

STRUCTURAL NOTES

© 2023

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED...

COPIES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT SCHAEFER. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION.

GOVERNING CODE

2017 OHIO BUILDING CODE (REFERENCES IBC 2015 & ASCE-7 10)

DESIGN LOADS

Table with 2 columns: Description and Value. Includes WOOD FRAMED ROOF LOAD, RAIN LOAD, ASPHALT/FIBERGLASS SHINGLES, ROOF SHEATHING, TRUSS FRAMING LOAD, CEILING, INSULATION, SPRINKLERS, SOLAR PANELS, DUCTS, LIGHTS, MISC. MECHANICAL, TOTAL LOAD ON TRUSSES.

\*FLAT ROOF SNOW LOAD, P<sub>f</sub> = 14 PSF
GROUND SNOW, P<sub>g</sub> = 20 PSF
SNOW LOAD IMPORTANCE FACTOR, I<sub>s</sub> = 1.0
SNOW EXPOSURE FACTOR, C<sub>e</sub> = 1.0
SNOW LOAD THERMAL FACTOR, C<sub>t</sub> = 1.0
MINIMUM SNOW LOAD, P<sub>m</sub> = 20 PSF

SEE SNOW DRIFT PLAN FOR DRIFT LOADS (P<sub>d</sub>). SPECIFIED DRIFT LOADS (P<sub>d</sub>) SHALL BE COMBINED WITH FLAT ROOF SNOW LOAD (P<sub>f</sub>) OR SLOPED ROOF SNOW LOAD (P<sub>s</sub>) FOR TOTAL SNOW LOADING AT DRIFT CONDITIONS

Table with 2 columns: Description and Value. Includes FLOOR TRUSS FRAMED FLOOR LOAD, FLOOR FINISH ALLOWANCE, 1 1/2" GYPCRETE TOPPING, MISC PARTITION WALLS, FLOOR SHEATHING, TRUSS FRAMING, CEILING, SPRINKLERS, DUCTS, LIGHTS, MISC. MECHANICAL, TOTAL LOAD ON FLOOR FRAMING, PRIVATE ROOMS AND CORRIDORS SERVING THEM, PUBLIC ROOMS AND CORRIDORS SERVING THEM, STAIR LIVE LOAD.

\*\*\* LIVE LOAD REDUCTIONS USED WHERE APPLICABLE

Table with 2 columns: Description and Value. Includes FLOOR LOAD (PODIUM BELOW RESIDENTIAL), CONCRETE PODIUM, SUPERIMPOSED DEAD LOAD ALLOWANCE, LIVE LOAD, PRIVATE ROOMS AND CORRIDORS SERVING THEM, PUBLIC ROOMS AND CORRIDORS SERVING THEM, STAIR LIVE LOAD.

Table with 2 columns: Description and Value. Includes WIND LOAD (PER ASCE 7), BASIC DESIGN WIND SPEED, ALLOWABLE STRESS DESIGN WIND SPEED, RISK CATEGORY, WIND EXPOSURE, INTERNAL PRESSURE COEFFICIENT, DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS, SEISMIC LOAD, SEISMIC RISK CATEGORY, SEISMIC IMPORTANCE FACTOR, MAPPED SPECTRAL RESPONSE ACCELERATION, DESIGN SPECTRAL RESPONSE ACCELERATION, RESIDENTIAL STRUCTURE, PODIUM STRUCTURE, SHEAR WALLS, RESPONSE MODIFICATION COEFFICIENT, SEISMIC RESPONSE COEFFICIENT, DESIGN BASE SHEAR, ANALYSIS PROCEDURE USED.

Table with 2 columns: Description and Value. Includes CONCENTRATED LOADS: 2000 POUNDS OVER 2.5 FEET SQUARE, SPECIAL LOADS, INTERIOR WALLS AND PARTITIONS THAT EXCEED 6 FEET IN HEIGHT, HANDRAILS AND GUARDRAILS, IMPACT, ELEVATORS: SECTION 1607.9.1.

Table with 2 columns: Description and Value. Includes CONSTRUCTION AND SAFETY, CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT, ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.

THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

- 4. PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WITH A WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.
5. ANCHOR RODS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. LATERAL LOAD RESISTING SYSTEM

- 1. THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS:
A. WOOD FRAMING
i. WOOD SHEATHING DIAPHRAGM THROUGHOUT
ii. WOOD SHEATHING SHEAR WALLS AT LOCATIONS INDICATED ON PLAN
B. CONCRETE FRAMING
i. CONCRETE DIAPHRAGM THROUGHOUT
ii. CONCRETE SHEAR WALLS AT LOCATIONS INDICATED ON PLAN

FOUNDATIONS

- 1. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY CONSULTING SERVICES INCORPORATED (CSI), DATED MAY 24, 2022, THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.
A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 4000 PSF BELOW STRIP FOOTINGS AND 4000 PSF BELOW ISOLATED COLUMN FOOTINGS.
2. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
3. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
4. FILL MATERIALS: ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER, INCLUDING THE SUITABILITY OF ALL EXCAVATED ON-SITE SOILS FOR RE-USE. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.
A. CONTROLLED LOW STRENGTH MATERIAL (CLSM): SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL WITH AN UNCONFINED COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI.
B. WELL GRADED GRANULAR MATERIAL: WELL GRADED MIXTURE OF CRUSHED GRAVEL, CRUSHED STONE, AND SAND PER ASTM D294 WITH AT LEAST 95 PERCENT PASSING A 1 1/2" SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE.
C. FREE DRAINING GRANULAR FILL: NARROWLY GRADED MIXTURE OF CRUSHED STONE PER ASTM D448 WITH COARSE AGGREGATE GRADING SIZE #7 WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NO MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
D. IMPERVIOUS FILL: LEAN CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.
5. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS
6. FROST DEPTH IS 30 INCHES BELOW GRADE. BOTTOM OF FOOTINGS, MAT FOUNDATIONS AND GRADE BEAMS THAT ARE NOT PART OF AN INSULATED FROST PROTECTED FOUNDATION SYSTEM AND ARE NOT WITHIN CONDITIONED SPACE MUST BE BELOW SPECIFIED MINIMUM FROST DEPTH AS MEASURED FROM EXTERIOR GRADE. MAINTAIN SPECIFIED T.F.D.M ELEVATIONS AND THICKEN FOOTING OR PLACE ON CLSM AS REQUIRED.
7. FOUNDATIONS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL
8. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 3% OPTIMUM MOISTURE CONTENT.
9. FILL BELOW FLOOR SLABS:
A. SUBGRADE: PROOF ROLL TOP 24" OF SUBGRADE BELOW INTERIOR SLAB TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 3% OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT OF BASE COURSE.
B. BASE COURSE: 4" OF WELL GRADED GRANULAR MATERIAL BELOW FLOOR SLAB COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT.
10. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED PRIOR TO FOOTING CONSTRUCTION.
A. BACKFILL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
B. BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH CLSM OR OTHER FILL MATERIAL APPROVED BY GEOTECHNICAL ENGINEER.
11. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED AFTER FOOTING CONSTRUCTION.
A. BACKFILL TRENCHES EXCAVATED UNDER EXISTING FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
12. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED IMPERVIOUS FILL OR CLSM TO CREATE A DAM TO PREVENT ENTRY OF WATER.
13. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION
14. EXCAVATIONS:
A. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS SHALL BE PERMITTED WITHOUT ANY SPECIAL MEASURES AS LONG AS THE BOTTOM NEAR EDGE OF THE EXCAVATION IS ABOVE A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION.
B. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS WITH THE BOTTOM NEAR EDGE OF THE EXCAVATION BELOW A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION SHALL BE MADE ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER. SUCH EXCAVATIONS MAY REQUIRE SPECIAL TEMPORARY EXCAVATION BRACING OR UNDERPINNING OF EXISTING FOUNDATIONS, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF ITS SELECTED MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES. CONTRACTOR SHALL SUBMIT TEMPORARY EXCAVATION BRACING AND UNDERPINNING DETAILS PRIOR TO EXCAVATION. CONTRACTOR SHALL PERFORM THESE EXCAVATIONS WITH CAUTION SO AS NOT TO UNDERMINE ANY EXISTING STRUCTURE FOUNDATIONS, AND EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
15. UTILITY TRENCHES PARALLEL TO FOOTINGS AND WITH PIPES BELOW THE BOTTOM OF FOOTING ELEVATION MUST BE LOCATED SO THAT THE SLOPE BETWEEN THE PIPE INVERT ELEVATION AND THE NEAREST BOTTOM CORNER OF THE FOOTING IS A MINIMUM OF 2 HORIZONTAL TO 1 VERTICAL.

GROUND IMPROVEMENT WITH AGGREGATE PIERS

- 1. DESIGN AND INSTALL AGGREGATE PIERS IN A TURN-KEY FASHION TO MEET THE FOLLOWING DESIGN CRITERIA.
A. PROVIDE UNIFORM ALLOWABLE BEARING CAPACITIES MEETING OR EXCEEDING SPECIFIED DESIGN BEARING PRESSURES. UNLESS OTHERWISE INDICATED ON PLAN, DESIGN BEARING PRESSURES SHALL BE THE MAXIMUM ALLOWABLE SOIL BEARING PRESSURES INDICATED IN "FOUNDATIONS" GENERAL NOTES.
B. LIMIT LONG-TERM MAXIMUM OVERALL SETTLEMENTS TO 1", AND LONG-TERM MAXIMUM DIFFERENTIAL SETTLEMENTS (AS MEASURED BETWEEN TYPICAL COLUMN BAYS, NO LESS THAN 30'-0") TO 1/2".
C. MINIMUM COEFFICIENT OF FRICTION AS INDICATED IN "FOUNDATIONS" GENERAL NOTES, BUT NO LESS THAN 0.4.
2. SUBMITTALS:
A. SUBMIT GROUND IMPROVEMENT CONSTRUCTION DOCUMENTS, INCLUDING DESIGN CALCULATIONS SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE OF OHIO FOR THIS PROJECT. SUBMITTAL SHALL INCLUDE:
i. ALL DESIGN REQUIREMENTS INCLUDING TEMPORARY AND PERMANENT SOIL STABILITY REQUIREMENTS.
ii. DESIGN PARAMETERS FOR SETTLEMENT CALCULATIONS CONSIDERING STRESS OVERLAP.
iii. NUMBER, DEPTH, DIAMETER, AND LOCATION OF AGGREGATE PIERS.
iv. QUALITY ASSURANCE AND QUALITY CONTROL REQUIREMENTS.
B. INSTALLER SHALL SUBMIT INSTALLATION RECORD, FIELD MODULUS LOAD TEST DATA, AND ANALYSIS OF THE TEST DATA FOR VERIFICATION OF THE DESIGN PARAMETER VALUES. THE REPORT SHALL BE PREPARED UNDER THE DIRECTION OF REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE OF THE PROJECT
3. QUALITY CONTROL:
A. AGGREGATE PIER INSTALLER SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE AND COMPLETED AT LEAST 15 PROJECTS OF SIMILAR SIZE.
B. PERFORM FIELD MODULUS LOAD TEST (ASTM D1143) TO VALIDATE COMPLIANCE WITH REQUIRED BEARING CAPACITIES AND SETTLEMENT CRITERIA. MODULUS TEST SHALL BE PERFORMED TO A MINIMUM OF 150% OF THE DESIGN OR LIMIT STATE TOP OF PIER STRESS OF AN INDIVIDUAL PIER LOCATED WHERE SOIL CONDITIONS ARE THE POOREST AS DOCUMENTED BY THE BORING LOADS CONTAINED IN THE GEOTECHNICAL REPORT. TEST PIERS SHALL NOT BECOME PART OF THE PERMANENT FOUNDATION SYSTEM.
C. CONTINUOUS INSPECTIONS ARE REQUIRED TO BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD, OR THE OWNER'S CONTRACTED SPECIAL INSPECTOR TO MONITOR ADHERENCE TO ALL TESTING AND INSTALLATION PROCEDURES. THE INSTALLER SHALL IMMEDIATELY REPORT ANY UNUSUAL CONDITIONS ENCOUNTERED DURING THE FIELD MODULUS TEST OR PIER INSTALLATION TO THE GROUND IMPROVEMENT REGISTERED DESIGN PROFESSIONAL FOR THE PROJECT, THE OWNER, AND THE ENGINEER.

CAST-IN-PLACE CONCRETE (03-30-00)

- 1. CONCRETE MIXTURES: REFER TO CONCRETE MIXTURE REQUIREMENTS TABLE FOR CONCRETE MIX INFORMATION.
2. CONCRETE MATERIALS:
A. CEMENTITIOUS MATERIALS
i. PORTLAND CEMENT: ASTM C150, TYPE I.
ii. BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE II, PORTLAND LESTONE CEMENT
iii. FLY ASH: ASTM C618, CLASS F OR C. FLY ASH SHALL NOT EXCEED 25% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
iv. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989, GRADE 100 OR 120 COMBINATION SLAG, SILICA FUME, AND FLY ASH SHALL NOT EXCEED 50% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
v. SILICA FUME: ASTM C1240 AMORPHOUS SILICA. SILICA FUME SHALL NOT EXCEED 10% OF TOTAL CEMENTITIOUS
B. AGGREGATES:
i. NORMAL WEIGHT AGGREGATES: ASTM C33, COARSE GRADED.
ii. LIGHTWEIGHT AGGREGATES: ASTM C330.
C. ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
i. WATER REDUCING ADMIXTURE: ASTM C494.
ii. PLASTICIZING ADMIXTURE: ASTM C1017.
iii. AIR ENTRAINING ADMIXTURE: ASTM C260.
iv. CORROSION INHIBITOR: NON-SET-ACCELERATING - CORTEC MCI 2005N5
D. WATER: ASTM C94 AND POTABLE
3. DETAILING REQUIREMENTS
A. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS; 24" O.C. FOR PARALLEL SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR WALLS. USE DUR-O-WAL OR WIREBOND DOVETAIL SLOTS.
B. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
C. CONTRACTION JOINTS IN SLABS ON GROUND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5:1. SEE PLAN FOR MAXIMUM JOINT SPACING.
D. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTRACTION JOINT LOCATION. SEE DRAWINGS FOR TYPICAL DETAILS.
E. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
F. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTRACTION JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.
G. PROVIDE CONTRACTION/CONSTRUCTION JOINTS IN CONCRETE WALLS AT A MAXIMUM SPACING OF TWICE THE HEIGHT OF THE WALL ABOVE THE TOP OF FOOTING. MAXIMUM JOINT SPACING SHALL NOT EXCEED 24 FT. CONTRACTION JOINTS SHALL HAVE A 1-1/2" DEEP BY 3/4" WIDE TAPERED REVEAL EACH SIDE OF THE WALL. AT CONTRACTION JOINTS, EVERY OTHER HORIZONTAL BAR SHALL BE CUT BACK 1-1/2" FROM THE CONTRACTION JOINT. CONSTRUCTION JOINTS SHALL BE FORMED SIMILAR TO CONTRACTION JOINTS. AT CONSTRUCTION JOINTS, ALL HORIZONTAL STEEL SHALL BE DISCONTINUOUS AND A DOWEL BAR OF SIZE AND SPACING TO MATCH THE HORIZONTAL REINFORCING SHALL BE EMBEDDED A MINIMUM OF 40 BAR DIAMETERS EACH SIDE OF THE CONSTRUCTION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL JOINT TREATMENT.
H. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
I. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER GRANULAR BASE.
4. CONCRETE PLACEMENT
A. DO NOT BACKFILL AGAINST BASEMENT FOUNDATION WALLS UNTIL ADJACENT FLOOR STRUCTURE AND CONCRETE/DECKING IS IN PLACE TO BRACE THE TOP OF THE WALL.
B. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL CONCRETE STRENGTH HAS REACHED 0.75 f<sub>c</sub> AND A MINIMUM OF 7 DAYS.
C. ROUGHENED SURFACES, WHERE INDICATED, SHALL EITHER BE:
i. ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4" AND BE CLEAN AND FREE OF LAITANCE.;
ii. FORMED BY EXPANDED METAL LEAVE-IN-PLACE MESH. SUBMIT PRODUCT INFORMATION FOR APPROVAL.

- 5. PERFORMANCE
A. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R-16 "GUIDE TO COLD WEATHER CONCRETING".
B. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-14 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI 305R-10 "GUIDE TO HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND SPEED SHALL BE ENTERED INTO NOMOGRAPH FIGURE 4.2 IN ACI 305R-10 TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
C. TOLERANCES: CONFORM TO ACI 117-10
D. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICIZING OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTENT OF AIR ENTRAINED CONCRETE), AFTER SLUMP ADJUSTMENT, TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.
E. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES.
F. INTERIOR SLAB FINISHING AND CURING
i. FINISH: MACHINE TROWEL FINISH FLOOR SLAB UNLESS NOTED OTHERWISE.
ii. CURING: "CURE AND SEAL" LIQUID MEMBRANE FORMING CURING COMPOUND (ASTM C1315, TYPE 1, CLASS A, VOC COMPLIANT).
G. EXTERIOR SLAB FINISHING AND CURING:
i. FINISH: LIGHT BROOM FINISH
ii. CURING: UV RESISTANT ACRYLIC "CURE AND SEAL" LIQUID MEMBRANE FORMING CURING COMPOUND (ASTM C1315, TYPE 1, CLASS A).
H. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117-10 (F<sub>1</sub> = FLOOR FLATNESS, F<sub>1</sub> = FLOOR LEVELNESS):
i. SPECIFIED OVERALL VALUE F<sub>1</sub> = 25, F<sub>1</sub> = 20
ii. MINIMUM LOCAL VALUE F<sub>1</sub> = 17, F<sub>1</sub> = 15
I. SUSPENDED SLABS SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117-10 (F<sub>1</sub> = FLOOR FLATNESS, F<sub>1</sub> = FLOOR LEVELNESS):
i. SPECIFIED OVERALL VALUE F<sub>1</sub> = 25, F<sub>1</sub> = 20
ii. MINIMUM LOCAL VALUE F<sub>1</sub> = 17, F<sub>1</sub> = 15

- 6. SUBMITTALS:
A. CONSTRUCTION JOINT LAYOUT
B. CONCRETE MIX DESIGNS: CONCRETE MIX DESIGNS INCLUDING PRODUCT DATA FOR ALL CONSTITUENTS AND ADMIXTURES SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-16 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.
C. PRODUCT DATA FOR CURING MATERIALS
D. PRODUCT DATA FOR FIBER REINFORCEMENT
E. FLOOR FLATNESS AND LEVELNESS MEASUREMENT REPORTS INDICATING COMPLIANCE WITH SPECIFIED TOLERANCES. PROVIDE LEVELNESS MEASUREMENT REPORTS FOR ELEVATED SLABS FOR RECORD EVEN WHERE SPECIFIC LEVELNESS CRITERIA IS NOT REQUIRED.
7. QUALITY ASSURANCE
A. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS ABOVE. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-16 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.

CONCRETE REINFORCING (03-20-00)

- 1. MATERIALS
A. DEFORMED BARS: ASTM A615, ASTM A706, OR GRADE 60.
i. ASTM A706 DEFORMED BARS ARE REQUIRED FOR ALL WELDED REINFORCING BARS.
B. WELDED WIRE REINFORCEMENT: ASTM A1064, FLAT SHEETS ONLY.
2. REINFORCING DEVELOPMENT AND LAP SPLICES (UNLESS OTHERWISE NOTED)
A. WELDED WIRE REINFORCEMENT: LAP WELDED WIRE REINFORCEMENT MINIMUM 1 FULL SPACE PLUS 2".
B. SEE REINFORCING BAR DEVELOPMENT TABLES FOR REQUIRED DEVELOPMENT AND LAP SPLICE LENGTHS.
3. DETAILING REQUIREMENTS
A. AT SLAB AND WALL OPENING CORNERS AND REENRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
B. SEE PLAN FOR INTERIOR SLAB ON GROUND REINFORCEMENT. LOCATE REINFORCEMENT 2' CLEAR BELOW TOP OF SLAB.
C. REINFORCE ALL SLABS SUPPORTED ON METAL DECK WITH [6 X 6 - W1.4 X W1.4 (21#)] WELDED WIRE REINFORCEMENT. LOCATE WELDED WIRE REINFORCEMENT AT CENTER OF DEPTH OF CONCRETE THICKNESS ABOVE METAL DECK UNLESS NOTED OTHERWISE.
4. PERFORMANCE
A. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING AND SUPPORTING REINFORCEMENT.
B. REINFORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS. WHERE NOT INDICATED, PROVIDE MINIMUM CLEAR COVER PER ACI-318.
C. REINFORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS.
5. SUBMITTALS
A. SHOP DRAWINGS FOR REINFORCING STEEL (COMPLY WITH ACI SP-066):

STRUCTURAL ENGINEERS
800.542.3302
schaef-er-inc.com
schaefer

STAMP:
PROGRESS REVIEW ONLY
NOT FOR CONSTRUCTION

PARAMOUNT WORKS
2505 KEMPER LN
CINCINNAT OH, 45206

ENGINEER: Designer
MODELER: Author
CHECKED BY: Checker

Table with 3 columns: NO, DATE, DESCRIPTION. Includes ISSUE/REVISION/SUBMISSION.

PROJECT NUMBER: 2312.95

SHEET NAME:

GENERAL NOTES

DATE: Issue Date

SHEET:

S001

COPYRIGHT © 2023
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

C:\Users\stamack\OneDrive\Documents\PARAMOUNT\COMMONS\_STRUCTURE (1)23.dwg, 1/23/2023, 12:28:08 PM, 2312.95





- i. GLUE SHEATHING TO FLOOR FRAMING PRIOR TO NAILING. ADHESIVE SHALL COMPLY WITH APA AFG-01 OR ASTM D3498 AND BE APPROVED FOR USE WITH THE SPECIFIED SHEATHING PANEL. APPLY ADHESIVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND COMPLETE NAILING BEFORE ADHESIVES SETS.
  - ii. SEAL EDGE OF ALL CUT FLOOR SHEATHING WITH PAINT PRIMER.
  - iii. SEAL ALL FLOOR SHEATHING WITH A WATER SEALER IMMEDIATELY AFTER FLOOR SHEATHING HAS BEEN INSTALLED AND PRIOR TO EXPOSURE OF RAIN.
- D. DECK BOARDS: BOARDS SHALL SPAN OVER A MINIMUM OF THREE SUPPORTS. BUTT ENDS OF ADJACENT PIECES SHALL BE STAGGERED. FASTEN TO EACH SUPPORTING FRAMING MEMBER WITH (2) #8 x 2.5" WOOD SCREWS.

**POST INSTALLED ANCHORS**

1. INSTALLATION: INSTALL ANCHORS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
2. CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY: PRIOR TO DRILLING, VERIFY LOCATIONS OF EXISTING REINFORCING BARS USING A REBAR DETECTOR. NOTIFY ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING BARS. DO NOT DRILL THROUGH REINFORCING BARS.
3. TESTING AND INSPECTION: REFER TO EVALUATION REPORTS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.
4. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH SPECIFIED ACCEPTANCE CRITERIA MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
5. ADHESIVE ANCHORS:
  - A. ANCHOR RODS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE. SIZE AND EMBEDMENT AS INDICATED ON DRAWINGS.
  - B. ADHESIVE IN CONCRETE: SIMPSON STRONG-TIE "SET-3G" EPOXY (EVALUATION REPORT: ICC ESR-4057. SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC308 AND ACI 355.4 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
  - C. ADHESIVE IN GROUT FILLED CONCRETE MASONRY: SIMPSON STRONG-TIE "AT-XP" (EVALUATION REPORT: IAPMO UES ER-281). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC58 FOR USE IN GROUT FILLED CONCRETE MASONRY WALLS MAY BE CONSIDERED.
  - D. VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED ON THE DATE OF INSTALLATION.
6. EXPANSION ANCHORS:
  - A. ANCHORAGE TO CONCRETE: SIMPSON STRONG-TIE "STRONG-BOLT 2" CARBON STEEL, ZINC PLATED (EVALUATION REPORT: ICC-ES ESR-3037). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC193 AND ACI 355.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
  - B. ANCHORAGE TO GROUT FILLED CONCRETE MASONRY: SIMPSON STRONG-TIE "STRONG-BOLT 2" (EVALUATION REPORT: IAPMO UES ER-240). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC01 FOR EXPANSION ANCHORS IN MASONRY ELEMENTS MAY BE CONSIDERED.
7. SCREW ANCHORS
  - A. ANCHORAGE TO CONCRETE: SIMPSON STRONG-TIE "TITEN HD" (EVALUATION REPORT: ICC-ES ESR-2713). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC193 AND ACI 355.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
  - B. ANCHORAGE TO GROUT FILLED CONCRETE MASONRY: SIMPSON STRONG-TIE "TITEN HD" (EVALUATION REPORT: ICC-ES ESR-1056). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC106 (INCLUDING SEISMIC TESTS) FOR SCREW ANCHORS IN MASONRY ELEMENTS MAY BE CONSIDERED.

**POWER-ACTUATED FASTENERS (PAF)**

1. INSTALLATION: INSTALL FASTENERS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTRUCTIONS (MPII)
2. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH ICC-ES ACCEPTANCE CRITERIA AC 70, INCLUDING ANNEX A FOR SEISMIC LOADING MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING GREATER OR EQUAL CAPACITY, AND COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
3. FASTENING WOOD FRAMING AND COLD FORMED METAL FRAMING TRACKS AND CHANNELS:
  - A. FASTENING TO CONCRETE (CONCRETE MUST ACHIEVE SPECIFIED DESIGN STRENGTH PRIOR TO FASTENER INSTALLATION):
    - i. 0.157" DIAMETER NAIL: HILTI "X-U" NAIL (ICC-ESR-2269). DETERMINE FASTENER LENGTH IN ACCORDANCE WITH ICC REPORT TO PROVIDE A MINIMUM 1 1/4" EMBEDMENT.
    - ii. 0.177" DIAMETER NAIL: HILTI "X-EDS" NAIL (ICC-ESR-1663). DETERMINE FASTENER LENGTH IN ACCORDANCE WITH ICC REPORT TO PROVIDE A MINIMUM 1 1/4" EMBEDMENT.

**SPECIAL INSPECTIONS**

1. SPECIAL INSPECTIONS ARE REQUIRED BY SECTION 1704 OF THE REFERENCED BUILDING CODE. THE INTENT OF SPECIAL INSPECTIONS IS TO VERIFY THE COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND/OR PLACEMENT OF COMPONENTS WITH THE COMPLETED SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. IT IS THE RESPONSIBILITY OF ALL PARTIES INVOLVED TO BECOME FAMILIAR WITH THE SPECIAL INSPECTION REQUIREMENTS SET FORTH IN CHAPTER 17 OF THE REFERENCED BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER OR THE OWNER'S AGENT AND SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CONTRACTOR.
  - A. THE FOLLOWING SCHEDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK. THE SPECIAL INSPECTOR(S) SHALL COORDINATE WITH THE OWNER, CONTRACTORS, AND DESIGN PROFESSIONALS AND SCHEDULE ALL INSPECTIONS ACCORDINGLY.

STRUCTURAL ENGINEERS  
800.542.3302  
schaefer-inc.com

**schaefer**

STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

**PARAMOUNT  
WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION

NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:

**GENERAL NOTES**

DATE:  
**Issue Date**

SHEET:

**S003**

STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

LEGEND		
SYMBOL	DESCRIPTION	REFERENCE
	COLUMN LINE DESIGNATION	
	FACE OF BUILDING	
	LINTEL MARK	
	HEADER MARK	
	FOOTING MARK	
	PIER MARK	
	GRADE BEAM MARK	
	BASE PL MARK	
	PEDESTAL MARK	
	SHEAR WALL MARK	
	CMU VERTICAL WALL REINFORCING MARK	
	CMU VERTICAL SHEAR WALL REINFORCING MARK	
	KEYNOTE MARK	
	STEP T/FTG	
	SLAB STEP	
	ELEVATION INDICATION	
	DECK MARK	

ABBREVIATIONS	
Key Name	Comments
AFF =	ABOVE FINISHED FLOOR ELEVATION
ARCH =	ARCHITECT
B =	BOTTOM OF
BLDG =	BUILDING
BOT =	BOTTOM
BRG =	BEARING
CFS =	COLD-FORMED STEEL
CJ =	CONTRACTION JOINT
CJP =	COMPLETE JOINT PENETRATION
CL =	CENTER LINE
CLR =	CLEAR
CLSM =	CONTROLLED LOW STRENGTH MATERIAL
CMU =	CONCRETE MASONRY UNIT
COL =	COLUMN
CONC =	CONCRETE
CONT =	CONTINUOUS
DEG or ° =	DEGREE
DIA or Ø =	DIAMETER
EA =	EACH
EF =	EACH FACE
EL =	ELEVATION
EMB =	EMBEDMENT
EQ =	EQUAL
EXIST =	EXISTING
EXP =	EXPANSION
FDN =	FOUNDATION
FS =	FAR SIDE
FTG =	FOOTING
GA =	GAGE
GALV =	GALVANIZED
GT =	GIRDER TRUSS
HORIZ =	HORIZONTAL
JST BRG =	JOIST BEARING
Ld =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ld-CMU =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU
Ldc =	COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDH =	LONG DIMENSION HORIZONTAL
Ldh =	HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDV =	LONG DIMENSION VERTICAL
LLH =	LONG LEG HORIZONTAL
LLV =	LONG LEG VERTICAL
Ls =	LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
Ls-CMU =	LAP SPLICE LENGTH OF REINFORCING BAR IN GROUTED CMU
Lsc =	COMPRESSION LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
LSL =	LAMINATED STRAND LUMBER
LVL =	LAMINATED VENEER LUMBER
MCJ =	MASONRY CONTROL JOINT
MFR =	MANUFACTURER
NS =	NEAR SIDE
OC =	ON CENTER
OPNG =	OPENING
PIT =	POST-TENSION
PAF =	POWER-ACTUATED FASTENER
PE =	PRE-ENGINEERED
PEMB =	PRE-ENGINEERED METAL BUILDING
PJP =	PARTIAL JOINT PENETRATION
PL =	PLATE
PSL =	PARALLEL STRAND LUMBER
PT =	PRESSURE TREATED
RD =	ROOF DRAIN
REINF =	REINFORCING
RTU =	ROOF TOP UNIT
SDS =	SELF DRILLING SCREWS
SIM =	SIMILAR
SL =	STEP LEDGE
SPA =	SPACE or SPACES
SRD =	SECONDARY ROOF DRAIN
STIFF =	STIFFENER
STL =	STEEL
STW =	STEP TOP OF WALL
TJ =	TOP OF
UNO =	UNLESS NOTED OTHERWISE
VB =	VERTICAL BRACING
VERT =	VERTICAL
VIF =	VERIFY IN FIELD
W =	WITH
WP =	WORK POINT

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**SPECIAL INSPECTIONS**

DATE:  
**Issue Date**

SHEET:  
**S004**



PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

COMPONENT AND CLADDING DESIGN PRESSURE INCLUDING EXTERNAL + INTERNAL EFFECTS  
(H = 74', V = 115 MPH, EXPOSURE B)

EFFECTIVE AREA	10 SF OR LESS		50 SF		100 SF		200 SF		500-1000 SF	
	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION
ZONE 1	16	-41.1	16	-35.8	16	-33.5	16	-31.2	16	-28.1
ZONE 2	16	-64.6	16	-57.1	16	-53.9	16	-50.6	16	-46.4
ZONE 3	16	-88.0	16	-78.4	16	-74.2	16	-70.1	16	-64.6

EDGE ZONE DIMENSION "a" SHALL NOT BE TAKEN LESS THAN 6'-10" FROM OUTSIDE CORNER OF BUILDING

COMPONENT & CLADDING WIND PRESSURE NOTES:

- SEE GENERAL NOTES FOR WIND LOAD DESIGN CRITERIA.
- POSITIVE LOADS ACT IN A PERPENDICULAR DIRECTION TOWARDS THE SURFACE. NEGATIVE LOADS ACT IN A PERPENDICULAR DIRECTION AWAY FROM THE SURFACE.
- LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS VALUES BETWEEN VALUES GIVEN.
- PARAPETS SHALL BE DETERMINED FROM FIGURE 1 & OVERHANGS FROM FIGURE 2.
- PRESSURES SHOWN ARE ULTIMATE (1.0W).

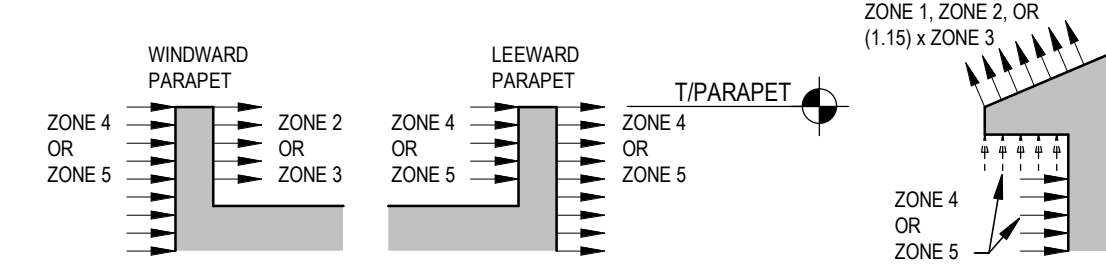
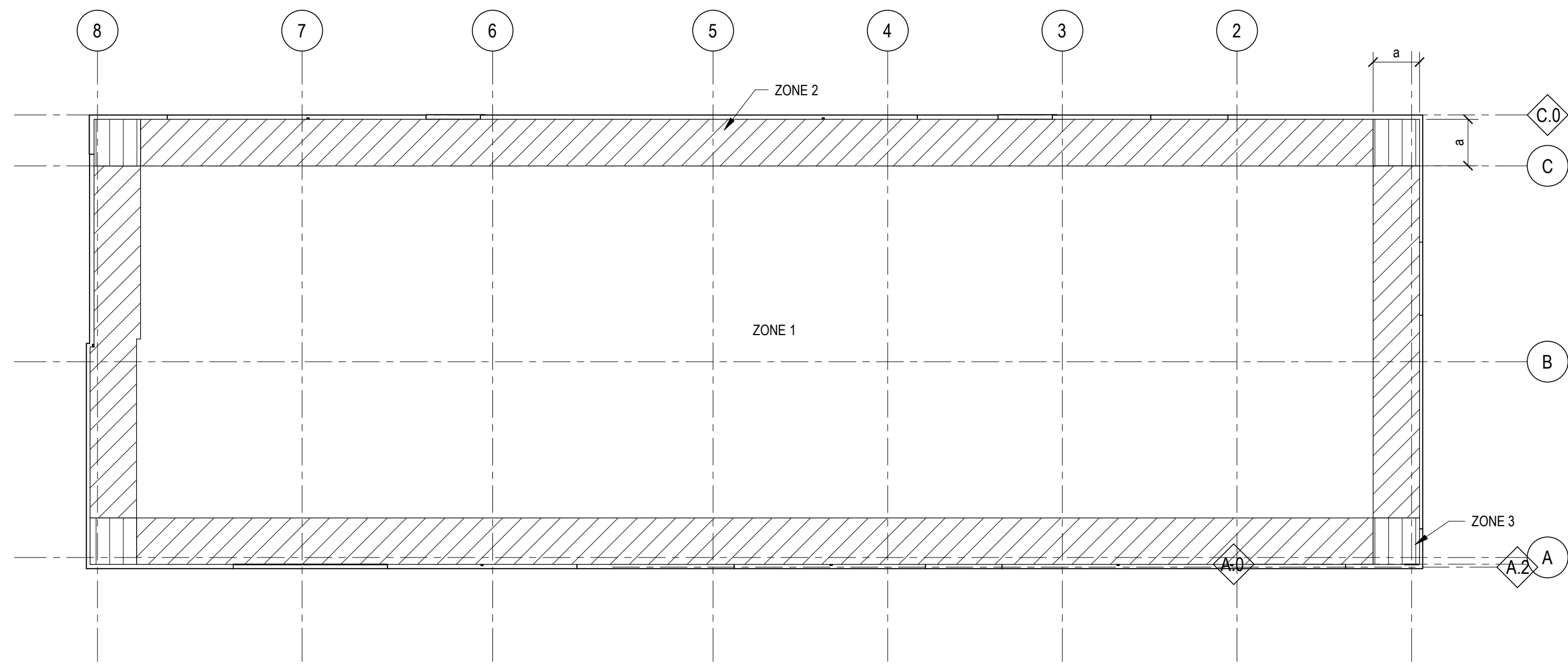
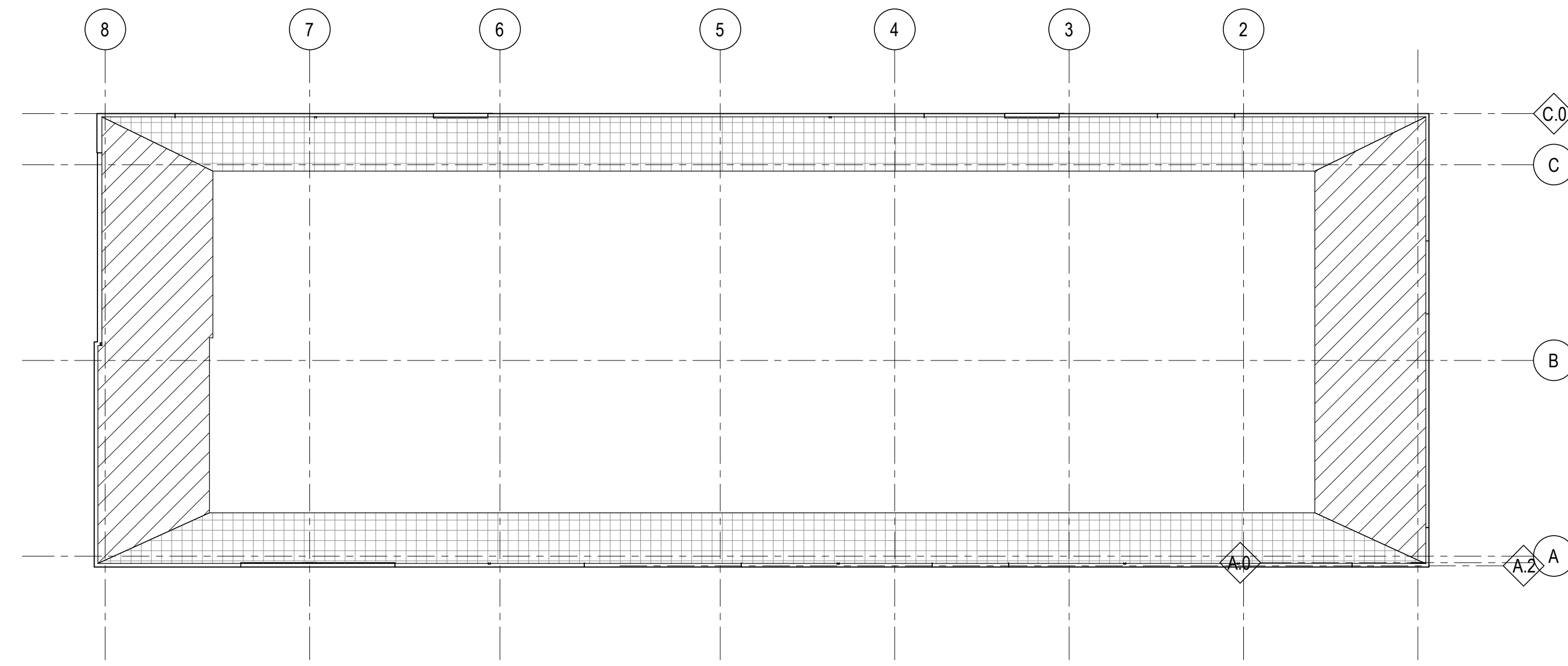


FIGURE 1: PARAPET

FIGURE 2: OVERHANG



WIND LOAD PLAN  
1/16" = 1'-0"

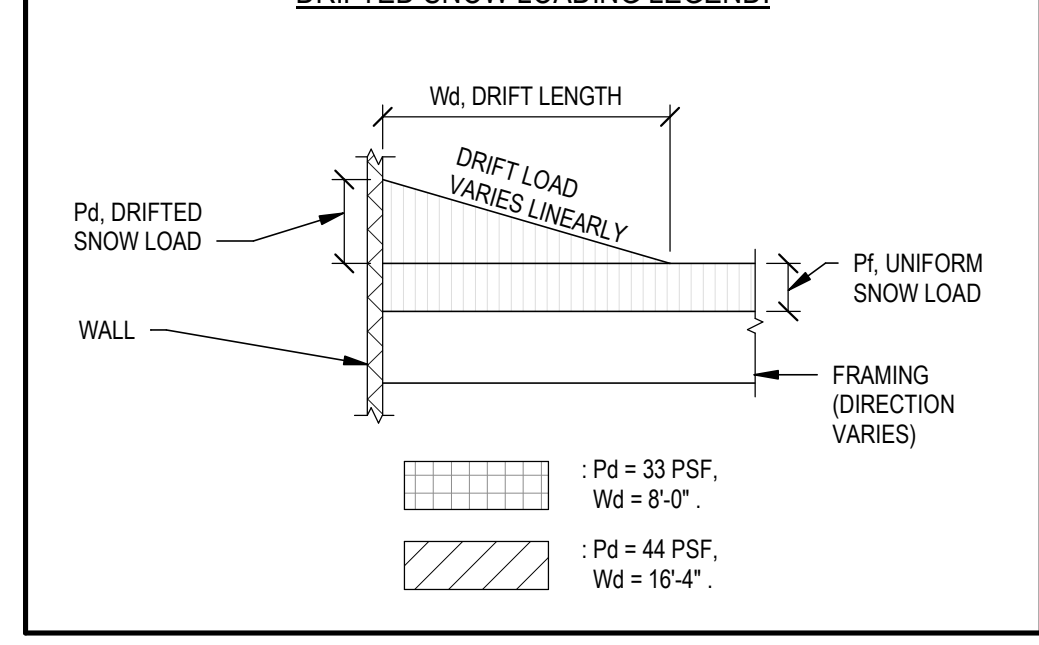


SNOW DRIFT PLAN  
1/16" = 1'-0"

ROOF SNOW DRIFT PLAN NOTES:

- DESIGN ROOF TRUSSES FOR ROOF DEAD, LIVE, & SNOW LOADS IN ACCORDANCE W/ THE GENERAL STRUCTURAL NOTES & THE LOAD COMBINATIONS SET FORTH IN THE REFERENCED BUILDING CODE. DESIGN ROOF TRUSSES FOR TWO SNOW LOAD CASES.
  - UNIFORM ROOF SNOW LOAD P<sub>u</sub> OF 20 PSF APPLIED OVER THE ENTIRE ROOF (CONSIDER UNBALANCED SNOW CASE WHERE APPLICABLE PER THE CODE).
  - UNIFORM ROOF SNOW LOAD P<sub>u</sub> OF 14 PSF APPLIED OVER THE ENTIRE ROOF. W/ SNOW DRIFT LOADS P<sub>d</sub> AS NOTED APPLIED IN ADDITION TO THE BASE LOAD. DRIFTS VARY LINEARLY FROM ZERO AT THE INNER EDGE TO THE MAXIMUM LOAD INDICATED AT THE EXTERIOR WALL.
- WHERE DRIFTED SNOW REGIONS OVERLAP ENVELOPE THE TOTAL SNOW LOAD APPLIED FROM OVERLAP BUT NEED NOT BE SUPERIMPOSED.

DRIFTED SNOW LOADING LEGEND:



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
NO DATE DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**WIND & SNOW DRIFT LOADS**

DATE:  
**Issue Date**

SHEET:  
**S005**

STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

FOOTING SCHEDULE (ISOLATED)					
MARK	SIZE			REINFORCING	REMARKS
	LENGTH (L)	WIDTH (B)	THICKNESS (H)		
65	5'-6"	6'-6"	1'-3"	(7) #5 EA WAY, BOTTOM	
66	5'-6"	6'-0"	2'-0"		
80	8'-0"	8'-0"	1'-9"	(12) #8 EA WAY	BOTTOM
90	9'-0"	9'-0"	2'-0"	(11) #8 EA WAY	BOTTOM
95	5'-0"	9'-6"	1'-9"	(6) #8 SHORT DIRECTION & (4) #8 LONG DIRECTION	BOTTOM
100	10'-0"	10'-0"	2'-0"		BOTTOM
110	11'-0"	11'-0"	2'-6"	(12) #8 EA WAY	BOTTOM
115	5'-6"	11'-6"	2'-0"	(8) #8 SHORT DIRECTION & (5) #8 LONG DIRECTION	BOTTOM
120	12'-0"	12'-0"	2'-9"	(12) #8 EA WAY	BOTTOM
135	5'-6"	13'-0"	2'-3"	(10) #8 SHORT DIRECTION & (5) #8 LONG DIRECTION	BOTTOM
145	5'-6"	14'-0"	2'-6"	(12) #8 SHORT DIRECTION & (5) #8 LONG DIRECTION	BOTTOM
157	7'-0"	15'-0"	2'-0"		
158	8'-0"	15'-0"	2'-0"		

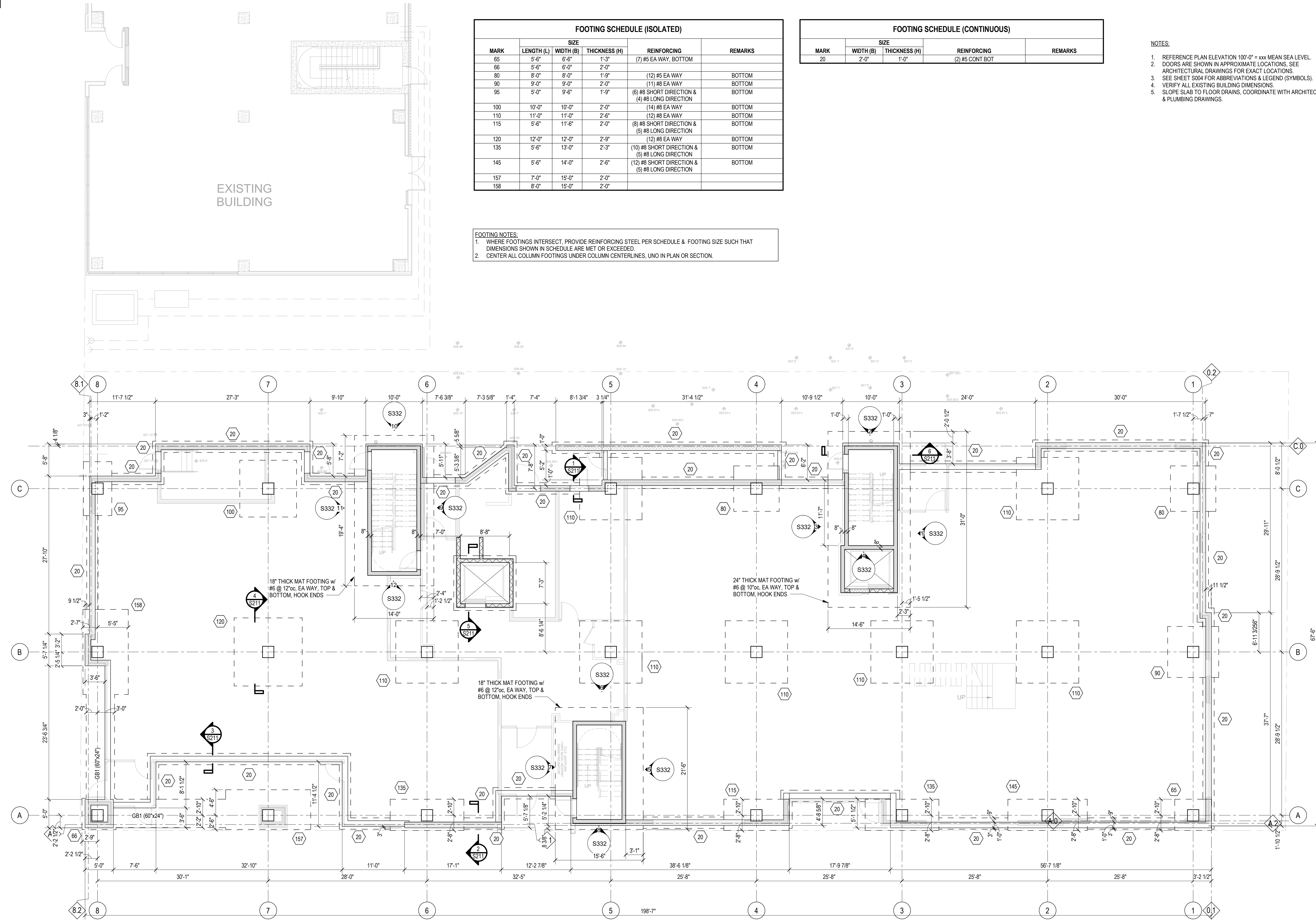
FOOTING SCHEDULE (CONTINUOUS)				
MARK	SIZE		REINFORCING	REMARKS
	WIDTH (B)	THICKNESS (H)		
20	2'-0"	1'-0"	(2) #5 CONT BOT	

NOTES:

- REFERENCE PLAN ELEVATION 100'-0" ± xxx MEAN SEA LEVEL.
- DOORS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- SEE SHEET S004 FOR ABBREVIATIONS & LEGEND (SYMBOLS).
- VERIFY ALL EXISTING BUILDING DIMENSIONS.
- SLOPE SLAB TO FLOOR DRAINS. COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS.

FOOTING NOTES:

- WHERE FOOTINGS INTERSECT, PROVIDE REINFORCING STEEL PER SCHEDULE & FOOTING SIZE SUCH THAT DIMENSIONS SHOWN IN SCHEDULE ARE MET OR EXCEEDED.
- CENTER ALL COLUMN FOOTINGS UNDER COLUMN CENTERLINES, UNO IN PLAN OR SECTION.



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

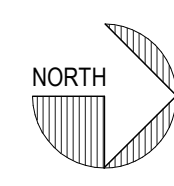
PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**FOUNDATION PLAN**

DATE:  
**Issue Date**

SHEET:  
**S101**

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

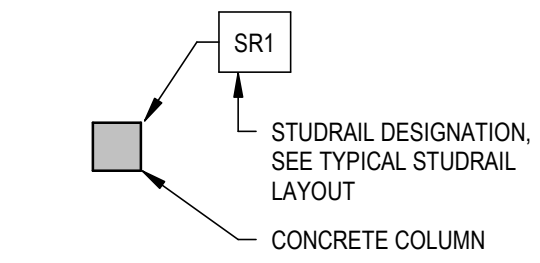


COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

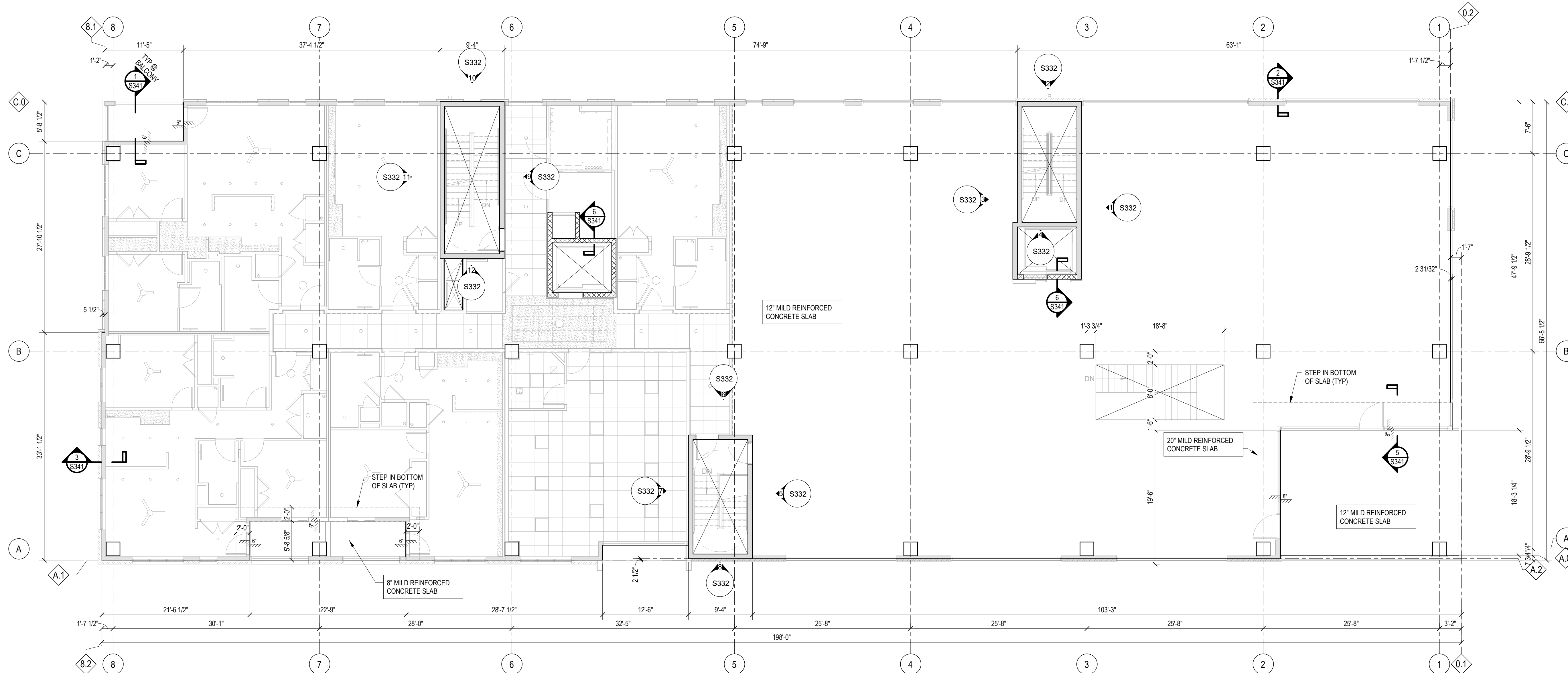
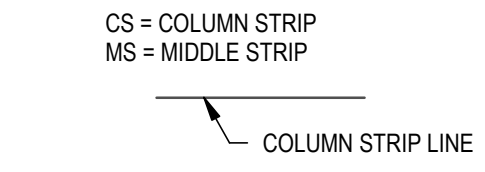
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

- PLAN NOTES:**
1. STRUCTURAL SLAB EL 115'-0", UNO.
  2. TYPICAL FLAT SLAB TO BE TWO-WAY SLAB w/ SSR WHERE INDICATED, UNO.
  3. DOORS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
  4. SEE SHEET S004 FOR ABBREVIATIONS & LEGEND (SYMBOLS).

