DEGREE OF OCCUPANT PROTECTION DURING TORNADOS. ANY SUBSTITUTION OF EITHER MATERIALS OR DESIGN CONCEPTS MAY DECREASE THE LEVEL OF OCCUPANT PROTECTION AND/OR INCREASE THE POSSIBILITY OF PERSONAL INJURY DURING A SEVERE EVENT.

BECAUSE IT IS NOT POSSIBLE TO PREDICT OR TEST ALL CONDITIONS THAT MAY OCCUR DURING SEVERE WINDSTORMS, OR CONTROL THE QUALITY OF CONSTRUCTION, AMONG OTHER THINGS, THE DESIGNER DOES NOT WARRANT THE DESIGN.

THE DESIGNER NEITHER MANUFACTURES NOR SELLS SAFE ROOMS BUILT FROM THE DESIGN. THE DESIGNER HAS NOT MADE AND DOES NOT MAKE ANY REPRESENTATION, WARRANTY, OR COVENANT, EXPRESSED OR IMPLIED, WITH RESPECT TO THE DESIGN, CONDITION, QUALITY, DURABILITY, OPERATION, FITNESS FOR USE, OR SUITABILITY OF THE SAFE ROOM IN ANY RESPECT WHATSOEVER. THE DESIGNER SHALL NOT BE OBLIGATED OR LIABLE FOR ACTUAL OR OTHER DAMAGES OF OR TO USERS OF SAFE ROOM OR ANY OTHER PERSON OR ENTITY ARISING OUT OF OR IN CONNECTION WITH THE USE, CONDITION, AND/OR PERFORMANCE OF SAFE ROOMS BUILT FROM THIS DESIGN OR FROM THE MAINTENANCE THEREOF.



- SR1 TORNADO SAFE ROOM
- SR2 TORNADO SAFE ROOM WITH MPH SAFE ROOM DESIGN WIND SPEED (3 SECOND GUST) MISSILE IMPACT RESISTANCE. (LBS. 2X4 @ MPH (HORIZONTAL), LBS. 2X4 @ MPH (VERTICAL), SAFE ROOM MANUFACTURER/BUILDER)
- SR3 TORNADO SAFE ROOM INSIDE MAINTAIN REFLECTIVITY REQUIREMENTS LISTED BELOW

MOUNT 48" A.F.F.

ALUMINUM SIGN: BACKGROUND TO BE NON-REFLECTIVE.

FROM FEMA 361, SECOND EDITION (FIGURE 9-1):

"SAFE ROOM" AND LOGOS SHALL BE REFLECTIVE, USING 2M SCOTCHLITE DIAMOND-GRADE REFLECTIVE SHEETING OR AN EQUIVALENT PRODUCT, YELLOW IN COLOR. VERIFY WITH MANUFACTURER THAT THE SIGN WILL GLOW FOR A MINIMUM OF 6 HOURS, IN THE EVENT OF POWER LOSS.

EXTERIOR SIGNAGE AND LETTERING SHALL BE MANUFACTURED TO WITHSTAND ALL WEATHER CONDITIONS. AT LEAST ONE SIGN SHALL BE OF THE "NOFS" DESIGNATION CONTAINING THE DESIGN WIND SPEED, MISSILE IMPACT RESISTANCE, AND THE SAFE ROOM MANUFACTURER/BUILDER.

FEMA OCCUPANCY

STANDING/SEATED 5 SF/OCC.
WHEELCHAIR 10 SF/OCC.

REQUIRED:

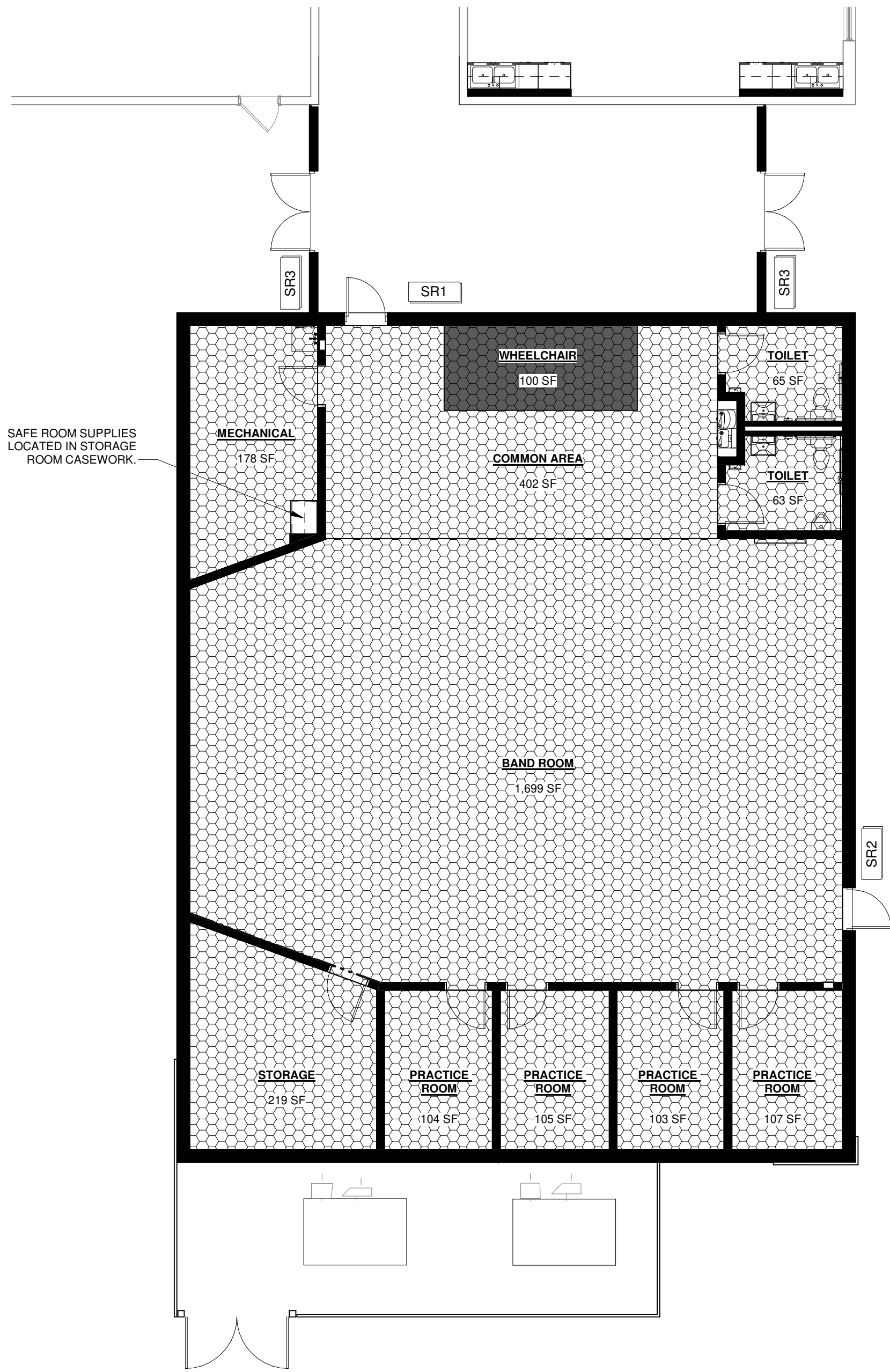
STANDING - 2,960 SF 592 OCC.
WHEEL CHAIR - 100 SF 10 OCC.
3,060 SF 602 OCC.

PROVIDED:

COMMON AREA - 402 SF
WHEELCHAIR - 100 SF
TOILET - 65 SF
TOILET - 63 SF
BAND ROOM - 1,699 SF
PRACTICE ROOM - 107 SF
PRACTICE ROOM - 103 SF
PRACTICE ROOM - 105 SF
PRACTICE ROOM - 104 SF
MECHANICAL - 178 SF
STORAGE - 219 SF
3,145 SF

LEGEND:

STANDING OCCUPANCY 5 SF/OCC.
WHEELCHAIR OCCUPANCY 10 SF/OCC.

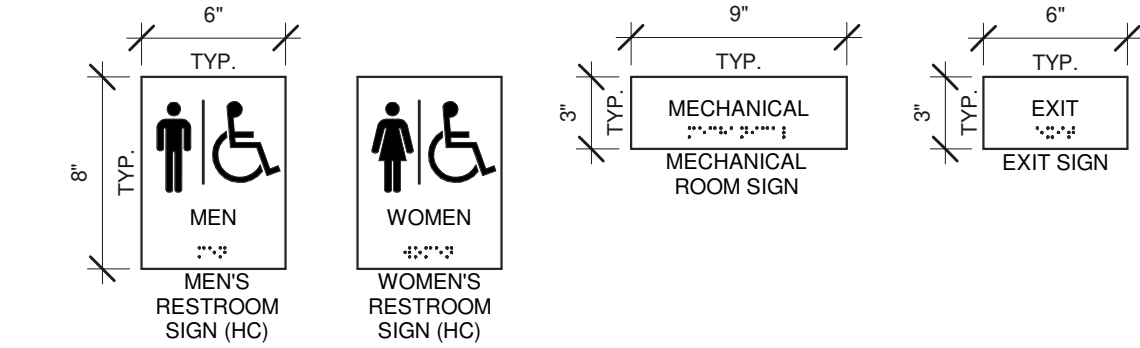


2 FEMA OCCUPANCY PLAN
SCALE 1/8" = 1'-0"

SIGNAGE LEGEND

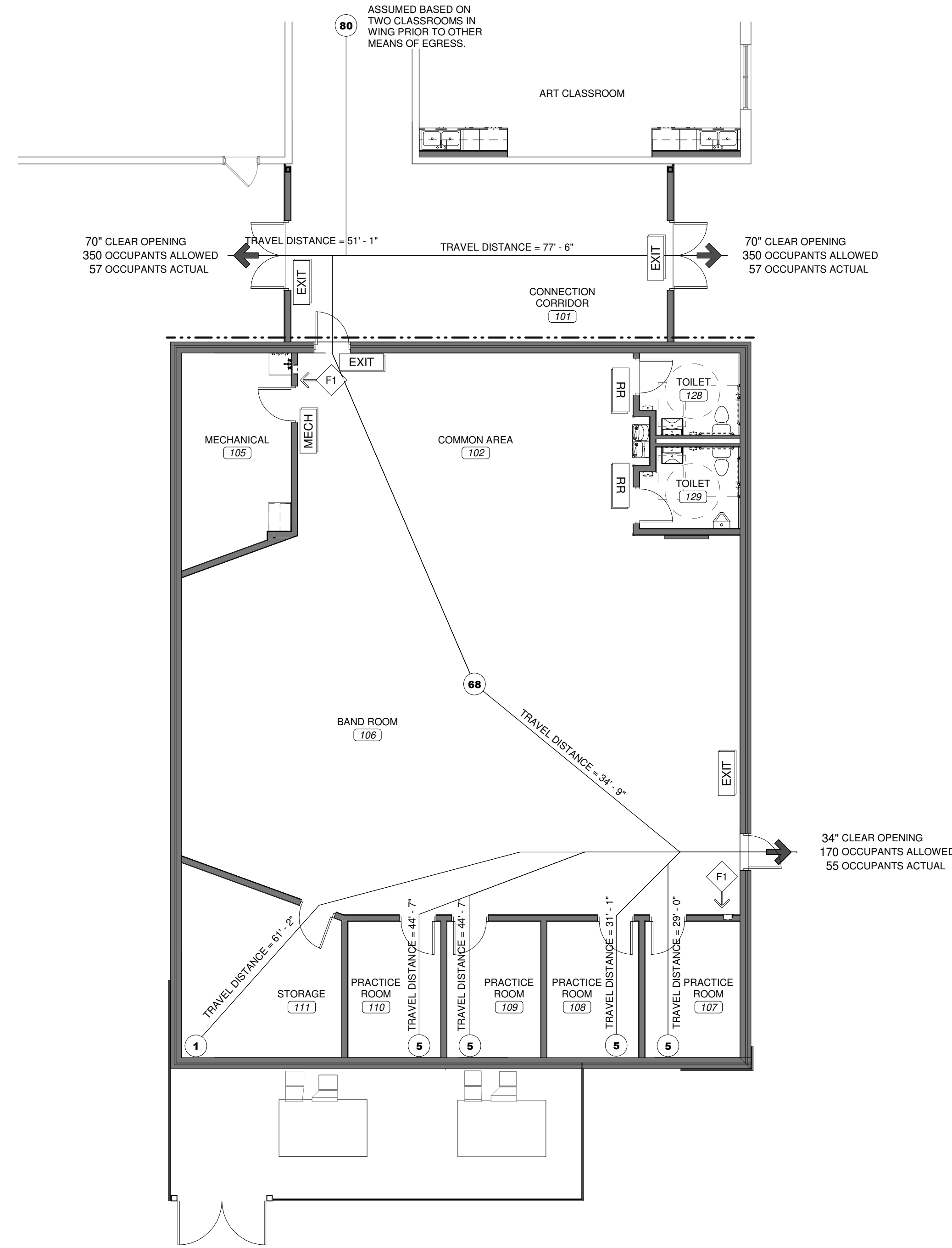
SIGNAGE GENERAL NOTES

1. PROVIDE THE FOLLOWING SIGNS AT ALL INTERIOR ROOMS WITHIN PROJECT EXTENTS, TYPICAL.
2. INSTALL SIGNS (HEIGHTS AND LOCATIONS) AS DIRECTED BY OWNERS' REPRESENTATIVE IN FIELD. SEE EXISTING BUILDING SIGN PLACEMENT FOR REFERENCE. MAJORITY OF SIGNS WILL BE 48" A.F.F. MINIMUM, 60" A.F.F. MAXIMUM.
3. PROVIDE TACTILE EXIT SIGNAGE AT EACH EXIT DOOR COMPLIANT WITH IBC 2012 1011.6 AND ANSI 117.1-2009, CHAPTER 7, SECTION 703.
4. COLOR OF SIGNAGE TO BE SELECTED BY ARCHITECT PRIOR TO FABRICATION FROM MANUFACTURER FULL LINE OF COLORS (12 COLORS MINIMUM)
5. SIGNS SHALL BE ONE PIECE CONSTRUCTION WITH THE EXCEPTION OF APPLIED VINYL LETTERS & CHARACTERS.
6. ALL SIGNAGE SHALL BE ADA/ANSI COMPLIANT.
7. RAISED BRAILLE CHARACTERS PROVIDED BY SIGN SUPPLIER.
8. SEE FLOOR PLANS & EQUIPMENT SCHEDULES FOR LOCATIONS OF VINYL APPLIED LETTERING.
9. SEE SPECIFICATIONS FOR MORE INFORMATION.
10. SEE FINISH FLOOR PLANS FOR ADDITIONAL NON-CODE RELATED SIGNAGE.



SIGNAGE TAGS

- EXIT PROVIDE (1) SIGN PER EXIT COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSII AND ADA GUIDELINES. SIGN FINISHES TO BE SELECTED BY A.O.R.
- RR PROVIDE (1) SIGN PER RESTROOM COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSII AND ADA GUIDELINES. SIGN FINISHES TO BE SELECTED BY A.O.R.
- MECH PROVIDE (1) SIGN PER ELECTRICAL/MECHANICAL ROOM COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSII AND ADA GUIDELINES. SIGN FINISHES TO BE SELECTED BY A.O.R.



1 CODE PLAN FIRST LEVEL
SCALE 1/8" = 1'-0"

APPLICABLE CODES & STANDARDS

- 2012 ICC INTERNATIONAL CODE COUNCIL ALL REFERENCE STANDARDS
- 2012 ICC INTERNATIONAL BUILDING CODE
- 2012 ICC INTERNATIONAL PLUMBING CODE
- 2012 ICC INTERNATIONAL MECHANICAL CODE
- 2012 ICC INTERNATIONAL FIRE CODE
- 2014 NATIONAL ELECTRICAL CODE (NEC)
- 2010 ADAAG AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
- 2009 ANSII A117.1 GUIDELINES FOR ACCESSIBLE & USABLE BUILDING & FACILITIES

GENERAL PROJECT INFORMATION

USER GROUP: E - EDUCATIONAL
CONSTRUCTION TYPE: II-B
SPRINKLERED: NOT REQUIRED
GROSS BUILDING AREA: 4,240 SF

SPECIAL REQUIREMENTS (IBC CHAPTER 4)

SPECIAL REQUIREMENTS: CONSTRUCTED IN ACCORDANCE WITH ICC-500

GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)

PER TABLE 504.3: MAXIMUM 55 FEET ABOVE GRADE PLANE ALLOWED. 26 FEET PROVIDED.
PER TABLE 504.4: MAXIMUM 2 STORIES ABOVE GRADE PLANE ALLOWED. 1 STORY PROVIDED.
PER TABLE 506.2: MAXIMUM 14,500 SF ALLOWED, REFER TO BUILDING SQUARE FOOTAGE LISTED ABOVE.
PER TABLE 506: INCIDENTAL USE AREAS.

FIRE RESISTANCE RATINGS (IBC CHAPTER 6)

CONSTRUCTION TYPE: II-B
PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS (EXTERIOR AND INTERIOR): 0 HOURS
NON-BEARING WALLS AND PARTITIONS EXTERIOR: 0 HOURS
NON-BEARING WALLS AND PARTITIONS INTERIOR: 0 HOURS
FLOOR CONSTRUCTION: 0 HOURS
ROOF CONSTRUCTION: 0 HOURS

FIRE AND SMOKE PROTECTION FEATURES (IBC CHAPTER 7)

FIRE WALLS: 2 HOURS; EXTEND NOT LESS THAN 18 INCHES BEYOND EXTERIOR SURFACE OF EXTERIOR WALLS.

INTERIOR FINISHES (IBC CHAPTER 8)

TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS: A
CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS: B
ROOMS AND ENCLOSED SPACES: C

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

AUTOMATIC SPRINKLER SYSTEM
USE GROUP: E; NOT REQUIRED, UNDER 12,000 SF.
PORTABLE FIRE EXTINGUISHERS
SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 10 AND INTERNATIONAL FIRE CODE. SEE PLAN FOR LOCATIONS & TYPE.
FIRE ALARM AND DETECTION SYSTEM
MANUAL FIRE ALARM SYSTEM: REQUIRED

MEANS OF EGRESS INFORMATION (IBC CHAPTER 10)

SECTION 1004 OCCUPANT LOAD
CALCULATED MAXIMUM OCCUPANT LOADING PER TABLE 1004.1.2
ACCESSORY STORAGE AND MEP ROOMS 300 SF/OCC
EDUCATIONAL CLASSROOM AREAS 25 SF/OCC
OFFICE 100 SF/OCC

REFER TO OCCUPANT LOAD SCHEDULE FOR TOTAL CALCULATED OCCUPANT LOAD.

SECTION 1005 MEANS OF EGRESS SIZING
CORRIDORS AND EGRESS COMPONENTS: OCC. LOAD + 0.2 INCHES, SEE PLANS

SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
PER TABLE 1006.2.1
OCCUPANCY SPACES WITH <49 OCCUPANTS 2 EXITS REQUIRED
COMMON PATH OF TRAVEL: 75 FEET

*NOTE: TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OF THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS VALUES LISTED IN TABLE 1006.2.1.

SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
PER TABLE 1006.3.1
STORIES WITH 1-500 OCCUPANTS 2 EXITS REQUIRED
REFER TO OCCUPANT LOAD SCHEDULE FOR TOTAL OCCUPANCY LOAD.

SECTION 1007 EXIT AND EXIT ACCESS DOORWAY CONFIGURATION
EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/2 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.

SECTION 1017 EXIT ACCESS TRAVEL DISTANCE
SHALL NOT EXCEED 200 FEET IN PROVIDED OCCUPANCY GROUPS.

PLUMBING SYSTEMS (IBC SECTION 2902)

WATER CLOSETS REQUIRED: 2 REQUIRED (1 PER 50 OCCUPANTS), 3 PROVIDED
LAVATORIES REQUIRED: 2 REQUIRED (1 PER 50 OCCUPANTS), 2 PROVIDED
DRINKING FOUNTAINS REQUIRED: 2 REQUIRED (1 PER 100 OCCUPANTS), 2 PROVIDED
SERVICE SINKS REQUIRED: 1 REQUIRED, 1 PROVIDED

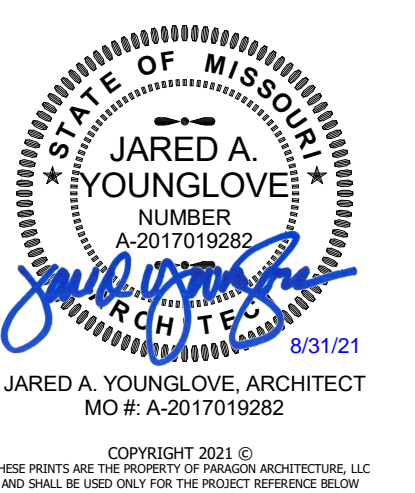
FIRE EXTINGUISHER LEGEND

(ARROW INDICATES WHICH WALL TO PLACE EXTINGUISHER)
NON-RATED FIRE EXTINGUISHER CABINET - SEE SPECS.
MOUNTING TYPE - SEMI RECESSED
MOUNTING HEIGHT - T.O. CABINET SHALL BE 5'-0" A.F.F.

FIRE RESISTANCE RATING LEGEND

2-HOUR FIRE RESISTANCE RATING

ROOM	ROOM NAME	USER GROUP	AREA	SF PER OCC.	OCC.
101	CONNECTION CORRIDOR	N.S.O.	594 SF	0 SF	
102	COMMON AREA	N.S.O.	502 SF	0 SF	
105	MECHANICAL	STOR.(N.S.O.)	178 SF	300 SF	1
106	BAND ROOM	E - CLASS	1,699 SF	25 SF	68
107	PRACTICE ROOM	E - CLASS (N.S.O.)	107 SF	25 SF	5
108	PRACTICE ROOM	E - CLASS (N.S.O.)	103 SF	25 SF	5
109	PRACTICE ROOM	E - CLASS (N.S.O.)	105 SF	25 SF	5
110	PRACTICE ROOM	E - CLASS (N.S.O.)	104 SF	25 SF	5
111	STORAGE	E - CLASS (N.S.O.)	219 SF	300 SF	1
128	TOILET	N.S.O.	65 SF	0 SF	
129	TOILET	N.S.O.	63 SF	0 SF	
			3,736 SF		90



PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
REVISION SCHEDULE
GO-1 CABOOL M.S. TORNADO SAFE ROOM
1025 ROGERS AVENUE, JAY, MO 64801
CABOOL, MISSOURI 65899
PROJECT ARCHITECT: JAY
DRAWN BY: NSB
CHECKED BY: PHY
DATE: 08/16/2021
PROJECT NUMBER: 20-606

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED (USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT), SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Symbol. Includes ADA, BC, CC, CL, CMP, EP, EX EP, EC, EX EC, ES, EX ES, FES, FL, GT, GY, HDPE, INV, LF, MC, RW, RCP, SC, TB, TC, TG, TP, TS, TW, and SCL.

CIVIL LEGENDS

SYMBOLS

Table with 3 columns: Symbol, Description, and Symbol. Includes MARKER STONE, RIGHT OF WAY MARKER, IRON PIN FOUND, IRON PIN SET, CUT CROSS, CONTROL POINT, BENCHMARK, SANITARY SEWER MANHOLE, STORM SEWER INLET, TELEPHONE MANHOLE, POWER POLE, GUY ANCHOR, LIGHT POLE, TELEPHONE RISER, GAS VALVE, GAS METER, WATER VALVE, WATER METER, FIRE HYDRANT, IRRIGATION VALVE, WELL, MAIL BOX, POST, CLEANOUT, SIGN, AIR CONDITIONING UNIT, SHRUB, DECIDUOUS TREE, and CONIFEROUS TREE.

LINETYPES

Table with 3 columns: Linetype, Description, and Linetype. Includes PL (PROPERTY LINE), RW (RIGHT OF WAY LINE), S (SANITARY SEWER LINE), FM (SANITARY SEWER FORCE MAIN), ST (STORM SEWER LINE), IRR (IRRIGATION WATER LINE), FL (FLOW LINE), OHE (OVERHEAD ELECTRIC LINE), UE (UNDERGROUND ELECTRIC LINE), G (GAS LINE), W (WATER LINE), C (COMMUNICATIONS LINE), T (TELEPHONE LINE), UGT (TELEPHONE LINE), FO (FIBER OPTIC LINE), CTV (CABLE TELEVISION), O (CHAIN LINK FENCE), X (BARBED WIRE FENCE), and various contour lines (1000, 1001).

PROJECT CONTROL

CONTROL POINT TABLE with columns: POINT NUMBER, NORTHING, EASTING, and ELEVATION. Contains 4 data points.

GENERAL CIVIL NOTES

- 1. THE GENERAL NOTES ON THE DRAWINGS ARE INTENDED TO SUPPLEMENT THE GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS...
2. CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THESE DRAWINGS...
3. ALL TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)...
4. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES PRESENT...
5. EXISTING UNDERGROUND UTILITIES IN THE VICINITY OF THE WORK TO BE DONE ARE INDICATED ON THE DRAWINGS ONLY...
6. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER...
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THIS CONSTRUCTION...
8. ALL WORK WITHIN ROAD RIGHT OF WAY SHALL CONFORM TO EITHER THE LOCAL JURISDICTION OR THE MISSOURI DEPARTMENT OF TRANSPORTATION REQUIREMENTS...
9. ALL TRENCHES CROSSING THROUGH PAVED AREAS OR AREAS TO BE PAVED SHALL BE BACKFILLED FULL DEPTH WITH COMPACTED CRUSHED STONE MATERIAL...
10. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE...
11. ANY ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY...
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS IN THE VICINITY OF THE JOB CLEAN AND FREE OF ROCKS, SOIL, AND DEBRIS...
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE RIGHT OF WAY AND FOR DAMAGED IMPROVEMENTS SUCH AS CURBS, SIDEWALKS, STREET LIGHT AND TRAFFIC SIGNAL, JUNCTION BOXES, TRAFFIC SIGNAL LOOP WIRING, SIGNAL POLES AND ETC. DAMAGED IMPROVEMENTS SHALL BE REPAIRED IN CONFORMANCE WITH THE LATEST CITY AND MOODT REGULATIONS AND TO THEIR SATISFACTION...
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION AS OUTLINED IN THE EROSION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP)...
15. THE CONTRACTOR SHALL CLEAN OUT ALL INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT THE COMPLETION OF SITE WORK...
16. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS...
17. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE SITE AT ALL TIMES...
18. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS AND/OR INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID...

DEMOLITION NOTES

JOB CONDITIONS

- 1. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL CONDITION OF ANY STRUCTURES TO BE DEMOLISHED.
2. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED FROM THE PROJECT SITE AT THE APPROVAL OF THE OWNER...
3. THE USE OF EXPLOSIVES WILL NOT BE PERMITTED ON THIS PROJECT.
4. THE CONTRACTOR SHALL CONDUCT THE DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
5. THE CONTRACTOR SHALL INSURE SAFE PASSAGE OF PERSONS AROUND THE DEMOLITION AREA...
6. PROVIDE INTERNAL AND EXTERNAL SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ANY STRUCTURES TO BE DEMOLISHED...
7. MAINTAIN EXISTING UTILITIES INDICATED TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS...

DEMOLITION

- 1. POLLUTION CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN AIR...
2. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS...
3. BUILDING DEMOLITION: DEMOLISH BUILDINGS COMPLETELY AND REMOVE FROM SITE...
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER TO GROUND BY HOIST, DERRICK OR OTHER SUITABLE METHODS.
6. BREAK UP AND REMOVE CONCRETE SLABS ON GRADE...
7. BELOW-GRADE CONSTRUCTION: DEMOLISH FOUNDATION WALLS AND OTHER BELOW GRADE CONSTRUCTION...
8. FILLING VOIDS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION AS OUTLINED BELOW.
9. USE SATISFACTORY SOIL MATERIALS AS DEFINED IN A.S.T.M. D-2487...
10. PRIOR TO PLACEMENT OF FILL MATERIAL, ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST OR FROZEN MATERIAL, TRASH, AND DEBRIS.
11. PLACE FILL MATERIAL IN HORIZONTAL LAYERS AT DEPTHS AND MOISTURE CONTENTS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING REPORT.
12. AFTER FILL PLACEMENT AND COMPACTION, GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE FLOW TO SURFACE STRUCTURES.

DISPOSAL OF DEMOLISHED MATERIALS

- 1. REMOVE FROM SITE ACCUMULATED VEGETATION, DEBRIS, RUBBISH, AND OTHER MATERIAL RESULTING FROM THE DEMOLITION OPERATION.
2. BURNING OF COMBUSTIBLE MATERIALS FROM DEMOLISHED STRUCTURES AND VEGETATION WILL NOT BE PERMITTED ON SITE.
3. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLISHED STRUCTURES, VEGETATION, PAVEMENT, AND BASE ROCK AND LEGALLY DISPOSE OFF SITE.

PROTECTION OF EXISTING STRUCTURES AND VEGETATION

- 1. CONTRACTOR SHALL INSTALL 6" STEEL FENCE POSTS, DRIVEN 18" INTO THE GROUND, AT 10' ON CENTER AT TREE DRIP LINES AND INSTALL 4" TENAX ORANGE WARNING BARRIER OR EQUAL...
2. CONTRACTOR SHALL REMOVE POSTS AND FENCE FABRIC AFTER ALL CONSTRUCTION IS COMPLETE.

SEDIMENT & EROSION CONTROL NOTES

- 1. THE EROSION CONTROL PLAN SHOWS THE LOCATION AND DETAILS FOR PRIMARY EROSION CONTROLS TO BE CONSTRUCTED...
2. INITIAL SEDIMENT CONTROLS SHOWN ON THE EROSION CONTROL PLAN MUST BE INSTALLED PRIOR TO ANY OTHER WORK.
3. THE CONTRACTOR SHALL CLEAN ALL STREETS BOTH INTERIOR AND ADJACENT TO THE SITE, AS NEEDED AFTER EACH RAINFALL AND AT THE END OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST DURING CONSTRUCTION AND SHALL WATER CONSTRUCTION AREAS WHENEVER CONDITIONS WARRANT.
5. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT FROM STORM DRAINS, INLETS, CULVERTS, ETC. PRIOR TO APPROVAL OF CONSTRUCTION.
6. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS, SOD, AND ETC. SHALL BE SEEDED AND MULCHED...
7. IF APPLICABLE THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS AS PUT FORTH IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP)...

UTILITY CONSTRUCTION NOTES

- 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES PRESENT...
2. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS...
3. ALL UTILITY CONSTRUCTION AND MATERIALS SHALL BE IN CONFORMANCE WITH CITY AND LOCAL FIRE DEPARTMENT REQUIREMENTS AND STANDARD PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NOT OBTAINED BY THE OWNER.
5. INSTALL TRACER WIRE WITH ALL SANITARY SEWER AND POTABLE WATER UTILITIES AS REQUIRED...
6. ALL HDPE PIPE, JOINTS AND FITTINGS SHALL BE ADS N-12 OR EQUAL...
7. ROOF DRAINS SHALL BE SCHEDULE 40 PVC OR ADS N-12 ST HDPE OR EQUAL...
8. COORDINATE THE INSTALLATION OF THE STORM SEWER WITH THE INSTALLATION OF THE POTABLE WATER, COMMUNICATION, ELECTRIC, AND SANITARY SEWER TO AVOID CONFLICTS.
9. EARTHWORK SHALL BE PLACED TO FINISH GRADE IN THE IMMEDIATE AREA OF UTILITIES PRIOR TO CONSTRUCTION OF UTILITIES...
10. ALL MATERIALS TO BE SUPPLIED AND LABOR TO BE DONE BY CONTRACTOR SHALL BE COMPLETED AS A PART OF THIS WORK...
11. ALL UTILITY SERVICE LINES SHALL BE KEPT IN SERVICE AND PROTECTED DURING CONSTRUCTION OPERATIONS...
12. ANY RELOCATION OF UTILITY SERVICE LINES THAT ARE REQUIRED TO COMPLETE THE PROJECT IS TO BE COMPLETED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE...
13. ALL WATER, SEWER, FIBER OPTIC CABLE, GAS SERVICE AND OTHER UTILITY REQUIREMENTS SHALL BE COORDINATED WITH THE APPROPRIATE LOCAL UTILITY PROVIDERS PRIOR TO INSTALLATION...

SITE GRADING NOTES

- 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES PRESENT...
2. CONTRACTOR SHALL USE CAUTION AROUND ALL EXISTING UTILITIES LOCATED ON SITE...
3. SEDIMENT AND EROSION CONTROLS IN CONFORMANCE WITH THE EROSION CONTROL PLAN AND THE APPLICABLE SPECIFICATIONS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE GRADING ACTIVITIES.
4. CONTRACTOR SHALL STRIP THE TOPSOIL FROM ALL AREAS TO BE DISTURBED AND STOCKPILE IT IN A LOCATION CHOSEN BY THE OWNER...
5. THE SUBGRADE FOR THE PROJECT SITE SHALL BE COMPACTED TO 95% STANDARD PROCTOR AS DETERMINED BY ASTM-D698...
6. STONES OR BOLDERS MEASURING GREATER THAN 12" IN ANY DIMENSION SHALL NOT BE PLACED IN THE UPPER 3 FEET OF THE FILL...
7. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING AND CORRECTING UNSUITABLE SOIL CONDITIONS RELATED TO WET SOILS AND OTHER CONDITIONS...
8. CONTRACTOR SHALL NOTIFY THE OWNERS OR THEIR REPRESENTATIVE FOR INSPECTION PRIOR TO PLACEMENT OF CRUSHED STONE BASE...
9. THE CONTOURS, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT...
10. CONTRACTOR SHALL FINISH GRADE EARTH SLOPES AS SHOWN TO NO STEEPER THAN 1 FOOT VERTICAL TO 3 FEET HORIZONTAL.
11. CONTRACTOR SHALL GRADE LANDSCAPED AREAS AT A MINIMUM OF 1% TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND SIDEWALKS...
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL EARTHWORK QUANTITIES...
13. ALL DISTURBED AREAS, NOT RECEIVING PERMANENT STABILIZATION, SHALL HAVE 4" OF TOPSOIL REPLACED...
14. THE CONTRACTOR SHALL GRADE ALL AREAS DISTURBED DURING THE COMPLETION OF THIS PROJECT...
15. ALL DISTURBED AREAS WITH SLOPES EXCEEDING 15% SHALL HAVE EROSION CONTROL BLANKETS INSTALLED...
16. ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR...
17. PRIOR TO MOVING OFF THE PROJECT SITE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO MAKE A FINAL REVIEW OF THE CONSTRUCTION SITE.
18. IN THE EVENT THAT BLASTING IS PERMITTED ON THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, APPLICABLE SAFETY CODE REQUIREMENTS AND REGULATIONS RELATIVE TO THE HANDLING, STORAGE AND USE OF EXPLOSIVES...

SAFETY NOTICE TO CONTRACTOR

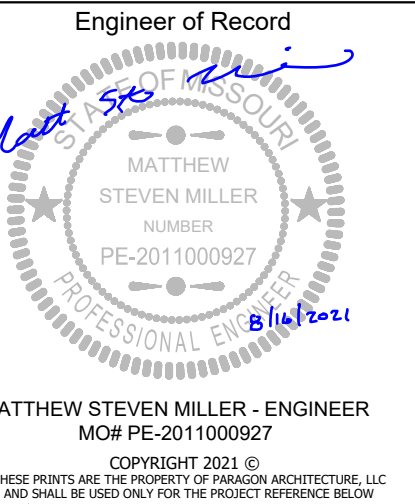
- 1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE...
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES...

UTILITY DISCLAIMER

- 1. INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE...
2. DRAWING REPRODUCTION AND SCALING MAY ALTER THE INDICATED GRAPHIC SCALES.

USE OF CONSTRUCTION DOCUMENTS

- 1. DRAWINGS AND SPECIFICATIONS ARE PROVIDED AS A SERVICE...
2. DRAWING REPRODUCTION AND SCALING MAY ALTER THE INDICATED GRAPHIC SCALES.

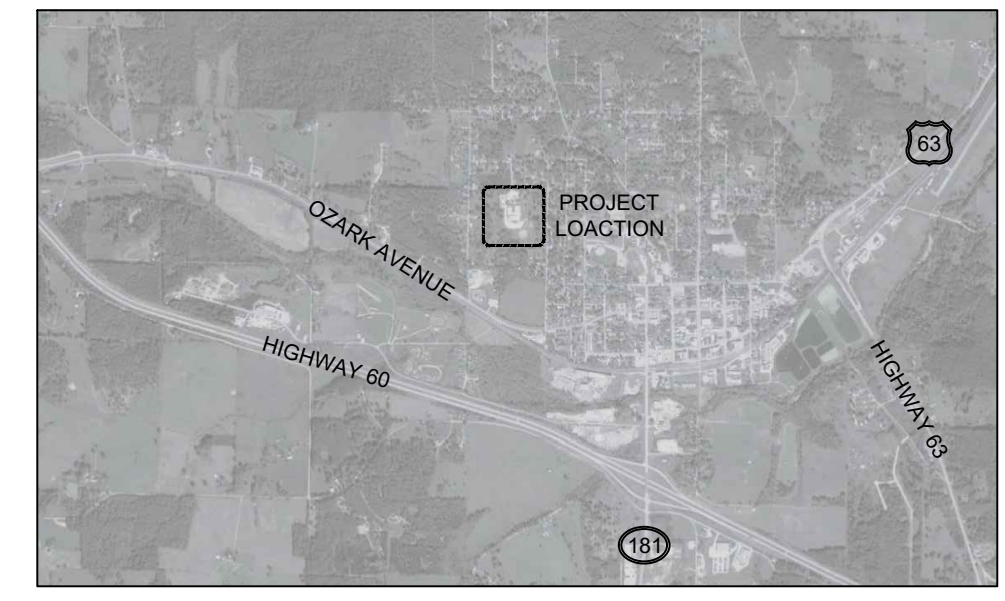


MATTHEW STEVEN MILLER - ENGINEER
MO# PE-2011000927
COPYRIGHT 2021 ©
THIS PRINT IS THE PROPERTY OF PARAGON ARCHITECTURE, LLC
AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

C-001 Cabool Middle School Tornado Safe Room
GENERAL NOTES
PROJECT NUMBER: 20-606
DATE: JAY
DRAWN BY: JHT
CHECKED BY: MSM
1025 Rogers Avenue
Cabool, Missouri 65609
PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:
1506 REPUBLIC ROAD
Cabool, Missouri 65609
PH: 417.885.0645 - F: 417.888.0687
WWW.TOTHOASSOCIATES.COM
TOTHO & ASSOCIATES, INC. # 20040452
MISSOURI STATE CERTIFICATE OF AUTHORITY # 20040452





VICINITY MAP
 SCALE: N.T.S.

HATCH LEGEND:

- = ASPHALT PAVEMENT.
- = CONCRETE SIDEWALK.
- = GRAVEL PAVEMENT.
- = LANDSCAPING AREA.

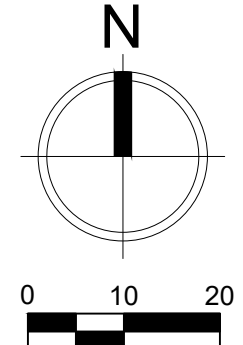
CIVIL LEGENDS

SYMBOLS

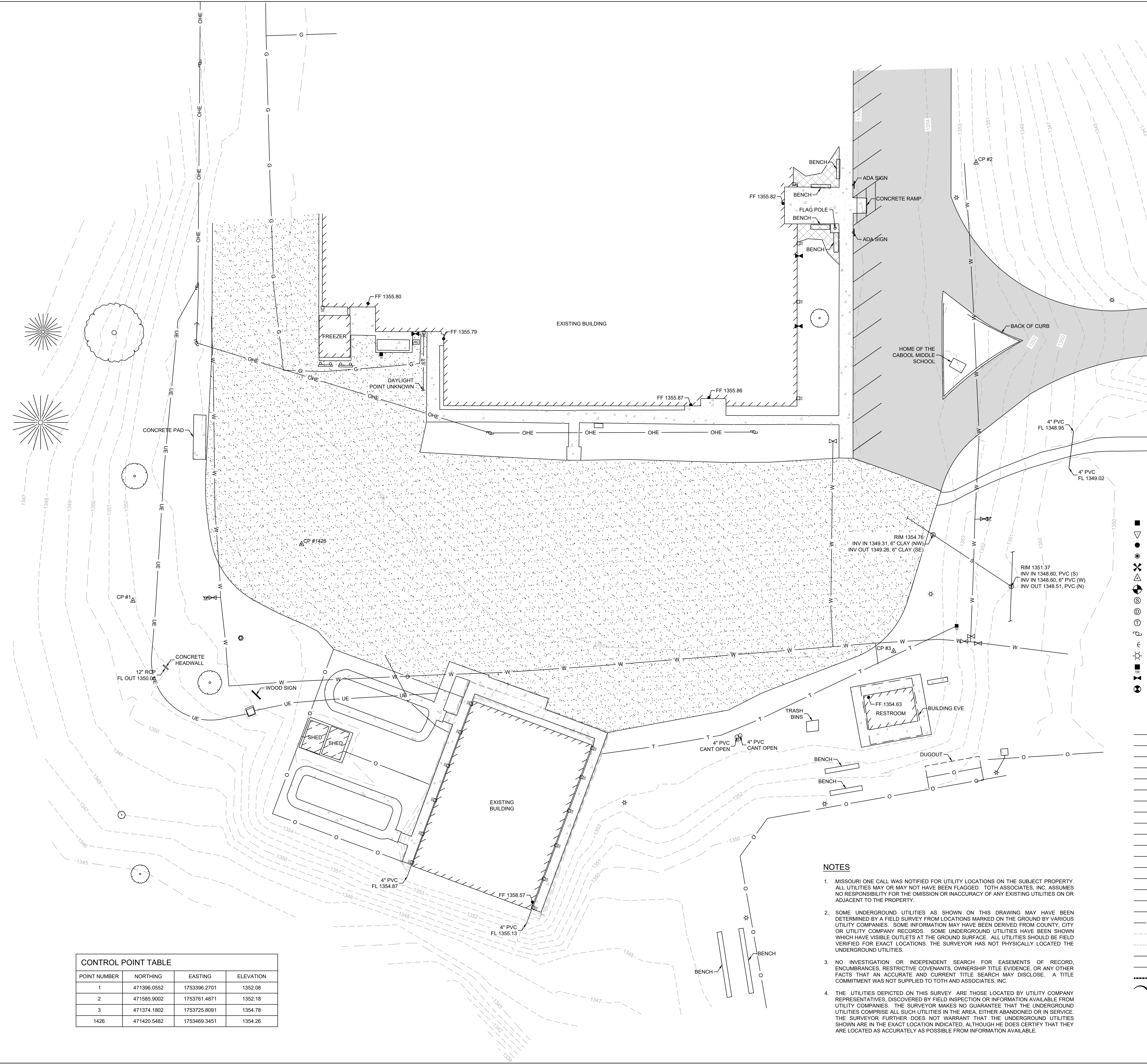
- MARKER STONE
- RIGHT OF WAY MARKER
- IRON PIN FOUND
- IRON PIN SET
- CUT CROSS
- CONTROL POINT
- BENCHMARK
- SANITARY SEWER MANHOLE
- STORM SEWER INLET
- TELEPHONE MANHOLE
- POWER POLE
- GUY ANCHOR
- LIGHT POLE
- TELEPHONE RISER
- GAS VALVE
- GAS METER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION VALVE
- WELL
- MAIL BOX
- POST
- CLEANOUT
- SIGN
- AIR CONDITIONING UNIT
- SHRUB
- DECIDUOUS TREE
- CONIFEROUS TREE

LINETYPES

- PL PROPERTY LINE
- RW RIGHT OF WAY LINE
- S SANITARY SEWER LINE
- FM SANITARY SEWER FORCE MAIN
- ST STORM SEWER LINE
- IRR IRRIGATION WATER LINE
- FL FLOW LINE
- OHE OVERHEAD ELECTRIC LINE
- UE UNDERGROUND ELECTRIC LINE
- G GAS LINE
- W WATER LINE
- C COMMUNICATIONS LINE
- T TELEPHONE LINE
- FO FIBER OPTIC LINE
- CTV CABLE TELEVISION
- o-o CHAIN LINK FENCE
- x-x BARBED WIRE FENCE
- o-o WOOD FENCE
- 1000 EXISTING MAJOR CONTOUR
- 1001 EXISTING MINOR CONTOUR
- 1000 PROPOSED MAJOR CONTOUR
- 1001 PROPOSED MINOR CONTOUR
- - - SILT FENCE / SILT SOCK
- - - TREE LINE



NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES
 H. SCALE: 1" = 20'



NOTES

1. MISSOURI ONE CALL WAS NOTIFIED FOR UTILITY LOCATIONS ON THE SUBJECT PROPERTY. ALL UTILITIES MAY OR MAY NOT HAVE BEEN FLAGGED. TOTH ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR THE OMISSION OR INACCURACY OF ANY EXISTING UTILITIES ON OR ADJACENT TO THE PROPERTY.
2. SOME UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING MAY HAVE BEEN DETERMINED BY A FIELD SURVEY FROM LOCATIONS MARKED ON THE GROUND BY VARIOUS UTILITY COMPANIES. SOME INFORMATION MAY HAVE BEEN DERIVED FROM COUNTY, CITY OR UTILITY COMPANY RECORDS. SOME UNDERGROUND UTILITIES HAVE BEEN SHOWN WHICH HAVE VISIBLE OUTLETS AT THE GROUND SURFACE. ALL UTILITIES SHOULD BE FIELD VERIFIED FOR EXACT LOCATIONS. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
3. NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. A TITLE COMMITMENT WAS NOT SUPPLIED TO TOTH AND ASSOCIATES, INC.
4. THE UTILITIES DEPICTED ON THIS SURVEY ARE THOSE LOCATED BY UTILITY COMPANY REPRESENTATIVES, DISCOVERED BY FIELD INSPECTION OR INFORMATION AVAILABLE FROM UTILITY COMPANIES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER ABANDONED OR IN SERVICE. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

CONTROL POINT TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1	471396.0552	1753396.2701	1352.08
2	471585.9002	1753761.4871	1352.18
3	471374.1802	1753725.8091	1354.78
1426	471420.5482	1753469.3451	1354.26

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

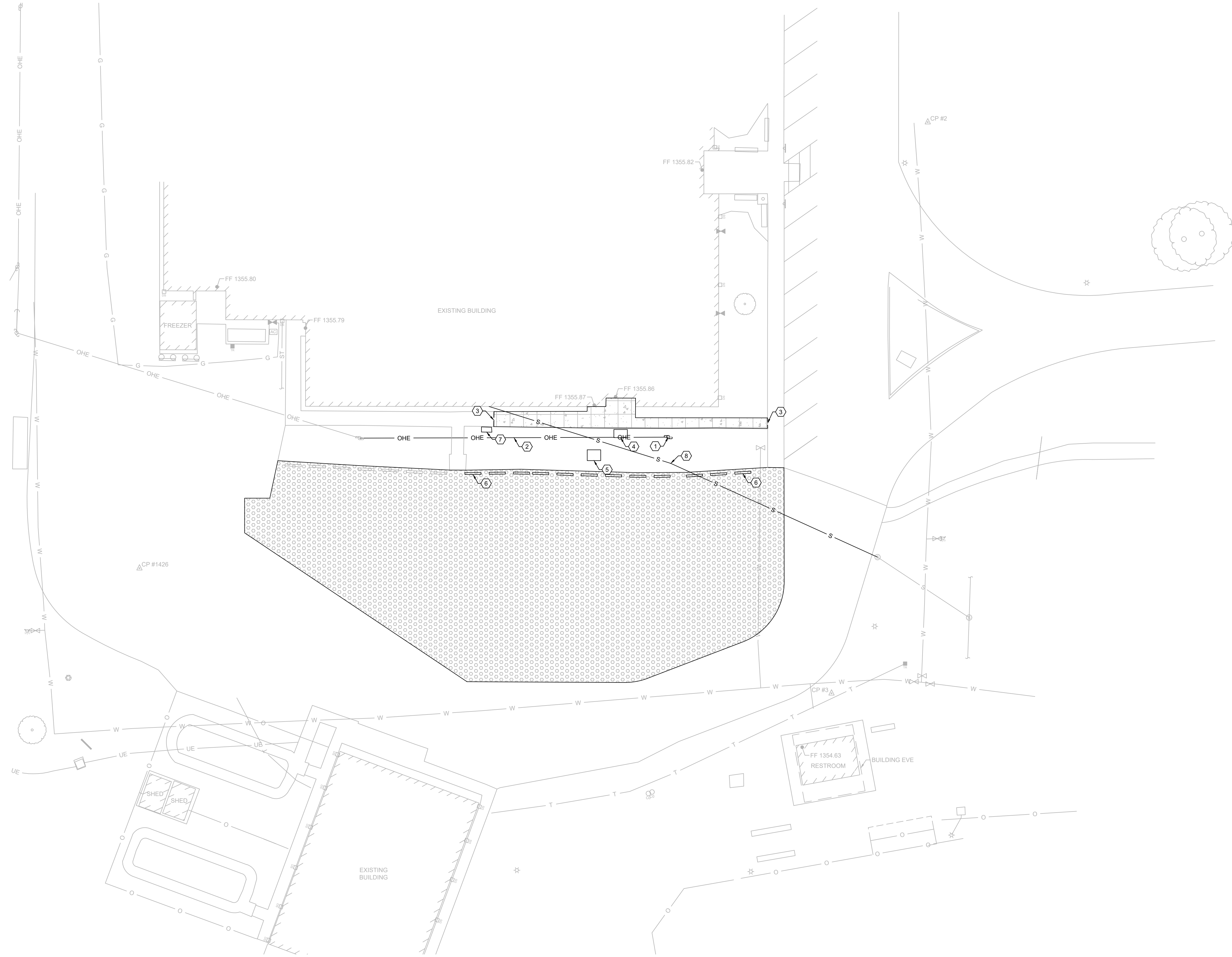
PROJECT NUMBER: 20-606
 DATE: AUGUST 16, 2021

1025 Rogers Avenue
 Cabool, Missouri 65689
 PROJECT ARCHITECT: JMT
 DRAWN BY: JMT
 CHECKED BY: MSM



15816 REPUBLIC ROAD
 Cabool, Missouri 65689
 PH: 417.885.0645 • F: 417.888.0857
 www.TOTHASSOCIATES.com

TOTH & ASSOCIATES, INC. # 20040452
 MISSOURI STATE CERTIFICATE OF AUTHORITY # 20040452

C-100 Cabool Middle School Tornado Safe Room TOPOGRAPHIC SURVEY

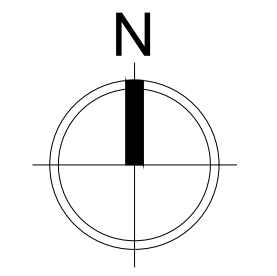


HATCH LEGEND:

-  = SIDEWALK AREA TO BE REMOVED.
-  = GRAVEL AREA TO BE REMOVED.

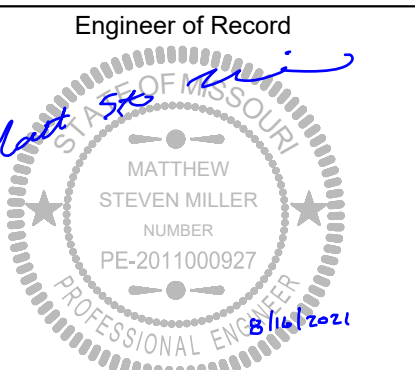
KEY NOTES:

- ① REMOVE EXISTING LIGHT POLE.
- ② REMOVE APPROXIMATELY 115 LF ± OVERHEAD ELECTRIC LINE.
- ③ SAWCUT LINE FOR SIDEWALK REMOVAL.
- ④ REMOVE CONCRETE BLOCK.
- ⑤ RELOCATE BIKE RACK AS SHOWN ON SITE PLAN, SHEET C-201.
- ⑥ RELOCATE CONCRETE WHEEL STOPS AS SHOWN ON SITE PLAN, SHEET C-201.
- ⑦ REMOVE CONCRETE PAD AND POST.
- ⑧ REMOVE APPROXIMATELY 155 LF ± 6" CLAY SANITARY SEWER LINE.



0 10 20
 NOTE: DRAWING REPRODUCTION
 AND SCALING MAY CHANGE THE
 INDICATED GRAPHIC SCALES
 H. SCALE: 1" = 20'



Engineer of Record

 MATTHEW STEVEN MILLER - ENGINEER
 MO# PE-2011000927
 COPYRIGHT 2021 ©
 THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC
 AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

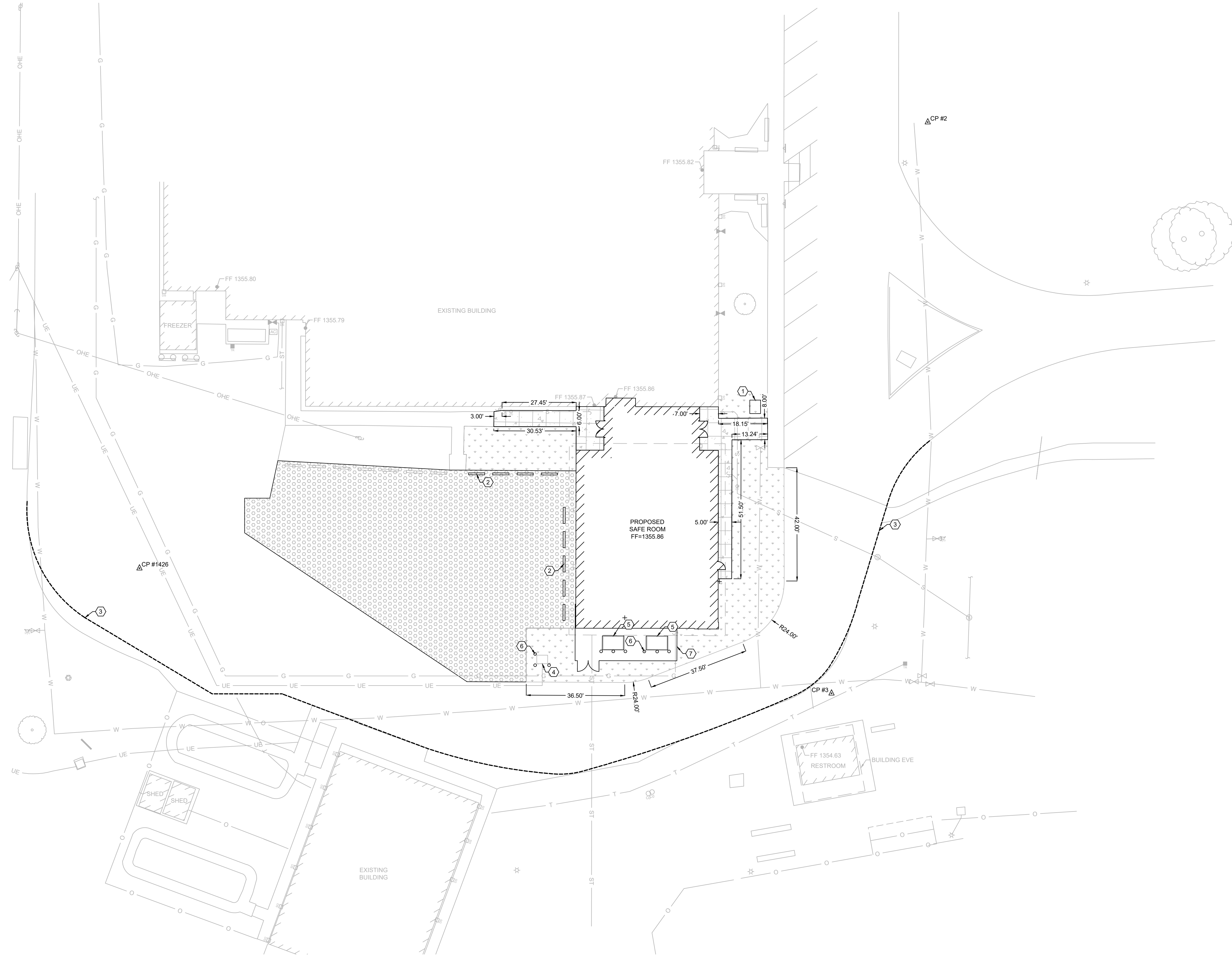
MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
PARAGON
ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

C-101 Cabool Middle School Tornado Safe Room
 DEMOLITION PLAN




PROJECT NUMBER: 20-606
 DATE: AUGUST 16, 2021
 PROJECT ARCHITECT: JAY
 DRAWN BY: JHT
 CHECKED BY: MSM



1550 E. REPUBLIC ROAD
 SPRINGFIELD, MISSOURI 65807
 PH: 417.885.0645 • F: 417.885.0957
 WWW.TOTHANDASSOCIATES.COM
 MISSOURI STATE CERTIFICATE OF AUTHORITY # 200404542



HATCH LEGEND:

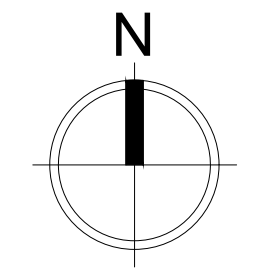
-  = CONCRETE SIDEWALK PER DETAIL SHEET C-701.
-  = LAWN RESTORATION. INSTALL TOPSOIL, SEED, & MULCH IN ACCORDANCE WITH PROJECT SPECIFICATIONS. EXTENTS SHOWN DO NOT NECESSARILY REFLECT FULL EXTENTS OF RESTORATION REQUIRED. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS. INSTALL EROSION CONTROL BLANKET ON ALL SLOPES 15% OR STEEPER.
-  = GRAVEL PAVEMENT PER DETAIL SHEET C-701.

KEY NOTES:

- 1) RELOCATE EXISTING BIKE RACK TO THIS LOCATION.
- 2) RELOCATE EXISTING CONCRETE WHEEL STOPS AS SHOWN. INSTALL PER DETAIL SHEET C-701.
- 3) INSTALL APPROXIMATELY 440 L.F. ± SILT SOCK PER DETAIL SHEET C-701.
- 4) INSTALL ELECTRIC TRANSFORMER PER MEP PLANS.
- 5) INSTALL HVAC EQUIPMENT PER MEP PLANS.
- 6) INSTALL PIPE BOLLARD PER DETAIL SHEET C-701, TYP.
- 7) INSTALL SCREEN WALL BID ALTERNATE, SEE ARCHITECTURAL PLANS FOR DETAILS.

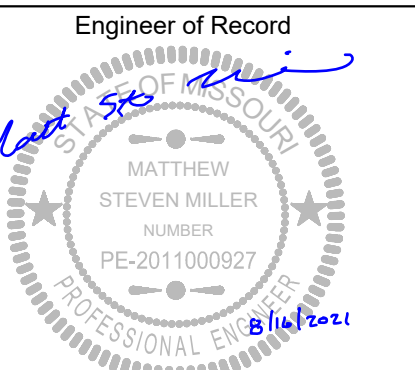
CONTROL POINT TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION
1	471396.0552	1753396.2701	1352.08
2	471585.9002	1753761.4871	1352.18
3	471374.1802	1753725.8091	1354.78
1426	471420.5482	1753469.3451	1354.26



0 10 20
 NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES
 H. SCALE: 1" = 20'



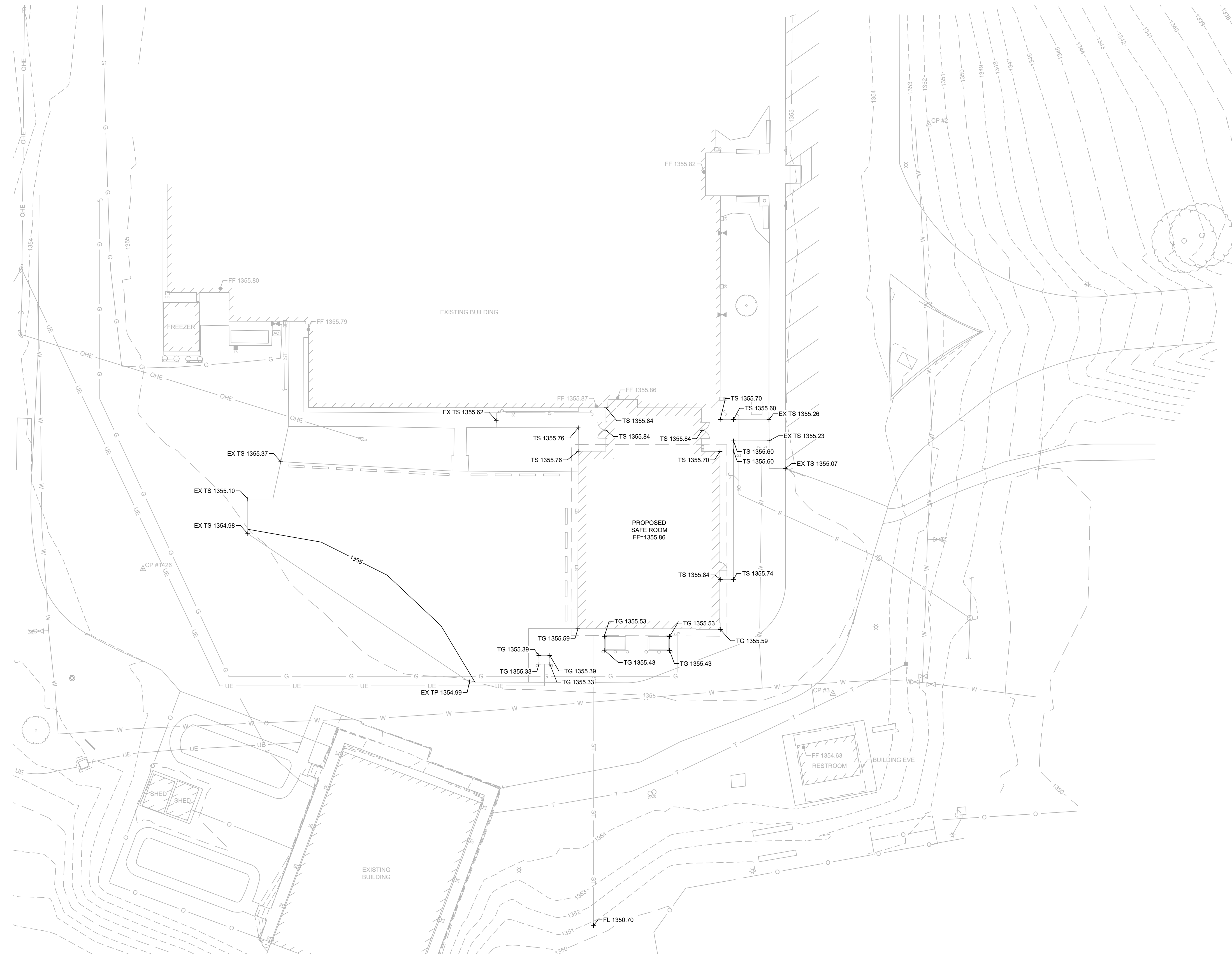
Engineer of Record

 MATTHEW STEVEN MILLER - ENGINEER
 MO# PE-2011000927
 COPYRIGHT 2021 ©
 THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
PARAGON
ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

C-201 Cabool Middle School Tornado Safe Room
SITE PLAN

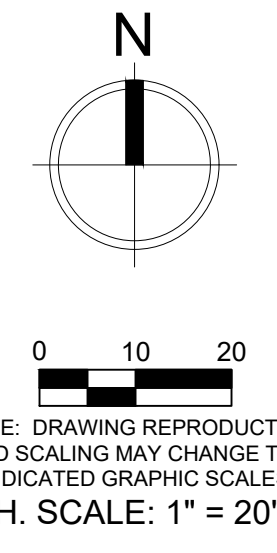
PROJECT NUMBER: **20-606**
 DATE: **FEBRUARY 20, 2021**
 1025 Rogers Avenue
 Cabool, Missouri 65609
 PROJECT ARCHITECT: **JAY**
 DRAWN BY: **JHT**
 CHECKED BY: **MSM**
 1550 E. REPUBLIC ROAD
 SPRINGFIELD, MO 65710
 PH: 417.885.0645 • F: 417.885.0657
 WWW.TOTHSOCIATES.COM
 TOTHSOCIATES, INC. # 200404542
 MISSOURI STATE CERTIFICATE OF AUTHORITY # 200404542





ABBREVIATIONS

BC	BACK OF CURB
CC	STANDARD CATCH CURB
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
EP	EDGE OF PAVEMENT
FES	FLARED END SECTION
FL	FLOW LINE
GT	GUTTER INVERT
GY	GUY WIRE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LF	LINEAR FEET
MC	MOUNTABLE CURB
PVC	POLYVINYL CHLORIDE PIPE
R/W	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
SC	SPILL CURB
TB	TOP OF BASE ROCK
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF SIDEWALK
TW	TOP OF WALL



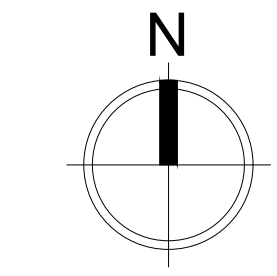
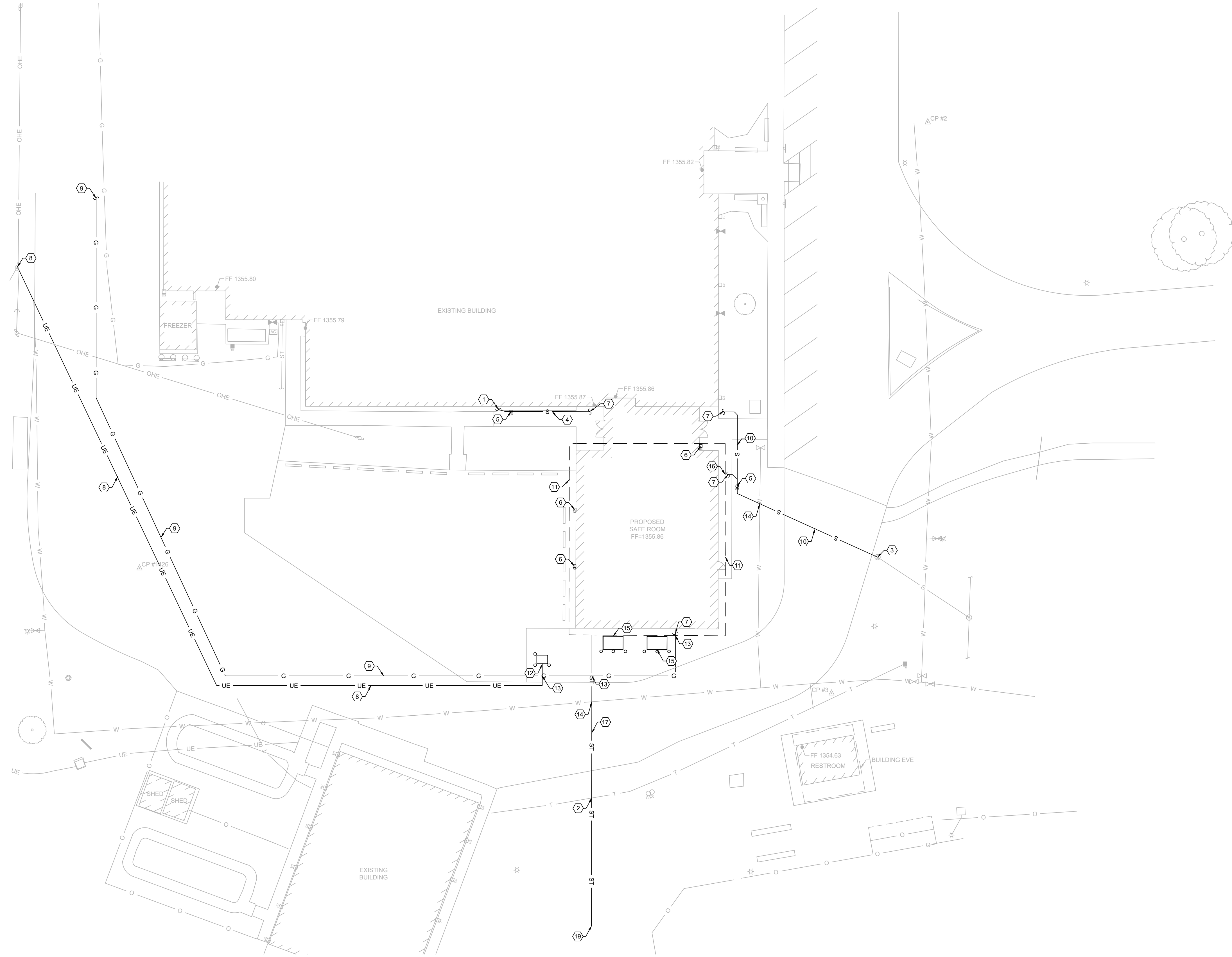
Engineer of Record

 MATTHEW STEVEN MILLER - ENGINEER
 MO# PE-2011000927
 COPYRIGHT 2021 ©
 THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
PARAGON
ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

TOTTH & ASSOCIATES

C-301 Cabool Middle School Tornado Safe Room GRADING PLAN
 PROJECT NUMBER: 20-606
 DATE: AUGUST 16, 2021
 PROJECT ARCHITECT: JAY
 DRAWN BY: JHT
 CHECKED BY: MSM
 1025 Rogers Avenue
 Cabool, Missouri 65609
 PH: 417.888.0645 • F: 417.888.0957
 www.totthassociates.com
 MISSOURI ONE CALL SYSTEM
 Call or Click Before You Dig!
 1-800-DIG-RITE or 811
 mo1call.com



0 10 20
 NOTE: DRAWING REPRODUCTION
 AND SCALING MAY CHANGE THE
 INDICATED GRAPHIC SCALES
 H. SCALE: 1" = 20'



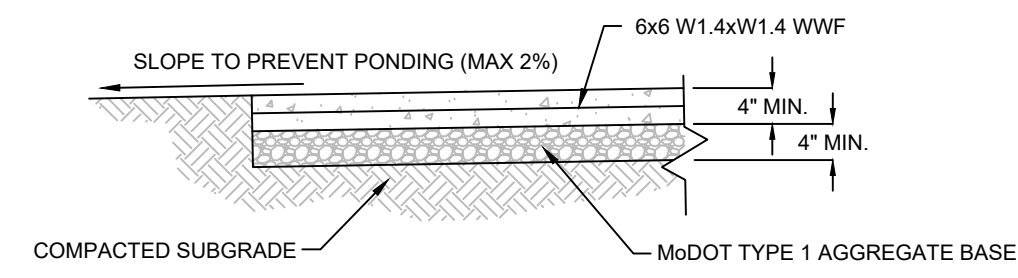
- KEY NOTES:**
- ① PRIOR TO ANY SEWER CONSTRUCTION, CONTRACTOR TO EXCAVATE TO DETERMINE EXISTING FLOW LINE OF SANITARY SEWER SERVICE LEAVING THE BUILDING AND PROVIDE INFORMATION TO ENGINEER TO DETERMINE EXACT ROUTE FOR NEW SANITARY SEWER SERVICE.
 - ② PROPOSED TELEPHONE LINE CROSSING. CONTRACTOR TO MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN UTILITIES.
 - ③ CONNECT NEW SANITARY SEWER LINE TO EXISTING MANHOLE PER DETAIL SHEET C-701. USE EXISTING INVERT IF POSSIBLE. EX RIM = 1354.76, FL IN= 1349.46, EX FL OUT= 1349.26.
 - ④ INSTALL APPROXIMATELY 35 LF ± 6" PVC SCH 40 SANITARY SEWER LINE PER PIPE INSTALLATION DETAIL SHEET C-701.
 - ⑤ INSTALL CLEAN-OUT PER DETAIL SHEET C-701.
 - ⑥ DOWNSPOUT TO DISCHARGE TO CONCRETE SPLASH BLOCK.
 - ⑦ SEE MEP PLANS FOR CONTINUATION.
 - ⑧ INSTALL UNDERGROUND ELECTRIC LINE PER MEP PLANS.
 - ⑨ INSTALL GAS LINE PER MEP PLANS.
 - ⑩ INSTALL APPROXIMATELY 95 LF ± 6" PVC SCH 40 SANITARY SEWER LINE PER PIPE INSTALLATION DETAIL SHEET C-701.
 - ⑪ INSTALL APPROXIMATELY 260 LF ± 4" SDR 35 PERFORATED PIPE FOR FOUNDATION DRAIN. SEE STRUCTURAL DETAILS.
 - ⑫ INSTALL ELECTRIC TRANSFORMER PER MEP PLANS.
 - ⑬ PROPOSED GAS LINE CROSSING. CONTRACTOR TO MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN UTILITIES.
 - ⑭ PROPOSED WATER LINE CROSSING. CONTRACTOR TO MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN UTILITIES.
 - ⑮ INSTALL HVAC EQUIPMENT PER MEP PLANS.
 - ⑯ PROPOSED SEWER LINE CROSSING. CONTRACTOR TO MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN UTILITIES.
 - ⑰ INSTALL APPROXIMATELY 110 LF ± 4" HDPE PIPE PER PIPE INSTALLATION DETAIL SHEET C-701.
 - ⑱ PROPOSED TELEPHONE LINE CROSSING. CONTRACTOR TO MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN UTILITIES.
 - ⑲ INSTALL CONCRETE HEADWALL PER DETAIL SHEET C-701. FL 1350.70±.

Engineer of Record
 MATTHEW STEVEN MILLER - ENGINEER
 MO# PE-2011000927
 COPYRIGHT 2021 ©
 THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC
 AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
PARAGON
ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

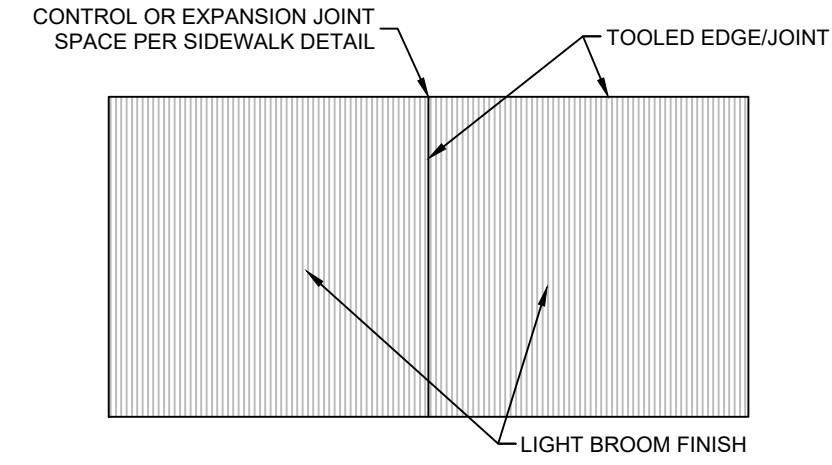
MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
ATOTH
& ASSOCIATES

C-401 Cabool Middle School Tornado Safe Room
UTILITY PLAN
 PROJECT NUMBER: 20-606
 DATE: AUGUST 16, 2021
 1025 Rogers Avenue
 Cabool, Missouri 65609
 PROJECT ARCHITECT: JAY
 DRAWN BY: JHT
 CHECKED BY: MSM
 1501 E. PUBLIC ROAD
 SPRINGFIELD, MO 65704
 PH: 417.885.0045 • F: 417.885.0057
 WWW.ATOTHANDASSOCIATES.COM
 MISSOURI STATE CERTIFICATE OF AUTHORITY # 20040422



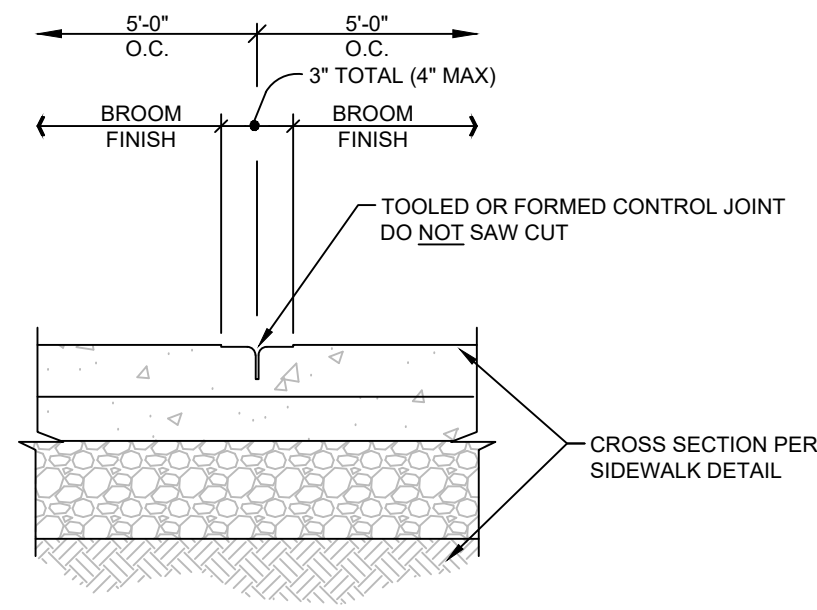
- NOTES:**
1. PROVIDE CONTROL JOINTS @ 5' O.C. MAX. OR WIDTH OF SIDEWALK. SEE JOINT DETAIL.
 2. PROVIDE EXPANSION JOINTS @ 20' O.C. MAX. & AS INDICATED ON SITE PLAN.
 3. WHERE WALK ABUTS ANOTHER WALK, CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES, PROVIDE 1/2" EXP. JOINT W/ FIBER BOARD AND SELF-LEVELING SEALANT.
 4. KEY ALL CONSTRUCTION JOINTS.
 5. PROVIDE NON-SLIP LIGHT BROOM FINISH.
 6. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE 2%. MAXIMUM SLOPE OF SIDEWALK IN DIRECTION OF TRAVEL SHALL BE 5%.

