2. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. 3. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.

4. DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL. WHERE NO SPECIFIC DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR CONDITIONS ELSE WHERE ON THE PROJECT.

DO NOT SCALE DRAWINGS

6. THESE NOTES SHALL SUPPLEMENT THE PROJECT SPECIFICATIONS, WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.

7. WHERE DISCREPANCIES OCCUR BETWEEN GENERAL NOTES, PLANS, DETAILS, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN, UNLESS VERIFIED OTHERWISE BY THE ARCHITECT AND ENGINEER IN WRITING.

8. THESE DOCUMENTS SHALL NOT BE CONSTRUED AS STAND-ALONE DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONSULTANTS WORK.

9. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE OF SHOP DRAWINGS SUBMITTALS OR ANY OTHER PROJECT WITHOUT WRITTEN CONSENT BY DLR GROUP.

10. IF THE STRUCTURAL ENGINEER'S SEAL AND SIGNATURE IS NOT AFFIXED TO THESE DRAWINGS, THESE DRAWINGS ARE INTENDED FOR PRELIMINARY PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.

DESIGN DEAD LOADS: FLOOR: 25 PSF (SUPERIMPOSED)

ROOF: 20 PSF (REDUCIBLE IN ACCORDANCE WITH IBC 1607.12) ROOF: SNOW LOADS IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE SECTION 1608, INCLUDING AND CHAPTER 7 OF ASCE 7, INCLUDING DRIFT SNOW LOADS.

AT AUXILIARY GYM (STORM SHELTER)

DRIFTING SNOW LOADS - SEE SNOW DRIFT PLANS: DRIFT LOADS ARE IN ADDITION TO FLAT ROOF SNOW LOADS AND SHALL BE COMBINED WITH OTHER LOADS NOTED IN ACCORDANCE WITH THE BUILDING CODE PRESCRIBED COMBINATIONS. SEE S0.3 FOR DRIFT PLAN.

40 PSF (CLASSROOMS) 50 PSF (OFFICE) 100 PSF (CORRIDORS) 125 PSF (STORAGE ROOMS) 125 PSF (MECHANICAL ROOMS)

WIND LOAD: RISK CATEGORY III BASIC WIND SPEED, V = 120 MPH

RISK CATEGORY IV AT AUXILIARY GYM (STORM SHELTER) BASIC WIND SPEED, V = 125 MPH EXPOSURE "C"

STORM SHELTER LOADS & CRITERIA:

1. SEE STRUCTURAL PLANS FOR LOCATION OF STORM SHELTER, SEE S0.4 FOR ADDITIONAL CRITERIA. STRUCTURAL DESIGN IS BASED ON STRUCTURAL RECOMMENDATIONS LISTED IN ICC 500-2014 "STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS".

REFER TO ARCHITECTURAL, CIVIL, AND MEP DRAWINGS FOR DOOR AND WINDOW HARDWARE, ETC TO COMPLY WITH HARDENED AREA REQUIREMENTS.

3. ALL COMPONENTS THAT MAKE UP THE HARDENED AREA INCLUDING DEFERRED SUBMITTALS SHALL BE DESIGNED IN STRICT ACCORDANCE ICC 500-2014. CALCULATIONS SHALL BE PROVIDED AT EACH CONNECTION FOR VERIFICATION OF LOAD PATH. 4. STORM SHELTER WALL AND SLAB ASSEMBLIES HAVE BEEN SELECTED BASED ON ICC 500

RECOMMENDATIONS. NO ADDITIONAL TESTING OR ANALYSIS HAS BEEN PERFORMED TO ESTIMATE DYNAMIC IMPACT OF OBJECTS FOUND IN THE ACTUAL ENVIRONMENT AGAINST THE HARDENED

SEISMIC LOAD: S1 = 0.069

SEISMIC DESIGN IS IN ACCORDANCE WITH IBC, RISK CATEGORY PER TABLE 1604.5 IS CATEGORY III, SS = 0.101I = 1.25

I = 1.50 AT AUXILIARY GYM (STORM SHELTER) SITE CLASS = C

SDS = 0.107SD1 = 0.110 DESIGN CATEGORY 'B

DESIGN CATEGORY 'C' AT AUXILIARY GYM (STORM SHELTER) R = 3.0 Ω_0 = 3.0 Cd = 3.0 STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC

RESISTANCE R = 4.0; $\Omega_0 = 2.5$ Cd = 4.0 INTERMEDIATE REINFORCED MASONRY SHEAR WALLS R = 4.0; Ω_0 = 2.5 Cd = 4.0 INTERMEDIATE PRECAST CONCRETE SHEAR WALLS

LATERAL LOAD RESISTANCE SYSTEM:

COEFFICIENT OF FRICTION =

CONCRETE CONSTRUCTION:

1. LATERAL LOAD SYSTEM CONSISTS OF FLOOR/ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO MASONRY/CONCRETE SHEAR WALLS/STRUCTURAL STEEL X-BRACING.

2. LATERAL LOAD SYSTEM CONSISTS OF FLOOR/ROOF DIAPHRAGMS TRANSFERRING LATERAL

LOADS TO MOMENT RESISTING STEEL FRAMES. 3. STEEL FRAME IS A "NON-SELF-SUPPORTING" STEEL FRAME REQUIRING INTERACTION OF THE STEEL FRAMING, FLOOR/ROOF DIAPHRAGMS AND SHEAR WALLS/X-BRACING. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS NECESSARY TO PROVIDE SUPPORT OF FRAMING UNTIL ALL

ATTACHMENTS ARE COMPLETE, INCLUDING STRUCTURAL STEEL, STRUCTURAL STEEL TO

DIAPHRAGM/SHEAR WALLS, AND DIAPHRAGM TO SHEAR WALLS/BRACED FRAMES. FOUNDATIONS: 1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL INVESTIGATION PERFORMED BY COOK, FLATT & STROBEL ENGINEERS, P.A., JOB NO. 20-1074, DATED JUNE 8, 2020. A COPY OF THE

GEOTECHNICAL INVESTIGATION REPORT IS INCLUDED IN THE PROJECT SPECIFICATIONS. BASED

ON THE GEOTECHNICAL REPORT, THE FOLLOWING HAS BEEN ASSUMED: MINIMUM FROST DEPTH = ALLOWABLE SOIL BEARING PRESSURE = 2.500 PSF EQUIVALENT ACTIVE (UNRESTRAINED) FLUID PRESSURE = 55 PCF 75 PCF EQUIVALENT AT-REST (RESTRAINED) FLUID PRESSURE = EQUIVALENT PASSIVE FLUID PRESSURE = 250 PCF

2. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS CONTRACTOR SHALL READ AND FAMILARIZE HIMSELF WITH THE GEOTECHNICAL REPORT. IF DISCREPANCIES EXIST BETWEEN PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN, UNLESS DETERMINED OTHERWISE BY THE ENGINEER.

ALL FOUNDATION WALLS ARE DESIGNED TO BE RESTRAINED IN THE COMPLETED STRUCTURE, UNLESS OTHER-WISE NOTED. CONNECTING CONSTRUCTION SHALL BE INSTALLED, INCLUDING INSTALLATION OF FLOOR/ ROOF DIAPHRAGM AND THEIR ATTACHMENTS, PRIOR TO BACKFILLING WALL. CONCRETE DIAPHRAGMS SHALL REACH 75% OF REQUIRED 28 DAY COMPRESSIVE STRENGTH PRIOR TO BACKFILLING.

4. WALLS ARE NOT DESIGNED TO WITHSTAND TEMPORARY CONSTRUCTION LOADS, INCLUDING WIND AND SEISMIC. CONTRACTOR'S ENGINEER IS RESPONSIBLE FOR DESIGN OF TEMPORARY

BACKFILLING AGAINST FOUNDATION WALLS WHERE GRADE IS PRESENT ON BOTH SIDES SHALL BE PERFORMED SUCH THAT THE DIFFERENCE IN SOIL HEIGHT ON EACH SIDE DOES NOT EXCEED 2

6. TEMPORARY FROST PROTECTION SHALL BE PROVIDED DURING COLD WEATHER FOR ALL FOUNDATIONS.

7. CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF ALL EXCAVATIONS.

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301 AND ACI

2. PROVIDE A FORMED CONSTRUCTION KEYWAY BETWEEN ALL HORIZONTAL AND VERTICAL POUR EDGES EXCEPT CONCRETE TOPPING SLABS. PROVIDE WATERSTOPS FOR ALL CONSTRUCTION JOINTS BELOW WATER TABLE AND WHERE INTERIOR SLAB-ON-GRADE IS BELOW

3. CONCRETE SHALL BE MECHANICALLY CONSOLIDATED IN ACCORDANCE WITH ACI 309. 4. CONTROL (CONTRACTION OR CONSTRUCTION) JOINTS SHALL BOUND ALL CONCRETE SLABS

ON GRADE AS SHOWN ON THE DRAWINGS. 5. PROVIDE DOVETAIL ANCHOR SLOTS WHERE MASONRY/STONE IS VENEERED TO CONCRETE. PLACE SLOTS VERTICALLY AT 32-INCHES OC MAXIMUM. PROVIDE DOVETAIL ANCHOR FOR EACH TWO SQUARE FEET OF VENEER SURFACE.

CONCRETE REINFORCEMENT: 1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, GRADE 60.

2. CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, NON-PRESTRESSED CONCRETE UNLESS OTHERWISE NOTED ON DETAILS:

a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" b. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER: #5 BARS AND SMALLER: c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: SLABS, WALLS, AND JOISTS: #14 AND #18 BARS: #11 BARS AND SMALLER: d. BEAMS, COLUMNS: PRIMARY REINFORCEMEN

TIES, STIRRUPS, SPIRALS:

3. REINFORCING BAR SPLICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS. PROVIDE CLASS 'B' LAP SPLICE, UNO.

4. ALL REINFORCING SHALL BE PROPERLY CHAIRED BY THE CONTRACTOR. SECURE ALL REINFOCEMENT IN PLACE PRIOR TO CONCRETE POUR PER SPECIFICATIONS. DO NOT WET STICK REINFOCEMENT OR EMBEDED ITEMS INTO CONCRETE.

5. LAP ALL WELDED WIRE REINFORCING AT LEAST ONE FULL WIRE SPACING PLUS 2 INCHES.

MECHANICAL COUPLERS SHALL BE TYPE 2 COUPLERS CAPABLE OF SUSTAINING 125% Fy.

 PROPORTION EACH INDIVIDUAL CONCRETE MIX TO HAVE THE FOLLOWING PROPERTIES: 28 DAY F'C MIX TYPE MAX W/C MAX AGG EXP CLASS CONCRETE OVER STEEL DECK 4,000 PSI NWT FOUNDATIONS/WALLS* 4,500 PSI NWT 0.45 INTERIOR SLABS-ON-GRADE 4,000 PSI NWT 0.45 F0, C0. EXTERIOR SLABS-ON-GRADE* 5,000 PSI NWT 0.40 F3, C2

NWT = NORMAL WEIGHT CONCRETE (UNIT WEIGHT = 145PCF) LWT = LIGHT WEIGHT CONCRETE (UNIT WEIGHT = 110 PCF) * 6% ±1 1/2% AIR ENTRAINED CONCRETE AT ALL EXTERIOR CONDITIONS INCLUDING SHALLOW

2. CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3" PRIOR TO ADDING ADMIXTURE AND NOT EXCEEDING 8" AT PLACEMENT 3. THE ADDITION OF WATER TO A CONCRETE BATCH WITH INSUFFICIENT SLUMP SHALL NOT BE

4. SUBSTITUTION OF FLYASH FOR PORTLAND CEMENT IN SLABS ON GRADE AND STRUCTURAL SLABS SHALL NOT BE PERMITTED.

5. ALL CONCRETE SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.04% MEASURED AT 28 DAYS AFTER CURING IN LIME WATER AS DETERMINED BY ASTM C157 USING AIR STORAGE. PROVIDE TEST RESULTS WITH MIXTURE DESIGN.

CONTINUOUS FOOTINGS: 1. CONTINUOUS FOOTING REINFORCING SHALL CONTINUE THROUGH ISOLATED SPREAD FOOTINGS WHERE THEY OCCUR.

2. PROVIDE CLASS 'A' LAP SPLICES FOR ALL TOP AND BOTTOM BARS WHERE LAP SPLICES ARE

3. TOP FOOTING REINFORCING SHALL TERMINATE AT TEE AND CORNER INTERSECTIONS WITH A STANDARD 90 DEGREE HOOK. ALL REINFORCING AT INTERSECTIONS SHALL EXTEND TO THE FAR FACE OF THE INTERSECTING FOOTING.

4. CONSTRUCTION JOINT LOCATIONS SHALL NOT OCCUR WITHIN EXTENTS OF ISOLATED SPREAD

5. CONTINUOUS FOOTINGS SHALL NOT HAVE CONSTRUCTION JOINTS IN A HORIZONTAL PLANE. 6. WHERE FOOTING EXCAVATIONS ARE MADE NEATLY, SIDES MAY BE CAST AGAINST THE EARTH CUT. PROVIDE 4" MINIMUM COVER FOR ALL REINFORCING CAST AGAINST EARTH, INCLUDING BOTTOM AND SIDES OF FOOTINGS, WHERE APPLICABLE

SLABS ON GRADE AND ELEVATED SLABS: 1. ALL SLABS ON GRADE SHALL BE CAST ON A 15 MIL VAPOR BARRIER (RE: SPECS) INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS, PLACED OVER CRUSHED ROCK DRAINAGE MATERIAL TO FORM A CAPILARY BREAK OF THICKNESS NOTED ON DRAWINGS, BUT NOT LESS THAN THAT PRESCRIBED BY THE GEOTECHNICAL ENGINEER.

2. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

CONTRACTOR SHALL READ AND FAMILARIZE HIMSELF WITH THE GEOTECHNICAL REPORT. IF

DISCREPANCIES EXIST BETWEEN PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT, THE MOST STRINGENT REQUIREMENTS SHALLGOVERN. 3. ALL SLABS SHOWN ON STRUCTURAL DRAWINGS REQUIRE REINFORCING. UNLESS OTHERWISE CALLED OUT ON DRAWINGS, REINFORCE SLABS WITH 6X6 W2.1XW2.1 WELDED WIRE REINFORCING.

4. ALL PIPING AND CONDUIT INSTALLED BELOW SLABS ON GRADE SHALL BE INSTALLED ENTIRELY BELOW THE BOTTOM OF THE SLAB, WITH NO ENCROACHMENT UP INTO THE BOTTOM OF THE SLAB.

5. PIPING AND CONDUIT SHALL NOT BE INSTALLED IN ELEVATED SLABS. ROUTE ALL PIPING AND CONDUIT BELOW STRUCTURE.

STRUCTURAL PRECAST CONCRETE: 1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORDANCE WITH IBC SECTION 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT.

2. PROVIDE UNITS AS SHOWN ON THE DRAWINGS. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 5,000 PSI. HOLLOW CORE JOINTS SHALL BE GROUTED SOLID. DOUBLE TEE FLANGES SHALL BE CONNECTED IN ACCORDANCE WITH MANUFACTURER'S STANDARD DETAIL TO RESIST A SHEAR LOAD OF 1,000 LBS/FT VERTICALLY AND HORIZONTALLY.

A QUALIFIED ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL DESIGN THE UNITS. UNITS SHALL BE DESIGNED FOR CONSTRUCTION, HANDLING, ERECTION, AND IN-PLACE CODE PRESCRIBED LOADS AND ANY ADDITIONAL LOADS SHOWN ON THE DRAWINGS. ALL CONNECTIONS AND EMBEDS SHALL BE BY THE UNIT MANUFACTURER INCLUDING CONNECTION TO THE FOUNDATIONS.

4. DESIGN WALL PANEL UNITS FOR VERTICAL DEAD AND LIVE LOADS, WIND/SEISMIC LOADS PERPENDICULAR TO PANEL FACE, AS PREVIOUSLY NOTED, AND SEISMIC LOAD PARALLEL TO PANEL FACE TO MATCH DIAPHRAGM CONNECTION CAPACITY (SEE DETAILS FOR CONNECTION CAPACITY). IN ADDITION, DESIGN FOR SPECIAL LOADS WHERE SHOWN ON THE DRAWINGS.

5. PRECAST SUPPLIER IS RESPONSIBLE FOR DESIGN, DETAILING AND FURNISHING OF ALL HEADERS, POUR STRIPS, UNIT LAYOUT, OPENINGS THROUGH FLOOR, ETC., AS NECESSARY TO PROVIDE FOR A COMPLETE INSTALLATION.

6. UNITS SHALL HAVE ONE HOUR UNRESTRAINED FIRE RESISTANCE RATING IN ACCORDANCE WITH UL J949 AND SHALL HAVE UL LABELS. 7. ALL OPENINGS REQUIRING CUTTING OF STRANDS SHALL BE BY UNIT MANUFACTURER.

COORDINATE WITH MECHANICAL, ELECTRICAL AND OTHER TRADES INVOLVED. 8. DEFLECTION OF PRECAST FLOOR FRAMING MEMBERS NOT SUPPORTING MASONRY BEARING OR PARTITION WALLS ABOVE SHALL NOT EXCEED SPAN/480 FOR FULL DEAD AND LIVE LOAD INCLUDING LONG TERM DEFLECTIONS DUE TO ALL SUSTAINED LOADS.

9. DEFLECTION OF PRECAST ROOF OR FLOOR FRAMING MEMBERS SUPPORTING MASONRY WALLS ABOVE SHALL NOT EXCEED SPAN/600 FOR LIVE LOAD ONLY, AND NOT TO EXCEED SPAN/240 FOR DEAD AND LIVE LOADS.

10. PRECAST DESIGN SHALL COMPLY WITH ALL ICC 500-2014 REQUIREMENTS AND A SET OF CALCULATIONS SHALL BE SUBMITTED FOR REVIEW. 11. PRECAST SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE LICENSED ENGINEER

RESPONSIBLE FOR THEIR PREPARATION. 12. COORDINATE WITH ALL OTHER TRADES WHICH PRECAST CONCRETE INTERACTS. THIS INCLUDES BUT IS NOT LIMITED TO COORDINATING WITH MASONRY, STEEL, CAST-IN-PLACE CONCRETE, JOIST, AND METAL DECK SUPPLIERS. WHERE MISALIGNMENT OF STEEL EMBEDDED

PLATES DUE IMPROPER COORDINATION OCCURS. THE CONTRACTOR SHALL HIRE AN ENGINEER

REPAIR DETAIL WITH CALCULATIONS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL

LICENSED IN THE STATE WHICH THE PROJECT IS LOCATED TO PRODUCE A REPAIR AND SUBMIT THE

PRIOR TO INSTALLATION.. 13. INSULATED PRECAST "SANDWICH" PANELS SHALL BE DESIGNED BY THE PRECAST SUPPLIER AS A NON-COMPOSITE WALL SYSTEM COMPRISED OF AN INTERIOR LOAD-BEARING STRUCTURAL WYTHE, AND LAYER OF RIGID INSULATION, AND AN EXTERIOR NON-LOAD BEARING ARCHITECTURAL WYTHE. EVERY EFFORT SHALL BE MADE BY THE PRECAST SUPPLIER TO DETAIL WALL PANELS AND CONNECTIONS TO AVOID THERMAL BRIDGING BETWEEN ARCHITECTURAL AND STRUCTURAL

CONCRETE TOPPING SLABS: . TOPPING THICKNESS SHOWN ON PLAN IS NOMINAL. ACTUAL THICKNESS WILL VARY DUE TO PRECAST CAMBER AND/OR STRUCTURE DEFLECTIONS. PROVIDE THICKNESS AS REQUIRED TO ACHIEVE A LEVEL FLOOR WITH A MINIMUM ACTUAL THICKNESS THE THICKNESS CALLED OUT ON PLAN MINUS 1/2-INCH.

2. UNLESS OTHERWISE NOTED ON PLAN OR DETAIL, PROVIDE 1 #4 IN TOPPING SLAB EACH SIDE OF OPENINGS EXCEEDING 12 INCHES IN SIZE. EXTEND REINFORCING 1'-6" PAST CORNER OF

3. ALL TOPPING SLABS SHALL BE REINFORCED WITH #4 @ 12" O.C. EW, UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC IN THE TOPPING SHALL BE FLAT SHEETS CENTERED IN THE TOPPING THICKNESS AND CHAIRED TO MAINTAIN ITS CORRECT LOCATION. LAP ONE FULL MESH AT SPLICES AND WIRE TOGETHER.

4. PROVIDE CONTROL JOINTS IN TOPPING SLAB ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS. CONTROL JOINT DEPTH SHALL BE NO MORE THAN 1/4 TOPPING THICKNESS.

CONCRETE MASONRY UNITS (CMU): 1. THE MINIMUM 28-DAY COMPRÉSSIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 2,650 PSI ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 2,000 PSI PER THE INTERNATIONAL BUILDING CODE, SECTION 2105.1 SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602 TABLE 2).

NOT USED

3. MORTAR SHALL BE TYPE N ABOVE BASE FLASHING AND TYPE S BELOW BASE FLASHING IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, SECTION 2103.9 MORTAR PROPORTIONS.

RE: SPECIFICATIONS (MASONRY CEMENT IS NOT ACCEPTABLE). 4. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF GROUT SHALL BE THE GREATER OF 3,000 PSI OR THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS, TESTED PER ASTM C 1019. GROUT

5. MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, GR/10E 60.

SHALL CONFORM TO ASTM C476. DO NOT USE AIR ENTRAINMENT AND OTHER ADDITIVES UNLESS

ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES. EXCEPT FOR SELF

6. HORIZONTAL JOINT REINFORCING SHALL COMPLY WITH ASTM A 951 AND BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON CENTER, UNLESS OTHERWISE NOTED ON PLAN. SPACE JOINT REINFORCING AT 8-INCHES ON CENTER AT NON-CAVITY MULTIWYTHE WALLS. COLLAR JOINT BETWEEN WYTHES OF NON-CAVITY MULTIWYTHE WALLS ARE TO BE MORTARED/GROUTED

7. MINIMUM BOND BEAM REINFORCING SHALL BE (2) #5 IN 6" AND 8" WIDE BOND BEAMS AND (2) #6 IN 12" WIDE BOND BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED ON TYPICAL MASONRY WALL OPENING DETAIL.

8. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN 72 TIMES THE REINFORCING BAR DIAMETER, UNLESS NOTED OTHERWISE.

9. PROVIDE BOND BEAMS AT TOP AND BOTTOM OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, AND WHERE SHOWN ON THE DRAWINGS. 10. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS

PLACED AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSITIONERS

(2) #5 @ 24" OC

AT REINFORCING SPLICES. MININMUM 2 POSITIONERS PER GROUT POUR. 11. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS. 8" CONC. BLOCK

12" CONC. BLOCK

12. PROVIDE BOND BEAMS AT AS"OC (MAXIMUM) VERTICALLY WHERE STACK BOND CMU WALLS OCCUR. (REFER TO ARCHITECT 1 RAL DRAWINGS)

13. PROVIDE VERTICAL REINFORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON THE PLANS.

14. VERTICAL REINFORCING REQUIRED BY THESE NOTES OR SHOWN ON THE FOUNDATION PLANS SHALL EXTEND FROM FOUNDATION TO TOP OF WALL UNLESS OTHERWISE NOTED. 15. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE

LOCATED SO AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CELLS. PIPES AND

CONDUITS PASSING HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM SPACING OF

SLEEVES SHALL BE THREE DIAMETERS. 16. ALL MASONRY BELOW HIGHEST ADJACENT GRADE SHALL BE GROUTED SOLID.

17. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND RECONSOLIDATED IN ACCORDANCE WITH THE SPECIFICATIONS FOR MASONRY BUILDINGS TM S602, SECTION 3.5E.

18. PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

19. TESTING LABORATORY, IN ACCORDANCE WITH IBC REQUIREMENTS, SHALL INSPECT REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OPERATION. MORTAR FINAL PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INCH. 20. WHERE STONE IS VENEERED TO MASONRY, PROVIDE TRUSS TYPE (GALV.) JOINT REINFORCING

AT 16 INCHES ON CENTER WITH "EYES". 21. SPACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". REGARDLESS OF JOINT LAYOUT SHOWN ON ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOT PLACE CONTROL JOINTS ABOVE / BELOW OPENINGS OR WITHIN

SCHEDULED JAMB EXTENTS. CONTROL JOINTS SHALL NOT JOG HORIZONTALLY, UNLESS NOTED

22. SUBMIT SHOP DRAWINGS WITH PLANS AND ELEVATIONS CLEARLY INDICATING REBAR SIZE, SPACING, LAP LENGTHS, LINTELS, JAMBS, CONTROL JOINT LOCATIONS, FOOTING, SLAB, AND ROOF ELEVATIONS, WALL PENETRATIONS WITH DIMENSIONS, BOND BEAM ELEVATIONS, ETC . FOR REVIEW AND APPROVAL IN ADDITION TO ANY OTHER REQUIREMENTS LISTED INSPECIFICATIONS..

23. REFER TO ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING CMU WALLS AND REINFORCE AS FOLLOWS UNLESS OTHERWISE NOTED: 6" AND 8" CMU: (1) #4 @48" OC (2) #4 @48"OC 12" CMU:

24. ALL CMU WALL OPENINGS REQUIRE LINTELS AS DEFINED IN THE "TYPICAL MASONRY LINTEL DETAIL/ SCHEDULE. 25. REFER TO TYPICAL DETAILS FOR MASONRY DETAILS AND REQUIREMENTS NOT SHOWN IN

SECTIONS OR PLANS 26. CONTRACTOR SHALL REMOVE AND REPLACE WALL AT HIS COST IF WALL IS FOUND TO BE CONSTRUCTED WITHOUT REBAR POSITIONERS.

27. ALL CMU LOAD BEARING WALLS REQUIRE LEVEL 2 SPECIAL INSPECTION PER IBC SECTION 1705.4, AND SHALL BE SPECIAL INSPECTED FOR REINFORCING PLACEMENT, SIZE, POSITIONERS, AND LAP LENGTHS PRIOR TO POURING GROUT.

STRUCTURAL STEEL: 1. FABRICATOR QUALIFICATIONS: A QUALIFIED FABRICATOR THAT PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY STD AND AN "APPROVED FABRICATOR" IN ACCORDANCE WITH IBC SECTION 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT. AISC CERTIFICATION SHALL BE SHOWN CLEARLY ON THE SHOP DRAWINGS TO AVOID SHOP DRAWINGS BEING REJECTED.

2. ALL COMPLETE JOINT PENETRATION WELDS SHALL BE ULTRASONIC TESTED BY THE INSPECTION AGENCY. 3. STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL

WIDE FLANGE SHAPES SHALL MEET ASTM A992 (GRADE 50). 4. STEEL TUBE SHALL MEET ASTM A500, GRADE B.

5. STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S.

LABORATORY.

6. BOLTS AT STEEL TO STEEL CONNECTIONS SHALL BE 3/4-INCH DIAMETER, ASTM A325-N, AND TIGHTENED TO THE SNUG TIGHT CONDITION AS DEFINED BY AISC UNLESS OTHERWISE NOTED. WHERE CONNECTIONS ARE NOTED TO BE ASTM A 325-SC, BOLTS SHALL BE TIGHTENED TO THE MINIMUM PRETENSION FOR FULLY TIGHTENED BOLTS BY ONE OF THE AISC APPROVED METHODS.

7. ANCHOR BOLTS IN CONCRETE OR MASONRY SHALL BE 3/4-INCH DIAMETER ASTM F1554 GRADE 55, WELDABLE, UNLESS NOTED OTHERWISE.

8. FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND THE AISC MANUAL.

9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY

CODE AWS D1.1. ELECTRODES SHALL MATCH BASE METALS AS SPECIFIED IN IBC. ALL WELDING OF ASTM A706 REINFORCING STEEL TO STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AWS D1.4 USING E70 ELECTRODES. 10. THE TESTING LABORATORY SHALL VISUALLY INSPECT ALL FIELD WELDING. ALL COMPLETE

11. ALL BOLTS (HIGH STRENGTH, ANCHOR BOLTS, EXPANSION BOLTS, ADHESIVE ANCHORS, ETC.) SHALL BE INSTALLED WITH STEEL WASHERS.

PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING

12. ALL WELDS SHOWN ON THE DRAWINGS SHALL BE SHOP WELDS UNLESS NOTED OTHERWISE. CONTRACTOR MAY SUBSTITUTE FIELD WELDS FOR SHOP WELDS AT HIS DISCRETION. SHOP DRAWINGS SHALL CLEARLY NOTE SHOP AND FIELD WELDS. 13. THE CONTRACTOR SHALL RETAIN AN PROFESSIONAL ENGINEER LICENSED IN THE STATE WHICH THE PROJECT IS LOCATED TO DESIGN ALL STEEL CONNECTIONS NOT FULLY DETAILED IN THE DRAWINGS. CONNECTION DESIGN CALCULATIONS BEARING THE SEAL AND SIGNATURE OF THE

ENGINEER RESPONSIBLE FOR THEIR PREPARATION SHALL BE SUBMITTED WITH THE SHOP

DRAWING SUBMITTAL. 14. CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE BUILDING SYSTEM AT ALL TIMES DURING THE ERECTION PROCESS. CONTRACTOR SHALL CONSIDER EFFECTS FROM WIND, SEISMIC. AND OTHER LOADING DURING CONSTRUCTION.

15. CONNECTIONS SHALL BE DESIGNED TO SUSTAIN THE FACTORED (LRFD) REACTIONS NOTED. WHERE NO REACTION HASBEEN PROVIDED. THE CONNECTION CAPACITY SHALL NOT BE LESS THAN ONE-HALF THE MAXIMUM FACTORED UNIFORMLOAD LISTED IN THE AISC CONSTRUCTION MANUAL FOR THE GIVEN SPAN.

16. ALL BOLTED MOMENT CONNECTIONS SHALL UTILIZE HIGH STRENGTH SLIP CRITICAL BOLTS.

17. CONNECTIONS SHOWN ON CONSTRUCTION DOCUMENTS ARE FOR CONCEPTUAL PURPOSES

18. COORDINATE WITH ALL OTHER TRADES WHICH STEEL INTERACTS. THIS INCLUDES BUT IS NOT LIMITED TO COORDINATING WITH MASONRY, PRECAST CONCRETE, CAST-IN-PLACE CONCRETE, JOIST, AND METAL DECK SUPPLIERS. WHERE MISALIGNMENT OF STEEL CONNECTIONS DUE IMPROPER COORDINATION OCCURS, THE CONTRACTOR SHALL HIRE AN ENGINEER LICENSED IN THE STATE WHICH THE PROJECT IS LOCATED TO PRODUCE A REPAIR AND SUBMIT THE REPAIR DETAIL WITH CALCULATIONS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

19. CONTRACTOR IS RESPONSIBLE FOR DESIGNING ALL STEEL BRACE CONNECTIONS FOR THE ULTIMATE MEMBER FORCES SHOWN IN ACCORDANCE WITH AISC LRFD SPECIFICATIONS. IF A MEMBER FORCE IS NOT SHOWN, THE CONNECTION SHALL BE DESIGNED FOR THE FULL TENSION CAPACITY OF THE MEMBER. CONNECTIONS SHALL BE DESIGNED TO TRANSFER THE MAXIMUM COMBINATION OF THE FORCES OF ALL MEMBERS, FRAMING INTO THE JOINT.

20. ALL MEMBER FORCES SHOWN ARE TO BE TRANSFERRED TO THE WORK POINT. THE WORK POINT IS DEFINED AS THE INTERSECTION OF ALL CENTROIDS OF THE MEMBERS FRAMING INTO THE JOINT. AT BRACED FRAMES WHERE HORIZONTAL MEMBERS FRAMING INTO THE JOINT HAVE VARYING DEPTHS, AND SIMILAR TOP OF STEEL ELEVATIONS. THE WORK POINT SHALL BE BASED ON THE CENTER LINE OF THE HORIZONTAL MEMBER OF LEAST DEPTH (IE, THE WORKPOINT WILL NOT NECESSARILY CORRESPOND TO THE DEEPER MEMBER).

21 THE MEMBER SIZES SHOWN ON THE DRAWINGS DO NOT ACCOUNT FOR NET AREA REDUCTION DUE TO BOLT HOLES. PROVIDE SHOP WELDED MEMBER END SUPPLEMENT PLATES WHERE REQUIRED FOR BOLT HOLE NET-AREA REDUCTION. ALL MEMBER END SUPPLEMENT PLATES, SPLICE PLATES, FILLER PLATES AND GUSSET PLATES OF TRUSS CONNECTIONS SHALL BE ASTM

COMPOSITE BEAM SHEAR CONNECTOR STUDS: 1. SHEAR STUDS SHALL BE 3/4-INCH DIAMETER 5" LENGTH SHOWN ON PLANS, WITH A FINAL LENGTH NOT LESS THAN DEPTH OF DECK PLUS 1.5" CONFORMING TO AWS D1.1. PROVIDE SHEAR STUDS AT 2'-0" OC MAXIMUM FOR BEAMS ALL BEAMS SUPPORING SLAB WITHOUT A DESIGNATED

2. NUMBER OF SHEAR STUDS INDICATED THUS (#) ON PLAN. WHERE THE NUMBER OF STUDS FOR A BEAM IS INDICATED ON THE PLAN BY ONE NUMBER, STUDS SHALL BE PLACED SYMMETRICALLY WITH RESPECT TO THE BEAM CENTER LINE WITH 1/2 OF THE STUDS ON EACH HALF OF THE BEAM. WHERE NUMBER OF STUDS IS INDICATED BY MORE THAN ONE NUMBER, PLACE THE NUMBER OF

3. STUD PLACEMENT WHEN DECK VALLEYS ARE PERPENDICULAR TO BEAM:

STUDS INDICATED BY EACH NUMBER UNIFORMLY IN THAT PORTION OF THE BEAM.

a. PLACE ONE STUD IN DECK VALLEYS, UNIFORMLY ALONG THE BEAM OR PORTION OF BEAM INDICATED, CENTERED OVER THE BEAM WEB. IF THE REQUIRED NUMBER OF STUDS IS LESS THAN THE NUMBER OF DECK VALLEYS, ADD STUDS AS REQUIRED TO PROVIDE A MAXIMUM STUD SPACING OF 2'-0". IF THE REQUIRED NUMBER OF STUDS EXCEEDS THE NUMBER OF DECK VALLEYS, SEE

b. WHEN THE REQUIRED NUMBER OF STUDS EXCEEDS THE NUMBER OF DECK VALLEYS, ADD A SECOND STUD IN DECK VALLEYS UNIFORMLY ALONG THE BEAM OR PORTION OF BEAM INDICATED UNTIL THE REQUIRED NUMBER OF STUDS IS REACHED. WHEN TWO STUDS ARE REQUIRED IN A DECK VALLEY, PLACE THE STUDS 1 1/2" EACH SIDE OF THE BEAM WEB CENTERLINE.

4. STUD PLACEMENT WHEN DECK VALLEYS ARE PARALLEL TO BEAM:

a. PLACE STUDS UNIFORMLY ALONG THE BEAM OR PORTION OF BEAM INDICATED. CENTER THE STUDS OVER THE WEB AND PROVIDE A MAXIMUM SPACING OF 2'-0" AND A MINIMUM SPACING OF 4 1/2". IF THE REQUIRED NUMBER OF STUDS EXCEEDS THE NUMBER OF STUDS PLACED AT A SPACING OF 4 1/2", SEE FOLLOWING NOTE.

b. WHEN THE REQUIRED NUMBER OF STUDS EXCEEDS WHAT CAN BE PLACED AT 4 1/2", PLACE A SECOND ROW OF STUDS AT 4 1/2", STARTING AT THE POINT NEAREST THE END OF THE BEAM, UNTIL THE REQUIRED NUMBER OF STUDS IS REACHED. WHEN TWO STUDS ARE REQUIRED, PLACE STUDS 1 1/2" EACH SIDE OF THE BEAM WEB CENTERLINE.

CAMBER OF 1 INCH.

5. CAMBER BEAMS NOTED THUS (+1"). THIS EXAMPLE INDICATES A POSITIVE (UPWARD)

ASTM A653. ALL METAL DECKING SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS.

1. STEEL DECK AND ACCESSOCRES SHALL BE FROM STEEL CONFORMING TO ASTM A1008 OR

2. ROOF DECK SHALL HAVE A MINIMUM YIELD STRENGTH, FY =33 KSI

3. COMPOSITE DECK SHALL HAVE A MIMIMUM YIELD STRENGTH, FY = 50 KSI 4 ALL STEEL DECK SHALL HAVE ONE COAT OF MANUFACTURER'S STANDARD PRIMER PAINT, UNLESS OTHERWISE NOTED. COORDINATE ALL LOCATIONS, IF ANY, SHOWN ON ARCHITECTURAL DRAWINGS THAT REQUIRE SPRAY APPLIED FIREPROOFING TO BE ADHERED TO THE METAL DECK. AT SUCH LOCATIONS, HOT DIP GALVANIZE DECK IN ACCORDANCE WITH ASTM A653 WITH MINIMUM COATING OF G60, UNLESS OTHERWISE NOTED.

5. COMPOSITE DECK SHALL BE 18 GAGE MINIMUM, UNLESS OTHERWISE NOTED. REFER TO DRAWINGS AND SPECIFICATIONS FOR OTHER REQUIREMENTS.

6. DECK WELDING SHALL COMPLY WITH THE BUILDING CODE AND AWS D1.3 USING E70XX ELECTRODES.

7. ROOF DECK SHALL BE ATTACHED TO SUPPORTING STRUCTURAL MEMBERS TO RESIST 300PLF DIAPHRAGM SHEAR, UNLESS OTHERWISE NOTED ON DRAWINGS. ATTACH DECK AT PERIMETER TO MEET OR EXCEED THE MINIMUM FACTORY MUTUAL REQUIREMENTS DESIGNATED BY THE ARCHITECT WHERE APPLICABLE.

8. COMPOSITE DECK SHALL BE ATTACHED TO SUPPORTING STRUCTURAL MEMBERS BY 5/8" PUDDLE WELDS PLACED AT EACH DECK RIB OR 12 INCHES ON CENTER MAX. DEPENDING ON THE DECK ORIENTATION RELATIVE TO THE SUPPORTINGMEMBERS. THIS WELD CAN BE OMITTED IN RIBS THAT HAVE SHEAR STUD CONNECTORS. SIDE LAPS BETWEEN ADJACENT UNITS ARE TO BE ATTACHED WITH #10 TEK SCREWS AT 36 INCHES MAXIMUM (MINIMUM 2 SCREWS PER SPAN).

9. PROVIDE 2 INCHES MINIMUM BEARING AT DECK SUPPORTS. 10. ALL DECK SHALL BE CONTINUOUS OVER 3 SPANS UNLESS OTHERWISE NOTED. WHERE LESS THAN 3 SPANS IS AVAILABLE, PROVIDE, FOR THE ACTUAL SPAN CONDITION, DECK GAGE CAPABLE OF SUPPORTING PUBLISHED DEAD AND LIVE LOAD CAPACITIES AND CONSTRUCTION SPANS NOTED

FOR 3 SPAN CONDITIONS. THE DECK SUPPLIER SHALL VERIFY THAT THE DECK SUPPLIED MEETS OR EXCEEDS THE REQUIRED CLEAR SPANS FOR THE ACTUAL PROJECT AND SHALL POST THE ALLOWABLE CONSTRUCTION CLEAR SPANS CLEARLY ON THE SHOP DRAWINGS. IF LOCATIONS EXIST ON THE PROJECT THAT EXCEED THE ALLOWABLE CONSTRUCTION CLEAR SPAN, THE SUPPLIER SHALL INCREASE THE DECK THICKNESS AS NECESSARY TO ACCOMMODATE ACTUAL SPAN CONDITION. 11. COMPOSITE DECK DESIGN IS INTENDED TO BE UNSHORED UNLESS OTHERWISE NOTED. IT IS

DECKING HAS SUFFICIENT STRENGTH AND STIFFNESS FOR CONSTRUCTION LOADING. 12. CONCRETE REQUIRED FOR COMPOSITE ACTION SHALL MEET 28-DAY COMPRESSIVE STRENGTH PRIOR TO SUPPORTING TOPPING SLABS AND/OR MASONRY WALLS OR OTHER HEAVY LOADS. 13. LOADS EXCEEDING 50 LBS SHALL NOT BE PERMITTED TO BE HUNG FROM METAL DECKING.

HANGERS FOR DUCTWORK, PIPING, ELECTRICAL CONDUITS, ETC SHALL BE HUNG DIRECTLY FROM

STRUCTURAL STEEL OR ANCHORS EMBEDDED IN CONCRETE. SUBMIT HANGING LOAD LAYOUT FOR

THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL DECKING CONDITIONS TO DETERMINE IF THE

14. CONCRETE TOPPING SLABS AND THICKNESSES SHOWN ON PLANS AND DETAILS ARE NOMINAL THICKNESSES. ACTUAL THICKNESSES WILL VARY DUE TO BEAM CAMBERS AND DECK/ BEAM DEFLECTIONS. PROVIDE THICKNESSES AS REQUIRED TO ACHIEVE A LEVEL FLOOR WITH A MINIMUM ACTUAL THICKNESS NOT LESS THAN THE THICKNESS CALLED OUT ON PLANS MINUS 1/4".

15. METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LABORATORY. 1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORDANCE WITH IBC SECTION

1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT.

2. ALL STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH IBC SECTION 2207, OPEN WEB STEEL JOISTS AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS, PUBLISHED BY THE STEEL JOIST INSTITUTE. 3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORDANCE WITH STEEL JOIST

INSTITUTE RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE

BRIDGING TO AVOID MECHANICAL OPENINGS. 4. DESIGN JOISTS AND BRIDGING TO RESIST A NET UPLIFT OF 15 PSF. JOISTS WITHIN 10'-0" OF BUILDING EDGES AND RIDGES SHALL BE DESIGNED FOR A NET WIND UPLIFT LOAD OF 35 PSF.

5. JOIST SHOE DEPTH SHALL BE 2 1/2" AT K SERIES JOIST, 5" LH SERIES JOISTS, UNLESS OTHERWISE NOTED. JOIST SUPPLIER SHALL COORDNATE TOP OF STEEL BEAM ELEVATIONS WITH STEEL SUPPLIER PRIOR TO FABRICATION. 6. MANUFACTURER SHALL SUBMIT CALCULATIONS AND DRAWINGS SEALED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR ALL JOISTS. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS AND CLEARLY

CALCULATIONS ARE GROUNDS FOR REJECTION. 7. LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/360 AT SIMPLE SPAN ROOF MEMBERS AND TO SPAN/360 AT SIMPLE SPAN FLOOR MEMBERS. ALL JOISTS SHALL BE CAMBERED PER SJI

SHOW ALL DESIGN LOADS. SHOP DRAWINGS SUBMITTED WITHOUT SIGNED AND SEALED

8. ALL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE APPLICABLE U.L. LISTINGS PER THE ARCHITECTURAL DRAWINGS. 9. PROVIDE SLOPED AND/OR SLOPED AND SKEWED BEARING SEATS AS REQUIRED FOR ROOF

10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO 11. STEEL JOISTS ARE CALLED OUT ON PLAN SIMILAR TO THUS: "20LHSP". THIS EXAMPLE INDICATES A SPECIAL 20-INCH DEEP LH SERIES JOIST WITH A NON-UNIFORM LOAD SHOWN ON THE

12. STEEL JOISTS ARE CALLED OUT ON PLAN SIMILAR TO THUS: "20KSP ". THIS EXAMPLE INDICATES A SPECIAL 20-INCH DEEP STEEL JOIST WITH A NON-UNIFORM LOAD SHOWN ON THE

13. REFER TO SNOW DRIFT DIAGRAM FOR SNOW DRIFT LOADS. LOADS SHALL BE COMBINED WITH

OTHER ROOF LOADS INDICATED IN ACCORDANCE WITH THE BUILDING CODE. SNOW DRIFT LOADS

SHALL BE DISTRIBUTED OVER THE TRIBUTARY WIDTH OF ROOF SUPPORTED BY THE JOIST. 14. MANUFACTURER SHALL DESIGN JOISTS FOR THE LOADS NOTED ON THE DRAWINGS PLUS AN ADDITIONAL 500 POUND CONCENTRATED DEAD LOAD TO OCCUR ANYWHERE ALONG THE SPAN. DO NOT ALTER DEPTHS SHOWN ON PLANS UNLESS REQUESTED AND APPROVED IN WRITING PRIOR TO SHOP DRAWING SUBMITTAL. ADDITIONAL LOAD MAY BE ASSUMED TO ACT AT TOP CHORD ONLY.

15. COORDINATE EXACT MECHANICAL EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR AND DESIGN JOISTS FOR TRIBUTARY LOADS. COORDINATE JOIST WEBS WHERE MECHANICAL DUCTS SHOWN ON MECHANICAL DRAWINGS ARE DESIGNED TO PENETRATE THROUGH

16. JOISTS SHALL BE DESIGNED FOR A 500 LBS CONCENTRATED SERVICE WIND LOAD AT ALL STEEL ANGLE BRACES. REFERENCE THE ROOF SECTIONS FOR ANGLE BRACE SPACING REQUIREMENTS. JOIST SUPPLIER SHALL COORDINATE WITH THE STEEL SUPPLIER FOR EXACT BRACE LOCATIONS.

COLD-FORMED STEEL FRAMING: 1. FABRICATE AND ERECT COLD-FORMED STEEL STRUCTURAL MEMBERS PER THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE. WHERE REQUIRED, THE SEISMIC DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL BE IN

ACCORDANCE WITH THE ADDITIONAL PROVISIONS OF SECTION 2211 OF THE IBC. 2. MINIMUM YIELD STRENTH FOR 43 AND 33 MILS STUDS, JOISTS, STRAPS, BRIDGING, ETC., SHALL BE 33,000-PSI MINIMUM. YIELD STRENGTH FOR 97, 68, AND 54 MILS STUDS, JOISTS, STRAPS, BRIDGING, ETC., SHALL BE 50,000-PSI MINIMUM. ALL MEMBERS SHALL BE GALVANIZED.

3. PROVIDE COLD-FORMED METAL FRAMING MEMBERS WITH SECTION PROPERTIES AS MANUFACTURED BY MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA COMPLYING WITH ICBO REPORT 4943P AND THE INTERNATIONAL BUILDING CODE.

4. WELDERS EXPERIENCED IN WELDING LIGHT GAGE STEEL SHALL PERFORM ALL WELDING. 1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.

2. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN -PLACE ANCHORS.

CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR WHEN DRILLING HOLES.

INSTRUCTIONS (MPII) AND ICC EVALUATION REPORTS CORRESPONDING TO THAT ANCHOR. INSTALL ANCHORS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED 5. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A

REGISTERED PROFESSIONAL ENGINEER SHOWING THAT THE SUBSTITUTED PRODUCT WILL

ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY

4. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION

THE BUILDING CODE. PRODUCT ICC-ES CODE REPORTS SHALL BE INCLUDED WITH SUBMITTAL 6. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE ANCHORS. PERIODIC SPECIAL INSPECTION SHALL BE PERFORMED FOR MECHANICAL ANCHORS.

7. ALL ANCHORS SHALL HAVE EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PUBLISHED INSTALLATION INSTRUCTIONS. 9. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE

8. ADHESIVE ANCHORS MUST BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S

10. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318. PROOF OF CURENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.

BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL. 12. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT FOR THE ANCHOR.

11. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO

RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION

a. SIMPSON STRONG-TIE WEDGE-ALL (ESR-1396) b. HILTI KWIK BOLT 3 MASONRY ANCHORS (ESR-1385)

14. SCREW ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING:

13. EXPANSION BOLTS IN MASONRY SHALL BE ONE OF THE FOLLOWING:

COMMENCEMENT OF INSTALLING ANCHORS

a. SIMPSON STRONG-TIE TITEN HD SCREW ANCHORS (ESR-1056) b. HILTI KH-EZ SCREW ANCHOR (ESR-3056)

a. SIMPSON STRONG-TIE SET-XP ADHESIVE ANCHORING SYSTEM (ER-265) b. HILTI HY-70 FAST CURE ADHESIVE ANCHORS (ESR-2682)

16. EXPANSION BOLTS IN CONCRETE, ANCHORS SHALL BE ONE OF THE FOLLOWING:

15. ADHESIVE ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING:

a. SIMPSON STRONG-TIE STRONG-BOLT 2 (ESR-3037) b. HILTI KWIK BOLT TZ CONCRETE ANCHORS (ESR-1917)

17. SCREW ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING:

a. SIMPSON STRONG-TIE TITEN HD SCREW ANCHORS (ESR-2713) b. HILTI KH-EZ SCREW ANCHOR (ESR-3027) 18. ADHESIVE ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING:

a. SIMPSON STRONG-TIE SET-3G ADHESIVE ANCHORING SYSTEM (ESR-4057) b. SIMPSON STRONG-TIE AT-XP ADHESIVE ANCHORING SYSTEM (ER-263) c. HILTI HY-200 SAFE SET SYSTEM ADHESIVE ANCHORS (ESR-3187) d. HILTI RE-500 SD ADHESIVE ANCHORS (ESR-2322) 19. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN

STRENGTH. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21

1. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS.

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

1. CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING ALL WORK AND MATERIALS NECESSARY TO INSTALL NEW WORK IN EXISTING BUILDING SHALL BE INCLUDED.

2. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY IF EXISTING CONDITIONS DO NOT MATCH, OR SEEM IN CONFLICT WITH, INFORMATION SHOWN ON DRAWINGS.

3. DISCREPANCIES: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS

AND SHALL CONTACT THE ENGINEER OF RECORD IF ANY DISCREPANCIES ARE FOUND BEFORE 4. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION TO THE OWNER'S OPERATION AND

TO PROVIDE PATRON, FACILITY STAFF AND WORKERS SAFETY. 5. EXCESSIVE NOISE AND VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE

OWNER'S REPRESENTATIVE.

APPLICABLE CODES AND ORDINANCES.

6. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT TO REMAIN FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION OPERATIONS PERFORMED UNDER THIS

THEY SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY GUYS, BRACING, AND OTHER SUPPORTS AS NEEDED TO SAFELY RESIST ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING LOADS ERECTION EQUIPMENT AND ERECTION OPERATIONS, AND WIND OR SEISMIC FORCES COMPARABLE IN INTENSITY FOR WHICH THE STRUCTURE AS DESIGNED. 8. ALL ERECTION AND CONSTRUCTION PROCEDURES SHALL MEET THE REQUIREMENTS OF ALL

7. THE SEQUENCE OF CONSTRUCTION SHALL BE THE RESPONSIBILITY THE CONTRACTOR AND

9. ALL FRAMING CONNECTION TO EXISTING STRUCTURE SHALL BE FIELD VERIFIED PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION.

SUBMITTALS GENERAL 1. THE CONTRACTOR SHALL DEVELOP AND SUBMIT A SUBMITTAL SCHEDULE CLEARLY INDICATING THE NUMBER OF STEEL SHOP DRAWINGS, CONCRETE REINFORCING DRAWINGS, AND OTHER SHOP

DRAWINGS TO BE SUBMITTED EACH WEEK OVER THE DURATION OF THE PROJECT.

REASONABLE TIME TO STAFF APPROPRIATELY FOR THE SCHEDULED SUBMITTALS. THE SUBMITTAL ENGINEER'S REVIEW SCHEDULE IS SUBJECT STRICTLY TO THE SUBMITTAL SCHEDULE PROVIDED BY 3. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE

2. THE SUBMITTAL SCHEDULE PROVIDED BY THE CONTRACTOR IS NECESSARY TO PROVIDE

WITH THE INTENT OF THE DRAWINGS. REVIEW DOES NOT IMPLY OR STATE THAT THE FABRICATOR HAS CORRECTLY INTERPRETTED THE CONSTRUCTION DOCUMENTS. 4. CONTRACTOR SHALL SUBMIT CALCULATIONS WITH THE SHOP DRAWINGS DESIGNATED AS DEFERRED SUBMITTALS, SIGNED AND SEALED BY THE ENGINEER, LICENSED IN THE STATE WHICH

THE PROJECT IS LOCATED, RESPONSIBLE FOR THEIR PREPARATION WHEN REQUIRED IN THE

SPECIFICATIONS (SEE ALSO 'DEFERRED SUBMITTALS'). 5. COPIES OF THE CONTRACT DOCUMENTS SHALL NOT BE SUBMITTED AS SHOP DRAWINGS. CONTRACT DRAWINGS SHOW ONLY GENERAL DESIGN INTENT. FINAL SHOP DRAWING SECTIONS SHALL PROVIDE SIZES, LAYOUT, EXACT DIMENSIONS, ELEVATIONS, GRADES OF MATERIALS, ETC., SPECIFIC TO EACH LOCATION.

6. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO SUBMITTING TO DLR GROUP. REQUEST FOR INFORMATION FOR ITEMS SUCH AS OVERALL BUIDLING GEOMETRY, ELEVATIONS, ETC. SUBMITTED THROUGH SHOP DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. IF GEOMETRY CANNOT BE DETERMINED FROM THE DRAWINGS, THE CONTRACTOR SHALL SUBMIT AN RFI AND COORDINATE THE RESPONSE WITH ALL AFFECTED TRADES PRIOR TO FABRICATION.

DEFERRED SUBMITTALS: 1. THE FOLLOWING ARE DEFERRED SUBMITTAL ITEMS: CONCRETE MIXTURE DESIGN

GROUT MIXTURE DESIGN PRECAST CONCRETE UNITS, INCLUDING WALL PANELS AND DOUBLE TEES STFFL JOISTS METAL STAIRS AND RAILINGS

STRUCTURAL STEEL CONNECTIONS

COLD FORMED METAL FRAMING

2. DEFERRED SUBMITTAL CALCULATIONS AND/OR SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW WITH THE SHOP DRAWING SUBMITTAL. ONCE REVIEWED. CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FOUNDATION NOTES

1. FINISHED FLOOR ELEVATION VARIES PER PLAN. 100'-0" EQUAL TO SURVEY ELEVATION = 1011.00', CONFIRM WITH CIVIL DRAWINGS. 2. REFER TO ARCHITECTURAL DRAWINGS FOR OVERALL BUILDING GEOMETRY, WALL LOCATIONS, AND ADDITIONAL PARTITION WALL REQUIREMENTS. CONFIRM WALL OPENINGS, TOP

OF WALL ELEVATIONS AND BRICK LEDGE ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF SLOPED, RAISED, DEPRESSED SLABS AND DRAINS. 4. REFER TO SPECIFICATIONS FOR ALL SUBGRADE PREPARATION REQUIREMENTS. REFER TO GENERAL NOTES FOR BACKFILL AND TEMPORARY SHORING REQUIREMENTS.

5. COORDINATE ALL PENETRATIONS THRU FOUNDATIONS WITH MEP DRAWINGS. REFERENCE TYPICAL FOUNDATION DETAILS FOR SLEEVE DETAILING.

6. ALL EXTERIOR EXPOSED STEEL (IN UNCONDITIONED SPACE) SHALL BE HOT DIP

7. SHADED REGION ON PLAN INDICATES ICC500 STORM SHELTER.

FRAMING PLAN NOTES

1. TOP OF STEEL ELEVATION ARE SHOWN ON PLANS. TOP OF STEEL NOT SPECIFICALLY NOTED ON THE PLANS SHALL BE LINEARLY INTERPOLATED FROM TOP OF STEEL NOTED ON THE

2. REFER TO ARCHITECTURAL DRAWINGS FOR OVERALL BUILDING GEOMETRY, WALL

LOCATIONS, AND ADDITIONAL PARTITION WALL REQUIREMENTS.

3. COORDINATE ALL SLAB OPENINGS AND PENETRATIONS WITH MECHANICAL DRAWINGS. REINFORCE FLOOR PER TYPICAL DETAILS. 4. REACTIONS SHOWN AT THE END OF BEAMS AND JOISTS ARE MINIMUM FACTORED LOAD

5. COORDINATE ALL ROOF OPENINGS AND PENETRATIONS WITH MEP DRAWINGS. PROVIDE

ADDITIONAL FRAMING PER TYPICAL DETAILS. 6. ALL HSS MEMBERS SHALL HAVE 1/4" CAP PLATES AT EACH END, TYPICAL.

7. ALL EXTERIOR EXPOSED STEEL (IN UNCONDITIONED SPACE) SHALL BE HOT DIP

8. SHADED REGION ON PLAN INDICATES ICC500 STORM SHELTER.

PACKAGE 3 - BUILDING & SITE - ISSUE FOR PERMIT 10/08/20 REVISIONS ASI-01 10/08/20

13-20102-00 STRUCTURAL NOTES

2. THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS SHALL BE RESPONSIBLE FOR DEFINING THE ACTIVITIES OF THE INSPECTORS, FOR CERTIFYING THE QUALIFICATIONS OF THE INSPECTORS WITH THE BUILDING OFFICIAL, AND TO ATTEND THE PRECONSTRUCTION MEETING TO DEFINE THEIR SCOPE OF SERVICES AND THE TESTING OR TEST PROCEDURES THAT ARE REQUIRED AS OUTLINED IN THE INTERNATIONAL BUILDING CODE.

3. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE.

