

New Fire Station No. 10

Court Street Montgomery Alabama 36108

for the

The City of Montgomery Fire Department

MGM PROJECT NO.: SP-5-21

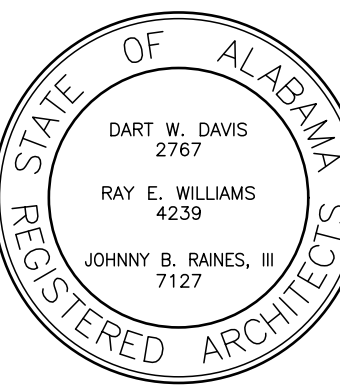
BDW PROJECT NO.: 2021-118



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5/17/2023

CONFORMANCE DOCUMENTS

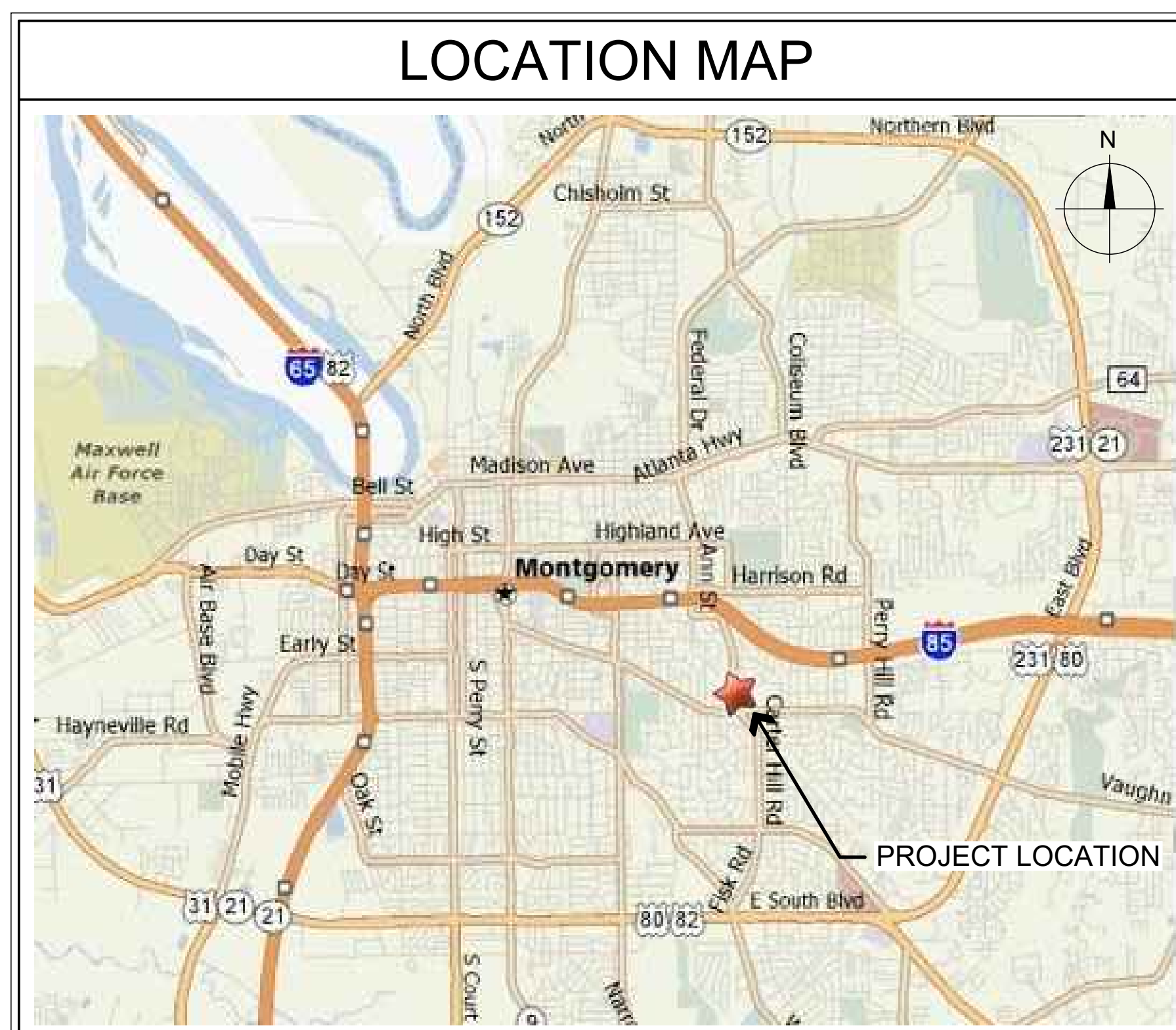
PROJECT TEAM

OWNER: CITY OF MONTGOMERY 103 N. SOUTH PERRY STREET MONTGOMERY, ALABAMA 36104 PHONE: (334) 625-4636	PROJECT MANAGER: JACOBS ENGINEERING 4121 CARMICHAEL ROAD, SUITE 400 MONTGOMERY, ALABAMA 36106 PHONE: (334) 271-1444
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MECH. & PLUMB. ENGINEER: ZGOUVAS EIRING AND ASSOCIATES 800 S. McDONOUGH STREET MONTGOMERY, ALABAMA 36104 PHONE: (334) 263-4406	STRUCTURAL ENGINEER: BLACKBURN DANIELS O'BARR CONSULTING STRUCTURAL ENGINEERS 8905 COUNTY ROAD 40 EAST LOWNDESBORO, ALABAMA 36752 PHONE: (334) 265-0206
LANDSCAPE ARCHITECT: GOODWYN MILLS CAWOOD (GMC) PO BOX 24128 MONTGOMERY, ALABAMA 36124 PHONE: (334) 271-3200	ELECTRICAL ENGINEER: GUNN AND ASSOCIATES ENGINEERING 205 HOMEWOOD DRIVE MILLBROOK, ALABAMA 36054 PHONE: (334) 285-1273
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LOCATION MAP



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

TITLE SHEET

Sheet No:
T1.1

CONFORMANCE DOCUMENTS

SITE NOTES

1. SIDEWALKS SHALL BE 5 FEET WIDE AND 4 INCHES THICK EXCEPT AS SHOWN ON THE SITE PLAN. ALL SIDEWALKS SHALL HAVE A BROOM FINISH.
2. THE CONTRACTOR SHALL ADHERE TO THE LOCATIONS AND GEOMETRIC SHAPES FOR PADS OTHER THAN THE BUILDING AS SHOWN ON THE SITE PLAN UNLESS SPECIFIC DETAILS ARE PROVIDED IN THE ARCHITECTURAL DRAWINGS.
3. IN THE EVENT THAT THERE IS A DISCREPANCY FOR MINOR OUT STRUCTURES BETWEEN THE CIVIL DRAWINGS AND THE ARCHITECTURAL DRAWINGS, THE ARCHITECTURAL DRAWINGS WILL HAVE PRECEDENCE.
4. THE CONTRACTOR SHALL USE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ANY WORK DONE ON THE PAD, CONNECTING RAMPS, DOOR STOOPS, STEPS AND THE DUMPSTER PAD AREA.
5. THE CONTRACTOR SHALL ABIDE BY THE CONCRETE PAVEMENT RECOMMENDATIONS AS SET FORTH IN THE GEOTECHNICAL REPORT INCLUDING SUBGRADE PREPARATION.
6. THE CONTRACTOR SHALL PLACE CONSTRUCTION JOINTS AND FLEXIBLE JOINT COMPOUND AS RECOMMENDED IN THE GEOTECHNICAL REPORT AND IN ACCORDANCE WITH THE PORTLAND CEMENT ASSOCIATION.
7. THE CONTRACTOR SHALL SUBMIT A SKETCH OF JOINT PLACEMENT TO THE ENGINEER FOR APPROVAL PRIOR TO THAT PHASE OF WORK.
8. ALL RAMPS, GRADES IN HANDICAP AREAS, HANDICAP SIGNS AND HANDICAP PARKING AREAS SHALL CONFORM TO CURRENT ADA-AG STANDARDS.
9. THE USE OF SPILL OUT CURB AND GUTTER SHALL BE USED IN AREAS INDICATED AS HAVING A WATER FLOW THAT IS LEAVING THE CURB LINE. ANY TRANSITIONS FROM STANDARD CURB AND GUTTER TO SPILL OUT CURB AND GUTTER TO BE CONSTRUCTED IN SUCH A MANNER THAT NO PONDING OR BIRD BATHS OCCUR. THE CONTRACTOR SHALL ENSURE THAT ALL PAVED AREAS DRAIN IN THIS SAME MANNER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AN AS-BUILT SURVEY PRIOR TO BEGINNING ANY WORK IN ORDER TO SATISFY HIMSELF OF THE SITE CONDITIONS. THE COST ASSOCIATED SHALL BE INCLUDED IN THE BID.

UTILITY NOTES

1. ALL WORK DESCRIBED, SHOWN, REFERENCED, OR OTHERWISE INDICATED IN OR ON THE DRAWINGS, PROPOSAL, ADVERTISEMENT AND SPECIFICATIONS ARE TO BE COMPLETED IN-PLACE AND SERVICEABLE ACCORDING TO THE PLANS, INSTRUCTIONS, SPECIFICATIONS, LINES AND GRADES INDICATED ON THE PLANS AND ALL APPLICABLE STATE, FEDERAL, AND MUNICIPAL CODES AND STANDARDS. INDIVIDUAL ITEMS OF WORK THAT ARE NECESSARY TO COMPLETE THE PROJECT TO THE LINES AND GRADES, WHETHER SHOWN OR DESCRIBED IN THE PLANS AND SPECIFICATIONS, ARE TO BE CONSIDERED INCIDENTAL AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR IS EXPECTED TO CAREFULLY EXAMINE THE PLANS, PROPOSAL AND SITE OF THE WORK. THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARD TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.
3. THE WORK ON THIS PROJECT SHALL ADHERE TO THE FOLLOWING SPECIFICATIONS, STANDARDS AND/OR REGULATIONS:
 - ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) - "BEST MANAGEMENT PRACTICES MANUAL" AND THE REQUIREMENTS OF THE SITE SPECIFIC NPDES DISCHARGE PERMIT ISSUED FOR THIS PROJECT.
 - ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - LATEST EDITION. ANY AND ALL REFERENCES TO UNIT PRICES ARE NOT APPLICABLE TO THIS PROJECT.
 - CITY OF MONTGOMERY STANDARDS AND SPECIFICATIONS, WATER WORKS AND SANITARY SEWER BOARD OF THE CITY OF MONTGOMERY STANDARDS AND SPECIFICATIONS, THE DRAWINGS AND SPECIFICATIONS. IF CONFLICTS ARISE BETWEEN THESE REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
4. THE CONTRACTOR WILL NOT HAVE TO PAY ANY PERMIT FEES OR POST A GRADING BOND TO THE CITY FOR THIS PROJECT.
5. SITE SECURITY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL FUEL STORAGE TANKS USED ON THE SITE BY THE CONTRACTOR MUST MEET ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
7. THE CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED ON-SITE BY THE ENGINEER. THIS TEMPORARY DRAINAGE OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.
8. ELECTRONIC DATA THAT MAY BE GIVEN TO THE CONTRACTOR EITHER AS AN AID IN THE PREPARATION OF HIS BID OR IN THE CONSTRUCTION OF THE IMPROVEMENTS WILL BE DONE SO STRICTLY AS A COURTESY TO THE CONTRACTOR. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE ELECTRONIC INFORMATION SO TRANSFERRED. IN ALL CASES, THE PRINTED PLANS AS ISSUED BY THE ENGINEER SHALL GOVERN. A LETTER RELEASING THE ENGINEER FROM LIABILITY WILL BE REQUIRED OF THE CONTRACTOR PRIOR TO THE RELEASE OF SAID INFORMATION.
9. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPLICABLE GOVERNMENTAL AGENCIES AND DEPARTMENTS OF THE BEGINNING OF CONSTRUCTION.
10. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION, INCLUDING STUBOUTS. EXISTING UTILITIES SHOWN HAVE BEEN DRAWN USING THE BEST AVAILABLE INFORMATION AND HAVE NOT BEEN FIELD VERIFIED. ALL EXISTING UTILITIES TO BE UNCOVERED AND VERIFIED AS TO SIZE, LOCATION, ELEVATION AND CONDITION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. THE CITY WILL WAIVE ALL TIPPING FEES FOR C&D MATERIAL AT THE NORTH MONTGOMERY LANDFILL.
12. NO DEVIATION FROM THE PLANS IS ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. SAID APPROVAL SHALL BE GIVEN IN WRITING.
13. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE VARIOUS UTILITY COMPANIES ON THE PLACEMENT OF THEIR SERVICES.
14. THE CONTRACTOR SHALL USE BENDS AND FITTINGS AS NECESSARY TO CONSTRUCT THE WATER LINE AS SHOWN.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL APPROVAL OF WORK DONE ON OR ADJACENT TO EXISTING STREETS/ROADS AND RIGHT OF WAY. WRITTEN APPROVAL FROM THE APPLICABLE AGENCY IS REQUIRED PRIOR TO RELEASE OF THE CONTRACTOR'S RETAINAGE.
16. THE CONTRACTOR MUST ADJUST ALL VALVE BOXES, COVERS, METERS, MANHOLE RIMS, AND OTHER WATER, STORM, POWER, TELECOMMUNICATIONS AND SANITARY SEWER SERVICE APPURTENANCES TO FINAL GRADE. THE COST OF THESE ADJUSTMENTS SHALL BE INCLUDED IN THE BID.
17. ALL STORM SEWER CONCRETE PIPE JOINTS SHALL BE WATERTIGHT.
18. ALL STORM SEWER AND SANITARY SEWER SHALL BE LAID FROM THE LOWEST POINT FOLLOWING THE RISING GRADE.
19. BACKFILL AND COMPACTION OF ALL TRENCHES WILL CONFORM TO THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER. TESTING OF THE FILL AND COMPACTION MUST BE PERFORMED BY THE TESTING LABORATORY ACCORDING TO THE SPECIFICATIONS WITH THE TEST REPORTS FORWARDED TO THE ENGINEER. ANY BACKFILL FAILING TO MEET COMPACTION REQUIREMENTS WILL BE REMOVED AND REWORKED UNTIL COMPACTION IS ACHIEVED. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
20. WATER LINES SHALL HAVE A MINIMUM COVER OF 30 INCHES.
21. IF THE WATER OR SANITARY SEWER LINE CROSSES ANY UTILITY WITH LESS THAN 2 FEET OF VERTICAL SEPARATION BETWEEN THE WATER AND SANITARY SEWER, THE TRENCH SHALL BE BACKFILLED WITH CRUSHED STONE AND THE PIPE MATERIAL SHALL BE DUCTILE IRON.
22. THERE SHALL BE A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER LINE CROSSINGS.
23. ANY WORK ON PUBLIC RIGHT OF WAY WILL REQUIRE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE M.U.T.C.D. PREPARATION AND SUBMITTAL OF SAID PLAN TO THE APPROPRIATE AUTHORITY IS THE RESPONSIBILITY OF THE CONTRACTOR.
24. THE COST OF ALL WORK SHOWN IN THE PLANS IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS STATED OTHERWISE.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR TO PUBLIC AND PRIVATE ROADS CAUSED BY HIS ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET WITH PRIVATE ENTITIES, STATE, CITY AND COUNTY OFFICIALS TO AGREE UPON AND RECORD THE CONDITIONS OF THE ROADS BEFORE CONSTRUCTION COMMENCES.
26. THE CONTRACTOR SHALL ENSURE THE CLEANING OF EXISTING STORM DRAIN SYSTEMS THAT ARE TO BE TAKEN TO BY NEW CONSTRUCTION.

26. ALL PAVING WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF ALDOT'S STANDARDS AND SPECIFICATIONS.
27. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH SHORING/STABILIZING EXISTING UTILITIES DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
28. ALL PIPE LABELED AS RCP SHALL BE CLASS 3 REINFORCED CONCRETE PIPE.
29. THE WATER AND SANITARY SEWER LINES AND APPURTENANCES FOR THIS PROJECT SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE WATER WORKS AND SANITARY SEWER BOARD OF THE CITY OF MONTGOMERY.
30. ALL PIPES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
31. ALL DUCTILE IRON PIPING, FITTINGS AND APPURTENANCES SHALL BE POLYETHYLENE WRAPPED PER MWSSB STANDARDS.
32. 3M MARKERS FOR WATER MODEL #1403-XR EVERY 20' AND AT FITTINGS. DO NOT INSTALL MORE THAN 48" DEEP. BALLS SHALL BE INSTALLED AT EVERY JOINT AND EVERY FITTING. WARNING TAPE IS REQUIRED.
33. GRATE INLETS SHALL BE CONSTRUCTED PER THE FLAT GRATE INLET DETAIL ON THE DETAILS SHEETS. GRATE USED IN HARD SURFACES SHALL BE RATED FOR HEAVY DUTY LOADING 6241 GRATE BY U.S. FOUNDRY. GRATE INLETS IN GRASS AREAS SHALL BE U.S. FOUNDRY 4132 FRAME AND 4601 GRATE. THE INLETS CALLED OUT FG-3 AND FG-5A IN THE UTILITY PLAN SHALL BE A U.S. FOUNDRY 4132 ADA GRATE.
34. ALL STORM PIPE CONNECTIONS TO MANHOLES, INLETS, JUNCTION BOXES, ECT. SHALL BE MADE UTILIZING FLEXIBLE BOOTS. THESE BOOTS SHALL BE KOR-N-SEAL #1206 SERIES AS MANUFACTURED BY TRELLEBORG. PIPE SEALS OR PSX DIRECT DRIVE AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION. THESE BOOTS SHALL BE ATTACHED TO THE PIPE WITH GASKETS AND SEALS, TO PROVIDE A WATER TIGHT CONNECTION BETWEEN THE PIPE AND STRUCTURES. ANY PIPE TO STRUCTURE CONNECTIONS NOT CONSTRUCTED USING FLEXIBLE BOOTS SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE. RIGID CONNECTIONS, OF ANY TYPE, SHALL NOT BE PERMITTED. TYLOX WT + CONNECTOR AS MANUFACTURED BY HAMILTON KENT MAY BE UTILIZED. ALL FLEXIBLE BOOTS/CAST IN CONNECTORS SHALL MEET ASTM C923.

EROSION/SEDIMENTATION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE ADEMEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR THIS PROJECT PRIOR TO ANY CONSTRUCTION/DISTURBANCE ACTIVITIES. ALL ROUTINE COSTS ASSOCIATED WITH THIS PERMIT INCLUDING BUT NOT LIMITED TO TRANSFER FEES, PERIODIC INSPECTION FEES, NOTICE OF TERMINATION, ADEMEPA FINES, ETC. SHALL BE THE RESPONSIBILITY OF THE OWNER. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FINES INCURRED AS PART OF THE CONSTRUCTION ACTIVITY OF THE CONTRACTOR AS WELL AS ANY PROFESSIONAL SERVICES ASSOCIATED WITH REPLYING TO NOTICE OF VIOLATION AND/OR CONSENT ORDERS SENT BY ADEM.
2. THESE STANDARD DETAILS SHALL BE APPLICABLE TO ALL LAND DISTURBING ACTIVITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION/ SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH ADEMEPA "BEST MANAGEMENT PRACTICES" AND ADEM NPDES CONSTRUCTION GENERAL PERMIT CONDITIONS. MEASURES SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUMS. THE ENGINEER, OCP, ADEM AND/OR LOCAL AUTHORITIES MAY REQUIRE THE CONTRACTOR TO CLEAN UP SILT/SEDIMENT, REPLACE EROSION CONTROL OR ADD ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME OVER THE COURSE OF THE PROJECT. IF THE MEASURES IN PLACE DO NOT APPEAR TO BE ADEQUATE AND/OR FUNCTIONING PROPERLY, THE COST ASSOCIATED WITH ANY OF THESE CORRECTIVE MEASURES SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR THIS WORK.
4. MAINTENANCE OF SAID STRUCTURES AND/OR MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS ON SITE AT ALL TIMES, AND RECORDS SHALL BE SUBJECT TO INSPECTION AT ANY REASONABLE TIME.
5. ALL BMP'S SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CONDITIONS OUTLINED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, CITY OF MONTGOMERY STANDARDS FOR EROSION AND SEDIMENT CONTROL, THE PLANS AND SPECIFICATIONS. IF CONFLICTS ARISE BETWEEN THESE REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
6. THE CONTRACTOR IS RESPONSIBLE FOR WHATEVER MEASURES ARE NECESSARY TO PRODUCE AND MAINTAIN AN ACCEPTABLE STAND OF GRASS. SAID MEASURES TO INCLUDE (BUT NOT LIMITED TO) WATERING, RE-SEEDING, REGRADING ERODED AREAS, RE-FERTILIZING, ETC.
7. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF PRIVATE STREETS, CITY/STATE STREETS AND ROW AT ALL TIMES. CLEANUP IS REQUIRED DAILY. THE CONTRACTOR SHALL ONLY USE THE CONSTRUCTION ENTRANCE SHOWN IN THE EROSION CONTROL PLAN TO HELP PREVENT MUD FROM TRACKING ONTO THE ROADWAYS.
8. THE CONTRACTOR SHALL KEEP A COPY OF THE "BEST MANAGEMENT PRACTICES"/CBMP ON SITE AT ALL TIMES FOR THE LIFE OF THE PROJECT.
9. ANY AREA THAT HAS BEEN CLEARED OF ITS VEGETATIVE COVER AND WILL REMAIN SO FOR FIFTEEN (15) DAYS OR LONGER WITHOUT APPRECIABLE CONSTRUCTION ACTIVITY MUST BE SEEDDED AND MULCHED WITHIN THIRTEEN (13) DAYS OF BEING DISTURBED. THOSE AREAS SHALL BE SEEDDED AND MULCHED IN ACCORDANCE WITH THE LATEST EDITION OF THE ALDOT CONSTRUCTION SPECIFICATIONS, UTILIZING THE SEED MIXES SHOWN ON THE DETAILS.
10. ADDITIONAL BMP'S MAY BE REQUIRED BY THE ENGINEER, OCP, ADEM AND CITY OF MONTGOMERY OVER THE COURSE OF THE PROJECT TO PREVENT SEDIMENT RELEASE FROM THE SITE. THE COST ASSOCIATED WITH THESE ADDITIONAL BMP'S SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR THIS WORK.
11. THE USE OF FLOC-BLOCKS/ POLYACRYLAMIDE (PAM) OR OTHER SETTLING ENHANCEMENT MATERIALS SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION TO MINIMIZE TURBIDITY AND PREVENT SEDIMENT RELEASE FROM THE SITE. THE ENGINEER, OCP, ADEM AND CITY OF MONTGOMERY MAY REQUIRE ADDITIONAL FLOC-BLOCKS/ PAM IF THE ITEMS BEING USED ARE NOT ADEQUATE TO PREVENT THE RELEASE OF SILT/SEDIMENTATION. THE COST ASSOCIATED WITH THESE ADDITIONAL FLOC-BLOCKS/ PAM SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR THIS WORK. AT A MINIMUM PAM SHALL BE PLACED AT SLOPE PAVED HEADWALLS.
12. THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS IMMEDIATELY AFTER THE COMPLETION OF THE GRADING OPERATION.
13. MAINTENANCE OF ALL EARTH SURFACES, INCLUDING DITCH/SWALE SLOPES, IS THE RESPONSIBILITY OF THE CONTRACTOR. SAID MAINTENANCE TO INCLUDE REGRADING, TEMPORARY GRASSING, MOWING, ETC. AS MAY BE REQUIRED.
14. THE ENGINEER OR THE OCP MAY REQUIRE THE CONTRACTOR TO CLEAN UP SILT/SEDIMENT, REPLACE EROSION CONTROL OR ADD ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME. IF THE MEASURES IN PLACE DO NOT APPEAR TO BE ADEQUATE AND/OR FUNCTIONING PROPERLY, THE COST ASSOCIATED WITH ANY OF THESE CORRECTIVE MEASURES SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR THIS WORK.
15. THE CONTRACTOR SHALL FREQUENTLY REMOVE ANY AND ALL SILT/SEDIMENTATION FROM THE SILT FENCE, DITCHES, CHECK DAMS AND DETENTION AREAS AS PER ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS. AT THE END OF CONSTRUCTION THESE AREAS SHALL BE COMPLETELY FREE OF SILT/SEDIMENTATION AND SHALL BE STABILIZED AS STATED IN THE PLANS AND SPECIFICATIONS.
16. MAINTENANCE OF ALL EARTH SURFACES, INCLUDING DITCH/SWALE SLOPES, IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL AN ACCEPTABLE STAND OF GRASS IS OBTAINED. SAID MAINTENANCE TO INCLUDE REGRADING, TEMPORARY GRASSING, MOWING, ETC. AS MAY BE REQUIRED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES ONCE ACCEPTABLE PERMANENT STABILIZATION IS ACHIEVED. THE OWNER AND OCP/ENGINEER SHALL DETERMINE IF THE PERMANENT STABILIZATION IS ACCEPTABLE PRIOR TO REMOVAL OF ANY TEMPORARY EROSION CONTROL MEASURES.
18. THE CONTRACTOR SHALL INCLUDE IN HIS/HER BID THE INSTALLATION OF A MINIMUM 20 FT X 30 FT GRAVEL CONSTRUCTION ENTRANCE/ EXIT PAD. SEE THE CONSTRUCTION EXIT/ENTRANCE PAD ON DETAILS.
19. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCES AS REQUIRED TO PREVENT SILT/SEDIMENTATION FROM LEAVING THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO WASHING DOWN OF THE CONSTRUCTION ENTRANCE.

20. ALL AREAS OUTSIDE OF THE BUILDING AND PAVEMENT AREA TO RECEIVE A 6-INCH LAYER OF TOPSOIL. TOPSOIL SHALL BE AS FOLLOWS:

- A. FERTILE, FRIABLE, NATURALLY OCCURRING. FREE OF STONES, CLAY, LUMPS, HARDPAN, ROOTS, STUMPS, BRANCES, STICKS AND OTHER DEBRIS LARGER THAN ONE (1) INCH IN ANY DIMENSION; FREE OF NOXIOUS WEEDS, GRASSES, SEEDS, PLANTS, EXTRANEIOUS MATTER AND ANY SUBSTANCE HARMFUL TO PLANT GROWTH. TOPSOIL FROM OPEN FIELDS WILL NOT BE ACCEPTED.
 - B. PH: 5.0 TO 7.0
 - C. ORGANIC MATTER: 5% TO 10%
 - D. SAND: 50% TO 70%
 - E. SILT: LESS THAN 20%
 - F. CLAY: 10% TO 25%
- PERMEABILITY RATE OF 5 X 10 <-3> CENTIMETERS OR GREATER AT 85% COMPACTION.

21. ALL DISTURBED AREAS OUTSIDE THE BUILDING AND PAVEMENT AREA TO BE SEEDDED AND MULCHED WITH THE APPROPRIATE ALDOT MIXTURE.

22. ALL STORM DRAINAGE INLETS AND JUNCTION BOXES TO BE PROTECTED FROM SEDIMENTATION AT ALL TIMES. THESE STRUCTURES SHALL BE PROTECTED WITH SILT SAVERS OR PRE-APPROVED EQUIVALENT PRIOR TO THE FRAME AND GRATE/LID BEING INSTALLED. IF THE CONTRACTOR UTILIZES ROUND BOXES, THEN ROUND FRAME SILT SAVERS SHALL BE USED. ONCE THE FRAME AND GRATE/LID IS PLACED ON THE INLETS, AND JUNCTION BOXES, THE CONTRACTOR SHALL UTILIZE DANDY SACKS OR PRE-APPROVED EQUIVALENT. GUTTER EELS SHALL BE UTILIZED UNTIL ALL VEGETATION HAS BEEN INSTALLED AND "GROWN IN".

23. THE CONTRACTOR SHALL UTILIZE NEW FILTERS ON THE SILT SAVERS AT THE BEGINNING OF THE PROJECT. THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE FILTERS WHENEVER THE ENGINEER, OCP OR CITY OF MONTGOMERY STATES THEY ARE NOT ADEQUATE. THE COST OF THE REPLACEMENT FILTERS SHALL BE INCLUDED IN THE CONTRACTORS BID. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR THE COST OF REPLACING THE FILTERS.

24. THE CONTRACTOR SHALL PERMANENTLY STABILIZE ALL DISTURBED AREAS PRIOR TO FINAL ACCEPTANCE OF WORK. PERMANENT STABILIZATION SHALL CONSIST OF FINE GRADING TO REMOVE ALL REELS, PERMANENT SEEDING SHALL BE PLACED ALONG WITH STRAW, AND SAID PERMANENT GRASSING SHALL HAVE TAKEN ROOT AND BE ESTABLISHED IN A MANNER TO PREVENT EROSION REELS FROM FORMING. THE CONTRACTOR SHALL RESEED, WATER, REDRESS WASHES, CUT TEMPORARY VEGETATION OR ANY PERFORM ANY OTHER WORK NECESSARY TO ESTABLISH PERMANENT VEGETATION. ALL COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED THE FINAL BID PRICE.

25. TEMPORARY STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY WHENEVER WORK TOWARD PROJECT COMPLETION AND FINAL STABILIZATION OF ANY PORTION OF THE SITE HAS TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING THIRTEEN (13) CALENDAR DAYS. THOSE AREAS SHALL BE SEEDDED AND MULCHED IN ACCORDANCE WITH THE LATEST EDITION OF THE ALDOT CONSTRUCTION SPECIFICATIONS.

26. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT (PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS) SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS.

27. THE CONTRACTOR SHALL HAVE A WATER TRUCK AVAILABLE AT ALL TIMES TO HELP KEEP THE DUST DOWN ON THE SITE.

28. THE CONTRACTOR SHALL PROVIDE A FACILITY ON SITE FOR SANITARY WASTE DURING CONSTRUCTION AND SHALL ALSO PROVIDE A CONTAINER CAPABLE OF HOLDING CONSTRUCTION MATERIAL AND DEBRIS. ALL CONSTRUCTION WASTE AND DEBRIS AND TEMPORARY BMP'S ARE TO BE REMOVED FROM THE SITE ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED AND SHALL BE DISPOSED OF AT A LANDFILL CAPABLE OF HANDLING SAID DEBRIS.

GRADING NOTES

1. THE CONTRACTOR SHALL MAKE SURE THAT THE CROSS SLOPE OF THE NEW SIDEWALKS DOES NOT EXCEED 2.00%. IF THE CROSS SLOPE IS CONSTRUCTED AT A SLOPE STEEPER THAN 2.00% THEN HIS/HE SHALL BE REQUIRED TO REMOVE AND REPLACE THE SIDEWALK AT HIS/HER EXPENSE.
2. THE CONTRACTOR SHALL GRADE THE SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND CONFIGURATION OF DOORS, WALKS, ETC. WITH THE ARCHITECTURAL PLANS.
4. ALL DEMOLITION DEBRIS AND EXCESS MATERIAL GENERATED FROM GRADING OPERATIONS TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE NORTH MONTGOMERY LANDFILL FOR THIS PROJECT. THE CITY WILL WAIVE ALL TIPPING FEES FOR C&D MATERIAL IF DISPOSED OF AT THE NORTH MONTGOMERY LANDFILL.
5. ALL GRADING OPERATIONS TO BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE GEOTECHNICAL CONSULTANT ON-SITE AT ALL TIMES DURING GRADING OPERATIONS.
6. THE CONTRACTOR SHALL INSTALL SPILL OUT CURB & GUTTER WHERE REQUIRED BY THE GRADES.
7. ALL WORK REQUIRED TO COMPACT, MOISTEN, DRY, CONDITION, MODIFY, OR IMPROVE ANY PORTION OF THE SUBGRADE, AND/OR BUILDING PADS, AS DIRECTED BY THE PLANS AND SPECIFICATIONS OR THE ENGINEER, IS PART OF THE LUMP SUM BID.
8. ALL WORK ASSOCIATED WITH TOPSOIL STRIPPING, INCLUDING, BUT NOT LIMITED TO: STRIPPING TO SPREAD, STRIPPING TO STOCKPILE, SPREADING FROM STOCKPILE, TOPSOIL HAUL-OFF, SEEDBED PREPARATION, ETC., AS DIRECTED BY THE PLANS AND SPECIFICATIONS OR THE ENGINEER IS PART OF THE LUMP SUM BID.
9. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT ATTACHED TO THE BID DOCUMENTS. SAID REPORT IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE. NEITHER THE ENGINEER NOR THE REPORT PREPARER WARRANTS THE COMPLETE AND TOTAL ACCURACY OF THE REPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE EXISTING SOIL CONDITIONS.
10. IF THE PAVEMENT, STONE OR SLAB IS NOT CONSTRUCTED IMMEDIATELY AFTER THE INITIAL SUBGRADE PREPARATION, THE CONTRACTOR SHALL BE REQUIRED TO RESTORE THE SUBGRADE PRIOR TO THE PLACEMENT OF THE PAVEMENT, STONE OR SLAB. THE COST OF THE SUBGRADE RESTORATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
11. THE CONTRACTOR SHALL REFER TO THE STRUCTURAL DRAWINGS FOR DETAILS ON THE BUILDING SLAB.
12. ALL SPOT ELEVATIONS ARE EDGE OF PAVEMENT ELEVATIONS UNLESS STATED OTHERWISE.
13. THE CONTRACTOR SHALL CONSTRUCT THE SLOPES WITH THE EQUIPMENT TRACKS TRAVERSING UP AND DOWN THE SLOPE AS SHOWN ON THE DETAILS.
14. FILL MATERIAL USED ON-SITE SHALL BE CLEAN, NON-SATURATED, NON-ORGANIC SOIL AS APPROVED BY THE GEOTECHNICAL CONSULTANT.
15. BURNING WILL NOT BE ALLOWED ON-SITE. DEBRIS SHALL BE HAULED OFFSITE AND DISPOSED OF IN A LEGAL MANNER.
16. THE CONTRACTOR SHALL COORDINATE THE SUBGRADE ELEVATION, SLAB THICKNESS, AND STONE THICKNESS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
17. ALL DISTURBED AREAS WITH THE EXCEPTION OF BUILDING, PAVEMENT, AND SIDEWALKS SHALL RECEIVE A 6" LAYER OF TOPSOIL. ALL EXCESS TOPSOIL SHALL BE HAULED OFF-SITE. THE CONTRACTOR SHALL HAUL IN TOPSOIL IF REQUIRED.
18. THE ENGINEER DOES NOT GUARANTEE THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE. THE CONTRACTOR SHALL HAUL-IN OR HAUL-OFF AS REQUIRED TO ACHIEVE THE PLAN GRADES.

DEVELOPMENT PLAN NOTES

1. BEFORE WORK BEGINS WITHIN RIGHT-OF-WAY (ROW), CONTACT CITY ENGINEERING CHIEF CITY INSPECTOR CHARLIE HARRIS 48 HOURS PRIOR TO CONSTRUCTION AT (334) 354-6127.
2. ENGINEERING DEPARTMENT SHALL NOT ISSUE A C.O. UNTIL THE AS-BUILT EVALUATION AND CERTIFICATION DOCUMENTATION IS SUBMITTED AND APPROVED BY THE CITY.
3. ALL UTILITY CONNECTIONS MADE WITHIN EXISTING CITY STREETS MUST BE BORED UNLESS OTHERWISE DETERMINED BY CITY MAINTENANCE DEPARTMENT (625-2880). AN APPROVAL LETTER FROM MAINTENANCE WILL BE REQUIRED BEFORE DEVELOPMENT PLAN CAN BE APPROVED BY ENGINEERING.
4. ANY STREET CUTS REQUIRE A CITY STANDARD PAVEMENT PATCH AND 50 FOOT LONG, FULL STREET WIDTH ASPHALT OVERLAY.
5. BEFORE ANY STREET CUTS, CONTACT DONALD THOMAS WITH CITY MAINTENANCE AT 850-3727.
6. DIRECT ALL STORMWATER, INCLUDING ROOF DRAINS, TO STREET ROW OR TO DRAINAGE EASEMENT.
7. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ADEQUATE EROSION/SEDIMENTATION CONTROL DURING ALL PHASES OF CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF CITY STREETS AND ROW. CLEAN UP IS REQUIRED DAILY.
9. CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF DRIVEWAYS, SIDEWALK AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.
10. ANY CHANGES OR REVISIONS MADE TO SITE PLANS MUST BE SUBMITTED FOR APPROVAL.
11. ALL AREAS OF ROW THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SOD, ASPHALT OR CONCRETE, WHICHEVER ENGINEERING DEPARTMENT DEEMS NECESSARY.
12. CONVERT ALL GRATE INLETS TO "S" TYPE INLETS.
13. ALL EXISTING GRANITE CURBS ADJACENT TO THE PROPERTY SHALL BE REMOVED AND REPLACED WITH 24" COMBINATION CURB AND GUTTER. THE NEW CURB LINE SHALL MATCH THE EXISTING CURB LINE. ALL ASPHALT ADJACENT TO THE PROPOSED CURB AND GUTTER SHALL BE SAW CUT THE FULL DEPTH OF THE ASPHALT TO PROVIDE A CLEAN EDGE. SHOULD THE ASPHALT BE TORN OR A ROUGH EDGE CREATED, THE CONTRACTOR SHALL BE REQUIRED TO OVERLAY THE FULL STREET WIDTH AT HIS OWN EXPENSE. THIS DETERMINATION SHALL BE MADE BY THE CITY ENGINEERING DEPARTMENT.
14. PROVIDE HANDICAP RAMP'S AT ALL SIDEWALK AND COMMERCIAL DRIVEWAY INTERSECTIONS WITH RED BRICK TRUNCATED DOMES. THE RAMP SECTION SHALL BE POURED WITH A 4 INCH MONOLITHIC CONCRETE BASE LAYER ALLOWING FOR A SAND LAYER THAT SHALL SEAT THE BRICKS AND FINISHED WITH A POLYMER GROUT.
15. EXISTING DRIVEWAYS, SIDEWALKS, AND/OR CURB AND GUTTER ALONG THE RIGHT-OF-WAY OF THE PROJECT THAT ARE FOUND TO BE IN POOR CONDITIONS, SHALL BE REPLACED AS PART OF THE PROJECT DEVELOPMENT AT THE COST OF THE OWNER AS DETERMINED BY CITY REPRESENTATIVE.

Barganier
Davis
Williams
Architects
Associated



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Montgomery, AL 36104

phone: 334.834.2038
www.bdwarchitects.com



03.12.23

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-22-2023

MGM Project No. SP-5-21

BDW Project No. 2021-118

Drawn By: BDW

Date:

Scale: AS NOTED

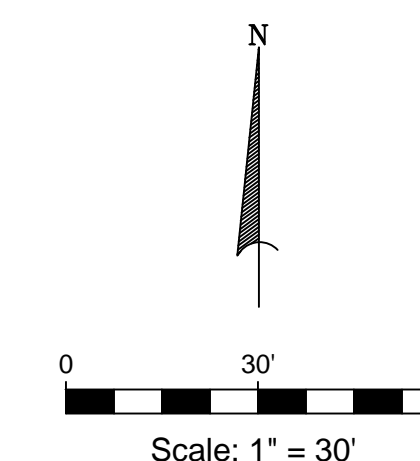
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PROJECT
NOTES

Sheet No.

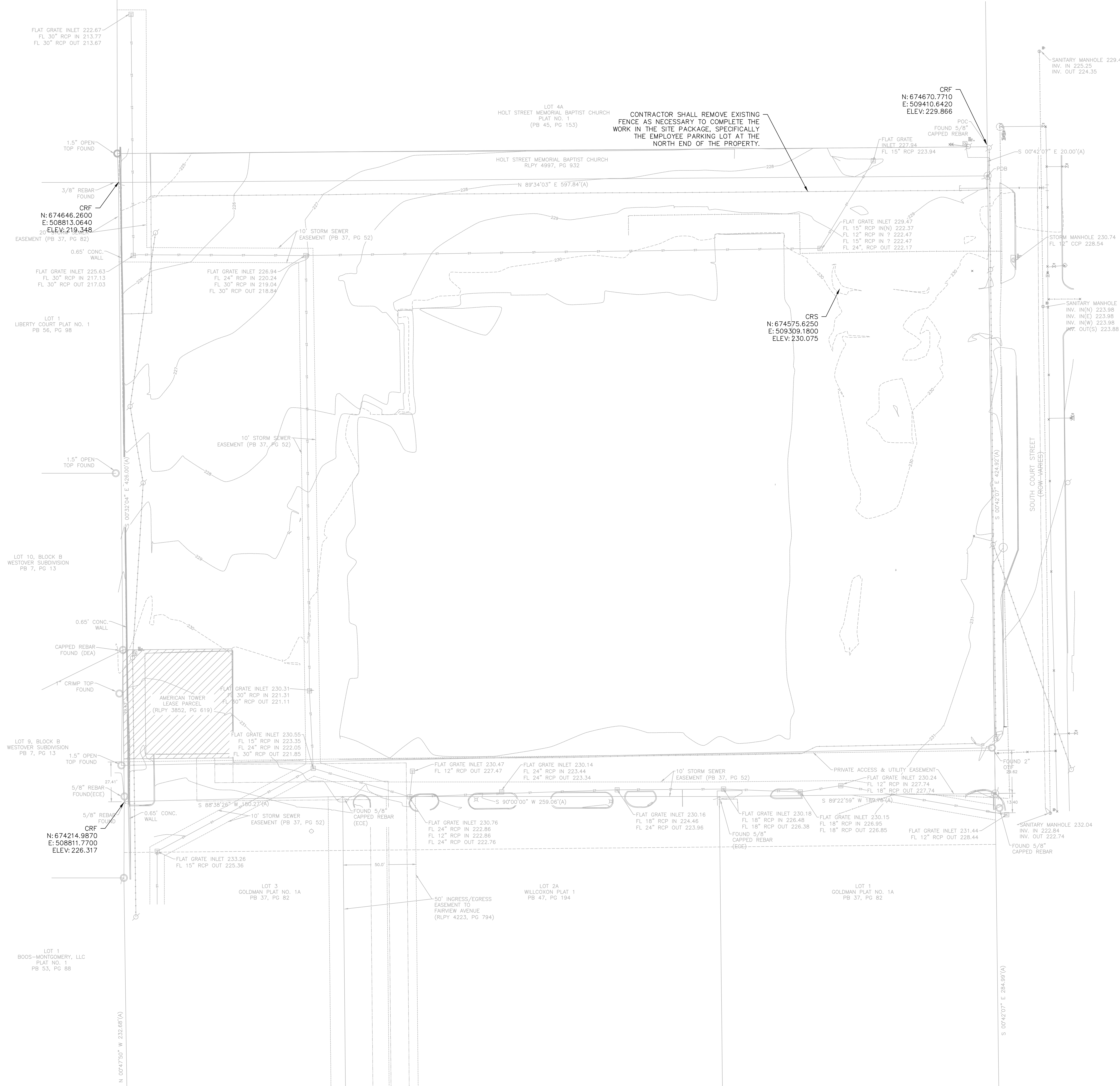
C-001

CONFORMANCE
DOCUMENTS



LEGEND

- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- SIGN
- ⊗ WATER METER
- ⊗ WATER VALVE
- ⊗ LIGHT POLE
- ⊗ CABLE TV BOX
- ⊗ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE — OVERHEAD ELECTRIC
- S — UNDERGROUND SEWER LINE
- W — UNDERGROUND WATERLINE
- G — UNDERGROUND GAS LINE
- ST — UNDERGROUND STORM PIPE
- 197 --- EX. MAJOR CONTOUR
- 190 --- EX. MINOR CONTOUR



CONTRACTOR SHALL REMOVE EXISTING FENCE AS NECESSARY TO COMPLETE THE WORK IN THE SITE PACKAGE, SPECIFICALLY THE EMPLOYEE PARKING LOT AT THE NORTH END OF THE PROPERTY.

NOTE: THE EXISTING CONDITIONS SHOWN HERE WERE THE CONDITIONS OF THE SITE PRIOR TO THE DEMOLITION PACKAGE. PRIOR TO BEGINNING WORK ON THE SITE PACKAGE, THE CONTRACTOR SHALL PERFORM AN AS-BUILT SURVEY OF THE SITE. THE PRICE OF THE AS-BUILT SURVEY SHALL BE INCLUDED IN THE BID. ANY DISCREPANCIES SHALL BE COMMUNICATED TO THE OWNER AND ENGINEER SO THAT IT CAN BE ADJUSTED IN THE CONSTRUCTION DOCUMENTS.

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-22-2023

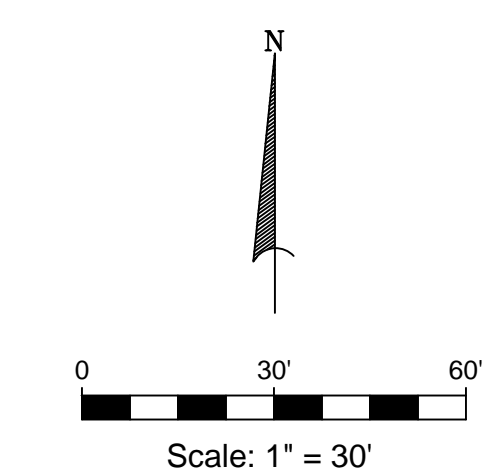
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 BDW Project No. 2021-118
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EXISTING
CONDITIONS

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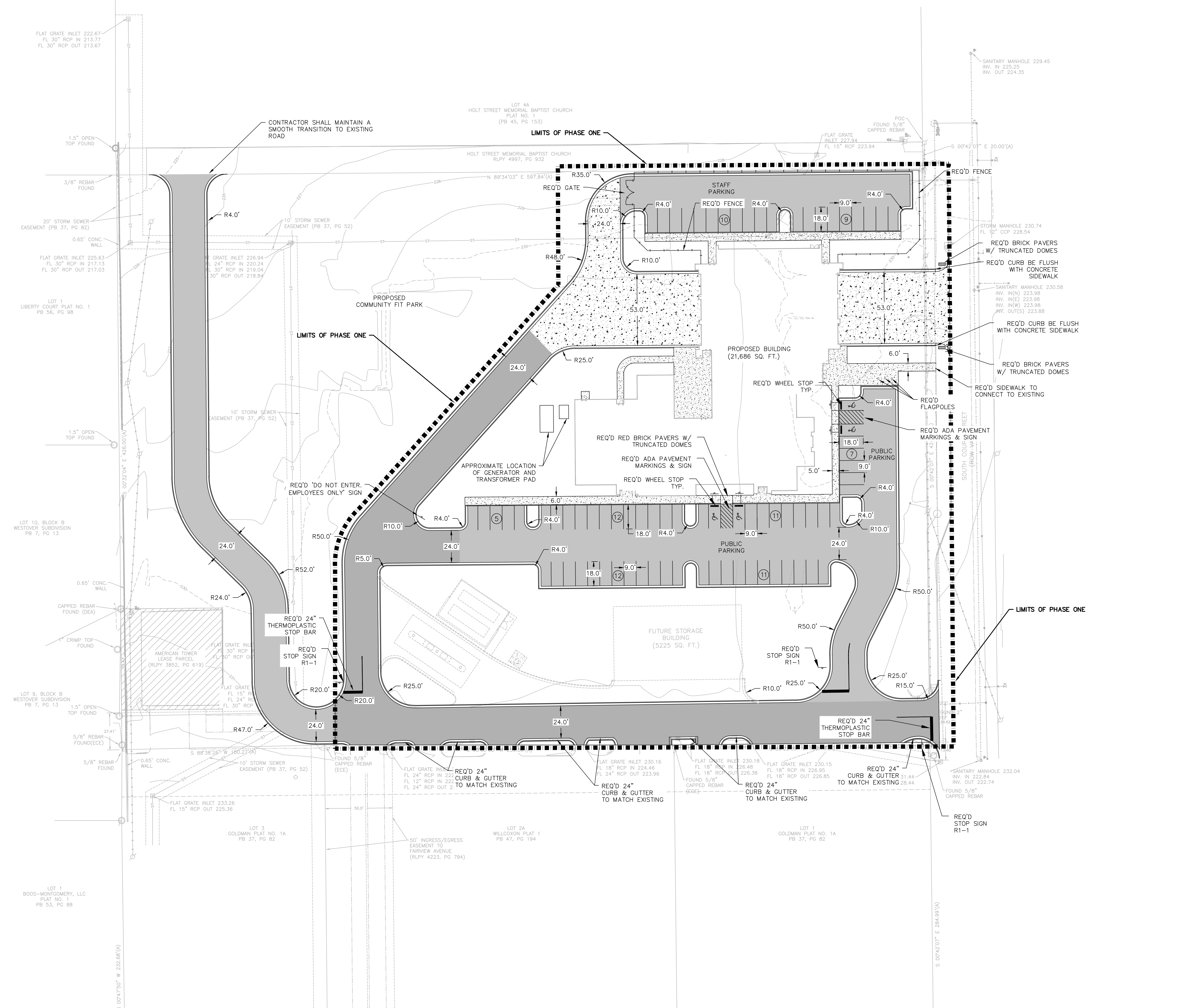
C-002

CONFORMANCE
DOCUMENTS



LEGEND

- POWER POLE
- ← GUY WIRE
- FIRE HYDRANT
- SIGN
- ⊗ WATER METER
- ⊗ WATER VALVE
- ⊗ LIGHT POLE
- ⊗ CABLE TV BOX
- ⊗ EX. STORM MANHOLE
- EXISTING IRON PIN
- 0E— OVERHEAD ELECTRIC
- S— UNDERGROUND SEWER LINE
- W— UNDERGROUND WATERLINE
- G— UNDERGROUND GAS LINE
- ST— UNDERGROUND STORM PIPE
- 197— EX. MAJOR CONTOUR
- 190— EX. MINOR CONTOUR
- LIGHT DUTY PAVING
- HEAVY DUTY PAVING
- HEAVY DUTY CONCRETE PAVING
- CONCRETE SIDEWALK
- LIMITS OF PHASE ONE



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

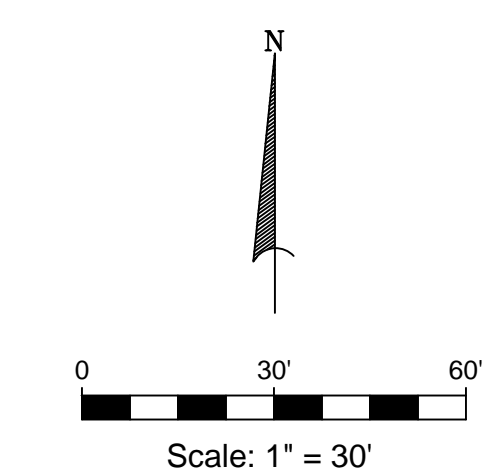
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-22-2023

MGM Project No. SP-5-21
 BDW Project No. 2021-118
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SITE PLAN -
BASE BID

Sheet No.
C-101

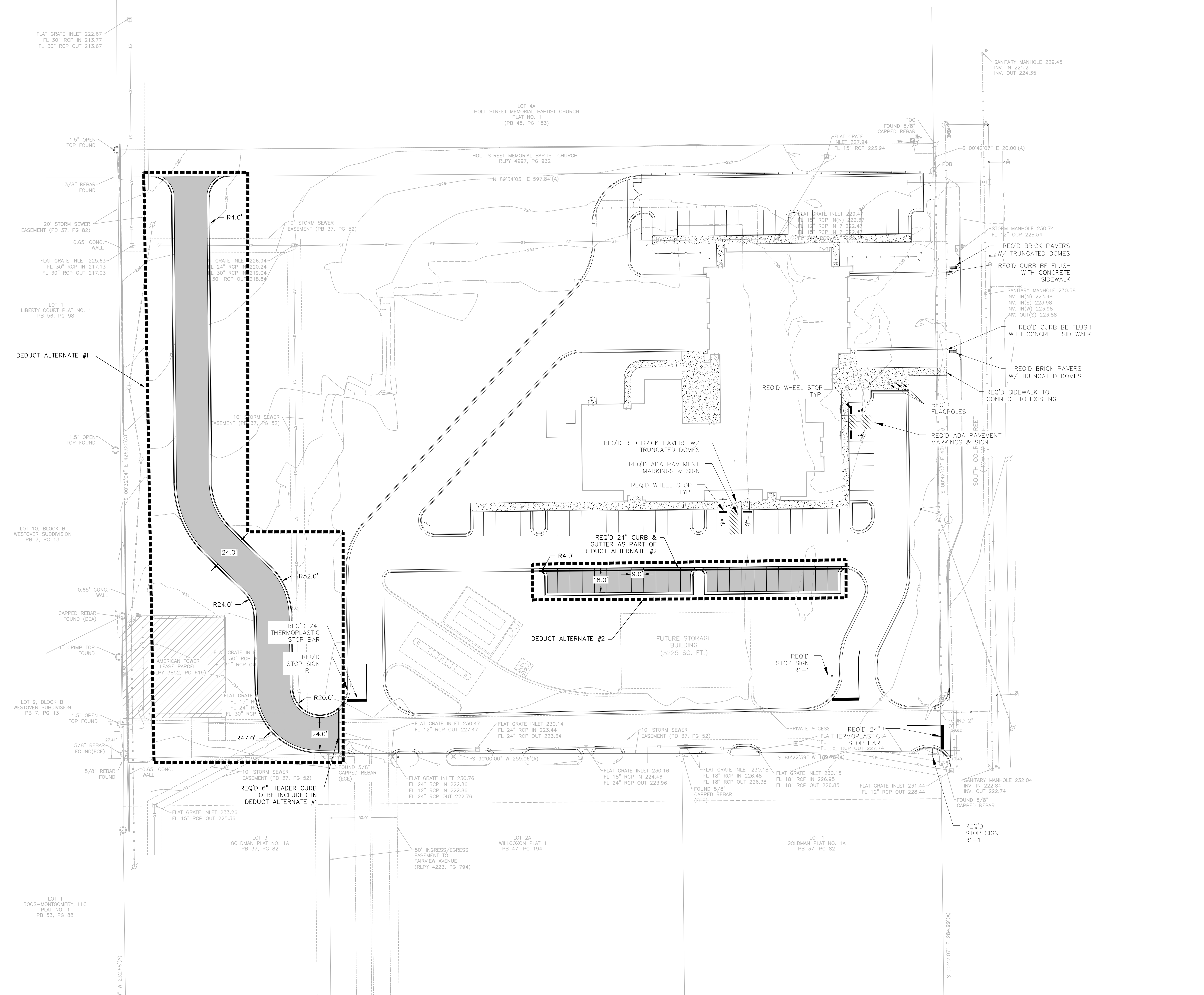
CONFORMANCE DOCUMENTS



LEGEND

- POWER POLE
- ← GUY WIRE
- FIRE HYDRANT
- ⊕ SIGN
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ LIGHT POLE
- ⊕ CABLE TV BOX
- ⊕ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE — OVERHEAD ELECTRIC
- S — UNDERGROUND SEWER LINE
- W — UNDERGROUND WATERLINE
- G — UNDERGROUND GAS LINE
- ST — UNDERGROUND STORM PIPE
- 197 — EX. MAJOR CONTOUR
- 190 — EX. MINOR CONTOUR
- LIGHT DUTY PAVING
- HEAVY DUTY PAVING
- HEAVY DUTY CONCRETE PAVING
- CONCRETE SIDEWALK
- LIMITS OF DEDUCT ALTERNATES

NOTE: PAVING OPERATIONS SHALL BE INCLUDED AS A BASE BID ITEM. A DEDUCT ALTERNATE #3 SHALL DEDUCT BOTH THE WEARING AND BINDER SURFACES.



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-22-2023

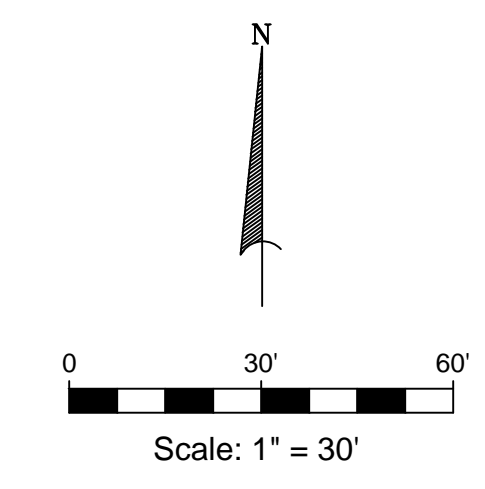
MGM Project No. SP-5-21
 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED
 Drawing Title:

**SITE PLAN -
DEDUCT
ALTERNATES**

Sheet No.

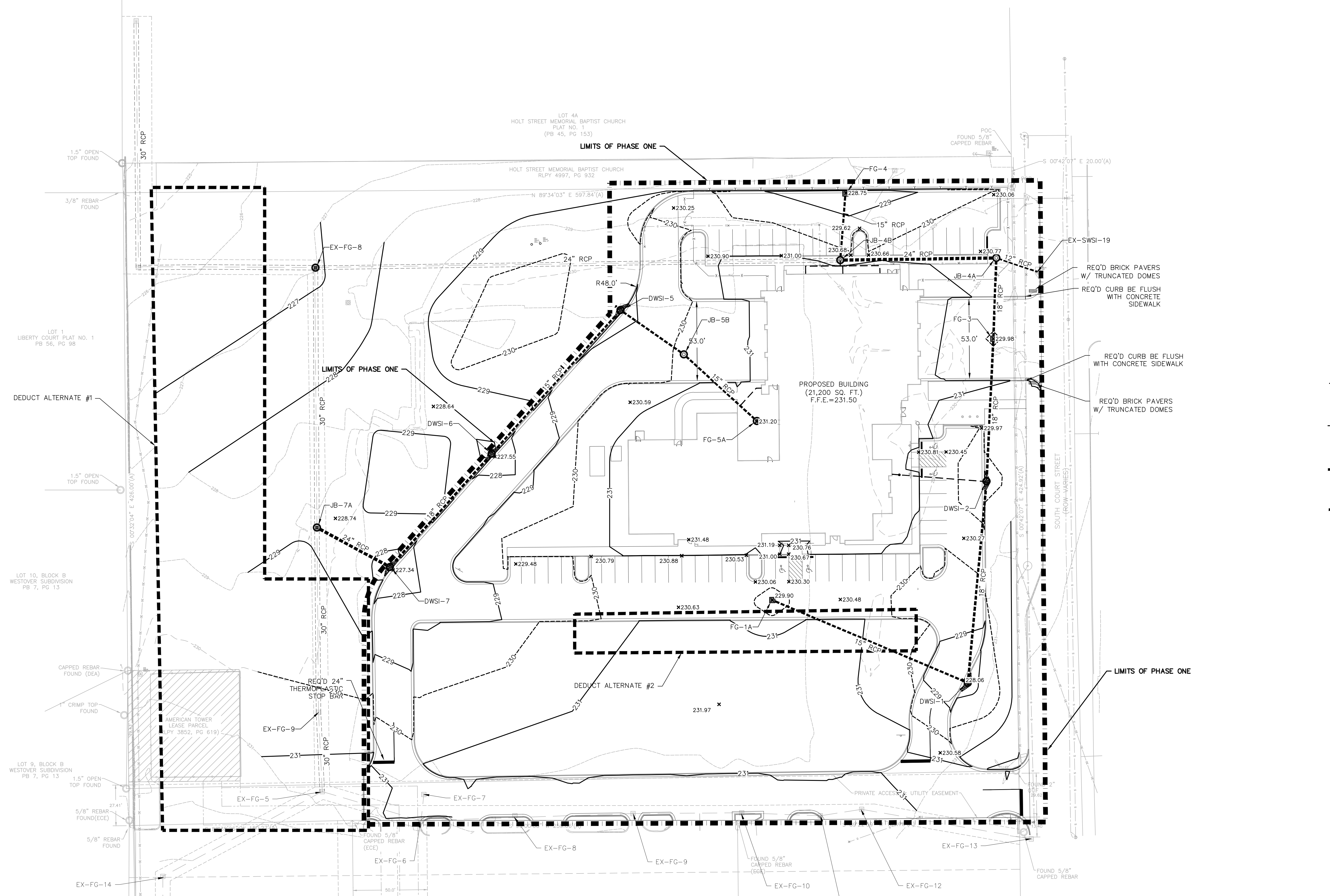
C-102

CONFORMANCE
DOCUMENTS



LEGEND

- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- SIGN
- ⊗ WATER METER
- ⊗ WATER VALVE
- ⊗ LIGHT POLE
- ⊗ CABLE TV BOX
- ⊗ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE — OVERHEAD ELECTRIC
- S — UNDERGROUND SEWER LINE
- W — UNDERGROUND WATERLINE
- G — UNDERGROUND GAS LINE
- ST — UNDERGROUND STORM PIPE
- 197 — EX. MAJOR CONTOUR
- 190 — EX. MINOR CONTOUR
- 248 — PROPOSED MINOR CONTOUR
- 250 — PROPOSED MAJOR CONTOUR
- — — PROPOSED STORM PIPE
- — — LIMITS OF PHASE ONE



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

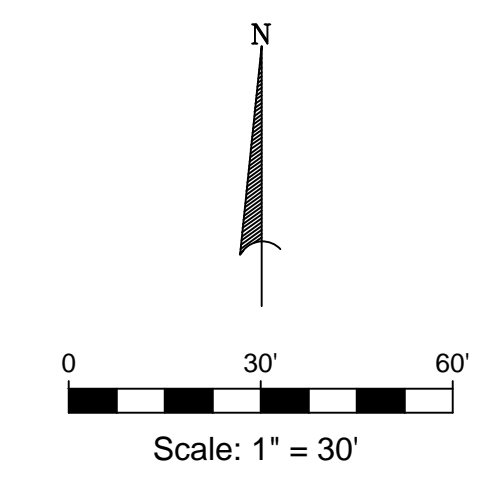
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-23-2023

MGM Project No. SP-5-21
 BDW Project No. 2021-118
 Drawn By: BDW
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 Scale: AS NOTED
 Drawing Title:

**GRADING PLAN -
DEDUCT
ALTERNATES**

Sheet No:
C-202

CONFORMANCE
DOCUMENTS



LEGEND

- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- SIGN
- ⊗ WATER METER
- ⊗ WATER VALVE
- ⊗ LIGHT POLE
- ⊗ CABLE TV BOX
- ⊗ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE— OVERHEAD ELECTRIC
- S— UNDERGROUND SEWER LINE
- W— UNDERGROUND WATERLINE
- G— UNDERGROUND GAS LINE
- ST— UNDERGROUND STORM PIPE

- PROPOSED STORM PIPE
- - - LIMITS OF PHASE ONE
- ⊗ PROPOSED DOUBLE WING INLET
- ⊗ PROPOSED SINGLE WING INLET
- ⊗ PROPOSED FLAT GRATE INLET
- ⊗ PROPOSED JUNCTION BOX
- ⊗ PROPOSED ADA GRATE INLET

NOTE: FG-3 AND FG-5A SHALL HAVE ADA GRATES AS SPECIFIED IN THE PROJECT NOTES.

ALL MAIN ON PUBLIC SIDE OF RIGHT-OF-WAY SHALL BE C900 PVC.

RESTRAINT TABLE

Fitting	Material	Size	Restraint Length (feet)	
			Horizontal	Vertical
Tee Branch	DI	8"x2"	10	-
Tee Branch	DI	8"x2"	20	-
Tee Branch	DI	8"x8"	70	-
Tee Branch	DI	8"x8"	20	-
Cap (End)	DI	8"	86	-
22.5 Bend	DI	8"	12	18
45 Bend	DI	8"	24	36

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-22-2023

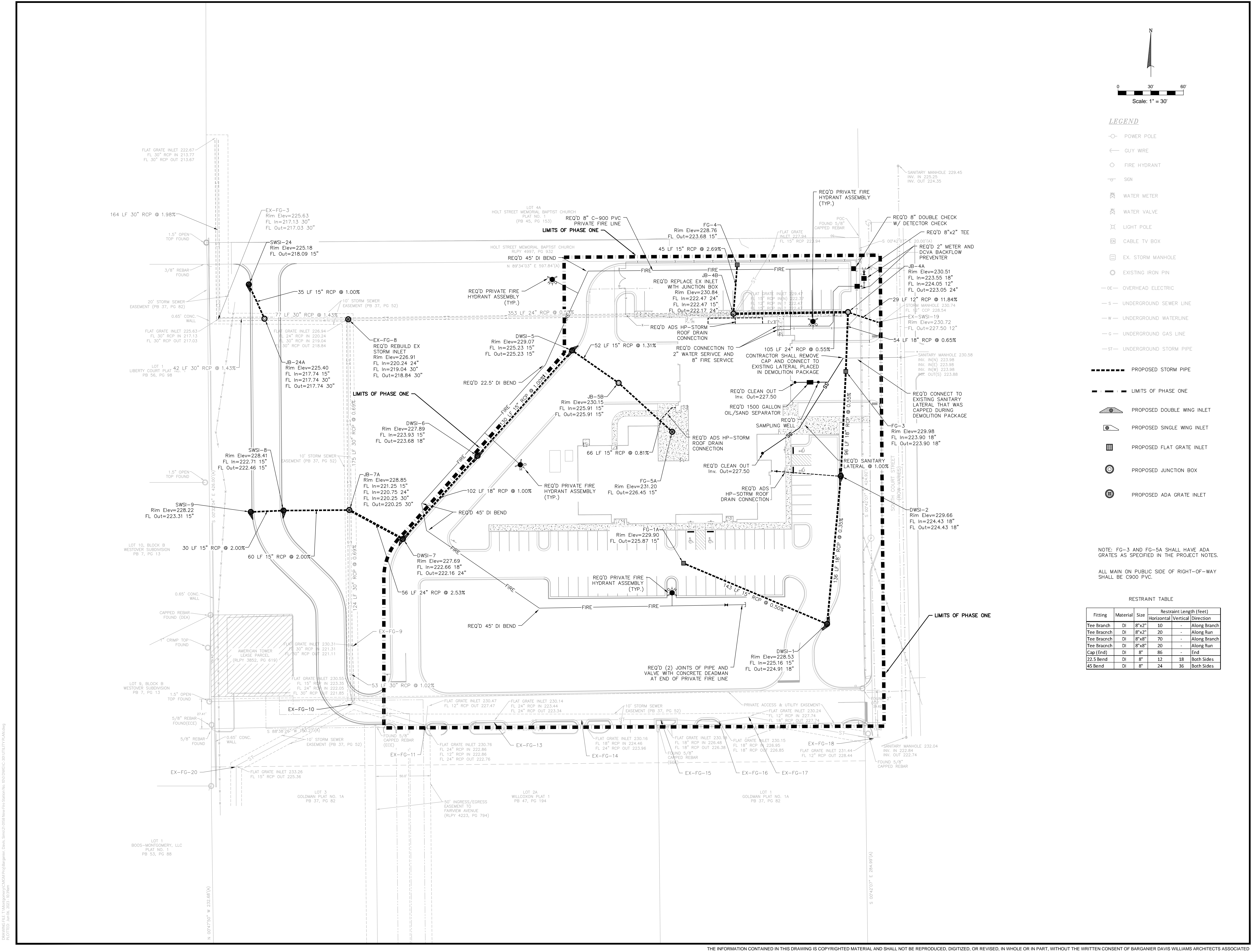
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 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED
 Drawing Title:

UTILITY PLAN - BASE BID

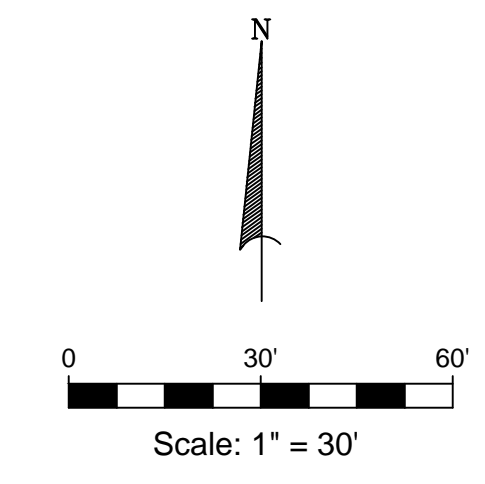
Sheet No.

C-301

CONFORMANCE DOCUMENTS



DRAWN BY: P. G. G. (P. G. G. ARCHITECTS) CHECKED BY: P. G. G. (P. G. G. ARCHITECTS) DATE: 02/03/2023
 PLOTTED: 02/03/2023 10:00 AM



LEGEND

- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- SIGN
- ⊗ WATER METER
- ⊗ WATER VALVE
- ⊗ LIGHT POLE
- ⊗ CABLE TV BOX
- ⊗ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE— OVERHEAD ELECTRIC
- S— UNDERGROUND SEWER LINE
- W— UNDERGROUND WATERLINE
- G— UNDERGROUND GAS LINE
- ST— UNDERGROUND STORM PIPE
- PROPOSED STORM PIPE
- - - LIMITS OF PHASE ONE
- PROPOSED DOUBLE WING INLET
- PROPOSED SINGLE WING INLET
- ⊗ PROPOSED FLAT GRATE INLET
- ⊗ PROPOSED JUNCTION BOX
- LIMITS OF DEDUCT ALTERNATES

NOTE: FG-3 AND FG-5A SHALL HAVE ADA GRATES AS SPECIFIED IN THE PROJECT NOTES.

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	1	Construction Documents	02-03-2023
	2	Conformance Documents	05-22-2023

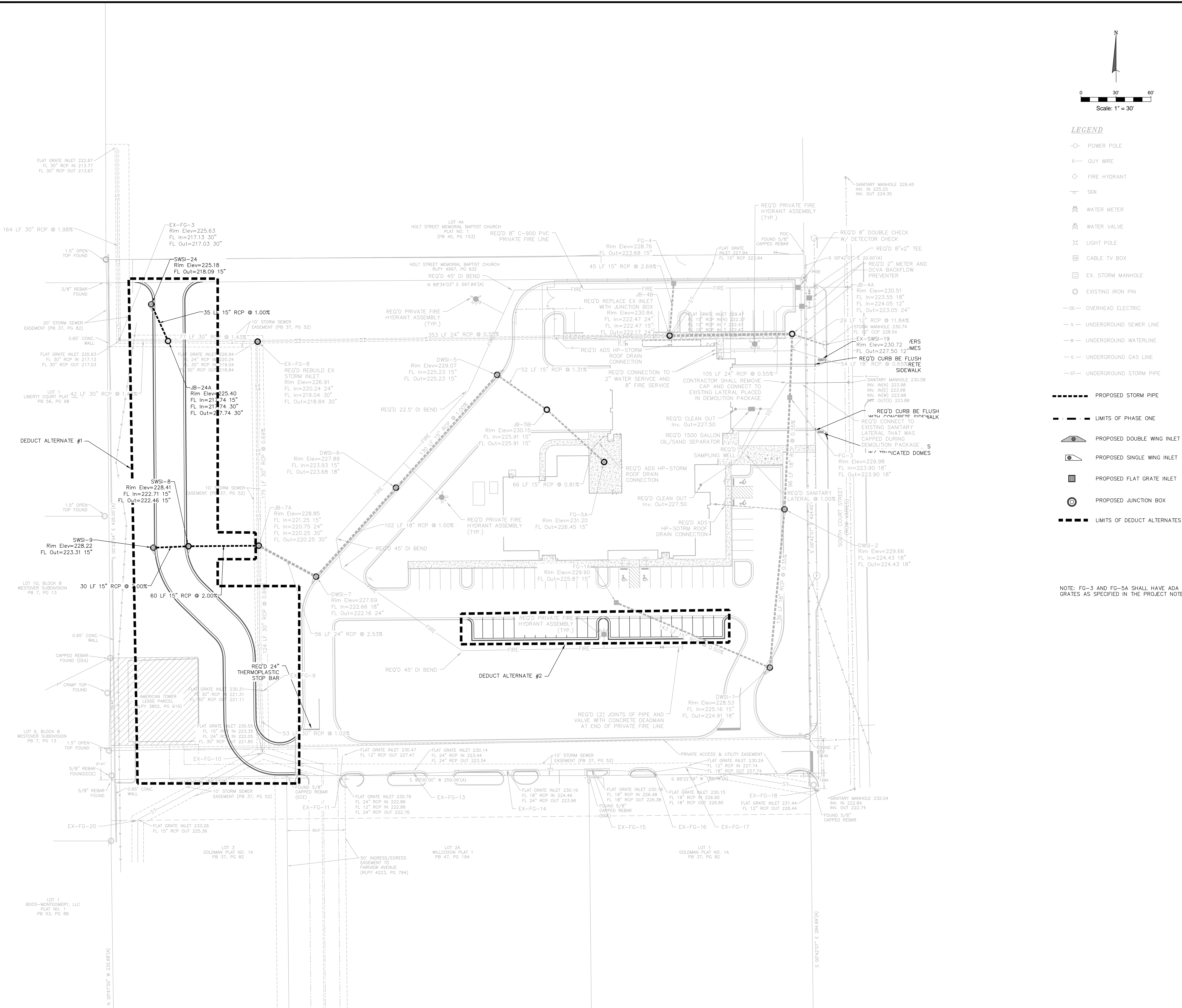
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 BDW Project No. 2021-118
 Drawn By: BDW
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UTILITY
 PLAN - DEDUCT
 ALTERNATES

Sheet No.

C-302

CONFORMANCE
 DOCUMENTS



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 PLOTTER: HP DesignJet T1100e

SCALE:
HORIZONTAL 1"=50'
VERTICAL 1"=5'

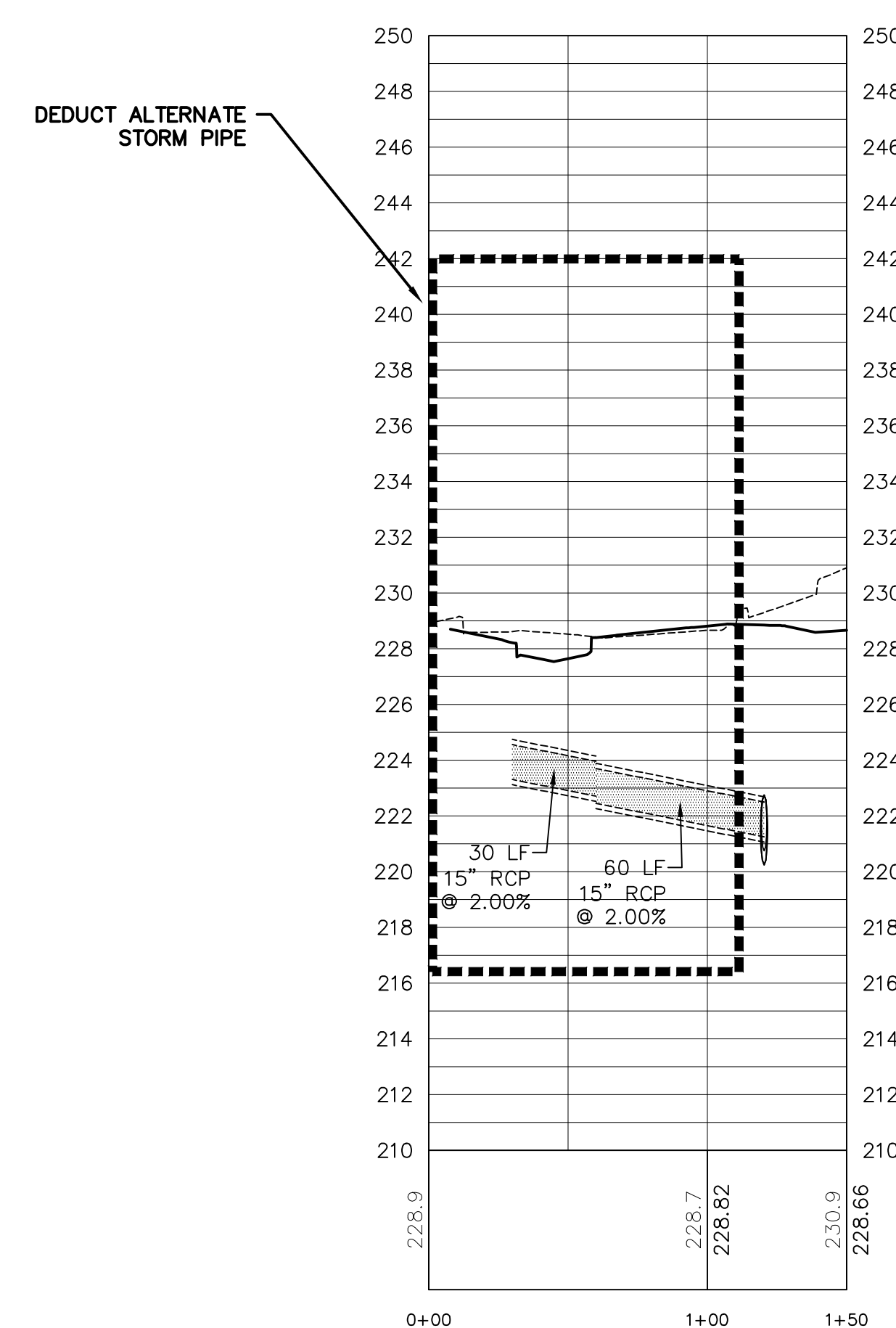
Barganier
Davis
Williams
Architects
Associated



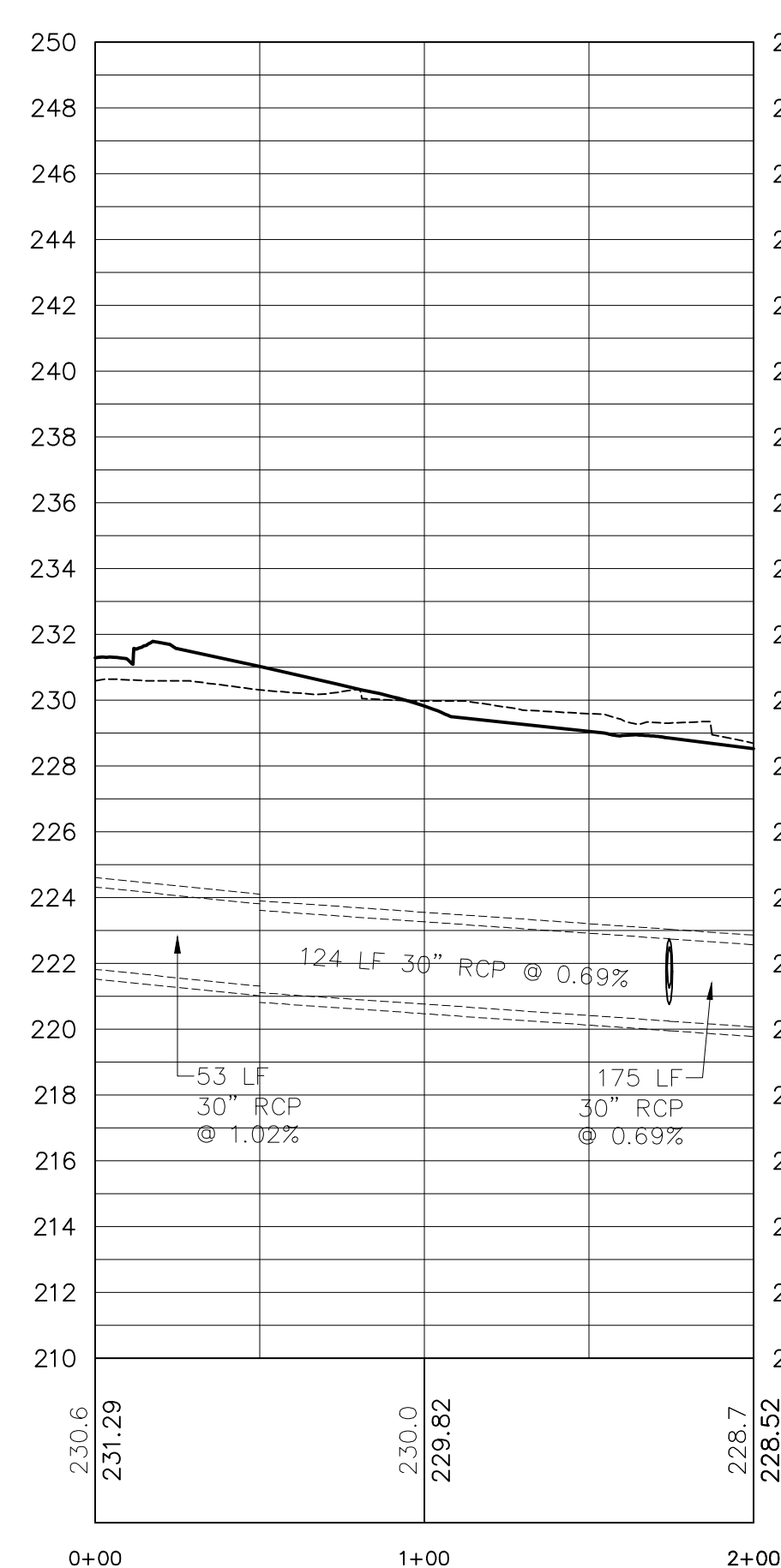
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Montgomery, AL 36104
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www.bdwarchitects.com



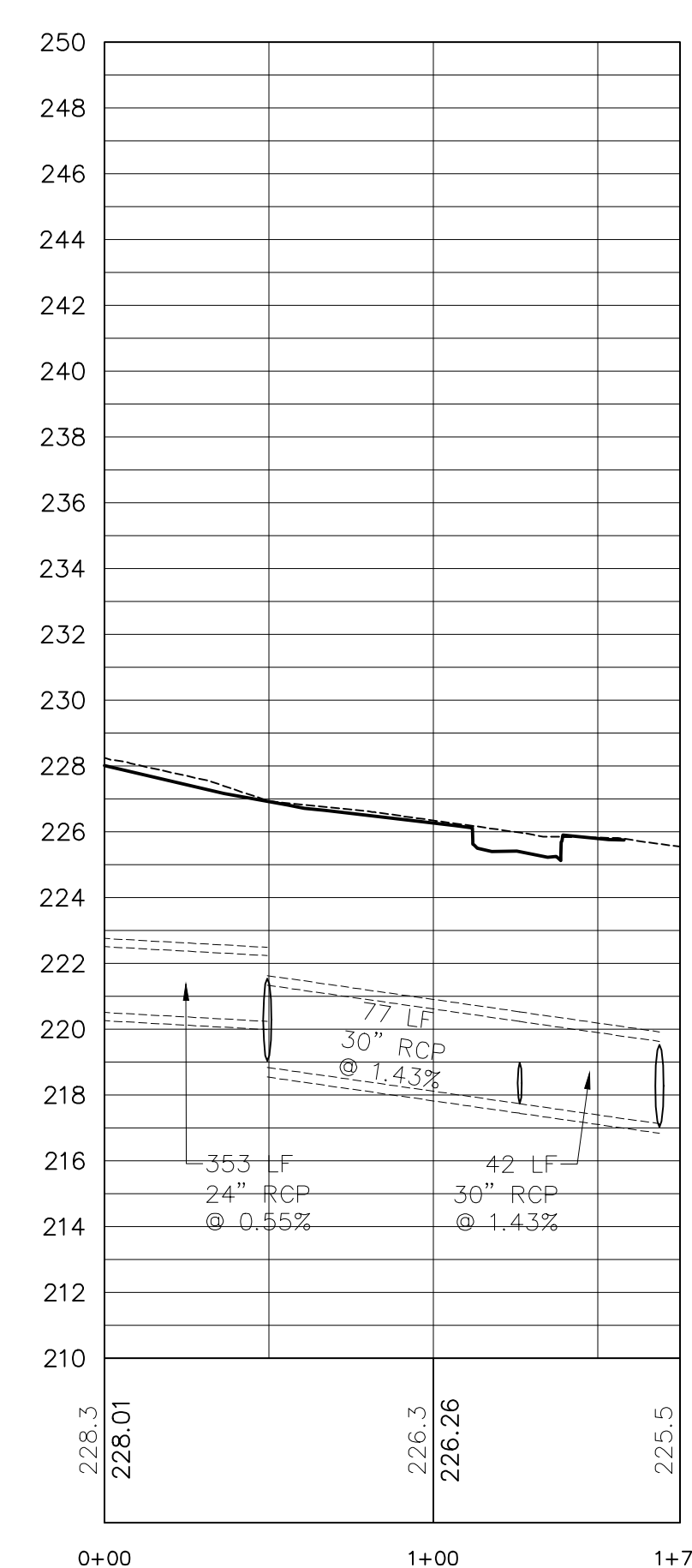
NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104



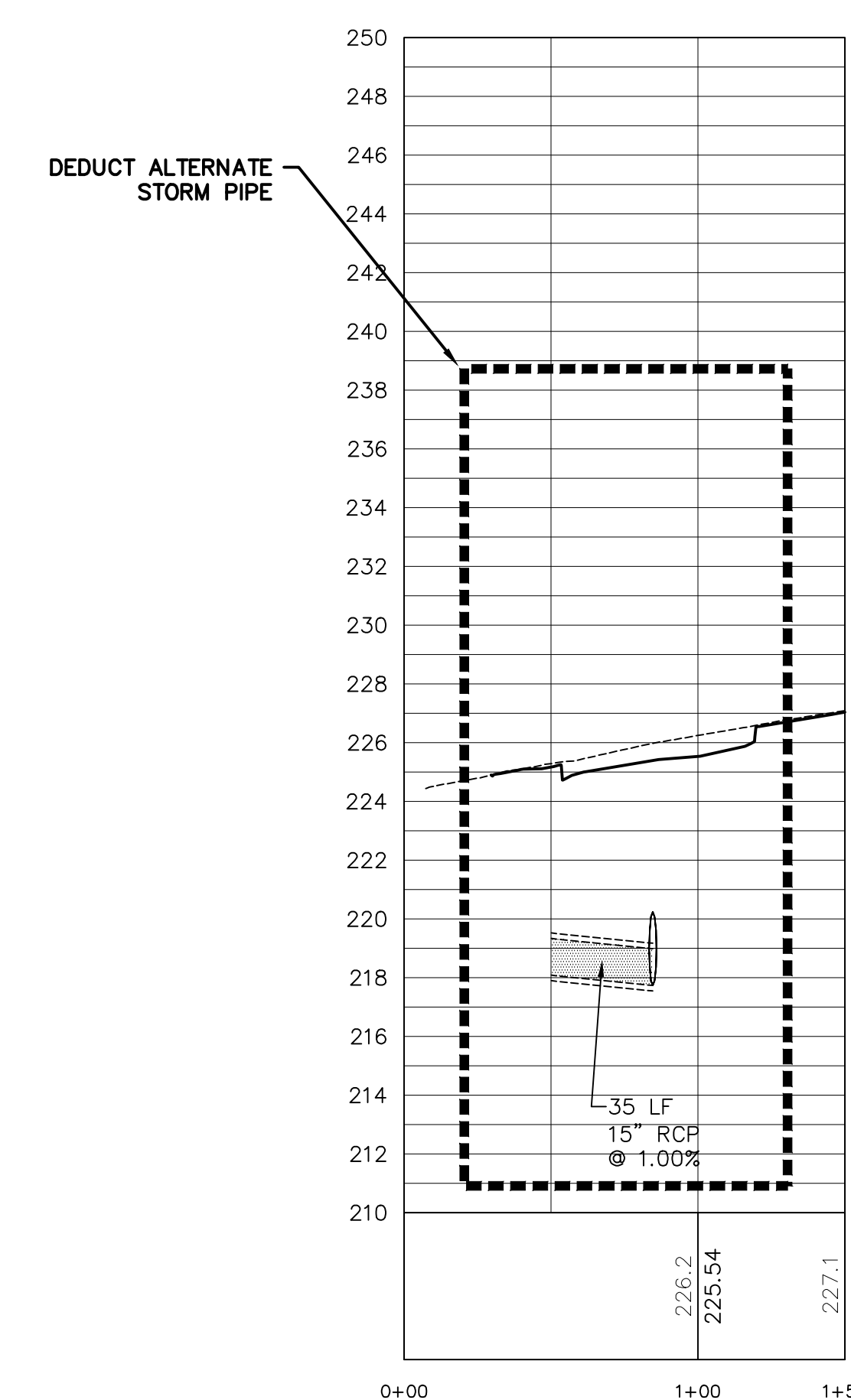
DEDUCT ALTERNATE SWSI-9 TO FG-7A



EX-FG-9 TO JB-7A



EX-FG-8 TO JB-10A



DEDUCT ALTERNATE SWSI-10 TO JB-10A

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-23-2023

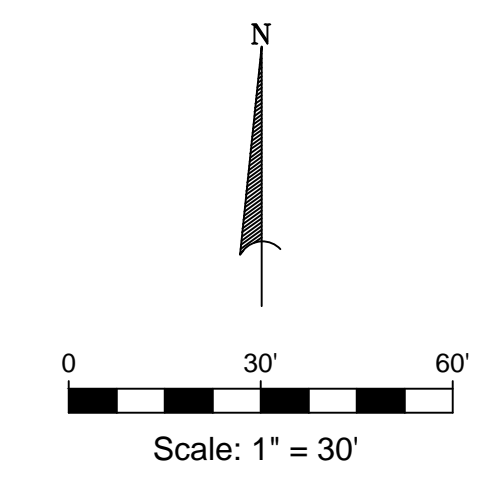
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

STORM
PROFILES

Sheet No:
C-402

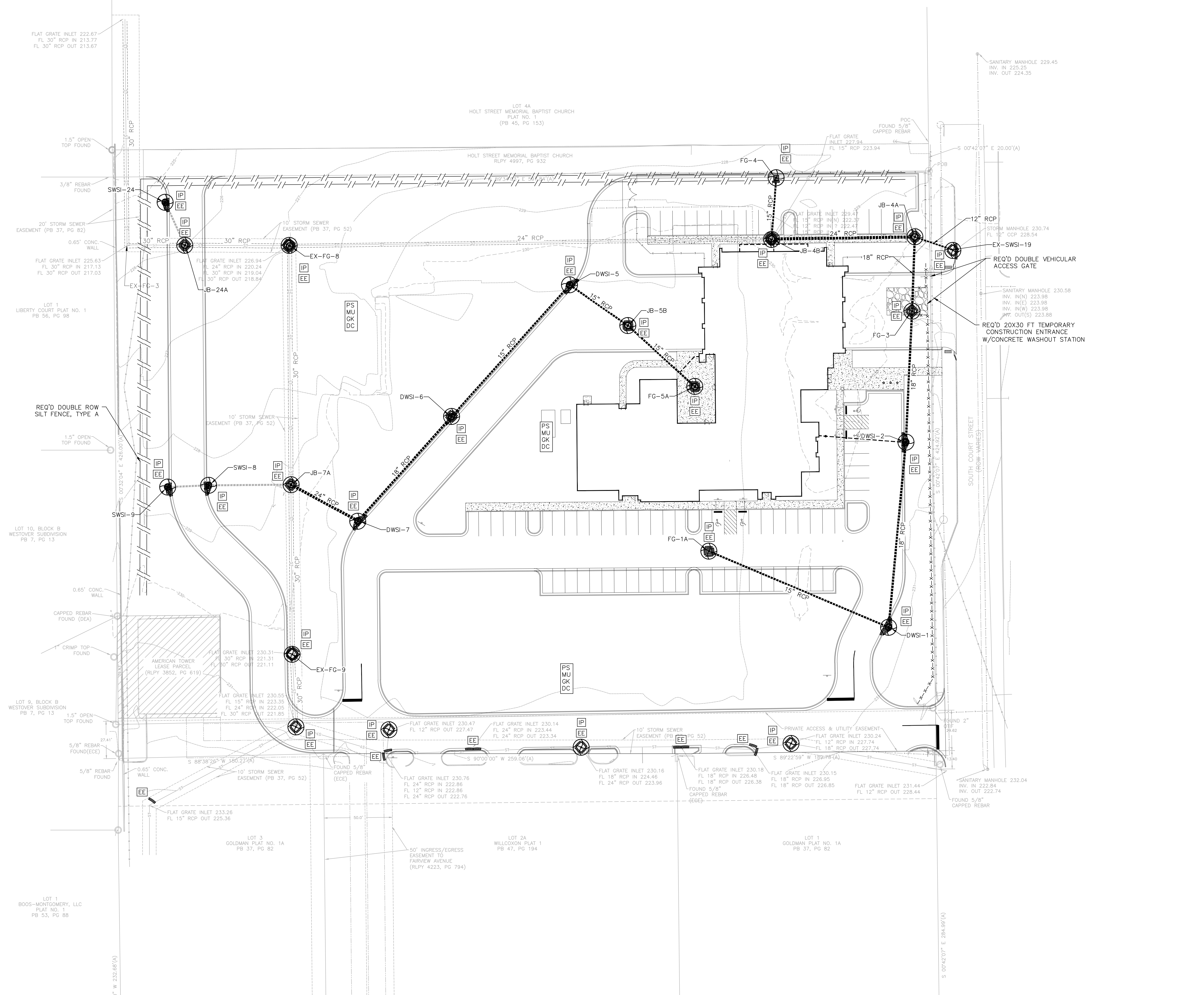
CONFORMANCE
DOCUMENTS

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 PLOTTED: 05/23/2023 10:00 AM
 PLOTTER: HP DesignJet T1100e



LEGEND

- POWER POLE
- ← GUY WIRE
- FIRE HYDRANT
- ⊕ SIGN
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ LIGHT POLE
- ⊕ CABLE TV BOX
- ⊕ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE— OVERHEAD ELECTRIC
- S— UNDERGROUND SEWER LINE
- W— UNDERGROUND WATERLINE
- G— UNDERGROUND GAS LINE
- ST— UNDERGROUND STORM PIPE
- 197--- EX. MAJOR CONTOUR
- 190--- EX. MINOR CONTOUR
- PROPOSED STORM PIPE
- //--- REQ'D TYPE "A" SILT FENCE
- ⊕ REQ'D SILT SAVER INLET PROTECTION [IP]
- ⊕ REQ'D CONSTRUCTION ENTRANCE
- ⊕ REQ'D EROSION EEL [EE]
- ⊕ REQ'D SPLASH PAD
- 228--- PROPOSED MINOR CONTOUR
- 230--- PROPOSED MAJOR CONTOUR
- PROPOSED STORM PIPE
- LIMITS OF ALTERNATES
- X-X-X-X- REQ'D CONSTRUCTION FENCE
- [TS] REQ'D TEMPORARY SEEDING
- [MU] REQ'D MULCHING
- [DC] REQ'D DUST CONTROL
- [GK] REQ'D GROUNDKEEPING



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
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1	Construction Documents	02-03-2023
2	Conformance Documents	05-22-2023

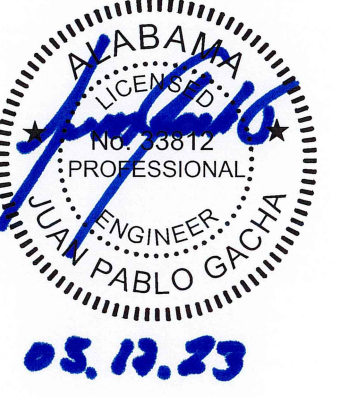
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 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED
 Drawing Title:

**PHASE II
EROSION
CONTROL
PLAN**

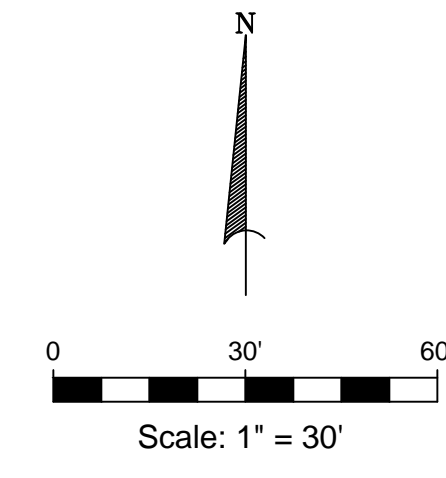
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C-602

CONFORMANCE
DOCUMENTS



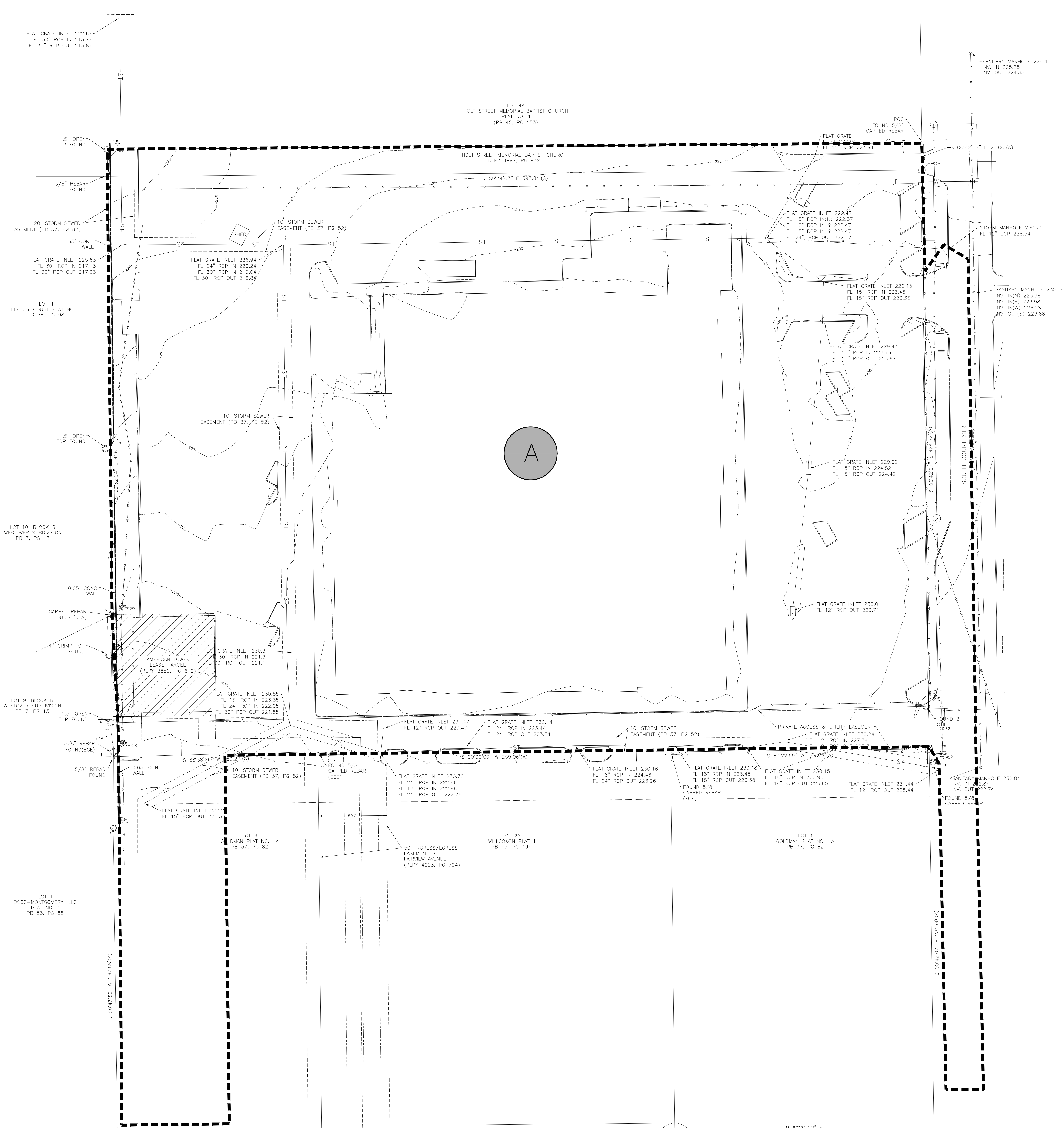
NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104



LEGEND

- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- SIGN
- ⊗ WATER METER
- ⊗ WATER VALVE
- ⊗ LIGHT POLE
- ⊗ CABLE TV BOX
- ⊗ EX. STORM MANHOLE
- EXISTING IRON PIN
- OE— OVERHEAD ELECTRIC
- S— UNDERGROUND SEWER LINE
- W— UNDERGROUND WATERLINE
- G— UNDERGROUND GAS LINE
- ST— UNDERGROUND STORM PIPE
- 197— EX. MAJOR CONTOUR
- 190— EX. MINOR CONTOUR

Drainage Calculation - 25 Year Storm Event				
Area(acre)	CN	Tc (min)	P (in)	qp (cfs)
A	7.03	98.00	5.00	7.64
				22.97



REVISIONS

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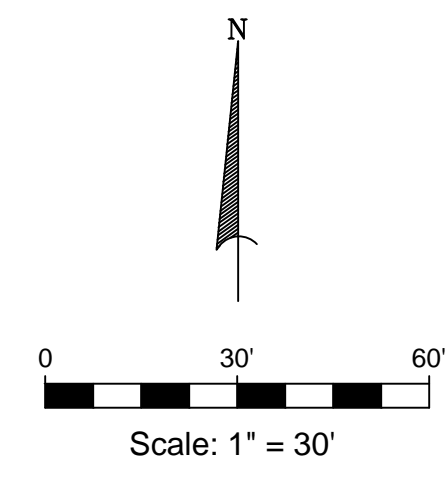
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BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

PRE-DEVELOPMENT
DRAINAGE PLAN

Sheet No:

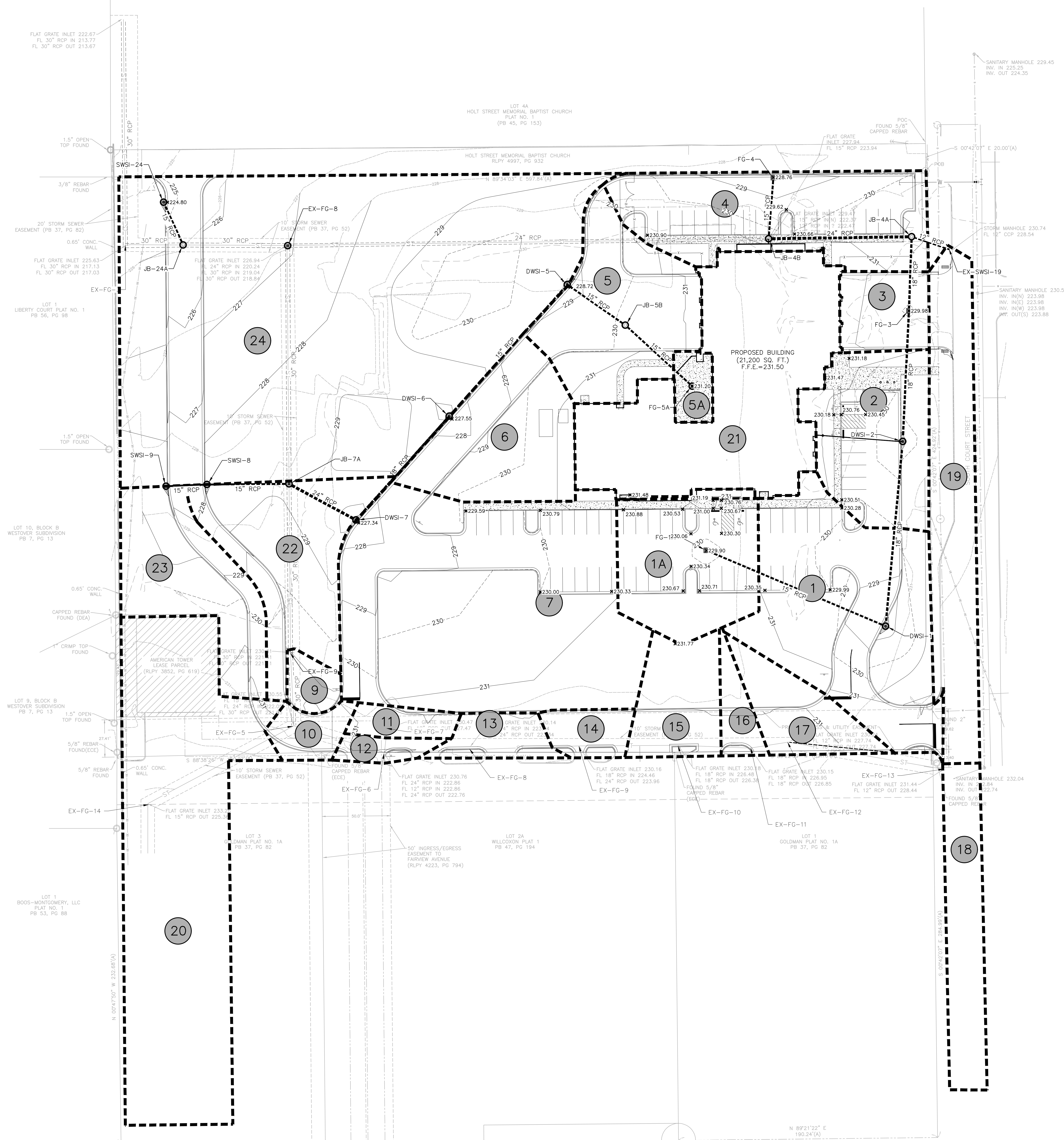
C-701

CONFORMANCE
DOCUMENTS



LEGEND

- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- ⊕ SIGN
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ LIGHT POLE
- ⊕ CABLE TV BOX
- ⊕ EX. STORM MANHOLE
- EXISTING IRON PIN
- OVERHEAD ELECTRIC
- S UNDERGROUND SEWER LINE
- W UNDERGROUND WATERLINE
- G UNDERGROUND GAS LINE
- ST UNDERGROUND STORM PIPE
- 197 EX. MAJOR CONTOUR
- 190 EX. MINOR CONTOUR
- 248 PROPOSED MINOR CONTOUR
- 250 PROPOSED MAJOR CONTOUR
- PROPOSED STORM PIPE
- LIMITS OF PHASE ONE



Pipe Sizes - 25 Years Storm Event						
STR	TO	STR	Added Q	Total Q	Pipe	Des. Slope, %
FG-1A	-	DWSI-1	1.91	1.91	15	0.50
DWSI-1	-	DWSI-2	3.81	5.72	18	0.35
DWSI-2	-	FG-3	1.72	7.43	18	0.55
FG-3	-	JB-4A	0.86	8.29	18	0.65
EX-SWSI-19	-	JB-4A	2.53	2.53	12	11.84
JB-4A	-	JB-4B	-	10.83	24	0.55
DWSI-4	-	JB-4B	2.68	2.68	15	2.50
JB-4B	-	EX-FG-8	-	13.50	24	0.55
EX-FG-18	-	EX-FG-17	1.50	1.50	12	EXISTING
EX-FG-17	-	EX-FG-16	0.74	2.24	18	EXISTING
EX-FG-16	-	EX-FG-15	0.43	2.66	18	EXISTING
EX-FG-15	-	EX-FG-14	1.22	3.88	18	EXISTING
EX-FG-14	-	EX-FG-13	0.56	4.44	24	EXISTING
EX-FG-13	-	EX-FG-11	0.76	5.20	24	EXISTING
EX-FG-12	-	EX-FG-11	0.29	0.29	12	EXISTING
EX-FG-11	-	EX-FG-10	0.38	5.87	24	EXISTING
EX-FG-10	-	EX-FG-9	0.41	6.57	24	EXISTING
EX-FG-9	-	JB-7A	0.10	5.97	30	EXISTING
FG-5A	-	JB-5A	0.34	0.34	15	1.00
JB-5A	-	DWSI-5	0.00	0.34	15	1.00
DWSI-5	-	DWSI-6	2.11	2.11	15	1.00
DWSI-6	-	DWSI-7	1.38	3.49	18	1.00
DWSI-7	-	JB-7A	3.95	7.43	24	2.53
SWSI-9	-	SWSI-8	0.51	0.51	24	2.53
SWSI-8	-	JB-7A	3.99	4.50	24	2.53
JB-7A	-	EX-FG-8	0.00	17.90	30	1.43
EX-FG-8	-	JB-24A	2.23	20.13	30	1.43
SWSI-24	-	JB-24A	2.23	2.23	15	1.00

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
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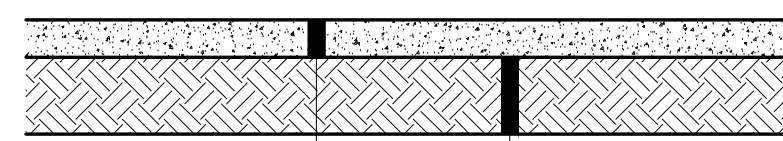
MGM Project No. SP-5-21
 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED
 Drawing Title:

**POST-DEVELOPMENT
DRAINAGE PLAN**

Sheet No:

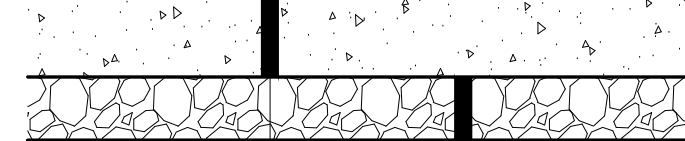
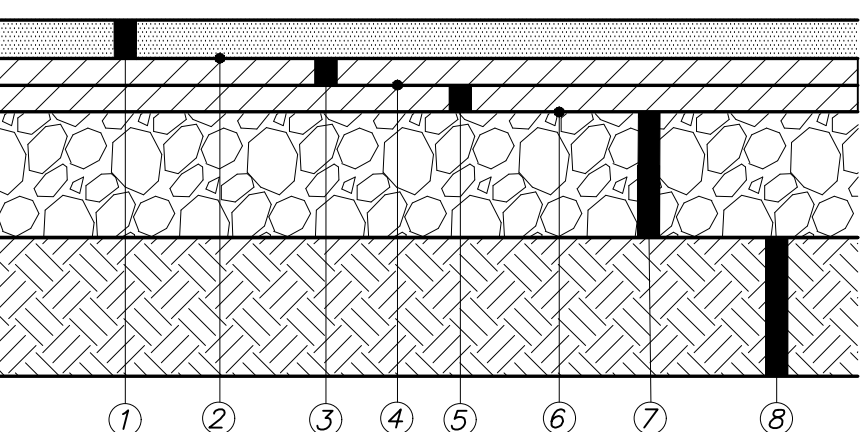
C-702

CONFORMANCE DOCUMENTS



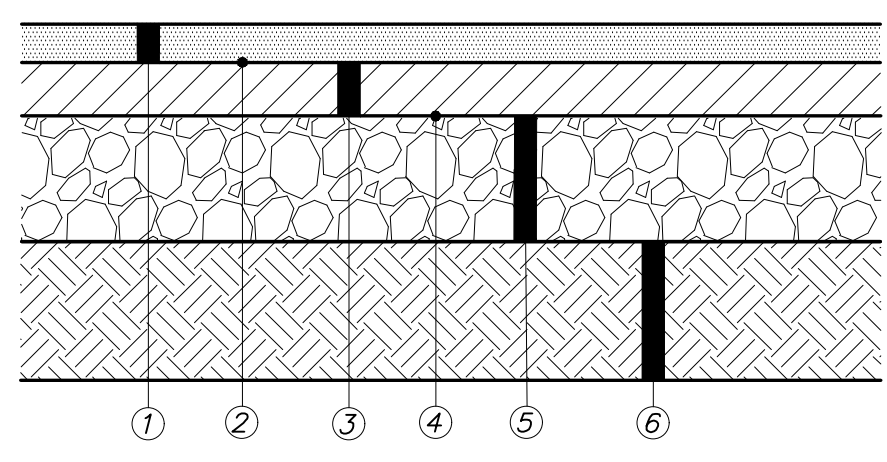
CONCRETE SIDEWALK
N.T.S.

- ① 6.00" 3000psi COMPRESSIVE STRENGTH CONCRETE WITH 6"x6"-10/10 W.W.F. (MINIMUM 525psi FLEXURAL STRENGTH) MAXIMUM 4" SLUMP.
- ② SUBGRADE COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SEE GEOTECHNICAL REPORT).



HEAVY-DUTY CONCRETE PAVING SECTION
N.T.S.

- ① 8.00" 4000psi COMPRESSIVE STRENGTH (550 PSI FLEXURAL STRENGTH) CONCRETE, MAXIMUM 4" SLUMP.
- ② 5.00" MIN. CRUSHED STONE BASE, ALDOT SECTION 825, (100% MODIFIED DENSITY).
- ③ 6.00" IMPROVED SUBGRADE, ALDOT SECTION 230 MODIFIED ROADBED TO 100% STANDARD DENSITY (SEE GEOTECHNICAL REPORT).

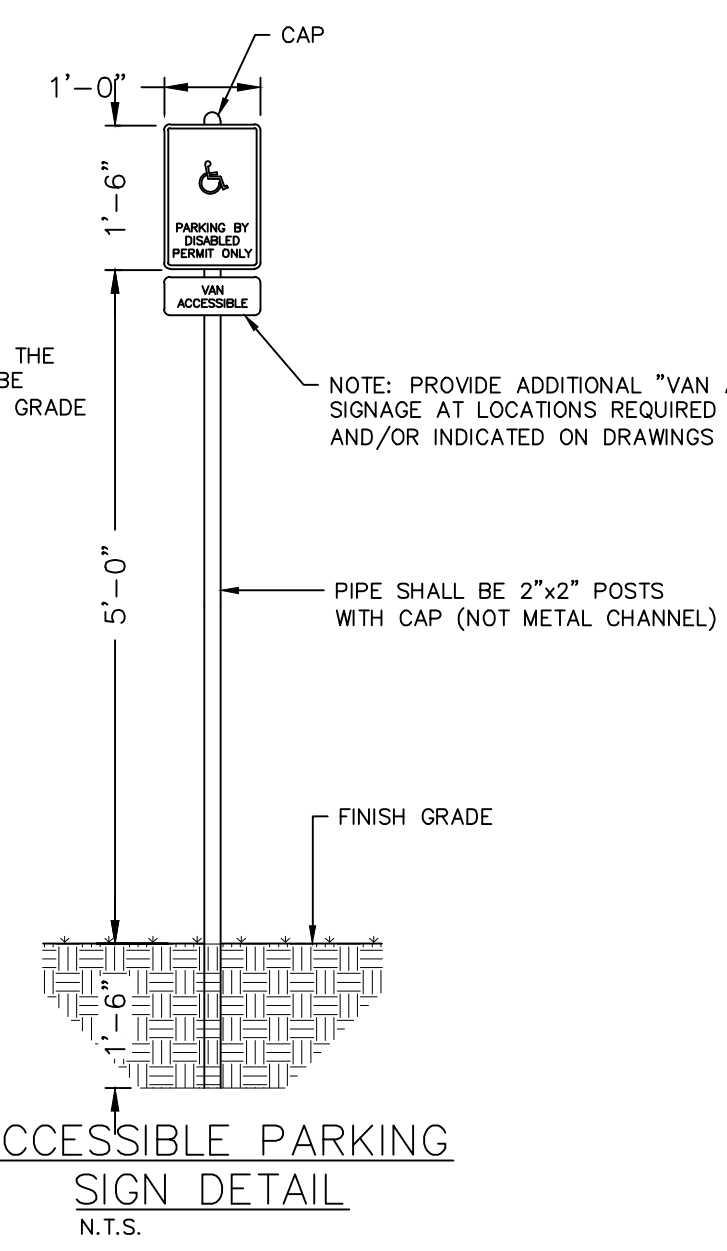


LIGHT DUTY ASPHALT PAVING SECTION
N.T.S.

- ① 1.50" ALDOT Section 424-A 340 Bituminous Wearing Surface
- ② ALDOT Section 405 Bituminous Tack Coat.
- ③ 2.50" ALDOT Section 424-B 635 Bituminous Binder Placed And Compacted In Layers Not Greater Than 3.5"
- ④ ALDOT Section 401-A Bituminous Prime Coat.
- ⑤ 6.00" ALDOT Section 825 Crushed Aggregate Base Course (Compacted to 100% Modified Density, See Geotechnical Report)
- ⑥ 6.00" ALDOT Section 230 Modified Roadbed (Compacted to 100% Modified Density, See Geotechnical Report)

HEAVY DUTY ASPHALT PAVING SECTION
N.T.S.

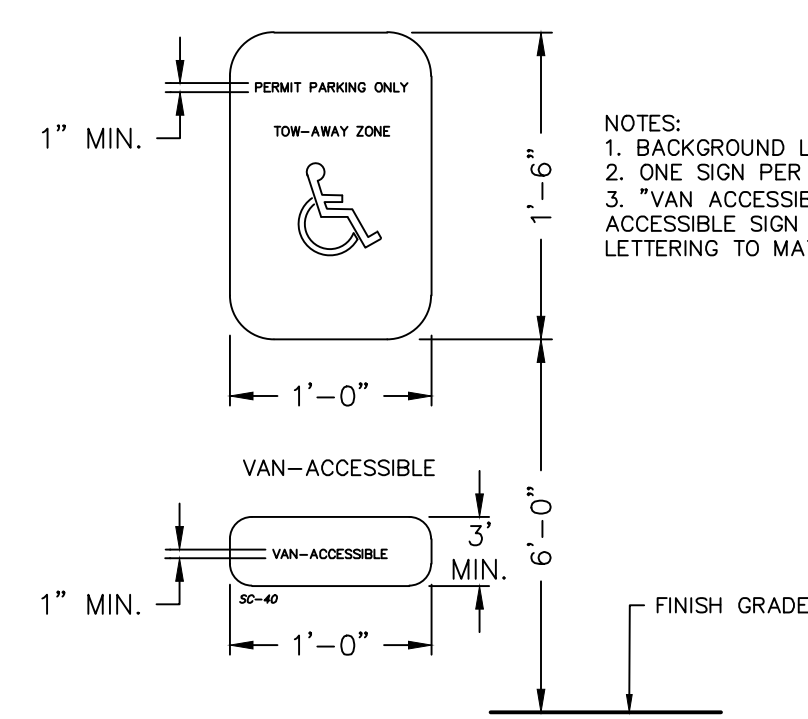
- ① 1.50" ALDOT Section 424-A 340 Bituminous Wearing Surface
- ② ALDOT Section 405 Bituminous Tack Coat.
- ③ 2.25" ALDOT Section 424-B 635 Upper Bituminous Binder Placed And Compacted In Layers Not Greater Than 3.5"
- ④ ALDOT Section 405 Bituminous Tack Coat.
- ⑤ 2.25" ALDOT Section 424-B 635 Lower Bituminous Binder Placed And Compacted In Layers Not Greater Than 3.5"
- ⑥ ALDOT Section 401-A Bituminous Prime Coat.
- ⑦ 6.00" ALDOT Section 825 Crushed Aggregate Base Course (Compacted to 100% Modified Density, See Geotechnical Report)
- ⑧ 6.00" ALDOT Section 230 Modified Roadbed (Compacted to 100% Modified Density, See Geotechnical Report)



ACCESSIBLE PARKING SIGN DETAIL
N.T.S.

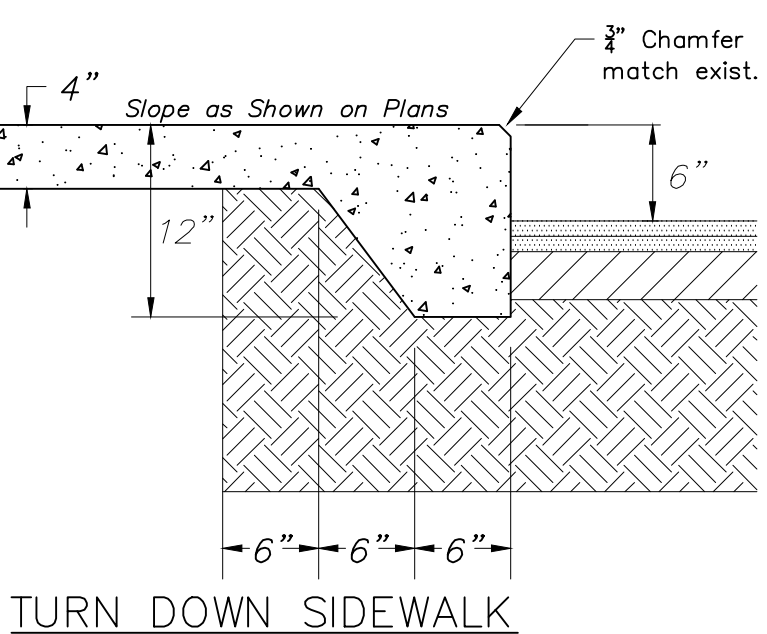
NOTES: THE LOWEST SIGN ON THE ACCESSIBLE PARKING SHALL BE 60" MINIMUM ABOVE FINISHED GRADE.

NOTE: PROVIDE ADDITIONAL "VAN ACCESSIBLE" SIGNAGE AT LOCATIONS REQUIRED BY CODE AND/OR INDICATED ON DRAWINGS.



ACCESSIBLE SIGN DETAILS
N.T.S.

- NOTES:
- 1. BACKGROUND LETTERING AND SYMBOL TO MATCH SIGNS.
 - 2. ONE SIGN PER ACCESSIBLE SPACE.
 - 3. "VAN ACCESSIBLE" SIGN TO BE MOUNTED BELOW STANDARD ACCESSIBLE SIGN WHERE SPECIFIED ON PLANS. COLORING AND LETTERING TO MATCH ACCESSIBLE SIGN.

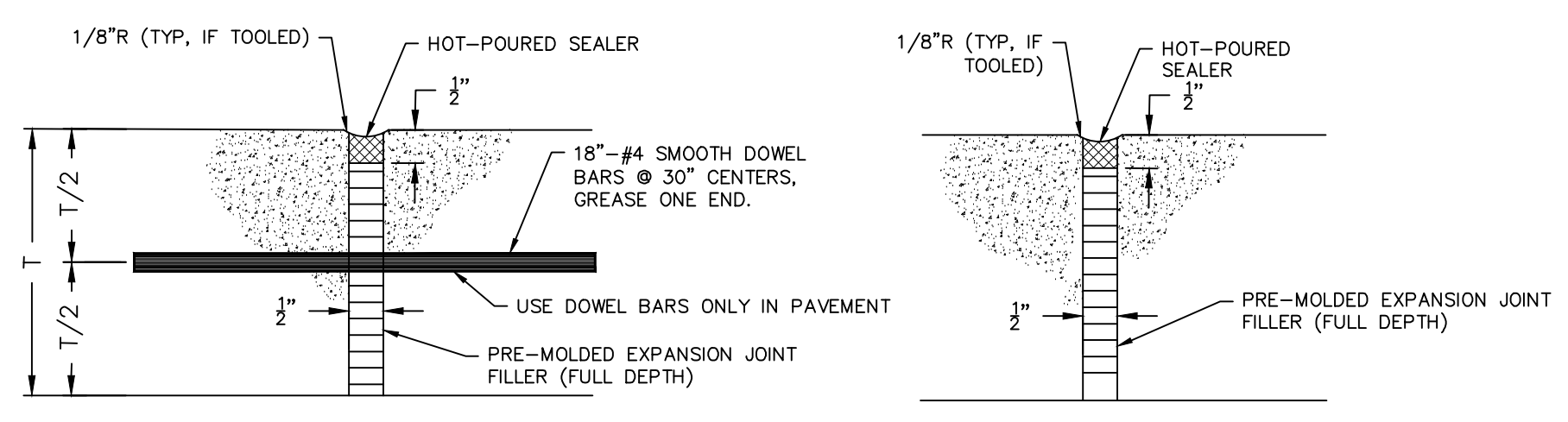


TURN DOWN SIDEWALK
N.T.S.

- ① 3000psi COMPRESSIVE STRENGTH CONCRETE WITH 6"x6"-10/10 W.W.F. (MINIMUM 525psi FLEXURAL STRENGTH) MAXIMUM 4" SLUMP.

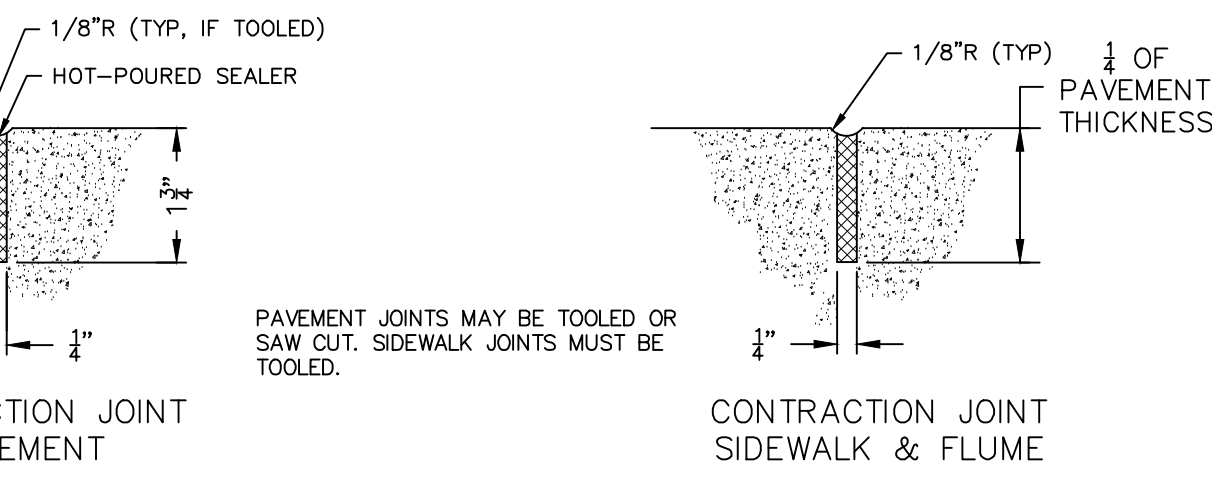
CONCRETE WHEEL STOP
N.T.S.

NOTE: CONCRETE SHALL BE AIR ENTRAINED, REINFORCED 4000psi CONCRETE.



CONCRETE JOINT DETAILS
N.T.S.

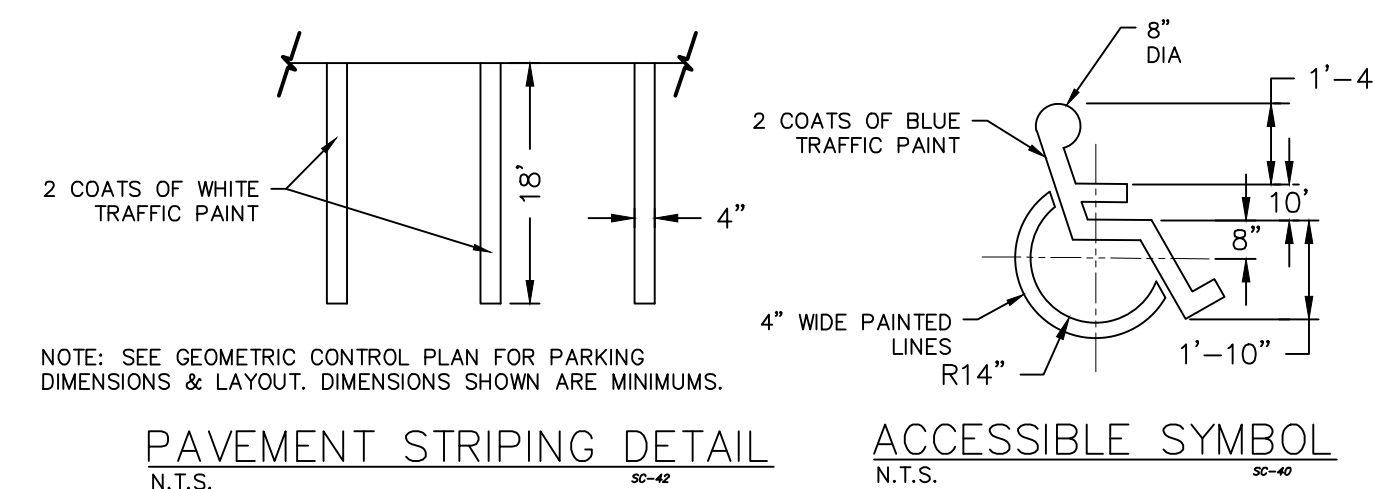
- 1. EXPANSION JOINTS IN THE PAVEMENT SHALL BE A MAXIMUM WIDTH OF 30 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 10 FEET.
- 2. EXPANSION JOINTS IN THE SIDEWALK SHALL BE A MAXIMUM WIDTH OF 20 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 5 FEET.



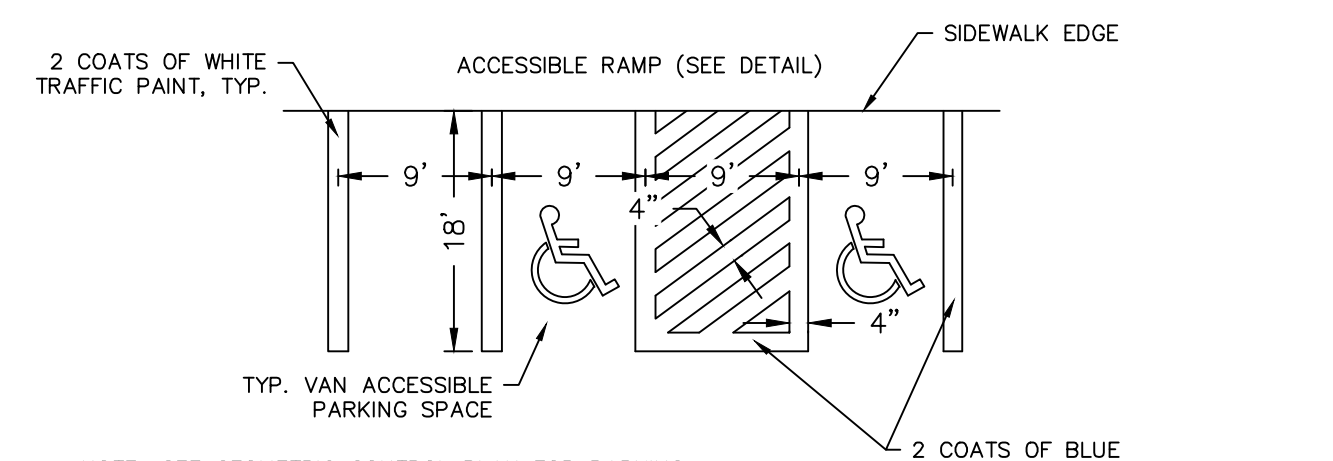
CONTRACTION JOINT PAVEMENT
CONTRACTION JOINT SIDEWALK & FLUME

CONCRETE JOINT DETAILS
N.T.S.

- 1. EXPANSION JOINTS IN THE PAVEMENT SHALL BE A MAXIMUM WIDTH OF 30 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 10 FEET.
- 2. EXPANSION JOINTS IN THE SIDEWALK SHALL BE A MAXIMUM WIDTH OF 20 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 5 FEET.



PAVEMENT STRIPING DETAIL
N.T.S.



PAVEMENT MARKINGS DETAIL
N.T.S.

NOTE: SEE GEOMETRIC CONTROL PLAN FOR PARKING DIMENSIONS & LAYOUT. DIMENSIONS SHOWN ARE MINIMUMS.

NOTE: SEE GEOMETRIC CONTROL PLAN FOR PARKING DIMENSIONS & LAYOUT. DIMENSIONS SHOWN ARE MINIMUMS.

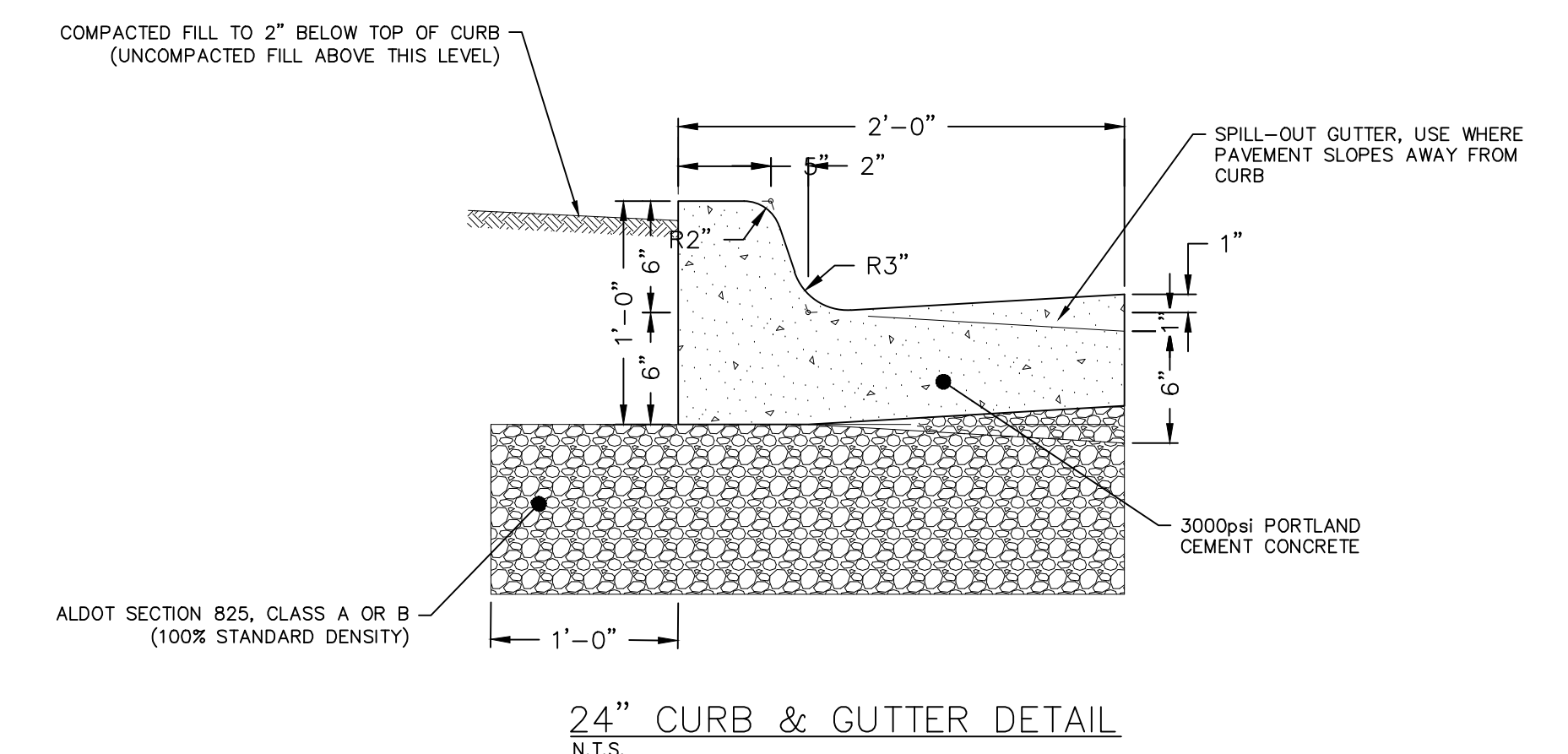


STANDARD SIZE 30"x30"
MESSAGE BORDER - WHITE (REFLECTORIZED)

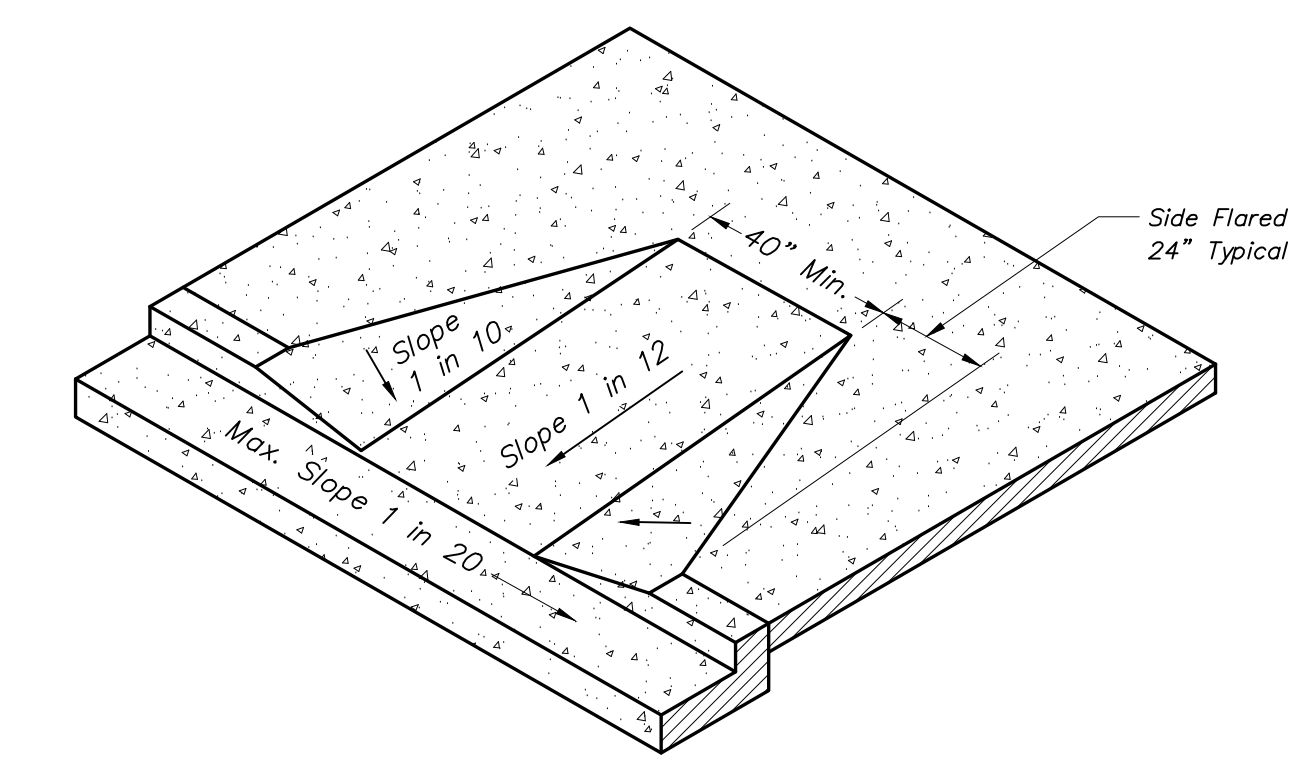
DETAILS:
NUMBER: R1-1
SIZE: 30"x30"
MARGIN: NONE
BORDER: 3/4"
LETTER SIZE: 10"
CORNER RADIUS: NONE
PLACEMENT: STANDARD

STOP SIGN R1-1
N.T.S.

PURPOSE: THE R1-1 "STOP" SIGN SHALL BE USED ON APPROACHES OF INTERSECTIONS AND AT OTHER LOCATIONS WHERE CONDITIONS WARRANT STOP SIGN CONTROL. THE SIGN SHOULD BE SUPPLEMENTED WITH A STOP LINE ON THE PAVEMENT.



24" CURB & GUTTER DETAIL
N.T.S.

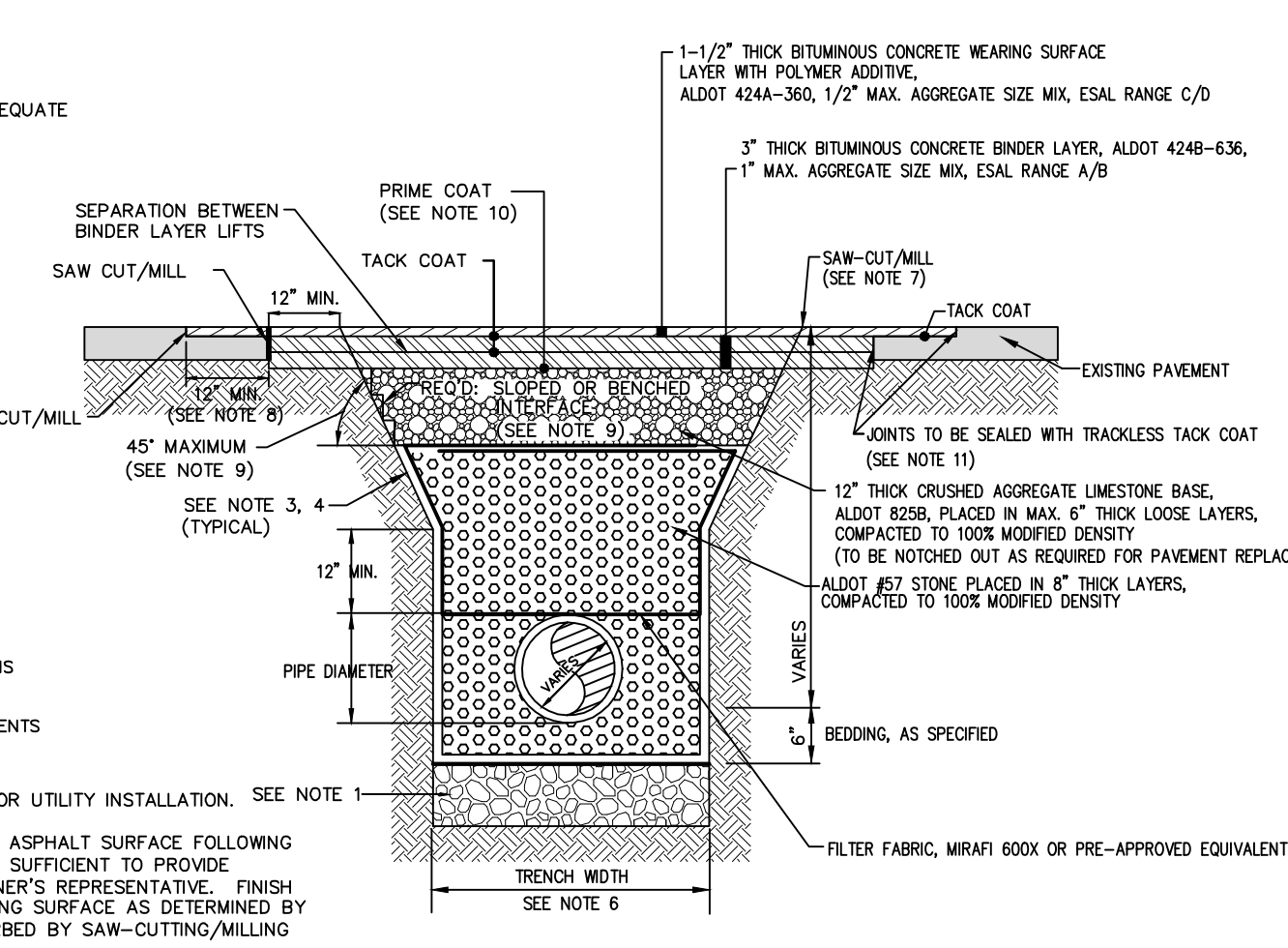


TYPICAL CURB CUT FOR HANDICAP ACCESS RAMP DETAIL
Modified Type I Ramp

NOT TO SCALE

NOTES:

- 1) TRENCH FOUNDATION REQUIRED ONLY WHEN EXISTING SOIL CONDITIONS ARE INADEQUATE FOR PROPER PIPE SUPPORT AS DETERMINED BY OWNER'S REPRESENTATIVE.
- 2) ALL TRENCH BACKFILL OPERATIONS SHALL BE OBSERVED BY THE OWNER'S REPRESENTATIVE ON THE PROJECT. HOWEVER, THE PRESENCE OF THE OWNER'S REPRESENTATIVE SHALL NOT RELIEVE THE CONTRACTOR OF ANY REQUIREMENTS OR OBLIGATIONS ASSOCIATED WITH ALL UTILITY TRENCHES.
- 3) ALL SLOPES SHALL CONFORM TO OSHA REQUIREMENTS. ADDITIONAL PROTECTIVE MEASURES MAY BE REQUIRED ABOVE AND BEYOND OSHA DEPENDING ON SPECIFIC TRENCH CONDITIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF WORKERS, THE GENERAL PUBLIC, AND OTHERS INVOLVED IN THE PROJECT AND SHALL PROVIDE SHEETING, BRACING, SHORING, ETC. AND OTHER APPURTENANCES AS REQUIRED BY THE SAFETY REQUIREMENTS OF OSHA AND/OR OSHA.
- 4) THE LINES AND TRENCHES SHOWN ON THE TRENCH DETAILS ARE ONLY INTENDED TO DEFINE THE BACKFILL REQUIREMENTS AND THE MINIMUM DIMENSIONS FOR THE TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO "LAY BACK" THE TRENCH WALLS TO WHATEVER FLATNESS OF SLOPE IS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS FOR THE PLACEMENT OF THE PIPE AND BEDDING.
- 5) ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 98% STD ASTM D 698 UNLESS OTHERWISE NOTED BY ABOVE DETAILS.
- 6) THE WIDTH OF THE TRENCH AT THE TOP OF THE PIPE SHALL PERMIT THE PIPE TO BE Laid AND JOINED PROPERLY AND TO ALLOW THE BACKFILL TO BE PLACED AND COMPACTED IN ACCORDANCE WITH THE TRENCH DETAILS. AS A GUIDE, TRENCH WIDTHS SHALL BE THE NOMINAL PIPE DIAMETER PLUS 4" WHEN SHEETING, BRACING, SHORING, ETC. AND OTHER APPURTENANCES AS REQUIRED BY THE SAFETY REQUIREMENTS OF OSHA AND/OR OSHA.
- 7) SAW-CUT/MILL LINE FOR INITIAL REMOVAL OF EXISTING MATERIAL AS REQUIRED FOR UTILITY INSTALLATION. SEE NOTE 1.
- 8) SAW-CUT AND/OR MILL MINIMUM 12" WIDE BY 1-1/2" THICK PORTION OF EXISTING ASPHALT SURFACE FOLLOWING PLACEMENT OF BINDER LAYER. ACTUAL WIDTH OF SAW-CUT/MILL AREA SHALL BE SUBJECT TO PROVIDE MINIMUM OF 12" FROM ANY DAMAGED OR UNLINED AREAS AS DETERMINED BY OWNER'S REPRESENTATIVE. FINISH EDGE OF MILLING SHALL PROVIDE NEAT, STRAIGHT APPEARANCE FOR FINAL WEARING SURFACE AS DETERMINED BY OWNER'S REPRESENTATIVE. EXISTING ADJACENT PAVEMENT SHALL NOT BE DISTURBED BY SAW-CUTTING/MILLING OPERATIONS.
- 9) CONTRACTOR SHALL UTILIZE EITHER SLOPED PLANE OR BENCHED INTERFACE IN AREA OF PROPOSED CRUSHED AGGREGATE BASE COURSE IN ORDER TO PROPERLY TRANSFER LOAD FROM EXISTING AND REQUIRED SURFACES IN AREAS OF PAVEMENT REPAIRS. WHERE SLOPED PLANE SURFACE IS NOT OBTAINABLE BASED UPON MATERIAL CONDITIONS OR AS DIRECTED BY OWNER'S REPRESENTATIVE, A BENCHED SURFACE SHALL BE UTILIZED AS SHOWN ON DETAIL. THE SLOPED PLANE OR BENCHED SURFACE SHALL BE ON A MAXIMUM 45 DEGREE ANGLE AS SHOWN IN THE DETAIL. AREA OUTSIDE OF THE SLOPED PLANE OR BENCH SURFACE SHALL BE UNDISTURBED, WITH ANY AND ALL LOOSE OR UNSOUND MATERIAL REMOVED PRIOR TO PLACEMENT OF REQUIRED CRUSHED AGGREGATE BASE COURSE.
- 10) PRIME COAT MAY BE OMITTED IF BINDER LAYER APPLIED WITHIN 48 HOURS OF ACCEPTED CRUSHED AGGREGATE BASE COURSE BY OWNER'S REPRESENTATIVE (GEOTECHNICAL TESTING LABORATORY).
- 11) ALL ASPHALT LAYERS AND JOINTS SHALL BE PROPERLY CLEANED BY ANY AND ALL MEANS NECESSARY PRIOR TO APPLICATION OF TRACKLESS TACK COAT. NO LOOSE MATERIAL, DEBRIS, MOISTURE, ETC., SHALL BE ON SURFACE(S) WHEN TRACKLESS TACK COAT APPLIED BETWEEN LAYERS OR AT JOINT(S).



UTILITY TRENCH/PAVEMENT REPAIR DETAIL

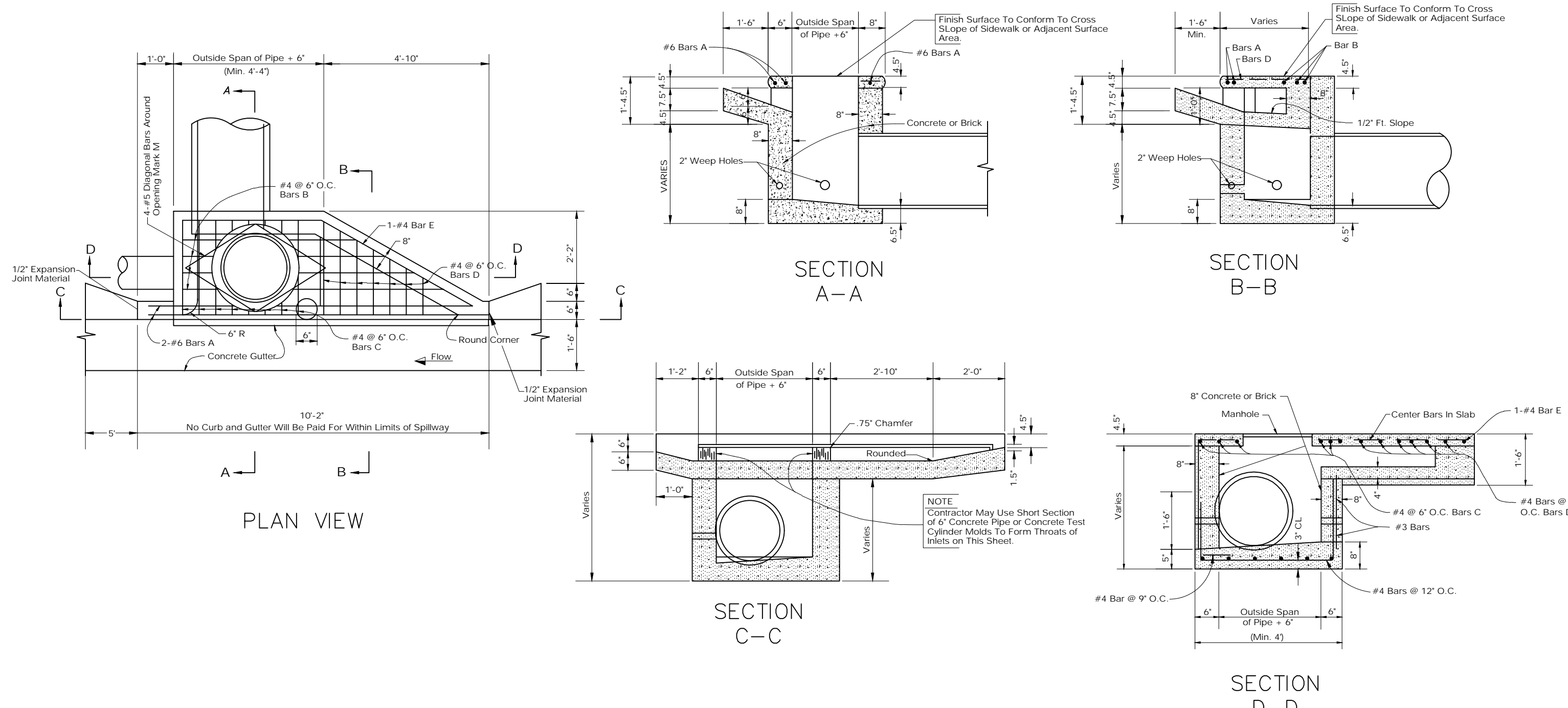
No.	Description	Date
1	Construction Documents	02-03-2023
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MGJ Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
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Drawing Title:

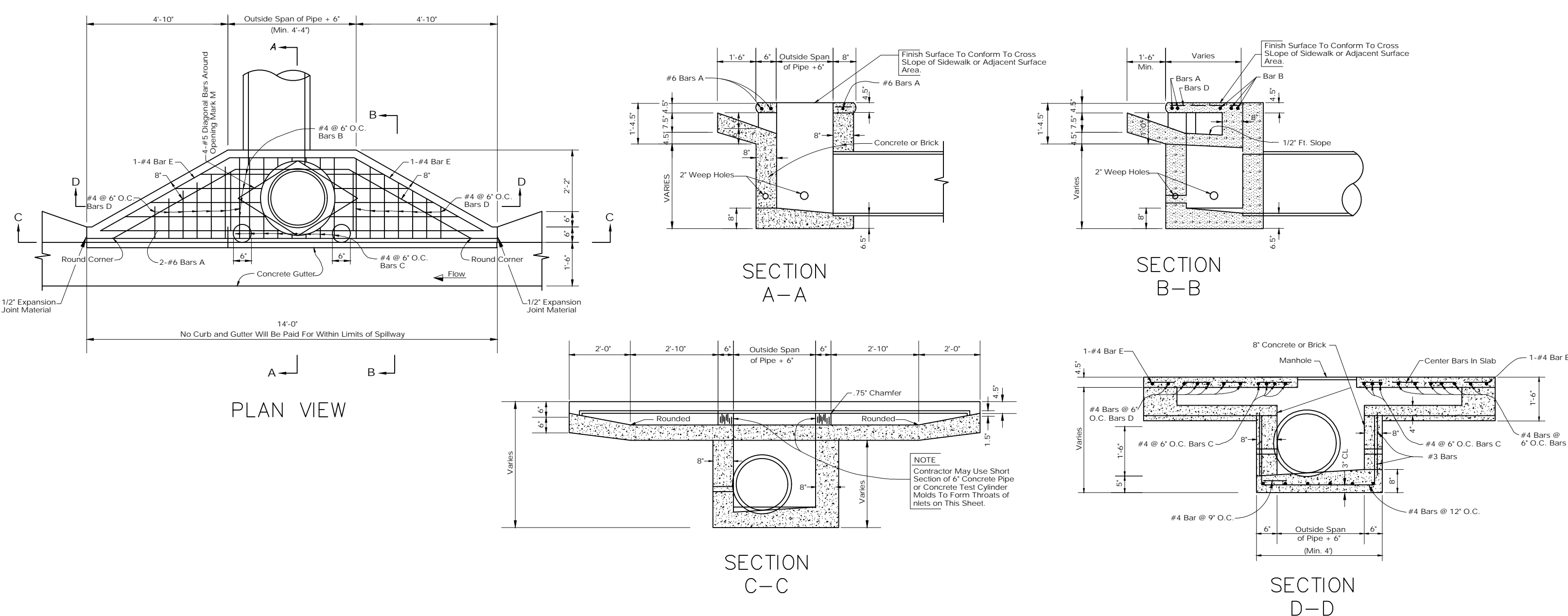
SITE DETAILS

Sheet No:

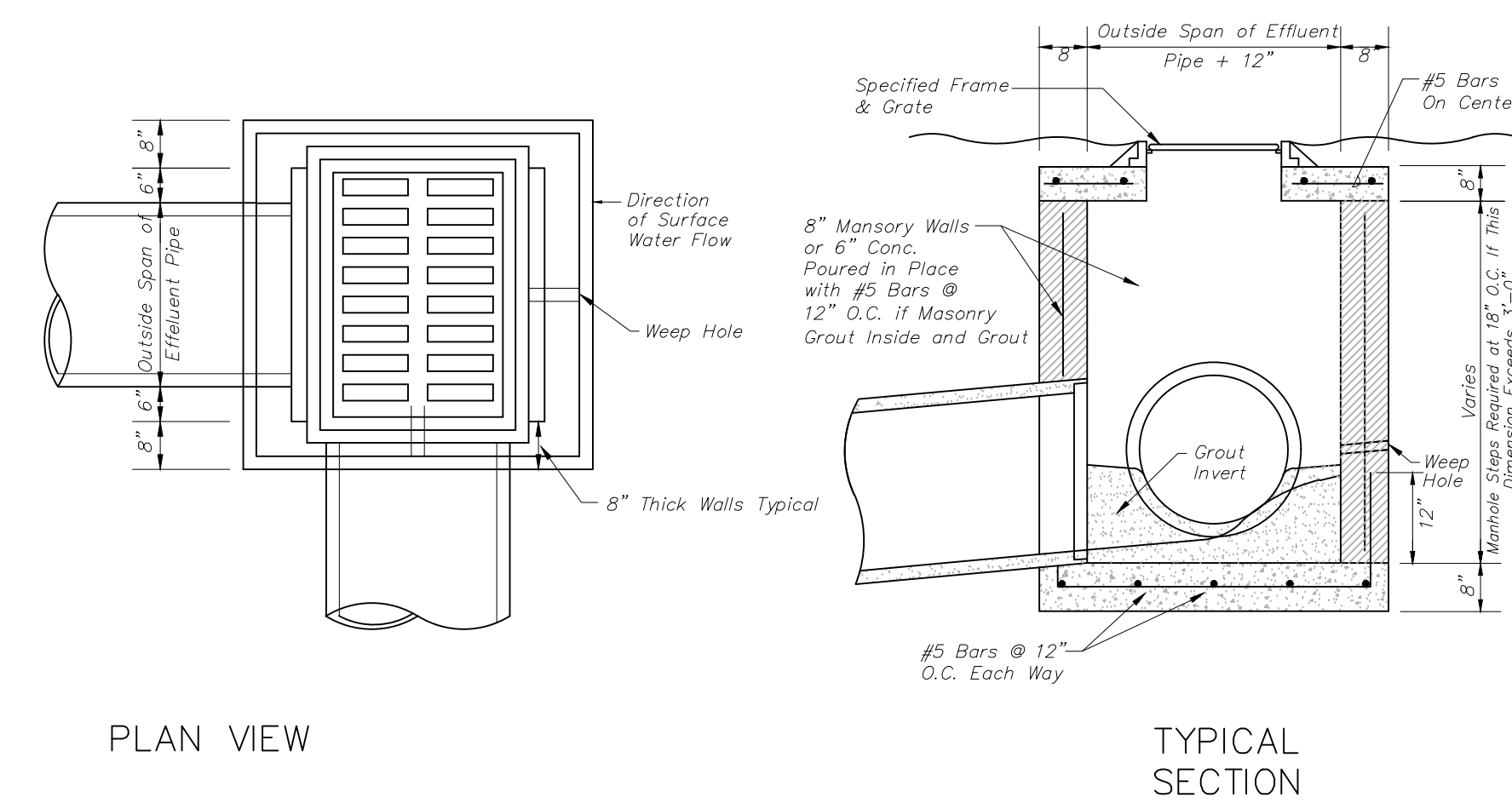
C-901



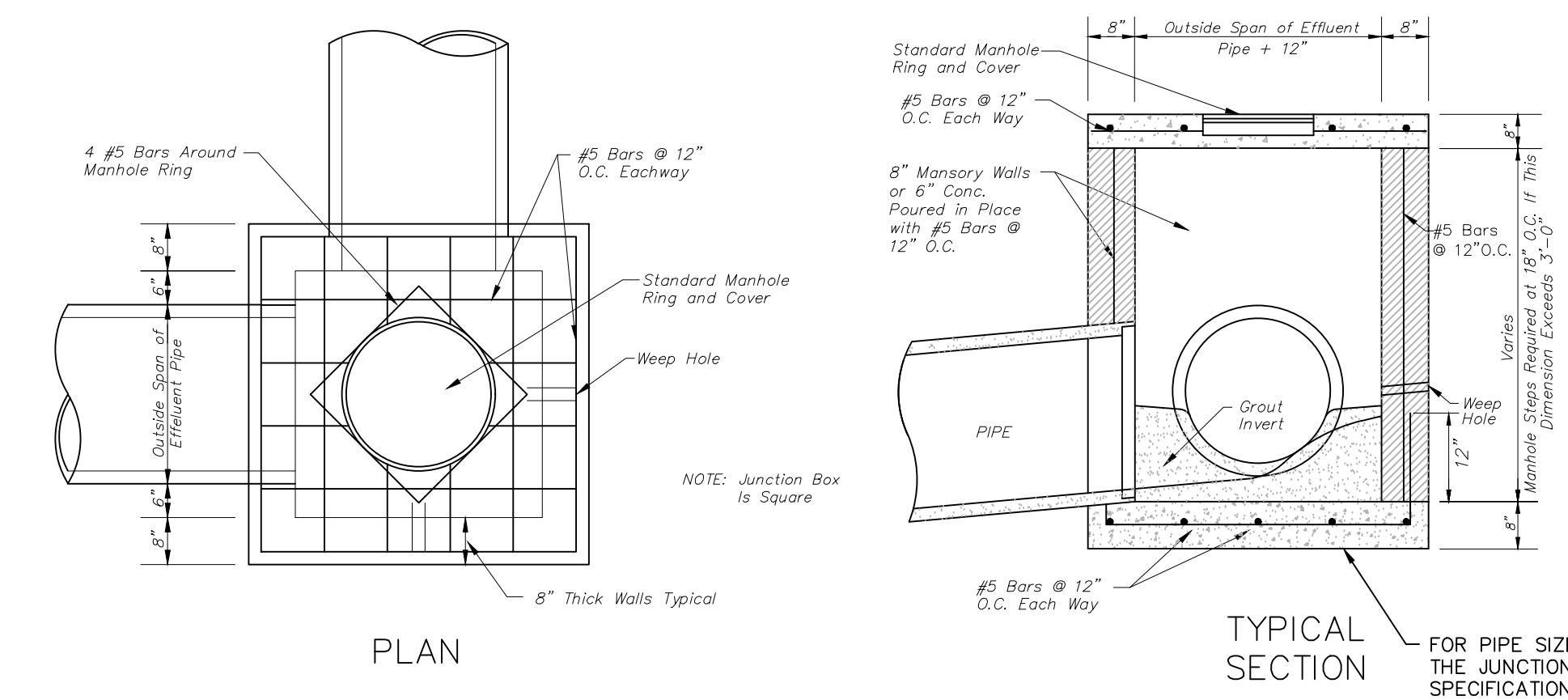
TYPICAL 'S' TYPE SINGLE WING INLET DETAIL
N.T.S.



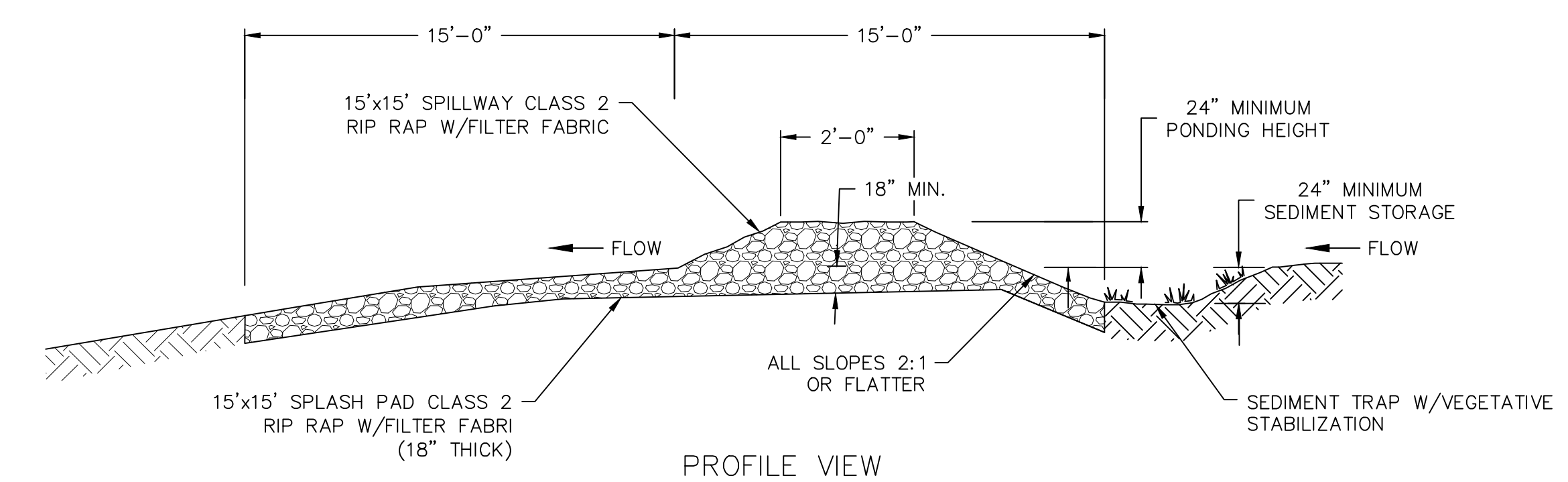
TYPICAL 'S' TYPE DOUBLE WING INLET DETAIL
N.T.S.



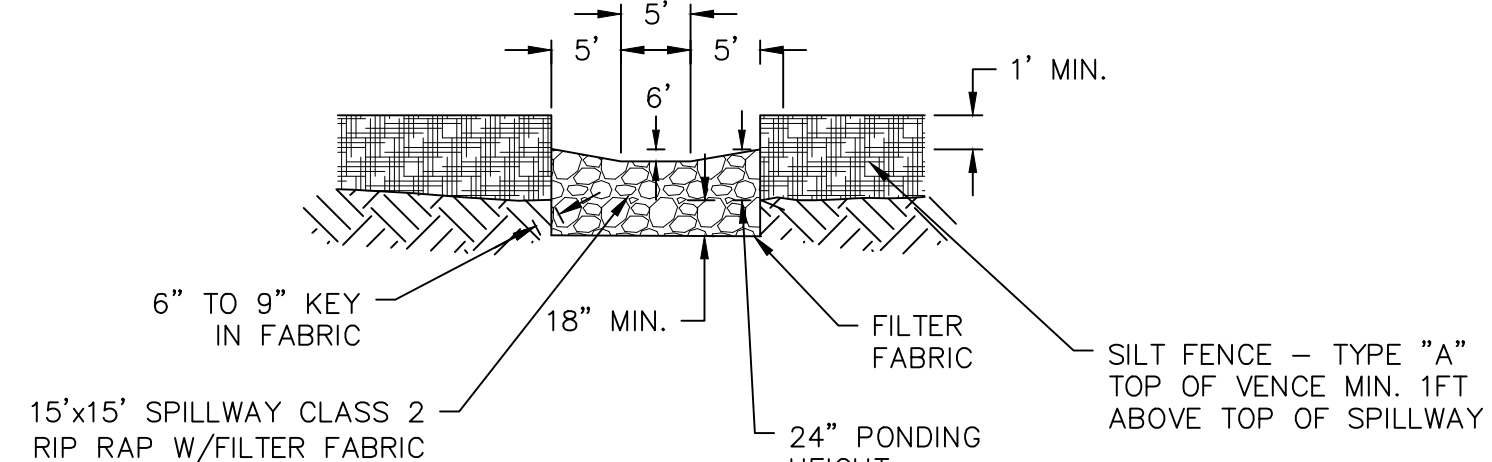
STANDARD FLAT GRATE INLET DETAIL
N.T.S.



STANDARD JUNCTION BOX DETAIL - 12"-36" PIPE
N.T.S.



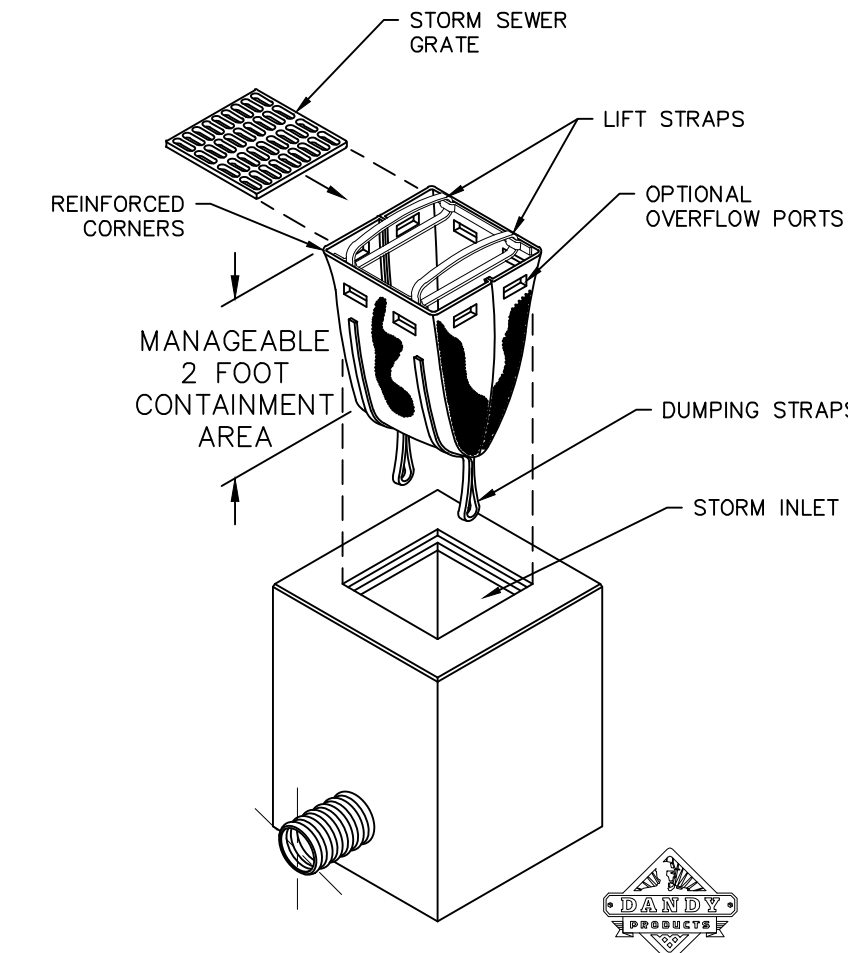
15'x15' RIP RAP SPILLWAY W/SPLASH PAD
N.T.S.



15'x15' RIP RAP SPILLWAY W/SPLASH PAD
N.T.S.

NOTE: THE DANDY SACKS[®] WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK [®] (BLACK)			
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.78 (400)x1.40 (315)
GRAB TENSILE ELONGATION	ASTM D 4632	%	15x15
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.67 (150)
MILLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	5508 (800)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.67 (150)x0.73 (165)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m ² (gal/min/ft ²)	2852 (70)
PERMITTIVITY	ASTM D 4491	Sec ⁻¹	0.90



DANDY SACK[®]
INLET SEDIMENT CONTROL DEVICE

HI-FLOW DANDY SACK [®] (SAFETY ORANGE)			
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365)x0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24x10
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.40 (90)
MILLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	3997 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.51 (115)x0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m ² (gal/min/ft ²)	5907 (145)
PERMITTIVITY	ASTM D 4491	Sec ⁻¹	2.10

NOTE: ALL DANDY SACKS[®] CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS.

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-23-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

UTILITY
DETAILS

Sheet No:

C-902

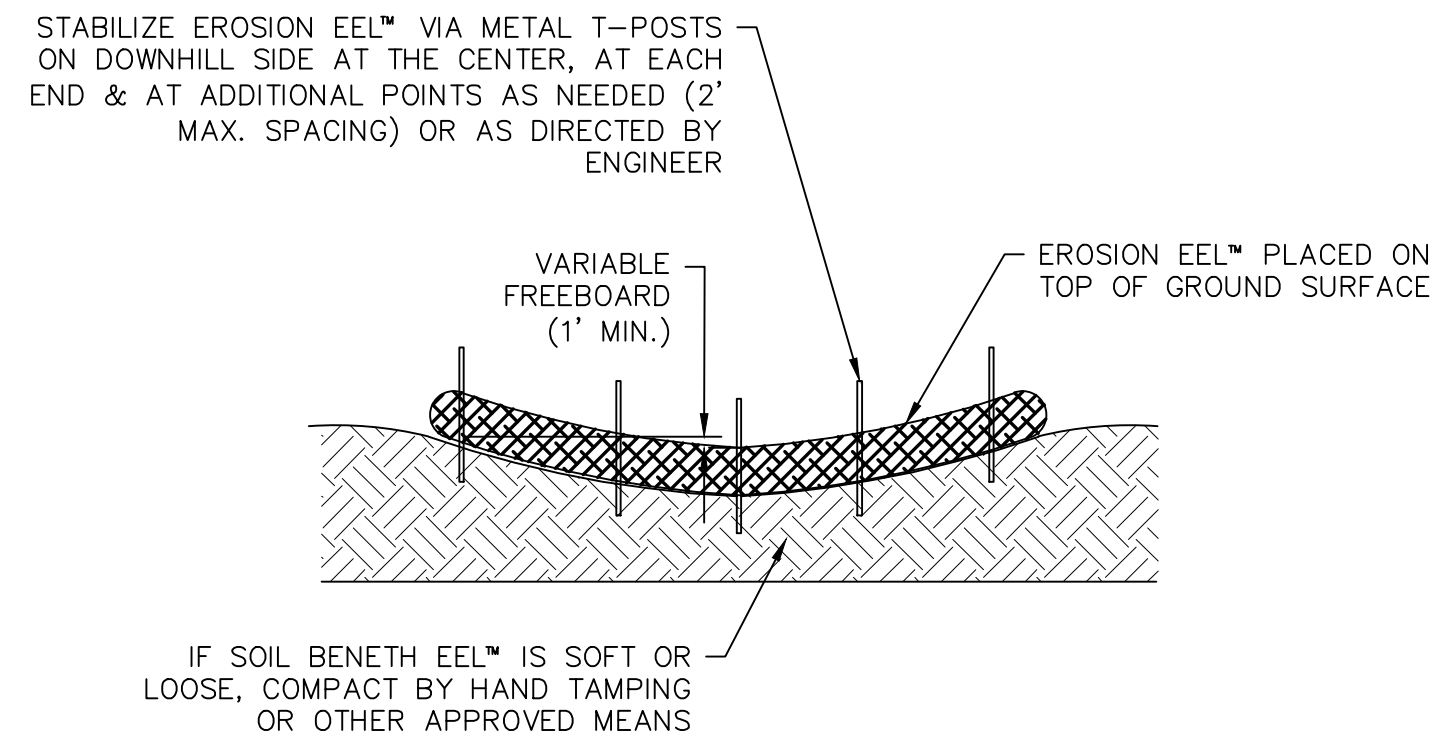
CONFORMANCE
DOCUMENTS

GENERAL NOTES:

- EROSION EELS USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.1 OR 1.2.
 - MIXTURE SPECIFICATION 1.1. A FILTER MIXTURE COMPRISED OF 50% SHREDDED RUBBER AND 50% WOOD CHIP PARTICLES BY VOLUME. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFIRM TO ASHTO CERTIFICATION SPECIFICATION MP 9-03.
 - MIXTURE SPECIFICATION 1.2. A FILTER MIXTURE COMPRISED OF 1/3 SHREDDED RUBBER, 1/3 WOOD CHIPS, AND 1/3 RECYCLED SYNTHETIC FIBERS. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFIRM TO ASHTO CERTIFICATION SPECIFICATION MP 9-03. THE SYNTHETIC FIBERS SHALL BE PRODUCED FROM RECYCLED, MANUFACTURED MATERIALS, SUCH AS, BUT NOT LIMITED TO, PRE-CONSUMER SCRAP CARPET, TIRE CHORD, AND TIRE FIBER MATERIALS.
- EROSION EELS SHALL BE MANUFACTURED FROM A WOVEN GEOTEXTILE COVERING WITH INTERIOR FILTER MATERIALS SUCH AS 100% SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0, 50% SHREDDED RUBBER/50% ASHTO-CERTIFIED WOOD CHIPS (MIXTURE SPECIFICATION 1.1).
- LENGTHS OF EROSION EELS SHALL BE EITHER A NOMINAL +/-10 FT. OR +/- 4.5 FT. NOMINAL DIAMETER SHALL BE +/-9.5 INCHES.
- EROSION EELS CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.
- EROSION EELS SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BERM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED SOIL AREA.
- NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS.
- PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLODS, AND WOODY VEGETATION. EROSION EELS CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
- RAKE BED AREA WITH A HAND RAKE OR BY DRAG HARROW.
- DO NOT PLACE EEL DIRECTLY OVER RILL AND GULLIES UNTIL AREA HAS BEEN HAND-EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. ALL SURFACES SHALL BE UNIFORMLY COMPACTED FOR MAXIMUM SEATING OF EELS IN PLACE.
- FOR LOCATIONS WHERE EELS WILL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROLS AT PRIMARY DISCHARGE LOCATIONS, BED THE EELS IN A FLOCMAT CRADLE PER THE DETAILED DRAWINGS.
- FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.
- IF MORE THAN ONE EROSION EEL IS PLACED IN A ROW, THE EELS SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT, COMPRESS THE TWO EELS OF THE OVERLAP TIGHTLY TOGETHER EITHER BY HAND OR MANUFACTURER-APPROVED MECHANIZED MEANS.
- WHEN USED IN DITCHES AS A CHECK DAM, EROSION EELS SHALL BE INSTALLED PER MANUFACTURER'S DETAILS.
- FOR CHECK DAM APPLICATIONS, EROSION EELS SHALL BE PLACED PERPENDICULAR TO THE FLOW OF THE WATER. EROSION EELS SHALL CONTINUE UP THE SIDES SLOPES A MINIMUM OF 3 FEET ABOVE THE DESIGN FLOW DEPTH.
- EROSION EELS SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION HAS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRING REPLACEMENT WITH NEW EELS).
- ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LBS/FT STEEL T-POSTS (5 TO 7 FT. LENGTHS) ROLLED FROM HIGH CARBON STEEL. POSTS SHOULD BE HOT-DIP GALVANIZED OR COATED WITH A WEATHER-RESISTANT PAINT FOR STEEL APPLICATION. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE. INSTALL PER DETAILS ON THIS SHEET.
- PLACE T-POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION EELS. T-POSTS ARE TO BE EMBEDDED A MINIMUM OF 2 FT INTO GROUND.

NOTE: SLIGHTLY ANGLE STAKES WITH TOP FACING TOWARDS DIRECTION OF FLOW.

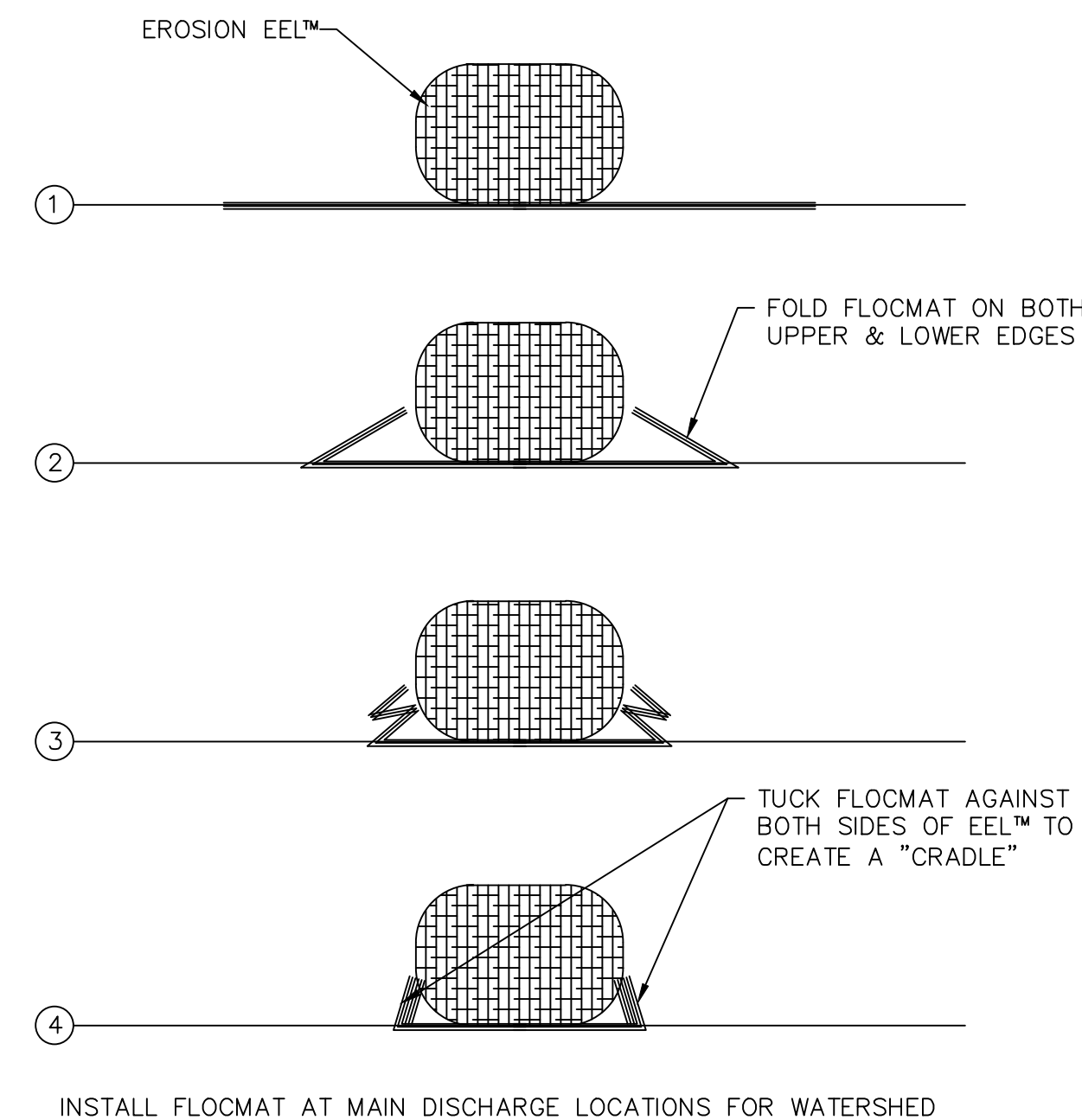
NOTE: TIE FLOC LOGS SECURELY AT CENTERLINE OF FLOW ON DOWNSTREAM SIDE.



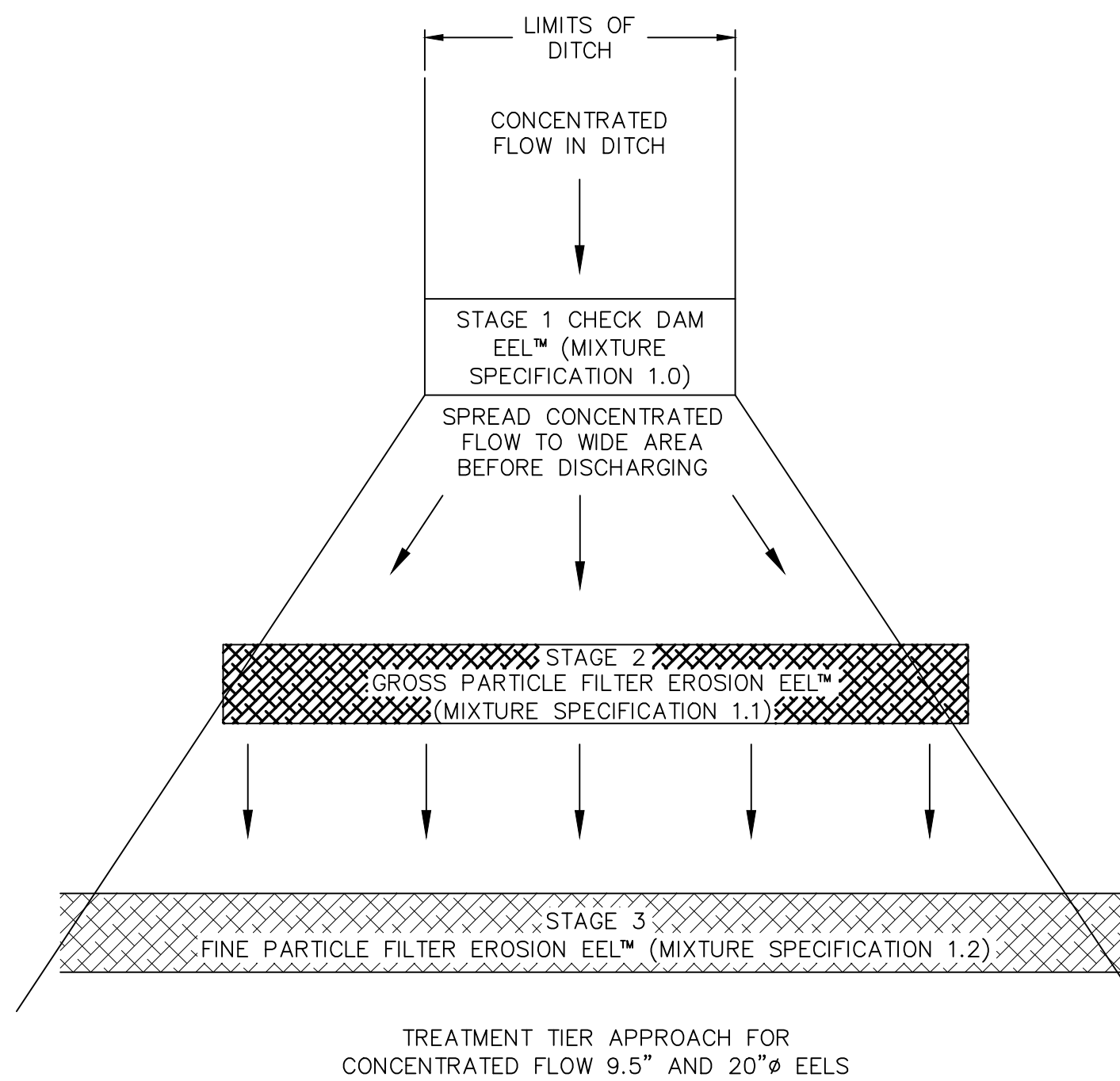
SECTION A-A
SMALL DITCH CHECKS FOR 9.5" AND 20" EELS

NOTE: APPLICABLE TO SMALL WIDTH DITCHES WITH TOTAL WIDTH THAT REQUIRES ONLY ONE 10' EEL* TO SPAN.

EROSION EEL DETAIL
N.T.S.

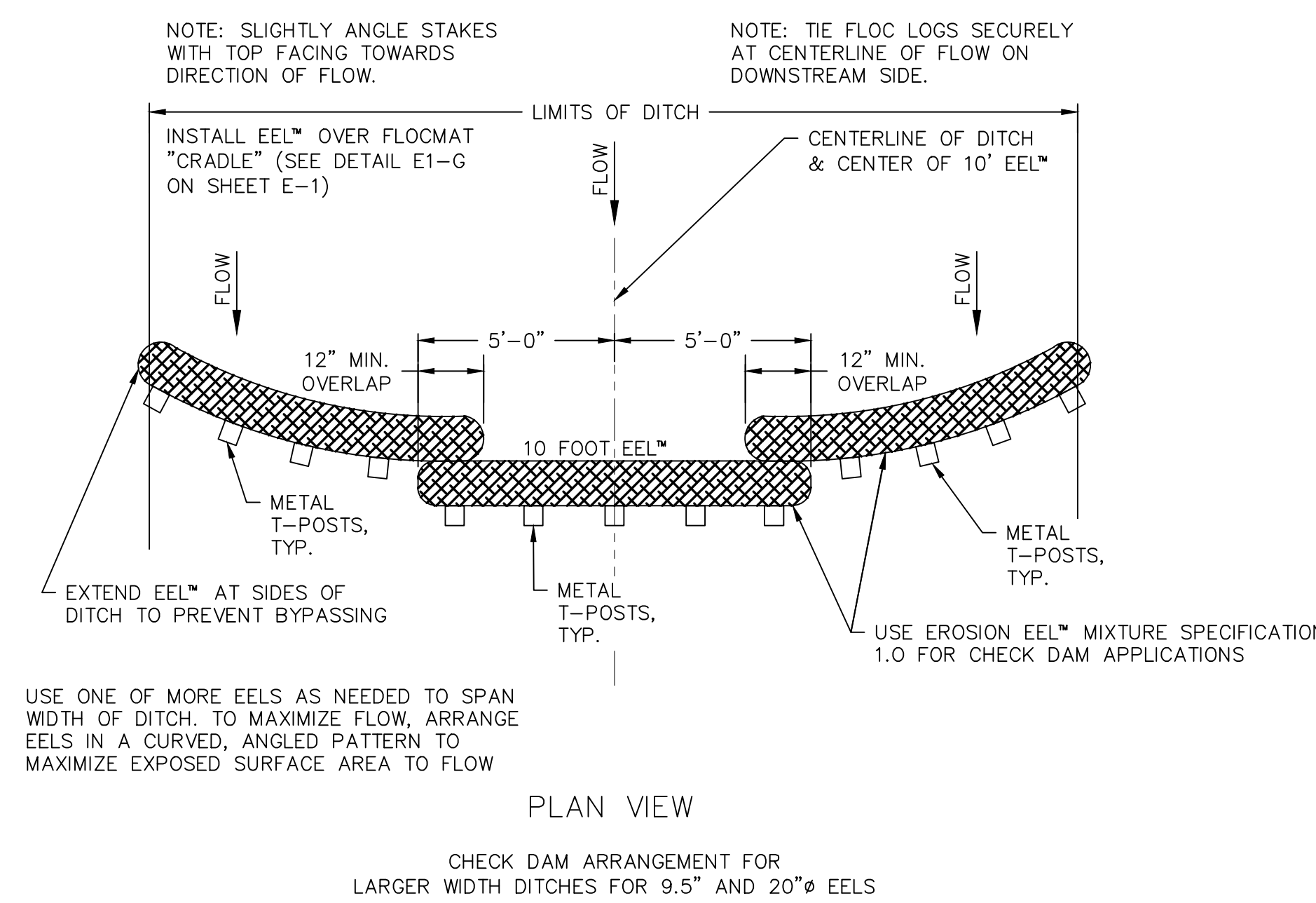


FLOCMAT DETAIL FOR GUTTER EEL
N.T.S.



NOTE:
1. PLACE CHECK DAM EELS (MIXTURE 1.0) UPSLOPE OF EELS WITH MIXTURES 1.1 OR 1.2.
2. EELS WITH MIXTURE 1.1 SHOULD ALWAYS BE PLACED UPSLOPE OF EELS WITH FINE PARTICLE MIXTURE 1.2.

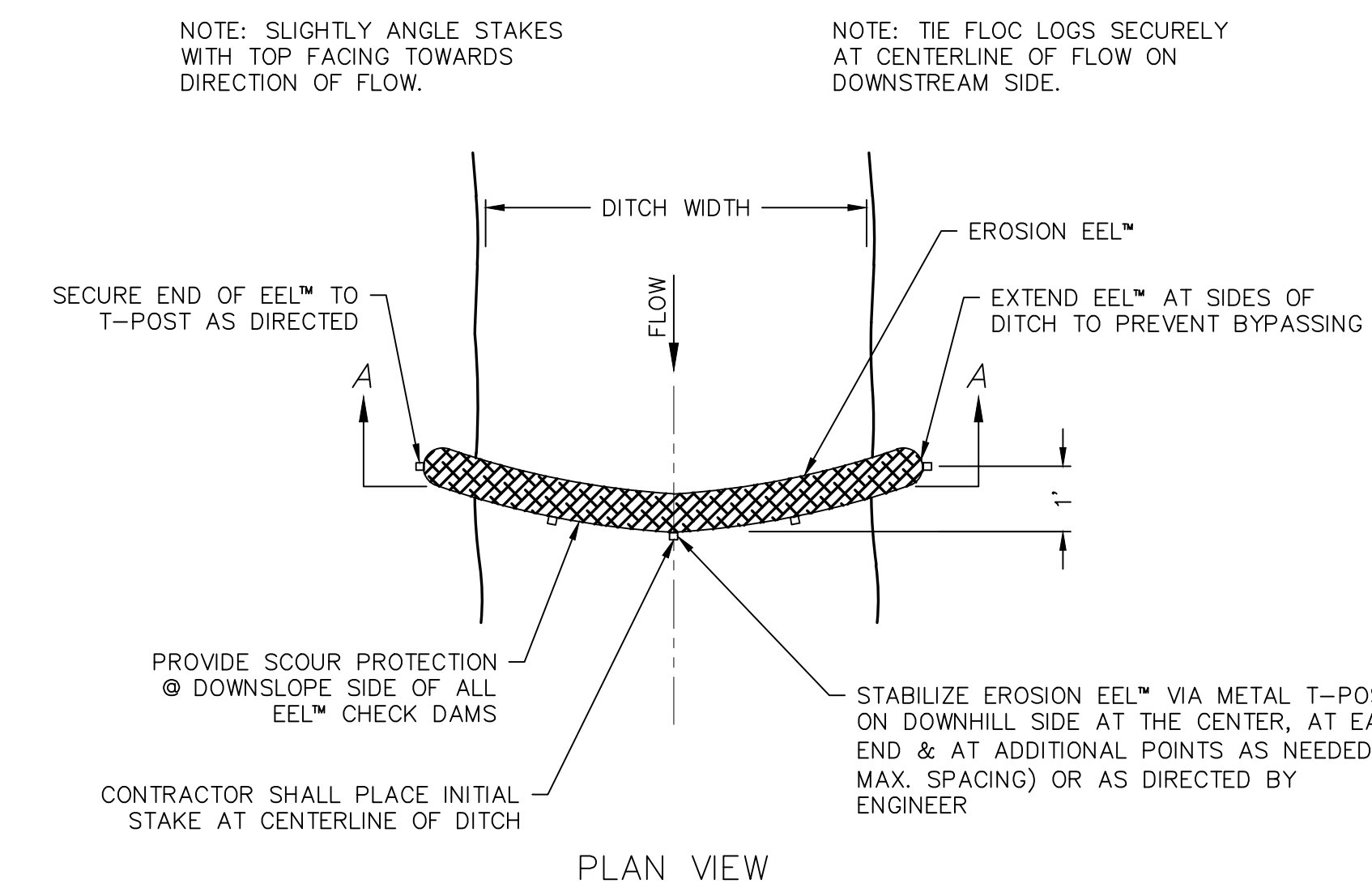
EROSION EEL DITCH OUTLET DETAIL
N.T.S.



NOTE: APPLICABLE TO LARGE WIDTH DITCHES WHERE ONE EEL* IS NOT SUFFICIENT TO SPAN LENGTH.

MINIMIZE OVERLAP LENGTH IN CHECK DAM APPLICATIONS TO MAXIMIZE FLOW-THROUGH CAPACITY. IN LIEU OF OVERLAPS, EEL CAN BE USED PER DETAILS.

EROSION EEL DETAIL
N.T.S.



SMALL DITCH CHECKS SINGLE EEL* (NO STACKING) FOR 9.5" AND 20" EELS

NOTE: EROSION EEL* USED FOR CHECK DAMS SHALL USE MIXTURE SPECIFICATION 1.0.

NOTE: APPLICABLE TO SMALL WIDTH DITCHES WITH TOTAL WIDTH THAT REQUIRES ONLY ONE 10' EEL* TO SPAN.

EROSION EEL DETAIL
N.T.S.

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-23-2023

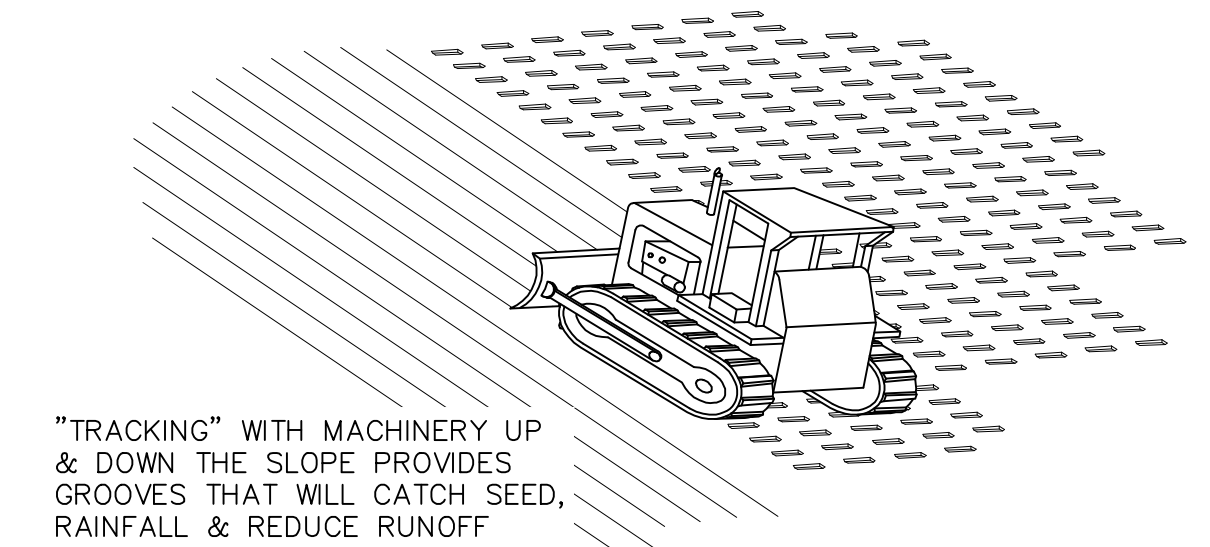
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

EROSION CONTROL DETAILS

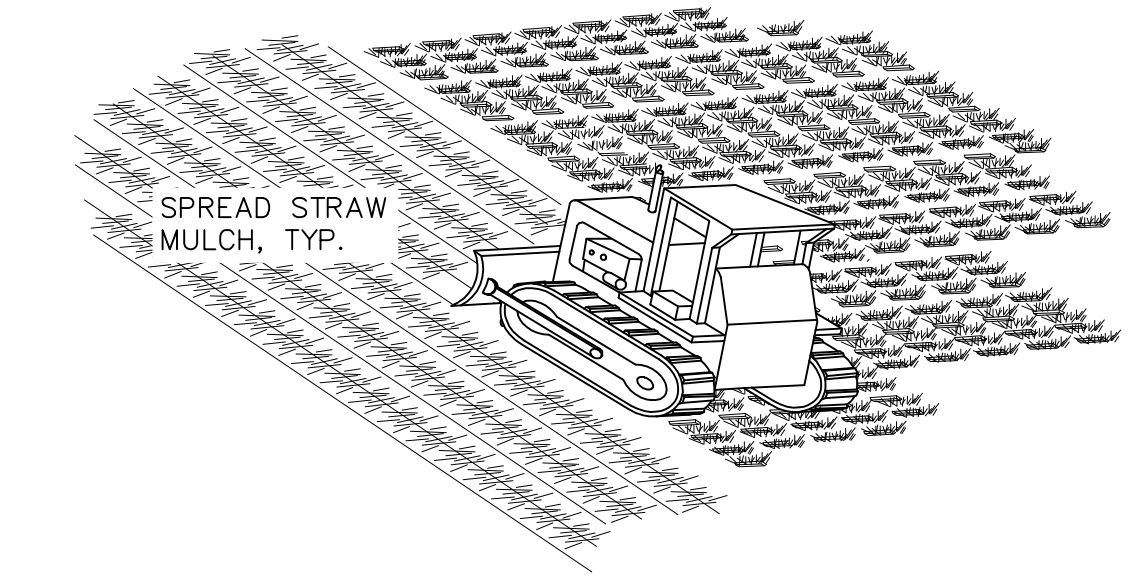
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C-903

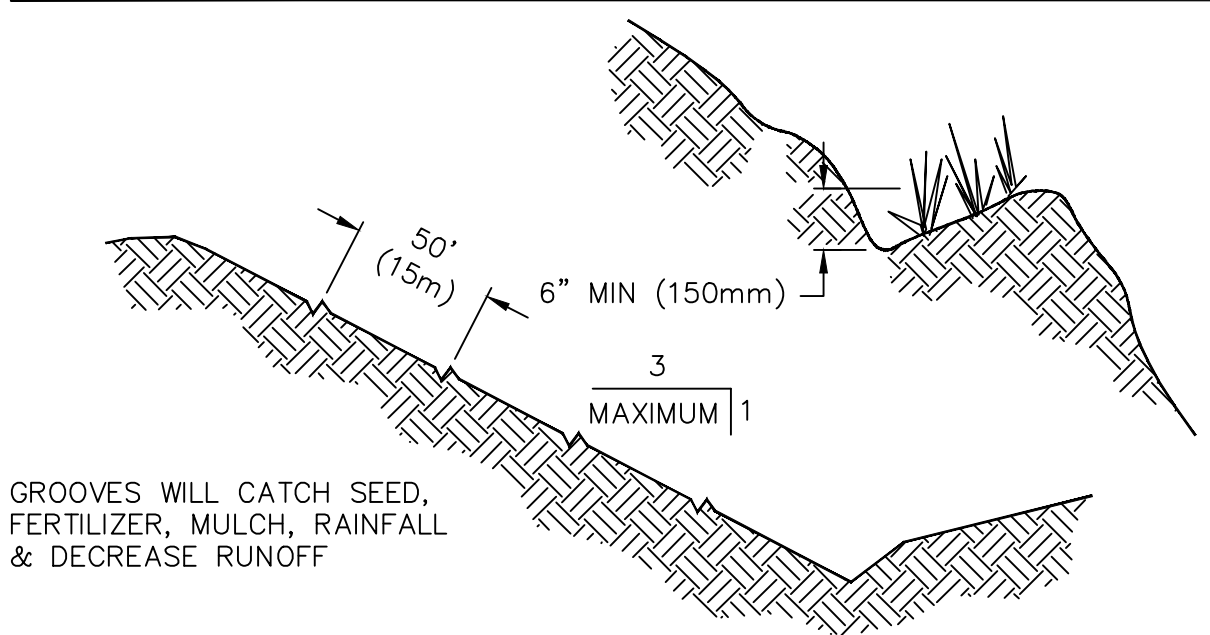
CONFORMANCE DOCUMENTS



TRACKING
N.T.S.



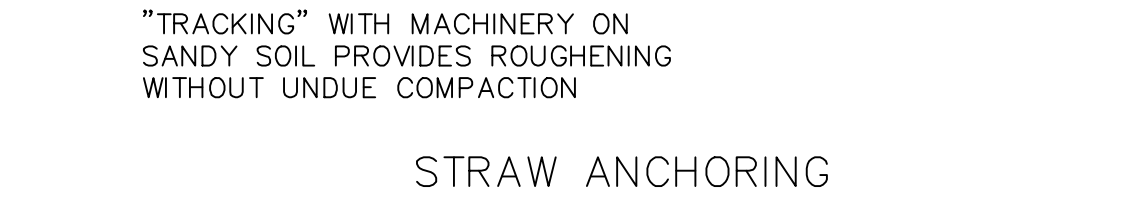
SPREAD STRAW MULCH, TYP.



CONTOUR FURROWS
N.T.S.



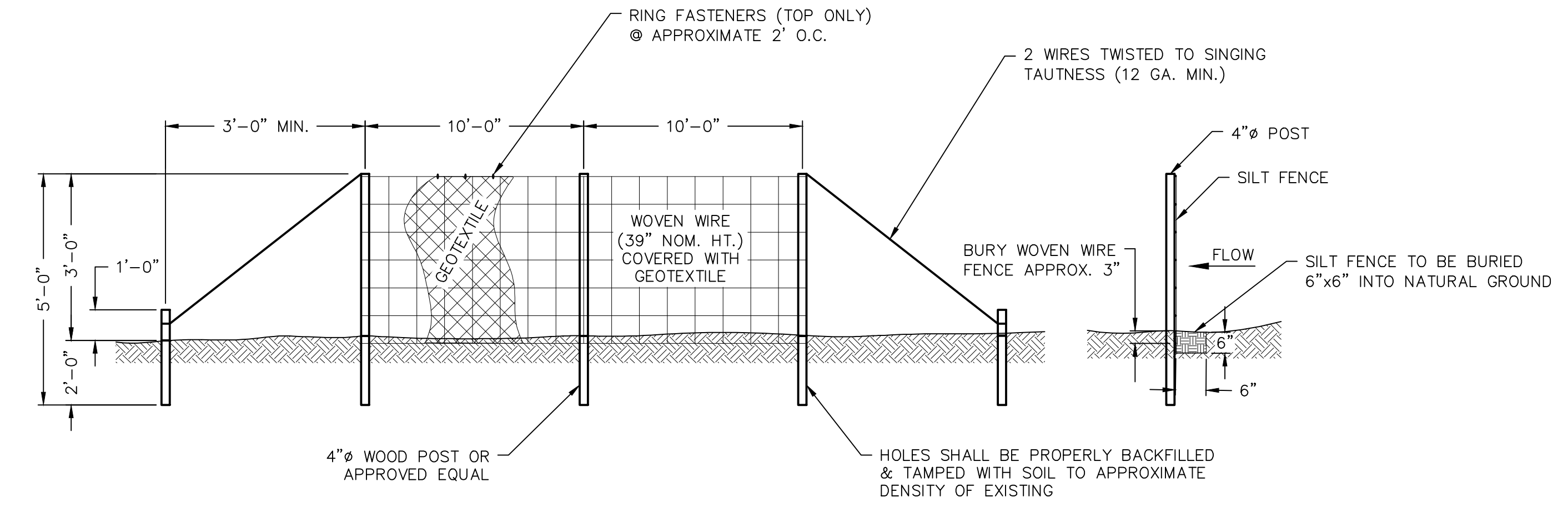
SURFACE ROUGHENING
N.T.S.