**STUDRAIL SHEAR REINFORCEMENT:**



**COLUMN STRIP REINFORCING:**



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**SECOND FLOOR FRAMING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S102**

**SECOND FLOOR FRAMING PLAN**  
1/8" = 1'-0"

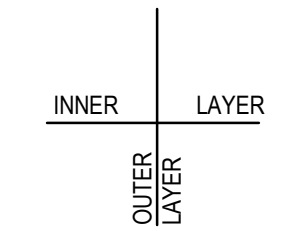
COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

STAMP:

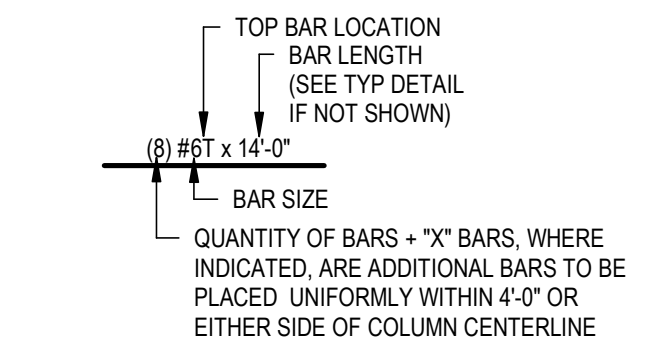
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

**FRAMING PLAN LEGEND:**

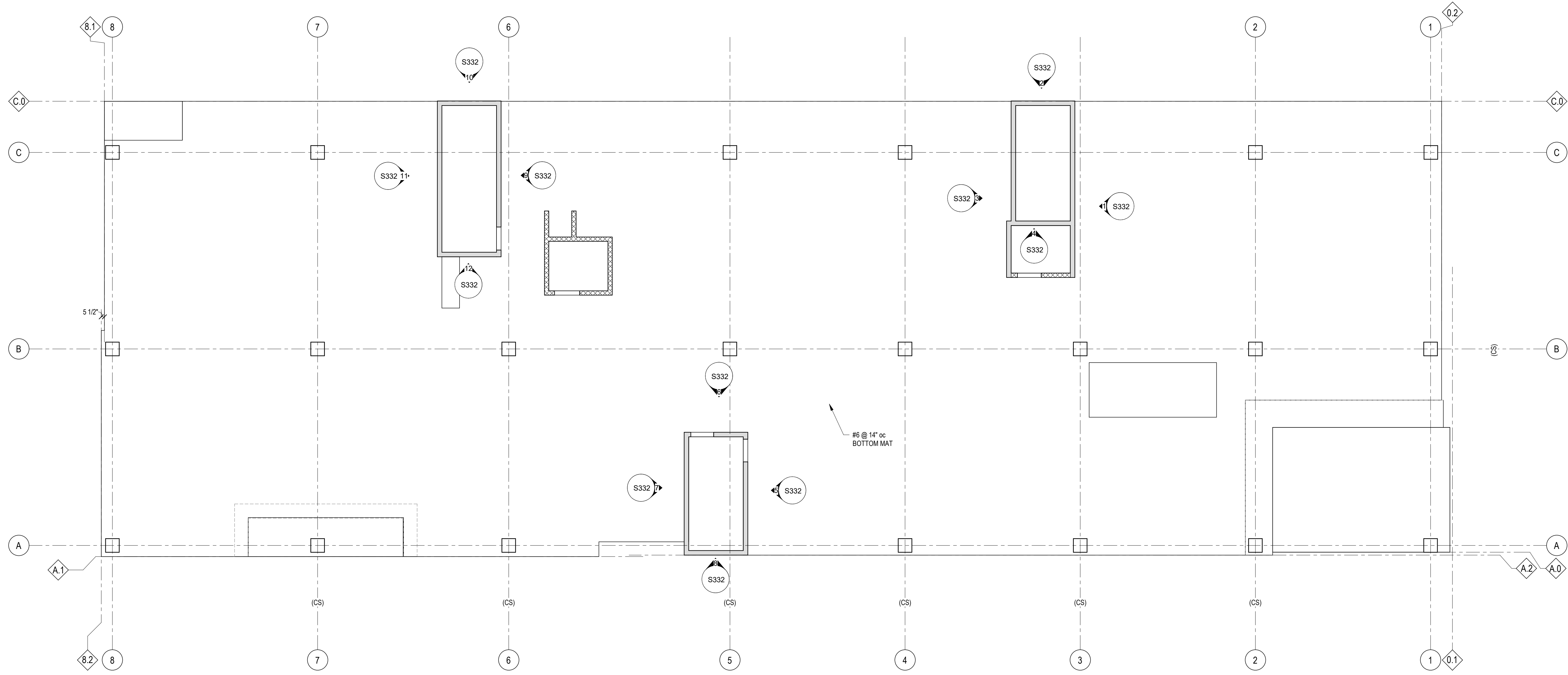
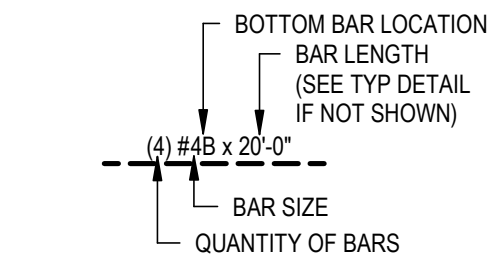
**PLACING SEQUENCE:**



**DISCONTINUOUS TOP REINFORCING BARS:**



**DISCONTINUOUS BOTTOM REINFORCING BARS:**



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**SECOND FLOOR REINFORCING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S102-R**

**SECOND FLOOR REINFORCING PLAN**  
1/8" = 1'-0"

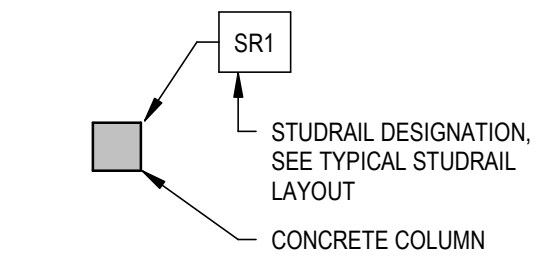
COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.



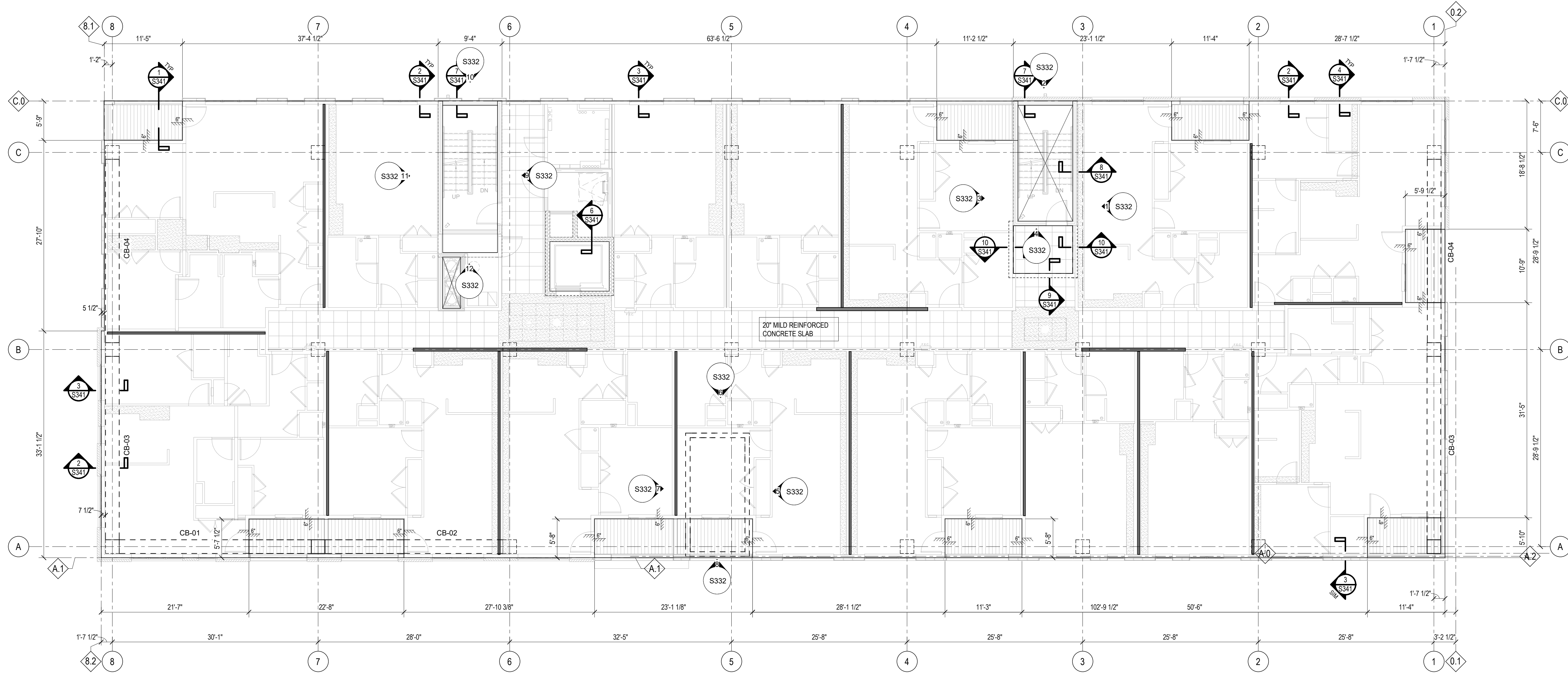
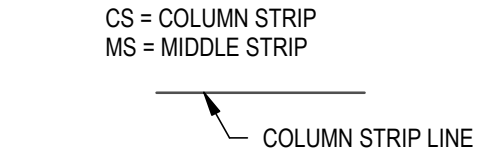
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

- PLAN NOTES:**
1. TYPICAL STRUCTURAL SLAB EL 128'-6", UNO.
  2. TYPICAL PODIUM SLAB TO BE FLAT TWO-WAY SLAB w/ SSR WHERE INDICATED, UNO.
  3. DOORS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
  4. SEE SHEET S004 FOR ABBREVIATIONS & LEGEND (SYMBOLS).

**STUDRAIL SHEAR REINFORCEMENT:**



**COLUMN STRIP REINFORCING:**



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**THIRD FLOOR FRAMING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S103**

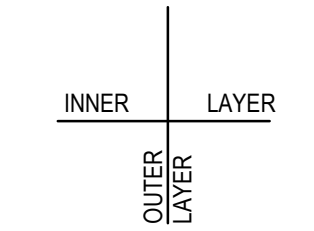
**THIRD FLOOR FRAMING PLAN**  
1/8" = 1'-0"

COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

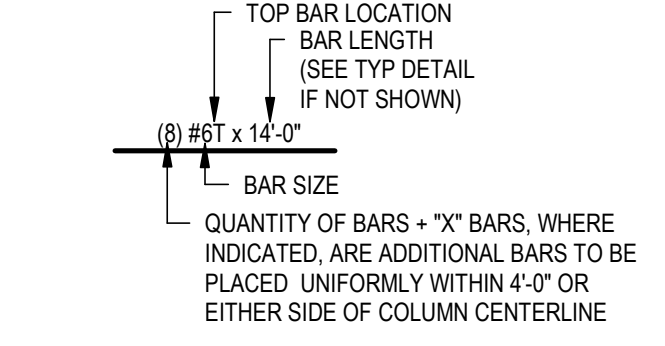
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

**FRAMING PLAN LEGEND:**

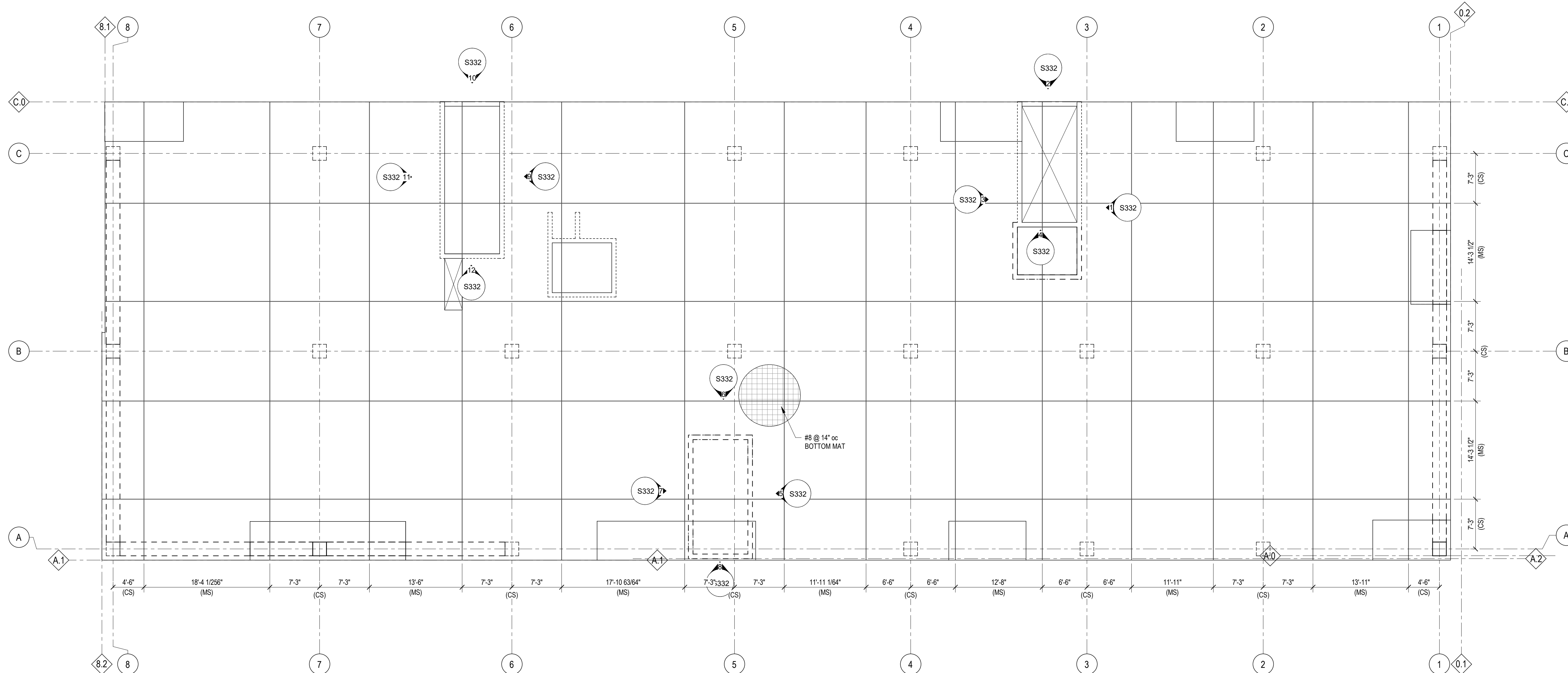
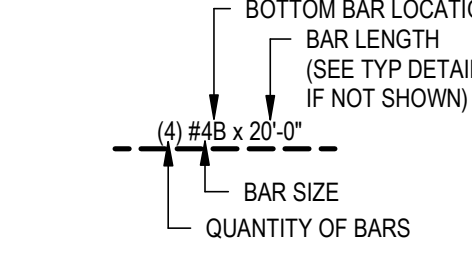
**PLACING SEQUENCE:**



**DISCONTINUOUS TOP REINFORCING BARS:**



**DISCONTINUOUS BOTTOM REINFORCING BARS:**



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**THIRD FLOOR REINFORCING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S103-R**

**THIRD FLOOR REINFORCING PLAN**  
1/8" = 1'-0"

COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

C:\Users\jamesk\Documents\PARAMOUNT\COMMONS\_STRUCT\F03\jamesk\frame.rvt  
10/20/2023 12:38:14 PM  
Rev: 2/1/23



**WOOD FRAMING LEGEND:**

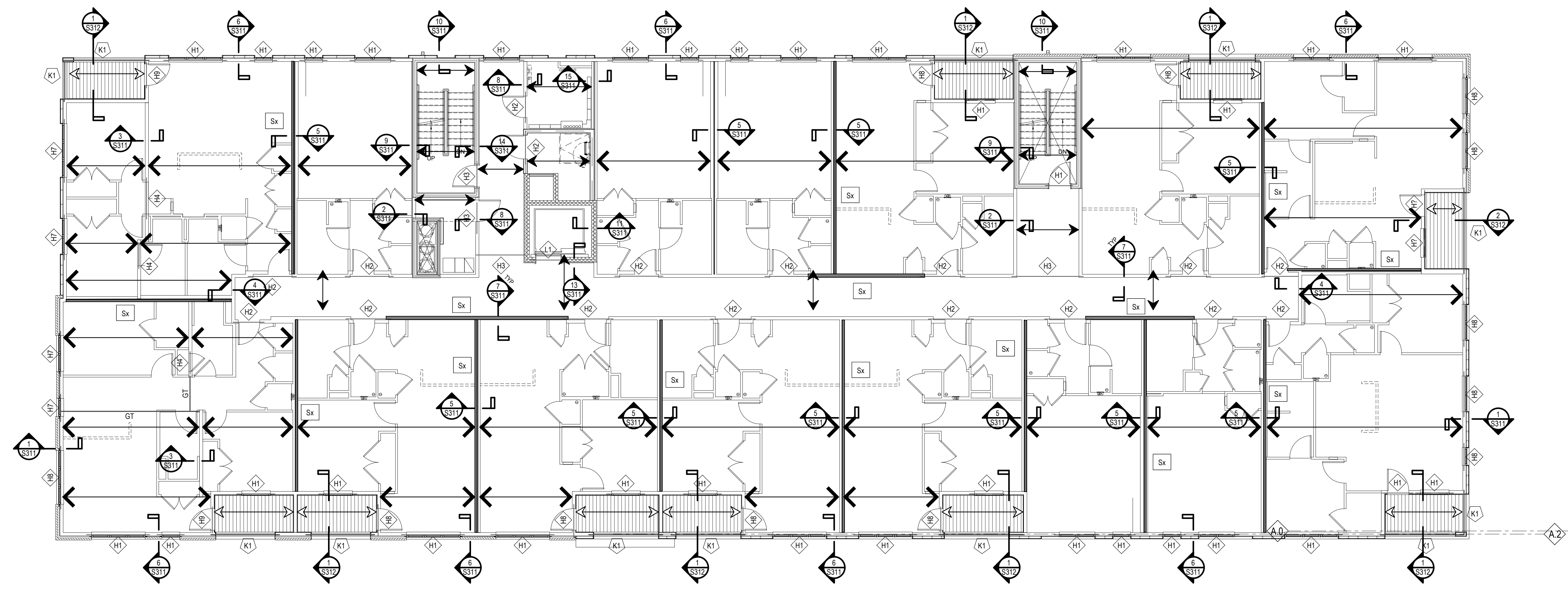
SYMBOL	DESCRIPTION
	20" DEEP WOOD FLOOR TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	WOOD ROOF TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	2x10 @ 16"oc w/ LUS210 EA END. TYPICAL UNLESS NOTED OTHERWISE.
	PT 2x10 @ 16"oc w/ LUS210Z EA END. TYPICAL UNLESS NOTED OTHERWISE.
	HEADER MARK.
	SHEAR WALL TYPE MARK. ??? SEE ARCHITECT FOR SHEAR WALL SHEATHING SIDE.
	SHEAR WALL EXTENTS. SEE PLAN FOR TYPE MARK.

**SPAN ARROW VISUAL DESCRIPTION:**

**FLOOR FRAMING KEYNOTES**

K#	DESCRIPTION
K1	PT (3) 2x10 BEAM

- WOOD FLOOR FRAMING PLAN NOTES:**
- T/FLOOR SHEATHING:
    - FOURTH FLOOR EL: 139'-3 7/8"
    - FIFTH FLOOR EL: 150'-1 3/4"
    - SIXTH FLOOR EL: 160'-11 5/8"
  - BACKGROUND ARCHITECTURAL LAYOUT:
    - LAYOUT SHOWN IS FLOOR BELOW.
    - DOORS & WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS & ELEVATIONS.
    - DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNO.
  - REFERENCE UPPER LEVEL FLOOR & ROOF FRAMING PLANS & PLAN NOTES FOR ADDITIONAL LOCATIONS OF BEARING STUDS FROM ABOVE. PROVIDE WOOD STUDS & BLOCKING EQUAL TO OR WIDER THAN BEAM/GIRDER, CONTINUOUS TO BEAM/FOUNDATION.
  - TRUSS DESIGNER:
    - SHEET S001 STRUCTURAL NOTES & DESIGN CRITERIA.
    - COORDINATE W/ ARCHITECTURAL & MEP DRAWINGS FOR LIGHTING, VERTICAL PLUMBING, DUCTWORK & SHAFT LOCATIONS. PROVIDE GIRDER TRUSSES AS REQUIRED TO FRAME AROUND SHAFT OPENINGS.
  - REFER TO THE FOLLOWING:
    - SHEET S002 STRUCTURAL NOTES, ABBREVIATIONS & LEGENDS (SYMBOLS).
    - SHEET S002 WOOD SHEATHING & WOOD STRUCTURE NOTES.
    - SHEET S314 WOOD STUD WALL SCHEDULE & TYPICAL FRAMING DETAILS.
    - SHEET S315 WOOD SHEAR WALL SCHEDULE & TYPICAL SHEAR WALL DETAILS.
    - SHEET S400 MASONRY SCHEDULES & TYPICAL MASONRY DETAILS.
    - SHEET S400 LOOSE-LAID VENEER LINTEL SCHEDULE.



**FOURTH FLOOR FRAMING PLAN**  
1/8" = 1'-0"

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION

NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**FOURTH FLOOR FRAMING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S104**



STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

**WOOD FRAMING LEGEND:**

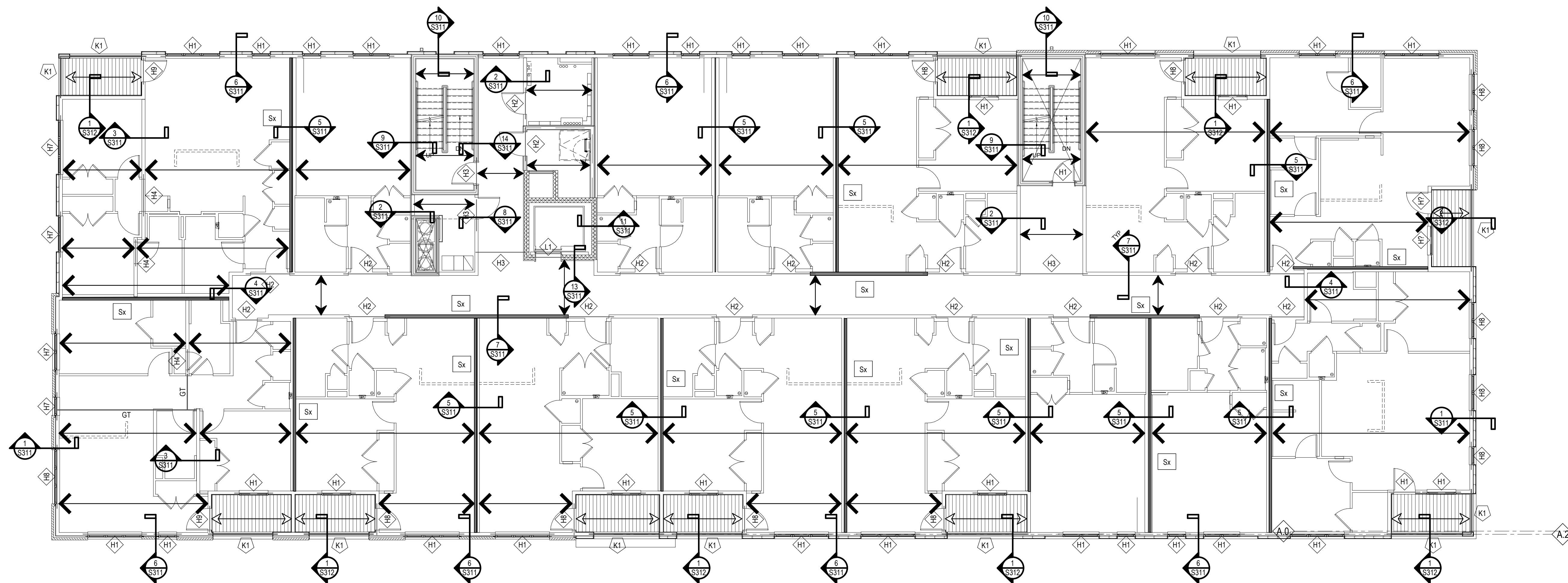
SYMBOL	DESCRIPTION
	20" DEEP WOOD FLOOR TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	WOOD ROOF TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	2x10 @ 16"oc w/ LUS210 EA END. TYPICAL UNLESS NOTED OTHERWISE.
	PT 2x10 @ 16"oc w/ LUS210Z EA END. TYPICAL UNLESS NOTED OTHERWISE.
	HEADER MARK.
	SHEAR WALL TYPE MARK. ??? SEE ARCHITECT FOR SHEAR WALL SHEATHING SIDE.
	SHEAR WALL EXTENTS. SEE PLAN FOR TYPE MARK.

**SPAN ARROW VISUAL DESCRIPTION:**

FLOOR FRAMING KEYNOTES	
K#	DESCRIPTION
K1	PT (3) 2x10 BEAM

**WOOD FLOOR FRAMING PLAN NOTES:**

- T/FLOOR SHEATHING:
  - FOURTH FLOOR EL: 139'-3 7/8"
  - FIFTH FLOOR EL: 150'-1 3/4"
  - SIXTH FLOOR EL: 160'-11 5/8"
- BACKGROUND ARCHITECTURAL LAYOUT:
  - LAYOUT SHOWN IS FLOOR BELOW.
  - DOORS & WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS & ELEVATIONS.
  - DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNO.
- REFERENCE UPPER LEVEL FLOOR & ROOF FRAMING PLANS & PLAN NOTES FOR ADDITIONAL LOCATIONS OF BEARING STUDS FROM ABOVE. PROVIDE WOOD STUDS & BLOCKING EQUAL TO OR WIDER THAN BEAM/GIRDER, CONTINUOUS TO BEAM/FOUNDATION.
- TRUSS DESIGNER:
  - SHEET S001 STRUCTURAL NOTES & DESIGN CRITERIA.
  - COORDINATE W/ ARCHITECTURAL & MEP DRAWINGS FOR LIGHTING, VERTICAL PLUMBING, DUCTWORK & SHAFT LOCATIONS. PROVIDE GIRDER TRUSSES AS REQUIRED TO FRAME AROUND SHAFT OPENINGS.
- REFER TO THE FOLLOWING:
  - SHEET S002 STRUCTURAL NOTES, ABBREVIATIONS & LEGENDS (SYMBOLS).
  - SHEET S002 WOOD SHEATHING & WOOD STRUCTURE NOTES.
  - SHEET S314 WOOD STUD WALL SCHEDULE & TYPICAL FRAMING DETAILS.
  - SHEET S315 WOOD SHEAR WALL SCHEDULE & TYPICAL SHEAR WALL DETAILS.
  - SHEET S400 MASONRY SCHEDULES & TYPICAL MASONRY DETAILS.
  - SHEET S400 LOOSE-LAID VENEER LINTEL SCHEDULE.



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**FIFTH FLOOR FRAMING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S105**

FIFTH FLOOR FRAMING PLAN  
1/8" = 1'-0" NORTH

COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.



**WOOD FRAMING LEGEND:**

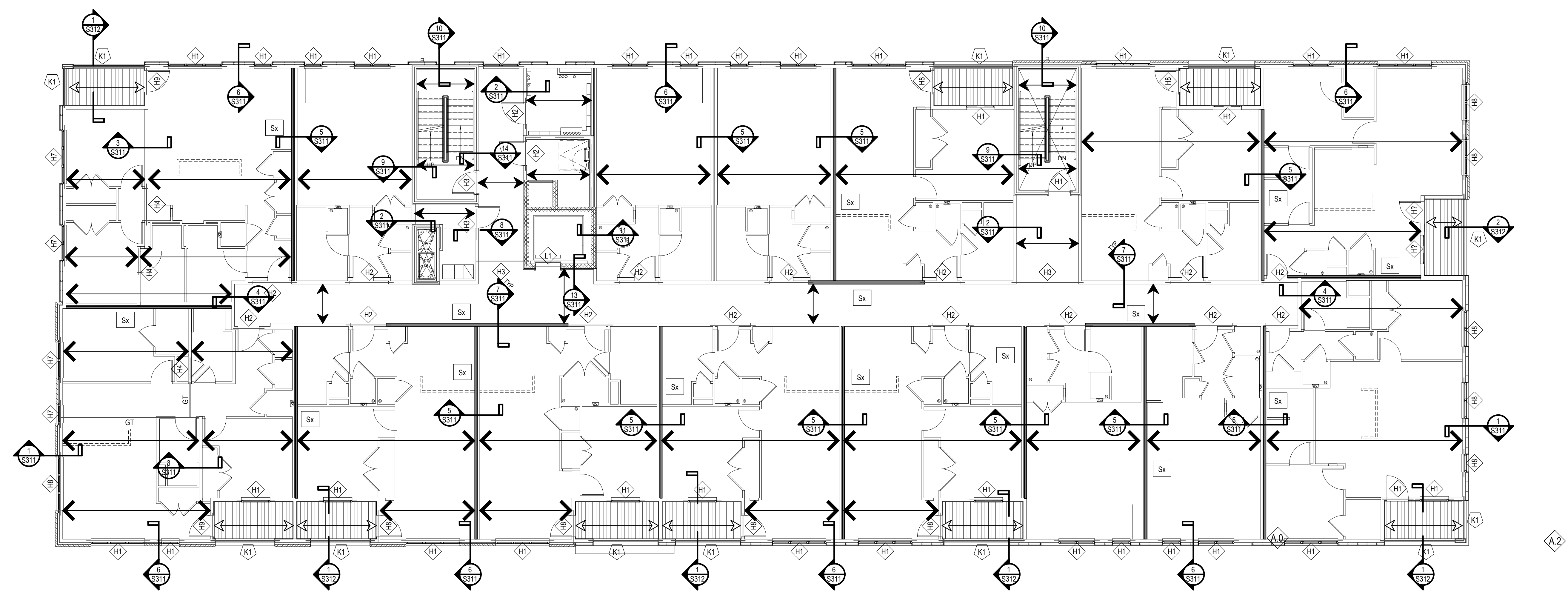
SYMBOL	DESCRIPTION
	20" DEEP WOOD FLOOR TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	WOOD ROOF TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	2x10 @ 16"oc w/ LUS210 EA END. TYPICAL UNLESS NOTED OTHERWISE.
	PT 2x10 @ 16"oc w/ LUS210Z EA END. TYPICAL UNLESS NOTED OTHERWISE.
	HEADER MARK.
	SHEAR WALL TYPE MARK. ??? SEE ARCHITECT FOR SHEAR WALL SHEATHING SIDE.
	SHEAR WALL EXTENTS. SEE PLAN FOR TYPE MARK.

**SPAN ARROW VISUAL DESCRIPTION:**

**FLOOR FRAMING KEYNOTES**

K#	DESCRIPTION
K1	PT (3) 2x10 BEAM

- WOOD FLOOR FRAMING PLAN NOTES:**
- T/FLOOR SHEATHING:
    - FOURTH FLOOR EL: 139'-3 7/8"
    - FIFTH FLOOR EL: 150'-1 3/4"
    - SIXTH FLOOR EL: 160'-11 5/8"
  - BACKGROUND ARCHITECTURAL LAYOUT:
    - LAYOUT SHOWN IS FLOOR BELOW.
    - DOORS & WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS & ELEVATIONS.
    - DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNO.
  - REFERENCE UPPER LEVEL FLOOR & ROOF FRAMING PLANS & PLAN NOTES FOR ADDITIONAL LOCATIONS OF BEARING STUDS FROM ABOVE. PROVIDE WOOD STUDS & BLOCKING EQUAL TO OR WIDER THAN BEAM/GIRDER, CONTINUOUS TO BEAM/FOUNDATION.
  - TRUSS DESIGNER:
    - SHEET S001 STRUCTURAL NOTES & DESIGN CRITERIA.
    - COORDINATE W/ ARCHITECTURAL & MEP DRAWINGS FOR LIGHTING, VERTICAL PLUMBING, DUCTWORK & SHAFT LOCATIONS. PROVIDE GIRDER TRUSSES AS REQUIRED TO FRAME AROUND SHAFT OPENINGS.
  - REFER TO THE FOLLOWING:
    - SHEET S002 STRUCTURAL NOTES, ABBREVIATIONS & LEGENDS (SYMBOLS).
    - SHEET S002 WOOD SHEATHING & WOOD STRUCTURE NOTES.
    - SHEET S314 WOOD STUD WALL SCHEDULE & TYPICAL FRAMING DETAILS.
    - SHEET S315 WOOD SHEAR WALL SCHEDULE & TYPICAL SHEAR WALL DETAILS.
    - SHEET S400 MASONRY SCHEDULES & TYPICAL MASONRY DETAILS.
    - SHEET S400 LOOSE-LAID VENEER LINTEL SCHEDULE.



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION

NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**SIXTH FLOOR FRAMING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S106**

**SIXTH FLOOR FRAMING PLAN**  
1/8" = 1'-0"

COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

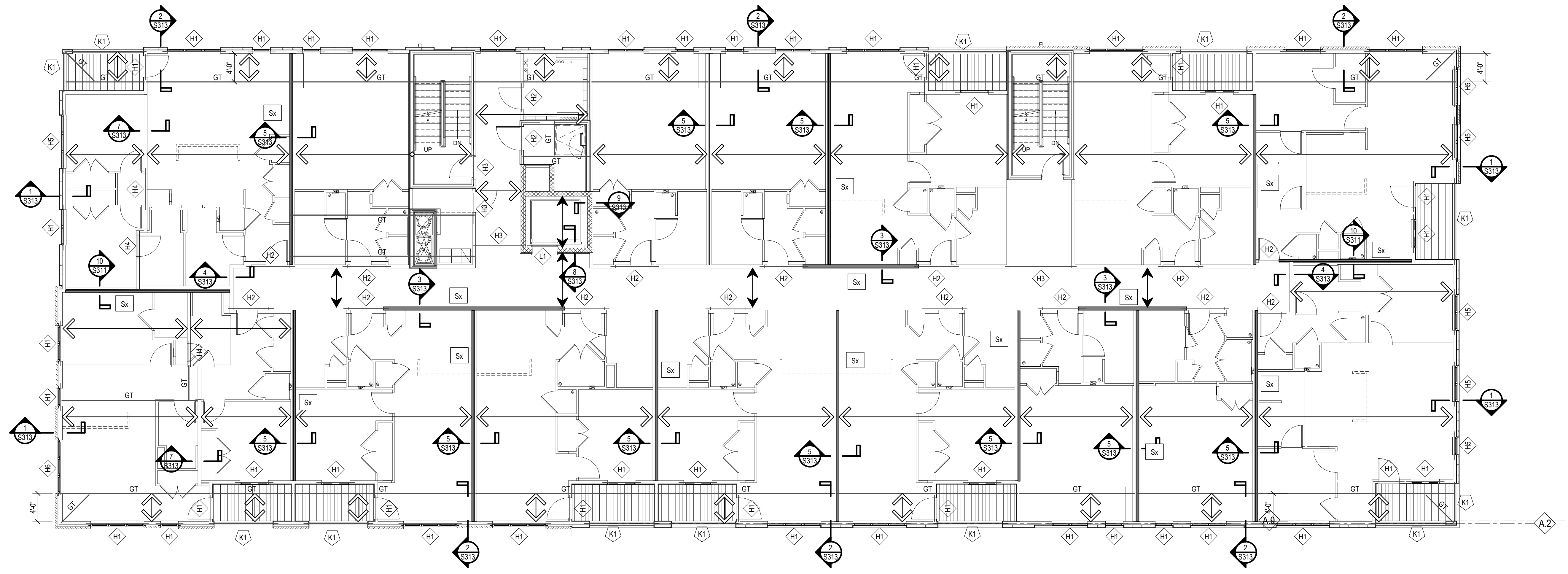
**WOOD FRAMING LEGEND:**

SYMBOL	DESCRIPTION
	20" DEEP WOOD FLOOR TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	WOOD ROOF TRUSSES @ 24"oc MAX. TYPICAL UNLESS NOTED OTHERWISE.
	2x10 @ 16"oc w/ LUS210 EA END. TYPICAL UNLESS NOTED OTHERWISE.
	PT 2x10 @ 16"oc w/ LUS210Z EA END. TYPICAL UNLESS NOTED OTHERWISE.
	HEADER MARK.
	SHEAR WALL TYPE MARK. ??? SEE ARCHITECT FOR SHEAR WALL SHEATHING SIDE.
	SHEAR WALL EXTENTS. SEE PLAN FOR TYPE MARK.

**SPAN ARROW VISUAL DESCRIPTION:**

ROOF FRAMING KEYNOTES	
K#	DESCRIPTION
K1	PT (3) 2x6 BEAM

- WOOD ROOF FRAMING PLAN NOTES:**
- TRUSS BEARING EL. ???-??  
1/8" STEEL EL. ???-?? UNLESS NOTED (4x-XX") ON PLAN.  
A. STEEL FABRICATOR SHALL DESIGN BEAM END CONNECTIONS FOR UNFACTORED LOADS WHERE INDICATED ON PLAN.
  - BACKGROUND ARCHITECTURAL LAYOUT:  
A. LAYOUT SHOWN IS FLOOR BELOW.  
B. DOORS & WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS & ELEVATIONS.  
C. DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNO.
  - PROVIDE (3) 2x6 BEARING STUDS UNLESS NOTED OTHERWISE AT EACH GIRDER TRUSS BEARING LOCATION. PROVIDE SOLID BLOCKING IN FLOOR SPACE. SEE "TYPICAL HOLDOWN AT GIRDER TRUSS" DETAIL ON TYPICAL FRAMING DETAILS SHEET. CONTINUE STUDS DOWN TO FOUNDATION OR BEAM.  
5. ADD (2) 2x6 STUDS IN WALL AT EACH GUARDRAIL, (DECK OR JULIET) CONNECTION TO WALL LOCATION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS. ADDITIONAL STUDS NOT REQUIRED IF CONNECTING TO WINDOW/DOOR OPENING JAMB.
  - TRUSS DESIGNER:  
A. SHEET S777? STRUCTURAL NOTES & DESIGN CRITERIA.  
B. SHEET S777? COMPONENTS & CLADDING WIND LOADS.  
C. SHEET S777? DRIFTED SNOW LOADING PLANS.  
D. SHEET S777? HORIZONTAL DEFLECTION LIMITS.  
E. COORDINATE FINAL SIZE, LOCATION & WEIGHT OF RTUS & ROOF OPENINGS W/ ARCHITECTURAL & MEP DRAWINGS PRIOR TO WOOD TRUSS SHOP DRAWING REVIEW.  
F. COORDINATE W/ ARCHITECTURAL & MEP DRAWINGS FOR LIGHTING, VERTICAL PLUMBING, DUCTWORK, & SHAFT LOCATIONS. PROVIDE GIRDER TRUSSES AS REQUIRED TO FRAME AROUND SHAFT OPENINGS.
  - REFER TO THE FOLLOWING:  
A. SHEET S777? STRUCTURAL NOTES, ABBREVIATIONS & LEGENDS (SYMBOLS).  
B. SHEET S777? WOOD SHEATHING & WOOD STRUCTURAL NOTES.  
C. SHEET S777? WOOD STUD WALL SCHEDULE & TYPICAL FRAMING DETAILS.  
D. SHEET S777? WOOD SHEAR WALL SCHEDULE & TYPICAL SHEAR WALL DETAILS.  
E. SHEET S777? WOOD TRUSS PERMANENT BRACING.  
F. SHEET S777? MASONRY SCHEDULES & TYPICAL MASONRY DETAILS.  
G. SHEET S777? LOOSE-LAID VENEER LINTEL SCHEDULE.



**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

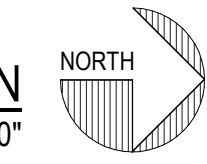
PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**ROOF FRAMING PLAN**

DATE:  
**Issue Date**

SHEET:  
**S107**

**ROOF FRAMING PLAN**  
1/8" = 1'-0"



COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.



STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

**PARAMOUNT  
WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
NO DATE DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**ENLARGED PLANS**

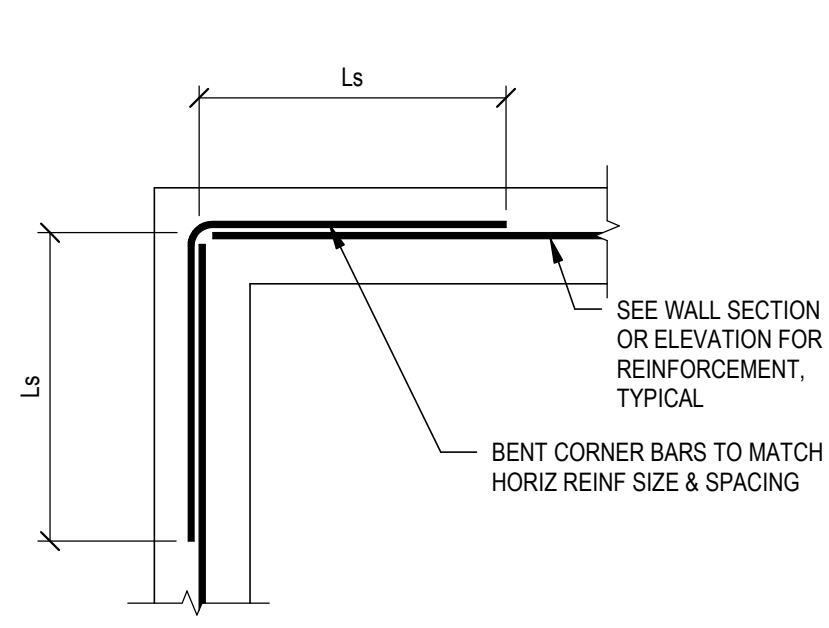
DATE:  
**Issue Date**

SHEET:  
**S151**

COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE  
PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT  
NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR  
USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE  
FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN  
CONSENT OF SCHAEFER.

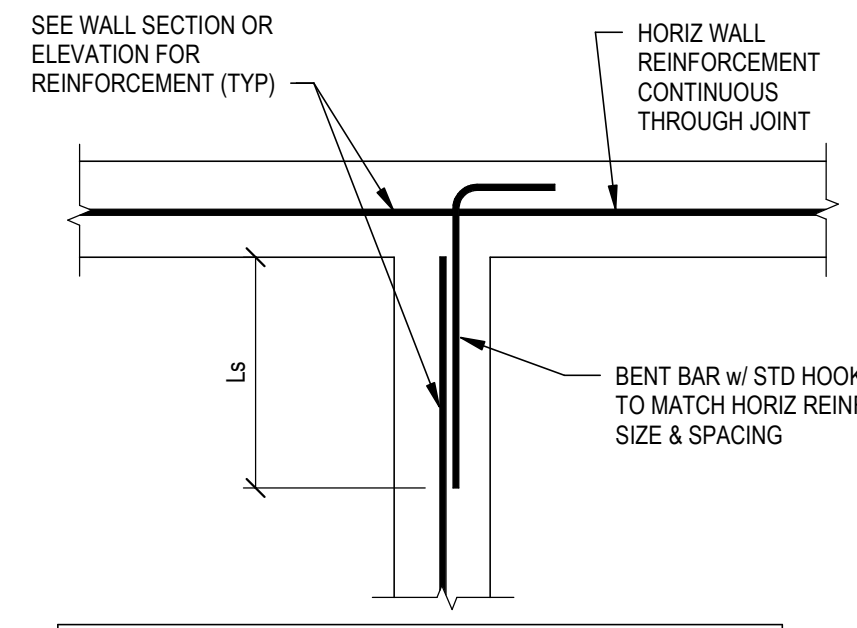
STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



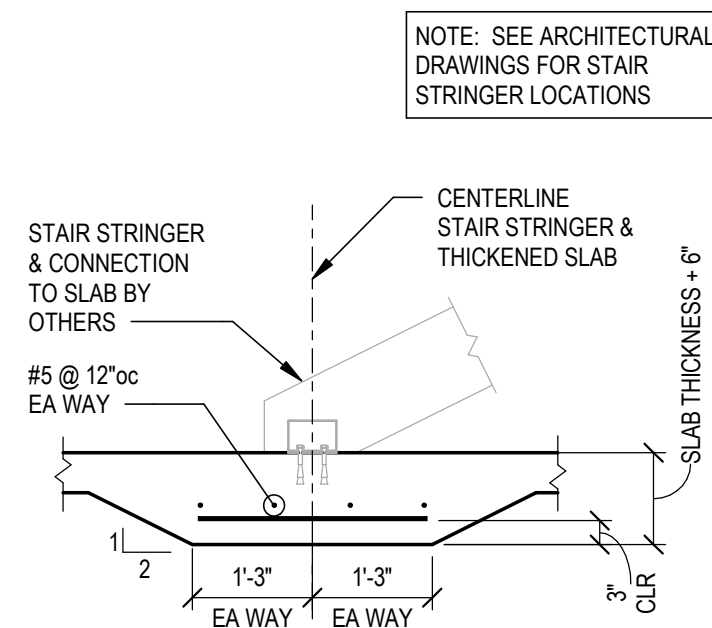
NOTES:  
1. VERTICAL REINFORCEMENT BARS NOT SHOWN FOR CLARITY.

**TYPICAL CONCRETE WALL CORNER REINFORCEMENT DETAIL AT SINGLE CURTAIN OF STEEL**  
NTS

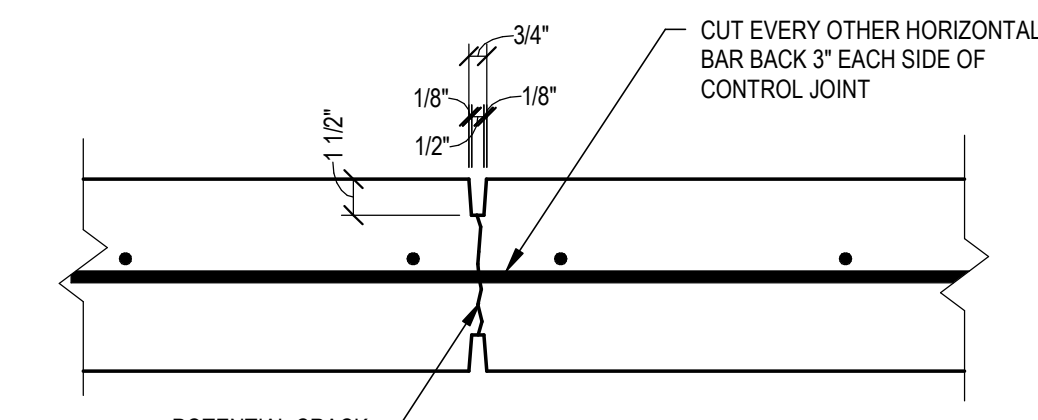


NOTES:  
1. VERTICAL REINFORCEMENT BARS NOT SHOWN FOR CLARITY.

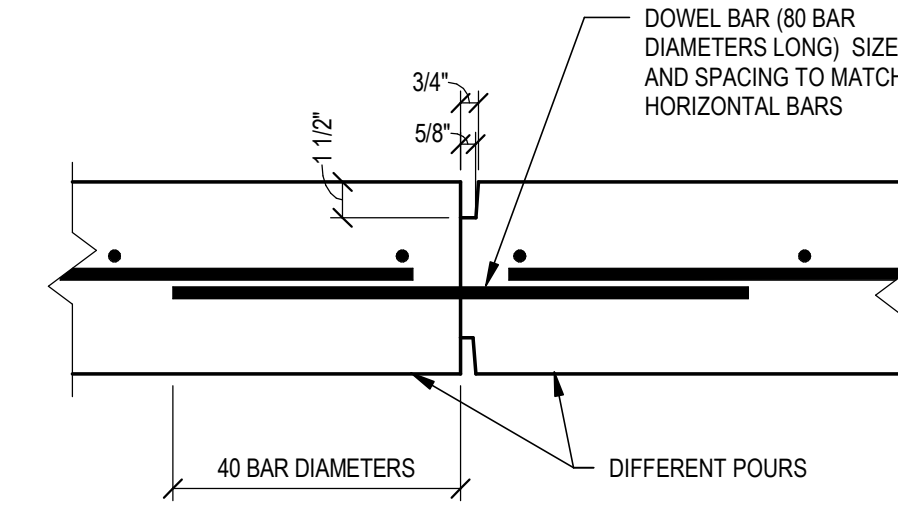
**TYPICAL CONCRETE WALL INTERSECTION REINFORCEMENT DETAIL AT SINGLE CURTAIN OF STEEL**  
3/4" = 1'-0"



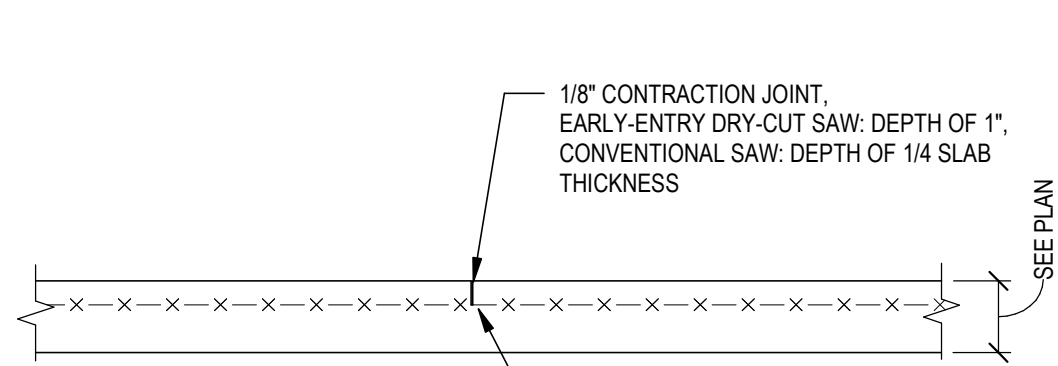
**TYPICAL THICKENED SLAB BELOW STAIR STRINGER**  
1/2" = 1'-0"



**CONCRETE WALL TYPICAL VERTICAL CONTROL JOINT @ SINGLE LAYER OF STEEL**  
1 1/2" = 1'-0"

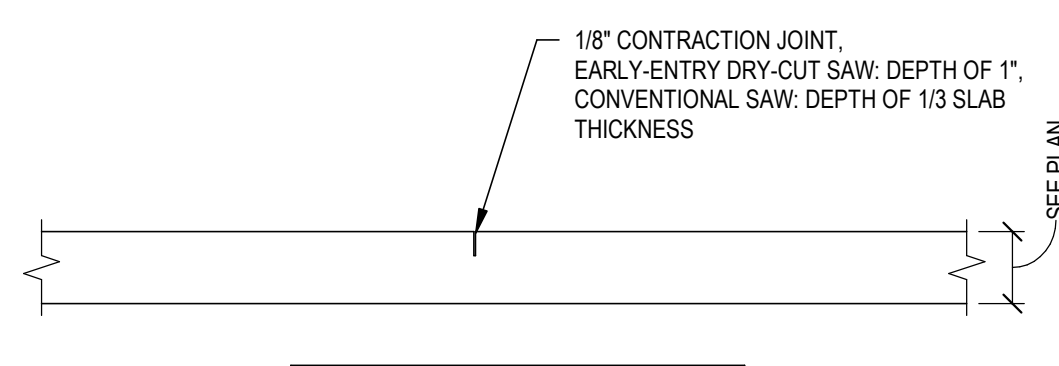


**CONCRETE WALL TYPICAL VERTICAL CONSTRUCTION JOINT @ SINGLE LAYER OF STEEL**  
1 1/2" = 1'-0"



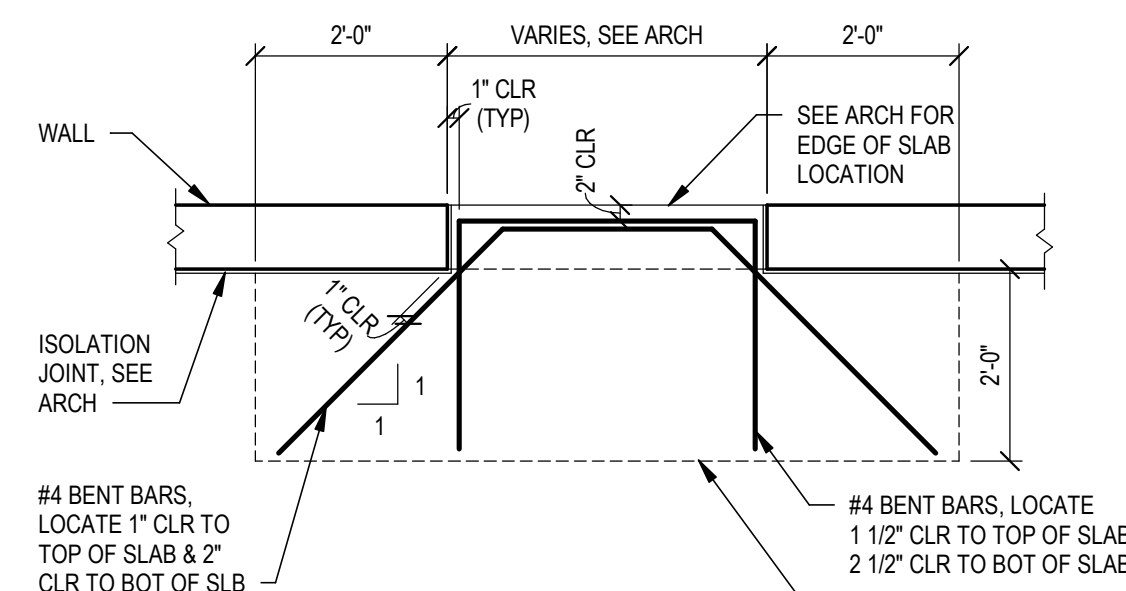
NOTE: SAW JOINTS AS SOON AS CUTTING ACTION WILL NOT DISPLACE AGGREGATE OR OTHERWISE TEAR, ABRASE OR DAMAGE SURFACE

**SLAB ON GRADE TYPICAL CONTRACTION JOINT**  
NTS



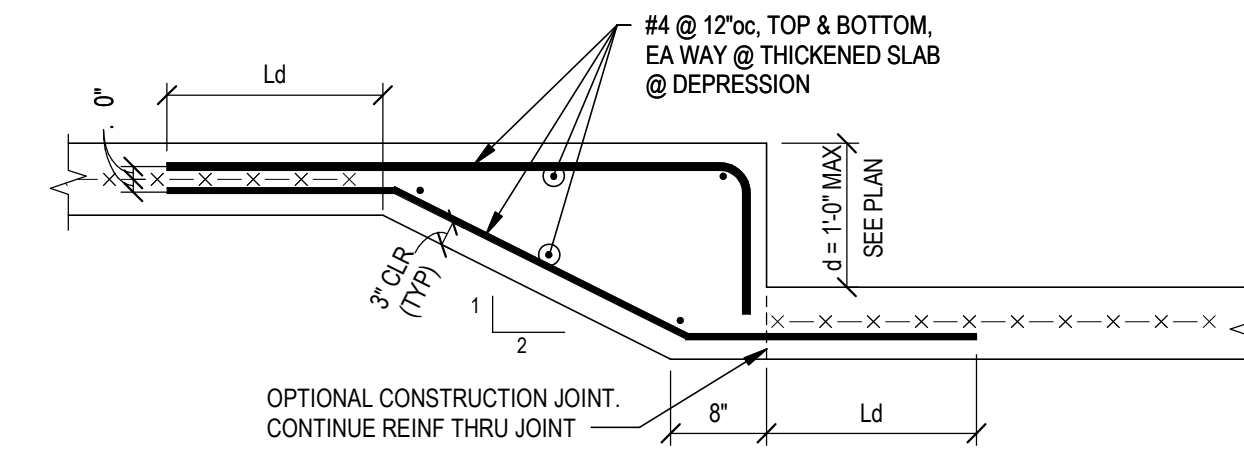
NOTE: SAW JOINTS AS SOON AS CUTTING ACTION WILL NOT DISPLACE AGGREGATE OR OTHERWISE TEAR, ABRASE OR DAMAGE SURFACE

**SLAB ON GRADE TYPICAL CONTRACTION JOINT**  
NTS



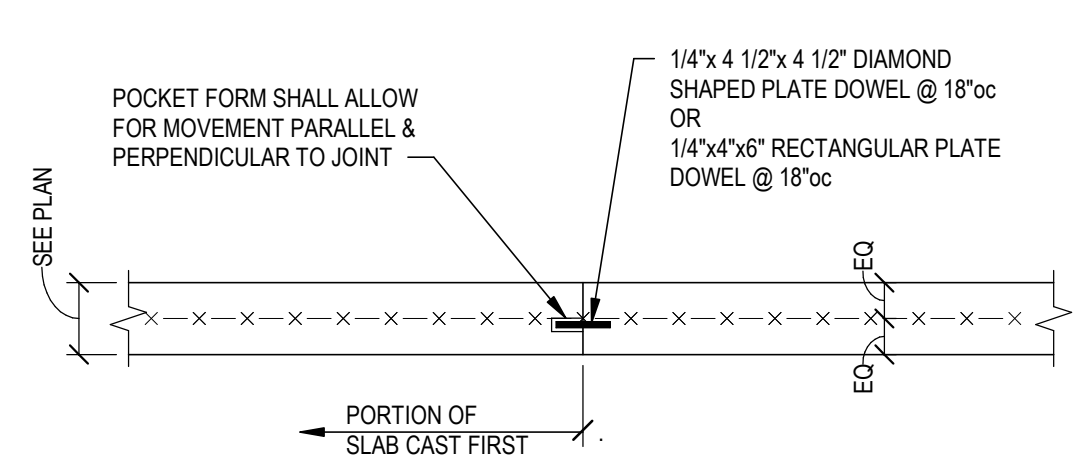
NOTE: HOOK REINFORCING AS NECESSARY TO AVOID CROSSING CONSTRUCTION AND CONTRACTION JOINTS. MAINTAIN 2" CLR TO JOINTS.

