

1.00 GENERAL

- 1.01 A. "INTERNATIONAL BUILDING CODE", 2006 EDITION AND "GEORGIA STATE AMENDMENTS TO THE INTERNATIONAL BUILDING CODE", 2007, 2009, 2010.  
B. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-05).  
C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360-05).  
D. "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS."

1.02 DESIGN LOADS ARE AS FOLLOWS:

|                                              |        |
|----------------------------------------------|--------|
| A. ROOF DEAD LOAD                            |        |
| ROOFING                                      | 1 psf  |
| DECK                                         | 2 psf  |
| JOIST                                        | 3 psf  |
| COLLATERAL                                   | 7 psf  |
| TOTAL                                        | 13 psf |
| B. GROUND SNOW LOAD, Pg.....                 | .5 PSF |
| SNOW LOAD ON FLAT ROOF, P <sub>f</sub> ..... | .5 PSF |

C. ROOF LIVE LOAD .....20 PSF (REDUCED PER CODE)

|                                  |        |
|----------------------------------|--------|
| D. WIND LOADS                    |        |
| BASIC WIND SPEED (3-SECOND GUST) | 90 mph |
| BUILDING CATEGORY (ASCE 7)       | II     |
| WIND IMPORTANCE FACTOR           | 1.0    |
| WIND EXPOSURE                    | C      |
| INTERNAL PRESSURE COEFFICIENT    | ± 0.18 |
| COEFFICIENTS AND PRESSURES       |        |
| Q <sub>z</sub>                   | 19 psf |
| K <sub>z1</sub>                  | 19 psf |
| K <sub>z2</sub>                  | 1.0    |
| K <sub>z3</sub>                  | 1.0    |
| K <sub>d</sub>                   | 0.85   |

|                                                                                                 |                   |
|-------------------------------------------------------------------------------------------------|-------------------|
| COMPONENTS AND CLADDING (TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIAL) |                   |
| ROOF (FIELD)                                                                                    | + 18 psf - 21 psf |
| ROOF (PERIMETER)                                                                                | + 18 psf - 32 psf |
| ROOF (CORNER)                                                                                   | + 18 psf - 45 psf |
| WALL (FIELD)                                                                                    | + 18 psf - 21 psf |
| WALL (CORNERS)                                                                                  | + 18 psf - 25 psf |
| a = 102 FT                                                                                      |                   |

|                                                   |                                                                                                                   |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| E. EARTHQUAKE LOADS                               |                                                                                                                   |
| OCCUPANCY CATEGORY II                             |                                                                                                                   |
| SEISMIC USE GROUP I                               |                                                                                                                   |
| SEISMIC IMPORTANCE FACTOR = 1.0                   |                                                                                                                   |
| SOIL SITE CLASS "C"                               |                                                                                                                   |
| SEISMIC DESIGN COEFFICIENTS:                      |                                                                                                                   |
| S <sub>ds</sub> = 0.210g S <sub>d1</sub> = 0.093g |                                                                                                                   |
| SEISMIC DESIGN CATEGORY B                         |                                                                                                                   |
| BASIC SEISMIC FORCE RESTING SYSTEM                |                                                                                                                   |
| TRANSVERSE                                        | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE<br>R = 3, C <sub>d</sub> = 3 Cs = 0.07g |
| LONGITUDINAL                                      | ORDINARY REINFORCED CONCRETE SHEAR WALL<br>R = 5, C <sub>d</sub> = 4.5 Cs = 0.042g                                |

ANALYSIS PROCEDURE – EQUIVALENT LATERAL FORCE PROCEDURE FOR SEISMIC DESIGN OF BUILDINGS – SECTION 9.5.2.5 (ASCE 7-05)

1.05 COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

1.06 FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.

1.07 REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.08 NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.

1.09 FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE STARTING WORK.

1.10 COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION.

1.12 WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS, REGARDLESS OF WHETHER CUT OR LABELED, UNLESS NOTED OTHERWISE.

1.13 CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

1.14 ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

1.15 STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER CONSULTANTS IN THE CONTRACT DOCUMENTS.

1.16 IT IS EXPECTED THAT THE GENERAL CONTRACTOR IS EXPERIENCED IN THE TYPE OF CONSTRUCTION REQUIRED AND THEREFORE, IT IS EXPECTED THAT THE GENERAL CONTRACTOR WILL COORDINATE THESE DRAWINGS WITH APPLICABLE ARCHITECTURAL, CIVIL, AND M/E/P DRAWINGS. THE DOCUMENTS CONSIST OF THE ENTIRE SET OF DRAWINGS FROM ALL DISCIPLINES AND SPECIFICATIONS. THE ABOVE REFERENCED COORDINATION SHALL BE PERFORMED PRIOR TO ORDERING AND/OR FABRICATION OF ANY MATERIAL AND/OR THE CONSTRUCTION OF ANY ELEMENT.

2.00 FOUNDATIONS AND SLAB ON GROUND

2.01 DESIGN SOIL BEARING PRESSURE IS 3,500 PSF AS PER GEOTECHNICAL REPORT, PREPARED BY S&ME, INC DATED 05/23/2013.

2.02 GEOTECHNICAL ENGINEER SHALL VERIFY THE ASSUMED BEARING PRESSURE NOTED ABOVE, CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.

2.03 THE CONTRACTOR SHALL FOLLOW ALL THE RECOMMENDATIONS OF THE SOIL REPORT.

2.04 DO NOT BACKFILL AGAINST BASEMENT WALLS BEFORE THE SLABS TOP AND BOTTOM ARE CAST AND HAVE REACHED 75% OF DESIGN STRENGTH. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE WALL HAS REACHED 65% OF DESIGN STRENGTH.

2.05 SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

2.06 WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL

3.00 REINFORCED CONCRETE

3.01 CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY STRENGTHS:

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| FOUNDATIONS.....     | 3,000 psi                                                                                       |
| SLAB ON GRADE.....   | 4,000 psi (LOW SHRINKAGE WELL GRADED AGGREGATES, WITH A FLEXURAL STRENGTH OF 656 PSI @ 56 DAYS) |
| RETAINING WALLS..... | 3,000 psi                                                                                       |
| TILT UP WALLS.....   | 4,000 psi                                                                                       |

3.02 CONCRETE WALLS SHALL HAVE VERTICAL KEYED CONSTRUCTION OR TOOLED CONTROL JOINTS AT 20'-0" O.C. MAXIMUM. STOP HORIZONTAL REINFORCEMENT 2" CLEAR OF EACH SIDE OF CONSTRUCTION JOINTS. ALLOW ONLY 50% OF HORIZONTAL WALL REINFORCING TO PASS THROUGH CONTROL JOINTS. JOINTS ARE REQUIRED IN THE WALLS BUT NOT IN THE FOOTINGS SUPPORTING THE WALLS.

3.03 HORIZONTAL REINFORCEMENT IN FOOTINGS, TURNDOWN SLABS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS. WHERE HORIZONTAL REINFORCEMENT IS INDICATED ONLY ON INTERIOR OR EXTERIOR FACE OF WALLS, THESE BARS SHALL BE CONTINUOUS AROUND BENDS AND CORNERS. ADDITIONAL HORIZONTAL CORNER BARS OF SAME SIZE AND SPACING SHALL BE PROVIDED AT OPPOSITE FACE.

3.04 CONCRETE PROTECTION FOR REINFORCEMENT:

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

|                                                            |            |
|------------------------------------------------------------|------------|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH     | COVER (IN) |
|                                                            | 3          |
| CONCRETE EXPOSED TO EARTH OR WEATHER                       |            |
| #6 THROUGH #18 BARS                                        | 2          |
| #6 BAR, W31 OR D31 WIRE, AND SMALLER                       | 1 1/2      |
| CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: |            |
| SLABS, WALLS, JOISTS:                                      |            |
| #11 BAR AND SMALLER                                        | 3/4        |
| BEAMS, COLUMNS:                                            |            |
| PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS             | 1 1/2      |

3.05 DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315-99, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT – 1999".

3.06 THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.

3.07 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

3.08 CHAMFER OR ROUND ALL EXPOSED CORNERS MINIMUM 3/4".

3.09 TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

3.10 DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.

3.11 UNLESS NOTED OTHERWISE LAP, SPICE, OR EMBEDMENT LENGTHS SHALL CONFORM TO ACI-318 CLASS B TENSION SPICE, SEE TABLE BELOW.

3.12 NO BACKFILL SHALL BE PLACED AGAINST CONCRETE OR CMU WALLS UNTIL CONCRETE (AND/OR MORTAR, WHERE OCCURS) HAS ATTAINED FULL STRENGTH AND WALLS HAVE BEEN BRACED AGAINST LATERAL THRUST – SUCH BRACING SHALL REMAIN IN PLACE UNTIL SLAB ON EARTH (AND SUPPORTED SLAB, IF ANY) HAS BEEN PLACED AND ALLOWED TO CURE FOR 28 DAYS.

3.13 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

3.14 HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS AND CLEANED.

3.15 DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315 (R1986) DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

3.16 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE

3.17 WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS (ROLLS NOT PERMITTED).

3.18 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPICE ONLY AS SHOWN OR APPROVED. STAGGER SPICES WHERE POSSIBLE. USE TENSION SPICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPICES (CLASS "B") UNLESS NOTED OTHERWISE.

3.19 SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

3.20 PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

3.21 RESULTS OF CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE AT THE SITE FOR COUNTY'S INSPECTOR REVIEW

3.22 UTILIZE A BLENDED CONCRETE SLAB ON GRADE MIX, WITH OPTIMIZED AGGREGATE GRADATION TO MINIMIZE CURLING AND SHRINKAGE. MIX DESIGN SHALL INCLUDE A TOP COARSE AGGREGATE SIZE OF 1.5", TOTAL COARSE AND FINE AGGREGATE COMBINED GRADATION SHALL RESULT IN BETWEEN 6% TO 24% RETAINED ON EACH SIEVE, EXCEPT LARGEST SIEVE AT 1 1/2 TO 4%, AND NO. 100 SIEVE AT 2.5% TO 5% RETAINED.

3.23 AGGREGATE USED FOR SLAB-ON-GRADE MIX SHALL HAVE PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.04% AT 28 DAYS IN ACCORDANCE WITH ASTM C 157.

3.24 THE FLOOR SLAB SHALL BE 4,000 PSI CONCRETE. (LOW SHRINKAGE WELL GRADED AGGREGATES, WITH A FLEXURAL STRENGTH OF 700 PSI @ 56 DAYS)

3.25 PRIOR TO PLACING CONCRETE SLAB, THE BASE SHALL BE PROOF-ROLLED WITH A FULLY LOADED DUMP TRUCK, OR OTHER ACCEPTABLE MEANS. MAXIMUM DEPRESSION OF 1/2" UNDER A FULLY LOADED DUMP TRUCK IS ACCEPTABLE. IF GREATER THAN 1/2" DEPRESSION IS OBSERVED, CORRECTIVE ACTION SHALL BE TAKEN TO BRING THE BASE WITHIN REQUIREMENT.

3.26 FLOOR SLAB SHALL BE FREE OF CRACKS GREATER THAN A 1/32" (I.E. CREDIT CARD WIDTH).

3.27 NOT USED

3.28 PROVIDE VAPOR RETARDER UNDER ALL INTERIOR SLAB AREAS.

3.29 WAREHOUSE SLAB SHALL HAVE A MINIMUM OVERALL FLATNESS/LEVELNESS OF F50, FL35, WITH A MINIMUM LOCAL OF F35, FL24.

3.30 INSTALL DIAMOND DOWELS AT ALL CONSTRUCTION JOINTS AND LOAD PLATE BASKETS AT ALL CONTROL JOINTS.

3.31 SLAB CONTROL JOINTS SHALL BE SAW CUT UTILIZING A SOFT-CUT MACHINE AT THE OPTIMUM TIME. CONTROL JOINT LOCATION AS PER DUCTILECRETE SYSTEMS.

3.32 ALL JOINTS IN THE WAREHOUSE SHALL BE FILLED WITH SEMI-RIGID EPOXY JOINT FILLER EQUAL TO METZGER MCGUIRE MM80, FULL DEPTH (NO BACKER ROD ALLOWED). DELAY FILLING AS LONG AS POSSIBLE. UTILIZE STAIN PREVENTING FILM (SPF) AT ALL JOINTS.

3.33 THE WAREHOUSE FLOOR SHALL RECEIVE A CHEMICAL FLOOR HARDENER/SEALER EQUAL TO PENTRA-SIL NL BY CONVERGENT SYSTEMS.

3.34 SLAB SHALL BE WET CURED

3.35 AN ACID RESISTANT FLOOR COATING SHALL BE PROVIDED IN THE BATTERY CHARGING AREA. FLOOR MUST BE SCARIFIED PRIOR TO COATING APPLICATION.

5.00 STRUCTURAL STEEL, STEEL JOISTS, STEEL DECK

5.01 MATERIALS ARE TO BE AS FOLLOWS:

|                                                                   |                                                    |               |
|-------------------------------------------------------------------|----------------------------------------------------|---------------|
| STRUCTURAL STEEL WIDE FLANGE SHAPES/ CHANNELS, COLUMN BASE PLATES | ASTM A992                                          | Fy = 50 ksi   |
| OTHER STRUCTURAL SHAPES AND PLATES                                | ASTM A36                                           | Fy = 36 ksi   |
| STRUCTURAL PIPES                                                  | ASTM A500, GRADE B                                 | Fy = 42 ksi   |
| STRUCTURAL TUBES                                                  | ASTM A500, GRADE B                                 | Fy = 46 ksi   |
| HIGH STRENGTH BOLTS                                               | ASTM A325                                          | Fy = 74 ksi   |
| ANCHOR BOLTS (TENSILE STRENGTH)                                   | ASTM F1554                                         | Fy=50/105 ksi |
| HEADED STUDS                                                      | ASTM A108                                          | Fy = 50 ksi   |
| ROOF DECK                                                         | 1 1/2", 22GA, TYPE B, BOTTOM PAINTED WHITE, 80 ksi |               |
| WELDING ELECTRODES                                                | ASTM A233                                          | E70XX         |
| DECK WELDING ELECTRODES                                           | ASTM A233                                          | E60XX         |

5.02 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED AND ALL TRUSS, TRUSS ASSEMBLY AND COLUMN/BASE CONNECTIONS ARE COMPLETED.

5.03 THE STRUCTURAL DESIGN OF THE BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISIONS MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION.

5.04 CONNECTIONS OF STRUCTURAL STEEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

d. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DETAILED FOR THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS A SIMPLE BEAM) FOR THE SPAN SHOWN ON THE DRAWING. COMPOSITE BEAMS ARE TO BE DESIGNED FOR 1.5 x THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT AS A SIMPLE BEAM FOR THE SPAN SHOWN ON THE DRAWINGS.

b. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. PROVIDE MINIMUM 20 3/4" DIAMETER BOLTS AT CONNECTIONS. PROVIDE ERECTION BOLTS AT FIELD WELDED CONNECTIONS.

c. WHERE REACTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT.

5.05 WELDING TO BE BY QUALIFIED WELDERS USING E70XX ELECTRODES AND IN ACCORDANCE WITH AWS D1.1.

5.06 STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED ACCORDING TO AISC LOAD AND RESISTANCE FACTOR DESIGN (LRFD) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

5.07 SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC MANUAL "DETAILING FOR STEEL CONSTRUCTION". DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

5.08 DO NOT USE GAS CUTTING TORCHES FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL FRAMING.

5.09 SHEAR CONNECTORS: PROVIDE 3/4" DIAMETER SOLID FLUXED SHEAR CONNECTOR STUDS AUTOMATICALLY END WELDED THROUGH THE METAL DECK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER (NELSON DIVISION OF TRW OR APPROVED EQUAL).

5.10 STUD WELDING SHALL BE INSPECTED AND FIELD TESTED. STUDS FAILING THE TEST SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

5.11 ALL STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF LIGHT GRAY RUST INHIBITIVE PAINT. AFTER ERECTION HAS BEEN COMPLETED, DAMAGED, RUSTED OR SCRAPED METAL AREAS SHALL BE TOUCHED UP WITH THE SAME GRAY COLORED PAINT.

5.12 ALL EXPOSED STRUCTURAL STEEL WHICH RECEIVES THE INTUMESCENT PAINT SHOULD BE SHOP PRIMED. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.

5.13 PAINT STRUCTURAL STEEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE. STEEL WHICH RECEIVES FIREPROOFING, CONNECTIONS DESIGNATED AS FRICTION TYPE, OR TO BE WELDED, STEEL SURFACES RECEIVING AUTOMATICALLY WELDED SHEAR CONNECTORS STUDS IN THE FIELD SHALL NOT BE PAINTED.

5.14 ALL THE EXPOSED STEEL SHOULD BE FABRICATED TO AISC'S ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SPECIFICATIONS.