SIDEWALK DETAIL
SCALE: NONE

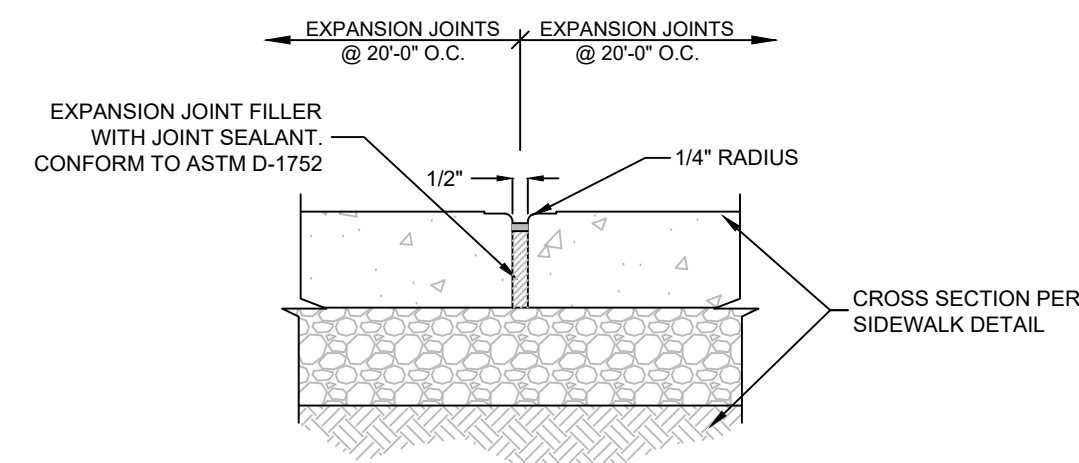


- NOTES:**
1. CONTRACTOR SHALL TOOL EDGES AND JOINTS AS SHOWN THEN LIGHTLY BROOM FINISH ENTIRE SIDEWALK SURFACE.

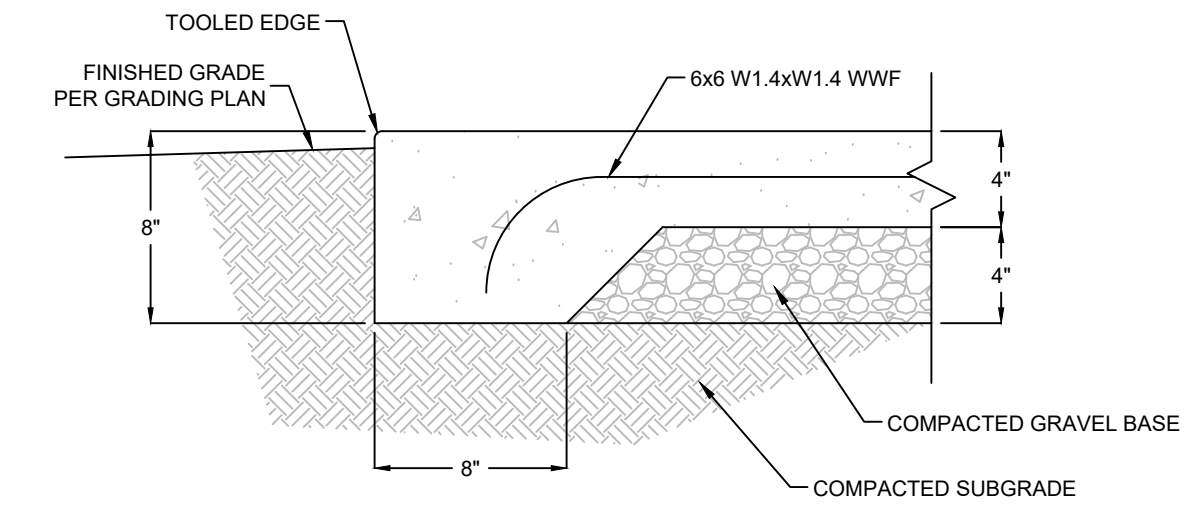
SIDEWALK FINISH PLAN
SCALE: NONE



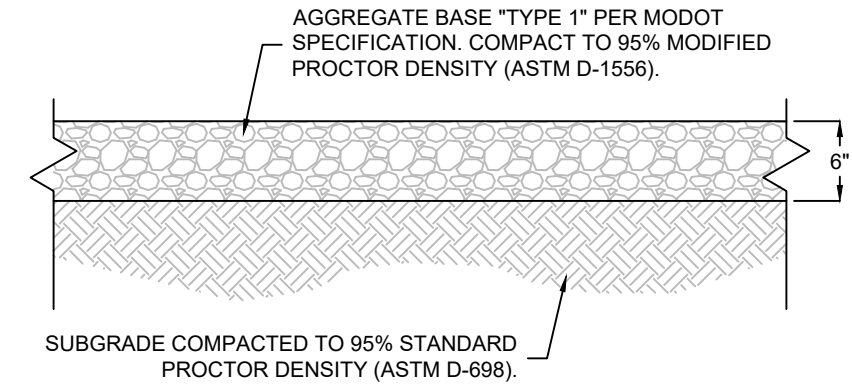
SIDEWALK CONTROL JOINT
SCALE: NONE



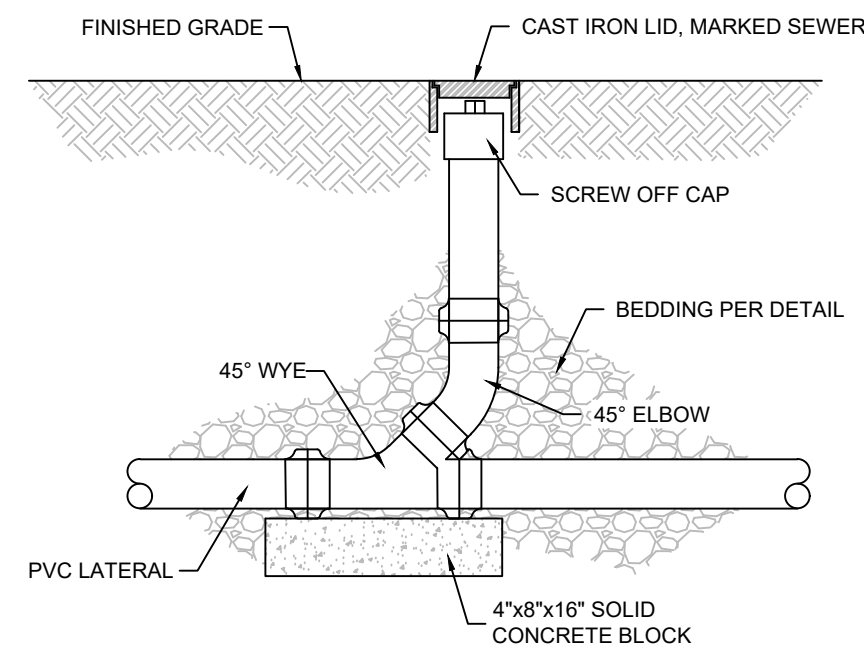
SIDEWALK EXPANSION JOINT
SCALE: NONE



CONCRETE STOOP/WALK EDGE
SCALE: NONE

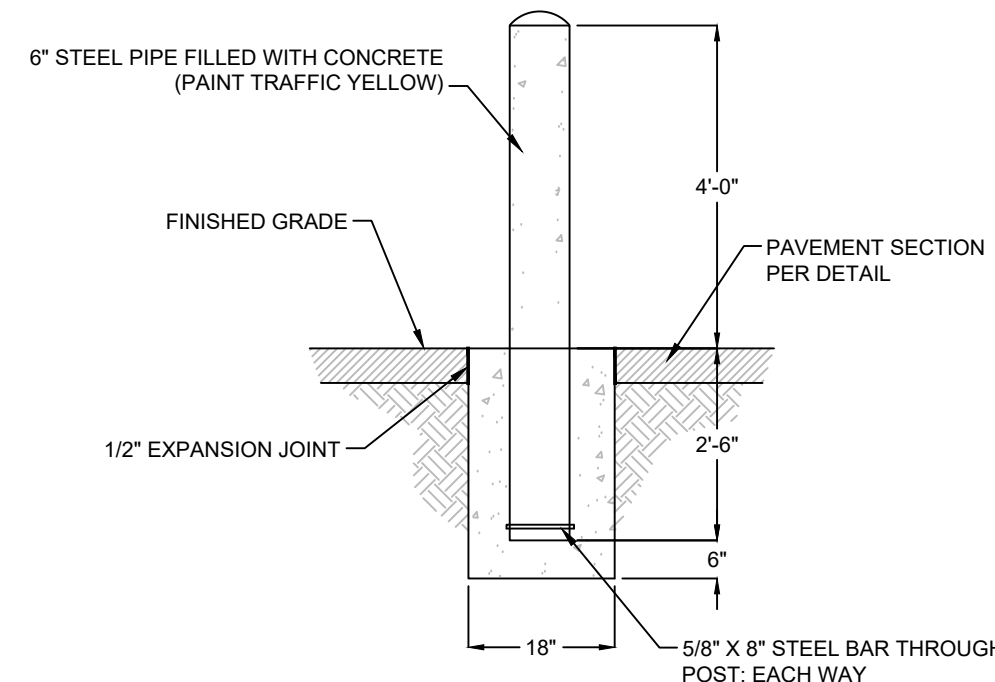


GRAVEL PAVEMENT DETAIL
SCALE: NONE

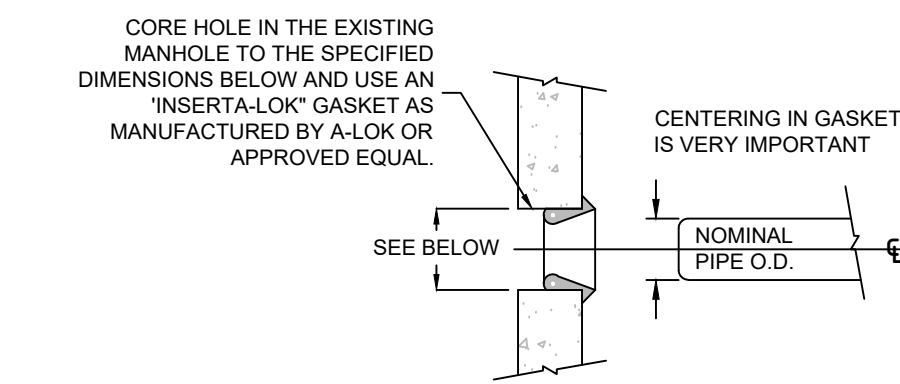


- NOTES:**
1. SIZE AND MATERIAL OF FITTINGS AND PIPE TO MATCH THAT OF LATERAL
 2. INSTALL CLEANOUTS AT ALL BENDS AND AT MAXIMUM 50' SPACING

SEWER CLEANOUT DETAIL
SCALE: NONE

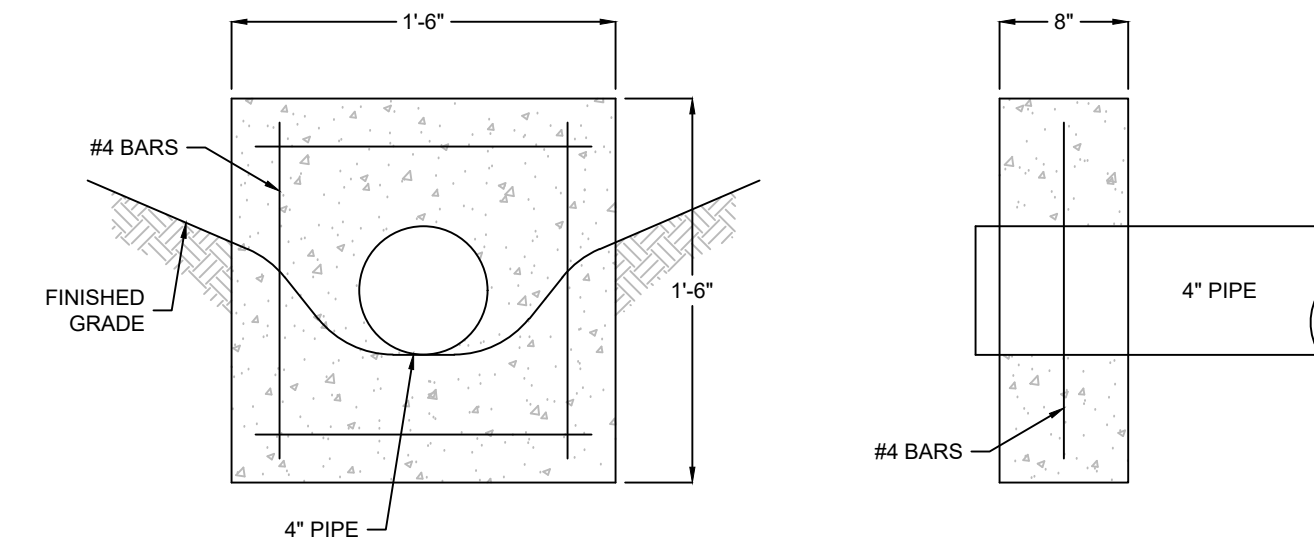


PIPE BOLLARD
SCALE: NONE

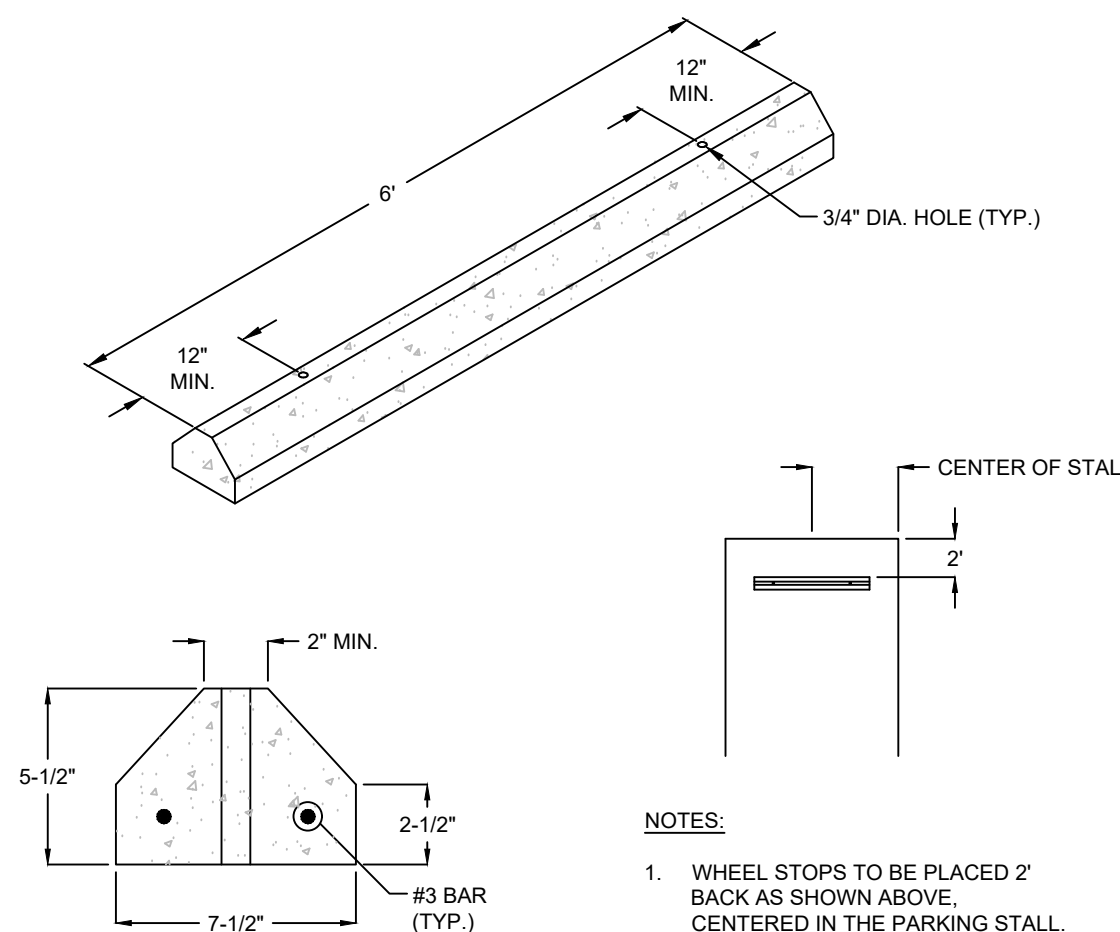


- CORE HOLE IN THE EXISTING MANHOLE TO THE SPECIFIED DIMENSIONS BELOW AND USE AN "INSERTA-LOK" GASKET AS MANUFACTURED BY A-LOK OR APPROVED EQUAL.**
- CORE HOLE EXAMPLES:**
1. BEVEL PIPE WITH GRINDER
 2. THEN LUBE PIPE
 3. THEN LUBE "INSERTA-LOK"
 4. THEN CENTER IN GASKET

CONNECTION TO EXISTING MANHOLE
SCALE: NONE

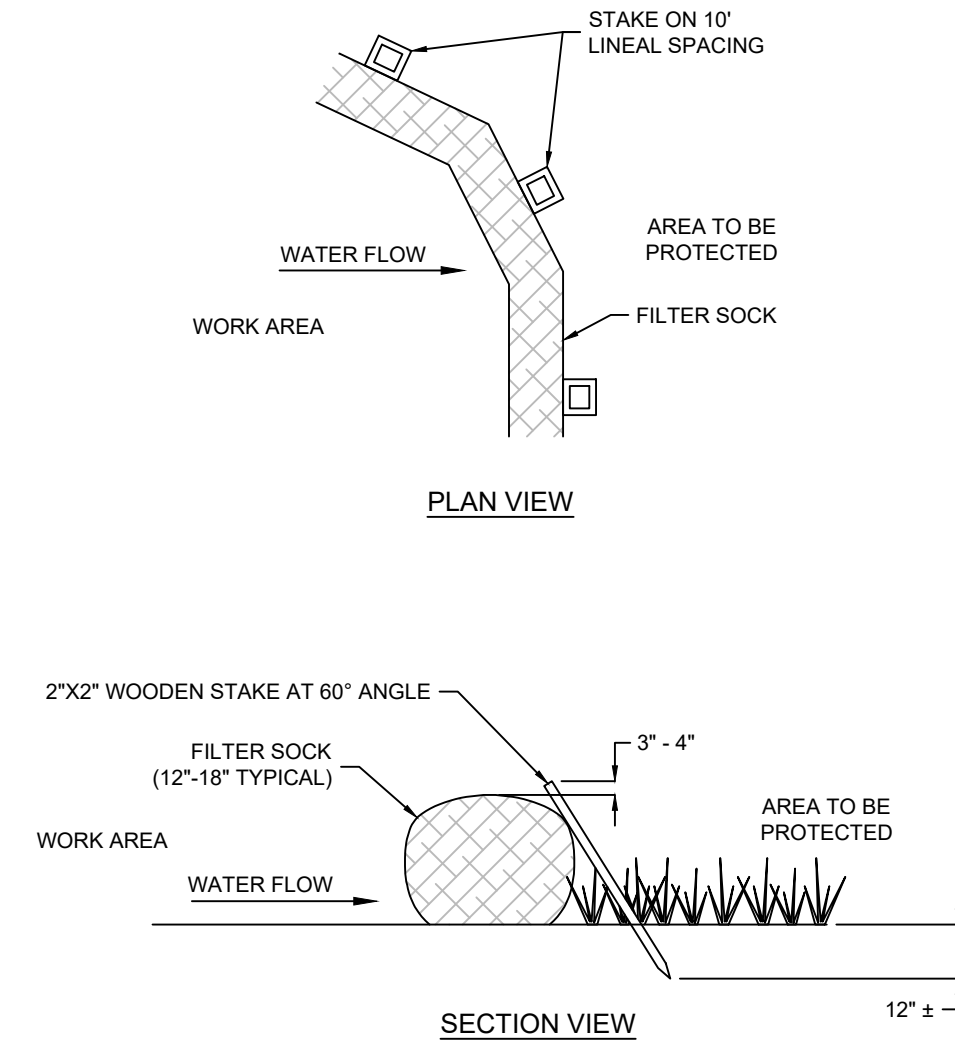


CONCRETE HEADWALL DETAIL
SCALE: NONE



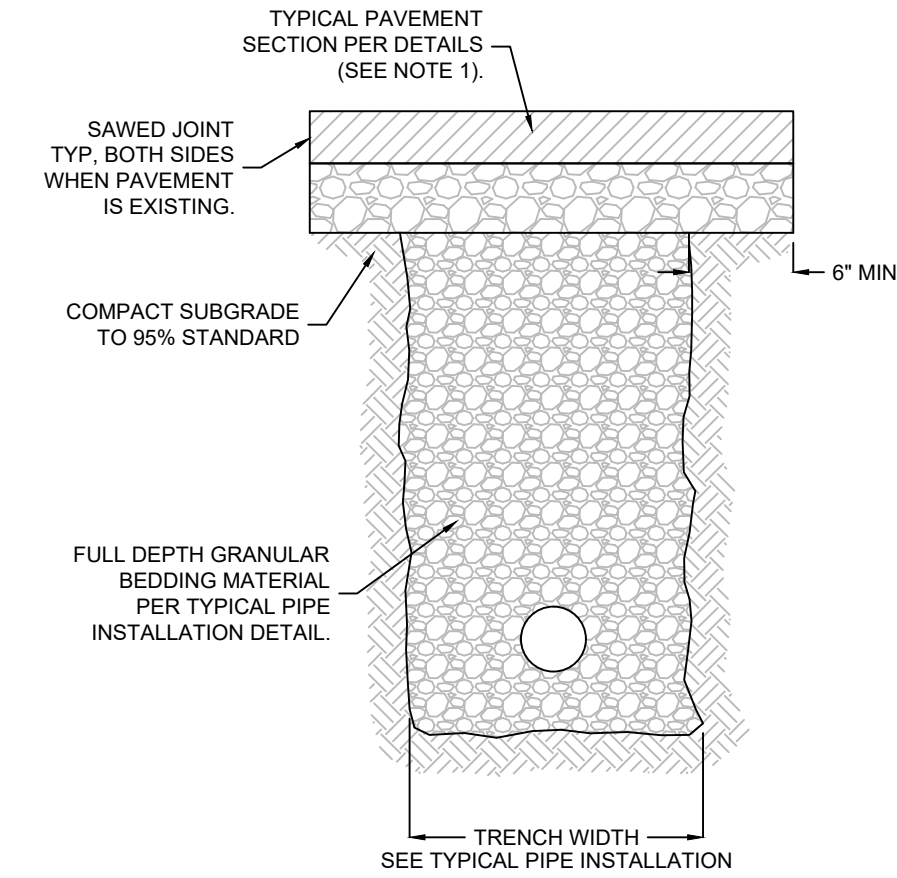
- NOTES:**
1. WHEEL STOPS TO BE PLACED 2' BACK AS SHOWN ABOVE, CENTERED IN THE PARKING STALL.
 2. CONCRETE TO BE 3,000 P.S.I. WITH FIBER MESH REINFORCING.

CONCRETE WHEEL STOP DETAIL
SCALE: NONE



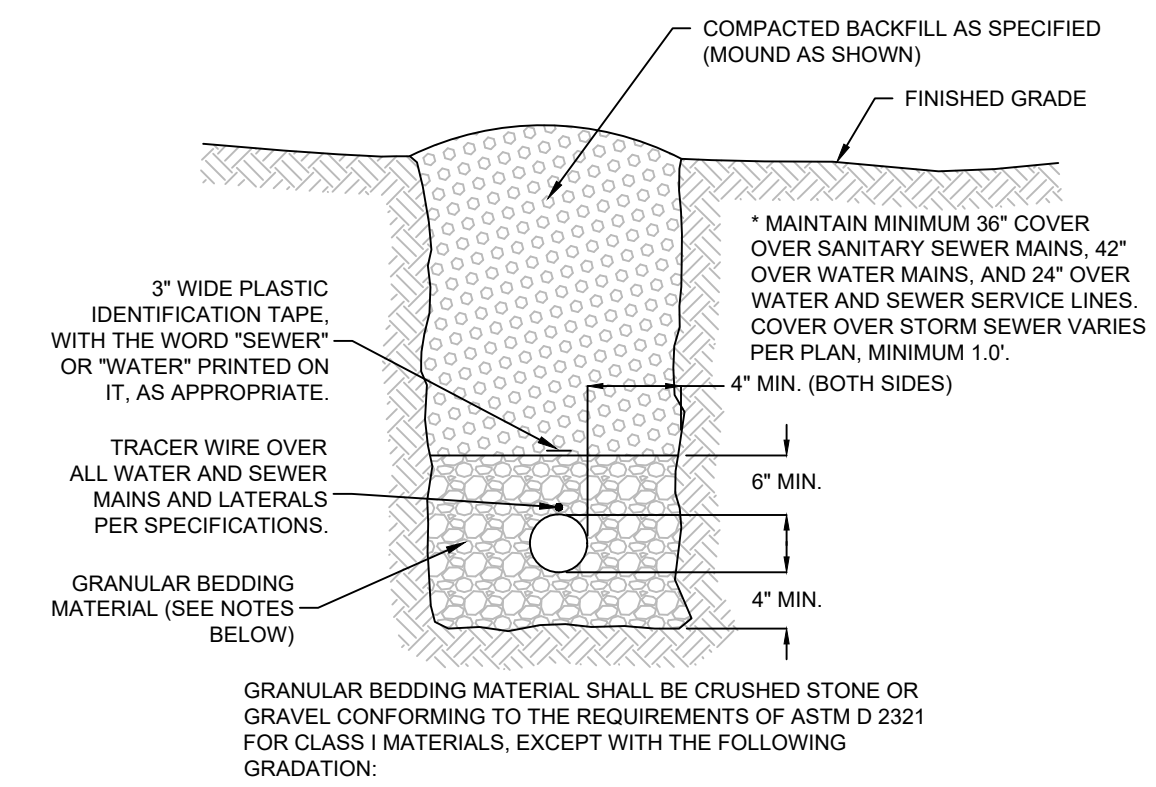
- NOTES:**
1. ALL MATERIAL TO MEET MANUFACTURER'S REQUIREMENTS.
 2. FILTER SOCK DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER ENGINEER.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST FILTER SOCK DETAIL
SCALE: NONE



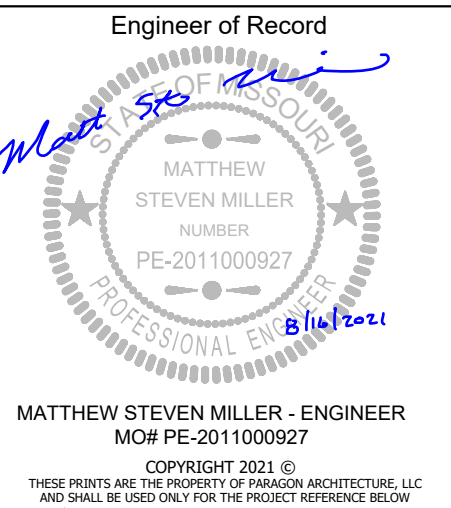
- NOTES:**
1. INCREASE ASPHALT PAVEMENT SECTION THICKNESS BY 1.5 TIMES THE RECOMMENDED PAVEMENT THICKNESS WHERE PIPES ARE TO BE INSTALLED UNDER EXISTING PAVEMENT.

PIPE INSTALLATION UNDER PAVEMENT
SCALE: NONE



SIEVE SIZE	% PASSING
1"	100
1/2"	55-60
NO. 4	8-40
NO. 10	0-15
NO. 200	0-4

TYPICAL PIPE INSTALLATION DETAIL
SCALE: NONE



Matthew Steven Miller - Engineer
MO# PE-2011000927

PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

C-701 Cabool Middle School Tornado Safe Room

PROJECT NUMBER: 20-606
DATE: AUGUST 16, 2021



15816 REBEL PUBLIC ROAD
Cabool, Missouri 65689
PH: 417.888.0645 • F: 417.888.0657
WWW.TOTHANDASSOCIATES.COM

PROJECT ARCHITECT: JAY
DRAWN BY: JHT
CHECKED BY: MSM

MISSOURI STATE CERTIFICATE OF AUTHORITY # 200406452

GENERAL NOTES

- 1. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK, INCLUDING SAFETY OF PROPERTY AND PERSONS. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT JUST DURING NORMAL WORKING HOURS.

CONCRETE NOTES

- 1. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF THE REINFORCED CONCRETE ELEMENTS. SHOP DRAWINGS SHALL INCLUDE LAYOUT AND DIMENSIONS OF REINFORCING INCLUDING ANY OPENINGS, CONVENTIONAL REINFORCEMENT DETAILS, CONNECTION DETAILS, PROCEDURES AND SEQUENCES ETC.

Table with 4 columns: USE, 28-DAY fc, SLUMP, MAX W/C, AIR. Rows include FOOTING, FOUNDATION WALLS, INTERIOR SOG, EXTERIOR SOG, ELEVATED SLAB, DRILLED PIERS, GRADE BEAMS.

FOUNDATION NOTES

- 1. REFERENCE THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, INC DATED JANUARY 12, 2021 FOR ADDITIONAL SITE DEVELOPMENT REQUIREMENTS NOT INCLUDED IN THESE NOTES. THE REPORT SHALL BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS.

EXISTING CONDITIONS AND DIMENSIONS NOTE

- 1. THIS PROJECT CONSISTS OF ADDITIONS AND MODIFICATIONS TO EXISTING FACILITIES. INFORMATION DEPICTED ON THE DRAWINGS WAS TAKEN FROM ORIGINAL DESIGN DRAWINGS, WHICH WERE ASSUMED TO BE AS SHOWN ON THE DRAWINGS.

SLAB ON GRADE GENERAL NOTES:

- 1. REINFORCE SLAB ON GRADE WITH WWR 6X6 W2.9XW2.9 (IN SHEETS). LOCATE WWR IN TOP THIRD OF SLAB. PROVIDE BOLSTERS, CHAIRS, OR OTHER MEANS APPROVED IN WRITING BY THE ENGINEER TO PROPERLY LOCATE REINFORCING. CHAIR SPACING SHALL NOT EXCEED 2'-0" OC.

PRECAST CONCRETE NOTES

- 1. DESIGN OF PRECAST ELEMENTS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, CALCULATIONS, AND SUPPORT REACTIONS OF PRECAST ELEMENTS AND THEIR CONNECTIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.

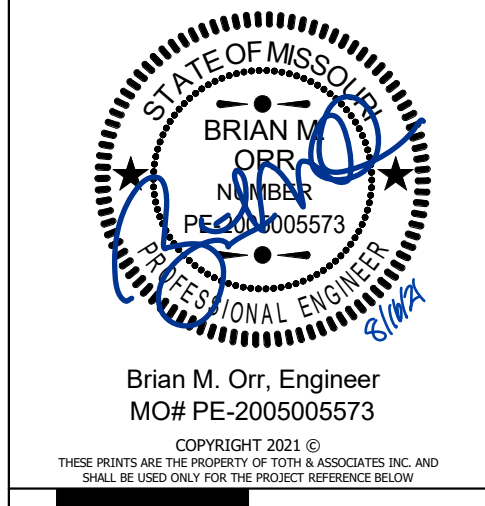
STRUCTURAL STEEL NOTES

- 1. FOR BOLTED CONNECTIONS OF BEAMS AND COLUMNS USE A325 OR A490 BOLTS, SIZE AS REQUIRED. ALL BOLTS FOR SLIP CRITICAL CONNECTIONS SHALL BE LOAD INDICATOR BOLTS OR SHALL BE EQUIPPED WITH LOAD INDICATOR BOLTS WHICH PROVIDE AN EASY MEANS OF VISUALLY VERIFYING PROPER BOLT TENSION.

Table: STRUCTURAL STEEL DESIGN PROPERTIES. Columns: W AND W/T-SHAPES, ANGLES AND C-SHAPES, PLATES AND BARS, STEEL TUBING, STEEL PIPE, HEADED STUD ANCHORS. Values: ASTM A992 GRADE 50, ASTM A36, ASTM A36, ASTM A500 GRADE C Fy = 50 ksi, ASTM A53 GRADE B Fy = 42 ksi, ASTM A108.

COLD FORMED STEEL FRAMING NOTES

- 1. DESIGN OF COLD-FORMED STEEL STRUCTURAL LOAD BEARING AND NON-LOAD BEARING MEMBERS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.



Brian M. Orr, Engineer
MO# PE-2005005573
Copyright 2023 ©
THIS PROJECT IS THE PROPERTY OF TERRACON, INC. AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417 885 0002
www.paragonarchitecture.com

Table: REVISION SCHEDULE. Columns: No., Date, Description. Includes entries for MISSILE IMPACT CRITERIA.

Table: CODE STUDY. Columns: CODE STUDY, CABOO ELEMENTARY SAFE ROOM, FEMA SAFEROOM. Rows include DESIGN CODE, OCCUPANCY CATEGORY, ROOF DEAD LOADS, LIVE LOADS, WIND LOADS, COMPONENTS AND CLADDING WIND PRESSURES, SEISMIC LOADS, MISSILE IMPACT CRITERIA.

* SHALL NOT BE USED TO REDUCE THE EFFECTS OF WIND UPLIFT
** AREA REDUCTION NOT ALLOWED

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD*	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	-
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X	-	-
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	-	X	AISC 360, SECTION M2.5	1704.3.3
b. SLIP-CRITICAL CONNECTIONS.	X	X	-	-
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	ASTM A 6 OR ASTM A 568	1708.4
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	-	-	ASTM A 6 OR ASTM A 568	-
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	AISC 360, SECTION A3.5	-
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	-	-	-
5. INSPECTION OF WELDING:				
a. STRUCTURAL STEEL:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	-	-	-
2) MULTIPASS FILLET WELDS.	X	-	AWS D1.1	1704.3.1
3) SINGLE-PASS FILLET WELDS > 5/16"	X	-	-	-
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	-	X	-	-
5) FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.1	-
b. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	-	X	-	-
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	-	AWS D1.4 ACI 318: 3.5.2	-
3) SHEAR REINFORCEMENT.	X	-	-	-
4) OTHER REINFORCING STEEL.	-	X	-	-
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:		X		
a. DETAILS SUCH AS BRACING AND STIFFENING.	-	-	-	1704.3.2
b. MEMBER LOCATIONS.	-	-	-	-
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	-	-	-

FOR SI: 1 INCH = 25.4 MM
a. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD*	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.	-	-	AWS D1.4 ACI 318: 3.5.2	-
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	-	-	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	-	ACI 318: 18.20 ACI 318: 18.18.4	-
9. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH. 16	-
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 6.2	-
11. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	-

FOR SI: 1 INCH = 25.4 MM
a. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

REQUIRED VERIFICATION AND INSPECTION OF SOILS			
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X	
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X	

SPECIAL INSPECTION OF MASONRY CONSTRUCTION LEVEL 1					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402*	ACI 530.1/ASCE 6/TMS 602*
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE.					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	-	X	-	-	ART. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.	-	X	-	-	ART. 3.3B
c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	-	ART. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE.	-	X	-	-	ART. 3.6B
e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	-	ART. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	X	-	-	ART. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	-	X	-	SEC. 1.2.2(e), 2.1.4, 3.1.6	-
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	-	X	-	SEC. 1.13	ART. 2.4, 3.4
d. WELDING OF REINFORCING BARS	X	-	-	SEC. 2.1.10.7.2, 3.3.3.4(b)	-
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	-	X	SEC. 2104.3, 2104.4	-	ART. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	-	X	-	-	ART.3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.	-	X	-	-	ART. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	SEC. 1.13	ART. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	-	X	-	-	ART. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.	-	X	-	-	ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	-	-	-	ART. 3.5
a. GROUTING OF PRESTRESSING BONDED TENDONS.	X	-	-	-	ART. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	-	SEC. 2105.2.2, 2105.3	-	ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	-	X	-	-	ART. 1.5

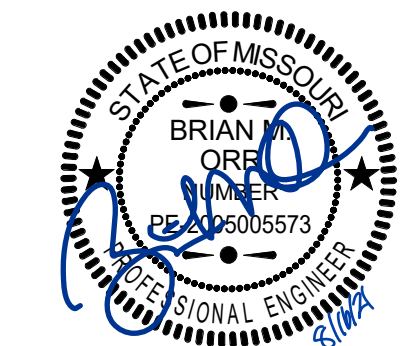
FOR SI: *C = (F - 32) x 1.8
a. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CHAPTER 35.

SPECIAL INSPECTION OF MASONRY CONSTRUCTION LEVEL 2 (OCCUPANCY IV)					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402*	ACI 530.1/ASCE 6/TMS 602*
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE.					
a. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	-	X	-	-	ART. 2.6A
b. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.	-	X	-	-	ART. 3.3B
c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	SEC. 1.13	ART. 3.4, 3.6A
d. GROUT SPACE PRIOR TO GROUTING.	X	-	-	-	ART. 3.2D
e. PLACEMENT OF GROUT.	X	-	-	-	ART. 3.5
f. PLACEMENT OF PRESTRESSING GROUT.	X	-	-	-	ART. 3.6C
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	X	-	-	ART. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	X	-	-	SEC. 1.2.2(e), 2.1.4, 3.1.6	-
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	-	X	-	SEC. 1.13	ART. 2.4, 3.4
d. WELDING OF REINFORCING BARS.	X	-	-	SEC. 2.1.10.7.2, 3.3.3.4(b)	-
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	-	X	SEC. 2104.3, 2104.4	-	ART. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	X	-	-	-	ART. 3.6B
3. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	-	SEC. 2105.2.2, 2105.3	-	ART. 1.4
4. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	-	X	-	-	ART. 1.5

FOR SI: *C = (F - 32) x 1.8
a. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CHAPTER 35.

SPECIAL STRUCTURAL INSPECTION NOTES

- SPECIAL INSPECTIONS SHALL BE IN CONFORMANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE REFERENCED IN THE TABLE BELOW.
- PERIODIC INSPECTION IS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTIONS BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
- CONTINUOUS INSPECTIONS IS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- INSPECTION REPORTS SHALL BE PREPARED ACCORDING TO IBC CHAPTER 17, IBC SECTION 109 SHALL BE REFERENCED FOR GENERAL REQUIREMENTS REGARDING INSPECTIONS.
- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A WIND OR SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT SHALL INCLUDE THE FOLLOWING:
A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED ON THE STATEMENT OF SPECIAL INSPECTIONS.
B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTORS ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSONS EXERCISING SUCH CONTROL AND THEIR POSITION IN THE ORGANIZATION.
E. SPECIAL INSPECTORS SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE OWNER, ENGINEER OF RECORD, CONTRACTOR, BUILDING OFFICIAL, AND OTHER DESIGNATED PERSONS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND BUILDING OFFICIAL. SPECIAL INSPECTORS SHALL SUBMIT FINAL REPORTS DOCUMENTING SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES.



Brian M. Orr, Engineer
MO# PE-2005005573
Copyright 2021 ©
THESE PRINTS ARE THE PROPERTY OF TOOTH & ASSOCIATES, INC. AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

PARAGON
ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
REVISION SCHEDULE
Tooth and Associates, Inc.
1550 E. Republic Rd.
Springfield, MO, 65804
417.885.0045

TOOTH
& ASSOCIATES
Structural Engineering

No.	Date	Description

S0.2 Cabool Middle School Saferoom
SPECIAL INSPECTIONS
PROJECT NUMBER: 20-606
DATE: 08/16/2021
PROJECT DESCRIPTION: Cabool, MO 65689
DRAWN BY: PROJECT ARCHITECT:
CHECKED BY: Certificate of Authority # 2004004928



Brian M. Orr, Engineer
MO# PE-200505573

COPYRIGHT 2021 ©
THESE PRINTS ARE THE PROPERTY OF TOOTH & ASSOCIATES, INC. AND
SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

PARAGON ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

REVISION SCHEDULE
Tooth and Associates, Inc.
1550 E. Republic Rd.
Springfield, MO 65804
417.885.0045



No.	Date	Description

PROJECT DESCRIPTION:
S1.1 Cabool Middle School Saferoom
FOUNDATION PLAN

PROJECT NUMBER:
20-606

1025 Rogers Avenue
Cabool, MO 65689

PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:

DATE:
08/16/2021

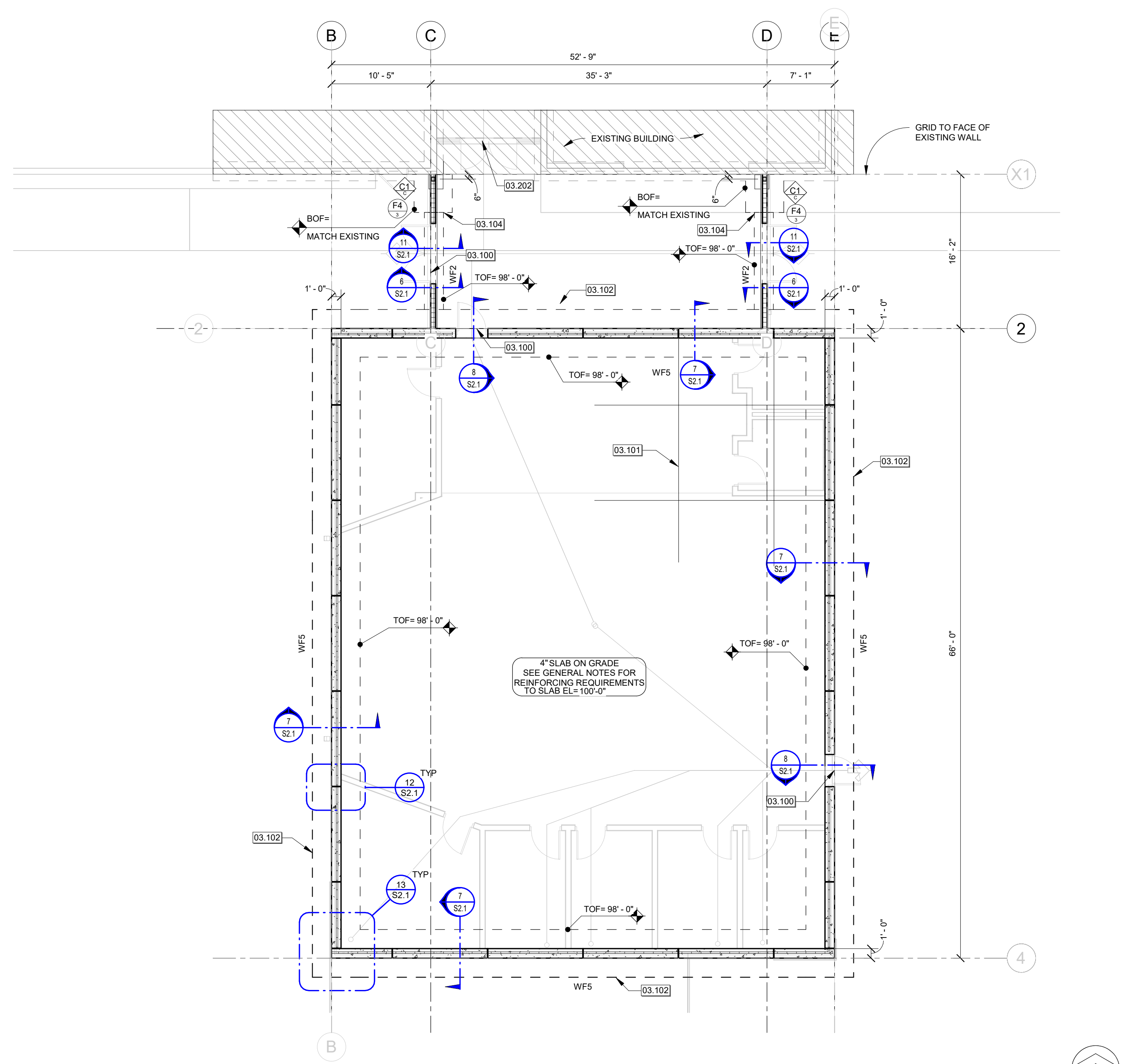
- FOUNDATION PLAN NOTES**
- TOP OF SLAB ELEVATION= 100'-0" = CIVIL ELEVATION= 1365.36'
 - PERIMETER INSULATION SHALL BE AS REQUIRED BY ARCHITECTURAL DRAWINGS.
 - NOT ALL PENETRATIONS ARE SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE ADDITIONAL SLAB AND FOUNDATION OPENINGS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. COORDINATE NEW AND EXISTING UTILITIES SUCH THAT THEY PASS ABOVE OR BELOW BUILDING FOOTINGS WITH A MINIMUM OF 6 INCHES OF CLEARANCE.
 - SLAB FINISH REQUIREMENTS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 - COORDINATE ALL ELEVATIONS WITH CIVIL AND ARCH. DRAWINGS, REPORT ANY DISCREPANCIES TO ARCH.
 - ALL UNCONTROLLED FILL SHALL BE REMOVED UNDER THE BUILDING FOOTPRINT. REPLACE SOIL UNDER BUILDING FOUNDATIONS WITH APPROVED BACKFILL MATERIAL AS DEFINED BY GEOTECHNICAL ENGINEERING REPORT. AREAS WITH REMOVED UNCONTROLLED FILL UNDER NEW BUILDING SLAB SHALL BE BACKFILLED WITH MATERIAL MEETING THE REQUIREMENTS OF THE LVCL AS SPECIFIED IN THE GEOTECHNICAL ENGINEERING REPORT. THE TOP 6" OF MATERIAL UNDER ENTIRE SLAB SHALL MEET THE FREE DRAINING GRANULAR MATERIAL REQUIREMENTS AS SPECIFIED IN THE SLAB ON GRADE GENERAL NOTES.
 - PROVIDE 2'-0" LOW VOLUME CHANGE LAYER UNDER ALL SLABS ON GRADE. REFERENCE GENERAL NOTES AND GEOTECHNICAL ENGINEERING REPORT FOR REQUIREMENTS.
 - REFERENCE FRONT END SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES. THE ESTIMATED ALLOWANCES DO NOT INCLUDE WHAT IS REQUIRED TO CONSTRUCT THE BUILDING PAD AND LOW VOLUME CHANGE LAYER. THIS SHALL BE INCLUDED AS PART OF THE BASE BID.
 - REFERENCE TYPICAL SLAB REINFORCING DETAIL FOR SUPPLEMENTAL REINFORCING AT RE-ENTRANT CORNERS, SLAB OPENINGS, AND DOOR OPENINGS. REINFORCING SHALL BE CONTINUOUS IN ALL CONCRETE CONSTRUCTION. REFERENCE CORNER BAR REINFORCING DETAIL. THIS INCLUDES WALL REINFORCING WHERE PEDESTALS ARE INTEGRAL WITH THE WALL.

WALL LEGEND

	- REPRESENTS 12" PRECAST WALL
	- REPRESENTS 6" LGMF WALL

FOUNDATION KEYNOTES

KEYNOTE	DESCRIPTION
03.100	DARK LINE INDICATES SLAB EDGE. COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
03.101	LINE INDICATES SLAB CONTRACTION JOINTS. REFER TO CONCRETE SLAB JOINTS DETAIL AND GENERAL NOTES FOR REQUIREMENTS. SHOWN IN ONE BAY ONLY FOR CLARITY.
03.102	DASHED LINE INDICATES FOUNDATION BELOW.
03.104	FOOTING STEP. REF TYPICAL FOOTING STEP DETAIL. CONTRACTOR SHALL COORDINATE ACTUAL LOCATION WITH FINISH GRADE. AT PRECAST, COORDINATE FOOTING STEP LOCATIONS WITH PRECAST MFR.
03.202	PROVIDE STANDARD THICKENED SLAB EDGE WHERE NEW SLAB ABUTS EXISTING CONCRETE. DOWEL NEW SLAB TO EXISTING CONCRETE WITH AN 18" LONG #5 DOWEL @ 12" OC. PROVIDE MINIMUM 6" EMBEDMENT INTO EXISTING CONCRETE.