4. CONCRETE: PER SECTION 1705.3 WITH EXCEPTIONS, THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION: ALL CONCRETE EXCEPT SLAB-ON-GRADE, SIDEWALKS, AND DRIVEWAYS. ALL SLABS REQUIRE TESTING FOR FLOOR FLATNESS AND LEVELNESS PER PROJECT SPECIFICATIONS.

8. STEEL CONSTRUCTION: SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. SPECIAL INSPECTION FOR SEISMIC RESISTANCE SHALL BE IN ACCORDANCE WITH AISC 341AND SHALL COMPLY WITH IBC SECTION 1705.12. PROVIDE INSPECTION PER IBC SECTION 1704.2.5 FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP. THESE INSPECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE IF THE FABRICATOR IS NOT AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.1.

7. WELDING: WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1. THE BASIS FOR WELDING INSPECTOR QUALIFICATIONS SHALL BE AWS D1.1. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH AISC TABLE N5.4-1 THROUGH TABLE N5.4-3

8. HIGH STRENGTH BOLTING: INSTALLATION OF HIGH STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH AISC TABLE N5.6-1 THROUGH TABLE N5.6-3.

9. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT SHALL BE PER AISC TABLE N6-1.

10. STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL SHALL BE PER IBC SECTION 1705.2.2 AND REQUIREMENTS OF SDI QA/QC, AND 1705.2.3 FOR OPEN-WEB STEEL JOISTS AND 11. STRUCTURAL MASONRY: MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN

ACCORDANCE WITH TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 AS FOLLOWS: a. ENGINEERED MASONRY IN RISK CATEGORY I, II, OR III STRUCTURES: THE MINIMUM SPECIAL INSPECTION PROGRAM FOR MASONRY SHALL COMPLY WITH LEVEL II QUALITY ASSURANCE, TABLE 4.

b. ENGINEERED MASONRY IN RISK CATEGORY IV STRUCTURES. THE MINIMUM SPECIAL INSPECTION PROGRAM FORMASONRY SHALL COMPLY WITH LEVEL III QUALITY ASSURANCE,

12. GRADING, EXCAVATION AND FILLING: PER SECTION 1705.6. SEE CIVIL DRAWINGS AND SPECIFICATION DIVISION 2.

13. SPRAY-APPLIED FIREPROOFING: PER SECTION 1705.14. SEE ARCHITECTURAL DRAWINGS FOR ALL FIREPROOFING METHODS AND REQUIREMENTS.

14. FIRE RESISTANT PENETRATIONS AND JOINTS: PER SECTION 1705.17 15. NONBEARING EXTERIOR STUD WALLS AND EXTERIOR VENEER: PER SECTION 1705.12.5 WITH

EXCEPTIONS. 16. EXPANSION BOLT, SCREW ANCHOR AND ADHESIVE ANCHOR INSTALLATION TO VERIFY INSTALLATION IN ACCORDANCE WITH ICBO REPORTS NOTED PREVIOUSLY OR APPROVED

17. HEADED CONCRETE SHEAR CONNECTORS: INSPECTED AND TESTED PER AMERICAN

18. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION OF ALL STORM SHELTER DOOR, WINDOW AND PROTECTIVE OPENING DEVICES, INCLUDING THE ANCHORAGE TO WALL/ROOF.

19. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

20. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL.

21. THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONSTRUCTION SCHEDULE WITH THE OWNER'S SPECIAL INSPECTION REPRESENTATIVE IN A TIMELY MANNER AND SHALL NOT PROCEED WITH CONSTRUCTION OF COMPONENTS THAT MAY INTERFERE WITH THE INSPECTORS ABILITY TO PERFORM CODE REQUIRED INSPECTIONS. ANY COST INCURRED ASSOCIATED WITH REMOVAL OF WORK TO PERFORM INSPECTIONS WILL BE BORNE BY THE CONTRACTOR.

23. STEEL DETAILING: THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SUCH AS BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION

TABLE 1705.3				
			F CONCRETE CONSTRUCTION	l
VERIFICATION AND C	ONTINUOUS	PERIODIC	REFERENCED STANDARD a	IBC REFERENCE
Inspect reinforcement, including prestressing tendons, and verify placement	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
Reinforcing bar welding: a. Verify weldability of reinforcing	-	Х		
bars other than ASTM A706 b. Inspect single-pass fillet welds,	-	Х	AWS D1.4 ACI 318: 26.6.4	-
maximum 5/16"; and c. Inspect all other welds	x			
3. Inspection of anchors cast in	-	X	ACI 318: 17.8.2	
concrete		^	7,01010.17.0.2	
Inspection of anchors post-installed in hardened concrete members a. Adhesive anchors installed in.				
horizontally or upward inclined orientations to resist sustained	X	-	ACI 318: 17.8.2.4	-
tension loads b. Mechanical anchors and adhesive anchors not defined in 4.a	-	Х	ACI 318: 17.8.2	
5. Verify use of required design mix.	-	Х	ACI 318: Ch. 19 26.4.3, 26.4.4	1904.1,1904.2, 1908.2 1908.3
 Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests. and determine the temperature of the concrete. 	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	Х	-	ACI 318: 26.5	1908.6,1908.7, 1908.8
Verify maintenance of specified curing temperature and techniques.	-	Х	ACI 318: 26.5.3-26.5.5	1908.9
Inspect prestressed concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing	Х	-	ACI 318: 26.10	-
tendons in the seismic force-resisting system.	X	-		
 Inspect erection of precast concrete members. 	-	X	ACI 318: 26.9	-
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		Х	ACI 318: 26.11.2	-
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.	-	Х	ACI 318: 26.11.1.2(b)	-

a. Where applicable, see also Section 1705.12, Special inspections for seismic resistance. b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACl318 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS			
/ERIFICATION AND INSPECTION TASI LISTED	K CONTINUOUS DURING TASK LIST	ED PERIODICALLY DURING TASK	
. Verify materials below shallow foundations are adequate to achieve	-	X	
the design bearing capacity 2. Verify excavations are extended to proper depth and have reached proper material.	-	X	
. Perform classification and testing of compacted fill materials	•	Х	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	X	-	
 Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. 	-	x	

MASONRY: TMS 402/602-16: Table 3 - Level 2 Quality Assurance				
MINIM	UM TESTS			
Prior to construction, verification of compliance of	of submittals		Art 1.5	
Prior to construciton, verification of f'm and f'ACC	C. except wher	е		
specifically exempted by the Code.	.,		Art 1.4 B	
During construction, verification of Slump flow ar Index (VSI) when self-consolidating grout is deliv	ered to the pro		Art 1.5 &	1.6.3
MINIMUM INSPECTION spection Task Frequency (a) Reference for				Critorio
Inspection Task	Continuous		TMS 402	TMS 602
	Continuous	r criodic	1WO 402	1100 002
1. As masonry construction begins, verify that the	e			
following are in compliance:				
a. Proportions of site-prepared mortar		Χ		Art. 2.1, 2.6 A & 2.6 C
b. Grade and size of prestressing tendons		Χ		Art. 2.4 B,
and anchorages				2.4 H
c. Grade, type and size of reinforcement,		Χ		Art. 3.4 &
connectors, anchor bolts, and				3.6 A
prestressing tendons and anchorages		V		Art. 3.6 B
d. Prestressing technique e. Properties of thin-bed mortar for AAC	X(b)	X X(c)		Art. 2.1 C.1
masonry	\(\(\nu\)\)	A(C)		Δ11. Z. I U. I
f. Sample panel construction		Χ		Art. 1.6 D
2. Prior to grouting, verify that the following are in	h			
compliance:				
a. Grout space		Х		Art. 3.2 D &
			0 4000	3.2 F
b. Placement of prestressing tendons		Χ	Sec 10.8 & 10.9	Art 2.4 & 3.6
and anchorages. c. Placement of reinforcement, connectors,		X	Sec. 6.1, 6.3.1	Art 32F 34
and anchor bolts		Λ	6.3.6 & 6.3.7	AIT. 0.2 L, 0.4
d. Proportions of site-prepared grout and		Х	0.0.0	Art. 2.6 B,
prestressing grout for bonded tendons				& 2.4 G.1.b
Verify compliance of the following during construction:				
a. Materials and procedures with the		Х		Art. 1.5
approved submittals		Λ		741. 1.0
b. Placement of masonry units and mortar		Χ		Art. 3.3 B
joint construction				
c. Size and location of structural elements		Х		Art. 3.3 F
d. Type, size, and location of anchors,		Х	Sec. 1.2.1(e)	
including other details of anchorage of masonry to structural members, frames,			6.2.1 & 6.3.1	
or other construction				
e. Welding of reinforcement	X		Sec. 6.1.6.1.2	
f. Preparation, construction, and protection		Χ		Art. 1.8 C,
of masonry during cold weather (tempera below 40°F (4.4°C)) or hot weather				& 1.8 D
(temperature above 90°F (32.2°C))				
g. Application and measurement of	Х			Art. 3.6 B
prestressing force				
 h. Placement of grout and prestressing grout for bonded tendons is in compliance 	X			Art. 3.5 & 3.6 (
i. Placement of AAC masonry units and	X(b)	X(c)		Art. 3.3 B.9 &
construction of thin-bed mortar joints	'.(~)	(-/		3.3 F.1.b
4. Observe preparation of grout specimens,		X		Art. 1.4 B.2.a.3
mortar specimens, and/or prisms				1.4 B.2.b.3,
				1.4 B.2.c.3,
				1.4 B.3 &
	1		1	1.4 B.4

(a) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table. (b) Required for the first 5000 square feet (465 square meters) of AAC masonry. (c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

AISC 360 TABLE N5.4-1			
Inspection Tasks Prior to Welding			
nspection Tasks Prior to Welding	QC	QA	
Nelder qualification records and continuity records	P	0	
Nelding procedure specifications (WPSs) available	P	P	
Manufacturer certifications for welding consumables available	Р	Р	
Material identification (type/grade)	0	0	
Welder identification system 1	0	0	
Fit-up of groove welds (including joint geometry)			
· Joint preparation			
· Dimensions (alignment, root opening, root face, bevel)	0	0	
· Cleanliness (condition of steel surfaces)			
· Tacking (tack weld quality and location)			
· Backing type and fit (if applicable)			
Configuration and finish of access holes	0	0	
Fit-up of fillet welds			
· Dimensions (alignment, gaps at root)			
· Cleanliness (condition of steel surfaces)	0	0	
· Tacking (tack weld quality and location)			
Check welding equipment	0	-	
1 The fabricator or erector, as applicable, shall maintain a system by which a we be identified. Stamps, if used, shall be the low-stress type.	elder who has welded a joint	or member can	
O- Observe these items on a random basis. Operations need not be delayed pe P- Perform these tasks for each welded joint or member.	nding these inspections.		

Inspection Tasks During Welding	QC	QA
Control and handling of welding consumables		
· Packaging	0	0
· Exposure control		
No welding over cracked tack welds	0	0
Environmental conditions		
· Wind speed within limits	0	0
· Precipitation and temperature		
WPS followed		
· Settings on welding equipment		
· Travel speed		
- Selected welding materials		
· Shielding gas type/flow rate	0	0
· Preheat applied		
Interpass temperature maintained (min./max.)		
· Proper position (F, V, H, OH)		
Welding techniques		
· Interpass and final cleaning		
Each pass within profile limitations	0	0
Each pass meets quality requirements		
Placement and installation of steel headed stud anchors	Р	Р

AISC 360 TABLE N5.4-3 Inspection Tasks After Welding			
Inspection Tasks After Welding	QC	QA	
Welds cleaned	0	0	
Size, length and location of welds	Р	Р	
Welds meet visual acceptance criteria Crack prohibition Weld/base-metal fusion Crater cross section Weld profiles Weld size Undercut Porosity	P	Р	
Arc strikes	Р	Р	
k-area [a]	Р	Р	
Weld access holes in rolled heavy shapes and built-up heavy shapes [b]	Р	Р	
Backing removed and weld tabs removed (if required)	Р	P	
Repair activities	Р	P	
Document acceptance or rejection of welded joint or member	Р	P	
No prohibited welds have been added without the approval of the EOR	0	0	
[a] When welding of doubler plates, continuity plates or stiffeners has been per k-area for cracks within 3 in. (75 mm) of the weld. [b] After rolled heavy shapes (see Section A3.1c) and built-up heavy shapes (svisually inspect the weld access hole for cracks	see Section A3.1d) a	re welded,	
O- Observe these items on a random basis. Operations need not be delayed p	ending these inspec	tions.	

P- Perform these tasks for each welded joint or member.

Inspection Tasks Prior to Bolting Inspection Tasks Prior to Bolting	QC	QA
Manufacturer's certifications available for fastener materials	0	Р
Fasteners marked in accordance with ASTM requirements	0	0
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	0	0
Correct bolting procedure selected for joint detail	0	0
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	0	0
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	Р	0
Proper storage provided for bolts, nuts, washers and other fastener components	0	0

AISC 360 TABLE N5.6-2 Inspection Tasks During Bolting			
Inspection Tasks During Bolting	QC	QA	
Fastener assemblies placed in all holes and			
washers and nuts are positioned as required	0	0	
Joint brought to the snug-tight condition prior to the pretensioning operation	0	0	
Fastener component not turned by the wrench prevented from rotating	0	0	
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	0	0	

AISC 360 TABLE N5.6-3 Inspection Tasks After Bolting			
Inspection Tasks After Bolting	QC	QA	
Document acceptance or rejection of bolted connections	Р	Р	
O- Observe these items on a random basis. Operations need not be delayed pending these inspections. P- Perform these tasks for each welded joint or member.			

TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
TYPE	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED		
I. Installation of open-web steel joists and joist girders.				
a. End Connections - welding or bolted	-	X		
b. Bridging - Horizontal or diagonal				

LLBB

LB (S)

MEZZ

MFR

OPG(S)

QTY

RAD / R

REINF

SCHED

SECT

SLBB

SPA

STIR

SYM

TOS

VERT

XX-STR

STRUCT

RE / REF

FAR SIDE

FOOTING

FIELD VERIFY

GALVANIZED

HORIZONTAL

INTERIOR

POUND (S)

MASONRY

MAXIMUM

MECHANICAL

MEZZANINE

MINIMUM MISCELLANEOUS

NEAR SIDE NOT TO SACLE

ON CENTER

OPENING (S) OPPOSITE

PRELIMINARY

QUANTITY

REFERENCE

SCHEDULE

SPACE (ING) SPECIFICATION (S)

STIRRUP

TOP OF CONCRETE TOP OF MASONRY

UNLESS NOTED OTHERWISE

WELDED WIRE REINFORCEMENT

TOP OF STEEL TYPICAL

EXTRA STRONG

DOUBLE EXTRA STRONG

VERTICAL WIDE FLANGE WEIGHT WORK POINT STEEL TEE SECTION

STRUCTURE

TOP OF

SYMMETRICAL PLATE THICKNESS THREADED TOP AND BOTTOM

SECTION SHEET SIMILAR

SQUARE STANDARD STEEL

REINFORCEMENT REQUIRED REVISION **ROOF TOP UNIT** SHEAR CONNECTOR (S)

RADIUS

OPPOSITE HAND PRECAST CONCRETE

POUNDS PER CUBIC FOOT

POUNDS PER LINEAR FOOT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH POST-TENSION (ED)(ING)

SHORT LEG BACK TO BACK

DOUBLE ANGLE

HEADED STUD ANCHOR

KIPS PER SQUARE FOOT

LONG LEG BACK TO BACK

DEVELOPMENT LENGTH

LONG LEG HORIZONTAL LONG LEG VERTICAL

MOMENT CONNECTION

MANUFACTURE (R)

NOT IN CONTRACT

NORMAL WEIGHT CONCRETE

FLOOR OPENING

ARCHITECTURAL EXTERIOR/CLADDING LINE

LIGHT WEIGHT CONCRETE

HOLLOW STRUCTURAL SHAPE

GENERAL

HANGER

YEILD STENGTH

AISC 360 TABLE N5.6-3 Inspection Tasks After Bolting				
Inspection Tasks After Bolting	QC	QA		
Document acceptance or rejection of bolted connections	Р	Р		
O- Observe these items on a random basis. Operations need not be	e delayed pending thes	e inspections.		

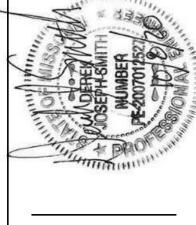
TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
		PERIODICALLY DURING TASK LISTED		
I. Installation of open-web steel joists				
and joist girders.				
a. End Connections - welding or bolted	•	X		
b. Bridging - Horizontal or diagonal				
Standard bridging.	-	Х		
2. Bridging that differs from the SJI				
specifications listed in Section 2207.	-	X		
•				

ABBREVIAT		SYMBOLS AND NOTATIONS	
DOCUMENT	IONS ARE AS SHOWN IN THE CONTRACT 'S WITH THE FOLLOWING EXCEPTIONS: AT	MOMENT CONNECTION	SHEAR (k) / AXIAL (k) SHEAR (k) / AXIAL (k) MOMENT (kft) MOMENT (kft)
@ & AR ADDN AHU	AND ANCHOR ROD ADDITION OR ADDITIONAL AIR HANDLING UNIT	BEAM SPLICE	SHEAR (k)
ADDL ANCH APPROX ARCH	AIR HANDLING ONT ADDITIONAL ANCHOR APPOXIMATE ARCHITECTURAL	COLLECTOR BEAM AXIAL CONNECTION (TENSION OR COMPRESSION, 15k MIN WHERE AXIAL LOAD NOT INDICATED PER PLAN)	SHEAR (k) / AXIAL (k) SHEAR (k) / AXIAL (k)
BLDG BM (S)	BUILDING BEAM (S)	COLUMN CENTER LINE	#
BO BOT BRDG	BOTTOM OF BOTTOM BRIDGING	CMU	SECTION PLAN
BRG BTWN C CANT CIP CJ CJP CL CMU	BEARING BETWEEN CHANNEL CANTILEVER CAST-IN-PLACE CONCRETE CONSTRUCTION/CONTROL JOINT COMPLETE JOINT PENETRATION CENTERLINE CONCRETE MASONRY UNIT	COMPOSITE BEAM	NUMBER OF SHEAR CONNECTORS FOR UNIFORM SPACING LEFT END VERT REACTION (5) (8) (5) REACTION (KIPS) NUMBER OF SHEAR CONNECTORS FOR POINT LOADING (IF APPLICABLE)
COL CONC CONN(S)	COLUMN CONCRETE CONNECTION (S)	CONCRETE	SECTION PLAN
CONST CONT db	CONSTRUCTION CONTINUOUS BAR DIAMETER	EARTH (UNDISTURBED)	SECTION
DBA DET DIA	DEFORMED BAR ANCHOR DETAIL DIAMETER	FLOOR OR ROOF SLOPE	SLOPE
DWA DWL (S) DWG (S)	DEFORMED WIRE ANCHOR DOWEL (S) DRAWING (S)	FLOOR STEP IN ELEVATION	
EA EE EJ	EACH EXTENDED END EXPANSION JOINT	GRAVEL	SECTION SOCIONAL SECTION
EL ELEV EMBED ENGR	ELEVATION ELEVATOR EMBEDMENT ENGINEER	STRUCTURED SLAB OR METAL DECK SPAN DIRECTION	
EOS EOD	EDGE OF SLAB EDGE OF DECK	PRECAST CONCRETE	SECTION PLAN PLAN
EQ EQUIP EQUIV	EQUAL EQUIPMENT EQUIVALENT	GROUT	SECTION
EW EXIST EXP	EACH WAY EXISTING EXPANSION	ROCK	SECTION
EXT FA FAB	EXTERIOR FACE FABRICATE	TOP OF STEEL ELEVATION FROM NOTED TOS	<+2 1/2"> OR <-2 1/2">
F'c FD FDN	28 DAY CONCRETE STRENGTH FLOOR DRAIN FOUNDATION	WELDED WIRE REINFORCEMENT	
FIN FL	FINISH (ED) FLOOR	KEYNOTE MARK	#

KEYNOTE MARK **(***) COLUMN MARK FOOTING MARK CONCRETE COLUMN MARK STEEL BRACED FRAME BAY _ _ _ _ _ _ _ MATCHLINE REVISION MARK ____ DETAIL NUMBER CROSS REFERENCE - SHEET ON WHICH DRAWN DETAIL REFERENCE DETAIL OR WALL SECTION FRAME OR SHEAR WALL ELEVATION ELEVATION DATUM MARK

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

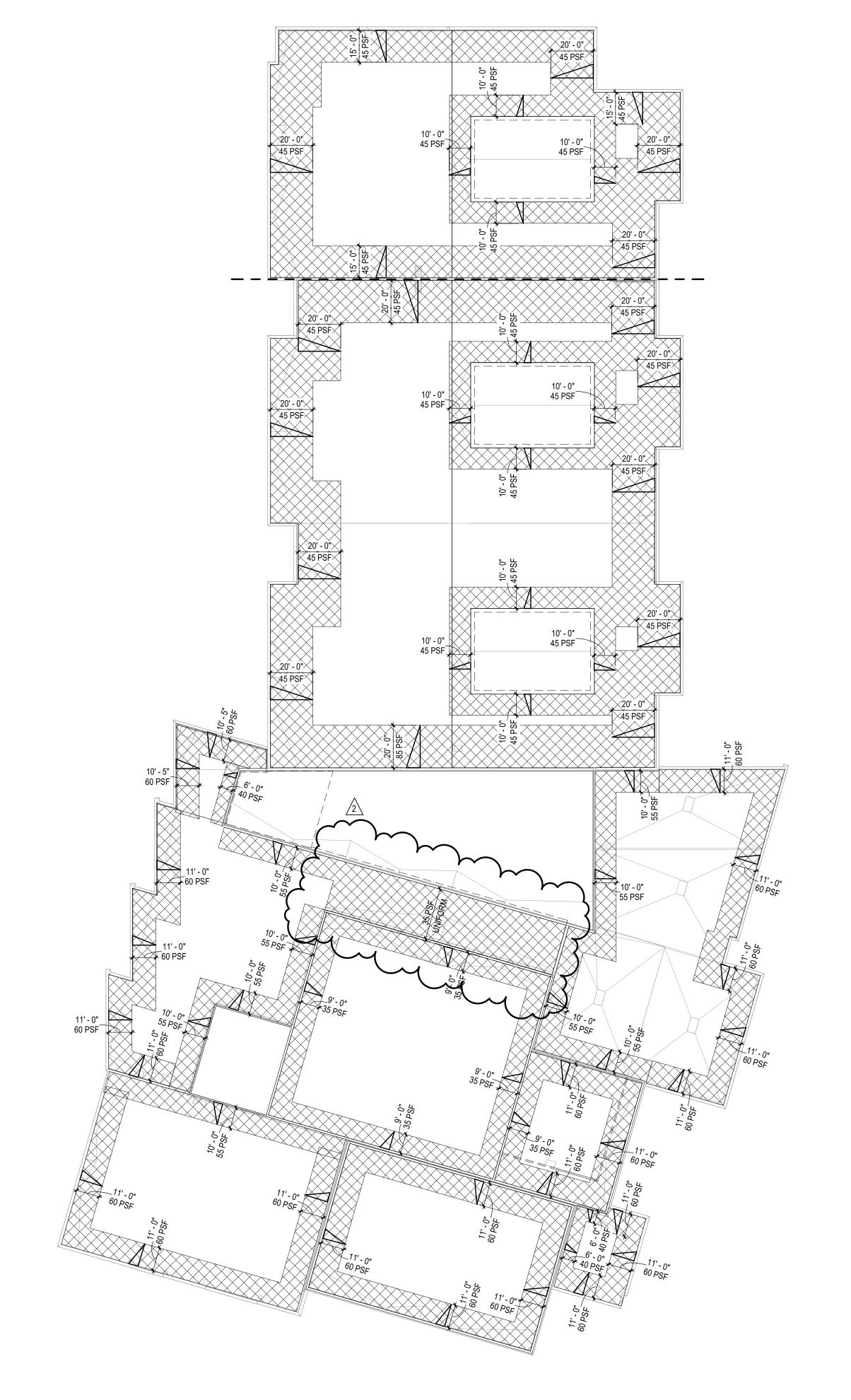


SLAB EDGE

PACKAGE 3 - BUILDING & SITE - ISSUE FOR PERMIT 10/08/20 REVISIONS PR001 11/11/20

13-20102-00 STRUCTURAL NOTES

S0.2

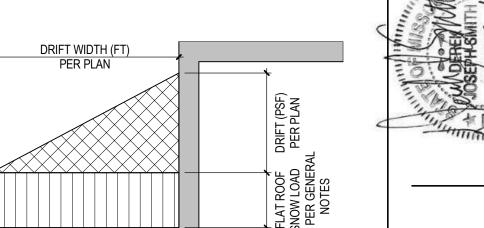


SNOW DRIFT PLAN

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

SNOW DRIFT NOTES:

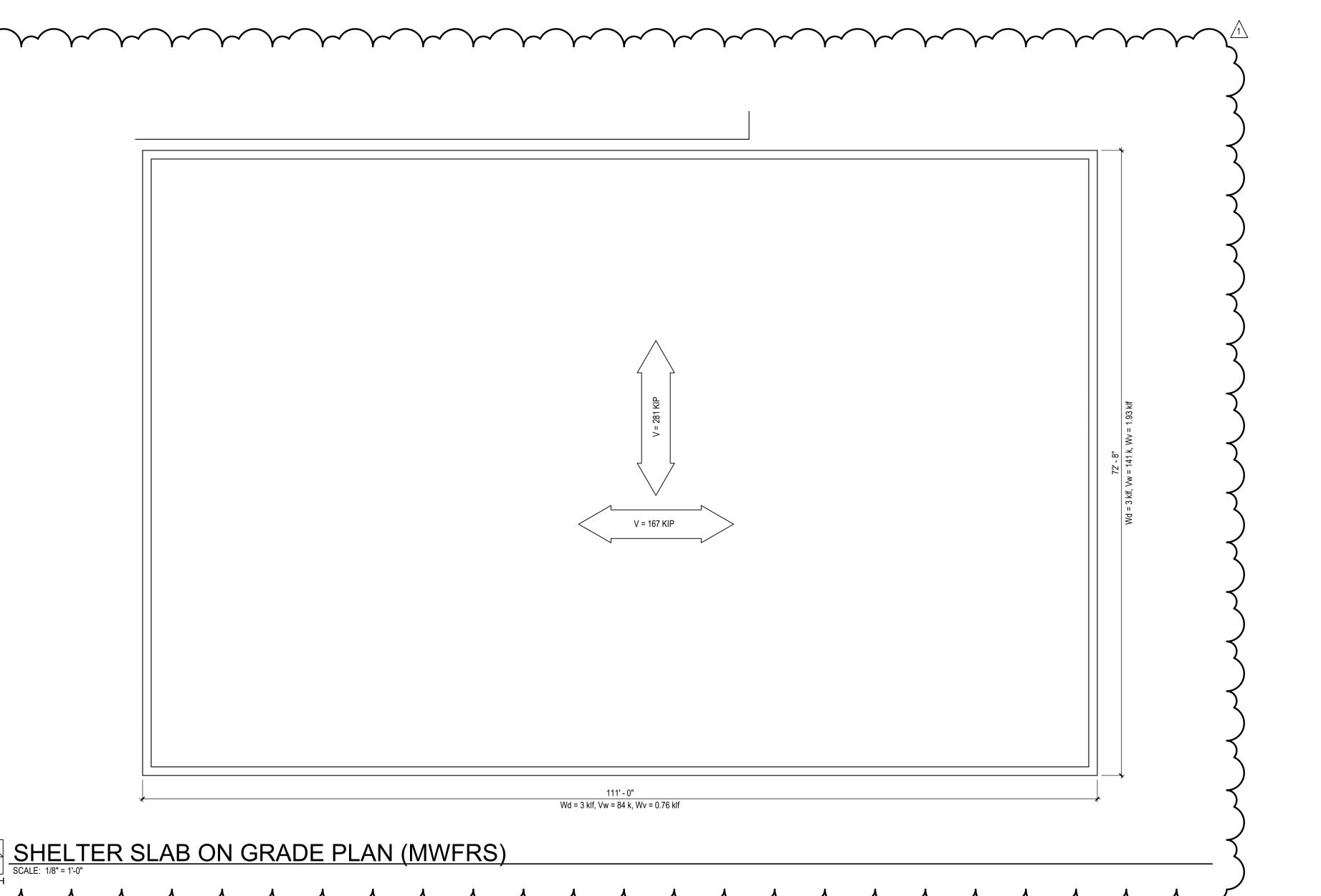
- JOIST SUPPLIER SHALL DISTRIBUTE LOADS TO JOIST BASED ON TRIBUTARY SPACING OF JOISTS
- 2. ALL SPECIAL JOIST CALCULATIONS MUST BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE WORK AND SUBMITTED WITH
- HSOP DRAWINGS FOR REVIEW. SUBMIT A REQUEST FOR INFORMATION (RFI) FOR INFORMATION NOT SPECIFICALLY NOTED ON THE DRAWINGS 3. JOIST SUPPLIER SHALL DESIGN JOISTS FOR ALL LOADS INDICATED IN THE GENERAL NOTES (S0.1, S0.2), ROOF SNOW DRIFT PLAN (S0.3), ON
- THE PLAN SHEETS AND ON THE DETAILS / SECTION SHEETS. CONTRACTOR TO COORDINATE ALL WEIGHTS AND LOCATIONS OF EQUIPMENT WITH THE JOSIT SUPPLIER PRIOR TO SUBMITTING JOIST SHOP DRAWINGS
- 4. SNOW DRIFT LOADS ARE IN ADDITION TO FLAT ROOF SNOW LOADS ON SHEET S0.1



CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

SHELTER ROOF PLAN (MWFRS)

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



STRUCTURAL NOTES

EACH CONNECTION FOR VERIFICATION OF LOAD PATH.

