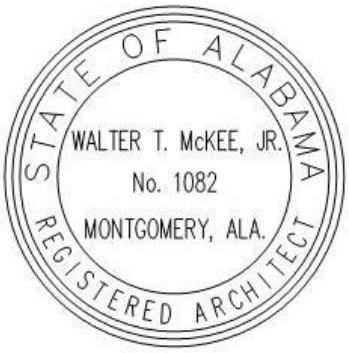
McKEE & ASSOCIATES
ARCHITECTS, INC.

Addendum No. 1
Date: October 2, 2024



Project:
A New Gymnasium
at
Appalachian School
for the
Blount County Board of Education
Oneonta, Alabama

MCKEE PROJECT NO. 24-169
ALABAMA DIVISION OF CONSTRUCTION MANAGEMENT NO. 20240518

The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on the Proposal Form.

A1.1 GENERAL MODIFICATIONS:

A1.2 SPECIFICATION MODIFICATIONS:

A. Refer to **Section 12600, Scoreboards** and **DELETE** in its entirety.

B. The following manufacturers are hereby approved subject to the plans and specifications:

1. Section **12661, Telescopic Seating** – RPA, Inc. | Ph: 205-324-5641| tshugart@rpainc.biz

2. Section **10500, Lockers** – Elite Storage products, LLC | Ph: (901) 367-3930

A1.3 DRAWING MODIFICATIONS:

A. See the attached Revised Drawings as follows:

1. Added Sheet(s) **C0.1, C0.2, C1.0, C2.0, C2.1, C3.0, C4.0, C4.1 and C5.0, Dated 09.18.24**, herein.
2. Sheet(s) **S0.1, S1.3, S1.4, S3.3, S3.4 and S3.5 (Revised 10.02.24)**, herein.
3. Sheet(s) **A0.1, A1.1, A1.4, A2.1 & A4.1 (Revised 09.27.24)**, herein.
4. Sheet(s) **E0.1, E1.1, E2.2, E3.1, E3.2, E4.1, E4.2, E5.2, E6.3 & E7.2 (Revised 09.27.24)**, herein.

A1.4 CLARIFICATIONS & RESPONSES:

A. See the following responses to RFI questions received from Contractors.

Question: N/A

Answer: N/A

GENERAL PROJECT NOTES:

1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES "POTHOLING" THEM BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ALABAMA ONE-CALL, LOCAL WATER AUTHORITIES, AND UTILITY PROVIDERS, ETC. FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
2. ANY EXISTING PROPERTY CORNERS (I.E.- IRON PIPES,CAPPED PIPES, CAPPED MONUMENTS, ETC). DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE A FINAL PUNCH LIST/CLOSEOUT ITEM. PROJECT PROPERTY CORNERS SHALL BE STAKED AND FLAGGED BY THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS. ANY ADDITIONAL STONE, GRADING, INSTALLATION, ETC. TO MAKE SIDEWALKS, DRIVES, AND ROADWAYS ACCESSIBLE DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
4. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEPT AND WASHED DOWN TO LIMIT THE TRACKING OF DIRT FROM THE PROJECT ONTO PUBLIC RIGHTS-OF-WAY DAILY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
5. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES. CROSSINGS OF REQUIRED AND EXISTING GRAVITY UTILITIES SHALL BE EXCAVATED AND ELEVATIONS VERIFIED AT THE BEGINNING OF THE PROJECT BEFORE ANY UTILITIES ARE INSTALLED TO MAKE SURE THERE ARE NO CONFLICTS. WHEN THESE CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE. ADJUSTMENTS AS SPECIFIED BY THE OWNER'S REPRESENTATIVE SHALL BE MADE IN THE PROPOSED AND/OR EXISTING FACILITIES. IF CONFLICTS OCCUR WHILE INSTALLING GRAVITY UTILITIES AND THE CONTRACTOR DID NOT IDENTIFY ELEVATIONS AT CROSSINGS IN ADVANCE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTIVE ACTION, INCLUDING BUT NOT LIMITED TO, REMOVING AND INSTALLING THE MAIN AND/OR STRUCTURES. WITH THE NUMEROUS EXISTING UTILITIES ON-SITE, IT IS IMPERATIVE THAT THESE BE VERIFIED BEFORE INSTALLATION OF PROPOSED WORK.
6. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES (I.E., CURB AND GUTTERS, SIDEWALK, DRIVES. STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK, ETC.), SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT RIGHT-OF-WAY TO ELIMINATE STAINING FROM EARTHEN MATERIAL, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
7. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
8. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT.
9. ALL TEMPORARY STONE FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO TEMPORARY STONE SHALL BE WASTED ON THE SITE SPECIFICALLY IN THE FINAL SUBGRADE LAYER AND TOPSOIL. EXCESSIVE STONE WILL INHIBIT THE GROWTH OF THE LANDSCAPE. ALL STONE SHALL BE REMOVED FROM AREAS TO RECEIVE TOPSOIL, NO EXCEPTIONS.
10. THE CONTRACTOR SHALL INSTALL TEMPORARY ASPHALT PATCHING WITHIN 24 HOURS AFTER THE COMPLETED INSTALLATION OF UTILITY CROSSINGS ON ROADWAYS OPEN TO TRAFFIC. IF THE ROADWAY IS CLOSED TO LOCAL TRAFFIC THEN ALL ASPHALT CUT LOCATIONS SHALL BE PATCHED BEFORE THE ROADWAY IS REOPENED. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL ALL UTILITIES AND THEN TEMPORARY ASPHALT PATCH ALL AT ONE TIME. TEMPORARY ASPHALT PATCHING MUST OCCUR PERIODICALLY PHASED AS REFERENCED ABOVE.
11. WHEN TEMPORARY ASPHALT PATCHING OCCURS THE MIX SHALL BE HOT MIXED AS SPECIFIED IN THE PLANS. ASPHALT COLD MIXES SHALL NOT BE ACCEPTED. POORLY PATCHED CROSSINGS DISPLAYING NONUNIFORM, UNSMOOTH FINISHES SHALL NOT BE ACCEPTED AND SHALL BE REMOVED AT ONCE. THE REPATCH OF THE AREA SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT. THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE AT ALL TIMES.
13. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE BLOUNT COUNTY SCHOOL SYSTEM, APPALACHIAN HIGH SCHOOL, PRIVATE UTILITY COMPANIES, AND ANY OTHER OWNER OR GOVERNING AGENCY WITH EXISTING INFRASTRUCTURE OR JURISDICTION IN THIS AREA.

DEMOLITION NOTES:

1. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED ON THE DEMOLITION PLAN. THE AREA IS GENERAL IN NATURE AND IS INTENDED TO GIVE THE CONTRACTOR AN APPROXIMATE AREA OF DEMOLITION. REGARDLESS OF THE AREA SHOWN, THE CONTRACTOR SHALL DEMOLISH, CLEAN AND GRUB ALL AREAS AND EXISTING INFRASTRUCTURE (ABOVE AND BELOW GROUND) NECESSARY TO COMPLETE ALL FINAL IMPROVEMENTS AS SHOWN ON THE CIVIL, ARCHITECTURAL, LANDSCAPE/IRRIGATION, ETC. CONSTRUCTION PLANS.
2. ALL AREAS DISTURBED BY THE CONTRACTOR; INCLUDING BUT NOT LIMITED TO ACTUAL IMPROVED AREAS, LAYDOWN AREAS, AREAS DISTURBED BY MOVING EQUIPMENT SHALL BE IMPROVED PER THE REQUIREMENTS OF THE PLANS, NO EXCEPTIONS.
3. ANY PERMANENT AND/OR CONSTRUCTION FENCING (EXISTING OR REQUIRED PER THE PLANS) REQUIRED TO BE REMOVED/RESET FOR INSTALLATION OF SITE, UTILITY, BUILDING, ETC. IMPROVEMENTS SHALL BE DONE SO AT NO ADDITIONAL COST TO THE PROJECT AND IS CONSIDERED INCIDENTAL. THE PLANS HAVE BEEN NOTED WITH GENERAL AREAS THIS IS TO OCCUR IN. THE REMOVAL AND/OR REPLACEMENT LIMITS WILL BE DETERMINED IN THE FIELD.

GRADING NOTES:

1. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, BE GRASSED AND MULCHED, AND/OR SODDED AS SOON AS FINAL GRADING IS COMPLETE. REFER TO EROSION CONTROL NOTES FOR TEMPORARY GRASSING AND MULCHING DURING GRADING OPERATIONS.
2. ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE WELL IN ADVANCE OF FILL OPERATIONS. THE CONTRACTOR SHALL IDENTIFY ALL BORROW SOURCES FOR PD SAMPLES TO BE TAKEN AND EVALUATED. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS AS PER THE OWNER'S REPRESENTATIVES REQUIREMENTS. SEE THE GEOTECHNICAL REPORT FOR THIS INFORMATION.
3. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN. THE MAJORITY OF THE PROJECT WILL REQUIRE CLEARING AND REMOVAL OF EXISTING SIDEWALK, DRIVES, CURB AND GUTTER, CURBING, TREE STUMP REMOVAL, TOPSOIL, GRADING, ETC. AS SHOWN THROUGHOUT THE PROJECT CONSTRUCTION PLANS AND CONTRACT DOCUMENTS.
4. ALL EXISTING WATER VALVES, UTILITY VAULT TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS, ETC. NOTED ON THE DEMOLITION PLAN SHALL BE REMOVED, STOCKPILED IN A SECURE LOCATION, AND/OR RESET AS PER THE CONTRACT DOCUMENTS.
5. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN, SANITARY, WATER DISTRIBUTION AND FIRE PROTECTION, ELECTRICAL, VIDEO, IRRIGATION, ETC. IMPROVEMENTS HAVE BEEN INSTALLED.
6. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING AND HANDICAP RAMPS. ALL ADA ACCESSIBLE RAMP GRADES AND SIDEWALK CROSS SLOPE SHALL MEET ADA REQUIREMENTS.
7. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT SITE, UNCLASSIFIED EXCAVATION, AND BORROW EXCAVATION, ROCK REMOVAL, ETC. TO BRING THE SITE TO FINISHED SUBGRADE (ONLY LEAVING PAVEMENTS AND TOPSOIL TO REACH FINAL FINISHED GRADE) AS SHOWN ON THE CONSTRUCTION PLANS. NO EXTRA PAYMENT WILL BE MADE FOR EXCESS MATERIAL BROUGHT ON-SITE, MATERIAL REQUIRED TO BE MOVED MULTIPLE TIMES BECAUSE OF CONSTRUCTION PHASING, OR EXCESS MATERIAL TO BE REMOVED FROM THE SITE UPON GRADING COMPLETION.
8. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN ½" IN DIAMETER. THERE ALSO SHALL BE NO WASTED TEMPORARY GRAVEL, CONCRETE, OR ANY OTHER BUILDING MATERIALS FOUND IN THE TOPSOIL. ANY FOUND DEBRIS SHALL BE REMOVED IMMEDIATELY.
9. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE PLACED IN MAXIMUM LOOSE 8" LIFTS TO 98% OF THE STANDARD PROCTOR MAXIMUM (ASTM D 698) DRY DENSITY, AS DIRECTED BY THE GEOTECHNICAL REPRESENTATIVE. THE GEOTECHNICAL REPORT COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENT FOR THE PROJECT.

EXISTING UTILITY NOTES

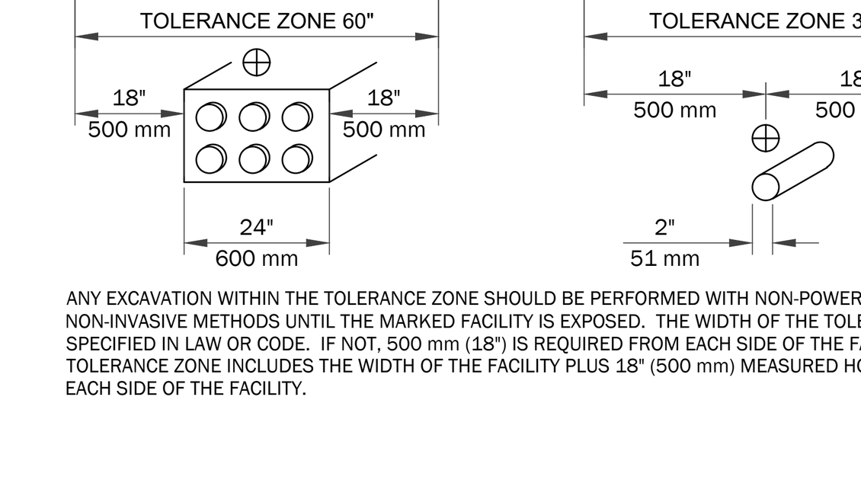
APWA UNIFORM COLOR CODE
FOR MARKING UNDERGROUND UTILITY LINES

WHITE - Proposed excavation
PINK - Temporary survey markings
RED - Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
BLUE - Potable Water
PURPLE - Reclaimed Water, Irrigation and Slurry Lines
GREEN - Sewers and Drain Lines

TO HAVE UNDERGROUND UTILITY LINES LOCATED DIAL:
- 811 (INSIDE ALABAMA)
- (800) 292-8525 (INSIDE AND OUTSIDE OF ALABAMA)

WWW.AL811.COM

ALABAMA 811 Know what's below. Call before you dig.



ANY EXCAVATION WITHIN THE TOLERANCE ZONE SHOULD BE PERFORMED WITH NON-POWERED HAND TOOLS OR NON-INVASIVE METHODS UNTIL THE MARKED FACILITY IS EXPOSED. THE WIDTH OF THE TOLERANCE ZONE MAY BE SPECIFIED IN LAW OR CODE. IF NOT, 500 mm (18") IS REQUIRED FROM EACH SIDE OF THE FACILITY. THE TOLERANCE ZONE INCLUDES THE WIDTH OF THE FACILITY PLUS 18" (500 mm) MEASURED HORIZONTALLY FROM EACH SIDE OF THE FACILITY.

STORM DRAIN NOTES:

1. STORM DRAIN STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING AND/OR INLET THROAT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
2. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE STORM STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
3. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB, ROADWAY AND/OR VEGETATED FINISHED GRADE ELEVATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLANS. ANY ADJUSTMENTS TO LEVEL RING AND COVER TOP ELEVATIONS WITH FINAL ASPHALT, SODDING, ETC. SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE STORM DRAIN STRUCTURE INSTALLATION.
4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORMWATER FLOW IN EXISTING AND PROPOSED STORM SEWERS WITHIN THE PROJECT LIMITS AND IF AFFECTED BY CONSTRUCTION ACTIVITIES, OUTSIDE THE PROJECT LIMITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY AND ALL MATERIAL AND LABOR REQUIRED FOR TEMPORARY STORM SEWERS AND/OR PUMPS THAT MAY BE REQUIRED FOR BYPASSING. THE OWNER OR ITS REPRESENTATIVES SHALL NOT ACCEPT ANY RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY, OR ACCEPT ANY RESPONSIBILITY FROM CLAIMS OR DAMAGES RESULTING FROM THE FAILURE OF THE CONTRACTOR'S TEMPORARY STORM SEWER BYPASS FACILITIES.
5. ALL STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE REBAR REINFORCEMENT IN THE WALLS, BOTTOM, AND TOP. ALTHOUGH THE TOPS VARY FOR AN S-INLET, GRATE INLET, AND JUNCTION BOX, THE BOX ITSELF IS THE SAME AND REBAR REINFORCEMENT SHALL BE PLACED PER THE STANDARD DETAIL AND NOTES.
6. CONICAL MANHOLE SECTIONS AND MANHOLE RIMS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
7. WHEN TYING TO EXISTING UTILITY PIPING WITH STORM DRAIN, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
8. CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH STORM STRUCTURE CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT.
9. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES REQUIRED ON THE CONSTRUCTION PLANS.
10. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT. THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE.
11. THE CONTRACTOR SHALL BACKFILL THE SPACE (WHEN BETWEEN 6 INCHES AND 2 FEET) BETWEEN STORM DRAIN AND SANITARY SEWER MAINS WHEN CROSSING WITH NO. 57 STONE MECHANICALLY CONSOLIDATED IN-PLACE TO PREVENT ANY SETTLEMENT AT THE CROSSING. THIS STONE SHALL EXTEND THE WIDTH OF THE UTILITY TRENCH TO APPROXIMATELY FOUR (4) FEET TO EITHER SIDE OF THE CROSSING.
12. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS BEFORE BACKFILL. THIS SHALL BE REQUIRED REGARDLESS IF PREFABRICATED LIFTING PLUGS ARE USED OR NOT. THE COMBINATION OF THE TWO (2) IS RECOMMENDED TO ENSURE THAT THE LIFTING HOLES DO NOT REMAIN OPEN ALLOWING EARTHEN MATERIAL TO ENTER THE DRAIN POSSIBLY CAUSING A SINK HOLE AT THE SURFACE.

SANITARY SEWER NOTES:

1. THE CONTRACTOR SHALL REFERENCE THE PLUMBING PLANS FOR ANY SEWER PLUMBING BENEATH THE PROPOSED BUILDING FOOTPRINT.
2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING.
3. SANITARY STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. SANITARY STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE SANITARY STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
5. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES. TOPS INSTALLED TOO HIGH SHALL BE RESET AT NO ADDITIONAL COST TO THE PROJECT.
6. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTING, ETC.
7. CONICAL MANHOLE SECTIONS AND MANHOLE RINGS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
8. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
9. THE CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH SANITARY SEWER CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT
10. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT, OR ON WEEKENDS, ETC.
11. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED PER THE LOCAL SEWER AUTHORITY'S REQUIREMENTS. TESTING IS CONSIDERED INCIDENTAL TO THE PROJECT.

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL BE PREPARED TO CAMERA ANY DISCOVERED UTILITY MAIN FOUND DURING CONSTRUCTION NOT SHOWN ON THE PLANS TO VERIFY IF THE MAIN SHOULD BE TIED TO THE PROPOSED SYSTEMS OR BE ABANDONED AND/OR REMOVED.
2. ALL STORM DRAIN AND SANITARY SEWER SYSTEM STRUCTURES AND PIPING SHALL REMAIN ACTIVE UNTIL PROPOSED PROJECT UTILITIES ARE INSTALLED AND CAN COME INTO SERVICE. THIS APPLIES TO AREA INLETS IN YARDS AND/OR ROOF DRAINS. ANY WATER OR SEWER DAMAGE TO PRIVATE PROPERTY DUE TO FAILURE OF THE CONTRACTOR TO COORDINATE REMOVAL OF EXISTING UTILITIES AND TIE-INS TO REQUIRED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ALL CLEANUP AND ADDITIONAL WORK REQUIRED TO CORRECT THE DAMAGE.
3. THE CONTRACTOR SHALL REMOVE/RESET/RAISE ALL PRIVATE UTILITY COMPANY BOXES, MANHOLE RING AND COVER, ETC. IF THESE ITEMS ARE BEING RETAINED. ANY ITEMS DAMAGED DURING THIS WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PAVING, SIGNING AND STRIPING NOTES:

1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.
2. ALL COMBINATION CURB AND GUTTER SHALL BE ONE AND A HALF (1.5) FEET IN WIDTH UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. EXISTING CURB AND GUTTER MAY VARY IN WIDTH AND PROPOSED CURB AND GUTTER SHALL BE TAPERED TO JOIN TO IT OVER A MINIMUM DISTANCE OF FIVE (5) FEET TO ENSURE A SMOOTH TRANSITION.
3. ALL TEMPORARY AND/OR PERMANENT STRIPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
4. ALL PERMANENT SIGNS AND POSTS SHALL BE PER THE MUTCD.
5. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY CONSTRUCTION SIGN POSTS SHALL BE #3 "U" CHANNEL POSTS, ALDOT 710B.
6. ALL TRAFFIC STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT.
9. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY FOR CONTROL CRACKING OF THE CONCRETE PAVEMENT. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
10. ALL TEMPORARY STRIPING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. TEMPORARY STRIPING SHALL BE REQUIRED TO CLEARLY DELINEATE WHERE TRAFFIC BOTH PEDESTRIAN AND MOTOR VEHICLE KNOW HOW TO NAVIGATE THE WORK AREA. DURING PAVEMENT CURING TEMPORARY STRIPING SHALL BE APPLIED FOR TRAFFIC CONTROL.
11. THE FINAL PAVEMENT FINISH IS VERY IMPORTANT FOR THE PROJECT AND THE OWNER. THE CONTRACTOR SHALL MAKE ALL PAVEMENT ARE FINISHED OUT SMOOTHLY AND CLEANLY. IRREGULARITIES, "BIRD BATHS", RANDOM CRACKING, ETC. SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.

EROSION CONTROL NOTES:

1. REGARDLESS IF AN NPDES PERMIT IS REQUIRED OR NOT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. AN EROSION CONTROL PLAN IS PROVIDED AS A MINIMUM GUIDE FOR PROVIDING STRUCTURAL BMP'S. PHASING, TEMPORARY GRASSING, AND OTHER METHODS AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT, SHALL BE UTILIZED TO MINIMIZE EROSION. NO EXTRA COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR MAINTAINING EROSION CONTROL ITEMS OR ADDITIONAL EROSION CONTROL ITEMS REQUIRED TO COMPLY WITH THE NPDES PERMIT.
2. THE DESIGN OF THE CBMPP, IF REQUIRED, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S QCP. IN THE EVENT THAT SEDIMENT BASINS ARE REQUIRED BY THE DESIGN, NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR STOCKPILING MATERIAL TO LATER FILL THE BASINS, ADDITIONAL GRADING TO FILL THE BASINS, TEMPORARY PIPING, RESEEDING AND REMULCHING, RESTORING PERMANENT DRAINAGE STRUCTURES AND GRADES TO THEIR PERMANENT REQUIREMENTS, OR ANY OTHER ITEMS OF WORK THAT ARE REQUIRED BY THE PHASING OF CONSTRUCTION OR THE CBMPP.
3. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR. ANY ADDITIONAL WORK AND MATERIALS REQUIRED TO COMPLY WITH ANY VIOLATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. ALL TEMPORARY RIPRAP USED FOR EROSION CONTROL PURPOSES SHALL BE INCLUDED IN THE PRICE OF EROSION CONTROL. TEMPORARY RIPRAP BERMS SHALL BE SPREAD OUT IN AREAS WHERE PERMANENT RIPRAP IS REQUIRED AND SHALL BE SPREAD IN A MANNER TO NOT IMPEDE FLOW OF STORM DRAINS AFTER THE SITE IMPROVEMENTS ARE COMPLETE AND THE PROJECT IS STABILIZED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR TEMPORARY RIPRAP OR SPREADING IT UPON COMPLETION OF THE SITE IMPROVEMENTS. ALL TEMPORARY RIPRAP THAT IS SPREAD FOR USE AS PERMANENT RIPRAP SHALL BE PLACED ON THE STONE BEDDING AND FILTER FABRIC AS SHOWN IN THE DETAILS. COSTS FOR STONE AND FILTER FABRIC PLACED UNDERNEATH ALL TEMPORARY RIPRAP THAT IS SPREAD IN PERMANENT LOCATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EROSION CONTROL MANAGEMENT AND MAINTENANCE, OR IF THERE ARE NO UNIT PRICES, THE COST SHALL BE INCIDENTAL TO THE PROJECT.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP CLEAN ALL EROSION & SEDIMENT CONTROL STRUCTURES UNTIL THE NPDES PERMIT IS ACCEPTED AS COMPLETE BY THE QCP & ADEM, AND IS TERMINATED BY THE CONTRACTOR.
6. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES (15") OR 1/2 THE HEIGHT OF THE FENCE. SEDIMENT REMOVED FROM THE SILT FENCE SHALL BE PLACED ONSITE AND STABILIZED.
7. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO KEEP THE PROJECT AREA CLEAN, INCLUDING MOTORIZED STREET SWEEPERS, WATER AND VACUUM TRUCKS, HAND SWEEPING AND SHOVELING, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
8. THE CONTRACTOR SHALL IDENTIFY WORK AREA ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL TEMPORARY GRAVEL DRIVES TO REDUCE TRACKING ONTO PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STREETS CLEAN OF ANY SEDIMENT FROM THE CONSTRUCTION SITE ON A DAILY BASIS, NO EXCEPTIONS.
9. ALL DISTURBED AREAS, INCLUDING THE EARTHEN STOCKPILES, SHALL BE MULCHED UPON COMPLETION OF GRADING OPERATIONS. ADEM REGULATIONS REQUIRE ALL DISTURBED AREAS NOT UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION FOR LONGER THAN THIRTEEN (13) DAYS TO BE PROVIDED WITH TEMPORARY GROUND COVER.
10. THE CONTRACTOR SHALL INSTALL WATTLES, SANDBAGS, AND/OR SILT FENCE TRENCHED THROUGH PAVEMENT AFTER SAW-CUTTING THE ASPHALT TO AVOID RUNOFF INTO OTHER ROADWAYS, DRIVES, AND AREAS PARALLEL AND ADJACENT TO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
11. WATTLES FOR SEDIMENT CONTROL SHALL HAVE A MINIMUM DIAMETER OF 12".
12. THE CONTRACTOR SHALL INSTALL STONE AND/OR STABILIZE ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. AS NECESSARY. ALL STONES FOR CONSTRUCTION ENTRANCE/EXIT , SIDEWALKS, ROADWAY/DRIVES, ETC. ARE CONSIDERED INCIDENTAL REGARDLESS THE NUMBER OF TIMES FRESH STONE IS REQUIRED FOR EROSION CONTROL MEASURES. AT THE END OF THE PROJECT, ALL STONE SHALL BE REMOVED AND NOT WASTED ON THE PROJECT SITE.
13. WHEN INSTALLING SILT FENCE OR OTHER BMP'S, THE CONTRACTOR SHALL USE THE LOCATIONS PROVIDED ON THE DRAWINGS OR THE CBMPP. WASTEFUL AND/OR POORLY PLANNED INSTALLATIONS SHALL NOT RECEIVE ADDITIONAL PAY FOR REINSTALLATION AFTER MOVING TO ANOTHER PHASE OF THE WORK.
14. ADEM CLOSELY MONITORS DEVELOPMENTS FOR EROSION & SEDIMENT CONTROL VIOLATIONS. VIOLATIONS CAN LEAD TO THEM ISSUING A STOP WORK ORDER. THE PROJECT SHALL FALL UNDER THE SAME GUIDELINES. ANY FINES AND LEGAL FEES ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ANY ADDITIONAL REQUIREMENTS PLACED ON THE PROJECT BY THE FINING AGENCY. THERE SHALL BE NO CLAIMS CONSIDERED OF LOST CONTRACT TIME, MONEY, ETC. DURING THE STOP WORK PERIOD. THIS IS A SITUATION TOTALLY IN THE CONTROL OF THE CONTRACTOR AND HE WILL MEET HIS RESPONSIBILITIES TO MAINTAIN A STABILIZED CONSTRUCTION SITE.
15. ALL INLETS/STRUCTURES SHALL BE COVERED BY DOME INLET PROTECTORS DURING CONSTRUCTION UNLESS OTHERWISE NOTED TO AVOID SEDIMENT RUNOFF. THESE UNITS SHALL BE KEPT CLEAN DURING CONSTRUCTION. IF THE INLET/STRUCTURE IS TOO LARGE, THEN SEDIMENT LOGS OR SILT FENCE SHALL BE USED TO PROTECT THE INLET.
16. ALL MEANS NECESSARY SHALL BE USED TO ESTABLISH TEMPORARY EROSION CONTROL INCLUDING EROSION CONTROL NETTING, SODDING, REPEATED SEEDING AND MULCHING, ETC.
17. A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED OR DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION WITH AT LEAST A GOOD STAND OF GRASS AND/OR SOD. EROSION CONTROL MEASURES INCLUDING CONSTRUCTION EXIT PADS, SHOWN HEREIN TO PREVENT EROSION AND SEDIMENT RUNOFF ARE A MINIMUM AND SHALL NOT BE INTERPRETED AS BEING ALL THAT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL BE MINDFUL DURING ALL PHASES OF CONSTRUCTION AND INSTALL AND UTILIZE ANY AND ALL ADDITIONAL ITEMS NECESSARY TO CONTROL ALL EROSION AND SEDIMENTATION ON THE PROJECT AT ALL TIMES AS REQUIRED BY ADEM AND THE ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, MOST RECENT EDITION.
18. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO DIRECT ADDITIONAL ITEMS OR REVISE IN-FIELD PLACEMENT OF EROSION CONTROL ITEMS AS DEEMED NECESSARY DURING ALL PHASES OF THE PROJECT.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT ALL SANITARY OR STORM SEWER MAINS AND MANHOLES ON A CONTINUAL BASIS IF CONSTRUCTION DEBRIS ENTERS SUCH MAINS. IN NO EVENT SHALL CONTRACTOR DISPOSE OF ANY DEBRIS OR MATERIALS IN SEWERS. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SUCH DEBRIS OR MATERIAL TO SATISFACTION OF OWNER'S REPRESENTATIVE.
20. CONTRACTOR SHALL BE OBSERVANT OF FORECASTED RAIN EVENTS AND PROMPTLY REPAIR, MAINTAIN, INSTALL NECESSARY EROSION CONTROL ITEMS PRIOR TO SUCH RAIN EVENTS. CONTRACTOR SHALL PROMPTLY MEDIATE, CLEAN UP, REMOVE ANY EROSION OR SEDIMENTATION FROM ALL EROSION CONTROL ITEMS, STRUCTURES, TRAPS, BASINS, ETC. AND REPAIR, MAINTAIN, RE-INSTALL, SUPPLEMENT SUCH IMMEDIATELY FOLLOWING EACH RAIN EVENT OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
21. ALL CONCRETE WASHOUT WATER SHALL BE COLLECTED IN A LEAK PROOF CONTAINER SO THAT IT DOES NOT REACH THE SOIL SURFACE AND THEN MIGRATE TO SURFACE WATERS OR INTO GROUNDWATER. ALL OF THE COLLECTED CONCRETE WASHOUT WATER AND SOLIDS SHALL BE RECYCLED.

MODULAR RETAINING WALL NOTES:

1. MODULAR RETAINING WALLS ARE TO BE DESIGNED BY OTHERS. RETAINING WALLS TO BE DESIGNED BY LICENSED ENGINEER IN THE STATE OF ALABAMA.
2. MODULAR BLOCK MATERIALS AND COLOR ARE TO BE APPROVED BY OWNER PRIOR TO PURCHASE.
3. THE GRADE AT TOP OF WALL IS DENOTED BY G.T.W.. GRADE AT BOTTOM OF WALL IS DENOTED BY G.B.W..

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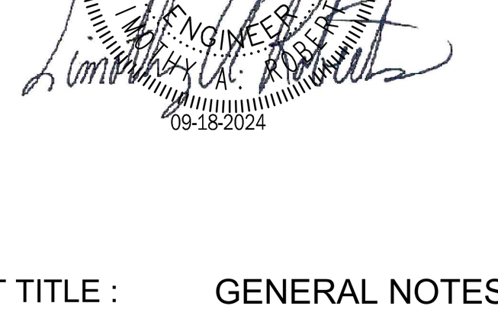

SHEET TITLE : GENERAL NOTES

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE: 9/18/2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C0.1

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DEMOLITION LEGEND

(hatched)	ASPHALT, CONCRETE, OR GRAVEL TO BE REMOVED
(zigzag line)	ITEM TO BE REMOVED
(⊗)	ITEM TO BE REMOVED

NOTE:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. EXISTING UTILITIES SHOWN FOR GENERAL REFERENCE. CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS AND RELOCATIONS WITH APPLICABLE UTILITY PROVIDERS AND CONDUCT REMOVAL/RELOCATION PER LOCAL UTILITY PROVIDER'S REQUIREMENTS.
3. CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THE PROXIMITY OF EXISTING GAS, SEWER, POWER UTILITIES, ETC.
4. RELOCATION OF GAS LINE MUST OCCUR ENTIRELY WITHIN A TIME PERIOD WHEN THE SCHOOL IS NOT IN USE. COORDINATE WITH OWNER.
5. CONTRACTOR SHALL PREVENT TRACKING OF DIRT AND SEDIMENT ON PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES ROADWAY, IT MUST BE CLEANED AT END OF EACH WORK DAY.

0 30 60 90

SCALE: 1"=30'

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SHEET TITLE :	DEMOLITION PLAN
McKEE JOB # :	24-169
DRAWN BY :	CWV
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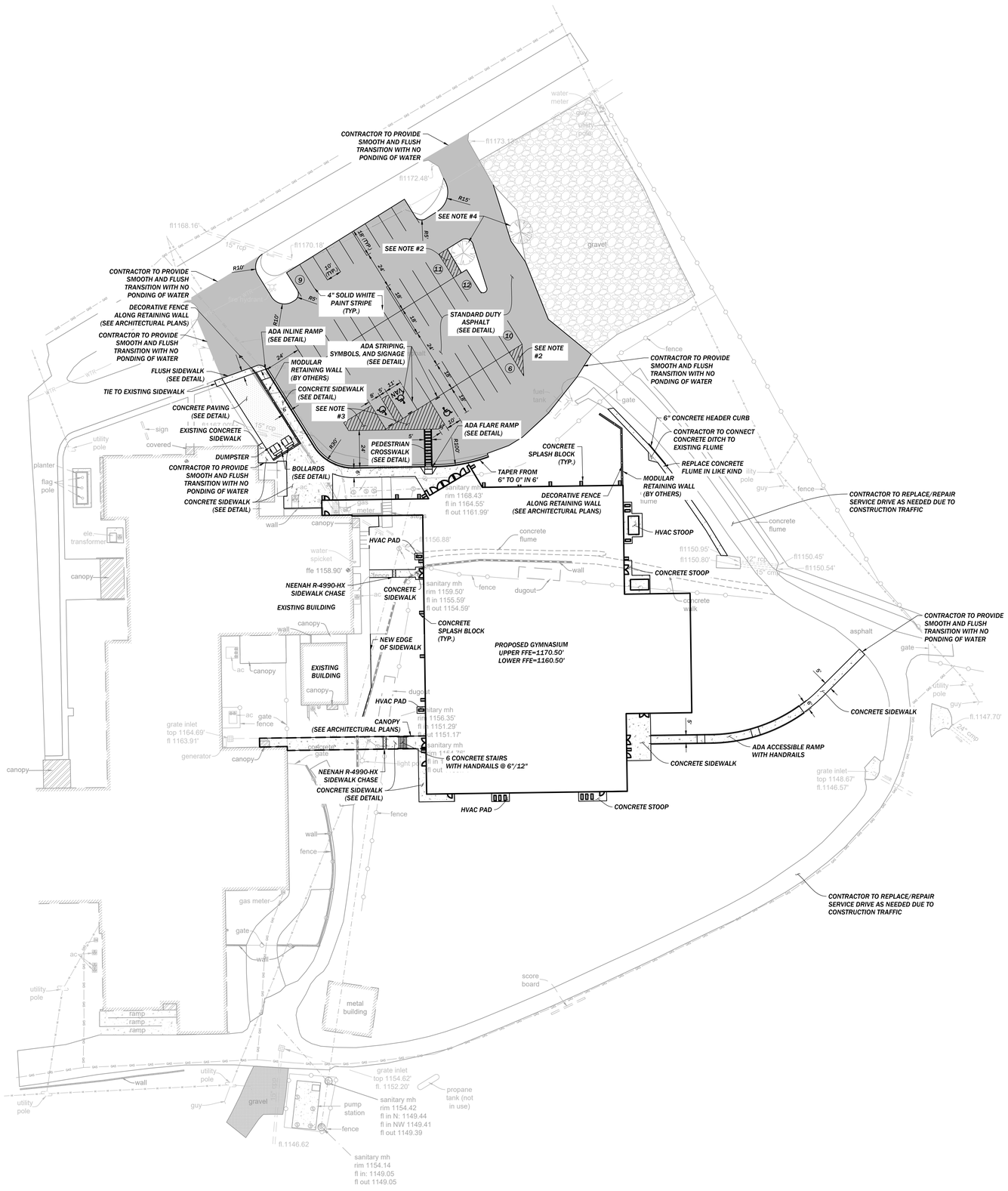

SITE LAYOUT LEGEND

- STANDARD DUTY ASPHALT (SEE DETAIL)
- CONCRETE SIDEWALK (SEE DETAIL)
- CONCRETE PAVING (SEE DETAIL)
- CHAIN LINK FENCE (SEE DETAIL)
- BUILDING CANOPY (SEE ARCHITECTURAL PLANS)
- 18" CURB AND GUTTER (SEE DETAIL)
- (#) PARKING COUNT
- REGULATORY SIGN (SEE DETAIL)

NOTE:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. 4" SOLID WHITE PAINT STRIPE @ 2" O.C. AND 45° TO TRAFFIC FLOW WITH 4" SOLID WHITE BORDER
3. 4" SOLID BLUE PAINT STRIPE @ 2" O.C. AND 45° TO TRAFFIC FLOW WITH 4" SOLID BLUE BORDER
4. EXISTING TREES TO BE PROTECTED AND REMAIN. USE CAUTION WHEN PAVING AROUND ROOT SYSTEM.