5.15 STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

5.16 ROOF DECKING SHALL BE 1-1/2" DEEP, 22-GAUGE MINIMUM, WIDE RIB TYPE. THE ROOF DECK SHALL BE FACTORY-PAINTED WHITE. AFTER ERECTION HAS BEEN COMPLETED, DAMAGED, RUSTED OR SCRAPED METAL AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT.ROOF DECKING TO BE MECHANICALLY FASTENED, OR IF WELDED, ALL BURN MARKS SHALL BE TOUCHED UP WITH MATCHING PAINT.

5.17 CONNECT THE METALL DECK TO SUPPORT WITH PIN FASTENERS.

a. 15MM. DIAMETER STEEL WASHERS; KNURLED SHANK; SUCH AS THE HILTI'S POWDERED ACTUATED FASTENERS WITH TAPERED HEAD; DOUBLE ENP2K-20-115 FASTENER OR PENLITEK FASTENERS SUCH AS THE SDK42075.

b. ALL INSTALLATION OF STEEL PIN FASTENERS SHALL BE MADE BY A QUALIFIED TOOL OPERATOR AS LICENSED BY THE MANUFACTURER. THE TOOL USED SHALL BE AS PRESCRIBED BY THE MANUFACTURER.

c. THE FASTENER SPACING FOR THE STEEL PINS SHALL BE AS PER THE FASTENING PLAN AS A MINIMUM.

d. COMPLETE MANUFACTURER'S REQUIREMENTS INCLUDING TYPE AND SPACING OF FASTENERS AND TOOL FOR INSTALLATION SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.

e. THE PIN FASTENERS SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL CONSTRUCTION BULLETIN 1-28, CLASS 1 CONSTRUCTION AND FM 1-90 WIND UPLIFT RESISTANCE.

5.18 FABRICATION AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS AS APPLICABLE TO THE PROJECT.

5.19 PROVIDE DECKING CONTINUOUS OVER 3 SPANS MINIMUM WHERE SUPPORTING STRUCTURE PERMITS.

5.20 STEEL JOISTS AND JOIST ORDERS SHALL BE FABRICATED AND ERECTED IN STRICT CONFORMANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND LOAD TABLES FOR JOISTS AND JOIST GIRDERS", OF THE STEEL JOIST INSTITUTE (SJI).

5.21 JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR THE UPLIFT WIND PRESSURE SHOWN ON THE ROOF PLAN IN ACCORDANCE WITH 1605.3 OF IBC 2006. ANY ADDITIONAL BRIDGING OR BRACING REQUIRED FOR BOTTOM CHORD SHALL BE SHOWN ON THE SHOP DRAWINGS.

LOADS GIVEN FOR JOIST ORDERS DO NOT INCLUDE WEIGHT OF JOIST GIRDERS.

5.22 BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED ACCORDING TO "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM 490

5.23 WELDER'S CERTIFICATE SHALL BE AVAILABLE AT THE JOB SITE.

6.00 MASONRY

- 6.1 HOLLOW UNITS.....f'm = 1,500 PSI, FOR DESIGN
- 6.2 MORTAR.....ASTM C270, TYPE M OR S
- 6.3 CONCRETE MASONRY WORK SHALL CONFORM TO ACI 530, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 530.1, SPECIFICATION FOR MASONRY STRUCTURES.
- 6.4 MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A602, WITH (2)-#9 GAGE OR HEAVIER WIRES, ZINC COATED, PLACED AT 16 INCHES ON CENTER (8 INCHES ON CENTER AT PARAPETS), UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
- 6.5 MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION C90 FOR HOLLOW LOADBEARING CONCRETE MASONRY UNITS.
- 6.6 WALLS SHALL BE CONSTRUCTED USING A FULL BED OF MORTAR. VERTICAL REINFORCING SHALL BE GROUTED IN PLACE WITH 3000 PSI FINE GROUT CONFORMING TO ASTM C476 (GROUT SLUMP SHALL FALL BETWEEN 8 AND 11 INCHES). LAY BLOCK UP A MAXIMUM OF 4'-0" PRIOR TO FILLING CELLS WITH GROUT.
- 6.7 VERTICAL WALL REINFORCING SHALL BE LOCATED IN ALL WALL CORNERS, AT EACH SIDE OF MASONRY CONTROL JOINTS, AT SIDES OF WALL OPENINGS AND AT THE ENDS OF WALLS. MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF CMU CELLS, UNLESS NOTED OTHERWISE.
- 6.8 VERTICAL REINFORCING BARS IN MASONRY SHALL BE LAP SPICED MINIMUM 25" FOR #4 BARS AND 32" FOR #5 BARS.

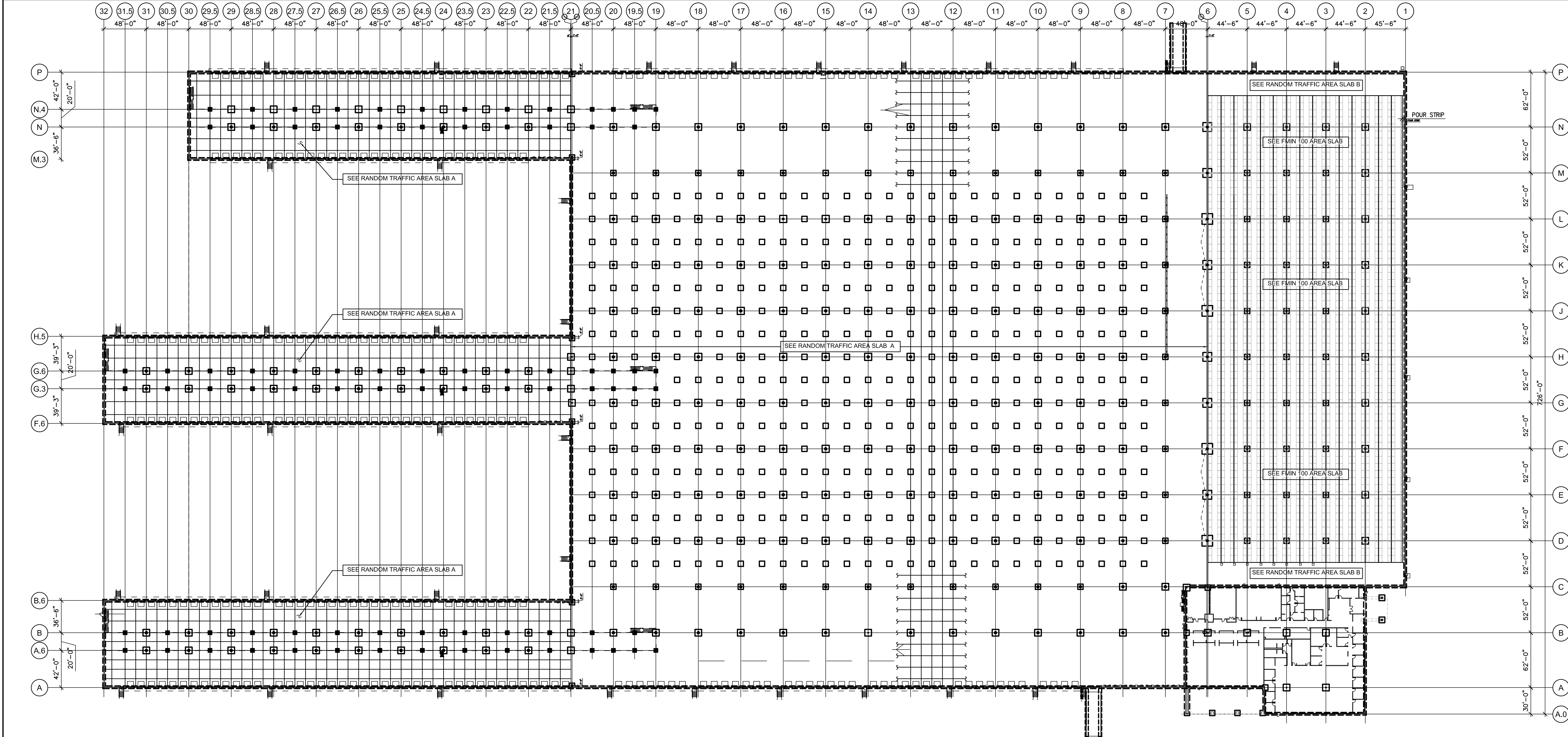
- SHOP DRAWING SCOPE:
1. PREPARATION OF REQUIRED SHOP DRAWINGS.
  2. CHECKING OF THE SHOP DRAWINGS BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO A/E WITH PROPER SHOP DRAWING STAMP.
  3. SUBMITTAL TO A/E FOR REVIEW, ALLOWING A MINIMUM OF FIVE (5) FULL WORKING DAYS IN THE ENGINEERS OFFICE FOR THIS REVIEW. LARGE SUBMITTALS WILL REQUIRE MORE THAN FIVE (5) DAYS.
  4. REVISION TO SHOP DRAWINGS, AS NECESSARY, FOLLOWING A/E REVIEW. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
  5. RECHECKING OF REVISED SHOP DRAWINGS BY THE GENERAL CONTRACTOR.
  6. RESUBMITTAL TO A/E, IF INDICATED ON ARCHITECT OR ENGINEER SHOP DRAWING STAMP.
  7. REVIEW OF SHOP DRAWING SUBMITTALS SHALL NOT BE CONSTRUED AS AUTHORIZING ANY CHANGE IN THE CONTRACT SUM OR CONTRACT TIME. ANY COST FOR RE-DETAILING DUE TO SHOP DRAWING REVIEW COMMENTS SHALL BE BORNE BY THE CONTRACTOR.

| CLASS B SPICE=1.3ld                                          |                               |             |          |
|--------------------------------------------------------------|-------------------------------|-------------|----------|
| HORIZONTAL BARS WITH LESS THAN 12" OF FRESH CONCRETE BELOW:  |                               |             |          |
| $ld = \left[ \frac{fy\alpha\lambda}{25\sqrt{fc}} \right] db$ | db - FOR BARS #6 AND SMALLER; |             |          |
| $ld = \left[ \frac{fy\alpha\lambda}{20\sqrt{fc}} \right] db$ | db - FOR BARS #7 AND LARGER.  |             |          |
| BARs                                                         | CONCRETE f'                   | CONCRETE f' | COMMENTS |
| #4                                                           | 25"                           | 29"         |          |
| #5                                                           | 31"                           | 36"         |          |
| #6                                                           | 37"                           | 43"         |          |
| #7                                                           | 54"                           | 63"         |          |

QUALITY ASSURANCE PLAN

ALL INSPECTIONS, TESTINGS AND VERIFICATIONS SHALL BE IN ACCORDANCE WITH IBC'S TABLE 1704.3 AND 1704.4 AND AS FOLLOWS:

| SPREAD FOOTINGS AND CONTINUOUS FOOTINGS                                                                |                                                                                                                                                                 | FREQUENCY  | REFERENCE |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
|                                                                                                        |                                                                                                                                                                 | CONTINUOUS | PERIODIC  |
| A.                                                                                                     | INSPECT PLAN DIMENSIONS AND DEPTH                                                                                                                               | X          | -         |
| B.                                                                                                     | INSPECT QUANTITY AND SPACING OF BARS                                                                                                                            | X          | -         |
| C.                                                                                                     | INSPECT PROPER CLEARANCE TO BARS AT TOP AND BOTTOM IS PROVIDED                                                                                                  | X          | -         |
| D.                                                                                                     | VERIFY PROPER LAPS ARE PROVIDED                                                                                                                                 | X          | -         |
| E.                                                                                                     | INSPECT FOR PROPER DOWEL EMBEDMENT INTO FOOTING AND EXTENSION ABOVE FOOTING                                                                                     | X          | -         |
| F.                                                                                                     | INSPECT FOR CORNER BARS, STEP BARS, DOWELS, ANCHOR BOLTS, OR EMBEDDED MATERIAL                                                                                  | X          | X         |
| G.                                                                                                     | VERIFY SOILS ENGINEER HAS APPROVED DESIGN BEARING CAPACITY                                                                                                      | X          | -         |
| H.                                                                                                     | VERIFY THAT ALL LOOSE MATERIAL IS REMOVED FROM BOTTOM OF FOOTING. NO SIDE FORMING IS PERMITTED                                                                  | X          | -         |
| I.                                                                                                     | INSPECT BOLTS TO BE INSTALLED IN FOOTINGS PRIOR TO AND DURING CONCRETE PLACEMENT                                                                                | X          | -         |
| C. CONCRETE TILT-UP WALLS                                                                              |                                                                                                                                                                 |            |           |
| (SUBCONTRACTOR SHALL PROVIDE EXPERIENCED SUPERVISOR FOR REBAR INSPECTION AND EMBEDDED ITEMS PLACEMENT) |                                                                                                                                                                 |            |           |
| A.                                                                                                     | INSPECT DOWEL LENGTH AND OFFSET REQUIREMENTS                                                                                                                    | X          | -         |
| B.                                                                                                     | INSPECT THE ARRANGEMENT AND SPACING                                                                                                                             | X          | -         |
| C.                                                                                                     | INSPECT PROPER CLEARANCES TO BARS ARE AS REQUIRED                                                                                                               | X          | -         |
| D.                                                                                                     | CHECK NUMBER AND SIZE OF BARS. CHECK SPACING AND EXTENSION OF BARS                                                                                              | X          | -         |
| E.                                                                                                     | INSPECTION OF ALL EMBEDDED ITEMS                                                                                                                                | X          | -         |
| E1.                                                                                                    | INSPECT PLACEMENT OF EMBEDDED PLATES                                                                                                                            | X          | -         |
| E2.                                                                                                    | INSPECT PLACEMENT OF EMBEDDED PLATES                                                                                                                            | X          | -         |
| E3.                                                                                                    | INSPECT PLACEMENT OF EMBEDDED PLATES                                                                                                                            | X          | -         |
| E4.                                                                                                    | INSPECT PLACEMENT OF EMBEDDED PLATES                                                                                                                            | X          | -         |
| E5.                                                                                                    | INSPECT PLACEMENT OF ALL OTHER EMBEDDED PLATES                                                                                                                  | X          | -         |
| D. STRUCTURAL STEEL                                                                                    |                                                                                                                                                                 |            |           |
| (SUBCONTRACTOR SHALL PROVIDE EXPERIENCED SUPERVISOR FOR INSPECTION OF WELDS AND OTHER ATTACHMENTS)     |                                                                                                                                                                 |            |           |
| A.                                                                                                     | MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS                                                                                                  | X          | -         |
| B.                                                                                                     | CHECK ANCHOR BOLTS AND GROUTING OF BASE PLATE                                                                                                                   | X          | X         |
| C.                                                                                                     | INSPECT COMPLETE PENETRATION OF MULTI-PASS FILLET WELDS                                                                                                         | X          | -         |
| D.                                                                                                     | INSPECT COMPLETE PENETRATION OF SINGLE PASS FILLET WELDS > 5/16                                                                                                 | X          | -         |
| E.                                                                                                     | INSPECT COMPLETE PENETRATION OF SINGLE PASS FILLET WELDS < 5/16                                                                                                 | X          | -         |
| F.                                                                                                     | INSPECT HIGH-STRENGTH BOLTING (NON-SLIP-CRITICAL)                                                                                                               | X          | -         |
| G.                                                                                                     | INSPECT ALL JOISTS ARE WELDED DOWN OR CONNECTED TO STEEL                                                                                                        | X          | -         |
| G1a.                                                                                                   | INSPECT ALL JOISTS ARE WELDED DOWN TO SHELF ANGLE                                                                                                               | X          | -         |
| G1b.                                                                                                   | INSPECT SHELF ANGLE WELDING TO EMBEDDED PLATE                                                                                                                   | X          | -         |
| G2.                                                                                                    | INSPECT ALL JOISTS ARE WELDED TO EMBEDDED PLATE                                                                                                                 | X          | -         |
| G3a.                                                                                                   | INSPECT PERIMETER ANGLE WELDING TO EMBEDDED PLATE AND JOIST SEATS                                                                                               | X          | -         |
| G3b.                                                                                                   | INSPECT PERIMETER STRUT ANGLE WELDING TO PERIMETER ANGLE AND TO JOIST                                                                                           | X          | -         |
| G3C.                                                                                                   | INSPECT PERIMETER ANGLE SPICE                                                                                                                                   | X          | -         |
| G4.                                                                                                    | INSPECT GRIOR WELDING TO EMBEDDED PLATE                                                                                                                         | X          | -         |
| H.                                                                                                     | INSPECT ALL BRIDGING, "X" BRIDGING, AND MISCELLANEOUS STEEL IS IN PLACE (PRIOR TO ERECTION AND AFTER ERECTION FOR SPECIAL)                                      | X          | -         |
| I.                                                                                                     | INSPECT THAT FIELD WELDED AREAS ARE PAINTED                                                                                                                     | X          | -         |
| J.                                                                                                     | INSPECT THAT METAL DECK IS ATTACHED AS CALLED FOR ON DRAWINGS                                                                                                   | X          | -         |
| K.                                                                                                     | INSPECT THAT PROPER BEARING IS PROVIDED FOR JOISTS AND BEAMS ON STEEL OR CONCRETE                                                                               | X          | -         |
| L.                                                                                                     | INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.                                                                    | X          | -         |
| MEMBER LOCATIONS                                                                                       |                                                                                                                                                                 |            |           |
| APPLICATION OF JOINT DETAILS AT EACH CONNECTION                                                        |                                                                                                                                                                 |            |           |
| M.                                                                                                     | INSPECT GIRDEN SEAT AND GUSSET PLATE SHIP WELDING TO COLUMN PRIOR TO ERECTION                                                                                   | X          | -         |
| N.                                                                                                     | INSPECT FIELD WELDING OF DIAGONAL BRACING TO GUSSET PLATES AND TO SPICE PLATES                                                                                  | X          | -         |
| O.                                                                                                     | INSPECT BEAM BOLTED CONNECTIONS AT MOMENT FRAME LINES.                                                                                                          | X          | -         |
| P.                                                                                                     | INSPECT ERECTION AND WELDING OF EXPANSION JOINT ANGLES                                                                                                          | X          | -         |
| Q.                                                                                                     | INSPECT GIRDER SEAT WELDING TO COLUMN                                                                                                                           | X          | -         |
| E. CONCRETE VERIFICATION AND INSPECTION                                                                |                                                                                                                                                                 |            |           |
| A.                                                                                                     | VERIFYING USE OF REQUIRED DESIGN MIX.                                                                                                                           | X          | -         |
| B.                                                                                                     | SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS. | X          | -         |
| C.                                                                                                     | INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES                                                                                              | X          | -         |
| D.                                                                                                     | INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES                                                                                       | X          | -         |
| E.                                                                                                     | VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO ERECTION OF TILT-UP PANELS                                                                                  | X          | -         |
| F. CONCRETE SLAB PLACEMENT                                                                             |                                                                                                                                                                 |            |           |
| A.                                                                                                     | SUBCONTRACTOR SHALL PROVIDE EXPERIENCED SUPERVISOR                                                                                                              | X          | -         |
| B.                                                                                                     | INSPECT DIAMOND PLATE PLACEMENT                                                                                                                                 | X          | -         |
| C.                                                                                                     | INSPECT DOWEL BASKET PLACEMENT                                                                                                                                  | X          | -         |
| D.                                                                                                     | INSPECT REINFORCEMENT PLACEMENT                                                                                                                                 | X          | -         |