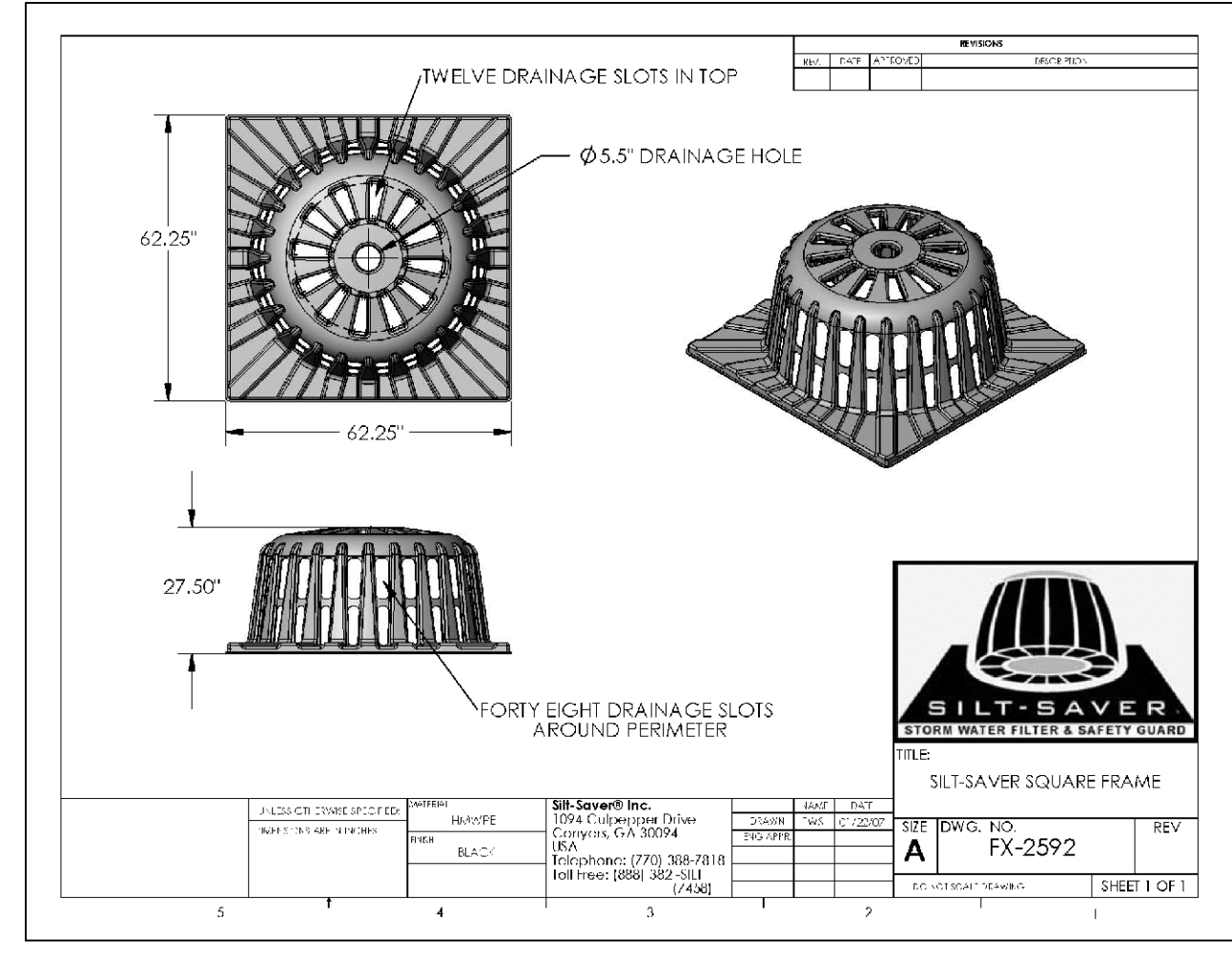
STRAW ANCHORING
N.T.S.

- NOTES:
 1. ROUGHEN SLOPE WITH BULLDOZER.
 2. BROADCAST SEED AND FERTILIZER.
 3. SPREAD STRAW MULCH 3" (76mm) THICK, (1 1/2 TO 2 TONS PER ACRE).
 4. PUNCH STRAW MULCH INTO SLOPE BY RUNNING BULLDOZER UP AND DOWN SLOPE.

STRAW ANCHORING
N.T.S.



TYPE "A" SILT FENCE & INSTLLATION
N.T.S.



SILT-SAVER DETAIL
N.T.S.

Zone 2 - Areas Subject to Frequent Mowing
Required Pounds Per Acre of Pure Live Seed

Date of Planting	Jan 1 to Feb 15		Feb 15 to Apr 15		Apr 15 to Aug 1	
	Jan 1 to Feb 15	Feb 15 to Apr 15	Apr 15 to Aug 1	Aug 1 to Dec 31	Jan 1 to Feb 15	Feb 15 to Apr 15
Annual Ryegrass	25	25	25	25	25	25
Hybrid Bermuda Grass	15	15	15	15	15	15
Unimulched Bermuda Grass	15	15	15	15	15	15
Annual Lespedeza (Koba)	15	15	15	15	15	15
White Clover	15	15	15	15	15	15

* Requires seeding in stubble during the following month off each for the establishment of permanent plants

Zone 2

Autauga	Marion
Blount	Montgomery
Bullock	Perry
Chambers	Pickens
Chilton	Randall
Choctaw	Sumter
Cleburne	Tallapoosa
Dallas	Tuscaloosa
Elmore	Wilcox
Greene	
Hale	
Lee	
Lewis	
Macon	

Temporary Seeding
September through December

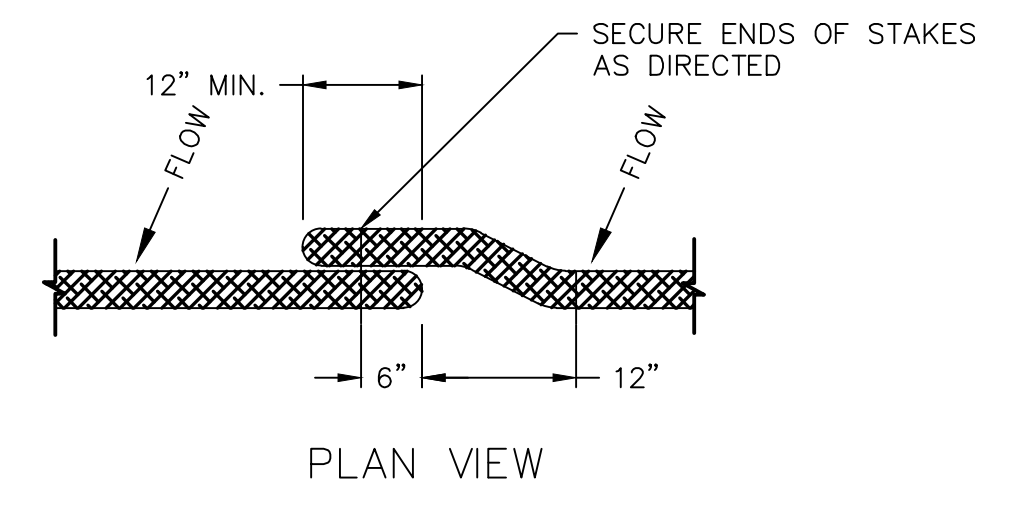
Annual Ryegrass	25 pounds per acre
Kentucky 31 Fescue	30 pounds per acre
Reseeding Crimson Clover	10 pounds per acre

January through April 15

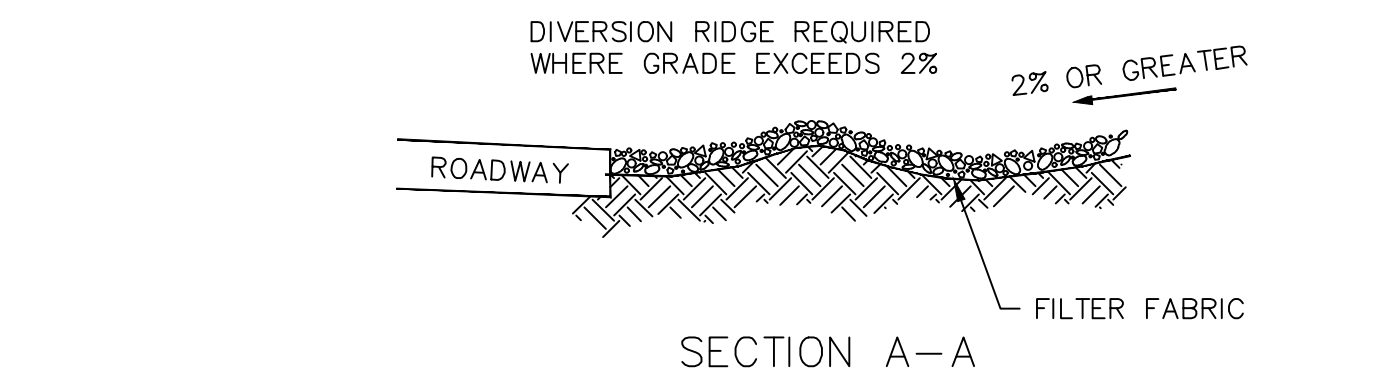
Kentucky 31 Fescue	30 pounds per acre
Reseeding Crimson Clover	30 pounds per acre
Annual Ryegrass	15 pounds per acre

April 15 through August

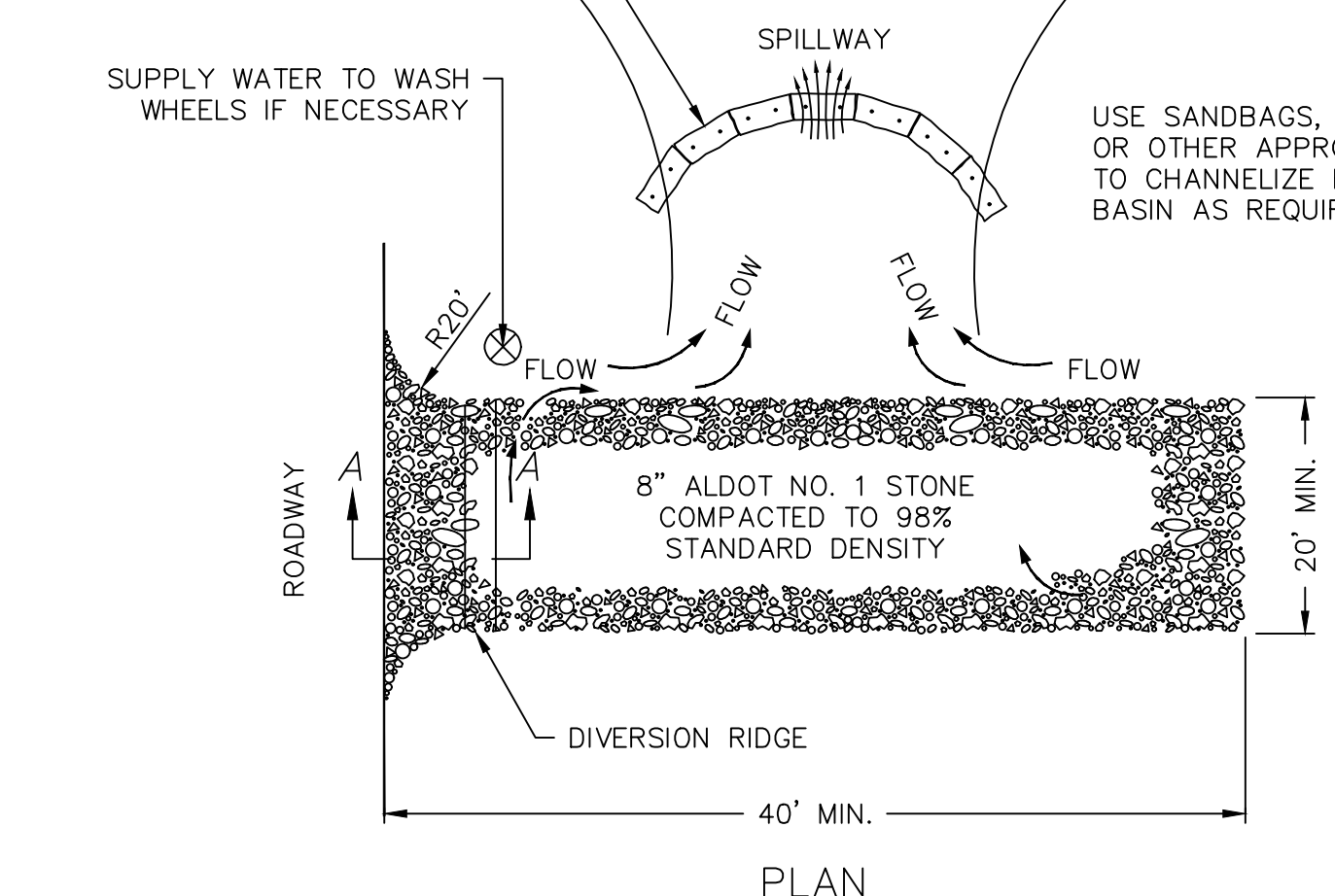
Brown Top Millet	30 pounds per acre
Kentucky 31 Fescue	30 pounds per acre
Hybrid Bermuda Grass	10 pounds per acre



OVERLAP/JOINT DETAIL
N.T.S.



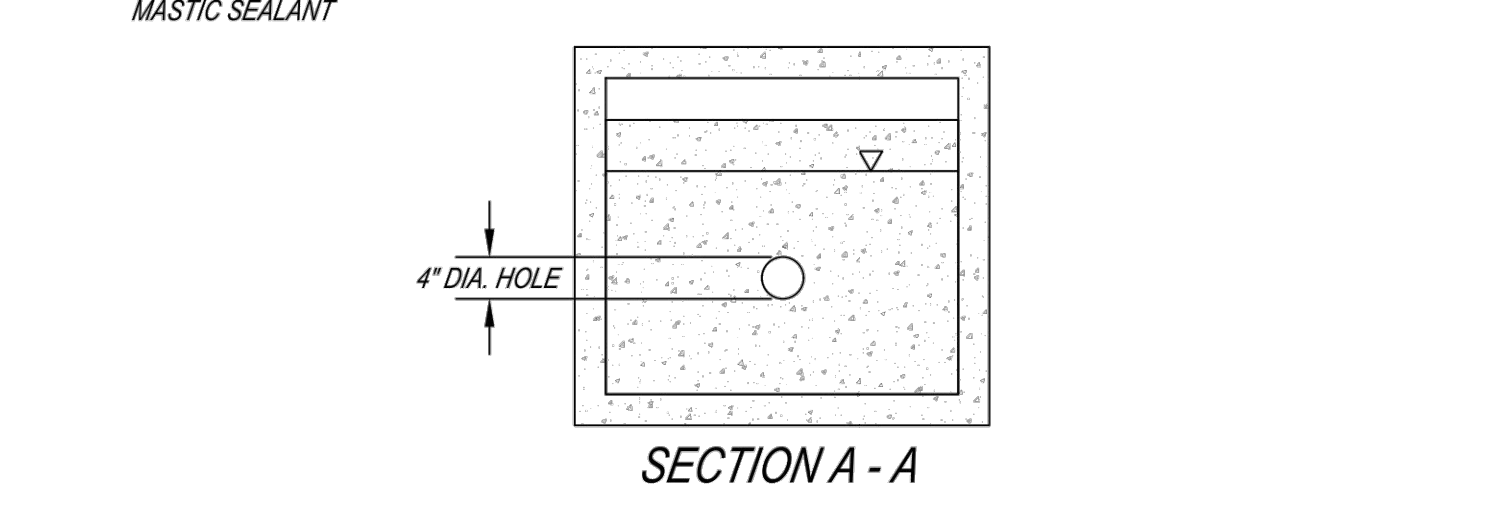
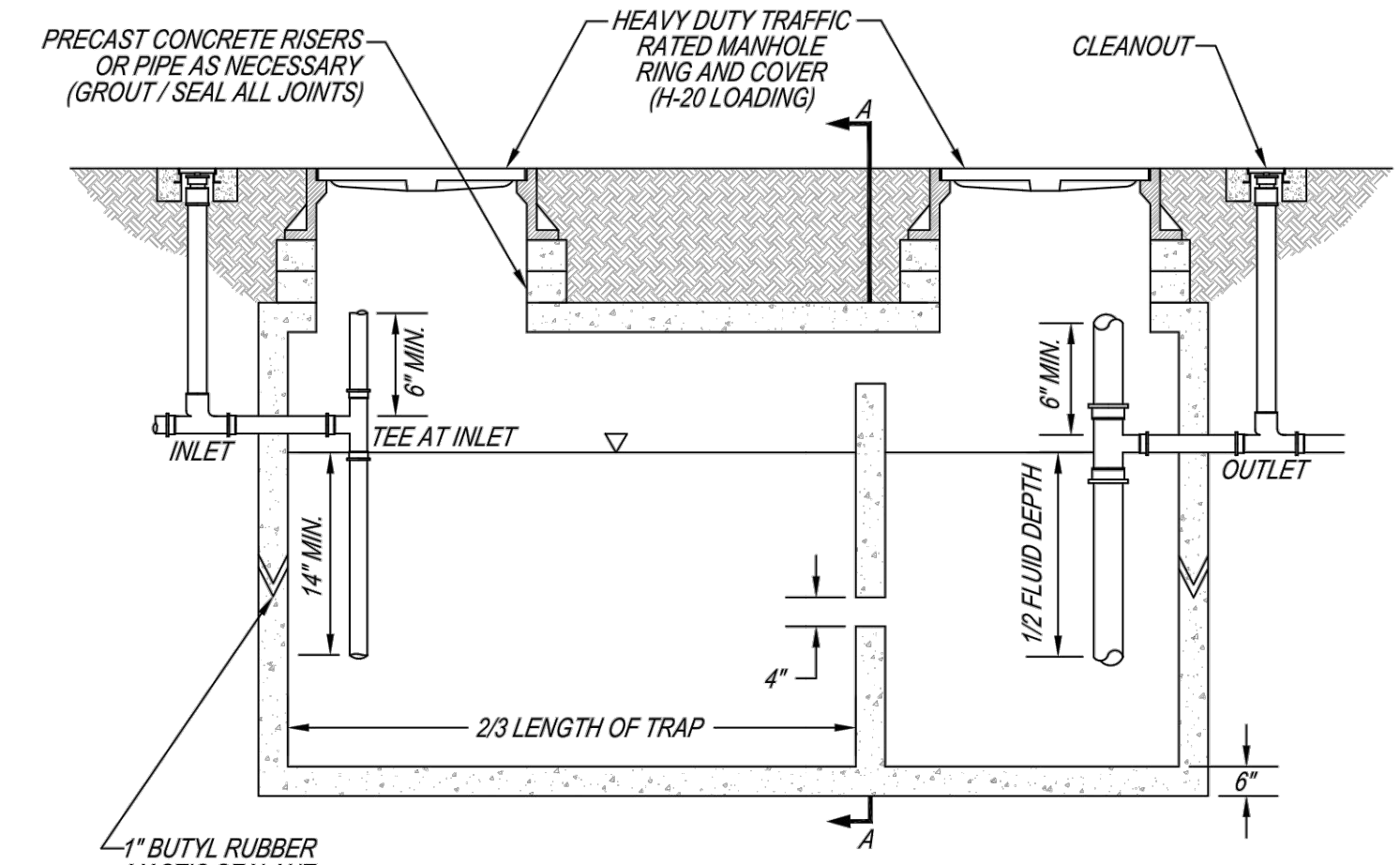
SECTION A-A



PLAN

- NOTES:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT F ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

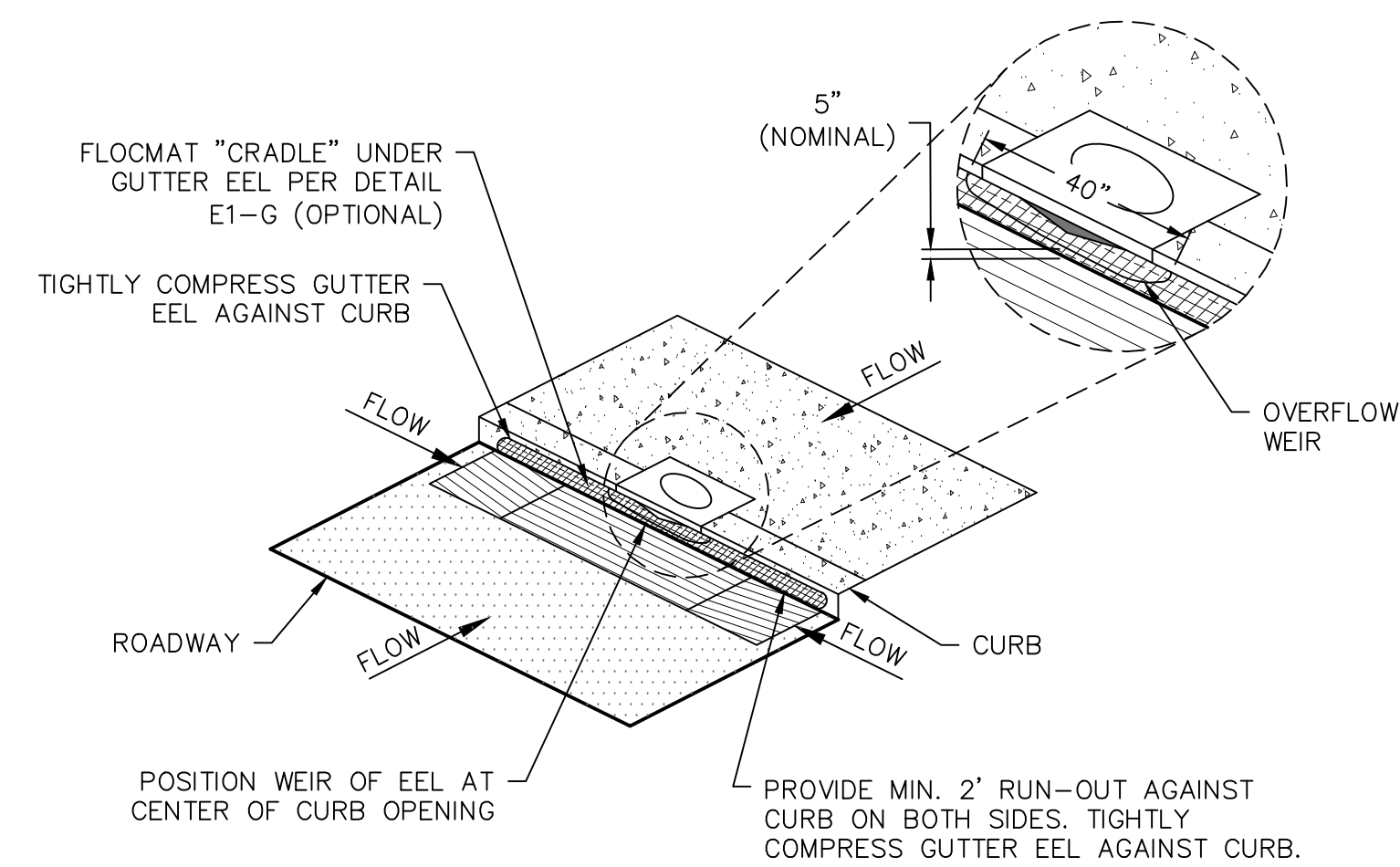
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD
N.T.S.



SECTION A - A

- NOTES:
 1. MANHOLE RING AND COVERS SHALL NOT BE COVERED, OR OBSCURED BY LANDSCAPING, PAVEMENT, ETC.
 2. INLET AND OUTLET PIPES SHALL BE SCHEDULE 40 PVC, AND SHALL NOT BE COVERED OR CAPPED.
 3. INLET PIPE MUST BE A MINIMUM OF 4" DIAMETER. VERTICAL PIPE ON OUTLET SIDE MUST BE A MINIMUM OF 6" IN DIAMETER.
 4. SEPARATOR SHALL NOT BE LOCATED IN AN ENTRANCE, EXIT, DRIVE-THRU, OR UNDER A MENU BOARD.
 5. MINIMUM SIZE: 1000 GALLONS.

OIL/SAND SEPARATOR DETAIL
N.T.S.



ISOMETRIC DETAIL E3-C: SMALL CURB INLET SEDIMENT TRAP - GUTTER EEL
N.T.S.

- NOTE: PERIODIC MAINTENANCE SHALL INCLUDE CLEANING GUTTER EEL SURFACE WITH HIGH PRESSURE WASH OR BRUSHING SURFACE WITH BROOM.

REVISIONS

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-23-2023

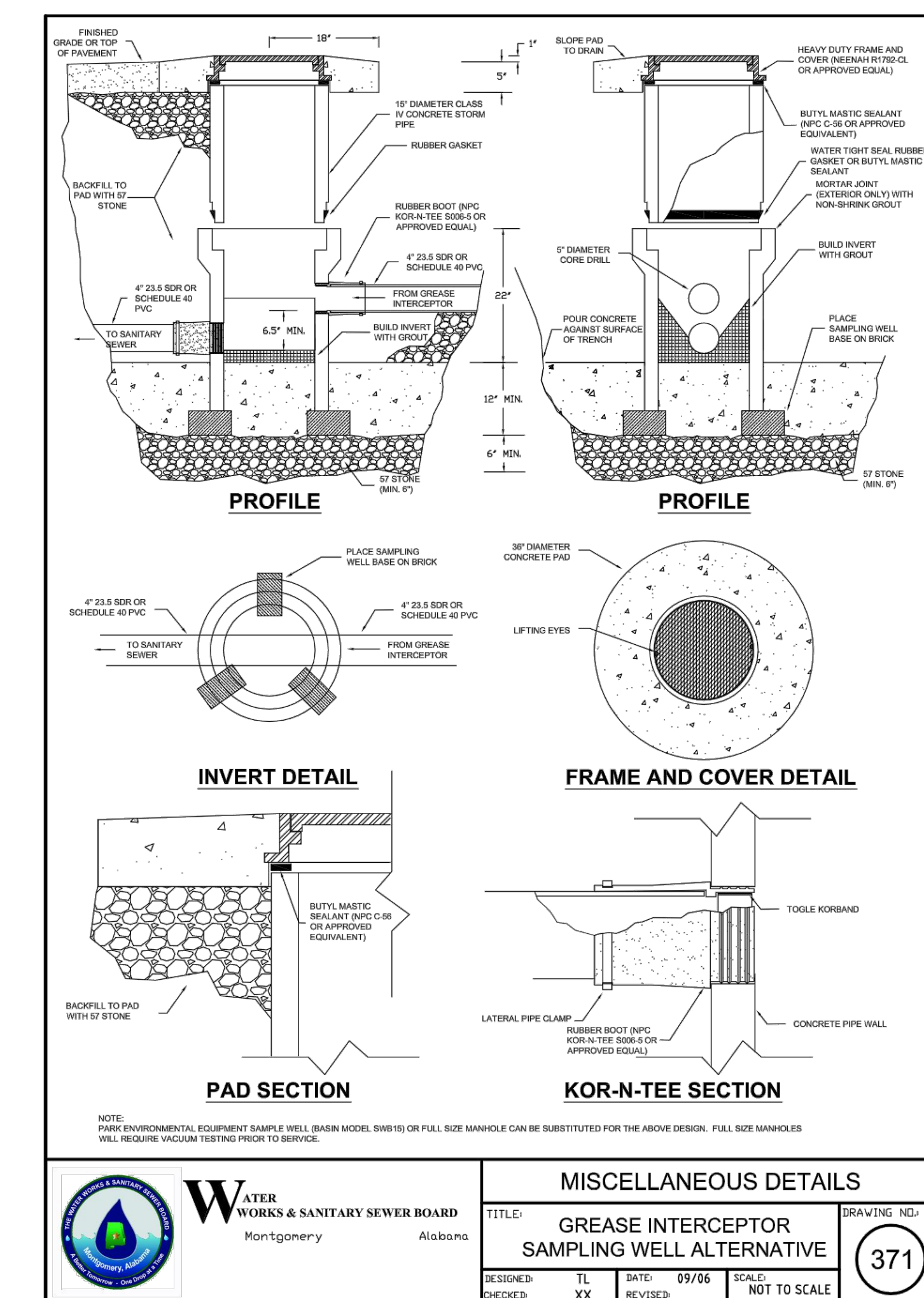
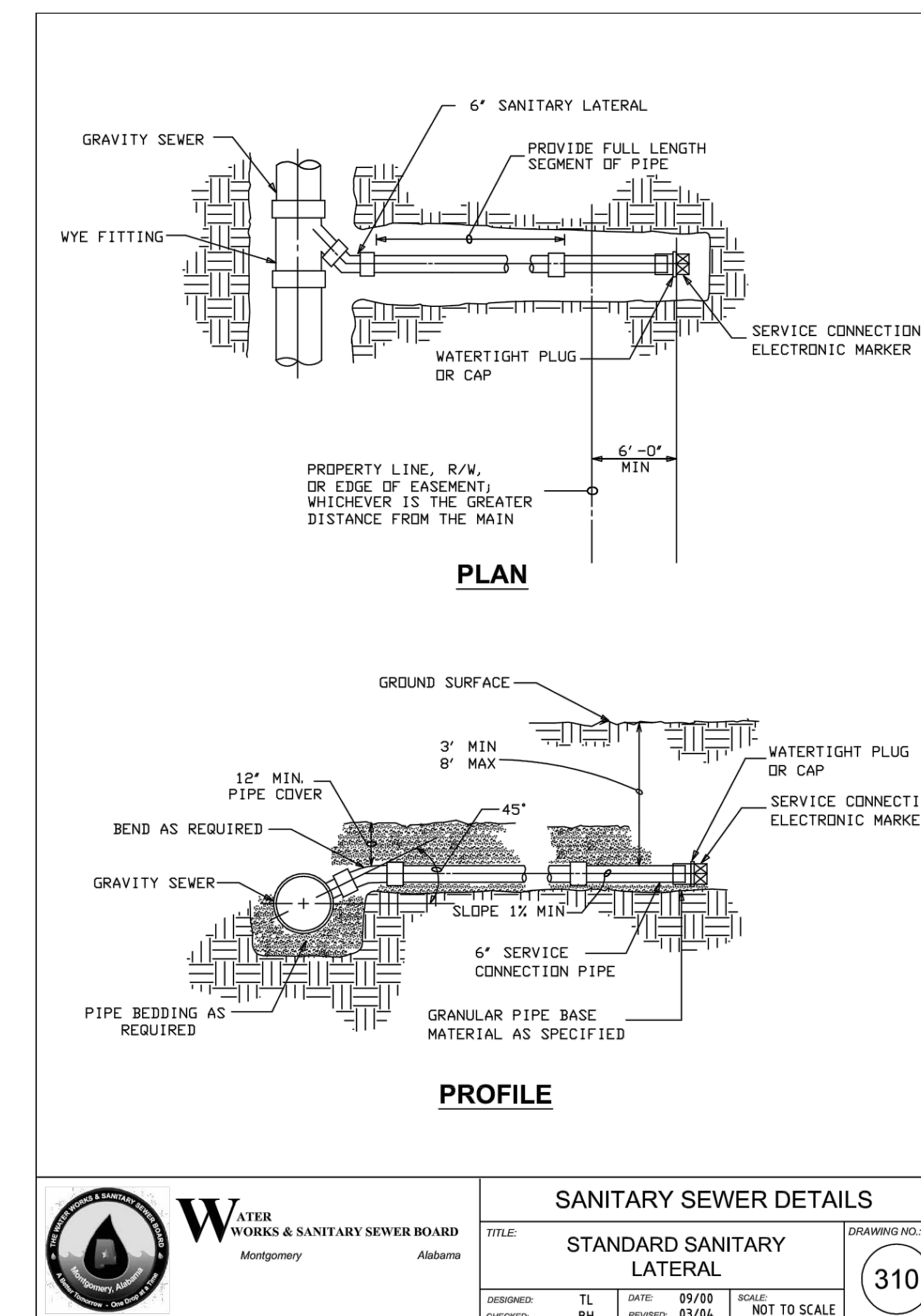
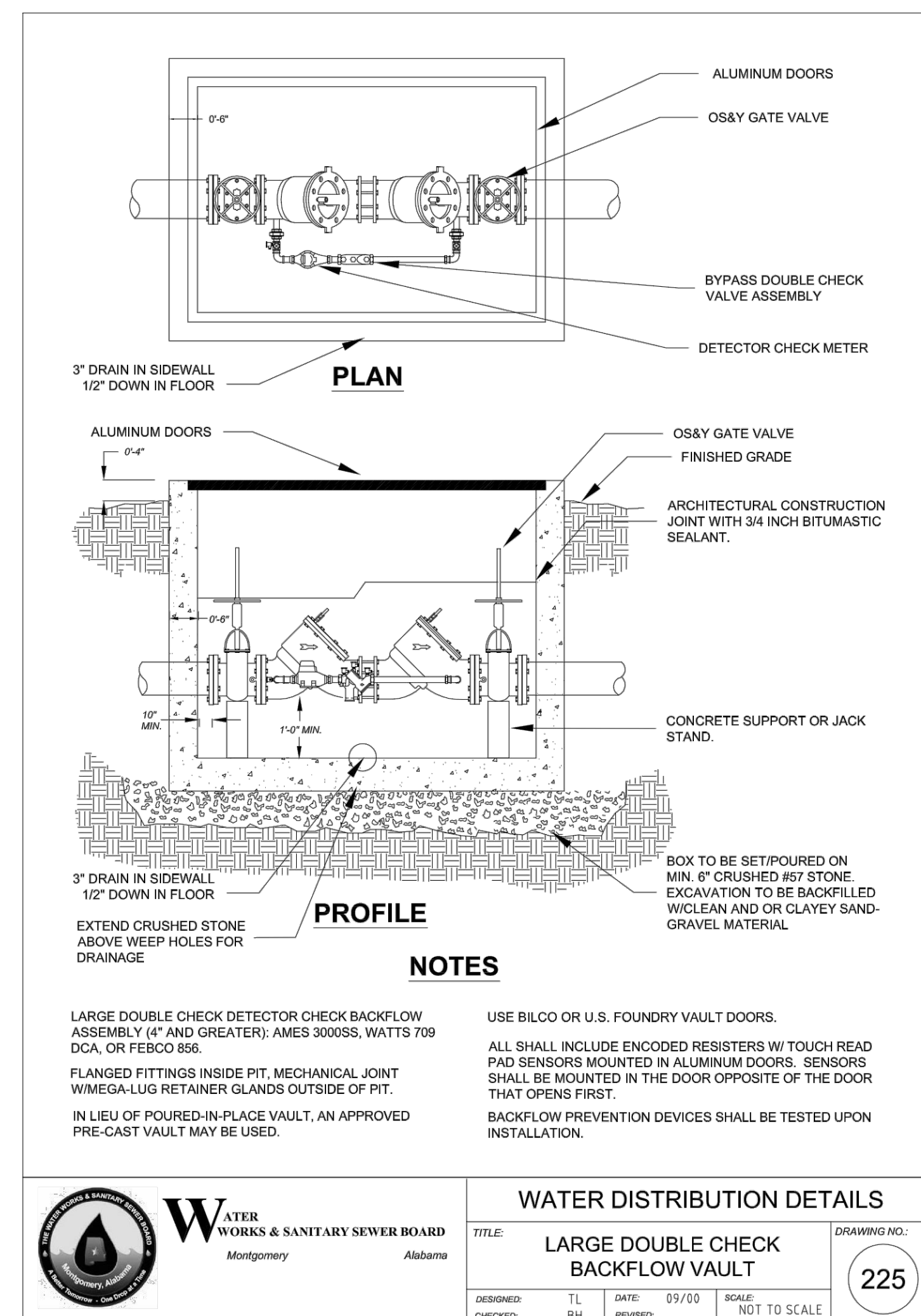
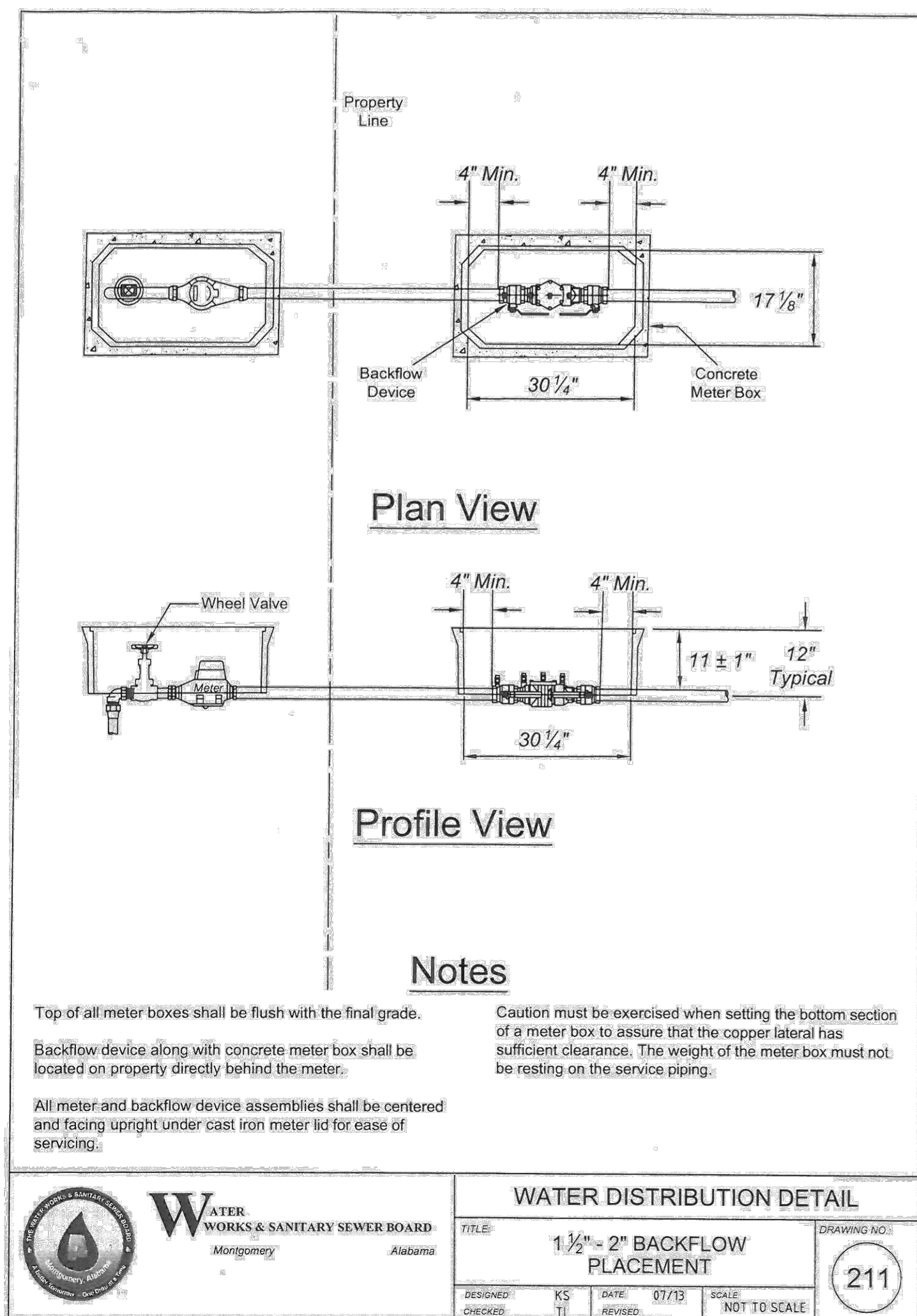
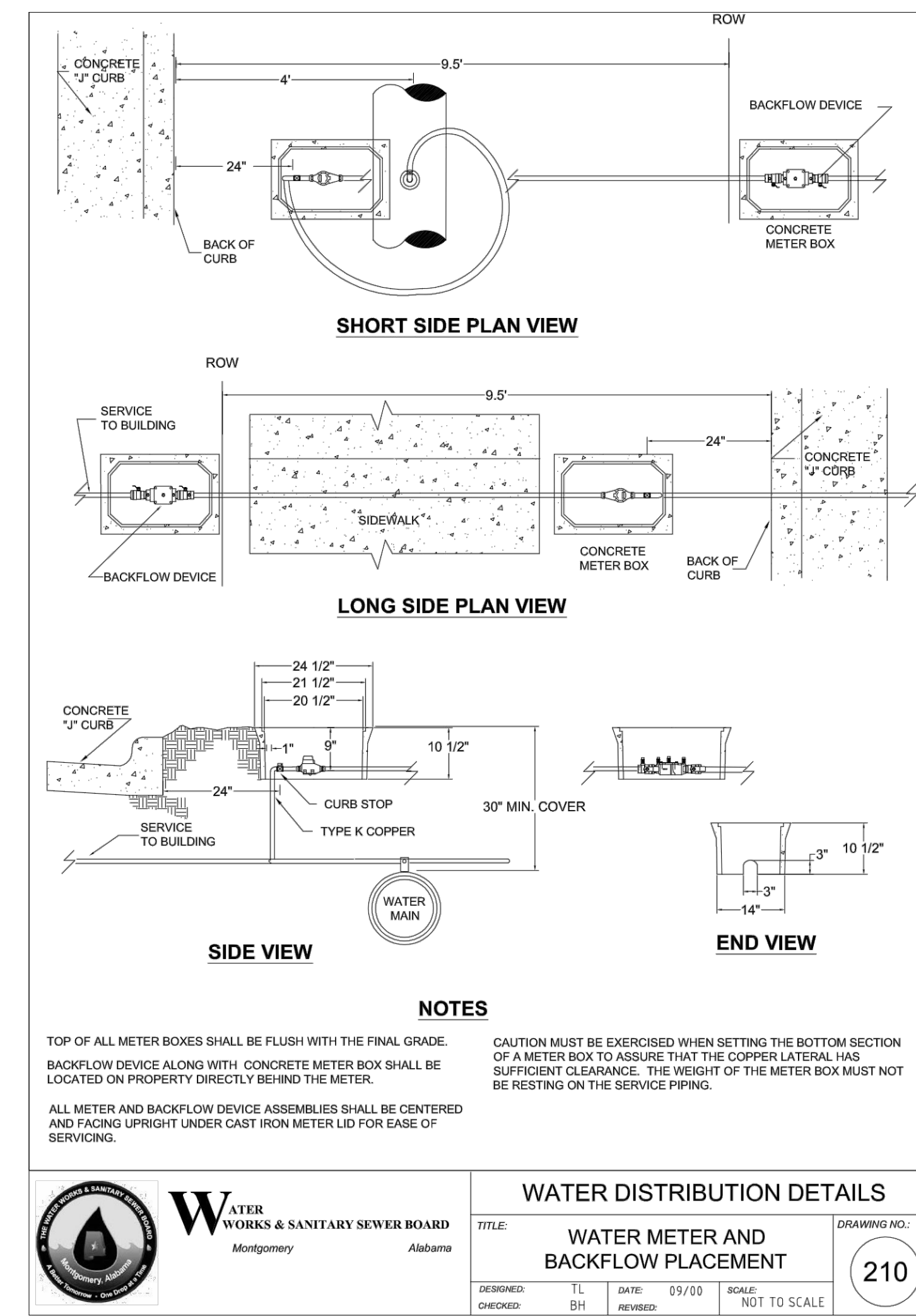
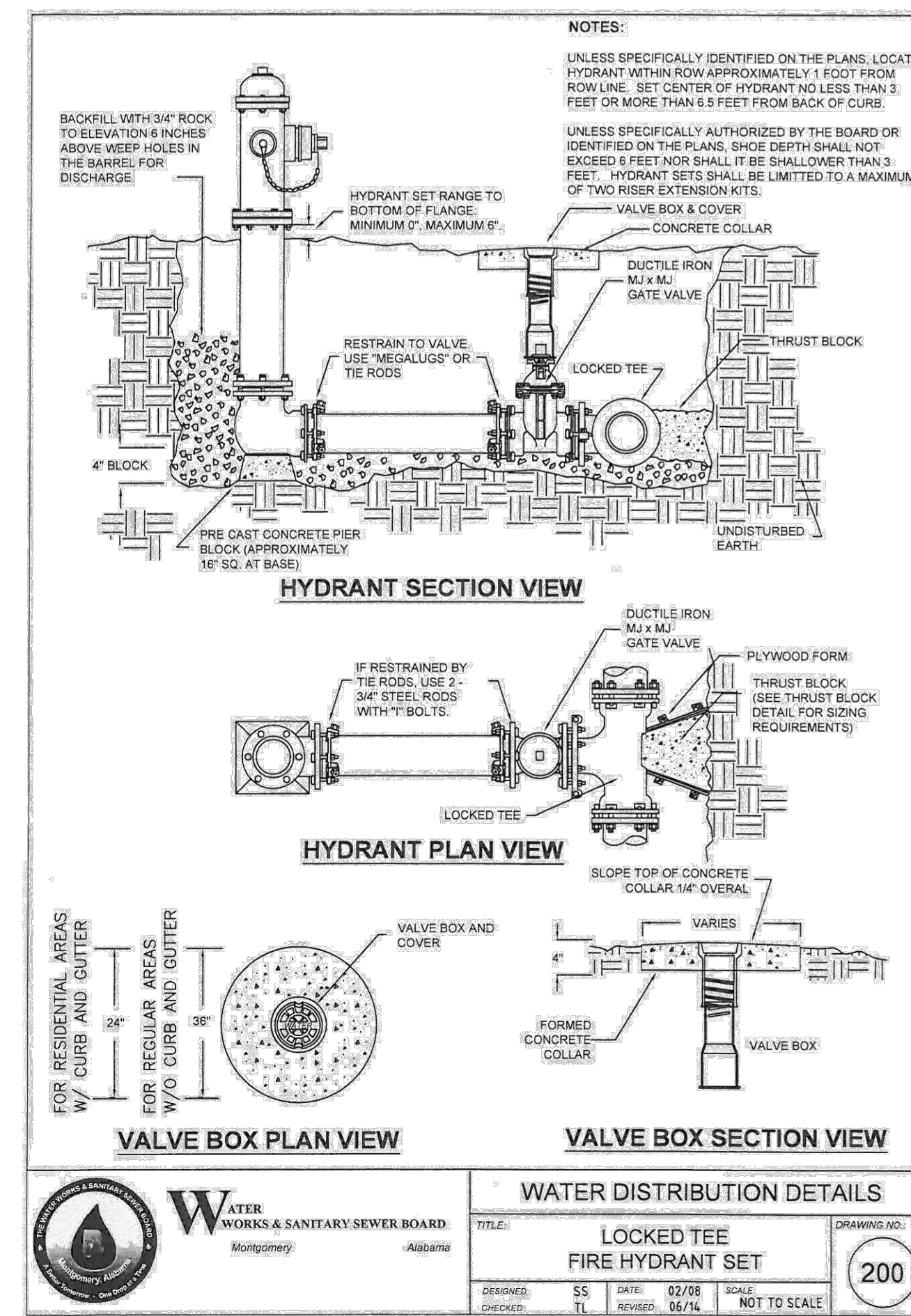
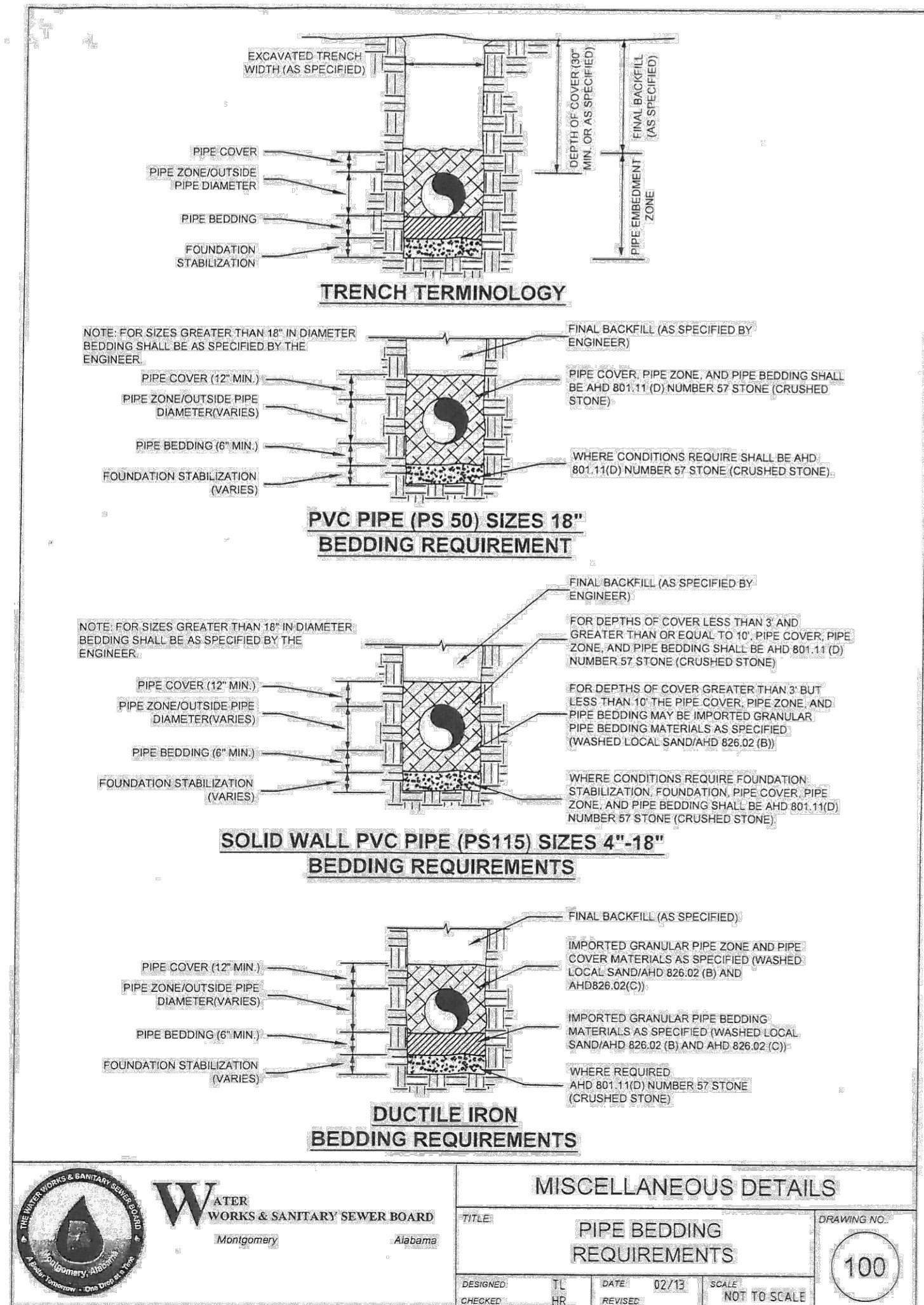
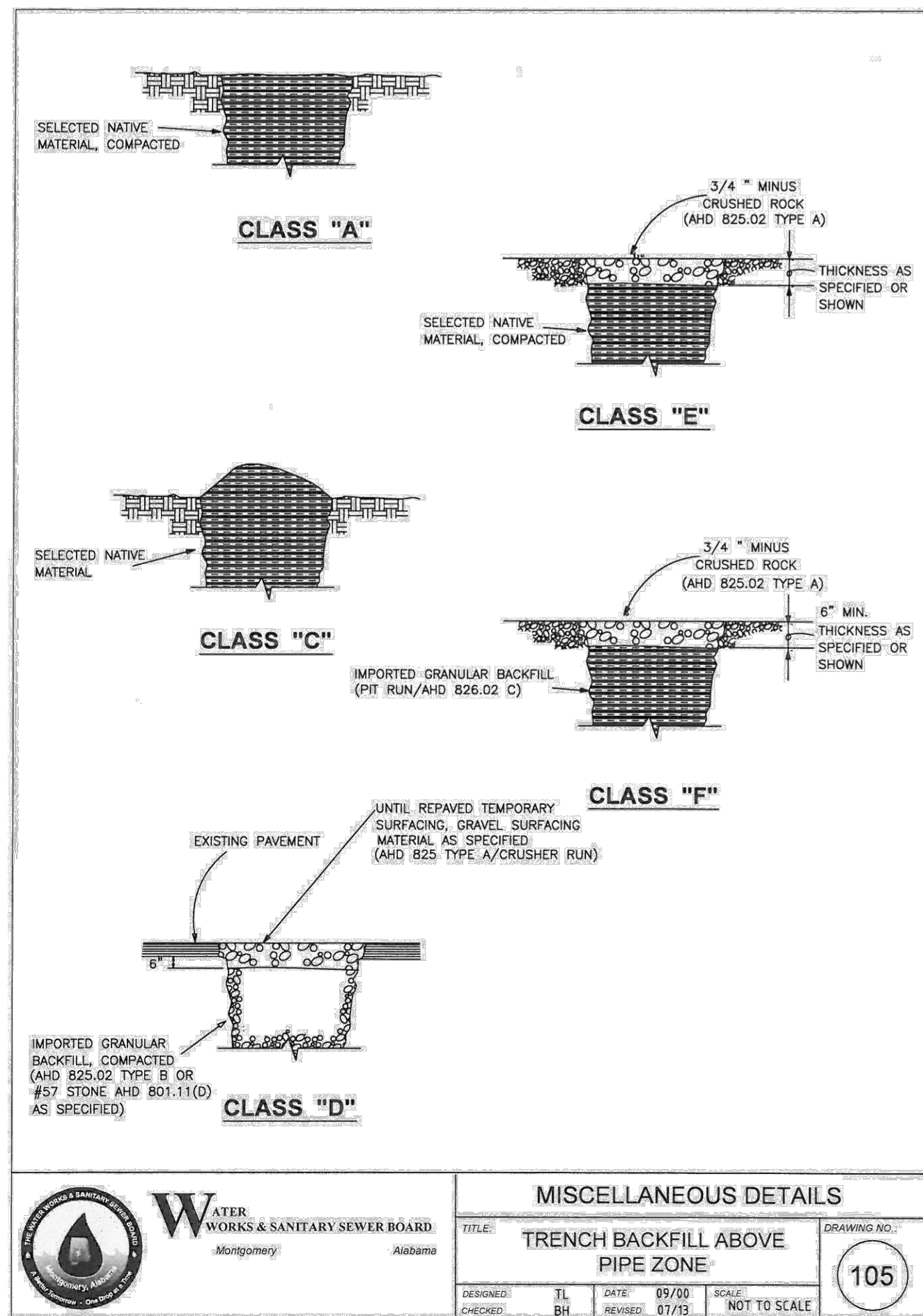
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 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED
 Drawing Title:

EROSION CONTROL DETAILS

Sheet No:

C-904

CONFORMANCE DOCUMENTS



REVISIONS	No.	Description	Date
1	Construction Documents	02-03-2023	
2	Conformance Documents	05-23-2023	

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

MWWSSB
DETAILS

Sheet No.

C-905

CONFORMANCE
DOCUMENTS

PLANT SCHEDULE - BASE BID						
TREES	QTY	BOTANICAL NAME	COMMON NAME	CAL. / HT.		REMARKS
CAR OCR	12	CARPINUS CAROLINIANA 'ORANGE CRUSH'	ORANGE CRUSH AMERICAN HORNBEAM	3.0' CAL.		
ILE OAK	4	ILEX X 'OAK LEAF'	OAK LEAF HOLLY	6'-8' HT.		FULL TO GROUND
LAG N40	2	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ GRAPE MYRTLE	8-10' HT.		MULTI-TRUNK, WHITE FLOWERS
QOU NUT	10	QUERCUS NUTTALLII	NUTTALL OAK	3.0' CAL.		
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
ABE RCR	22	ABELIA X 'ROSE CREEK'	ROSE CREEK ABELIA	3 GAL	42" o.c.	PINK FLOWERS
ILE BUR	142	ILEX CORNUTA 'BURFORDII NANA'	DWARF BURFORD HOLLY	7 GAL	48" o.c.	
ILE CRS	60	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY	7 GAL	42" o.c.	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SPACING	REMARKS
LIR SBL	838	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF	4" POT	18" o.c.	PURPLE FLOWERS
SOD/SEED	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SPACING	REMARKS
CYN T13	6,042	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS	SOD	S.Y.	

GENERAL PROJECT NOTES

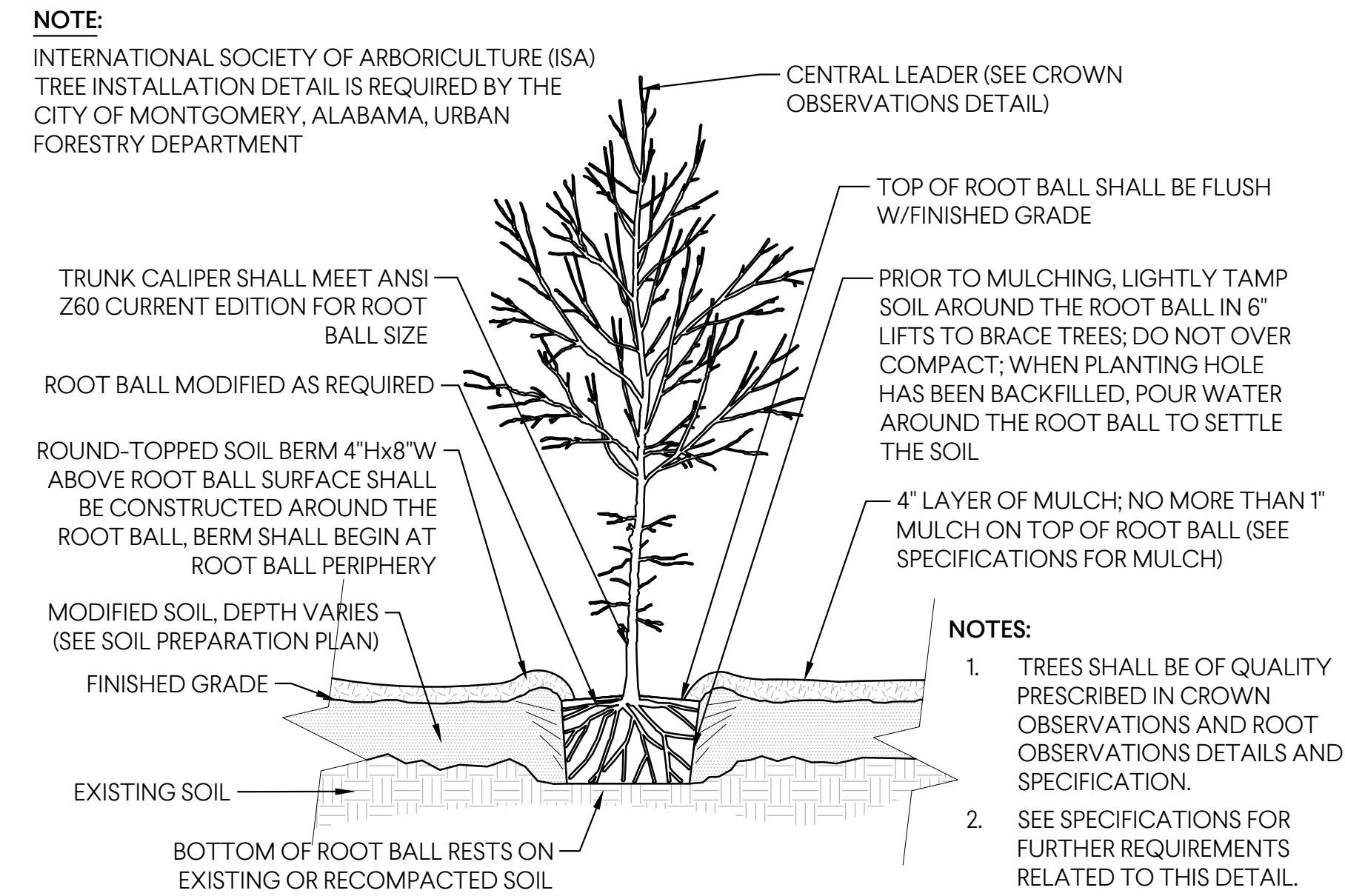
- CONTRACTOR SHALL EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO ONE ANOTHER AND CORRESPOND WITH ONE ANOTHER. ALL COSTS SUBMITTED SHALL BE BASED ON THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED. ANY DISCREPANCY AND/OR UNCERTAINTY AS TO WHAT MATERIAL/PRODUCT IS TO BE USED SHALL BE VERIFIED WITH THE OWNER OR THE LANDSCAPE ARCHITECT PRIOR TO BIDDING AND CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED BY GMC ARE PROVIDED FOR CONVENIENCE ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE. ANY DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING UTILITIES ARE TO BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE OWNER. GMC ASSUMES NO RESPONSIBILITY FOR ANY UTILITIES NOT SHOWN ON PLANS.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES REQUIRED FOR SAFE EXECUTION AND COMPLETION OF WORK, AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THESE DRAWINGS MAY INDICATE A LIMIT OF PROPOSED IMPROVEMENTS, LIMITS OF SITE DEMOLITION, ETC. FOR DELINEATION OF EXPECTED EXTENTS OF DISTURBANCE. FINAL IMPACT SHALL BE DETERMINED IN THE FIELD. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL WORK DISTURBED BY CONSTRUCTION TO A CONDITION BETTER THAN OR EQUAL TO THE CONDITIONS THAT EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A COMPLETE UP-TO-DATE SET OF DRAWINGS AND SPECIFICATIONS AT THE CONSTRUCTION SITE AND ENSURING THE DOCUMENTS ARE READILY AVAILABLE FOR REVIEW BY THE LANDSCAPE ARCHITECT AND GOVERNING AGENCIES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES.
- DIMENSIONS ARE TO FACE OF OBJECT, UNLESS OTHERWISE NOTED.

GENERAL LANDSCAPE NOTES

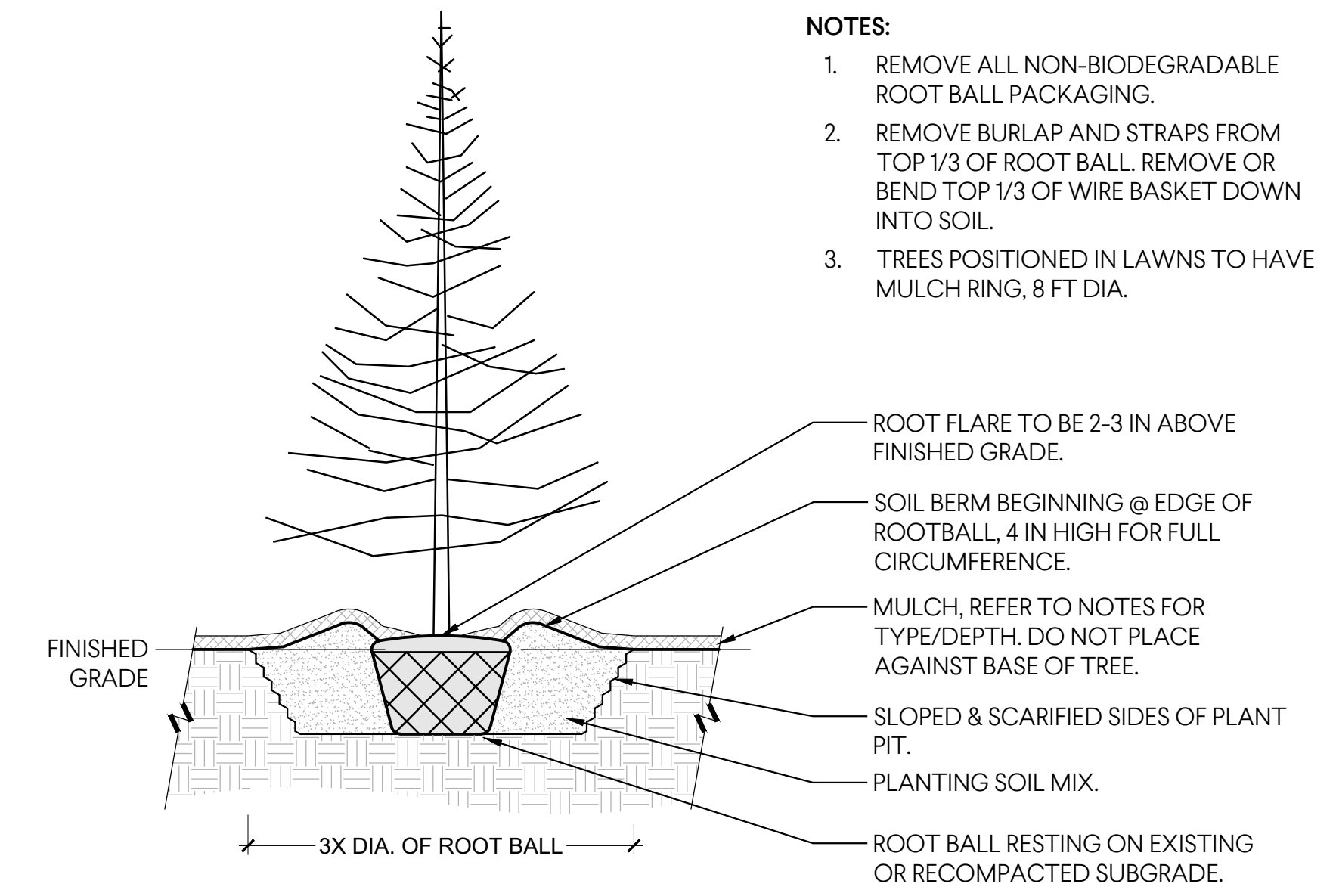
- CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS & RELATED EXISTING CONDITIONS, UTILITIES, STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION.
- CONTRACTOR'S BASE BID TO INCLUDE ALL MATERIALS, LABOR, PERMITS, EQUIPMENT, TOOLS, INSURANCE, ETC. TO PERFORM THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS.
- PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE LAWS, CODES, & REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK & PROVIDE PERMITS REQUIRED BY LOCAL AUTHORITIES.
- CONTRACTOR TO COMPLETE ALL WORK WITHIN SCHEDULE ESTABLISHED BY OWNER.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL WORK DISTURBED BY CONSTRUCTION TO A CONDITION BETTER THAN OR EQUAL TO THE CONDITIONS THAT EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
- SEE CIVIL DRAWINGS FOR INFORMATION REGARDING EROSION/SEDIMENT CONTROL, LOCATION OF EXISTING & PROPOSED STRUCTURES, PAVING, DRIVEWAYS, CUT & FILL AREAS, LIMITS OF CONSTRUCTION, EXISTING & PROPOSED UTILITIES OR EASEMENTS.

PLANTING SOIL & PREPARATION NOTES

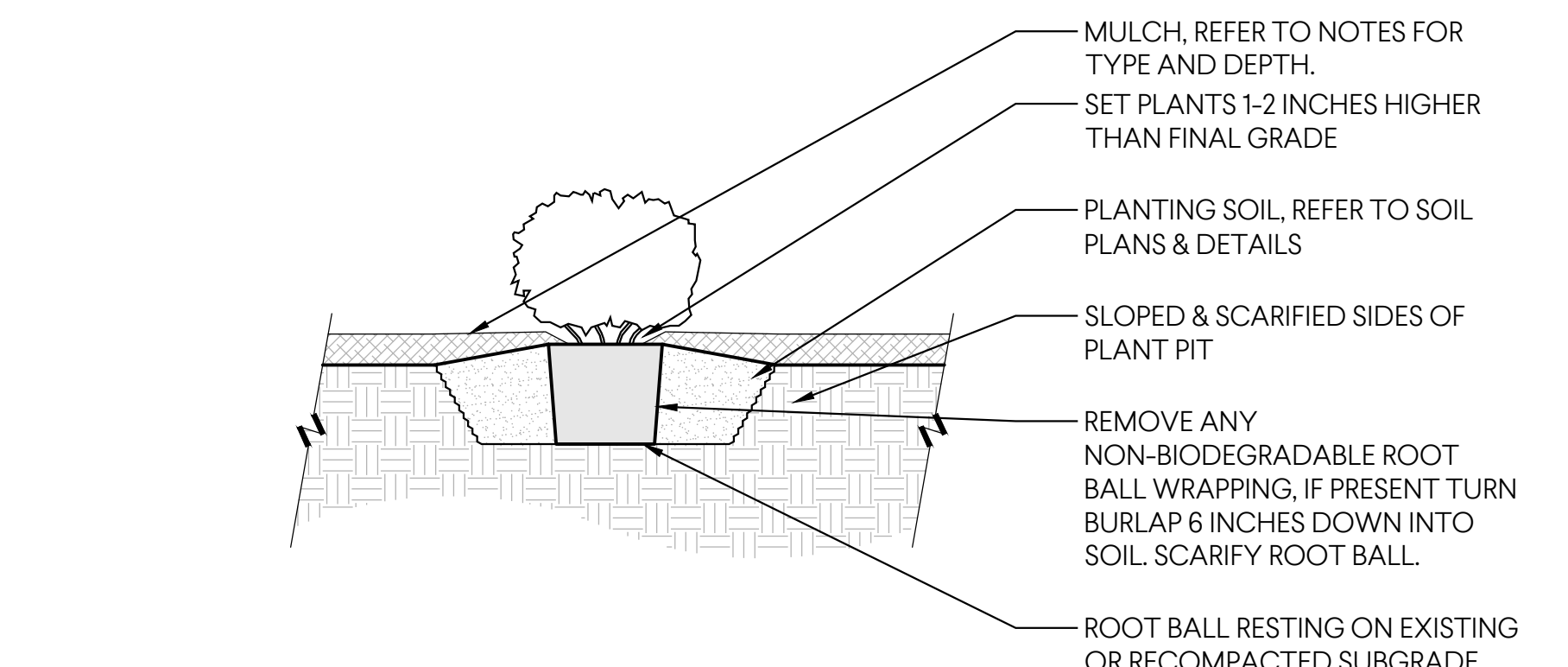
- CONTRACTOR SHALL CONDUCT & SUBMIT TO THE LANDSCAPE ARCHITECT AN ANALYSIS OF A MINIMUM OF (3) SAMPLES OF EXISTING SOIL FROM AREAS TO BE PLANTED. THE ANALYSIS SHALL BE DONE BY A SOIL TESTING LAB APPROVED BY THE LANDSCAPE ARCHITECT IN ADVANCE AND SHALL INCLUDE THE FOLLOWING RESULTS WITH RECOMMENDATIONS:
 - S1A - ORGANIC MATTER, AVAILABLE PHOSPHORUS, EXCHANGEABLE POTASSIUM, MAGNESIUM, CALCIUM, SOIL pH, CATION EXCHANGE CAPACITY, PERCENT BASE SATURATION OF CATION ELEMENTS.
 - S3 - SULFUR, ZINC, MANGANESE, IRON, COPPER, BORON
 - TEXTURE ANALYSIS
- TOPSOIL (& PLANTING SOIL WHEN DIFFERENT) SHALL BE PROVIDED MIXED AND READY FOR INSTALLATION. TOPSOIL SHALL MEET THE FOLLOWING CRITERIA & STRIPPED/STOCKPILED TOPSOIL MAY BE USED IF IT CAN REASONABLY BE BROUGHT UP TO THESE CRITERIA.
 - FERTILE, FRIABLE, NATURALLY OCCURRING, FREE OF TRASH, ROCKS/STONES, & DEBRIS LARGER THAN 2 INCHES IN ANY DIMENSION
 - FREE OF ANY GRASSES, WEEDS, SEEDS, PLANTS, & ANY SUBSTANCE HARMFUL TO PLANT GROWTH.
 - pH RANGE OF 5.0-7.0
 - ORGANIC MATTER: 5-10%
 - SAND: 50-70%, SILT: LESS THAN 30%, CLAY: 10-25%
 - PERMEABILITY RATE OF 5X10 (-3) CENTIMETERS OR GREATER AT 85% COMPACTION.
- CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE THE LOCATION OF STOCKPILE AREAS FOR STRIPPED TOPSOIL AND PLANTING SOIL PRODUCTS. CONTRACTOR SHALL ENSURE AREA IS PROTECTED FROM CONTAMINATION & DISTURBANCE
- FINAL GRADES DEPICTED ON THE GRADING PLAN (REFER TO CIVIL DRAWINGS) ARE TO ACCOUNT FOR PLANTING SOIL DEPTHS INDICATED IN THE LANDSCAPE DRAWINGS/DETAILS. CONTRACTOR SHALL ENSURE SUBGRADE IS SCARIFIED PRIOR TO INSTALLING PLANTING SOIL.
- FINAL FINISHED GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION SUITABLE FOR PLANTING.
- ALL TRASH, DEBRIS LARGER THAN 2 INCHES IN DIAMETER IN ANY DIRECTION, ROCK, COBBLE, EXCAVATION SPOILS, & GRAVEL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE PRIOR TO THE INSTALLATION OF TOPSOIL/PLANTING SOIL.
- COORDINATE INSTALLATION OF TOPSOIL/PLANTING SOIL WITH OTHER WORK. PLACEMENT SHALL OCCUR AFTER INSTALLATION OF HARDSCAPE IMPROVEMENTS, IRRIGATION SYSTEMS, UTILITIES, ETC. AND BEFORE PLANT INSTALLATION.
- PRIOR TO PLANT INSTALLATION, PLANT BEDS AND PITS SHALL BE TESTED FOR PERCOLATION BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. TEST SHALL CONSIST OF 1 FT DIAMETER BY 1 FT DEEP MIN HOLE, OR THE PLANTING PIT, FILLED WITH WATER. IF WATER HAS NOT DISSIPATED BY 50% WITHIN 2 HOURS, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION. IN HARDPAN CONDITIONS, INSTALL DRAIN PIPES AS PER PLANTING DETAILS.



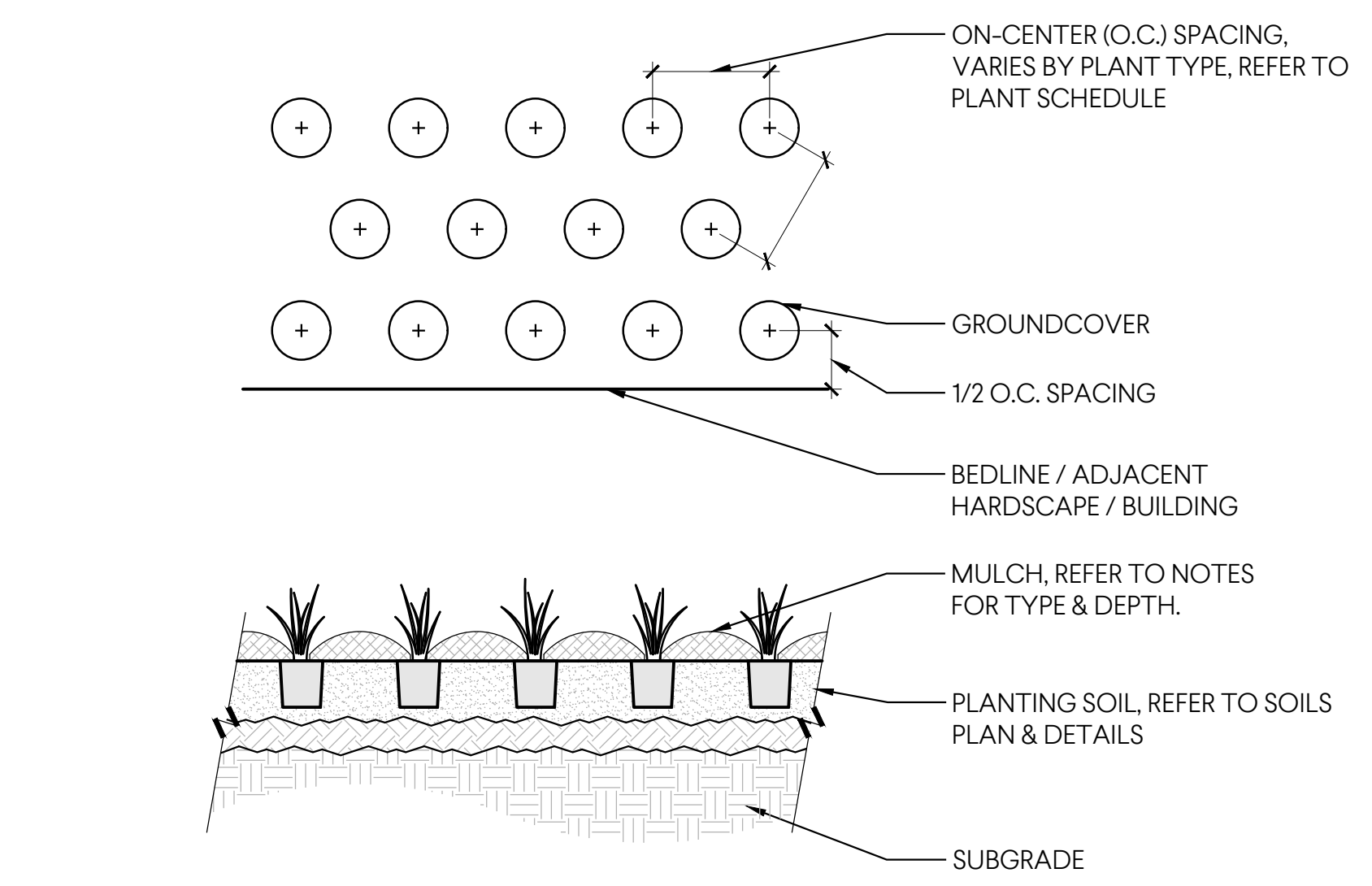
1 DETAIL: ISA TREE INSTALLATION DETAIL
NTS



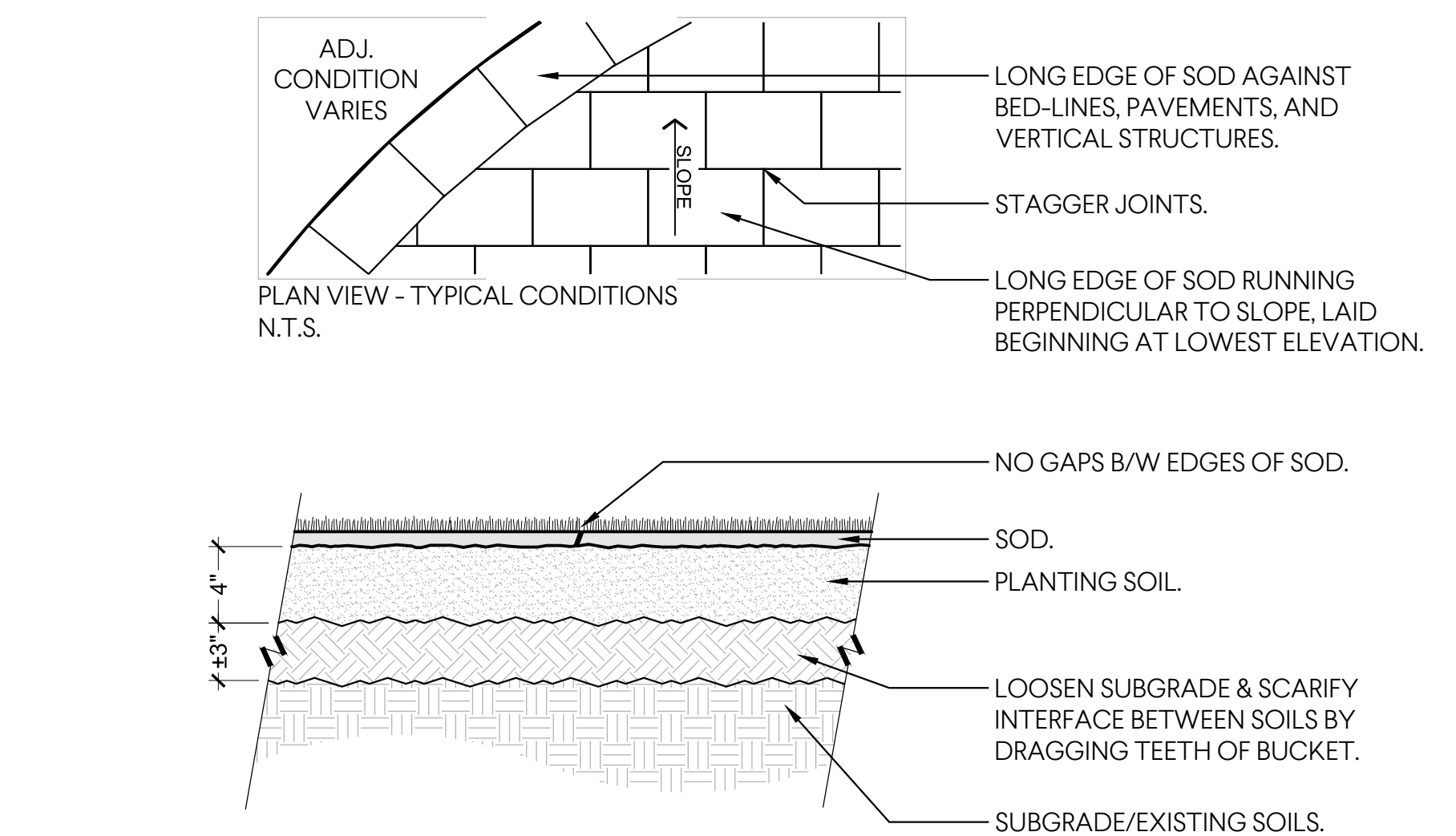
2 TREE PLANTING, EVERGREEN
3/8" = 1'-0"



3 SHRUB PLANTING
3/4" = 1'-0"



4 GROUND COVER & PERENNIAL PLANTING
3/4" = 1'-0"



5 SOD INSTALLATION
1 1/2" = 1'-0"

REVISIONS		
No.	Description	Date
1	Construction Documents	02/03/2023
2	Conformance Documents	05/22/2023

MGM Project No.	SP-5-21
BDW Project No.	2021-118
Drawn By:	
Date:	11-8-2022
Scale:	AS NOTED

Drawing Title:

PHASE 1 BASE BID -
PLANT SCHEDULE,
NOTES, DETAILS

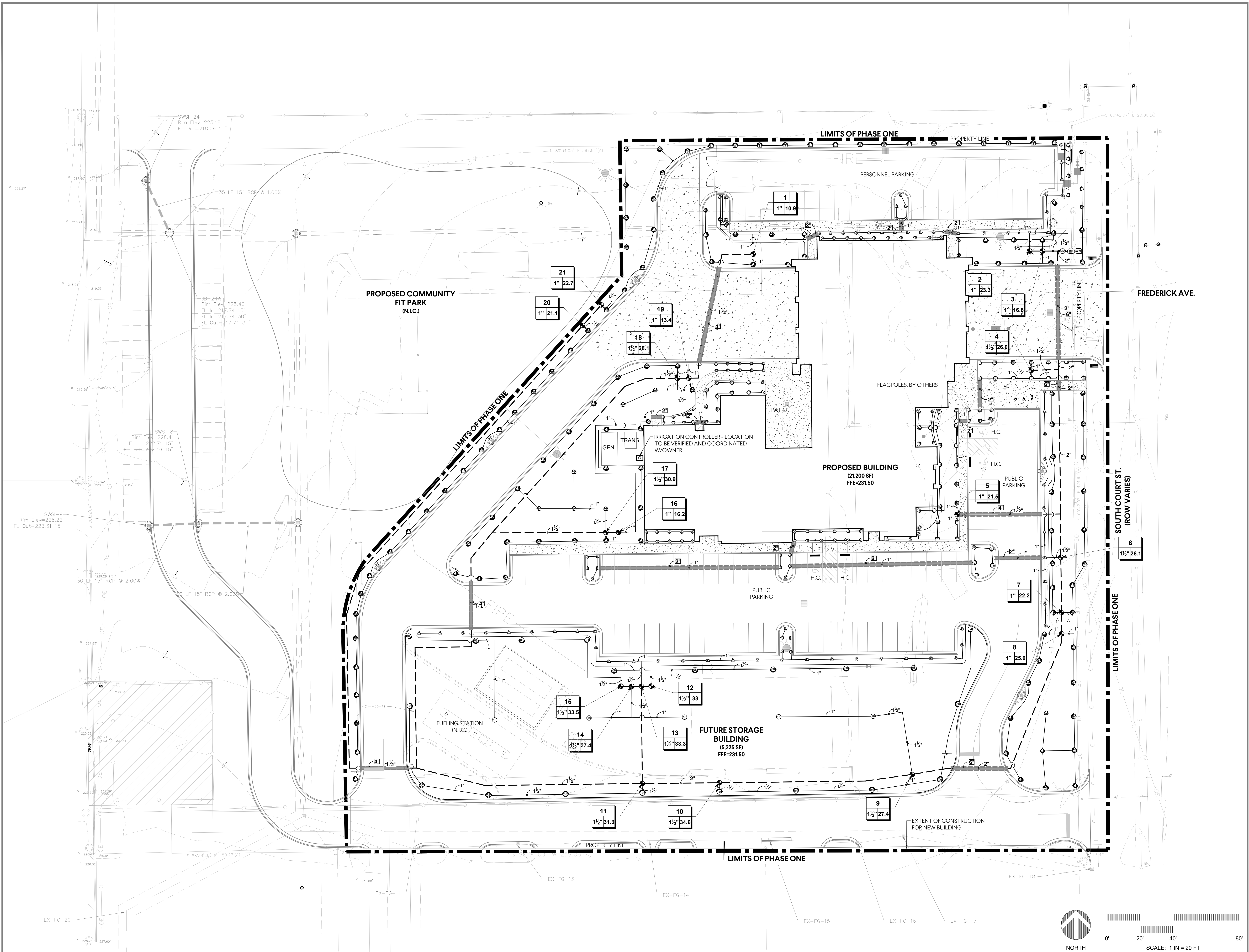
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CONFORMANCE
DOCUMENTS



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104



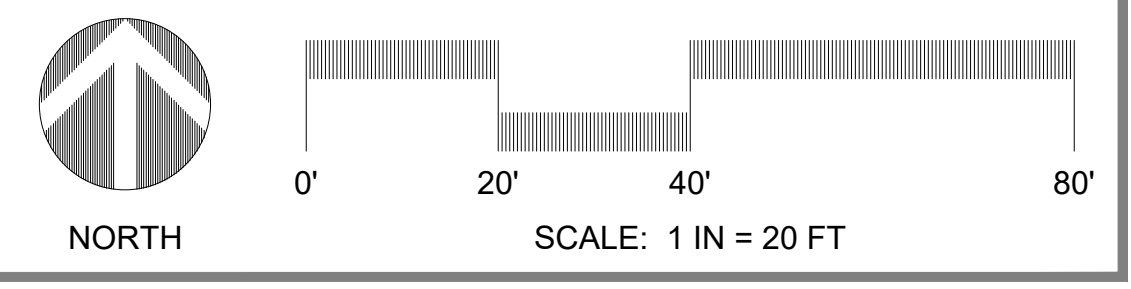
REVISIONS	No.	Description	Date
1	Construction Documents	02/03/2023	
2	Conformance Documents	02/03/2023	

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
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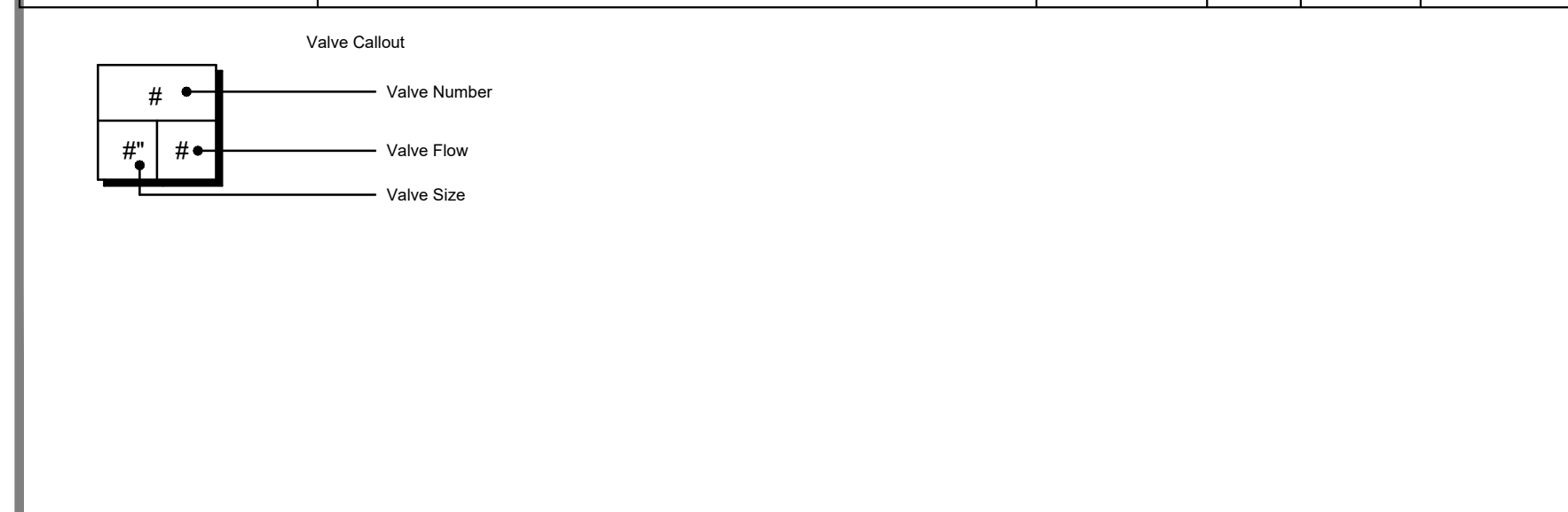
PHASE 1 BASE BID -
IRRIGATION PLAN

Sheet No:
L3.0

CONFORMANCE
DOCUMENTS



IRRIGATION SCHEDULE - BASE BID					
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	RAIN BIRD 1804-SAM-PRS 15 STRIP SERIES TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	3	30		
	RAIN BIRD 1804-SAM-PRS 8 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	10	30		
	RAIN BIRD 1804-SAM-PRS 12 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	30	30		
	RAIN BIRD 1812-SAM-PRS 15 STRIP SERIES SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	51	30		
	RAIN BIRD 1812-SAM-PRS 8 SERIES MPR SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	69	30		
	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	21	30		
	RAIN BIRD 1812-SAM-PRS 12 SERIES MPR SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	14	30		
	RAIN BIRD R-VAN-STRIP 1804-SAM-P45 SHRUB ROTARY, 5FT. X15FT. (LCS AND RCS), 5FT. X30FT. (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, 1/2IN. NPT FEMALE THREADED INLET.	16	45		
	RAIN BIRD R-VAN14 1804-SAM-P45 TURF ROTARY, 8FT. X14FT. 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, 1/2IN. NPT FEMALE THREADED INLET.	13	45		
	RAIN BIRD R-VAN18 1804-SAM-P45 TURF ROTARY, 13FT. X18FT. 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, 1/2IN. NPT FEMALE THREADED INLET.	39	45		
	RAIN BIRD R-VAN24 1804-SAM-P45 TURF ROTARY, 17FT. X24FT. 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, 1/2IN. NPT FEMALE THREADED INLET.	73	45		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
	RAIN BIRD 6504-PC, FC 04 TURF ROTATOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	3	40	3.3	4'
	RAIN BIRD 6504-PC, FC 06 TURF ROTATOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	2	40	4.9	45'
	RAIN BIRD 6504-PC, FC 08 TURF ROTATOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	15	40	6.6	49'
	RAIN BIRD 6504-PC, FC 18 TURF ROTATOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	5	40	13.7	59'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PEB-PRS-D 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL VALVES, LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	21			
	RAIN BIRD EFB-CP-PRS-D 1" 1IN., 1-1/4", 1-1/2IN., 2IN. BRASS MASTER VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN, GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE, WITH PRESSURE REGULATOR.	1			
	WATTS 919QT 1" BACKFLOW REDUCED PRESSURE ZONE	1			
	RAIN BIRD ESP-LXME2 W/ (1) ESPLXMSM12 24 STATION, TRADITIONALLY-WIRED, COMMERCIAL CONTROLLER, (1) ESPLXME2 12-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (1) ESPLXMSM12 -12-STATION EXPANSION MODULES.	1			
	WATER METER 1" WATER METER LOCATION TO BE COORDINATED W/CIVIL	1			
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	5,909 L.F.			
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,763 L.F.			
	PIPE SLEEVE: PVC SCHEDULE 40	570.2 L.F.			

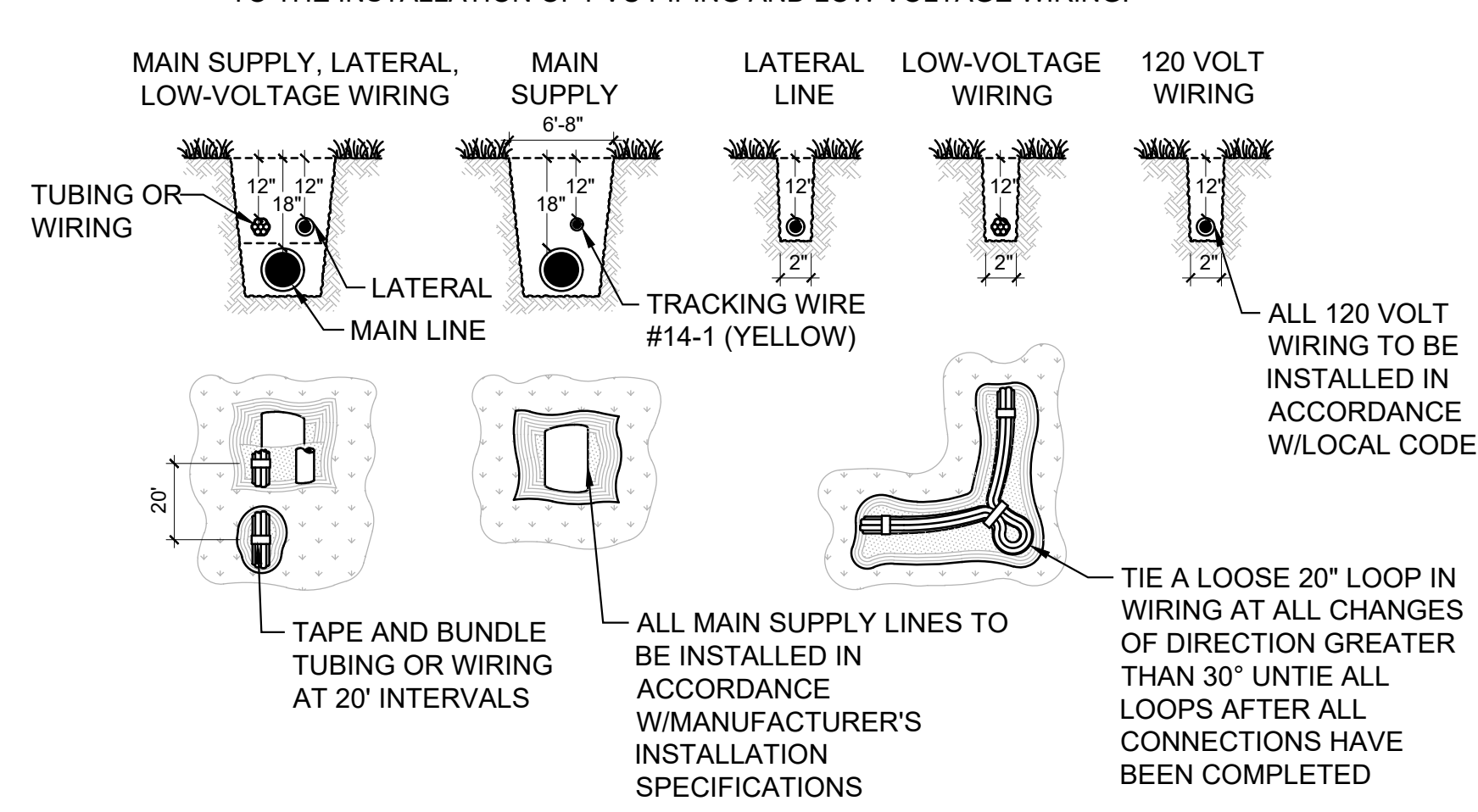


VALVE SCHEDULE - ALTERNATE NO. 1								
NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB-PRS-D	1"	TURF ROTARY	10.91	304.8	47.0	64.1	0.59 in/h
2	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	23.32	1042	36.3	55.4	1.44 in/h
3	RAIN BIRD PEB-PRS-D	1"	TURF ROTARY	16.77	1034	48.3	63.9	0.64 in/h
4	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	26.03	970.1	36.0	57.2	1.7 in/h
5	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	21.5	928.8	35.0	54.3	1.6 in/h
6	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	26.12	839.9	37.8	59.5	1.55 in/h
7	RAIN BIRD PEB-PRS-D	1"	TURF ROTARY	22.23	806.4	49.5	68.7	0.64 in/h
8	RAIN BIRD PEB-PRS-D	1"	TURF ROTARY	24.96	793.6	51.6	72.7	0.62 in/h
9	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	27.4	646.2	46.2	70.0	0.47 in/h
10	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	34.6	529.2	47.2	79.0	0.64 in/h
11	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	31.3	482.5	45.9	74.5	0.6 in/h
12	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	33	547.2	46.1	77.1	0.65 in/h
13	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	33.3	541.3	36.6	68.0	1.7 in/h
14	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	27.4	547.2	44.9	70.2	0.41 in/h
15	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	33.5	553.7	47.1	78.8	0.69 in/h
16	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	16.21	240.8	36.6	56.7	1.46 in/h
17	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTARY	30.87	233.1	49.8	98.7	0.52 in/h
18	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTARY	28.14	196.8	49.8	86.4	0.47 in/h
19	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	13.35	203.7	35.6	54.0	1.39 in/h
20	RAIN BIRD PEB-PRS-D	1"	TURF ROTARY	21.08	706.1	52.5	79.1	0.35 in/h
21	RAIN BIRD PEB-PRS-D	1"	TURF ROTARY	22.69	722.9	51.0	80.2	0.52 in/h
	Common Wire				1,763			

IRRIGATION NOTES

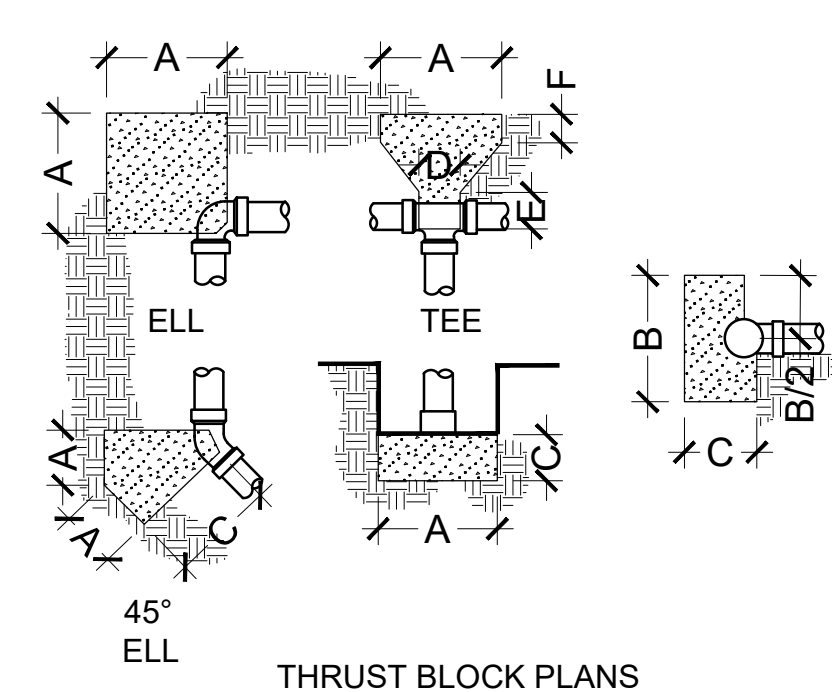
- IRRIGATION DRAWINGS ARE DIAGRAMMATIC IN GENERAL AND SUBJECT TO THE REQUIREMENTS OF THE PLANTING PLAN. THE IRRIGATION DRAWINGS INDICATE THE GENERAL LOCATION OF THE COMPONENT PARTS OF THE SYSTEM, BUT ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE IRRIGATION WORK.
- ALL IRRIGATION WORK WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING CITY CODES, ORDINANCES, AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES, AND APPROVALS FROM GOVERNING AUTHORITIES.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH SITE CONTRACTOR THE INSTALLATION OF THE IRRIGATION WATER METER AND BACKFLOW PREVENTER AND CONNECTION TO NEW IRRIGATION SYSTEM.
- TEST WATER PRESSURE DOWNSTREAM OF THE IRRIGATION WATER METER OR PUMP STATION DISCHARGE TO CONFIRM AVAILABILITY OF PROPER OPERATING PRESSURE. NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE PRESSURE IS INSUFFICIENT OR EXCESSIVE.
- PIPING FOR MAIN LINES SHALL BE PVC SCHEDULE 40 AND ALL LATERAL LINES SHALL BE PVC CLASS 200. FITTINGS WILL BE PVC FOR CORRESPONDING SERVICE. PIPE DEPTH WILL BE A MINIMUM OF 12 IN. TO 18 IN. FOR ALL MAIN AND LATERAL LINES. PIPE DEPTH MAY VARY DEPENDING ON LOCAL FROST DEPTH AND/OR REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES AT SITE'S LOCATION.
- ACCEPTED MANUFACTURER FOR IRRIGATION PRODUCTS IS SPECIFIED IN THE IRRIGATION SCHEDULE UNLESS OTHERWISE INDICATED. ALTERNATE IRRIGATION MANUFACTURER'S EQUIPMENT MAY BE SUBSTITUTED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO BID. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING HEAD LAYOUT AND LOCATIONS, VALVE LOCATIONS, PERFORMANCE DATA, ETC. SHOULD ALTERNATE MANUFACTURER BE USED.
- INSTALL ALL IRRIGATION COMPONENTS AS PER MANUFACTURER'S RECOMMENDATIONS OR INSTRUCTIONS.
- REMOTE CONTROL VALVES AND OTHER UNDERGROUND DEVICES WILL BE INSTALLED IN PLASTIC BOXES WITH PLASTIC COVERS OF THE SIZE REQUIRED TO ENSURE ADJUSTMENT OF THE DEVICE. GROUP DEVICES IN SINGLE BOXES WHERE POSSIBLE.
- IRRIGATION HEADS TO BE LOCATED A MINIMUM OF 4 IN. OFF SIDEWALKS/CURBS AND 6 IN. FROM BUILDINGS OR WALLS.
- ADJUST IRRIGATION AS NECESSARY TO AVOID EXISTING UTILITIES, LIGHT POLES, BUILDINGS, AND/OR OTHER UNFORESEEN OBSTRUCTIONS.
- IRRIGATION CONTROLLER LOCATION SHOWN ON DRAWINGS IS APPROXIMATE AND ONLY A PLACEHOLDER. LANDSCAPE CONTRACTOR TO VERIFY EXACT LOCATION OF IRRIGATION CONTROLLER WITH OWNER PRIOR TO CONSTRUCTION. CONTRACTOR TO PROVIDE CONTROLLER WITH APPROPRIATE ENCLOSURE FOR SPECIFIC LOCATION WHETHER INTERIOR, EXTERIOR, WALL MOUNT, OR PEDESTAL ENCLOSURE APPLICATION.
- CONTRACTOR SHALL INSTALL GROUNDING, SURGE, AND LIGHTNING PROTECTION AS PER IRRIGATION MANUFACTURER'S RECOMMENDATIONS.
- VALVES, CONTROLLERS, AND ALL IRRIGATION EQUIPMENT TO HAVE PROPER GROUNDING PROTECTION AS PER IRRIGATION MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS OF THE SYSTEM AT THE COMPLETION OF THE PROJECT.

CONTRACTOR TO COMPLY WITH LOCAL CODES AND ORDINANCES IN REFERENCE TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.



1 IRRIGATION TRENCHING

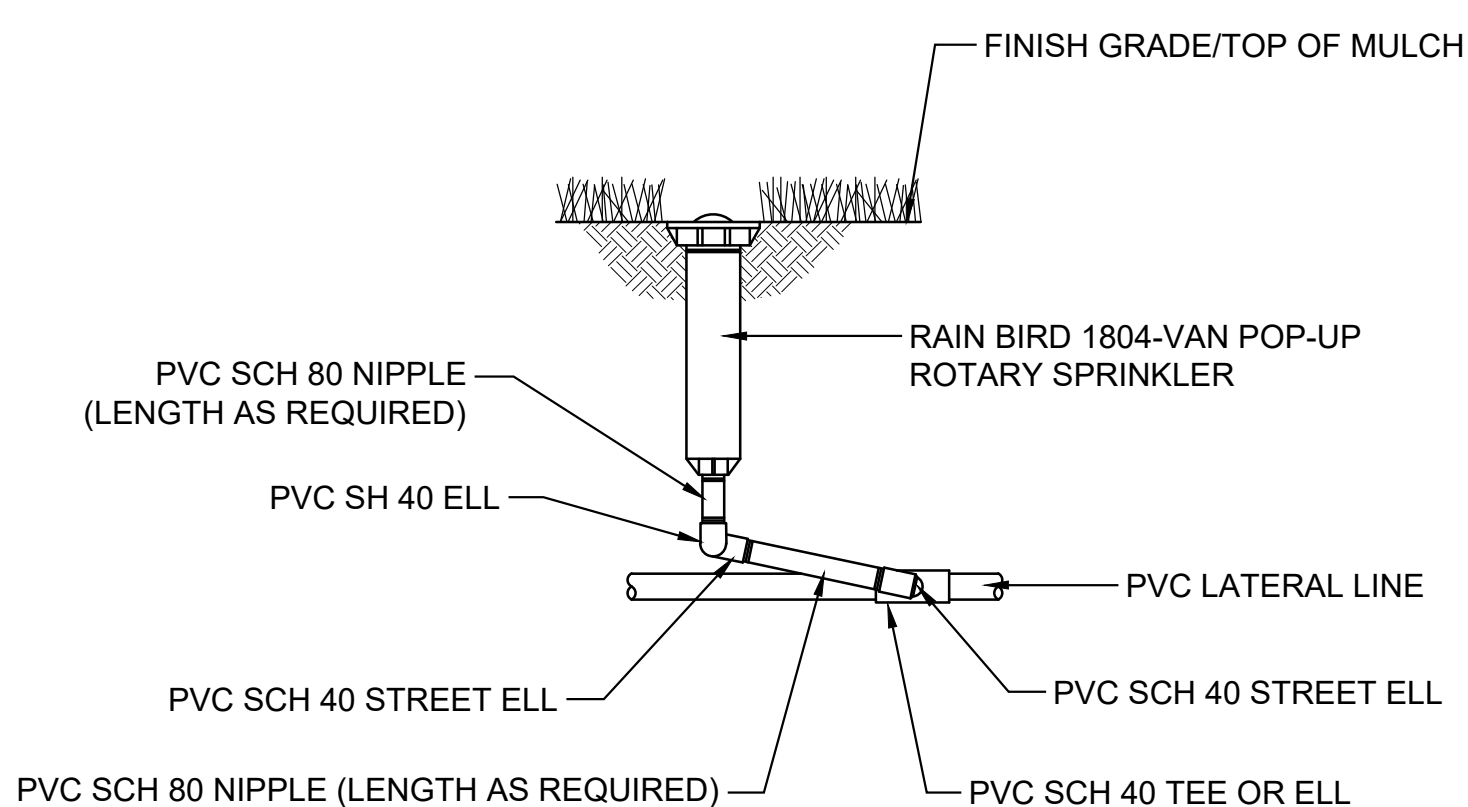
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PIPE DIA.	TEES				PLUGS				90°		45°		
	A	B	C	D	E	F	A	B	C	A	B	C	
3"	12	20	8	12	-	-	12	20	8	18	12	8	12

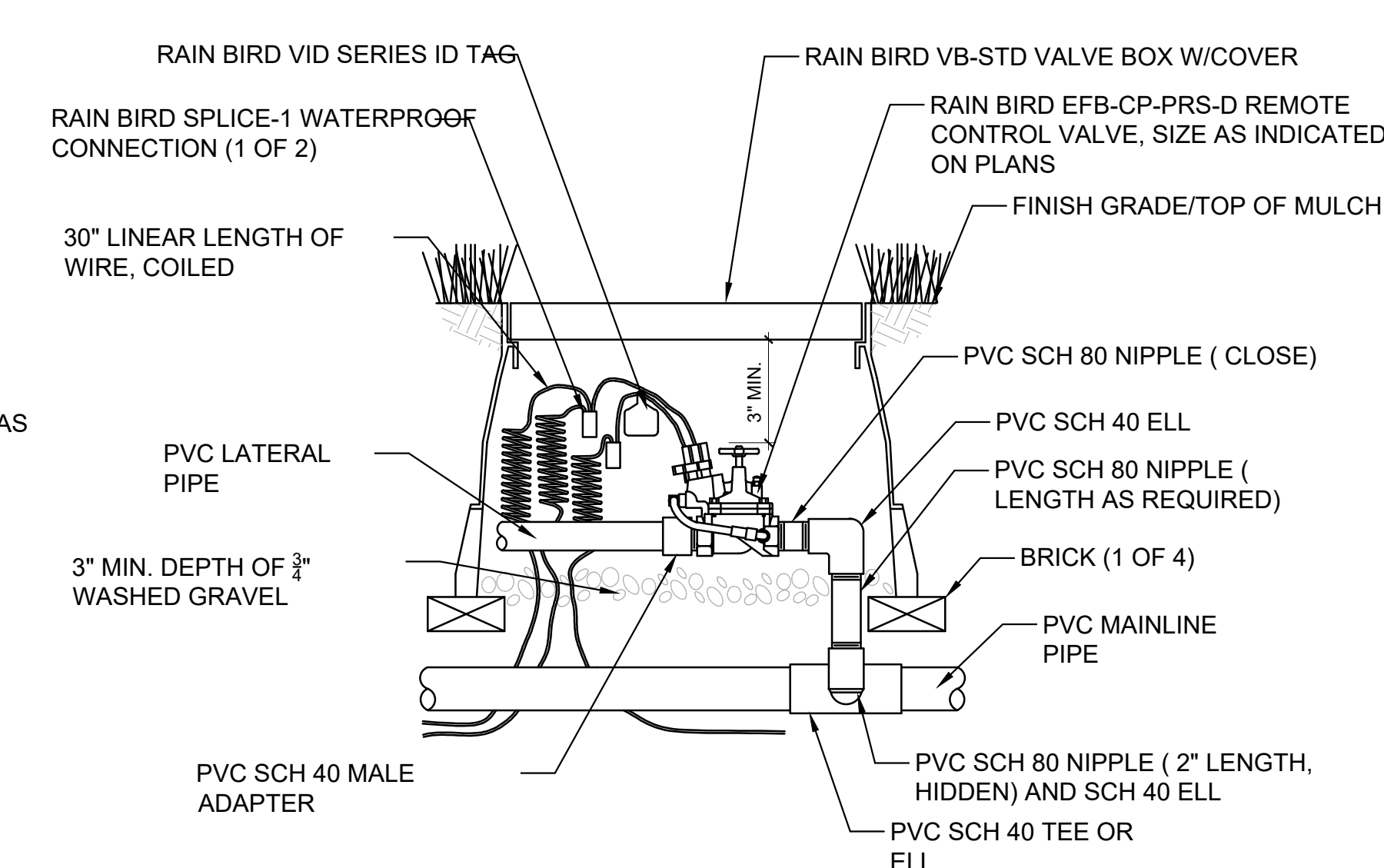
3 THRUST BLOCKS

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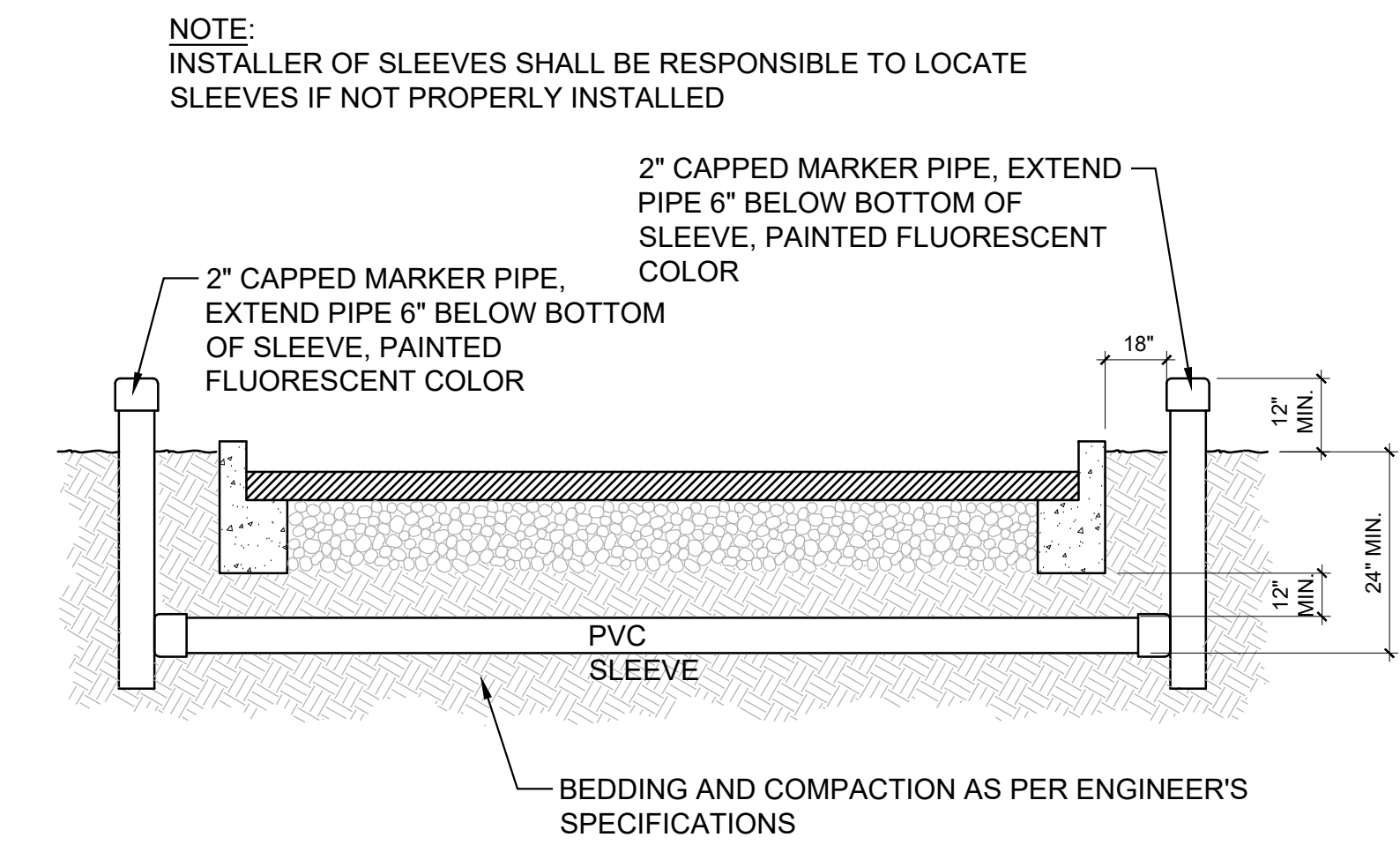
5 RAIN BIRD ROTARY POP-UP SPRINKLER

1" = 1'-0"



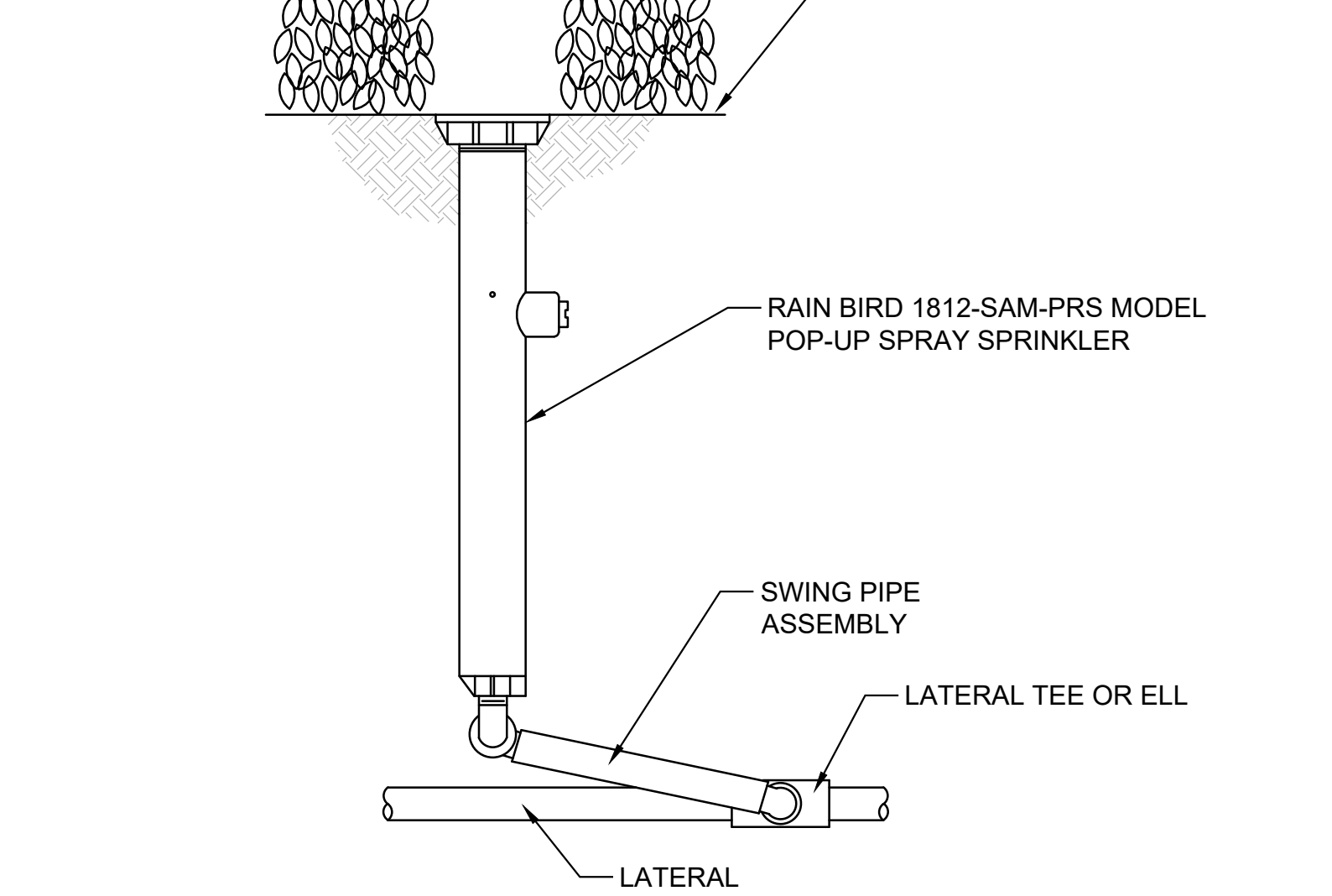
8 RAIN BIRD EFB-CP MASTER VALVE

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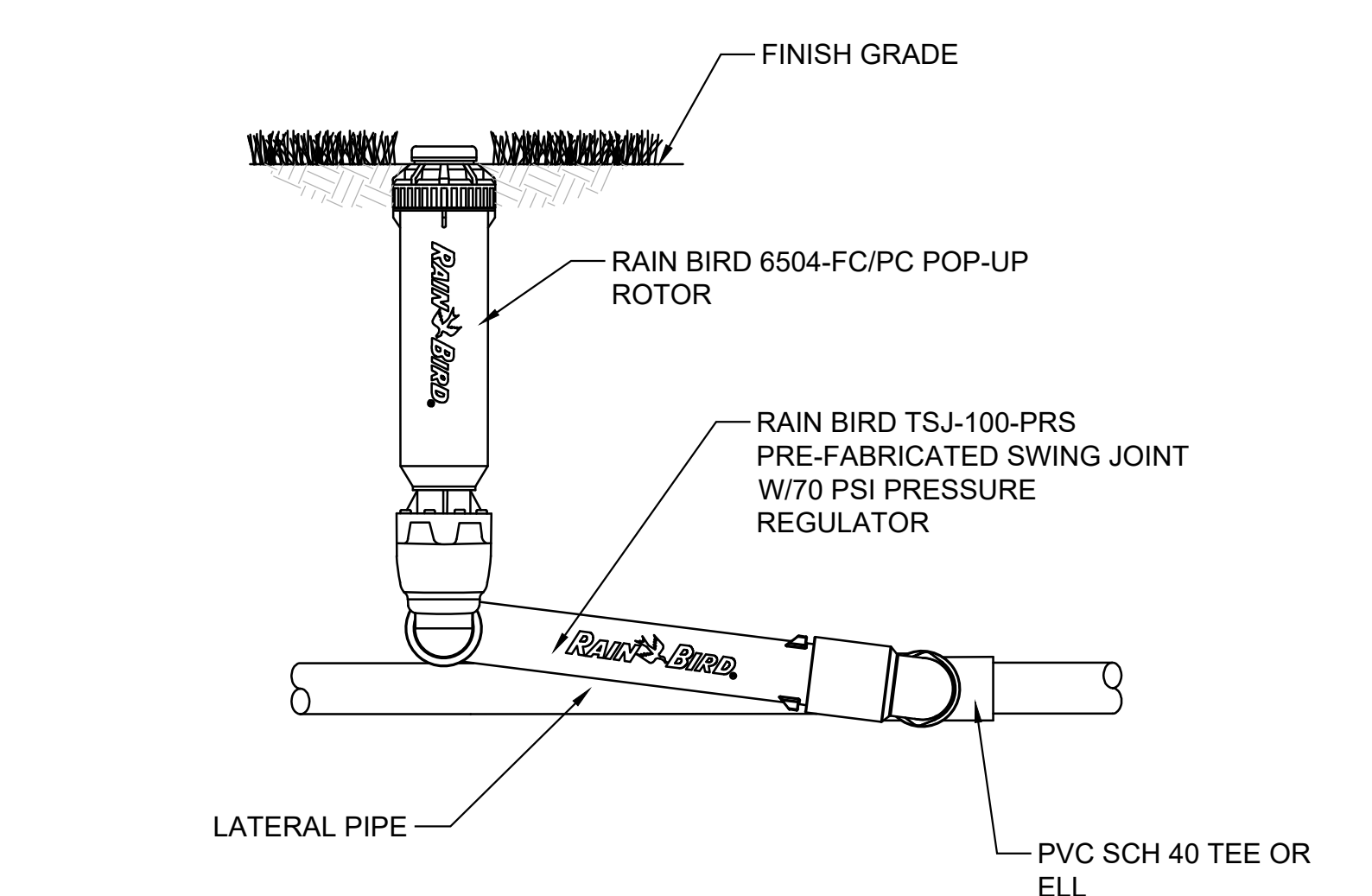
2 IRRIGATION SLEEVING

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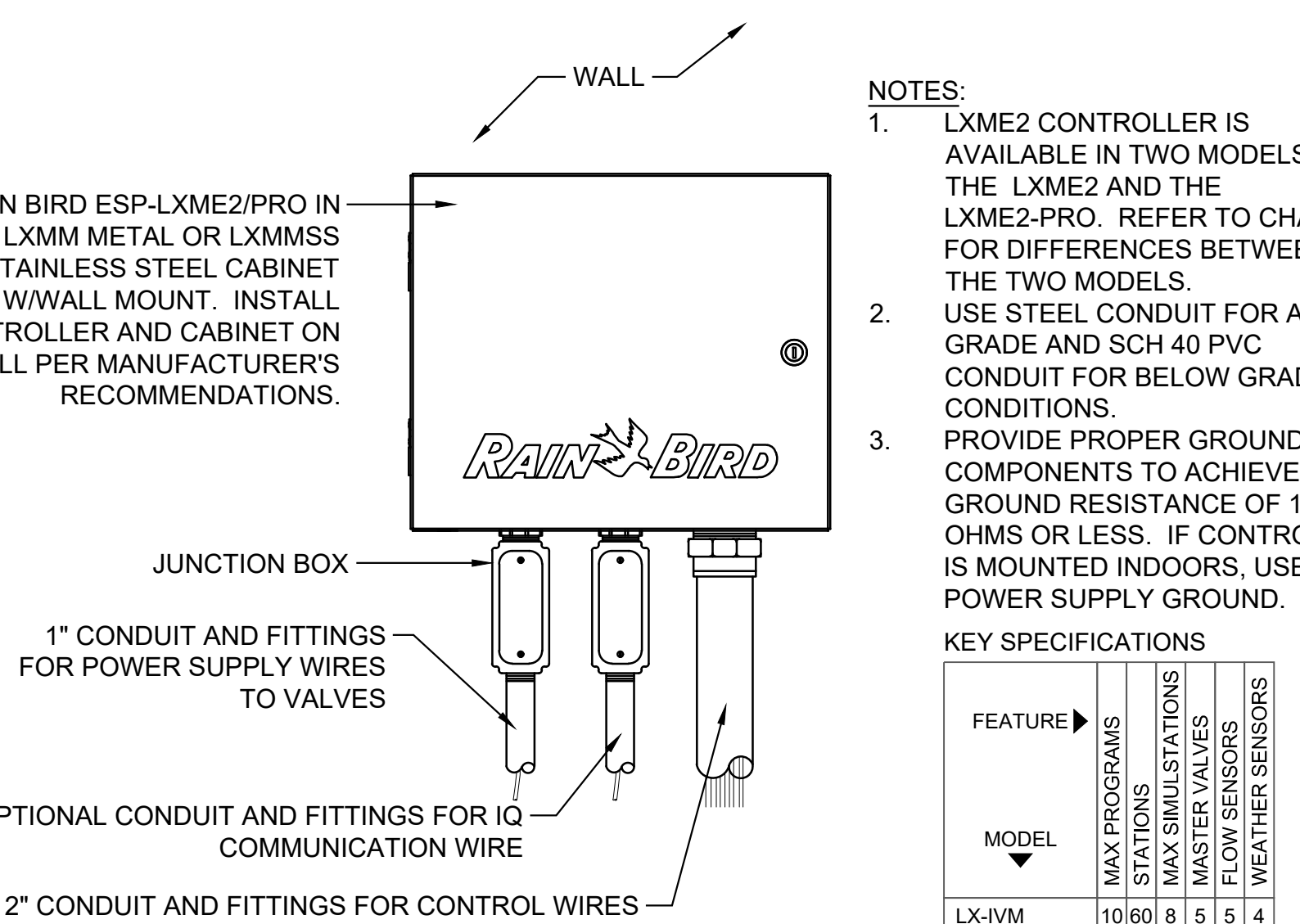
4 RAIN BIRD 12" POP-UP SPRAY SPRINKLER

NTS



6 RAIN BIRD 6504 POP-UP ROTOR

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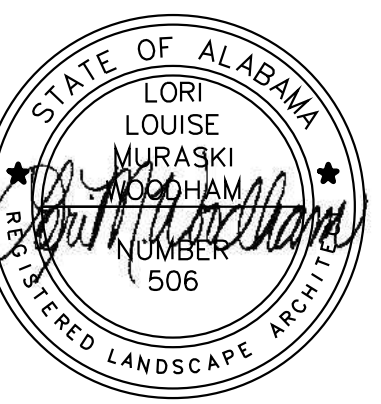
9 RAIN BIRD ESP-LXME2/PRO CONTROLLER

NTS

Barganier Davis Williams Architects Associated



624 South McDonough Street
Montgomery, AL 36104
phone: 334.834.2038
www.bdwarchitects.com



NEW FIRE STATION NO. 10 FOR THE CITY OF MONTGOMERY SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

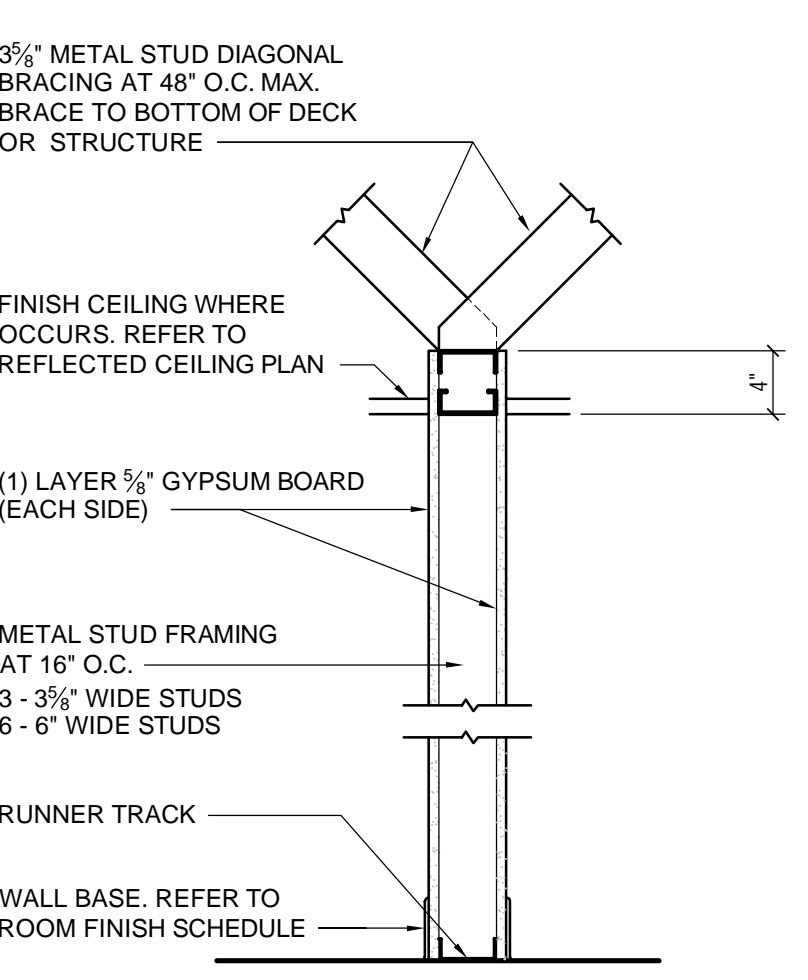
REVISIONS	
No.	Description
1	Construction Document 02/03/2023
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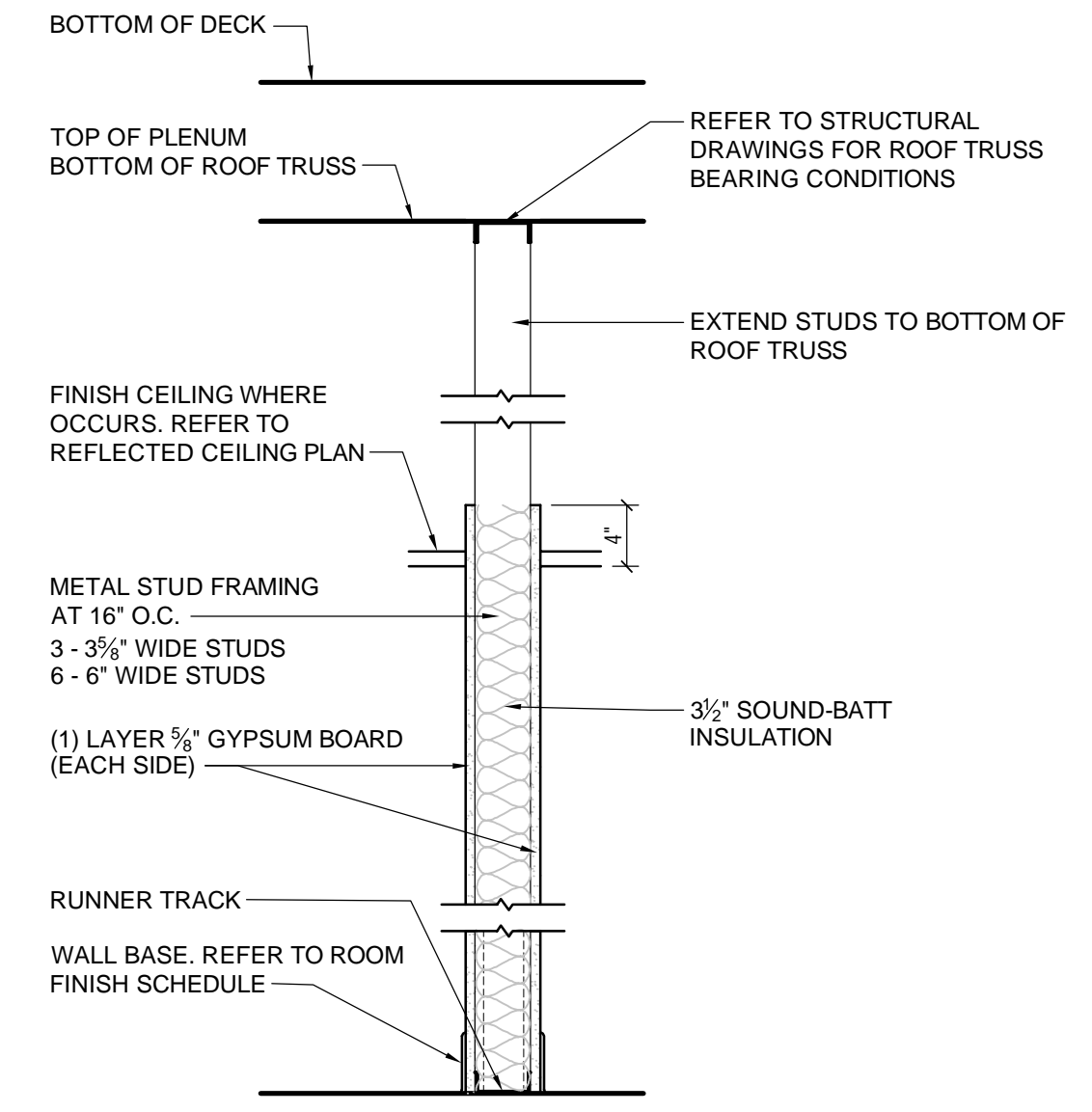
PHASE 1 BASE BID - IRRIGATION SCHEDULE, NOTES, DETAILS

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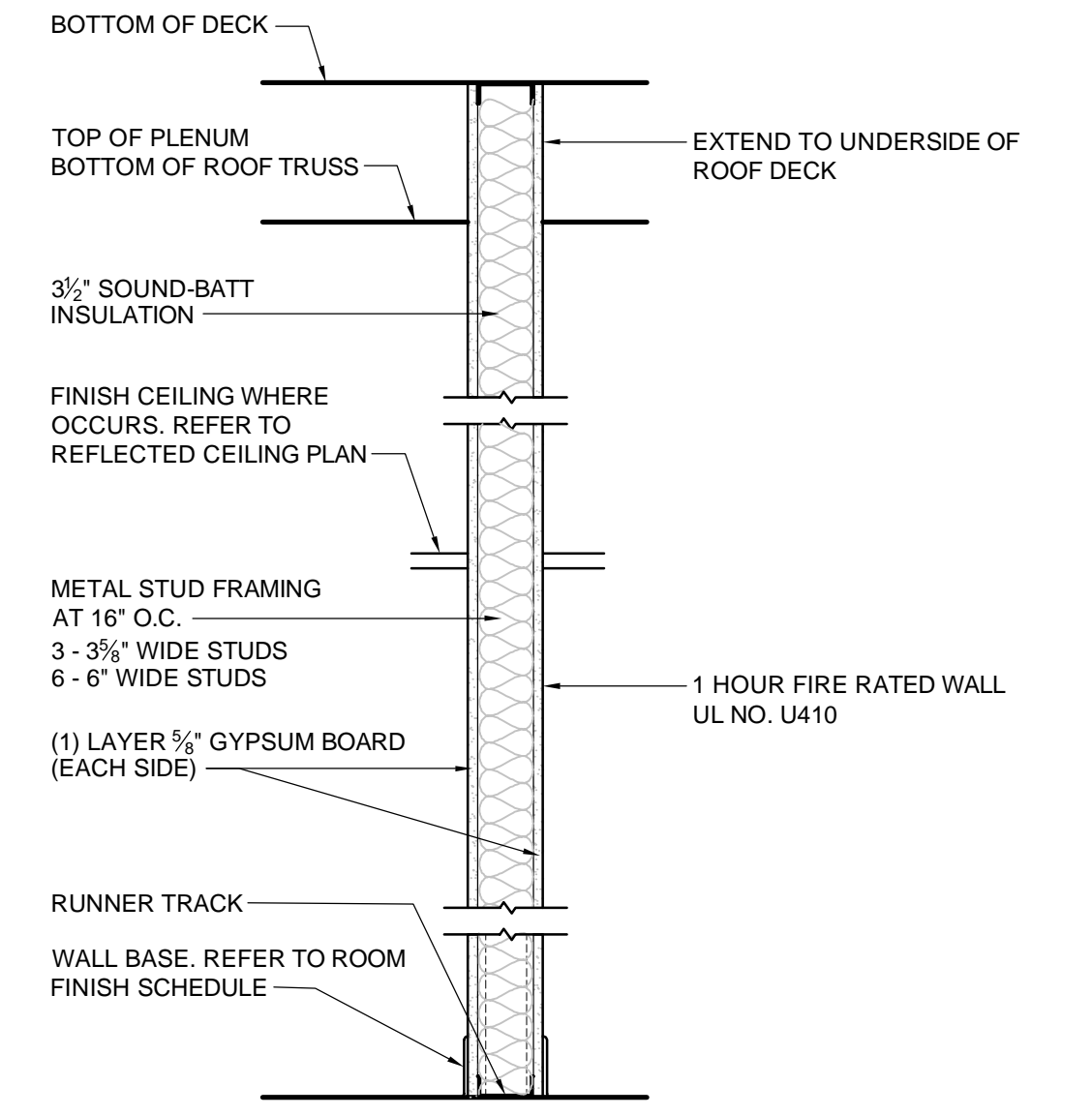
CONFORMANCE DOCUMENTS



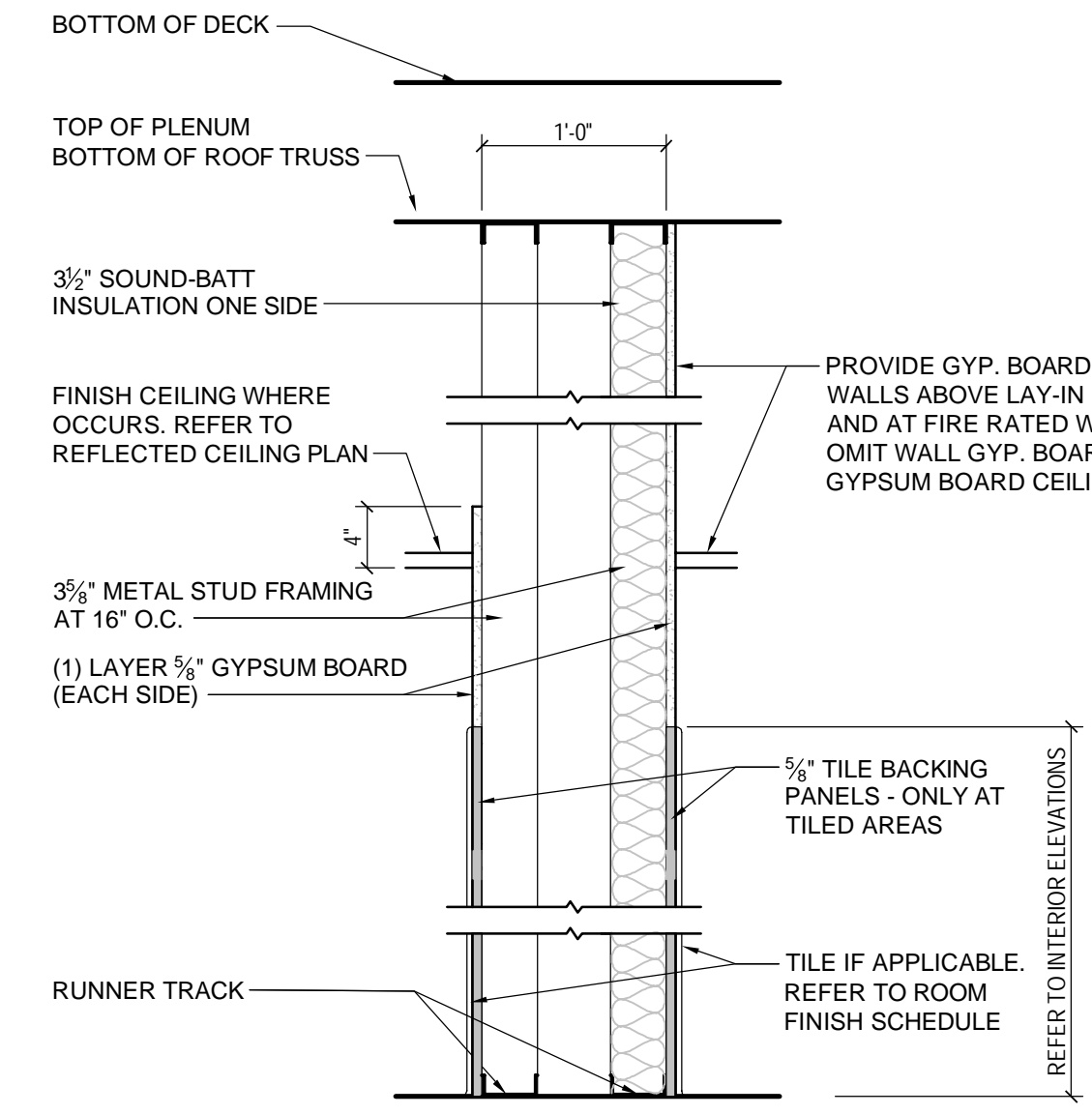
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 METAL STUD PARTITION



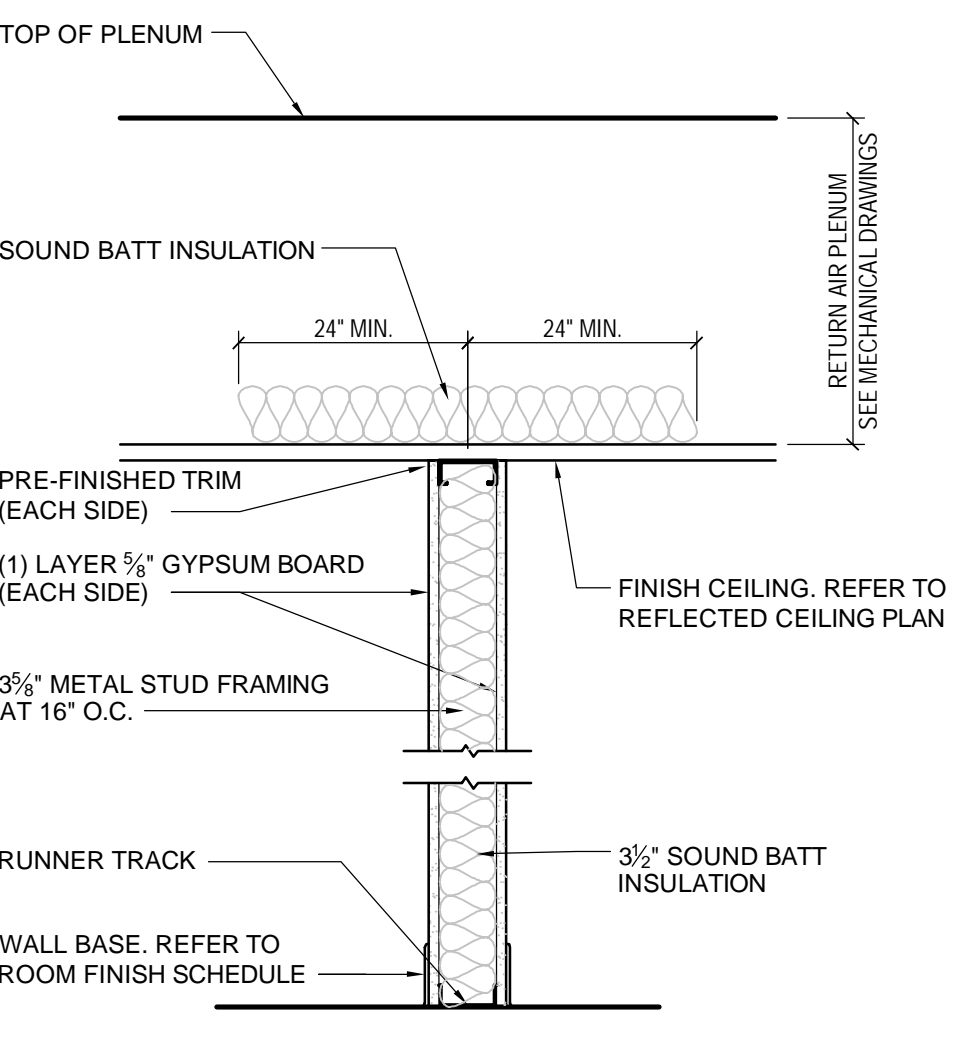
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 METAL STUD PARTITION



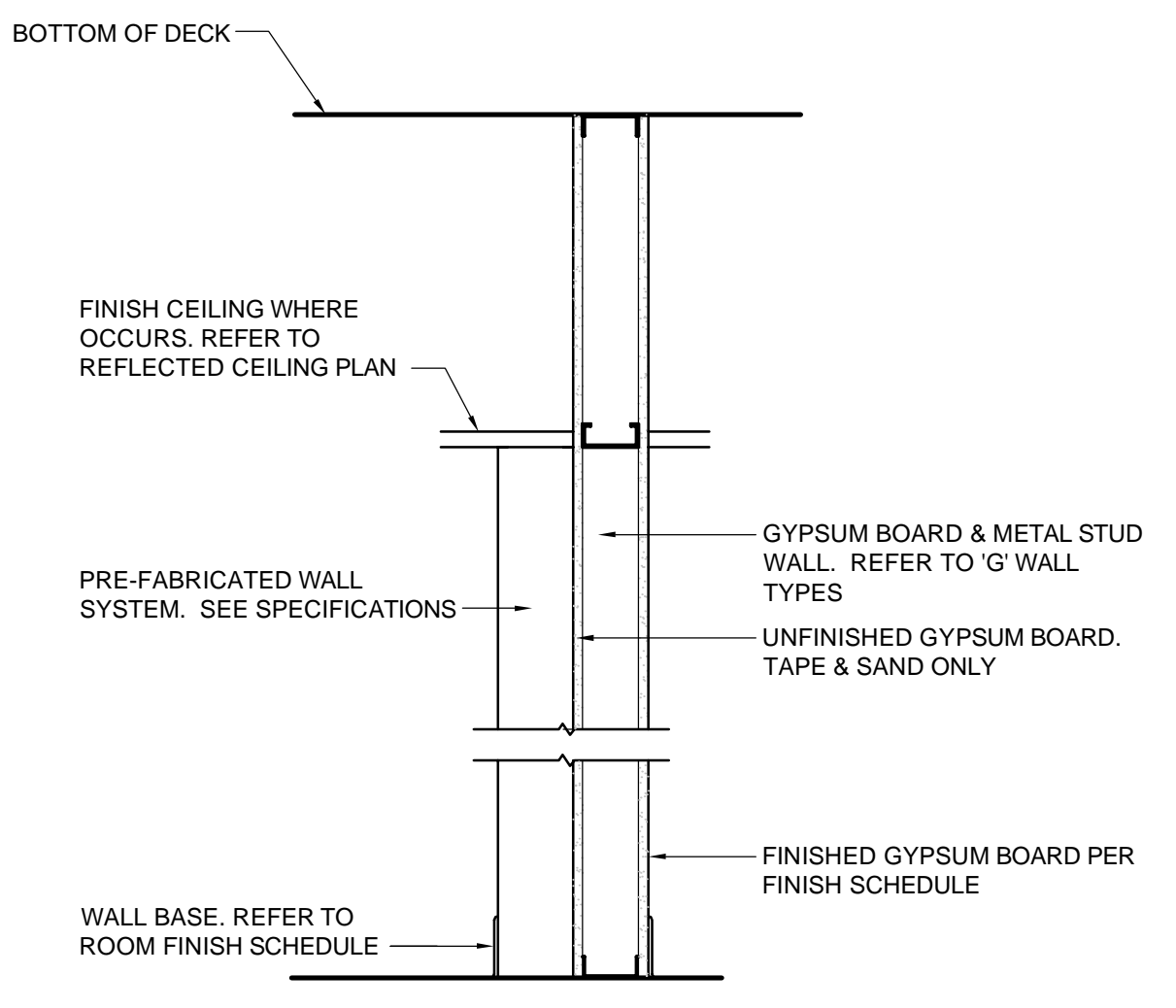
G3 WALL TYPE
 SCALE: 1"=1'-0"
 FIRE RATED FULL HEIGHT METAL STUD PARTITION



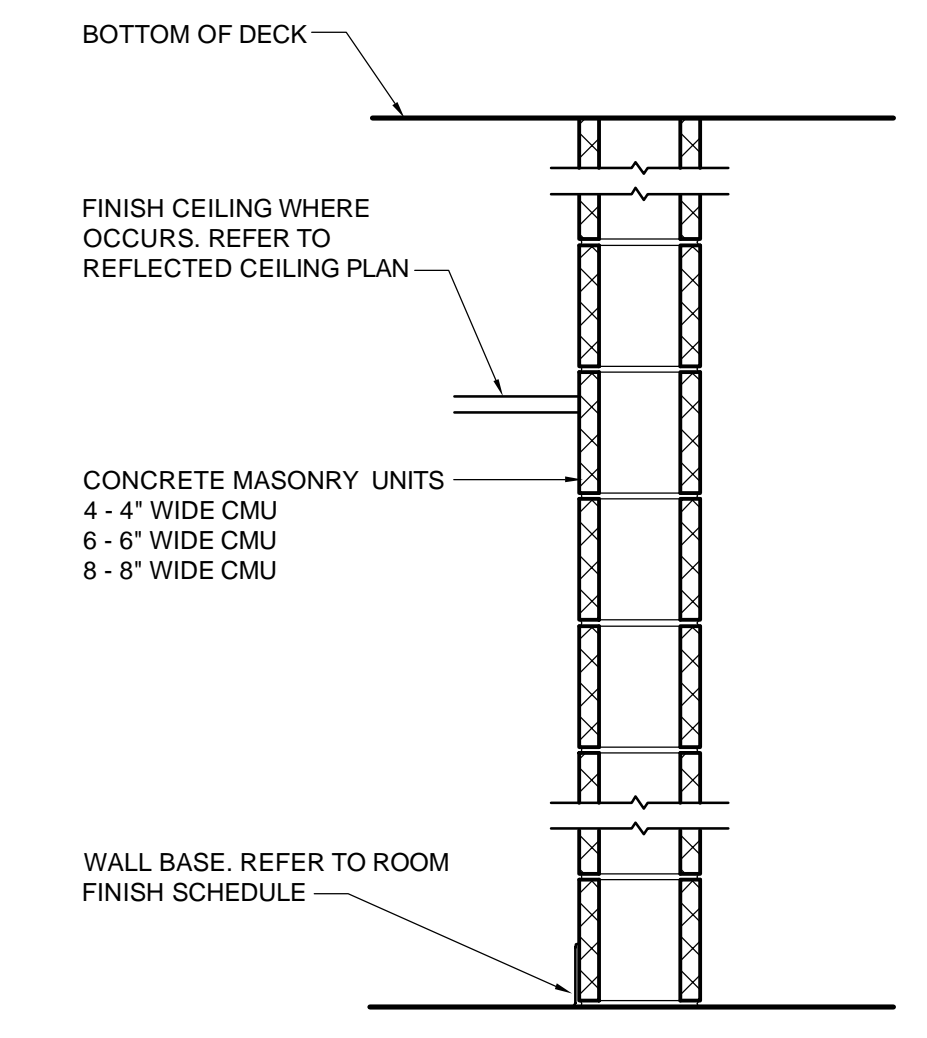
G4 WALL TYPE
 SCALE: 1"=1'-0"
 FULL HEIGHT PLUMBING WALL



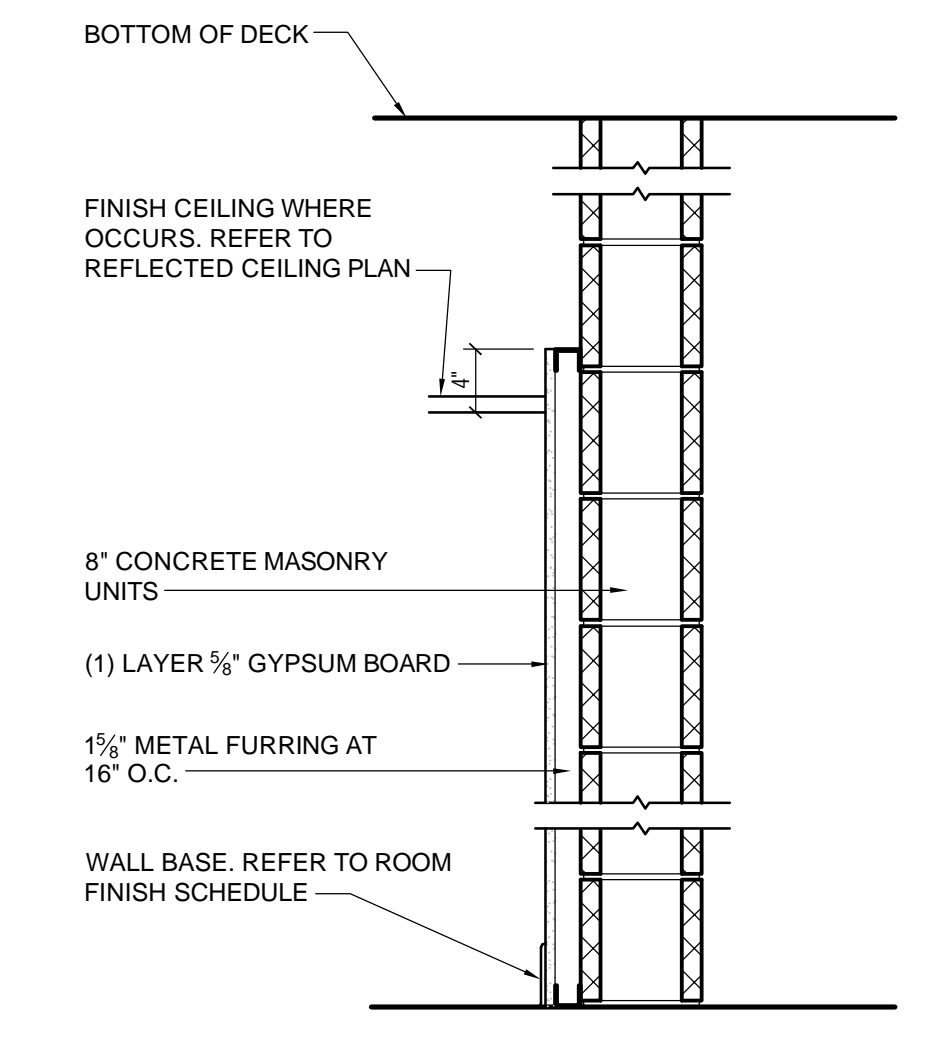
G5 WALL TYPE
 SCALE: 1"=1'-0"
 METAL STUD PARTITION



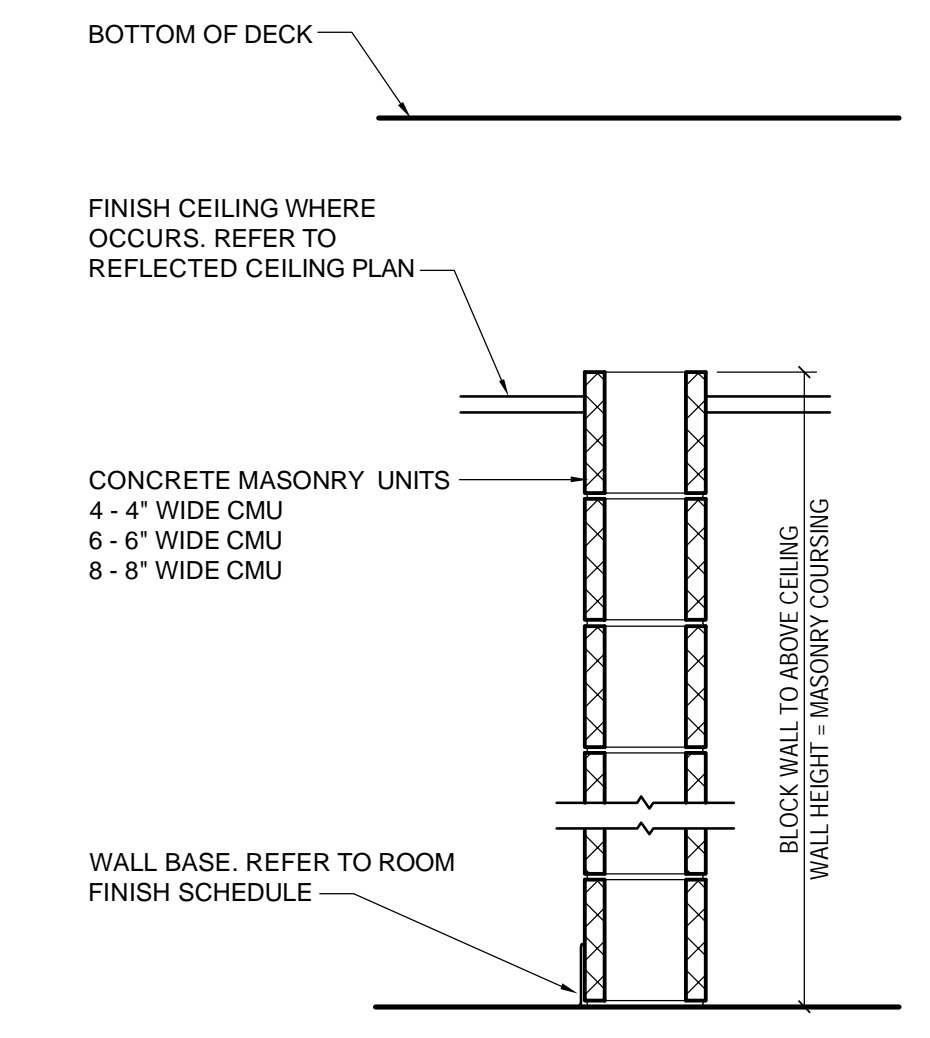
D1 WALL TYPE
 SCALE: 1"=1'-0"
 PRE-FABRICATED PARTITION
 PREFABRICATED WALL SYSTEM BY 'DIRT' OR APPROVED EQUAL. SEE ALLOWANCES



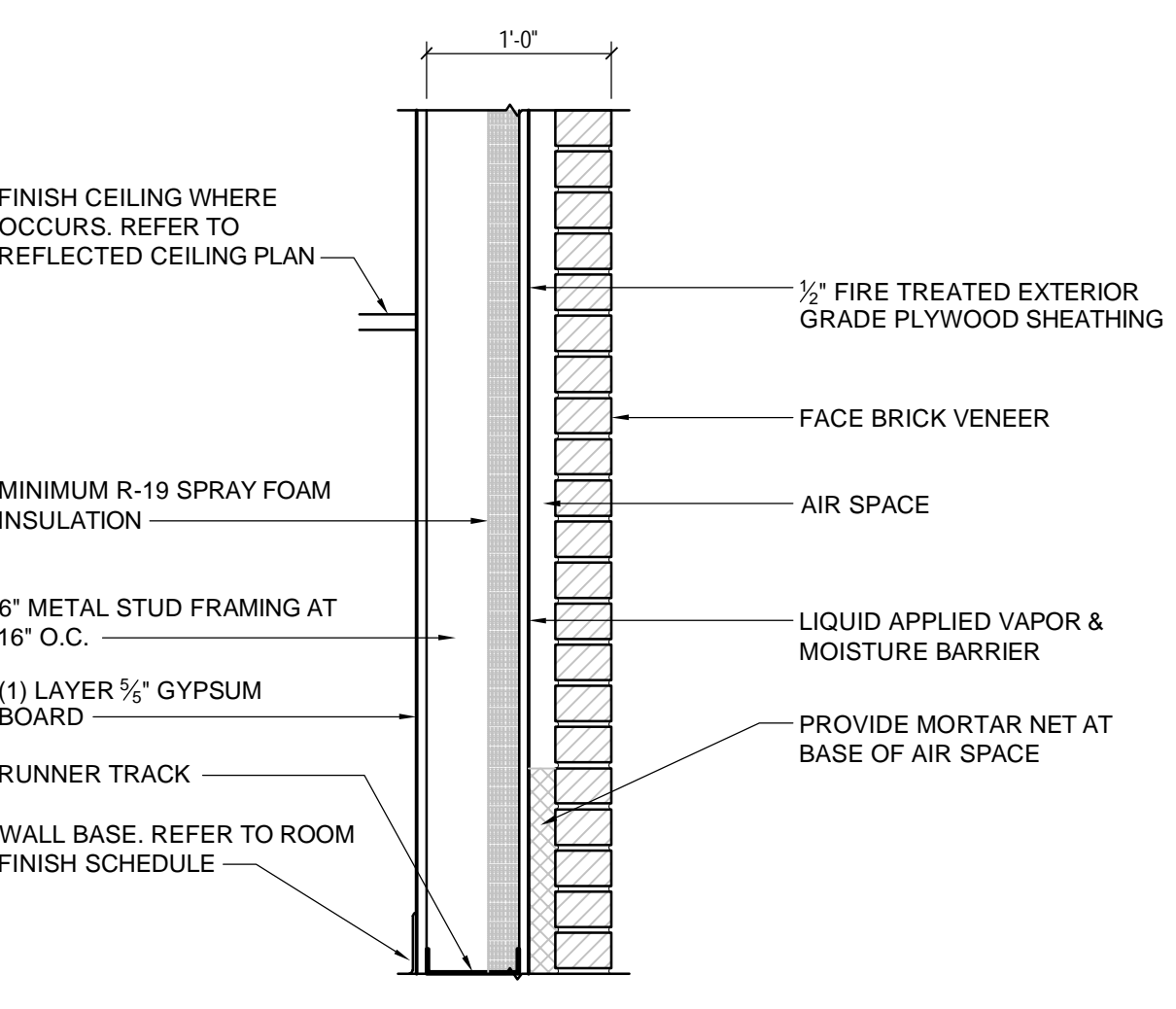
M1 WALL TYPE
 SCALE: 1"=1'-0"
 FULL HEIGHT CMU BLOCK WALL
 NOTE: PROVIDE BULLNOSE BLOCK AT ALL EXPOSED OUTSIDE CORNERS



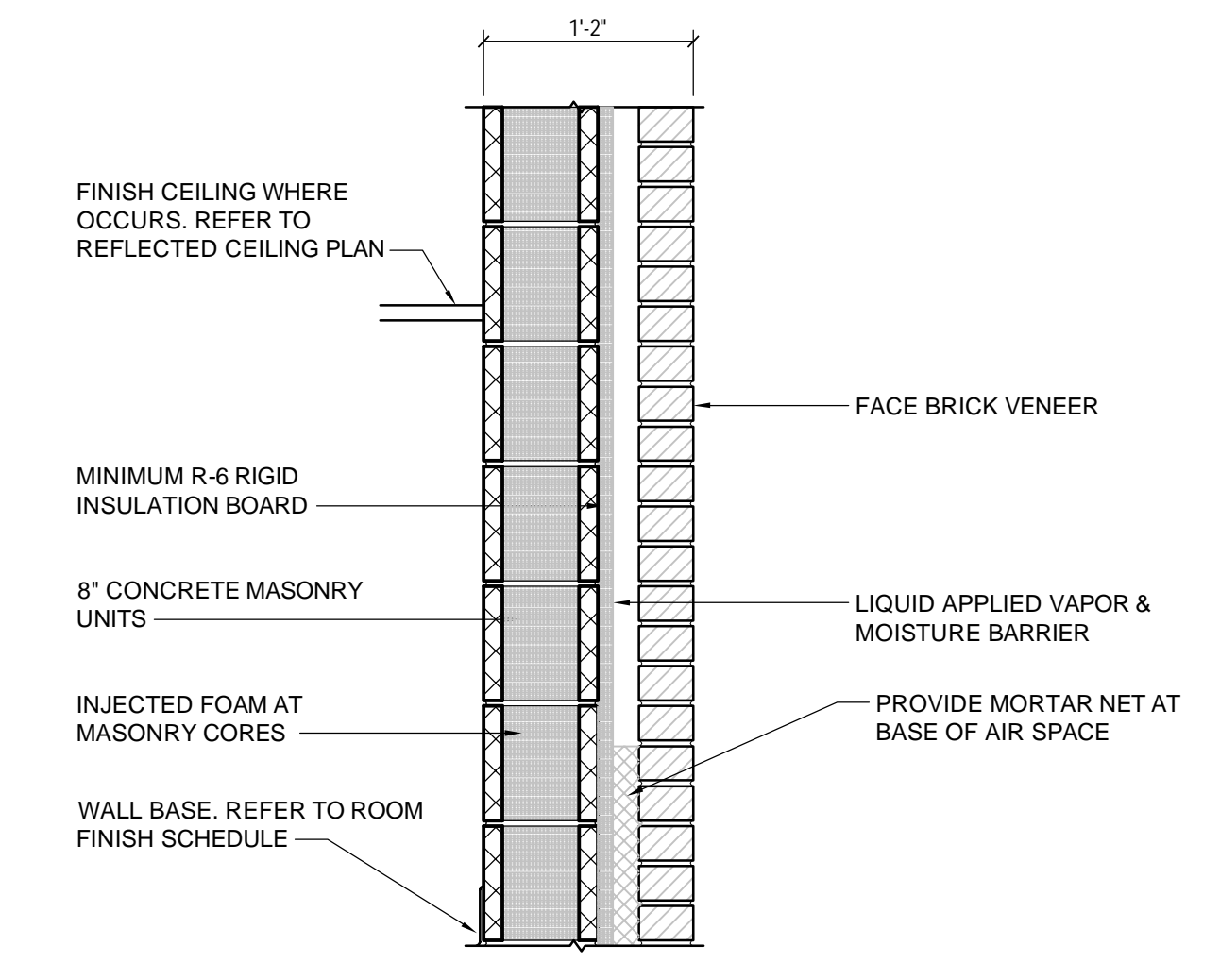
M2 WALL TYPE
 SCALE: 1"=1'-0"
 FULL HEIGHT CMU BLOCK WALL WITH GYP. BOARD
 NOTE: PROVIDE BULLNOSE BLOCK AT ALL EXPOSED OUTSIDE CORNERS



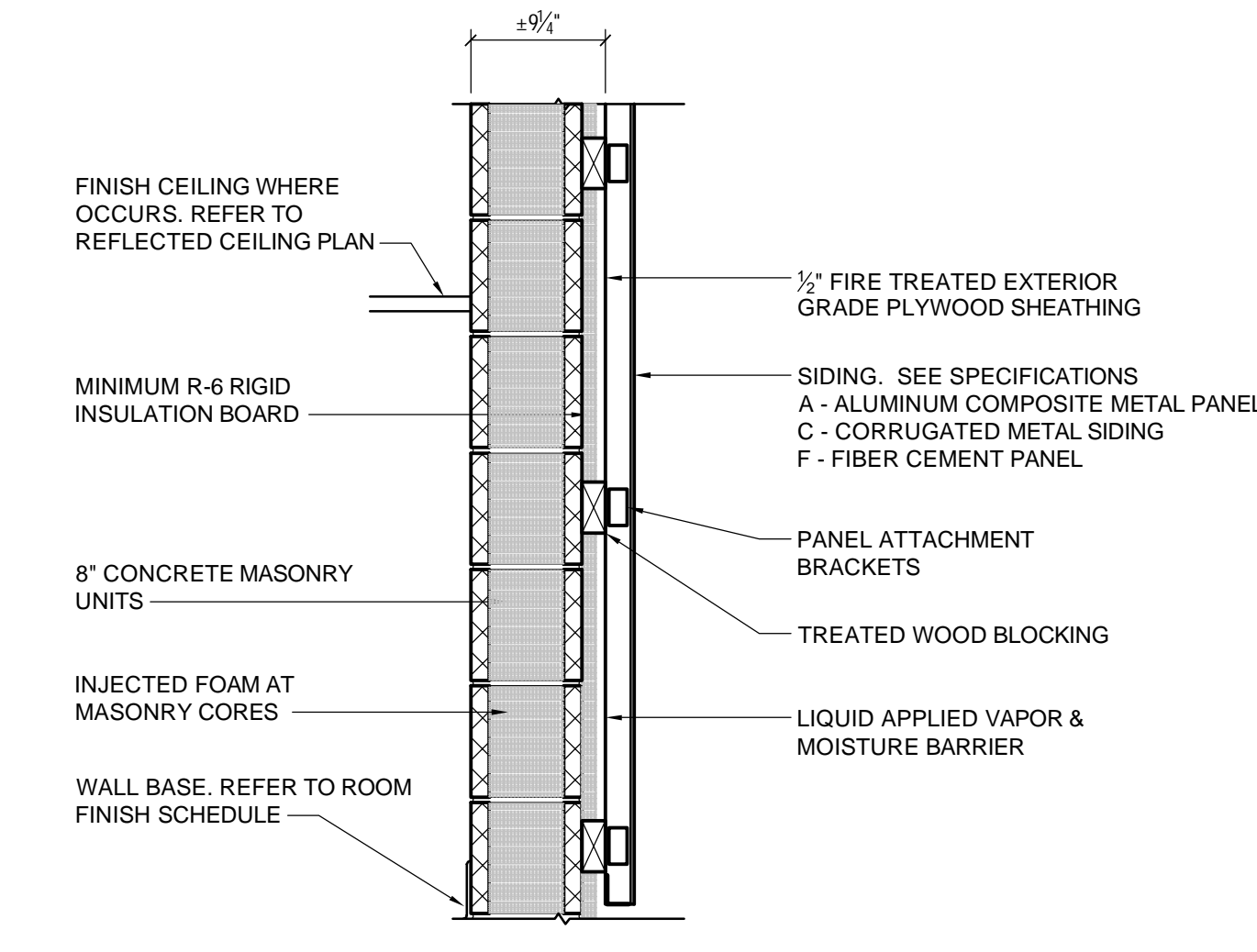
M3 WALL TYPE
 SCALE: 1"=1'-0"
 PARTIAL HEIGHT CMU BLOCK WALL
 NOTE: PROVIDE BULLNOSE BLOCK AT ALL EXPOSED OUTSIDE CORNERS



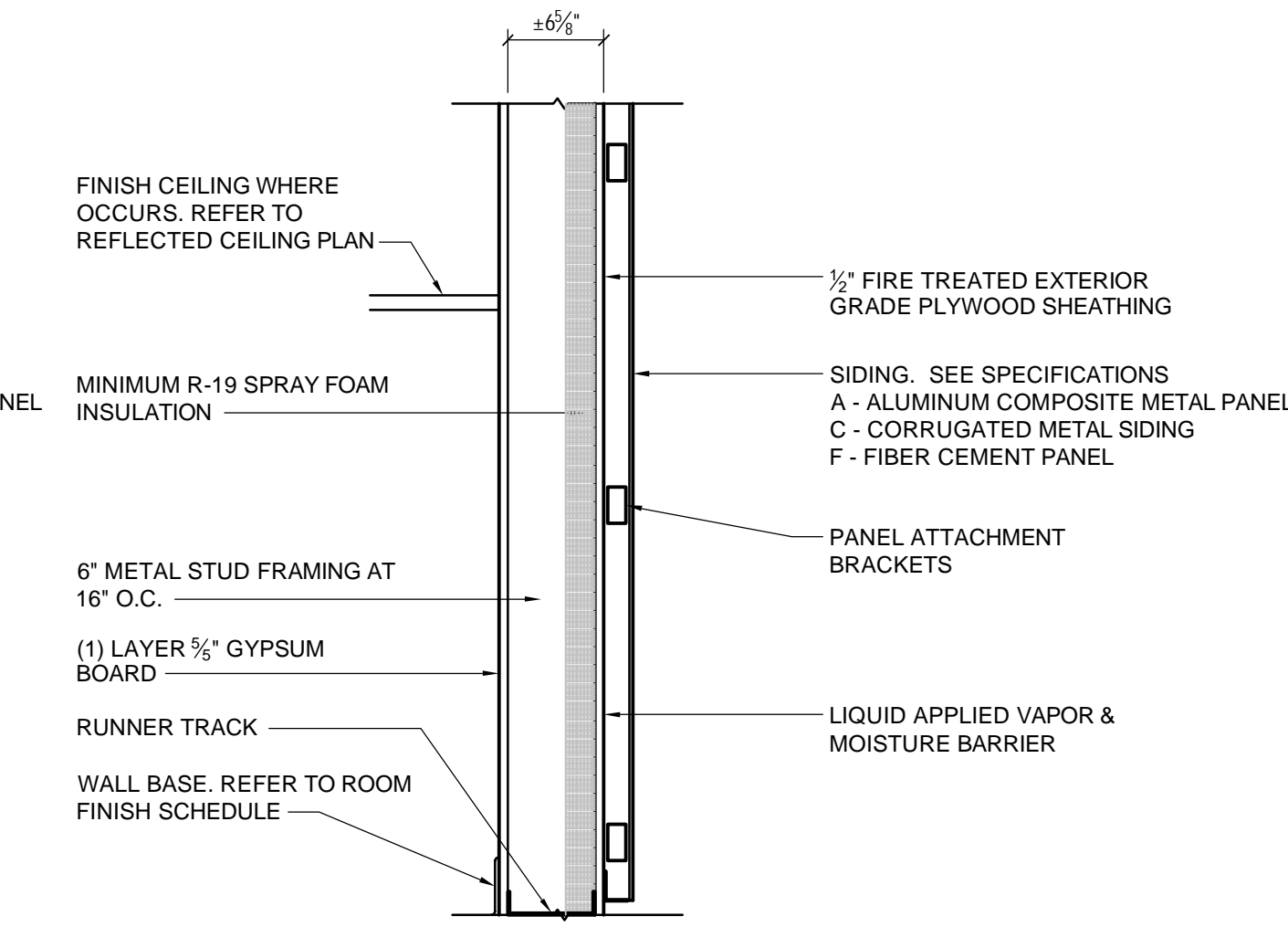
E1 WALL TYPE
 SCALE: 1"=1'-0"
 BRICK VENEER ON METAL STUDS



E2 WALL TYPE
 SCALE: 1"=1'-0"
 BRICK VENEER ON CONCRETE BLOCK
 NOTE: AT TRAINING ROOM #166 ALL CONCRETE BLOCK CELLS TO BE FILLED WITH GROUT IN LIEU OF INSULATION.



E3 WALL TYPE
 SCALE: 1"=1'-0"
 CEMENT PANEL VENEER



E4 WALL TYPE
 SCALE: 1"=1'-0"
 METAL PANEL VENEER

GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION.
- CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AND OBTAIN OWNER APPROVAL FOR ANY CHANGES.
- REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF FINISH MATERIALS.
- REFER TO WALL SECTIONS FOR ADDITIONAL WALL DETAILS & NOTES.
- REFER TO DOOR & WINDOW SHEETS A6.# FOR STOREFRONT PARTITIONS.
- REFER TO SHEET L5.1 FOR FIRE RATED PARTITIONS.
- REFER TO WALL SECTIONS, SHEETS A5.# FOR EXTERIOR WALL FOUNDATION DETAILS.
- REFER TO STRUCTURAL DRAWINGS FOR METAL STUD GAUGES AND BRACING REQUIREMENTS.

PARTITION NOTES

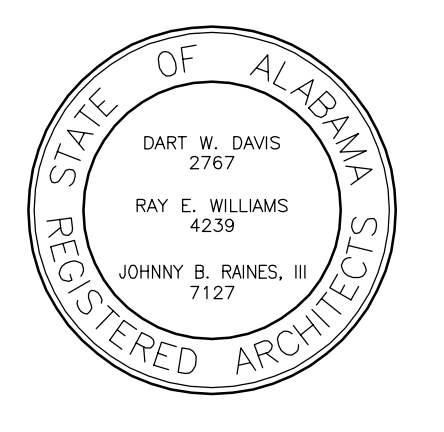
- STUD DESIGN CRITERIA: ALL INTERIOR, NON-LOAD BEARING METAL STUDS SHALL BE 25 GAUGE (MIN.) UNLESS OTHERWISE NOTED. PROVIDE 5 PSF MIN. APPLIED LATERAL LOAD, L240 MAX. DEFLECTION.
- ALL FIRE RATED PARTITIONS MUST EXTEND AND SEAL TO DECK ABOVE.
- TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.
- PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH. INSTALL 1/2" CEMENT BACKING BOARD AT ALL WALLS OF SHOWERS AND SHOWER DRYING AREAS.
- PROVIDE MOLD & MOISTURE RESISTANT GYPSUM BOARD AT RESTROOMS AND JANITOR CLOSETS.
- PROVIDE 1/2" FIRE RATED GYPSUM BOARD UNLESS OTHERWISE NOTED.
- PROVIDE 1/2" TYPE X GYPSUM BOARD AT FIRE RATED PARTITIONS.
- PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/ MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.
- WHEN INSTALLING GYPSUM BOARD, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE MOST CURRENT EDITION OF THE GYPSUM ASSOCIATION 'GA-800' FIRE RESISTANCE DESIGN MANUAL AND THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
- PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE SHALL HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/2" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT OR FIRE STOPPING WHERE REQUIRED.
- GYPSUM BOARD SHALL BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".
- THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS SHALL BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE CONCRETE FLOOR SLAB AND SHALL BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- REFER TO THE FLOOR PLAN FOR EXTENT OF FIRE WALL RATINGS.
- PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.
- WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.
- REFER TO INTERIOR FINISH SCHEDULE FOR ALL WALL FINISHES.

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NEW FIRE STATION NO. 10
 FOR
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 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
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2	Conformance Documents	05-17-2023	

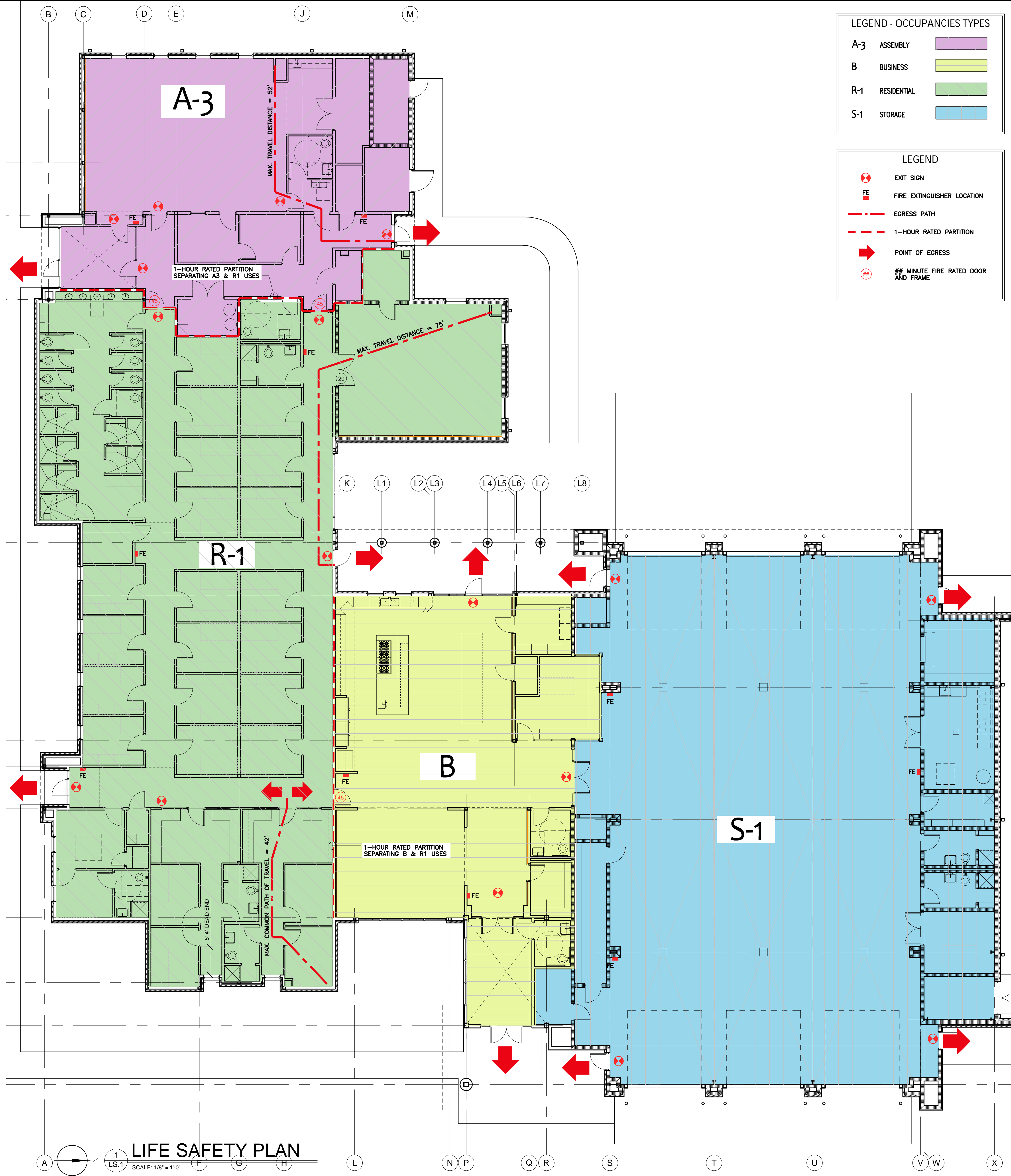
MGM Project No. SP-5-21
 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED

Drawing Title:
 WALL TYPES AND PARTITION NOTES

Sheet No:

A0.2

CONFORMANCE DOCUMENTS



LEGEND - OCCUPANCY TYPES

A-3	ASSEMBLY	
B	BUSINESS	
R-1	RESIDENTIAL	
S-1	STORAGE	

LEGEND

EXIT SIGN	EXIT SIGN
FE	FIRE EXTINGUISHER LOCATION
	EGRESS PATH
	1-HOUR RATED PARTITION
➔	POINT OF EGRESS
#	MINUTE FIRE RATED DOOR AND FRAME

LIFE SAFETY AND CODE REQUIREMENTS

APPLICABLE CODES AND STANDARDS

INTERNATIONAL BUILDING CODE	2021 EDITION
INTERNATIONAL MECHANICAL CODE	2021 EDITION
INTERNATIONAL FUEL GAS CODE	2021 EDITION
INTERNATIONAL PLUMBING CODE	2021 EDITION
INTERNATIONAL FIRE CODE	2021 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE	2021 EDITION
NATIONAL ELECTRICAL CODE (NEC)	2020 EDITION
NFPA 24	

BUILDING SUMMARY

NEW 21,640 SQ.FT. FULLY SPRINKLERED FIRE STATION OF TYPE IIB CONSTRUCTION WITH COMMUNITY ASSEMBLY AREA, FIRE FIGHTER LIVING SPACES AND FIRE VEHICLE PARKING / MAINTENANCE BAYS

OCCUPANCY CLASSIFICATION

INTERNATIONAL BUILDING CODE 2018 - MULTIPLE OCCUPANCY

OCCUPANCY USE CATEGORY:
 A-3 (IBC 303.4).....COMMUNITY HALLS
 B (IBC 304.1).....BUSINESS
 R-1 (IBC 310.2).....CONGREGATE LIVING FACILITIES
 S-1 (IBC 311.2).....MOTOR VEHICLE GARAGES

ACCESSORY USE AREAS:
 STORAGE S-1 (IBC 508.2)
 LAUNDRY (IBC TABLE 509)

INCIDENTAL USE AREAS:
 LAUNDRY (IBC TABLE 509)

ALLOWABLE HEIGHT AND AREA

GROUP - TYPE II B	ALLOWABLE HEIGHT	ALLOWABLE AREA	BUILDING AREA
ASSEMBLY A-3	3 STORIES /75 FT.	38,000 S.F.	21,640 S.F.
BUSINESS	4 STORIES /75 FT.	92,000 S.F.	
RESIDENTIAL R-1	5 STORIES /75 FT.	64,000 S.F.	
STORAGE S-1	3 STORIES /75 FT.	70,000 S.F.	
IBC TABLE 504.3, 504.4 AND 506.2			

SEPARATION OF OCCUPANCIES

IBC TABLE 508.4 - FULLY SPRINKLERED

GROUPS	SEPARATION
ASSEMBLY A-3 / RESIDENTIAL R-1	1 HOUR
RESIDENTIAL R-1 / BUSINESS B	1 HOUR
STORAGE S-1 / BUSINESS B	0 HOUR

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS

BUILDING ELEMENT	TYPE II B
STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
NON BEARING WALLS AND PARTITIONS EXTERIOR	0
NON BEARING WALLS AND PARTITIONS INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

EXTERIOR WALLS - BEARING (TABLE 602):
 GREATER THAN 30 FEET SEPARATION - NO FIRE RESISTANCE RATING REQUIRED.

EXTERIOR WALL OPENINGS (TABLE 705.8):
 GREATER THAN 30 FEET SEPARATION DISTANCE - NO LIMIT

FIRE WALLS (TABLE 706.4) - NONE

FIREBLOCKING (IBC 718.2) - NOT REQUIRED AT 2B CONSTRUCTION

DRAFTSTOPPING (IBC 718.3/718.4) - NOT REQUIRED AT 2B CONSTRUCTION

FIRE PROTECTION

FIRE SUPPRESSION SYSTEM (903.2.x/903.3.1.1) - REQUIRED / PROVIDED

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT STORIES GROUP A-3 OCCUPANCIES, 903.2.1.3

AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT BUILDINGS CLASSIFIED AS ENCLOSED PARKING GARAGE IN ACCORDANCE WITH SECTION 406.6.

FIRE EXTINGUISHERS (906.1) - INSTALL ABC DRY CHEMICAL, LOCATED AS SHOWN ON PLANS AND PER FIRE INSPECTOR FIELD REVIEW, NFPA 10, AND THE INTERNATIONAL FIRE CODE (IFC).

FIRE ALARM SYSTEM - REFER TO ELECTRICAL DRAWINGS FOR FIRE ALARM PROVISIONS.

DESIGN OCCUPANT LOAD

OCCUPANT LOAD FACTORS (IBC TABLE 1004.5) :

ZONE	AREA	PERSONS
ASSEMBLY WITHOUT FIXED SEATS: 1/15 NET	1,864 S.F.	125
BUSINESS AREAS: 1/150 GROSS	3,170 S.F.	22
SLEEPING AREAS: 1/120 GROSS	6,417 S.F.	54
WAREHOUSE: 1/500 GROSS	7,530 S.F.	15
ACTUAL TOTAL OCCUPANTS		216

NUMBER OF MEANS OF EGRESS

TWO EXITS OR EXIT ACCESS (MEANS OF EGRESS) ARE REQUIRED AS NOTED IN IBC TABLE 1015.1. TEN EXITS PROVIDED.

ARRANGEMENT OF MEANS OF EGRESS

THE EXITS ARE ARRANGED SO THAT THEY MEET THE SEPARATE AND REMOTE REQUIREMENTS OF THE IBC.

COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)
 THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 100 FEET FROM ANY POINT TO A POINT WHERE AN OCCUPANT HAS A CHOICE OF TWO PATHS OF EGRESS TRAVEL TO TWO EXITS. ACTUAL MAXIMUM COMMON PATH = 42 FEET.

LENGTH OF EXIT ACCESS TRAVEL (TABLE 1017.2):
 250 FEET WITH SPRINKLER SYSTEM. ACTUAL MAXIMUM LENGTH = 75 FEET

DEAD ENDS (1020.4)
 WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 50 FEET IN LENGTH. ACTUAL DEAD END CORRIDOR LENGTH = 5'-4"

MARKING OF MEANS OF EGRESS

ALL MEANS OF EGRESS SHALL BE PROVIDED WITH ACCEPTABLE EXIT SIGNS WHICH DESIGNATE THE EXITS AND THE DIRECTION OF TRAVEL TO THE EXITS ACCORDING TO IBC SECTION 1011.

EMERGENCY LIGHTING

ADEQUATE EMERGENCY LIGHTING IS REQUIRED ACCORDING TO IBC SECTION 1008.

INTERIOR FINISHES

ALL INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH IBC TABLE 803.1 FOR STORAGE OCCUPANCY OF AN UNSPRINKLERED BUILDING.

ALL INTERIOR FLOOR FINISHES IN EXIT ACCESS AREAS OR EXIT CORRIDORS SHALL COMPLY WITH IBC SECTION 804.4.1 AND SHALL HAVE MINIMUM CLASS II FINISHES.

ACCESSIBILITY

ACCESSIBILITY (2010 ADA STANDARDS FOR ACCESSIBLE DESIGN): REQUIRED/ PROVIDED.

UTILITIES

ALL ELECTRICAL SERVICES SHALL COMPLY WITH NFPA 70 - NATIONAL ELECTRICAL CODE.

HEATING, VENTILATING & AIR CONDITIONING EQUIPMENT

ALL HVAC EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF NFPA 101 SECTION 9.2 (NFPA 90A)

PLUMBING

ALL PLUMBING SYSTEM INSTALLATION MUST COMPLY WITH THE PROVISIONS OF THE INTERNATIONAL PLUMBING CODE.

PLUMBING FIXTURES

THE BUILDING IS A ONE OF TWO BUILDINGS ON THE SAME LOT, AND SHALL BE REGULATED AS A PORTION OF ONE BUILDING. THE BUILDING HEIGHTS AND AREAS ARE WITHIN THE LIMITS SPECIFIED IN SECTIONS 504 AND 506. ALL PLUMBING FIXTURES ARE PROVIDED IN THE ADJACENT BUILDING.

TOILET ROOM AND PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1):

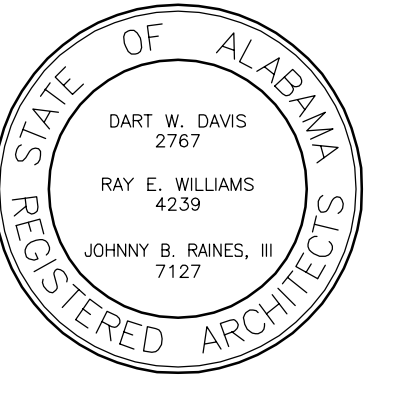
216 OCCUPANTS	1 REQUIRED, 2 PROVIDED	1 REQUIRED, 1 PROVIDED
DRINKING FOUNTAINS		
SERVICE SINKS		
ASSEMBLY:	125 OCCUPANTS: 63 MALES / 63 FEMALES	
WATER CLOSETS	1 REQ'D / 1 PROV'D	1 REQ'D / 1 PROV'D
URINALS	0 REQ'D / 0 PROV'D	0 REQ'D / 0 PROV'D
LAVATORIES	1 REQ'D / 1 PROV'D	1 REQ'D / 1 PROV'D
RESIDENTIAL / BUSINESS: 76 OCCUPANTS: 39 MALES / 39 FEMALES		
WATER CLOSETS	4 REQ'D / 7 PROV'D	4 REQ'D / 7 PROV'D
URINALS	0 REQ'D / 0 PROV'D	0 REQ'D / 0 PROV'D
LAVATORIES	4 REQ'D / 6 PROV'D	4 REQ'D / 5 PROV'D
SHOWERS	5 REQ'D / 5 PROV'D	5 REQ'D / 5 PROV'D
STORAGE :	15 OCCUPANTS: 8 MALES / 8 FEMALES	
WATER CLOSETS	1 REQ'D / 1 PROV'D	1 REQ'D / 1 PROV'D
URINALS	0 REQ'D / 0 PROV'D	0 REQ'D / 0 PROV'D
LAVATORIES	1 REQ'D / 1 PROV'D	1 REQ'D / 1 PROV'D
SHOWERS	0 REQ'D / 1 PROV'D	0 REQ'D / 1 PROV'D

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NEW FIRE STATION NO. 10
 FOR
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 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
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 Drawing Title:

LIFE SAFETY PLAN
 AND CODE NOTES

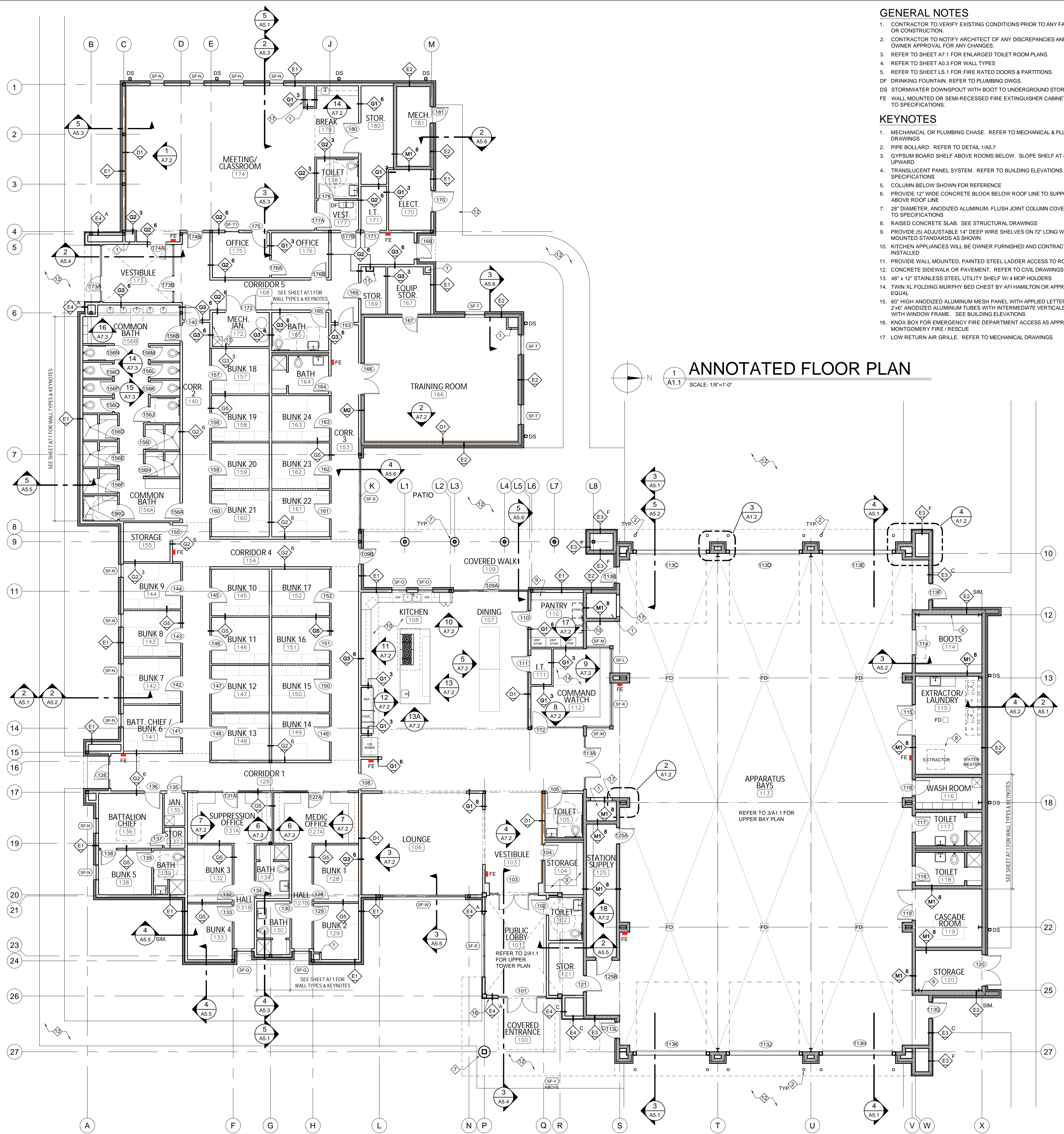
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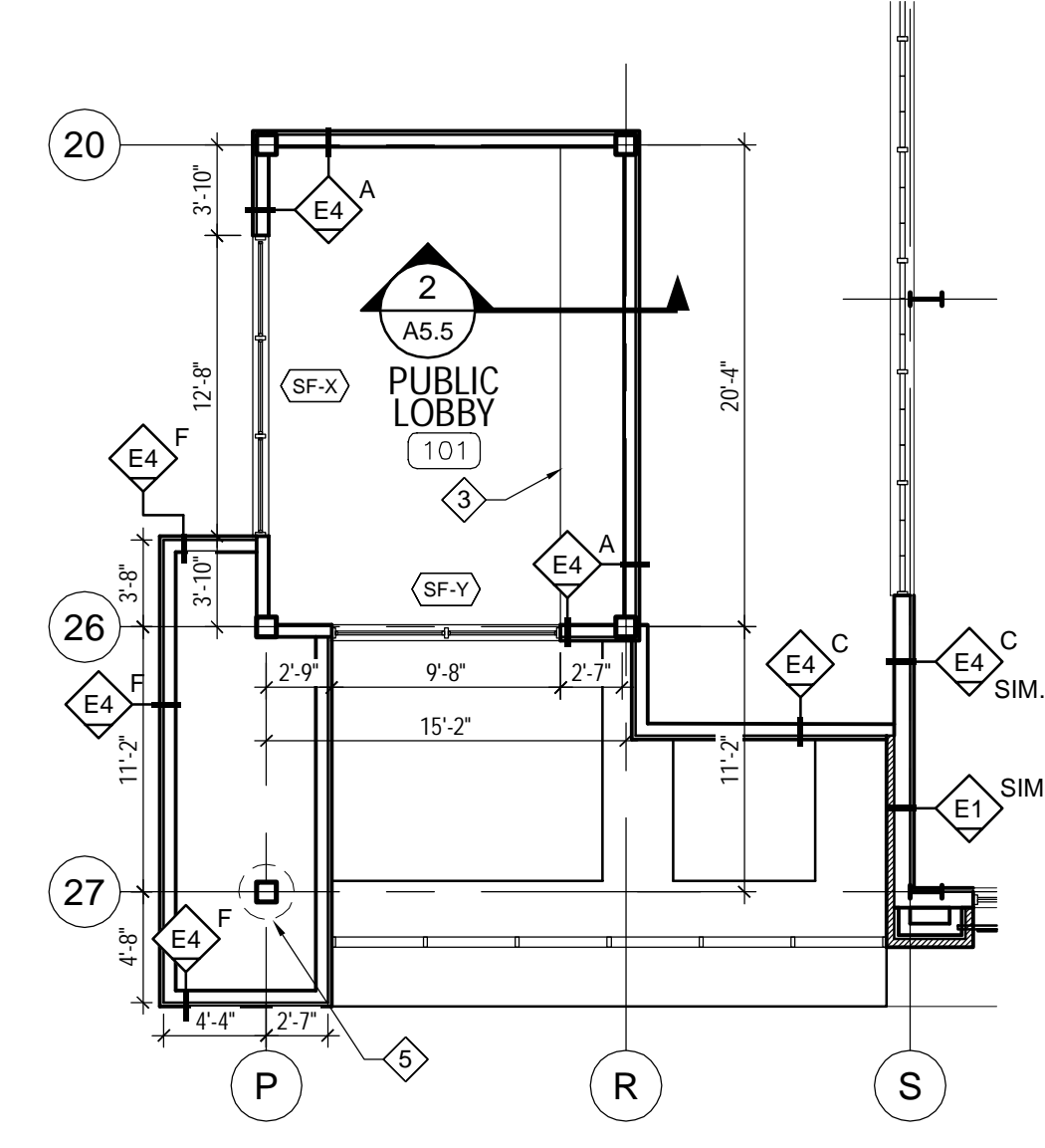
CONFORMANCE
 DOCUMENTS

GENERAL NOTES

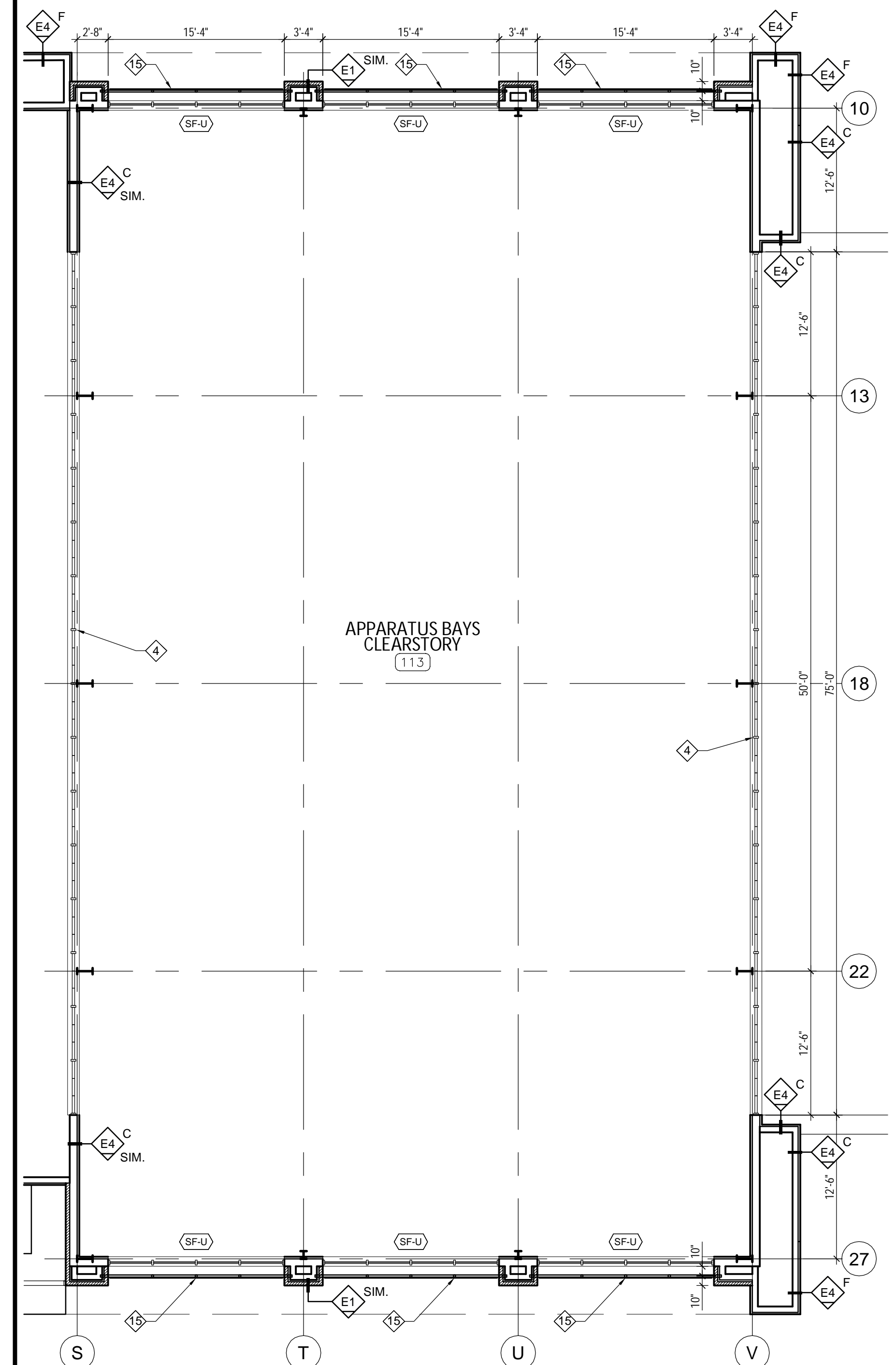
- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION.
 - CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AND OBTAIN OWNER APPROVAL FOR ANY CHANGES.
 - REFER TO SHEET A7.1 FOR ENLARGED TOILET ROOM PLANS.
 - REFER TO SHEET A0.3 FOR WALL TYPES
 - REFER TO SHEET LS.1 FOR FIRE RATED DOORS & PARTITIONS
 - DRINKING FOUNTAIN. REFER TO PLUMBING DWGS.
 - STORMWATER DOWNSPOUT WITH BOOT TO UNDERGROUND STORM DRAIN.
 - WALL MOUNTED OR SEMI-RECESSED FIRE EXTINGUISHER CABINET. REFER TO SPECIFICATIONS.
- KEYNOTES**
- MECHANICAL OR PLUMBING CHASE. REFER TO MECHANICAL & PLUMBING DRAWINGS
 - PIPE BOLLARD. REFER TO DETAIL 1/A5.7
 - GYPSUM BOARD SHELF ABOVE ROOMS BELOW. SLOPE SHELF AT 45 DEGREES UPWARD
 - TRANSLUCENT PANEL SYSTEM. REFER TO BUILDING ELEVATIONS AND SPECIFICATIONS
 - COLUMN BELOW SHOWN FOR REFERENCE
 - PROVIDE 12" WIDE CONCRETE BLOCK BELOW ROOF LINE TO SUPPORT BRICK ABOVE ROOF LINE
 - 28" DIAMETER, ANODIZED ALUMINUM, FLUSH JOINT COLUMN COVER. REFER TO SPECIFICATIONS
 - RAISED CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
 - PROVIDE (5) ADJUSTABLE 14" DEEP WIRE SHELVES ON 72" LONG WALL MOUNTED STANDARDS AS SHOWN
 - KITCHEN APPLIANCES WILL BE OWNER FURNISHED AND CONTRACTOR INSTALLED
 - PROVIDE WALL MOUNTED, PAINTED STEEL LADDER ACCESS TO ROOF HATCH
 - CONCRETE SIDEWALK OR PAVEMENT. REFER TO CIVIL DRAWINGS
 - 48" x 12" STAINLESS STEEL UTILITY SHELF W/ 4 MOP HOLDERS
 - TWIN XL FOLDING MURPHY BED CHEST BY AFI HAMILTON OR APPROVED EQUAL
 - 60" HIGH ANODIZED ALUMINUM MESH PANEL WITH APPLIED LETTERING ON 2" x 4" ANODIZED ALUMINUM TUBES WITH INTERMEDIATE VERTICALS TO ALIGN WITH WINDOW FRAME. SEE BUILDING ELEVATIONS
 - KNOX BOX FOR EMERGENCY FIRE DEPARTMENT ACCESS AS APPROVED BY MONTGOMERY FIRE / RESCUE
 - LOW RETURN AIR GRILLE. REFER TO MECHANICAL DRAWINGS



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



TOWER PLAN
SCALE: 1/8"=1'-0"



CLEARSTORY PLAN
SCALE: 1/8"=1'-0"

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ANNOTATED FLOOR PLAN

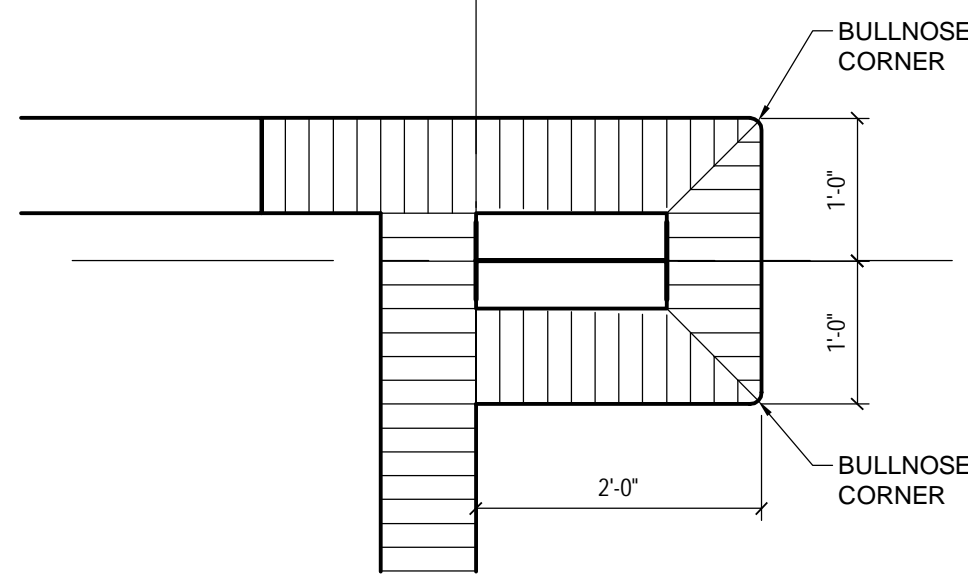
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CONFORMANCE DOCUMENTS

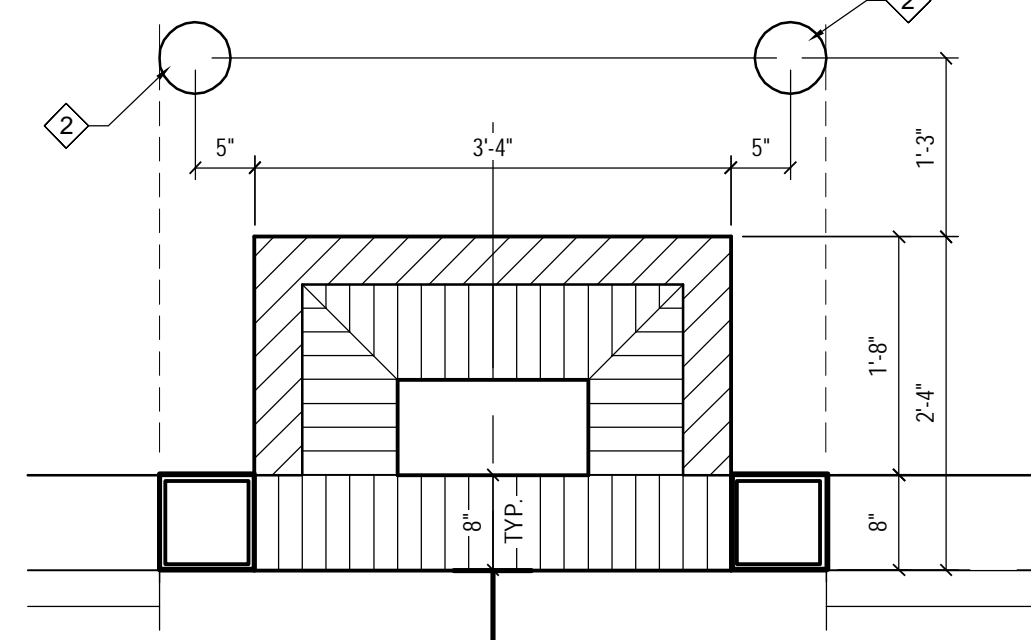
GENERAL NOTES

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2. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AND OBTAIN OWNER APPROVAL FOR ANY CHANGES.
3. REFER TO SHEET A7.1 FOR ENLARGED TOILET ROOM PLANS.
4. COORDINATE DIMENSIONS OF OPENINGS WITH DOOR & WINDOW SCHEDULES.
5. REFER TO SHEET A1.1 FOR LIST OF KEYNOTES APPEARING ON THIS SHEET.