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



Brian M. Orr, Engineer
MO# PE-2005005573

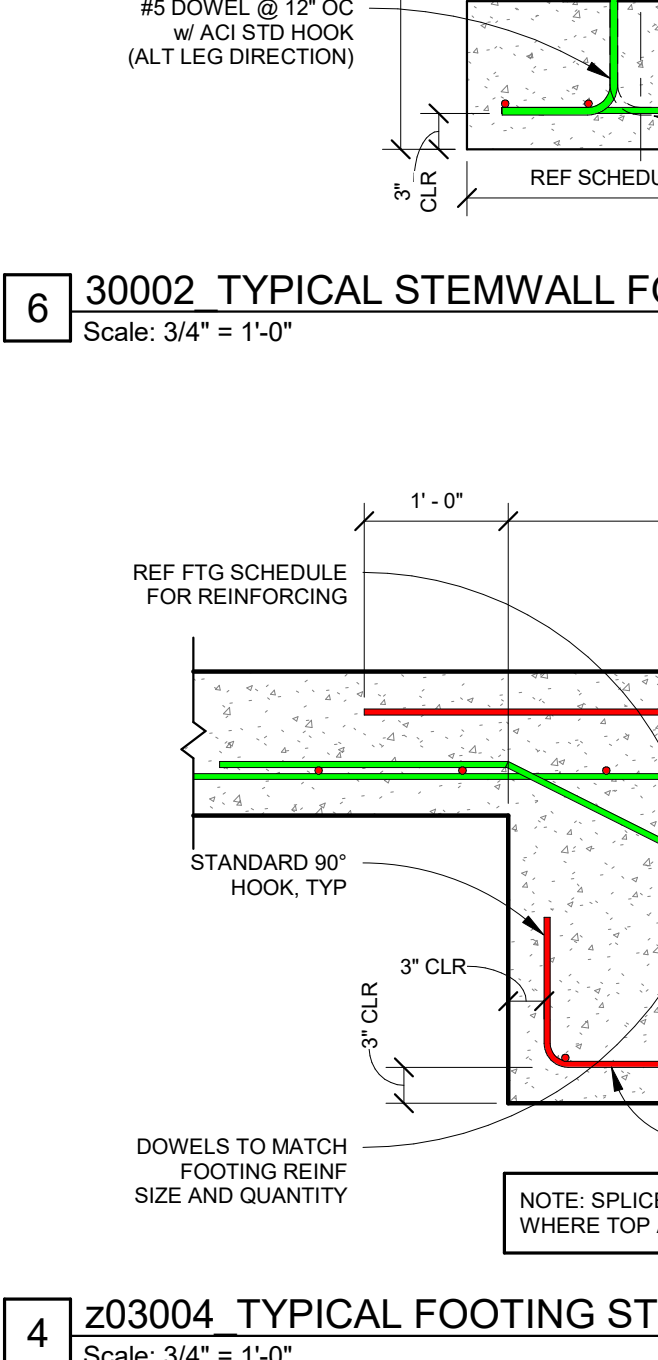
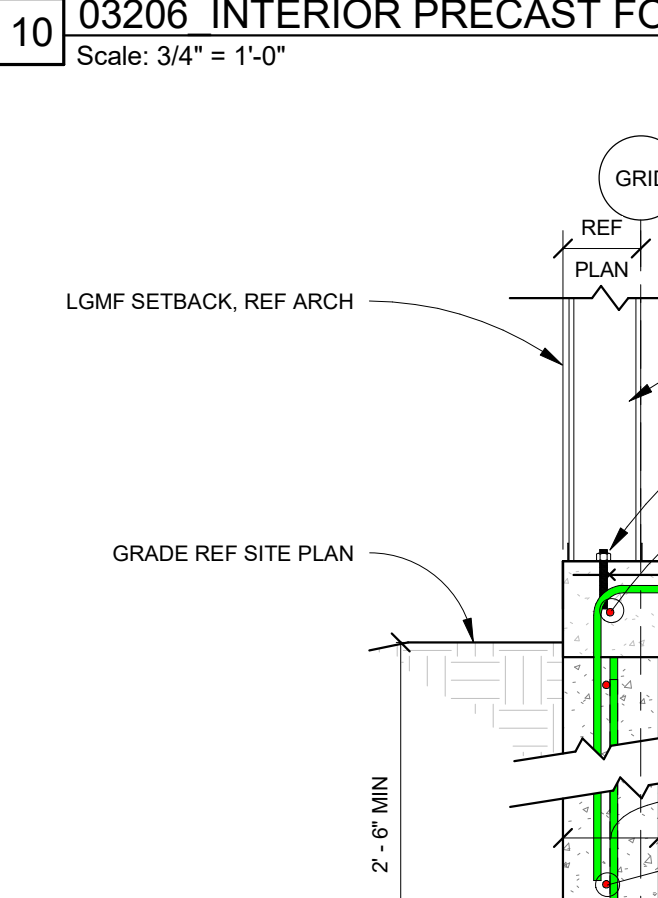
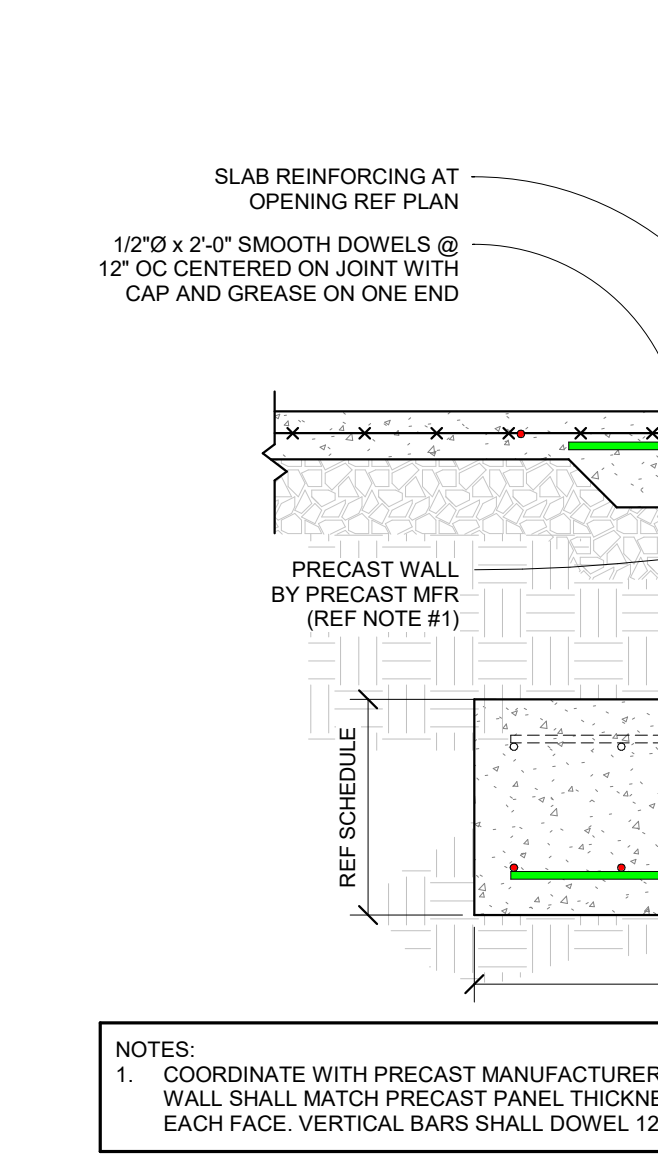
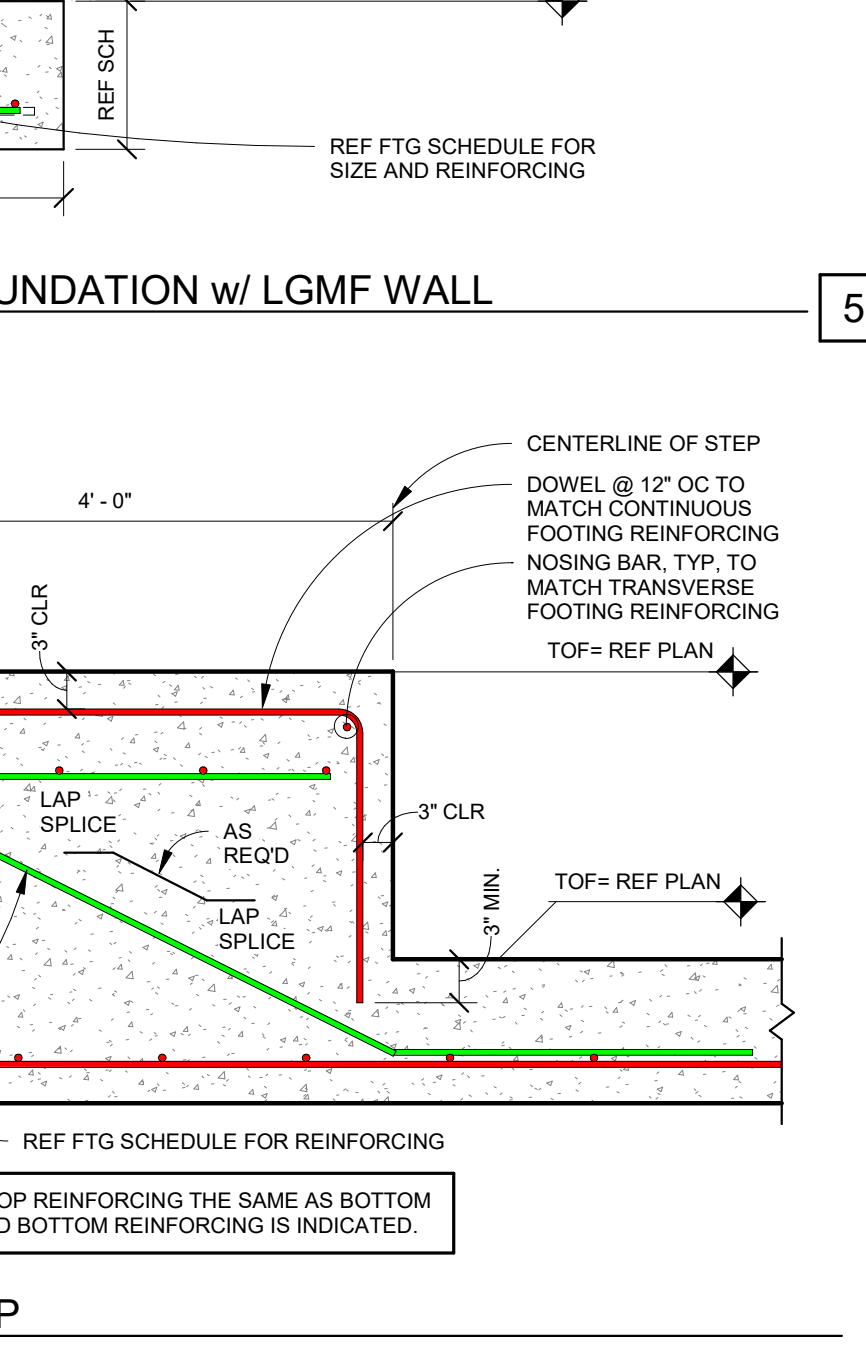
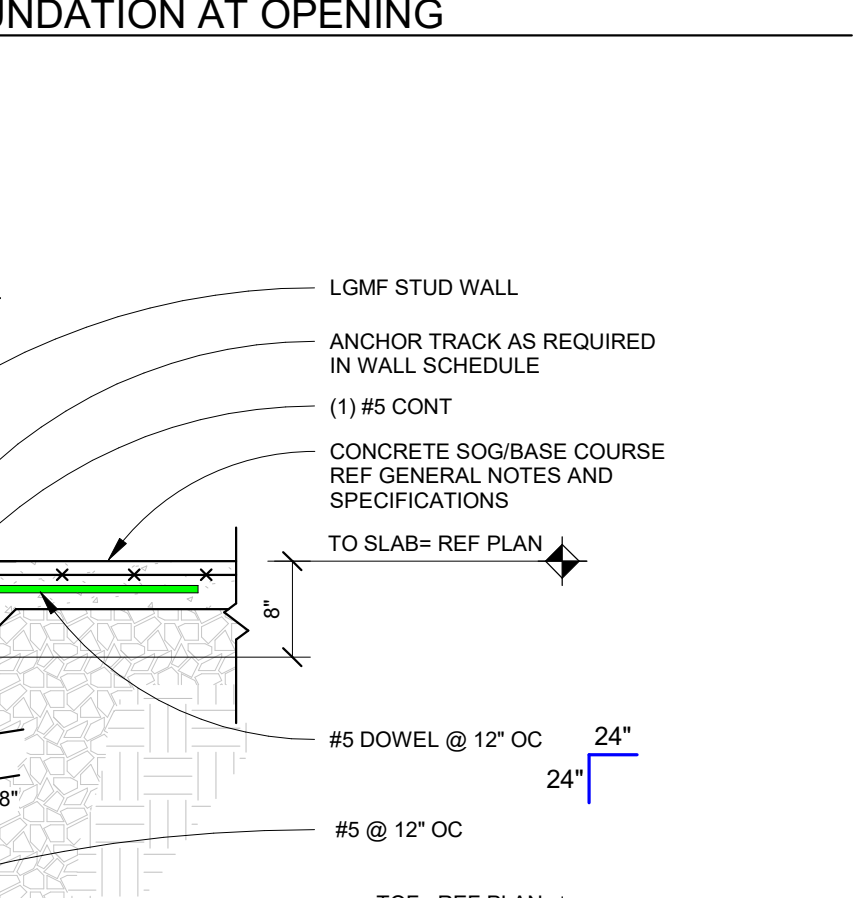
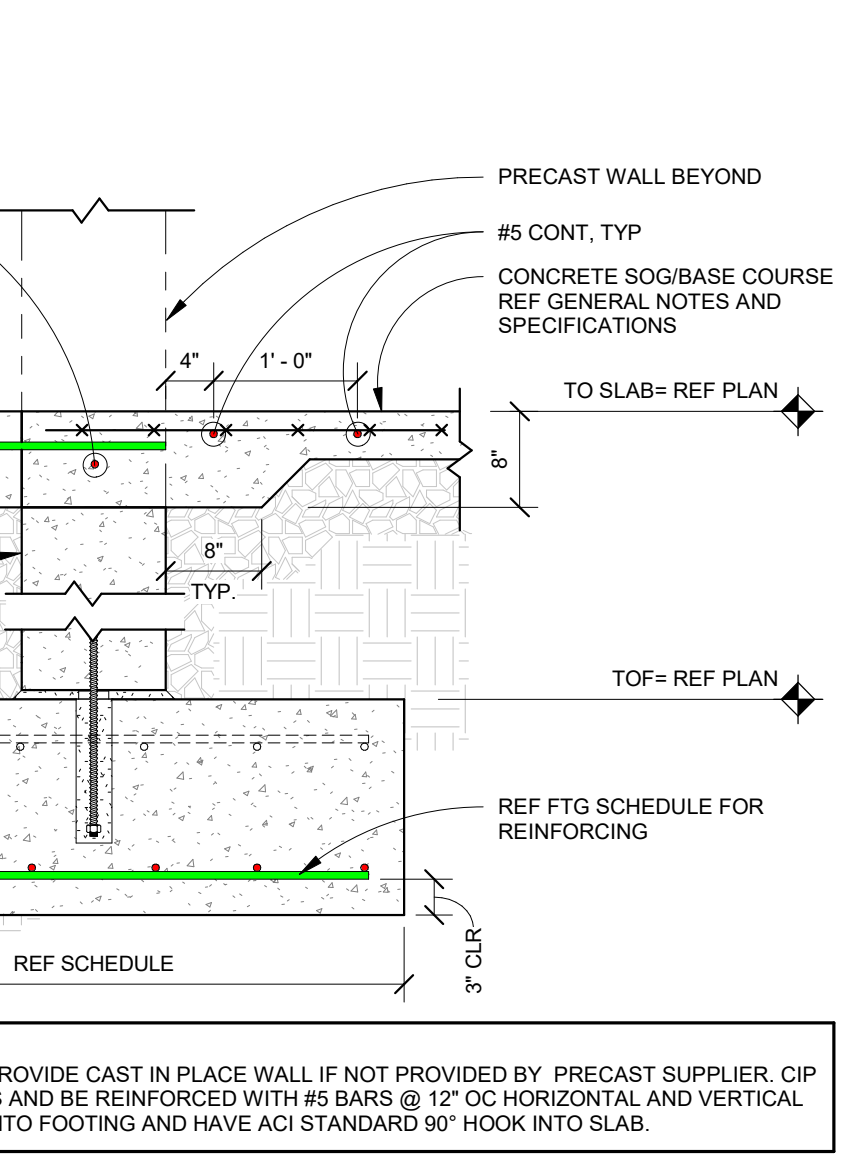
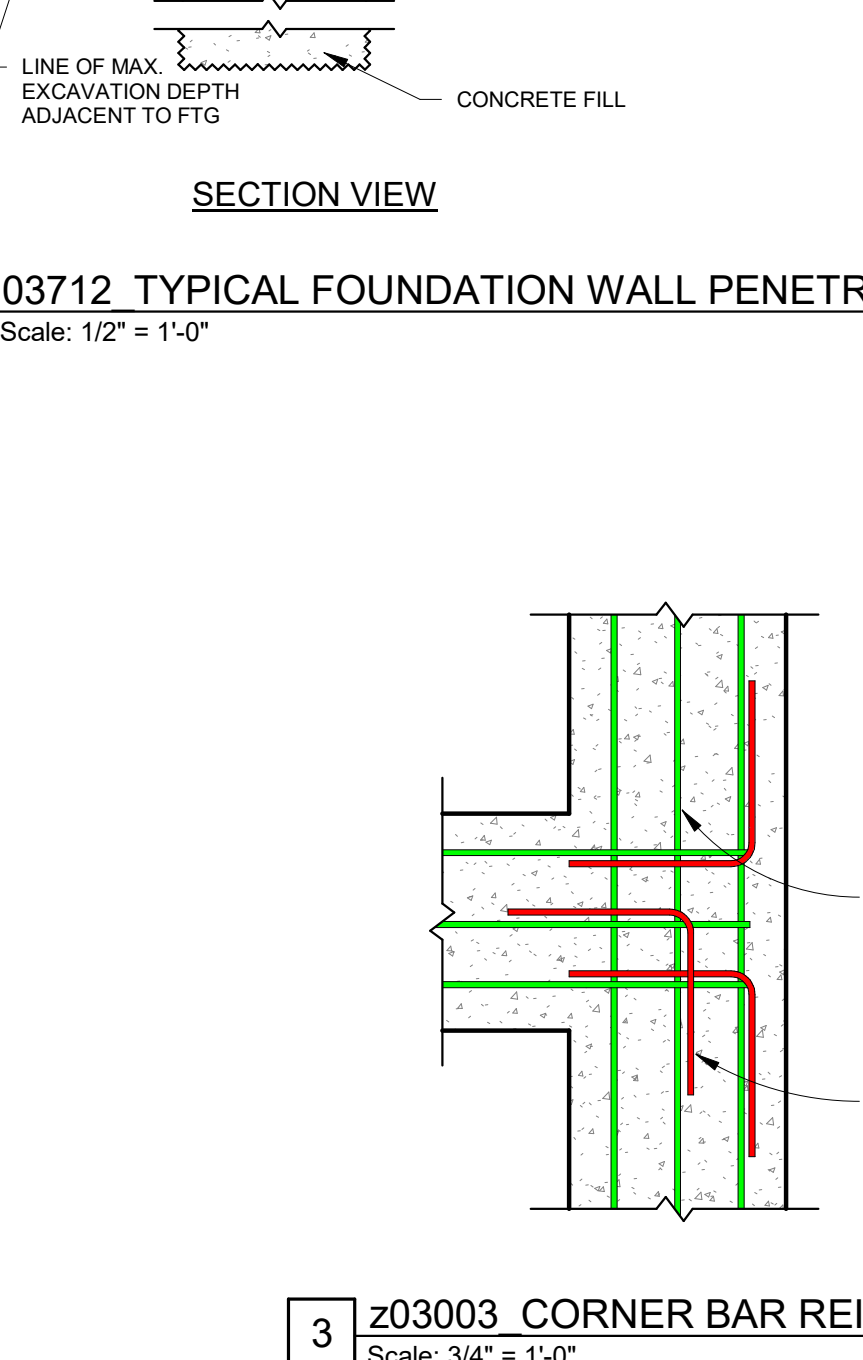
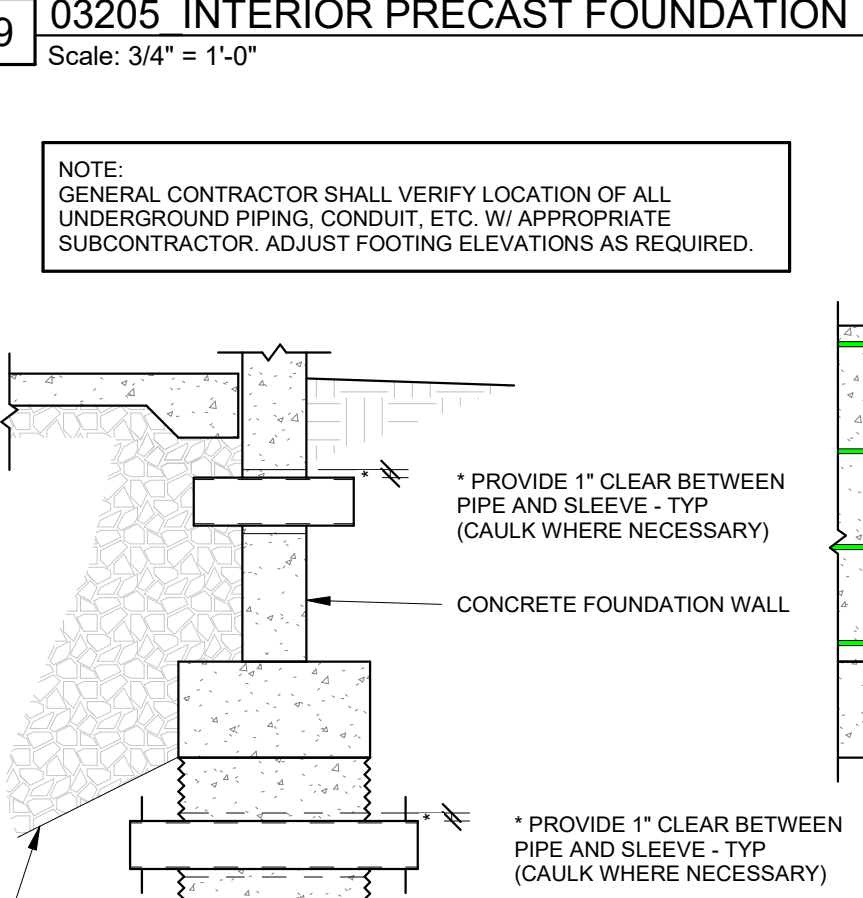
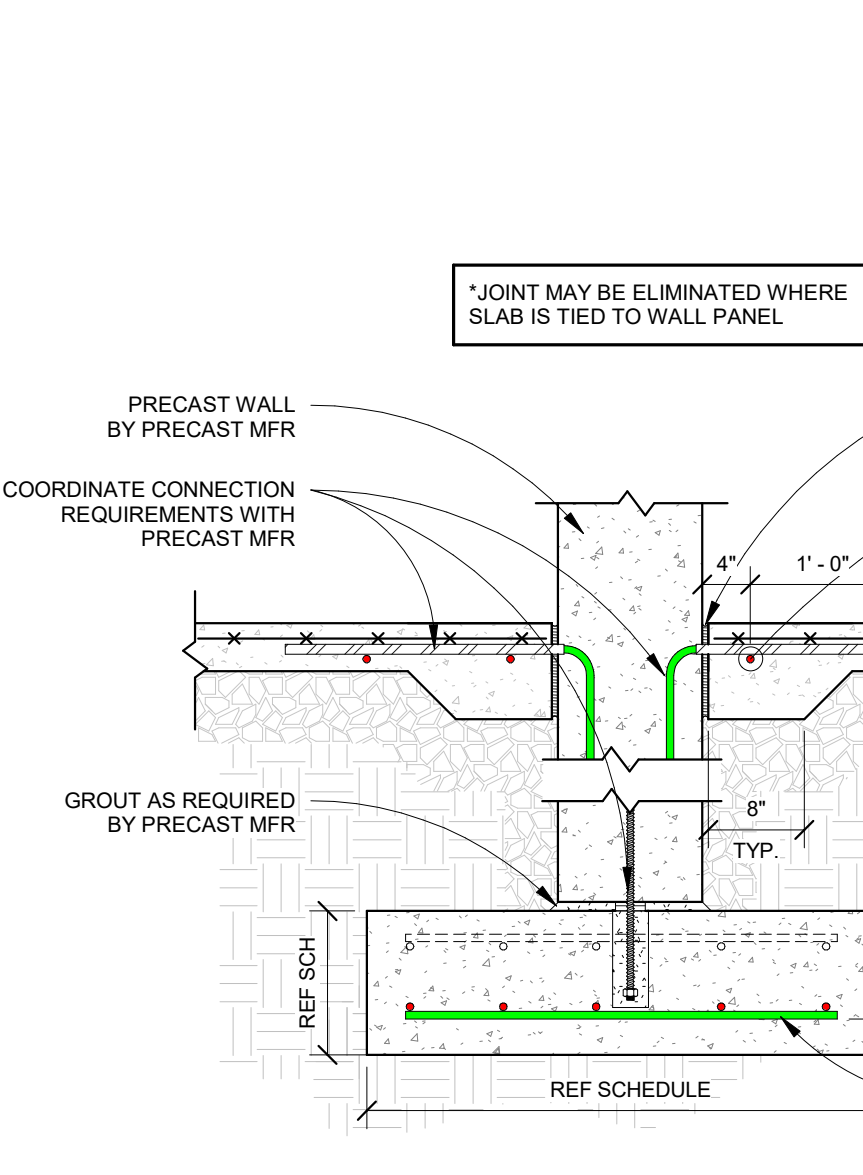
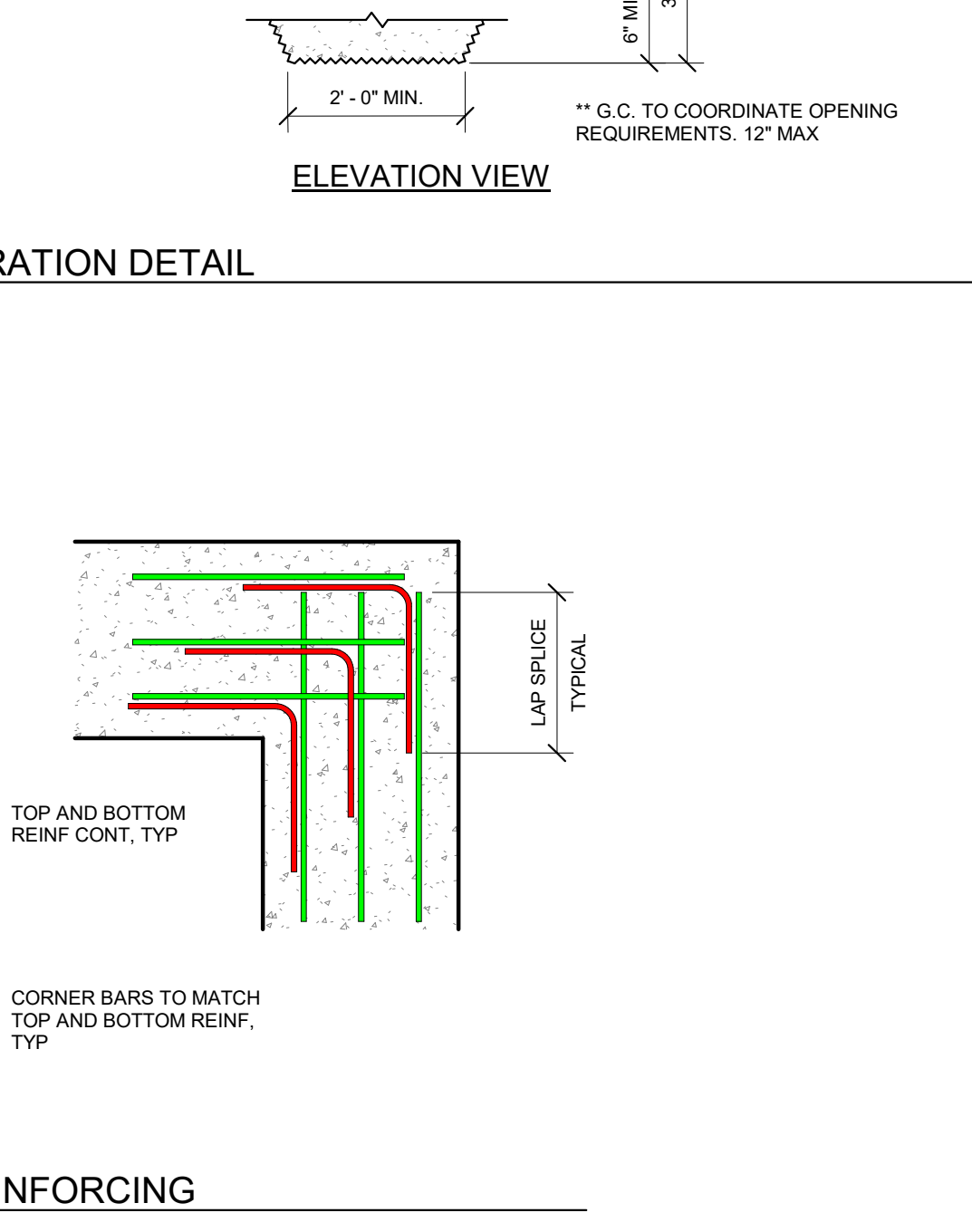
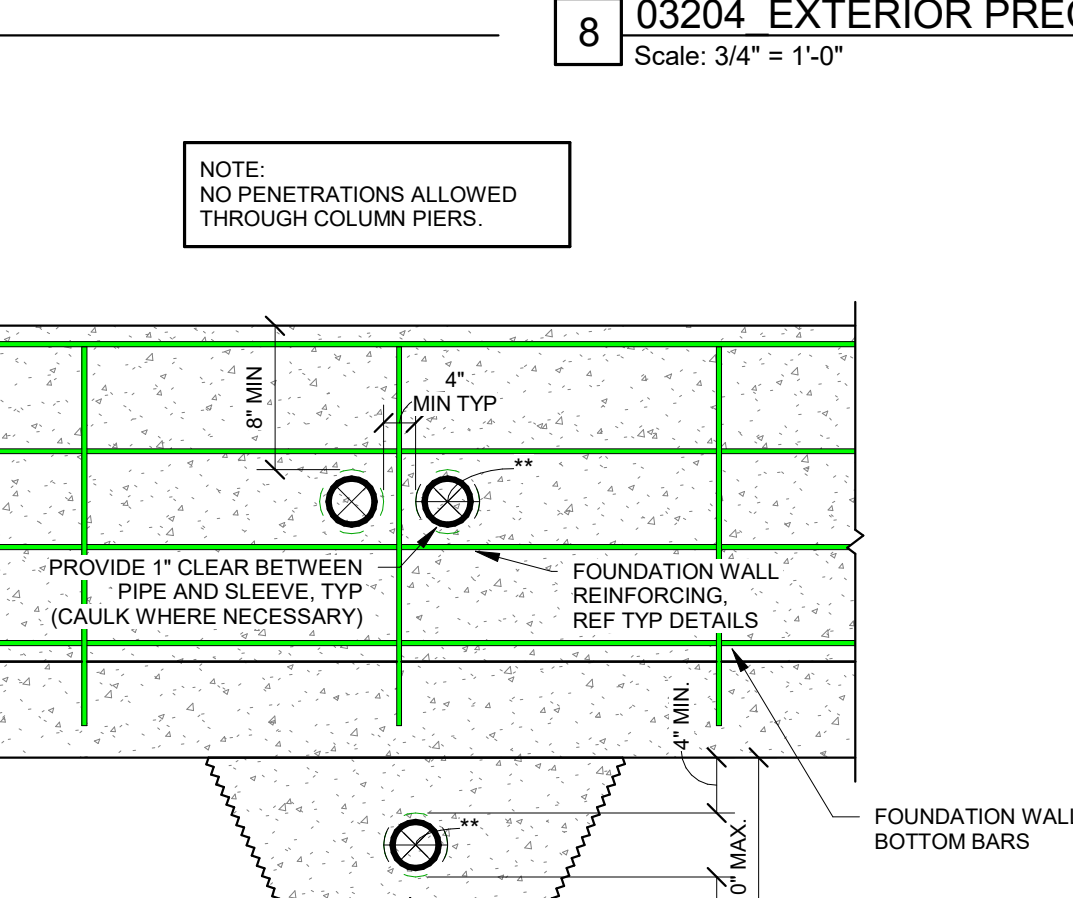
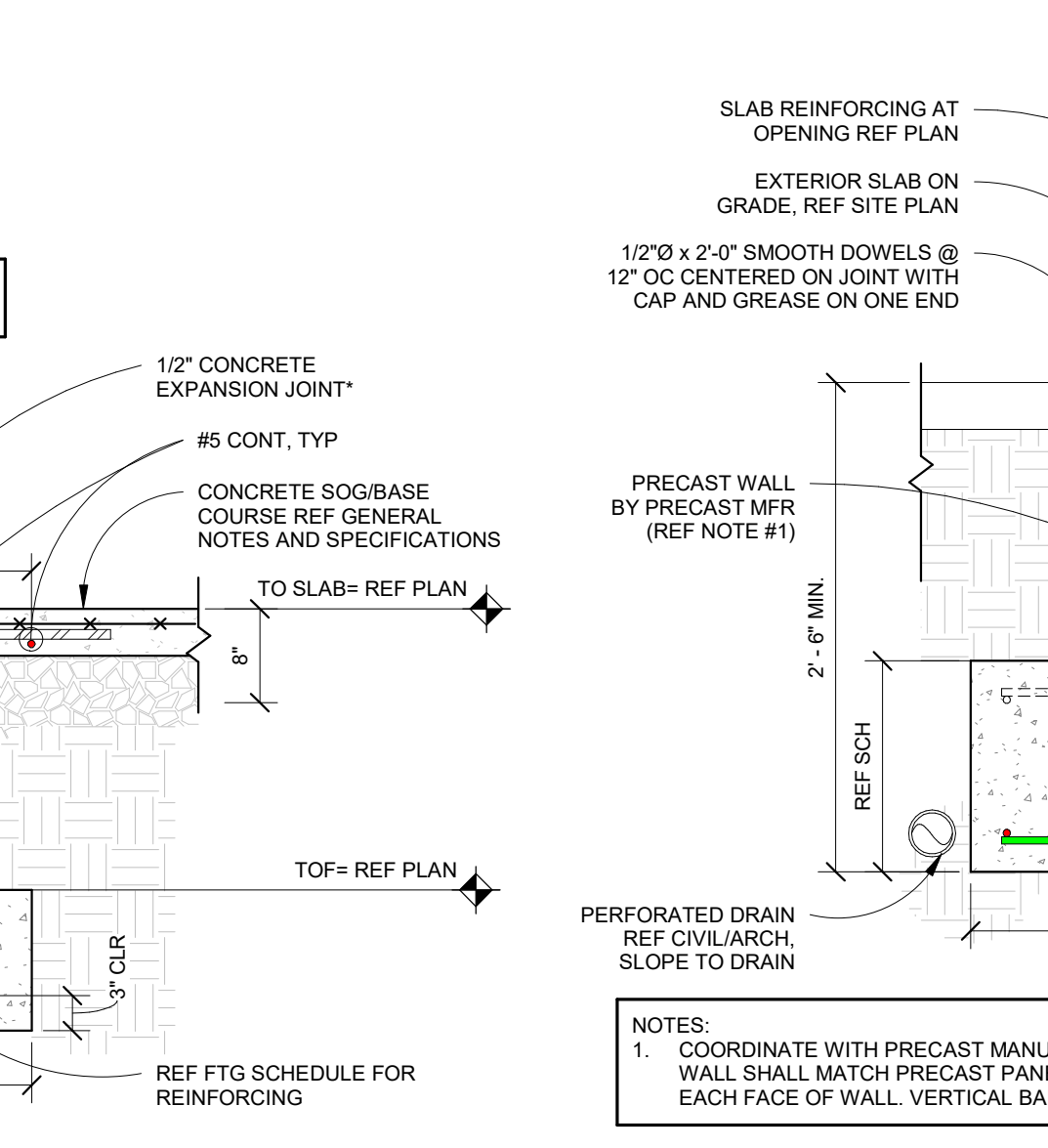
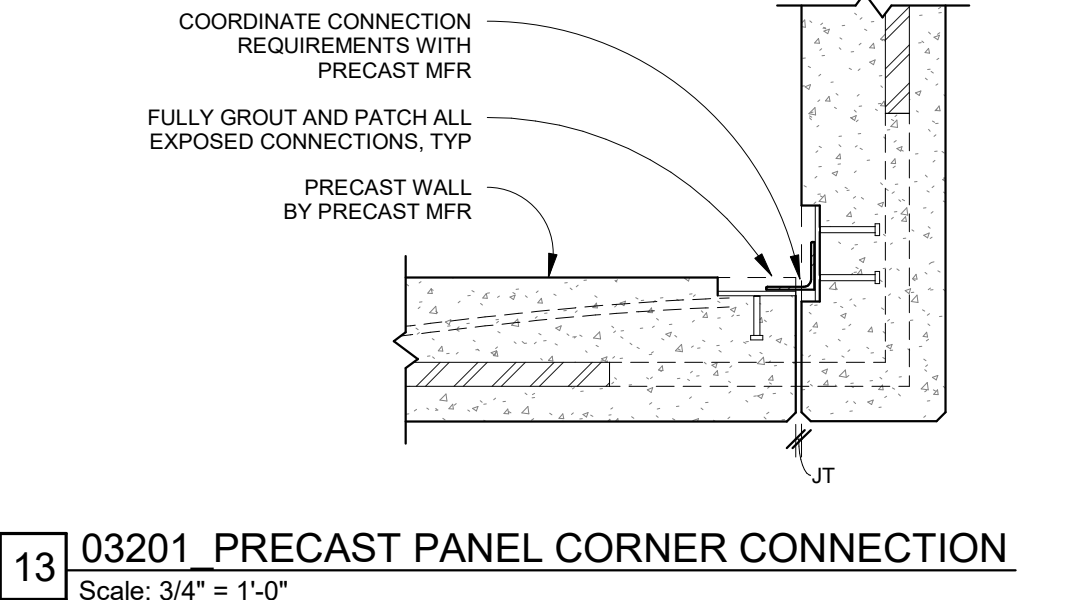
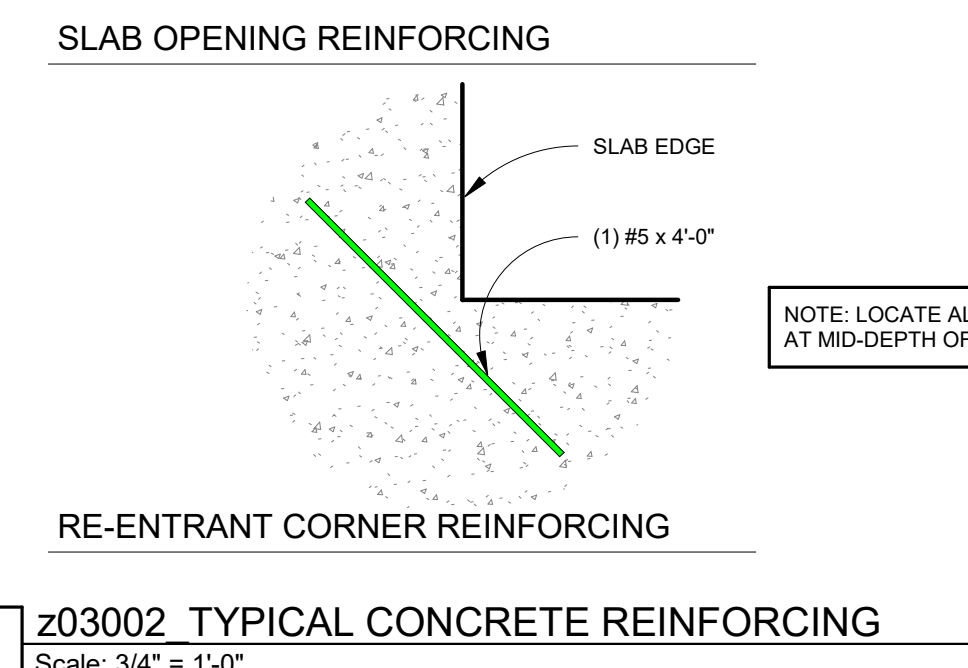
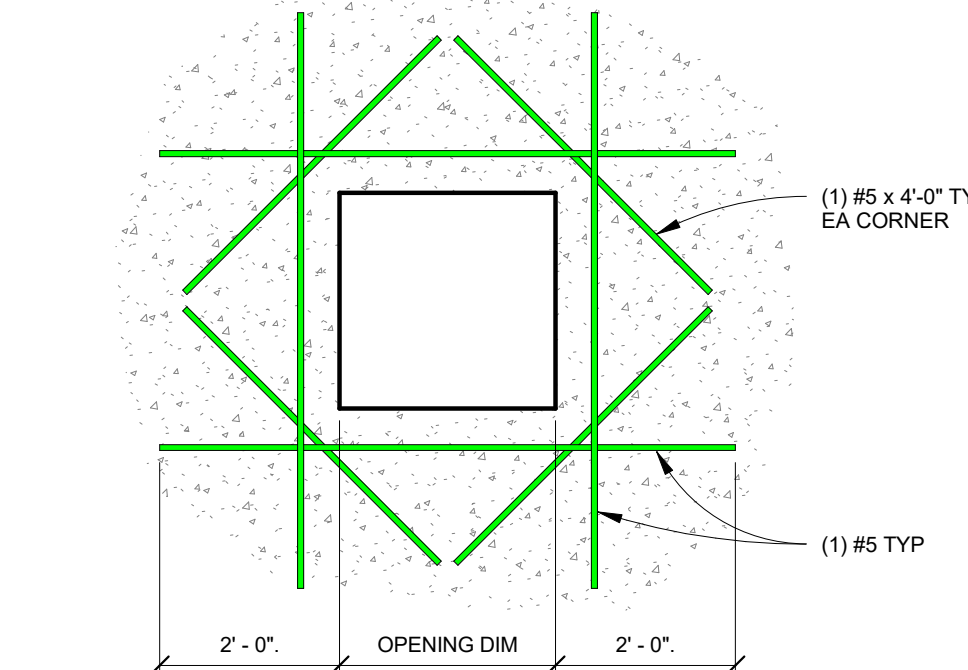
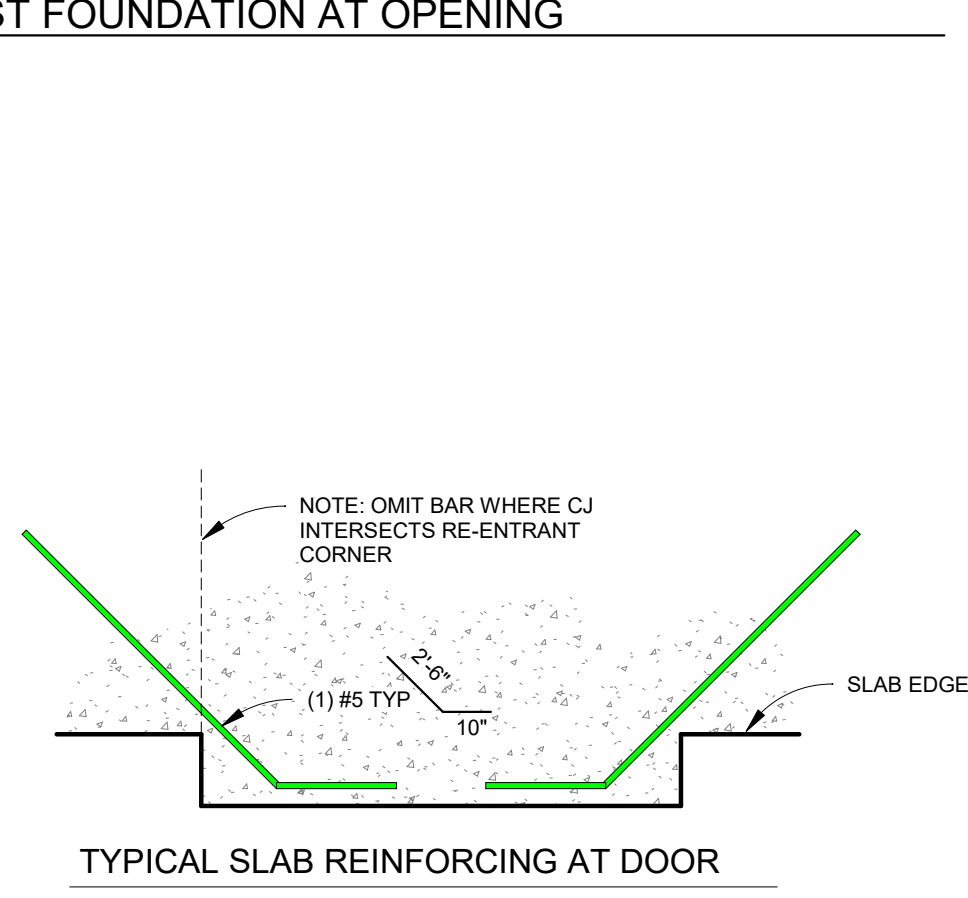
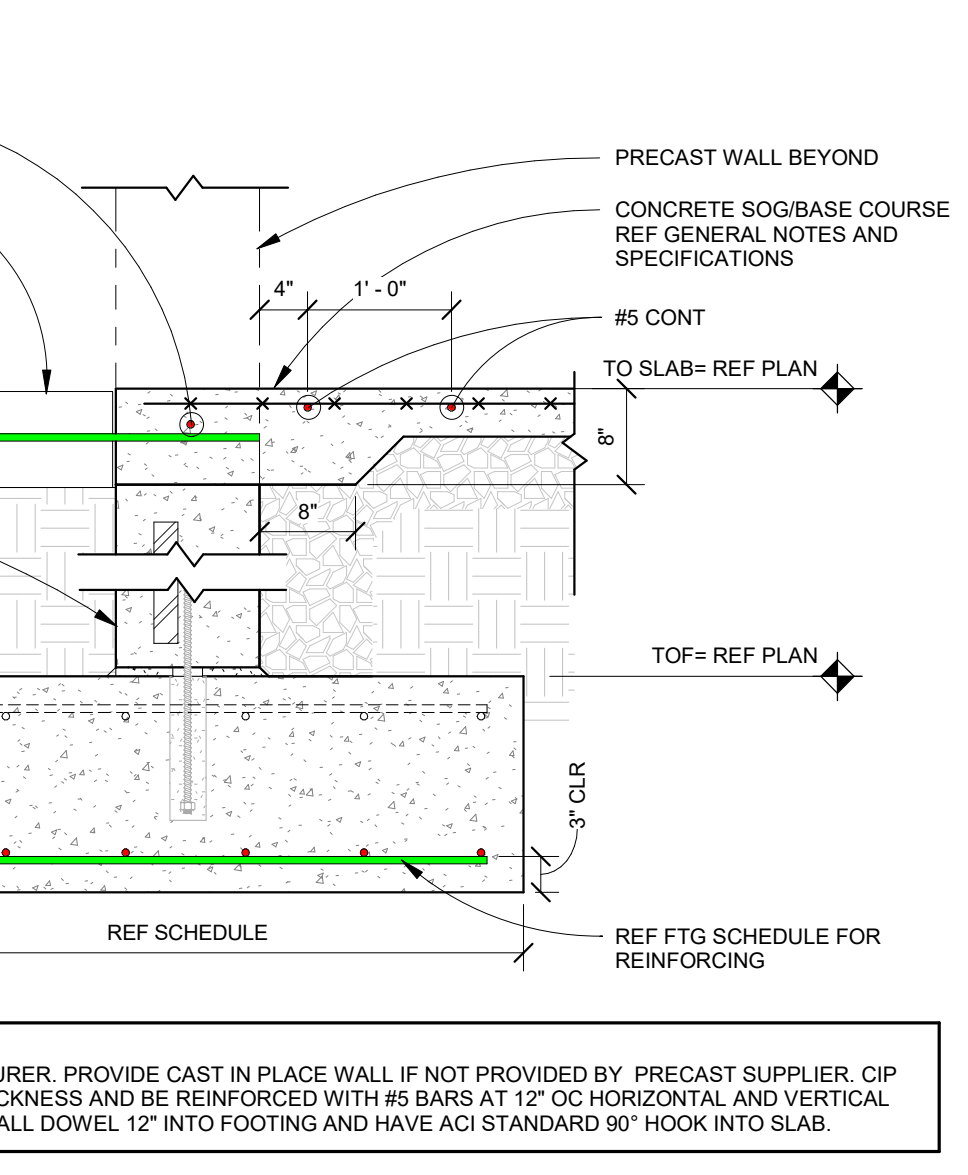
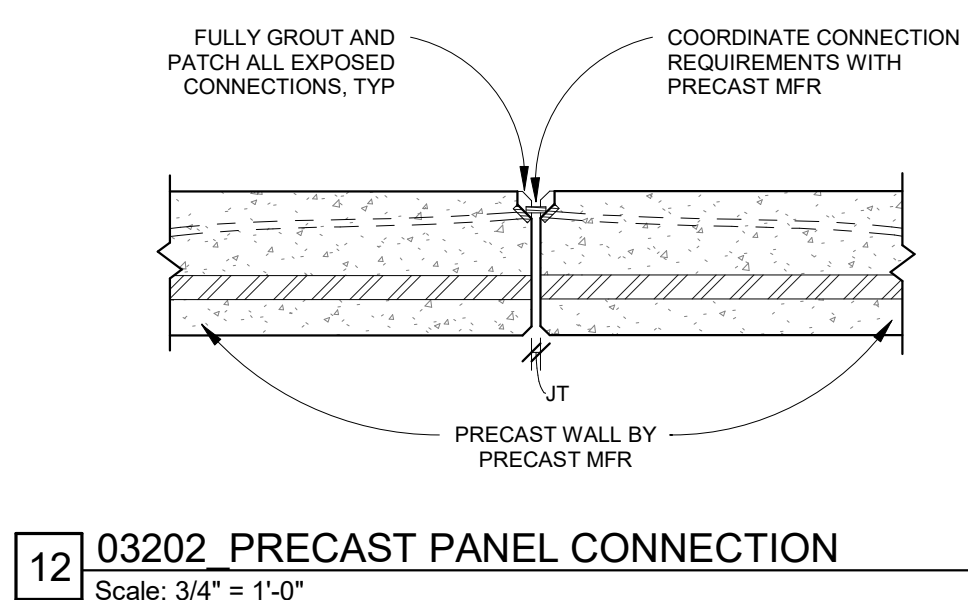
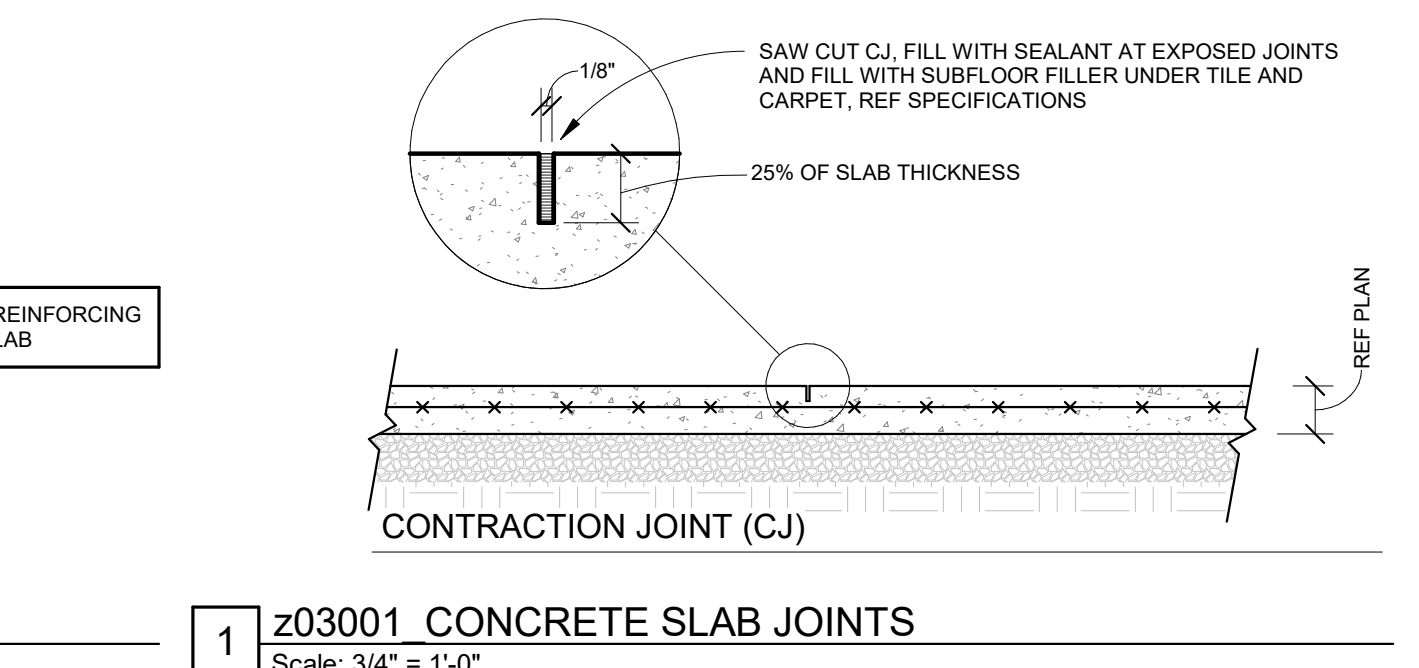
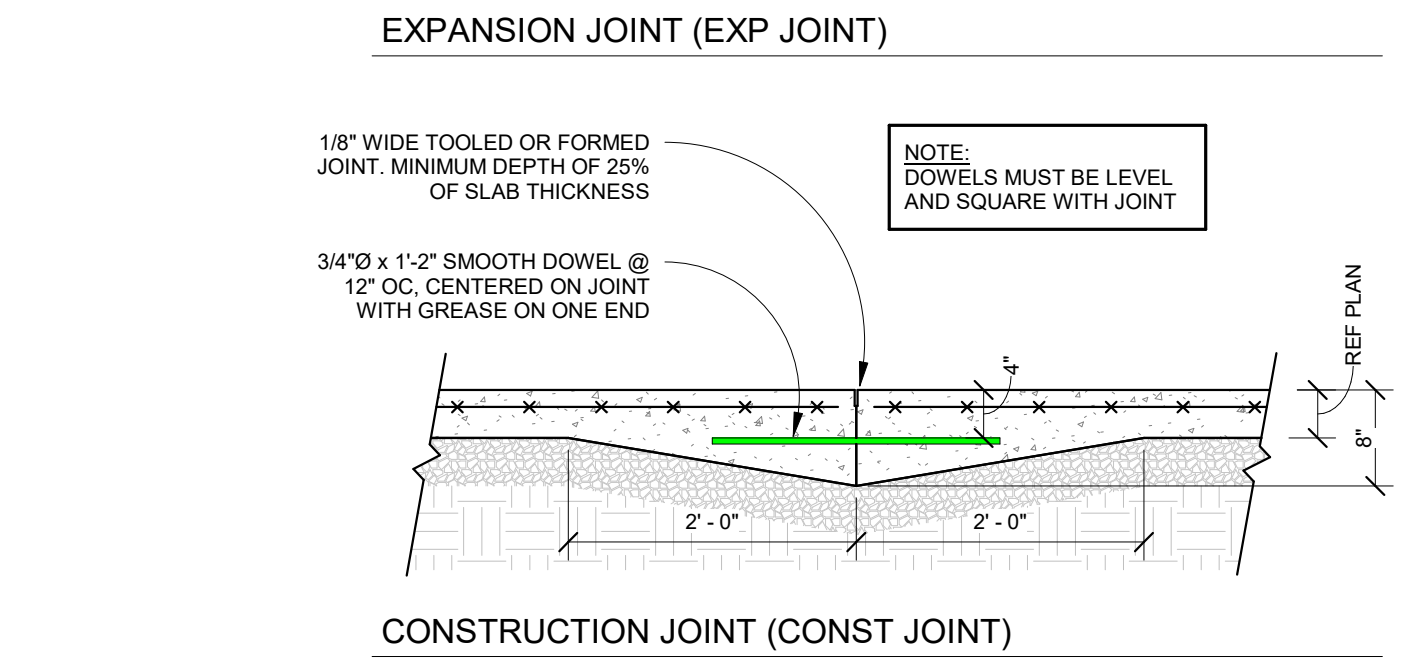
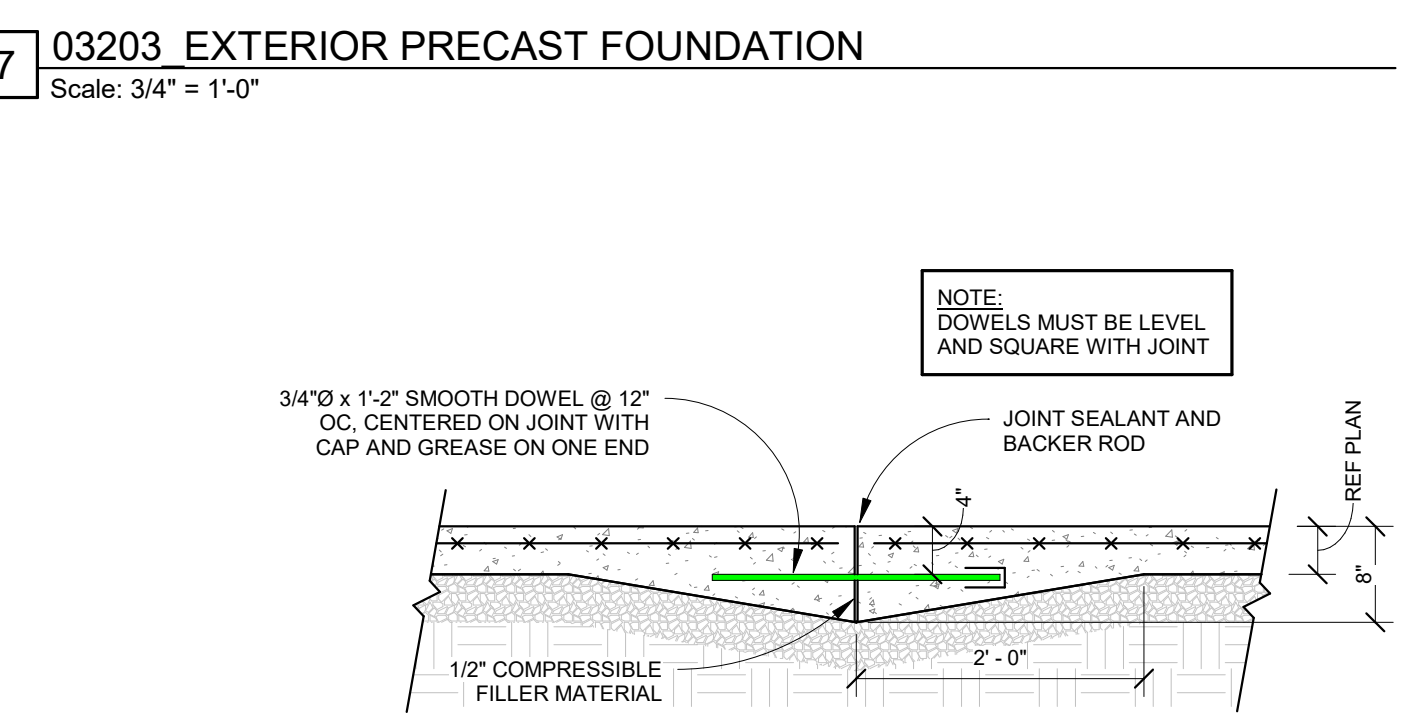
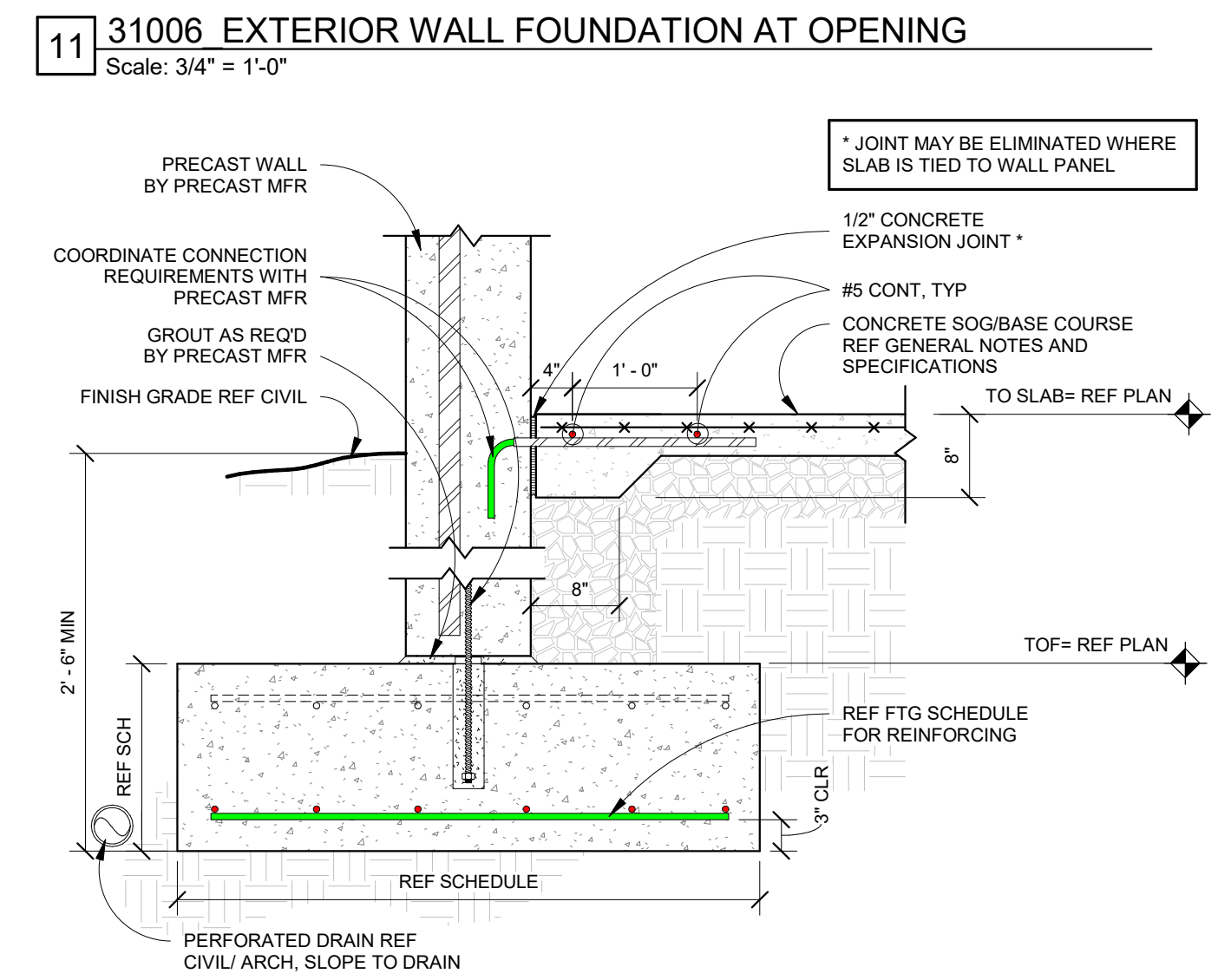
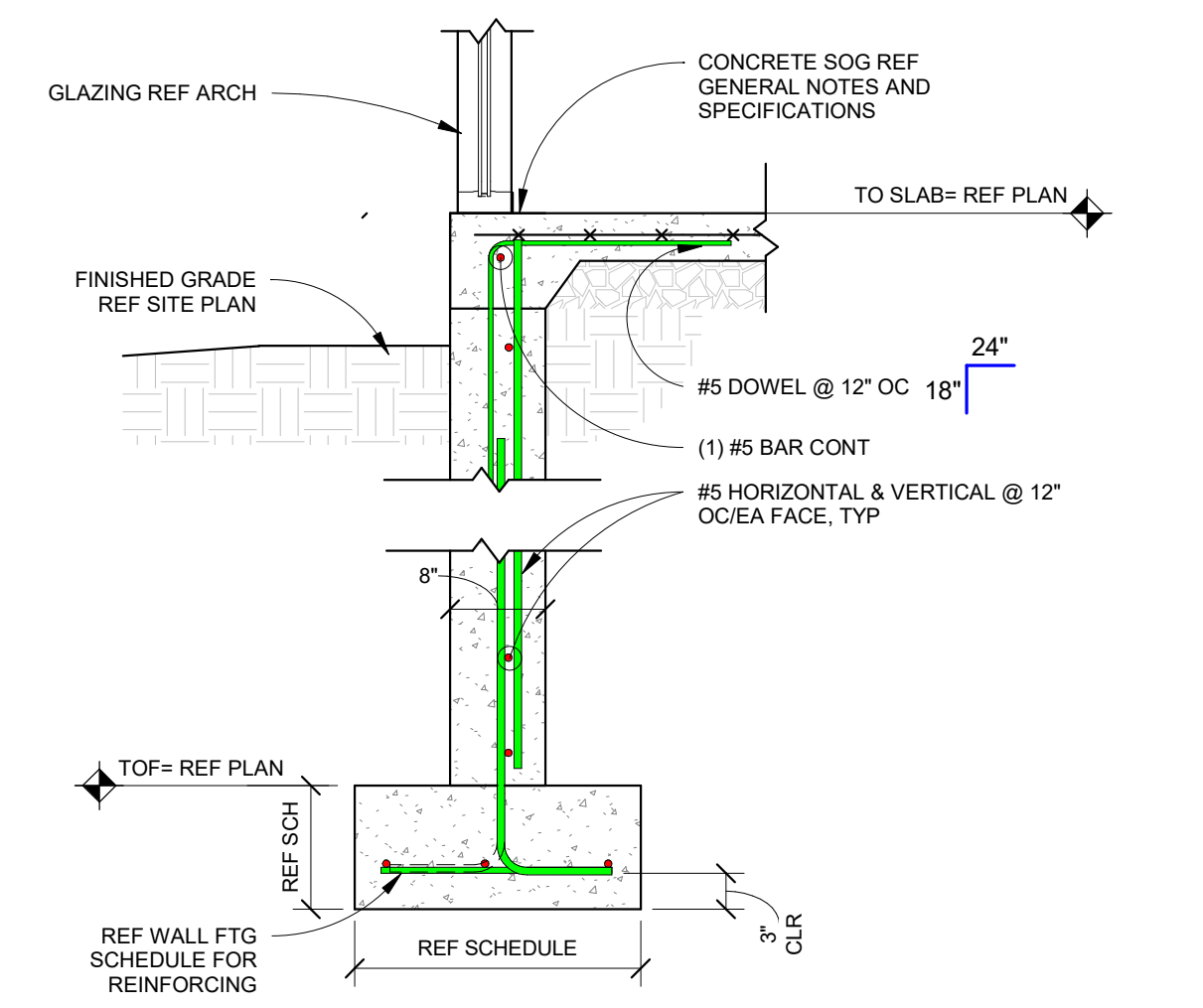
PARAGON
ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

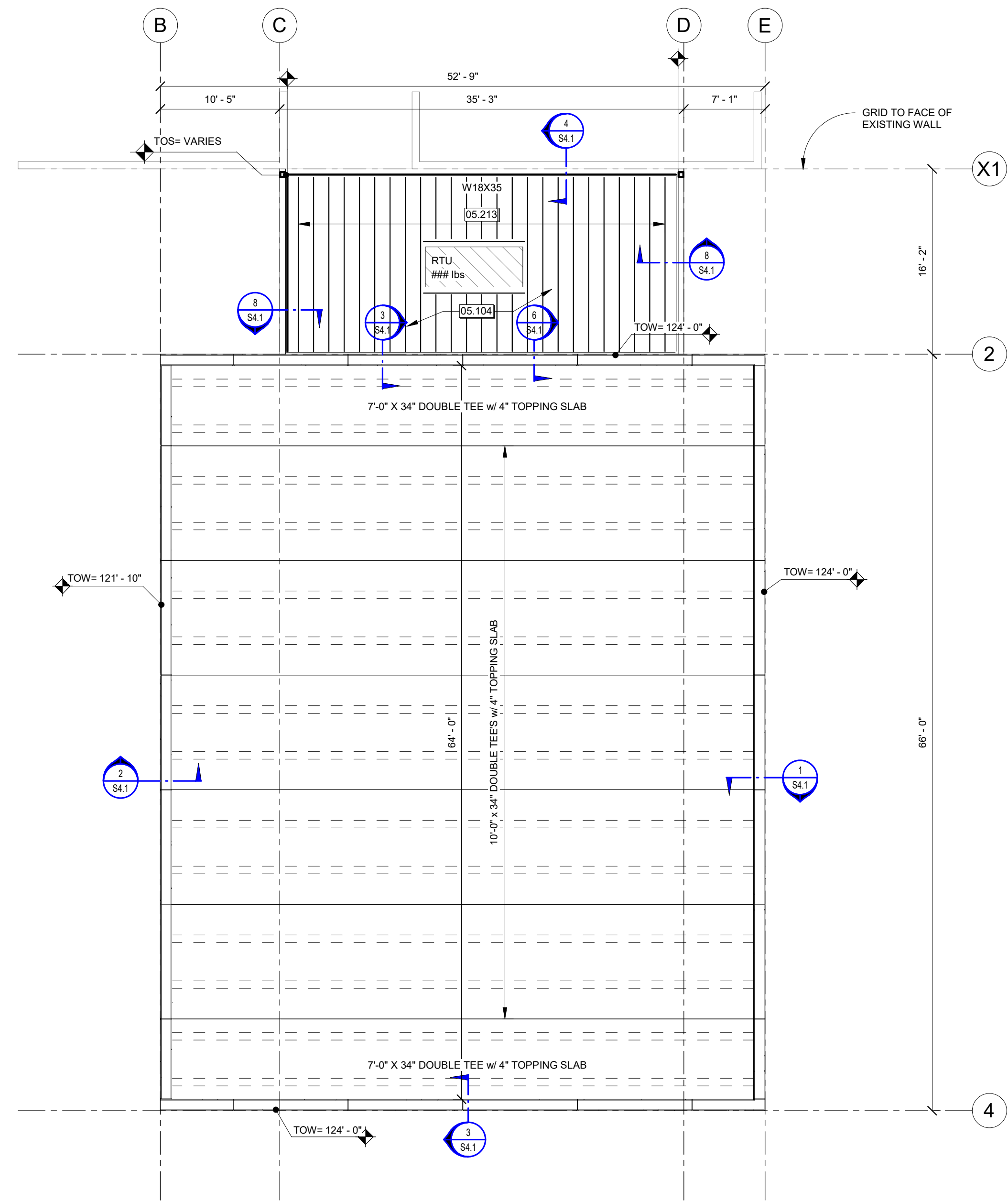
MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
REVISION SCHEDULE
Toth and Associates, Inc.
1530 E. Republic Rd.
Springfield, MO, 65804
417.885.0645



No.	Date	Description

S2.1 Cabool Middle School Saferoom
FOUNDATION DETAILS
PROJECT NUMBER: 20-606
DATE: 08/16/2021
PROJECT DESCRIPTION: Cabool, MO 65689
DRAWN BY: PROJECT ARCHITECT
CHECKED BY:





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

FRAMING PLAN NOTES

1. ALL ELEVATIONS, DOOR LOCATIONS, OPENING WIDTHS, HEAD AND SILL HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
2. MECHANICAL EQUIPMENT WEIGHTS AND LOCATIONS ARE ESTIMATES ONLY. GC COORDINATE EXACT WEIGHT AND LOCATIONS WITH EQUIPMENT PROVIDER. JOIST PROVIDER TO DESIGN ASSOCIATED JOISTS FOR ADDITIONAL LOADS DUE TO MECHANICAL EQUIPMENT.
3. PROVIDE ANGLE SUPPORT FRAME FOR ALL DECK OPENINGS GREATER THAN 10 INCHES SQUARE. THIS INCLUDES ROOF DRAIN PENETRATIONS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF PARTITION WALL ELEVATIONS. BRACE TOPS OF WALLS IN ACCORDANCE WITH TYPICAL DETAILS.
5. PROVIDE A STEEL LINTEL IN ACCORDANCE WITH THE LOOSE LINTEL SCHEDULE AT ALL OPENINGS IN MASONRY VENEER.
6. COORDINATE FIREPROOFING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
7. PROVIDE JOIST BRIDGING AS REQUIRED BY THE JOIST PROVIDER. GC COORDINATE BRIDGING LOCATIONS WITH OTHER TRADES.
8. MECHANICAL HANGERS AND OTHER ITEMS SUPPORTED FROM FLOOR OR ROOF FRAMING ARE TO BE SUPPORTED FROM JOIST PANEL POINTS ONLY. REFER TO JOIST REINFORCING DETAIL FOR ADDITIONAL INFORMATION.
9. BACK OF ANGLE DIMENSIONS TO FRAME LINE TO BE COORDINATED W/ ARCHITECTURAL DRAWINGS AND DETAILS.

FRAMING KEYNOTES

KEYNOTE	DESCRIPTION
05.104	1 1/2" ZZ GAGE TYPE B METAL DECK. REFERENCE METAL DECK SCHEDULE FOR ATTACHMENT REQUIREMENTS.
05.213	10" LIGHT GAUGE JOISTS AT 16" OC MAX. DESIGN BY LGMF SUPPLIER.



Brian M. Orr, Engineer
MO# PE-2005005573

COPYRIGHT 2021 ©
THESE PRINTS ARE THE PROPERTY OF TOOTH & ASSOCIATES, INC. AND
SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

PARAGON

ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

REVISION SCHEDULE

Tooth and Associates, Inc.
1550 E. Republic Rd.
Springfield, MO, 65804
417.885.0045



Structural Engineering

No.	Date	Description

S3.1 Cabool Middle School Saferoom
ROOF FRAMING PLAN

PROJECT NUMBER: 1025 Rogers Avenue
Cabool, MO 65689
20-606
DATE: 08/16/2021
PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:

SHEET NUMBER: PROJECT DESCRIPTION:

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT OR FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED (USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT), SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.



Brian M. Orr, Engineer
MO# PE-2005005573

COPYRIGHT 2023 ©
THESE PRINTS ARE THE PROPERTY OF TOOTH & ASSOCIATES, INC. AND
SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON

ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

REVISION SCHEDULE

Tooth and Associates, Inc.
1550 E. Republic Rd.
Springfield, MO 65804
417.885.0045



No.	Date	Description

PROJECT DESCRIPTION: Cabool Middle School Saferoom

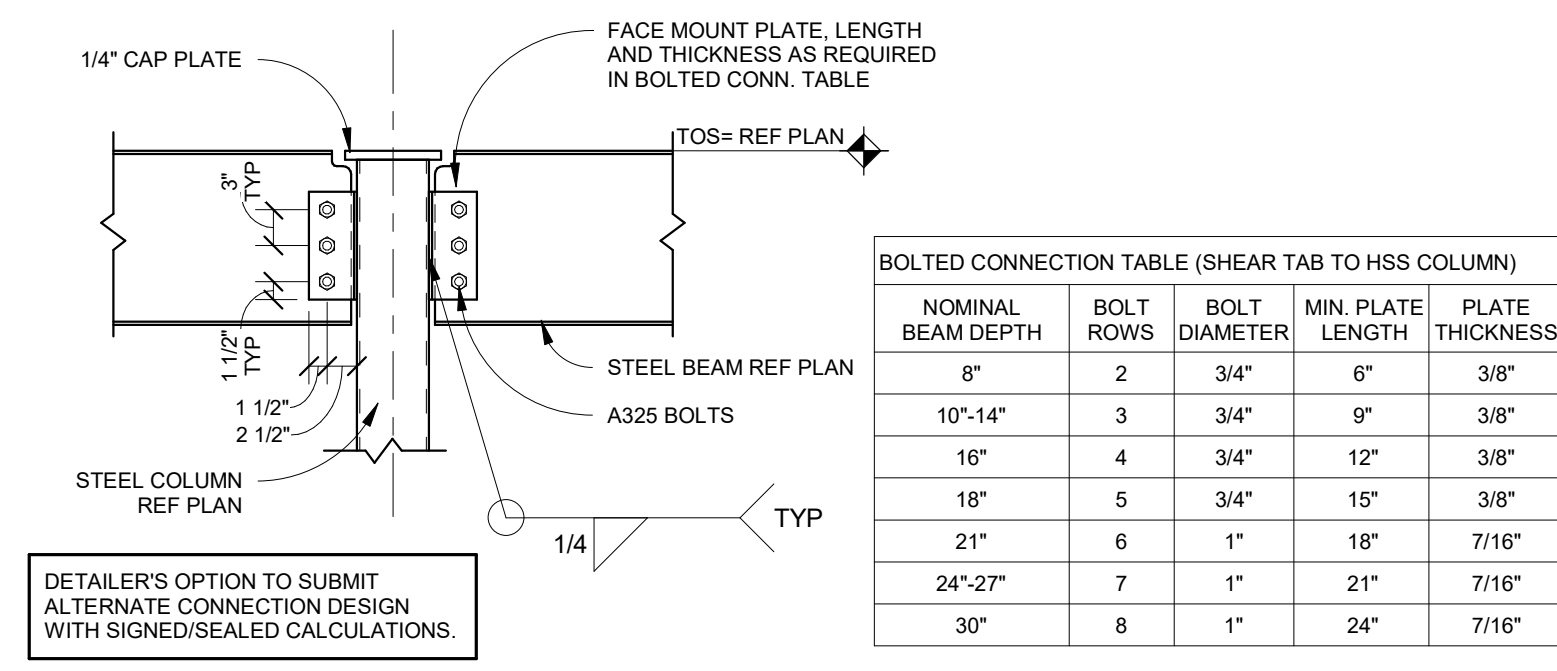
PROJECT NUMBER: 20-606

DATE: 08/16/2021

PROJECT ARCHITECT: TOOTH & ASSOCIATES

DRAWN BY: [Name]

CHECKED BY: [Name]



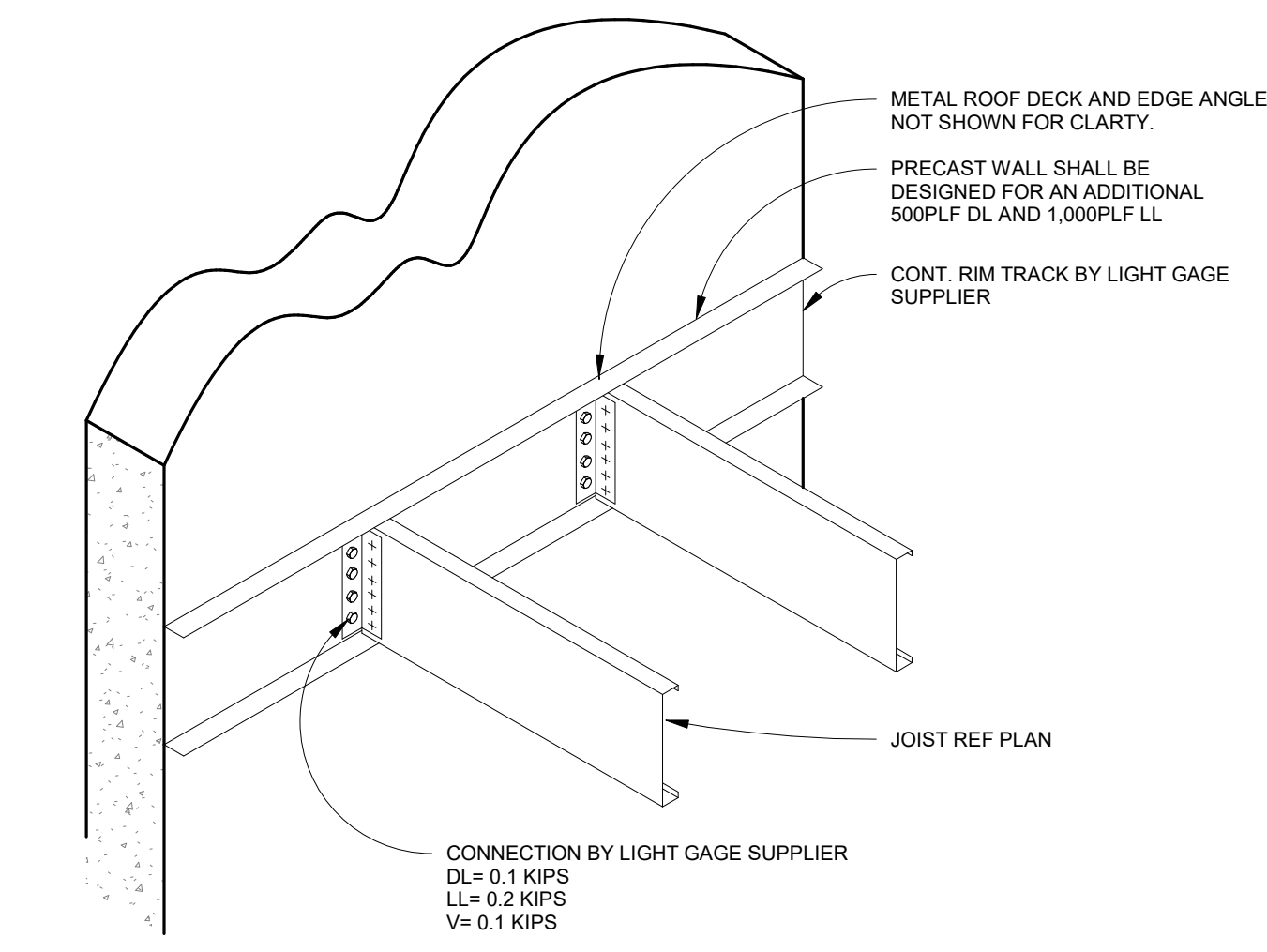
BOLTED CONNECTION TABLE (SHEAR TAB TO HSS COLUMN)

NOMINAL BEAM DEPTH	BOLT ROWS	BOLT DIAMETER	MIN. PLATE LENGTH	PLATE THICKNESS
8"	2	3/4"	6"	3/8"
10"-14"	3	3/4"	9"	3/8"
16"	4	3/4"	12"	3/8"
18"	5	3/4"	15"	3/8"
21"	6	1"	18"	7/16"
24"-27"	7	1"	21"	7/16"
30"	8	1"	24"	7/16"

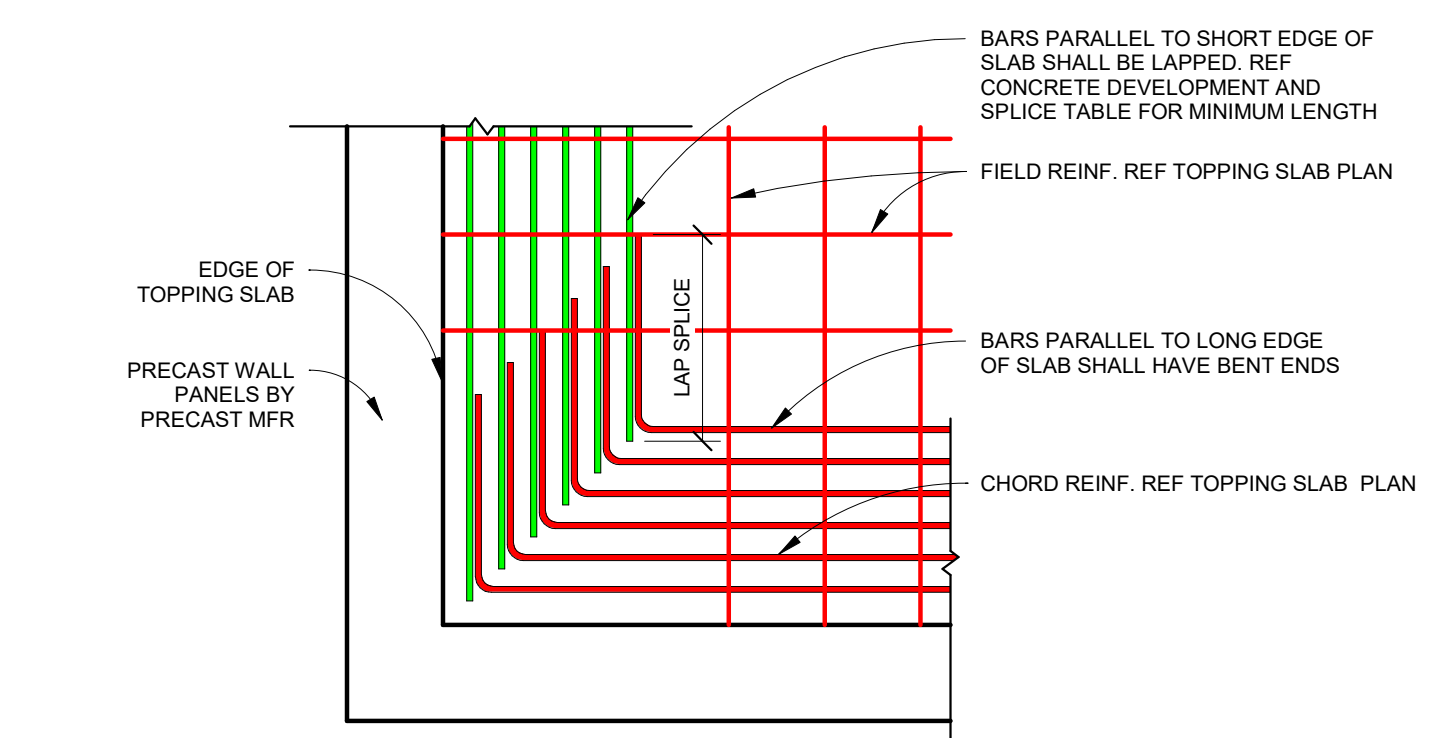
- NOTES:**
- NUMBER OF ROWS IS EQUAL TO NUMBER OF BOLTS TO ENCLOSE WEB.
 - ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OTHERWISE ON FRAMING PLANS.
 - ADD 1 1/2" TO ANGLE LENGTH FOR STAGGERED BOLT CONNECTIONS.
 - 3" DIMENSION TYPICAL EXCEPT AS RECOMMENDED BY AISC FOR LARGER BEAMS/LARGE BOLTS.
 - SSLT HOLES ARE NOT PERMITTED IN BEAMS ALONG BRACE LINES.
 - DETAILER'S OPTION TO SUBMIT ALTERNATE CONNECTION DESIGN WITH SIGNED/SEALED CALCULATIONS.

8 LIGHT GAGE FRAMING @ CONNECTOR
Scale: 3/4" = 1'-0"

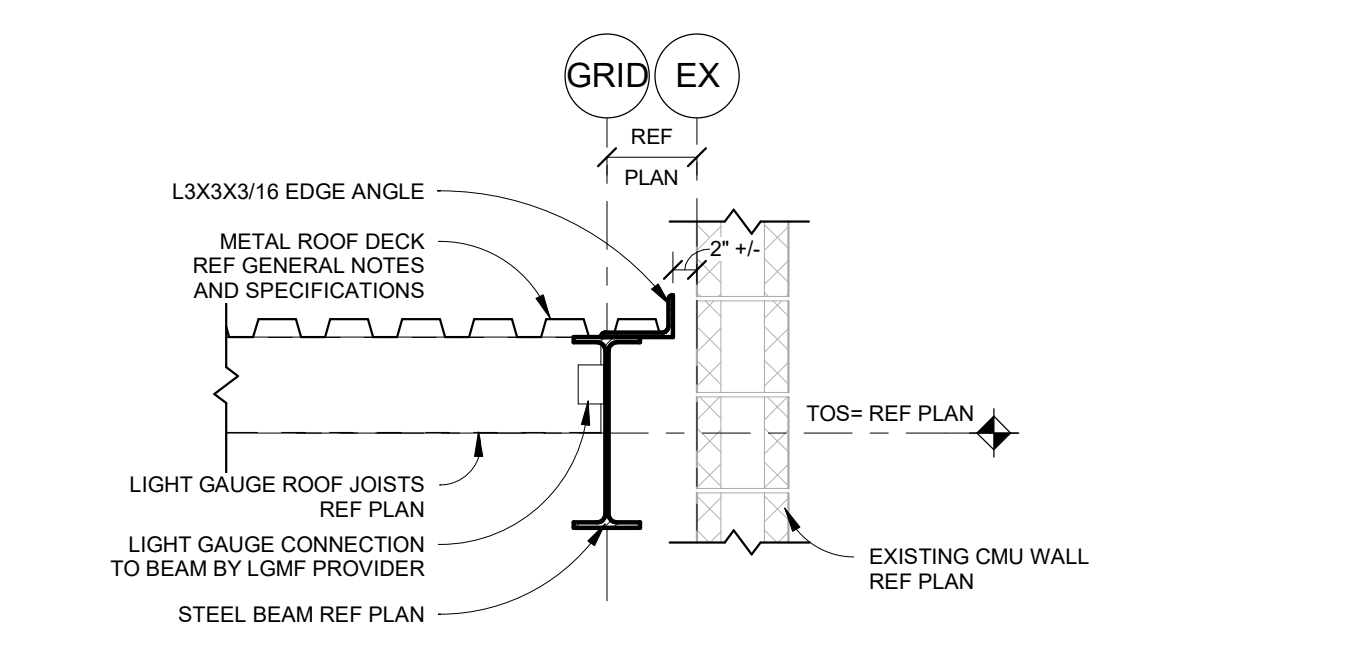
7 FACE MOUNT BEAM TO TUBE COLUMN CONNECTION
Scale: 3/4" = 1'-0"



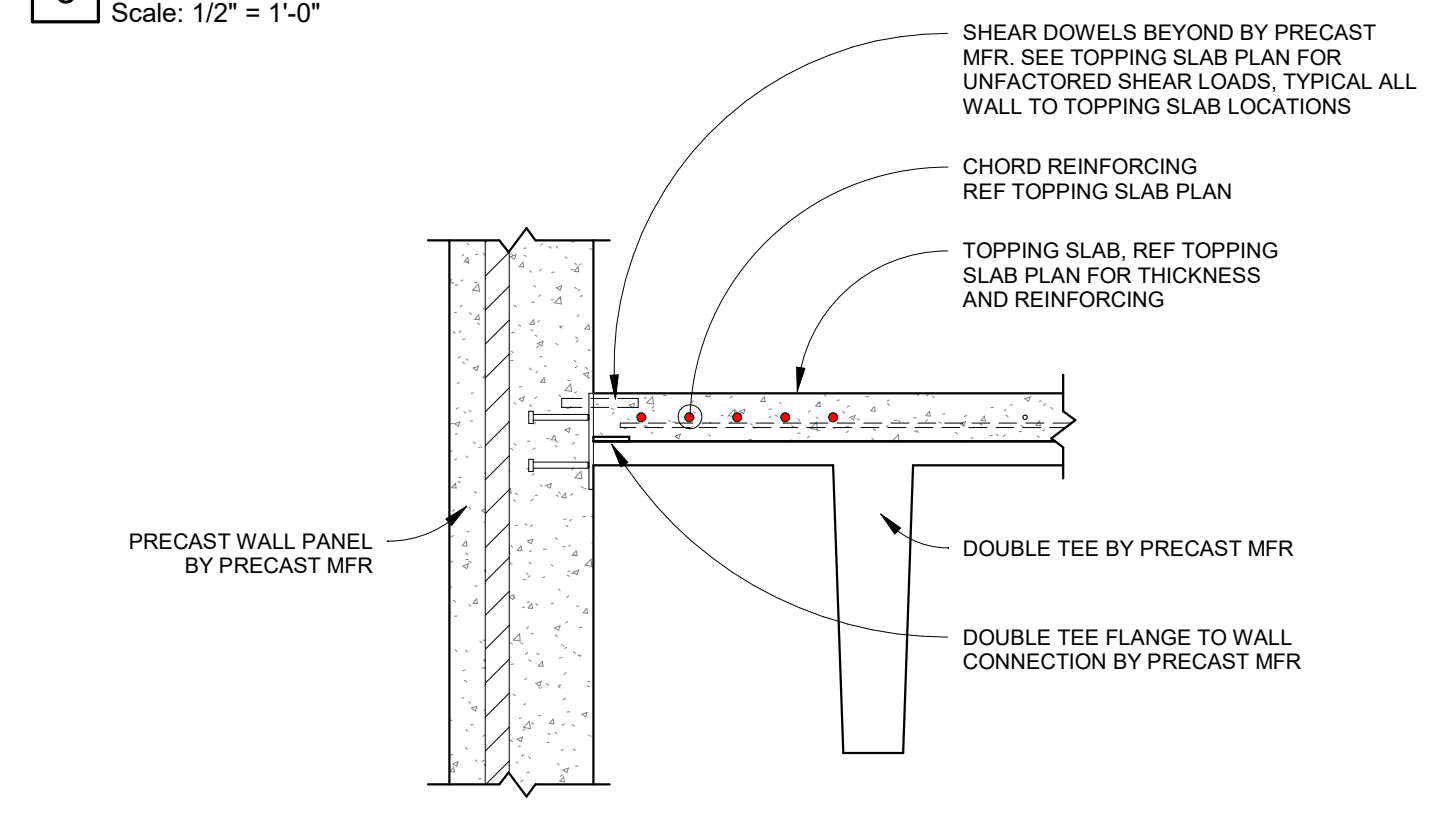
6 05305 LIGHT GAGE JOIST TO CONCRETE WALL
Scale: 3/4" = 1'-0"



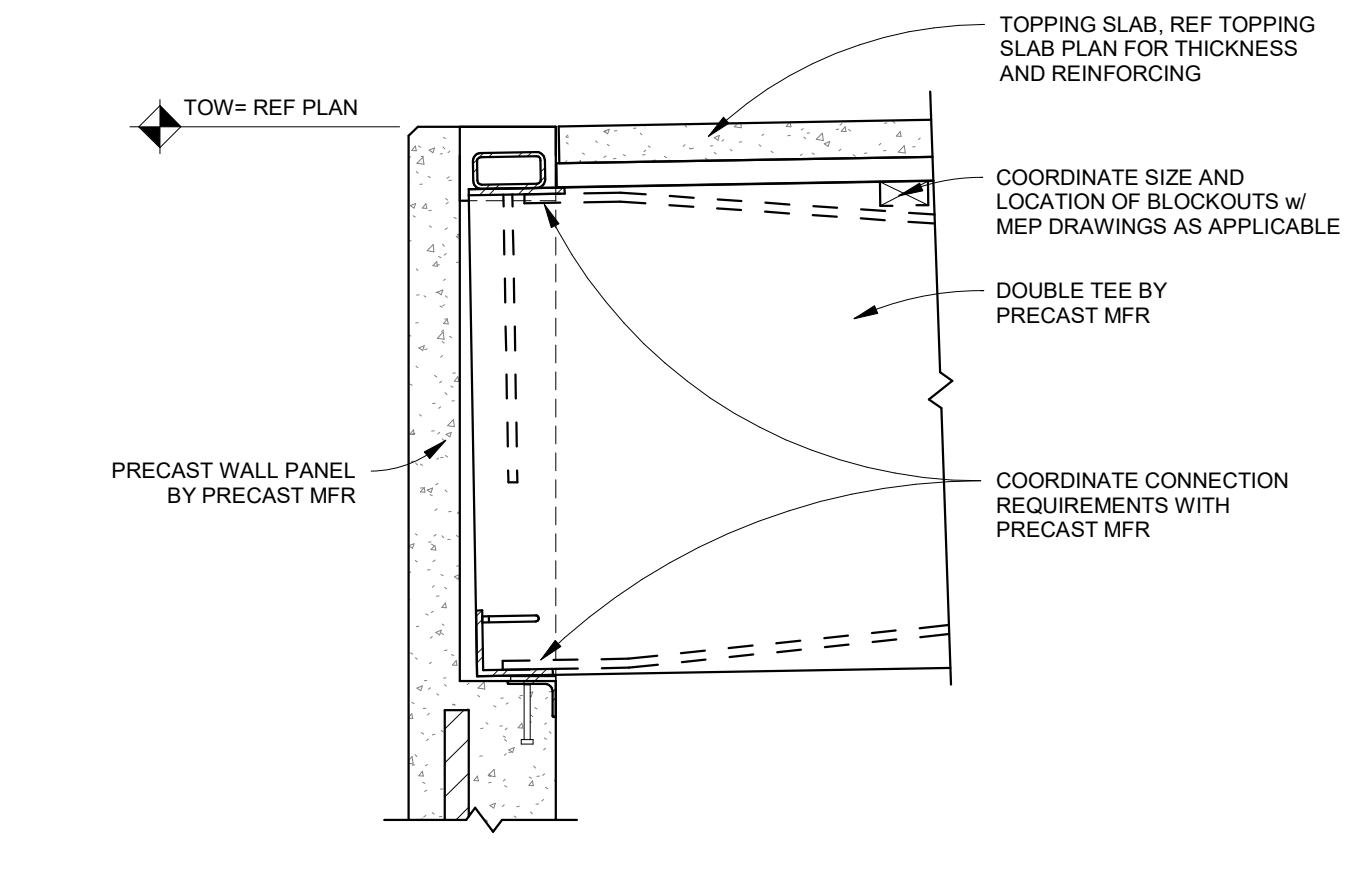
5 CORNER DETAIL AT CHORD REINFORCING
Scale: 1/2" = 1'-0"



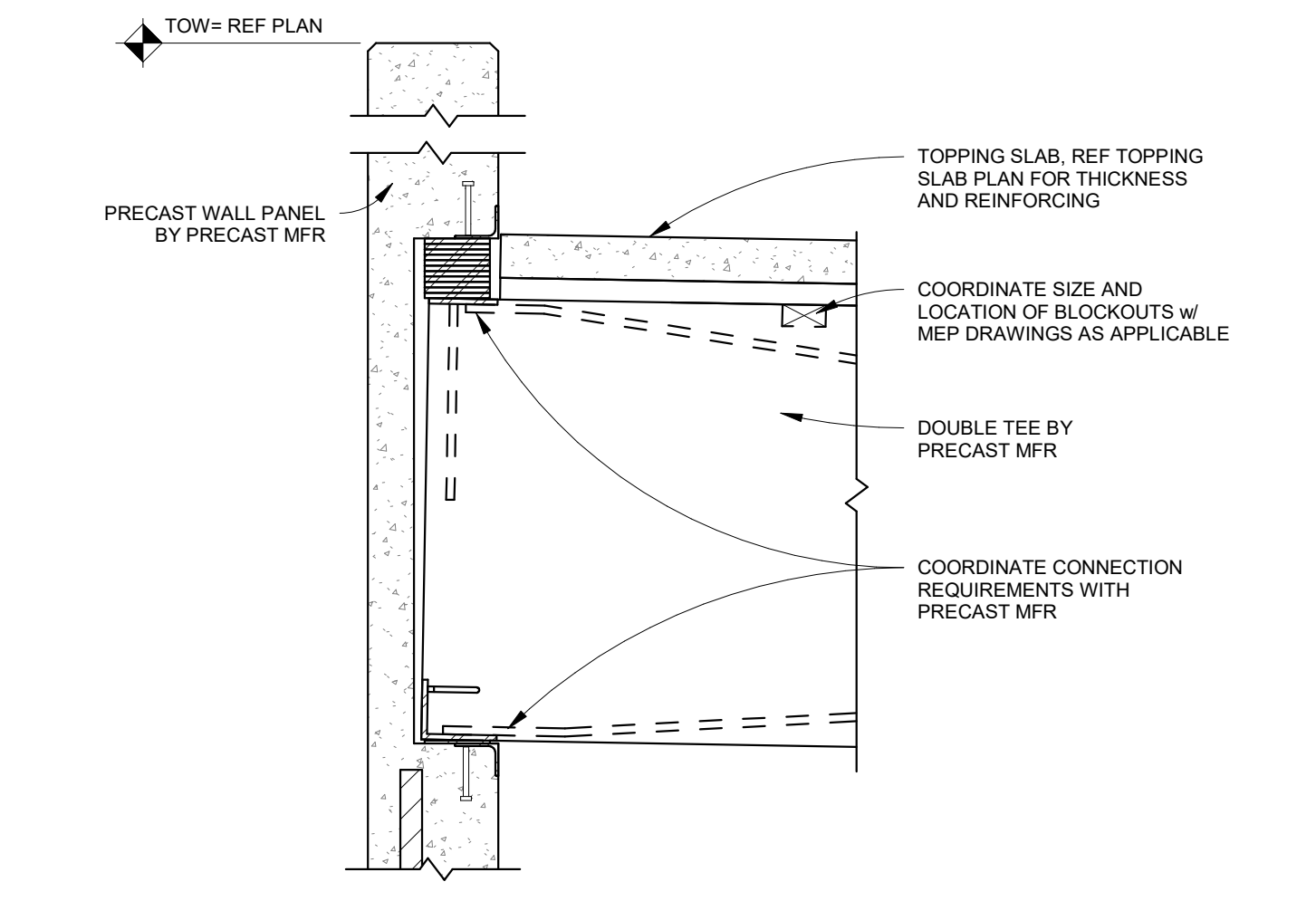
4 LIGHT GAGE CONNECTION TO STEEL BEAM
Scale: 3/4" = 1'-0"



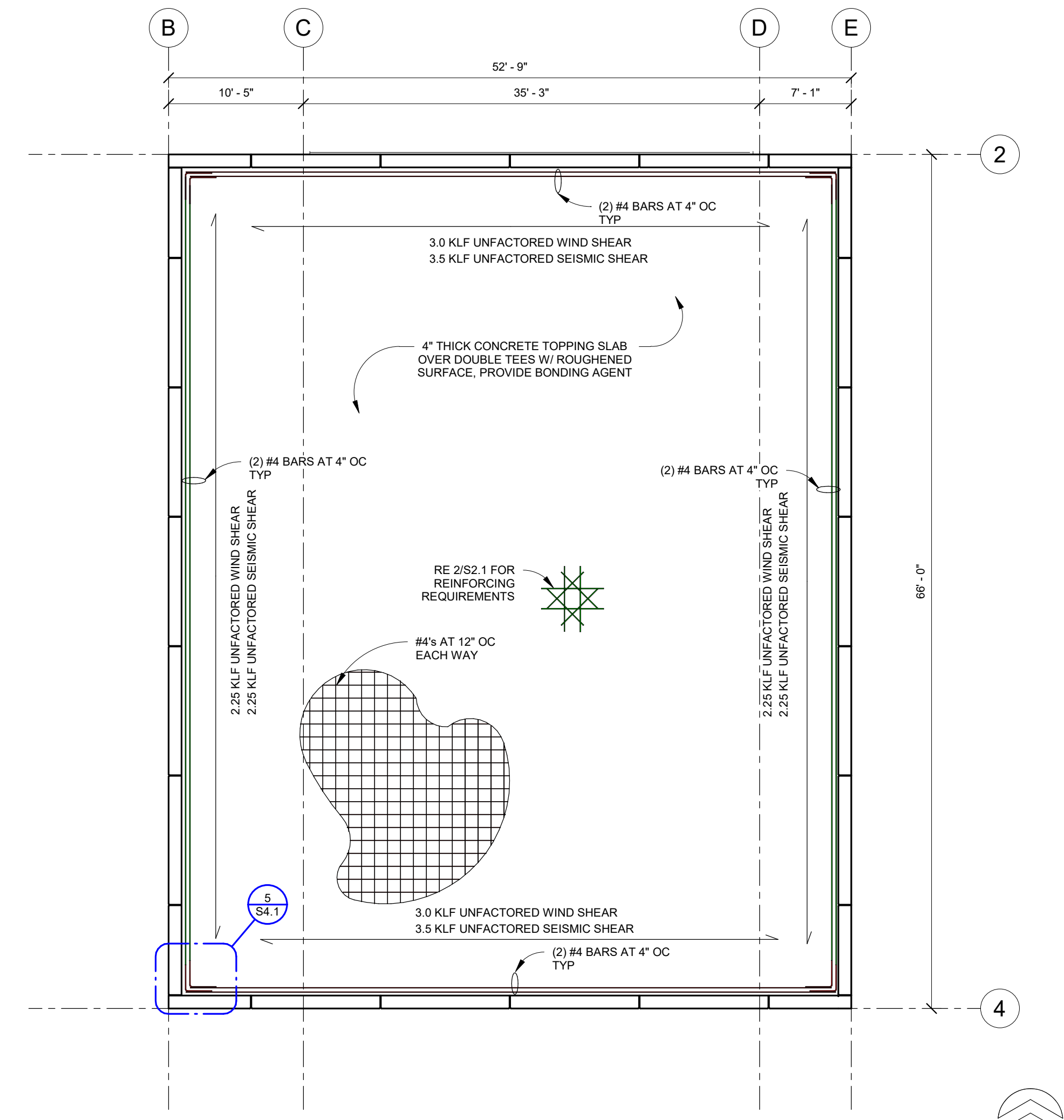
3 05206 DOUBLE TEE FLANGE TO WALL CONNECTION W/ TOPPING SLAB
Scale: 3/4" = 1'-0"



2 05205 PRECAST DOUBLE TEE LOW END CONNECTION W/ TOPPING SLAB
Scale: 3/4" = 1'-0"



1 05204 PRECAST DOUBLE TEE HIGH END CONNECTION W/ TOPPING SLAB
Scale: 3/4" = 1'-0"



9 TOPPING SLAB PLAN
Scale: 1/8" = 1'-0"

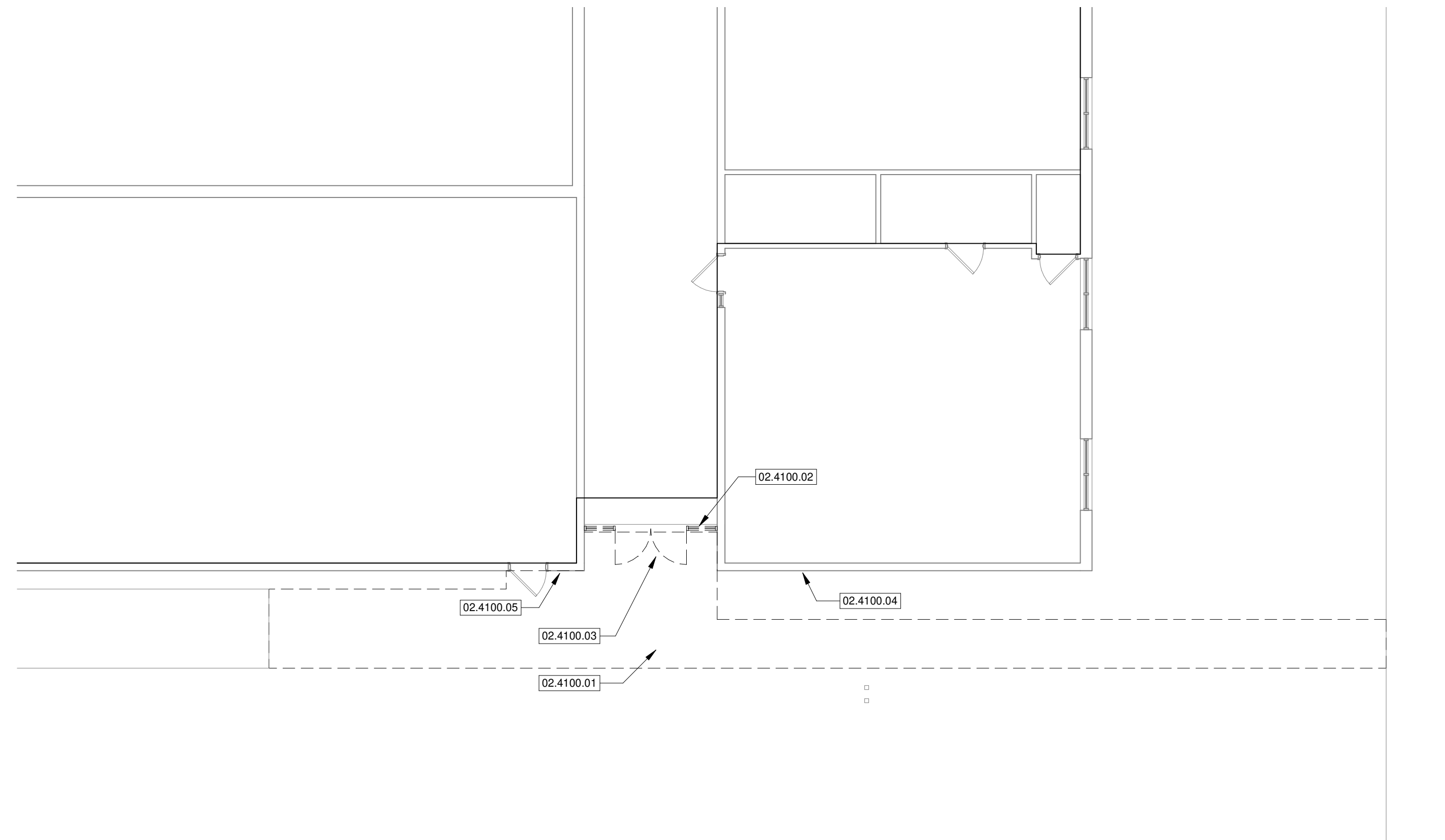


KEYNOTE LEGEND	
02.4100.01	DEMO PORTION OF EXISTING SIDEWALK. SEE CIVIL FOR EXTENTS.
02.4100.02	DEMO EXISTING STOREFRONT. PATCH AND REPAIR JAMBS AND FLOORING AS REQUIRED. PREPARE FLOOR FOR NEW FINISH.
02.4100.03	DEMO EXTERIOR SOFFIT. PREPARE FOR NEW A.C.T. CEILING. SEE RCP FOR MORE INFORMATION.
02.4100.04	REMOVE EXISTING EXTERIOR SPEAKER. PATCH AND REPAIR CMU. PREPARE SURFACE FOR NEW FINISH SEE FINISH PLAN FOR MORE INFORMATION.
02.4100.05	REMOVE EXISTING EXTERIOR LIGHT FIXTURE. PATCH AND REPAIR CMU. PREPARE SURFACE FOR NEW FINISH SEE FINISH PLAN FOR MORE INFORMATION.