**TYPICAL SLAB ON GRADE AT DOOR THRESHOLD**  
1/2" = 1'-0"



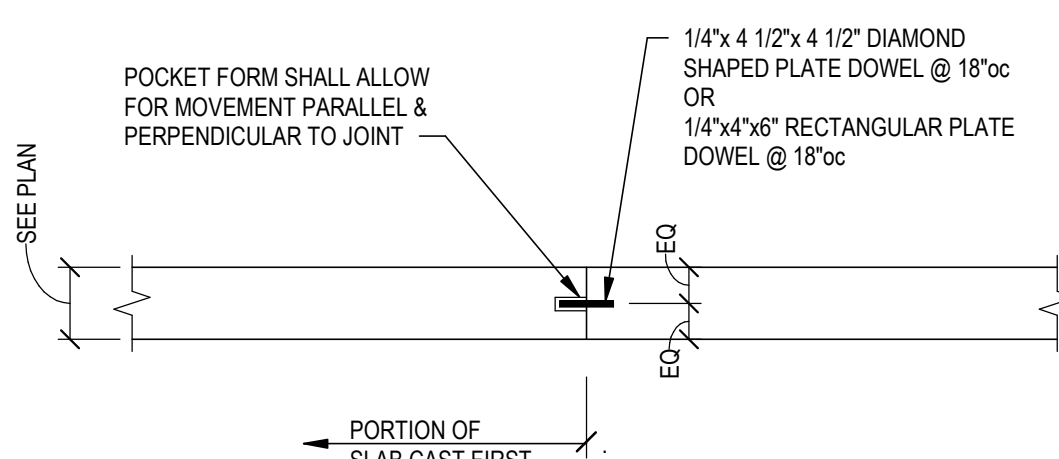
NOTE: CONTRACTOR SHALL VERIFY SLAB DEPRESSION DEPTH & EXTENTS w/ FINAL SELECTION OF FLOORING &/OR EQUIPMENT AT SLAB DEPRESSION

**TYPICAL SLAB ON GRADE AT DEPRESSION 3" < d ≤ 12"**  
NTS



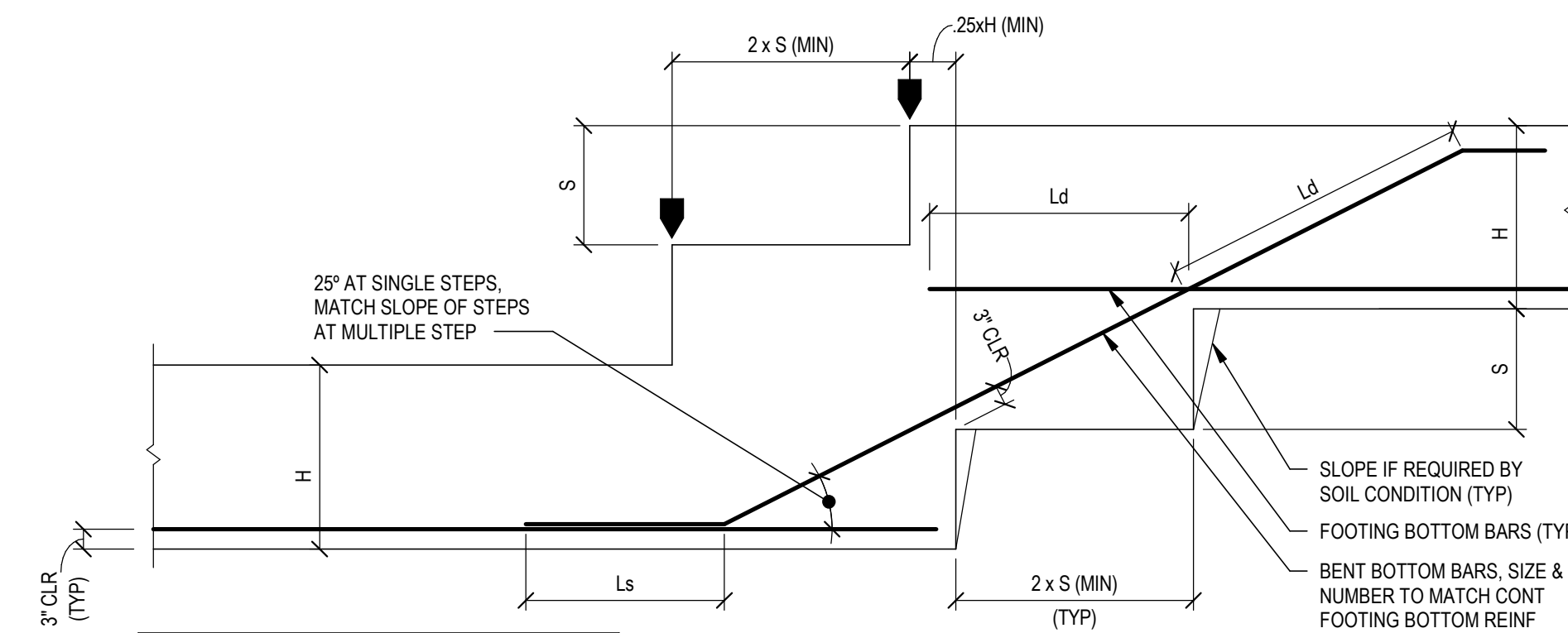
Note to Engineer/Detailer:  
• Doweled joints are recommended for slabs subject to hard-wheeled traffic or other heavy loads. Review dowel type with client. Edit as required.  
• Basis for detail is PNA "Diamond Dowel" & Greenstreak "Speed Plate".

**SLAB ON GRADE TYPICAL CONSTRUCTION JOINT**  
NTS



Note to Engineer/Detailer:  
• Doweled joints are recommended for slabs subject to hard-wheeled traffic or other heavy loads. Review dowel type with client. Edit as required.  
• Basis for detail is PNA "Diamond Dowel" & Greenstreak "Speed Plate".

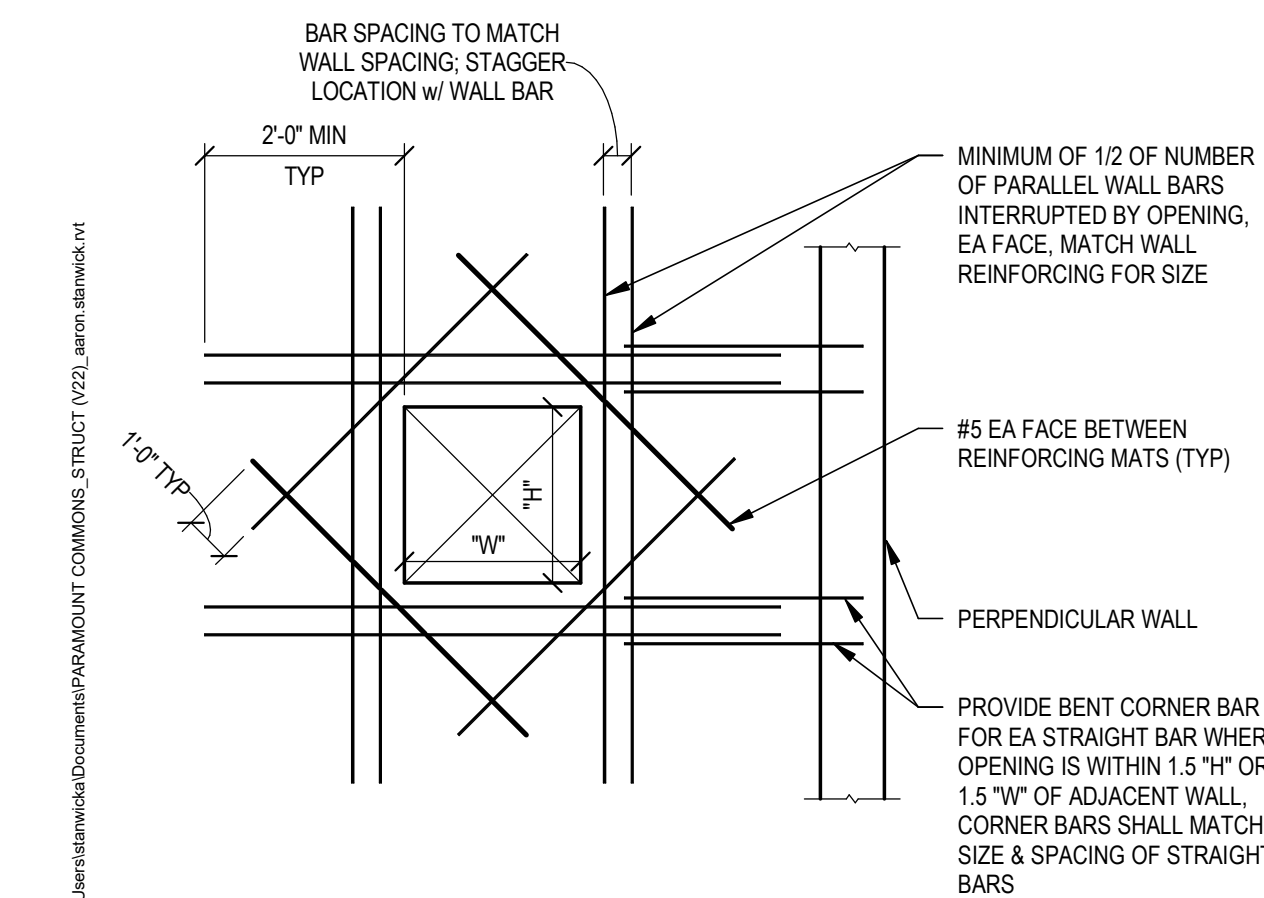
**SLAB ON GRADE TYPICAL CONSTRUCTION JOINT**  
NTS



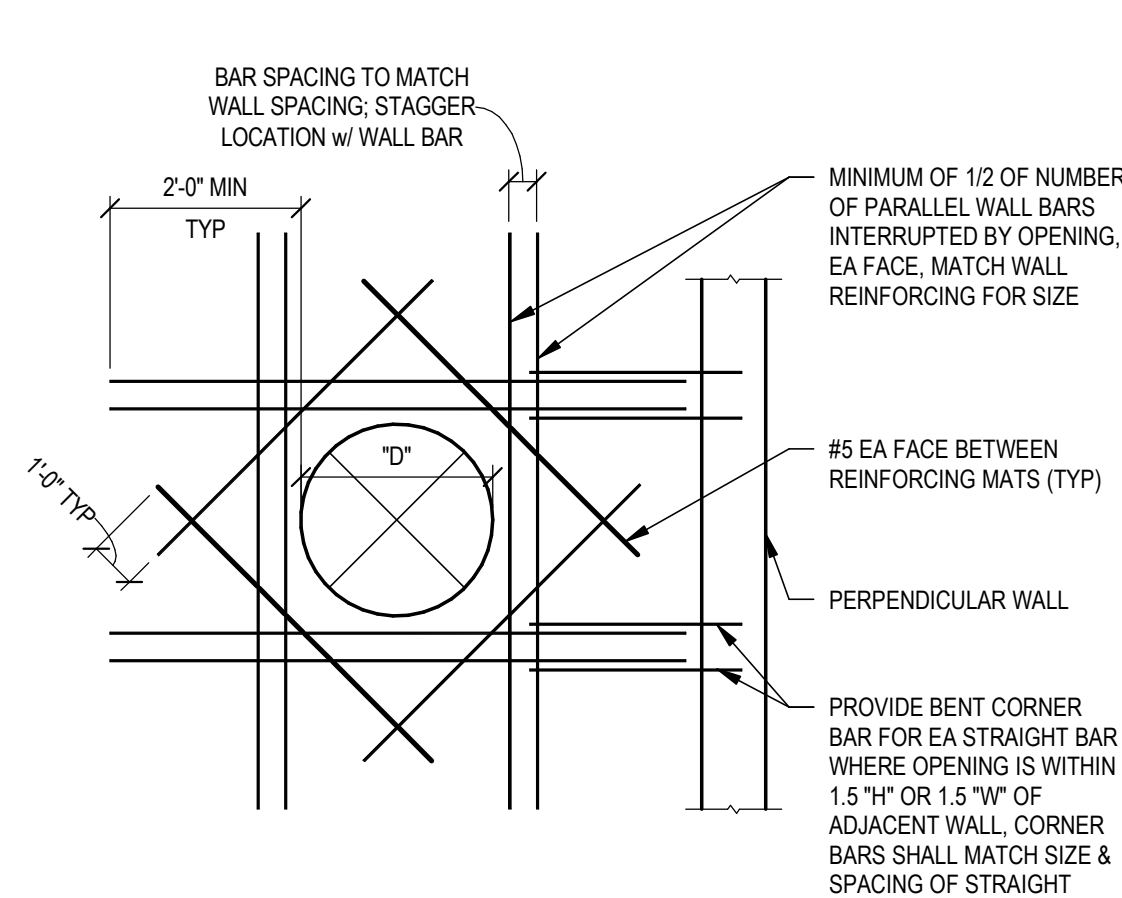
NOTES:  
1. SEE PLAN FOR FTG SIZE & REINF  
2. S = STEP IN FOOTING (TOP & BOTTOM), 2'-0" MAX  
H = DEPTH OF FOOTING

Note to Engineer/Detailer:  
• For use when strip footing is not expected to resist bending & the reinforcement is primarily for shrinkage crack control.

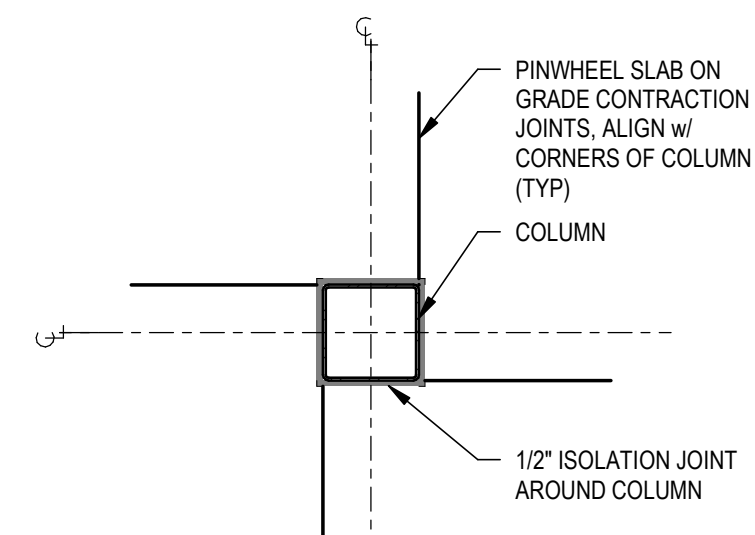
**TYPICAL STEP IN FOOTING**  
1/2" = 1'-0"



**ADDITIONAL REINFORCING AT RECTANGULAR OPENINGS**  
1/4" = 1'-0"



**ADDITIONAL REINFORCING AT ROUND OPENINGS**  
1/4" = 1'-0"



**TYPICAL PINWHEEL ISOLATION JOINT**  
NTS

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNAT OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
NO DATE DESCRIPTION

PROJECT NUMBER:  
**2312.95**

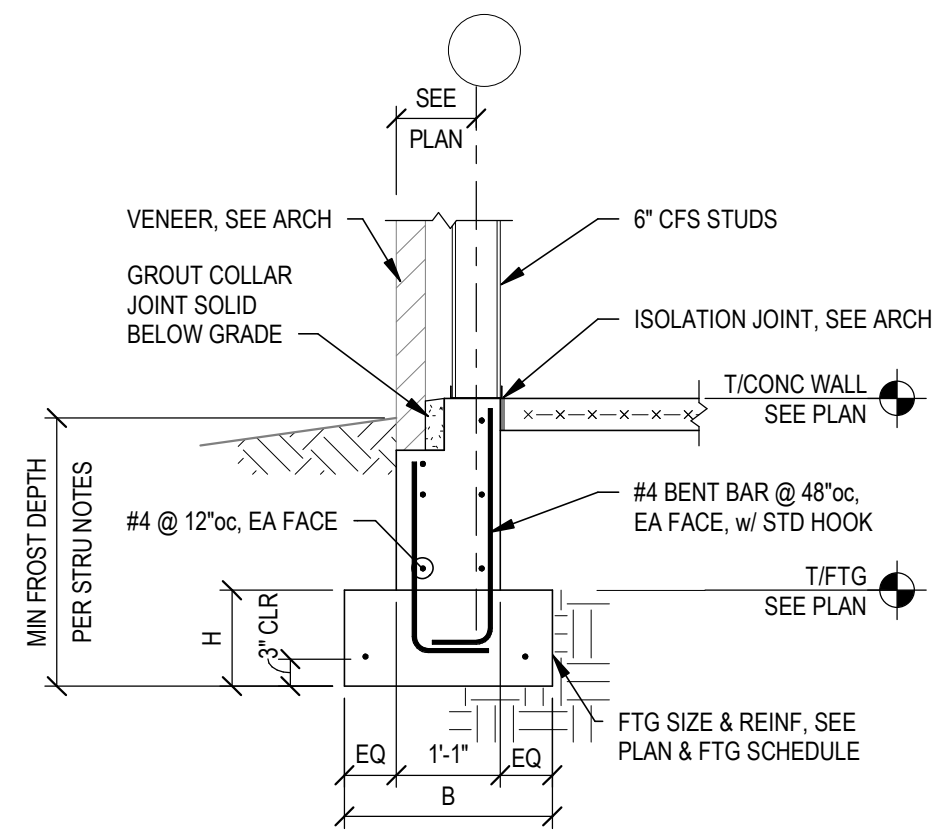
SHEET NAME:  
**TYPICAL FOUNDATION DETAILS & SECTIONS**

DATE:  
**Issue Date**

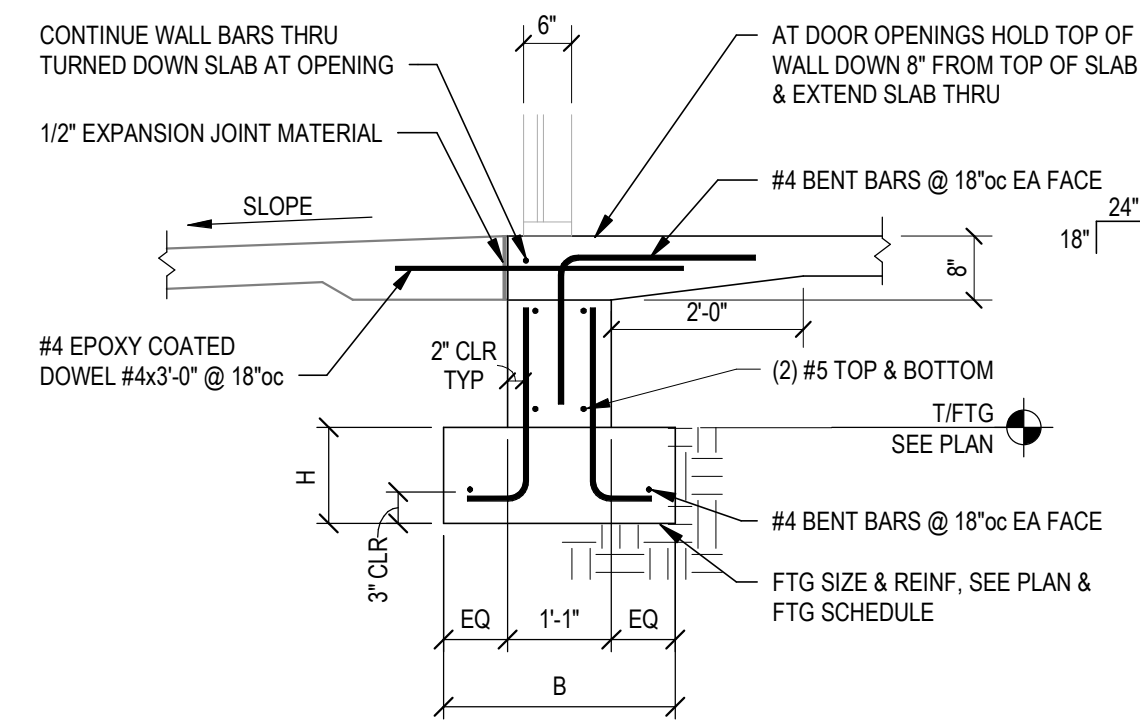
SHEET:

**S201**

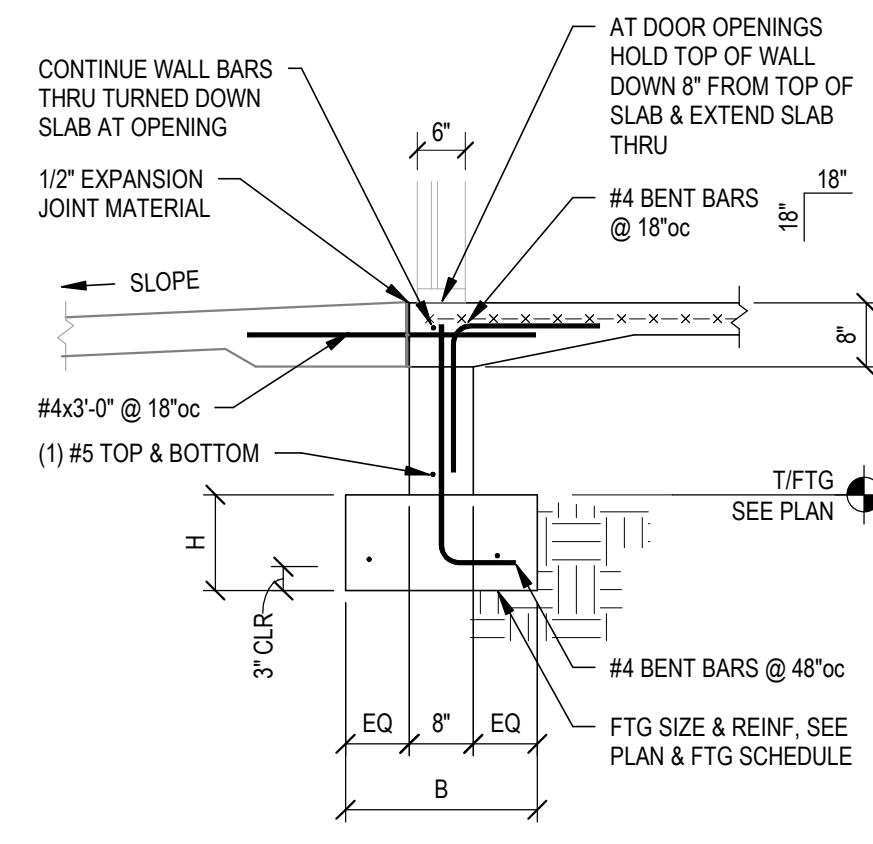
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



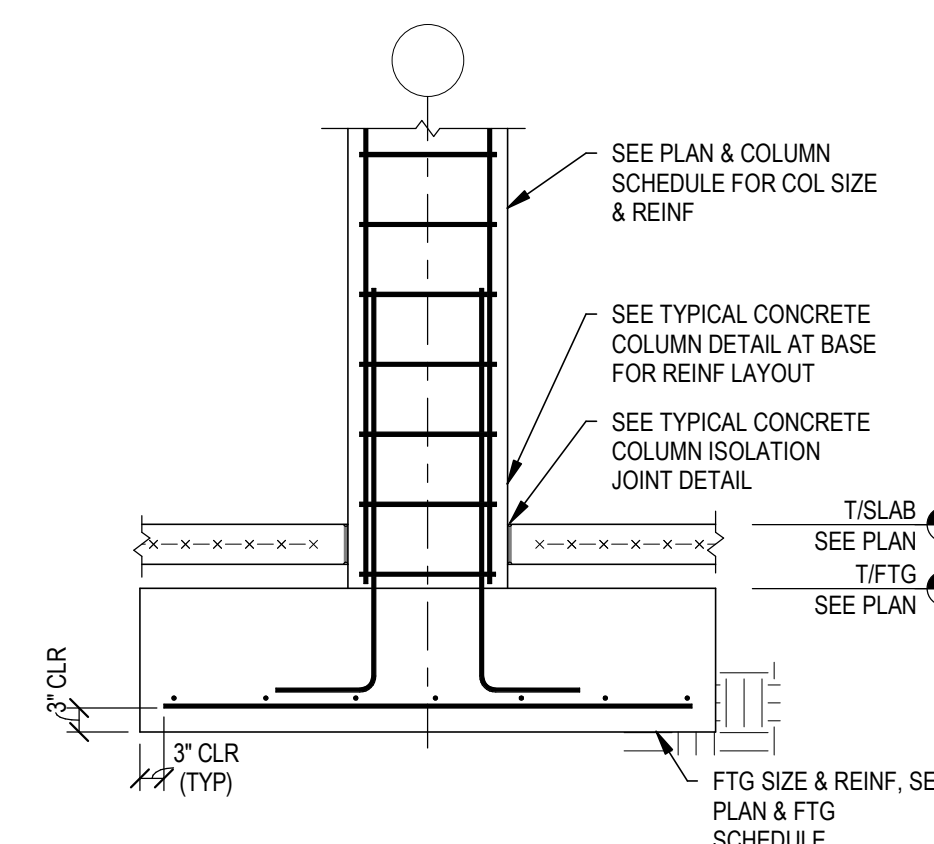
SECTION 1  
1/2" = 1'-0" S211



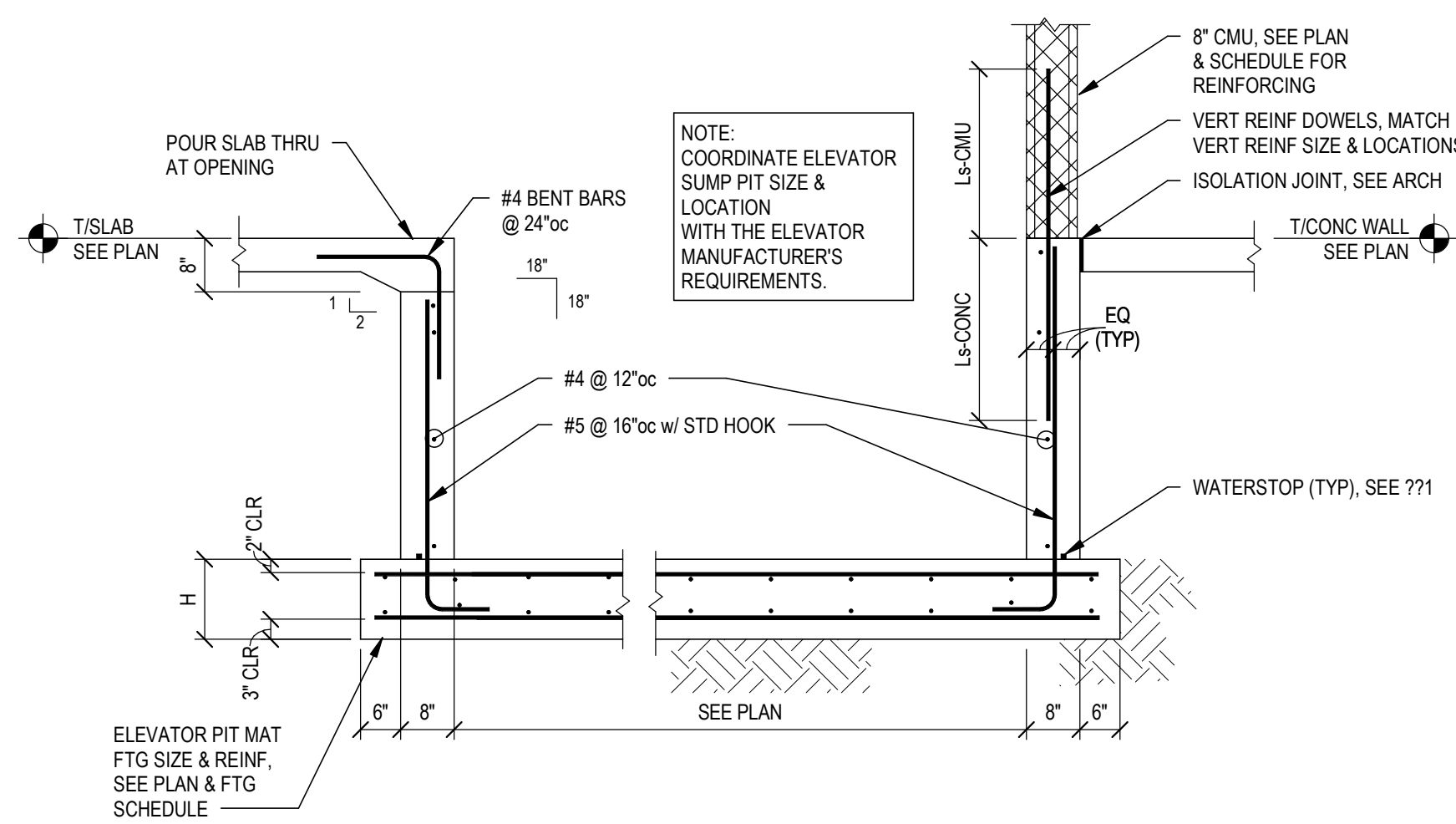
SECTION 2  
1/2" = 1'-0" S211



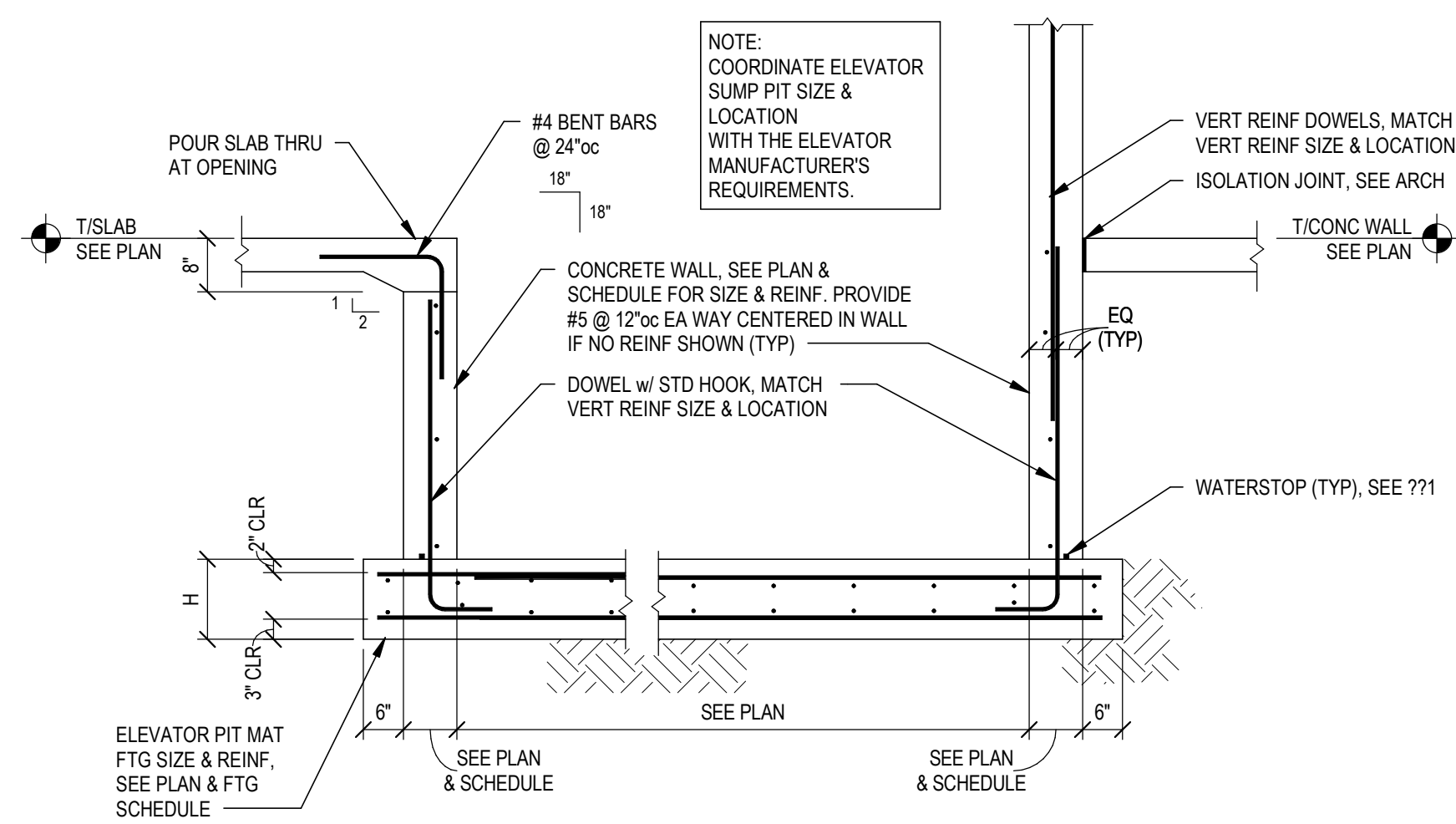
SECTION 3  
1/2" = 1'-0" S211



SECTION 4  
1/2" = 1'-0" S211



SECTION 5  
1/2" = 1'-0" S211



SECTION 6  
1/2" = 1'-0" S211

Notes to Engineer/Detailer:

- Dimension mat on foundation plan and call out reinforcement in schedule. Typical mat thickness = 12". Typical mat size = 6" wider than shaft. Typical reinforcement = #5 @ 12" ea way, top and bot, however one layer of reinf, centered may be sufficient for a more economical design.
- ??1: Coordinate where waterstop specs are located on project (specifications, general notes, arch, etc. User could also leave out the "see..." but expect an RFI from the contractor.
- The stem wall reinforcement as shown is adequate for pit depths up to 6 feet.

Notes to Engineer/Detailer:

- Dimension mat on foundation plan and call out reinforcement in schedule. Typical mat thickness = 12". Typical mat size = 6" wider than shaft. Typical reinforcement = #5 @ 12" ea way, top and bot, however one layer of reinf, centered may be sufficient for a more economical design.
- ??1: Coordinate where waterstop specs are located on project (specifications, general notes, arch, etc. User could also leave out the "see..." but expect an RFI from the contractor.
- The stem wall reinforcement as shown is adequate for pit depths up to 6 feet.

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
NO DATE DESCRIPTION

PROJECT NUMBER:  
**2312.95**

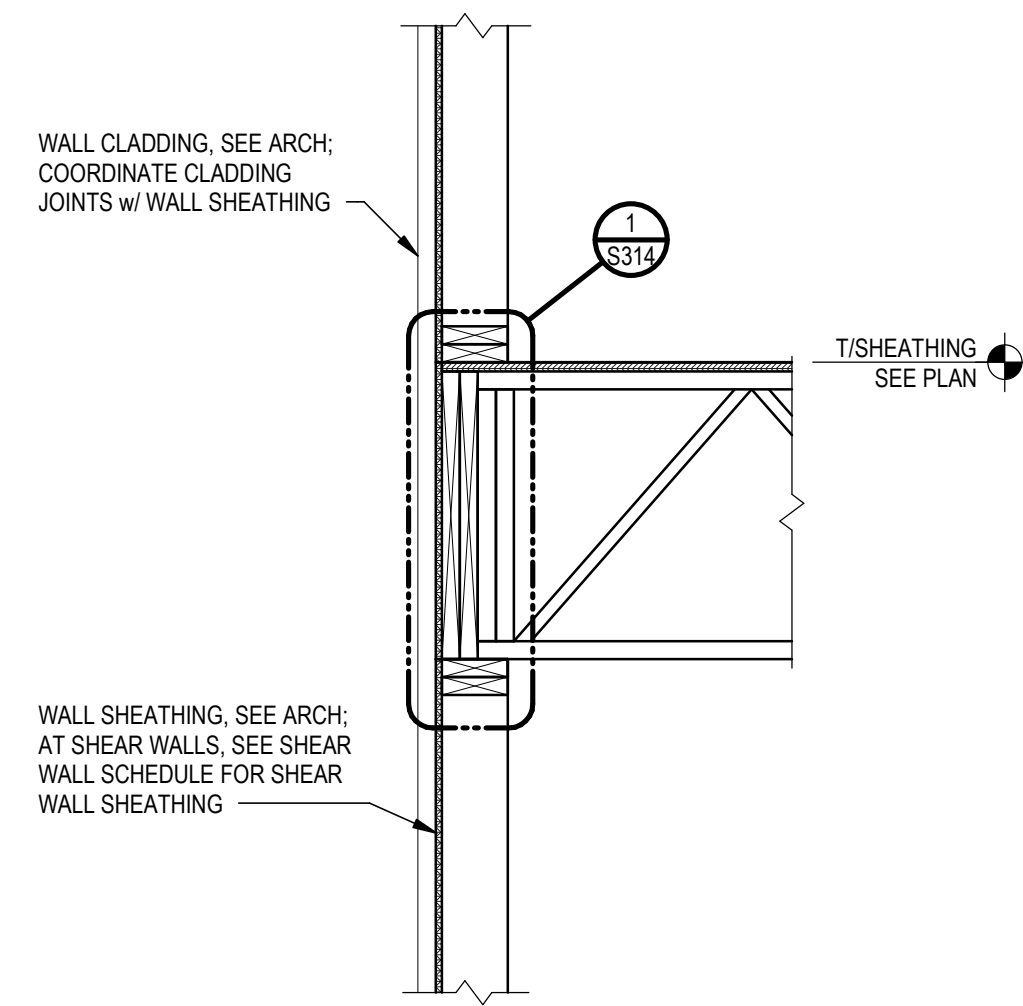
SHEET NAME:  
**FOUNDATION DETAILS & SECTIONS**

DATE:  
**Issue Date**

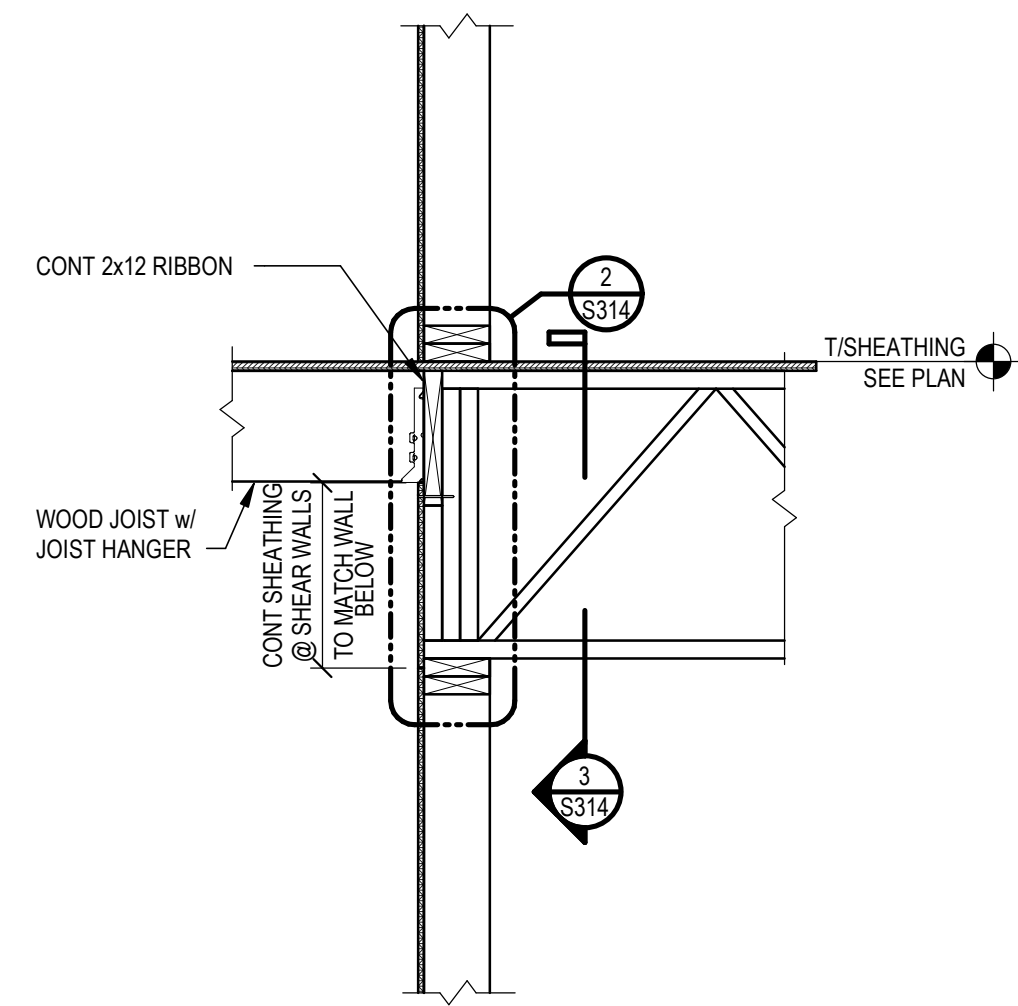
SHEET:  
**S211**



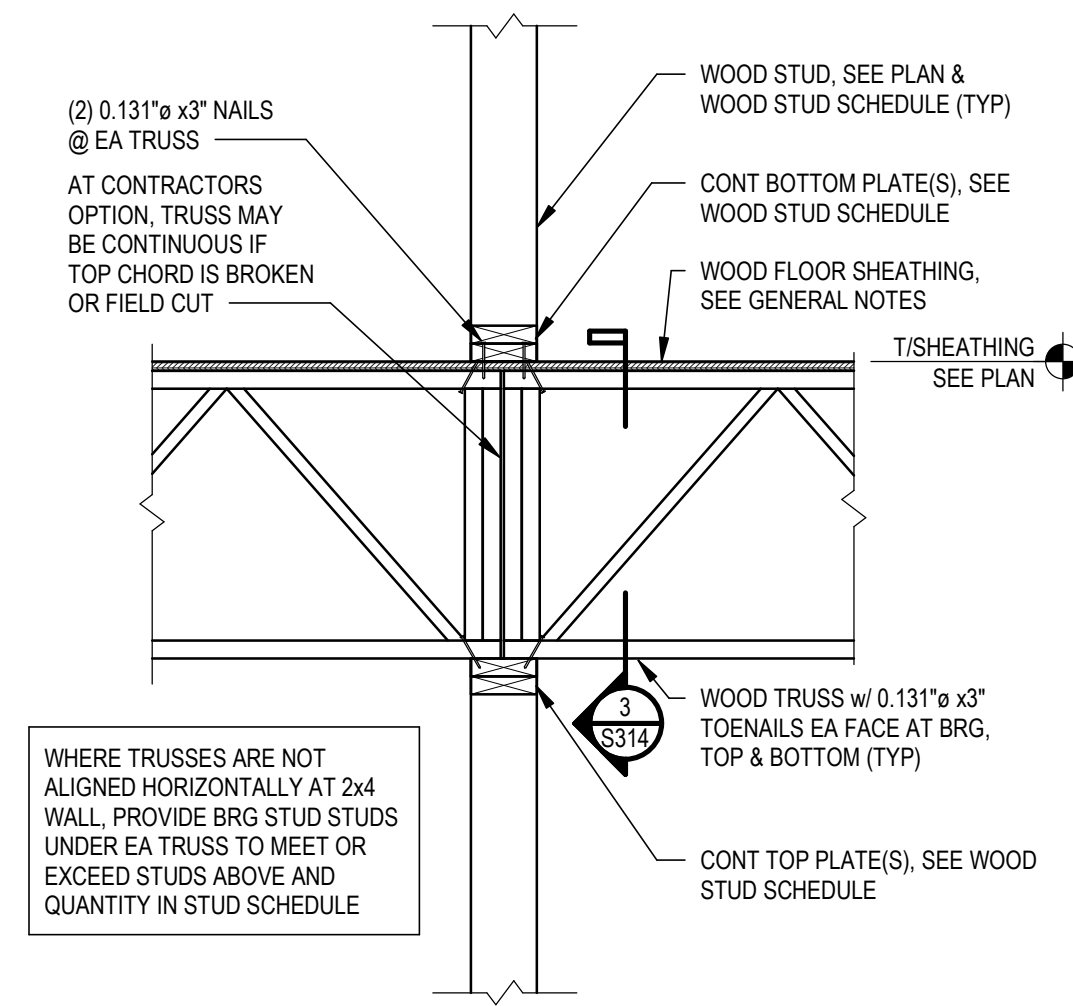
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