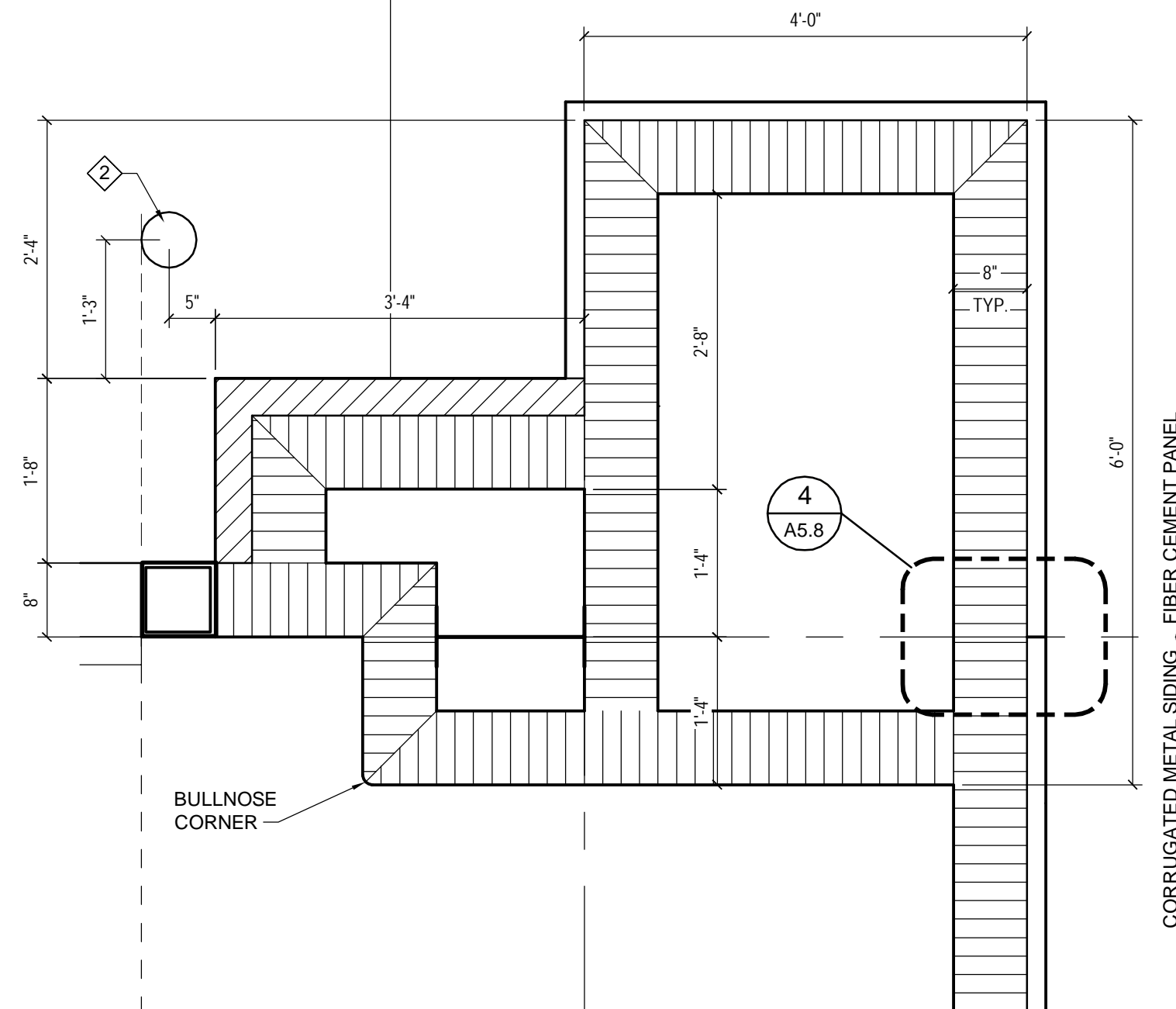
2 ENLARGED DETAIL

A1.2 SCALE: 3/4"=1'-0"



3 ENLARGED DETAIL

A1.2 SCALE: 3/4"=1'-0"



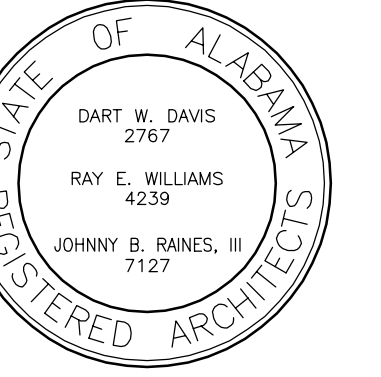
4 ENLARGED DETAIL

A1.2 SCALE: 3/4"=1'-0"



DIMENSIONED FLOOR PLAN

1 A1.2 SCALE: 1/8"=1'-0"



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DIMENSIONED FLOOR PLAN

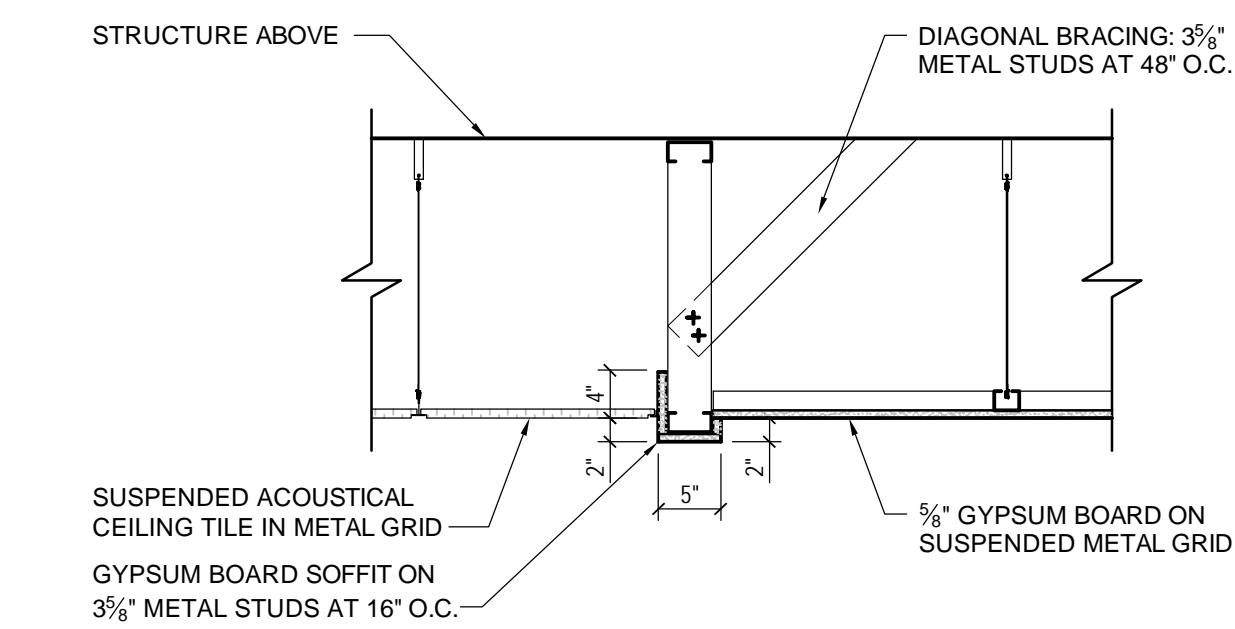
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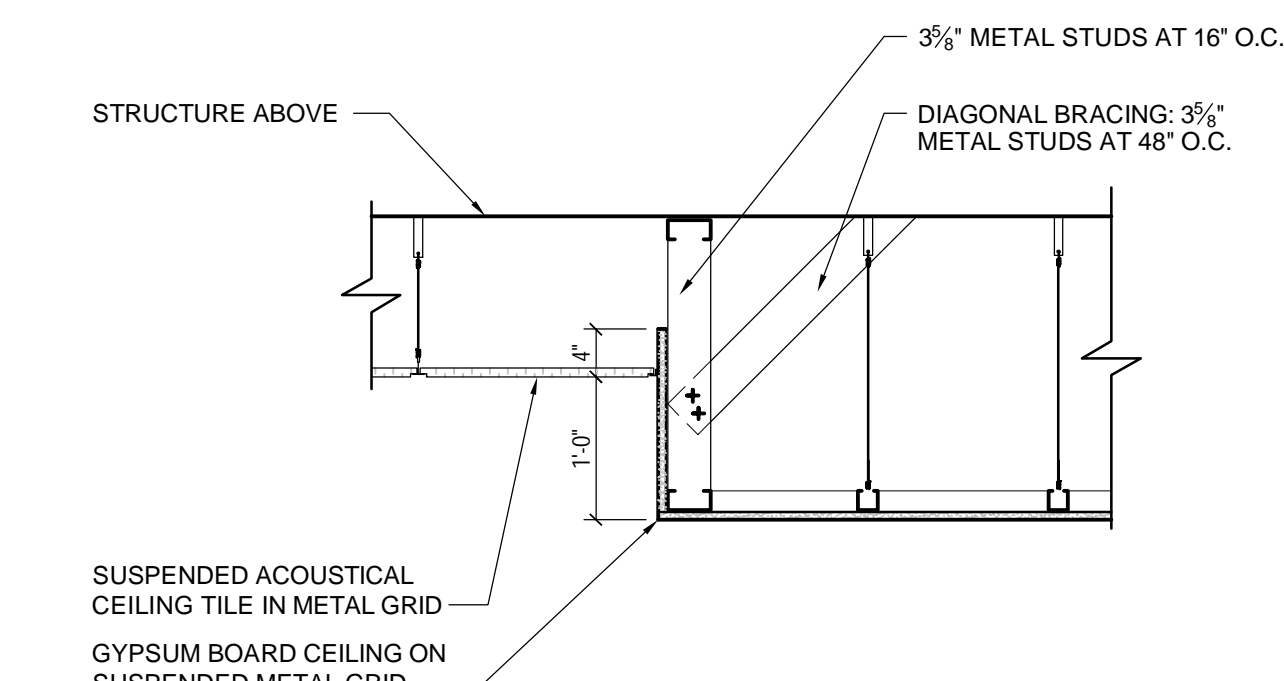
CONFORMANCE DOCUMENTS

CEILING LEGEND	
	2x2 LAY-IN ACOUSTICAL CEILING TILE (ACT-1)
	MOISTURE RESISTANT GYPSUM BOARD
	PAINTED GYPSUM BOARD
	PAINTED EXPOSED STRUCTURE
	PRE-FINISHED VENTED METAL SOFFIT PANELS - LINEAR
	RETURN AIR PLENUM. SEE NOTE ON PLAN

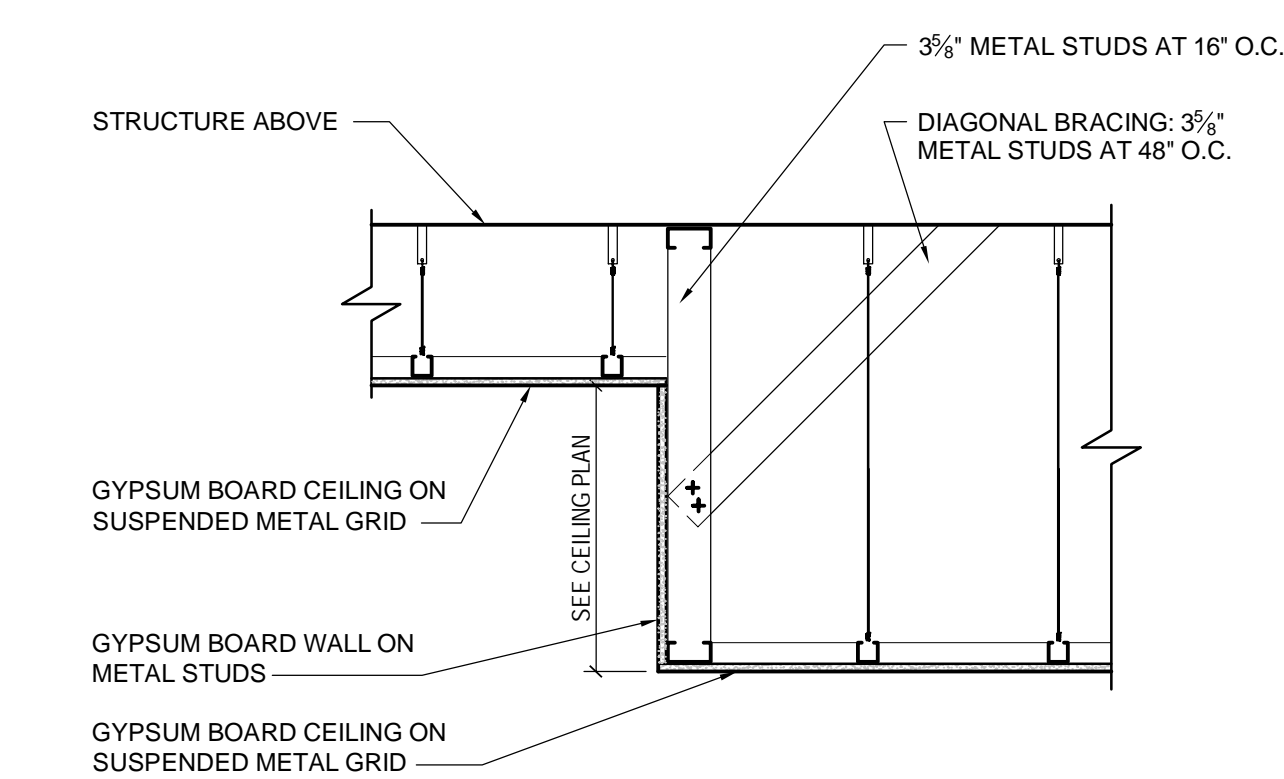
FIXTURE LEGEND			
	2 X 4 LIGHT FIXTURE		SCONCE FIXTURE
	2 X 2 LIGHT FIXTURE		UPLIGHT FIXTURE
	4 LED FIXTURE		PENDANT FIXTURE
	WALL-MOUNTED FIXTURE		RETURN AIR GRILLE
	RECESSED LIGHT FIXTURE		SUPPLY AIR DIFFUSER
	EXIT LIGHT		EXHAUST FAN
	UNDERCOUNTER LIGHTS		
	LED LIGHT STRIP		



3
A2.1
SCALE: 3/4"=1'-0"

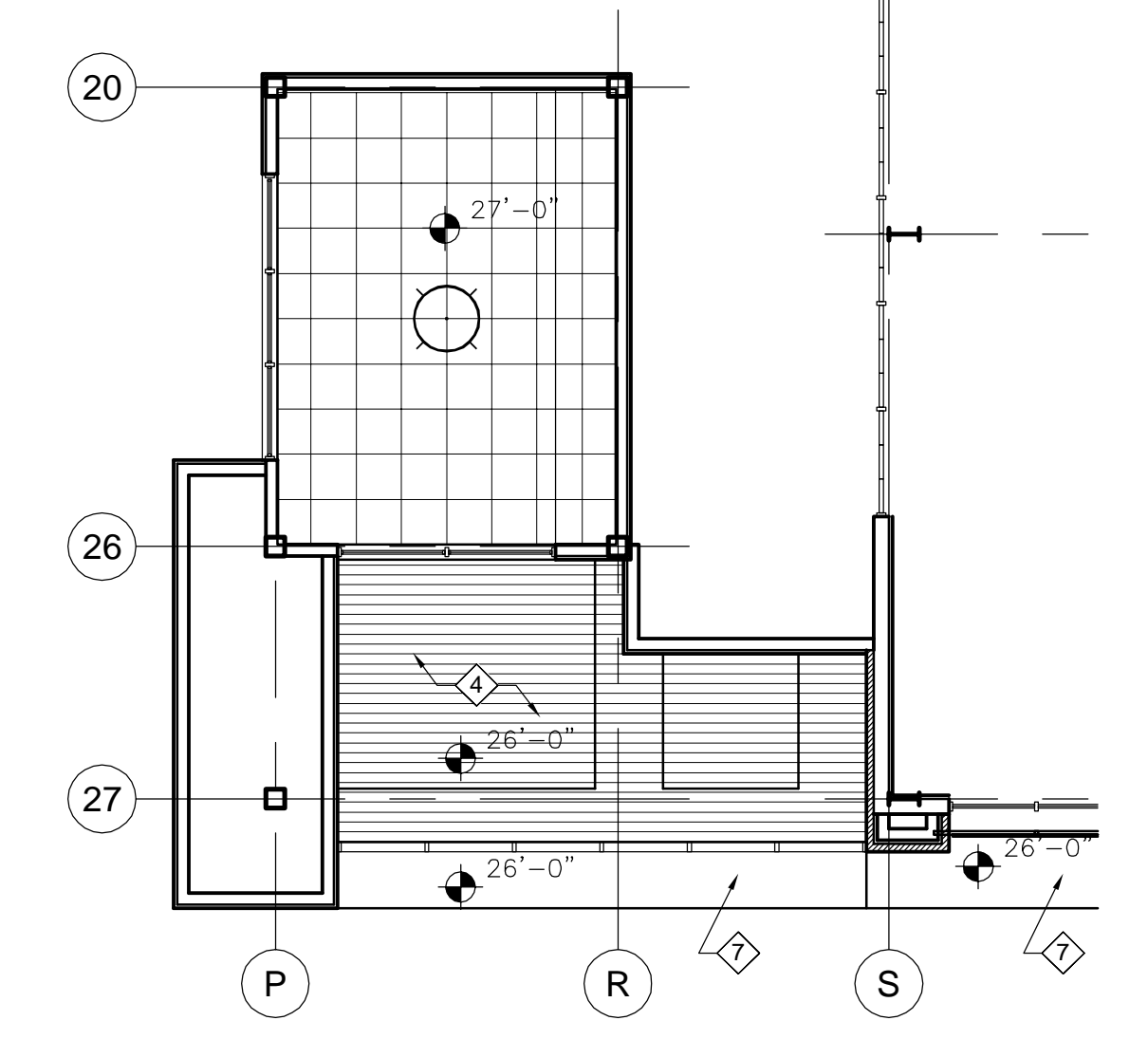
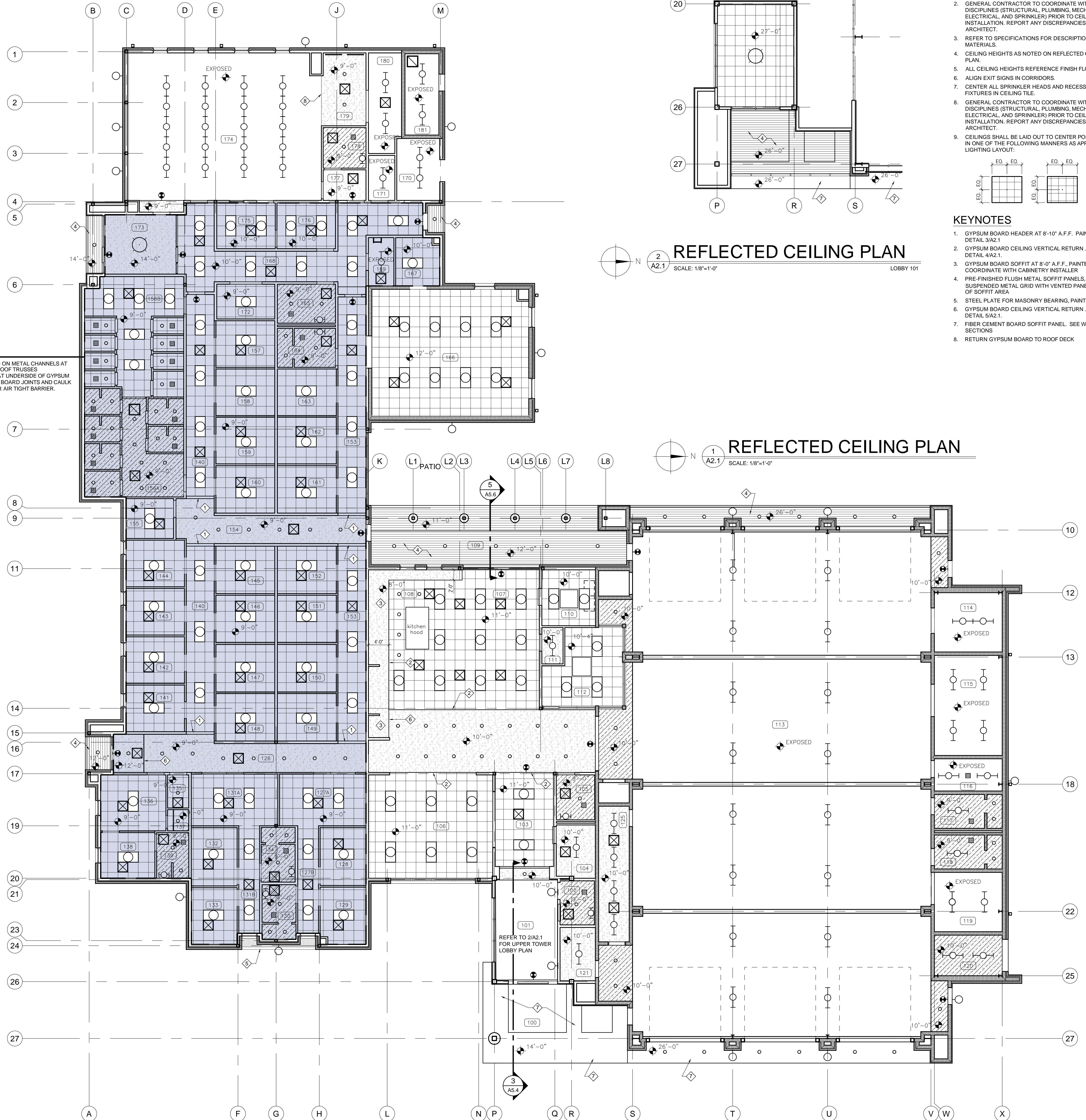


4
A2.1
SCALE: 3/4"=1'-0"



5
A2.1
SCALE: 3/4"=1'-0"

RETURN AIR PLENUM:
PROVIDE 1/2" GYPSUM BOARD ON METAL CHANNELS AT 16" O.C. AT UNDERSIDE OF ROOF TRUSSES THROUGHOUT THIS AREA. AT UNDERSIDE OF GYPSUM BOARD TAPE ALL BOARD TO BOARD JOINTS AND CAULK BOARD TO WALL JOINTS FOR AIR TIGHT BARRIER.

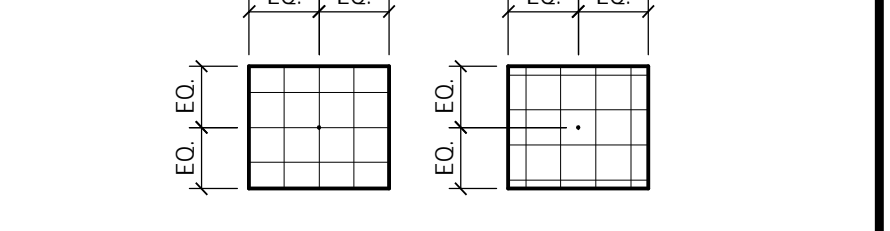


2
A2.1
SCALE: 1/8"=1'-0"



1
A2.1
SCALE: 1/8"=1'-0"

- ### GENERAL NOTES
- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION.
 - GENERAL CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES (STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND SPRINKLER) PRIOR TO CEILING INSTALLATION. REPORT ANY DISCREPANCIES TO ARCHITECT.
 - REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF FINISH MATERIALS.
 - CEILING HEIGHTS AS NOTED ON REFLECTED CEILING PLAN.
 - ALL CEILING HEIGHTS REFERENCE FINISH FLOOR BELOW.
 - ALIGN EXIT SIGNS IN CORRIDORS.
 - CENTER ALL SPRINKLER HEADS AND RECESSED CAN FIXTURES IN CEILING TILE.
 - GENERAL CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES (STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND SPRINKLER) PRIOR TO CEILING INSTALLATION. REPORT ANY DISCREPANCIES TO ARCHITECT.
 - CEILING SHALL BE LAID OUT TO CENTER POINT OF ROOM IN ONE OF THE FOLLOWING MANNERS AS APPLICABLE TO LIGHTING LAYOUT:



- ### KEYNOTES
- GYPSUM BOARD HEADER AT 8'-10" A.F.F. PAINTED. SEE DETAIL 3/A2.1
 - GYPSUM BOARD CEILING VERTICAL RETURN. SEE DETAIL 4/A2.1
 - GYPSUM BOARD SOFFIT AT 8'-0" A.F.F. PAINTED. COORDINATE WITH CABINETS INSTALLER
 - PRE-FINISHED FLUSH METAL SOFFIT PANELS ON SUSPENDED METAL GRID WITH VENTED PANELS AT 1/2 OF SOFFIT AREA
 - STEEL PLATE FOR MASONRY BEARING, PAINTED
 - GYPSUM BOARD CEILING VERTICAL RETURN. SEE DETAIL 5/A2.1
 - FIBER CEMENT BOARD SOFFIT PANEL. SEE WALL SECTIONS
 - RETURN GYPSUM BOARD TO ROOF DECK

Barganier
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NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	1	Construction Documents	02-03-2023
	2	Conformance Documents	05-17-2023

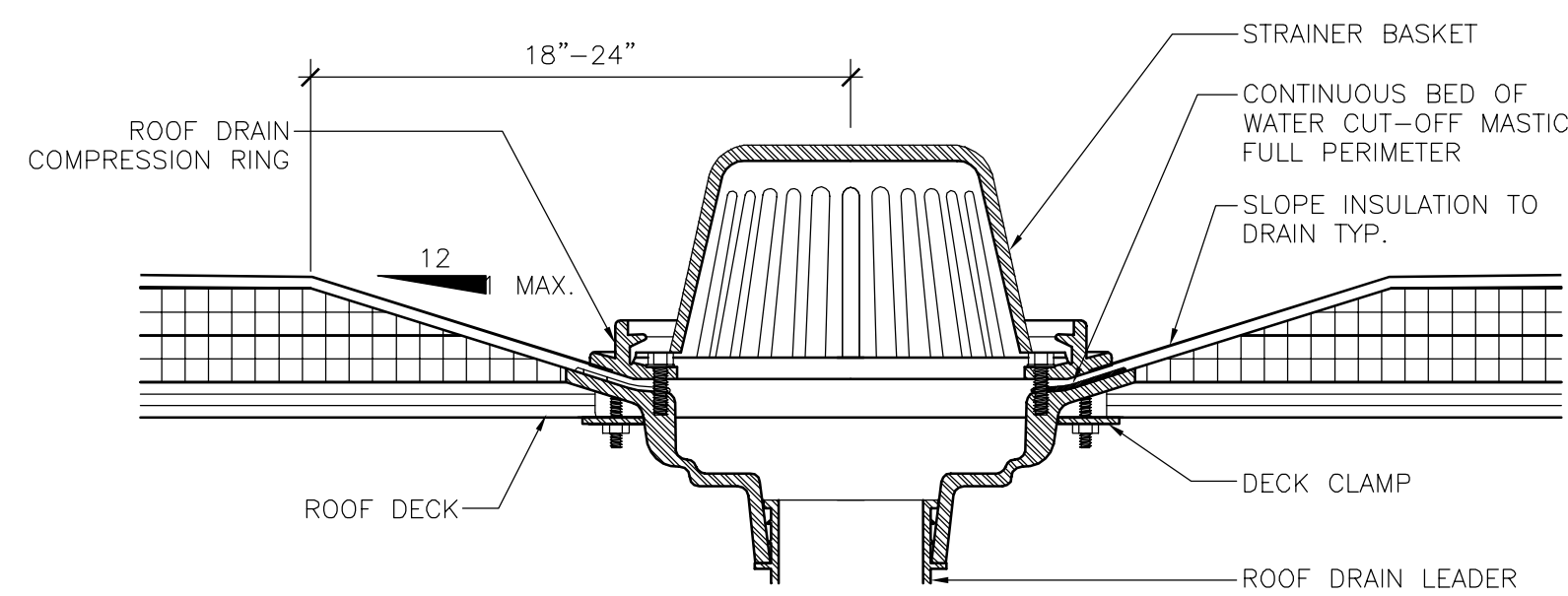
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

REFLECTED
CEILING PLAN

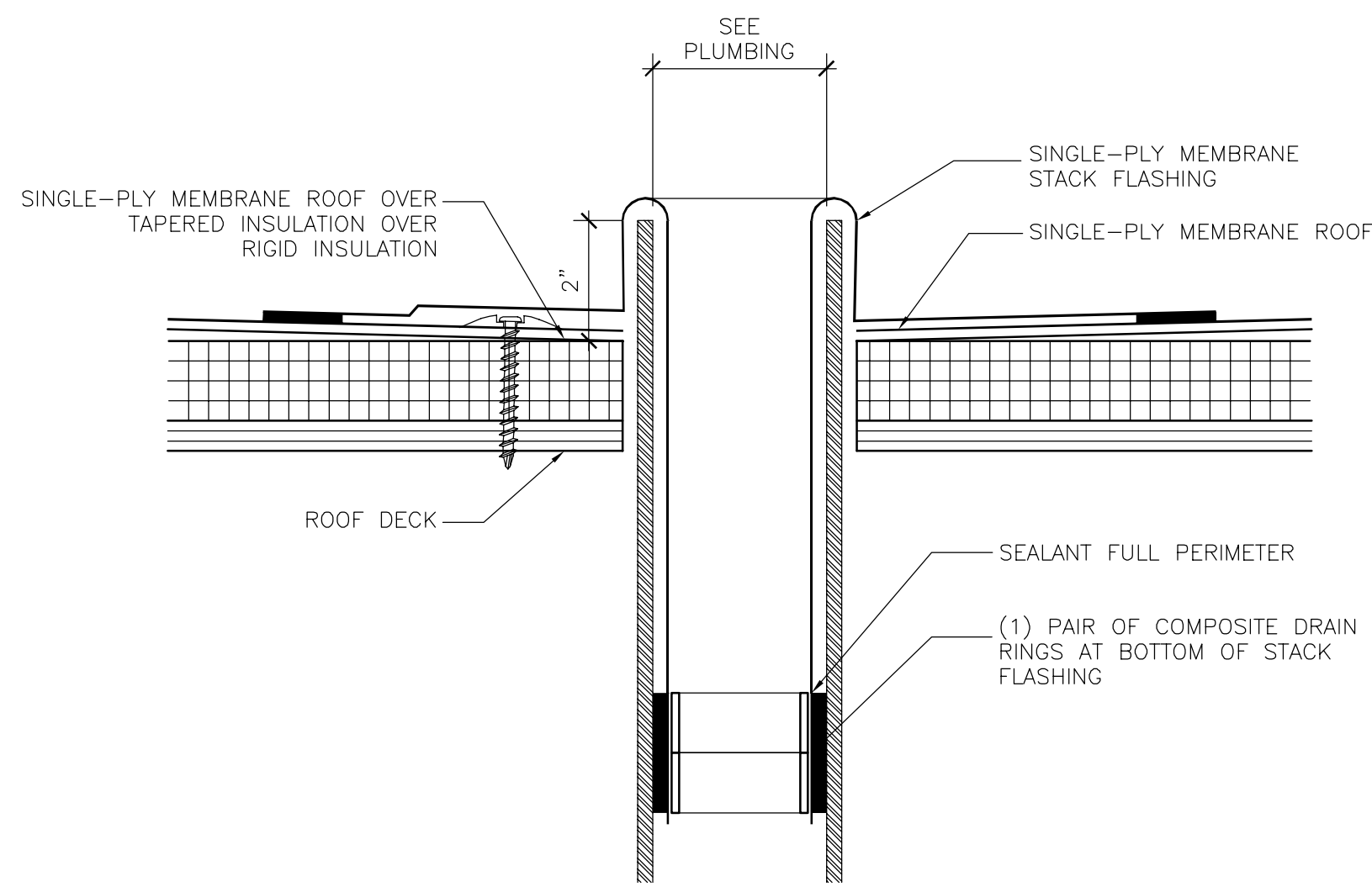
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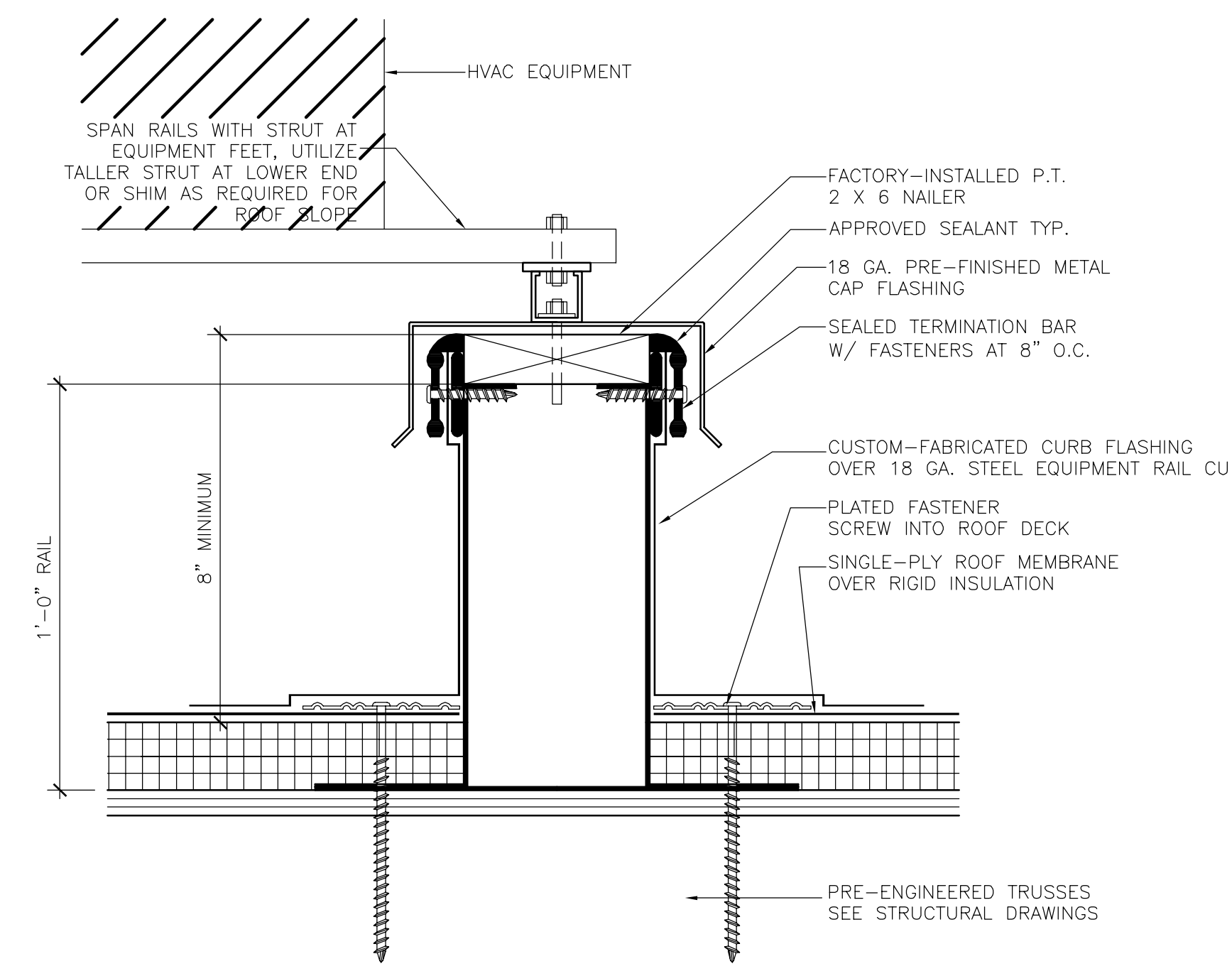
CONFORMANCE
DOCUMENTS



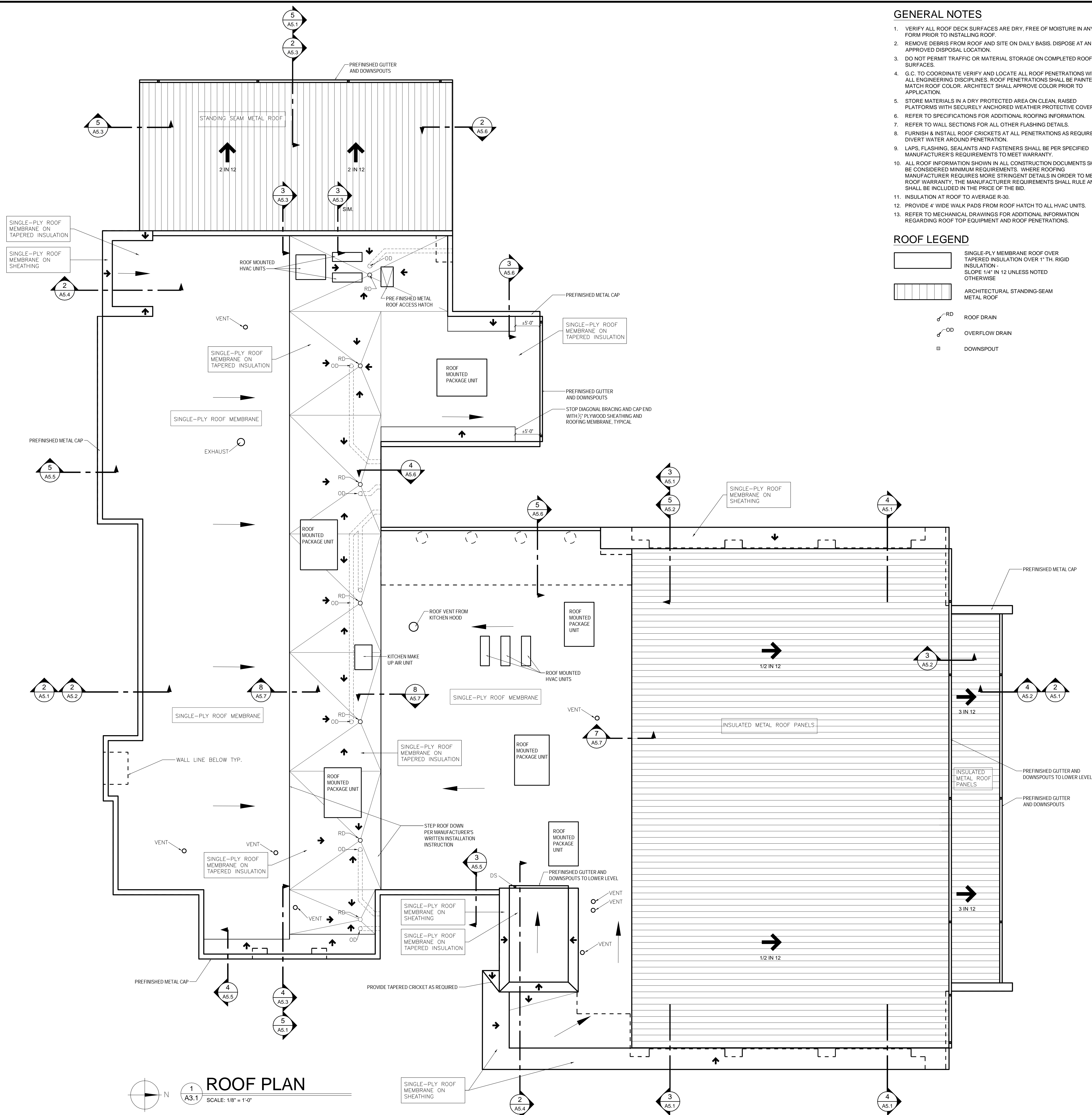
A
A3.1
TYPICAL ROOF DRAIN
SCALE: 1/8" = 1'-0"



B
A3.1
TYPICAL ROOF OVERFLOW
SCALE: 1/8" = 1'-0"



2
A3.1
TYPICAL ROOF CURB
SCALE: 1/8" = 1'-0"



1
A3.1
ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. VERIFY ALL ROOF DECK SURFACES ARE DRY, FREE OF MOISTURE IN ANY FORM PRIOR TO INSTALLING ROOF.
2. REMOVE DEBRIS FROM ROOF AND SITE ON DAILY BASIS. DISPOSE AT AN APPROVED DISPOSAL LOCATION.
3. DO NOT PERMIT TRAFFIC OR MATERIAL STORAGE ON COMPLETED ROOF SURFACES.
4. G.C. TO COORDINATE, VERIFY AND LOCATE ALL ROOF PENETRATIONS WITH ALL ENGINEERING DISCIPLINES. ROOF PENETRATIONS SHALL BE PAINTED TO MATCH ROOF COLOR. ARCHITECT SHALL APPROVE COLOR PRIOR TO APPLICATION.
5. STORE MATERIALS IN A DRY PROTECTED AREA ON CLEAN, RAISED PLATFORMS WITH SECURELY ANCHORED WEATHER PROTECTIVE COVERING.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL ROOFING INFORMATION.
7. REFER TO WALL SECTIONS FOR ALL OTHER FLASHING DETAILS.
8. FURNISH & INSTALL ROOF CRICKETS AT ALL PENETRATIONS AS REQUIRED TO DIVERT WATER AROUND PENETRATION.
9. LAPS, FLASHING, SEALANTS AND FASTENERS SHALL BE PER SPECIFIED MANUFACTURER'S REQUIREMENTS TO MEET WARRANTY.
10. ALL ROOF INFORMATION SHOWN IN ALL CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED MINIMUM REQUIREMENTS. WHERE ROOFING MANUFACTURER REQUIRES MORE STRINGENT DETAILS IN ORDER TO MEET ROOF WARRANTY, THE MANUFACTURER REQUIREMENTS SHALL RULE AND SHALL BE INCLUDED IN THE PRICE OF THE BID.
11. INSULATION AT ROOF TO AVERAGE R-30.
12. PROVIDE 4' WIDE WALK PADS FROM ROOF HATCH TO ALL HVAC UNITS.
13. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF TOP EQUIPMENT AND ROOF PENETRATIONS.

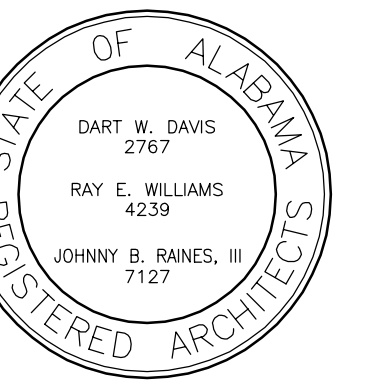
ROOF LEGEND

- SINGLE-PLY MEMBRANE ROOF OVER TAPERED INSULATION OVER 1" TH. RIGID INSULATION - SLOPE 1/4" IN 12 UNLESS NOTED OTHERWISE
- ARCHITECTURAL STANDING-SEAM METAL ROOF
- RD ROOF DRAIN
- OD OVERFLOW DRAIN
- DS DOWNSPOUT

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MGM Project No. SP-5-21
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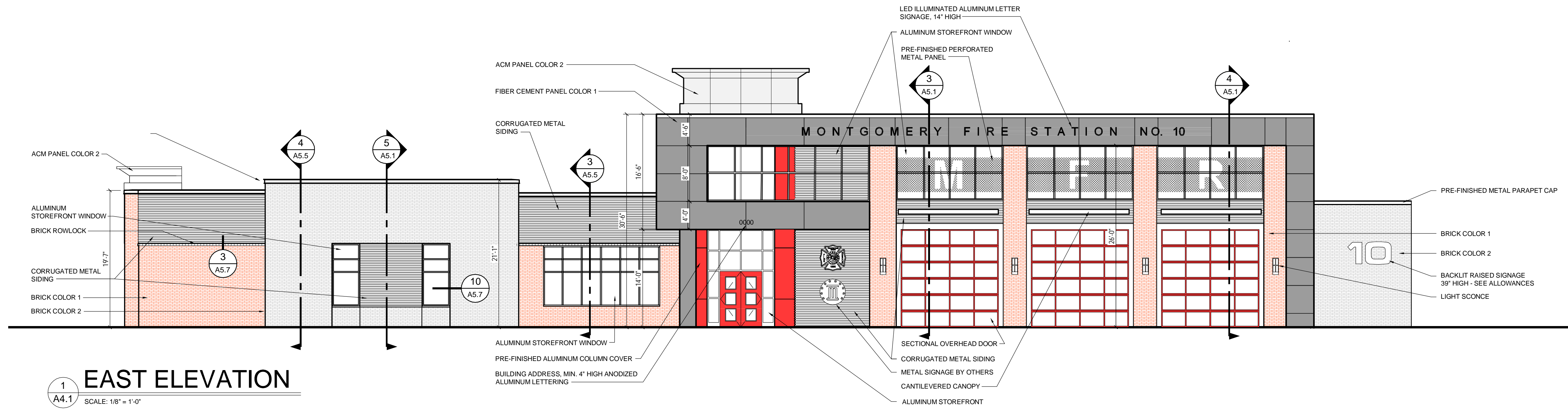
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ROOF PLAN

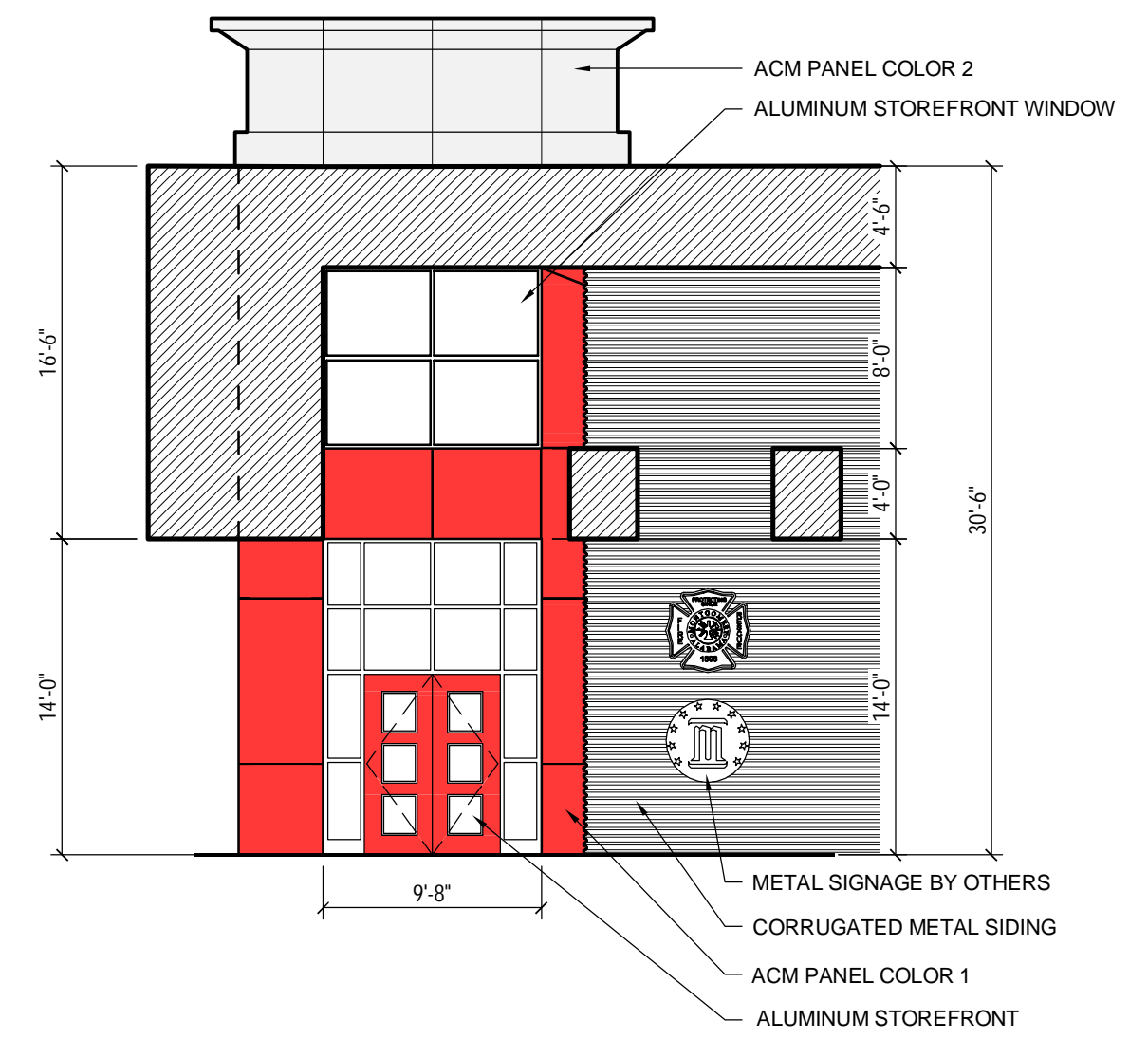
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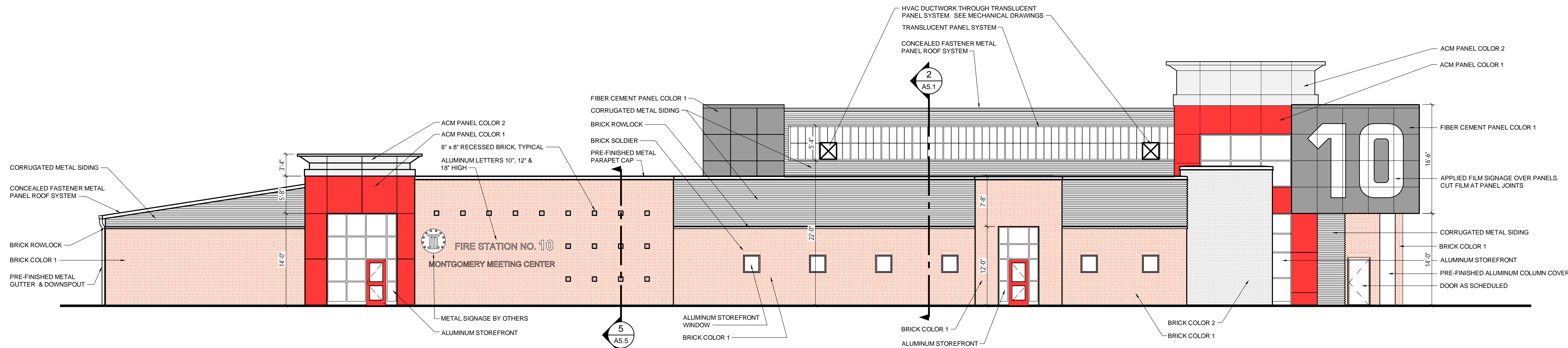
CONFORMANCE DOCUMENTS



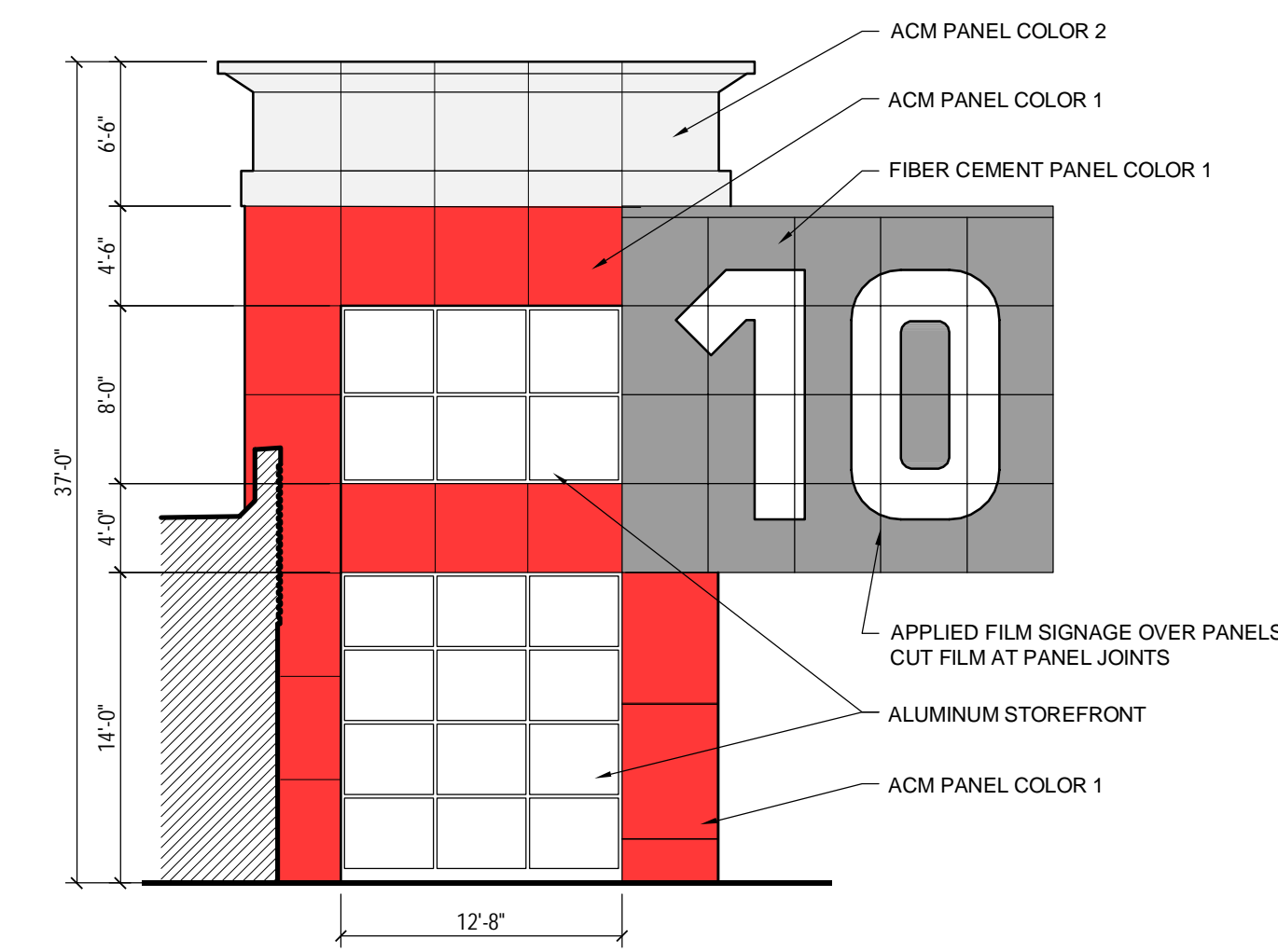
1 EAST ELEVATION
A4.1 SCALE: 1/8" = 1'-0"



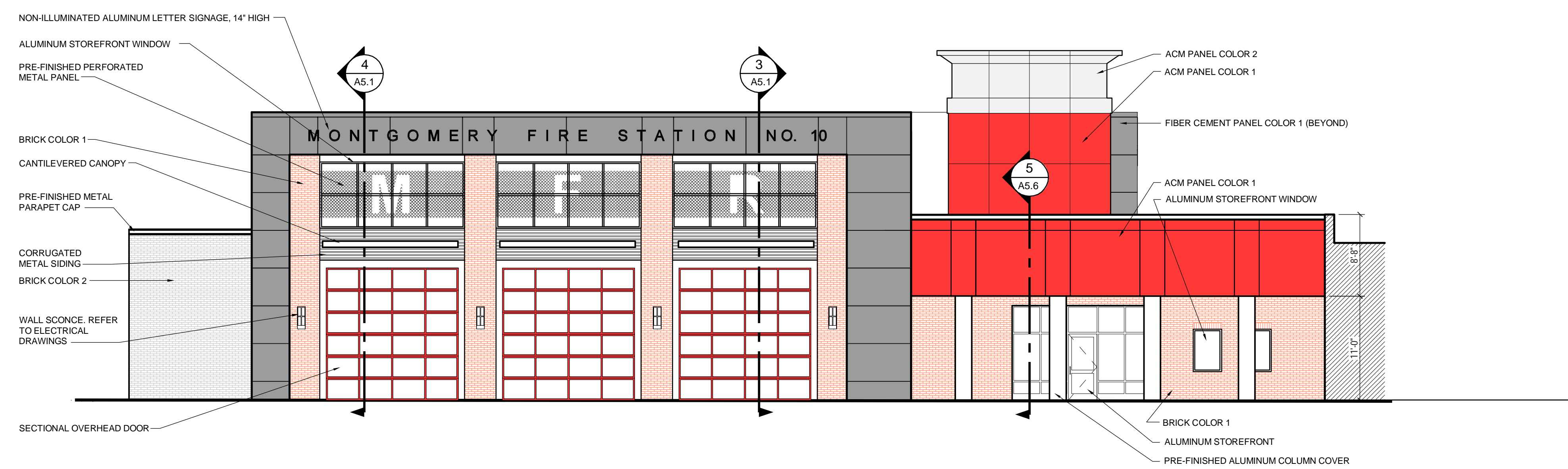
1A EAST ELEVATION
A4.1 SCALE: 1/8" = 1'-0"



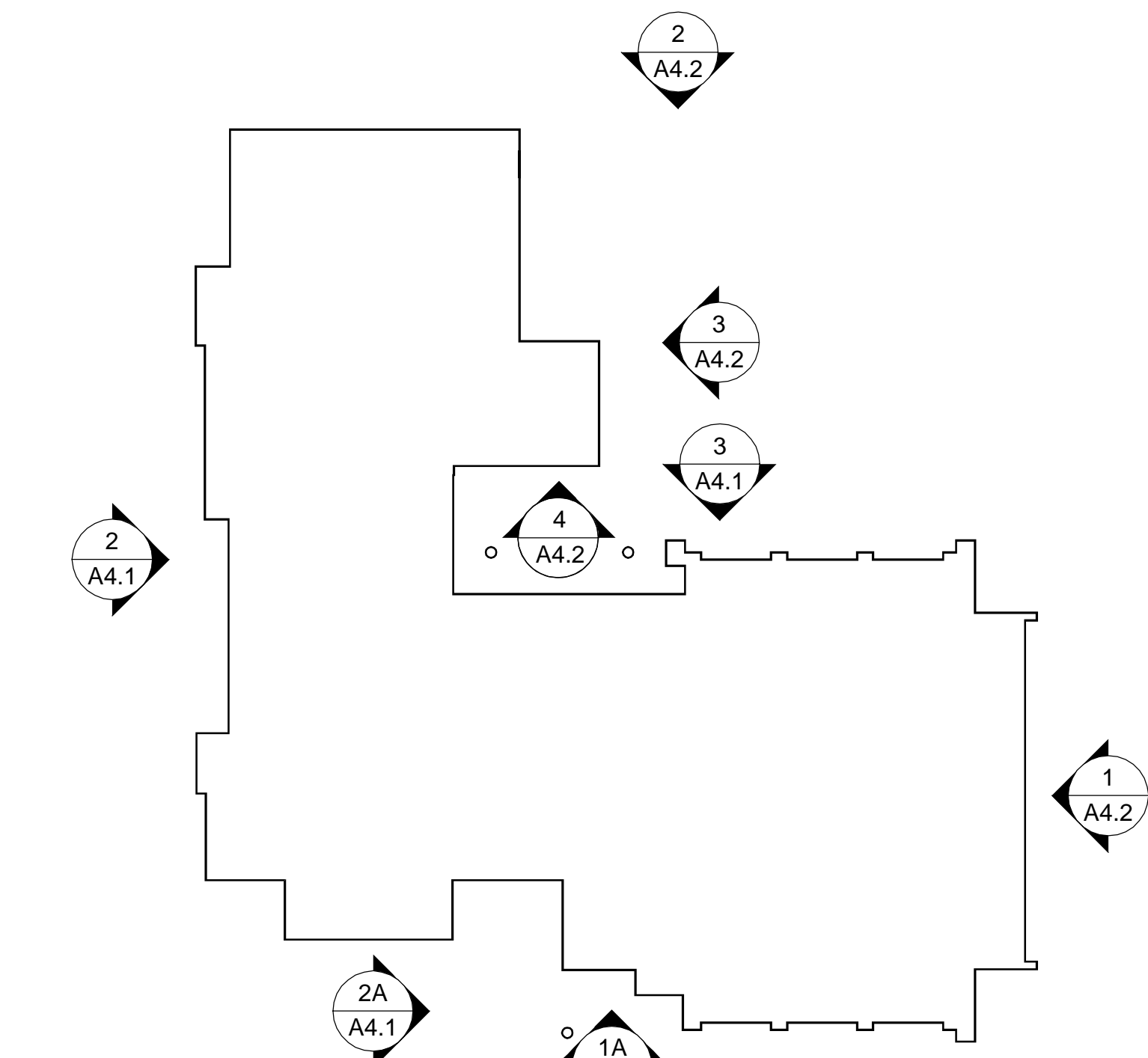
2 SOUTH ELEVATION
A4.1 SCALE: 1/8" = 1'-0"



2A SOUTH ELEVATION
A4.1 SCALE: 1/8" = 1'-0"



3 WEST ELEVATION
A4.1 SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

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MGM Project No. SP-5-21
BDW Project No. 2021-118
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Drawing Title:

EXTERIOR
ELEVATIONS

Sheet No:

A4.1

CONFORMANCE
DOCUMENTS

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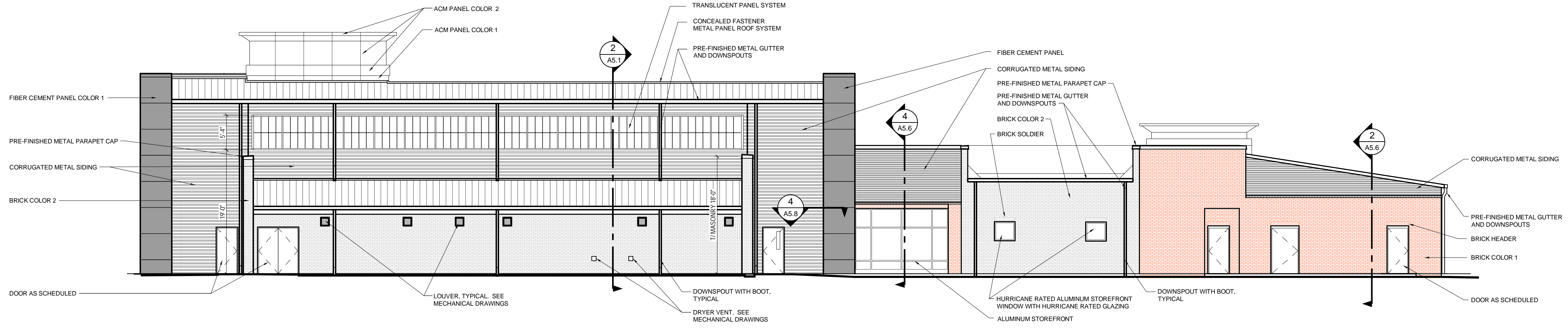
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 BDW Project No. 2021-118
 Drawn By: BDW
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EXTERIOR
 ELEVATIONS

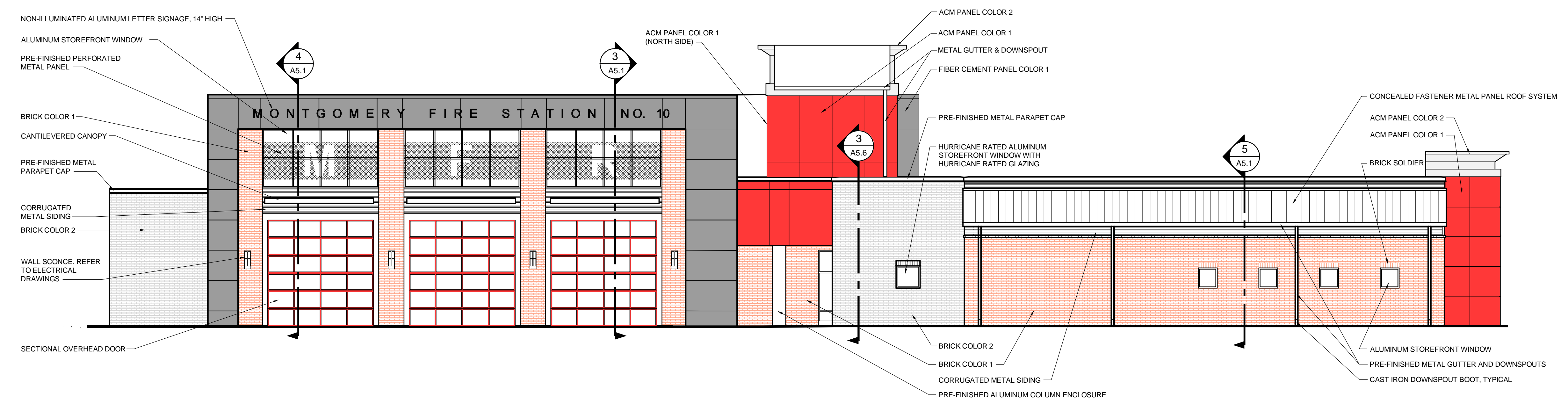
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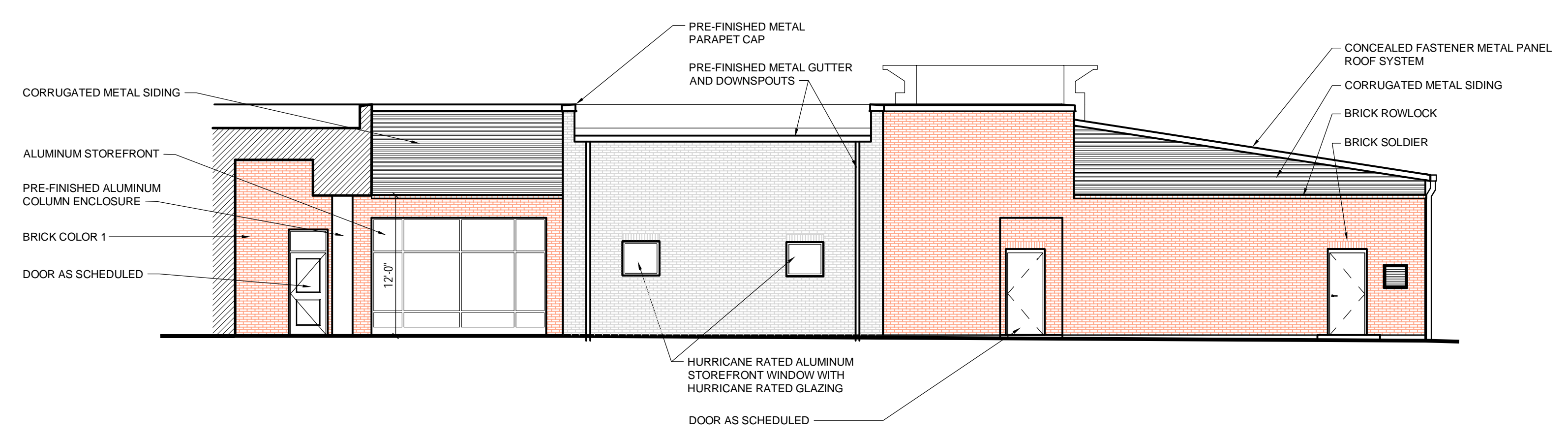
CONFORMANCE
 DOCUMENTS



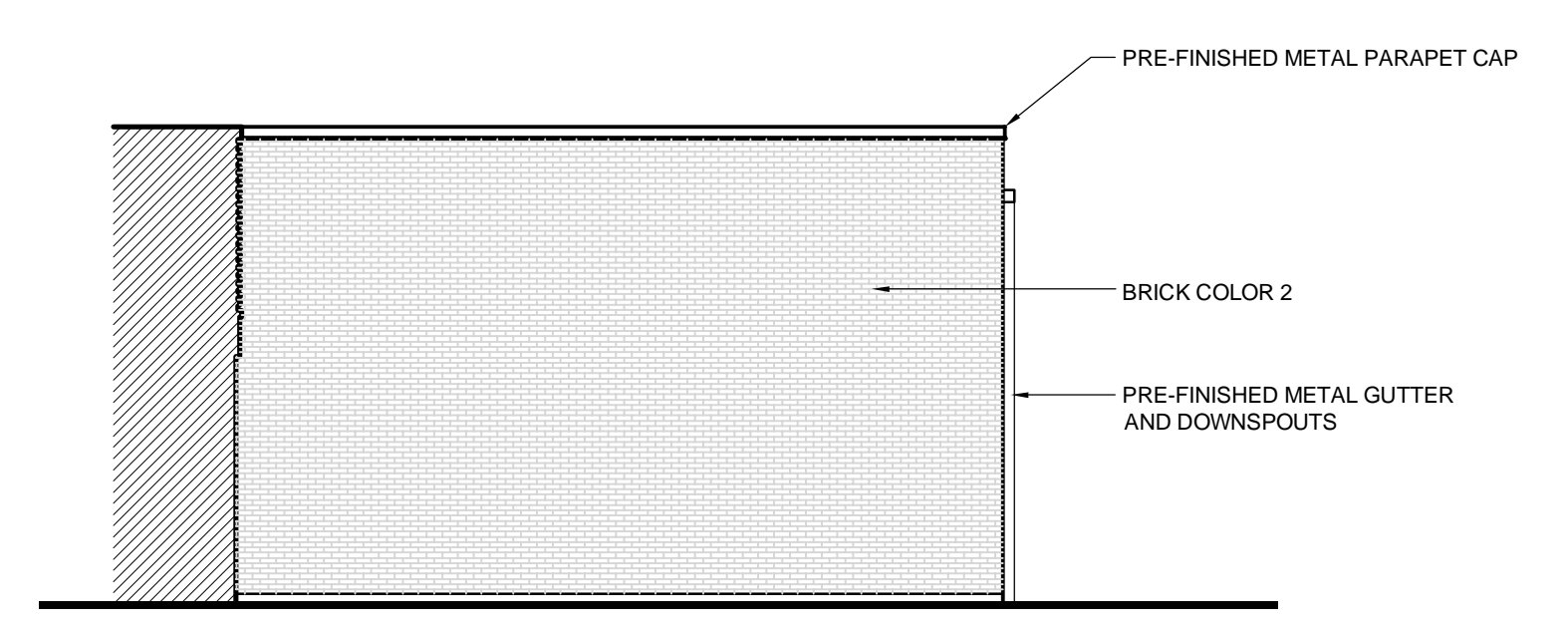
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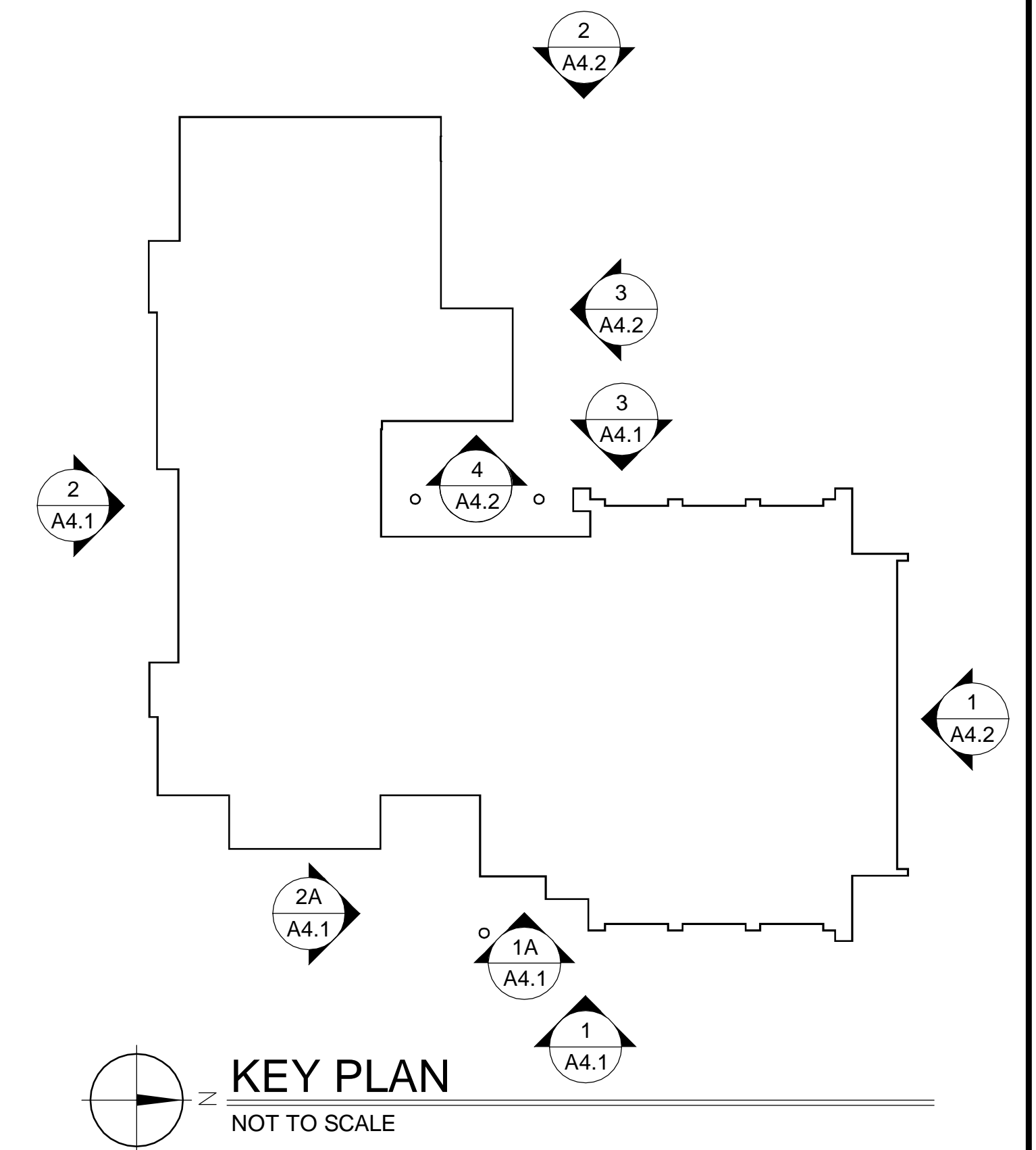
2 WEST ELEVATION
 SCALE: 1/8" = 1'-0"



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



4 EAST ELEVATION
 SCALE: 1/8" = 1'-0"



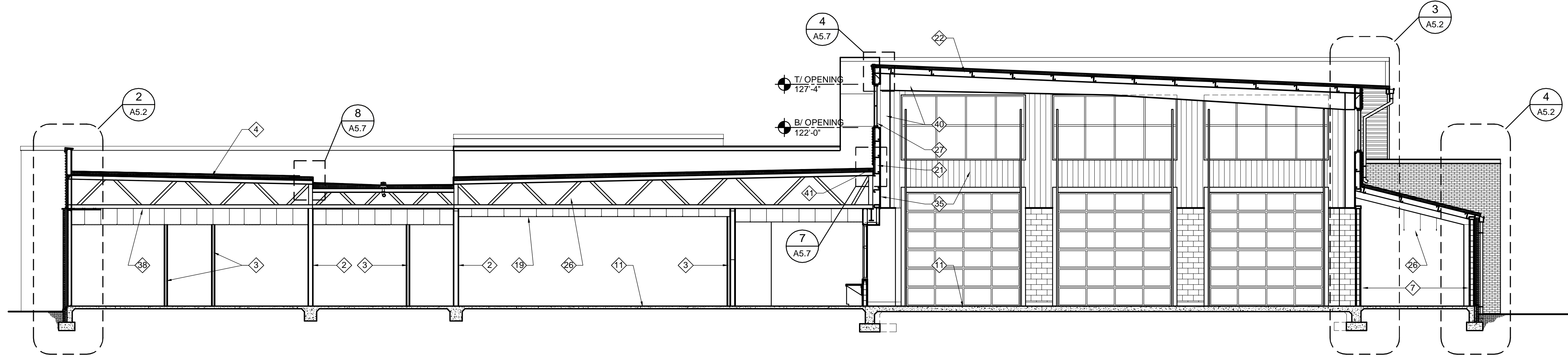
KEY PLAN
 NOT TO SCALE

GENERAL NOTES

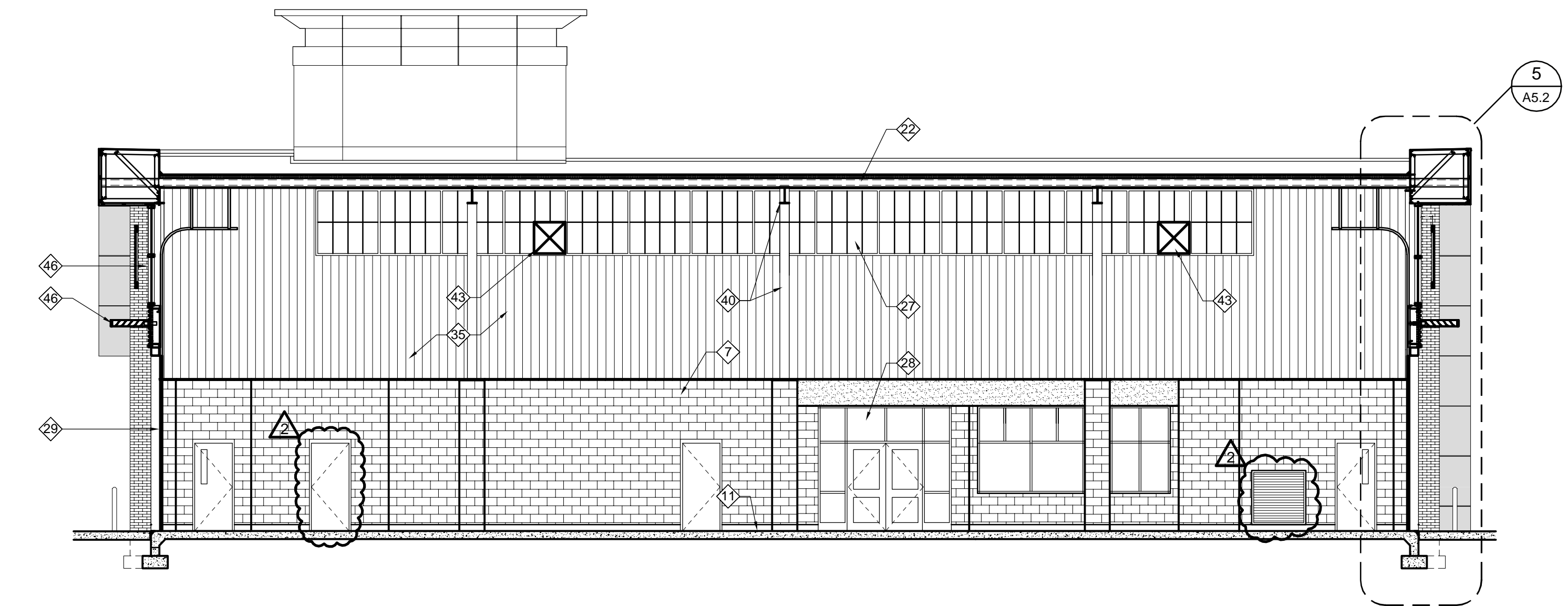
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- REFER TO STRUCTURAL DRAWINGS FOR FRAMING MEMBER SIZING, CONCRETE REINFORCING AND ADDITIONAL INFORMATION.
- COORDINATE FOOTING ELEVATIONS AND FINAL GRADES WITH CIVIL ENGINEERING DRAWINGS.

KEYNOTES

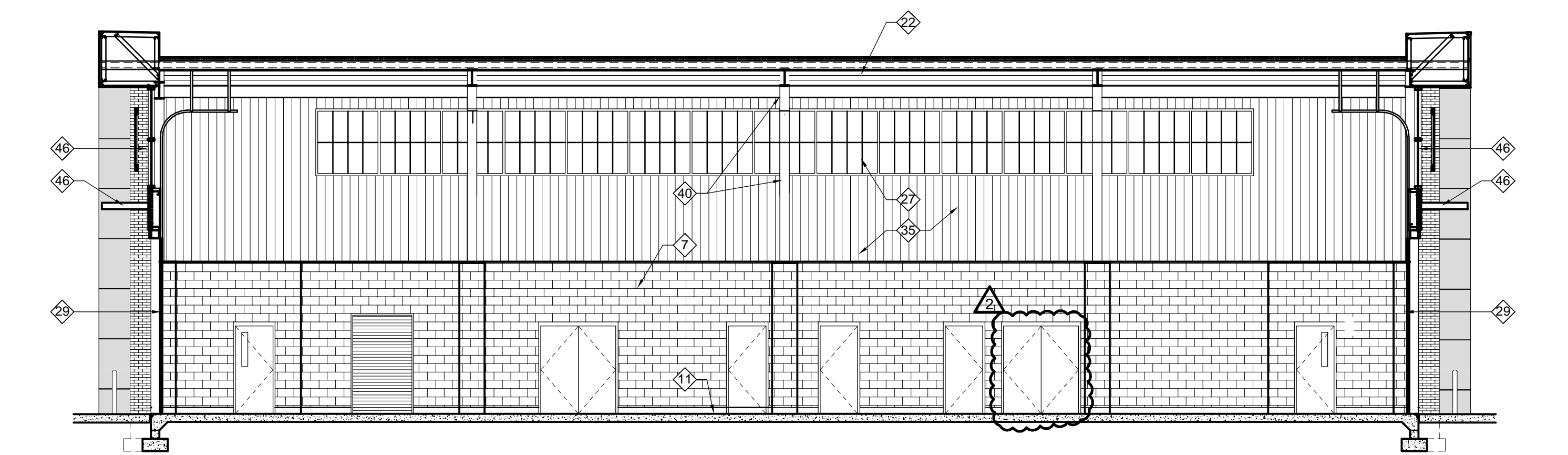
- ALL KEYNOTES ON THIS LIST ARE NOT PRESENT ON EACH DRAWING
- BRICK VENEER. REFER TO SPECIFICATIONS
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 - 1/2" GYPSUM BOARD SHEATHING EACH SIDE OF 3/4" METAL WALL STUD FRAMING AT 16" O.C. TO UNDERSIDE OF SUSPENDED CEILING
 - TPO MEMBRANE ROOFING ON 1/2" DECK BOARD OVER 4" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING, WHERE SHOWN. REFER TO SPECIFICATIONS
 - STANDING SEAM METAL ROOFING ON 1/2" DECK BOARD OVER 4" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING
 - PROVIDE MINIMUM R-19 CLOSED CELL SPAY FOAM INSULATION. REFER TO SPECIFICATIONS
 - CONCRETE BLOCK WALL. PROVIDE INSULATION IN BLOCK CORE AT EXTERIOR LOCATIONS
 - LIQUID APPLIED VAPOR & MOISTURE BARRIER
 - 1/2" RIGID INSULATION BOARD
 - EXTEND ROOFING MEMBRANE OVER 1/2" EXTERIOR GRADE FIRE TREATED PLYWOOD SHEATHING
 - CONCRETE FLOOR SLAB ON COMPACTED GRANULAR FILL. REFER TO STRUCTURAL DRAWINGS. EXTERIOR SLABS SHALL SLOPE AWAY FROM BUILDING FOR DRAINAGE
 - PVC TRIM, PAINTED
 - STEEL BEAM / COLUMN. REFER TO STRUCTURAL DRAWINGS
 - CLOSE OFF OPENINGS OR FILL VOIDS WITH CLOSED CELL SPRAY FOAM INSULATION
 - PRE-FINISHED SHEET METAL GUTTER & DOWNSPOUT
 - GROUT VOIDS SOLID
 - PROVIDE CONTINUOUS PRE-FINISHED METAL FLASHING
 - PROVIDE CONTINUOUS PRE-FINISHED METAL COPING OVER PRESSURE-TREATED WOOD BLOCKING. PROVIDE FLASHING
 - SUSPENDED ACOUSTIC TILE CEILING IN PRE-FINISHED METAL GRID
 - CONTINUOUS BASE FLASHING WITH WEEP HOLES AT 24" O.C. PROVIDE 24" HIGH MORTAR NET AT BOTTOM OF AIR SPACE. BASE FLASHING TO BE TWO BRICK COURSES BELOW FINISH FLOOR
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 - METAL ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS
 - TRANSLUCENT PANEL SYSTEM. REFER TO SPECIFICATIONS
 - GLASS & ALUMINUM STOREFRONT SYSTEM. REFER TO SPECIFICATIONS
 - MOTOR OPERATED PRE-FINISHED OVERHEAD SECTIONAL METAL DOOR AND TRACK. REFER TO DOOR SCHEDULE & SPECIFICATIONS
 - ALUMINUM PANEL CLADDING SYSTEM. REFER TO SPECIFICATIONS
 - 6" x 36" D PRE-FINISHED ALUMINUM LOUVERED ECOSHADE AWNING WITH SIX 35" BLADES BY MASA ARCHITECTURAL CANOPIES (www.architecturalcanopies.com) OR APPROVED EQUAL
 - 42" HIGH x 6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. REFER TO DETAIL 1/A5.5
 - CONCRETE PAVEMENT. SEE CIVIL ENGINEERING DRAWINGS
 - PROVIDE CAST IRON DOWNSPOUT BOOT AND CONNECT TO UNDERGROUND STORM WATER COLLECTION SYSTEM. SEE CIVIL ENGINEERING DRAWINGS
 - PRE-FINISHED METAL LINER PANEL. SEE SPECIFICATIONS
 - FIBER CEMENT BOARD CLADDING SYSTEM OVER 1/2" FIRE TREATED PLYWOOD WITH METAL FRAMING AT 16" O.C. REFER TO SPECIFICATIONS
 - PRE-FINISHED VENTED METAL SOFFIT PANEL
 - TOP OF RETURN AIR PLENUM: 1/2" GYPSUM BOARD ON METAL CHANNELS
 - EMBEDDED STEEL ANGLE
 - PRE-ENGINEERED RIGID STEEL FRAME. REFER TO STRUCTURAL DRAWINGS
 - PROVIDE EXPANSION JOINT
 - 1/2" FIRE TREATED PLYWOOD SHEATHING ON LIGHT GAUGE METAL FRAMING. REFER TO STRUCTURAL DRAWINGS
 - HVAC DUCTWORK FROM ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS
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 - 60" HIGH PRE-FINISHED ALUMINUM PERFORATED 0.040" PANEL, BR5-36 1/2" ECONOLAP BY CENTRIA, WITH APPLIED LETTERING ON 2 1/2" ANODIZED ALUMINUM TUBES WITH INTERMEDIATE VERTICALS TO ALIGN WITH WINDOW FRAME. SEE BUILDING ELEVATIONS
 - 8" x 8" RECESS. SEE BUILDING ELEVATIONS
 - DIAGONAL BRACE. SEE STRUCTURAL DRAWINGS
 - COMPRESSIBLE EXPANSION MATERIAL
 - PRE-FINISHED ALUMINUM COLUMN COVER
 - EXTEND ROOF PURLIN. SEE STRUCTURAL DRAWINGS
 - PRE-FINISHED METAL TRIM. AXIOM CLASSIC TRIM BY ARMSTRONG OR APPROVED EQUAL
 - PROVIDE ICE & WATER SHIELD MEMBRANE ON HORIZONTAL AREAS. EXTEND MEMBRANE MINIMUM 6" ON ADJOINING VERTICAL SURFACES.
 - X-BRACING. SEE STRUCTURAL DRAWINGS
 - SOLID SURFACE SILL AND APRON
 - 3" x 1/2" PVC BLOCKING AT SCREW DOWN LOCATIONS. DO NOT CAULK STOREFRONT TO ROOF MEMBRANE. ALLOW STORMWATER TO FLOW UNDER STOREFRONT
 - BREAK METAL TRIM (MATCH STOREFRONT) OVER WOOD BLOCKING



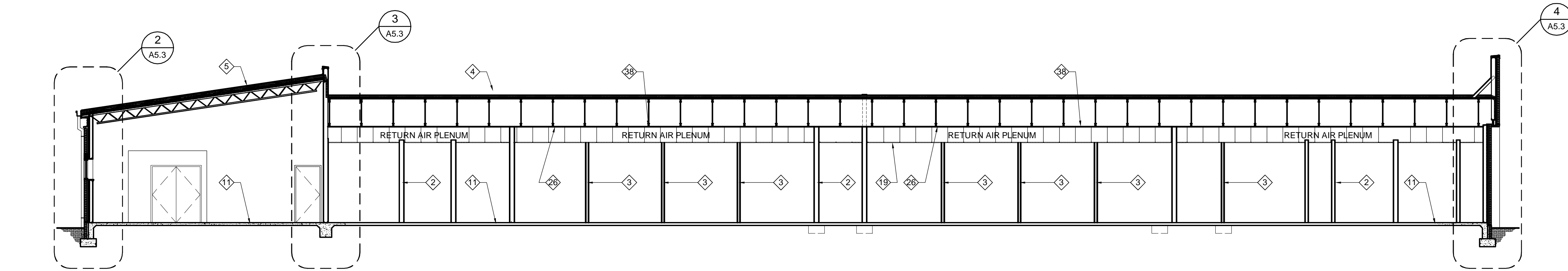
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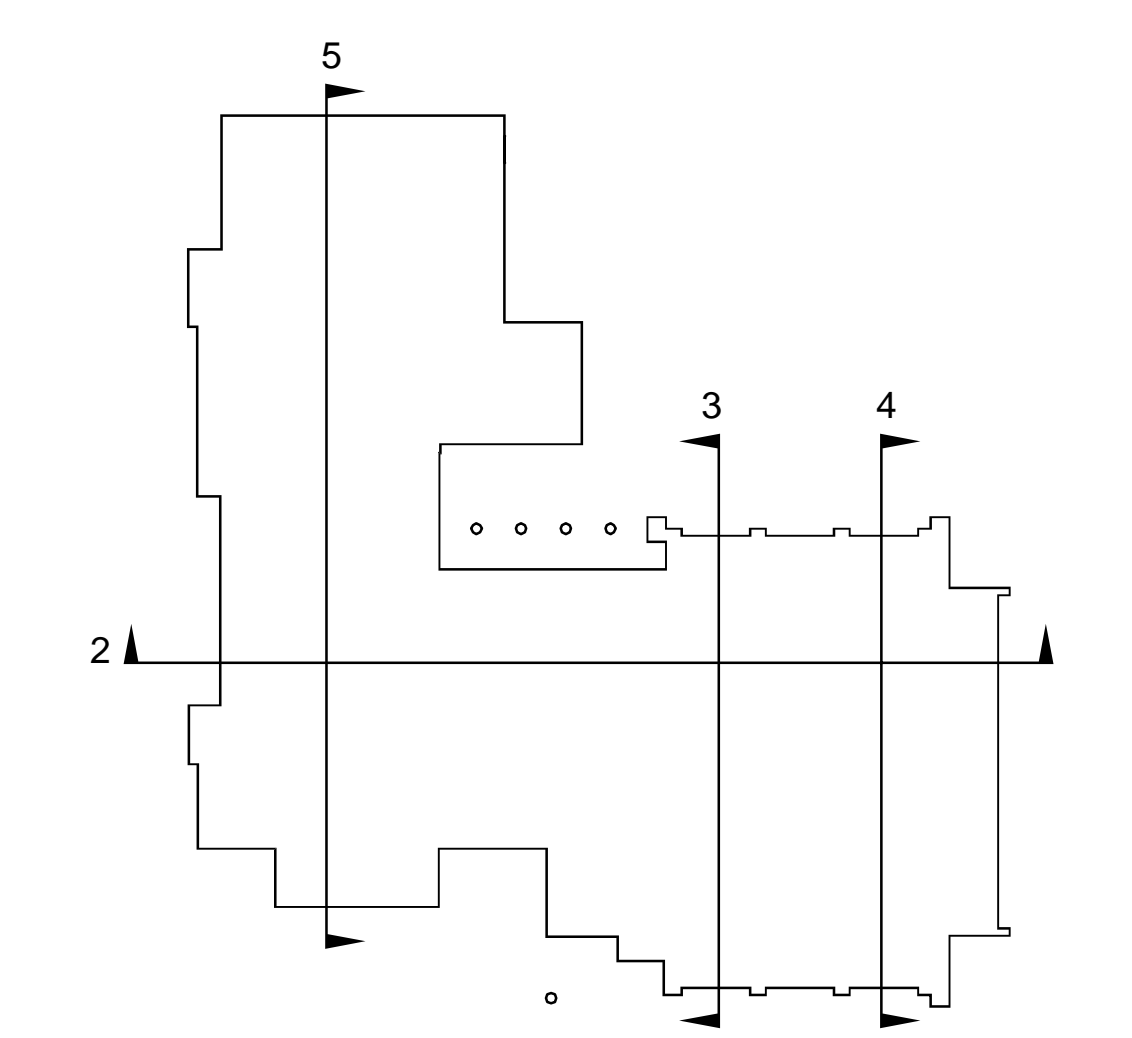
BUILDING SECTION
3
A5.1 SCALE: 1/8" = 1'-0"



BUILDING SECTION
4
A5.1 SCALE: 1/8" = 1'-0"



BUILDING SECTION
5
A5.1 SCALE: 1/8" = 1'-0"



KEY PLAN
1
A5.1 SCALE: 1/32" = 1'-0"

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MGM Project No. SP-5-21
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BUILDING SECTIONS

Sheet No:

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CONFORMANCE DOCUMENTS

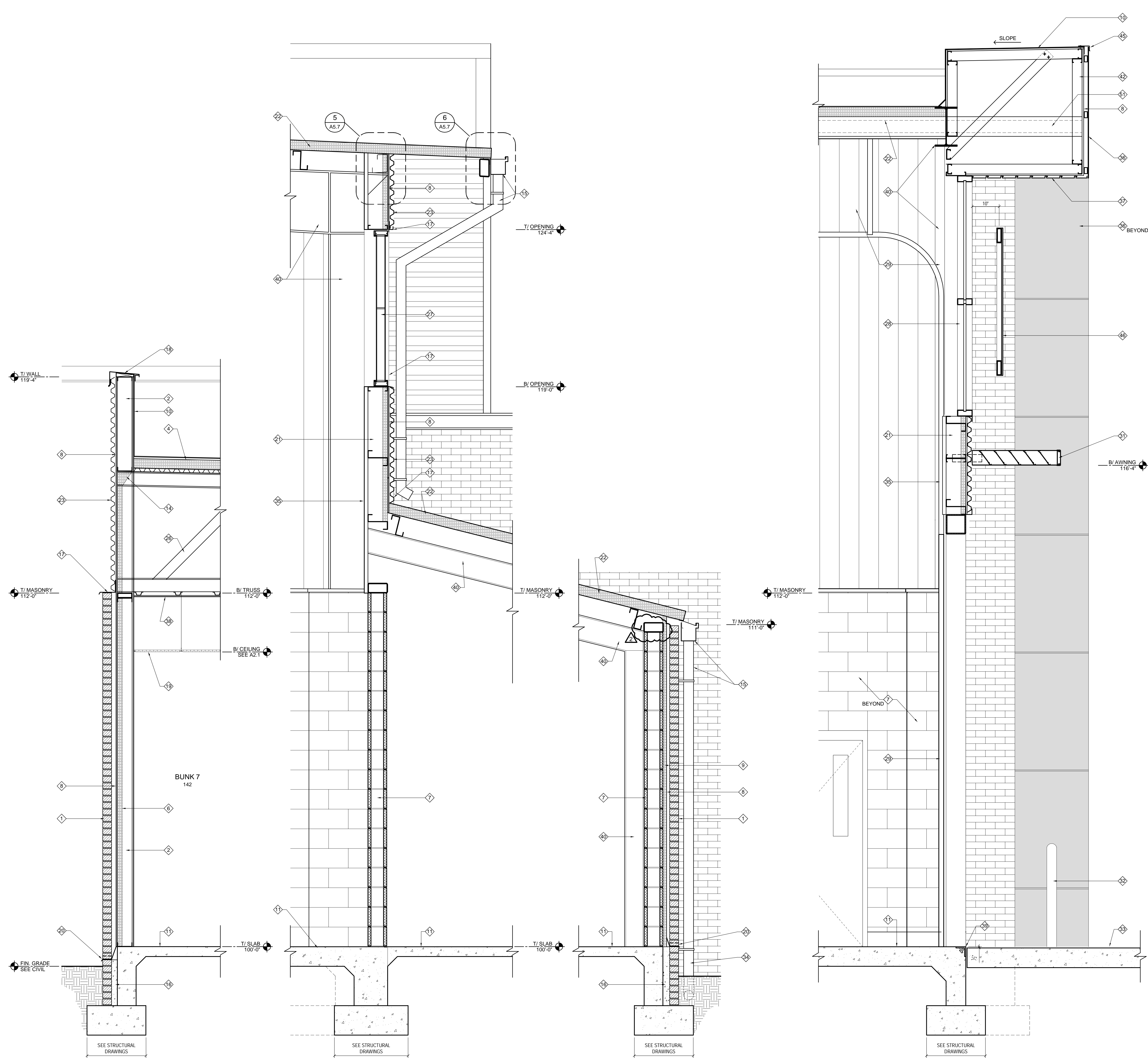
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KEYNOTES

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- TPO MEMBRANE ROOFING ON 1/2" DECK BOARD OVER 44" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING, WHERE SHOWN. REFER TO SPECIFICATIONS
- STANDING SEAM METAL ROOFING ON 1/2" DECK BOARD OVER 44" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING
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- PVC TRIM, PAINTED
- STEEL BEAM / COLUMN. REFER TO STRUCTURAL DRAWINGS
- CLOSE OFF OPENINGS OR FILL VOIDS WITH CLOSED CELL SPRAY FOAM INSULATION
- PRE-FINISHED SHEET METAL GUTTER & DOWNSPOUT
- GROUT VOIDS SOLID
- PROVIDE CONTINUOUS PRE-FINISHED METAL FLASHING
- PROVIDE CONTINUOUS PRE-FINISHED METAL COPING OVER PRESSURE-TREATED WOOD BLOCKING. PROVIDE FLASHING
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- PRE-FINISHED METAL LINER PANEL. SEE SPECIFICATIONS
- PRE-FINISHED VENTED METAL SOFFIT PANEL
- TOP OF RETURN AIR PLENUM: 1/2" GYPSUM BOARD ON METAL CHANNELS
- EMBEDDED STEEL ANGLE
- PRE-ENGINEERED RIGID STEEL FRAME. REFER TO STRUCTURAL DRAWINGS
- PROVIDE EXPANSION JOINT
- 1/2" FIRE TREATED PLYWOOD SHEATHING ON LIGHT GAUGE METAL FRAMING. REFER TO STRUCTURAL DRAWINGS
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- X-BRACING. SEE STRUCTURAL DRAWINGS
- SOLID SURFACE SILL AND APRON
- 3" x 1" PVC BLOCKING AT SCREW DOWN LOCATIONS. DO NOT CAULK. STOREFRONT TO ROOF MEMBRANE. ALLOW STORMWATER TO FLOW UNDER STOREFRONT
- BREAK METAL TRIM (MATCH STOREFRONT) OVER WOOD BLOCKING



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

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

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

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

1 KEY PLAN
SCALE: 1/32" = 1'-0"

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

WALL SECTIONS

Sheet No:

A5.2

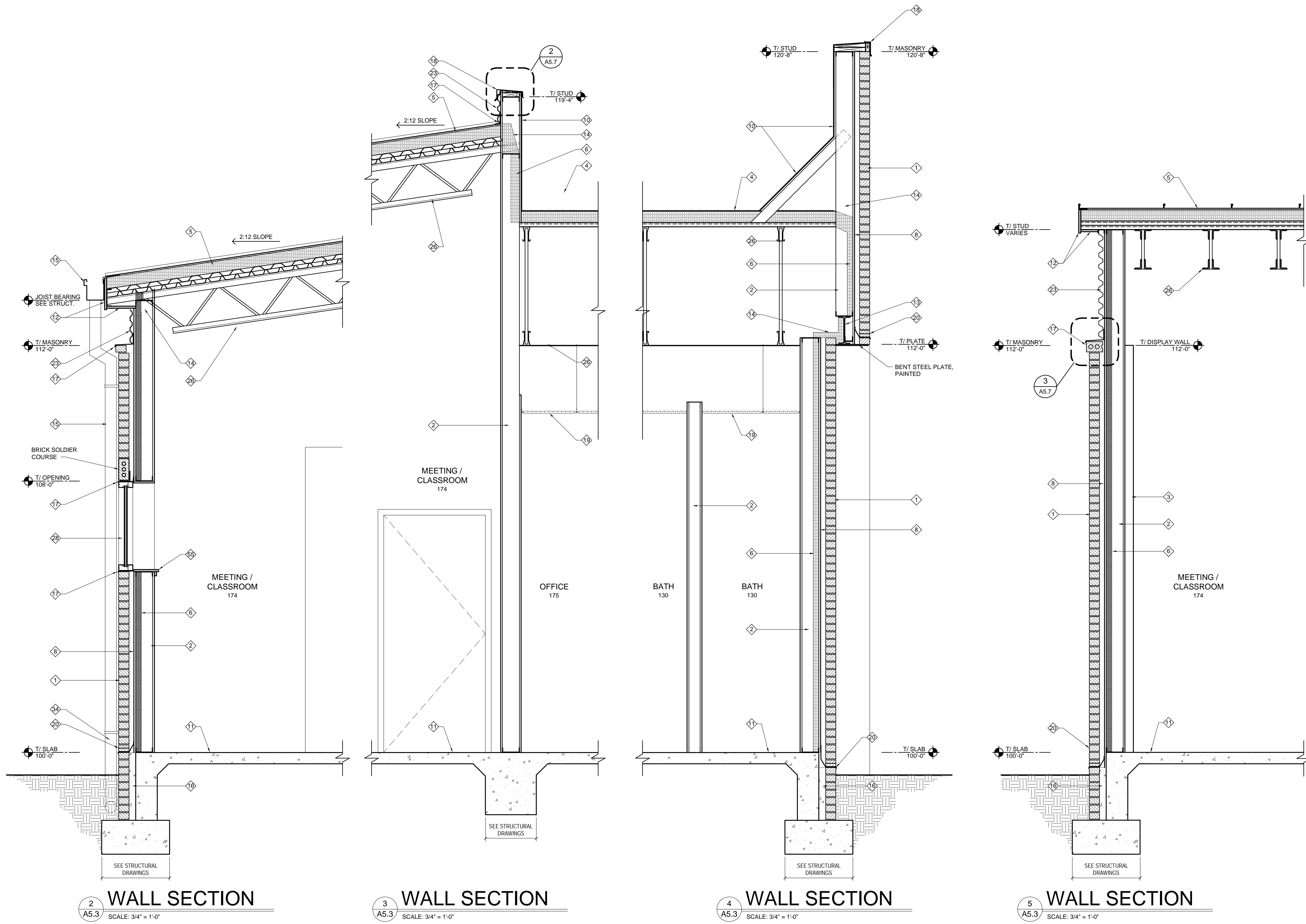
CONFORMANCE DOCUMENTS

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- REFER TO STRUCTURAL DRAWINGS FOR FRAMING MEMBER SIZING, CONCRETE REINFORCING AND ADDITIONAL INFORMATION.
- COORDINATE FOOTING ELEVATIONS AND FINAL GRADES WITH CIVIL ENGINEERING DRAWINGS

KEYNOTES

- ALL KEYNOTES ON THIS LIST ARE NOT PRESENT ON EACH DRAWING
- BRICK VENEER. REFER TO SPECIFICATIONS
 - 1/2" GYPSUM BOARD ON METAL WALL STUD FRAMING AT 16" O.C. WITH 1/2" EXTERIOR FIRE TREATED PLYWOOD SHEATHING. REFER TO FLOOR PLANS FOR FRAMING SIZING
 - 1/2" GYPSUM BOARD SHEATHING EACH SIDE OF 3/4" METAL WALL STUD FRAMING AT 16" O.C. TO UNDERSIDE OF SUSPENDED CEILING
 - TPO MEMBRANE ROOFING ON 1/2" DECK BOARD OVER 4" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING, WHERE SHOWN. REFER TO SPECIFICATIONS
 - STANDING SEAM METAL ROOFING ON 1/2" DECK BOARD OVER 4" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING
 - PROVIDE MINIMUM R-19 CLOSED CELL SPAY FOAM INSULATION. REFER TO SPECIFICATIONS
 - CONCRETE BLOCK WALL. PROVIDE INSULATION IN BLOCK CORE AT EXTERIOR LOCATIONS
 - LIQUID APPLIED VAPOR & MOISTURE BARRIER
 - 1/2" RIGID INSULATION BOARD
 - EXTEND ROOFING MEMBRANE OVER 1/2" EXTERIOR GRADE FIRE TREATED PLYWOOD SHEATHING
 - CONCRETE FLOOR SLAB ON COMPACTED GRANULAR FILL. REFER TO STRUCTURAL DRAWINGS. EXTERIOR SLABS SHALL SLOPE AWAY FROM BUILDING FOR DRAINAGE
 - PVC TRIM, PAINTED
 - STEEL BEAM / COLUMN. REFER TO STRUCTURAL DRAWINGS
 - CLOSE OFF OPENINGS OR FILL VOIDS WITH CLOSED CELL SPRAY FOAM INSULATION
 - PRE-FINISHED SHEET METAL GUTTER & DOWNSPOUT
 - GROUT VOIDS SOLID
 - PROVIDE CONTINUOUS PRE-FINISHED METAL FLASHING
 - PROVIDE CONTINUOUS PRE-FINISHED METAL COPING OVER PRESSURE-TREATED WOOD BLOCKING. PROVIDE FLASHING
 - SUSPENDED ACOUSTIC TILE CEILING IN PRE-FINISHED METAL GRID
 - CONTINUOUS BASE FLASHING WITH WEEP HOLES AT 24" O.C. PROVIDE 24" HIGH MORTAR NET AT BOTTOM OF AIR SPACE. BASE FLASHING TO BE TWO BRICK COURSES BELOW FINISH FLOOR
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 - MOTOR OPERATED PRE-FINISHED OVERHEAD SECTIONAL METAL DOOR AND TRACK. REFER TO DOOR SCHEDULE & SPECIFICATIONS
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 - 6" x 36" D PRE-FINISHED ALUMINUM LOUVERED ECOSHADE AWNING WITH SIX 3/8" BLADES BY MASA ARCHITECTURAL CANOPIES (www.architecturalcanopies.com) OR APPROVED EQUAL
 - 42" HIGH x 6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. REFER TO DETAIL 1/A5.5
 - CONCRETE PAVEMENT. SEE CIVIL ENGINEERING DRAWINGS
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	2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

WALL SECTIONS

Sheet No:

A5.3

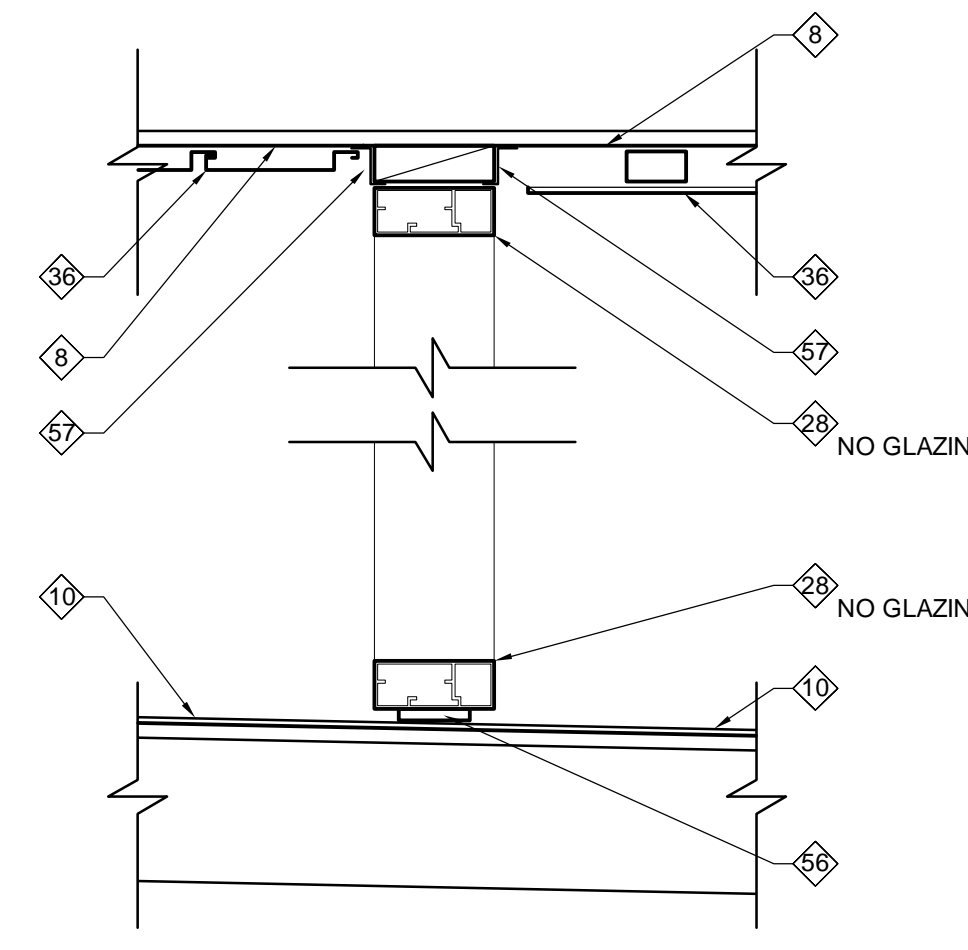
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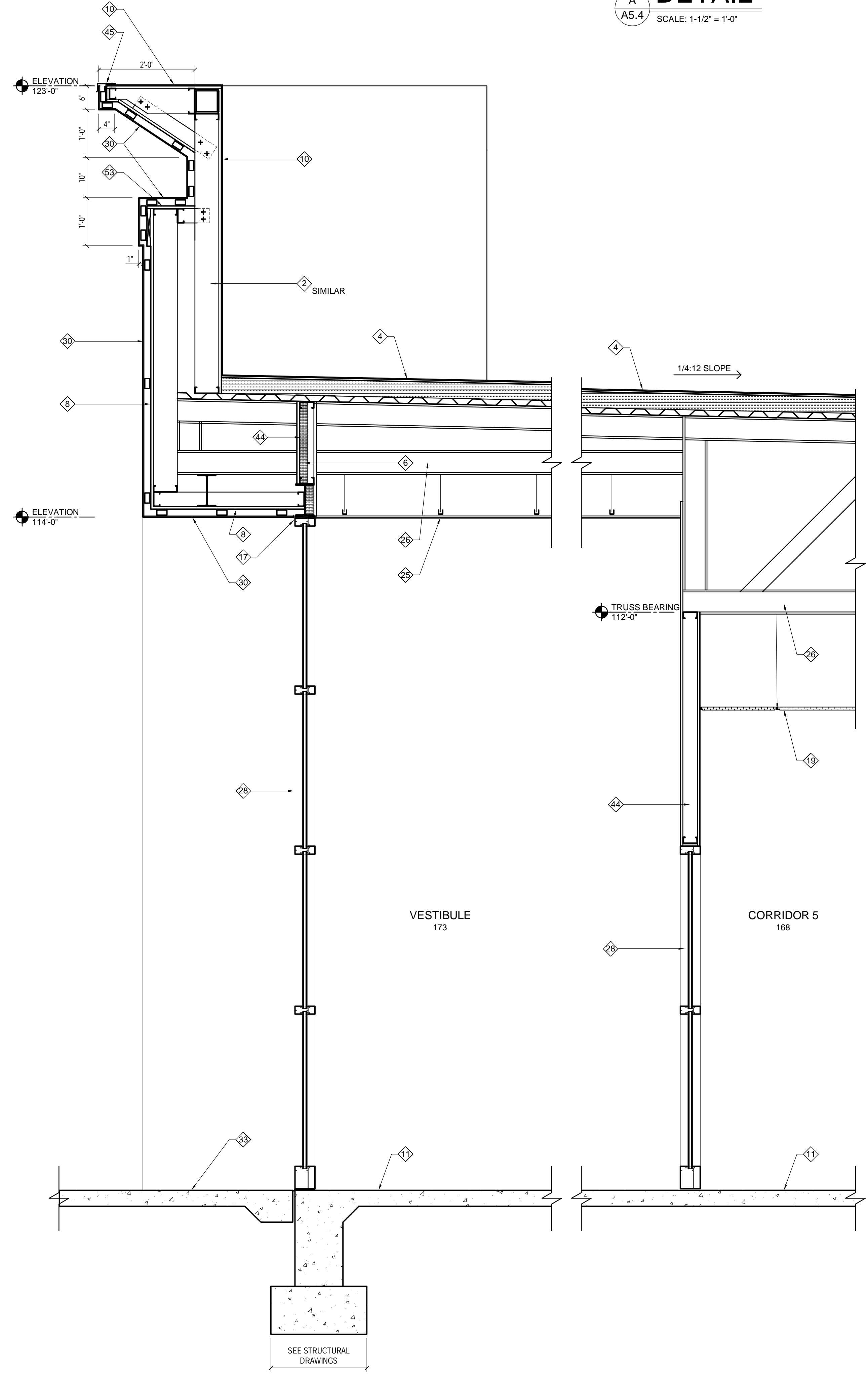
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KEYNOTES

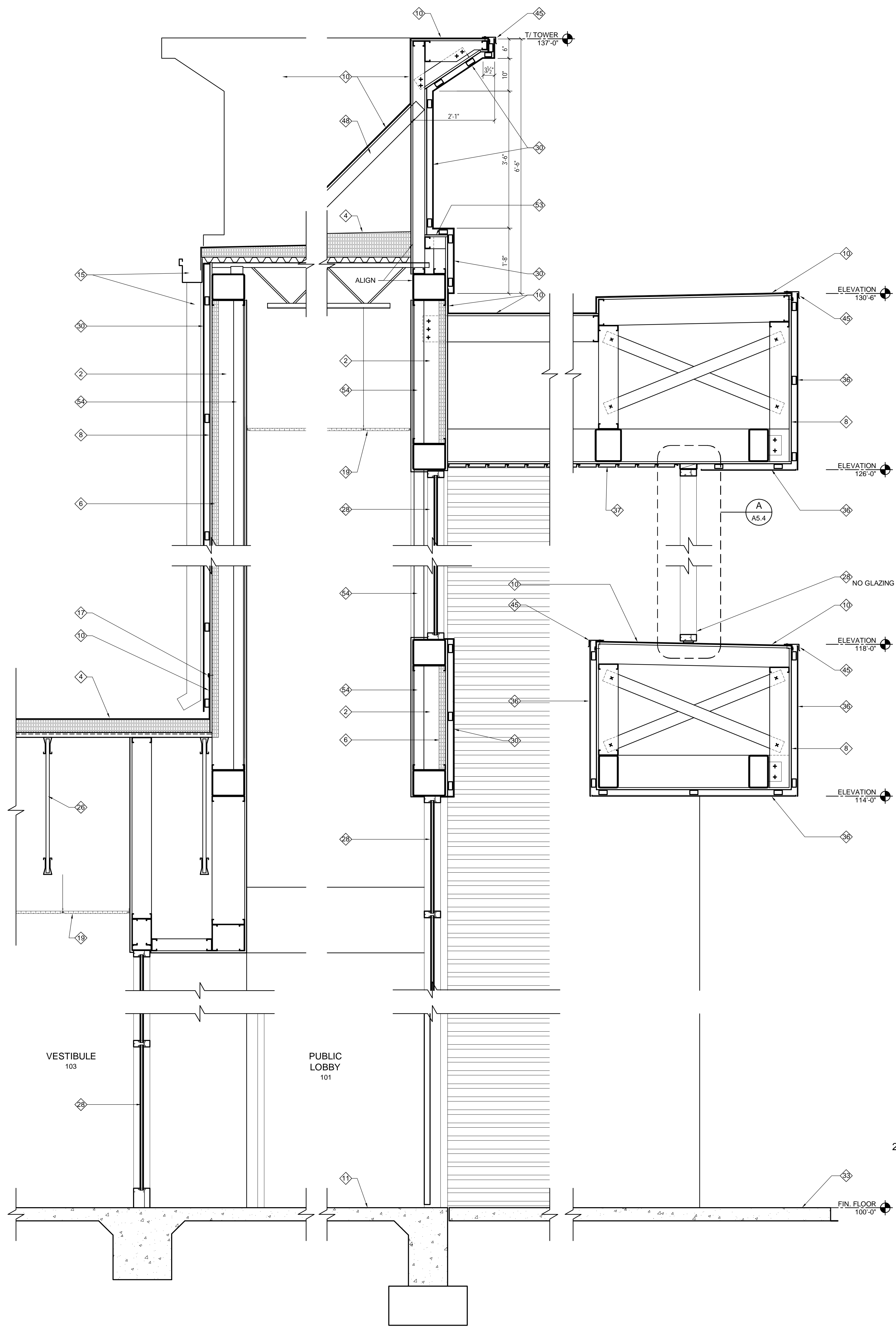
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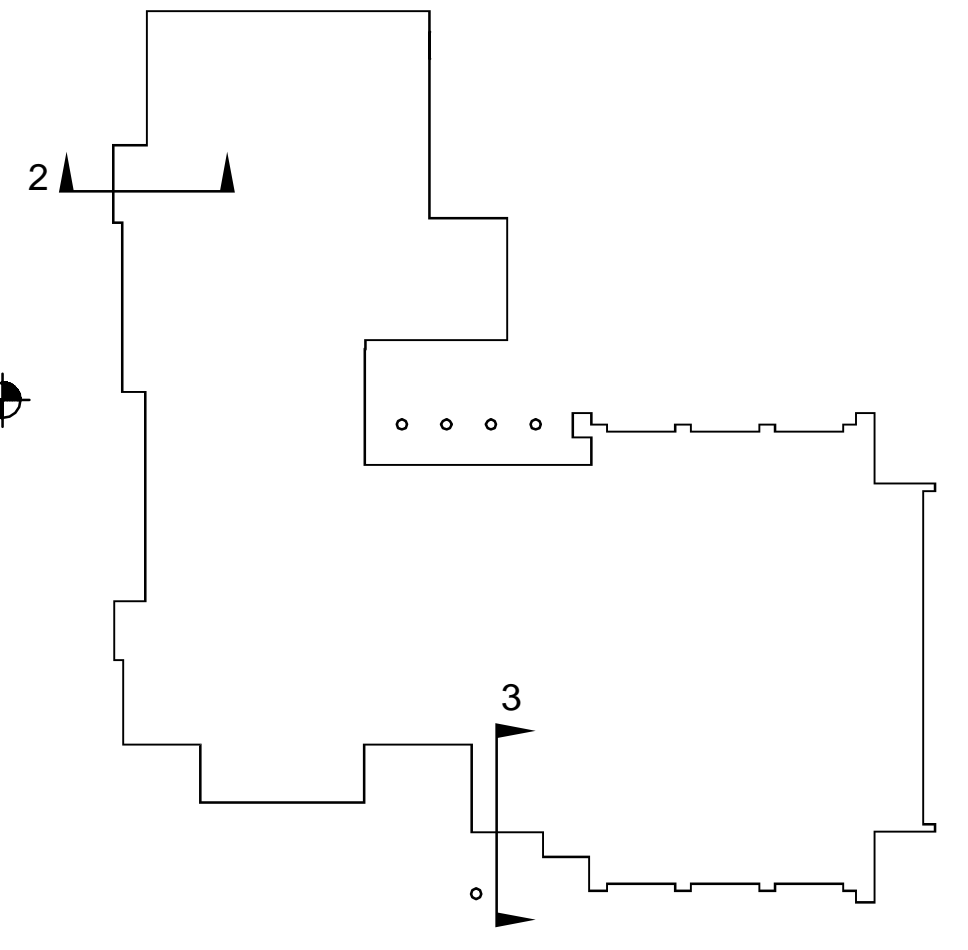
DETAIL
A5.4
SCALE: 1:1/2" = 1'-0"



WALL SECTION
2
A5.4
SCALE: 3/4" = 1'-0"



WALL SECTION
3
A5.4
SCALE: 3/4" = 1'-0"



KEY PLAN
1
A5.4
SCALE: 1/32" = 1'-0"

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

WALL SECTIONS

Sheet No:

A5.4

CONFORMANCE DOCUMENTS

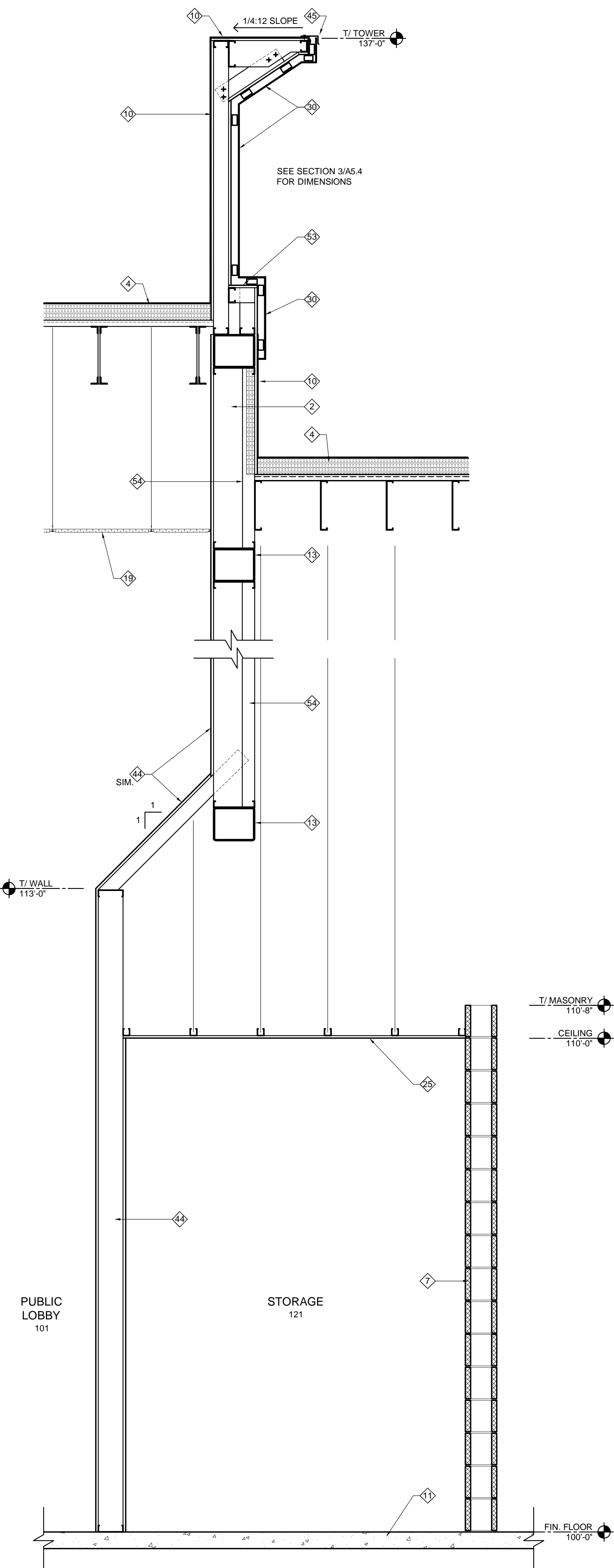
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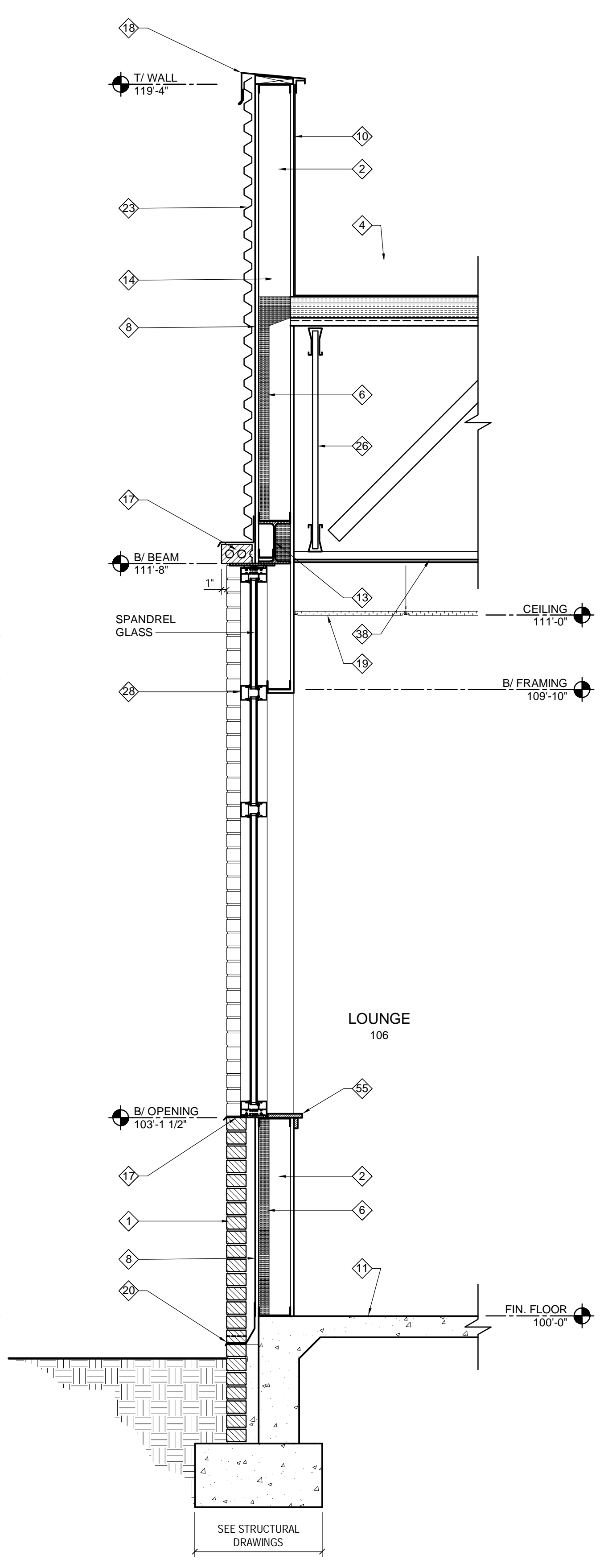
KEYNOTES

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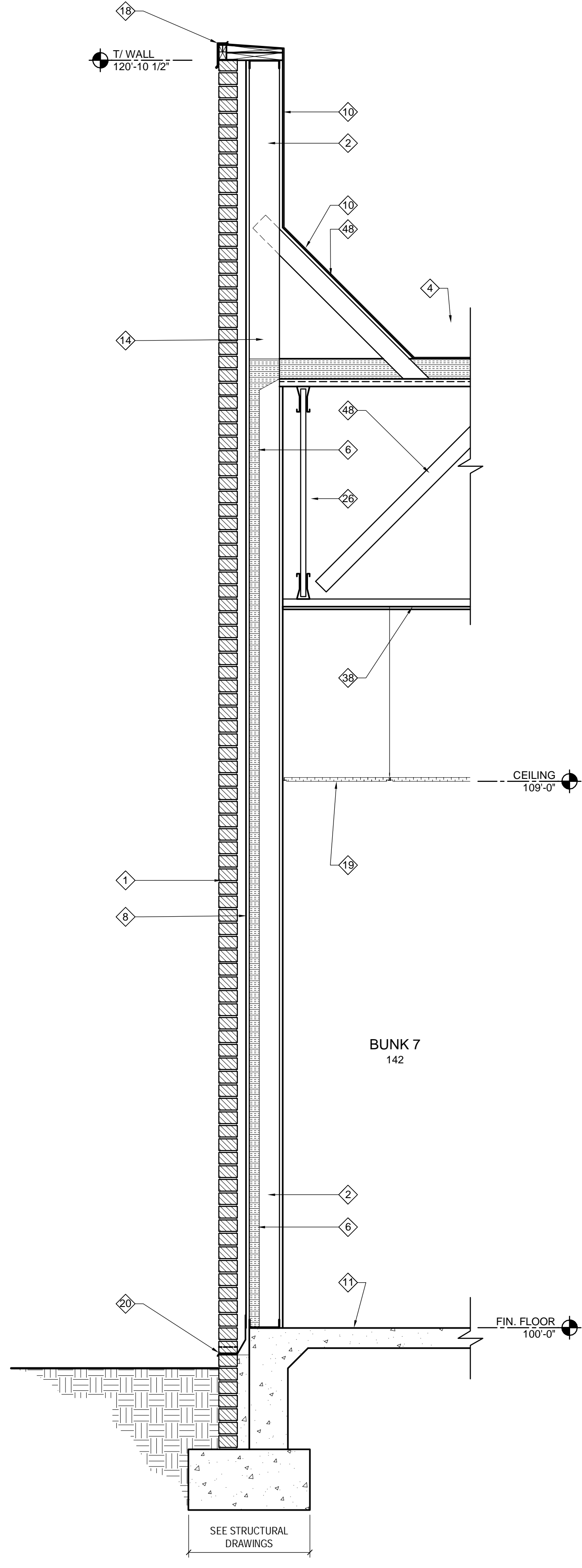
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16. GROUT VOIDS SOLID
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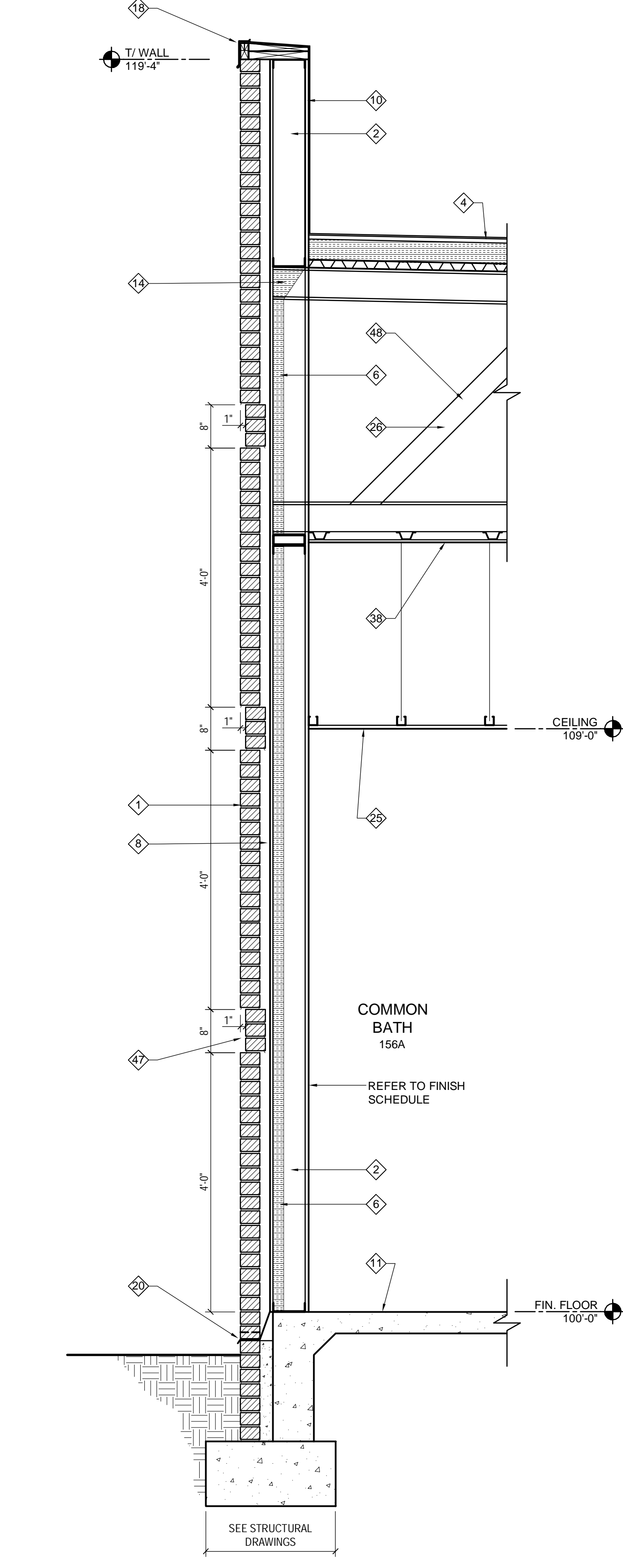
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SCALE: 3/4" = 1'-0"



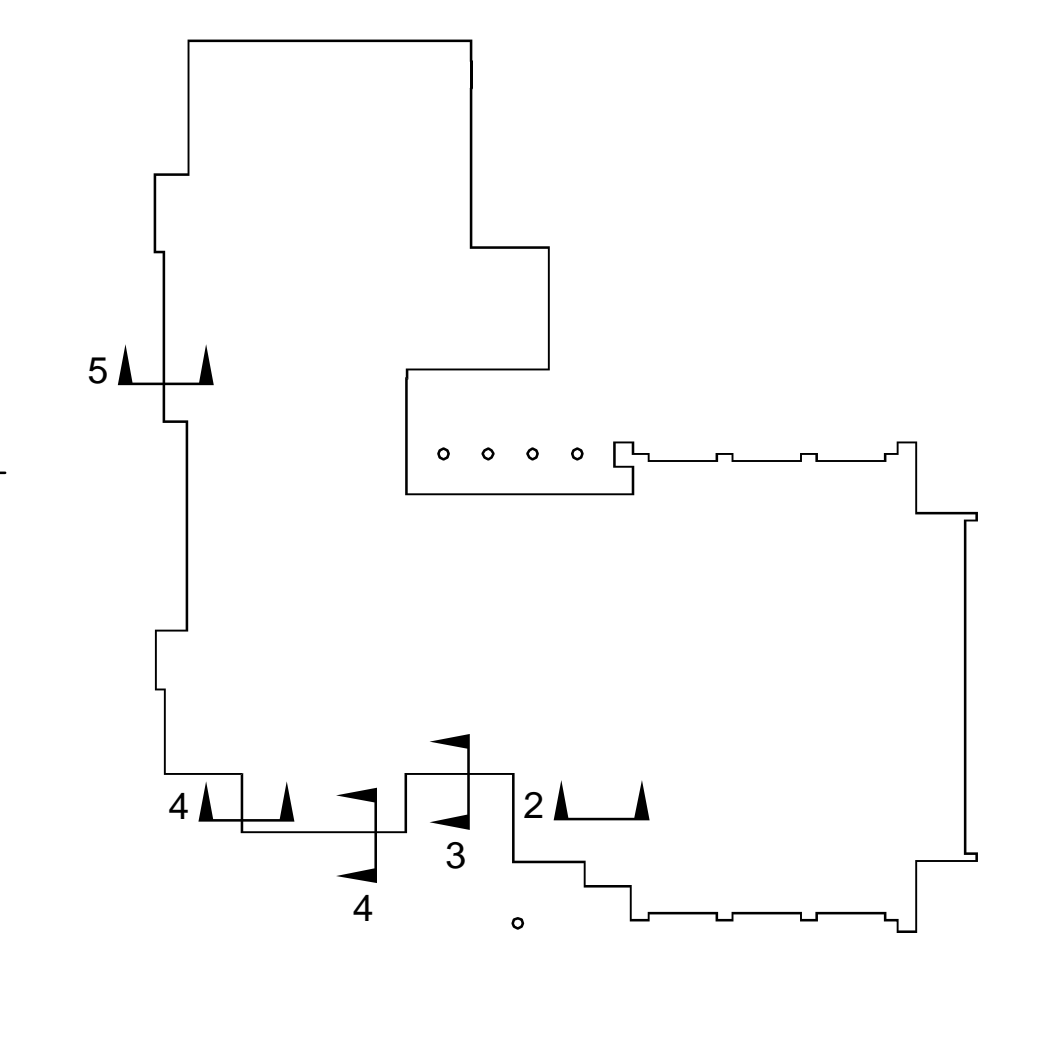
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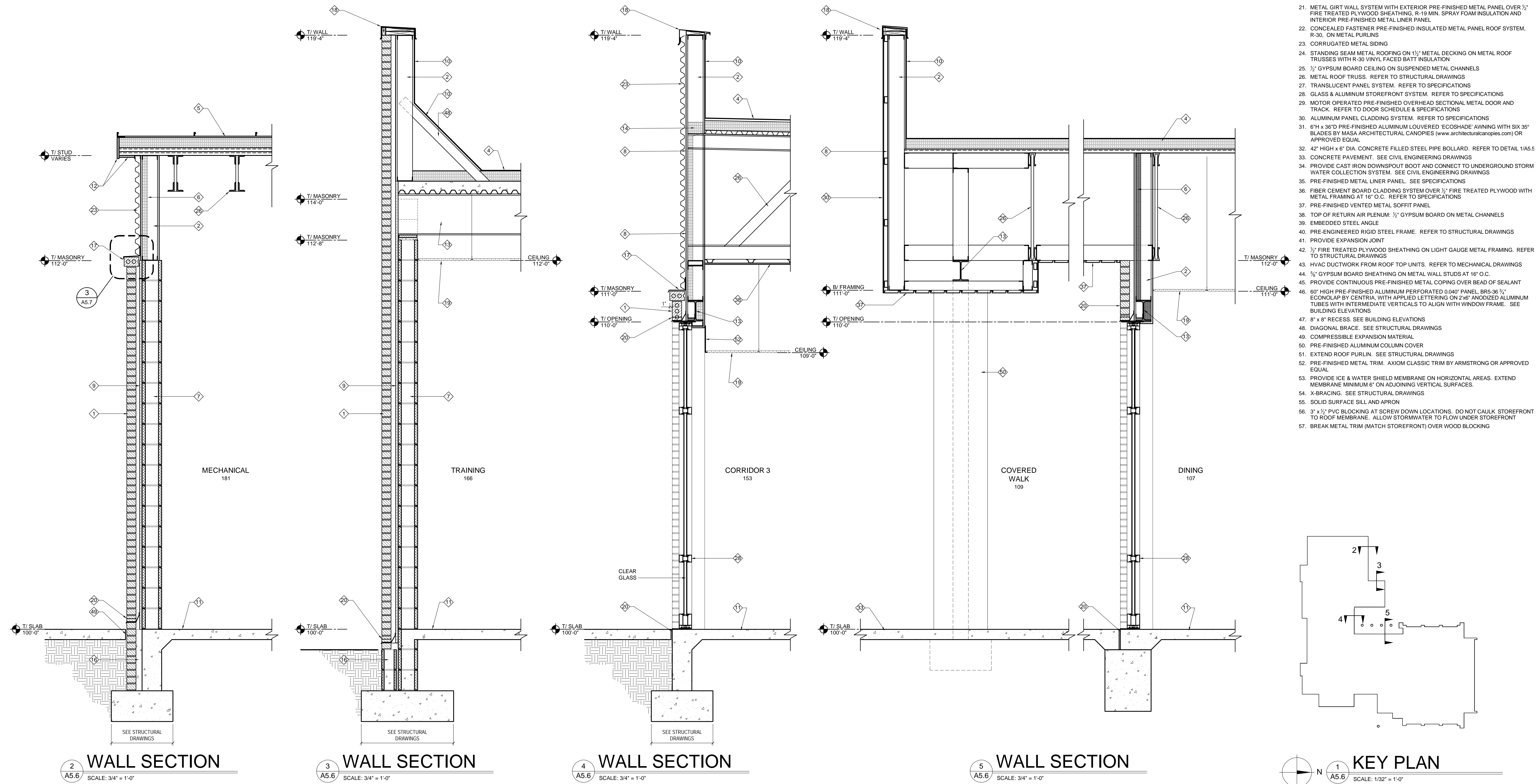
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 - STANDING SEAM METAL ROOFING ON 1/2" DECK BOARD OVER 4" (R-30) RIGID INSULATION BOARD ON METAL ROOF DECKING
 - PROVIDE MINIMUM R-19 CLOSED CELL SPAY FOAM INSULATION. REFER TO SPECIFICATIONS
 - CONCRETE BLOCK WALL. PROVIDE INSULATION IN BLOCK CORE AT EXTERIOR LOCATIONS
 - LIQUID APPLIED VAPOR & MOISTURE BARRIER
 - 1/2" RIGID INSULATION BOARD
 - EXTEND ROOFING MEMBRANE OVER 1/2" EXTERIOR GRADE FIRE TREATED PLYWOOD SHEATHING
 - CONCRETE FLOOR SLAB ON COMPACTED GRANULAR FILL. REFER TO STRUCTURAL DRAWINGS. EXTERIOR SLABS SHALL SLOPE AWAY FROM BUILDING FOR DRAINAGE
 - PVC TRIM, PAINTED
 - STEEL BEAM / COLUMN. REFER TO STRUCTURAL DRAWINGS
 - CLOSE OFF OPENINGS OR FILL VOIDS WITH CLOSED CELL SPAY FOAM INSULATION
 - PRE-FINISHED SHEET METAL GUTTER & DOWNSPOUT
 - GROUT VOIDS SOLID
 - PROVIDE CONTINUOUS PRE-FINISHED METAL FLASHING
 - PROVIDE CONTINUOUS PRE-FINISHED METAL COPING OVER PRESSURE-TREATED WOOD BLOCKING. PROVIDE FLASHING
 - SUSPENDED ACOUSTIC TILE CEILING IN PRE-FINISHED METAL GRID
 - CONTINUOUS BASE FLASHING WITH WEEP HOLES AT 24" O.C. PROVIDE 24" HIGH MORTAR NET AT BOTTOM OF AIR SPACE. BASE FLASHING TO BE TWO BRICK COURSES BELOW FINISH FLOOR
 - METAL GIRT WALL SYSTEM WITH EXTERIOR PRE-FINISHED METAL PANEL OVER 1/2" FIRE TREATED PLYWOOD SHEATHING, R-19 MIN. SPAY FOAM INSULATION AND INTERIOR PRE-FINISHED METAL LINER PANEL
 - CONCEALED FASTENER PRE-FINISHED INSULATED METAL PANEL ROOF SYSTEM, R-30. ON METAL PURLINS
 - CORRUGATED METAL SIDING
 - STANDING SEAM METAL ROOFING ON 1/2" METAL DECKING ON METAL ROOF TRUSSES WITH R-30 VINYL FACED BATT INSULATION
 - 1/2" GYPSUM BOARD CEILING ON SUSPENDED METAL CHANNELS
 - METAL ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS
 - TRANSLUCENT PANEL SYSTEM. REFER TO SPECIFICATIONS
 - GLASS & ALUMINUM STOREFRONT SYSTEM. REFER TO SPECIFICATIONS
 - MOTOR OPERATED PRE-FINISHED OVERHEAD SECTIONAL METAL DOOR AND TRACK. REFER TO DOOR SCHEDULE & SPECIFICATIONS
 - ALUMINUM PANEL CLADDING SYSTEM. REFER TO SPECIFICATIONS
 - 6" x 36" PRE-FINISHED ALUMINUM LOUVERED 'ECOSHADE' AWNING WITH SIX 36" BLADES BY MASA ARCHITECTURAL CANOPIES (www.architecturalcanopies.com) OR APPROVED EQUAL
 - 42" HIGH x 6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. REFER TO DETAIL 1/A5.5
 - CONCRETE PAVEMENT. SEE CIVIL ENGINEERING DRAWINGS
 - PROVIDE CAST IRON DOWNSPOUT BOOT AND CONNECT TO UNDERGROUND STORM WATER COLLECTION SYSTEM. SEE CIVIL ENGINEERING DRAWINGS
 - PRE-FINISHED METAL LINER PANEL. SEE SPECIFICATIONS
 - FIBER CEMENT BOARD CLADDING SYSTEM OVER 1/2" FIRE TREATED PLYWOOD WITH METAL FRAMING AT 16" O.C. REFER TO SPECIFICATIONS
 - PRE-FINISHED VENTED METAL SOFFIT PANEL
 - TOP OF RETURN AIR PLENUM. 1/2" GYPSUM BOARD ON METAL CHANNELS
 - EMBEDDED STEEL ANGLE
 - PRE-ENGINEERED RIGID STEEL FRAME. REFER TO STRUCTURAL DRAWINGS
 - PROVIDE EXPANSION JOINT
 - 1/2" FIRE TREATED PLYWOOD SHEATHING ON LIGHT GAUGE METAL FRAMING. REFER TO STRUCTURAL DRAWINGS
 - HVAC DUCTWORK FROM ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS
 - 1/2" GYPSUM BOARD SHEATHING ON METAL WALL STUDS AT 16" O.C.
 - PROVIDE CONTINUOUS PRE-FINISHED METAL COPING OVER BEAD OF SEALANT
 - 60" HIGH PRE-FINISHED ALUMINUM PERFORATED 0.040" PANEL, BR5-36 1/2", SCORLAP BY CENTRIA, WITH APPLIED LETTERING ON 2x6" ANODIZED ALUMINUM TUBES WITH INTERMEDIATE VERTICALS TO ALIGN WITH WINDOW FRAME. SEE BUILDING ELEVATIONS
 - 8" x 8" RECESS. SEE BUILDING ELEVATIONS
 - DIAGONAL BRACE. SEE STRUCTURAL DRAWINGS
 - COMPRESSIBLE EXPANSION MATERIAL
 - PRE-FINISHED ALUMINUM COLUMN COVER
 - EXTEND ROOF PURLIN. SEE STRUCTURAL DRAWINGS
 - PRE-FINISHED METAL TRIM. AXIOM CLASSIC TRIM BY ARMSTRONG OR APPROVED EQUAL
 - PROVIDE ICE & WATER SHIELD MEMBRANE ON HORIZONTAL AREAS. EXTEND MEMBRANE MINIMUM 6" ON ADJOINING VERTICAL SURFACES.
 - X-BRACING. SEE STRUCTURAL DRAWINGS
 - SOLID SURFACE SILL AND APRON
 - 3" x 1/2" PVC BLOCKING AT SCREW DOWN LOCATIONS. DO NOT CAULK STOREFRONT TO ROOF MEMBRANE. ALLOW STORMWATER TO FLOW UNDER STOREFRONT
 - BREAK METAL TRIM (MATCH STOREFRONT) OVER WOOD BLOCKING



NEW FIRE STATION NO. 10
 FOR
THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
1	Construction Documents		02-03-2023
2	Conformance Documents		05-17-2023

MGM Project No. SP-5-21
 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED

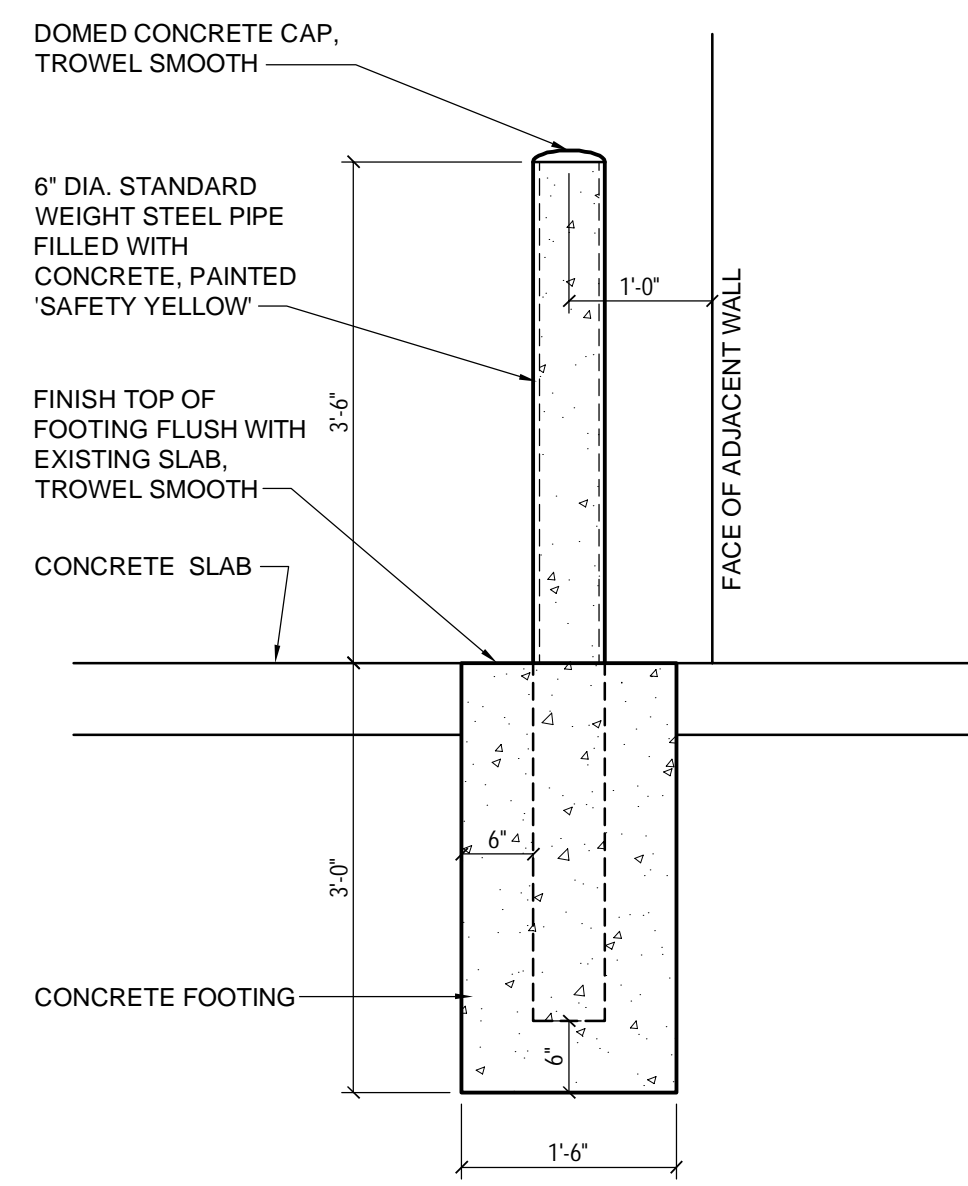
Drawing Title:

WALL SECTIONS

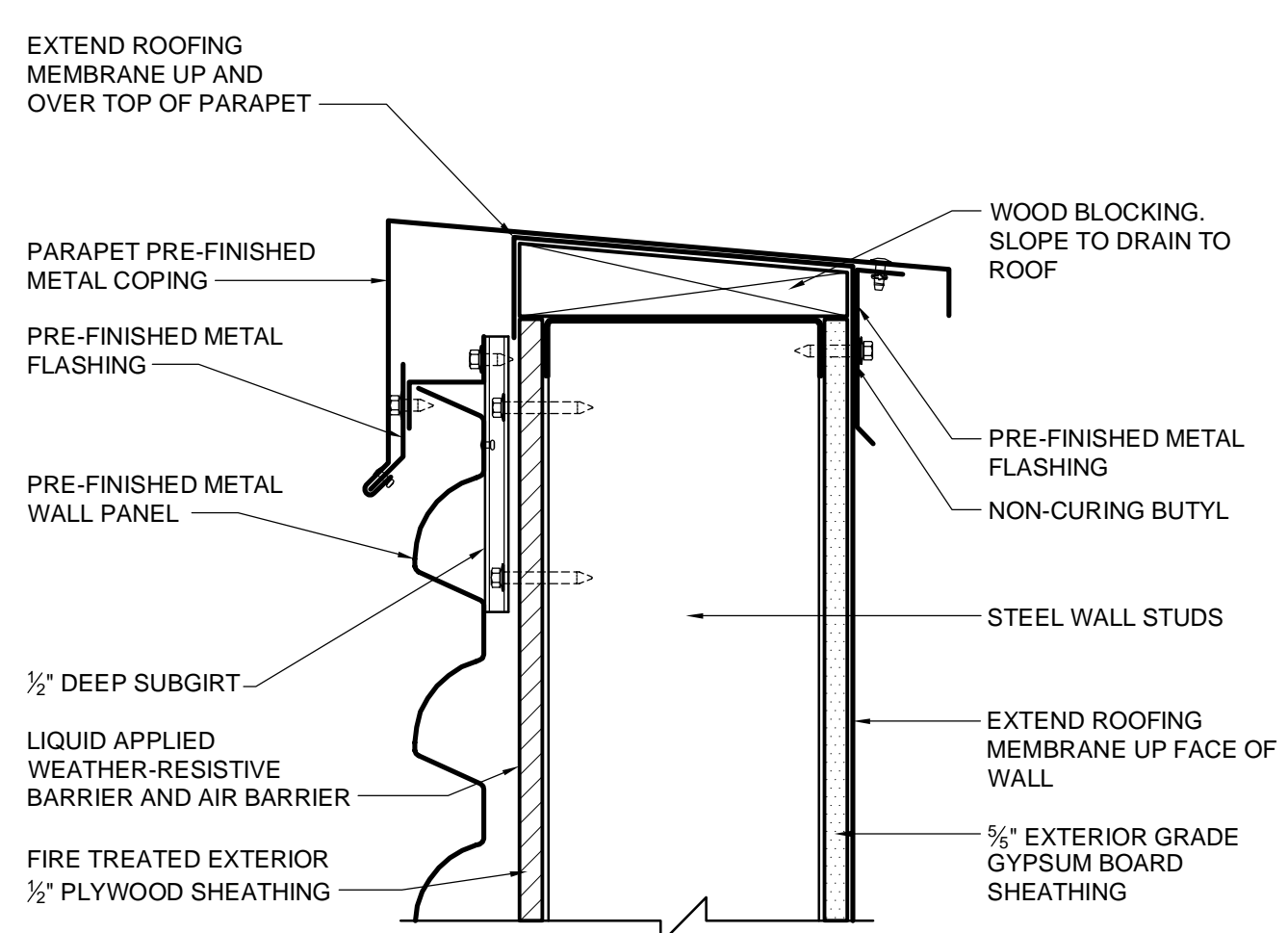
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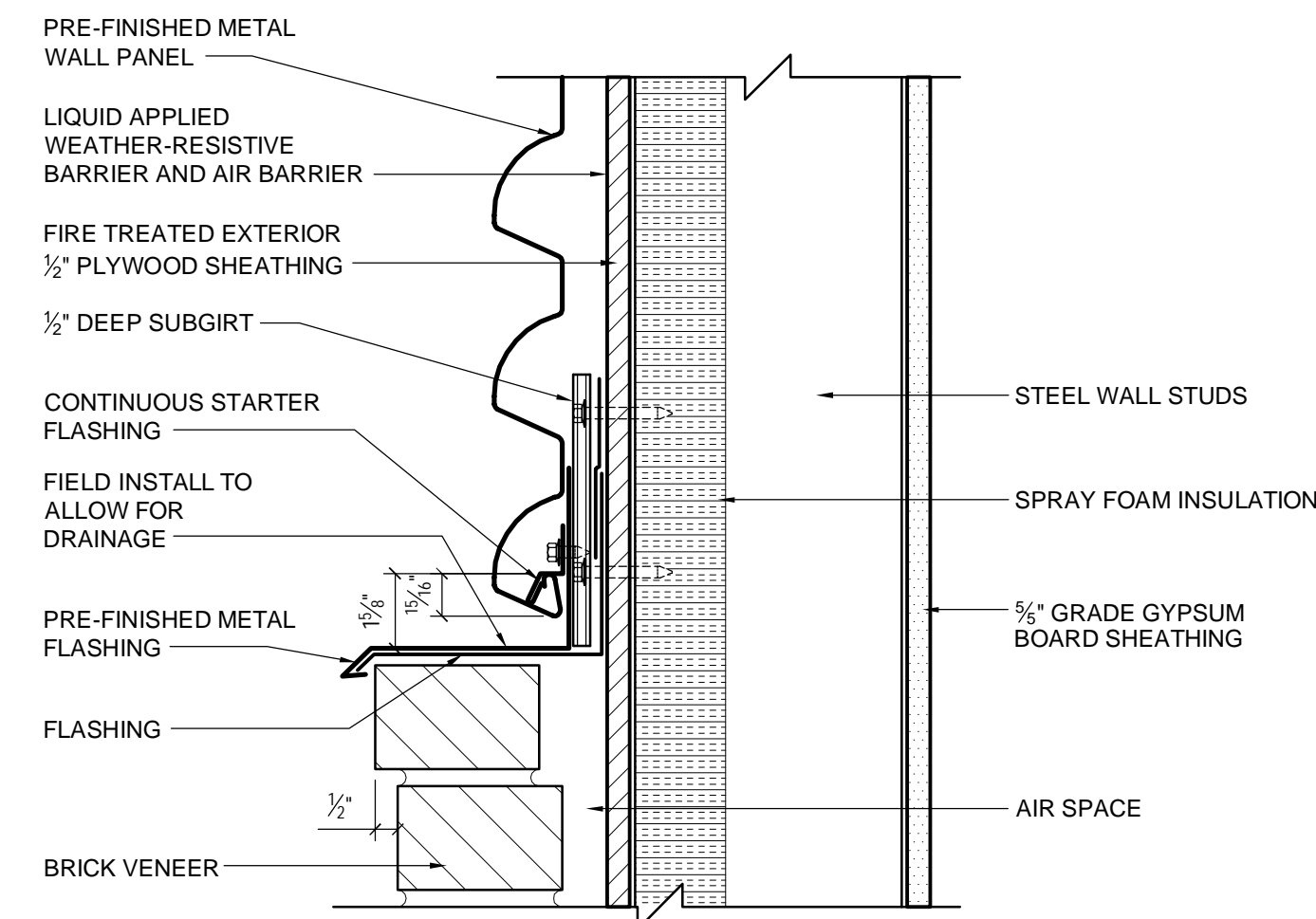
CONFORMANCE DOCUMENTS



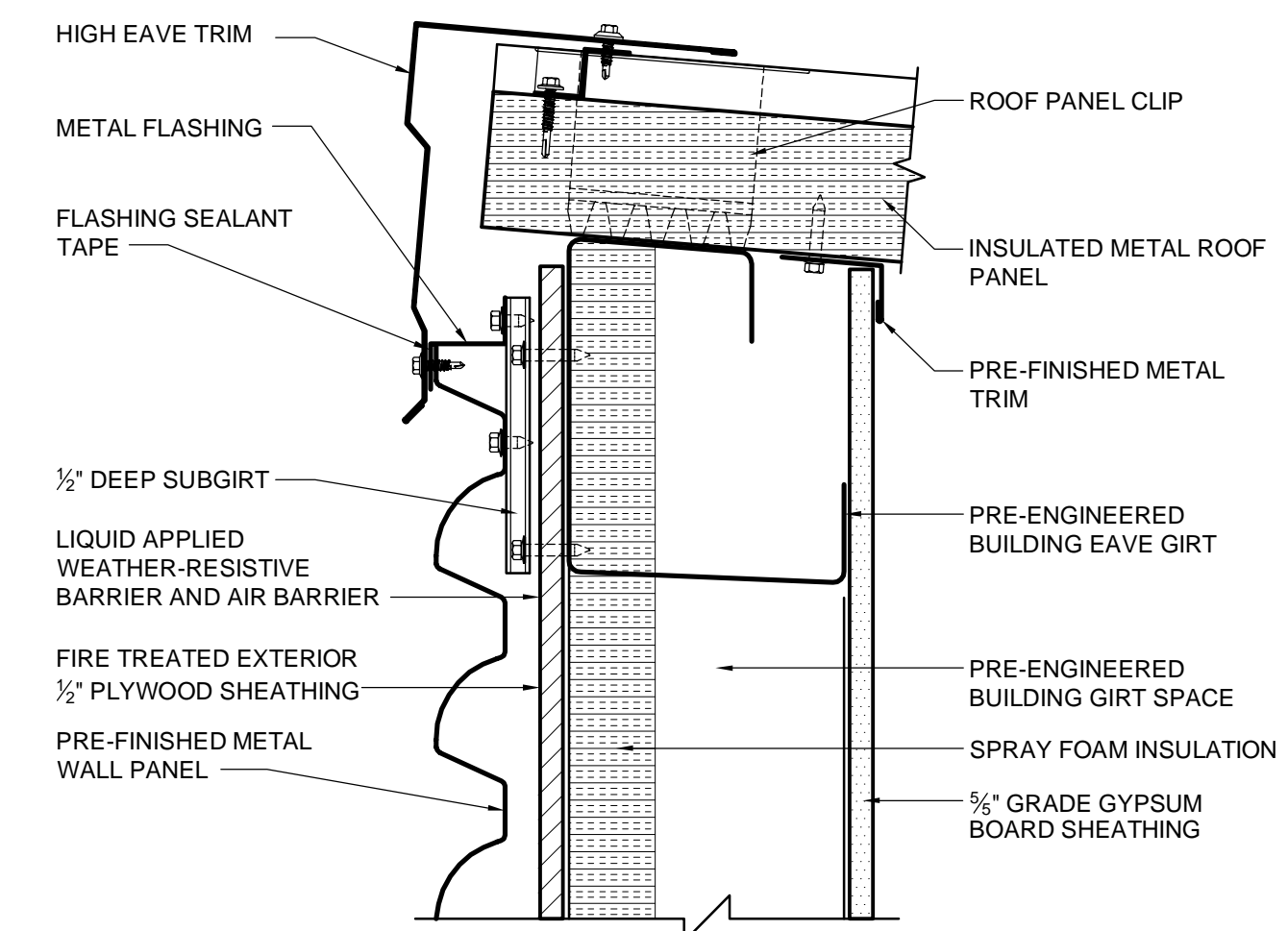
1
A5.7
PIPE BOLLARD
SCALE: 3/4" = 1'-0"



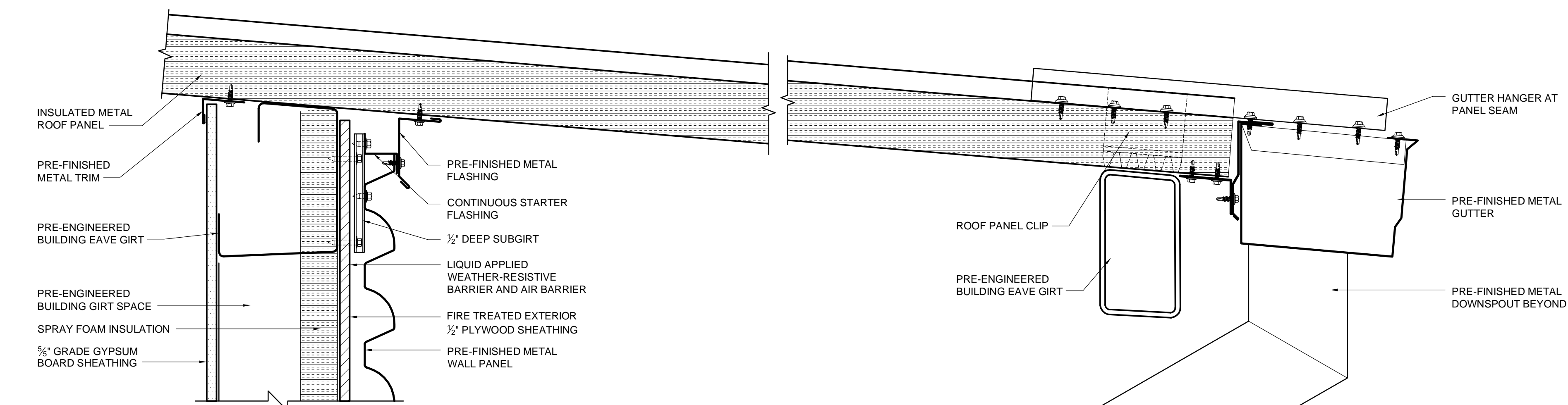
2
A5.7
PARAPET DETAIL
SCALE: 3" = 1'-0"



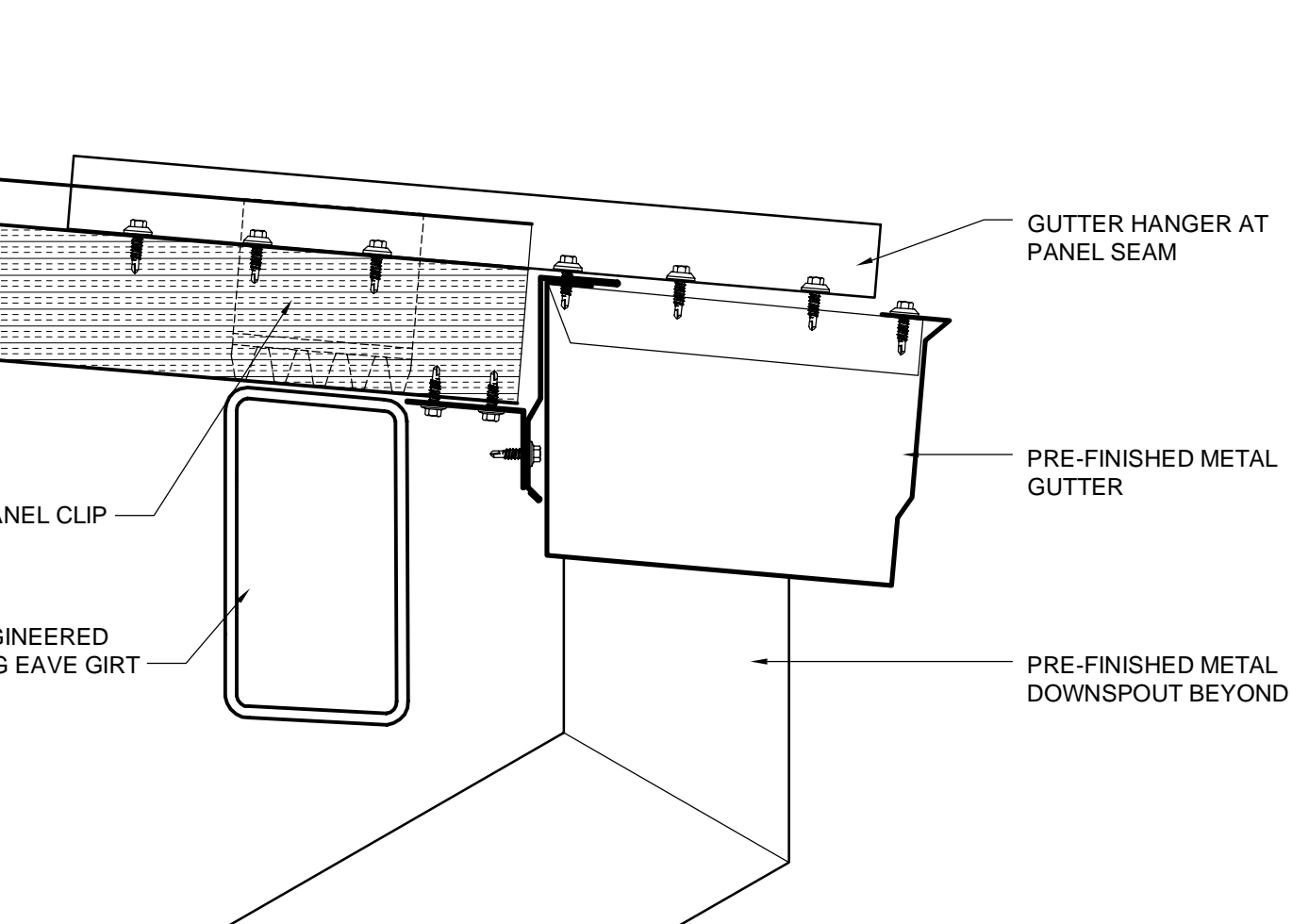
3
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ROWLOCK DETAIL
SCALE: 3" = 1'-0"



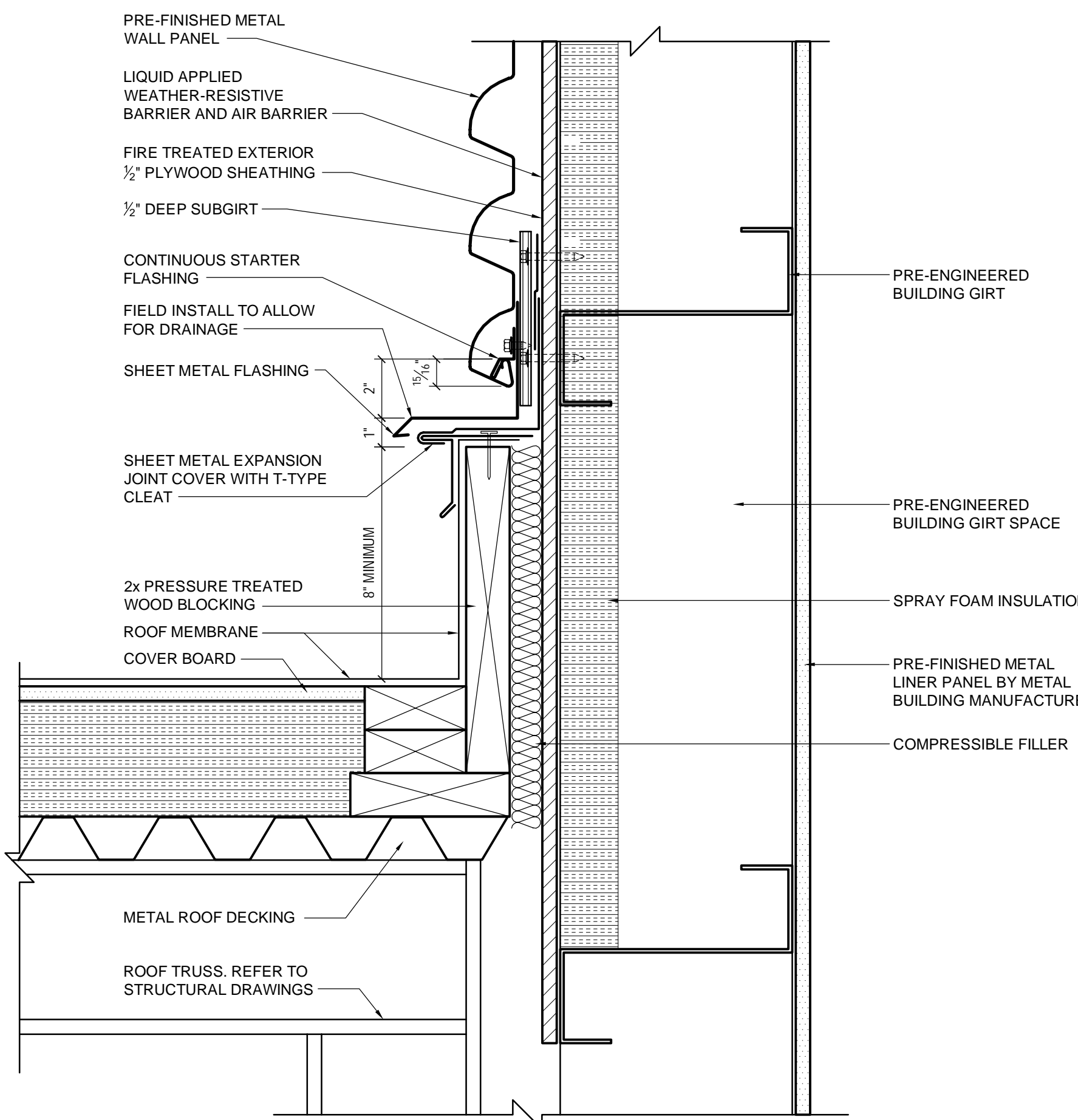
4
A5.7
EAVE DETAIL
SCALE: 3" = 1'-0"



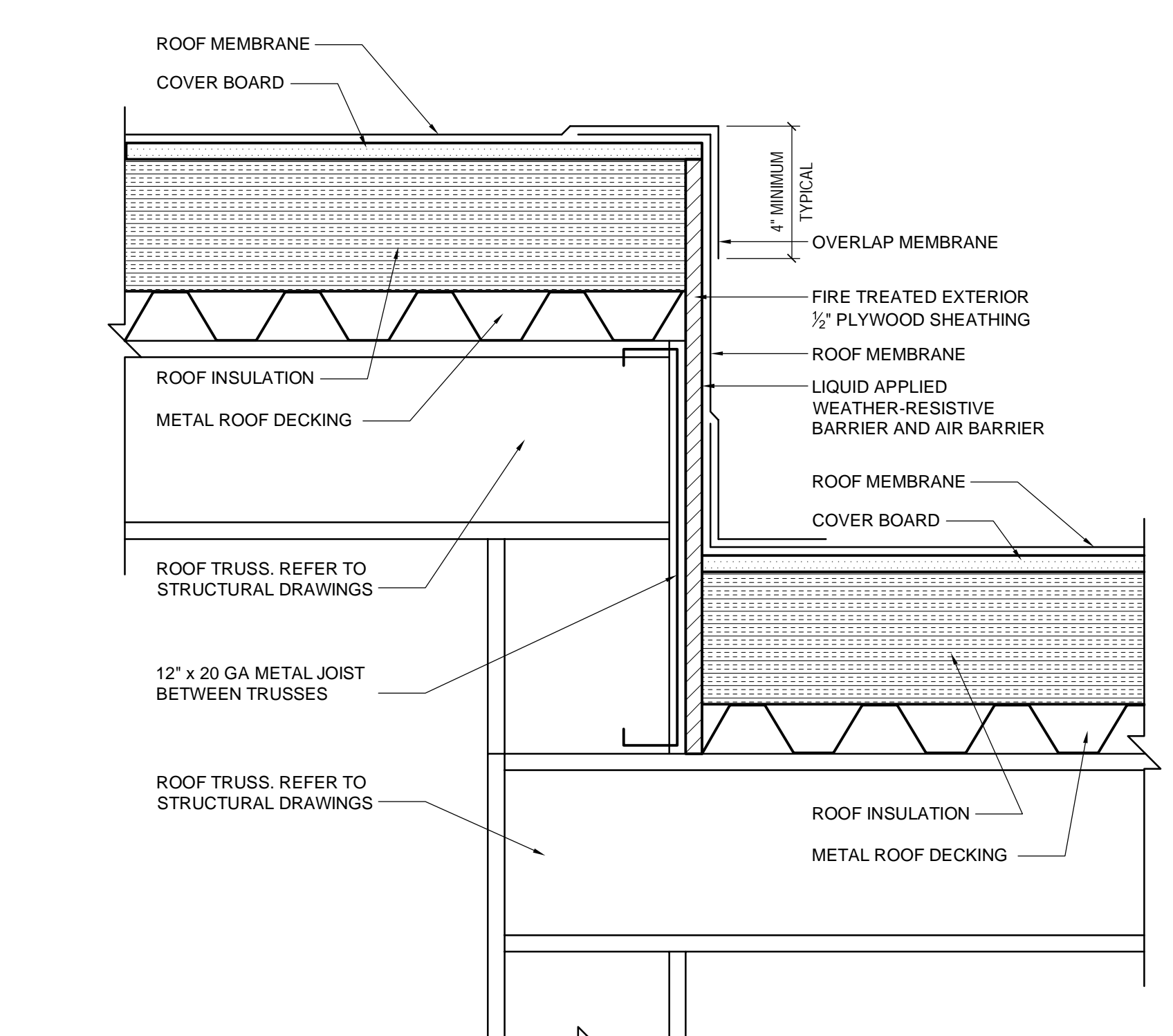
5
A5.7
EAVE DETAIL
SCALE: 3" = 1'-0"



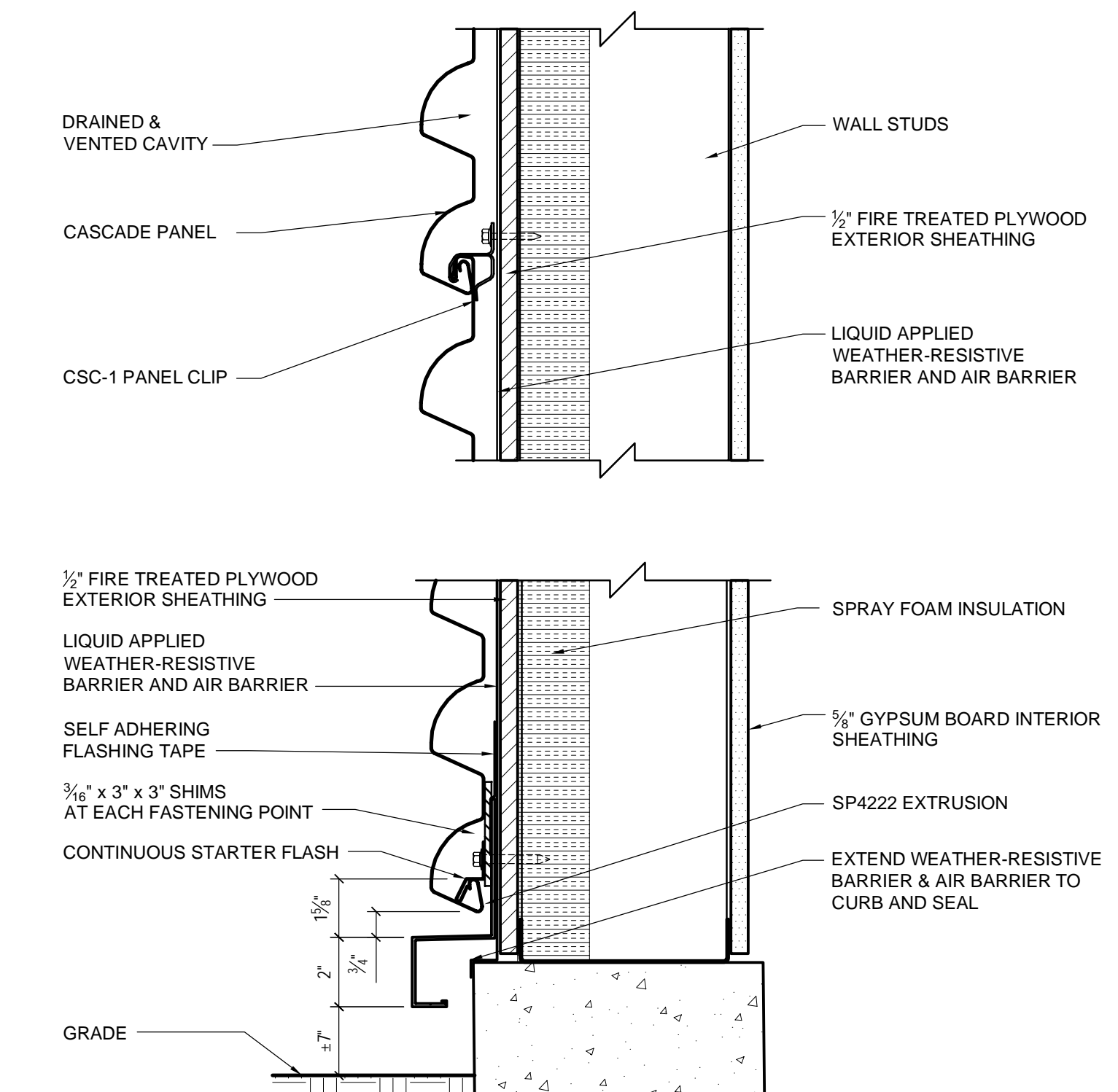
6
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OVERHANG DETAIL
SCALE: 3" = 1'-0"



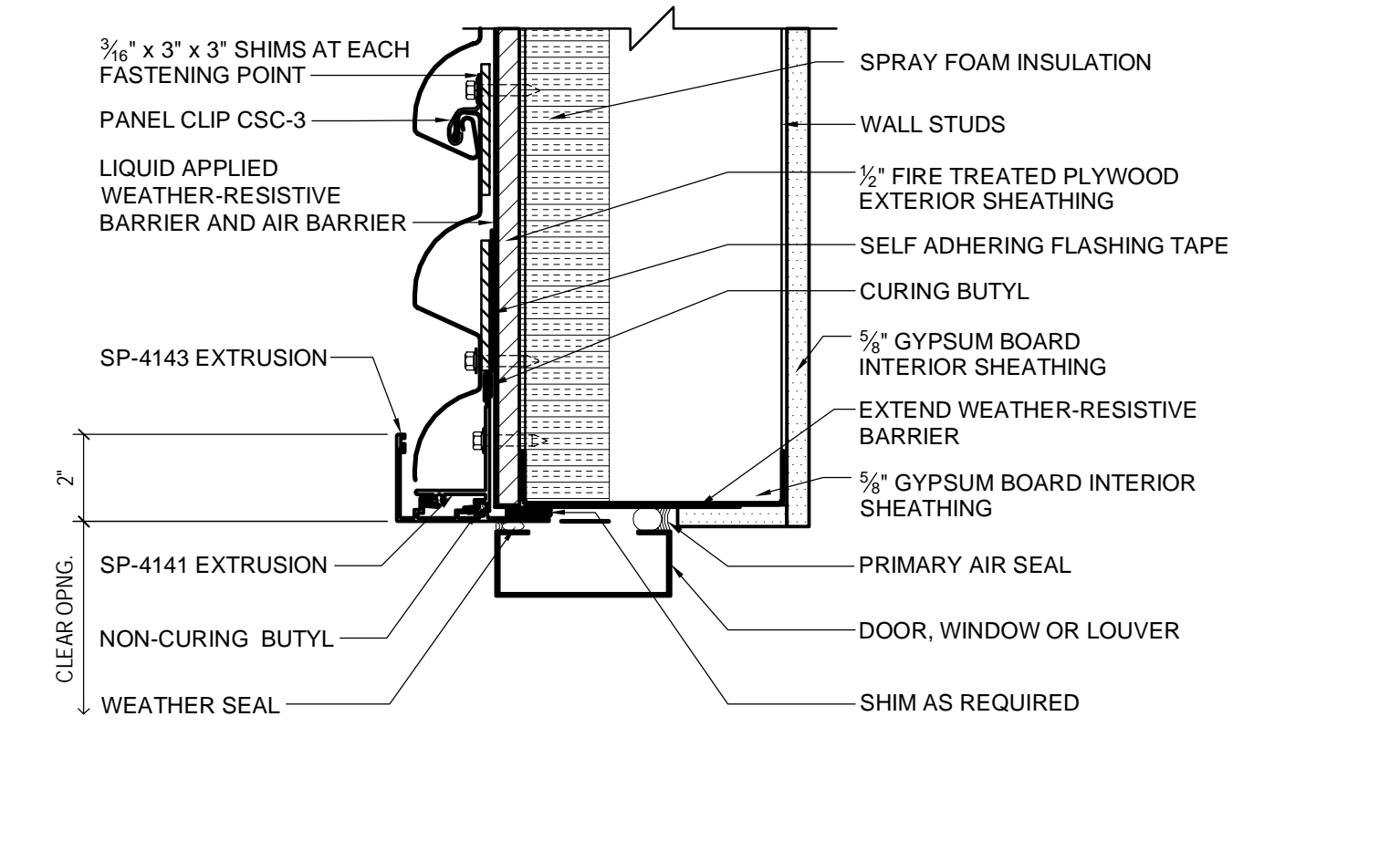
7
A5.7
EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"



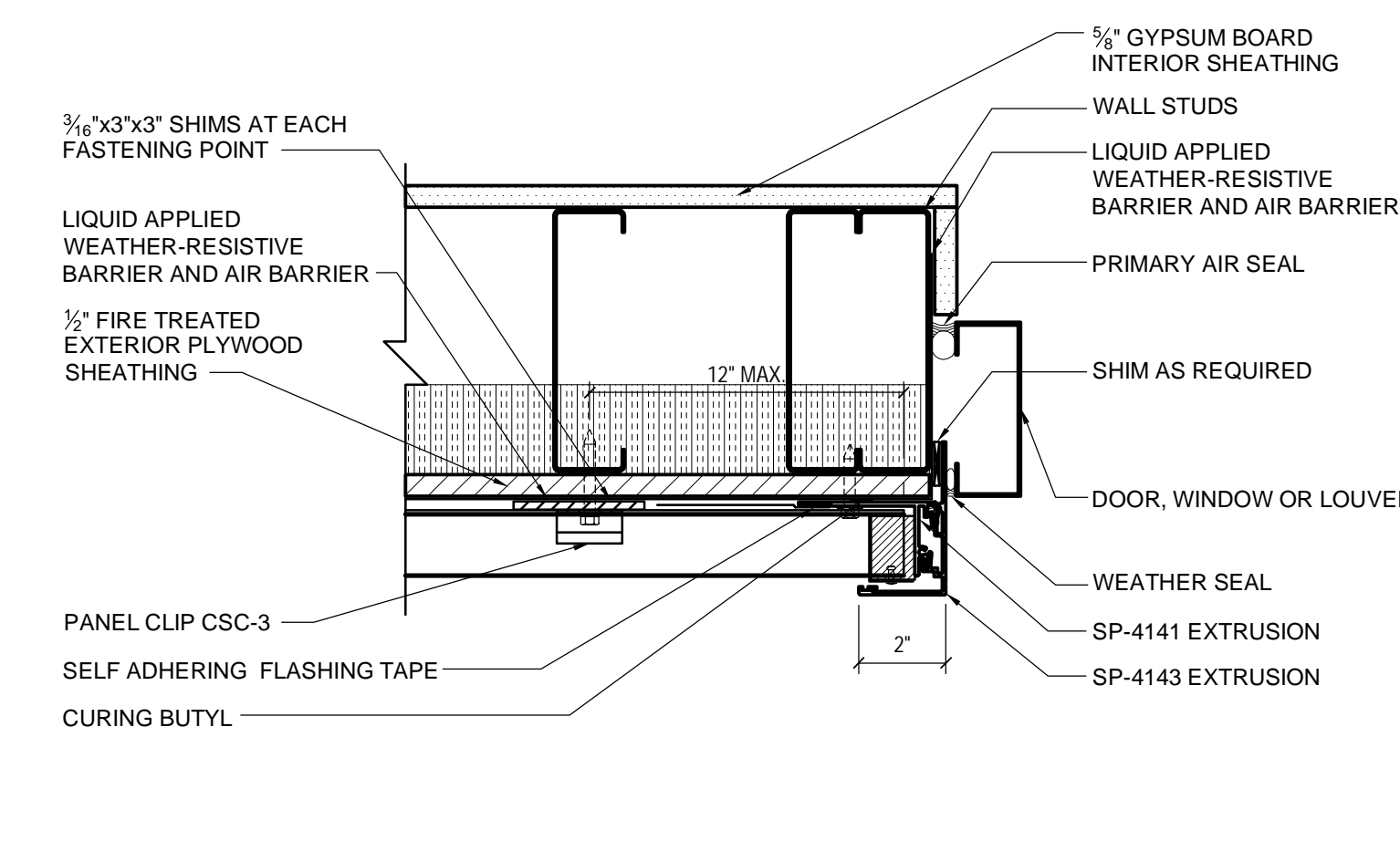
8
A5.7
ROOF STEP DETAIL
SCALE: 3" = 1'-0"



9
A5.7
METAL PANEL DETAIL
SCALE: 3" = 1'-0"



10
A5.7
METAL PANEL DETAIL
SCALE: 3" = 1'-0"



11
A5.7
METAL PANEL DETAIL
SCALE: 3" = 1'-0"

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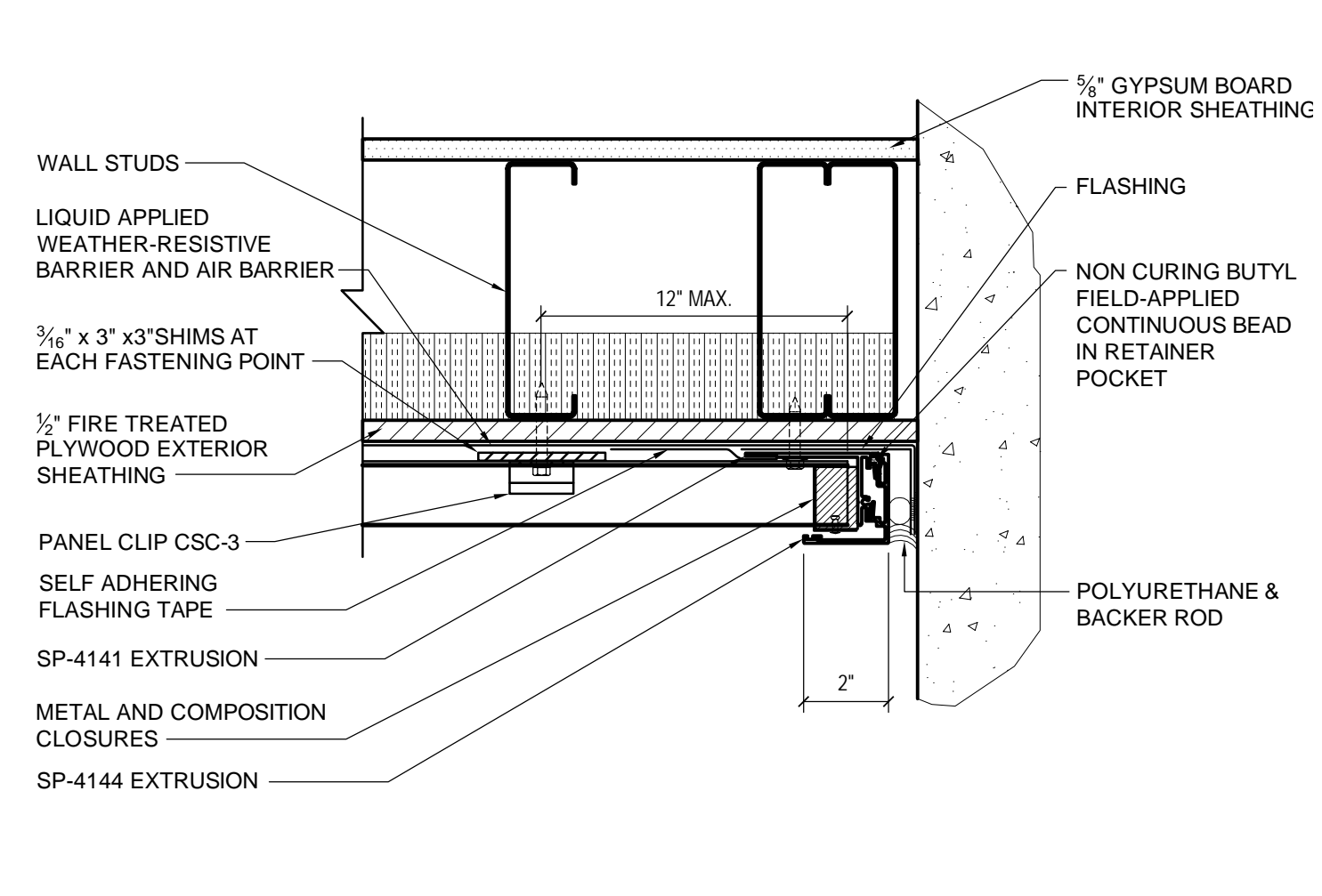
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date: AS NOTED
Scale: AS NOTED
Drawing Title:

DETAILS

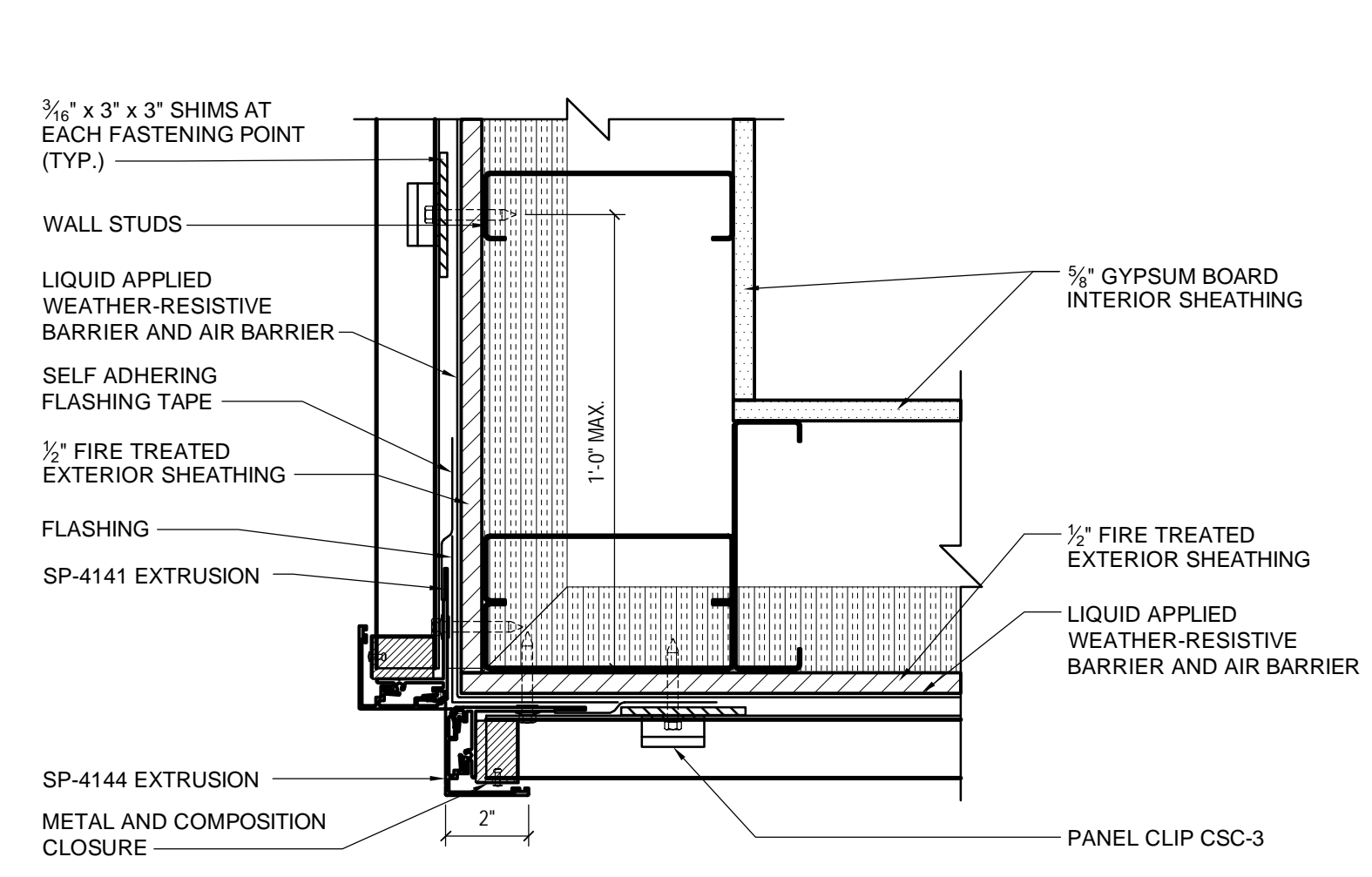
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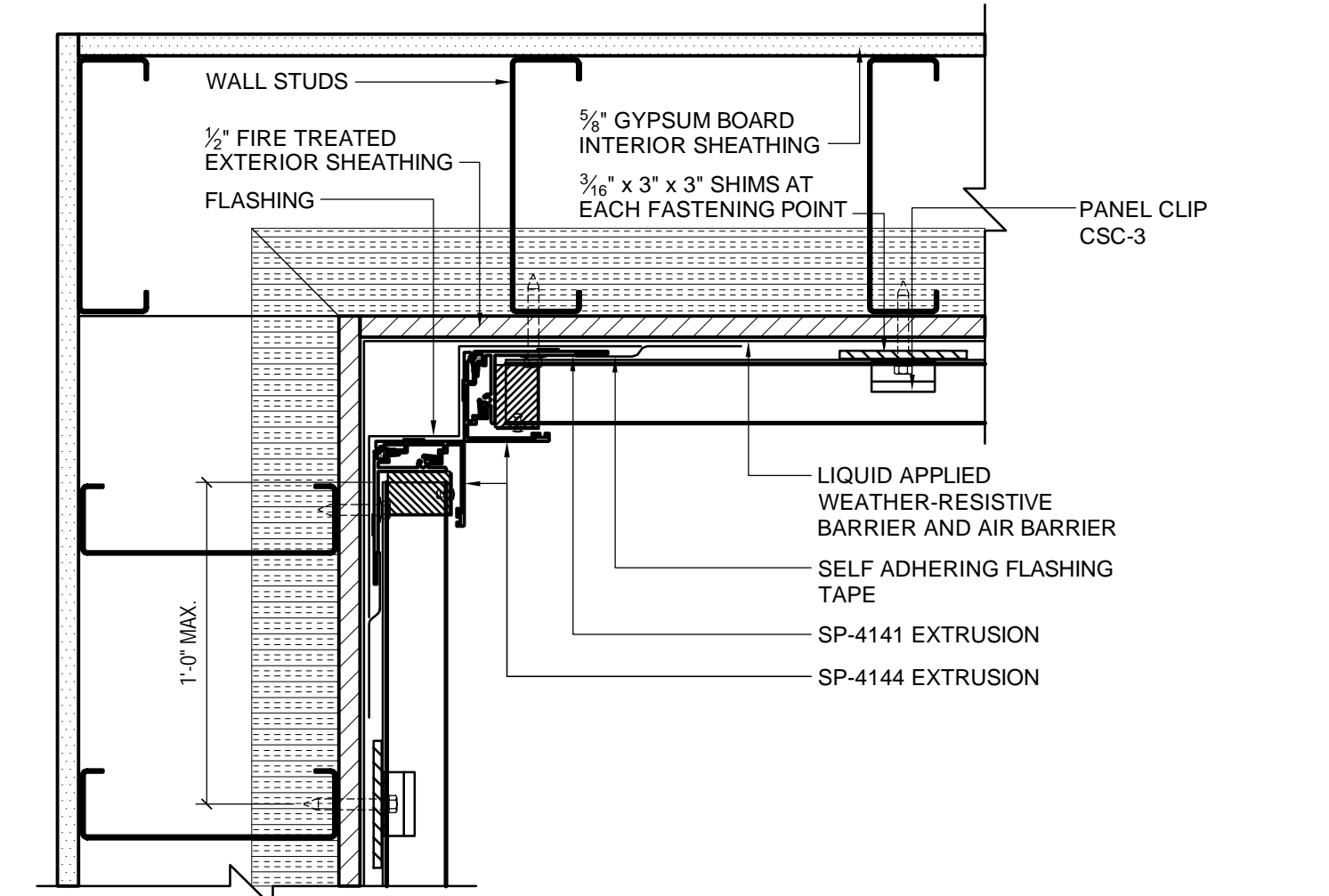
CONFORMANCE DOCUMENTS