4 DEMOLITION REFERENCE PHOTO - ART ROOM INTERIOR
NTS

2 DEMOLITION REFERENCE PHOTO - SOUTH EAST CORNER
NTS



DEMOLITION GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY PARTITIONS AND TEMPORARY DOORS AS DEEMED NECESSARY BY THE ARCHITECT, ENGINEER AND OWNER. THEY SHALL BE WELL MAINTAINED AND ANY DAMAGE REPAIRED IMMEDIATELY TO AVOID MIGRATION OF DUST INTO ADJOINING AREAS. CONTRACTOR SHALL ERRECT AND MAINTAIN TEMPORARY DUST PROOF PARTITIONS TO LIMIT DUST AND NOISE FROM ENTERING OCCUPIED SPACES. DUST PROOF PARTITIONS SHALL BE CONSTRUCTED WITH WOOD STUD FRAMING, PLYWOOD, BATT INSULATION, AND VISQUEEN.
- THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK IN OCCUPIED (INCLUDING ABOVE AND BELOW) SPACES AND SHALL NOTIFY THE OWNER TWO WEEKS PRIOR TO COMMENCING WORK. SUCH SPACES ARE TO REMAIN OCCUPIED DURING DEMOLITION AND ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE DISRUPTIONS TO OCCUPANTS. PROTECT EXISTING FLOOR FINISHES FROM CONSTRUCTION TRAFFIC THROUGH OCCUPIED AREAS. EXISTING WALL, FLOOR AND CEILING FINISHES TO REMAIN SHALL BE PROTECTED AND ANY DAMAGE RESULTING FROM DEMOLITION WORK SHALL BE REPAIRED.
- EACH CONTRACTOR WILL BE EXPECTED TO STOP WORK IN AREAS ADJACENT TO OCCUPIED SPACES WHEN CONSTRUCTION NOISE, ODORS, AND/OR DUST INTERRUPTS NORMAL BUILDING OCCUPANCY.
- MAINTAIN PATH OF EGRESS AT ALL TIMES DURING CONSTRUCTION FOR EXISTING BUILDING OCCUPANTS. A MINIMUM CLEAR PATH OF EGRESS OF 4'-0" SHALL BE ENFORCED AT ALL TIMES.
- WHEN DEMOLITION CAUSES DAMAGE TO FLOOR, WALL OR CEILING SURFACES THAT WILL REMAIN EXPOSED IN THE FINISHED WORK, SUCH DAMAGE SHALL BE REPAIRED AS REQUIRED TO RECEIVE NEW FINISHES.
- CONTRACTOR SHALL PROTECT ANY WALLS, DOORS, HARDWARE, LIGHTS, FIXTURES, FINISHES, CEILINGS, WINDOWS OR GLASS IN DOORS OR ANY OTHER EXISTING ELEMENTS TO REMAIN AND/OR DIRECTLY ADJACENT TO CONSTRUCTION AREAS. PROTECTION SHALL INCLUDE PLYWOOD OR OTHER SOLID PROTECTION TO PREVENT DAMAGE TO GLASS BY DEBRIS.
- THE CONTRACTOR SHALL COVER AND PROTECT OWNER'S EQUIPMENT WHICH CANNOT BE REMOVED FROM THE PROJECT AREA.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH ANY PHASING REQUIRED TO COMPLETE THE WORK.
- WHERE EXTERIOR WALLS, DOORS AND/OR WINDOWS ARE TO BE REMOVED OR MODIFIED, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT THE EXISTING BUILDING REMAINS SECURE, WEATHER-TIGHT, AND WITHOUT DRAFTS.
- MAKE ALL DEMOLITION CLEAN AND COMPLETE AND IN A MANNER SUITABLE TO ACCEPT NEW FINISHES AND/OR SURFACES.
- REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. THE CONTRACTOR SHALL DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER FOR FUTURE USE. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, THE CONTRACTOR SHALL PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES.
- DEMOLITION FOR BUILDING SERVICES AND UTILITIES SHALL BE PERFORMED BY THE TRADE RESPONSIBLE FOR THAT UTILITY. FOR EXAMPLE, PLUMBING FIXTURES SHALL BE DEMOLISHED BY THE PLUMBING CONTRACTOR. OPENINGS FOR DEMOLISHED UTILITIES SHALL BE FILLED BY TRADE RESPONSIBLE FOR PIPING, DUCT OR CONDUIT DEMOLITION. OPENINGS THROUGH FIRE-RATED CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION OR BE FIRESTOPPED.
- REROUTE OR TERMINATE ALL CONNECTIONS OF BUILDING SYSTEMS PRIOR TO DEMOLITION. EXISTING BUILDING SYSTEMS SHALL REMAIN ACTIVE AT ALL TIMES OF REGULAR BUILDING USE UNLESS PROPERLY SCHEDULED. TEMPORARY SHUTDOWNS IS COORDINATED AND APPROVED BY OWNER, CONSTRUCTION MANAGER, AND CONTRACTOR.
- IF CONTRACTOR ENCOUNTERS DEMOLITION WHICH IS STRUCTURAL AND OR LOAD BEARING THAT HAD NOT BEEN IDENTIFIED IN DRAWINGS, THE CONTRACTOR MUST CONTACT ARCHITECT IMMEDIATELY.
- PROVIDE TEMPORARY SHORING OR BRACING OF EXISTING STRUCTURAL SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION.
- SEE FLOOR PLANS, ELEVATIONS, DETAILS, AND OTHER DRAWINGS INCLUDED HEREIN FOR NEW CONSTRUCTION AND ITS EFFECT ON DEMOLITION ITEMS DESCRIBED HEREIN.
- SEE SPECIFICATIONS FOR DISPOSAL OR SALVAGE OF ALL DEMOLISHED MATERIALS AND DEBRIS. ALL DEMOLISHED ITEMS AND MATERIALS THAT ARE NOT TURNED OVER TO OWNER SHALL BE REMOVED FROM THE BUILDING AND PROJECT SITE AND DISPOSED OF OFF-SITE IN A PROPER AND LEGAL MANNER.
- DEMOLITION IDENTIFIED AS "COMPLETE" ARE TO BE FULLY DEMOLISHED INCLUDING ASSOCIATED FASTENERS, MASTIC, BLOCKING, AND ACCESSORIES TO THAT ITEM(S).
- ANY ITEM(S) INDICATED TO BE SALVAGED FOR REINSTALLATION OR TURNED OVER TO OWNER SHOULD BE PHOTOGRAPHED AND COPIES OF THE PHOTOGRAPHS SENT TO THE ARCHITECT AND OWNER WITHIN 10 DAYS OF REMOVAL. ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND PROPERLY STORED BY CONTRACTOR UNTIL TURNED OVER TO OWNER. COORDINATE STORAGE AND TIMELINE OF TURNING OVER THE SALVAGED ITEMS TO OWNER WITH OWNER.
- IF CONTRACTOR ENCOUNTERS HAZARDOUS MATERIALS, WORK IN AREA IS TO BE SUSPENDED AND CONTRACTOR MUST NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY FOR MATERIAL TESTING.

3 DEMOLITION REFERENCE PHOTO - UTILITY LINE
SCALE 3" = 1'-0"

1 DEMOLITION PLAN FIRST LEVEL
SCALE 1/8" = 1'-0"

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON

ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

REVISION SCHEDULE

PROJECT DESCRIPTION: **A0-0 CABOOL M.S. TORNADO SAFE ROOM DEMOLITION PLAN**

PROJECT NUMBER: 20-606

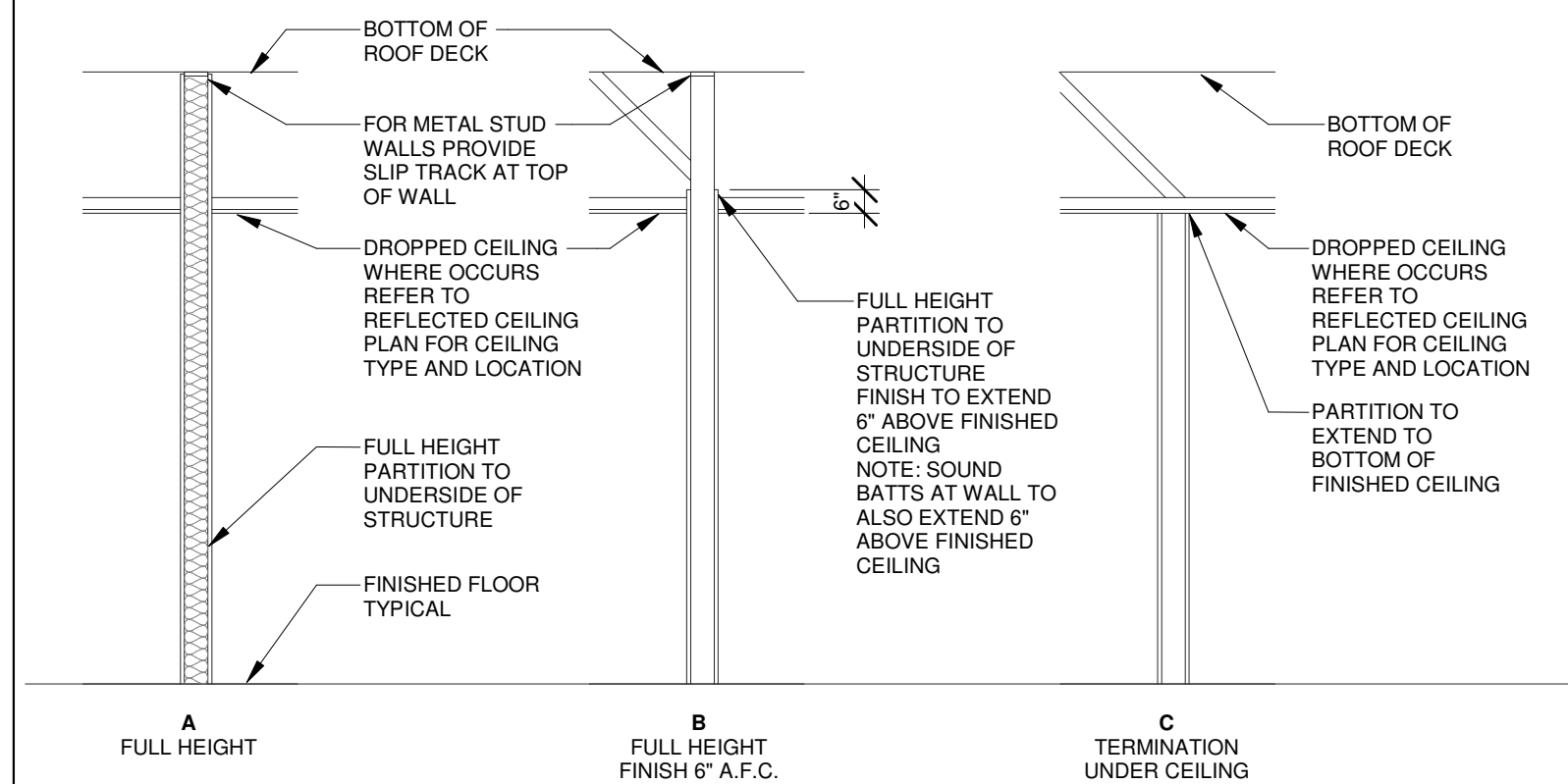
DATE: 08/16/2021

1025 ROGERS AVENUE
CABOOL, MISSOURI 65809

PROJECT ARCHITECT: JAY NSB
DRAWN BY: JAY NSB
CHECKED BY: JAY NSB

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM, IF CONTRACT IS IMPLIED (USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT), SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

TOP OF PARTITION LEGEND



EXTERIOR WALL SCHEDULE

TAG	ASSEMBLY DESCRIPTION
EX-10	EXTERIOR - HORIZONTAL METAL PANELS OVER 7/8" VERTICAL HAT CHANNELS @ 16" O.C. OVER MECHANICALLY FASTENED SHEET WEATHER BARRIER OVER FIRE RESISTANT WOOD SHEATHING OVER 6" METAL STUD FRAMING @ 16" O.C. OVER 5/8" GYPSUM BOARD - INTERIOR.
EX-11	EXTERIOR - HORIZONTAL METAL PANELS OVER 7/8" VERTICAL HAT CHANNELS @ 16" O.C. OVER PRECAST STRUCTURAL PANELS. METAL WALL PANELS TO HAVE FACTORY FABRICATED CORNERS AND TRIM.
EX-13	12" INSULATED PRECAST CONCRETE PANEL.

PARTITION TYPE SCHEDULE

TAG	CONSTRUCTION DESCRIPTION	WIDTH	UL RATING	STC	SOUND BATT
00.02	3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE	4 1/4"		50	Y
00.03	6" METAL STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD BOTH SIDES	7 1/4"		50	Y
00.04	6" METAL STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE	6 5/8"			

KEYNOTE LEGEND

10.4400.01	FIRE EXTINGUISHER AND CABINET - SEE SPECIFICATIONS.
23.7000.01	NEW GROUND-MOUNTED PACKAGED UNITS - SEE MECHANICAL FOR MORE INFORMATION.
32.0000.01	CONCRETE BOLLARDS - SEE CIVIL.
32.3119.01	BID ALTERNATE: EXTERIOR MECHANICAL EQUIPMENT ENCLOSURE. STRUCTURE TO BE DESIGNED BY FENCING MANUFACTURER - SEE SPECIFICATIONS.

FLOOR PLAN GENERAL NOTES

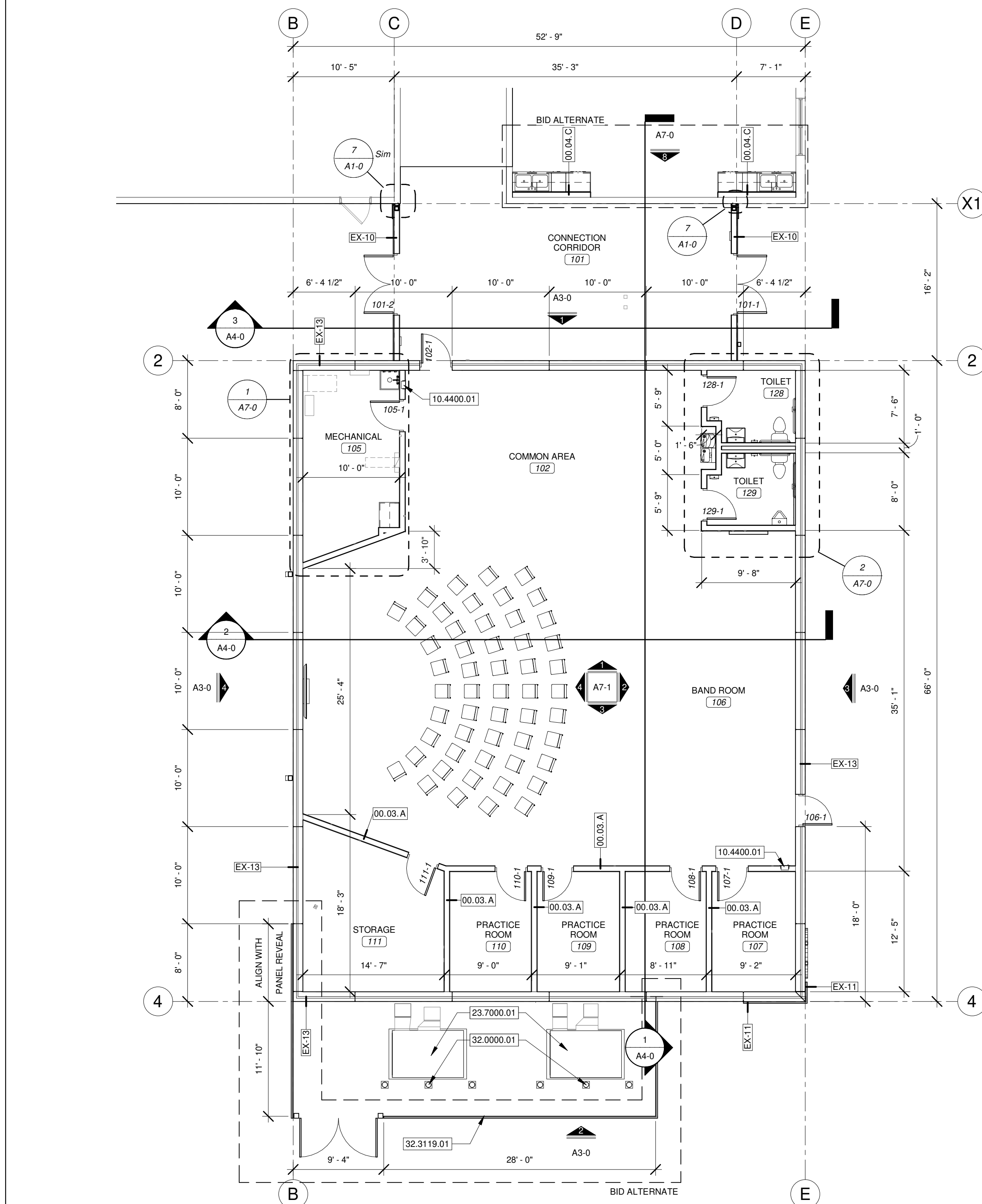
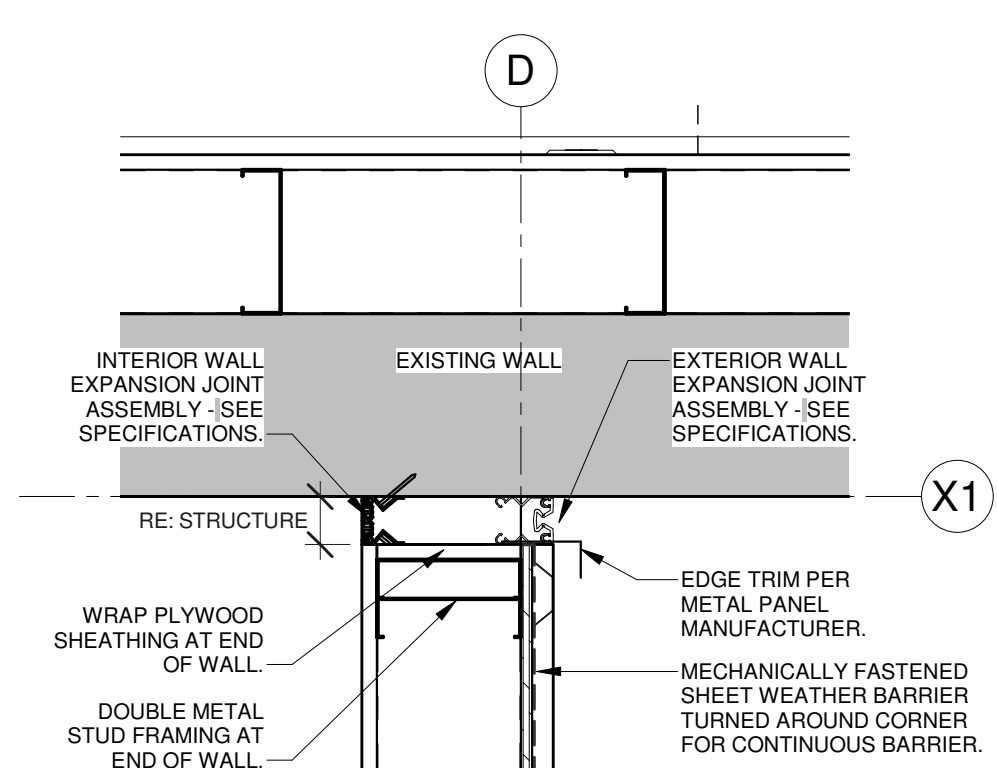
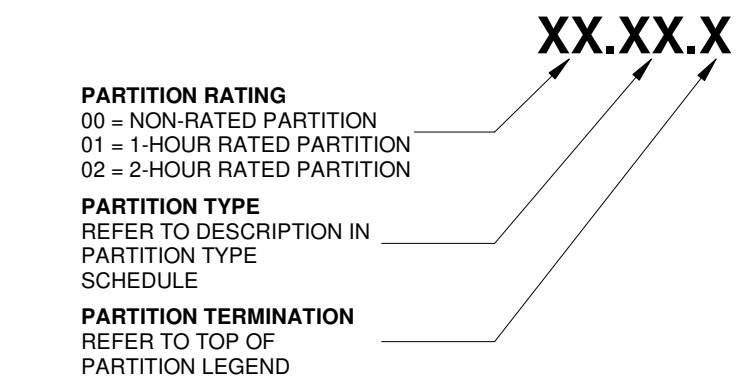
- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE +/- AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
- GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
- PROVIDE SOLID WOOD BLOCKING AS REQUIRED TO INSTALL EQUIPMENT, CASEWORK ETC. VERIFY WITH OWNER FOR ALL ADDITIONAL OWNER FURNISHED ITEMS THAT REQUIRE BLOCKING.
- BUILDING IS TO BE STAKED OUT ON SITE BY A REGISTERED LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION TO VERIFY THAT NO CONFLICTS EXIST BETWEEN PROPOSED CONSTRUCTION AND PROPERTY SETBACKS, EASEMENTS, EXISTING STRUCTURES OR OTHER PHYSICAL OBJECTS ON SITE. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS OR VARIATIONS FROM PLANS.
- ALL GLASS IN DOORS, ADJACENT OR WITHIN 12" OF DOORS HORIZONTALLY, WITHIN 36" OF STAIRS OR CLOSER THAN 18" TO FLOOR TO BE TEMPERED PER CODE (IBC ADOPTED EDITION).
- INTERIOR DOORS TO BE LOCATED 5" AWAY FROM ADJACENT CORNERS, UNLESS NOTED OR DIMENSIONED OTHERWISE.
- SEE STRUCTURAL DRAWINGS FOR ALL HEADER, BOND BEAM, LINTEL, COLUMN, AND OTHER STRUCTURAL REQUIREMENTS.
- SEE CODE COMPLIANCE PLAN FOR FIRE EXTINGUISHER AND SIGNAGE REQUIREMENTS AND LOCATIONS.
- FINISH FLOOR ELEVATION INDICATED ON ARCHITECTURAL DRAWINGS IS AT ELEVATION 100'-0". SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.

PARTITION TYPE GENERAL NOTES

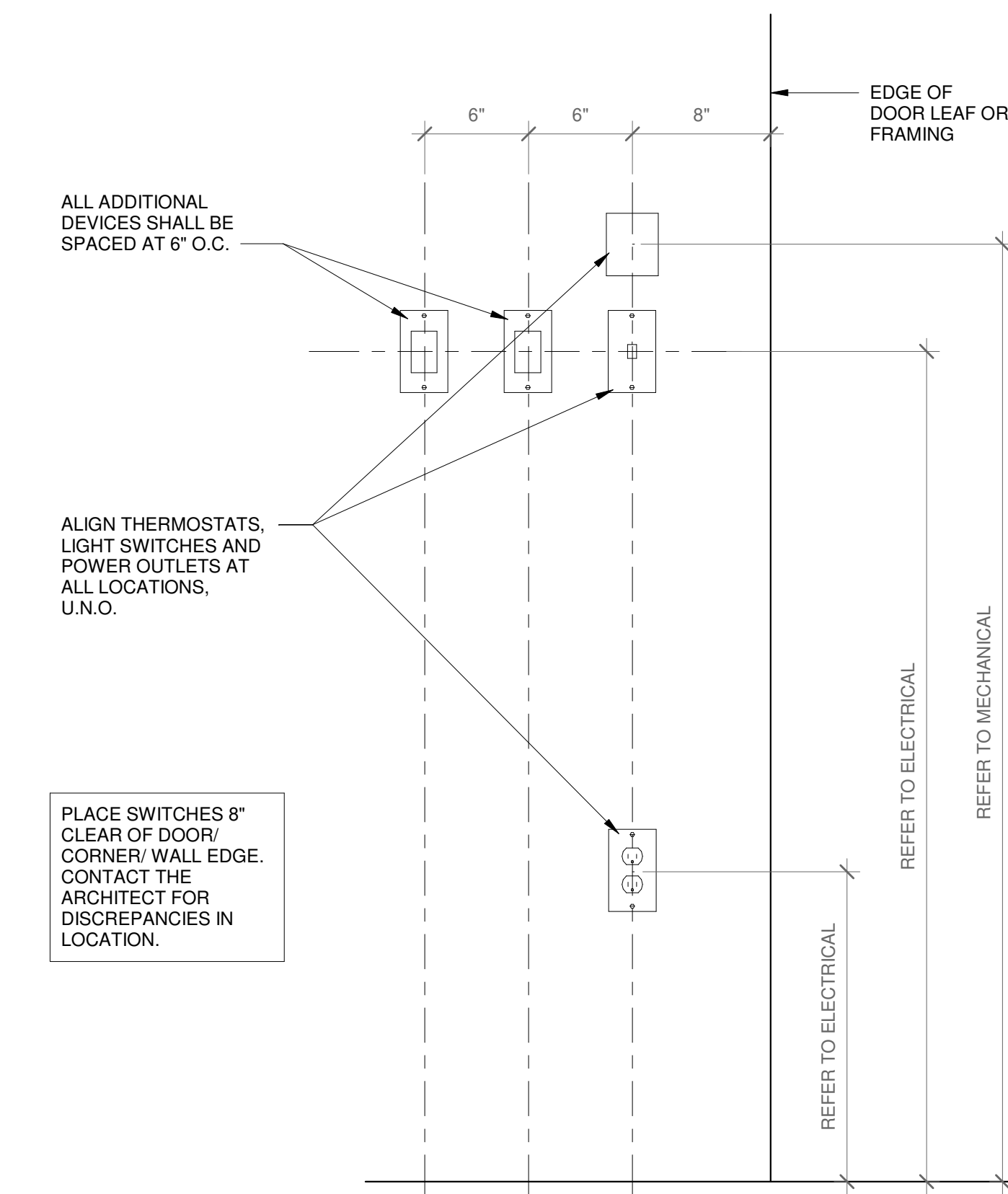
- EXTERIOR WALL CONSTRUCTION IS DESCRIBED IN WALL SECTIONS. INTERIOR WALL TYPES ARE DESCRIBED BY THEIR DENOTED WALL TYPES / WALL SECTIONS HEREIN.
- ANY WALL CONSTRUCTION NOT NOTED WITH A PARTITION TYPE WALL TAG SHALL BE CLARIFIED FOR INTERPRETATION BY THE ARCHITECT PRIOR TO BIDDING.
- THESE WALL SECTIONS INDICATE PRIMARY WALL TYPE, OVERLAP, VENEERS, WAINSCOT, PLASTERS, PAINT, WALL COVERINGS ETC. ARE INDICATED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS, SCHEDULES, SPECIFICATIONS OR OTHER DETAILS.
- INTERIOR NON-LOAD BEARING WALLS SHALL BE INSTALLED PER METAL STUD MANUFACTURER'S LIMITING HEIGHT / GAGE INFORMATION. INTERIOR WALL FRAMING TO ACCOMMODATE A LATERAL LOAD OF 7-1/2 POUNDS PER SQUARE FOOT (PSF) WITH A DEFLECTION LIMIT OF L/240.
- DESIGN OF LIGHT-GAUGE METAL FRAMING (INCLUDING ALL LOAD BEARING AND NON LOAD BEARING WALLS) AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS & CALCULATIONS SIGNED & SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR THE GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZE OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE MEMBERS AND THEIR CONNECTIONS.
- CONTRACTOR SHALL COORDINATE WALL FRAMING ABOVE FINISHED CEILINGS WITH FRAMING, PLUMBING, AND HVAC CONTRACTORS. FRAMING CONTRACTOR SHALL PROVIDE NECESSARY ROUGH OPENING FRAMING REQUIRED TO FACILITATE PIPING OR DUCTWORK PENETRATIONS. REFER TO MEP ENGINEERING DRAWINGS FOR LOCATIONS OF LOCATIONS OF NEW / EXISTING DUCTS, PIPING, ETC. SOME WALL FRAMING / BRACING MAY REQUIRE ADJUSTMENT OR RE-LOCATION TO ALLOW FOR DUCT / PIPE ROUTING.
- SEE INTERIOR ELEVATIONS FOR GYPSUM BOARD CONTROL JOINTS AND PROVIDE PER USG GOOD DESIGN PRACTICES (IF CONTROL JOINTS ARE NOT SHOWN) FOR DRYWALL STEEL FRAMED SYSTEMS AND DESIGN DETAILS THEREIN.
- ALL WALLS WITH PLUMBING FIXTURES AND WALLS ADJACENT TO PLUMBING FIXTURES SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYPSUM BOARD BOTH SIDES.
- SEE STRUCTURAL DRAWINGS, NOTES, AND DETAILS FOR ADDITIONAL STRUCTURAL CMU / STUD WALL INFORMATION - TYPICAL FOR ALL WALL TYPES.
- ASSEMBLIES SHALL BE AIRTIGHT. SEAL ALL PENETRATIONS AND CRACKS WITH ACOUSTICAL SEALANT OR FIRE RATED SEALANT AT FIRE RATED PARTITIONS. TOP (WHERE PARTITIONS EXTEND TO DECK ABOVE) AND BOTTOM OF PARTITIONS TO RECEIVE ACOUSTICAL SEALANT OR FIRE RATED SEALANT AT FIRE RATED PARTITIONS.
- RECESSED FIXTURES SUCH AS OUTLETS SHALL NOT BE PLACED BACK TO BACK IN THE SAME STUD CAVITY.
- SEE PARTITION SCHEDULE FOR SOUND BATT INSULATION LOCATIONS.
- PROVIDE 2X WOOD BLOCKING FOR ALL ACCESSORIES, EQUIPMENT, AND CASEWORK. SEE PLANS FOR LOCATIONS.

PARTITION TAG LEGEND

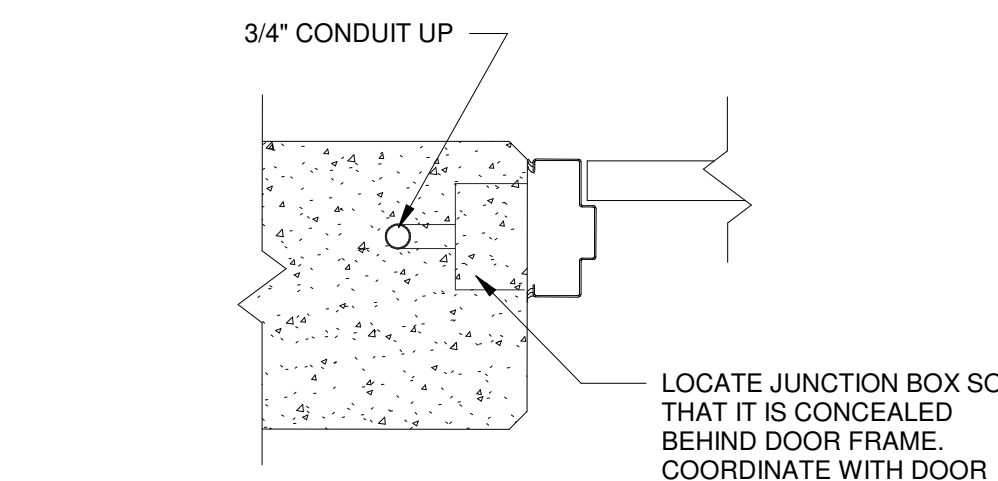
PARTITION TAG IS COMPRISED OF THREE PARTS AS NOTED BELOW:



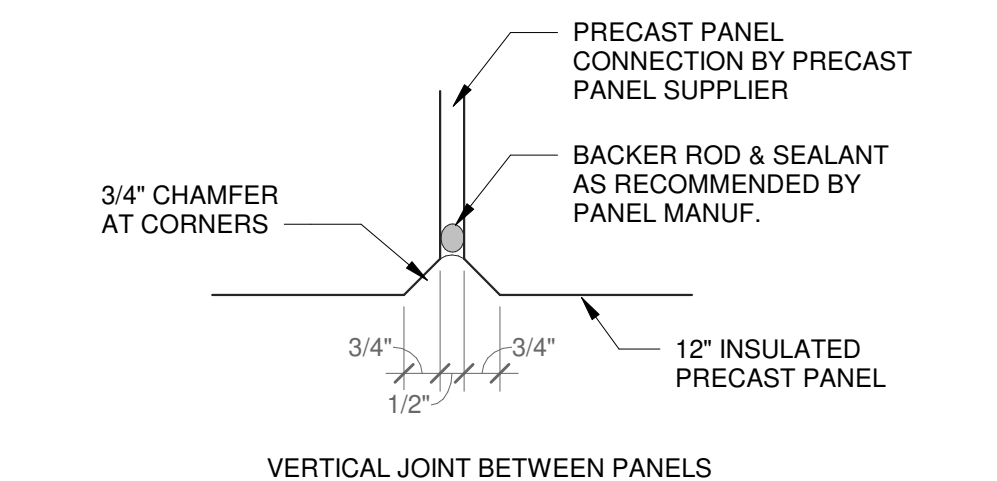
6 MAIN LEVEL FLOOR PLAN
SCALE 1/8" = 1'-0"



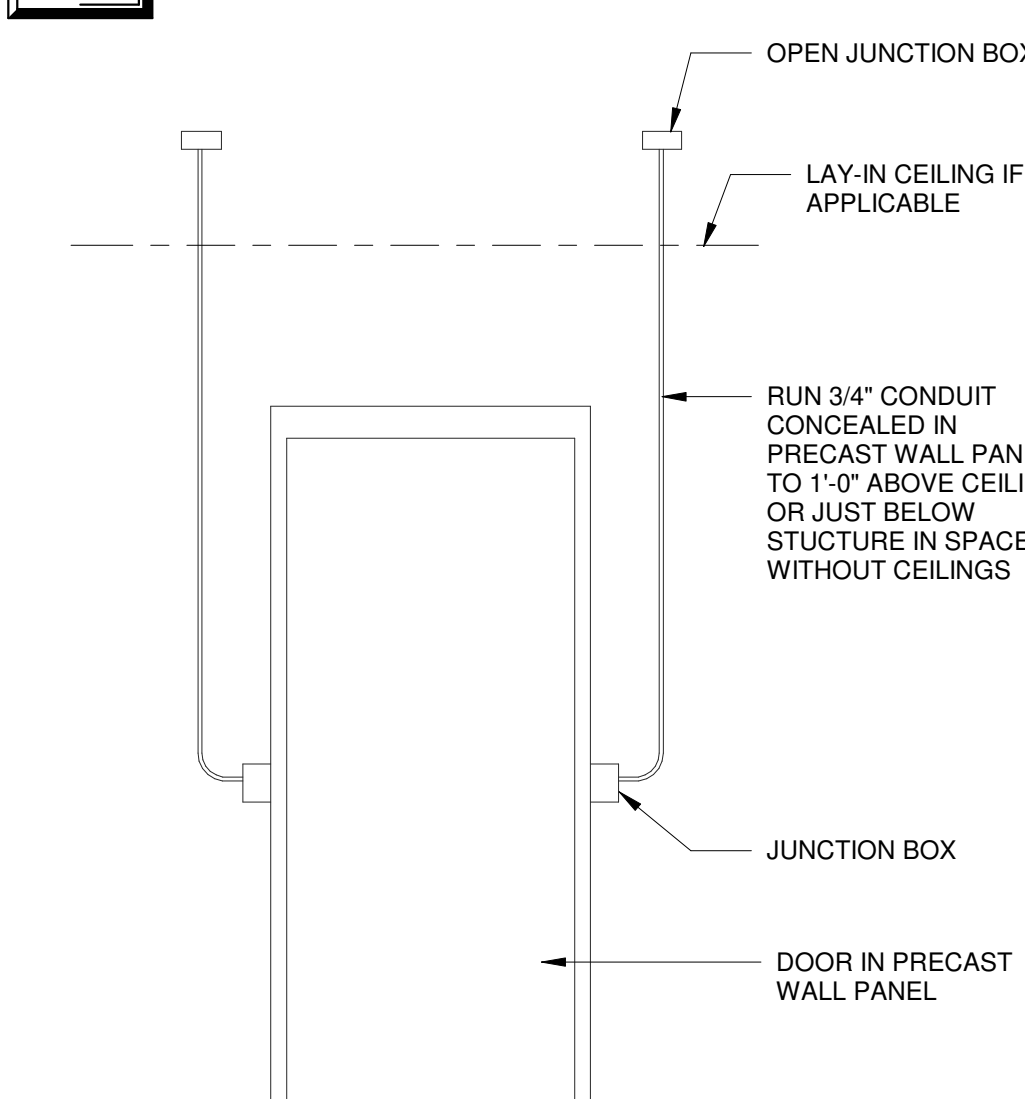
5 TYPICAL ELECTRICAL POWER DEVICE ELEVATION
SCALE 1 1/2" = 1'-0"



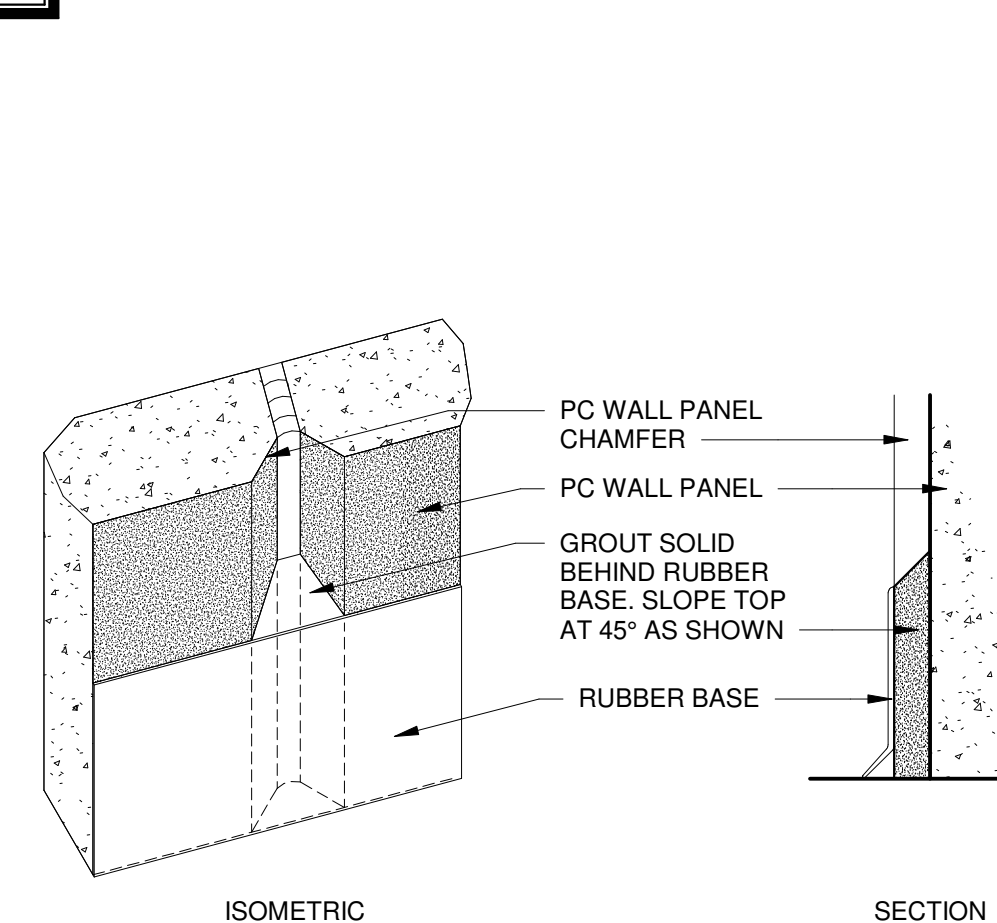
4 SECTION AT PRECAST DOOR JAMBS, TYP.
SCALE 1 1/2" = 1'-0"



2 PRECAST REVEAL/RECESS DETAIL
SCALE 3" = 1'-0"



3 ELEVATION AT PRECAST DOOR JAMBS, TYP.
SCALE 1/2" = 1'-0"



1 PRECAST BASE DETAILS
SCALE 3" = 1'-0"

7 EXPANSION JOINT DETAIL
SCALE 1 1/2" = 1'-0"



JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019202

8/31/21

STATE OF MISSOURI

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806

PH: 417.885.0002

www.paragonarchitecture.com

REVISION SCHEDULE

PROJECT DESCRIPTION:

A1-0 CABOOL M.S. TORNADO SAFE ROOM

FLOOR PLAN

PROJECT NUMBER:

20-606

DATE:

08/16/2021

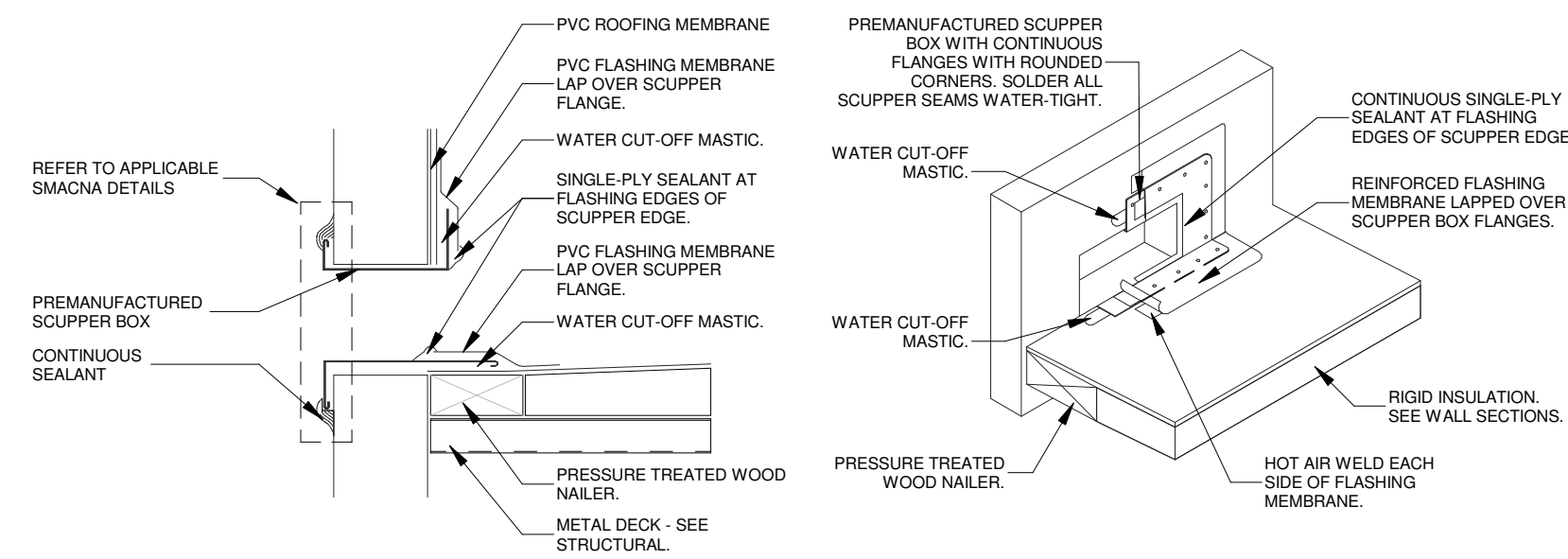
DRAWN BY:

JAY NSB

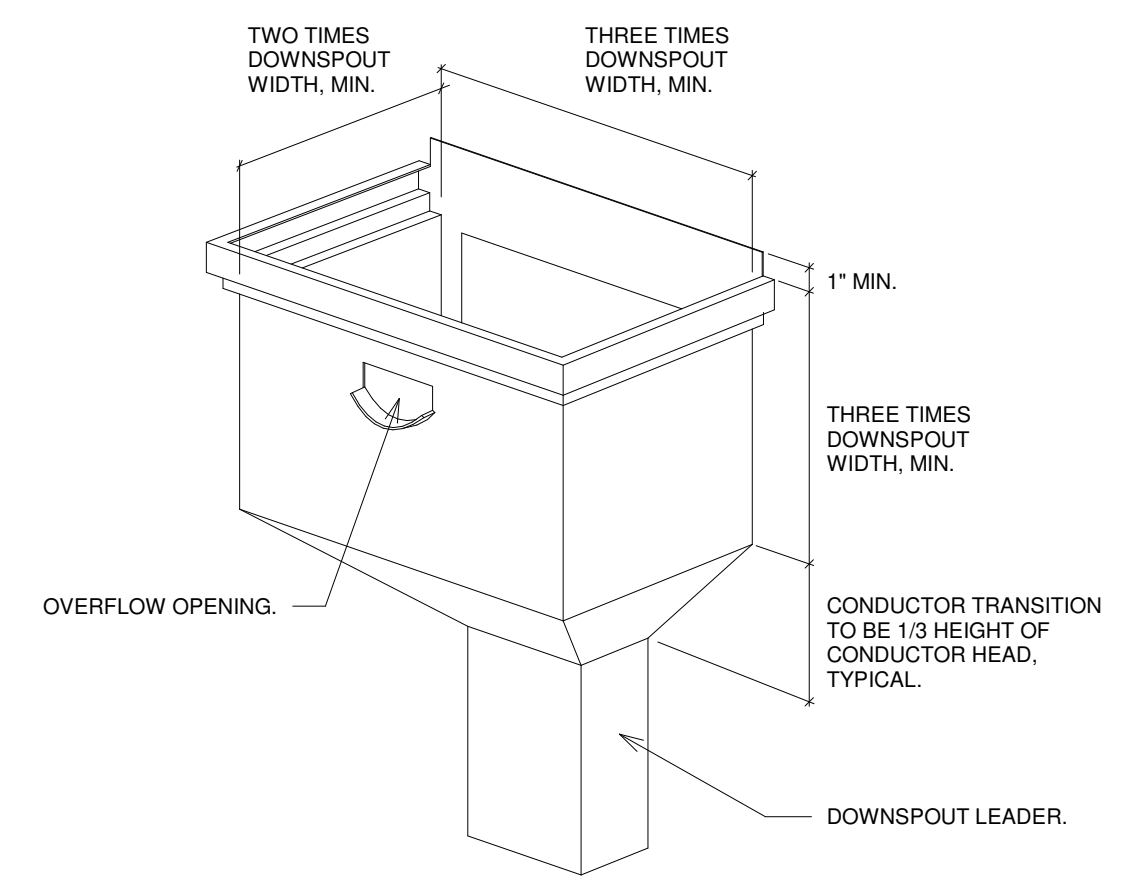
CHECKED BY:

PHY

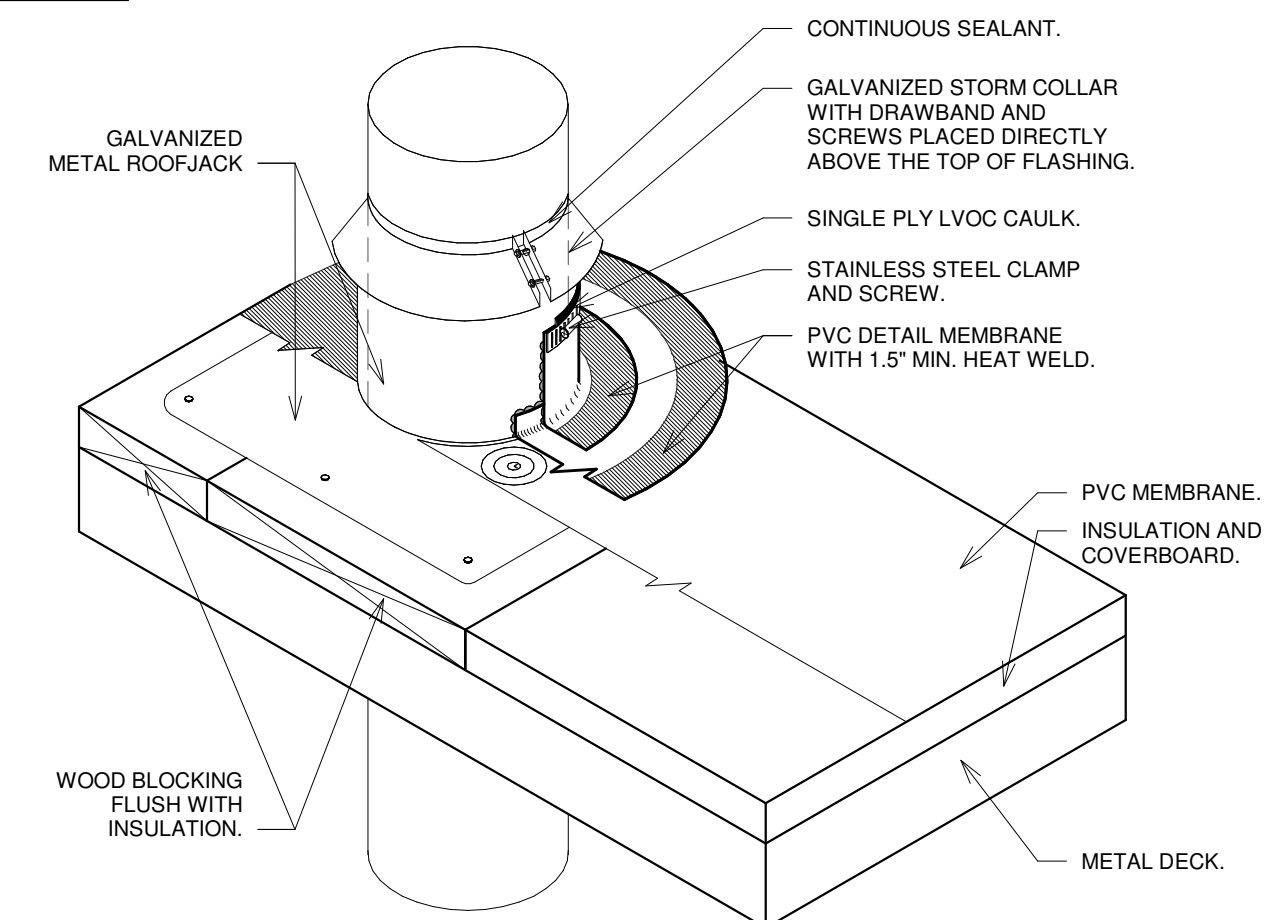
THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO CREDIT PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE) OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT. SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO CREDIT PARAGON ARCHITECTURE CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL WAIVE ALL RIGHTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.



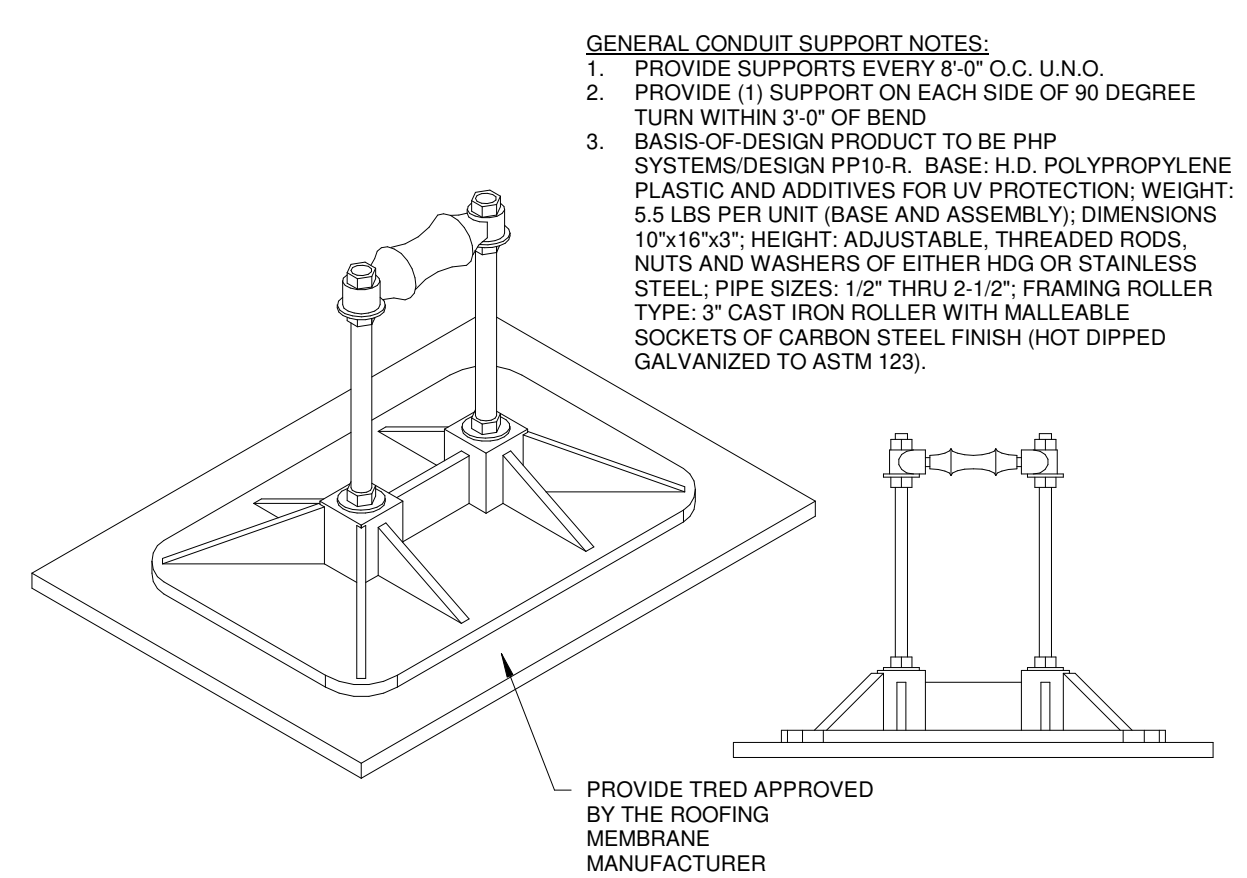
5 THRU WALL SCUPPER DETAIL
SCALE 1 1/2" = 1'-0"



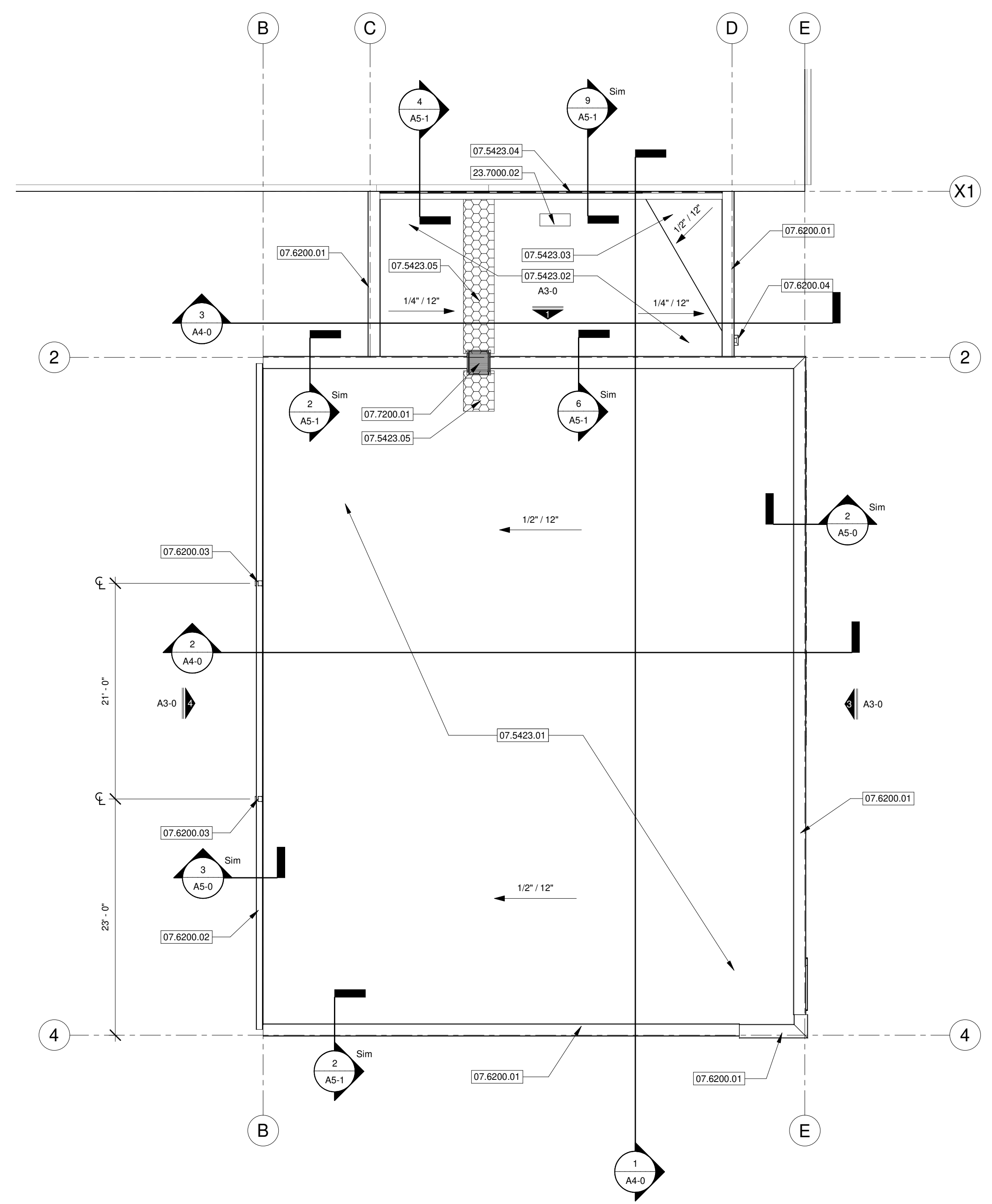
4 TYPICAL SCUPPER DETAIL
SCALE 1 1/2" = 1'-0"



3 PIPE PENETRATION DETAIL
SCALE 1 1/2" = 1'-0"



2 ROOF SUPPORT DETAIL - PIPE
SCALE 1 1/2" = 1'-0"



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

KEYNOTE LEGEND	
07.5423.01	TPO ROOFING MEMBRANE OVER 1/2" COVERBOARD OVER RIGID INSULATION (R-30, MIN.), STAGGER JOINTS AND ADHERE INSULATION OVER BASE SHEET OVER PRECAST DOUBLE-TEES - SEE SPECIFICATIONS.
07.5423.02	TPO ROOFING MEMBRANE OVER 1/2" COVERBOARD OVER RIGID INSULATION (R-30, MIN.), STAGGER JOINTS AND MECHANICALLY ATTACH TO METAL DECK - SEE SPECIFICATIONS.
07.5423.03	TPO ROOFING MEMBRANE OVER 1/2" COVERBOARD OVER TAPERED INSULATION, STAGGER JOINTS AND MECHANICALLY ATTACH TO METAL DECK - SEE SPECIFICATIONS.
07.5423.04	TPO ROOFING MEMBRANE EXPANSION JOINT - SEE WALL DETAILS.
07.5423.05	ROOF MEMBRANE WALKPAD - SEE SPECIFICATIONS.
07.6200.01	PREFINISHED METAL PARAPET PARAPET CAP - SEE WALL SECTIONS.
07.6200.02	PREFINISHED 6"X6" GUTTER - SEE SPECIFICATIONS.
07.6200.03	PREFINISHED 4"X5" DOWNSPOUT, DAYLIGHT AT GRADE - SEE SPECIFICATION.
07.6200.04	PREFINISHED SCUPPER AND CONDUCTOR CONNECTED TO 4X5 DOWNSPOUT - SIZE CONDUCTOR PER DETAIL, DAYLIGHT AT GRADE.
07.7200.01	BID ALTERNATE: PREMANUFACTURED ROOF ACCESS LADDER - SEE SPECIFICATION.
23.7000.02	NEW DUCTLESS CONDENSING UNIT - SEE MECHANICAL FOR MORE INFORMATION.

- ROOF PLAN GENERAL NOTES**
- ROOF MEMBRANE TO BE FULLY ADHERED TO SUBSTRATE BELOW, UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS.
 - ALL ROOF MATERIALS INCLUDING, BUT NOT LIMITED TO ROOF MEMBRANE, ROOF INSULATION, COVER BOARDS, COPINGS, AND FLASHING TO BE COMPLIANT WITH MANUFACTURER'S ROOF WARRANTY.
 - TAPERED ROOF INSULATION SHALL SLOPE NOT LESS THAN 1/4" PER FOOT.
 - ALL ROOF MEMBRANE TERMINATIONS AND FLASHING CONDITIONS SHALL CONFORM WITH MANUFACTURER'S RECOMMENDATIONS, TERMINATIONS AND FLASHING SHALL BE LOCATED 12" MINIMUM ABOVE TOP OF ROOF, UNLESS NOTED OTHERWISE.
 - ALL PENETRATIONS OF STRUCTURAL STEEL & VENTS SHALL CONFORM WITH MANUFACTURER'S RECOMMENDED DETAILS AND COMPLIANT WITH ROOF WARRANTY REQUIREMENTS.
 - REFER TO MECHANICAL, PLUMBING AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION AND ROOF PENETRATION REQUIREMENTS.

STATE OF MISSOURI
JARED A. YOUNGLOVE
ARCHITECT
NUMBER A-2017019282
8/31/21
JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON
ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

REVISION SCHEDULE

A2-0 CABOOL M.S. TORNADO SAFE ROOM
ROOF PLAN & DETAILS

PROJECT DESCRIPTION: CABOOL M.S. TORNADO SAFE ROOM
1025 ROGERS AVENUE, CABOOL, MISSOURI 65699
PROJECT ARCHITECT: JAY NSB
DRAWN BY: JAY NSB
CHECKED BY: PHY
PROJECT NUMBER: 20-606
DATE: 08/16/2021

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED (USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT), SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

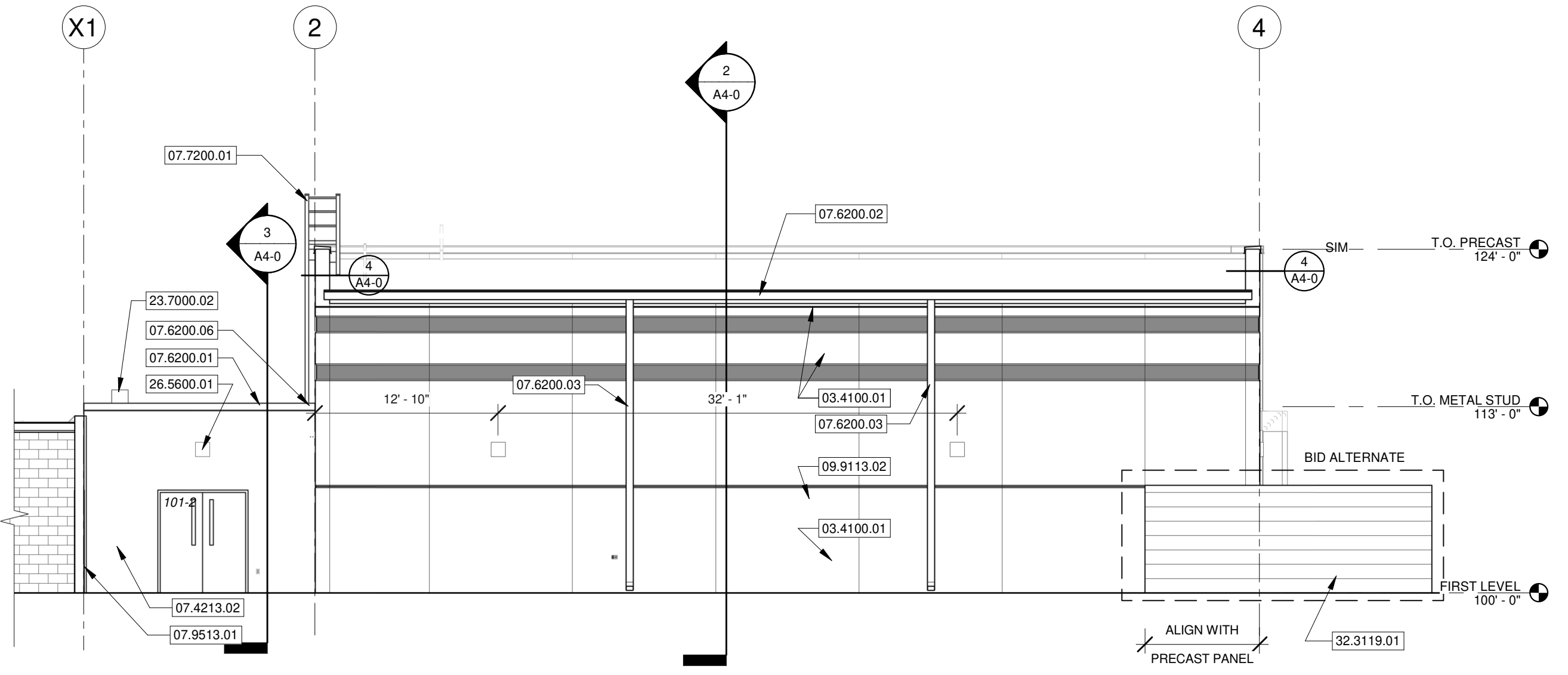
KEYNOTE LEGEND	
03.4100.01	STRUCTURAL PRECAST PANEL - SEE SPECIFICATION, MEDIUM SANDBLAST FINISH U.N.O.
07.4213.01	HORIZONTAL METAL WALL PANEL WITH STANDARD SHOP FABRICATED CORNERS AND TRIM OVER 28" SUBGRITS - SEE SPECIFICATIONS.
07.4213.02	HORIZONTAL METAL WALL PANELS WITH STANDARD SHOP FABRICATED CORNERS AND TRIM - SEE SPECIFICATIONS.
07.6200.01	PREFINISHED METAL PARAPET PARAPET CAP - SEE WALL SECTIONS.
07.6200.02	PREFINISHED 6"X6" GUTTER - SEE SPECIFICATIONS.
07.6200.03	PREFINISHED 4"X5" DOWNSPOUT, DAYLIGHT AT GRADE - SEE SPECIFICATION.
07.6200.04	PREFINISHED SCUPPER AND CONDUCTOR CONNECTED TO 4XS DOWNSPOUT - SIZE CONDUCTOR PER DETAIL, DAYLIGHT AT GRADE.
07.6200.05	TPO ROOFING MEMBRANE TERMINATION BAR AND COUNTERFLASHING REGLET - SEE WALL SECTION.
07.6200.06	TERMINATE COPING CAP FLASHING AT PRECAST PANEL. PROVIDE CONTINUOUS SEALANT TO PROMOTE POSITIVE DRAINAGE.
07.7200.01	BID ALTERNATE: FREEMANUFACTURED ROOF ACCESS LADDER - SEE SPECIFICATION.
07.9513.01	EXTERIOR WALL EXPANSION JOINT - SEE SPECIFICATIONS.
09.9113.01	PAINTED PRECAST PANEL REVEAL - SEE SPECIFICATIONS.
09.9113.02	HORIZONTAL JOINT PANEL REVEAL - SEE SPECIFICATIONS.
10.1400.01	60" DIMENSIONAL LETTERS, FONT STYLE TO BE COORDINATED WITH OWNER.
10.1400.02	24" DIMENSIONAL LETTERS, FONT STYLE TO BE COORDINATED WITH OWNER.
23.0000.01	HURRICANE LOUVER - SEE MECHANICAL FOR MORE INFORMATION.
23.7000.02	NEW DUCTLESS CONDENSING UNIT - SEE MECHANICAL FOR MORE INFORMATION.
26.5600.01	EXTERIOR LIGHTING - SEE ELECTRICAL FOR MORE INFORMATION.
32.3119.01	BID ALTERNATE: EXTERIOR MECHANICAL EQUIPMENT ENCLOSURE STRUCTURE TO BE DESIGNED BY FENCING MANUFACTURER - SEE SPECIFICATIONS.