ENERAL STORM SHELTER NOTES:

1. THE PORTION OF STRUCTURE SHOWN ON THIS SHEET IS BASED ON STRUCTURAL RECOMMENDATIONS LISTED IN ICC 500-2014 "ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS". SHELTER HAS NOT BEEN CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO FLOODING.

2. ALL COMPONENTS THAT MAKE UP THE STORM SHELTER AREA, INCLUDING DEFERRED SUBMITTALS, SHALL BE DESIGNED IN STRICT ACCORDANCE WITH ICC 500 STANDARDS. CALCULATIONS SHALL BE PROVIDED AT

3. STORM SHELTER WALL AND SLAB ASSEMBLIES HAVE BEEN SELECTED BASED ON ICC 500 AND FEMA 361 RECOMMENDATIONS. NO ADDITIONAL TESTING OR ANALYSIS HAS BEEN PERFORMED TO ESTIMATE THE

DYNAMIC IMPACT OF OBJECTS FOUND IN THE ACTUAL ENVIRONMENT AGAINST THE STRUCTURE.

4. REFER TO ARCHITECTURAL, CIVIL, MEP DRAWINGS FOR STORM SHUTTERS, DOORS, WINDOWS AND

ATTACHMENT OF THESE COMPONENTS TO THE BUILDING STRUCTURE.

5. DIAPHRAGM SHEARS HAVE BEEN DISTRIBUTED BASED ON A RIGID DIAPHRAGM ASSUMPTION AND ARE SHOWN AS STRENGTH (ULTIMATE) LEVEL WIND FORCES.

6. LOWER LEVEL SLAB-ON-GRADE IS USED AS A STRUCTURAL DIAPHRAGM DISTRIBUTING FORCES TO THE FOUNDATIONS. CONTRACTOR SHALL SUBMIT A POUR PLAN FOR REVIEW SHOWING PLANED LOCATIONS FOR CONSTRUCTION JOINTS.

SHELTER TYPE: COMMUNITY TORNADO

WIND LOADS:
IN ACCORDANCE WITH ASCE 7-10, CHAPTER 26 AND 27 DIRECTIONAL PROCEDURE
BASIC WIND SPEED V = 250 MPH

PARTIALLY ENCLOSED, EXPOSURE CATEGORY = "C" Kzt = 1.0

Kd= 1.0 GCpi = +-0.55

ROOF: 100 PSF

LOAD COMBINATIONS:

1. ALL WIND LOADS SHOWN ON THIS SHEET ARE STRENGTH (ULTIMATE) LEVEL LOADS AND SHALL BE APPLIED WITH THE FOLLOWING LOAD COMBINATIONS IN ADDITION TO THE STANDARD LOAD COMBINATIONS OF ASCE7-10 CHAPTER 2. COMBINATIONS INDICATED AS N/A ARE SEISMIC LOAD CONDITIONS THAT WILL NOT GOVERN IN THE DESIGN.

LRFD
1) 1.4D
2) 1.2D + 1.6L + 0.5(Lr or S)
3) 1.2D + 1.6(Lr or S) + (L or 0.5Wx)
4) 1.2D + 1.0Wx + L +0.5(Lr or S)
5) NA
6) 0.9D + 1.0Wx
7) NA
7) NA
7) NA
7 0.6D + 0.6Wx
7 0.6D + 0.6Wx

6) D + 0.75L + 0.75(0.6Wx) + 0.75(Lr or S) 7) 0.6D + 0.6Wx 8) N/A

Wx = EXTREME WIND EVENT WIND LOAD

TORNADO MISSILE IMPACT CRITERIA:

ALL LOAD CONDITION DESIGNATIONS ARE PER ASCE 7-10 EXCEPT THE FOLLOWING:

1. MANUFACTURERS SHALL PROVIDE DATA INDICATING THAT ALL STRUCTURAL PRODUCTS MEET THE IMPACT CRITERIA TEST REQUIRED BY ICC-500 INCLUDING THE IMPACT FROM THE END OF A 15-LB 2x4 AT THE FOLLOWING VELOCITY:

a. VERTICAL SURFACES = 100 MPH

b. HORIZONTAL SURFACES = 67 MPH

2. ALL COMPONENTS OF THE STORM SHELTER ENVELOPE SHALL BE TESTED IN ACCORDANCE WITH ICC-500, SECTION 304 (PRESSURE) AND SECTION 305 (IMPACT).

QUALITY ASSURANCE, SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS FOR STORM SHELTER (ICC 500-2014):

THE FOLLOWING SPECIAL INSPECTION REQUIREMENTS SHALL BE PREFORMED ON ALL STORM SHELTER COMPONENTS IN ADDITION TO SPECIAL INSPECTION REQUIREMENTS AS STATED IN 2015 IBC ON SHEET S0.2.

QUALITY ASSURANCE FOR WIND REQUIREMENTS PLAN SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1705 FOR ALL COMPONENTS MAKING UP THE STRUCTURAL SYSTEM OF THE STORM SHELTER AS FOLLOWS:

 A THE MAIN WIND-FORCE-RESISTING SYSTEM THAT IS SUBJECT TO QUALITY ASSURANCE ARE TO

2. PRECAST CONCRETE SHEAR WALLS INCLUDING CONNECTION TO DIAPHRAGMS, WALL PANEL TO PANEL CONNECTIONS AND PANEL TO FOOTING CONNECTIONS.

3. CONCRETE FOUNDATIONS

4. FABRICATION AND INSTALLATION OF COMPONENTS AND ASSEMBLIES AT SHELTER

1. PRECAST CONCRETE ROOF STRUCTURE, INCLUDING ROOF DIAPHRAGM CONNECTIONS, REINFORCEMENT, CHORDS, COLLECTORS, AND CONNECTIONS TO SHEAR WALLS

ENVELOPE REQUIRED TO MEET MISSLE IMPACT TESTING OF ICC 500 INCLUDING DOORS, WINDOWS, AND OPENING PROTECTION DEVICES.

S0.2 AND THE ADDITIONAL REQUIREMENTS OF SECTION 1706 OF THE IBC. MATERIALS TESTING REQUIRED IS INDICATED UNDER THE SPECIFICATION FOR EACH MATERIAL.

c. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL

EMPLOYED BY THE OWNER TO CONDUCT VISUAL OBSERVATIONS OF THE CONSTRUCTION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE CONSTRUCTION OF THE STRUCTURAL SYSTEM.

d. DISTRIBUTION OF OBSERVATION, TESTING AND SPECIAL INSPECTION REPORTS SHALL BE WITHIN TWENTY-FOUR (24) HOURS AFTER EACH SPECIAL INSPECTION, SUBMIT TWO (2) COPIES OF INSPECTION REPORTS TO THE CONTRACTOR, ARCHITECT AND BUILDING OFFICIAL.

2. CONTRACTOR RESPONSIBILITY: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN-FORCE RESISTING SYSTEM, OR A WIND-RESISTING COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN, SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENTS. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:

a. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.

b. ACKNOWLEDGE THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITHIN THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

c. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION THE METHOD AND FREQUENCY OF REPORTING, AND DISTRIBUTION OF THE REPORTS.

d. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION IN THE ORGANIZATION.

COMPONENT AND CLADDING WIND LOADS:
ALL LOADS SHALL BE CONSIDERED AS POSITIVE OR NEGATIVE.

1. WALLS: Wx = 250 PSF (ZONE 4, TYP)
Wx = 300 PSF (ZONE 5, WITHIN 8'-0" OF CORNERS)

2. PARAPETS: Wx = 520 PSF (CASE A ZONE 2) Wx = 520 PSF (CASE A ZONE 3)

Wx = 310 PSF (CASE B INTERIOR) Wx = 350 PSF (CASE B CORNER)

3. ROOFS: Wx = 360 PSF (UPLIFT ZONE 1)
Wx = 240 PSF (UPLIFT ZONE 1')
Wx = 460 PSF (UPLIFT ZONE 2)
Wx = 460 PSF (UPLIFT ZONE 3)

Wx = 240 PSF (POSITIVE ZONE 2 & 3)

MAIN WIND FORCE RESISTING SYSTEM LOADS (MWFRS):

Wx = 140 PSF (POSITIVE ZONE 1 & 1')

Wx = 200 PSF (WINDWARD) Wx = 160 PSF (LEEWARD)

Wd= 3,000 PLF

Wx = 185 PSF (SIDE WALL)
USE 200 PSF AGAINST WALL IN EACH ORTHOGONAL DIRECTION

Wx = 210 PSF (ROOF UPLIFT PRESSURE) Wx = 250 PSF (WINDWARD NET PARAPET PRESSURE) Wx = 170 PSF (LEEWARD NET PARAPET PRESSURE)

NOTATIONS:

V = TOTAL DIAPHRAGM SHEAR DUE TO EXTREME WIND EVENT IN DIRECTION INDICATED.

Wd = UNIFORMLY DISTRIBUTED LOAD APPLIED TO ROOF DIAPHRAGM (PERPENDICULAR TO WALL)

Vw = TOTAL SHEAR LOAD RESISTED BY THE ENTIRE LENGTH OF SHEAR WALL FROM DIAPHRAGM (PERPENDICULAR TO WALL)

Vw = TOTAL SHEAR LOAD RESISTED BY THE ENTIRE LENGTH OF SHEAR WALL FROM DIAPHRAGM FORCE DISTRIBUTION
Wv = DIAPHRAGM SHEAR WALL FORCE OVER THE LENGTH OF THE WALL (PARALLEL TO WALL)

WV = DIAPHRAGM SHEAR WALL FORCE OVER THE LENGTH OF THE WALL (PARALLEL TO WALL)

SHELTER WINDWARD WALL SECTION (MWFRS)

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

TO PARAPET PER PLAN

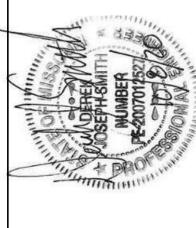
TO ROOF PER PLAN

TO SLAB
100'-0"
TO FOOTING
VARIES



RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

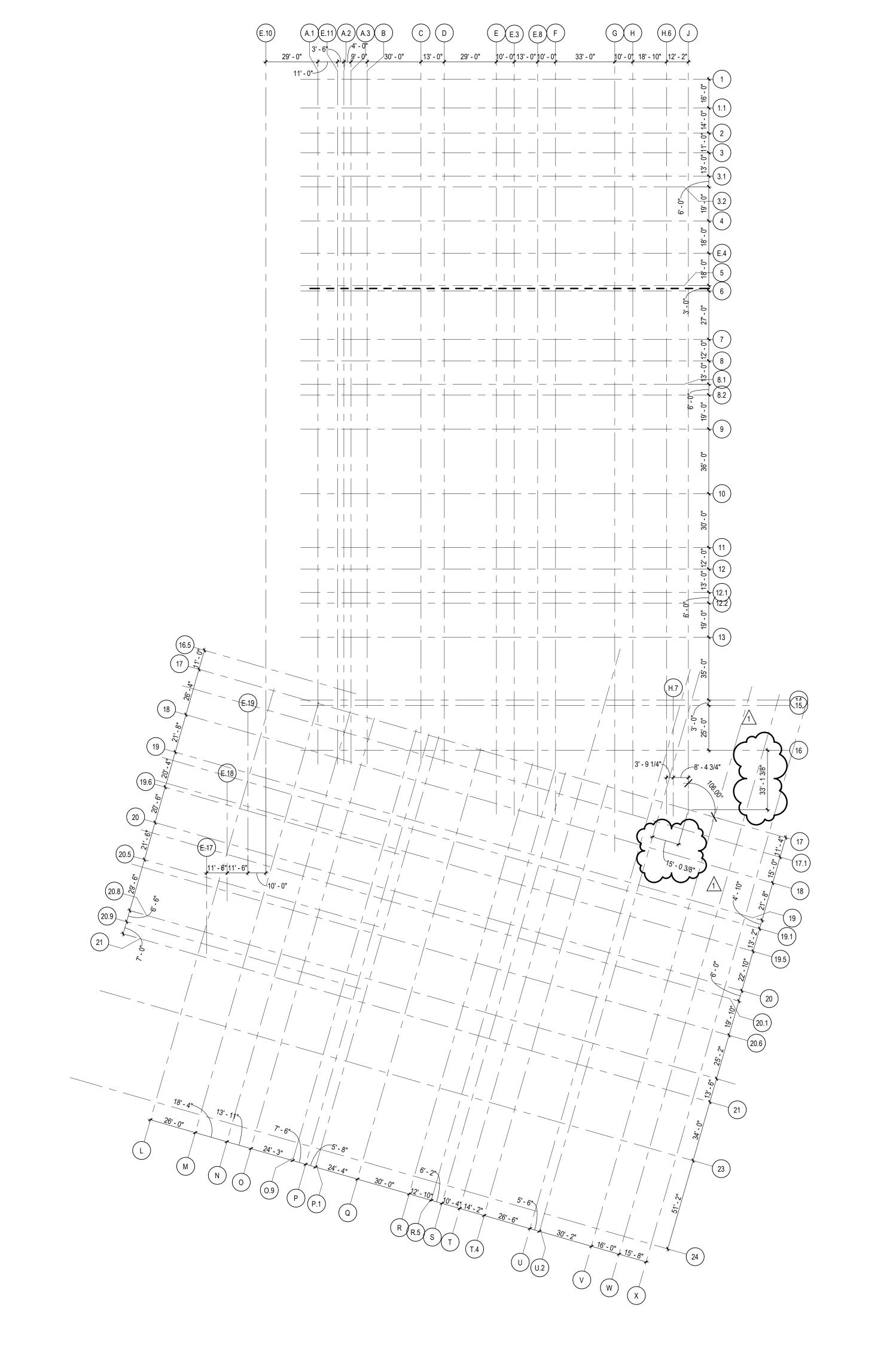


LEE'S SUMMIT R-7 SCHOOL DISTRICT

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- ISSUE FOR PERMIT
10/08/20
REVISIONS
1 PR001 11/11/20

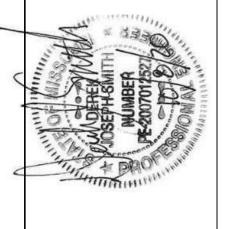
13-20102-00
STORM SHELTER
STRUCTURAL
CRITERIAL

S_{0.4}



RELEASE FOR

CONSTRUCTION
S NOTED ON PLANS REVIES
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



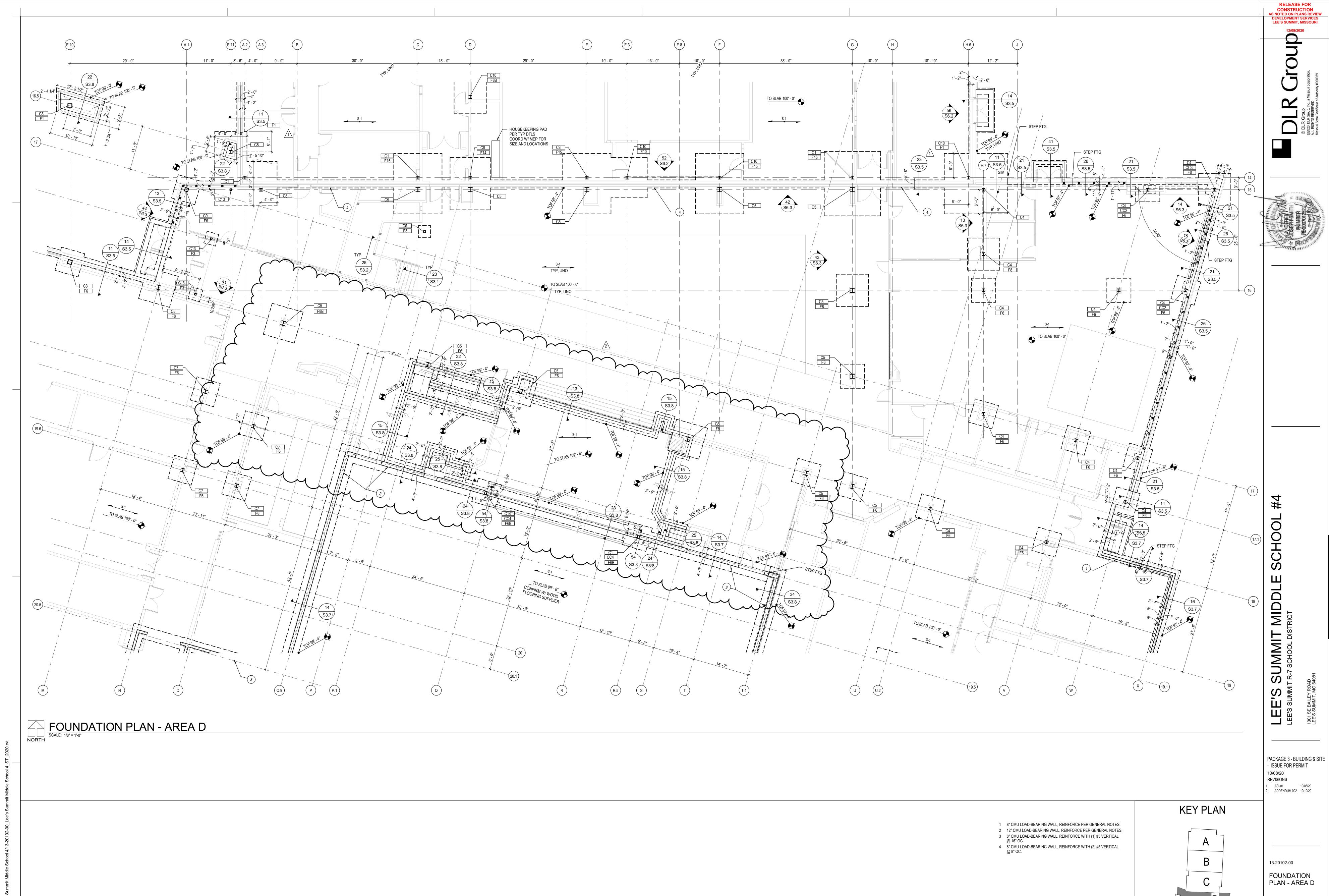
S0.5

GRID GEOMETRY PLAN

13-20102-00

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10/08/20
REVISIONS
1 ADDENDUM 002 10/19/20

LEE'S SUMMIT R-7 SCHOOL DIST



FOUNDATION PLAN - AREA D

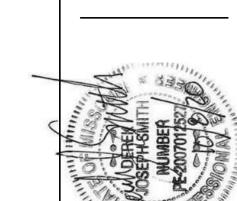
S1.1D



8" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES.

12" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES L 8" CMU LOAD-BEARING WALL, REINFORCE WITH (1) #5 VERTICAL

CONSTRUCTION
AS NOTED ON PLANS REVIEV
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

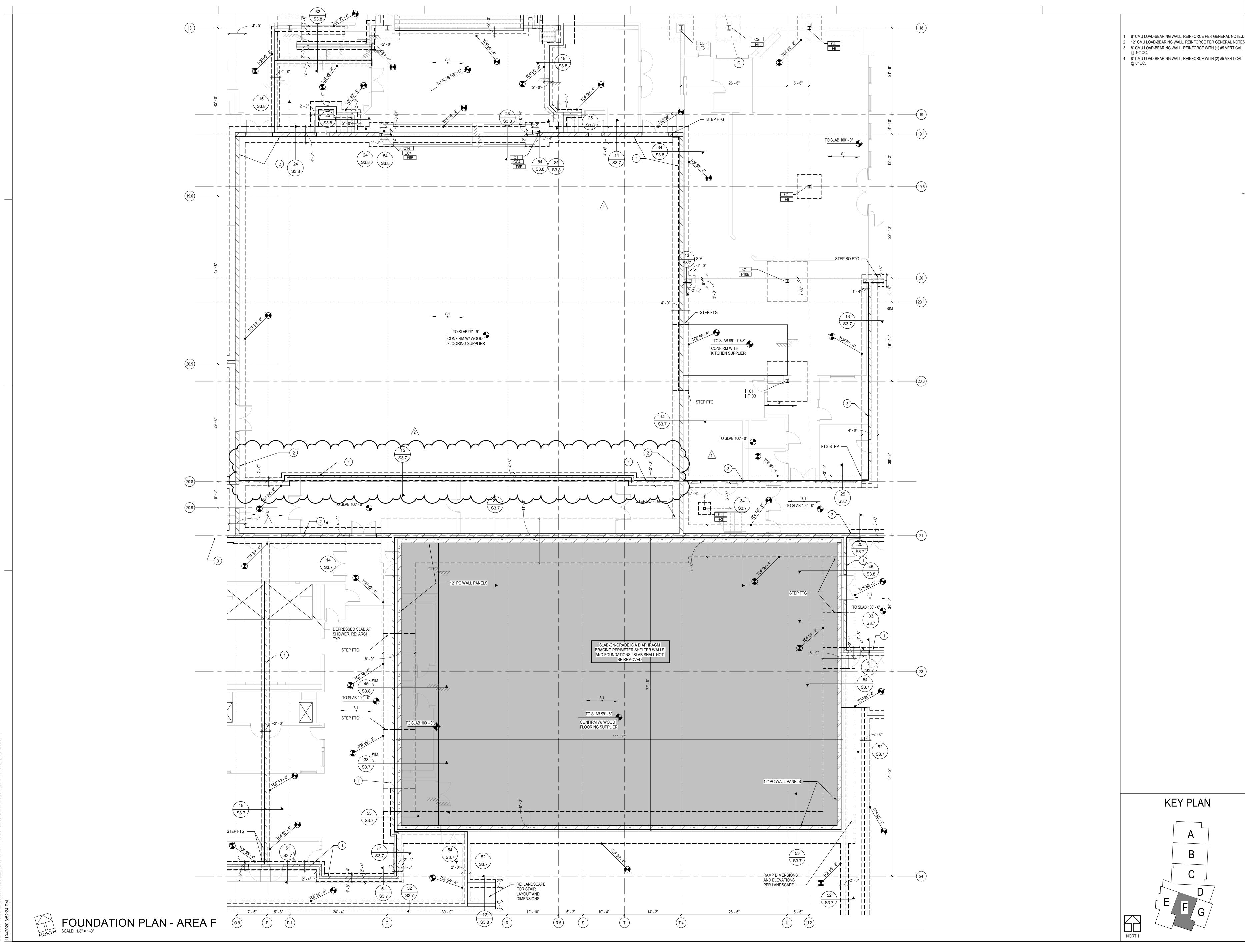


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ADDENDUM 002 10/19/20

13-20102-00 FOUNDATION PLAN - AREA E

S1.1E



8" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES. L 2 12" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES. 8 8" CMU LOAD-BEARING WALL, REINFORCE WITH (1) #5 VERTICAL

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LEE'S SUMMIT, MISSOURI



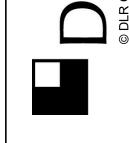
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13-20102-00 FOUNDATION PLAN - AREA F

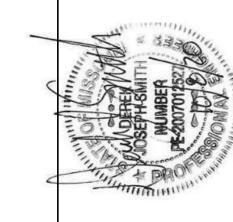
S1.1F

8" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES 12" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES. -8" CMU LOAD-BEARING WALL, REINFORCE WITH (1) #5 VERTICAL @ 16" OC.

8" CMU LOAD-BEARING WALL, REINFORCE WITH (2) #5 VERTICAL @ 8" OC.

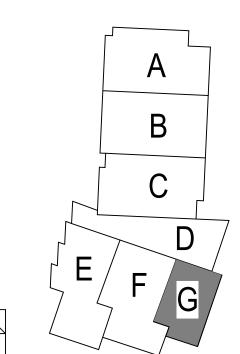


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KEY PLAN



13-20102-00 FOUNDATION PLAN - AREA G

S1.1G

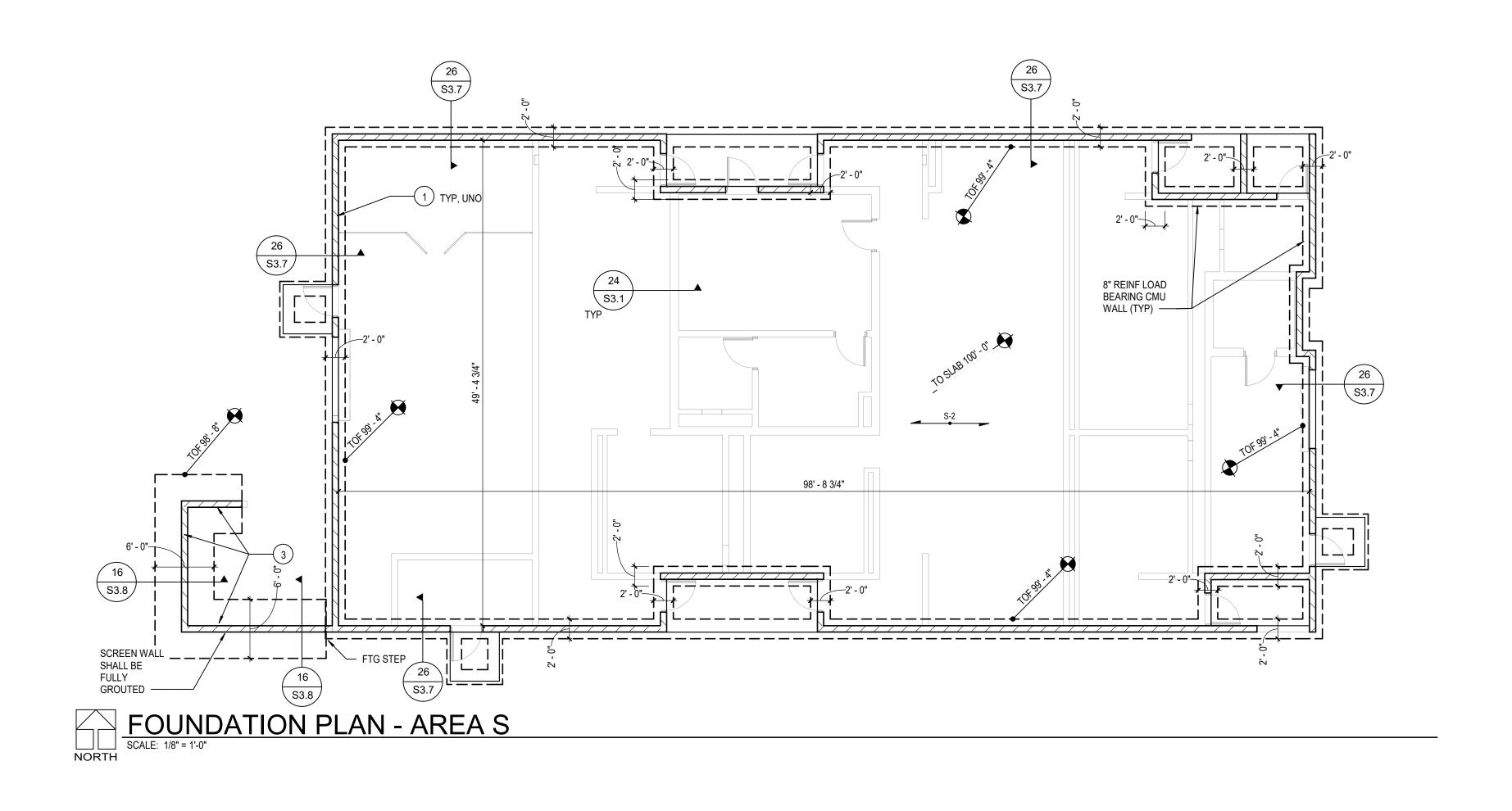
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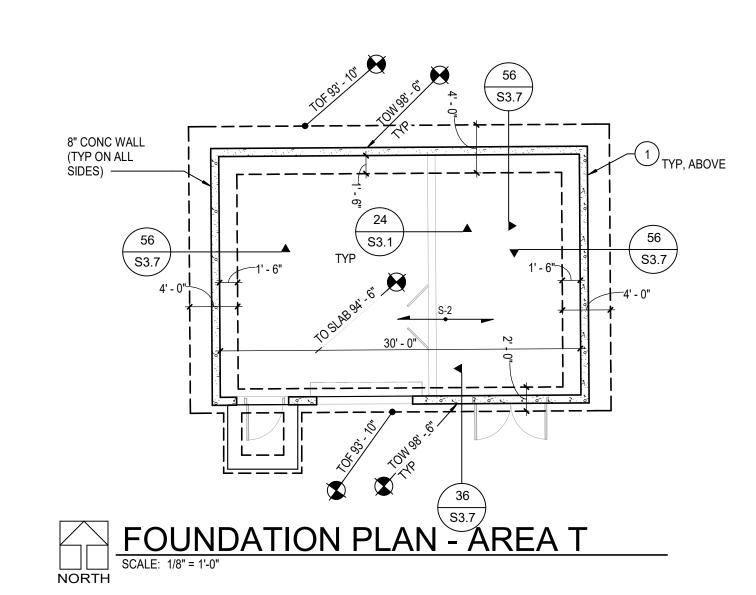