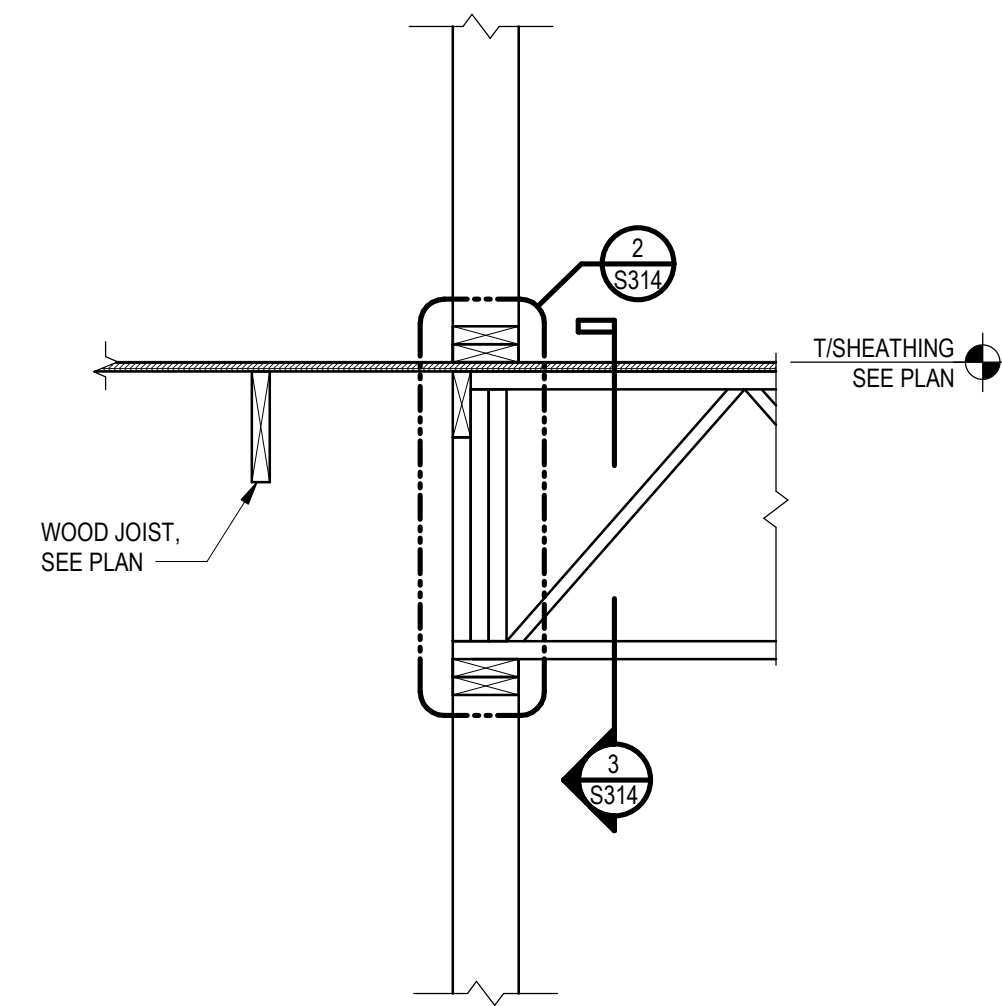
SECTION 1  
NTS S311



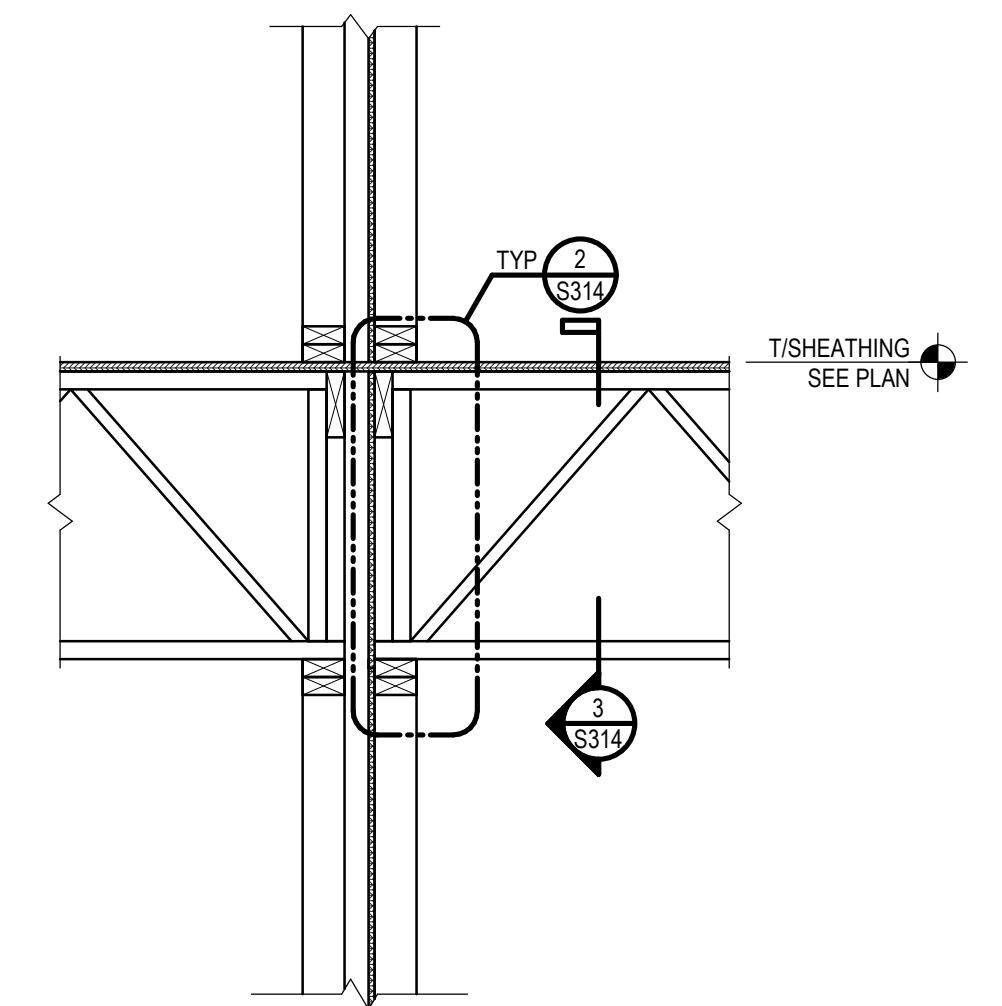
SECTION 2  
NTS S311



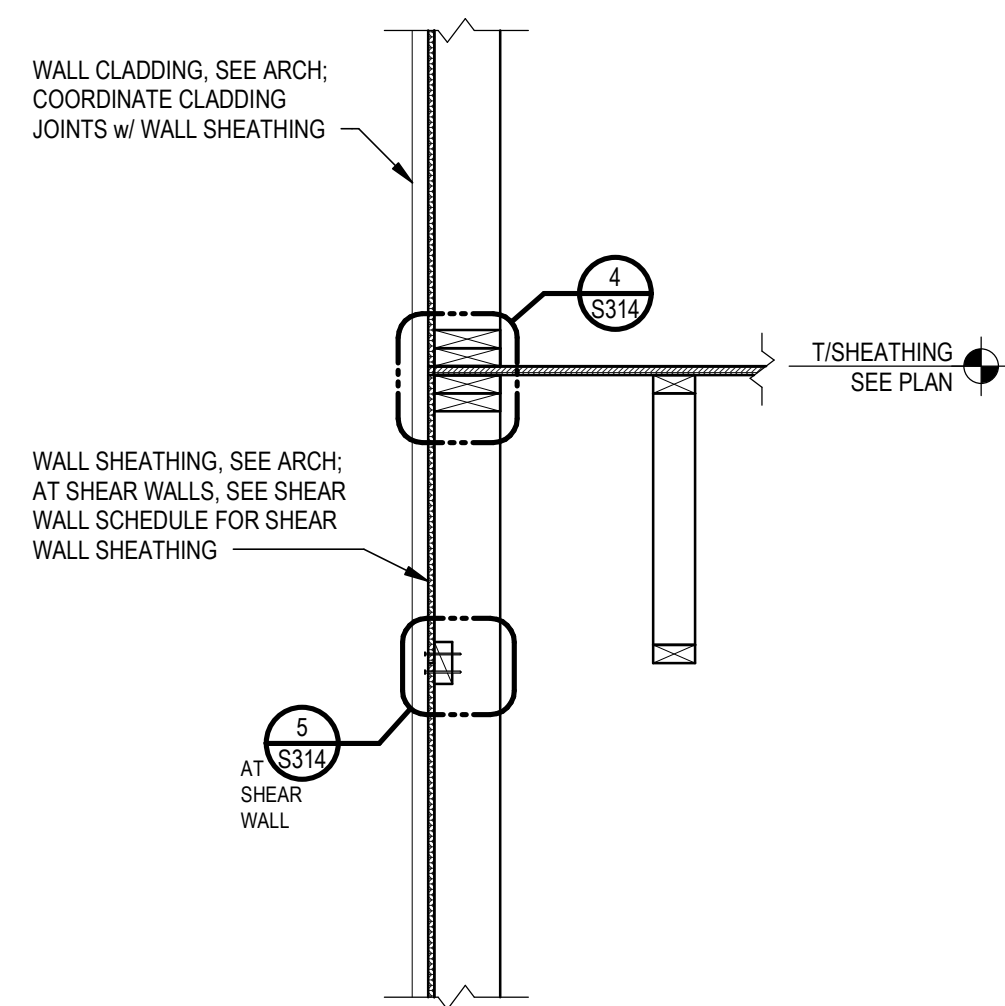
SECTION 3  
NTS S311



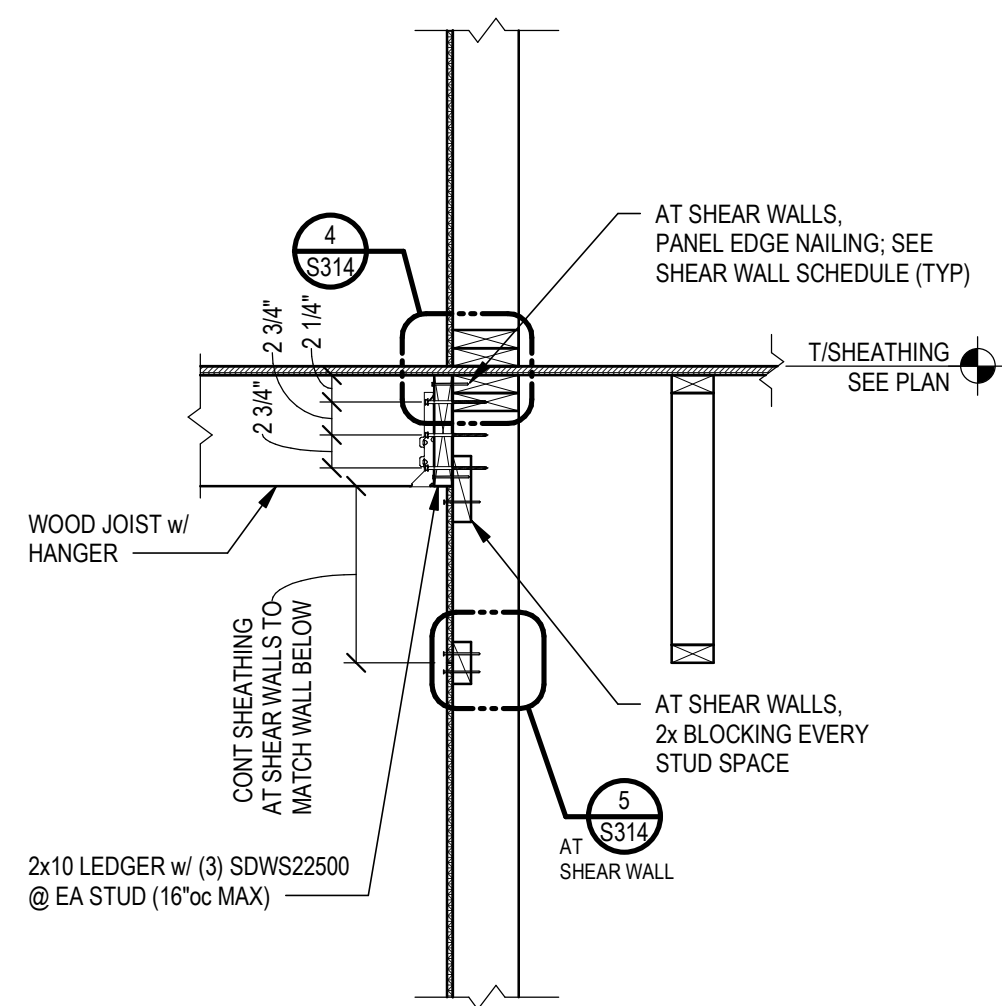
SECTION 4  
NTS S311



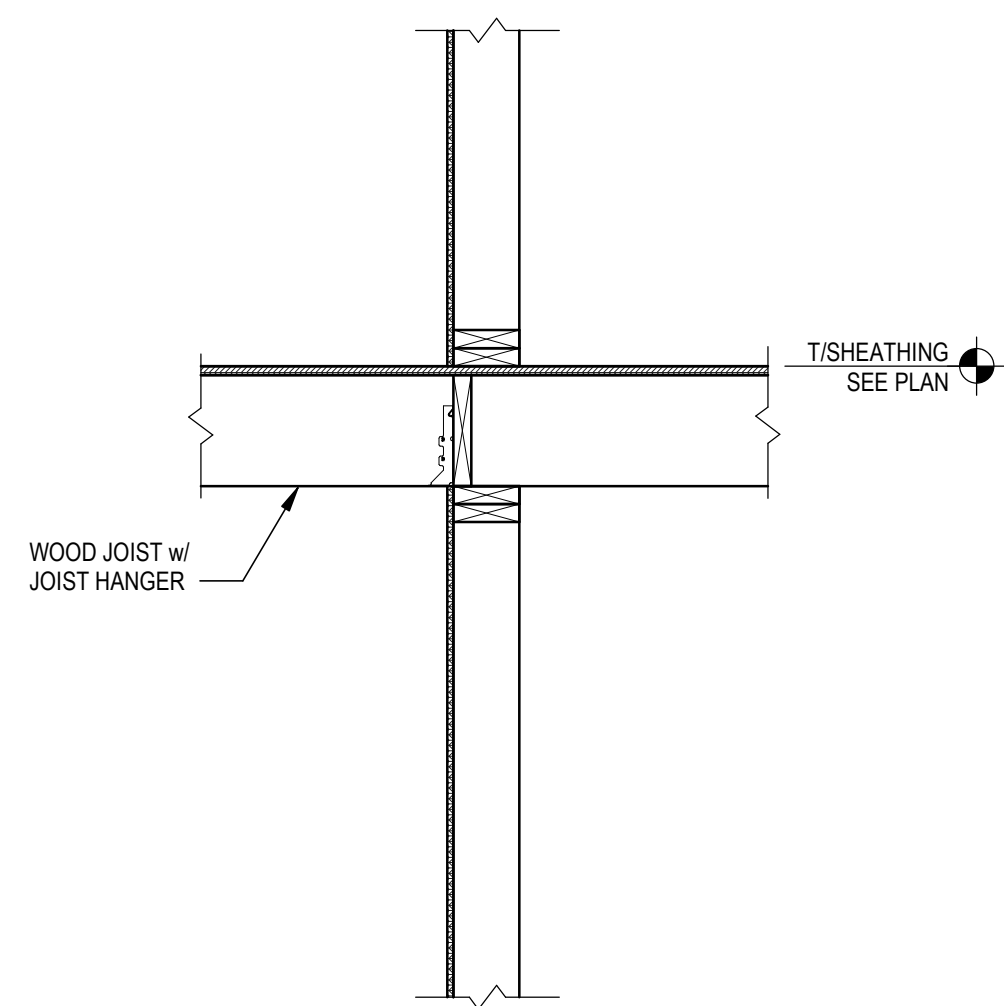
SECTION 5  
NTS S311



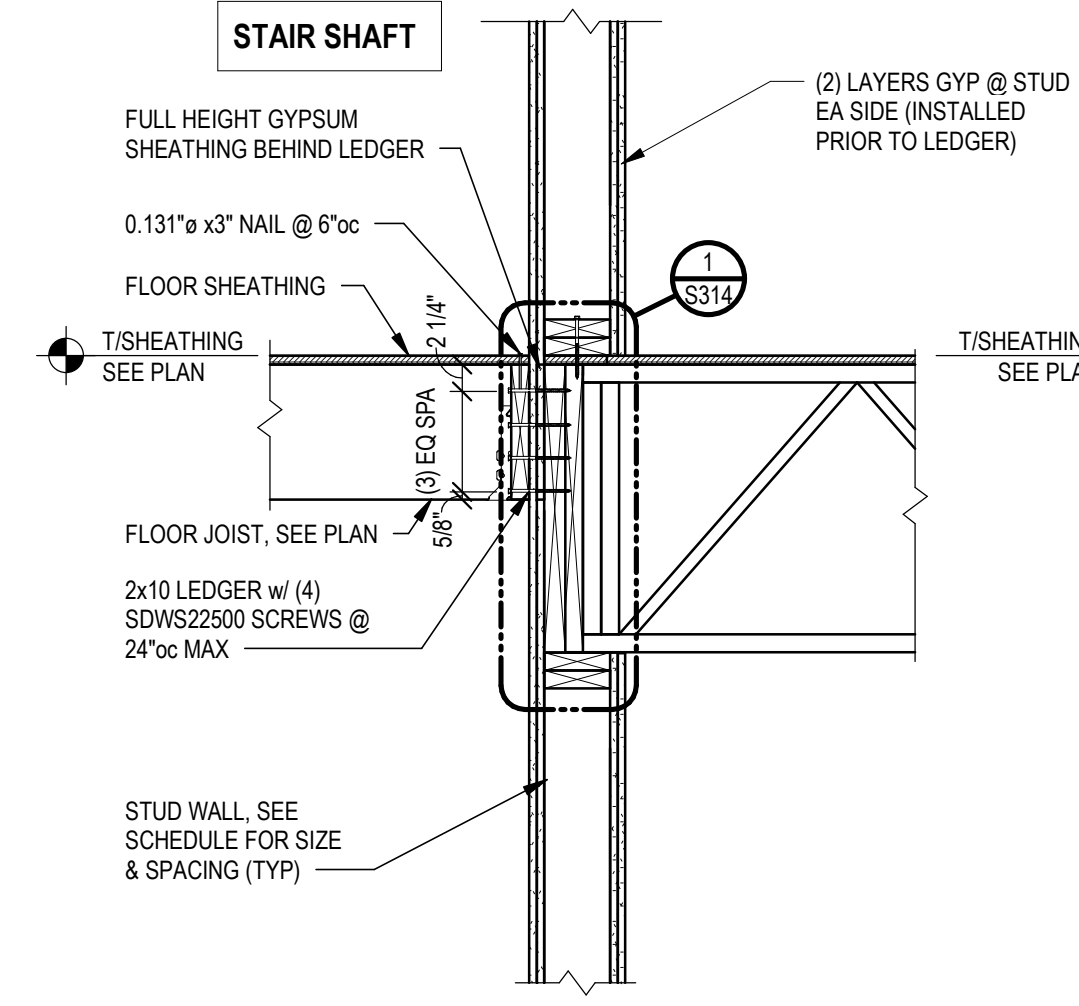
SECTION 6  
NTS S311



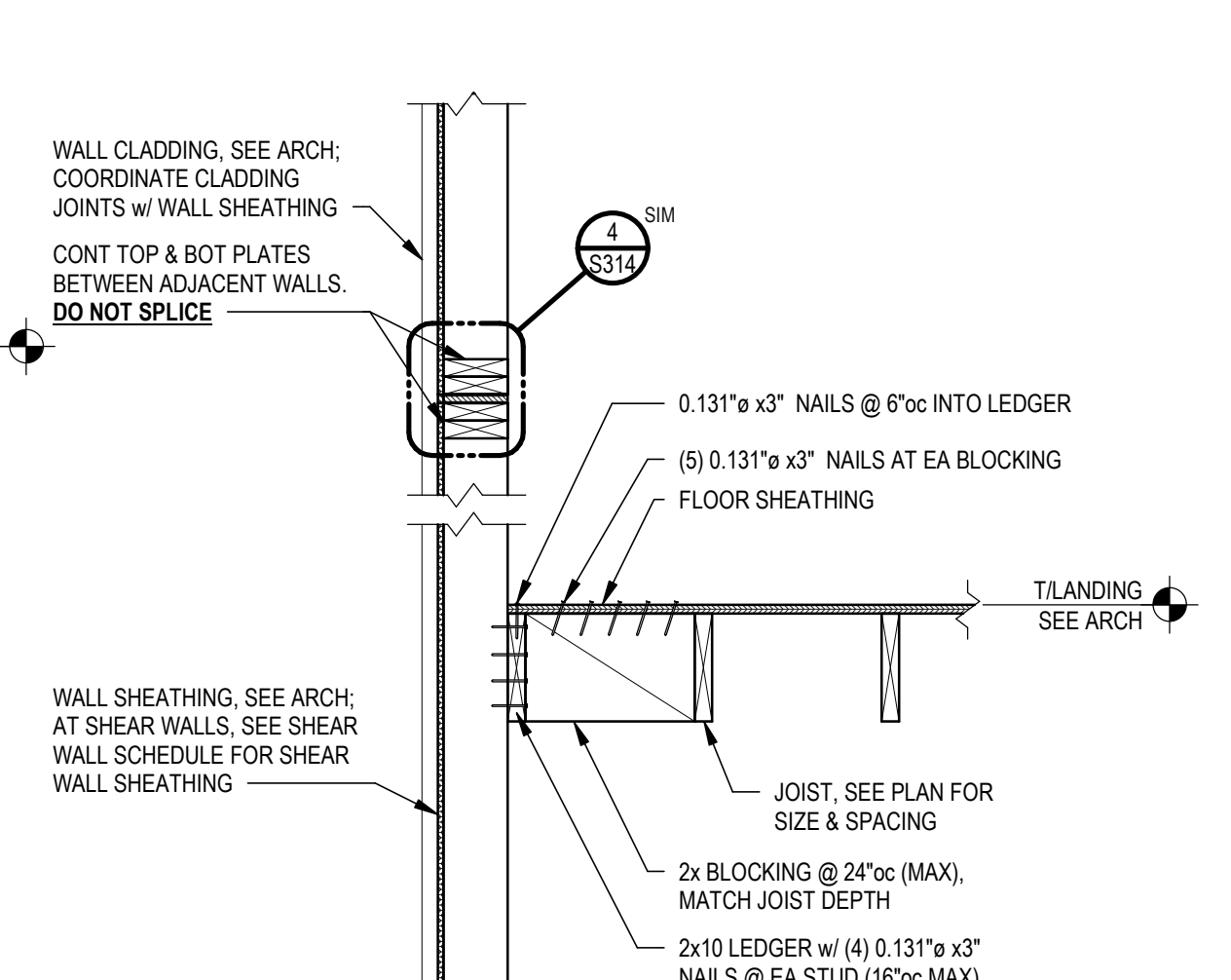
SECTION 7  
3/4" = 1'-0" S311



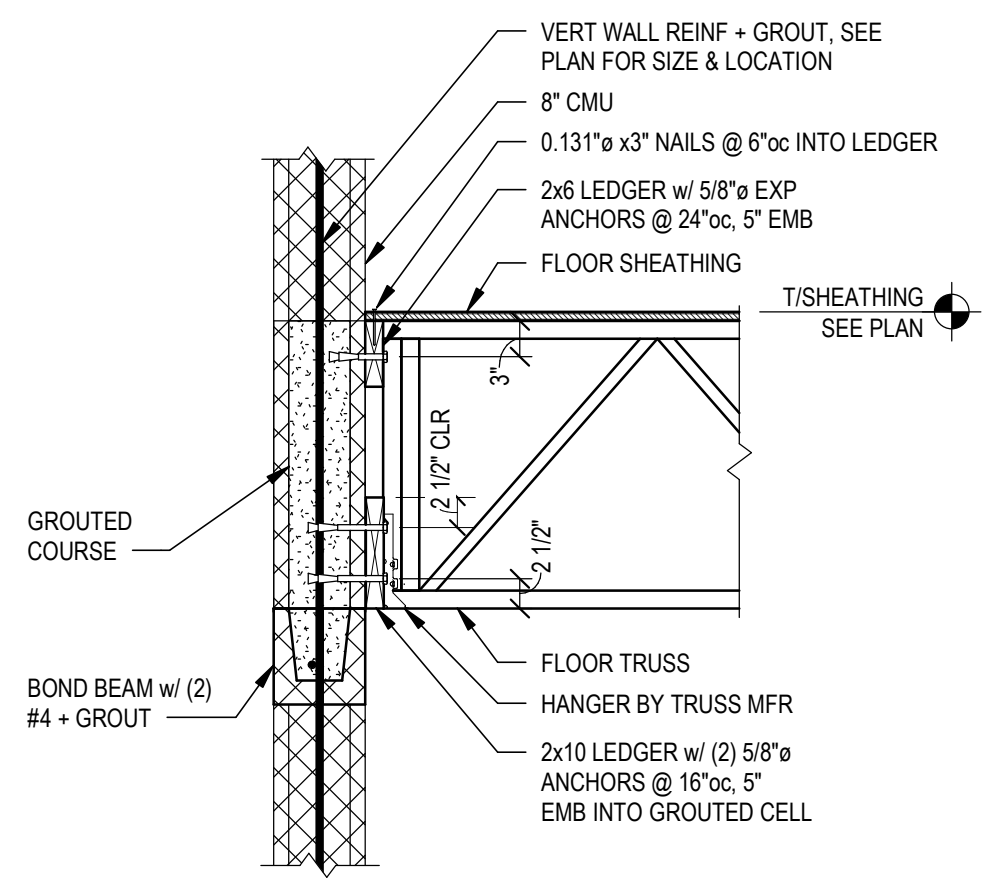
SECTION 8  
NTS S311



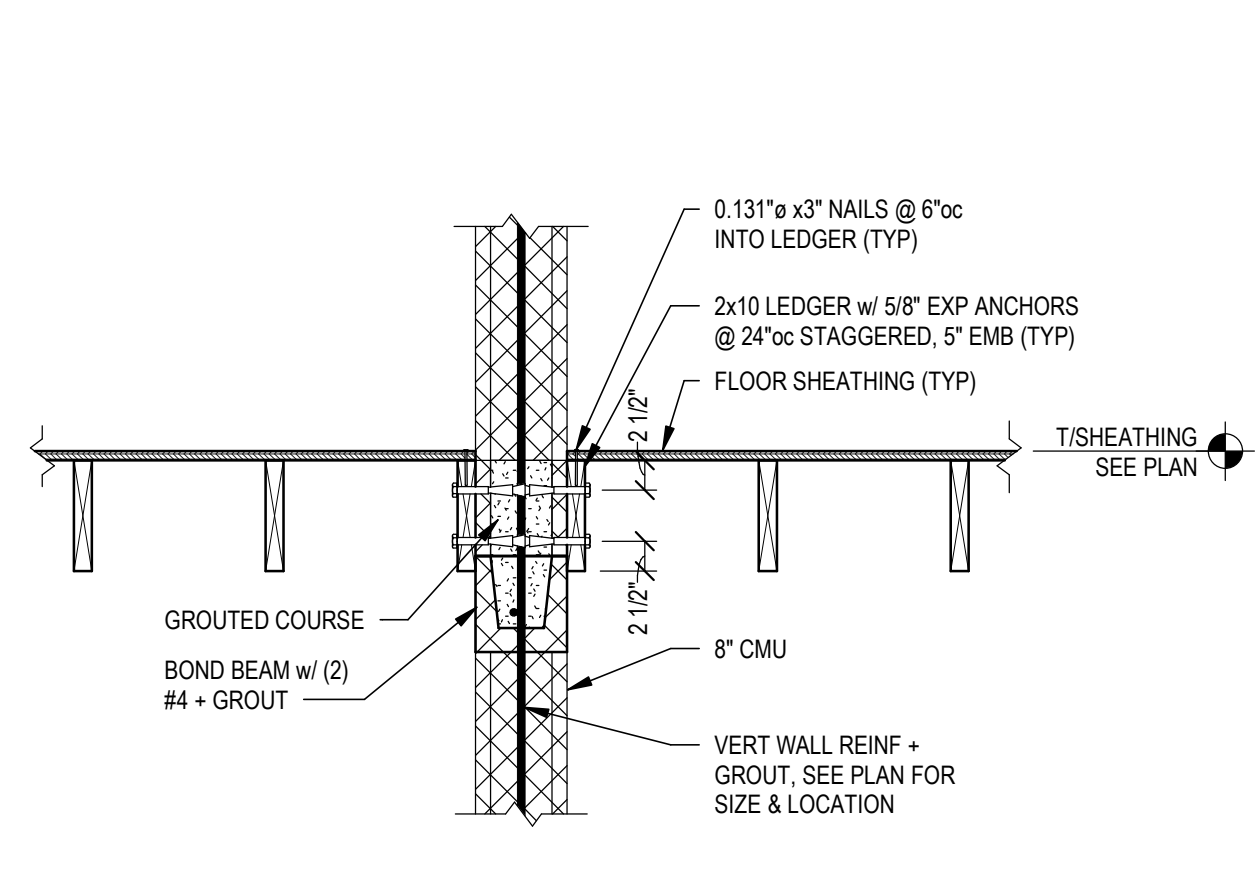
SECTION 9  
NTS S311



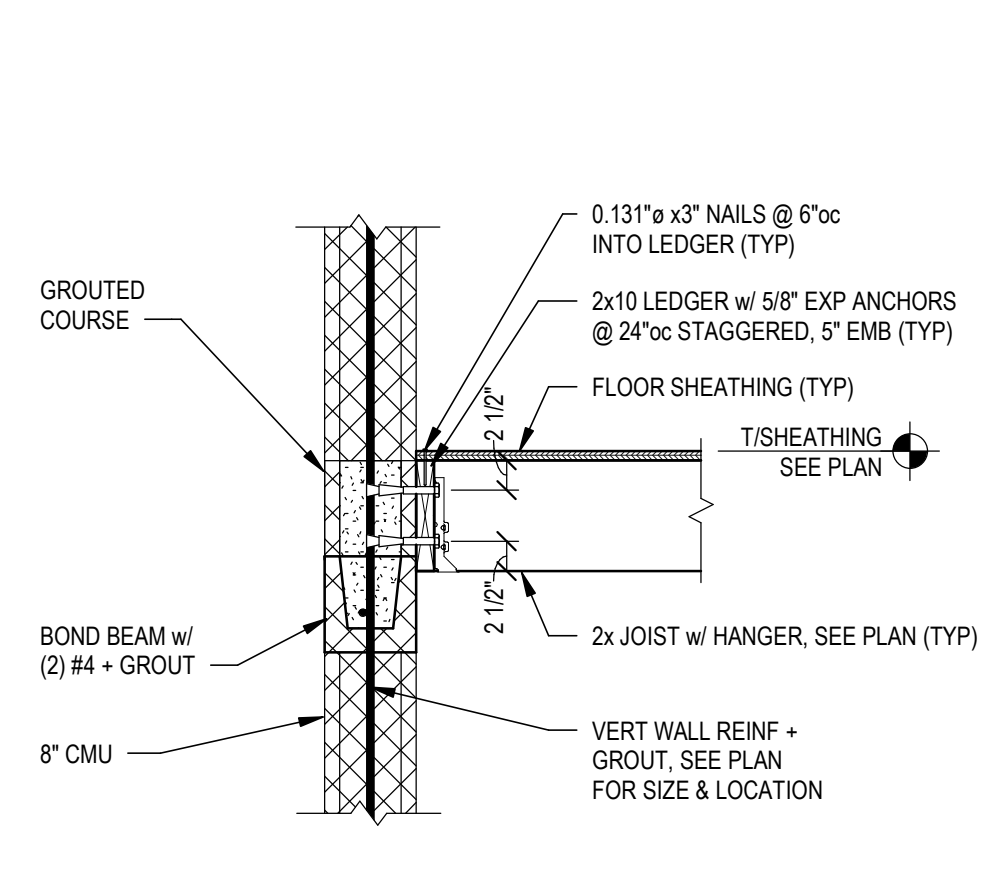
SECTION 10  
NTS S311



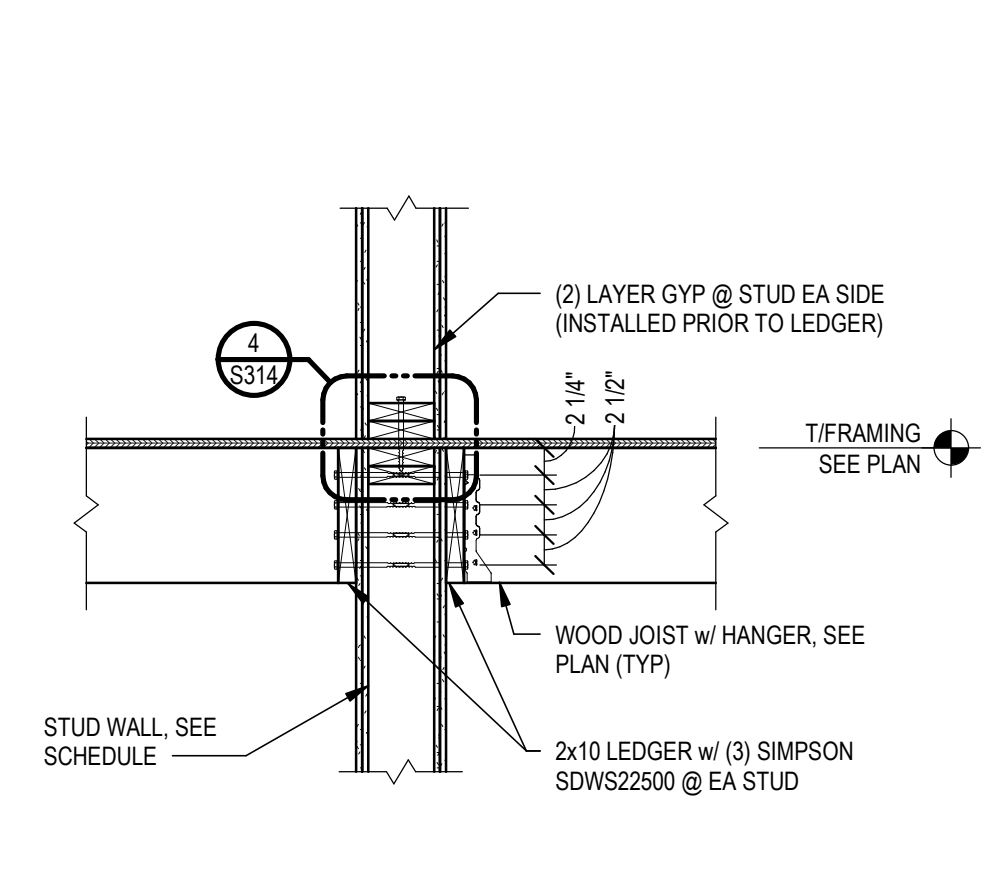
SECTION 11  
3/4" = 1'-0" S311



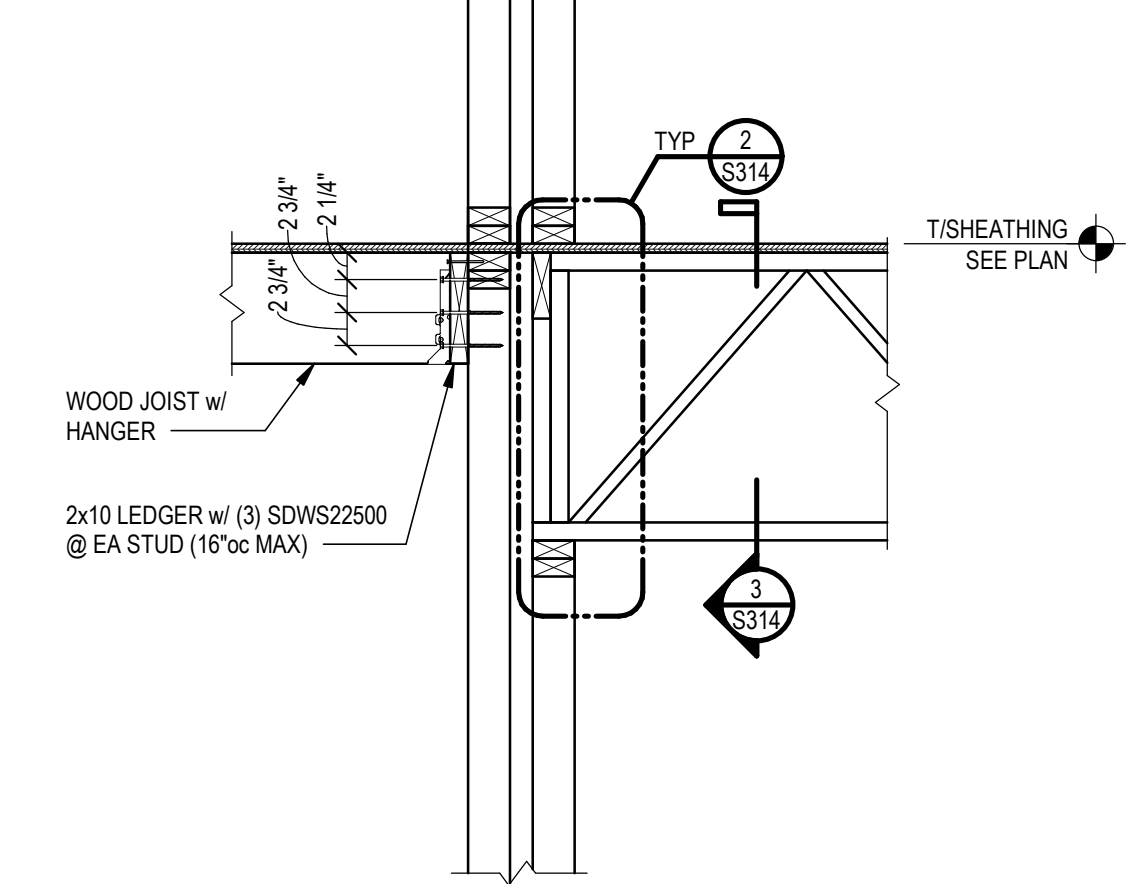
SECTION 12  
3/4" = 1'-0" S311



SECTION 13  
3/4" = 1'-0" S311



SECTION 14  
3/4" = 1'-0" S311



SECTION 15  
NTS S311

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**WOOD FRAMING DETAILS & SECTIONS**

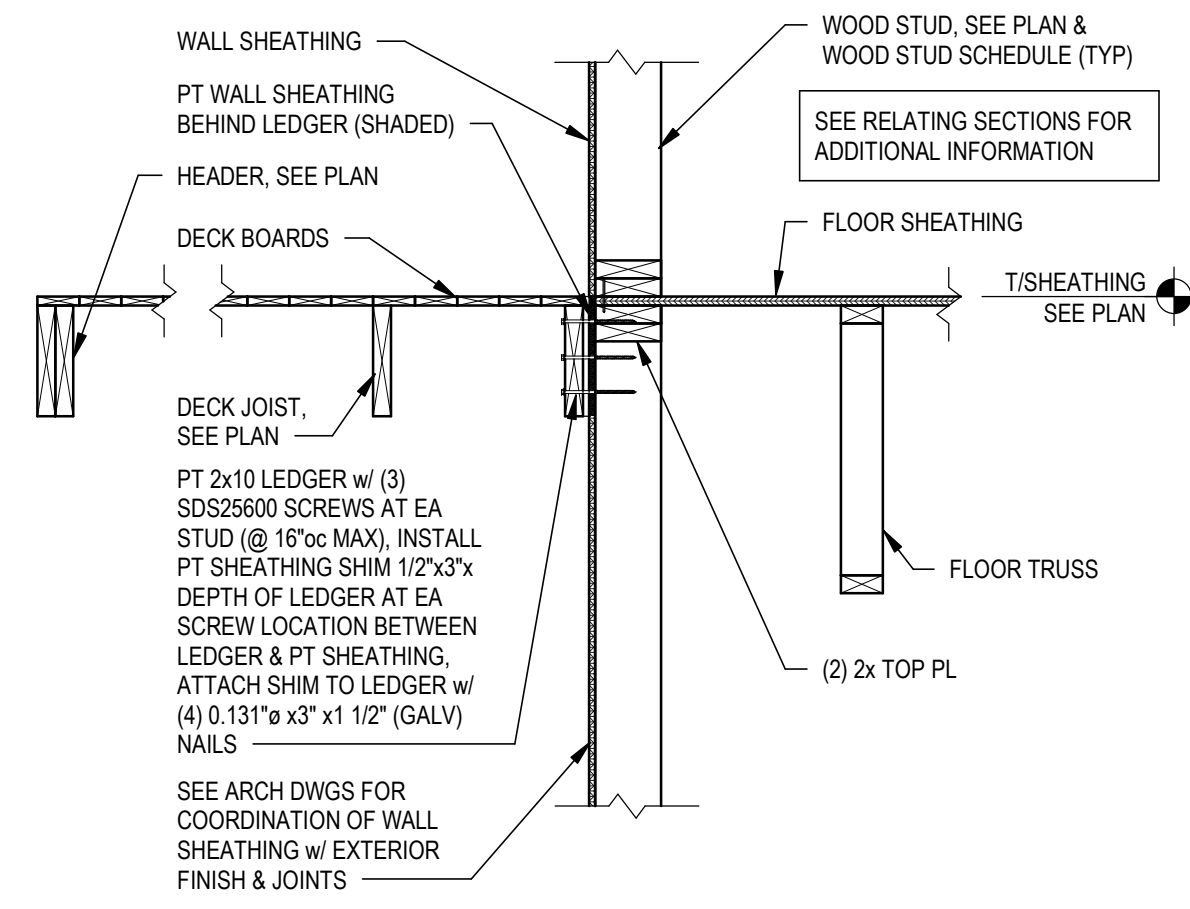
DATE:  
**Issue Date**

SHEET:  
**S311**

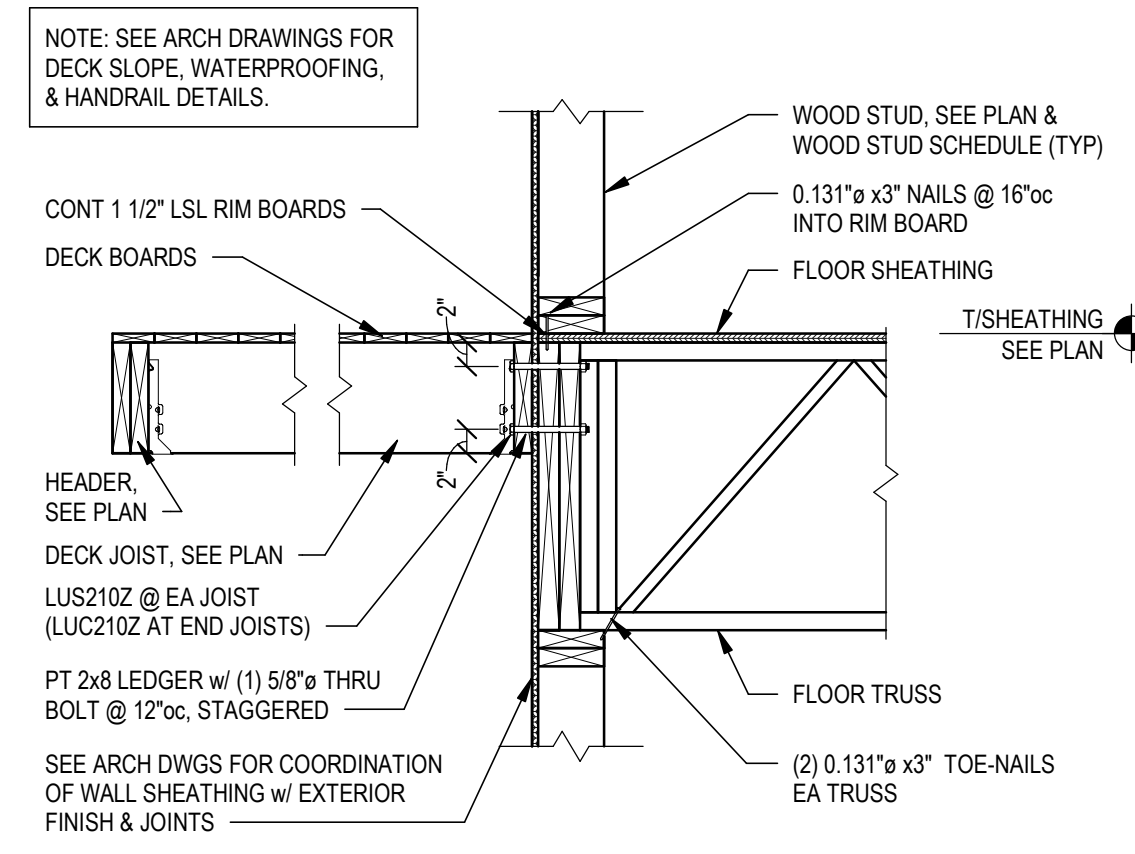
COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



SECTION 1  
3/4" = 1'-0" S312



SECTION 2  
3/4" = 1'-0" S312

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

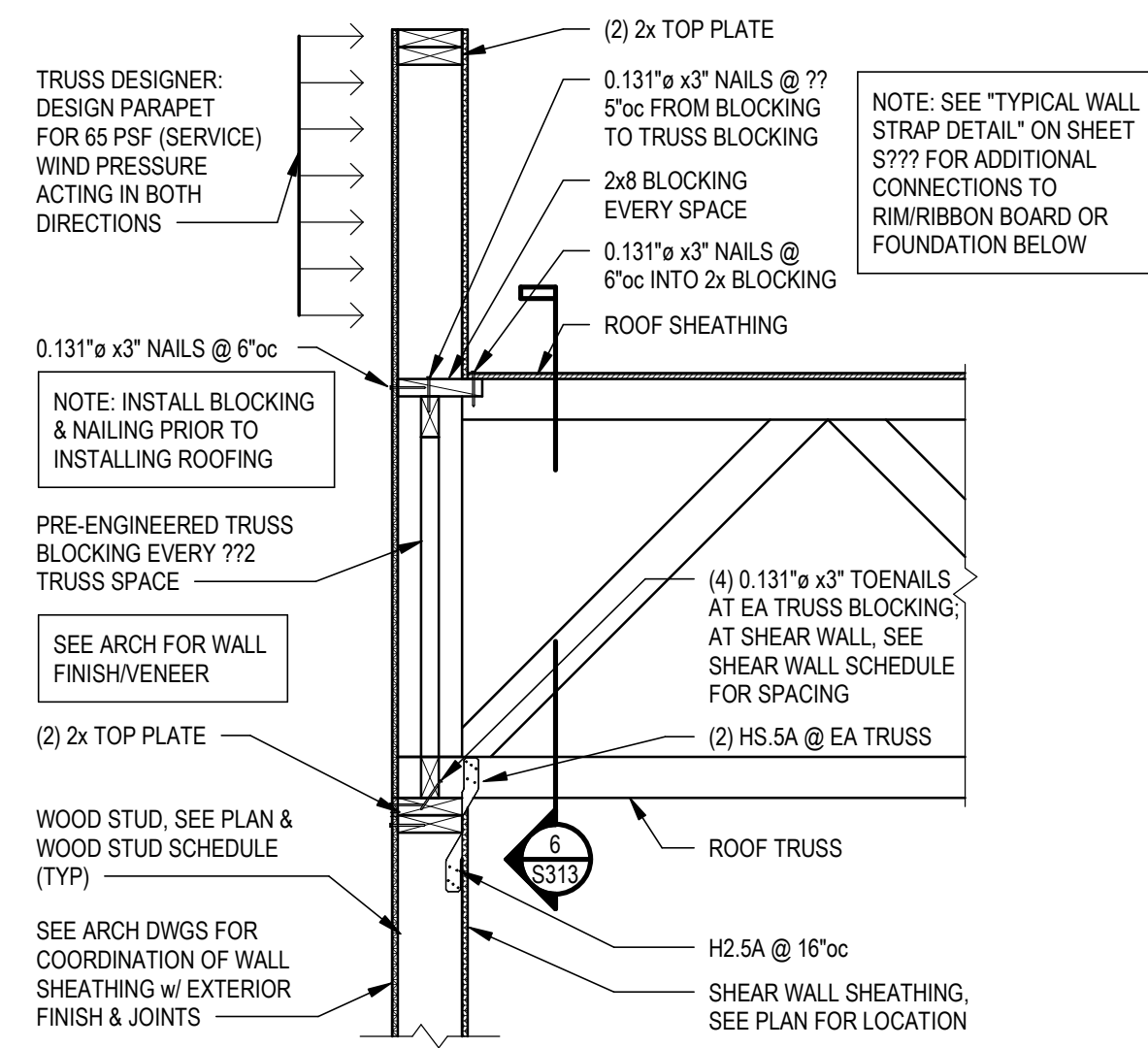
PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**WOOD FRAMING DETAILS & SECTIONS**

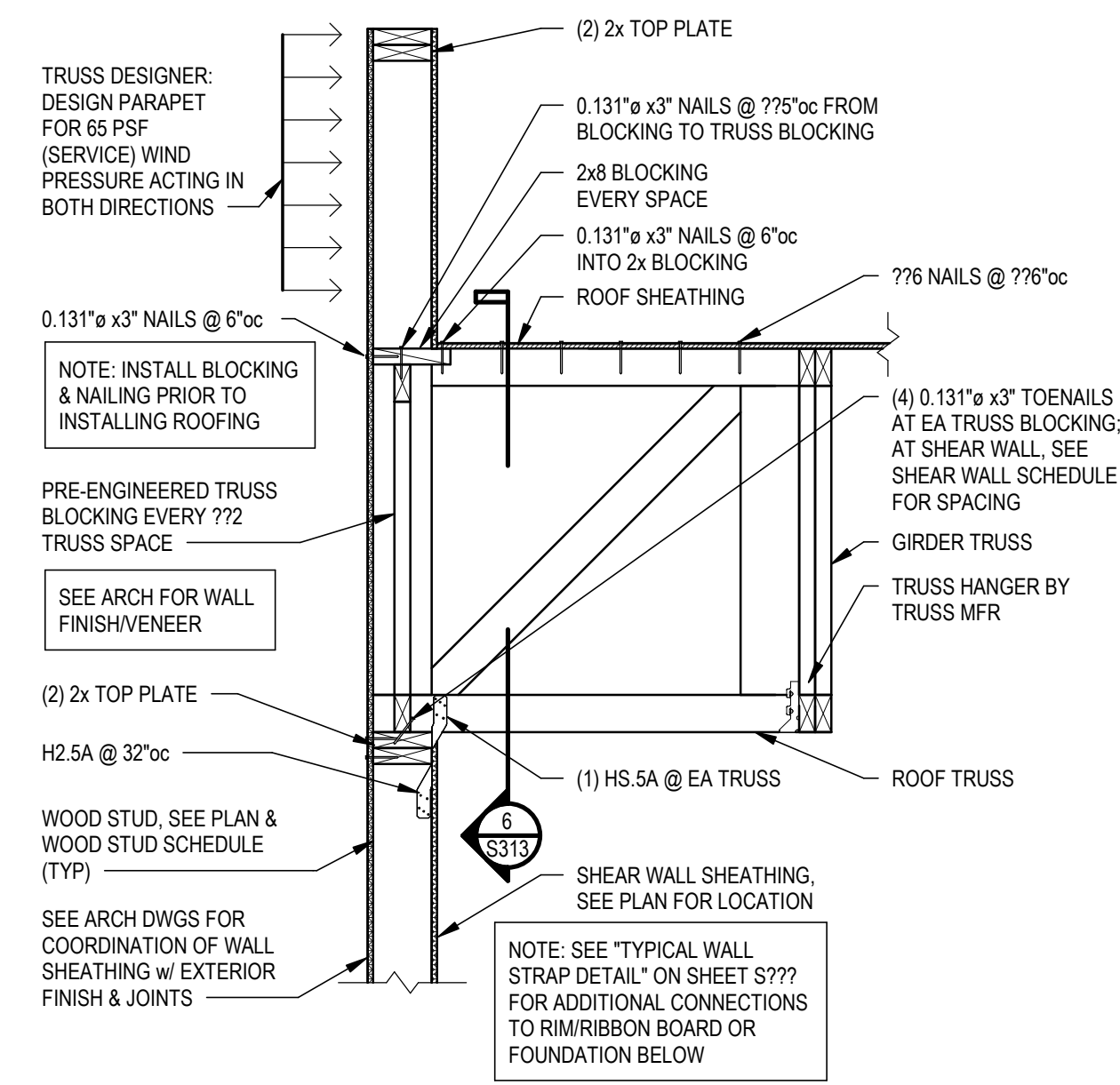
DATE:  
**Issue Date**

SHEET:  
**S312**

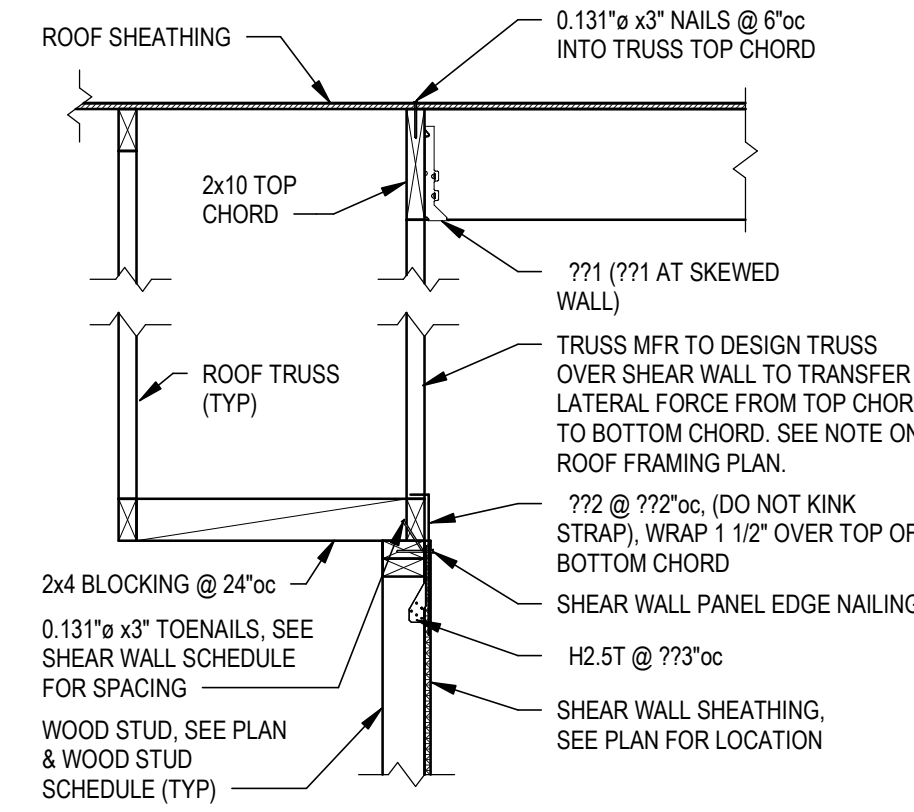
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



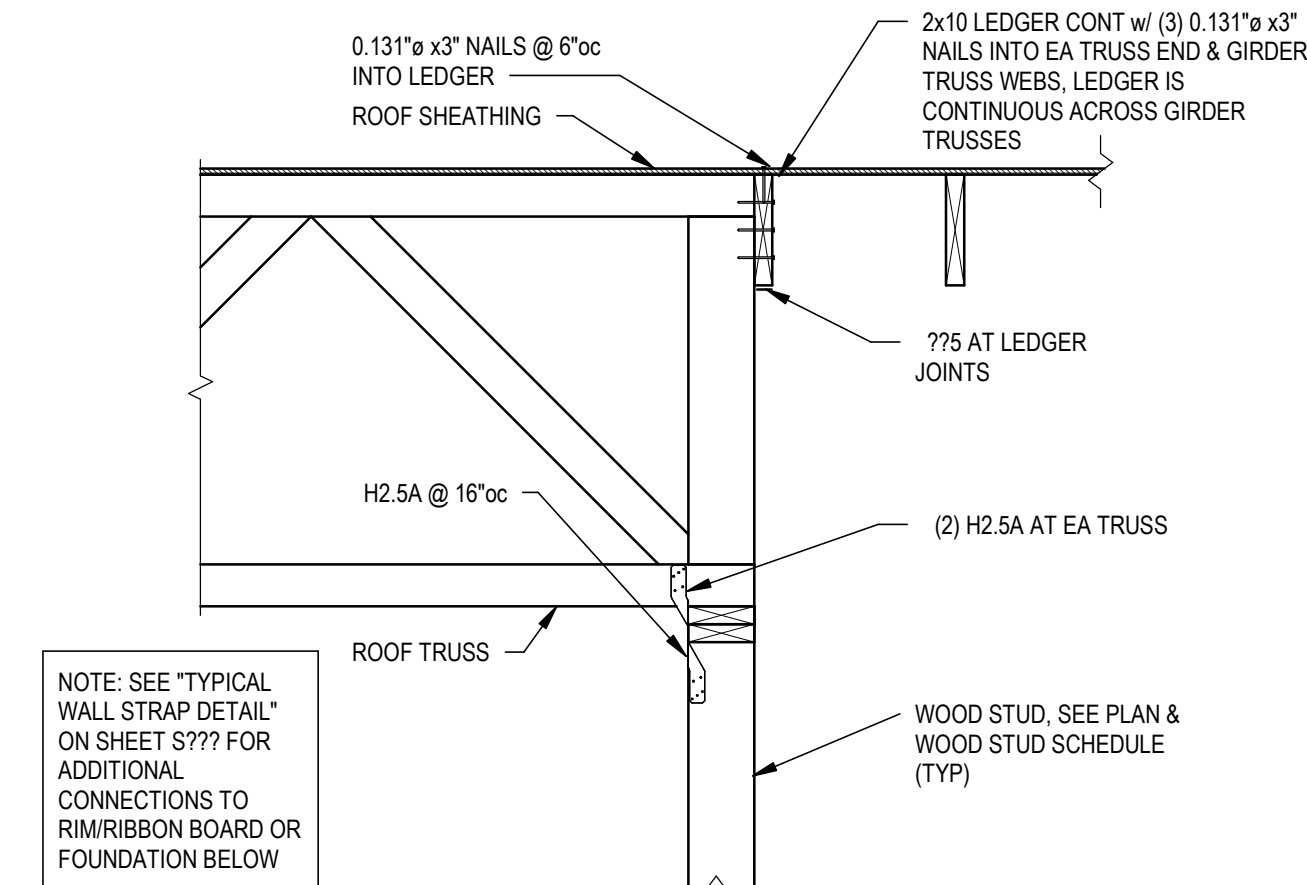
SECTION 1  
3/4" = 1'-0" S313



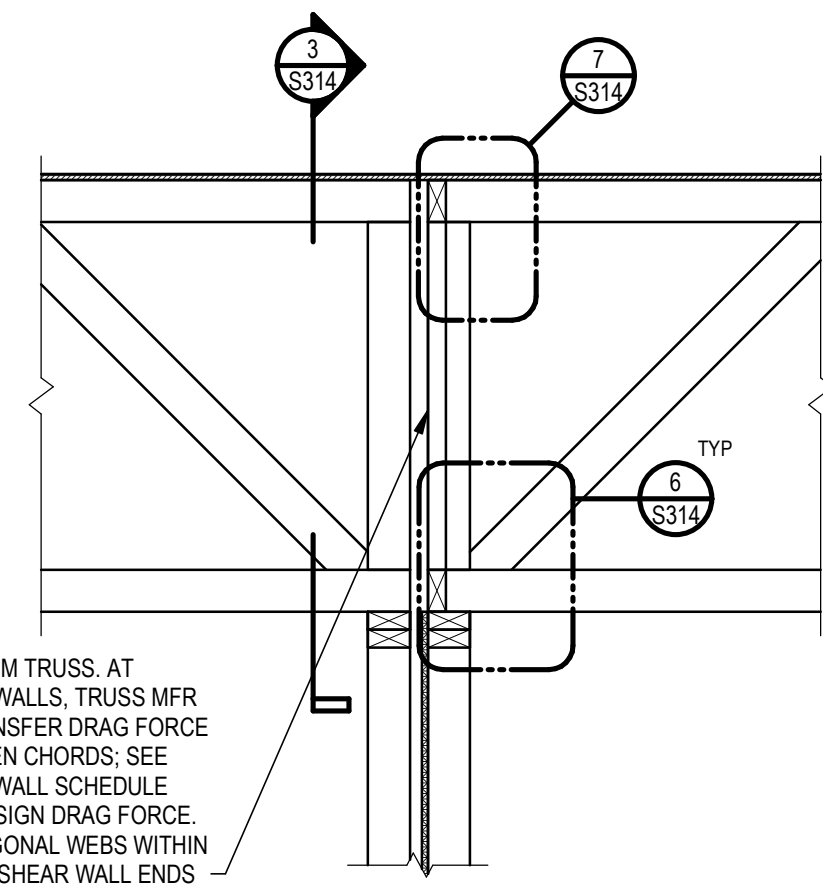
SECTION 2  
3/4" = 1'-0" S313



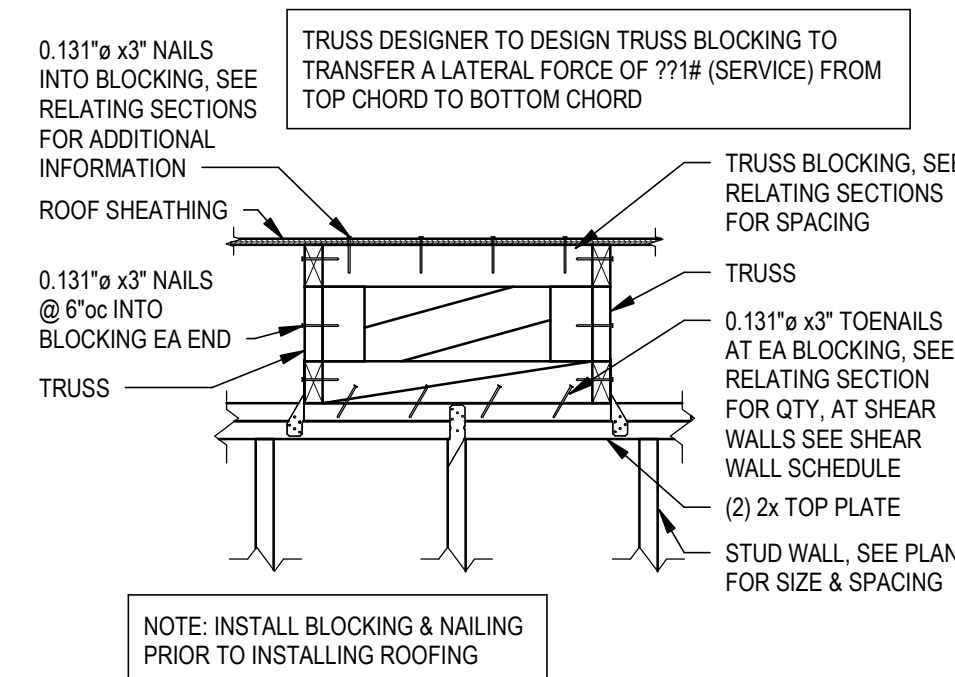
SECTION 3  
3/4" = 1'-0" S313



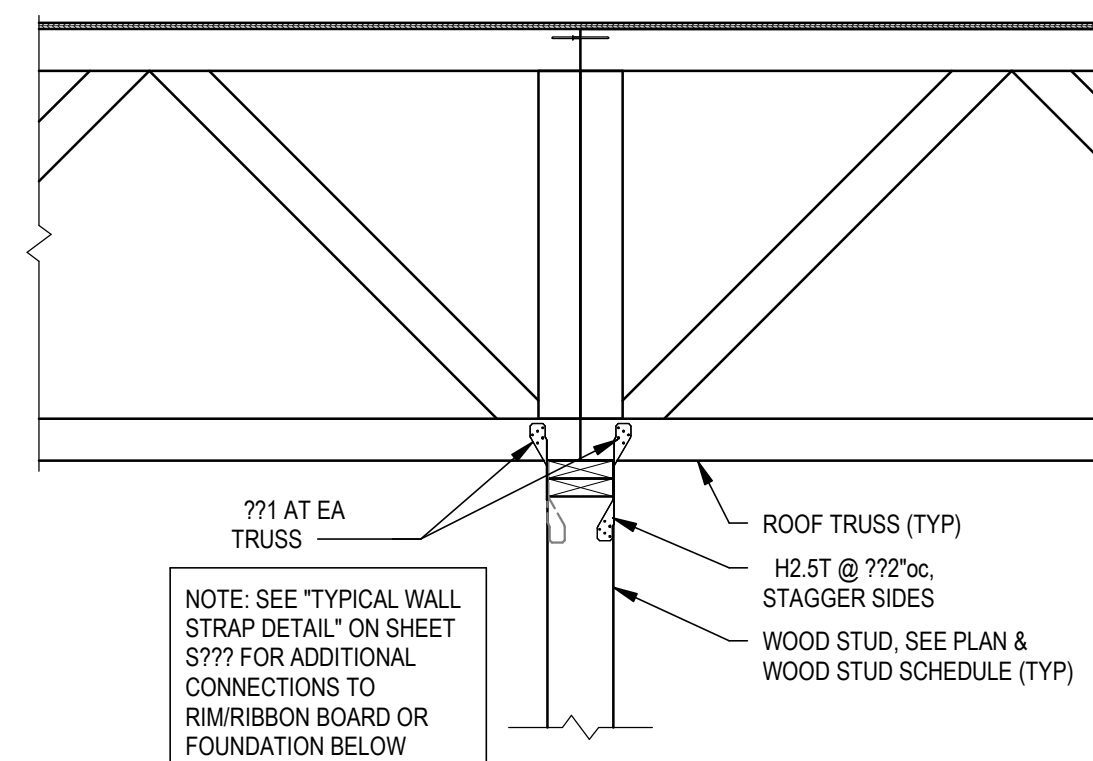
SECTION 4  
3/4" = 1'-0" S313



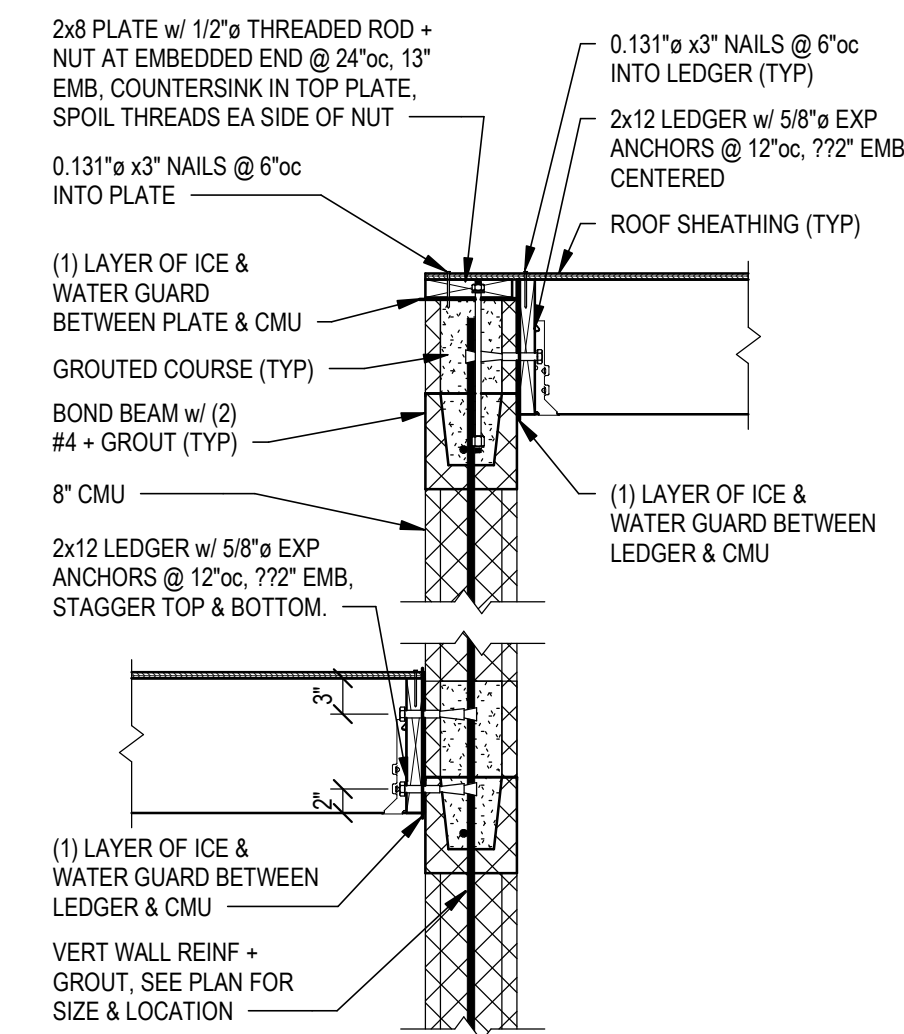
SECTION 5  
NTS S313



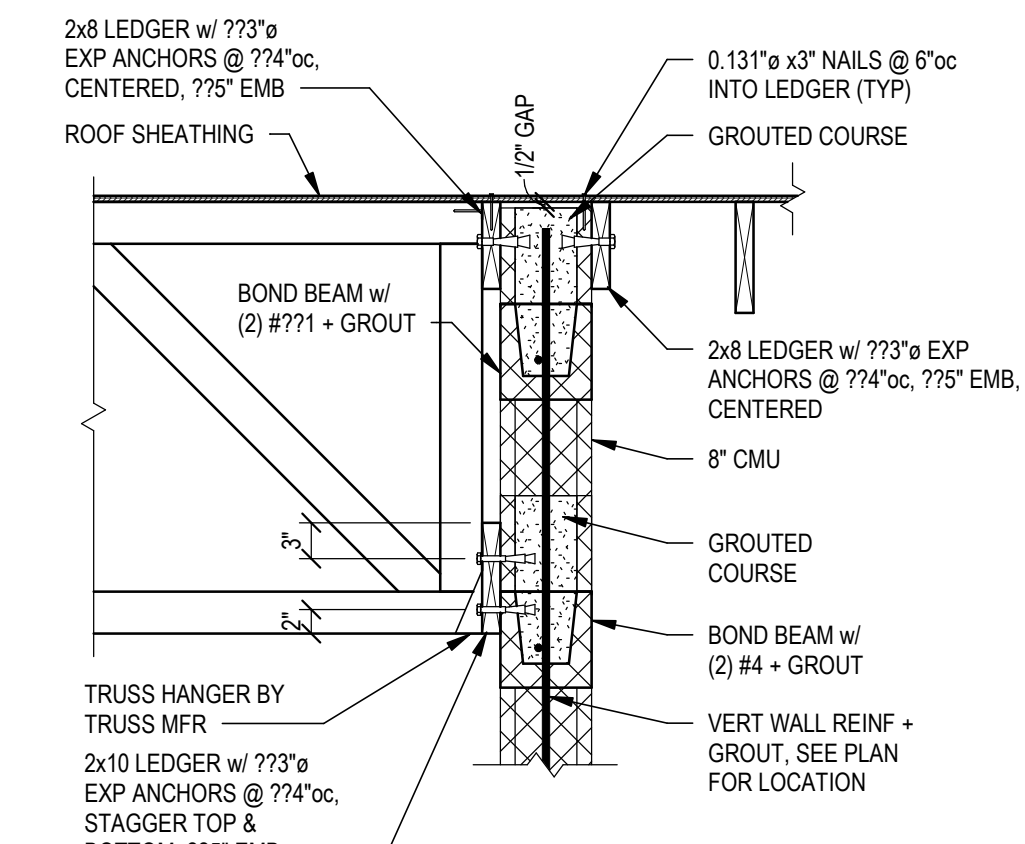
SECTION 6  
3/4" = 1'-0" S313



SECTION 7  
3/4" = 1'-0" S313



SECTION 8  
3/4" = 1'-0" S313



SECTION 9  
3/4" = 1'-0" S313

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
NO DATE DESCRIPTION

PROJECT NUMBER:  
**2312.95**

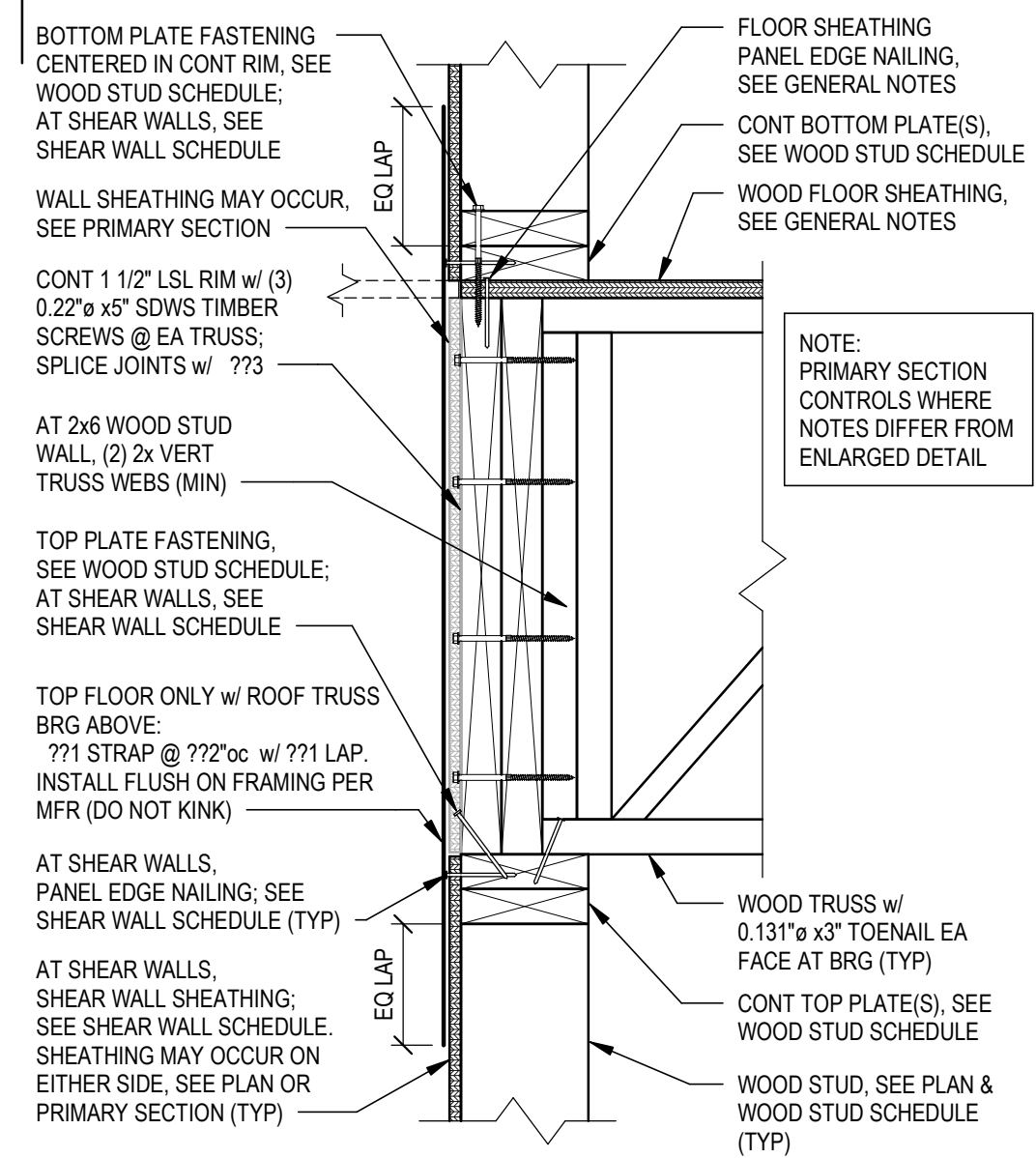
SHEET NAME:  
**WOOD ROOF FRAMING DETAILS & SECTIONS**

DATE:  
**Issue Date**

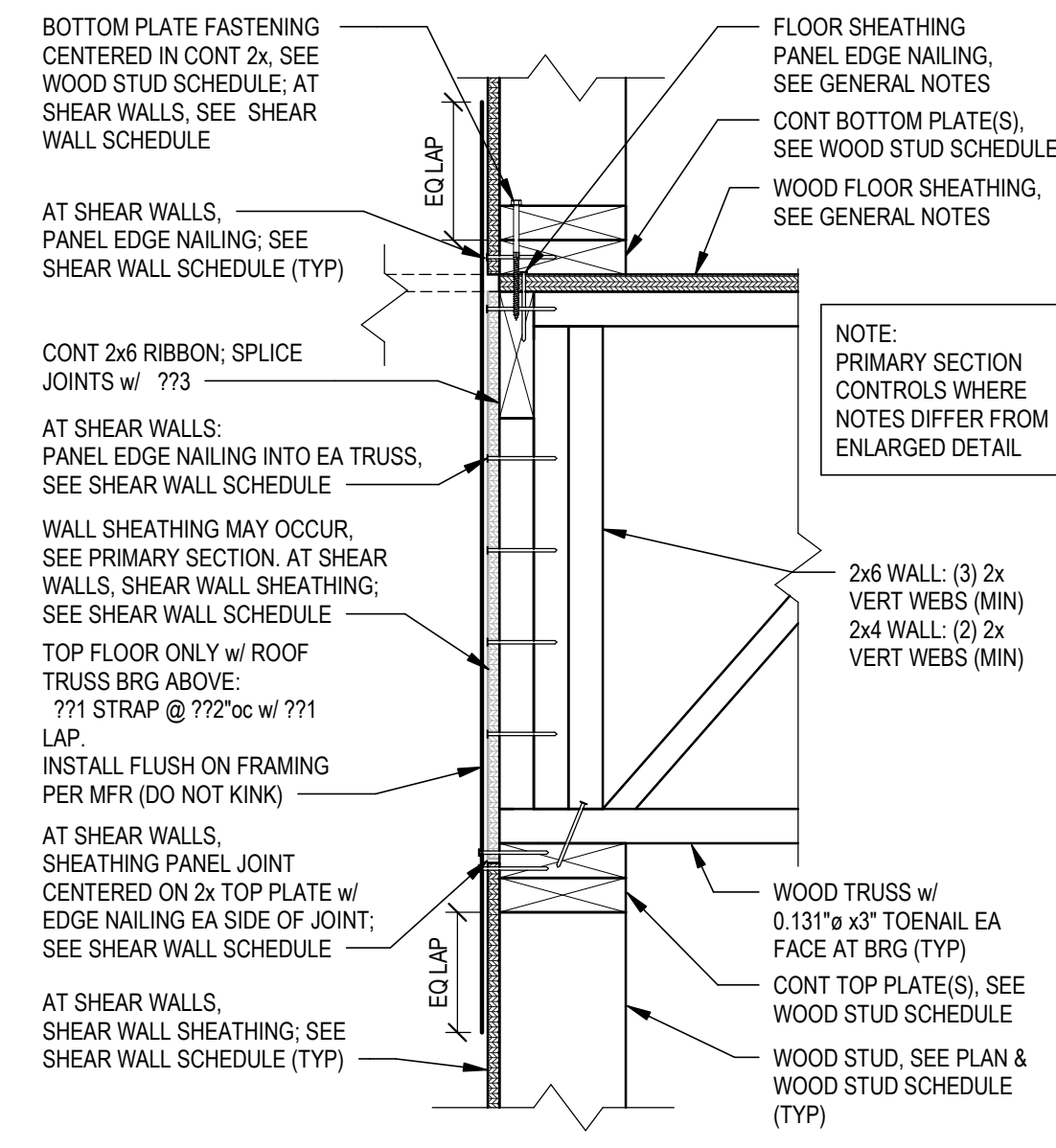
SHEET:

**S313**

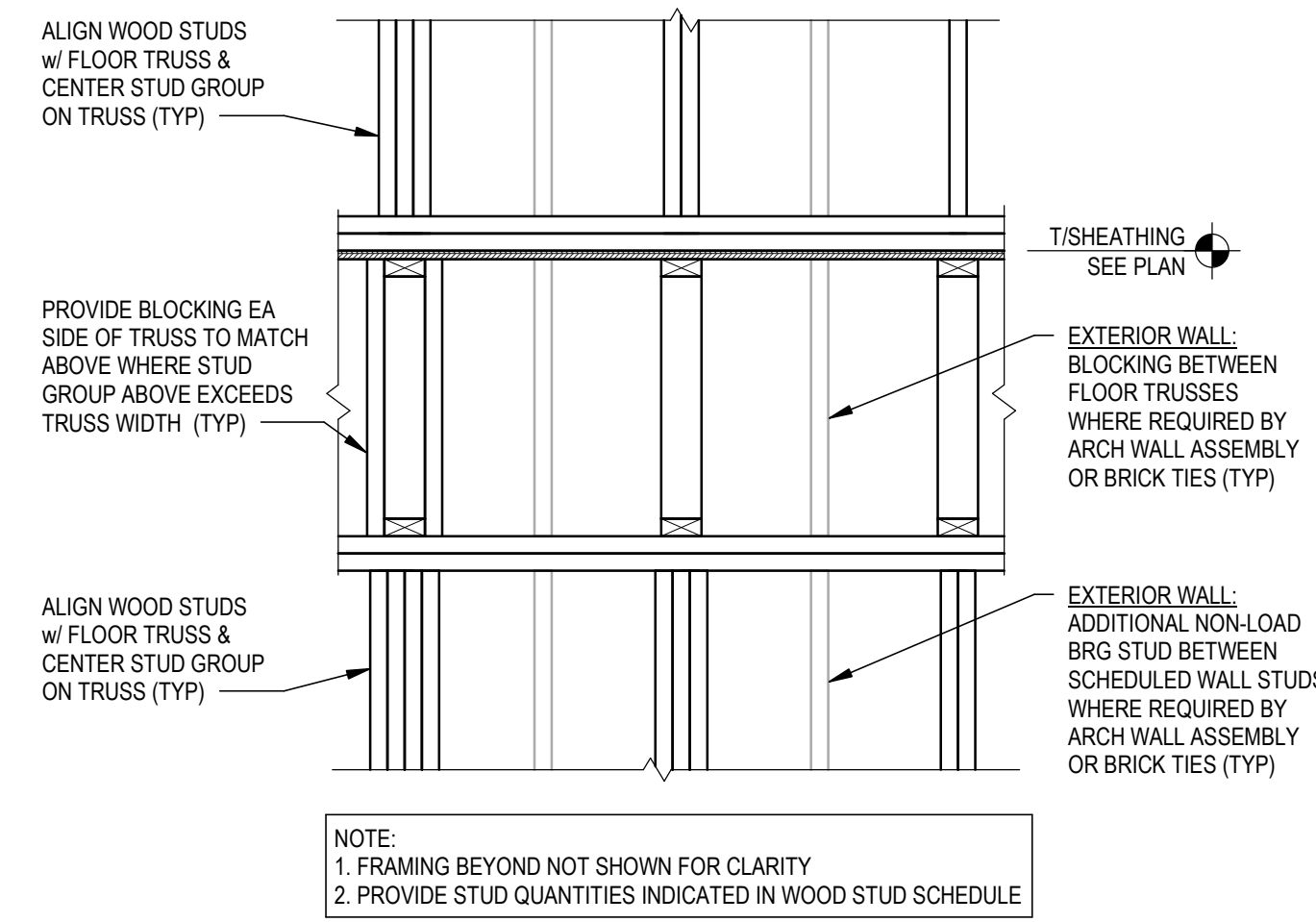
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



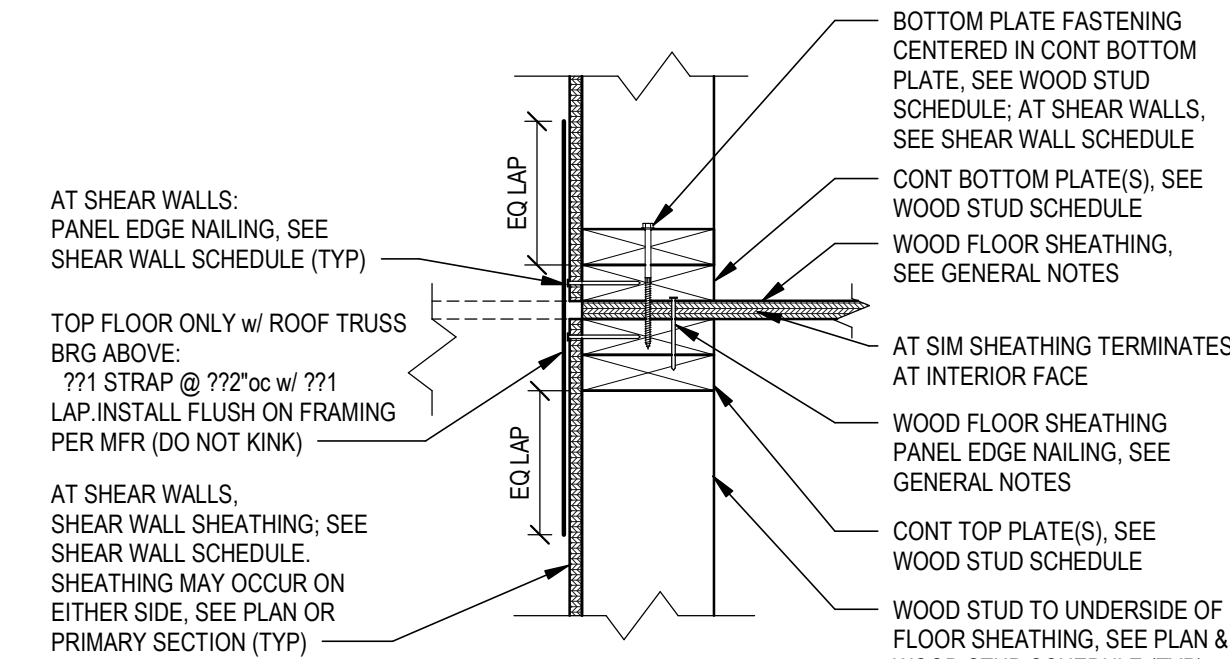
DETAIL 1  
NTS S314



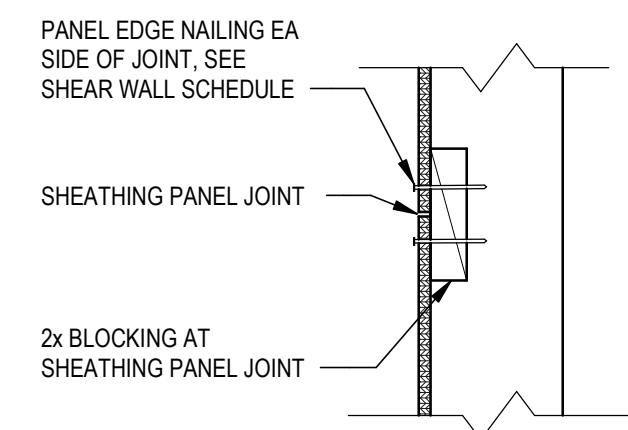
DETAIL 2  
NTS S314



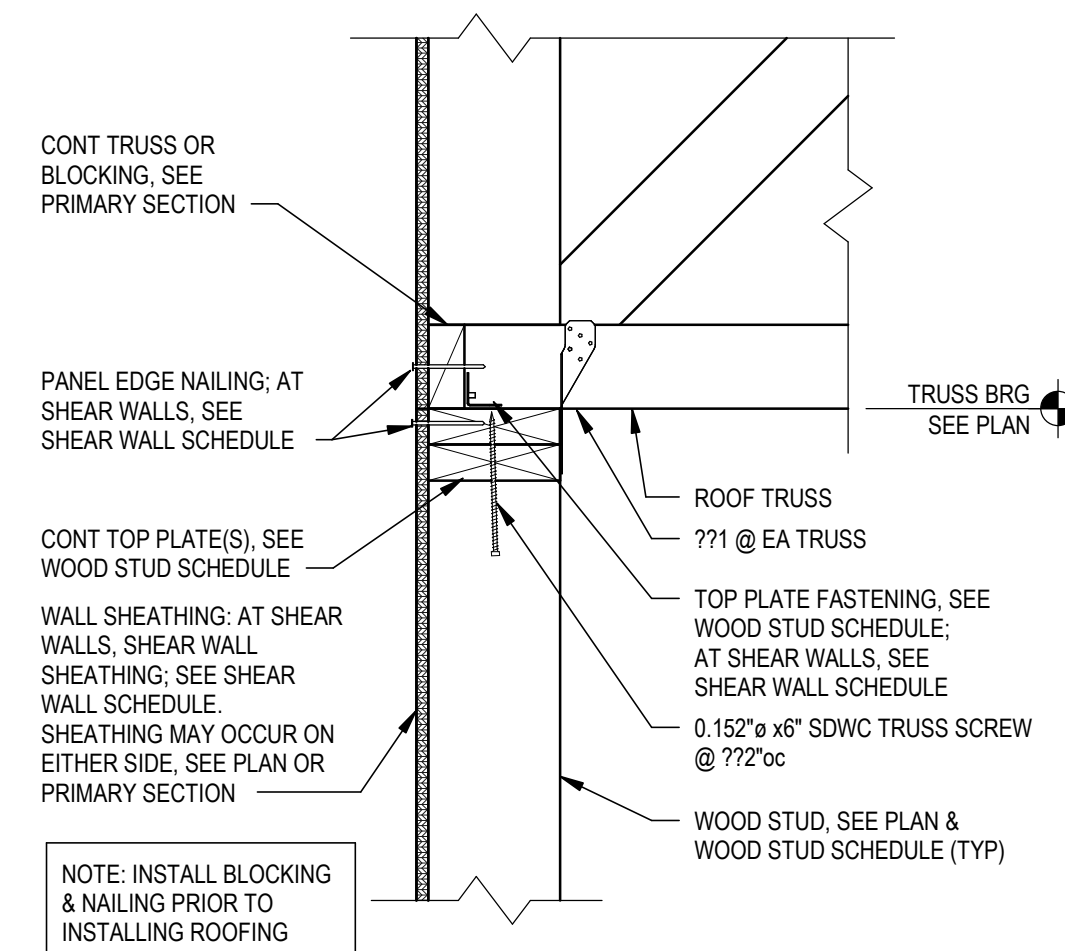
SECTION 3  
NTS S314



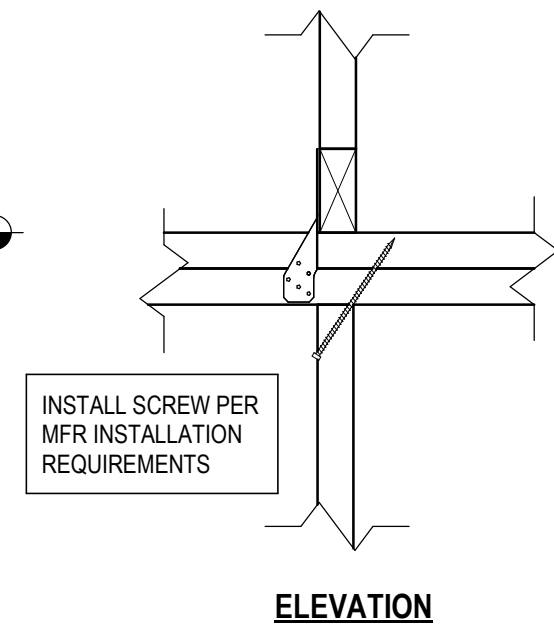
DETAIL 4  
NTS S314



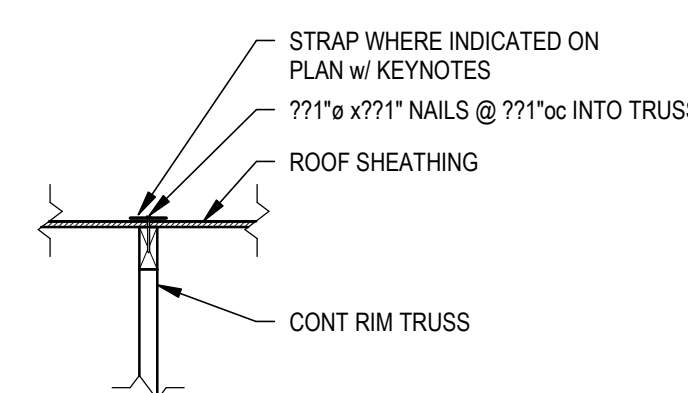
DETAIL 5  
NTS S314



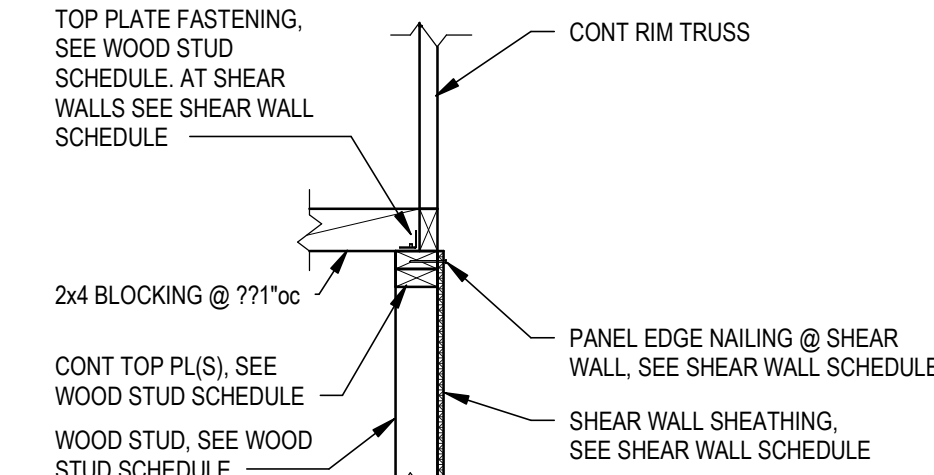
SECTION 6  
NTS S314



ELEVATION



SECTION 7  
NTS S314



SECTION 10  
NTS S314

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

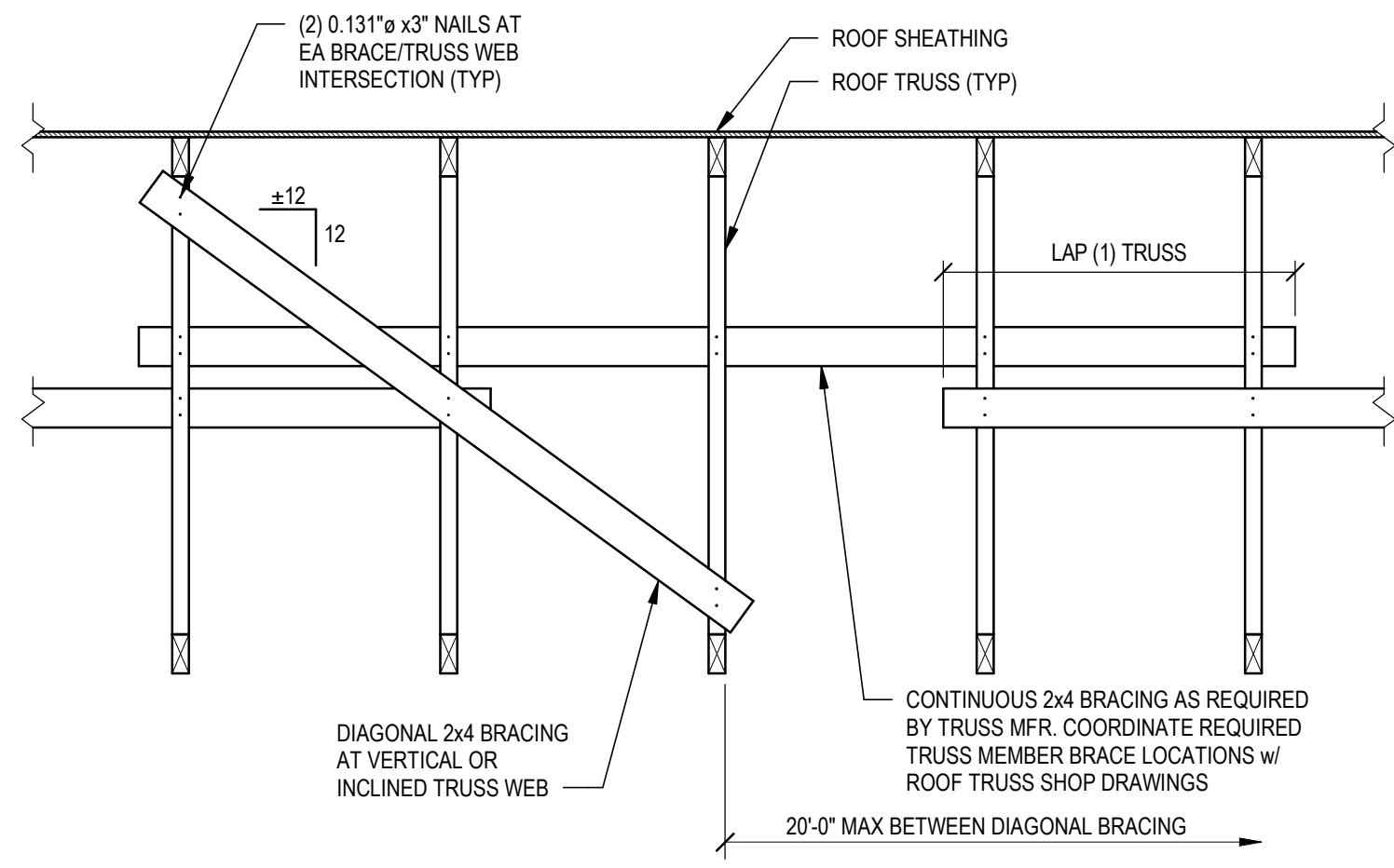
SHEET NAME:  
**TYPICAL FRAMING DETAILS & SECTIONS**

DATE:  
**Issue Date**

SHEET:  
**S314**



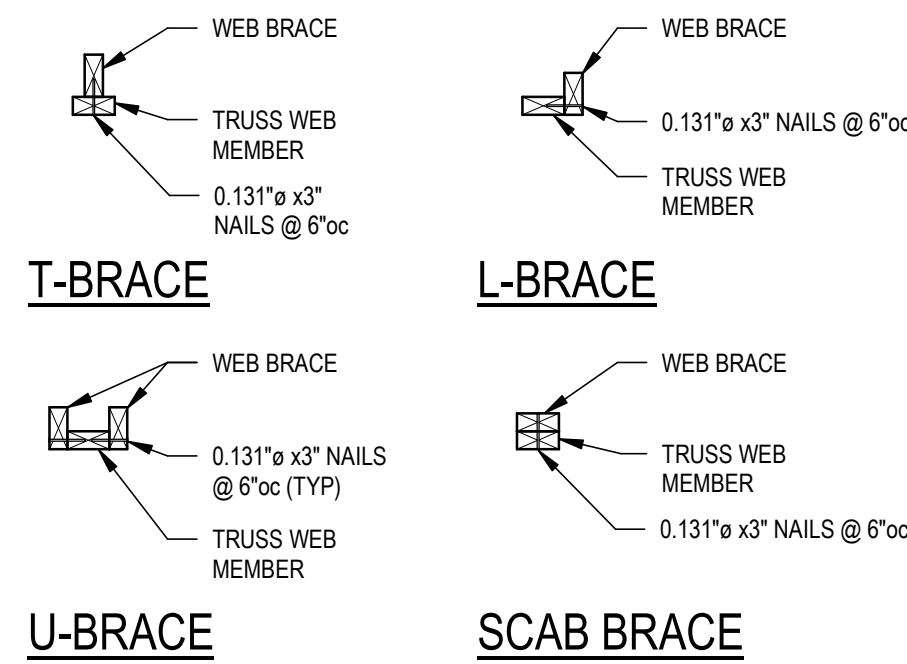
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



**WOOD ROOF TRUSS WEB PERMANENT BRACING**

**DETAIL**

NTS



**ALTERNATE PERMANENT WEB BRACING CONFIGURATIONS**

NTS

THE FOLLOWING NOTES ARE IN ADDITION TO THE INFORMATION STATED IN THE WOOD SECTION OF THE GENERAL NOTES.

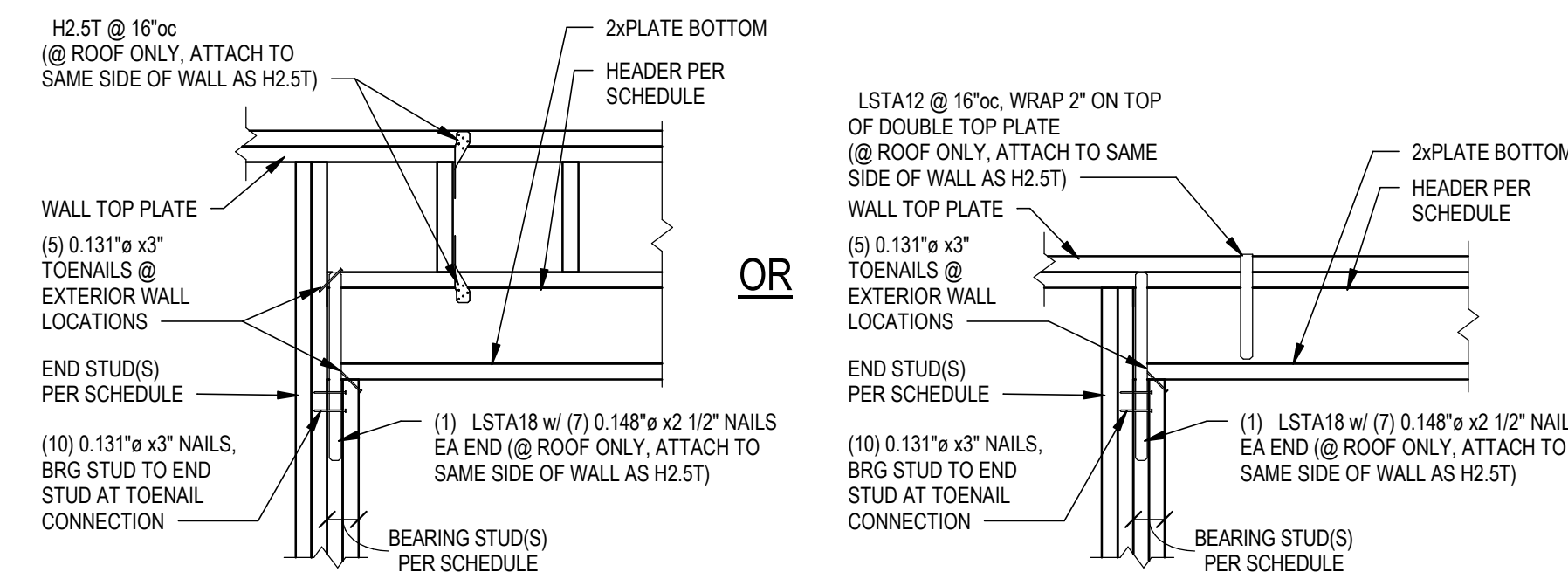
- NAIL SIZES AS CALLED OUT IN THE STRUCTURAL DRAWINGS & FOR CONNECTIONS ARE AS FOLLOWS:
  - 6d NAILS ARE 0.127" x 1 3/4" LONG (MIN 3/8" HEAD)
  - 8d NAILS ARE 0.131" x 2 1/2" LONG.
  - 10d NAILS ARE 0.148" x 3" LONG.
  - 16d NAILS ARE 0.162" x 3 1/2" LONG.
- PNEUMATIC GUN NAILS SHALL MEET THE DIAMETER & LENGTH AS SHOWN ABOVE REGARDLESS OF THE NAIL SIZE INDICATED BY THE PNEUMATIC GUN NAIL MANUFACTURER.
- NAILS WITH EXTERIOR EXPOSURE OR FASTENED TO PRESSURE TREATED LUMBER MUST BE GALVANIZED.
- FOR STRAPS:
  - ALWAYS USE THE DIAMETER OF NAIL AS SPECIFIED BY . 1 1/2" LONG NAILS, INSTEAD OF FULL LENGTH NAILS, CAN BE USED IF STRAP IS FASTENED DIRECTLY TO THE FRAMING MEMBER WITHOUT SHEATHING IN BETWEEN. OTHERWISE FULL LENGTH NAILS AS SPECIFIED BY MUST BE USED.
- FOR HANGERS:
  - ALWAYS USE THE DIAMETER OF NAIL & MAXIMUM NAILING AS SPECIFIED BY .
  - IF FASTENING TO A MULTIPLE PLY BEAM/HEADER, FULL LENGTH NAILS AS SPECIFIED BY MUST BE USED FOR FASTENING FROM THE HANGER FLANGE TO THE BEAM/HEADER.
  - IF FASTENING TO A SINGLE PLY BEAM/HEADER, 1 1/2" LONG NAILS FASTENING FROM THE HANGER FLANGE TO THE BEAM/HEADER CAN BE USED INSTEAD OF FULL LENGTH NAILS AS SPECIFIED BY .
  - IF HANGER IS A DOUBLE SHEAR HANGER, DIAGONAL NAILS MUST BE FULL LENGTH AS SPECIFIED BY REGARDLESS OF WHETHER OR NOT THE BEAM/HEADER IS SINGLE PLY OR MULTIPLE PLY, SEE IMAGE BELOW.

**NAILING LENGTH NOTES**

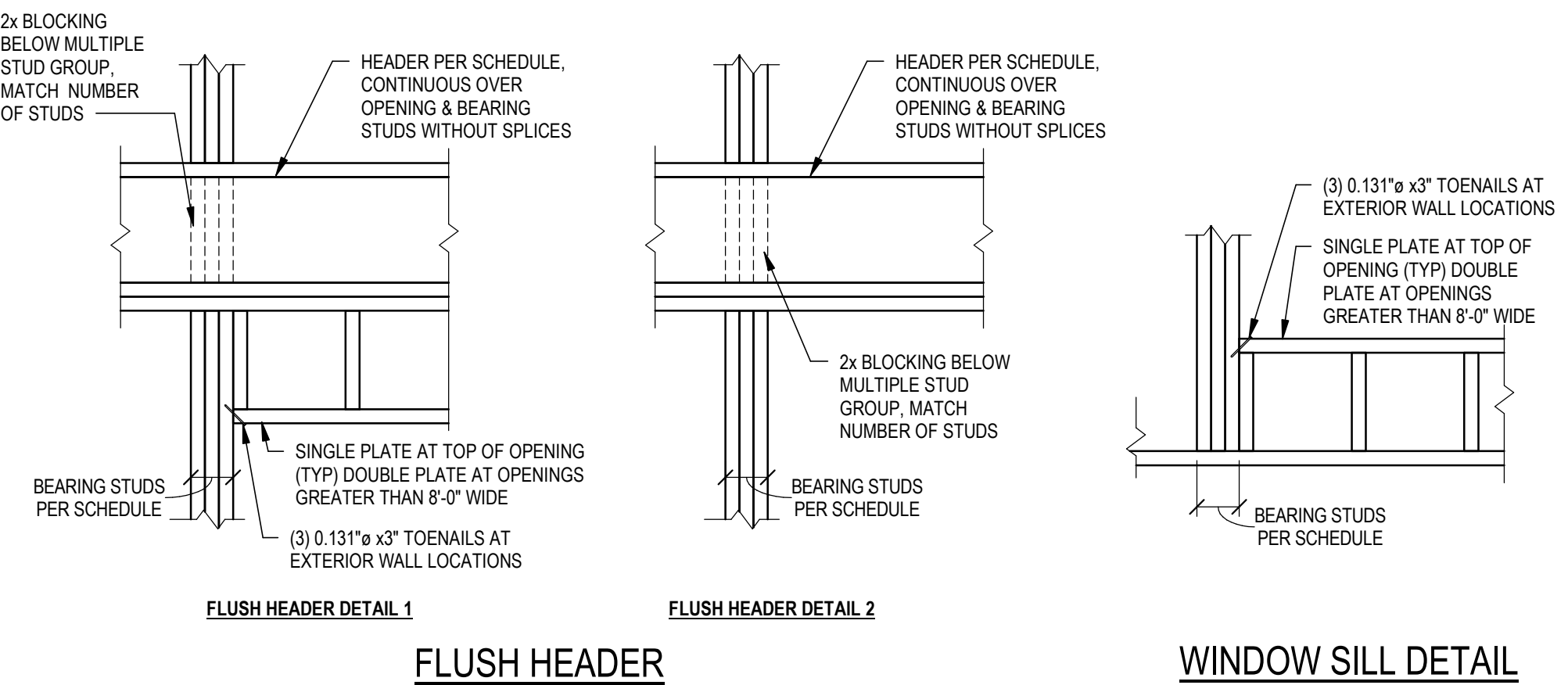
MARK	HEADER SIZE	BRG STUDS, BOTH ENDS								NOTES
		3RD FLR		4TH FLR		5TH FLR		6TH FLR		
		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6	
H1	(3) 2x6 FRT	-	1	-	1	-	1	-	1	LSTA15 EA END @ ROOF ONLY
H2	(3) 2x6	-	2	-	1	-	1	-	1	LSTA9 EA END @ ROOF ONLY
H3	(3) 2x8	-	2	-	2	-	1	-	1	LSTA12 EA END @ ROOF ONLY
H4	(3) 2x8	-	4	-	3	-	2	-	1	LSTA12 EA END @ ROOF ONLY
H5	(3) 2x8 FRT	-	-	-	-	-	-	-	-	(2) LSTA12 EA END @ ROOF ONLY
H6	(3) 2x10 FRT	-	-	-	-	-	-	-	-	(2) LSTA12 EA END @ ROOF ONLY
H7	(2) 1 1/2"x20" LSL	-	2	-	2	-	1	-	-	
H8	(2) 1 1/2"x20" LSL	-	3	-	2	-	2	-	-	
H9	(2) 1 1/2"x20" LSL	-	4	-	3	-	2	-	-	

**HEADER END STUD SCHEDULE**

OPENING WIDTH UP TO	END STUD QTY, BOTH ENDS			
	EXTERIOR (FRT)		INTERIOR	
7'-6"	2x4	2x6	2x4	2x6
	-	1	1	1

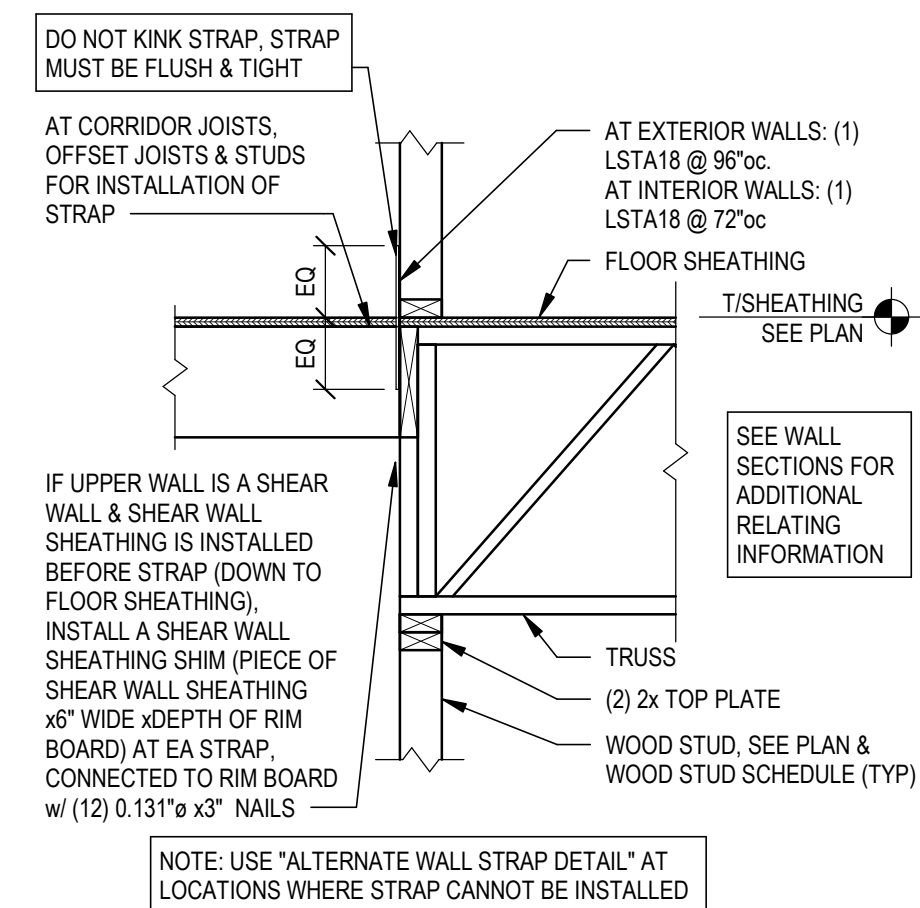


**DROPPED HEADER (INTERIOR & EXTERIOR)**



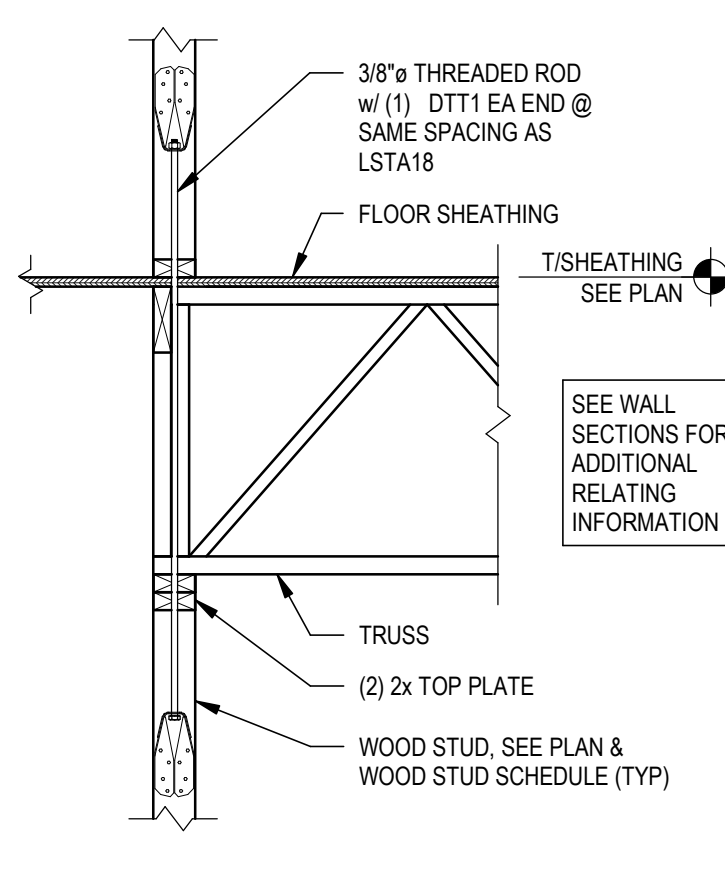
**FLUSH HEADER**

**WINDOW SILL DETAIL**



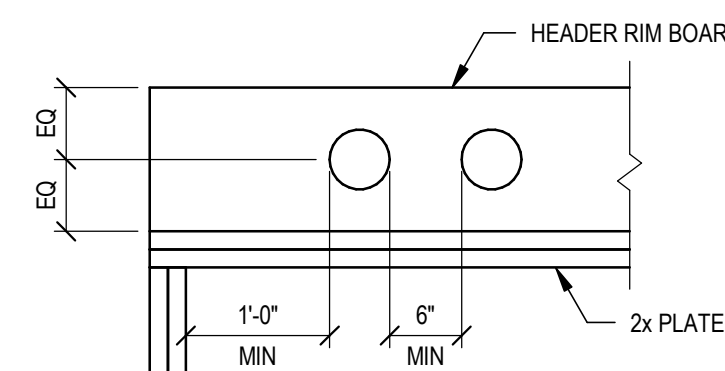
**TYPICAL WALL STRAP DETAIL AT HIGHEST LEVEL WALLS ONLY**

NTS



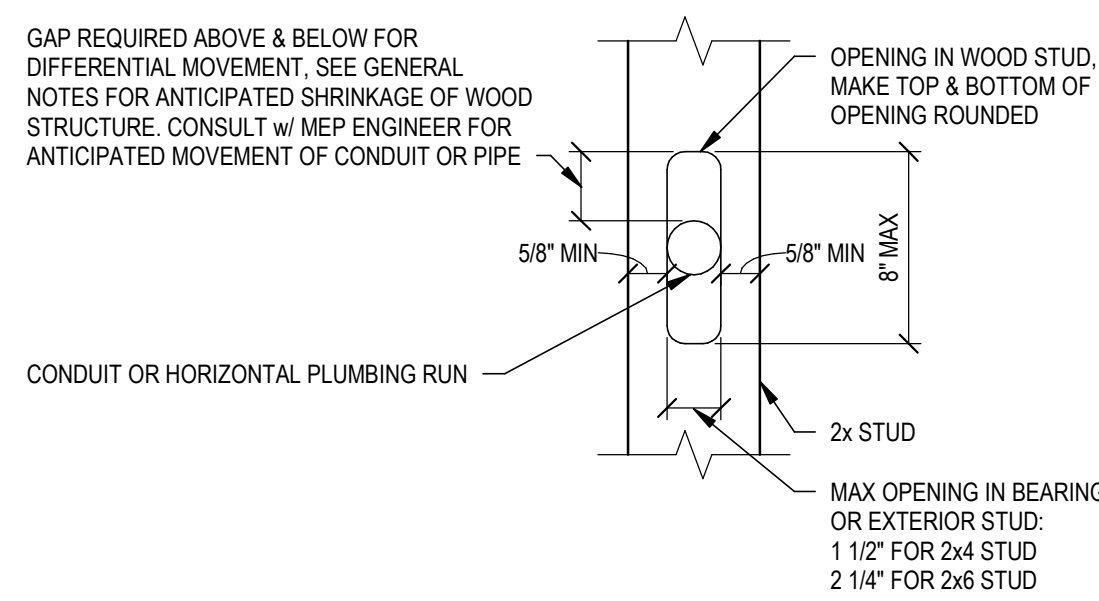
**ALTERNATE WALL STRAP DETAIL AT HIGHEST LEVEL WALLS ONLY**

NTS



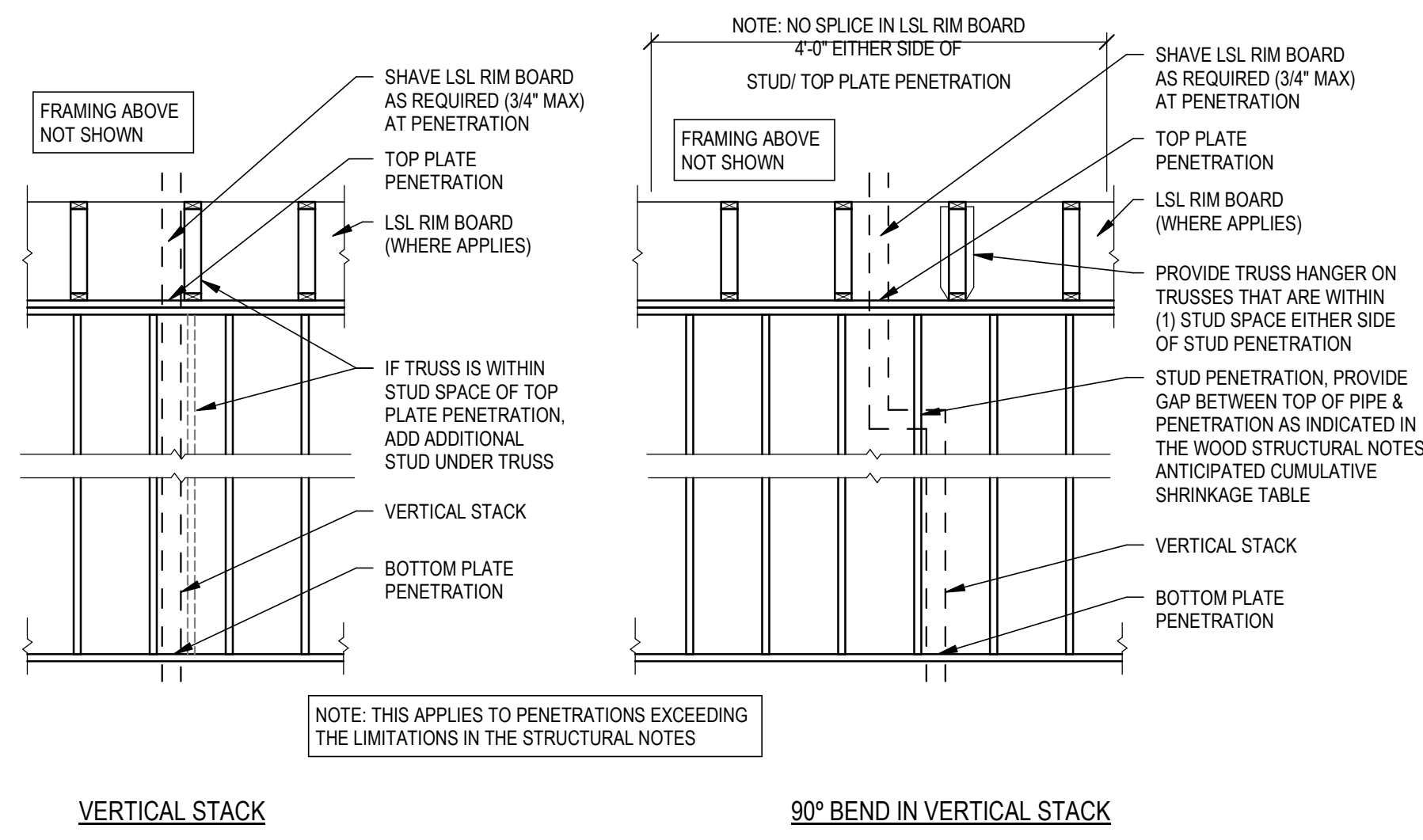
**TYPICAL FLUSH HEADER PENETRATION DETAIL**

NTS



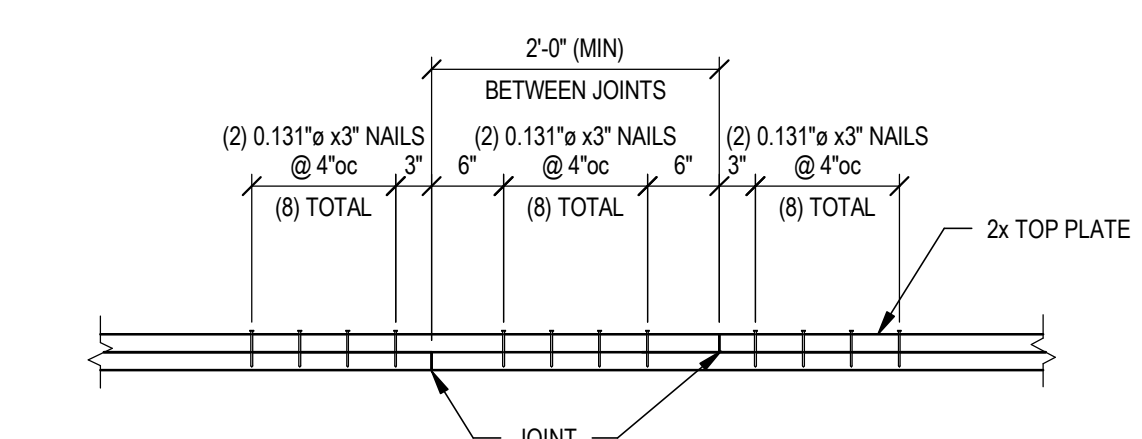
**TYPICAL HORIZONTAL PENETRATION THRU WOOD STUDS**

NTS



**PLUMBING STACK TOP PLATE/STUD PENETRATION DETAIL IN LOAD BEARING WALL**

NTS



**TYPICAL TOP PLATE SPLICE DETAIL**

NTS

TYPE/LOCATION	EXTERIOR	INTERIOR CORRIDOR	INTERIOR DEMISING (TRUSS BEARING ON WALLS) <sup>2</sup>		INTERIOR LOAD BEARING WITHIN UNIT <sup>1</sup>	INTERIOR NON-LOAD BEARING	EAST STAIR SHAFT (TRUSS OR JOIST BEARING ON WALL)	WEST STAIR SHAFT (TRUSS OR JOIST BEARING ON WALL)
			TRUSS SPAN ≤ 16'-0"	TRUSS SPAN > 16'-0"				
			6TH FLR	(1) FRT 2x6 @ 16"oc				
4TH FLR	(1) FRT 2x6 @ 16"oc	(1) 2x4 @ 16"oc	(1) 2x4 @ 24"oc	(2) 2x4 @ 24"oc	(1) 2x6 @ 24"oc	(1) 2x6 @ 16"oc	(1) 2x6 @ 16"oc	(1) 2x6 @ 16"oc
3RD FLR	(1) FRT 2x6 @ 16"oc	(1) 2x4 @ 16"oc	(2) 2x4 @ 24"oc	(3) 2x4 @ 24"oc	(2) 2x6 @ 16"oc	(1) 2x6 @ 16"oc	(2) 2x6 @ 16"oc	(1) 2x6 @ 16"oc
2ND FLR	(1) FRT 2x6 @ 16"oc	(1) 2x4 @ 16"oc	(2) 2x4 @ 24"oc	(4) 2x4 @ 24"oc	(3) 2x6 @ 24"oc	(1) 2x6 @ 16"oc	(2) 2x6 @ 16"oc	(2) 2x6 @ 16"oc
BOTTOM PLATE FASTENING <sup>2,3</sup>	SDWS22500DB @ 32"oc	SDWS22500DB @ 48"oc	SDWS22500DB @ 48"oc	SDWS22500DB @ 48"oc	SDWS22500DB @ 48"oc	SDWS22500DB @ 48"oc	SDWS22500DB @ 48"oc	SDWS22500DB @ 48"oc
TOP PLATE FASTENING <sup>2,3</sup>	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING	SEE BOTTOM PLATE FASTENING
WALL BASE ANCHORAGE TO CONCRETE SLAB <sup>3</sup>	5/8" x 6" TITEN HD @ 48"oc	(2) PAF @ 24"oc	(2) PAF @ 24"oc	(2) PAF @ 24"oc	(2) PAF @ 24"oc	(2) PAF @ 24"oc	(2) PAF @ 24"oc	(2) PAF @ 24"oc

**NOTES:**  
1. SEE GENERAL NOTES FOR STUD MATERIAL.  
2. SEE REFERENCED SECTIONS ON PLAN FOR BOTTOM AND TOP PLATE FASTENING REQUIREMENTS.  
3. AT SHEAR WALLS SEE SHEAR WALL SCHEDULE FOR REQUIREMENTS.  
4. PROVIDE (2) 2x BOTTOM PLATE(S) & (2) 2x TOP PLATES. PLATE MATERIAL SHALL MATCH STUD MATERIAL.  
5. PROVIDE SPECIFIED STUDS AT TRUSS BEARING LOCATION AND PROVIDE ADDITIONAL STUDS @ 12"oc AS REQUIRED BY ARCHITECTURAL. SEE SECTIONS.  
6. REFER TO ARCHITECTURAL FLOOR PLANS AND STRUCTURAL FRAMING PLANS FOR WALL TYPES AND EXTENTS.  
7. FOR SCREW SPACING TIGHTER THAN 6"oc, PRE-DRILL AS REQUIRED TO PREVENT SPLITTING OF THE WOOD MEMBER.