0 30 60 90

SCALE: 1"=30'

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ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER

10-18-2024

SHEET TITLE : SITE LAYOUT PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE: 9/18/2024

REVISED DATE:

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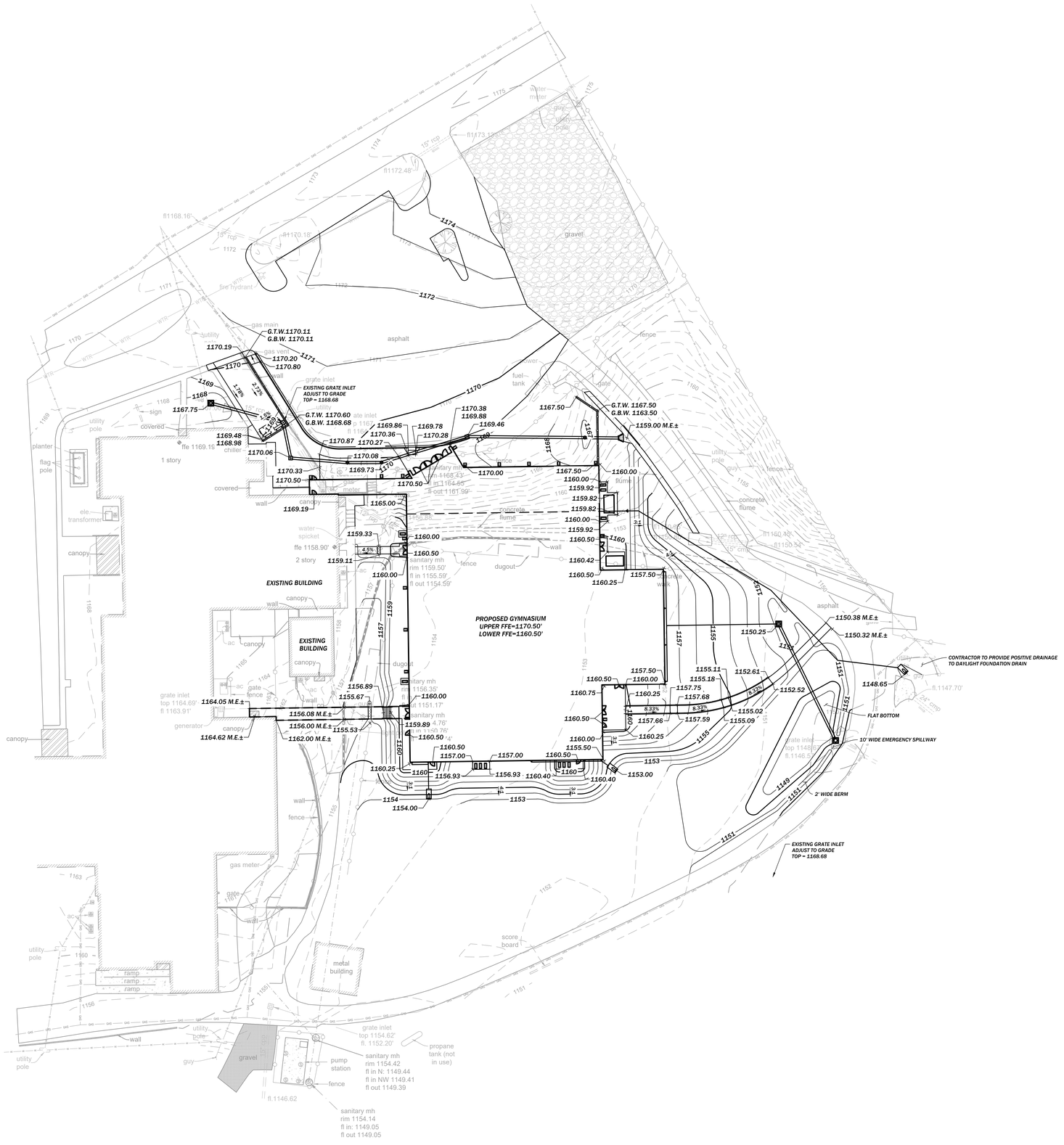

NOTE:

1. *SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.*
2. *SEE SHEET C2.1 FOR DRAINAGE INFORMATION.*

0 30 60 90

SCALE: 1"=30'

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER
10-18-2024

SHEET TITLE :	GRADING PLAN
MCKEE JOB # :	24-169
DRAWN BY :	CWV
DATE:	9/18/2024
REVISED DATE:	
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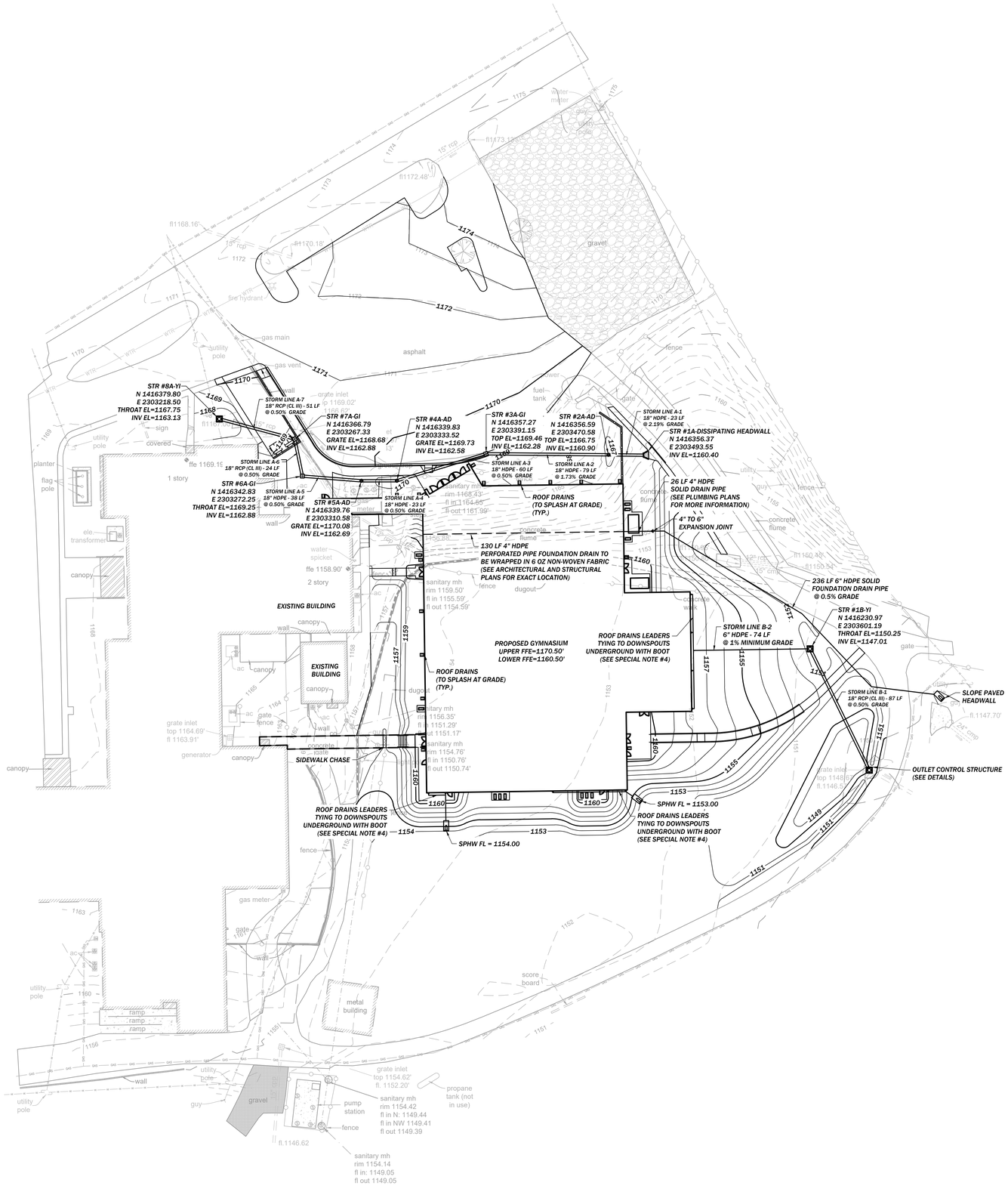

NOTE:

1. ***SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.***
2. ***SEE SHEET C2.0 FOR GRADING INFORMATION.***
3. ***ROOF DRAINS ARE TO SPLASH AT GRADE ONTO CONCRETE SPLASH BLOCKS.***
4. ***ALL ROOF DRAIN LEADERS AND COLLECTOR LINES TYING TO DOWNSPOUTS ARE TO BE 6" HDPE AT 1% MINIMUM GRADE AND HAVE A MINIMUM OF 2 FEET OF COVER.***
5. ***ROOF DRAIN LEADERS AND COLLECTOR LINES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR TO COORDINATE EXACT LOCATIONS IN FIELD WITH HVAC UNITS AND UTILITIES.***

0 30 60 90

SCALE: 1"=30'

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER
9-18-2024

SHEET TITLE : DRAINAGE PLAN

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE: 9/18/2024

REVISED DATE:

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UTILITY LEGEND

- SANITARY SEWER LINE
- POWER POLE (FOR REFERENCE ONLY)
- POWER LINE (FOR REFERENCE ONLY)
- THRUST BLOCK (SEE DETAIL)
- FIRE HYDRANT (SEE DETAIL)

NOTE:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. ALL EXISTING UTILITIES SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING I VICINITY OF EXISTING UTILITIES.
3. ALL PROPOSED UTILITIES ARE FOR REFERENCE ONLY. REFER TO PLUMBING PLANS FOR EXACT LOCATION AND CONTINUATION.

0 30 60 90

SCALE: 1"=30'

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ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER
10-18-2024

SHEET TITLE : UTILITY PLAN

MCKEE JOB # : 24-169

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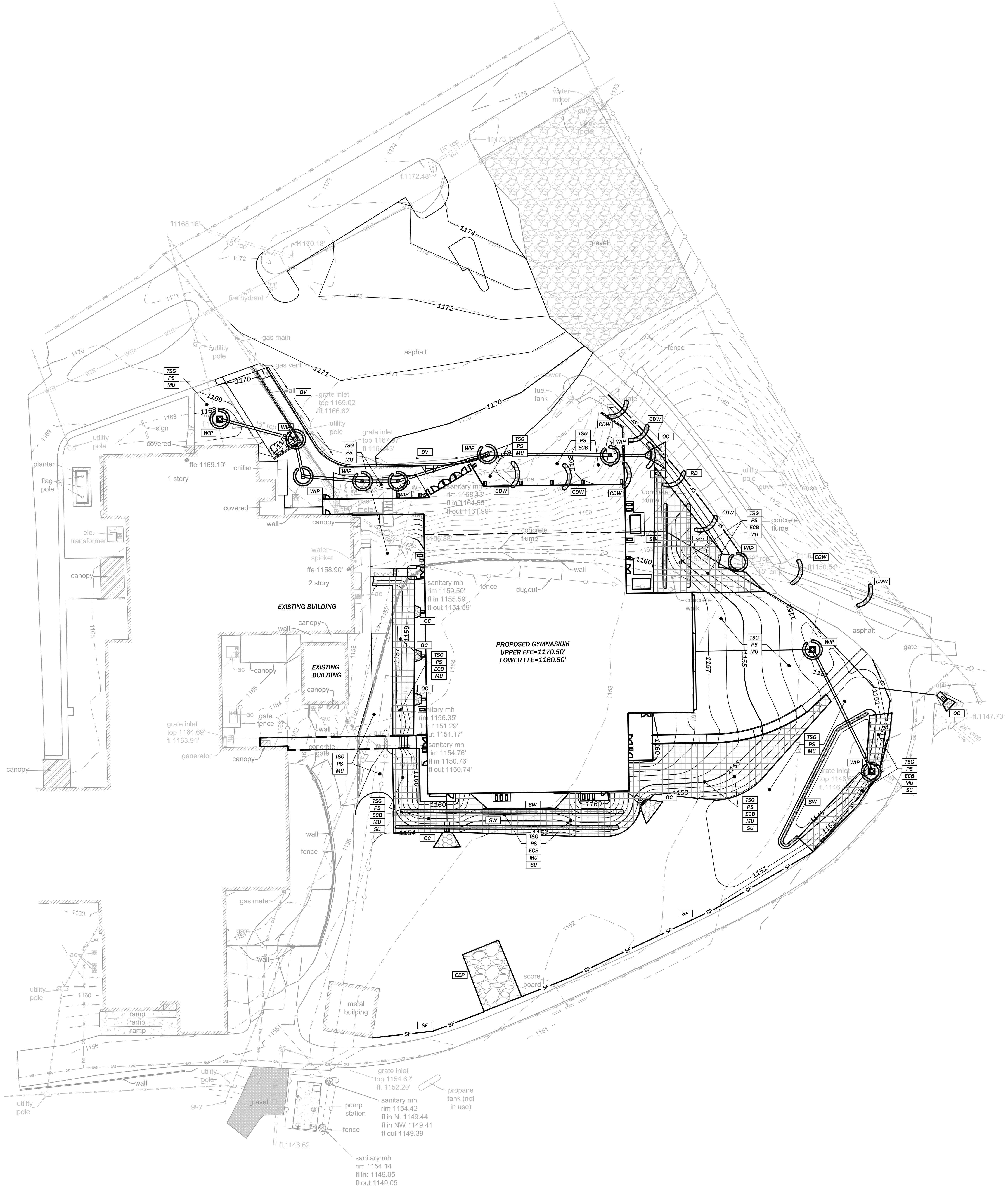

EROSION CONTROL LEGEND

- SF — SILT FENCE
- CEP — CONSTRUCTION EXIT PAD
- DV — DIVERSION CHANNEL
- WIP — WATTLE INLET PROTECTION
- SW — SLOPE WATTLE
- TSG — TOPSOILING
- PS — PERMANENT SEEDING
- ECB — EROSION CONTROL BLANKET
- OC — OUTLET CONTROL PROTECTION
- RD — ROCK FILTER DAM
- RD — WATTLE CHECK DAM

NOTE:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

SCALE: 1"=30' (0, 30, 60, 90)

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ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER
09-18-2024

SHEET TITLE :	EROSION CONTROL PLAN
MCKEE JOB # :	24-169
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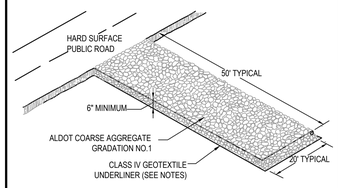
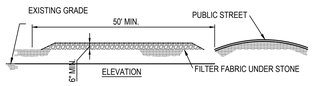


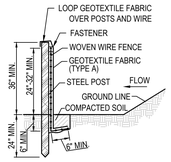
PLAN



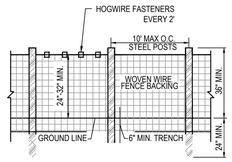
SPECIAL NOTES :

1. A STABILIZED PAD OF CRUSHED STONE SPREAD OVER FILTER FABRIC SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET. THE STONE SHALL BE ALDOT GRADATION NO. 1 STONE, FILTER FABRIC SHALL BE NONWOVEN GEOTEXTILE CLASS IV OR EQUAL.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY BY STREET CLEANING (NOT FLUSHING). WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
4. IF THE PAD SLOPE TOWARDS THE ROAD EXCEEDS 2%, A DIVERSION RIDGE 6" - 8" HIGH WITH 3:1 SIDE SLOPES MUST BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15' AWAY FROM THE ROAD AND DRAIN INTO A SEDIMENT TRAP OR BASIN.

CEP **CONSTRUCTION EXIT PAD**
N.T.S.



SIDE VIEW



FRONT VIEW

SPECIAL NOTES:
1. SILT FENCE FABRIC SHALL BE PER TABLE SB-1 FROM THE LATEST ALABAMA EROSION CONTROL HANDBOOK.
2. USE D.O.T. APPROVED WOVEN WIRE FENCE.
3. USE 5' MIN. STEEL POSTS (1.3 LB/FT MIN.).

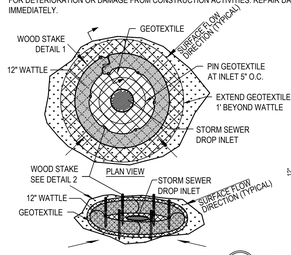
NOTES:
1. THE WOVEN WIRE FENCING SHALL BE FASTENED TO THE UPSTREAM SIDE OF POSTS BY STAPLES OF WIRE TIES.
2. GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE FENCING.

MAINTENANCE SCHEDULE:
REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR 1/2 THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. SHOULD THE FABRIC OR SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

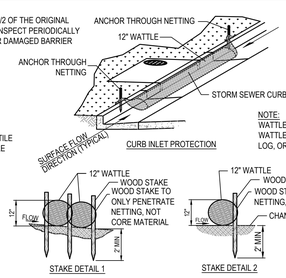
SB **SILT FENCE - TYPE A**
N.T.S.

ADEM

MAINTENANCE SCHEDULE:
REMOVE SEDIMENT DEPOSITS PROMPTLY AFTER IT HAS ACCUMULATED TO 1/2 OF THE ORIGINAL CAPACITY, TAKING CARE NOT TO UNDERMINE THE ENTRENCHED WATTLES. INSPECT PERIODICALLY FOR DETERIORATION OR DAMAGE FROM CONSTRUCTION ACTIVITIES. REPAIR DAMAGED BARRIER IMMEDIATELY.



DROP INLET PROTECTION



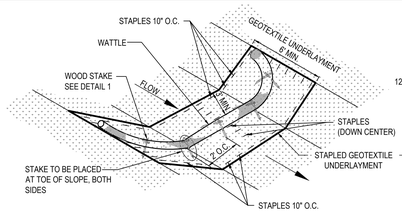
CURB INLET PROTECTION

NOTE:
WATTLES MAY BE A STRAW WATTLE, A CURLEX SEDIMENT LOG, OR APPROVED EQUAL.

STAKE DETAIL 1

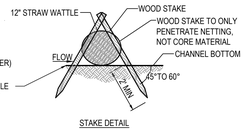
STAKE DETAIL 2

WIP **WATTLE INLET RPOTECTION**
N.T.S.



WATTLE CHECK DAMS TO BE INSTALLED WITHOUT TRENCHING AND ON TOP OF STAPLED GEOTEXTILE UNDERLAYMENT THAT EXTENDS A MINIMUM 3 FT. UP AND DOWNSTREAM FROM THE WATTLE. WATTLES MUST BE PROPERLY STAPLED WITH SOD STAPLES ON 10-INCH CENTERS ON EACH SIDE OF THE WATTLE TO PREVENT FLOTATION AND STAKED OVER THE TOP USING NON-DESTRUCTIVE TEE-PEE TYPE STAKING

WATTLE SPACING
REFER TO ALDOT SPECIAL DRAWING NO. ESC-300 FOR RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLES



STAKE DETAIL

CdW **WATTLE CHECK DAM**
N.T.S.

SECTION

NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS AND SOIL CLODS TO MAINTAIN GOOD SOIL CONTACT.
2. APPLY SEED, FERTILIZER, AND/OR LIME PRIOR TO THE INSTALLATION OF THE BLANKET.
3. STRIPS SHALL BE ROLLED OUT FLAT, PARALLEL TO DIRECTION OF FLOW WITHOUT BEING STRETCHED.
4. WHEN MULTIPLE STRIPS ARE REQUIRED TO COVER THE WIDTH OF THE SLOPE, THE SIDES SHALL OVERLAP A MINIMUM OF 3'.
5. WHEN MULTIPLE STRIPS ARE REQUIRED TO COVER THE LENGTH OF THE SLOPE, THE ENDS SHALL OVERLAP A MINIMUM OF 6".
6. THE UPSLOPE END SHALL BE ANCHORED IN A 6" VERTICAL TRENCH AND BACKFILLED (NOTE: WHEN, IN THE OPINION OF THE QCP, CONDITIONS WARRANT, OTHER EDGES EXPOSED TO EXCESSIVE FLOW SHALL BE INSTALLED AS PREVIOUSLY SPECIFIED).
7. STAPLES SHALL BE U-SHAPED WIRE WITH A MINIMUM 11 GAUGE THICKNESS, AND THE LEGS SHALL BE AT LEAST 6" LONG WITH A 1" CROWN.
8. EACH STRIP SHALL BE STAPLED IN 3 ROWS, AT EDGES AND CENTER, WITH STAPLES SPACED NOT MORE THAN A 3 FOOT GRID.

TEMPORARY EROSION CONTROL BLANKET
NOT TO SCALE

PLAN

PLAN

SECTION A-A

PIPE OUTLET TO FLAT AREA - NOT WELL-DEFINED CHANNEL

SECTION A-A

PIPE OUTLET TO WELL-DEFINED CHANNEL

NOTES:
1. IN A WELL DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO THE TOP OF THE BANK.
2. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION. A NON-WOVEN GEOTEXTILE MEETING THE REQUIREMENTS OF AASHTO M288 FOR A CLASS 2 SEPARATION GEOTEXTILE.

OUTLET PROTECTION DURING CONSTRUCTION
NOT TO SCALE

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NEW GYMNASIUM AT APPALACHIAN SCHOOL
FOR THE
BLOUNT COUNTY BOARD OF EDUCATION
ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER
09-18-2024

SHEET TITLE : EROSION CONTROL DETAILS

MCKEE JOB # : 24-169

DRAWN BY : CWV

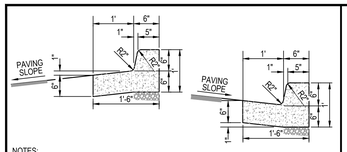
DATE: 9/18/2024

REVISED DATE:

REVISED DATE:

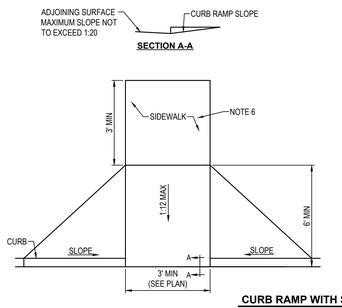
REVISED DATE:

SHEET NO. : C4.1



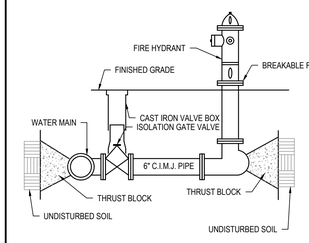
NOTES:
1. SLOPE GUTTER AS SHOWN ACCORDING TO PAVING SLOPE. THIS SLOPE SHALL NOT EXCEED 5% TO COMPLY WITH ADA REQUIREMENTS AT ANY HANDICAP RAMP.
2. PROVIDE EXPANSION JOINTS WITH PREFORMED JOINT FILLER MATERIAL CUT TO MATCH SHAPE OF CURB AND GUTTER OF AT LEAST 1/2 INCH IN WIDTH AT INTERVALS NOT LESS THAN 30' NOR GREATER THAN 100' AND AT P.C.'S AND P.T.'S OF ALL CURVES, AT STRUCTURES (CURB INLETS, WHEELCHAIR RAMPS, ETC.).
3. SAWCUT 3/16" JOINTS AT SPACING NOT LESS THAN 5' AND NOT TO EXCEED 15' JOINT. DEPTH SHALL BE 1/4 DEPTH OF CURB/GUTTER. JOINT TO BE PERPENDICULAR TO THE RUN OF THE CURB AND GUTTER.
4. IF ADJACENT TO CONCRETE PAVING SIDEWALK LINE UP JOINTS WITH ADJACENT CONCRETE JOINTS.
5. 3,500 PSI CONCRETE UNLESS STATED OTHERWISE.
6. PROVIDE 6" CRUSHED STONE BASE UNDER ALL CURBS AND GUTTERS.
7. VERIFY SHAPE OF CURB TO MATCH ANY EXISTING CONDITIONS OR LOCAL STANDARDS.

18" CURB & GUTTER
N.T.S.

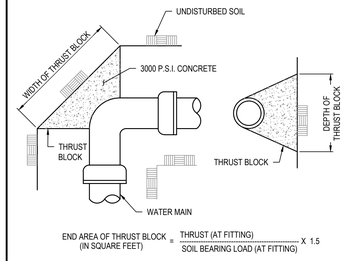


NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (INCLUDING CONTRASTING TEXTURES, AS REQUIRED).
2. TEXTURES SHALL CONSIST OF EXPOSED CRUSHED STONE AGGREGATE, ROUGHENED CONCRETE, RUBBER, RAISED ABRASIVE STRIPS, OR GROOVES EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP. SURFACES THAT ARE RAISED, ETCHED, OR GROOVED IN A WAY THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED.
3. FOR PURPOSES OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.
4. AT RAMPS OPPOSITE OUT-SWING DOORS, MINIMUM DISTANCE TO WALL IS 60".
5. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES,PARKING SPACES , OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
6. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.
7. RAMP FLARES SHALL BE NO STEEPER THAN 1:10. (FOR ALTERATIONS WHERE THERE IS NO LANDING, FLARE SLOPE SHALL BE NO STEEPER THAN 1:12.

CURB RAMP WITH SIDE FLARES
N.T.S.



FIRE HYDRANT ASSEMBLY
N.T.S.



SOIL BEARING LOAD

SOIL	BEARING LOAD P.S.F.
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD PAN	9,000

THRUST AT FITTINGS IN POUNDS*

PIPE SIZE	90° BEND	45° BEND	22.5° BEND	TEE OR PLUG
4"	2,666	1,443	735	1,885
6"	5,998	3,246	1,655	4,241
8"	10,663	5,771	2,942	7,540
10"	16,661	9,017	4,597	11,781
12"	23,992	12,984	6,619	16,965
14"	32,655	17,673	9,010	23,091
16"	42,652	23,083	11,768	30,160
18"	53,981	29,214	14,893	38,170
20"	66,643	36,067	18,387	47,124
24"	95,966	51,937	26,477	67,858

*BASED ON 150 PSI TEST PRESSURE

END AREA OF THRUST BLOCK (IN SQUARE FEET) = THRUST (AT FITTING) / SOIL BEARING LOAD (AT FITTING) X 1.5

NOTE: THE WIDTH OF THE THRUST BLOCK SHALL BE 2X THE DEPTH OF THE THRUST BLOCK.

TYPICAL THRUST BLOCK
N.T.S.

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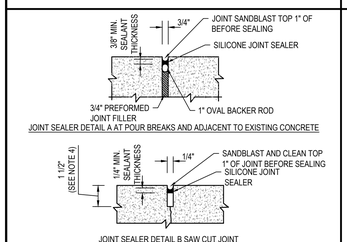


JOINT SEALER DETAIL A AT POUR BREAKS AND ADJACENT TO EXISTING CONCRETE

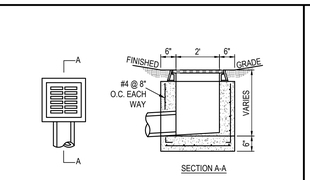
JOINT SEALER DETAIL B SAW CUT JOINT

DOWELS SHALL BE 14" LONG EXPANSION JOINT - DOWELED AT POUR BREAKS

CONTROL JOINT - TYP.

NOTES:
1. CONTRACTOR SHALL INSTALL 4" OF CRUSHED AGGREGATE BASE COURSE, TYPE B (ALDOT 825) UNDER ALL CONCRETE PAVING
2. CONCRETE SHALL HAVE 4000 PSI AT 28 DAYS
3. CONTRACTOR SHALL INSTALL CONTROL JOINTS IN CONCRETE PAVING AT 12' MAX SPACING BOTH WAYS. COORDINATE WITH ARCHITECTURAL PLANS FOR SCORING PATTERN.
4. CONTROL JOINT TO BE 1/4 OF THE SLAB THICKNESS TYPICALLY.
5. EXPANSION JOINTS AT POUR BREAKS AND 100' MAX SPACING. COORDINATE WITH CONTROL JOINTS. WHERE CONCRETE PAVING ABUTS BUILDING STRUCTURES, COLUMNS, FOOTINGS, POLE BASES, INLETS AND OTHER SIMILAR IMMOVABLE OBJECTS, CONTRACTOR SHALL PROVIDE EXPANSION JOINT WITH FILLER MATERIAL. CONTRACTOR SHALL ALSO PROVIDE CONTROL JOINTS TO MINIMIZE POTENTIAL FOR CRACKING. COORDINATE WITH ENGINEER FOR LOCATIONS.
6. IN LIEU OF REINFORCEMENT SHOWN, CONTRACTOR MAY USE 4x4 W2.9/W2.9 WELDED WIRE FABRIC
7. IF DRY-CUTTING OF CONTROL JOINTS IS USED, AN ABRASIVE BLADE MAY BE USED IN LIEU OF SANDBLASTING.

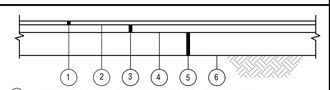
CONCRETE PAVING
N.T.S.



NOTES:
1. FOR INLETS IN LANDSCAPE AREAS, INLET FRAME AND GRATE SHALL BE NEENAH R-1979-ASG OR SIMILAR AND EQUAL.
2. IN LIEU OF CAST IN PLACE BOX, A PRECAST MANHOLE IS AN ACCEPTABLE ALTERNATE.

(*) TO ACCOMMODATE SKEWED PIPE, LARGER PIPE, SEVERAL PIPES, OR FIT OTHER CONDITIONS, IT MAY BE NECESSARY TO INCREASE ONE OR BOTH PLAN VIEW DIMENSIONS OF INLET BOX AND COVER SLAB.

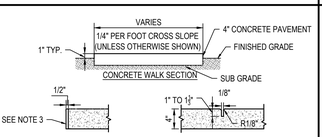
GRATE INLET IN LANDSCAPED AREAS
N.T.S.



1. REQUIRED 1.5 INCH BITUMINOUS CONCRETE, WEARING LAYER (ALDOT 424A - ½" MAX AGGREGATE SIZE)
2. REQUIRED TACK COAT (ALDOT 405).
3. REQUIRED 2 INCHES BITUMINOUS CONCRETE, BINDER LAYER (ALDOT 424B- ¾" MAX AGGREGATE SIZE).
4. REQUIRED BITUMINOUS TREATMENT (PRIME) (ALDOT 401, TYPE A)
5. REQUIRED 6 INCHES CRUSHED AGGREGATE BASE COURSE, TYPE B, (ALDOT 825). COMPACTED TO 100% OF THE MODIFIED PROCTOR.
6. SUBGRADE: TOP 12 INCHES - 98% COMPACTION ASTM D-698.

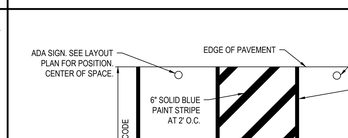
NOTE: ALL MIX DESIGNS ARE PER THE "ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" - 2018 EDITION.

STANDARD DUTY ASPHALT PAVING
N.T.S.



NOTES:
1. CONTRACTION (SAW CUT) JOINTS TO BE EVERY 5 TO 8 FEET WITH A MAXIMUM SPACING OF TWICE THE SLAB THICKNESS IN FEET; CUT TO A DEPTH OF 1" MINIMUM TO 1½" MAXIMUM.
2. CUT CONTRACTION JOINTS BETWEEN 2 HOURS AND 12 HOURS OF CONCRETE PLACEMENT.
3. PLACE ISOLATION JOINTS WHEN ADJACENT TO BUILDINGS, CURBS, ETC. USE A ½" THICK PRE-MOULDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751 OR D1752 TO CREATE A BOND BREAK. INSTALL JOINT SEALER OVER JOINT FILLER.
4. CONCRETE TO BE 4000 PSI COMPRESSIVE STRENGTH UNLESS OTHERWISE NOTED.
5. PLACE SIDEWALK ON COMPACTED SUBGRADE- 98% STANDARD PROCTOR DENSITY (ASTM D698) UNLESS OTHERWISE NOTED.

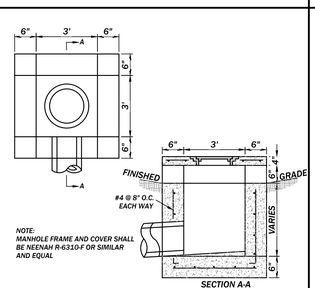
TYPICAL SIDEWALK DETAIL
N.T.S.



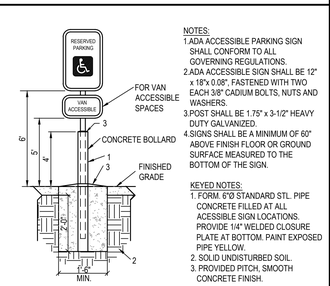
* 8' VAN ACCESSIBLE SPACE SHOWN. SEE NOTE 2.

NOTES:
1. ALL ACCESSIBLE PARKING AND ROUTES TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
2. FOR VAN SPACE, 8' MINIMUM SPACE WITH 8' MINIMUM ACCESS AISLE OR 11' MINIMUM SPACE WITH 5' MINIMUM ACCESS AISLE.
3. CAN REPEAT DETAIL IF ADDITIONAL SPACES ARE REQUIRED. (SEE LAYOUT PLAN).
4. SIGN NOTES:
   a. SIGNS LOCATED IN PAVEMENT SHALL BE BOLLARD TYPE SIGN. SEE BOLLARD MOUNTED ACCESSIBLE SIGN DETAIL.
   b. SIGNS LOCATED BEYOND PAVEMENT SHOULD BE MOUNTED ON POST PER ACCESSIBLE SIGN DETAIL.
   c. DO NOT PLACE SIGNS WITHIN THE ACCESSIBLE ROUTE
5. CONTRACTOR TO VERIFY WITH LOCAL CODES FOR ANY ADDITIONAL REQUIREMENTS.

ACCESSIBLE PARKING
N.T.S.



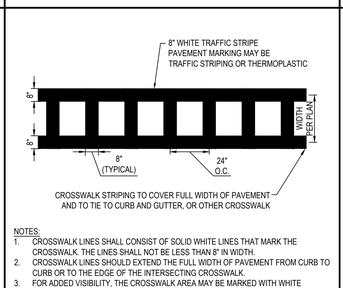
YARD INLET
N.T.S.



NOTES:
1. ADA ACCESSIBLE PARKING SIGN SHALL CONFORM TO ALL GOVERNING REGULATIONS.
2. ADA ACCESSIBLE SIGN SHALL BE 12" x 18"x 0.08", FASTENED WITH TWO EACH 3/8" CADIUM BOLTS, NUTS AND WASHERS.
3. POST SHALL BE 1.75" x 3-1/2" HEAVY DUTY GALVANIZED.
4. SIGNS SHALL BE A MINIMUM OF 60" ABOVE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

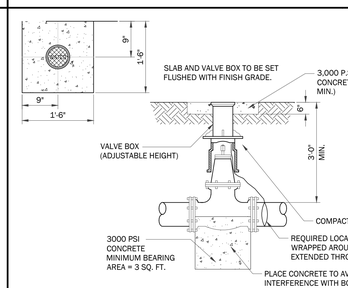
KEYED NOTES:
1. FORM. 6'Ø STANDARD STL. PIPE CONCRETE FILLED AT ALL ACCESSIBLE SIGN LOCATIONS. PROVIDE 1/4" WELDED CLOSURE PLATE AT BOTTOM. PAINT EXPOSED PIPE YELLOW.
2. SOLID UNDISTURBED SOIL.
3. PROVIDED PITCH, SMOOTH CONCRETE FINISH.

BOLLARD MOUNTED ADA ACCESSIBLE SIGN
N.T.S.

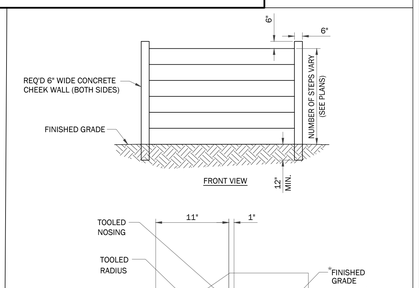


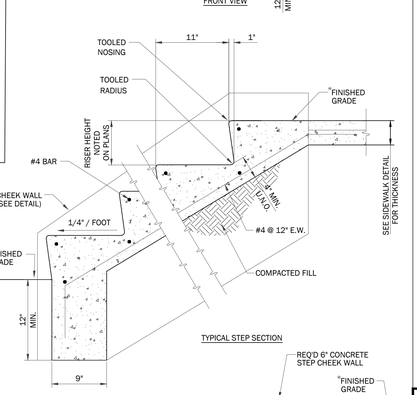
NOTES:
1. CROSSWALK LINES SHALL CONSIST OF SOLID WHITE LINES THAT MARK THE CROSSWALK. THE LINES SHALL NOT BE LESS THAN 8" IN WIDTH.
2. CROSSWALK LINES SHOULD EXTEND THE FULL WIDTH OF PAVEMENT FROM CURB TO CURB OR TO THE EDGE OF THE INTERSECTING CROSSWALK.
3. FOR ADDED VISIBILITY, THE CROSSWALK AREA MAY BE MARKED WITH WHITE DIAGONAL LINES AT 45 DEGREE ANGLE TO THE LINE OF THE CROSSWALK.

PEDESTRIAN CROSSWALK
N.T.S.



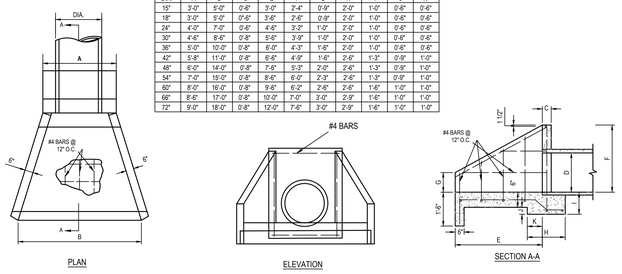
GATE VALVE AND BOX DETAIL
NOT TO SCALE





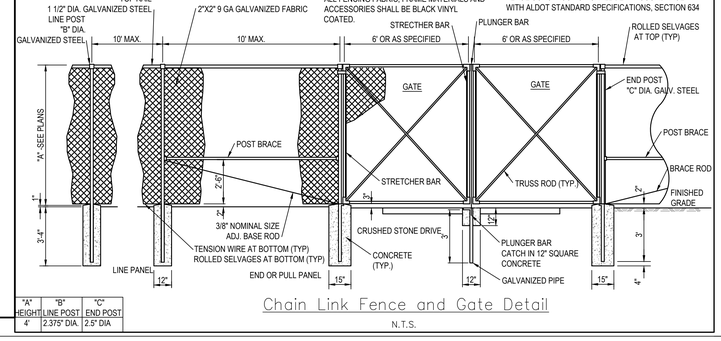
NOTES:
1. REINFORCEMENT BARS SHALL BE EXTENDED THROUGH STEPS (LATERALLY) INTO STEP 6" CURB BORDER.
2. REINFORCEMENT BARS SHALL RUN PARALLEL (LONGITUDINALLY) IN STEP 6" CURB BORDER.
3. STEP CHEEK WALL SHALL BE POURED WITH STEPS AND BOTH TIED TOGETHER WITH REINFORCEMENT BARS.
4. SEE ARCHITECTURAL PLANS FOR REQUIRED HANDRAILS, IF ANY.
5. IF HANDRAILS ARE TO BE CAST INTO CURB BORDER, THEN THE CONTRACTOR SHALL MAKE SURE HE INCORPORATES THE REQUIREMENTS SET FORTH IN THE ARCHITECT'S DETAILS TO THIS DETAIL.
6. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
7. THE SUBGRADE MODULUS SHALL BE A MINIMUM OF 150 PCI. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY THE SUBGRADE MODULUS DURING CONSTRUCTION.
8. CONTRACTOR SHALL REFERENCE THE CONSTRUCTION PLANS SIDEWALK DETAILS FOR THICKNESS, REINFORCEMENT, SCORING, ETC.

TYPICAL STEP DETAIL WITH CHEEK WALL
NOT TO SCALE



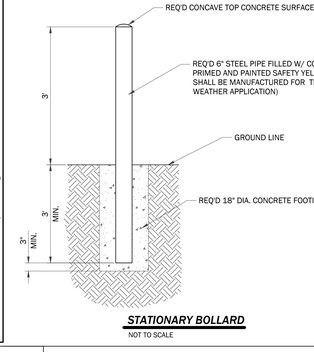
DIMENSIONS FOR HEADWALL									
DIA	A	B	C	E	F	G	H	I	J	K
15"	3'-0"	5'-0"	0'-6"	3'-0"	2'-4"	0'-9"	2'-0"	1'-0"	0'-6"	0'-6"
18"	3'-0"	5'-0"	0'-6"	3'-6"	2'-6"	0'-9"	2'-0"	1'-0"	0'-6"	0'-6"
24"	4'-0"	7'-0"	0'-6"	4'-6"	3'-2"	1'-0"	2'-0"	1'-0"	0'-6"	0'-6"
30"	4'-6"	8'-6"	0'-8"	5'-6"	3'-9"	1'-0"	2'-0"	1'-0"	0'-6"	0'-6"
36"	5'-0"	10'-0"	0'-8"	6'-0"	4'-3"	1'-6"	2'-0"	1'-0"	0'-6"	0'-6"
42"	5'-6"	11'-0"	0'-8"	6'-6"	4'-9"	1'-6"	2'-6"	1'-3"	0'-9"	1'-0"
48"	6'-0"	14'-0"	0'-8"	7'-6"	5'-3"	2'-0"	2'-6"	1'-3"	0'-9"	1'-0"
54"	7'-0"	15'-0"	0'-8"	8'-6"	6'-0"	2'-3"	2'-6"	1'-3"	0'-9"	1'-0"
60"	8'-0"	16'-0"	0'-8"	9'-6"	6'-2"	2'-6"	2'-6"	1'-6"	1'-0"	1'-0"
66"	8'-6"	17'-0"	0'-8"	10'-0"	7'-0"	3'-0"	2'-9"	1'-6"	1'-0"	1'-0"
72"	9'-0"	18'-0"	0'-8"	12'-0"	7'-6"	3'-6"	2'-9"	1'-6"	1'-0"	1'-0"

VERTICAL HEADWALL
N.T.S.

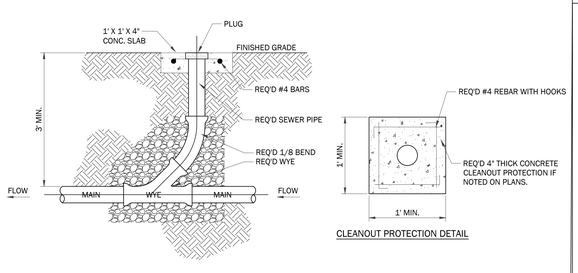


"A" HEIGHT	"B" LINE POST	"C" END POST
4'	2.375" DIA.	2.5" DIA

Chain Link Fence and Gate Detail
N.T.S.

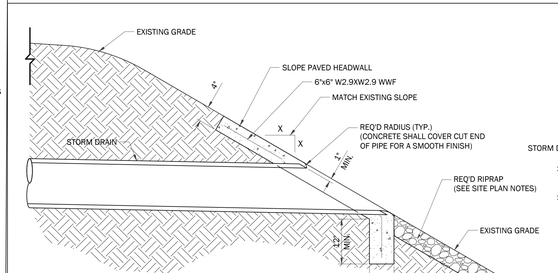


STATIONARY BOLLARD
NOT TO SCALE

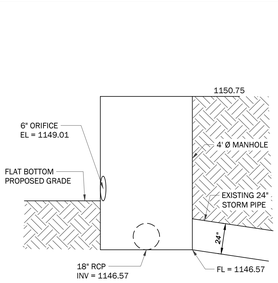


NOTES:
1. CLEANOUT CONCRETE PROTECTION SHALL BE USED AS NOTED ON THE PLANS.
2. CLEANOUTS LOCATED IN PAVED AREAS (SIDEWALK, ROADWAYS, ETC.) SHALL HAVE TRAFFIC RATED TOPS.

CLEANOUT DETAIL
NOT TO SCALE



SLOPE PAVED HEADWALL DETAIL
NOT TO SCALE



OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE

NEW GYMNASIUM AT APPALACHIAN SCHOOL
FOR THE
BLOUNT COUNTY BOARD OF EDUCATION
ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER
09-18-2024

SHEET TITLE : CIVIL DETAILS

MCKEE JOB # : 24-169

DRAWN BY : CWV

DATE: 9/18/2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C5.0

- X:\2024\1124-11-01555.00 McKee & Associates - Appalachian School - Gym Addition\Civil\Construction Plans\Appalachian HS Gym Addition.dwg
- Wednesday, October 2, 2024 11:57:30 AM

EXISTING CONDITIONS AND COORDINATION:

1. PROJECT PLANS HAVE BEEN DEVELOPED FROM A VISUAL EXAMINATION (WHERE APPLICABLE) OF THE EXISTING BUILDING AND/OR PROJECT PLANS PROVIDED BY THE ARCHITECT OR PROJECT MANAGER. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS RELATED TO EXISTING CONSTRUCTION AND CONDITIONS AND MAKE MINOR ADJUSTMENTS AS REQUIRED. REPORT SIGNIFICANT DIFFERENCES TO ARCHITECT/ENGINEER.
2. SEE ARCHITECTURAL PLANS FOR ALL DIMENSIONS NOT SHOWN.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PROJECT DRAWINGS AND SPECIFICATIONS INCLUDING THESE STRUCTURAL DRAWINGS.
4. APPLICABLE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO PRODUCTION.
5. FINISH FLOOR ELEVATION IS TO TOP OF PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / SEOR OF ANY POTENTIAL OR DISCOVERED CONFLICTS, OMISSIONS OR DISCREPANCIES IN THE CONTRACT DRAWINGS OF OR RELATED TO THE STRUCTURAL DESIGN OF THE BUILDING PRIOR TO PROCEEDING.
7. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR PROVIDING DESIGN OR COORDINATING OTHER ENGINEERING DISCIPLINES, ARCHITECTURAL DETAILING, ADA COMPLIANCE, OR ANY OTHER NON-STRUCTURAL CODES OR STANDARDS. EVERY EFFORT HAS BEEN MADE TO ACCOMMODATE AND COORDINATE THESE ITEMS, BUT FINAL COORDINATION AND COMPLIANCE IS THE RESPONSIBILITY OF THE ARCHITECT, PROJECT MANAGER, OR OWNER AS IS APPLICABLE FOR THE PROJECT.