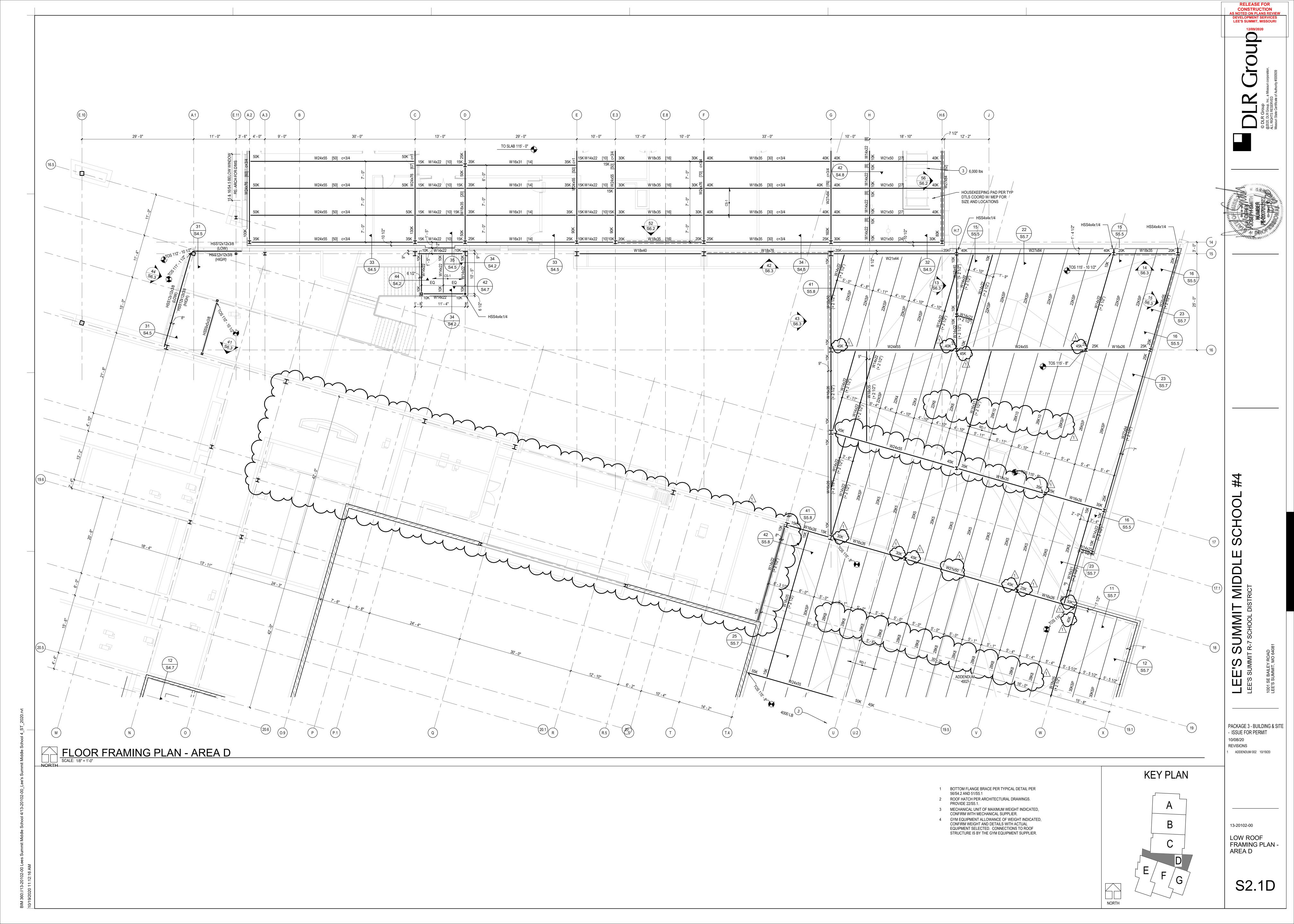
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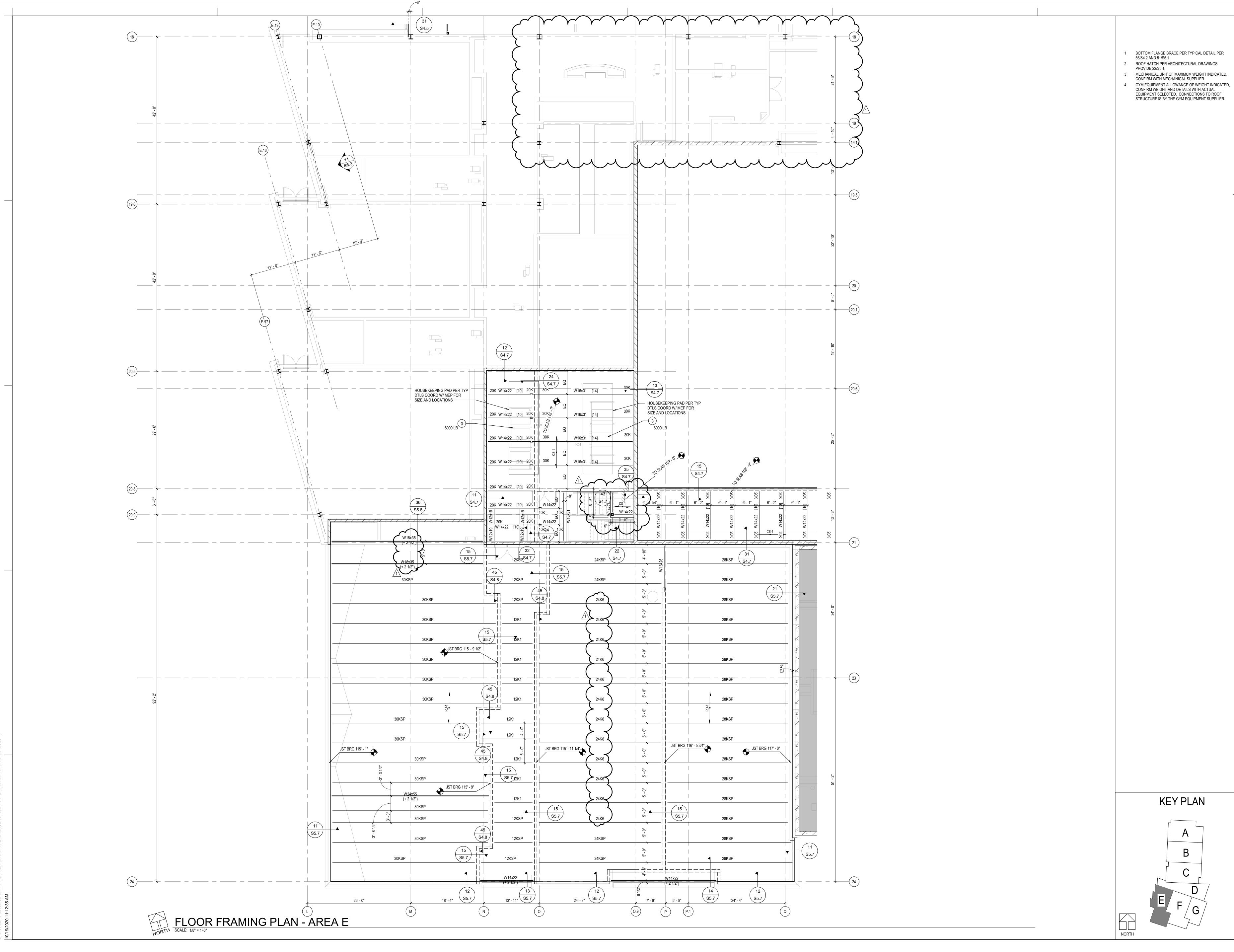
13-20102-00 FOUNDATION PLAN AREAS S &

S1.1S



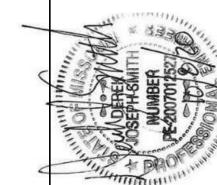






RELEASE FOR

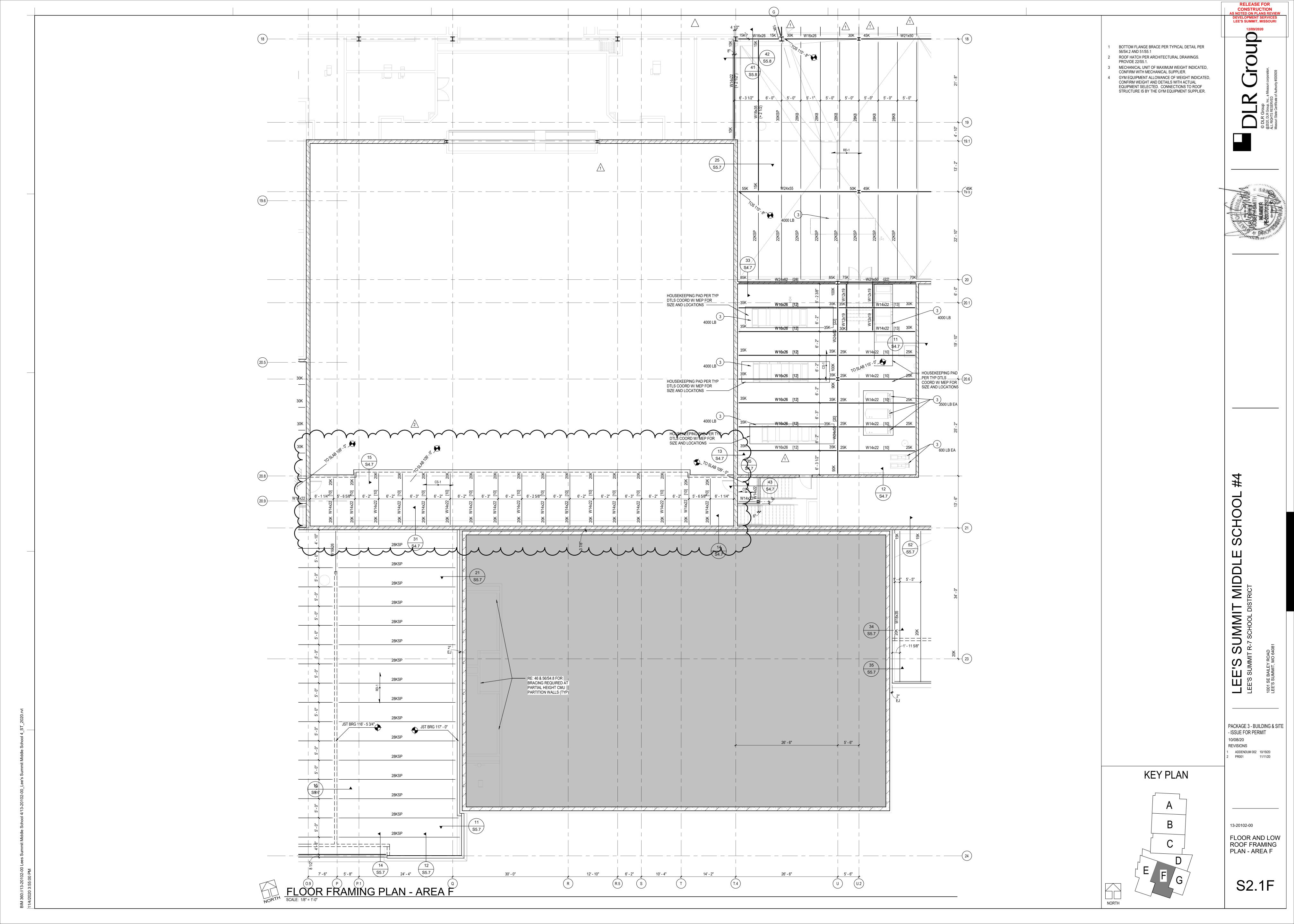
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S NOTED ON PLANS REVIEW
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13-20102-00 FLOOR AND LOW ROOF FRAMING PLAN - AREA E

S2.1E



56/S4.2 AND 51/S5.1 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/S5.1.

3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.

4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED, CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



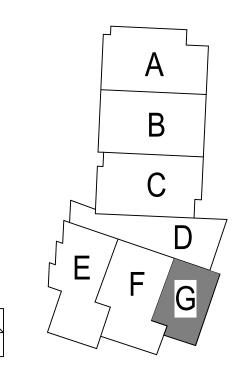
CONSTRUCTION
S NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES

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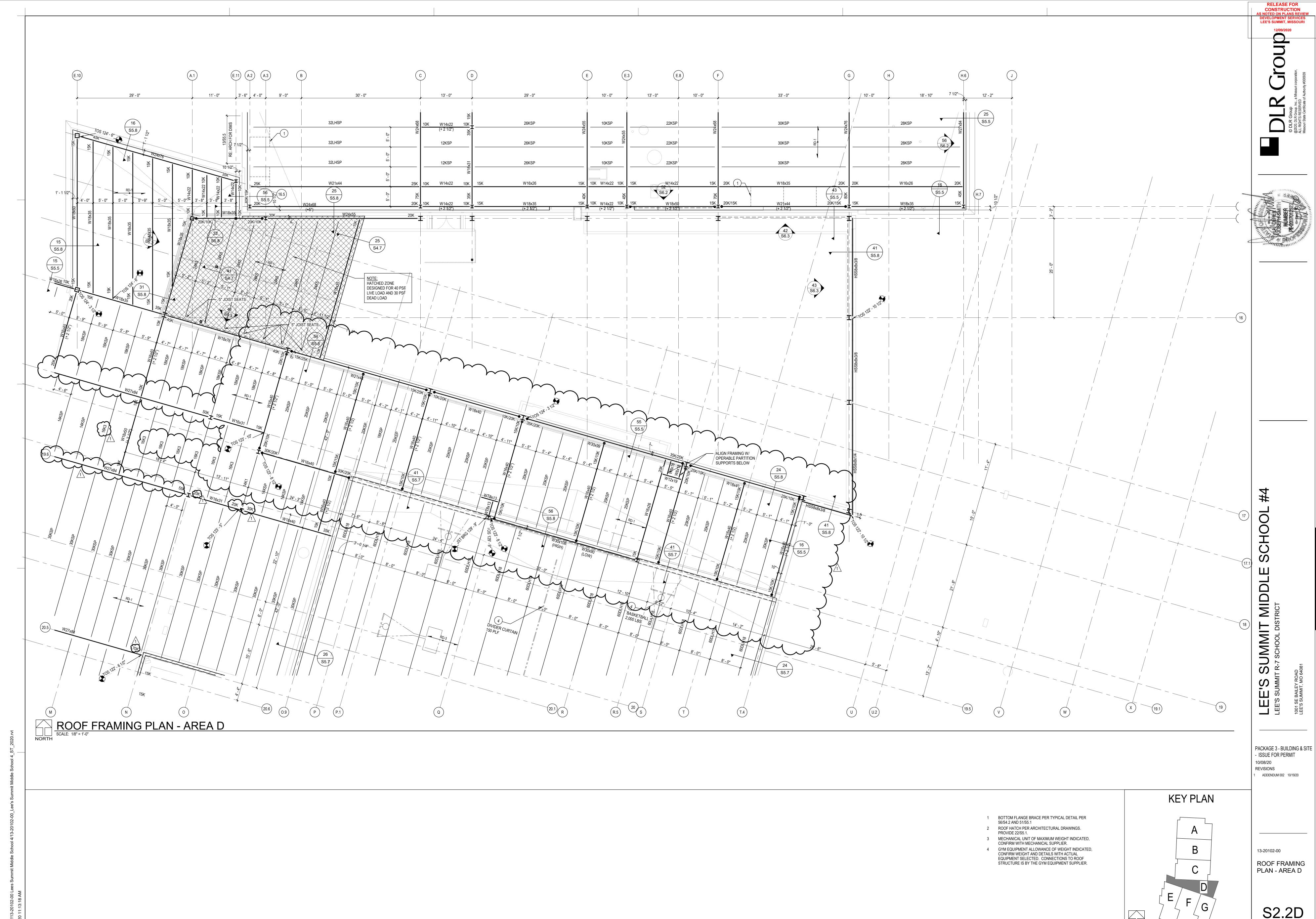
PACKAGE 3 - BUILDING & SITE - ISSUE FOR PERMIT 10/08/20 REVISIONS ADDENDUM 002 10/19/20

KEY PLAN

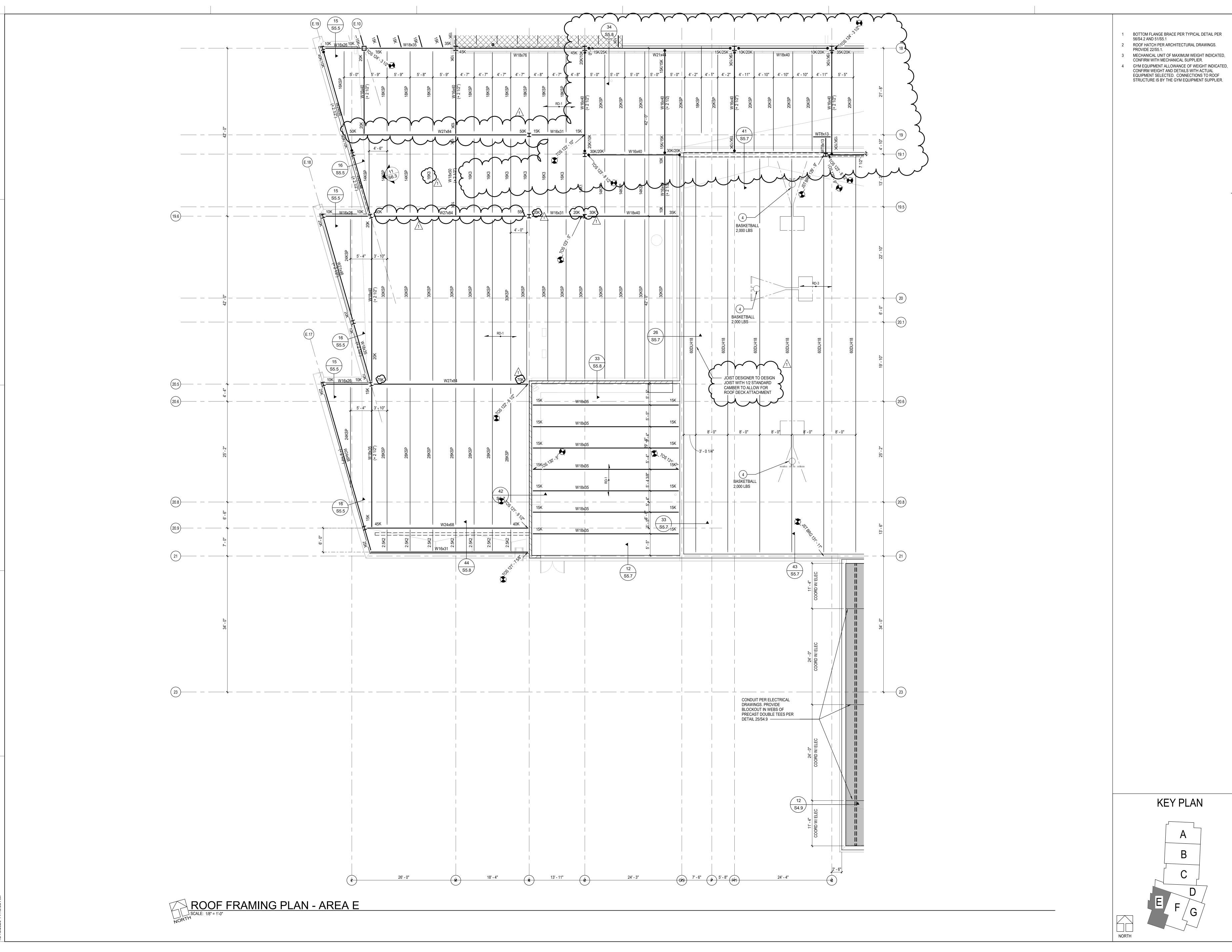


13-20102-00 FLOOR AND LOW ROOF FRAMING PLAN - AREA G

S2.1G



S2.2D

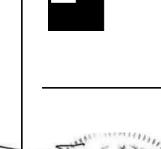


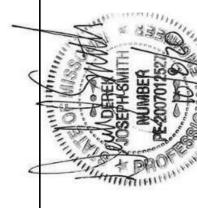
3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.

RELEASE FOR

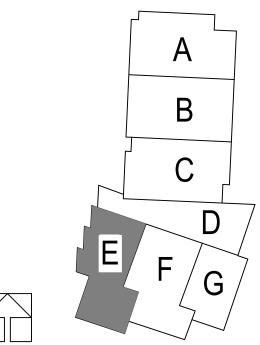
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CONSTRUCTION
S NOTED ON PLANS REVIEW
DEVEL OPMENT SERVICES



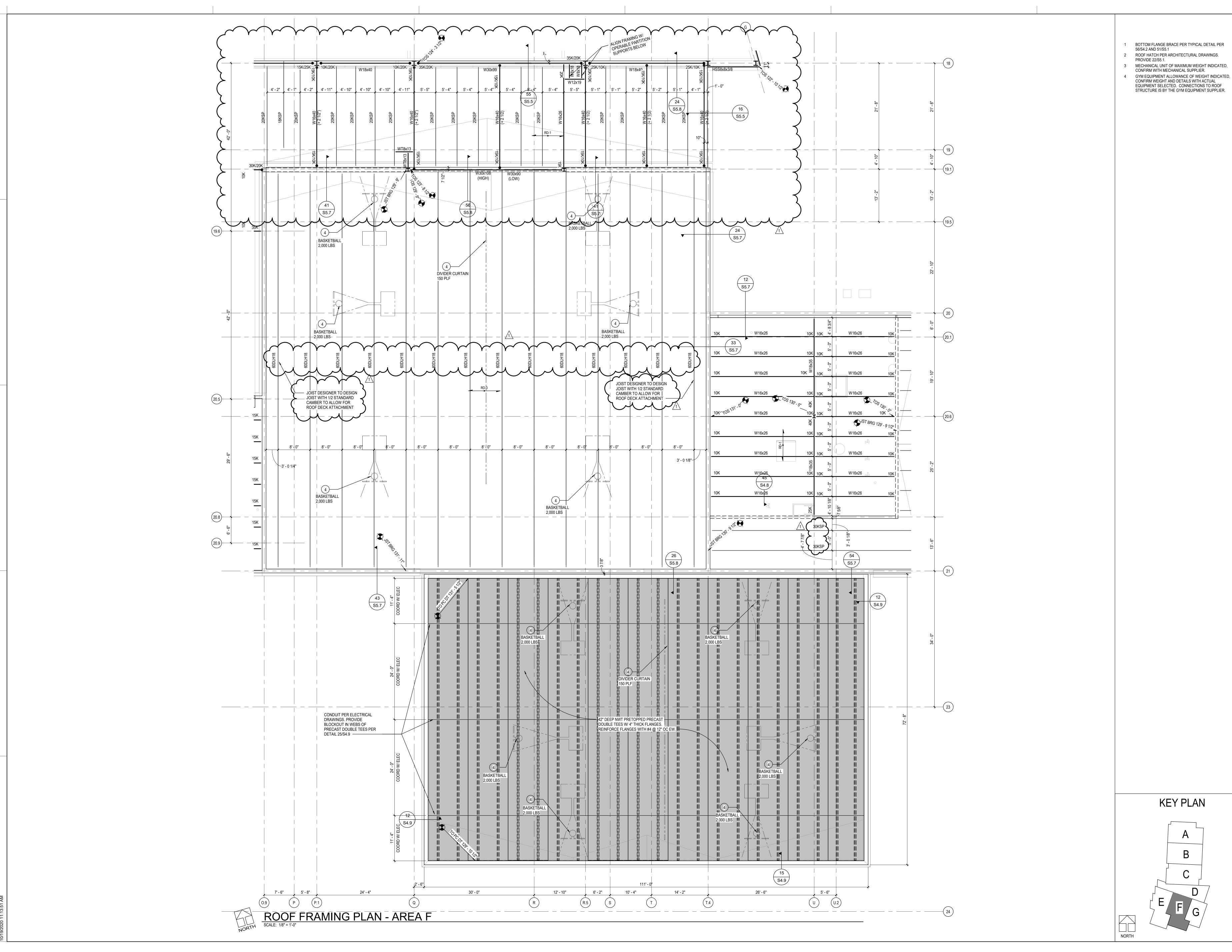


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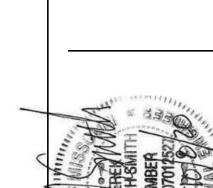
13-20102-00 ROOF FRAMING PLAN - AREA E

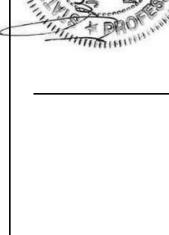
S2.2E



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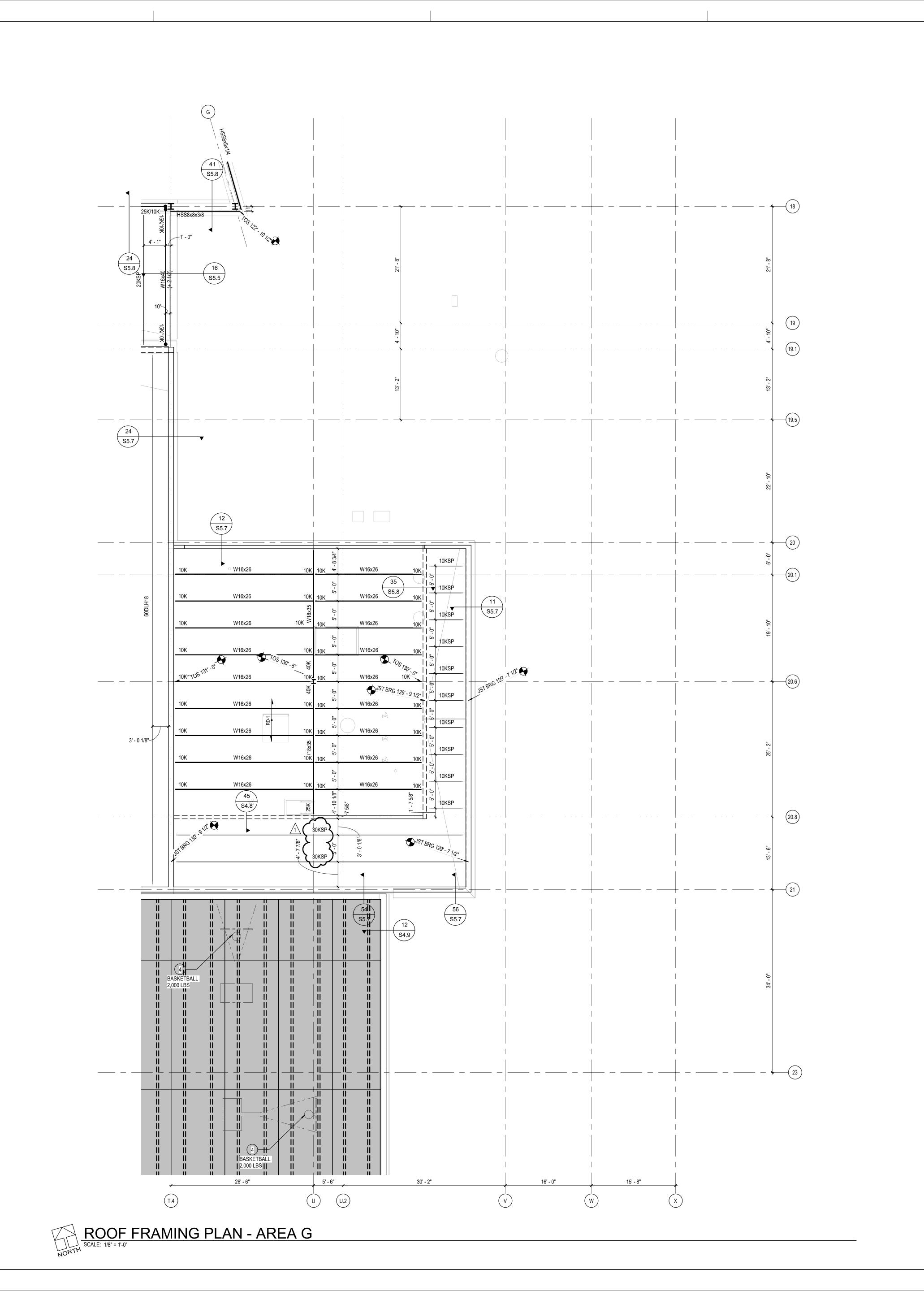


SUMMIT MIDDLE
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13-20102-00 ROOF FRAMING PLAN - AREA F

S2.2F



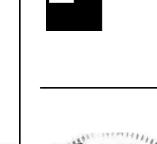
56/S4.2 AND 51/S5.1

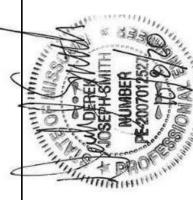
2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/S5.1.