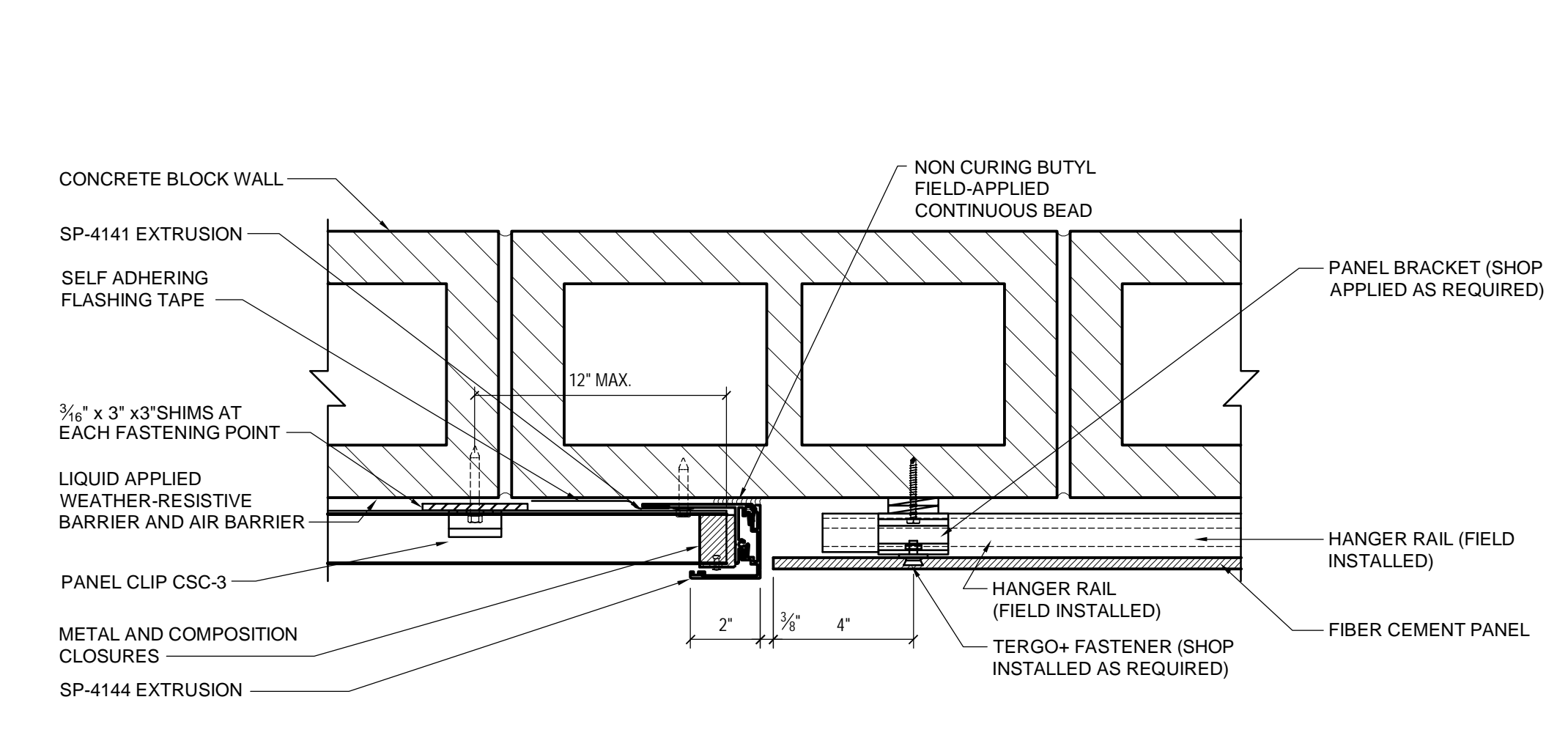
1 METAL PANEL DETAIL
SCALE: 3" = 1'-0" END WALL DETAIL



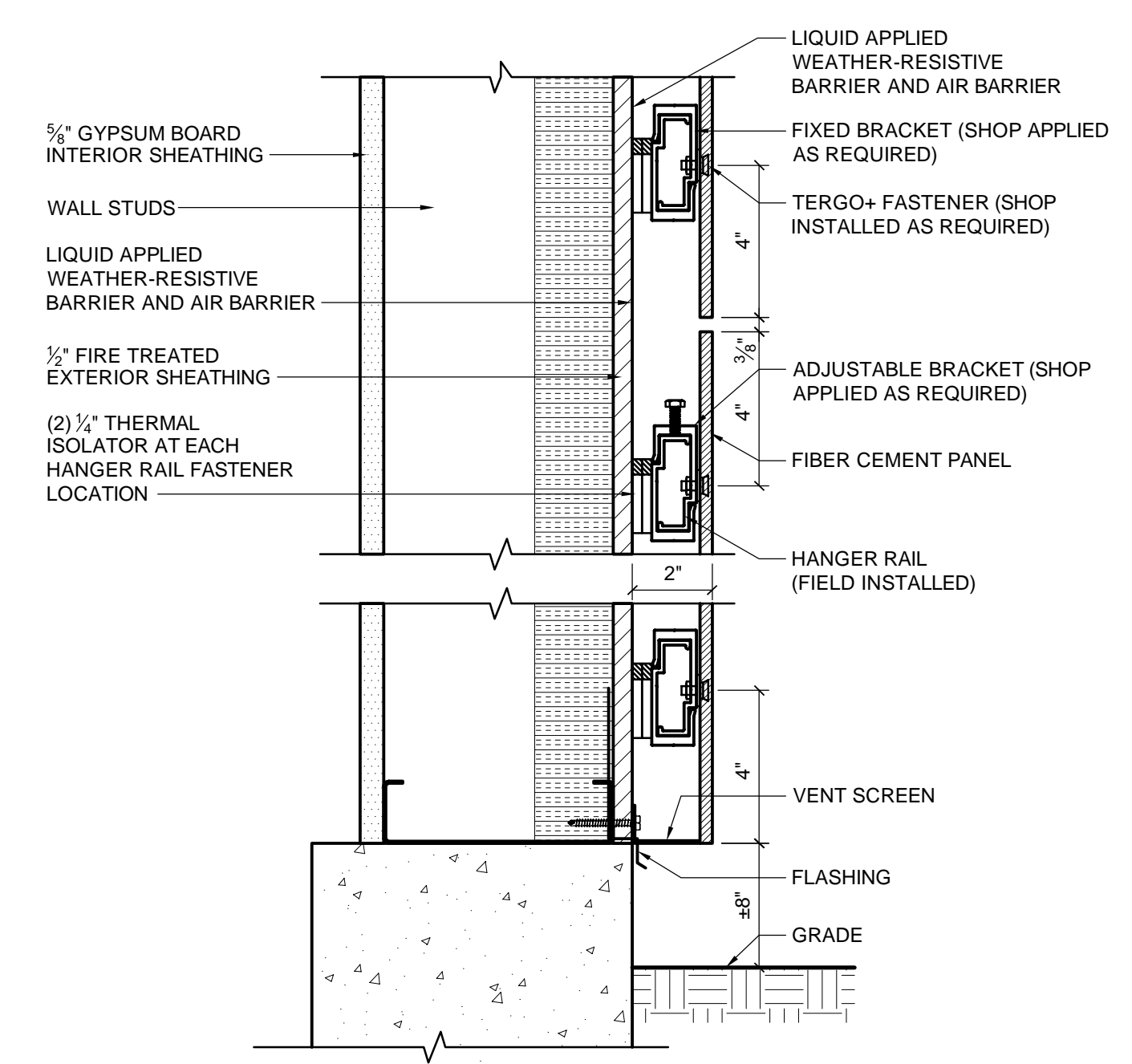
2 METAL PANEL DETAIL
SCALE: 3" = 1'-0" OUTSIDE CORNER DETAIL



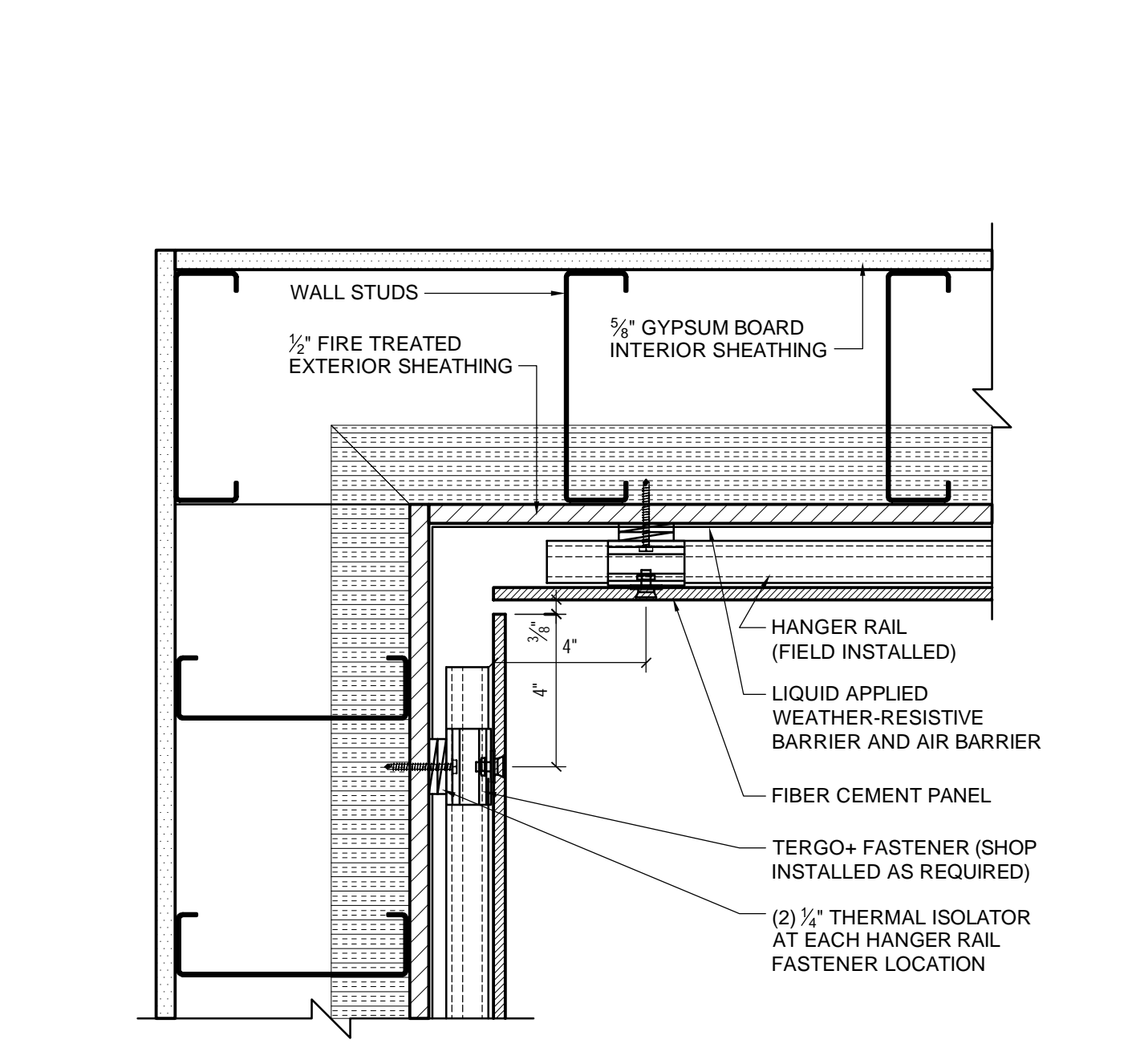
3 METAL PANEL DETAIL
SCALE: 3" = 1'-0" INSIDE CORNER DETAIL



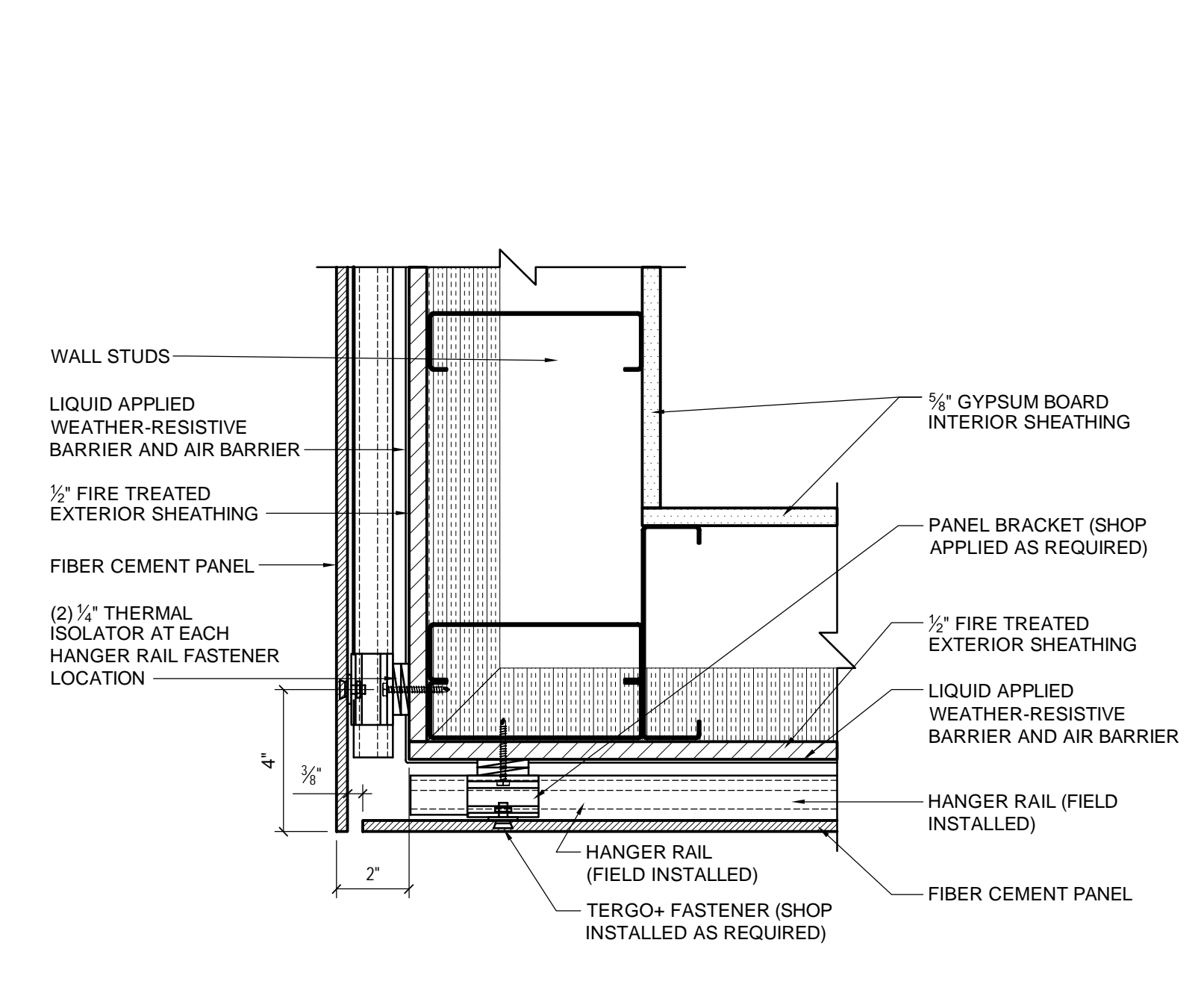
4 PANEL TO PANEL DETAIL
SCALE: 3" = 1'-0" TRANSITION DETAIL



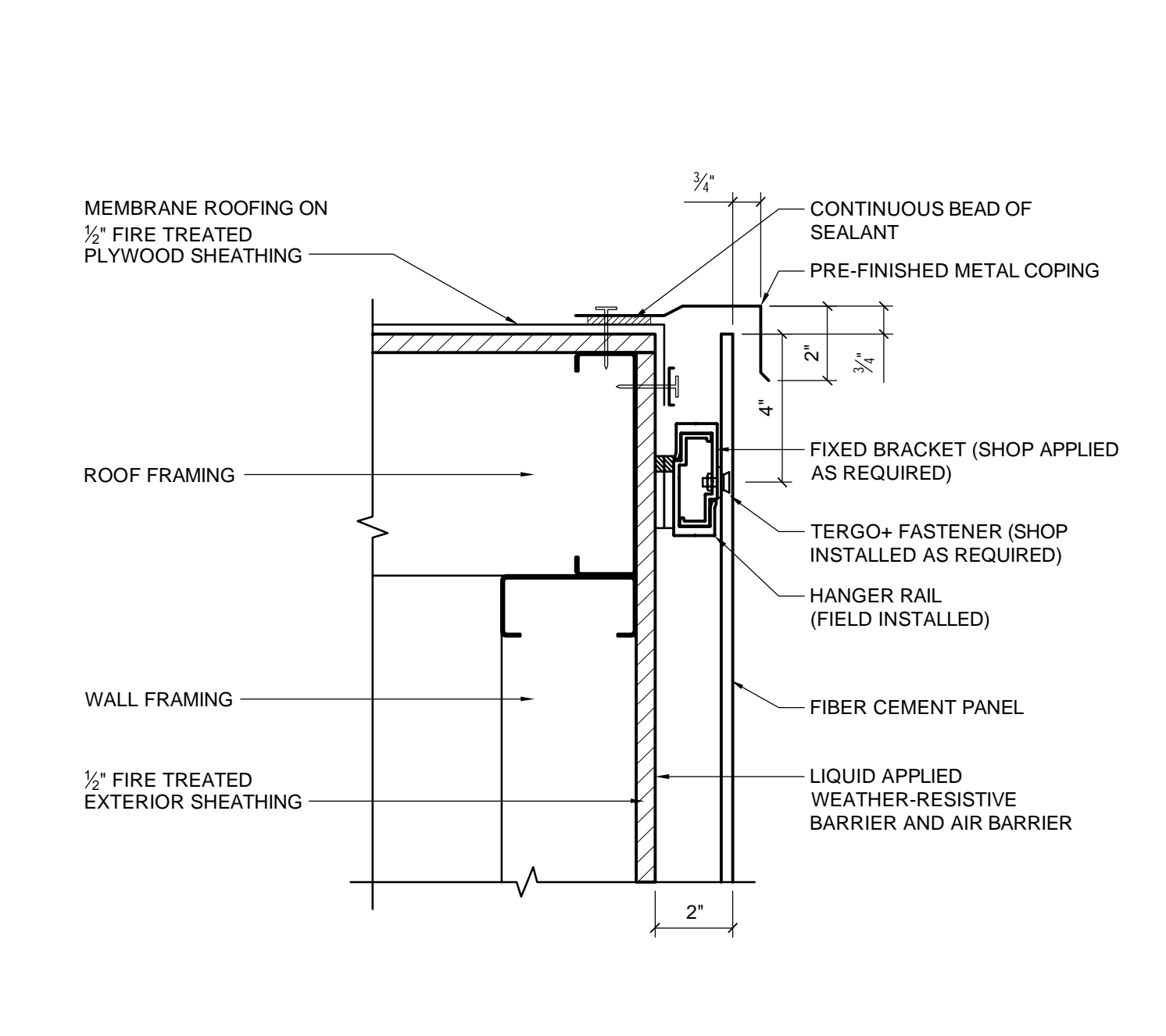
5 FIBER CEMENT PANEL DETAIL
SCALE: 3" = 1'-0" HORIZONTAL JOINT & BASE DETAIL



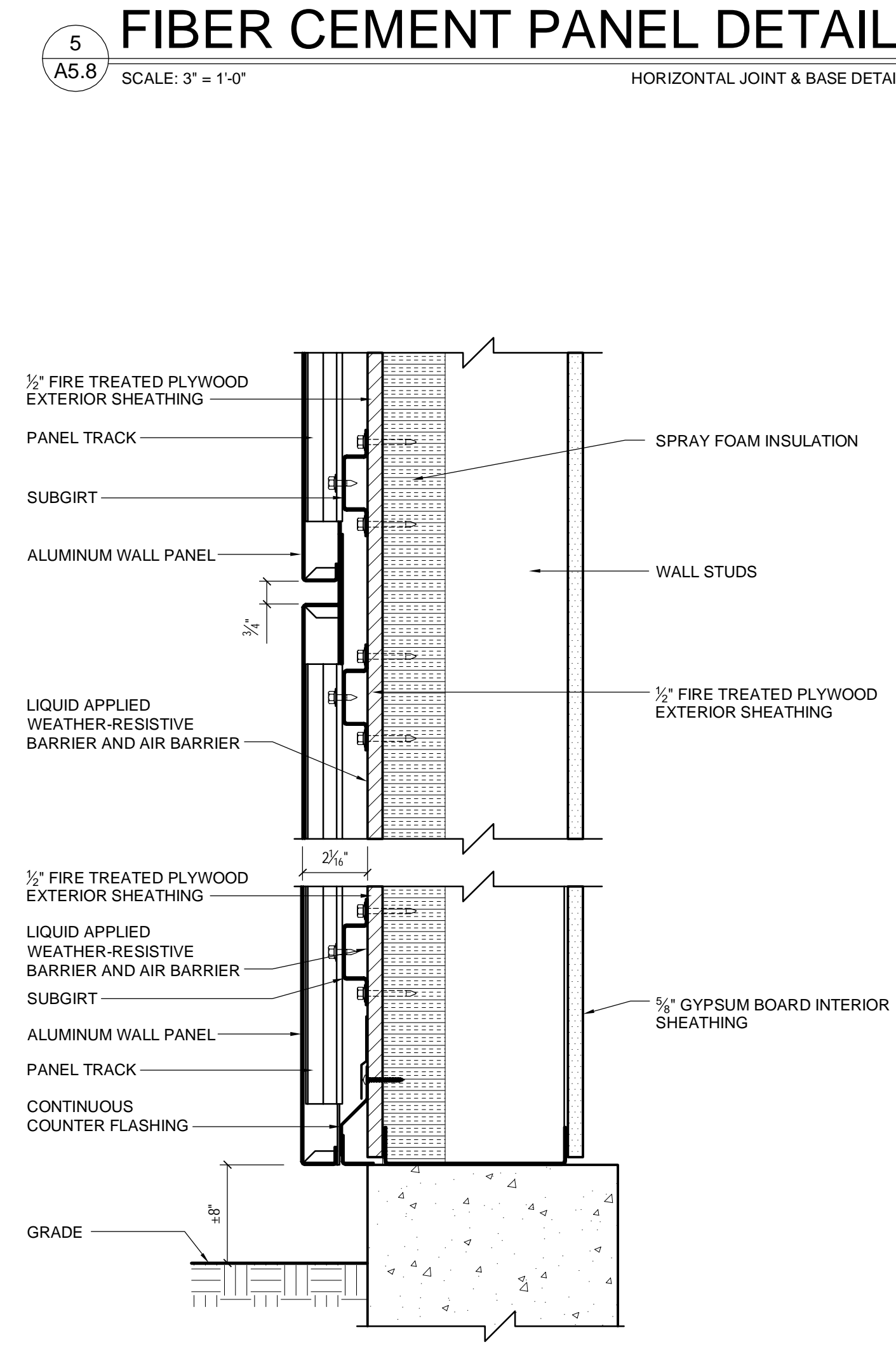
6 FIBER CEMENT PANEL DETAIL
SCALE: 3" = 1'-0" INSIDE CORNER DETAIL



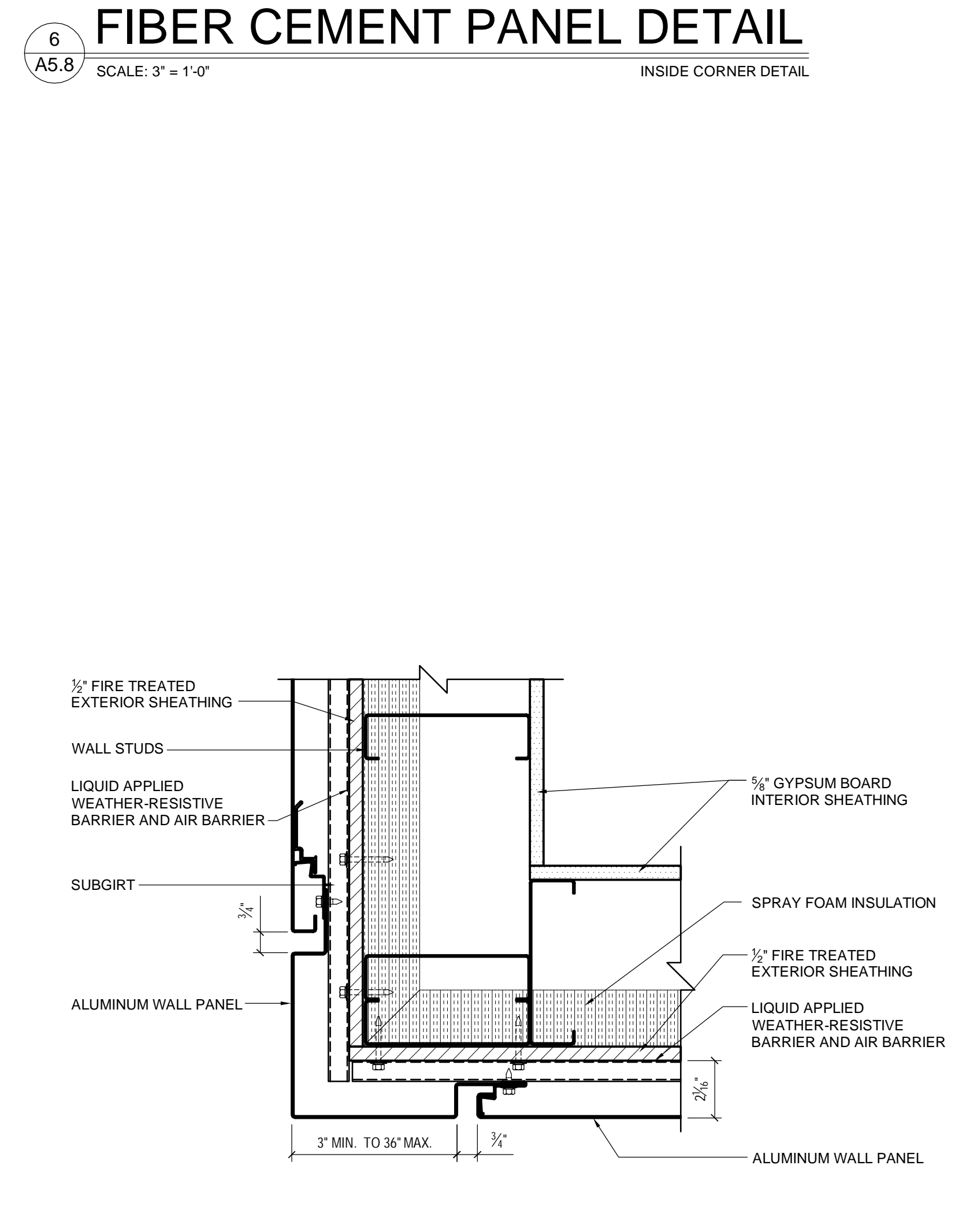
7 FIBER CEMENT PANEL DETAIL
SCALE: 3" = 1'-0" OUTSIDE CORNER DETAIL



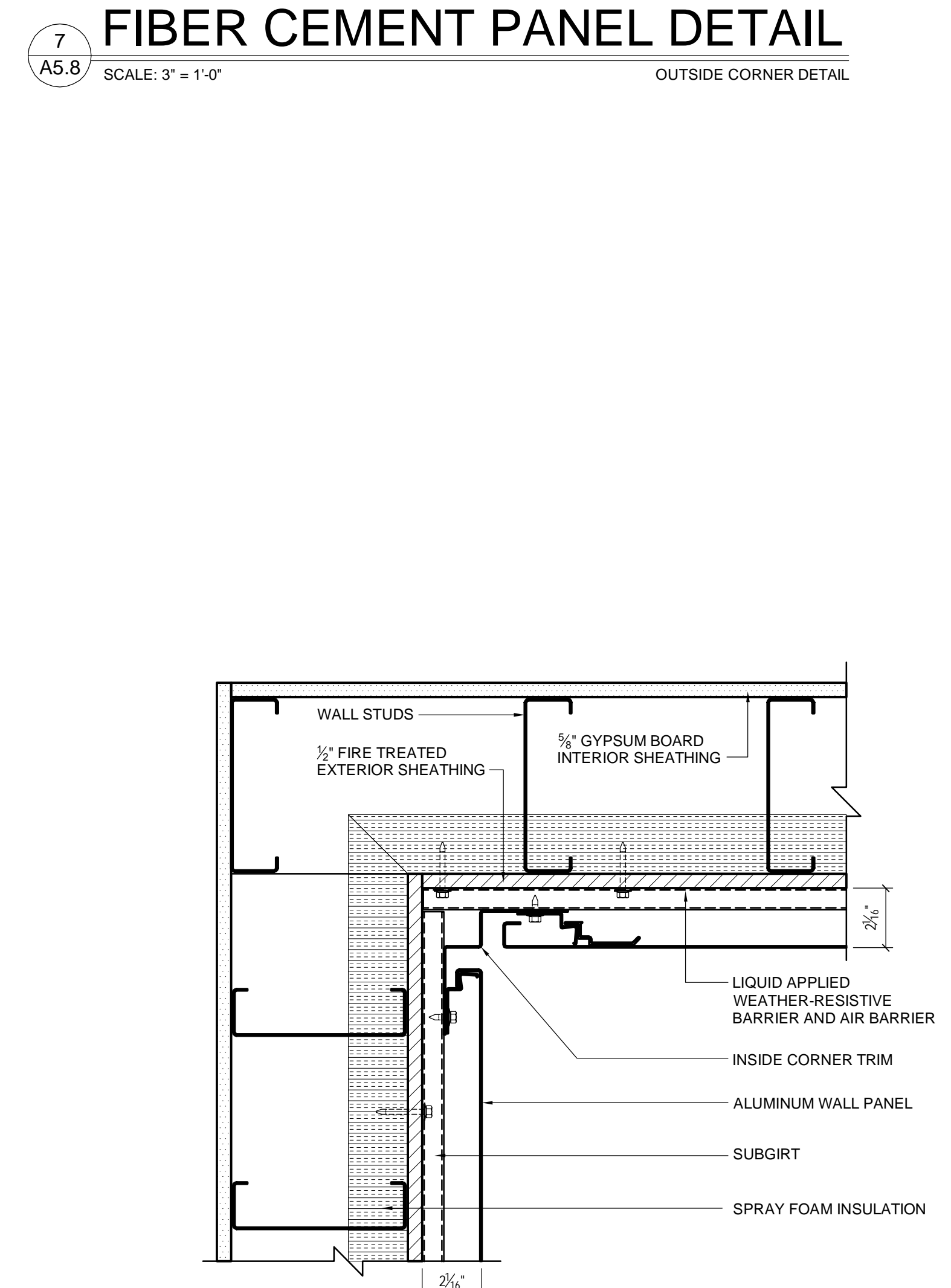
8 FIBER CEMENT PANEL DETAIL
SCALE: 3" = 1'-0" TOP OF WALL DETAIL



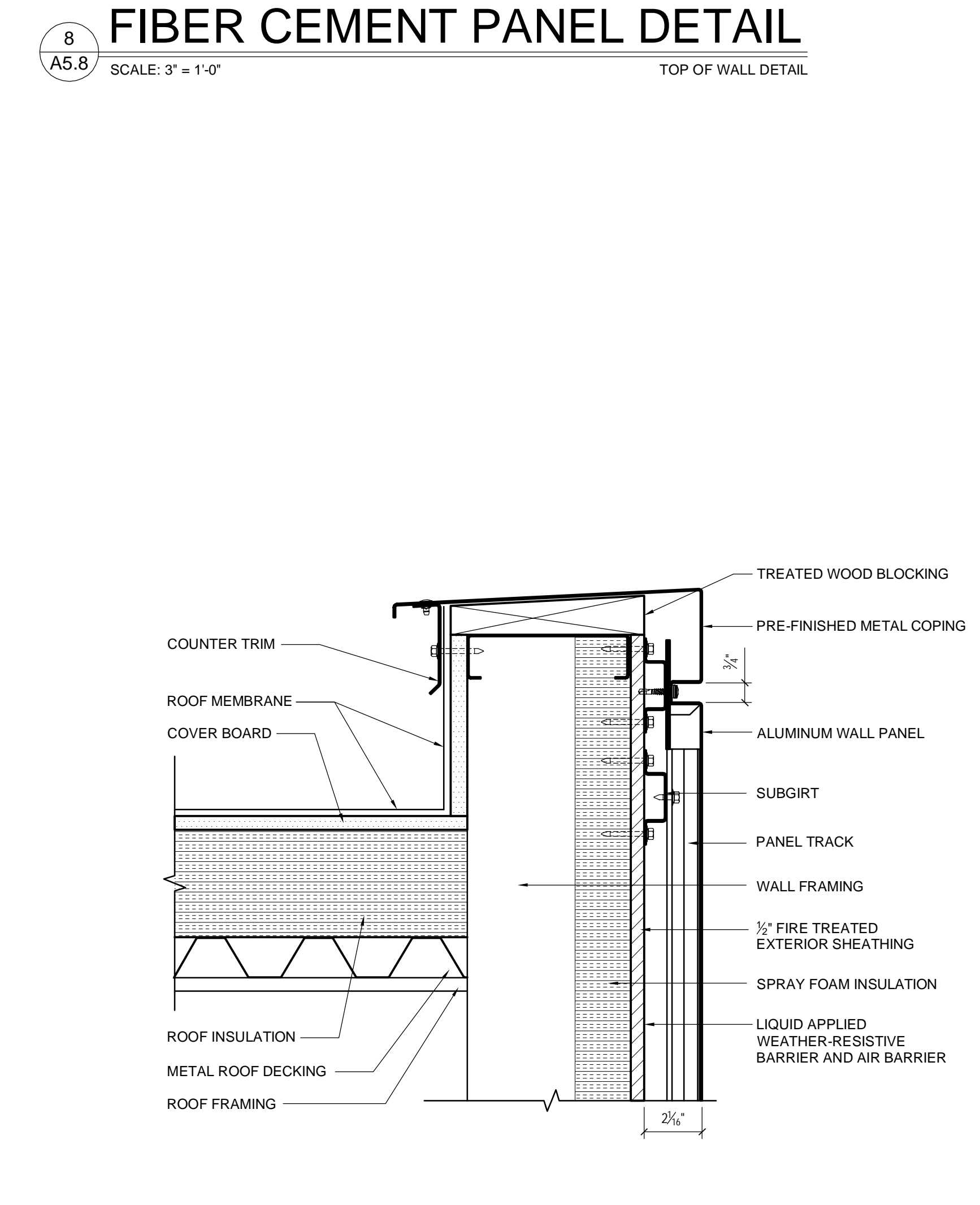
9 ALUMINUM PANEL DETAIL
SCALE: 3" = 1'-0" HORIZONTAL JOINT & BASE DETAIL



10 ALUMINUM PANEL DETAIL
SCALE: 3" = 1'-0" OUTSIDE CORNER DETAIL



11 ALUMINUM PANEL DETAIL
SCALE: 3" = 1'-0" INSIDE CORNER DETAIL



12 ALUMINUM PANEL DETAIL
SCALE: 3" = 1'-0" PARAPET DETAIL

NEW FIRE STATION NO. 10
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SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
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MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED

Drawing Title:

DETAILS

Sheet No:

A5.8

CONFORMANCE DOCUMENTS

DOOR SCHEDULE												
MARK	DOOR			FRAME		FIRE RATING	SIGNAGE	DETAILS			REMARKS	
	SIZE	TYPE	MATERIAL	TYPE	MATERIAL			HEAD	JAMB	SILL		
101	PR 3'-0" x 8'-0"	SF-1	S.F.	SF-A	S.F.			1/A6.5	2/A6.5			
102	3'-0" x 7'-0"	B	WOOD	C	H.M.		UNI-SEX TOILET	1/A6.4	2/A6.4	3/A6.4		
103	PR 3'-0" x 8'-0"	SF-1	S.F.	SF-B	S.F.			21/A6.4	22/A6.4		1	
104	3'-0" x 7'-0"	B	WOOD	C	H.M.		STORAGE	1/A6.4 (sim.)	2/A6.4 (sim.)	3/A6.4 (sim.)		
105	3'-0" x 7'-0"	B	WOOD	C	H.M.		UNI-SEX TOILET	1/A6.4	2/A6.4	3/A6.4		
108	3'-0" x 7'-0"	B	WOOD	C	H.M.	45 MINUTES		1/A6.4	2/A6.4	3/A6.4		
109A	3'-0" x 7'-0"	SF-2	S.F.	SF-C	S.F.			13/A6.4	14/A6.4			
109B	3'-0" x 7'-0"	SF-2	S.F.	E	S.F.			5/A6.5	6/A6.5			
110	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4 (sim.)	2/A6.4 (sim.)	3/A6.4 (sim.)		
111	3'-0" x 7'-0"	B	WOOD	C	H.M.		I.T.	1/A6.4 (sim.)	2/A6.4 (sim.)	3/A6.4 (sim.)		
112	3'-0" x 7'-0"	B	WOOD	SF-P	S.F.		COMMAND WATCH	1/A6.4	2/A6.4	3/A6.4		
113A	PR 3'-0" x 7'-0"	SF-5	S.F.	SF-D	S.F.			19/A6.4	20/A6.4			
113B	3'-0" x 7'-0"	G	GHM	B	GHM			7/A6.4	8/A6.4	9/A6.4		
113C	PR 7'-0" x 14'-0"	BD-1	SECTIONAL OVERHEAD									
113D	PR 7'-0" x 14'-0"	BD-1	SECTIONAL OVERHEAD									
113E	PR 7'-0" x 14'-0"	BD-1	SECTIONAL OVERHEAD									
113F	3'-0" x 7'-0"	G	GHM	B	GHM			11/A6.4	12/A6.4			
113G	3'-0" x 7'-0"	G	GHM	B	GHM			11/A6.4	12/A6.4			
113H	PR 7'-0" x 14'-0"	BD-1	SECTIONAL OVERHEAD									
113J	PR 7'-0" x 14'-0"	BD-1	SECTIONAL OVERHEAD									
113K	PR 7'-0" x 14'-0"	BD-1	SECTIONAL OVERHEAD									
113L	3'-0" x 7'-0"	G	GHM	B	GHM			11/A6.4	12/A6.4			
114	5'-0" x 8'-0"	F	ROLL UP DOOR				GEAR STORAGE	10/A6.4	11/A6.4			
115	PR 3'-0" x 7'-0"	E	GHM	A	GHM		LAUNDRY	4/A6.4	5/A6.4	6/A6.4		
116	3'-0" x 7'-0"	A	GHM	B	GHM		WASH ROOM	4/A6.4	5/A6.4	6/A6.4		
117	3'-0" x 7'-0"	A	GHM	B	GHM		UNI-SEX TOILET	4/A6.4	5/A6.4	6/A6.4		
118	3'-0" x 7'-0"	A	GHM	B	GHM		UNI-SEX TOILET	4/A6.4	5/A6.4	6/A6.4		
119	PR 3'-0" x 7'-0"	E	GHM	A	GHM		CASCADE	4/A6.4	5/A6.4	6/A6.4		
120	PR 3'-0" x 7'-0"	E	GHM	A	GHM		STORAGE	7/A6.4	8/A6.4	9/A6.4	2	
121	3'-0" x 7'-0"	A	GHM	B	GHM		STORAGE	4/A6.4	5/A6.4	6/A6.4		
125A	3'-0" x 7'-0"	A	GHM	B	GHM		SUPPLY	4/A6.4	5/A6.4	6/A6.4		
125B	3'-0" x 7'-0"	A	GHM	B	GHM		SUPPLY	4/A6.4	5/A6.4	6/A6.4		
126	3'-0" x 7'-0"	SF-2	S.F.	SF-G	S.F.			13/A6.4	3/A6.5			
127A	3'-0" x 7'-0"	B	WOOD	SF-Z	S.F.		MEDIC OFFICE	1/A6.4	2/A6.4	3/A6.4		
128	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 1	1/A6.4	2/A6.4	3/A6.4		
129	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 2	1/A6.4	2/A6.4	3/A6.4		
130	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
131A	3'-0" x 7'-0"	B	WOOD	SF-Z	S.F.		SUPPRESSION OFF.	1/A6.4	2/A6.4	3/A6.4		
132	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 3	1/A6.4	2/A6.4	3/A6.4		
133	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 4	1/A6.4	2/A6.4	3/A6.4		
134	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
135	3'-0" x 7'-0"	B	WOOD	C	H.M.		JAN.	1/A6.4	2/A6.4	3/A6.4		
136	3'-0" x 7'-0"	B	WOOD	C	H.M.		BATTALION CHIEF	1/A6.4	2/A6.4	3/A6.4		
137	2'-6" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
138	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
139	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
140	3'-0" x 7'-0"	B	WOOD	C	H.M.	45 MINUTES		1/A6.4	2/A6.4	3/A6.4		
141	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 6	1/A6.4	2/A6.4	3/A6.4		
142	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 7	1/A6.4	2/A6.4	3/A6.4		
143	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 8	1/A6.4	2/A6.4	3/A6.4		
144	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 9	1/A6.4	2/A6.4	3/A6.4		
145	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 10	1/A6.4	2/A6.4	3/A6.4		
146	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 11	1/A6.4	2/A6.4	3/A6.4		
147	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 12	1/A6.4	2/A6.4	3/A6.4		
148	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 13	1/A6.4	2/A6.4	3/A6.4		
149	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 14	1/A6.4	2/A6.4	3/A6.4		
150	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 15	1/A6.4	2/A6.4	3/A6.4		
151	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 16	1/A6.4	2/A6.4	3/A6.4		
152	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 17	1/A6.4	2/A6.4	3/A6.4		
153	3'-0" x 7'-0"	B	WOOD	C	H.M.	45 MINUTES		1/A6.4	2/A6.4	3/A6.4		
155	3'-0" x 7'-0"	B	WOOD	C	H.M.		STORAGE	1/A6.4	2/A6.4	3/A6.4		
156A	3'-0" x 7'-0"	B	WOOD	C	GHM		SHOWERS	1/A6.4	2/A6.4	3/A6.4		
156B	3'-0" x 7'-0"	B	WOOD	C	GHM		TOILETS / SHOWERS	1/A6.4	2/A6.4	3/A6.4		
156D	2'-6" x 7'-0"	C	FIBERGLASS	D	FIBERGLASS			1/A6.4	2/A6.4	3/A6.4		
156E	2'-6" x 7'-0"	C	FIBERGLASS	D	FIBERGLASS			1/A6.4	2/A6.4	3/A6.4		
156F	2'-6" x 7'-0"	C	FIBERGLASS	D	FIBERGLASS			1/A6.4	2/A6.4	3/A6.4		
156G	3'-0" x 7'-0"	C	FIBERGLASS	D	FIBERGLASS			1/A6.4	2/A6.4	3/A6.4		
156H	2'-6" x 7'-0"	C	FIBERGLASS	D	FIBERGLASS			1/A6.4	2/A6.4	3/A6.4		
156I	2'-6" x 7'-0"	C	FIBERGLASS	D	FIBERGLASS			1/A6.4	2/A6.4	3/A6.4		
156J	3'-0" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
156K	2'-6" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
156L	2'-6" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
156M	2'-6" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
156N	3'-0" x 7'-0"	D	WOOD	D	GHM			1/A6.4	9/A6.5	3/A6.4		
156O	2'-6" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
156P	2'-6" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
156Q	2'-6" x 7'-0"	D	WOOD	D	GHM			1/A6.4	2/A6.4	3/A6.4		
157	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 18	1/A6.4	2/A6.4	3/A6.4		
158	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 19	1/A6.4	2/A6.4	3/A6.4		
159	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 20	1/A6.4	2/A6.4	3/A6.4		
160	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 21	1/A6.4	2/A6.4	3/A6.4		
161	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 22	1/A6.4	2/A6.4	3/A6.4		
162	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 23	1/A6.4	2/A6.4	3/A6.4		
163	3'-0" x 7'-0"	B	WOOD	C	H.M.		BUNK 24	1/A6.4	2/A6.4	3/A6.4		
164	3'-0" x 7'-0"	B	WOOD	C	H.M.		UNI-SEX TOILET	1/A6.4	2/A6.4	3/A6.4		
165	3'-0" x 7'-0"	B	WOOD	C	H.M.	45 MINUTES	UNI-SEX TOILET	1/A6.4	2/A6.4	3/A6.4		
166	PR 3'-0" x 7'-0"	E	H.M.	A	H.M.	20 MINUTES	TRAINING	7/A6.5	8/A6.5			

DOOR SCHEDULE												
MARK	DOOR			FRAME		FIRE RATING	SIGNAGE	DETAILS			REMARKS	
	SIZE	TYPE	MATERIAL	TYPE	MATERIAL			HEAD	JAMB	SILL		
167	3'-0" x 7'-0"	A	H.M.	B	H.M.		STORAGE	4/A6.4	5/A6.4	6/A6.4		
168	3'-0" x 7'-0"	G	GHM	B	GHM			5/A6.5	6/A6.5			
169	3'-0" x 7'-0"	B	WOOD	C	H.M.		STORAGE	1/A6.4	2/A6.4	3/A6.4		
170	3'-6" x 7'-0"	B	GHM	B	GHM		ELECTRICAL	5/A6.5	6/A6.5		2	
171	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
172	PR 3'-0" x 7'-0"	E	H.M.	G	H.M.		MECHANICAL	1/A6.4	2/A6.4	3/A6.4		
173A	3'-0" x 7'-0"	SF-2	S.F.	SF-H	S.F.			1/A6.5	4/A6.5			
173B	3'-0" x 7'-0"	SF-2	S.F.	SF-J	S.F.			21/A6.4	22/A6.4		1	
174A	3'-0" x 7'-0"	B	WOOD	C	H.M.		MEETING ROOM	1/A6.4	2/A6.4	3/A6.4		
174B	3'-0" x 7'-0"	B	WOOD	C	H.M.		MEETING ROOM	1/A6.4	2/A6.4	3/A6.4		
175	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
176A	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
176B	3'-0" x 7'-0"	B	WOOD	C	H.M.		OFFICE	1/A6.4	2/A6.4	3/A6.4		
177A	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
177B	3'-0" x 7'-0"	B	WOOD	C	H.M.			1/A6.4	2/A6.4	3/A6.4		
178	3'-0" x 7'-0"	B	WOOD	C	H.M.		UNI-SEX TOILET	1/A6.4	2/A6.4	3/A6.4		
180	PR 3'-0" x 7'-0"	E	WOOD	G	H.M.		STORAGE	1/A6.4	2/A6.4	3/A6.4		
181	3'-0" x 7'-0"	A	GHM	B	GHM		MECHANICAL	7/A6.4	8/A6.4	9/A6.4	2	

REMARKS:

- GLAZING WILL BE G6 AT THESE DOORS AND FRAMES
- PROVIDE SIGNAGE "NO BUILDING ACCESS"

ABBREVIATIONS:

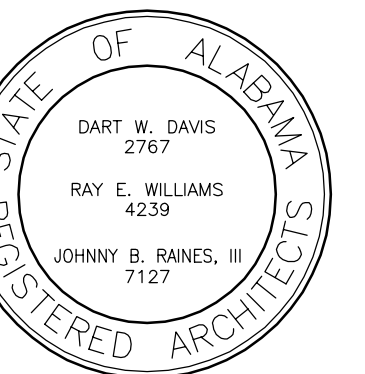
- FRP FIBERGLASS REINFORCED PANEL
- GHM GALVANIZED HOLLOW METAL, PAINTED
- H.M. HOLLOW METAL, PAINTED
- PR PAIR OF DOORS
- S.F. STOREFRONT - ANODIZED ALUMINUM
- WOOD WOOD, PAINTED OR STAINED

Barganier
Davis
Williams
Architects
Associated



624 South McDonough Street
Montgomery, AL 36104

phone: 334.834.2038
www.bdwarchitects.com



NEW FIRE STATION NO. 10
 FOR
 THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21

BDW Project No. 2021-118

Drawn By: BDW

Date:

Scale: AS NOTED

Drawing Title:

DOOR
SCHEDULE

Sheet No:

A6.1

CONFORMANCE
DOCUMENTS

GENERAL NOTES

- REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF FINISH MATERIALS.

GLAZING SCHEDULE

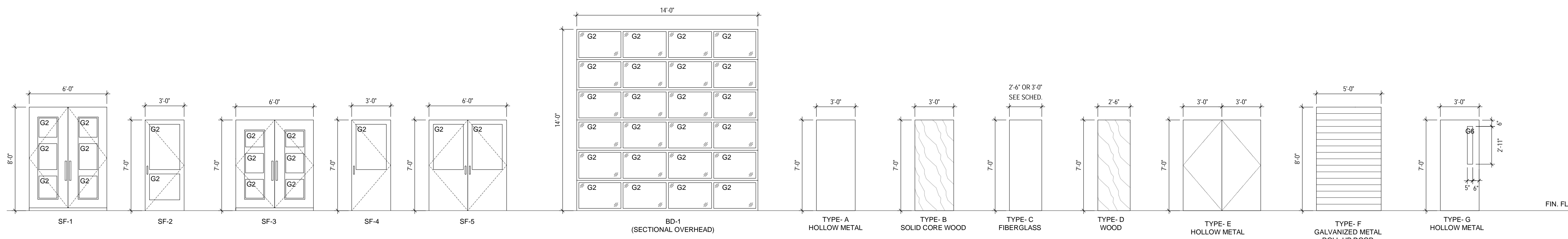
- G1 1" TINTED INSULATED GLAZING (LOW E)
- G2 1" TINTED TEMPERED & INSULATED GLAZING (LOW E)
- G3 1" 50% TINTED INSULATED GLAZING
- G4 1" INSULATED IMPACT RESISTANT (POLYCARBONATE)
- G5 SPANDREL GLASS
- G6 1/4" CLEAR TEMPERED GLASS
- G7 1/4" CLEAR PLATE GLASS

DOOR HARDWARE

REFER TO SPECIFICATION SECTION 087100

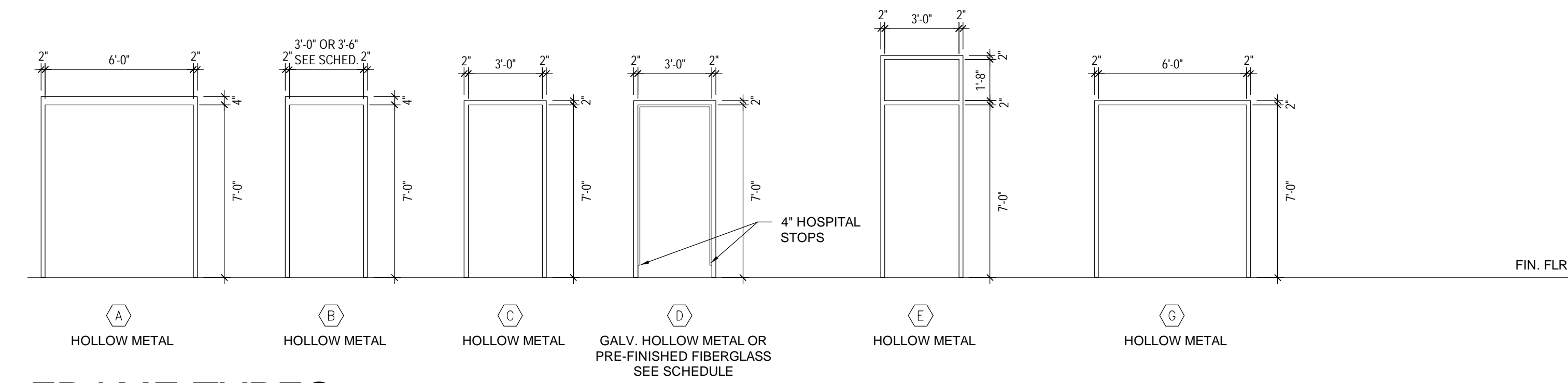
DOOR & WINDOW NOTES

- INSTALL FIRE TREATED WOOD BLOCKING AT ALL WALL MOUNTED DOOR STOP LOCATIONS.
- ALL THUMB TURNS SHALL BE LEVER TYPE.
- EGRESS DOORS: ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE SIDE FROM WHICH EGRESS WILL BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- ALL INTERIOR WOOD DOORS TO BE FACTORY STAINED UNLESS NOTED OTHERWISE.
- ALL HOLLOW METAL DOORS TO BE PAINTED, UNLESS NOTED OTHERWISE.
- ALL ALUMINUM DOORS TO BE ANODIZED.
- GLAZING CONTRACTOR TO VERIFY DOOR & GLAZED FRAME SIZES IN THE FIELD, TYPICAL ALL LOCATIONS.
- GLAZING NOTES: GLAZING CONTRACTOR TO VERIFY COMPLIANCE WITH ALL APPLICABLE DESIGN STANDARDS AND GOVERNING CODES. IN REGARDS TO WIND LOADS, ETC. ALL GLAZING SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS OF CODES HAVING JURISDICTION. PROVIDE TEMPERED GLASS IN ALL LOCATIONS REQUIRED BY CODE, TYPICAL ALL LOCATIONS.
- HARDWARE SUPPLIER SHALL CONSULT OWNER FOR KEYING AND LOCK FUNCTIONS.
- HARDWARE SUPPLIER TO PROVIDE ALL NECESSARY ITEMS FOR A COMPLETE & FUNCTIONAL DOOR OPENING ASSEMBLY.
- COORDINATE CARD READER AND DOOR CONTROL LOCATIONS WITH OWNER.
- PROVIDE SOLID SURFACE WINDOW SILLS & APRONS AT ALL WINDOWS OR STOREFRONT THAT DO NOT EXTEND TO FLOOR.



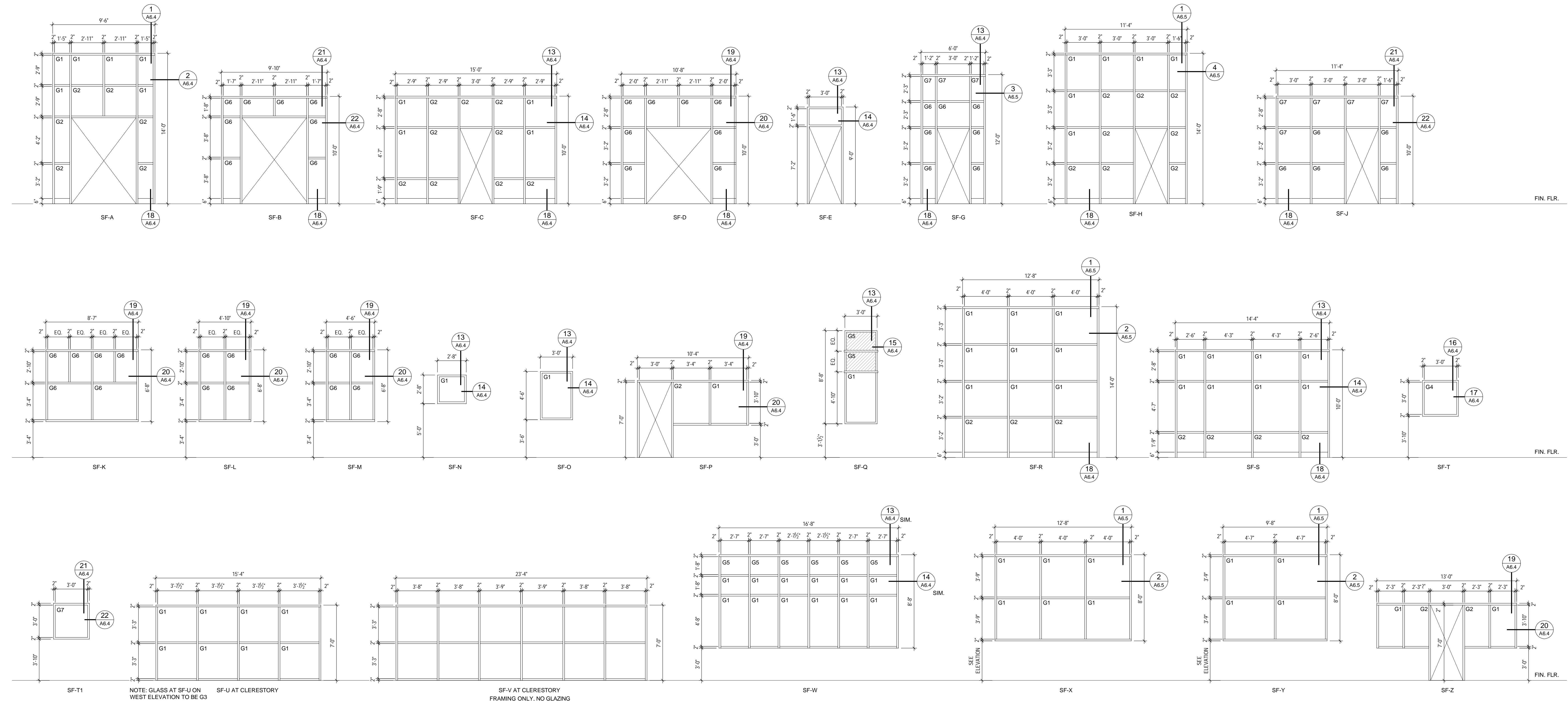
DOOR TYPES

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



FRAME TYPES

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



STOREFRONT TYPES

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

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED

Drawing Title:

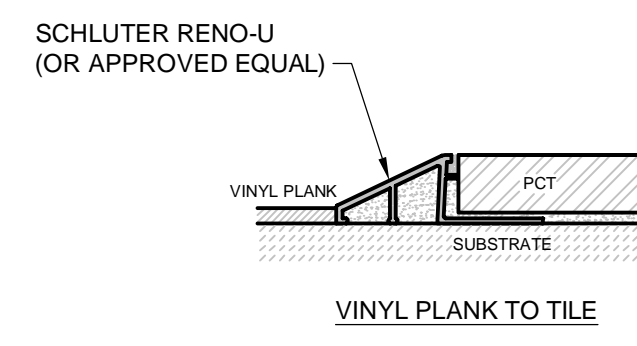
DOOR AND WINDOW ELEVATIONS

Sheet No:

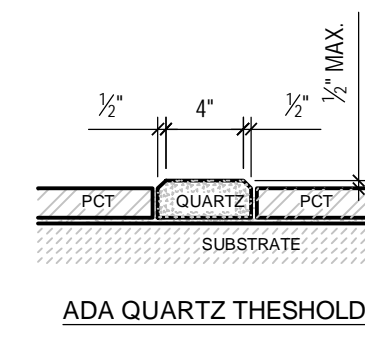
A6.2

CONFORMANCE DOCUMENTS

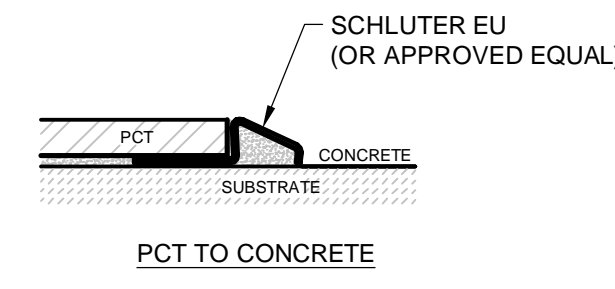
FLOOR MATERIAL TRANSITION DETAILS



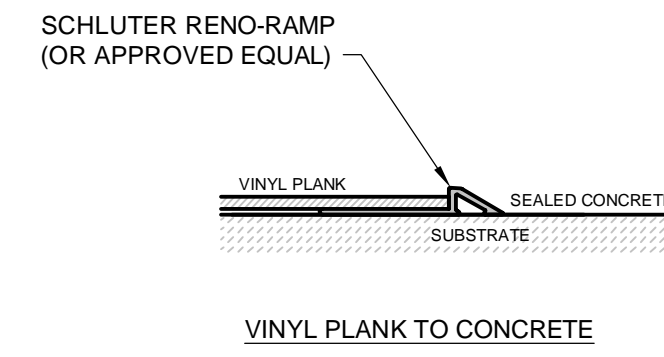
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DETAIL



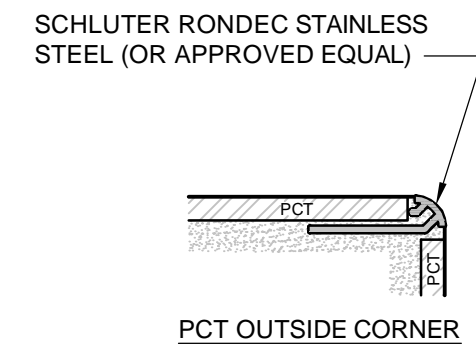
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DETAIL



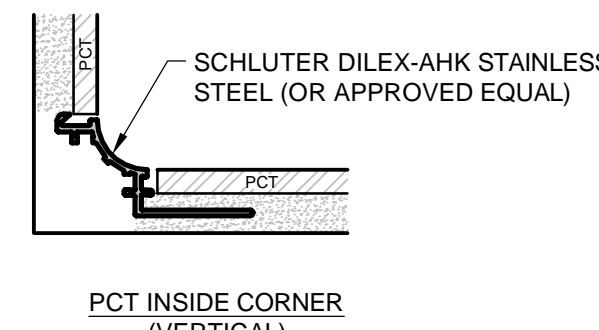
3
A6.3
SCALE: NONE
DETAIL



4
A6.3
SCALE: NONE
DETAIL



5
A6.3
SCALE: NONE
DETAIL



6
A6.3
SCALE: NONE
DETAIL

GENERAL NOTES

- ALL EXPOSED CONCRETE MASONRY UNITS TO BE PAINTED.
- ALL EXPOSED GYPSUM BOARD TO BE PAINTED.
- ALL FLOOR TRANSITIONS BY:
SCHLUTER-SYSTEMS, L.P.
194 PLEASANT RIDGE ROAD PLATTSBURGH, NEW YORK 12901
PHONE 888-472-4588 WWW.SCHLUTER.COM
- ALL SCHLUTER TRIM TO BE ALUMINUM.
- VERIFY ALL MATERIAL THICKNESSES PRIOR TO ORDERING TRANSITIONS. ALL THRESHOLDS MUST BE ADA COMPLIANT.
- ALL EXPOSED CEILINGS SHALL BE PAINTED, INCLUDING STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS.
- GYPSUM BOARD CEILINGS SHALL BE SUSPENDED FROM STRUCTURE ABOVE WITH METAL SUSPENSION SYSTEMS.
- ALL GYPSUM BOARD AT WET LOCATIONS (TOILETS, SHOWERS, BATH & JANITOR) SHALL BE MOLD & MOISTURE RESISTANT. REFER TO REFLECTED CEILING PLAN, SHEET A2.1.

FINISH SCHEDULE

RM. NO.	RM. NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
101	PUBLIC LOBBY	PCT	RUBBER	GB	ACOUSTICAL	3
102	TOILET	PCT	PCT	GB / PCT	GB	
103	VESTIBULE	LVT	RUBBER	GB / MP (WHERE NOTED)	GB / EXPOSED	
104	STORAGE	LVT	RUBBER	GB	GB	3
105	TOILET	PCT	PCT	GB / PCT	GB	
106	LOUNGE	LVT	RUBBER	GB / MP (WHERE NOTED)	ACOUSTICAL	
107	DINING	LVT	RUBBER	GB / MP (WHERE NOTED)	GB / ACOUSTICAL	
108	KITCHEN	LVT	RUBBER	GB / MP	GB / ACOUSTICAL	
109	COVERED WALK	SEALED CONCRETE	-	-	METAL SOFFIT	
110	PANTRY	LVT	RUBBER	GB	ACOUSTICAL	
111	I.T.	LVT	RUBBER	GB	ACOUSTICAL	
112	COMMAND WATCH	LVT	RUBBER	CMU / GB	ACOUSTICAL	
113	APPARATUS BAY	EPOXY COATING	EPOXY COATING	CMU / GB / MP	EXPOSED	
114	BOOTS	EPOXY COATING	EPOXY COATING	CMU	EXPOSED	
115	EXTRACTOR / LAUNDRY	EPOXY COATING	EPOXY COATING	CMU	EXPOSED	
116	WASH ROOM	EPOXY COATING	EPOXY COATING	CMU	EXPOSED	
117	TOILET	PCT	PCT	CMU	ACOUSTICAL	2
118	TOILET	PCT	PCT	CMU	ACOUSTICAL	2
119	CASCADE ROOM	EPOXY COATING	EPOXY COATING	CMU	EXPOSED	
120	STORAGE	SEALED CONCRETE	NONE	CMU	GB	4
121	STORAGE	SEALED CONCRETE	NONE	CMU	GB	
122	NOT USED					
123	NOT USED					
124	NOT USED					
125	STORAGE	LVT	RUBBER	CMU	GB	4
126	CORRIDOR 1	LVT	RUBBER	GB / MP (WHERE NOTED)	GB	
127A	MEDIC OFFICE	LVT	RUBBER	GB	ACOUSTICAL	
127B	HALL	LVT	RUBBER	GB	ACOUSTICAL	
128	BUNK 1	LVT	RUBBER	GB	ACOUSTICAL	
129	BUNK 2	LVT	RUBBER	GB	ACOUSTICAL	
130	BATH	PCT	PCT	GB / PCT	ACOUSTICAL	1, 2
131A	SUPPRESSION OFFICE	LVT	RUBBER	GB	ACOUSTICAL	
131B	HALL	LVT	RUBBER	GB	ACOUSTICAL	
132	BUNK 3	LVT	RUBBER	GB	ACOUSTICAL	
133	BUNK 4	LVT	RUBBER	GB	ACOUSTICAL	
134	BATH	PCT	PCT	GB / PCT	ACOUSTICAL	1, 2
135	STORAGE	SEALED CONCRETE	RUBBER	GB / PCT	ACOUSTICAL	
136	BATTALION CHIEF	LVT	RUBBER	GB	ACOUSTICAL	
137	STORAGE	PCT	PCT	GB / PCT	ACOUSTICAL	
138	BUNK 5	LVT	RUBBER	GB	ACOUSTICAL	
139	BATH	PCT	PCT	GB / PCT	ACOUSTICAL	1, 2
140	CORRIDOR 2	LVT	RUBBER	GB / MP (WHERE NOTED)	ACOUSTICAL	
141	BATT. CHIEF / BUNK 6	LVT	RUBBER	GB	ACOUSTICAL	
142	BUNK 7	LVT	RUBBER	GB	ACOUSTICAL	
143	BUNK 8	LVT	RUBBER	GB	ACOUSTICAL	
144	BUNK 9	LVT	RUBBER	GB	ACOUSTICAL	
145	BUNK 10	LVT	RUBBER	GB	ACOUSTICAL	
146	BUNK 11	LVT	RUBBER	GB	ACOUSTICAL	
147	BUNK 12	LVT	RUBBER	GB	ACOUSTICAL	
148	BUNK 13	LVT	RUBBER	GB	ACOUSTICAL	
149	BUNK 14	LVT	RUBBER	GB	ACOUSTICAL	
150	BUNK 15	LVT	RUBBER	GB	ACOUSTICAL	
151	BUNK 16	LVT	RUBBER	GB	ACOUSTICAL	
152	BUNK 17	LVT	RUBBER	GB	ACOUSTICAL	
153	CORRIDOR 3	LVT	RUBBER	GB / MP (WHERE NOTED)	ACOUSTICAL	
154	CORRIDOR 4	LVT	RUBBER	GB / MP (WHERE NOTED)	GB	
155	STORAGE	LVT	RUBBER	GB	ACOUSTICAL	
156A	COMMON BATH	RESINOUS	RESINOUS	GB / PCT	GB	
156B	COMMON BATH	RESINOUS	RESINOUS	GB / PCT	ACOUSTICAL	
157	BUNK 18	LVT	RUBBER	GB	ACOUSTICAL	
158	BUNK 19	LVT	RUBBER	GB	ACOUSTICAL	
159	BUNK 20	LVT	RUBBER	GB	ACOUSTICAL	
160	BUNK 21	LVT	RUBBER	GB	ACOUSTICAL	
161	BUNK 22	LVT	RUBBER	GB	ACOUSTICAL	
162	BUNK 23	LVT	RUBBER	GB	ACOUSTICAL	
163	BUNK 24	LVT	RUBBER	GB	ACOUSTICAL	
164	BATH	PCT	PCT	GB / PCT	ACOUSTICAL	1, 2
165	BATH	PCT	PCT	GB / PCT	ACOUSTICAL	1, 2
166	TRAINING ROOM	LVT	RUBBER	CMU - PAINTED	ACOUSTICAL	
167	EQUIP. STORAGE	LVT	RUBBER	GB / CMU	ACOUSTICAL	
168	CORRIDOR 5	LVT	RUBBER	GB / MP (WHERE NOTED)	ACOUSTICAL	
169	STORAGE	LVT	RUBBER	GB	ACOUSTICAL	
170	ELECT.	SEALED CONCRETE	RUBBER	GB / CMU	EXPOSED	
171	I.T.	SEALED CONCRETE	RUBBER	GB	ACOUSTICAL	
172	MECH. / JAN.	SEALED CONCRETE	RUBBER	GB	ACOUSTICAL	
173	VESTIBULE	LVT	RUBBER	GB / MP	GB	
174	MEETING / CLASSROOM	LVT	RUBBER	GB / MP (WHERE NOTED)	EXPOSED	
175	OFFICE	LVT	RUBBER	GB	ACOUSTICAL	
176	OFFICE	LVT	RUBBER	GB	ACOUSTICAL	
177	VEST.	LVT	RUBBER	GB	GB	
178	TOILET	PCT	PCT	GB / PCT	GB	3
179	BREAK	PCT	PCT	GB / PCT	GB	
180	STORAGE	LVT	RUBBER	GB	ACOUSTICAL	
181	MECH.	SEALED CONCRETE	-	CMU	EXPOSED	

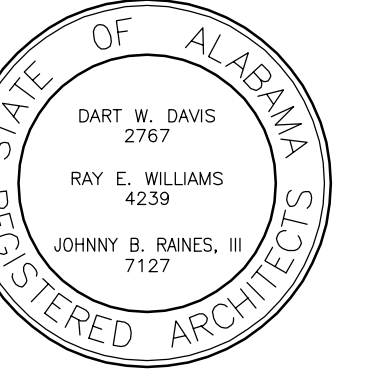
ABBREVIATIONS	REMARKS
ACOUSTICAL	ACOUSTICAL CEILING TILES IN METAL GRID
CMU	CONCRETE MASONRY UNITS, PAINTED OR SEALED
FRP	FIBERGLASS REINFORCED PANELS
GB	GYPSUM BOARD, PAINTED
LVT	LUXURY VINYL TILE
MP	PRE-FINISHED METAL PANELS
MRGB	MOISTURE RESISTANT GYPSUM BOARD
PCT	PORCELAIN CERAMIC TILE
RESINOUS	RESINOUS FLOORING SYSTEM & BASE
RUBBER	COVE RUBBER BASE
SEALED	CONCRETE SEALER

REMARKS
1. FULL HEIGHT 12" x 24" PCT AT PLUMBING WALL. OTHER WALLS TO BE PAINTED GYPSUM BOARD.
2. FULL HEIGHT 12" x 24" PCT AT SHOWER WALL AND 2' x 2' MOSAIC TILE AT SHOWER FLOORS.
3. PCT AT ALL FOUR WALLS.
4. PROVIDE MOLD & MOISTURE RESISTANT GYPSUM BOARD.

Barganier
Davis
Williams
Architects
Associated



624 South McDonough Street
Montgomery, AL 36104
phone: 334.834.2038
www.bdwarchitects.com



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

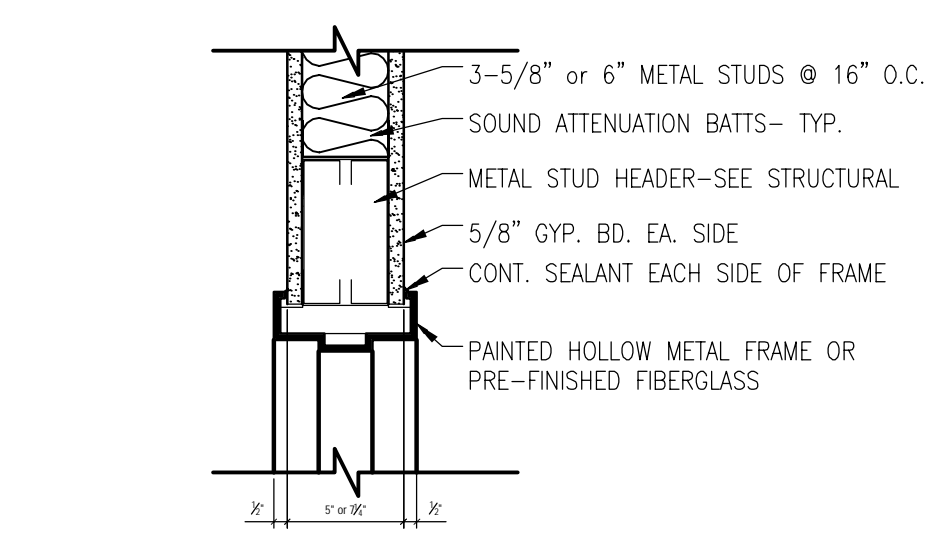
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

ROOM FINISH
SCHEDULE

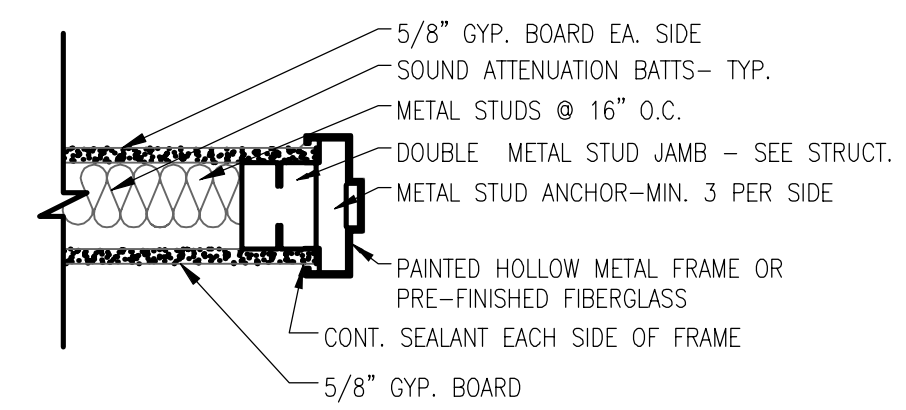
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A6.3

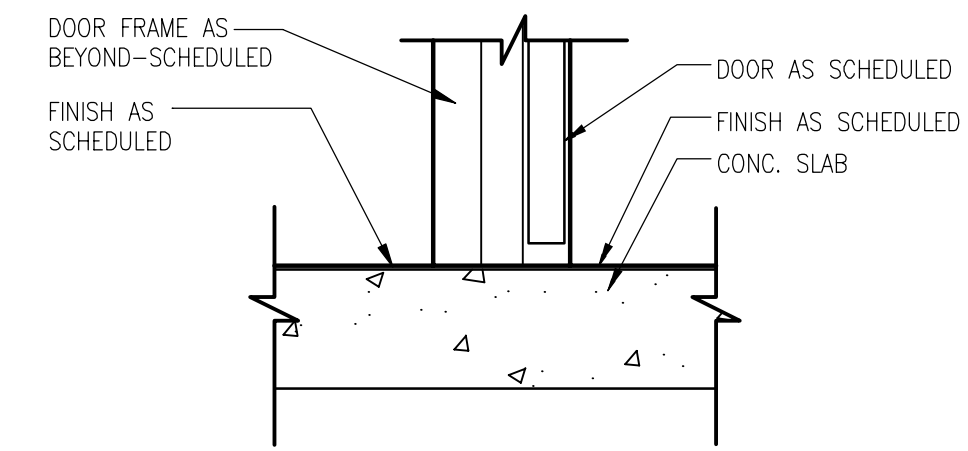
CONFORMANCE
DOCUMENTS



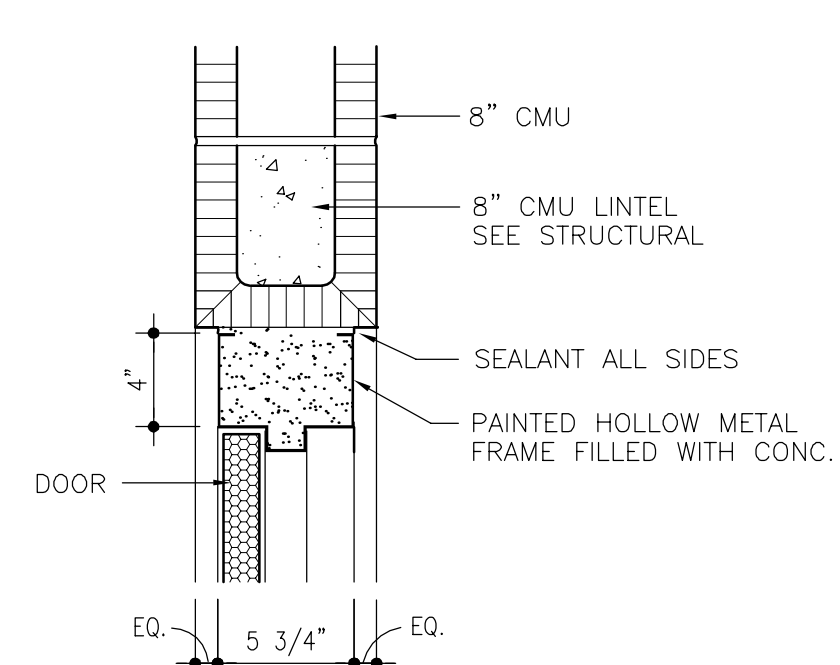
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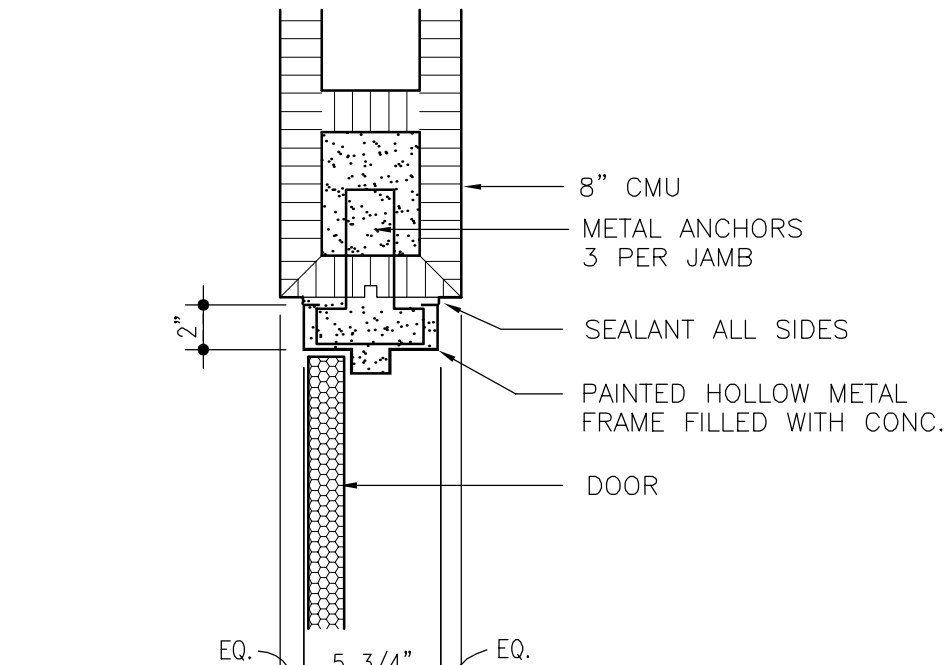
2 JAMB DETAIL
A6.4 SCALE: 1 1/2"=1'-0"



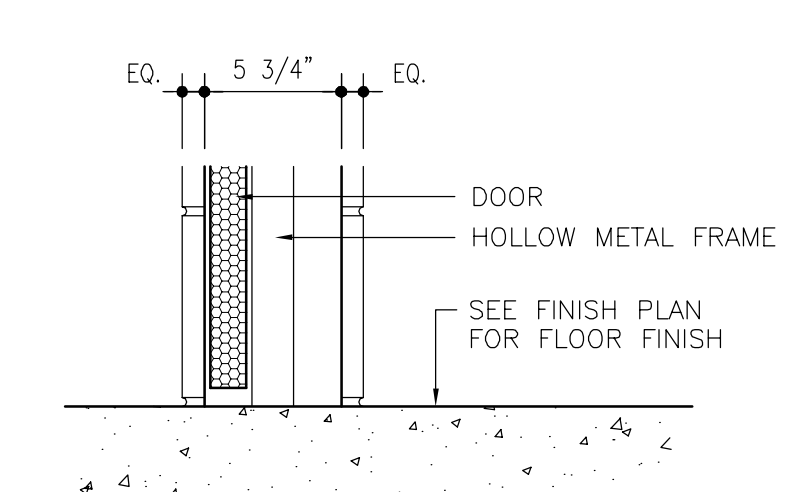
3 SILL DETAIL
A6.4 SCALE: 1 1/2"=1'-0"



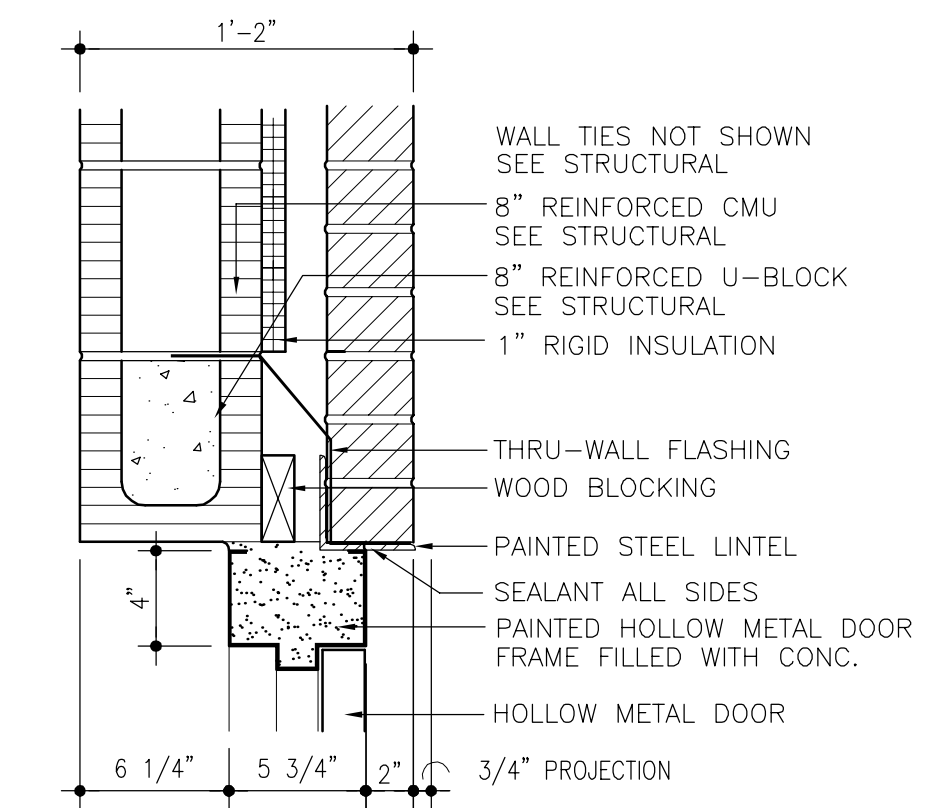
4 HEAD DETAIL
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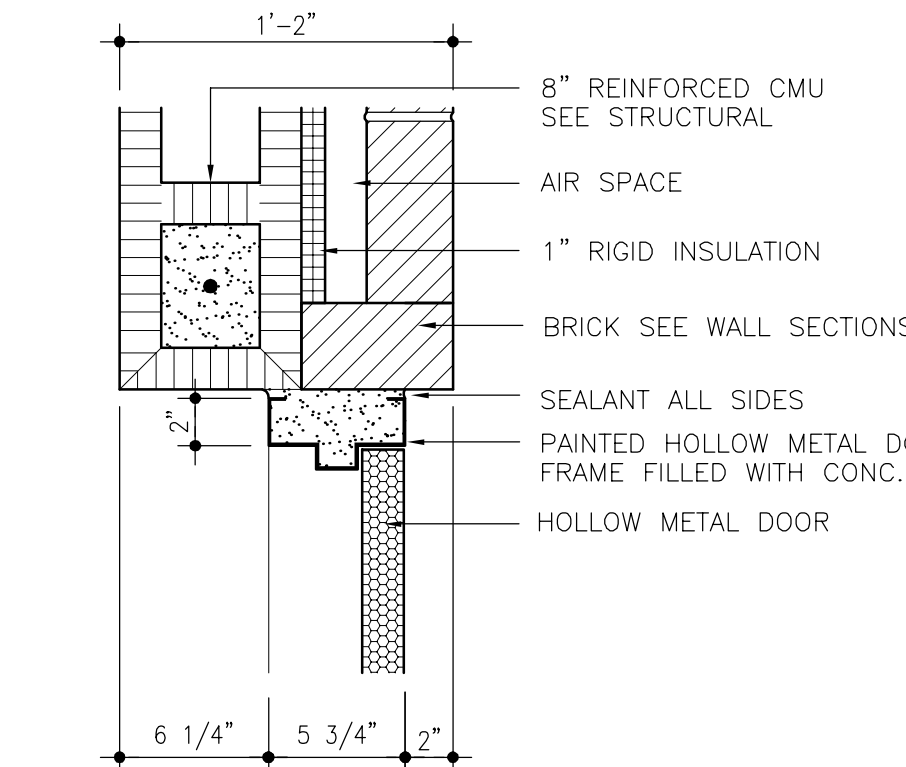
5 JAMB DETAIL
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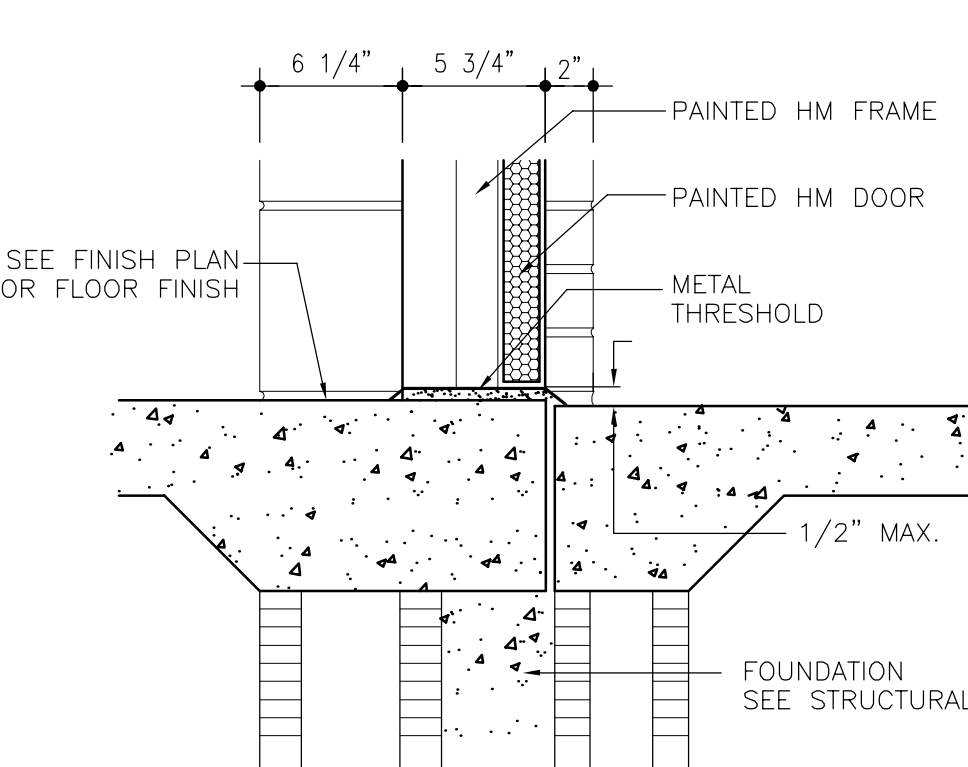
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A6.4 SCALE: 1 1/2"=1'-0"



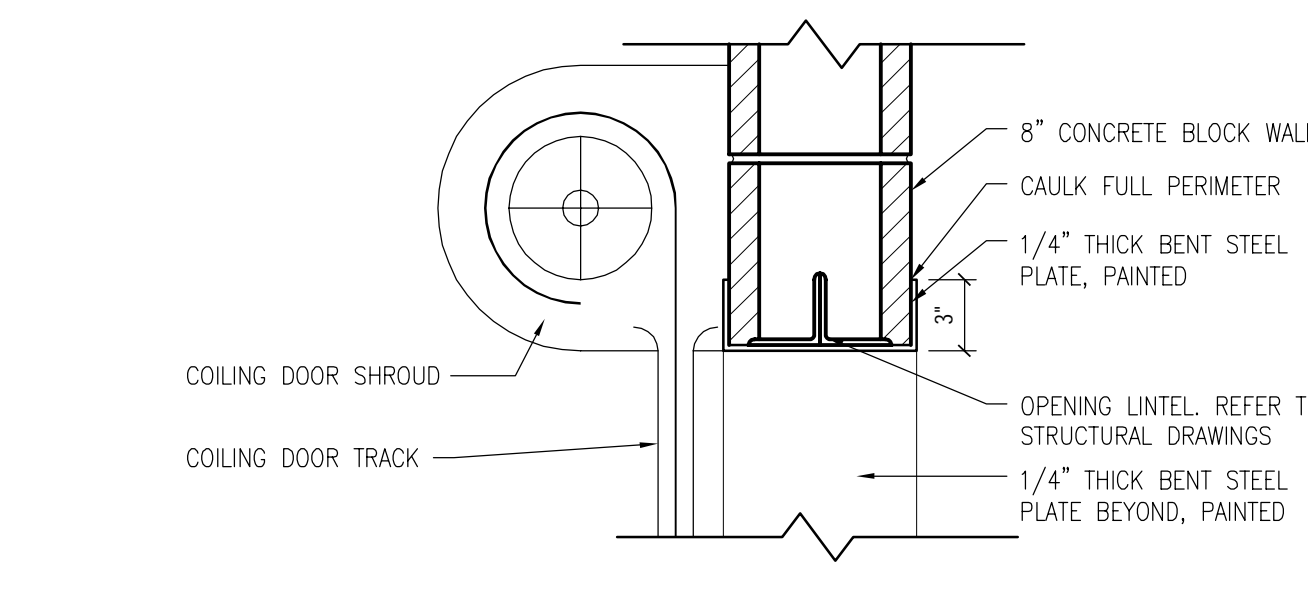
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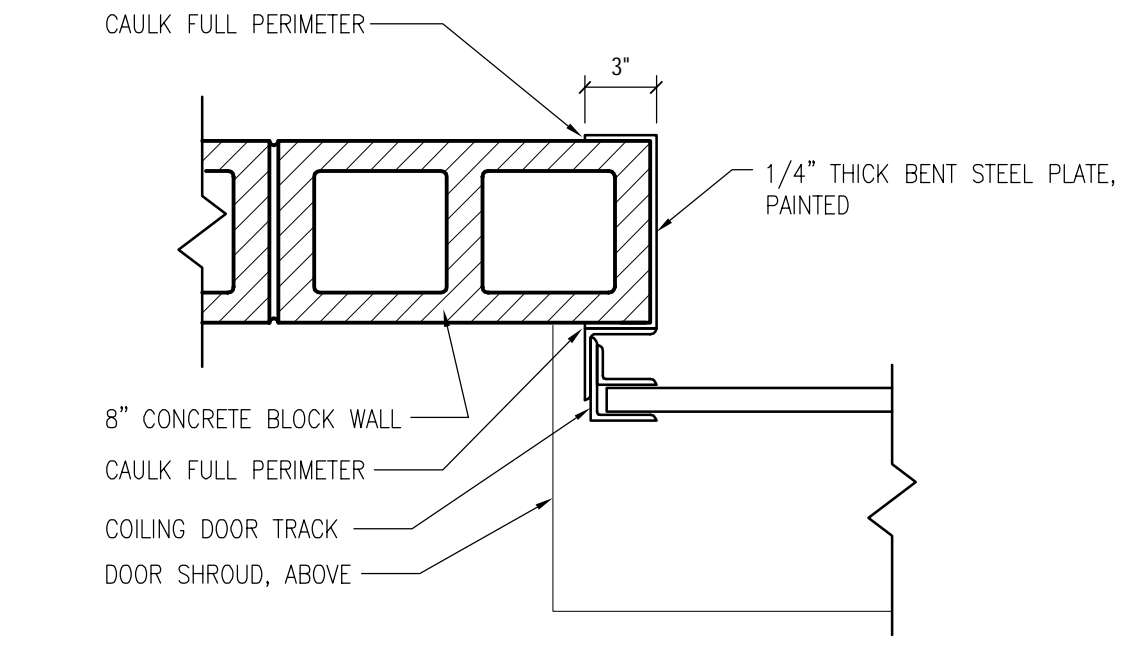
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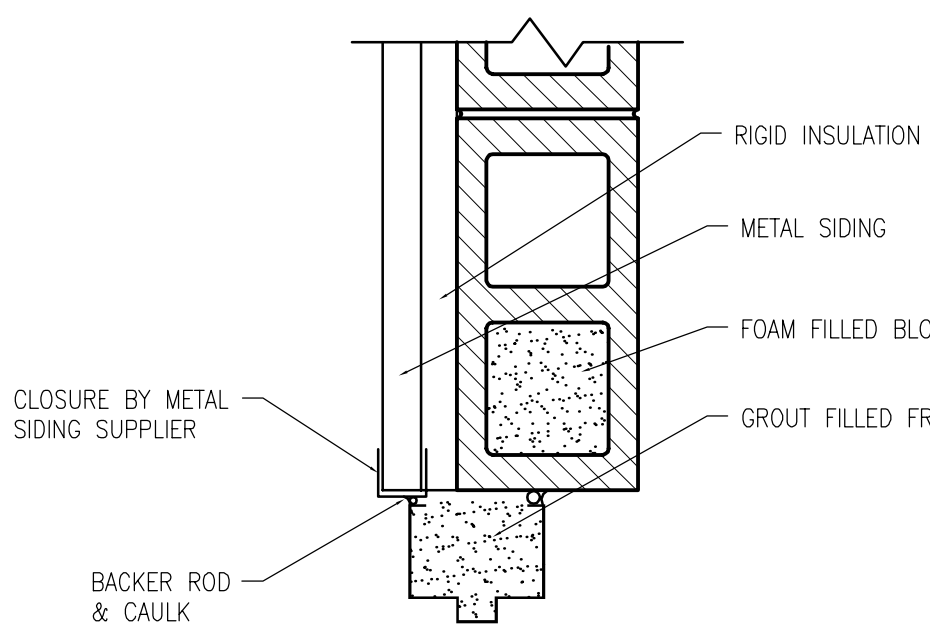
9 SILL DETAIL
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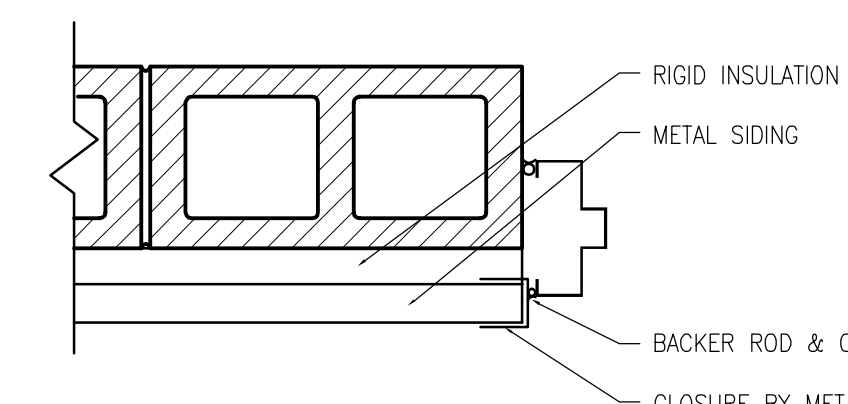
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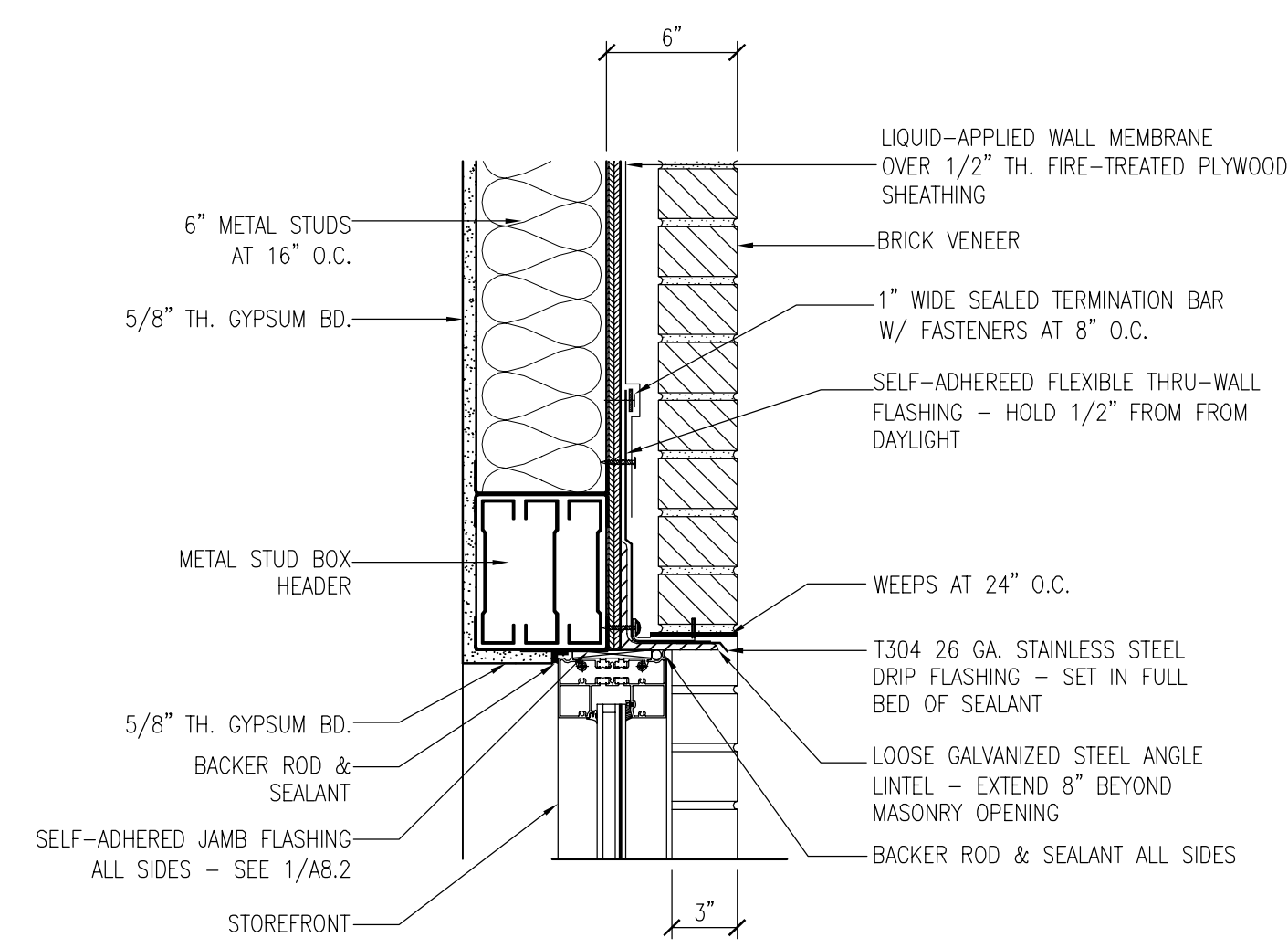
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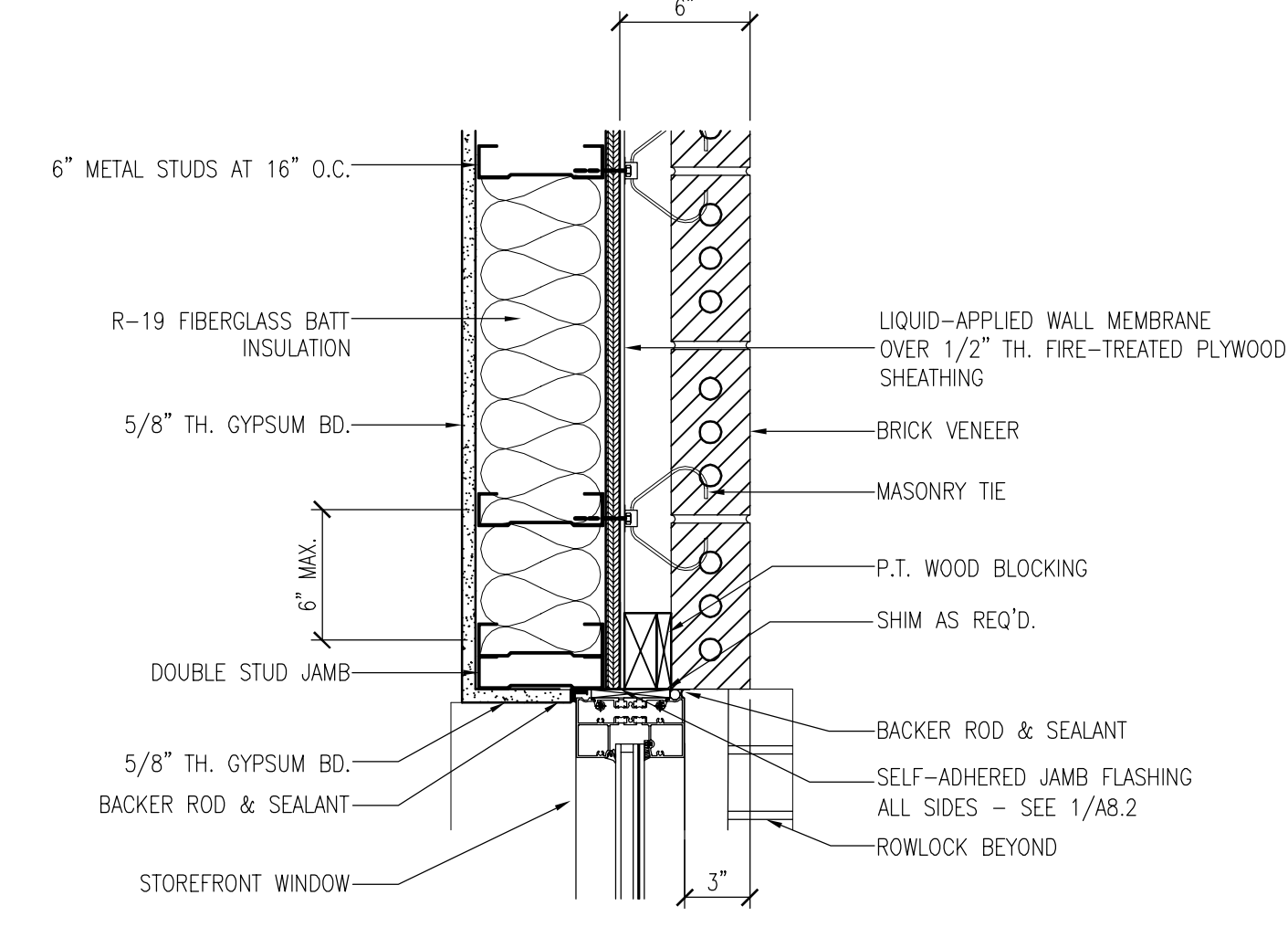
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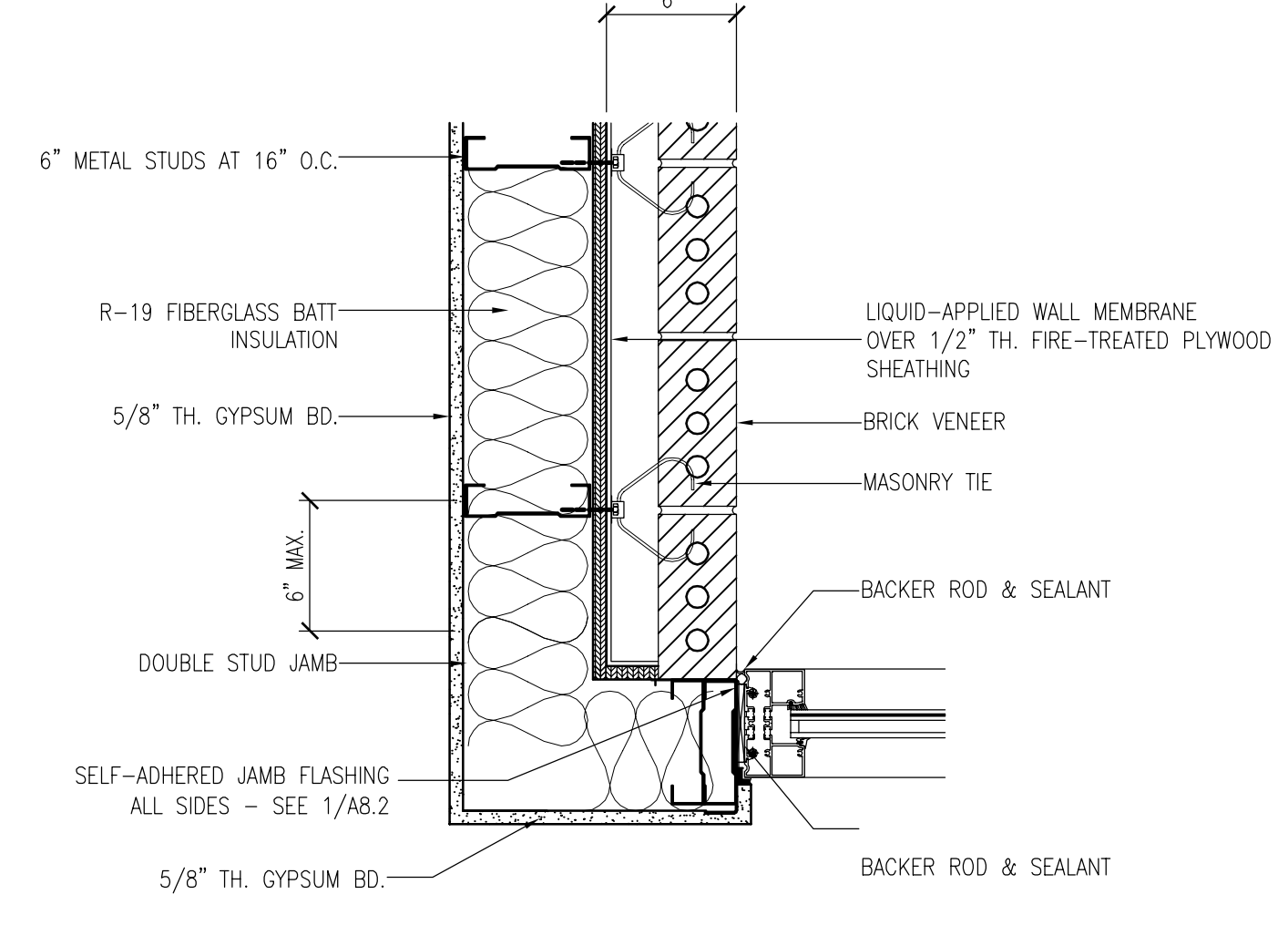
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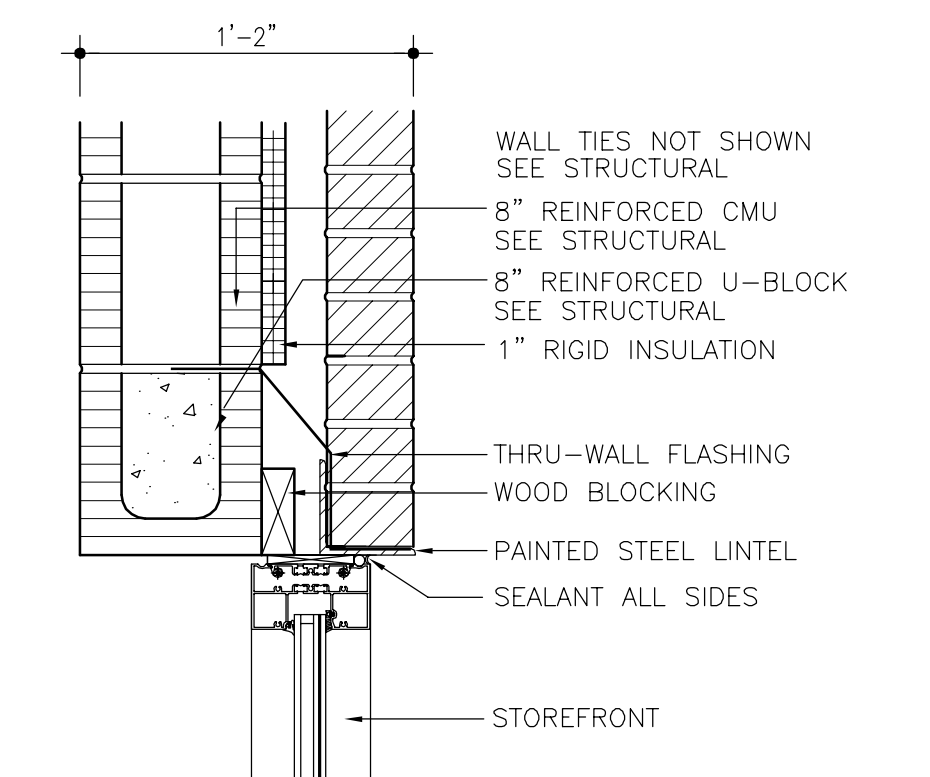
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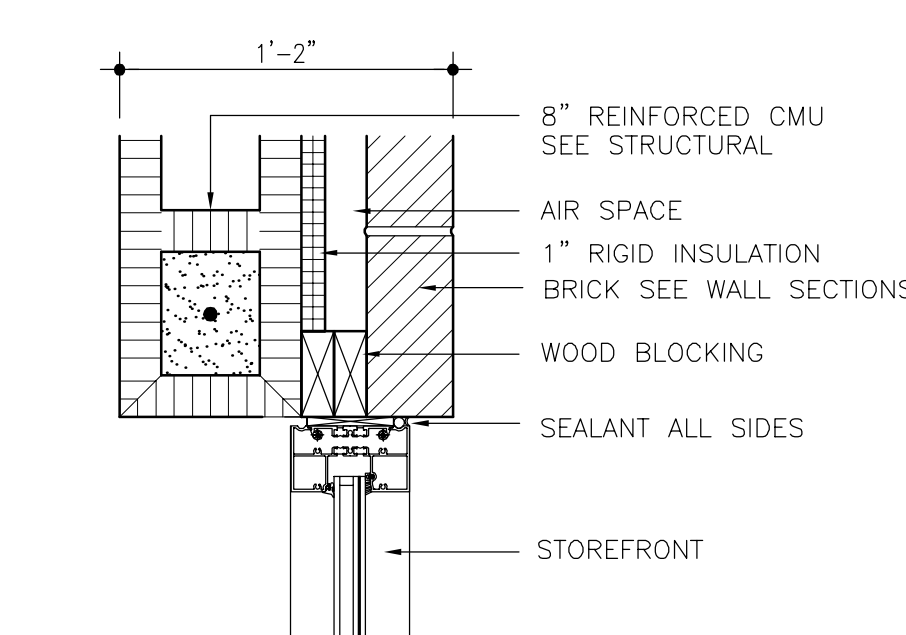
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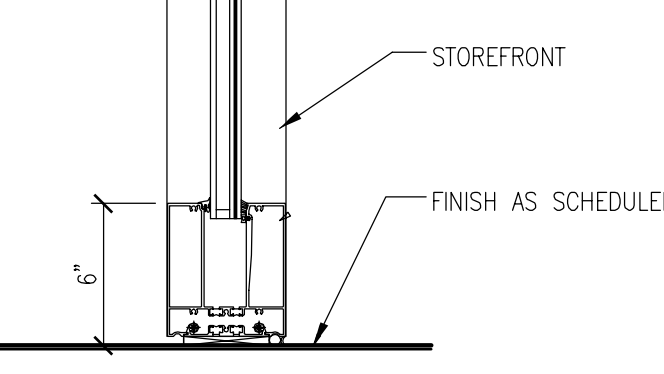
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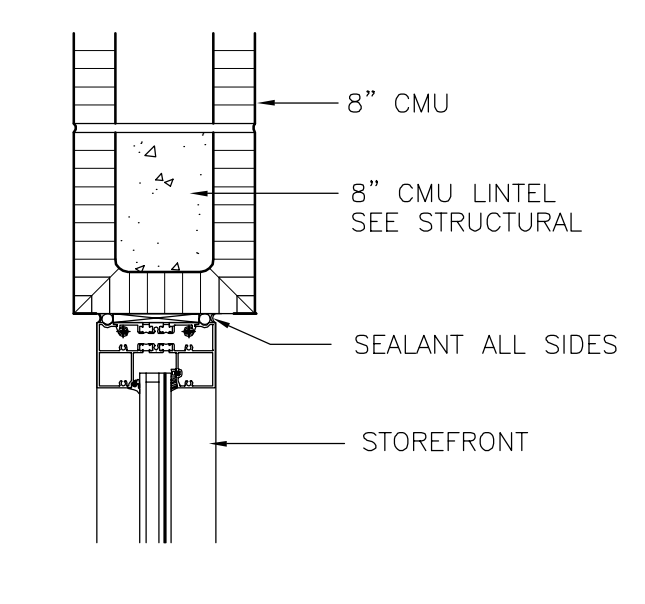
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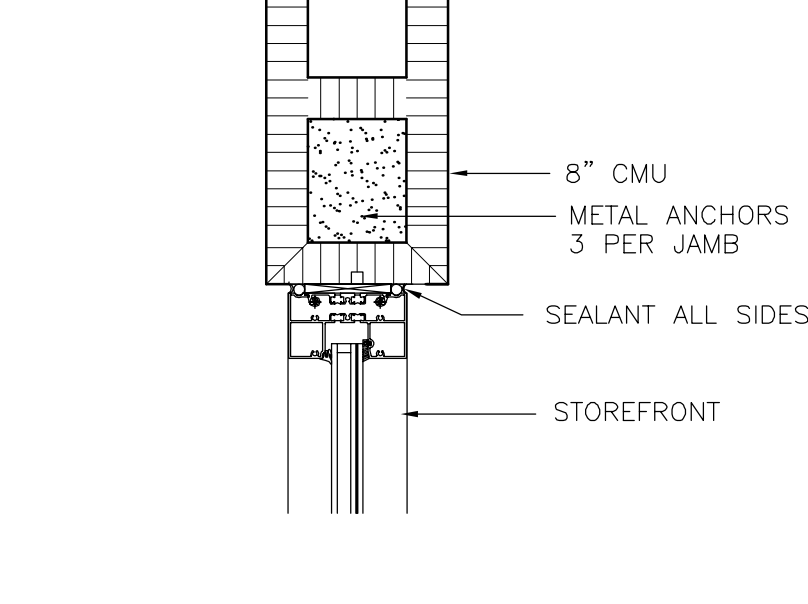
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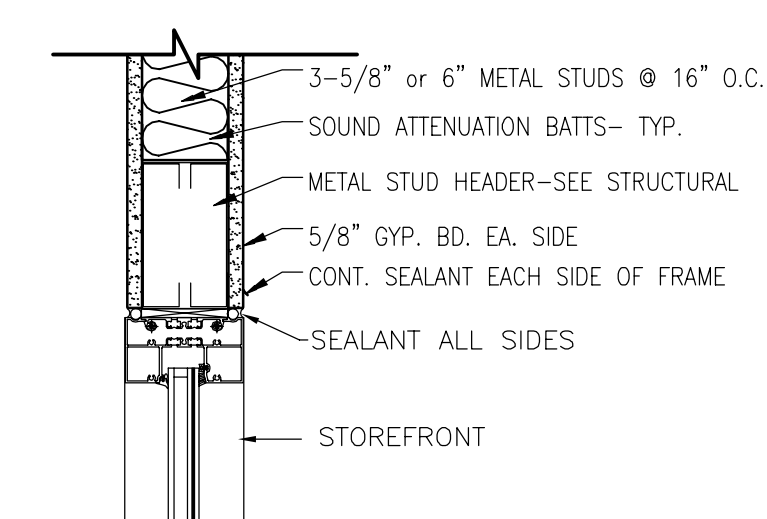
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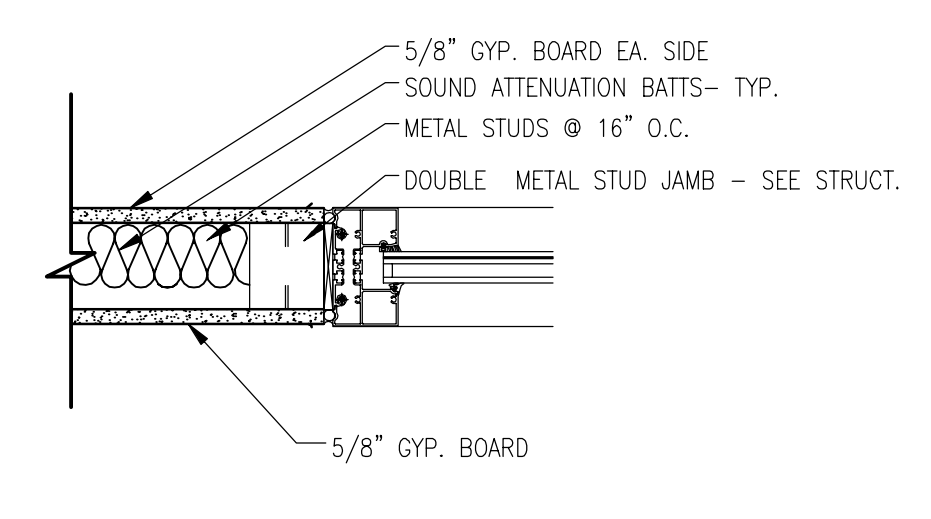
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20 JAMB DETAIL
A6.4 SCALE: 1 1/2"=1'-0"



21 HEAD DETAIL
A6.4 SCALE: 1 1/2"=1'-0"



22 JAMB DETAIL
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No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

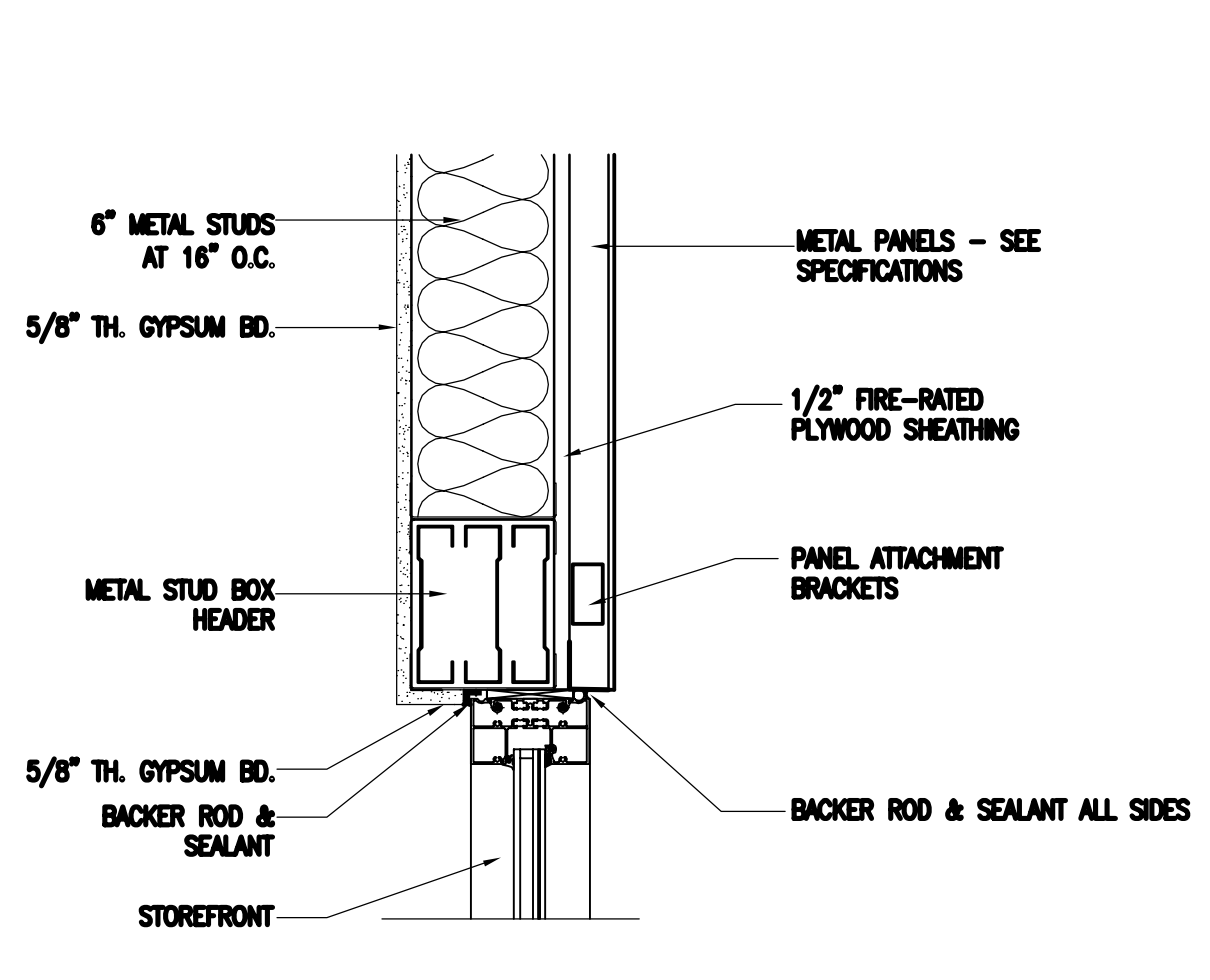
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED
Drawing Title:

HEAD, JAMB & SILL DETAILS

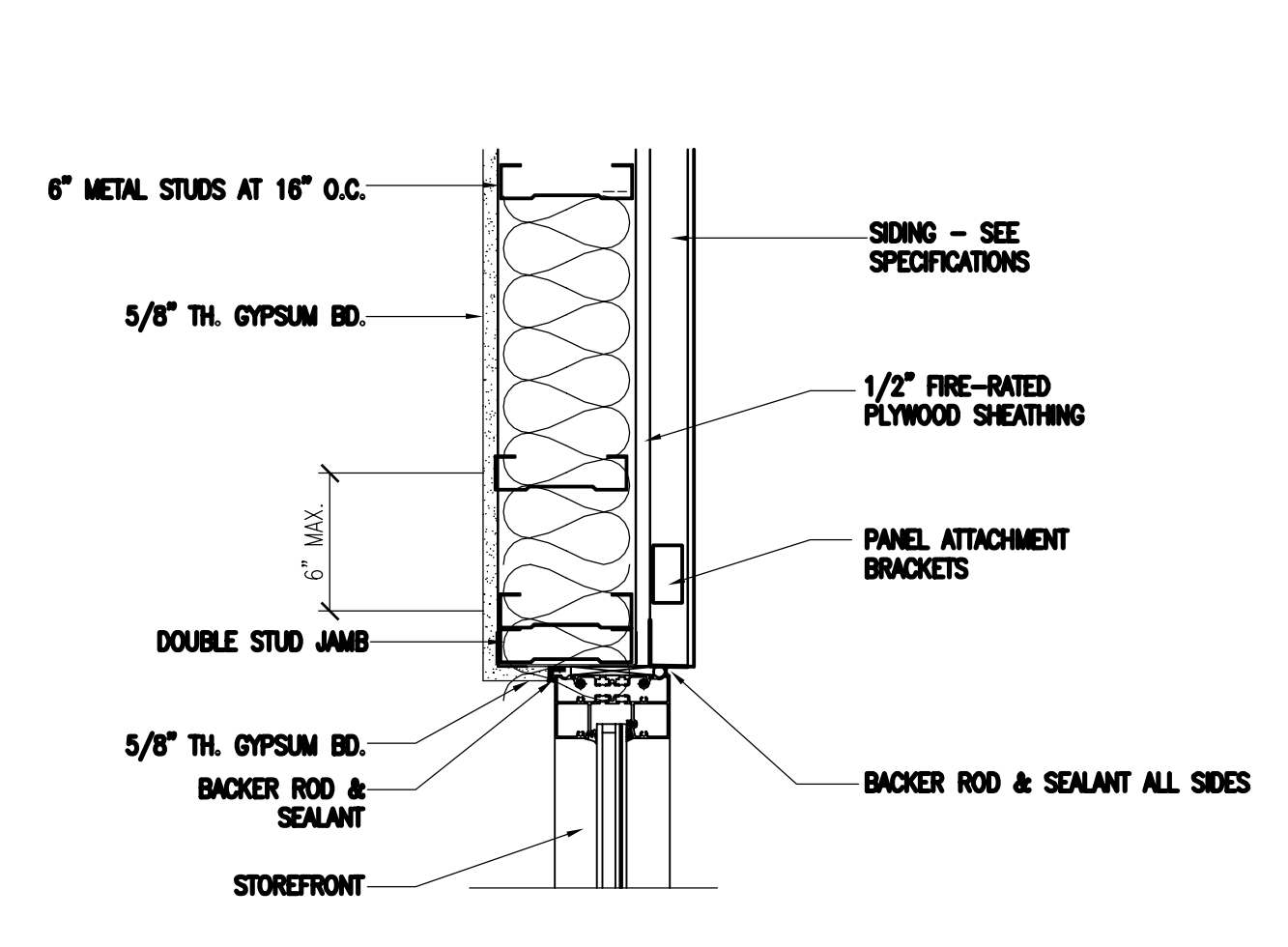
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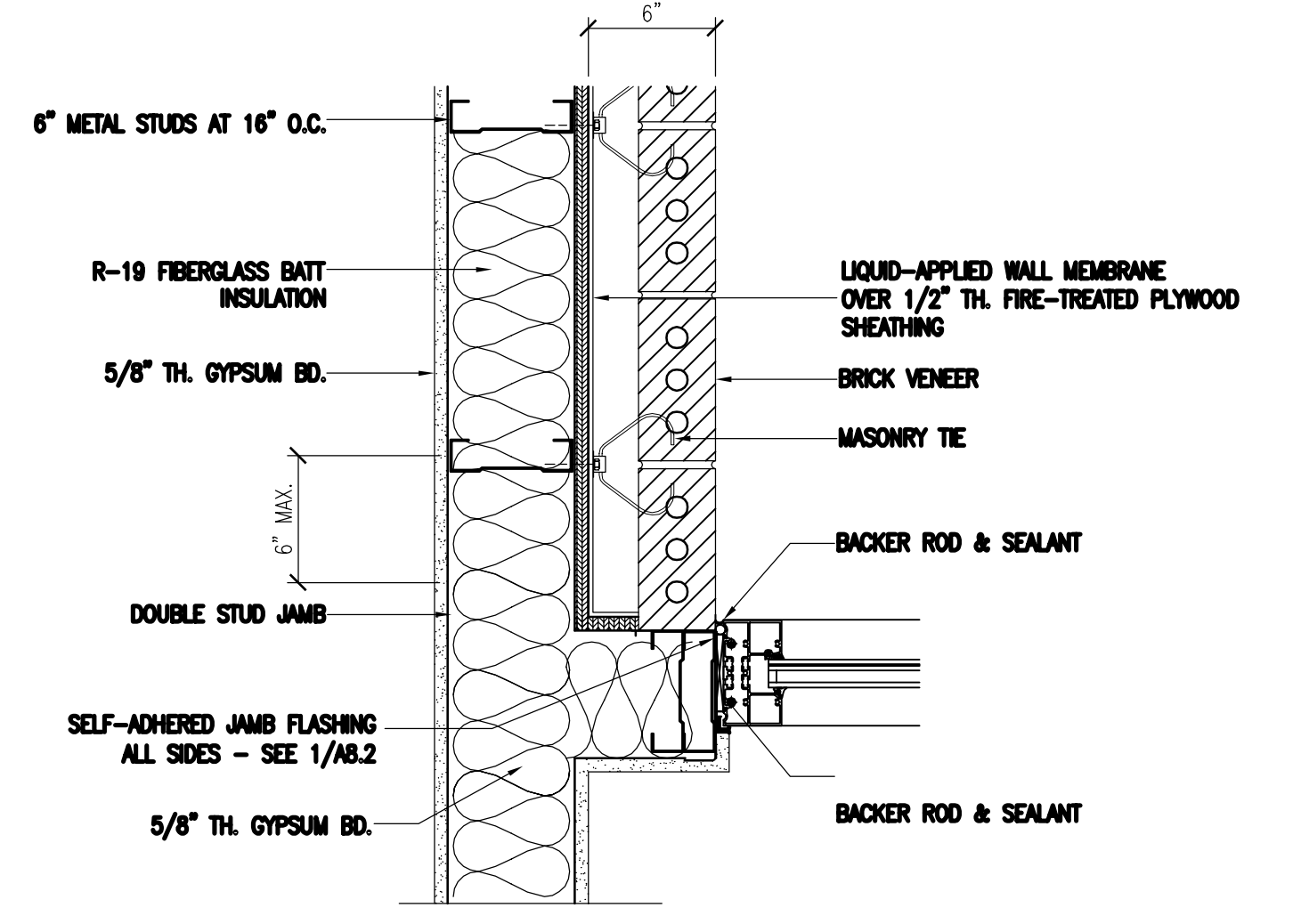
CONFORMANCE DOCUMENTS



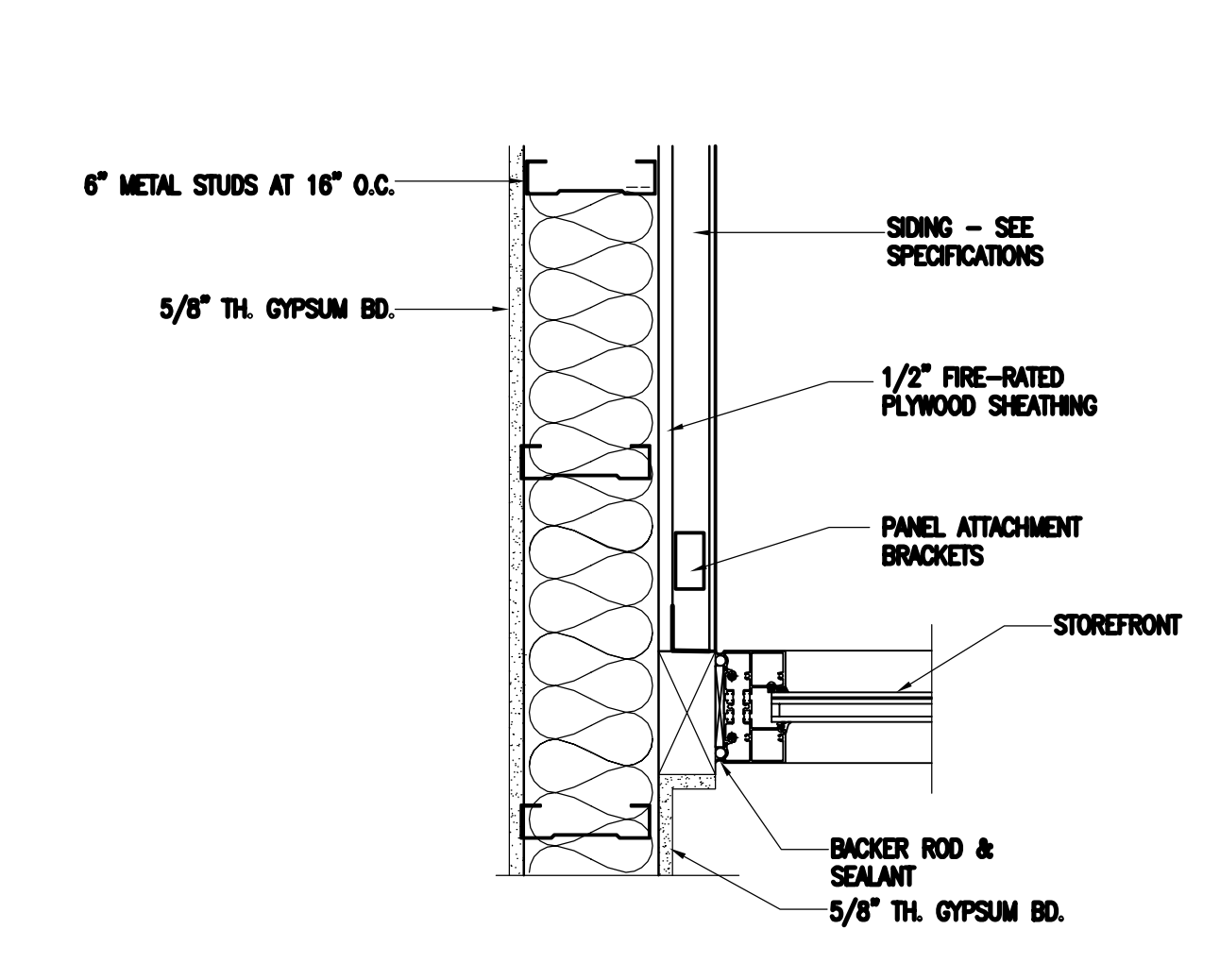
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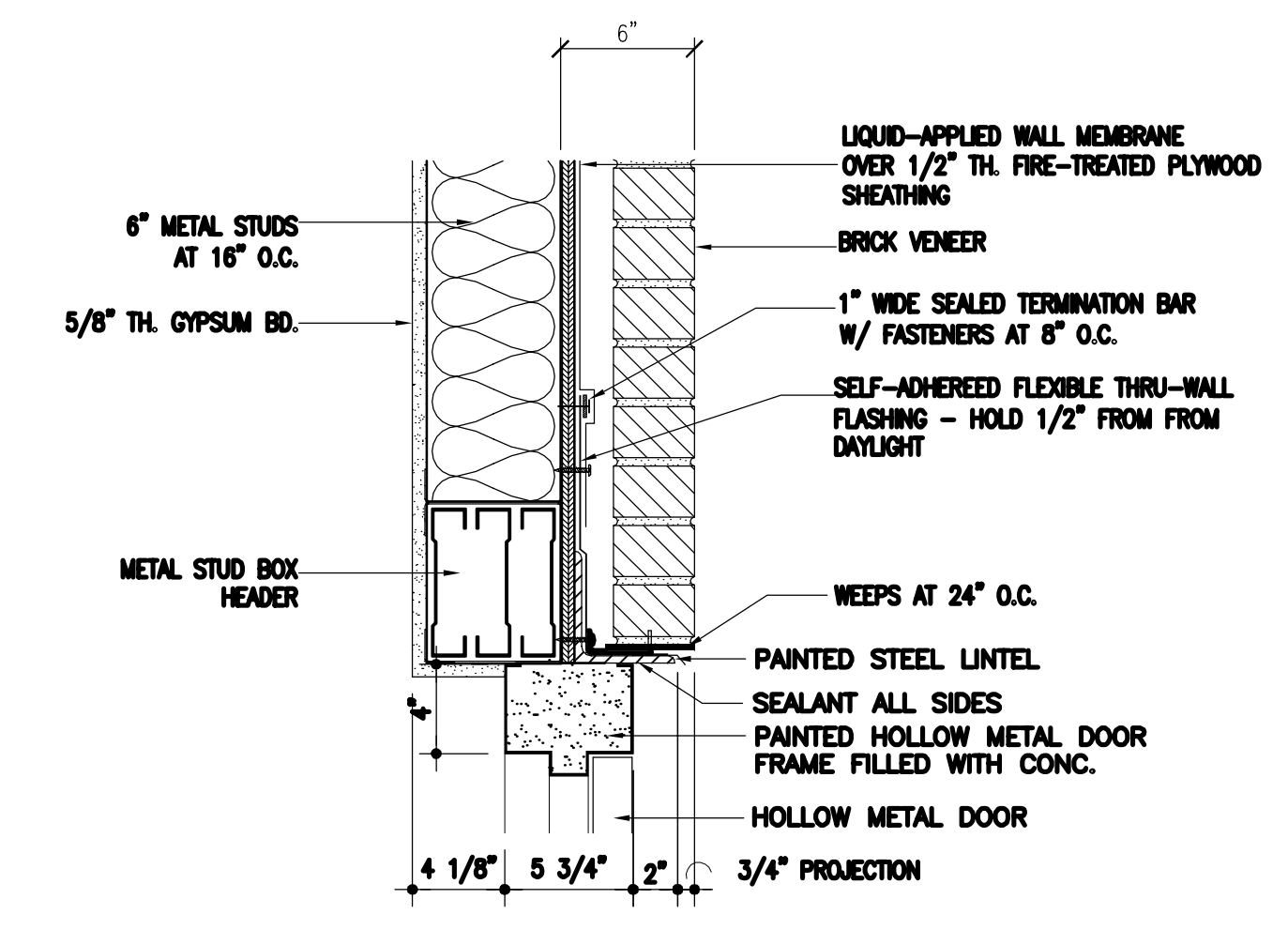
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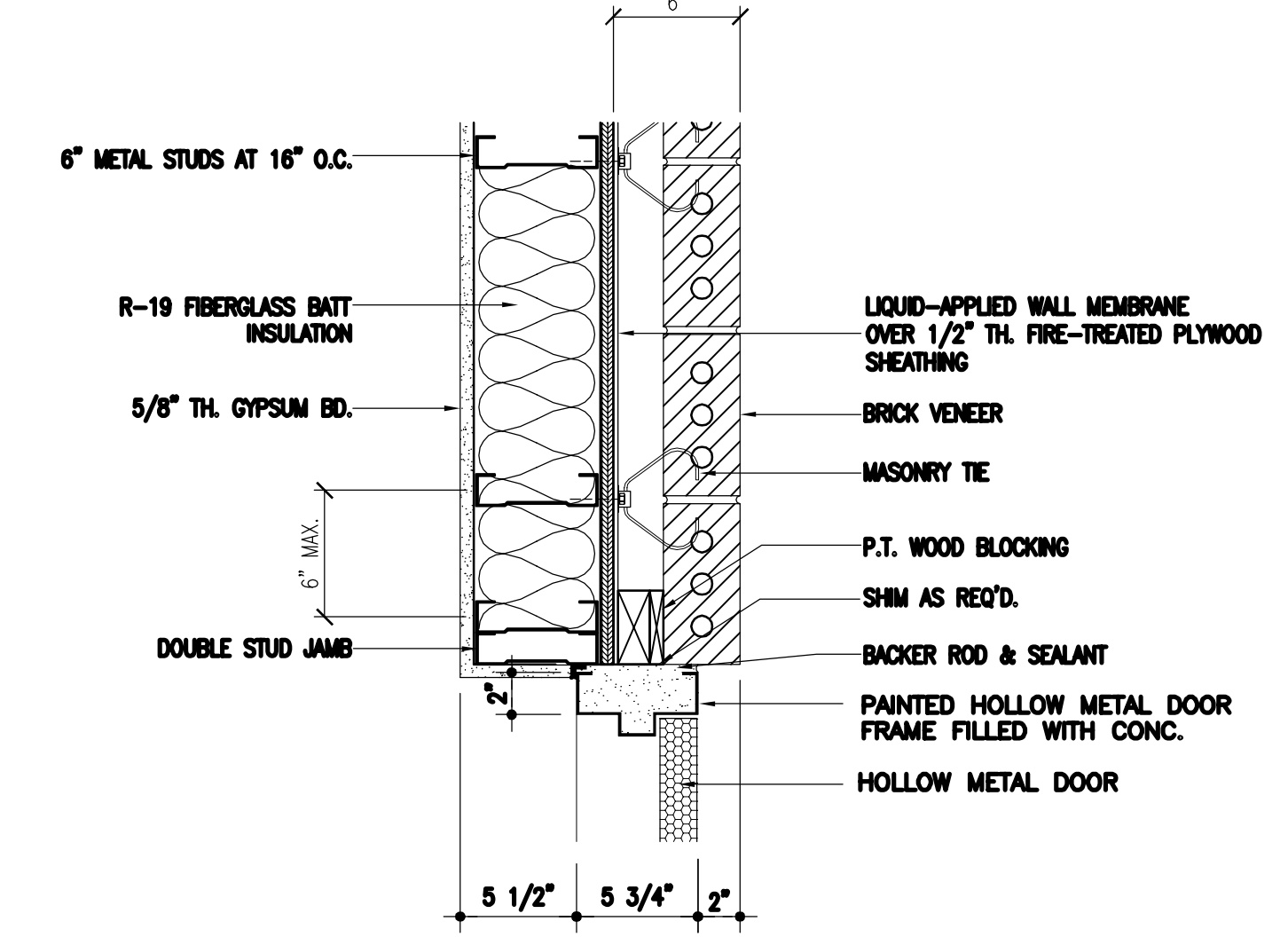
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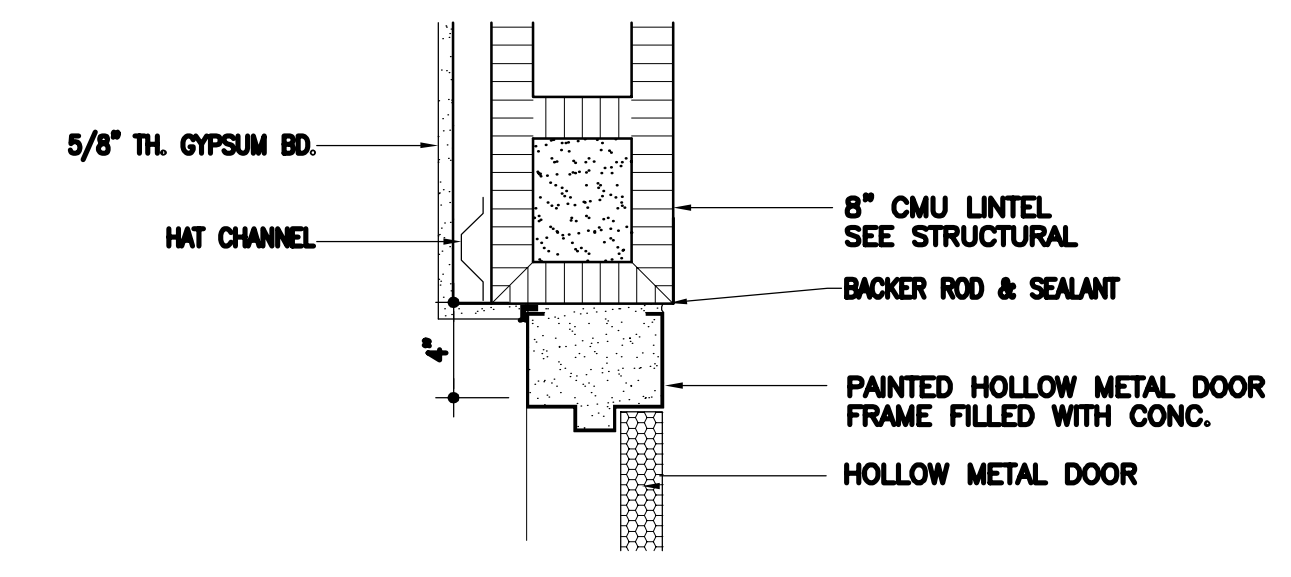
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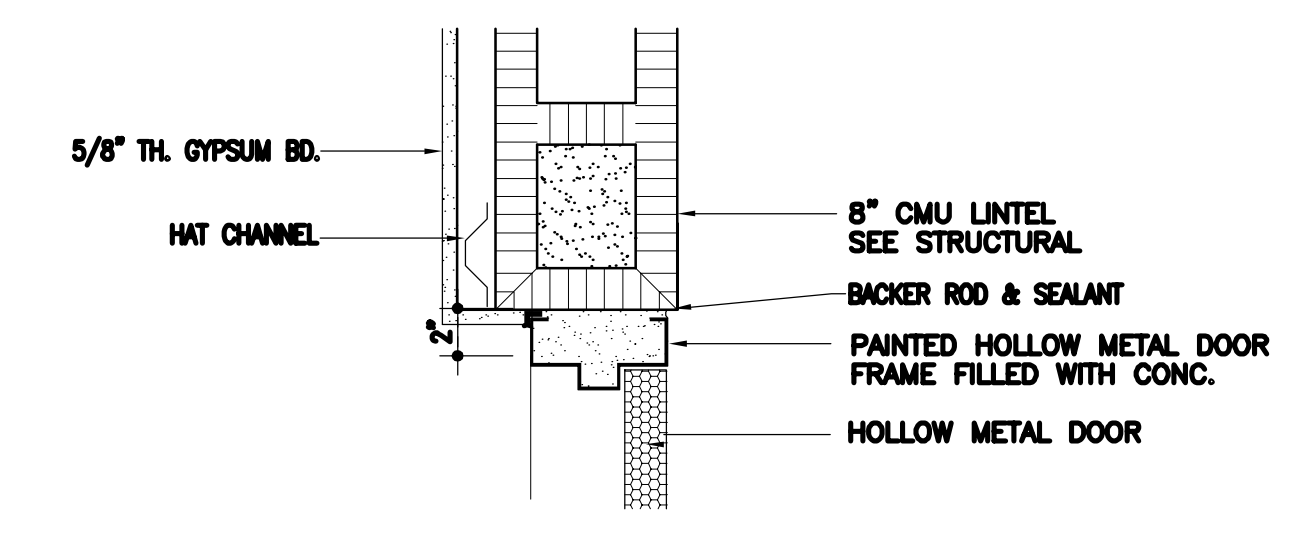
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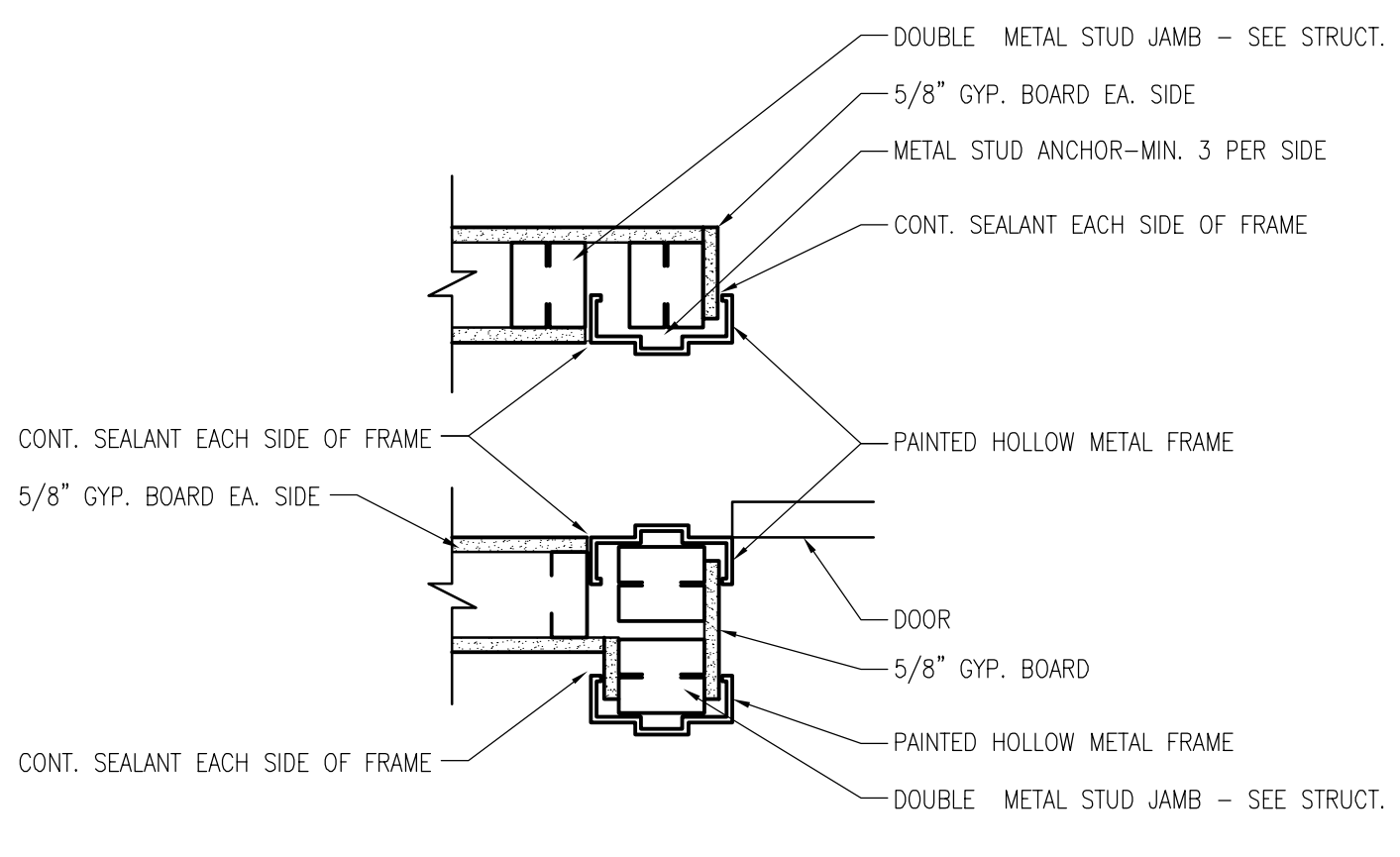
6 JAMB DETAIL
SCALE: 1 1/2"=1'-0"



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



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



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

NEW FIRE STATION NO. 10
 FOR
THE CITY OF MONTGOMERY
 SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	1	Construction Documents	02-03-2023
	2	Conformance Documents	05-17-2023

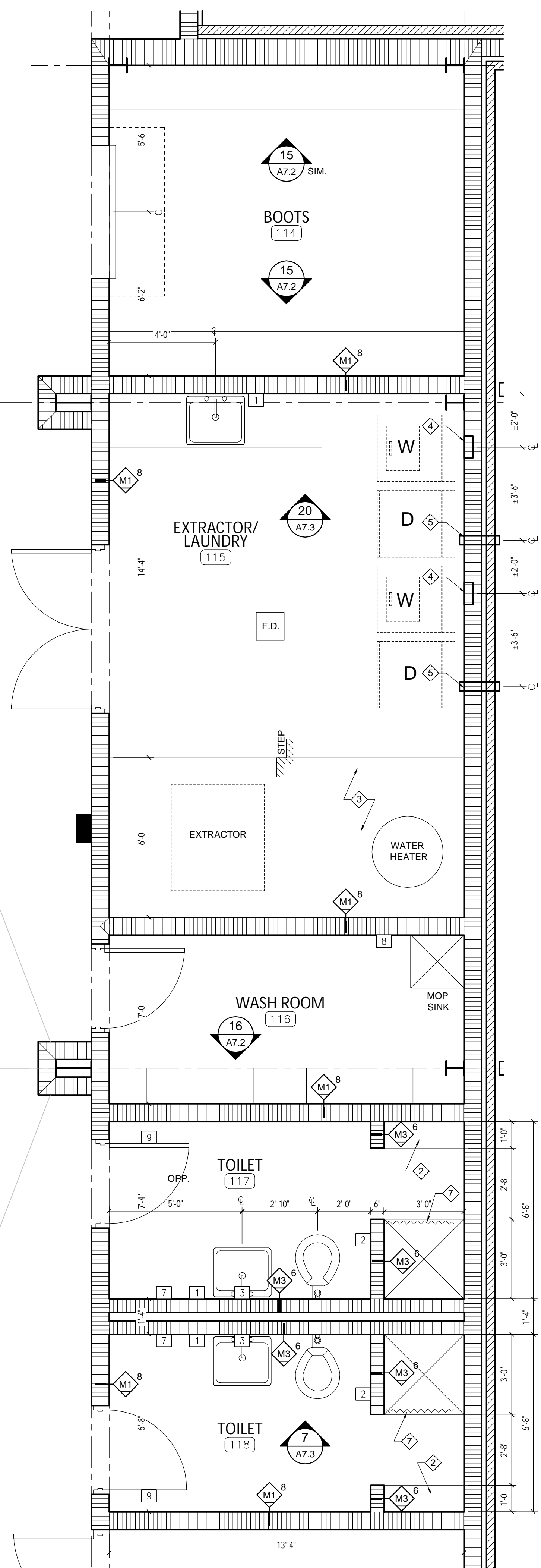
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 BDW Project No. 2021-118
 Drawn By: BDW
 Date:
 Scale: AS NOTED

Drawing Title:
HEAD, JAMB & SILL DETAILS

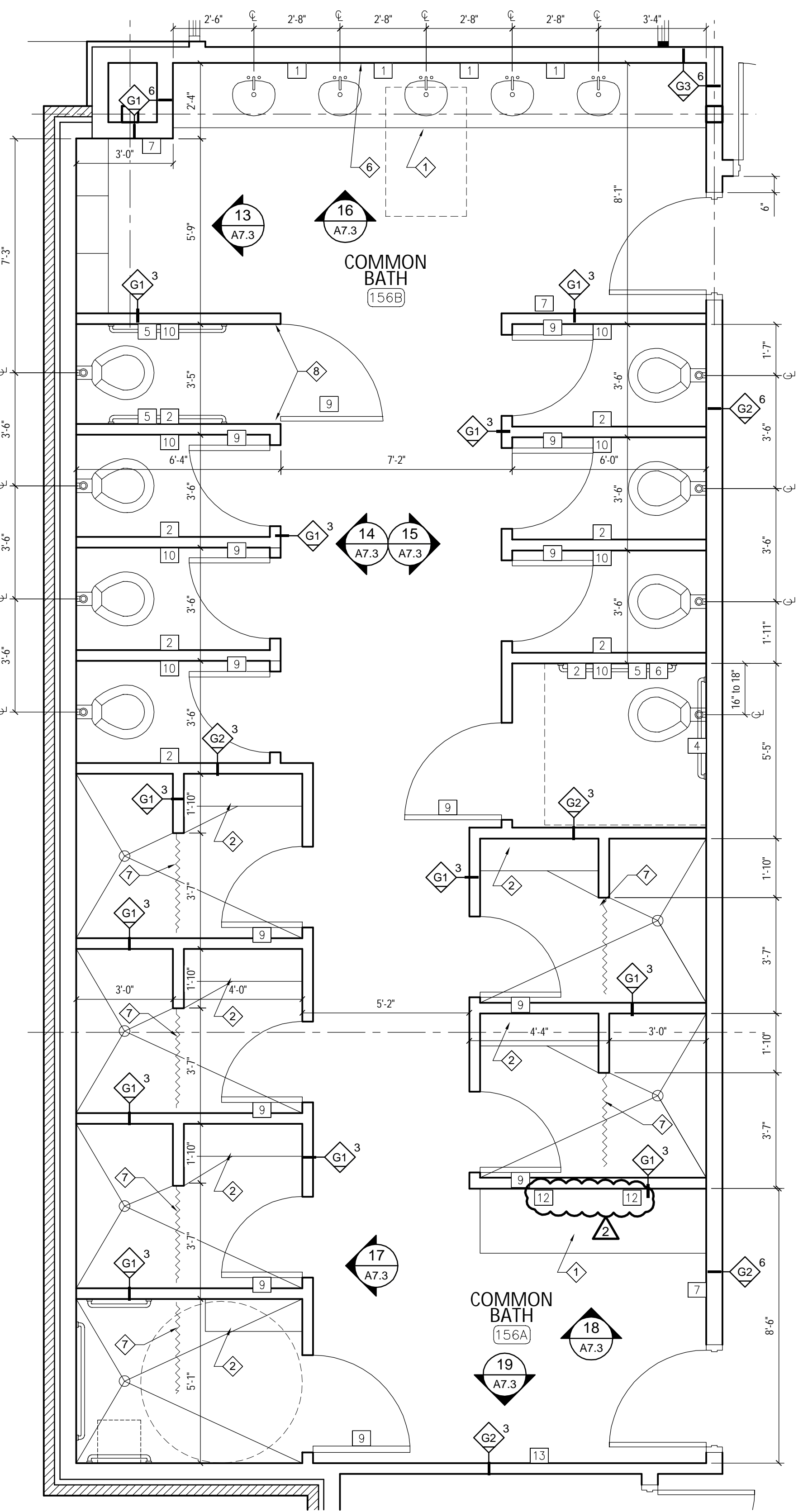
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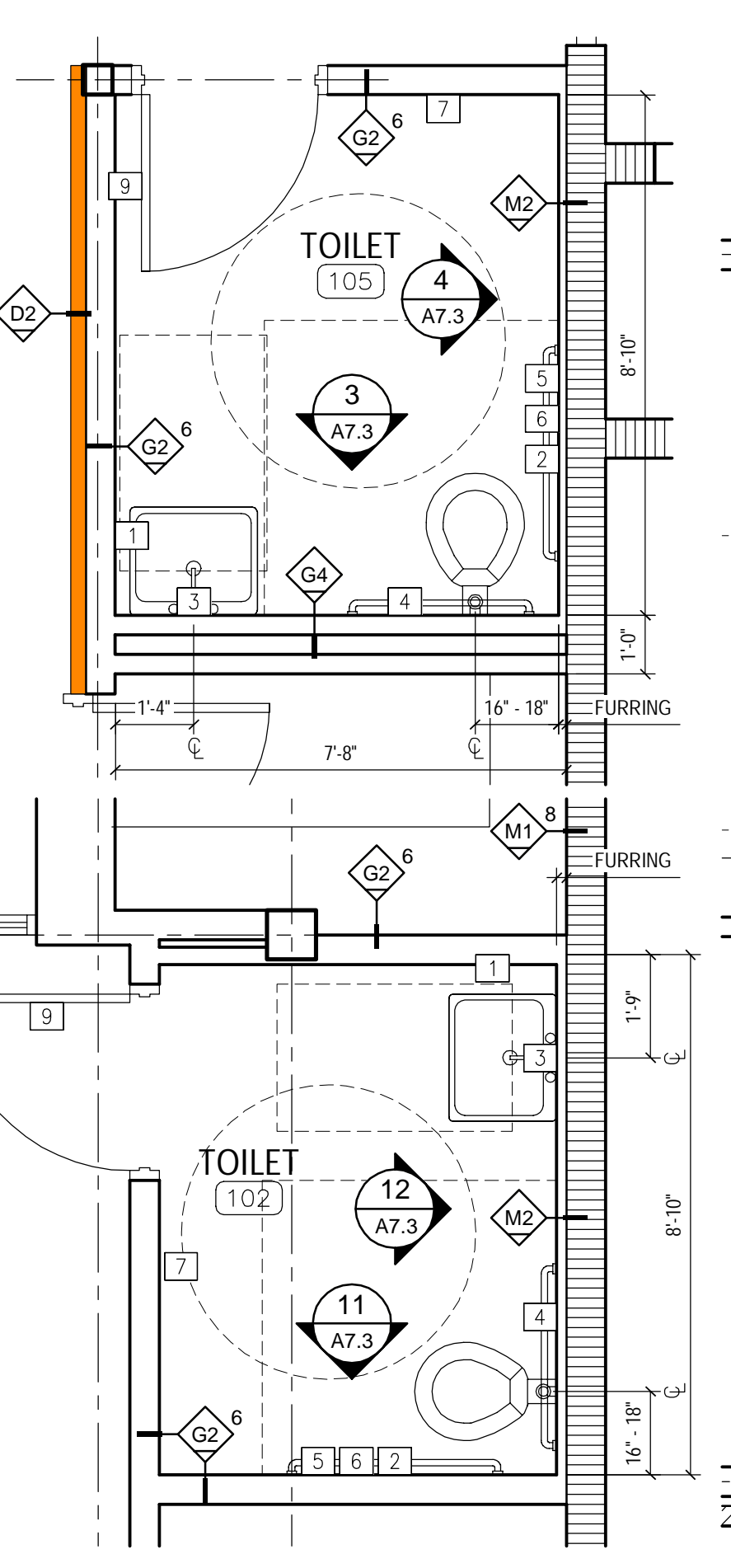
CONFORMANCE DOCUMENTS



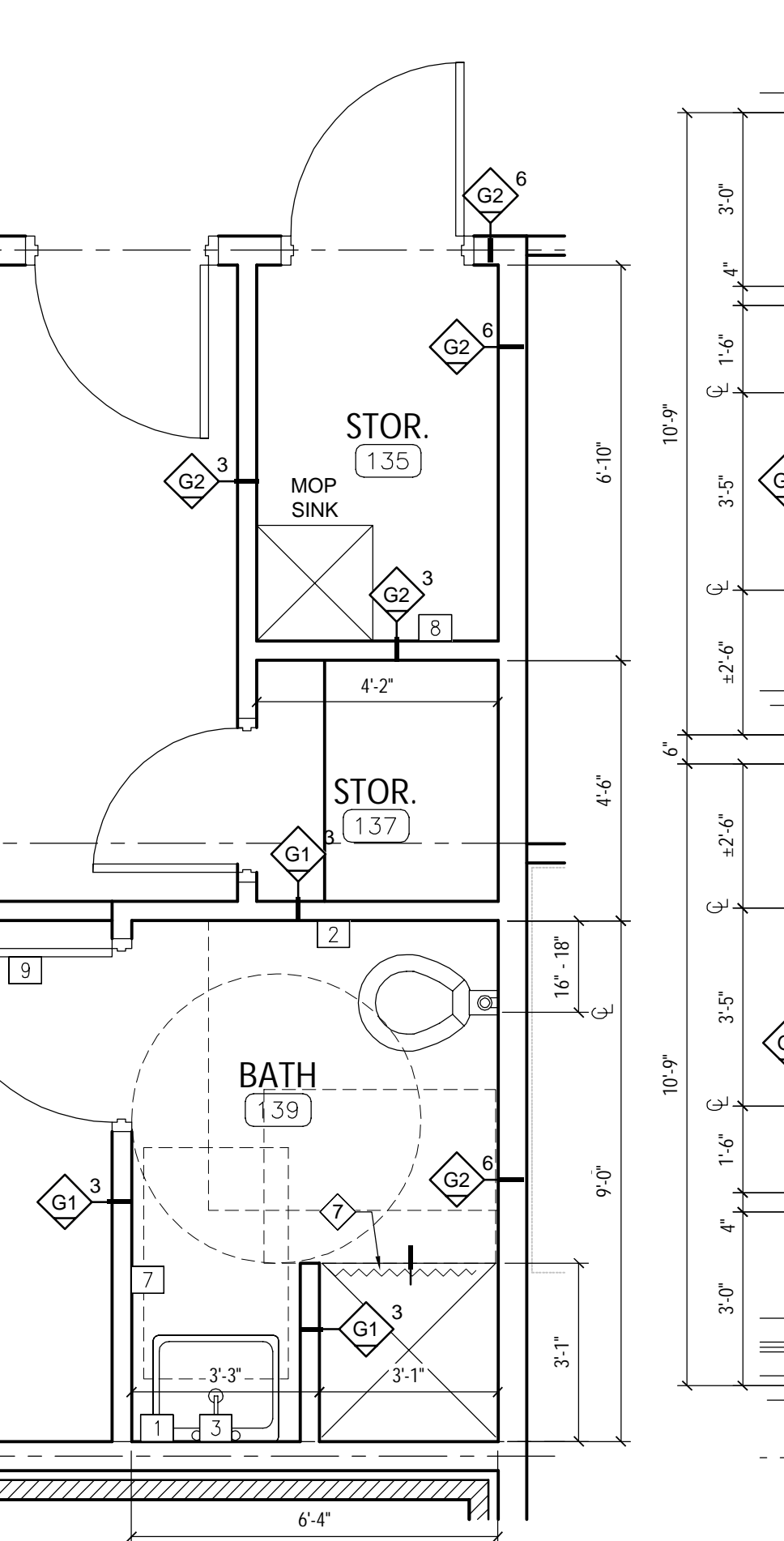
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A7.1
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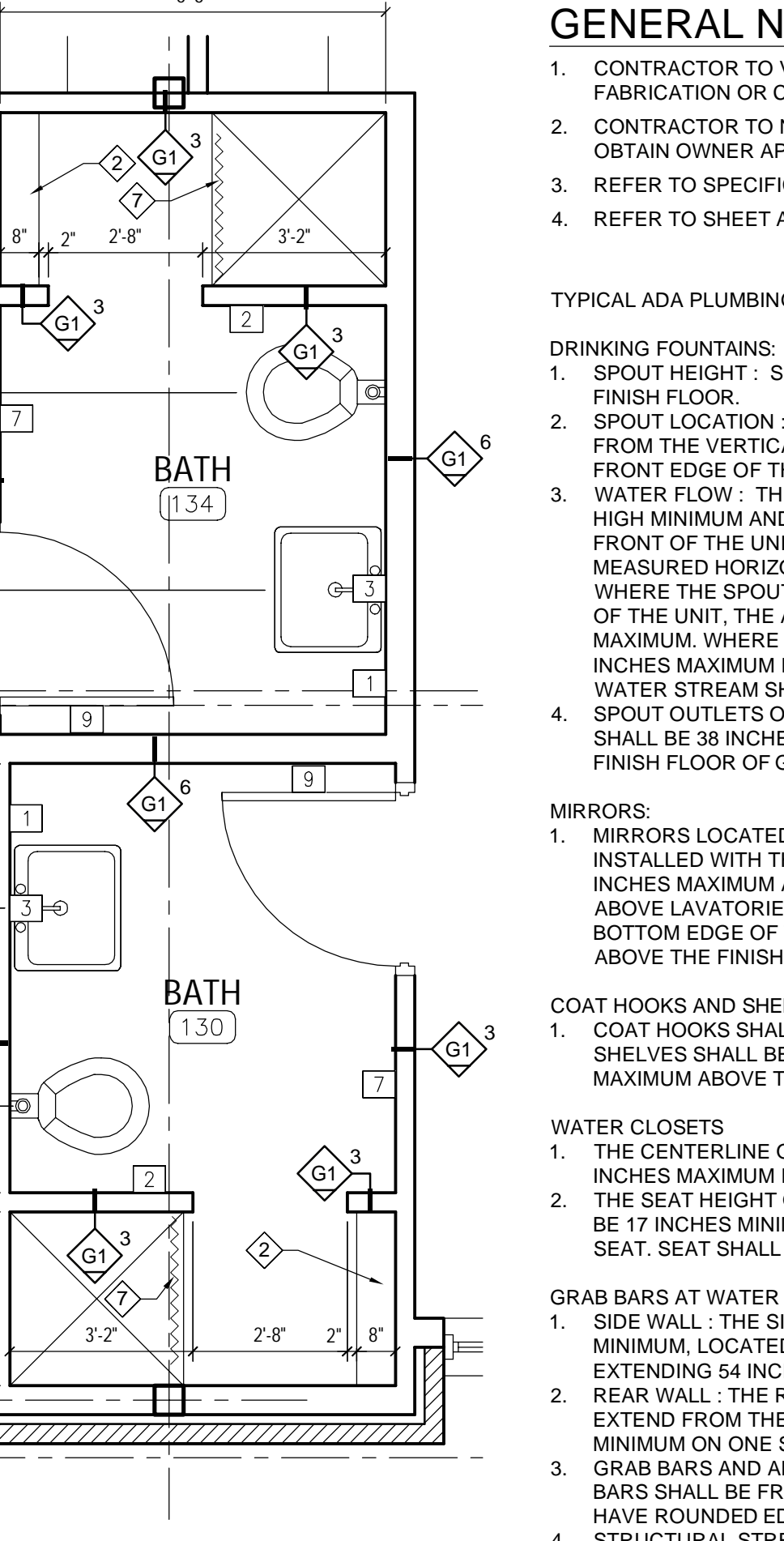
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A7.1
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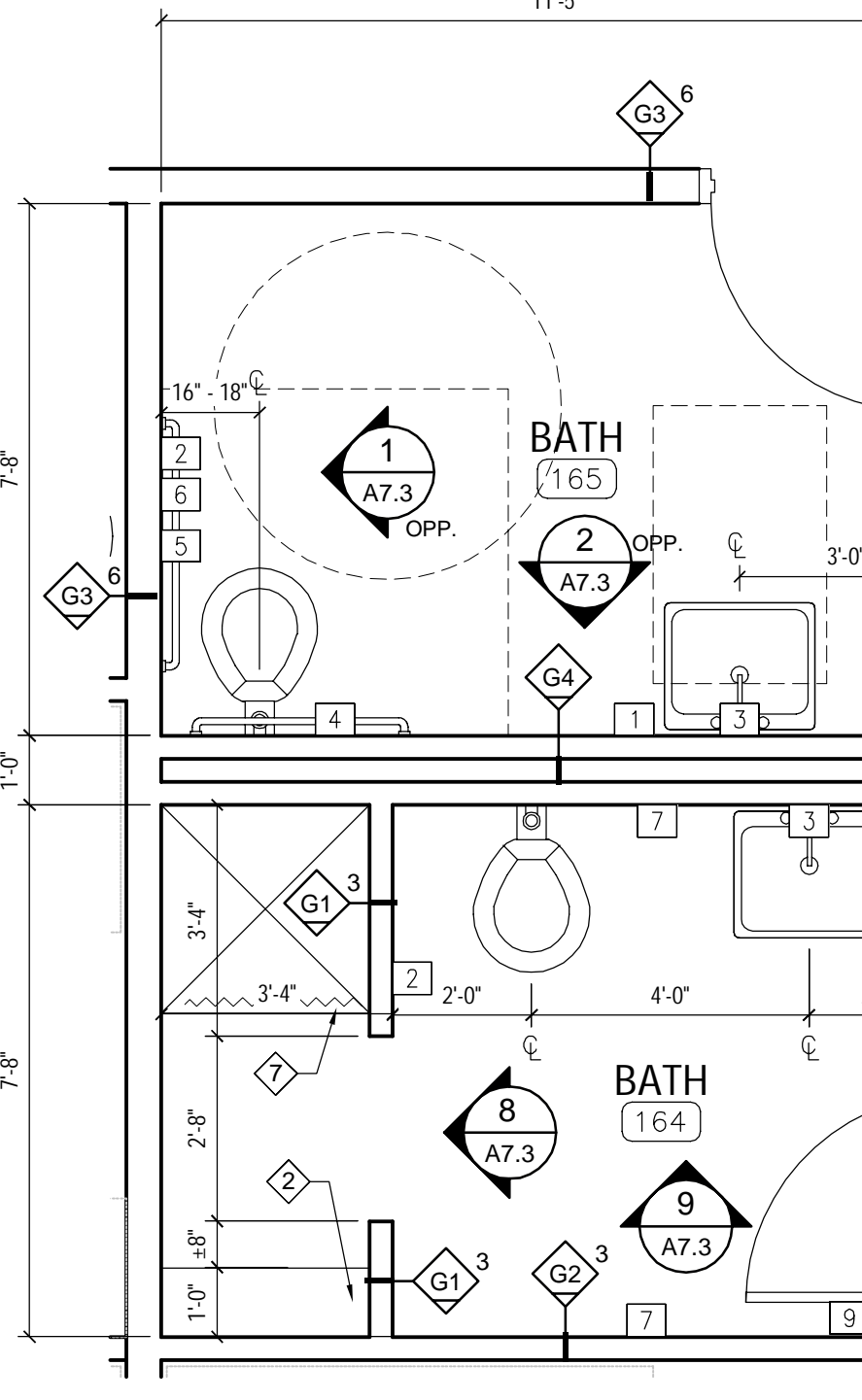
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3
A7.1
SCALE: 3/8"=1'-0"



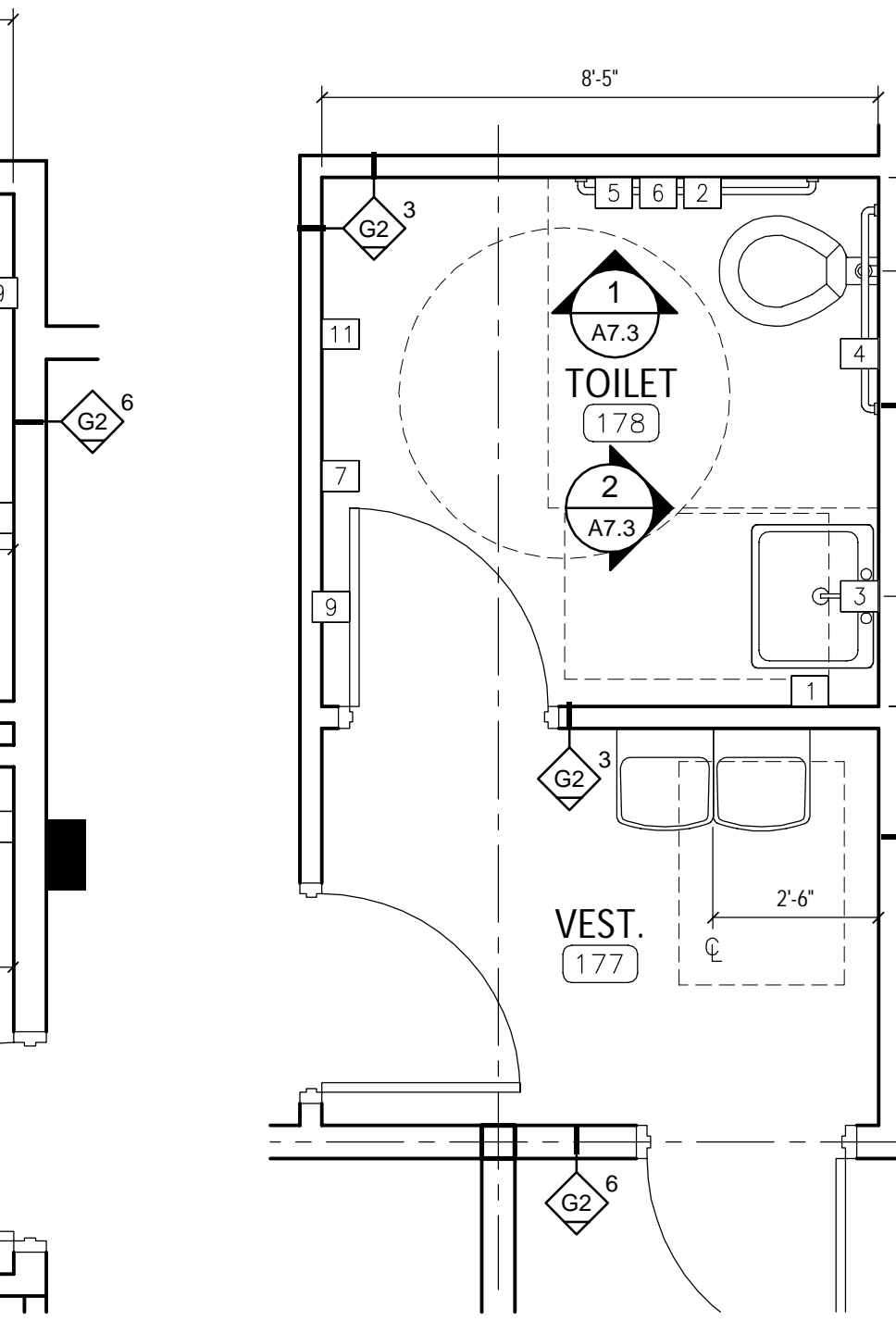
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A7.1
SCALE: 3/8"=1'-0"



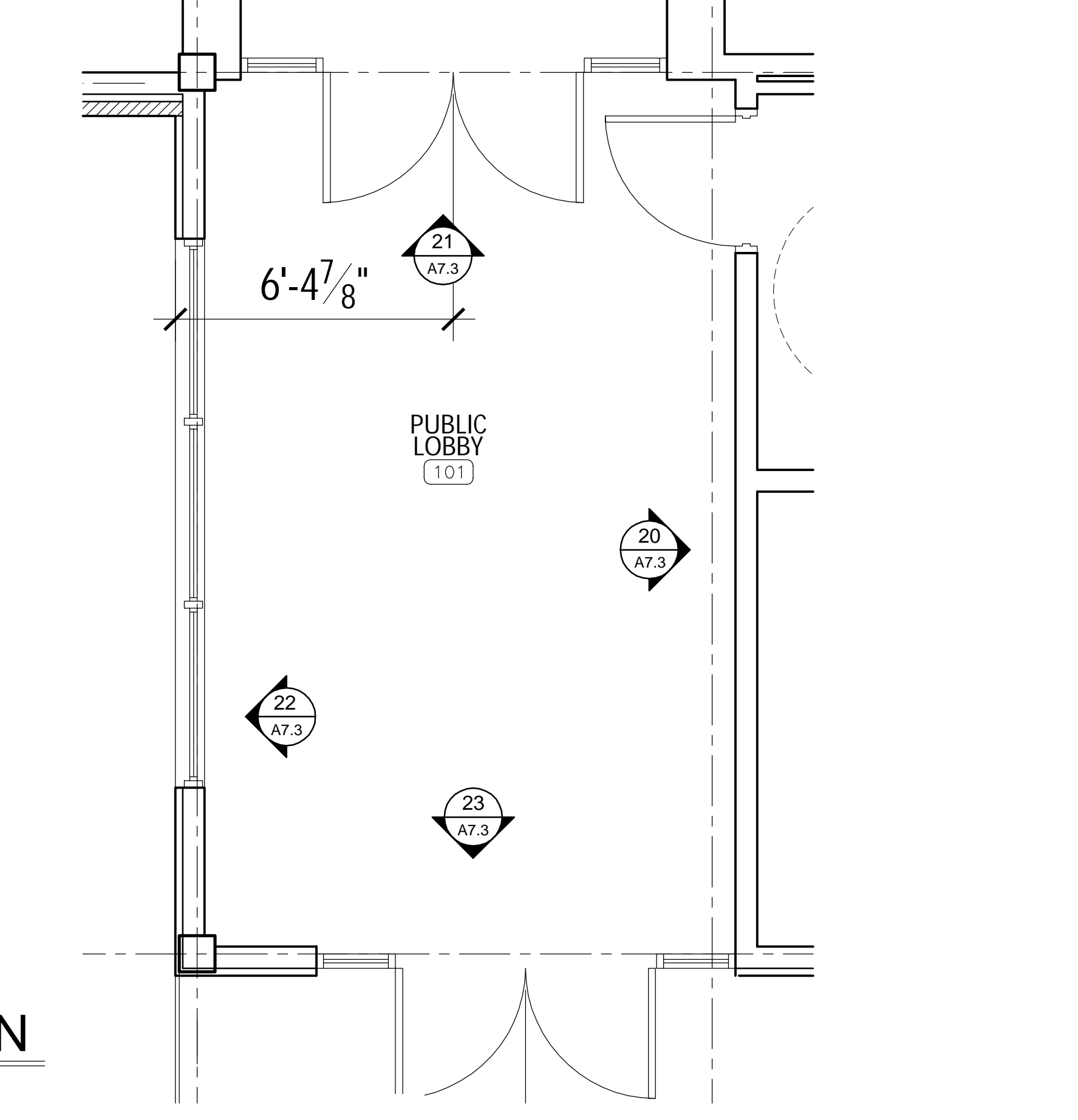
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A7.1
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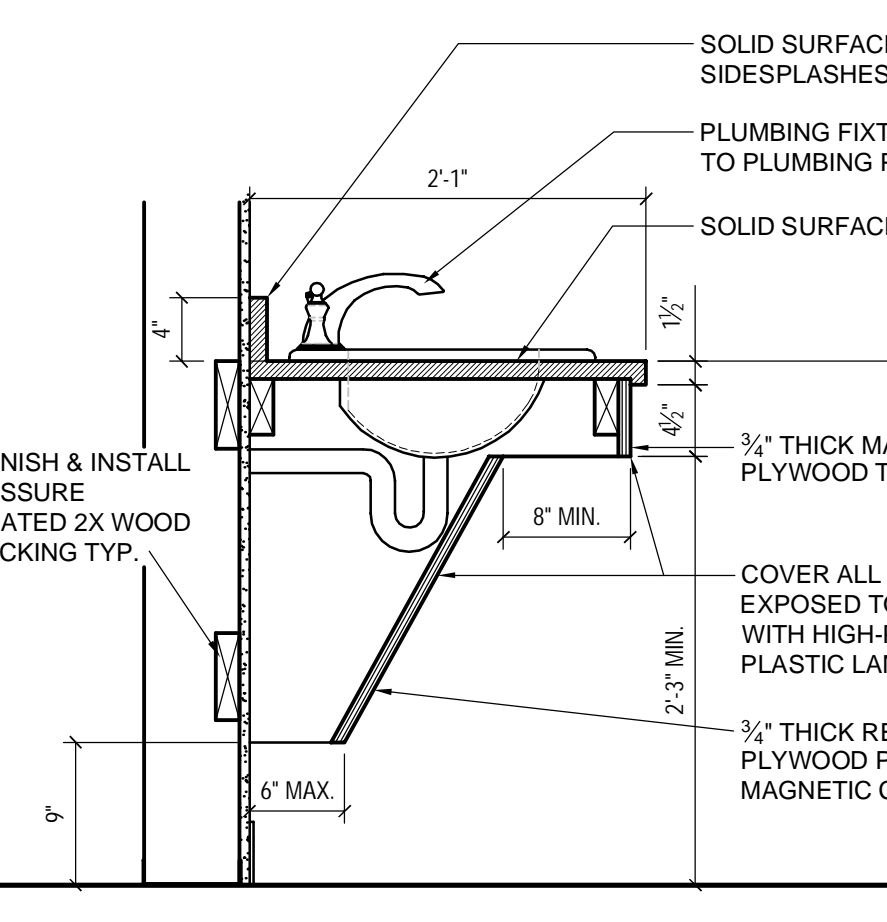
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A7.1
SCALE: 3/8"=1'-0"



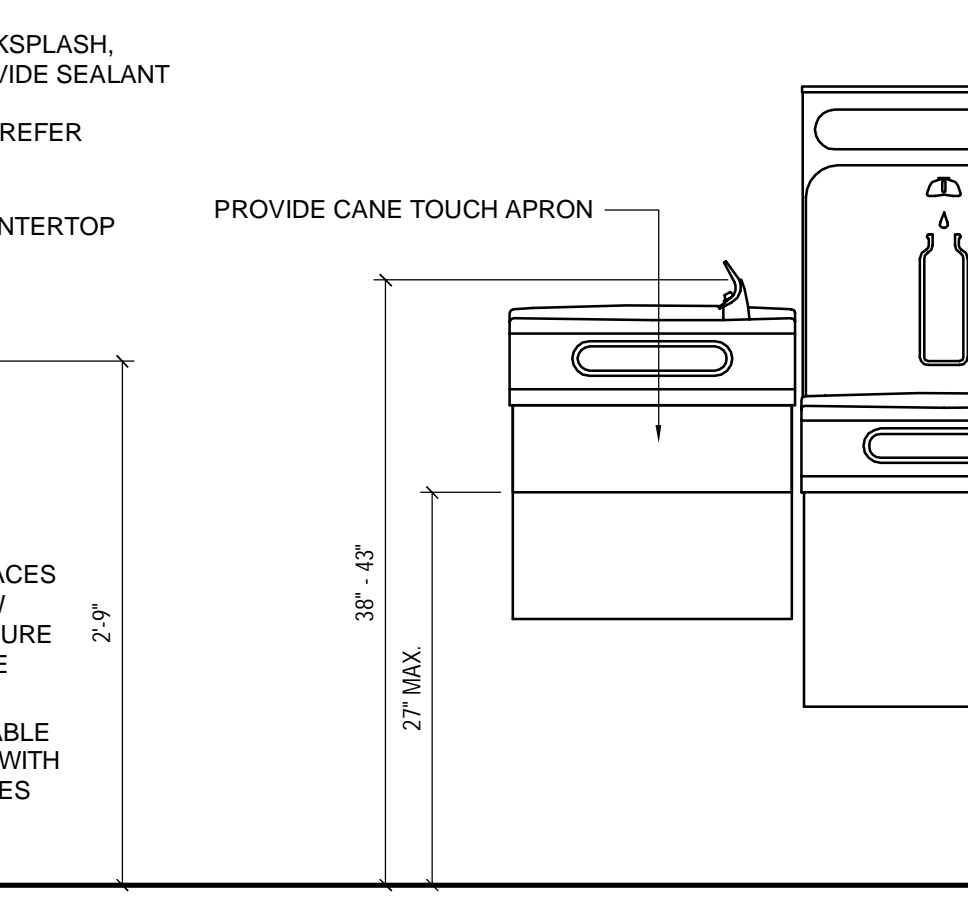
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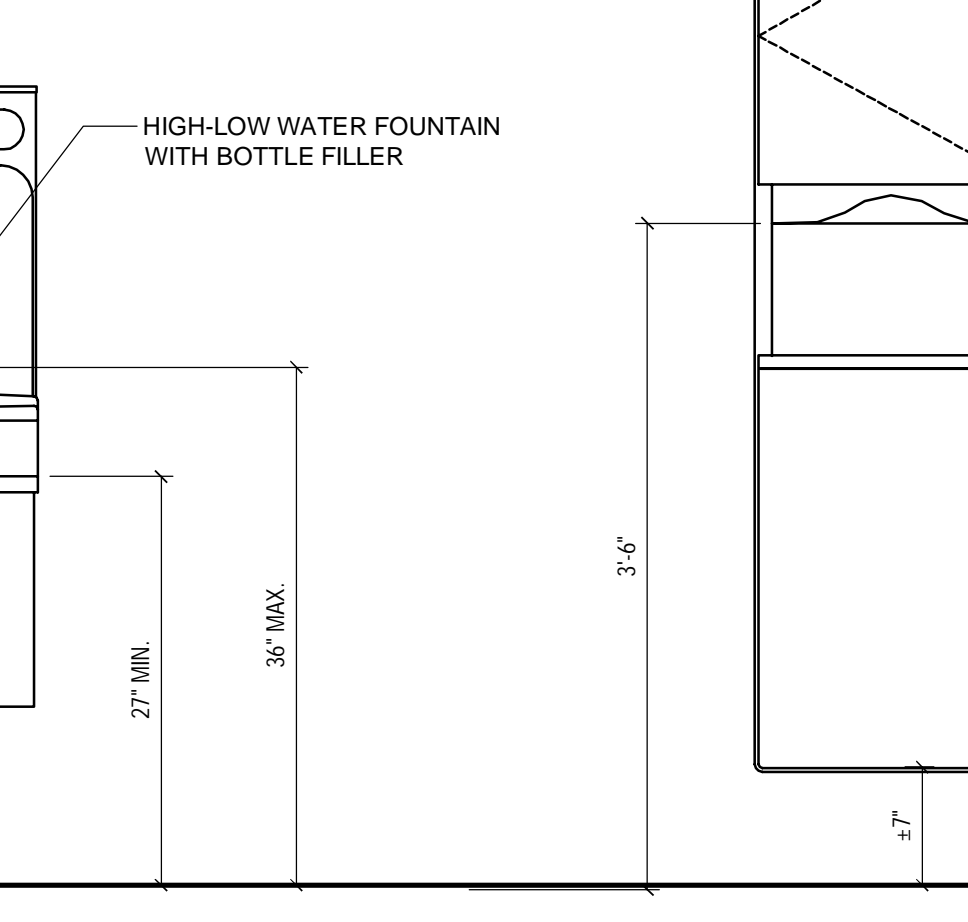
FLOOR PLAN
8
A7.1
SCALE: 3/8"=1'-0"



DETAIL
A
A7.1
SCALE: 1"=1'-0"



DETAIL
B
A7.1
SCALE: 1"=1'-0"



DETAIL
C
A7.1
SCALE: 1"=1'-0"

GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION.
- CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AND OBTAIN OWNER APPROVAL FOR ANY CHANGES.
- REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF FINISH MATERIALS.
- REFER TO SHEET A0.2 FOR WALL TYPE DESCRIPTIONS.

TYPICAL ADA PLUMBING ELEMENTS AND FACILITIES

- DRINKING FOUNTAINS:**
- SPOUT HEIGHT : SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE FINISH FLOOR.
 - SPOUT LOCATION : THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.
 - WATER FLOW : THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE THE SPOUTS ARE LOCATED LESS THAN 3 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.
 - SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

- MIRRORS:**
- MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

- COAT HOOKS AND SHELVES:**
- COAT HOOKS SHALL BE LOCATED 47" MAXIMUM ABOVE FINISH FLOOR. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

- WATER CLOSETS:**
- THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES TO 18 INCHES MAXIMUM FROM "FINISHED" FACE OF WALL.
 - THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM TO THE TOP OF THE SEAT. SEAT SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

- GRAB BARS AT WATER CLOSET:**
- SIDE WALL : THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.
 - REAR WALL : THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE.
 - GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
 - STRUCTURAL STRENGTH: ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

FLUSH CONTROLS:

- FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

DISPENSERS:

- TOILET PAPER DISPENSERS SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS.

LAVATORIES:

- LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OF THE COUNTERTOP SURFACE 33 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

NOTE: PROVIDE SOLID WOOD BLOCKING IN WALL BEHIND ALL GRAB BARS AND TOILET ACCESSORIES.