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
NO DATE DESCRIPTION

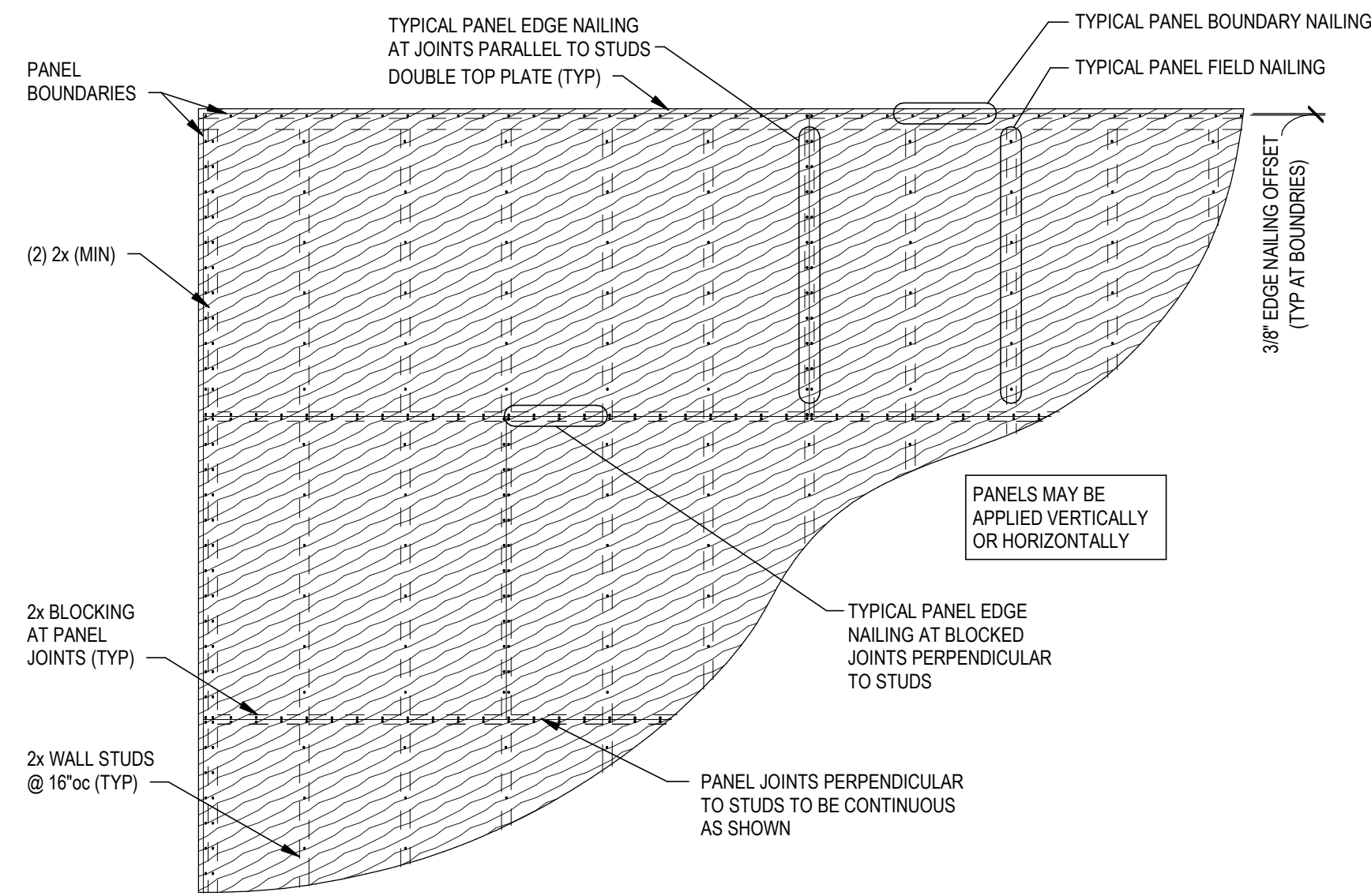
PROJECT NUMBER:  
**2312.95**

**TYPICAL WOOD FRAMING SCHEDULES & DETAILS**

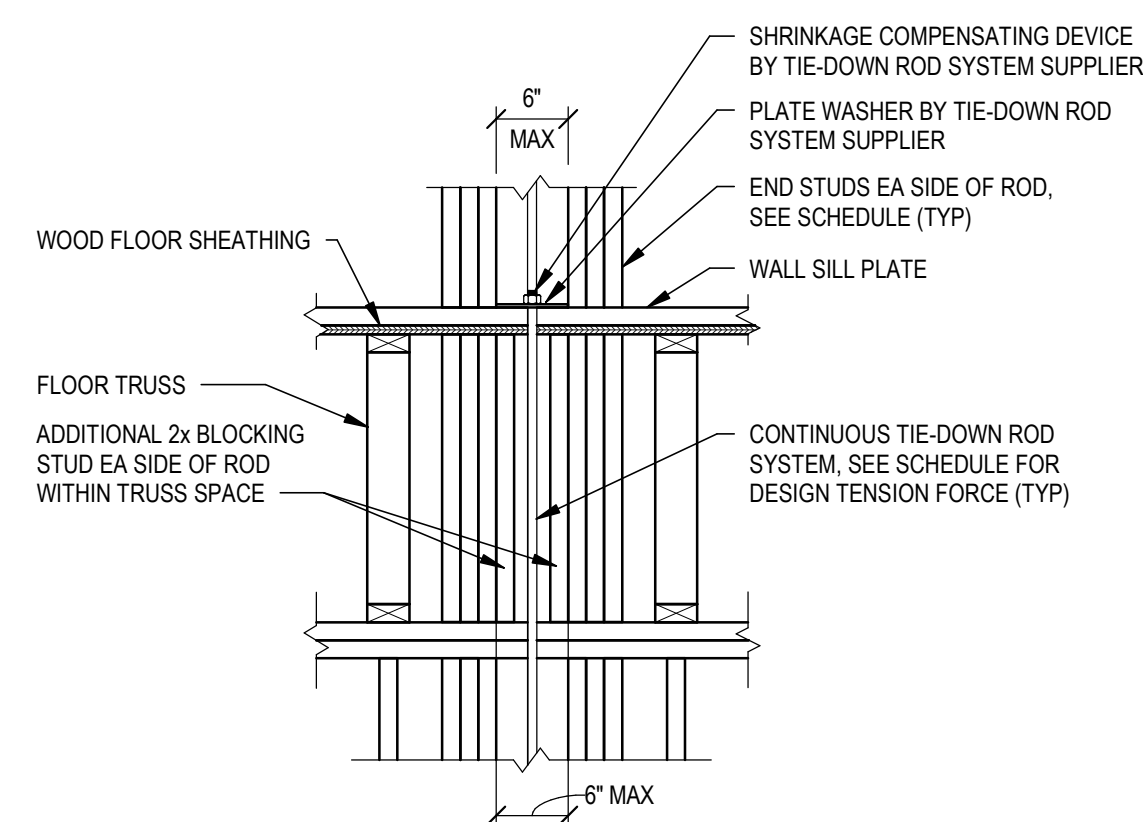
DATE:  
**Issue Date**

SHEET:  
**S315**

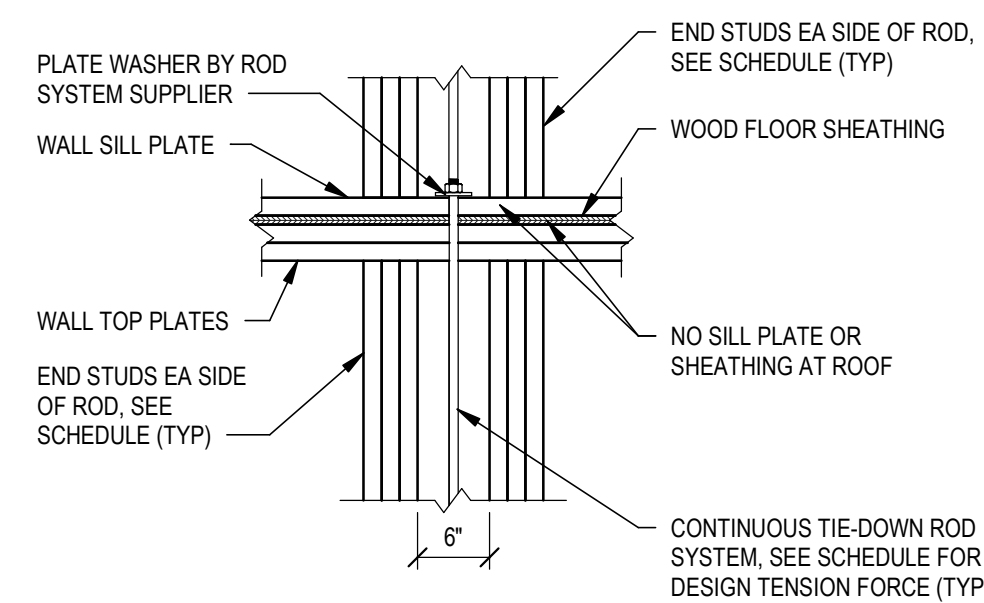
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



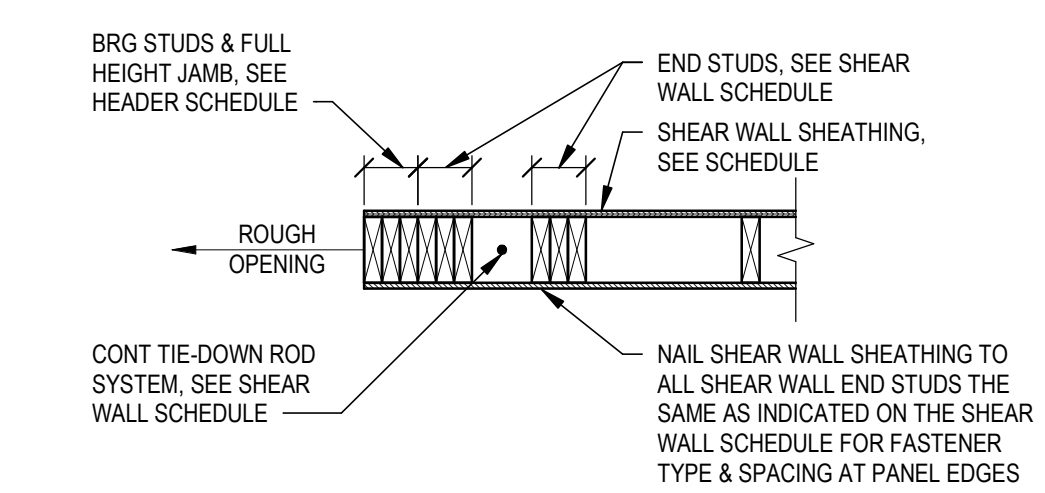
**SHEAR WALL SHEATHING NAILING DETAIL**  
NTS



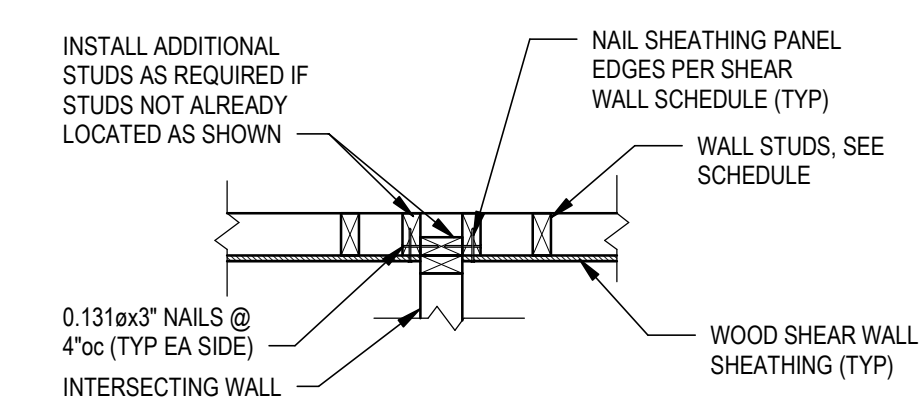
**DETAIL 1**  
3/4" = 1'-0" S316



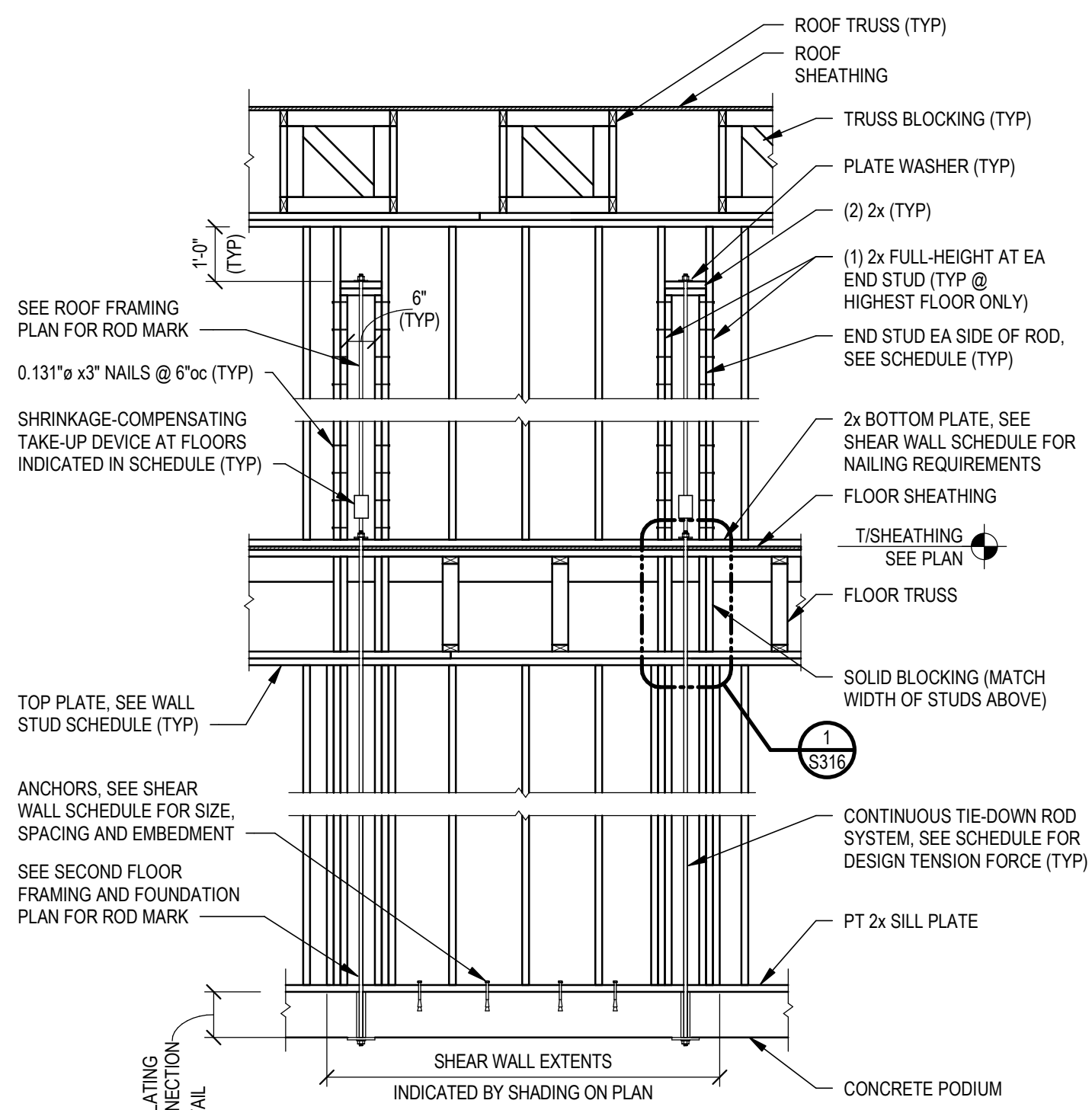
**TYPICAL BEARING BLOCK DETAIL 2**  
3/4" = 1'-0" S316



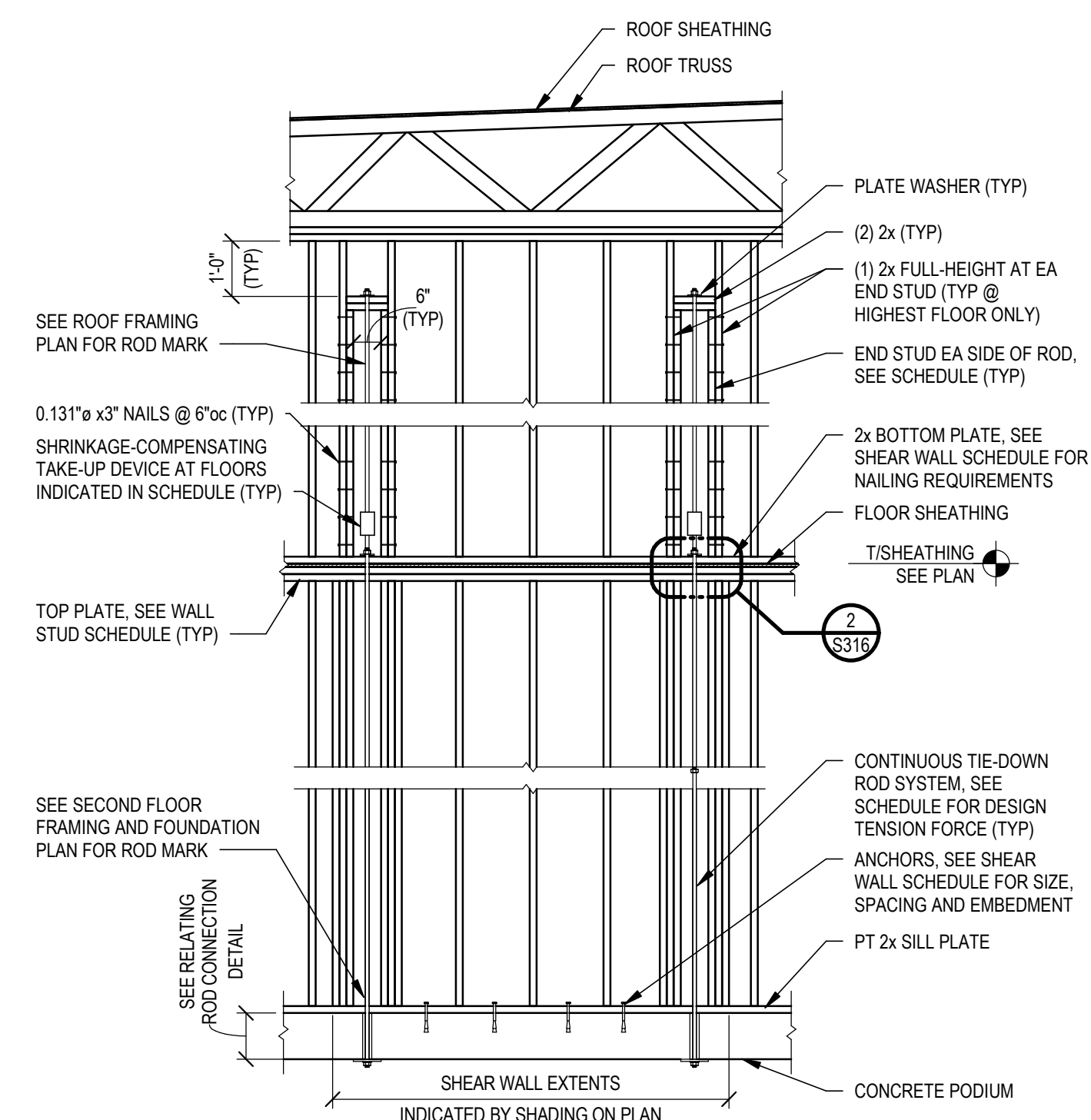
**TYPICAL PLAN DETAIL FOR SHEAR WALL CONTINUOUS TIE-DOWN ROD SYSTEM ADJACENT TO ROUGH OPENING**  
NTS



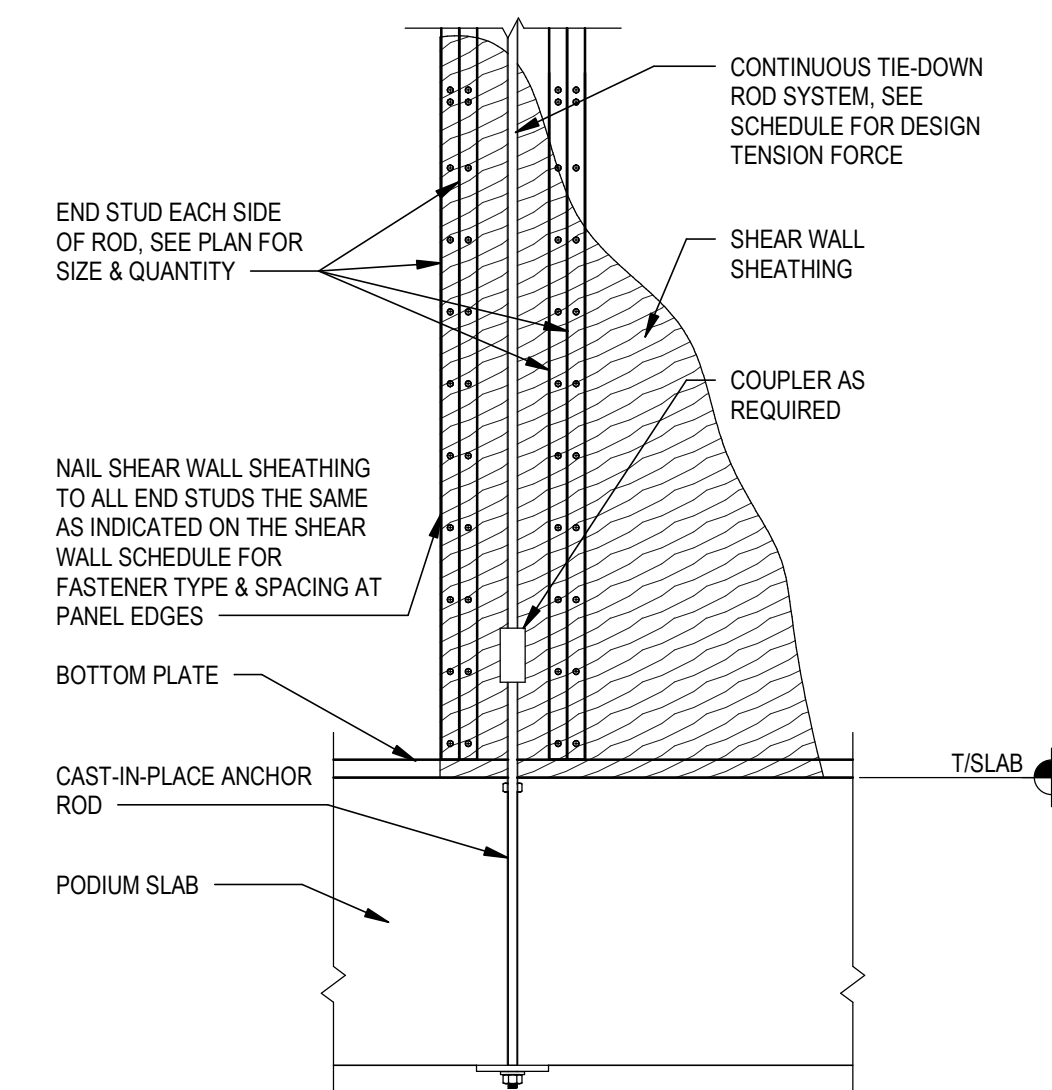
**TYPICAL SHEAR WALL SHEATHING INTERRUPTION**  
3/4" = 1'-0"



**SHEAR WALL DETAIL WITH CONTINUOUS TIE-DOWN ROD SYSTEM PERPENDICULAR TO FLOOR FRAMING**  
NTS



**SHEAR WALL DETAIL WITH CONTINUOUS TIE-DOWN ROD SYSTEM PARALLEL TO FLOOR FRAMING**  
NTS



**TYPICAL ROD AT SHEAR WALL END STUD CONNECTION TO PODIUM**  
NTS

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**TYPICAL WOOD SHEAR WALL SCHEDULES AND DETAILS**

DATE:  
**Issue Date**

SHEET:  
**S316**

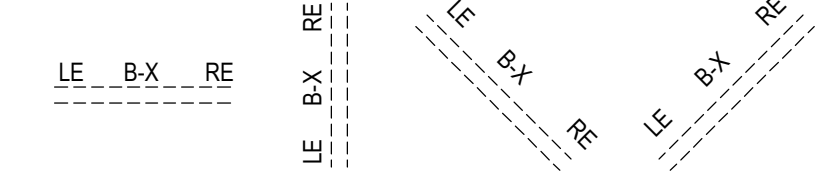
COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

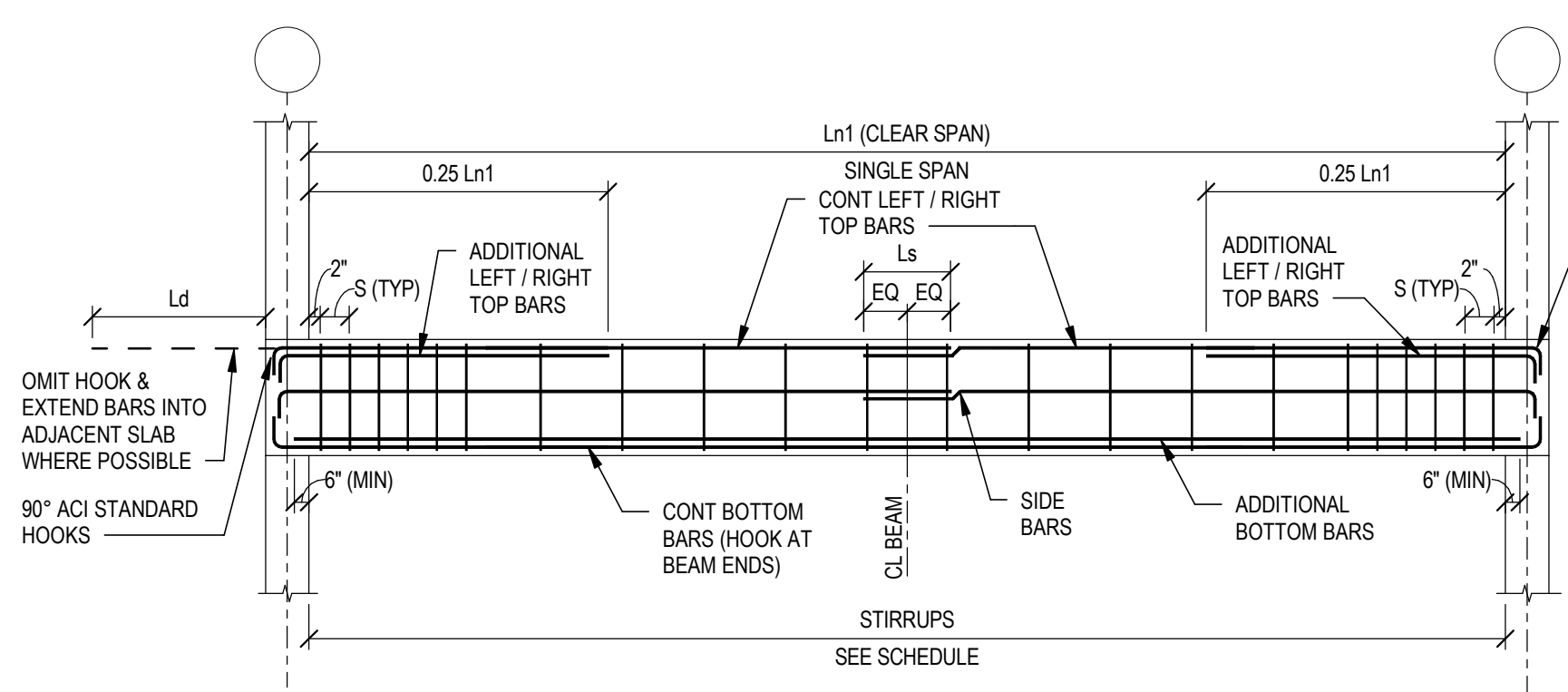




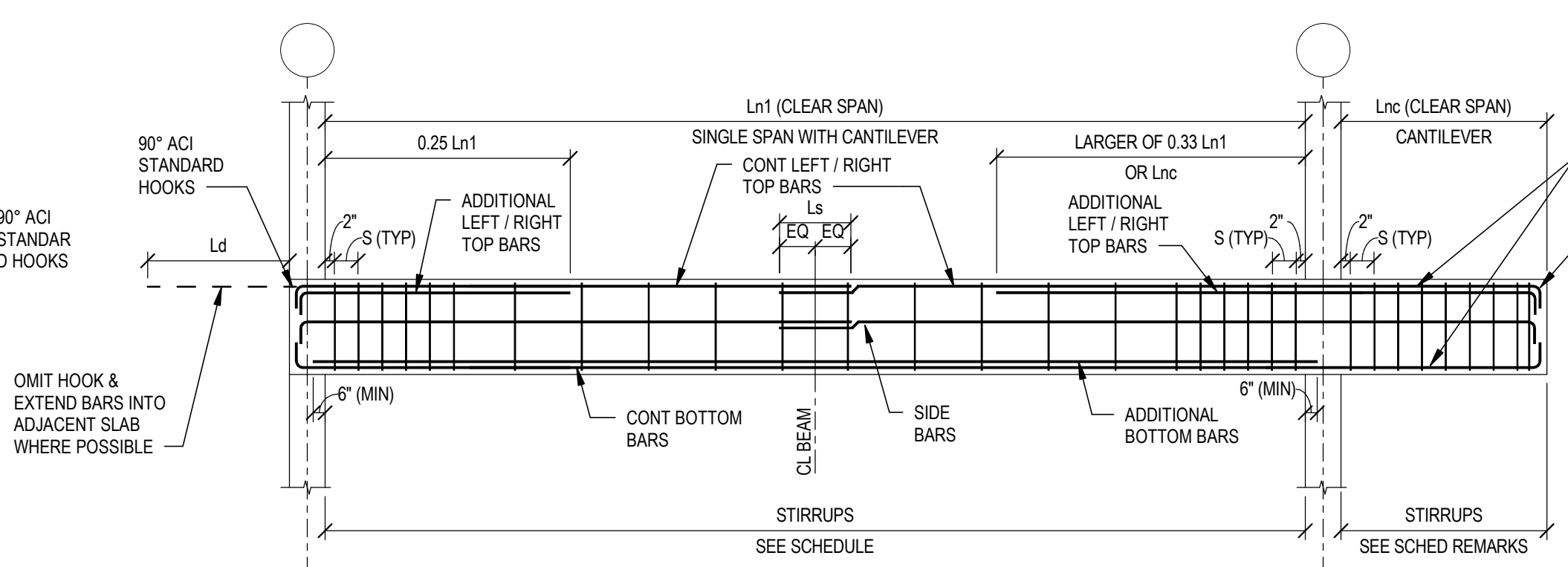
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

**TYPICAL CONCRETE BEAM REINFORCEMENT NOTES:**

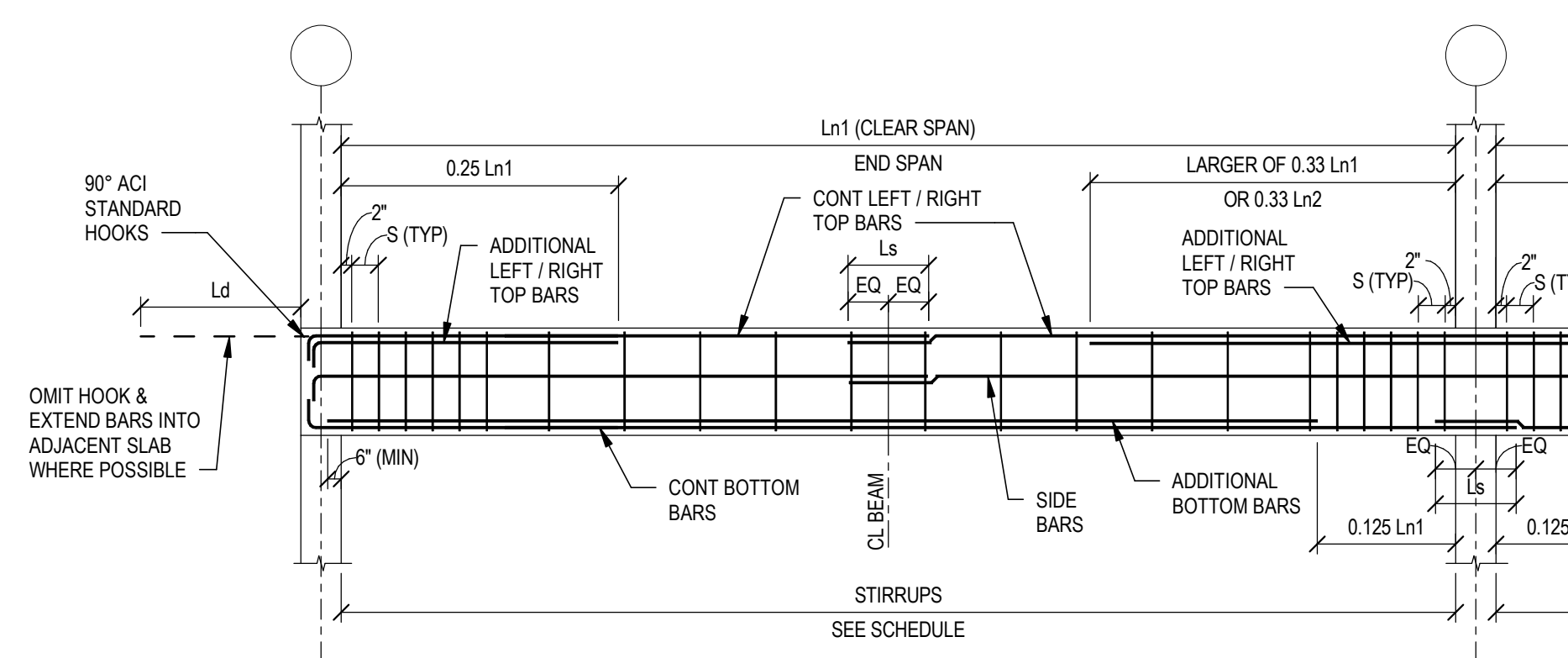
1. THE LEFT & RIGHT ENDS OF THE BEAM SHALL BE ESTABLISHED ACCORDING TO THE ORIENTATION OF THE BEAM ON PLAN BASED ON THE FOLLOWING CONDITIONS:  

2. SEE BEAM SCHEDULE FOR TOP BARS, BOTTOM BARS, SIDE BARS, & STIRRUPS.
3. BEAM BARS THAT EXTEND INTO AN ADJACENT BEAM ARE NOT ADDITIVE WHERE ADJACENT BEAM BARS DO NOT MATCH, USE THE REINFORCEMENT WITH THE GREATER TOTAL AREA.
4. HOOK TOP, BOTTOM, AND SIDE BARS WHERE SHOWN OR NOTED. PROVIDE STANDARD 90° HOOK OR 180° HOOK WHERE REQUIRED FOR CLEARANCE. WHERE A BEAM FRAMES INTO A COLUMN, A MINIMUM OF TWO TOP AND BOTTOM BARS SHALL BE PLACED THROUGH THE COLUMN CORE.



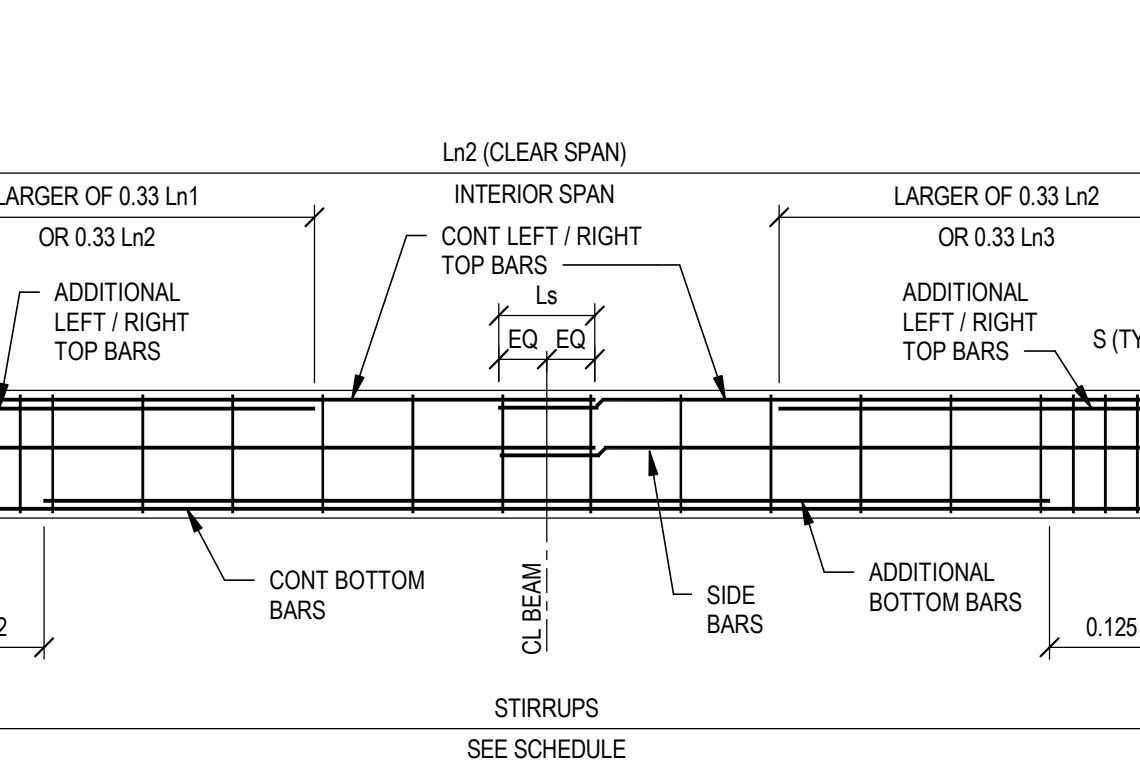
**TYPE 1**



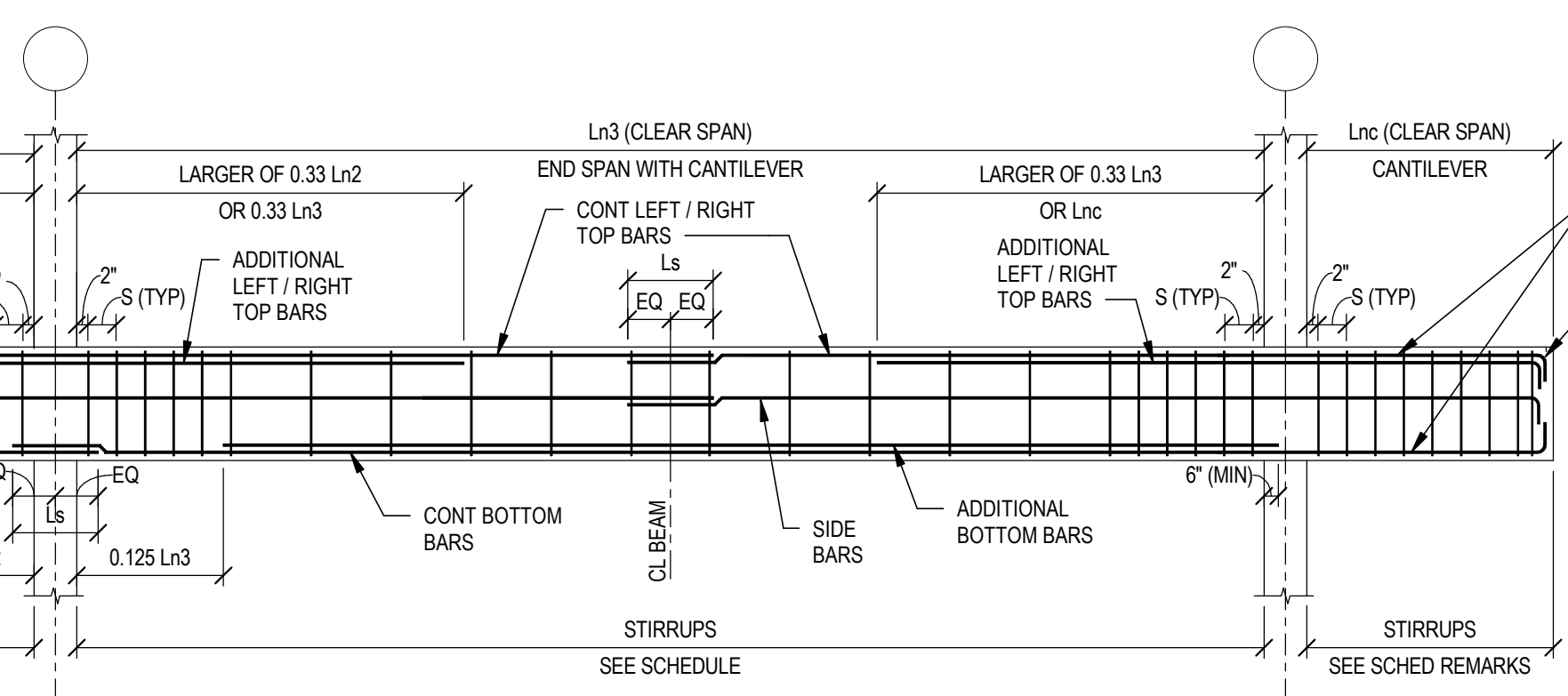
**TYPE 2**



**TYPE 3**

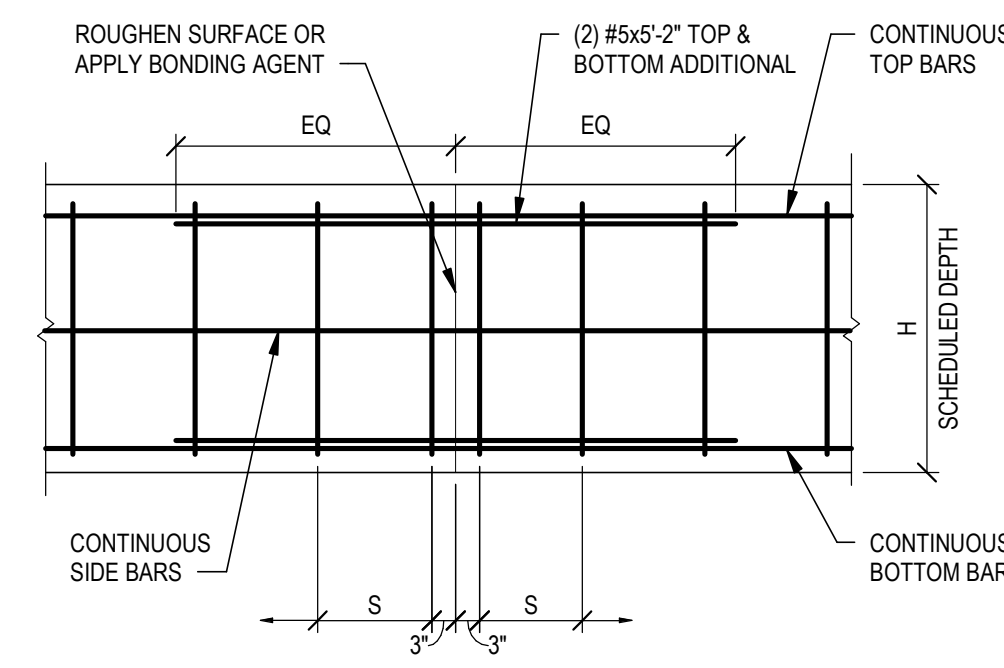


**TYPE 4**



**TYPE 5**

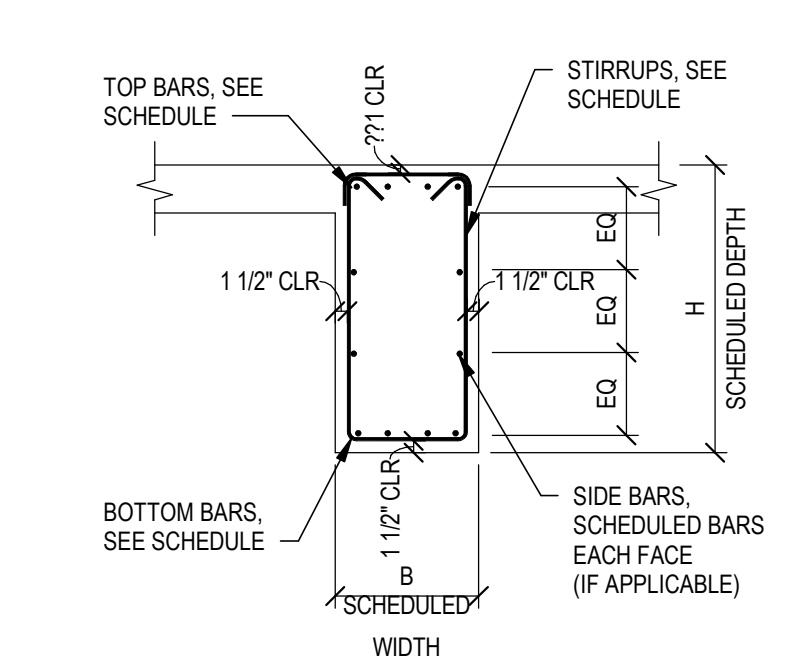
**TYPICAL CONCRETE BEAM ELEVATIONS**  
NTS



**NOTE:**  
LOCATE CONSTRUCTION JOINT WITHIN MIDDLE THIRD OF BEAM CLEAR SPAN. CONSTRUCTION JOINTS ARE NOT PERMITTED IN BEAMS THAT SUPPORT OTHER BEAMS UNLESS APPROVED BY THE ENGINEER OF RECORD.

**Note to Engineer/Detailer:**  
Bonding agent is specified in the specification; however, if only general notes are provided for the project, copy the bonding agent product information from the concrete master spec into the general notes.

**TYPICAL BEAM CONSTRUCTION JOINT**  
NTS



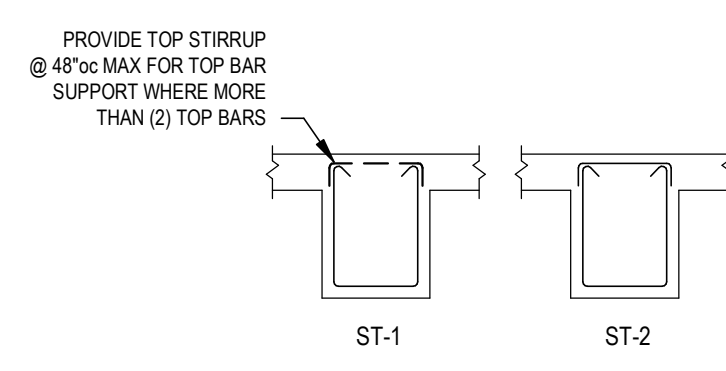
**Notes to Engineer/Detailer:**  
 \* ????: Review top bar cover requirements. Typical interior condition is 1 1/2" CLR minimum. For weather exposure, provide 2" CLR minimum.  
 \* Coordinate beam top bar cover with slab top bars. For one-way slabs, the slab top bars should sit on top of the beam top bars. For example, if #4 slab top bars have 2" top cover, the #4 beam stirrups should have 2" top cover so that the slab top bars sit on the beam top bars.  
 For two-way slabs, it is best practice to allow the inner layer top bars to sit on the beam top bars. For example, for #6 top bars with 1" clear cover to the outer layer, the beam top bars should have 2 1/2" clear cover and the stirrups should have 2" top cover to allow the inner layer top bars to sit on the beam top bars.  
 \* Provide separate top bar cover for girders if desired.

**TYPICAL CONCRETE BEAM SECTION**  
NTS

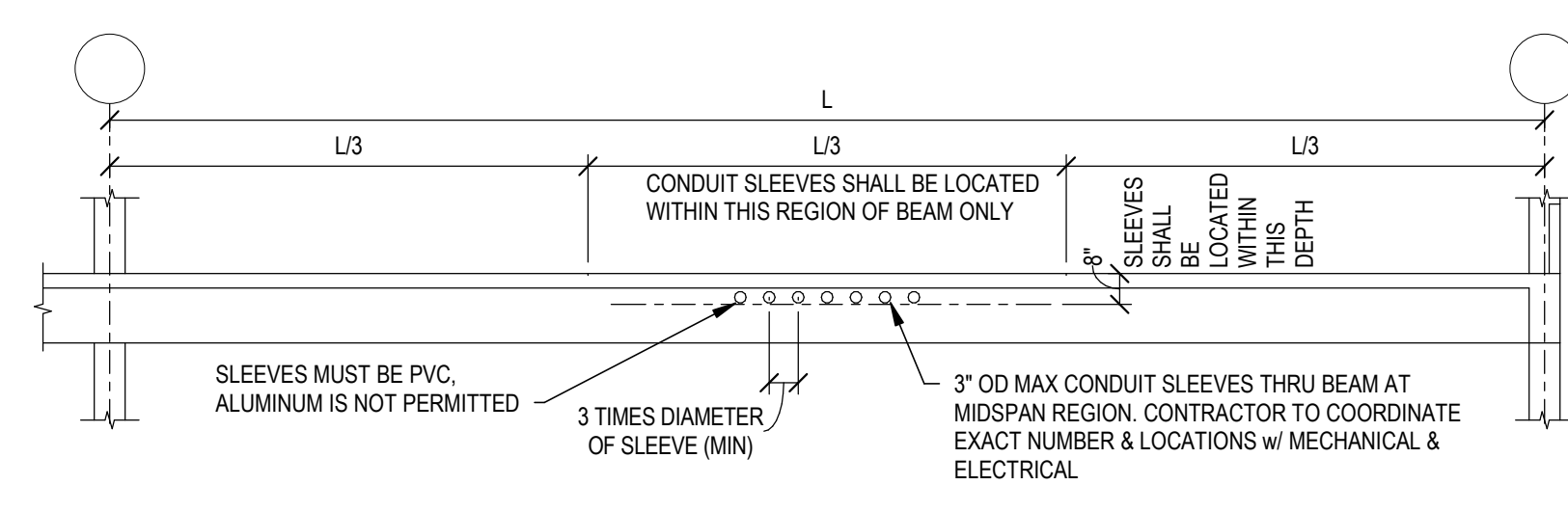
BEAM MARK	BEAM TYPE	SIZE (INCHES)		REINFORCEMENT								REMARKS	
		B	H	TOP BARS - LEFT		TOP BARS - RIGHT		BOTTOM BARS		SIDE BARS	STIRRUPS		
				CONT	ADD'L	CONT	ADD'L	CONT	ADD'L	EA FACE	SIZE		TYPE
CB-01	3	24	42	36	--	--	--	--	--	#4	ST-2	DEPTH OF BEAM VARIES, SEE PLAN	
CB-02	4	24	42	36	--	--	--	--	--	#4	ST-2	DEPTH OF BEAM VARIES, SEE PLAN	
CB-03	3	24	36	36	--	--	--	--	--	#4	ST-2	DEPTH OF BEAM VARIES, SEE PLAN	
CB-04	4	24	36	36	--	--	--	--	--	#4	ST-2	DEPTH OF BEAM VARIES, SEE PLAN	

**NOTES:**  
 1. REFER TO TYPICAL CONCRETE BEAM ELEVATIONS FOR BEAM TYPES AND ASSOCIATED DETAILING REQUIREMENTS.  
 2. BARS INDICATED WITH AN ASTERISK (\*) IN BEAM SCHEDULE ARE TO BE PLACED IN TWO LAYERS.  
 3. REFER TO BEAM REMARKS FOR CANTILEVER STIRRUP REQUIREMENTS AND UPTURNED BEAM CONDITIONS.

**ABBREVIATIONS:**  
 LE = LEFT END  
 RE = RIGHT END  
 EE = EACH END  
 FAB = FROM ADJACENT BEAM  
 BAL = BALANCE OF STIRRUPS OVER REMAINING BEAM LENGTH



**TYPICAL STIRRUP TYPES**  
NTS



**TYPICAL CONDUIT SLEEVE DETAIL**  
NTS

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
 MODELER: Author  
 CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION  
 NO DATE DESCRIPTION

PROJECT NUMBER:  
**2312.95**

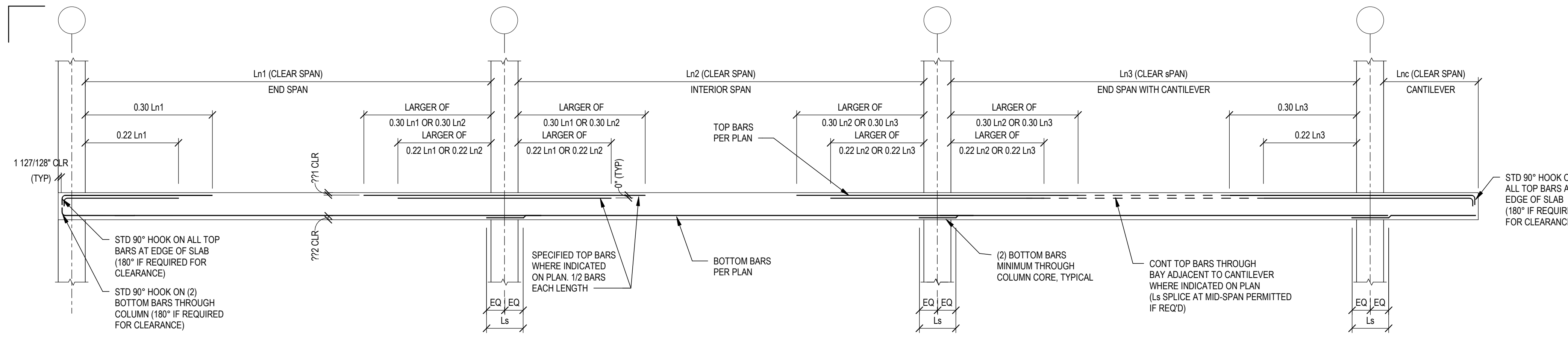
SHEET NAME:  
**CONCRETE SLAB & TYPICAL DETAILS**

DATE:  
**Issue Date**

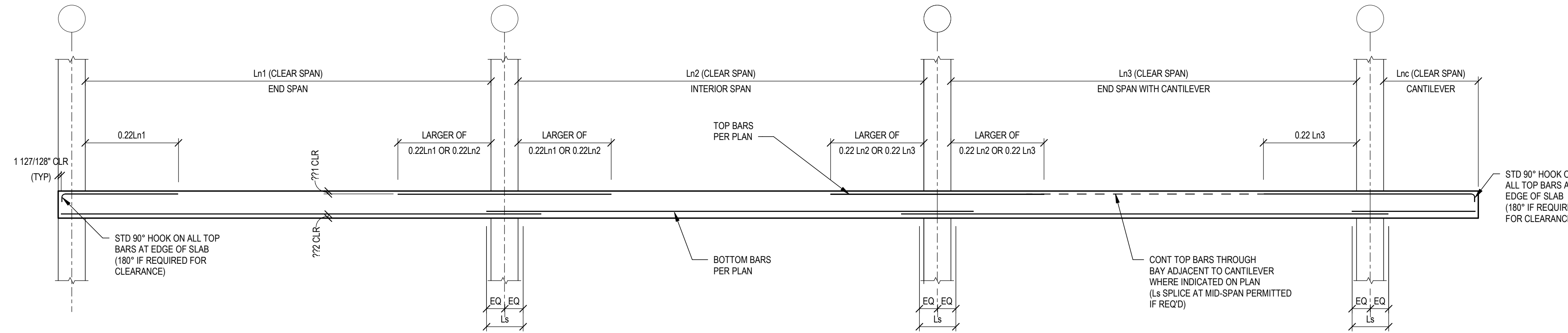
SHEET:  
**S322**



PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION

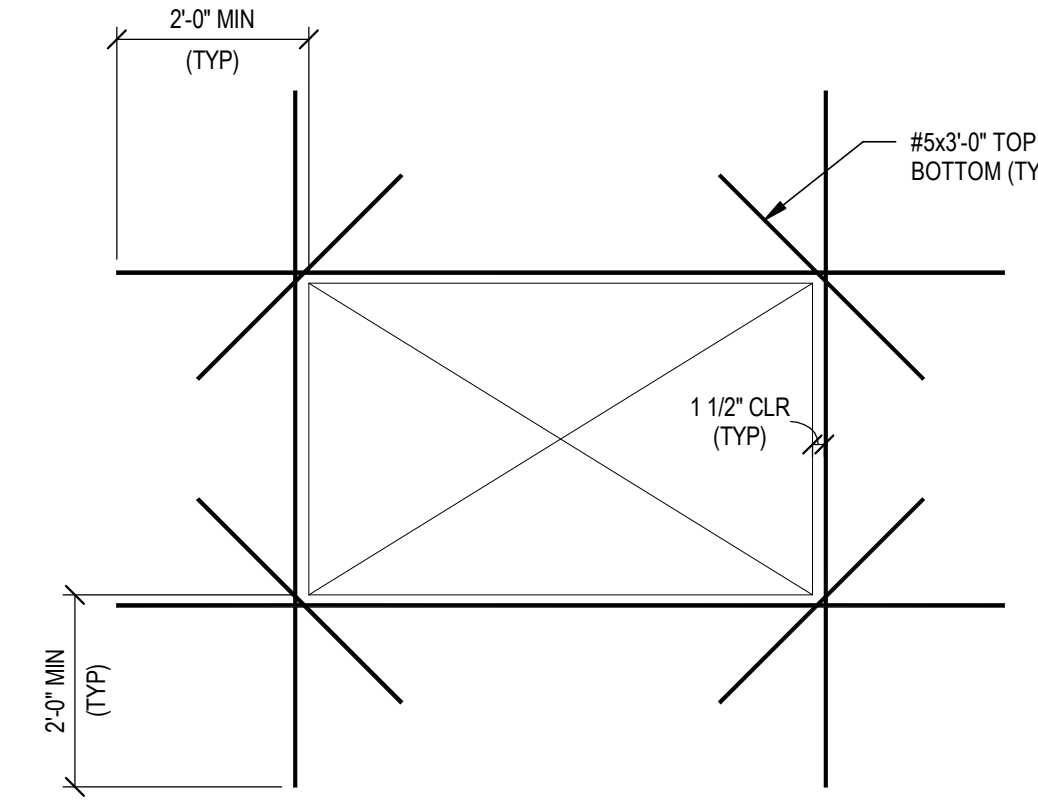


COLUMN STRIP



MIDDLE STRIP

- TWO-WAY SLAB REINFORCEMENT NOTES:**
1. ALL SLAB REINFORCEMENT SHALL HAVE THE MINIMUM LENGTHS NOTED ON ELEVATIONS UNLESS SPECIFIC LENGTHS ARE INDICATED ON PLAN. DO NOT SCALE BARS SHOWN ON PLAN.
  2. ALTERNATE PLACEMENT OF LONG & SHORT BARS. IF THERE ARE AN UNEVEN NUMBER OF BARS IN A STRIP, PROVIDE MORE LONG BARS THAN SHORT BARS. SEE PLAN FOR INNER & OUTER LAYER BAR ORIENTATION.
  3. ADDITIONAL COLUMN & MIDDLE STRIP BOTTOM BARS TO BE DISTRIBUTED & SPACED EQUALLY WITHIN THE RESPECTIVE STRIPS SHOWN ON THE PLANS, UNLESS NOTED OTHERWISE.
  4. PROVIDE STANDARD 90° HOOK ON ALL BARS WHERE INTERRUPTED BY AN OPENING (180° HOOK IF REQUIRED FOR CLEARANCE). SEE TYPICAL SLAB OPENING DETAIL FOR ADDITIONAL REQUIREMENTS.
  5. A MINIMUM OF (2) BOTTOM BARS IN EACH DIRECTION SHALL BE LOCATED OVER COLUMNS.