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH SECTION 17 OF THE REFERENCED EDITION OF THE IBC. THE MATERIAL, SYSTEMS, COMPONENTS, AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS ARE INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.THE TYPE OF EACH SPECIAL INSPECTION OR TEST IS NOTED IN THE SPECIAL INSPECTION SCHEDULE. THE FREQUENCY OF THE SPECIAL INSPECTION (PERIODIC / CONTINUOUS) IS NOTED WITH THE SPECIAL INSPECTION SCHEDULE.

1. THE SEOR IS NOT RESPONSIBLE FOR PERFORMING THE SPECIAL INSPECTIONS ON THIS PROJECT. A QUALIFIED INSPECTOR SHALL BE REQUIRED IN ACCORDANCE WITH IBC 1704.2.1.
2. ANY ADDITIONAL STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH IBC 1704.6 ARE NOTED ON THESE DRAWINGS.

GEOTECHNICAL INFORMATION

1. THE FOUNDATION SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE REPORT OF GEOTECHNICAL SUBSURFACE INVESTIGATION BY TERRACON DATED SEPTEMBER 19, 2022 (TERRACON PROJECT NO. E5215061). FOR THE PURPOSE OF THESE STRUCTURAL DRAWINGS, SELECT INFORMATION HAS BEEN EXTRACTED FROM THE REFERENCED GEOTECHNICAL REPORT AND NOTED BELOW; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, READ, AND FOLLOW ALL RECOMMENDATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT.
2. THE CONTRACTOR SHALL VERIFY THE CAPABILITY OF THE SOIL STRATA TO SUPPORT FOUNDATIONS PRIOR TO CASTING THE FOUNDATION.
3. THE FOUNDATION SHALL EXTEND TO A MINIMUM OF THE FROST PENETRATION DEPTH, TO A DEPTH WHERE SOIL MOISTURE CONTENT DOES NOT FLUCTUATE, A MINIMUM DEPTH OF 24" INTO ORIGINAL SOIL OR A MINIMUM DEPTH TO ACHIEVE THE BELOW NOTED BEARING CAPACITY (WHICHEVER IS GREATER).
4. NOTIFY THE ENGINEER SHOULD ANY UNUSUAL SOIL CONDITIONS BE ENCOUNTERED.

FOUNDATIONS:

1. THE "CONTROLLED AREA" SHALL EXTEND BENEATH AND 5 FEET BEYOND THE BUILDING AREA. THE "CONTROLLED AREA" SHALL BE COMPLETELY STRIPPED AND ALL SURFACE VEGETATION, ORGANIC FILL OR TOPSOIL, DEBRIS AND ANY OTHER
2. THE SUBGRADE ELEVATIONS SHALL BE ESTABLISHED BY CONSTRUCTION OF AN ENGINEERED FILL USING SUITABLE FILL EARTH AND PLACED IN LIFTS NOT TO EXCEED 8". THE SUBGRADE SHALL BE DENSIFIED TO 98% (MIN.) STANDARD DENSITY (ASTM D-698A). VERIFYING IN-PLACE DENSITY TESTS ARE REQUIRED.
3. THE CONTRACTOR SHALL DE-WATER THE AREA OF THE BUILDING FOOTPRINT AS REQUIRED TO PREVENT PONDING OF WATER IN THE FOOTING TRENCHES AND SLAB AREAS DURING EXCAVATION AND PRIOR TO CASTING FOOTINGS.
4. ASSUMED BEARING CAPACITY AS LISTED BELOW SHALL BE VERIFIED PRIOR TO CASTING FOOTINGS.
5. FOUNDATION DESIGN PARAMETERS:
   - 5.1. ALLOWABLE BEARING CAPACITY NATIVE SOIL OR WELL COMPACTED FILL-- 3000 PSF
   - 5.2. ALLOWABLE BEARING CAPACITY DIRECTLY ON WEATHERED SANDSTONE -- 6000 PSF
   - 5.3. MINIMUM PERIMETER FOOTING BEARING DEPTH BELOW OUTSIDE FINISH GRADE --------- 18"

CONCRETE:

1. CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318).
2. CONCRETE SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTH (f'c) AT 28 DAYS BASED UPON ITS USE:
   - 2.1. FOOTINGS -- 3000 PSI (MIN.)
   - 2.2. SLAB ON GRADE --- 3000 PSI (MIN.)
   - 2.3. COLUMNS, BEAMS -- 4000 PSI (MIN.)
   - 2.4. ELEVATED SLABS -- 4000 PSI (MIN.)
   - 2.5. RETAINING WALLS --- 4000 PSI (MIN.)
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.
4. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A1064.
   - 4.1. SLABS ON GRADE SHALL BE REINFORCED AS INDICATED ON PLANS W.W.F. PLACED AT 1/3 SLAB THICKNESS FROM TOP.
   - 4.2. W.W.F. SHALL BE SUPPORTED ON PLASTIC CHAIRS OR CEMENTIOUS BLOCKS A THE CORRECT HEIGHT AS NOTED ABOVE AND AS SHOWN IN DETAILS.
5. CAST IN PLACE ANCHOR RODS SHALL CONFORM TO ASTM F 1554 GR. 36.
6. MINIMUM CONCRETE COVER, (UNLESS OTHERWISE NOTED ON DRAWINGS) FOR REINFORCING SHALL BE:
   - 6.1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH --------- 3 IN.
   - 6.2. EXPOSED TO EARTH OR WEATHER --- 2 IN.
   - 6.3. BEAMS AND COLUMNS -- $1\frac{1}{2}$ IN.
7. LAP ALL CONTINUOUS REINFORCEMENT WITH A CLASS B LAP SPLICE AS SPECIFIED IN LAP SPLICE SCHEDULE.
8. AT EXTERIOR BUILDING CORNERS FOOTINGS, PROVIDE 3'-0" X 3'-0" CORNER BARS, SAME SIZE AND NUMBER AS DETAILED HORIZONTAL BARS.
9. DOWEL ALL FOOTINGS WHERE THEY ABUT WITH SAME REINFORCEMENT AS DETAILED HORIZONTALLY AND WITH 2'-0" MINIMUM LAP.
10. CAST IN PLACE CONCRETE WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION . TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
11. SUBMITTALS
12. CONCRETE MIX DESIGNS
    - 12.1. SUBMITTALS SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 318 (LATEST EDITIONS) PRIOR TO COMMENCEMENT OF CONCRETE WORK.
    - 12.2. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO SCHEDULING CONCRETE DELIVERY TO JOB SITE.
13. REINFORCEMENT SUBMITTALS
    - 13.1. SUBMITTALS SHALL BE IN ACCORDANCE WITH ACI 315 (LATEST EDITION) AND SHOW, AT MINIMUM, ALL SIZES, DIMENSIONS, LOCATIONS OF ALL REINFORCEMENT AND EMBEDMENTS.
    - 13.2. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO FABRICATING REINFORCEMENT.

MASONRY:

1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOADBEARING CONFORMING TO ASTM C 90 ALL LOCATIONS.
2. MORTAR SHALL BE BE PROPORTIONED IN ACCORDANCE WITH ASTM C270.
3. GROUT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476.
4. TYPE M OR S FOR BELOW GROUND LEVEL AND EITHER TYPE N OR S FOR ABOVE GROUND CONFORMING TO ASTM C-270.
   - 4.3. MINIMUM INDIVIDUAL NET AREA COMPRESSIVE STRENGTH OF SINGLE CMU------------------------------------ 2000 PSI
   - 4.4. MINIMUM DESIGN STRENGTH OF MASONRY (f'_m)-- 2000 PSI
   - 4.5. GROUT COMPRESSIVE STRENGTH -- 3000 PSI
5. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE FABRICATED WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CROSSRODS SPACED NOT MORE THAN 16" O.C. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF SINGLE AND MULTIPLE WIDTH UNIT WALLS.
6. FILLED CELLS INDICATED ON PLAN SHALL BE FILLED WITH GROUT IN LIFTS OF 48" (MAX). TERMINATE LIFT 1-1/2" BELOW BED JOINT TO CREATE SHEAR KEY TO NEXT LIFT.
7. STARTER DOWELS AND EACH ADDITIONAL VERTICAL BAR SHALL BE TIED IN ACCORDANCE WITH TMS SPECIFICATIONS AND LAPPED PER CMU LAP SCHEDULE.
8. "WET SETTING" DOWELS SHALL NOT BE ALLOWED.
9. MASONRY WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION. TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. MASONRY CONTROL JOINTS (M.C.J.) SHALL BE REQUIRED WITH SPACING SHOWN ON ARCHITECTURAL PLAN, MAXIMUM SPACING OF 25' OR 3 TIMES WALL HEIGHT ALONG WALL LENGTH AND 12'-0" MAX FROM WALL CORNERS. CONSTRUCT AS SHOWN ON MASONRY CONTROL JOINT DETAIL ON STRUCTURAL DRAWINGS.

STRUCTURAL STEEL

1. STRUCTURAL W-SECTION SHAPES SHALL CONFORM TO ASTM A992.
2. STRUCTURAL RECTANGULAR HSS SHALL CONFORM TO ASTM A500 GR. C.
3. STRUCTURAL ROUND HSS SHALL CONFORM TO ASTM A500 GR. C.
4. STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL CONFORM TO ASTM A36.
5. STRUCTURAL BOLTS SHALL BE ASTM A-325X WITH NUTS AND WASHERS.
6. DETAIL, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST AISC STANDARDS AND SPECIFICATIONS.
7. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION)
8. ELECTRODES SHALL BE E70XX.
9. UNLESS OTHERWISE NOTED OR DETAILED, ALL SHEAR CONNECTIONS SHALL BE DESIGNED USING THE APPROPRIATE DATA FROM PART 10 -"DESIGN OF SIMPLE SHEAR CONNECTIONS" FROM THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. DESIGN END REACTION IS 60% OF TOTAL ALLOWABLE LOAD (60% x Wc) FROM THE ALLOWABLE LOAD OF BEAM TABLE FROM PART 9 - "DESIGN OF CONNECTING ELEMENTS" OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.

DEFERRED DESIGN SUBMITTALS:

1. THE FOLLOWING ITEMS ARE SPECIFIED AS PART OF A DELEGATED DESIGN AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
2. SHOP DRAWINGS AND/OR CALCULATIONS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE SEOR AND THE ARCHITECT.
   - 2.1. STRUCTURAL STEEL CONNECTIONS (THAT ARE NOT DETAILED)
   - 2.2. STEEL STAIRS/RAILING/GUARDRAILS
   - 2.3. PRE-ENGINEERED METAL BUILDING (PEMB)
   - 2.4. COLD-FORMED STEEL FRAMING (CFMF)
   - 2.5. COLD-FORMED STEEL TRUSSES

DELEGATED STEEL STAIR AND HANDRAIL DESIGN

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DESIGN OF THE PRE-FABRICATED STAIRS, LANDINGS, TREADS, AND HANDRAILS WITH AN APPROVED STEEL FABRICATOR. THE FABRICATOR SHALL DESIGN AND DETAIL ALL RELEVANT MEMBERS AND CONNECTIONS .
2. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND DRAWING CALCULATIONS PRIOR TO FABRICATION. THE CALCULATIONS SHALL BEAR THE SEAL OF REGISTERED PROFESSIONAL ENGINEER OF THE STATE OF PROJECT.

PRE-ENGINEERED METAL BUILDING (PEMB)

1. PRE-ENGINEERED METAL BUILDING FOOTING SIZES ARE BASED UPON ESTIMATED BASE PLATE REACTIONS. FOOTING SIZED MAY REQUIRE SMALL CHANGES ONCE THE FINAL METAL BUILDING BASE PLATE REACTIONS ARE PROVIDED. CONTRACTOR SHALL NOT FABRICATE REBAR OR CAST METAL BUILDING FOOTINGS UNTIL THE STRUCTURAL ENGINEER OF RECORD HAS APPROVED THE PRE-ENGINEERED METAL BUILDING BASE PLATE REACTIONS.
2. ANCHOR ROD DIAMETERS SHALL BE DESIGNED BY THE PRE-ENGINEERED METAL BUILDING DESIGNER. THE LENGTH OF THE HEADED ANCHOR RODS WILL BE SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD ONCE THE FINAL BASE PLATE REACTIONS ARE PROVIDED TO THE ENGINEER.
3. PRE-ENGINEERED METAL BUILDING BASE PLATES ARE SHOWN ON THE STRUCTURAL FOUNDATION DRAWINGS FOR SCHEMATIC PURPOSES ONLY AND ARE NOT INTENDED FOR FIELD LAYOUT OF THE METAL BUILDING ANCHOR RODS. METAL BUILDING ANCHOR RODS SHALL BE LOCATED BASED UPON DRAWINGS PROVIDED BY THE METAL BUILDING MANUFACTURER ONLY.
4. THE PEMB SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE RECOMMENDED DESIGN PRACTICES MANUAL OF THE METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA) AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE PRE-ENGINEERED METAL BUILDING SUPPLIER SHALL BE A MEMBER OF AISC-MB CLASS.
5. THE PEMB SUPPLIER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING ENVELOPE AND FOR ALL LATERAL BRACING FOR ALL COMBINATIONS OF LIVE, DEAD COLLATERAL AND WIND LOADS.
6. THE MINIMUM LIVE LOADS, COLLATERAL LOADS AND WIND LOADS TO BE USED IN DESIGN OF THE PEMB ARE LISTED BELOW.
7. THE PEMB SUPPLIER SHALL DESIGN THE METAL BUILDING COLUMNS FOR WIND BEAM REACTIONS NOTED ON THE PLANS. TYPICAL CONNECTION DETAIL IS WITHIN THESE DRAWINGS, BUT FINAL COORDINATION SHALL MADE ON THE SHOP DRAWINGS PRIOR TO FABRICATION.
8. THE PEMB SUPPLIER SHALL DESIGN BUILDING FOR ALL SPECIFICALLY IDENTIFIED COMPONENTS THAT ARE TO BE SUPPORTED BY THE PEMB. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL HVAC EQUIPMENT, PLUMBING COMPONENTS, ELECTRICAL EQUIPMENT, AUDIO/VISUAL EQUIPMENT, AND BASKETBALL GOALS.
9. SUBMIT SHOP DRAWINGS OF FRAMING PLANS AND DETAILS OF ALL COMPONENTS OF THE PEMB. THE SHOP DRAWINGS SHALL INDICATE THE COLUMN REACTIONS FOR ALL COMBINATIONS OF DEAD, LIVE, COLLATERAL AND WIND LOADS. SUBMIT DESIGN DRAWINGS AND CALCULATIONS BEARING THE REGISTERED PROFESSIONAL ENGINEER'S SEAL FROM THE STATE OF ALABAMA OF THE DESIGN ENGINEER.
10. ANCHOR RODS SHALL CONFORM TO ASTM A1557 GRADE 36.
11. DESIGN LOADS:
12. ROOF LIVE LOAD
    - 12.1. MEMBERS SUPPORTING 0-200 SQ. FT. ---------------------------- 20 PSF
    - 12.2. MEMBERS SUPPORTING 200-600 SQ. FT. ----------------------- 16 PSF
    - 12.3. MEMBERS SUPPORTING MORE THAN 600 SQ. FT. ---------- 12 PSF
    - 12.4. COLLATERAL METAL BUILDING ROOF LOAD ----------------- 6 PSF
13. DEFLECTION LIMIT -- H/360

PRE-ENGINEERED METAL ROOF TRUSSES

1. ALL PREFABRICATED METAL TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS, DEAD LOADS, AND CONCENTRATED LOADS. LATERAL BRACING (DIAGONAL AND LATERAL BRIDGING), BOTH TEMPORARY AND PERMANENT, SHALL BE DESIGNED, PROVIDED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER.TEMPORARY BRACING SHALL REMAIN UNTIL PERMANENT BRACING AND THE ROOF DECK ARE COMPLETELY INSTALLED.
2. PROVIDE EAVE BRACING DETAILS, ETC. AS REQUIRED TO INSURE PLUMB, LEVEL STRUCTURAL BASE FOR EAVE TRIM AND CORNICE. NO TWISTING OR WARPING OF TRUSS ENDS WILL BE ACCEPTED PRIOR TO INSTALLATION OF CORNICE AND TRIM.
3. ALL TRUSSES SHALL BE DESIGNED AND ANCHORED TO WITHSTAND THE NOTED WIND LOADS. THE ROOF TRUSSES SHALL BE DESIGNED AND ANCHORED FOR THE FOLLOWING LOADS:
   - 3.1. TOP CHORD LIVE LOAD ------------------------------- 20 PSF
   - 3.2. TOP CHORD DEAD LOAD ----------------------------- 10 PSF
   - 3.3. BOTTOM CHORD LIVE LOAD ------------------------ 0
   - 3.4. BOTTOM CHORD DEAD LOAD ---------------------- 10 PSF
   - 3.5. VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT/ENGINEER OF ANY REQUIRED MODIFICATIONS.
4. SUBMIT DESIGN DRAWINGS AND CALCULATIONS BEARING THE REGISTERED PROFESSIONAL ENGINEER'S SEAL OF THE DESIGN ENGINEER.

STEEL DECK:

1. TYPICAL ROOF DECK
   - 1.1. STEEL ROOF DECK SHALL BE 22 GAUGE, TYPE "B" (WIDE RIB) CORRUGATED DECK WHERE INDICATED ON THE ROOF PLAN, WITH THE FOLLOWING MINIMUM PROPERTIES:
     - 1.1.1. MOMENT OF INERTIA, POSITIVE (Ip): 0.155 in^4/ft
     - 1.1.2. MOMENT OF INERTIA, NEGATIVE (In): 0.183 in^4/ft
     - 1.1.3. SECTION MODULUS, POSITIVE (Sp): 0.186 in^3/ft
     - 1.1.4. SECTION MODULUS, NEGATIVE (Sn): 0.192 in^3/ft
   - 1.2. THE ROOF DECK SHALL BE INSTALLED AND ANCHORED TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND/OR AS INDICATED IN FASTENING PATTERN SCHEDULE ON THESE DRAWINGS (WHICHEVER IS MORE STRINGENT).
2. CONCRETE FORM FLOOR DECK
   - 2.1. STEEL FORM DECK SHALL BE 2.0VLI20 CORRUGATED COMPOSITE DECK WHERE INDICATED ON THE PLANS WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
     - 2.1.1. MOMENT OF INERTIA, POSITIVE (Ip): 0.409 in^4/ft
     - 2.1.2. MOMENT OF INERTIA, NEGATIVE (In): 0.406 in^4/ft
     - 2.1.3. SECTION MODULUS, POSITIVE (Sp): 0.341 in^3/ft
     - 2.1.4. SECTION MODULUS, NEGATIVE (Sn): 0.346 in^3/ft
   - 2.2. CONCRETE SHALL BE REINFORCED AND POURED TO THICKNESS AS INDICATED ON STRUCTURAL PLANS.
   - 2.3. THE FORM DECK SHALL BE INSTALLED AND ANCHORED TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND/OR AS INDICATED IN FASTENING PATTERN SCHEDULE ON THESE DRAWINGS (WHICHEVER IS MORE STRINGENT).

SHEATHING

1. WALL SHEATHING SHALL BE 15/32" INCH WOOD STRUCTURAL PANELS. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS FOR THE GIVEN EXPOSURE AND WIND SPEED OR AS INDICATED IN THESE DRAWINGS, WHICHEVER IS MORE STRINGENT. NOTE NAILING PATTERNS AT SHEAR WALLS. THE STRUCTURAL SHEATHING SHALL BE FOR THE FULL WALL HEIGHT, AND WHERE OPENINGS OCCUR, THE WALL SHALL BE ENTIRELY SHEATHED INCLUDING AREAS ABOVE AND BELOW THE OPENINGS. FOR TWO OR MORE STORIES, SHEATHING SHALL BE CONTINUOUS FOR 1'-0" ABOVE AN BELOW THE FLOOR PLATE.

COLD-FORM METAL FRAMING

1. CFMF SHALL BE DESIGNED ACCORDING TO THE AMERICAN IRON AND STEEL INSTITUTE (AISI) S100 (LATEST EDITION).
2. ALL STRUCTURAL LOADBEARING MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH Fy = 40 KSI FOR S STUDS GRADE A, 33 KSI FOR T TRACK. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING REQUIREMENTS FOR ASTM A525.
3. MEMBERS SHALL BE INSTALLED LEVEL AND TRUE IN A WORKMANLIKE MANNER. INSTALL STRAPPING AND ACCESSORIES AS DETAILED AND AS REQUIRED FOR PROPER INSTALLATION.
4. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE MANUFACTURER SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS.

DESIGN LOADS AND PARAMETERS:

1. LIVE LOADS:
   - 1.1. ROOF --- 20 PSF (REDUCIBLE)
   - 1.2. TYPICAL FLOOR -- 40 PSF
   - 1.3. CLASSROOMS -- 40 PSF
   - 1.4. OFFICE -- 50 PSF
   - 1.5. GYMNASIUM --- 150 PSF
   - 1.6. LOBBIES --- 100 PSF
   - 1.7. FIRST FLOOR CORRIDOR -- 100 PSF
2. DEAD LOADS
   - 2.1. ROOF--- PEMB
   - 2.2. CEILING --- 6 PSF
3. SNOW LOAD -- 5 PSF
4. WIND PARAMETERS:
   - 4.1. DESIGN CODE --- ASCE 7-16
   - 4.2. DESIGN WIND SPEED (ULT. 3 SEC GUST) -------------------------- 113 MPH
   - 4.3. OCCUPANCY CATEGORY -- III
   - 4.4. WIND EXPOSURE CATEGORY -- B
   - 4.5. INTERNAL PRESSURE COEFFICIENTS ------------------------------- +/- 0.18
5. SEISMIC PARAMETERS:
   - 5.1. SEISMIC USE GROUP -- III
   - 5.2. SEISMIC IMPORTANCE FACTOR (Ie)-------------------------------------1.25
   - 5.4. SITE CLASS--- C
   - 5.8. SEISMIC DESIGN CATEGORY -- B
   - 5.9. MAPPED SPECTRAL RESPONSE ACCELERATION:
     - 5.9.1. Ss --- 0.264
     - 5.9.2. S1 --- 0.101
   - 5.10. SPECTRAL RESPONSE COEFFICIENTS:
     - 5.10.1. Sds --- 0.228
     - 5.10.2. Sd1 --- 0.101

APPLICABLE CODES

UNLESS OTHERWISE NOTED OR SPECIFIED, ALL CONSTRUCTION SHALL CONFIRM TO THE FOLLOWING CODES (LATEST EDITION UNLESS NOTED OTHERWISE):

IBC 2021	INTERNATIONAL BUILDING CODE
ASCE 7-16	MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
ASCE 24	FLOOD RESISTANT DESIGN AND CONSTRUCTION ()
ACI 318	AMERICAN CONCRETE INSTITUTE
AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI S100	NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AISI S202	CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL MEMBERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS (AS SPECIFIED IN CODES)
AWS D1.1	AMERICAN WELDING SOCIETY
SDPWS	SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC
AWC NDS	NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
ICC 500	STANDARD ON THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
SDI-NC	STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK
SDI-RD	STANDARD FOR STEEL ROOF DECK
SDI-C	STANDARD COMPOSITE STEEL FLOOR DECK
SDI-QA/QC	STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK
SJI 100	STANDARD SPECIFICATION LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS,K-SERIES, LH-SERIES, DHL-SERIES, AND JOIST GIRDERS
TMS 402	BUILDING CODE FOR MASONRY STRUCTURES
TMS 602	SPECIFICATION FOR MASONRY STRUCTURES
TPI 1	NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION
WRI/CRSI	DESIGN OF SLAB-ON-GROUND FOUNDATIONS - WITH 1996 UPDATE
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION STANDARDS

SPREAD FOOTING SCHEDULE

MARK	SIZE	REINF. EA. WAY
SF-2	2'-0"x2'-0"x1'-0"	3-#4
SF-2.5	2'-6"x2'-6"x1'-0"	3-#5
SF-3	3'-0"x3'-0"x1'-0"	3-#5
SF-3.5	3'-6"x3'-6"x1'-0"	4-#5
SF-4	4'-0"x4'-0"x1'-0"	4-#5
SF-4.5	4'-6"x4'-6"x1'-2"	5-#6
SF-5	5'-0"x5'-0"x1'-2"	5-#6
SF-5.5	5'-6"x5'-6"x1'-2"	6-#6
SF-6	6'-0"x6'-0"x1'-2"	6-#6
SF-6.5	6'-6"x6'-6"x1'-4"	7-#6
SF-7	7'-0"x7'-0"x1'-4"	7-#7
SF-7.5	7'-6"x7'-6"x1-4"	7-#7
SF-8	8'-0"x8'-0"x1'-4"	8-#7
SF-8.5	8'-6"x8'-6"x1'-4"	8-#7
SF-9	9'-0"x9'-0"x1'-6"	9-#8
SF-9.5	9'-6"x9'-6"x1'-6"	9-#8
SF-10	10'-0"x10'-0"x1'-6"	10-#8
SF-10.5	10'-6"x10'-6"x1'-6"	10-#8
SF-11	11'-0"x11'-0"x1'-8"	11-#8
SF-11.5	11'-6"x11'-6"x1'-8"	11-#8
SF-12	12'-0"x12'-0"x2'-0"	12-#8

SPREAD FOOTING NOTES:

1. NOT ALL FOOTINGS ARE NECESSARILY USED
2. FOOTINGS HAVE BEEN SIZED FOR AN ASSUMED BEARING CAPACITY AS LISTED IN THE GENERAL NOTES OF THIS DOCUMENT. SEE GENERAL NOTES FOR ALL DESIGN REQUIREMENTS AND ASSUMPTIONS

CMU WALL REINFORCEMENT SCHEDULE

MARK	LOCATION	SIZE	MAX HT.	VERT. REINF.	BOND BEAM	GROUT
W-1	EXTERIOR / INTERIOR	8" CMU	12'-0"	#5 @ 48" O.C.	TOP OF WALL ONLY	AT REINF. ONLY
W-2	STAIR / HIGH ROOF	8" CMU	20'-0"	#5 @ 24" O.C.	BOND BEAM @ 8'-0", 16'-0", T/ WALL	FILL ALL CELLS AT STAIR WALLS. ALL OTHER WALLS GROUT AT REINF. ONLY (1)
W-3	INTERIOR PARTITION	8" CMU	12'-0"	#4@ 48" O.C.	TOP OF WALL ONLY	AT REINF. ONLY

WALL SCHEDULE NOTES:

1. WHERE WALLS OCCUR AND ARE NOT CALLED OUT ON THE PLAN, USE APPLICABLE SCHEDULE REINFORCEMENT. NOTIFY STRUCTURAL ENGINEER IF CONDITIONS EXIST THAT ARE OUTSIDE THE PARAMETERS OF THE SCHEDULE.
2. PROVIDE FOUNDATION STARTER DOWEL SAME SIZE AS VERTICAL BAR @ EA. VERTICAL BAR. LAP AS INDICATED IN SCHEDULE
3. PROVIDE CORNER REINFORCEMENT AS INDICATED IN TYPICAL CMU DETAILS.
4. PROVIDE VERTICAL BAR AT EA. DOOR AND WINDOW JAMB AS INDICATED IN TYPICAL CMU DETAILS.
5. PROVIDE VERTICAL BAR EA. SIDE OF MASONRY CONTROL JOINT (MCJ) AS INDICATED IN TYPICAL CMU DETAILS

8" CMU REINFORCEMENT LAP SPLICE SCHEDULE

MASONRY STRENGTH (f'm) (PSI)	BAR SIZE (#)	DEVELOPMENT/ LAP LENGTH (FT.-IN.)	NOTES
2500	3	1'-6"	REINFORCEMENT TO BE CENTERED IN CELL UNLESS OTHERWISE NOTED
	4	2'-0"	
	5	2'-6"	
	6	3'-4"	

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE

BAR SIZE (#)	SPLICE TYPE	3000 PSI TOP BAR (IN.)	3000 PSI OTHER BAR (IN.)	4000 PSI TOP BAR (IN.)	4000 PSI OTHER BAR (IN.)	5000 PSI TOP BAR (IN.)	5000 PSI OTHER BAR (IN.)
3	DEVELOPMENT LENGTH	21	16	18	14	17	13
	CLASS B LAP SPLICE	28	21	24	18	22	17
4	DEVELOPMENT LENGTH	28	22	25	19	22	17
	CLASS B LAP SPLICE	37	28	32	25	29	22
5	DEVELOPMENT LENGTH	36	27	31	24	28	21
	CLASS B LAP SPLICE	46	36	40	31	36	28
6	DEVELOPMENT LENGTH	43	33	37	28	33	25
	CLASS B LAP SPLICE	56	43	48	37	43	33
7	DEVELOPMENT LENGTH	62	48	54	42	48	37
	CLASS B LAP SPLICE	81	62	70	54	63	48
8	DEVELOPMENT LENGTH	71	55	62	47	55	42
	CLASS B LAP SPLICE	93	71	80	62	72	55
9	DEVELOPMENT LENGTH	80	62	70	54	62	48
	CLASS B LAP SPLICE	104	80	90	70	81	62
10	DEVELOPMENT LENGTH	90	70	78	60	70	54
	CLASS B LAP SPLICE	118	90	102	78	91	70
11	DEVELOPMENT LENGTH	100	77	87	67	78	60
	CLASS B LAP SPLICE	131	100	113	87	101	78

REINFORCEMENT LAP SPICE NOTES

1. "TOP BAR" INDICATES MORE THAN 12" OF FRESH CONCRETE PLACED BELOW SPICE (ψ_t = 1.3)
2. "OTHER BAR" INDICATES BAR WITH LESS THAN 12" OF FRESH CONCRETE PLACED BELOW SPLICE (ψ_t = 1.0)
3. LAP SCHEDULE ASSUMES NORMAL WEIGHT CONCRETE (λ = 1.0)
4. LAP SCHEDULE ASSUMES UNCOATED BARS (ψ_e = 1.0)
5. SPACING / CLEAR COVER REQUIREMENTS:
   - 5.1. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER NOT LESS THAN ONE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT LAP SPLICE NOT LESS THAN CODE MINIMUM.
   - (OR)
   - 5.2. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN 2 BAR DIAMETERS AND CONCRETE COVER NOT LESS THAN BAR DIAMETER.
6. NOTIFY ENGINEER OF RECORD IF CONDITIONS/ASSUMPTIONS ABOVE ARE NOT MET.

DEVELOPMENT LENGTH OF STD. 90° HOOK

BAR SIZE (#)	f'c	3000 PSI	4000 PSI	5000 PSI
		LENGTH [L dh] (IN.)		
3		6	5	5
4		8	7	6
5		10	9	8
6		12	10	9
7		14	12	11
8		15	14	12
9		17	15	14
10		20	17	16
11		22	19	17

REINFORCEMENT HOOK NOTES

1. HOOK LENGTH ASSUMES NORMAL WEIGHT CONCRETE (λ = 1.0)
2. HOOK LENGTH ASSUMES UNCOATED BARS (ψ_e = 1.0)
3. HOOK LENGTH ASSUMES SIDE COVER (NORMAL TO PLANE OF HOOK >=2.5" AND FOR 90° HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK >=2" (ψ_e = 0.7)
4. HOOK LENGTH ASSUMES NO CONFINEMENT REINFORCEMENT (ψ_e = 1.0)

STD. 90° HOOK LENGTH

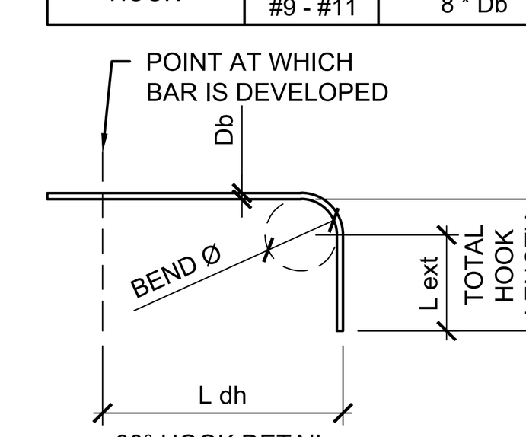
BAR SIZE (#)	TOTAL HOOK LENGTH (IN.)
3	6
4	8
5	10
6	12
7	14
8	15
9	18
10	20
11	22

STD. 180° HOOK LENGTH

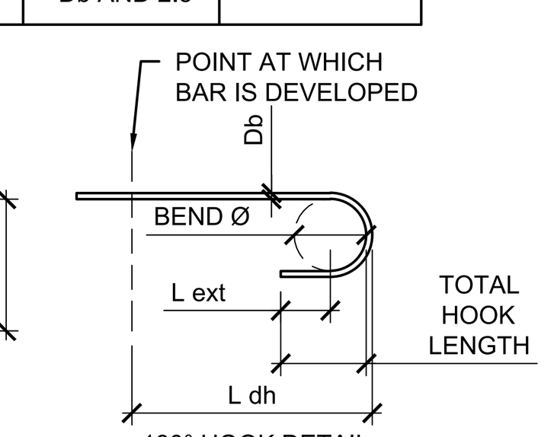
BAR SIZE (#)	TOTAL HOOK LENGTH (IN.)
3	4
4	4
5	5
6	6
7	7
8	7
9	9
10	10
11	11

STD. HOOK GEOMETRY

TYPE OF STANDARD HOOK	BAR SIZE (#)	MINIMUM INSIDE BEND DIAMETER	STRAIGHT EXTENSION (IN.)	TYPE OF STANDARD HOOK
90 DEGREE HOOK	#3 - #8	6 * Db	12 * Db	90° DETAIL
	#9 - #11	8 * Db		
180 DEGREE HOOK	#3 - #8	6 * Db	GREATER OF 4 * Db AND 2.5"	180° DETAIL
	#9 - #11	8 * Db		



90° HOOK DETAIL



180° HOOK DETAIL

STANDARD ABBREVIATIONS AND SYMBOLS

#L-#	CMU WALL WIDTH + LINTEL #
&	AND
Ø	DIAMETER
°	DEGREE
A.F.F.	ABOVE FINISH FLOOR
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ALT	ALTERNATE
ARCH	ARCHITECTURAL / ARCHITECT
B/	BOTTOM OF
BL-#	BRICK LINTEL
BOT	BOTTOM
BP-#	BASE PLATE-#
BRNG	BEARING
BW	BOTH WAYS
C-C	CENTER TO CENTER
A.J.	SAW CUT CONTROL JOINT
CB-#	CONCRETE BEAM-#
CC-#	CONCRETE COLUMN-#
CFMF	COLD FORM METAL FRAMING
CIP	CAST IN PLACE
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COORD.	COORDINATE
DEMO	DEMOLISH
DET.	DETAIL
DL	DEAD LOAD
DWGS	DRAWINGS
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.S.	EDGE OF SLAB
EA.	EACH
EF	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
EW	EACH WAY
EXIST.	EXISTING
EXT	EXTERIOR
F.C.J.	FORMED CONSTRUCTION JOINT
F.F.E.	FINISH FLOOR ELEVATION OF STRUCTURE (T/ PLYWOOD OR TOP OF CONCRETE)
F.D.	FLOOR DRAIN
F.V.	FIELD VERIFY
FDN	FOUNDATION
FLR	FLOOR
FS	FAR SIDE
FT.	(') FEET
FTG.	FOOTING
GALV	GALVANIZED
GT-#	GIRDER TRUSS
H-#	HEADER-#
HSS	HOLLOW STEEL SHAPE
I.D.	INSIDE DIAMETER
I.S.F	INSIDE FACE
IN.	(") INCH
K	KIP (1000 POUNDS)
LB.	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, & PLUMBING
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NS	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON-CENTER
O.D.	OUTSIDE DIAMETER
O.S.A.	OUTSIDE FACE
OPP. HAND	CONDITION IS A MIRROR IMAGE OF CONDITION SHOWN IN SECTION/DETAIL
P.E.J.	PRE-FORMED EXPANSION JOINT
P.T.	POST TENSION (CONCRETE)
PT	PRESSURE TREATED (LUMBER)
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
REINF	REINFORCEMENT
REQ'D	REQUIRED
REV.	REVISED
RO	ROUGH OPENING
S#	STUD PACKAGE-# OF STUDS
SCH.	SCHEDULE
SEOR	STRUCTURAL ENGINEER OF RECORD
SF-#	SPREAD FOOTING-#
SHT	SHEET
SIM.	SIMILAR TO INDICATED CONDITION W/ ONLY MINOR VARIATION
SOG	SLAB ON GRADE
SSL	SHORT SLOTTED HOLE
STD.	STANDARD
SW-#	SHEAR WALL-#
SYM	SYMMETRICAL
T-#	TRUSS
T&B	TOP & BOTTOM
T.O.B.	TOP OF BEAM
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
THRU	THROUGH
TRANS.	TRANSVERSE
TYP.	CONDITION TYPICAL THROUGHOUT PLAN, SECTION, OR DETAIL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W-#	WALL #
W.W.F	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WB	WOOD BEAM
WF	WIDE FLANGE STEEL BEAM
WT.	WEIGHT

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ALABAMA LICENSED No. 38070 PROFESSIONAL ENGINEER TIMOTHY N. SANFORD 10.2.24

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

SHEET TITLE : GENERAL NOTES AND PROJECT DATA

MCKEE JOB # : 24-169

DRAWN BY : TNS

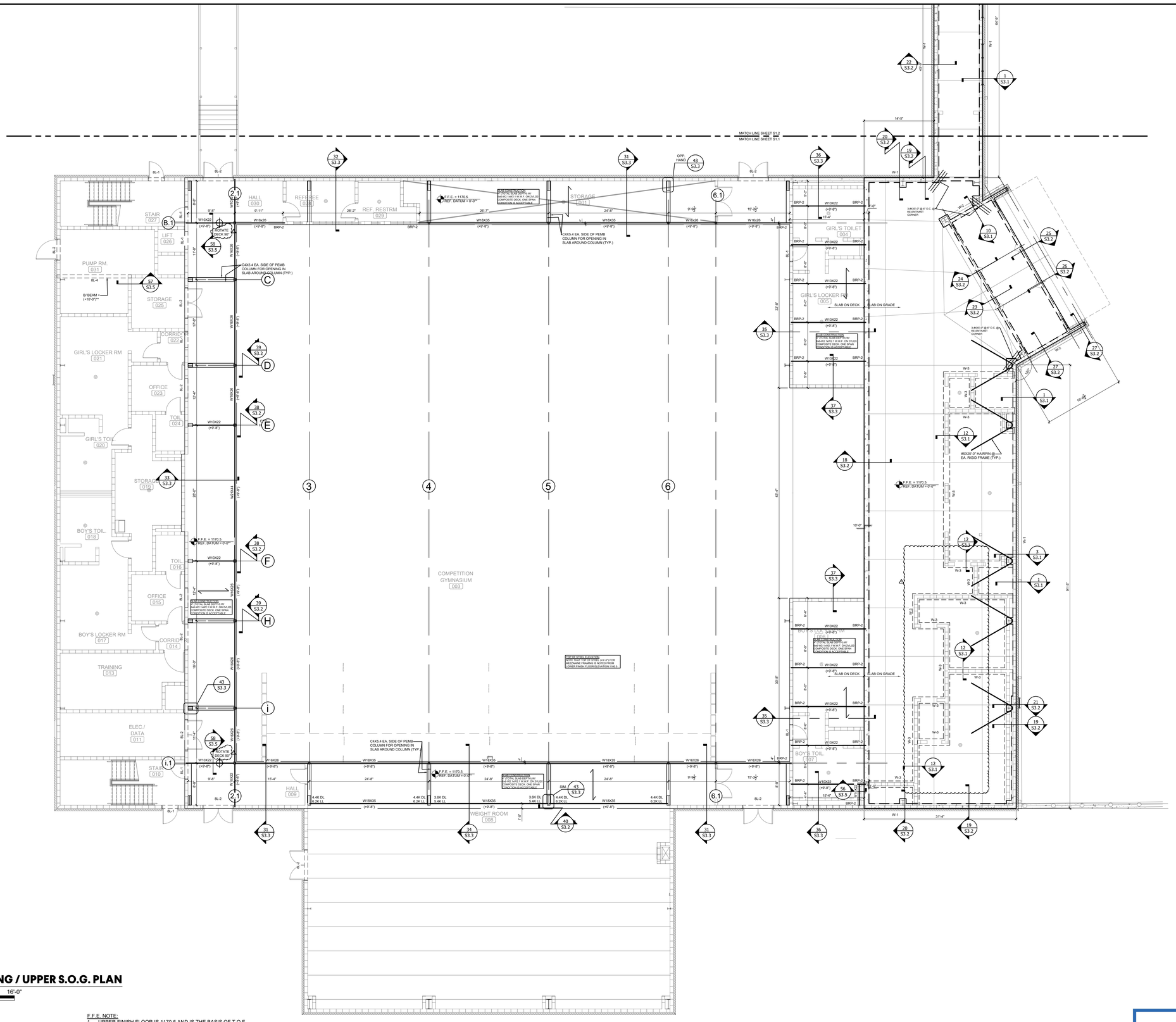
DATE: 9.18.2024

REVISED DATE: (1) 10.2.24

REVISED DATE:

REVISED DATE:

SHEET NO. : S0.1



MEZZANINE FRAMING / UPPER S.O.G. PLAN

1 / S1.3

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
4. [X.X KIP] INDICATES BEAM REACTION TO METAL BUILDING FRAME.