1

OVERALL FOUNDATION PLAN

1" = 50'-0"

**FMIN 100 AREA SLAB**

**SOIL AND BASE**

- 6" GRADED AGGREGATE BASE MATERIAL BELOW THE SLAB
- PROOF-ROLLING OF SUBGRADE AND BASE MATERIAL, WITH THE LAST PROOF-ROLLING JUST BEFORE THE SLAB PLACEMENT IN THE AREA

**SLAB ON GRADE**

- SLAB SHALL BE 10" THICK W/ #6 @ 7" (LONG WAY) WITH 1 1/2" CLEAR FROM THE TOP OF THE SLAB. PROVIDE #4 @ 48" O.C. SHORT WAY TO SERVE AS SUPPORT FOR LONGITUDINAL BARS
- VAPOR RETARDER, USE A DOUBLE POLY SLIP SHEET. THE TOP SHEET IS TO BE THE VAPOR RETARDER (10 MIL) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, INCLUDING THE JOINTS TO BE TAPED. THE BOTTOM SLIP SHEET SHALL BE 4 OR 6 MIL POLY, AND THE JOINTS ARE TO BE LAPPED BUT NOT REQUIRED TO BE TAPED. FOLDED SHEETS SHALL NOT BE USED.
- DOWELS, LONGITUDINAL CONSTRUCTION JOINTS IN THE RACK FLUE, PNA 3/4" DIAMOND DOWEL SPACED AT 24" ON CENTER WITH POCKET FORMERS ON BOTH SIDES OF DOWELS.

**CONCRETE**

- LOW SHRINKAGE, WELL GRADED AGGREGATES WITH A FLEXURAL STRENGTH OF 650 PSI AT 56 DAYS.
- 7 DAYS OF WET CURING.

**RANDOM TRAFFIC AREA SLAB B**

**SOIL AND BASE**

- 6" GRADED AGGREGATE BASE MATERIAL BELOW THE SLAB
- PROOF-ROLLING OF SUBGRADE AND BASE MATERIAL, WITH THE LAST PROOF-ROLLING JUST BEFORE THE SLAB PLACEMENT IN THE AREA

**SLAB ON GRADE**

- SLAB SHALL BE 10" THICK W/ #6 @ 10" (LONG WAY) WITH 1 1/2" CLEAR FROM THE TOP OF THE SLAB. PROVIDE #4 @ 48" O.C. SHORT WAY TO SERVE AS SUPPORT FOR LONGITUDINAL BARS
- VAPOR RETARDER, USE A DOUBLE POLY SLIP SHEET. THE TOP SHEET IS TO BE THE VAPOR RETARDER (10 MIL) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, INCLUDING THE JOINTS TO BE TAPED. THE BOTTOM SLIP SHEET SHALL BE 4 OR 6 MIL POLY, AND THE JOINTS ARE TO BE LAPPED BUT NOT REQUIRED TO BE TAPED. FOLDED SHEETS SHALL NOT BE USED.
- TRANSVERSE CONSTRUCTION JOINTS IN TRAFFIC LANES, PNA ARMOR-EDGE WITH 3/4" DIAMOND DOWEL SPACED AT 24" ON CENTER.

**CONCRETE**

- LOW SHRINKAGE, WELL GRADED AGGREGATES WITH A FLEXURAL STRENGTH OF 650 PSI AT 56 DAYS.
- 7 DAYS OF WET CURING.

**RANDOM TRAFFIC AREA SLAB A**

**SOIL AND BASE**

- 6" GRADED AGGREGATE BASE MATERIAL BELOW THE SLAB

**SLAB ON GRADE**

- 6" UNREINFORCED CONCRETE SLAB CLOSELY JOINTED (15'-0" MAX.) WITH 1/4" DIAMOND CONSTRUCTION JOINT DOWELS @ 24" AND 3/4" DOWEL PLATE BASKETS @ 24" @ CONTROL JOINTS. (10 MIL VAPOR RETARDER). CONTROL AND CONSTRUCTION JOINTS SHALL BE SAWCUT AND FILLED WITH MM80

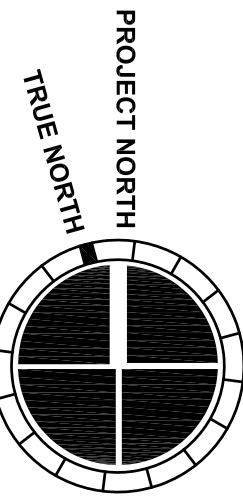
**CONCRETE**

- LOW SHRINKAGE, WELL GRADED AGGREGATES WITH A FLEXURAL STRENGTH OF 650 PSI AT 56 DAYS.
- 7 DAYS OF WET CURING.

| COLUMN SCHEDULE |               |             |                |         |
|-----------------|---------------|-------------|----------------|---------|
| MARK            | SIZE          | BASE PLATE  | ANCHOR BOLTS   | REMARKS |
| C1              | HSS12x12x1/4  | 20x20x1     | 4 - 1"ø AB     |         |
| C1B             | HSS12x12x1/4  | SEE S-304   | 8 - 1-1/2"ø AB |         |
| C1W             | HSS12x12x5/16 | 20x20x1     | 4 - 1"ø AB     |         |
| C2              | HSS12x12x5/16 | 20x20x1     | 4 - 1"ø AB     |         |
| C3              | HSS12x12x5/16 | 20x20x1 1/2 | 4 - 1"ø AB     |         |
| C4              | HSS12x12x1/4  | 20x20x1     | 4 - 1"ø AB     |         |
| C4B             | HSS12x12x1/4  | SEE S-304   | 8 - 1-1/2"ø AB |         |
| C5              | HSS10x10x5/16 | 16x16x1     | 4 - 1"ø AB     |         |
| C6              | HSS8x8x1/4    | 18x18x1/2   | 4 - 1"ø AB     |         |
| C10             | HSS8x8x1/4    | 16x6x1      | 4 - 1"ø AB     |         |

| FOOTING SCHEDULE |                                                               |  |
|------------------|---------------------------------------------------------------|--|
| MARK             | SIZE AND REINFORCING                                          |  |
| 40               | 4'-0"x4'-0"x15"<br>w/ 6- #4 E.W.                              |  |
| 50               | 5'-0"x5'-0"x15"<br>w/ 7- #4 E.W.                              |  |
| 60               | 6'-0"x6'-0"x15"<br>w/ 7- #5 E.W.                              |  |
| 76               | 7'-6"x7'-6"x18"<br>w/ 8 #6 E.W.                               |  |
| 80               | 8'-0"x8'-0"x20"<br>w/ 8- #6 E.W.                              |  |
| 100              | 10'-0"x10'-0"x24"<br>w/ 10- #7 BOTTOM E.W.                    |  |
| 100S             | 10'-0"x10'-0"x30"<br>w/ 11- #7 BOTTOM E.W.<br>11- #5 TOP E.W. |  |
| 120S             | 12'-0"x12'-0"x30"<br>w/ 13- #7 BOTTOM E.W.<br>13- #5 TOP E.W. |  |

|       |       |       |
|-------|-------|-------|
| S-207 | S-204 | S-205 |
| S-206 | S-203 | S-202 |



MACGREGOR ASSOCIATES ARCHITECTS

2839 Paces Ferry Road, Suite 500  
Atlanta, Georgia 30339  
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT

Browder + LeGuzman  
and Associates, Inc., Engineers  
174 West Waco Road Atlanta, Georgia 30342  
T (404) 851-8980  
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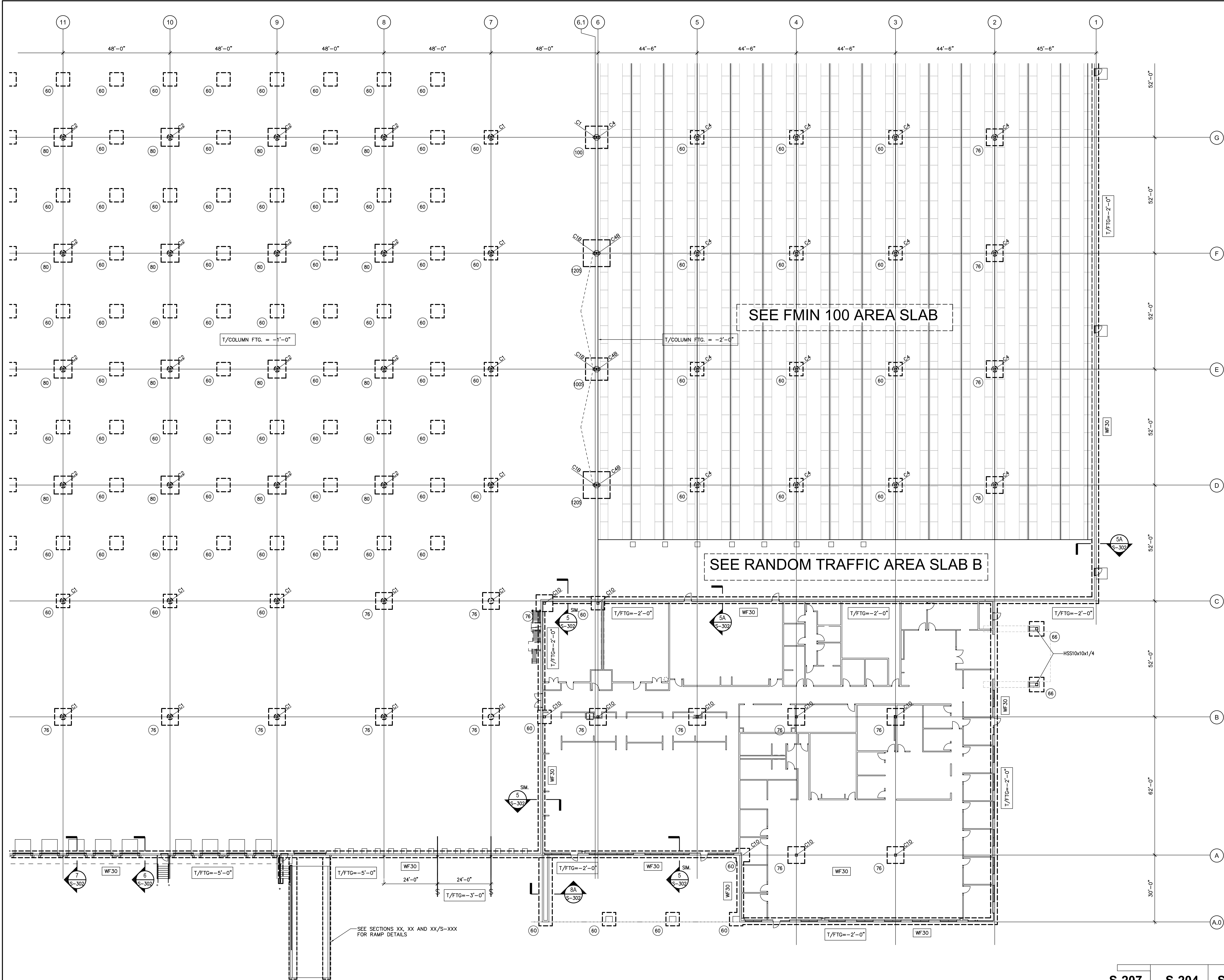
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**OVERALL FOUNDATION PLAN**

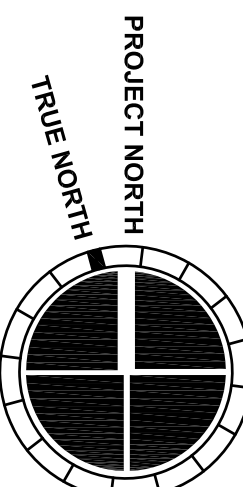
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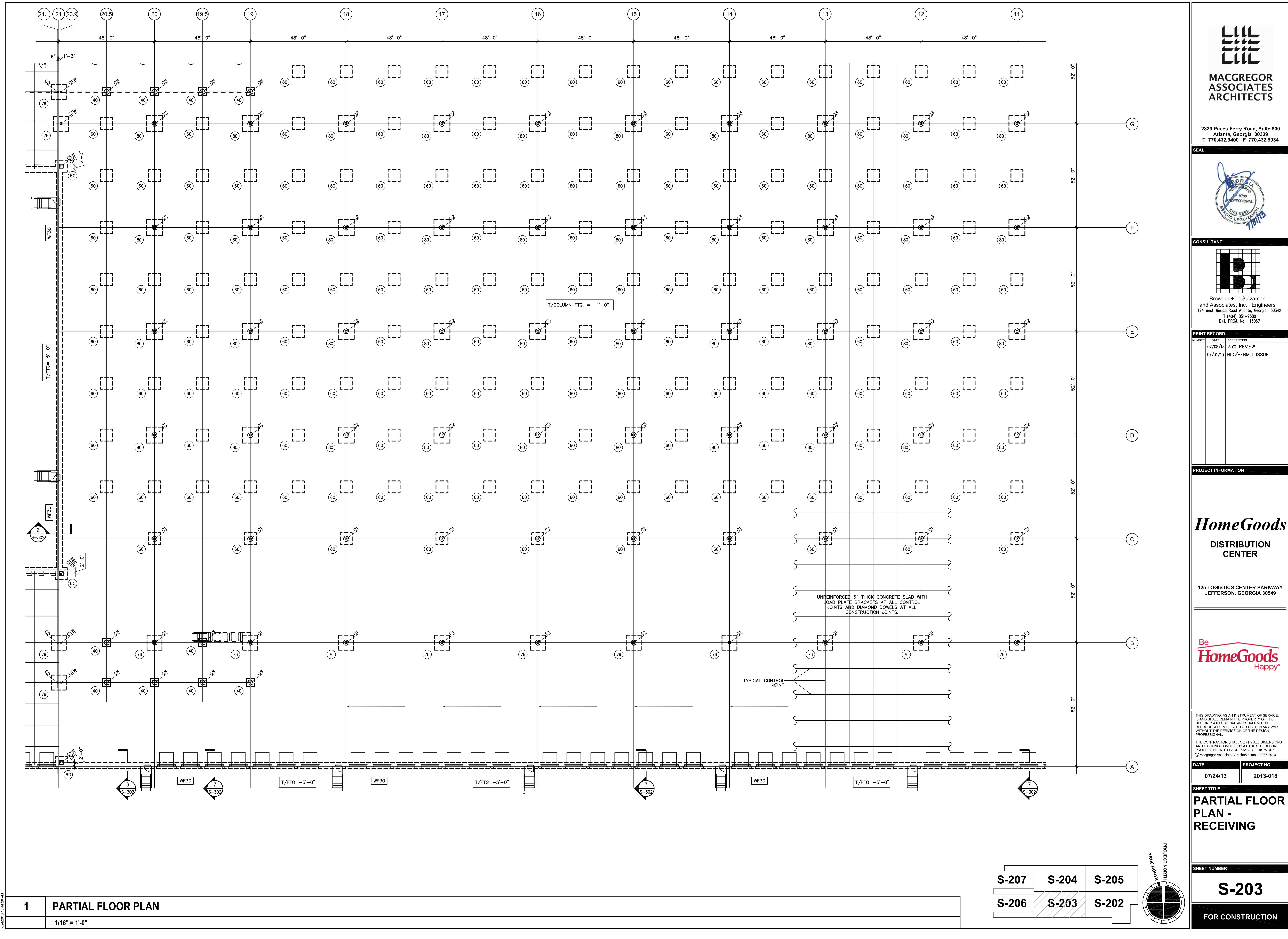
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| S-206 | S-203 | S-202 |