KEYNOTES

- COUNTERTOP CASEWORK. REFER TO DETAIL A/A7.1
- STAINLESS STEEL SHOWER BENCH
- RAISED CONCRETE FLOOR. REFER TO STRUCTURAL PLANS
- PROVIDE GUY-GRAY BOX FOR WASHING MACHINE CONNECTION. REFER TO PLUMBING PLANS
- PROVIDE THRU-WALL DRYER EXHAUST CONNECTION. REFER TO MECHANICAL PLANS
- 42" HIGH x FULL WIDTH PLATE GLASS MIRROR
- PROVIDE ROD & SHOWER CURTAIN
- SEE JAMB DETAIL A/6.5

TOILET ACCESSORY INDEX		
SYMBOL	ACCESSORY	MOUNTING HEIGHT
1	WALL MOUNTED SOAP DISPENSER	40" TO DISPENSING MECHANISM
2	TOILET TISSUE DISPENSER (SURFACE-MOUNTED)	28" AFF. TO TOP OF UNIT
3	PLATE GLASS MIRROR 42" HIGH, FULL WIDTH	40" TO BOTTOM OF REFLECTIVE SURFACE
4	GRAB BAR 36"	36" AFF TO TOP OF BAR
5	GRAB BAR 42"	36" AFF TO TOP OF BAR
6	GRAB BAR 18"	SEE ELEVATIONS
7	TOWEL DISPENSER / WASTE RECEPTACLE	42" TO DISPENSER - SEE CIA7.1
8	STAINLESS STEEL UTILITY SHELF W/ 4 MOP HOLDERS	72" TO TOP OF SHELF
9	METAL COAT HOOK	48" TO HOOK, ON INSIDE FACE OF DOOR
10	SANITARY NAPKIN DISPOSER (WHERE APPLICABLE)	28" AFF TO TOP OF UNIT
11	WALL MOUNTED INFANT CHANGING STATION	30" AFF TO BOTTOM OF UNIT
12	18" x 36" PLATE GLASS MIRROR WITH FRAME	40" TO BOTTOM OF REFLECTIVE SURFACE
13	24" x 60" FRAMED PLATE GLASS MIRROR	12" TO BOTTOM OF REFLECTIVE SURFACE

REVISIONS	No.	Description	Date
1	Construction Documents	02-03-2023	
2	Conformance Documents	05-17-2023	

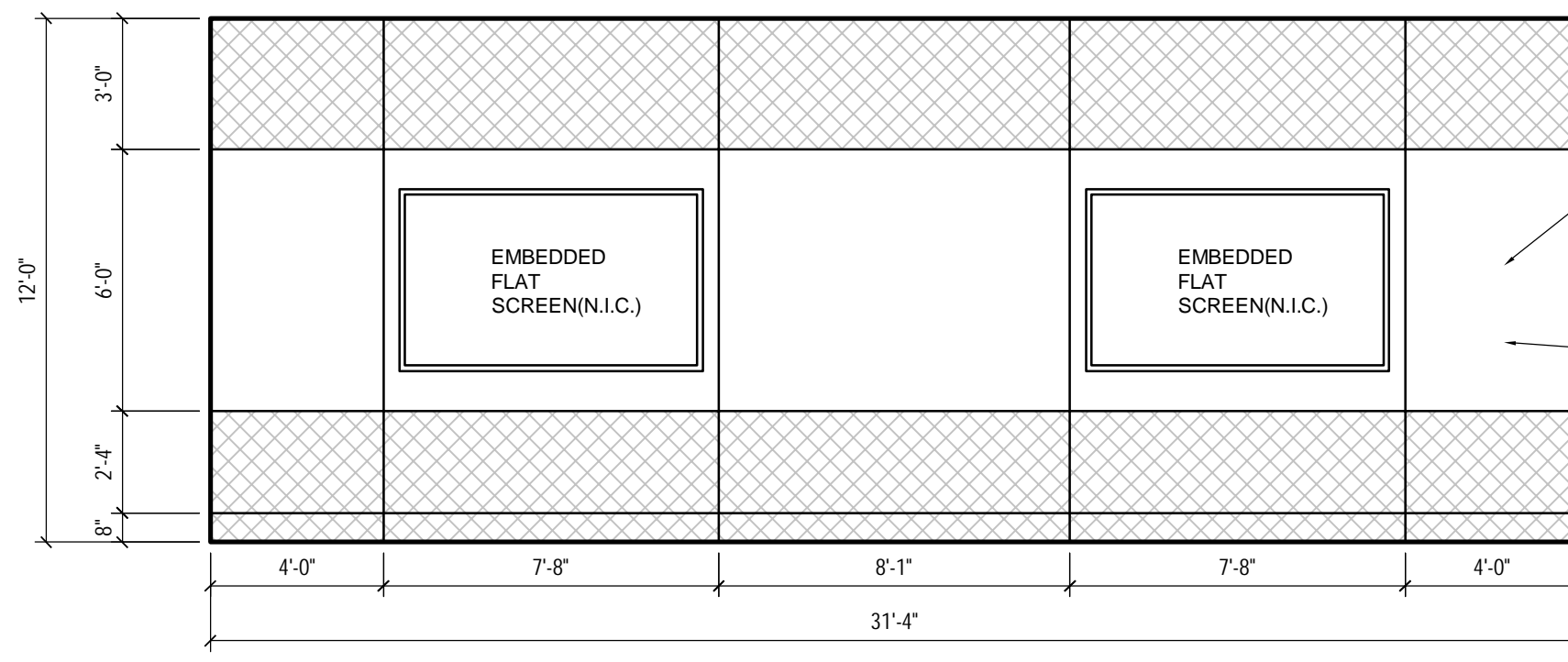
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BDW Project No. 2021-118
Drawn By: BDW
Date: AS NOTED
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Drawing Title:

TOILET PLANS

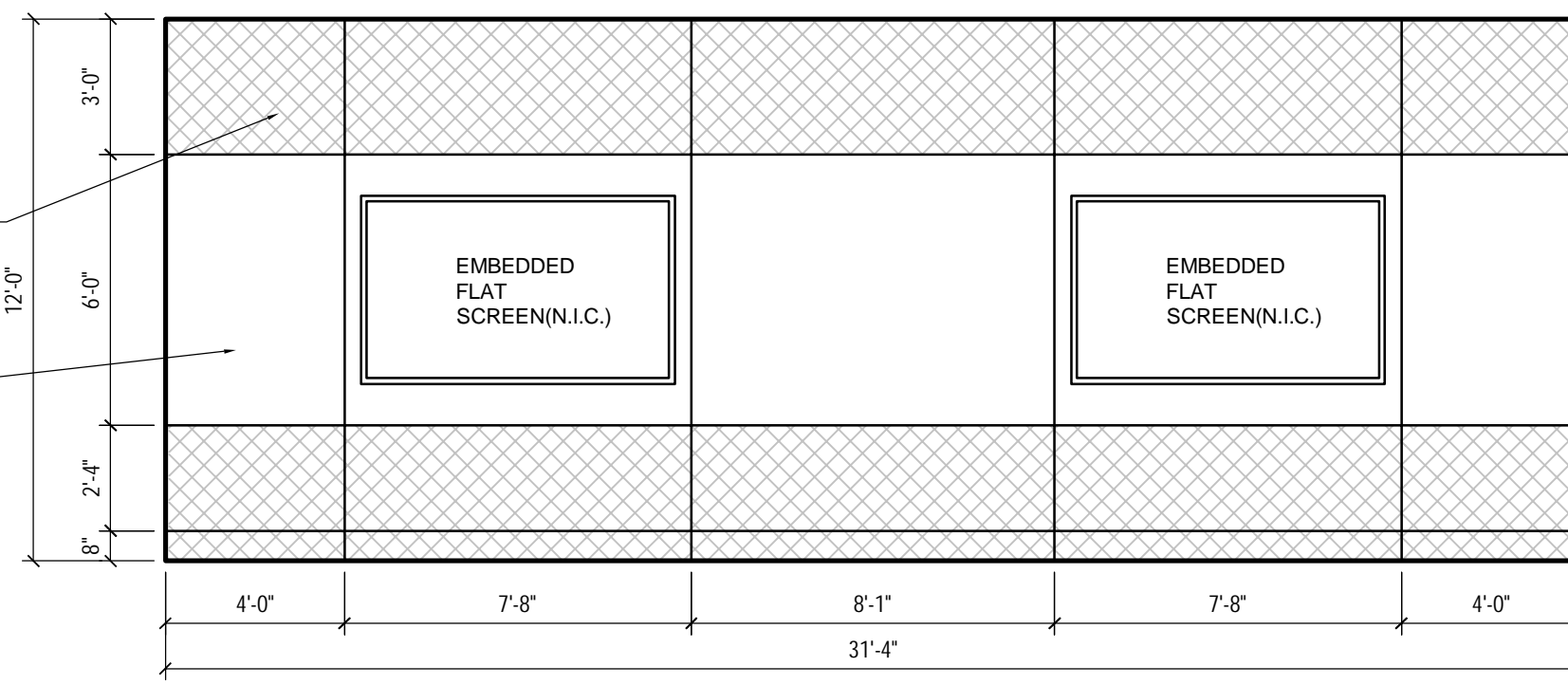
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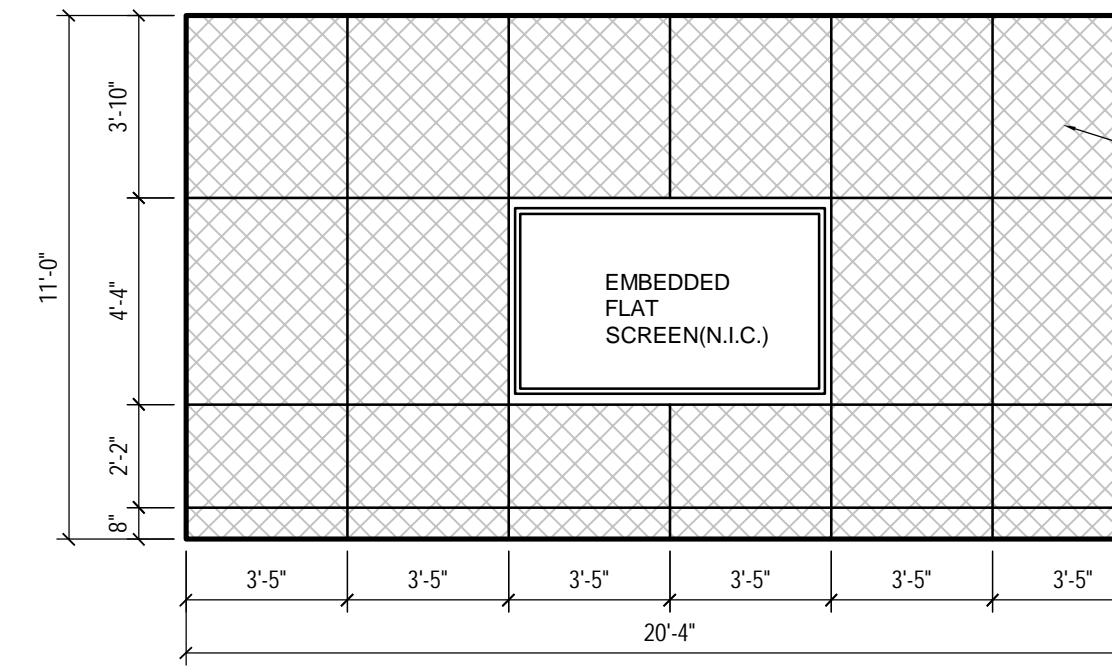
CONFORMANCE DOCUMENTS



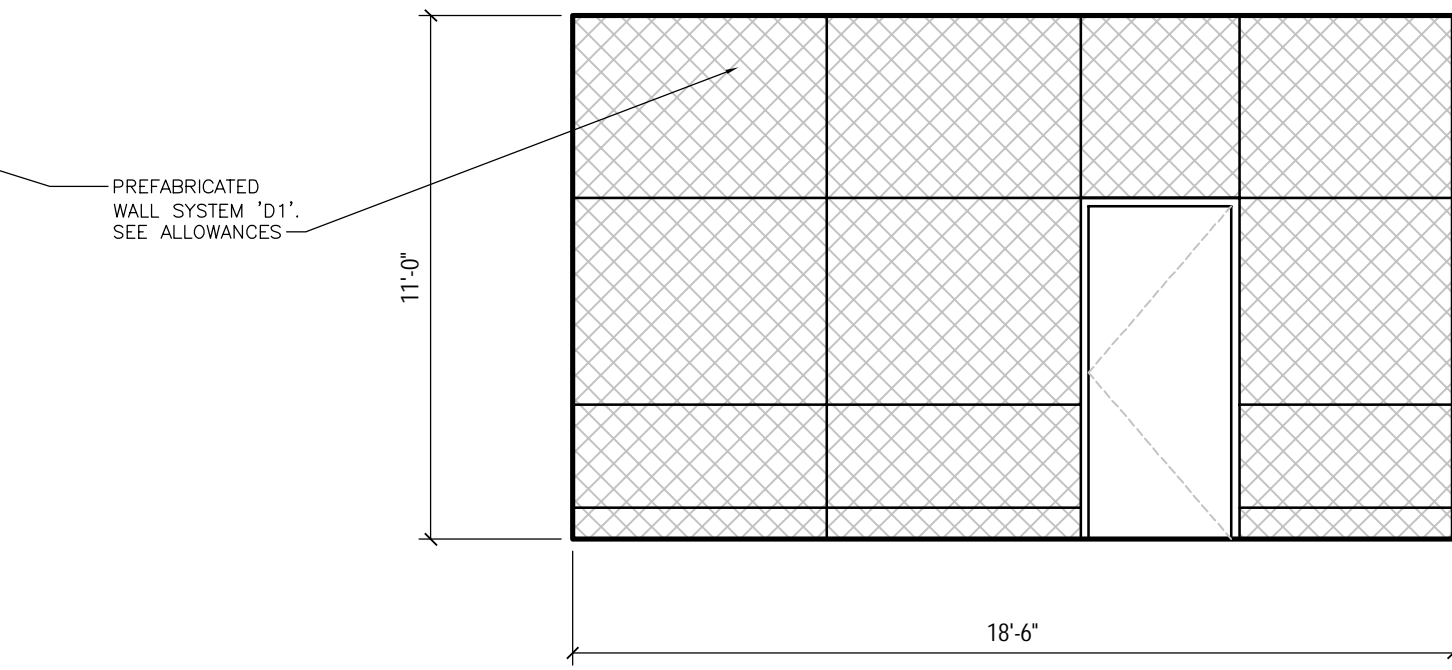
1 MEETING/CLASSROOM - 174
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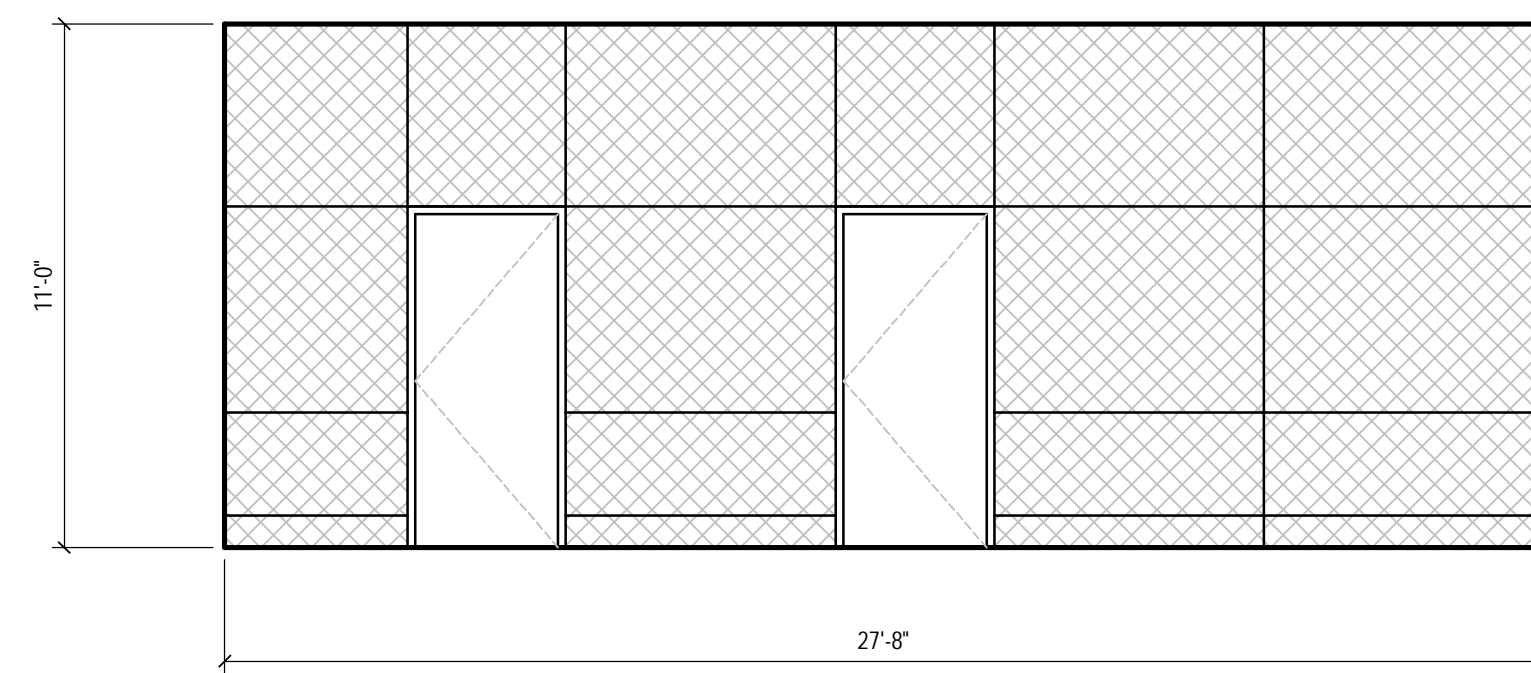
2 TRAINING ROOM - 166
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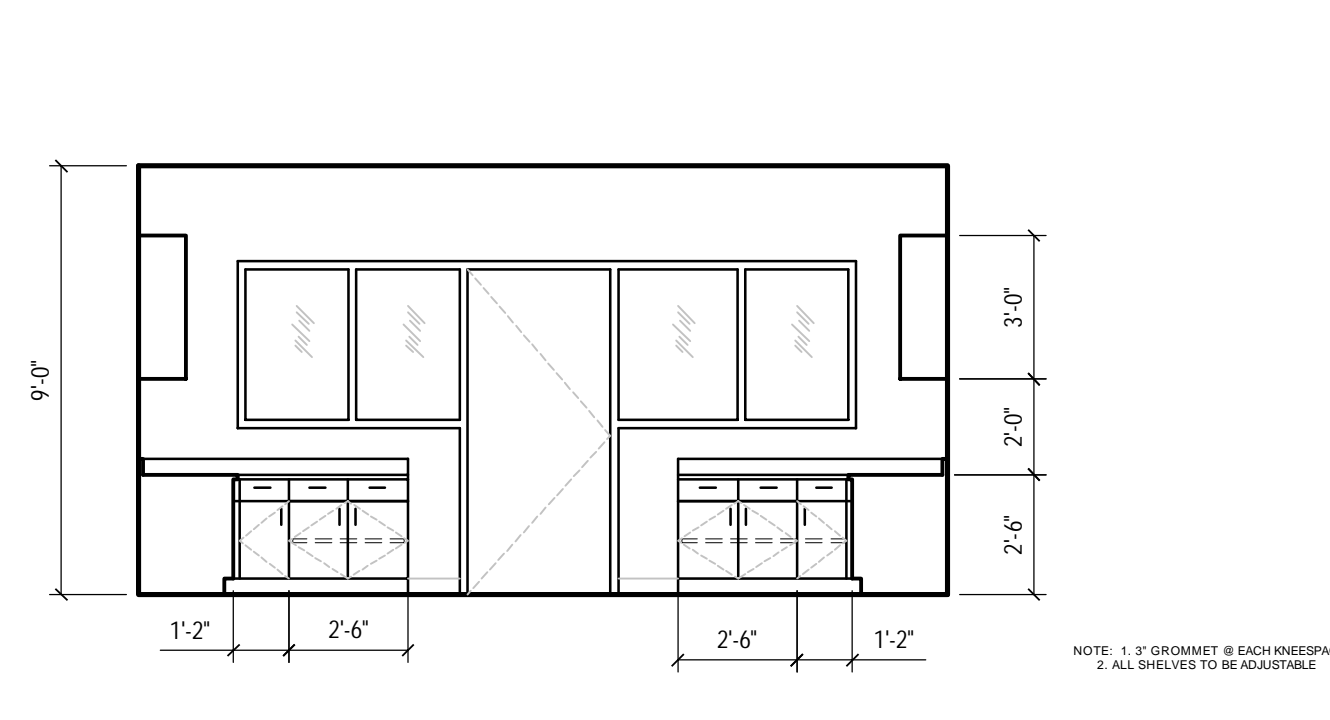
3 LOUNGE - 106
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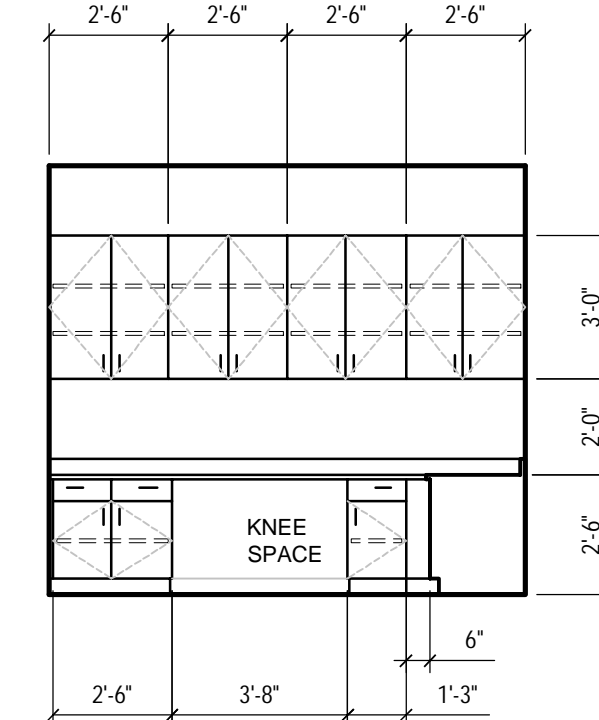
4 VESTIBULE - 103
A7.2 SCALE: 1/4"=1'-0"



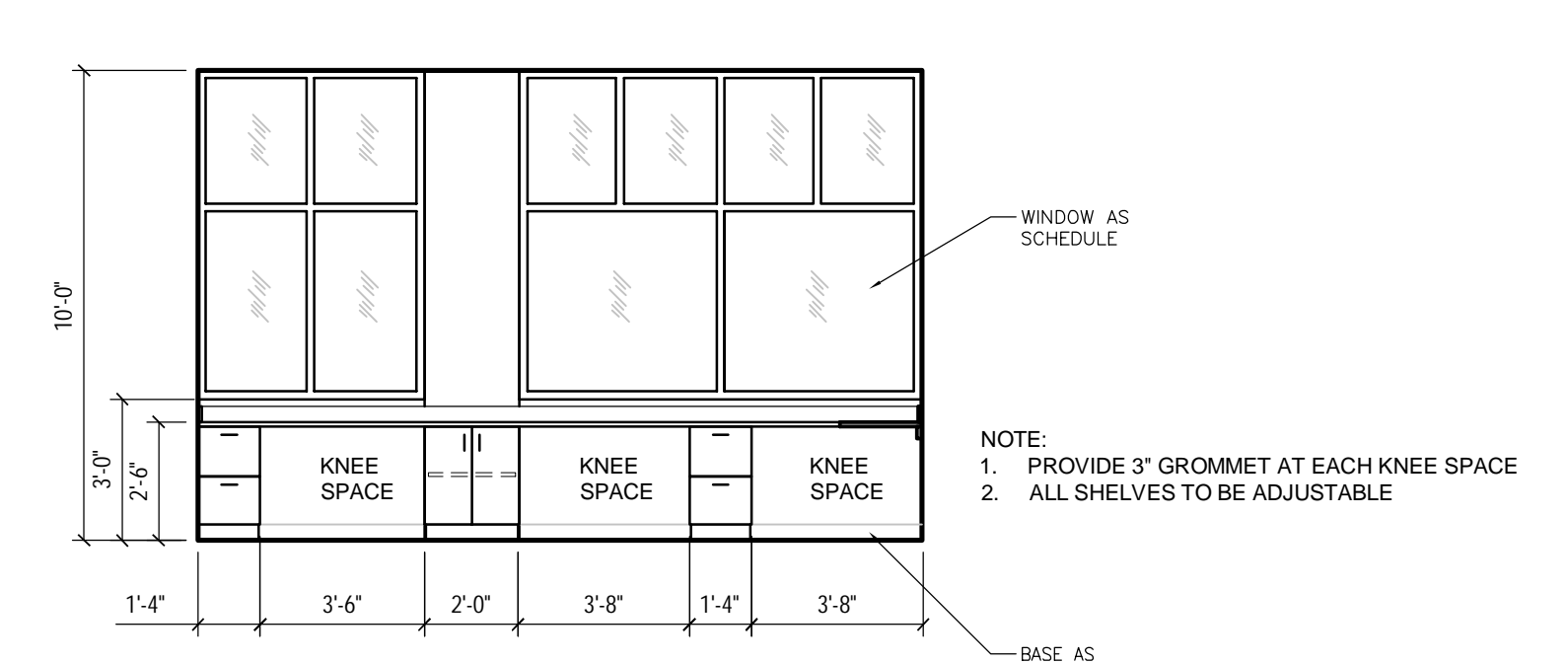
5 DINING - 107
A7.2 SCALE: 1/4"=1'-0"



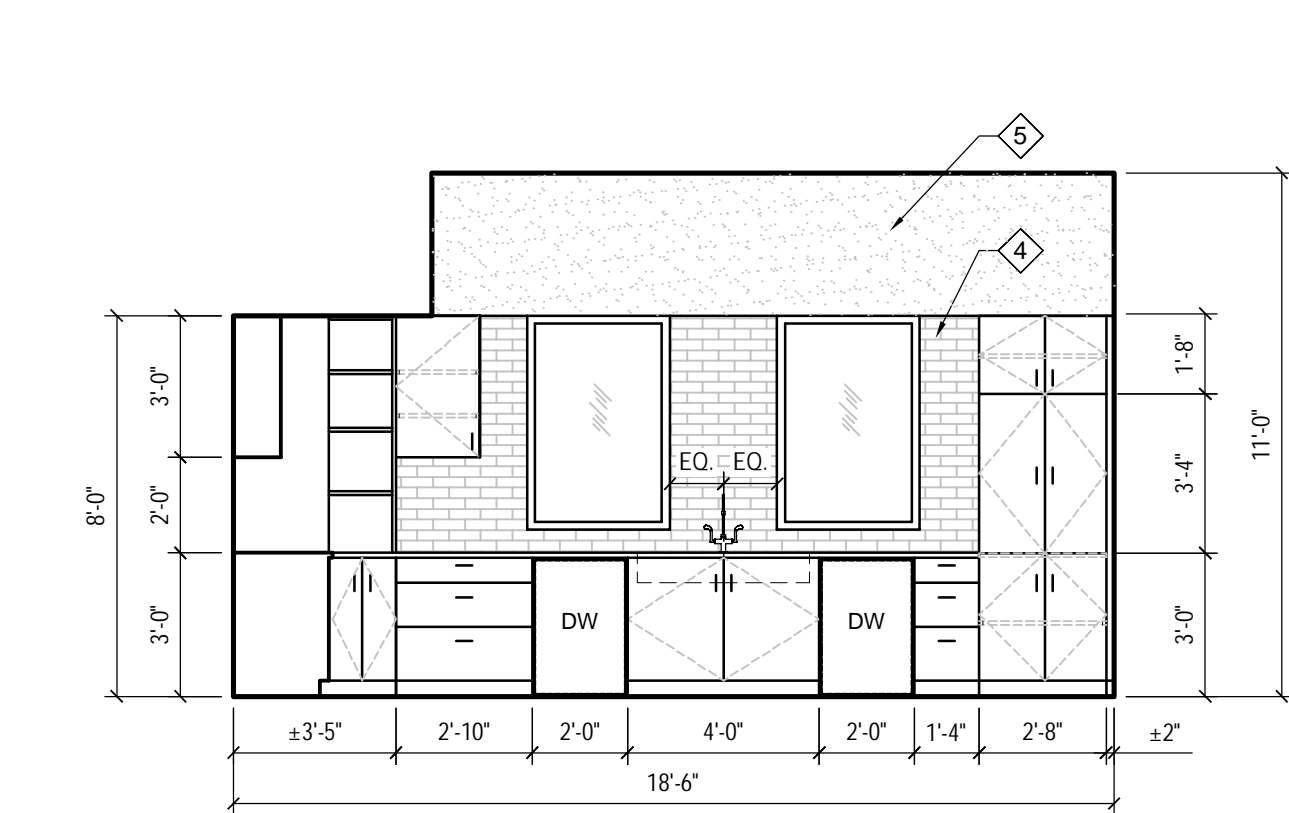
6 SUPPRESSION/
MEDIC OFFICE - 131A/127A
A7.2 SCALE: 1/4"=1'-0"



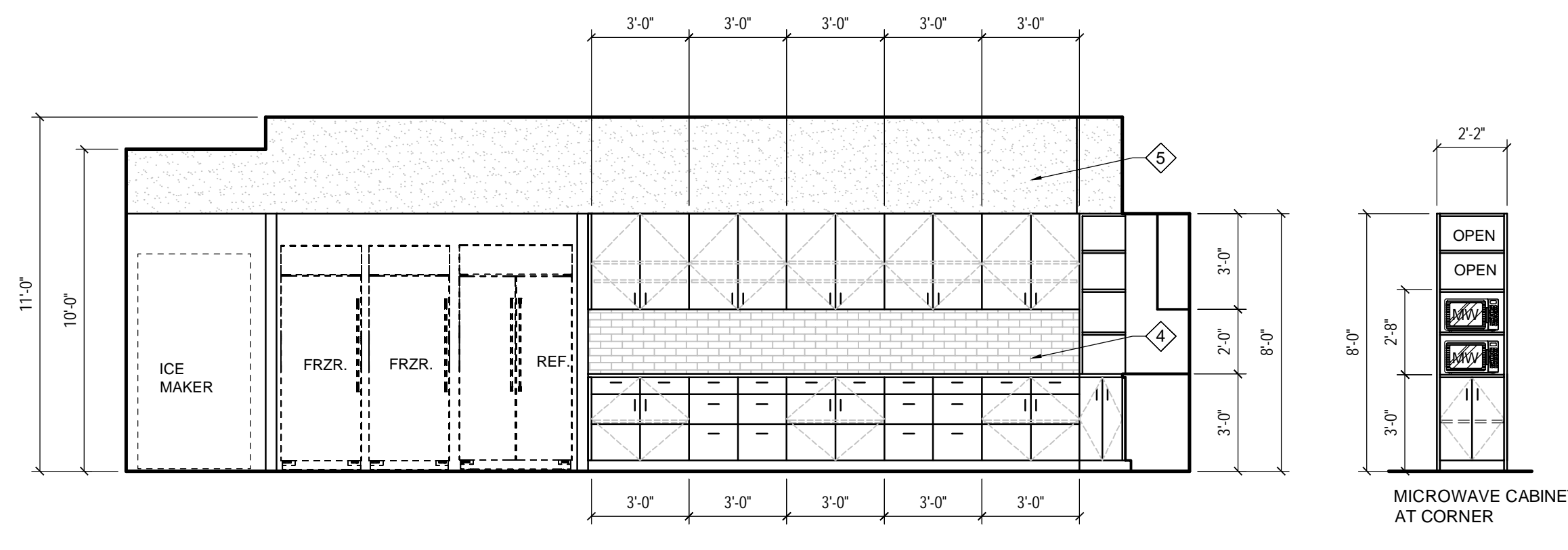
8 COMMAND WATCH - 112
A7.2 SCALE: 1/4"=1'-0"



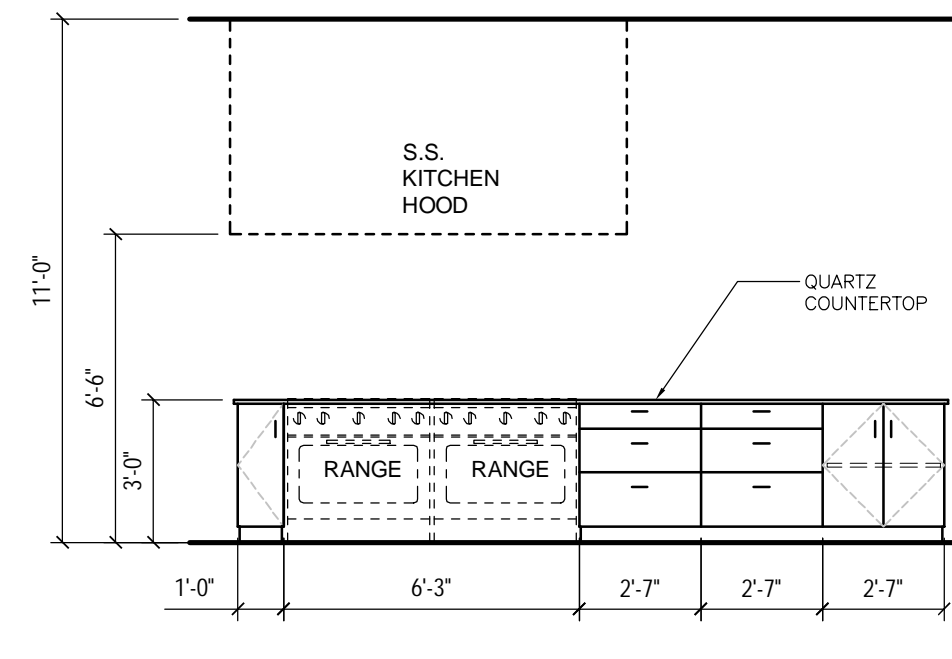
9 COMMAND WATCH - 112
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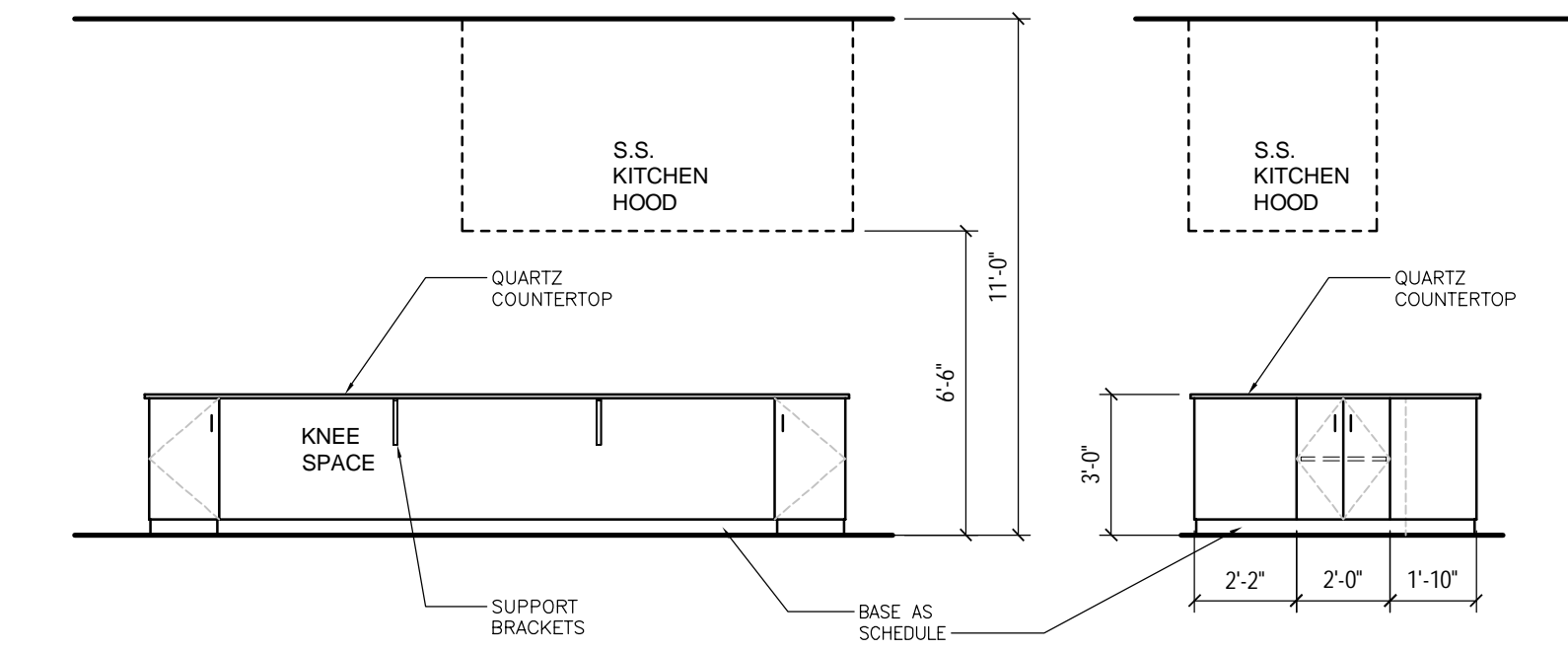
10 KITCHEN - 108
A7.2 SCALE: 1/4"=1'-0"



11 KITCHEN - 108
A7.2 SCALE: 1/4"=1'-0"

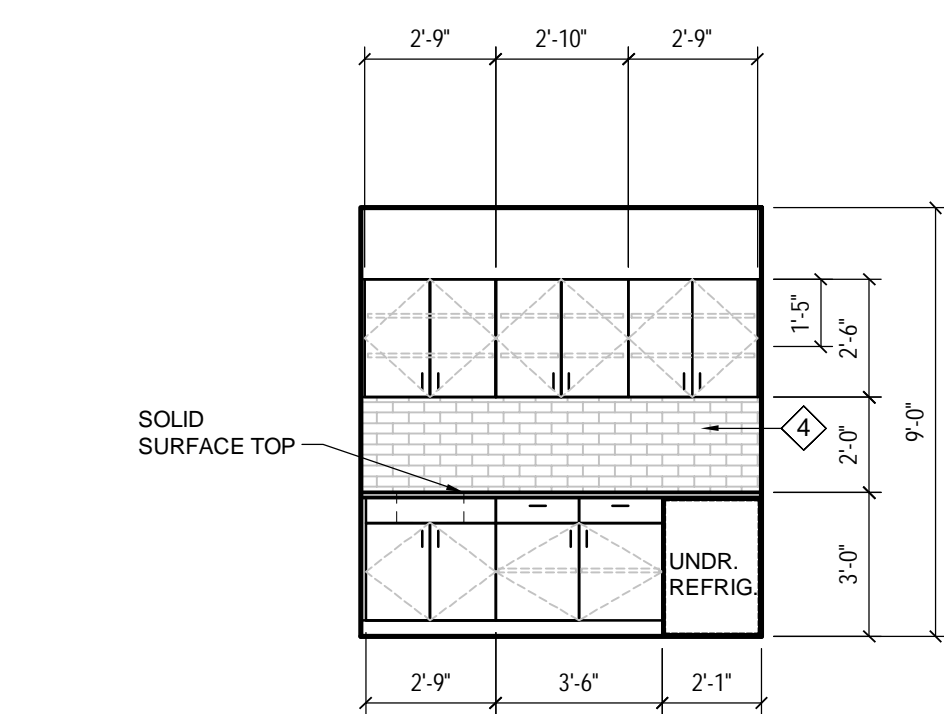


12 ISLAND - 108
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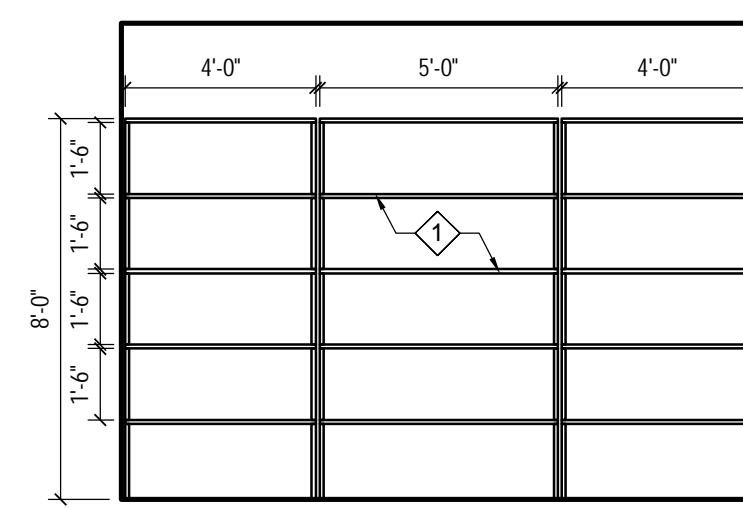


13 ISLAND - 108
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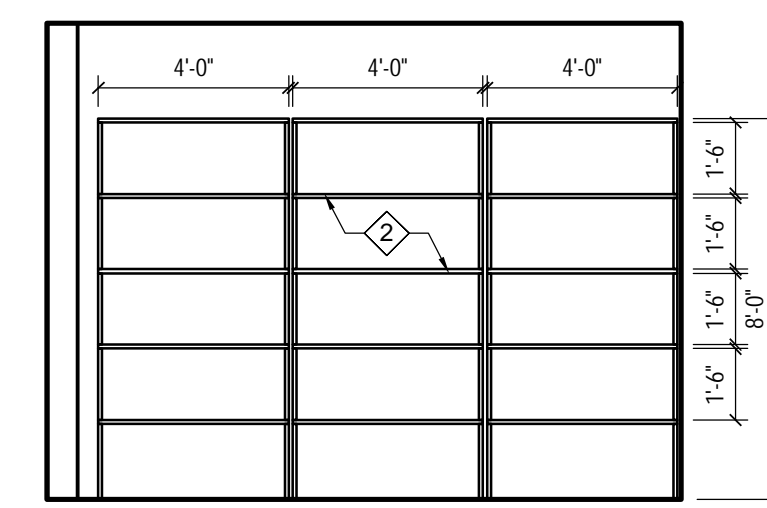
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A7.2



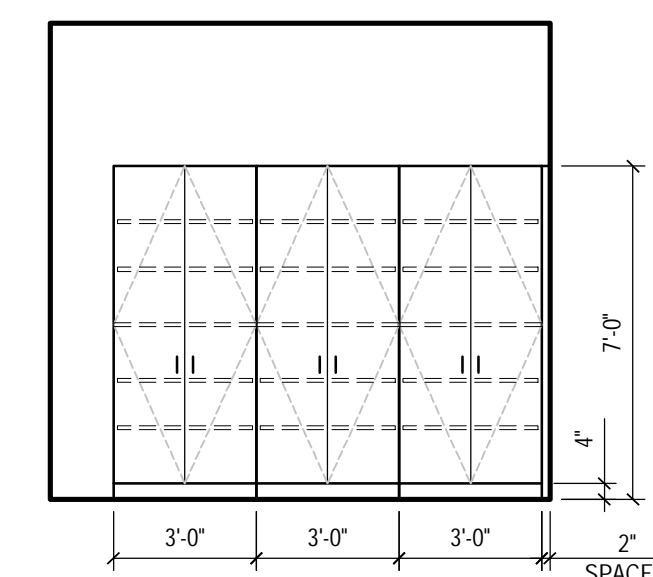
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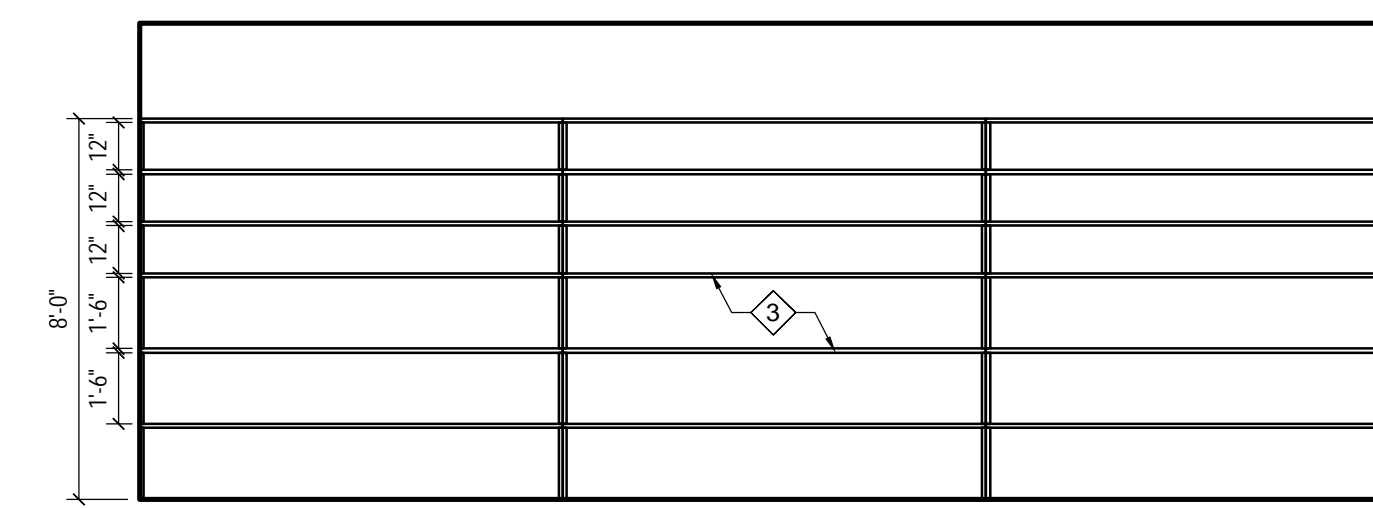
15 BOOTS - 114
A7.2 SCALE: 1/4"=1'-0"



16 WASH ROOM - 116
A7.2 SCALE: 1/4"=1'-0"



17 PANTRY - 110
A7.2 SCALE: 1/4"=1'-0"



18 SUPPLY STATION - 125
A7.2 SCALE: 1/4"=1'-0"

GENERAL NOTES

- ALL CASEWORK TO BE LAMINATE CLAD CASEWORK UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
- COUNTER TOP MATERIALS TO BE (UNLESS NOTED OTHERWISE):
TOILETS & BATHS: SOLID SURFACE
KITCHEN #108: QUARTZ
ALL OTHER SPACES: PLASTIC LAMINATE

KEYNOTES

- 20" DEEP, FREESTANDING, HEAVY DUTY STAINLESS STEEL WIRE SHELVING
- 16" DEEP, FREESTANDING, HEAVY DUTY STAINLESS STEEL WIRE SHELVING
- 18" DEEP, WALL MOUNTED, HEAVY DUTY PLASTIC LAMINATE SHELVING BY CASEWORK SUPPLIER
- FULL HEIGHT PCT BACKSPLASH
- GYPSUM BOARD SOFFIT

REVISIONS	No.	Description	Date
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B	ISSUED FOR PERMITS		08/17/2023
1	ISSUED FOR BID		08/02/23

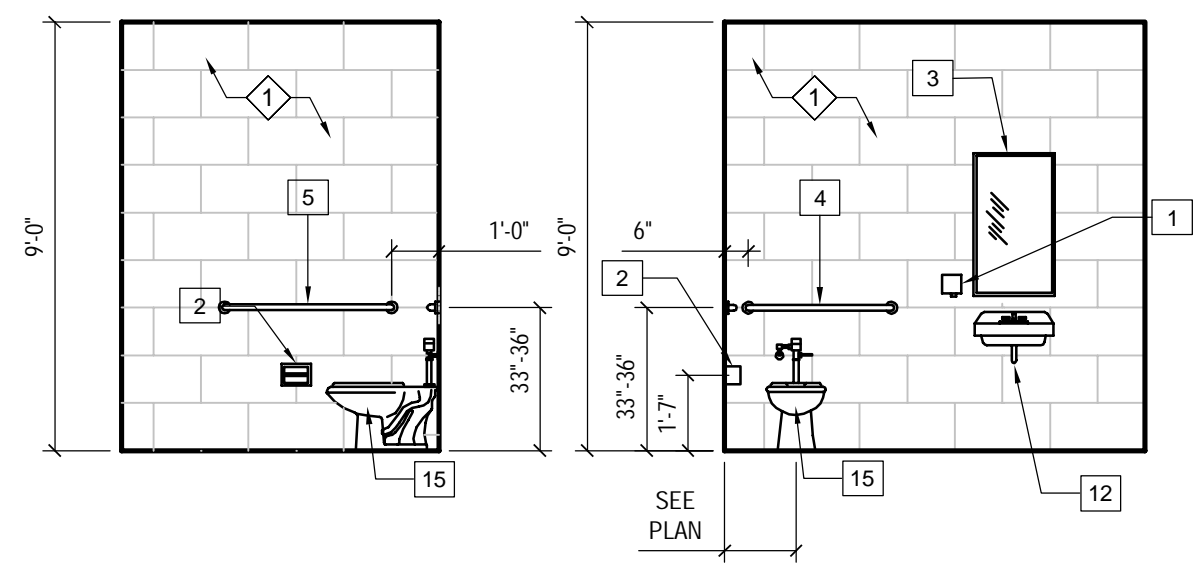
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BDW Project No. 2021-118
Drawn By: BDW
Date: AS NOTED
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Drawing Title:

INTERIOR
ELEVATIONS

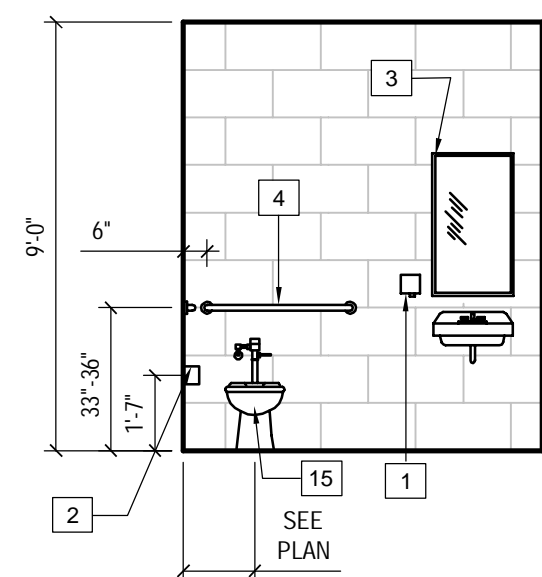
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A7.2

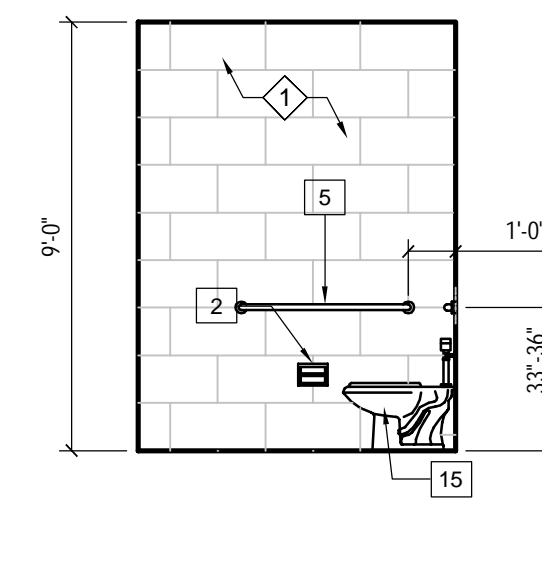
CONFORMANCE
DOCUMENTS



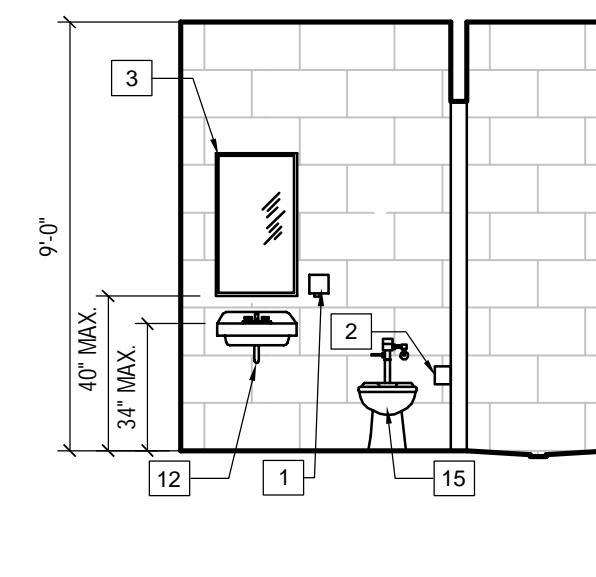
1 TOILET-178 -178
A7.3 SCALE: 1/4"=1'-0"



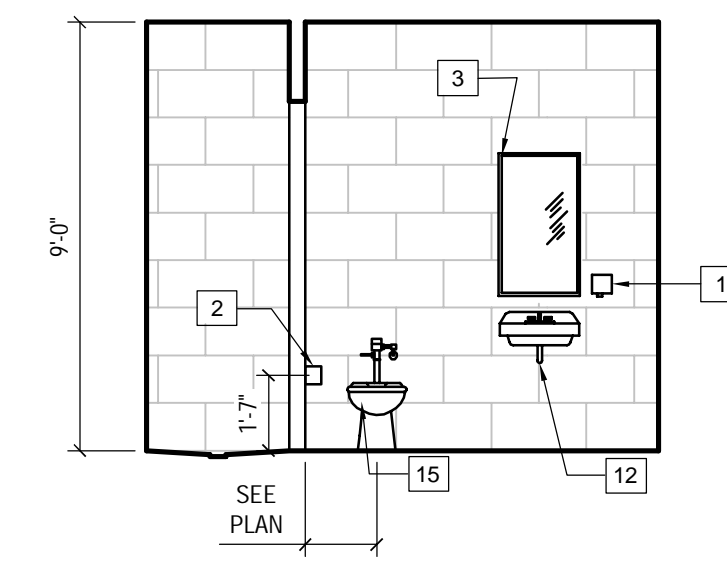
3 TOILET-105
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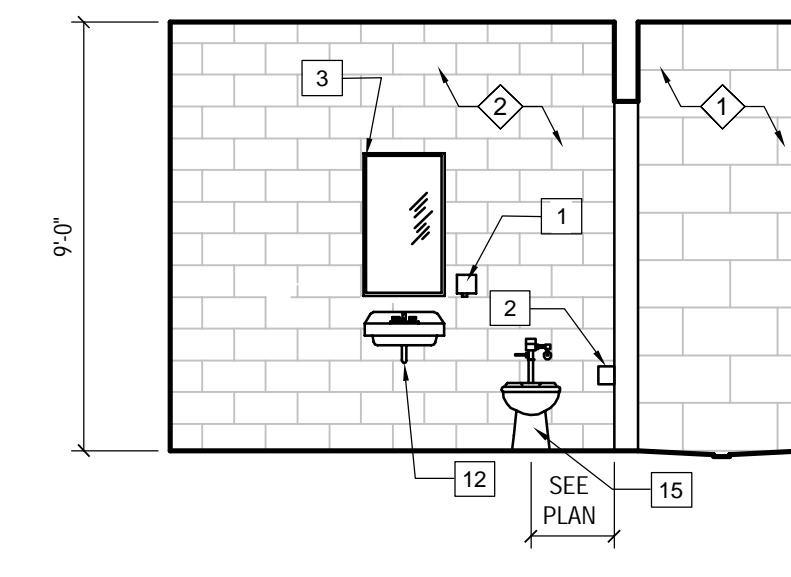
4 TOILET-105
A7.3 SCALE: 1/4"=1'-0"



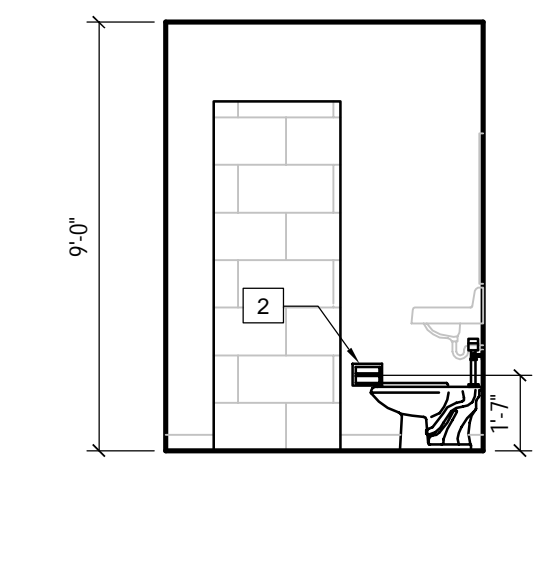
5 TOILET-139
A7.3 SCALE: 1/4"=1'-0"



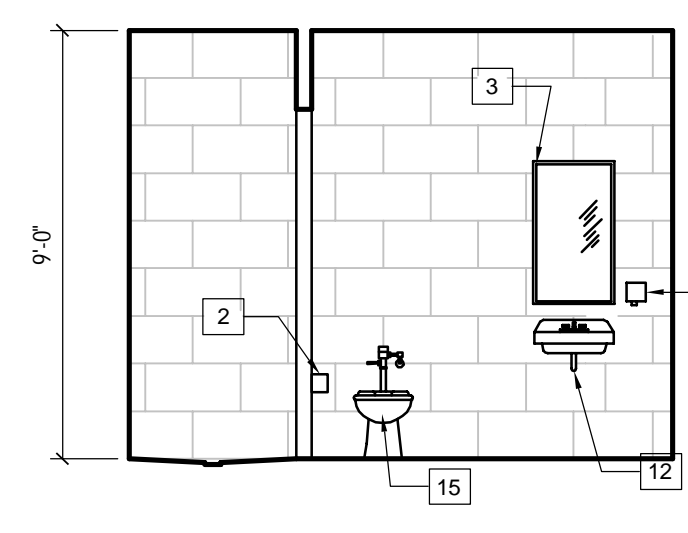
6 TOILET-139
A7.3 SCALE: 1/4"=1'-0"



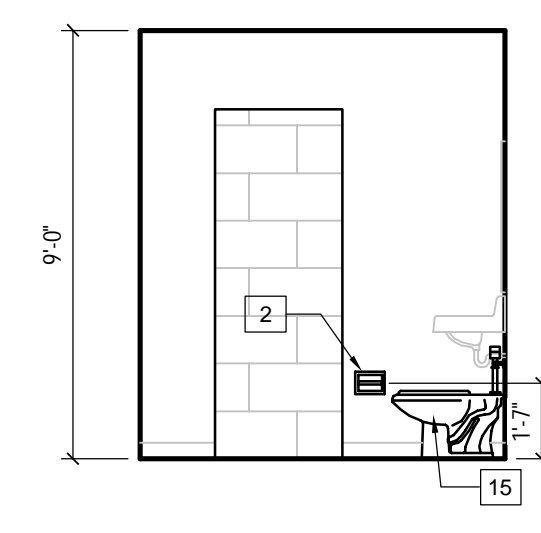
7 TOILET-118
A7.3 SCALE: 1/4"=1'-0" 117 REVERSED



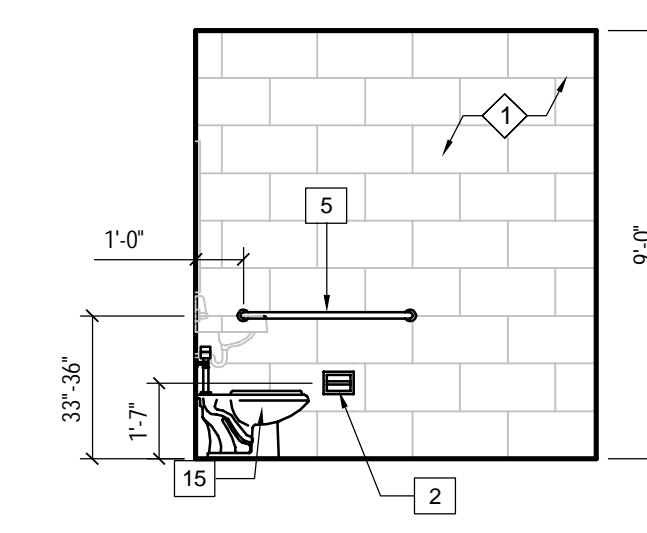
8 TOILET-164
A7.3 SCALE: 1/4"=1'-0"



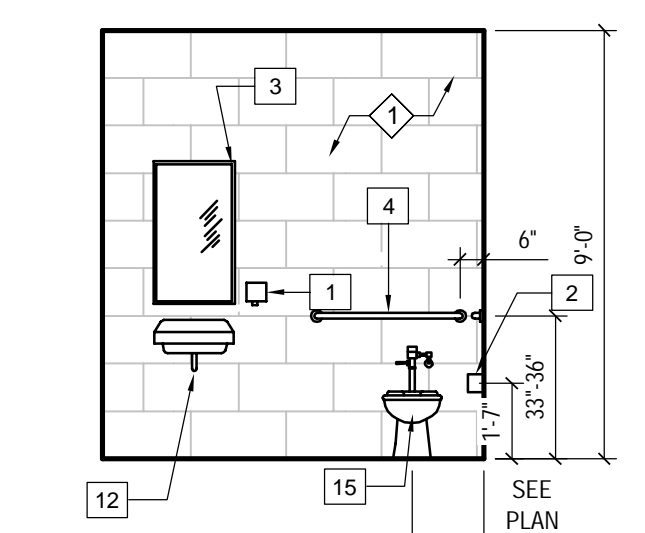
9 TOILET-165
A7.3 SCALE: 1/4"=1'-0"



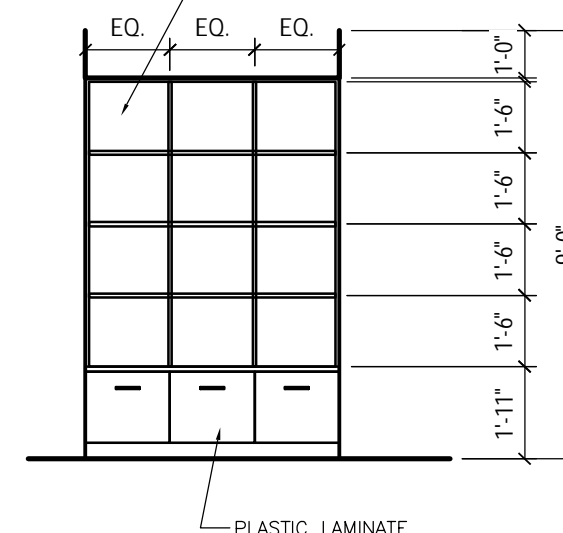
10 TOILET-165
A7.3 SCALE: 1/4"=1'-0"



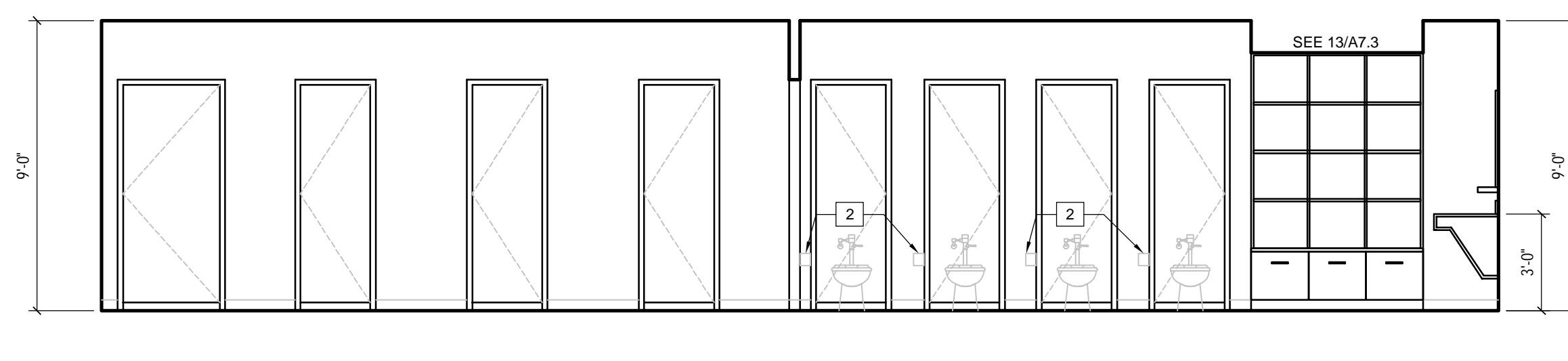
11 TOILET-102
A7.3 SCALE: 1/4"=1'-0"



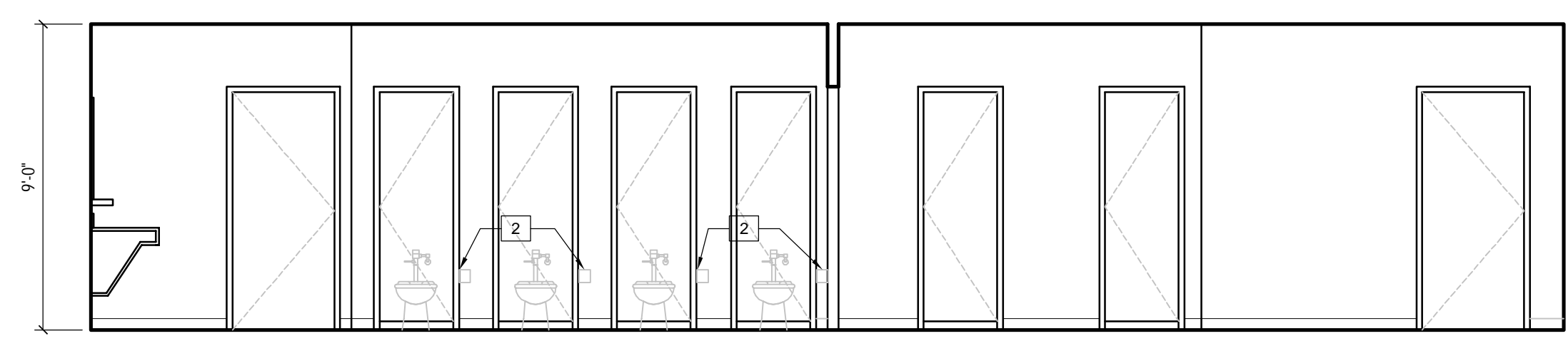
12 TOILET-102
A7.3 SCALE: 1/4"=1'-0"



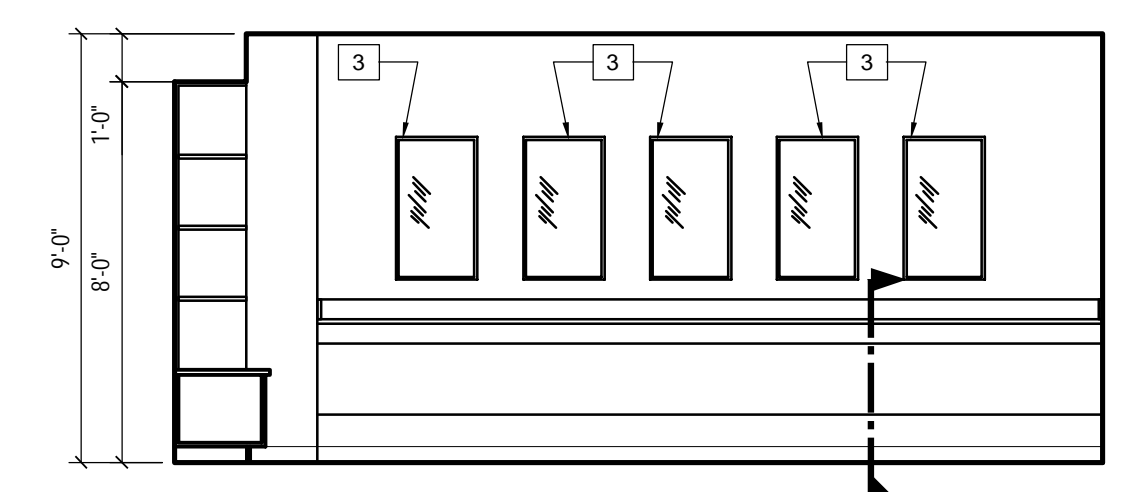
13 TOILET
A7.3 SCALE: 1/4"=1'-0"



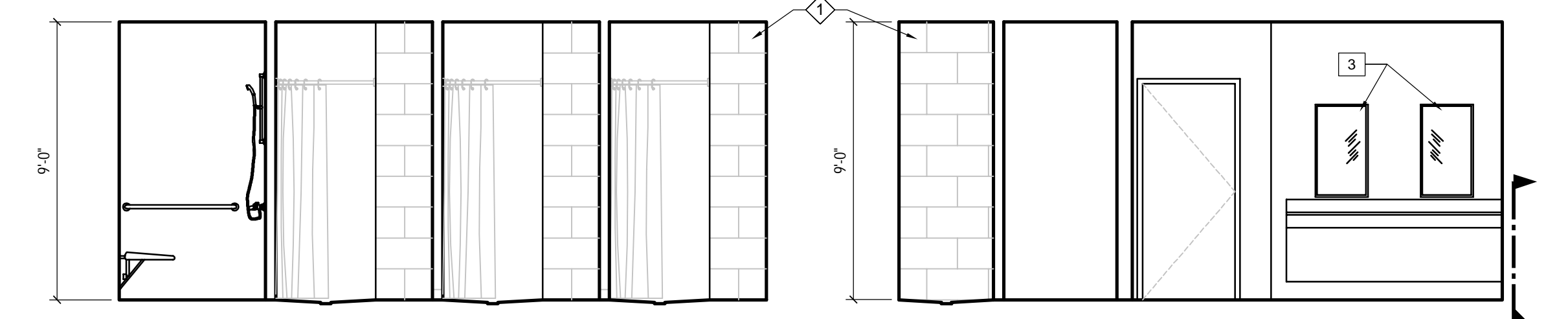
14 COMMON BATH 156
A7.3 SCALE: 1/4"=1'-0"



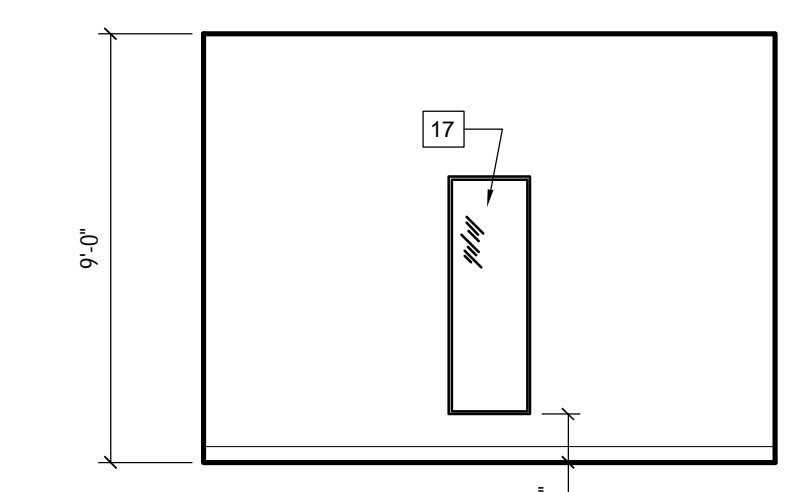
15 COMMON BATH 156
A7.3 SCALE: 1/4"=1'-0"



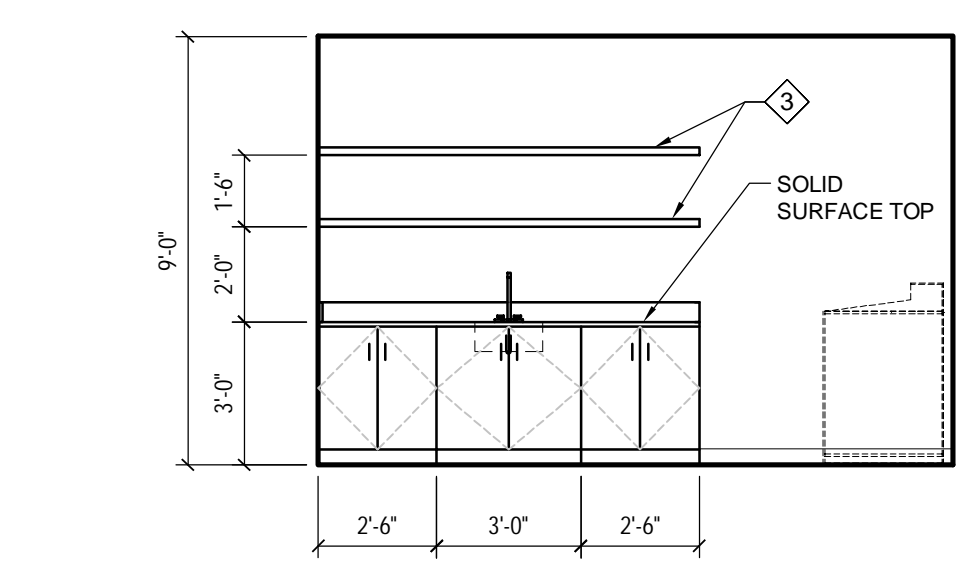
16 COMMON BATH 156 B
A7.3 SCALE: 1/4"=1'-0"



17 COMMON BATH 156 A
A7.3 SCALE: 1/4"=1'-0"



19 COMMON BATH 156 A
A7.3 SCALE: 1/4"=1'-0"



20 EXTRACTOR/LAUNDRY
A7.3 SCALE: 1/4"=1'-0"

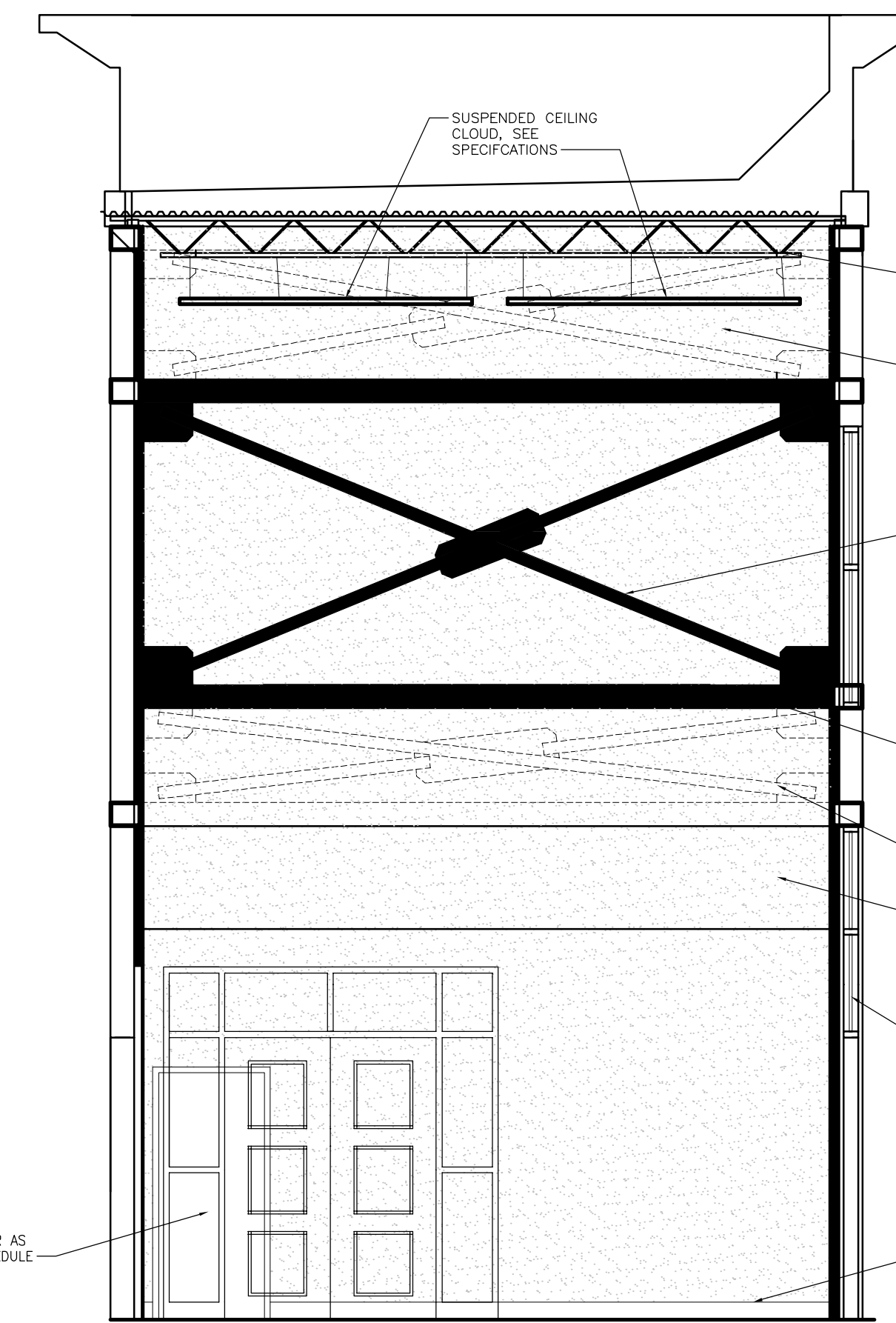
TOILET ACCESSORY INDEX		
SYMBOL	ACCESSORY	MOUNTING HEIGHT
1	WALL MOUNTED SOAP DISPENSER	40" TO DISPENSING MECHANISM
2	TOILET TISSUE DISPENSER (SURFACE-MOUNTED)	28" AFF TO TOP OF UNIT
3	18" x 36" PLATE GLASS MIRROR WITH FRAME	40" TO BOTTOM OF REFLECTIVE SURFACE
4	GRAB BAR 36"	36" AFF TO TOP OF BAR
5	GRAB BAR 42"	36" AFF TO TOP OF BAR
6	GRAB BAR 18" (WHERE APPLICABLE)	SEE ELEVATIONS
7	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	42" TO DISPENSER - SEE C/A7.2
8	NOT USED	
9	METAL COAT HOOK	48" TO HOOK, ON INSIDE FACE OF DOOR
10	SANITARY NAPKIN DISPOSER (WHERE APPLICABLE)	28" AFF TO TOP OF UNIT
11	ADJUSTABLE SHELVING	
12	INSULATED PIPE, TYP.	
13	ACCESSIBLE FOLDING SEAT	
14	STAINLESS STEEL UTILITY SHELF W/ 4 MOP HOLDERS	
15	FLUSH VALVE TOILET	
16	UTILITY HOOKS	
17	24" x 60" FRAMED PLATE GLASS MIRROR	12" TO BOTTOM OF REFLECTIVE SURFACE

GENERAL NOTES

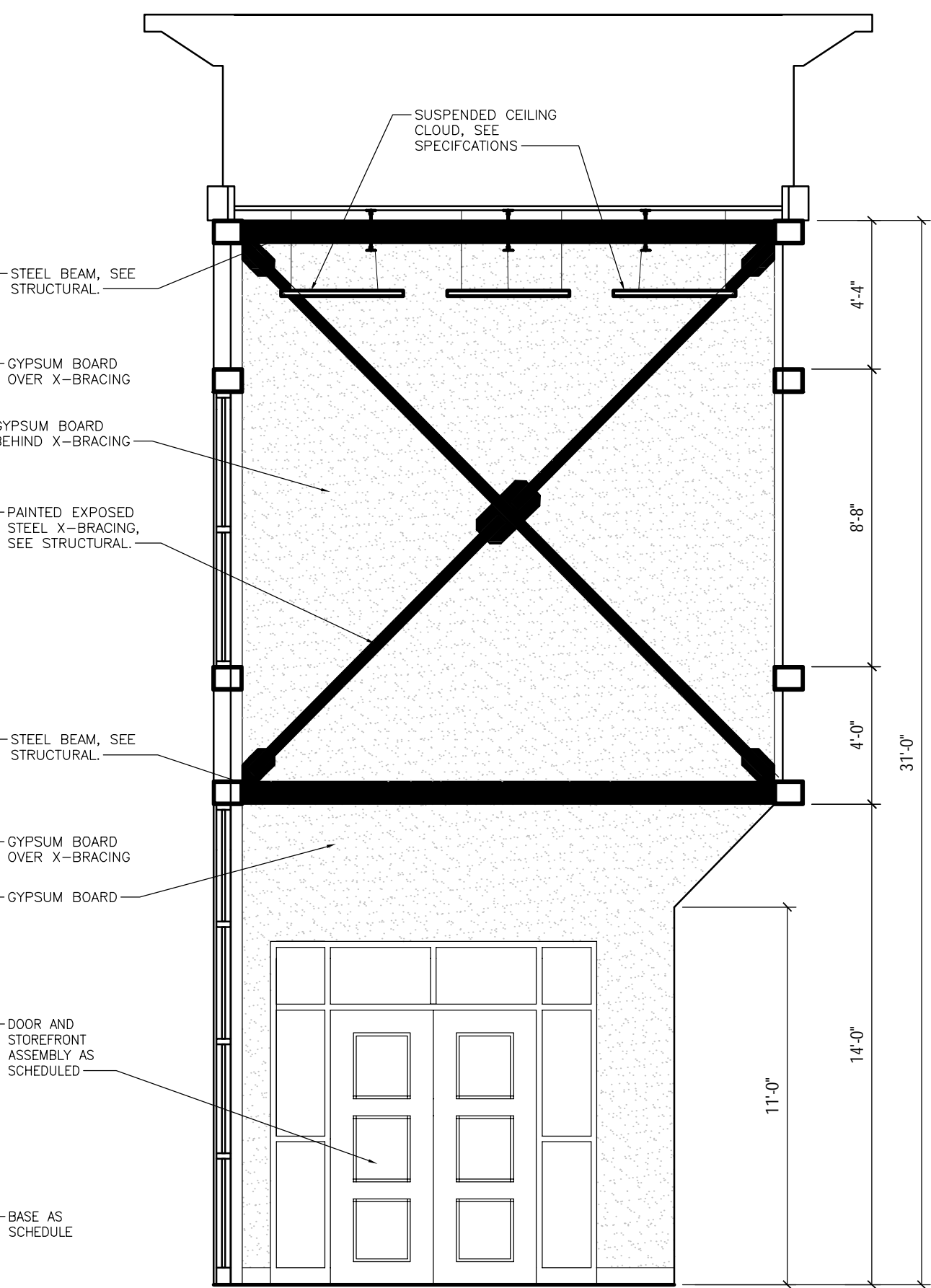
- ALL CASEWORK TO BE LAMINATE CLAD CASEWORK UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
- COUNTER TOP MATERIALS TO BE (UNLESS NOTED OTHERWISE):
TOILETS & BATHS: SOLID SURFACE
KITCHEN #108: QUARTZ
ALL OTHER SPACES: PLASTIC LAMINATE

KEYNOTES

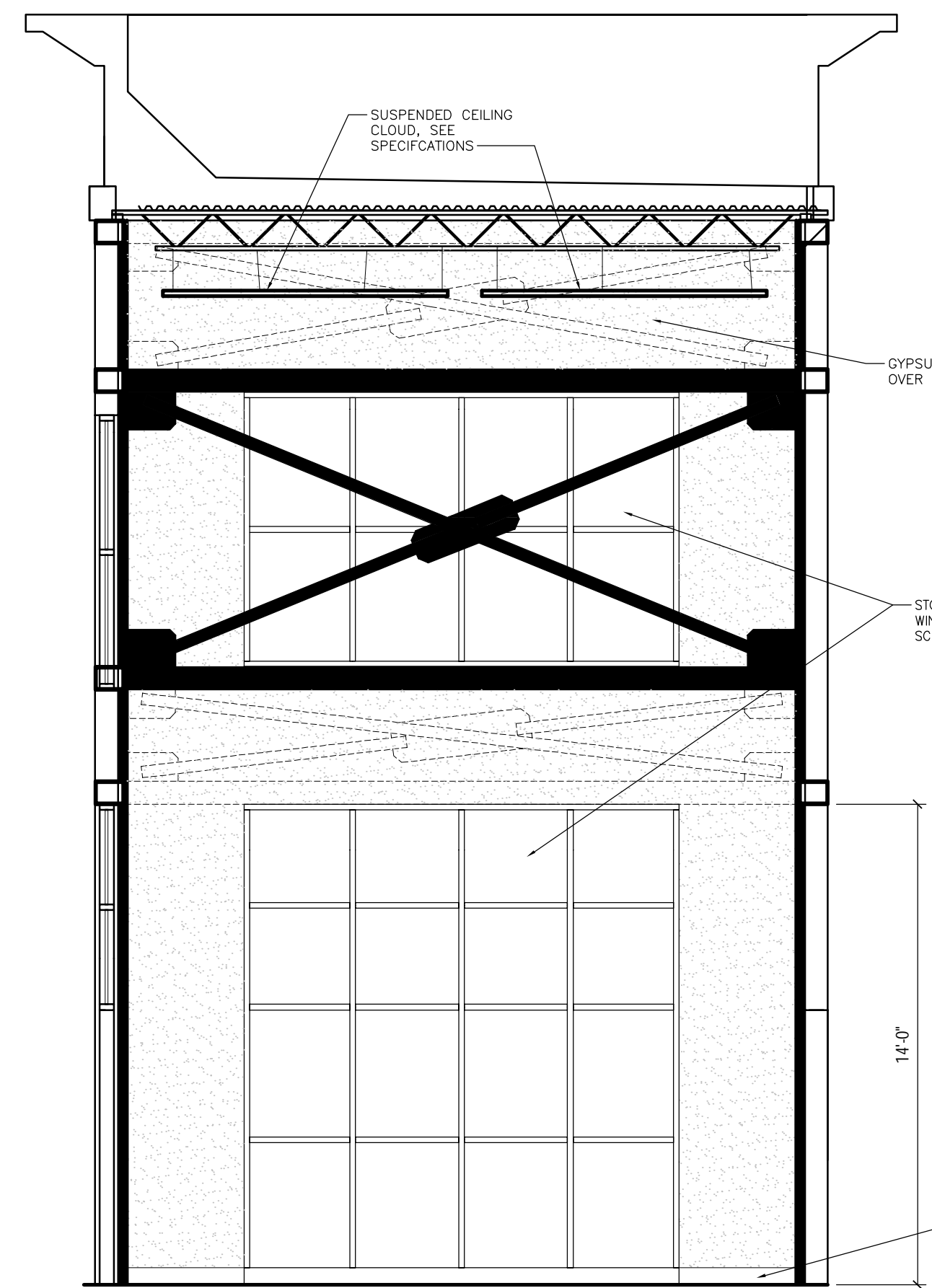
- PORCELAIN TILE 12" x 24"
- PAINTED CONCRETE MASONRY UNITS
- 12" DEEP COATED WIRE SHELVES



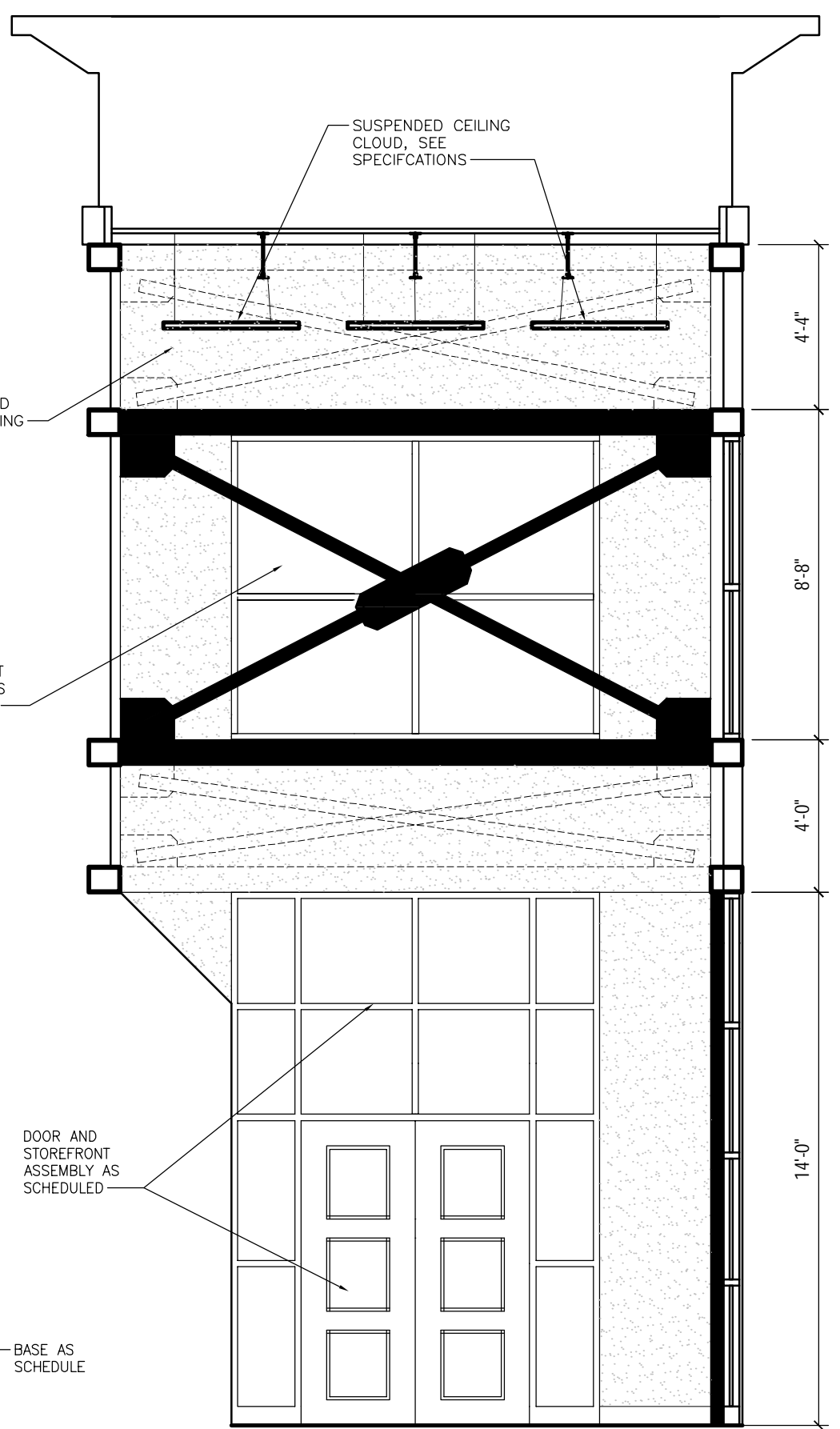
20 PUBLIC LOBBY 101
A7.3 SCALE: 1/4"=1'-0"



21 PUBLIC LOBBY 101
A7.3 SCALE: 1/4"=1'-0"



22 PUBLIC LOBBY 101
A7.3 SCALE: 1/4"=1'-0"



23 PUBLIC LOBBY 101
A7.3 SCALE: 1/4"=1'-0"

REVISIONS	No.	Description	Date
1	Construction Documents		02-03-2023
2	Performance Documents		05-17-2023

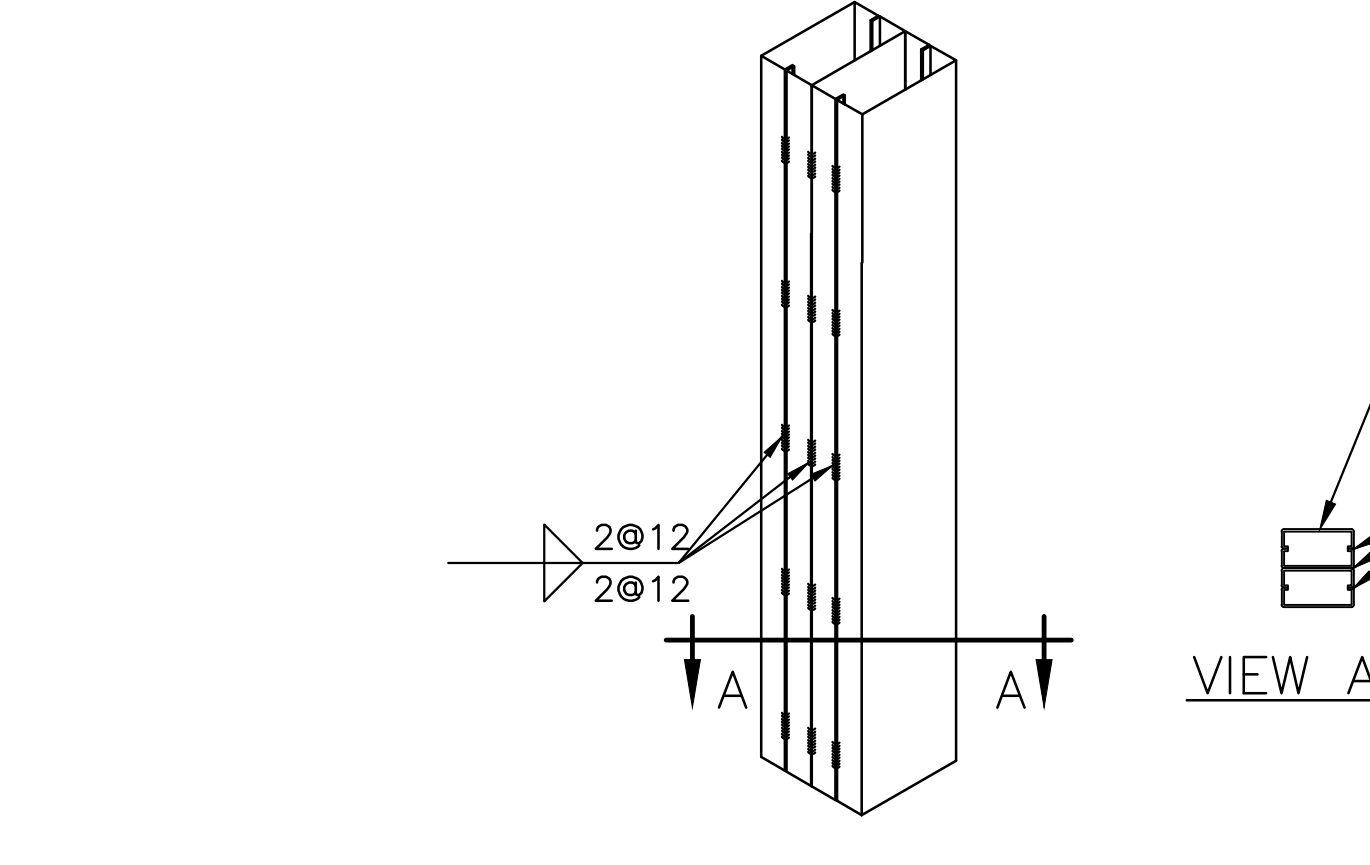
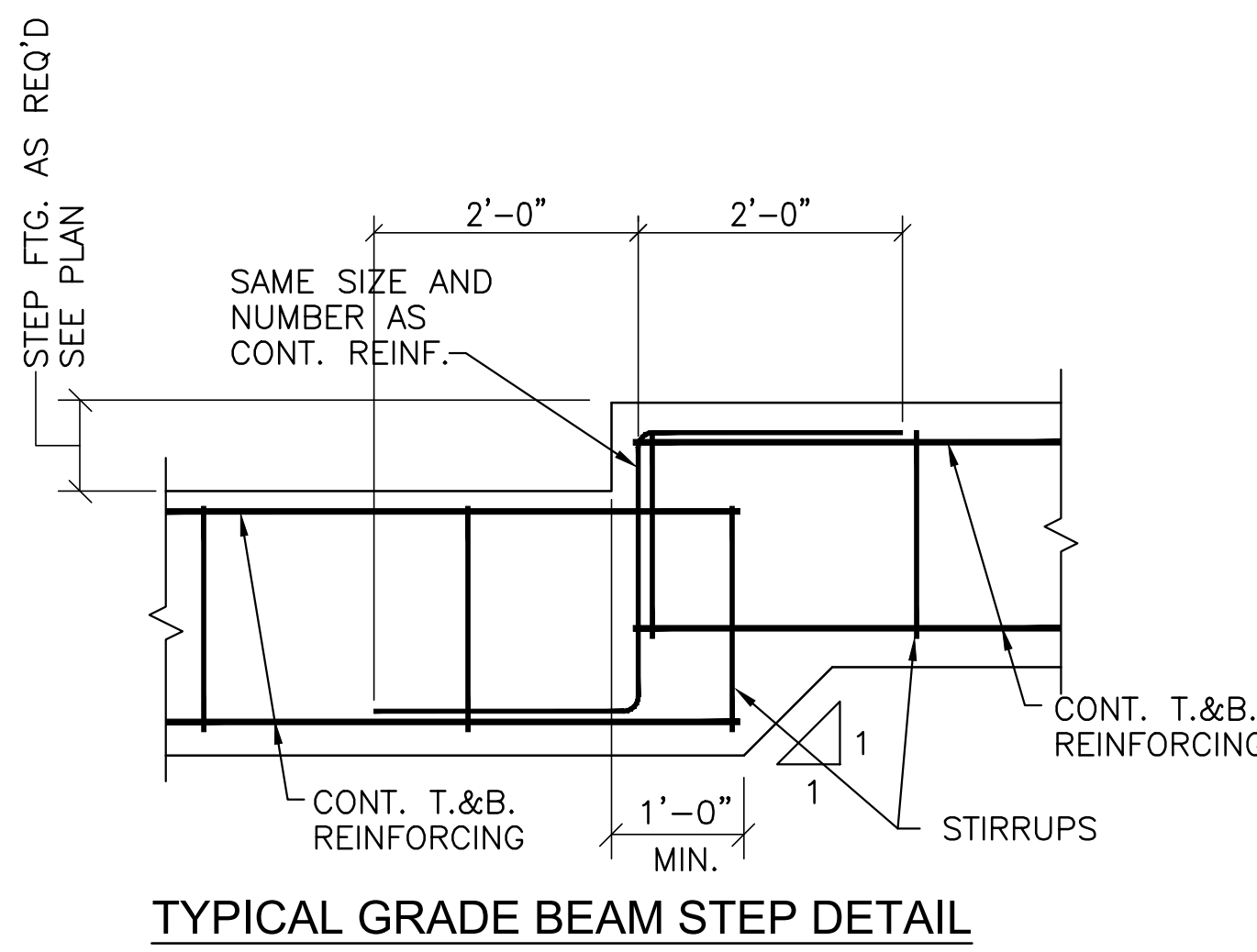
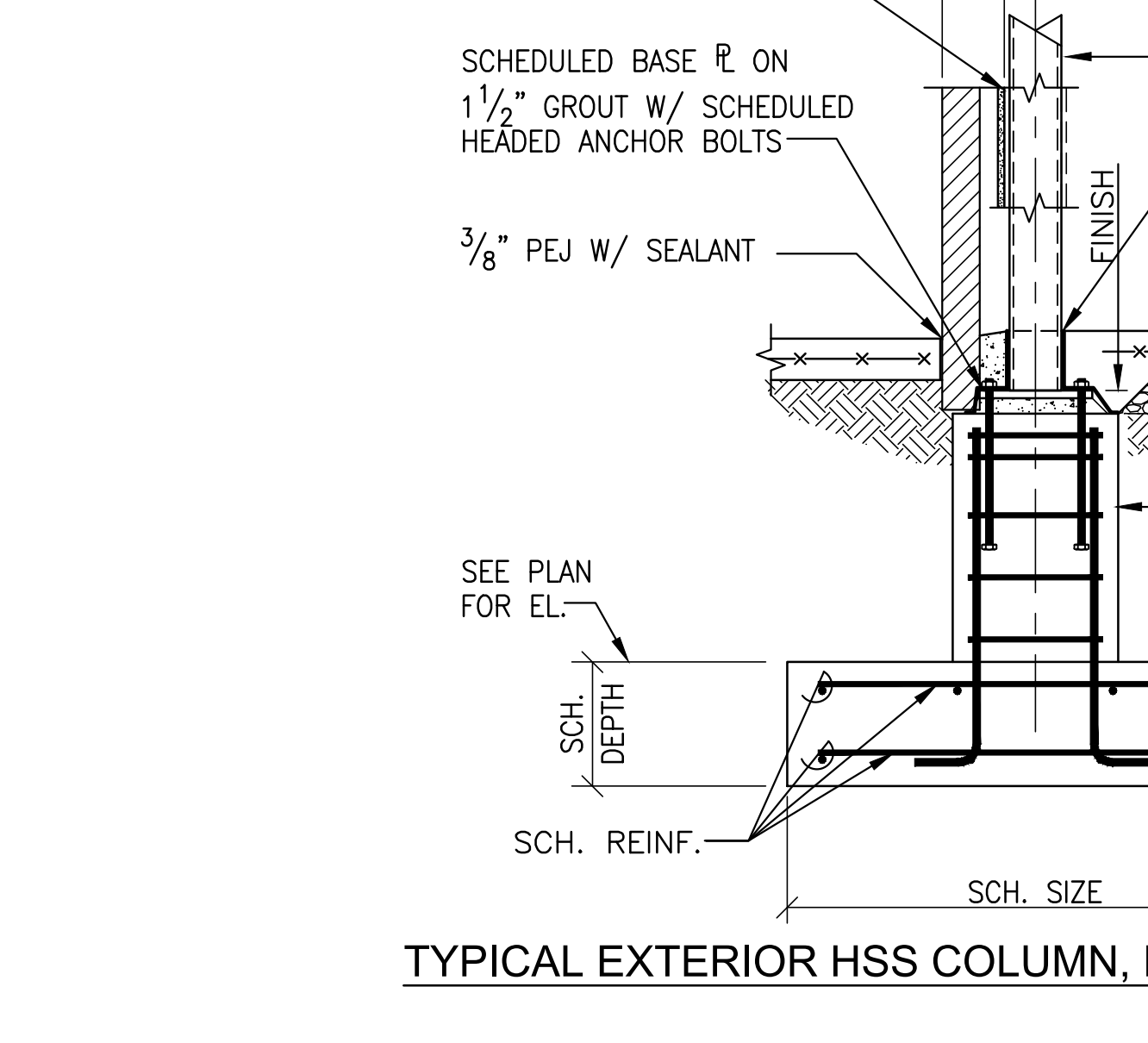
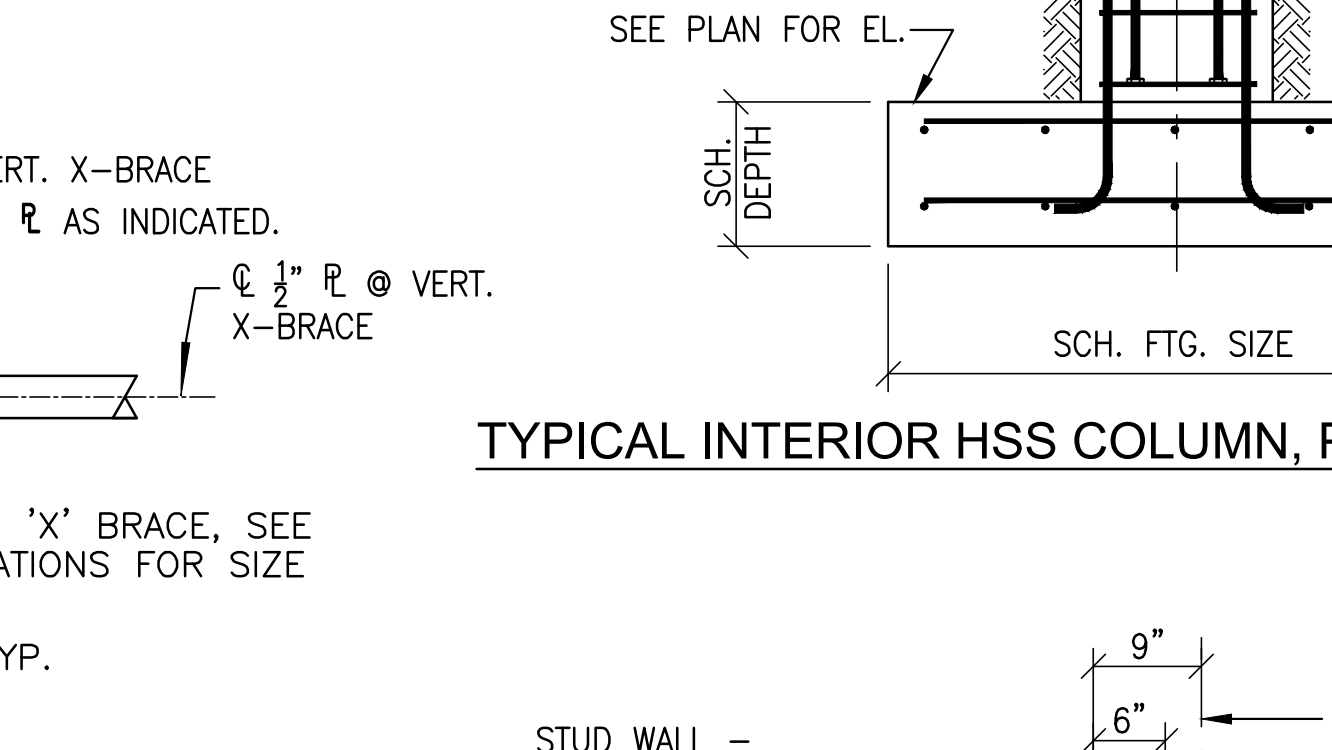
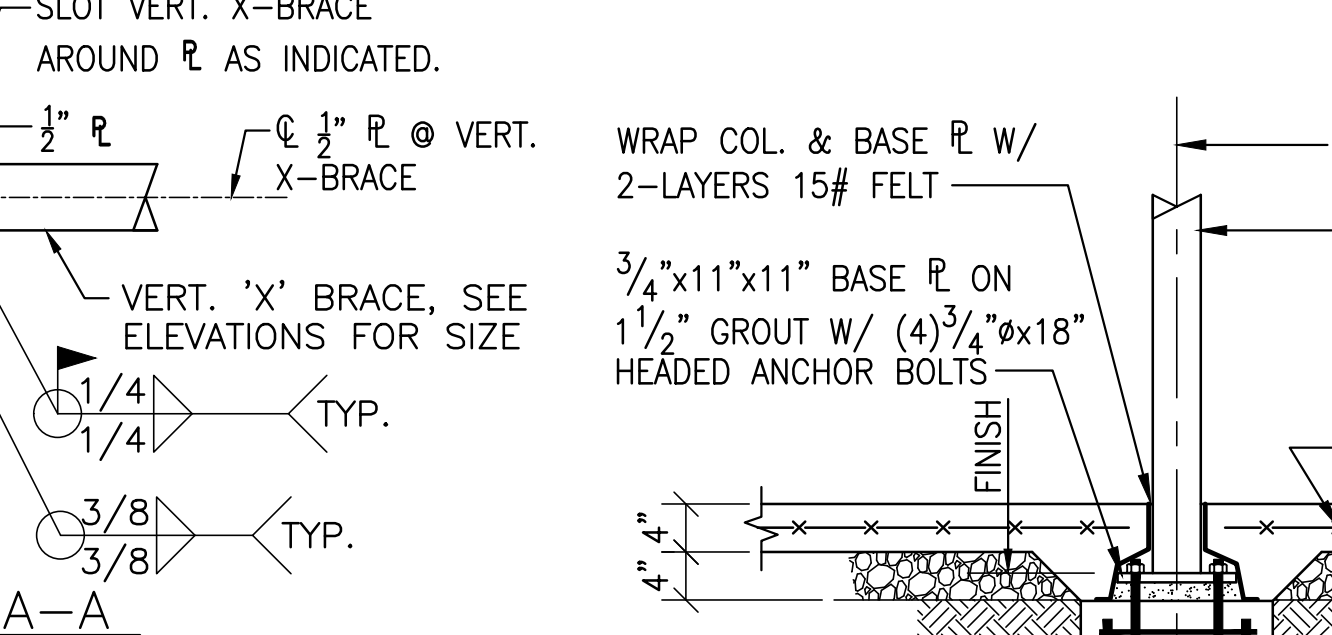
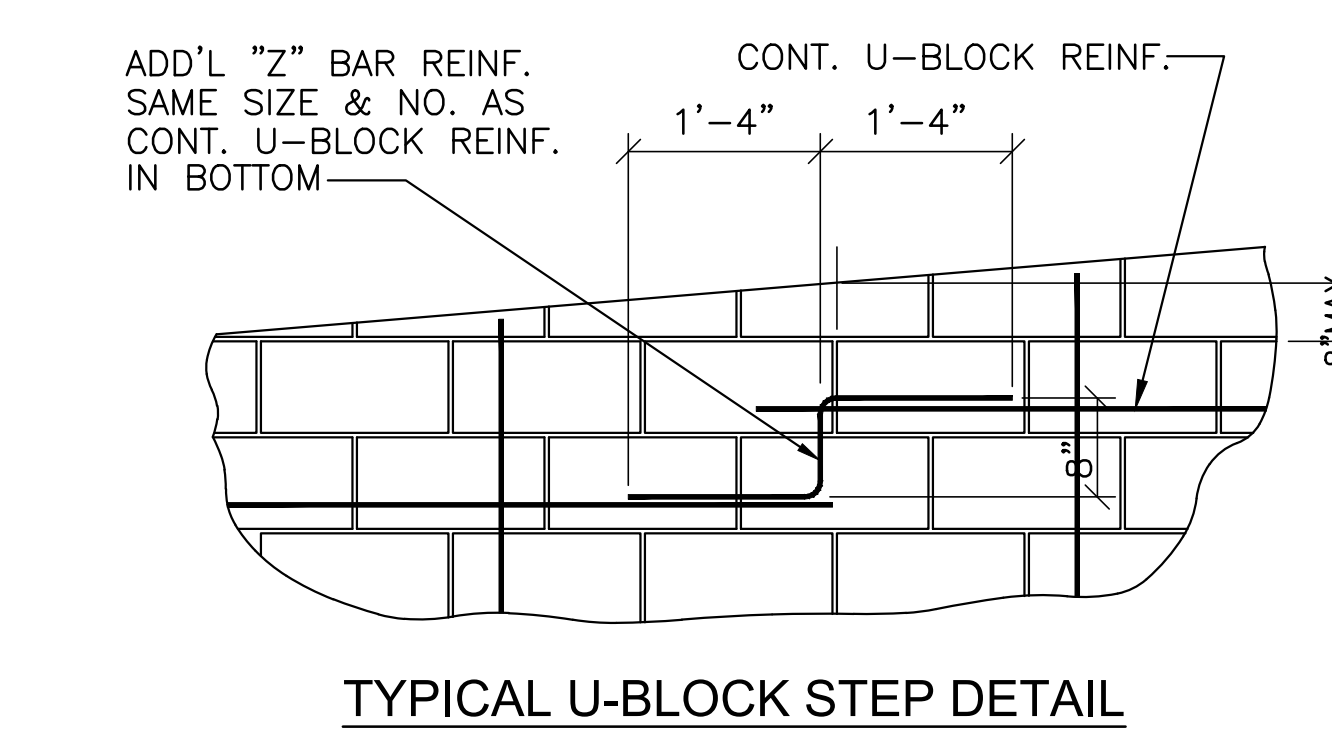
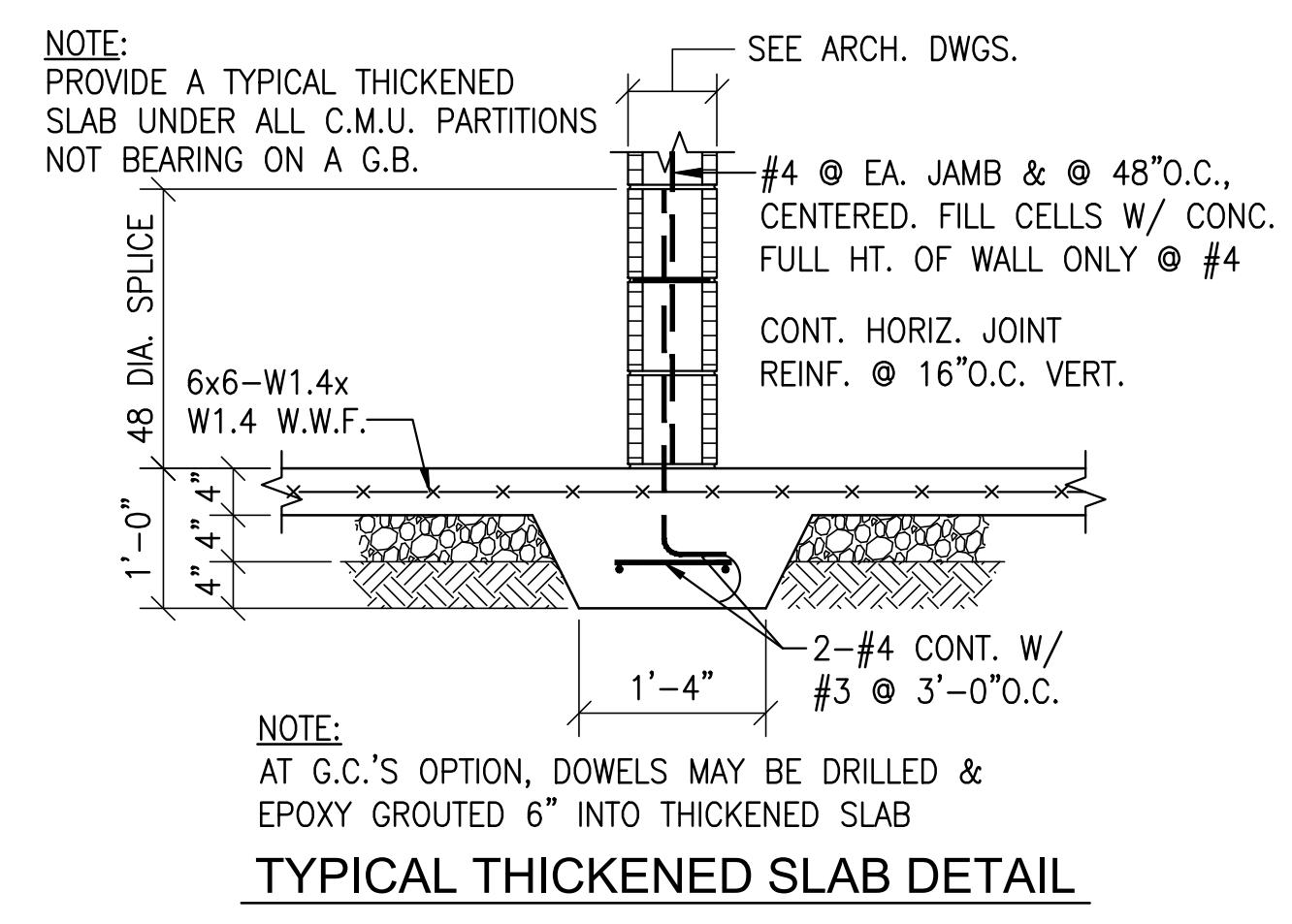
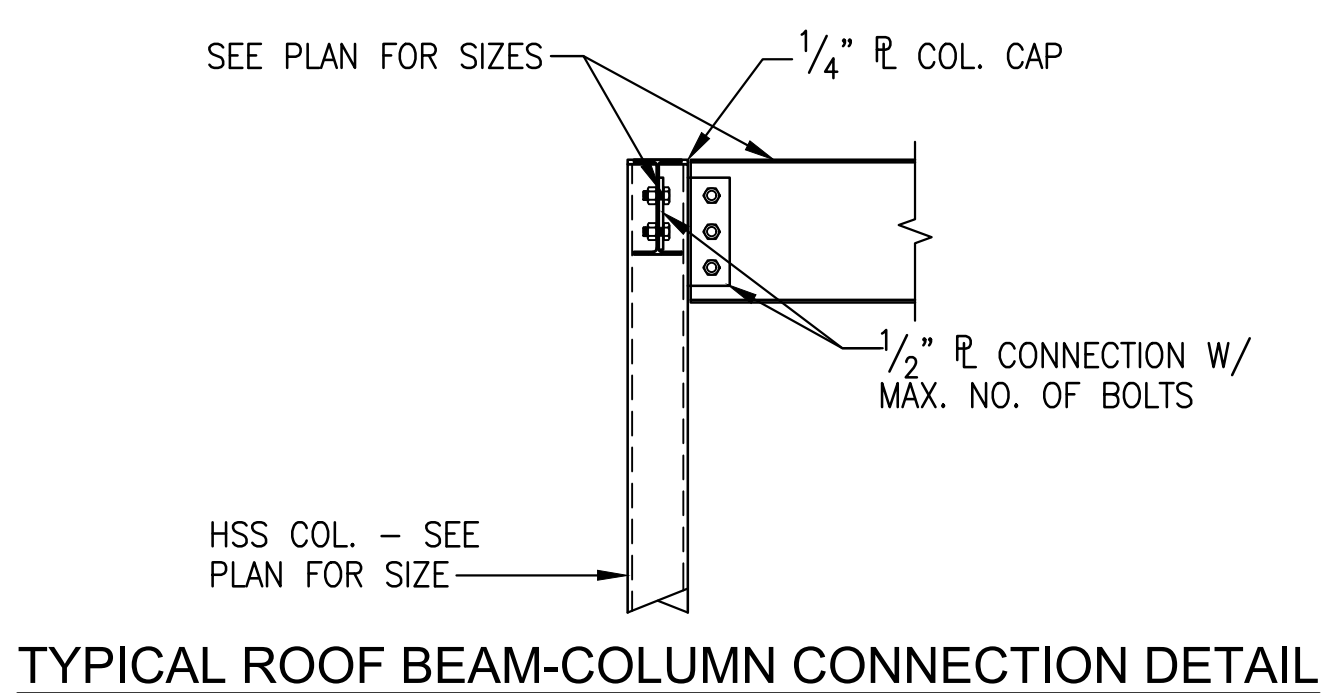
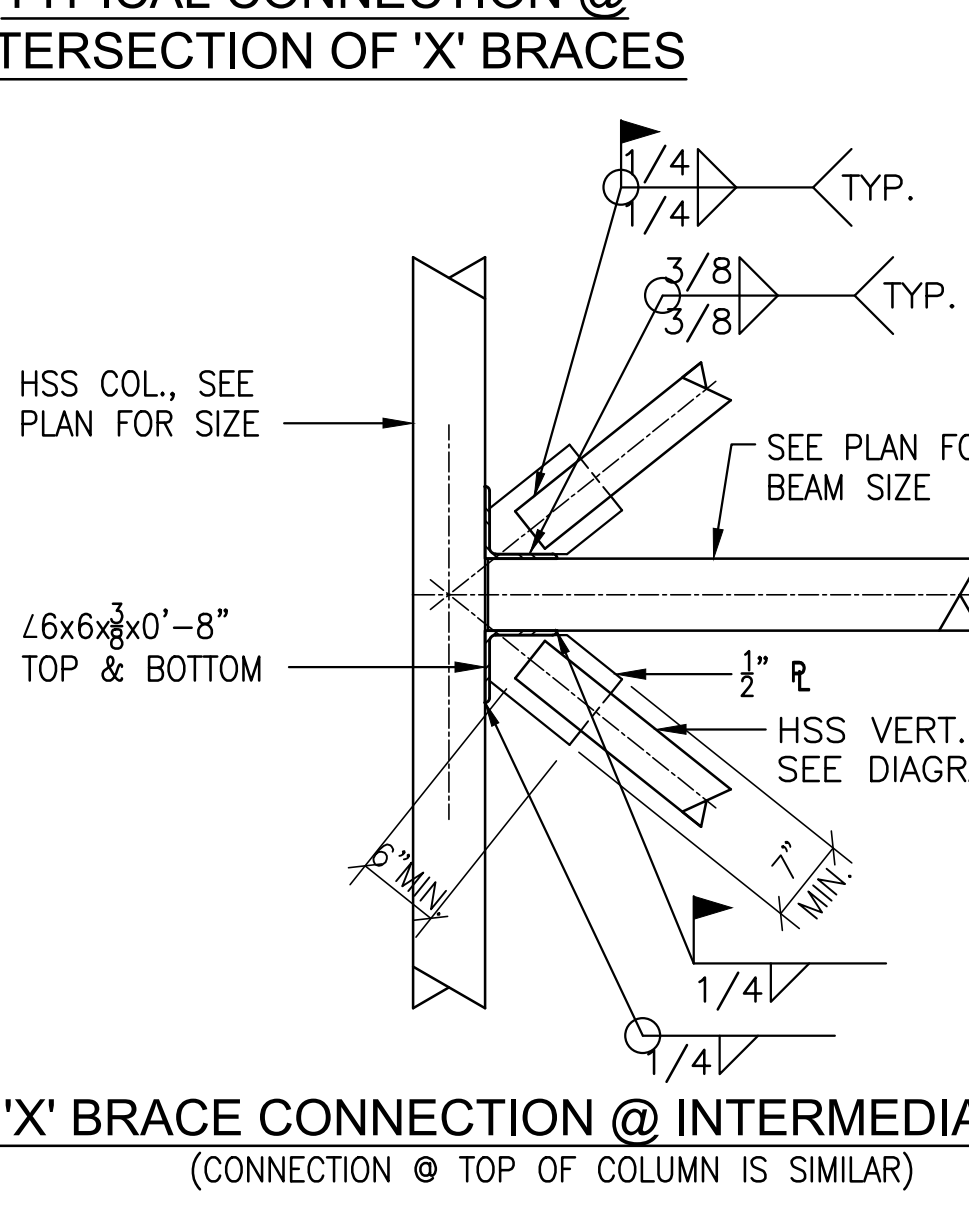
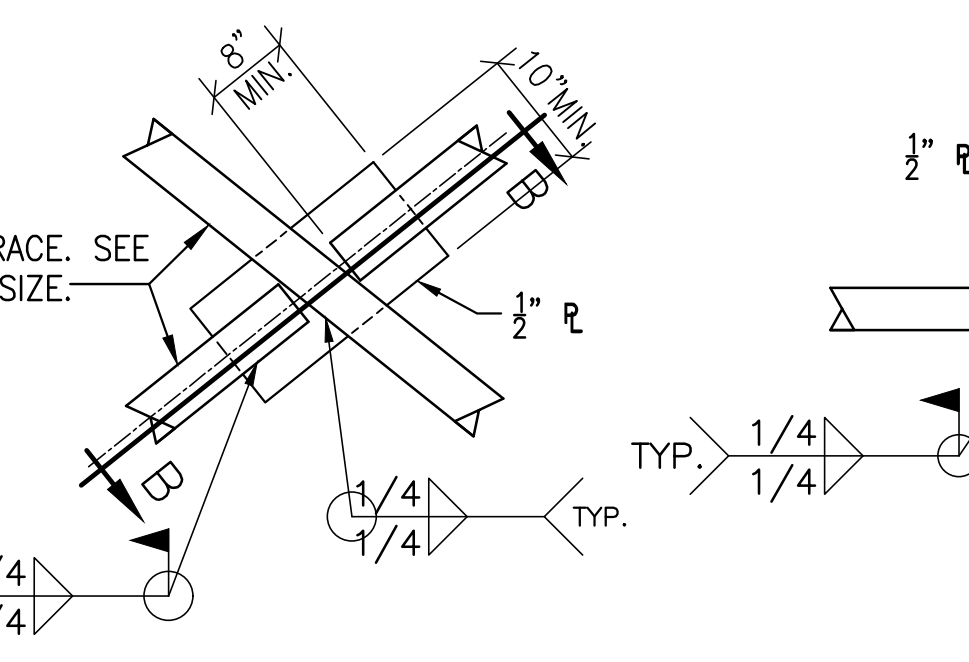
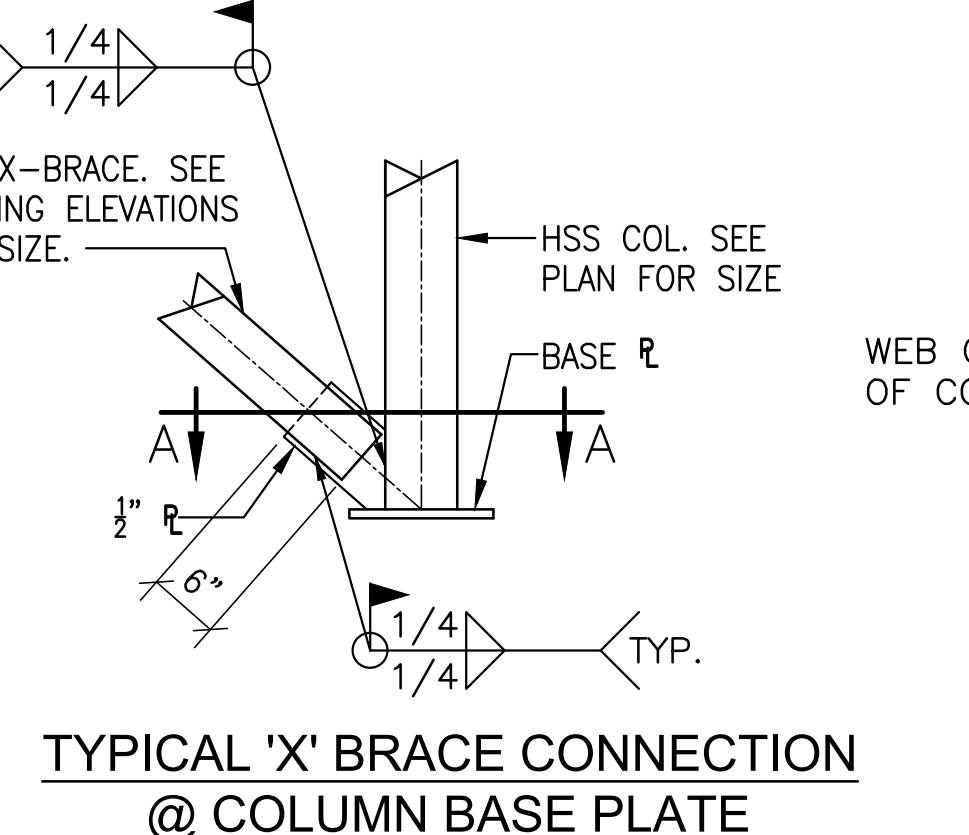
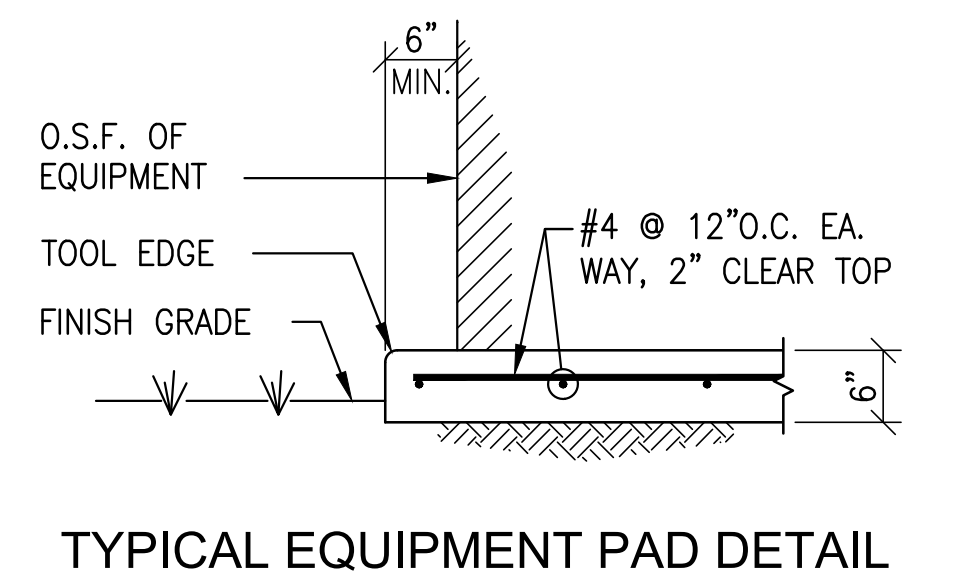
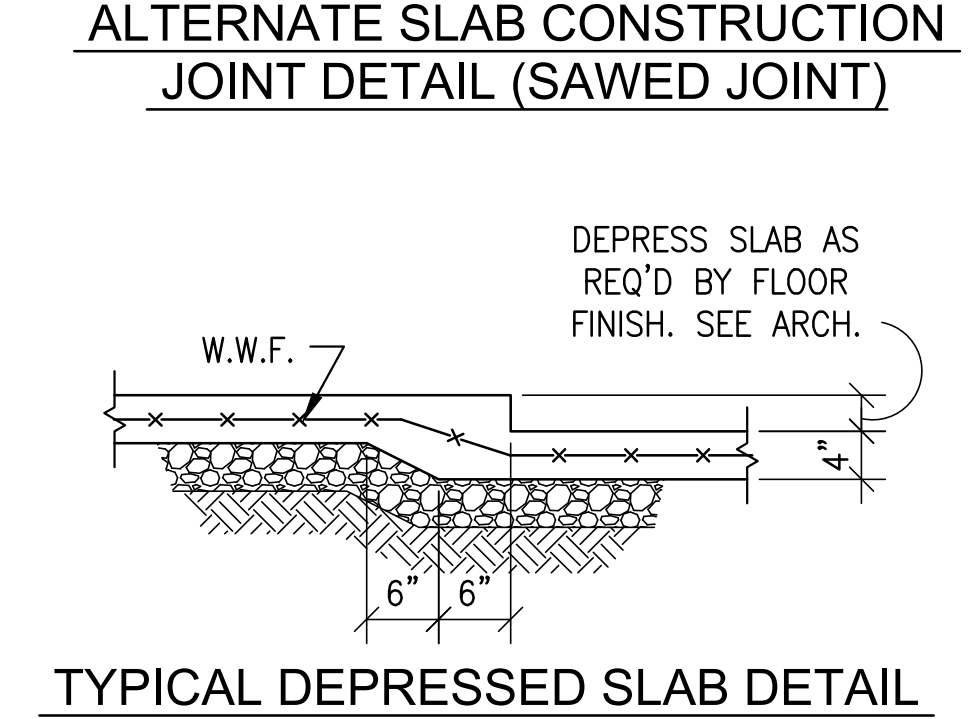
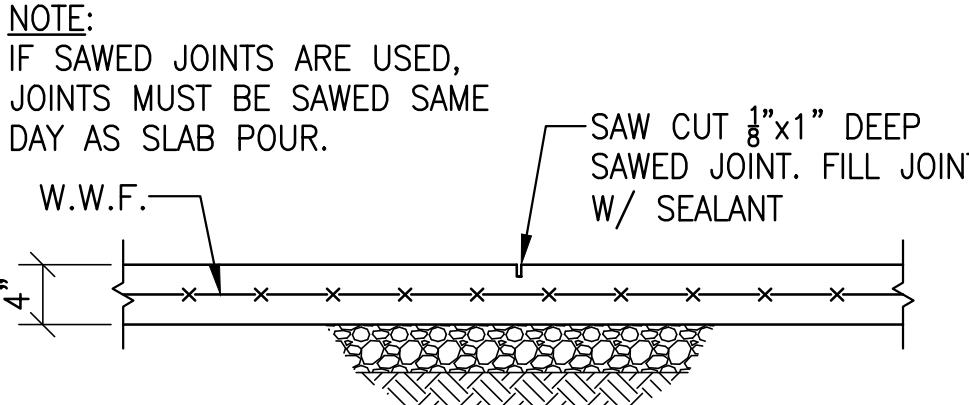
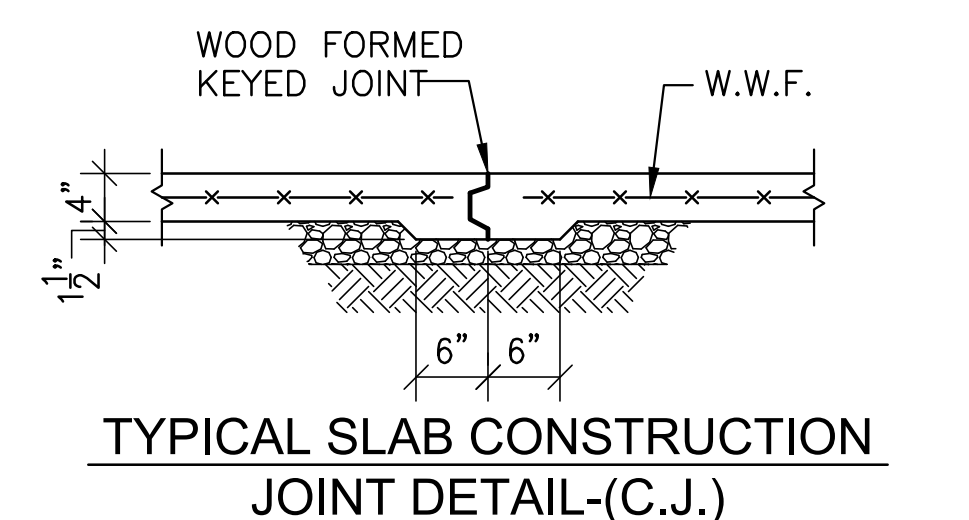
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: BDW
Date:
Scale: AS NOTED

Interior Elevations

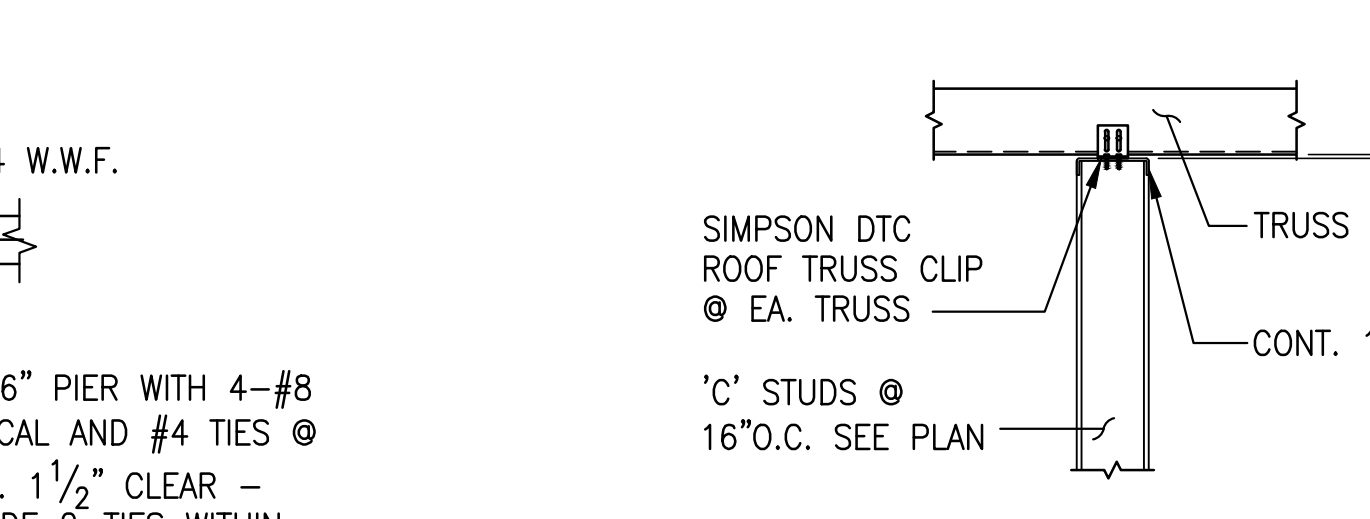
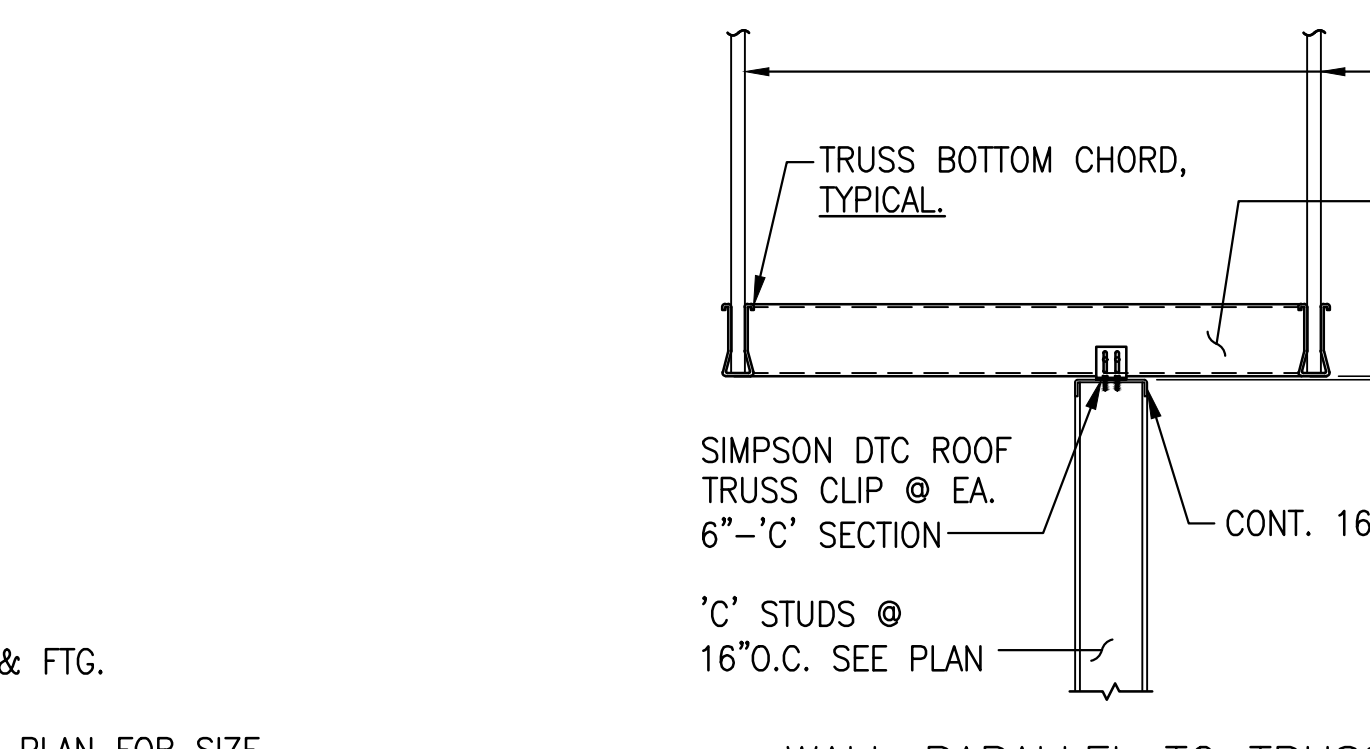
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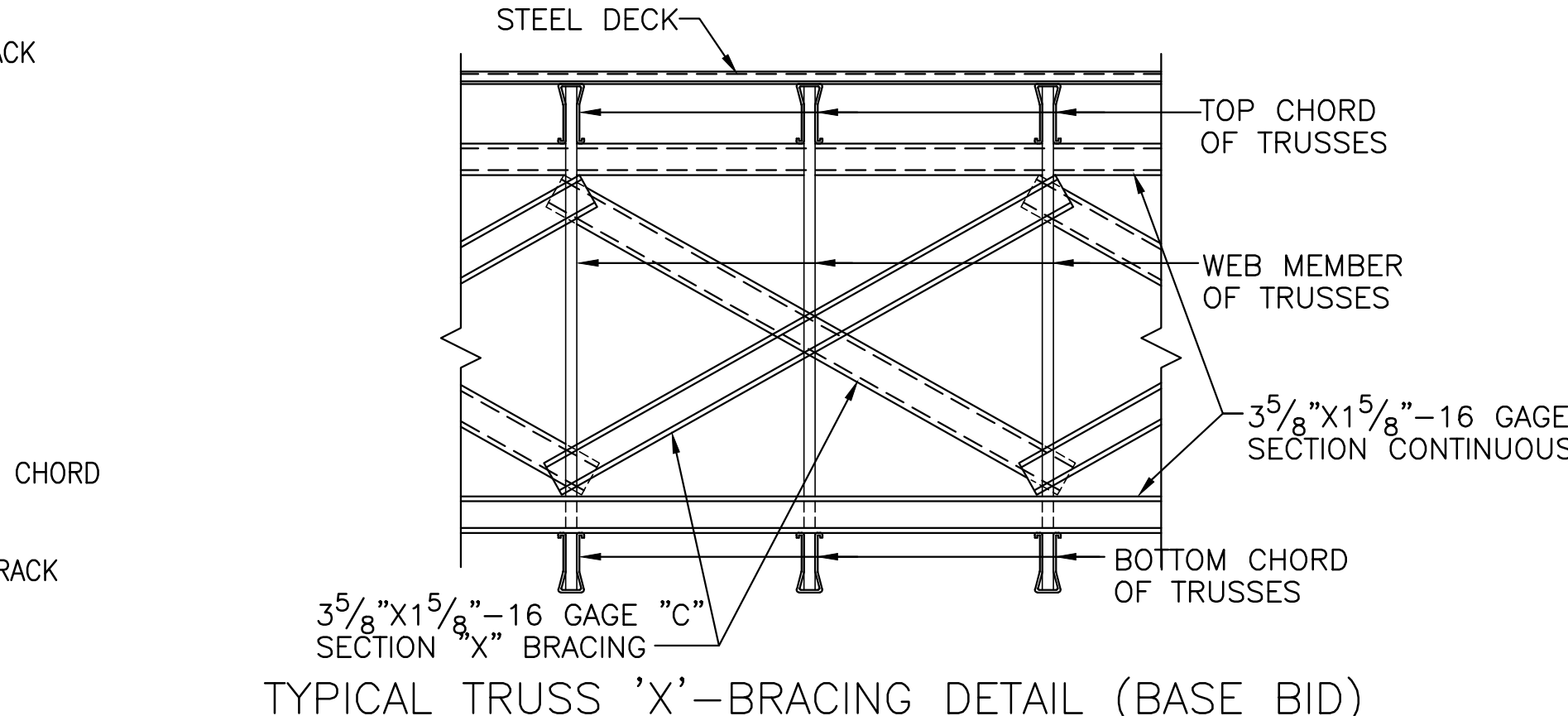
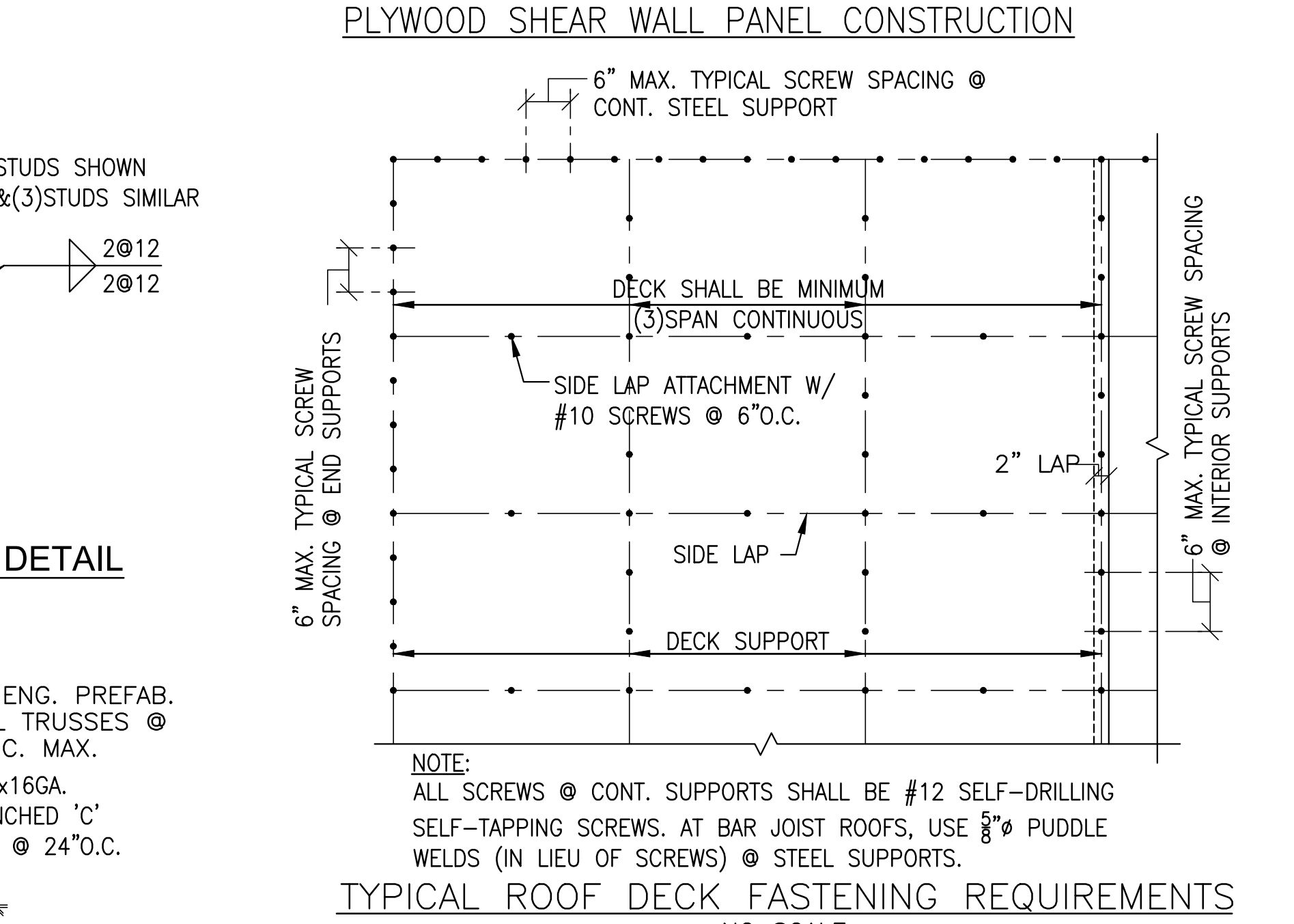
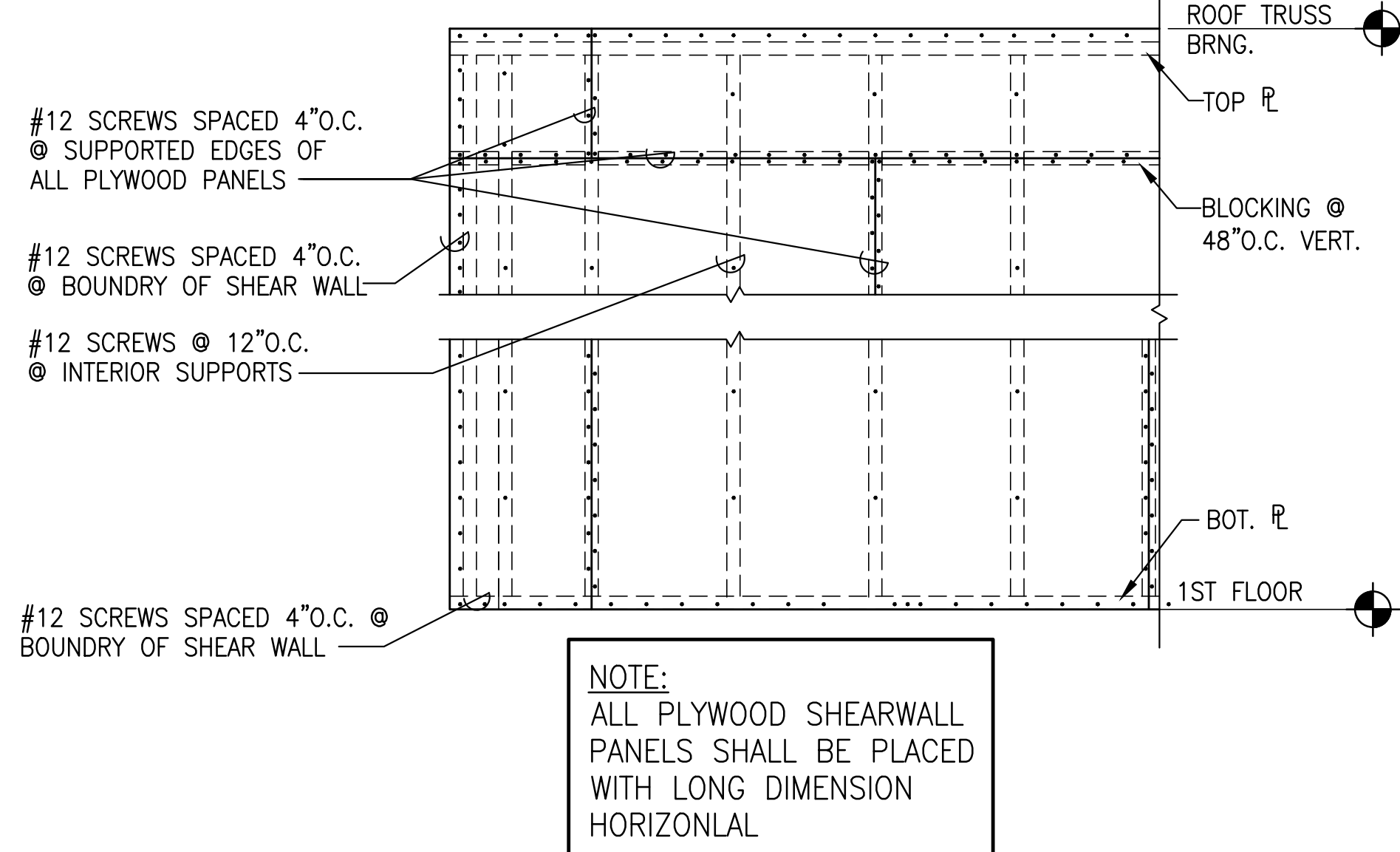
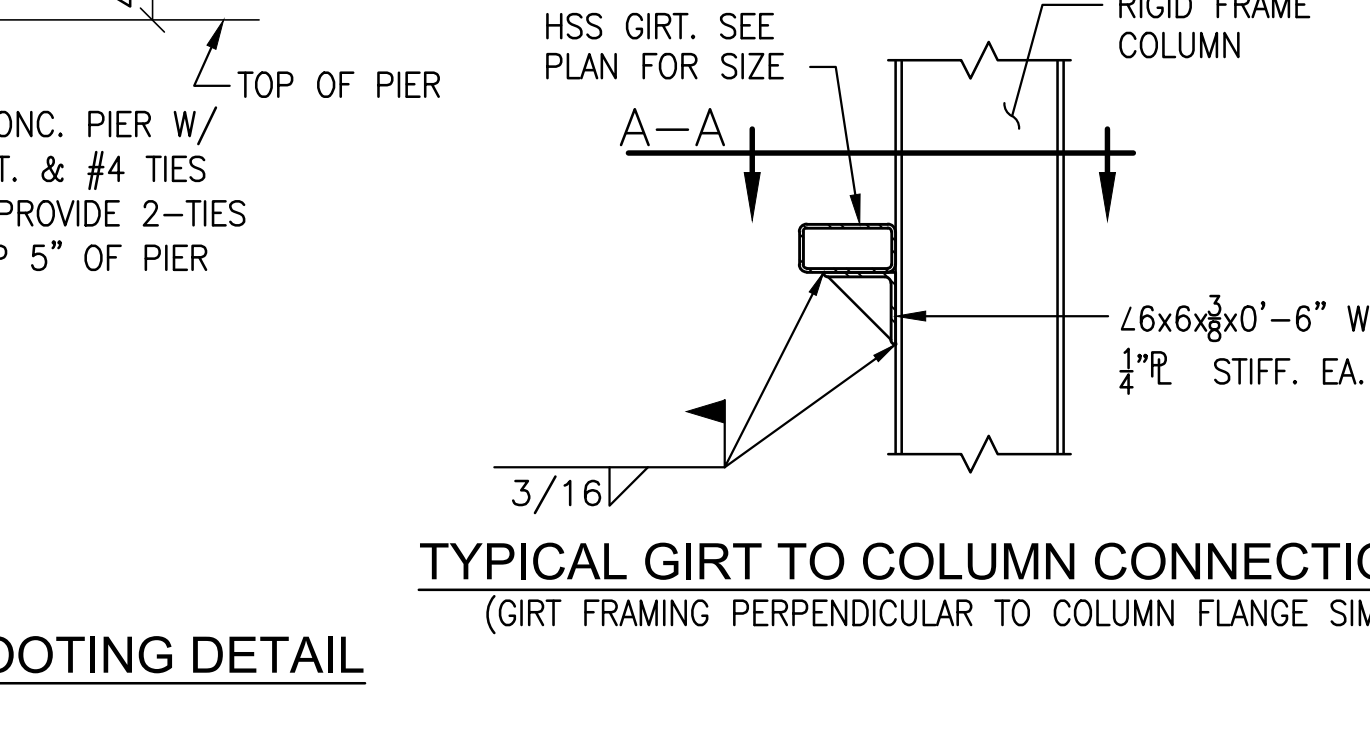
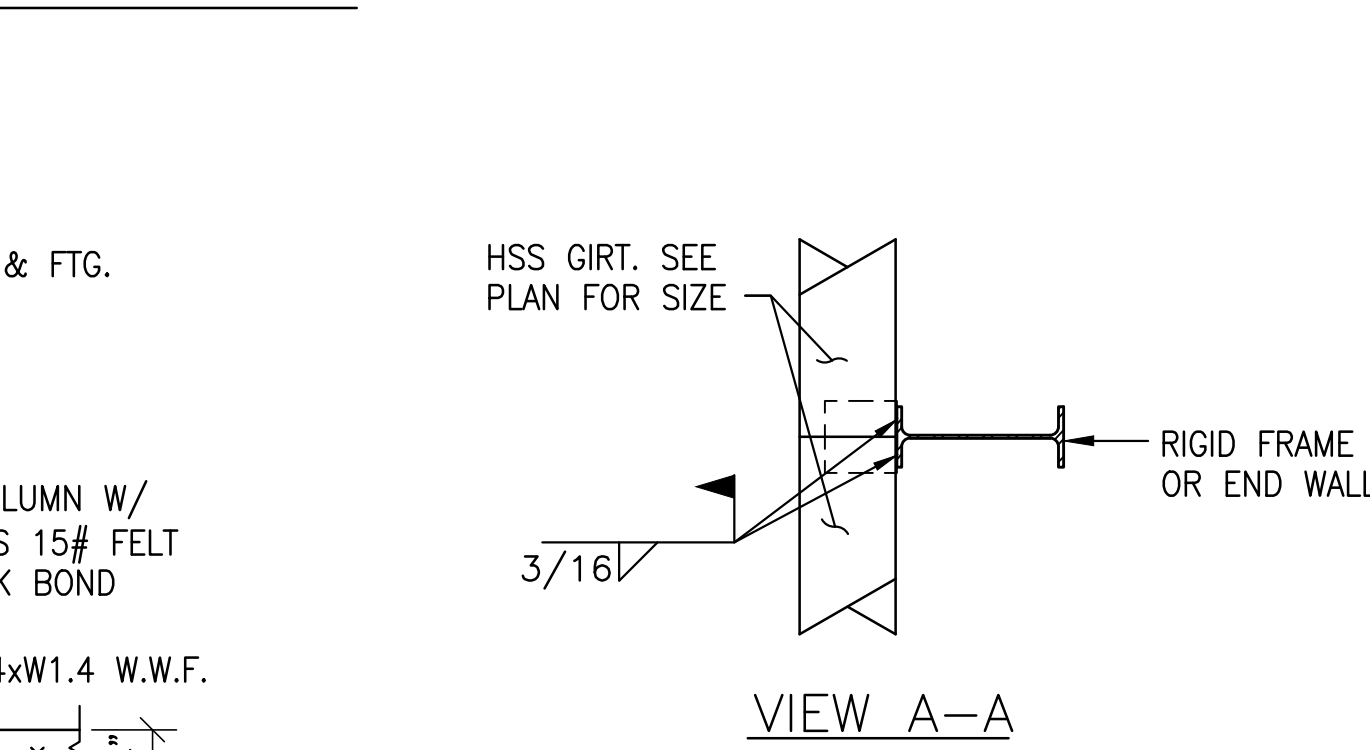
CONFORMANCE DOCUMENTS



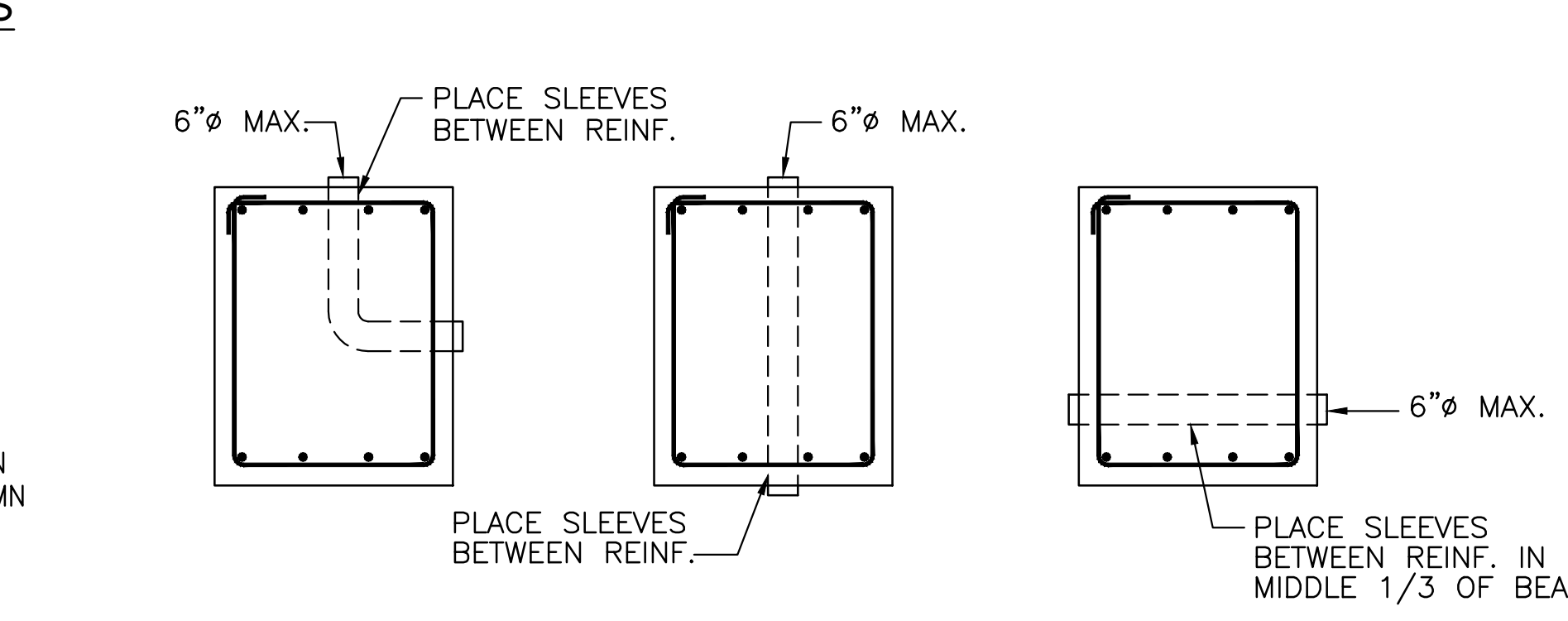
TYPICAL BUILT-UP COLD-FORMED STEEL STUD COLUMN DETAIL



TYPICAL NON-BEARING STEEL STUD WALL ANCHORAGE DETAIL AT COLD-FORMED STEEL TRUSSES



TYPICAL TRUSS 'X'-BRACING DETAIL (BASE BID)



TYPICAL PLUMBING SLEEVE IN GRADE BEAM DETAILS

- NOTES:
- ALL SLEEVES PLACED IN GRADE BEAMS SHALL BE MADE W/ SCHEDULE 40 STEEL PIPE. PROVIDE 3" Ø STEEL PIPE SLEEVES @ 2" Ø PLUMBING PIPES & 6" Ø SLEEVES @ 4" Ø PLUMBING PIPES.
 - PLACE PLUMBING PIPE OUTSIDE OF GRADE BEAMS & BELOW GRADE BEAMS WHERE POSSIBLE. ONLY SLEEVE GRADE BEAM WHEN THIS IS NOT POSSIBLE.
 - ALL SLEEVES PENETRATING VERTICALLY THRU TOP OR BOTTOM OF BEAM SHALL REQUIRE APPROVAL FROM BLACKBURN DANIELS O'BARR INC. ALL OTHER PENETRATIONS SHALL BE SUBJECT TO APPROVAL AS DEEMED NECESSARY BY BLACKBURN DANIELS O'BARR.



REVISIONS	No.	Description	Date
1.	Construction Documents		02-09-2023
2.	Conformance Documents		05-17-2023



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS

No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: RAS
Date: 05-17-2023
Scale: AS NOTED
Drawing Title:

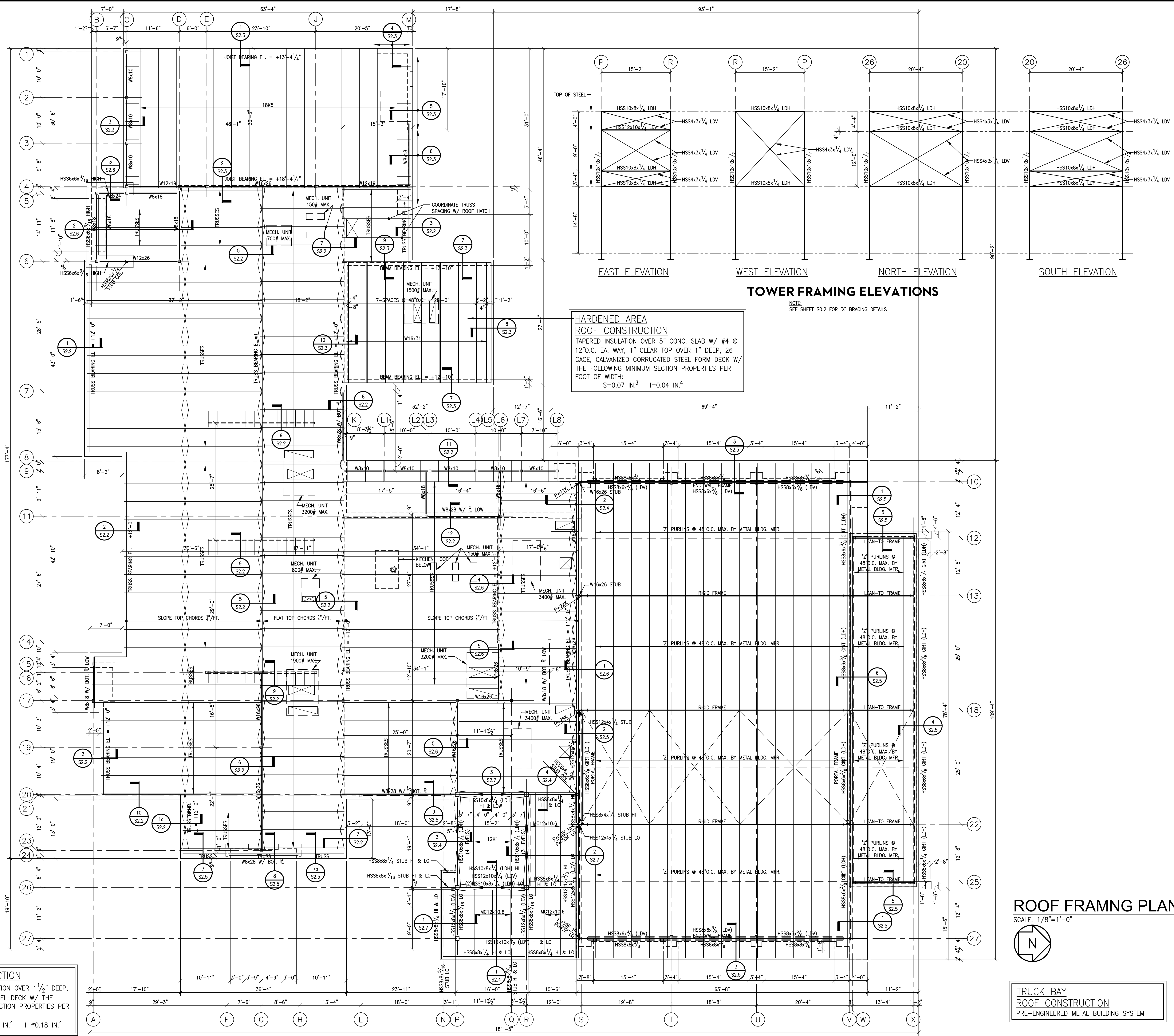
ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"

TRUCK BAY
ROOF CONSTRUCTION
PRE-ENGINEERED METAL BUILDING SYSTEM

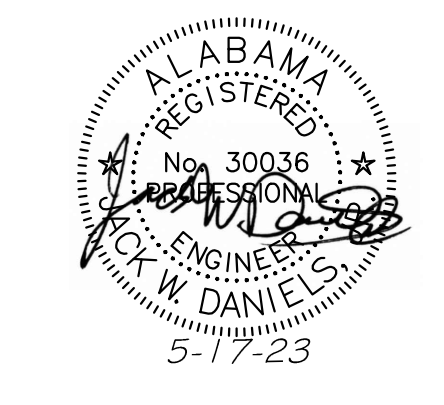
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CONFORMANCE DOCUMENTS

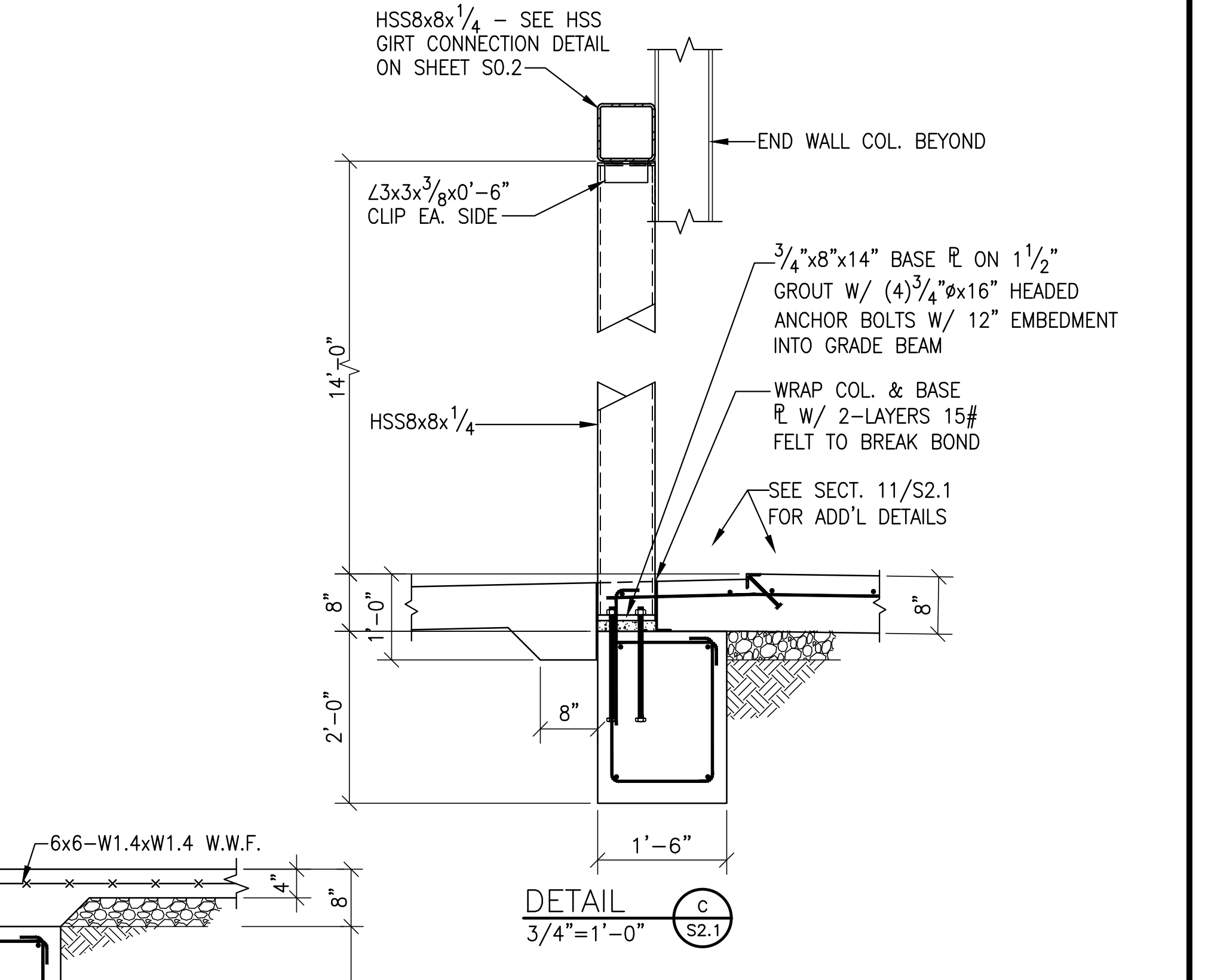
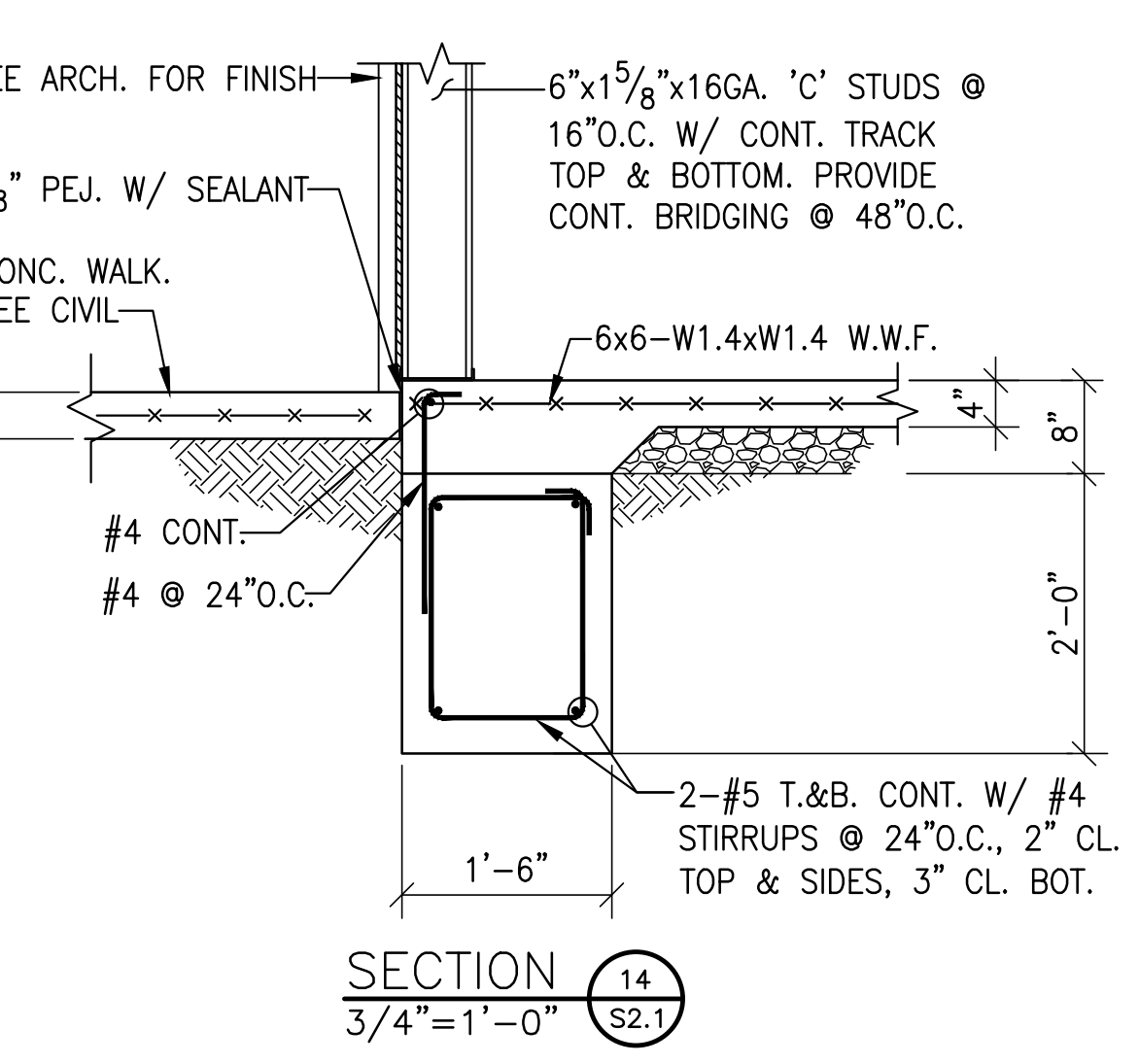
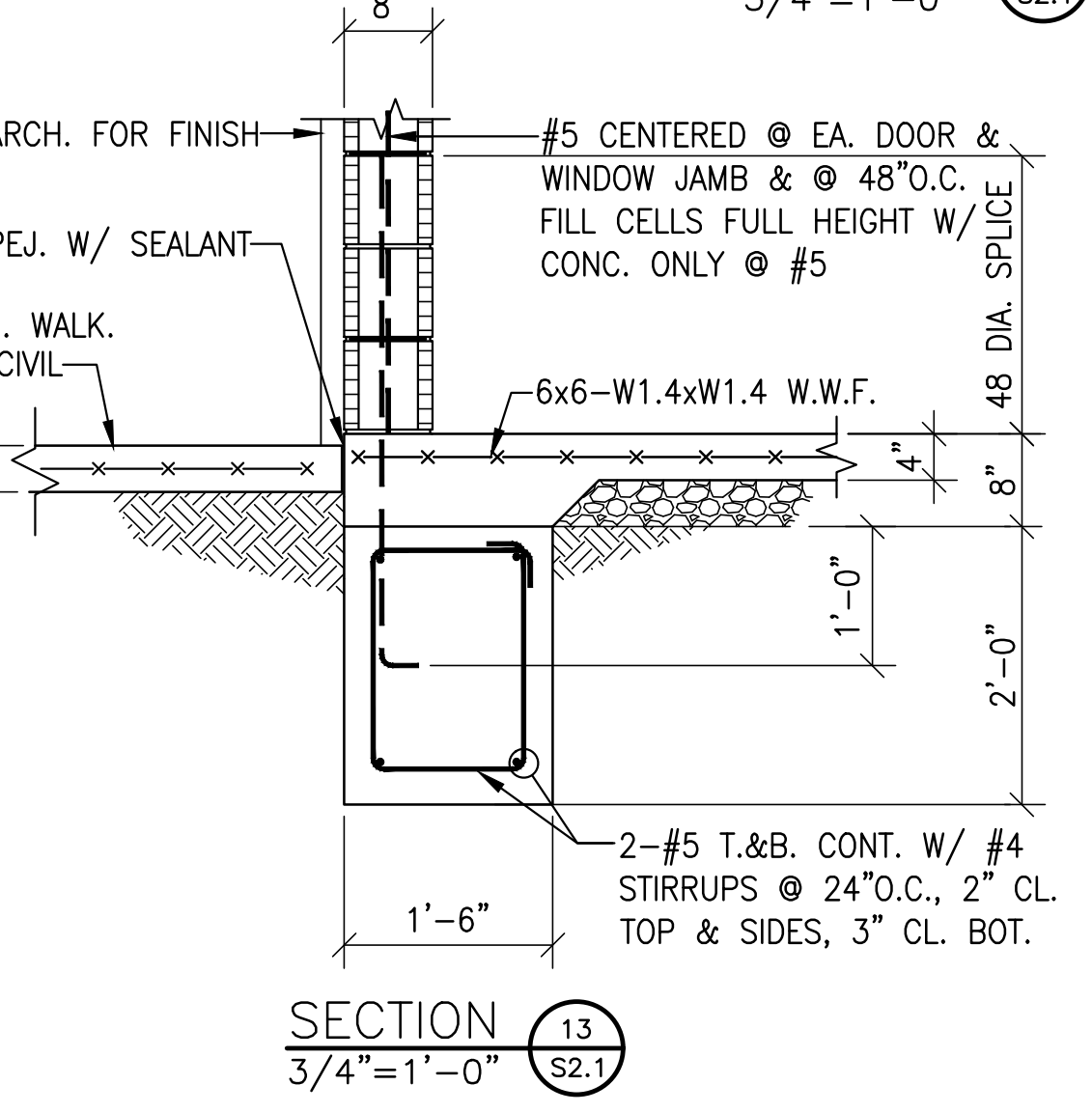
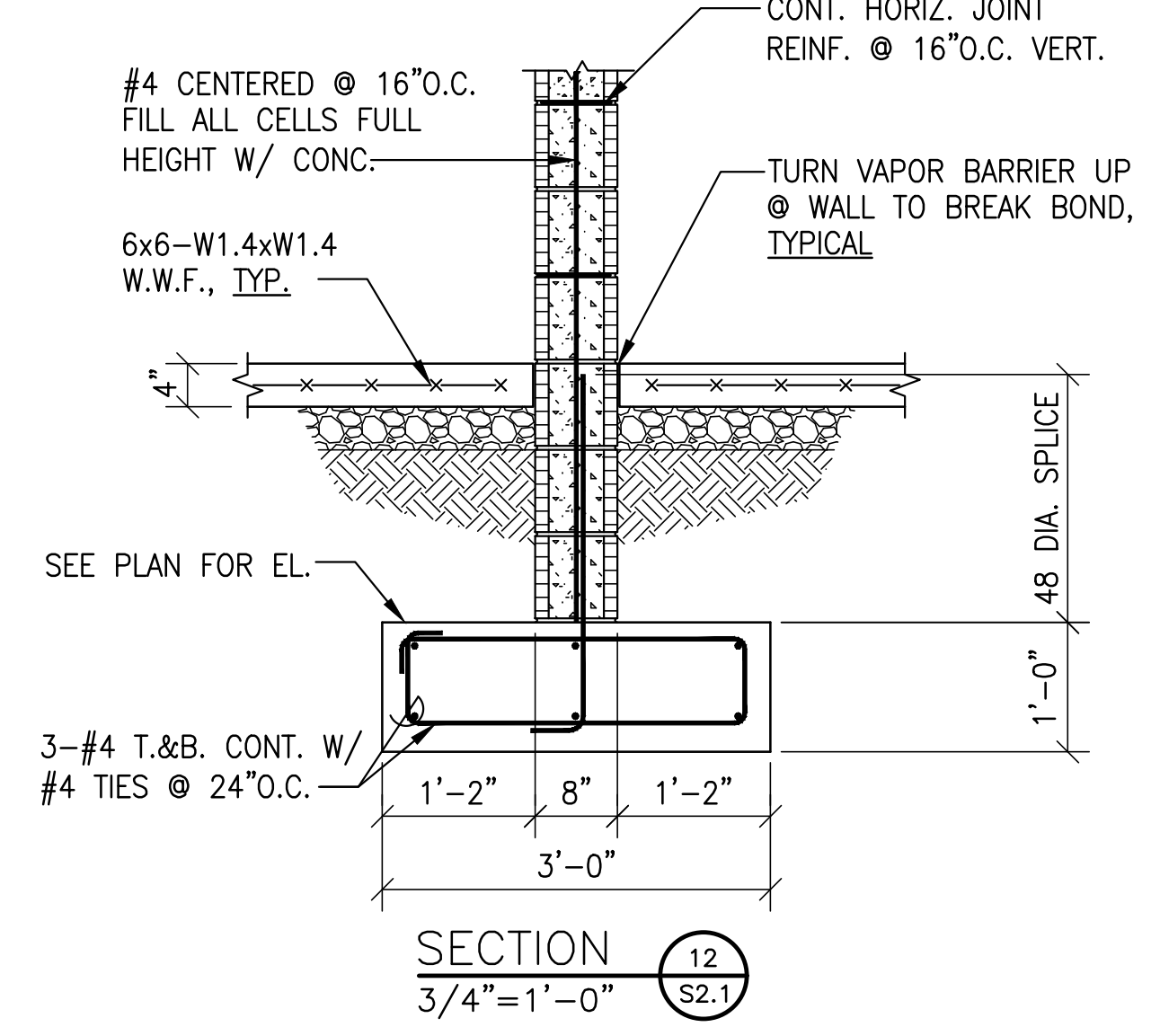
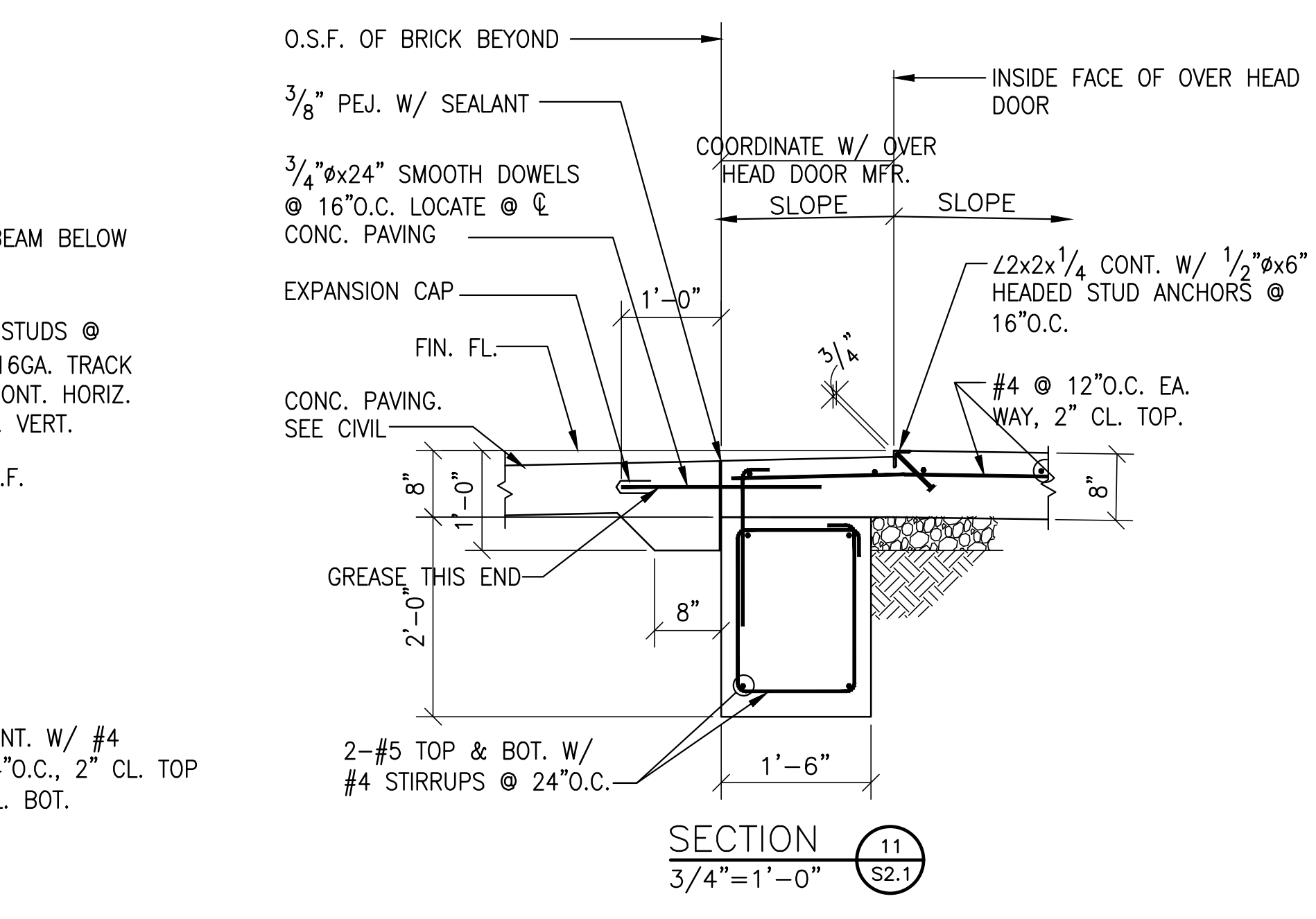
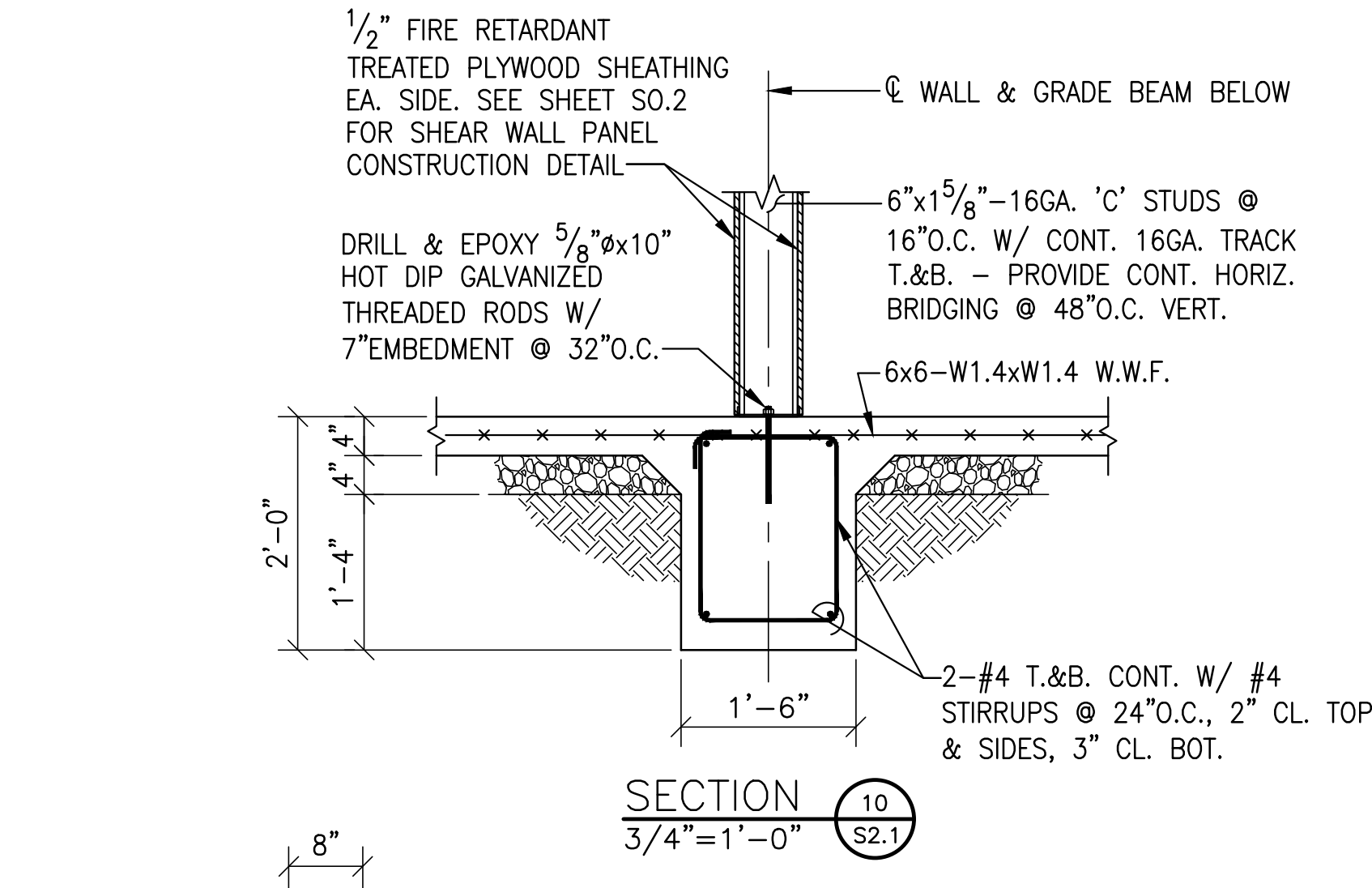
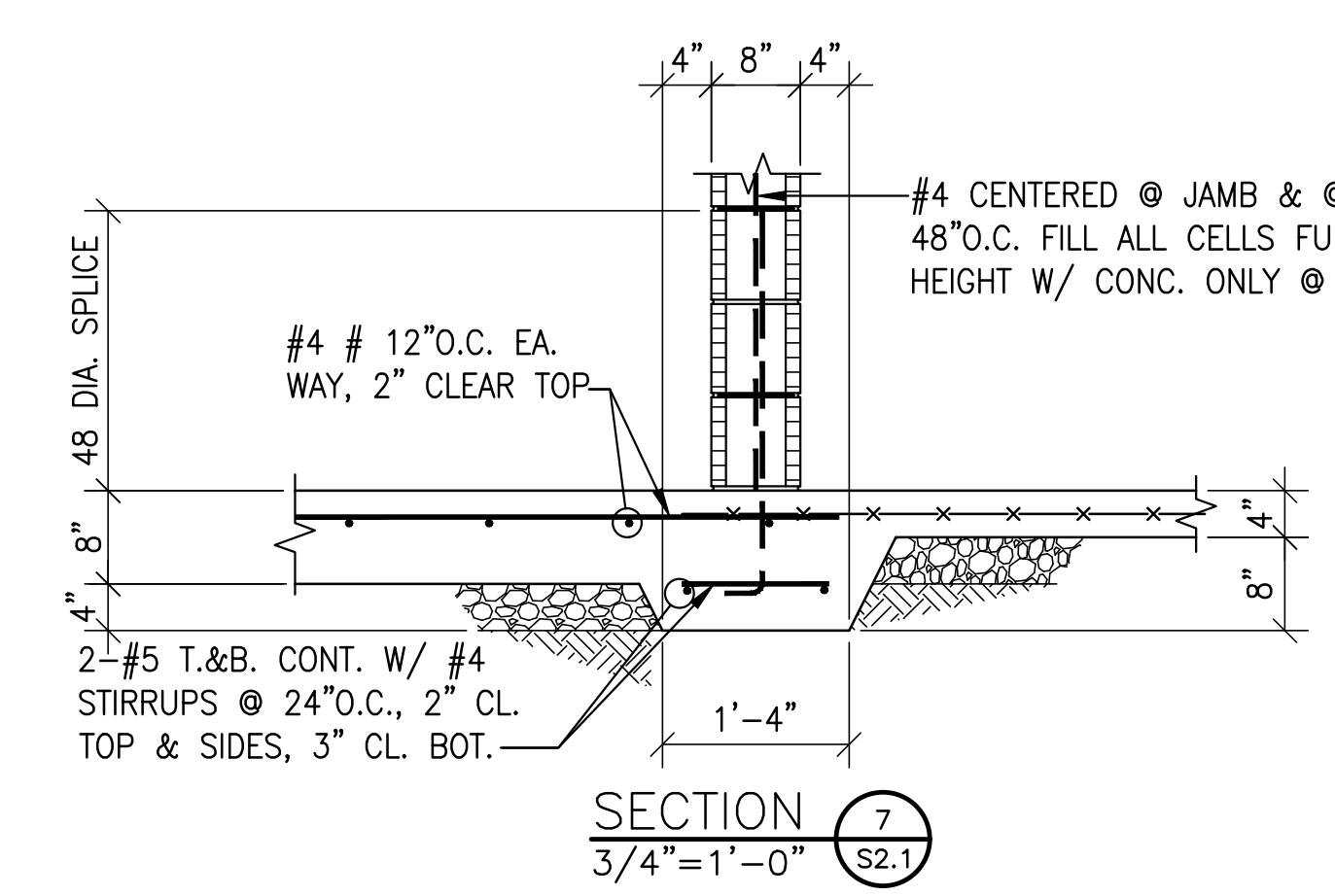
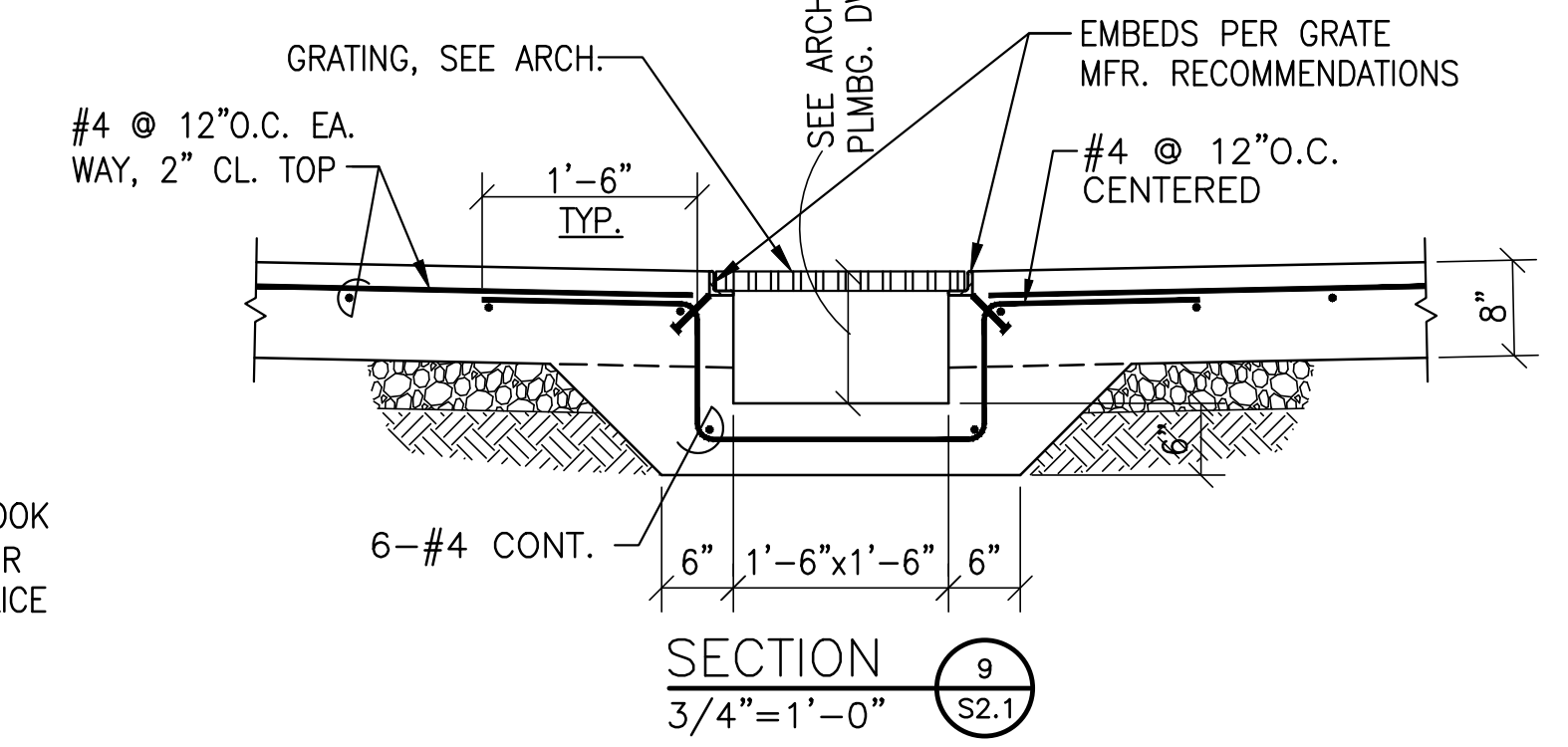
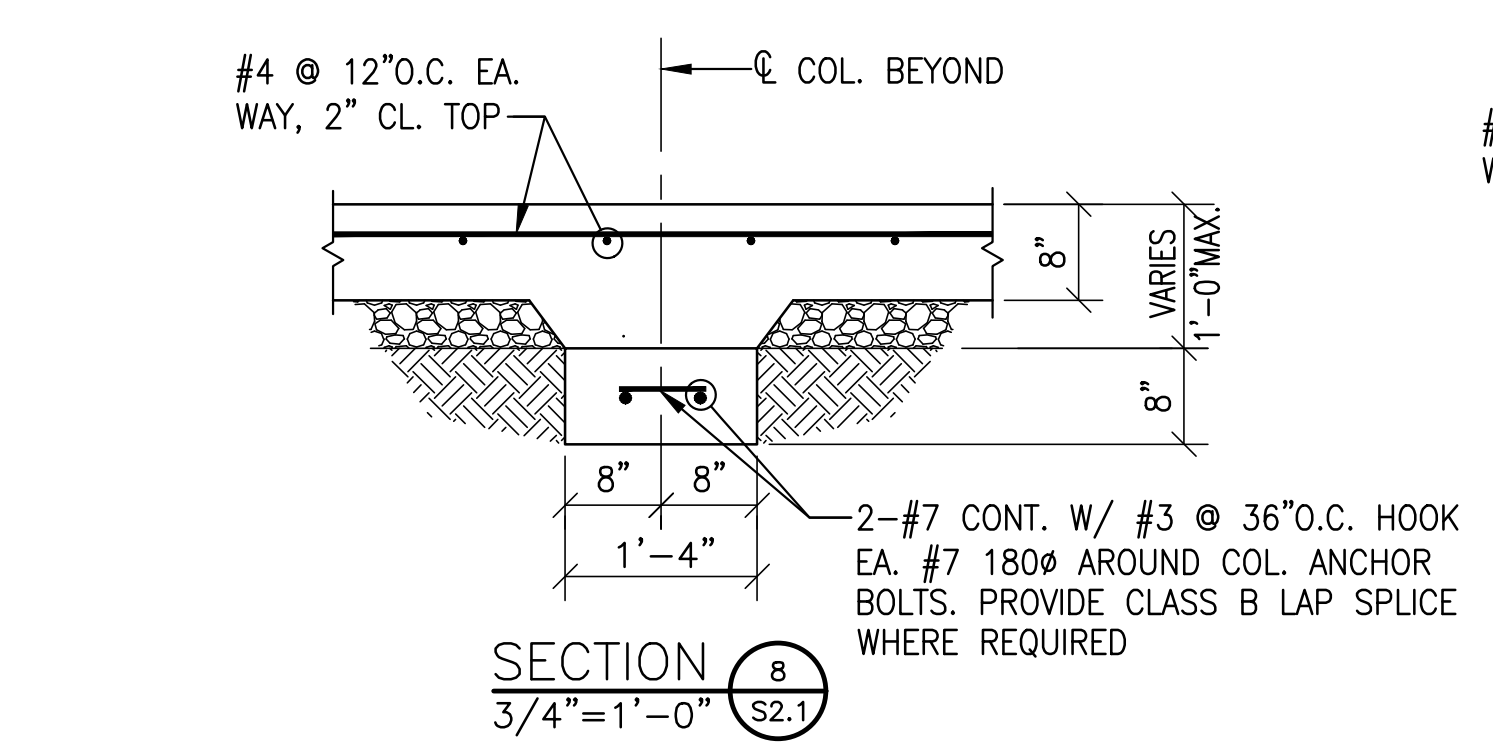
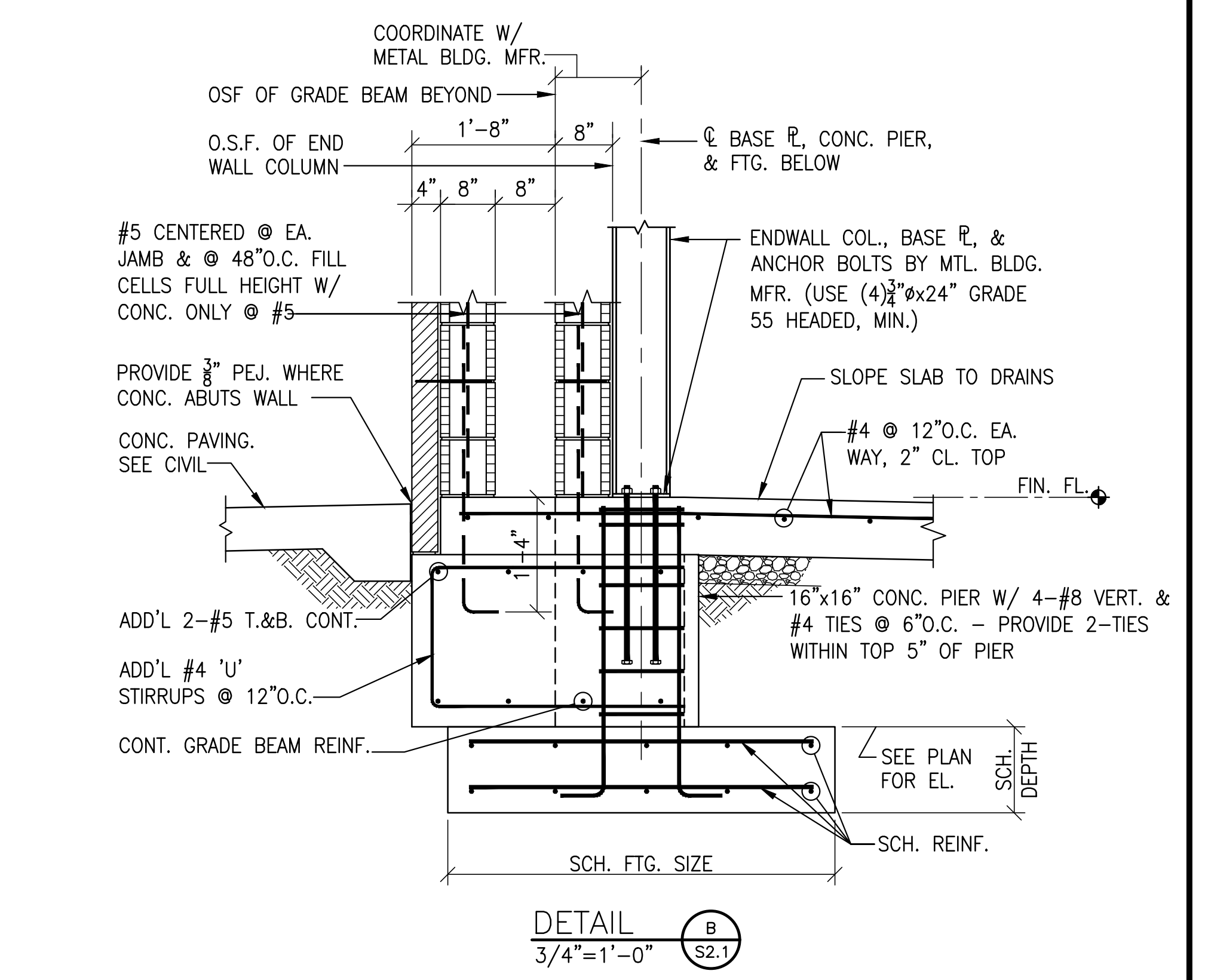
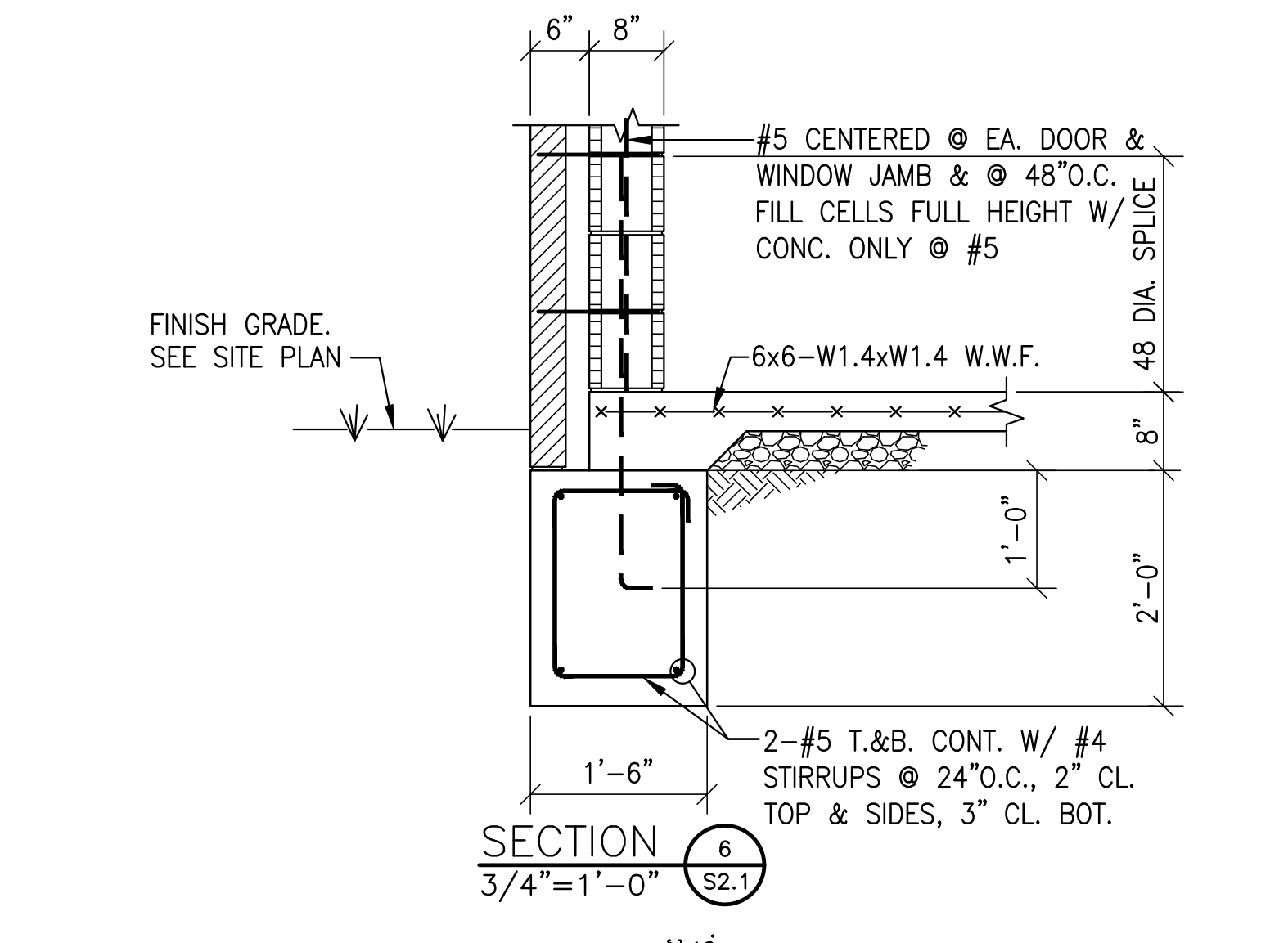
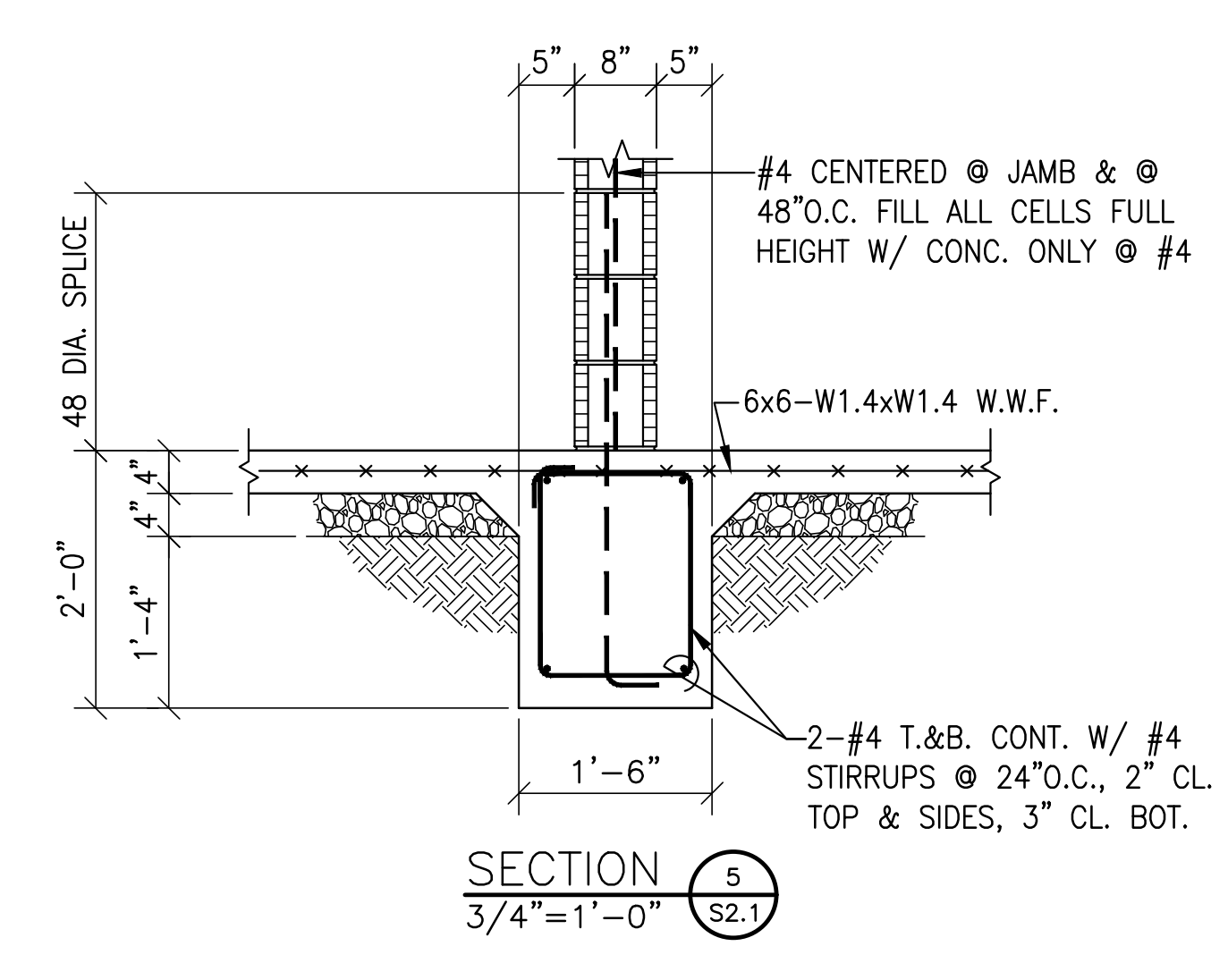
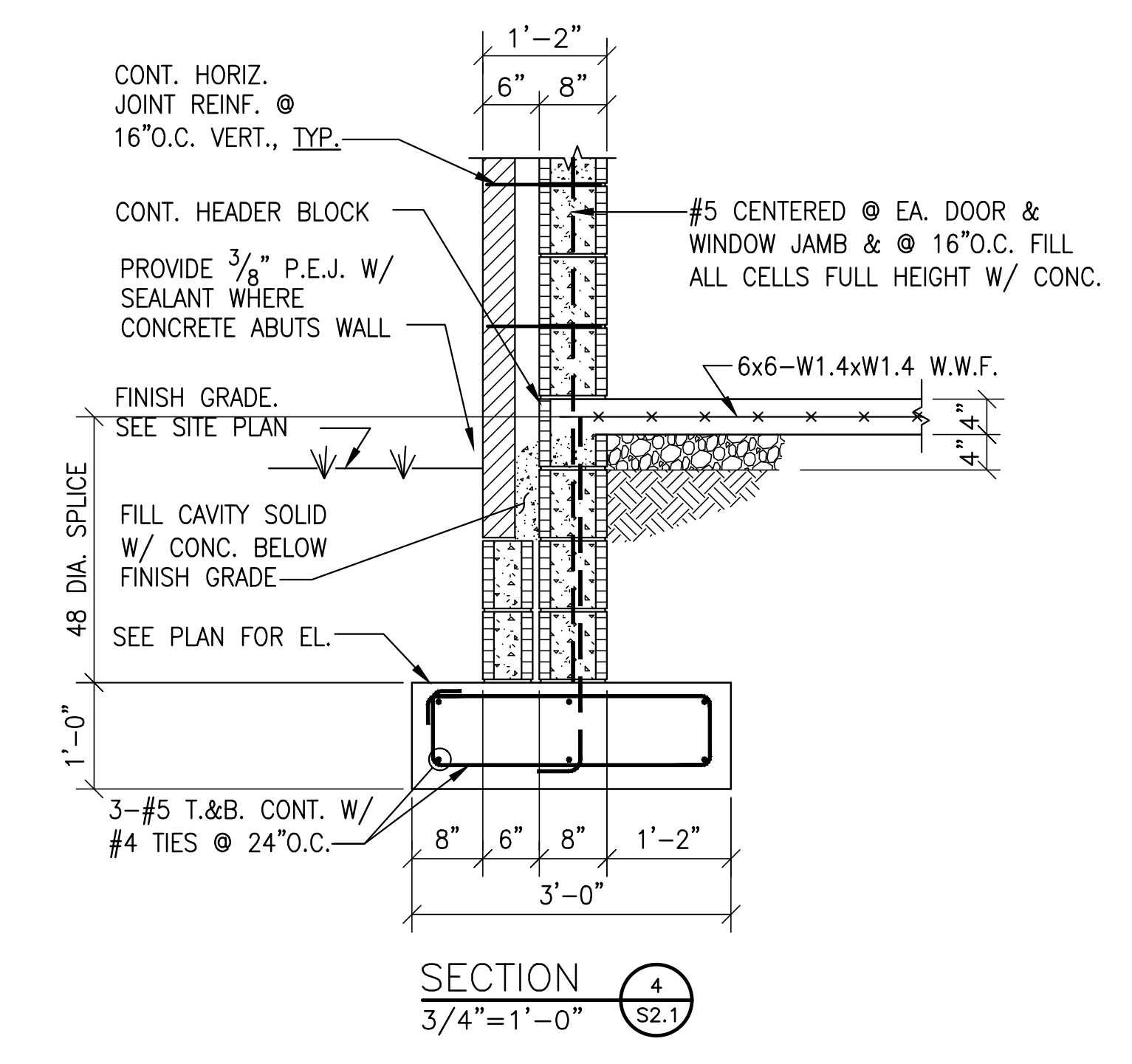
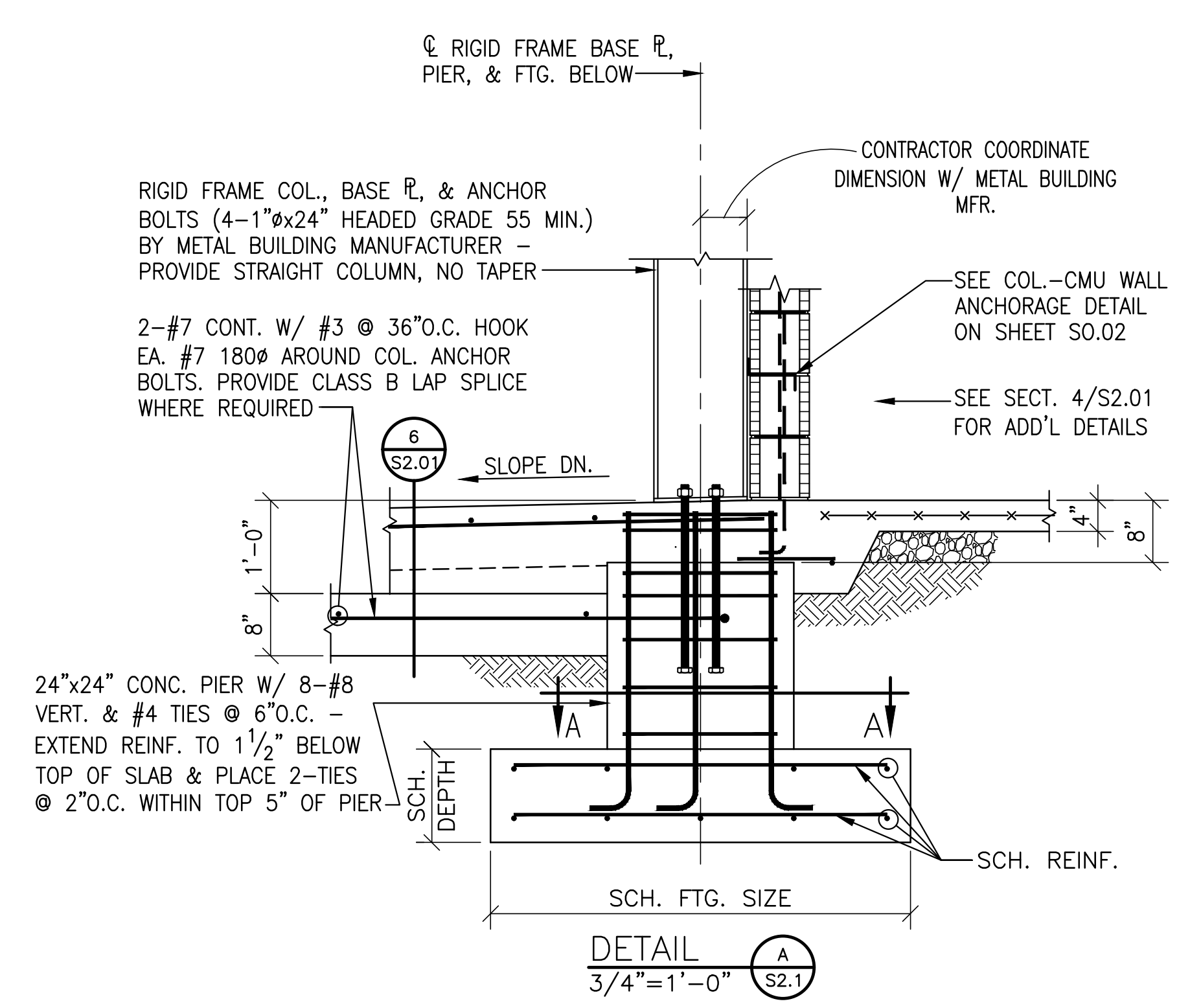
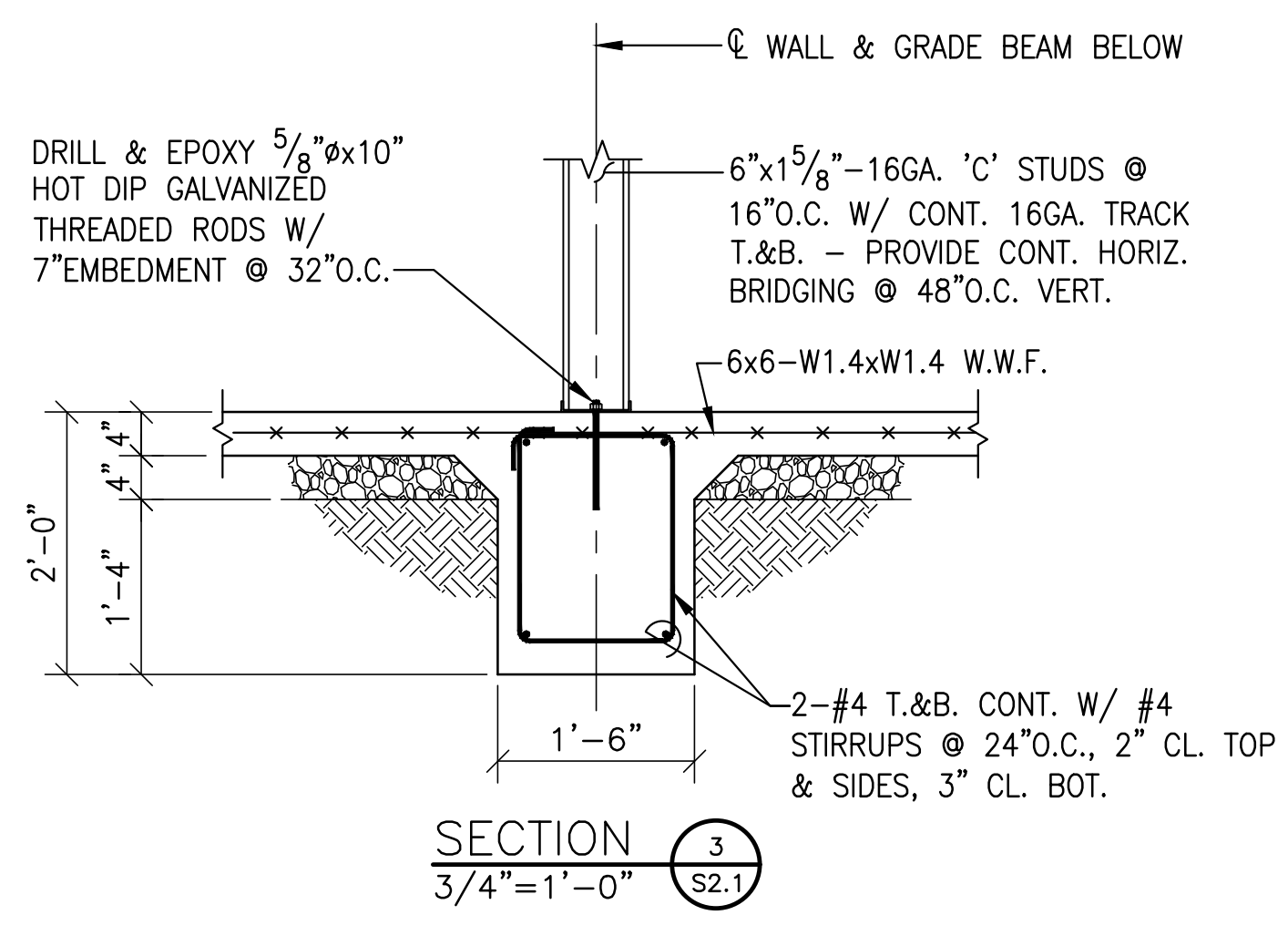
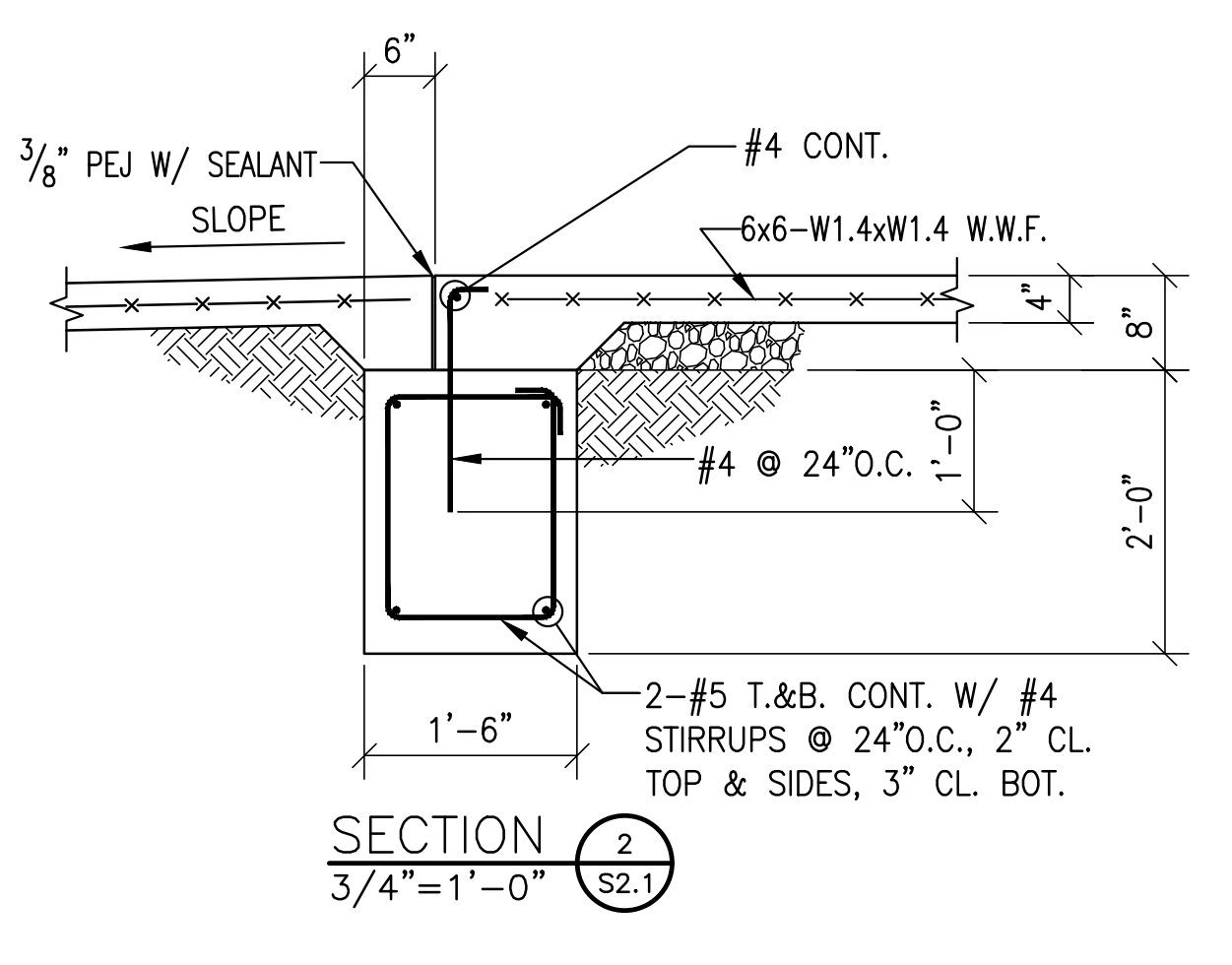
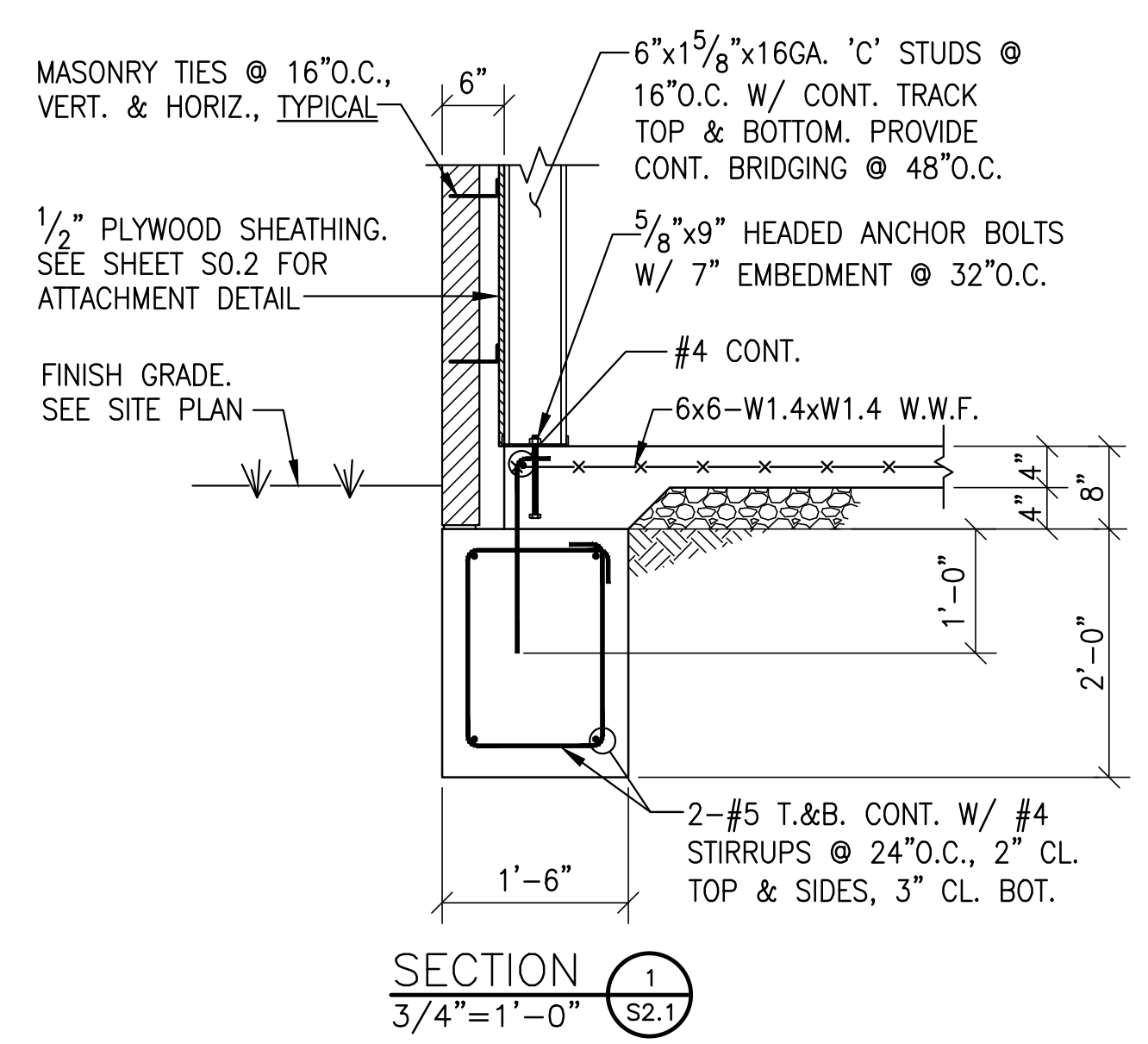