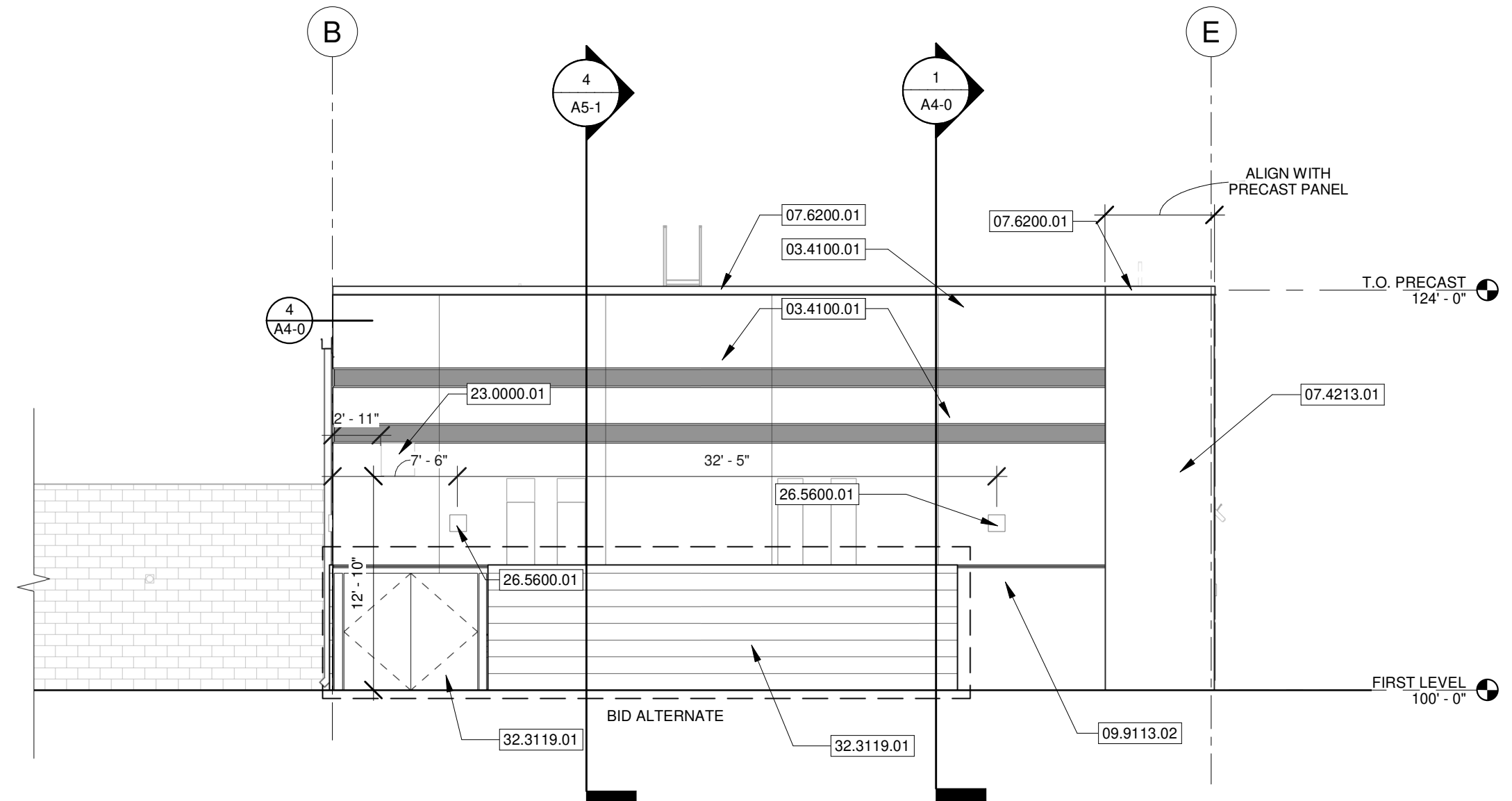
MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON
ARCHITECTURE

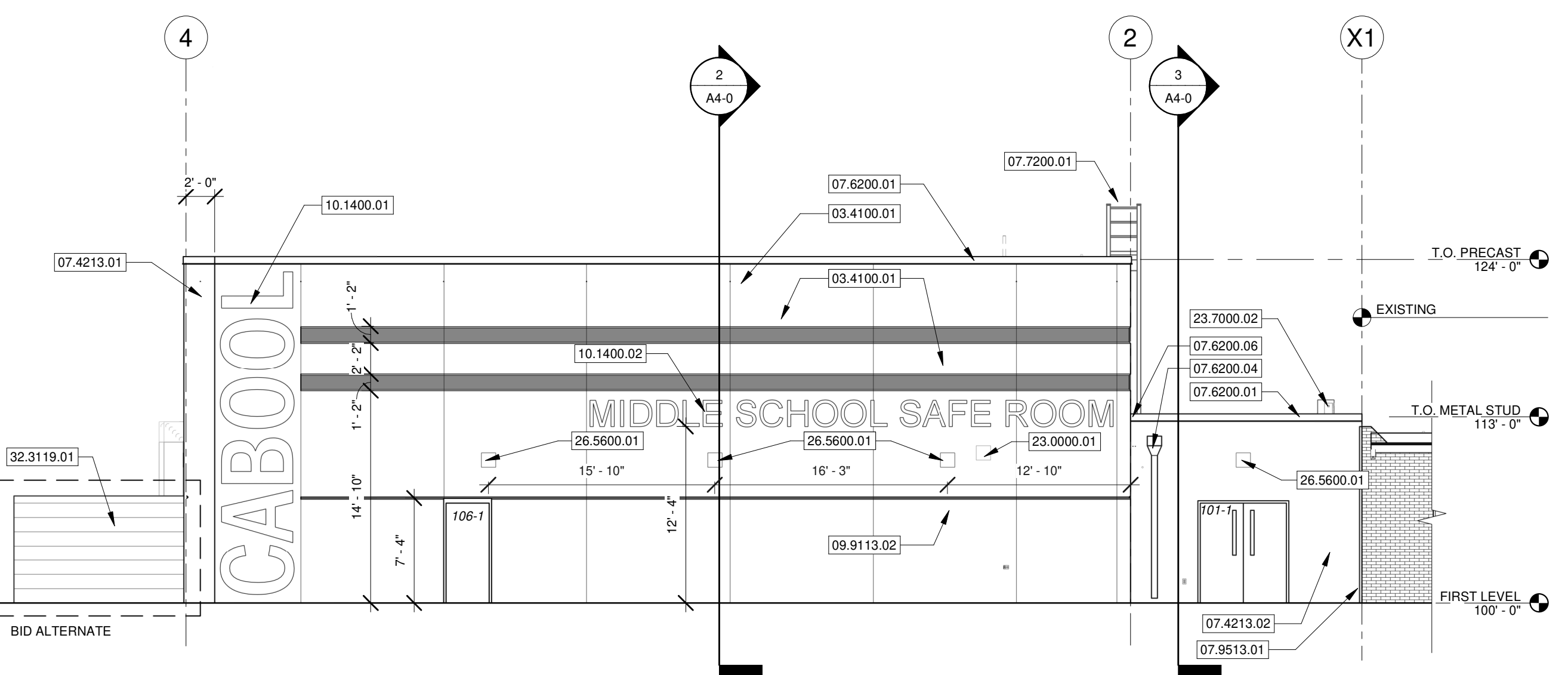
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com



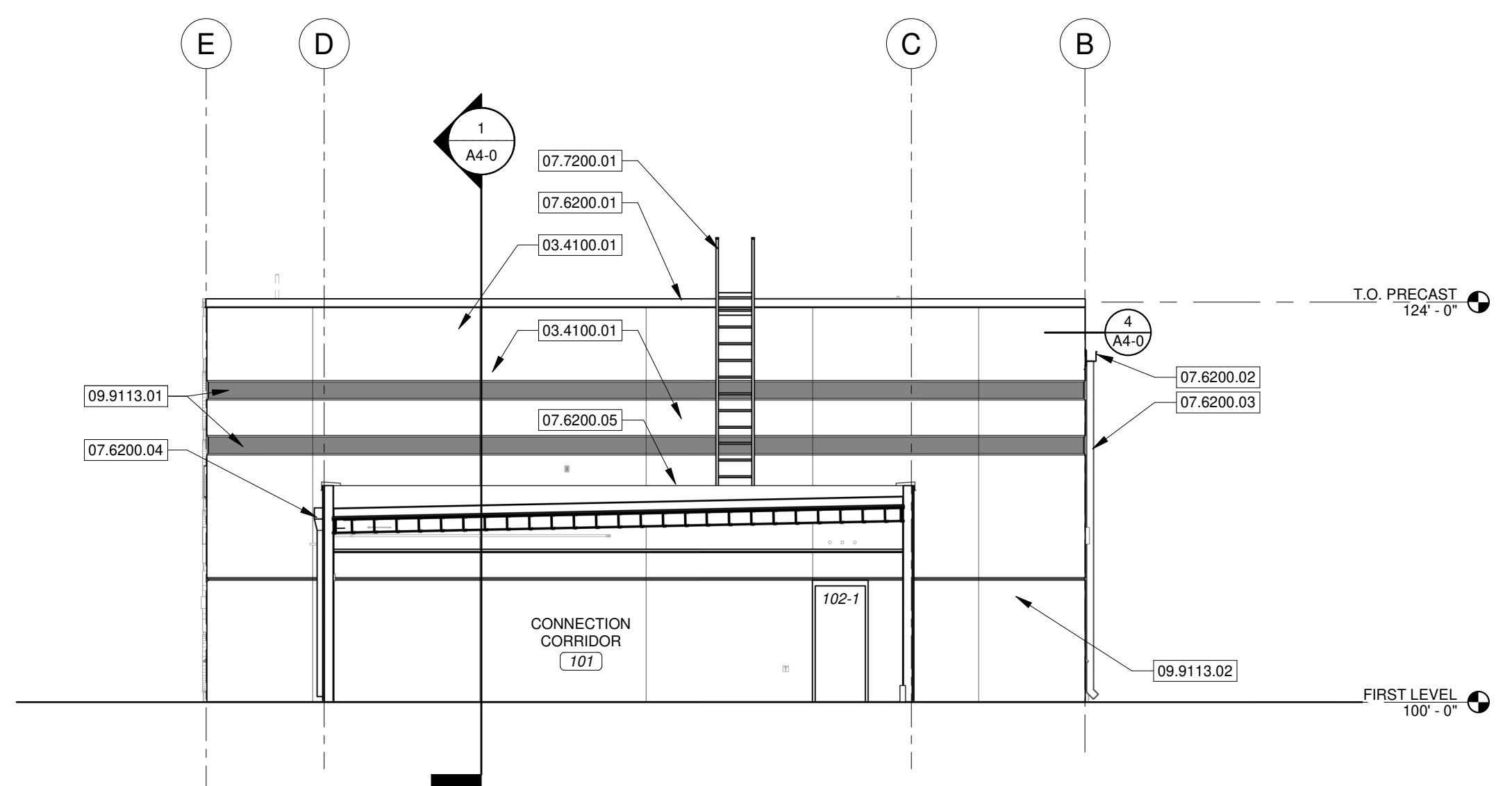
4 WEST ELEVATION
SCALE 1/8" = 1'-0"



2 SOUTH ELEVATION
SCALE 1/8" = 1'-0"



3 EAST ELEVATION
SCALE 1/8" = 1'-0"



1 NORTH ELEVATION
SCALE 1/8" = 1'-0"

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO CREDIT PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED (USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT), SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO CREDIT PARAGON ARCHITECTURE CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

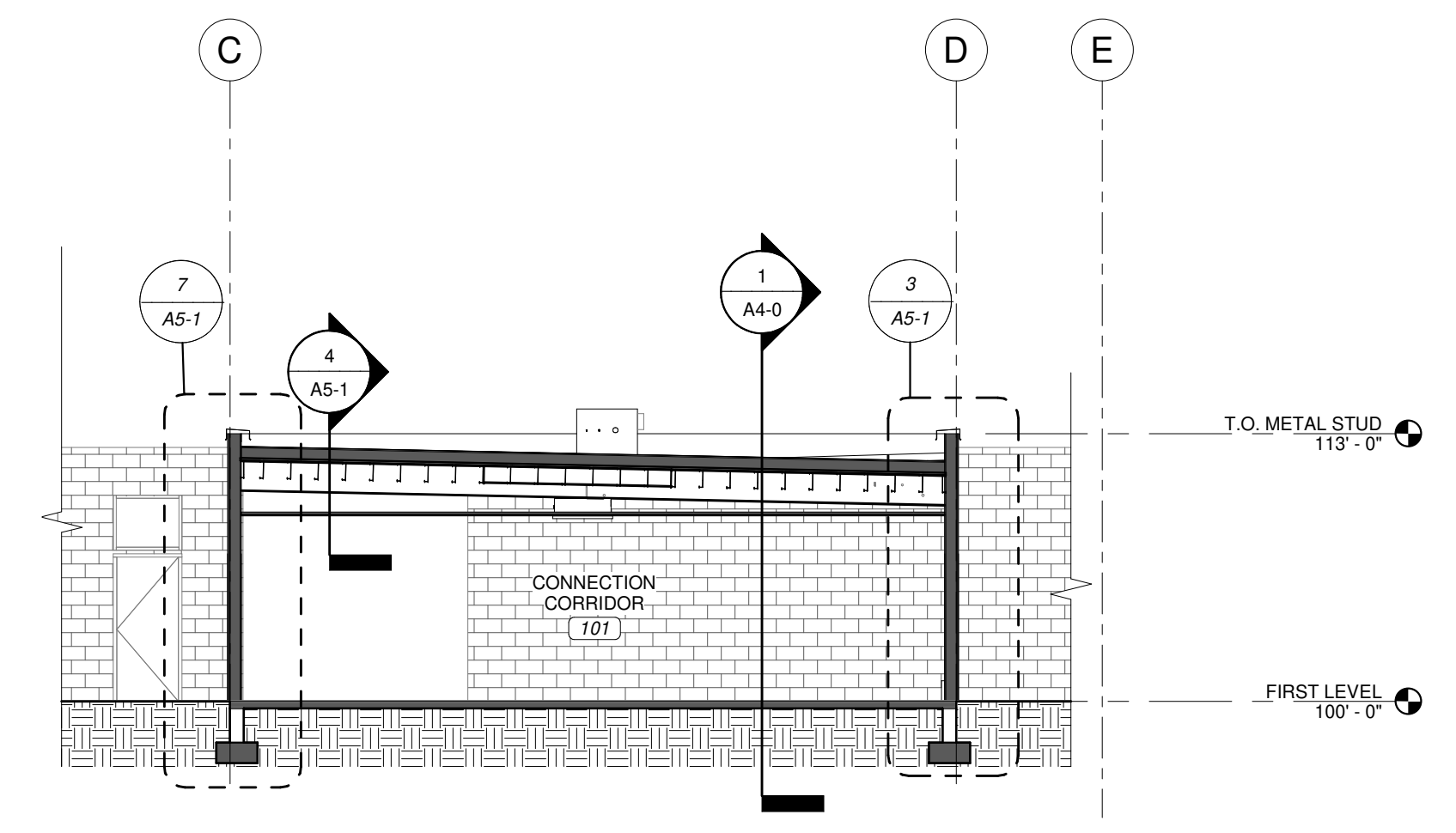
PROJECT DESCRIPTION: CABOOL M.S. TORNADO SAFE ROOM EXTERIOR ELEVATIONS

PROJECT NUMBER: 20-606

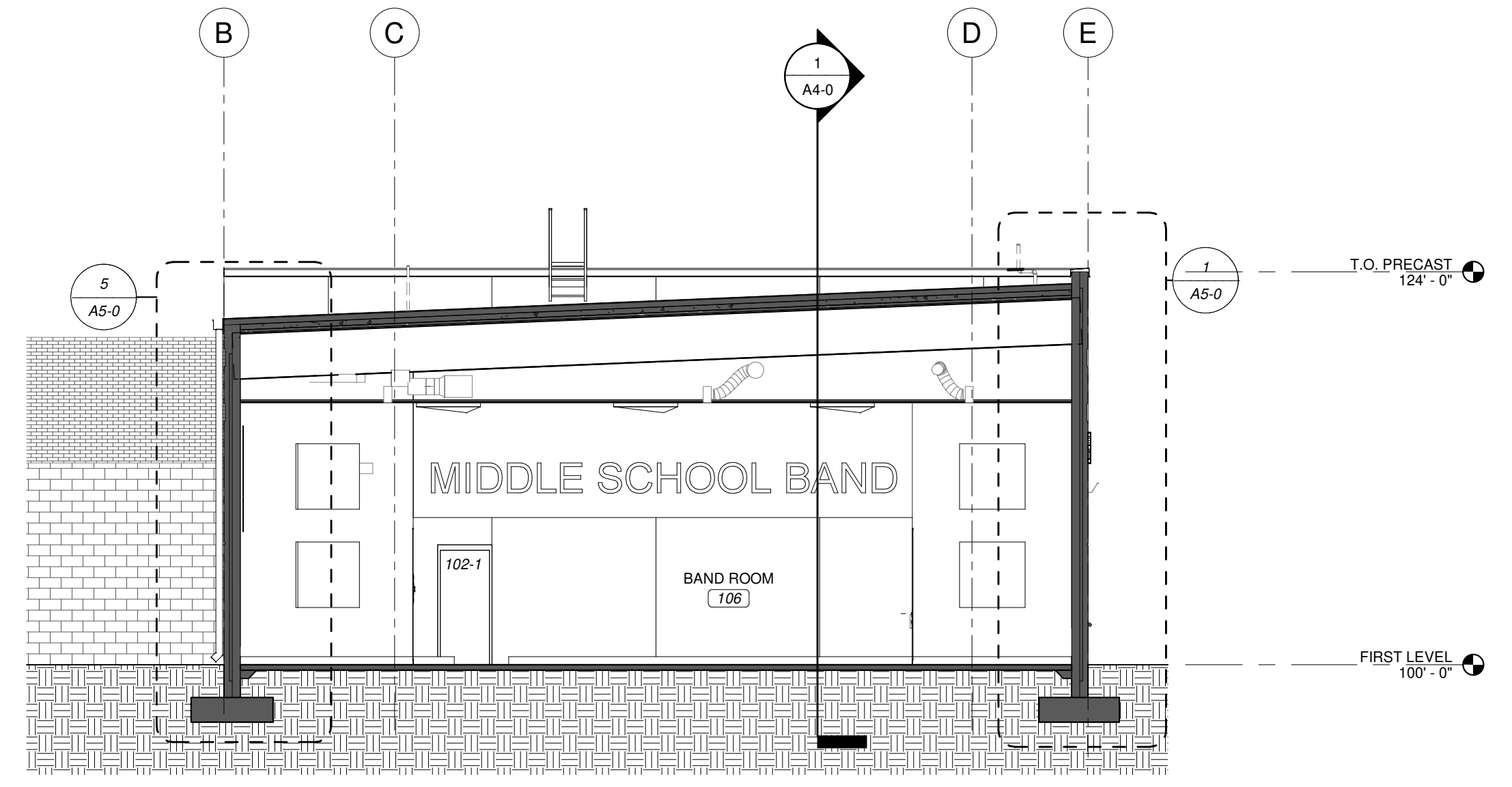
DATE: 08/16/2021

1025 ROGERS AVENUE, CABOOL, MISSOURI 65699

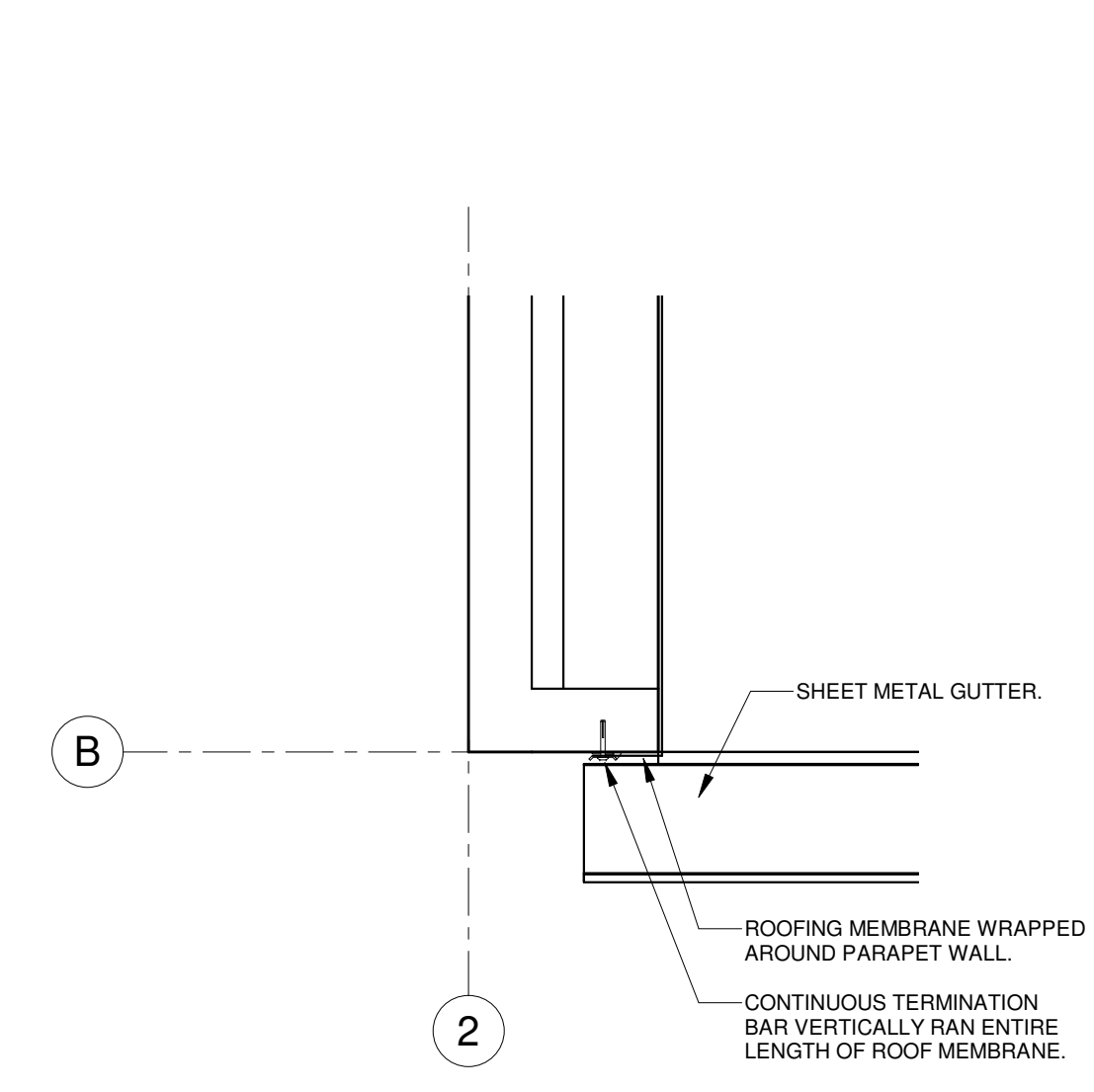
PROJECT ARCHITECT: JAY NSB
DRAWN BY: JAY NSB
CHECKED BY: PHY



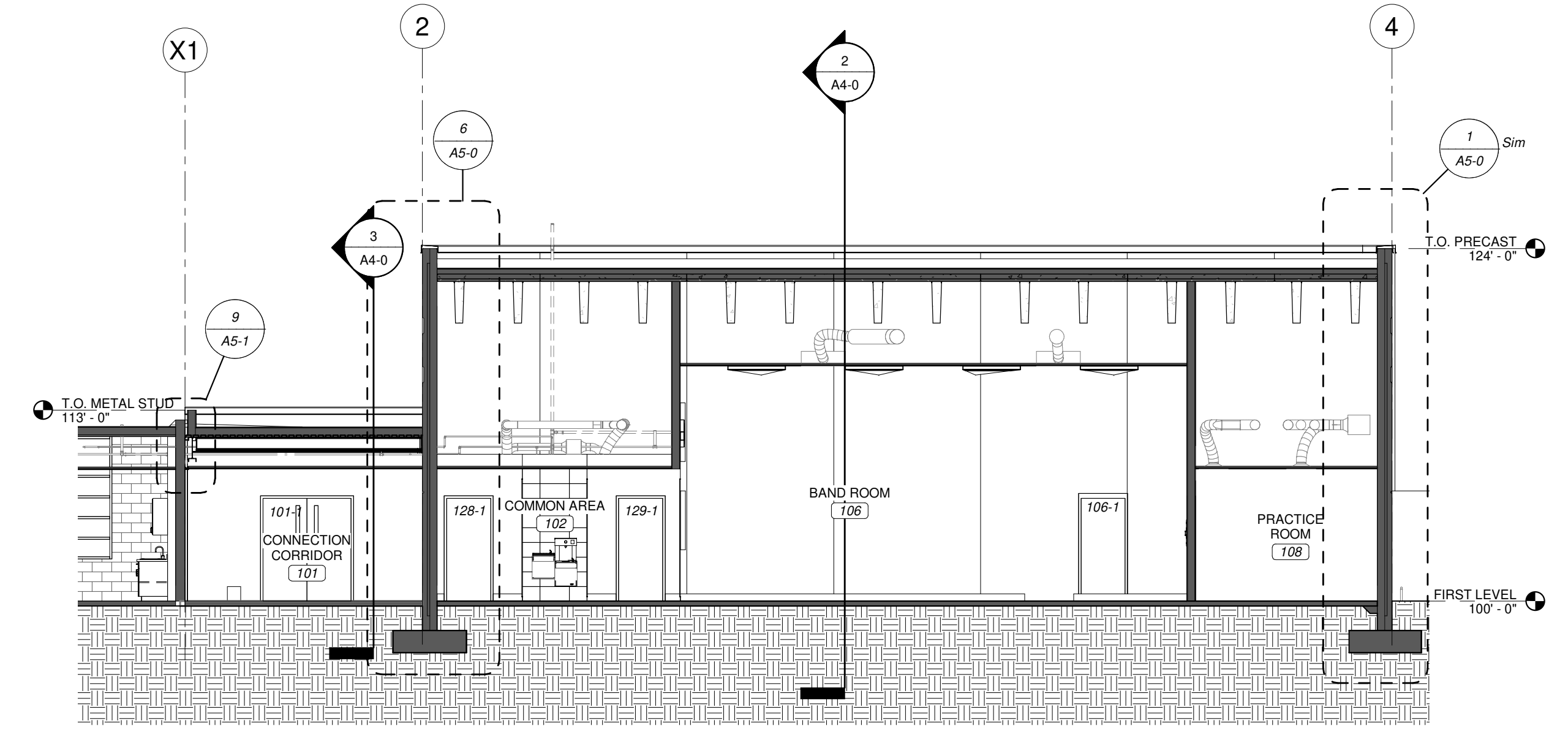
3 BUILDING SECTION
 SCALE 1/8" = 1'-0"



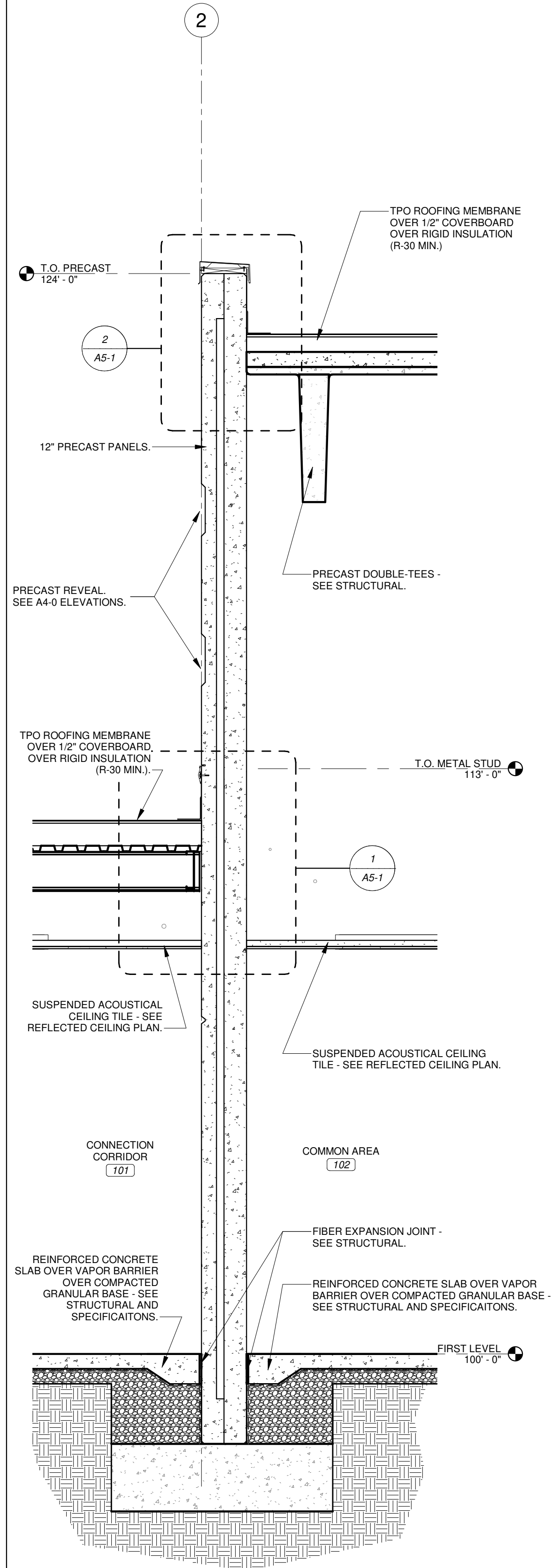
2 BUILDING SECTION
 SCALE 1/8" = 1'-0"



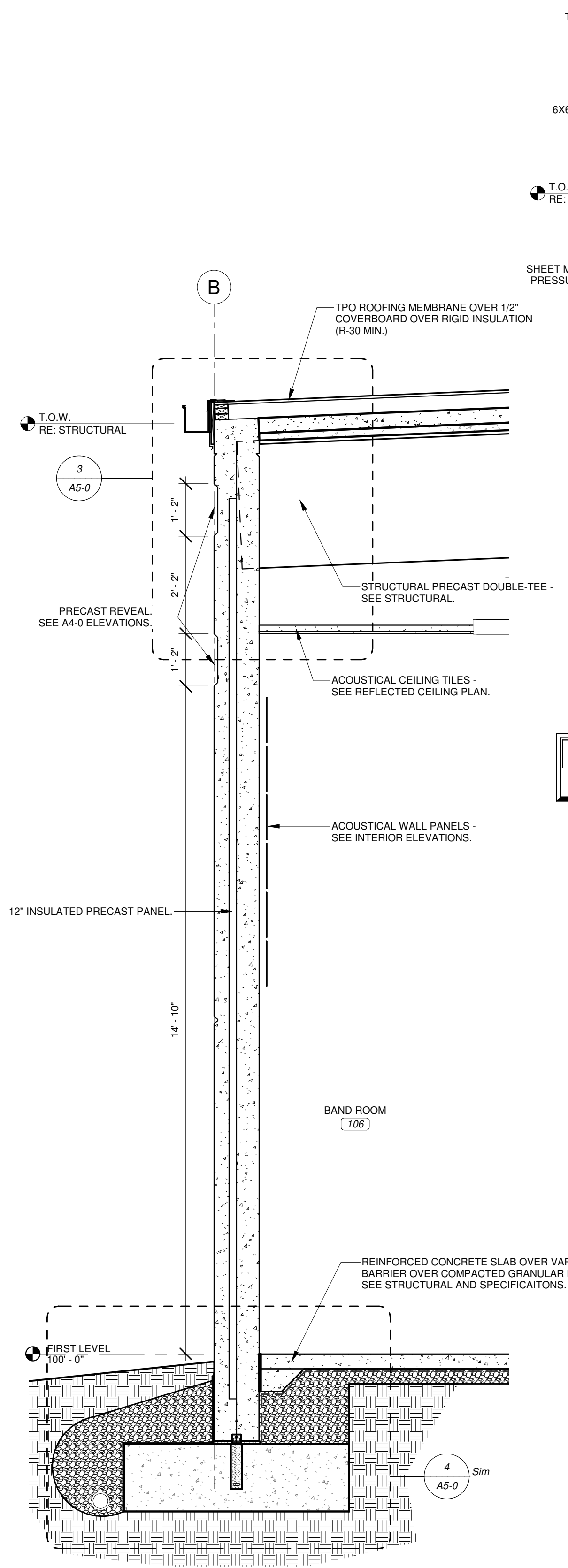
4 END ROOF PARAPET DETAIL
 SCALE 1" = 1'-0"



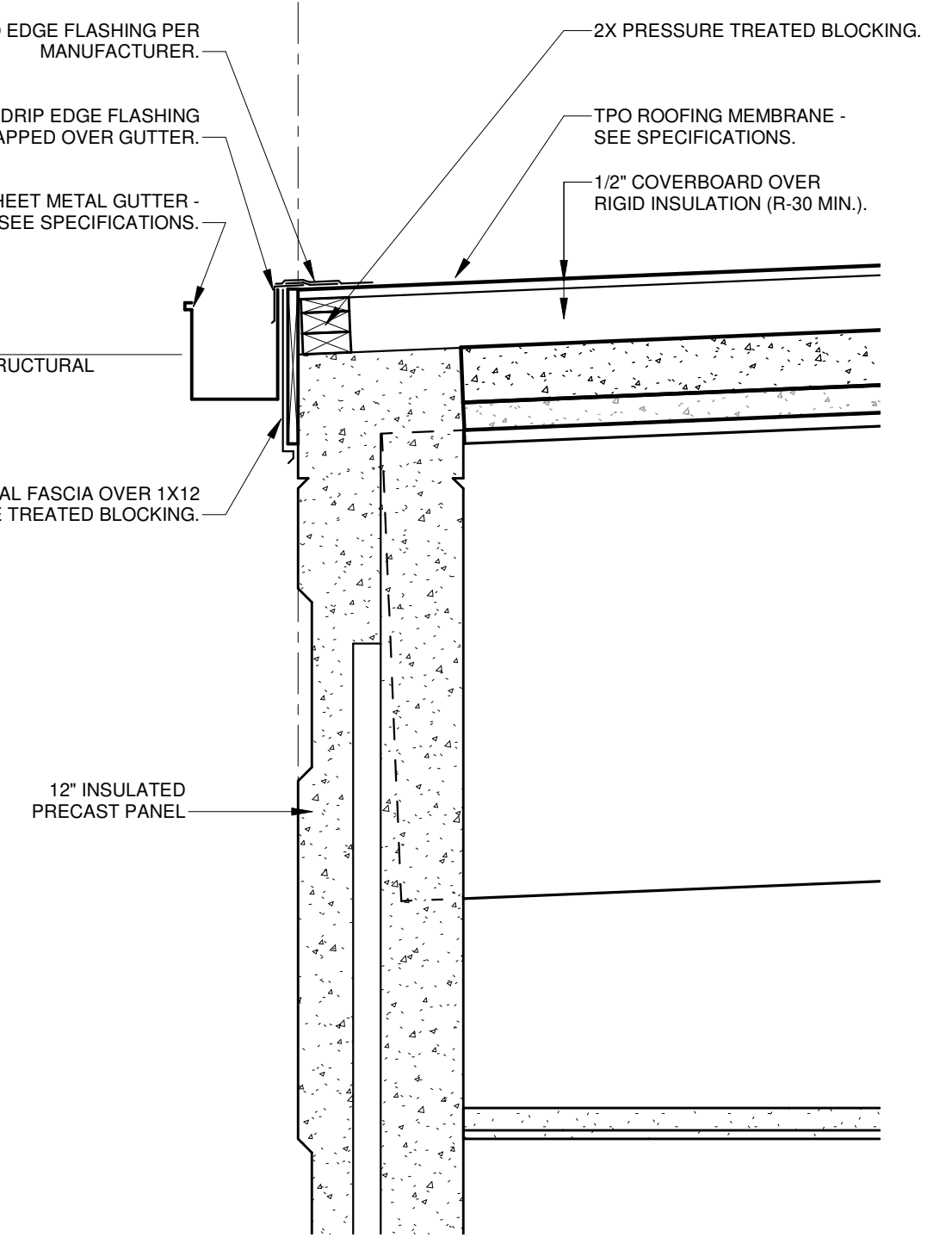
1 BUILDING SECTION
 SCALE 1/8" = 1'-0"



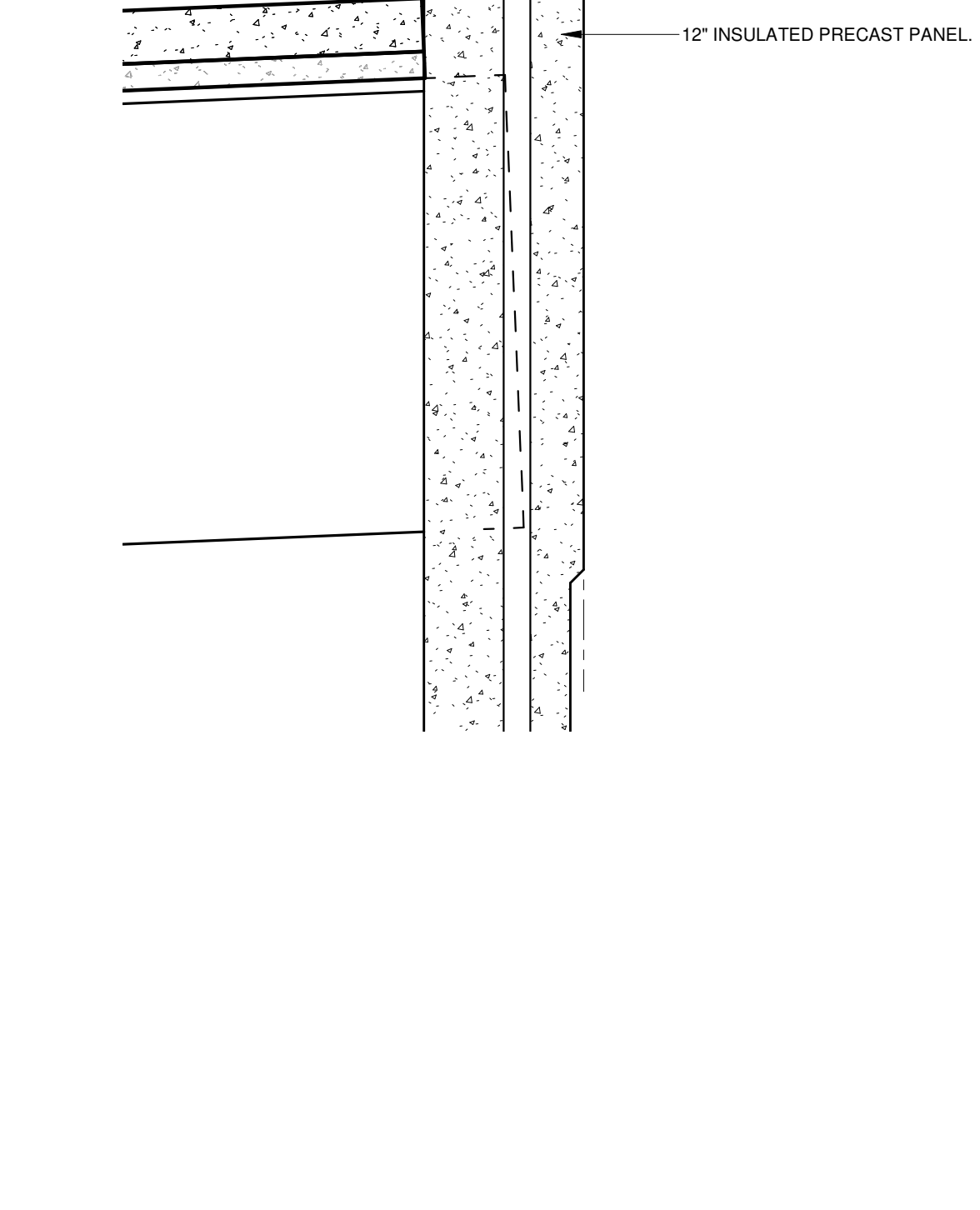
6 WALL SECTION
 SCALE 1/2" = 1'-0"



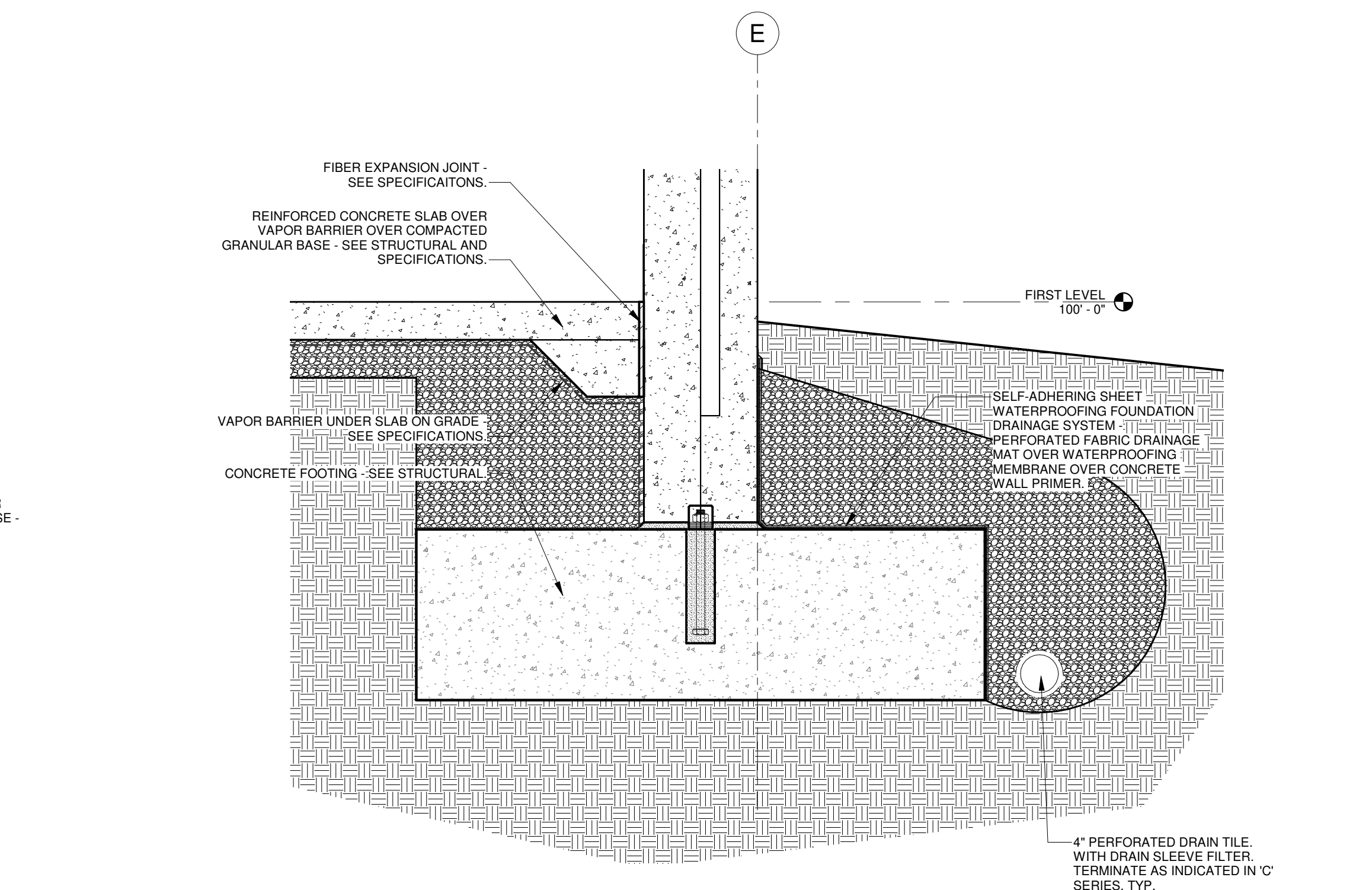
5 WALL SECTION
 SCALE 1/2" = 1'-0"



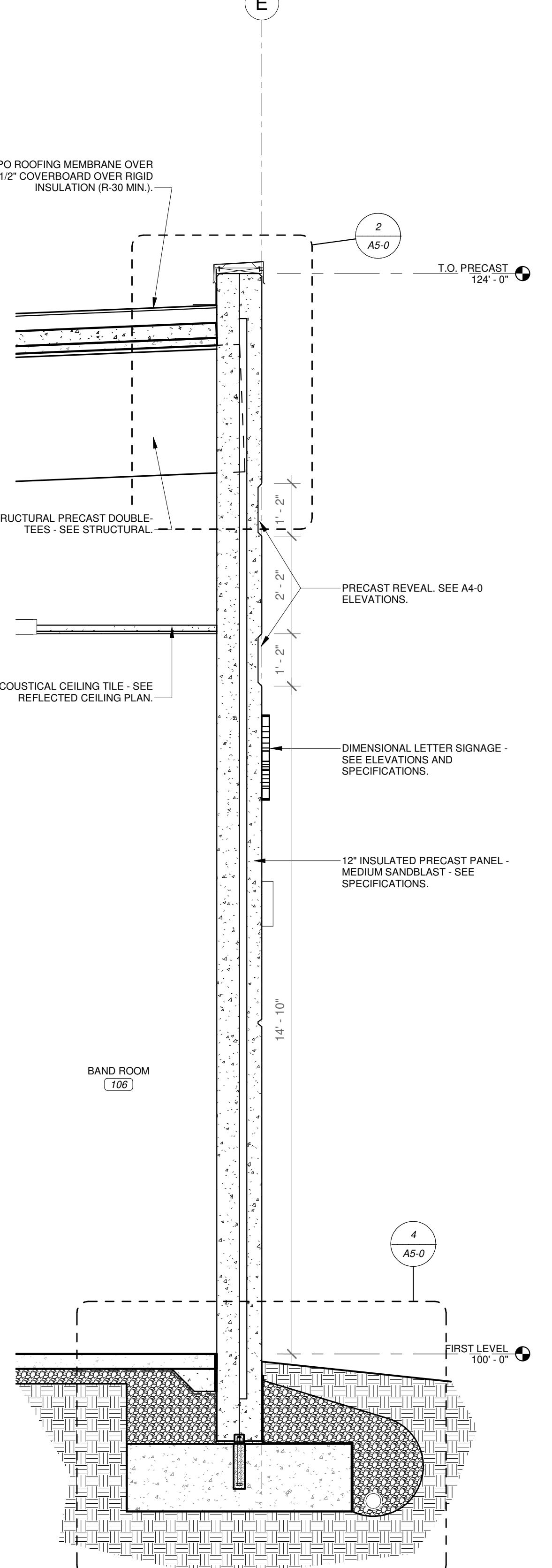
3 ROOF DETAIL
 SCALE 1" = 1'-0"



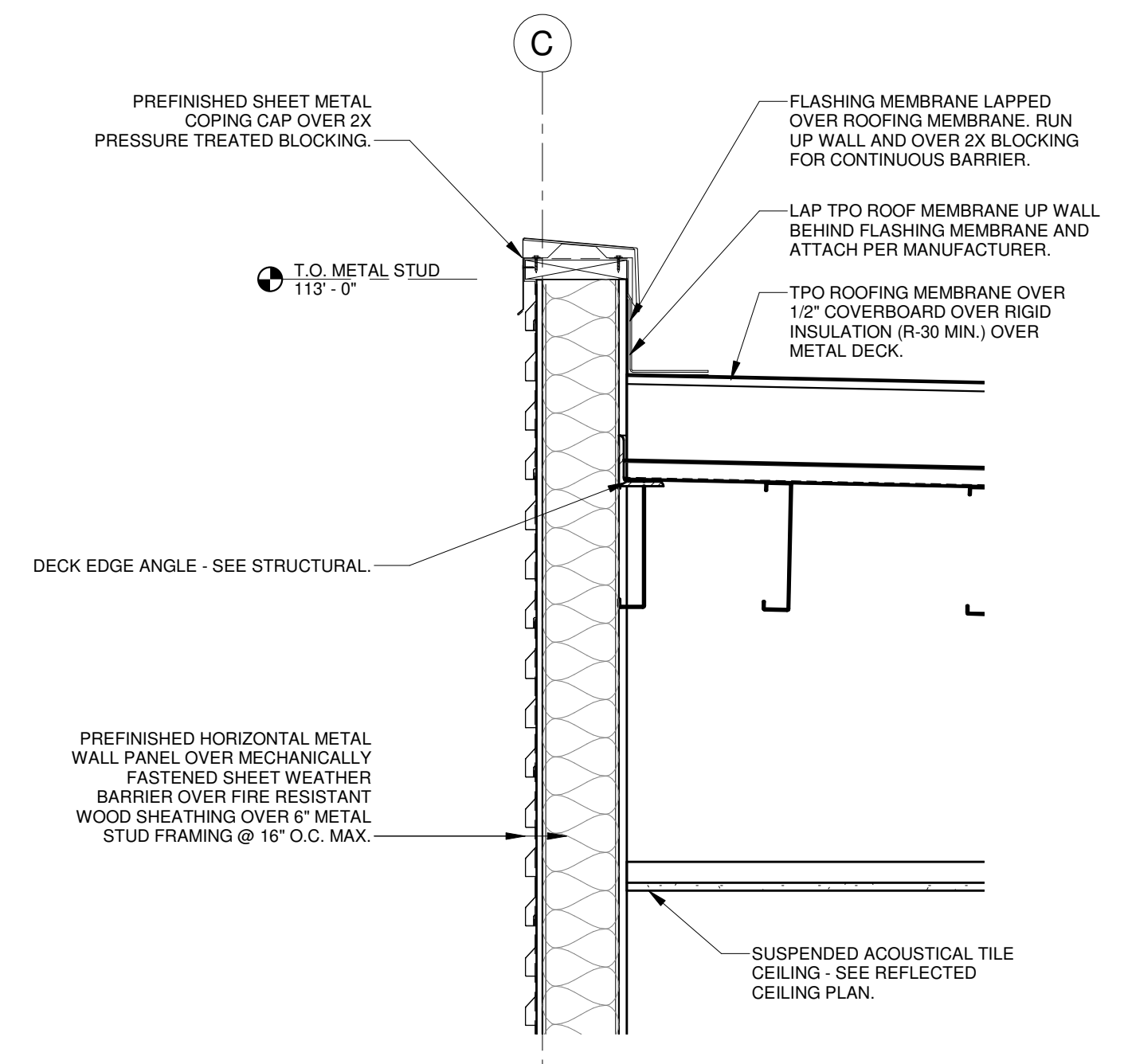
2 ROOF DETAIL
 SCALE 1" = 1'-0"



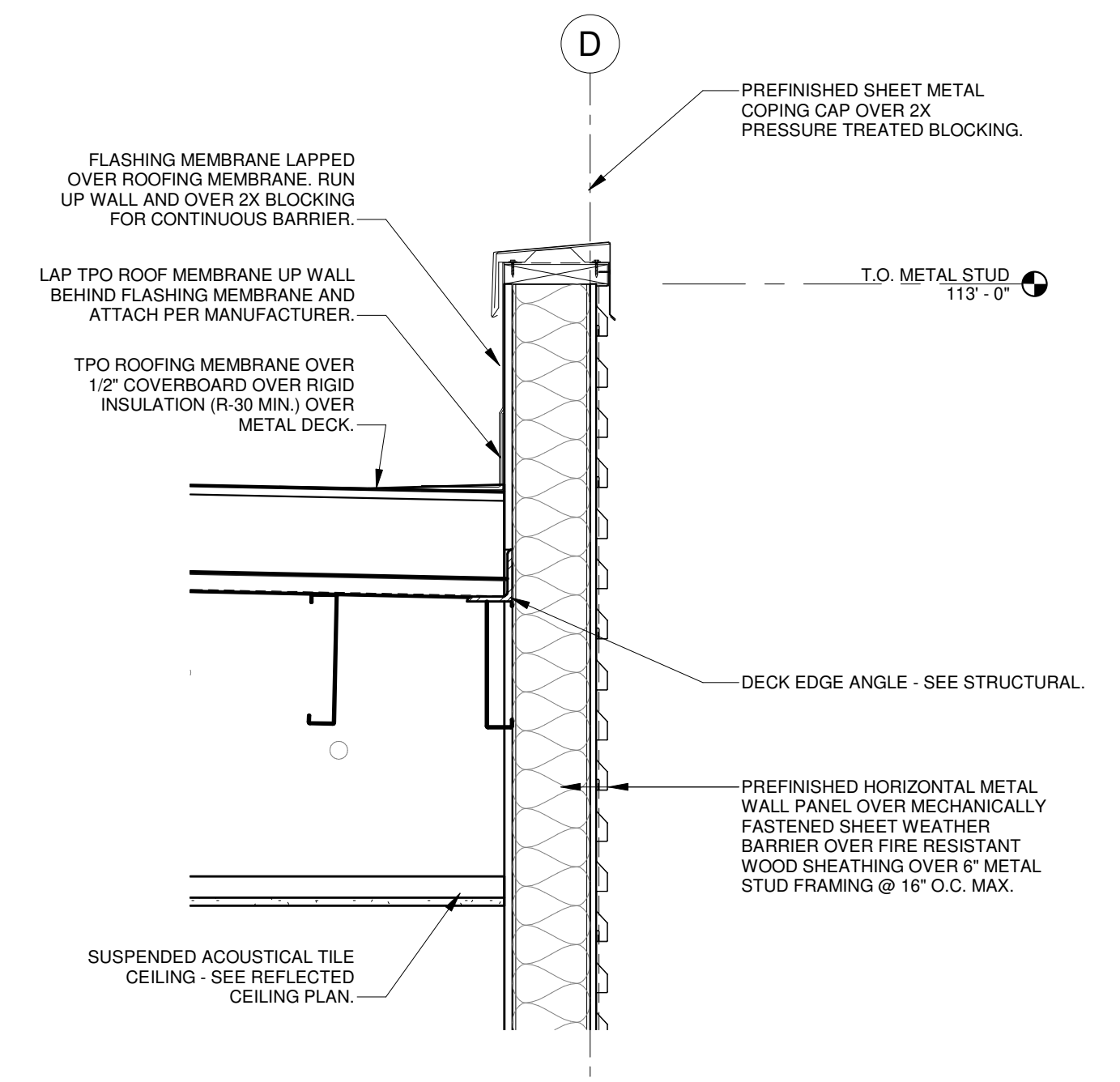
4 FOOTING DETAIL
 SCALE 1" = 1'-0"



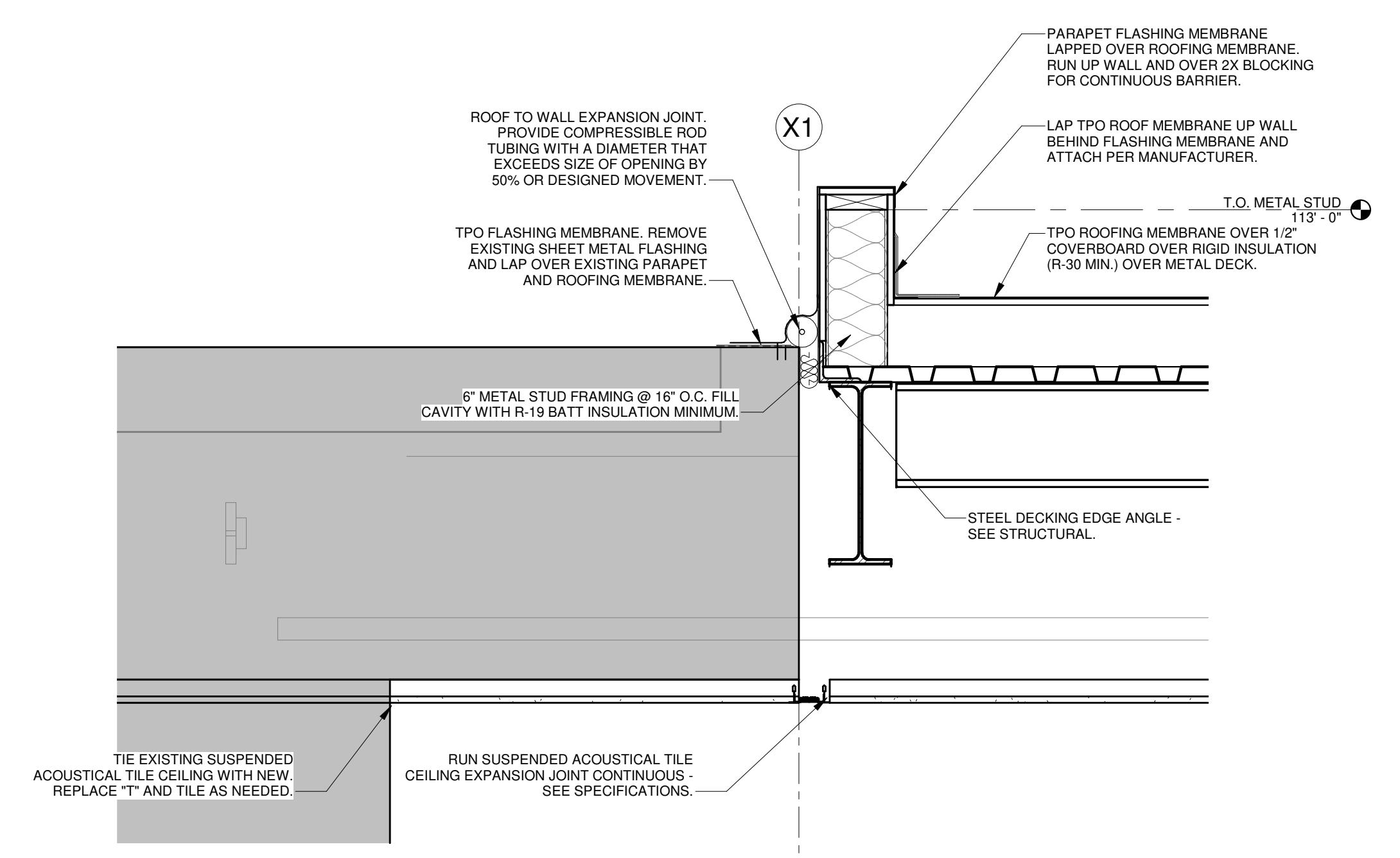
1 WALL SECTION
 SCALE 1/2" = 1'-0"



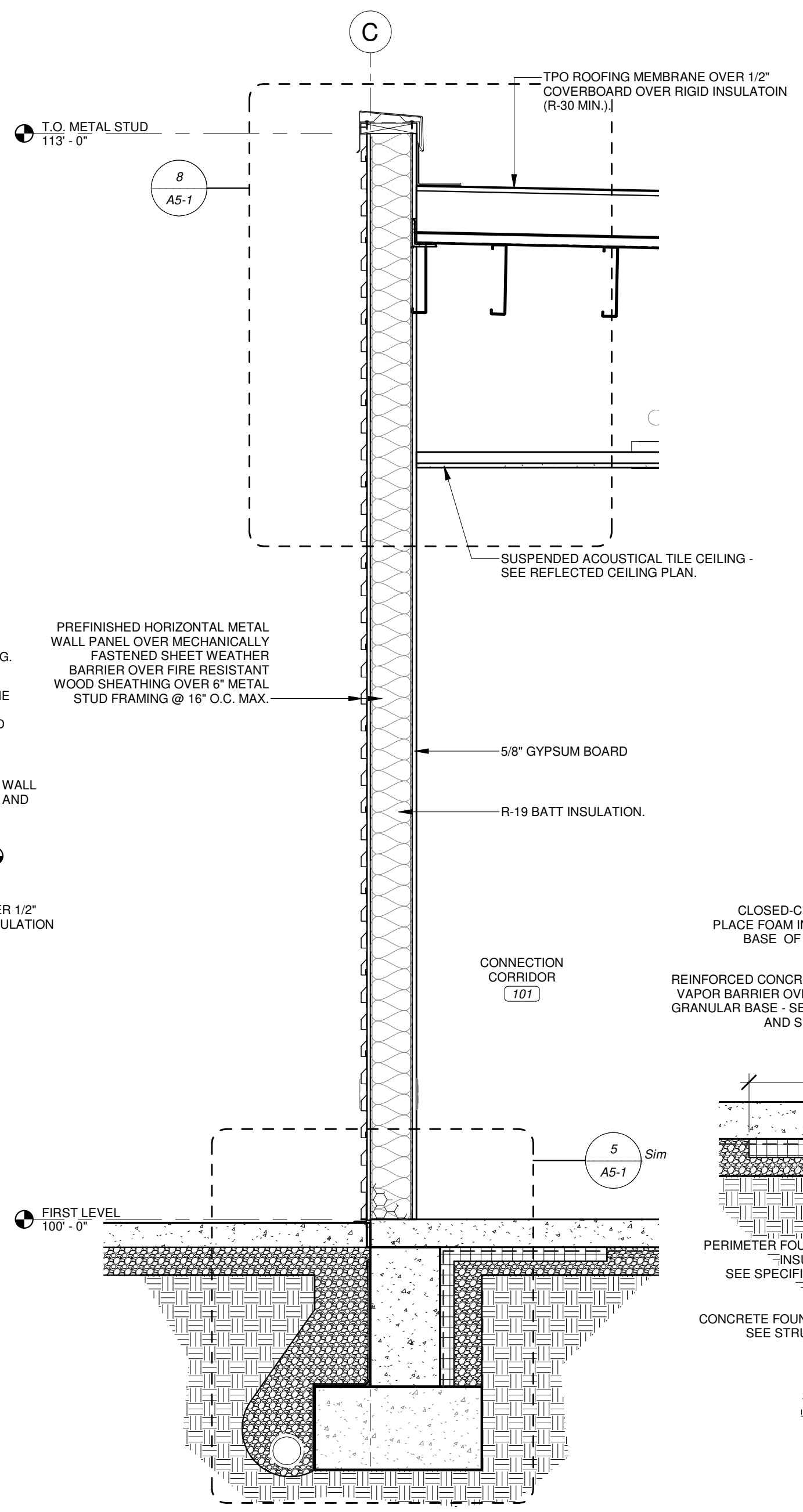
8 ROOF DETAIL
SCALE 1" = 1'-0"



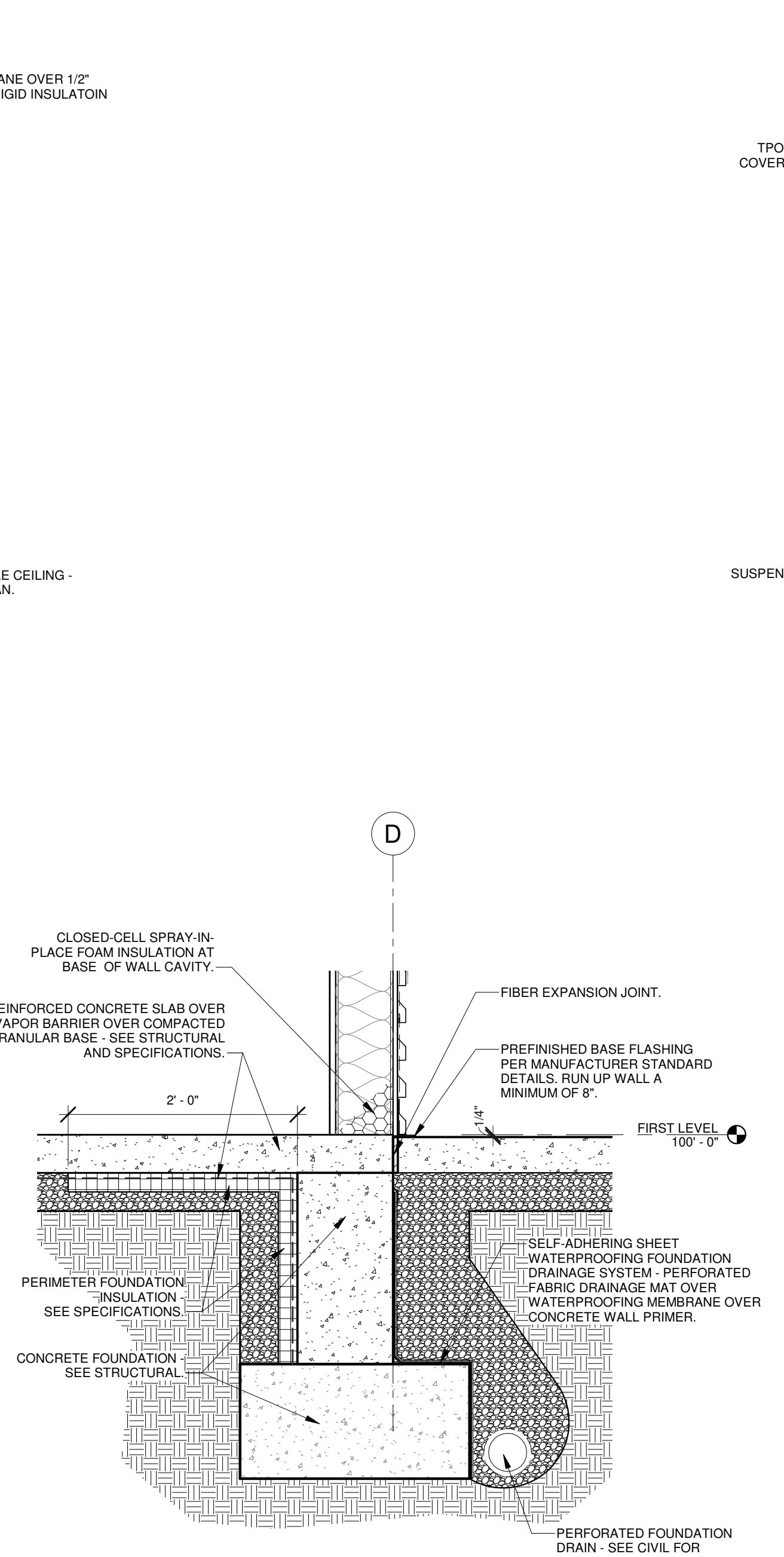
6 ROOF DETAIL
SCALE 1" = 1'-0"



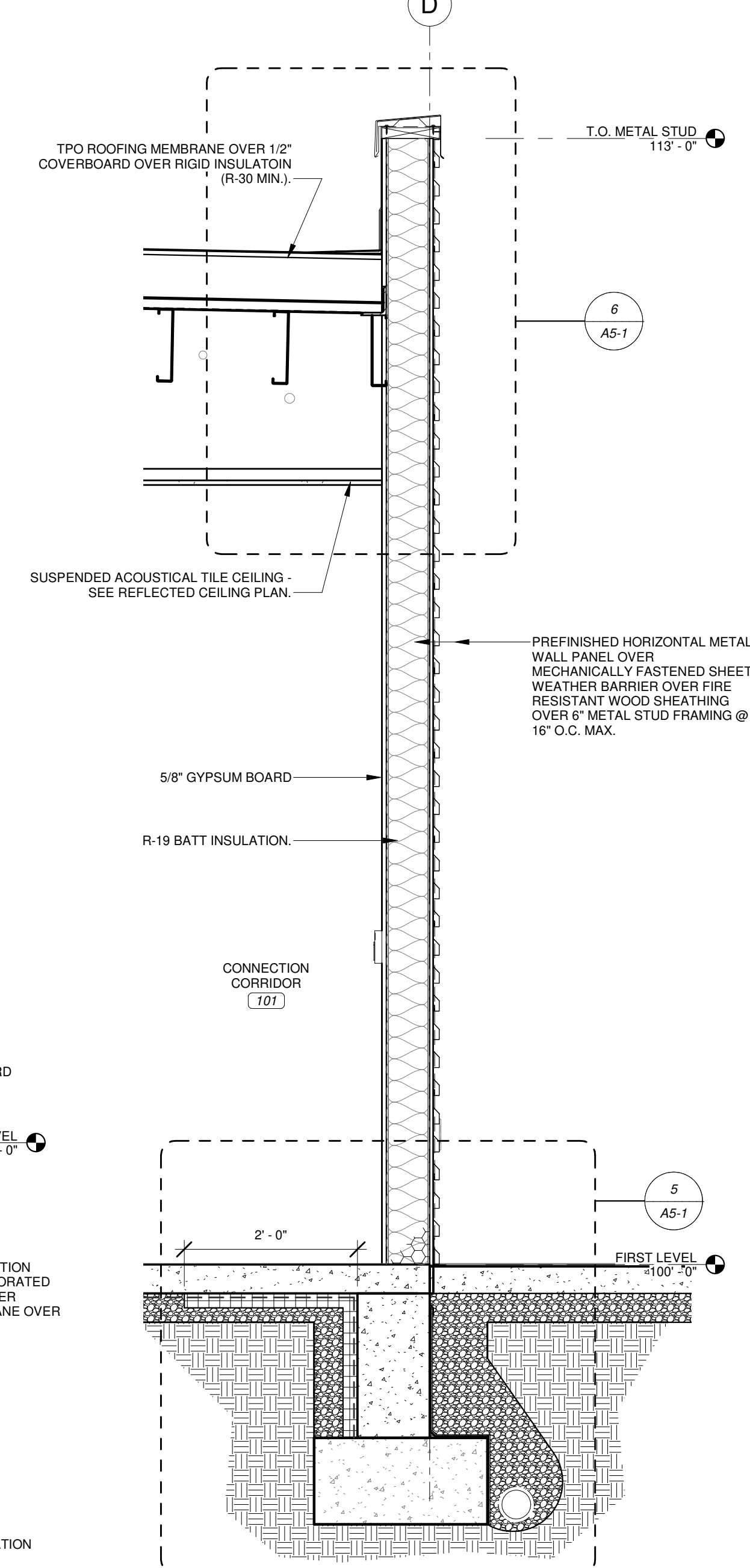
4 ROOF DETAIL
SCALE 1" = 1'-0"



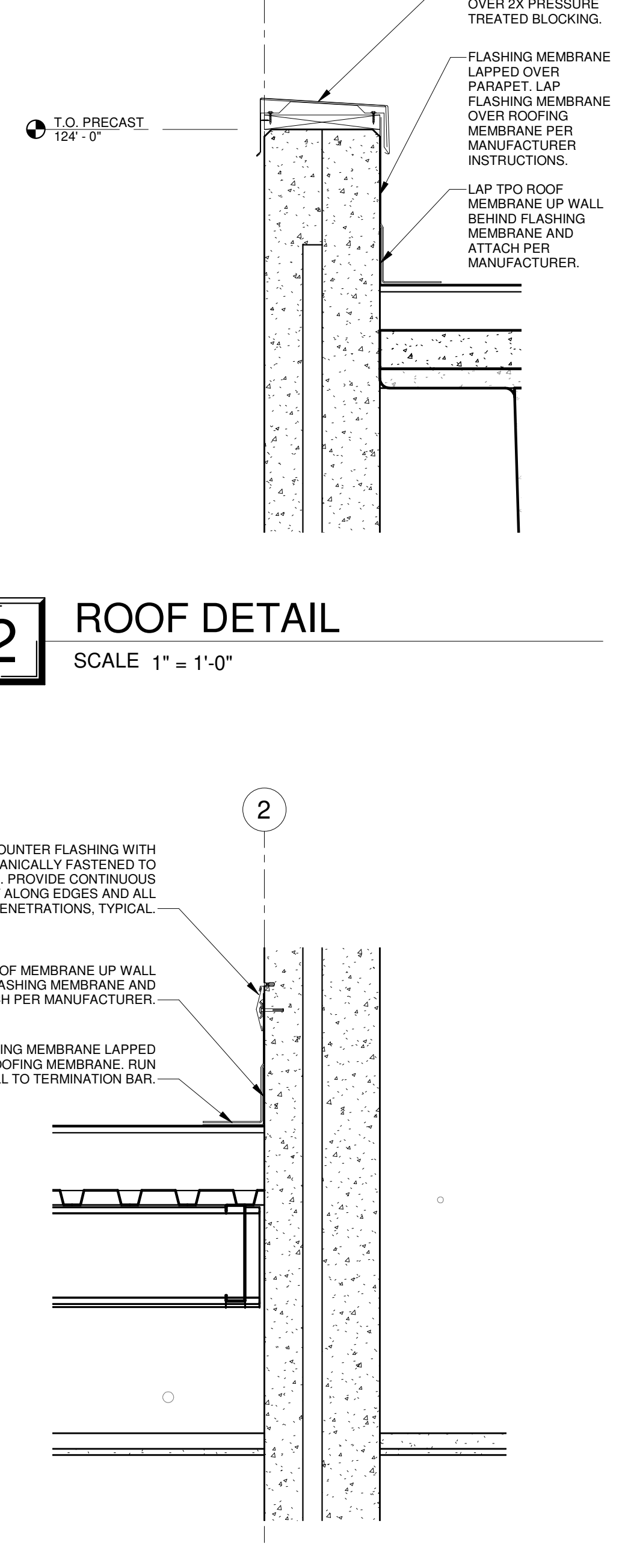
7 WALL SECTION
SCALE 3/4" = 1'-0"



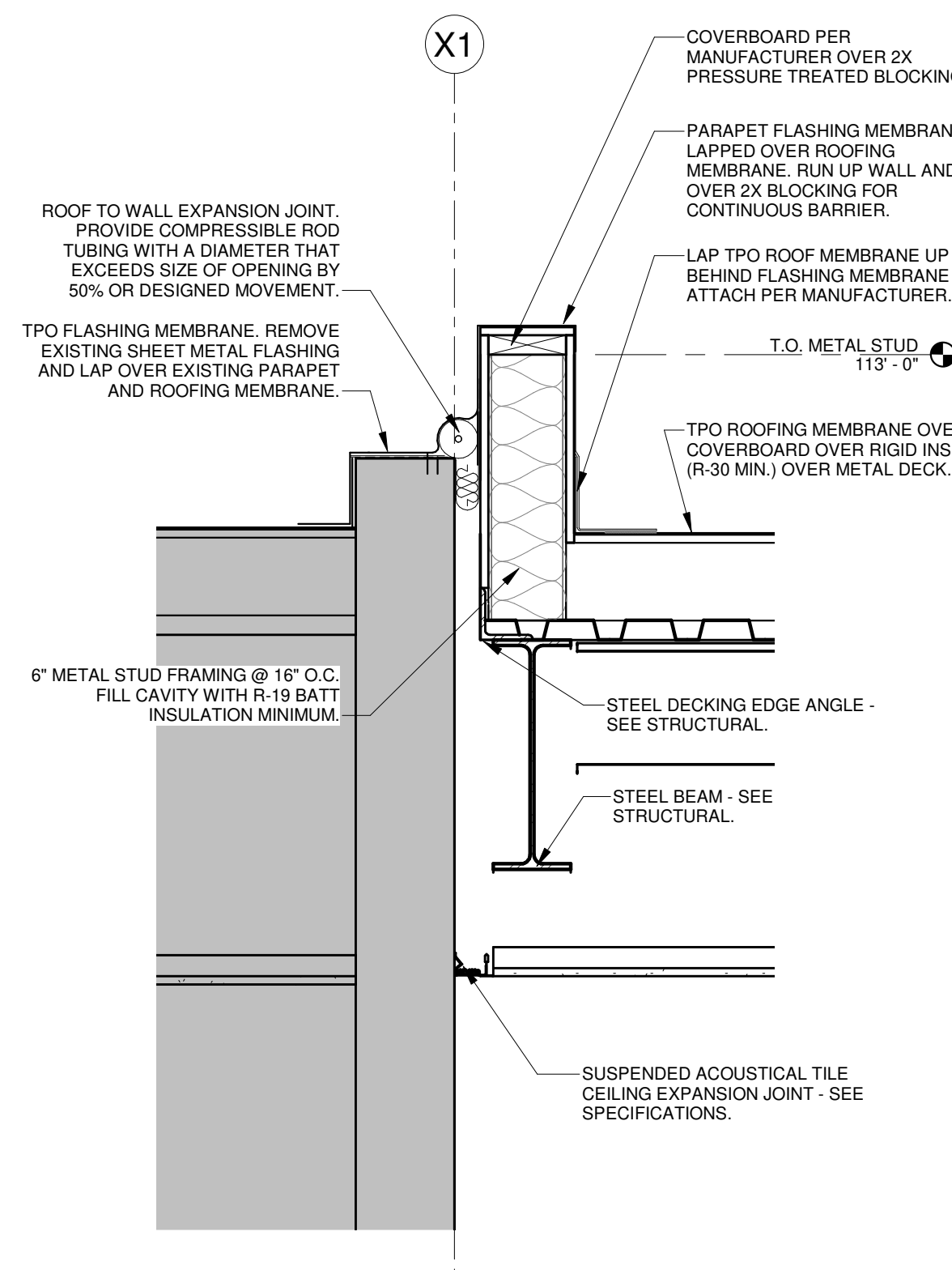
5 FOOTING DETAIL
SCALE 1" = 1'-0"



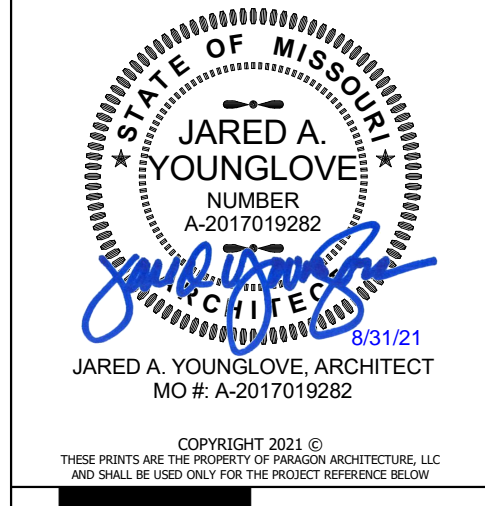
3 WALL SECTION
SCALE 3/4" = 1'-0"



2 ROOF DETAIL
SCALE 1" = 1'-0"



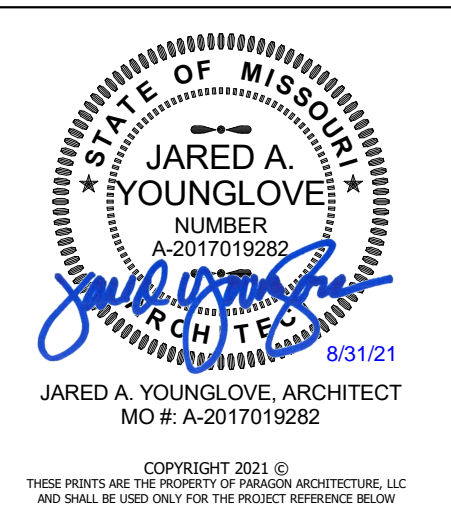
9 ROOF DETAIL
SCALE 1" = 1'-0"



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415
PARAGON
 ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

PROJECT DESCRIPTION: CABOOL M.S. TORNADO SAFE ROOM
 PROJECT NUMBER: 20-606
 DATE: 08/16/2021
 DRAWN BY: JAY NSB
 CHECKED BY: JAY NSB
 PROJECT ARCHITECT: JAY NSB
 ARCHITECT FIRM: PARAGON ARCHITECTURE

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION IF NO CONTRACT IS IMPLIED, USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT, WHICH SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.



THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

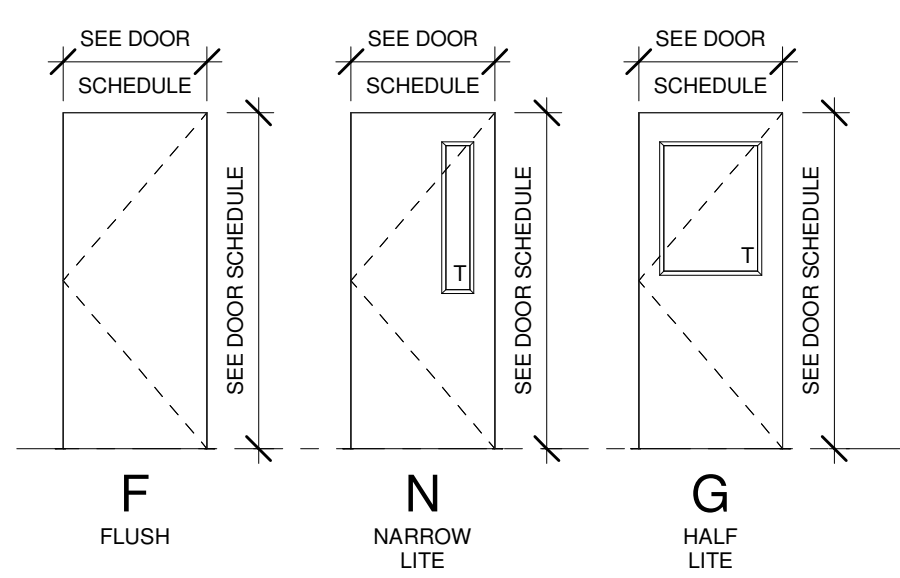
MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON
ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

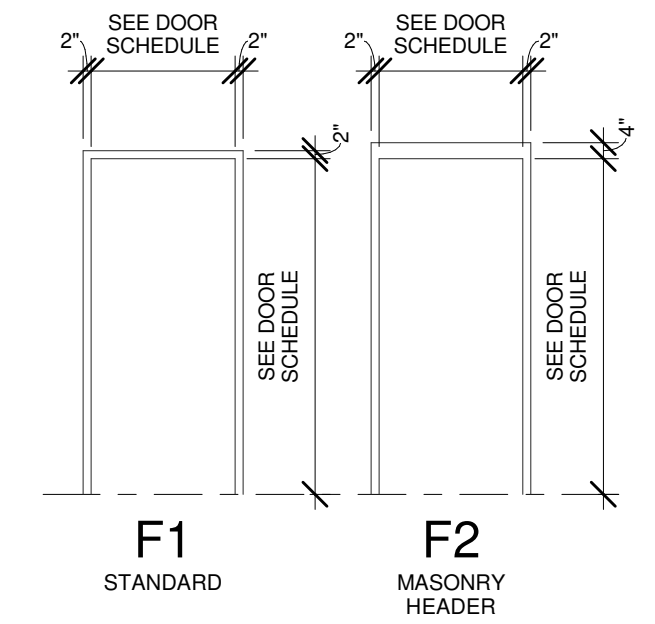
REVISION SCHEDULE

A6-0 CABOOL M.S. TORNADO SAFE ROOM OPENINGS
PROJECT NUMBER: 20-606
DATE: 08/16/2021
1025 ROGERS AVENUE, CABOOL, MISSOURI 65809
PROJECT ARCHITECT: JAY NSB
DRAWN BY: JAY NSB
CHECKED BY: PHY

DOOR NO.	CONFIG	WIDTH	HEIGHT	THICK	TYPE	MATL	FRAME				HARDW	SET	RATING	COMMENTS	
							TYPE	MATL	DETAIL						
									HEAD	LEFT JAMB					RIGHT JAMB
101-1	PAIR	6'-0"	7'-0"	1 3/4"	N	HM	F1	HM	1/A6-0	2/A6-0	2/A6-0	3/A6-0	01		
101-2	PAIR	6'-0"	7'-0"	1 3/4"	N	HM	F1	HM	1/A6-0	2/A6-0	2/A6-0	3/A6-0	01		
102-1	SINGLE	3'-0"	7'-0"	1 3/4"	F	HM	F2	HM	4/A6-0	5/A6-0	5/A6-0	6/A6-0	03	90 MIN ICC-500 COMPLIANT.	
105-1	SINGLE	3'-0"	7'-0"	1 3/4"	F	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		04		
106-1	SINGLE	3'-0"	7'-0"	1 3/4"	F	HM	F2	HM	4/A6-0	5/A6-0	5/A6-0	6/A6-0	02	90 MIN ICC-500 COMPLIANT.	
107-1	SINGLE	3'-0"	7'-0"	1 3/4"	G	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		07		
108-1	SINGLE	3'-0"	7'-0"	1 3/4"	G	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		07		
109-1	SINGLE	3'-0"	7'-0"	1 3/4"	G	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		07		
110-1	SINGLE	3'-0"	7'-0"	1 3/4"	G	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		07		
111-1	SINGLE	3'-0"	7'-0"	1 3/4"	G	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		05		
128-1	SINGLE	3'-0"	7'-0"	1 3/4"	F	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		06		
129-1	SINGLE	3'-0"	7'-0"	1 3/4"	F	WD	F1	HM	7/A6-0	8/A6-0	8/A6-0		06		

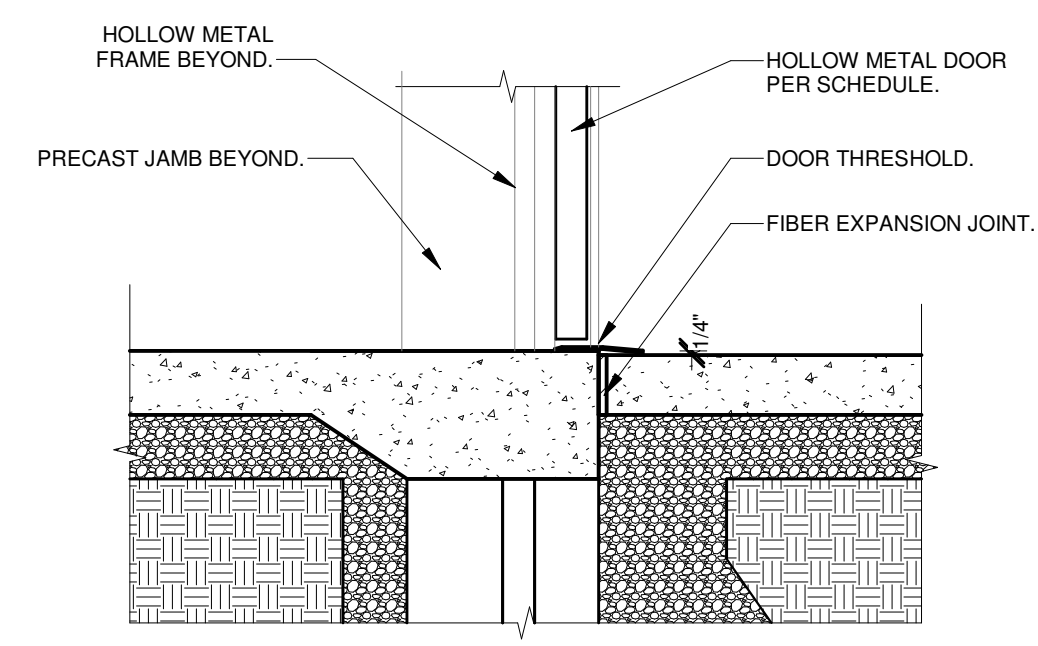


DOOR TYPE LEGEND



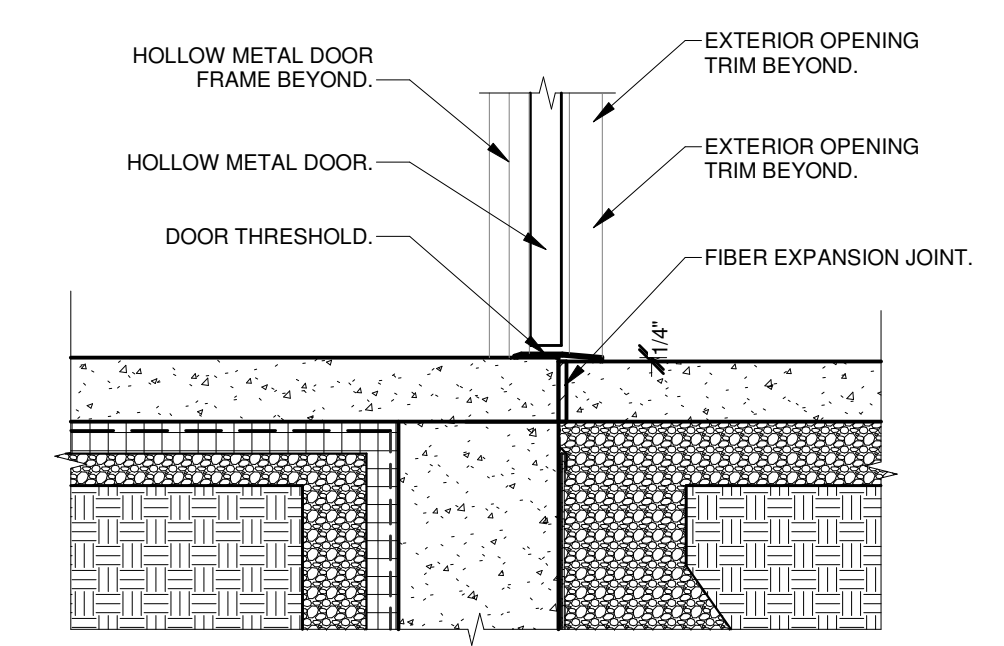
DOOR FRAME LEGEND

SCALE 1/4" = 1'-0"



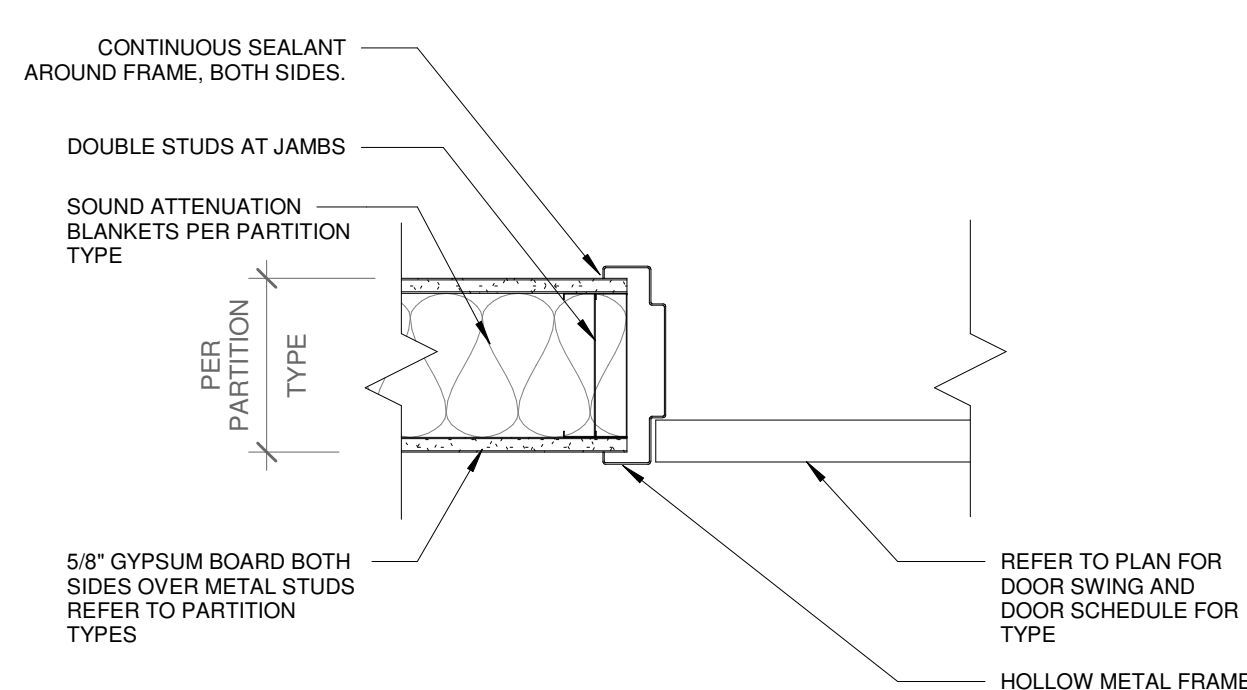
6 PRECAST THRESHOLD DETAIL

SCALE 1" = 1'-0"



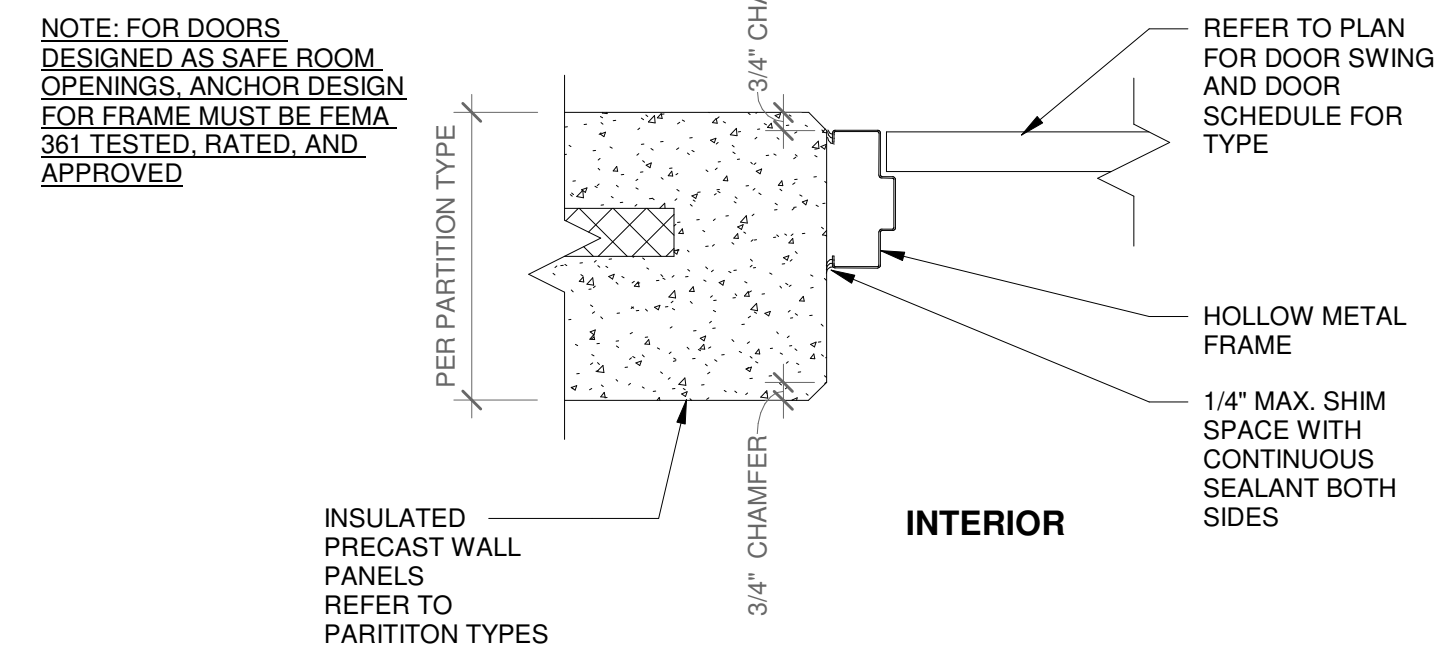
3 EXTERIOR THRESHOLD DETAIL

SCALE 1" = 1'-0"



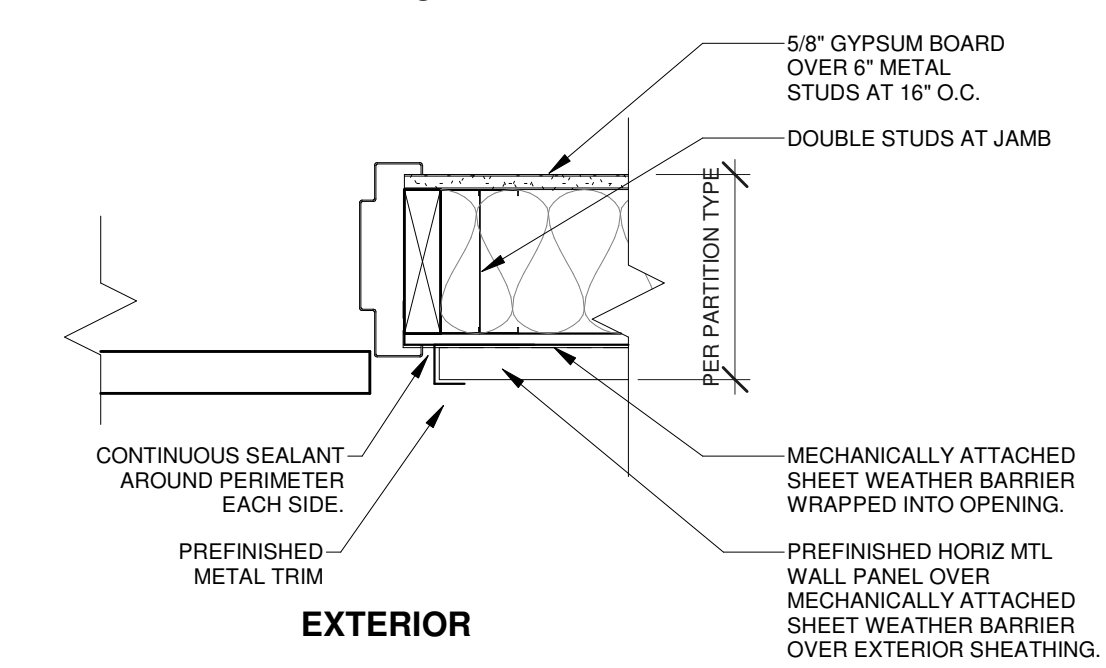
8 HM DOOR JAMB DETAIL

SCALE 1 1/2" = 1'-0"



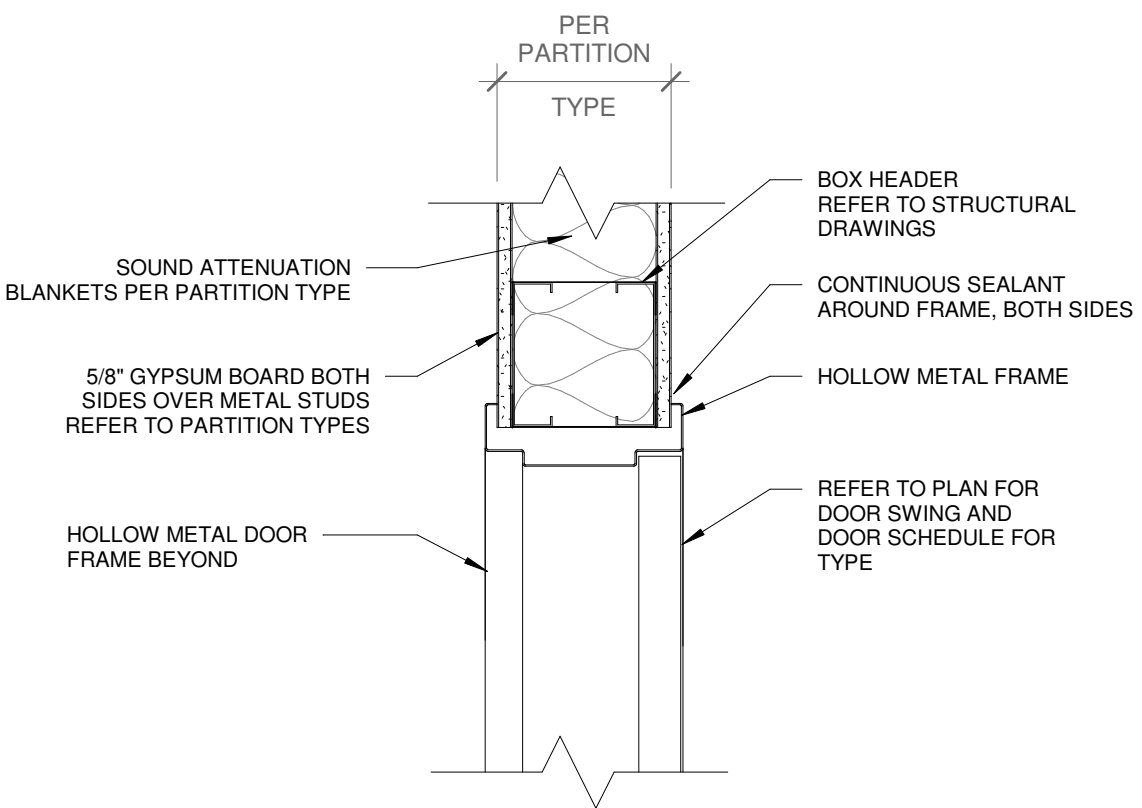
5 HM JAMB DETAIL @ PRECAST PANEL

SCALE 1 1/2" = 1'-0"



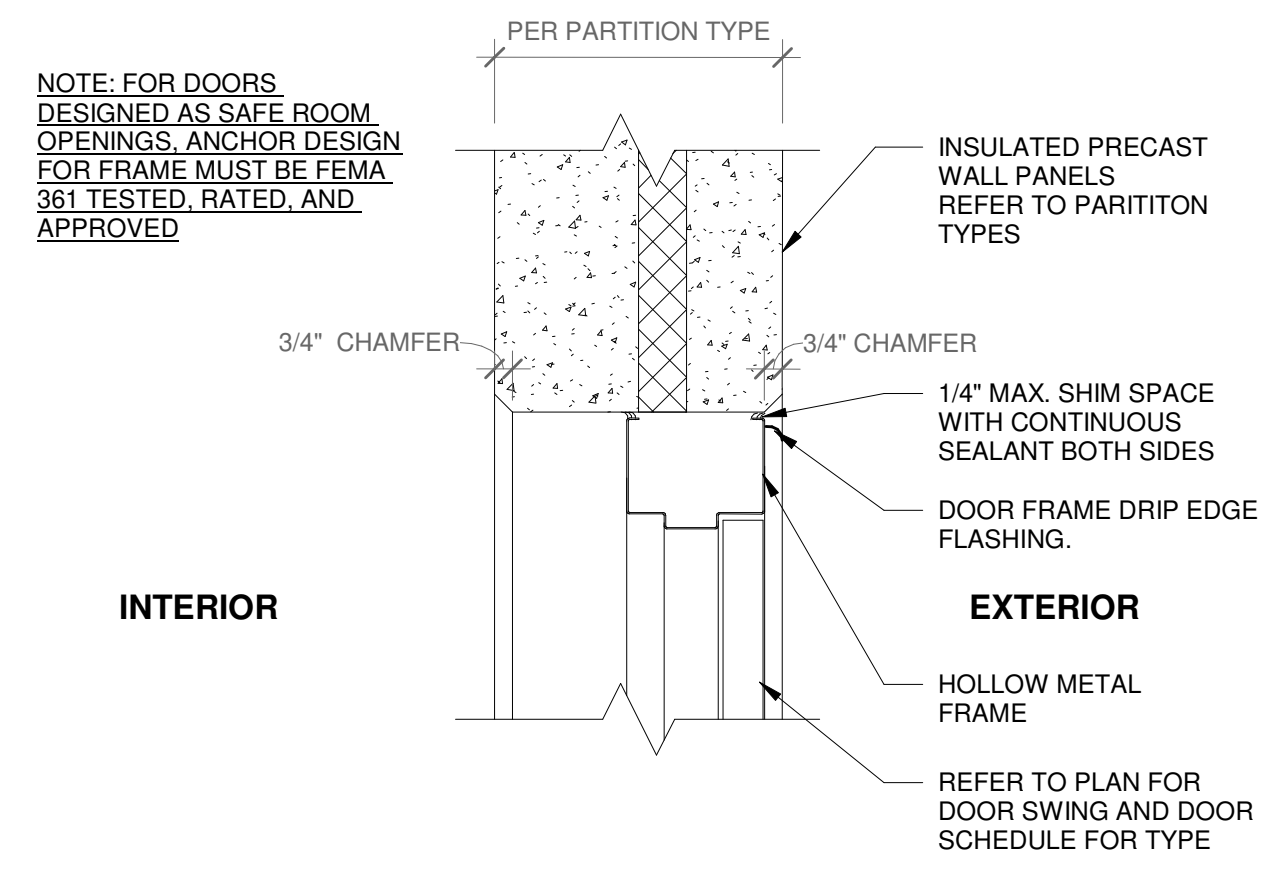
2 HM JAMB DETAIL @ MWP

SCALE 1 1/2" = 1'-0"



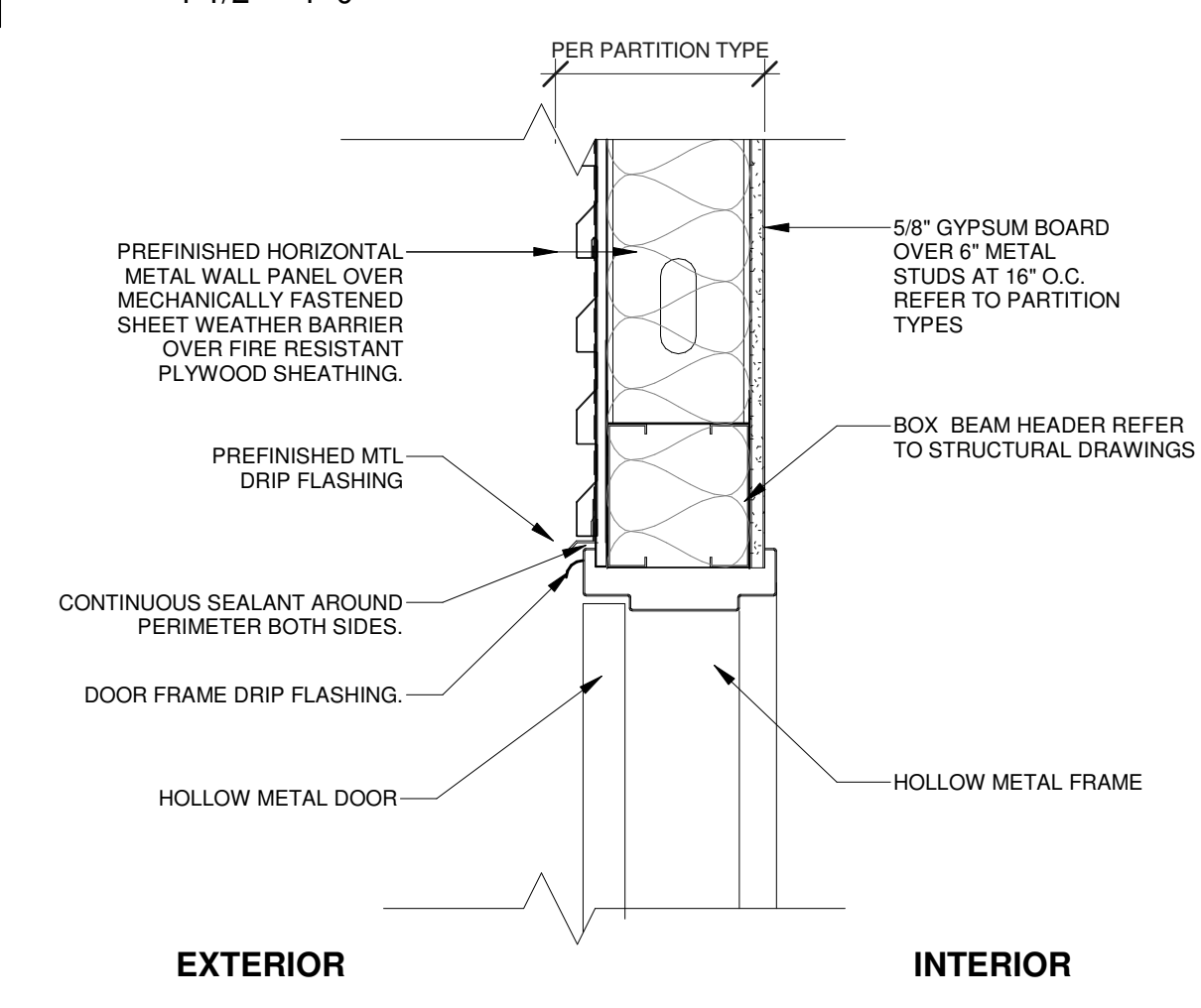
7 HM DOOR HEAD DETAIL

SCALE 1 1/2" = 1'-0"



4 HM HEAD DETAIL @ PRECAST PANEL

SCALE 1 1/2" = 1'-0"



1 HM HEAD DETAIL @ MWP

SCALE 1 1/2" = 1'-0"

DOOR SCHEDULE LEGEND

MATERIAL ABBREVIATIONS

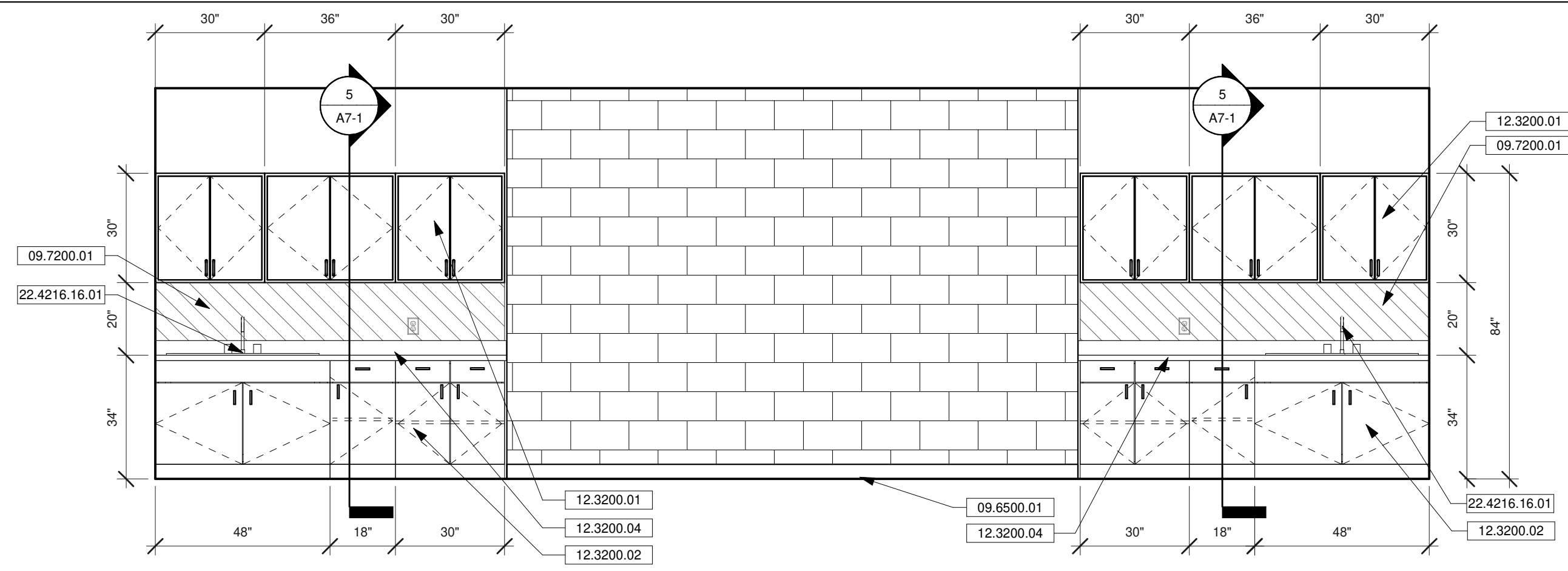
HM HOLLOW METAL
WD SOLID CORE WOOD
AL ALUMINUM FRAMED
GL GLASS

GLASS TYPES

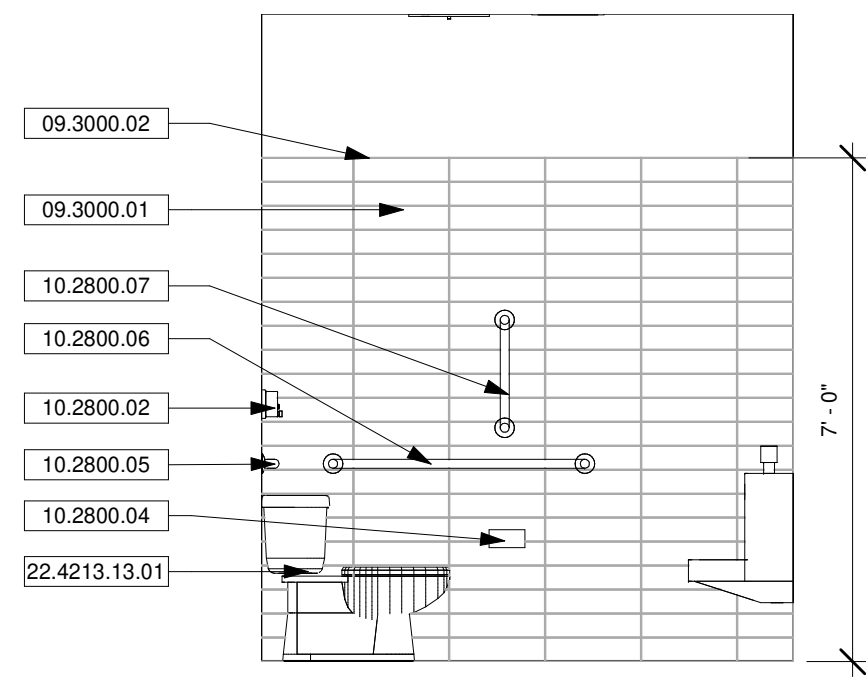
G1 LAMINATED GLASS
G2 FIRE-RATED GLASS
G3 ONE-WAY VISION GLASS
G4 DECORATIVE GLASS
G5 ELECTRIFIED GLASS
T TEMPERED GLASS

GENERAL NOTES:

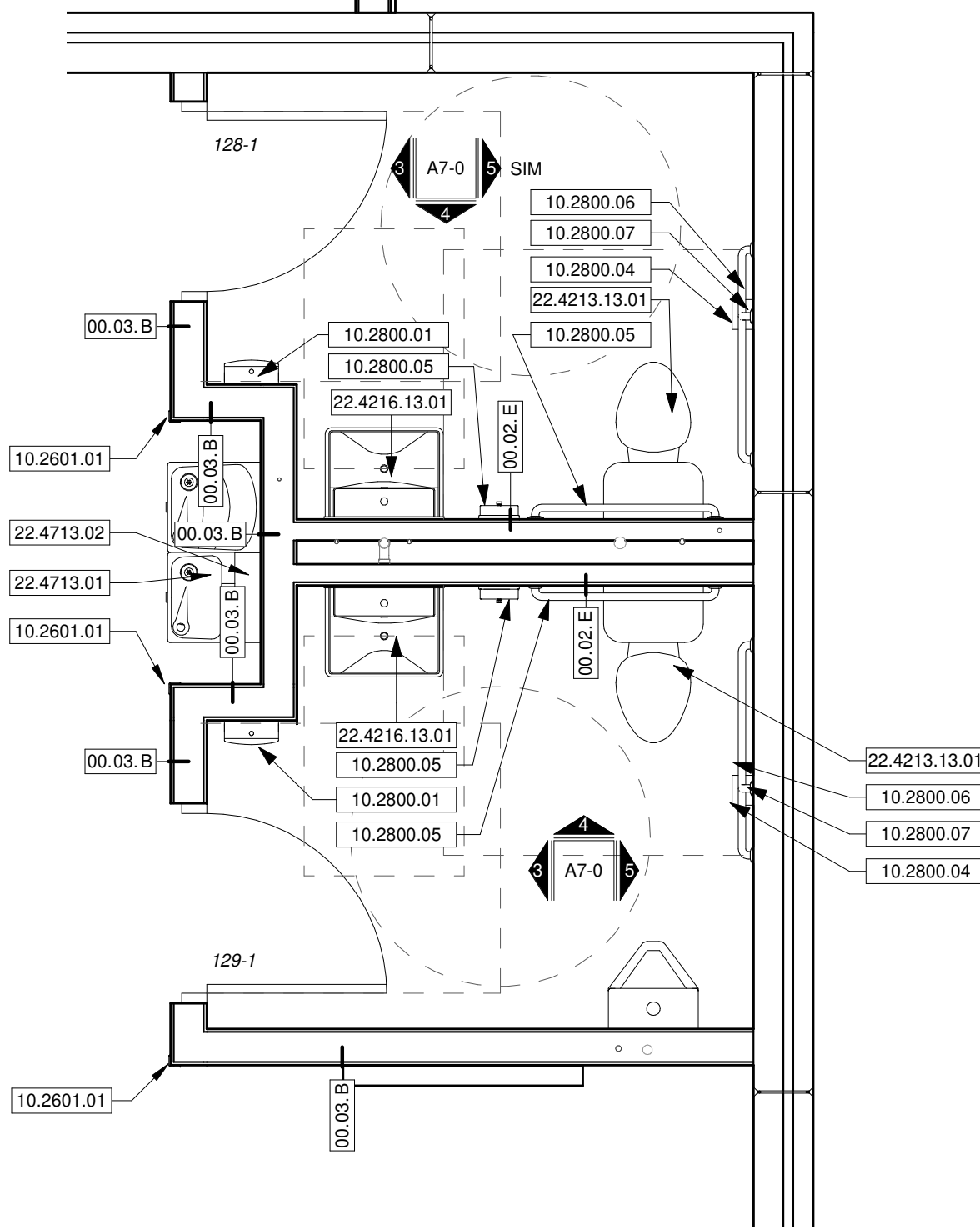
1. ALL GLASS IN DOORS, ADJACENT OR WITHIN 12" OF DOORS HORIZONTALLY, WITHIN 36" OF STAIRS OR CLOSER THAN 18" TO FLOOR TO BE TEMPERED PER CODE (IBC ADOPTED EDITION).



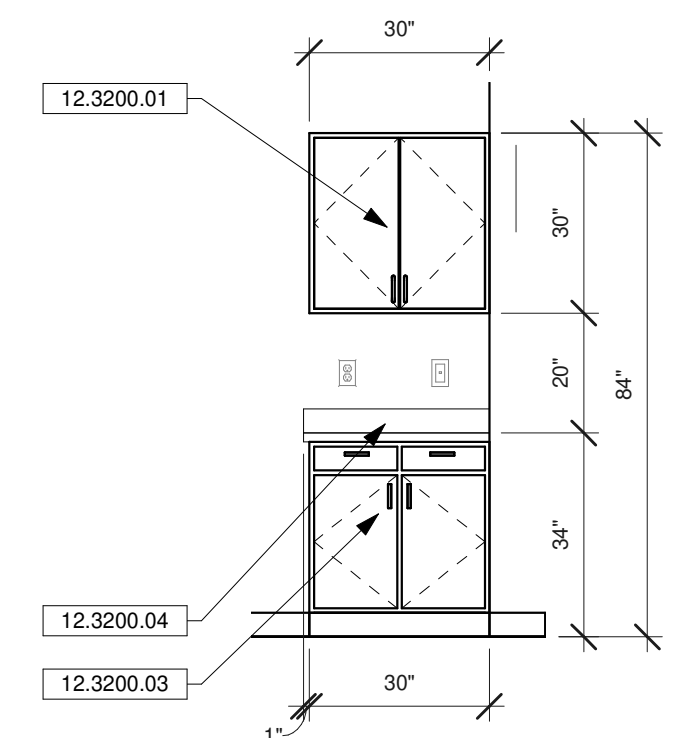
8 ART ROOM ELEVATION - BID ALTERNATE
SCALE 3/8" = 1'-0"



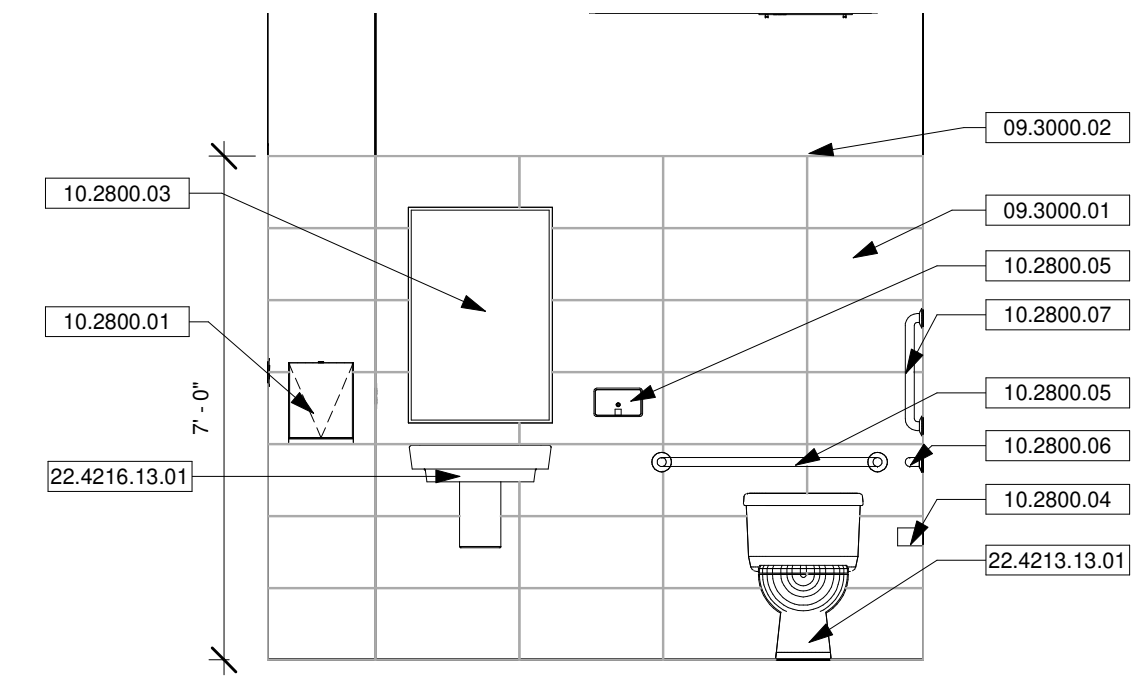
5 TOILET EAST
SCALE 3/8" = 1'-0"



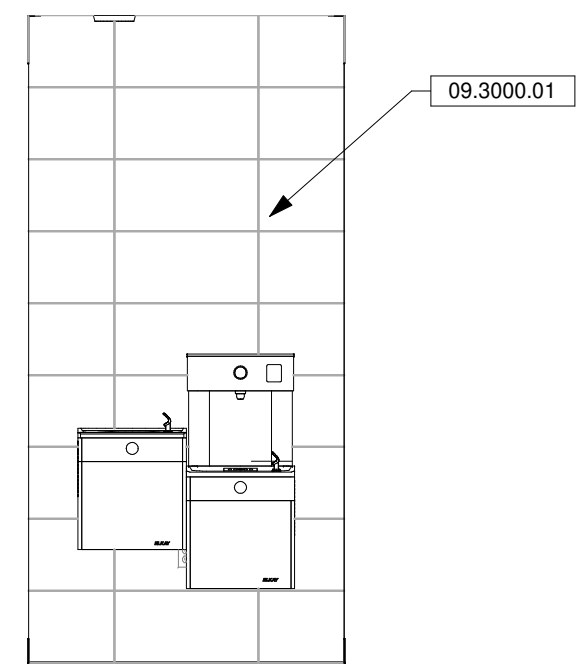
2 ENLARGED RESTROOM PLAN
SCALE 3/8" = 1'-0"



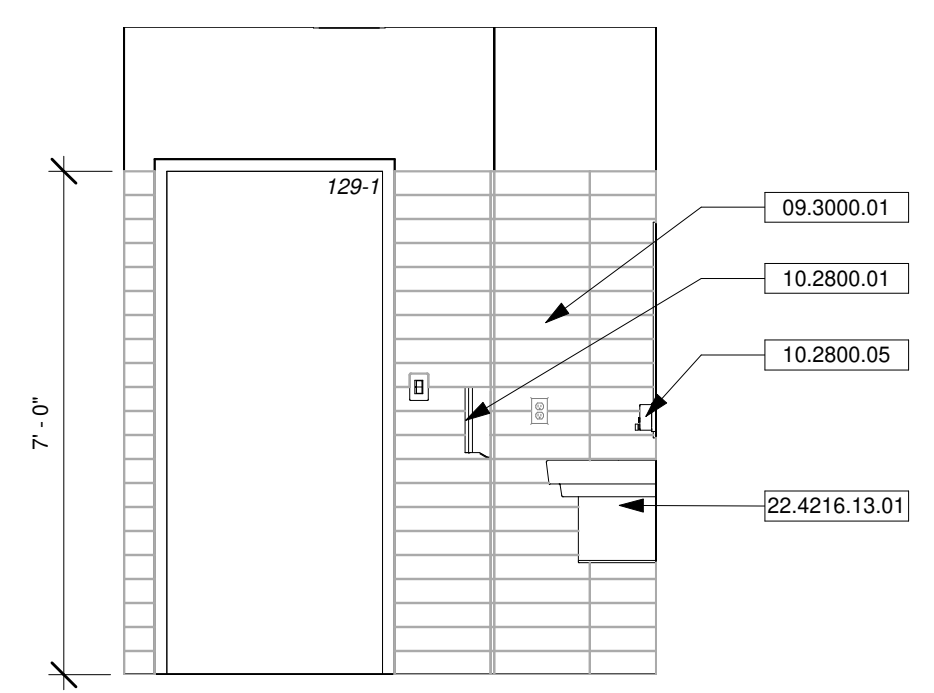
7 CASEWORK ELEVATION
SCALE 3/8" = 1'-0"



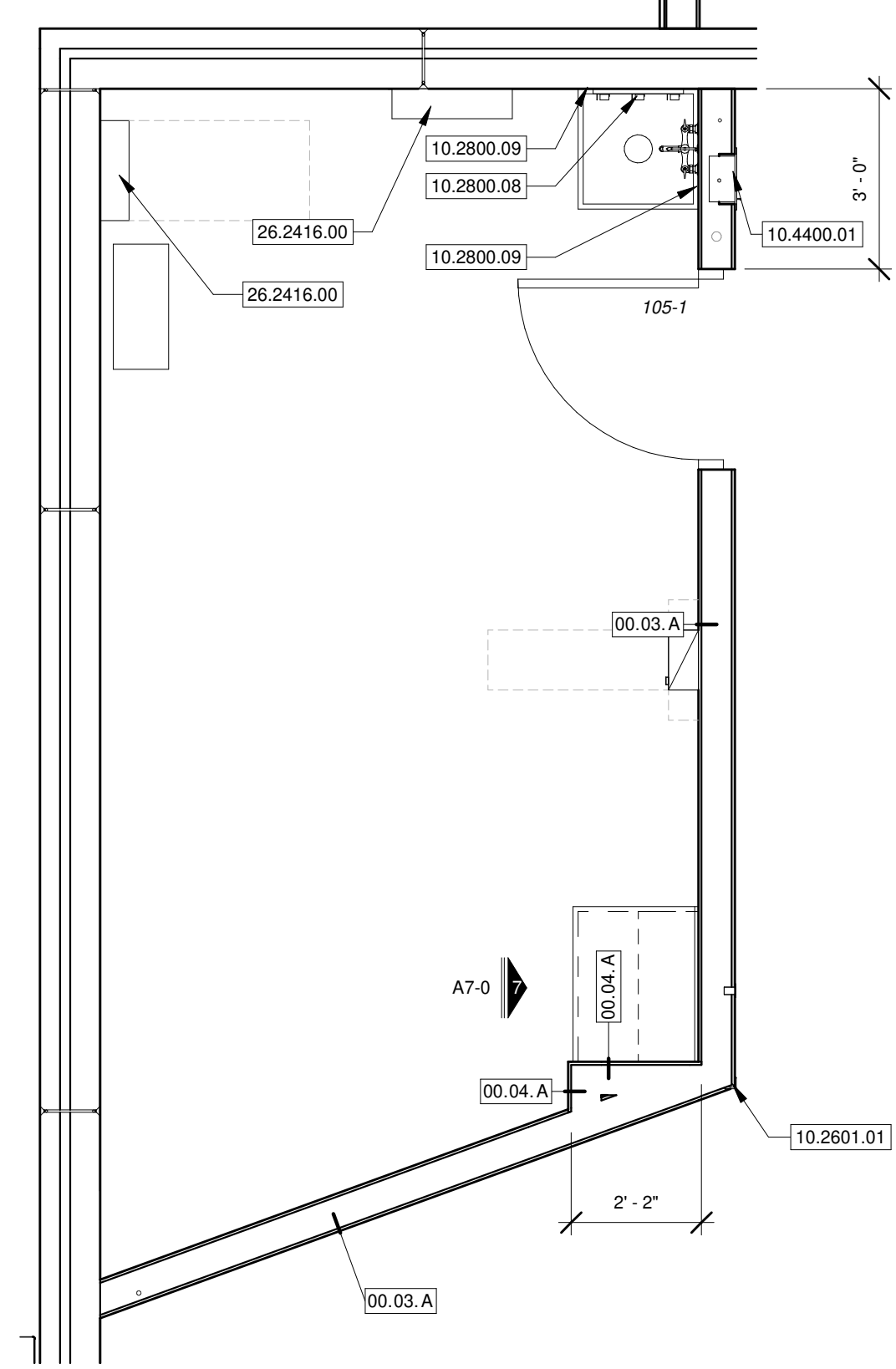
4 TOILET NORTH
SCALE 3/8" = 1'-0"



6 DRINK FOUNTAIN
SCALE 3/8" = 1'-0"



3 TOILET WEST
SCALE 3/8" = 1'-0"



1 MECHANICAL PLAN
SCALE 3/8" = 1'-0"

KEYNOTE LEGEND	
09.3000.01	PORCELAIN WALL TILE - SEE FINISH PLAN LEGEND FOR ADDITIONAL INFORMATION.
09.3000.02	TILE TRIM - SEE FINISH PLAN LEGEND FOR ADDITIONAL INFORMATION.
09.6500.01	RESILIENT WALL BASE, REFER TO FINISH LEGEND FOR ADDITIONAL INFORMATION.
09.7200.01	FRP WALL PROTECTANT SHEET. REFER TO FINISH PLAN LEGEND FOR ADDITIONAL INFORMATION.
10.2601.01	10.2800.01
10.2800.01	OFCI PAPER TOWEL DISPENSER. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.02	OFCI SOAP DISPENSER. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.03	RESTROOM MIRROR. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.04	OFCI TOILET TISSUE DISPENSER. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.05	36" LONG HORIZONTAL GRAB BAR. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.06	42" LONG HORIZONTAL GRAB BAR. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.07	18" LONG VERTICAL GRAB BAR. REFER TO RESTROOM ACCESSORIES AND FIXTURES SCHEDULE FOR MOUNTING HEIGHTS, PROVIDE MANUFACTURER RECOMMENDED IN WALL CAVITY BLOCKING.
10.2800.08	MOP HOLDER - SEE SPECIFICATIONS.
10.2800.09	STAINLESS STEEL SPLASH GUARD - SEE SPECIFICATIONS.
10.4400.01	FIRE EXTINGUISHER AND CABINET - SEE SPECIFICATIONS.
12.3200.01	PLASTIC LAMINATE CLAD UPPER CABINET WITH ADJUSTABLE SHELVES. PROVIDE REQUIRED IN WALL CAVITY BLOCKING FOR ATTACHMENT. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
12.3200.02	PLASTIC LAMINATE CLAD BASE CABINET WITH ADJUSTABLE SHELVES. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
12.3200.03	PLASTIC LAMINATE CLAD BASE CABINET WITH ADJUSTABLE SHELVES. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
12.3200.04	PLASTIC LAMINATE CLAD COUNTERTOP WITH 4" BACKSPLASH. PROVIDE 4" SIDE SPLASHES AT ADJACENT PERPENDICULAR WALLS. PROVIDE CONCEALED SUPPORT BRACKETS AS REQUIRED FOR SUPPORT. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
22.4213.13.01	COMMERCIAL WATER CLOSET. SEE MEP.
22.4216.13.01	COMMERCIAL LAVATORIES. SEE MEP.
22.4216.16.01	COMMERCIAL SINKS. SEE MEP.
22.4713.01	DRINKING FOUNTAINS WITH BOTTLE FILLER ON LOWER FOUNTAIN - SEE PLUMBING FOR MORE INFORMATION.
22.4713.02	BOTTLE FILLER - SEE MEP FOR MORE INFORMATION.
26.2416.00	PANLEBOARDS. SEE MEP.

- INTERIOR ELEVATION GENERAL NOTES**
- REFER TO M/E/P DRAWINGS TO COORDINATE CONNECTIONS WITH EQUIPMENT.
 - ALL DIMENSIONS ARE TAKEN TO THE FACE OF FINISHED MATERIAL.
 - INSTALL WOOD BLOCKING TO STUDS TO SUPPORT ALL WALL-MOUNTED CABINETRY, ACCESSORIES, AND EQUIPMENT AS REQUIRED.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTING CABINETRY.
 - ALL BASE CABINET'S SHALL BE 2'-0" DEEP UNLESS NOTED OTHERWISE.
 - PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ABUTS A WALL.
 - PROVIDE A 4" HIGH INTEGRAL BACK SPLASH ON ALL COUNTERS WITH RECESSED SINKS, UNLESS NOTED OTHERWISE. INSTALL SIDE SPLASHES WHERE THESE COUNTERS ABUT A WALL, UNLESS NOTED OTHERWISE.
 - PROVIDE ADJUSTABLE SHELVING WITHIN ALL WALL AND BASE CABINETRY AS SHOWN BY DASHED LINE.
 - PROVIDE 12" CLEAR INTERIOR DIMENSION ON ALL UPPER WALL CABINETS UNLESS NOTED OTHERWISE.
 - COORDINATE BULKHEAD HEIGHTS INDICATED HERE WITH THAT SHOWN ON THE REFLECTED CEILING PLAN. CONFIRM ANY DISCREPANCIES WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
 - COORDINATE ALL WALL OUTLETS TO AVOID CONFLICT WITH CASEWORK.
 - PAINTING CONTRACTOR IS TO STENCIL WALL RATING ON WALLS INDICATED AS RATED ABOVE THE CEILING ON 20'-30" INTERVALS.

STATE OF MISSOURI
JARED A. YOUNGLOVE
ARCHITECT
A-2017019282
8/31/21
JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282
COPYRIGHT 2021 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC
AND SHALL BE USED ONLY FOR THE PROJECT REFERENCE BELOW.

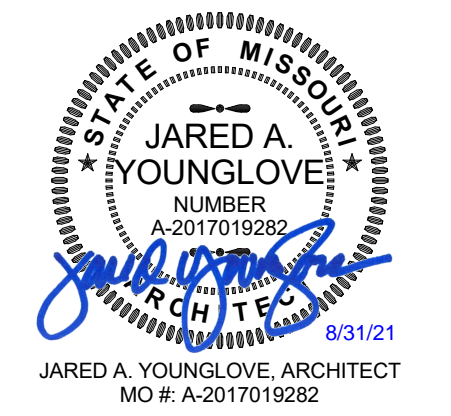
MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON
ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

REVISION SCHEDULE

PROJECT DESCRIPTION:
A7-0 CABOOL M.S. TORNADO SAFE ROOM
ENLARGED PLANS AND INTERIOR ELEVATIONS
PROJECT NUMBER:
20-606
1025 ROGERS AVENUE
CABOOL, MISSOURI 65699
PROJECT ARCHITECT: JAY NSE, KS
DRAWN BY: JAY NSE, KS
CHECKED BY: PHY

SHEET NUMBER:
20-606-01
DATE:
08/16/2021



JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282

THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-2016000415

PARAGON

ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

REVISION SCHEDULE

PROJECT DESCRIPTION:
A8-0 CABOOL M.S. TORNADO SAFE ROOM
REFLECTED CEILING PLAN AND FINISH PLAN

PROJECT NUMBER:
20-606

DATE:
08/16/2021

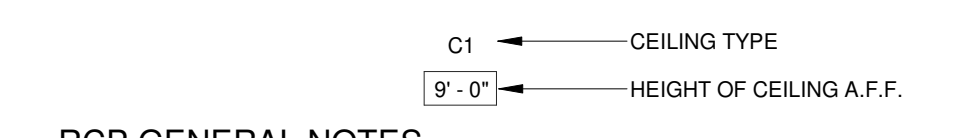
DRAWN BY:
JAY NSE, KS

CHECKED BY:
PHY

CEILING SCHEDULE	
TYPE	DESCRIPTION
C1	2X2 HIGH NRC/ HIGH CAC ACOUSTICAL TILE CEILING
C2	2X4 ACOUSTICAL TILE CEILING
C3	2X2 HIGH NRC/ HIGH CAC ACOUSTICAL TILE CEILING WITH LAY-IN BATT INSULATION ON TOP OF TILE.

KEYNOTE LEGEND	
02.4100.06	TIE IN NEW SUSPENDED ACOUSTICAL TILE CEILING WITH EXISTING.
07.9513.02	INTERIOR CEILING EXPANSION JOINT - SEE SPECIFICATIONS.
07.9513.03	INTERIOR CEILING-WALL EXPANSION JOINT - SEE SPECIFICATIONS.
09.5426.01	NEW SUSPENDED 2X4 ACOUSTICAL TILE CEILING TO MATCH ORIENTATION OF EXISTING.
23.0000.00	HVAC, SEE MEP
23.3713.01	LINEAR SLOT SUPPLY DIFFUSER - SEE MEP FOR MORE INFORMATION.
23.7000.04	EXHAUST FAN - SEE MEP FOR MORE INFORMATION.

REFLECTED CEILING PLAN LEGEND



- RCP GENERAL NOTES**
- ALL EXPOSED GYPSUM BOARD SOFFITS TO BE PAINTED.
 - CEILING HEIGHTS NOTED FROM FINISH FLOOR 100'-0" UNLESS NOTED OTHERWISE.
 - COORDINATE REFLECTED CEILING PLAN WITH LIGHTING AND MECHANICAL PLANS FOR LIGHT FIXTURE AND DIFFUSER PLACEMENT. CONTACT ARCHITECT IF DISCREPANCIES OCCUR.
 - LIGHTING AND EXPOSED MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MPE SERIES SHEETS FOR ADDITIONAL INFORMATION.
 - REFER TO GENERAL NOTES ON FLOOR PLAN SHEET FOR TYPICAL GENERAL NOTES WHICH APPLY HEREIN.
 - PROVIDE APPROPRIATE FINISH AND/OR TRIM AT ALL PENETRATIONS IN WALL/DECK AT EXPOSED FINISH CEILING LOCATIONS. CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT ALL MINOR GAPS AT EXPOSED PENETRATIONS. AT LARGE GAP OR ROUGH CUT PENETRATIONS CONTRACTOR SHALL PROVIDE SHEET METAL TRIM NECESSARY FOR A FINISHED APPEARANCE. PAINT TRIM AND SEALANTS TO MATCH WALL/CEILING, TYP.

FINISH PLAN LEGEND

- LVT:** LUXURY VINYL TILE
MANUF: SHAW CONTRACT, PRODUCT: SOUNDSCAPE, COLOR: FEATHER, SIZE: 6"X48", PATTERN: 1/2 RUNNING BOND
- SC:** SEALED CONCRETE
- FT1:** TILE
MANUF: DAL TILE, PRODUCT: PLAZA NOVA, FINISH: GREY, SIZE: 12"X24", PATTERN: 1/2 RUNNING BOND, 1/8" GROUT JOINT.
NOTE: PROVIDE TRANSITION STRIP AT ALL TILE/LVT FLOORING TRANSITIONS. BASIS-OF-DESIGN: SCHLUTER SCHIENE-10-AE
NOTE: PROVIDE METAL COVE PROFILE TRIM WHEREVER WALL TILE MEETS FLOOR TILE. BASIS-OF-DESIGN: SCHLUTER AHK-1S-100-AE.
- GROUT:** BOSTIK TRUCOLOR URETHANE, COLOR: DELOREAN GRAY

WALL BASE

- B1:** 6" RESILIENT WALL BASE. BASIS-OF-DESIGN TO BE JOHNSONITE TRADITIONAL WALL BASE. COLOR: BEDROCK.

PAINT

- PT1 THROUGH 4:** PAINT COLORS, BASIS-OF-DESIGN TO BE SHERWIN-WILLIAMS EGGSHELL U.N.O.
- PT1:** FIELD COLOR: BIG CHILL SW7648
- PT2:** ACCENT COLOR: SALTY DOG SW9177
- PT3:** HOLLOW METAL DOOR & FRAME, SEMI-GLOSS: CITYSCAPE SW7067
- PT4:** ACCENT COLOR: CITYSCAPE SW7067

PLASTIC LAMINATE

- PLAM1 THROUGH 2:** PLASTIC LAMINATE. BASIS-OF-DESIGN: WILSONART UNLESS NOTED OTHERWISE.
- PLAM1:** COLOR: STEEL MESH, LOCATION: HORIZONTAL SURFACES.
- PLAM2:** MANUF: PIONITE, COLOR: LOOKS LIKATRE WP110, FINISH: SUEDE, LOCATION: VERTICAL SURFACES.

OTHER

- WT1:** WALL TILE. BASIS-OF-DESIGN: DAL TILE, PRODUCT: COLOR WHEEL LINEAR, MATTE DESERT GREY, SIZE: 4"X16", PATTERN: STACKED, 1/8" GROUT JOINT.
- WT2:** WALL TILE. BASIS-OF-DESIGN: DAL TILE, PRODUCT: MULTITUDE, COLOR: NOSTALGIC BLUE MUI3, SIZE: 12"X24", PATTERN: STACKED, 1/8" GROUT JOINT.
- GROUT:** BOSTIK TRUCOLOR URETHANE, COLOR: DELOREAN GRAY
- NOTE:** PROVIDE CONTINUOUS TRIM EDGE AT TOP OF TILE AND EXTERIOR CORNER TERMINATIONS. BASIS OF DESIGN: PROGRESS PROFILES PTAC508 PROTERMINAL SATIN STAINLESS 8"X10"

- FRP:** WALL PROTECTANT
MANUF: KOROSEAL, PRODUCT: KOROARD, SOLID CORE SHEET. PRODUCT LINE TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.

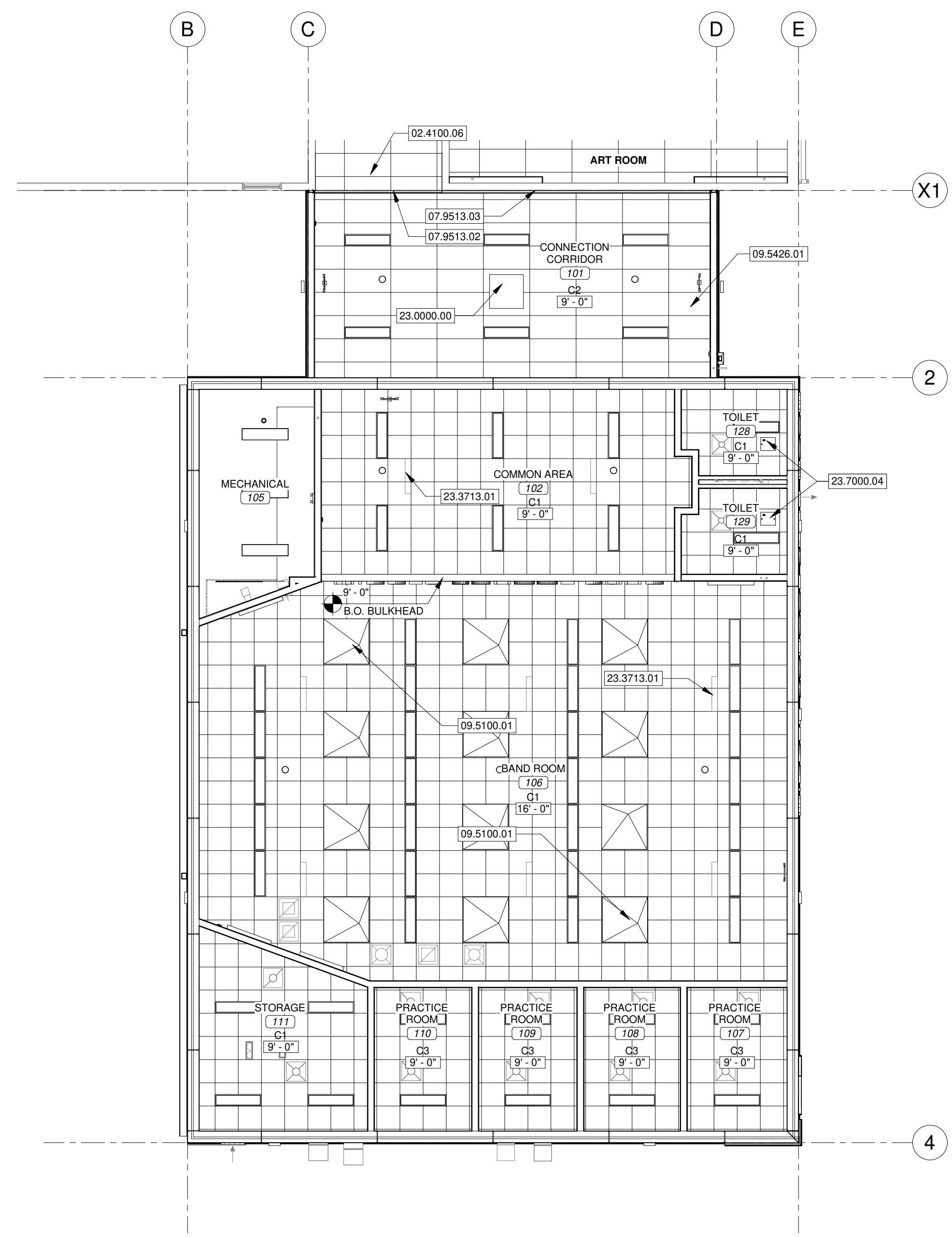
- CORNER GUARDS:** CORNER GUARDS
BASIS OF DESIGN: INPRO STAINLESS STEEL CORNER GUARDS, 8'-0" HEIGHT
LOCATION: ALL OUTSIDE CORNERS U.N.O.

- WOOD DOORS:**
BASIS OF DESIGN: MANUF: VT INDUSTRIES, ARCHITECTURAL WOOD DOORS, SPECIES: WHITE BIRCH, COLOR: CUSTOM MATCH PLAM2, FINAL SELECTION SHALL BE APPROVED BY ARCHITECT.

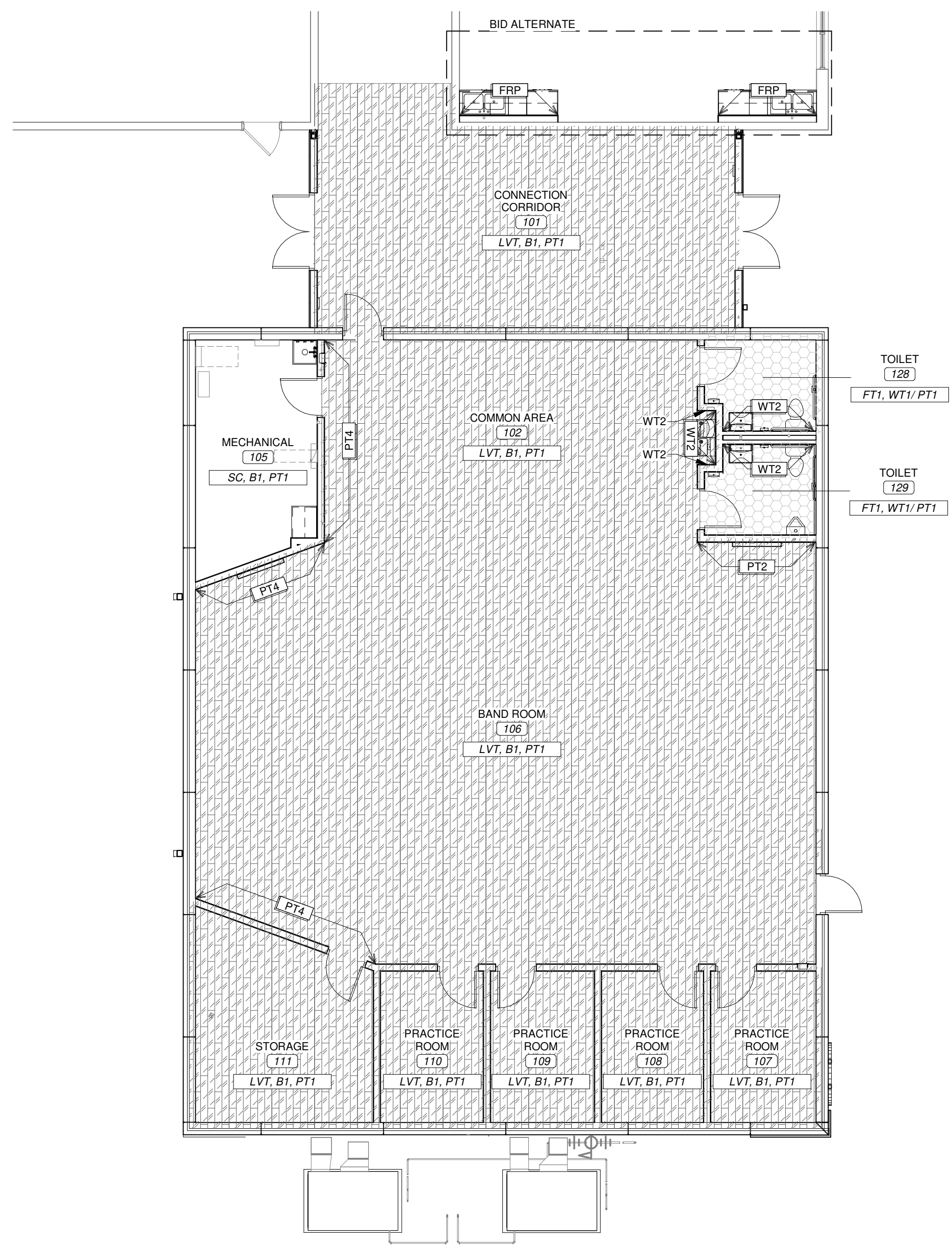
- SOUND ABSORBING WALL UNITS:**
- WALL PANEL A:** BASIS OF DESIGN - GOLTERMAN & SABO, RESOLUTE R2, 1'X2', LOCATIONS AS SHOWN IN ELEVATIONS. COLOR: GREY
 - WALL PANEL B:** BASIS OF DESIGN - GOLTERMAN & SABO, RESOLUTE R2, 1'X2', LOCATIONS AS SHOWN IN ELEVATIONS. COLOR: BLUE
 - WALL PANEL C:** BASIS OF DESIGN - GOLTERMAN & SABO, RESOLUTE R2, 1'X2', LOCATIONS AS SHOWN IN ELEVATIONS. COLOR: WHITE

GENERAL NOTES

- TRANSITION BETWEEN FLOORING TYPES MUST INCLUDE A TRANSITION STRIP AND/OR NOSING IN A COLOR MATCHING WALL BASE COLOR UNLESS NOTED OTHERWISE.
- REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.
- FIELD FLOOR FINISH NOTATED WITHIN FINISH TAG. ACCENT FLOOR FINISHES ARE SHOWN WITH A HATCH PATTERN ON FINISH PLANS WHERE APPLICABLE.



2 REFLECTED CEILING PLAN FIRST LEVEL
SCALE 1/8" = 1'-0"



1 FINISH PLAN FIRST LEVEL
SCALE 1/8" = 1'-0"

PLUMBING PIPES:

Table listing plumbing pipe types and their abbreviations, including Domestic Cold Water, Domestic Hot Water, and various waste pipes.

FIRE PROTECTION PIPES:

Table listing fire protection pipe types and their abbreviations, including Fire Service, Fire Protection Standpipe, and Fire Sprinkler lines.

MEDICAL GAS PIPES:

Table listing medical gas pipe types and their abbreviations, including Medical Vacuum Piping, Medical Oxygen Piping, and Medical Nitrogen Piping.

HVAC PIPES:

Table listing HVAC pipe types and their abbreviations, including Chilled Water Supply, Chilled Water Return, and various heating and cooling lines.

PIPE PHASING:

Table listing pipe phasing types and their abbreviations, including Improvement - Service as Noted Above and Demolished - Service as Noted Above.

PIPE FITTINGS AND VALVES:

Table listing pipe fittings and valves with their symbols and abbreviations, including Shut-off Valve, Check Valve, Balancing Valve, and various types of valves.

TEMPERATURE CONTROLS:

Table listing temperature control symbols and abbreviations, including Thermostat, Temperature Sensor, Humidity Sensor, and Carbon Dioxide Sensor.

PLUMBING FIXTURES:

Table listing plumbing fixtures with their symbols and abbreviations, including Plumbing Fixture Plan Mark Tag, Flush Tank Water Closet, and various types of sinks and showers.

PIPE SPECIALTIES:

Table listing pipe specialties with their symbols and abbreviations, including Drainage Pipe Specialty Tag, Flush Floor Cleanout, and various types of floor drains and troughs.

DUCTWORK:

Table listing ductwork types and their abbreviations, including Branch Duct with 45 Degree Boot Fitting, Equipment with Flexible Duct Connection, and various types of ducts and diffusers.

DAMPERS:

Table listing damper types and their abbreviations, including Volume Damper with Locking Quadrant, Fire Damper, and various types of dampers.

TEMPERATURE CONTROLS:

Table listing temperature control symbols and abbreviations, including Thermostat, Temperature Sensor, Humidity Sensor, and Carbon Dioxide Sensor.

LUMINAIRES:

Table listing luminaire types and their abbreviations, including Recessed Light Fixture, Light Fixture, and various types of ceiling and wall mounted fixtures.

RACEWAYS:

Table listing raceway types and their abbreviations, including Conduit or Circuit Concealed in Ceiling or Wall, Exposed Conduit or Circuit, and various types of raceways.

POWER EQUIPMENT:

Table listing power equipment types and their abbreviations, including Lighting and Appliance Panel, Disconnect Switch, and various types of electrical equipment.

WIRING DEVICES AND OUTLETS:

Table listing wiring devices and outlets with their abbreviations and descriptions, including 20 Amp Single Pole Switch, Three-Way Switch, and various types of switches and outlets.

FIRE ALARM:

Table listing fire alarm devices and their abbreviations, including Water Flow Switch, Valve Tamper Switch, and various types of fire alarm components.

NURSE CALL:

Table listing nurse call devices and their abbreviations, including Nurse Call Master Station, Nurse Call Annunciation Panel, and various types of nurse call components.

COMMUNICATIONS:

Table listing communication devices and their abbreviations, including Telephone Outlet, Data/Telephone Combination Outlet, and various types of communication components.

SECURITY:

Table listing security devices and their abbreviations, including Door Alarm Contact, Door Alarm Annunciator, and various types of security components.

ELECTRICAL NOTATIONS:

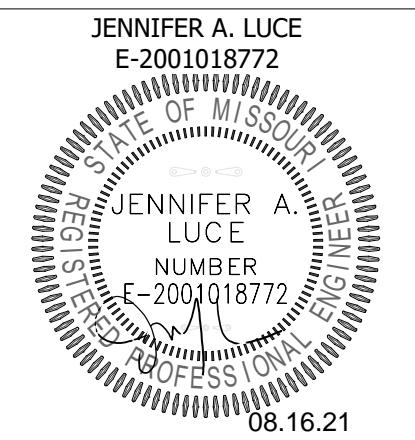
Table listing electrical notations and their meanings, including AC, IG, SS, TR, WP, WPI, XP, 60", and (TIE).

ABBREVIATIONS:

Table listing abbreviations and their meanings, including AD, AFF, AFG, AHU, C, CO, D, CU, CUH, CW, CWR, CWS, DF, DN, EF, EWC, FCU, FD, FFCO, FGCO, FTR, FWCO, G, HHP, HP, HW, HWR, HWS, OA, OC, RA, SA, UH, UNO, UV, V, VTR, W.

PLAN NOTATIONS:

Table listing plan notations and their meanings, including North arrow, Detail Reference, Plan Note Reference, and Section Reference.



JENNIFER A. LUCIE
E-2001018772
STATE OF MISSOURI
PROFESSIONAL ENGINEER

MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

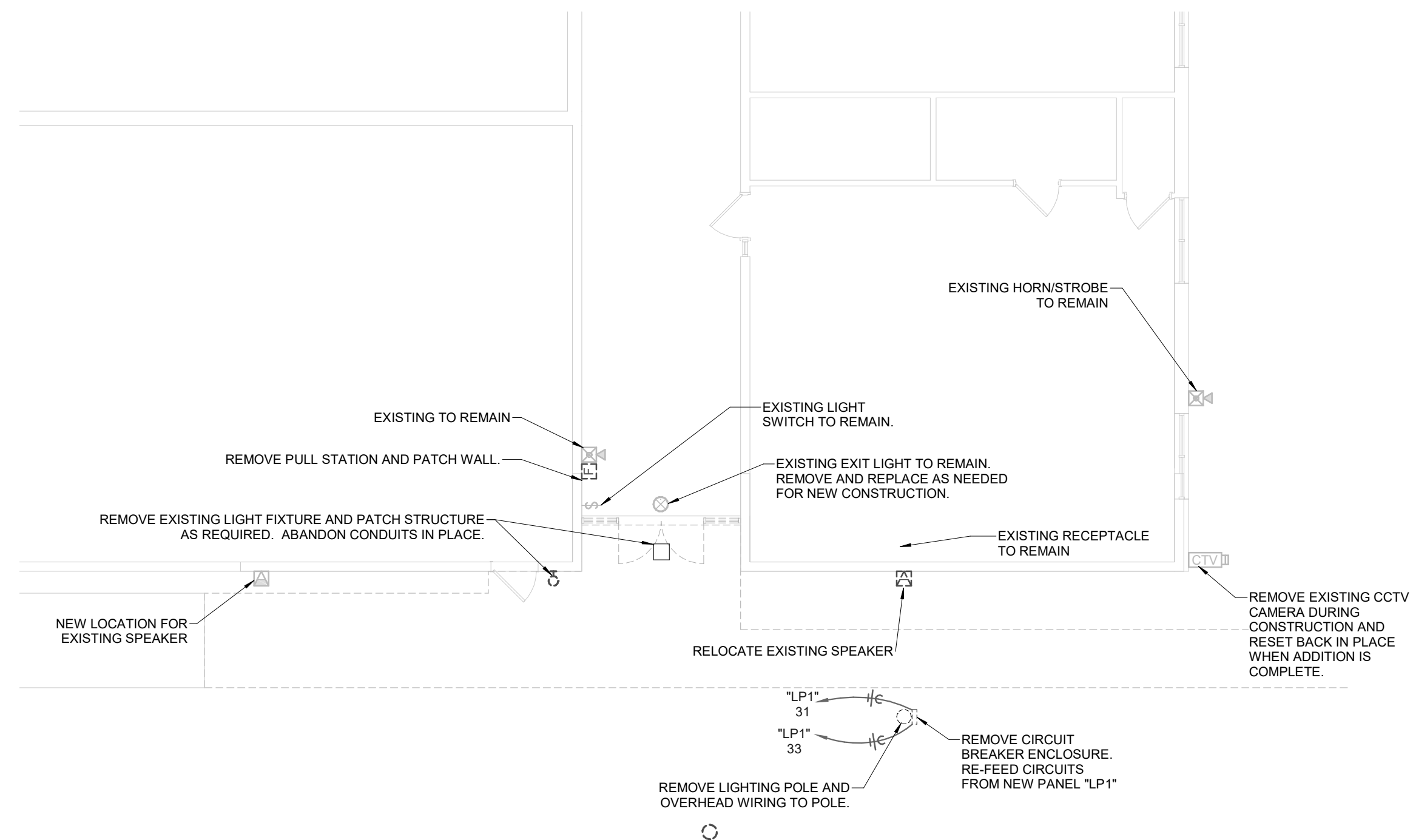
PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

PROJECT DESCRIPTION:
ME1 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM
SYMBOLS LEGEND

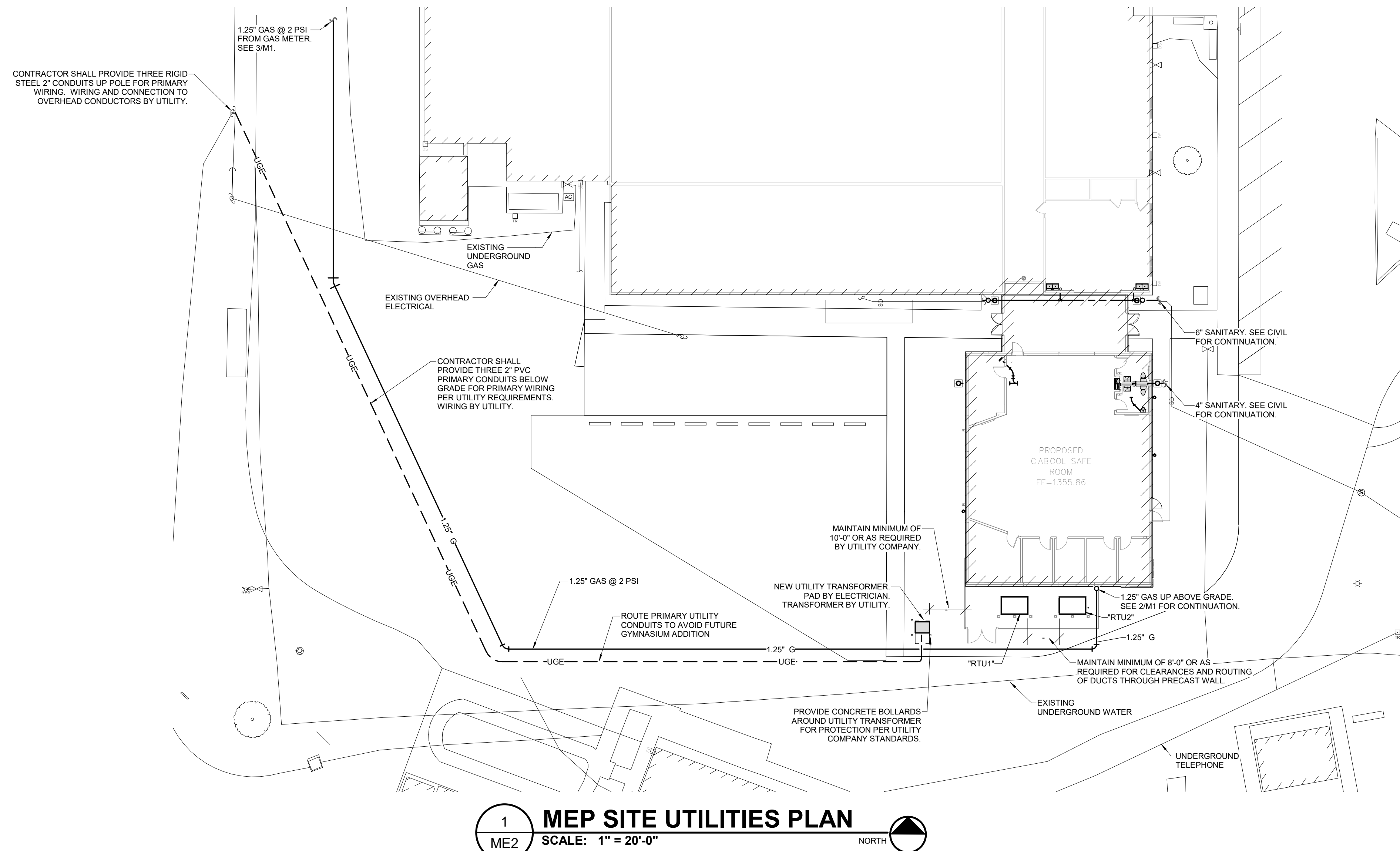
PROJECT NUMBER: 20-606
DATE: 2/23/2021

ENGINEER OF RECORD: JAL
DRAWN BY: Designer
CHECKED BY: Checker

1025 Rogers Ave
Cabool, MO 65689



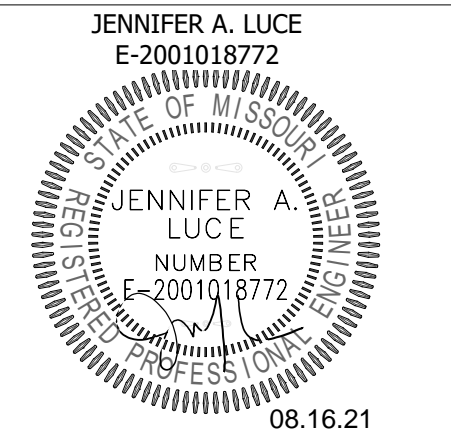
2 MEP DEMOLITION PLAN
 ME2 SCALE: 1/8" = 1'-0" NORTH



1 MEP SITE UTILITIES PLAN
 ME2 SCALE: 1" = 20'-0" NORTH

GENERAL DEMOLITION NOTES:

- A. THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
- B. ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE 2017 NEC AS ADOPTED BY THE LOCAL AHJ.
- C. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, PULL BOXES, ETC. FOR DEMOLISHED ITEMS. TURN OFF BREAKERS AND LABEL AS 'SPARE' IN THE PANELBOARD DIRECTORY.
- D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS AND EQUIPMENT. STORE ITEMS ON SITE AS DIRECTED BY OWNER.
- E. CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY AND ARRANGE FOR ELECTRICAL SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. CONTACT STACY MONTER WITH CITY OF CABOOL AT (417) 962-3136 OR SMONTERCABOOLELECTRIC@GMAIL.COM
- F. WHERE DEMOLISHED ELECTRICAL DEVICES ARE PART OF A CIRCUIT THAT IS THRU-WIRED, OR HAS ADDITIONAL DEVICES ON THE CIRCUIT THAT ARE TO REMAIN UNCHANGED, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE EXISTING CIRCUIT. ANY ADDITIONAL CONDUIT, WIRING, BOXES, ETC. NEEDED TO MODIFY THE EXISTING CIRCUIT TO MAINTAIN THE INTEGRITY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE BASE BID.
- G. EXISTING CONDITIONS ON THIS SET OF CONSTRUCTION DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
- H. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR PHASING AND EXTENTS OF DEMOLITION.
- I. PROVIDE TEMPORARY POWER OR LIGHTING REQUIRED BY THE CONSTRUCTION MANAGER.
- J. CONTRACTOR RESPONSIBLE FOR ALL CORING, PATCH, AND REPAIR OF ALL WALL AND FLOOR SYSTEMS AS REQUIRED DUE TO NEW CONSTRUCTION. MAINTAIN ALL FIRE RATINGS.
- K. REMOVE ALL UNUSED CONDUIT AND WIRING LOCATED WITHIN THE AREA OF CONSTRUCTION.
- L. REMOVE AND REPLACE COVERPLATES AS NEEDED ON EXISTING WALLS DUE TO NEW FINISHES.
- M. REFER TO ARCHITECTURAL DRAWINGS FOR ALL EXISTING EQUIPMENT REQUIRED TO BE RELOCATED. CONTRACTOR SHALL FULLY COORDINATE SCHEDULE OF RELOCATING EQUIPMENT WITH OWNER.