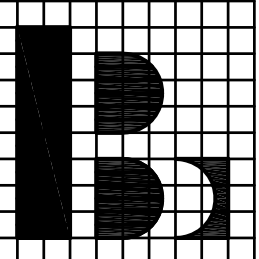
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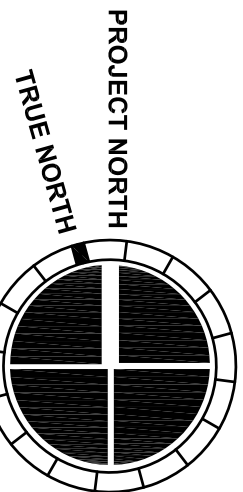
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**PARTIAL FLOOR  
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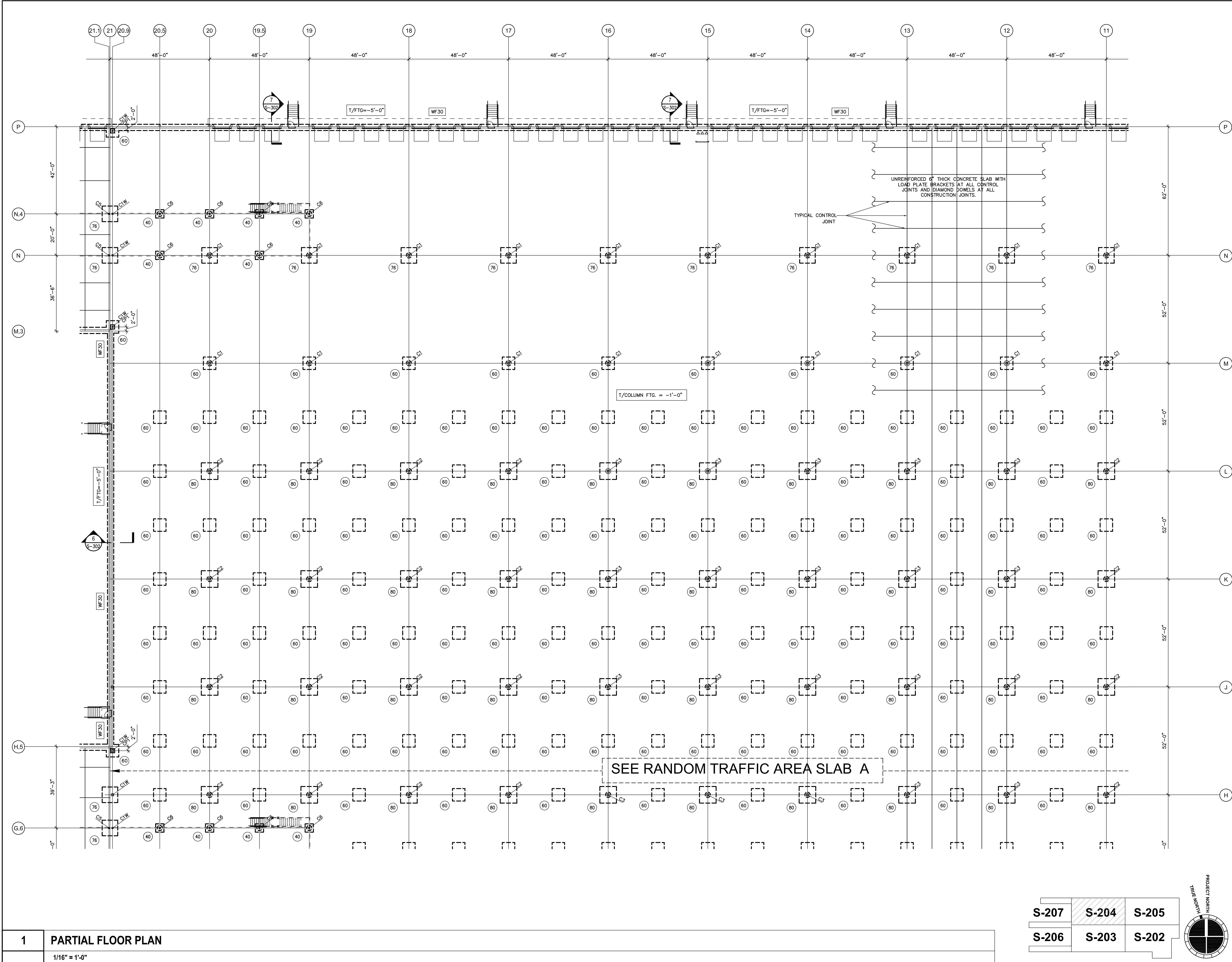


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| S-207 | S-204 | S-205 |
| S-206 | S-203 | S-202 |

1 PARTIAL FLOOR PLAN

1/16" = 1'-0"

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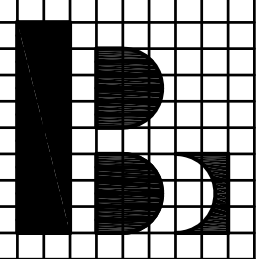
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T 770.432.9400 F 770.432.9934

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T (404) 851-9990  
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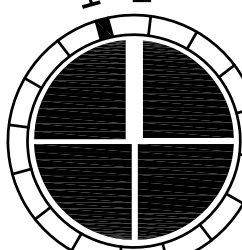
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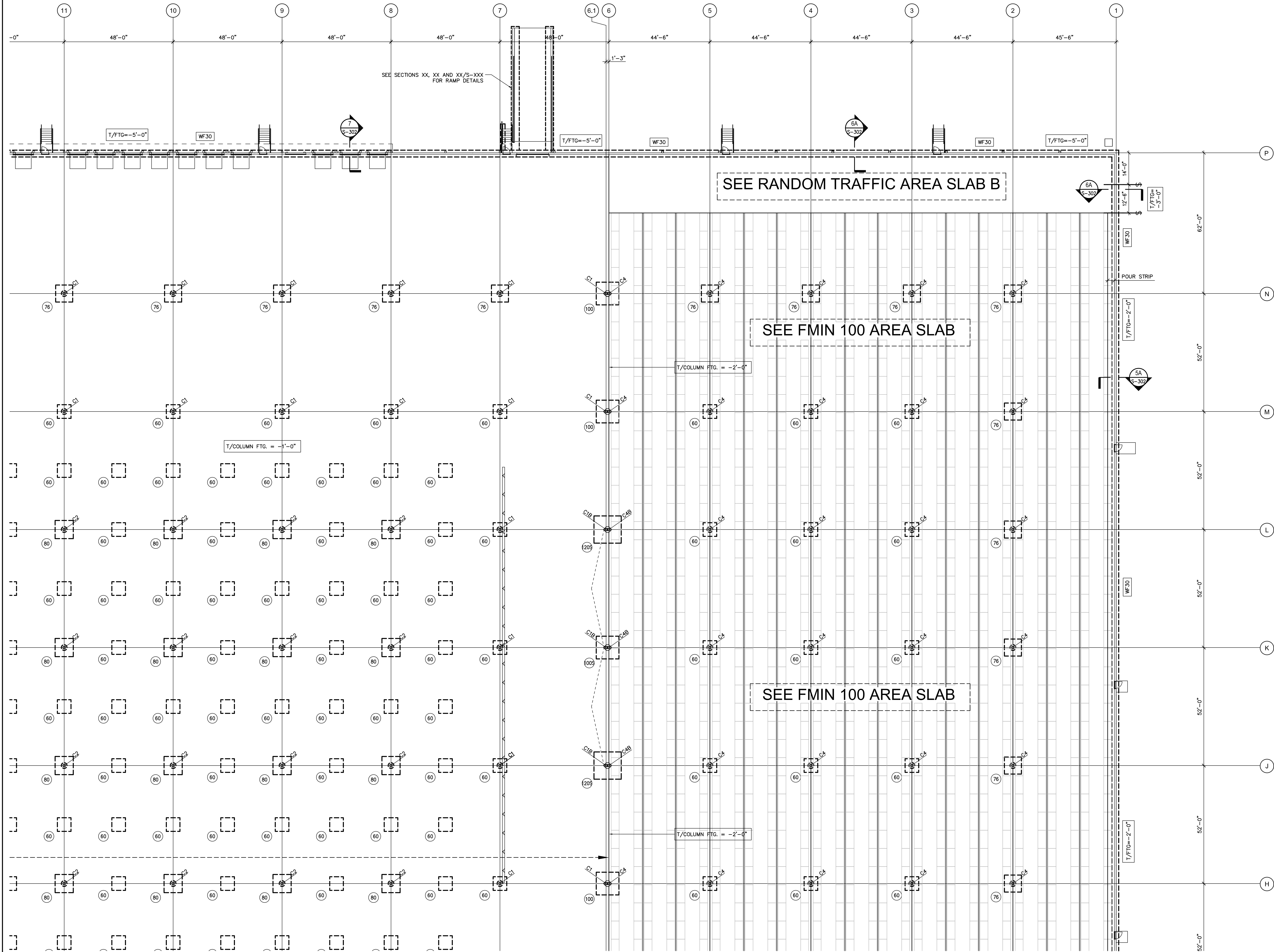
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1

PARTIAL FLOOR PLAN

1/16" = 1'-0"

S-207

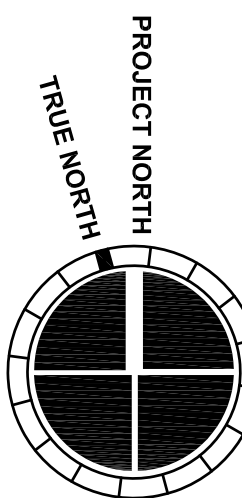
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S-206

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S-202



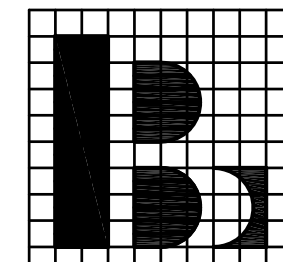
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T 770.432.9400 F 770.432.9934

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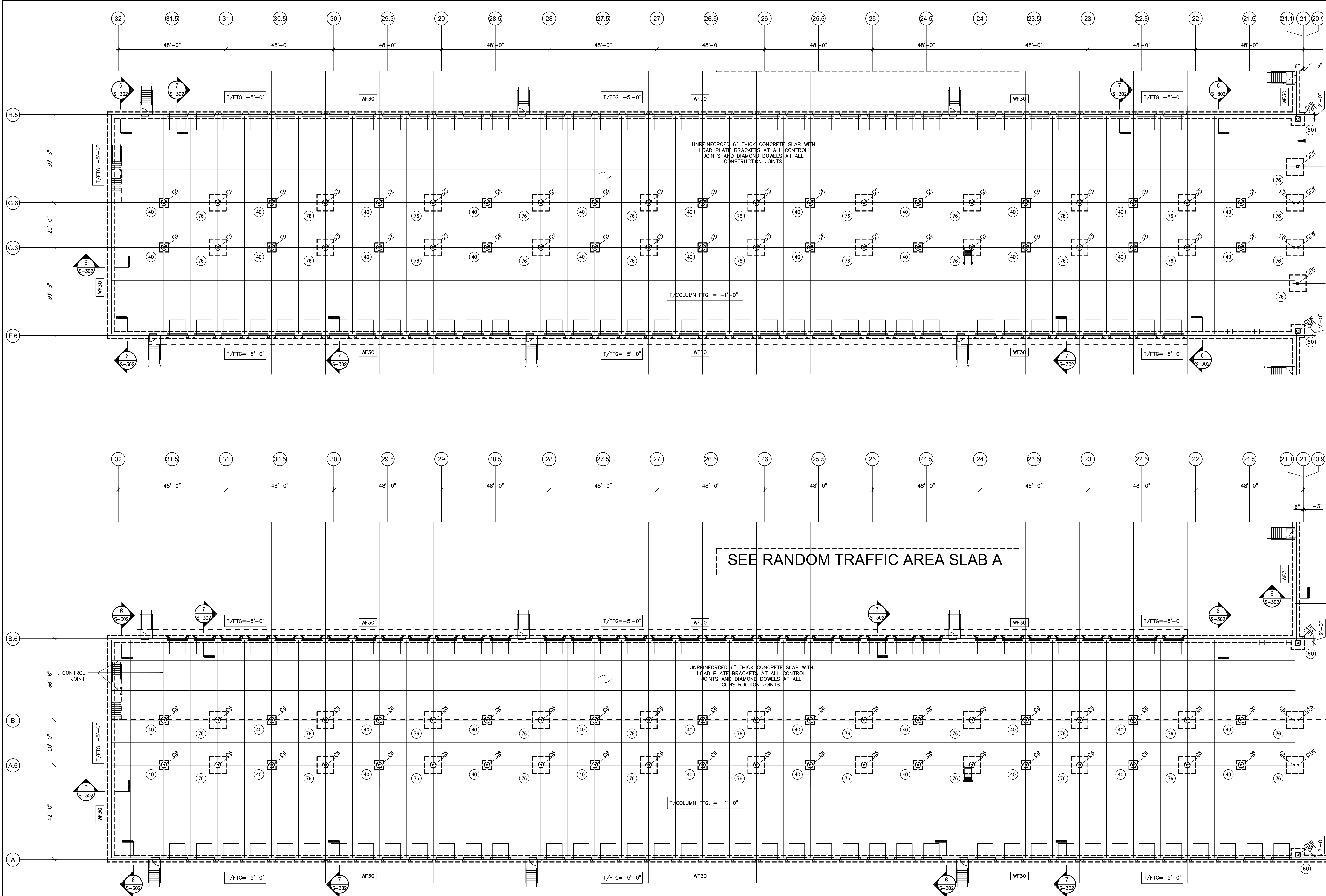
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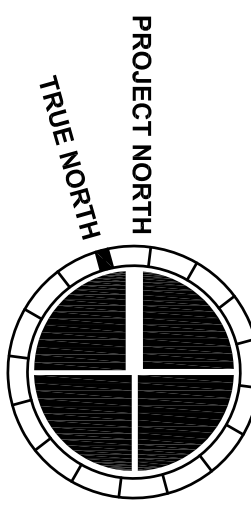
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|---|-------------------------------|
| 1 | PARTIAL FLOOR PLAN - SHIPPING |
|   | 1/16" = 1'-0"                 |

|       |       |       |
|-------|-------|-------|
| S-207 | S-204 | S-205 |
| S-206 | S-203 | S-202 |



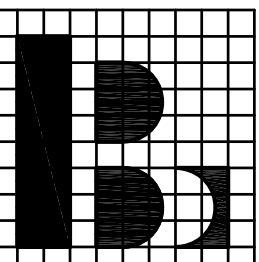
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| 07/24/13 | 2013-018    |

SHEET TITLE

PARTIAL FLOOR  
PLANS -  
SHIPPING

SHEET NUMBER

S-206

FOR CONSTRUCTION



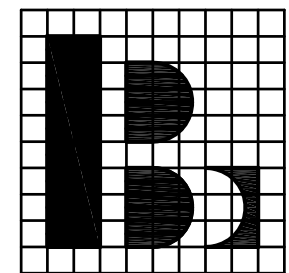
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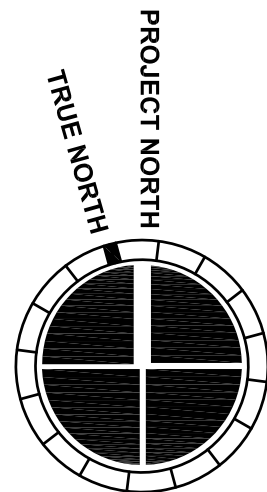
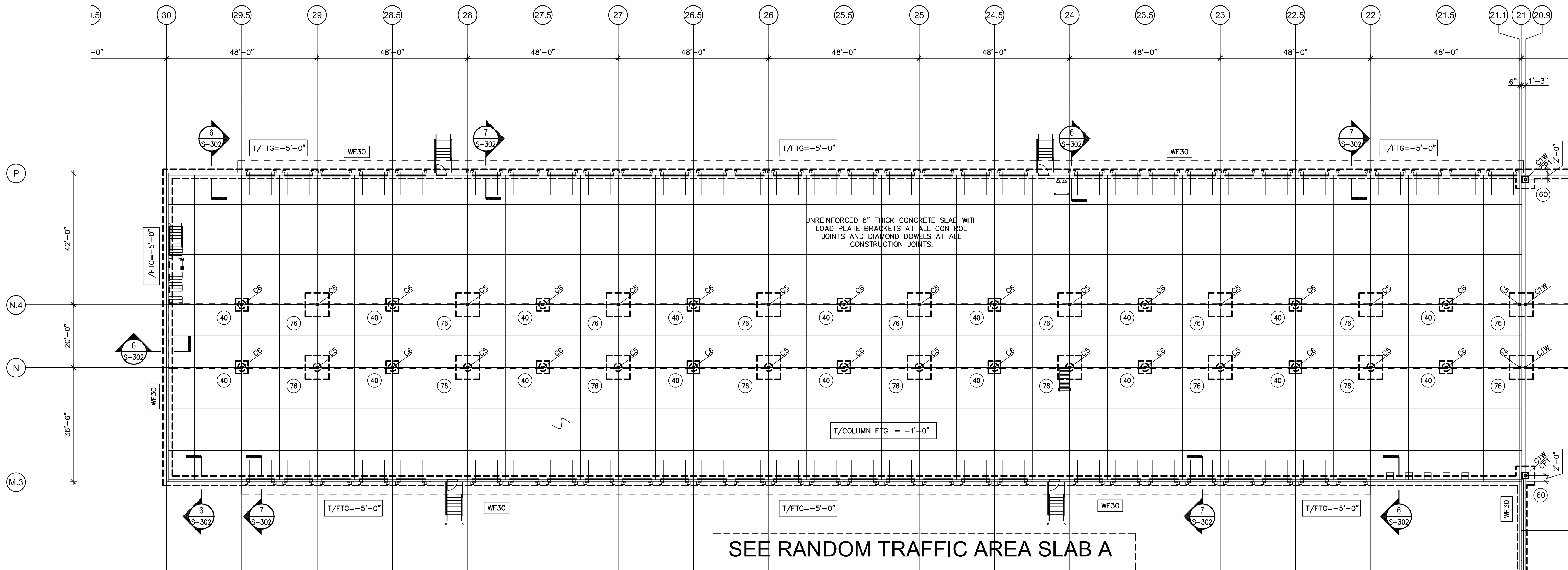
SHEET TITLE