F.F.E. NOTE:
1. UPPER FINISH FLOOR IS 1170.5 AND IS THE BASIS OF T.O.F. ELEVATIONS. ALL T.O.S. ELEVATIONS CALLED OUT WITH SINGLE ASTERISK (*) ARE REFERENCED FROM UPPER LEVEL
2. LOWER FINISH FLOOR IS 1160.5. ALL T.O.S. ELEVATIONS CALLED OUT WITH DOUBLE ASTERISK (**) ARE REFERENCED FROM LOWER FINISH FLOOR

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SHEET TITLE : MEZZANINE FRAMING AND S.O.G. PLAN

MCKEE JOB # : 24-169

DRAWN BY : TNS

DATE: 9.18.2024

REVISED DATE: 1 10.2.24

REVISED DATE:

REVISED DATE:

SHEET NO. : S1.3

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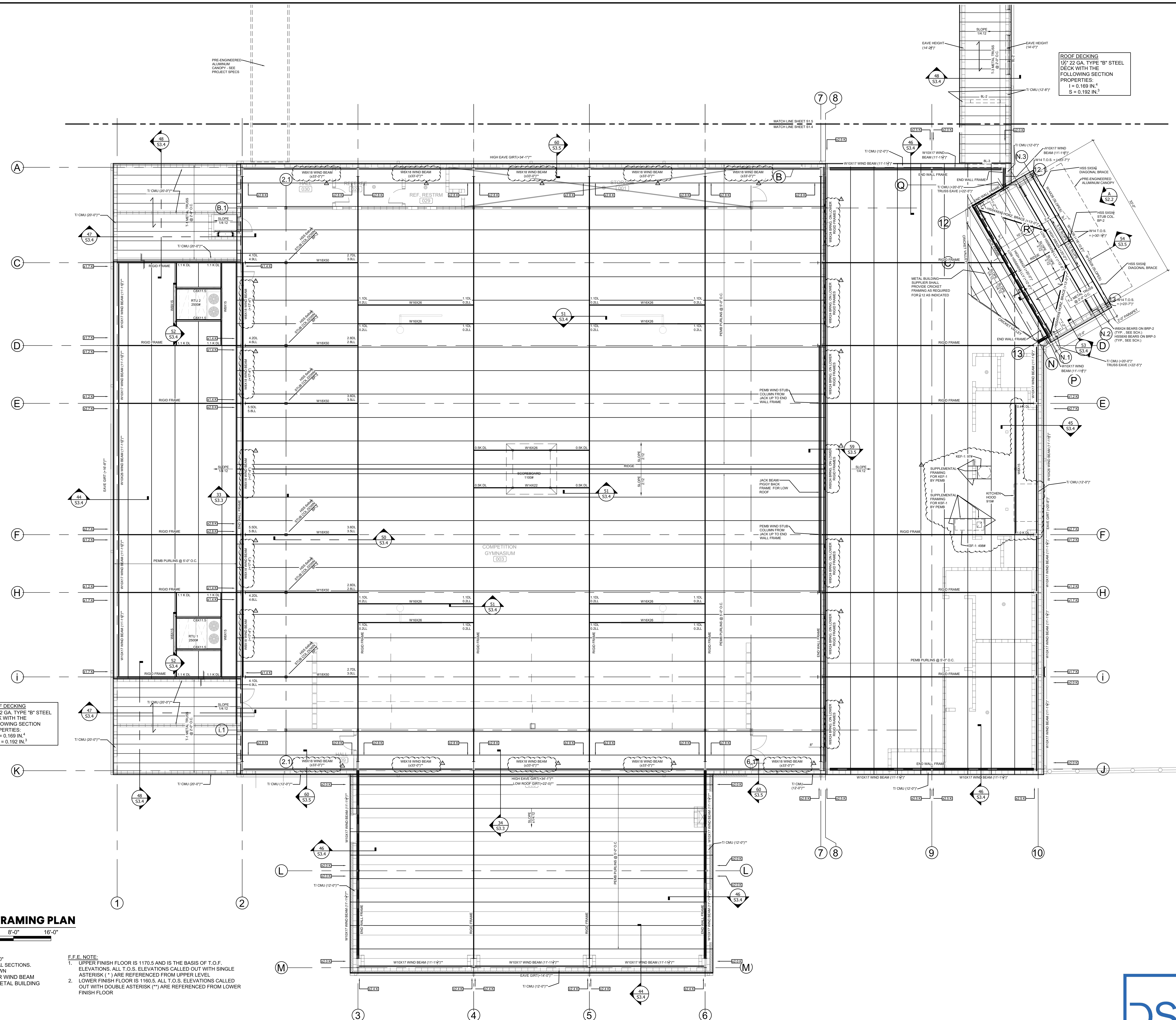

ROOF DECKING
1½" 22 GA. TYPE "B" STEEL DECK WITH THE FOLLOWING SECTION PROPERTIES:
I = 0.169 IN.^{4}
S = 0.192 IN.^{3}

ROOF DECKING
1½" 22 GA. TYPE "B" STEEL DECK WITH THE FOLLOWING SECTION PROPERTIES:
I = 0.169 IN.^{4}
S = 0.192 IN.^{3}

1 / S1.4 GYM ROOF FRAMING PLAN

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
4. [X.X KIP] INDICATES BEAM (VERTICAL) OR WIND BEAM (HORIZONTAL) SERVICE REACTION TO METAL BUILDING FRAME.

F.F.E. NOTE:
1. UPPER FINISH FLOOR IS 1170.5 AND IS THE BASIS OF T.O.F. ELEVATIONS. ALL T.O.S. ELEVATIONS CALLED OUT WITH SINGLE ASTERISK (*) ARE REFERENCED FROM UPPER LEVEL
2. LOWER FINISH FLOOR IS 1160.5. ALL T.O.S. ELEVATIONS CALLED OUT WITH DOUBLE ASTERISK (**) ARE REFERENCED FROM LOWER FINISH FLOOR

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SHEET TITLE : ROOF FRAMING PLAN

MCKEE JOB # : 24-169

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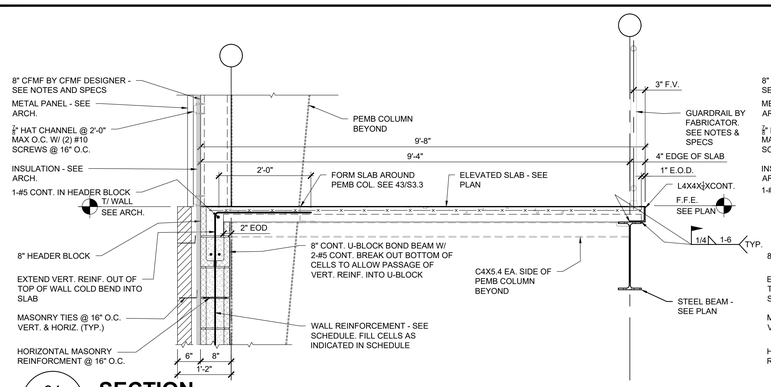
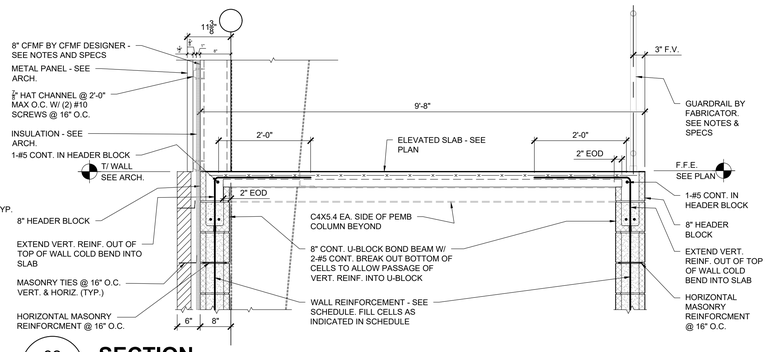
SHEET NO. : S1.4



31 **SECTION**
S3.3 SCALE: 3/4" = 1'-0"



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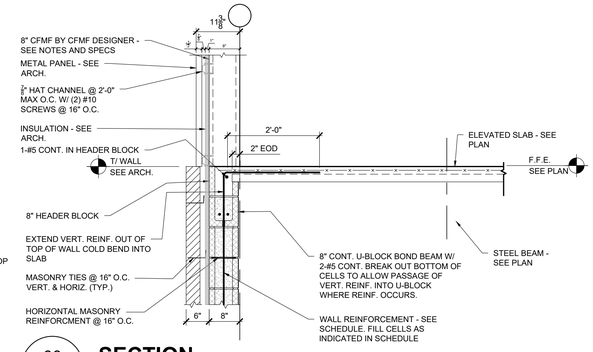

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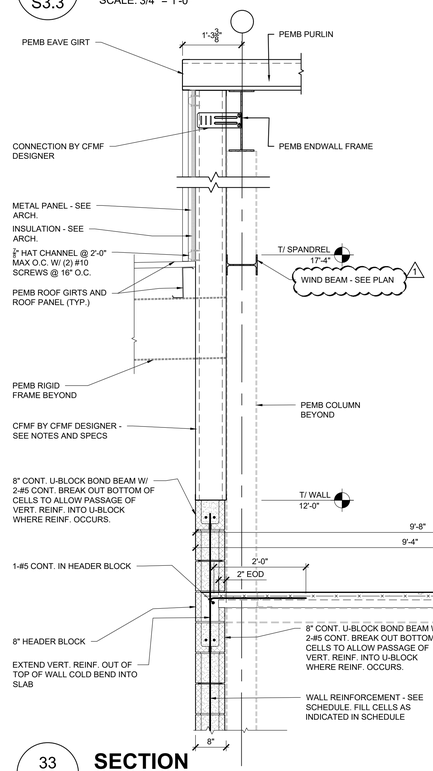

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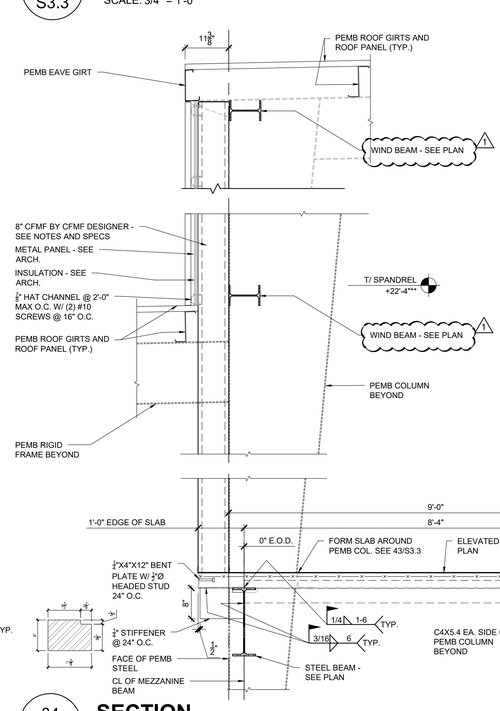

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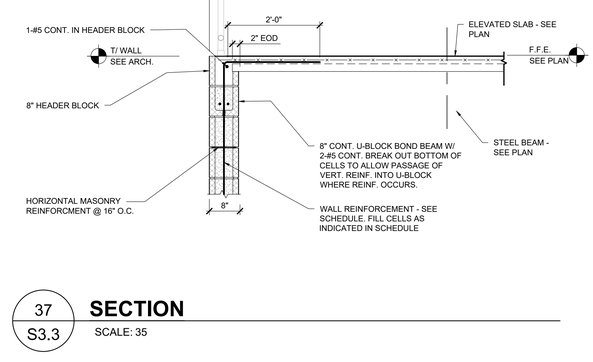

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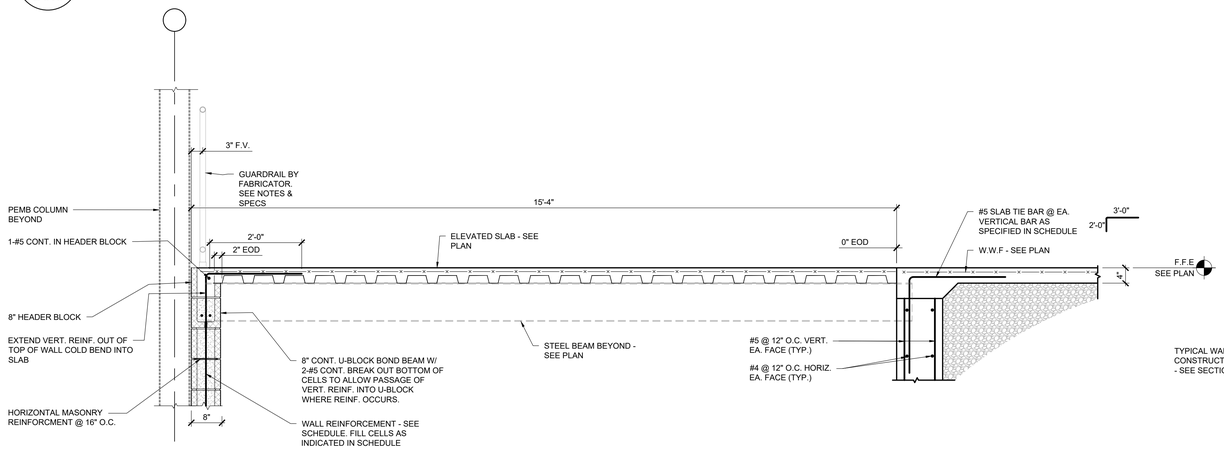

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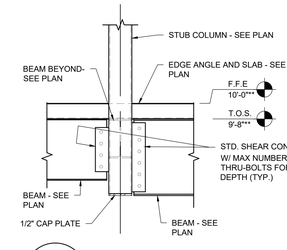
S3.3 SCALE: 35



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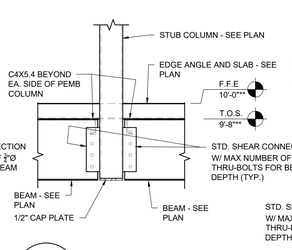

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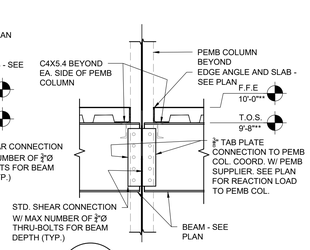

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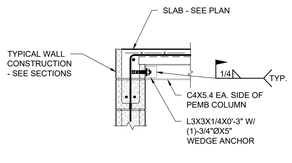

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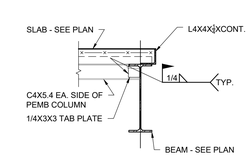

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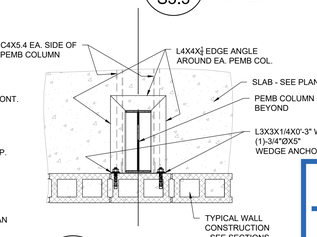

43 **SECTION**
S3.3 SCALE: 35

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SHEET TITLE : SECTIONS

MCKEE JOB # : 24-169

DRAWN BY : TNS

DATE: 9.18.2024

REVISED DATE: 1 10.2.24

REVISED DATE:

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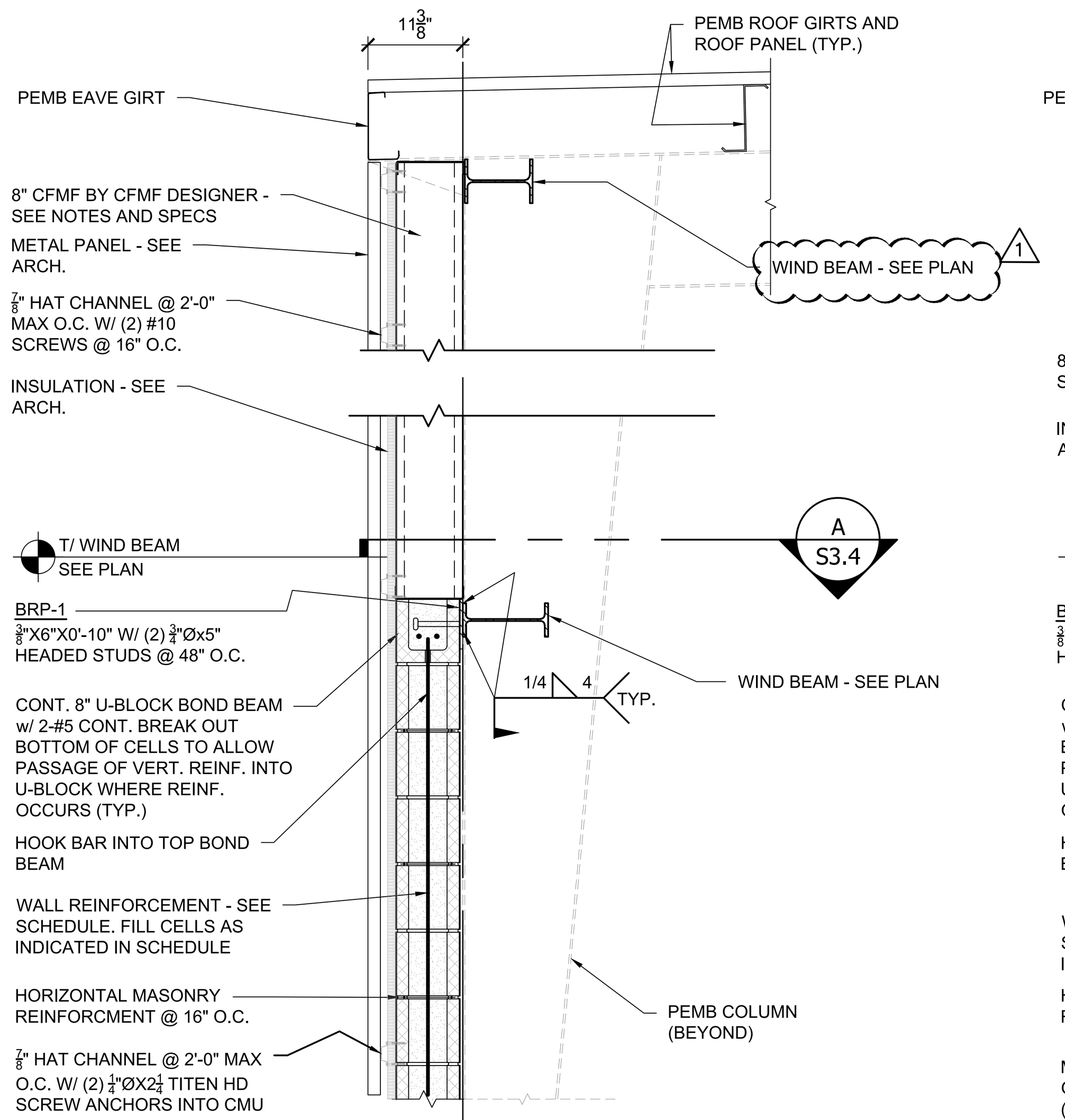
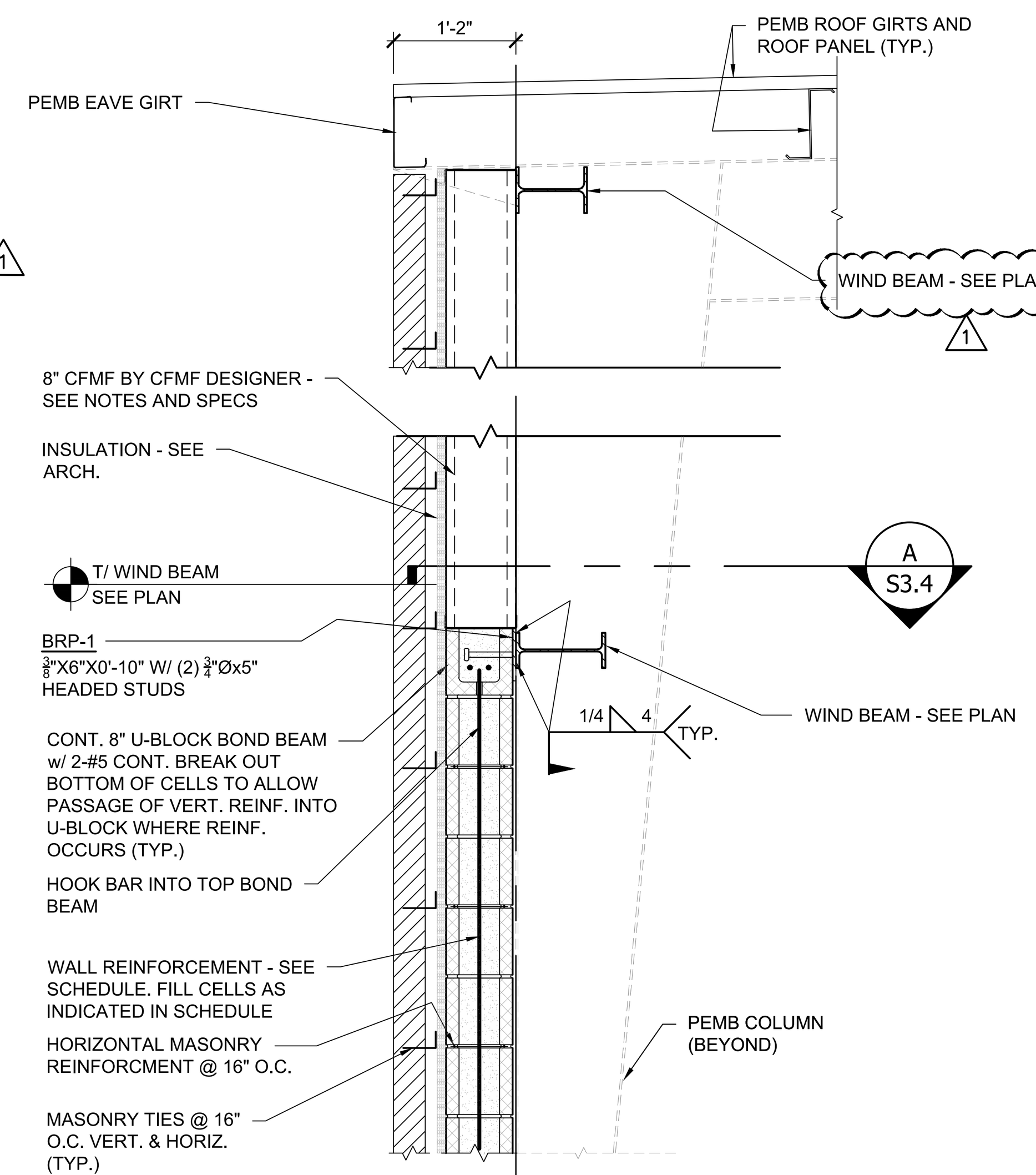
SHEET NO. : S3.3



44 **SECTION**
S3.4 SCALE: 3/4" = 1'-0"



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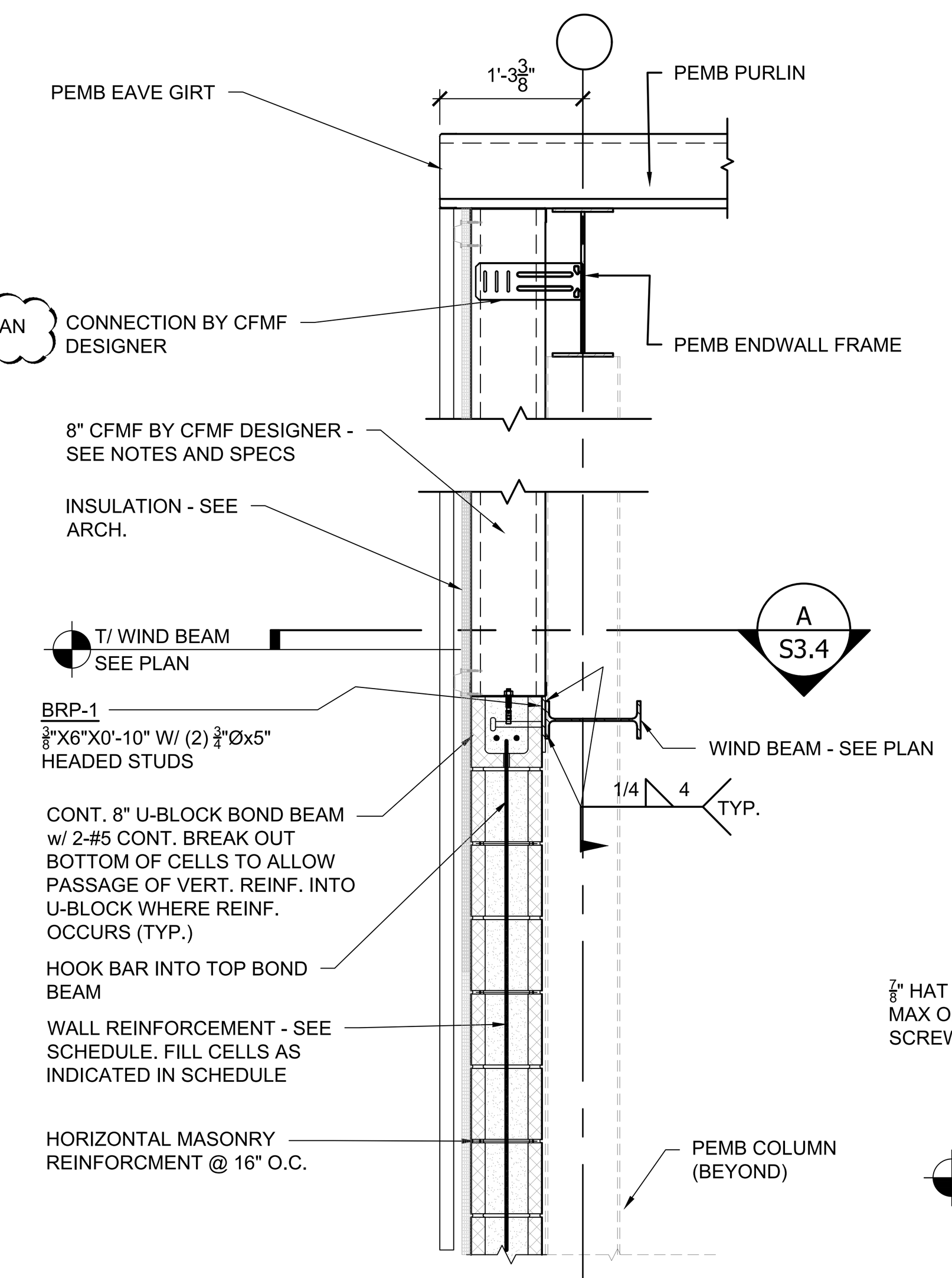

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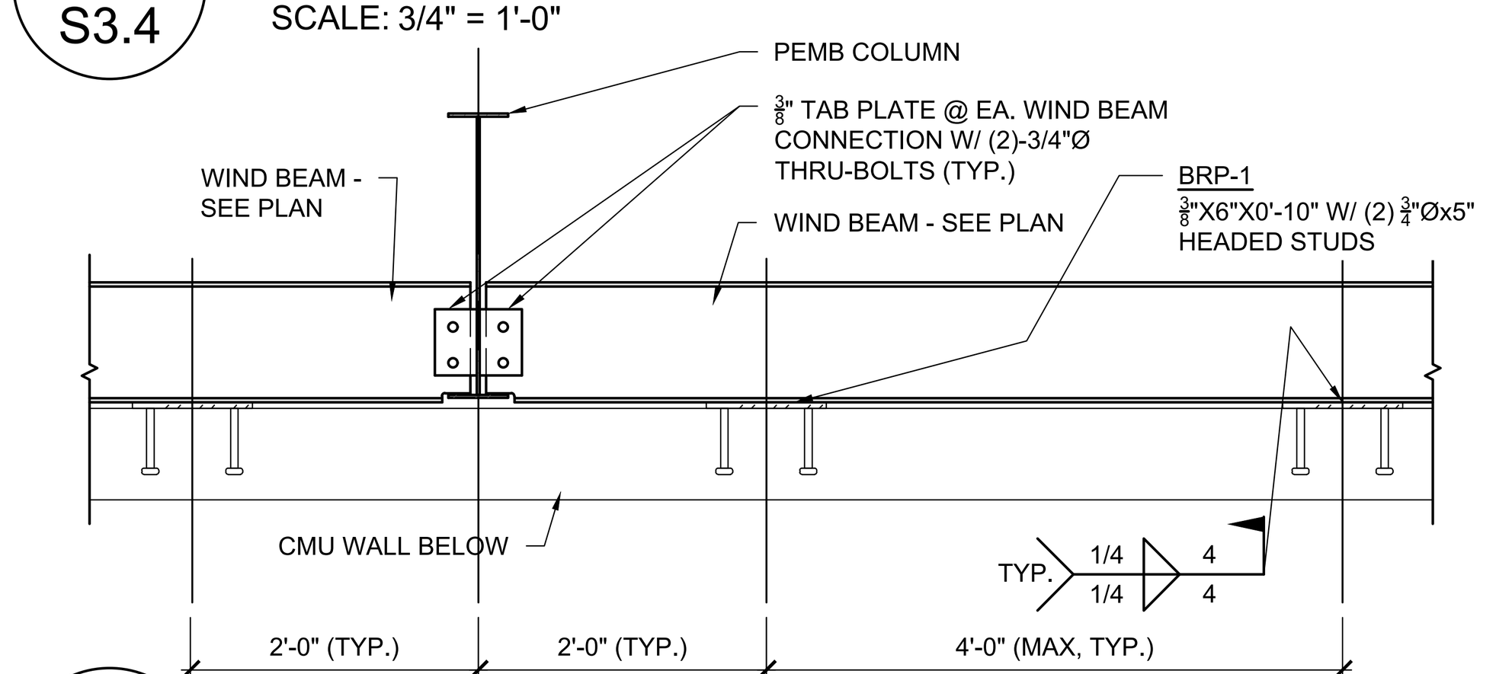
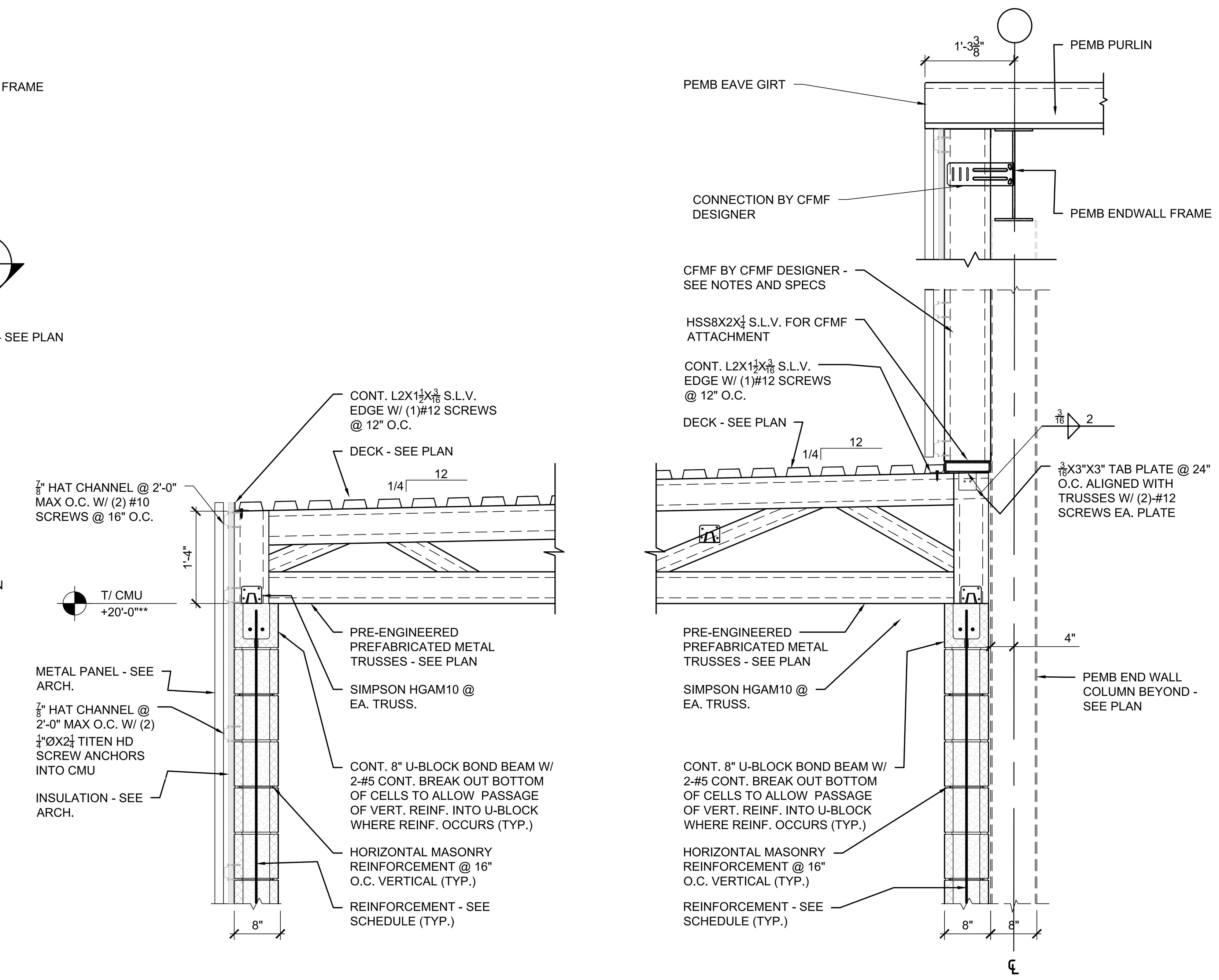


A **SECTION**
S3.4 SCALE: 3/4" = 1'-0"



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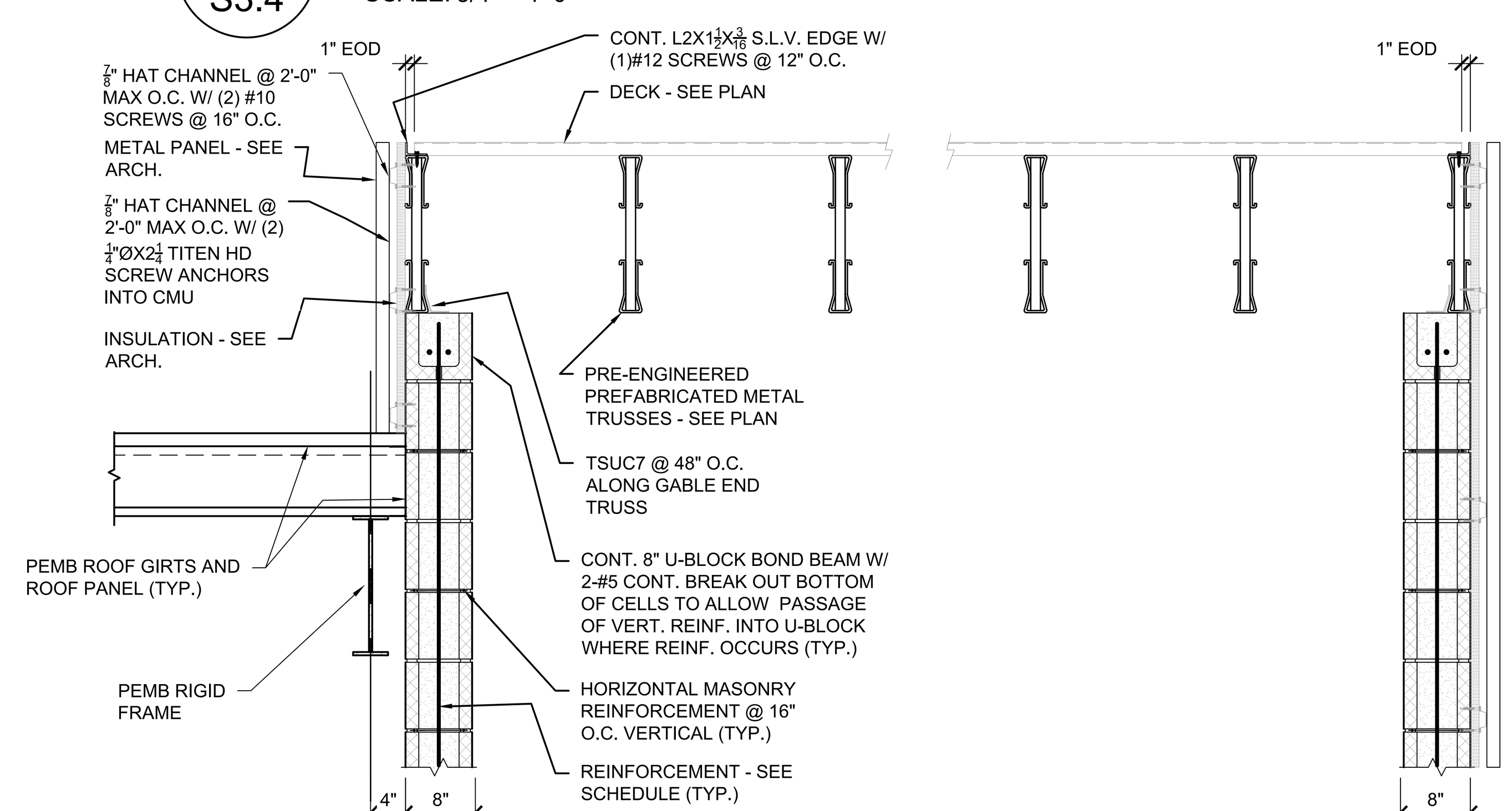

