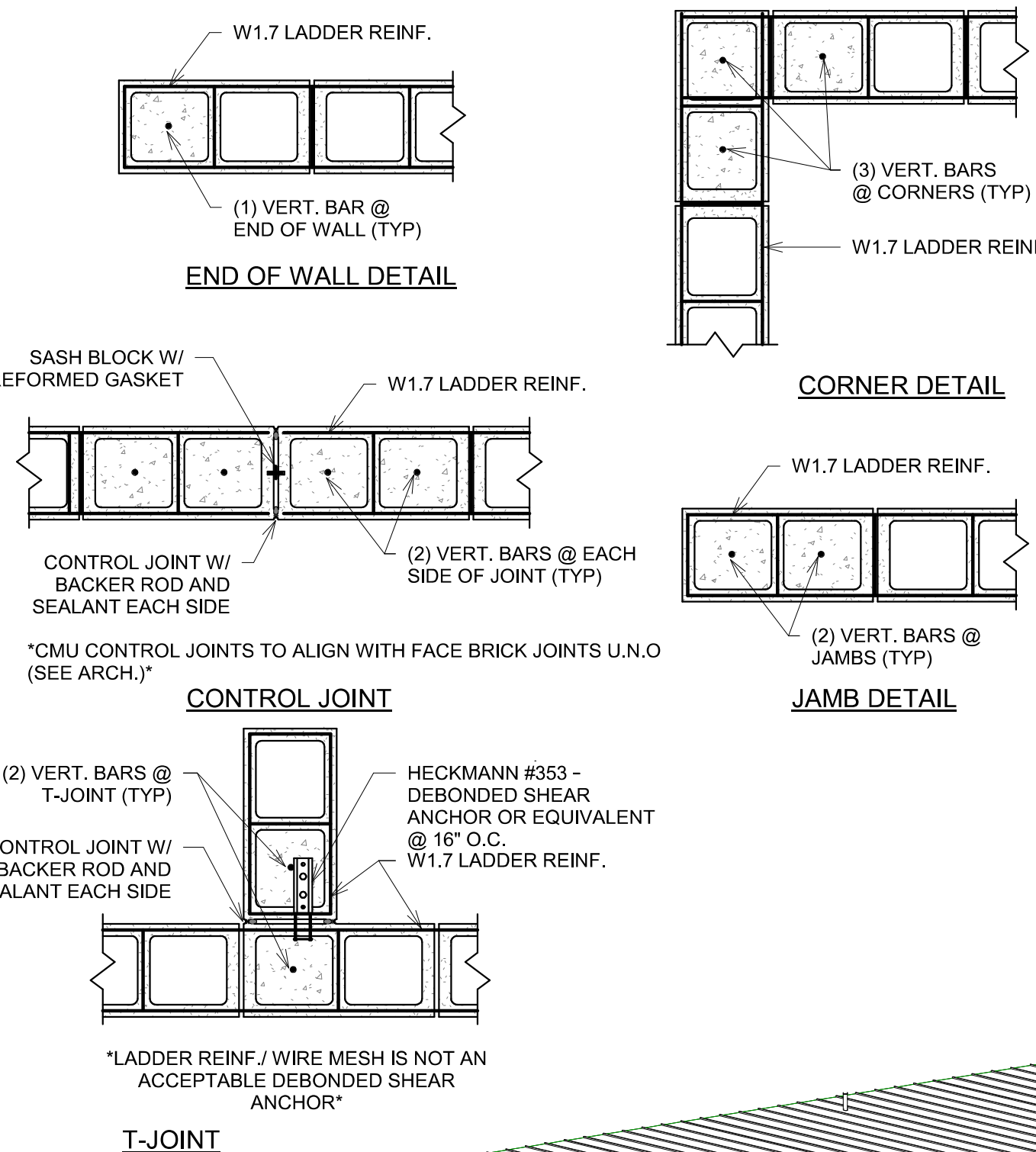


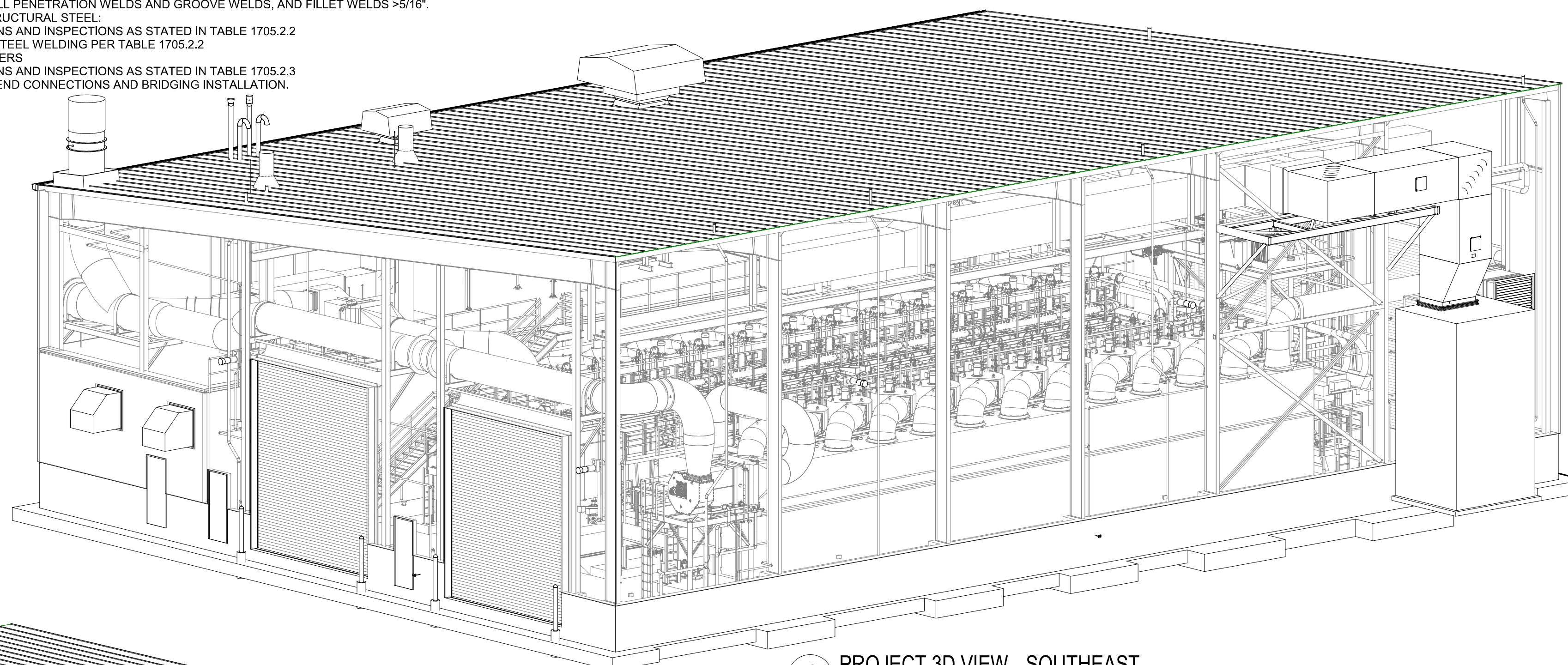
REINFORCED CONCRETE MASONRY

- THE REINFORCED CONCRETE MASONRY FOR THIS PROJECT HAS BEEN DESIGNED AND DETAILED IN ACCORDANCE WITH WORKINGS STRESS DESIGN METHOD.
- REINFORCED CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, $F_m=2000$ PSI. MASONRY UNITS SHALL BE NORMAL OR LIGHT WEIGHT BLOCK CONFORMING TO ASTM C90. GRADE N, TYPE 1, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. MORTAR SHALL CONFORM TO ASTM C270, TYPE S. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS OR LADDER TYPE FORMED FROM 9 GAUGE COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS.
- PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AT A MAXIMUM SPACING OF 16 FEET, AND IN ONE WALL AT INTERSECTING WALLS AT A MAXIMUM OF 4 FEET FROM THE WALL CORNER. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
- ALL REINFORCED CELLS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID.
- WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING. GROUT THE CELL FOR THE FULL HEIGHT OF THE DOWEL.