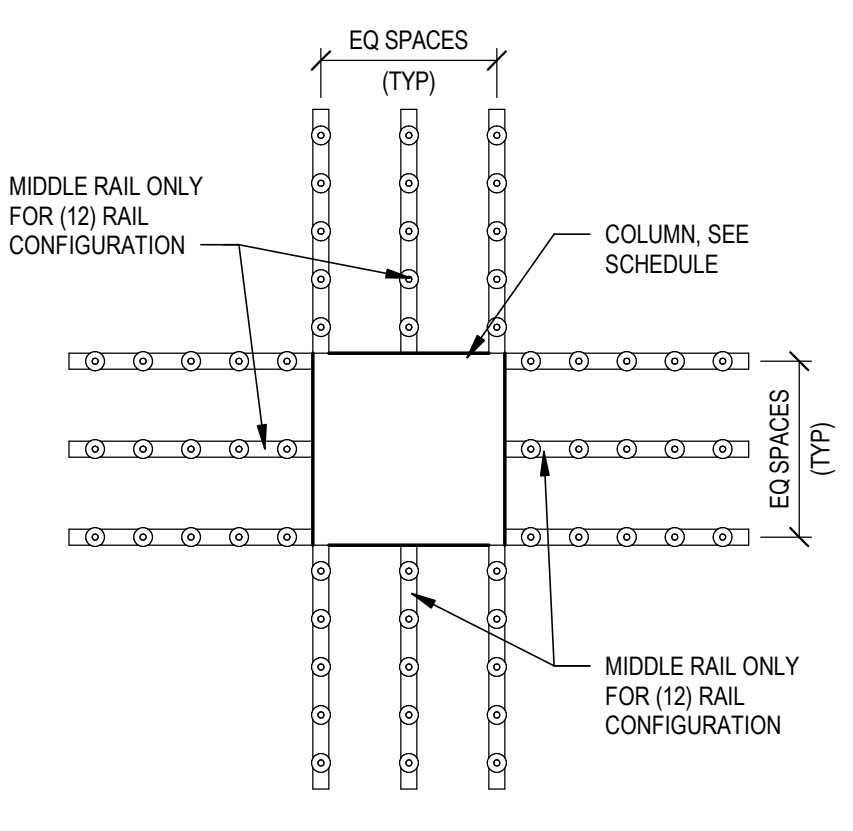


MAX DIMENSION	REINFORCING
12" TO 18"	(1) #5 EA SIDE
18" TO 2'-6"	(1) #5 TOP & BOTTOM, EA SIDE
2'-6" & LARGER	(2) #5 TOP & BOTTOM, EA SIDE

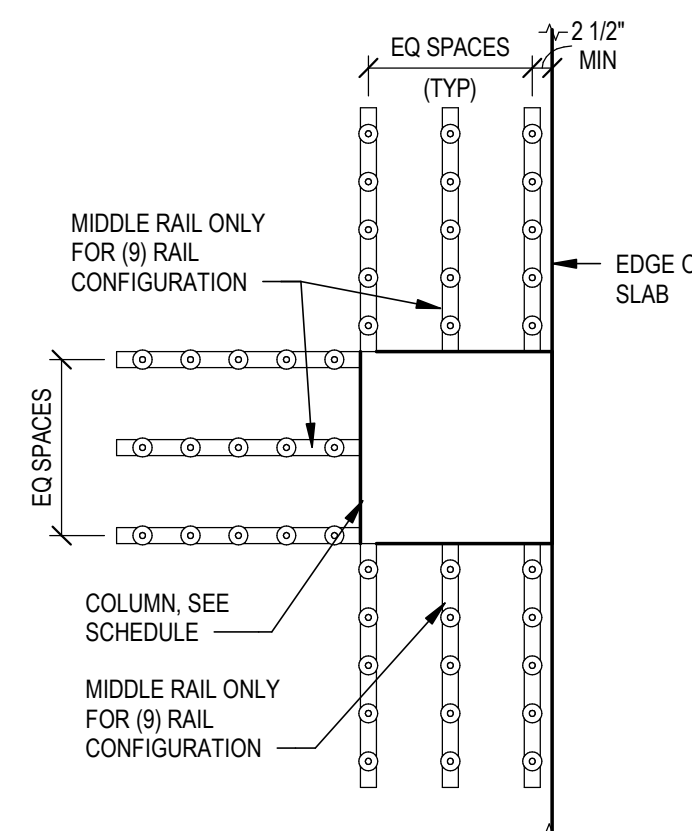
**NOTES:**

1. ALL OPENINGS LARGER THAN 12" SHALL BE TRIMMED AS SHOWN.
2. THESE BARS ARE IN ADDITION TO REBAR SHOWN ON PLANS.

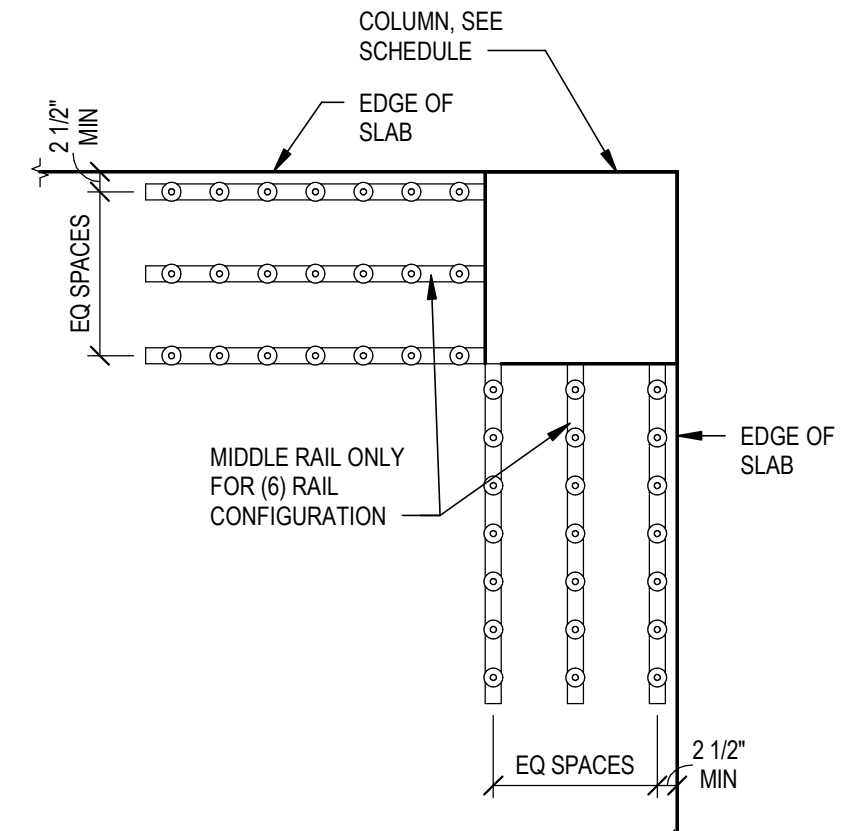
TYPICAL TRIM BARS FOR INTERIOR OPENINGS IN SLAB NTS



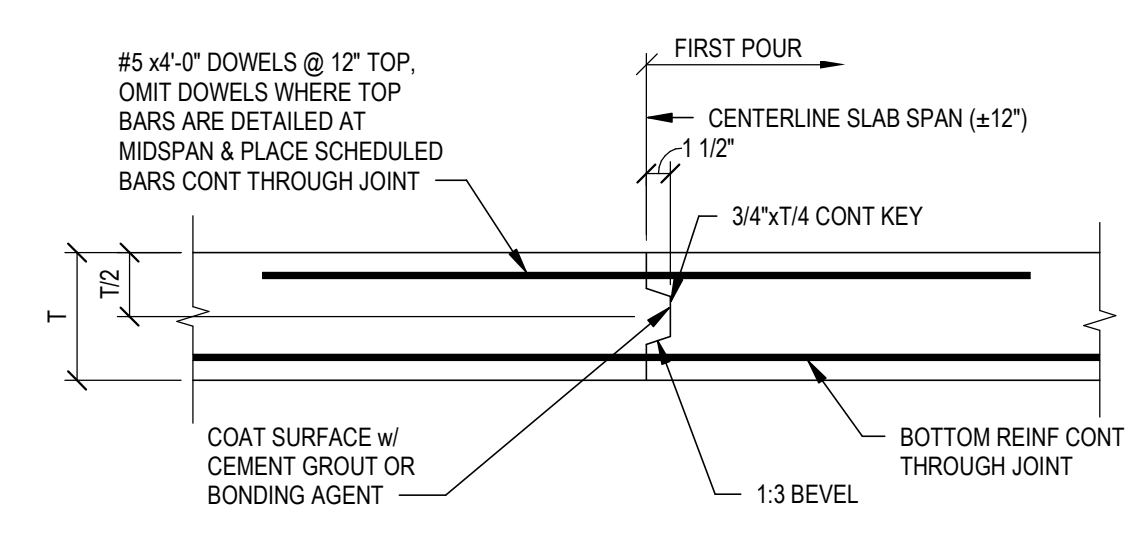
STUDRAIL TYPE A NTS



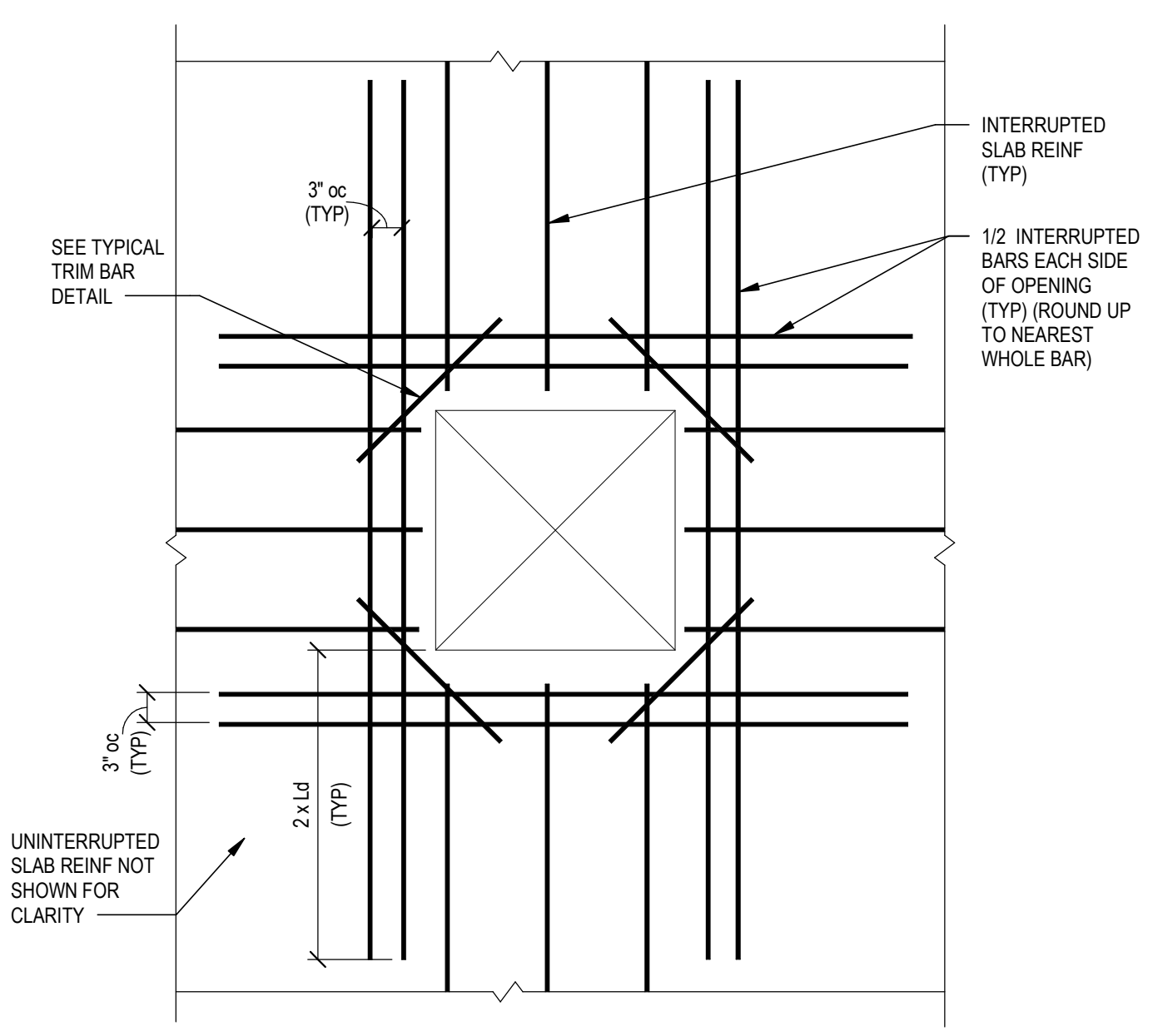
STUDRAIL TYPE B NTS



STUDRAIL TYPE C NTS



TYPICAL CONSTRUCTION JOINTS IN SOLID SLABS NTS

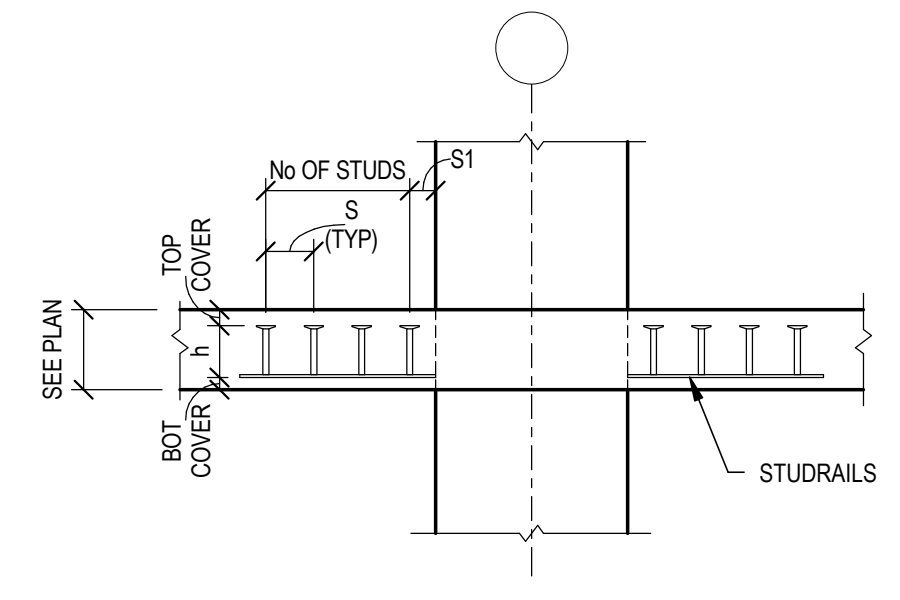


- NOTES:**
1. ALL SLAB OPENINGS WITH WIDTH OR LENGTH GREATER THAN 12" THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MUST BE SUBMITTED TO & APPROVED BY ENGINEER OF RECORD.
  2. SLAB OPENINGS WITH WIDTH OR LENGTH LESS THAN 12" DO NOT REQUIRE SPECIAL REINFORCING.
  3. HOOK ENDS OF ADDITIONAL REINFORCING BARS AT SLAB EDGE IF SLAB EDGE IS LESS THAN 2 x Ld FROM OPENING.
  4. ALL SLAB OPENINGS, INCLUDING ALL RISERS PENETRATIONS SHALL BE FORMED OR SLEEVED PRIOR TO SLAB POUR.

TYPICAL SLAB OPENING DETAIL NTS

- STUDRAIL SHEAR REINFORCING NOTES:**
1. STUDRAILS SHALL CONFORM TO ACI 318 & ACI-ASCE COMMITTEE 421 REQUIREMENTS.
  2. SHEAR STUDS USED IN THE MANUFACTURE OF STUDRAILS SHALL CONFORM TO LOW CARBON STEEL IN ACCORDANCE WITH ASTM A108 HAVING PROPERTIES AS FOLLOWS:
    - A. YIELD STRENGTH = 50,000 PSI MINIMUM
    - B. TENSILE STRENGTH = 60,000 PSI MINIMUM
    - C. ELONGATION IN 2" = 20% MINIMUM
    - D. REDUCTION IN AREA = 50% MINIMUM
    - E. HEAD/SHANK AREA = 10
  3. THE STUDS SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1
  4. ALL STUDRAILS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
  5. INSTALLATION INSTRUCTIONS:
    - A. SEE PLANS FOR COLUMNS THAT REQUIRE STUDRAIL REINFORCEMENT. REFER TO LEGEND ON PLAN FOR NOTATION.
    - B. SEE PLANS FOR STUDRAIL MARK & SEE SCHEDULE FOR NUMBER OF STUDS, SIZE, & PLACEMENT PATTERN.
    - C. STUDRAILS BEGIN AT COLUMN FACES.
    - D. STUDRAILS SHALL BE SPACED EVENLY ALONG COLUMN FACES.
    - E. STUDRAILS SHALL BE PLACED MINIMUM 2 1/2" FROM EDGES OF SLAB.
    - F. STUDRAILS MUST BE INSTALLED WITH STUDS VERTICAL.

TYPICAL STUDRAIL LAYOUT DETAIL NTS



TYPICAL PIGGYBACKING OF STUDS FOR HEIGHTS OVER 10" NTS

MARK	STUD ø x HEIGHT (h)	No OF RAILS PER COLUMN	No OF STUDS PER RAIL	FIRST STUD SPACING (S1)	TYP STUD SPACING (S)	STUDRAIL TYPE
1	??"ø x ??"	??	?	??"	?"	?
2						
3						
4						

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

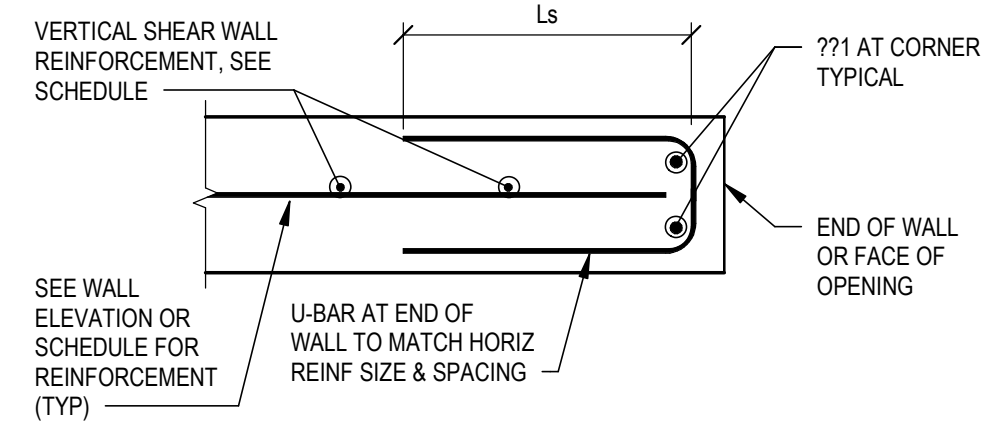
SHEET NAME:  
**CONCRETE SLAB & TYPICAL DETAILS**

DATE:  
**Issue Date**

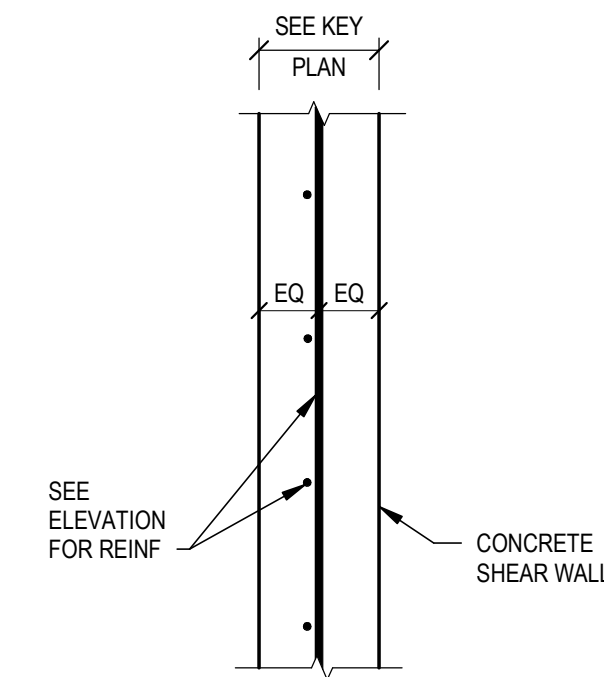
SHEET:  
**S323**

STAMP:

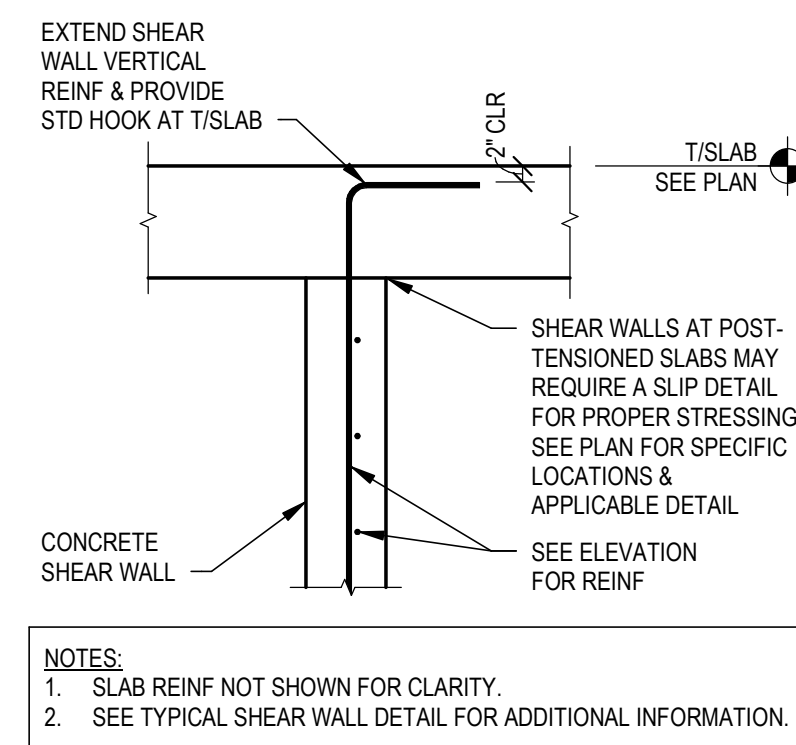
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



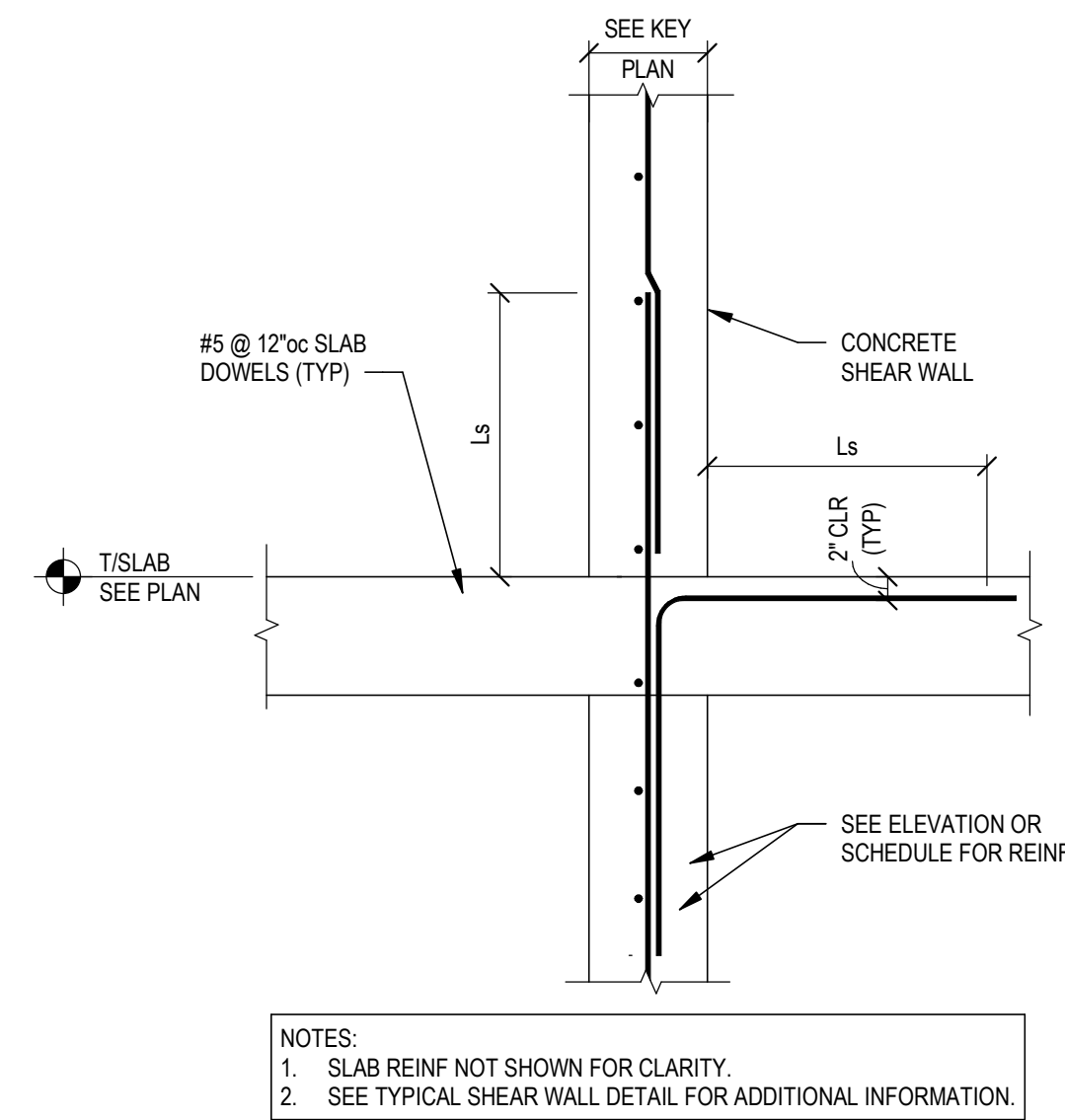
**TYPICAL SHEAR WALL  
END REINFORCEMENT DETAIL**  
NTS



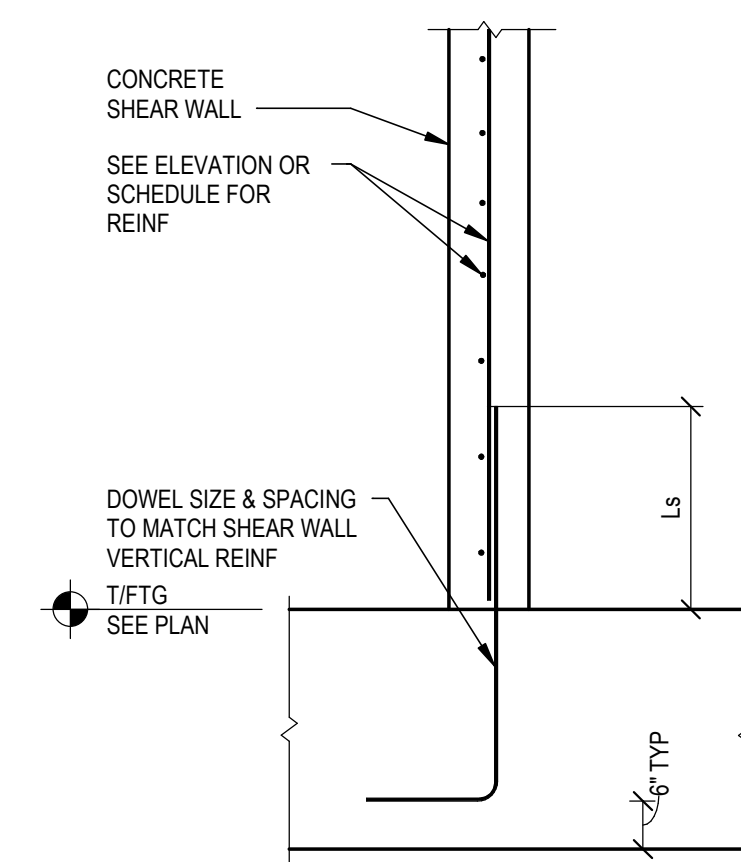
**TYPICAL SHEAR WALL DETAIL**  
NTS



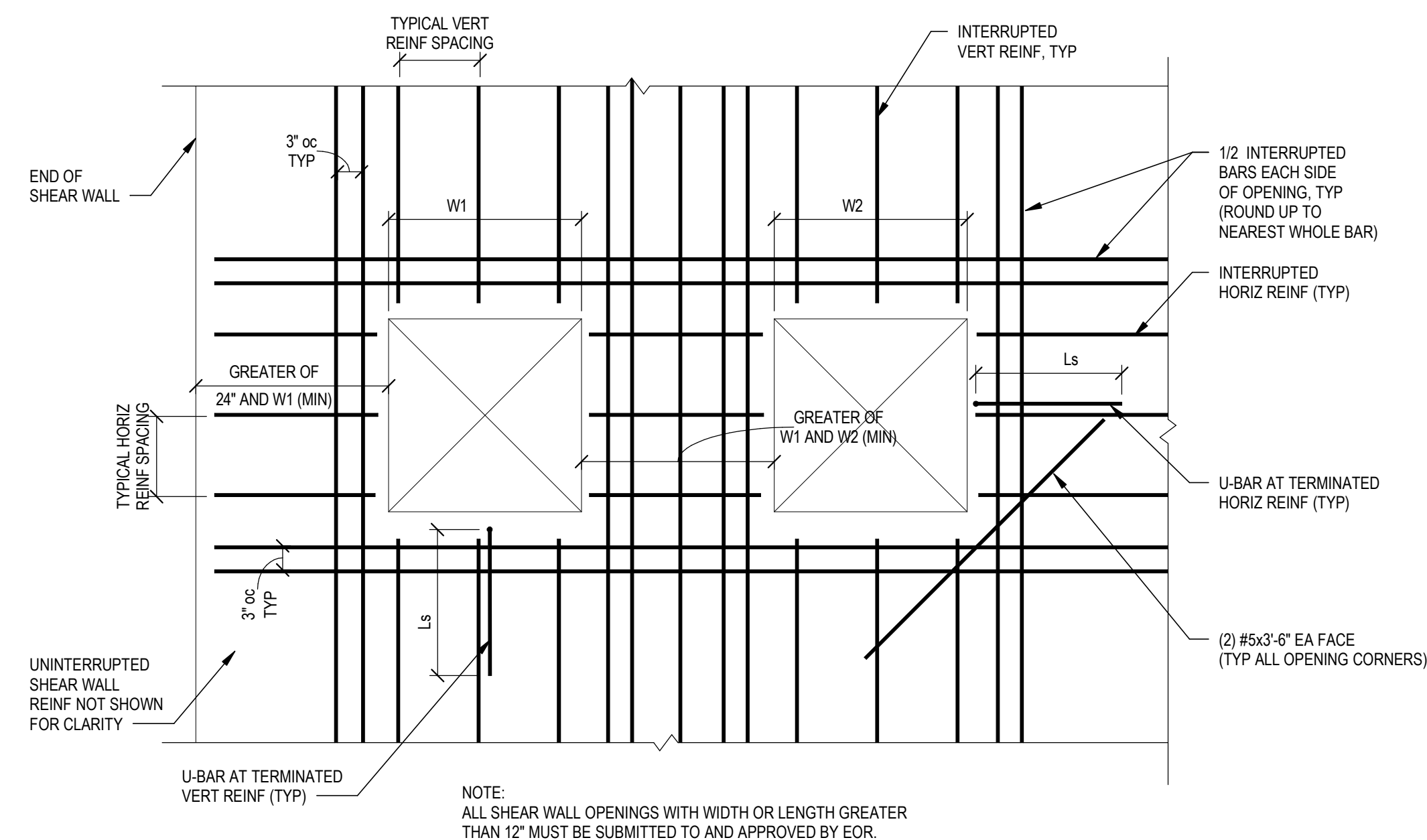
**TYPICAL TOP OF CONCRETE SHEAR WALL  
AT CONCRETE SLAB**  
NTS



**TYPICAL CONCRETE SHEAR WALL  
CONSTRUCTION JOINT AT CONCRETE SLAB  
DETAIL**  
NTS



**TYPICAL BASE OF CONCRETE SHEAR WALL**  
NTS



**TYPICAL SHEAR WALL OPENING DETAIL**  
NTS

NOTES:  
1. SEE TYPICAL SHEAR WALL DETAIL FOR ADDITIONAL INFORMATION.  
2. FOUNDATION REINFORCING NOT SHOWN FOR CLARITY.

NOTE:  
ALL SHEAR WALL OPENINGS WITH WIDTH OR LENGTH GREATER THAN 12" MUST BE SUBMITTED TO AND APPROVED BY EOR.

**PARAMOUNT  
WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

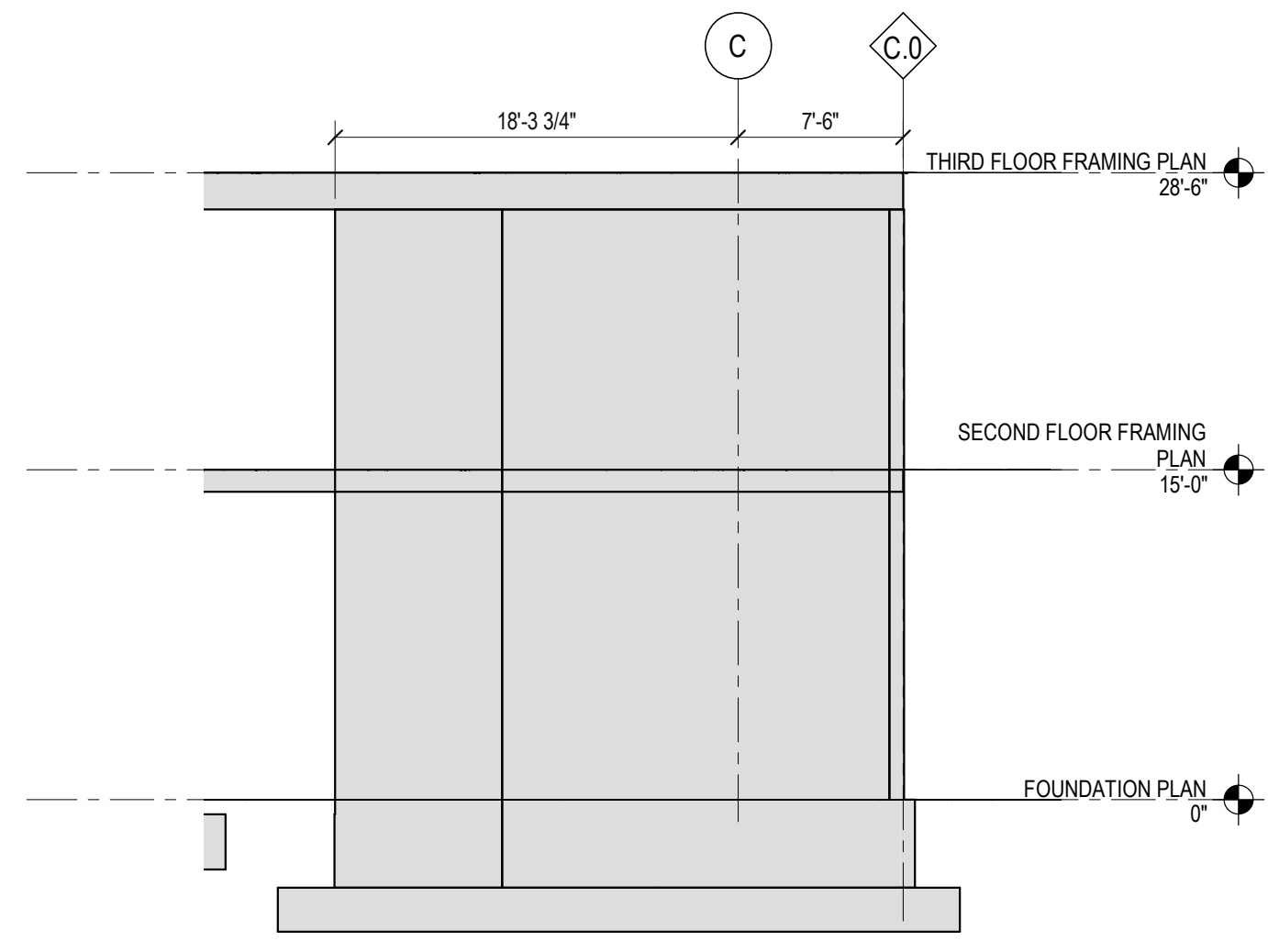
SHEET NAME:  
**CONCRETE SHEAR  
WALL TYPICAL  
DETAILS**

DATE:  
**Issue Date**

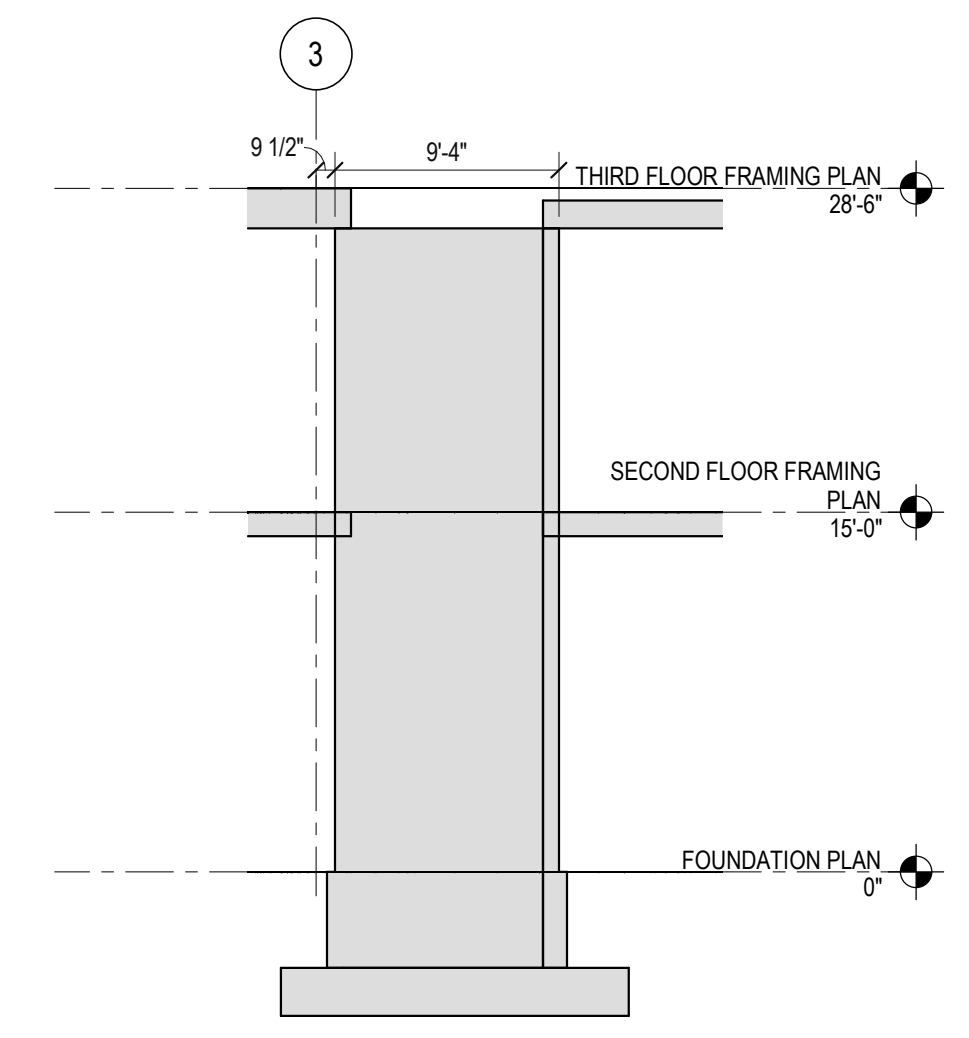
SHEET:  
**S331**

STAMP:

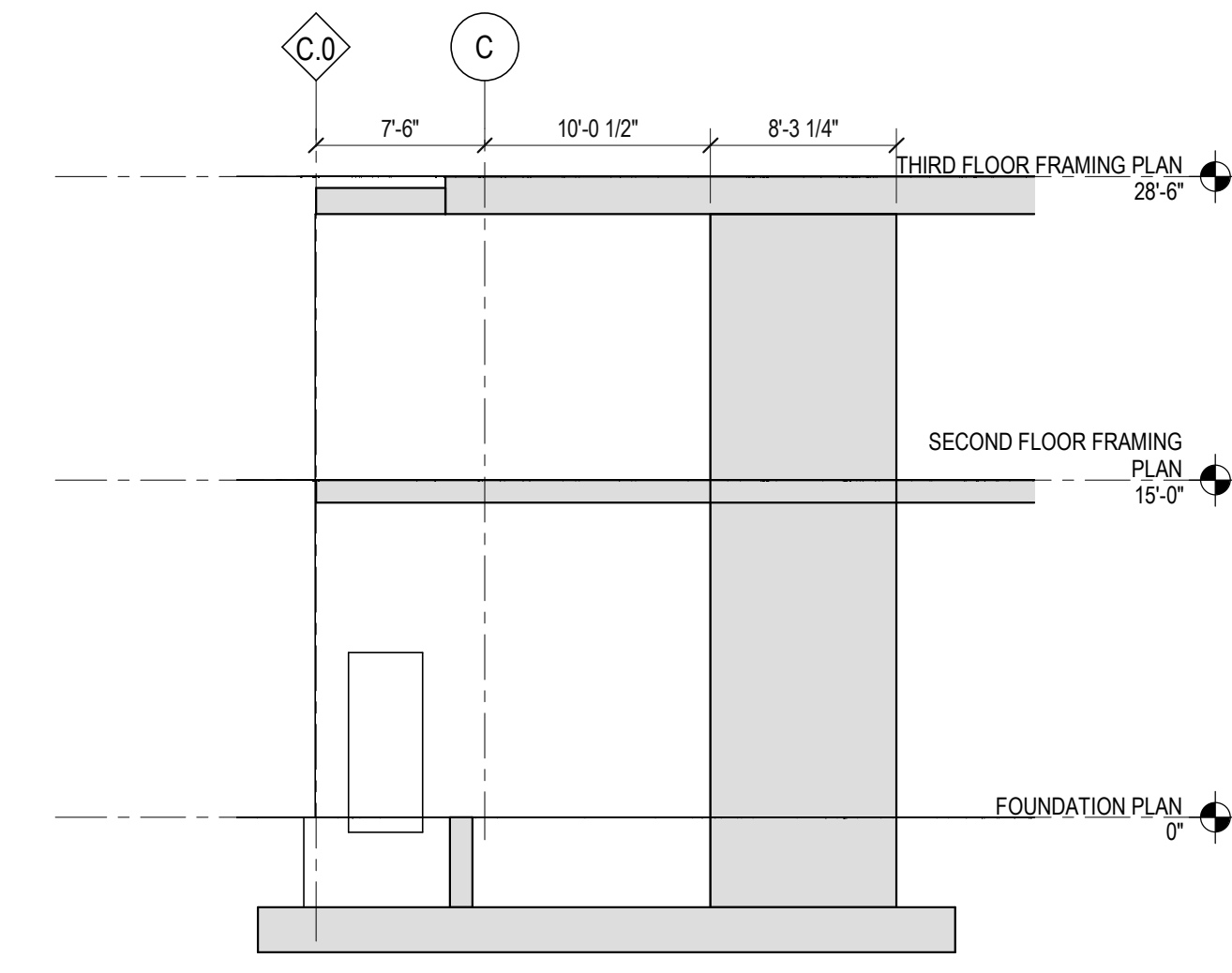
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



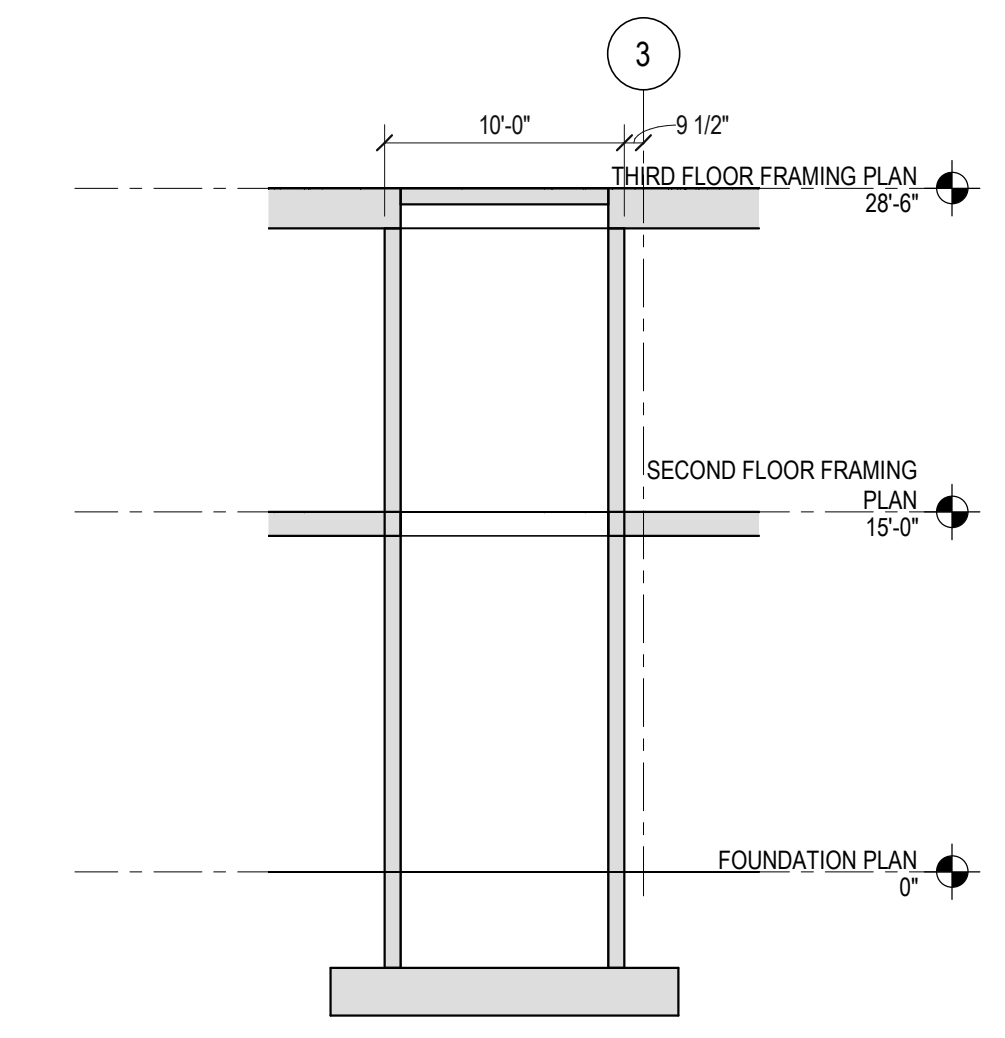
SN STAIR NORTH SHEAR WALL ELEVATION 1  
1/8" = 1'-0" S332



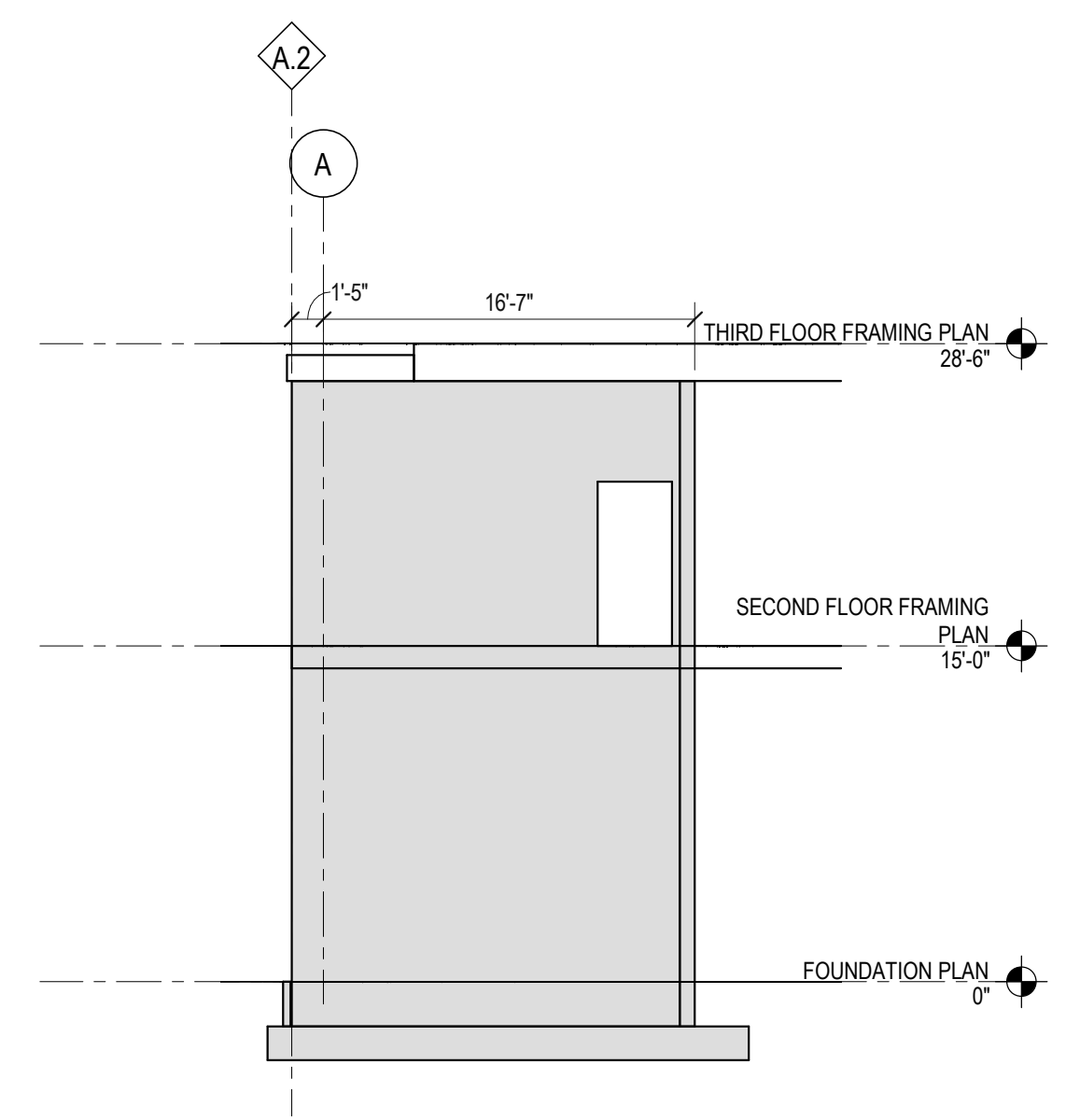
SN STAIR WEST SHEAR WALL ELEVATION 2  
1/8" = 1'-0" S332



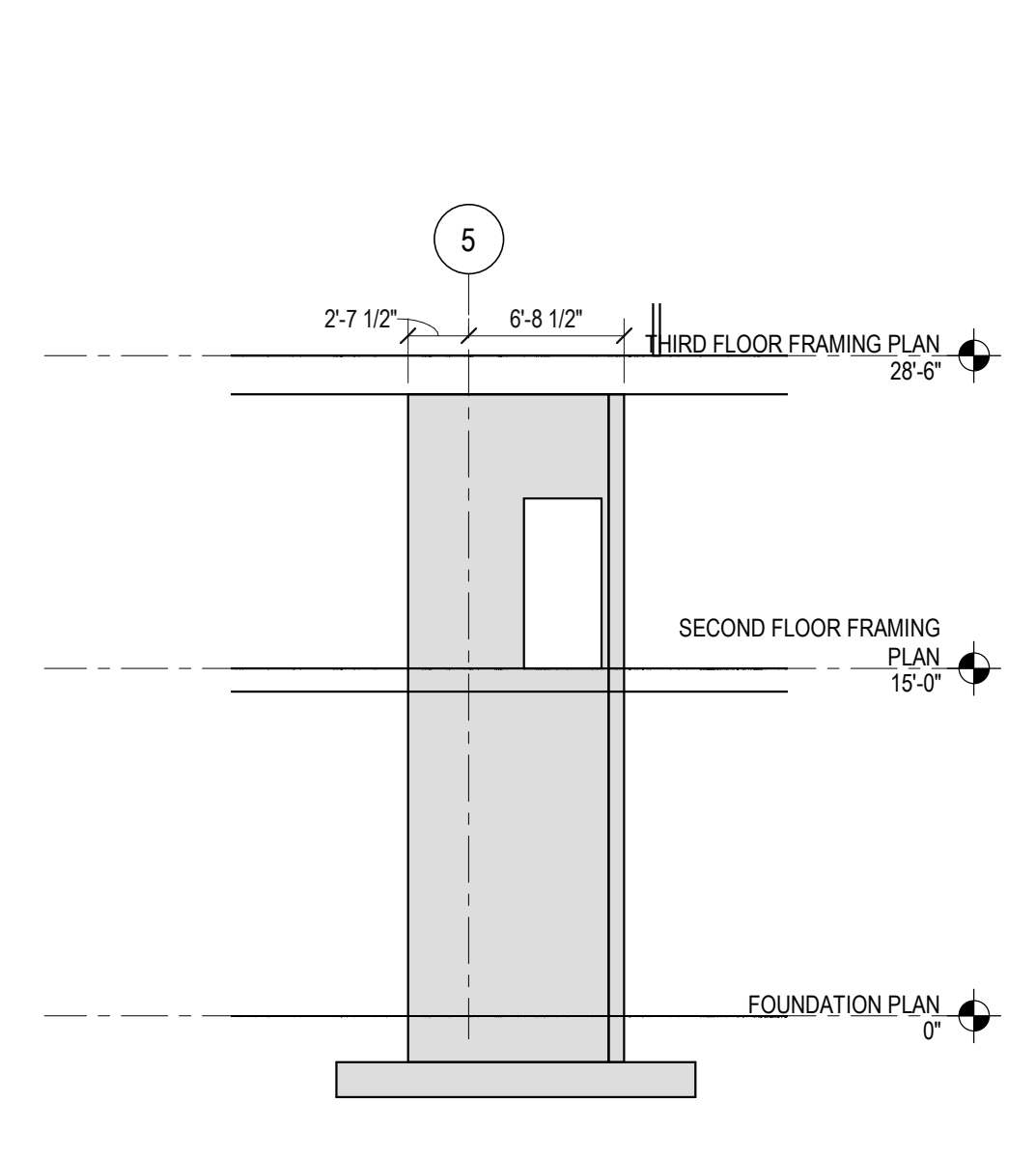
SN STAIR SOUTH SHEAR WALL ELEVATION 3  
1/8" = 1'-0" S332



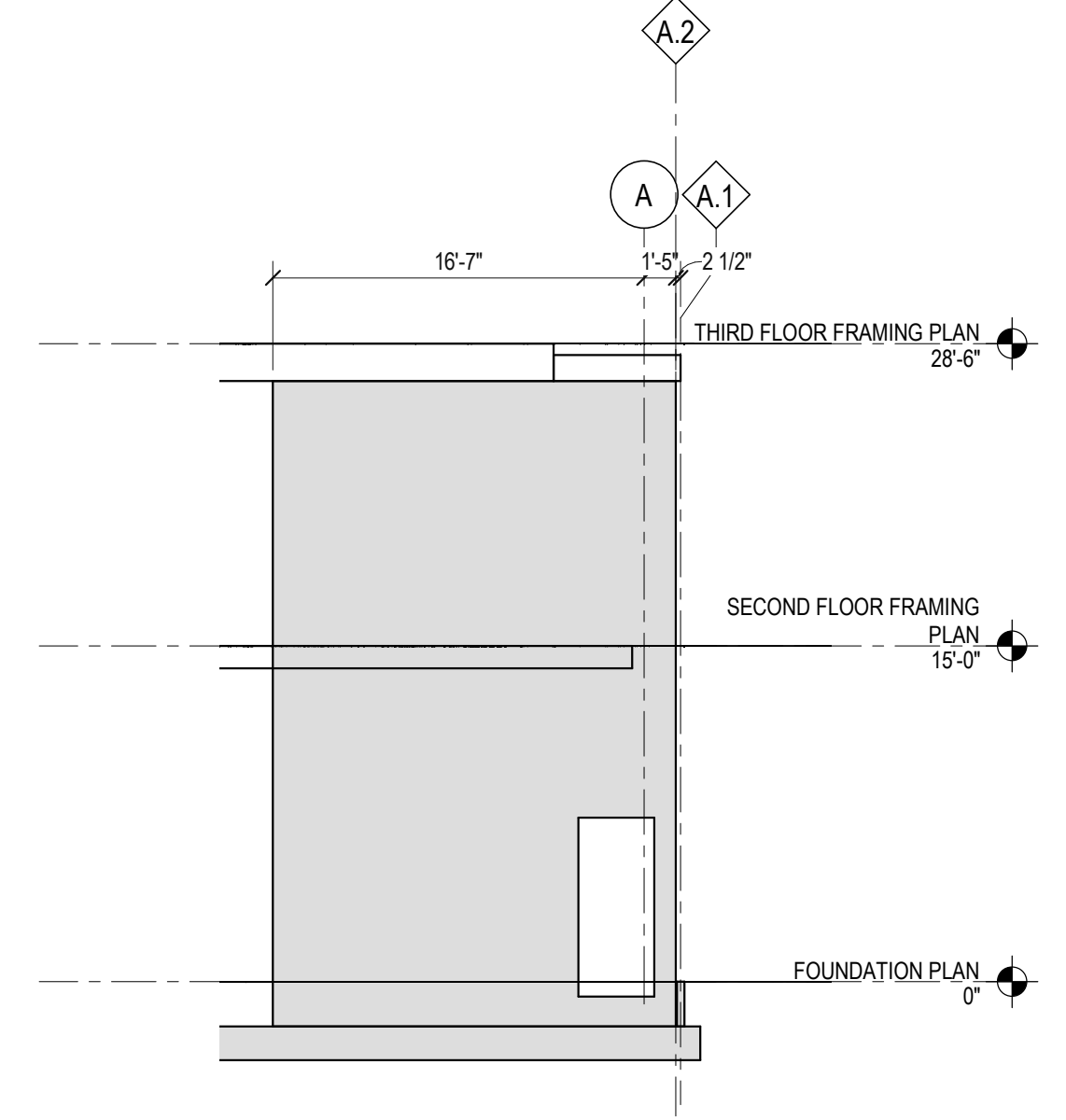
SN STAIR EAST SHEAR WALL ELEVATION 4  
1/8" = 1'-0" S332