**PARTIAL FLOOR  
PLAN -  
SHIPPING AND  
ENLARGED  
PLANS**

SHEET NUMBER

**S-207**

FOR CONSTRUCTION



|       |       |       |
|-------|-------|-------|
| S-207 | S-204 | S-205 |
| S-206 | S-203 | S-202 |

1

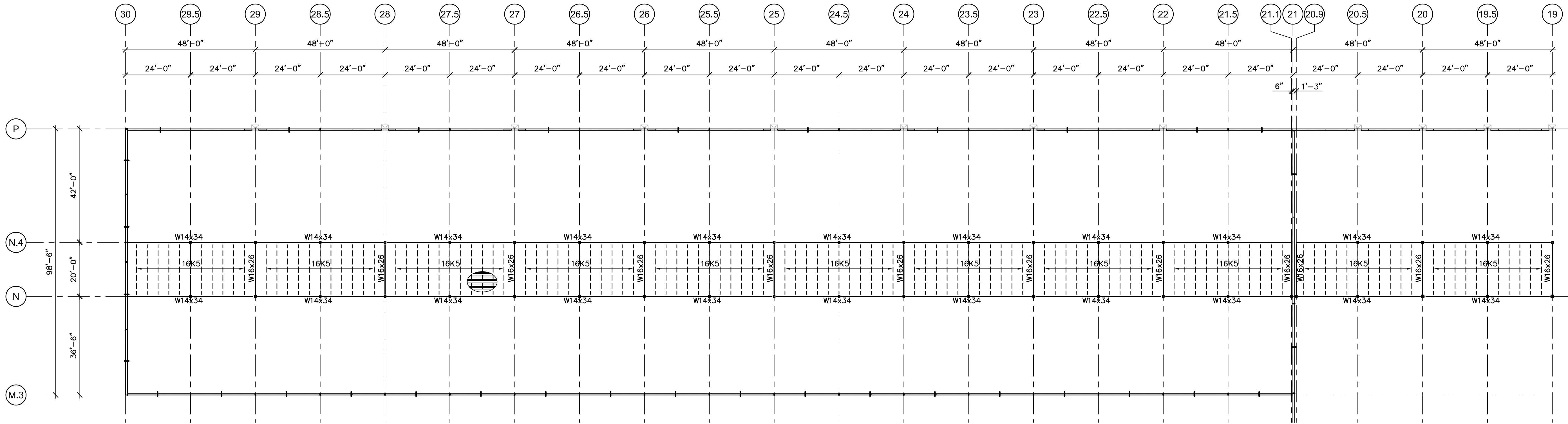
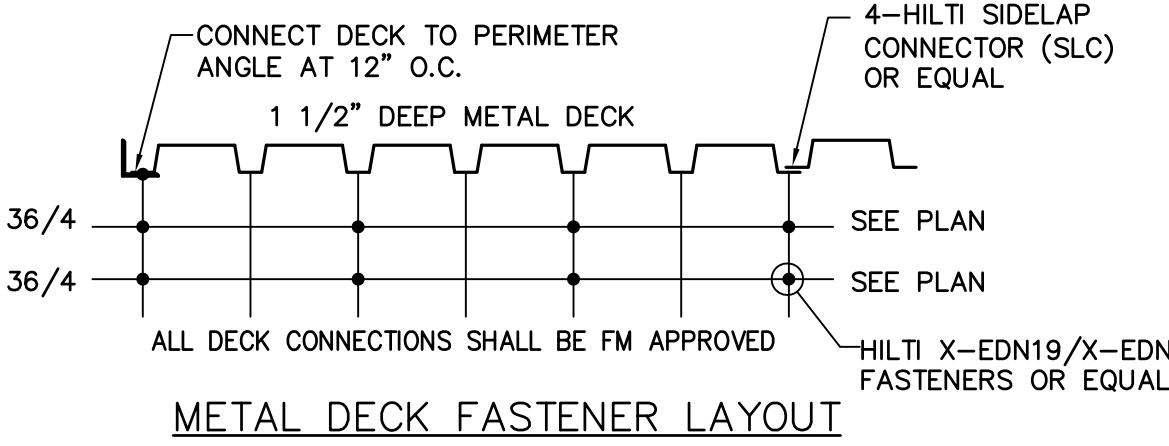
PARTIAL FLOOR PLAN

1/16" = 1'-0"

7/24/2013 10:41:26 AM

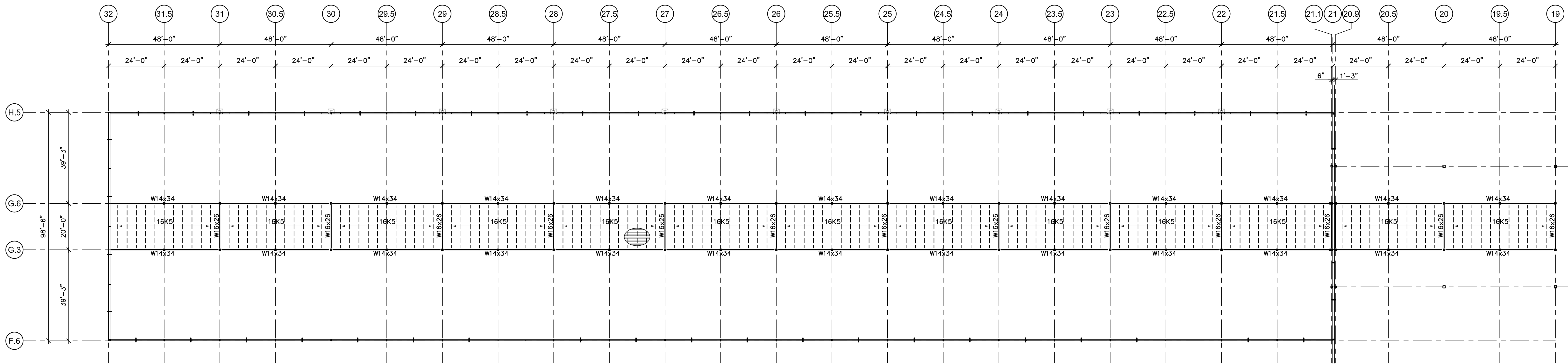
MEZZANINE PLAN NOTES:

- RESINDECK LD50 1/2" PANELS ON 1 1/2", 20GA TYPE B DECK, GALVANIZED, CONTINUOUS OVER 3 SPAN MIN. ATTACHMENTS OF PANEL TO MEZZANINE DECK BY MANUFACTURER.
- FINISHED FLOOR ELEVATION = 14'-0".



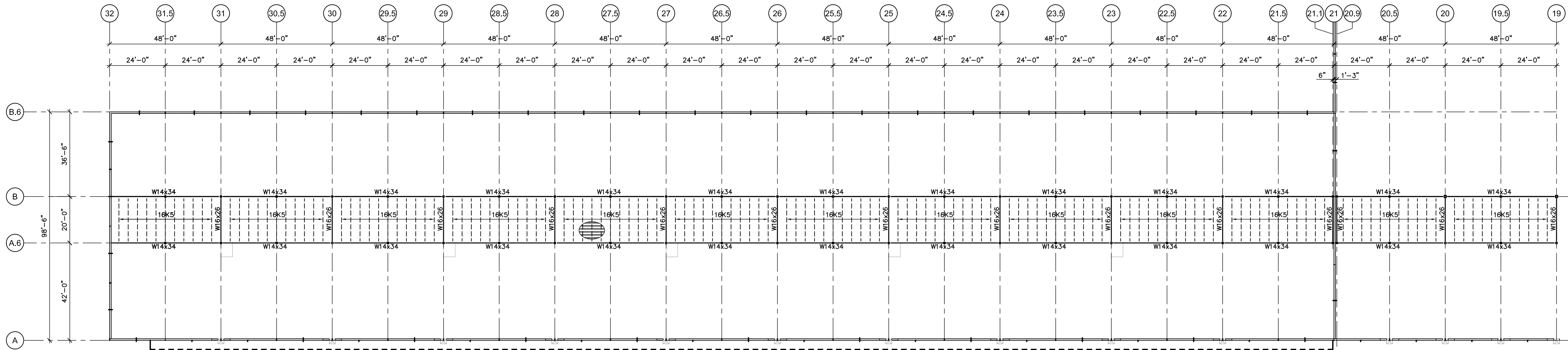
3 PARTIAL MEZZANINE FRAMING PLAN

1" = 20'-0"



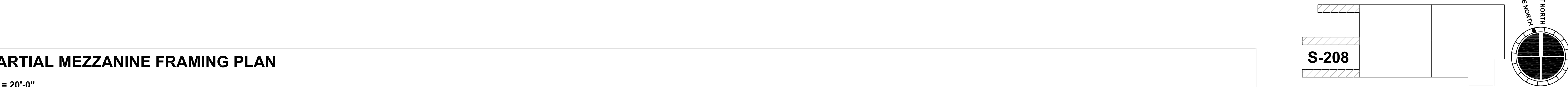
2 PARTIAL MEZZANINE FRAMING PLAN

1" = 20'-0"



1 PARTIAL MEZZANINE FRAMING PLAN

1" = 20'-0"



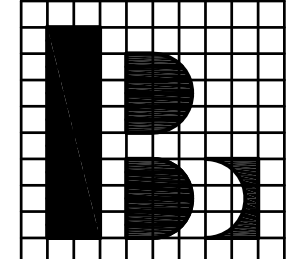
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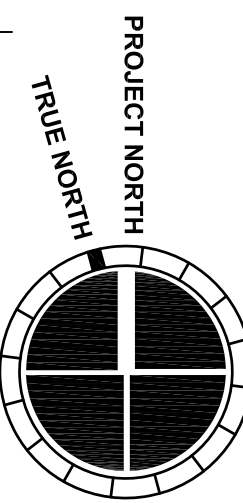
| DATE     | PROJECT NO. |
|----------|-------------|
| 07/24/13 | 2013-018    |

SHEET TITLE  
**PARTIAL  
MEZZANINE  
FRAMING PLAN**

SHEET NUMBER

**S-208**

FOR CONSTRUCTION





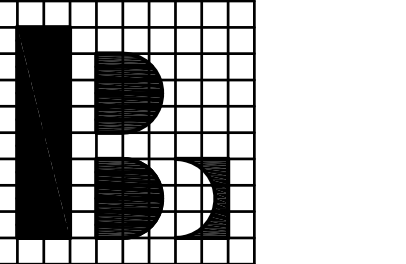
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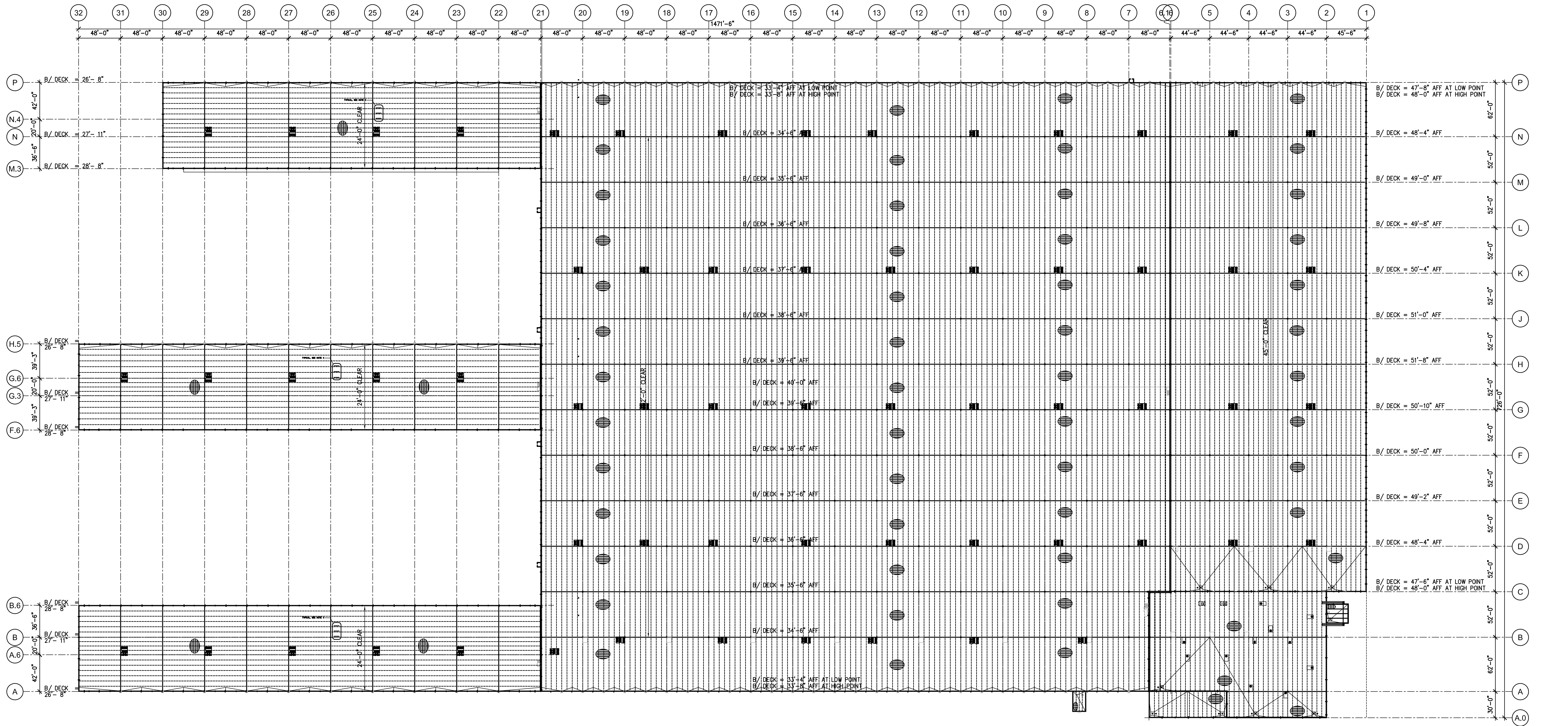
SHEET TITLE