3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED,
CONFIRM WITH MECHANICAL SUPPLIER.
4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED,
CONFIRM WEIGHT AND DETAILS WITH ACTUAL
EQUIPMENT SELECTED. CONNECTIONS TO ROOF
STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

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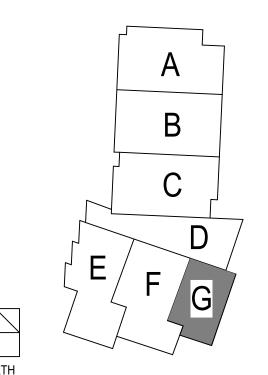




EE'S SUMMIT MIDDLE SCHOOL #4

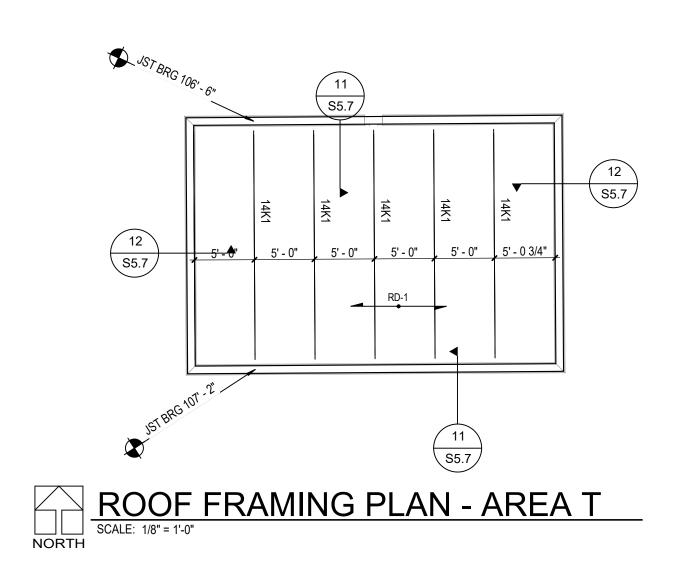
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KEY PLAN



13-20102-00 ROOF FRAMING PLAN - AREA G

S2.2G



1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 56/S4.2 AND 51/S5.1

56/S4.2 AND 51/S5.1 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/S5.1.

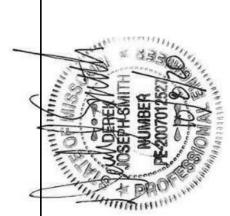
PROVIDE 22/S5.1.

3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.

4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED, CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



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13-20102-00

ROOF FRAMING
PLAN - AREAS S &

S2.2S

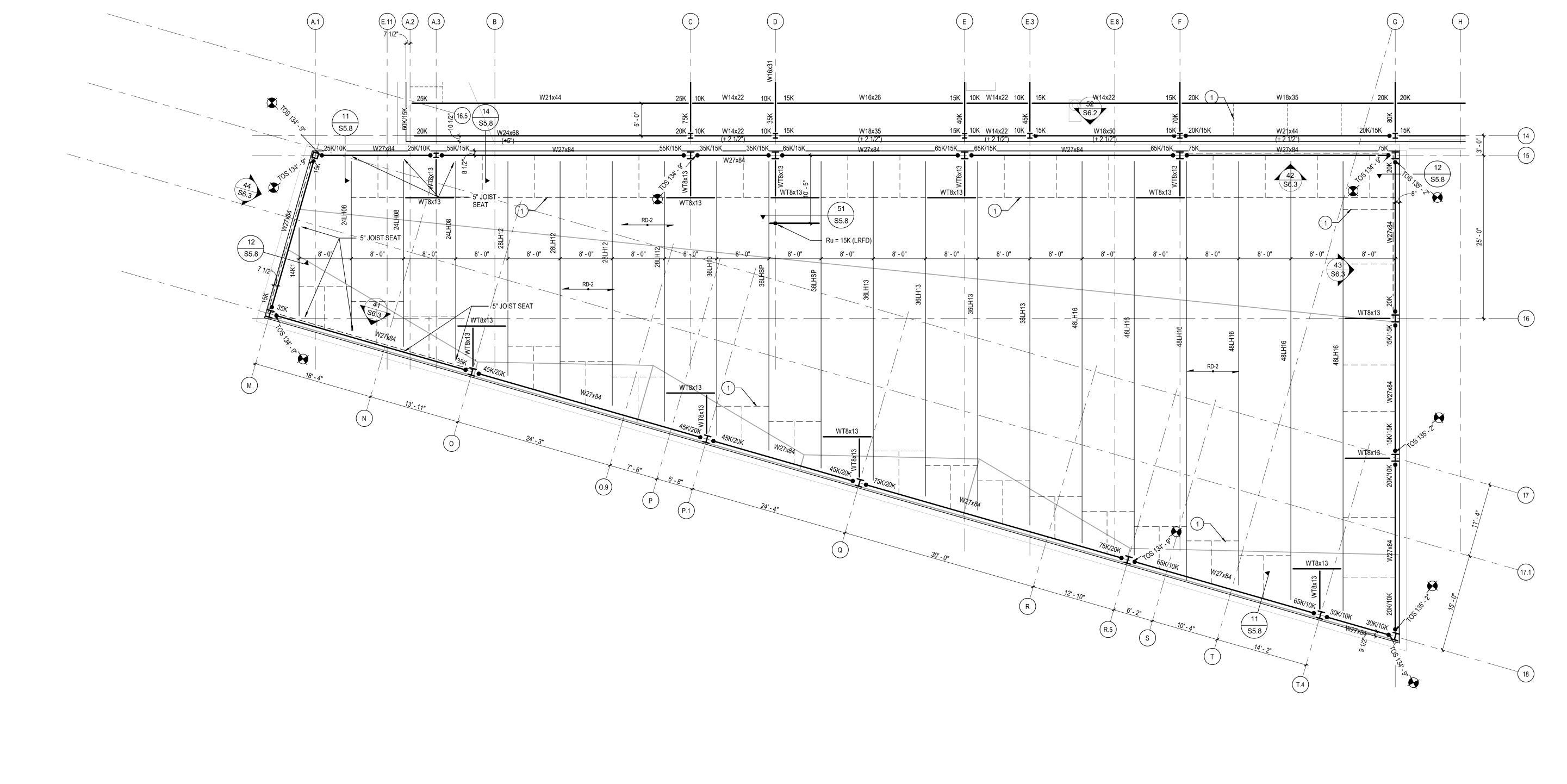
1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 56/S4.2 AND 51/S5.1

3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.

4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED,
CONFIRM WEIGHT AND DETAILS WITH ACTUAL
EQUIPMENT SELECTED. CONNECTIONS TO ROOF
STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

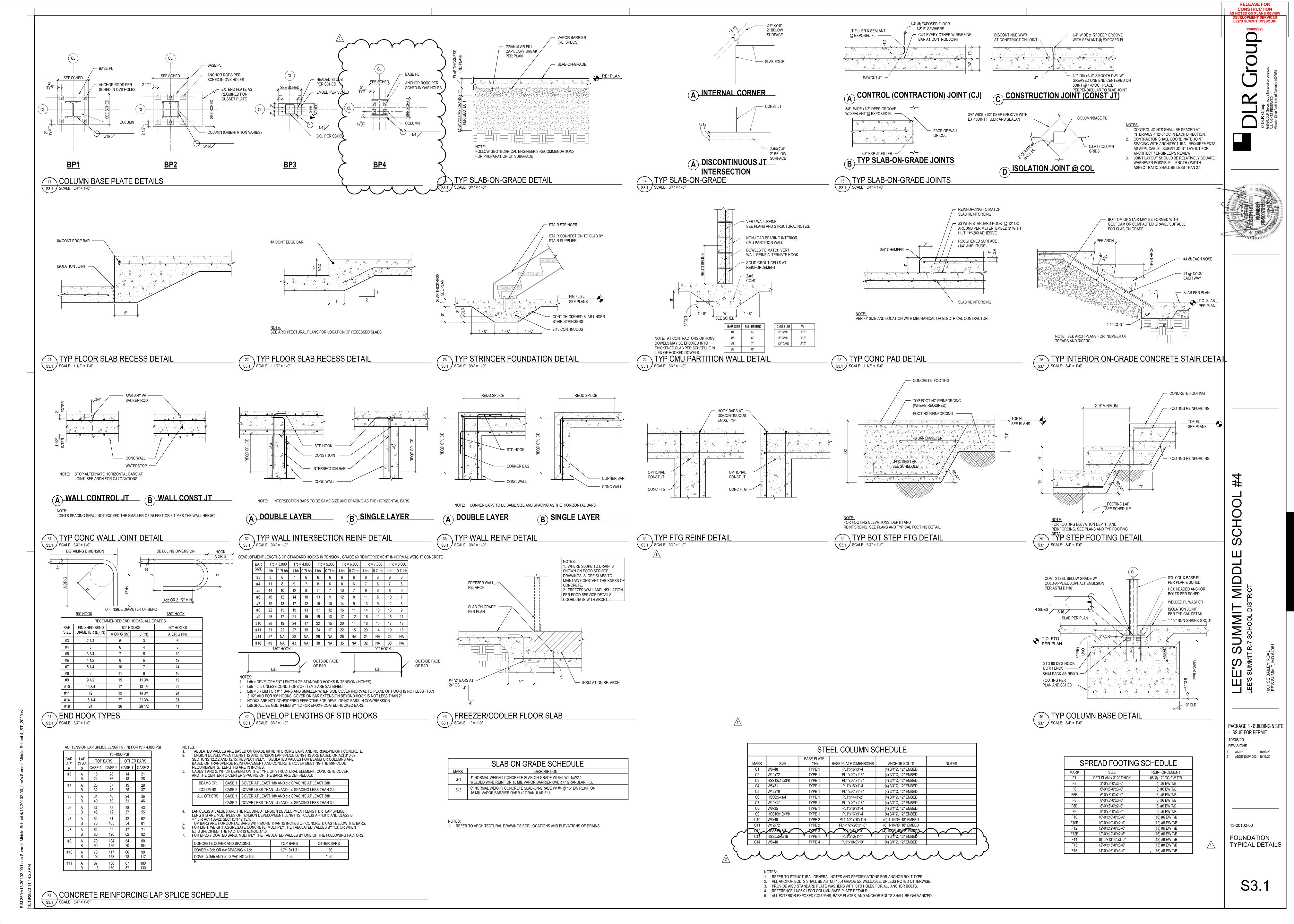
2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/S5.1.

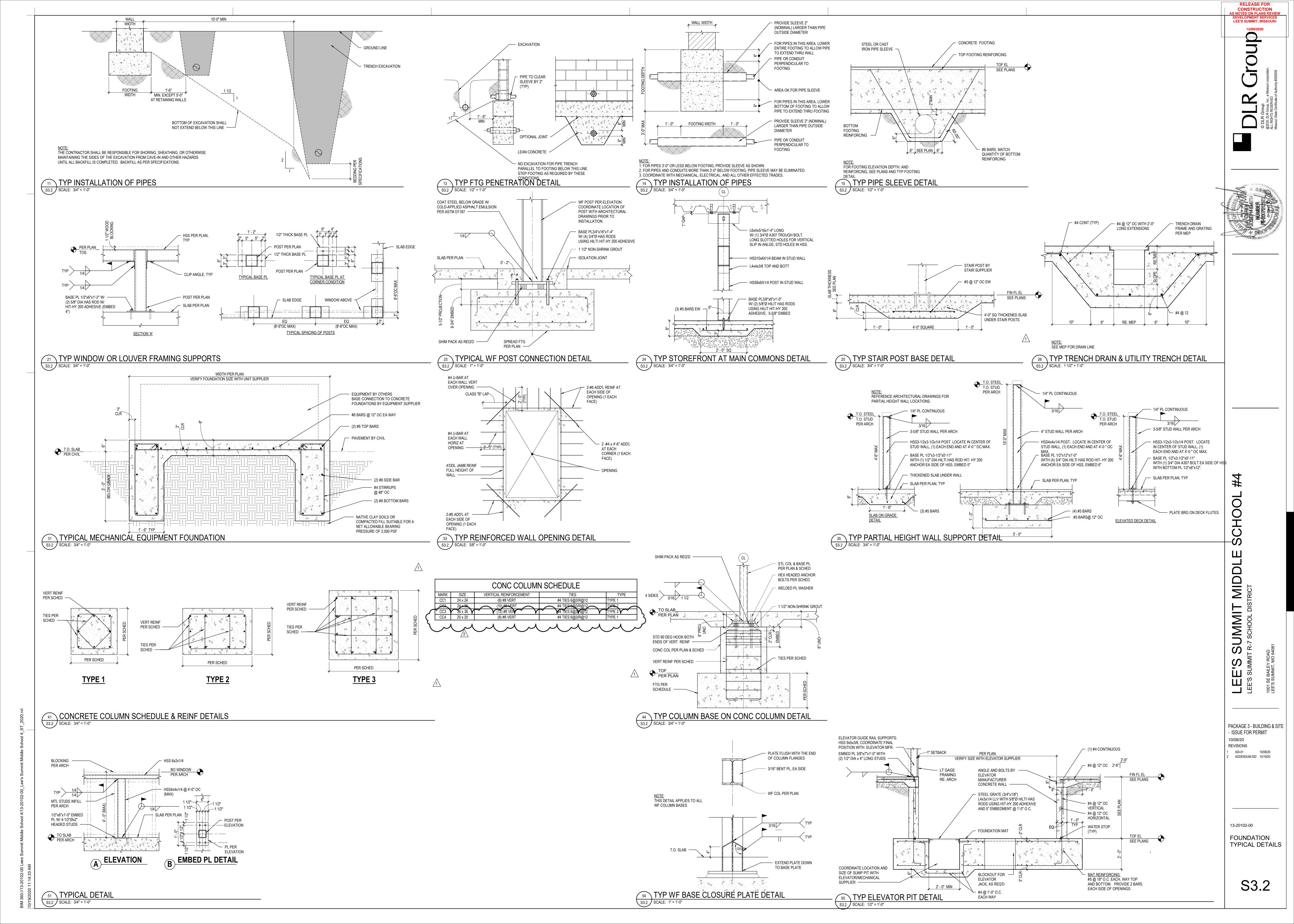
13-20102-00 HIGH ROOF FRAMING PLAN -AREA D S2.3D

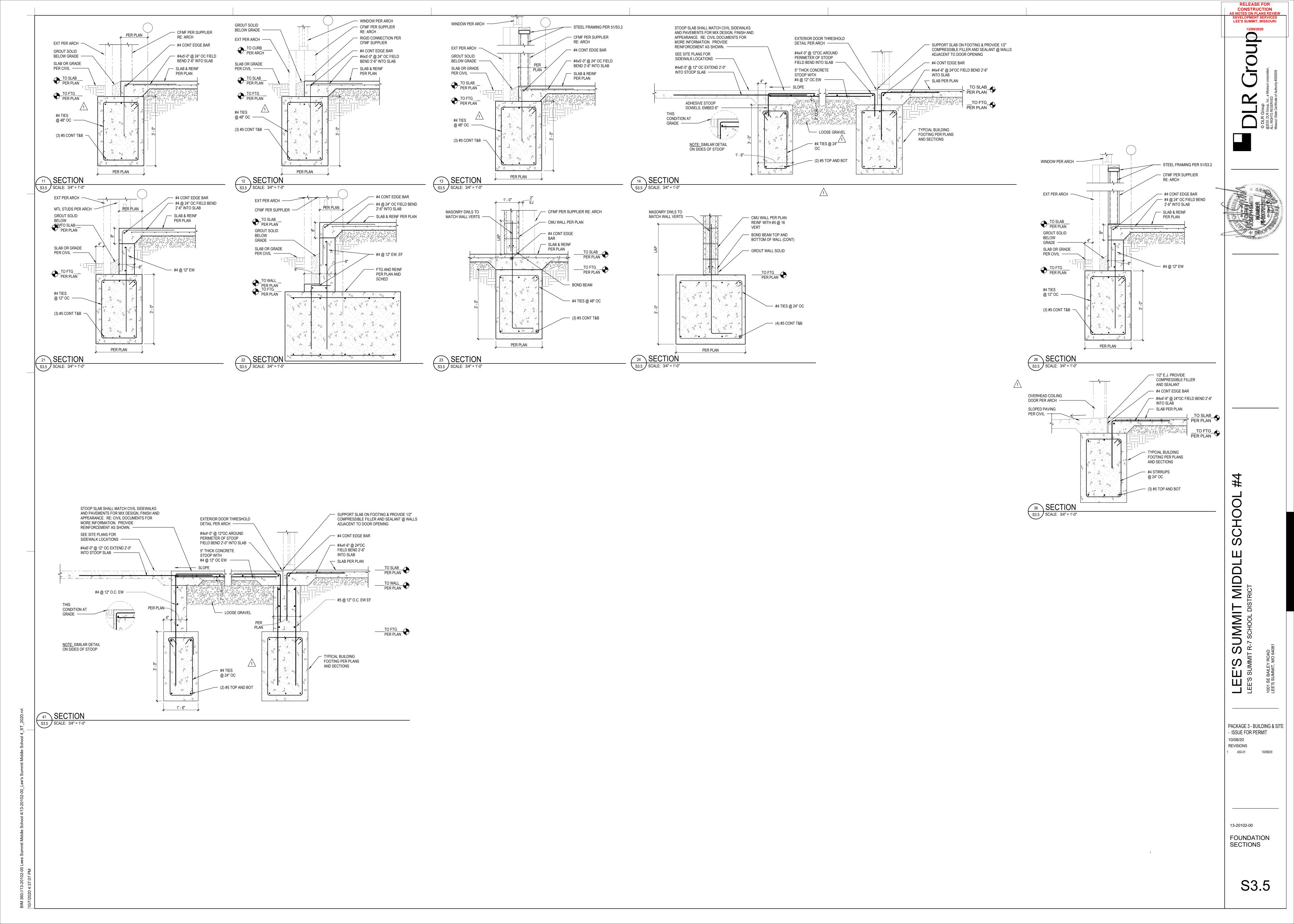


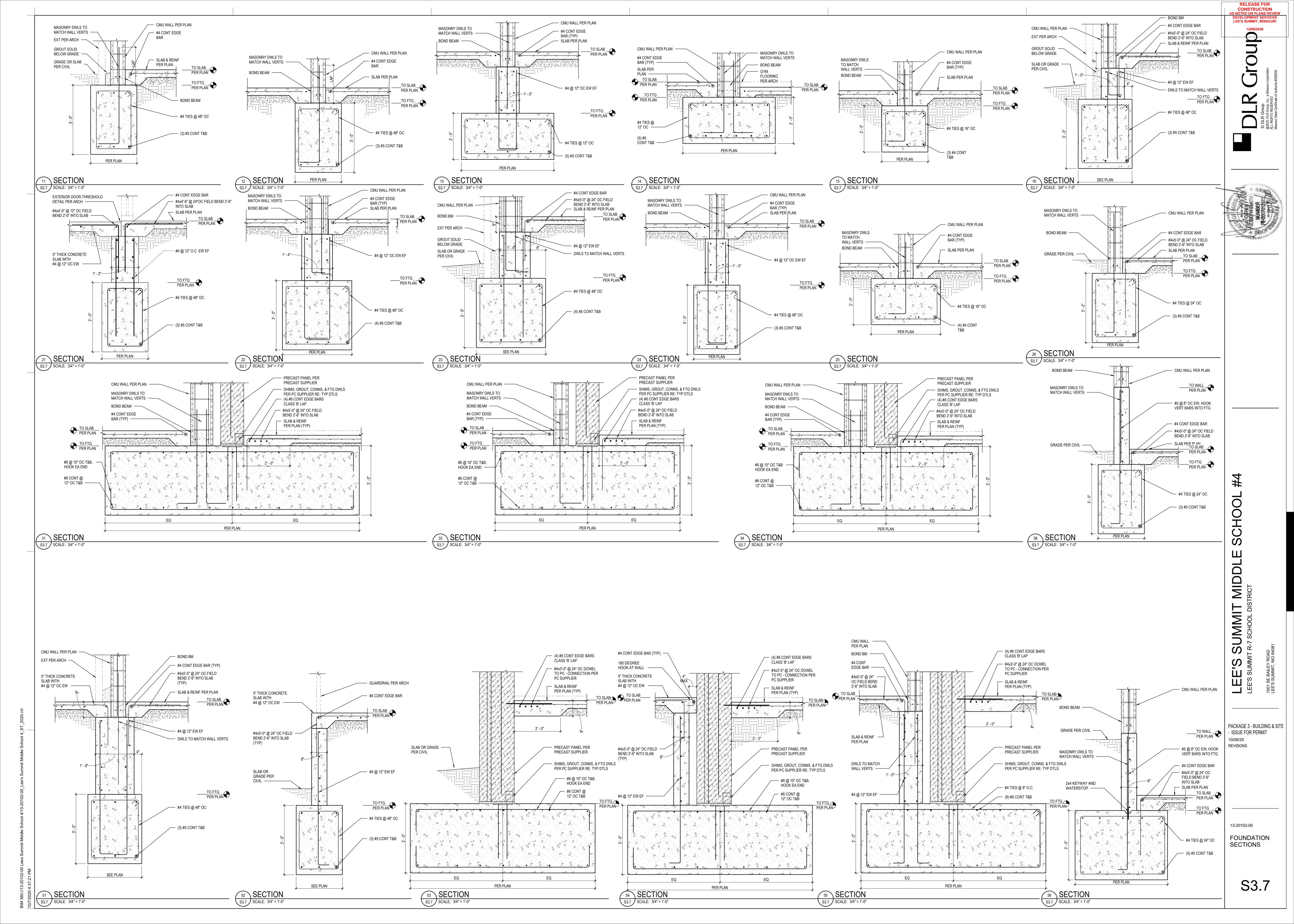
ROOF FRAMING PLAN - AREA D

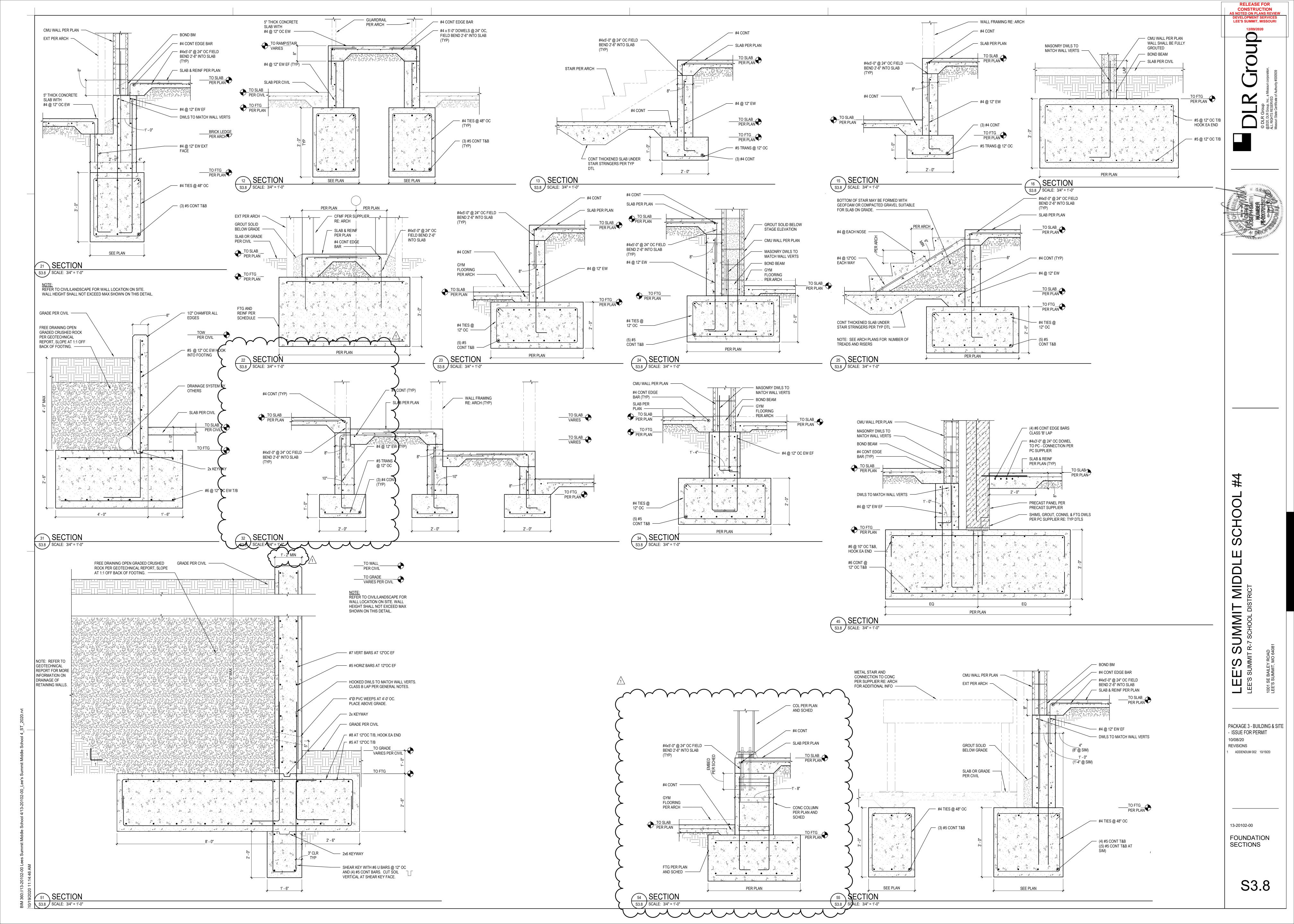
SCALE: 1/8" = 1'-0"

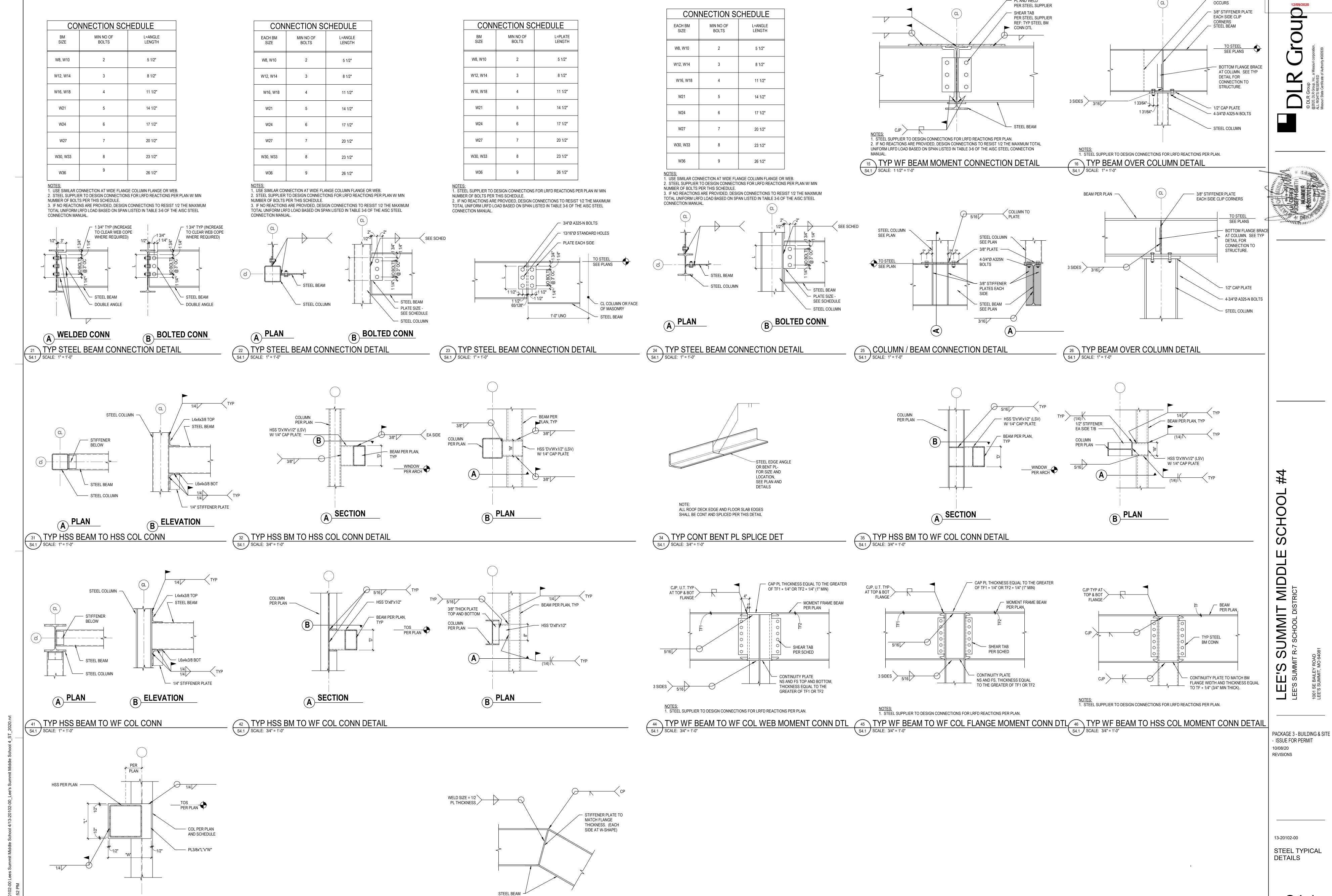












S4.1 SCALE: 1" = 1'-0"