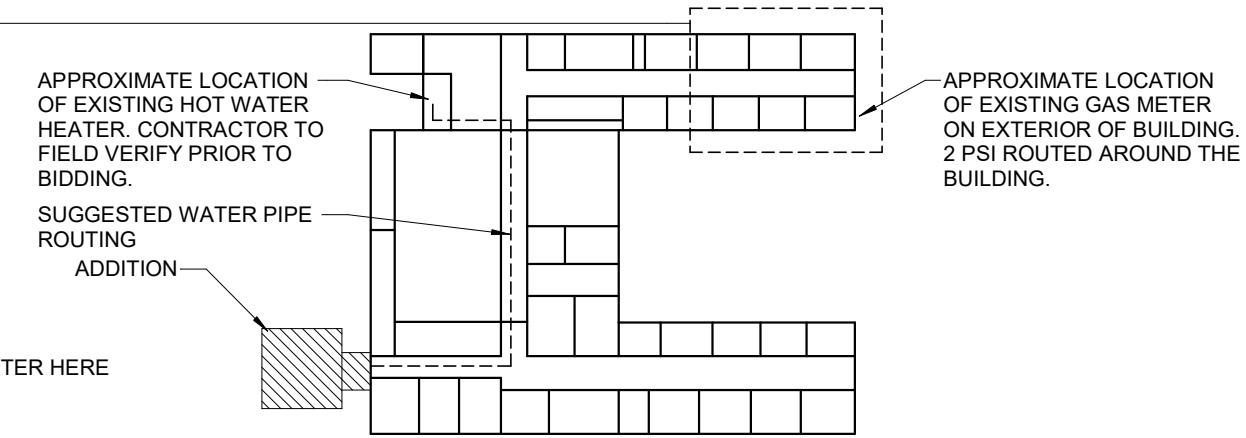
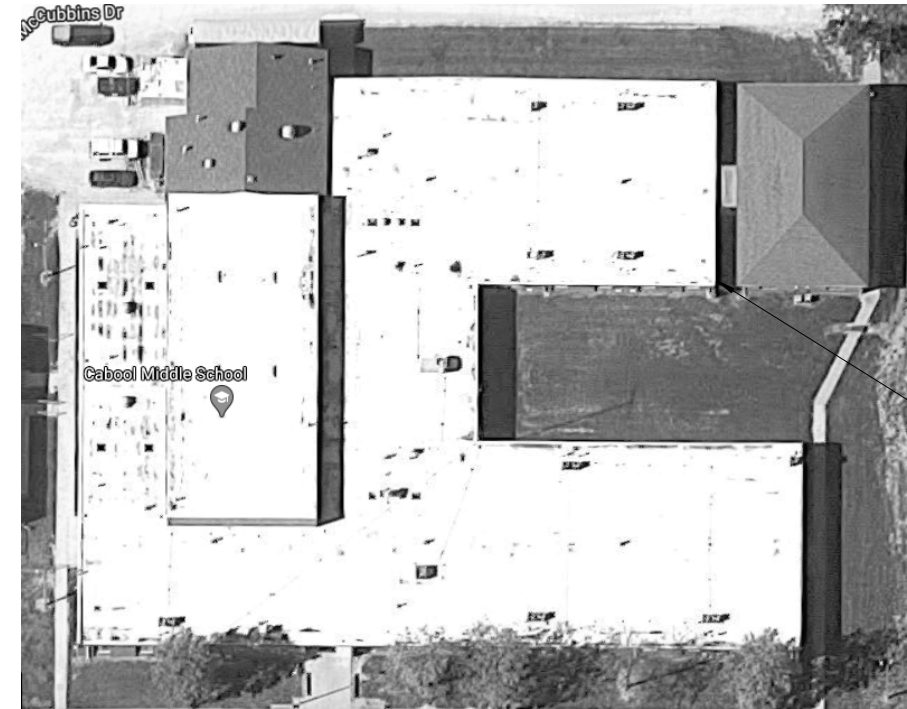
MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

PARAGON ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

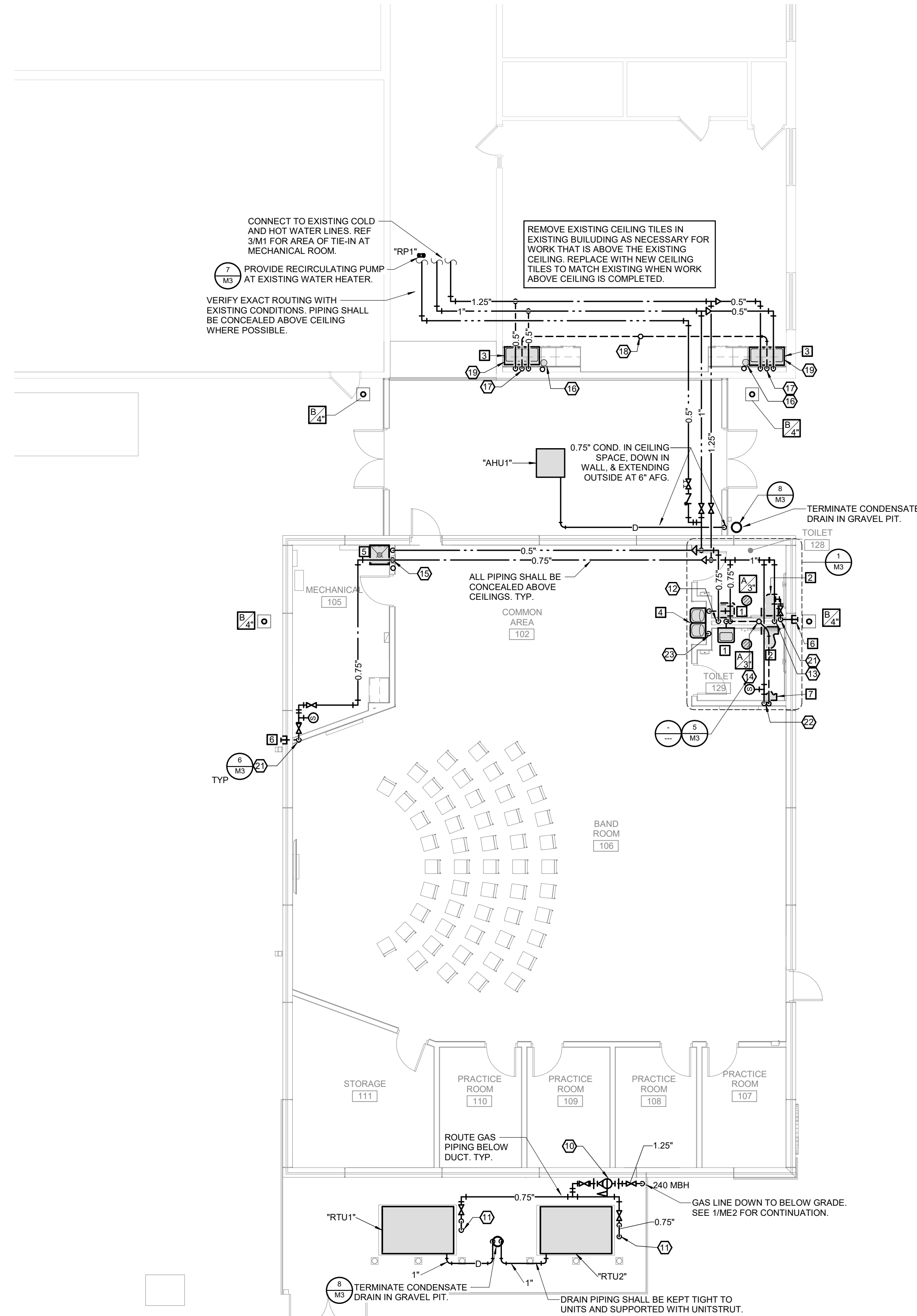


ME2 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM SITE UTILITIES PLAN

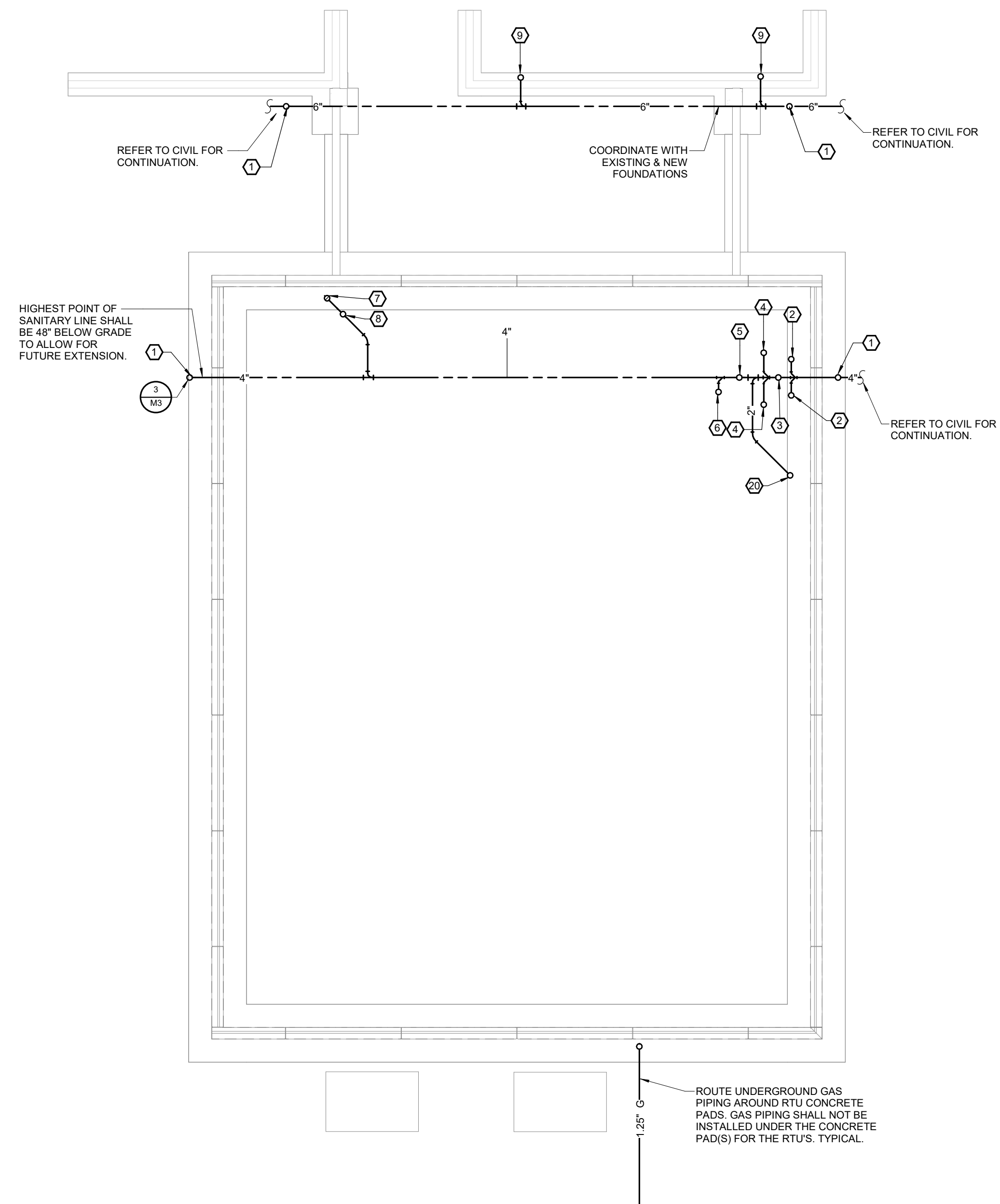
SHEET NUMBER: PROJECT DESCRIPTION:
 PROJECT NUMBER: 20-606
 DATE: 2/23/2021
 ENGINEER OF RECORD: JAL
 DRAWN BY: JMC
 CHECKED BY: JAL



3 EXISTING BUILDING PLAN
SCALE: NOT TO SCALE



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



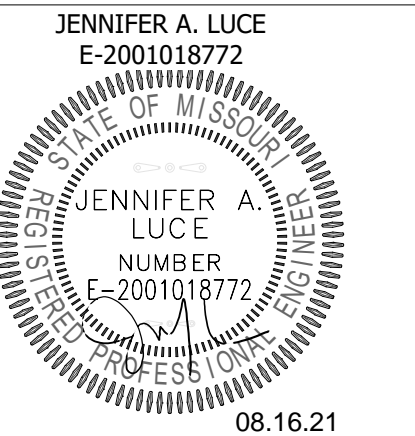
1 UNDERGROUND PLUMBING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2012 EDITION OF THE INTERNATIONAL PLUMBING CODE.
- B. FOR ALL MECHANICAL QUESTIONS ON THIS PROJECT, CONTACT RTM ENGINEERING CONSULTANTS AT (417) 429-8213. CONTACT: JAMES COUCH.
- C. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
- D. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
- E. TEST ALL LINES, SYSTEMS, EQUIPMENT BEFORE THEY ARE INSULATED, PAINTED, OR CONCEALED BY CONSTRUCTION OR BACKFILLING. PROVIDE FUEL, WATER, ELECTRICITY, MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR TESTS. REPAIR OR REPLACE DEFECTS, LEAKS, AND MATERIALS FAILURES REVEALED BY TESTS AND THEN RETESTED UNTIL SATISFACTORY. MAKE REPAIRS WITH NEW MATERIALS.
- F. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.
- G. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION BOXES, ETC., LOCATED IN CONCEALED SPACES.
- H. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- I. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
- J. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.
- K. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
- L. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
- M. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- N. PENETRATIONS IN FEMA AREA SHALL BE SEALED AND PROTECTED TO MEET ALL ICC-500 AND FEMA P-361 REQUIREMENTS.
- O. PROVIDE ALL ANCHORS AND SUPPORTS FOR PENETRATIONS THROUGH FEMA ENCLOSED AREA TO BE ADEQUATELY SUPPORTED DURING STORM EVENTS TO NOT DAMAGE INTERIOR IF PIPE/CONDUIT/DUCT BREAKS FREE.
- P. PIPING AND CONDUITS OVER 1.5" DIAMETER - PIPE/CONDUITS SHALL SHIFT VERTICALLY AND HORIZONTALLY ON EACH SIDE OF THE WALL AND SHALL BE PROVIDED WITH PROTECTIVE GAGE ON EACH SIDE OF WALL. THE GAGE SHALL BE 2"x2"x8" ANGLE IRON FRAME WITH 0.5" WELDED REBAR IN 2"x2" PATTERN AND SECURELY ANCHORED ON THE WALLS PER STRUCTURAL REQUIREMENTS.
- Q. CONTRACTOR TO VERIFY NO VCP SEWER PIPE RUNS UNDER NEW CONSTRUCTION.

PLAN HEX NOTES:

- 1 4" WASTE UP TO FINISH GRADE CLEANOUT.
- 2 4" WASTE UP TO WATER CLOSET.
- 3 2" VENT UP.
- 4 2" TRAPPED WASTE UP TO FLOOR DRAIN WITH TRAP GUARD INSERT.
- 5 2" WASTE UP TO LAVATORY(S).
- 6 2" WASTE UP TO WATER COOLER.
- 7 3" TRAPPED WASTE UP TO JANITOR'S BASIN
- 8 1.5" VENT UP.
- 9 2" WASTE UP TO SINK WITH PLASTER TRAP.
- 10 PRESSURE REDUCING VALVE FROM 2 PSI TO 11" W.C. FOR ASSOCIATED GAS LOADING. PROVIDE SHUT-OFF VALVE AND UNION ON INLET AND OUTLET OF PRESSURE REDUCING VALVE. TERMINATE PRESSURE RELIEF VALVE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY EQUIPMENT PRESSURES WITH HVAC UNITS SUPPLIED.
- 11 CONNECT 0.75" NATURAL GAS TO PACKAGED ROOFTOP/GROUND MOUNTED UNIT WITH SHUT-OFF VALVE 3" (MIN) DIRT LEG WITH THREADED CAP. VERIFY GAS CONNECTION LOCATION AND SIZE ON ROOFTOP/GROUND MOUNTED UNIT PRIOR TO ROUGH-IN.
- 12 0.75" HOT WATER, 0.75" COLD WATER DOWN. EXTEND 0.5" HW AND CW TO EACH LAVATORY. 0.5" CW TO EWC. 1.5" VENT UP.
- 13 1" COLD WATER DOWN TO WATER CLOSET(S). EXTEND 0.5" CW TO EACH FIXTURE
- 14 2" VENT UP TO 3" VTR
- 15 0.5" COLD AND HOT WATER DOWN, 1.5" VENT UP TO 2" VTR.
- 16 PROVIDE PLASTER TRAP EQUAL TO J.R. SMITH #871 IN CABINET UNDER SINK PER MANUFACTURER'S RECOMMENDATIONS.
- 17 0.5" HOT AND COLD WATER DOWN TO SINK, 1.50" VENT UP. ROUTE 2" WASTE FROM SINK THROUGH PLASTER TRAP.
- 18 1.5" VENT UP TO 2" VTR.
- 19 SINK, FAUCET, PLASTER TRAP, WATER PIPING AND ACCESSORIES ARE PART OF BID ALTERNATE #1. SANITARY SEWER LINE IS TO BE INCLUDED IN THE BASE BID.
- 20 2" WASTE UP TO URINAL.
- 21 0.75" CW DOWN TO FREEZE PROOF WALL HYDRANT. PROVIDE SHUT-OFF VALVE ABOVE ACCESSIBLE CEILING.
- 22 0.75" CW DOWN TO URINAL, 1.5" VENT UP.
- 23 CONNECT DRAIN LINE FROM EWC TO 2" WASTE ABOVE SLAB.



JENNIFER A. LUCE
E-2001018772
NUMBER
E-2001018772
08.16.21

PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

rtm engineering consultants
1025 ROGERS AVE
COLUMBIANA, MO 65689
PH: 417.887.0000
WWW.RTMENGINEERING.COM

M1 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM UNDERGROUND & 1ST FLOOR PLUMBING PLAN
PROJECT NUMBER: 20-606
DATE: 2/23/2021
ENGINEER OF RECORD: JAL
DRAWN BY: JMC
CHECKED BY: JAL

HVAC SYSTEM CONTROL REQUIREMENTS:

GENERAL ITEMS
 CONTRACTOR SHALL PROVIDE ALL REQUIRED CONTROL DEVICES, THERMOSTATS, CO2 SENSORS, ETC. AND LOW VOLTAGE POWER, TRANSFORMERS, CONDUIT, BOXES, CONTROL WIRING, RELAYS, CONTROLLERS, AS REQUIRED TO PROVIDE A COMPLETE AND FULLY OPERATIONAL HVAC CONTROL SYSTEM AND AS REQUIRED TO MEET THE SEQUENCE OF OPERATIONS.

CONTRACTOR SHALL FULLY COORDINATE ALL HAVE CONTROL REQUIREMENTS WITH HVAC EQUIPMENT MANUFACTURERS.

FANS:
 FEMA FAN "SF1" SHALL BE CONTROLLED BY A MANUAL ON/OFF PUSH BUTTON WITH INDICATOR LIGHT. REFER TO ELECTRICAL PLANS FOR ADDITIONAL REQUIREMENTS.

EXHAUST FANS "EF1" & "EF2" SERVING THE RESTROOMS SHALL BE ENABLED BY THEIR RESPECTIVE RESTROOM LIGHT SWITCH AND SHALL HAVE A 15 MINUTE DELAY WHEN THE LIGHT IS SHUT OFF. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

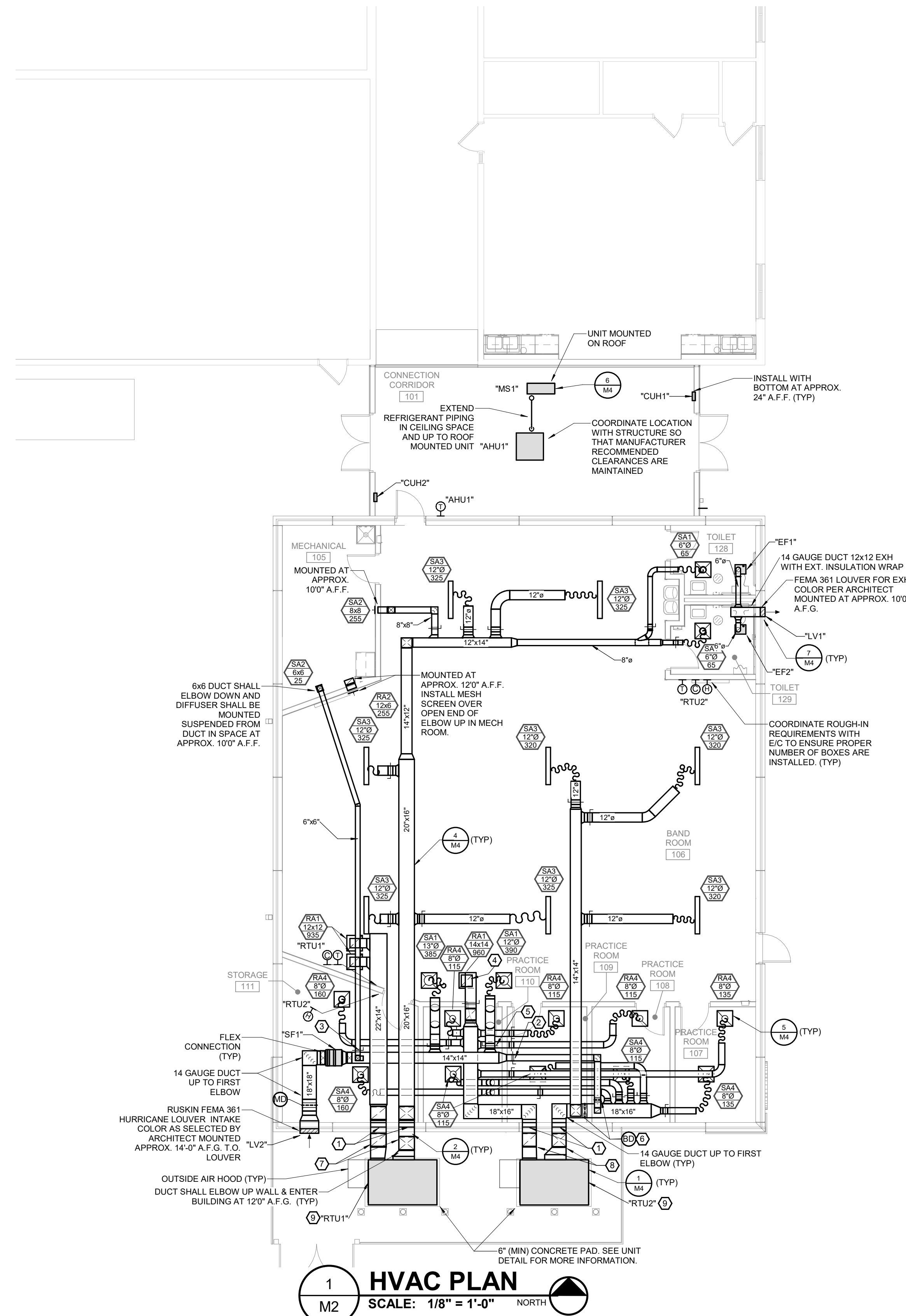
ROOF TOP UNITS ("RTU1" & "RTU2")
 UNIT SHALL BE CONTROLLED BY A LOCAL THERMOSTAT, 7-DAY PROGRAMMABLE, WITH AUTO-CHANGEOVER.

UNIT SHALL OPERATE IN AUTO MODE AND STAGE HEATING AND COOLING AS REQUIRED TO MAINTAIN SETPOINT TEMPERATURE. HEATING AND COOLING SHALL NOT OCCUR SIMULTANEOUSLY.

OUTSIDE AIR CONTROL:
 - DURING UNOCCUPIED MODE THE UNIT DAMPER SHALL BE CLOSED AND PROVIDE 0 CFM OUTSIDE AIR. (IF THE LIGHTING IN THE SPACE ARE OFF, THE SPACE SHALL BE CONSIDERED UNOCCUPIED).
 - DURING OCCUPIED MODE WHEN THE UNIT IS ENABLED THE UNIT MIN OA CFM SHALL BE PROVIDED. UPON AN ALARM OF THE CO2 SENSOR INDICATING A LEVEL GREATER THAN 1100 PPM, THE UNIT DAMPER SHALL OPEN TO MAX CFM. WHEN THE CO2 LEVEL DROPS TO 800 PPM THE UNIT SHALL SUPPLY THE MIN OA CFM AGAIN.

DEHUMIDIFICATION CONTROL UNIT WITH HOT GAS REHEAT ONLY:
 - WHEN THE SPACE RELATIVE HUMIDITY RISES ABOVE 55% RH THE UNIT SHALL ENABLE FULL COOLING AND MODULATE TO REHEAT SENSIBLE TO MAINTAIN SPACE SETPOINT TEMPERATURE. WHEN THE RELATIVE HUMIDITY DROPS BELOW 50% THE DEHUMIDIFICATION CYCLE SHALL BE DISABLED.

EMERGENCY VENTILATION SYSTEM:
 THE MOTORIZED DAMPER ON THE INTAKE LOUVER FOR "SF1" SHALL BE FAIL OPEN TYPE AND SHALL BE POWERED CLOSED DURING NORMAL OPERATION. WHEN "SF1" IS RUNNING THE INTAKE LOUVER SHALL BE OPEN (FAIL OPEN WITH POWER FAILURE).

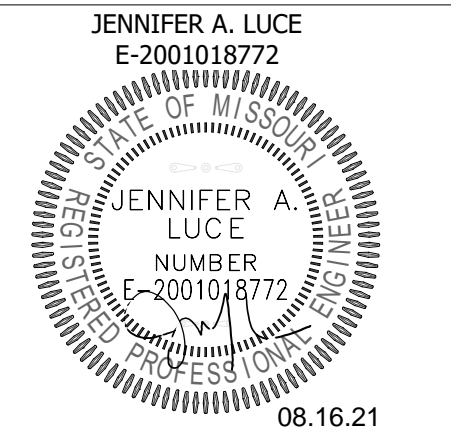


GENERAL HVAC NOTES:

- A. FOR ALL MECHANICAL QUESTIONS ON THIS PROJECT, CONTACT RTM ENGINEERING CONSULTANTS AT (417) 881-0020. CONTACT: ELIZABETH HARGRAVE.
- B. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
- C. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
- D. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION BOXES, ETC. LOCATED IN CONCEALED SPACES. PROVIDE ACCESS DOOR FOR ALL FIRE DAMPERS AS REQUIRED FOR SERVICE.
- E. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- F. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
- G. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
- H. BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- I. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED ELBOWS.
- J. THERMOSTATS AND CONTROL WIRING SHALL BE SUPPLIED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THERMOSTATS.
- K. NEW PIPING AND DUCTWORK SHALL NOT BE ROUTED OVER EXISTING AND NEW ELECTRICAL PANELS.
- L. ALL ROOF WORK SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REQUIREMENTS SO THAT ROOF WARRANTY IS NOT VOIDED.
- M. ALL EQUIPMENT SHALL BE INSTALLED TO ALLOW FULL MAINTENANCE ACCESS PER MANUFACTURER'S RECOMMENDATIONS.
- N. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSITIONS TO ALL EQUIPMENT OPENING SIZES.
- O. MECHANICAL CONTRACTOR SHALL REMOVE AND REPLACE CEILING TILES IN ALL EXISTING AREAS WITH NEW DUCT AND IS RESPONSIBLE FOR REPLACING TILES IF DAMAGED DURING CONSTRUCTION.
- P. REFER TO ARCHITECTURAL PLANS FOR ANY ADDITIONAL CONSTRUCTION PHASING REQUIREMENTS.
- Q. REQUIRED PROTECTION FOR ALL WALL AND ROOF PENETRATIONS: PROVIDE 2"x2"x3/8" ANGLE IRON FRAME WITH 0.5" WELDED REBAR IN A 2"x2" PATTERN ACROSS THE WALL OPENING. EXTEND FULL SIZED 14 GAUGE DUCT THRU WALL WITH FLEXIBLE CONNECTION. 14 GAUGE DUCT SHALL EXTEND TO AND INCLUDE FIRST ELBOW.
- R. ALL DUCTS SHALL BE INSTALLED ABOVE LAY-IN CEILINGS. OFFSET AS NEEDED FOR CEILING ELEVATION CHANGES.
- S. ALL CONDENSATE DRAINS ARE SHOWN ON PLUMBING PLANS. COORDINATE INSTALLATION WITH PLUMBER.

PLAN HEX NOTES:

1. PROVIDE 2"x2"x3/8" ANGLE IRON FRAME WITH THE 0.5" WELDED REBAR IN A 2"x2" ACROSS THE WALL OPENING. EXTEND FULL SIZED 14 GAUGE DUCT THRU THE WALL WITH FLEXIBLE CONNECTION. 14 GAUGE DUCT SHALL EXTEND TO AND INCLUDE FIRST INTERIOR ELBOW.
2. BALANCE DAMPER TO 120 CFM OA. EXTEND 8X6 DUCT TO RETURN BRANCH AND ELBOW DOWN AND CONNECT TO THE TOP AS SHOWN.
3. BALANCE DAMPER TO 25 CFM OA. EXTEND 6X6 DUCT AS SHOWN.
4. EXTEND TAP FROM BOTTOM OF DUCT AND CONNECT TO RETURN DIFFUSER.
5. TAP WITH BALANCE DAMPER.
6. COUNTER-BALANCED BACKDRAFT DAMPER
7. DUCT SHALL BE 20X20 FROM UNIT CONNECTION THRU 14 GAUGE ELBOW INSIDE BUILDING. DUCT MAY THEN REDUCE TO 20X16 AS SHOWN.
8. DUCT SHALL BE 18X18 FROM UNIT CONNECTION THRU 14 GAUGE ELBOW INSIDE BUILDING. DUCT MAY THEN REDUCE TO 18X16 AS SHOWN.
9. MAINTAIN A MINIMUM OF 30" BETWEEN UNIT AND BUILDING & A MINIMUM OF 50" BETWEEN UNITS PER MANUFACTURER'S RECOMMENDED INSTALLATION CLEARANCES.



MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

PARAGON ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com



M2 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM FIRST FLOOR HVAC PLAN

PROJECT NUMBER: 20-606
 DATE: 2/23/2021
 ENGINEER OF RECORD: JAL
 DRAWN BY: JMC
 CHECKED BY: EDH

PIPE MATERIAL SCHEDULE

SYSTEM	PIPING				FITTINGS				MAX. WORKING		FIELD TEST	
	SIZE	TYPE	SCHEDULE	GRD.	ASTM	MATERIAL	MATERIAL	TYPE	PRESS. (PSI)	TEMP. (°F)	PRESS. (PSI)	TIME
DOMESTIC WATER ABOVE GRADE	ALL	PEX	SDR9	-	F876	PEX	BRASS	PP	100	40-180	150	1 HR
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	-	-	B88	CP	CP	DRIS	10 FT	140-210	10 FT	1 HR
WASTE & VENT BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DRISW	10 FT	50-180	10 FT	1 HR
WASTE & VENT ABOVE GRADE (DUCTED RETURN)	ALL	DWV	40	-	2665	PVC	PVC	DRISW	10 FT	50-180	10 FT	1 HR
REFRIGERANT PIPING	ALL	ACR	-	-	B280	CP	CP	S	150	40-140	200	4 HR
CONDENSATE DRAIN ABOVE GRADE	ALL	M	-	-	B88	CP	CP	DRIS	10 FT	40-70	10 FT	1 HR
NATURAL GAS ABOVE GRADE	0.5" - 2.5"	CW	40	A	A53	CSBLK	MI	THRD	1	-	100	1 HR
NATURAL GAS BELOW GRADE	0.5" - 2"	PE	SDR11	3408	D2513	PE	PE	HF	80	-	100	1 HR

PUMP SCHEDULE

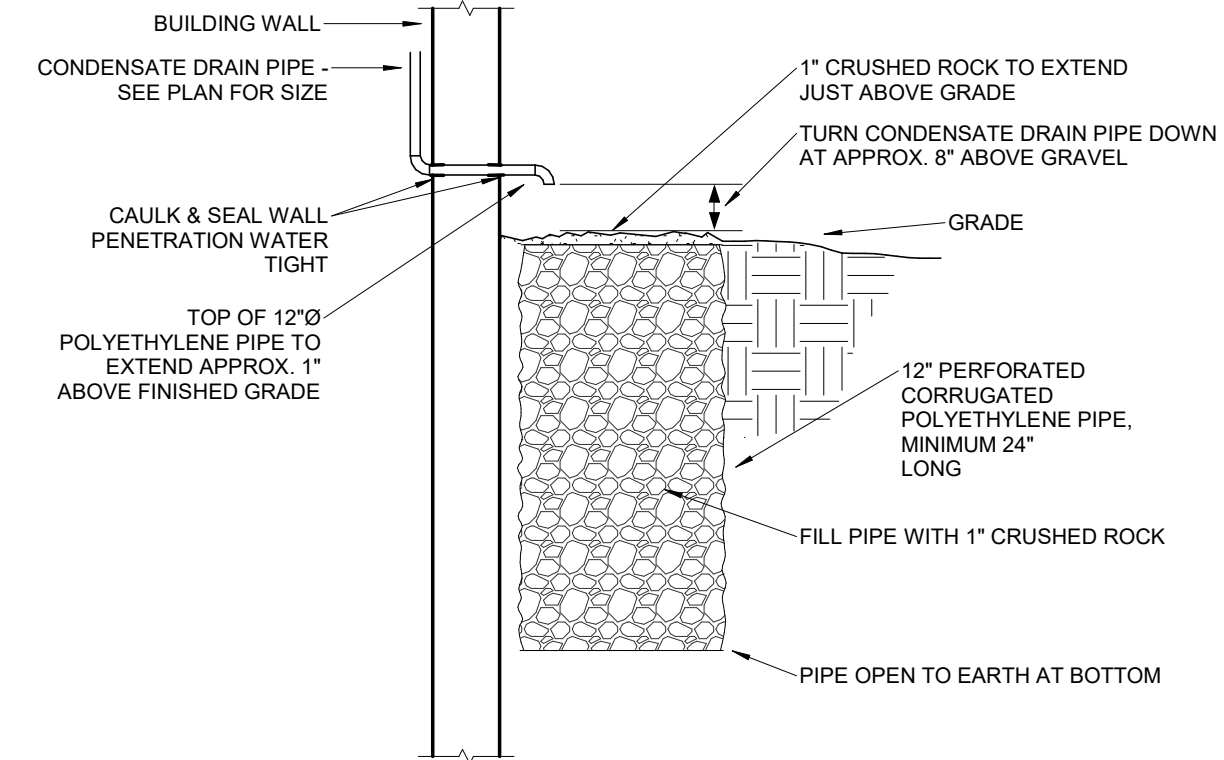
PLAN MARK	MANUFACTURER	SERIES	SIZE	INLET (IN)	FLOW (GPM)	TOTAL HEAD (FT HD)	NPSH (FT HD)	TYPE	ELECTRICAL DATA				BODY CONSTRUCTION	FLUID PUMPED	FLUID TEMPERATURE (°F)	NOTES	
									WORK CLASS (PSI)	MOTOR (HP)	RPM	VOLTAGE					PHASE
RPT	BELL & GOSSETT	NBF	33	0.75"	2	12	0	IL	125	0.06	3300	120	1	AB	DHW	120	AB

PLUMBING FIXTURE SCHEDULE

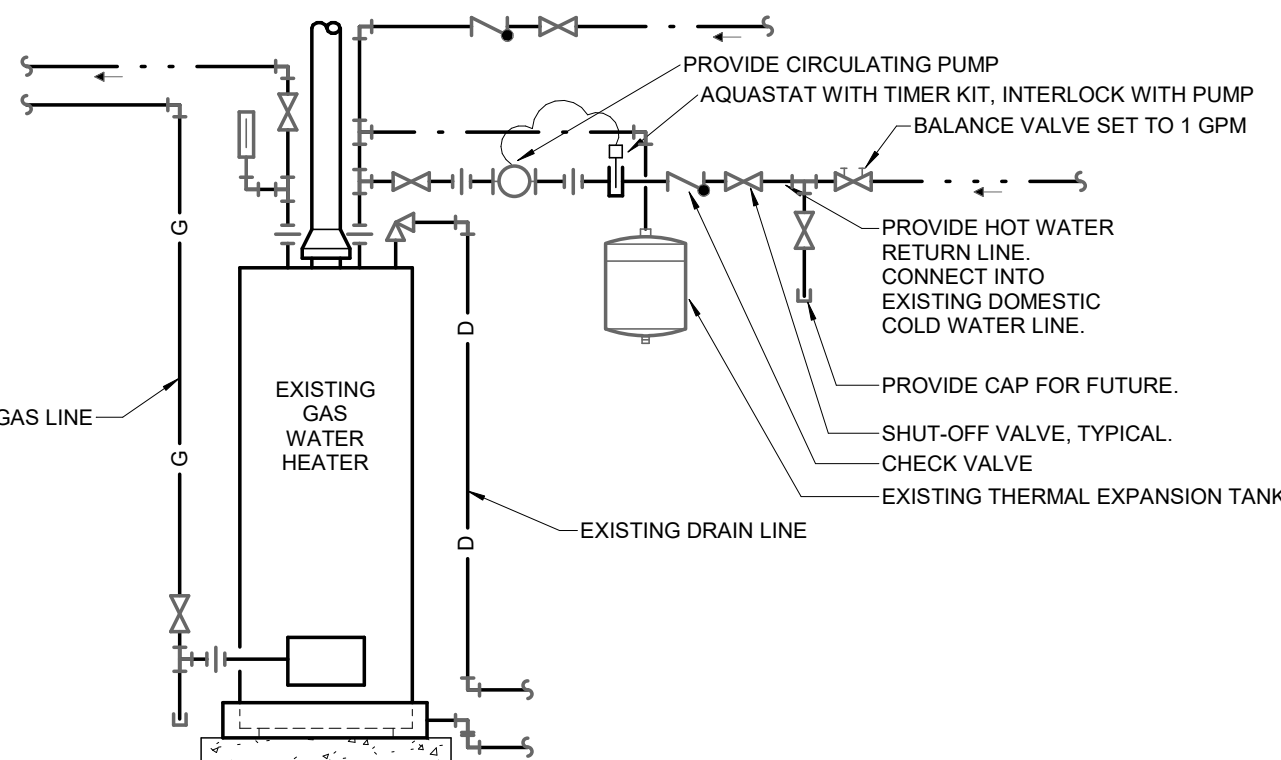
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTION SIZES				NOTES
					CW (IN)	HW (IN)	W (IN)	V (IN)	
1	21" x 20" WALL HUNG LAVATORY	AMERICAN STANDARD	DECORUM - 9134004EC	FAUCET: ZURN #Z81104-XL, 4" CENTERSET, VANDAL-RESISTANT COLOR CODED METAL WRIST BLADE HANDLES, CONCEALED ARM CARRIER. PROVIDE ASSE 1070 MIXING VALVE SET TO 105°F IF NOT INTEGRAL TO FAUCET. GRID DRAIN, TRAP, STOPS, FLEXIBLE HOT AND COLD WATER LINES, VITREOUS CHINA SHROUD/KNEE GUARD #0059 020EC.	0.5	0.5	1.5	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED.
2	FLOOR MOUNTED, FLUSH TANK, BOTTOM OUTLET WATER CLOSET	AMERICAN STANDARD	CADET - 2467 016	CLOSE-COUPLED, 1.6 GALLONS PER FLUSH, CHURCH #290T, OPEN FRONT WHITE SEAT WITH COVER	0.5	-	4	2	FIXTURE ASSEMBLY MUST BE APPROVED AND INSTALLED PER ADA. 16.5" RIM HEIGHT. PROVIDE ALTERNATIVE TANK AS NECESSARY FOR TRIP LEVER TO BE INSTALLED ON OPPOSITE SIDE WALL GRAB BAR.
3	DOUBLE BOWL, 18 GAUGE, SELF RIM SINK	JUST	DLXD-2243-A-GR	FAUCET: ZURN #Z8131C4-XL, WIDESPREAD GOOSENECK FAUCET, TRAP, STOPS, AND FLEXIBLE BRAIDED HOT AND COLD WATER LINES. GRID DRAIN, SAFETY BUBBLER, TRAP, CORD SET	0.5	0.5	2	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED.
4	WALL HUNG BIVALENTE BARRIER FREE ELECTRIC WATER COOLER	ELKAY	EZ2SL6WSLK	FIXTURE IS ADA COMPLIANT. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT OF EACH COOLER. CAPACITY OF 8.0 GPH BASED UPON 80 DEGREE F. ROOM TEMPERATURE AND 50 DEGREE F. DRINKING WATER TEMPERATURE. BOTTLE FILLING STATION INSTALLED ON LOWER COOLER.	0.5	-	2	1.5	MOP BASIN WITH CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS.
5	FLOOR MOUNT, 24X24X10, JANITOR'S BASIN	FIAT	MSB-2424	FAUCET: FIAT MODEL 830AA, 832-AA HOSE AND HOSE BRACKET, 888-CC MOP HANGER, SS WALL PROTECTOR, QDC-35N QUICK DRAIN CONNECTOR, 3" GRID DRAIN. MOLDED STONE BASIN.	0.5	0.5	3	1.5	PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS
6	FREEZE LESS WALL HYDRANT	WOODFORD	MODEL 67	LOOSE TEE HANDLE, MODEL 50H DOUBLE CHECK BACKFLOW PREVENTER, CHROME EXTERIOR FINISH.	0.75	-	-	-	REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA. INSTALL TRIP LEVER OPPOSITE SIDE WALL GRAB BAR.
7	ADA WALL MOUNTED URINAL	AMERICAN STANDARD	WASHBROOK - 6590 001	FLUSH VALVE: ZURN MODEL ZER003-CPM-VS1, 1.0 GPF, URINAL CARRIER, FULL LENGTH WALL.	1	-	2	1.5	REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA. INSTALL TRIP LEVER OPPOSITE SIDE WALL GRAB BAR.

DRAINAGE PIPE SPECIALTY SCHEDULE

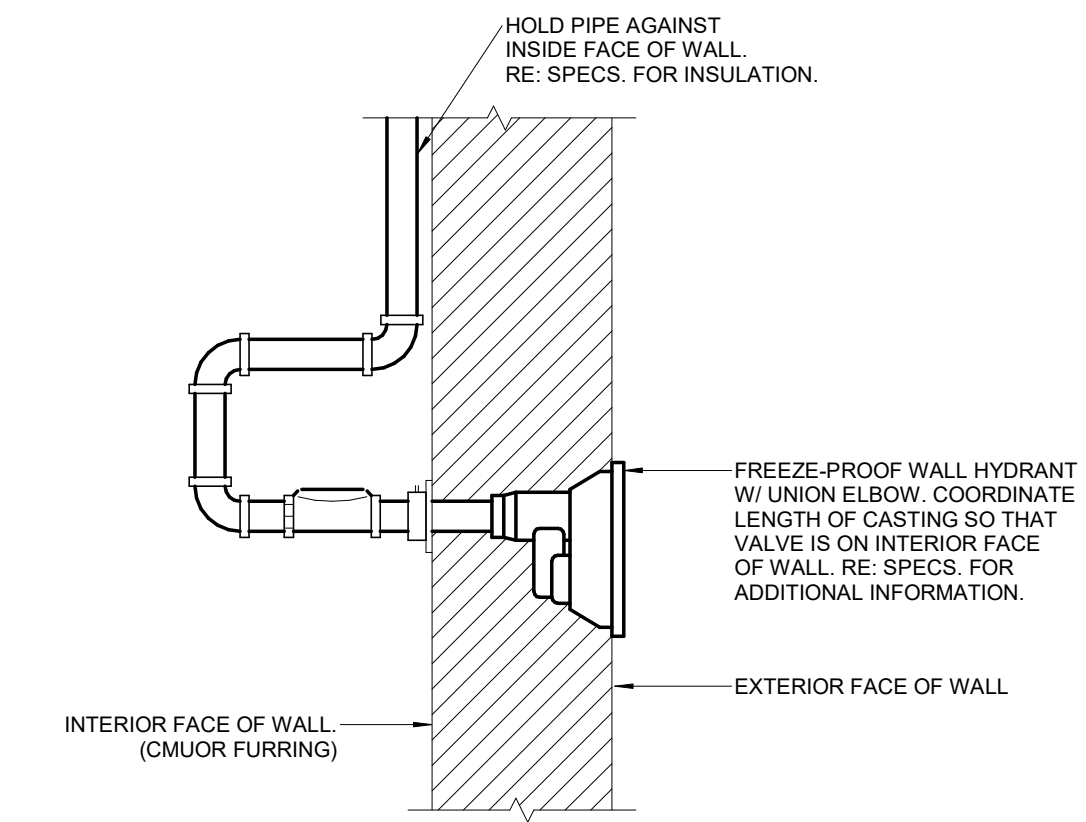
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	NOTES
A	7" ROUND FLOOR DRAIN	J.R. SMITH	2010-A	NICKEL BRONZE STRAINER, DEEP SEAL TRAP, SURE SEAL WATERLESS TRAP PRIMER	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.
B	FINISHED GRADE CLEANOUT	J.R. SMITH	4223-U	EXTRA HEAVY DUTY CAST IRON VANDAL PROOF TOP	IF NOT LOCATED IN CONCRETE, PROVIDE 18"X18"X7" CONCRETE PAD AROUND CLEANOUT WITH #3 REBAR AND CHAMFERED EDGES. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.



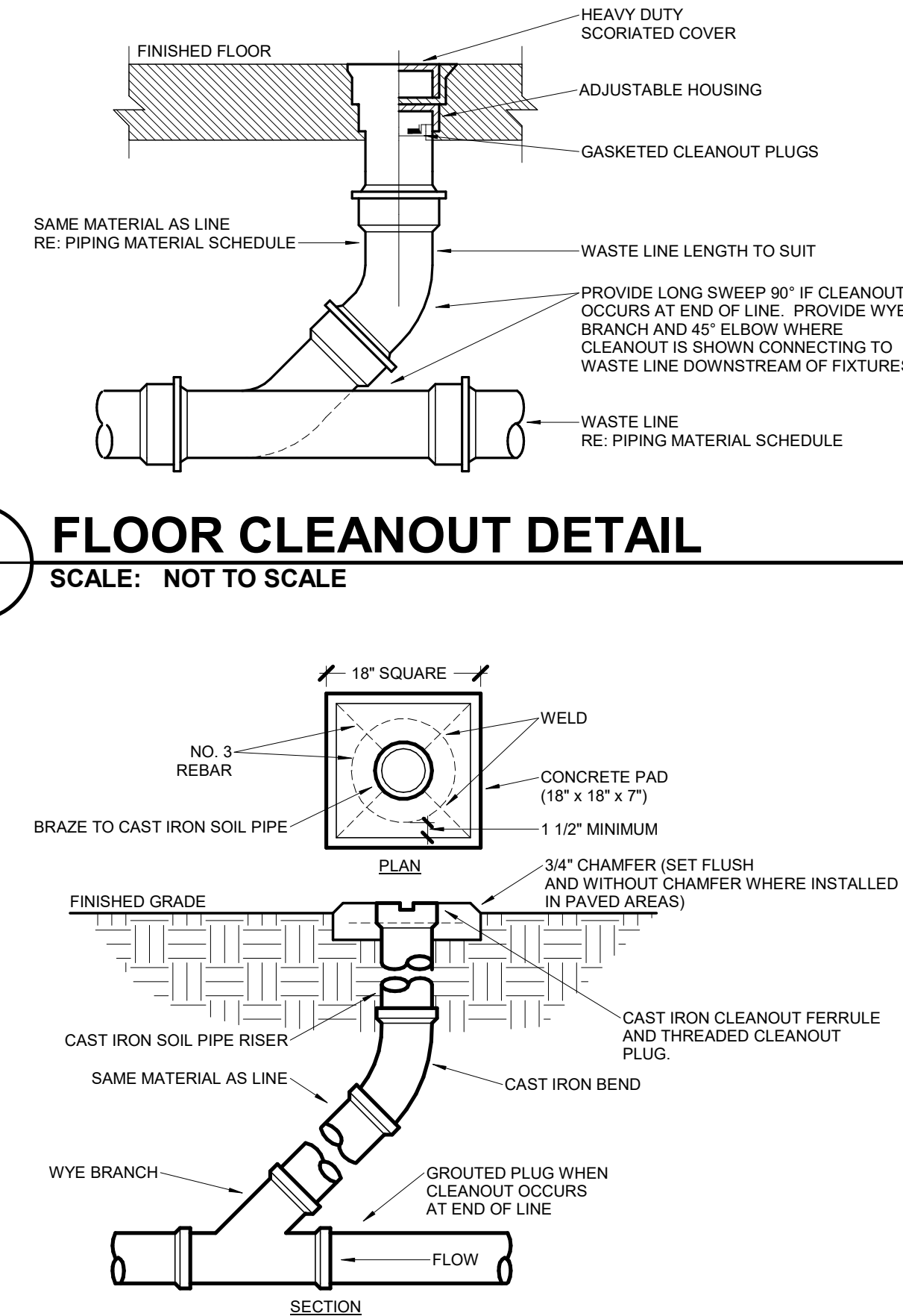
8 CONDENSATE DRYWELL DETAIL
M3 SCALE: NOT TO SCALE



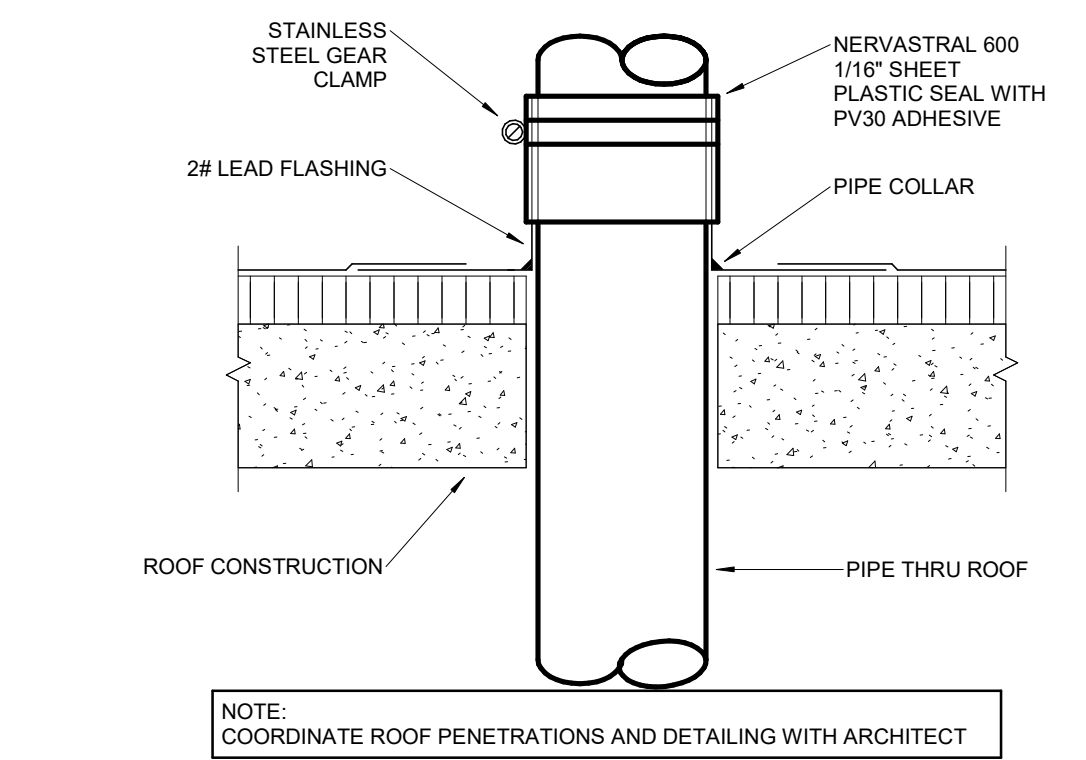
7 WATER HEATER DETAIL
M3 SCALE: NOT TO SCALE



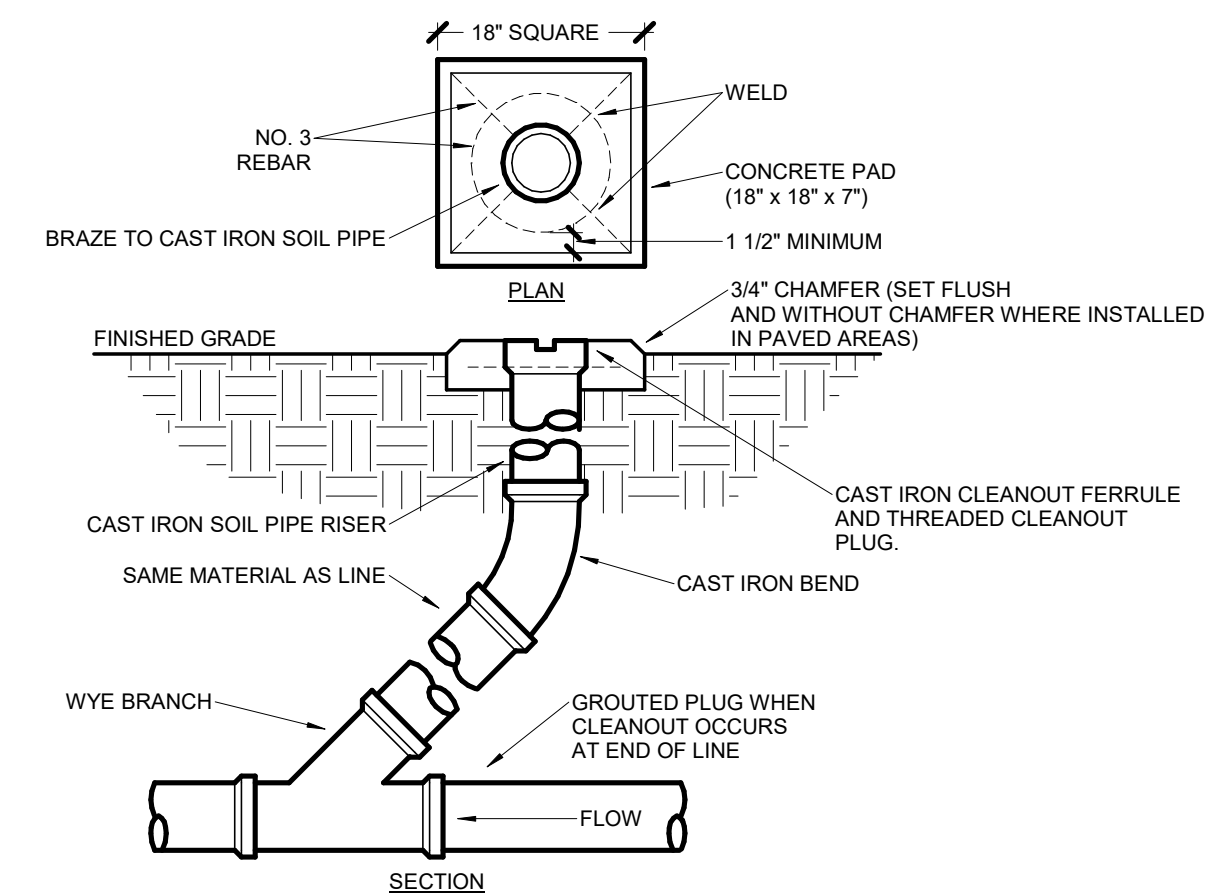
6 WALL HYDRANT DETAIL
M3 SCALE: NOT TO SCALE



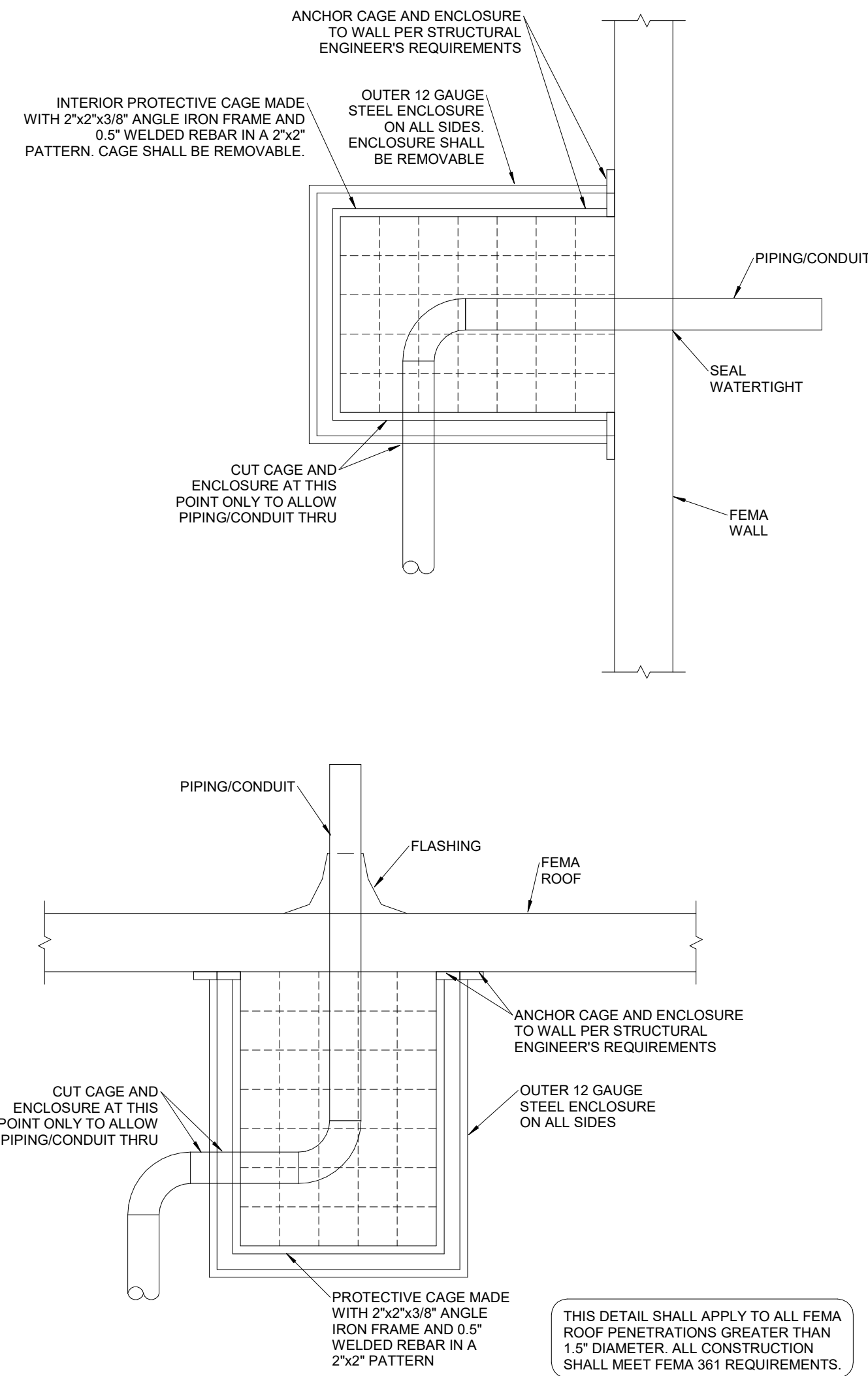
4 FLOOR CLEANOUT DETAIL
M3 SCALE: NOT TO SCALE



5 VENT THRU ROOF DETAIL
M3 SCALE: NOT TO SCALE



3 FINISH GRADE CLEANOUT DETAIL
M3 SCALE: NOT TO SCALE



2 FEMA PENETRATIONS
M3 SCALE: NOT TO SCALE

SCHEDULE LEGEND

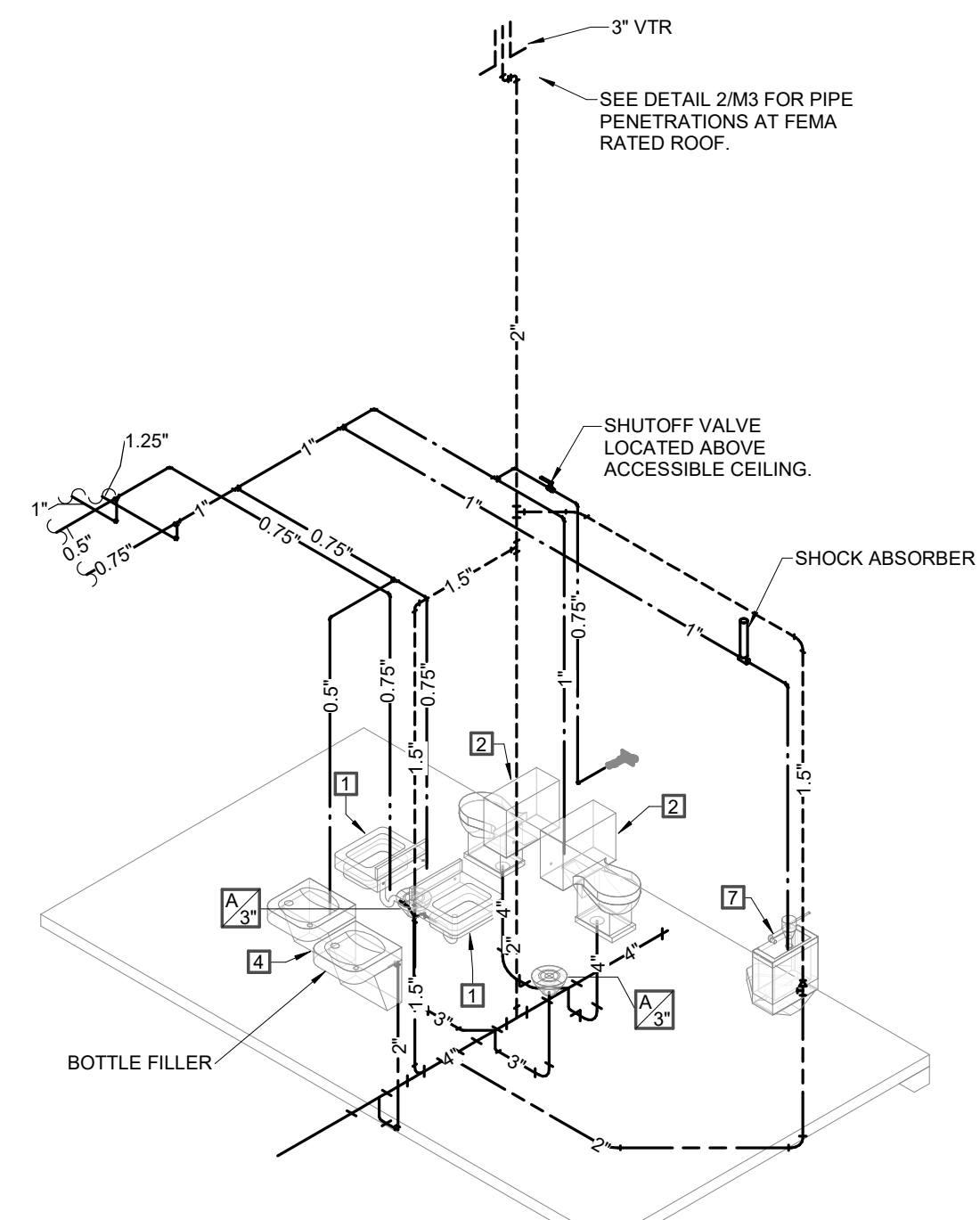
ABBREVIATED SCHEDULE HEADINGS
EFFICIENCY: MINIMUM EFFICIENCY OF WATER HEATER
GPH: GALLONS PER HOUR
HP: HORSEPOWER
LOAD: NOMINAL CONNECTED GAS LOAD TO UNIT, USED TO SIZE GAS PIPING
NPSH: NET POSITIVE SECTION HEAD
OUTPUT: MINIMUM REQUIRED OUTPUT TO MEET GPH RISE AS SCHEDULED
RPM: REVOLUTIONS PER MINUTE

PIPE MATERIAL SCHEDULE
BLK: BLACK
BS: BELL & SPIGOT
CF: CRIMPED FITTING
CI: CAST IRON
CP: COPPER
CS: CARBON STEEL
CTD: PIPE LINE SERVICE COMPANY X-TRU-COAT HIGH DENSITY POLYETHYLENE COATING EXTRUDED OVER PIPE
CW: CONTINUOUS WELD
DI: DUCTILE IRON
DR: DRAINAGE FITTING
GLV: GALVANIZED
HF: HEAT FUSED
LC: LEAD CAULKING
MI: MALLEABLE IRON
MJ: MECHANICAL JOINT
NS: NEOPRENE GASKET
NH: NO-HUB

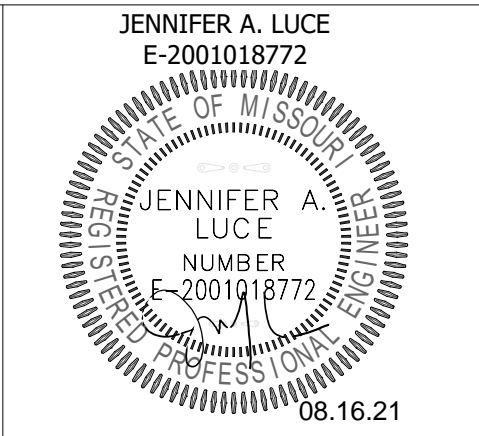
SCHEDULE LEGEND

PE: POLYETHYLENE
PP: PRO PRESS
PVC: POLYVINYL CHLORIDE
S: BRAZED JOINT - SILVER BRAZING ALLOY
SJ: SOLDER JOINT - 95-5 TIN-ANTIMONY
SL: SEAMLESS STEEL
SS: STANDARD STRENGTH - SERVICE WEIGHT
SW: SOLVENT WELD
THRD: THREADED
TS: TY-SEAL
VCP: VITRIFIED CLAY PIPE
WELD: WELDED
XH: EXTRA HEAVY

PUMP SCHEDULE
AB: ALL BRONZE
AI: ALL IRON
BF: BRONZE FITTED
BMCES: BASE MOUNTED CLOSED COUPLED END SUCTION
BMES: BASE MOUNTED END SUCTION
BMHSC: BASE MOUNTED HORIZONTAL SPLIT CASE
BMVSC: BASE MOUNTED VERTICAL SPLIT CASE
C: CONDENSER WATER
CH: CHILLED HOT WATER
CW: CHILLED WATER
DCW: DOMESTIC COLD WATER
DHW: DOMESTIC HOT WATER
HW: HEATING HOT WATER
IL: IN-LINE



1 PLUMBING ISOMETRIC
M3 SCALE: NOT TO SCALE



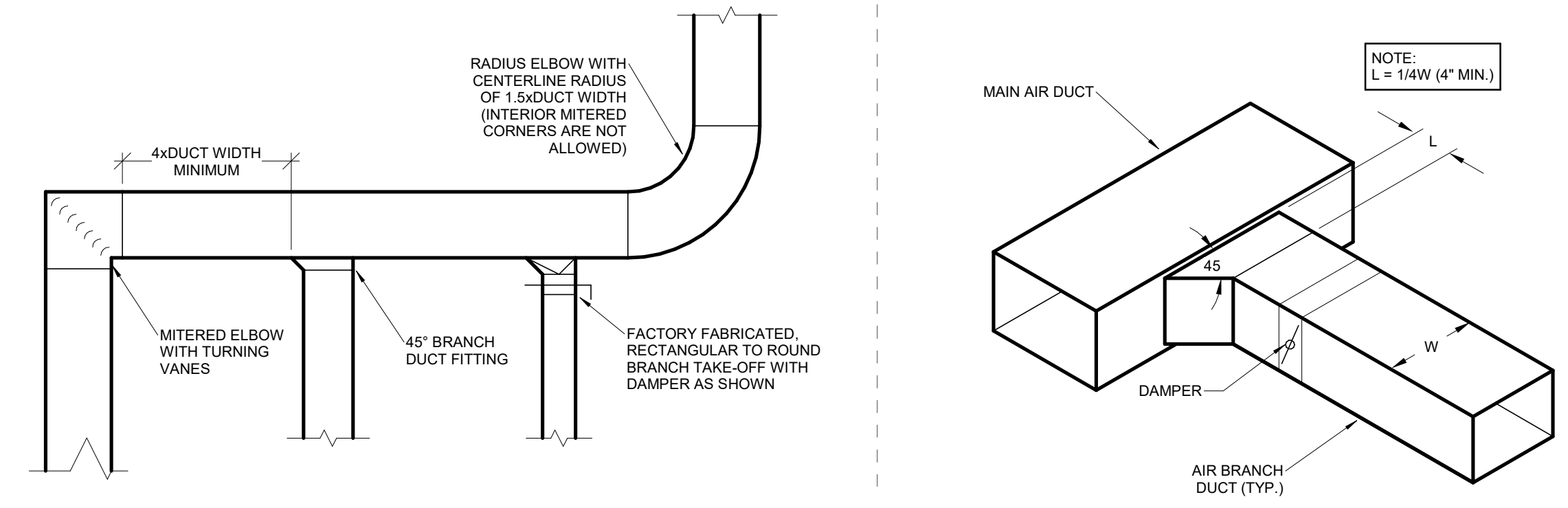
PARAGON ARCHITECTURE

PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

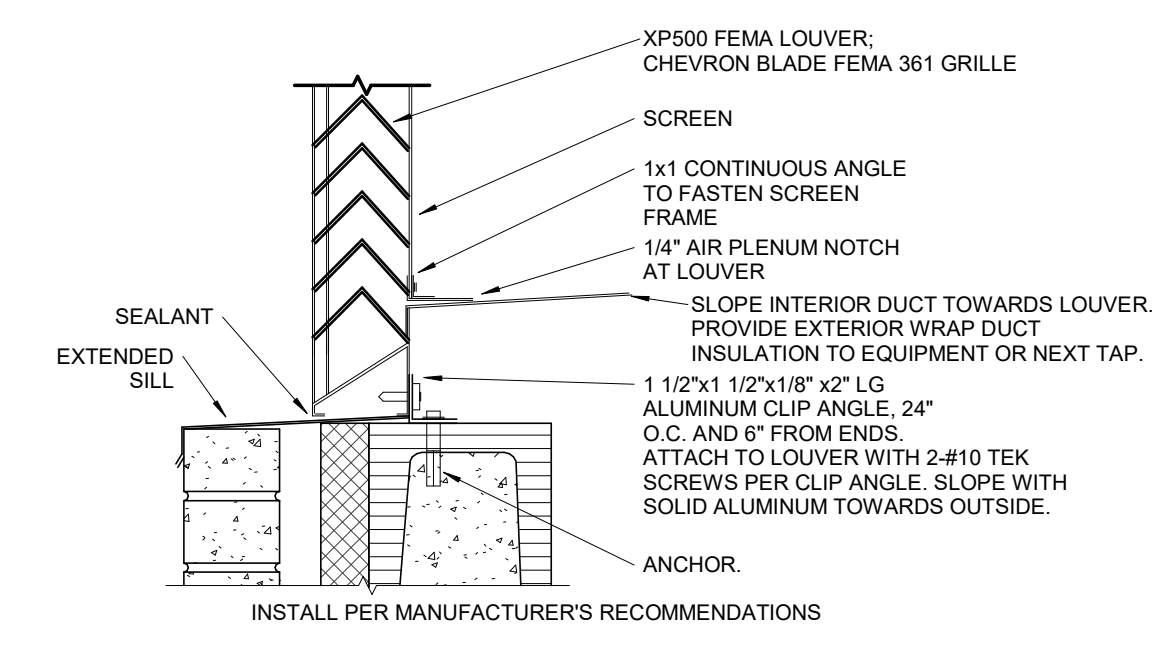
MISSOURI STATE CERTIFICATE OF AUTHORITY #A-20160000415
engineering consultants
1025 Rogers Ave
Cabool, MO 65689
PH: 417.885.0002
www.paragonarchitecture.com
CDA # 00000000000000000000000000000000



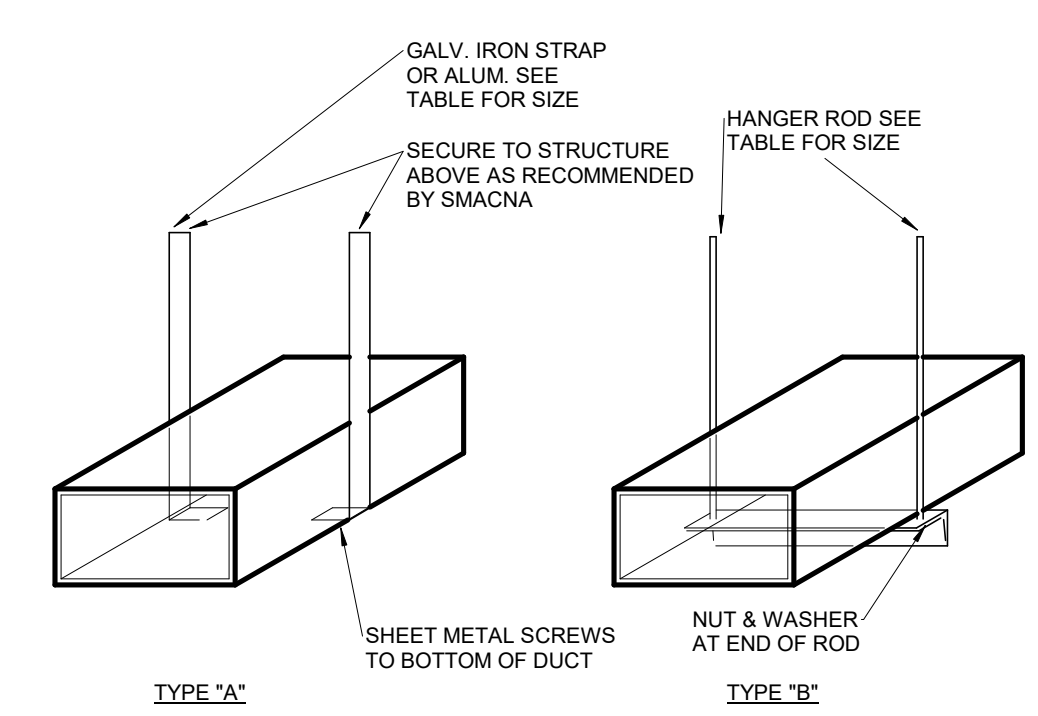
M3 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM PLUMBING DETAILS
PROJECT NUMBER: 20-606
DATE: 2/23/2021
ENGINEER OF RECORD: JAL
DRAWN BY: JMC
CHECKED BY: JAL



4 DUCTWORK CONSTRUCTION DETAIL
SCALE: NOT TO SCALE



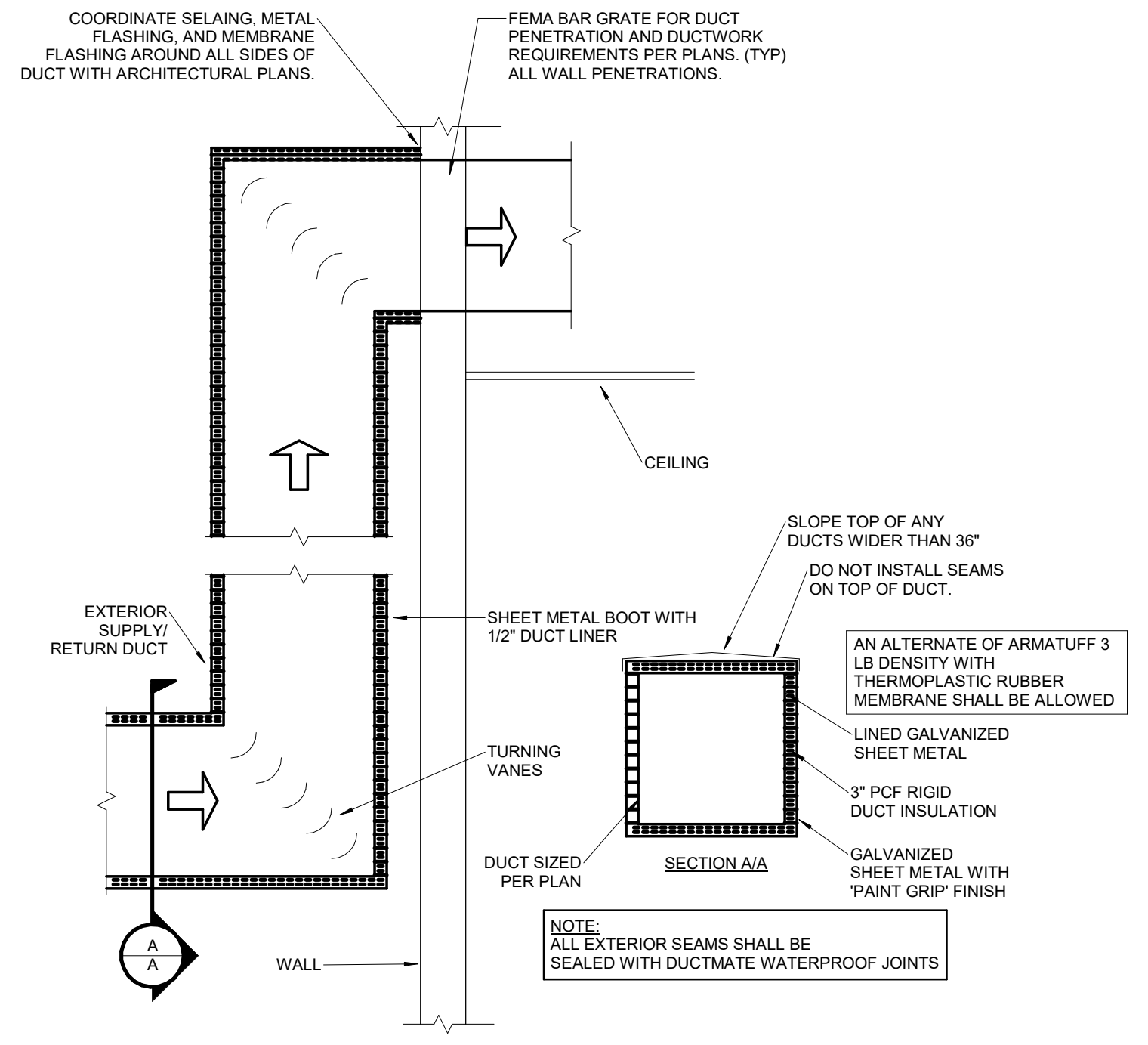
7 FEMA LOUVER DETAIL
SCALE: NOT TO SCALE



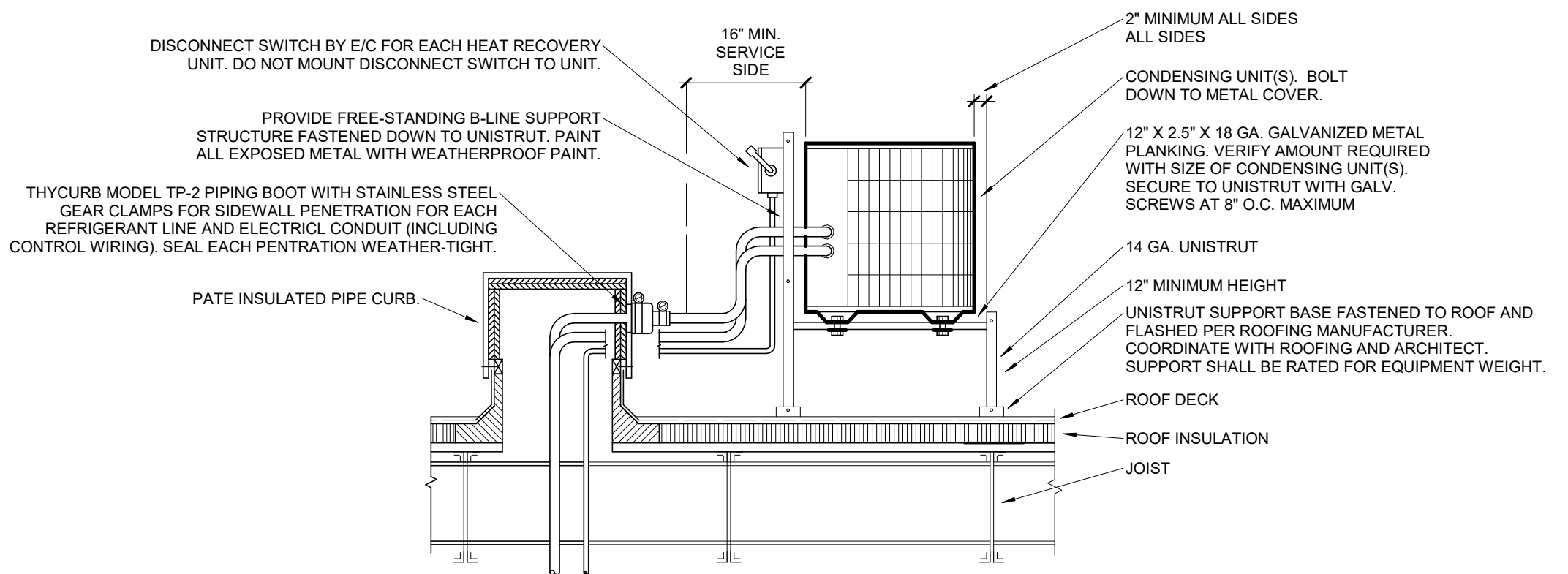
DUCT HANGER SCHEDULE					
DUCT SIZE (INCH)	TYPE OF HANGER	HANGER SPACING (FT)	STRAP SIZE	ROD SIZE (INCH)	ANGLE FOR BRACING
UP TO 12	A	8'-0"	1"x16GA	N.A.	N.A.
13 TO 18	A	8'-0"	1"x16GA	N.A.	N.A.
19 TO 30	A/B	8'-0"	1"x16GA	1/4"	1-1/2"x1-1/2"x1/8"
31 TO 42	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
43 TO 54	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
55 TO 60	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
61 TO 84	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x3/16"
85 TO 96	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x3/16"
OVER 96	B	8'-0"	N.A.	3/8"	2"x2"x1/4"

NOTES:
1. FOR SEVERAL DUCTS ON ONE HANGER, TYPE "B" MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX WIDTH OF DUCT SCHEDULE.
2. ON TYPE "A" HANGER, PROVIDE 3 HANGERS AT EACH TAKE-OFF OR BRANCH.