**HARDENED AREA
ROOF CONSTRUCTION**
TAPERED INSULATION OVER 5" CONC. SLAB W/ #4 @
12" O.C. EA. WAY, 1" CLEAR TOP OVER 1" DEEP, 26
GAGE, GALVANIZED CORRUGATED STEEL FORM DECK W/
THE FOLLOWING MINIMUM SECTION PROPERTIES PER
FOOT OF WIDTH:
S=0.07 IN.³ I=0.04 IN.⁴

ROOF CONSTRUCTION
RIGID/TAPERED INSULATION OVER 1 1/2" DEEP,
22 GAGE, WIDE RIB STEEL DECK W/ THE
FOLLOWING MINIMUM SECTION PROPERTIES PER
FOOT OF WIDTH:
S=0.19 IN.³ I=0.16 IN.⁴



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104



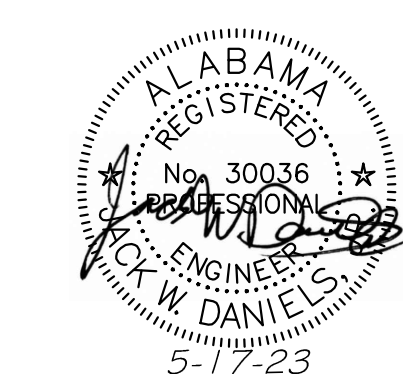
REVISIONS	No.	Description	Date
1	Construction Documents	02-09-2023	
2	Conformance Documents	05-17-2023	
4	ADDENDUM NO.4	03/09/23	

SECTIONS AND DETAILS

Sheet No:

S2.1

CONFORMANCE DOCUMENTS



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
1	Construction Documents	02-03-2023	
2	Performance Documents	05-17-2023	

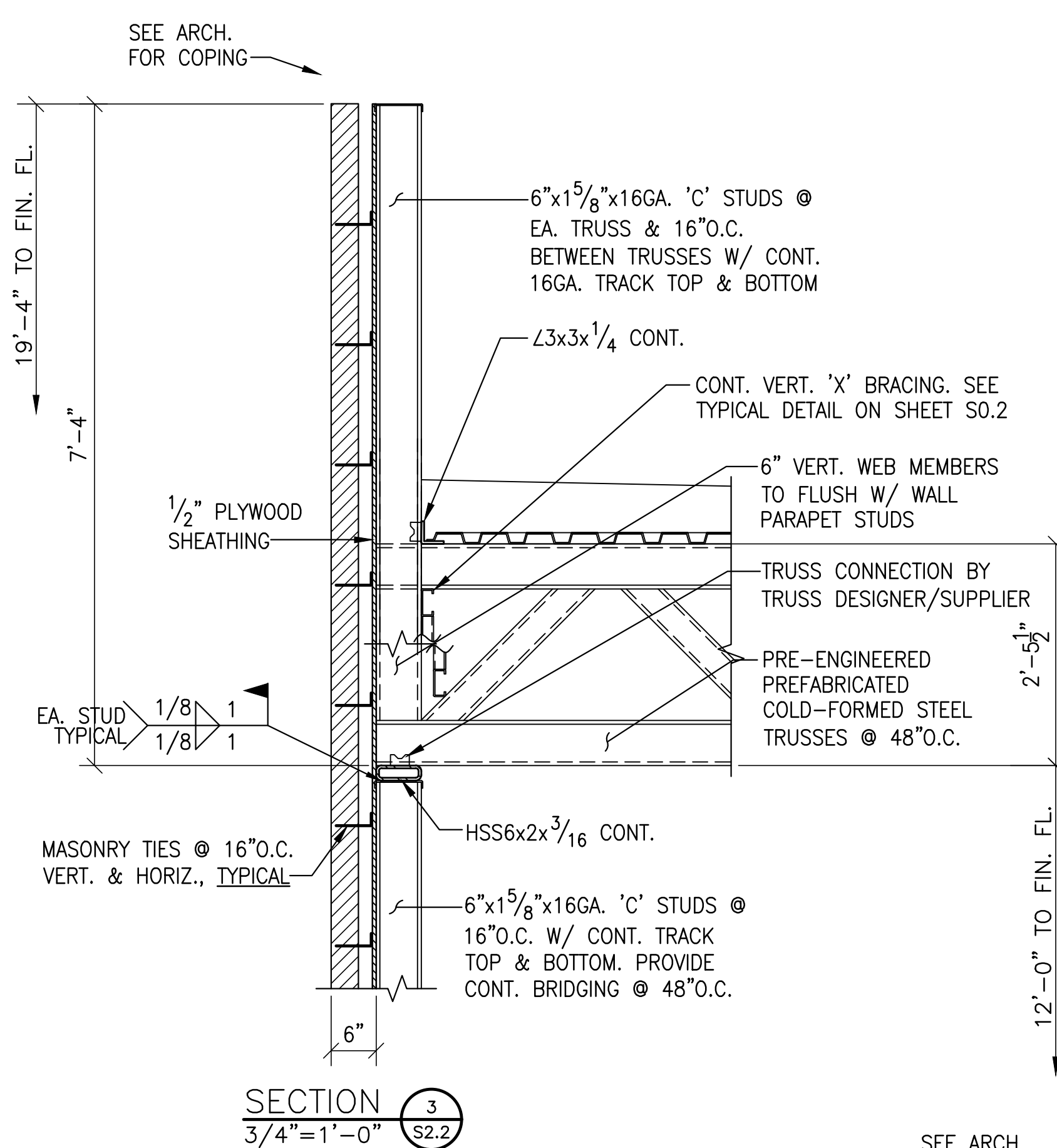
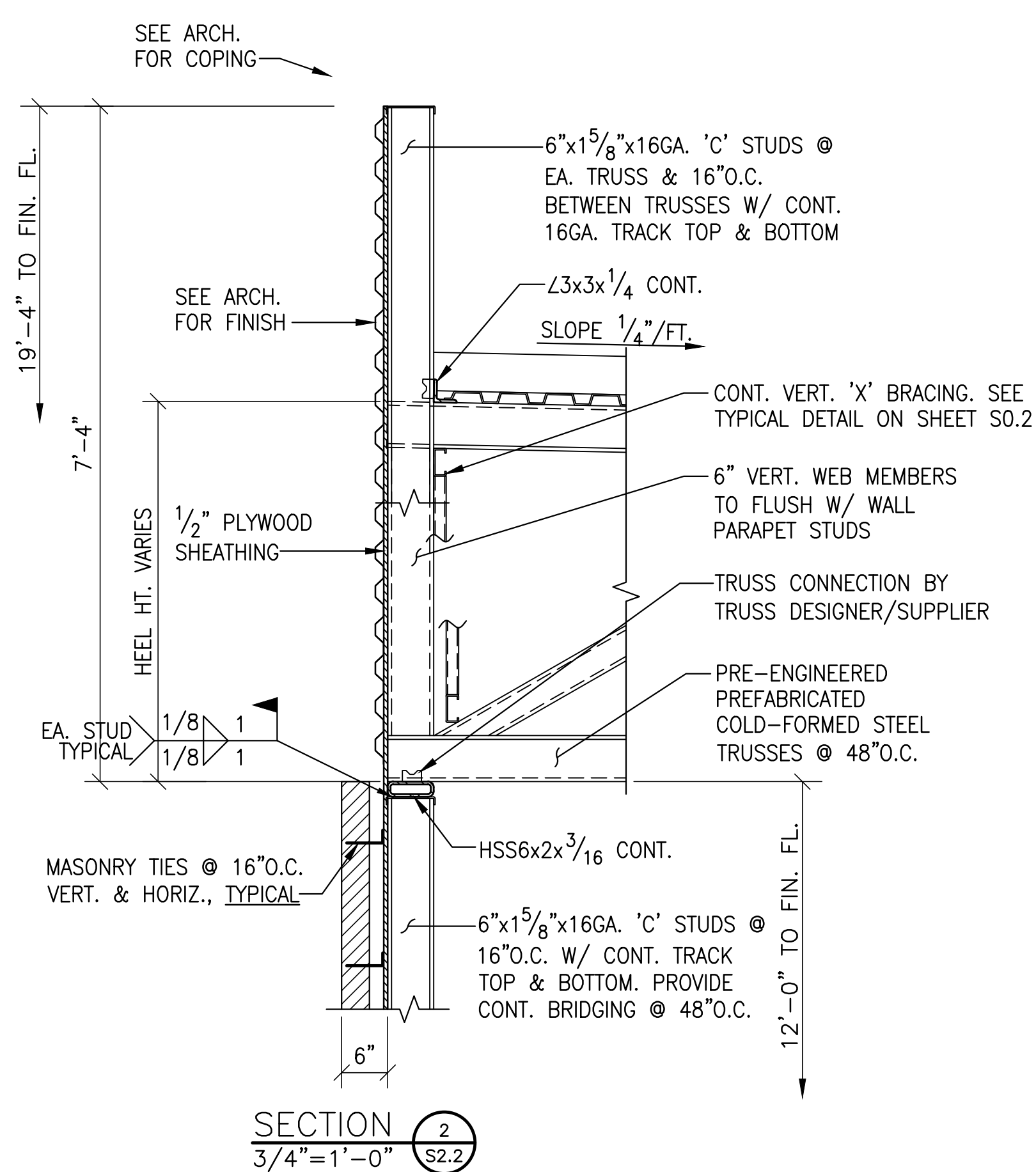
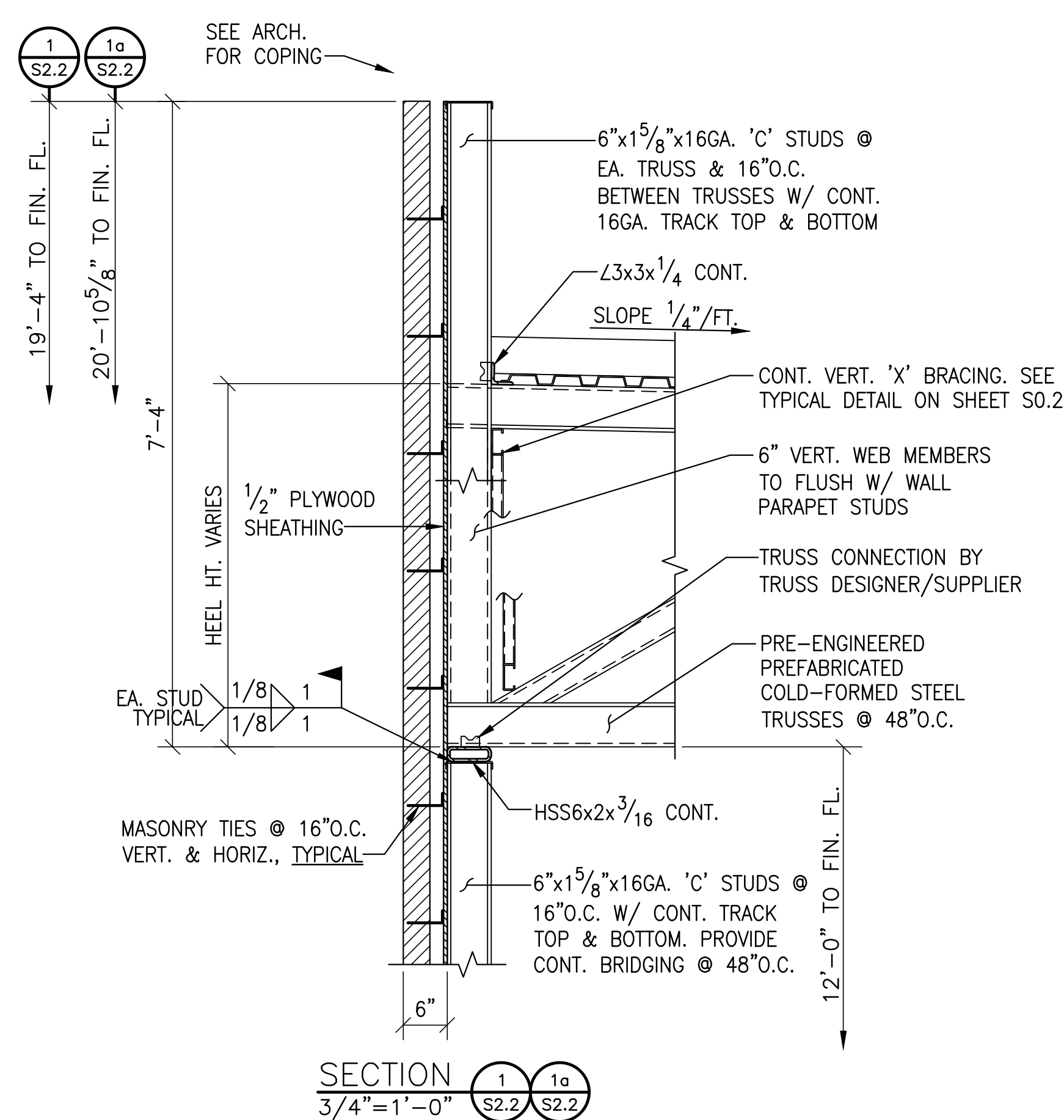
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: RAS
Date: 05-17-2023
Scale: AS NOTED
Drawing Title:

SECTIONS
AND
DETAILS

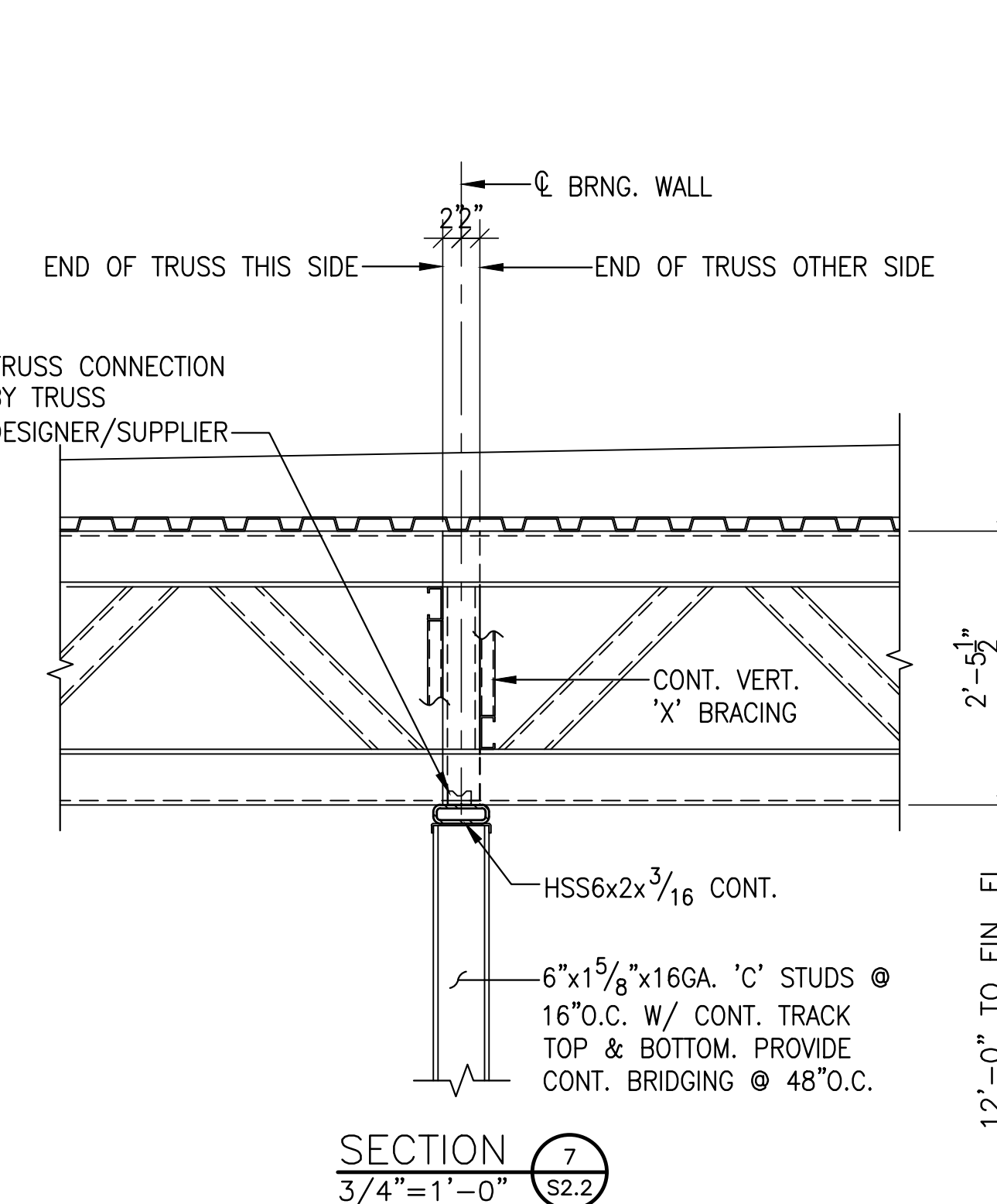
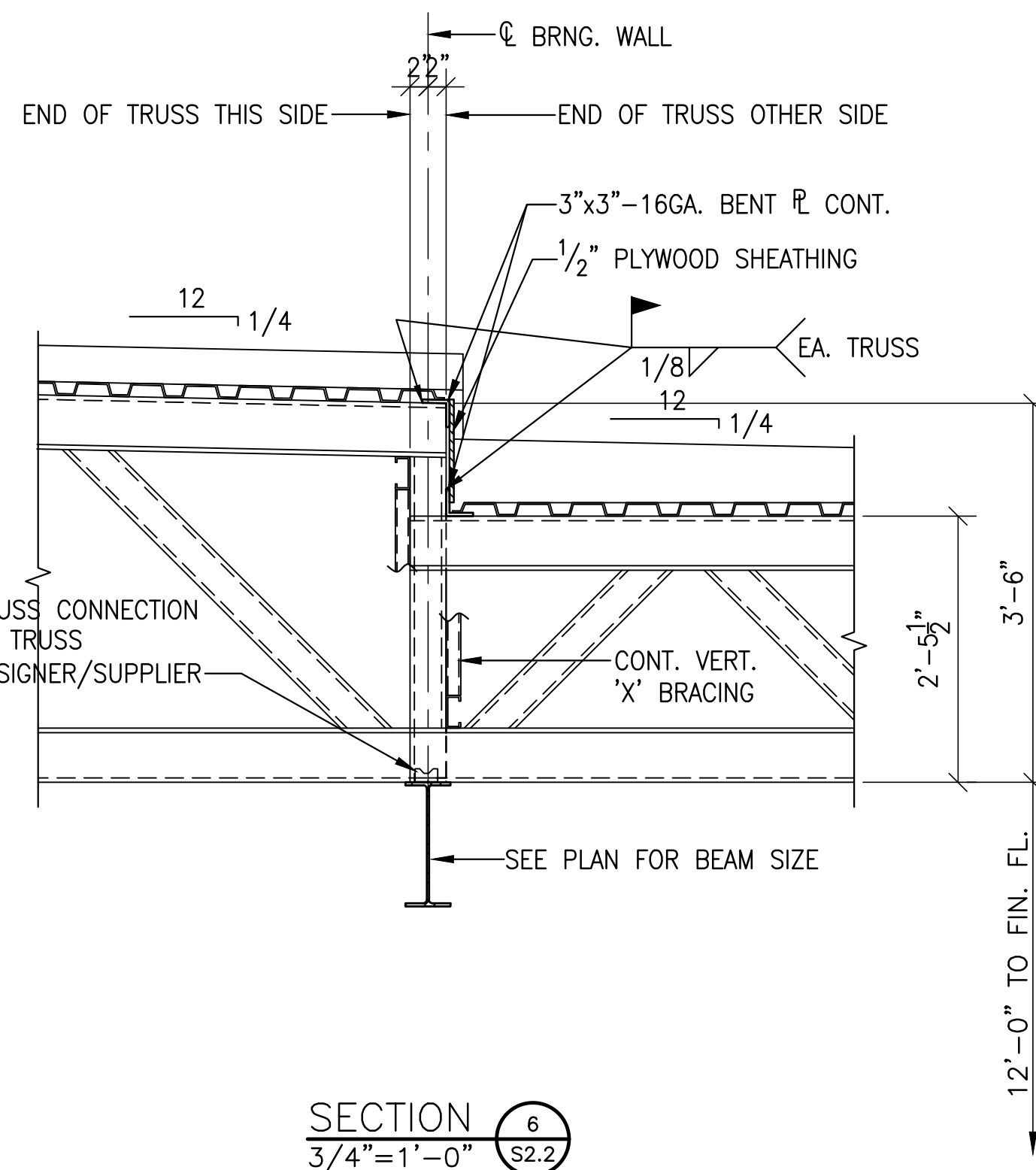
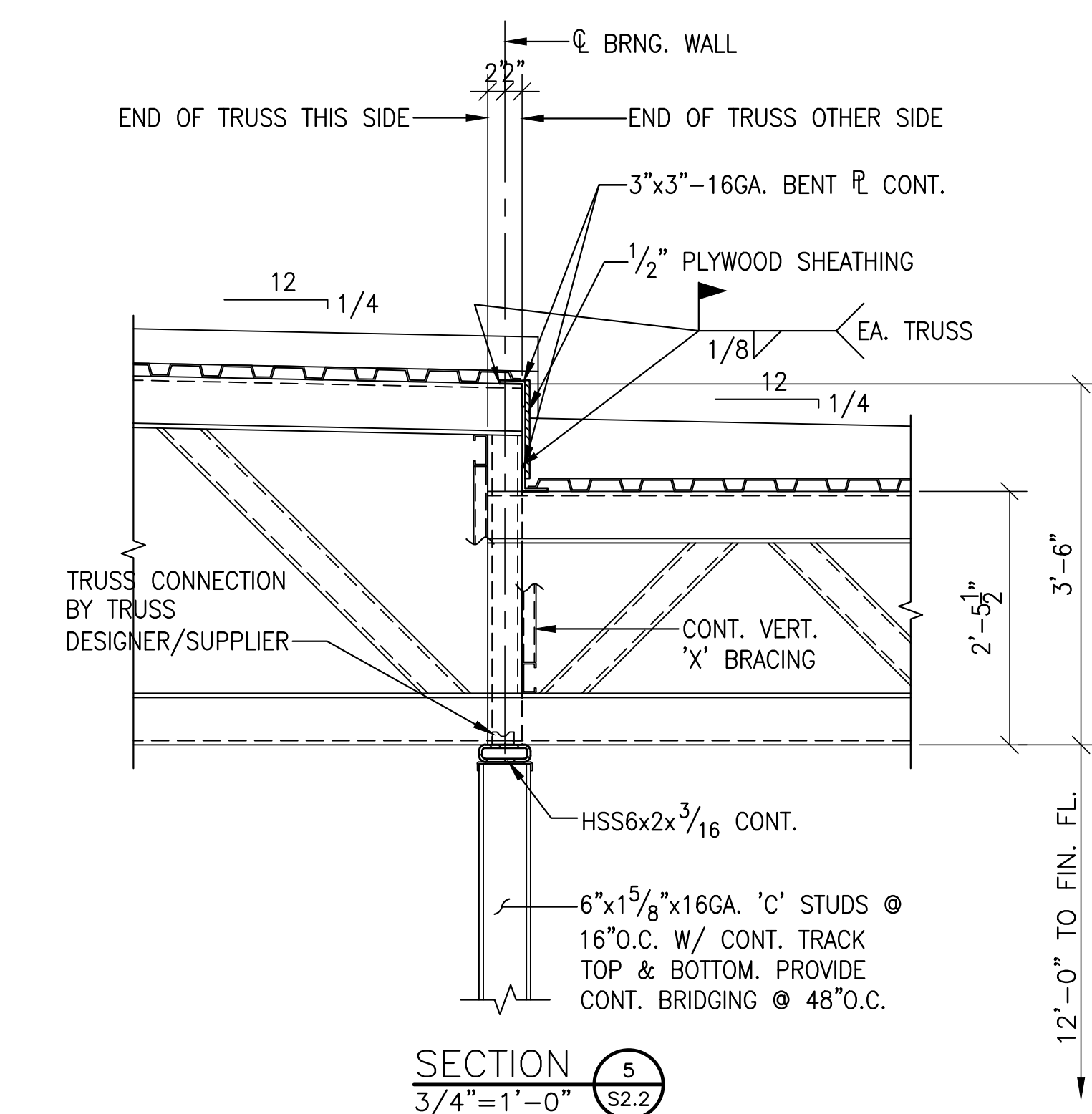
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S2.2

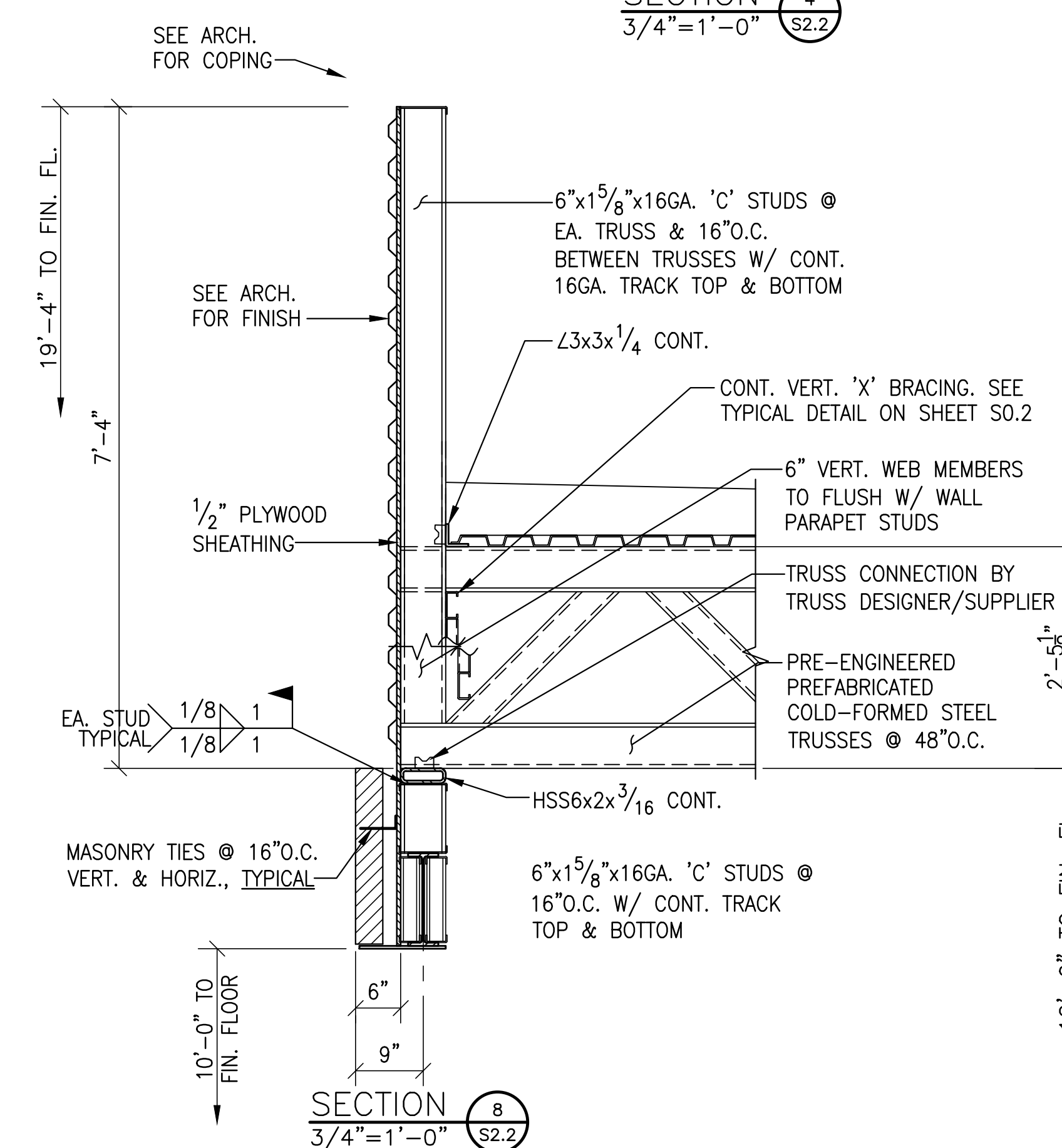
CONFORMANCE
DOCUMENTS



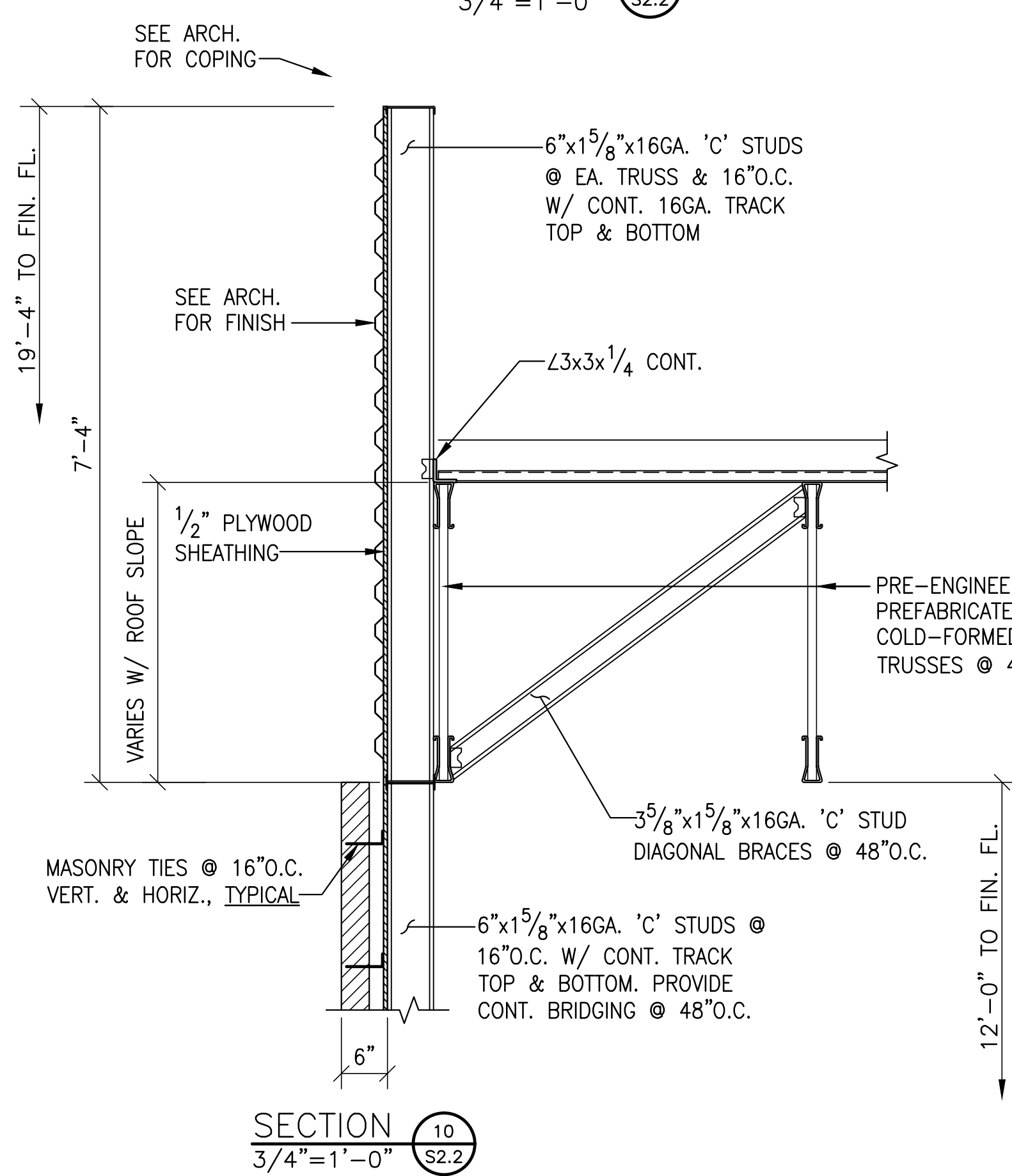
SECTION 4
3/4"=1'-0" S2.2



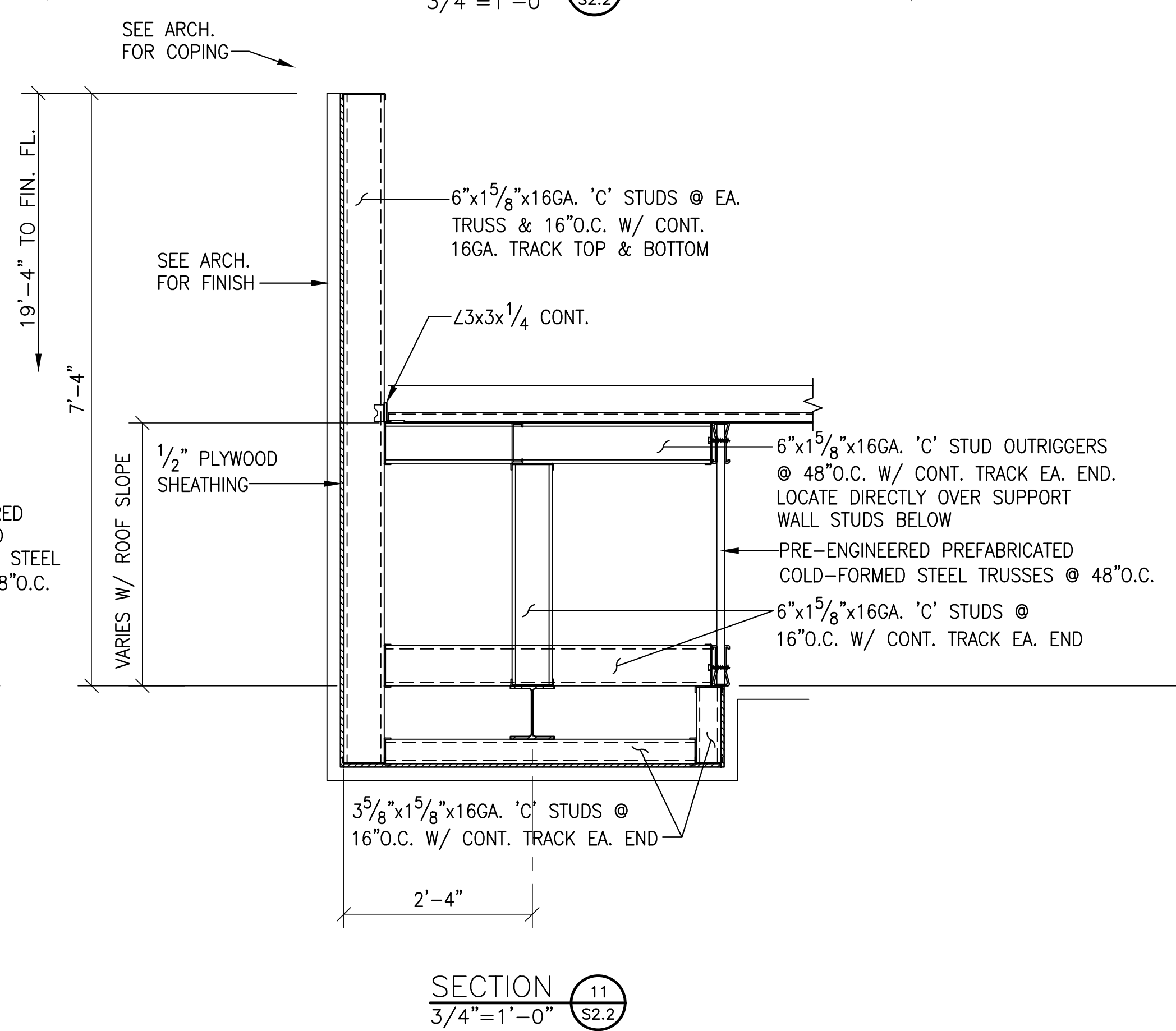
SECTION 7
3/4"=1'-0" S2.2



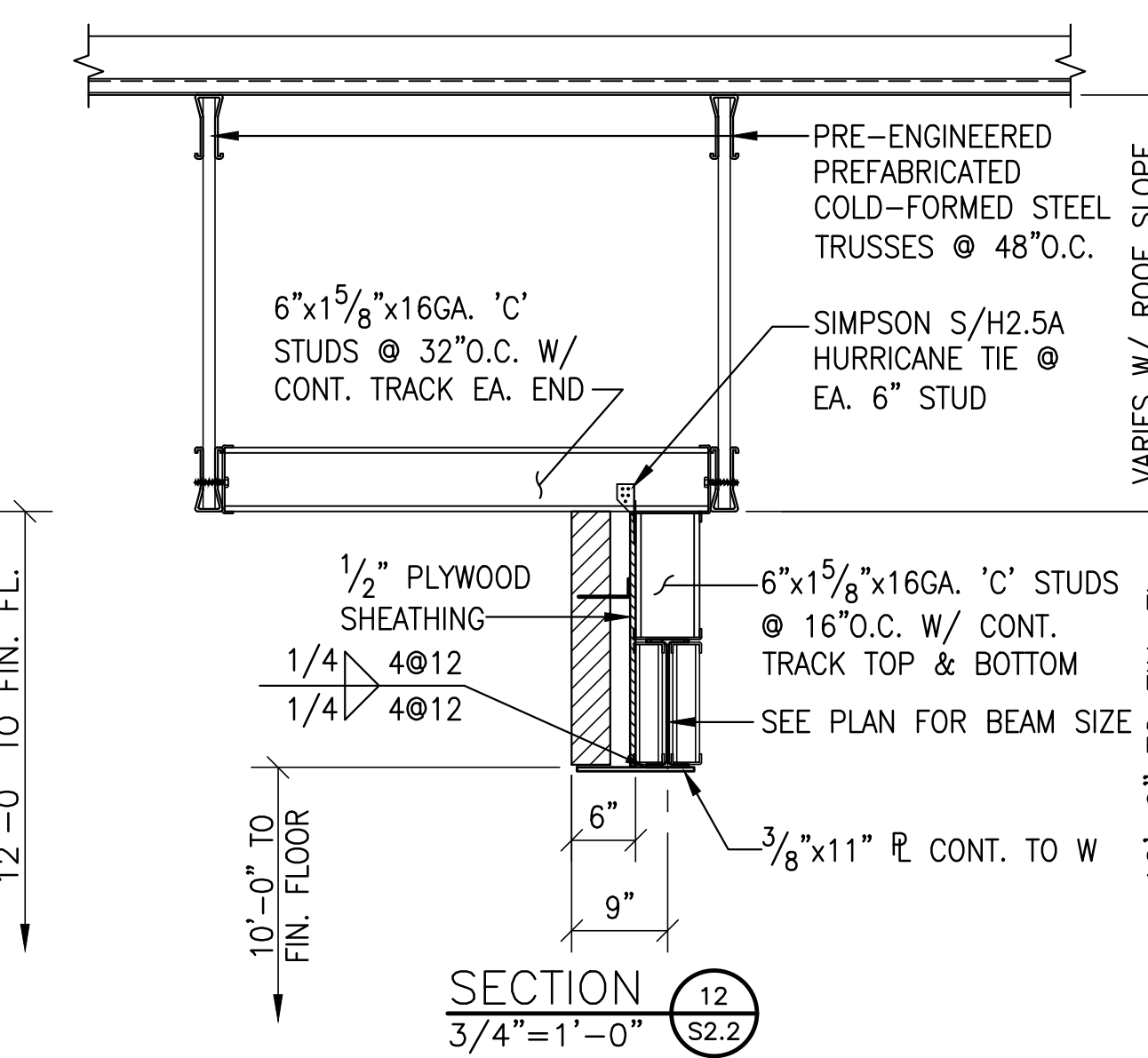
SECTION 8
3/4"=1'-0" S2.2



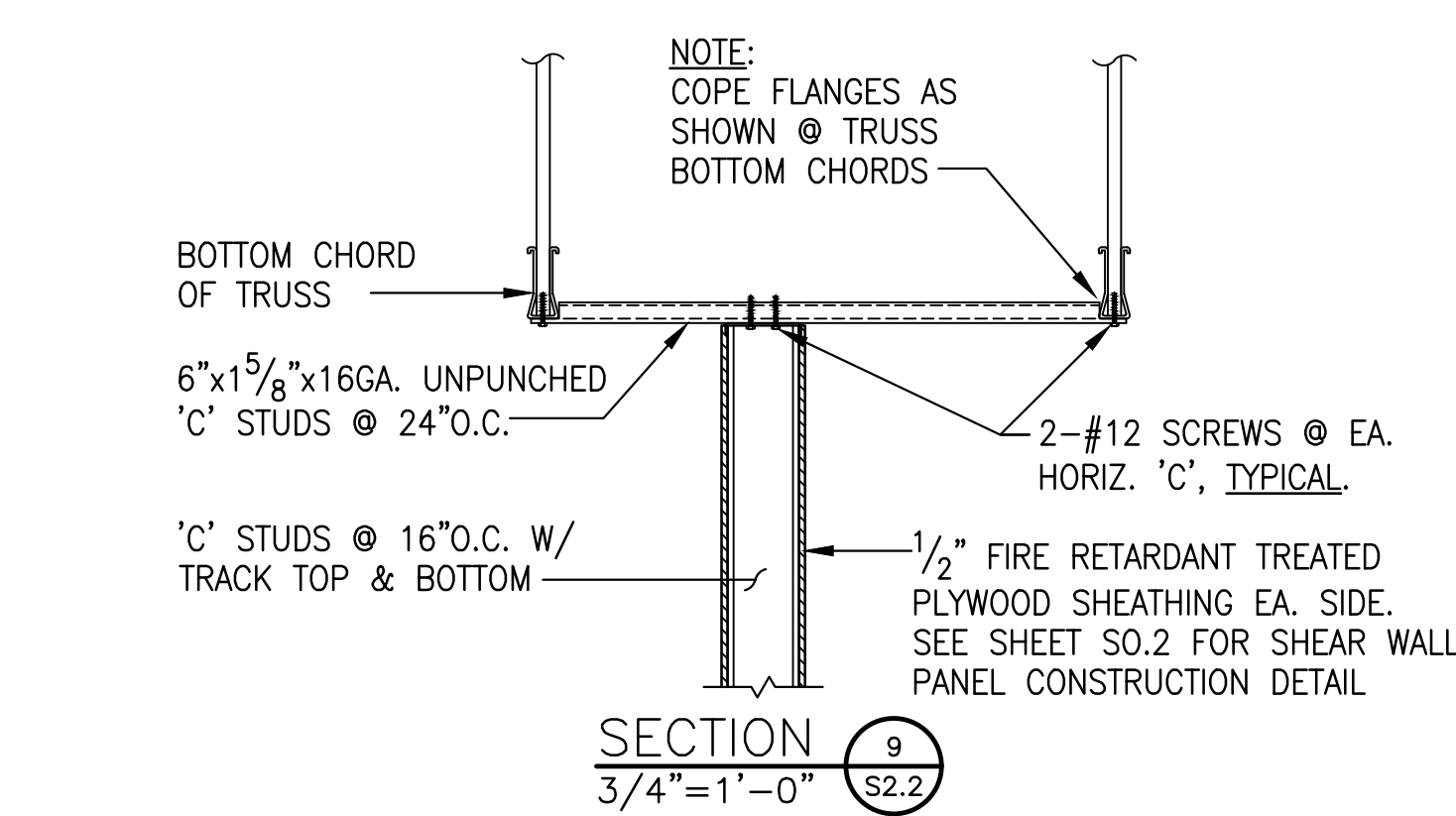
SECTION 9
3/4"=1'-0" S2.2



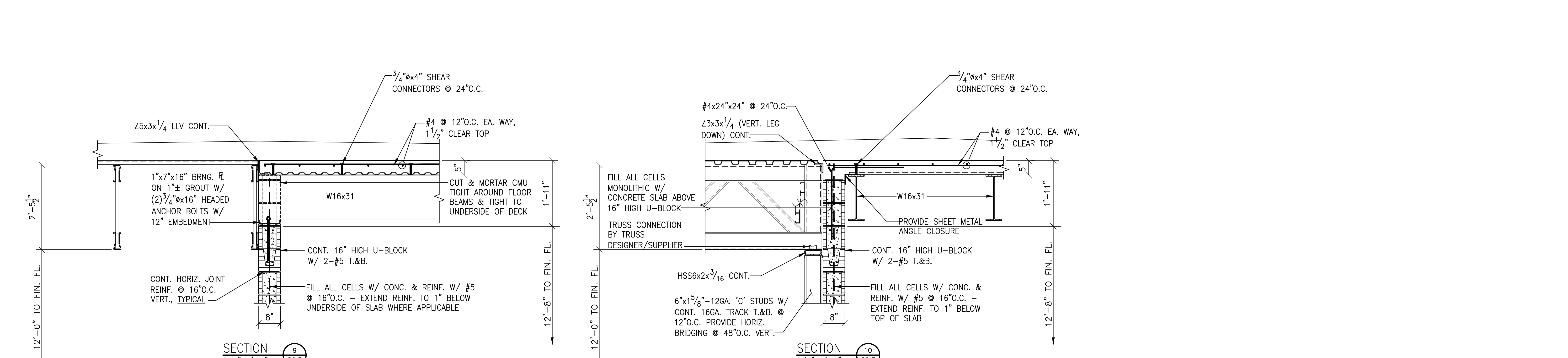
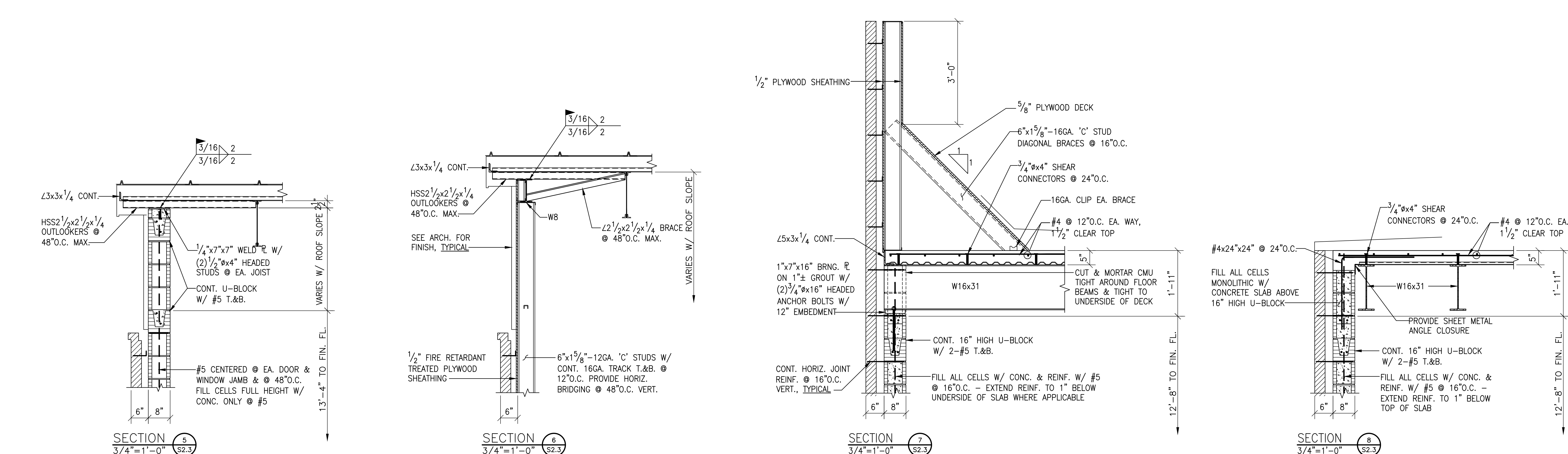
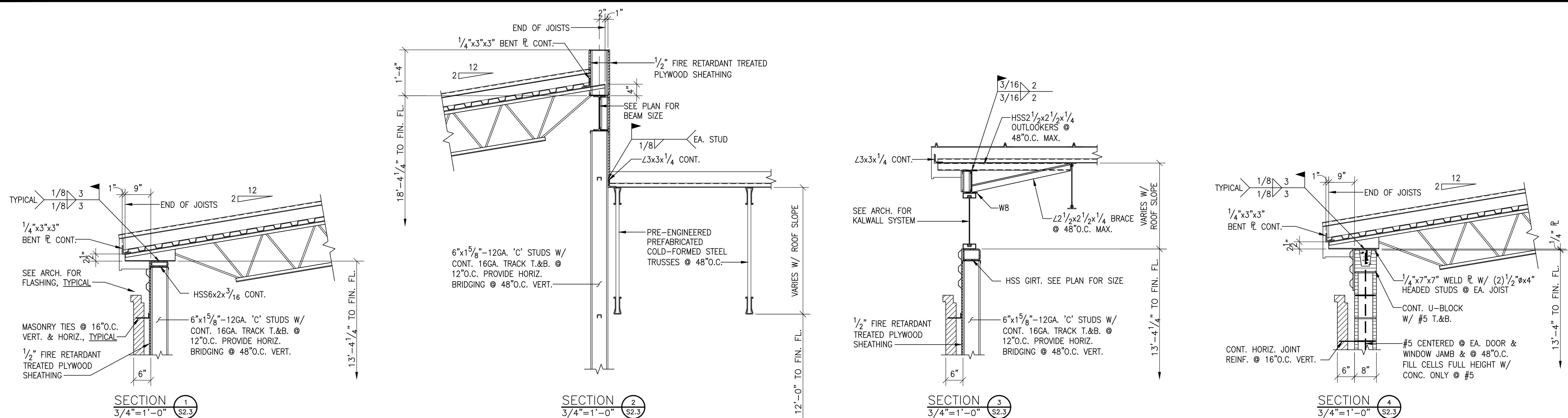
SECTION 10
3/4"=1'-0" S2.2



SECTION 11
3/4"=1'-0" S2.2



SECTION 12
3/4"=1'-0" S2.2



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	1	Construction Documents	02-09-2023
	2	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: RAS
Date: 05-17-2023
Scale: AS NOTED

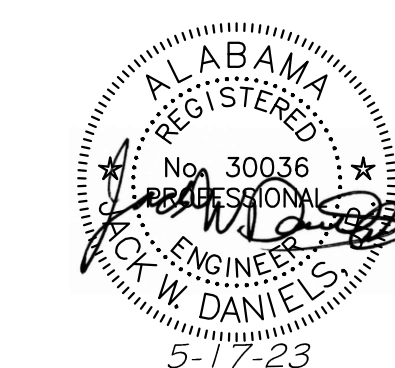
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SECTIONS
AND
DETAILS

Sheet No:

S2.3

CONFORMANCE
DOCUMENTS



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

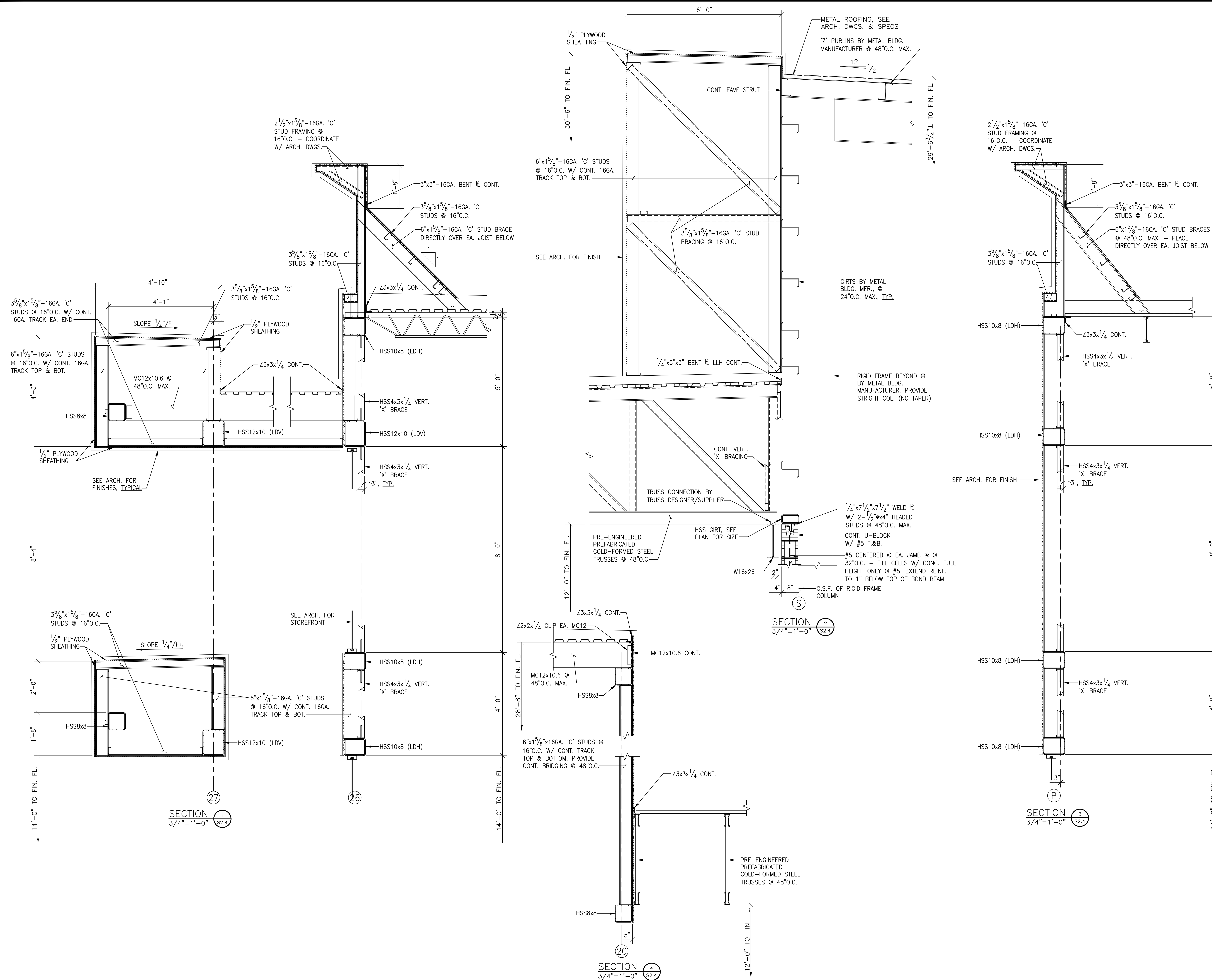
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BDW Project No.	2021-118
Drawn By:	RAS
Date:	05-17-2023
Scale:	AS NOTED
Drawing Title:	

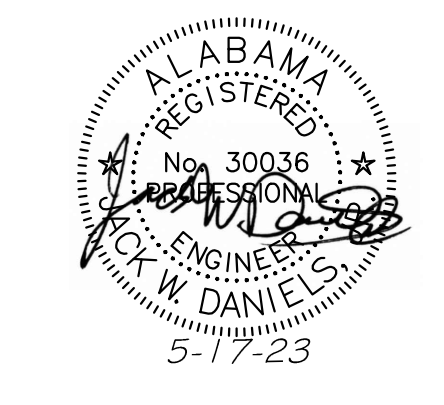
SECTIONS
AND
DETAILS

Sheet No:

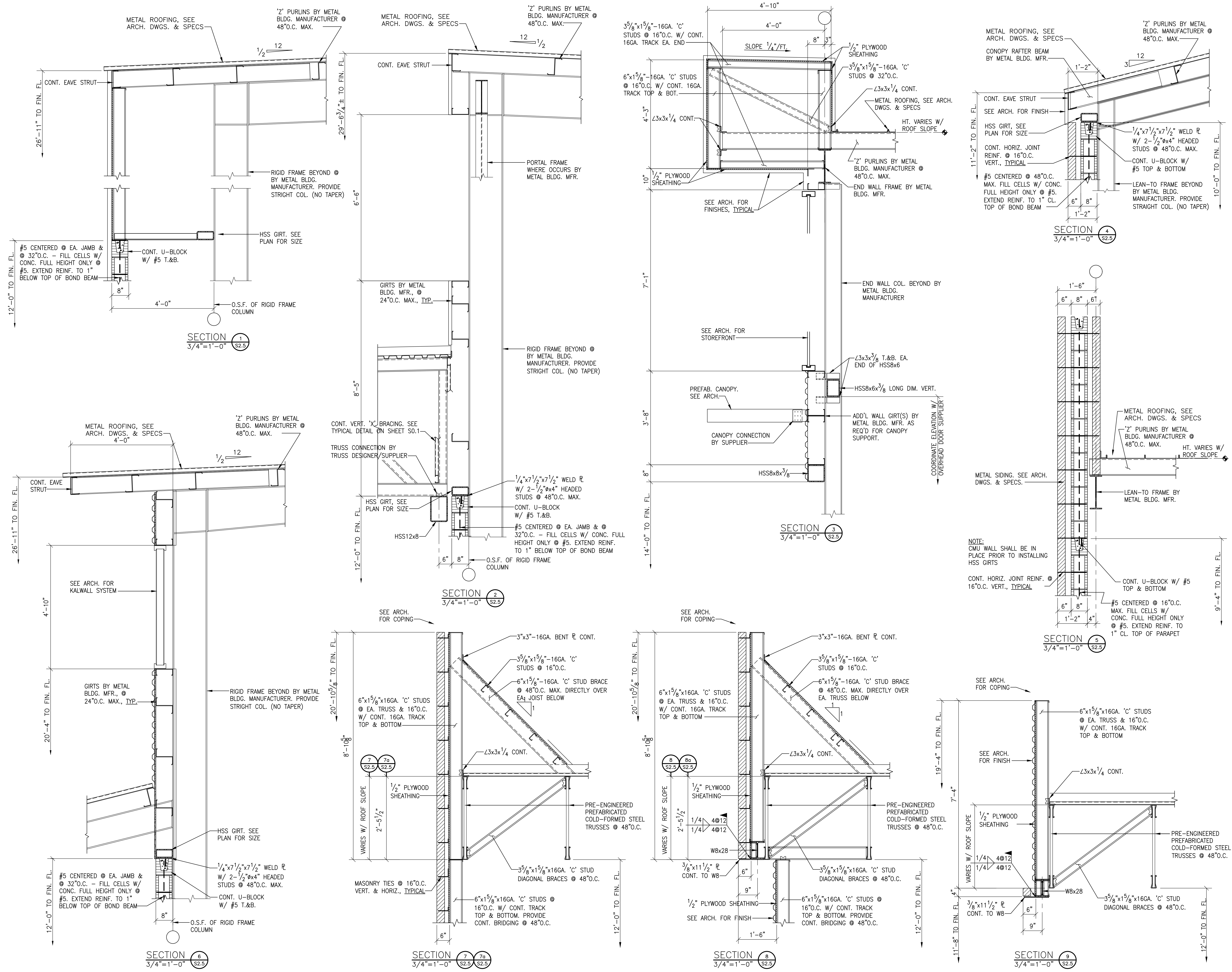
S2.4

CONFORMANCE
DOCUMENTS





NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104



REVISIONS		
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MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: RAS
Date: 05-17-2023
Scale: AS NOTED
Drawing Title:

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REVISIONS	No.	Description	Date
1	Construction Documents	02-03-2023	
2	Conformance Documents	05-17-2023	

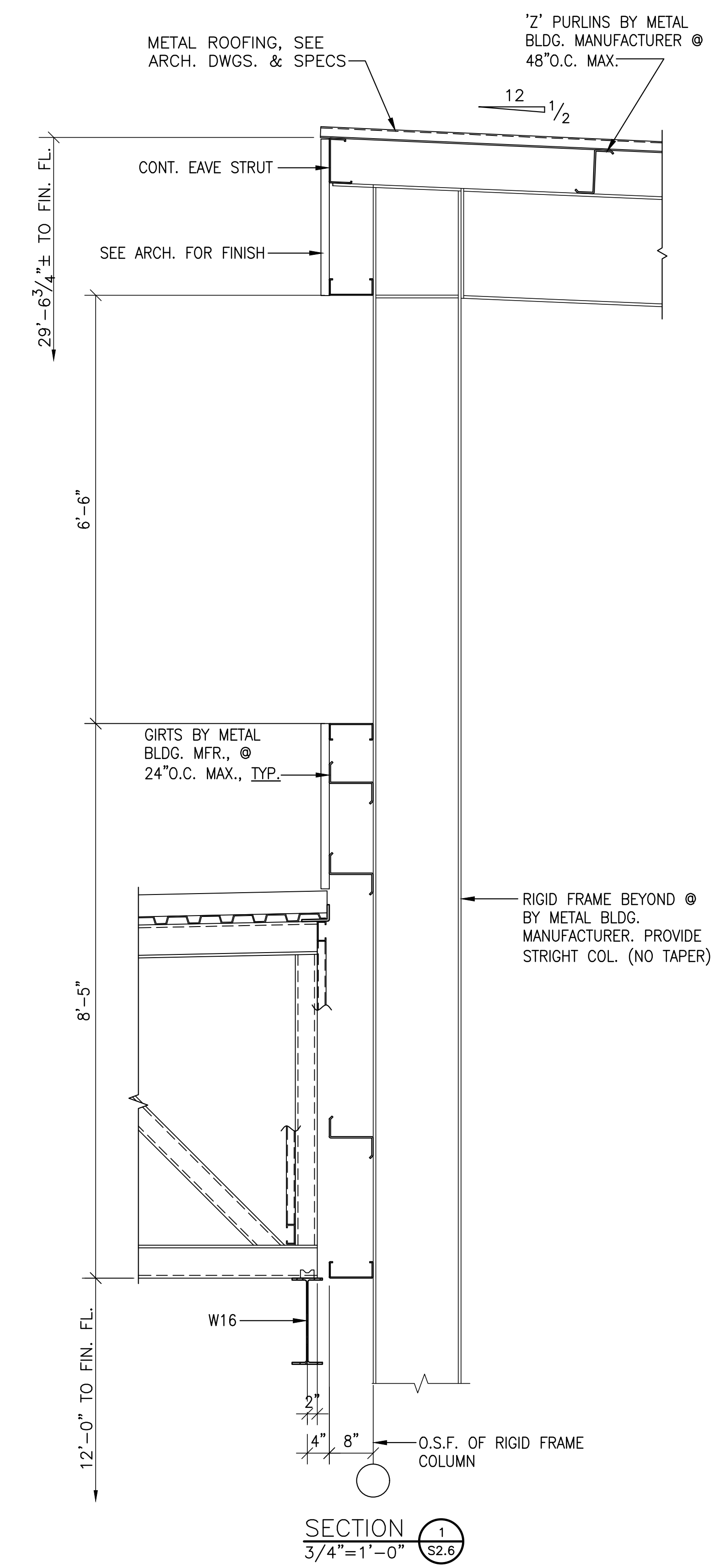
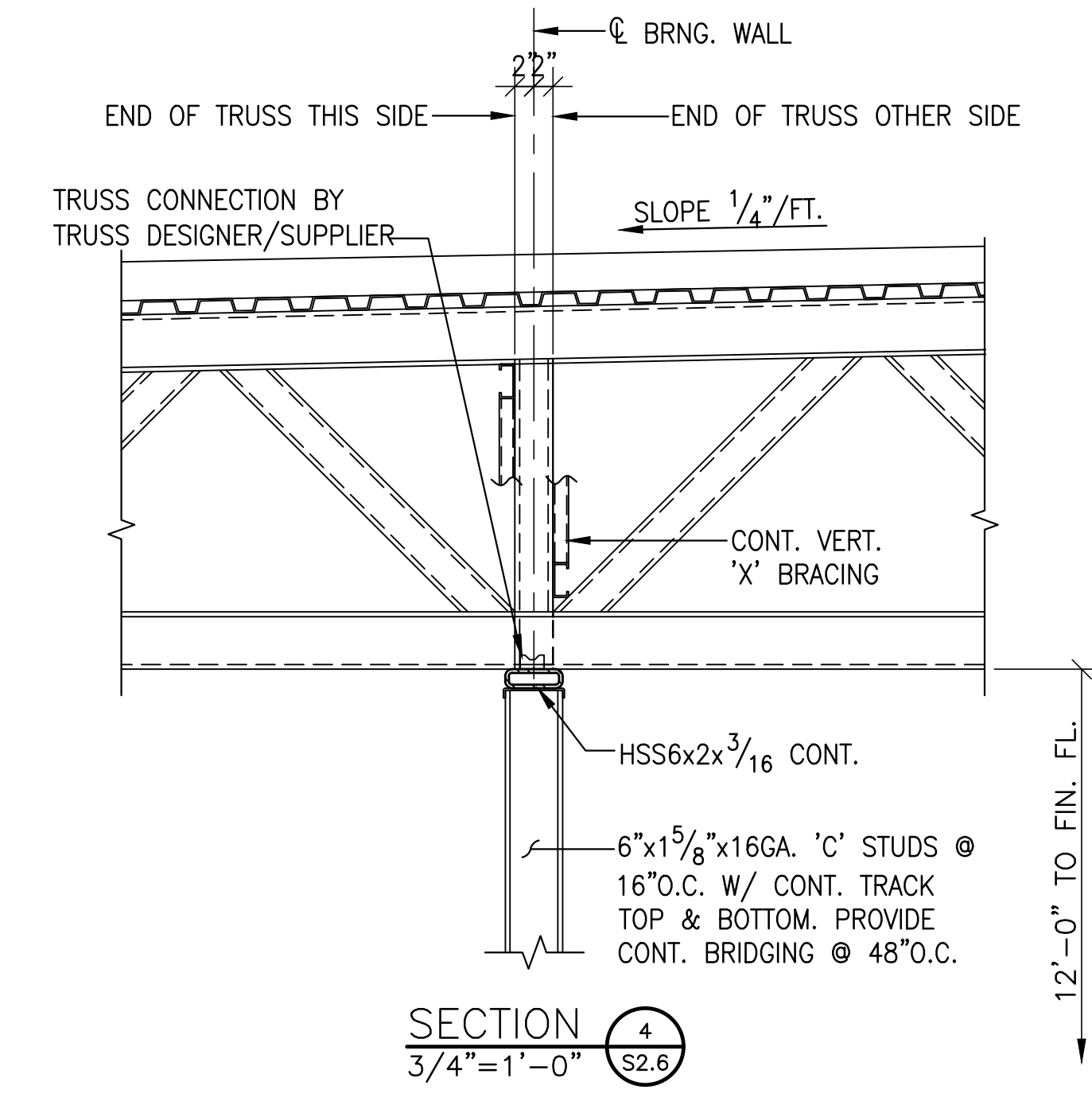
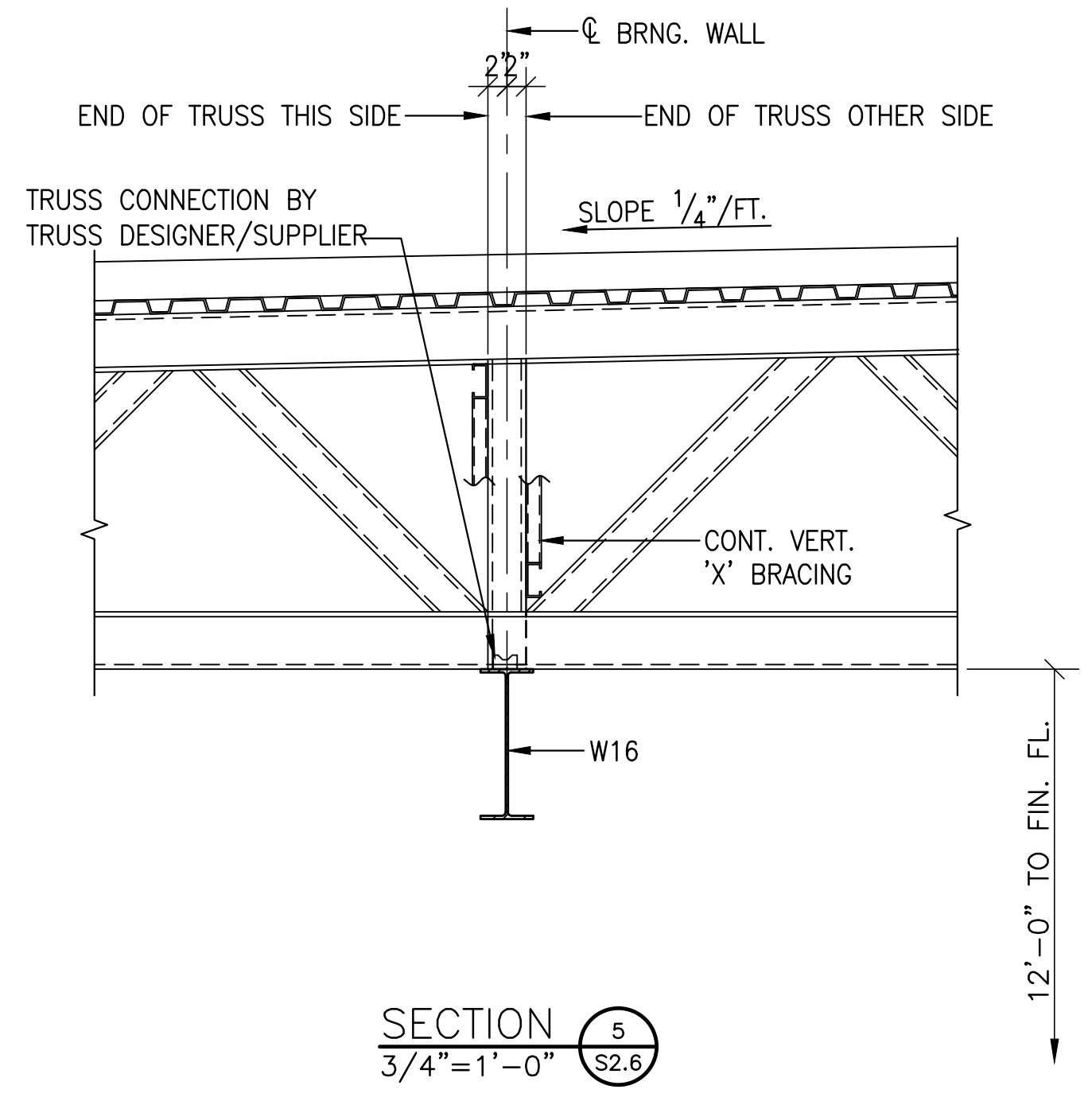
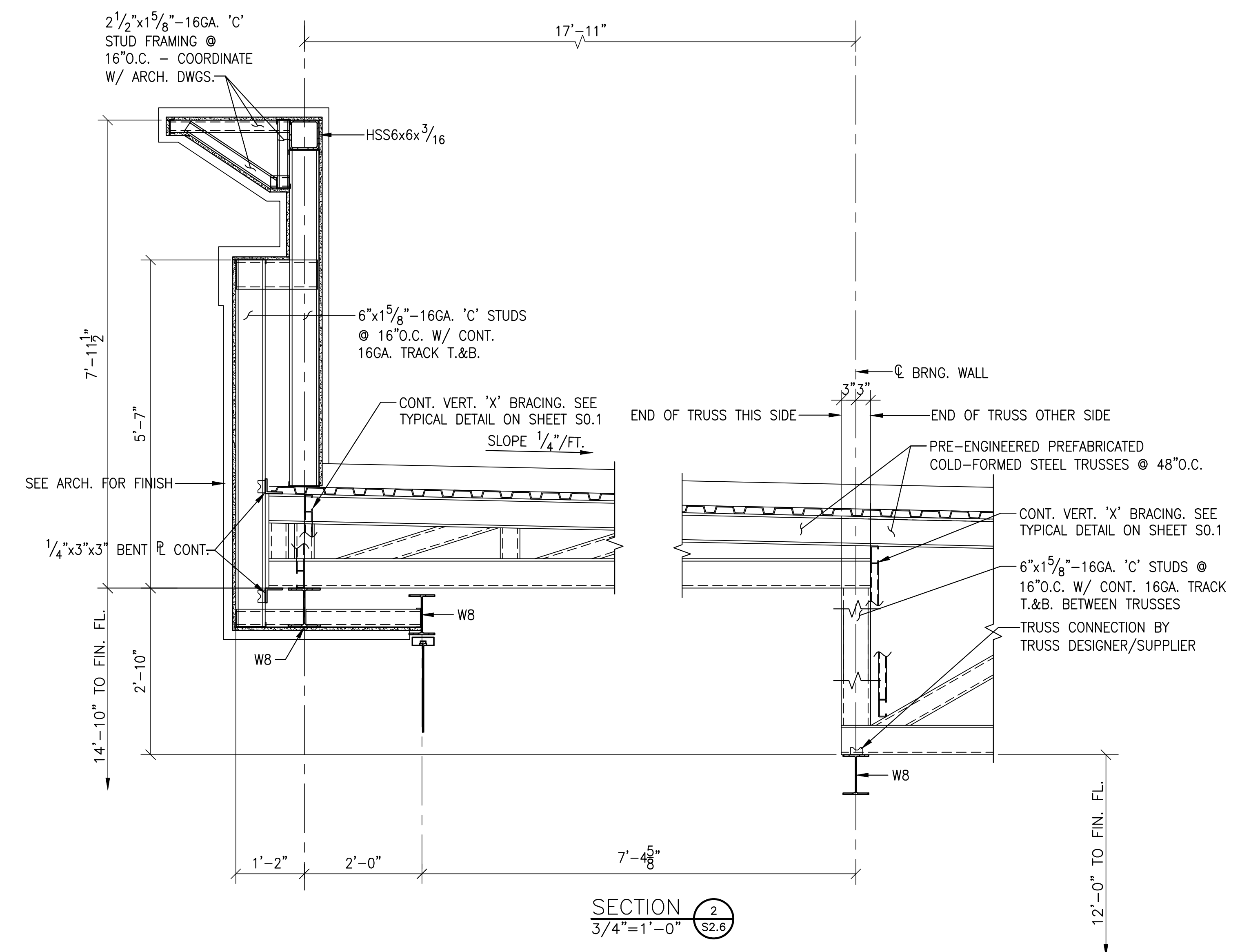
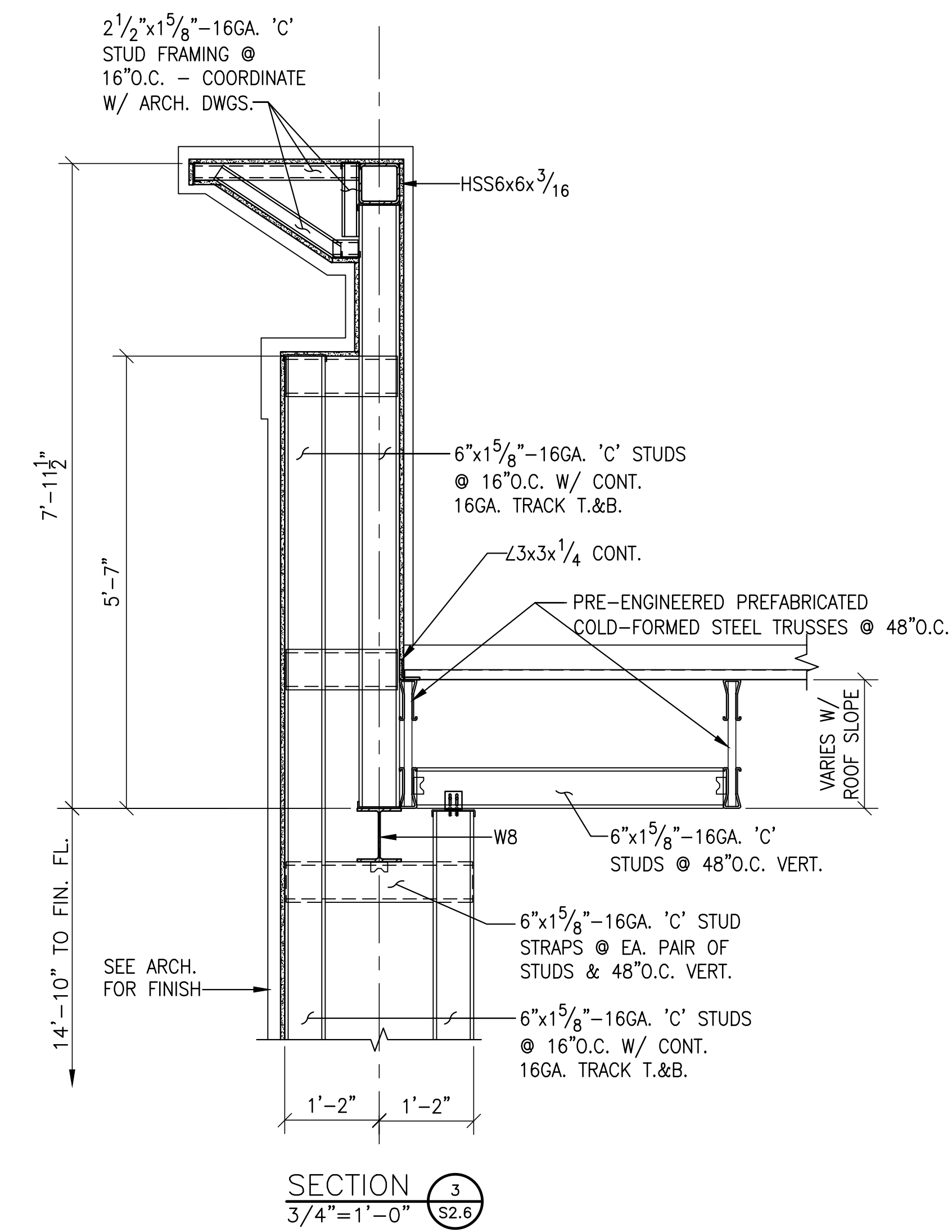
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BDW Project No. 2021-118
Drawn By: RAS
Date: 05-17-2023
Scale: AS NOTED

SECTIONS
AND
DETAILS

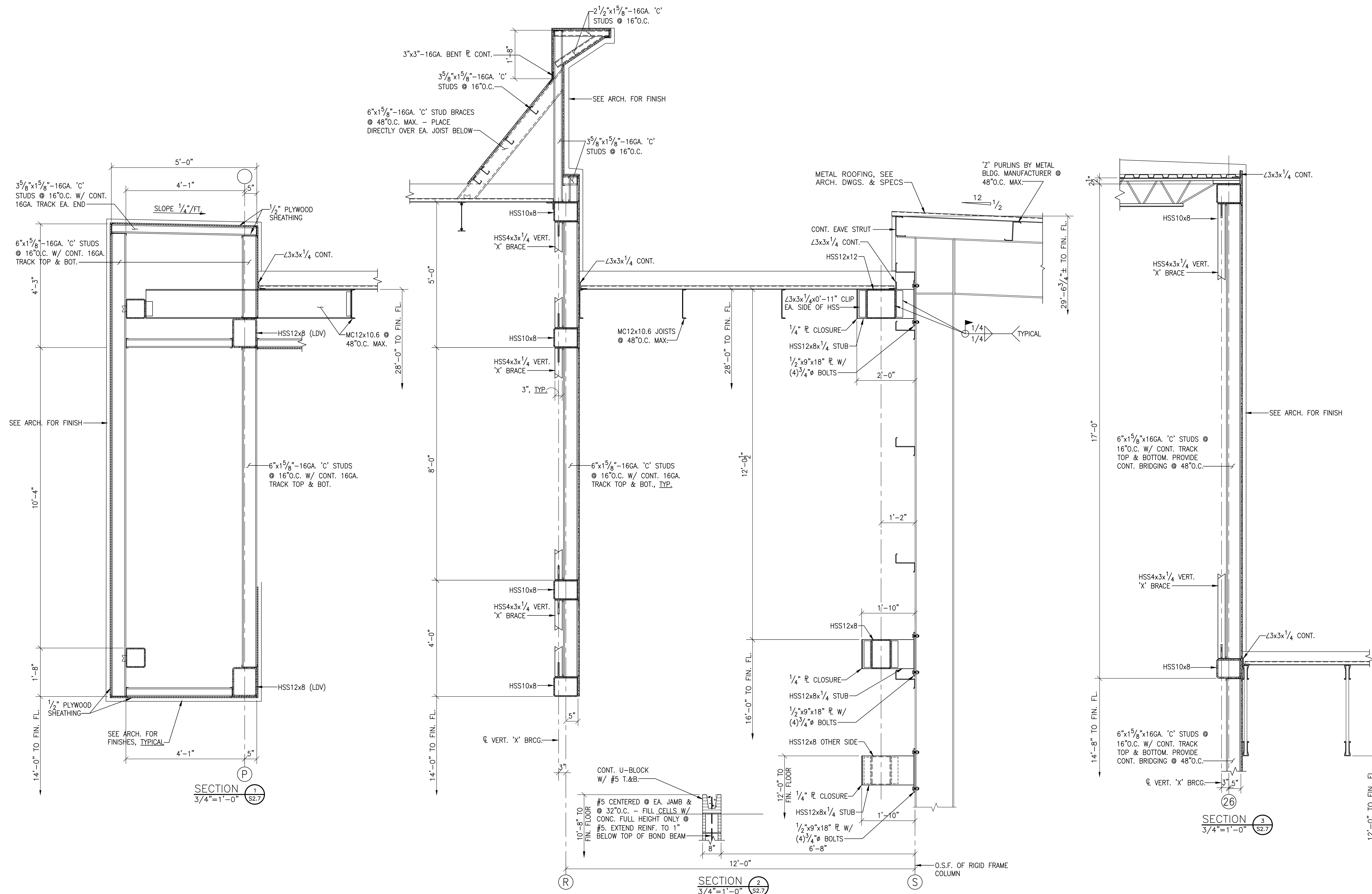
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CONFORMANCE
DOCUMENTS



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THE CITY OF MONTGOMERY
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MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: RAS
Date: 05-17-2023
Scale: AS NOTED

Sheet No:

S2.7

CONFORMANCE DOCUMENTS

PLUMBING FIXTURE SCHEDULE

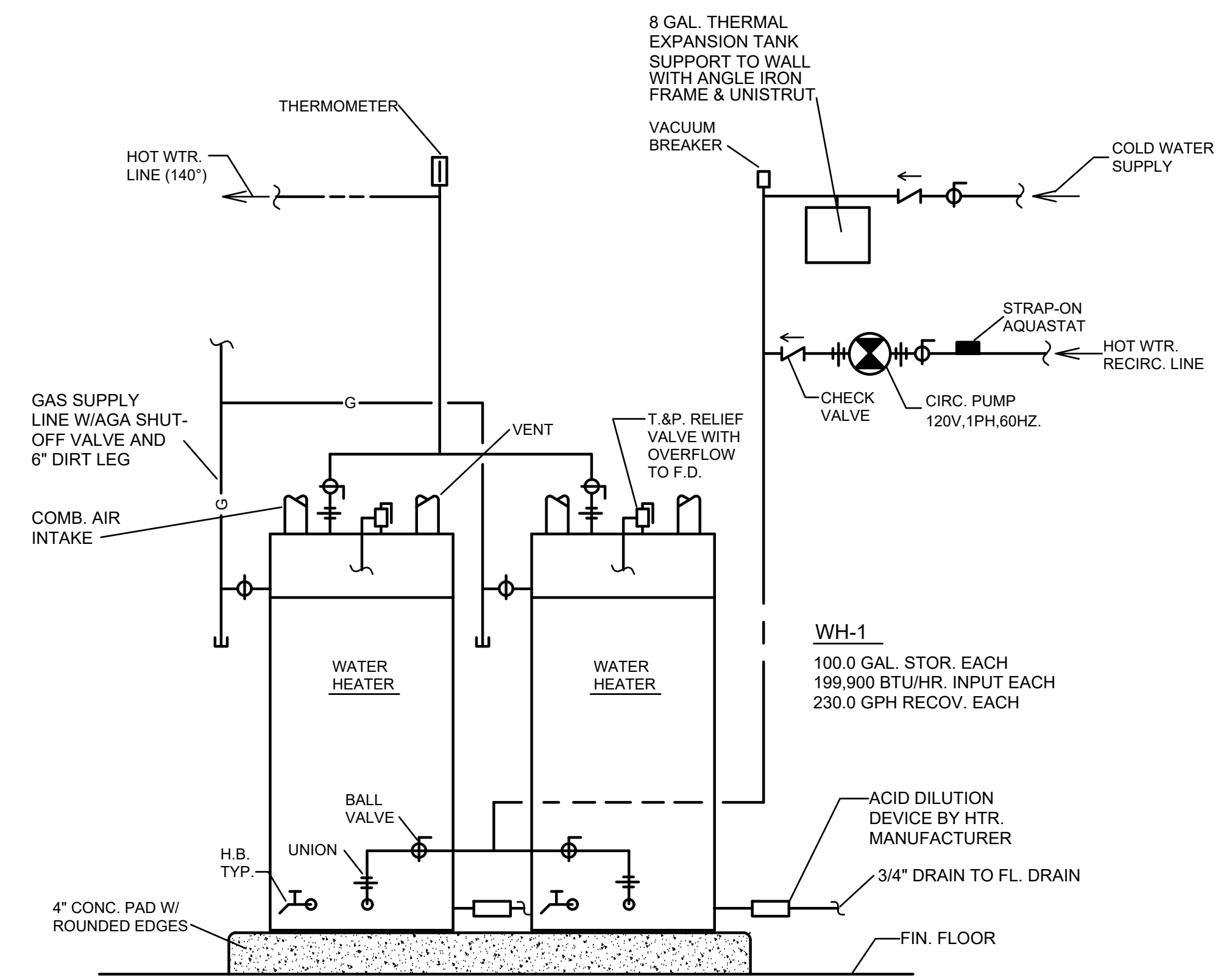
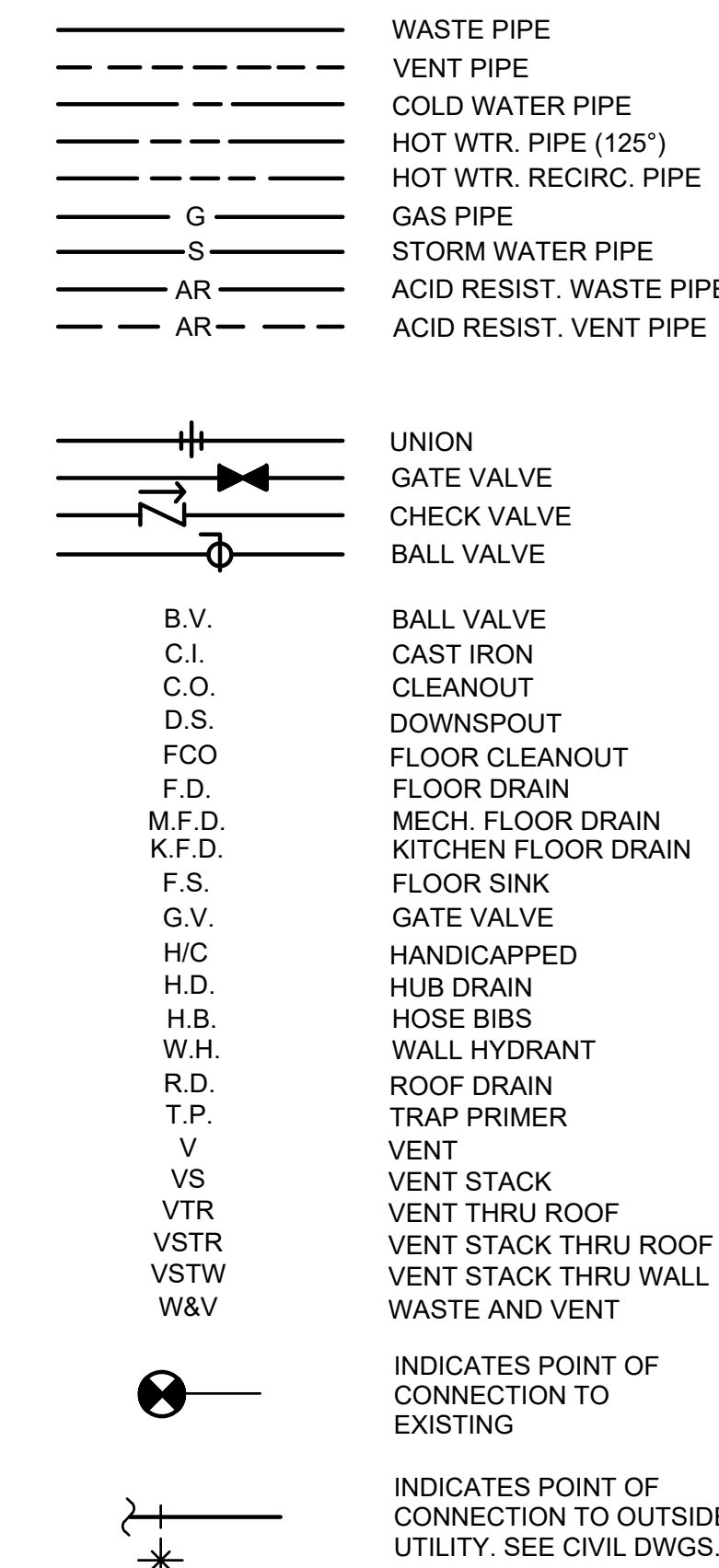
NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	WATER CLOSET	3"	1"	---	FL. MTD. - REG.
P2	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P3	SINK	1-1/2"	1/2"	1/2"	
P4	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P5	MOP BASIN	3"	1/2"	1/2"	FL. MTD. CORNER TYPE
P6	WASHING MACHINE BOX	2"	1/2"	1/2"	W/ INTEGRAL SHOCK ARRESTER
P7	SHOWER	SD	1/2"	1/2"	ROUGH-IN AND CONN.
P8	ADA SHOWER	SD	1/2"	1/2"	ROUGH-IN AND CONN.
P9	REFRIG. ICE MAKER	---	1/2"	---	ROUGH-IN AND CONN.
P10	DISHWASHER	1/2"	1/2"	---	ROUGH-IN AND CONN.
P11	LAVATORY **	1 1/4"	1/2"	1/2"	MTD. IN COUNTER
P12	SINK	F.S.	1/2"	1/2"	2-COMPARTMENT SINK
P13	SINK	1-1/2"	1/2"	1/2"	1-COMP SINK COUNTER MOUNTED
P14	H-I/O ELECTRIC WATER COOLER	1-1/2"	1/2"	---	
P15	ICE MACHINE	F.S.	1/2"	---	ROUGH-IN AND CONN.
P16	SHOWER	SD	1/2"	1/2"	ROUGH-IN AND CONN.
T.P.	TRAP PRIMER	---	1/2"	---	CONNECT TO FLOOR DRAIN AS SPECIFIED

** PROVIDE A WATER TEMPERATURE LIMITING DEVICE EQUAL TO SYMONS R5-210-CK (ASSE STD. 1070) WITH 1/2" TEMPERED WATER LINE TO FAUCET.

GENERAL PLUMBING NOTES

- ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
- ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- FLUSH VALVE HANDLE FOR ALL MANUAL FLUSH WATER CLOSETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AS REQUIRED BY CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ROUGH-IN ADA WATER CLOSETS 18" FROM FINISHED WALL TO CENTERLINE OF THE WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF THE STALL TO THE FINISHED WALL.
- PROVIDE A CAST IRON DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN.
- ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE.
- ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING EXTERIOR WALL INSULATION.
- COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR, ETC. MAINTAIN CLEARANCES AS REQUIRED BY RESPECTIVE CODES.
- ALL PIPING AND FITTINGS Routed IN/THROUGH RETURN AIR PLENUMS, RETURN AIR PLATFORMS, OR FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF. SEE SPECS.
- PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" DISTANCE FROM ALL HVAC OUTSIDE AIR INTAKES.
- PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. LOCATE TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS. PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
- WATER SUPPLY SYSTEM IS DESIGNED FOR A STATIC PRESSURE OF 50 TO 75 PSI. GAUGE WATER SUPPLY PRESSURE AND VERIFY PRESSURE IS WITHIN THE SPECIFIED LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN WATER PRESSURE WITHIN DESIGN LIMITS.
- PROVIDE A BALL VALVE ON EACH SIDE OF EVERY DIELECTRIC UNION TO FACILITATE ITS REMOVAL. TOPS OF ALL OUTSIDE CLEANOUTS SHALL BE FLAT AND BROUGHT TO GRADE AND FINISHED FLUSH IN 12x12x12 CONCRETE PAD.
- ALL INTERIOR AND EXTERIOR WALL HYDRANTS AND HOSE BIBBS SHALL BE LOCATED 24" A.F.F. COORDINATE FINAL HEIGHT OF INDOOR WALL HYDRANTS WITH ARCHITECTURAL CABINET PLANS PRIOR TO ROUGHING IN.
- WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
- ALL HUB DRAINS THAT RISE THROUGH RETURN AIR PLATFORMS SHALL BE INSULATED CAST IRON, SHALL BE TERMINATED TO 6" ABOVE THE RETURN AIR PLATFORM AND SEALED AIR TIGHT. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.
- ALL PIPING WITH VALVES AND OTHER ITEMS THAT MAY REQUIRE MAINTENANCE, SERVICE OR REPLACEMENT, SHALL BE LOCATED NO MORE THAN 12" ABOVE THE FINISHED CEILING AND NO MORE THAN 14'-0" ABOVE FINISH FLOOR IN AREAS WITHOUT CEILINGS. TO ENSURE PROPER ACCESS. PROVIDE DROPS IN PIPING AS REQUIRED FOR COMPLIANCE.

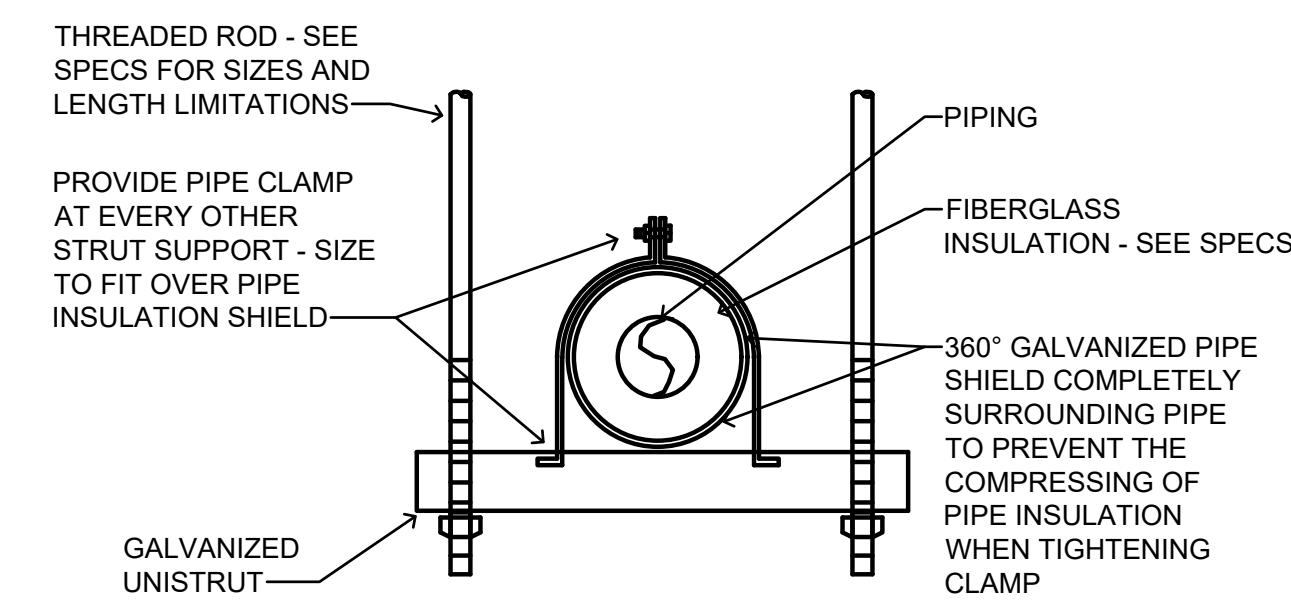
LEGEND



WATER HEATER PIPING CONN. DETAIL

NO SCALE

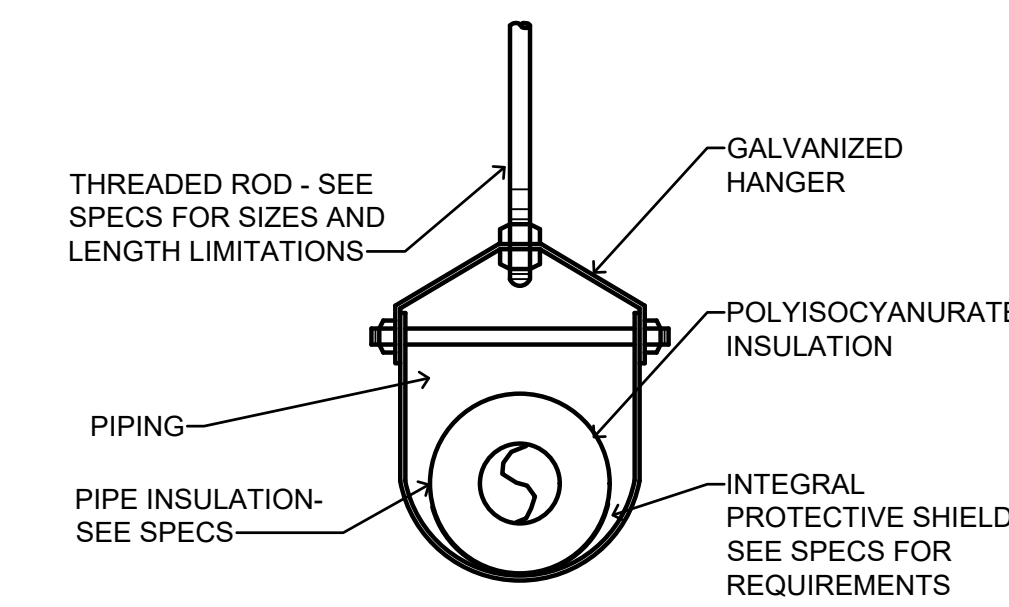
- PROVIDE ACID DILUTION DEVICE FOR EACH WATER HEATER - SEE SPECS
- PIPING TO ACID DILUTION DEVICE SHALL BE PVDF. PIPING DOWNSTREAM OF ACID DILUTION DEVICE SHALL BE SCHEDULE 80 PVC - SEE SPECS
- DO NOT USE PVC PIPE FOR VENTING/COMBUSTION AIR - SEE SPECS



TYPICAL UNISTRUT HANGER DETAIL

NO SCALE

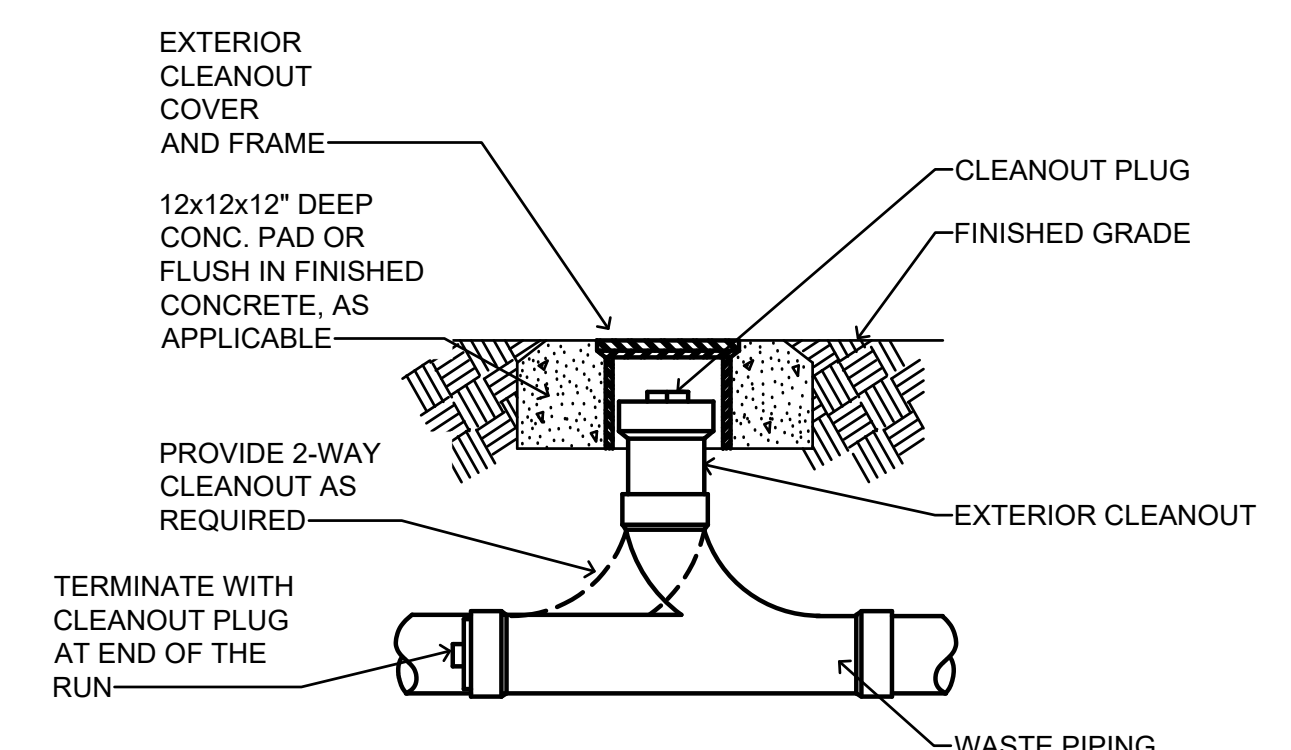
- NOTES:
- HANGER SPACING TO BE AS SPECIFIED.



TYPICAL PIPE HANGER DETAIL

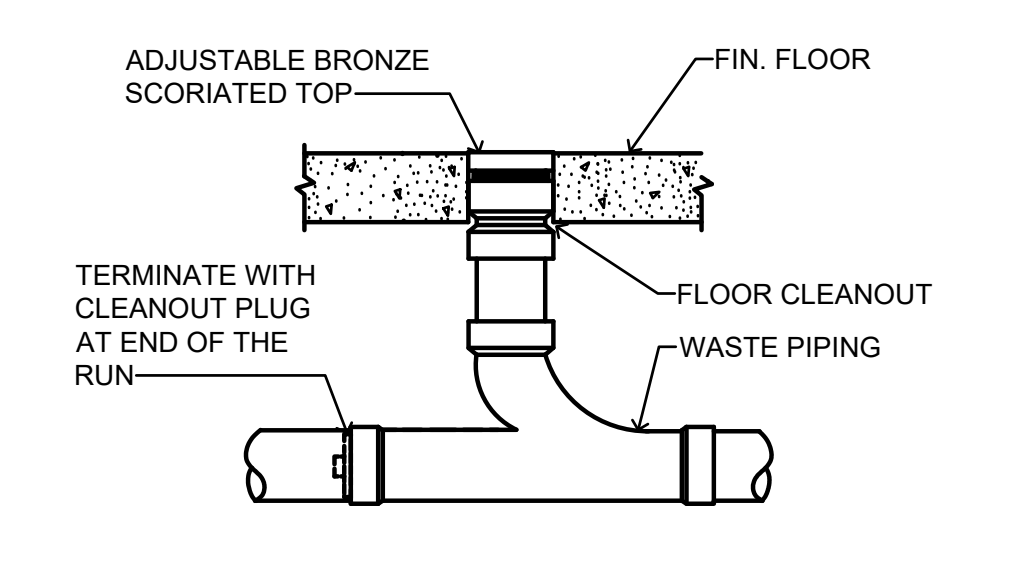
NO SCALE

- NOTES:
- HANGER SPACING TO BE AS SPECIFIED.
 - MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.



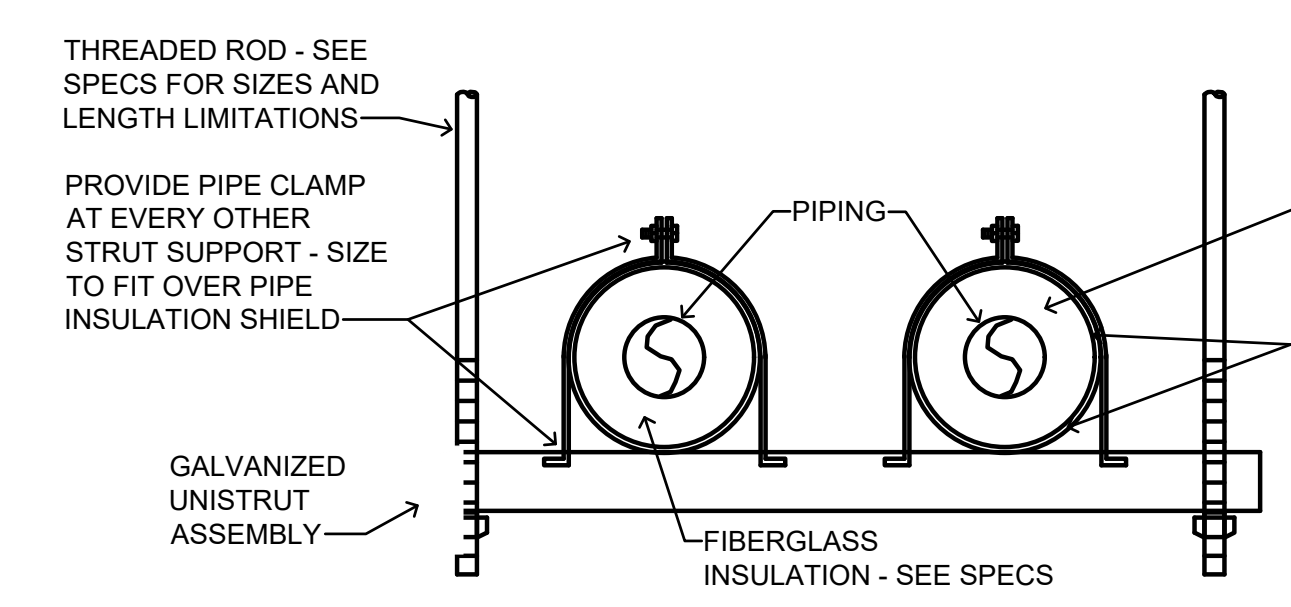
TYP. EXTERIOR CLEANOUT DETAIL

NO SCALE



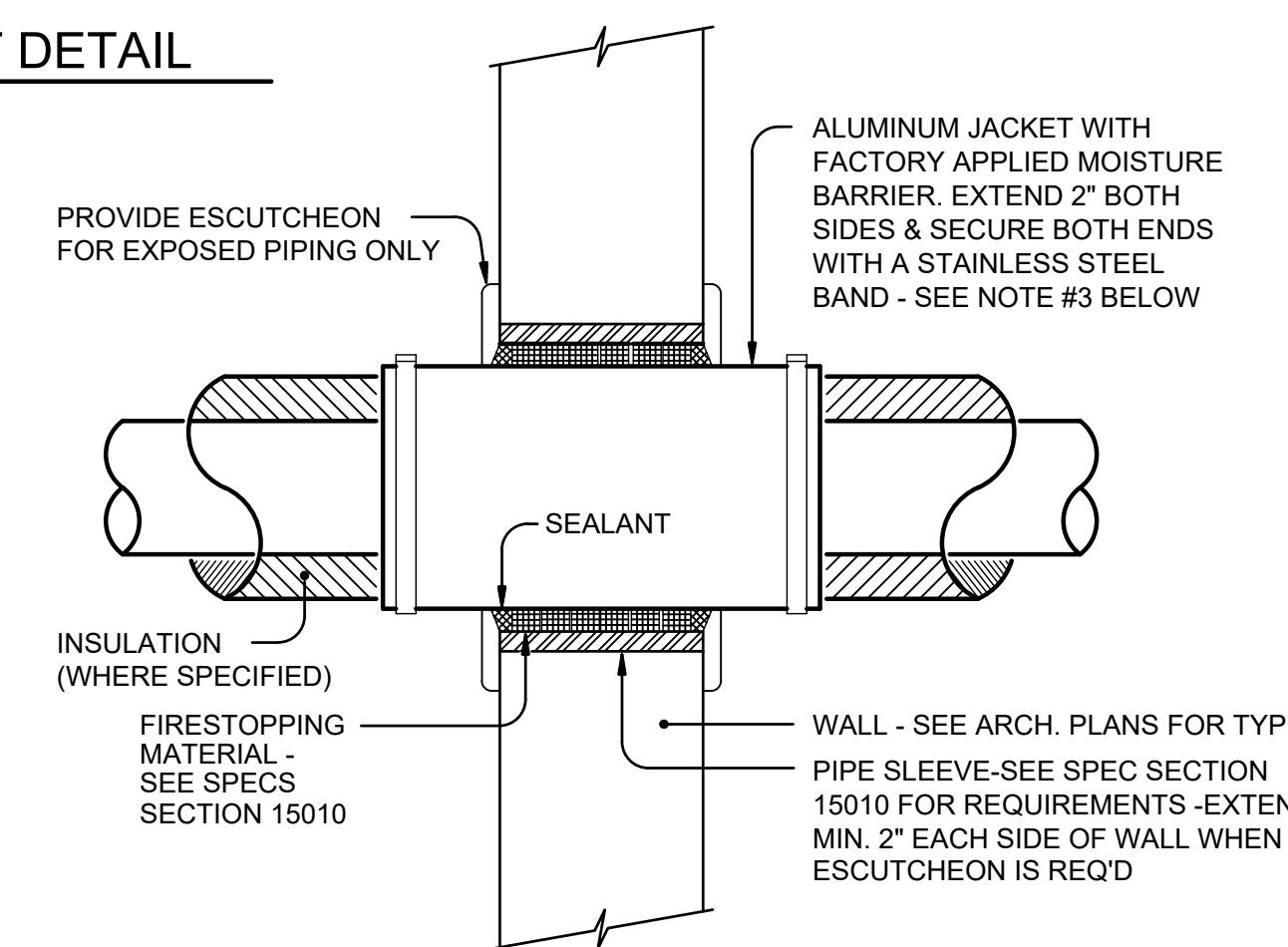
TYP. FLOOR CLEANOUT DETAIL

NO SCALE



TYPICAL MULTIPLE PIPES HANGER DETAIL

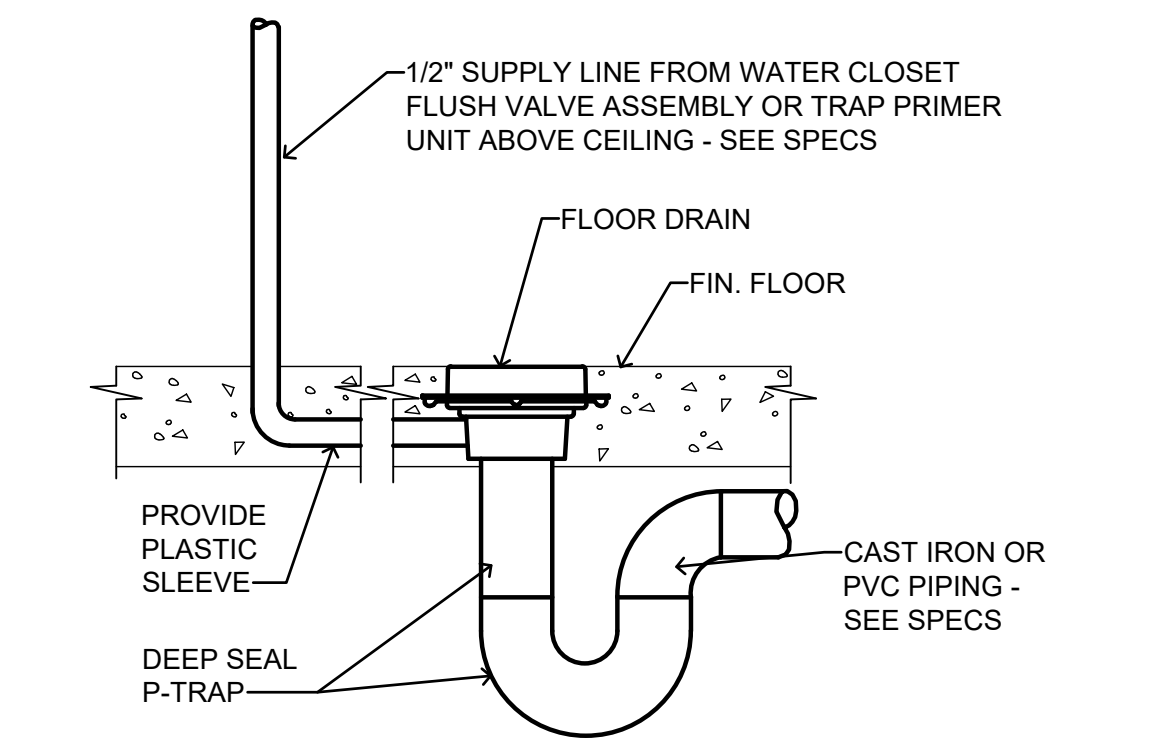
NO SCALE



INTERIOR WALL PIPE PENETRATION DETAIL

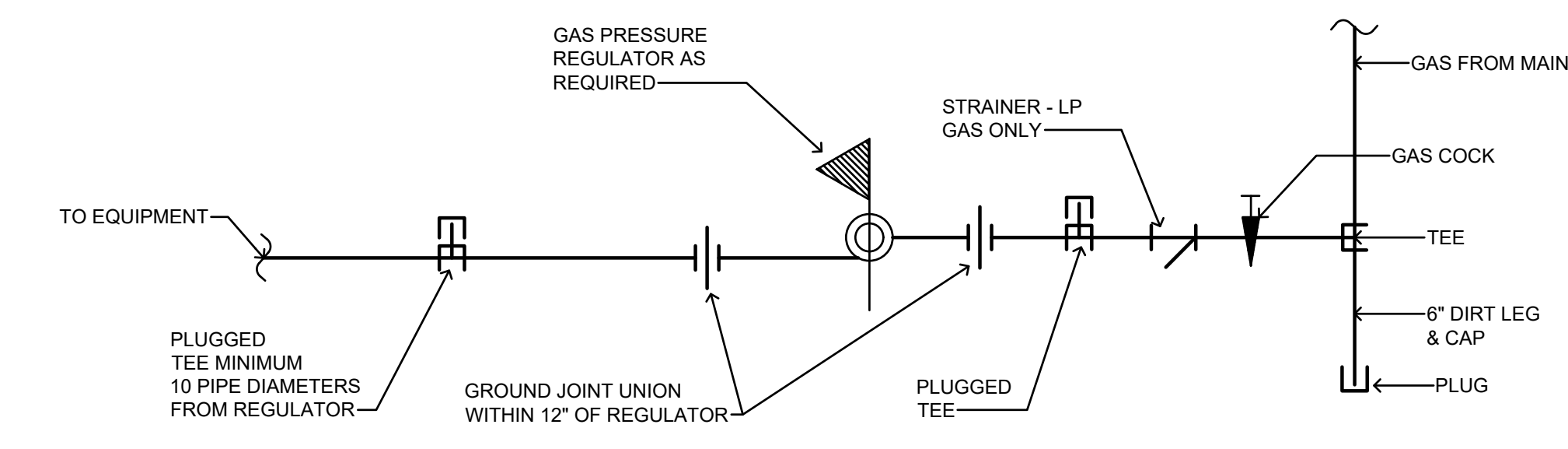
NOT TO SCALE

- NOTES:
- DETAIL APPLIES TO ALL PIPING ABOVE AND BELOW THE CEILING.
 - AT GYPSUM BOARD WALLS, PROVIDE MINIMUM 1/8 GA. GALVANIZED STEEL SLEEVE WITH LOCKING TYPE LONGITUDINAL SEAM.
 - OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.
 - ONLY ONE PIPE PER SLEEVE ALLOWED



TRAP PRIMER DETAIL

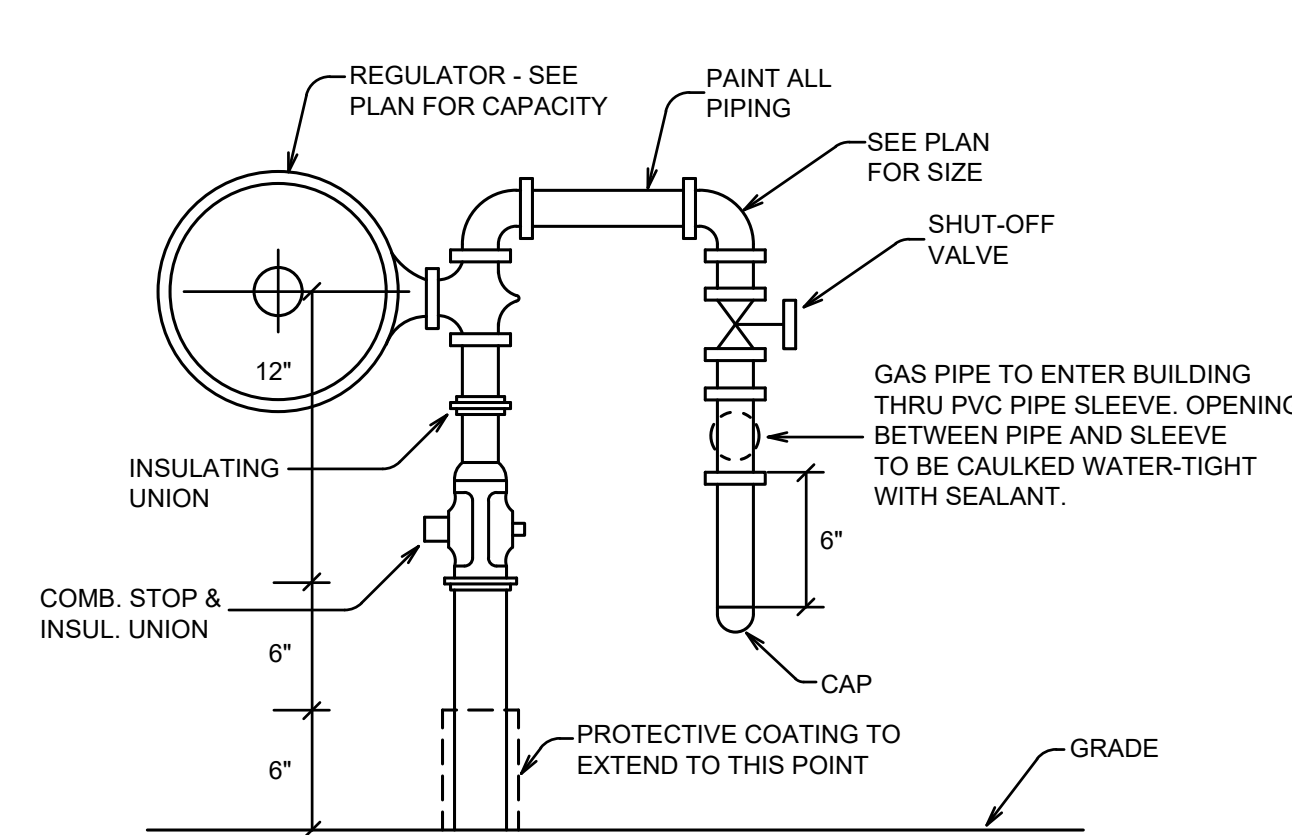
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TYPICAL GAS PIPING CONN. DETAIL

NOT TO SCALE

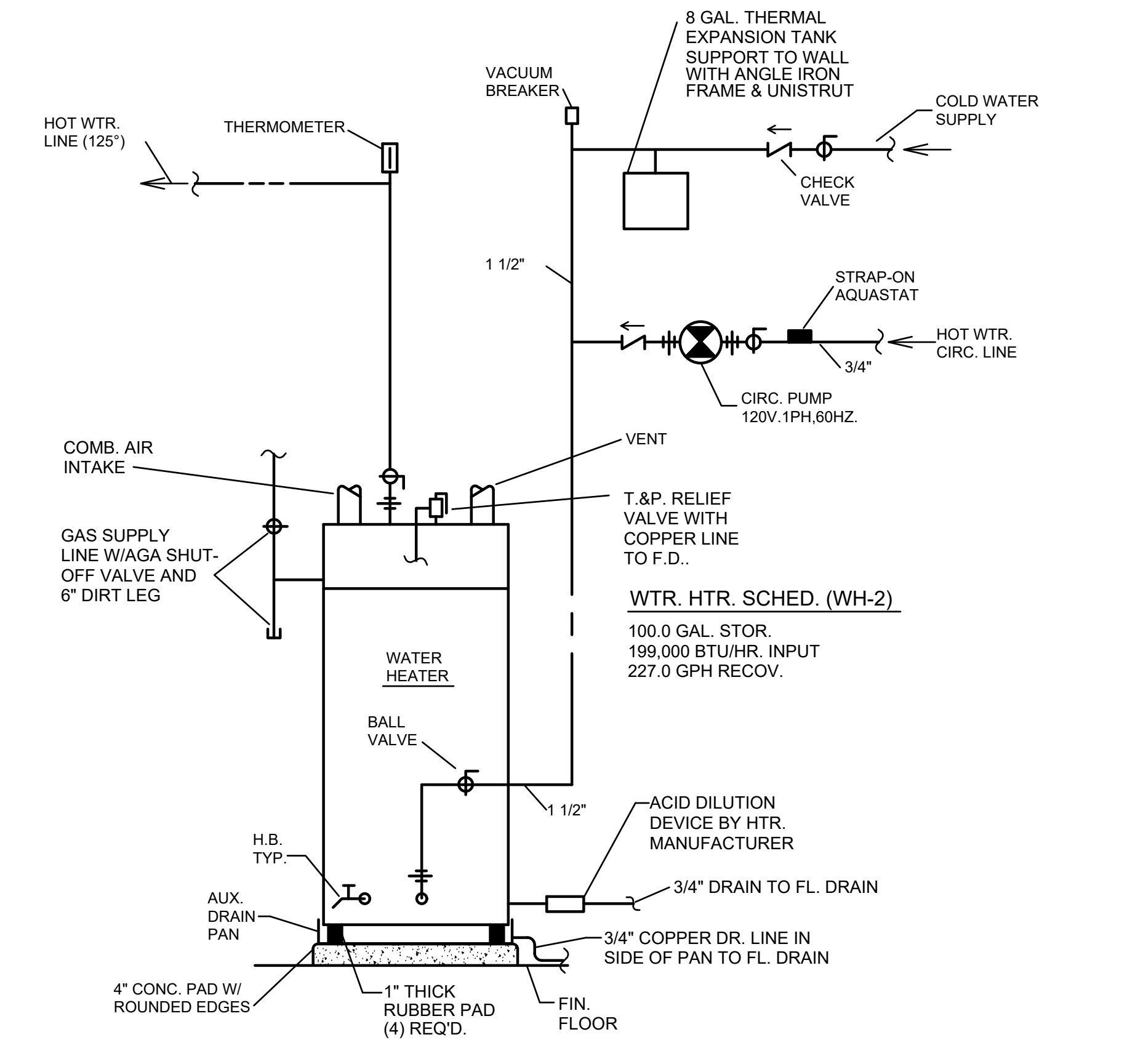
GAS PIPING SIZED FOR 2PSI - PROVIDE ASSEMBLY AT EACH PIECE OF GAS FIRED EQUIPMENT/APPLIANCE



GAS PRESSURE REGULATOR DETAIL

NO SCALE

GAS PRESSURE REGULATOR BY PLUMBING CONTRACTOR. UPSTREAM GAS PIPING BY CIVIL CONTRACTOR. SEE CIVIL DRAWINGS.



WATER HEATER PIPING CONN. DETAIL

NO SCALE

- NOTES:
- PROVIDE ACID DILUTION DEVICE FOR EACH WATER HEATER - SEE SPECS
 - PIPING TO ACID DILUTION DEVICE SHALL BE PVDF. PIPING DOWNSTREAM OF ACID DILUTION DEVICE SHALL BE SCHEDULE 80 PVC. SEE SPECS
 - DO NOT USE PVC PIPE FOR VENTING/COMBUSTION AIR - SEE SPECS

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MGM Project No. SP-5-21
BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
PLBG. SCHEDULES
AND DETAILS

Sheet No:

P1



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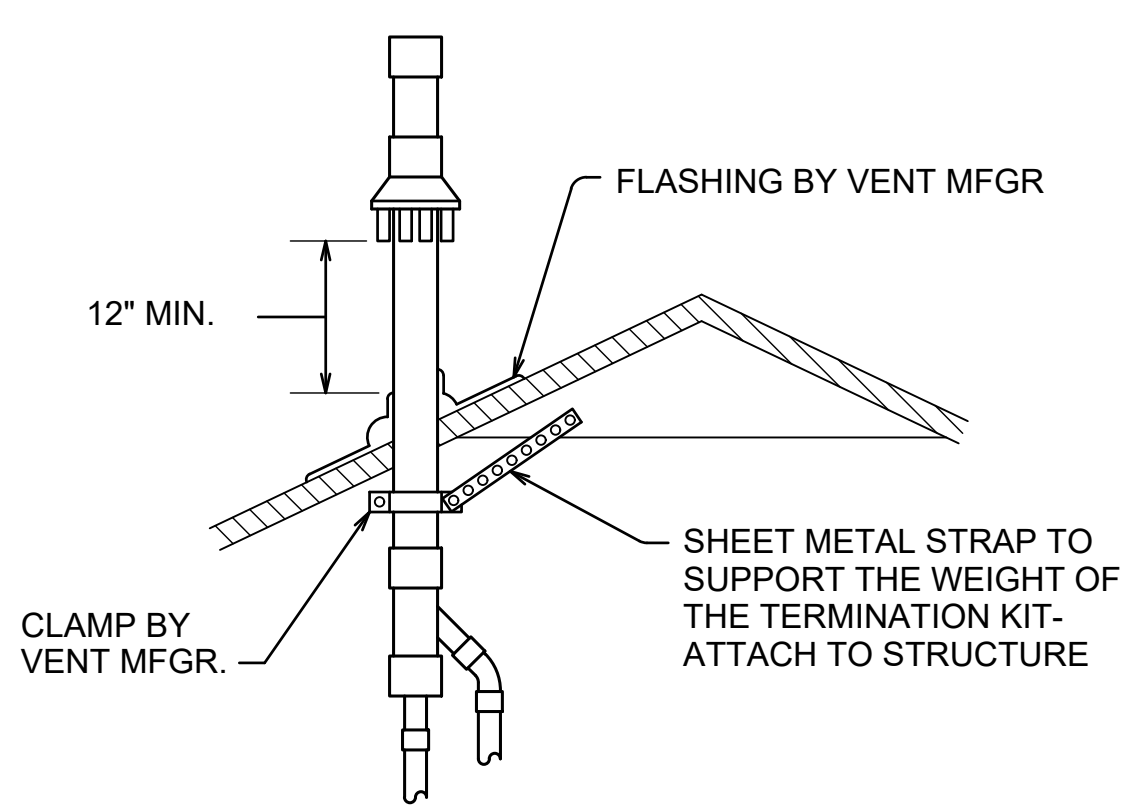
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BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
DETAILS AND PLBG.
RISERS

Sheet No:

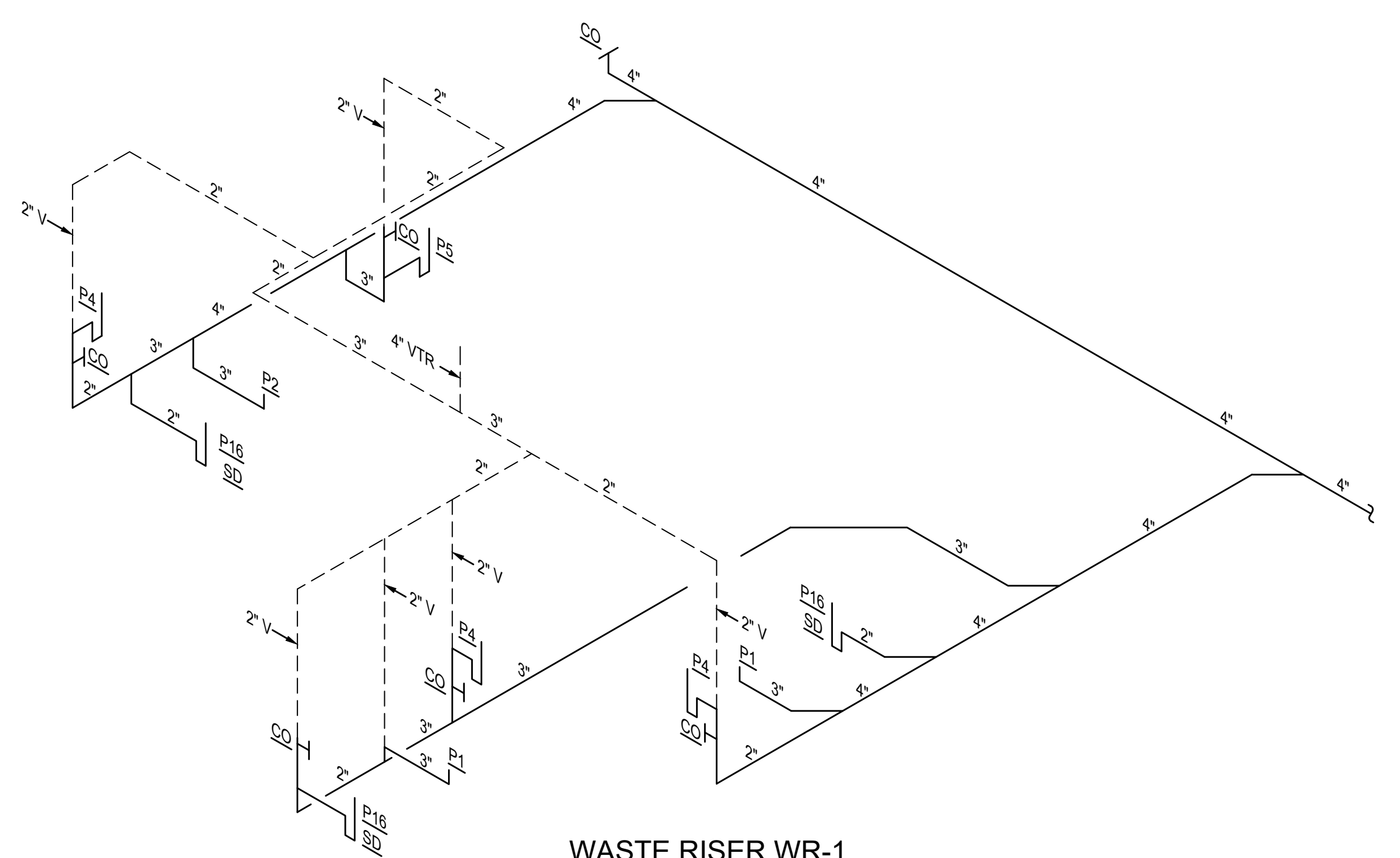
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CONFORMANCE
DOCUMENTS

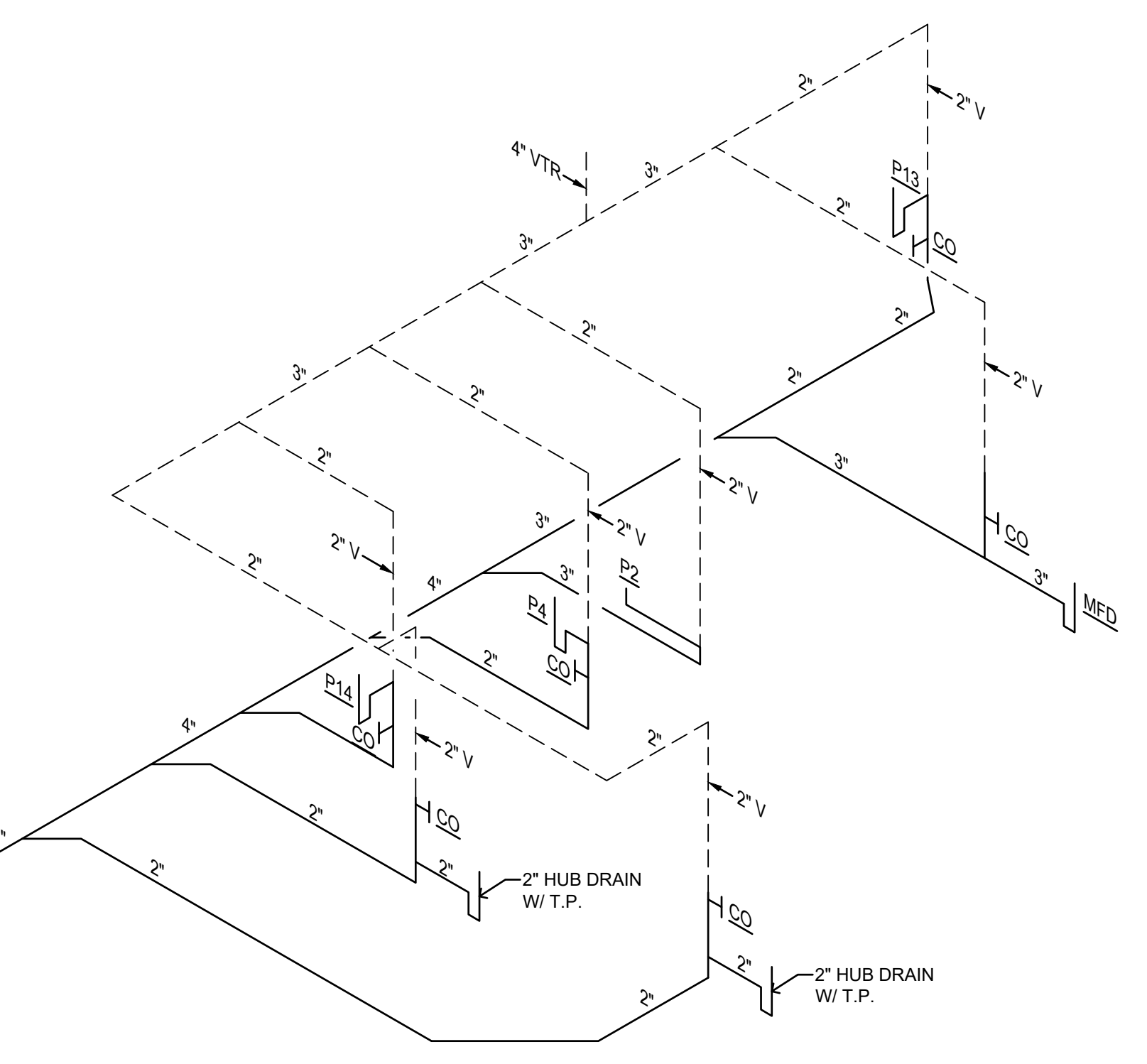


CONDENSING TYPE WATER HEATER VENT DETAIL

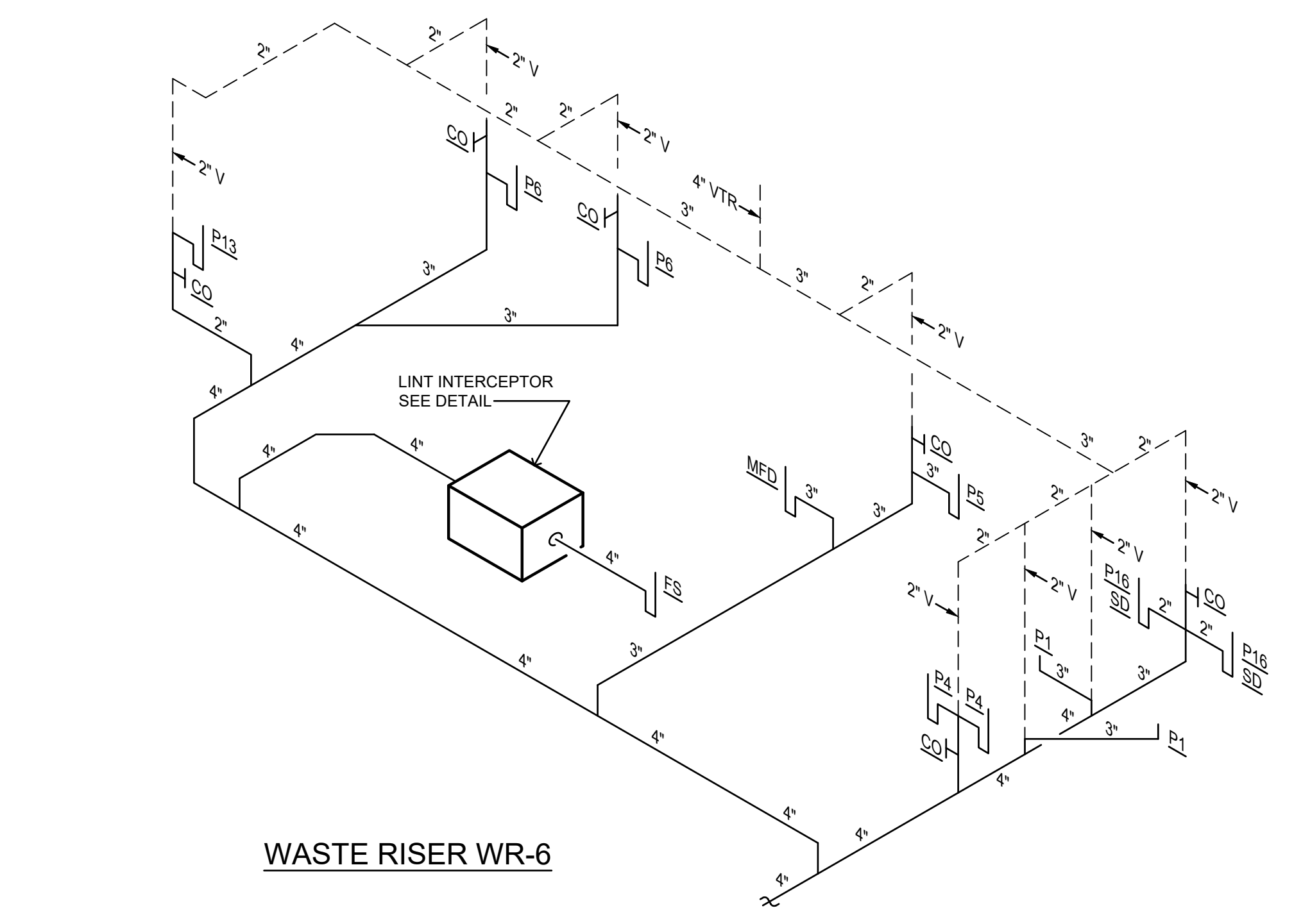
- NO SCALE
- NOTES:
1. THE ENTIRE ASSEMBLY SHALL BE U.L. 1738 LISTED - SEE SPECS.
 2. DETAIL SHOWS INTENT FOR THE INSTALLED ASSEMBLY. CONTRACTOR SHALL OBTAIN THE WATER HEATER AND THE VENT ASSEMBLY MANUFACTURERS' REQUIRED INSTALLATION DIAGRAMS. CONTRACTOR SHALL SUBMIT FOR REVIEW, A SHOP DRAWING APPROVED BY THE WATER HEATER AND THE VENT MANUFACTURER BEFORE INSTALLING THE VENT ASSEMBLY.
 3. PROVIDE ONE ASSEMBLY FOR EACH GAS FIRED PIECE OF EQUIPMENT. DO NOT COMBINE MULTIPLE VENTS INTO A SINGLE VENT.
 4. DETAIL IS FOR A SLOPED ROOF. FLAT ROOF REQUIREMENTS ARE SIMILAR.



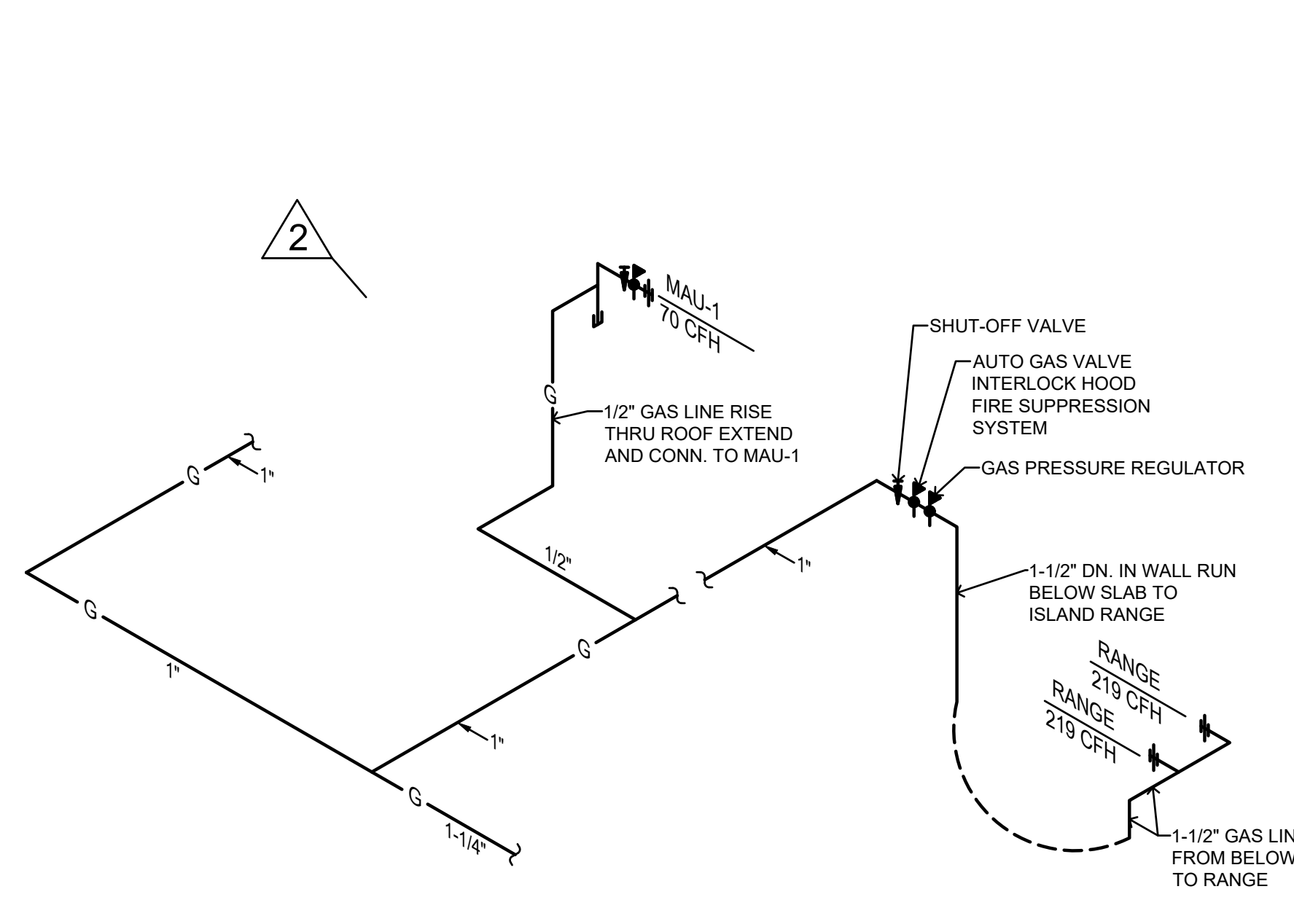
WASTE RISER WR-1



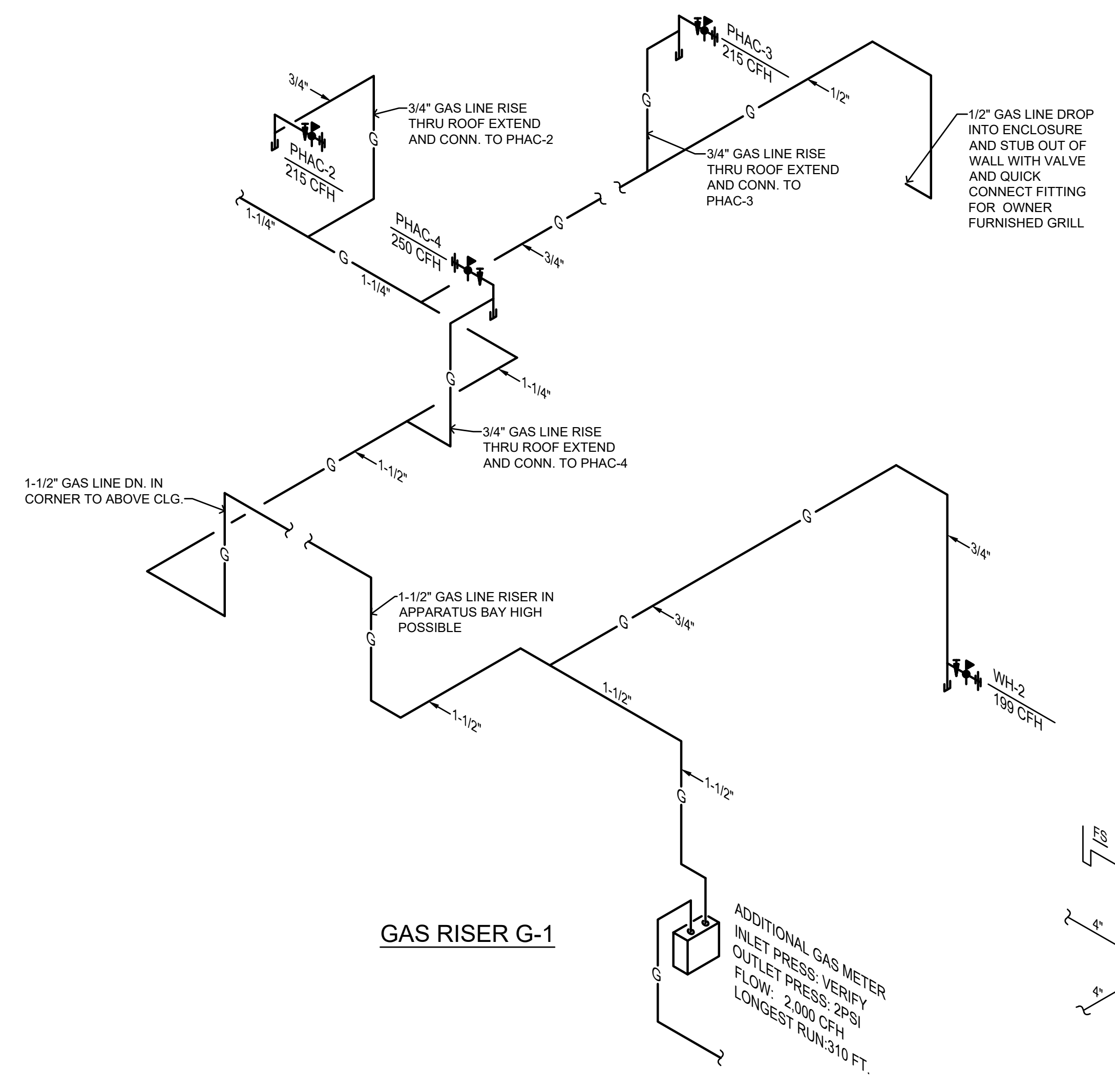
WASTE RISER WR-3



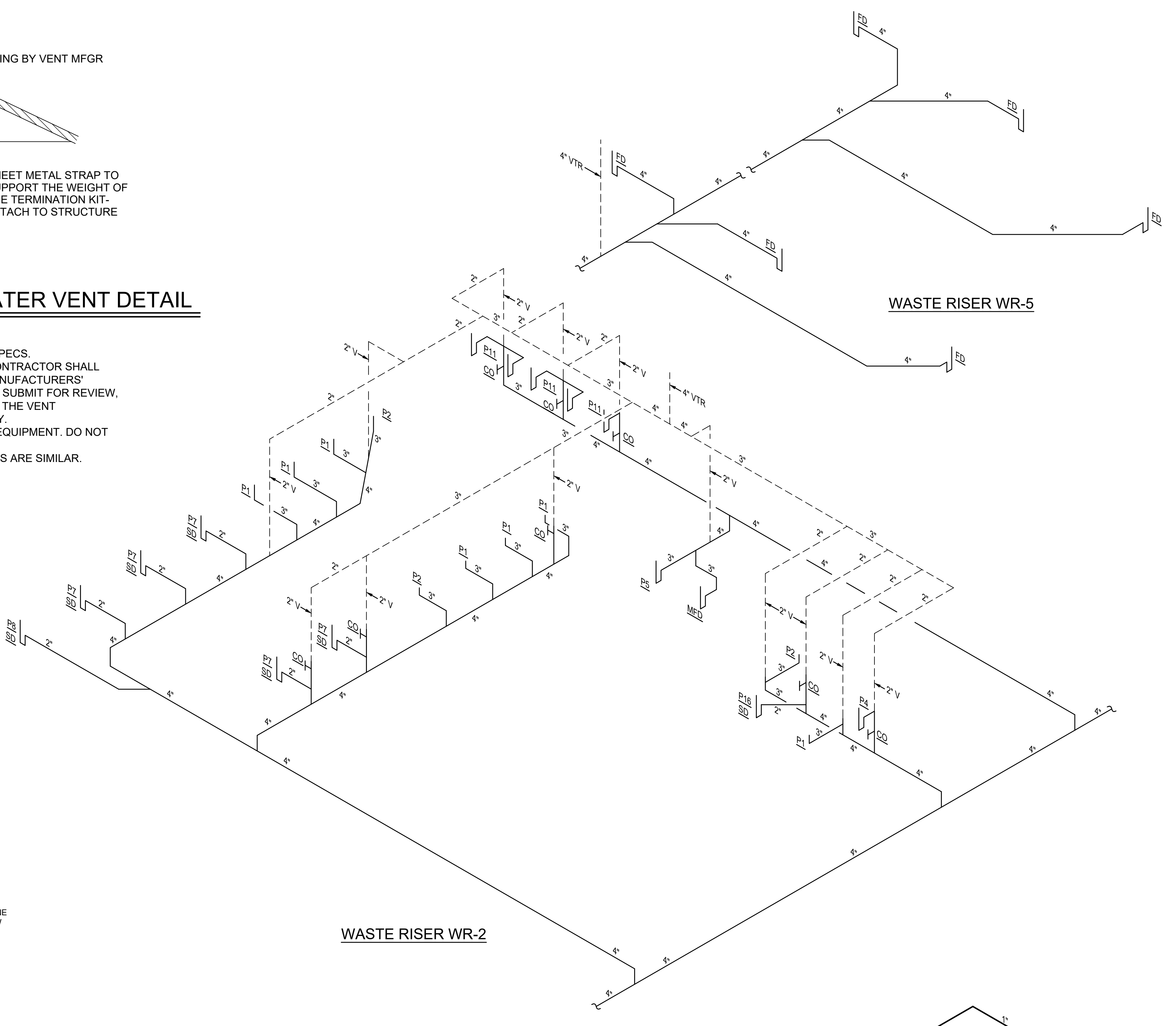
WASTE RISER WR-6



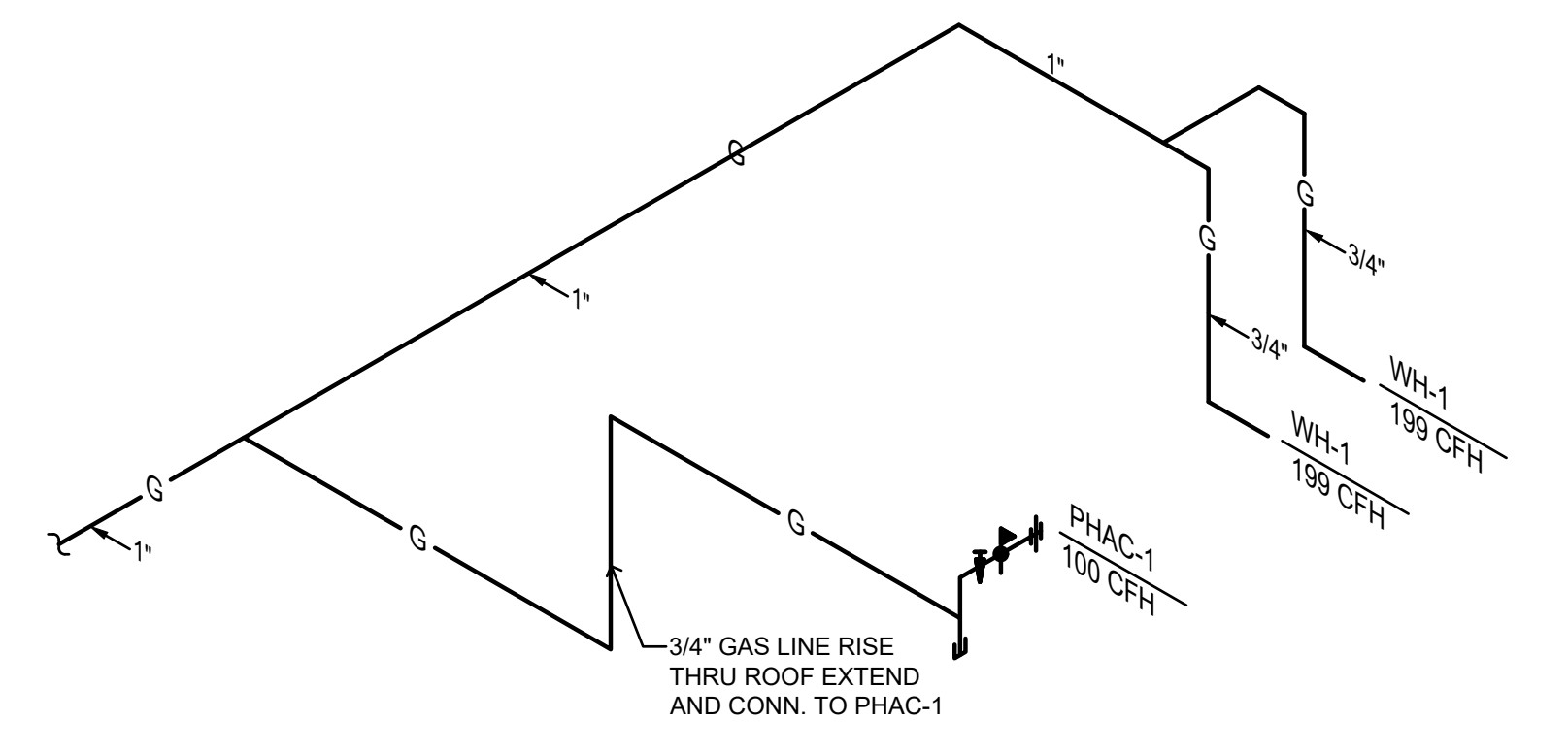
GAS RISER G-2



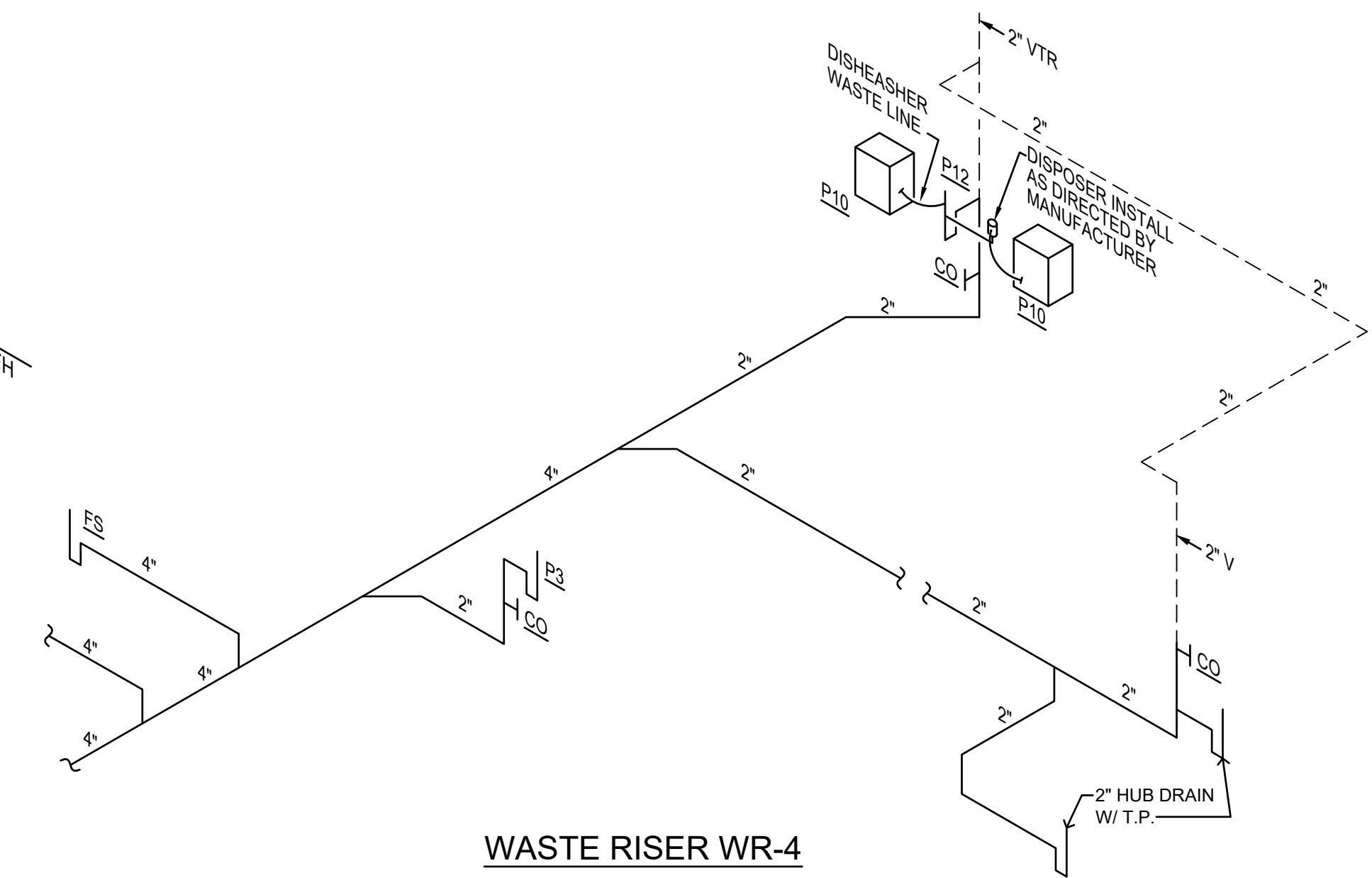
GAS RISER G-1



WASTE RISER WR-2

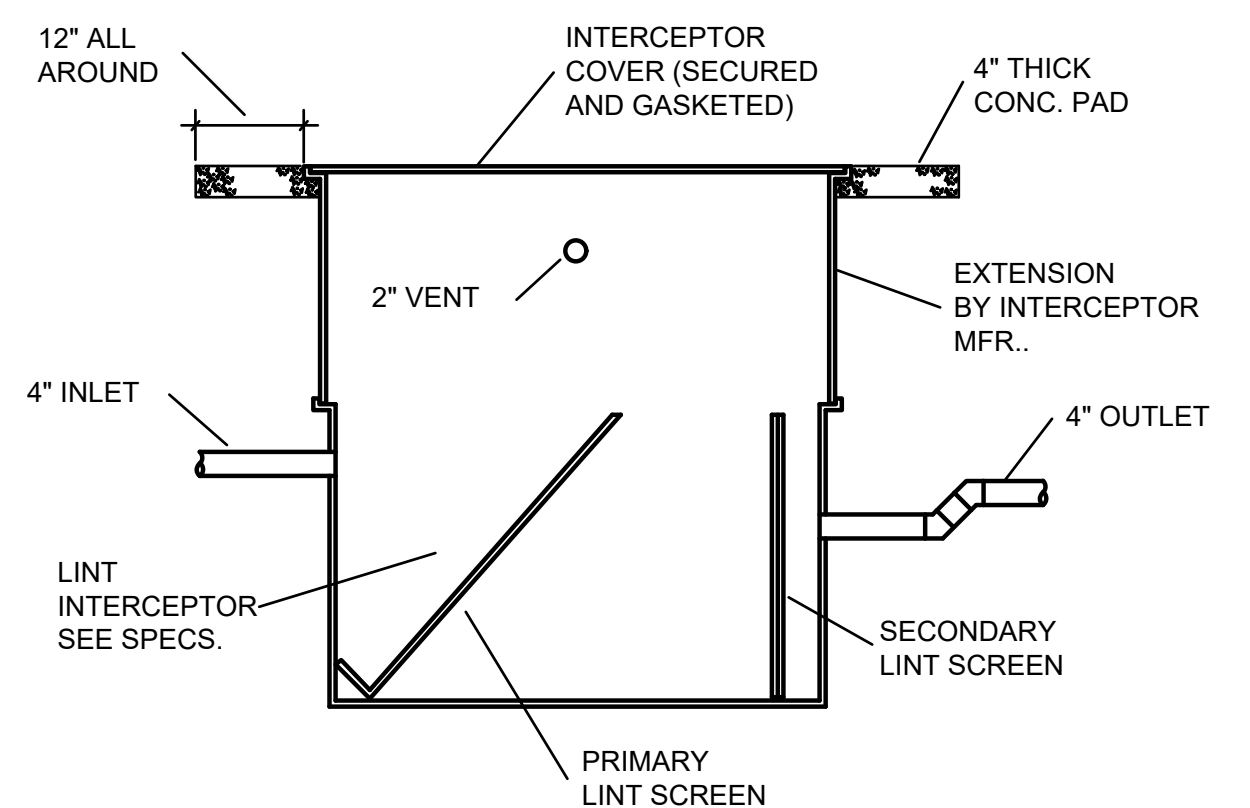
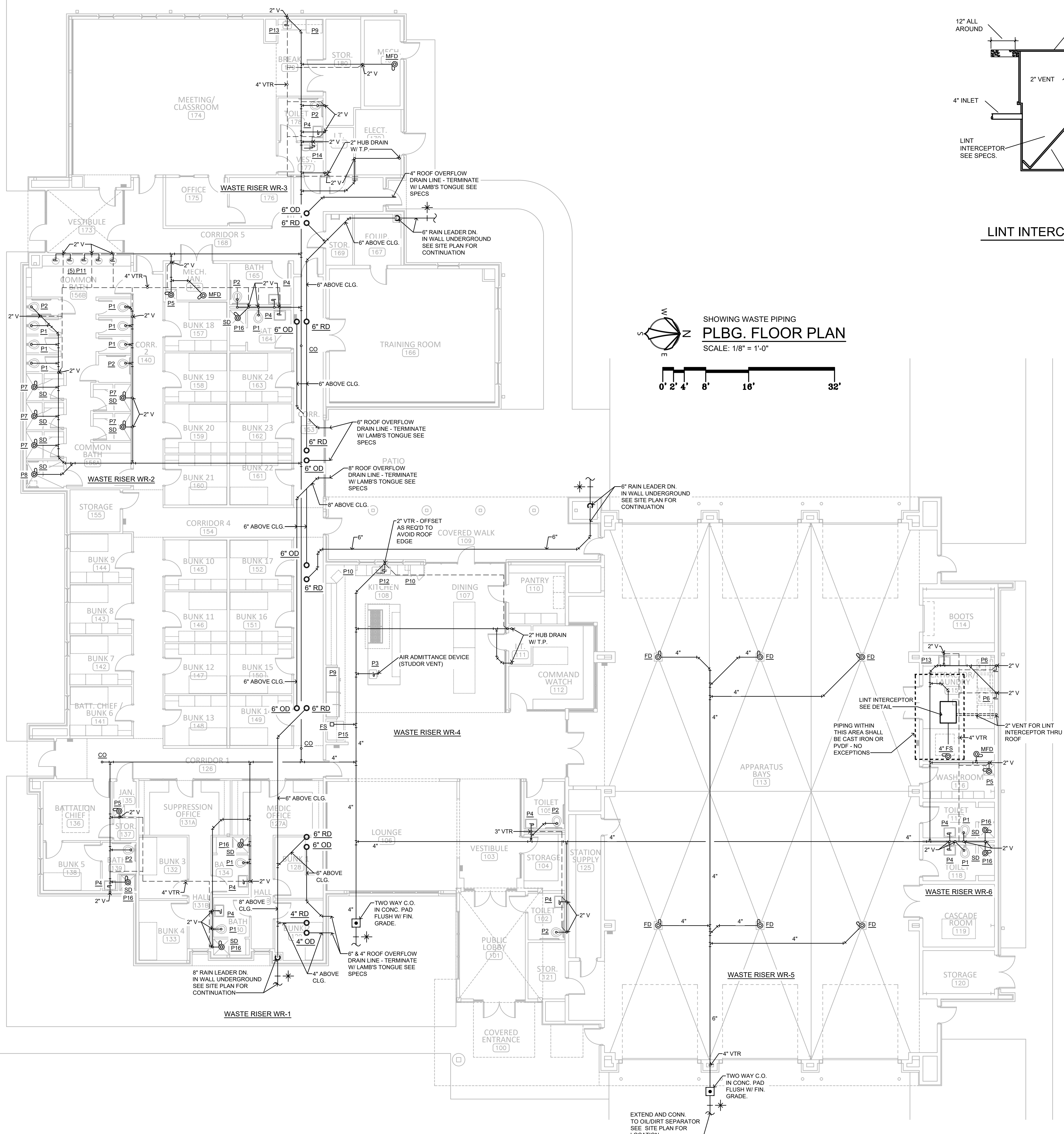


GAS RISER G-3

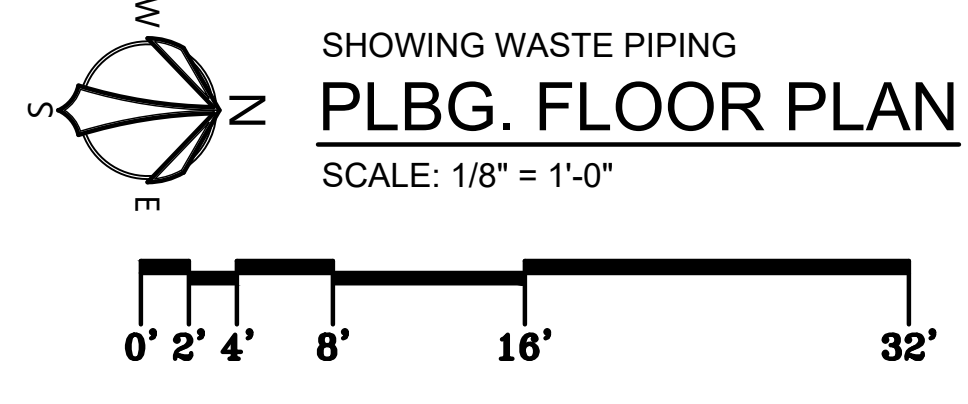


WASTE RISER WR-4





LINT INTERCEPTOR DETAIL



**Barganier
Davis
Williams
Architects
Associated**

bdw

624 South McDonough Street
Montgomery, AL 36104
phone: 334.834.2038
www.bdwarehitects.com



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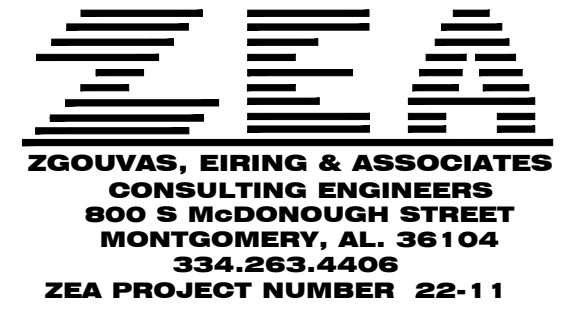
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BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

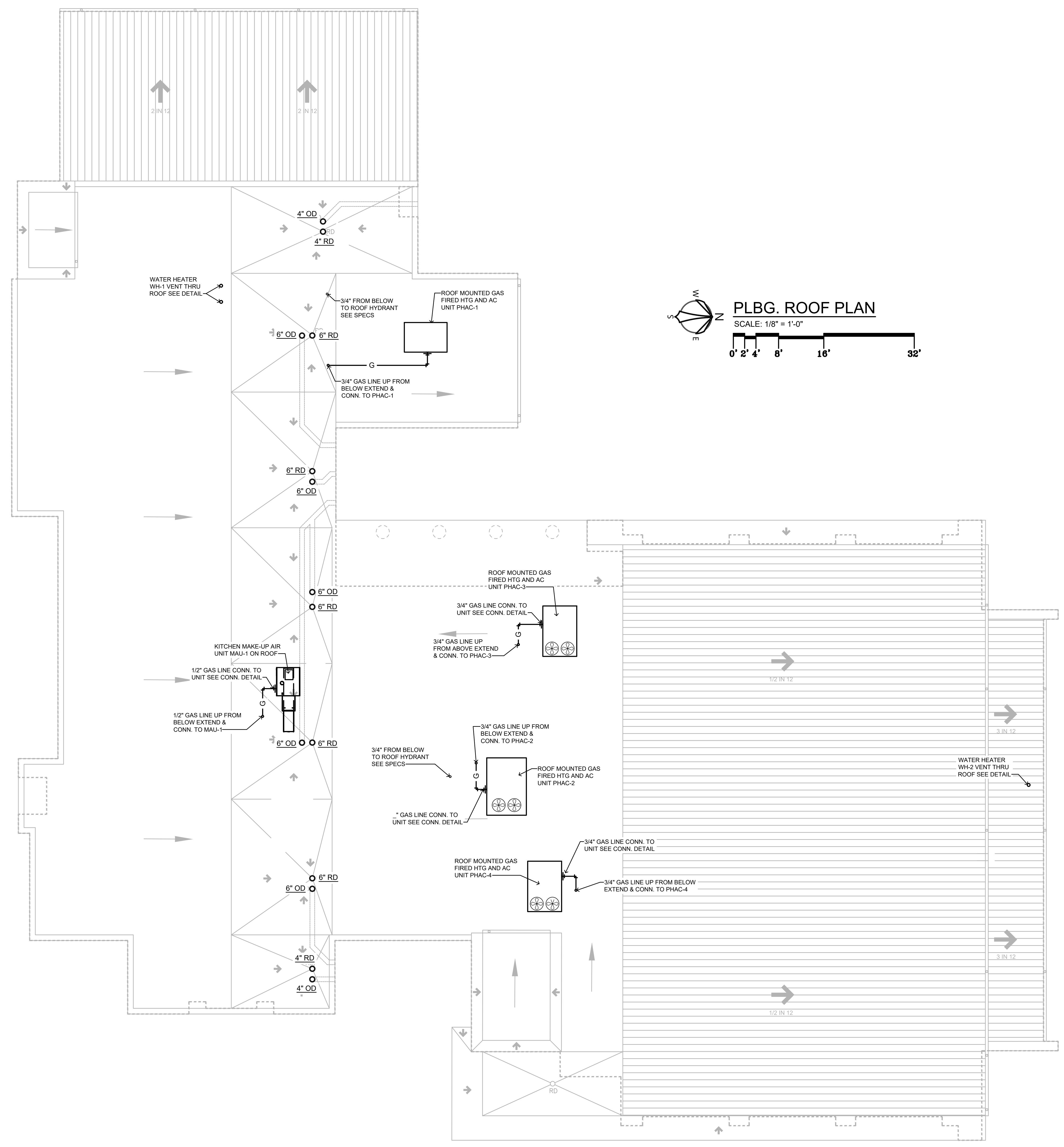
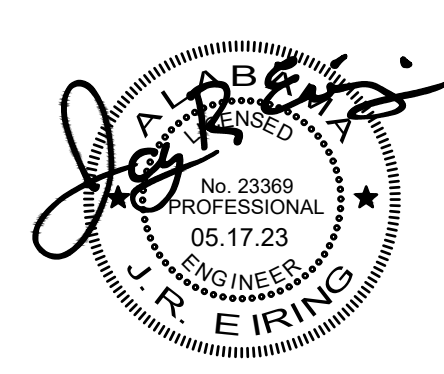
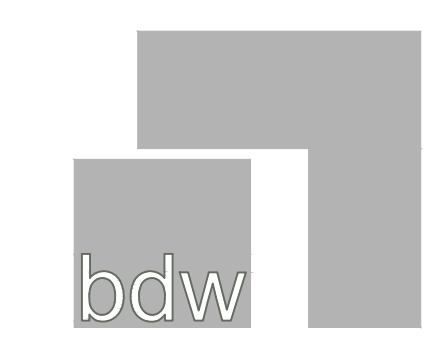
Drawing Title:
PLBG. FLOOR PLAN -
SHOWING WASTE PIPING

Sheet No:

P3

CONFORMANCE
DOCUMENTS





PLBG. ROOF PLAN
SCALE: 1/8" = 1'-0"

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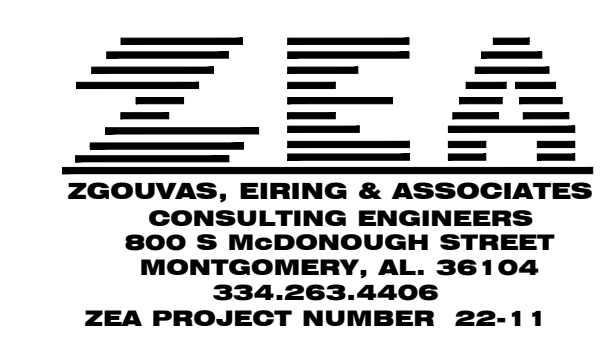
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BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
PLBG. ROOF PLAN

Sheet No:

P5

CONFORMANCE DOCUMENTS





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1	Construction Documents	02-03-2023
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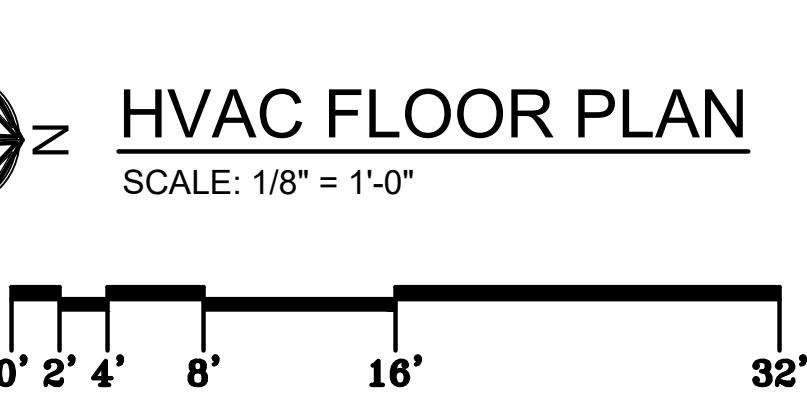
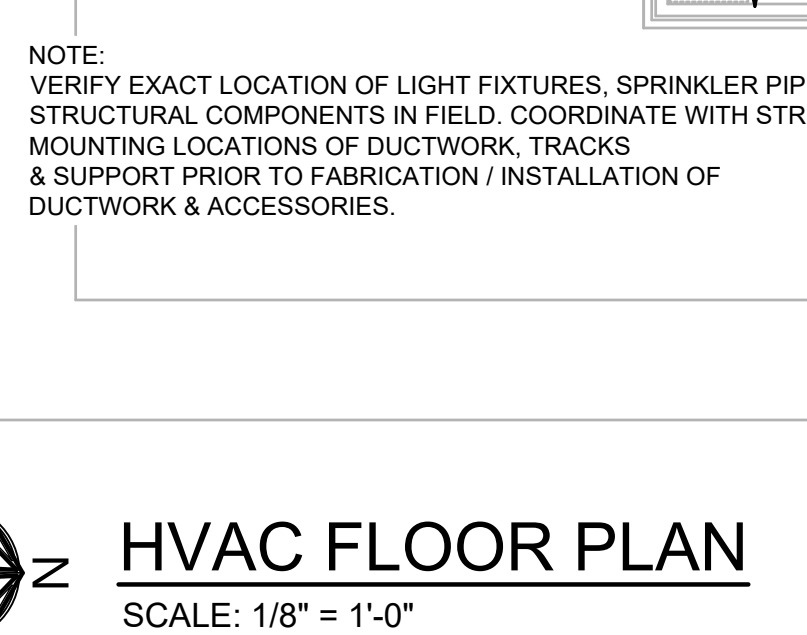
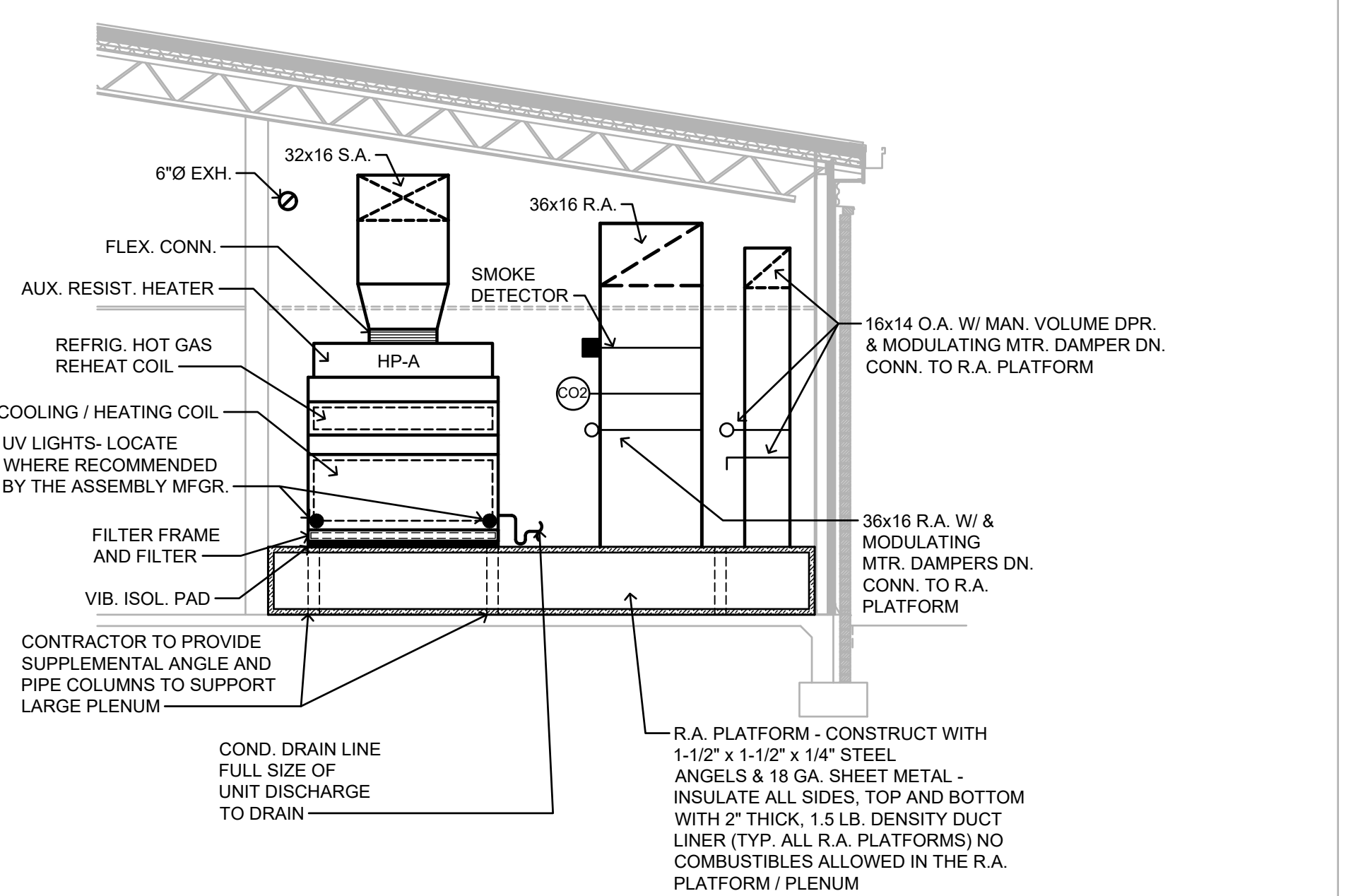
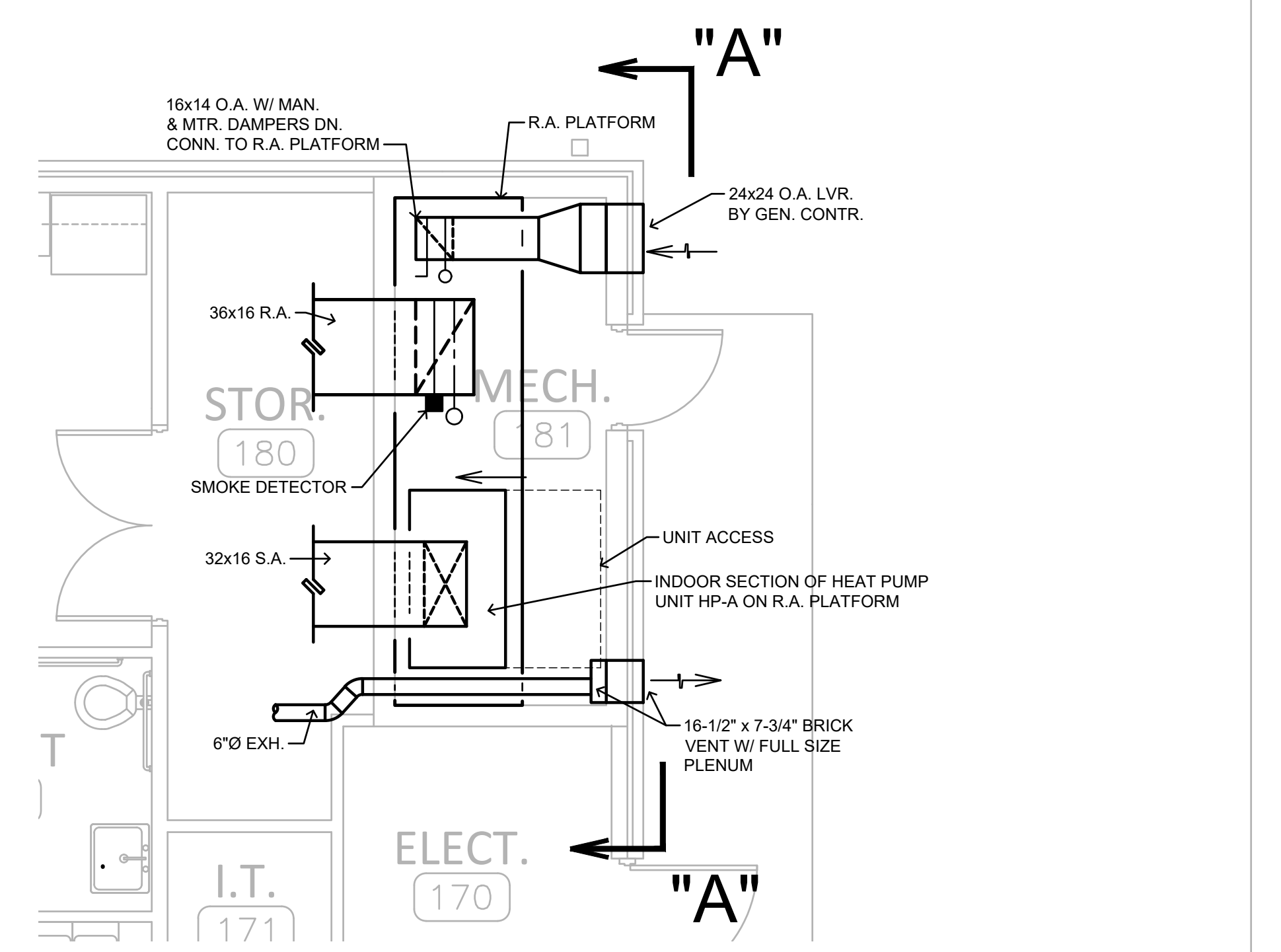
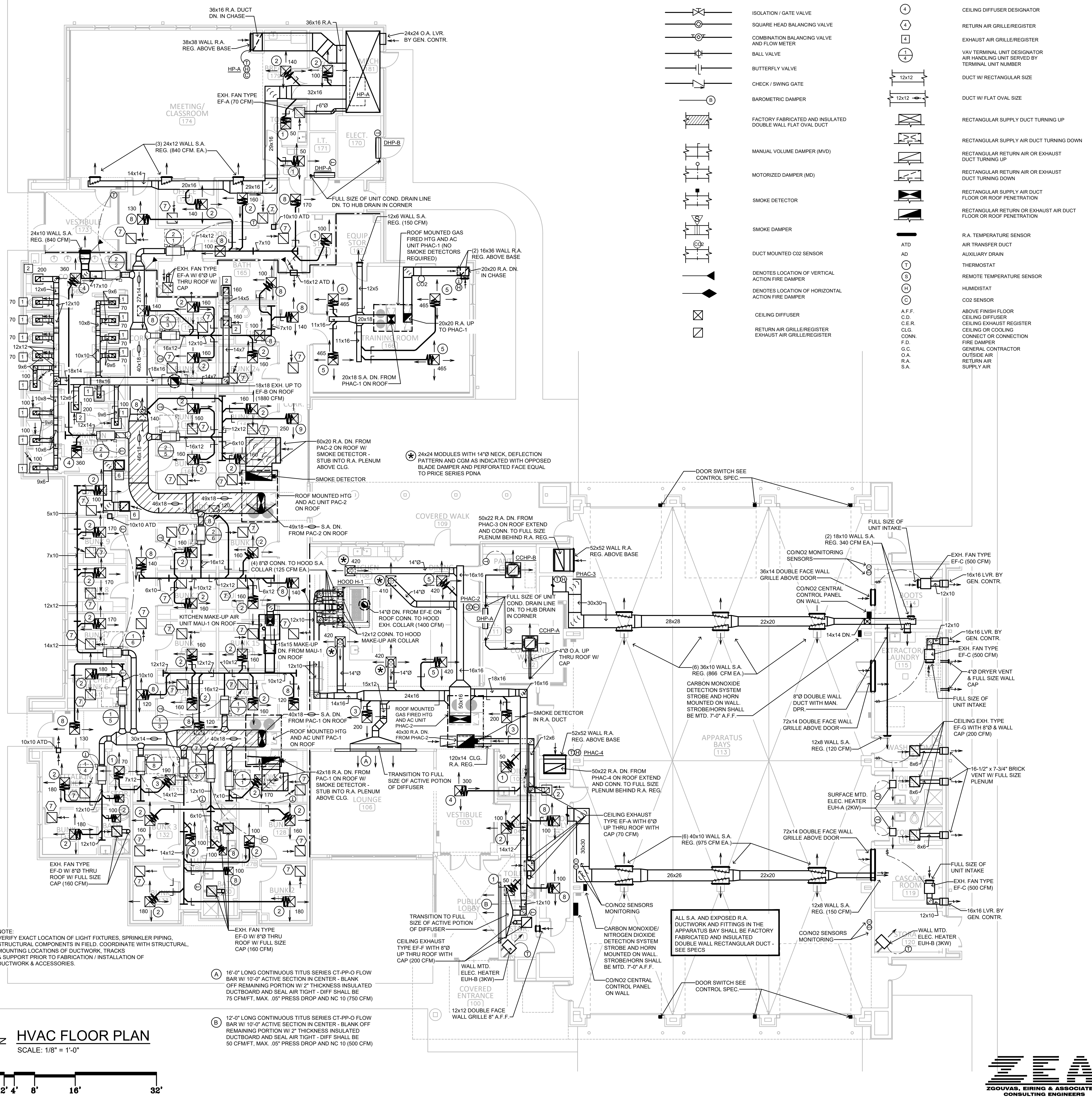
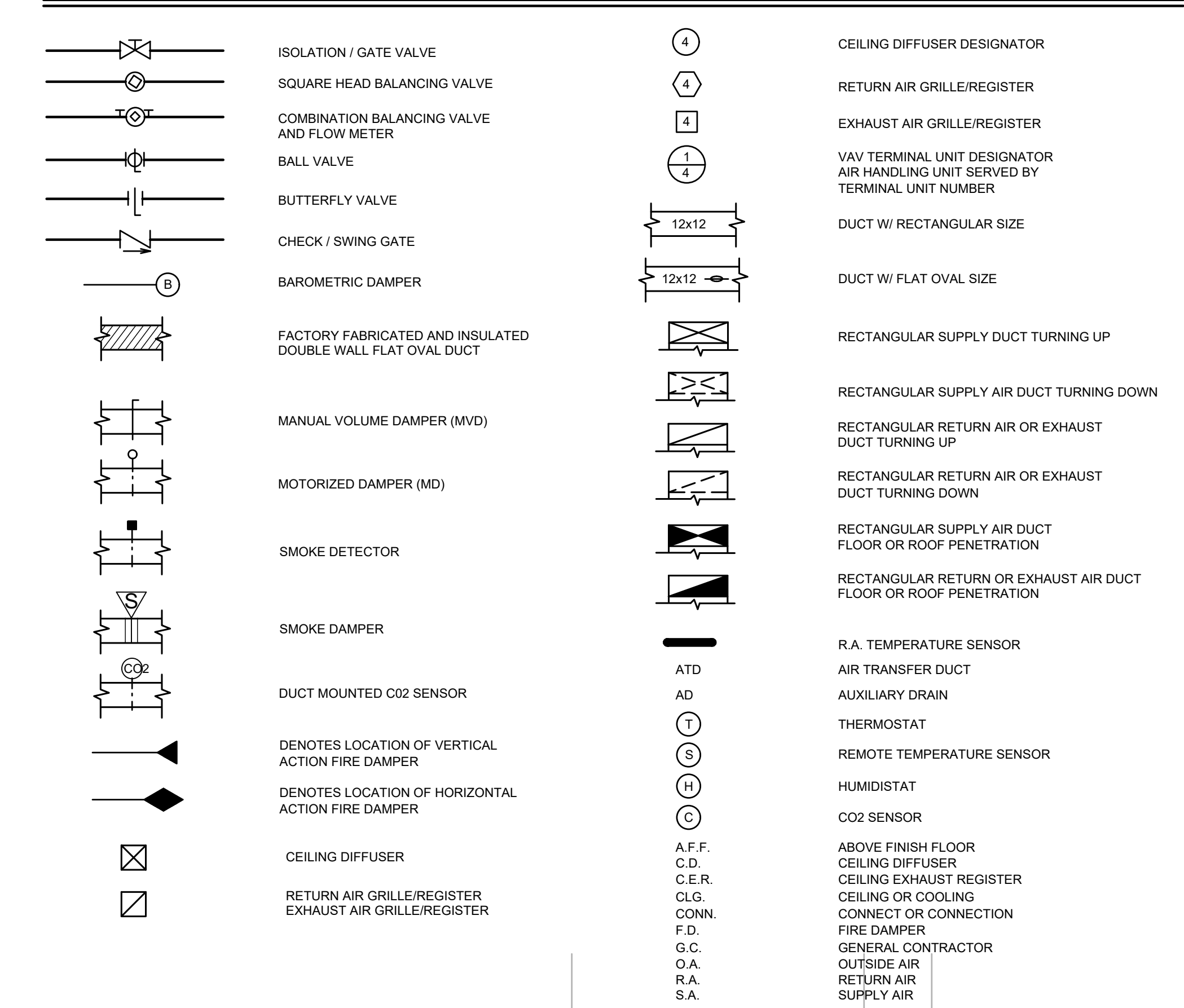
MGM Project No. SP-5-21
BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
HVAC FLOOR PLAN

Sheet No:

M1

LEGEND



- (A) 16'-0" LONG CONTINUOUS TITUS SERIES CT-PP-O FLOW BAR W/ 10'-0" ACTIVE SECTION IN CENTER - BLANK OFF REMAINING PORTION W/ 2" THICKNESS INSULATED DUCTBOARD AND SEAL AIR TIGHT - DIFF SHALL BE 75 CFM/F, MAX. .05" PRESS DROP AND NC 10 (750 CFM)
- (B) 12'-0" LONG CONTINUOUS TITUS SERIES CT-PP-O FLOW BAR W/ 10'-0" ACTIVE SECTION IN CENTER - BLANK OFF REMAINING PORTION W/ 2" THICKNESS INSULATED DUCTBOARD AND SEAL AIR TIGHT - DIFF SHALL BE 50 CFM/F, MAX. .05" PRESS DROP AND NC 10 (500 CFM)



**NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY**
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

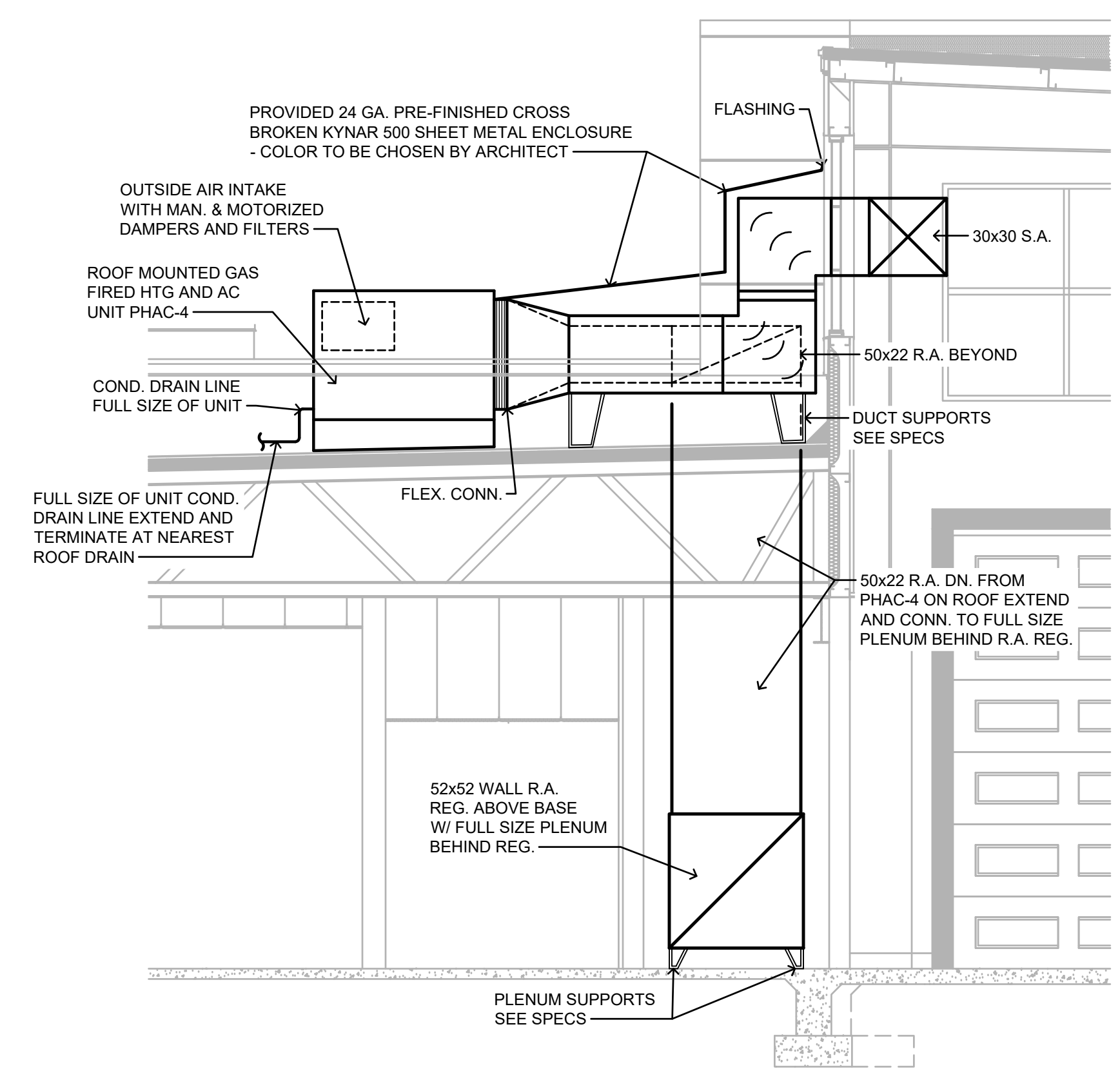
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BDW Project No. 2021-118
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Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
HVAC ROOF PLAN

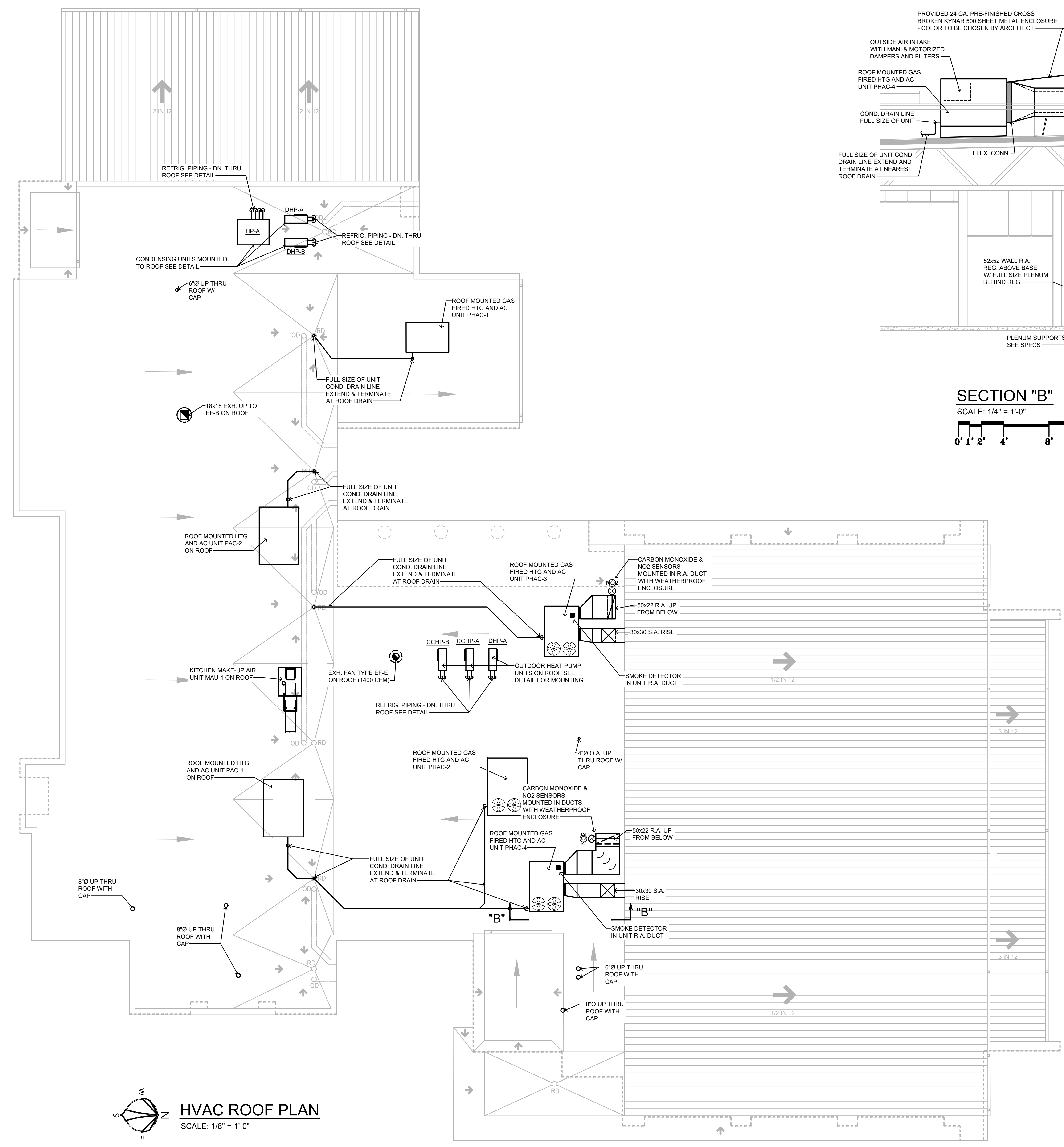
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M2

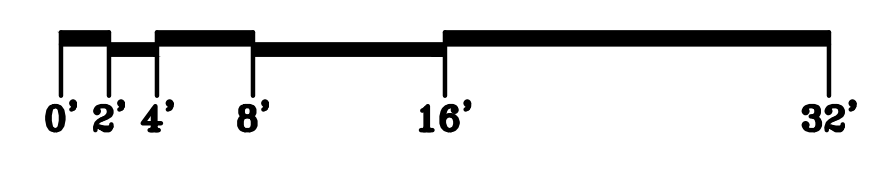
CONFORMANCE DOCUMENTS



SECTION "B"
SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8' 16'



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



PACKAGED ROOFTOP VAV HEATING AND AIR CONDITIONING UNITS (PAC) SCHEDULE (ELECTRIC HEAT)

UNIT TYPE	MINIMUM TOTAL AIR CFM	OUTSIDE AIR CFM			APPROX. EXT. STATIC PRESS. - INCHES OF WATER COL.	FAN MOTOR				MINIMUM COOLING CAPACITY AT A.R.I. CONDITIONS - TOTAL BTU/HR	LOW AMBIENT HEAD PRESSURE CONTROL °F - (COOLING ONLY)	COMPRESSOR MOTOR				CONDENSER SECTION FANS				RESISTANCE HEATER				MIN. EFFICIENCY AT A.R.I. CONDITIONS	APPROX. MCA WITH ELEC. HEAT	APPROX. MOP WITH ELEC. HEAT	
		MINIMUM SETPOINT	MAXIMUM SETPOINT CO2	MAXIMUM SETPOINT (ECONOMIZER)		APPROX. H.P.	VOLTS	PHASE	HZ.			APPROX. F.L.A.	VOLTS	PH.	HZ.	APPROX. F.L.A.	VOLTS	PH.	HZ.	K.W.	CONTROL STEPS	VOLTS	PH.				HZ.
PAC-1	3,200	700	N/A	N/A	1.34	3.1	208	3	60	90,000	45	27.0	208	3	60	4.5	208	1	60	17.0	SCR	208	3	60	11.2 EER	67.0	70.0
PAC-2	5,000	1,200	N/A	N/A	1.28	5.0	208	3	60	150,000	45	45.0	208	3	60	5.5	208	1	60	25.0	SCR	208	3	60	11.0 EER	97.0	100.0

- NOTES:
- ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
 - SEER RATINGS BASED ON ARI 210/240
 - EER RATINGS BASED ON ARI 340/360
 - ELECTRIC HEATERS SHALL BE PROVIDED WITH SCR CONTROL
 - ALL UNITS SHALL HAVE MINIMUM OF 2-COMPRESSORS OR 2-STAGE COMPRESSOR AS REQUIRED BY ASHRAE 90.1

PACKAGED PAD MOUNTED HEATING & A/C UNITS (PHAC) SCHEDULE (NATURAL GAS HEAT)

UNIT TYPE	PHAC-1	PHAC-2	PHAC-3	PHAC-4
MINIMUM TOTAL AIR CFM	2,000	5,000	6,000	6,000
OUTSIDE AIR CFM SETPOINTS - MIN. / MAX. CO2 / MAX. (ECONOMIZER)	100 / 700 / 2,000	900 / N/A / 5,000	500 / N/A / 6,000	500 / N/A / 6,000
APPROXIMATE EXTERNAL STATIC PRESSURE - IN. WATER COLUMN	0.75	1.18	.92	.94
APPROXIMATE INDOOR FAN MOTOR HP - POWER	1.0 HP - 208V., 3 PH., 60HZ.	5.0 HP - 208V., 3PH., 60HZ.	3.0 HP - 208V., 3PH., 60HZ.	3.0 HP - 208V., 3PH., 60HZ.
MINIMUM TOTAL COOLING CAPACITY AT A.R.I. CONDITIONS-BTU/HR	60,000	150,000	180,000	180,000
MINIMUM CAPACITY REDUCTION - PERCENT OF FULL LOAD	100 - 50 - 0	100 - 50 - 0	100 - 50 - 0	100 - 50 - 0
MINIMUM TOTAL HEATING CAPACITY - BTUH INPUT / OUTPUT	100,000 / 80,000	215,000 / 175,000	250,000 / 200,000	250,000 / 200,000
APPROXIMATE COMPRESSOR MOTOR(S) F.L.A. - POWER	17.0 - 208 V., 3 PH., 60HZ.	44.0 - 208 V., 3 PH., 60HZ.	53.0 - 208 V., 3 PH., 60HZ.	53.0 - 208 V., 3 PH., 60HZ.
APPROXIMATE CONDENSER FAN MOTOR(S) F.L.A. - POWER	3.5 - 208 V., 1 PH., 60HZ.	5.5 - 208 V., 1P H., 60HZ.	6.4 - 208 V., 1P H., 60HZ.	6.4 - 208 V., 1P H., 60HZ.
MINIMUM ENERGY EFFICIENCY RATING AT A.R.I. CONDITIONS	13.0 SEER	10.8 EER	10.8 EER	10.8 EER
APPROXIMATE MCA	26.0	64.0	72.0	72.0
APPROXIMATE MOP	40.0	90.0	90.0	90.0

- NOTES:
- ALL UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (208 VOLT, 3 PHASE, 60 HZ.).
 - SEER RATINGS BASED ON ARI 210/240
 - EER RATINGS BASED ON ARI 340/360
 - EACH UNIT SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS
 - HEATER SHALL HAVE MINIMUM 2-1 TURN DOWN AND 80% EFFICIENCY.
 - ALL UNITS SHALL HAVE MINIMUM 2 COMPRESSORS OR 2-STAGE COMPRESSOR AS REQUIRED BY ASHRAE 90.1

WALL MOUNTED DUCTLESS HEAT PUMP UNIT SCHEDULE

UNIT TYPE	DHP-A	DHP-B
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	9,000	12,000
MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 17°F AMBIENT - BTU/HR	6,700	7,600
INDOOR FAN CFM AT HIGH SPEED	230	230
INDOOR UNIT MCA - POWER	1.5A - 208V, 1 PH., 60 HZ.	1.5A - 208V, 1 PH., 60 HZ.
OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	9.0A - 208V, 1 PH., 60 HZ.	9.0A - 208V, 1 PH., 60 HZ.
OUTDOOR UNIT MOP (COMPRESSOR AND COND. FAN) - POWER	15.0A - 208V., - 1PH., 60HZ.	15.0A - 208V., - 1PH., 60HZ.
MINIMUM HSPF AT AHRI 210/240 CONDS.	10.0	10.0
MINIMUM S.E.E.R. AT AHRI 210/240 CONDS	18.0	18.0
BASIS OF DESIGN	MITSUBISHI MSZ / MUZ	MITSUBISHI PKA / PUZ

CEILING CASSETTE TYPE HEAT PUMP UNIT SCHEDULE

UNIT TYPE	CCHP-A	CCHP-B
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	24,000	9,000
MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 17°F AMBIENT - BTU/HR	16,000	8,300
INDOOR FAN CFM AT HIGH SPEED	600	250
OUTSIDE AIR CFM	40	15
INDOOR UNIT MCA - POWER	1.5 - 208V, 1 PH., 60 HZ.	1.0 - 208V, 1 PH., 60 HZ.
OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	18.0A - 208V, 1 PH., 60 HZ.	13.0A - 208V, 1 PH., 60 HZ.
OUTDOOR UNIT MOP	30.0A - 208V., - 1PH., 60HZ.	15.0A - 208V., - 1PH., 60HZ.
MINIMUM HSPF AT AHRI 210/240 CONDS.	8.2	9.6
MINIMUM S.E.E.R. AT AHRI 210/240 CONDS	15.0	15.0

SPLIT SYSTEM HEAT PUMP UNITS SCHEDULE

UNIT NUMBER OR TYPE	HP-A
MINIMUM TOTAL AIR CFM	3,000
MINIMUM OUTSIDE AIR SETPOINT/MAX. CO2 SETPOINT/MAX. O.A. (ECONOMIZER) CFM	100 / 575 / N/A
APPROXIMATE EXTERNAL STATIC PRESSURE - IN. WATER COLUMN	1.10
APPROXIMATE INDOOR FAN MOTOR HP-POWER	3.0 HP - 208V., 3 PH., 60HZ.
MINIMUM TOTAL COOLING CAPACITY AT A.R.I. CONDITIONS-BTU/HR	90,000
MINIMUM HEATING CAPACITY (COMPRESSOR ONLY) AT 70°F	60,000
INDOOR TEMPERATURE AND 22°F OUTDOOR TEMPERATURE-BTU/HR	25.0
MINIMUM AUXILIARY ELECTRIC RESISTANCE HEAT - KW	TWO
NUMBER OF CONTROL STEPS	208 V., 3 PH., 60HZ.
POWER	33.0 - 208 V., 3 PH., 60HZ.
APPROXIMATE COMPRESSOR MOTOR(S) F.L.A. - POWER	3.5 - 208 V., 1 PH., 60HZ.
APPROXIMATE OUTDOOR SECTION FAN MOTOR(S) F.L.A. - POWER	11.0
MINIMUM ENERGY EFFICIENCY RATING AT A.H.R.I. CONDITIONS	3.3
MINIMUM COP	

- NOTES:
- ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
 - 208 VOLT, 3 PHASE POWER IS BEING PROVIDED BY ELECTRICAL TO THE INDOOR HEAT PUMP UNIT SECTION. UNIT MANUFACTURER SHALL PROVIDE FACTORY INSTALLED RELAYS, TRANSFORMERS, ETC., AS REQUIRED TO OPERATE EQUIPMENT AT POWER REQUIREMENTS SPECIFIED ABOVE.
 - EER RATINGS BASED ON AHRI 340/360
 - COP RATING BASED ON AHRI 340/360 AT 47°F DBI/43°F WB
 - UNIT SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS
 - UNIT SHALL HAVE MINIMUM OF 2 COMPRESSORS OR 2-STAGE COMPRESSOR AS REQUIRED BY ASHRAE 90.1

VARIABLE AIR VOLUME TERMINAL UNITS SCHEDULE (ELECTRIC HEAT)

TERMINAL NUMBER	COOLING CFM		MIN. INLET DUCT SIZE - INCHES ROUND	MAXIMUM PRESSURE DROP WITH OPEN DAMPER- INCHES OF WATER COLUMN	APPROXIMATE EXTERNAL STATIC PRESSURE - INCHES OF WATER COLUMN	HEATING COIL CHARACTERISTICS				MAX. NC RATING AT 2.0" STATIC PRESS.	BASIS OF DESIGN				
	MAX.	MIN. SET POINT				HEATING CFM	ENTERING AIR TEMP. °F	LEAVING AIR TEMP. °F	MINIMUM HEATING CAPACITY- KW			VOLTS	PH.	HZ.	
1	170	100	5	.20	0.30	140	65	98.8	1.5	208	3	60	SCR	32	TRANE SERIES VCEF
2	420	120	6	.20	0.41	300	65	96.6	3.0	208	3	60	SCR	32	TRANE SERIES VCEF
3	660	300	10	.20	0.42	530	65	100.8	6.0	208	3	60	SCR	32	TRANE SERIES VCEF
4	570	180	10	.20	0.35	450	65	100.1	5.0	208	3	60	SCR	32	TRANE SERIES VCEF
5	310	150	6	.20	0.35	310	65	95.6	3.0	208	3	60	SCR	32	TRANE SERIES VCEF
6	610	200	10	.20	0.44	500	65	102.9	6.0	208	3	60	SCR	32	TRANE SERIES VCEF
7	980	300	12	.20	0.43	700	65	96.6	7.0	208	3	60	SCR	32	TRANE SERIES VCEF
8	260	100	5	.20	0.35	190	65	98.2	2.0	208	3	60	SCR	32	TRANE SERIES VCEF
9															
10															
11	660	130	8	.20	0.44	500	65	102.3	6.0	208	3	60	SCR	32	TRANE SERIES VCEF
12	840	200	10	.20	0.30	500	65	96.6	5.0	208	3	60	SCR	32	TRANE SERIES VCEF
13	960	200	10	.20	0.42	600	65	96.6	6.0	208	3	60	SCR	32	TRANE SERIES VCEF
14	720	720	12	.20	0.43	720	65	100.1	8.0	208	3	60	SCR	32	TRANE SERIES VCEF
15	1,030	250	12	.20	0.40	700	65	96.6	7.0	208	3	60	SCR	32	TRANE SERIES VCEF
16	1,040	250	12	.20	0.40	700	65	96.6	7.0	208	3	60	SCR	32	TRANE SERIES VCEF

CEILING DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	BRANCH DUCT SIZE	MAXIMUM NC VALUE	BASIS OF DESIGN
1	10 - 95	6" ROUND	24x24	6"Ø	20	TITUS TMS
2	100 - 180	8" ROUND	24x24	8"Ø	20	TITUS TMS
3	185 - 270	10" ROUND	24x24	10"Ø	20	TITUS TMS
4	275 - 400	12" ROUND	24x24	12"Ø	20	TITUS TMS
5	405 - 530	14" ROUND	24x24	14"Ø	20	TITUS TMS
6	535 - 625	15" ROUND	24x24	15"Ø	20	TITUS TMS
7	10 - 95	6x6	6x6	6x6	20	TITUS TDC
8	95 - 200	9x9	9x9	10x7	20	TITUS TDC
9	205 - 350	12x12	12x12	13x9	20	TITUS TDC

- NOTES:
- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS
 - CONTRACTOR SHALL INSULATE THE EXTERIOR (BACK SIDE OF DIFFUSER PANEL) WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

EXHAUST/RETURN AIR REGISTER SCHEDULE

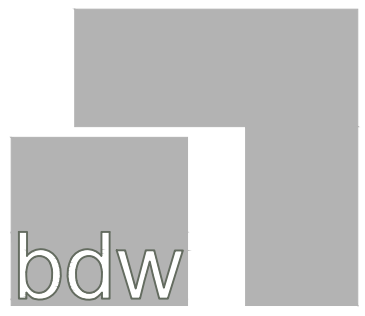
SYMBOL	CFM RANGE	SIZE - IN. X IN.	DESCRIPTION	MAXIMUM NC RATING	BRANCH DUCT SIZE
1	0 - 140	9x9	CEILING EXH. OR RETURN REG.	20	9x6
2	141 - 240	12x12	CEILING EXH. OR RETURN REG.	20	12x7
3	241 - 340	14x14	CEILING EXH. OR RETURN REG.	20	14x7
4	341 - 460	16x16	CEILING EXH. OR RETURN REG.	20	16x9
5	461 - 600	18x18	CEILING EXH. OR RETURN REG.	20	18x10
6	601 - 760	20x20	CEILING EXH. OR RETURN REG.	20	20x12
7	761 - 940	24x24	CEILING EXH. OR RETURN REG.	20	24x12
8	941 - 1200	30x24	CEILING EXH. OR RETURN REG.	20	24x14
9	1201 - 1400	36x24	CEILING EXH. OR RETURN REG.	20	28x14

- NOTES:
- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
 - 8, 9 & 9 shall be in INTEGRAL 48x24 METAL CEILING PANEL AS SPECIFIED. ALL OTHERS SHALL BE IN INTEGRAL 24x24 METAL CEILING PANEL AS SPECIFIED.