TYP OFFSET HSS TO WF COL CONN DTL

S4.1 SCALE: 1" = 1'-0"

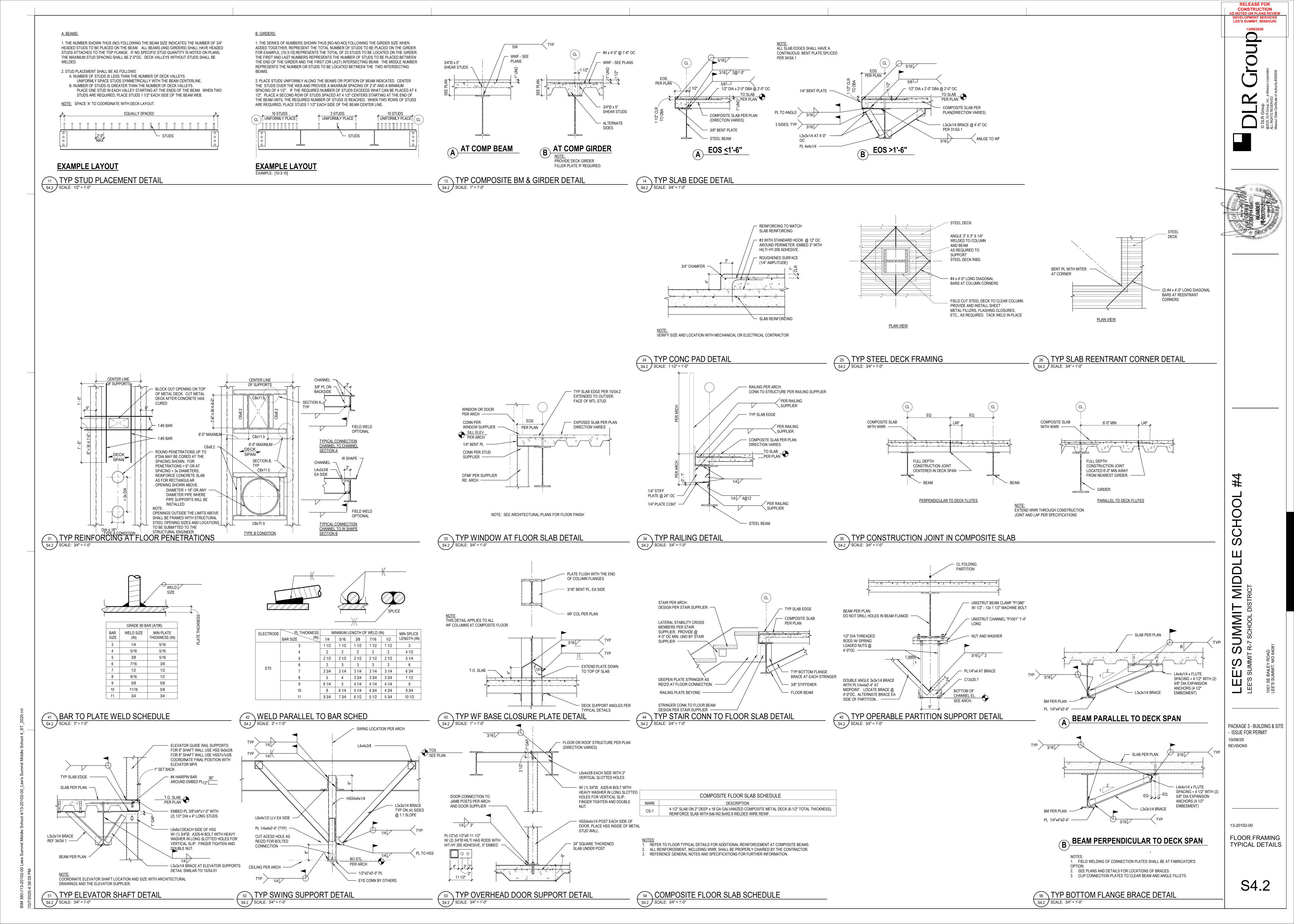
S4.1

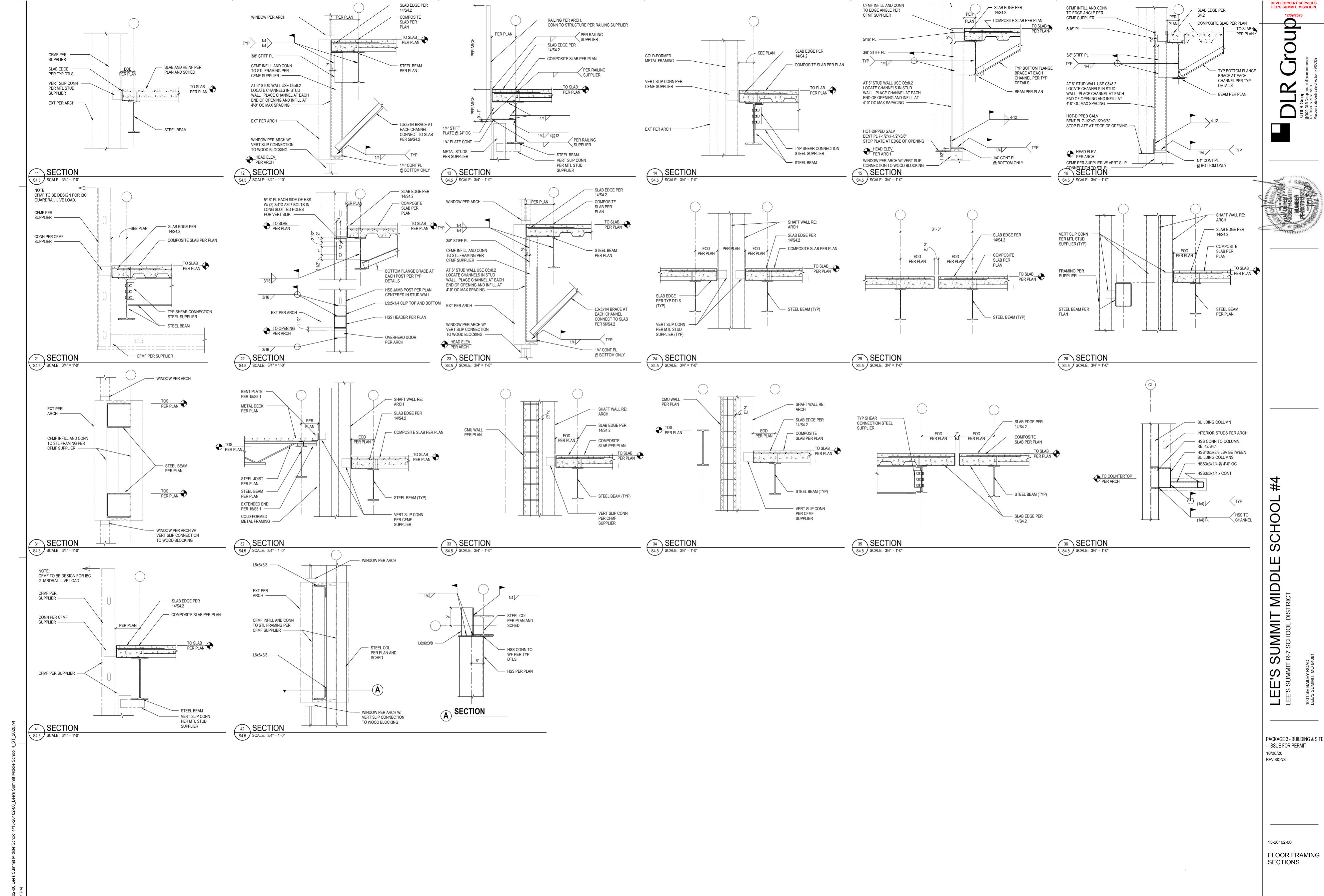
CONSTRUCTION

LEE'S SUMMIT, MISSOURI

- END OF BEAM WHERE

PL AND WELD

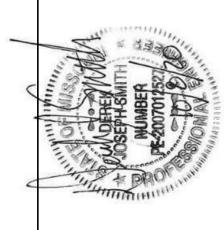


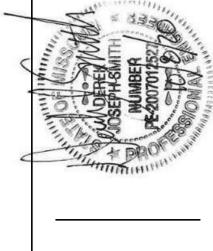


S4.5

CONSTRUCTION





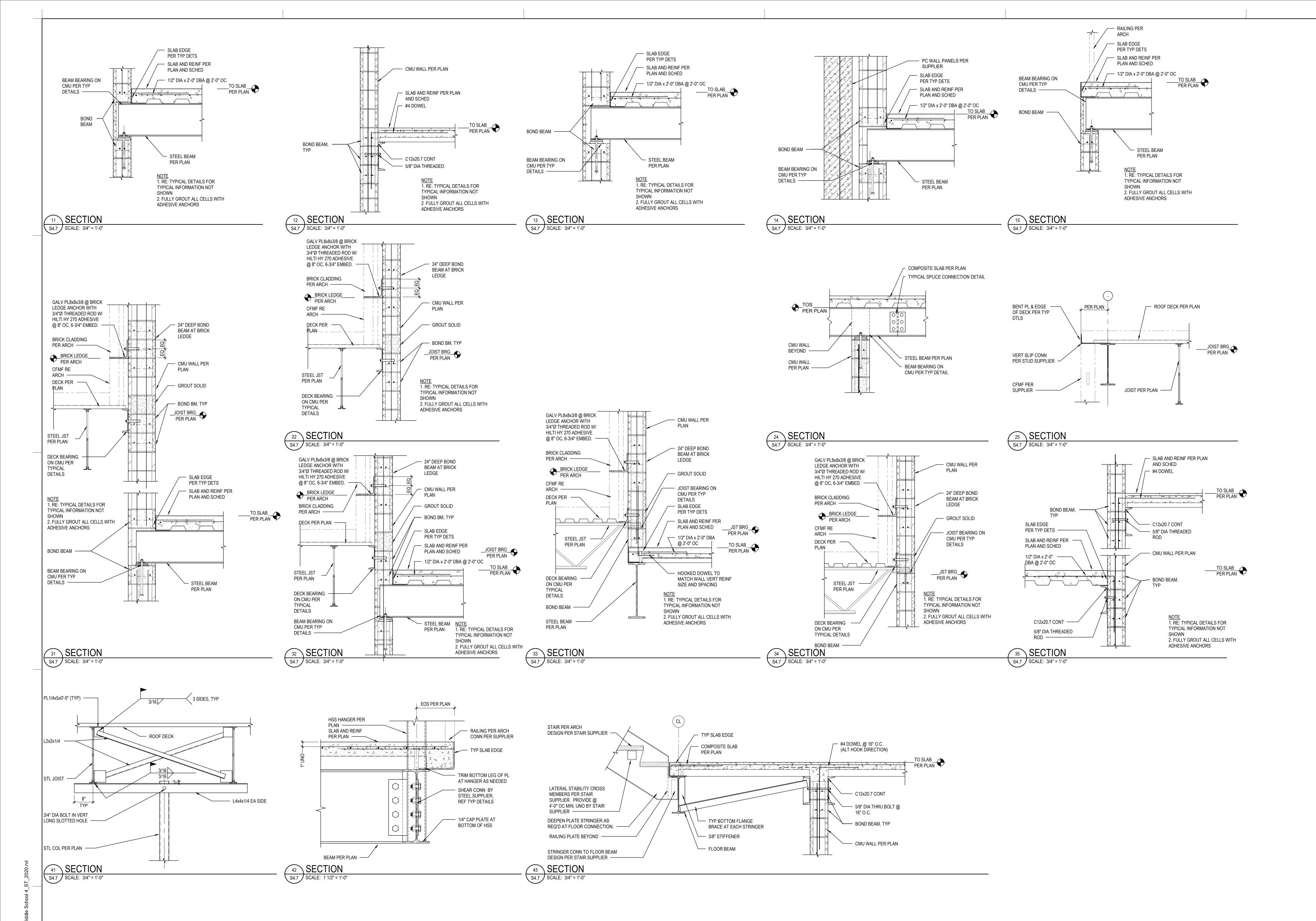


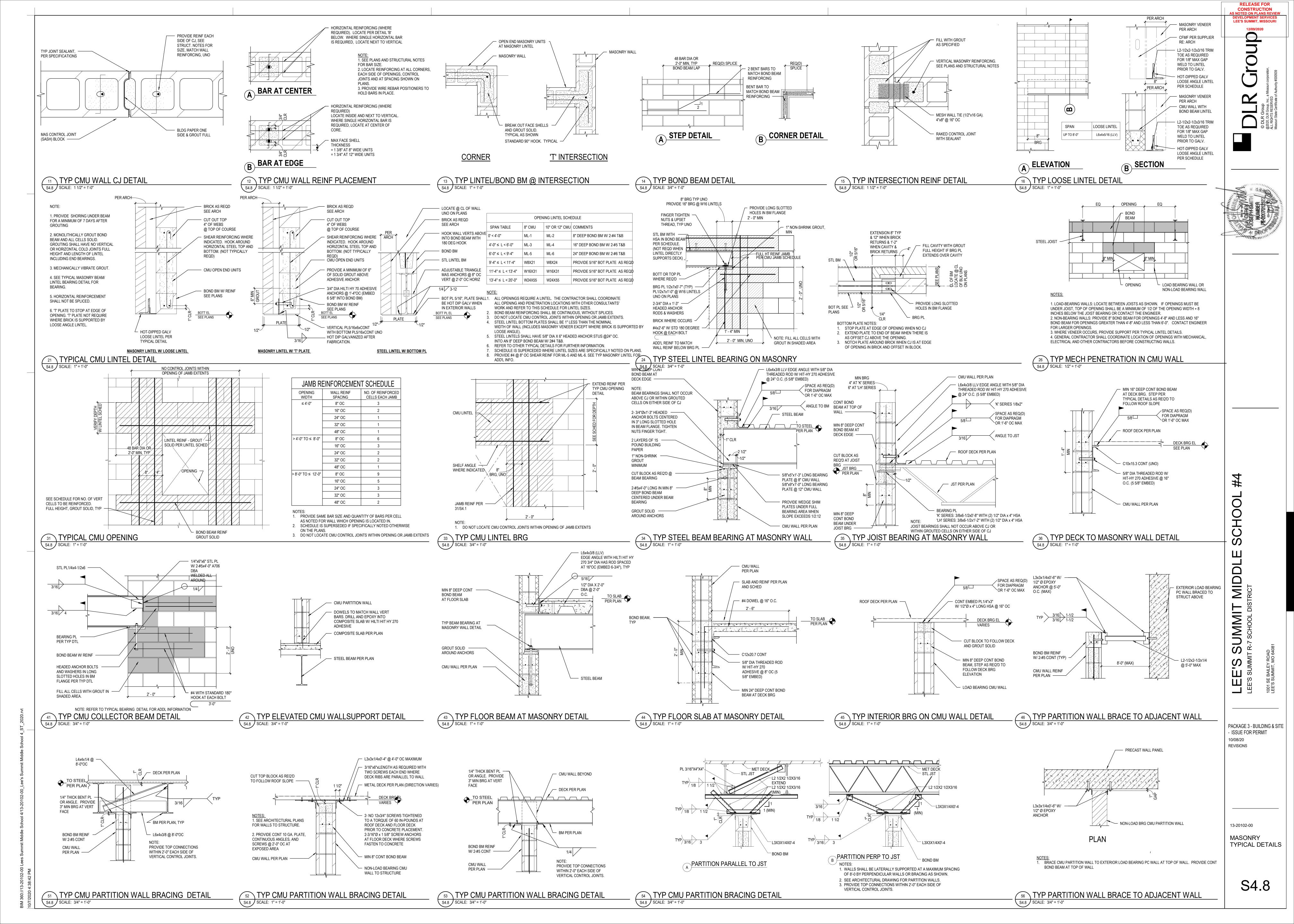


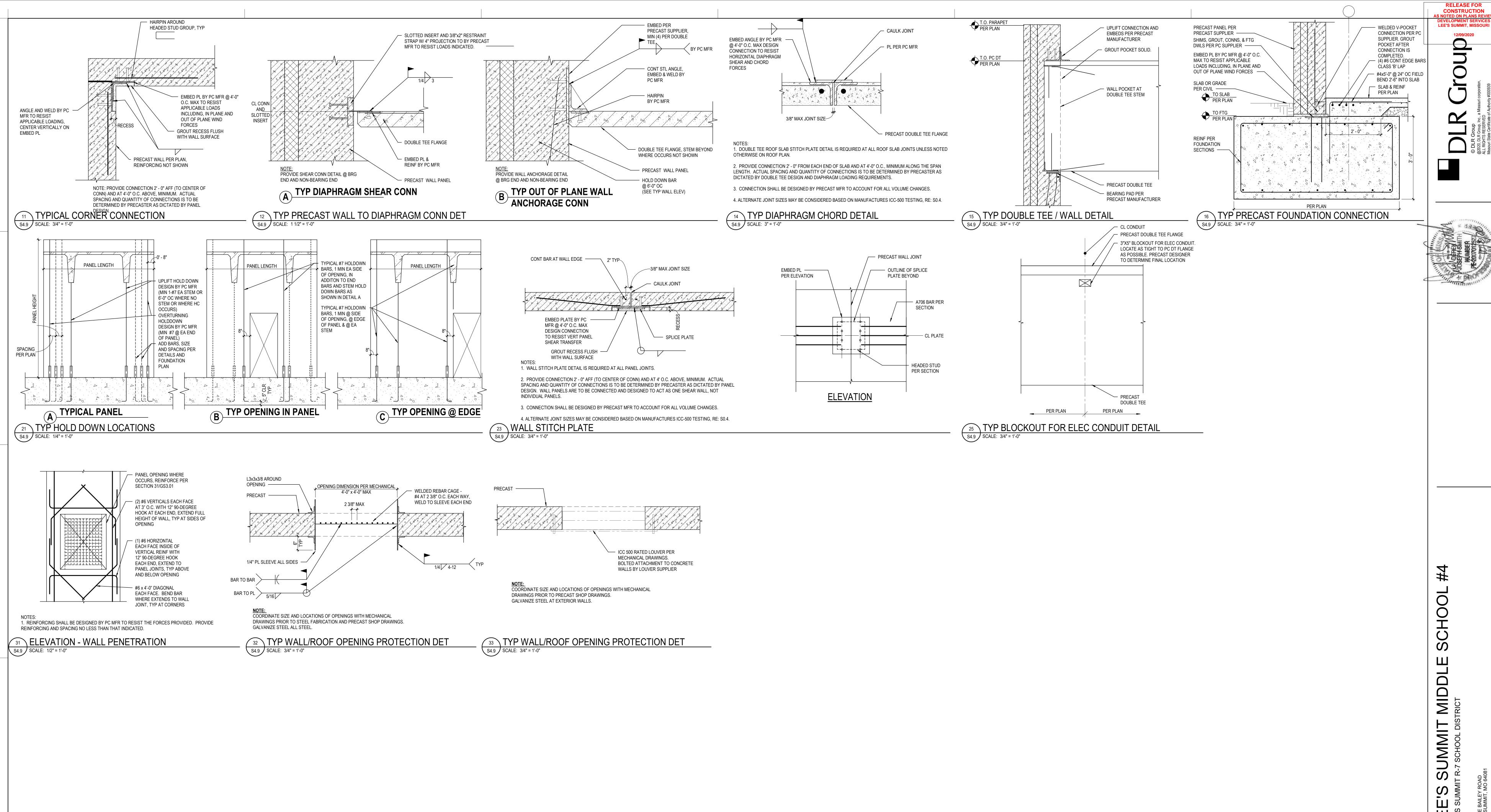
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13-20102-00 FLOOR FRAMING SECTIONS