**OVERALL  
ROOF FRAMING  
PLAN**

SHEET NUMBER

**S-211**

FOR CONSTRUCTION



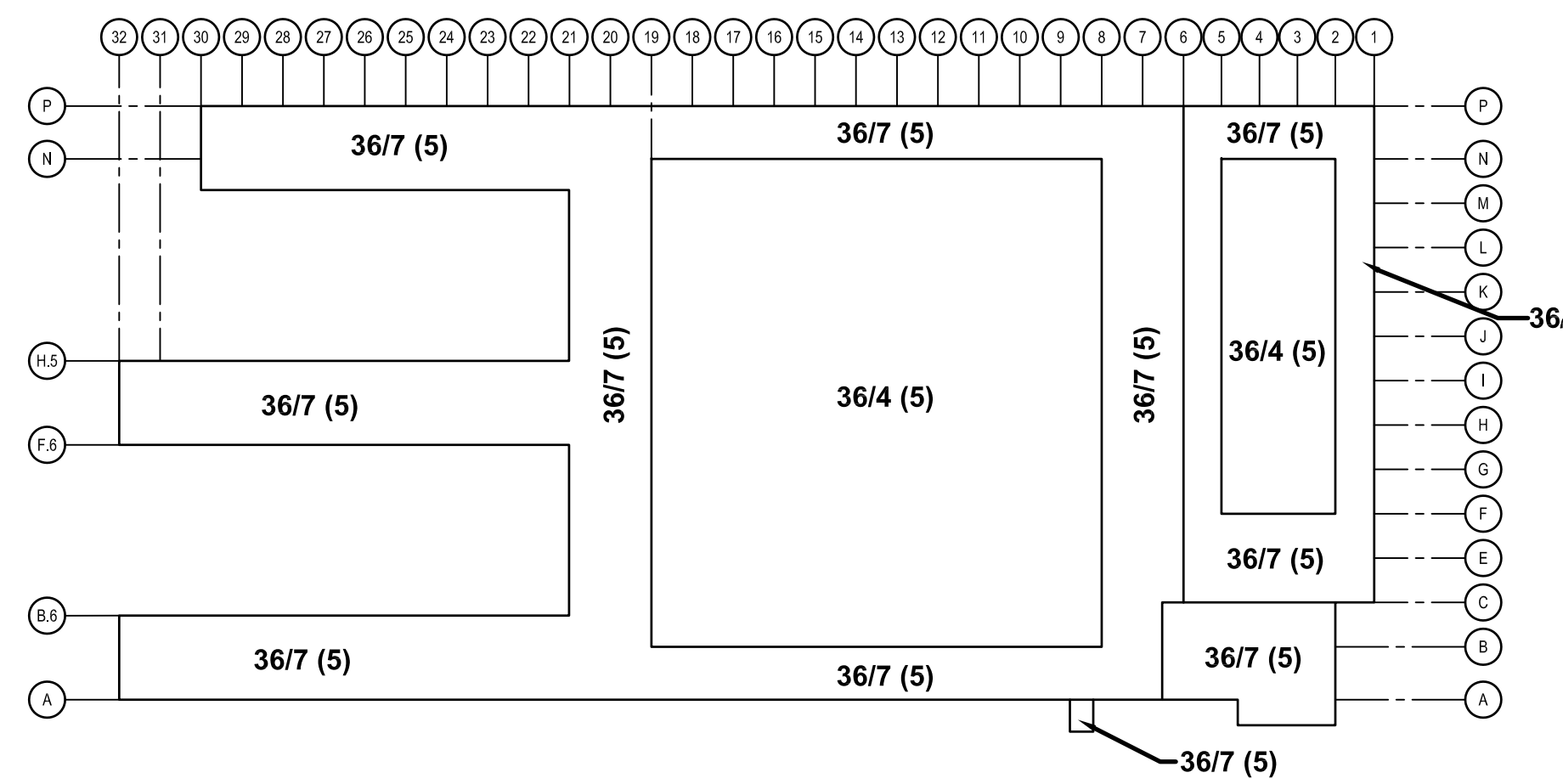
## 1 OVERALL ROOF FRAMING PLAN

1" = 50'-0"

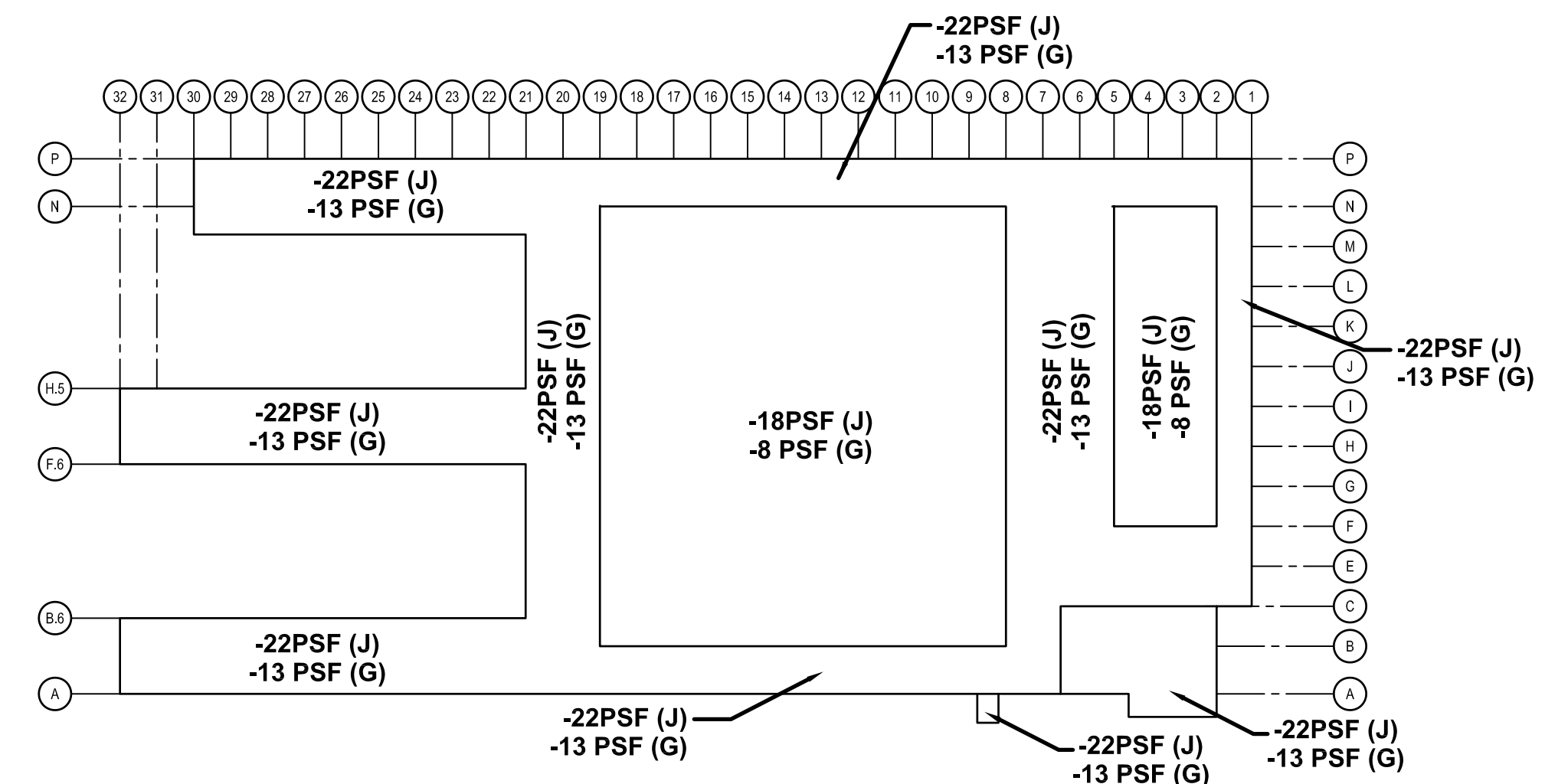
| GIRDER SCHEDULE (ASD LOADS) |            |                                        |                                     |
|-----------------------------|------------|----------------------------------------|-------------------------------------|
| MARK                        | SIZE       | MAX.<br>ALTERNATE<br>DEPTH<br>(INCHES) | ACTUAL<br>DEPTH<br>USED<br>(INCHES) |
| GA1                         | 36G5N10.0K | N/A                                    |                                     |
| GA2                         | 40G8N10.0K | N/A                                    |                                     |
| GB1                         | 54G8N12.5K | N/A                                    |                                     |
| GB2                         | 54G8N11.5K | N/A                                    |                                     |
| GB3                         | 36G4N11.5K | N/A                                    |                                     |
| GB4                         | 36G4N12.0K | N/A                                    |                                     |
| GB5                         | 48G8N12.0K | N/A                                    |                                     |
| GC1                         | 36G8N11.6K | N/A                                    |                                     |
| GC2                         | 36G8N10.6K | N/A                                    |                                     |
| GC3                         | 36G4N10.6K | N/A                                    |                                     |
| GC4                         | 36G4N6.0K  | N/A                                    |                                     |
| GD1                         | 48G8N11.6K | N/A                                    |                                     |
| GD2                         | 48G8N10.6K | N/A                                    |                                     |
| GD3                         | 35G8N9.3K  | N/A                                    |                                     |
| GE1                         | 54G8N11.6K | 60                                     |                                     |
| GE2                         | 54G8N10.6K | 60                                     |                                     |
| GE3                         | 45G8N9.3K  | N/A                                    |                                     |
| GF1                         | 54G8N11.6K | 72                                     |                                     |
| GF2                         | 54G8N10.6K | 72                                     |                                     |
| GF3                         | 54G8N9.3K  | N/A                                    |                                     |
| SELF WEIGHT NOT INCLUDED    |            |                                        |                                     |

| GIRDER SCHEDULE (ASD LOADS) |            |                                        |                                     |
|-----------------------------|------------|----------------------------------------|-------------------------------------|
| MARK                        | SIZE       | MAX.<br>ALTERNATE<br>DEPTH<br>(INCHES) | ACTUAL<br>DEPTH<br>USED<br>(INCHES) |
| GG1                         | 54G8N11.6K | 72                                     |                                     |
| GG2                         | 54G8N10.6K | 72                                     |                                     |
| GG3                         | 54G8N9.3K  | 64                                     |                                     |
| GH1                         | 54G8N11.6K | 72                                     |                                     |
| GH2                         | 54G8N10.6K | 72                                     |                                     |
| GH3                         | 54G8N9.3K  | 72                                     |                                     |
| GJ1                         | 54G8N11.6K | 72                                     |                                     |
| GJ2                         | 54G8N10.6K | 72                                     |                                     |
| GJ3                         | 54G8N9.3K  | 66                                     |                                     |
| GK1                         | 54G8N11.6K | 60                                     |                                     |
| GK2                         | 54G8N10.6K | 60                                     |                                     |
| GK3                         | 54G8N9.3K  | 58                                     |                                     |
| QL1                         | 48G8N11.6K | N/A                                    |                                     |
| QL2                         | 48G8N10.6K | N/A                                    |                                     |
| SELF WEIGHT NOT INCLUDED    |            |                                        |                                     |

| GIRDER SCHEDULE (ASD LOADS) |            |                                        |                                     |
|-----------------------------|------------|----------------------------------------|-------------------------------------|
| MARK                        | SIZE       | MAX.<br>ALTERNATE<br>DEPTH<br>(INCHES) | ACTUAL<br>DEPTH<br>USED<br>(INCHES) |
| GL3                         | 51G8N9.3K  | 72                                     |                                     |
| GM1                         | 36G8N11.6K | N/A                                    |                                     |
| GM2                         | 36G8N10.6K | N/A                                    |                                     |
| GM3                         | 43G8N9.3K  | N/A                                    |                                     |
| GN1                         | 54G8N12.5K | N/A                                    |                                     |
| GN2                         | 54G8N11.5K | N/A                                    |                                     |
| GN3                         | 35G8N10.2K | N/A                                    |                                     |
| SELF WEIGHT NOT INCLUDED    |            |                                        |                                     |

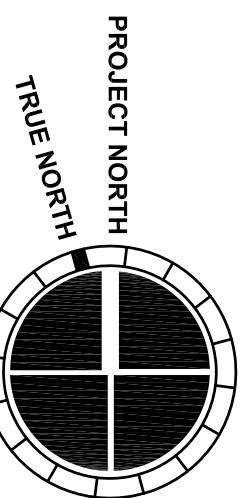


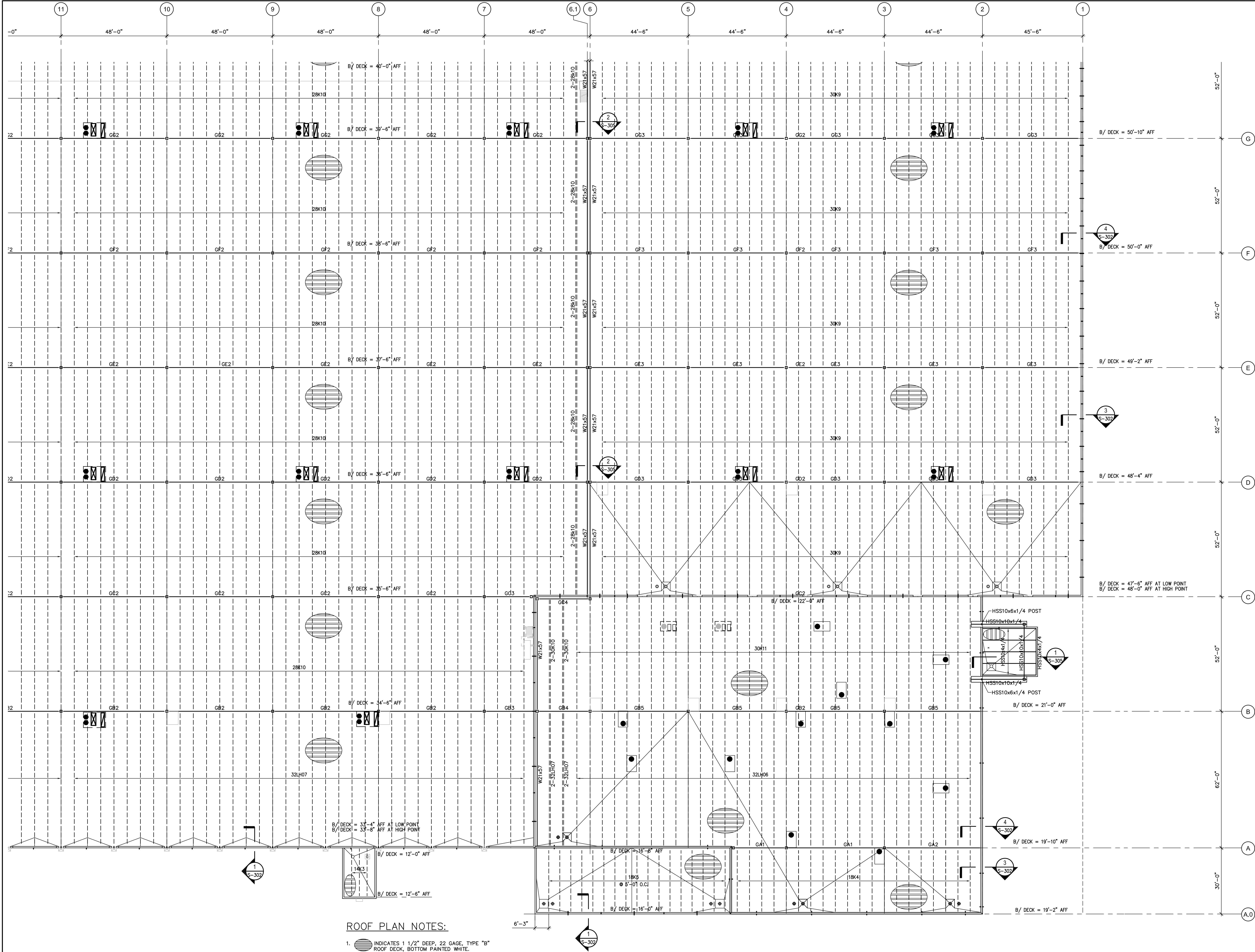
ROOF DECK ATTACHMENT



NET WIND UPLIFT FOR JOIST/JOIST  
GIRDERS (ASD LOADS)

|       |       |       |
|-------|-------|-------|
| S-217 | S-214 | S-215 |
| S-216 | S-213 | S-212 |





ROOF PLAN NOTES:

- INDICATES 1 1/2" DEEP, 22 GAGE, TYPE "B" ROOF DECK, BOTTOM PAINTED WHITE.
- 5" JOIST SEATS.
- PROVIDE DIAGONAL BRACE 2x3x3/4" FOR BOTTOM FLANGE OF BEAMS @ 10'-0" +/- AT LINES 6 AND 6.1

1

PARTIAL ROOF FRAMING PLAN

1/16" = 1'-0"

S-217

S-214

S-215

S-216

S-213

S-212



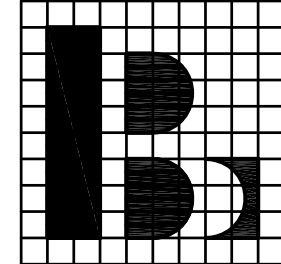
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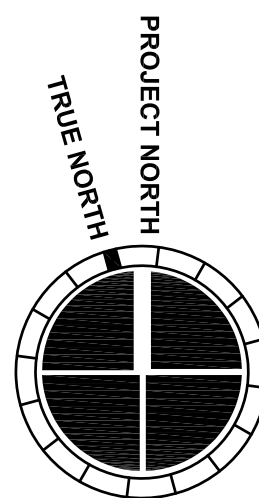
SHEET TITLE