ELECTRIC UNIT HEATER SCHEDULE

HEATER TYPE	DESCRIPTION	AIR QUANTITY- CFM	MINIMUM CAPACITY- KW	FAN HP	FAN MAX. RPM	POWER			NUMBER OF CONTROL STEPS	REMARKS
						VOLTS	PHASE	HERTZ		
EUH-A	RECESSED CLG. MOUNTED	100	2.0	1/25	1550	208	1	60	ONE	
EUH-B	WALL MTD., HORIZ. DISCHARGE, PROP	400	3.3	1/25	1550	208	3	60	ONE	

NOTE: UNIT TO BE PROVIDED WITH FACTORY INSTALLED SINGLE POINT POWER CONNECTION (FAN AND HEATER)



NEW FIRE STATION NO. 10
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Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
HVAC SCHEDULES

Sheet No:

M3

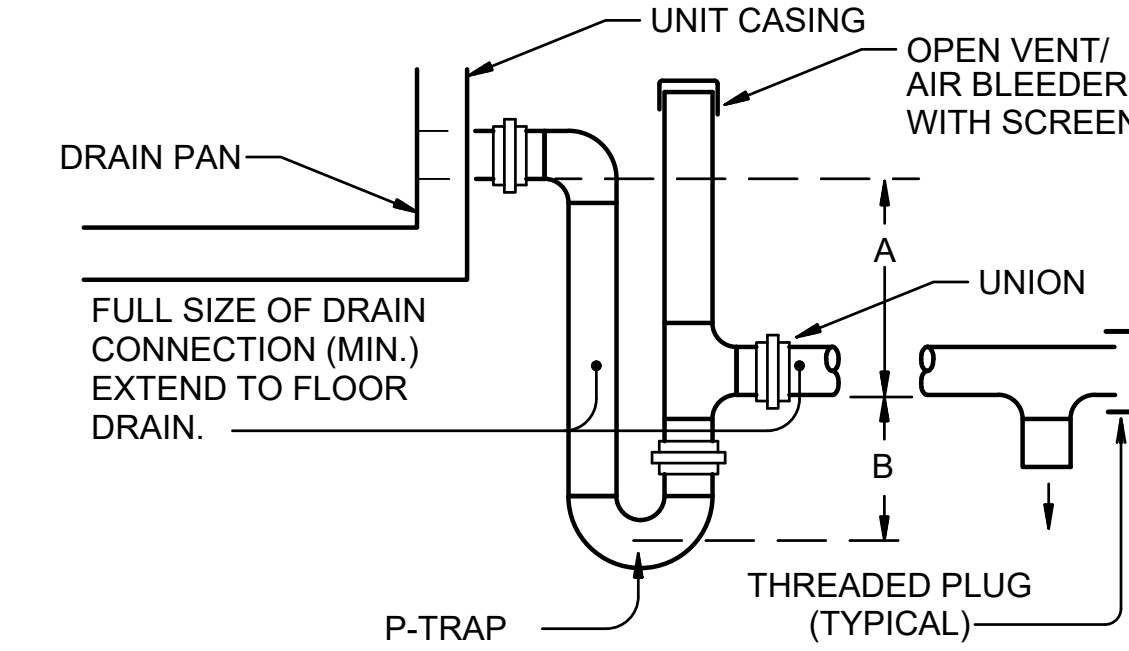


FANS SCHEDULE

FAN TYPE	FAN CFM	DESCRIPTION	MINIMUM FAN SIZE INCHES	APPROX. FAN WALL/ ROOF OPENING -INCHES	MAXIMUM FAN SPEED RPM	APPROX. EXT. STATIC PRESS. IN. WTR. COL.	FAN MOTOR			CONTROL INTERLOCK	REMARKS	
							MIN. H.P./ WATTS	VOLTS	PH. HERTZ			
EF-A	70	CEILING MTD., DIRECT DRIVE, CENTRIFUGAL, ECM	8.0	N/A	1,050	0.38	100 W	120	1	60	LIGHTING CIRCUIT	
EF-B	1,880	ROOF MOUNTED, BELT DRIVEN, CENTRIFUGAL	16.5	20x20	1,053	0.82	3/4 HP	120	1	60	PAC-2	
EF-C	500	IN-LINE, DIRECT DRIVE, CENTRIFUGAL, ECM	10.0	N/A	1,050	.30	273 w	120	1	60	WALL SWITCH	
EF-D	160	CEILING MTD., DIRECT DRIVE, CENTRIFUGAL, ECM	8.0	N/A	1,050	0.30	100 W	120	1	60	LIGHTING CIRCUIT	
EF-E	1,400	ROOF MOUNTED, BELT DRIVEN, CENTRIF., UP-BLAST	16.0	20x20	1,248	1.00	3/4 HP	120	1	60	HOOD SWITCH	
EF-F	200	CEILING MTD., DIRECT DRIVE, CENTRIFUGAL, ECM	8.0	N/A	1,050	0.30	100 W	120	1	60	T'STAT	
EF-G	200	CEILING MTD., DIRECT DRIVE, CENTRIFUGAL, ECM	8.0	N/A	1,050	0.30	100 W	120	1	60	LIGHTING CIRCUIT	

PACKAGED MAKE-UP AIR UNIT SCHEDULE (NATURAL GAS HEAT)

UNIT NUMBER	FAN				FAN DRIVE	FAN MOTOR				MINIMUM HEATING CAPACITY (INPUT / OUTPUT) BTU/HR	REMARKS
	TOTAL AIR CFM	MINIMUM OUTSIDE AIR-CFM	MAXIMUM OUTSIDE AIR-CFM	APPROXIMATE EXTERNAL STATIC PRESS. IN. OF WATER		H.P.	VOLTS	PHASE	HERTZ		
MAU-1	1,120	600	1,120	0.75	DIRECT	1.0	208	3	60	70,000 / 56,000	



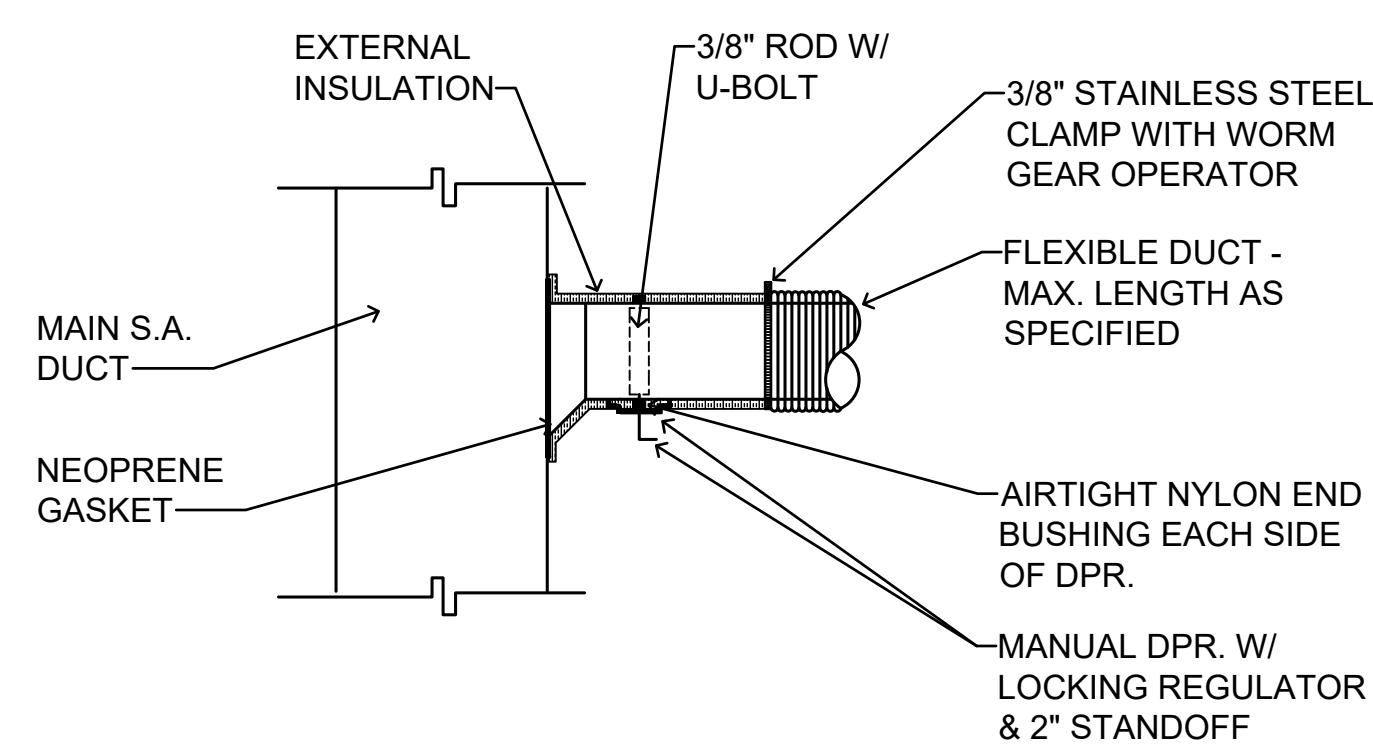
UNIT TYPE	A	B
DRAW-THRU	2" PLUS "X"	"X" PLUS 1"
BLOW-THRU	1" MINIMUM	2X PLUS 1"

WHERE "X" = AHU STATIC PRESSURE

TYPICAL AIR HANDLING UNIT CONDENSATE DRAIN DETAIL

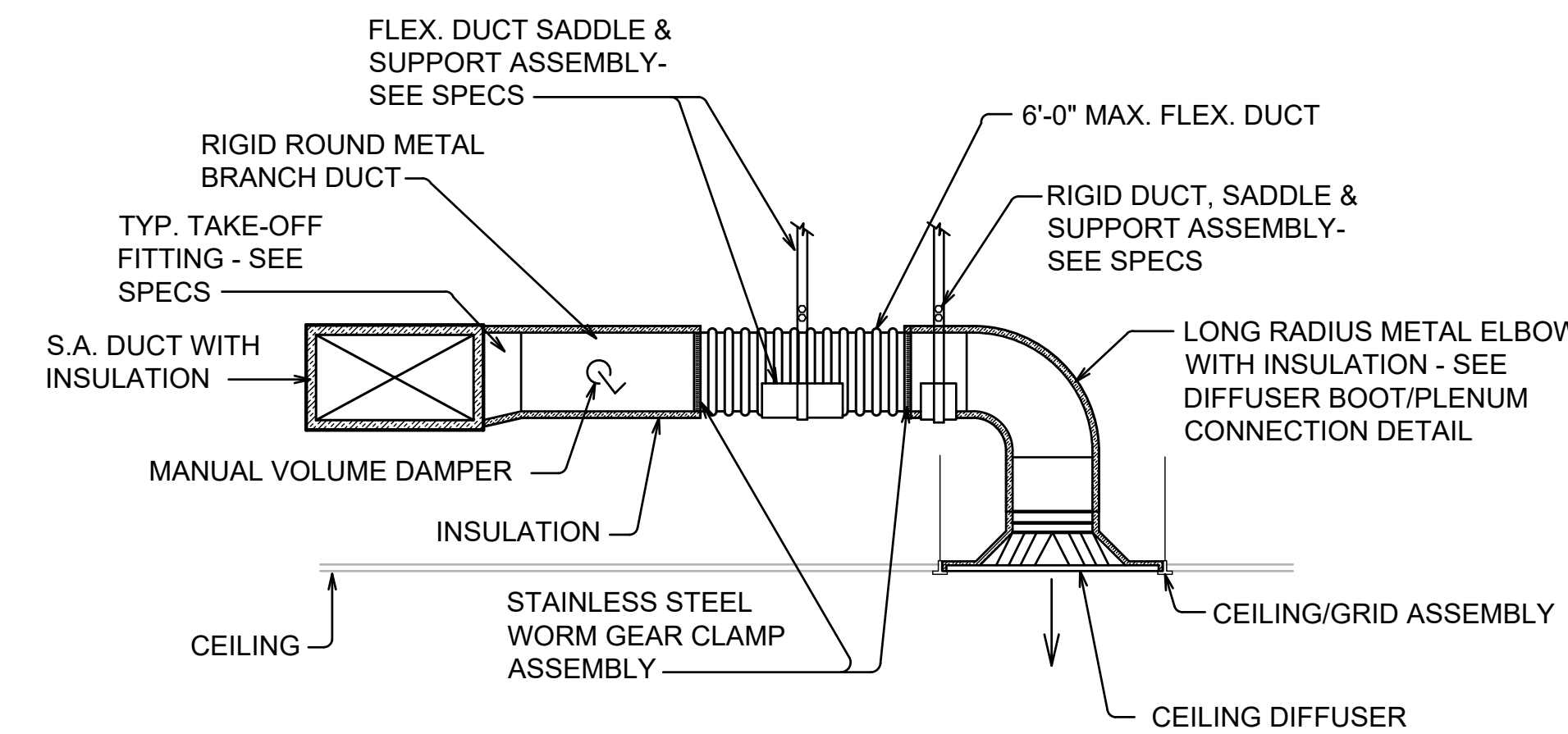
NOT TO SCALE
NOTES:

- CONTRACTOR SHALL PROVIDE DRAIN AS REQUIRED BY THE AIR HANDLING UNIT MANUFACTURER. IN ABSENCE OF THOSE REQUIREMENTS, CONTRACTOR SHALL PROVIDE DRAIN AS DETAILED ABOVE
- CONTRACTOR SHALL RAISE AIR HANDLING UNIT AS REQUIRED TO ALLOW FOR INSTALLATION OF THE DRAIN AS DETAILED ABOVE
- PROVIDE AN ELECTRIC SWITCH IN THE CONDENSATE DRAIN LINE, THAT CONFORMS TO UL 508, TO SHUT DOWN THE UNIT AND ALARM TO THE BUILDING ENERGY MANAGEMENT SYSTEM OPERATOR CONSOLE SHOULD THE LINE BECOME OBSTRUCTED



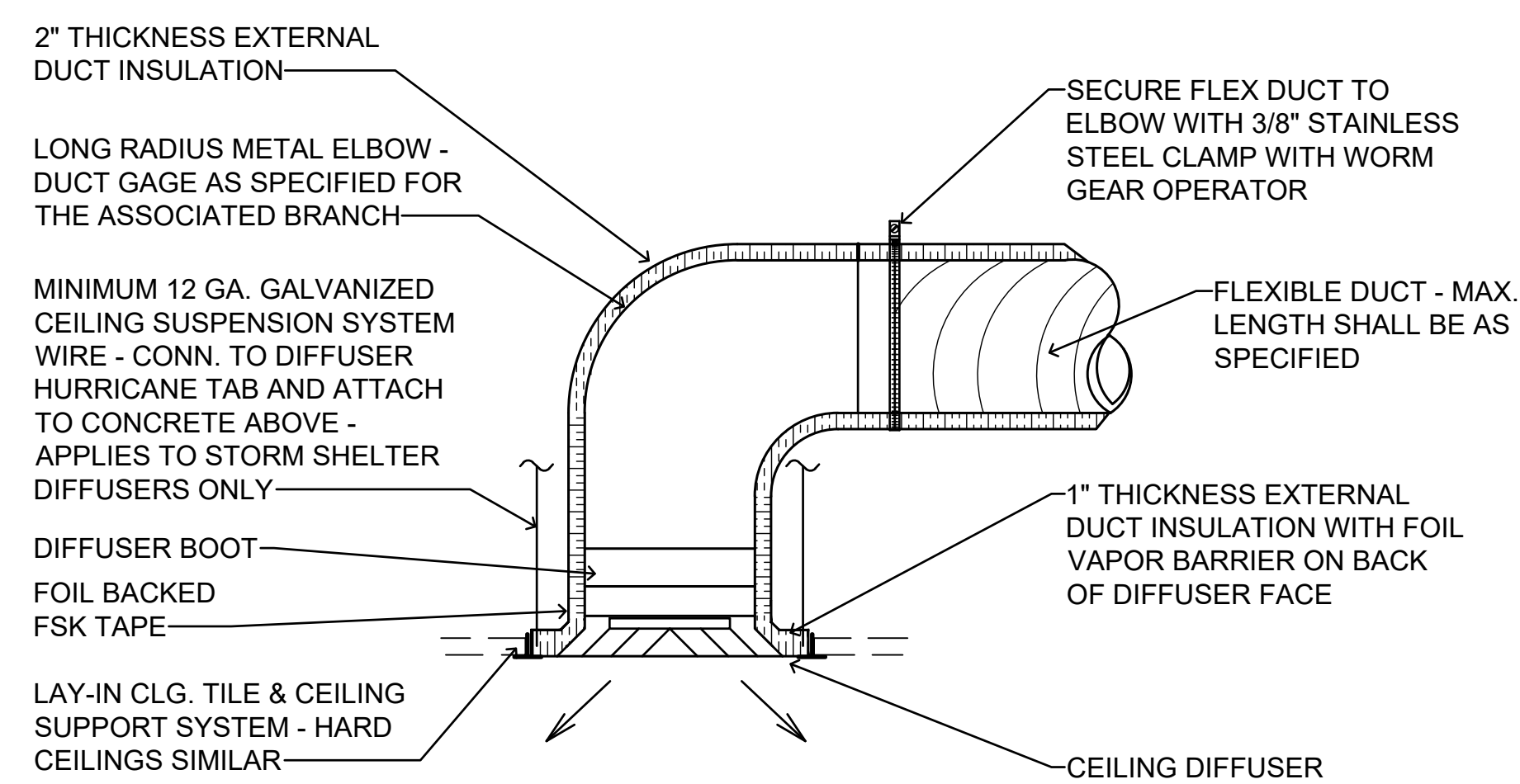
ROUND BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE
RECTANGULAR RUNOUTS SAME EXCEPT WITH RECTANGULAR DUCT



TYPICAL DIFFUSER RUN-OUT CONN.

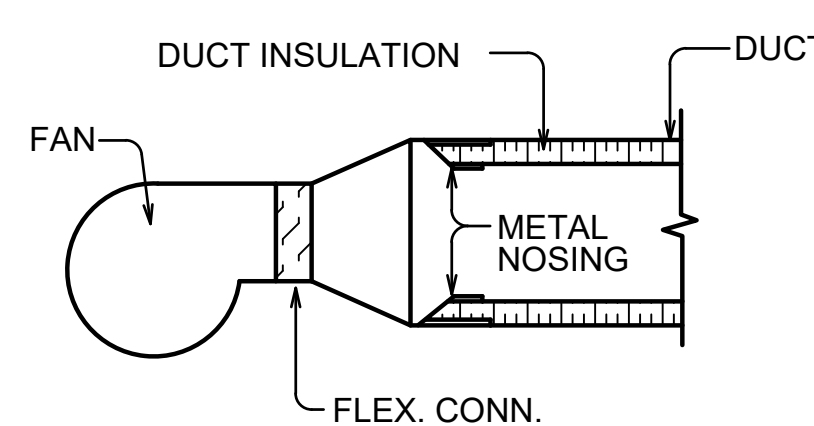
NOT TO SCALE



DIFFUSER BOOT/PLENUM CONNECTION DETAIL

NOT TO SCALE

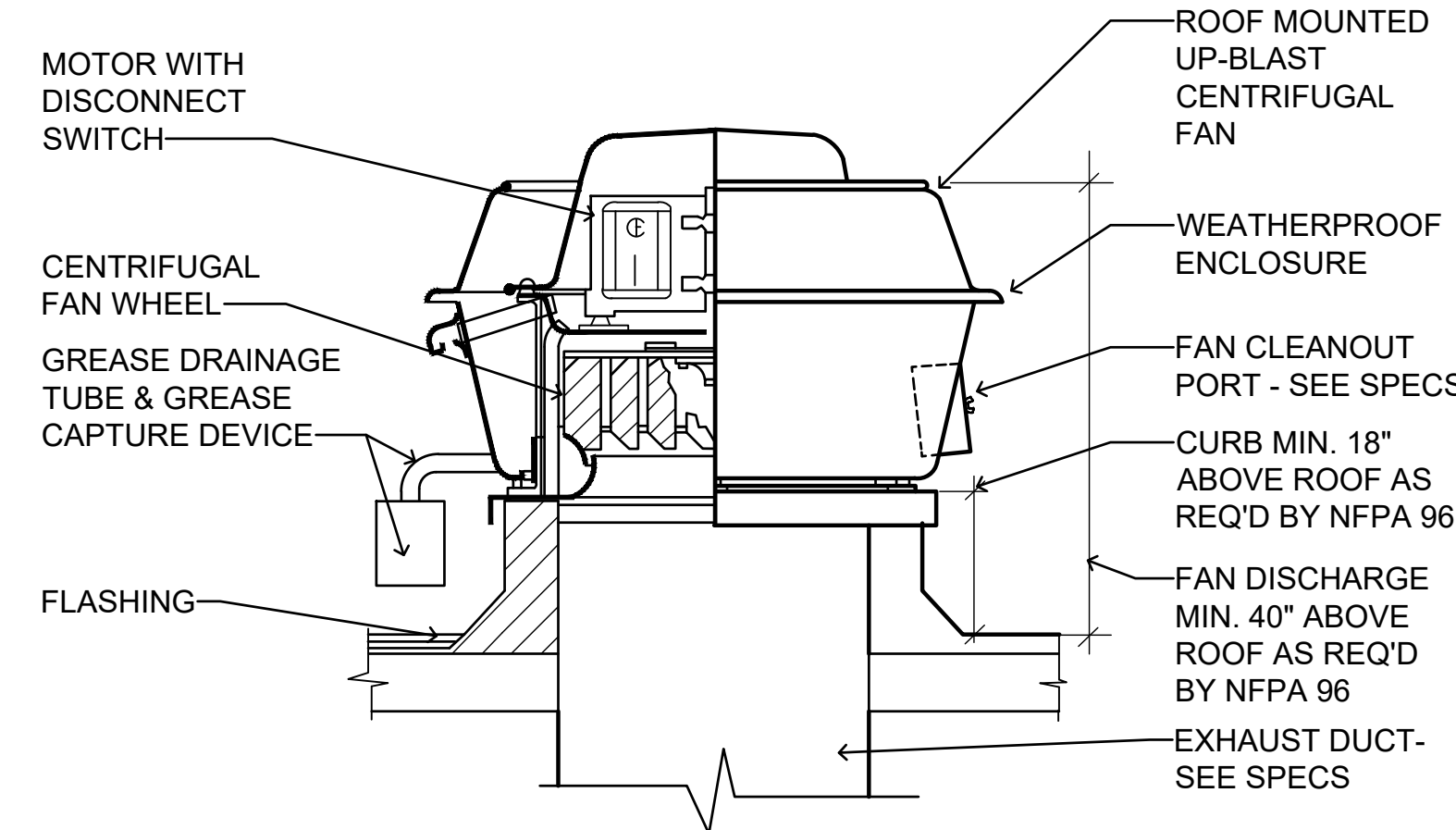
- DIFFUSERS PANELS SHALL BE INSULATED PRIOR TO INSTALLING INTO THE CEILING GRID
- DO NOT COVER STAINLESS STEEL BAND AND WORM GEAR OPERATOR UNTIL ENGINEER HAS INSPECTED THE INSTALLATION.



TYPICAL DUCT LINER INTERRUPTION DETAIL

NOT TO SCALE

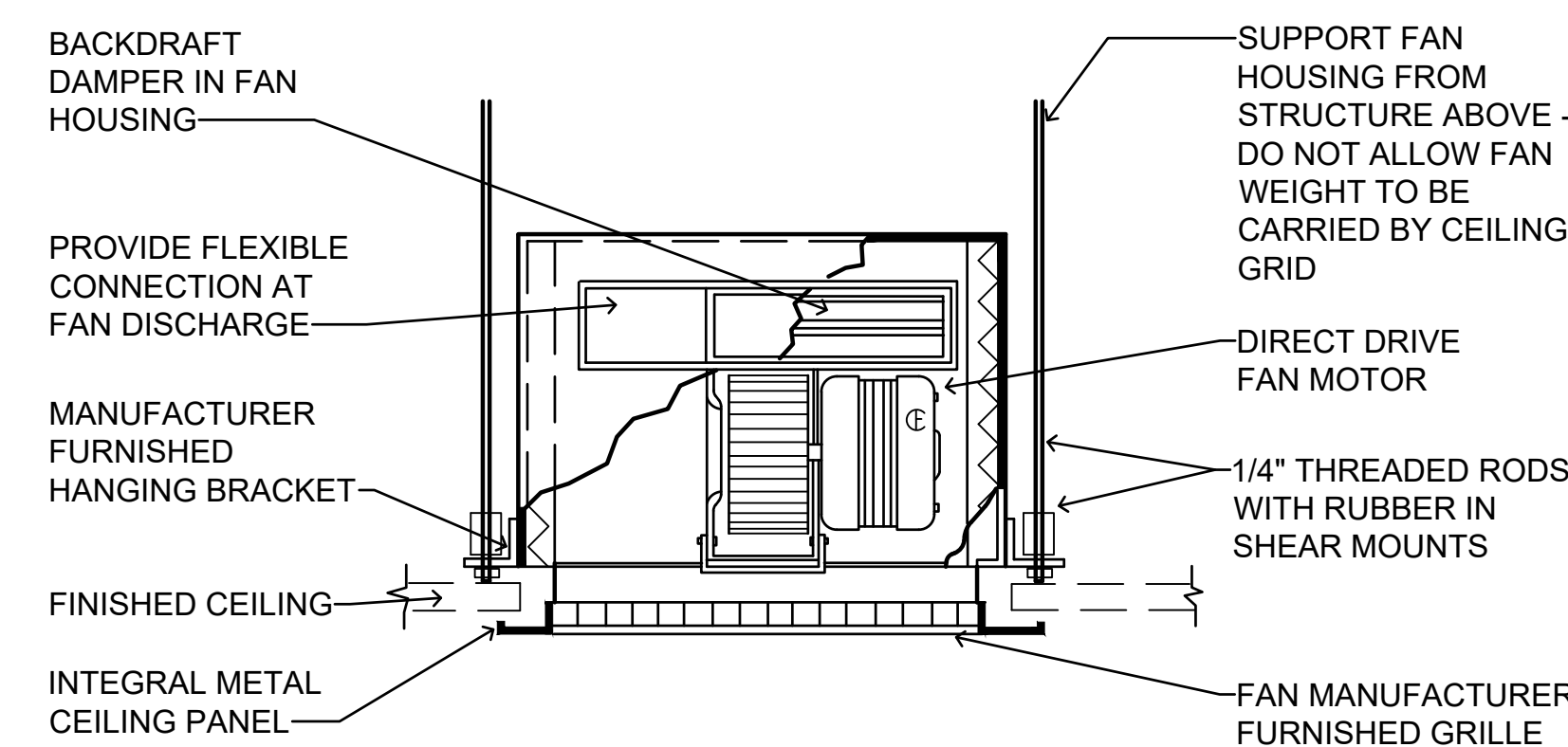
NOTE !! THIS DETAIL APPLIES TO FIRE DAMPER INSTALLATION, WHERE DUCTS CONNECT TO FAN SECTION, ANYWHERE BARE DUCT LINER PROTRUDES INTO THE AIRSTREAM, ANY POINT WHERE LINED DUCT IS PRECEDED BY UNLINED DUCT, BARE DUCT INSULATION EDGES THAT ARE EXPOSED IN THE RETURN AIR PLENUM, ETC. - SEE SPECS FOR ADDITIONAL REQUIREMENTS



ROOF MOUNTED UP-BLAST CENTRIFUGAL EXHAUST FAN CONNECTION DETAIL

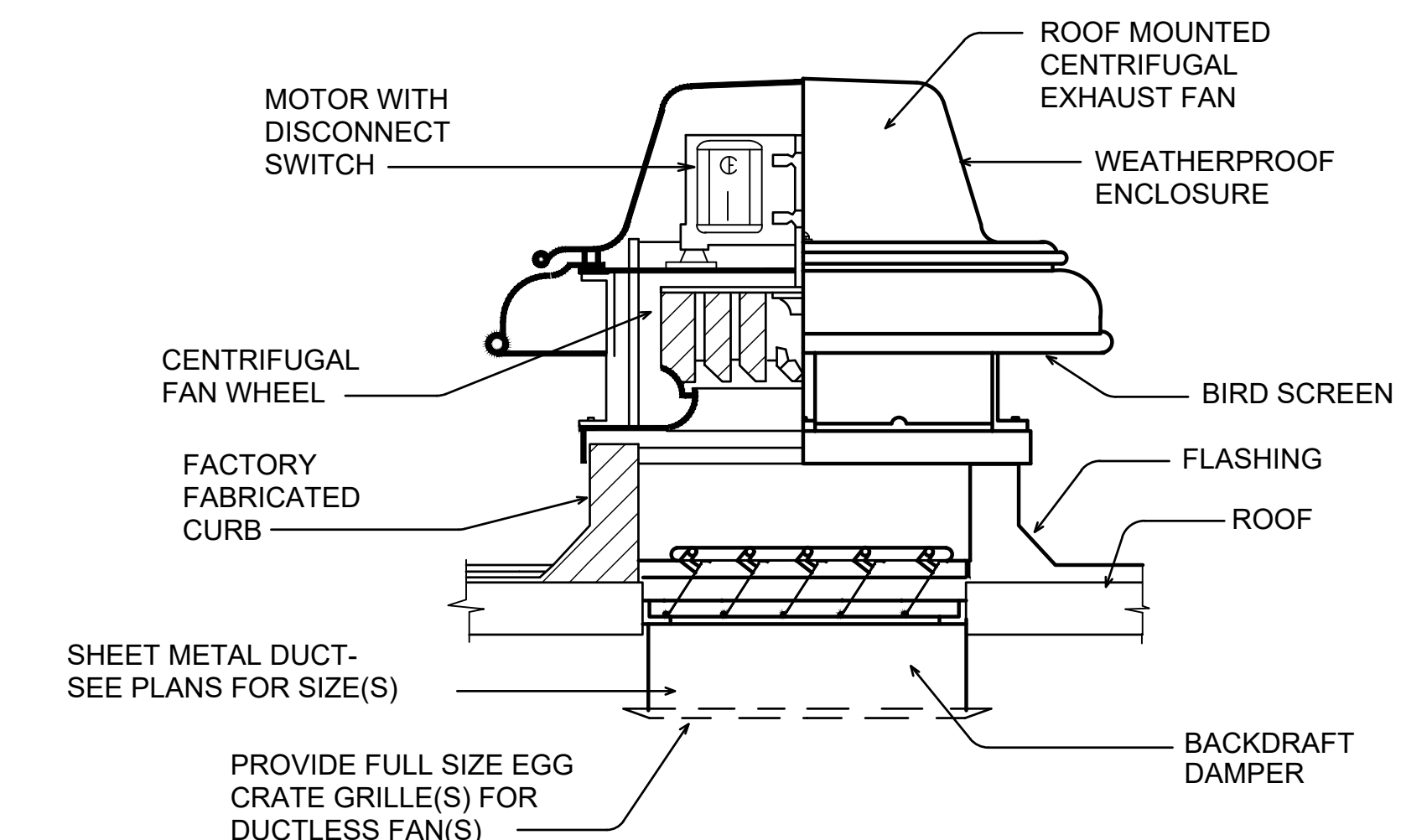
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NOTE!
INSTALLATION AND CURB SHALL MEET THE REQUIREMENTS OF NFPA 96 AND ALL APPLICABLE CODES



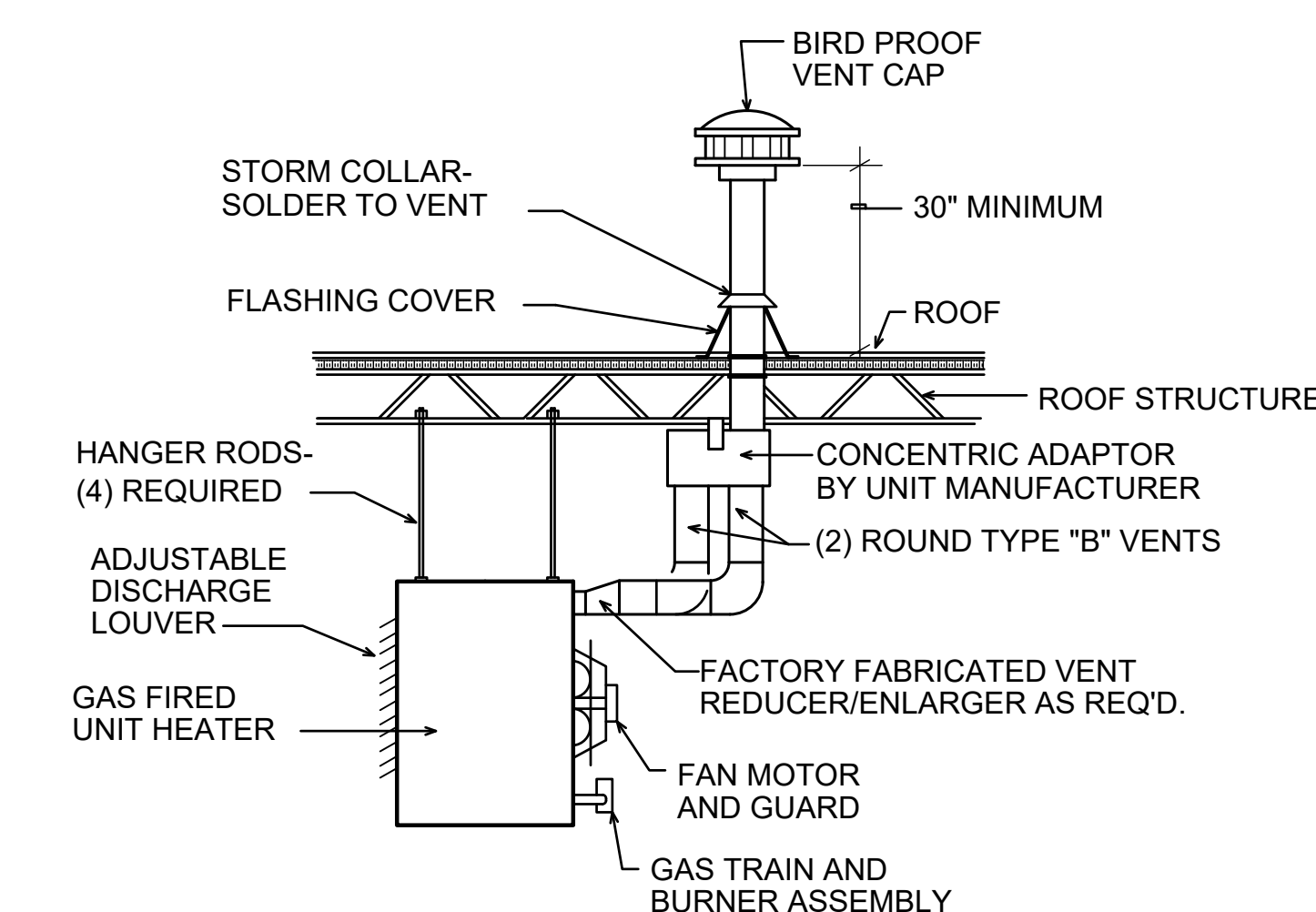
CEILING MOUNTED EXHAUST FAN CONN. DETAIL

NO SCALE



ROOF MOUNTED CENTRIFUGAL EXHAUST FAN CONNECTION DETAIL

NOT TO SCALE



GAS FIRED UNIT HEATER DETAIL

NOT TO SCALE

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

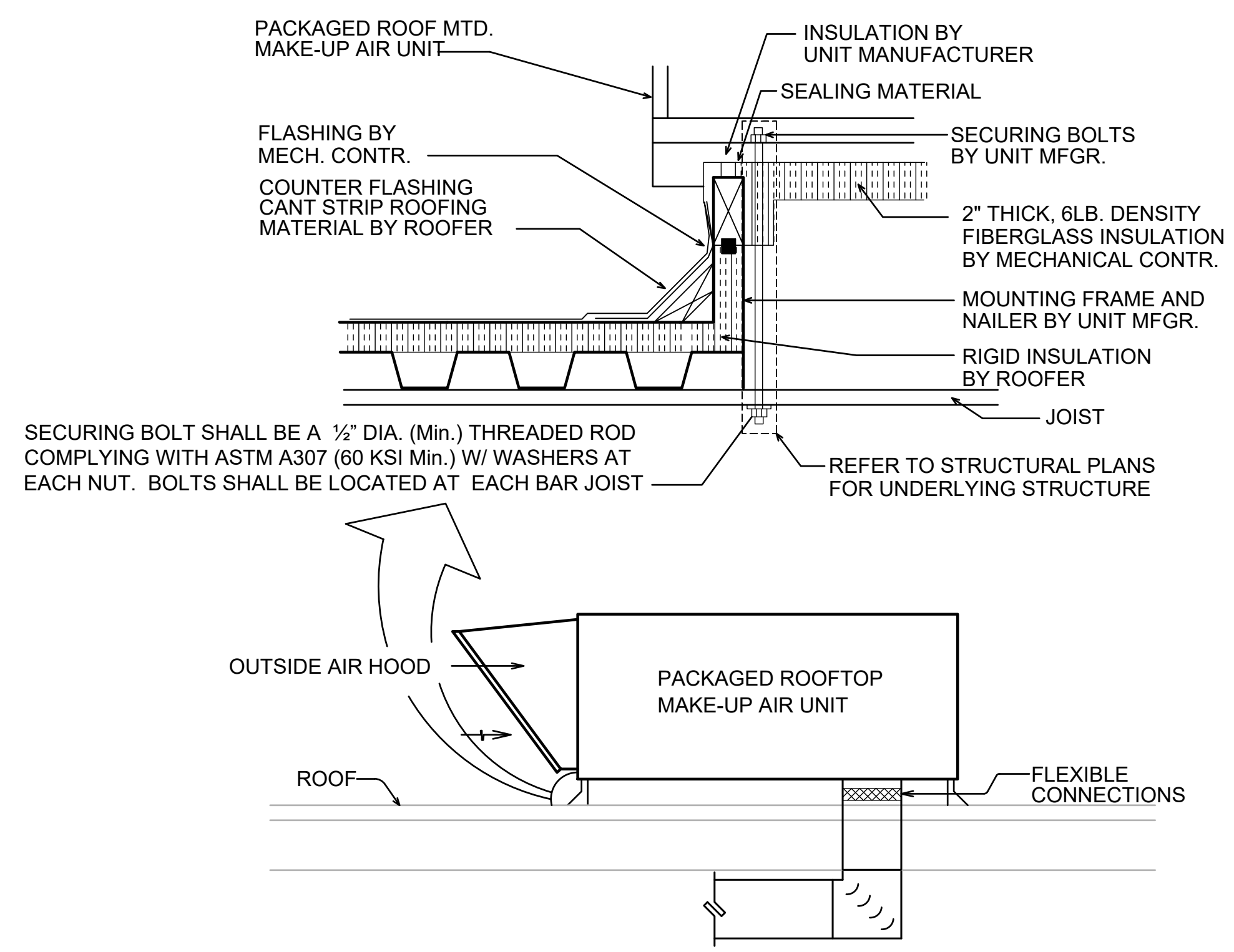
MGM Project No.	SP-5-21
BDW Project No.	2021-118
ZEA Project No.	2022-11
Drawn By:	C. WARD
Date:	05.17.2023
Scale:	AS NOTED

Drawing Title:
HVAC SCHEDULES AND DETAILS

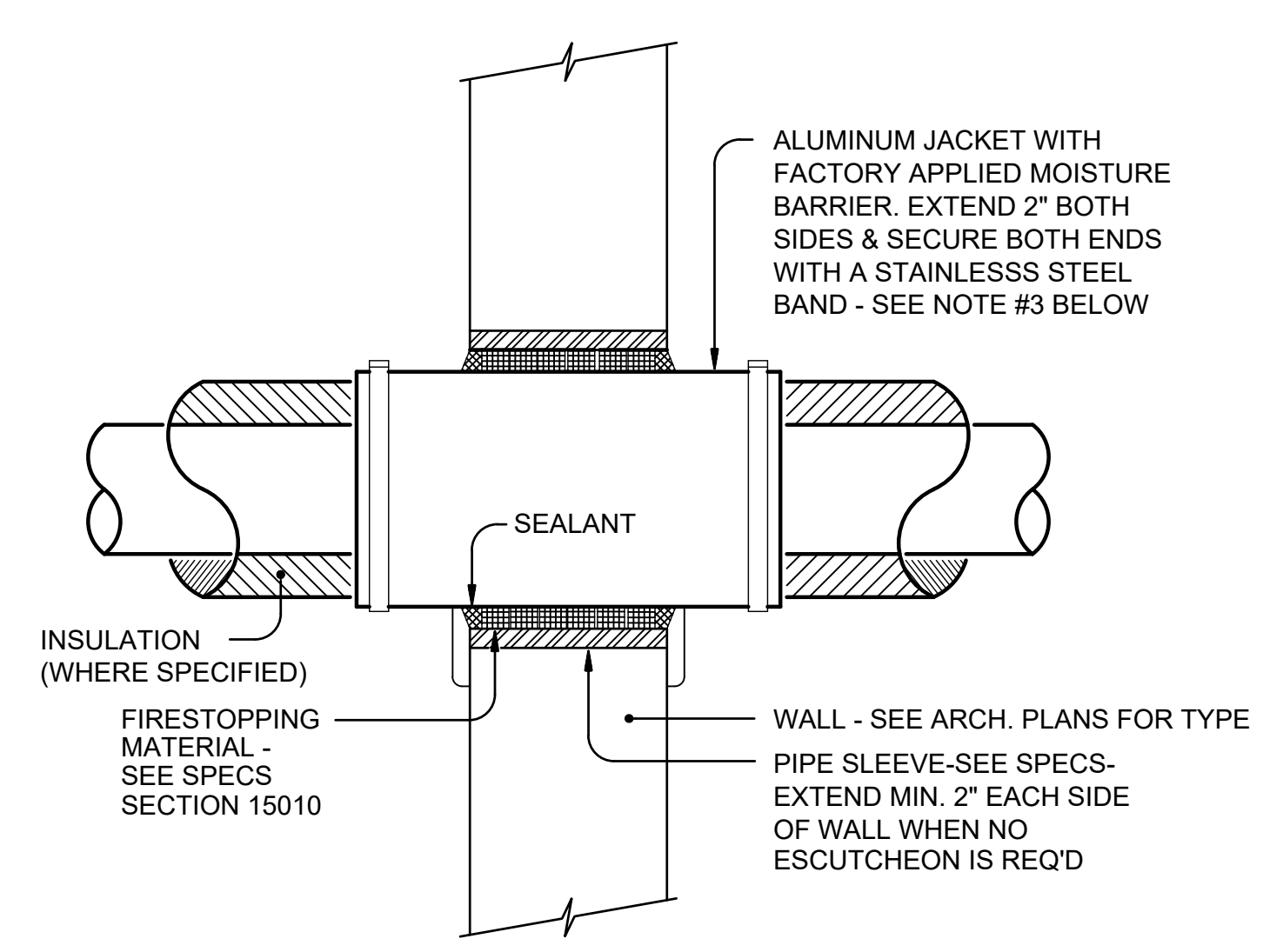
Sheet No:

M4

CONFORMANCE DOCUMENTS

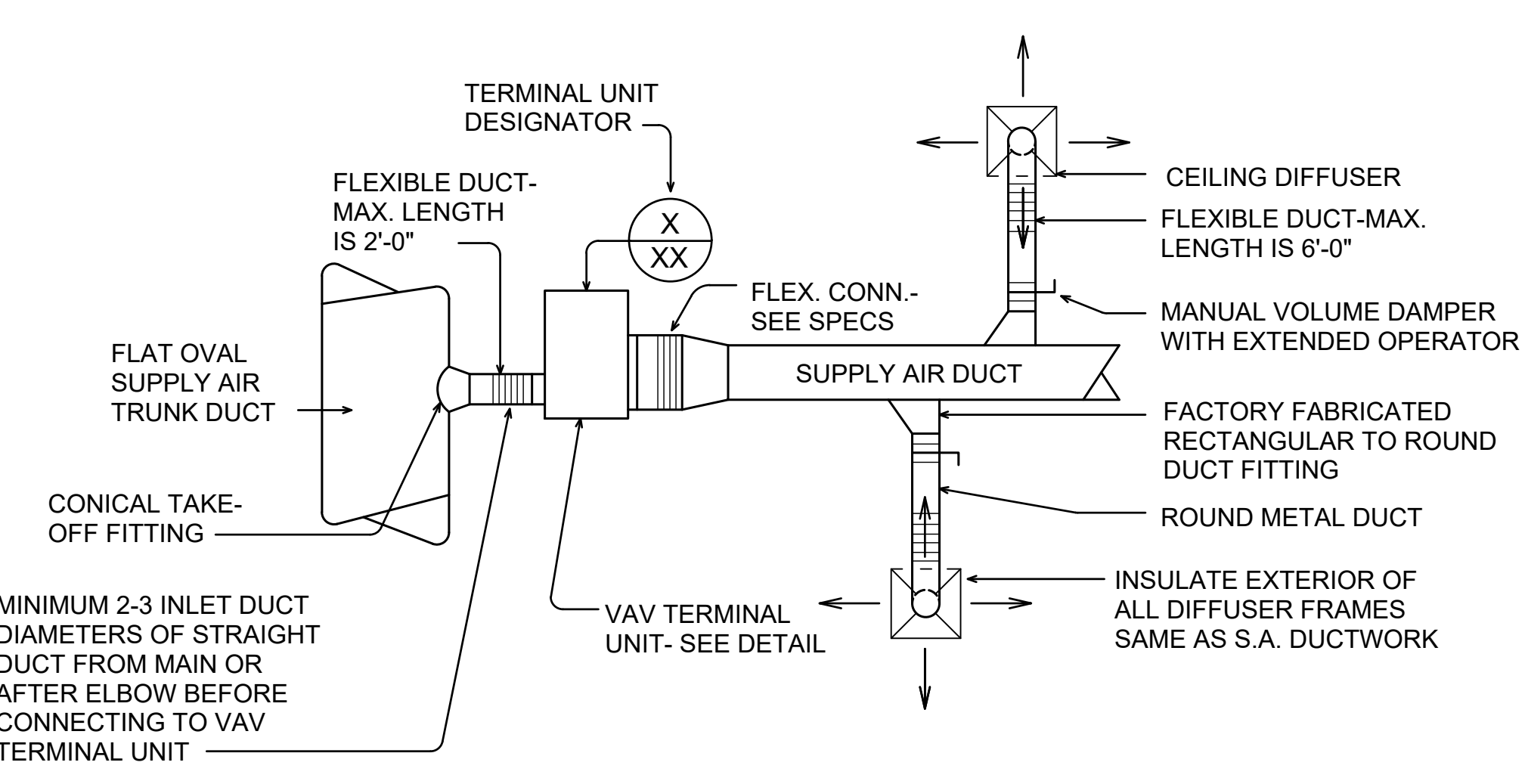


MAKE-UP AIR UNIT MAU-1 CONNECTION DETAIL
NOT TO SCALE

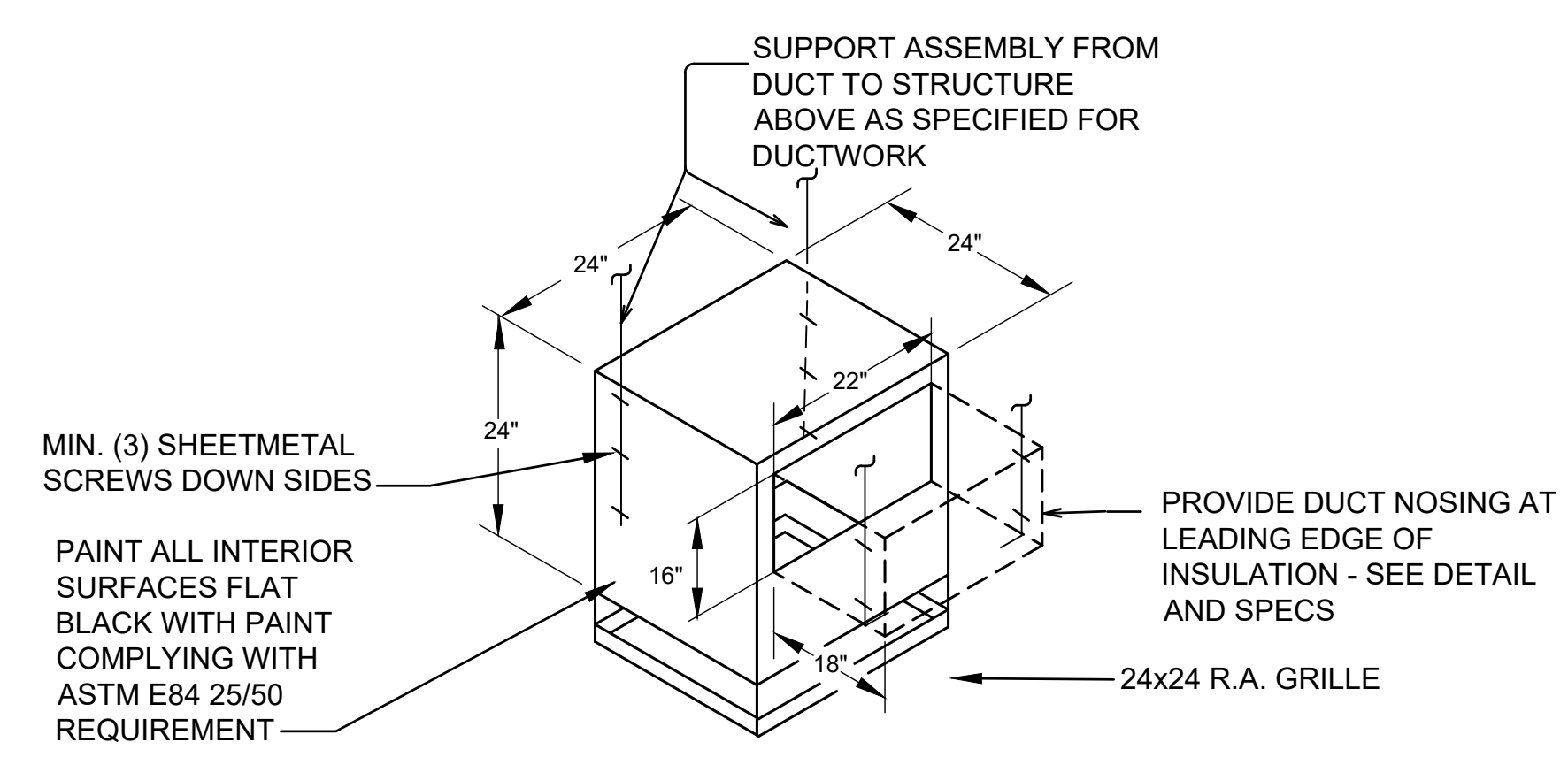


INTERIOR WALL REFRIGERANT PIPING PENETRATION DETAIL
NOT TO SCALE

NOTES:
1. DETAIL APPLIES TO ALL REFRIGERANT PIPING.
2. SEE SPECS FOR SLEEVE REQUIREMENTS
3. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED
4. ONLY ONE PIPE PER SLEEVE ALLOWED.
5. WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING SLEEVE 2\"/>

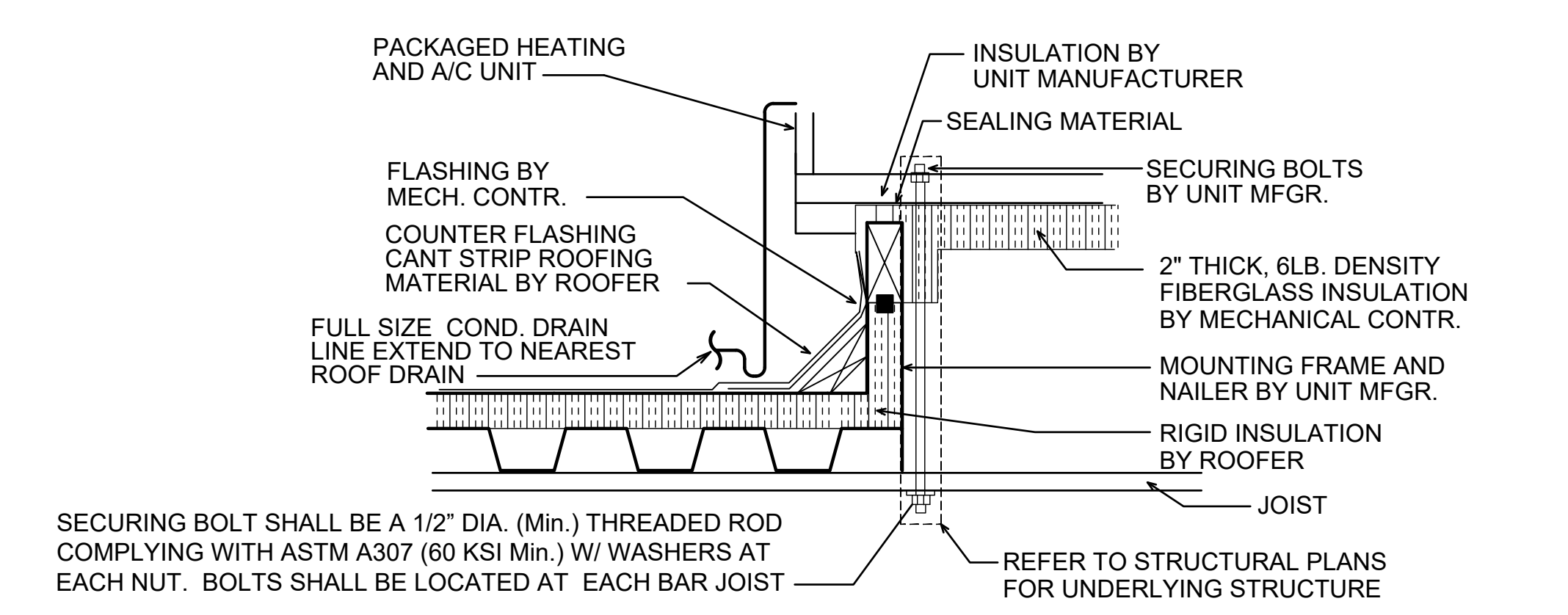


TYPICAL VAV DUCT CONNECTION DETAIL
NOT TO SCALE



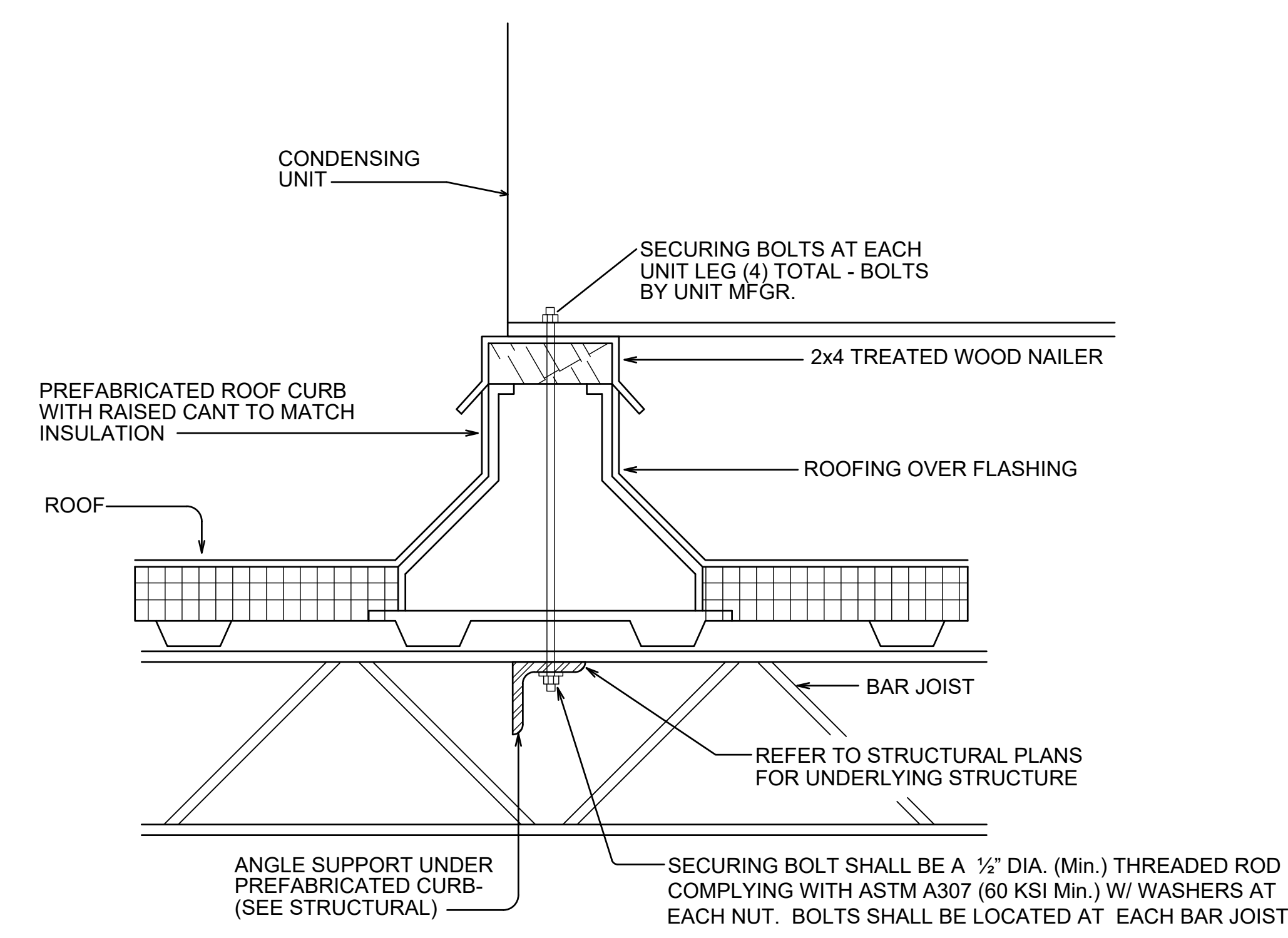
CEILING RETURN GRILLE SOUND TRAP DETAIL
NO SCALE

1. DETAIL IS FOR 24x24 GRILLE - MODIFY DIMENSIONS SHOWN FOR ACTUAL GRILLE SIZE SHOWN ON PLANS.
2. PROVIDE ASSEMBLY AT EACH RETURN AIR GRILLE LOCATED IN THE RETURN AIR PLENUM. MODIFY DIMENSIONS AS REQUIRED TO FIT INTO AVAILABLE SPACE.
3. IN LIEU OF ASSEMBLY ABOVE, THE CONTRACTOR MAY SUBSTITUTE A FULL SIZE SHOP ASSEMBLED 90° ELBOW WITH INSULATION AND DIMENSIONS SHOWN
4. ENTIRE ASSEMBLY SHALL BE INSULATED WITH 2\"/>



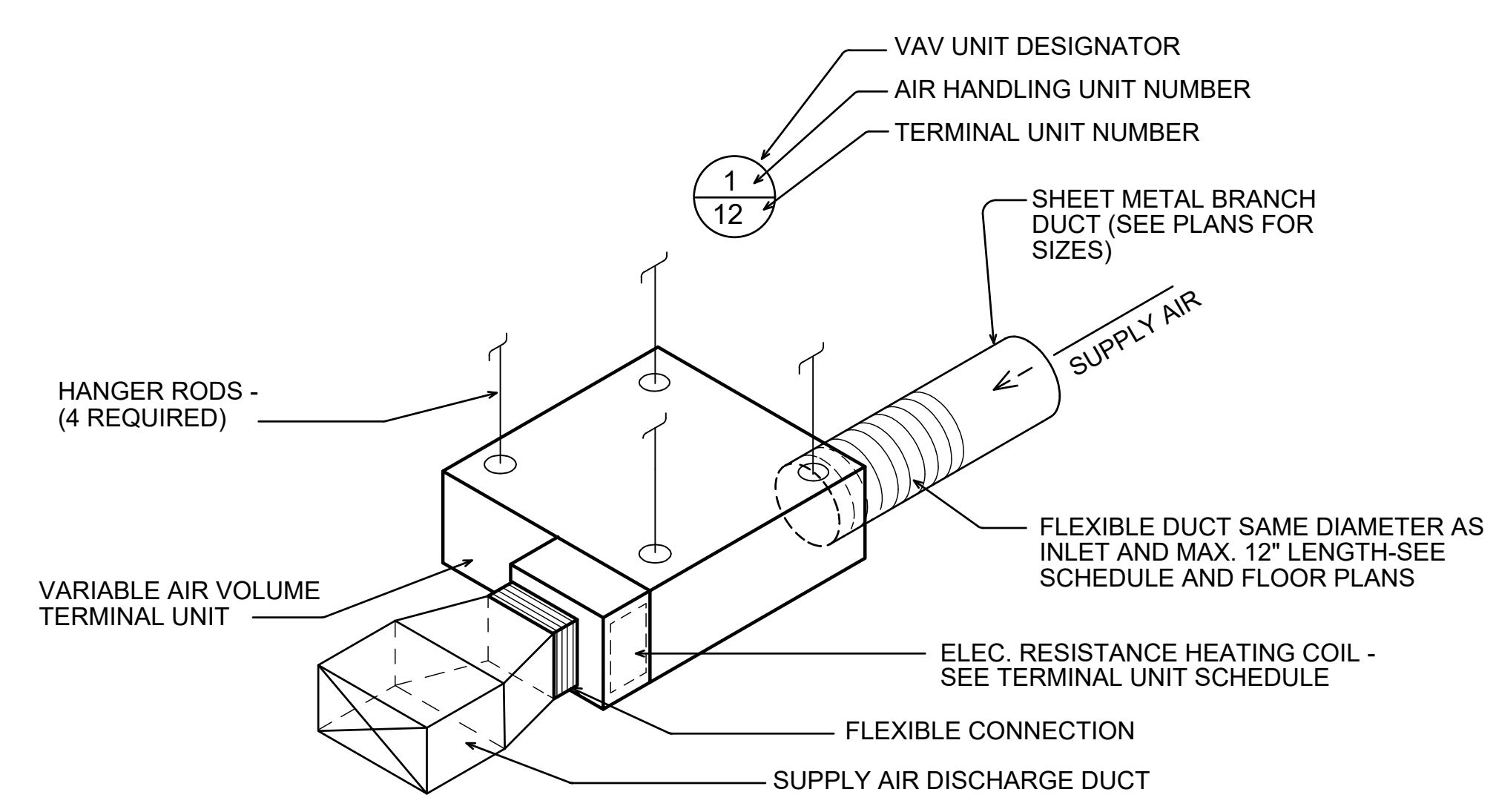
PACKAGED ROOFTOP HEATING & AIR CONDITIONING UNIT CONNECTION DETAIL
NOT TO SCALE

- NOTES:
1.) PAC-1 AND PAC-2 UNITS SIMILAR
2.) SEE PLANS FOR SMOKE DETECTOR REQUIREMENTS



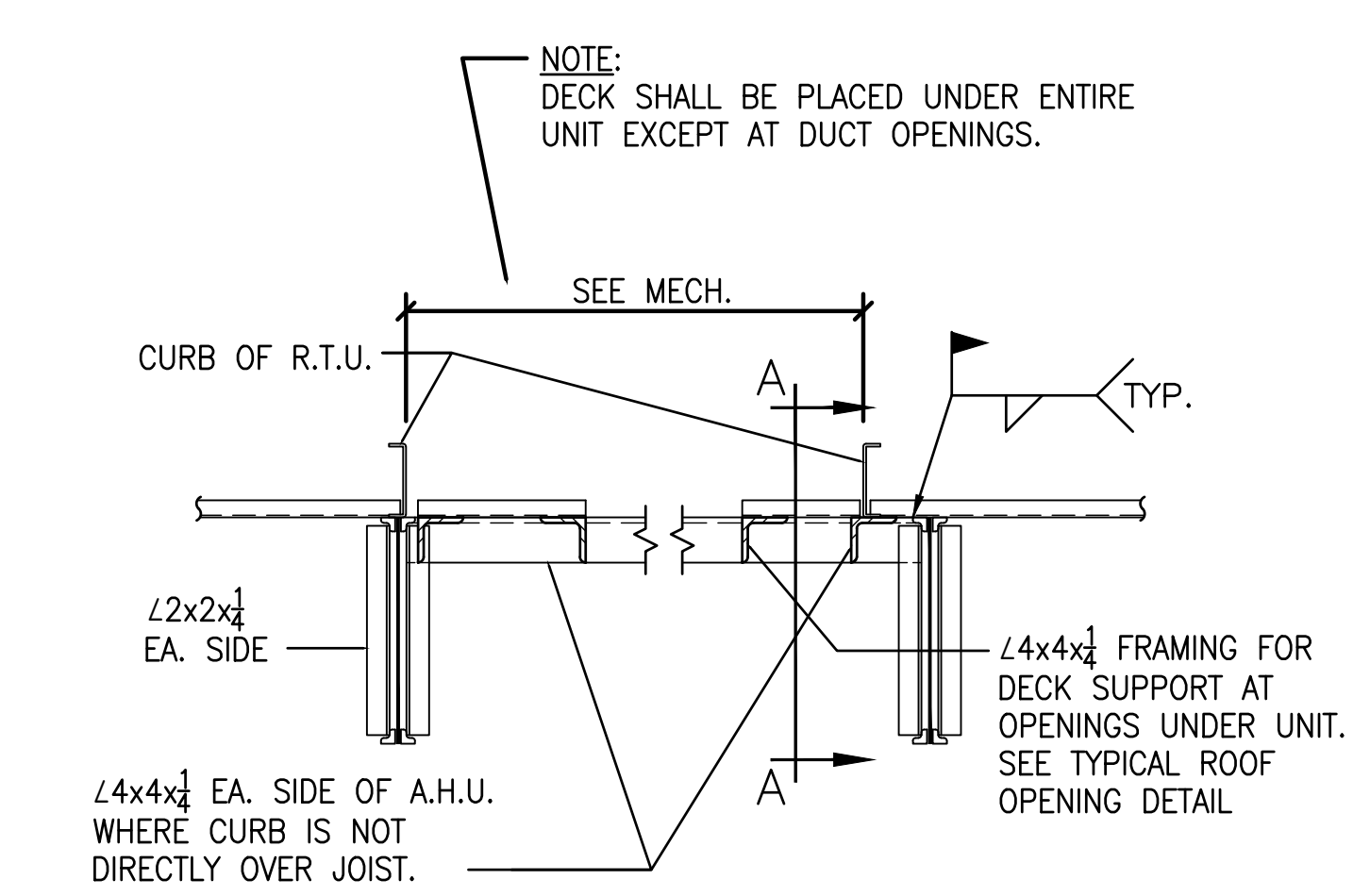
TYPICAL CONDENSING UNITS SUPPORT CURB DETAIL
NO SCALE

COORDINATE ALL CURBS WITH ROOFING CONTRACTOR - PROVIDE AS REQUIRED TO MAINTAIN ROOFING WARRANTY

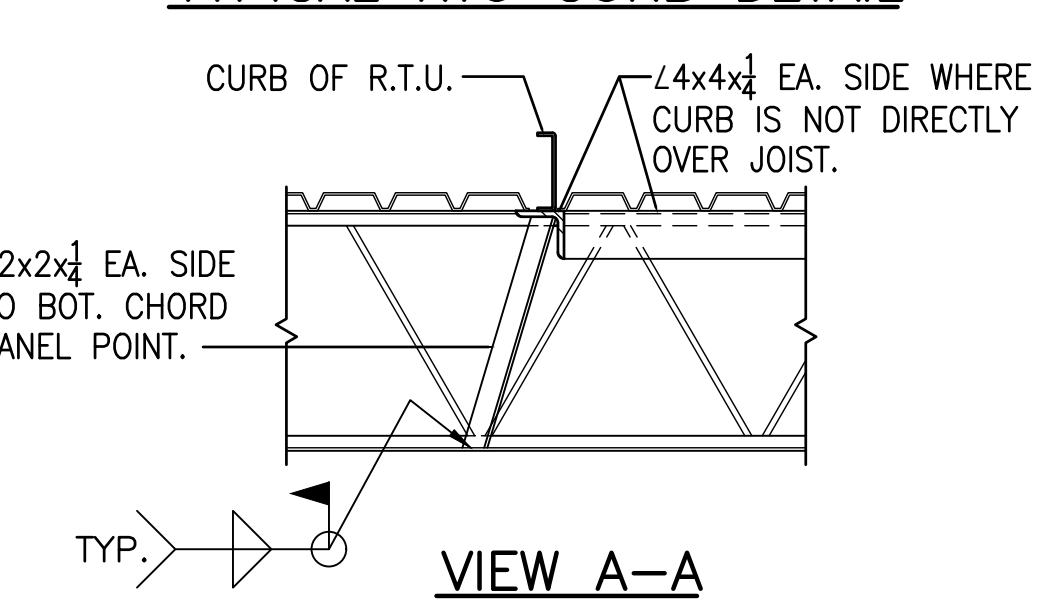


VARIABLE AIR VOLUME TERMINAL WITH ELEC. HEAT UNIT CONNECTION DETAIL
NOT TO SCALE

NOTE: N.C. RATING SHALL NOT EXCEED THAT SPECIFIED IN THE TERMINAL UNIT SCHEDULE AT JOB OPERATING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ROOM FINISHES, etc.



TYPICAL RTU CURB DETAIL



NOTE:
DETAIL ABOVE IS SHOWN TO INDICATE INTENT ON HOW THE ROOFTOP UNITS ARE TO BE ANCHORED - REQUIREMENTS ABOVE ARE BY THE GENERAL CONTRACTOR - REFER TO STRUCTURAL PLANS FOR SPECIFIC REQUIREMENTS

REVISIONS		
No.	Description	Date
1.	Construction Documents	02-03-2023
2.	Conformance Documents	05-17-2023

MGM Project No. SP-5-21
BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
HVAC DETAILS

Sheet No:

M5

CONFORMANCE DOCUMENTS



REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

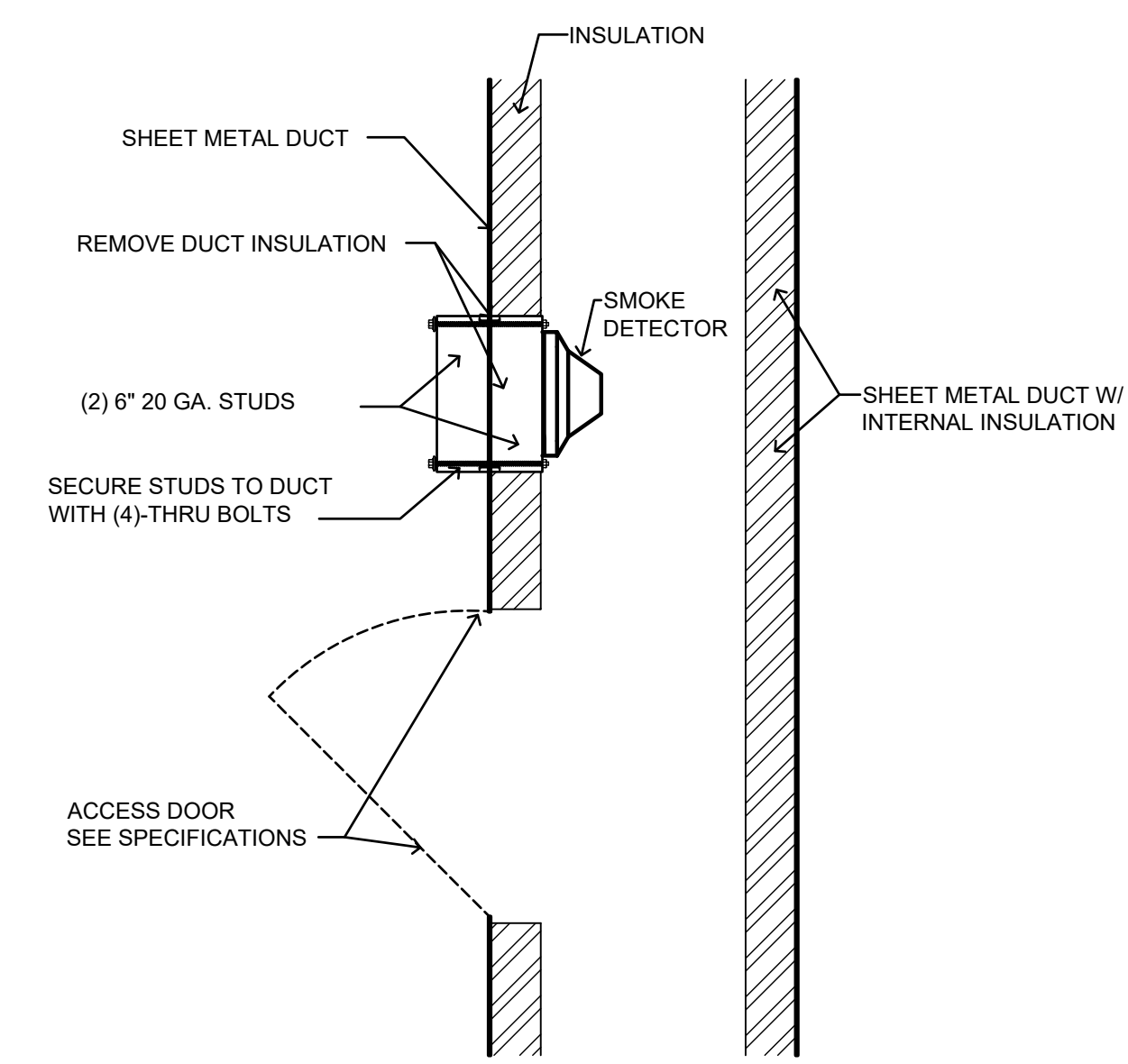
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BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
HVAC DETAILS, OUTSIDE
AIR AND EXHAUST AIR
CALCULATIONS

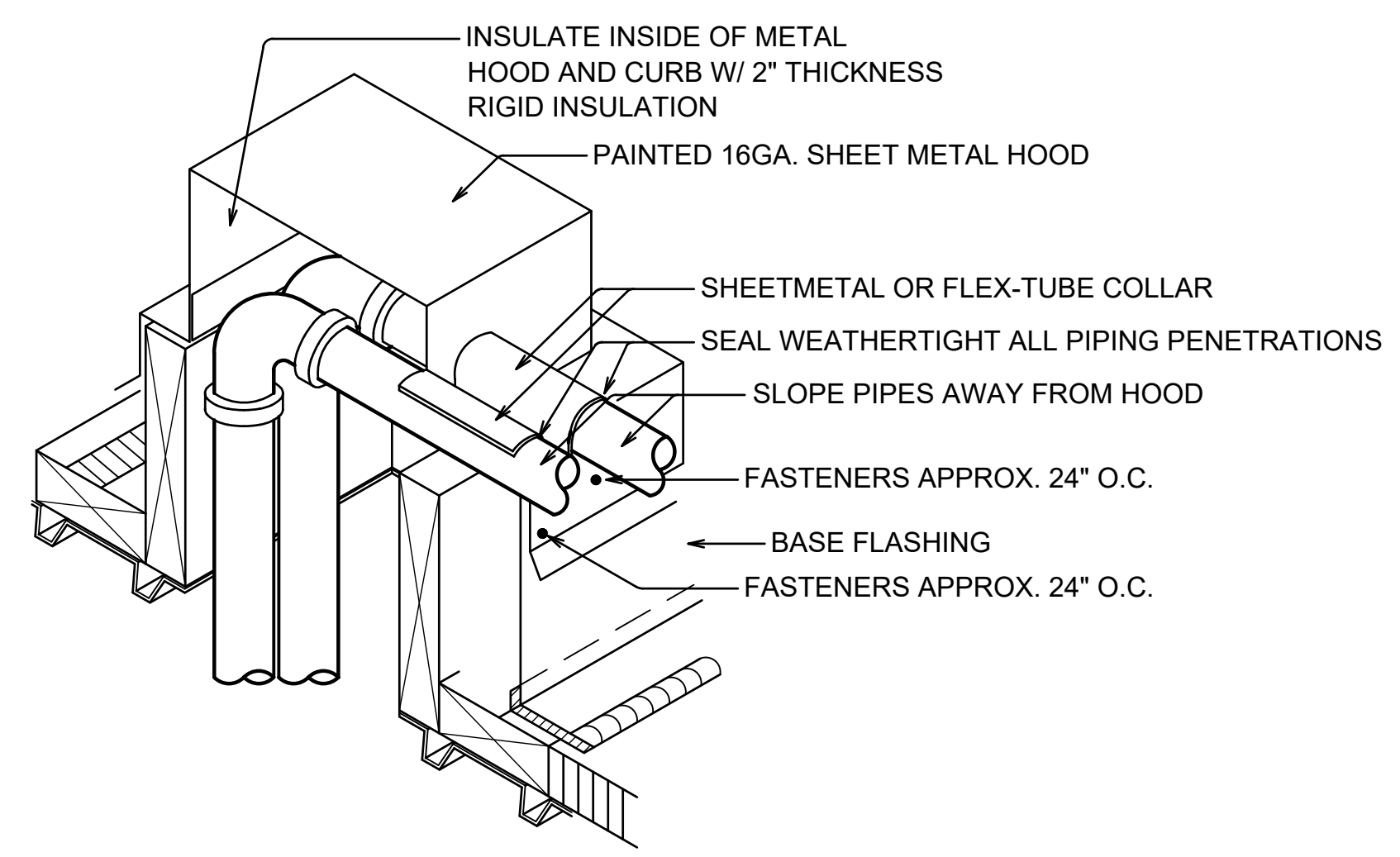
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M6

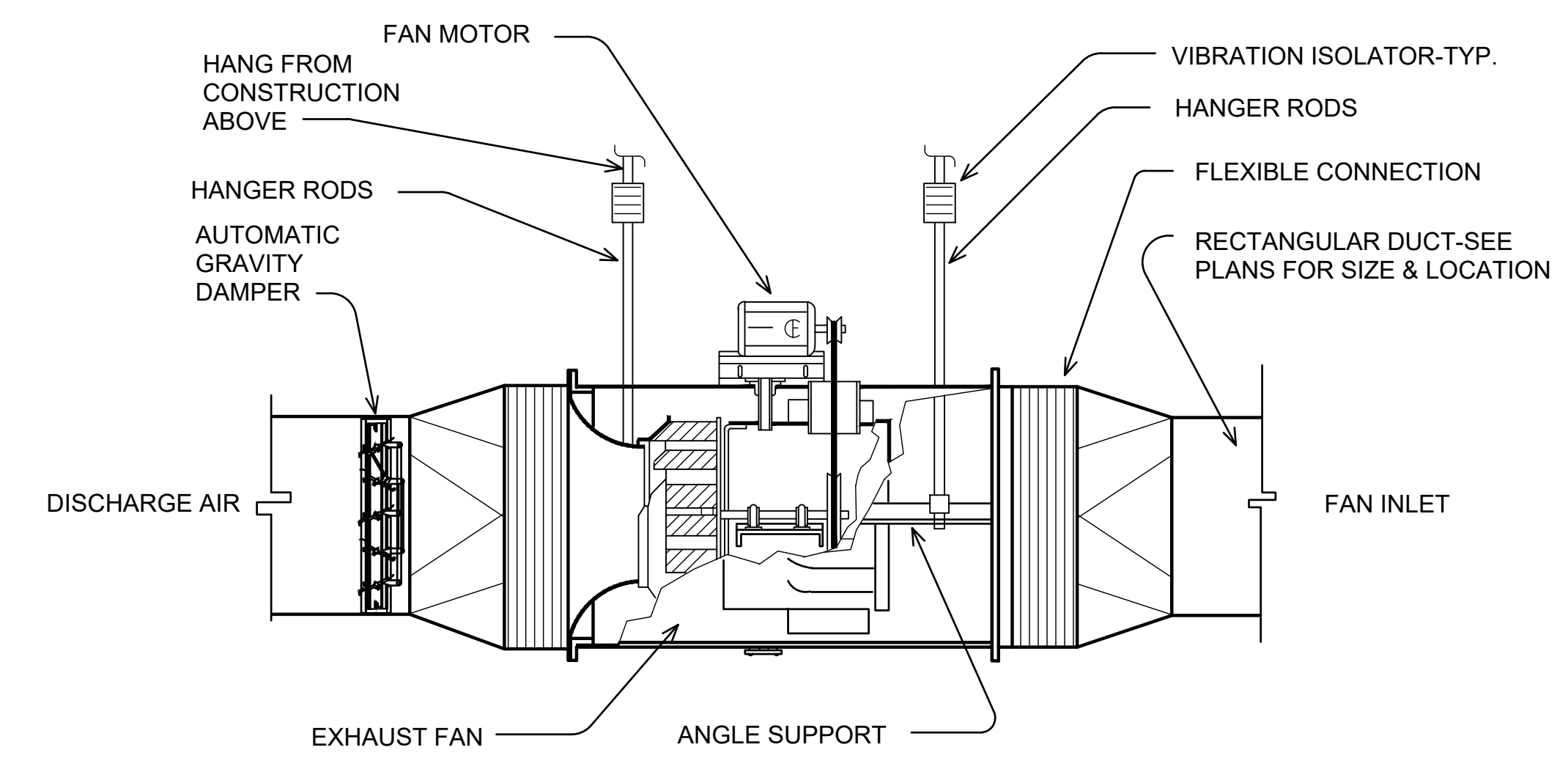
CONFORMANCE
DOCUMENTS



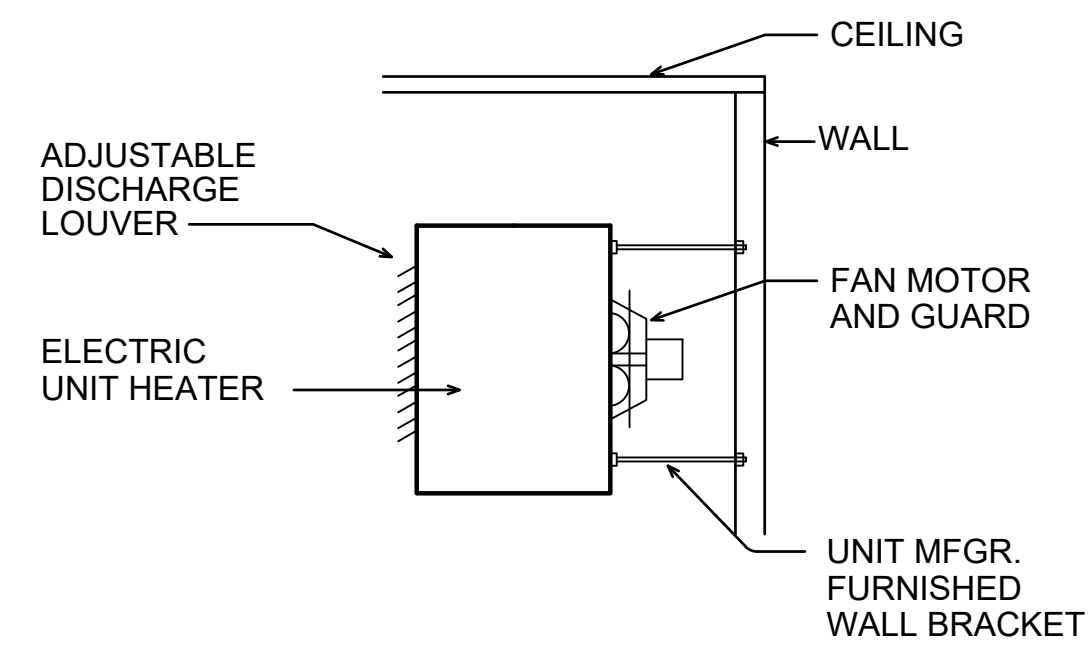
SMOKE DETECTOR MOUNTING DETAIL
NOT TO SCALE



TYPICAL PIPING ROOF PENETRATION CURB / FLASHING DETAIL
NOT TO SCALE
CONTRACTOR MAY SUBSTITUTE FACTORY FABRICATED ASSEMBLY IN LIEU OF FIELD FABRICATED ASSEMBLY SHOWN PROVIDED THAT IT IS SIMILAR IN CONSTRUCTION



CABINET TYPE IN-LINE EXHAUST FAN DETAIL
NOT TO SCALE



WALL MOUNTED ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE

HP-A OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
MEETING / CLRM 164	1122	50	57	0.06	68	5	285	441.25	0.8				0	2520	0.175099
BREAK 165	125	25	4	0.06	8	5	20	35	0.8				0	140	0.25
STORAGE 166	130	0	0	0.06	8	0	0	10	0.8				0	100	0.1
TOILET 168	50	5	1	0.06	3	5	5	10	0.8	1	70		70	50	0
VEST 167	50	5	1	0.06	3	5	5	10	0.8				0	50	0.2
OFFICE 175	105	5	1	0.06	7	5	5	15	0.8				0	150	0.1
Total			63		87		315								
Cumulative CFM								511.25							
Max "Zp"	0.25														
"Ev"	0.9														
"You" Total OSA EQ 4-6	511.25														
Total Building Occupancy	62														
Zone Occupancy	62														
"D" from EQ 4-7	1														
"Vot" Equation 4-8	568.0556														
TOTAL OSA	568.0556														

PAC-2 OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
OFFICE 176	105	5	1	0.06	7	5	5	15	0.8				0	160	0.09375
VESTIBULE 130	165	10	2	0.06	10	5	10	25	0.8				0	840	0.029762
COMMON BATH 173										14	70		980	720	0
CORRIDOR 2,3,4, & 5	1327	0	0	0.06	80	5	0	100	0.8				0	960	0.104167
BUNKS 18,19,20,21,22,23 & 24	780	20	16	0.06	47	5	80	158.75	0.8				0	1120	0.141741
BATH 132 & 133										2	70		140	200	0
Total			19		17		95								
Cumulative CFM								298.75							
Max "Zp"	0.141741														
"Ev"	1														
"You" Total OSA EQ 4-6	298.75														
Total Building Occupancy	19														
Zone Occupancy	19														
"D" from EQ 4-7	1														
"Vot" Equation 4-8	298.75														
TOTAL OSA	298.75														

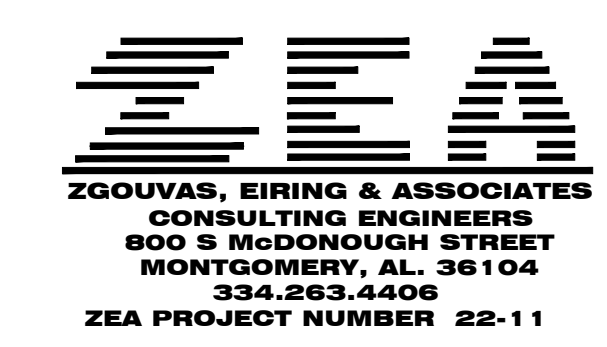
PHAC-3/4 OUTDOOR AIR AND EXHAUST CALCULATIONS																
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5	
APPARATUS BAYS 113	6110												0.75	4583	11200	0
BOOTS 114	155	25	4	0.06	10	10	40	62.5	0.8				0	400	0.15625	
EXTRACTOR/LAUNDRY 115	265	25	2	0.06	16	10	20	45	0.8				0	400	0.1125	
Total			6		10		60									

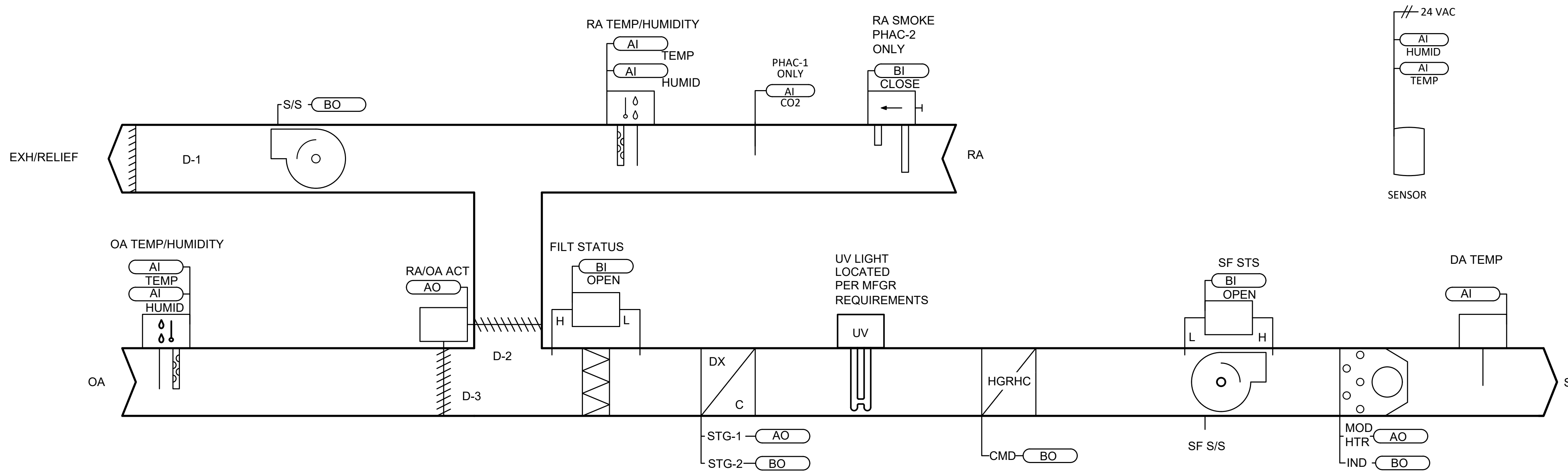
OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
CASSETTE / DUCTLESS UNITS															
PANTRY 107	115	0	0	0.12	14	0	0	17.5	0.8				0	150	0.116667
COMMAND WATCH 109	215	5	2	0.06	13	5	10	28.75	0.8				0	350	0.082143
Total			2		27		10								

PAC-1 OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
BUNK 1,2,3,4,7,8,9,12,13,14, & 15	1100	20	22	0.06	66	5	110	220	0.8				0	1830	0.120219
BATTALION CHIEF 141	105	20	3	0.06	7	5	15	27.5	0.8				0	180	0.152778
CORRIDOR 1	525	0	0	0.06	32	0	0	40	0.8				0	490	0.081633
BATTALION CHIEF 136	240	5	1	0.06	9	5	5	17.5	0.8				0	180	0.097222
BUNK 5	105	20	3	0.06	7	5	15	27.5	0.8				0	180	0.152778
BATH 139										2	70		140	100	0
SUPPRESSION OFFICE 131A	175	5	1	0.06	11	5	5	20	0.8				0	190	0.105263
MEDIC OFFICE 127A	175	5	1	0.06	11	5	5	20	0.8				0	170	0.117647
TOILETS										2	70		140	200	0
Total			31		114		155								
Cumulative CFM								372.5							
Max "Zp"	0.152778														
"Ev"	0.9														
"You" Total OSA EQ 4-6	372.5														
Total Building Occupancy	31														
Zone Occupancy	30														
"D" from EQ 4-7	1.033333														
"Vot" Equation 4-8	413.8889														
TOTAL OSA	413.8889														

PHAC-1 OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
TRAINING ROOM 166	775	35	28	0.12	93	10	280	466.25	0.8				0	1600	0.291406
Total					93		280								
Cumulative CFM								466.25							

PHAC-2 OUTDOOR AIR AND EXHAUST CALCULATIONS																
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5	
KITCHEN 106	622												0.7	436	1709	0
DINING 105	500	70	35	0.18	90	7.5	263	441.25	0.8				0	1670	0.264322	
LOUNGE 131	660	0	2	0.06	40	5	10	62.5	0.8				0	750	0.083333	
TOILET 109 / 102										1	70		70	100	0	
VESTIBULE 103	210	30	7	0.06	13	5	35	60	0.8				0	300	0.2	
STORAGE 104	80	0	0	0.12	10	0	0	12.5	0.8				0	100	0.125	
PUBLIC LOBBY 101	270	10	3	0.06	17	5	15	40	0.8				0	500	0.08	
Total			47		90		323									
Cumulative CFM								616.25								
Max "Zp"	0.264322															
"Ev"	0.8															
"You" Total OSA EQ 4-6	616.25															
Total Building Occupancy	47															
Zone Occupancy	47															
"D" from EQ 4-7	1															
"Vot" Equation 4-8	770.3125															
TOTAL OSA	770.3125															





PACKAGED ROOFTOP UNIT (PHAC-1 and PHAC-2) CONTROL SCHEMATIC

NOT TO SCALE

PACKAGED ROOFTOP HEATING AND AIR CONDITIONING UNITS PHAC-1 AND PHAC-2 SEQUENCE OF OPERATION

Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied Bypass, Occupied Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints. This facility operates 24/7/365.25. No unoccupied requirements are necessary

Occupied Mode:

During occupied periods, the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The DX cooling stage and gas heat shall modulate to maintain the occupied space temperature setpoint. If economizing is enabled the outside air damper shall modulate to maintain the occupied space temperature setpoint.

Optimal Stop:

Not required. The system operates 24/7/365.25

Occupied Bypass:

Not required. The system operates 24/7/365.25

Cooling Mode:

The unit controller shall use the space temperature sensor and space temperature cooling setpoint to calculate the discharge air cooling setpoint and determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by modulating the economizer or staging the DX cooling as required to maintain the discharge air setpoint. Once all economizing requirements have been met, compressor operation will be enabled if the economizer alone cannot meet the demand. Once compressor operation is started, the variable speed compressor will be modulated to maintain the discharge air temperature to the active discharge air cooling setpoint. If the variable speed compressor reaches its maximum speed for stage one, and there is additional demand for cooling, the controller will energize the first fixed speed compressor on circuit two. Once the first fixed speed compressor is energized, the variable compressor speed will be reduced to its minimum speed, then released back to discharge air temperature control. Additional stages will respond in the same manner. Once the active cooling demand has been satisfied, compressors will begin staging down in reverse order from the stage up sequence. Once the unit has staged down all fixed compressors, and there is no longer a demand for the variable speed compressor, the compressor will modulate down to its minimum speed and then will be de-energized, while adhering to all shutdown requirements.

Heating Mode:

The unit controller shall monitor space temperature and space temperature heating setpoint to determine when to initiate requests for heat. When the space temperature drops below the space temperature heating setpoint, the controller shall enable the modulating heat bank at high fire for 60 seconds, then the controller shall modulate the heat bank to the necessary rate to satisfy the space temperature heating setpoint. The supply fan speed shall vary to meet zone heating requirements in conjunction with the heat bank output. Once the space temperature rises above the setpoint, the heating cycle shall be disabled.

Dehumidification:

Factory installed hot gas reheat, as applicable, shall allow application of dehumidification. Dehumidification shall be allowed only when the outside air temperature is above 40.0 deg. F and below 100.0 deg. F. The economizer outside air damper shall drive to minimum position during dehumidification.

On a call for dehumidification shall energize and both compressors shall enable. When the humidity control setpoint is satisfied, the valve shall be de-energized and both compressors shall be disabled. If there is a call for 1st stage cooling while in the dehumidification mode, no action shall take place. If there is a call for 2nd stage cooling, the reheat valve shall be de-energized, and the unit shall revert to the cooling mode. If 2nd stage cooling is satisfied and there is still a call for dehumidification, the hot gas reheat coil valve shall once again be energized.

Economizer Control / Comparative Enthalpy:

The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall modulate between its minimum position and 100% to maintain the space temperature setpoint. Minimum position shall be calculated based on supply fan speed. If the supply air temperature starts to fall below supply air temperature setpoint, the outdoor damper shall be at minimum position. Compressors shall be delayed from operating until the economizer has opened to 100% for 5 minutes.

Comparative Enthalpy:

Outside air enthalpy shall be compared with return air enthalpy point. The economizer shall be enabled when outdoor air enthalpy is less than return air enthalpy - 3.0 BTU/LB. The economizer shall be disabled when outdoor air enthalpy is greater than return air enthalpy.

Demand Control Ventilation (DCV) PHAC-1 Only:

As the supply fan speed command varies between minimum and maximum, the Building Design and DCV Minimum Position Targets shall be calculated linearly between the user selected setpoints based on the instantaneous supply fan speed. The Bldg. Design and DCV Minimum Position Targets will be used to calculate the Active OA Damper Minimum Position Target based on CO2 levels relative to the active Design and DCV CO2 setpoints.

The Design Minimum and DCV Minimum OA Damper Position setpoints shall have a range of 0-100% while the Design Minimum and DCV Minimum OA Damper Position setpoints at Full fan speed shall have a range of 0-50%.

Smoke Detector Shutdown (PHAC-2):

The unit shall shut down in response to a signal from the smoke detector indicating the presence of smoke. A signal shall be sent to the fire alarm panel in the facility. The smoke detectors shall be interlocked to the unit through the dry contacts of the smoke detectors and alarm at the BAS operator console. A manual reset of the smoke detectors shall be required to restart the unit. Upon resetting of the unit smoke detector the unit shall return to its normal, occupied sequence of operation. Prior to bid, coordinate all requirements with the Electrical Contractor, Mechanical Contractor and the Fire Alarm Contractor and provide as required to accomplish the specified sequence of operation.

Filter Status:

A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be annunciated at the BAS.

Condensate Drain Blockage:

Install a UL 508 conforming electronic water level monitoring device in the secondary drain line to automatically shut off the equipment served in the event the primary drain line becomes restricted. Upon detection of an obstruction in the condensate drain line, the unit shall shutdown and an alarm shall be annunciated at the BAS operator console. If the condensate switch is located outside of the unit casing, the sensor shall be provided with a completely weatherproof, easily accessible enclosure.

Building Pressure Control (Relief Air):

After the fan startup delay expires, building static pressure shall be controlled by modulating the outside air damper. As building pressure increases over the building pressure setpoint (adj.), the damper shall modulate closed. If the building pressure falls below the setpoint, the damper shall modulate open. Maintain positive pressure under within the fire station proper into the apparatus bay.

REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

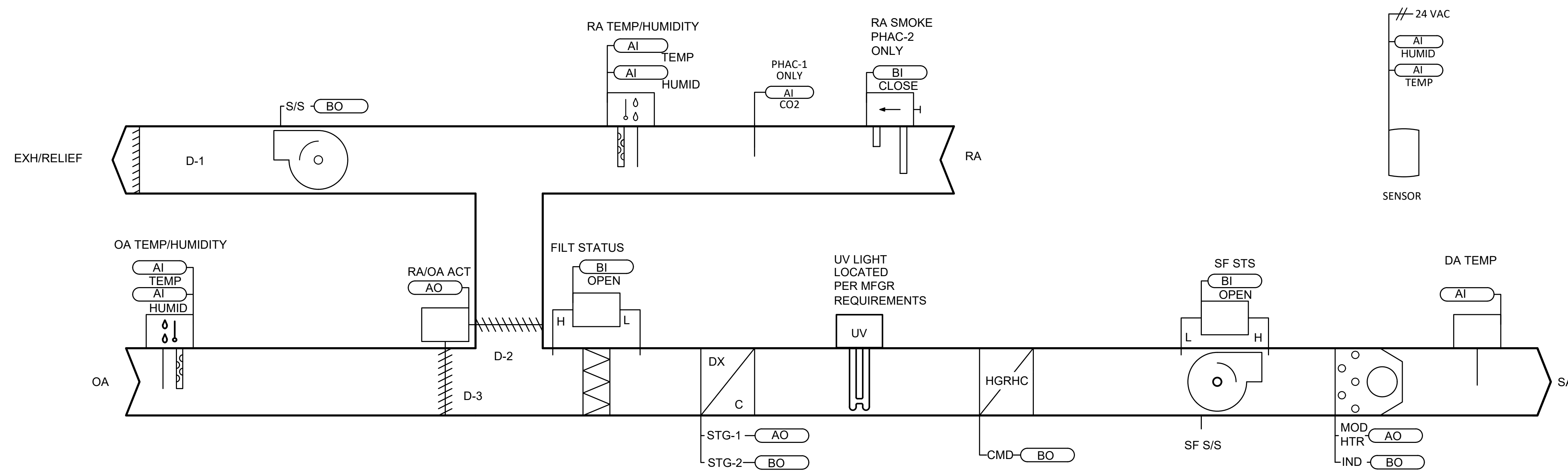
MGM Project No. SP-5-21
BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

Drawing Title:
HVAC CONTROLS

Sheet No:

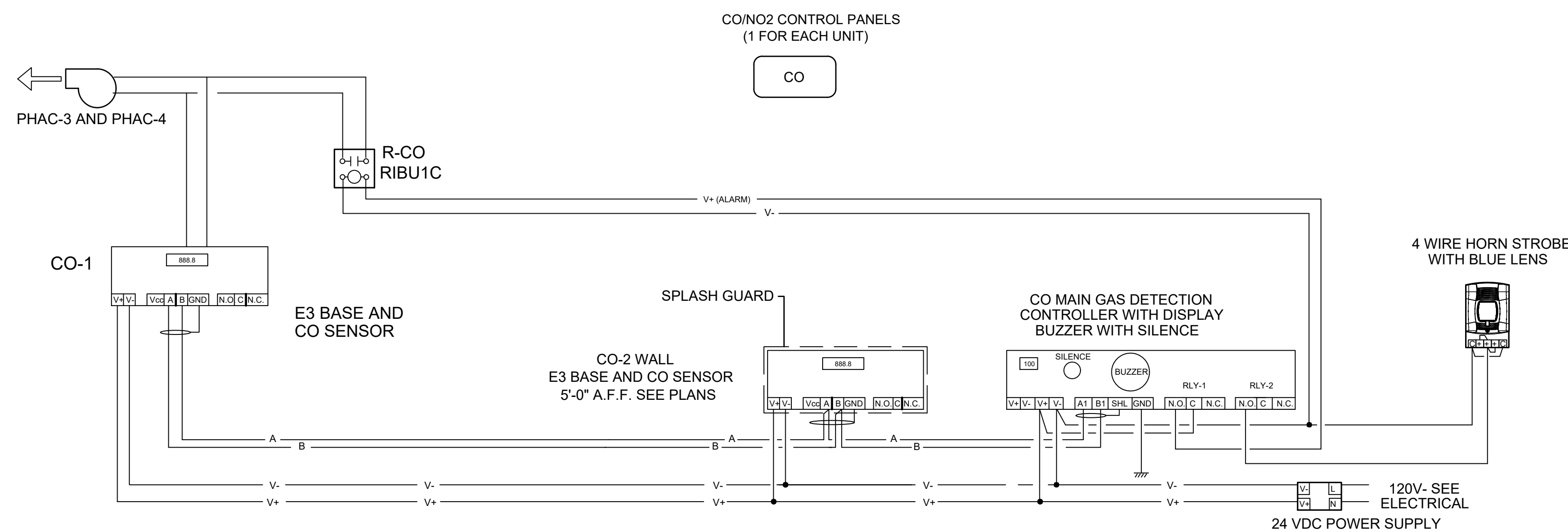
M7

CONFORMANCE
DOCUMENTS



PACKAGED ROOFTOP UNIT (PHAC-3 and PHAC-4) CONTROL SCHEMATIC

NOT TO SCALE



**CARBON MONOXIDE SENSORS AND PHAC-3 AND PHAC-4 CONTROLS SCHEMATIC (APPARATUS BAY)
(NITROGEN DIOXIDE CONTROLS SCHEMATIC SIMILAR)**

NOTES:

1. SCHEMATIC IS DIAGRAMMATIC AND IS SHOWN FOR GENERAL INFORMATIONAL PURPOSES AND INTENT OF OPERATION. CONTROLS SUBCONTRACTOR SHALL PROVIDE INSTALLATION AS REQUIRED FOR THE ACTUAL CO/NO2 SYSTEM PROVIDED AND AS REQUIRED TO COMPLETE THE SPECIFIED SEQUENCE OF OPERATION
2. REFER TO PLANS AT PHAC-3 AND PHAC-4 FOR LOCATIONS OF SPACE AND RETURN AIR MOUNTED CO AND NO2 DUCT SENSORS

PHAC-3 AND PHAC-4 UNITS AND APPARATUS BAY CARBON MONOXIDE (CO) AND NITROGEN DIOXIDE (NO2) MONITORING SYSTEM SEQUENCE OF OPERATION

BASIC SEQUENCE OF OPERATION SHALL BE AS SPECIFIED FOR PHAC UNITS WITH ADDITIONS SPECIFIED BELOW

UNIT ENABLE:

PHAC-3 AND PHAC-4 ARE PROVIDING CONDITIONED AIR TO THE APPARATUS BAY.

THE BAS SHALL MONITOR ALL CO/NO2 MONITORING POINTS AND ALARMS, ALL OF WHICH SHALL BE SHOWN AT THE BAS OPERATOR CONSOLE. PRIOR TO BID, COORDINATE REQUIREMENTS WITH CO/NO2 MONITORING SYSTEM PROVIDED.

OCCUPIED MODE:
SYSTEM IS OCCUPIED 24/7/365

SYSTEMS SHALL RUN CONTINUOUSLY. HEATING, COOLING AND HUMIDITY SETPOINTS SHALL BE AS SET BY THE INDIVIDUAL UNIT THERMOSTAT/HUMIDISTAT OR THROUGH THE BAS OPERATOR'S CONSOLE. ANYTIME SPACE OR DUCT MOUNTED CO SENSORS OR NO2 SENSORS INDICATE CO LEVELS OR NO2 LEVELS ARE ABOVE MANDATED VALUES, OR UPON THE OPENING OF ANY ROLL UP DOOR IN THE APPARATUS BAY, PHAC-3 AND PHAC-4 SHALL AUTOMATICALLY REVERT TO 100% OUTSIDE AIR/ECONOMIZER MODE AND OPERATE UNTIL LEVELS ARE BELOW EPA AND ASHRAE MANDATED LEVELS, OR ANY ROLLUP DOORS HAVE CLOSED. INITIAL CO LEVEL SETPOINT SHALL BE 20 PPM (PARTS PER MILLION WITH 8 HOUR TIME WEIGHTED AVERAGE). INITIAL NO2 LEVEL SETPOINT SHALL BE 75 PPB (PARTS PER BILLION) FOR 1 HOUR. IF CO AND NO2 SENSORS DETECT LEVELS OF CONCENTRATION HIGHER THAN SPECIFIED, THE CO/NO2 CONTROL PANEL SHALL SEND AN ALARM SIGNAL TO THE BAS OPERATOR CONSOLE.

UPON REDUCTION OF THE CO AND NO2 CONCENTRATION BELOW THE SPECIFIED LIMITS, OR THE CLOSING OF THE ROLLUP DOORS, PHAC-3 AND PHAC-4 SHALL RETURN TO THEIR PREVIOUS OPERATIONAL STATUS.

THE CONTROLS SUB-CONTRACTOR SHALL PROVIDE THE SEQUENCE OF OPERATION ABOVE AS AN ADDITIONAL FAIL SAFE REQUIREMENT SHOULD THE SPECIFIED SEQUENCE BE MODIFIED BY ANY PERSON(S) TO NOT OPERATE CONTINUOUSLY AFTER THE OWNER TAKES POSSESSION OF THE FACILITY. I.E. SHOULD OWNER DISABLE CONTINUOUS OPERATION, ALL OF THE REQUIREMENTS OF THE SEQUENCE AS THEY RELATE TO THE SPACE CO AND NO2 SENSORS SHALL REMAIN IN EFFECT. DO NOT OVERRIDE SENSOR REQUIREMENTS/CONTROLS.

PACKAGED ROOFTOP HEATING AND AIR CONDITIONING UNITS PHAC-3 AND PHAC-4 SEQUENCE OF OPERATION

Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied Bypass, Occupied Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints. This facility operates 24/7/365.25. No unoccupied requirements are necessary

Occupied Mode:

During occupied periods, the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The DX cooling shall stage and gas heat shall modulate to maintain the occupied space temperature setpoint. If economizing is enabled the outside air damper shall modulate to maintain the occupied space temperature setpoint.

Optimal Stop:

Not required. The system operates 24/7/365.25

Occupied Bypass:

Not required. The system operates 24/7/365.25

Cooling Mode:

The unit controller shall use the space temperature sensor and space temperature cooling setpoint to calculate the discharge air cooling setpoint and determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by modulating the economizer or staging the DX cooling as required to maintain the discharge air setpoint. Once all economizing requirements have been met, compressor operation will be enabled if the economizer alone cannot meet the demand. Once compressor operation is started, the variable speed compressor will be modulated to maintain the discharge air temperature to the active discharge air cooling setpoint. If the variable speed compressor reaches its maximum speed for stage one, and there is additional demand for cooling, the controller will energize the first fixed speed compressor on circuit two. Once the first fixed speed compressor is energized, the variable compressor speed will be reduced to its minimum speed, then released back to discharge air temperature control. Additional stages will respond in the same manner. Once the active cooling demand has been satisfied, compressors will begin staging down in reverse order from the stage up sequence. Once the unit has staged down all fixed compressors, and there is no longer a demand for the variable speed compressor, the compressor will modulate down to its minimum speed and then will be de-energized, while adhering to all shutdown requirements.

Heating Mode:

The unit controller shall monitor space temperature and space temperature heating setpoint to determine when to initiate requests for heat. When the space temperature drops below the space temperature heating setpoint, the controller shall enable the modulating heat bank at high fire for 60 seconds, then the controller shall modulate the heat bank to the necessary rate to satisfy the space temperature heating setpoint. The supply fan speed shall vary to meet zone heating requirements in conjunction with the heat bank output. Once the space temperature rises above the setpoint, the heating cycle shall be disabled.

Dehumidification:

Factory installed hot gas reheat, as applicable, shall allow application of dehumidification. Dehumidification shall be allowed only when the outside air temperature is above 40.0 deg. F and below 100.0 deg. F. The economizer outside air damper shall drive to minimum position during dehumidification.

On a call for dehumidification shall energize and both compressors shall enable. When the humidity control setpoint is satisfied, the valve shall be de-energized and both compressors shall be disabled. If there is a call for 1st stage cooling while in the dehumidification mode, no action shall take place. If there is a call for 2nd stage cooling, the reheat valve shall be de-energized, and the unit shall revert to the cooling mode. If 2nd stage cooling is satisfied and there is still a call for dehumidification, the hot gas reheat coil valve shall once again be energized.

Economizer Control / Comparative Enthalpy:

The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall modulate between its minimum position and 100% to maintain the space temperature setpoint. Minimum position shall be calculated based on supply fan speed. If the supply air temperature starts to fall below supply air temperature setpoint, the outdoor damper shall be at minimum position. Compressors shall be delayed from operating until the economizer has opened to 100% for 5 minutes.

Comparative Enthalpy:

Outside air enthalpy shall be compared with return air enthalpy point. The economizer shall be enabled when outdoor air enthalpy is less than return air enthalpy - 3.0 BTU/LB. The economizer shall be disabled when outdoor air enthalpy is greater than return air enthalpy.

Demand Control Ventilation (DCV) PHAC-1 Only:

As the supply fan speed command varies between minimum and maximum, the Building Design and DCV Minimum Position Targets shall be calculated linearly between the user selected setpoints based on the instantaneous supply fan speed. The Bldg. Design and DCV Minimum Position Targets will be used to calculate the Active OA Damper Minimum Position Target based on CO2 levels relative to the active Design and DCV CO2 setpoints.

The Design Minimum and DCV Minimum OA Damper Position setpoints shall have a range of 0-100% while the Design Minimum and DCV Minimum OA Damper Position setpoints at Full fan speed shall have a range of 0-50%.

Smoke Detector Shutdown (PHAC-2):

The unit shall shut down in response to a signal from the smoke detector indicating the presence of smoke. A signal shall be sent to the fire alarm panel in the facility. The smoke detectors shall be interlocked to the unit through the dry contacts of the smoke detectors and alarm at the BAS operator console. A manual reset of the smoke detectors shall be required to restart the unit. Upon resetting of the unit smoke detector the unit shall return to its normal, occupied sequence of operation. Prior to bid, coordinate all requirements with the Electrical Contractor, Mechanical Contractor and the Fire Alarm Contractor and provide as required to accomplish the specified sequence of operation.

Filter Status:

A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be announced at the BAS.

Condensate Drain Blockage:

Install a UL 508 conforming electronic water level monitoring device in the auxiliary drain port to automatically shut off the equipment served in the event the primary drain line becomes restricted. Upon detection of an obstruction in the condensate drain line, the unit shall shutdown and an alarm shall be announced at the BAS operator console. If the condensate switch is located outside of the unit casing, the sensor shall be provided with a completely weatherproof, easily accessible enclosure.

Building Pressure Control (Relief Air):

After the fan startup delay expires, building static pressure shall be controlled by modulating the outside air damper. As building pressure increases over the building pressure setpoint (adj.), the damper shall modulate closed. If the building pressure falls below the setpoint, the damper shall modulate open. Maintain positive pressure from within the fire apparatus bay.



REVISIONS		
No.	Description	Date
1	Construction Documents	02-03-2023
2	Conformance Documents	05-17-2023

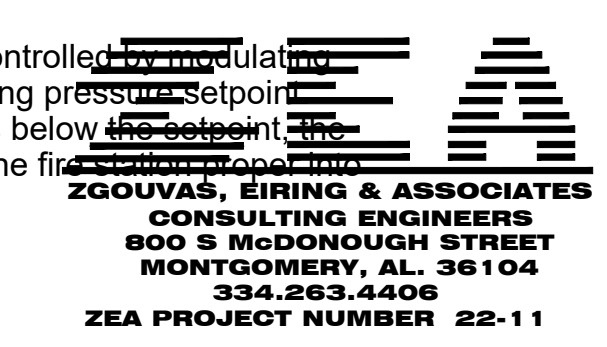
MGM Project No.	SP-5-21
BDW Project No.	2021-118
ZEA Project No.	2022-11
Drawn By:	C. WARD
Date:	05.17.2023
Scale:	AS NOTED

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HVAC CONTROLS

Sheet No:

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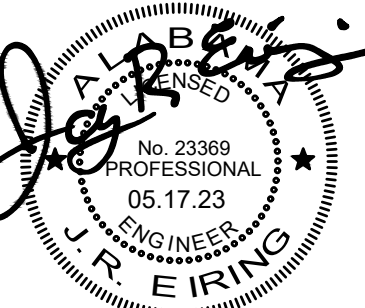
CONFORMANCE DOCUMENTS



PHAC-1, PHAC-2, PHAC-3 AND PHAC-4 POINTS LIST

PHAC-1 AND PHAC-2 SYSTEM POINTS LIST															
SYSTEM POINT DESCRIPTION	POINT TYPE						ALARMS						DIAGNOSTICS	NOTES	
	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWARE INTERLK	WIRELESS NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL			COMMUNICATION FAIL
DISCHARGE AIR TEMPERATURE LOCAL	X	AI					X	X			X			SENSOR FAILURE	
MIXED AIR TEMPERATURE LOCAL	X	AI					X	X			X			SENSOR FAILURE	
RETURN AIR CO2 LOCAL	X	AI					X			X				CO2 SENSOR FAILURE	
SUPPLY FAN AIR FLOW LOCAL	X	AI													
DIRTY FILTER ALARM OPEN	X	BI								X				DIRTY FILTER	
SUPPLY FAN STATUS OPEN	X	BI													
SUPPLY FAN SPEED COMMAND	X		AO												
SUPPLY FAN START STOP COMMAND	X		BO												
OCCUPIED COOLING SETPOINT (ADJ)				X		74.0 deg. F									
OCCUPIED HEATING SETPOINT (ADJ)				X		70.0 deg. F									
UNOCCUPIED COOLING SETPOINT (ADJ)				X		78.0 deg. F									
UNOCCUPIED HEATING SETPOINT (ADJ)				X		67.0 deg. F									
BAS COMMUNICATION STATE	X			X								X			NOTE 1
MAINTENANCE REQUIRED				X		600 HRS									
UV LIGHTS MAINTENANCE REQUIRED				X		365 DAYS									
GENERAL NOTES															
1. DISPLAYED AT THE BAS USER INTERFACE IF PRESENT															
2. POINTS SHALL BE AS SHOWN ON SCHEMATIC AND THIS TABLE															
3. INCLUDE POINTS AS REQUIRED PER THE SEQUENCE OF OPERATION AND FOR MONITORING OF CO/NO2 SENSORS AND ALL AVAILABLE POINTS FROM CO/NO2 PANELS															

PHAC-3 AND PHAC-4 SYSTEM POINTS LIST															
SYSTEM POINT DESCRIPTION	POINT TYPE						ALARMS						DIAGNOSTICS	NOTES	
	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWARE INTERLK	WIRELESS NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL			COMMUNICATION FAIL
DISCHARGE AIR TEMPERATURE LOCAL	X	AI					X	X			X			SENSOR FAILURE	
MIXED AIR TEMPERATURE LOCAL	X	AI					X	X			X			SENSOR FAILURE	
RETURN AIR CO2 LOCAL	X	AI					X			X				CO2 SENSOR FAILURE	
SUPPLY FAN AIR FLOW LOCAL	X	AI													
DIRTY FILTER ALARM OPEN	X	BI								X				DIRTY FILTER	
SUPPLY FAN STATUS OPEN	X	BI													
SUPPLY FAN SPEED COMMAND	X		AO												
SUPPLY FAN START STOP COMMAND	X		BO												
OCCUPIED COOLING SETPOINT (ADJ)				X		74.0 deg. F									
OCCUPIED HEATING SETPOINT (ADJ)				X		70.0 deg. F									
UNOCCUPIED COOLING SETPOINT (ADJ)				X		78.0 deg. F									
UNOCCUPIED HEATING SETPOINT (ADJ)				X		67.0 deg. F									
BAS COMMUNICATION STATE	X			X								X			NOTE 1
MAINTENANCE REQUIRED				X		600 HRS									
UV LIGHTS MAINTENANCE REQUIRED				X		365 DAYS									
GENERAL NOTES															
1. DISPLAYED AT THE BAS USER INTERFACE IF PRESENT															
2. POINTS SHALL BE AS SHOWN ON SCHEMATIC AND THIS TABLE															
3. INCLUDE POINTS AS REQUIRED PER THE SEQUENCE OF OPERATION AND FOR MONITORING OF CO/NO2 SENSORS AND ALL AVAILABLE POINTS FROM CO/NO2 PANELS															



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
1.	Construction Documents	02-03-2023
2.	Conformance Documents	05-17-2023

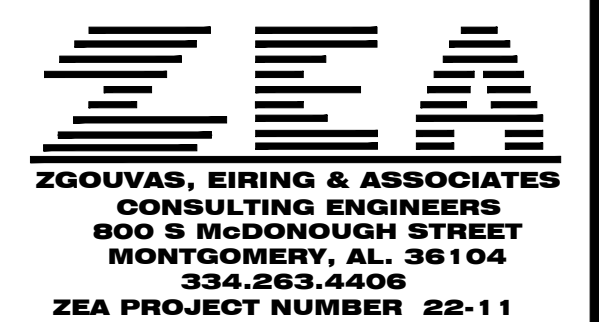
MGM Project No. SP-5-21
BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

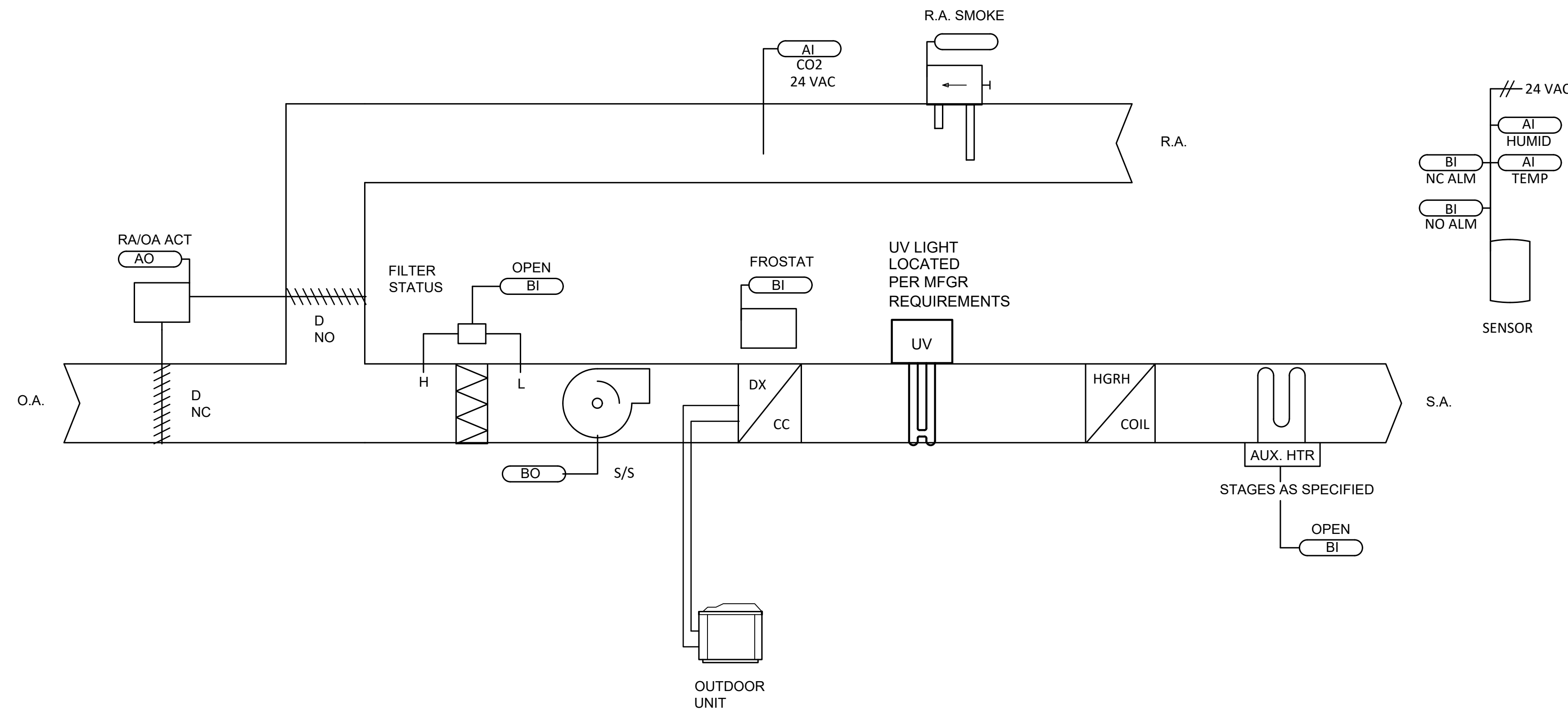
Drawing Title:
HVAC CONTROLS

Sheet No:

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CONFORMANCE
DOCUMENTS





SPLIT SYSTEM HEAT PUMP UNIT WITH DEMAND CONTROL VENTILATION & HOT GAS REHEAT COIL CONTROLS SCHEMATIC (HP-A)

NOT TO SCALE

Split System Heat Pump Unit HP-A With Demand Ventilation & Hot Gas Reheat Coil Sequence of Operation

Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied Bypass, Occupied Heat / Cool modes. If communication is lost with the BAS, the controller shall operate using default modes and Setpoints. The supply air fan shall be started only upon satisfaction of all safeties, upon a call from the BAS or the individual thermostats/sensors override. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall stop, requiring a manual reset.

Smoke Detector Shutdown:

The unit shall shut down in response to a signal from the smoke detector in the return air ducts indicating the presence of smoke. The smoke detectors shall be interlocked to the unit through the dry contacts of the smoke detector. A manual reset of the smoke detector shall be required to restart the unit. Coordinate the quantity of smoke detectors required with the plans. Smoke detectors are furnished and wired by Division 16. Installation into the duct by the Mechanical Contractor. Coordinate all prior to bid and provide as specified.

Occupied Mode:

During occupied periods, the supply fan shall run, the normally closed (NC) outside air damper and normally open (NO) return air damper(s) shall open to their respective setpoints to provide for their minimum scheduled outside air setpoint. The heat pump DX cooling or heating cycle shall stage to maintain the occupied space temperature setpoint.

Unoccupied Mode:

When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start, the NC outside air damper shall remain closed, the NO return air damper (as applicable) shall remain open and the DX heating cycle shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.), the heating cycle shall be disabled, the supply fan shall stop, the NC outside air damper shall remain closed and the NO return air damper (as applicable) shall remain in its NO position.

When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.), the supply fan shall start, the NC outside air damper shall remain closed, the NO return air damper (as applicable) shall remain open and the DX cooling cycle shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the cooling cycle shall be disabled, the supply fan shall stop, the NC outside air damper shall remain closed and the NO return air damper (as applicable) shall remain open.

Optimal Start:

The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:

During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The NC outside air damper shall remain closed and the NO return air damper shall remain open. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode based on its respective schedule.

Morning Cool-Down/Pre-Cool Mode:

During optimal start, if the space temperature is above the occupied cooling setpoint, the morning cool-down/pre-cool mode shall be activated. When morning cool-down/pre-cool is initiated the unit shall enable the fan and cooling. The NC outside air damper shall remain closed and the NO return air damper (as applicable) shall remain open. When the space temperature reaches the occupied cooling setpoint (adj.), the unit shall transition to the occupied mode based on its respective schedule.

Optimal Stop:

The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass:

The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:

The unit controller shall use space temperature and space temperature setpoint to determine when to initiate requests for cooling. When the space temperature rises above the setpoint, the unit controller shall stage the DX cooling as required to maintain the space temperature setpoint. The first compressor (as applicable) shall energize after its minimum 3-minute off time has expired. If additional cooling capacity is required the second stage (as applicable) of cooling shall be enabled. Once the space temperature falls below the setpoint the compressors shall be deactivated and system returns to its occupied/unoccupied cooling schedule.

Heating Mode:

The unit controller shall use the space temperature and space temperature setpoint to determine when to initiate requests for heat. When the space temperature drops below the setpoint, the unit controller shall enable DX heating stage or the auxiliary heater when ambient temperature is below 35°F (adj.), to maintain the space temperature setpoint. Once the space temperature rises above the setpoint the compressor(s) or auxiliary electric heating stages shall be disabled.

Dehumidification/Humidity Control:

Factory installed hot gas reheat coil shall allow application of dehumidification. Dehumidification shall be allowed only when the outside air temperature is above 40.0 deg. F and below 100.0 deg. F. The outside air damper shall drive to between its minimum and maximum scheduled outside air setpoint based on the CO2 readings during dehumidification.

Dual Compressor Units:

On a call for dehumidification, the hot gas reheat coil valve shall energize and both compressors shall enable. When the humidity control setpoint is satisfied, the valve shall be de-energized and both compressors shall be disabled. If there is a call for 1st stage cooling while in the dehumidification mode, no action shall take place. If there is a call for 2nd stage cooling, the hot gas reheat valve shall be de-energized, and the unit shall revert to the cooling mode. If 2nd stage cooling is satisfied and there is still a call for dehumidification, the hot gas reheat coil valve shall once again be energized and modulate as required to maintain space temperature.

CO2 Control/Demand Ventilation (As Applicable):

The duct mounted CO2 sensor shall modulate the motorized outside air and return air damper(s) in sequence to maintain a minimum concentration of 800 PPM (adj.). Upon satisfaction of the CO2 sensor setpoint, the outside air damper shall return to its minimum scheduled outside air setpoint and the return air damper shall modulate up or down based on the outside air damper requirement.

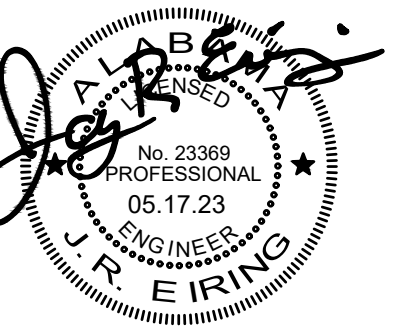
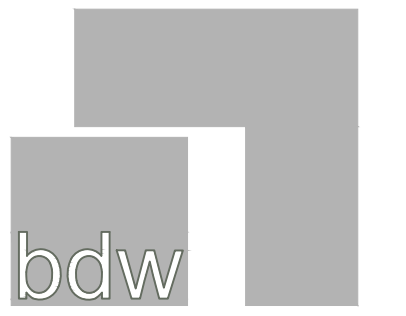
Filter Status:

A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation, a dirty filter alarm shall be annunciated at the BAS.

Condensate Drain Blockage:

Install a UL 508 conforming electronic water level monitoring device in the auxiliary drain port to automatically shut off the equipment served in the event the primary drain line becomes restricted. Upon detection of an obstruction in the condensate drain line, the unit shall shutdown and an alarm shall be annunciated at the BAS operator console. If the condensate switch is located outside of the unit casing, the sensor shall be provided with a completely weatherproof, easily accessible enclosure.

HP-A SYSTEM POINTS LIST																
SYSTEM POINT DESCRIPTION	POINT TYPE							ALARMS						DIAGNOSTICS	NOTES	
	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWARE INTERLK	WIRELESS	NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL			COMMUNICATION FAIL
DISCHARGE AIR TEMPERATURE LOCAL	X	AI							X	X			X		SENSOR FAILURE	
MIXED AIR TEMPERATURE LOCAL	X	AI							X	X			X		SENSOR FAILURE	
RETURN AIR CO2 LOCAL	X	AI							X			X			CO2 SENSOR FAILURE	
SUPPLY FAN AIR FLOW LOCAL	X	AI											X			
DIRTY FILTER ALARM OPEN	X	BI										X			DIRTY FILTER	
SUPPLY FAN STATUS OPEN	X	BI														
SUPPLY FAN SPEED COMMAND	X	AO														
SUPPLY FAN START STOP COMMAND	X	BO														
OCCUPIED COOLING SETPOINT (ADJ)				X				74.0 deg. F								
OCCUPIED HEATING SETPOINT (ADJ)				X				70.0 deg. F								
UNOCCUPIED COOLING SETPOINT (ADJ)				X				78.0 deg. F								
UNOCCUPIED HEATING SETPOINT (ADJ)				X				67.0 deg. F								
BAS COMMUNICATION STATE	X			X									X			NOTE 1
MAINTENANCE REQUIRED				X				600 HRS								
UV LIGHTS MAINTENANCE REQUIRED				X				365 DAYS								
GENERAL NOTES																
1. DISPLAYED AT THE BAS USER INTERFACE IF PRESENT																
2. POINTS SHALL BE AS SHOWN ON SCHEMATIC AND THIS TABLE																



NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS

No.	Description	Date
1	Construction Documents	02-03-2023
2	Performance Documents	05-17-2023

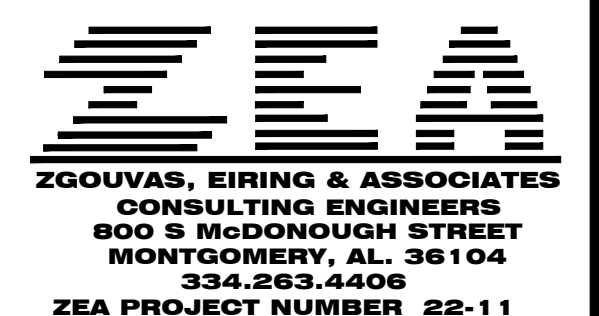
MGM Project No. SP-5-21
BDW Project No. 2021-118
ZEA Project No. 2022-11
Drawn By: C. WARD
Date: 05.17.2023
Scale: AS NOTED

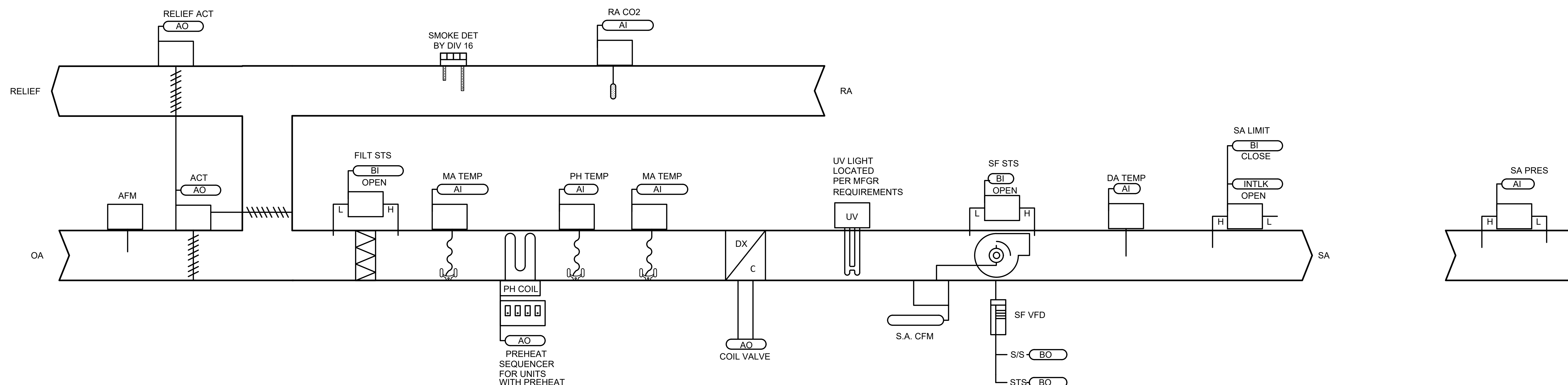
Drawing Title:
HVAC CONTROLS

Sheet No:

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CONFORMANCE
DOCUMENTS





TYPICAL PACKAGED ROOFTOP VAV UNIT HVAC CONTROLS SCHEMATIC (PAC-1 & PAC-2)

NO SCALE

TYPICAL VAV AIR HANDLING UNIT - SYSTEM POINTS LIST															
SYSTEM POINT DESCRIPTION	POINT TYPE							ALARMS					DIAGNOSTICS	NOTES	
	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWARE INTERLK	WIRELESS	NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC			SENSOR FAIL
DISCHARGE AIR TEMPERATURE LOCAL	X	AI						X	X				X	SENSOR FAILURE	
DUCT STATIC PRESSURE LOCAL	X	AI													
MIXED AIR TEMPERATURE LOCAL	X	AI						X	X			X		SENSOR FAILURE	
PREHEAT LEAVING COIL TEMPERATURE LOCAL	X	AI						X	X			X		SENSOR FAILURE	
RETURN AIR CO2 LOCAL	X	AI									X			CO2 SENSOR FAILURE	
SUPPLY FAN AIR FLOW LOCAL	X	AI													
DIRTY FILTER ALARM OPEN	X	BI										X		DIRTY FILTER	
HIGH STATIC ALARM CLOSE	X	BI			X									DUCT STATIC PRESSURE HIGH LIMIT	NOTE 1
LOW LIMIT TEMPERATURE CUTOFF OPEN	X	BI			X						X	X		LOW TEMP DETECT	NOTE 1
SUPPLY FAN STATUS OPEN	X	BI													
REFRIGERANT COIL VALVE COMMAND OUTPUT	X		AO												
MIXED AIR DAMPER	X		AO												
SEQUENCER	X		AO												
SUPPLY FAN SPEED COMMAND	X		AO												
SUPPLY FAN START STOP COMMAND	X		BO												
OCCUPIED COOLING SETPOINT				X				74.0 deg. F							
OCCUPIED HEATING SETPOINT				X				70.0 deg. F							
DISCHARGE AIR TEMPERING SETPOINT				X				55.0 deg. F							
DISCHARGE AIR TEMPERATURE CONTROL POINTS				X											
BAS COMMUNICATION STATE	X		X										X		NOTE 2
MAINTENANCE REQUIRED			X					600 HRS							
UV LIGHTS MAINTENANCE REQUIRED			X					365 DAYS							
HIGH STATIC ALARM CLOSE	X	BI			X									LIGHTS OUT	NOTE 2
UNIVERSAL INPUT(S)		6													
ANALOG OUTPUT(S)			3												
BINARY OUTPUT(S)			3												
GENERAL NOTES															
1. DEVICE IS HARDWARE INTERLOCKED, MANUAL RESET MAY BE REQUIRED															
2. DISPLAYED AT THE BAS USER INTERFACE IF PRESENT															

TYPICAL VAV PACKAGED ROOFTOP UNIT SEQUENCE OF OPERATION

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP/PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED:

DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE CHILLED WATER VALVE SHALL MODULATE AND THE ELECTRIC PREHEAT SHALL STAGE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED, THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE CHILLED WATER VALVE SHALL CLOSE AND ELECTRIC HEAT SHALL BE DISABLED UPON SATISFACTION OF EQUIPMENT SAFETIES, AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS.

UNOCCUPIED:

NOT REQUIRED. SPACES ARE OCCUPIED 24/7/365

SUPPLY FAN:

THE FAN SHALL BE OFF IN THE UNOCCUPIED MODE. WHEN THE UNIT CONTROLLER IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AND ITS SPEED SHALL BE MODULATED TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT. THE DUCT STATIC PRESSURE SETPOINT SHALL BE SENT BY THE BAS AND SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM STATIC PRESSURE LIMITS TO MAINTAIN THE CRITICAL ZONE VAV AIR DAMPER IN A POSITION BETWEEN 65% AND 75% OPEN.

IF THE SUPPLY FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL BE COMMANDED OFF, THE OUTSIDE AIR DAMPER SHALL CLOSE, CHILLED WATER VALVE SHALL CLOSE, ELECTRIC HEAT SHALL BE DISABLED AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FAN. A HARDWIRED, HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE VARIABLE SPEED DRIVE. IF THE HIGH STATIC PRESSURE CUT-OFF SWITCH IS TRIPPED THE FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE, CHILLED WATER VALVE SHALL CLOSE, ELECTRIC HEAT SHALL BE DISABLED AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO RESTART THE FAN.

CO2 / DEMAND CONTROL VENTILATION:

WHEN THE INPUT CO2 CONCENTRATION SETPOINT IN THE RETURN AIR DUCT MAXIMUM SETPOINT OF 700 PPM (ADJ.) IS REACHED, THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL MODULATE IN SEQUENCE AND SHALL START TO MODULATE OPEN TO BRING IN MORE FRESH AIR TO REDUCE THE SPACE CO2 LEVEL. THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE OPEN/CLOSE IN SMALL INCREMENTS UNTIL THE SPACE CO2 LEVEL IS SATISFIED OR THE OUTSIDE AIR DAMPER REACHES THE FULL OPEN POSITION. IF THE INPUT CO2 CONCENTRATION FALLS, THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TOWARD NORMAL OPERATION. IF THE MIXED AIR TEMPERATURE DROPS BELOW THE MIXED AIR LOW LIMIT SETPOINT, THE SPACE CO2 SENSOR INPUT IS OVERRIDDEN AND MODULATES THE OUTSIDE AIR DAMPER CLOSED AND THE RETURN AIR DAMPER OPEN TO MAINTAIN THE MIXED AIR TEMPERATURE LOW LIMIT SETPOINT. WHEN THE MIXED AIR TEMPERATURE RISES ABOVE THE MIXED AIR LOW LIMIT SETPOINT, CO2 OPERATION IS ONCE AGAIN RESTORED.

MIXED AIR LOW LIMIT:

THE INITIAL DAMPER OPENING RATE SHALL BE LIMITED TO 2% PER MINUTE (ADJ.) UNTIL THE DAMPER HAS REACHED ITS MINIMUM VENTILATION POSITION. THE OUTSIDE AIR DAMPER SHALL MODULATE TO A POSITION LESS THAN THE MINIMUM DAMPER POSITION IF THE MIXED AIR TEMPERATURE DROPS BELOW 50.0 DEG. F (ADJ.). IF THE MIXED AIR TEMPERATURE SENSOR FAILS AN ALARM SHALL BE ANNUNCIATED AT THE BAS OPERATOR CONSOLE AND THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.

FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSURES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.

SMOKE DETECTOR SHUTDOWN:

THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM EITHER SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTORS SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTORS. A MANUAL RESET OF THE SMOKE DETECTORS SHALL BE REQUIRED TO RESTART THE UNIT.

BUILDING PRESSURE CONTROL:

A DIFFERENTIAL PRESSURE TRANSDUCER SHALL ACTIVELY MONITOR THE DIFFERENCE IN PRESSURE BETWEEN THE BUILDING (INDOORS) AND OUTDOORS. IF THE BUILDING PRESSURE INCREASES ABOVE THE DESIRED SETPOINT, THE AHU CONTROLLER SHALL TURN ON THE EXHAUST FAN AND MODULATE THE UNIT EXHAUST FAN VFD TO CONTROL BUILDING PRESSURE AT SETPOINT. IF THE BUILDING PRESSURE DECREASES BELOW THE DESIRED SETPOINT, THE CONTROLLER SHALL TURN OFF THE EXHAUST FAN.

CONDENSATE DRAIN BLOCKAGE:

INSTALL A UL 508 CONFORMING ELECTRONIC WATER LEVEL MONITORING DEVICE IN THE AUXILIARY DRAIN PORT TO AUTOMATICALLY SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED. UPON DETECTION OF AN OBSTRUCTION IN THE CONDENSATE DRAIN LINE, THE UNIT SHALL SHUTDOWN AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS OPERATOR CONSOLE. IF THE CONDENSATE SWITCH IS LOCATED OUTSIDE OF THE UNIT CASING, THE SENSOR SHALL BE PROVIDED WITH A COMPLETELY WEATHERPROOF, EASILY ACCESSIBLE ENCLOSURE.

NEW FIRE STATION NO. 10
FOR
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SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

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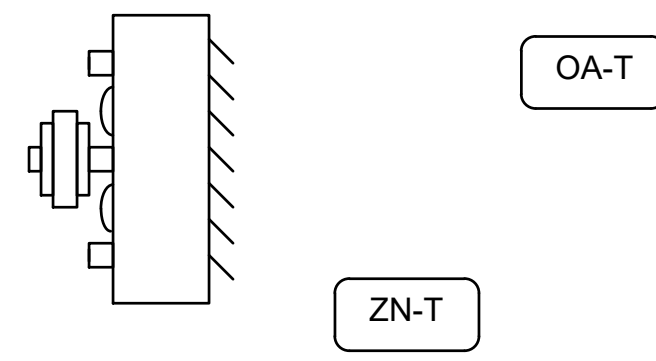
MGM Project No. SP-5-21
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ZEA Project No. 2022-11
Drawn By: C. WARD
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Scale: AS NOTED

Drawing Title:
HVAC CONTROLS

Sheet No:

M11

CONFORMANCE
DOCUMENTS



TYP. UNIT HEATERS CONTROL SEQUENCES

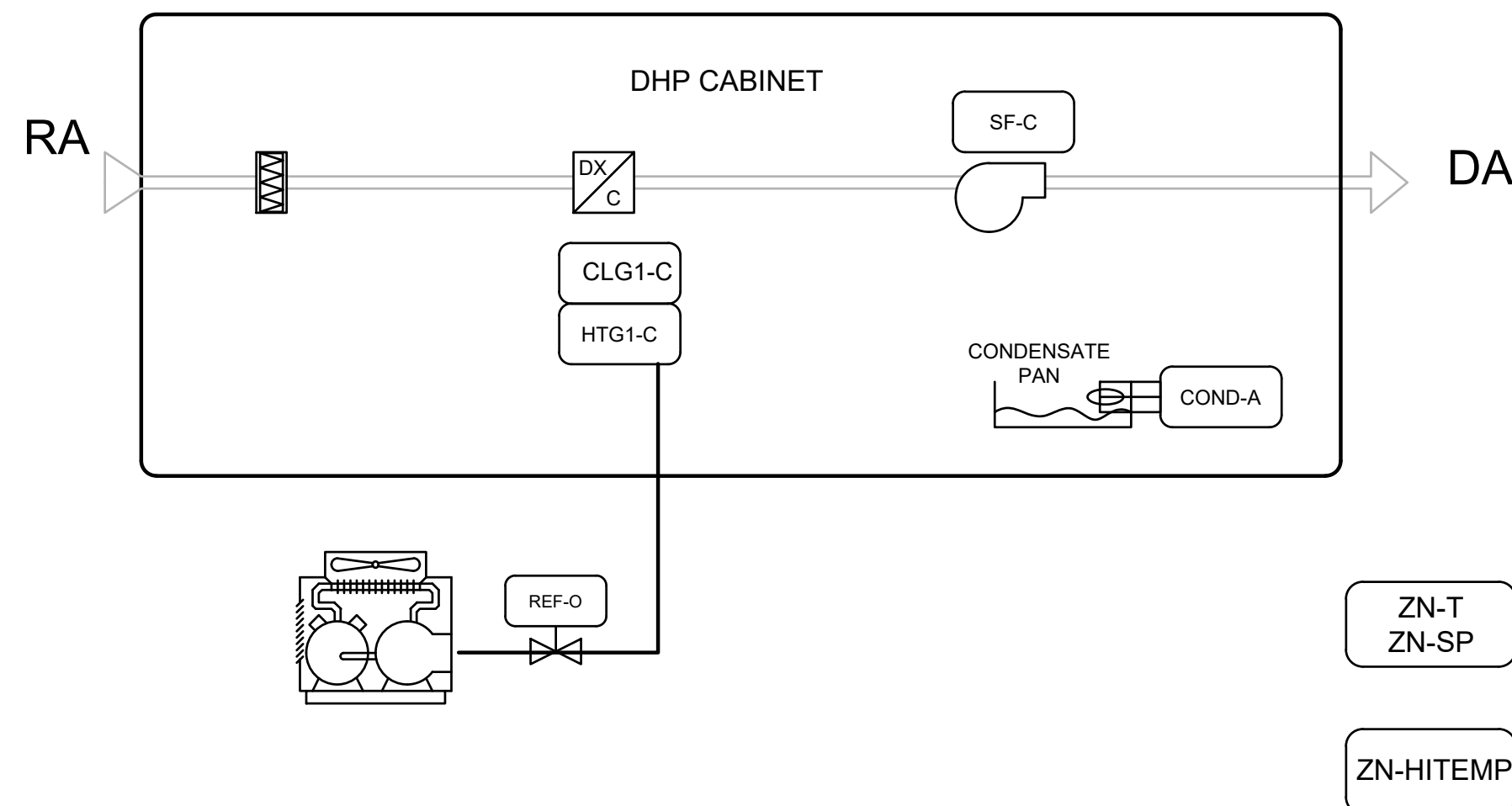
SEQUENCE OF OPERATION:

THE BAS WILL ENERGIZE THE ELECTRIC HEATING ELEMENT WHENEVER THE SPACE TEMPERATURE DROPS BELOW SETPOINT. A SEPARATE OUTSIDE AIR THERMOSTAT SHALL LOCK-OUT THE HEATER WHEN THE OA-T IS AT 68 DEG F ADJUSTABLE. THE UNIT IS SUBJECT TO THE "UNIT HEATER MASTER ENABLE/DISABLE POINT" AND THE OUTSIDE AIR TEMPERATURE (ADJ.)

PROVIDE A SPACE LOW LIMIT SENSOR. SHOULD TEMPERATURE FALL BELOW THE LOW LIMIT SETPOINT OF 50°F (ADJ.) AN ALARM SHALL BE SENT TO THE BAS OPERATORS CONSOLE

UNIT HEATERS CONTROL POINTS

TYPE	NAME	DESCRIPTION	SIGNAL
BO	HTG1-C	HEATING STAGE 1 COMMAND	24VAC MAINTAINED
AI	ZN-SP	ZONE SETPOINT	SAB
AI	ZN-T	ZONE TEMPERATURE	SAB



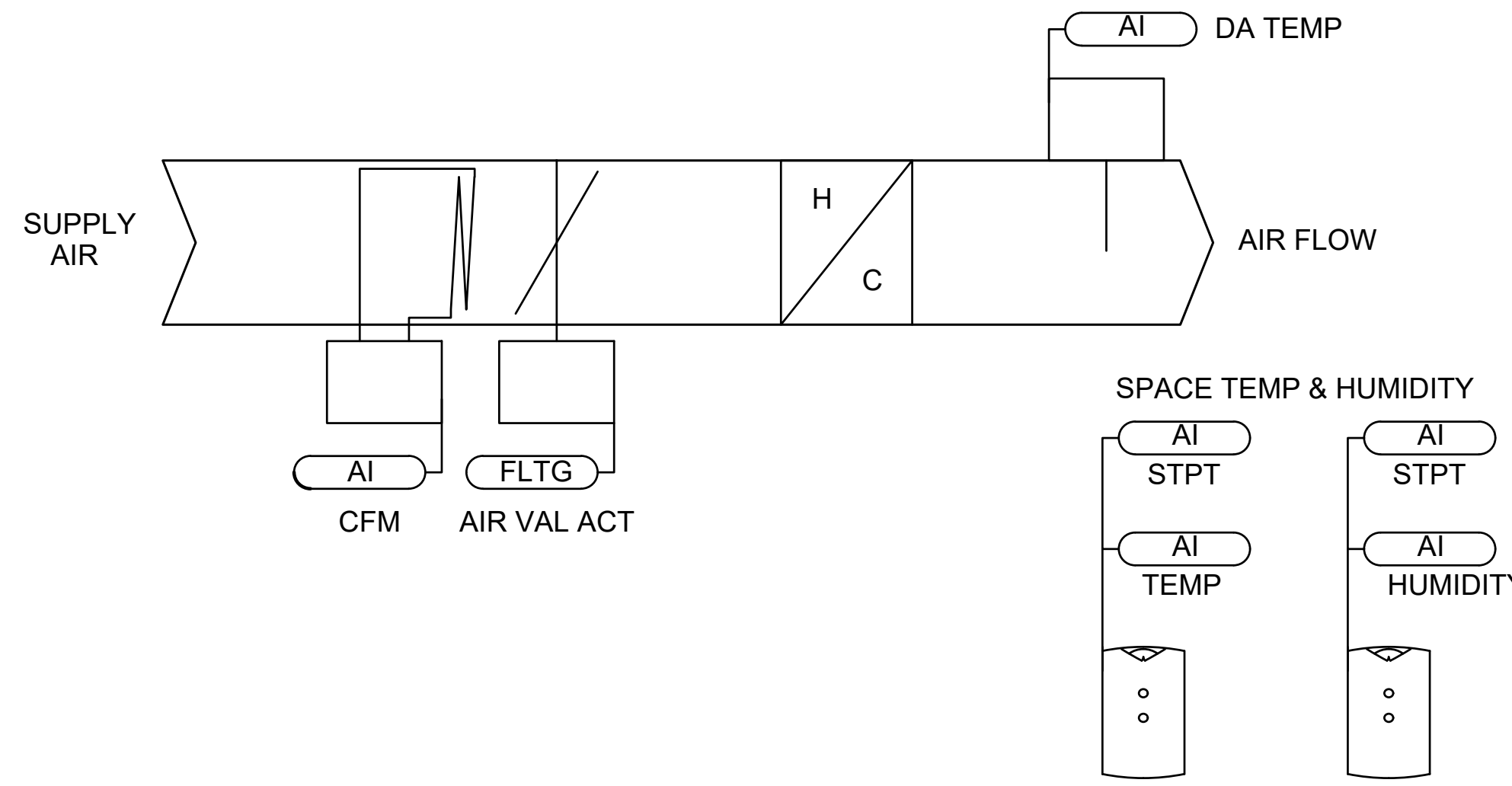
DHP/CCHP TYPICAL LAYOUT

1. THE ABOVE DRAWING IS REPRESENTATIVE OF A TYPICAL SYSTEM. SEE PLANS FOR QUANTITY AND LOCATION OF INDOOR AND OUTDOOR UNITS
2. CONTROL CONTRACTOR TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR SYSTEM OPERATION, INCLUDING COMMUNICATION WIRING BETWEEN INDOOR, OUTDOOR UNITS, VRF ZONE SENSOR AND COMMUNICATION WIRING TO INTERFACE VRF SYSTEM WITH CONTROL SYSTEM.
3. CONTROL CONTRACTOR TO MAP IN ALL AVAILABLE POINTS FROM THE SYSTEM FOR USE BY THE OWNER.

DHP/CCHP TYPICAL SEQUENCE OF OPERATION

THE BAS SHALL MONITOR AND CONTROL THE STATUS OF THE INDOOR UNITS AS WELL AS THEIR ASSOCIATED ZONE TEMPERATURE. IF ANY UNITS GO INTO ALARM AND/OR THEIR ZONE TEMPERATURE EXCEEDS THE SETPOINT FOR MORE THAN FIVE MINUTES THE BAS WILL SEND AN ALARM TO THE OPERATOR.

WHEN THE CONDENSATE FLOAT SWITCH IS IN "ALARM", THE COOLING CONTROL SEQUENCE WILL BE DISABLED, THE UNIT(S) WILL BE DISABLED AND AN ALARM SHALL BE SENT TO THE BAS OPERATOR CONSOLE



VAV TERMINAL UNITS WITH ELECTRIC REHEAT CONTROLS SCHEMATIC

NO SCALE

VAV TERMINAL UNITS WITH ELEC REHEAT SEQUENCE OF OPERATION

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED AND UNOCCUPIED COMMANDS. THE BAS MAY ALSO SEND A HEAT/COOL MODE, PRIORITY SHUTDOWN COMMANDS, SPACE TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT. IF COMMUNICATION IS LOST WITH THE BAS, THE VAV CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

OCCUPANCY MODE:

THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE CONTROLLER VIA A BINARY INPUT. VALID OCCUPANCY MODES FOR THE UNIT SHALL BE:

OCCUPIED:

NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

UNOCCUPIED:

NO UNOCCUPIED REQUIREMENT. THE FACILITY IS OPERATIONAL 24/7/365.

HEAT/COOL MODE:

THE HEAT/COOL MODE SHALL BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE VAV. IN STANDALONE OR AUTO MODE THE VAV SHALL COMPARE THE PRIMARY AIR TEMPERATURE WITH THE CONFIGURED AUTO CHANGEOVER SETPOINT TO DETERMINE IF THE AIR IS "HOT" OR "COLD". HEATING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS HOT. COOLING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS COLD.

HEAT/COOL SETPOINT:

THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL SETPOINT, THE VAV DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.

COOLING MODE:

WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.

HEATING MODE:

WHEN THE UNIT IS IN HEATING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE HEATING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM HEATING AIRFLOW SETPOINT. THE VAV CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE REQUESTED HEATING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING CAPACITY.

REHEAT CONTROL:

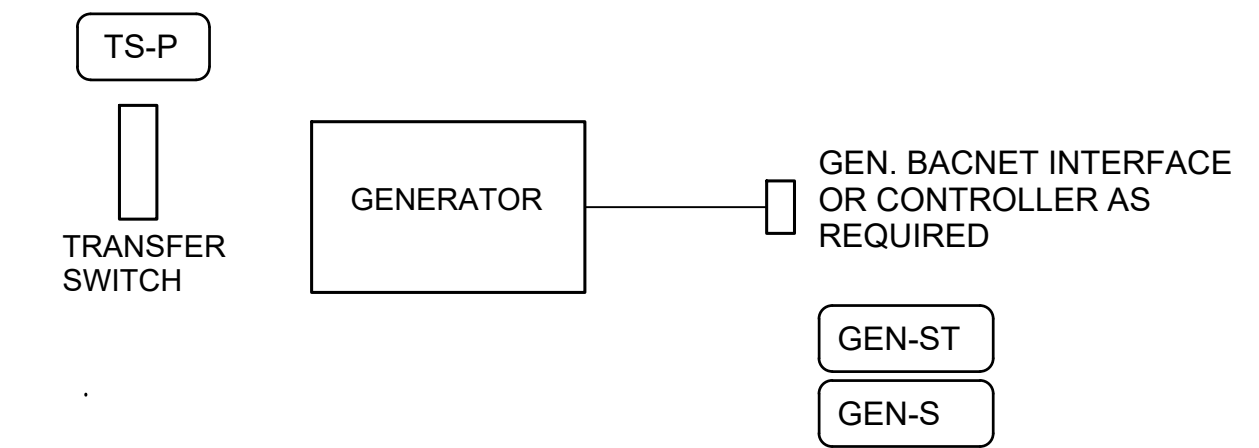
REHEAT WILL ONLY BE ALLOWED WHEN THE PRIMARY AIR TEMPERATURE IS 5.0 DEG. F BELOW THE CONFIGURED REHEAT ENABLE SETPOINT. THE REHEAT SHALL BE ENABLED WHEN THE SPACE TEMPERATURE DROPS BELOW THE ACTIVE HEATING SETPOINT AND THE MINIMUM AIRFLOW REQUIREMENTS ARE MET OR FOR HUMIDITY CONTROL. DURING REHEAT THE VAV SHALL OPERATE AT ITS MINIMUM HEATING AIRFLOW SETPOINT AND ENERGIZE THE HEAT AS FOLLOWS:

PROPORTIONAL ELECTRIC REHEAT:

IF THE SPACE TEMPERATURE IS BELOW THE HEATING SETPOINT THE SCR HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN THE ACTIVE HEATING SETPOINT OR HUMIDITY SETPOINT.

SPACE SENSOR FAILURE:

IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE

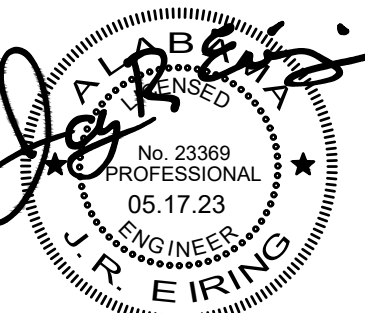


EMERGENCY GENERATOR CONTROL SCHEMATIC

TYPE	NAME	DESCRIPTION	SIGNAL
BI	TS-P	TRANSFER SWITCH POSITION	DRY CONTACT MAINTAINED
BI	GEN-ST	GENERATOR STATUS	DRY CONTACT MAINTAINED
BO	GEN-S	GENERATOR COMMAND	DRY CONTACT MAINTAINED

1. BAS SHALL MONITOR ALL POINTS PROVIDED BY THE GENERATOR MFR. BACNET INTERFACE.

EMERGENCY GENERATOR CONTROL POINTS



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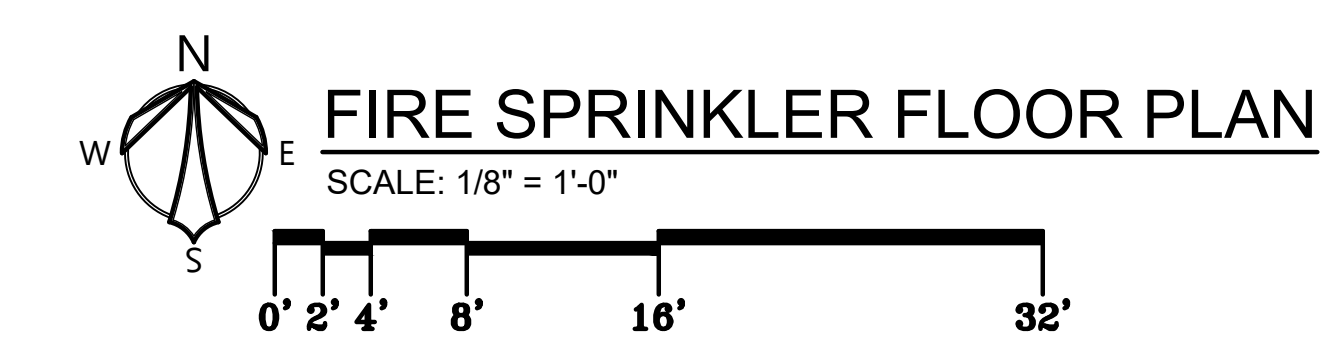
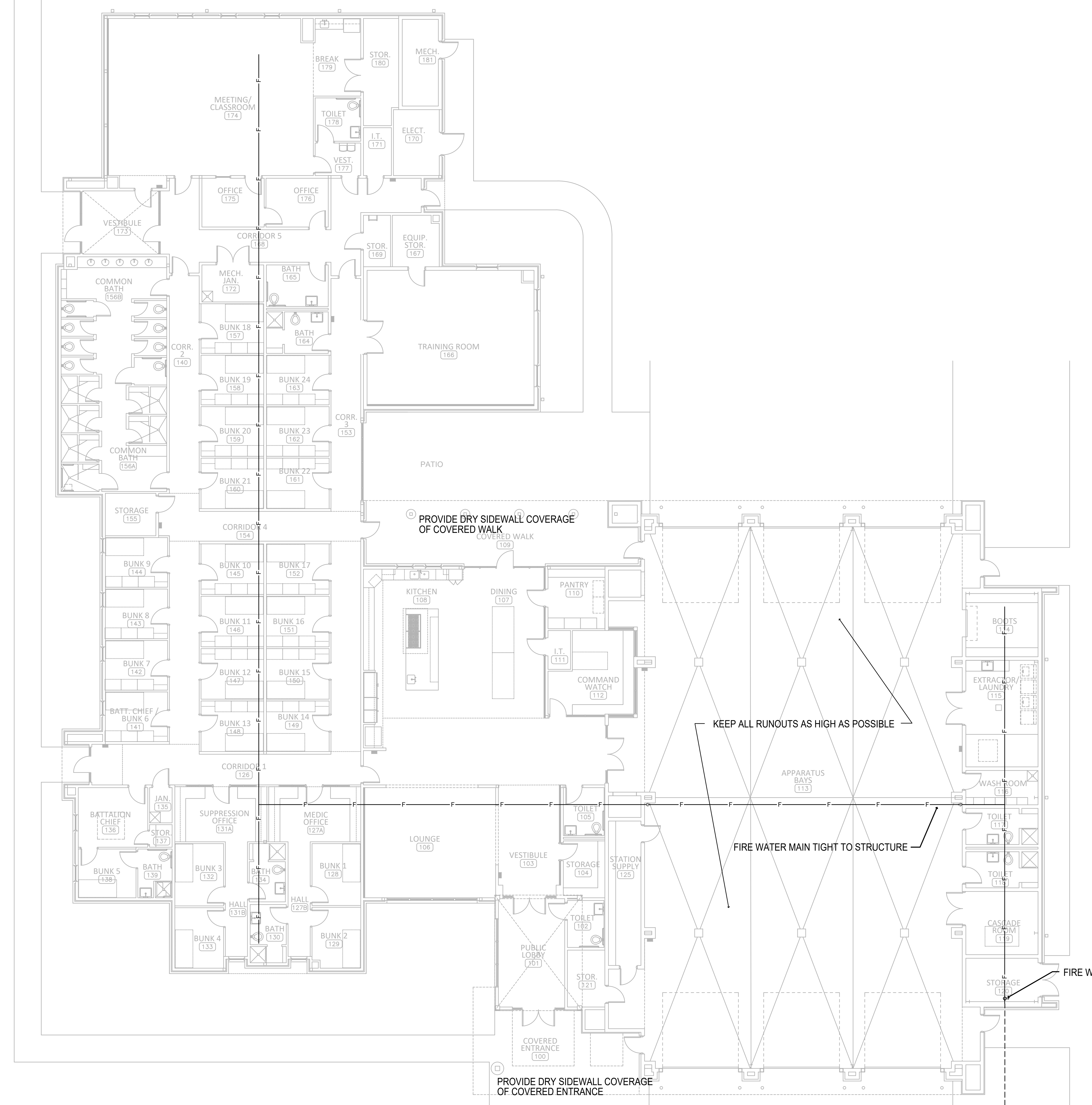
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HVAC CONTROLS

Sheet No:

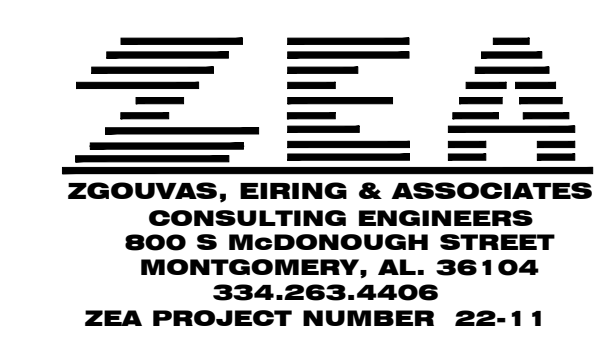
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**NEW FIRE STATION NO. 10
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SOUTH COURT STREET MONTGOMERY, ALABAMA 36104



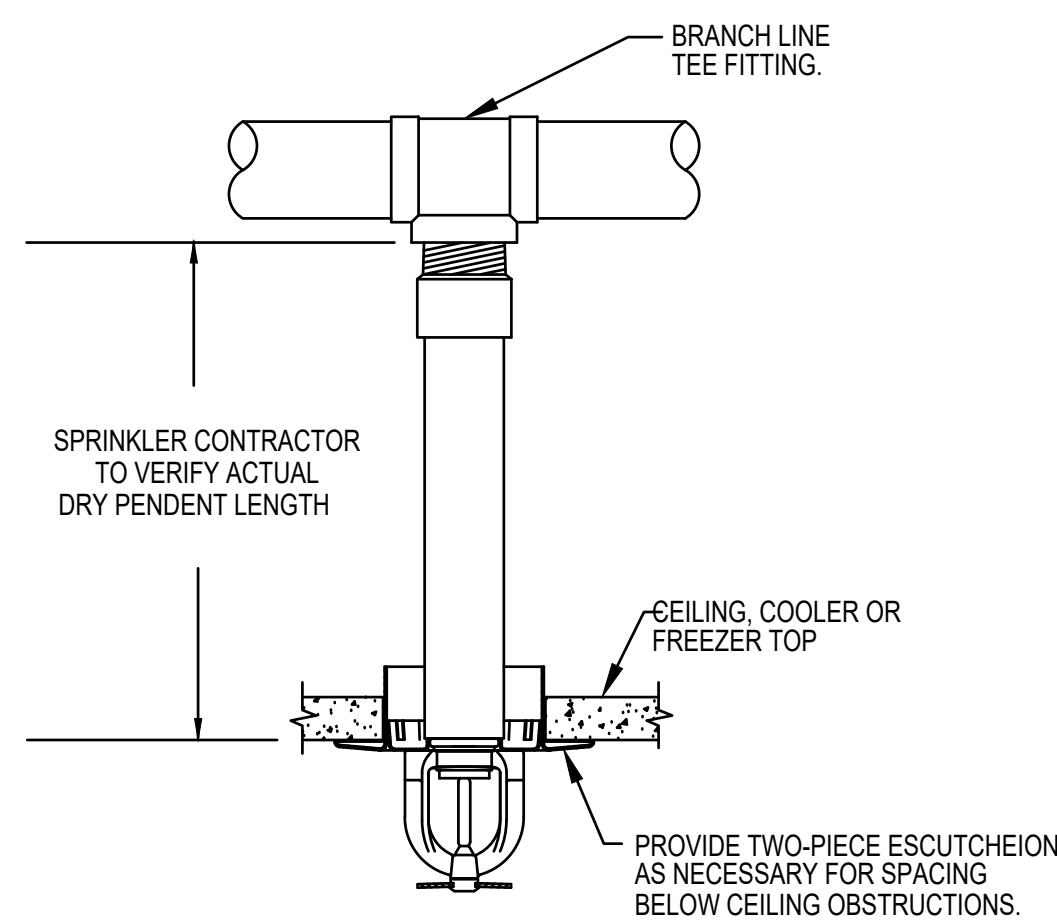
CONN TO SITE FIRE AND WATER SERVICES
INSTALLED UNDER ANOTHER SECTION. VERIFY
WITH CIVIL SITE UTILITY DRAWINGS EXACT
SIZE AND LOCATION PRIOR TO BEGINNING WORK



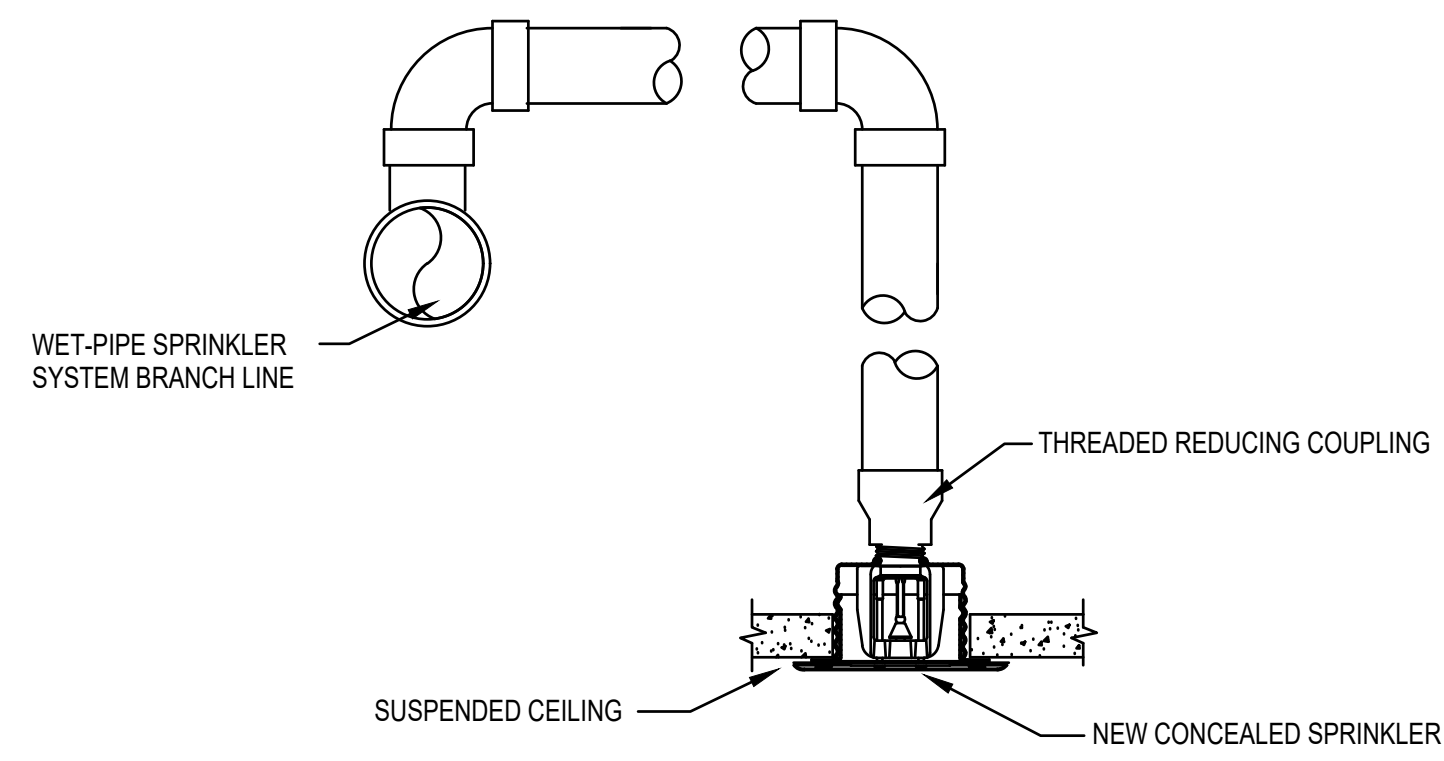
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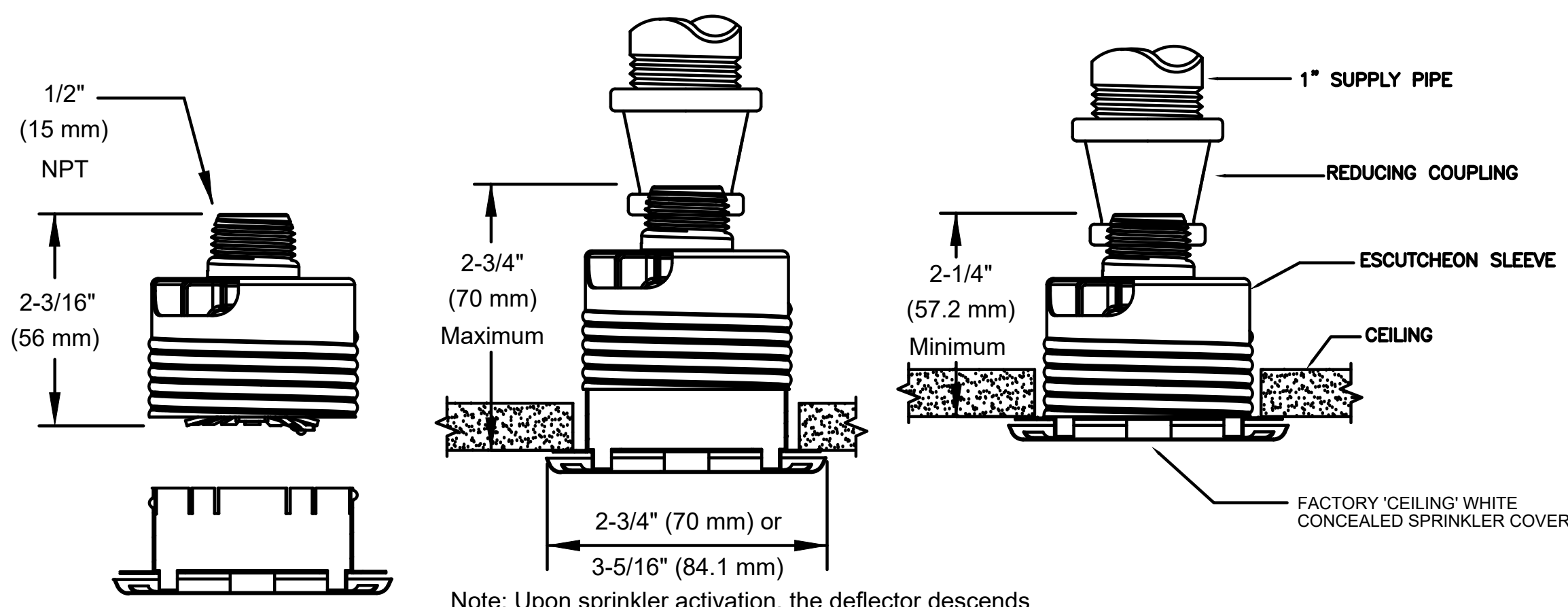
Drawing Title:
FIRE SPRINKLER FLOOR PLAN



DRY PENDENT SPRINKLER DETAIL
SCALE: NTS

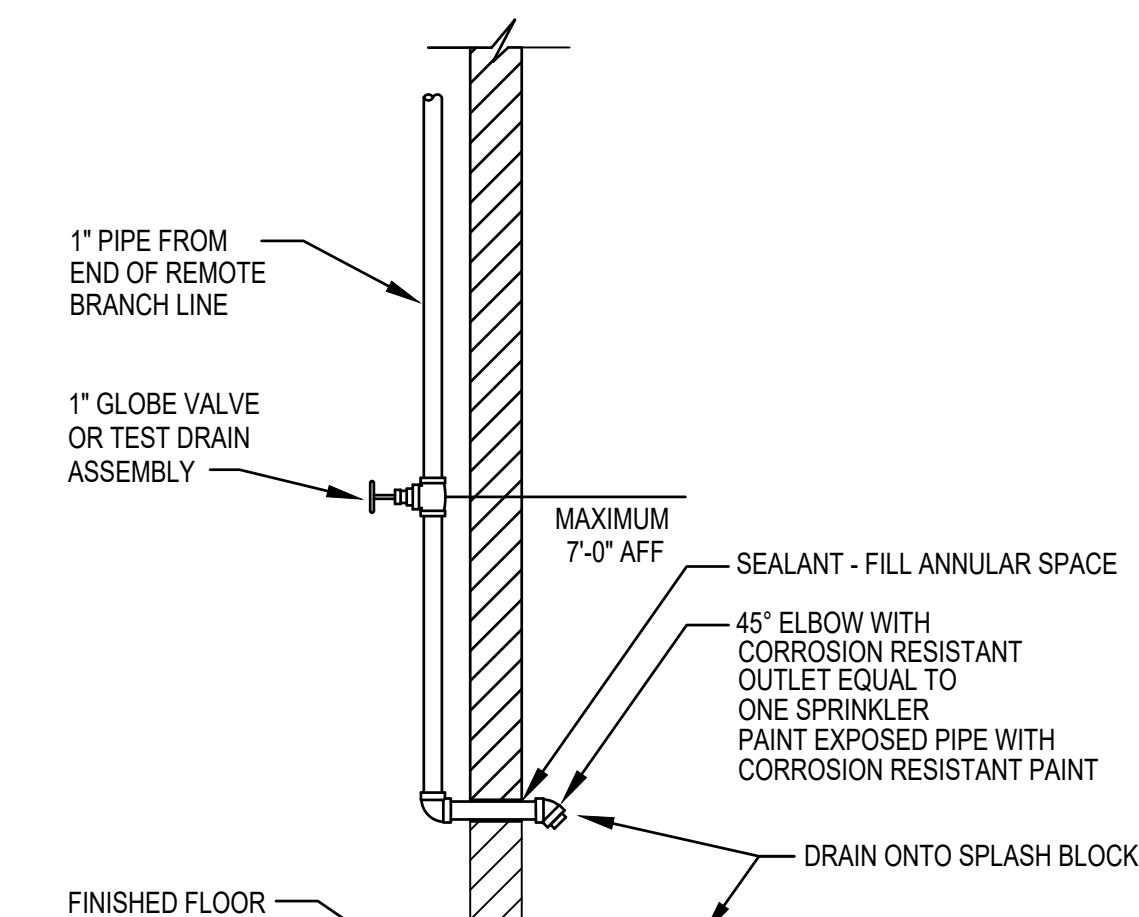


TYPICAL RETURN BEND DETAIL
SCALE: NTS

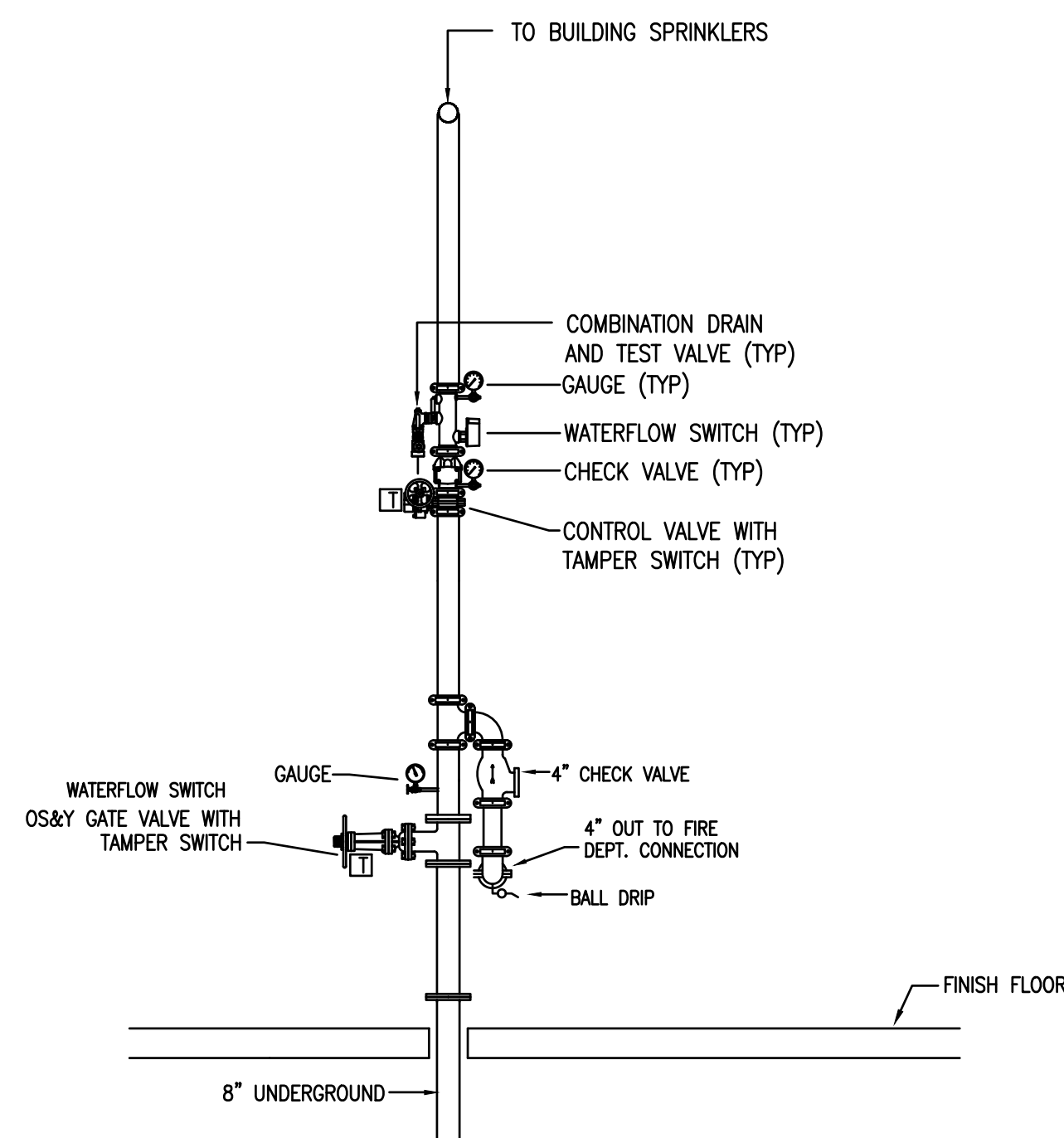


Note: Upon sprinkler activation, the deflector descends to approximately 13/16" (20.6 mm) below the sprinkler body.

DETAIL FOR CONCEALED SPRINKLER
SCALE: NONE TYPICAL FOR ALL SPRINKLERS

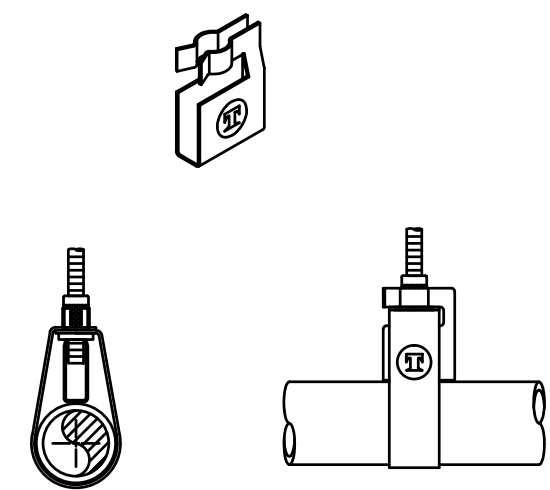


WET PIPE SYSTEM AUXILIARY DRAIN/INSPECTOR'S TEST DETAIL
SCALE: NTS



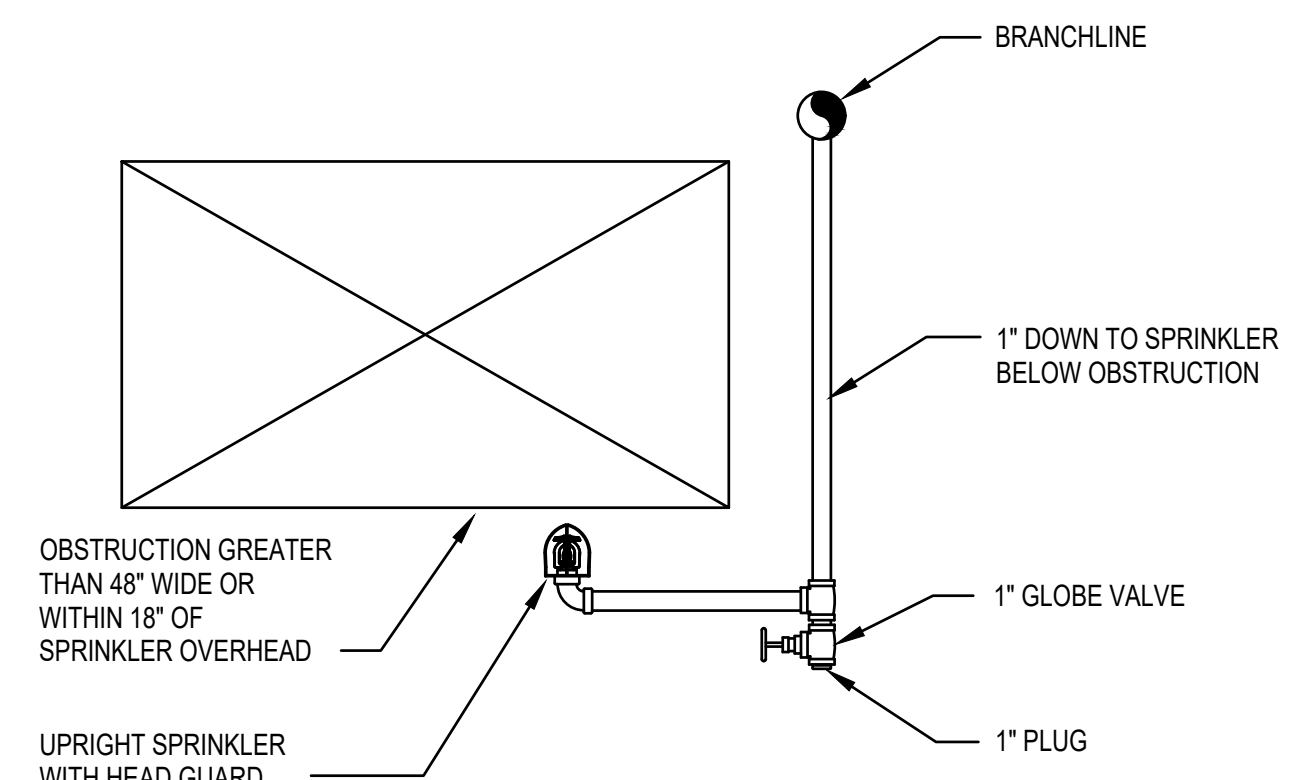
MAIN SPRINKLER RISER SCHEMATIC
SCALE: NONE

NOTE: SIZES NOT SHOWN TO BE PER CONTRACTOR HYDRAULIC CALCULATIONS
NOTE: INTERCONNECT ALL RISER DRAINS AND DRIPS AND ROUTE THROUGH EXTERIOR WALL TO DISCHARGE AT 12" ABOVE FINISH GRADE - PROVIDE CONCRETE SPLASH BLOCK.