S4.7



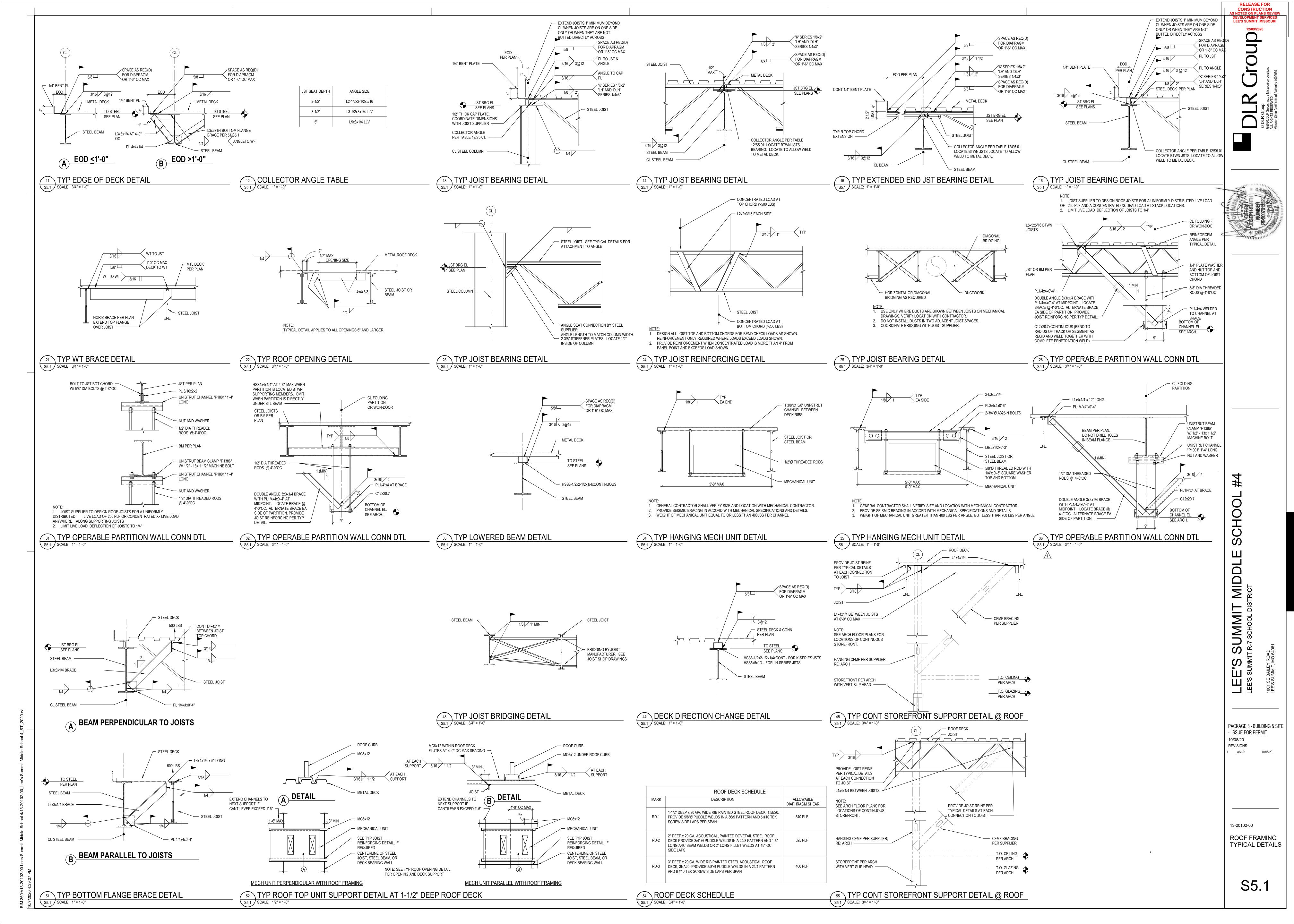


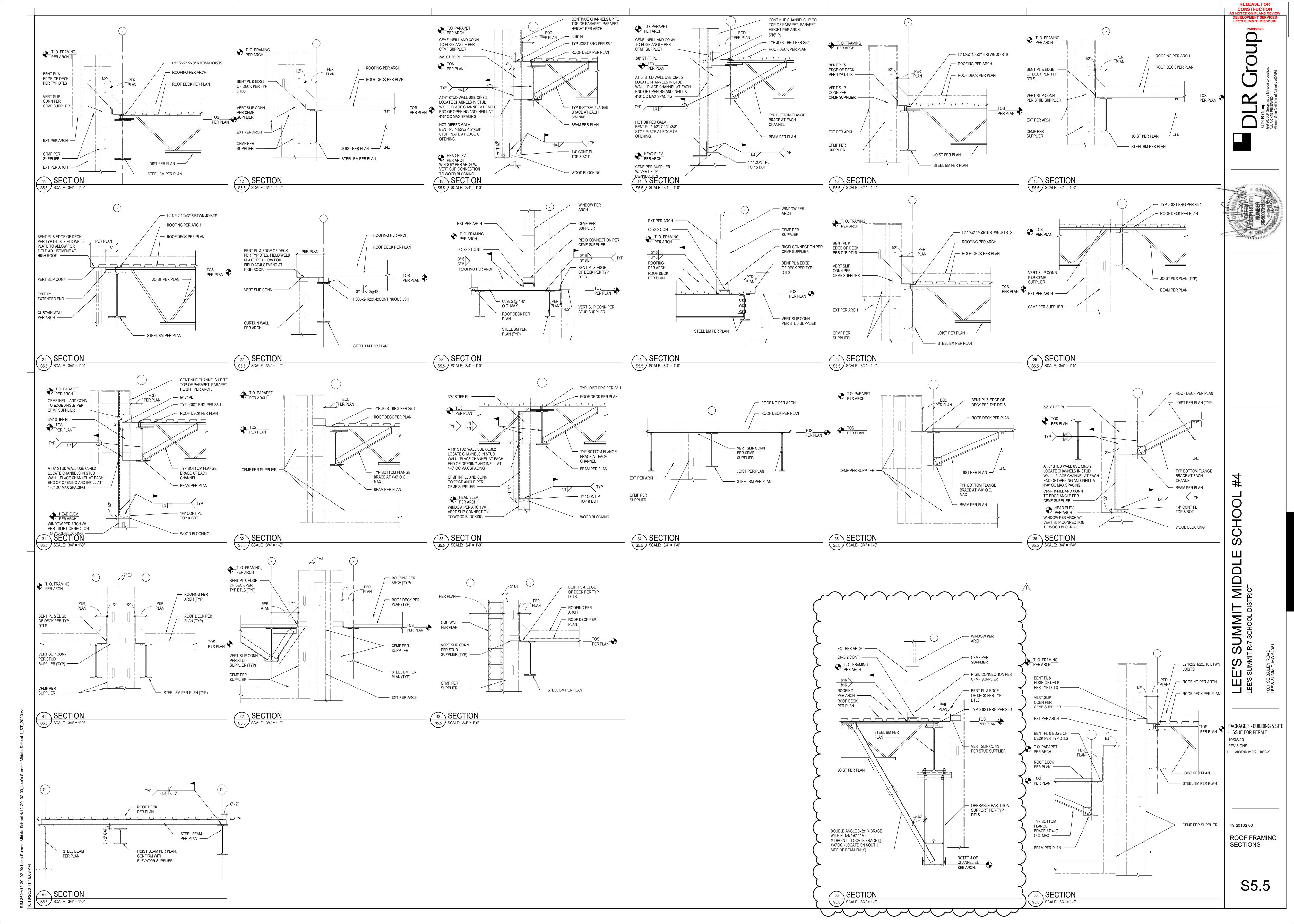


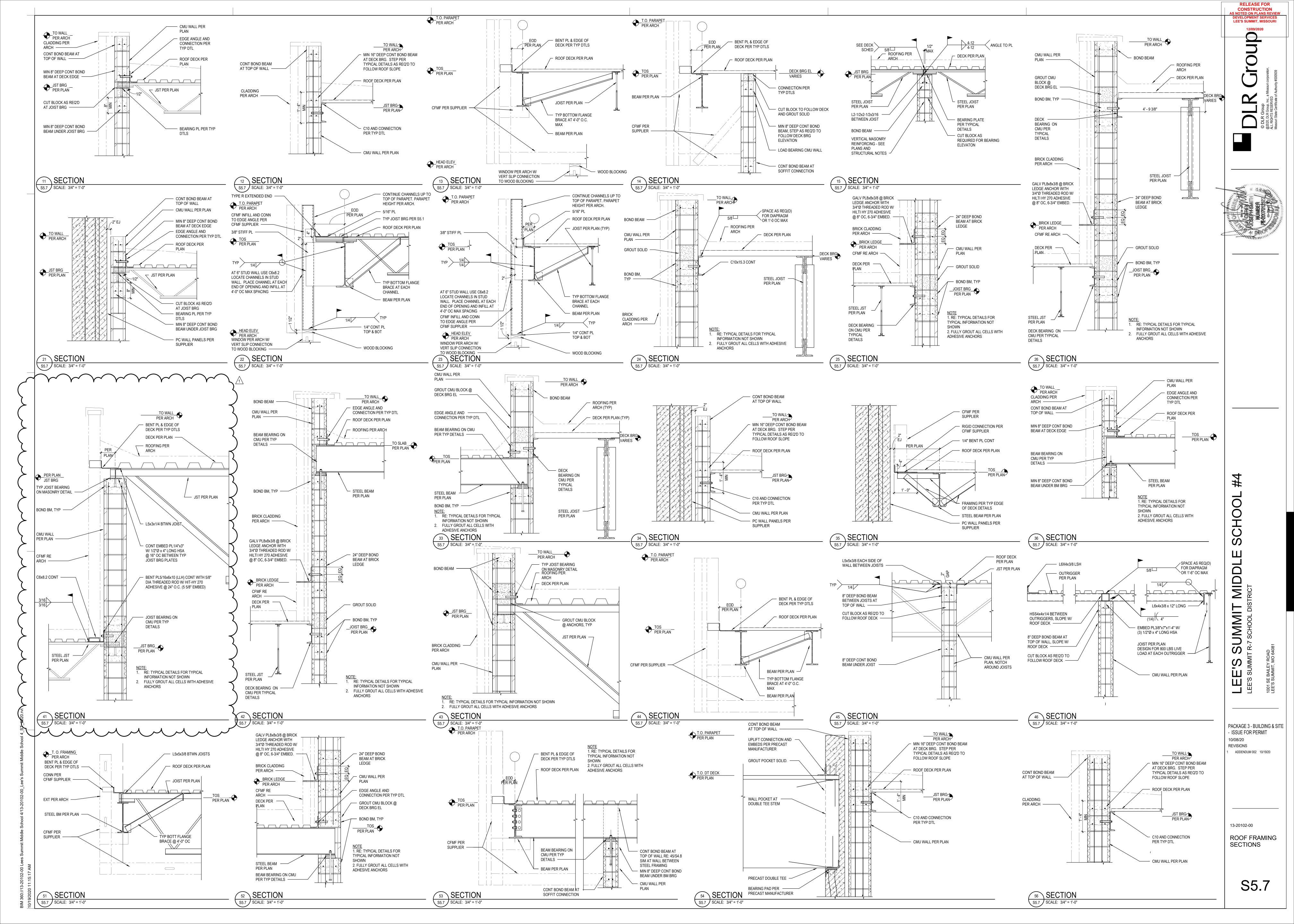
SUMMIT IT R-7 SCHOOL DIST

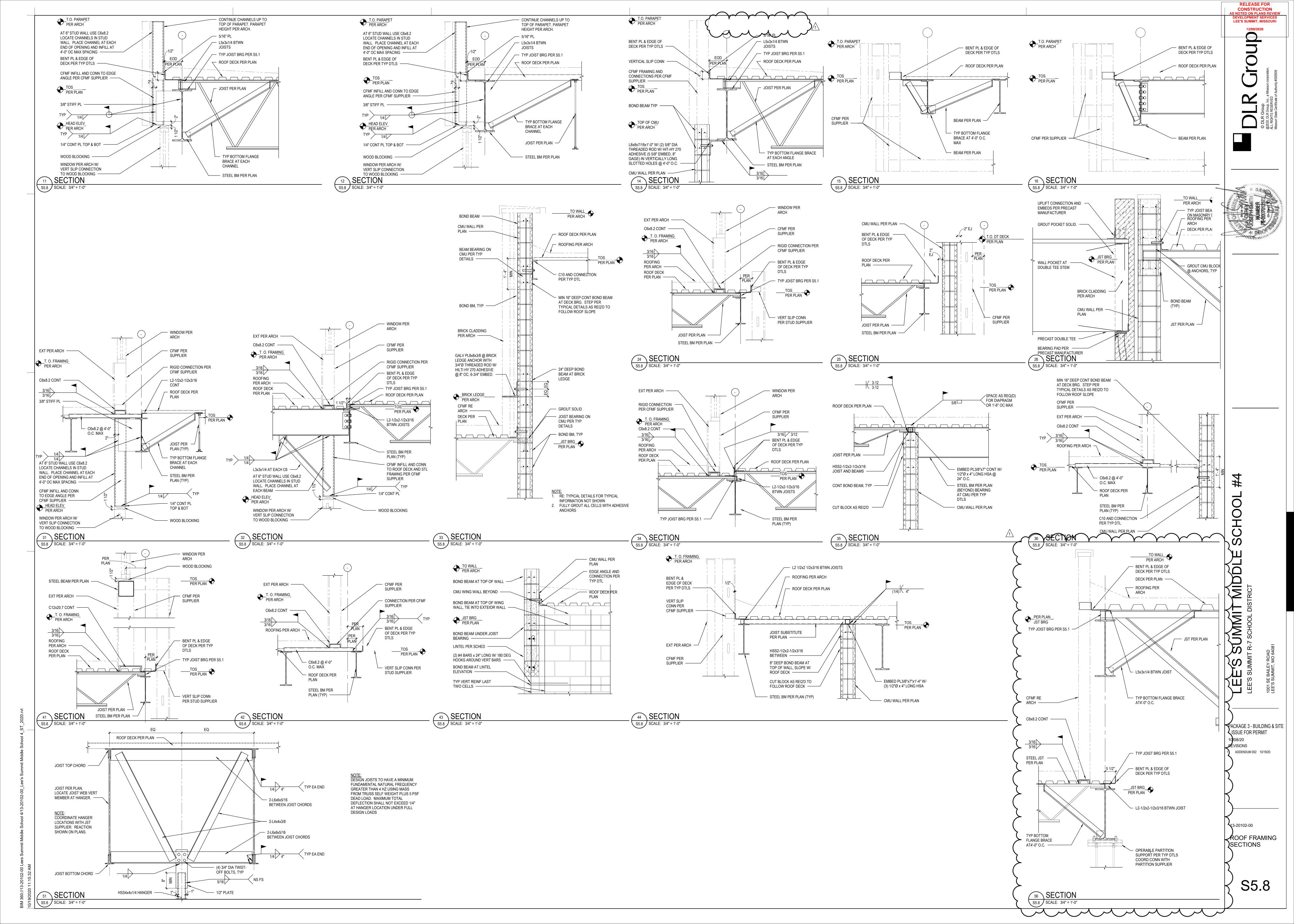
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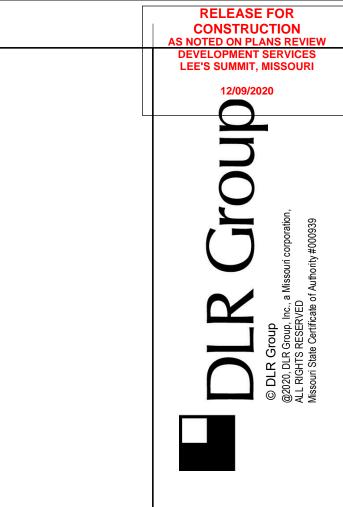
13-20102-00 **PRECAST** TYPICAL DETAILS













MMIT MIDDLE SCHOOL #4

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BRACED FRAME
TYPICAL DETAILS

S6.1

SHEAR CONNECTION PER STEEL SUPPLIER. GRAVITY REACTION IS SHOWN ON PLAN. 3/8" STIFFENER PLATE EACH SIDE — SLOT BRACE FOR PLATE -STEEL COLUMN WORKING POINT — STEEL BEAM. SEE PLAN GUSSET PLATE CL OF BEAM — BRACE. SEE BRACING PL TO COLUMN **ELEVATIONS** CL OF BEAM → WORKING POINT — - —— - - > - —— EXTEND BASE PLATE AS
REQUIRED TO ATTACH TO
GUSSET PLATE. FINAL BASE STEEL COLUMN.SEE PLAN SLOT BRACE — BRACING CONNECTION NOTES:

1. ALL CONNECTIONS SHOWN ARE SCHEMATIC ONLY. FINAL CONNECTION DESIGN CALCULATIONS AND DETAILING SHALL BE PROVIDED BY THE STEEL FABRICATOR'S ENGINEER.

2. REFER TO PLANS FOR ADDITIONAL SHEAR AND AXIAL REACTIONS NOT SHOWN. - GUSSET PLATE SLOT BRACE AT PLATE —— — STEEL BEAM. SEE PLAN _ PLATE SIZE PER STEEL SUPPLIER 2. REFER TO PLANS FOR ADDITIONAL SHEAR AND AXIAL REACTIONS NOT SHOWN.
3. ALL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC LOAD AND RESISTANCE FACTOR PL DETAILS

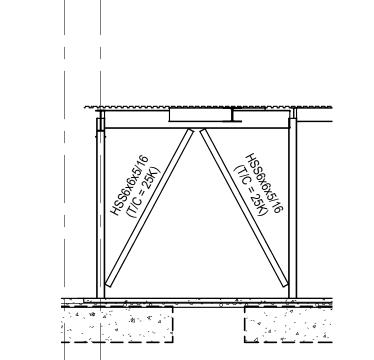
PER COL BASE
PL DETAILS DESIGN (LRFD) TO RESIST FACTORED REACTIONS PROVIDED FOR AN R = 3 SYSTEM.

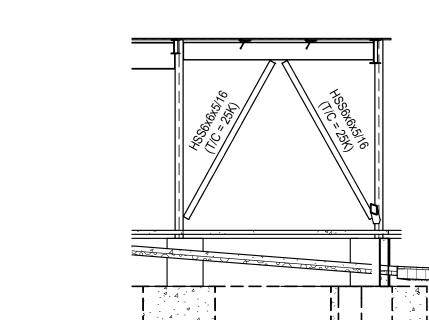
4. THE WORKPOINT SHALL BE DEFINED AS THE INTERSECTION OF ALL MEMBER CENTROIDS FRAMING INTO THE JOINT. STEEL SUPPLIER SHALL DESIGN THE CONNECITONS TO TRANSFER ALL FORCES TO STEEL BRACE. SEE ELEVATIONS THE WORKPOINT. STEEL BRACE. SEE ELEVATION - BOLTED CONNECTION NOTE:
MIRROR CONNECTION WHERE BRACE OCCURS ABOVE — GUSSET PLATE - 1-1/2" NON-SHRINK GROUT ─ WORKING POINT─ ANCHOR BOLTS PER NOTE:
MIRROR CONNECTION WHERE BRACE OCCURS ABOVE 14 BRACE CONNECTION DETAIL
S6.1 SCALE: 1" = 1'-0" BRACE CONNECTION DETAIL NOTES

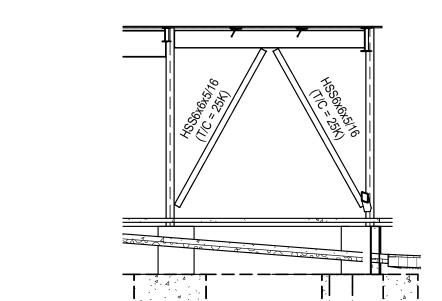
SCALE: 1" = 1'-0" TYP HSS BRACE CONNECTION DETAIL TYP HSS BRACE CONNECTION DETAIL S6.1 SCALE: 1" = 1'-0" S6.1 SCALE: 3/4" = 1'-0"

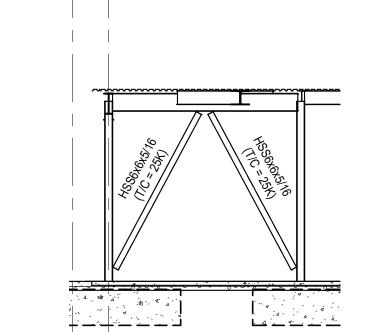
S6.3

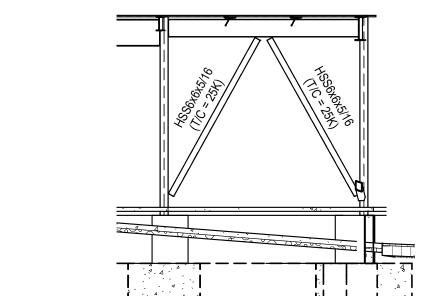


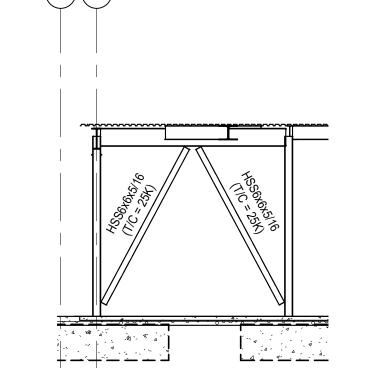


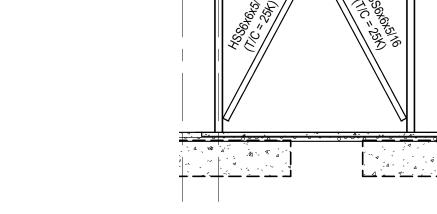


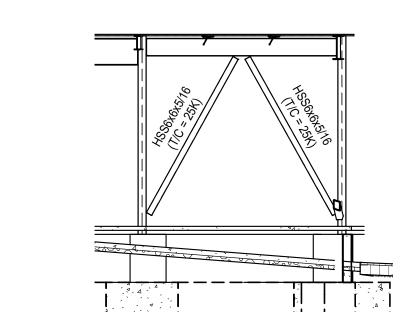




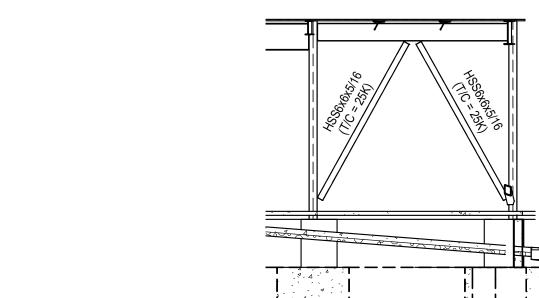


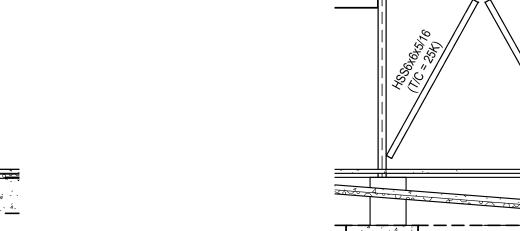


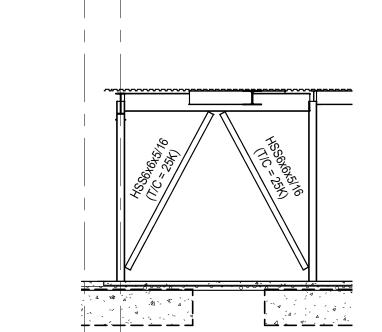


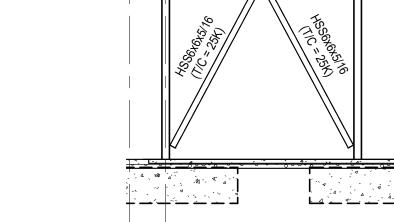


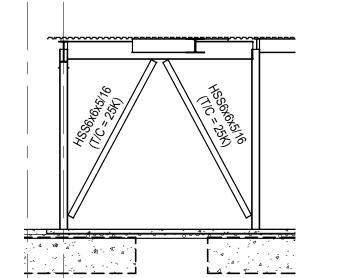


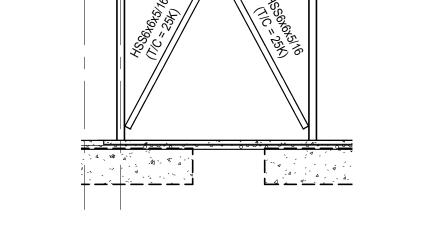


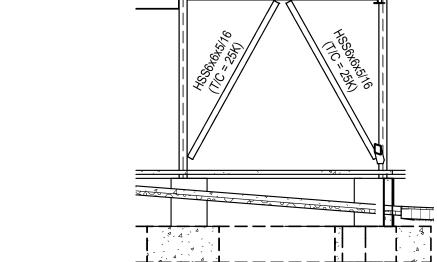




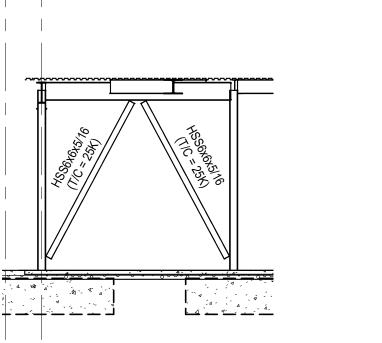


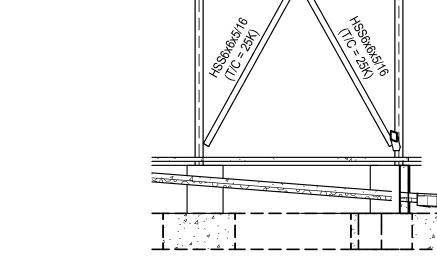


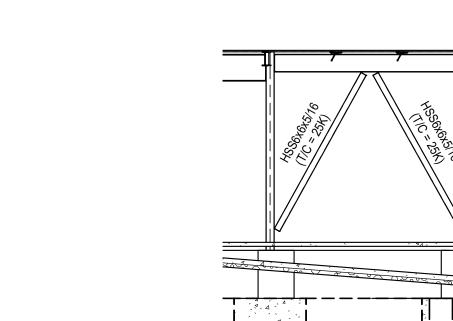


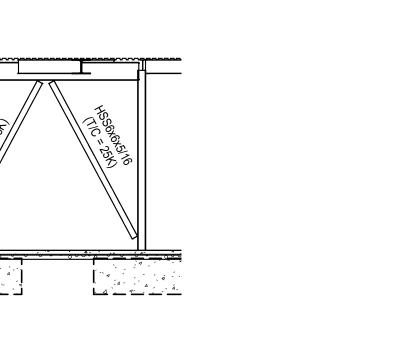


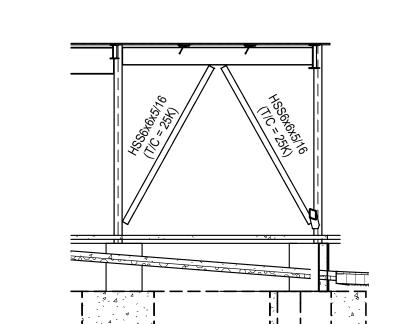


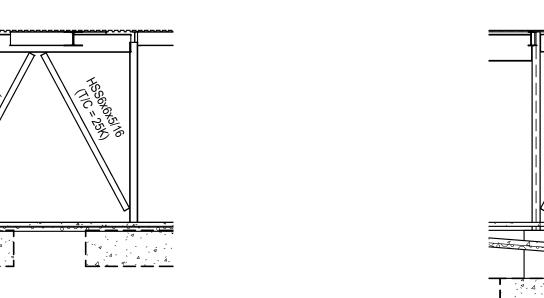


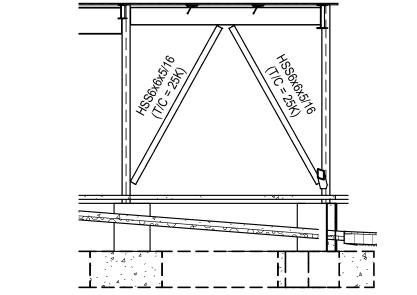






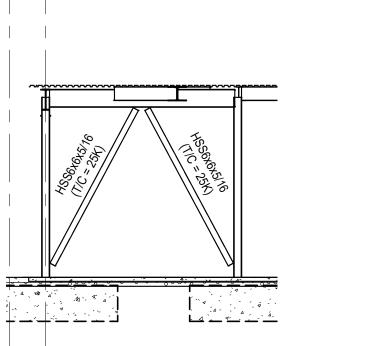


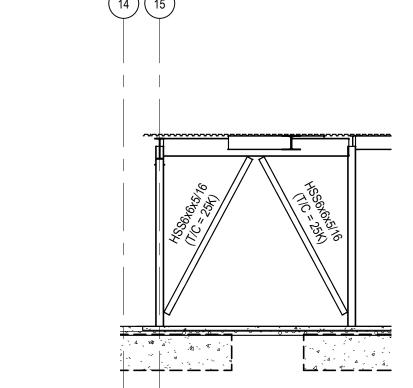


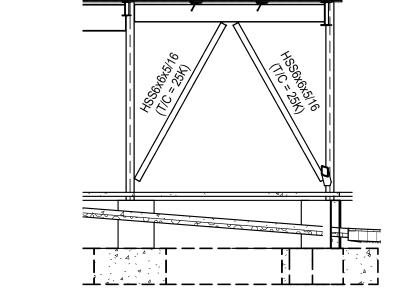


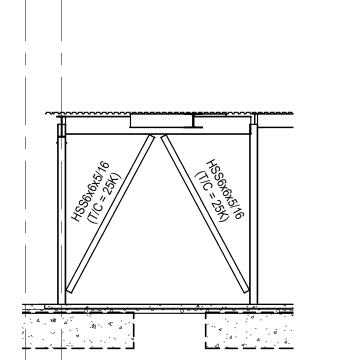
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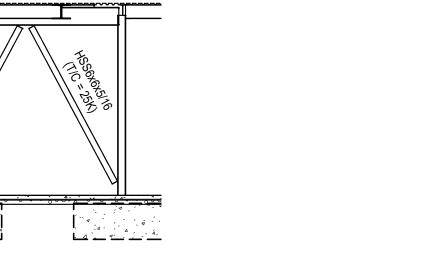
15 **ELEVATION** S6.3 SCALE: 1/8" = 1'-0"

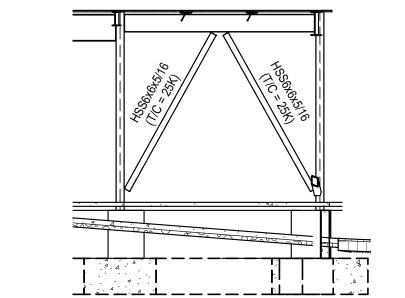


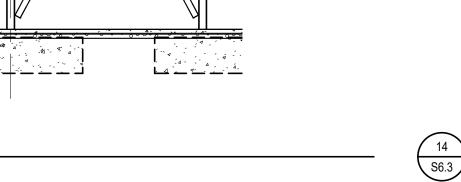




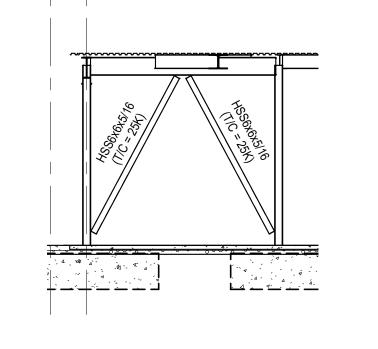


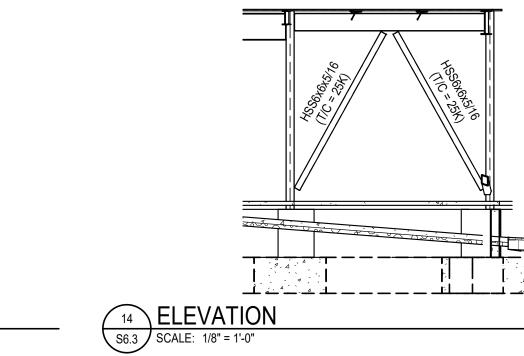


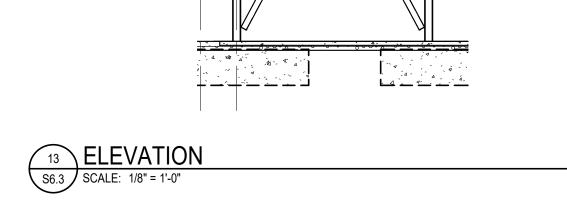


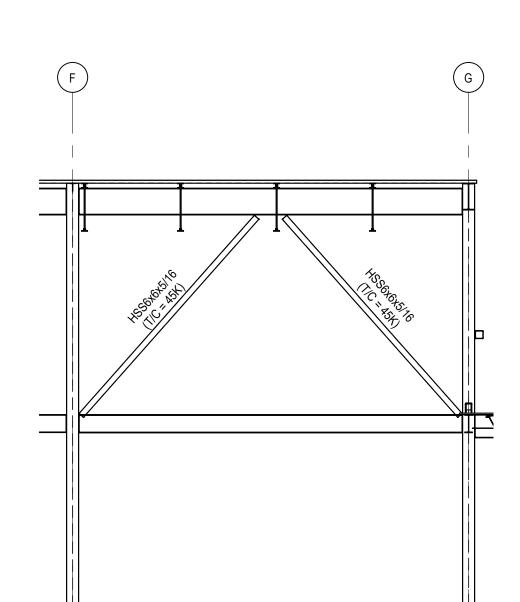


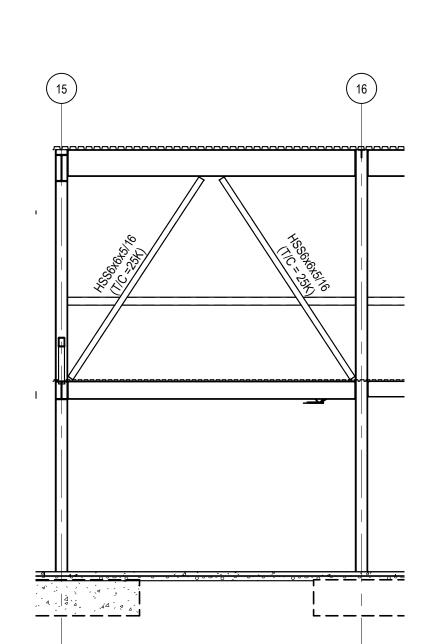
13 ELEVATION S6.3 SCALE: 1/8" = 1'-0"

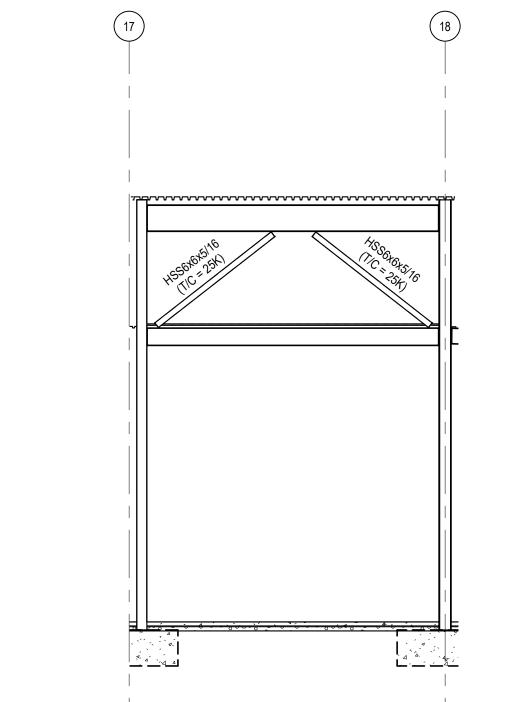












42 **ELEVATION**S6.3 SCALE: 1/8" = 1'-0"

43 **ELEVATION**S6.3 SCALE: 1/8" = 1'-0"

44 ELEVATION S6.3 SCALE: 1/8" = 1'-0"

41 ELEVATION
S6.3 SCALE: 1/8" = 1'-0"

11 **ELEVATION** S6.3 SCALE: 1/8" = 1'-0"