PARTIAL ROOF  
FRAMING PLAN -  
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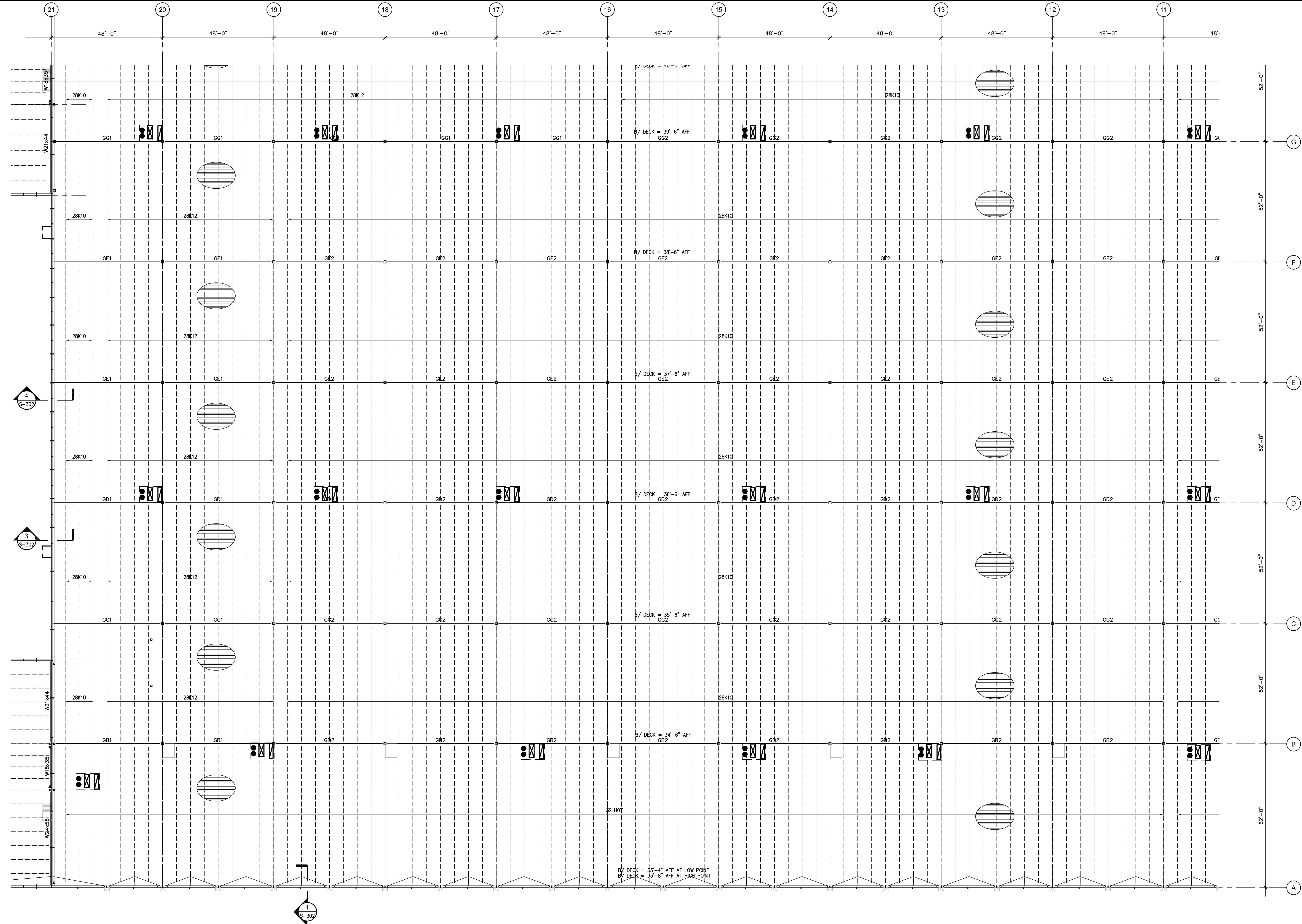
SHEET NUMBER

S-212

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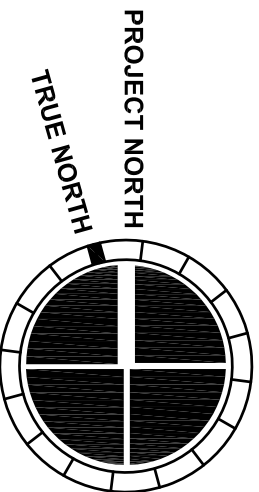
7/24/2013 10:41:26 AM



- ROOF PLAN NOTES:
- INDICATES 1 1/2" DEEP, 22 GAGE, TYPE "B" ROOF DECK, BOTTOM PAINTED WHITE.
  - 5" JOIST SEATS.
  - PROVIDE DIAGONAL BRACE  $\angle 3 \times 3 \times 1/4"$  FOR BOTTOM FLANGE OF BEAMS @ 10'-0" +/- AT LINES 6 AND 6.1

1 PARTIAL ROOF FRAMING PLAN  
1/16" = 1'-0"

|       |       |       |
|-------|-------|-------|
| S-217 | S-214 | S-215 |
| S-216 | S-213 | S-212 |



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SHEET TITLE

**PARTIAL ROOF FRAMING PLAN - RECEIVING**

SHEET NUMBER

**S-213**

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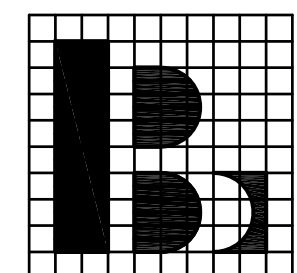


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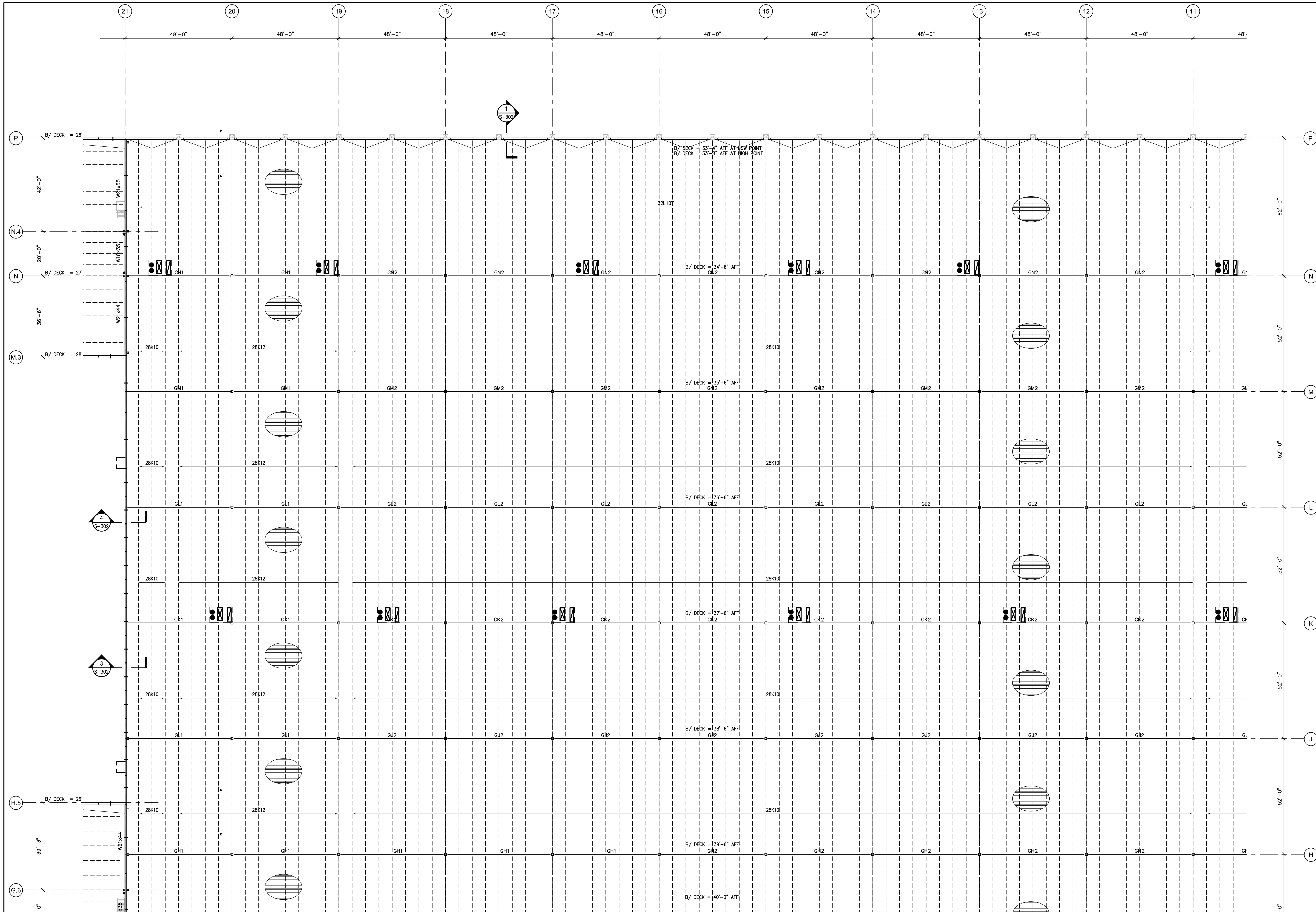
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FRAMING PLAN -  
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SHEET NUMBER

**S-214**

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ROOF PLAN NOTES:

1.  INDICATES 1 1/2" DEEP, 22 GAGE, TYPE "B" ROOF DECK, BOTTOM PAINTED WHITE.
2. 5" JOIST SEATS.
3. PROVIDE DIAGONAL BRACE  $\angle 3 \times 3 \times \frac{1}{4}$ " FOR BOTTOM FLANGE OF BEAMS @ 10'-0" +/- AT LINES 6 AND 6.1

1

## PARTIAL ROOF FRAMING PLAN

$$1/16'' = 1'-0''$$

**S-217**

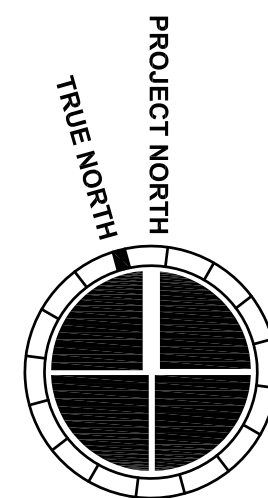
**S-214**

**S-215**

**S-216**

**S-213**

**S-212**



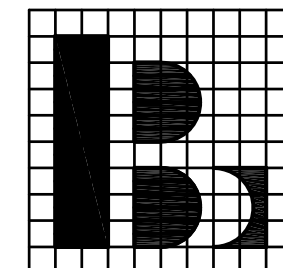


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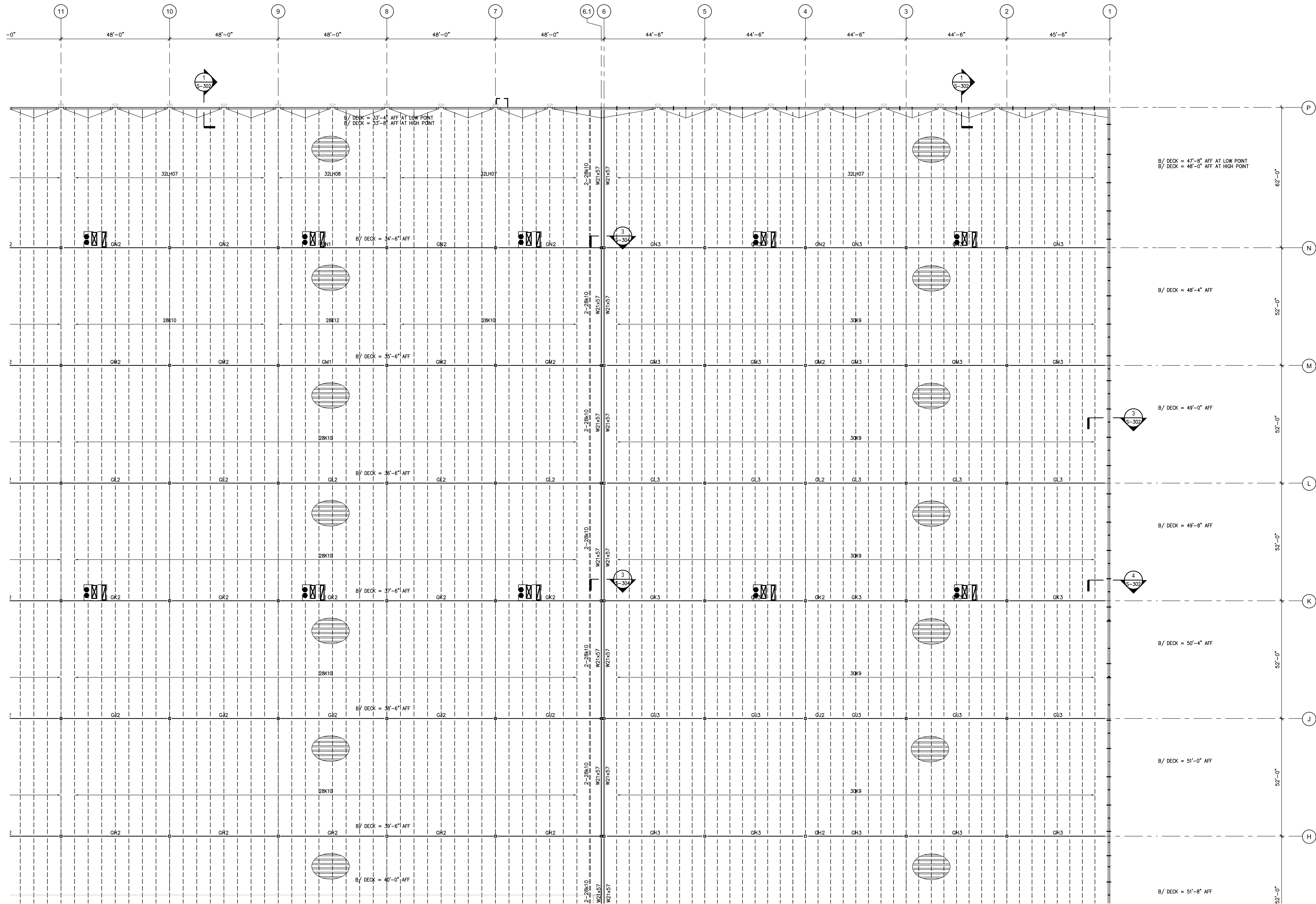
SHEET TITLE \_\_\_\_\_

**PARTIAL ROOF  
FRAMING PLAN -  
RECEIVING**

SHEET NUMBER

**S-215**

**FOR CONSTRUCTION**



ROOF PLAN NOTES:

1.  INDICATES 1 1/2" DEEP, 22 GAGE, TYPE "B" ROOF DECK, BOTTOM PAINTED WHITE.
2. 5" JOIST SEATS.
3. PROVIDE DIAGONAL BRACE  $\angle 3 \times 3 \times \frac{1}{4}$ " FOR BOTTOM FLANGE OF BEAMS @ 10'-0"  $\pm$  AT LINES 6 AND 6.1

1

## PARTIAL ROOF FRAMING PLAN

$$1/16'' = 1'-0''$$

**S-217**

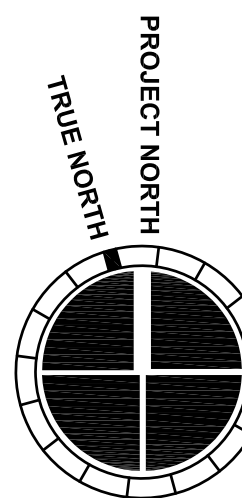
**S-214**

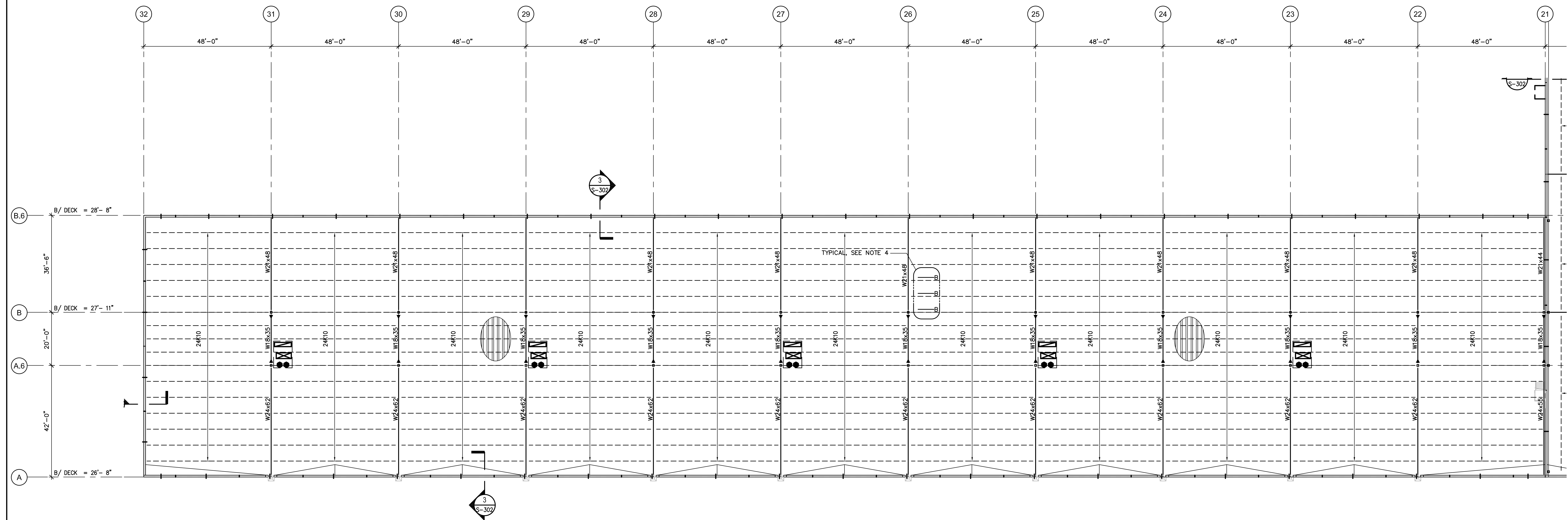
**S-215**

**S-216**

**S-213**

**S-212**





1.  INDICATES 1 1/2" DEEP, 22 GAGE, TYPE "B" ROOF DECK, BOTTOM PAINTED WHITE.
2. 5" JOIST SEATS.
3. PROVIDE DIAGONAL BRACE  $\angle 3x3 \times \frac{3}{4}$ " FOR BOTTOM FLANGE OF BEAMS @ 10'-0" +/- AT LINES 6 AND 6.1
3. PROVIDE L2-1/2x2-1/2x3/16 BRACE FROM BOTTOM CHORD OF JOIST TO BOTTOM FLANGE OF GIRDER