- REINFORCING BAR POSITIONERS SHALL BE USED FOR ALL VERTICAL REINFORCING TO SECURE THE BAR IN THE CENTER OF THE CELL BEFORE GROUTING STARTS. REBAR POSITIONERS SHALL BE LOCATED ONE COURSE ABOVE THE BOTTOM AND ONE COURSE BELOW THE TOP OF EACH GROUT LIFT.
- ALL SPLICED REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. SPLICED BARS SHALL BE WIRED TOGETHER. LAP SPLICES BETWEEN ADJACENT BARS SHALL BE STAGGERED A MINIMUM OF 24 BAR DIAMETERS.
- ALL REINFORCING BARS SHALL HAVE A MINIMUM GROUT COVER OF 1/2 OF AN INCH TO THE INSIDE FACE OF THE MASONRY UNIT, A MINIMUM OF TOTAL MASONRY COVER OF 2".
- ALL REINFORCING BARS IN WALLS SHALL HAVE NOT LESS THAN ONE BAR DIAMETER NOR 1" CLEAR BETWEEN BARS.
- VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4".
- GROUTING SHALL BE STOPPED 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
- GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN A CONTINUOUS OPERATION. MAXIMUM GROUT LIFT SHALL BE 60 INCHES.
- ALL BOLTS, ANCHORS, ETC. INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION. ALL CMU IS TO BE LAID IN RUNNING BOND, UNLESS NOTED OTHERWISE.
- TYPICAL REINFORCEMENT LAP SPLICES LENGTHS FOR CMU WALLS SHALL BE: #3 BARS - 27", #4 BARS - 36", #5 BARS - 45" & #6 BARS - 54" U.N.O.