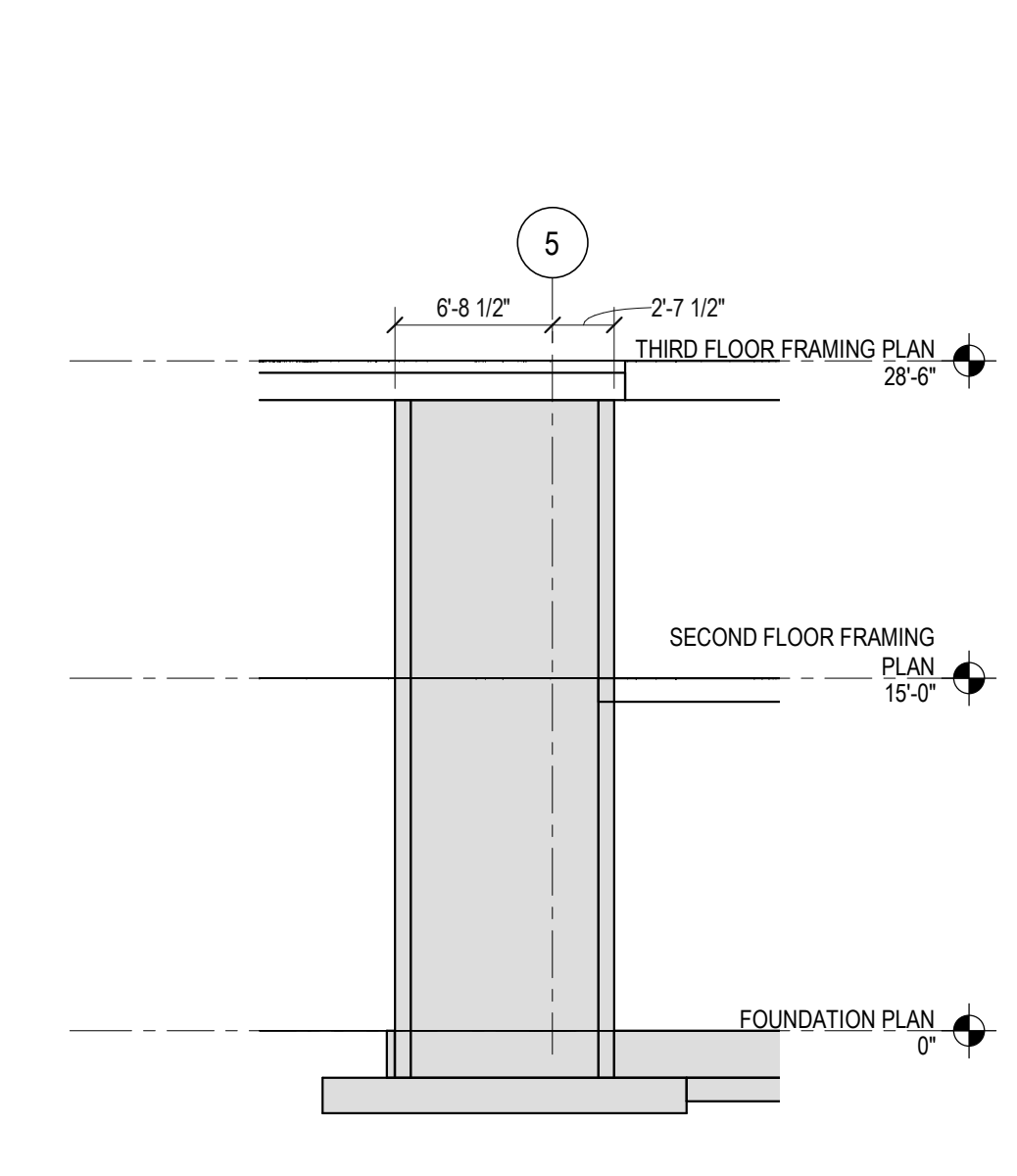
SE STAIR NORTH SHEAR WALL ELEVATION 5  
1/8" = 1'-0" S332



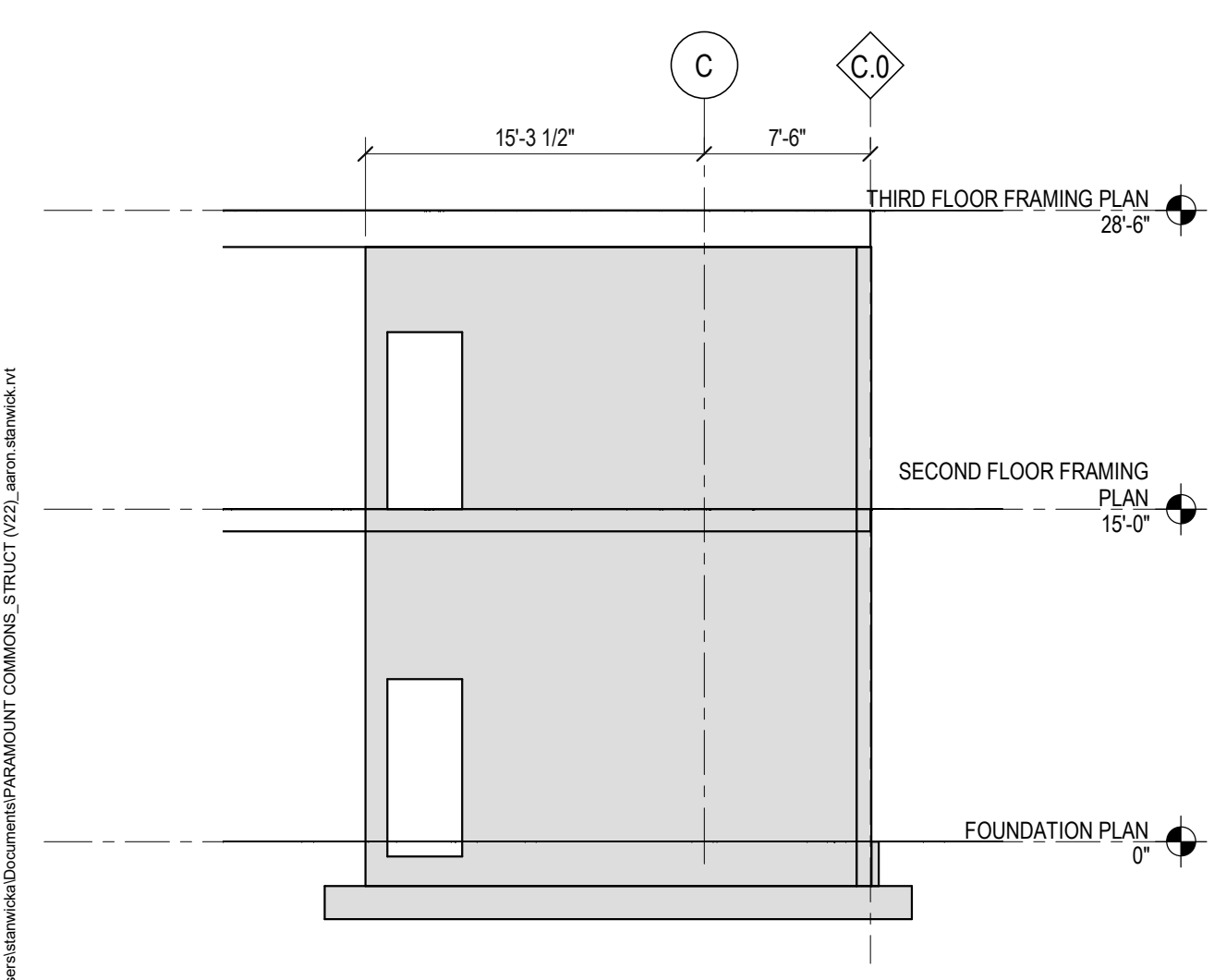
SE STAIR WEST SHEAR WALL ELEVATION 6  
1/8" = 1'-0" S332



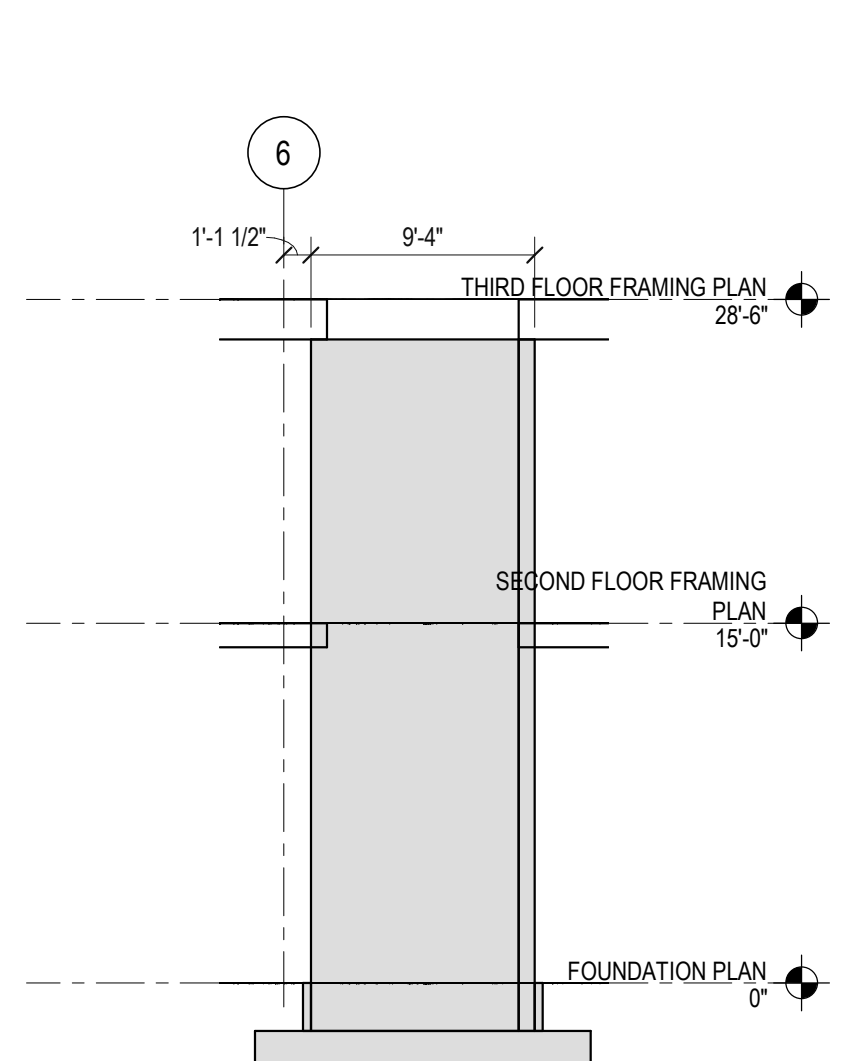
SE STAIR SOUTH SHEAR WALL ELEVATION 7  
1/8" = 1'-0" S332



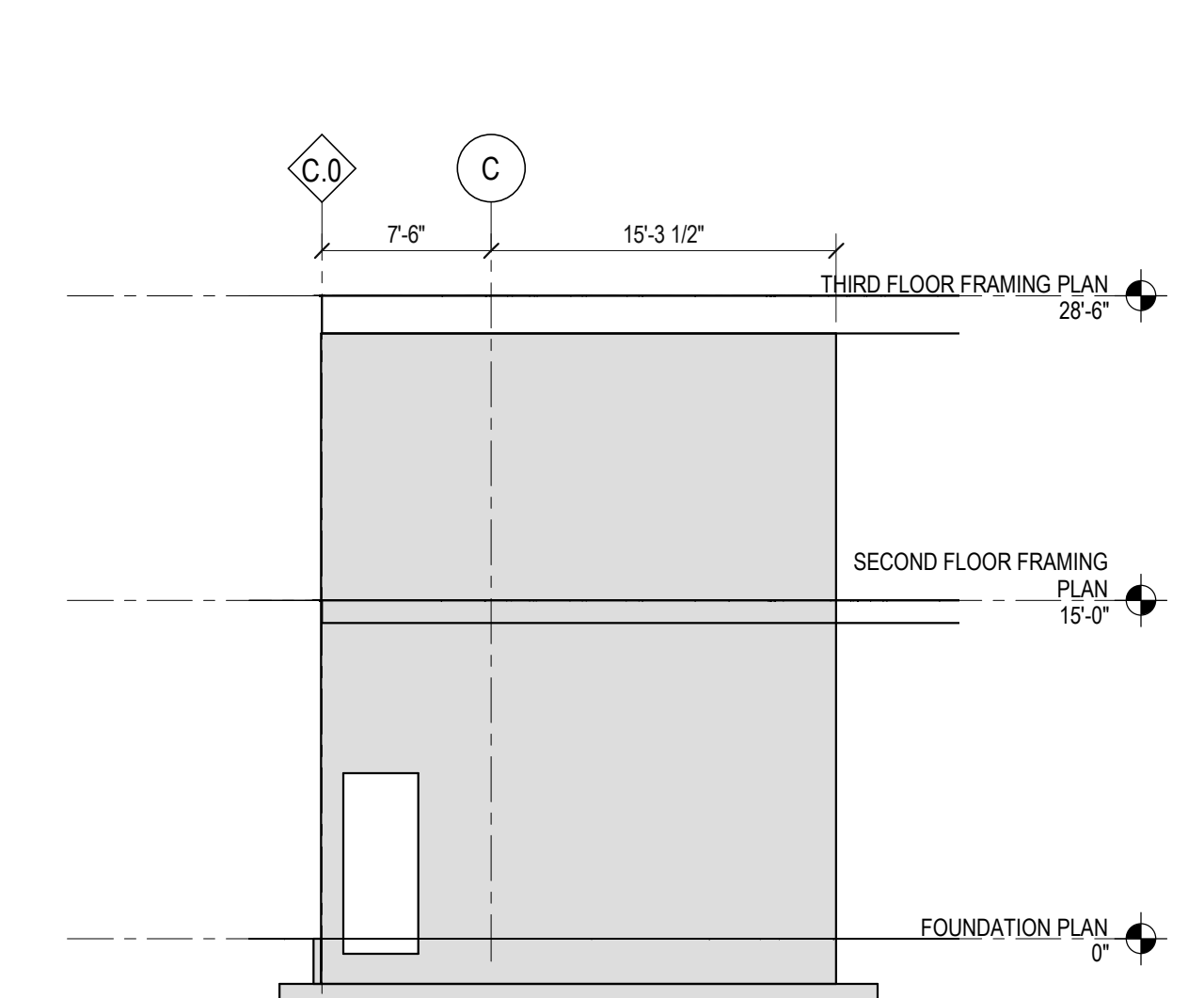
SE STAIR EAST SHEAR WALL ELEVATION 8  
1/8" = 1'-0" S332



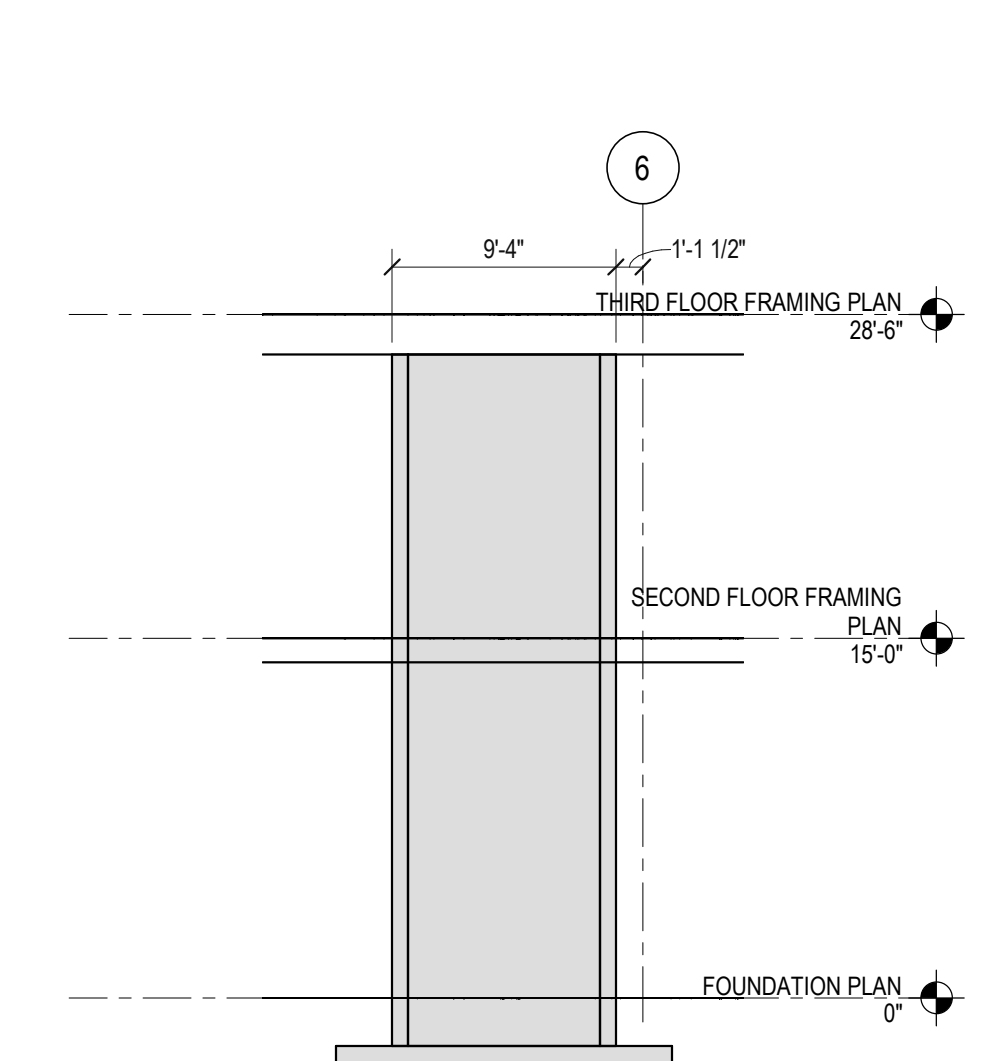
SS STAIR NORTH SHEAR WALL ELEVATION 9  
1/8" = 1'-0" S332



SS STAIR WEST SHEAR WALL ELEVATION 10  
1/8" = 1'-0" S332



SS STAIR SOUTH SHEAR WALL ELEVATION 11  
1/8" = 1'-0" S332



SS STAIR EAST SHEAR WALL ELEVATION 12  
1/8" = 1'-0" S332

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION

NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**CONCRETE SHEAR WALL ELEVATIONS**

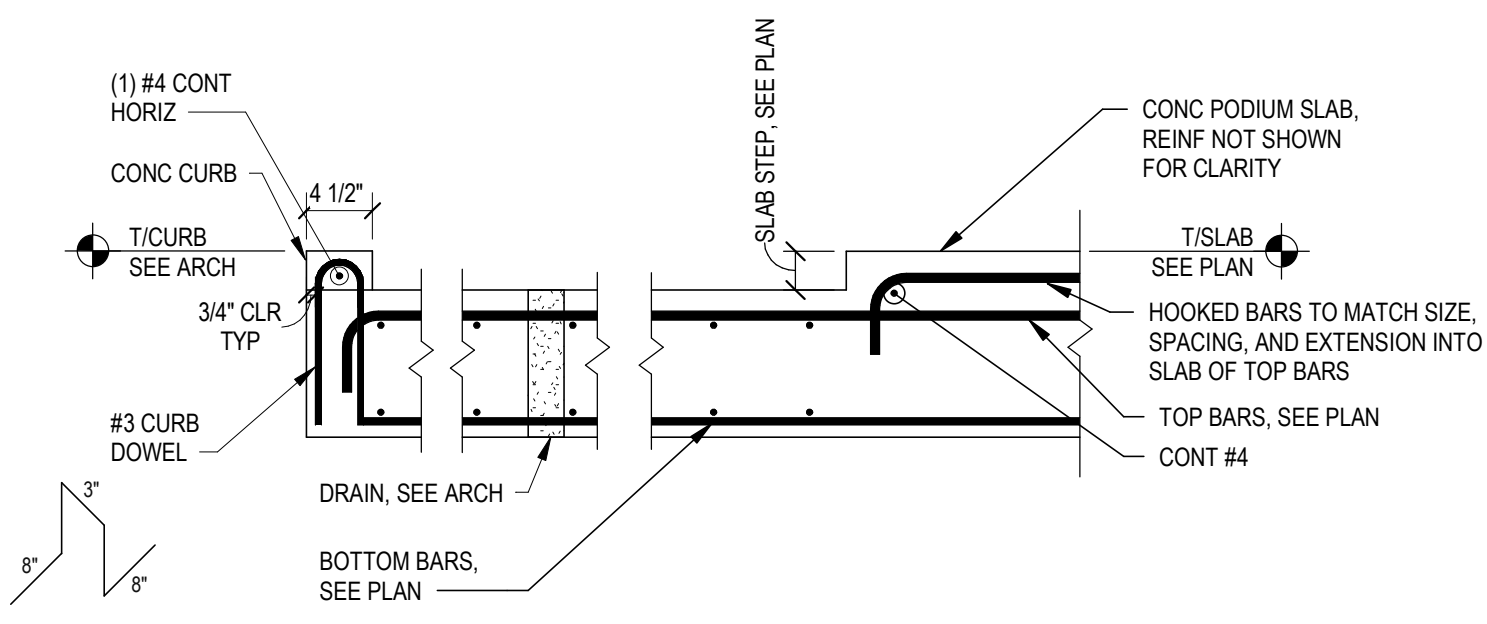
DATE:  
**Issue Date**

SHEET:  
**S332**

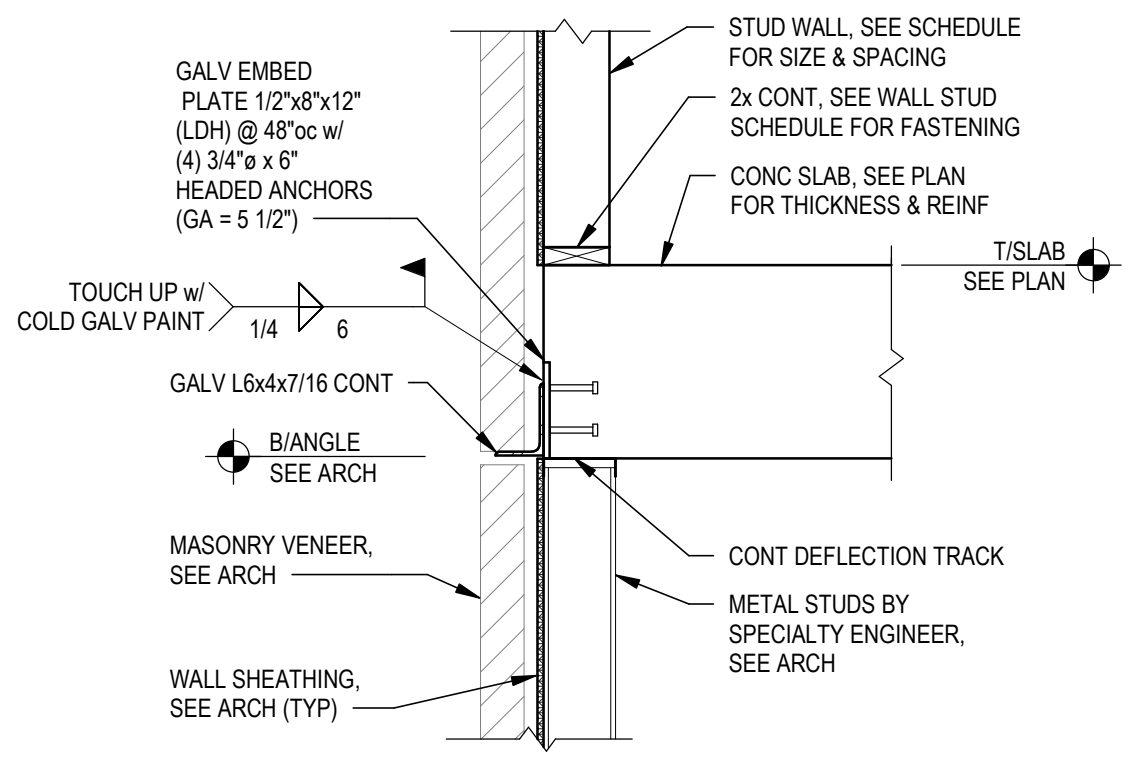
COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.

STAMP:

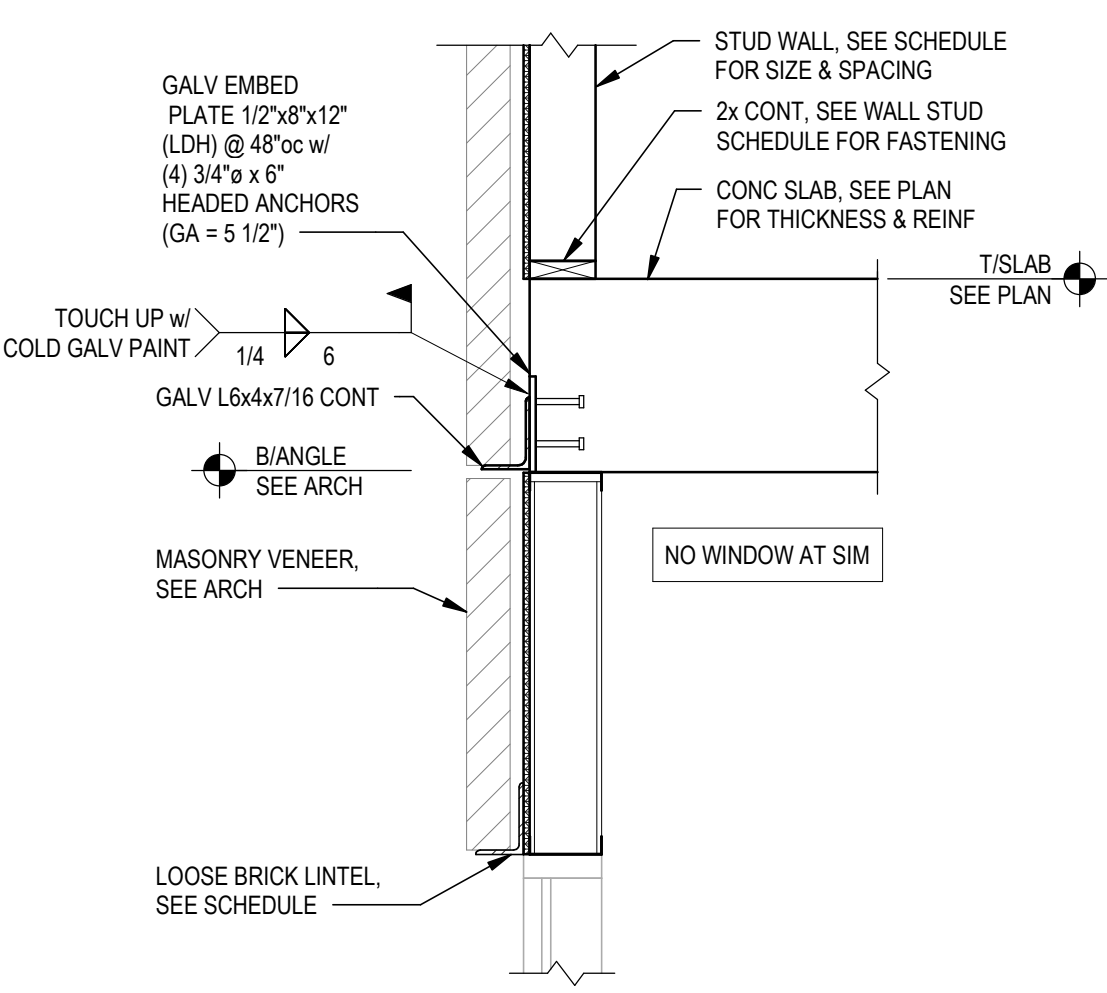
PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



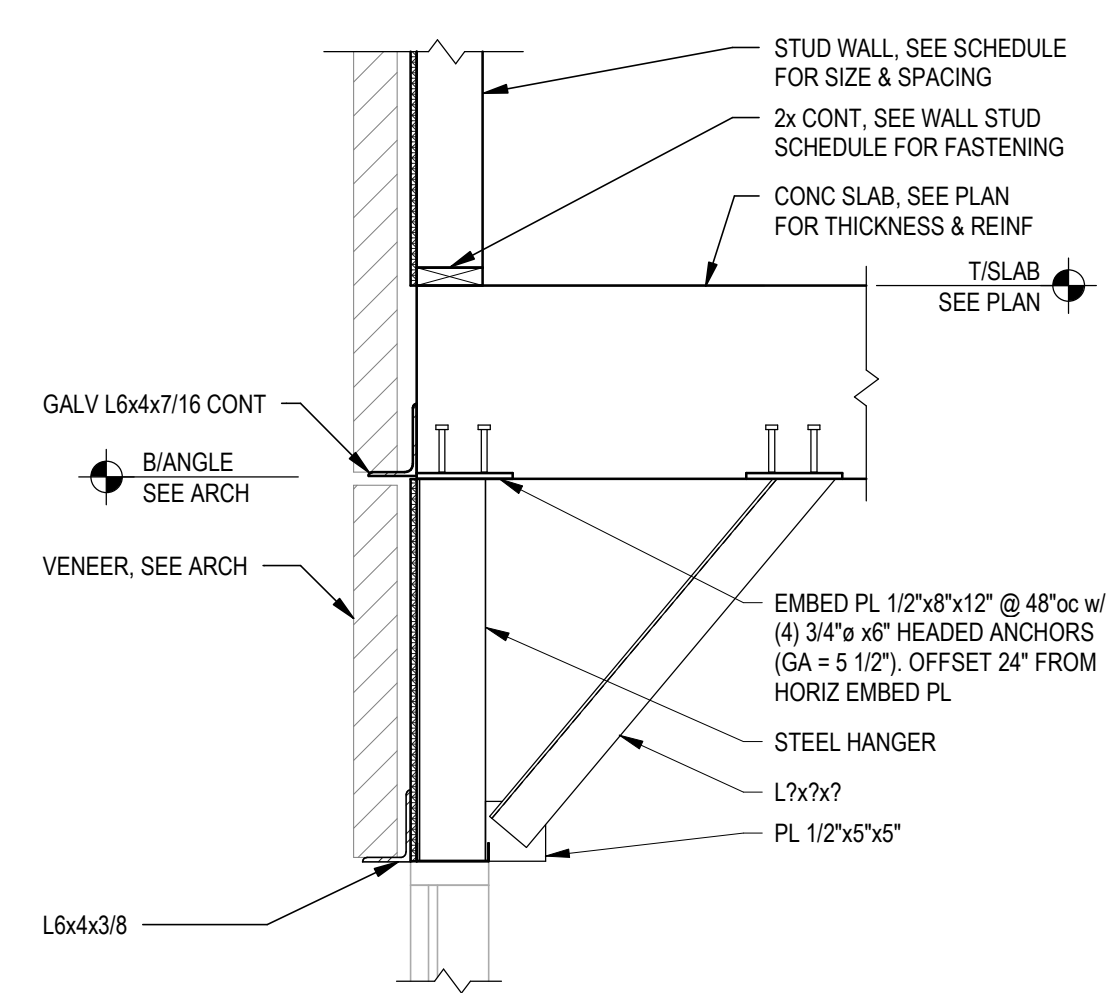
SECTION 1  
3/4" = 1'-0" S341



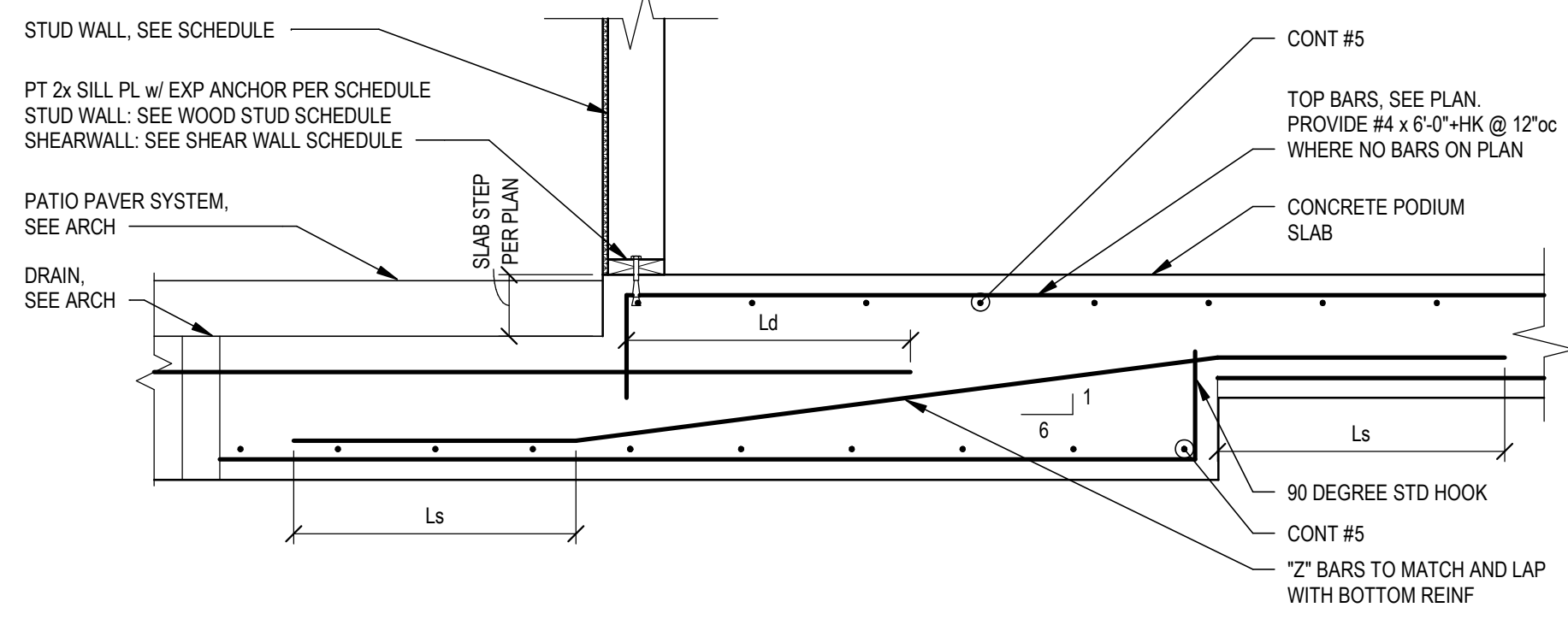
SECTION 2  
3/4" = 1'-0" S341



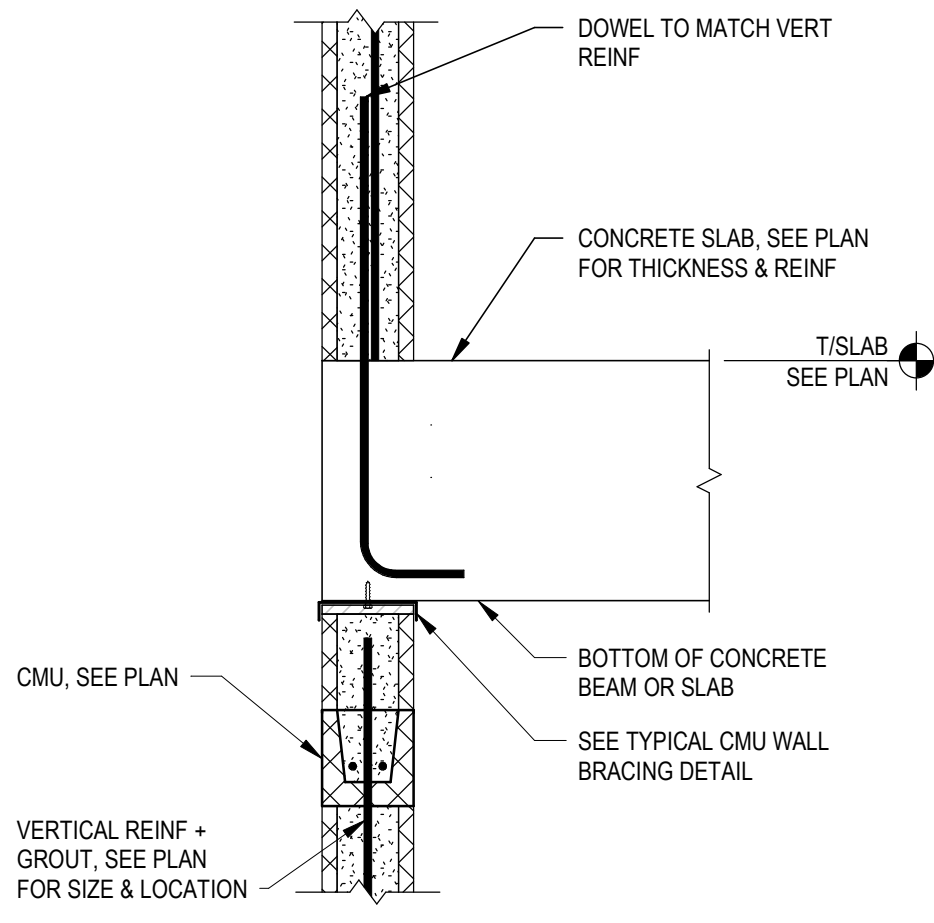
SECTION 3  
3/4" = 1'-0" S341



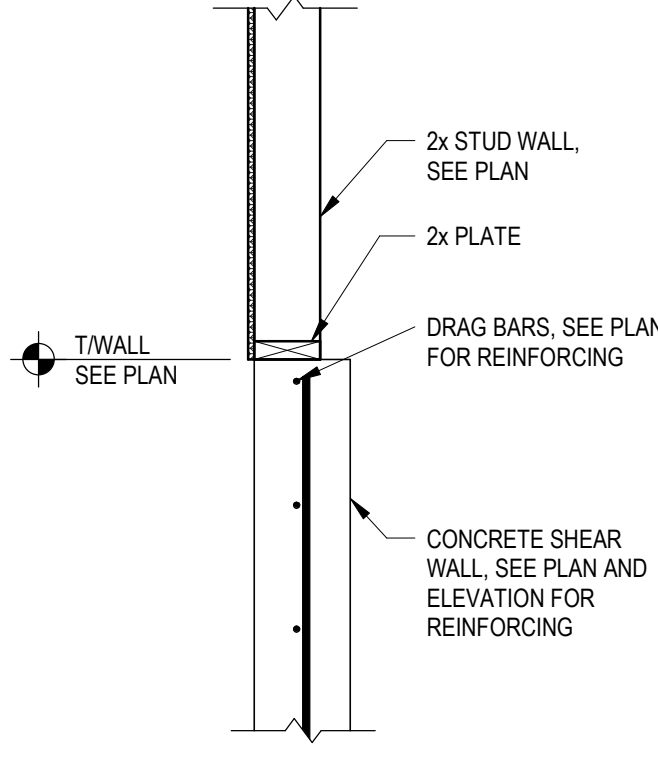
SECTION 4  
3/4" = 1'-0" S341



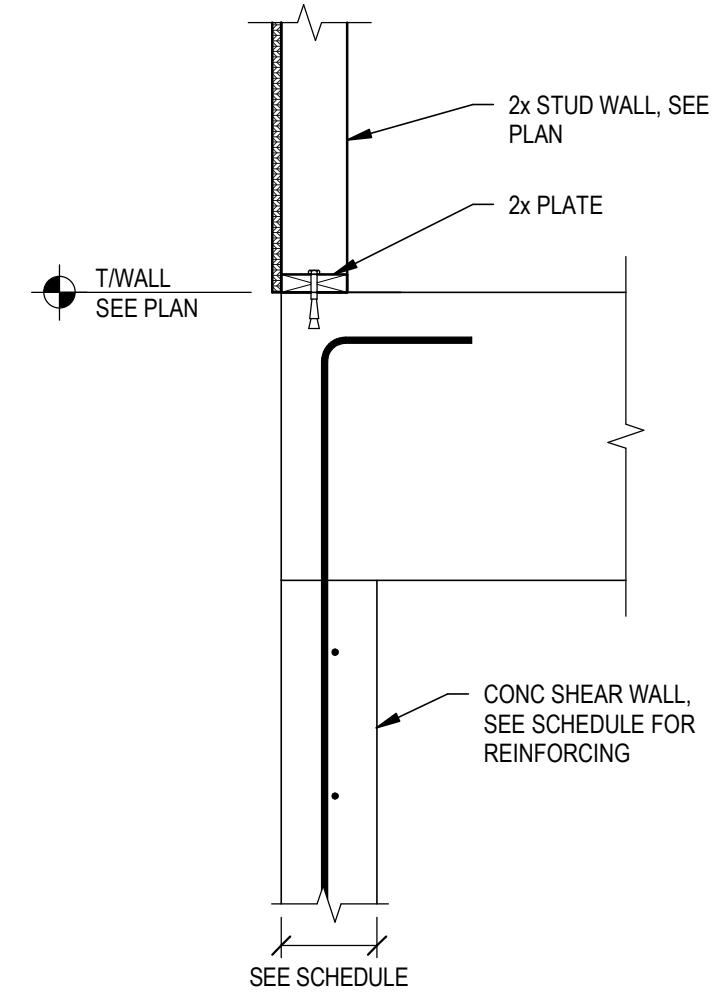
SECTION 5  
3/4" = 1'-0" S341



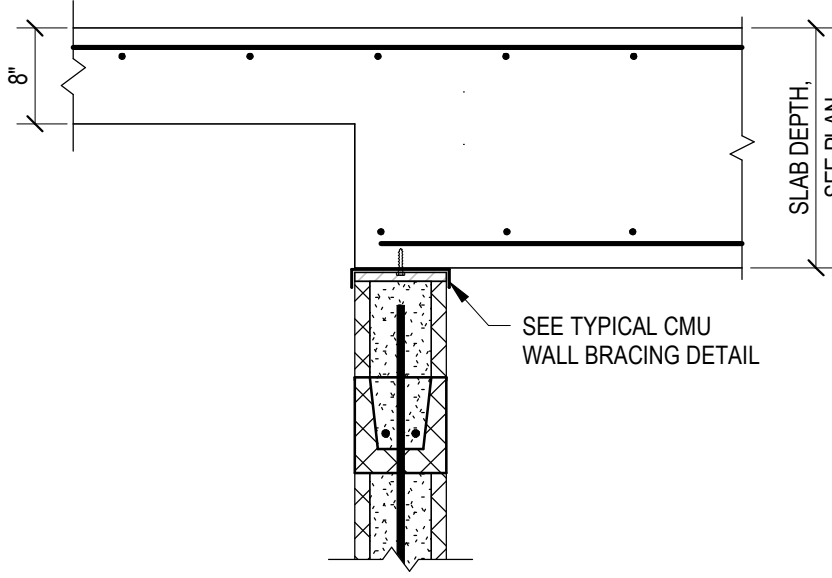
SECTION 6  
3/4" = 1'-0" S341



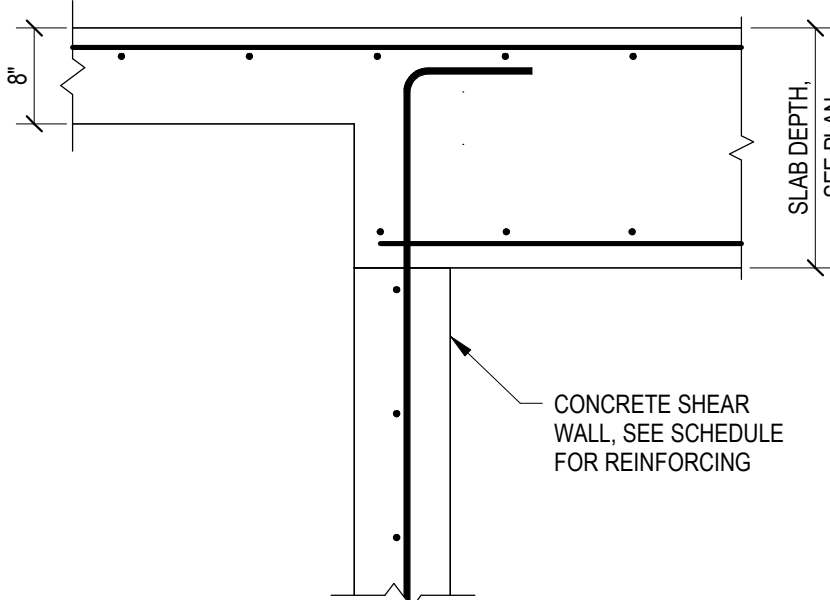
SECTION 7  
3/4" = 1'-0" S341



SECTION 8  
3/4" = 1'-0" S341



SECTION 9  
3/4" = 1'-0" S341



SECTION 10  
3/4" = 1'-0" S341

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNATI OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**CONCRETE FRAMING DETAILS & SECTIONS**

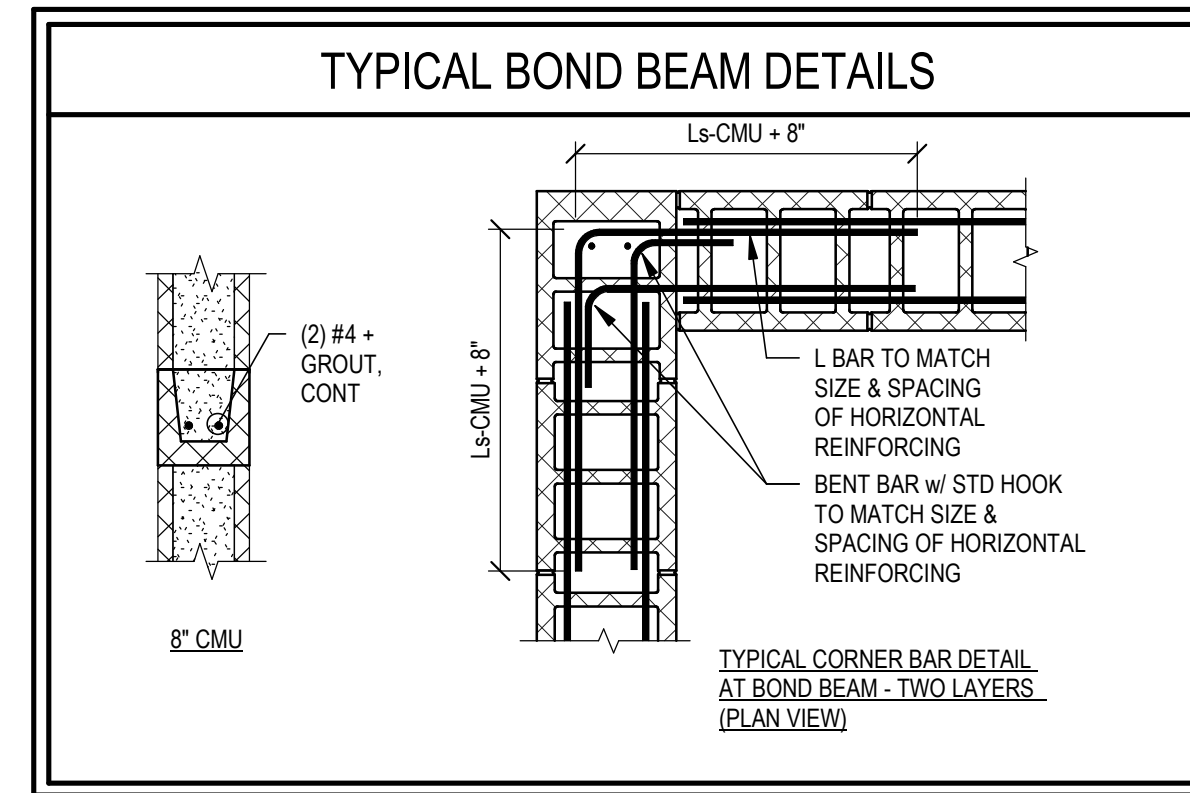
DATE:  
**Issue Date**

SHEET:  
**S341**



STAMP:

PROGRESS REVIEW ONLY  
NOT FOR CONSTRUCTION



### CMU WALL REINFORCING SCHEDULE

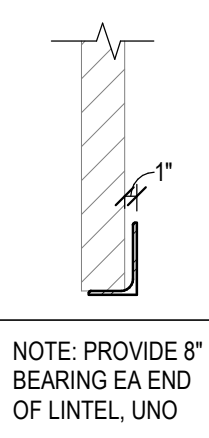
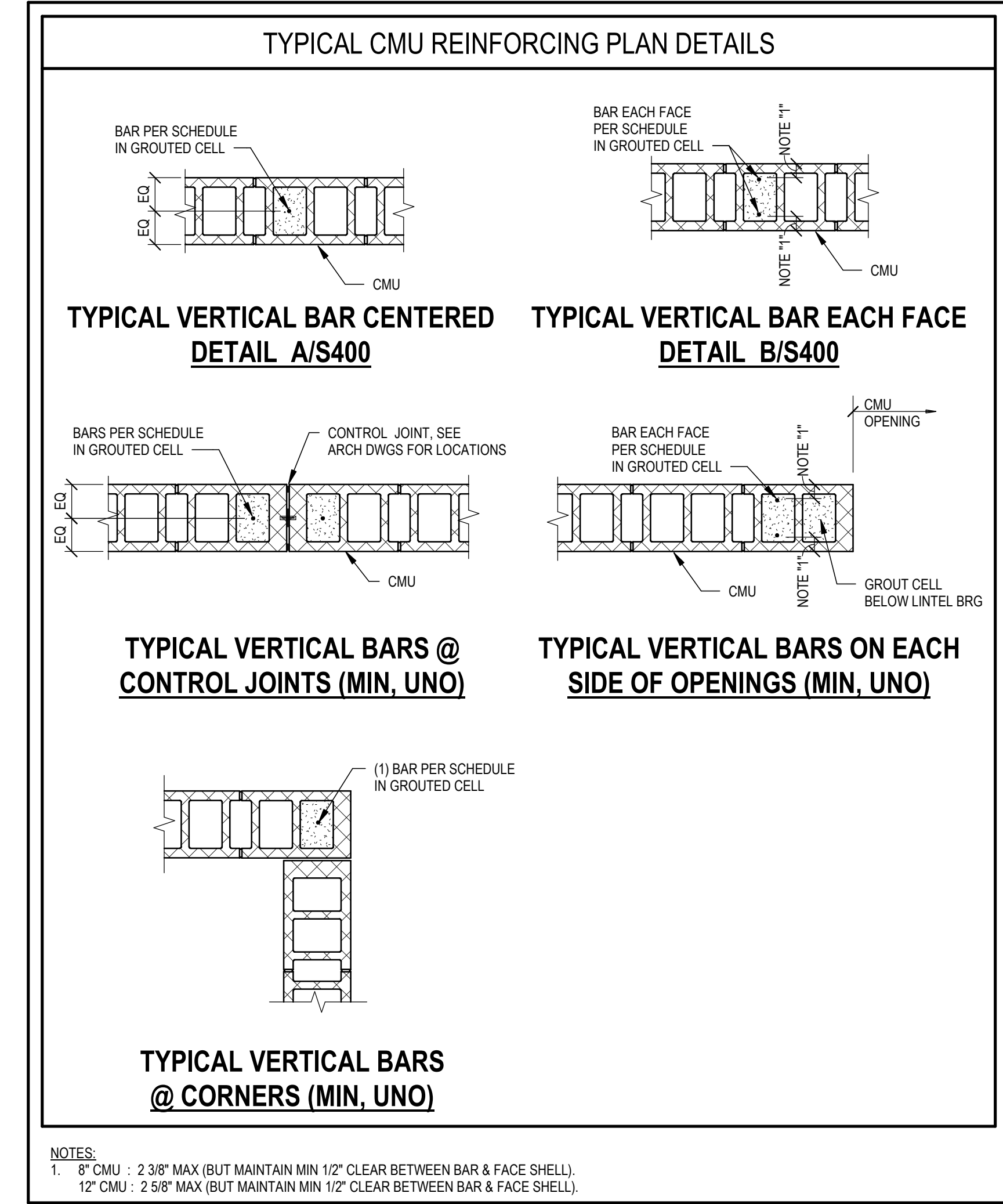
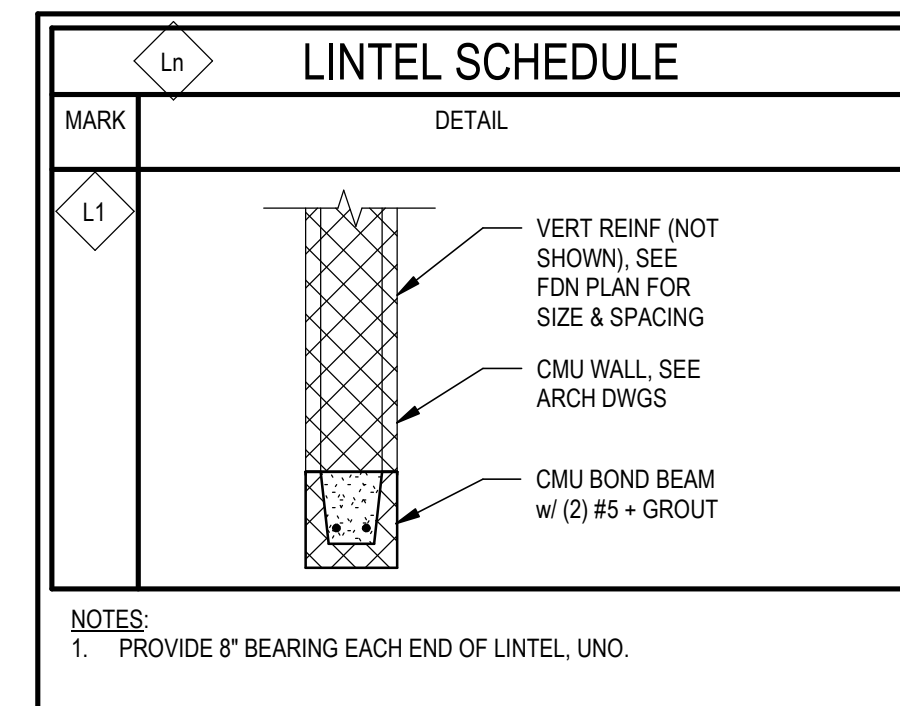
TYPICAL VERTICAL REINFORCING			
MARK	REINFORCING BAR SIZE & SPACING	CMU SIZE	DETAIL
W1	#5 @ 36"oc	8	A/S400

NOTES:  
1. "W1" - INDICATES VERTICAL WALL REINFORCING.  
2. GROUT ALL CELLS CONTAINING REINFORCING SOLID.  
3. "S1" - INDICATES REINFORCING EACH END OF SHEAR WALLS OR AT SPECIFIC JAMB CONDITIONS, ETC.  
4. REINFORCING TO BE PLACED IN CENTER OF GROUDED CELL UNLESS NOTED OTHERWISE.  
5. EXTEND REINFORCING FROM PLAN LEVEL SHOWN DOWN TO LEVEL BELOW AND LAP PER SCHEDULE IN MASONRY SECTION OF GENERAL STRUCTURAL NOTES. EXTEND DOVEL OR BENT BAR OUT OF CONCRETE WALL OR FOOTING TO PROVIDE LAP WITH EACH CMU VERTICAL REINFORCING BAR. SEE RELATING SECTIONS FOR EXACT DETAIL.  
6. ALL WALLS NOT NOTED WITH "W1" OR "S1" ON PLAN, REINFORCE WITH #7 VERT @ 72"oc, CENTERED.

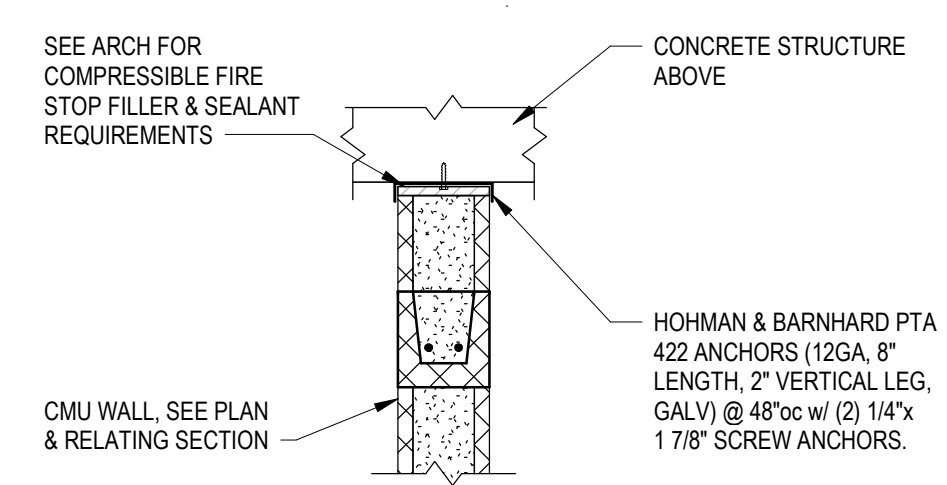
### BRICK LINTEL SCHEDULE

MAX CLEAR OPENING	LINTEL SIZE
4'-0"	L3 1/2x3 1/2x5/16
6'-0"	L5x3 1/2x5/16 (LLV)
8'-0"	L6x3 1/2x3/8 (LLV)
10'-0"	L8x4x7/16 (LLV)

NOTES:  
1. PROVIDE 8" BEARING EACH END OF LINTEL, UNO.



TYPICAL LOOSE LINTEL DETAIL  
3/4" = 1'-0"



TYPICAL CMU WALL BRACING DETAIL  
3/4" = 1'-0"

**PARAMOUNT WORKS**

2505 KEMPER LN  
CINCINNAT OH, 45206

ENGINEER: Designer  
MODELER: Author  
CHECKED BY: Checker

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION

PROJECT NUMBER:  
**2312.95**

SHEET NAME:  
**MASONRY SCHEDULES AND TYPICAL DETAILS**

DATE:  
**Issue Date**

SHEET:  
**S400**

COPYRIGHT © 2023  
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF SCHAEFER. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR ANY OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF SCHAEFER.