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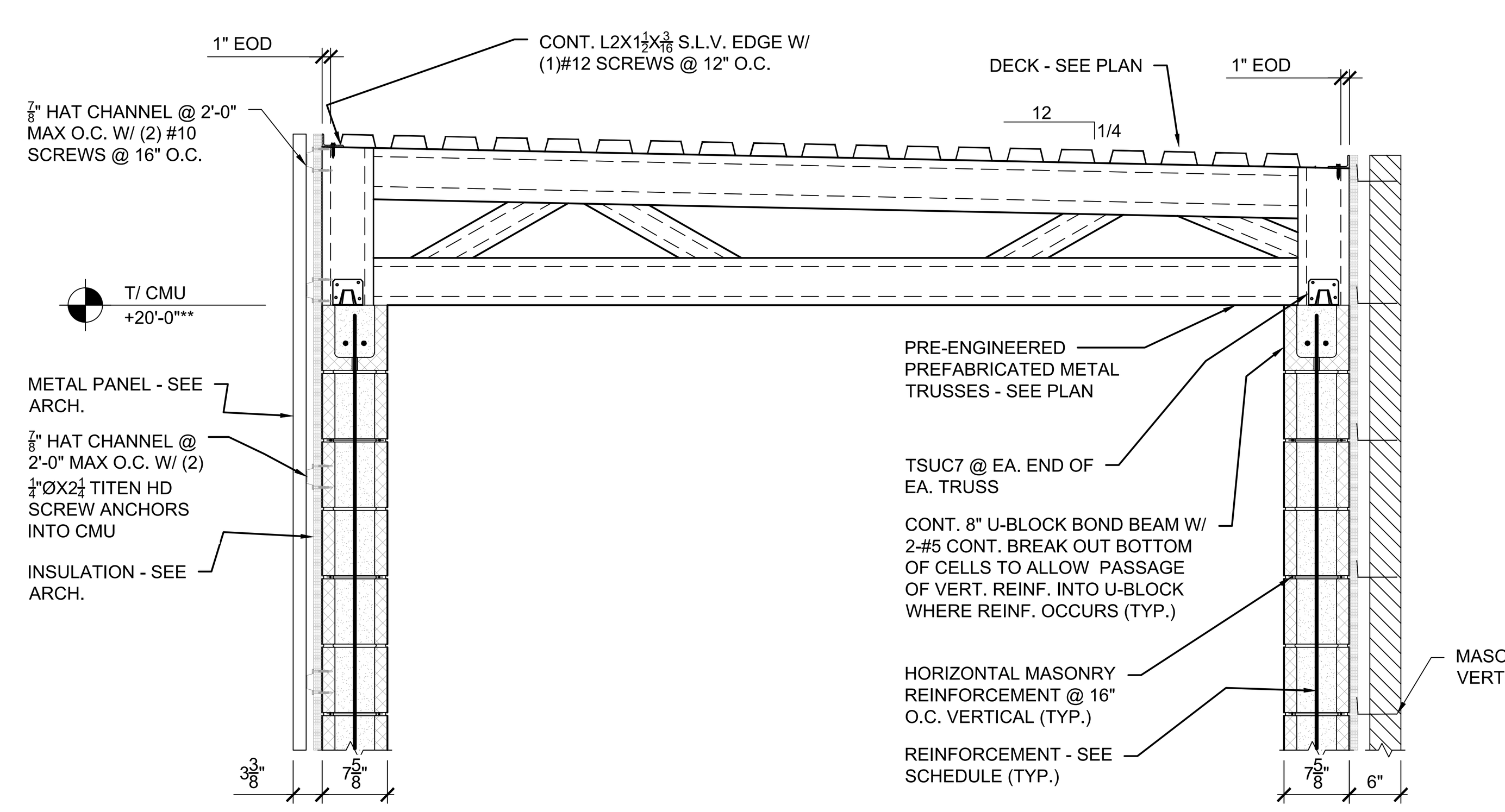
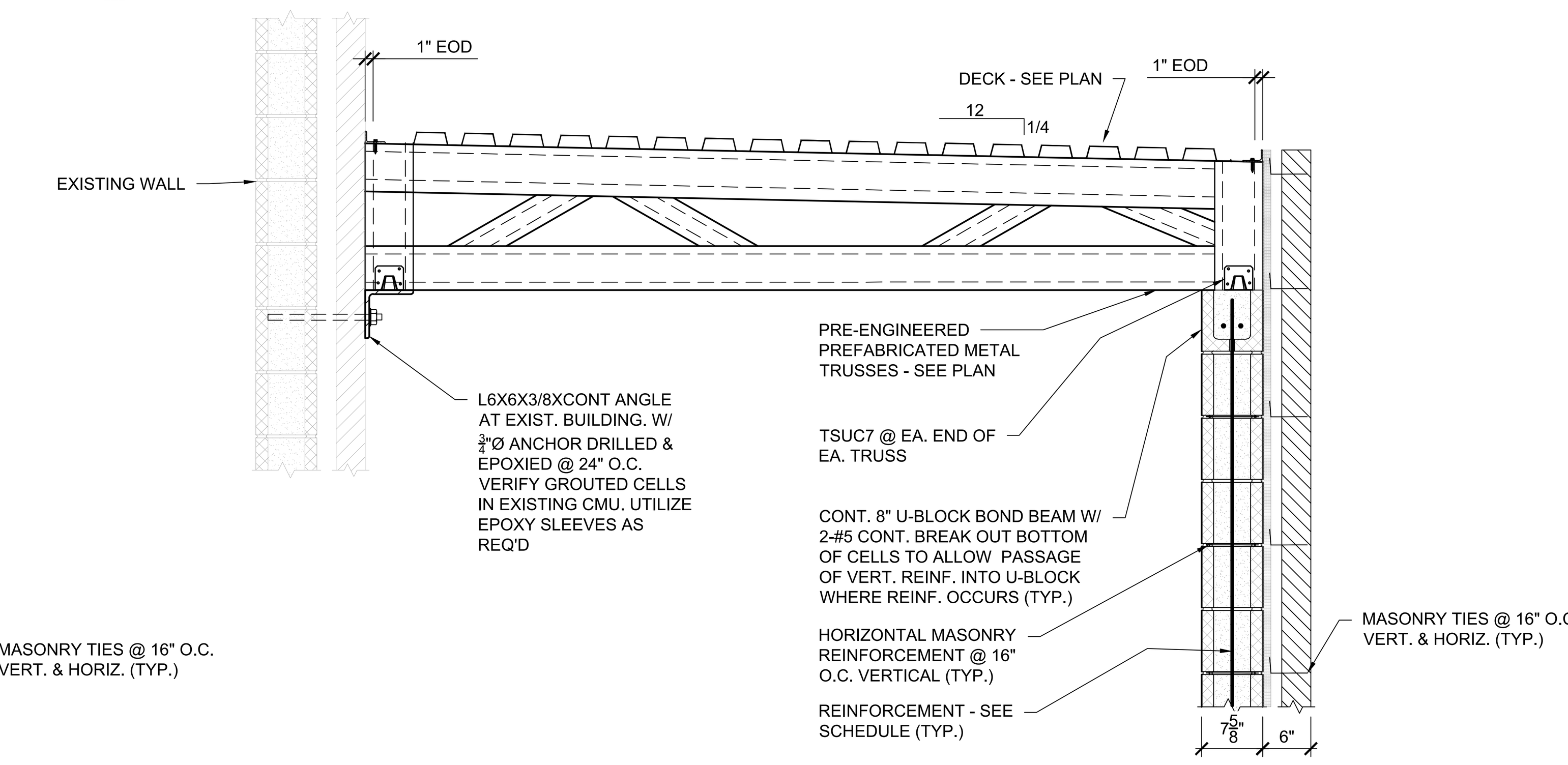
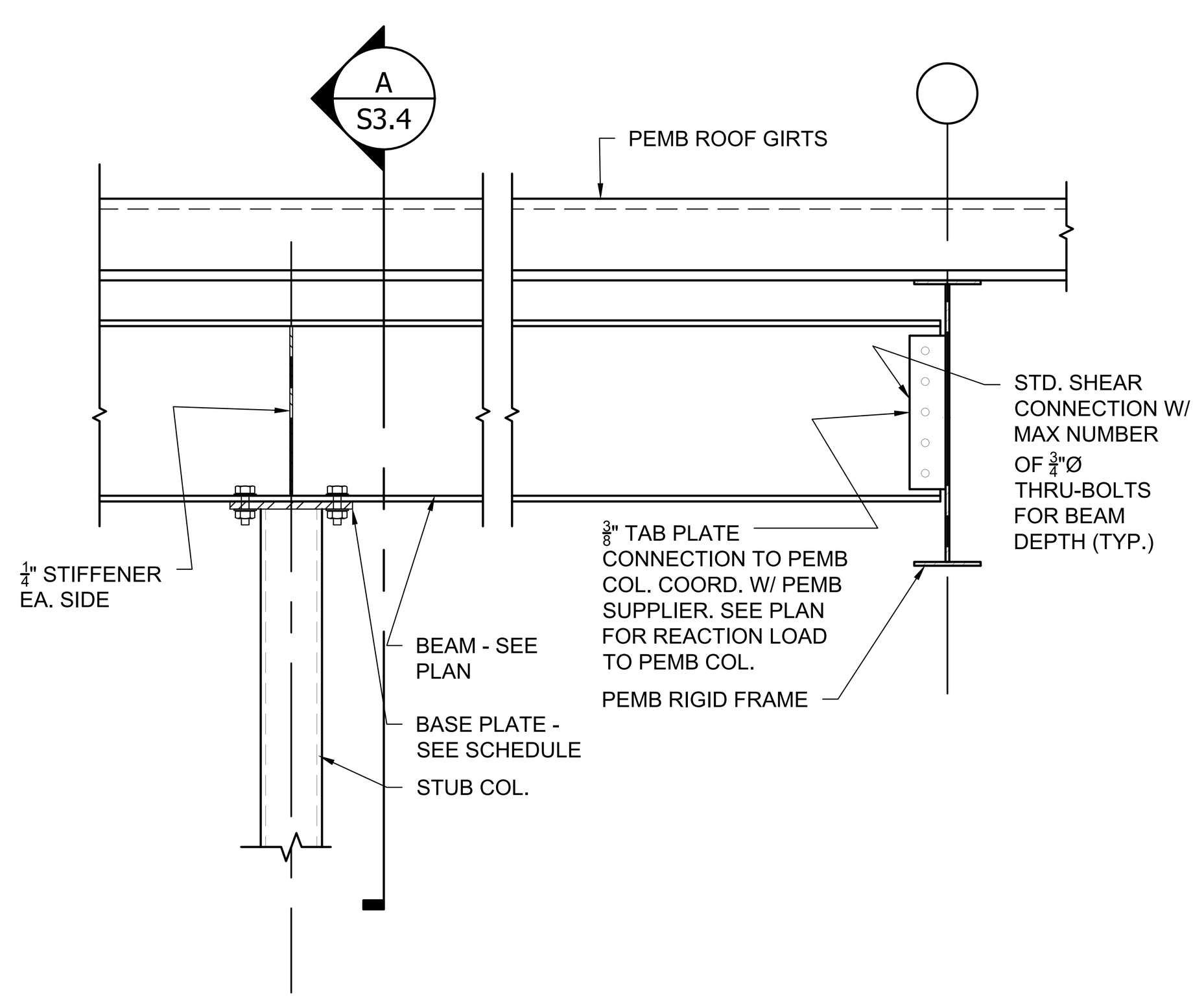


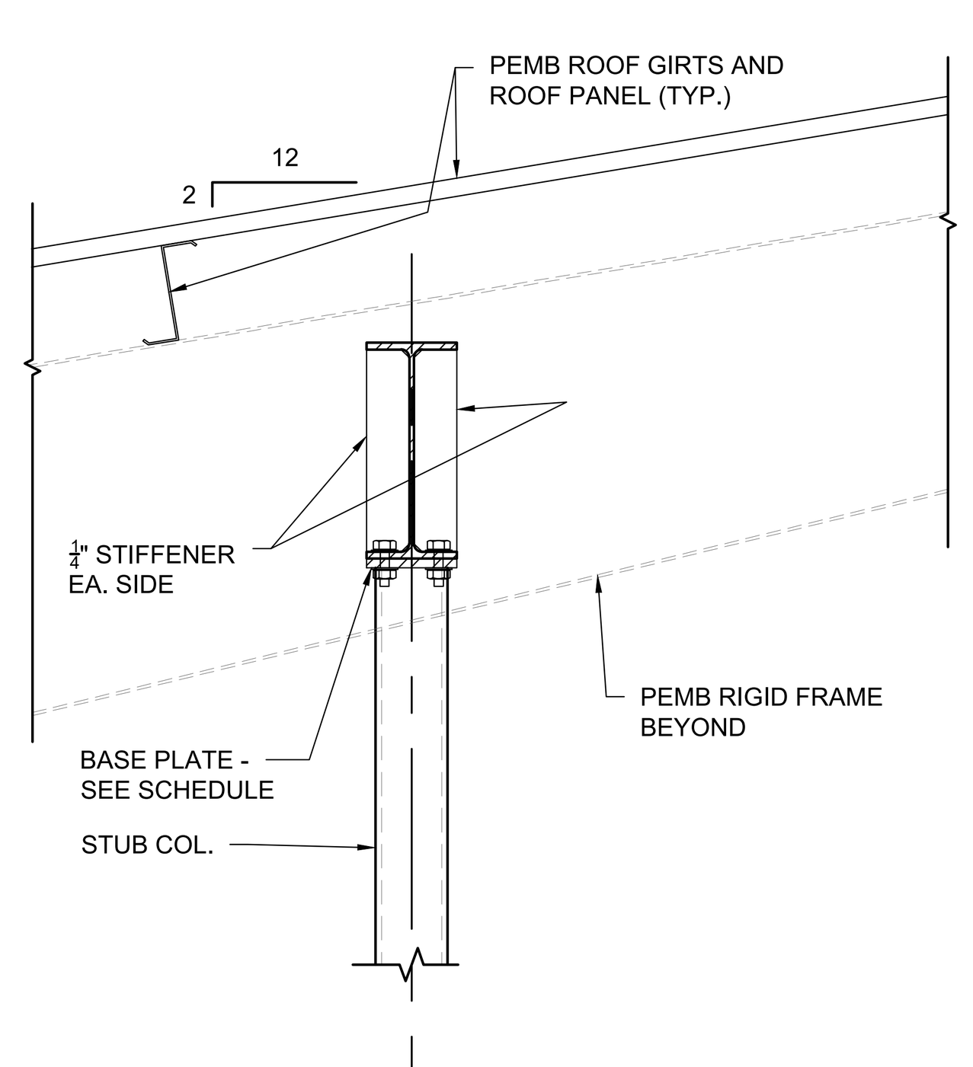
48 **SECTION**
S3.4 SCALE: 3/4" = 1'-0"



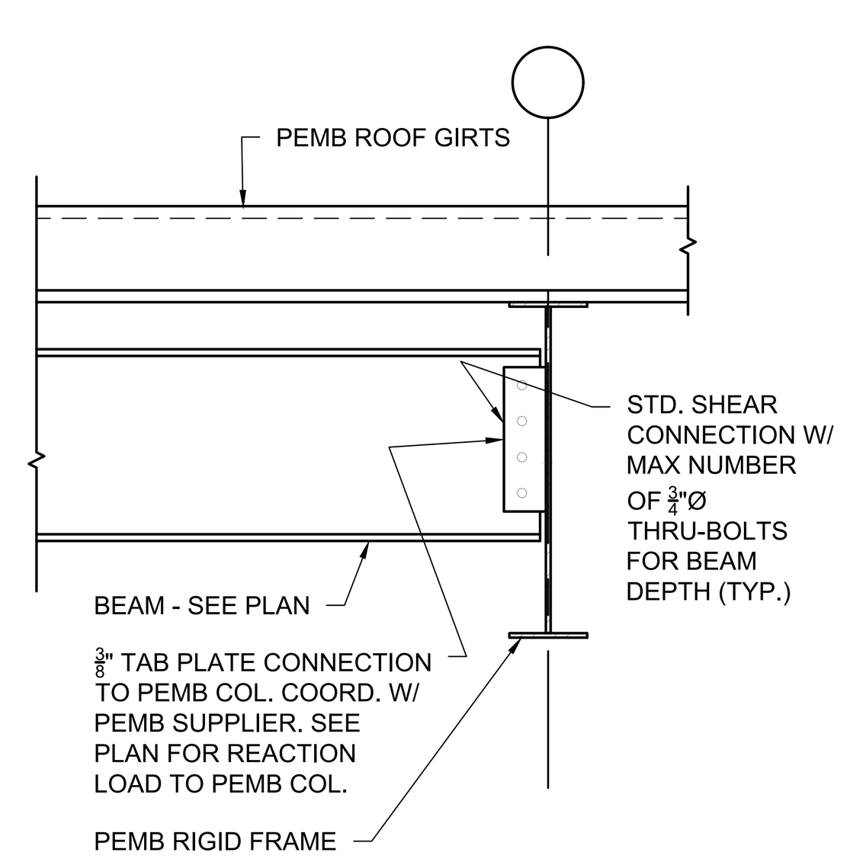
49 **SECTION**
S3.4 SCALE: 3/4" = 1'-0"



50 **SECTION**
S3.4 SCALE: 3/4" = 1'-0"



A **SECTION**
S3.4 SCALE: 3/4" = 1'-0"



51 **SECTION**
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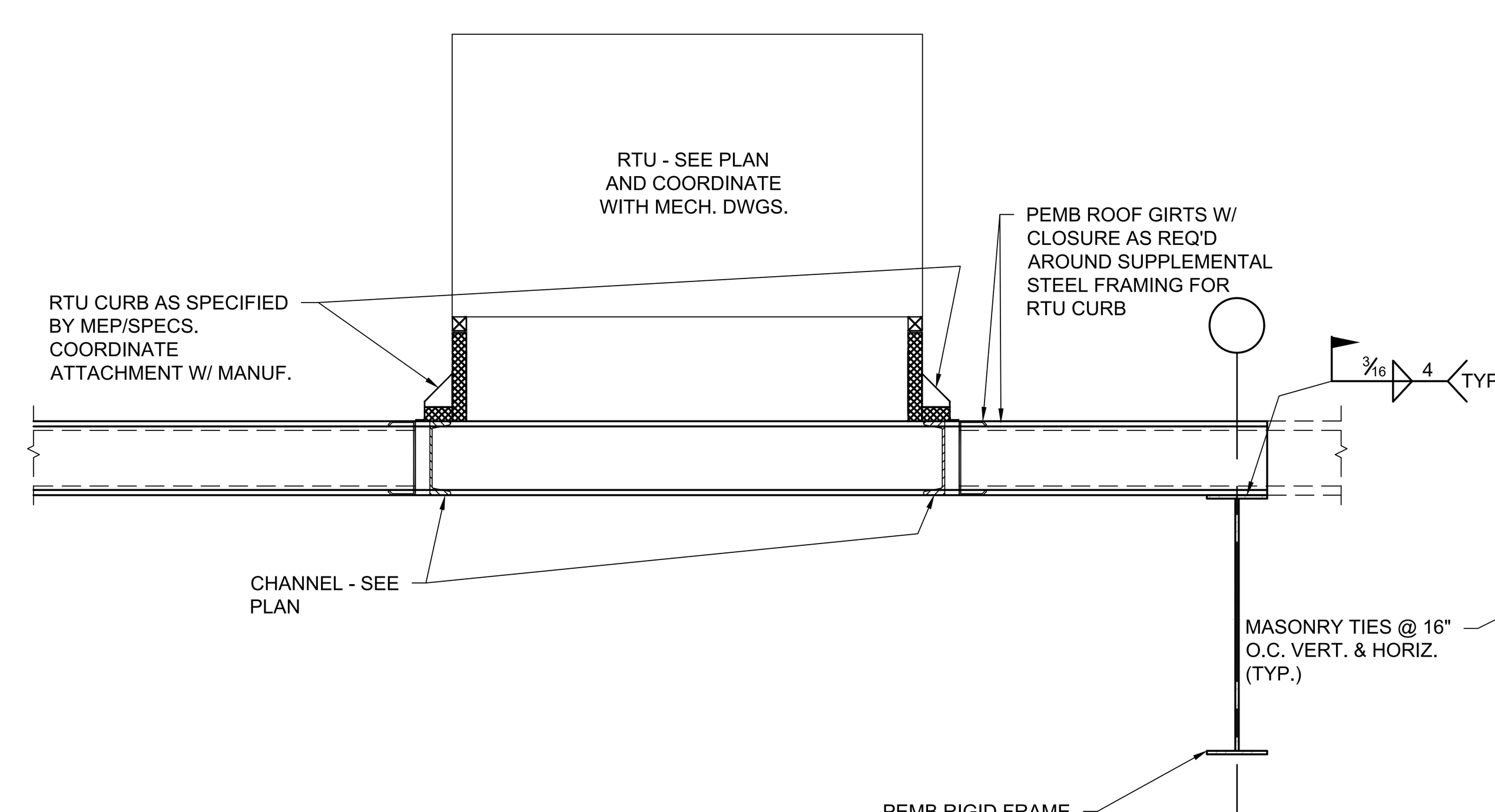

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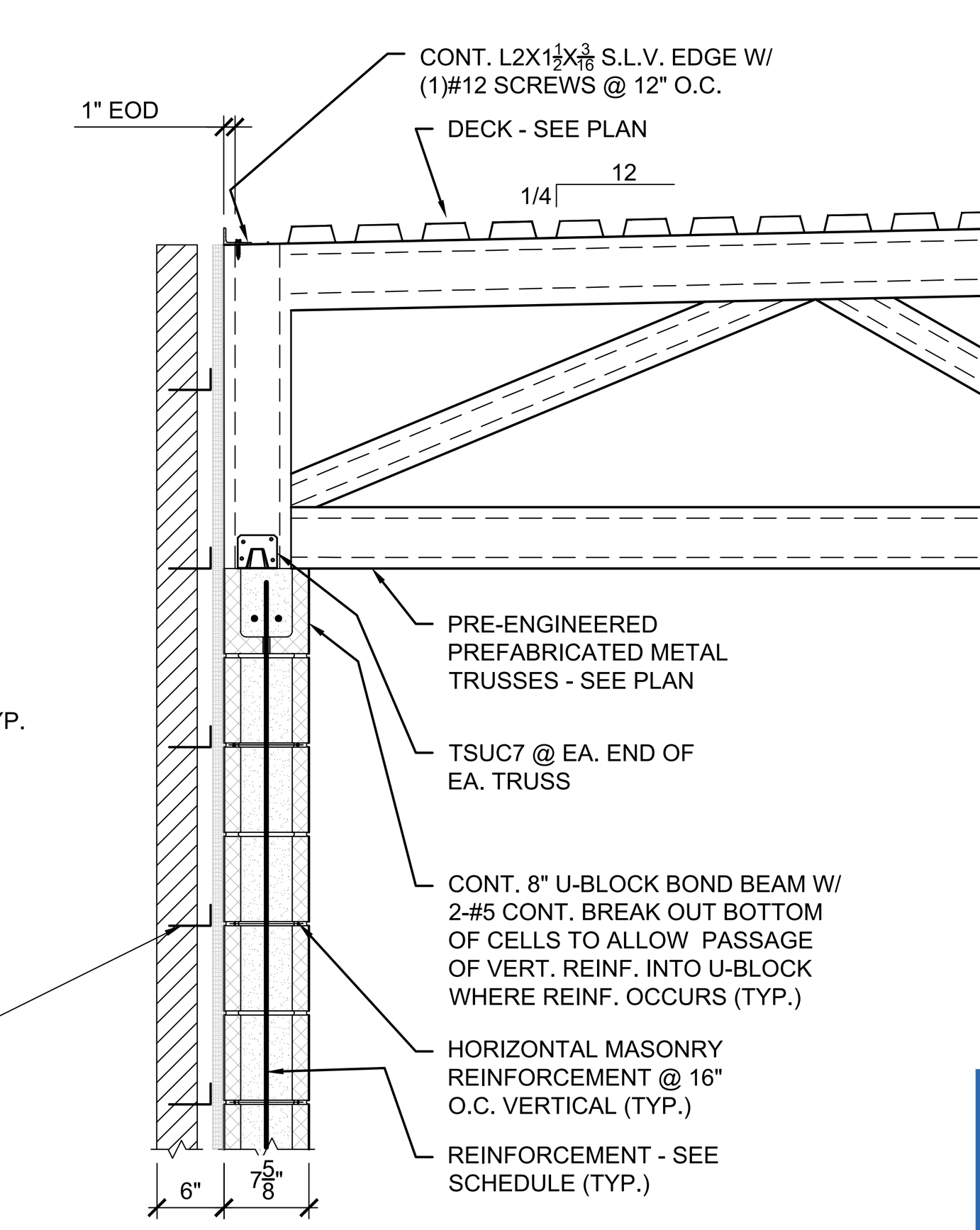
S3.4 SCALE: 3/4" = 1'-0"



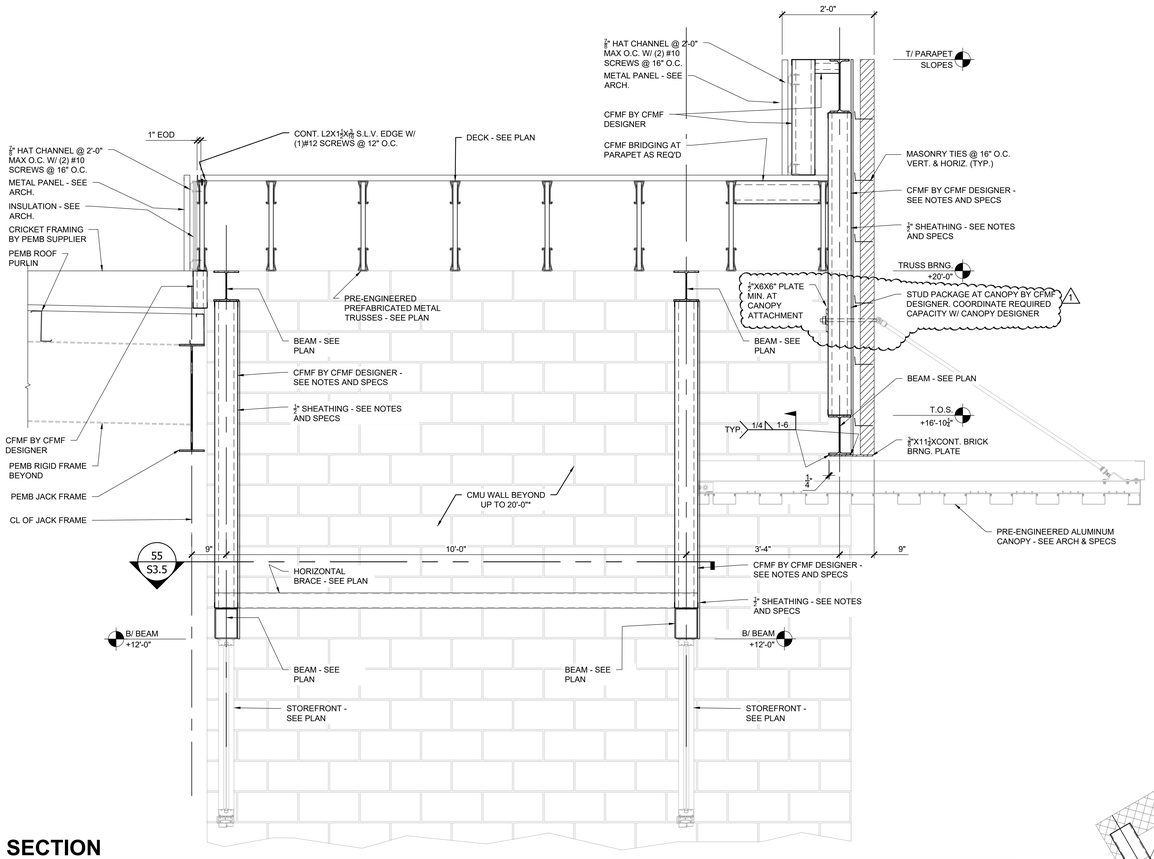
53 **SECTION**
S3.4 SCALE: 3/4" = 1'-0"

NEW GYMNASIUM AT APPALACHIAN SCHOOL
FOR THE
BLOUNT COUNTY BOARD OF EDUCATION
ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

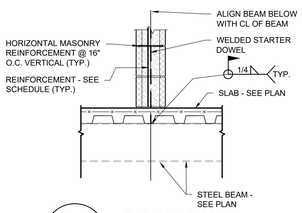
SHEET TITLE :	SECTIONS
MCKEE JOB # :	24-169
DRAWN BY :	TNS
DATE:	9.18.2024
REVISED DATE:	1 10.2.24
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	S3.4

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550



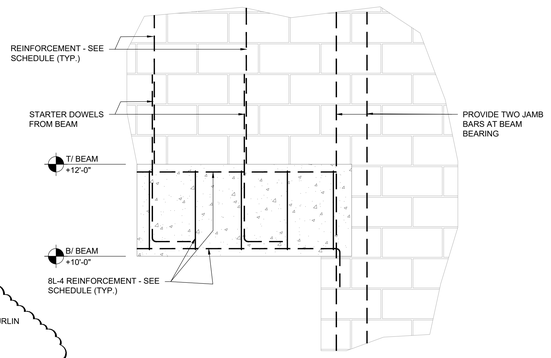
54 S3.5 **SECTION**

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



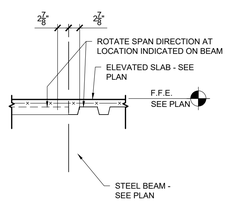
56 S3.5 **SECTION**

SCALE: 35



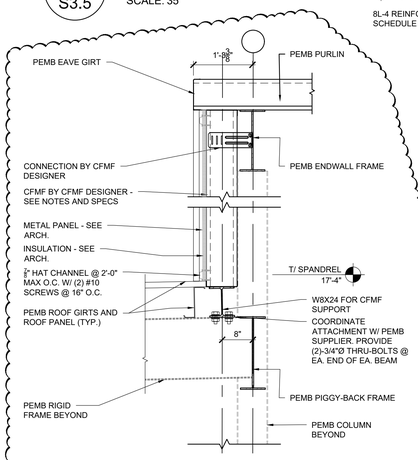
57 S3.5 **SECTION**

SCALE: 35



58 S3.5 **SECTION**

SCALE: 35



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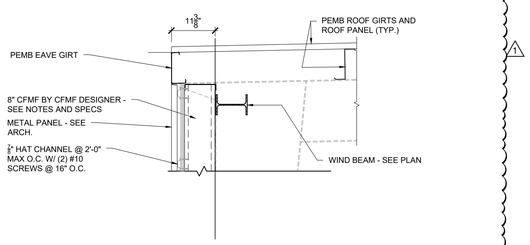
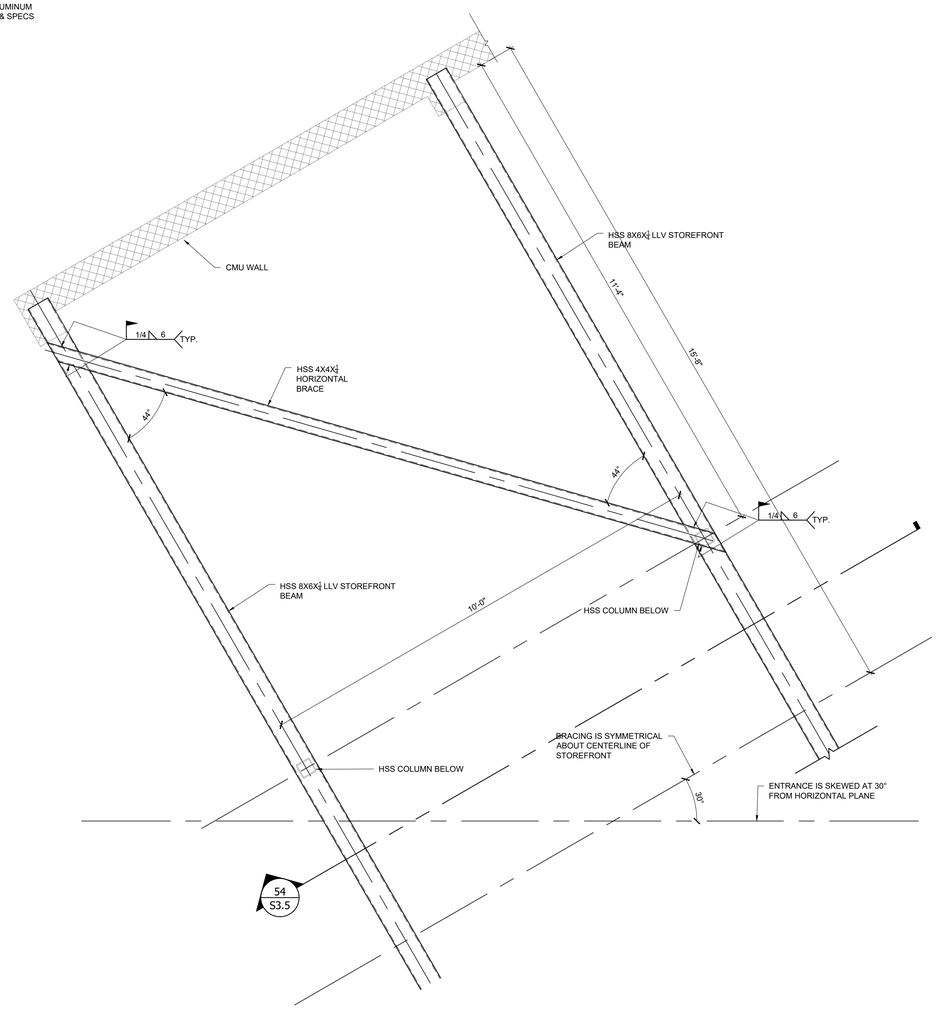
SCALE: 35



60 S3.5 **SECTION**

SCALE: 35



55 S3.5 **BRACING DETAIL PLAN**

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

NEW GYMNASIUM AT APPALACHIAN SCHOOL

FOR THE

BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

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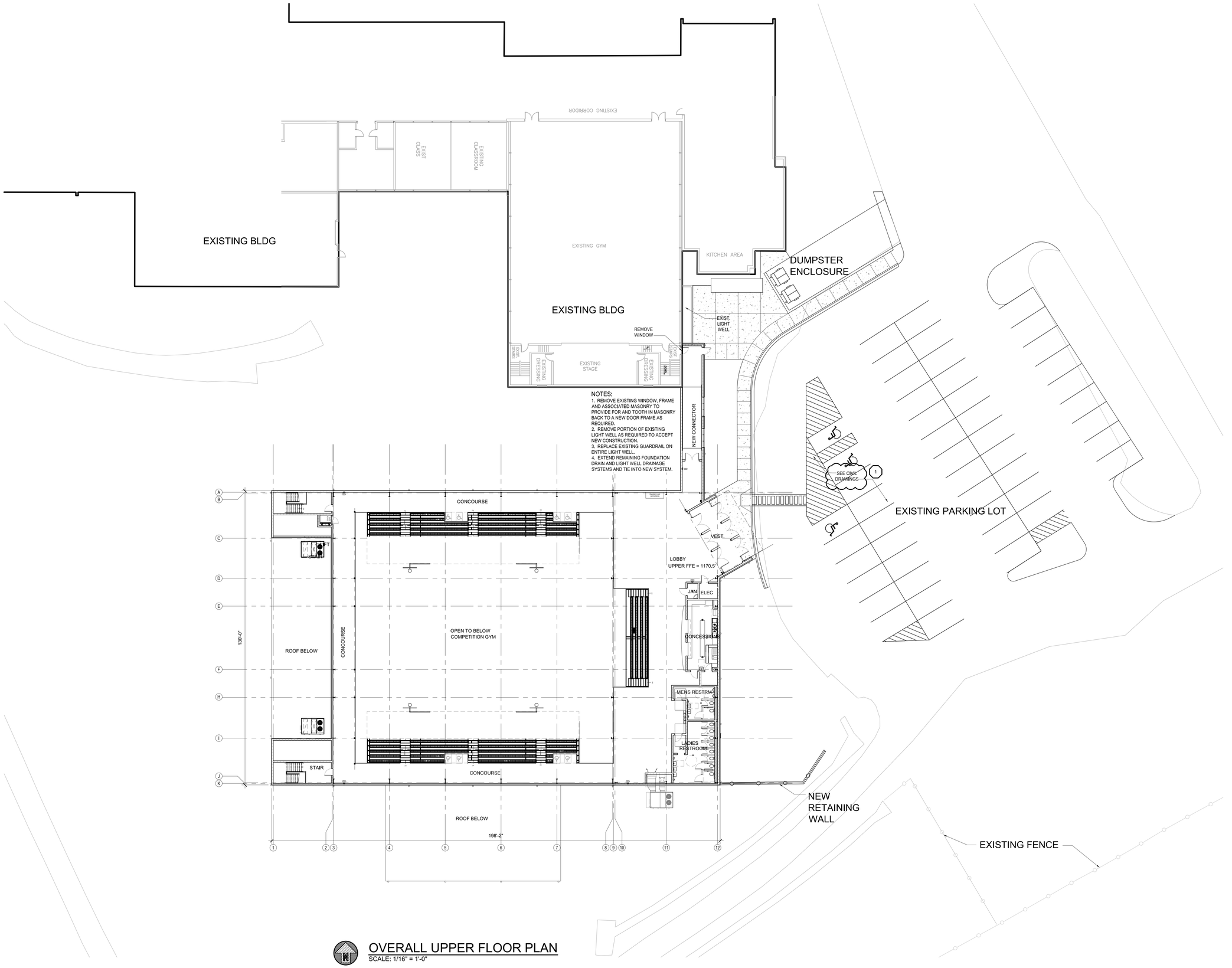
ALABAMA LICENSED 10.2.24 No. 26070 PROFESSIONAL ENGINEER TIMOTHY N. SANDERS

SHEET TITLE :	SECTIONS
MCKEE JOB # :	24-169
DRAWN BY :	TNS
DATE:	9.18.2024
REVISED DATE:	1 10.2.24
REVISED DATE:	
REVISED DATE:	

SHEET NO. : S3.5

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550



OVERALL UPPER FLOOR PLAN

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

NEW GYMNASIUM AT APPALACHIAN SCHOOL

FOR THE

BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET . MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA REGISTERED ARCHITECT
WALTER T. McKEE, JR.
No. 1092
MONTGOMERY, ALA.

SHEET TITLE : OVERALL UPPER PLAN

MCKEE JOB # : 24-169

DRAWN BY : SKL

DATE: 9/18/24

REVISED DATE: 1 9/27/24

REVISED DATE:

REVISED DATE:

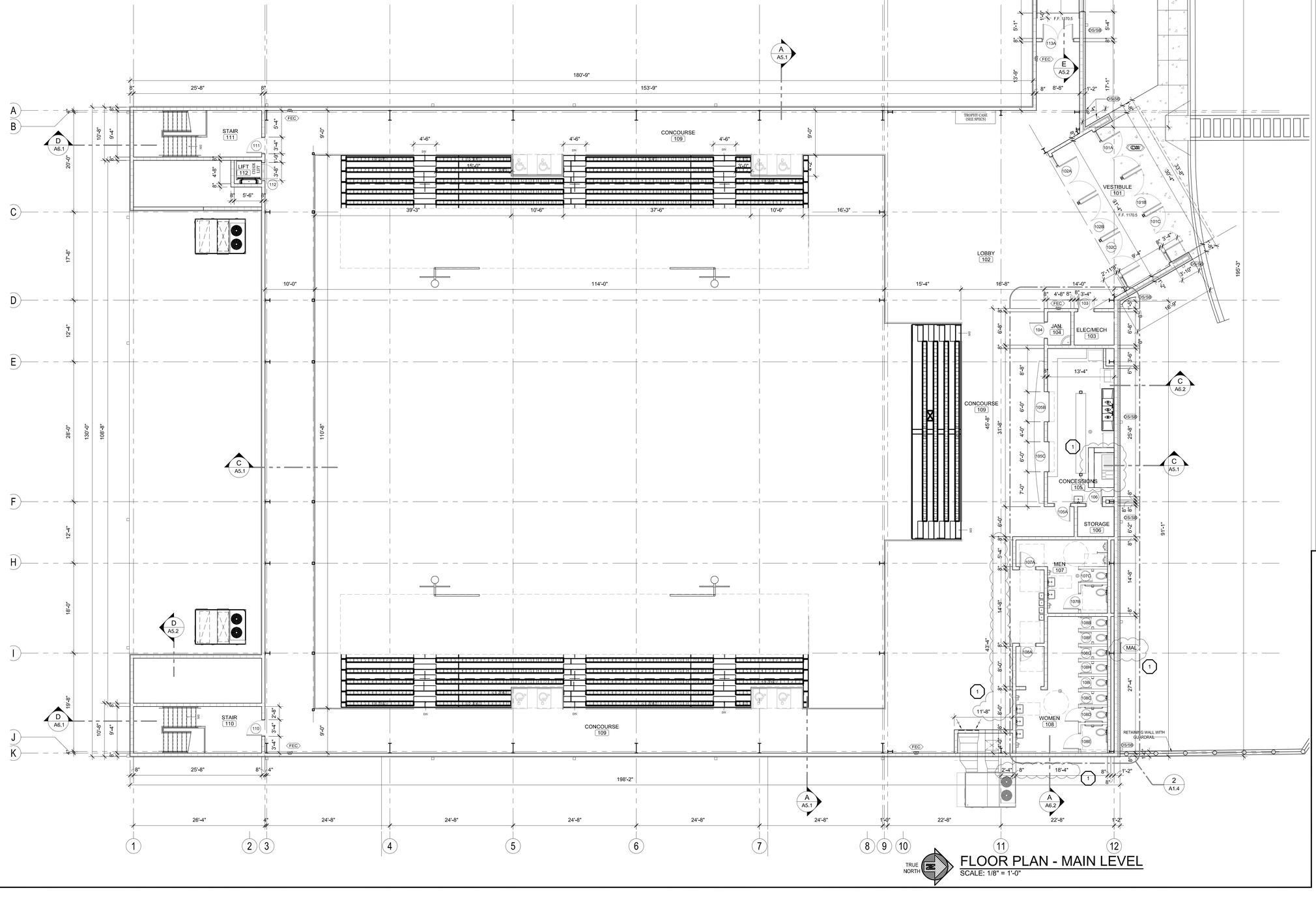
SHEET NO. : A0.1

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
A—	SCHEDULED DOOR AND FRAME
-	SCHEDULED WINDOW UNIT
CORRIDOR 113	SCHEDULED ROOM NAME AND NUMBER
- AX.X	SECTION / DETAIL SYMBOL
- AX.X	BUILDING SECTION SYMBOL
AX.X	INTERIOR ELEVATION SYMBOL
P-	WALL PARTITION TYPES

SYMBOL	DESCRIPTION
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
EHD	ELECTRIC HAND DRYER
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT (SEE SPECS)
AHU	AIR HANDLING UNIT (SEE MECHANICAL)
CEP	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
RA	RETURN AIR (SEE MECHANICAL)
WHR	WALL MOUNTED PRE-FINISHED ALUMINUM HANDRAIL
HGR	PRE-FINISHED ALUMINUM HANDRAIL / GUARDRAIL
GR	PRE-FINISHED ALUMINUM GUARDRAIL
BG1	BASKETBALL GOAL - FORWARD FOLD
BG2	BASKETBALL GOAL - SIDE FOLD
BG4	BASKETBALL GOAL - PORTABLE

SYMBOL	DESCRIPTION
TGS	TELESCOPIC GYMNASIUM SEATING
VBS	VOLLEYBALL SLEEVE
REF	REFRIGERATOR (BY OWNER)
W	WASHER (BY OWNER)
D	DRYER (BY OWNER)
IM	ICE MACHINE (BY OWNER)
XMB	X'-0" MARKER BOARD
4TB	4'-0" TACK BOARD
MAL	METAL ACCESS LADDER TO ROOF
MO	MASONRY OPENING
CO	CASED OPENING
WP	WALL PADS (SEE SPECS)
CW	NEW CONCRETE WALK- SEE SITE PLAN



FLOOR PLAN - MAIN LEVEL

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

TRUE NORTH

NEW GYMNASIUM AT APPALACHIAN SCHOOL

FOR THE

BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA REGISTERED ARCHITECT
WALTER T. McKEE, JR.
No. 1062
MONTGOMERY, ALA.