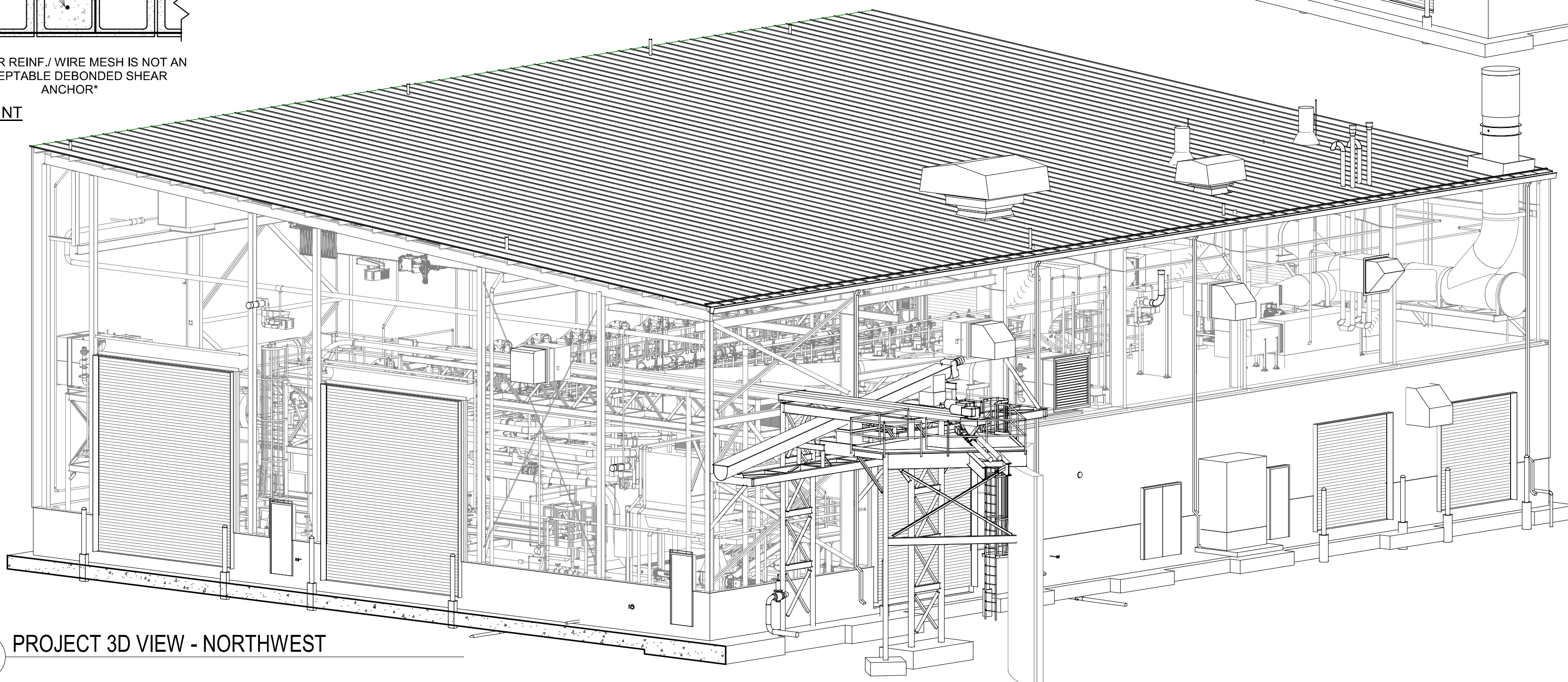


SPECIAL INSPECTION NOTES

- SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1704, AS OUTLINED BELOW. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER SHALL BE THOROUGHLY KNOWLEDGEABLE OF IBC SPECIAL INSPECTION REQUIREMENTS AND SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL (IBC 1704.1). THE CONTRACTOR SHALL CONTACT THE SPECIAL INSPECTOR DURING APPROPRIATE PHASES OF CONSTRUCTION SO THAT INSPECTIONS CAN BE MADE IN A TIMELY MANNER. THE SPECIAL INSPECTOR SHALL SUBMIT WRITTEN INSPECTION REPORTS TO THE ENGINEER OF RECORD'S OFFICE, WITHIN 3 WORKING DAYS OF EACH INSPECTION. ANY PROBLEMS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.
 - EARTHWORK:
 - FOLLOW REQUIRED VERIFICATIONS AND INSPECTIONS OF SOILS AS STATED IN TABLE 1705.6.
 - PERIODICALLY VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
 - PERIODICALLY VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
 - PERIODICALLY PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
 - CONTINUOUSLY VERIFY SUITABLE SUBGRADE TESTING, VERIFY PROPER USE OF MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
 - PERIODICALLY PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.
 - CONCRETE:
 - FOLLOW REQUIRED VERIFICATIONS AND INSPECTIONS AS STATED IN TABLE 1705.3.
 - CONTINUOUS INSPECTION FRESH CONCRETE DURING POURS TAKING OF SAMPLES OF FRESH CONCRETE TO PERFORM: STRENGTH TESTS, SLUMP TESTING, AIR CONTENT TESTING AND DETERMINING THE CONCRETE TEMPERATURE.
 - PERIODIC INSPECTION OF REINFORCING STEEL PRIOR TO POUR FOR INSTALLATION INCLUDING SIZE, SPACING, AND BAR CLEARANCES. VERIFY THAT LAP SPLICES AND EMBEDMENT LENGTHS ARE PER THE CONSTRUCTION DOCUMENTS.
 - PERIODIC INSPECTION OF GROUT PLACEMENT UNDER COLUMN BASE PLATES.
 - DURING PLACEMENT OF REINFORCED CONCRETE
 - PERIODIC INSPECTION OF INSTALLATION OF EPOXY ANCHORS.
 - MASONRY