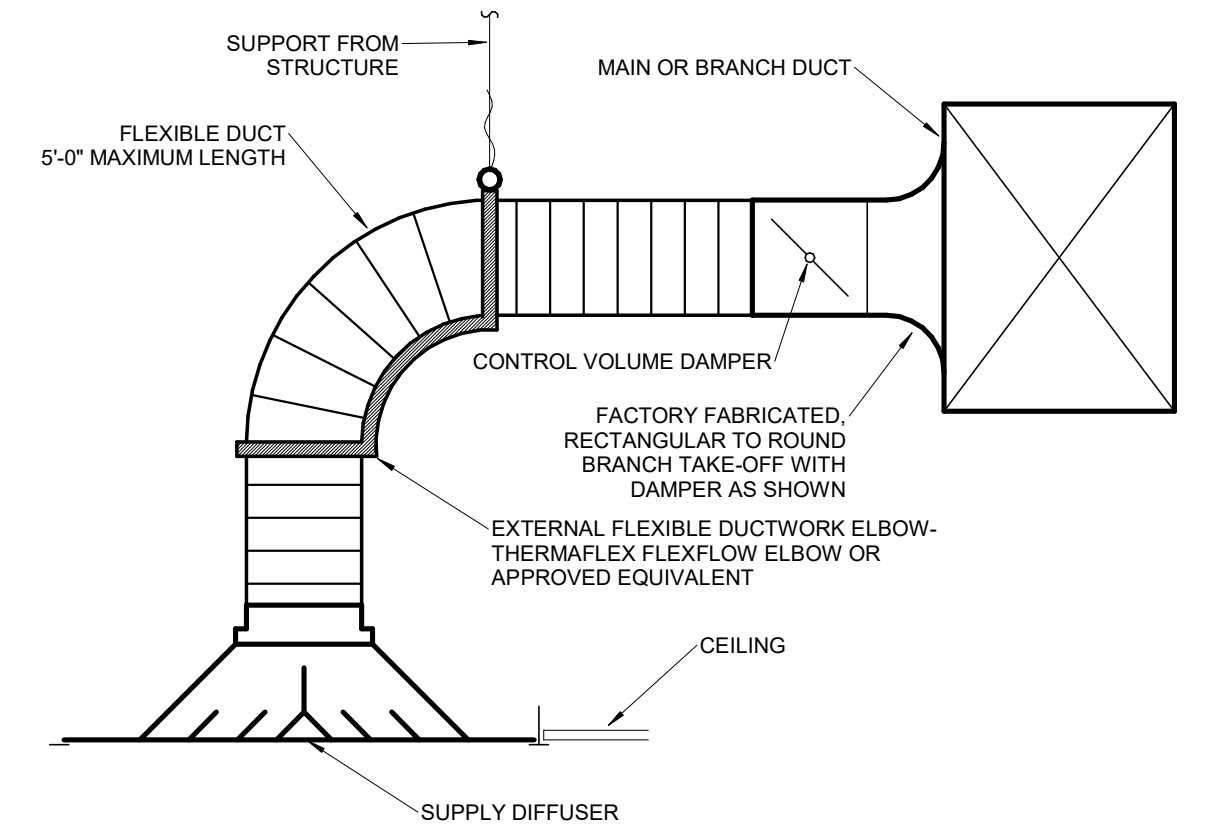
3 DUCT SUPPORT DETAIL
SCALE: NOT TO SCALE



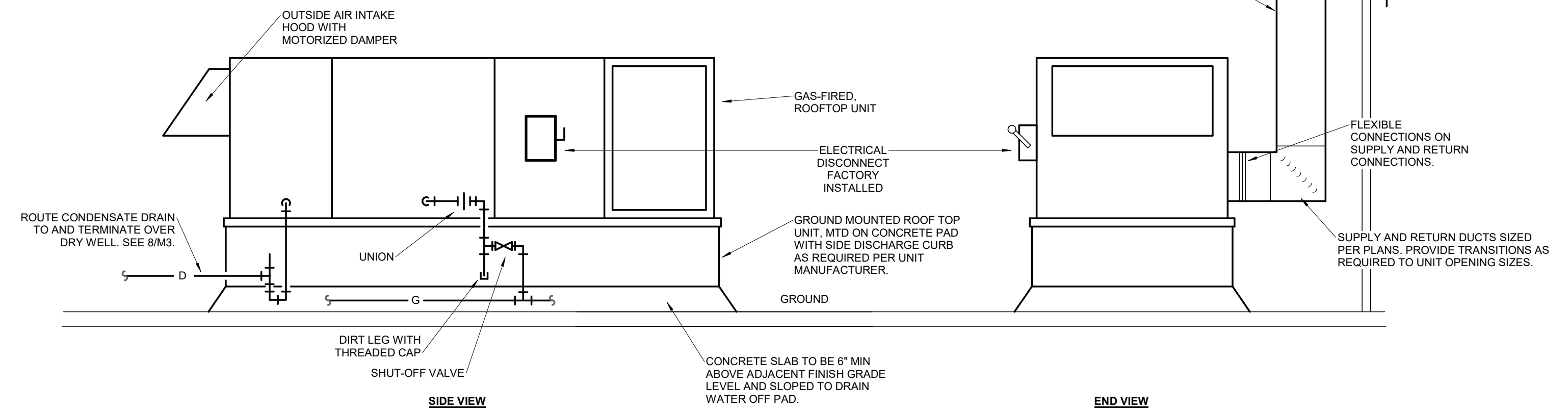
2 EXTERIOR SUPPLY AND RETURN AIR DUCT DETAIL
SCALE: NOT TO SCALE



6 ROOF MOUNTED CONDENSING UNIT DETAIL
SCALE: NOT TO SCALE



5 CEILING DIFFUSER DETAIL
SCALE: NOT TO SCALE



NOTE:
IF APPLICABLE, A FIELD INSTALLED DISCONNECT SHALL BE MOUNTED SO THAT IT DOES NOT VOID ANY WARRANTIES ON THE UNIT SERVED. UNIT SHALL BE INSTALLED ON CONCRETE PAD ON UNIT RAILS, OR WITH SIDE DISCHARGE CURB AS REQUIRED BY THE MANUFACTURER. MAINTAIN ALL MINIMUM CLEARANCES AS REQUIRED PER THE MANUFACTURER'S INSTALLATION INSTRUCTION.

1 HORIZONTAL DISCHARGE ROOFTOP UNIT DETAIL
SCALE: NOT TO SCALE

PACKAGED ROOFTOP UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	OUTDOOR AIR FLOW			COOLING CAPACITY				GAS HEATING			ELECTRICAL DATA					NOTES		
				EST. ESP (IN WG)	MAX (CFM)	MIN (CFM)	E.A.T. DB (°F)	E.A.T. WB (°F)	MIN. SHC (BTU/H)	MIN. THC (BTU/H)	MIN. SEER	AMBIENT TEMPERATURE (°F)	GAS LOAD (BTU/H)	OUTPUT (BTU/H)	EFFICIENCY (%)	VOLTAGE	PHASE	FLA		MCA	MOCP (A)
RTU1	YORK	ZJ061	2,000	0.75	355	155	79	85	45,200	89,800	14.5	95	120,000	96,000	80	208	3	20	25	35	F.R410A.T.2SH.MOAE.CR.DS.CO2.SD.GM
RTU2	YORK	ZJ049	1,600	0.75	390	280	80	84	37,500	49,200	14.5	95	120,000	96,000	80	208	3	20	25	35	F.R410A.T.2SH.MOAE.CR.DS.CO2.SD.GM.HGR.H

GRILLE, REGISTER AND DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	APPLICATION	FINISH	FRAME TYPE	VOLUME DAMPER	MAXIMUM NC	MINIMUM THROW (FT)	MAXIMUM THROW (FT)	MAXIMUM ΔP (IN WG)	NOTES
RA2	TITUS	300RS	RETURN	BY ARCH	SURFACE	No	30	0	0	0.10	WALL GRILLE - DOUBLE DEFLECTION - STEEL
RA4	TITUS	PAR-24 x 24	RETURN	WHITE	GRID	No	30	0	0	0.10	24X24 SQUARE PERFORATED FACE WITH ROUND DUCT CONNECTION
SA1	TITUS	TDCA-24 x 24	SUPPLY	WHITE	GRID	Yes	30	8	15	0.10	24X24 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION
SA2	TITUS	300-RS	SUPPLY	BY ARCH	SURFACE	Yes	30	8	15	0.10	WALL GRILLE - DOUBLE DEFLECTION - STEEL
SA3	TITUS	FL-15	SUPPLY	WHITE	SURFACE	Yes	30	12	25	0.10	48" CONTINUOUS FLOWBAR LINEAR SLOT DIFFUSER W/ 2 SLOT & INSULATED PLENUM BOX
SA4	ACCUTHERM	TF-D	SUPPLY	WHITE	GRID	Yes	30	8	12	0.10	24X24 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION, WITH MANUALLY ADJUSTABLE SETPOINTS IN DIFFUSER

DUCTLESS SPLIT SYSTEM CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	AMBIENT TEMPERATURE (°F)	COOLING MIN. SEER	ELECTRICAL DATA					NOTES
					VOLTAGE	PHASE	FLA	MCA	MOCP	
MS1	mitsubishi	PUZ-A18NH46	105	14.2	208	1	10	13	20	EQ.HG.MS

INDOOR CASSETTE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	EST. ESP (IN WG)	COOLING DATA			HEATING DATA			ELECTRICAL DATA					NOTES
					E.A.T. DB (°F)	E.A.T. WB (°F)	MIN. SHC (BTU/H)	MIN. THC (BTU/H)	E.A.T. (°F)	MIN. THC (BTU/H)	VOLTAGE	PHASE	FLA	MCA	MOCP (A)	
AHU1	MITSUBISHI	PLA-A-A18BA6	500	0	80	67	15	18	70	19	208	1	1	1	15	EQ.T.CP.TH

ELECTRIC CABINET UNIT HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	HEATING ELEMENT (WATTS)	ELECTRICAL DATA					NOTES
					VOLTAGE	PHASE	FLA	MCA	MOCP (A)	
CUH1	QMARK	CWH1208DSF	65	2,000	208	1	10	15	15	2MF.CR.FC.T.TC.DS
CUH2	QMARK	CWH1208DSF	65	2,000	208	1	10	15	15	2MF.CR.FC.T.TC.DS

LOUVER SCHEDULE

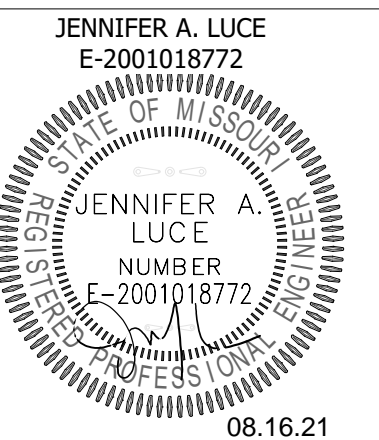
PLAN MARK	MANUFACTURER	MODEL	MATERIAL	SIZE	FREE AREA	MAXIMUM AIRFLOW (CFM)	MAX. ΔP (IN WG)	BLADE ANGLE	NOTES
LV2	RUSKIN	XP500	ALUMINUM	24"x24"	46.00%	950	0.15	45°	FEMA 361 LOUVER, CHEVRON STYLE BLADE ANGLE, INTEGRAL SCREEN, COLOR AS SELECTED BY ARCH. REFER TO 7/M4 FOR MORE INFORMATION

FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	EST. ESP (IN WG)	VOLTAGE	PHASE	MOTOR (HP)	NOTES
EF2	LOREN COOK	GC	75	0.3	120	1	0.04	GBD, CG, SC
SF1	LOREN COOK	SQN-D	950	0.5	120	1	0.17	GBD, DD, HK

SCHEDULE LEGEND

ABBREVIATED SCHEDULE HEADINGS	
A	AMPS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
E.A.T.	ENTERING AIR TEMPERATURE
E.S.P.	EXTERNAL STATIC PRESSURE INCLUDES ALL WORK EXTERNAL TO UNIT
EER	ENERGY EFFICIENCY RATIO
EST.	ESTIMATED
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
HP	HORSEPOWER
IN	INCH
L.A.T.	LEAVING AIR TEMPERATURE
LBS	POUNDS
LOAD	NOMINAL CONNECTED GAS LOAD TO UNIT, USED TO SIZE GAS PIPING
MCA	MINIMUM CIRCUIT AMPACITY
MIN.	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	MAXIMUM NOISE CRITERIA RATING
OA	OUTSIDE AIR
OUTPUT	MINIMUM REQUIRED OUTPUT TO SATIFY SCHEDULED HEATING REQUIREMENTS
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SHC	SENSIBLE HEAT CAPACITY
TEMP.	TEMPERATURE
THC	TOTAL HEAT CAPACITY
WB	WET BULB
ELECTRIC CABINET UNIT HEATER	
2MF	2" RECESS MOUNTING FRAME
CR	COLOR AS SELECTED BY ARCHITECT
DS	DISCONNECT SWITCH
T	TAMPER RESISTANT FRONT COVER
TC	INTEGRAL THERMOSTAT
TC	THERMAL CUTOFF
EXHAUST FAN SCHEDULE	
BD	BELT DRIVE MOTOR
CG	CEILING GRILLE - WHITE ALUMINUM
DD	DIRECT DRIVE MOTOR
DM	DISCONNECT MEANS
GBD	GRAVITY BACKDRAFT DAMPER
HK	HANGING KIT WITH RUBBER IN SHEAR ISOLATION
SC	SPEED CONTROLLER
PACKAGED ROOFTOP UNIT SCHEDULE	
ZSH	2-STAGE BURNER FOR HEAT EXCHANGER
CO2	CO2 SENSORS AS INDICATED IN PLANS
CR	MANUFACTURER MOUNTED GFCI CONVENIENCE RECEPTACLE
DS	SINGLE POINT MEANS OF DISCONNECT
F	PROVIDE 2" MERV 13 PLEATED FILTER WITH HOLDING FRAME
GM	GROUND MOUNTED WITH SIDE DISCHARGE
H	HUMIDISTAT AS INDICATED IN PLANS
HGR	HOT GAS REHEAT FOR HUMIDITY CONTROL
MOAE	0-100% MODULATING OUTDOOR AIR ECONOMIZER WITH BAROMETRIC RELIEF
R410A	PROVIDE UNIT WITH R410 REFRIGERANT
SD	SMOKE DETECTORS IN SUPPLY AND RETURN WIRED TO SHUT UNIT DOWN
T	7 DAY PROGRAMMABLE THERMOSTAT PER SPECIFICATIONS. THERMOSTAT SHALL INDEPENDENTLY CONTROL 2 POSITION OUTSIDE AIR INTAKE DAMPER BASED ON THE TIME OF DAY AND UNIT ON/OFF STATUS.
SPLIT SYSTEM SCHEDULE	
CBS	CIRCUIT BREAKER(S)
CP	CONDENSATE PUMP INTEGRAL TO UNIT
EQ	EQUIVALENT MANUFACTURERS FOR DUCTLESS SPLIT SYSTEM INCLUDE SANYO, DAIKIN AND LG.
HG	HALL GAUGES FOR CONDENSOR COILS
MS	MOUNTING STAND FOR CONDENSING UNIT ROOF INSTALLATION
T	PROGRAMMABLE AUTO-CHANGEOVER THERMOSTAT
THC	THC IN SCHEDULE IS FOR 47 DEG F OA TEMP. UNIT SHALL BE CAPABLE OF THC OF 12 AT 5 DEG F



MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

JENNIFER A. LUCE
E-2001018772
STATE OF MISSOURI
LICENSE NUMBER
E-2001018772
08.16.21

PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com



PROJECT DESCRIPTION:
M5 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM MECHANICAL SCHEDULES

PROJECT NUMBER:
20-606

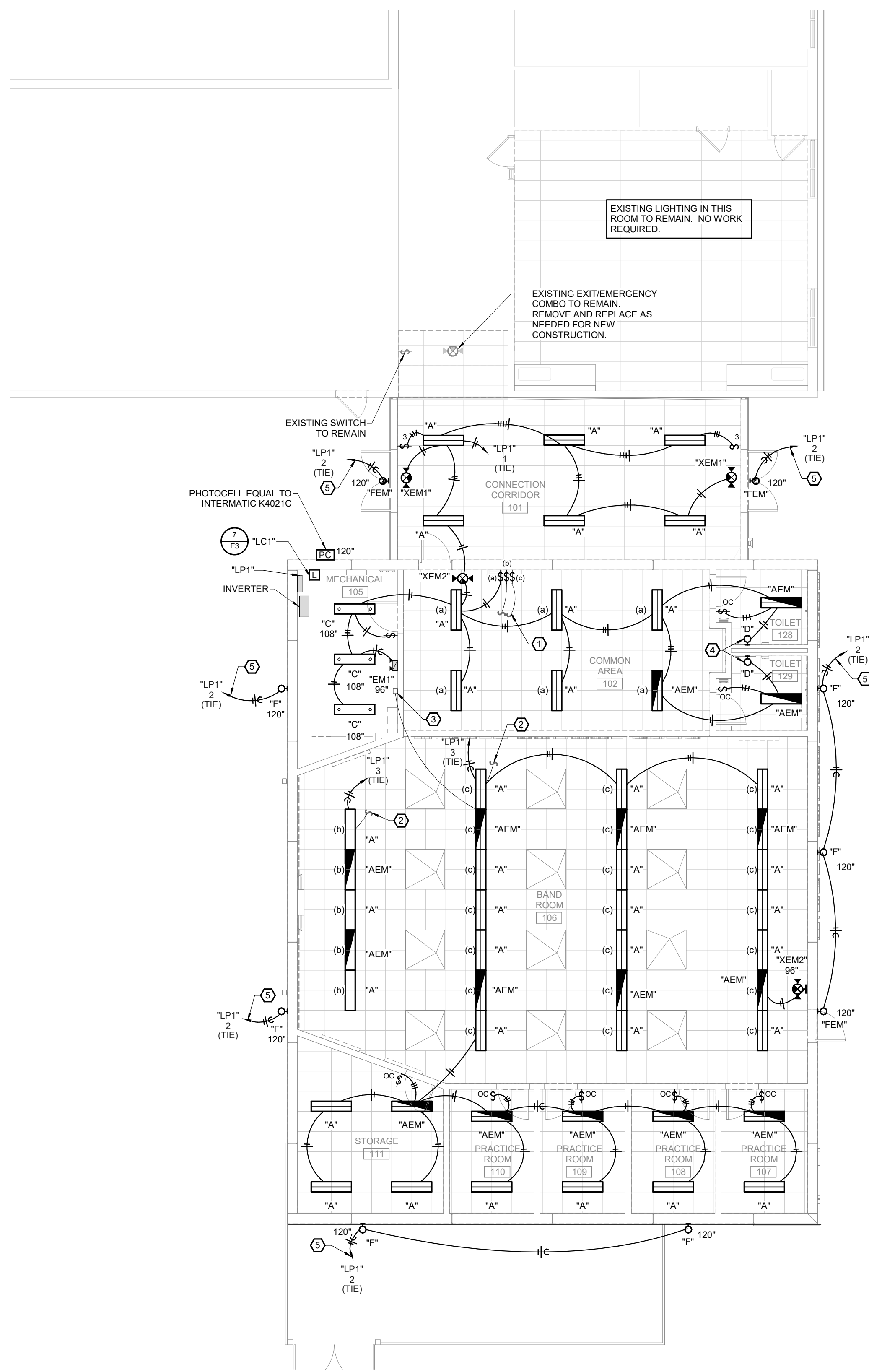
DATE:
2/23/2021

ENGINEER OF RECORD: JAL
DRAWN BY: JMC
CHECKED BY: EDH

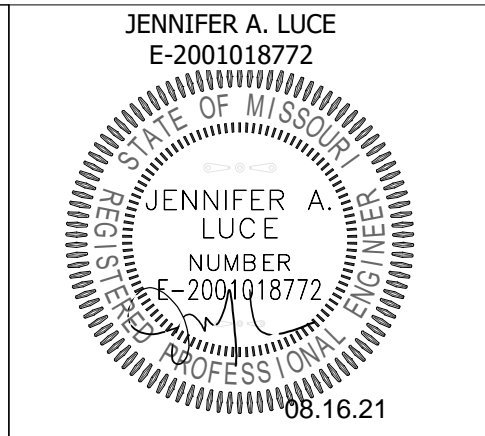
1025 Rogers Ave
Caboool, MO 65689

- PLAN HEX NOTES:**
1. EXTEND WIRING TO LIGHT FIXTURES IN BAND ROOM.
 2. EXTEND WIRING TO SWITCHES IN COMMON AREA.
 3. PROVIDE RELAY FOR OCCUPIED/UNOCCUPIED SIGNAL. RELAY SHALL SEND OCCUPIED SIGNAL WHEN BAND ROOM LIGHTS ARE ON. INTERFACE WITH HVAC CONTROLS AS REQUIRED.
 4. CENTER LIGHT FIXTURE ABOVE MIRROR.
 5. PULL SWITCH/LEG THRU CONTACTOR "LC1".

- GENERAL NOTES:**
- THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
 - CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
 - PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.
 - ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 - THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL ROOM INTERIOR ELEVATIONS. COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. ALL DEVICES SHALL BE RECESSED IN WALLS.
 - PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.
 - ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAPE, LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.
 - SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.
 - EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE SHALL REVIEW THE BID DOCUMENTS AS A WHOLE, INCLUDING ALL OTHER TRADES' DRAWINGS AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL, AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT. WHERE EQUIPMENT IS SHOWN ON THE MECHANICAL PLANS, BUT NOT SHOWN ON THE ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE EQUIPMENT BASED ON EQUIPMENT REQUIREMENTS AND INCLUDE ALL COSTS IN THE BASE BID.
 - LOCATION SHOWN OF ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT IS SCHEMATIC AND MAY NOT REFLECT ACTUAL CONNECTION POINTS. ROUGH-IN AND CONNECTION TO EQUIPMENT SHALL BE PER THE EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED FOR MOUNTING OF DISCONNECTING MEANS. VERIFY ALL ROUGH-IN REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.
 - PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORD AND PLUG SETS FOR EQUIPMENT NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER, AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-IN.
 - THERMOSTATS AND ALL ASSOCIATED LOW VOLTAGE CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THE THERMOSTATS AND ALL CONTROL WIRING. REFER TO MECHANICAL PLANS FOR THERMOSTAT LOCATIONS. E/C IS RESPONSIBLE FOR ALL 120V POWER.
 - PROVIDE UNSWITCHED/UNCONTROLLED HOT FROM NEAREST CIRCUIT TO EXIT SIGNS AND EMERGENCY FIXTURES WITH INTEGRAL BATTERIES.
 - CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY AND ARRANGE FOR ELECTRICAL SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRICAL SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. CONTACT STACY MONTER WITH CITY OF CABOOL AT (417) 892-3138 OR SMONTERCABOOLELECTRIC@GMAIL.COM
 - PROVIDE ALL RACEWAYS, SLEEVES, BOXES, CABLE TRAY, ETC. AS INDICATED FOR THE OWNER PROVIDED DATA, PHONE, TV CABLING SYSTEM. COORDINATE EXACT REQUIREMENTS WITH OWNER AND OWNER CONTRACTOR.
 - FOR PIPING AND CONDUITS OVER 1.5" DIAMETER - PIPE/CONDUITS SHALL SHIFT VERTICALLY AND HORIZONTALLY ON EACH SIDE OF THE WALL AND SHALL BE PROVIDED WITH PROTECTIVE CAGE ON EACH SIDE OF THE WALL. THE CAGE SHALL BE 2"x2"x3/8" ANGLE IRON FRAME WITH 0.5" WELDED REBAR IN 2"x2" PATTERN AND SECURELY ANCHORED ON THE WALL PER STRUCTURAL REQUIREMENTS.
 - PENETRATIONS IN FEMA AREA SHALL BE SEALED AND PROTECTED TO MEET ALL ICC-500 AND FEMA P-361 REQUIREMENTS.
 - PROVIDE ALL ANCHORS AND SUPPORTS FOR PENETRATIONS THROUGH FEMA ENCLOSED AREA TO BE ADEQUATELY SUPPORTED DURING STORM EVENTS TO NOT DAMAGE INTERIOR IF PIPE/CONDUIT/DUCT BREAKS FREE.
 - SUSPEND LIGHT FIXTURES WITH AIR CRAFT CABLE.
 - EXIT LIGHTS SHALL BE 12" ABOVE DOOR OR MAXIMUM OF 10' ABOVE FINISH FLOOR.
 - ALL ELECTRICAL DEVICES, SWITCHES, HVAC CONTROL DEVICES, ETC. LOCATED ON PRECAST WALLS SHALL REQUIRE RECESSED ROUGH-IN AND SHALL BE COORDINATED WITH PRECAST SUPPLIER.



1 FIRST FLOOR LIGHTING PLAN
E1 SCALE: 1/8" = 1'-0"



JENNIFER A. LUCE
 E-2001018772
 MISSOURI STATE BOARD OF ELECTRICAL ENGINEERS
 08.16.21

MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

PARAGON ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

engineering consultants
 1025 Rogers Ave
 Cabool, MO 65689
 PH: 417.885.0002
 www.paragonarchitecture.com



PROJECT DESCRIPTION:
 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM
 FIRST FLOOR LIGHTING PLAN

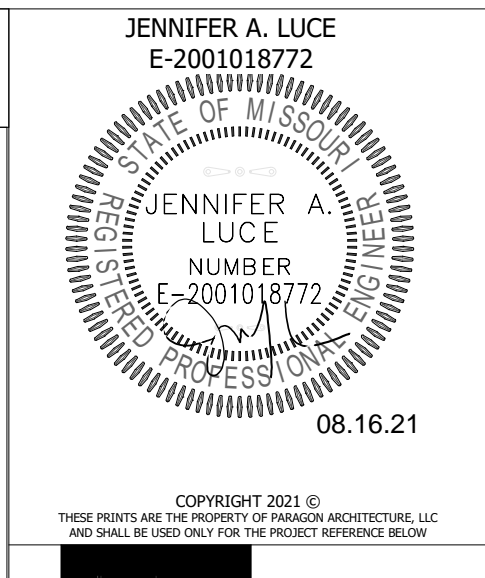
SHEET NUMBER:
 20-606
DATE:
 2/23/2021

ENGINEER OF RECORD: JAL
DRAWN BY: AGB
CHECKED BY: JAL

GENERAL NOTES:
REFER TO SHEET E1 FOR GENERAL NOTES.

PLAN HEX NOTES:

- 1 PROVIDE REQUIRED INTERCONNECTION BETWEEN "AHU1" AND "MS1".
- 2 WIRE TO LIGHTING CIRCUIT SO THAT FAN OPERATES WITH LIGHT FIXTURE.
- 3 ROUTE CIRCUIT THRU INVERTER FOR EMERGENCY POWER OPERATION.
- 4 OWNER SHALL PROVIDE ALL WORK AND EQUIPMENT ASSOCIATED WITH CEILING INTERCOM SPEAKERS AND WAP.
- 5 PROVIDE STARTER WITH SWITCH AND PILOT LIGHT. SWITCH SHALL OPERATE FAN "SF1". PROVIDE LABEL ENGRAVED "VENTILATION FAN".



MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

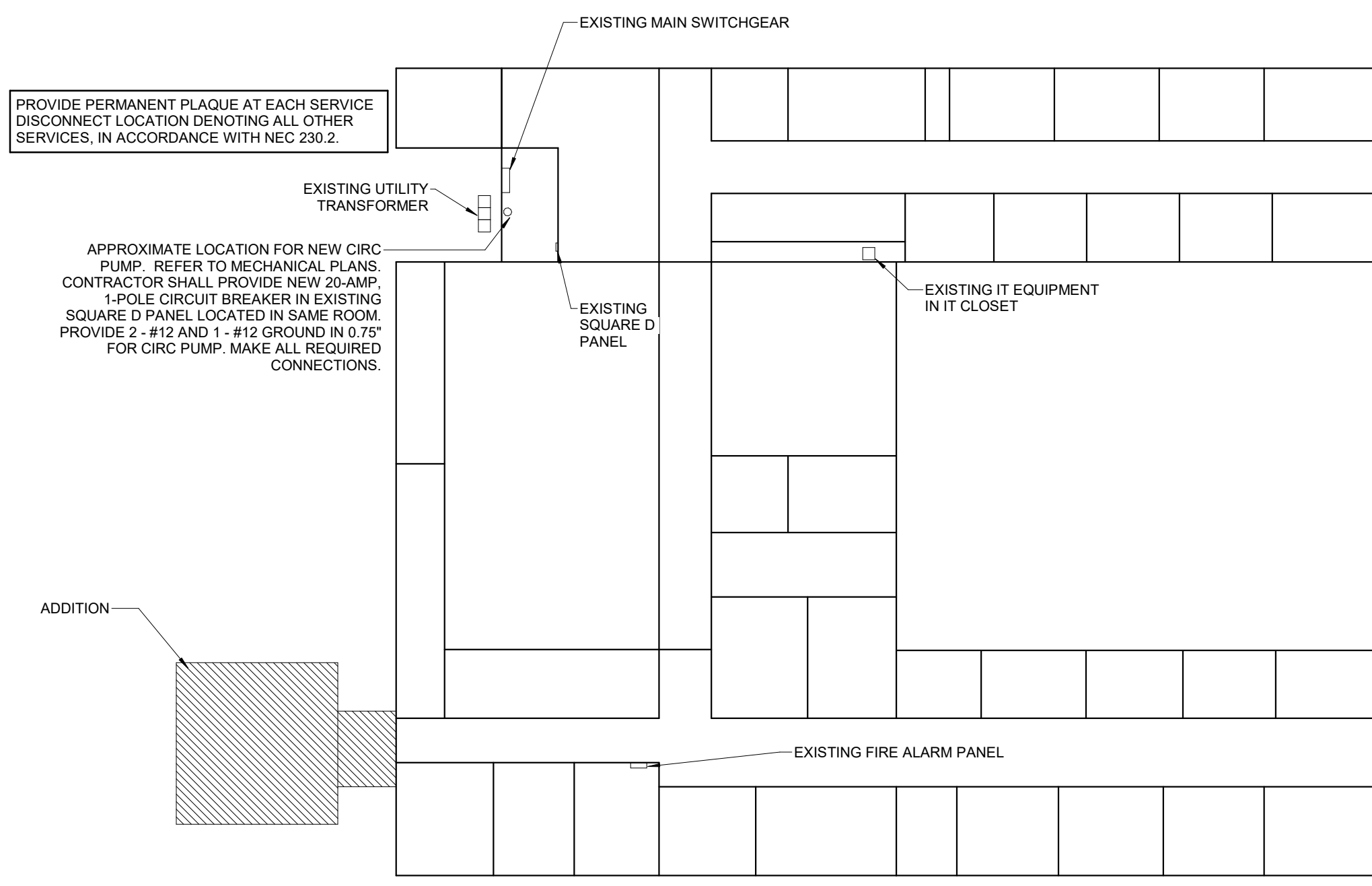
PARAGON ARCHITECTURE
637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

PROJECT DESCRIPTION:
**E2 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM
FIRST FLOOR POWER AND SPECIAL SYSTEMS PLAN**

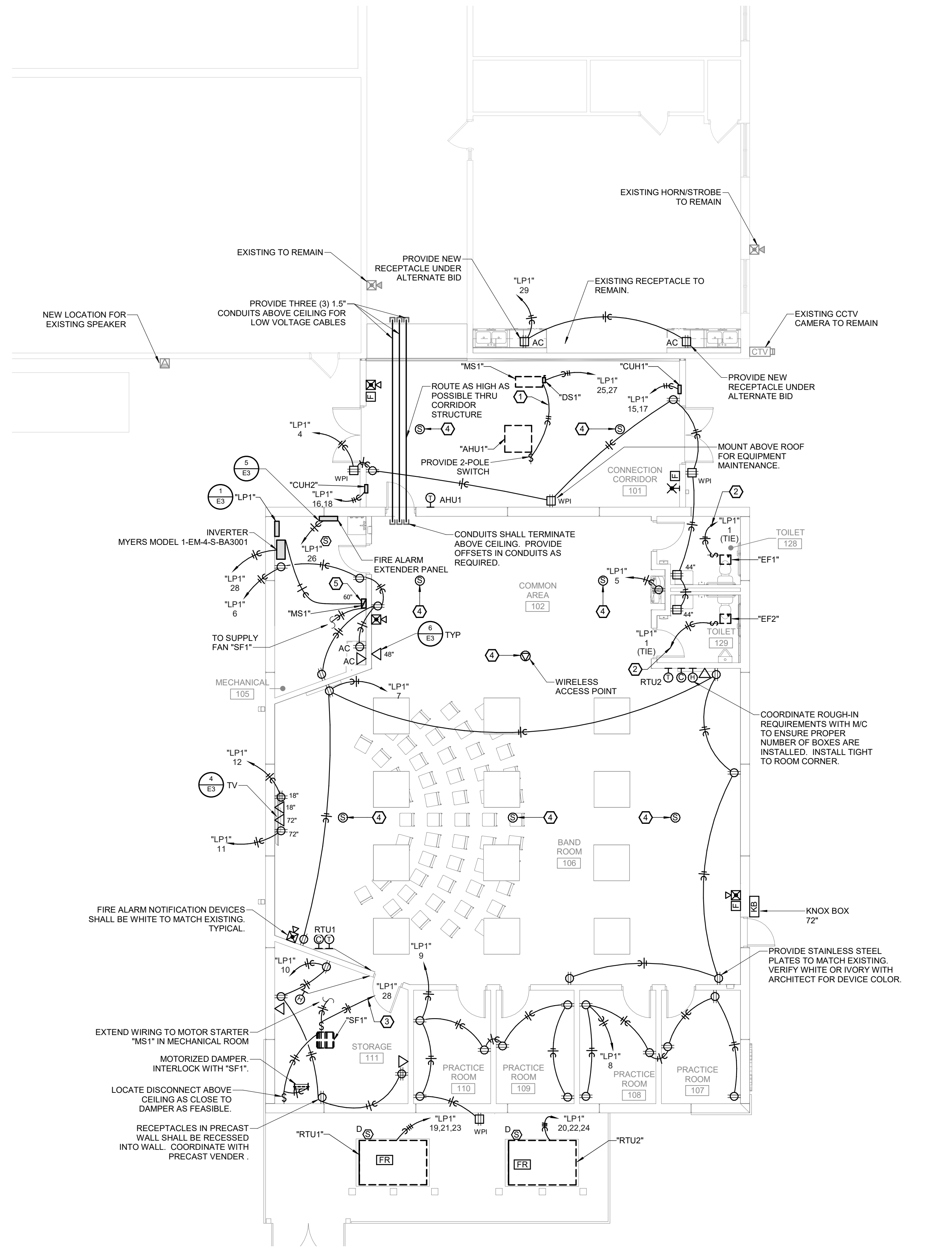
PROJECT NUMBER:
20-606

DATE:
2/23/2021

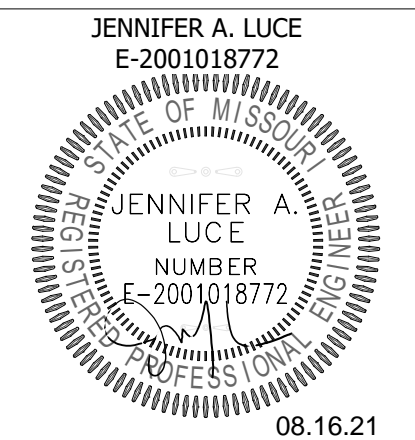
ENGINEER OF RECORD: JAL
DRAWN BY: AGB
CHECKED BY: JAL



2 KEY PLAN
E2 SCALE: NOT TO SCALE NORTH



1 FIRST FLOOR POWER AND SPECIAL SYSTEMS PLAN
E2 SCALE: 1/8" = 1'-0" NORTH



JENNIFER A. LUCE
E-2001018772
08.16.21

COPYRIGHT 2021, ID
AND SHALL BE USED ONLY FOR THE PROJECT PERFORMANCE BELOW

MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415

PARAGON
ARCHITECTURE

637 COLLEGE STREET, SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

engineering consultants
ARCHITECTS
ELECTRICAL ENGINEERS
MECHANICAL ENGINEERS
PLUMBING ENGINEERS
CIVIL ENGINEERS
ENVIRONMENTAL ENGINEERS



PROJECT DESCRIPTION:
E3 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM

SHEET NUMBER:
E3 ELECTRICAL DETAILS

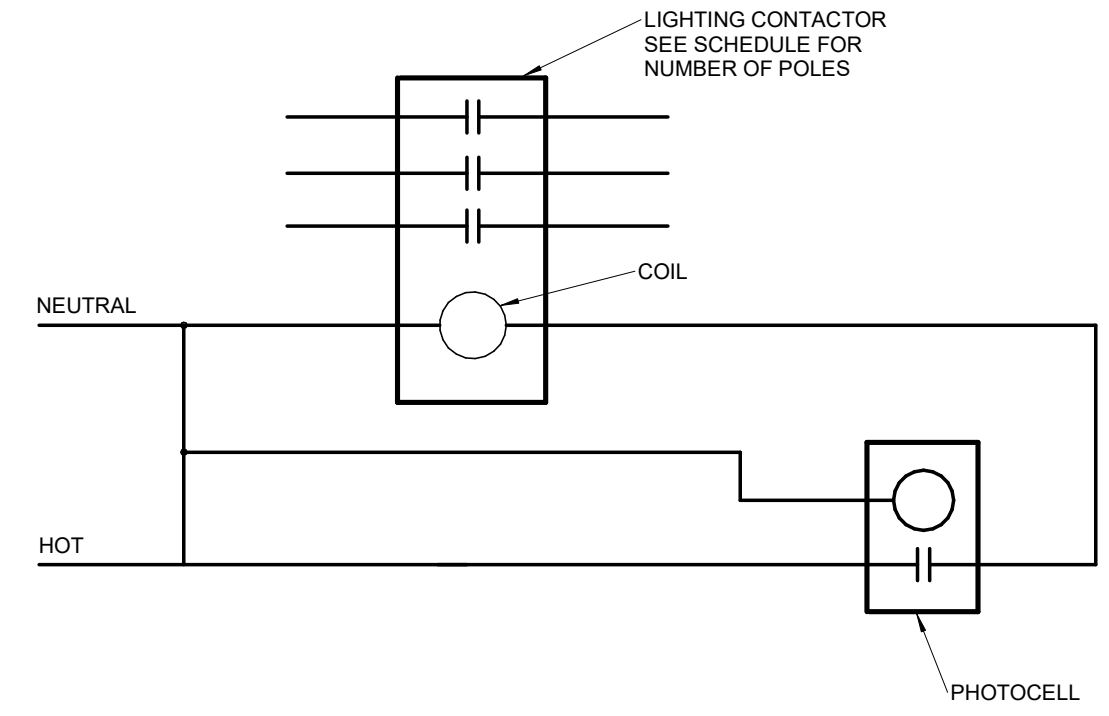
PROJECT NUMBER:
20-606

DATE:
2/23/2021

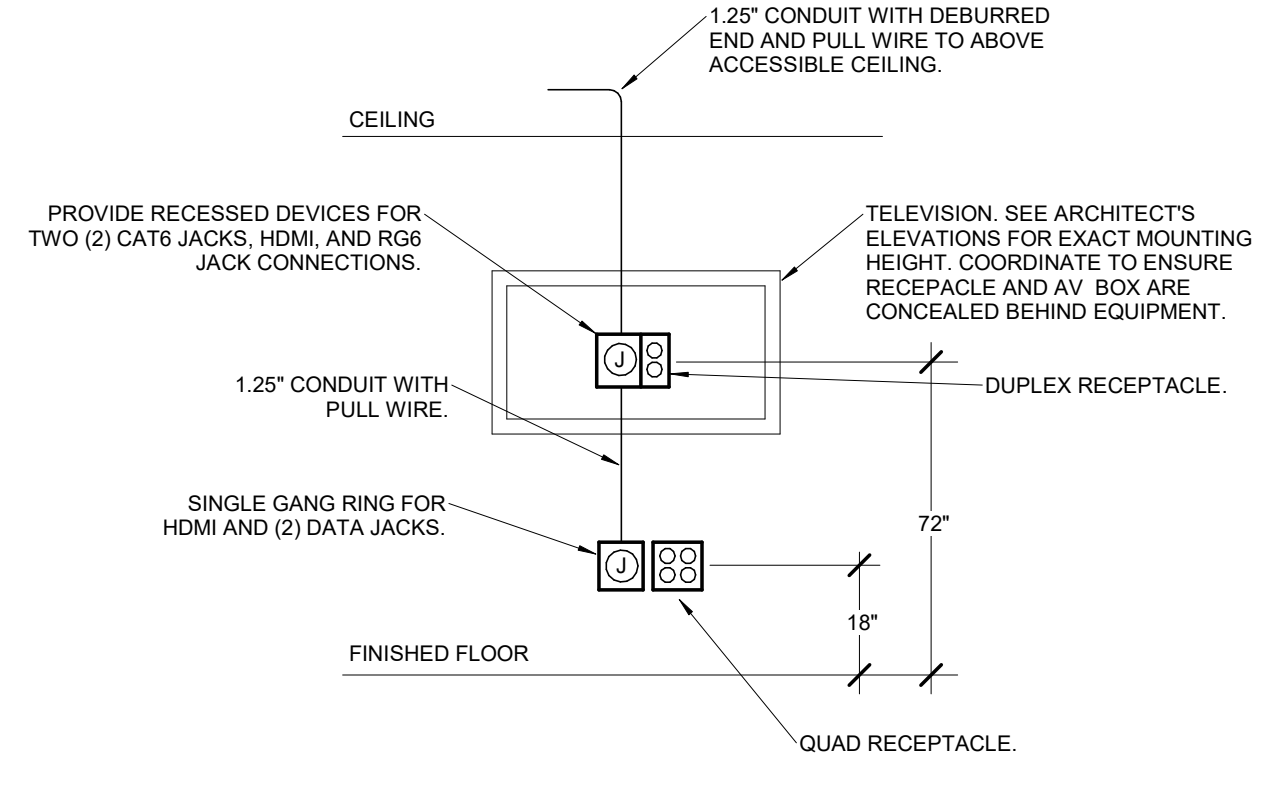
ENGINEER OF RECORD: JAL
DRAWN BY: AGB
CHECKED BY: JAL

1025 Rogers Ave
Cabool, MO 65689

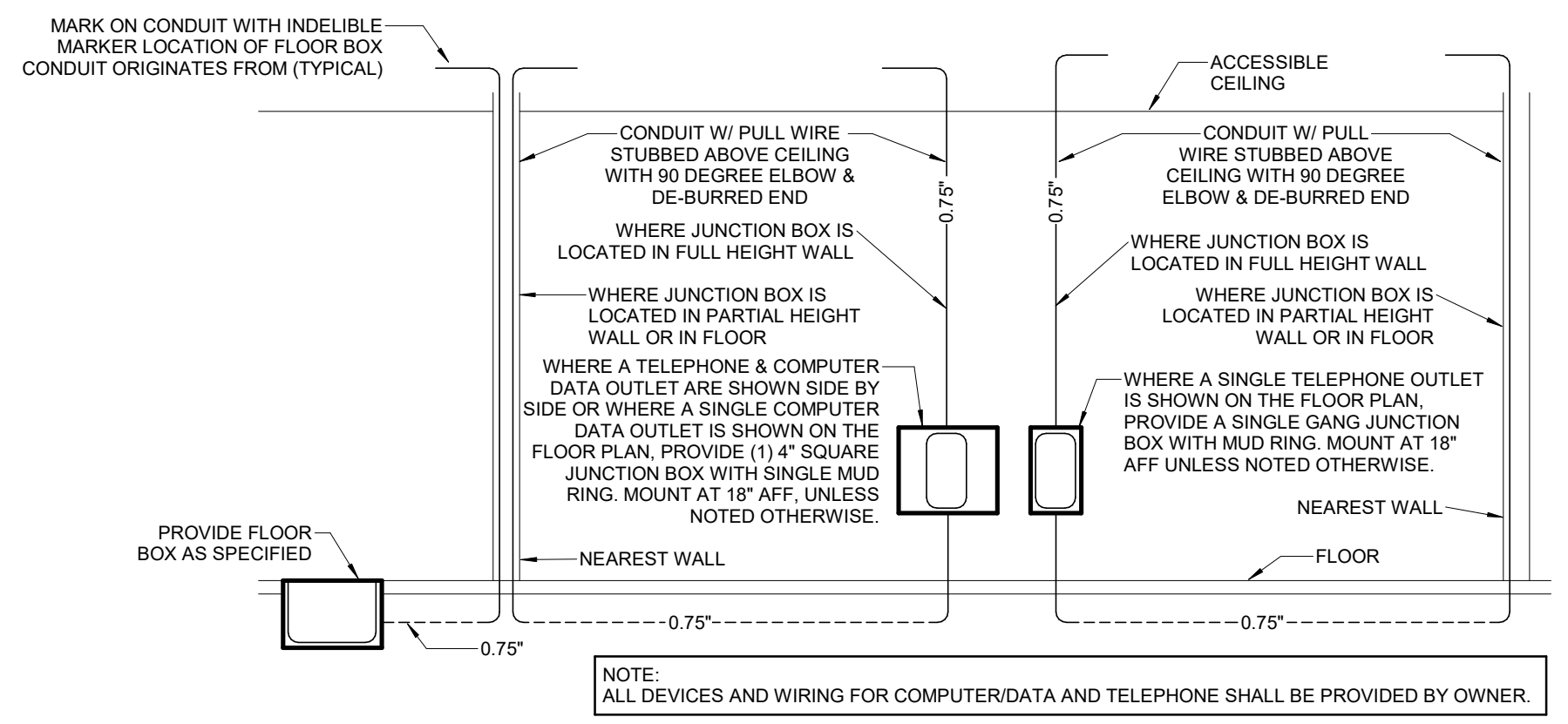
FEEDER TAG	FEEDER SIZE
22	2-#12, 1-#12 G, 0.75" C
33	3-#10, 1-#10 G, 0.75" C
43	3-#8, 1-#10 G, 0.75" C
44	4-#8, 1-#10 G, 0.75" C
53	3-#6, 1-#10 G, 0.75" C
54	4-#6, 1-#10 G, 1" C
63	3-#4, 1-#10 G, 1" C
64	4-#4, 1-#10 G, 1.25" C
64T	4-#4, 1-#8 G, 1.25" C
73	3-#4, 1-#8 G, 1" C
74	4-#4, 1-#8 G, 1.25" C
83	3-#3, 1-#8 G, 1.25" C
84	4-#3, 1-#8 G, 1.25" C
93	3-#2, 1-#8 G, 1.25" C
94	4-#2, 1-#8 G, 1.25" C
103	3-#1, 1-#8 G, 1.25" C
104	4-#1, 1-#8 G, 1.5" C
104T	4-#1, 1-#6 G, 1.5" C
123	3-#1, 1-#6 G, 1.5" C
124	4-#1, 1-#6 G, 1.5" C
153	3-#1/0, 1-#6 G, 1.5" C
154	4-#1/0, 1-#6 G, 1.5" C
173	3-#2/0, 1-#6 G, 1.5" C
174	4-#2/0, 1-#6 G, 1.5" C
174T	4-#2/0, 1-#4 G, 1.5" C
203	3-#3/0, 1-#6 G, 2" C
204	4-#3/0, 1-#6 G, 2" C
233	3-#4/0, 1-#4 G, 2.5" C
234	4-#4/0, 1-#4 G, 2.5" C
234T	4-#4/0, 1-#2 G, 2.5" C
253	3-250kcmil, 1-#4 G, 2.5" C
254	4-250kcmil, 1-#4 G, 2.5" C
303	3-350kcmil, 1-#4 G, 3" C
304	4-350kcmil, 1-#4 G, 3" C
353	3-500kcmil, 1-#3 G, 3" C
354	4-500kcmil, 1-#3 G, 3" C
403	(2) sets of 3-#3/0, 1-#3 G, 2" C
404	(2) sets of 4-#3/0, 1-#3 G, 2" C
404T	(2) sets of 4-#3/0, 1-#1/0 G, 2" C
503	(2) sets of 3-250kcmil, 1-#2 G, 2.5" C
504	(2) sets of 4-250kcmil, 1-#2 G, 2.5" C
604	(2) sets of 4-350kcmil, 1-#1 G, 3" C
604T	(2) sets of 4-350kcmil, 1-#2/0 G, 3" C
704	(2) sets of 4-500kcmil, 1-#1/0 G, 3" C
803	(3) sets of 3-300kcmil, 1-#1/0 G, 3" C
804	(3) sets of 4-300kcmil, 1-#1/0 G, 3" C
804T	(3) sets of 4-300kcmil, 1-#3/0 G, 3" C
1004	(3) sets of 4-400kcmil, 1-#2/0 G, 3" C
1204	(4) sets of 4-350kcmil, 1-#3/0 G, 3" C
1604	(5) sets of 4-400kcmil, 1-#4/0 G, 3" C
2604	(8) sets of 4-400kcmil, 1-#350 G, 3" C
G15	#8 COPPER GEC
G30	#6 COPPER GEC
G45	#4 COPPER GEC
G75	#2 COPPER GEC
G112	#1/0 COPPER GEC
G150	#2/0 COPPER GEC
G225	#3/0 COPPER GEC
G300	#3/0 COPPER GEC
G500	#3/0 COPPER GEC
G1200	#3/0 G (COPPER), 0.75" PVC
G188	250kcmil G, 1.5" PVC
GEN	1.5" C FROM GENERATOR TO ATS. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER.
METER	XX" C WITH PULL WIRE. GROUND METER PER UTILITY STANDARDS.
PRI	XX" C WITH PULL TAPE. PRIMARY UTILITY SERVICE FEEDER. COORDINATE ALL REQUIREMENTS WITH UTILITY.



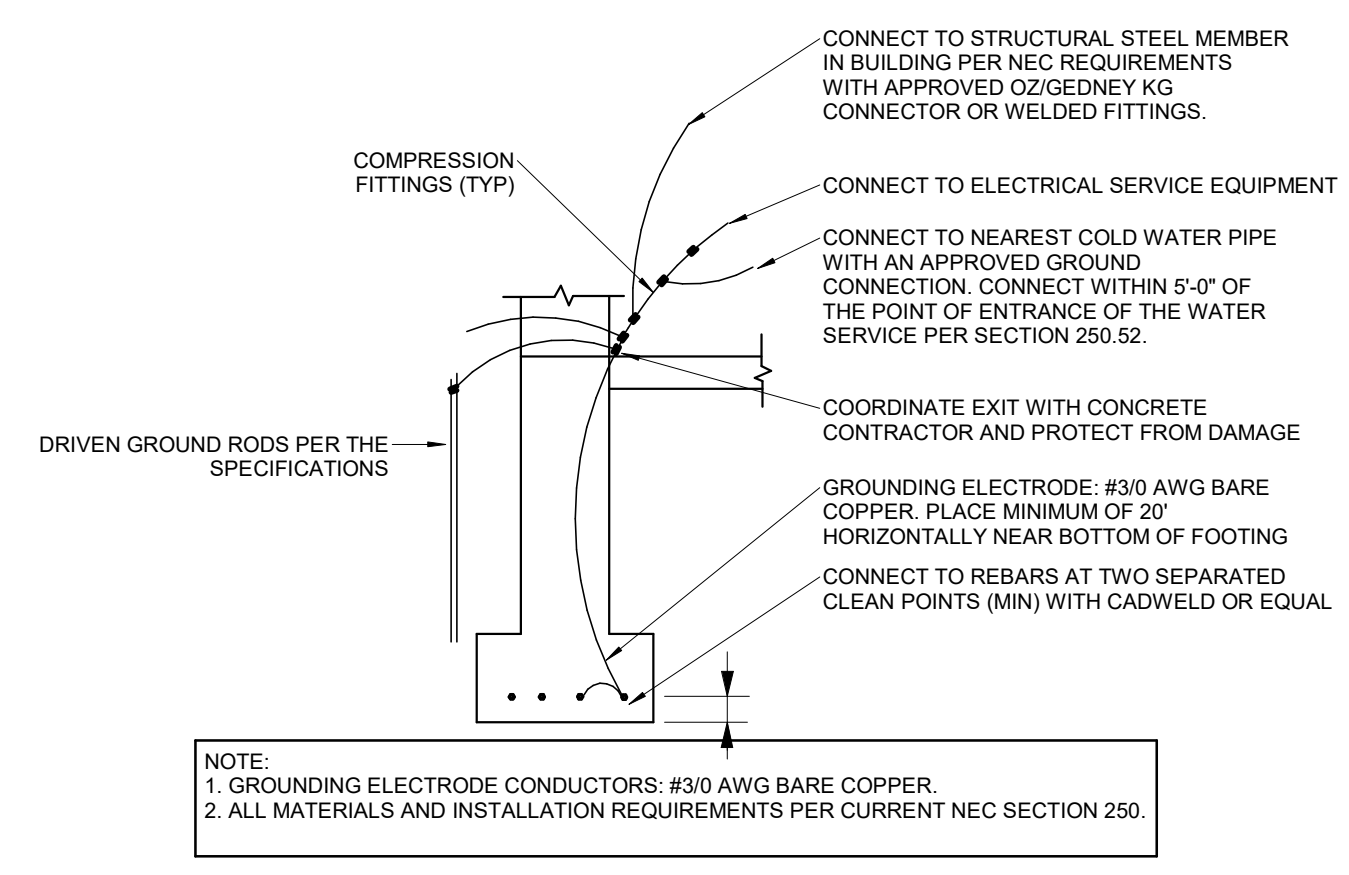
7 LIGHTING CONTROL DETAIL
SCALE: NOT TO SCALE



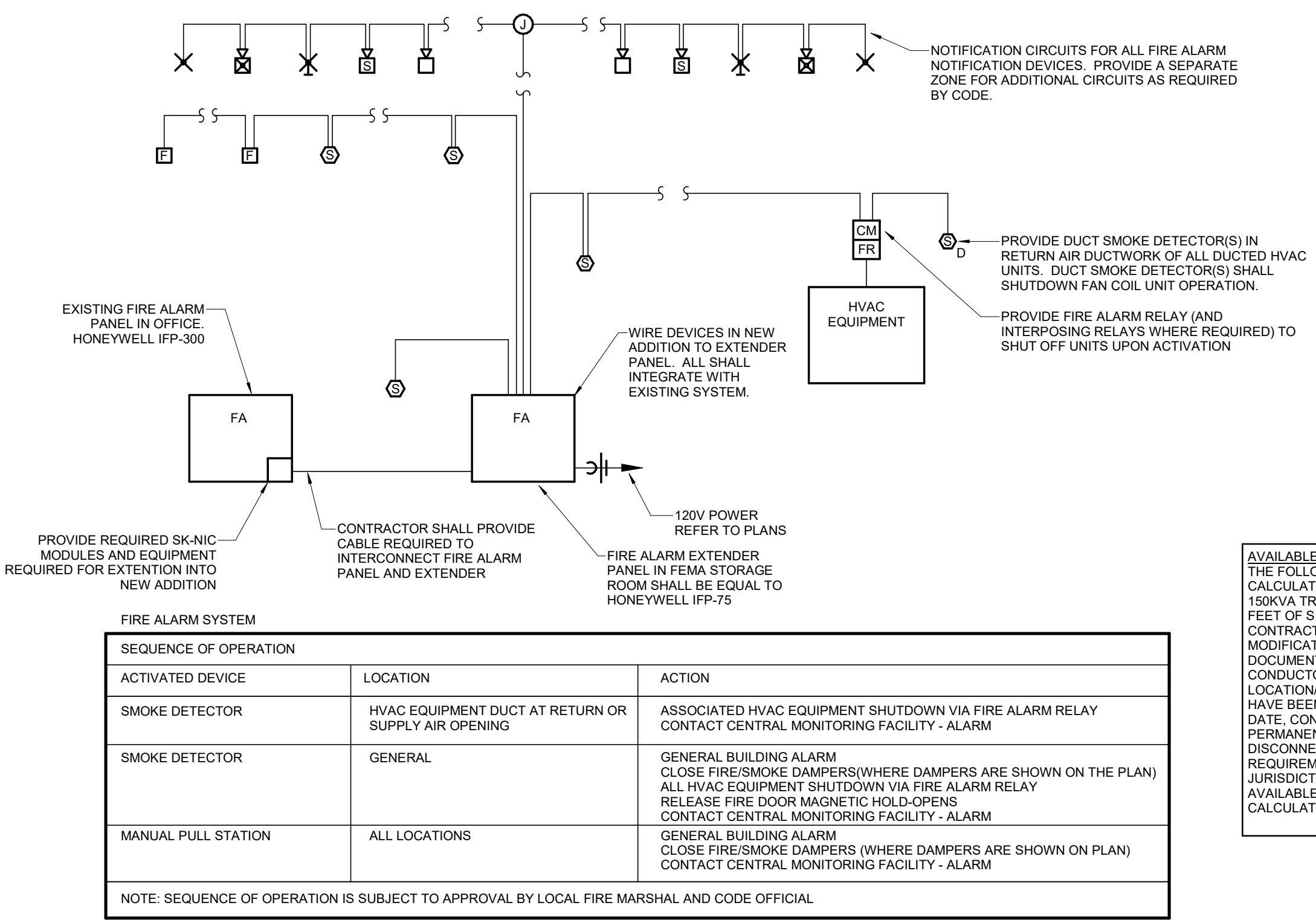
4 TV ELEVATION
SCALE: NOT TO SCALE



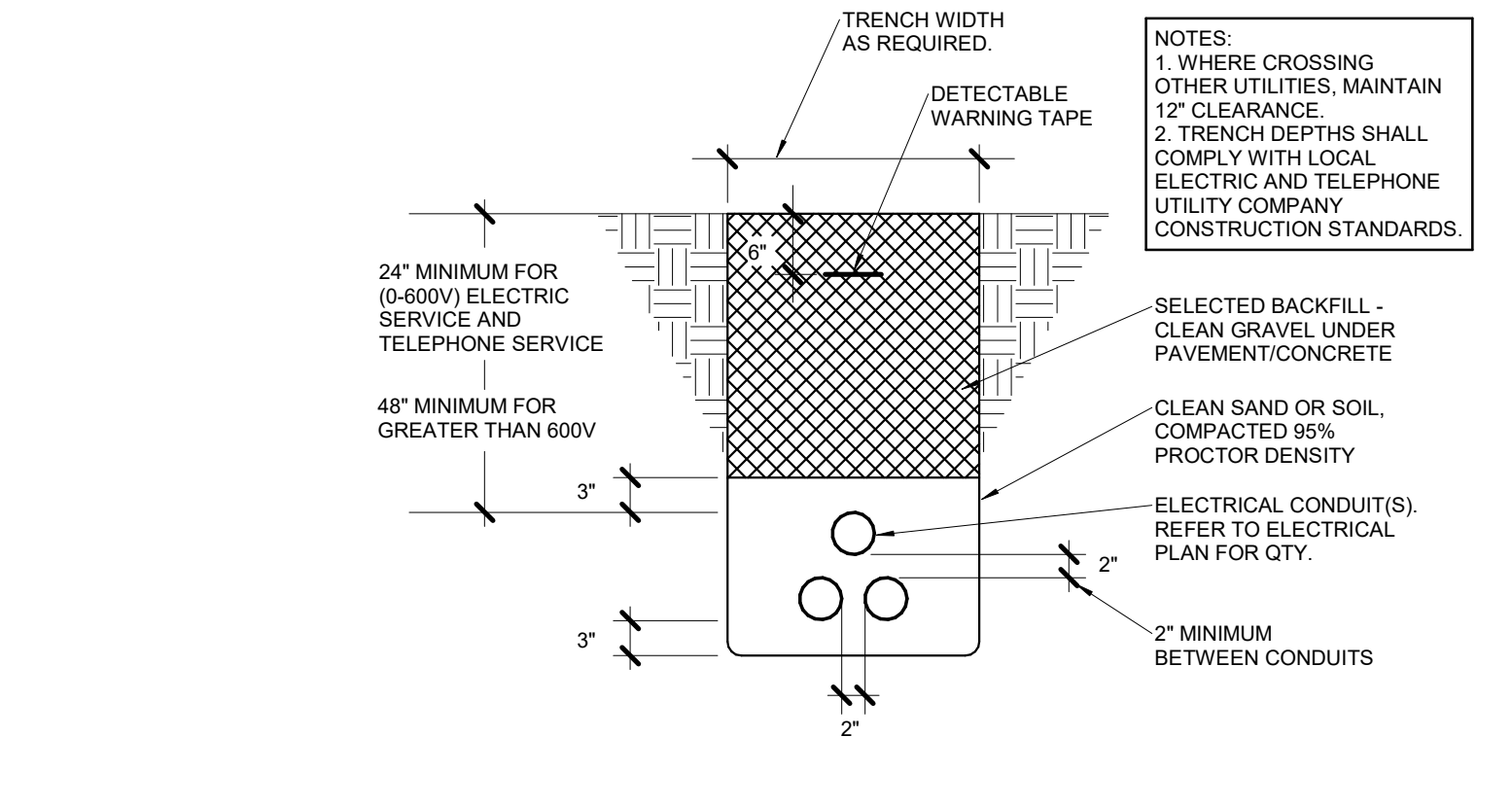
6 TELE/DATA ROUGH-IN DIAGRAM
SCALE: NOT TO SCALE



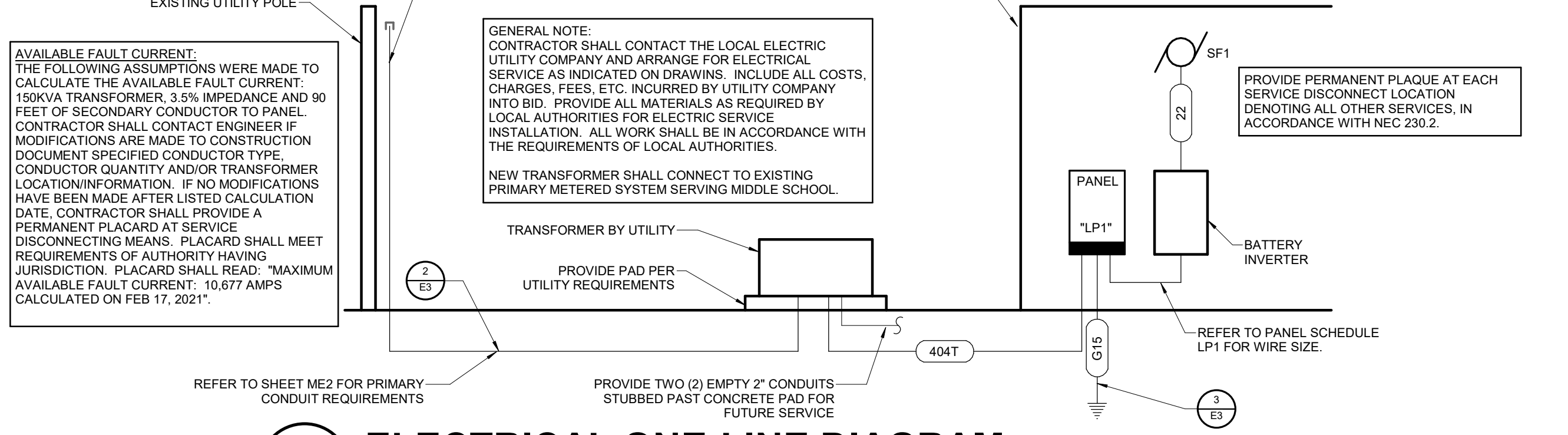
3 GROUNDING ELECTRODE DETAIL
SCALE: NOT TO SCALE



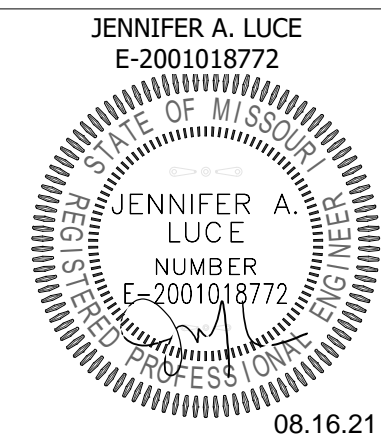
5 FIRE ALARM SYSTEM SCHEMATIC RISER AND SEQUENCE
SCALE: NOT TO SCALE



2 UNDERGROUND UTILITY ELECTRICAL CONDUITS
SCALE: NOT TO SCALE



1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NOT TO SCALE



COPYRIGHT 2021, ID
 THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC
 AND SHALL BE USED ONLY FOR THE PROJECT PERFORMANCE BELOW

MISSOURI STATE CERTIFICATE OF AUTHORITY #A-2016000415
PARAGON
 ARCHITECTURE
 637 COLLEGE STREET, SPRINGFIELD, MO 65806
 PH: 417.885.0002
 www.paragonarchitecture.com

engineering consultants
 Paragon Architecture, LLC
 1025 Rogers Ave
 Cabool, MO 65689
 ENGINEER OF RECORD: JAL
 DRAWN BY: AGB
 CHECKED BY: JAL

PROJECT DESCRIPTION:
E4 CABOOL MIDDLE SCHOOL TORNADO SAFE ROOM
 ELECTRICAL SCHEDULES
 PROJECT NUMBER:
20-606
 DATE:
 2/23/2021

LUMINAIRE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	EQUIVALENT MANUF. SERIES	MOUNTING TYPE	FINISH	LUMINAIRE SOURCE				ELECTRICAL		DESCRIPTION
						SOURCE TYPE	LUMENS	COLOR TEMP (K)	CRI	VOLTAGE	LOAD (VA)	
A	H.E. WILLIAMS	LP-14-L40/835-AF-UNV	HUBBELL, LITHONIA, LSI, SIGNIFY	GRID	WHITE	LED	4000	3500	80	120	40	1x4 PANEL
AEM	H.E. WILLIAMS	LP-14-L40/835-AF-UNV-L10-DC-2H	HUBBELL, LITHONIA, LSI, SIGNIFY	GRID	WHITE	LED	4000	3500	80	120	40	1x4 PANEL WITH 1000 LUMEN, 2-HOUR BATTERY BACKUP
C	H.E. WILLIAMS	80-4-L63/835-UNV	HUBBELL, LITHONIA, LSI, SIGNIFY	SUSPENDED	WHITE	LED	6300	3500	80	120	42	4" INDUSTRIAL
D	NULITE	RW6-B-06-L35-UNV-1C-FRF-WH-4	HUBBELL, LITHONIA, LSI, SIGNIFY	WALL	WHITE	LED	2800	3500	80	120	28	MOUNT ABOVE MIRROR
EM1	SURE LITES	SEL2SR16SD	HUBBELL, LITHONIA, LSI, SIGNIFY	UNIVERSAL	WHITE	LED				120	5	2-HOUR EMERGENCY LIGHT
F	McGRAW EDISON	ISC-AF-800-LED-E1-T4FT	HUBBELL, LITHONIA, LSI, SIGNIFY	WALL	DK BRONZE	LED	5000	4000	80	120	50	
FEM	McGRAW EDISON	ISC-AF-800-LED-E1-T4FT-CBP	HUBBELL, LITHONIA, LSI, SIGNIFY	WALL	DK BRONZE	LED	5000	4000	80	120	50	EMERGENCY EXTERIOR WALLPACK
XEM1	SURE LITES	APC7R	HUBBELL, LITHONIA, LSI, SIGNIFY	UNIVERSAL	WHITE	LED				120	5	EXIT/EMERGENCY COMBO
XEM2	SURE LITES	APCH7R	HUBBELL, LITHONIA, LSI, SIGNIFY	UNIVERSAL	WHITE	LED				120	5	2-HOUR EXIT/EMERGENCY COMBO

LIGHTING DEVICE SCHEDULE

PLAN MARK	MOUNTING TYPE	MANUFACTURER	MODEL	FINISH	NOTES
OC	WALL	WATTSTOPPER	DW-100	WHITE	LINE VOLTAGE DUAL TECH OCCUPANCY SWITCH PROGRAMMED TO AUTO ON/AUTO OFF

LIGHTING CONTACTOR SCHEDULE

PLAN MARK	LOAD	VOLTAGE	CONTACTOR				INTERLOCK	
			TYPE	AMPERAGE	POLES	NEMA RATING	CONTROL TYPE	CONTROLLED BY
LC1	EXTERIOR LIGHTS	120	NORMALLY OPEN ELECTRICALLY HELD	20	4	NEMA 1		120V COIL PHOTOCELL

DISCONNECT SCHEDULE

PLAN MARK	EQUIPMENT SERVED	LOAD	VOLTAGE	SWITCH			ENCLOSURE	NOTES
				AMP	POLES	NEMA TYPE		
DS1	MS1	208	208	GD	30	2	NEMA 3R	

ABBREVIATION SCHEDULE

PL	PILOT LIGHT
AC	AUXILIARY CONTACT
OL	OVERLOAD PROTECTION
SW	ON/OFF SWITCH

PANELBOARD NOTES

GENERAL NOTES	
1	PROVIDE 20 AMP 1-POLE SPARE BREAKERS FOR ALL UNUSED POLES UNLESS NOTED OTHERWISE.
2	
3	
CIRCUIT BREAKER ACCESSORY ABBREVIATION	
AC	AUXILIARY CONTACTS
AF	ARC-FAULT INTERRUPTING
AT	ALARM TRIP
EPD	EQUIPMENT PROTECTION DEVICE
EX	EXISTING CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT INTERRUPTING BREAKER
HACR	HACR RATING
HLF	HANDLE LOCK-OFF
HLN	HANDLE LOCK-ON
SR	SWITCH RATING
ST	SHUNT TRIP BREAKER
PANELBOARD ACCESSORY ABBREVIATION	
CH	CONCEALED HINGE
CL	COMPRESSION LUGS
CW	COLUMN WIDTH PANEL
DD	HINGED DOOR WITHIN A DOOR
EGB	EXTENDED GUTTER BOTTOM
EGL	EXTENDED GUTTER LEFT
EGR	EXTENDED GUTTER RIGHT
EGT	EXTENDED GUTTER TOP
FL	FLUSH LOCK(S)
FTL	FEED-THRU LUGS
GB	EQUIPMENT GROUND BAR
GBI	GROUND BAR INSULATOR
NBK	NEUTRAL BOND KIT
SER	SERVICE ENTRANCE RATING
SFB	SUB-FEED CIRCUIT BREAKER
SFL	SUB-FEED LUGS
SCB	SECOND GROUND BAR KIT
SPD	SURGE PROTECTION DEVICE
TRN	200% RATED NEUTRAL BAR

MAGNETIC MOTOR STARTER SCHEDULE

PLAN MARK	EQUIPMENT SERVED	LOAD	MOTOR HP	VOLTAGE	PHASE	STARTER			INTERLOCK	
						SIZE	TYPE	ACCESS.	STARTS	STARTED BY
MS1	SUPPLY FAN "SF1"	.17	.17	120	1	00	SOFT START	AC, OL, PL, SW	"SF1"	MANUAL SWITCH

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL NAME:		LOCATION:		VOLTAGE:		MAIN TYPE:												
"LP1"		MECHANICAL 105		120/208V, 3Ph, 4W		MCB												
		FED BY: "		ENCLOSURE: NEMA 1		BUS RATING (A): 400 AMP												
		MOUNTING: SURFACE		MANUFACTURER: SQUARE D		MCB RATING (A): N/A												
				PANEL TYPE: NQ		MIN. AIC RATING (A):												
CKT	LOAD DESCRIPTION	C	W	G	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT	
1	LIGHTING	0.75"	#12	#12	20	1	1122	450				1	20	#12	0.75"	LIGHTING	2	
3	LIGHTING	0.75"	#12	#12	20	1			1525	1260		1	20	#12	0.75"	RECEPTACLE	4	
5	WATER COOLER	0.75"	#12	#12	20	1	GFI					1	20	#12	0.75"	RECEPTACLE	6	
7	BAND RECEPTACLES	0.75"	#12	#12	20	1		1080	1080			1	20	#12	0.75"	PRACTICE RECEPTACLES	8	
9	PRACTICE RECEPTACLES	0.75"	#12	#12	20	1			1260	900		1	20	#12	0.75"	RECEPTACLE	10	
11	RECEPTACLE	0.75"	#12	#12	20	1						1	20	#12	0.75"	RECEPTACLE	12	
13	SPARE	--	--	--	20	1	--	0	0			--	1	20	--	SPARE	14	
15	CUH1	0.75"	#12	#12	15	2	--	--	1000	1000		--	2	15	#12	0.75"	CUH2	16
17		--	--	--	--	--	--	--				--	--	--	--	--	--	18
19	RTU1	0.75"	#8	#10	35	3	2402	2402				3	35	#10	0.75"	RTU2	20	
21		--	--	--	--	--			2402	2402		--	--	--	--	--	--	22
23		--	--	--	--	--						--	--	--	--	--	--	24
25	MS-1	0.75"	#12	#12	20	2	1092	1200				1	20	#12	0.75"	FIRE ALARM PANEL	26	
27		--	--	--	--	--			1092	528		1	20	#12	0.75"	SF1	28	
29	ART RECEPETS (ALT BID)	0.75"	#12	#12	20	1						360	0	--	--	SPARE	30	
31	EXISTING EXTERIOR CIRCUIT	0.75"	#12	#12	20	1	HA...	1200	0			--	1	20	--	SPARE	32	
33	EXISTING EXTERIOR CIRCUIT	0.75"	#12	#12	20	1	HA...		1200	0		--	1	20	--	SPARE	34	
35	SPARE	--	--	--	20	1	--	--				0	0	--	--	SPARE	36	
37	SPARE	--	--	--	20	1	--	--				--	1	20	--	SPARE	38	
39	SPARE	--	--	--	20	1	--	--	0	0		--	1	20	--	SPARE	40	
41	SPARE	--	--	--	20	1	--	--				--	1	20	--	SPARE	42	
CONNECTED PHASE LOAD							12028 VA	14569 VA	8604 VA									
*PHASE DIVERSIFIED LOAD							12306 VA	14906 VA	8803 VA									
*PHASE DIVERSIFIED AMPS							107 A	129 A	73 A									
										CALCULATED PANEL AMPS:								
										161 A								
										(*DIVERSIFIED LOADS CALCULATED PER THE NATIONAL ELECTRIC CODE.)								
NOTES/ACCESSORIES:										PANEL TOTALS								
1. PROVIDE SPARE 20A, SINGLE-POLE BREAKERS IN ALL UNUSED SPACES.										TOTAL CONNECTED LOAD: 35200 VA								
2. SERVICE ENTRANCE RATED										TOTAL DIVERSIFIED LOAD: 36016 VA								
3. PANEL SHALL BE RATED FOR 22,000 AIC										CONTROLLING LOAD: N/A								