NOTE: SURGE RESTRAINERS ARE TO BE USED ONLY WITH BAND HANGERS TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY. INSTALL AT ENDS OF LINES AND AT 30' INTERVALS ON BRANCH LINES.

SURGE RESTRAINERS
SCALE: NTS



SPRINKLER BELOW OBSTRUCTIONS DETAIL
SCALE: NTS

GENERAL NOTES AND SYMBOLS (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)	
FIRE SPRINKLER SYMBOLS	FIRE SPRINKLER GENERAL NOTES
<ul style="list-style-type: none"> ⊗ WET-PIPE SPRINKLER/CLASS I STANDPIPE RISER ⊙ DRY-PIPE SYSTEM SPRINKLER RISER ⊕ 2 1/2" HOSE VALVE IN RECESSED WALL CABINET ⊕ 2 1/2" X 2 1/2" X 6" FREE-STANDING FIRE DEPARTMENT CONNECTION ⊕ INSPECTOR'S TEST CONNECTION/AUXILIARY DRAIN 	<p>A. PROVIDE COMPLETE WET PIPE FIRE SPRINKLER SYSTEMS FOR THE ENTIRE BUILDING DESIGNED AND INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF NFPA 13, NFPA 14, 2015 IFC, AND SPECIFICATIONS.</p> <p>B. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.</p> <p>C. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM FINISH SCHEDULE AND ROOM USE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF LIGHTING, HVAC SUPPLY AND HVAC RETURN. SPRINKLER CONTRACTOR TO USE ARCHITECTURAL REFLECTED CEILING PLAN AS THE BASE TO PREPARE SPRINKLER HEAD LOCATION FOR SHOP DRAWINGS. FIELD VERIFY AND COORDINATE THE LOCATIONS OF ALL SYSTEM COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT WITHIN THE BUILDINGS.</p> <p>D. PROVIDE SLEEVES AND WALL PLATES FOR ALL PENETRATIONS THROUGH WALLS OR FLOORS THAT MIGHT INCLUDE DRILLING THROUGH CONCRETE, METAL SHEETROCK, OR OTHER MATERIALS. FIELD VERIFY APPROXIMATE WALL AND FLOOR PENETRATIONS SHOWN ON THE PLANS. SEAL ALL PENETRATIONS IN RATED SEPARATION TO MEET THE MINIMUM FIRE RATING OF THE WALL OR FLOOR.</p> <p>E. UTILIZE CURRENT WATER FLOW TEST INFORMATION FOR HYDRAULIC CALCULATIONS. VERIFY SYSTEM DESIGN AND LAYOUT PRIOR TO FABRICATION OR INSTALLATION.</p> <p>F. THE TOTAL CALCULATED WATER DEMAND FOR EACH OCCUPANCY IS EQUAL TO THE SUM OF THE SPRINKLER SYSTEM DEMAND PLUS THE COMBINED HOSE STREAM ALLOWANCE REQUIRED PER NFPA.</p> <p>G. COORDINATE THE LOCATION OF RISERS, DRAINS, TEST CONNECTIONS, AND OTHER SPRINKLER SYSTEM COMPONENTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS OF THE BUILDING.</p> <p>H. CONTRACTOR SHALL HAVE A FIRE PROTECTION ENGINEER HYDRAULICALLY CALCULATE THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. DENSITY AND SPACING REQUIREMENTS PER NFPA. INCREASE THE DESIGN AREA OF SPRINKLER OPERATION BY 30% FOR DRY-PIPE SYSTEMS PER NFPA.</p> <p>I. PROVIDE CONCEALED SPRINKLERS WITH FACTORY COLOR COVER PLATES FOR AREAS WITH CEILINGS OR CEILING FEATURES. ALL COVER PLATES FOR CONCEALED HEADS TO BE FACTORY FINISHED 'CEILING WHITE'. CENTER SPRINKLERS IN TWO DIRECTIONS FOR CEILING TILE, AND ALIGN SPRINKLERS WHERE POSSIBLE WITH LIGHT FIXTURES IN OTHER CEILINGS. PROVIDE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS IN AREAS EXPOSED TO STRUCTURE, COLOR BY ARCHITECT. CLEAN AND PAINT ALL SPRINKLER PIPING EXPOSED TO VIEW - COLOR AS SELECTED BY ARCHITECT. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.</p> <p>J. PROVIDE HANGERS AND SWAY BRACING FOR ALL SPRINKLER AND STANDPIPE PIPING PER NFPA 13.</p> <p>K. PROVIDE THREADED OR WELDED BLACK SCHEDULE 40 FOR 2" AND SMALLER PIPING, AND GROOVED OR WELDED SCHEDULE 10 FOR 2-1/2" AND LARGER PIPING. PROVIDE GALVANIZED PIPE AND FITTINGS FOR THE DRY-PIPE SPRINKLER SYSTEM.</p> <p>L. PROVIDE AUXILIARY DRAINAGE FOR ALL TRAPPED SECTIONS OF PIPE. PITCH DRY-PIPE SPRINKLER SYSTEM PIPING PER NFPA 13 GUIDELINES.</p> <p>M. PROVIDE ACCESS DOORS AND SIGNAGE WHERE ACCESS IS REQUIRED TO CONCEALED SPRINKLER EQUIPMENT, VALVES, AND CONTROLS LOCATED IN WALLS OR ABOVE CEILINGS AS APPROVED BY THE OWNER.</p> <p>N. EXTREME COORDINATION SHALL BE REQUIRED WITH OTHER TRADES PRIOR TO INSTALLATION AND DURING ALL INSTALLATION OF FIRE PROTECTION SYSTEMS.</p> <p>O. PROVIDE SEISMIC BRACING PER NFPA 13 FOR ALL SPRINKLER PIPING WHERE REQUIRED BY NFPA/IBC.</p> <p>P. THESE DOCUMENTS DEPICT PERFORMANCE DESIGN ONLY. PROVIDE COMPLETE DOCUMENTS FOR APPROVAL FROM THE AUTHORITY HAVING JURISDICTION. INCLUDE IN THE DRAWINGS ANY ADDITIONAL EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION AND COMPLY WITH BASE STANDARDS.</p> <p>Q. SPRINKLER SYSTEM DESIGNER SHALL COORDINATE WITH STATE AND LOCAL AUTHORITY/FIRE CHIEF.</p> <p>R. FLOW DATA FOR EXISTING 12" CITY WATER MAIN: FLOW POINT - S. COURT AT HOWARD STREET HYD. #285 CONTRACTOR CAUTION: WATER SUPPLY IS MINIMAL AND MAY REQUIRE REDUCED SPRINKLER SPACING AND INCREASED PIPE SIZING. CONTRACTOR TO FIELD VERIFY (PROVIDE FLOW TEST) PRIOR TO FINAL DESIGN AND SHALL MAKE ANY REQUIRED ADJUSTMENTS WITH NO COST TO OWNER.</p>
PIPING SYMBOLS	
<ul style="list-style-type: none"> ○ ELBOW UP ⊂ ELBOW DOWN ∇ VALVE IN DROP ∇ VALVE IN CENTER DROP ∇ VALVE IN RISE → DIRECTION OF FLOW ↘ DIRECTION OF SLOPE DOWN ⊂ CONCENTRIC REDUCER ⊂ ECCENTRIC REDUCER ⊂ TEE OUTLET UP ⊂ TEE OUTLET DOWN ⊂ UNION ⊂ STRAINER WITH BLOWDOWN VALVE ⊂ GATE VALVE ⊂ CHECK VALVE ⊂ PRESSURE CONTROL VALVE ⊂ RELIEF VALVE ⊂ PRESSURE GAUGE WITH GAUGE COCK ⊂ TEST PORT ⊂ FIRE PROTECTION MAIN ⊂ DM DRY MAIN 	<p>STATIC PRESSURE: 80 PSI RESIDUAL PRESSURE: 74 PSI FLOW: 1116 GPM</p>



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FIRE SPRINKLER NOTES
AND DETAILS

Sheet No:

FP2

CONFORMANCE
DOCUMENTS



ELECTRICAL LEGEND

CEILING OUTLETS

- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- JUNCTION BOX
- EXIT LIGHT
- EXHAUST FAN
- INDUSTRIAL CORD REEL WITH PORTABLE NEMA 5-20R GFI DUPLEX OUTLET BOX EQUAL TO HUBBELL MODEL #HBL45123R20, SUSPEND FROM STRUCTURE ABOVE

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S₃ A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- S₄ A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT
- S_M MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- 30/1, S_M MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- S_T PRESET INTERVAL TIMER SWITCH, HUBBELL TD-300 SERIES OR EQUALS
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

LIGHTING CONTROLS

- CEILING MOUNTED OCCUPANCY SENSOR
- POWER PACK FOR OCCUPANCY SENSOR
- AUXILIARY RELAY FOR OCCUPANCY SENSOR
- DOUBLE POLE SINGLE THROW RELAY 120 VAC COIL 2-20A CONTINUOUS CONTACTS, SIMILAR TO LEVITON OSP20-RDO
- ROOM CONTROLLER - 1 ZONE DIMMING
- ROOM CONTROLLER - ON/OFF NO DIMMING
- WALL DIMMER - ON/OFF & 0-10V
- 3-WAY WALL DIMMER - ON/OFF & 0-10V
- LOW VOLTAGE SWITCH, 2-BUTTON
- OCCUPANCY SENSOR WALL SWITCH, MULTI-TECHNOLOGY, SELF POWERED, SIMILAR TO LEVITON OS2TMT-MD

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CONTROL PANEL
- FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
- MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; "S" INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- TRANSFER SWITCH
- TRANSFORMER
- ELECTRIC METER
- GROUNDING ELECTRODE CONNECTION
- GROUND BUS

MISCELLANEOUS EQUIPMENT

- 6 POLE CONTACTOR-ELECTRICALLY HELD, 120V HOLDING COIL, 20A CONTACTS SEE DETAIL 5/E2.3.
- PHOTOCELL. SEE DETAIL 5/E2.3.
- EXTERIOR POLE LIGHT
- WATER HEATER
- UNIT HEATER
- TIMECLOCK
- GENERATOR ANNUNCIATOR PANEL
- AUTOMATIC TRANSFER SWITCH
- MOTORIZED DAMPER

WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE.
 - WALL MOUNTED EXIT LIGHT
 - WALL MOUNTED LIGHTING FIXTURE
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER UNLESS NOTED OTHERWISE
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
 - 250V LOCKING RECEPTACLE; 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R; HUBBELL. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - 125V LOCKING RECEPTACLE; 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L5-30R; HUBBELL. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - SINGLE RECEPTACLE - 30 AMP, 250 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 6-30R. MOUNT AS NEEDED FOR DRYER.
 - JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
 - PHOTOCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL - ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 3/4" C; 3 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL - ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND - 3/4" C; 3 #10, 1 #10 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL - ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND - 1" C; 3 #8, 1 #10 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250-95 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- EMERGENCY CIRCUITRY CONNECTED TO GENERATOR RUN CONCEALED IN CEILING OR WALLS
- LOW VOLTAGE CABLING FOR LIGHTING CONTROLS IN CONDUIT OR CONCEALED ABOVE CEILING.

FIRE ALARM SYSTEM

- FIRE ALARM CONTROL PANEL
- REMOTE ANNUNCIATOR
- NOTIFICATION APPLIANCE CIRCUIT
- MANUAL PULL STATION
- ANSUL SYSTEM
- SPEAKER/STROBE;
- WEATHERPROOF SIGNAL HORN;
- STROBE ONLY
- TAMPER SWITCH
- FLOW SWITCH
- HI/LO PRESSURE SWITCH
- AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED WITH LOCAL ANNUNCIATION,
- COMBINATION CARBON MONOXIDE/ SMOKE DETECTOR; CEILING MOUNTED
- AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
- REMOTE TEST STATION
- ZONE MODULE, CONTROL TYPE
- ZONE MODULE, MONITOR TYPE
- MAGNETIC DOOR HOLDERS
- SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED

COMMUNICATION SYSTEMS

- DATA WALL OUTLET - SEE SHEET E8.1 FOR REQUIREMENTS
- DATA WALL OUTLET - SEE SHEET E8.1 FOR REQUIREMENTS
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- TELEPHONE BACKBOARD - 3/4" EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN; SEE DETAILS ON SH. #E8.1
- COMMUNICATIONS RACK. SEE DETAILS ON SH. #E8.1.

FLOOR OUTLETS

- RECESSED FLOOR BOX WITH FULL EIGHT GANGS, SIMILAR TO WALKER RFB11 OR PRIOR APPROVED EQUALS. ARCHITECT TO SELECT FINISH. PROVIDE WITHIN 2-DUPLEX RECEPTACLES NEMA 5-20R. PROVIDE WITHIN 2- 1 1/4" CONDUITS TO CABLE TRAY. PROVIDE WITHIN 2- 1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE COLLAR FOR STUBS. COORDINATE EXACT LOCATION WITH ARCH. PRIOR TO ROUGH-IN.

MISCELLANEOUS

- A UNIT HEATER
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CL CENTER LINE
- CWP COLD WATER PIPE
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITER'S LABORATORY
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLTAGE
- W WIRE
- WP WEATHERPROOF
- # NUMBER
- 3R NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

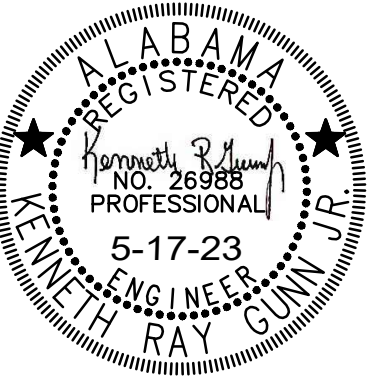
GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY SHALL BE 120V/208V 3PH, 4-WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.

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NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	0	ISSUED FOR REVIEW	01/16/23
	1	ISSUED FOR BID	02/03/23
	2	ADDENDUM #6	03/24/23
	3	CONFORMANCE	05/17/23

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

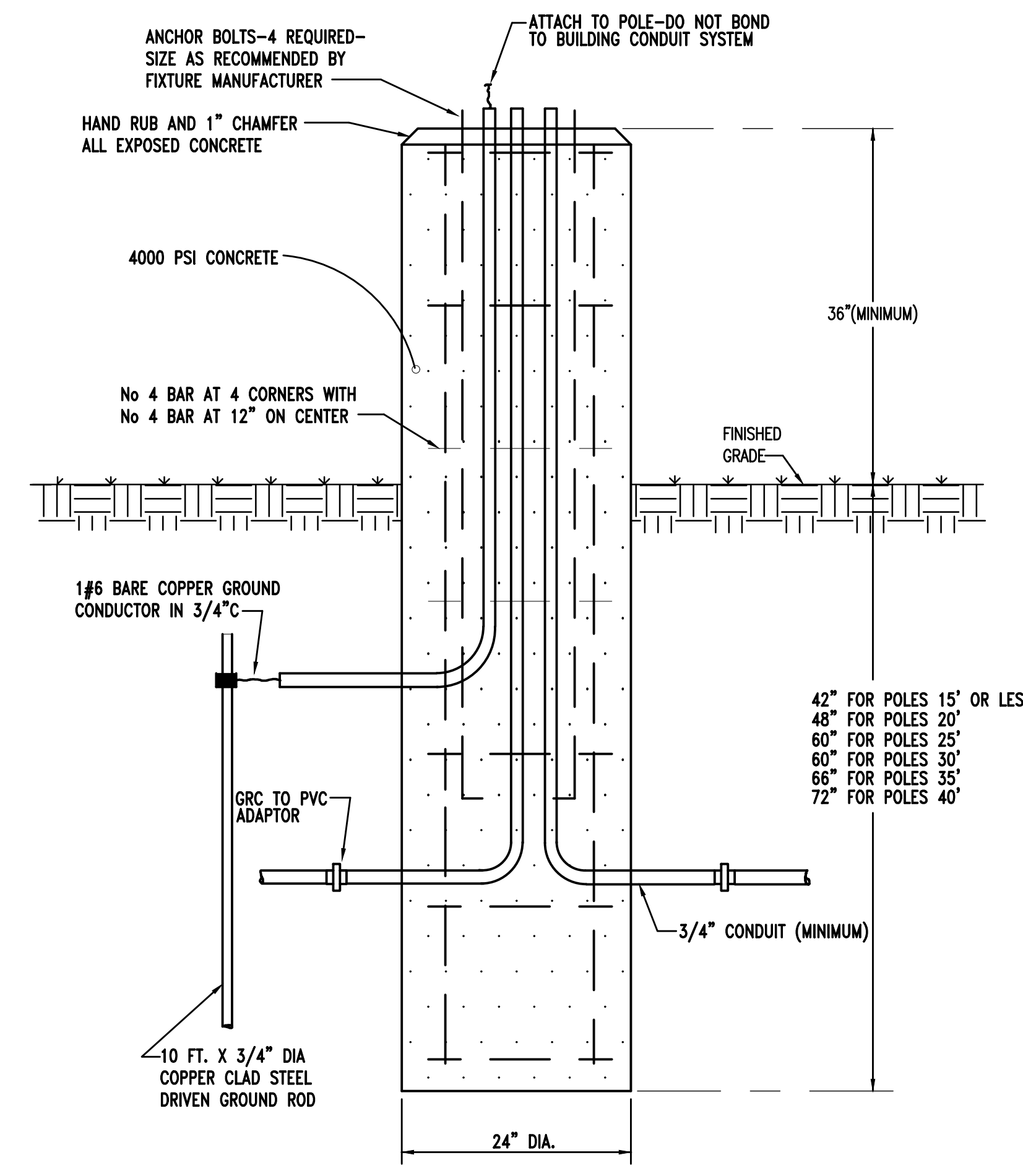
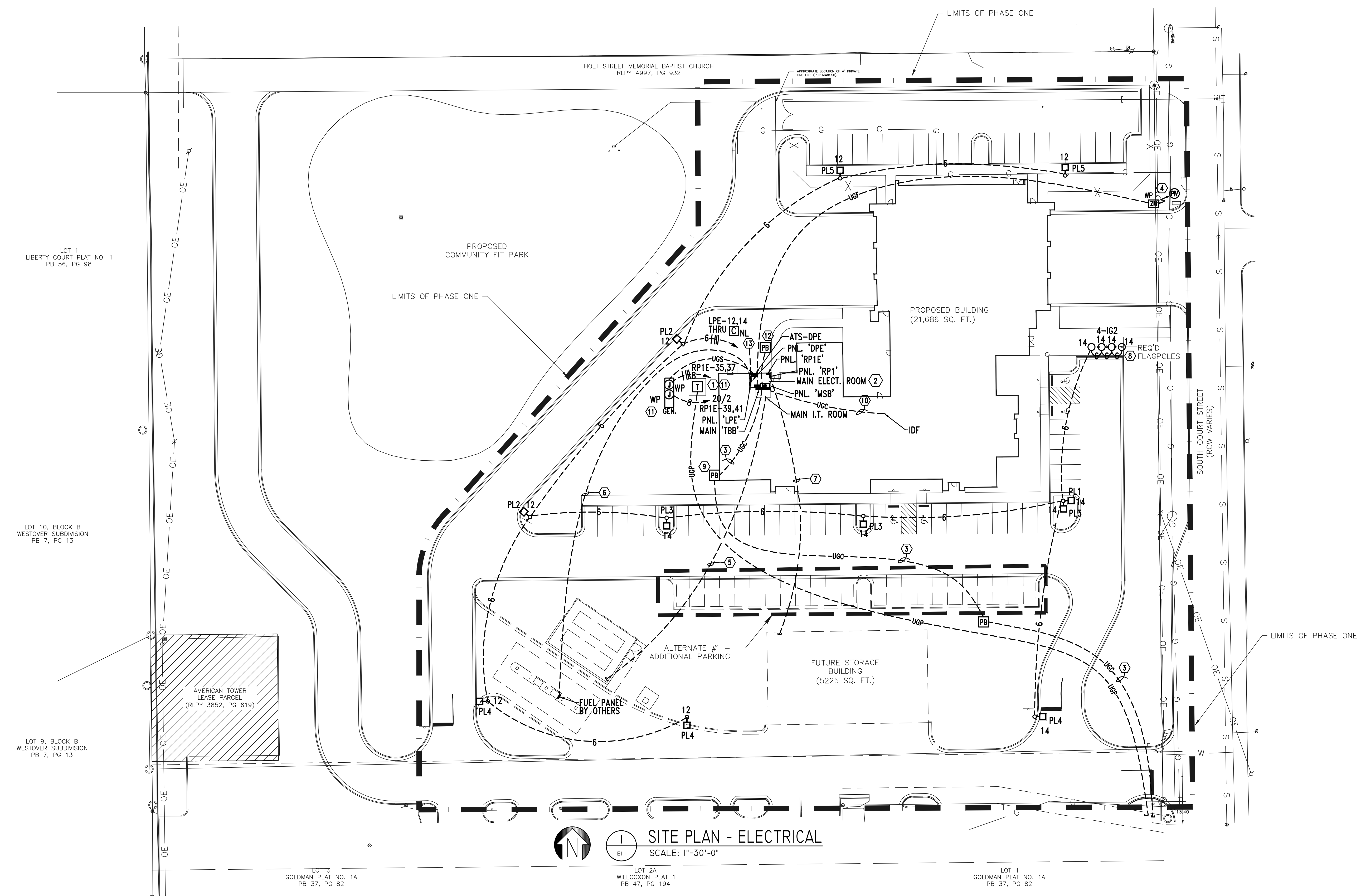
ELECTRICAL LEGEND

Sheet No:

E0.1

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CONFORMANCE
DRAWINGS



- NOTES:
1. CONCRETE SHALL TEST TO BE 4,000 PSI STRENGTH IN 28 DAYS.
 2. SEE LIGHT FIXTURE SCHEDULE FOR LIGHTING CONFIGURATION.
 3. ALL DIMENSIONS SHALL BE COORDINATED AND COMPLY WITH GEOTECHNICAL REPORT.
 4. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS IF MORE STRINGENT.
 5. POLE BASE SHALL BE IN FULL CONTACT WITH THE CONCRETE BASE.
 6. PAINT POLE BASES YELLOW BEFORE INSTALLING POLES.

2
E1.1
NO SCALE
DETAIL - TYPICAL ELEVATED CONCRETE POLE BASE

UNDERGROUND UTILITY NOTES:

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
 - a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
 - b. DUCTBANK INSTALLATIONS
 - c. LOW VOLTAGE CONDUCTOR INSTALLATION
 - d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED, UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
 - a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
 - b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICE PRIOR TO PERFORMING ANY TRENCHING.
 - c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
 - d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 2.

GENERAL ELECTRICAL SITE NOTES:

1. ALL SITE ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.
2. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED SURFACES AS A RESULT OF THE DUCTLINE INSTALLATION BACK TO PREVIOUS STATE.
3. ALL CONDUCTIVE PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED. UNLESS NOTED OTHERWISE, CONNECTIONS BELOW GRADE BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES, UNLESS SHOWN OR DIRECTED. WHERE DUCT LINES HAVE TO CROSS OTHER UTILITIES, SUCH AS SEWER, WATER, ELECTRICAL, AND COMMUNICATIONS LINES, PROVIDE ADEQUATE SUPPORT ON EACH SIDE OF THE CROSSING TO PREVENT PUTTING ANY DIRECT LOAD ONTO THE OTHER UTILITY LINES.
5. ALL DUCT AND CIRCUIT ROUTING ON DRAWINGS IS SHOWN TYPICAL. CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED ON ACTUAL FIELD DIMENSIONS, CONDITIONS, AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
6. CONTRACTOR SHALL STAKE OUT THE ENTIRE UNDERGROUND DUCT SYSTEM AND COORDINATE THE ROUTING AGAINST EXISTING UNDERGROUND UTILITY INFORMATION AND NEW WORK BY THE OTHER TRADES, BEFORE DOING ANY TRENCHING. THE GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OR CONTRACTING OFFICER SHALL GIVE APPROVAL OF ROUTING BEFORE TRENCHING SHALL BEGIN.
7. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH THE GEOTECHNICAL REPORT AND ALL SPECIFICATIONS.
8. ALL DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, TRANSITIONS, EXISTING UTILITIES, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED.
9. ALL CONDUITS STUBBED OUT OF THE FACILITY FOR FUTURE SHALL BE CAPPED AND LOCATION MARKED WITH 2" SQUARE, PAINTED RED, WITH CONDUIT NAME AND SIZE SHOWN IN WHITE. PROVIDE WITH PULLWIRES.
10. PROVIDE PROPER CONCRETE POLE BASE FOR ALL POLE MOUNTED EXTERIOR LIGHTING FIXTURES. SEE DETAIL.
11. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
12. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS PULLBOXES AND BACKBOARDS.
13. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
14. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED WITH ALABAMA POWER COMPANY PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.

SHEET NOTES:

1. COORDINATE WITH LOCAL UTILITY COMPANY FOR SPECIFIC LOCATION AND REQUIREMENTS FOR METER AND C.T. CABINET. COORDINATE WITH APC FOR SPECIFIC ROUTING OF CONDUIT PRIOR TO BID. SEE POWER RISER DIAGRAM SHEET E5.2 FOR FURTHER REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED FOR DISTANCE.
2. SEE SINGLE LINE RISER DIAGRAM ON SHEET E5.2 FOR ADDITIONAL INFORMATION ON CONDUIT INSTALLATIONS.
3. COORDINATE WITH COMMUNICATION COMPANY FOR SPECIFIC ROUTING AND TERMINATION POINT OF UNDERGROUND CABLE AND COMMUNICATION CONDUITS. COORDINATE ROUTING PRIOR TO BID. PROVIDE THREE (3) 3" CONDUITS. PROVIDE PULLBOXES AS INDICATED.
4. PROVIDE AND INSTALL ONE (1) 3/4" FOR THE FIRE ALARM SYSTEM CABLE. FIELD VERIFY ON SITE EXACT LOCATION OF PVC. PROVIDE AND INSTALL FLOW AND TAMPER SWITCHES AS REQUIRED.
5. PROVIDE TWO (2) 1" FROM I.T. ROOM TO EXTERIOR OF BUILDING FOR GAS PUMP CONTROLS.
6. PROVIDE 4#1/0, 1#86, 2" C. FROM PANEL 'DPE' TO PUMP STATION FOR FUEL PANEL. PANEL TO BE PROVIDED BY OTHERS. VERIFY EXACT PANEL LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
7. STUB-OUT TWO (2) 2" C. FROM PANEL 'RP1' TO FUTURE STORAGE BUILDING SITE. CAP FOR FUTURE USE.
8. VERIFY LOCATION OF FLAGPOLES PRIOR TO ROUGH-IN. SPACE FIXTURES EQUALLY BETWEEN POLES.
9. PROVIDE COMMUNICATIONS CONDUIT FROM MDF TO COMMUNICATIONS PULL BOX. SEE COMMUNICATIONS SINGLE LINE DIAGRAM SHEET E8.1.
10. PROVIDE TWO (2) 3" CONDUITS.
11. PROVIDE PROPER CLEARANCES FOR TRANSFORMER AND GENERATOR WHEN INSTALLING EQUIPMENT. ADJUST LOCATIONS AS NEEDED.
12. PROVIDE THREE (3) 4" CONDUITS FROM MDF TO PULLBOX FOR FUTURE RADIO TOWER.
13. PROVIDE TWO (2) 1 1/4" AND TWO (2) 2" CONDUITS STUBBED OUT OF ELECTRICAL ROOM FOR FUTURE RADIO TOWER. DO NOT STUB UP CONDUITS INTO ANY PANEL.

SITE LEGEND

- UGP — UNDERGROUND PRIMARY CONDUITS, MIN BURIAL 48" BELOW GRADE
- UGS — UNDERGROUND SECONDARY CONDUITS
- UGC — UNDERGROUND COMMUNICATIONS CONDUITS
- UGF — UNDERGROUND FIRE ALARM CONDUITS
- — UNDERGROUND CONDUIT
- SINGLE LIGHT MOUNTED ON 20'H. POLE
- TWO LIGHTS MOUNTED ON SINGLE 20'H. POLE AT 90°
- IN-GRADE LIGHT FIXTURE
- ⊙ WP WEATHERPROOF J-BOX
- ⊞ PAD MOUNTED TRANSFORMER
- ⊞ GENERATOR
- ⊞ NEW TELECOMMUNICATIONS PULL BOX, PROVIDE HIGHLIGHT NO. PHA243624HM2 OR APPROVED EQUAL BY OLDCASTLE OR HUBBELL.

REVISIONS		
No.	Description	Date
0	ISSUED FOR REVIEW	01/16/23
1	ISSUED FOR BID	02/03/23
2	ADDENDUM #4	03/10/23
3	CONFORMANCE	05/17/23

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

ELECTRICAL SITE PLAN

Sheet No:

E1.1

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CONFORMANCE
DRAWINGS



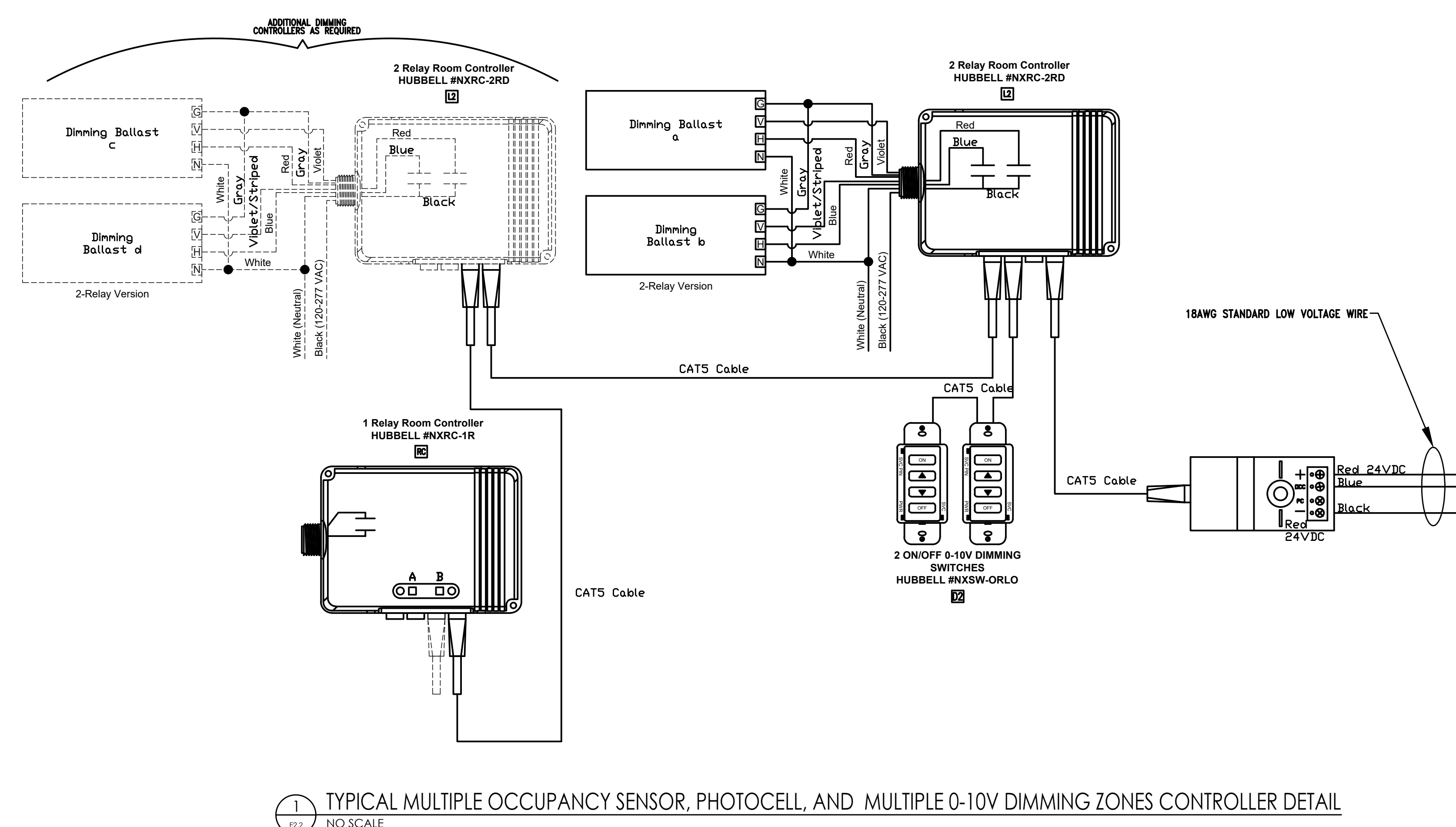
NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

OCCUPANCY SENSOR AND CONTROL NOTES:

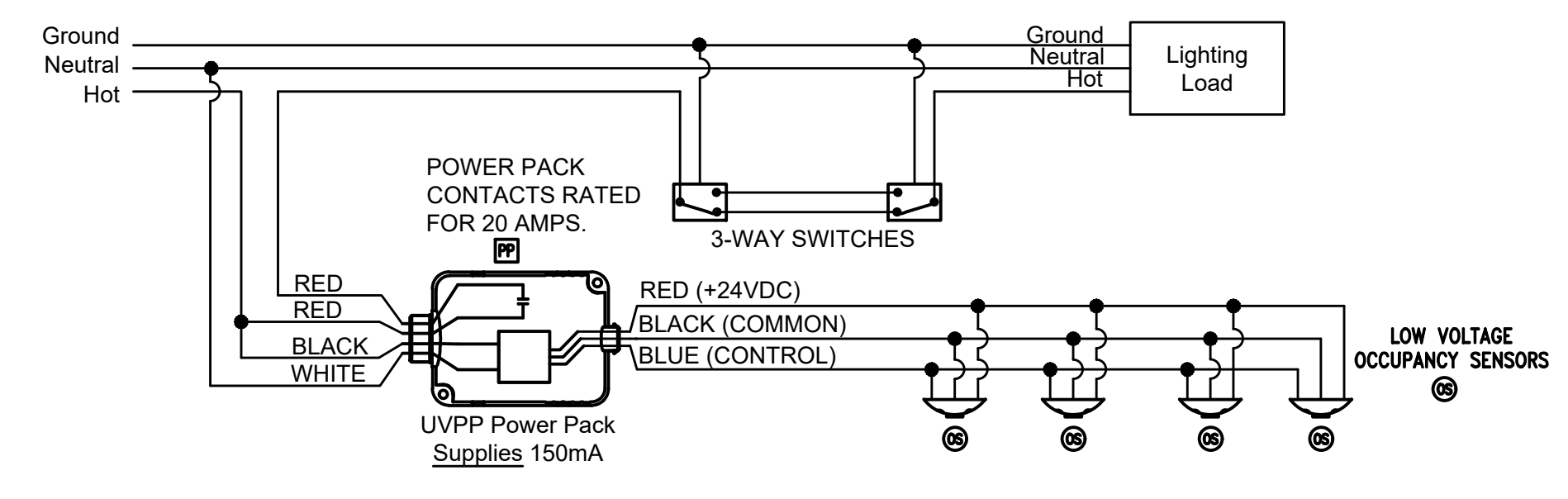
- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
- OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
- WAIT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.

KEYED NOTES

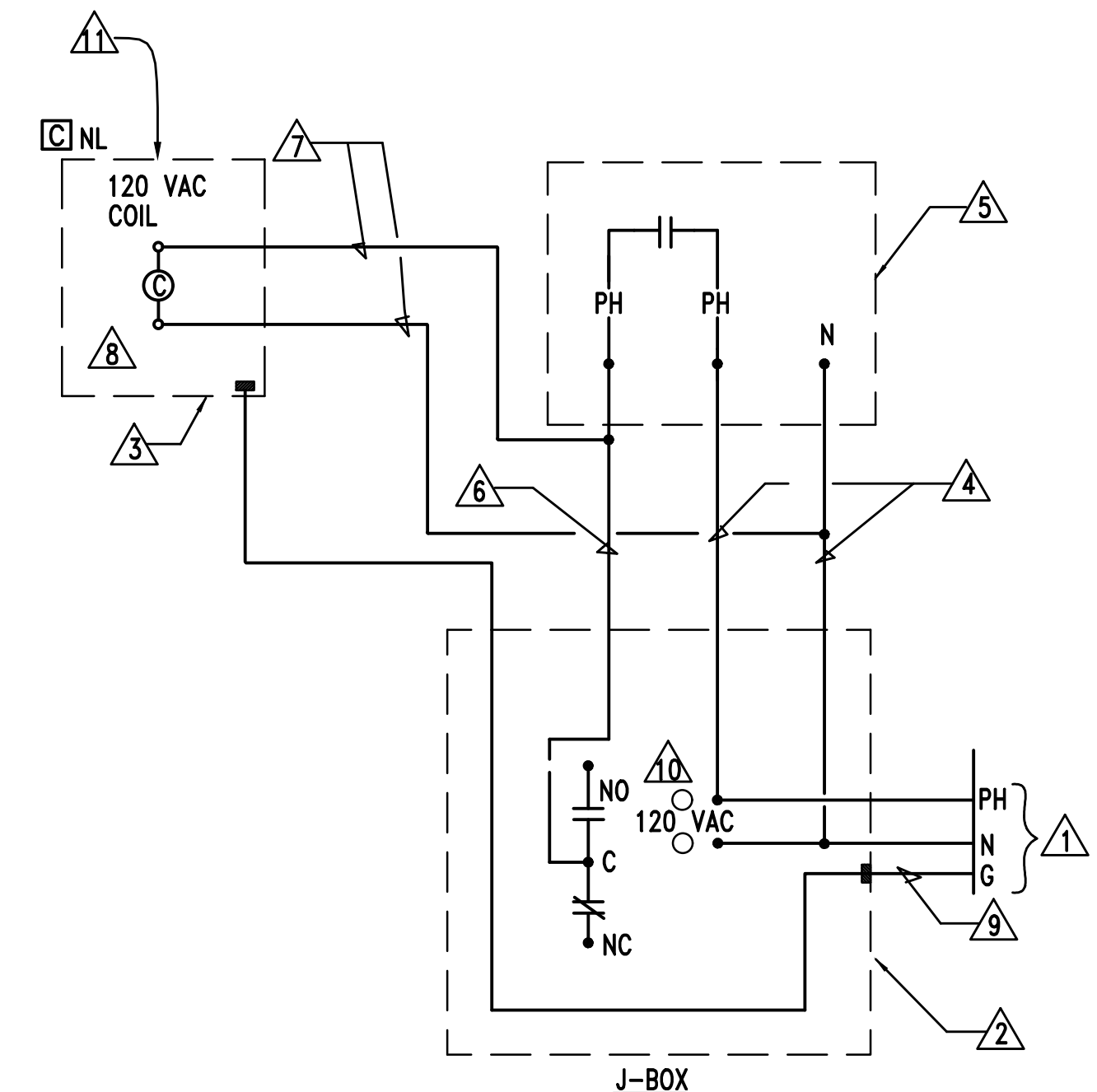
- ⚠️ POWER SUPPLY - 120V, 1PH, 60HZ
- ⚠️ TIME SWITCH ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- ⚠️ CONTACTOR ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- ⚠️ POWER TAP TO PHOTO-CELL IN GRC
- ⚠️ TURN-LOCK PHOTO-CELL, SEE DETAIL
- ⚠️ SWITCH LEG RETURN IN GRC
- ⚠️ POWER TO CONTACTOR COIL
- ⚠️ LIGHTING CONTACTOR [NL] AS FOLLOWS:
 - NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
 - ELECTRICALLY OPERATED-ELECTRICALLY HELD
 - 6 POLE, 20 AMP CONTINUOUS CONTACTS
 - CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
 - FUSING FOR CONTROL CIRCUIT
- ⚠️ GROUND CONDUCTOR - BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
- ⚠️ DIGITAL TIME SWITCH AS FOLLOWS:
 - ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
 - INPUT: 120 VAC, 60HZ
 - OUTPUT: DPST DRY CONTACTS (UNPOWERED)
 - HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
 - TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
 - RELATIVE HUMIDITY: 0 TO 90% RH
 - CLOCK ACCURACY: ±2 MINUTES PER YEAR
 - LED INDICATION OF TIME AND LOAD STATUS
 - FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
- ⚠️ INDICATES NUMBER OF POLES REQUIRED.



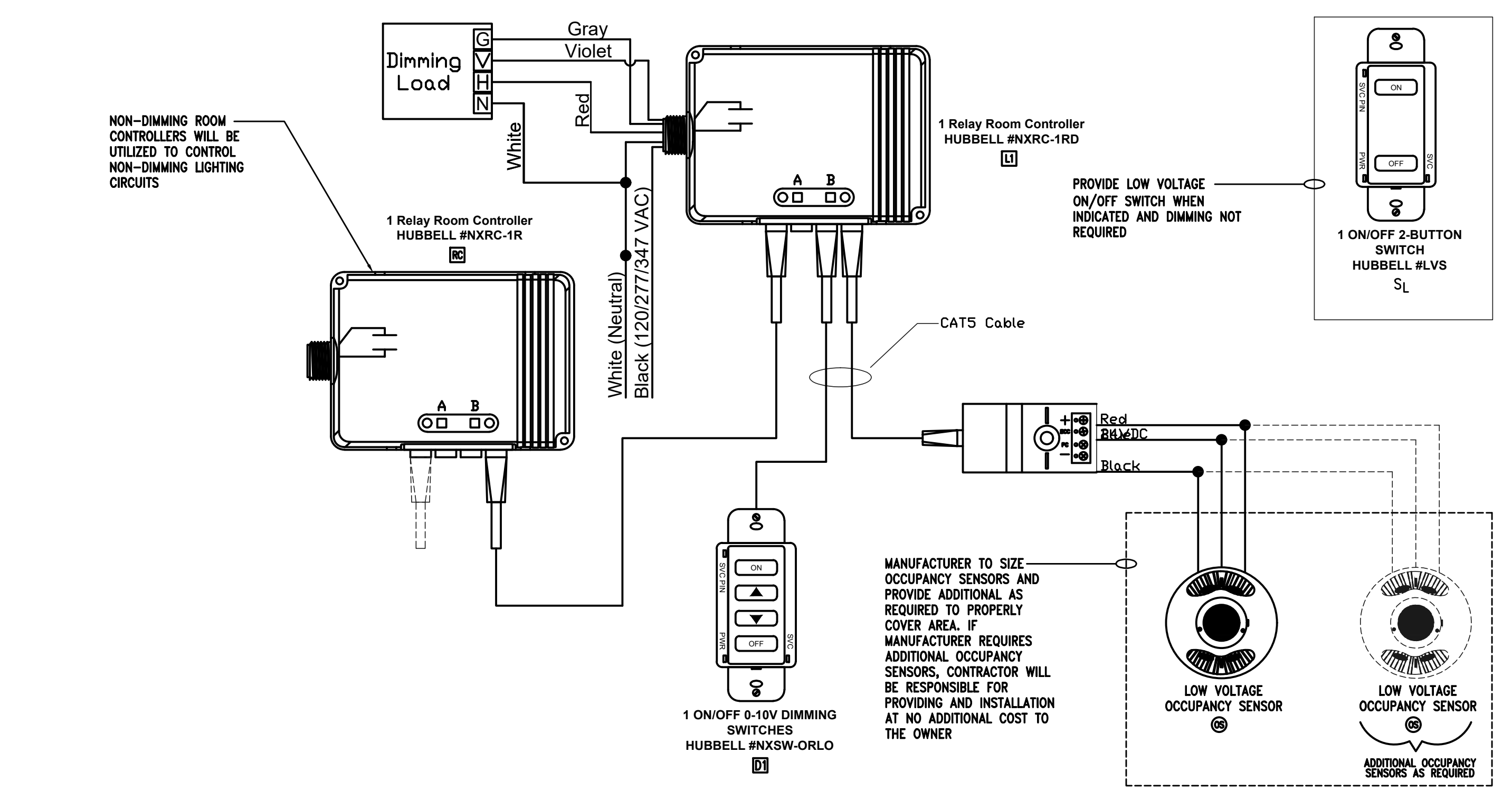
1 TYPICAL MULTIPLE OCCUPANCY SENSOR, PHOTOCELL, AND MULTIPLE 0-10V DIMMING ZONES CONTROLLER DETAIL
NO SCALE



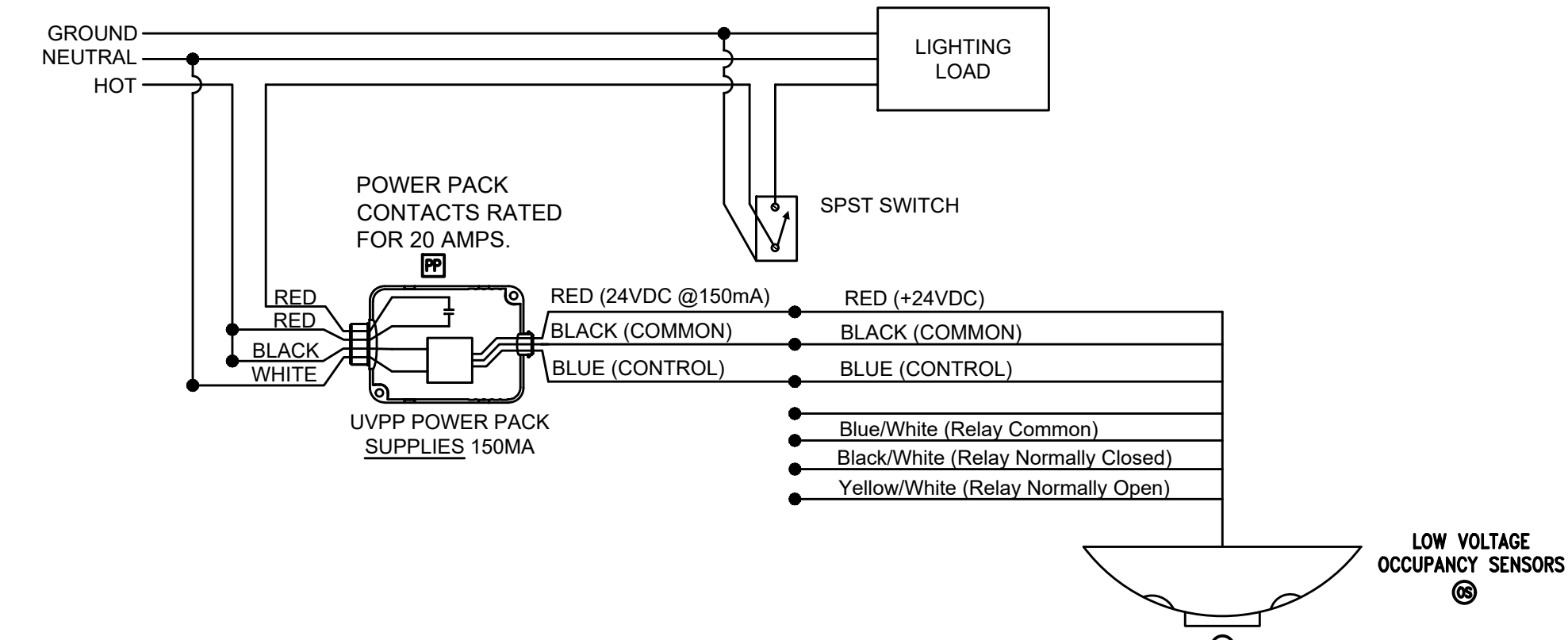
4 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE



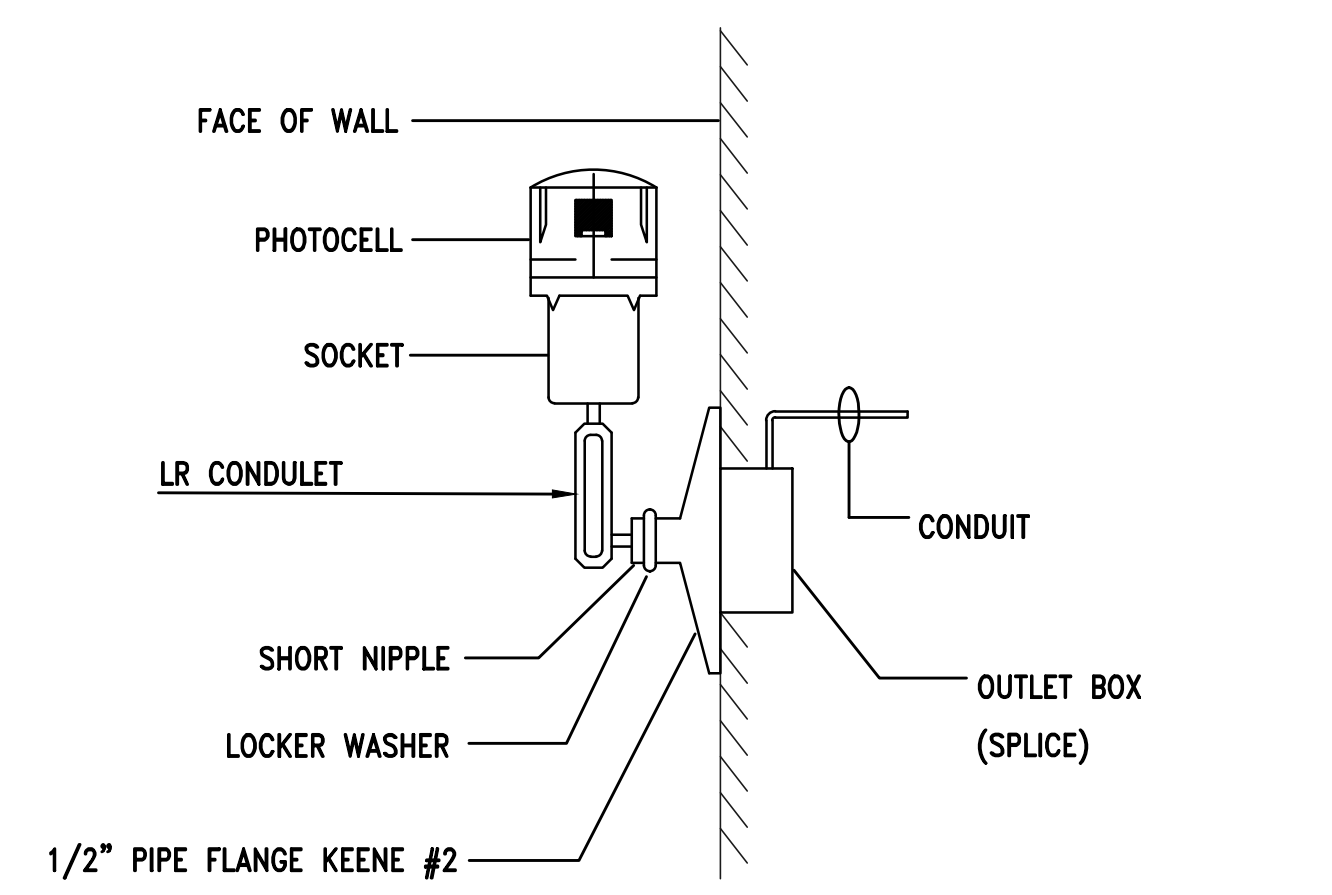
5 DETAIL - TYP. WIRING OF TIME SWITCH-
PHOTO-CELL/CONTACTOR ARRANGEMENT
NOT TO SCALE



2 TYPICAL MULTIPLE OCCUPANCY SENSOR AND SINGLE 0-10V DIMMING SYSTEM CONTROLLER DETAIL
NO SCALE



3 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE



NOTES

- PAIN CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
- COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
- PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.

6 DETAIL - INSTALLATION OF PHOTO-CELL
NO SCALE

REVISIONS

No.	Description	Date
0	ISSUED FOR REVIEW	01/16/23
1	ISSUED FOR BID	02/03/23
2	CONFORMANCE	05/17/23

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

LIGHTING CONTROL
DETAILS

Sheet No:

E2.2

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NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	0	ISSUED FOR REVIEW	01/16/23
	1	ISSUED FOR BID	02/09/23
	2	ADDENDUM #6	03/24/23
	3	CONFORMANCE	05/17/23

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

POWER PLAN

Sheet No:

E3.1

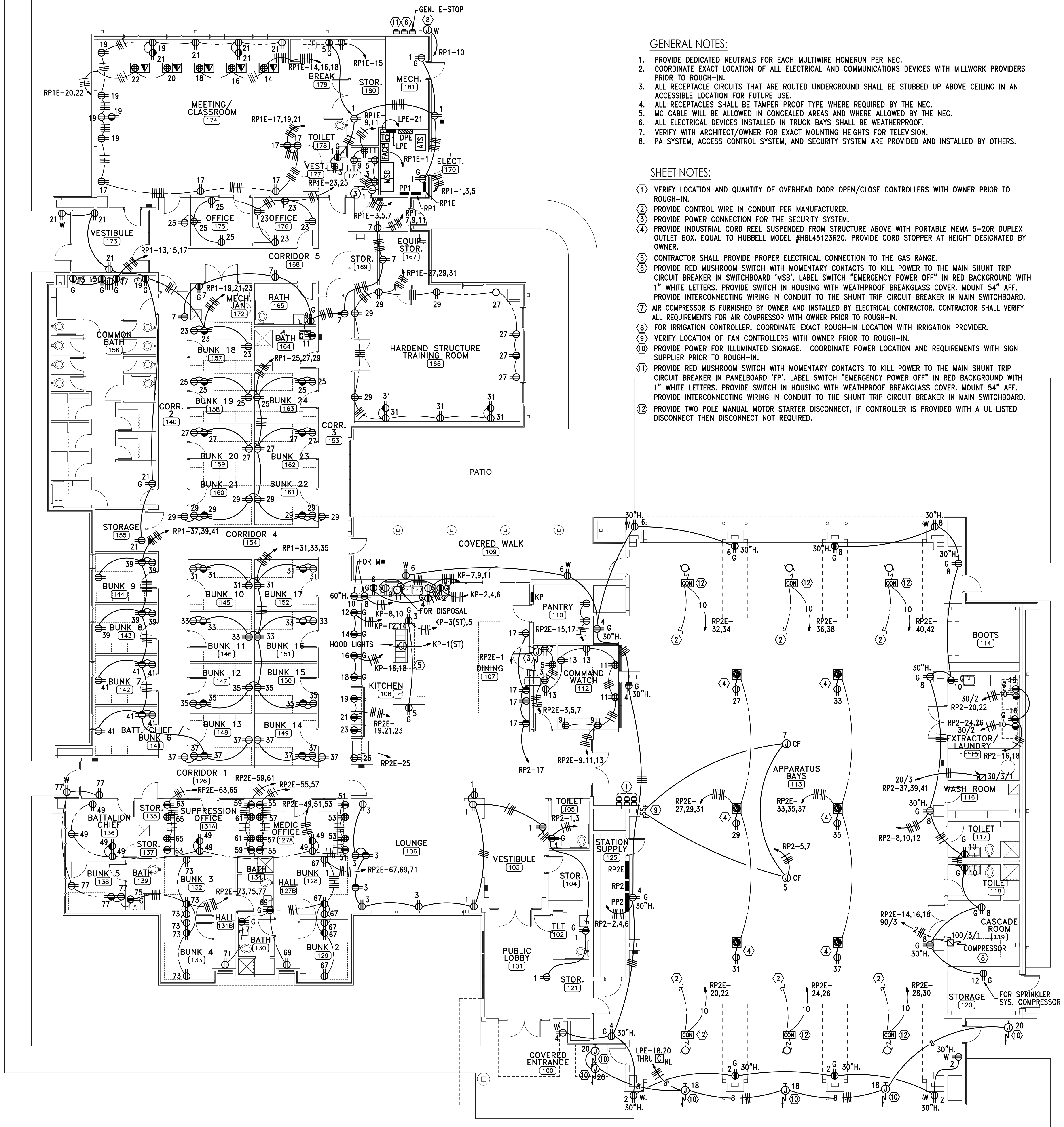
CONFORMANCE
DRAWINGS

GENERAL NOTES:

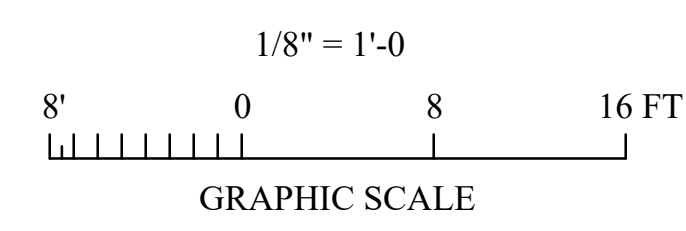
1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTI-WIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
4. ALL RECEPTACLES SHALL BE TAMPER PROOF TYPE WHERE REQUIRED BY THE NEC.
5. MC CABLE WILL BE ALLOWED IN CONCEALED AREAS AND WHERE ALLOWED BY THE NEC.
6. ALL ELECTRICAL DEVICES INSTALLED IN TRUCK BAYS SHALL BE WEATHERPROOF.
7. VERIFY WITH ARCHITECT/OWNER FOR EXACT MOUNTING HEIGHTS FOR TELEVISION.
8. PA SYSTEM, ACCESS CONTROL SYSTEM, AND SECURITY SYSTEM ARE PROVIDED AND INSTALLED BY OTHERS.

SHEET NOTES:

- ① VERIFY LOCATION AND QUANTITY OF OVERHEAD DOOR OPEN/CLOSE CONTROLLERS WITH OWNER PRIOR TO ROUGH-IN.
- ② PROVIDE CONTROL WIRE IN CONDUIT PER MANUFACTURER.
- ③ PROVIDE POWER CONNECTION FOR THE SECURITY SYSTEM.
- ④ PROVIDE INDUSTRIAL CORD REEL SUSPENDED FROM STRUCTURE ABOVE WITH PORTABLE NEMA 5-20R DUPLEX OUTLET BOX. EQUAL TO HUBBELL MODEL #HBL45123R20. PROVIDE CORD STOPPER AT HEIGHT DESIGNATED BY OWNER.
- ⑤ CONTRACTOR SHALL PROVIDE PROPER ELECTRICAL CONNECTION TO THE GAS RANGE.
- ⑥ PROVIDE RED MUSHROOM SWITCH WITH MOMENTARY CONTACTS TO KILL POWER TO THE MAIN SHUNT TRIP CIRCUIT BREAKER IN SWITCHBOARD "MSB". LABEL SWITCH "EMERGENCY POWER OFF" IN RED BACKGROUND WITH 1" WHITE LETTERS. PROVIDE SWITCH IN HOUSING WITH WEATHROOF BREAKGLASS COVER. MOUNT 54" AFF. PROVIDE INTERCONNECTING WIRING IN CONDUIT TO THE SHUNT TRIP CIRCUIT BREAKER IN MAIN SWITCHBOARD.
- ⑦ AIR COMPRESSOR IS FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR AIR COMPRESSOR WITH OWNER PRIOR TO ROUGH-IN.
- ⑧ FOR IRRIGATION CONTROLLER. COORDINATE EXACT ROUGH-IN LOCATION WITH IRRIGATION PROVIDER.
- ⑨ VERIFY LOCATION OF FAN CONTROLLERS WITH OWNER PRIOR TO ROUGH-IN.
- ⑩ PROVIDE POWER FOR ILLUMINATED SIGNAGE. COORDINATE POWER LOCATION AND REQUIREMENTS WITH SIGN SUPPLIER PRIOR TO ROUGH-IN.
- ⑪ PROVIDE RED MUSHROOM SWITCH WITH MOMENTARY CONTACTS TO KILL POWER TO THE MAIN SHUNT TRIP CIRCUIT BREAKER IN PANELBOARD "FP". LABEL SWITCH "EMERGENCY POWER OFF" IN RED BACKGROUND WITH 1" WHITE LETTERS. PROVIDE SWITCH IN HOUSING WITH WEATHROOF BREAKGLASS COVER. MOUNT 54" AFF. PROVIDE INTERCONNECTING WIRING IN CONDUIT TO THE SHUNT TRIP CIRCUIT BREAKER IN MAIN SWITCHBOARD.
- ⑫ PROVIDE TWO POLE MANUAL MOTOR STARTER DISCONNECT, IF CONTROLLER IS PROVIDED WITH A UL LISTED DISCONNECT THEN DISCONNECT NOT REQUIRED.



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



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REVISIONS	No.	Description	Date
	0	ISSUED FOR REVIEW	01/16/23
	1	ISSUED FOR BID	02/03/23
	2	CONFORMANCE	05/17/23

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

POWER PLAN -
MECHANICAL
CONNECTIONS

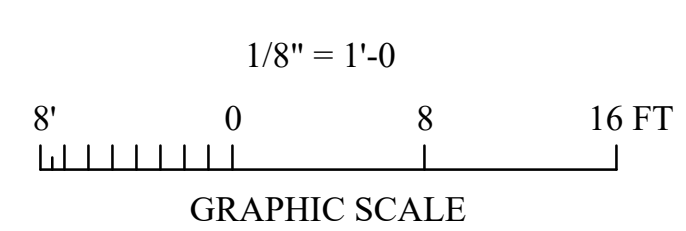
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E3.2

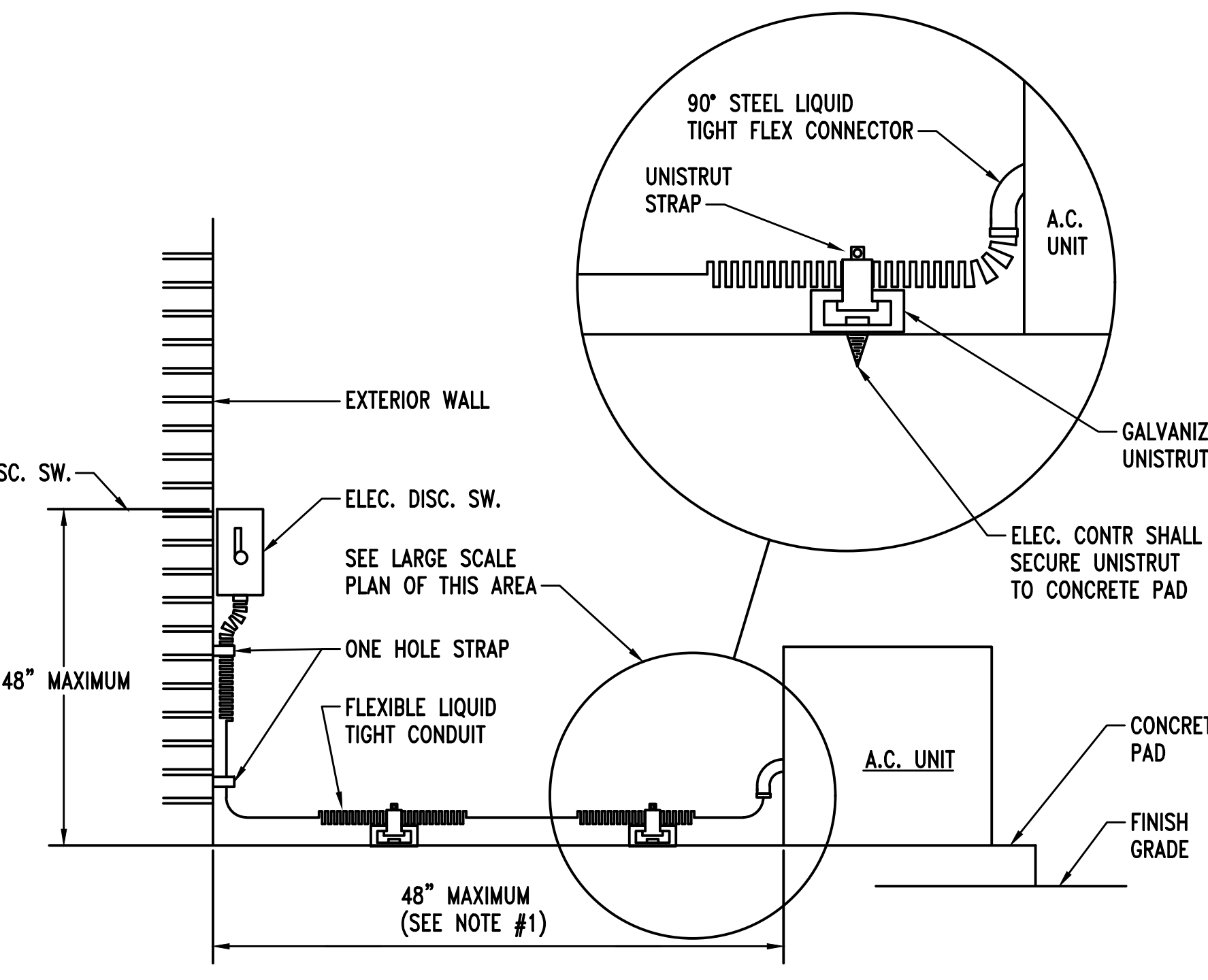
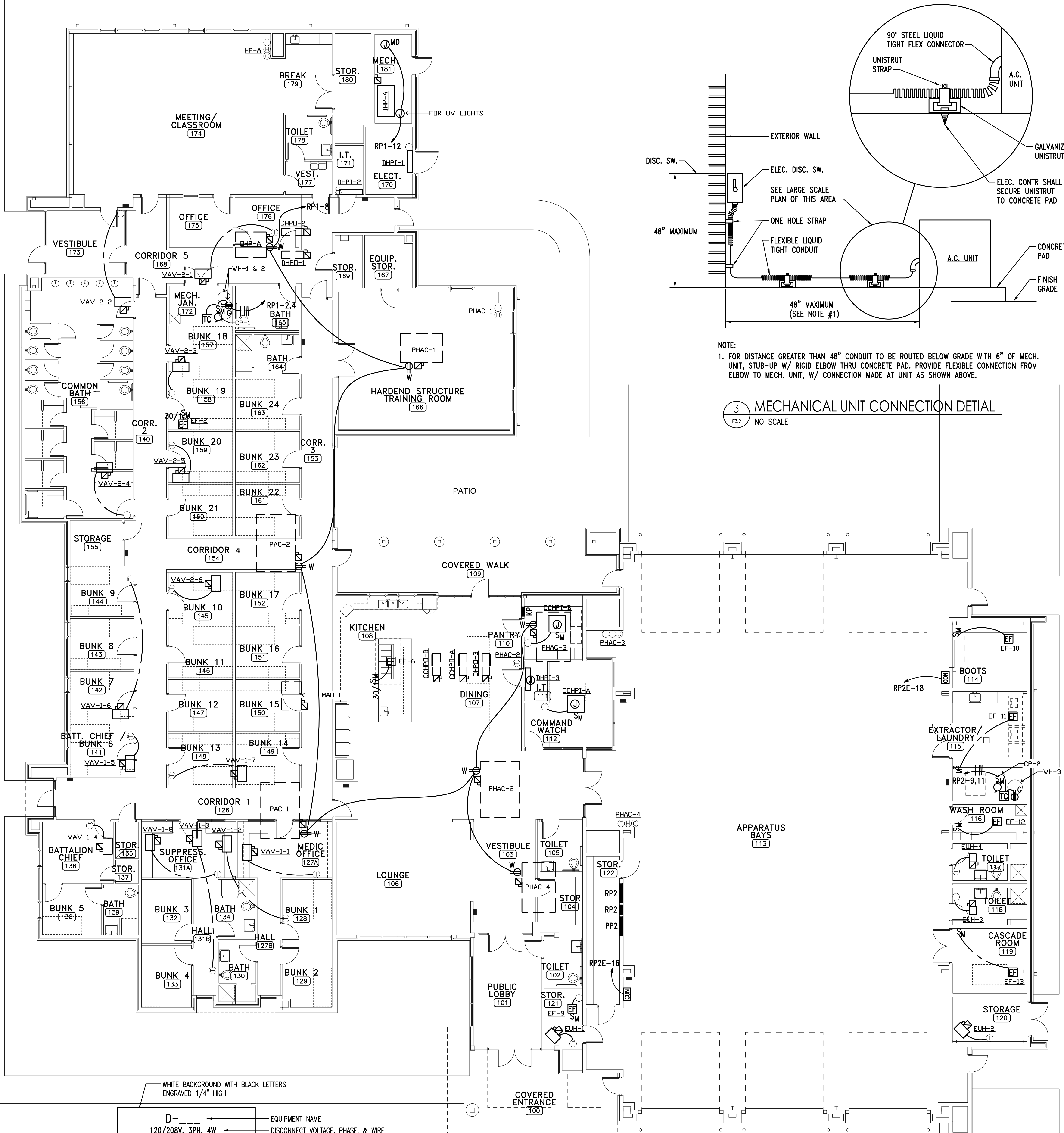
CONFORMANCE
DRAWINGS

GENERAL EQUIPMENT SCHEDULE									
EQUIPMENT MARK:	EQUIPMENT DESCRIPTION:	VOLTAGE/PHASE:	ELECTRICAL CHARACTERISTICS:		DISCONNECT:	FUSE:	HOMERUN:	FEEDER:	
			HP	KW					
CCHPI-A	INDOOR CEIL MINI SPLIT	208/1		1.5	TS		NOTE 8	2#12 & #12GRD - 3/4"	
CCHPI-B	INDOOR CEIL MINI SPLIT	208/1		1	TS		NOTE 8	2#12 & #12GRD - 3/4"	
CCHPO-A	OUTDOOR MINI SPLIT	208/1		18	30/2/3R	F	PP2-13.15	2#12 & #12GRD - 3/4"	
CCHPO-B	OUTDOOR MINI SPLIT	208/1		13	30/2/3R	F	PP2-17.19	2#10 & #10GRD - 3/4"	
CP-1	RECIRC. PUMP	120/1			TS		RP1-4	2#12 & #12GRD - 3/4"	
CP-2	RECIRC. PUMP	120/1			TS		RP2-11	2#12 & #12GRD - 3/4"	
DHPI-1	INDOOR WALL MINI SPLIT	208/1		1.5	TS		NOTE 8	2#12 & #12GRD - 3/4"	
DHPI-2	INDOOR WALL MINI SPLIT	208/1		1.5	TS		NOTE 8	2#12 & #12GRD - 3/4"	
DHPI-3	INDOOR WALL MINI SPLIT	208/1		1.5	TS		NOTE 8	2#12 & #12GRD - 3/4"	
DHPO-1	OUTDOOR MINI SPLIT	208/1		9	30/2/3R	F	PP1-13.15	2#12 & #12GRD - 3/4"	
DHPO-2	OUTDOOR MINI SPLIT	208/1		9	30/2/3R	F	PP1-17.19	2#12 & #12GRD - 3/4"	
DHPO-3	OUTDOOR MINI SPLIT	208/1		9	30/2/3R	F	PP2-21.23	2#12 & #12GRD - 3/4"	
EF-1	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-2 (NOTE 7)	EXHAUST FAN	120/1	3/4		TS-30A		RP1-6	2#10 & #10GRD - 3/4"	
EF-3	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-4	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-5	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-6	HOOD EXHAUST FAN	120/1	3/4		TS-30A		KP-13	2#10 & #10GRD - 3/4"	
EF-7	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-8	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-9	EXHAUST FAN	120/1		0.273	TS		PP2-58	2#12 & #12GRD - 3/4"	
EF-10	EXHAUST FAN	120/1		0.273	TS		PP2-58	2#12 & #12GRD - 3/4"	
EF-11	EXHAUST FAN	120/1		0.273	TS		PP2-58	2#12 & #12GRD - 3/4"	
EF-12	EXHAUST FAN	120/1		0.1	TS		PP2-58	2#12 & #12GRD - 3/4"	
EF-13	EXHAUST FAN	120/1		0.273	TS		PP2-58	2#12 & #12GRD - 3/4"	
EF-14	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EF-15	EXHAUST FAN	120/1		0.1	TS		NOTE 6	2#12 & #12GRD - 3/4"	
EUH-1	ELECT UNIT HEATER	208/3		3.3	30/3/1	F	PP2-43.45.47	3#12 & #12GRD - 3/4"	
EUH-2	ELECT UNIT HEATER	208/3		3.3	30/3/1	F	PP2-44.46.48	3#12 & #12GRD - 3/4"	
EUH-3	ELECT UNIT HEATER	208/1		3	30/2/1	F	PP2-54.56	2#12 & #12GRD - 3/4"	
EUH-4	ELECT UNIT HEATER	208/1		2	30/2/1	F	PP2-53.55	2#12 & #12GRD - 3/4"	
HP-A	INDOOR HEAT PUMP	208/3	3	25	200/3/1	F	PP1-1.3.5	3#1 & #8GRD - 2"	
MAU-1	MAKE-UP AIR UNIT	208/3	1		30/3/3R	F	KP-19.21.23	3#12 & #12GRD - 3/4"	
OHP-A	OUTDOOR HEAT PUMP	208/3		36.5	60/3/3R	F	PP1-7.9.11	3#8 & #10GRD - 1 1/4"	
PAC-1	PKG. VAV HEAT PUMP	208/3	3.1	17	67	100/3/3R	F	PP2-1.3.5	3#4 & #8GRD - 1 1/4"
PAC-2	PKG. VAV HEAT PUMP	208/3	5	25	97	100/3/3R	F	PP1-8.10.12	3#1 & #8GRD - 2"
PHAC-1	PKG. HEAT PUMP	208/3	1		26	60/3/3R	F	PP1-2.4.6	3#8 & #10GRD - 1"
PHAC-2	PKG. HEAT PUMP	208/3	5		64	100/3/3R	F	PP2-7.9.11	3#2 & #8GRD - 1 1/2"
PHAC-3	PKG. HEAT PUMP	208/3	3		72	100/3/3R	F	PP2-2.4.6	3#2 & #8GRD - 1 1/2"
PHAC-4	PKG. HEAT PUMP	208/3	3		72	100/3/3R	F	PP2-8.10.12	3#2 & #8GRD - 1 1/2"
VAV-1-1	VAV BOX	208/3		1.5	30/3/1	F	PP2-25.27.29	3#12 & #12GRD - 3/4"	
VAV-1-2	VAV BOX	208/3		3	30/3/1	F	PP2-31.33.35	3#12 & #12GRD - 3/4"	
VAV-1-3	VAV BOX	208/3		6	30/3/1	F	PP2-37.39.41	3#10 & #10GRD - 3/4"	
VAV-1-4	VAV BOX	208/3		5	30/3/1	F	PP2-14.16.18	3#12 & #12GRD - 3/4"	
VAV-1-5	VAV BOX	208/3		3	30/3/1	F	PP2-20.22.24	3#12 & #12GRD - 3/4"	
VAV-1-6	VAV BOX	208/3		6	30/3/1	F	PP2-26.28.30	3#10 & #10GRD - 3/4"	
VAV-1-7	VAV BOX	208/3		7	30/3/1	F	PP2-32.34.36	3#10 & #10GRD - 3/4"	
VAV-1-8	VAV BOX	208/3		2	30/3/1	F	PP2-38.40.42	3#12 & #12GRD - 3/4"	
VAV-2-1	VAV BOX	208/3		6	30/3/1	F	PP1-25.27.29	3#10 & #10GRD - 3/4"	
VAV-2-2	VAV BOX	208/3		5	30/3/1	F	PP1-31.33.35	3#12 & #12GRD - 3/4"	
VAV-2-3	VAV BOX	208/3		6	30/3/1	F	PP1-37.39.41	3#10 & #10GRD - 3/4"	
VAV-2-4	VAV BOX	208/3		8	30/3/1	F	PP1-26.28.30	3#10 & #10GRD - 3/4"	
VAV-2-5	VAV BOX	208/3		7	30/3/1	F	PP1-32.34.36	3#10 & #10GRD - 3/4"	
VAV-2-6	VAV BOX	208/3		7	30/3/1	F	PP1-38.40.42	3#10 & #10GRD - 3/4"	
WH-1	GAS WATER HEATER	120/1		3	TS		RP1-2	2#12 & #12GRD - 3/4"	
WH-2	GAS WATER HEATER	120/1		3	TS		RP1-2	2#12 & #12GRD - 3/4"	
WH-3	GAS WATER HEATER	120/1		3	TS		RP2-8	2#12 & #12GRD - 3/4"	

- GENERAL NOTES:
- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
 - MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
 - COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
 - ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
 - CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
 - PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
 - COORDINATE WITH GENERAL EQUIPMENT SCHEDULE FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
 - SEE DETAIL (3) THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.
 - ALL MECHANICAL CONTROLS ARE PROVIDED BY MECH. CONTRACTOR AND INSTALLED BY E.C.

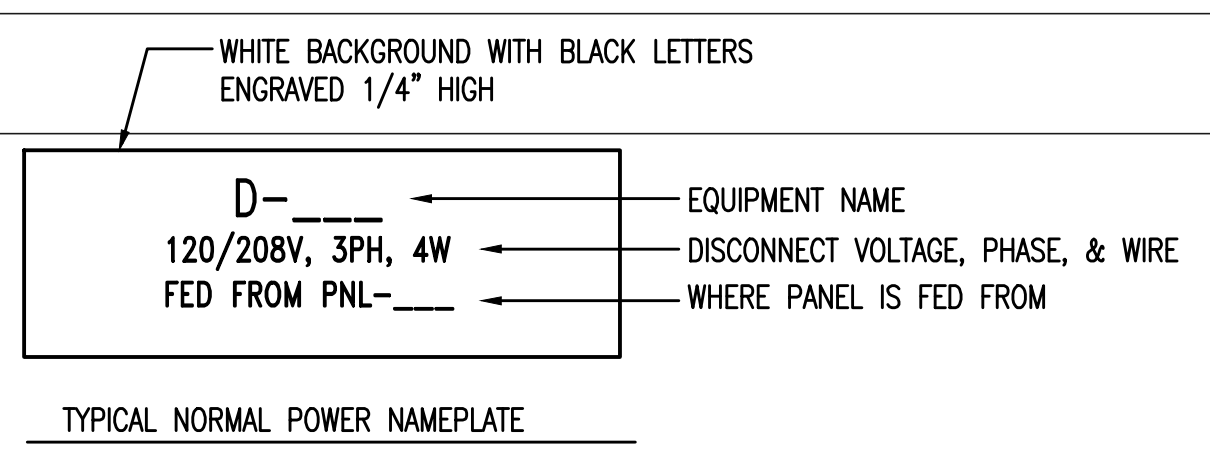


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NOTE:
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.

3 MECHANICAL UNIT CONNECTION DETAIL
NO SCALE



2 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

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



GENERAL NOTES:

1. ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
2. COORDINATE WITH FIRE ALARM AND COMMUNICATIONS RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
4. MOUNT CARBON MONOXIDE DETECTORS WITHIN 12" OF HVAC SUPPLY GRILL.
5. FIRE ALARM CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROGRAM FIRE ALARM SYSTEM FOR CROSS ZONING IF REQUIRED BY LOCAL AHJ FOR SMOKE DETECTORS IN BUNK ROOMS.

SHEET NOTES:

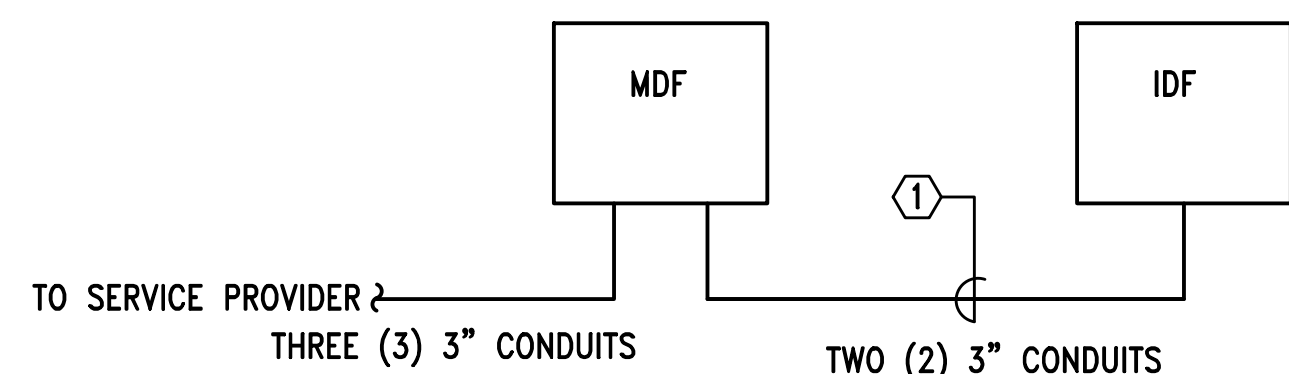
- 1 PROVIDE FOUR 4" CONDUITS STUBBED FROM THE IDF TO THE J-HOOK SYSTEM.
- 2 CONTRACTOR SHALL PROVIDE TWO (2) 4" CONDUITS TO COMMUNICATION SERVICE PROVIDER HUB AND ONE (1) 3" CONDUIT TO CABLE SERVICE PROVIDER HUB. CONCEAL CONDUIT ABOVE THE CEILING WHEN NOT RUN IN UTILITY TYPE AREAS.
- 3 PROVIDE A J-HOOK SYSTEM ALONG THE CORRIDOR WALLS. THE J-HOOK SYSTEM SHALL BE SPACED HORIZONTALLY NO MORE THAN 24" APART. PROVIDE ELEVATION CHANGES AS NEEDED TO AVOID CONFLICTS WITH OTHER TRADES. PROVIDE STRUCTURAL SUPPORTS TO MOUNT J-HOOKS WHEN THERE IS NO WALL TO MOUNT TO. J-HOOKS SHALL BE EQUAL TO WIREMOLD #JH040606.
- 4 PROVIDE ONE 1" CONDUIT STUBBED FROM THE IDF TO UP ABOVE CEILING FOR OWNER PROVIDED ANTENNA. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 5 PROVIDE ZONE CONTROL MODULE FOR ACCESS CONTROL PROVIDER TO TIE INTO FIRE ALARM SYSTEM.
- 6 PROVIDE FIRE ALARM CONNECTION TO KITCHEN HOOD PER NFPA. FIRE ALARM SHALL SHUTOFF ALL EQUIPMENT POWER UNDER HOOD AND SUPPLY FANS.
- 7 PROVIDE CEILING MOUNTED 520-HERTZ AUDIBLE FIRE ALARM SPEAKER STROBE IN BUNK ROOM. FIRE ALARM CONTRACTOR TO INSURE 75-DB AT PILLOW.
- 8 PROVIDE WIREGUARDS ON ALL FIRE ALARM DEVICES IN THIS ROOM.
- 9 PROVIDE 4K HDMI SPLITTER SWITCH FOR THIS ROOM PROVIDE 2-INPUTS AND 4-OUTPUTS. NOTE THE OUTLETS IN THIS ROOM ARE INDICATED TO WHICH HDMI OUTLETS ARE INPUTS AND WHICH ONES ARE OUTPUTS. PROVIDE A COMPLETE HDMI SOLUTION AS NEEDED TO ACCOMPLISH SPLITTING OF HDMI IN THIS ROOM. NOTE THAT THE INPUTS ARE THE OUTLETS THAT ARE 18" AFF.
- 10 PROVIDE 4K HDMI SPLITTER SWITCH FOR THIS ROOM PROVIDE 1-INPUT AND 3-OUTPUTS. NOTE THE OUTLETS IN THIS ROOM ARE INDICATED TO WHICH HDMI OUTLETS ARE INPUTS AND WHICH ONES ARE OUTPUTS. PROVIDE A COMPLETE HDMI SOLUTION AS NEEDED TO ACCOMPLISH SPLITTING OF HDMI IN THIS ROOM. NOTE THAT THE INPUTS ARE THE OUTLETS THAT ARE 18" AFF.

RISER DIAGRAM KEYED NOTES:

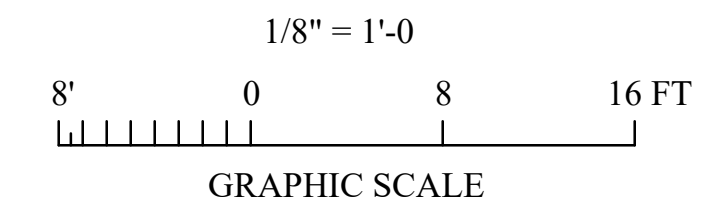
- 1 CONTRACTOR SHALL PROVIDE A 6 STRAND OM1 (62.5/125) MULTIMODE FIBER OPTIC CABLE (OSP) INTERCONNECTING THE MDF TO THE IDF. PROVIDE LC TYPE CONNECTIONS.

COMMUNICATION NOTES:

1. PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
2. TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDANT PAINT. MOUNT 2" AFF.
3. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
4. ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
5. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
6. PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
7. PROVIDE ALL CONDUITS WITH MINIMUM #800 MULE TAPE (PULL TAPE).
8. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
9. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
10. BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.



2 COMMUNICATIONS RISER DIGRAM
NO SCALE



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

REVISIONS	No.	Description	Date
0	ISSUED FOR REVIEW	01/16/23	
1	ISSUED FOR BID	02/03/23	
2	ADDENDUM #6	03/24/23	
3	CONFORMANCE	05/17/23	

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

AUXILIARY PLAN

Sheet No:

E4.1

CONFORMANCE DRAWINGS



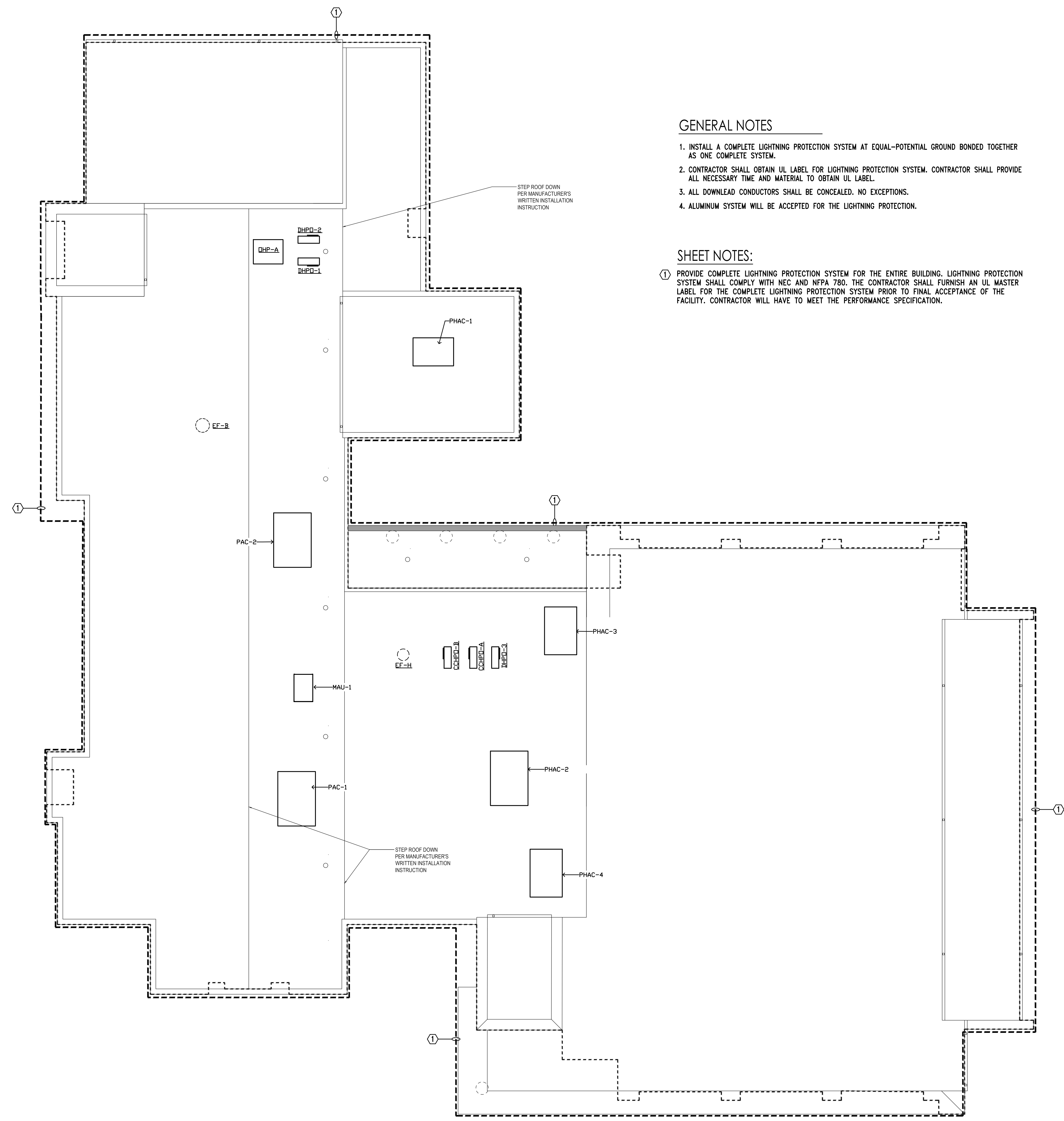
NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

GENERAL NOTES

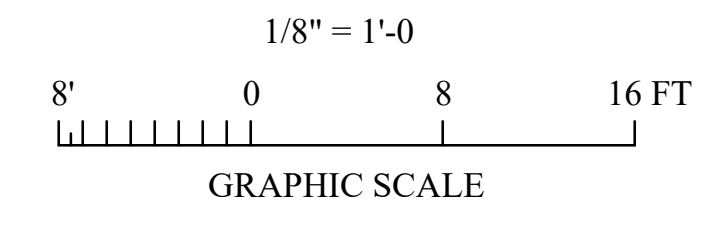
1. INSTALL A COMPLETE LIGHTNING PROTECTION SYSTEM AT EQUAL-POTENTIAL GROUND BONDED TOGETHER AS ONE COMPLETE SYSTEM.
2. CONTRACTOR SHALL OBTAIN UL LABEL FOR LIGHTNING PROTECTION SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY TIME AND MATERIAL TO OBTAIN UL LABEL.
3. ALL DOWNLEAD CONDUCTORS SHALL BE CONCEALED. NO EXCEPTIONS.
4. ALUMINUM SYSTEM WILL BE ACCEPTED FOR THE LIGHTNING PROTECTION.

SHEET NOTES:

- ① PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM FOR THE ENTIRE BUILDING. LIGHTNING PROTECTION SYSTEM SHALL COMPLY WITH NEC AND NFPA 780. THE CONTRACTOR SHALL FURNISH AN UL MASTER LABEL FOR THE COMPLETE LIGHTNING PROTECTION SYSTEM PRIOR TO FINAL ACCEPTANCE OF THE FACILITY. CONTRACTOR WILL HAVE TO MEET THE PERFORMANCE SPECIFICATION.



ROOF PLAN - LIGHTNING PROTECTION
SCALE: 1/8"=1'-0"



Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14 Millbrook, AL 36054
500 Southland Drive Suite 250 Hoover, AL 35226
Tel: 334.285.1273 GA#21-298

REVISIONS	No.	Description	Date
	0	ISSUED FOR REVIEW	01/16/23
	1	ISSUED FOR BID	02/03/23
	2	CONFORMANCE	05/17/23

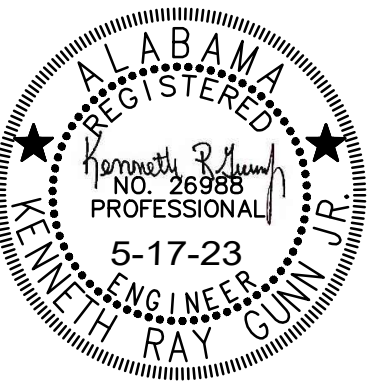
MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED

LIGHTNING PROTECTION PLAN

Sheet No:

E4.2

CONFORMANCE DRAWINGS



REVISIONS	No.	Description	Date
1	ISSUED FOR REVIEW	01/16/23	
2	ISSUED FOR BID	02/03/23	
3	ADDENDUM #6	03/24/23	
4	CONFORMANCE	05/17/23	

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By: _____
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

PANELBOARD
SCHEDULES

Sheet No:

E5.1

CONFORMANCE
DRAWINGS

GA Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14 500 Southland Drive Suite 250
Millbrook, AL 36054 Hoover, AL 35226
Tel: 334.285.1273 GA/21-298

PANEL - DPE												
TYPE: 800 AMP MAIN BREAKER			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
PANEL 'RP1E'	15,200	16,800	15,800	225	3	1	2	20	1	2	20	BUSSED SPACE
PANEL 'LPE'	7,240	6,240	7,780	125	3	7	8	100	1	9	100	PANEL 'FP'
BUSSED SPACE						13	14	125	3	13	14	BUSSED SPACE
BUSSED SPACE						15	16			15	16	BUSSED SPACE
BUSSED SPACE						17	18			17	18	BUSSED SPACE
BUSSED SPACE						19	20	225		19	20	BUSSED SPACE
BUSSED SPACE						21	22			21	22	BUSSED SPACE
BUSSED SPACE						23	24			23	24	BUSSED SPACE
BUSSED SPACE						25	26	400		25	26	PANEL 'RP2E'
BUSSED SPACE						27	28			27	28	BUSSED SPACE
BUSSED SPACE						29	30			29	30	BUSSED SPACE
SUB TOTAL (VA)	22,440	23,040	23,580			38,525	36,800	37,400				SUB TOTAL (VA)
TOTAL LOAD PHASE A:	60,965 (VA)									NOTES:		
TOTAL LOAD PHASE B:	59,840 (VA)									1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.		
TOTAL LOAD PHASE C:	60,980 (VA)									2. PROVIDE PANEL WITH INTERGRAL TVSS UNIT, 125K PER MODE PROTECTION.		
TOTAL LOAD:	181,785 (VA) = 505 AMPS									3. PROVIDE NAMEPLATES PER DETAILS 1/E5.2.		

PANEL - LPE													
TYPE: 125 AMP MAIN LUGS			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY	
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C		
TRUCK BAY LTS	1,700			20	1	1	2	20	1	1	2	20	SECURITY LIGHTS
TRUCK BAY LTS		1,650		20	1	3	4	20	1	3	4	20	BLDG LIGHTS
STORALINDRY/VTLT.LTS			1,600	20	1	5	6	20	1	5	6	20	SECURITY LIGHTS
KIT/LOUNGE/VEST.LTS	1,400			20	1	7	8	20	1	7	8	20	BLDG LIGHTS
OFFICER'S QTRS LTS		1,340		20	1	9	10	20	1	9	10	20	FLAGPOLE LIGHT
CORRIDOR LTS			1,600	20	1	11	12	20	1	11	12	20	SITE LIGHTS
BUNK LTS	1,050			20	1	13	14	20	1	13	14	20	SITE LIGHTS
BATH/BUNK LTS		1,120		20	1	15	16	20	1	15	16	20	IRRIGATION
MEETING LTS			1,730	20	1	17	18	20	1	17	18	20	BUILDING SIGNAGE
TRAINING LTS	450			20	1	19	20	20	1	19	20	20	FRONT TOWER TAPE LIGHT
TIMECLOCK		600		20	1	21	22	20	1	21	22	20	FRONT TOWER INT. LIGHTS
SPARE				20	1	23	24	20	1	23	24	20	SIDE TOWER TAPE LIGHT
SPARE				20	1	25	26	20	1	25	26	20	SPARE
SPARE				20	1	27	28	20	1	27	28	20	SPARE
SPARE				20	1	29	30	20	1	29	30	20	SPARE
BUSSED SPACE				50	1	31	32	50	1	31	32	50	BUSSED SPACE
BUSSED SPACE				50	1	33	34	50	1	33	34	50	BUSSED SPACE
BUSSED SPACE				50	1	35	36	50	1	35	36	50	BUSSED SPACE
BUSSED SPACE				50	1	37	38	50	1	37	38	50	BUSSED SPACE
BUSSED SPACE				50	1	39	40	50	1	39	40	50	BUSSED SPACE
BUSSED SPACE				50	1	41	42	50	1	41	42	50	BUSSED SPACE
SUB TOTAL (VA)	4,600	4,710	4,930			2,640	1,550	3,330				SUB TOTAL (VA)	
TOTAL LOAD PHASE A:	7,240 (VA)									NOTES:			
TOTAL LOAD PHASE B:	6,260 (VA)									1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.			
TOTAL LOAD PHASE C:	8,260 (VA)									2. PROVIDE NAMEPLATE PER DETAIL 1/E5.2.			
TOTAL LOAD:	21,760 (VA) = 60 AMPS									3. PROVIDE NAMEPLATE PER DETAIL 1/E5.2.			

PANEL - RP1E												
TYPE: 225 AMP MAIN LUGS			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
FACP (NOTE 4)	800			20	1	1	2	30	2	2,800		UPS
SECURITY SYSTEM		600		20	1	3	4	30	2	2,800		UPS
IT REC			600	20	1	5	6	30		2,800		UPS
IT REC	600			20	1	7	8	30	2	2,800		UPS
IT REC		600		20	1	9	10	30	1	2,600		UPS
IT REC			600	20	1	11	12	30	1	2,600		UPS
IT REC	600			20	1	13	14	20	1	1,200		FLOOR OUTLET
REFRIG (NOTE 5)		1,800		20	1	15	16	20	1	1,200		FLOOR OUTLET
CLASSROOM REC			1,200	20	1	17	18	20	1	1,200		FLOOR OUTLET
CLASSROOM REC	1,200			20	1	19	20	20	1	1,200		FLOOR OUTLET
CLASSROOM REC		1,200		20	1	21	22	20	1	1,200		FLOOR OUTLET
OFFICE REC			1,200	20	1	23	24	20	1			SPARE
OFFICE REC	1,200			20	1	25	26	20	1			SPARE
TRAINING REC		1,200		20	1	27	28	20	1			SPARE
TRAINING REC			1,200	20	1	29	30	20	1			SPARE
TRAINING REC	1,200			20	1	31	32	50	1			BUSSED SPACE
SMOKE DETECT. (NOTE 4)		600		20	1	33	34	50	1			BUSSED SPACE
GEN. RECEPT.			200	20	1	35	36	50	1			BUSSED SPACE
GEN. BATTERY CHARGER	600			20	1	37	38	50	1			BUSSED SPACE
GEN. JACKET HEATER		1,800		20	1	39	40	50	1			BUSSED SPACE
BUSSED SPACE			1,800	20	1	41	42	50	1			BUSSED SPACE
SUB TOTAL (VA)	6,000	7,800	6,800			8,000	7,800	7,800				SUB TOTAL (VA)
TOTAL LOAD PHASE A:	14,000 (VA)									NOTES:		
TOTAL LOAD PHASE B:	15,600 (VA)									1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.		
TOTAL LOAD PHASE C:	14,600 (VA)									2. PROVIDE NAMEPLATE PER DETAIL 1/E5.2.		
TOTAL LOAD:	44,200 (VA) = 123 AMPS									3. PROVIDE LABEL ON EXTERIOR OF ENCLOSURE STATING 'FACP'.		
										4. PROVIDE RED HANDLE LOCK-ON DEVICE.		
										5. PROVIDE GFI TYPE BREAKER.		

PANEL - RP1												
TYPE: 225 AMP MAIN LUGS			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
GENERAL REC	800			20	1	1	2	20	1	600		GAS WH-1 & 2 & TC
EWIC (NOTE 3)		1,200		20	1	3	4	20	1	600		CP-1
COFFEE			1,800	20	1	5	6	30	1	1,800		CP-2
GENERAL REC	1,200			20	1	7	8	20	1	1,000		ROOF REC
BATH REC		1,200		20	1	9	10	20	1	400		IRRIGATION
BATH REC			1,200	20	1	11	12	20	1			UV LTS & DAMPER
BATH REC	1,200			20	1	13	14	20	1			SPARE
BATH REC		1,200		20	1	15	16	20	1			SPARE
BATH REC			1,200	20	1	17	18	20	1			SPARE
GENERAL REC	1,200			20	1	19	20	20	1			SPARE
BATH REC		1,200		20	1	21	22	20	1			SPARE
BUNK REC			600	20	1	23	24	20	1			SPARE
BUNK REC	600			20	1	25	26	50	1			BUSSED SPACE
BUNK REC		600		20	1	27	28	50	1			BUSSED SPACE
BUNK REC			600	20	1	29	30	50	1			BUSSED SPACE
BUNK REC	600			20	1	31	32	50	1			BUSSED SPACE
BUNK REC		600		20	1	33	34	50	1			BUSSED SPACE
BUNK REC			600	20	1	35	36	50	1			BUSSED SPACE
BUNK REC	600			20	1	37	38	50	1			BUSSED SPACE
BUNK REC		600		20	1	39	40	50	1			BUSSED SPACE
BUNK REC			600	20	1	41	42	50	1			BUSSED SPACE
SUB TOTAL (VA)	6,000	6,600	6,600			1,600	1,000	2,180				SUB TOTAL (VA)
TOTAL LOAD PHASE A:	7,600 (VA)									NOTES:		
TOTAL LOAD PHASE B:	7,600 (VA)									1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.		
TOTAL LOAD PHASE C:	8,780 (VA)									2. PROVIDE NAMEPLATE PER DETAIL 1/E5.2.		
TOTAL LOAD:	23,980 (VA) = 67 AMPS									3. PROVIDE GFI TYPE BREAKER.		

PANEL - RP2												
TYPE: 225 AMP MAIN LUGS			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B										



PANEL - RP2E												
TYPE: 400 AMP MAIN LUGS			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
SECURITY SYSTEM	600	600	600	30	2	1 2	30	2	2,800	2,800	2,800	UPS
IT REC	600	600	600	30	2	3 4	30	2	2,800	2,800	2,800	UPS
IT REC	600	600	600	30	2	5 8	30	2	2,800	2,800	2,800	UPS
COMMAND WATCH REC	600	600	600	30	2	7 8	30	2	2,800	2,800	2,800	UPS
COMMAND WATCH REC	600	600	600	30	2	9 10	30	1	2,800	2,800	2,800	UPS
COMMAND WATCH REC	600	600	600	30	2	11 12	30	1	2,800	2,800	2,800	UPS
FREEZER (NOTE 3)	600	600	600	20	1	13 14	20	1	600	600	600	CONTROL PANEL
FREEZER (NOTE 3)	600	600	600	20	1	15 16	20	1	600	600	600	CONTROL PANEL
REFRIG (NOTE 3)	600	600	600	20	1	17 18	20	1	2,800	2,800	2,800	OVERHEAD DOOR
FREEZER (NOTE 3)	600	600	600	20	1	19 20	30	2	2,800	2,800	2,800	OVERHEAD DOOR
ICE MACH	1,525	1,525	1,525	20	1	21 22	20	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	23 24	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	25 26	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	27 28	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	29 30	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	31 32	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	33 34	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	35 36	30	2	2,800	2,800	2,800	OVERHEAD DOOR
CORD REEL	1,200	1,200	1,200	20	1	37 38	30	2	2,800	2,800	2,800	OVERHEAD DOOR
SPARE	600	600	600	20	1	39 40	30	2	2,800	2,800	2,800	OVERHEAD DOOR
INTERCOM SYSTEM	600	600	600	20	1	41 42	20	2	2,800	2,800	2,800	SPARE
COMPRESSOR	5,800	5,800	5,800	90	3	43 44	20	1	45 46	45 46	45 46	SPARE
	5,800	5,800	5,800	90	3	47 48	20	1	49 50	49 50	49 50	SPARE
MEDIC OFF REC	1,200	1,200	1,200	20	1	51 52	20	1	53 54	53 54	53 54	SPARE
MEDIC OFF REC	1,200	1,200	1,200	20	1	55 56	20	1	57 58	57 58	57 58	SPARE
MEDIC OFF REC	1,200	1,200	1,200	20	1	59 60	20	1	61 62	61 62	61 62	SPARE
SUPP OFF REC	1,200	1,200	1,200	50	1	63 64	50	1	65 66	65 66	65 66	BUSSED SPACE
SUPP OFF REC	1,200	1,200	1,200	50	1	67 68	50	1	69 70	69 70	69 70	BUSSED SPACE
SUPP OFF REC	1,200	1,200	1,200	50	1	71 72	50	1	73 74	73 74	73 74	BUSSED SPACE
SUPP OFF REC	1,200	1,200	1,200	50	1	75 76	50	1	77 78	77 78	77 78	BUSSED SPACE
BUNK REC	600	600	600	50	1	79 80	50	1	81 82	81 82	81 82	BUSSED SPACE
BATH REC	1,200	1,200	1,200	50	1	83 84	50	1	85 86	85 86	85 86	BUSSED SPACE
BATH REC	1,200	1,200	1,200	50	1	87 88	50	1	89 90	89 90	89 90	BUSSED SPACE
BATH REC	1,200	1,200	1,200	50	1	91 92	50	1	93 94	93 94	93 94	BUSSED SPACE
BATH REC	1,200	1,200	1,200	50	1	95 96	50	1	97 98	97 98	97 98	BUSSED SPACE
BATH REC	1,200	1,200	1,200	50	1	99 100	50	1	101 102	101 102	101 102	BUSSED SPACE
SUB TOTAL (VA)	16,925	16,600	16,600						16,800	17,200	17,200	SUB TOTAL (VA)
TOTAL LOAD PHASE A:		33,725 (VA)										
TOTAL LOAD PHASE B:		33,800 (VA)										
TOTAL LOAD PHASE C:		33,800 (VA)										
TOTAL LOAD:		101,325 (VA) =	281 AMPS									

PANELBOARD NOTES:

- PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
- ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
- PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
- FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
- ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
- PANELBOARDS SHALL BE FULLY RATED EXCEPT WHERE GFI BREAKERS ARE REQUIRED IN PANELS RATED OVER 22KAIC.
- ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
- ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
- COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
- EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.
- MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT SHALL BE RESPONSIBLE FOR PERFORMING A SHORT CIRCUIT ANALYSIS AND TIME-CURRENT COORDINATION (TCC) STUDY, WHICH DEMONSTRATES THAT THE UPSTREAM OVERCURRENT PROTECTIVE DEVICE NEAREST TO THE FAULT LOCATION WILL OPERATE BEFORE OVERCURRENT PROTECTIVE DEVICES WHICH ARE FURTHER UPSTREAM (I.E. SELECTIVE COORDINATION). INCLUDE COORDINATION STUDY IN THE SHOP DRAWING PACKAGE FOR THE PANELBOARDS FOR REVIEW BY THE ENGINEER OF RECORD. AIC RATINGS MAY BE LOWERED BASED ON STUDY.
- "POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE ANY AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO JOB SITE AS REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

EQUIPMENT NOTE:

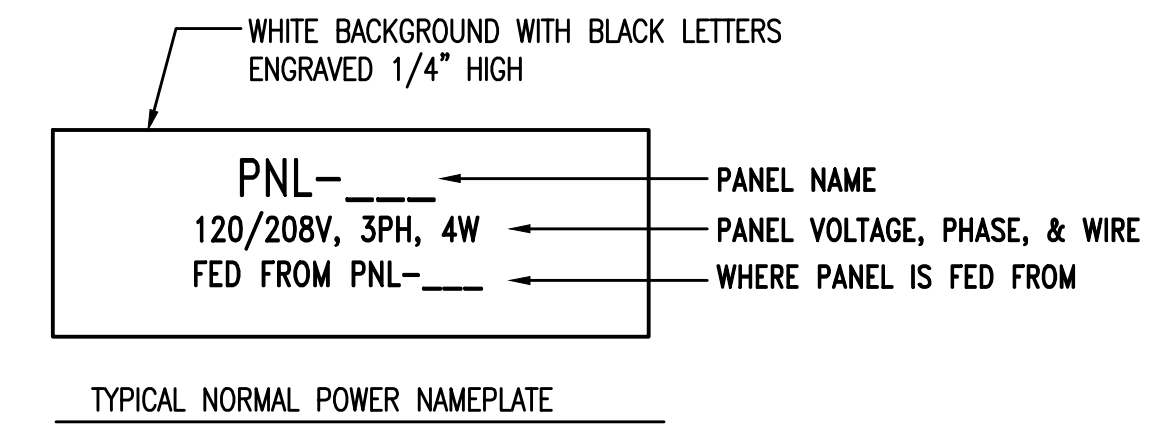
POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE ANY AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO JOB SITE AS REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING TO PUBLISHED SCHEDULE IN BID DOCUMENTS.

POWER RISER DIAGRAM GENERAL NOTES:

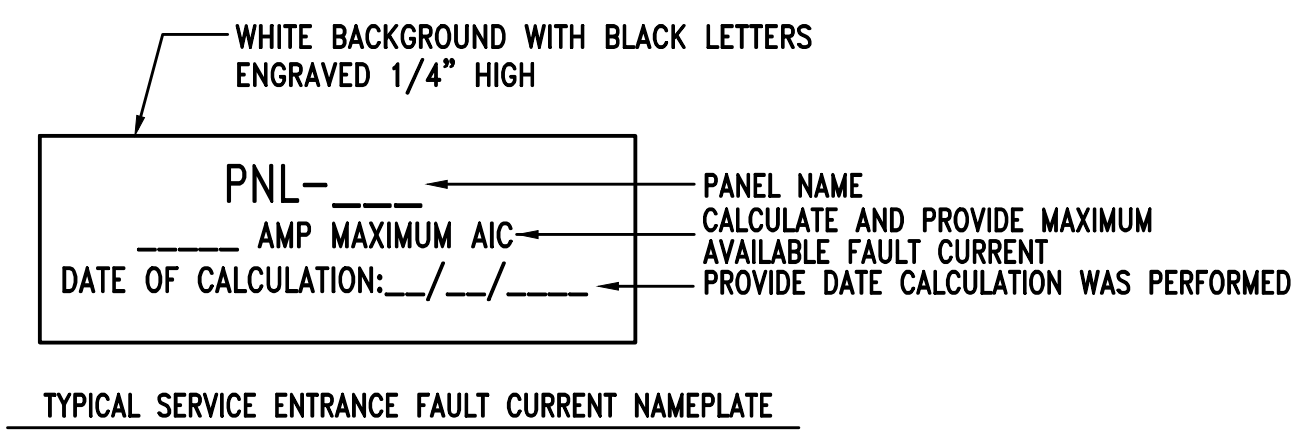
- INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
- CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
- SEE POWER PLAN ON SHEET ES.1 FOR INTERIOR ELECTRICAL EQUIPMENT LAYOUT.
- SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED. SEE DETAIL 4 ON THIS SHEET.
- ELECTRICAL CONTRACTOR IS TO PROVIDE ALL MATERIAL AND LABOR TO INSTALL ELECTRICAL EQUIPMENT AS SHOWN.
- EMERGENCY SYSTEM WIRING SHALL BE IN COMPLIANCE WITH NEC 2011 ARTICLE 700.10.

POWER RISER SHEET NOTES:

- AUTOMATIC TRANSFER SWITCH FOR PANEL 'SE'. 208Y/120V, 800A, 4P, 65K AIC, NEMA 3R, SWITCHED NEUTRAL, S.E. RATED. PROVIDE GENERATOR CIRCUIT BREAKER WITH LOCK-OUT PROVISION.
- 3/4" TO REMOTE ANNUNCIATOR.
- PROVIDE FOUR (4) PARALLEL RUNS OF 4#600KCMIL, 4"C. MIN. BURIAL DEPTH OF 36" BELOW GRADE.
- EMERGENCY MANUAL GENERATOR STOP BUTTON. PROVIDE 3/4"GRD AND WIRING AS REQUIRED PER GENERATOR MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATION WITH LOCAL FIRE MARSHAL PRIOR TO ROUGHING-IN. PROVIDE SEAL-OFF FITTING AT THIS LOCATION AND AT LOCATION WHERE CONTROLS AND ANNUNCIATOR PANEL ENTER BUILDING AND GENERATOR ENCLOSURE.
- PROVIDE TWO (2) PARALLEL RUNS OF 5" SCHEDULE 40 PVC CONDUITS WITH PULL WIRE FROM PROPERTY LINE TO PAD-MOUNTED TRANSFORMER PAD. COORDINATE WITH LOCAL UTILITY CO. FOR EXACT ROUTING AND TERMINATION POINT OF PRIMARY CONDUITS PRIOR TO BID. 48" MIN BURIAL DEPTH.
- PROVIDE TWO (2) PARALLEL RUNS OF 4#3/0, 1#6G, 2 1/2"C.
- PROVIDE 4#4/0, 1#4 GRD., 2 1/2"C.
- PROVIDE 4#1, 1#8 GRD., 2"C.
- PROVIDE 4#1/0, 1#8 GRD., 2"C. MIN. BURIAL DEPTH OF 36" BELOW GRADE.
- PROVIDE THREE (3) PARALLEL RUNS OF 4#300KCMIL, 1#2/0G., 3 1/2"C.
- PROVIDE THREE (3) PARALLEL RUNS OF 4#300KCMIL, 1#2/0G., 3 1/2"C. MIN. BURIAL DEPTH OF 36" BELOW GRADE.
- PROVIDE TWO (2) PARALLEL RUNS OF 4#350KCMIL, 1#1G., 3 1/2"C.
- PROVIDE SHUNT TRIP SWITCH ON EXTERIOR OF THE BUILDING. SWITCH SHALL BE RED MUSHROOM TYPE WITH MOMENTARY CONTACTS TO KILL POWER TO THE MAIN SHUNT TRIP CIRCUIT BREAKER IN SWITCHBOARD 'MSB'. LABEL SWITCH "EMERGENCY POWER OFF" IN RED BACKGROUND WITH 1" WHITE LETTERS. PROVIDE SWITCH IN HOUSING WITH WEATHPROOF BREAKGLASS COVER. PROVIDE INTERCONNECTING WIRING IN CONDUIT TO THE SHUNT TRIP CIRCUIT BREAKER IN PANEL.
- PROVIDE SHUNT TRIP SWITCH ON EXTERIOR OF THE BUILDING. SWITCH SHALL BE RED MUSHROOM TYPE WITH MOMENTARY CONTACTS TO KILL POWER TO THE MAIN SHUNT TRIP CIRCUIT BREAKER IN PANELBOARD 'PP'. LABEL SWITCH "EMERGENCY POWER OFF" IN RED BACKGROUND WITH 1" WHITE LETTERS. PROVIDE SWITCH IN HOUSING WITH WEATHPROOF BREAKGLASS COVER. PROVIDE INTERCONNECTING WIRING IN CONDUIT TO THE SHUNT TRIP CIRCUIT BREAKER IN PANEL. VERIFY LOCATION WITH OWNER PRIOR TO BID.

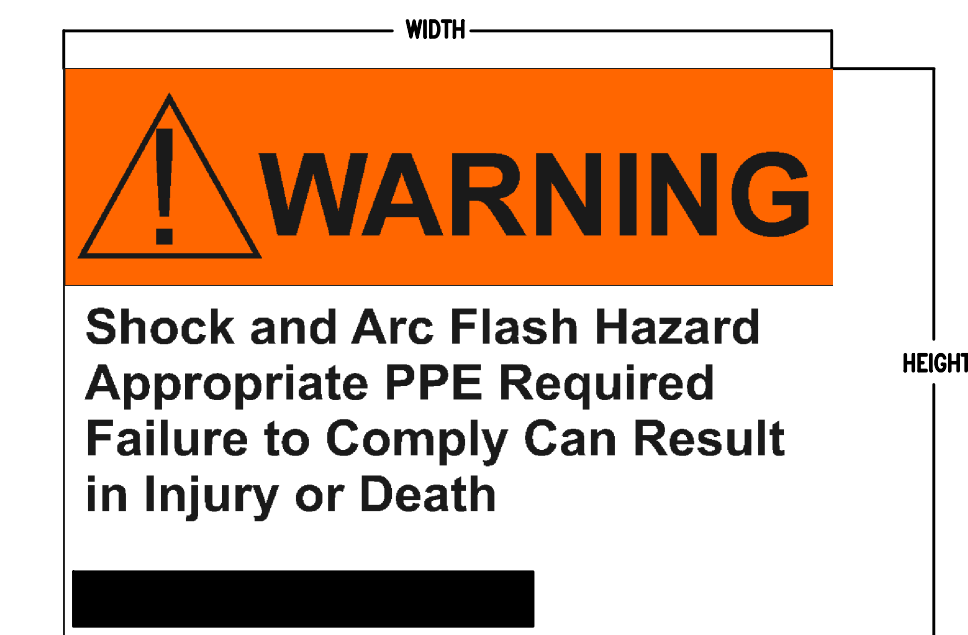


1 DETAIL - TYPICAL PANELBOARD NAMEPLATE
ES.2 NO SCALE

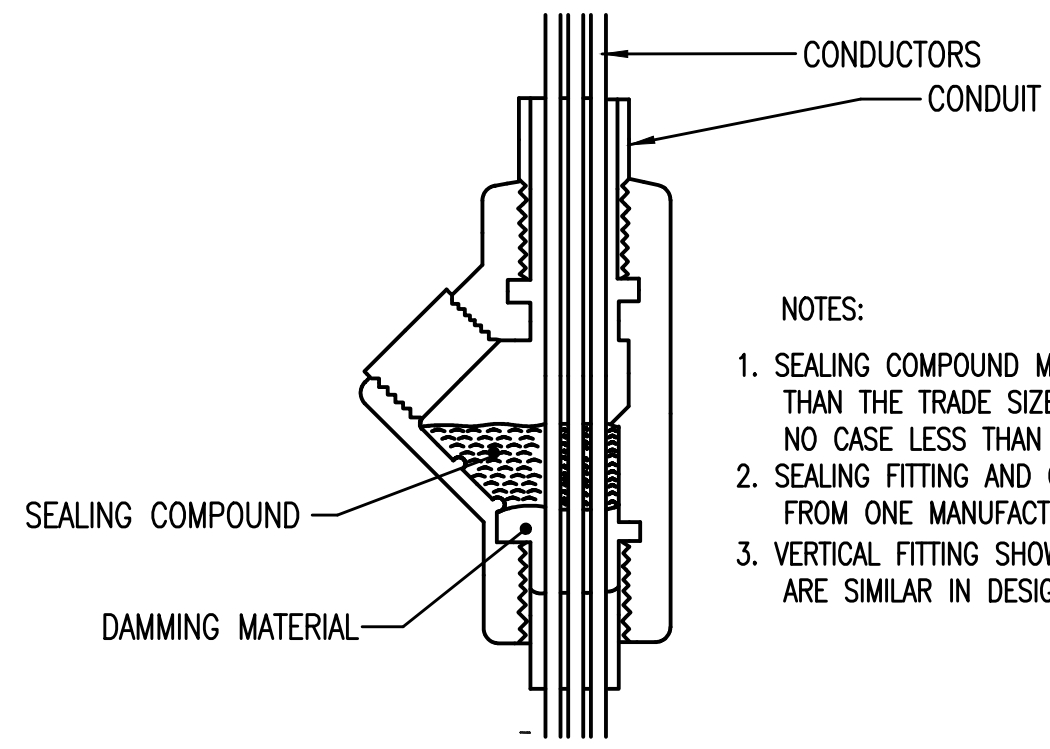


2 DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE
ES.2 NO SCALE

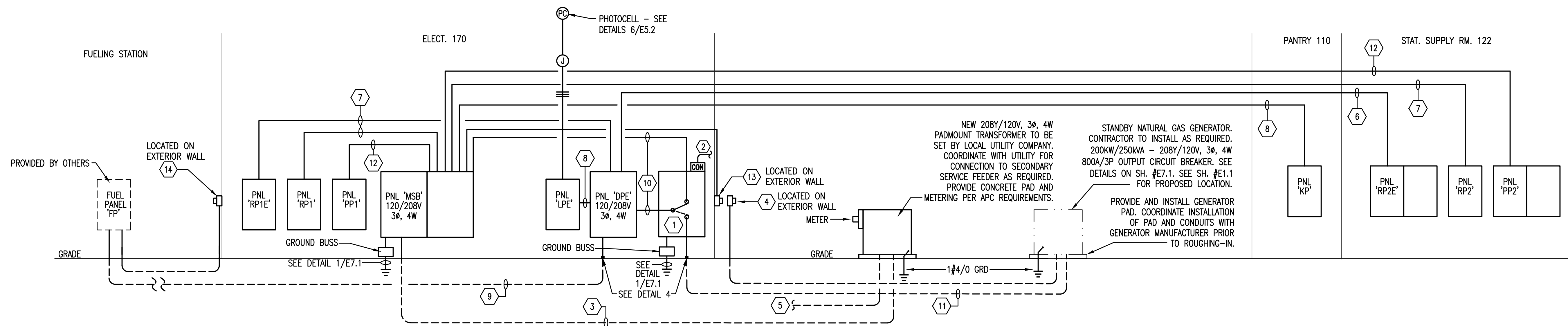
3 DETAIL - ARC FLASH WARNING LABELS
ES.2 NO SCALE



- NOTES:**
- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
 - THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
 - THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
 - THE SIZE OF THE LABEL SHALL BE:
EQUIPMENT TYPE HEIGHT WIDTH
INDOOR 4" 6"
OUTDOOR 4" 6"



4 DETAIL - TYPICAL SEALING FITTING INSTALLATION
ES.2 NO SCALE



5 POWER RISER DIAGRAM
ES.2 NO SCALE

REVISIONS		
No.	Description	Date
0	ISSUED FOR REVIEW	01/16/23
1	ISSUED FOR BID	02/03/23
2	CONFORMANCE	05/17/23

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Drawn By:
Date: 11-15-2022
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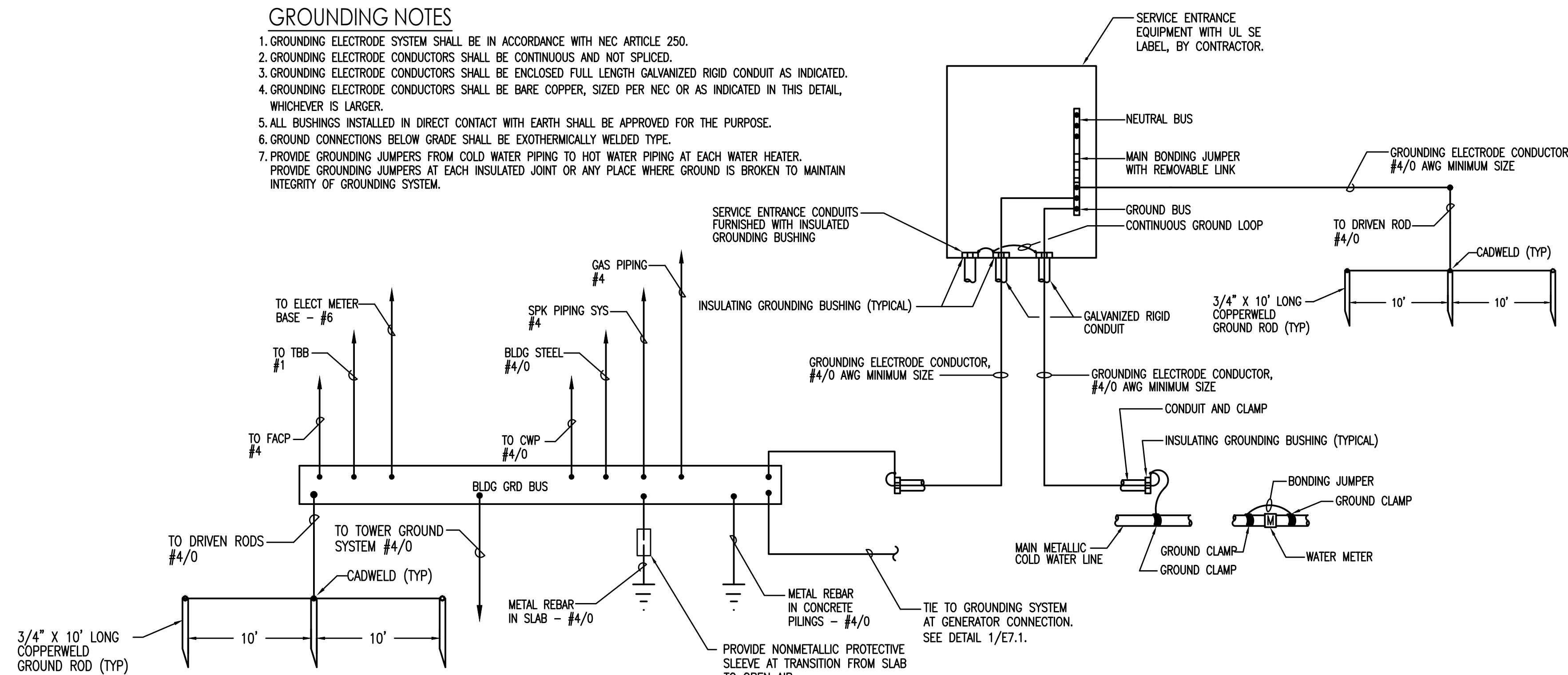
PANELBOARD SCHEDULES, NOTES, & DETAILS

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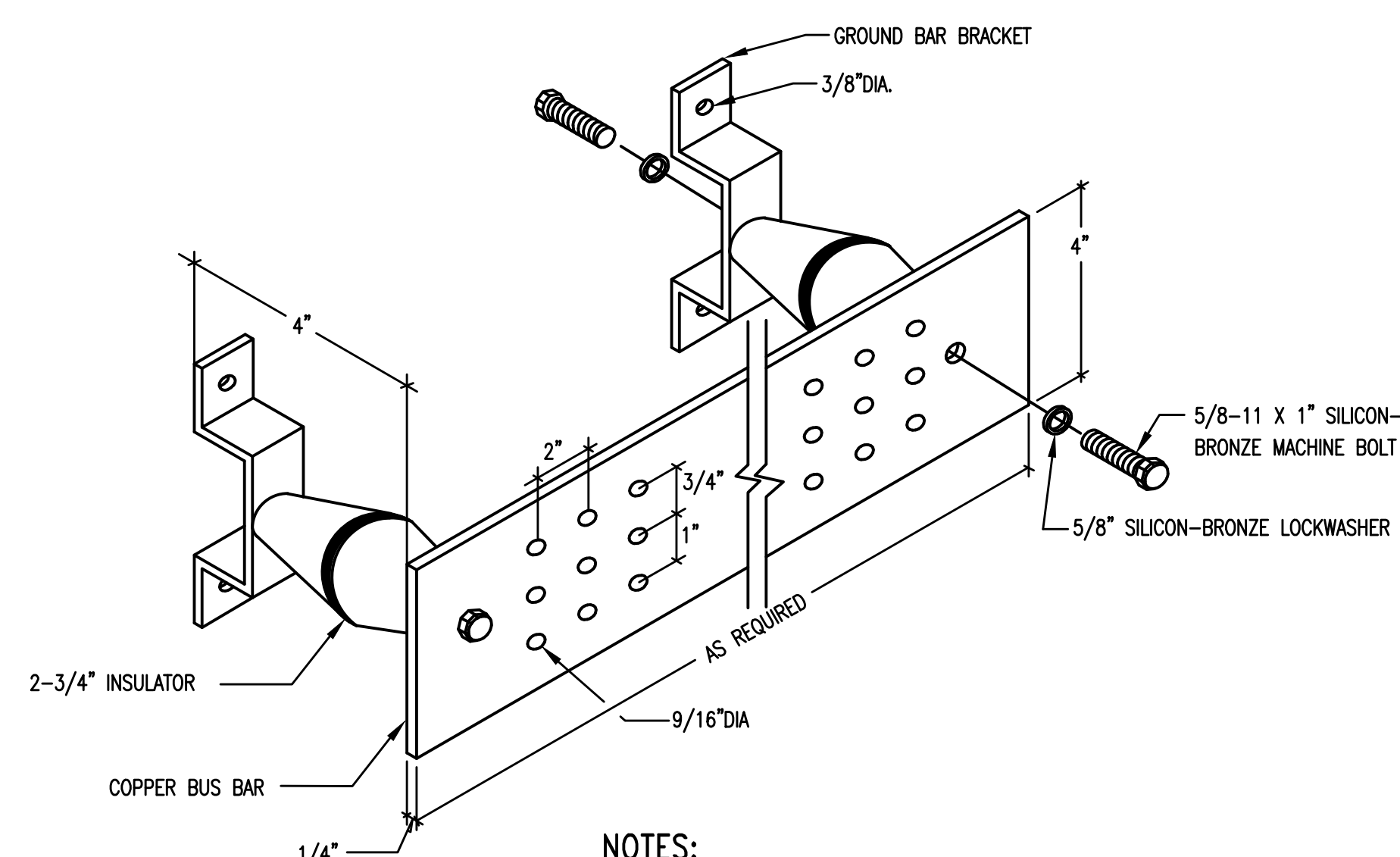
E5.2

GROUNDING NOTES

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER, SIZED PER NEC OR AS INDICATED IN THIS DETAIL, WHICHEVER IS LARGER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



2 DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION
NO SCALE



NOTES:

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.
4. LENGTH OF BUS BAR SHALL BE AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS PLUS 25% SPARE CAPACITY SPACE OR AS SPECIFIED OTHERWISE.
5. BUS BARS OVER 20\"/>

2 DETAIL - TYPICAL GROUND BUS INSTALLATION
NO SCALE

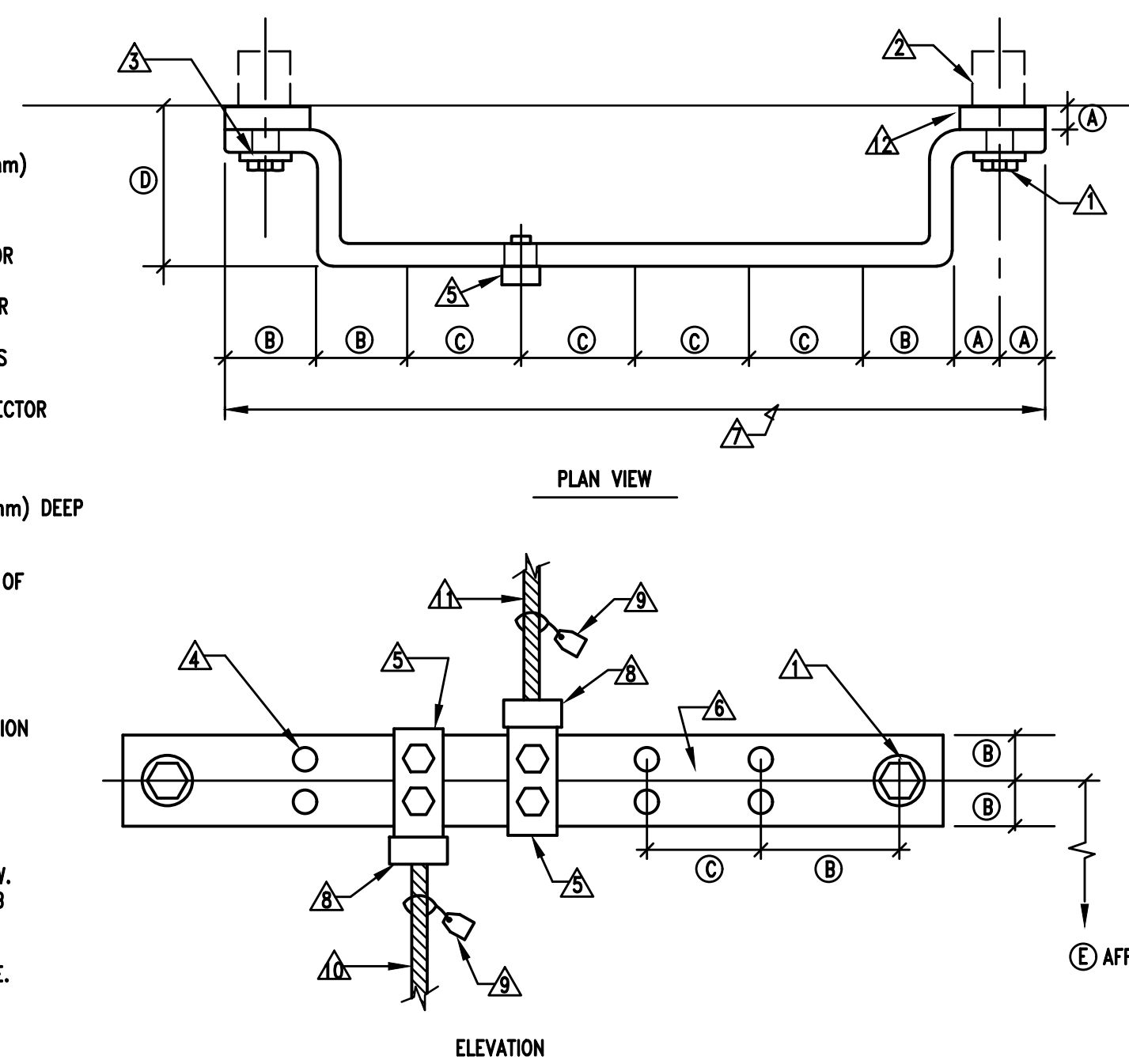
REF	ENGLISH	SI
A	1/2"	12.7mm
B	2"	50.8mm
C	2 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	457mm

GROUND BUS NOTES

1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.

KEYED NOTES

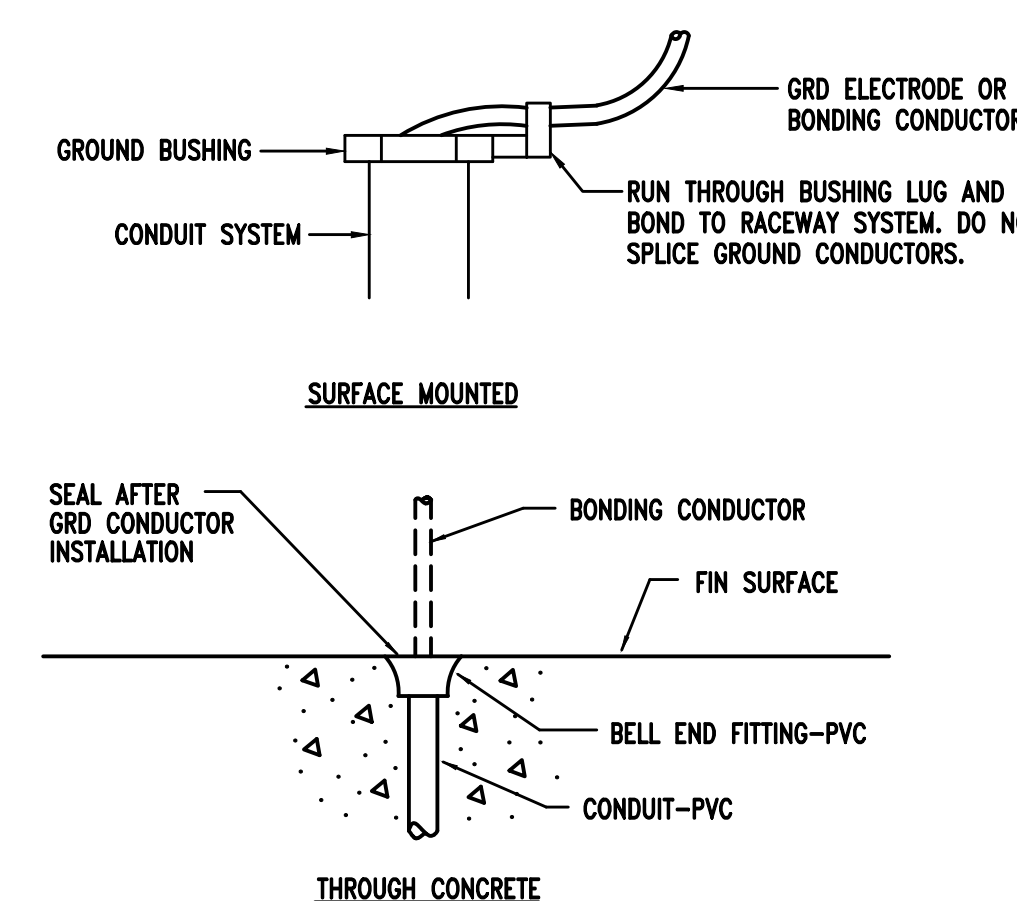
- ▲ 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
- ▲ 1/2" (12.7mm) EXPANSION ANCHOR
- ▲ 9/16" (14.2875mm) HOLE IN BAR
- ▲ DRILLED DOUBLE CONNECTOR HOLES
- ▲ FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #4/0 (SINGLE LUGS ONLY)
- ▲ 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
- ▲ LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
- ▲ TYP CU GRD CONDUCTOR CONNECTION
- ▲ DESCRIPTION TAG, STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
- ▲ TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
- ▲ TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
- ▲ INSULATED NON-CONDUCTIVE SPACER



3 DETAIL - TYPICAL GROUND BUS INSTALLATION
NO SCALE

GROUNDING AND BONDING INSTALLATION NOTES

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC., AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
 - a. PROVIDE A SOLIDLY GROUND SECONDARY SYSTEM.
 - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
 - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
 - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
 - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
 - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.



NOTES

1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT. PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT. PROVIDE BELL END FITTING ON EACH END AND SEAL. THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.

4 DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM
NO SCALE

NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS	No.	Description	Date
	0	ISSUED FOR REVIEW	01/16/23
	1	ISSUED FOR BID	02/03/23
	2	CONFORMANCE	05/17/23

MGM Project No. SP-5-21
BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

ELECTRICAL
GROUNDING DETAILS

Sheet No:

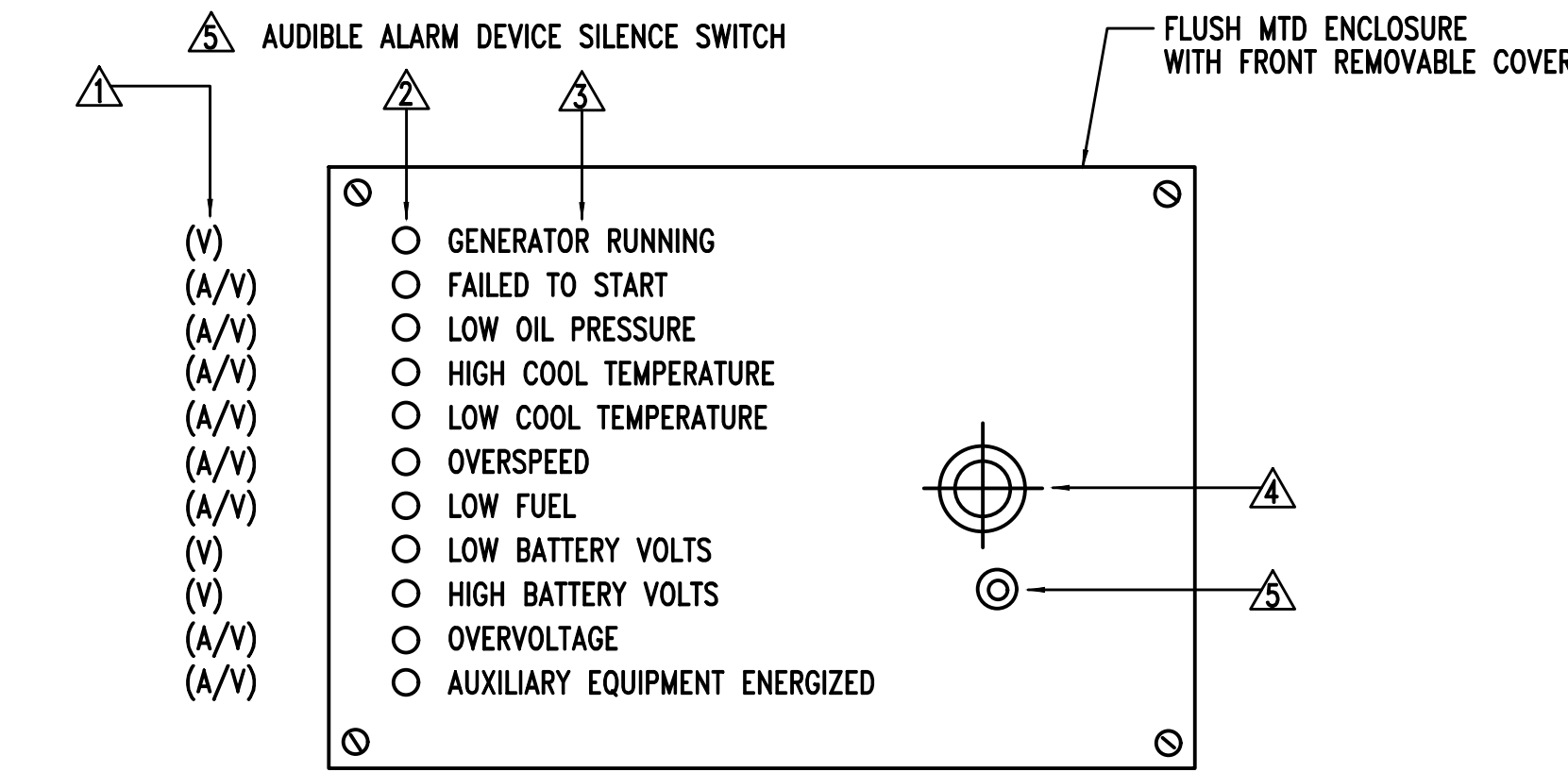
E6.1

STANDBY GENERATOR SYSTEM NOTES

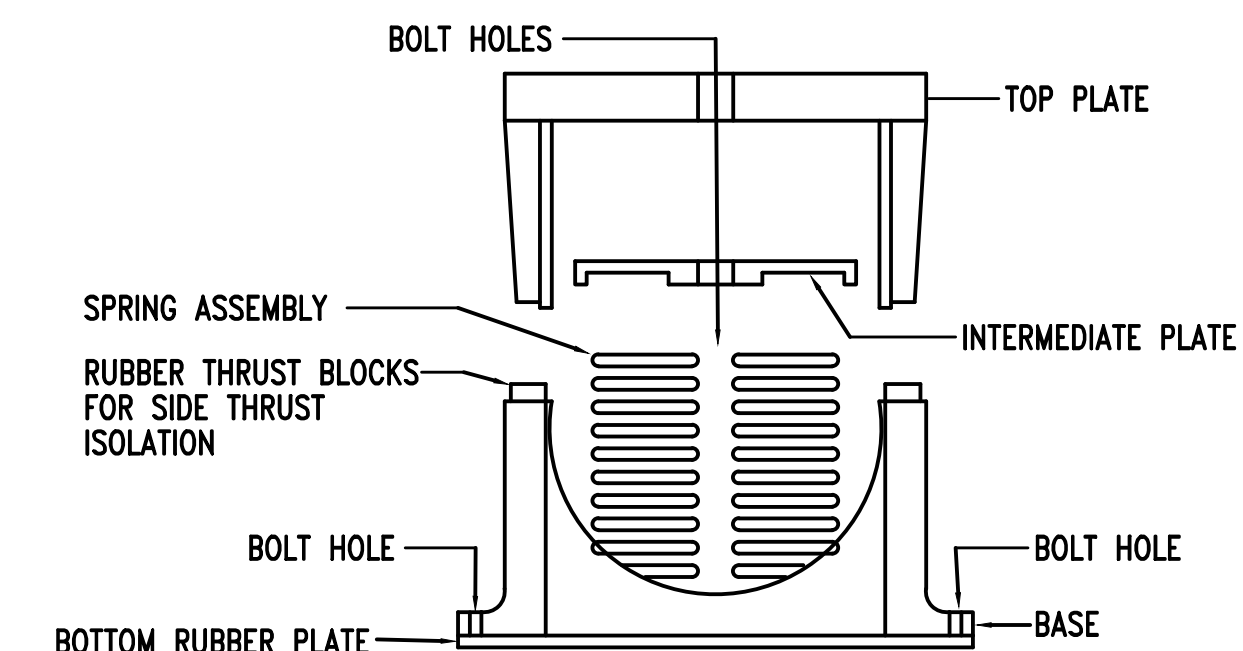
- STANDBY GENERATOR SYSTEM SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING:
 - GENERATOR SETS
 - NATURAL GAS PIPING SYSTEM FOR GENERATOR
 - POWER SYSTEM
 - AUTOMATIC TRANSFER SYSTEM
 - CONTROLS
 - STARTING SYSTEM
 - COOLING SYSTEM
 - EXHAUST SYSTEM
 - LUBRICATION SYSTEM
- INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), NEMA, NESC AND NATIONAL FIRE PROTECTION AGENCY (NFPA).
- ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, FRAMES, ETC., SHALL BE GROUNDED.
- ALL CLEARANCES SHALL BE MAINTAINED PER NESC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
- ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- WIRING SYSTEMS SHALL BE IN ACCORDANCE WITH NEC AND THE FOLLOWING:
 - SEE SINGLE LINE DIAGRAM FOR POWER SYSTEM REQUIREMENTS.
 - CONTROL WIRING SHALL BE INSTALLED IN CONDUITS INDICATED. WIRING TO BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR THE EQUIPMENT SPECIFIED. COORDINATE WITH SHOP DRAWINGS.
 - PROVIDE FLEXIBLE CONDUIT CONNECTIONS TO THE GENERATOR SET.

GENERATOR ANNUNCIATOR KEY NOTES

- △ COLUMN SHOWN INDICATES TYPE OF MALFUNCTION SIGNAL AT THE REMOTE PANEL (V - VISUAL, A/V - AUDIBLE AND VISUAL).
- △ LED LAMP INDICATORS
- △ LAMP LEGEND
- △ AUDIBLE ALARM DEVICE
- △ AUDIBLE ALARM DEVICE SILENCE SWITCH



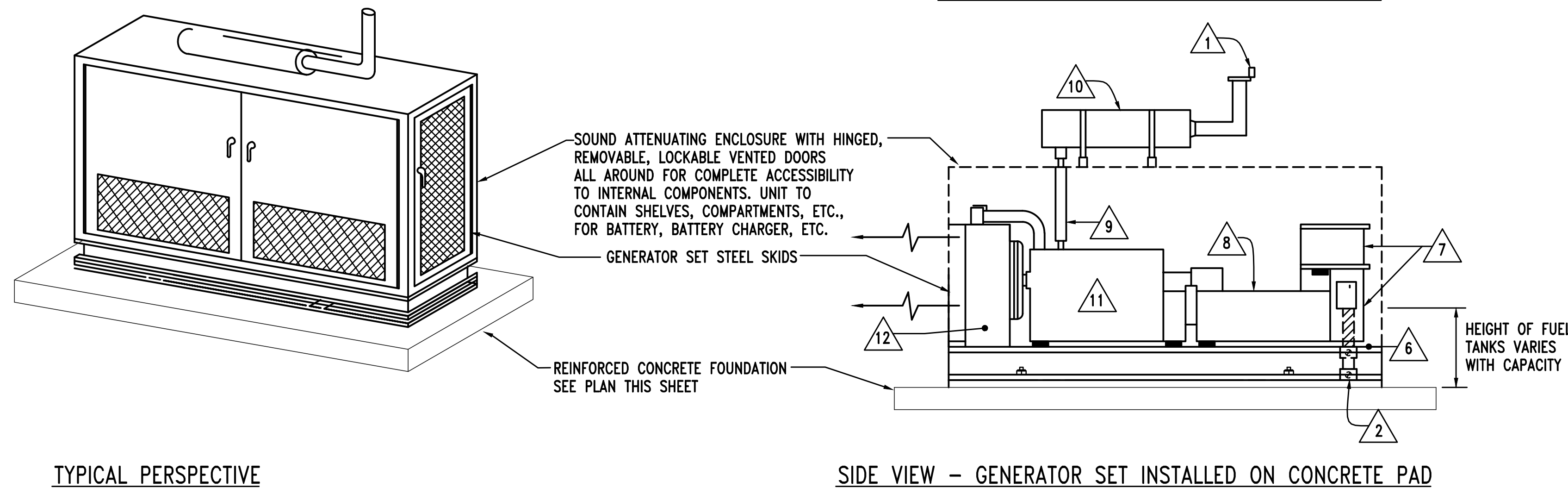
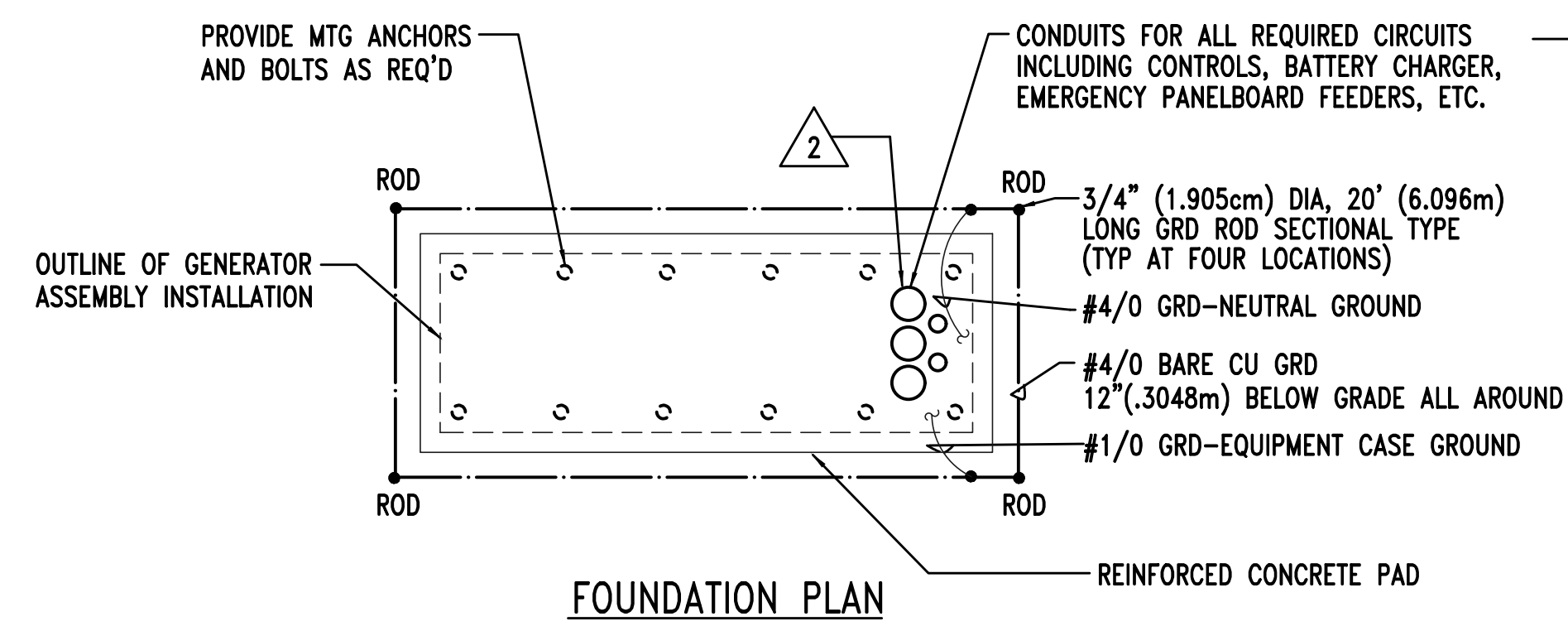
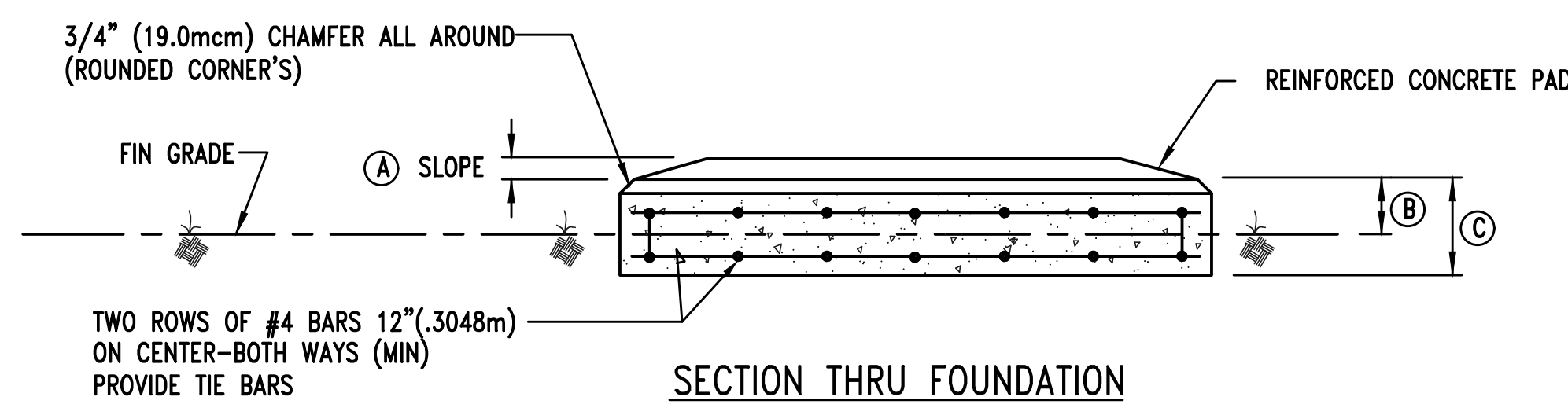
3 DETAIL - REMOTE GENERATOR ANNUNCIATOR PANEL "GA" NO SCALE



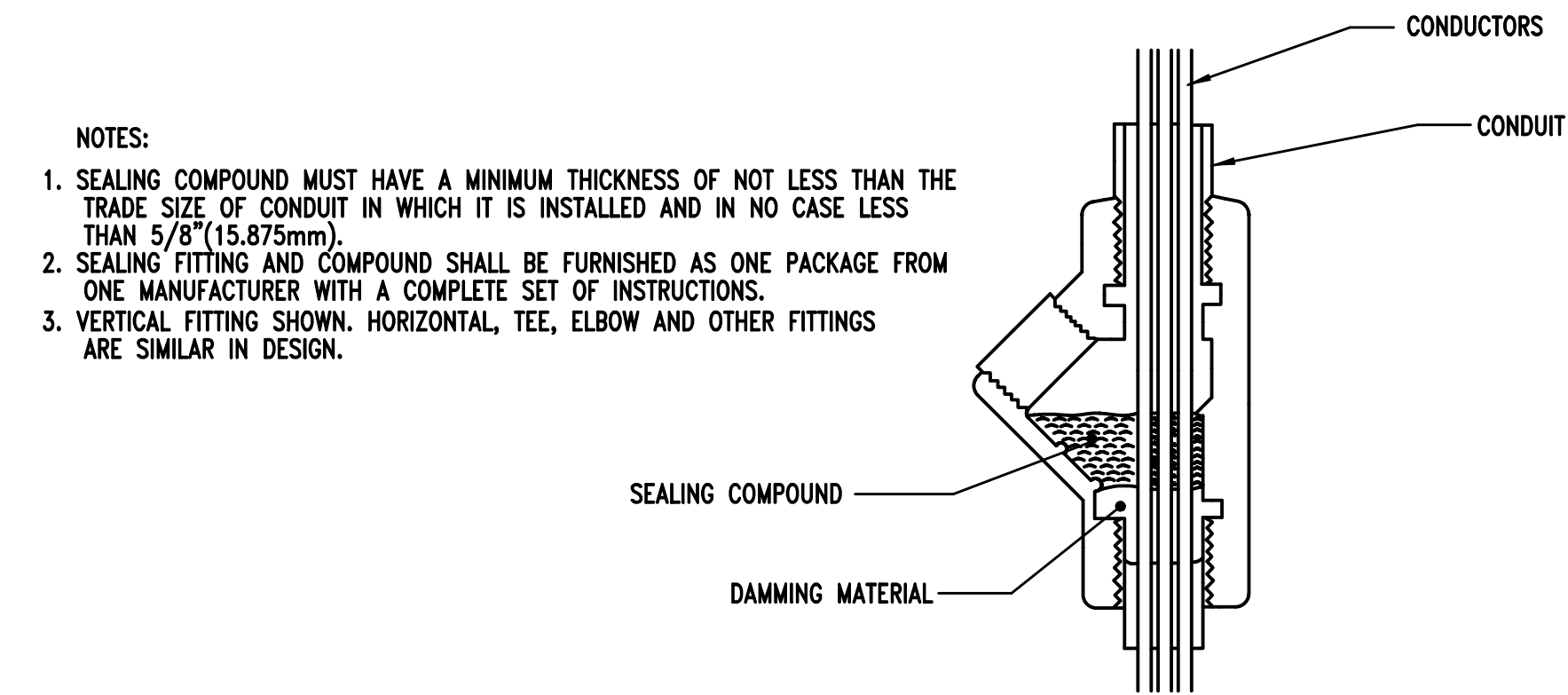
4 DETAIL - TYPICAL VIBRATION ISOLATOR NO SCALE

GENERATOR KEYED NOTES

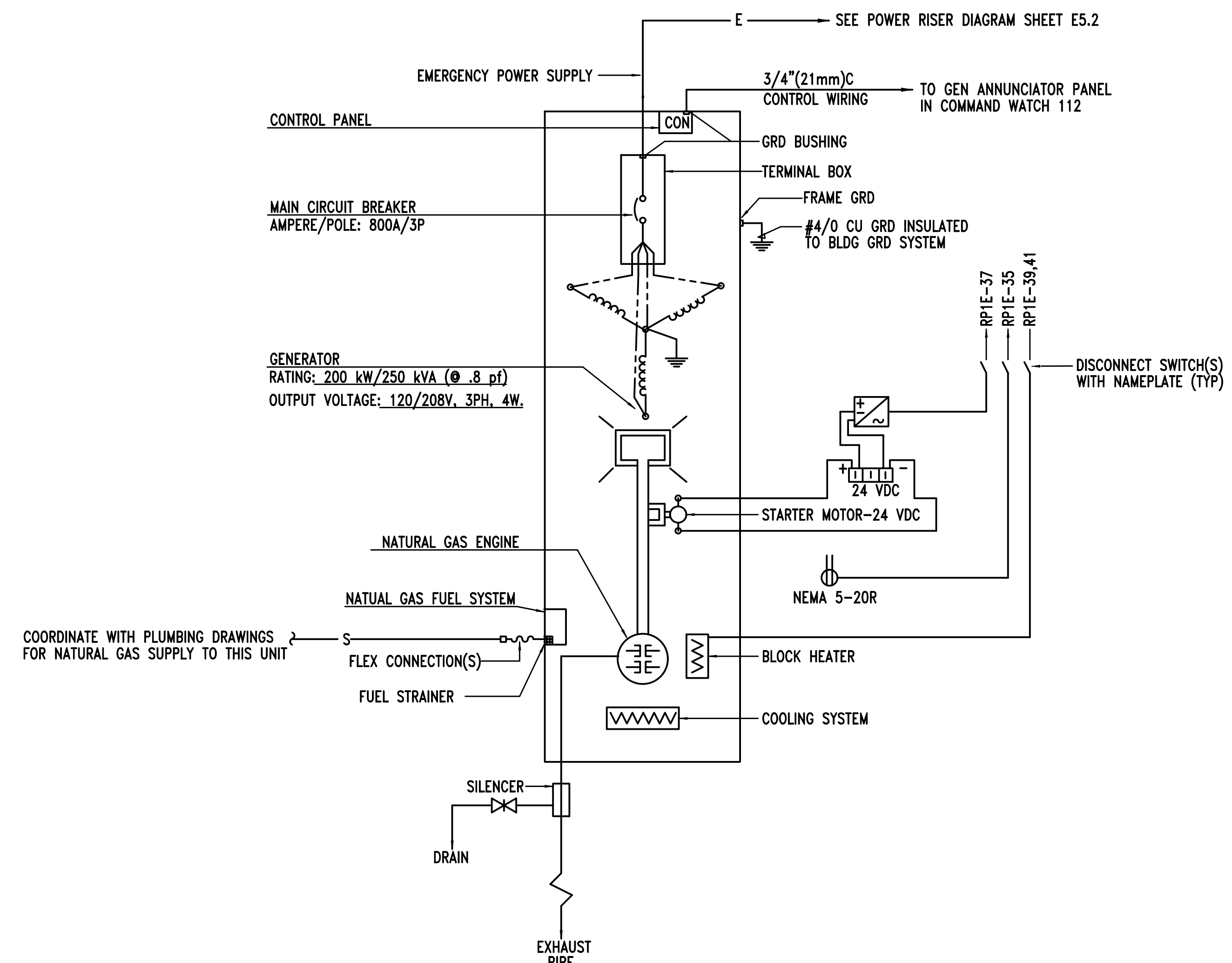
- | | |
|--|--------------------------------|
| △ 1 RAIN CAP | △ 8 GENERATOR |
| △ 2 CONDUIT STUB-UPS, SEAL-OFF FITTINGS AND CONVERSIONS TO WEATHERPROOF FLEXIBLE CONNECTIONS TO ELECTRICAL APPARATUS. SEE DETAIL 3 THIS SHEET. | △ 9 FLEXIBLE EXHAUST SYSTEM |
| △ 3 VARIOUS CONNECTIONS PER MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES, INCLUDING NORMAL AND EMERGENCY VENTS AND FUEL LEVEL GAUGE. | △ 10 EXHAUST CRITICAL SILENCER |
| △ 4 STEEL RAILS | △ 11 NATURAL GAS SYSTEM |
| △ 5 HOLES FOR MOUNTING GENERATOR SKIDS | △ 12 FAN AND RADIATOR ASSEMBLY |
| △ 6 ELECTRICAL STUB-UP AREA. INSTALL EP SEAL-OFF FITTING IN EACH CONDUIT ENTERING THIS SPACE. | |
| △ 7 ELECTRICAL EQUIPMENT (CIRCUIT BREAKER, CONTROL PANEL, ETC.) | |



1 GENERATOR DETAILS AND ELEVATIONS - TYPICAL GENERATOR SET NO SCALE



3 DETAIL - TYPICAL SEALING FITTING INSTALLATION NOT TO SCALE



2 DETAIL - GENERATOR SCHEMATIC NO SCALE

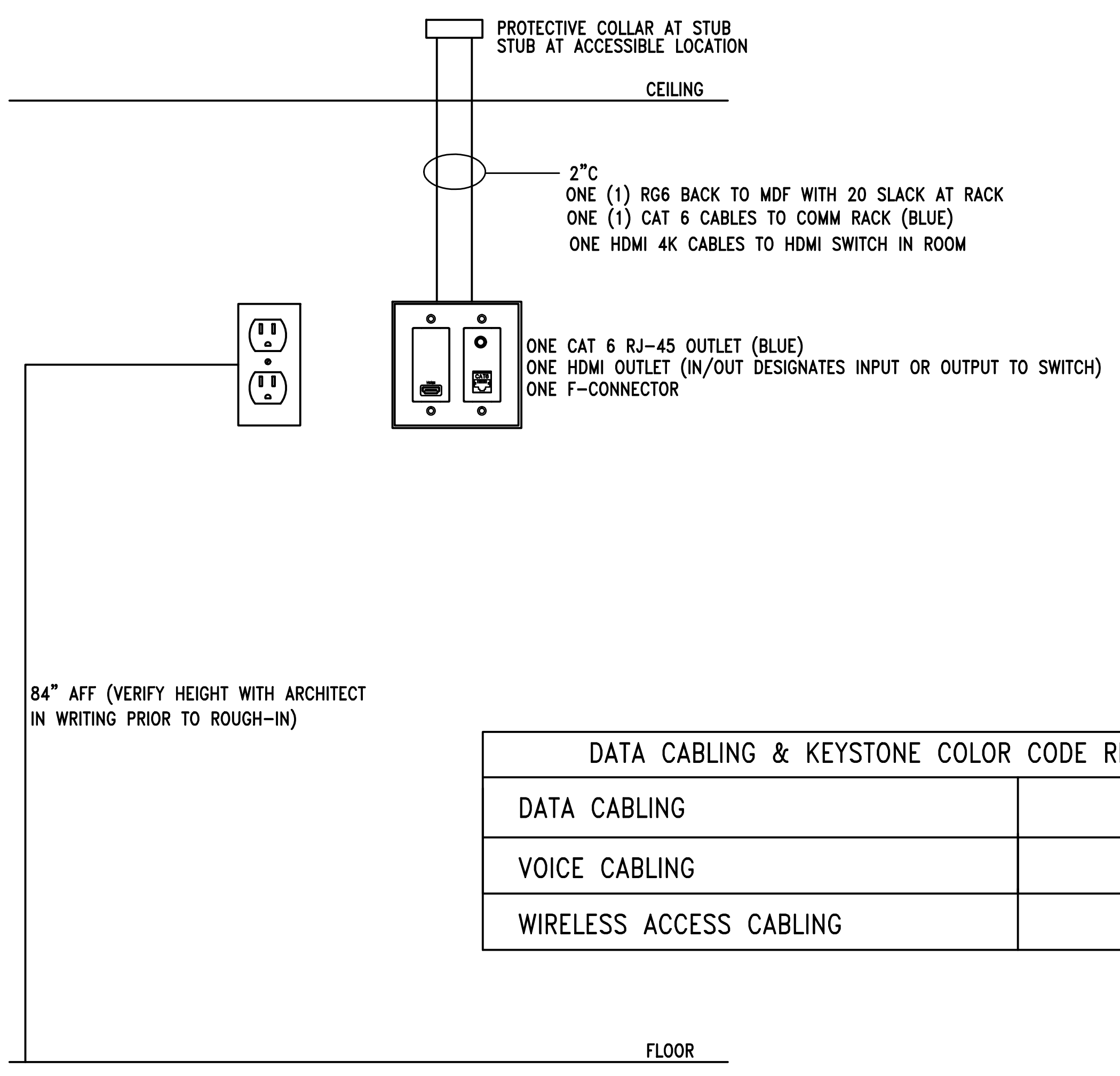
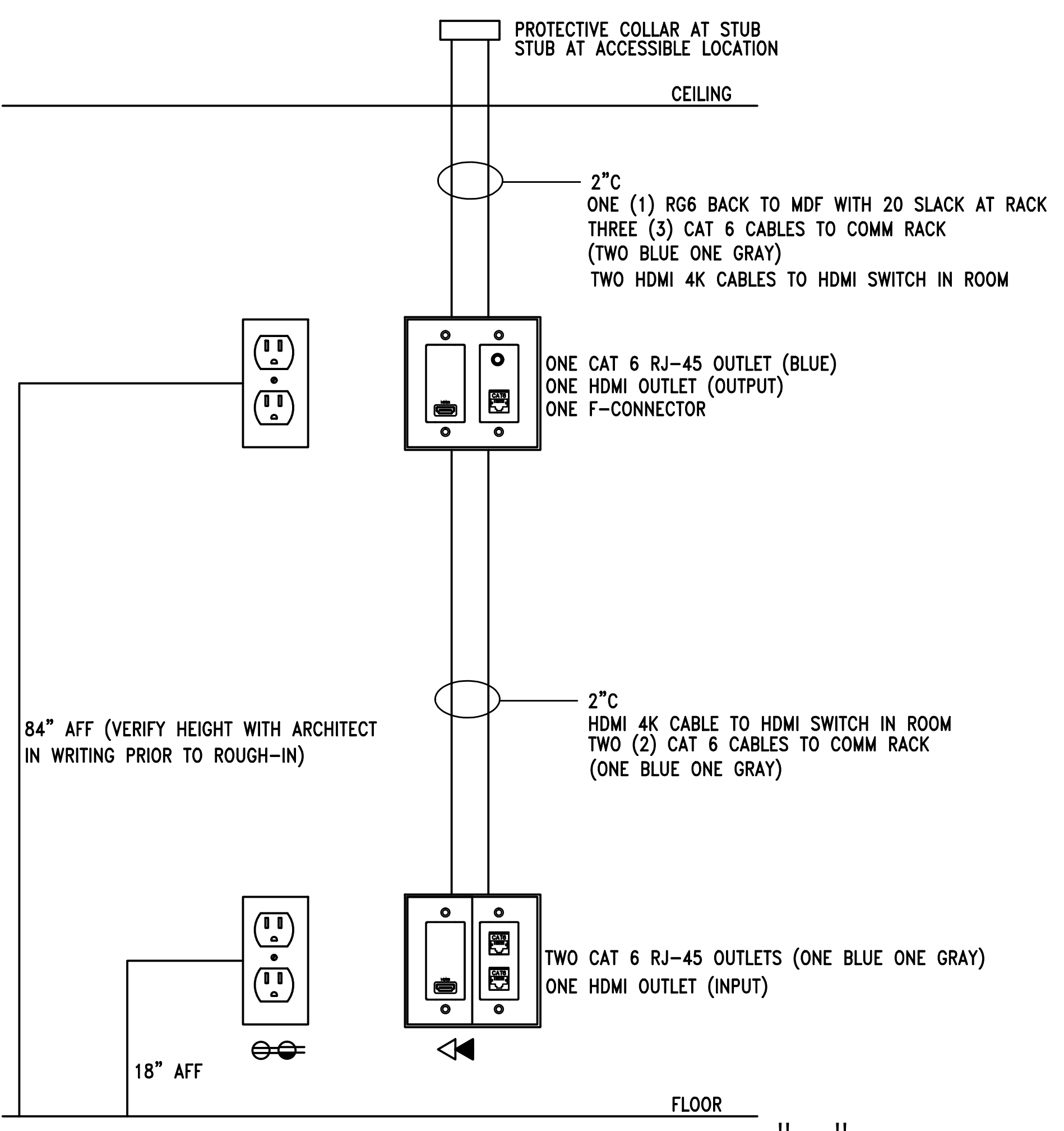
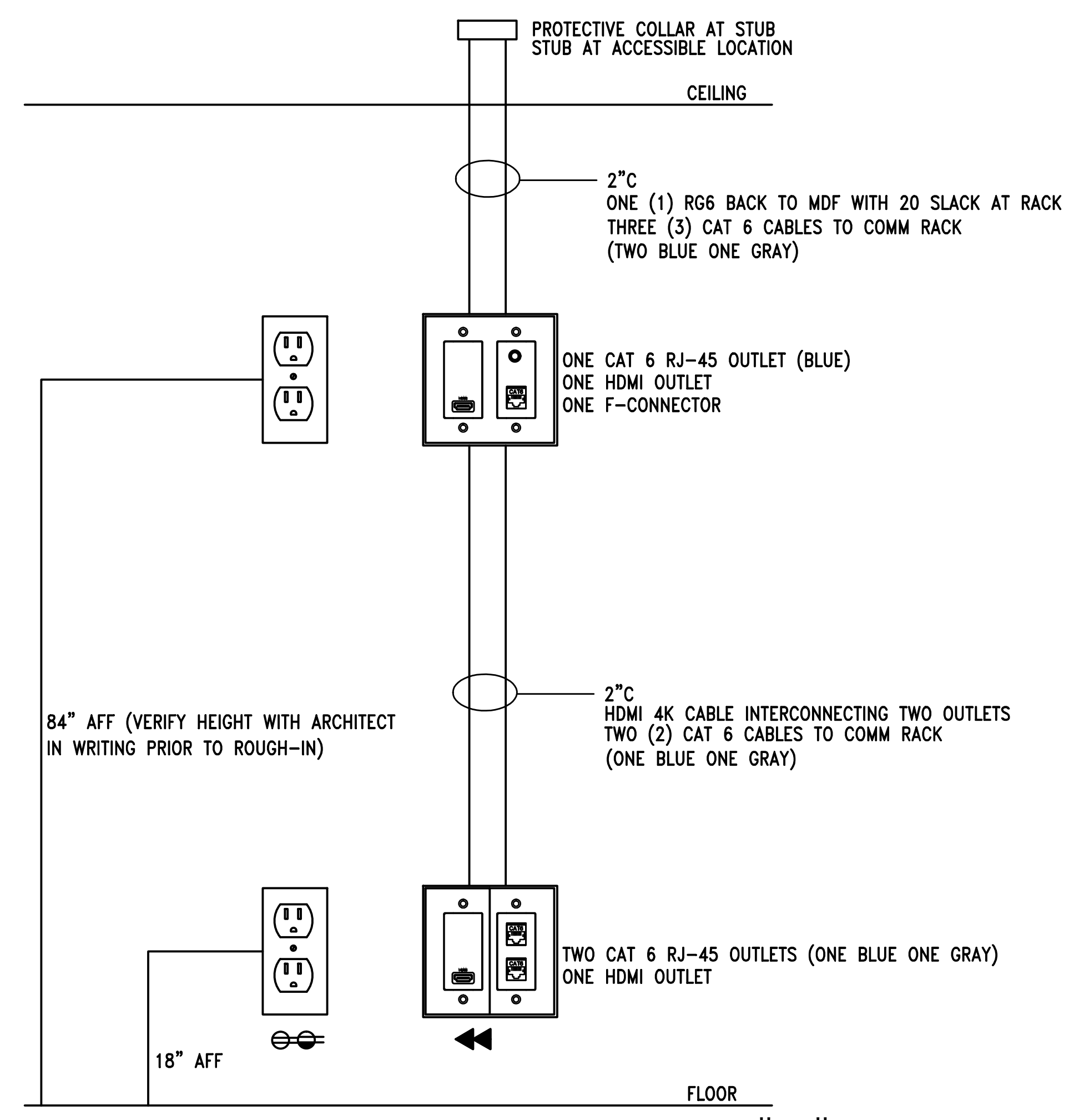
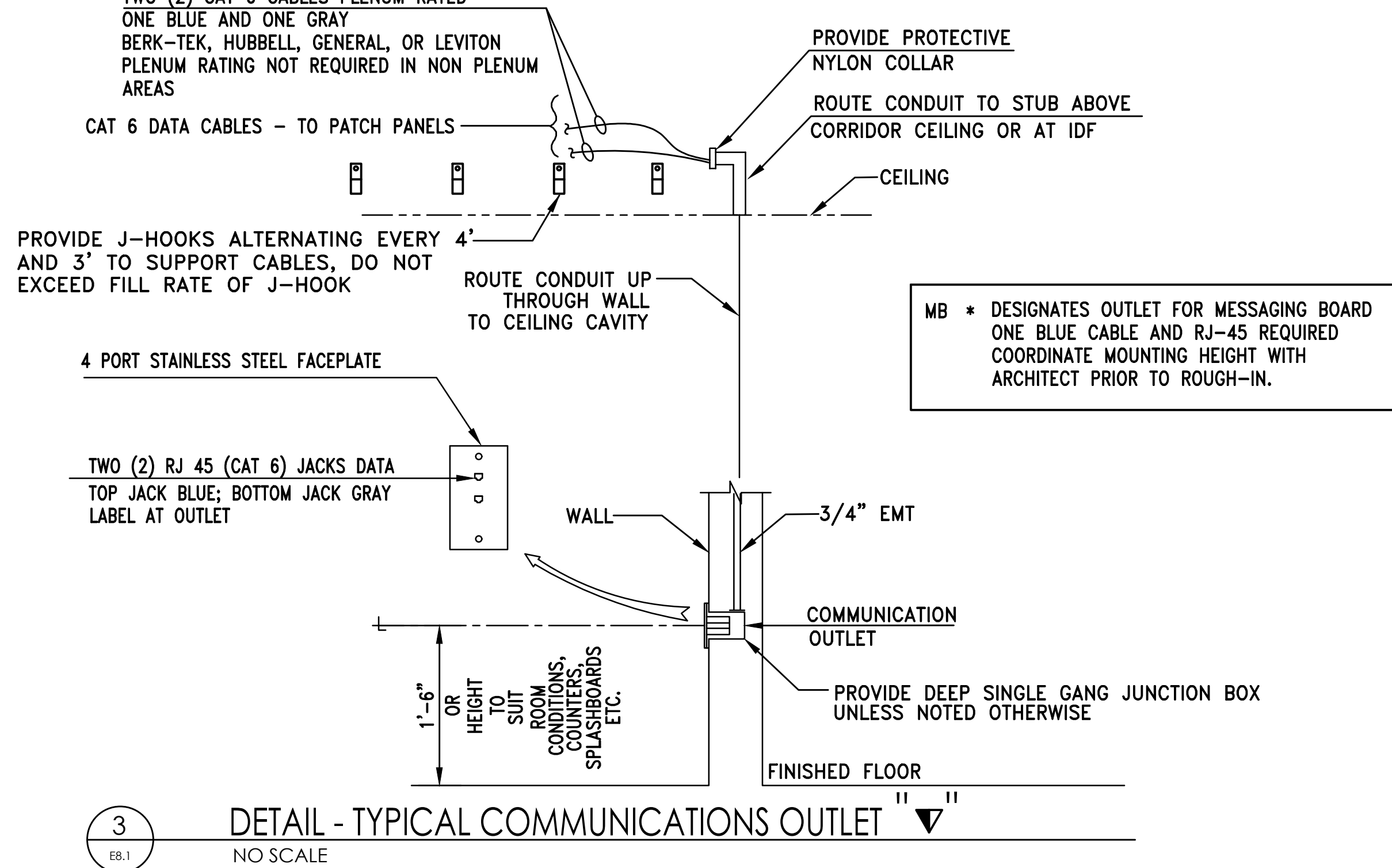
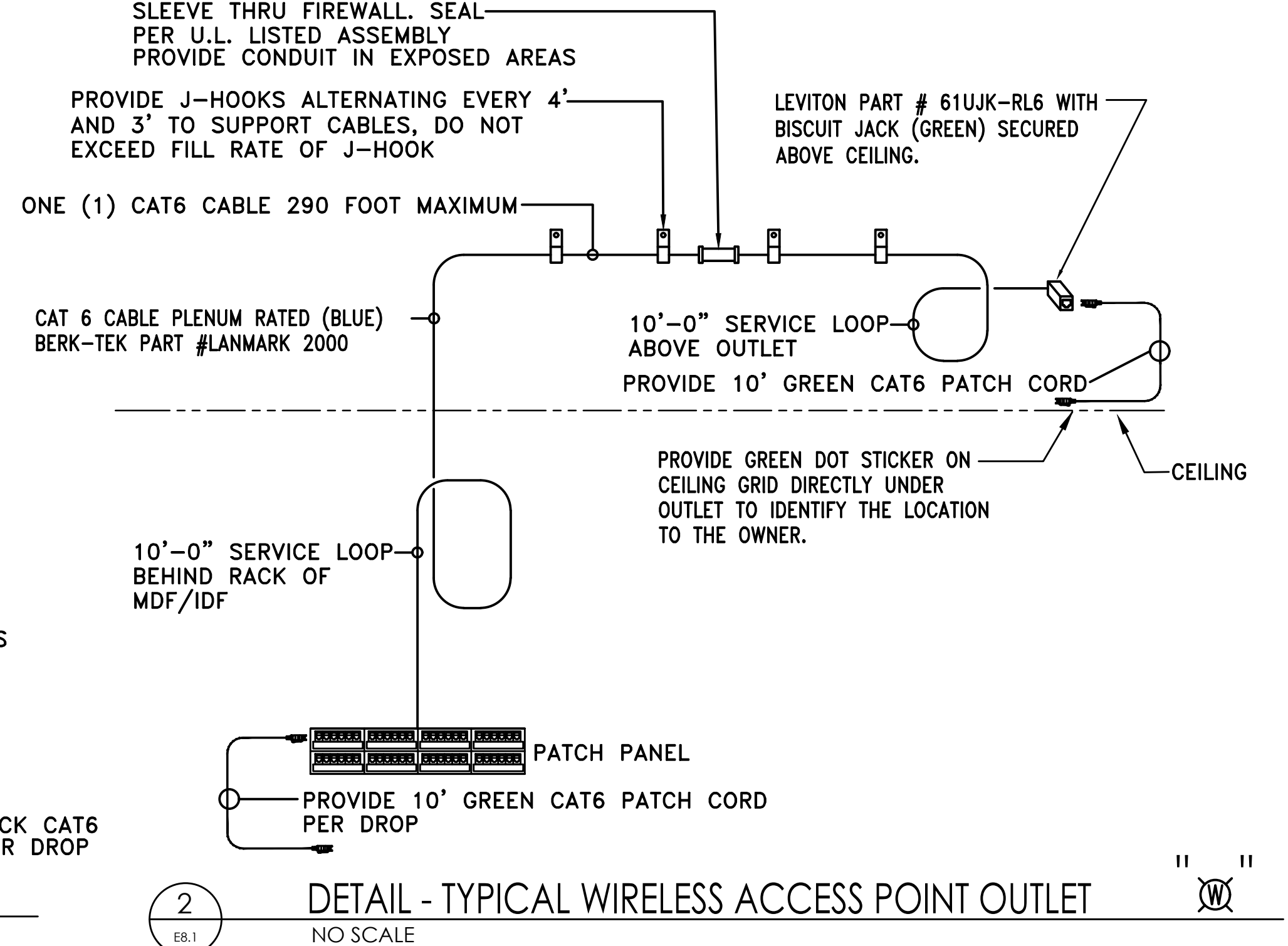
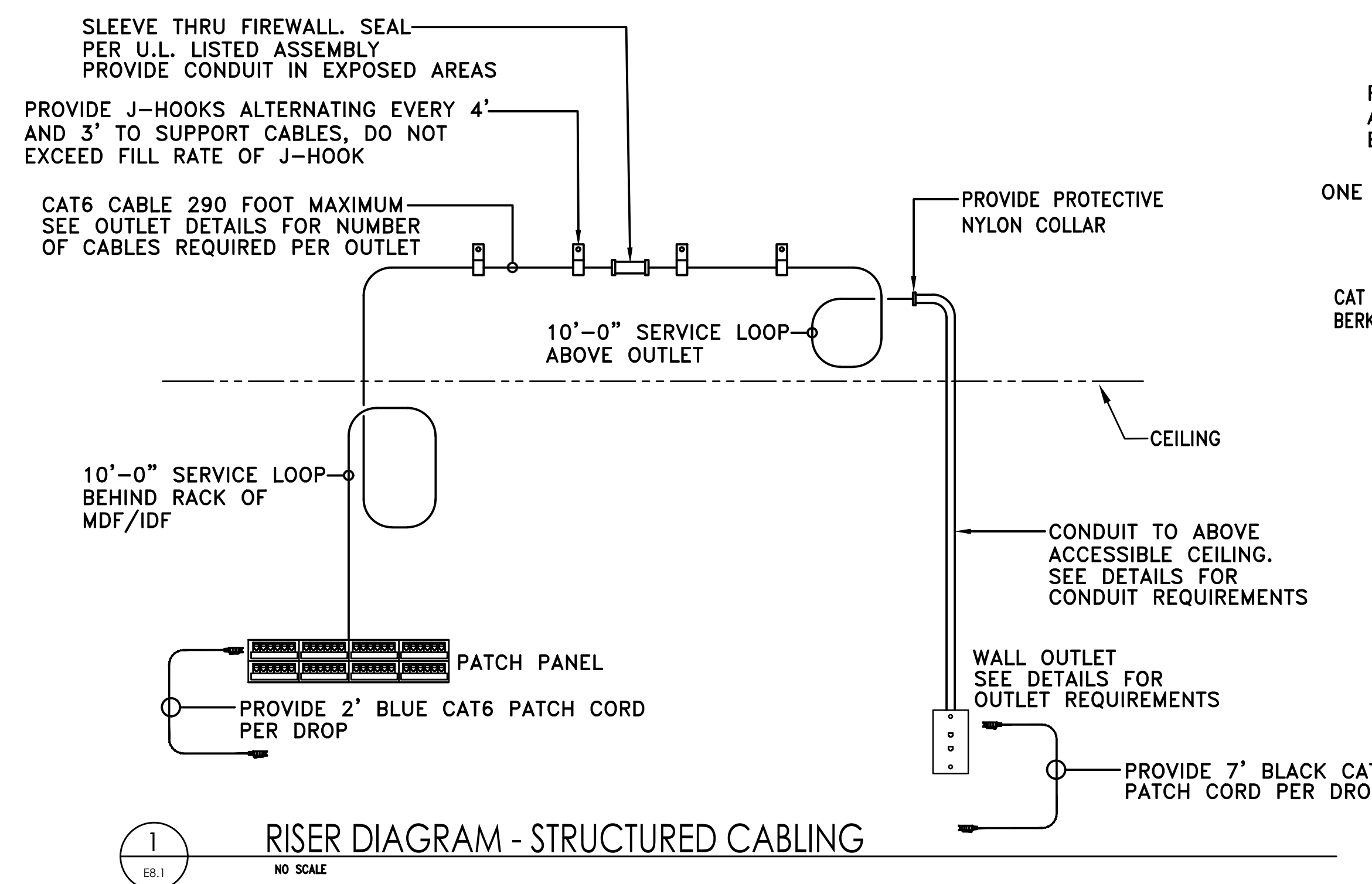
REVISIONS	No.	Description	Date
	0	ISSUED FOR REVIEW	01/16/23
	1	ISSUED FOR BID	02/03/23
	2	ADDENDUM #4	03/10/23
	3	CONFORMANCE	06/17/23

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Drawn By: 11-15-2022
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Drawing Title:

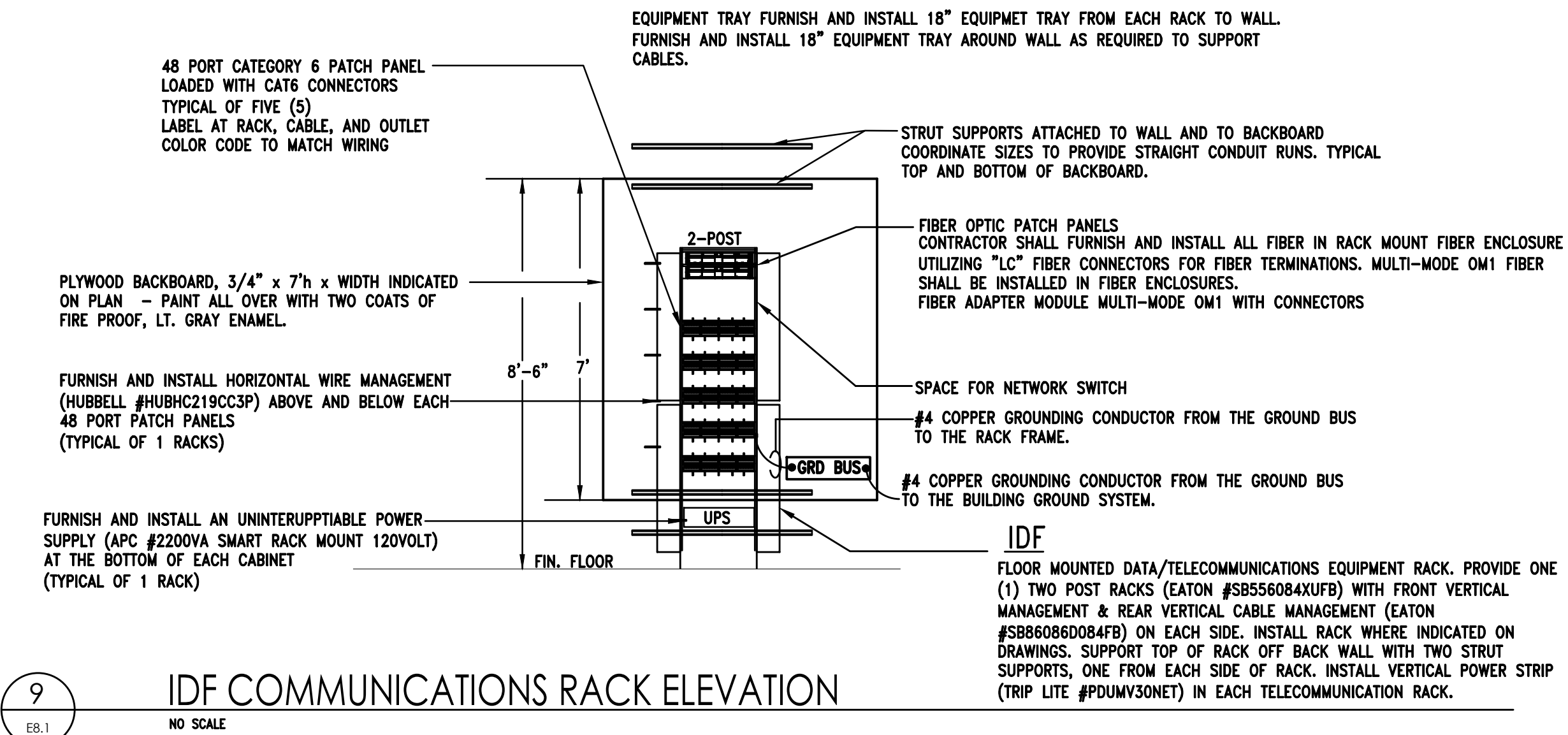
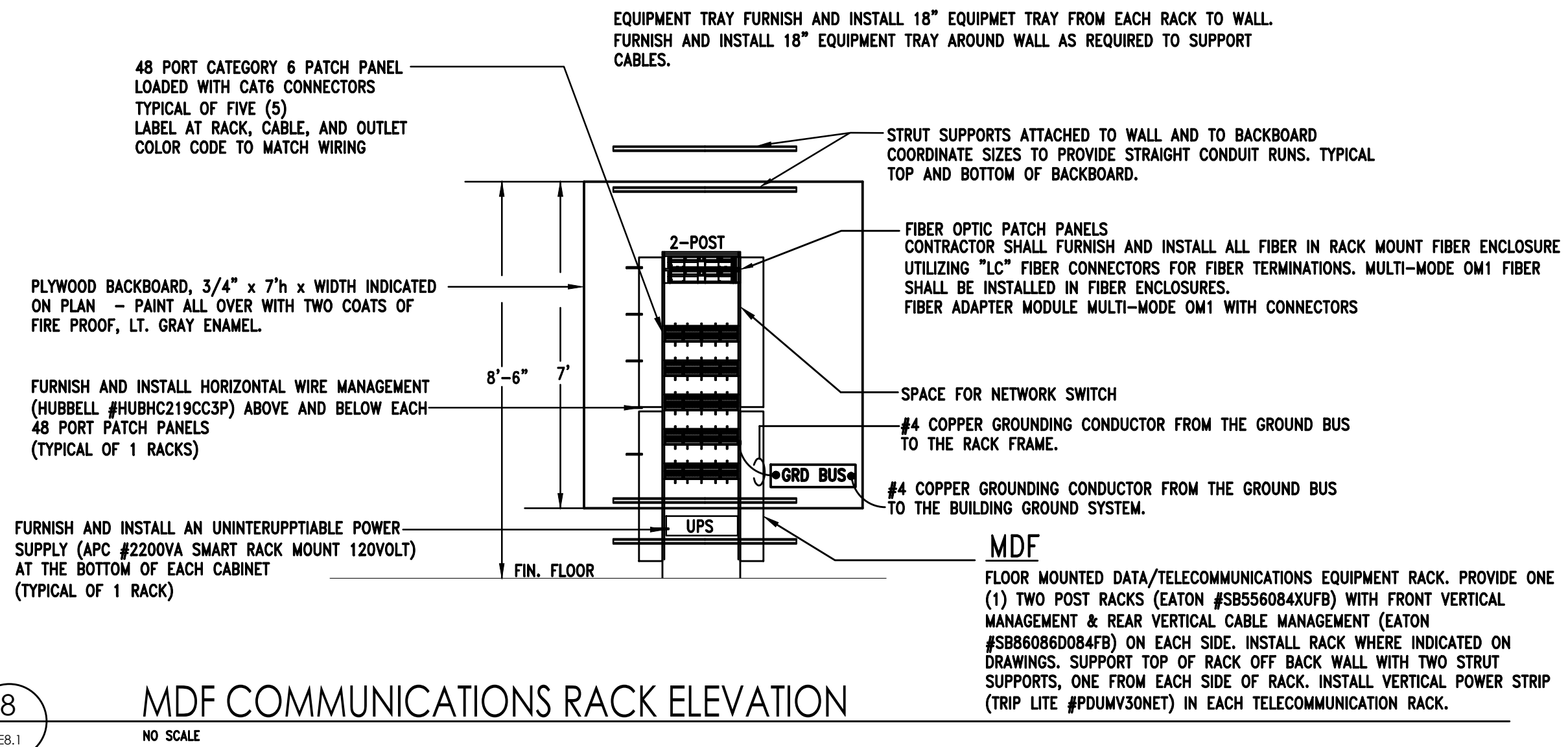
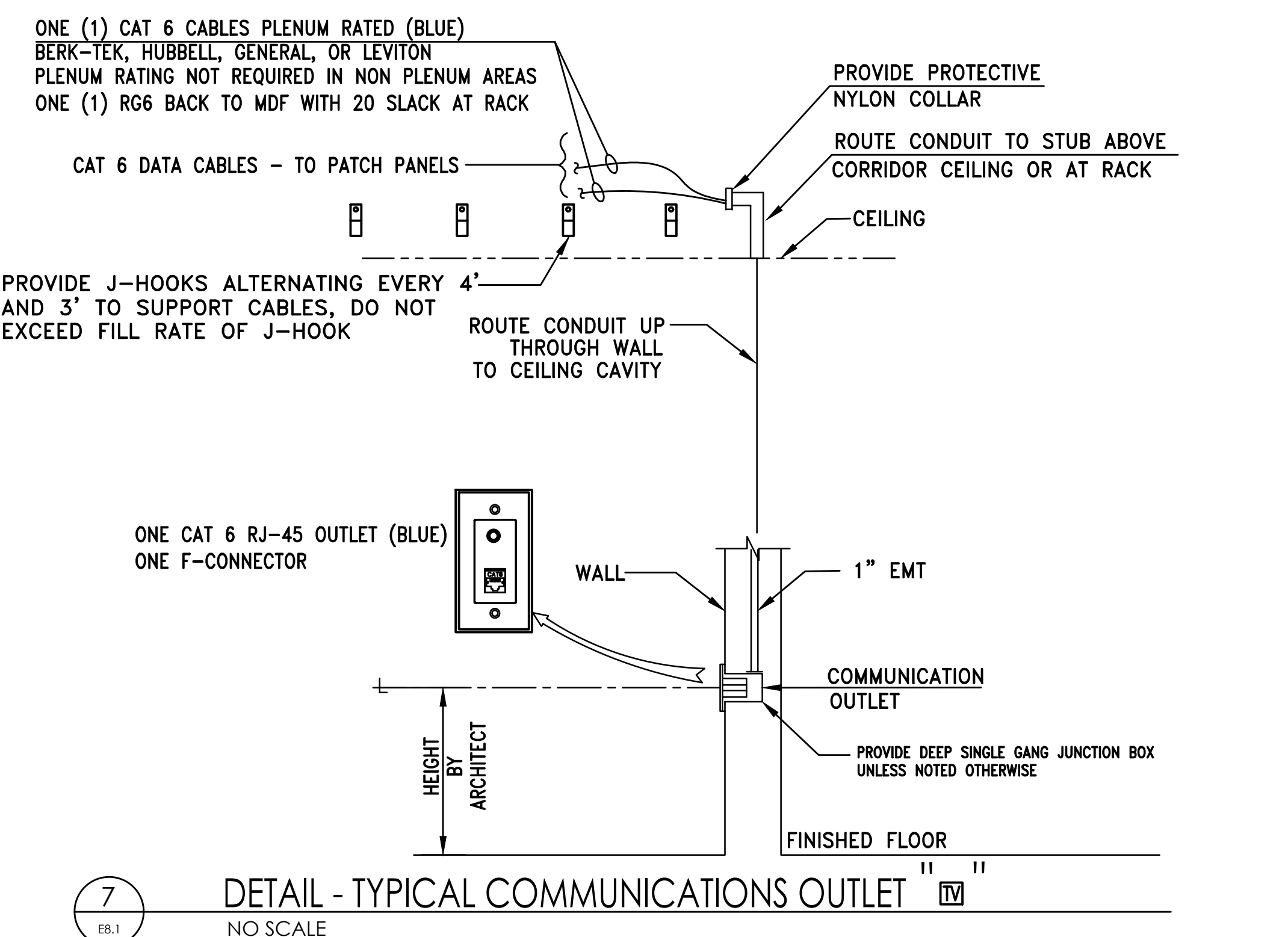
GENERATOR DETAILS

Sheet No:

E7.1



DATA CABLING & KEYSTONE COLOR CODE REQUIREMENT	
DATA CABLING	BLUE
VOICE CABLING	GRAY
WIRELESS ACCESS CABLING	GREEN



REVISIONS

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0	ISSUED FOR REVIEW	01/16/23
1	ISSUED FOR BID	02/03/23
2	CONFORMANCE	05/17/23

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Drawn By: [Blank]
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Scale: AS NOTED
Drawing Title:

ELECTRICAL
COMMUNICATION
DETAILS

Sheet No:

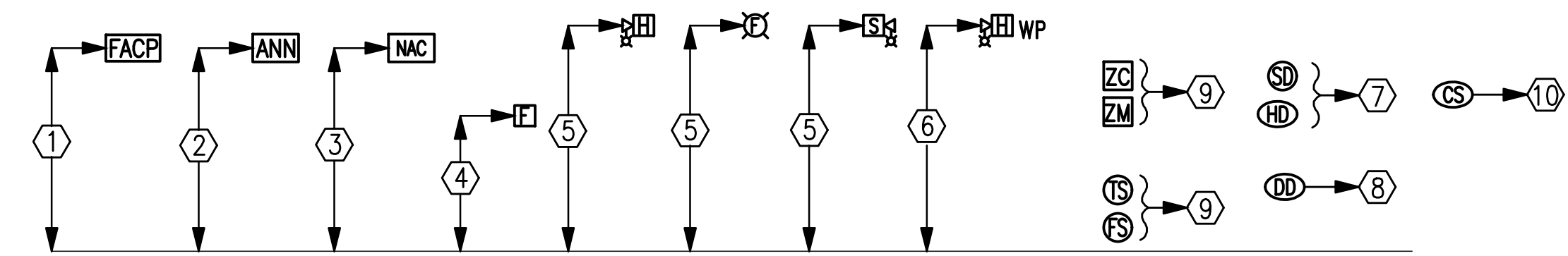
E8.1

FIRE ALARM SYSTEM NOTES:

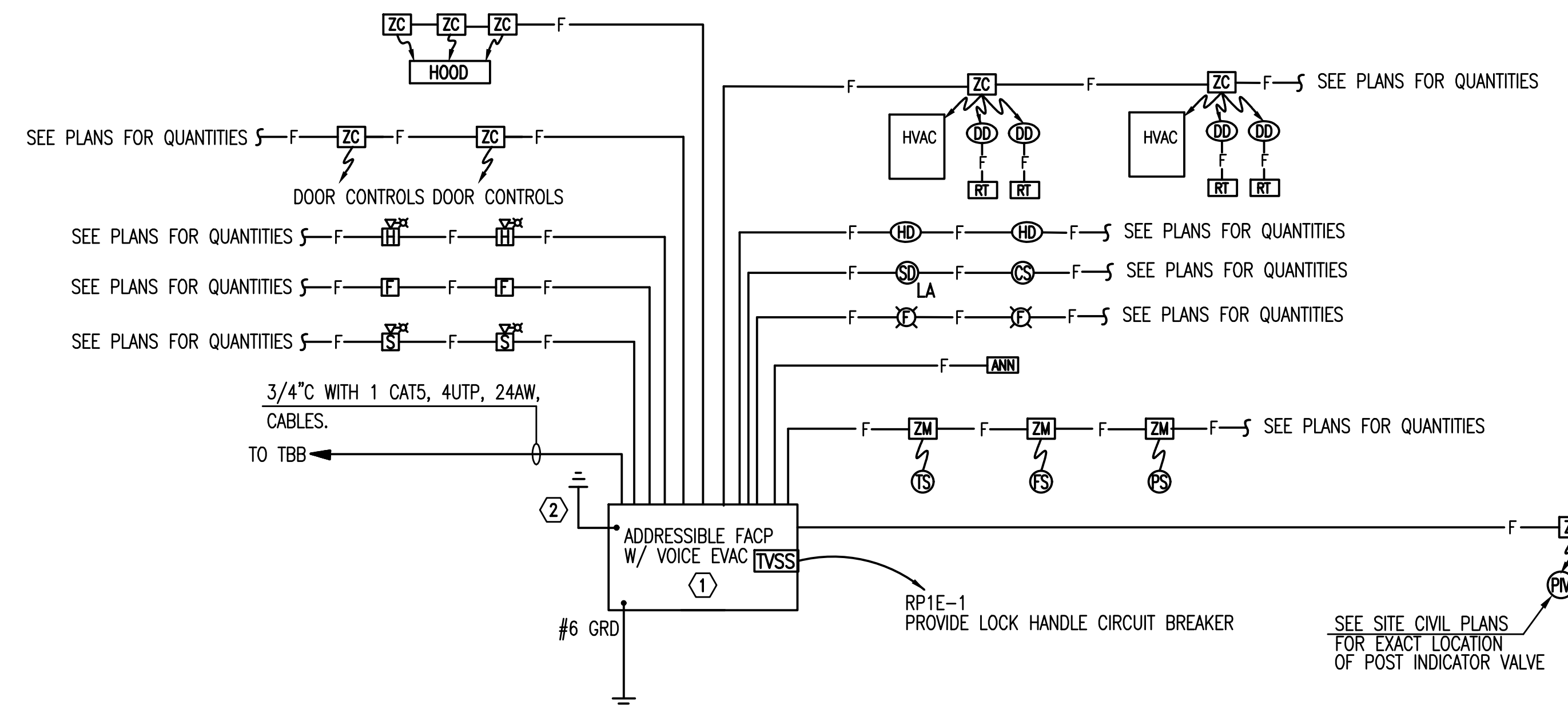
1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:
PRIMARY POWER - 120V AC
NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC
SIGNALING LINE CIRCUIT (SLC) - 24V DC
5. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
6. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
8. THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
9. PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
11. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
12. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
13. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
14. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
15. IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
16. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
17. PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
18. "CLG" DENOTES A CEILING MOUNTED DEVICE AND "WP" DENOTES WEATHERPROOF DEVICE..
19. SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS (2) THIS SHEET.
20. CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.

FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:

1. MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
2. MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
3. REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
4. MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
5. ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
6. WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
7. SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
8. DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
9. ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3- FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.
10. MOUNT WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER.



2 STANDARD MOUNTING HEIGHTS/INSTRUCTIONS
NO SCALE



1 FIRE ALARM RISER DIAGRAM
NO SCALE

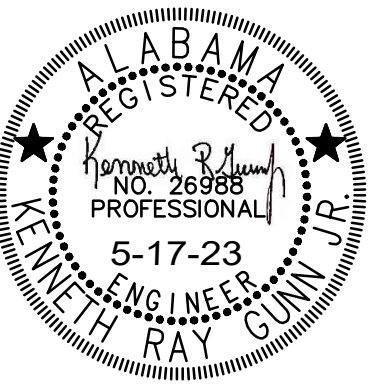
FIRE ALARM RISER DIAGRAM SHEET NOTES:

1. PROVIDE SURGE SUPPRESSION ON ON ALL INCOMING AND OUTGOING CABLES WHERE THEY ENTER OR EXIT THE FACILITY. SURGE SUPPRESSION WILL BE REQUIRED FOR EACH CABLE.
2. COORDINATE WITH CITY OF MONTGOMERY FIRE DEPARTMENT AND PROVIDE THE PROPER MONITORING DEVICE IN FACP REQUIRED BY THEM FOR MONITORING OF THE FIRE ALARM SYSTEM.

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NEW FIRE STATION NO. 10
FOR
THE CITY OF MONTGOMERY
SOUTH COURT STREET MONTGOMERY, ALABAMA 36104

REVISIONS		
No.	Description	Date
0	ISSUED FOR REVIEW	01/16/23
1	ISSUED FOR BID	02/03/23
2	CONFORMANCE	05/17/23

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BDW Project No. 2021-118
Drawn By:
Date: 11-15-2022
Scale: AS NOTED
Drawing Title:

FIRE ALARM RISER &
DETAILS

Sheet No:

E9.1

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CONFORMANCE
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