 - REINFORCED MASONRY SHALL BE INSPECTED AS REQUIRED BY MSJC QUALITY ASSURANCE LEVEL B AS STATED IN TABLE 1.18.2 - LEVEL B QUALITY ASSURANCE IN TMS 402/ACI530/ASCE 5.
 - STEEL:
 - PERIODIC INSPECTION OF COLD-FORMED STEEL DECK MARKINGS TO CONFORM TO ASTM STANDARDS AS SPECIFIED AND MANUFACTURER'S CERTIFIED TEST REPORTS.
 - PERIODIC INSPECTION OF COLD-FORMED STEEL DECK AND DECK ATTACHMENTS AND WELDED STUD ANCHORS.
 - PERIODIC VISUAL INSPECTION OF STEEL MEMBERS TO CONFIRM THE STEEL MATERIAL PROPERTIES.
 - PERIODIC INSPECTION OF STEEL FRAME IN REGARD TO BRACING, MEMBER SIZE AND LOCATION, AND CONNECTION DETAILS TO ENSURE CONFORMANCE TO CONTRACT DOCUMENTS.
 - PERIODIC INSPECTION OF WELDS TO ENSURE CONFORMANCE TO CONTRACT DOCUMENTS.
 - CONTINUOUS INSPECTION OF FULL PENETRATION WELDS AND GROOVE WELDS, AND FILLET WELDS >5/16".
 - STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL:
 - FOLLOW REQUIRED VERIFICATIONS AND INSPECTIONS AS STATED IN TABLE 1705.2.2
 - INSPECTIONS OF REINFORCING STEEL WELDING PER TABLE 1705.2.2
 - OPEN-WEB STEEL JOIST AND JOIST GIRDERS
 - FOLLOW REQUIRED VERIFICATIONS AND INSPECTIONS AS STATED IN TABLE 1705.2.3
 - PERIODIC INSPECTION OF JOIST END CONNECTIONS AND BRIDGING INSTALLATION.



1 PROJECT 3D VIEW - SOUTHEAST



2 PROJECT 3D VIEW - NORTHWEST

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ONE INCH AT FULL SIZE
IF NOT ONE INCH SCALE ACCORDINGLY

DATE	REVISION

STATE OF ARKANSAS
 LICENSED PROFESSIONAL ENGINEER
 JOHN M. RIOS
 No. 14516
 813612024

Rogers, Arkansas
 ROGERS POLLUTION CONTROL FACILITY (PCF)
 SOLIDS HANDLING IMPROVEMENTS, PHASE II

DRYER BUILDING
 STRUCTURAL NOTES CONT. & PROJECT 3D VIEWS

ROGERS WATER UTILITIES

AUTODESK DOCS/CSE23068 HW ROGERS PCF Phase2 SH Improv/406493-Solids Building-CSE.rvt
 8/26/2024 10:04:15 AM
 TPL / STRUCTURAL NOTES CONT. & PROJECT 3D VIEWS

DATE: AUGUST 2024
 SCALE: 1" = 1'-0"
 DESIGNED BY: JMR
 DRAWN BY: TPL
 HWEI NO.: 2020043
 FILENAME: SA-02

SHEET NO.
SA-02