SHEET TITLE : FLOOR PLAN - MAIN LEVEL

MCKEE JOB # : 24-169

DRAWN BY : SKL

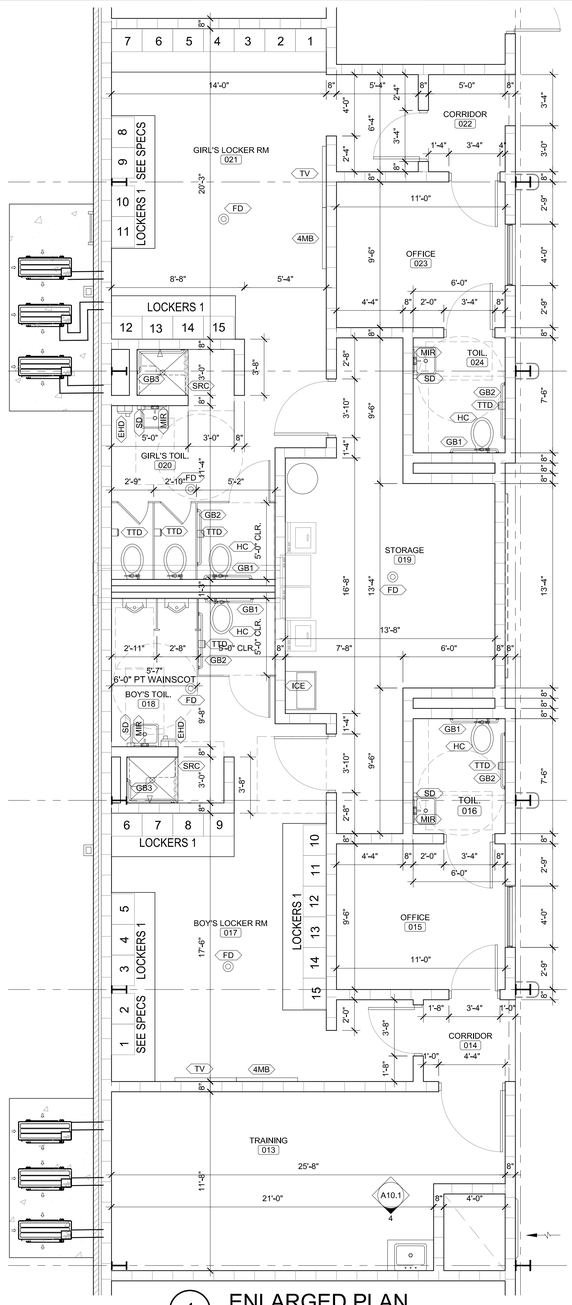
DATE: 9/18/24

REVISED DATE: 1 9/27/24

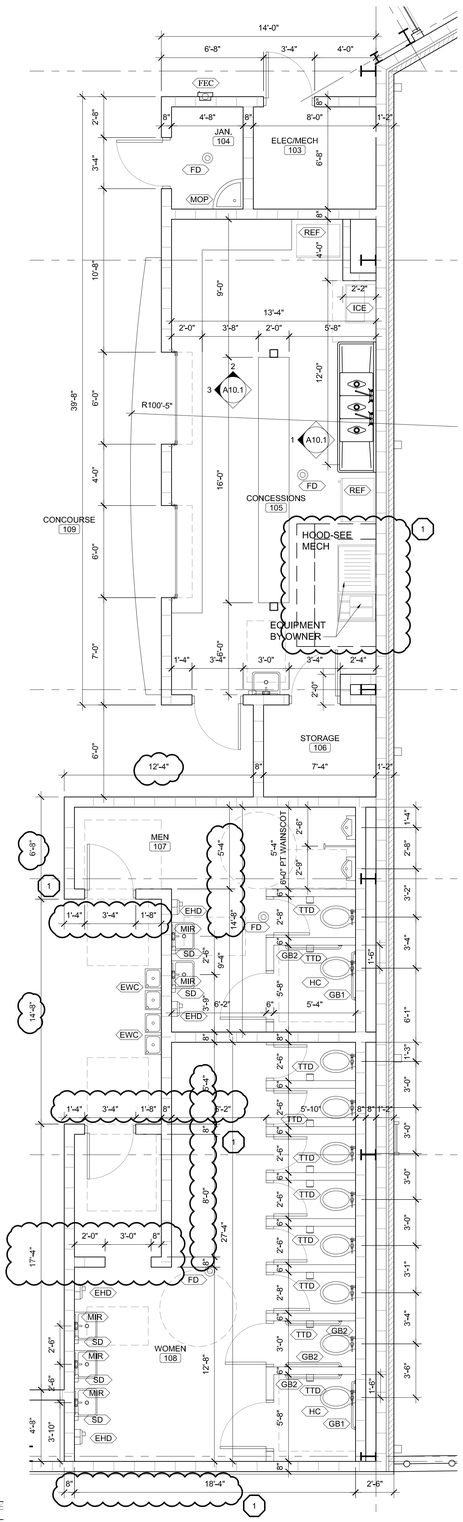
REVISED DATE:

REVISED DATE:

SHEET NO. : A1.1



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



2 ENLARGED PLAN
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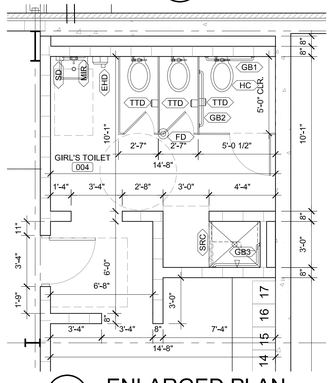
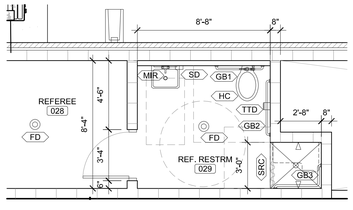
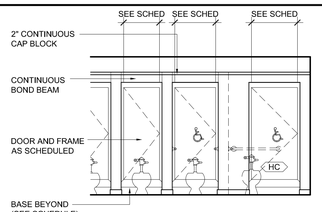


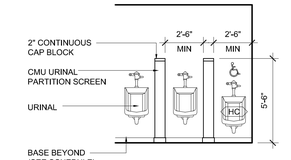
3 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



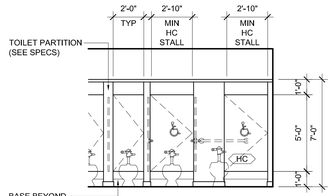
4 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



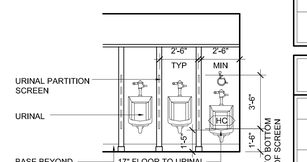
TYP. CMU TOILET SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



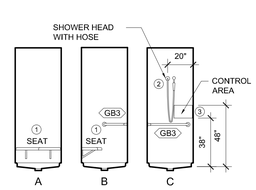
TYP. CMU URINAL SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



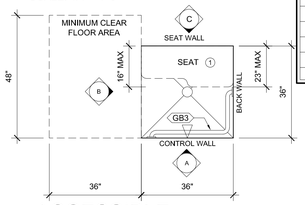
TYP. TOILET SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



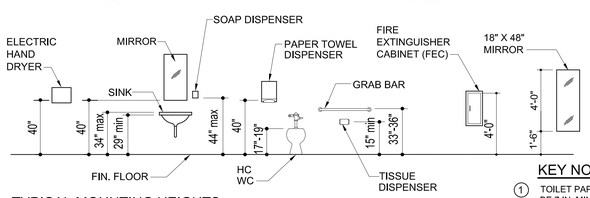
TYP. URINAL SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



ACCESSIBLE SHOWER ELEVATIONS
SCALE: 1/4" - 1'-0"

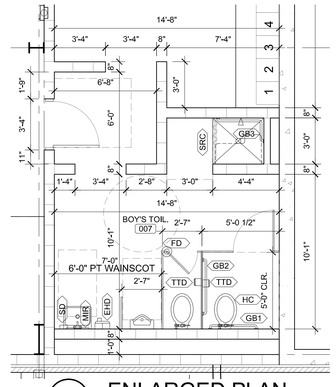


ACCESSIBLE SHOWER PLAN
SCALE: 1/2" - 1'-0"



TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

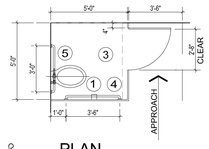
NOTE: GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 IN. MIN. and 36 IN. MAX. ABOVE FINISHED FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



5 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES

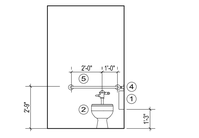
1. TOILET PAPER DISPENSER SHALL BE 7 IN. MIN. and 9 IN. MAX. IN FRONT OF WATER CLOSET MEASURED TO CENTERLINE OF DISPENSER. THE DISPENSER OUTLET SHALL BE 15 IN. MIN. and 48 IN. MAX. ABOVE FLOOR and NOT BE LOCATED BEHIND GRAB BARS.
2. WATER CLOSET HEIGHT TO BE 17 IN. TO 19 IN. MEASURED TO TOP OF SEAT.
3. WHEELCHAIR ACCESSIBLE STALLS SHALL BE 60" MINIMUM DEPTH AND WIDTH WITH 32" MINIMUM WIDTH DOOR THAT SWINGS OUT. CENTER LINE OF WATER CLOSET TO BE 16" TO 18" FROM NEAR WALL.
4. A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
5. THE REAR WALL GRAB BAR SHALL BE 24 IN. LONG MIN., CENTERED ON THE WATER CLOSET. WHERE SPACE PERMITS, THE BAR SHALL BE 36 IN. LONG MIN. WITH THE ADDITIONAL LENGTH PROVIDED ON THE TRANSFER SIDE OF THE WATER CLOSET.
6. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE (TOP) AT THE LOCATION SHOWN AND DOES NOT OBSTRUCT THE CLEAR FLOOR SPACE.
7. COAT HOOKS PROVIDED WITHIN TOILET ROOMS SHALL BE 48 " MAX. ABOVE THE FLOOR. WHERE PROVIDED A FOLD DOWN SHELF SHALL BE 40" MIN. and 48" MAX. ABOVE FLOOR.
8. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



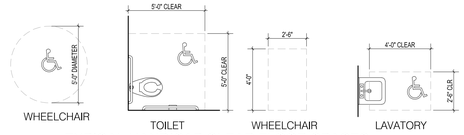
PLAN
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"

NOTE: THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN. AND 18" MAX. FROM THE SIDE WALL OR PARTITION.

DOORWAYS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM. CLEAR OPENING OF DOORWAYS WITH SWING DOORS SHALL BE MEASURED BETWEEN FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.



ELEVATION
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"



TYPICAL HANDICAP CLEAR FLOOR SPACES
SCALE: 1/4"=1'-0"

TOILET ACCESSORIES LEGEND

KEYNOTE	DESCRIPTION
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (SEE SPECS)
PTD	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS)
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB3	CORNER GRAB BAR AND IS TO BE 33"-36" AFF (SEE SPECS)
MIR	18" X 36" MIRROR WITH SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 35" AFF AND THE TOP EDGE 71" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
SRC	40" LONG SHOWER ROD AND CURTAIN TO BE MOUNTED 84" AFF
EHD	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE SPECS)

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
CORRIDOR 022	SCHEDULED ROOM NAME AND NUMBER
P1	WALL PARTITION TYPES
X / X A.X X / X	INTERIOR ELEVATION SYMBOL
WH	WATER HEATER - (SEE PLUMBING)
REF	REFRIGERATOR (BY OWNER)
W	WASHER (BY OWNER)
D	DRYER (BY OWNER)
ICE	ICE MACHINE (BY OWNER)

ACCESSIBLE SHOWER NOTES

1. A FOLDING SEAT SHALL BE PROVIDED IN EACH ACCESSIBLE SHOWER STALL AND SHALL BE MOUNTED 17"-19" FROM THE SHOWER FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE SHOWER STALL (SEE SPECS) SEAT SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.
2. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER SHALL BE PROVIDED (SEE SPECS)
3. ALL CONTROLS, SHOWER HEADS ETC SHALL BE LOCATED ON OPPOSITE WALL FROM SHOWER SEAT (SEE ELEVATIONS FOR MOUNTING HEIGHTS)
4. ONE ACCESSIBLE SHOWER STALL SHALL BE PROVIDED AT EACH TOILET/SHOWER ROOM (SEE PLAN FOR LOCATION). SECOND STALL TO BE A STANDARD SHOWER WITH A FIXED SHOWER HEAD. GRAB BARS AND SHOWER SEAT WILL NOT BE REQUIRED.

NEW GYMNASIUM AT APPALACHIAN SCHOOL

FOR THE

BLOUNT COUNTY BOARD OF EDUCATION

ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET - MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1882
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : ENLARGED PLANS AND DETAILS

MCKEE JOB # : 24-169

DRAWN BY : SKL

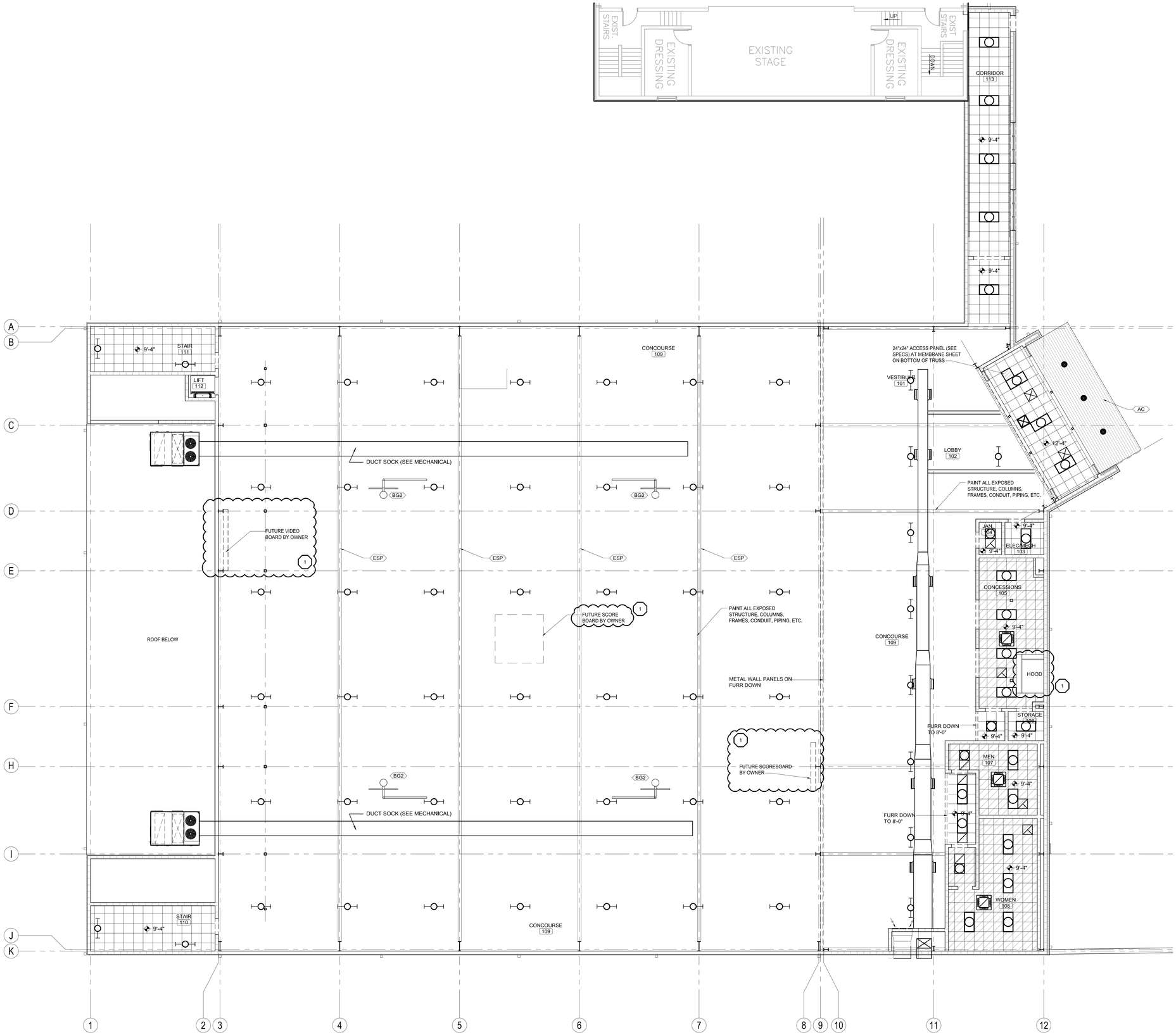
DATE: 9/18/24

REVISED DATE: 1 9/27/24

REVISED DATE:

REVISED DATE:

SHEET NO. : A1.4



REFLECTED CEILING PLAN - PART "X"

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

TRUE NORTH

NEW GYMNASIUM AT APPALACHIAN SCHOOL

FOR THE

BLOUNT COUNTY BOARD OF EDUCATION

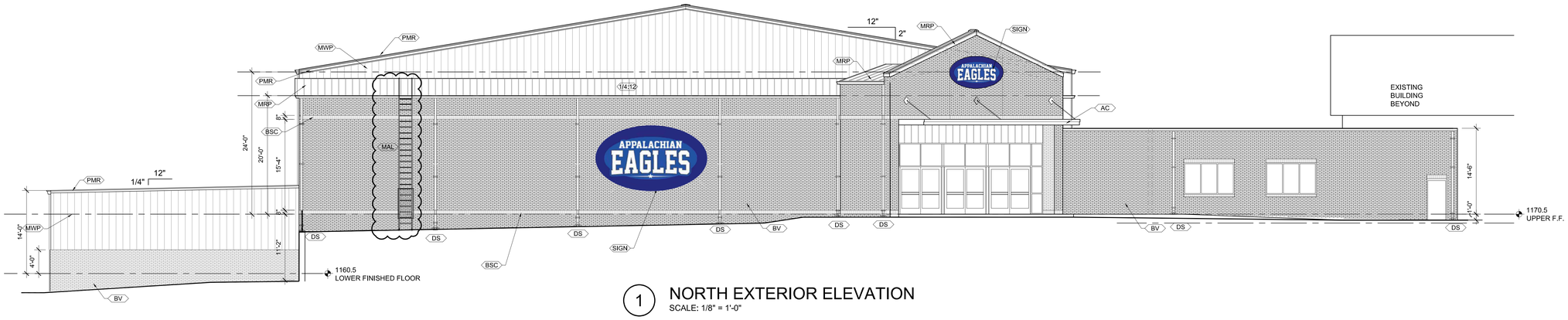
ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET . MONTGOMERY . ALABAMA 36104 (334) 834-9933

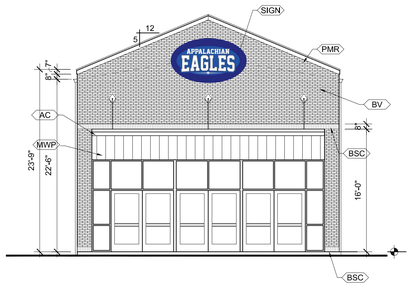
STATE OF ALABAMA REGISTERED ARCHITECT
WALTER T. McKEE, JR.
No. 1882
MONTGOMERY, ALA.

SHEET TITLE :	REFLECTED CEILING PLAN MAIN LEVEL
MCKEE JOB # :	24-169
DRAWN BY :	SKL
DATE:	9/18/24
REVISED DATE:	1 9/27/24
REVISED DATE:	
REVISED DATE:	

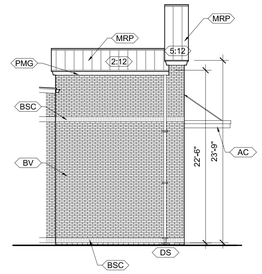
SHEET NO. : A2.1



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



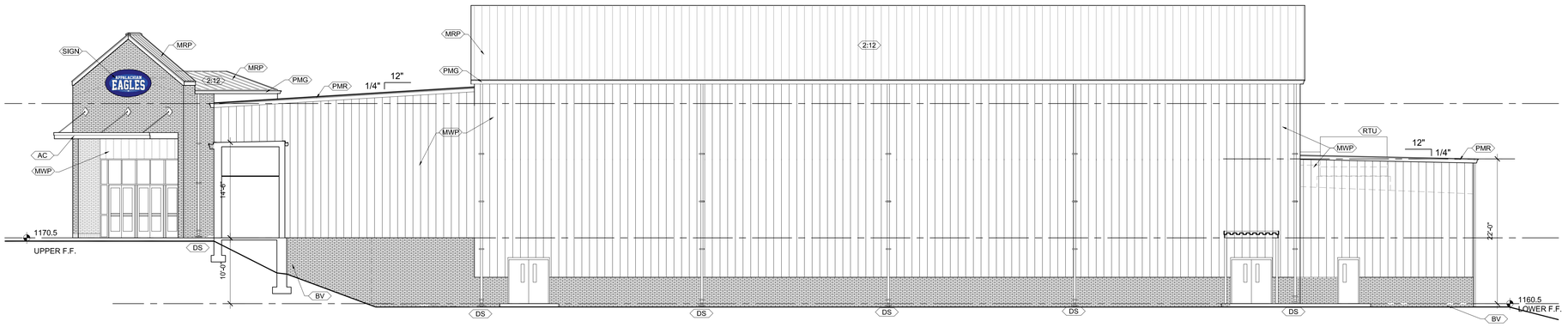
2 NORTH ENTRANCE ELEVATION
SCALE: 1/8" = 1'-0"



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

EXTERIOR ELEVATION LEGEND

SYMBOL	DESCRIPTION
A-X.X	BUILDING SECTION SYMBOL
AC	ALUMINUM CANOPY
BV	BRICK VENEER
BVS	BRICK VENEER - SOLDIER COURSE
DS	PREFINISHED METAL DOWNSPOUT
DS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
MCJ	MASONRY CONTROL JOINT LOCATIONS
MWP	METAL WALL PANELS
MRP	METAL ROOF PANELS
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
PME	PREFINISHED METAL EAVE TRIM
RTU	ROOF TOP UNIT - SEE MECHANICAL
SIGN	PRE-LIT LOGO SIGNAGE- SEE ALLOWANCE
MAL	METAL ACCES LADDER TO ROOF



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

NEW GYMNASIUM AT APPALACHIAN SCHOOL
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ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
REGISTERED ARCHITECT
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.

SHEET TITLE : EXTERIOR ELEVATIONS

MCKEE JOB # : 24-169

DRAWN BY : SKL

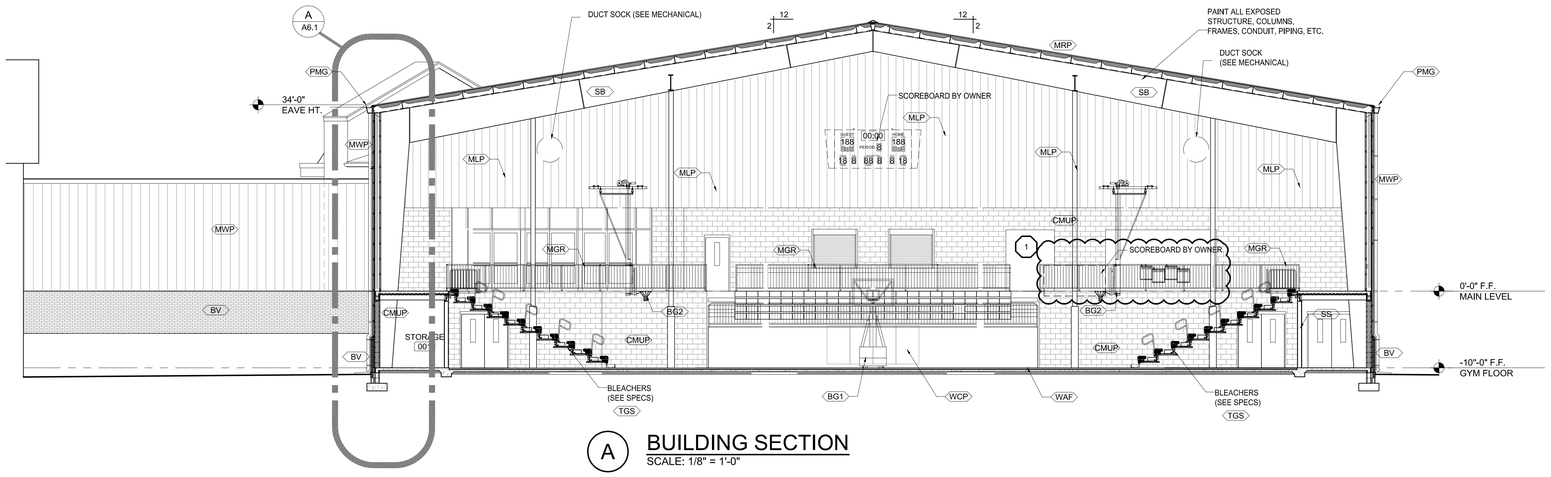
DATE: 9/18/24

REVISED DATE: 1 9/27/24

REVISED DATE:

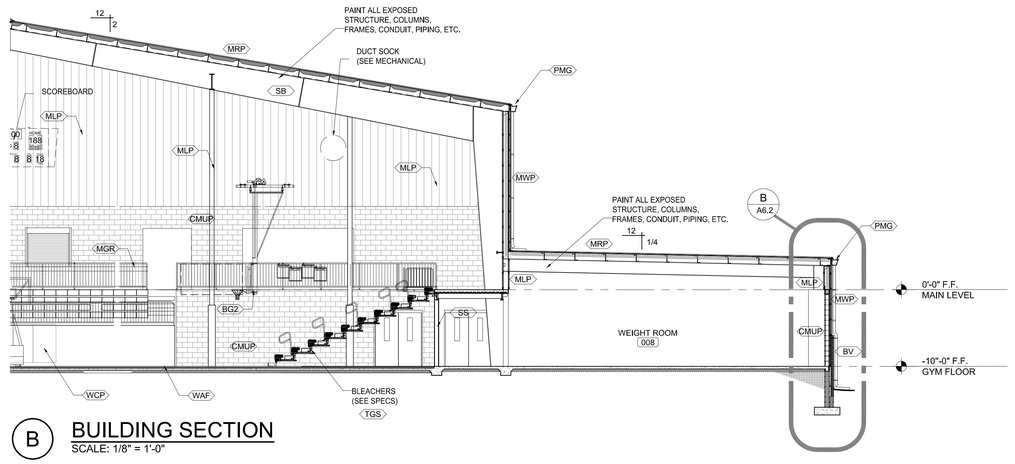
REVISED DATE:

SHEET NO. : A4.1

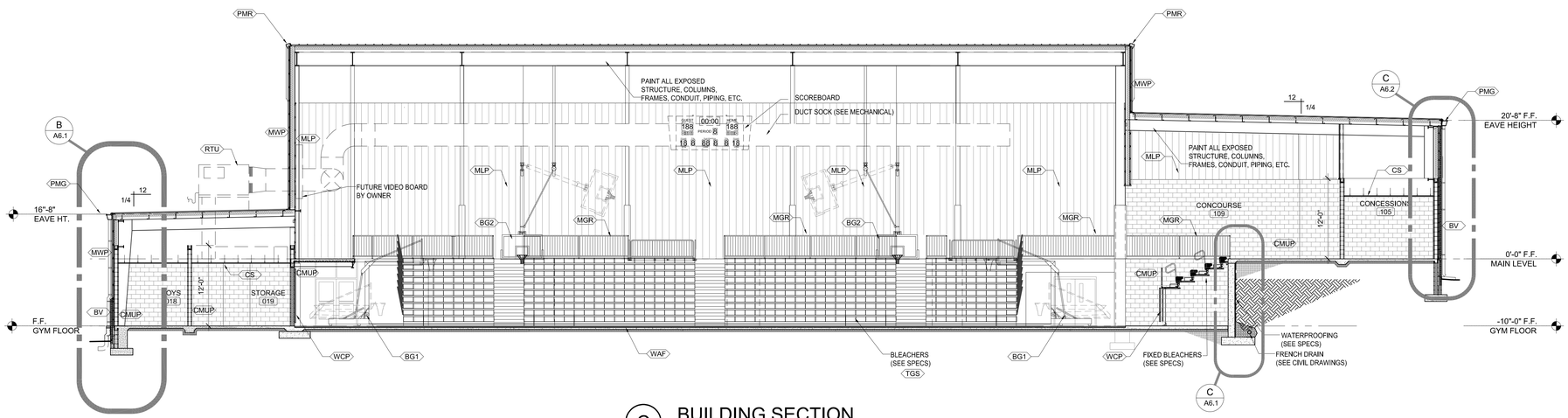


A BUILDING SECTION
SCALE: 1/8" = 1'-0"

BUILDING SECTION LEGEND	
SYMBOL	DESCRIPTION
CMUP	CONCRETE MASONRY UNIT - PAINT
MLP	ACCOUSTICAL METAL LINER PANEL (SEE SPECS)
GBP	GYPSUM BOARD - PAINT
MRP	METAL ROOF PANEL
MWP	METAL WALL PANEL (SEE SPECS)
MGR	METAL GUARD RAIL - PAINT
BG1	BASKETBALL GOAL - PORTABLE (SEE SPECS)
BG2	BASKETBALL GOAL - SIDE FOLD (SEE SPECS)
CCP	COLUMN CRASH PADS
WCP	WALL CRASH PADS
TGS	TELESCOPIC GYMNASIUM SEATING
ESP	EXPOSED STRUCTURE - PAINT
SB	STEEL BEAM - AS REQUIRED FOR ALL FOLDING GOALS
PMG	PREFINISHED METAL GUTTER - BY METAL BUILDING MANUFACTURE
SS	6" STEEL STUD FRAMING @ 16" O.C. W/ GYPSUM BOARD EACH SIDE
CS	CEILING AS SPECIFIED
WAF	WOOD ATHLETIC FLOORING
PMR	PREFINISHED METAL RAKE - BY METAL BUILDING MANUFACTURE
BV	BRICK VENEER



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



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

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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1982
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : BUILDING SECTIONS

MCKEE JOB # : 24-169

DRAWN BY : SKL

DATE: 9/18/24

REVISED DATE: 1 9/27/24

REVISED DATE:

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SHEET NO. : A5.1

ELECTRICAL LEGEND

CEILING OUTLETS

- A (2) RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A (2) RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- A 2 RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A 2 RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- A (2) RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A (2) RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- FS 2 SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS 2 SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE "EMERGENCY BATTERY POWER"
- (J) JUNCTION BOX
- EXIT LIGHT
- EF EXHAUST FAN
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.
- G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.

LIGHTING CONTROLS

- OS CEILING MOUNTED OCCUPANCY SENSOR
- PP POWER PACK FOR OCCUPANCY SENSOR
- L1 ROOM CONTROLLER – 1 ZONE DIMMING
- L2 ROOM CONTROLLER – 2 ZONE DIMMING
- RC ROOM CONTROLLER – ON/OFF NO DIMMING
- D1 WALL DIMMER – ON/OFF & 0-10V 1-ZONE DIMMING
- D2 WALL DIMMER – ON/OFF & 0-10V 2-ZONE DIMMING
- S_L LOW VOLTAGE SWITCH, 2-BUTTON
- S_{LX} LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
- S_{O1} OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

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 COMBO EXIT LIGHT/EMERGENCY
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY WALL PACK
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- W DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE; OUTLET BOX HOODS SHALL BE IDENTIFIED AS "EXTRA-DUTY" (1)
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX 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
- SINGLE RECEPTACLE – 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R. MOUNT AS DIRECTED FOR RACK UPS SYSTEM
- 250V RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 10-30R; HUBBELL SERIES 9350
- (J) JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- (P) PHOTOCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.
- 250V RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 14-30R; HUBBELL SERIES 9350

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GROUND
- RUN CONCEALED IN CEILING OR WALLS
- LA-1 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; //// 4 #12, 1 #12 GROUND – 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 10 LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND – 3/4" C; 10/// 3 #10, 1 #10 GROUND – 3/4" C; 10//// 4 #10, 1 #10 GROUND – 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 8 LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND – 1" C; 8/// 3 #8, 1 #10 GROUND – 1" C; 8//// 4 #8, 1 #10 GROUND – 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 6 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 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
- E EMPTY CONDUIT WITH PULLWIRE, RUN CONCEALED IN CEILING OR WALLS

COMMUNICATION SYSTEMS

- WALL COMMUNICATIONS OUTLET – SEE DETAILS ON SHEET E6.2
- (W) WIRELESS ACCESS POINT – SEE DETAILS ON SHEET E6.2
- CCTV SECURITY CAMERA – SEE DETAILS ON SHEET E6.2
- (V) VAPE SENSOR CEILING OUTLET – SEE DETAILS ON SHEET E6.2
- COMMUNICATIONS FLOOR RACK SEE DETAIL E6.3

PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CON CONTROL PANEL
- NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- 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
- (5) MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; '5' INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- T TRANSFORMER
- GROUNDING ELECTRODE CONNECTION

MISCELLANEOUS EQUIPMENT

- C CONTACTOR
- EXTERIOR POLE LIGHT
- WH WATER HEATER

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

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S_3 A.C. TYPE, 3-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_{M2} MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS DOUBLE POLE SINGLE THROW, A.C. TYPE, 30 AMP, 208 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.

FIRE ALARM SYSTEM

- FACP FIRE ALARM SYSTEM CONTROL PANEL
- ANN FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
- FPC FIRE ALARM SYSTEM FIRE PUMP CONTROLLER
- F FIRE ALARM SYSTEM MANUAL PULL STATION
- S FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE
- H WP WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN/STROBE
- F FIRE ALARM SYSTEM STROBE
- SS FIRE ALARM SYSTEM SUPERVISORY SWITCH
- TS FIRE ALARM SYSTEM TAMPER SWITCH
- FS FIRE ALARM SYSTEM FLOW SWITCH
- HD FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- SD FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- SD_E FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED, ELEVATOR RECALL
- CO FIRE ALARM SYSTEM AUTOMATIC CARBON MONOXIDE DETECTOR W/ AUDIBLE SOUNDER; CEILING MOUNTED. PROVIDE WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- DD FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
- RT FIRE ALARM SYSTEM REMOTE TEST STATION
- ZC FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE
- ZM FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS
- F FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED

MISCELLANEOUS

A	AMPERE
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	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

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 CONDUITS AS SHOWN ON SHEET E6.3
PROVIDE TWO (2) 1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING IN CORRIDOR
PROVIDE TWO (2) 1 1/4" CONDUITS TO TBB. PROVIDE ADDITIONAL CONDUITS AS SHOWN ON DRAWINGS.
PROVIDE PROTECTIVE COLLAR FOR STUBS.
PROVIDE WITH FLOOR EXTENSION FOR MOUNTING IN GYMNASIUM FLOOR

INTERCOM SYSTEM

- (S) INTERCOM SPEAKER – DROP-IN CEILING TILE SPEAKER
- (S) RECESSED INTERCOM SPEAKER – RECESSED LOUD SPEAKER FOR GYM
- INT INTERCOM SYSTEM – CONSOLE
- I INTERCOM CIRCUITRY

GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY IS 277/480V, 3 PHASE, 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 BACKSPLASHES 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. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY BALLAST CONNECTED AHEAD OF LOCAL SWITCHING.
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.
26. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.

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1200 Providence Park, Suite 200, Birmingham, AL 35242
GA#24-180

SHEET TITLE : ELECTRICAL LEGEND & NOTES
MCKEE JOB # : 24-169
DRAWN BY : J. TILLERY
DATE: 09.18.24
REVISED DATE: 09-27-2024 (1)
REVISED DATE:
REVISED DATE:
SHEET NO. : E0.1

Friday, September 27, 2024 10:24:10 AM

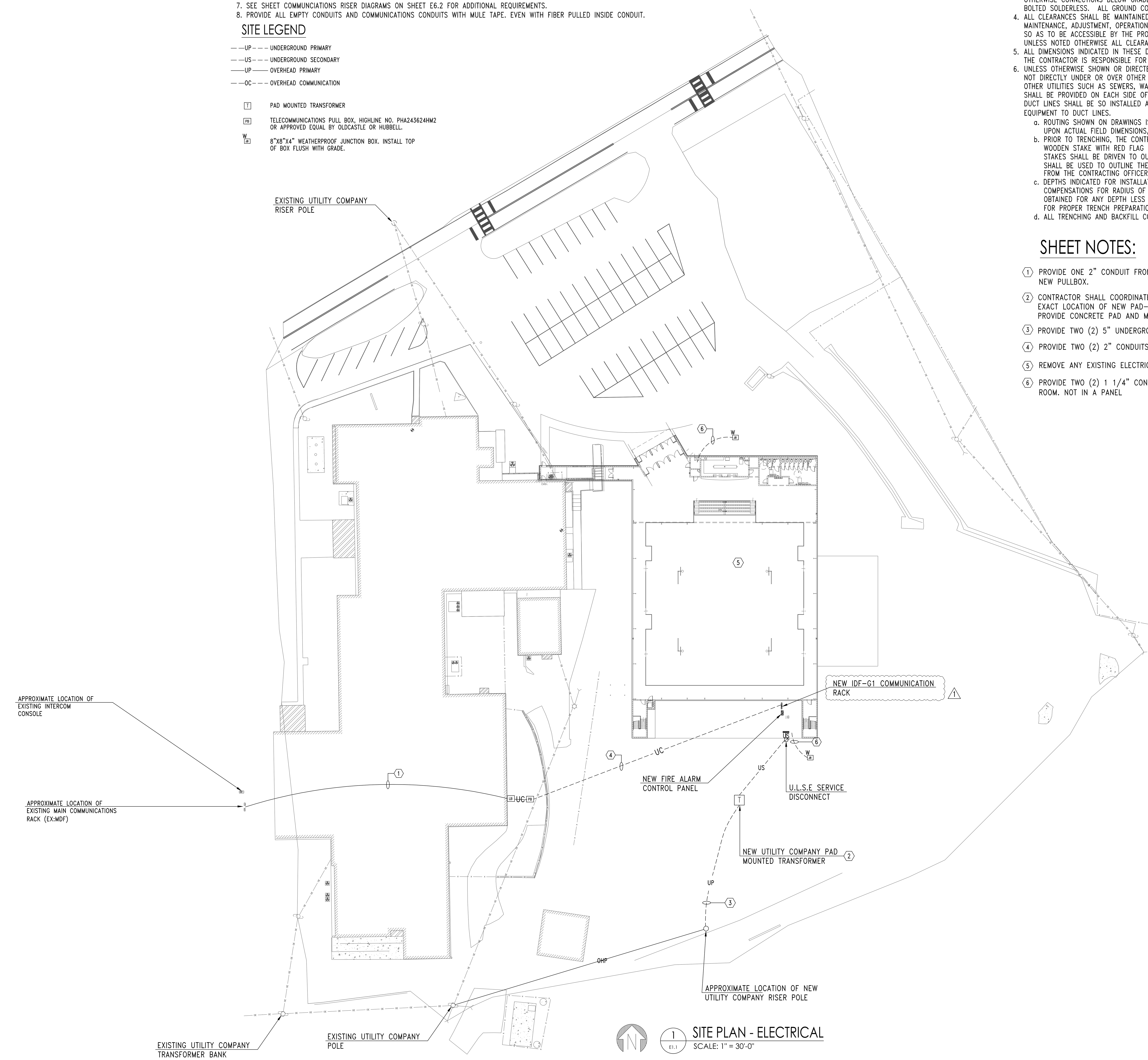
GENERAL NOTES:

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
4. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS HAND HOLES AND BACKBOARDS.
6. SEE SHEET E1.2 FOR TYPICAL TRENCH/DUCT DETAILS FOR ALL SURFACES. WORK SHALL COMPLY WITH DETAILS.
7. SEE SHEET COMMUNCIATIONS RISER DIAGRAMS ON SHEET E6.2 FOR ADDITIONAL REQUIREMENTS.
8. PROVIDE ALL EMPTY CONDUITS AND COMMUNICATIONS CONDUITS WITH MULE TAPE. EVEN WITH FIBER PULLED INSIDE CONDUIT.

SITE LEGEND

— —UP— — — UNDERGROUND PRIMARY
— —US— — — UNDERGROUND SECONDARY
——UP—— OVERHEAD PRIMARY
— —OC— — — OVERHEAD COMMUNICATION

T PAD MOUNTED TRANSFORMER
PB TELECOMMUNICATIONS PULL BOX, HIGHLINE NO. PHA243624HM2 OR APPROVED EQUAL BY OLDCASTLE OR HUBBELL.
W 8"X8"X4" WEATHERPROOF JUNCTION BOX. INSTALL TOP OF BOX FLUSH WITH GRADE.



1 SITE PLAN - ELECTRICAL
E1.1 SCALE: 1" = 30'-0"

SCALE: 1" = 30'-0"
30' 15' 0 30 60FT
GRAPHIC SCALE

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 (NESC) 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 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.
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 OFFICER 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 200.

SHEET NOTES:

1. PROVIDE ONE 2" CONDUIT FROM EXISTING MDF COMMUNICATION'S RACK IN MAIN OFFICE. LB OUT OF BUILDING INTO NEW PULLBOX.
2. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR EXACT STUB OUT FOR PRIMARY CONDUITS AND EXACT LOCATION OF NEW PAD-MOUNTED TRANSFORMER AND ADJUST PRIMARY AND SECONDARY LENGTHS ACCORDINGLY. PROVIDE CONCRETE PAD AND METERING PER ALABAMA POWER SPECIFICATIONS.
3. PROVIDE TWO (2) 5" UNDERGROUND CONDUITS FROM TRANSFORMER TO APCO RISER POLE.
4. PROVIDE TWO (2) 2" CONDUITS FROM NEW PULLBOX TO IDF-G1.
5. REMOVE ANY EXISTING ELECTRICAL AT BASEBALL FIELD TO MAKE WAY FOR NEW BUILDING.
6. PROVIDE TWO (2) 1 1/4" CONDUITS WITH PULLSRINGS FROM NEW JUNCTION BOX TO ELECTRICAL ROOM AND STUB IN ROOM. NOT IN A PANEL

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ALABAMA REGISTERED PROFESSIONAL ENGINEER KENNETH RAY GUNN JR. 09/27/2024

SHEET TITLE : SITE PLAN - ELECTRICAL

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE: 09.18.24

REVISED DATE: 09-27-2024 1

REVISED DATE:

REVISED DATE:

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Consulting Engineers
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1200 Providence Park, Suite 200 Birmingham, AL 35242
GA#24-180

SHEET NO. : E1.1

ROOM CONTROLLER NOTES:

1. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABLEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

PHOTOCONTROL OF LIGHTING:

1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

GENERAL NOTES:

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
3. SEE LIGHTING CONTROL DETAILS ON SHEET E2.2 FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES:

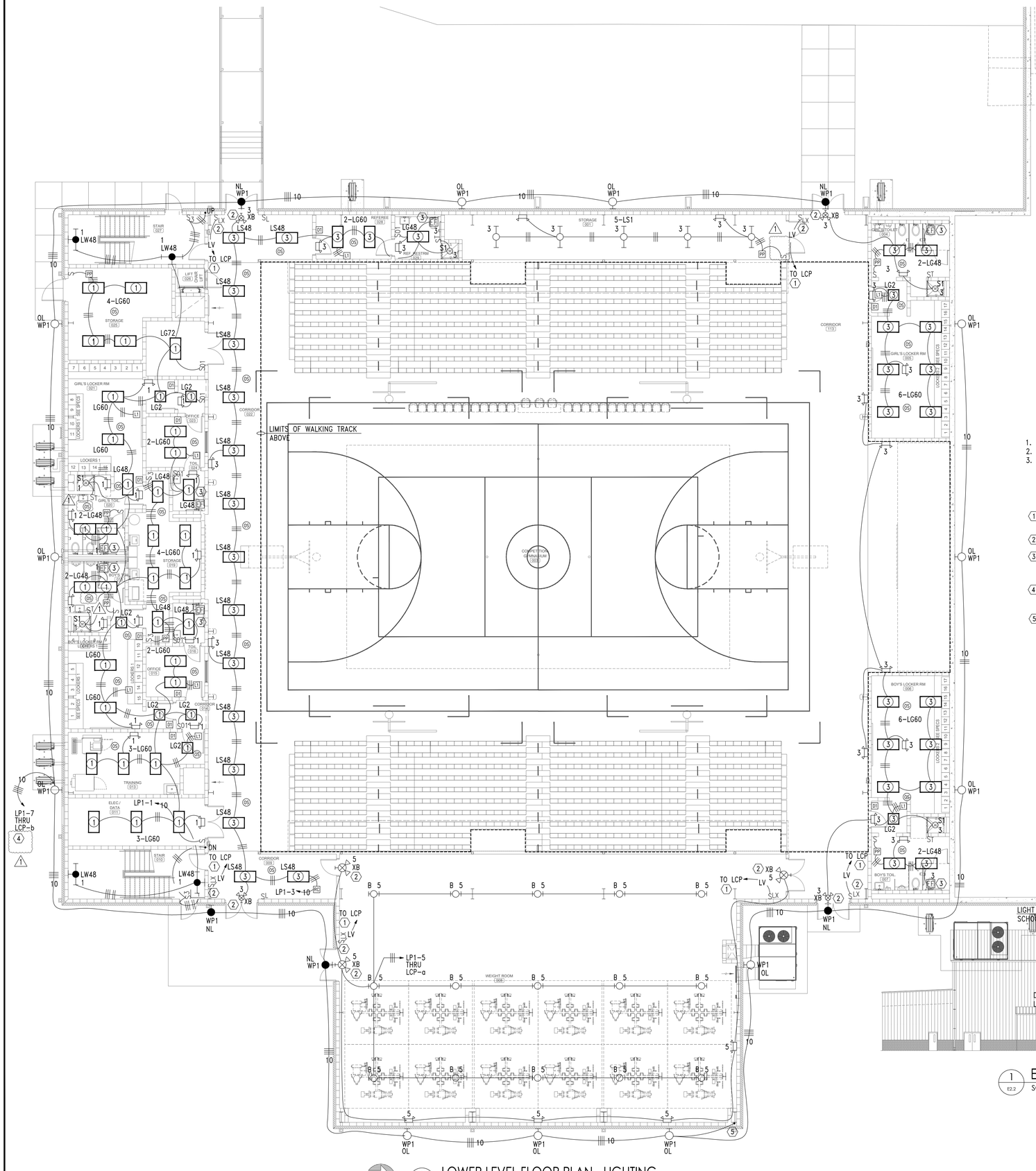
(1) PROVIDE LOW VOLTAGE CABLING FROM LOW VOLTAGE SWITCH TO THE LIGHTING CONTROL PANEL AS REQUIRED BY LIGHTING CONTROL PANEL MANUFACTURER.

(2) PROVIDE WIREGUARD FOR ALL EXIT SIGNS, EMERGENCY WALL PACKS, AND SWITCHES IN THIS AREA.

(3) PROVIDE INTERCONNECTING RELAY TRANSFORMER TO CONTROL 120V EXHAUST FAN ON/OFF BY THE 277 VOLT LIGHTING CIRCUIT IN THIS ROOM. TRANSFORMER SHALL BE 277V INPUT, 120V OUTPUT, 1,000 VA.

(4) CONTRACTOR SHALL SET ALL PROGRAMMABLE CONTROLS FOR "WP1 & D2" TYPE FIXTURES TO REDUCE LIGHT LEVELS TO THIRTY PERCENT (30 %) BETWEEN THE HOURS OF MIDNIGHT AND 6:00 AM IN THE MORNING.

(5) STUB UP FOR POWER ON SCHOOL SIGN AS REQUIRED.



1 E2.2 LOWER LEVEL FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"

1 E2.2 EAST ELEVATION PLAN - LIGHTING
SCALE: 1/16"=1'-0"

1/8" = 1'-0
8' 0 8 16 FT
GRAPHIC SCALE

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GA#24-180

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REGISTERED ARCHITECT KENNETH RAY MCKEE NO. 26985 PROFESSIONAL 09/27/2024 ALABAMA

SHEET TITLE : LOWER LEVEL FLOOR PLAI LIGHTING

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE: 09.18.24

REVISED DATE: 09-27-2024 (1)

REVISED DATE:

REVISED DATE:

SHEET NO. : E2.2

SHEET NOTES:

1. PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED. MAKE CONNECTIONS IF HAND DRYERS ARE PROVIDED.
2. CONTRACTOR SHALL PROVIDE (1) ONE NEW 20A/1P (42K AIC) CIRCUIT BREAKER IN EXISTING PANEL "MPA" AS REQUIRED.
3. TELESCOPING BLEACHER DRIVE, CONTROL SWITCH, CONTACTOR, AND LIMIT SWITCHES FURNISHED WITH DRIVE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE ALL PUSHBUTTON SWITCHES IN GYMNASIUM WITH PROTECTIVE WIRE GUARDS.
5. COORDINATE NEMA CONFIGURATION OF THE RECEPTACLE WITH OWNER'S EQUIPMENT AND PULL A NEUTRAL TO EACH EQUIPMENT.
6. HOOD, FANS, STARTERS, AND CONTROL PANEL ARE SUPPLIED BY THE FOOD SERVICE EQUIPMENT SUPPLIER. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL COMPONENTS WITH THE FOOD SERVICE EQUIPMENT SUPPLIER AND INSTALLER AND MAKE ALL NECESSARY POWER AND CONTROL CONNECTIONS. THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE HOOD FIRE SUPPRESSION SYSTEM SUCH THAT SYSTEM IS ACTIVATED. SHUNT TRIP CIRCUIT BREAKERS SERVING EQUIPMENT UNDER THE KITCHEN HOOD SHALL BE OPENED TO DE-ENERGIZE THE CIRCUITS UNDER THE HOOD WHEN THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED. INTERLOCK THE HOOD FIRE SUPPRESSION SYSTEM WITH THE FIRE ALARM SYSTEM.
7. COORDINATE EXACT ROUGH-IN LOCATION WITH TROPHY CASE PROVIDER. (revision 1)

GENERAL NOTES:

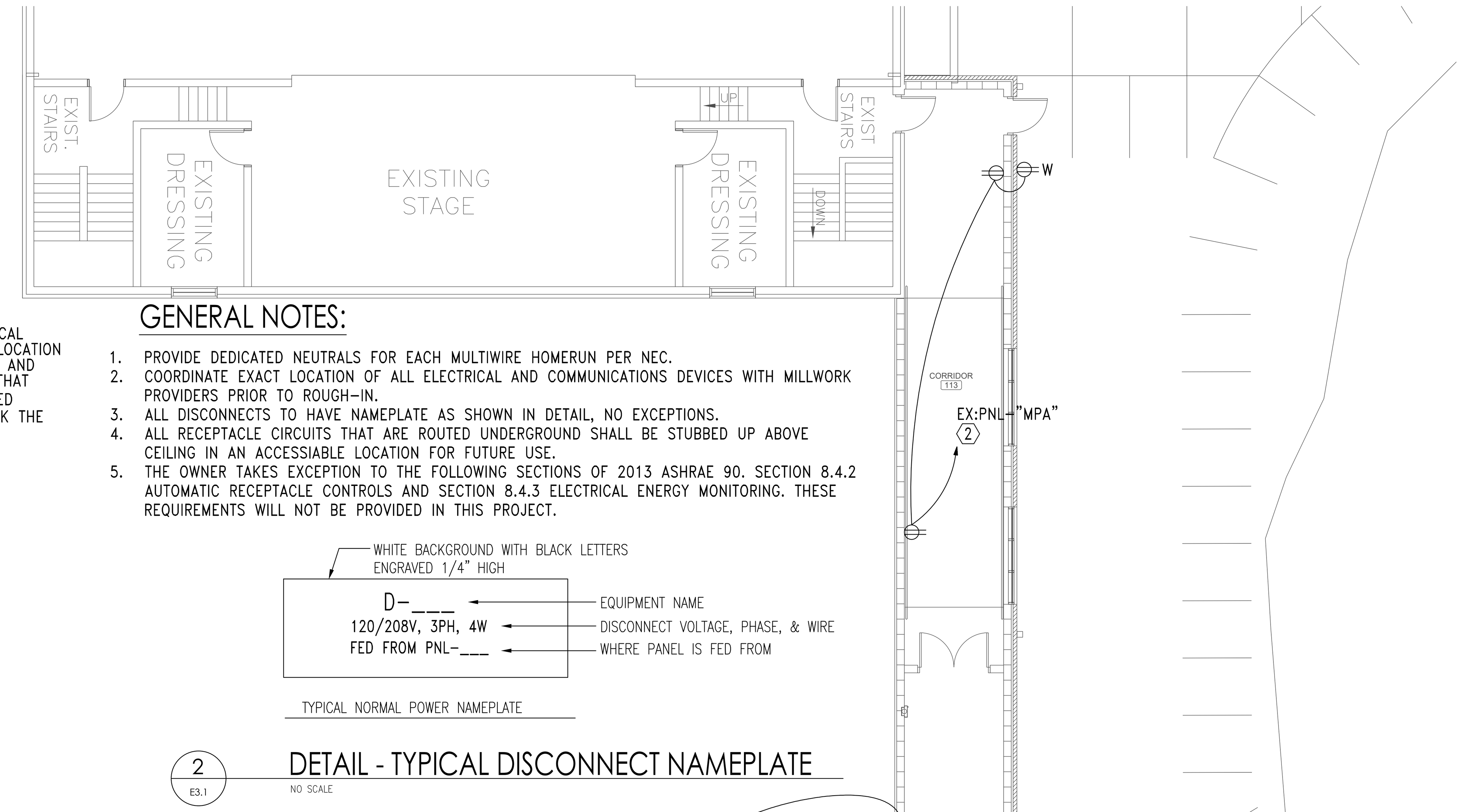
1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

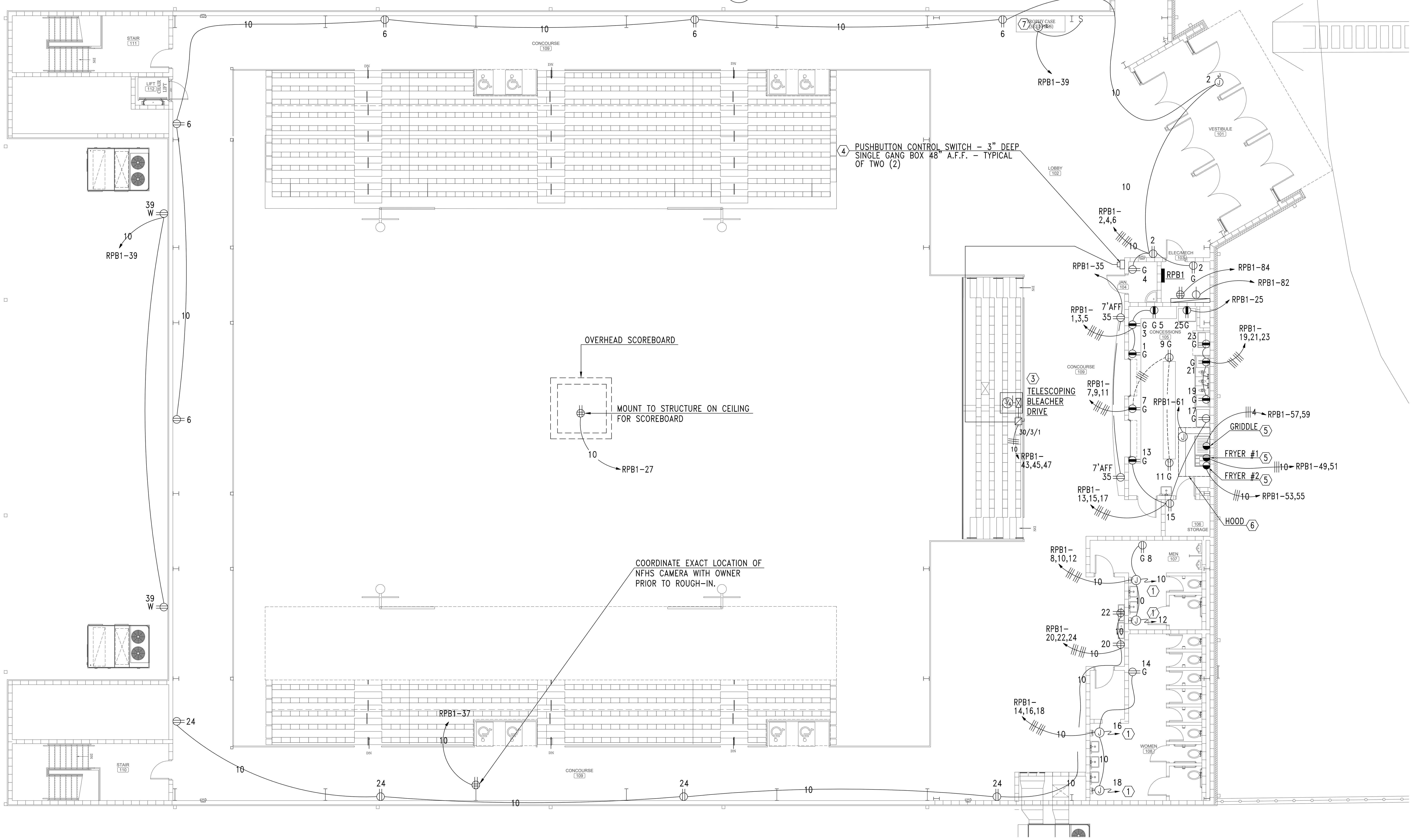
WHITE BACKGROUND WITH BLACK LETTERS ENGRAVED 1/4" HIGH

D-___ — EQUIPMENT NAME
120/208V, 3PH, 4W — DISCONNECT VOLTAGE, PHASE, & WIRE
FED FROM PNL-___ — WHERE PANEL IS FED FROM

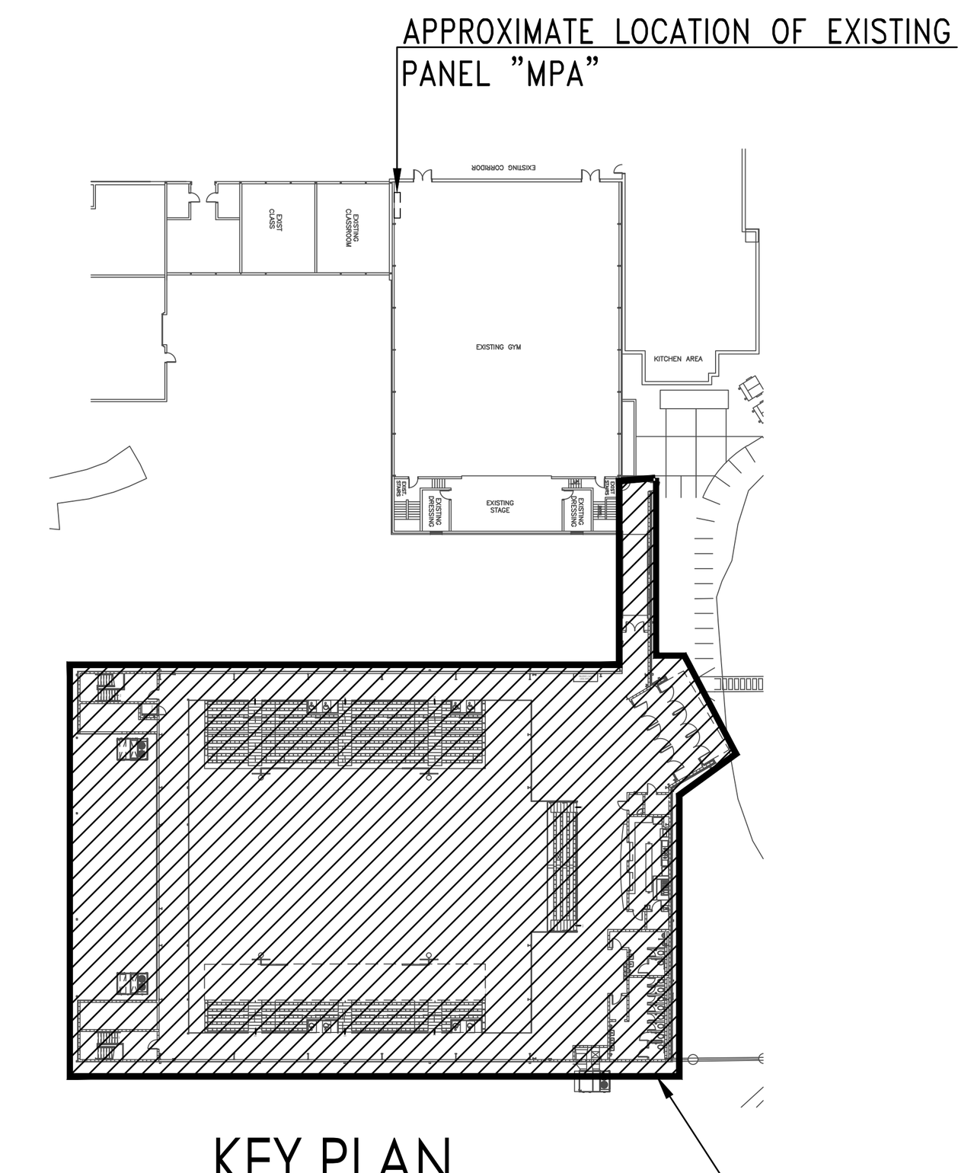
TYPICAL NORMAL POWER NAMEPLATE

2 (E3.1) DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE





1 (E3.1) MAIN LEVEL FLOOR PLAN - POWER
SCALE: 1/8"=1'-0"



KEY PLAN
NO SCALE

1/8" = 1'-0
GRAPHIC SCALE

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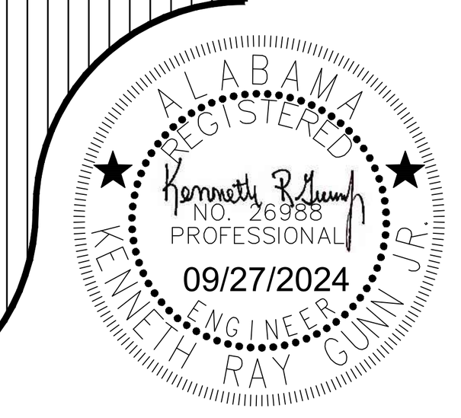

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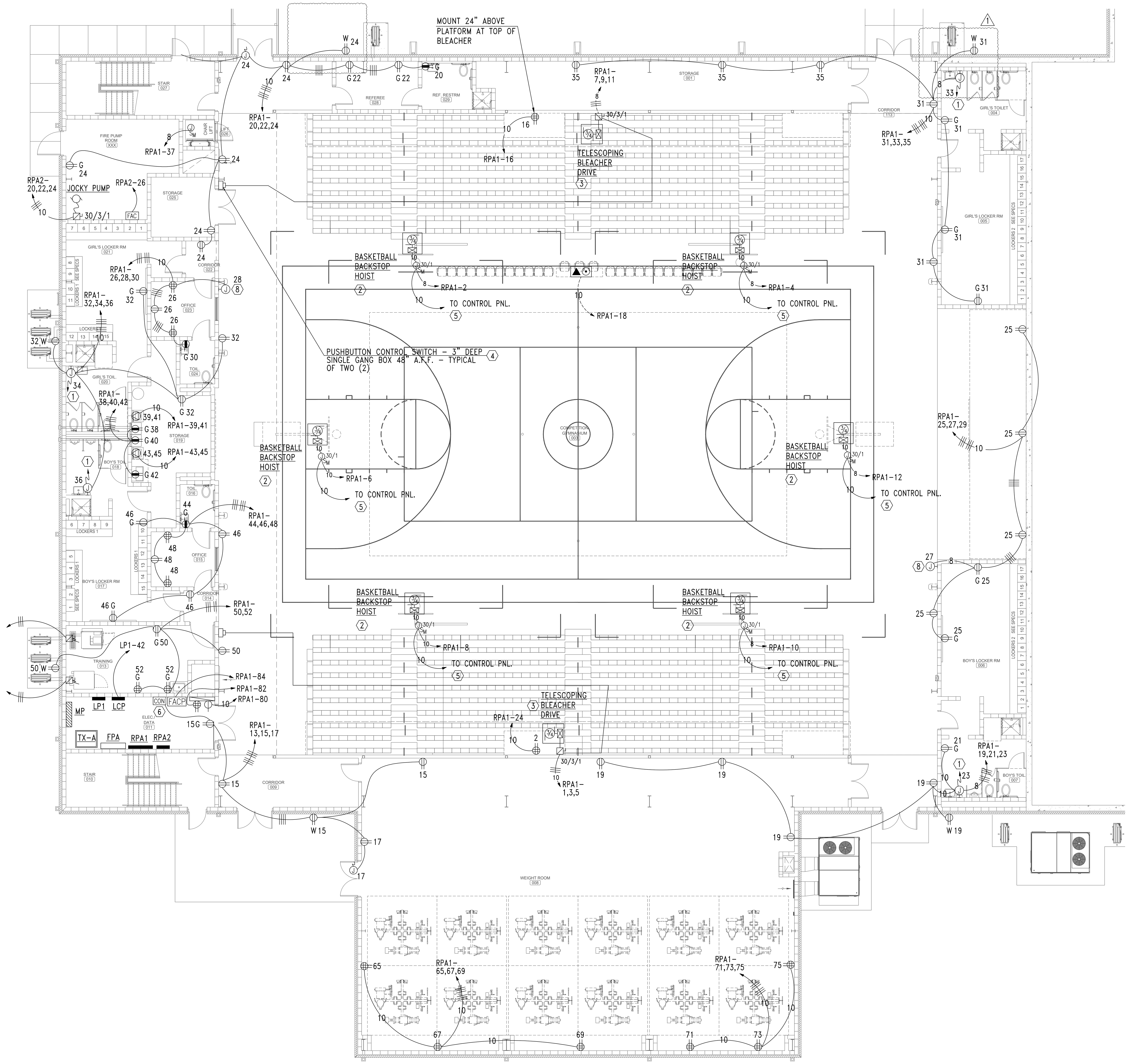
1200 Providence Park, Suite 200, Birmingham, AL 35242
GA#24-180

SHEET TITLE :	MAIN LEVEL FLOOR PLAN POWER
MCKEE JOB # :	24-169
DRAWN BY :	J. TILLERY
DATE:	09.18.24
REVISED DATE:	09-27-2024 (revision 1)
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	E3.1

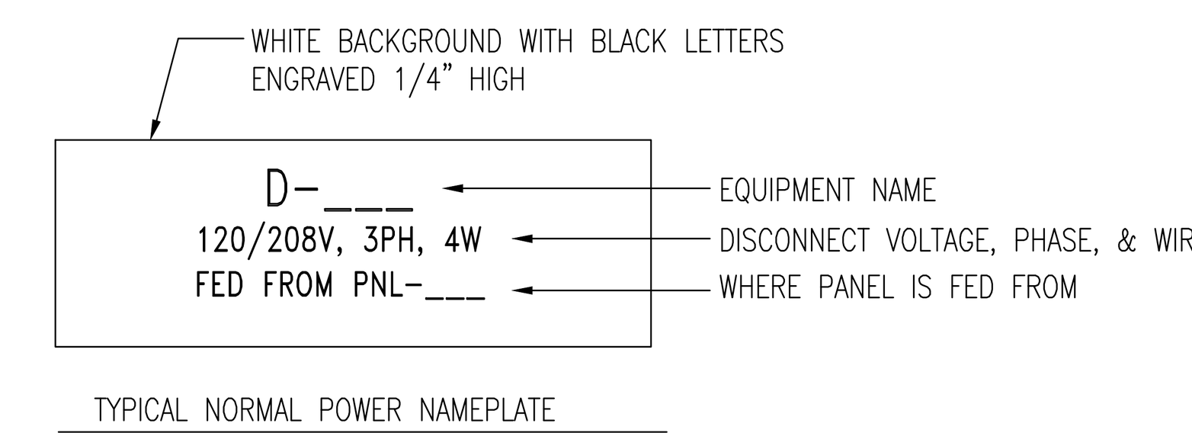
SHEET NOTES:

1. PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
2. BASKETBALL BACKSTOP HOIST, CONTROL SWITCH, AND LIMIT SWITCHES FURNISHED WITH HOIST. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
3. TELESCOPING BLEACHER DRIVE, CONTROL SWITCH, CONTACTOR, AND LIMIT SWITCHES FURNISHED WITH DRIVE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE ALL PUSHBUTTON SWITCHES IN GYMNASIUM WITH PROTECTIVE WIRE GUARDS.
5. CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO BASKETBALL HOIST CONTROL PANEL.
6. CONTRACTOR SHALL VERIFY EXACT LOCATION OF CONTROL PANEL WITH BASKETBALL HOIST PROVIDER PRIOR TO ROUGH-IN. ADJUST LOCATION AS REQUIRED ALONG WITH ALL CONDUIT AND POWER REQUIRED.
7. COORDINATE EXACT ROUGH-IN LOCATION WITH TROPHY CASE PROVIDER.
8. APPROXIMATE LOCATION OF SHOT CLOCK. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ROUGH IN. COORDINATE EXACT LOCATION OF SWITCH FOR SHOT CLOCK WITH OWNER PRIOR TO ROUGH IN.



GENERAL NOTES:

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.



2 E3.2 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

1 E3.2 LOWER LEVEL FLOOR PLAN - POWER
SCALE: 1/8"=1'-0"

1/8" = 1'-0
GRAPHIC SCALE

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KENNETH RAY GUNN JR. — PROFESSIONAL ENGINEER — ALABAMA — 09/27/2024

SHEET TITLE: LOWER LEVEL FLOOR PLAN POWER

MCKEE JOB #: 24-169

DRAWN BY: J. TILLERY

DATE: 09.18.24

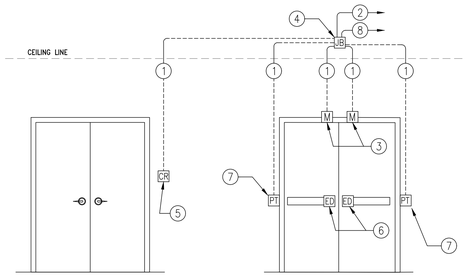
REVISED DATE: 09-27-2024

REVISED DATE:

REVISED DATE:

SHEET NO.: E3.2

CONTRACTOR SHALL COORDINATE CONDUIT ROUGH-IN LOCATIONS WITH OWNER'S ACCESS CONTROL VENDOR PRIOR TO ROUGH-IN OF DOORS AND ADJUST CONDUIT AS NEEDED.



DOOR/SECURITY/ACCESS HARDWARE KEY

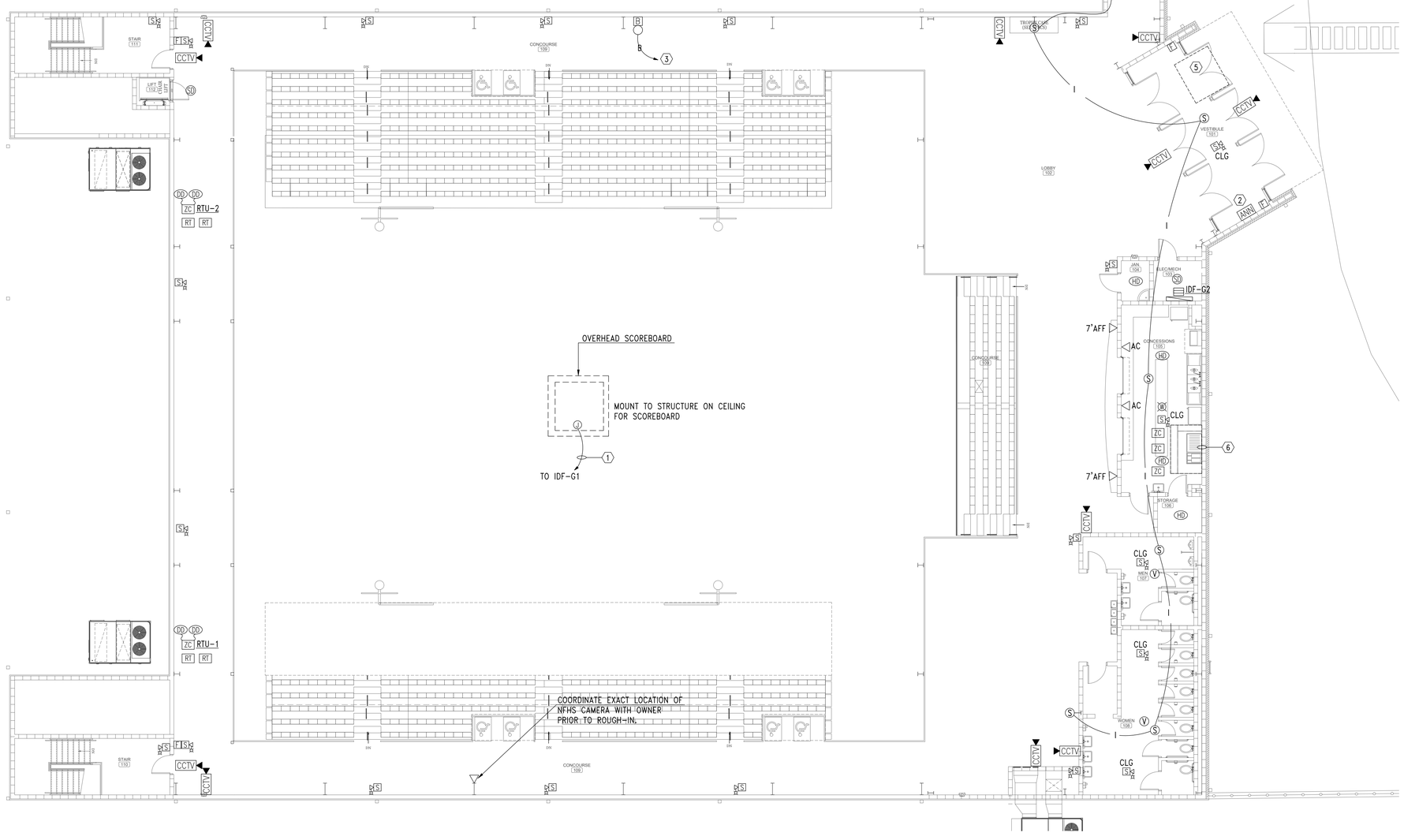
1. 3/4" CONDUIT TO JUNCTION BOX.
2. 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING.
3. RECESSED DOOR POSITION SWITCH. FRAME TO BE PREPPED BY DOOR SUPPLIER.
4. 4 SQUARE JUNCTION BOX MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.
5. CARD READER. OWNER PROVIDED DEVICE CONTRACTOR PROVIDES RACEWAY SINGLE GANG JUNCTION BOX MOUNTED 48" A.F.F.
6. EXIT DEVICE WITH LATCH RETRACTION AND INTEGRAL REQUEST - TO - EXIT SWITCH.
7. POWER TRANSFER HINGE. (BY OTHERS). RACEWAY BY CONTRACTOR
8. PROVIDE (1) CAT 6 CONNECTION BACK TO NEAREST IDF WITH 20' SLACK AT DOOR.

1

A E4.1 TYPICAL DOOR TYPE "A"
NO SCALE

SHEET NOTES:

1. PROVIDE TWO (2) 1 1/4" CONDUITS WITH PULL STRING TO IDF-G1.
2. PROVIDE FLUSH MOUNTING FOR ANNUNCIATOR.
3. CONNECT NEW CLASSBELL TO THE LATHEM BELL SYSTEM IN MAIN OFFICE. PROVIDE 120V CONNECTION FROM NEAREST RECEPTACLE.
4. CONTRACTOR SHALL CONNECT NEW INTERCOM SPEAKERS BACK TO EXISTING TELECENTER INTERCOM CONSOLE. SEE 1/E1.1 FOR APPROXIMATE LOCATION FOR INTERCOM CONSOLE.
5. ROUGH-IN SECURITY DOOR PER DETAIL A SHEET E4.1.
6. HOOD, FANS, STARTERS AND CONTROL PANEL ARE SUPPLIED BY THE FOOD SERVICE ELECTRICAL SUPPLIER. ALL ELECTRICAL COMPONENTS (INCLUDING THE SHUNT TRIP CIRCUIT BREAKERS FEEDING THE KITCHEN EQUIPMENT) SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL COMPONENTS WITH THE FOOD SERVICE EQUIPMENT SUPPLIER AND INSTALLER AND MAKE NECESSARY POWER AND CONTROL CONNECTIONS. THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE HOOD FIRE SUPPRESS SYSTEM SUCH THAT THE FAN RUNS WHEN THE SUPPRESSION SYSTEM IS ACTIVATED. THE SUPPLY AIR FAN SHALL BE SHUT DOWN WHEN THE SUPPRESSION SYSTEM IS ACTIVATED. SHUNT TRIP CIRCUIT BREAKER SERVING (THE CIRCUITS UNDER THE HOOD WHEN THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED SHALL BE DE-ENERGIZED). INTERLOCK THE HOOD FIRE SUPPRESSION SYSTEM WITH THE FIRE ALARM SYSTEM.



1 E4.1 MAIN LEVEL FLOOR PLAN - AUXILIARY
SCALE: 1/8"=1'-0"

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ALABAMA REGISTERED PROFESSIONAL Kenneth Ray Kinney 09/27/2024

SHEET TITLE : MAIN LEVEL FLOOR PLAN AUXILIARY

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE: 09.18.24

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1200 Providence Park, Suite 200, Birmingham, AL 35242, GA#24-180

SHEET NO. : E4.1

SHEET NOTES:

1. PROVIDE WIREGUARD FOR ALL FIRE ALARM & SPEAKER DEVICES IN GYMNASIUM, LOCKER ROOM & WEIGHT ROOM AREAS.
2. PROVIDE FIRE ALARM CONTROL MODULE TO MUTE SOUND SYSTEM UPON ACTIVATION FROM FIRE ALARM SYSTEM.
3. CONNECT NEW CLASSBELL TO THE LATHEM BELL SYSTEM IN MAIN OFFICE. PROVIDE 120V CONNECTION FROM NEAREST RECEPTACLE.

[redacted] OMIT

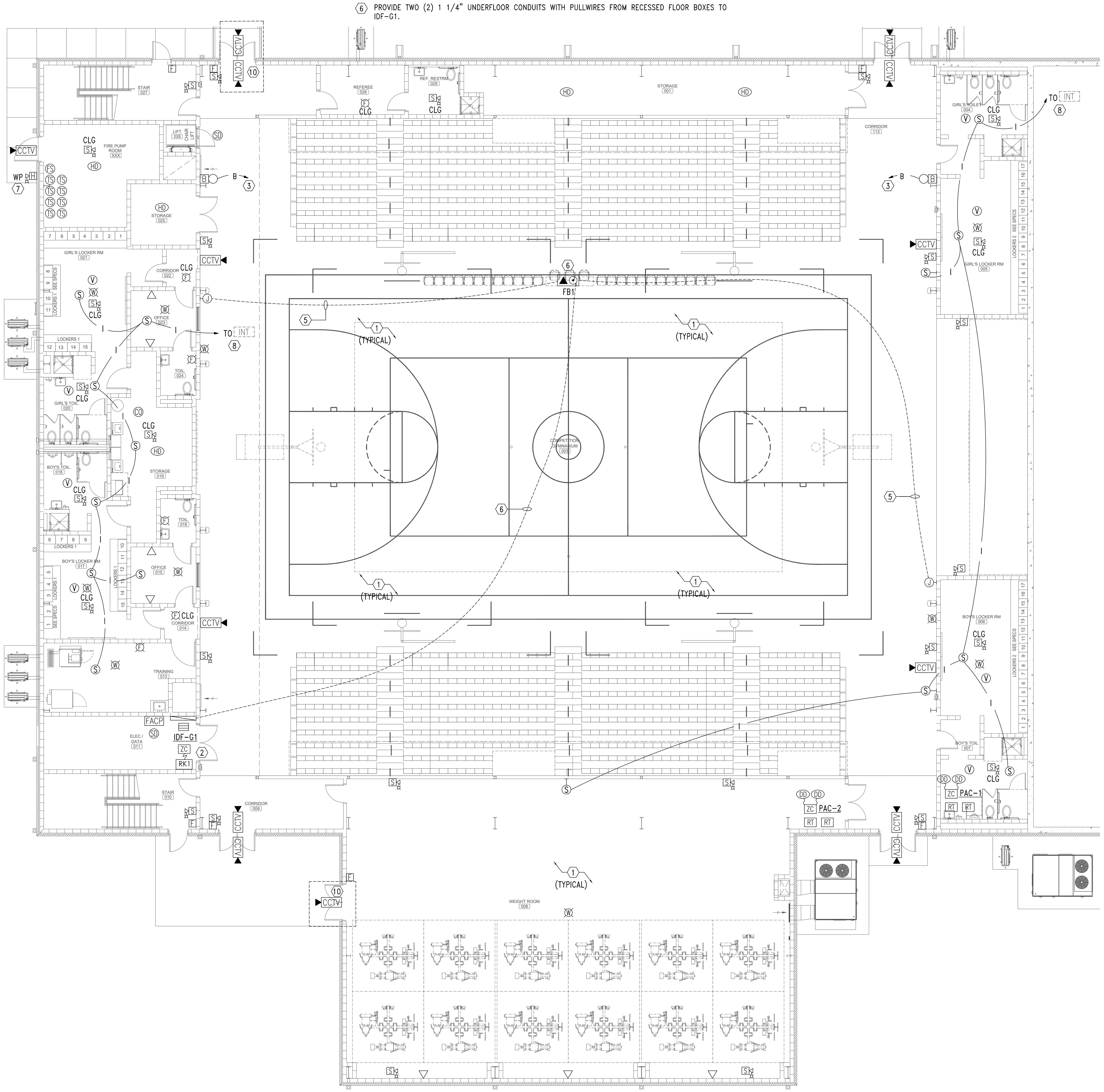
5. PROVIDE 1 1/4" UNDERFLOOR CONDUIT WITH PULLWIRES FROM RECESSED FLOOR BOXES TO WALL MOUNTED JUNCTION BOXES AS SHOWN.
6. PROVIDE TWO (2) 1 1/4" UNDERFLOOR CONDUITS WITH PULLWIRES FROM RECESSED FLOOR BOXES TO IDF-G1.
7. CONTRACTOR SHALL CONNECT NEW FIRE ALARM DEVICES TO EXISTING NOTIFIER TYPE FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL EXPAND EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. CONTRACTOR SHALL TEST AND CERTIFY EXISTING SYSTEM UPON COMPLETION OF NEW WORK.
8. CONTRACTOR SHALL CONNECT NEW INTERCOM SPEAKERS BACK TO EXISTING DUKANE INTERCOM CONSOLE. SEE 1/E1.1 FOR APPROXIMATE LOCATION FOR INTERCOM CONSOLE.

[redacted] OMIT

10. ROUGH-IN SECURITY DOOR PER DETAIL A SHEET E4.1.

GENERAL NOTES:

1. COORDINATE WITH CORRESPONDING RISER DIAGRAMS.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. PROVIDE ALL MOUNTING ACCESSORIES AS NEEDED TO MOUNT SPEAKERS AT LOCATIONS SHOWN.
4. PROVIDE A GREEN DOT STICKER ON THE CEILING GRID UNDER EACH WIRELESS ACCESS POINT LOCATION TO SHOW LOCATION TO THE IT STAFF. PROVIDE AT LEAST 15' OF COILED CAT6 SLACK AT EACH WIRELESS ACCESS POINT.
5. CONTRACTOR SHALL UTILIZE NEW CONDUITS PROVIDED ON SITE PLAN TO BRING NEW CABLING FROM EXISTING HIKVISION CCTV CONSOLE SYSTEM AND LB INTO NEW GYM BUILDING AS REQUIRED FOR FUTURE CCTV.
6. CONTRACTOR SHALL CONNECT ALL FIRE ALARM DEVICES TO EXISTING NOTIFIER TYPE FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL EXPAND EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. CONTRACTOR SHALL TEST AND CERTIFY EXISTING SYSTEM UPON COMPLETION OF NEW WORK.



1 E4.2 LOWER LEVEL FLOOR PLAN - AUXILIARY
SCALE: 1/8"=1'-0"

1/8" = 1'-0
8' 0 8 16 FT
GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14, Millbrook, AL 36054, Tel: 334.285.1273
1200 Providence Park, Suite 200, Birmingham, AL 35242
GA#24-180

NEW GYMNASIUM AT APPALACHIAN SCHOOL
FOR THE
BLOUNT COUNTY BOARD OF EDUCATION
ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE: LOWER LEVEL FLOOR PLAN AUXILIARY

MCKEE JOB #: 24-169

DRAWN BY: J. TILLERY

DATE: 09.18.24

REVISED DATE: 09-27-2024 (1)

REVISED DATE:

REVISED DATE:

SHEET NO.: E4.2

PANEL - MP

TYPE: 1000 AMP MAIN LUG	AIC: 65,000 AMPERES	MOUNTED: SURFACE	VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
PANEL LP1	12,010			125		1	2	175		52,283			RTU-1
		7,525				3	4				52,283		
			6,477		3	5	6		3			52,283	
PAC-1	27,257			125		7	8	175		52,283			RTU-2
		27,257				9	10				52,283		
			27,257		3	11	12		3			52,283	
PAC-2	21,495			100		13	14	300		74,832			TX-A
		21,495				15	16				74,132		
			21,495		3	17	18		3			77,469	
SPARE				225		19	20	225					BUSSED SPACE
						21	22						
					3	23	24		3				
SPARE				100		25	26	100					BUSSED SPACE
						27	28						
					3	29	30		3				
BUSSED SPACE				125		31	32	125					BUSSED SPACE
						33	34						
					3	35	36		3				
SUB TOTAL (VA)	60,762	56,277	55,229							179,398	178,698	182,035	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 240,160 (VA)
TOTAL LOAD PHASE B: 234,975 (VA)
TOTAL LOAD PHASE C: 237,264 (VA)
TOTAL LOAD: 712,399 (VA) = 857 AMPS

NOTES:
1. PROVIDE WITH INTEGRAL TVSS WITH 120,000 AMPS PER MODE PROTECTION.
2. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAIL.
3. PROVIDE ARC FAULT LABEL PER DETAIL.
4. PROVIDE (GFI) SHUNT TRIP MAIN CIRCUIT BREAKER.

PANEL - LP1

TYPE: 125 AMP MAIN LUG	AIC: 65,000 AMPERES	MOUNTED: SURFACE	VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
LIGHTS	3,253			20	1	1	2	20	1	3,710			GYM LIGHTS
LIGHTS		3,480		20	1	3	4	20	1		3,710		GYM LIGHTS
WEIGHT ROOM LGHTS			2,167	20	1	5	6	20	1			3,710	GYM LIGHTS
EXTERIOR LIGHTS	1,475			20	1	7	8	20	1	3,572			WALKING TRACK LTS
EXTERIOR LIGHTS		335		20	1	9	10						BUSSED SPARE
SPARE				20	1	11	12						BUSSED SPARE
SPARE				20	1	13	14						BUSSED SPARE
SPARE				20	1	15	16						BUSSED SPARE
SPARE				20	1	17	18						BUSSED SPARE
SPARE				20	1	19	20						BUSSED SPARE
SPARE				20	1	21	22						BUSSED SPARE
SPARE				20	1	23	24						BUSSED SPARE
SPARE				20	1	25	26						BUSSED SPARE
SPARE				20	1	27	28						BUSSED SPARE
SPARE				20	1	29	30						BUSSED SPARE
SPARE				20	1	31	32						BUSSED SPARE
SPARE				20	1	33	34						BUSSED SPARE
SPARE				20	1	35	36						BUSSED SPARE
SPARE				20	1	37	38						BUSSED SPARE
SPARE				20	1	39	40						BUSSED SPARE
SPARE				20	1	41	42	20	1			600	LCP
SUB TOTAL (VA)	4,728	3,815	2,167							7,282	3,710	4,310	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 12,010 (VA)
TOTAL LOAD PHASE B: 7,525 (VA)
TOTAL LOAD PHASE C: 6,477 (VA)
TOTAL LOAD: 26,012 (VA) = 31 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

PANEL - FPA

TYPE: 800 AMP MAIN CIRCUIIT BREAKER	AIC: 22,000 AMPERES	MOUNTED: SURFACE	VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
PANEL RPA1	41,467			400		1	2	225		21,661			PANEL RPB1
		37,107				3	4				28,464		
			37,614		3	5	6		3			23,737	
PANEL RPA2	11,704			225		7	8	225					SPARE
		8,561				9	10						
			11,118		3	11	12		3				
BUSSED SPACE				225		13	14	100					SPARE
						15	16						
					3	17	18		3				
SPARE				100		19	20	100					BUSSED SPACE
						21	22						
					3	23	24		3				
BUSSED SPACE				100		19	20	100					BUSSED SPACE
						21	22						
			5,000		3	23	24		3				
SUB TOTAL (VA)	53,171	45,668	53,732							21,661	28,464	23,737	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 74,832 (VA)
TOTAL LOAD PHASE B: 74,132 (VA)
TOTAL LOAD PHASE C: 77,469 (VA)
TOTAL LOAD: 226,433 (VA) = 629 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

PANEL - RPA2

TYPE: 225 AMP MAIN LUG	AIC: 22,000 AMPERES	MOUNTED: SURFACE	VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
EUH-1	1,000			20		1	2	20		153			IDHP-2-1, 2-2
		1,000				3	4		2		153		
			1,000		3	5	6	20				200	IDHP-4-1, 4-2, 4-3
EUH-2	1,000			20		7	8		2	200			
		1,000				9	10	20			153		IDHP-6-1, 6-2
			1,000		3	11	12		2			153	
EUH-3	1,666			30		13	14	20		153			IDHP-7-1,7-2
		1,666				15	16		2		153		
			1,666		3	17	18	20	1				SPARE
ODHP-7	1,913			30		19	20	20		443			JOCKY PUMP
		1,913			2	21	22				443		
ODHP-8			4,576	90		23	24		3			443	
	4,576				2	25	26	20	1	600			FIRE ALAM PUMP CONT
ODHP-9		2,080		40		27	28						BUSSED SPACE
			2,080		2	29	30						BUSSED SPACE
SPARE				20	1	31	32						BUSSED SPACE
SPARE				20	1	33	34						BUSSED SPACE
SPARE				20	1	35	36						BUSSED SPACE
SPARE				20	1	37	38						BUSSED SPACE
SPARE				20	1	39	40						BUSSED SPACE
SPARE				20	1	41	42						BUSSED SPACE
SUB TOTAL (VA)	10,155	7,659	10,322							1,549	902	796	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 11,704 (VA)
TOTAL LOAD PHASE B: 8,561 (VA)
TOTAL LOAD PHASE C: 11,118 (VA)
TOTAL LOAD: 31,383 (VA) = 87 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

PANEL - RPA1

TYPE: 400 AMP MAIN LUG	AIC: 22,000 AMPERES	MOUNTED: SURFACE	VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
TELE. BLEACHER	2,880			30		1	2	30	1	2,880			B.B. HOIST
		2,880				3	4	30	1		2,880		B.B. HOIST
			2,880		3	5	6	30	1			2,880	B.B. HOIST
TELE. BLEACHER	2,880			30		7	8	30	1	2,880			B.B. HOIST
		2,880				9	10	30	1		2,880		B.B. HOIST
			2,880		3	11	12	30	1			2,880	B.B. HOIST
B.B HOIST CON.	600			20	1	13	14	20	1	1,200			PLAT FORM RECEPTACLE
RECEPTACLE		1,200		20	1	15	16	20	1		1,200		PLAT FORM RECEPTACLE
RECEPTACLE			1,200	20	1	17	18	20	1			1,200	SCORE TABLE
RECEPTACLE	1,200			20	1	19	20	20	1	1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	21	22	20	1		1,200		RECEPTACLE
HAND DRYER			1,300	20	1	23	24	20	1			1,200	RECEPTACLE
RECEPTACLE	1,200			20	1	25	26	20	1	1,200			RECEPTACLE
CLOCK SHOT		1,200		20	1	27	28	20	1		1,200		RECEPTACLE
TROPHY CASE LTS			900	20	1	29	30	20	1			1,300	RECEPTACLE
RECEPTACLE	1,200			20	1	31	32	20	1	1,300			HAND DRYER
HAND DRYER		1,300		20	1	33	34	20	1		1,200		HAND DRYER
RECEPTACLE			1,200	20	1	35	36	20	1			1,200	RECEPTACLE
CHAIR LIFT	2,880			30	1	37	38	20	1	1,300			WASHER
DRYER		2,880		30		39	40	20	1		1,200		WASHER
			2,880		2	41	42	20	1			1,200	ICE MACHINE
SPARE				20	1	43	44	20	1	1,200			RECEPTACLE
SPARE				20	1	45	46	20	1		1,200		RECEPTACLE
SPARE				20	1	47	48	20	1			1,300	RECEPTACLE
SPARE				20	1	49	50	20	1	1,200			RECEPTACLE
SPARE				20	1	51	52	20	1		1,200		RECEPTACLE
SPARE				20	1	53	54	20				749	ODHP-A1
EF-1,2,3,4	400			20	1	55	56		2	749			
EF-5,6,7,8,		400		20	1	57	58	30			1,913		ODHP-A2
SEF-1 & SEF-2			144	20	1	59	60		2			1,913	
WH-1 GAS	600			20	1	61	62	20		749			ODHP-A3
CP-1 & TC-1		600		20	1	63	64		2		749		
RECEPTACLE			1,200	20	1	65	66	90				4,576	ODHP-A4
RECEPTACLE	1,200			20	1	67	68		2	4,576			
RECEPTACLE		1,200		20	1	69	70	20			832		ODHP-A5
RECEPTACLE			1,200	20	1	71	72		2			832	
RECEPTACLE	1,200			20	1	73	74	30		1,913			ODHP-A6
RECEPTACLE		1,200		20	1	75	76		2		1,913		
SPARE				20	1	77	78	20	1				SPARE
SPARE				20	1	79	80	30	1	2,880			TBB UPS
SPARE				20	1	81	82	20	1		600		TBB
SPARE				20	1	83	84	20	1			600	FACP (NOTE 3)
SUB TOTAL (VA)	16,240	16,940	15,784							25,227	20,167	21,830	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 41,467 (VA)
TOTAL LOAD PHASE B: 37,107 (VA)
TOTAL LOAD PHASE C: 37,614 (VA)
TOTAL LOAD: 116,188 (VA) = 323 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.
3. PROVIDE LOCK HANDLE CIRCUIT BREAKER.

PANEL - RPB1

TYPE: 225 AMP MAIN LUG	AIC: 22,000 AMPERES	MOUNTED: SURFACE	VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

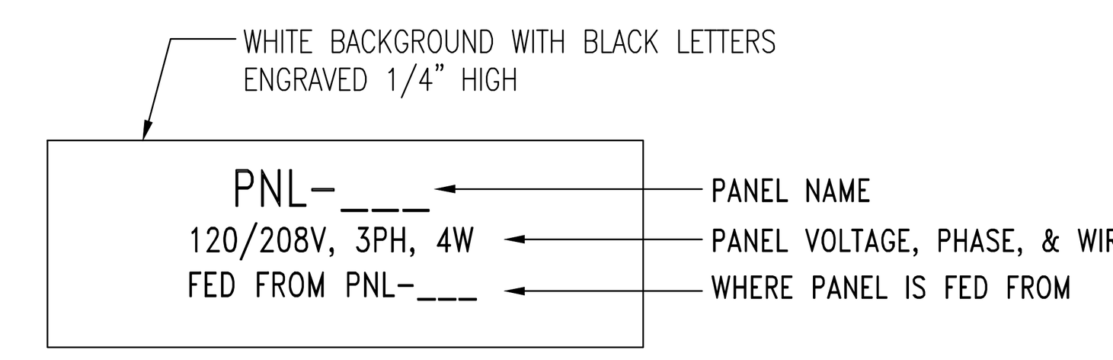
CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
RECEPTACLE	1,200			20	1	1	2	20	1	1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	3	4	20	1		1,200		RECEPTACLE
RECEPTACLE			1,200	20	1	5	6	20	1			1,200	RECEPTACLE
RECEPTACLE	1,200			20	1	7	8	20	1	1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	9	10	20	1		1,300		HAND DRYER
RECEPTACLE			1,200	20	1	11	12	20	1			1,300	HAND DRYER
RECEPTACLE	1,200			20	1	13	14	20	1	1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	15	16	20	1		1,300		HAND DRYER
RECEPTACLE			1,200	20	1	17	18	20	1			1,300	HAND DRYER
RECEPTACLE	1,200			20	1	19	20	20	1	900			EWC
RECEPTACLE		1,200		20	1	21	22	20	1		900		EWC
RECEPTACLE			1,200	20	1	23	24	20	1			1,200	RECEPTACLE
RECEPTACLE	1,200			20	1	25	26	40		3,000			WH-2
SCOREBOARD		1,400		20	1	27	28		2		3,000		
IDHP-8-1, 8-2			153	20		29	30	20	1			600	CP-2 & TC-2
	153				2	31	32						BUSSED SPACE
EF-9,10,11,12		300		20	1	33	34						BUSSED SPACE
RECEPTACLE			1,200	20	1	35	36						BUSSED SPACE
CAMERA RECEPTACLE	1,200			20	1	37	38						BUSSED SPACE
TROPHY CASE		600		20	1	39	40						BUSSED SPACE
SPARE				20	1	41	42						BUSSED SPACE
TELE. BLEACHER	2,880			30		43	44						BUSSED SPACE
		2,880				45	46						BUSSED SPACE
			2,880		3	47	48						BUSSED SPACE
FRYER #1	1,664			20		49	50						BUSSED SPACE
(NOTES #3 & #4)		1,664			2	51	52						BUSSED SPACE
FRYER #2			1,664	20		53	54						BUSSED SPACE
(NOTES #3 & #4)	1,664				2	55	56						BUSSED SPACE
GRIDDLE		6,240		60		57	58						BUSSED SPACE
(NOTE 3)			6,240		2	59	60						BUSSED SPACE
HOOD #1 (NOTES #3,#4)	600			20	1	61	62						BUSSED SPACE
SPARE				20	1	63	64						BUSSED SPACE
SPARE				20	1	65	66						BUSSED SPACE
SPARE				20	1	67	68						BUSSED SPACE
SPARE				20	1	69	70						BUSSED SPACE
SPARE				20	1	71	72						BUSSED SPACE
SPARE				20	1	73	74						BUSSED SPACE
SPARE				20	1	75	76						BUSSED SPACE
SPARE				20	1	77	78						BUSSED SPACE
SPARE				20	1	79	80						BUSSED SPACE
SPARE				20	1	81	82	30	1		2,880		TBB UPS
SPARE				20	1	83	84	20	1			1,200	TBB
SUB TOTAL (VA)	14,161	17,884	16,937							7,500	10,580	6,800	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 21,661 (VA)
TOTAL LOAD PHASE B: 28,464 (VA)
TOTAL LOAD PHASE C: 23,737 (VA)
TOTAL LOAD: 73,862 (VA) = 205 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.
3. PROVIDE SHUNT TRIP CIRCUIT BREAKER.
4. PROVIDE GFCI TYPE CIRCUIT BREAKER.

PANELBOARD NOTES:

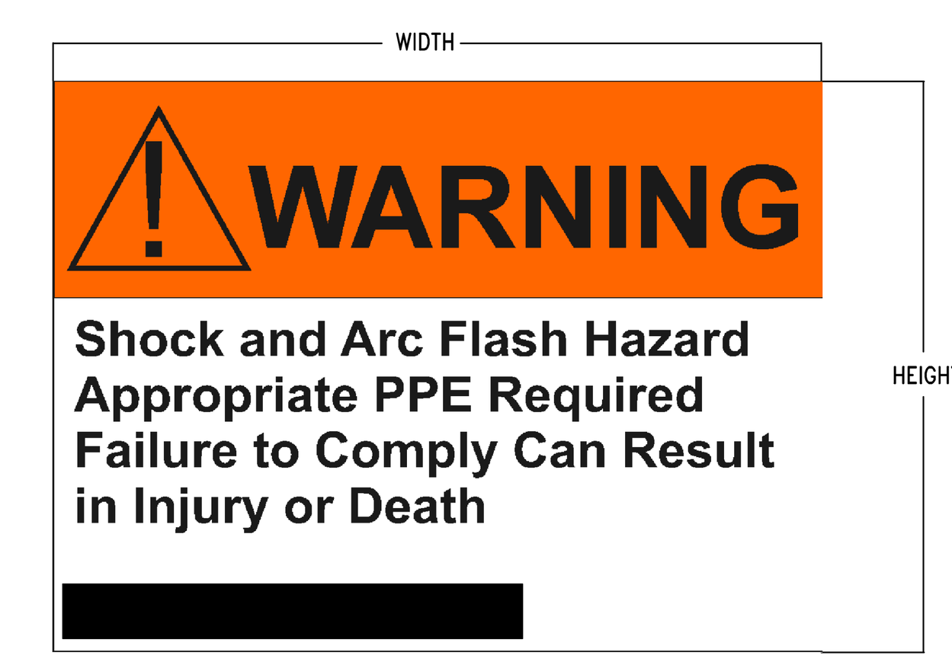
1. PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. 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.
6. 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.
7. ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
8. PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
9. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
10. ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
11. 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.
12. 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.
13. 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.



TYPICAL NORMAL POWER NAMEPLATE

1 / E5.2 — DETAIL - TYPICAL PANELBOARD NAMEPLATE

NO SCALE



NOTES:
1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	4"	6"
OUTDOOR	4"	6"

2 / E5.2 — ARC FLASH WARNING LABELS

NO SCALE

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

Gunn & Associates, P.C.
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3102 Highway 14, Millbrook, AL 36054, Tel: 334.285.1273
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ALABAMA REGISTERED PROFESSIONAL ENGINEER — KENNETH RAY GUNN JR. — 09/27/2024

SHEET TITLE: PANELBOARD SCHEDULE, DETAILS & NOTES

MCKEE JOB #: 24-169

DRAWN BY: J. TILLERY

DATE: 09.18.24

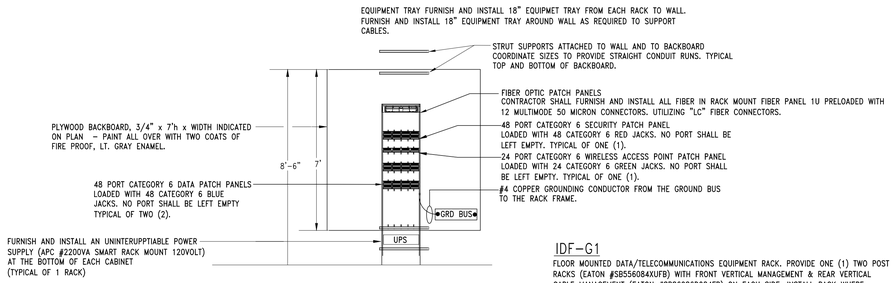
REVISED DATE: 09-27-2024 (1)

REVISED DATE:

REVISED DATE:

SHEET NO.: E5.2

*ALL DATA CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
*ALL WIRELESS ACCESS CABLES SHALL BE TERMINATED ON WIRELESS ACCESS PATCH PANELS
*ALL SECURITY CABLES SHALL BE TERMINATED ON SECURITY CAMERA PATCH PANELS
*PROVIDE NUMBER OF PATCH PANEL PARTS AS REQUIRED FOR ALL STRUCTURED CABLE DROPS WITH 25% SPARE CAPACITY.
*ALL FIBER OPTIC CONNECTIONS SHALL BE "LC" TYPE



IDF-G1

FLOOR MOUNTED DATA/TELECOMMUNICATIONS EQUIPMENT RACK. PROVIDE ONE (1) TWO POST RACKS (EATON #SB556084XUFB) WITH FRONT VERTICAL MANAGEMENT & REAR VERTICAL CABLE MANAGEMENT (EATON #SB860860084FB) ON EACH SIDE. INSTALL RACK WHERE INDICATED ON DRAWINGS. SUPPORT TOP OF RACK OFF BACK WALL WITH TWO STRUT SUPPORTS, ONE FROM EACH SIDE OF RACK. INSTALL VERTICAL POWER STRIP (TRIP LITE #PDUMV30NET) IN EACH TELECOMMUNICATION RACK.

1 E6.3 IDF-G1 COMMUNICATIONS RACK ELEVATION

NO SCALE

*ALL DATA CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
*ALL WIRELESS ACCESS CABLES SHALL BE TERMINATED ON WIRELESS ACCESS PATCH PANELS
*ALL SECURITY CABLES SHALL BE TERMINATED ON SECURITY CAMERA PATCH PANELS
*PROVIDE NUMBER OF PATCH PANEL PARTS AS REQUIRED FOR ALL STRUCTURED CABLE DROPS WITH 25% SPARE CAPACITY.
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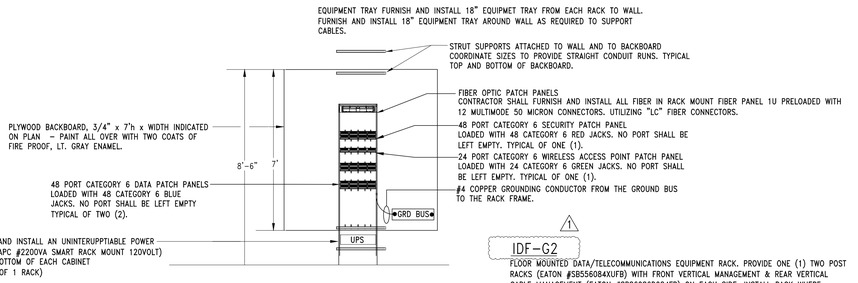

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IDF-G2

FLOOR MOUNTED DATA/TELECOMMUNICATIONS EQUIPMENT RACK. PROVIDE ONE (1) TWO POST RACKS (EATON #SB556084XUFB) WITH FRONT VERTICAL MANAGEMENT & REAR VERTICAL CABLE MANAGEMENT (EATON #SB860860084FB) ON EACH SIDE. INSTALL RACK WHERE INDICATED ON DRAWINGS. SUPPORT TOP OF RACK OFF BACK WALL WITH TWO STRUT SUPPORTS, ONE FROM EACH SIDE OF RACK. INSTALL VERTICAL POWER STRIP (TRIP LITE #PDUMV30NET) IN EACH TELECOMMUNICATION RACK.

2 E6.3 IDF-G2 COMMUNICATIONS RACK ELEVATION

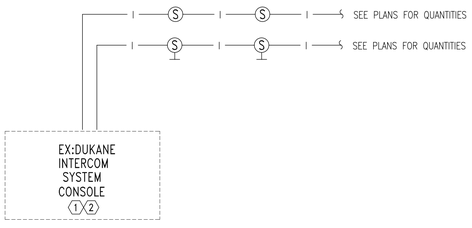
NO SCALE

INTERCOM SYSTEM NOTES:

1. THE INTERCOM SYSTEM SHALL BE INSTALLED COMPLETE, WITH ALL EQUIPMENT, DEVICES, COMPONENTS, CABLE AND WIRING SYSTEMS, ETC., READY FOR OPERATION.
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), INSULATED CABLE ENGINEERS ASSOCIATION (ICEA) AND THE ELECTRONIC INDUSTRIES ASSOCIATION (EIA).
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, CONDUCTOR AND CABLE SHIELDS, ETC., SHALL BE GROUNDED. SYSTEM SHALL BE BONDED TO THE FACILITY GROUND ELECTRODE SYSTEM AS NOTED.
4. IN GENERAL THE INTERCOM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED.
5. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". STENCIL IN 2" HIGH LETTERS ON EVERY JUNCTION BOX COVER ABOVE CEILING THE LETTERS "INT".
6. 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 OPERATION.
7. A "CERTIFICATE OF COMPLETION" FROM THE MANUFACTURER'S REPRESENTATIVE SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
8. INTERCOM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AND AMPLIFIERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
9. PROVIDE PROPERLY SIZED JUNCTION BOXES TO HOUSE DEVICES. COORDINATE WITH SHOP DRAWING PRIOR TO ROUGH-IN. INCLUDE IN BID ALL MATERIAL NECESSARY TO MOUNT AND CONNECT DEVICES PER MANUFACTURER'S RECOMMENDATIONS.

INTERCOM 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. MODIFY EXISTING INTERCOM SYSTEM AS REQUIRED TO ACCOMMODATE ADDITIONAL DEVICES.



3 E6.3 INTERCOM/CLASS BELL RISER DIAGRAM

NO SCALE

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FOR THE
BLOUNT COUNTY BOARD OF EDUCATION
ONEONTA, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET . MONTGOMERY . ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED Kenneth Ray Gunn PROFESSIONAL 09/27/2024 ENGINEER KENNETH RAY GUNN

SHEET TITLE : COMMUNICATION RISER DIAGRAM, DETAILS & NOTES

MCKEE JOB # : 24-169

DRAWN BY : J. TILLERY

DATE: 09.18.24

REVISED DATE: 09-27-2024 1

REVISED DATE:

REVISED DATE:

Gunn & Associates, P.C.
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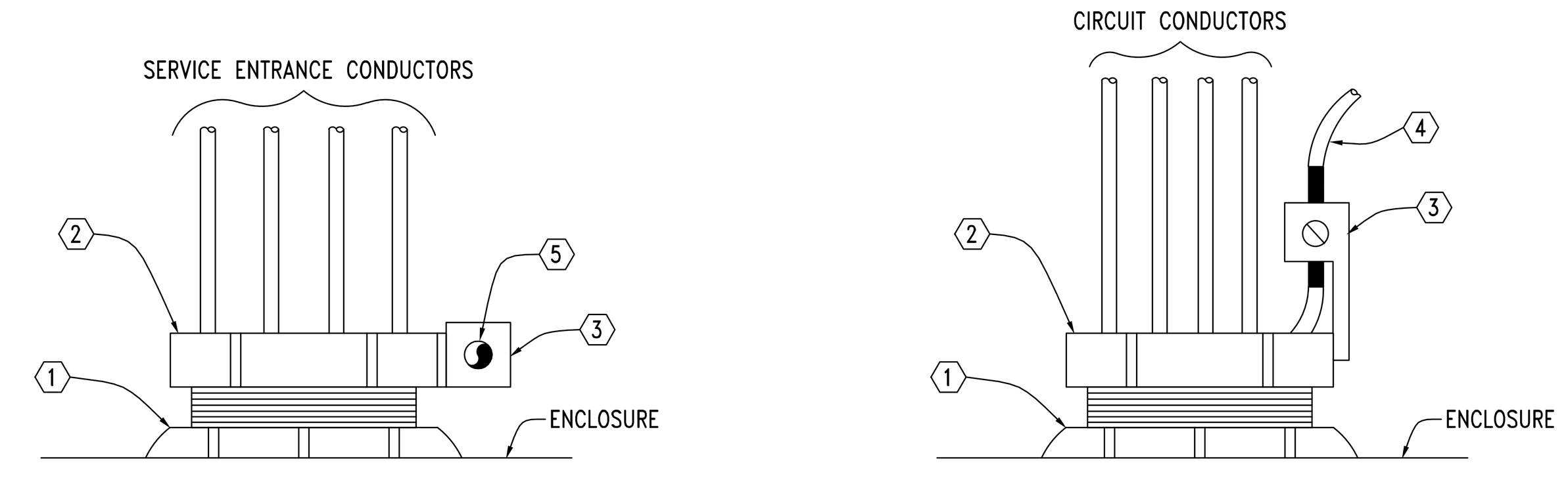
SHEET NO. : E6.3

- Friday, September 27, 2024 10:10:43 AM

DETAIL NOTES

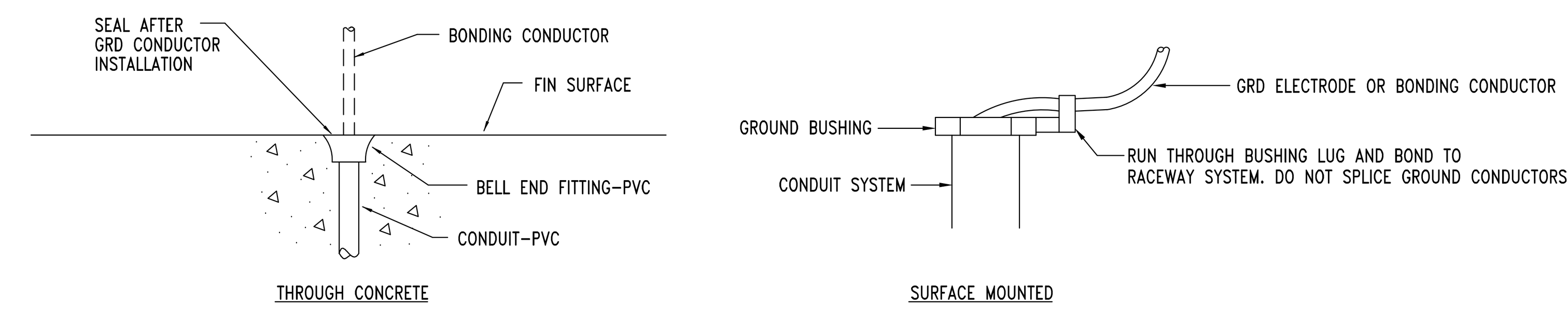
1. LOCK-NUT ASSEMBLIES
2. METAL GROUNDING BUSHING
3. COPPER GROUND LUG
4. COPPER GROUND CONDUCTOR. REMOVE INSULATION AT BUSHING, RUN THROUGH BUSHING LUG AND BOND TO RACEWAY SYSTEM. DO NOT SPLICE OR TAP.
5. CONTINOUS COPPER GROUND CONDUCTOR FROM GROUND BUS THROUGH EACH BUSHING. DO NOT SPLICE OR TAP.



3 (E7.2) DETAIL - TYPICAL GROUND BUSHING INSTALLATION
NO SCALE

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 (E7.2) DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM
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 GROUNDED 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.

DIMENSION BLOCK

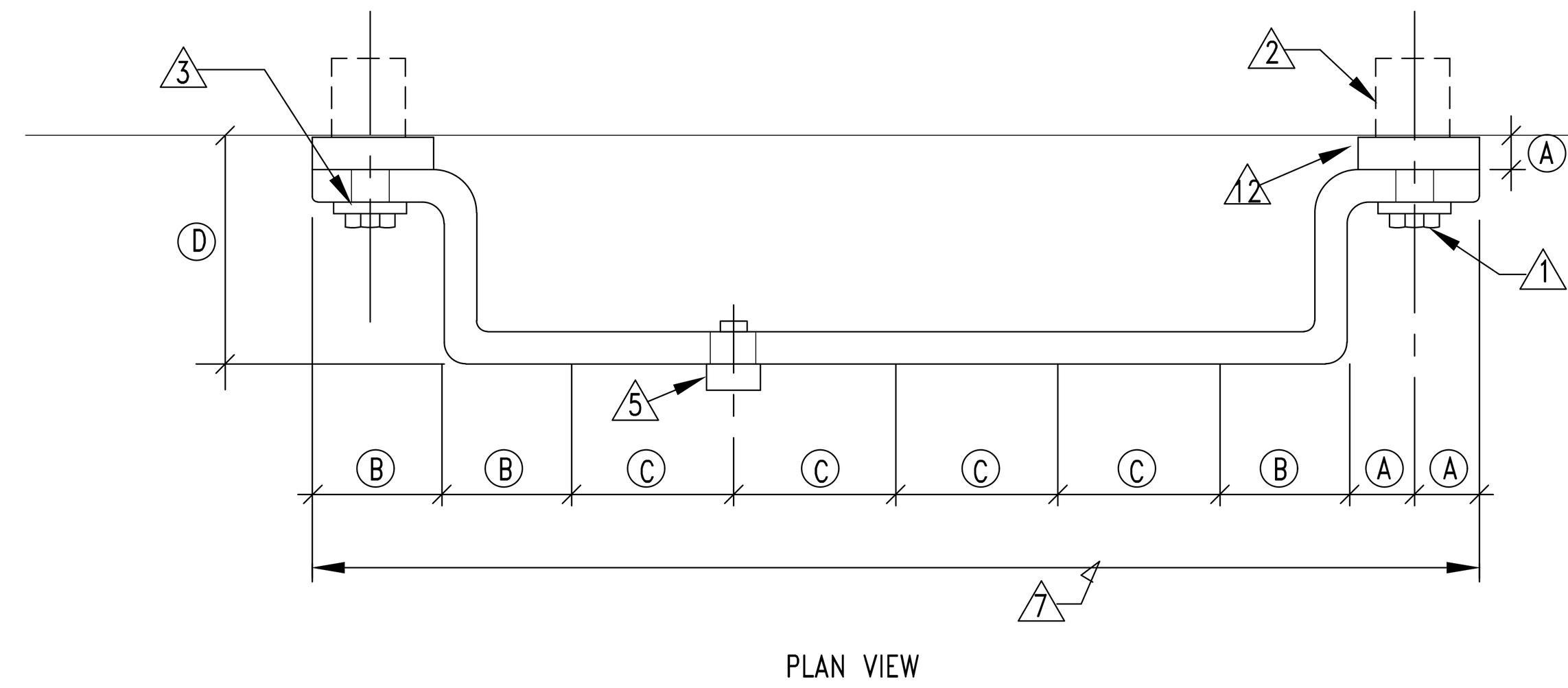
REF	ENGLISH	SI
A	1"	25.4mm
B	2"	50.8mm
C	2 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	.4572m

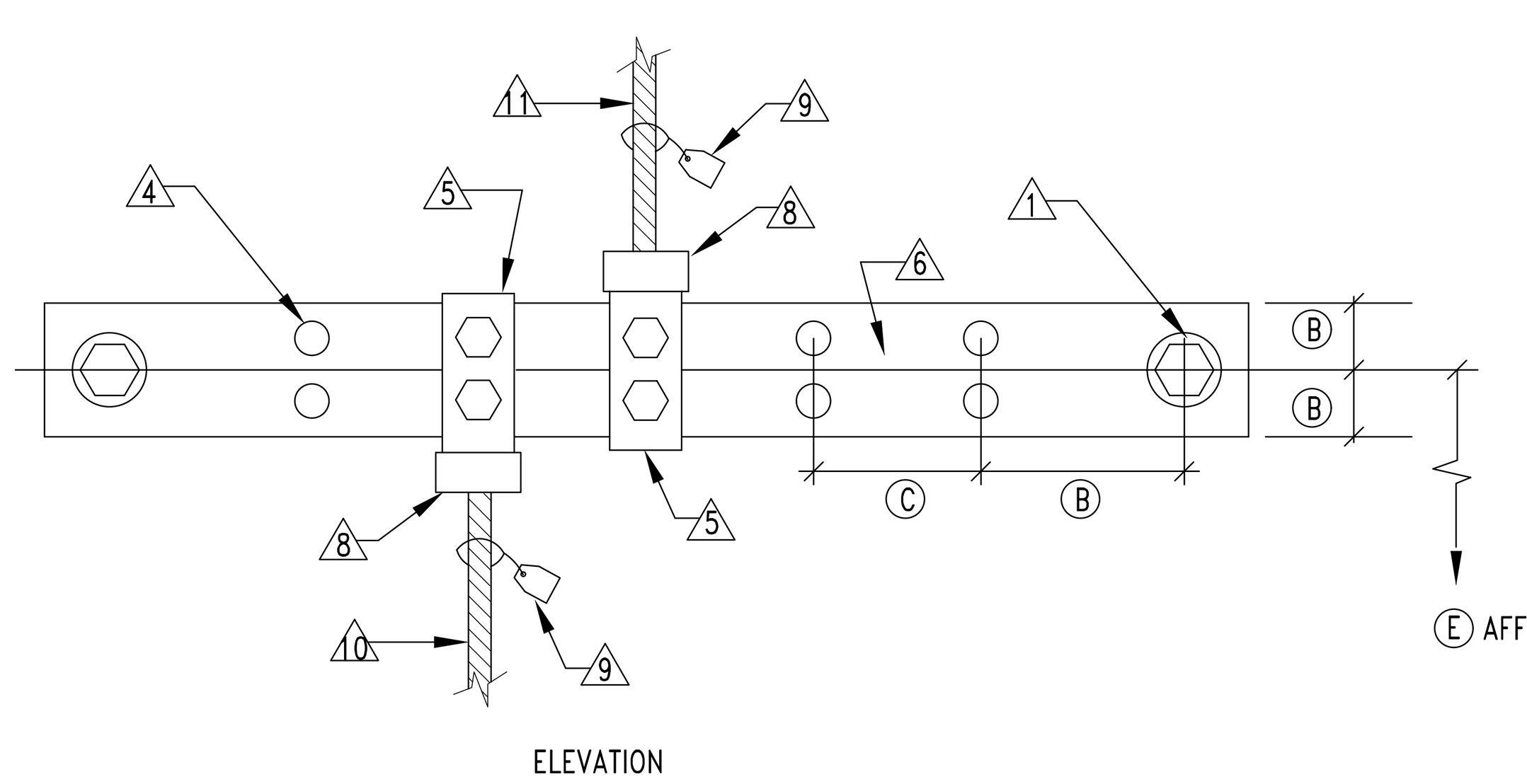
GROUND BUS NOTES

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

KEYED NOTES

1. 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
2. 1/2" (12.7mm) EXPANSION ANCHOR
3. 9/16"ø (14.2875mm) HOLE IN BAR
4. DRILLED DOUBLE CONNECTOR HOLES
5. FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #2/0 (SINGLE LUGS ONLY)
6. 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
7. LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
8. TYP CU GRD CONDUCTOR CONNECTION
9. DESCRIPTION TAG. STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
10. TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
11. TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
12. INSULATED NON-CONDUCTIVE SPACER

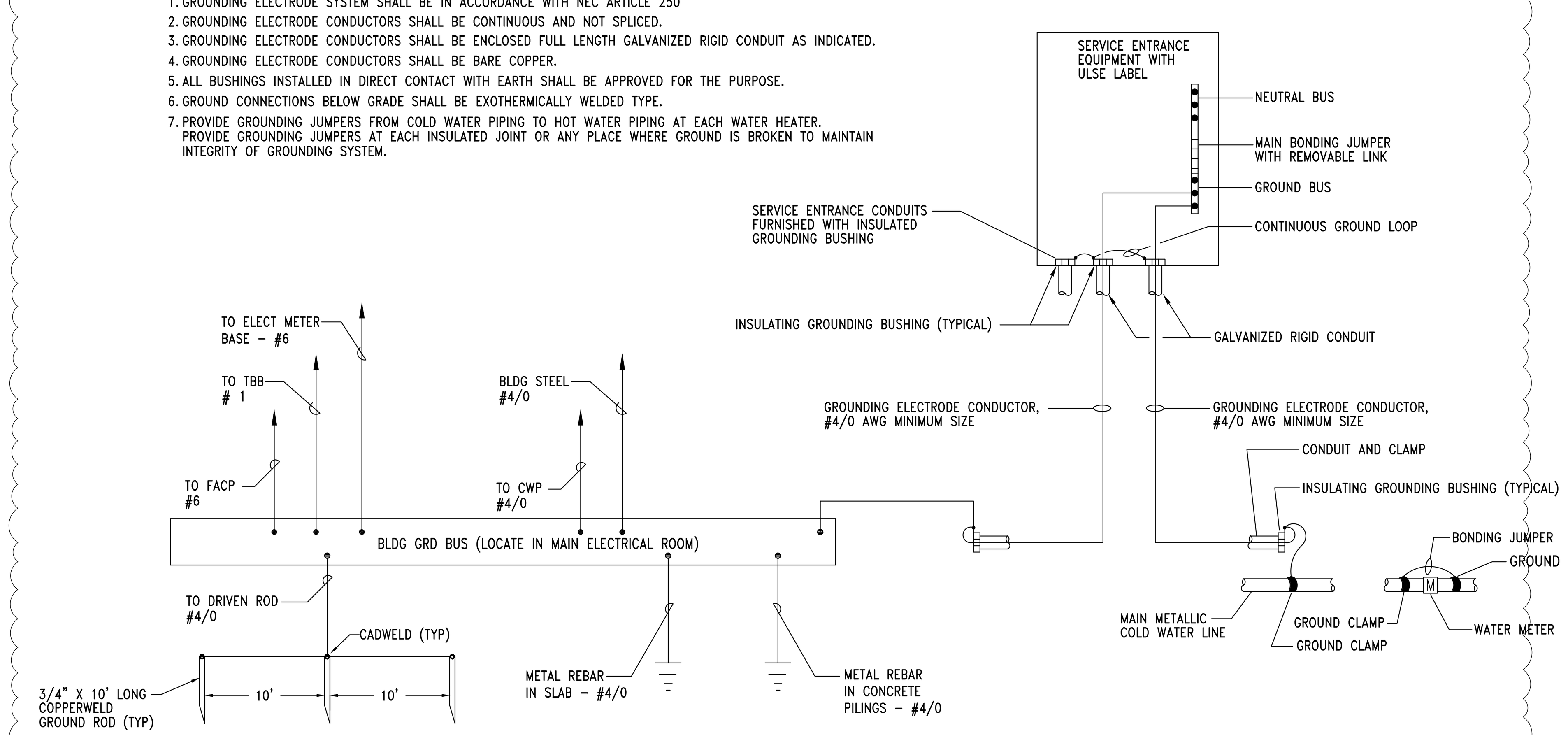




4 (E7.2) DETAIL - TYPICAL GROUND BUS INSTALLATION
NO SCALE

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.
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 (E7.2) DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION
NO SCALE

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