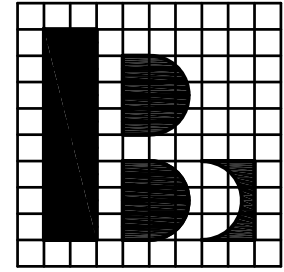
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ARCHITECTS

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Atlanta, Georgia 30339  
T 770.432.9400 F 770.432.9934

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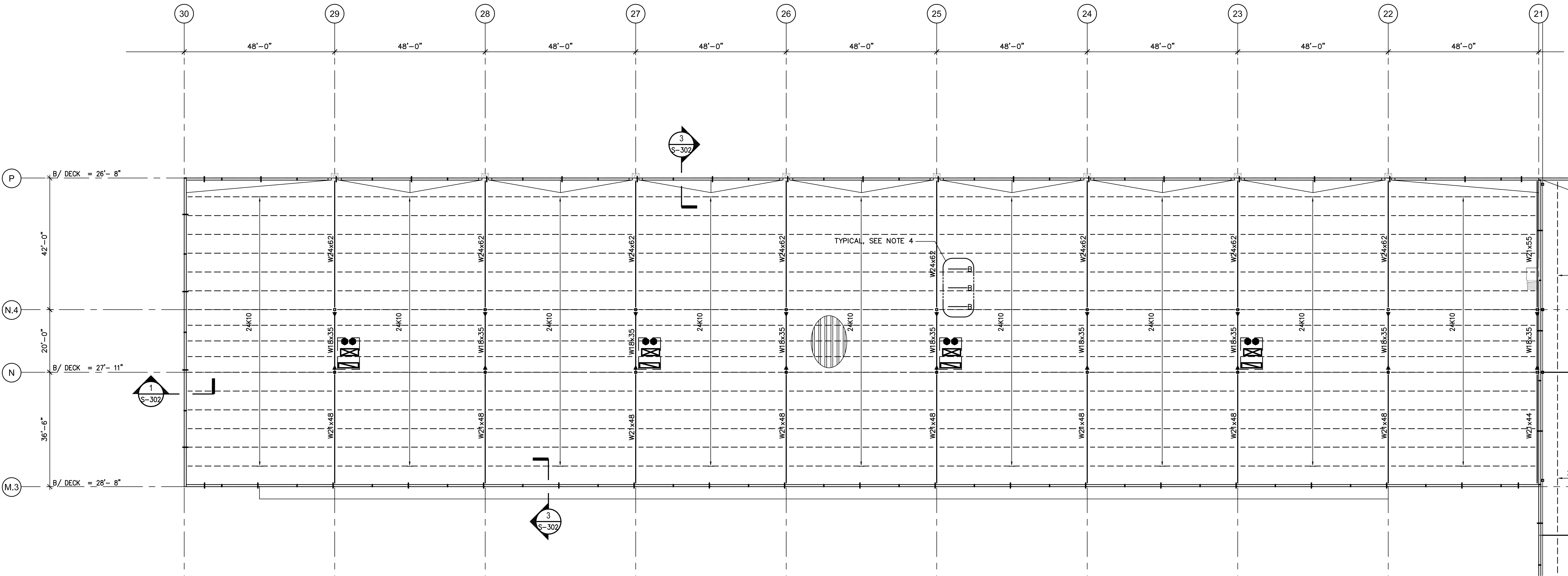
SHEET TITLE

**PARTIAL ROOF  
FRAMING PLAN -  
SHIPPING AND  
ENLARGED  
PLANS**

SHEET NUMBER

**S-217**

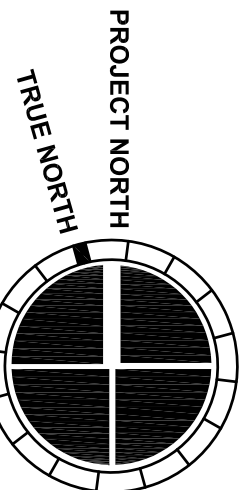
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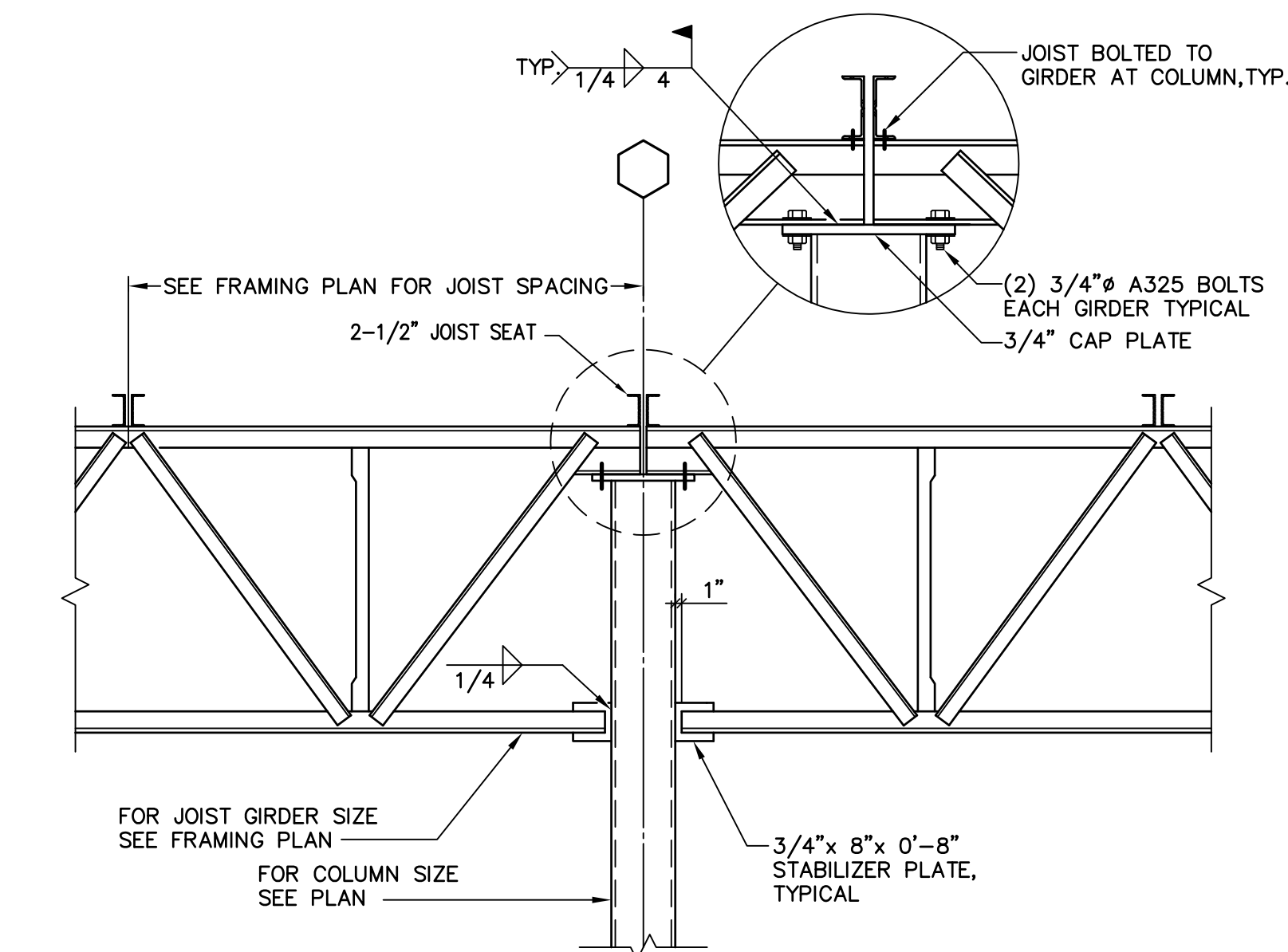


ROOF PLAN NOTES:

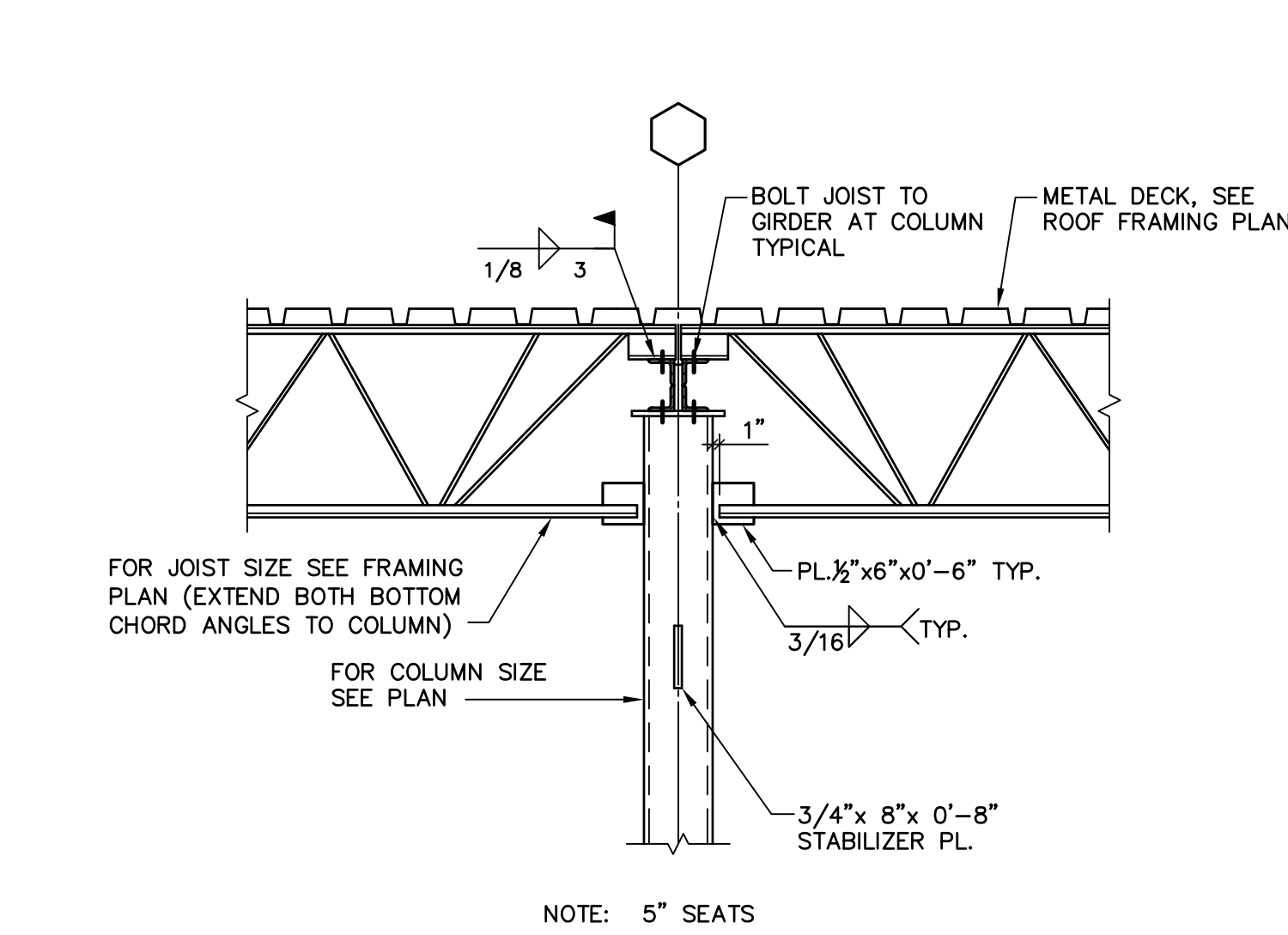
- INDICATES 1 1/2" DEEP, 22 GAGE, TYPE "B" ROOF DECK, BOTTOM PAINTED WHITE.
- 5" JOIST SEATS.
- PROVIDE DIAGONAL BRACE  $\angle 3 \times 3 \times \frac{1}{4}$ " FOR BOTTOM FLANGE OF BEAMS @ 10'-0" +/- AT LINES 6 AND 6.1
- PROVIDE L2-1/2x2-1/2x3/16 BRACE FROM BOTTOM CHORD OF JOIST TO BOTTOM FLANGE OF GIRDER

|       |       |       |
|-------|-------|-------|
| S-217 | S-214 | S-215 |
| S-216 | S-213 | S-212 |

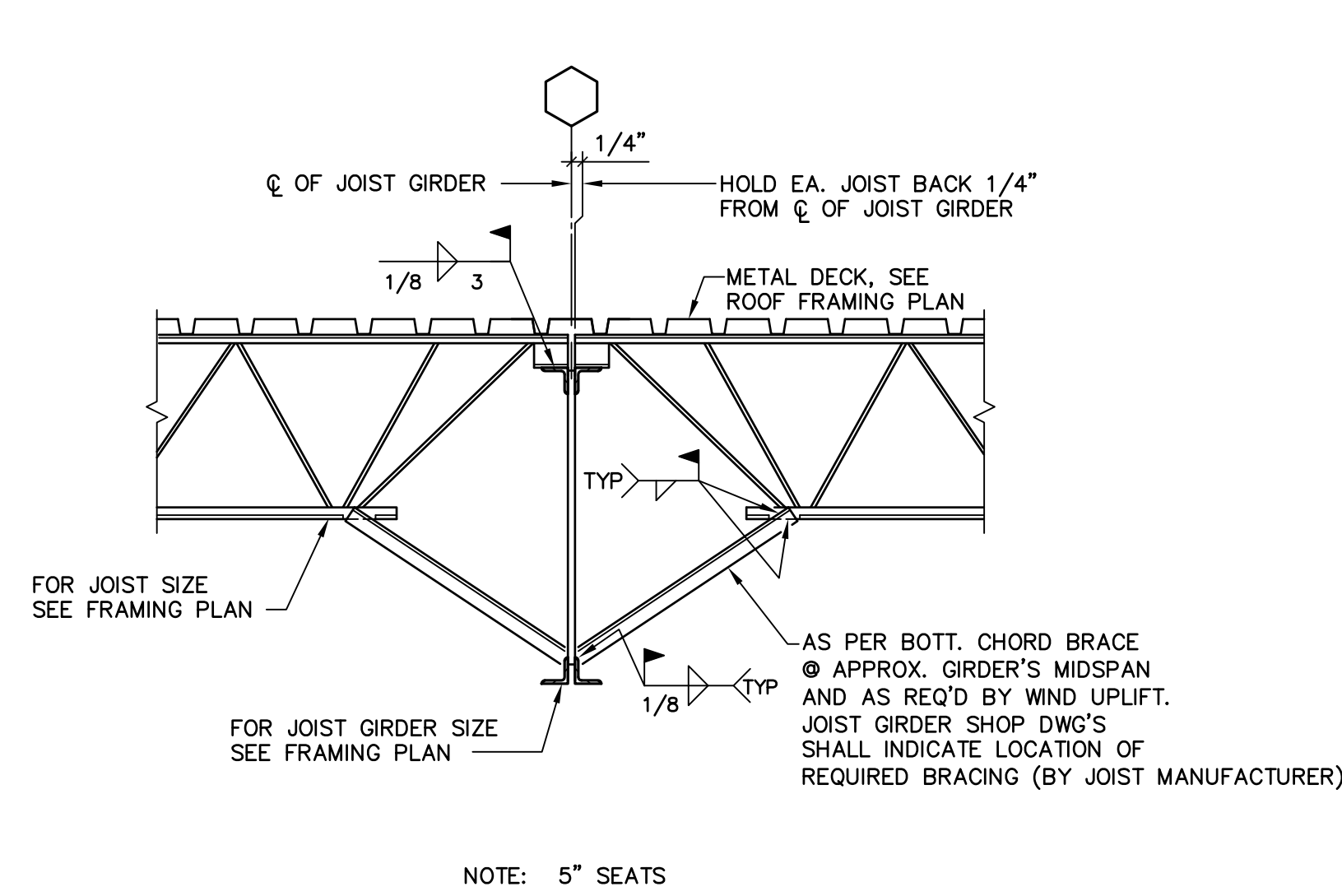




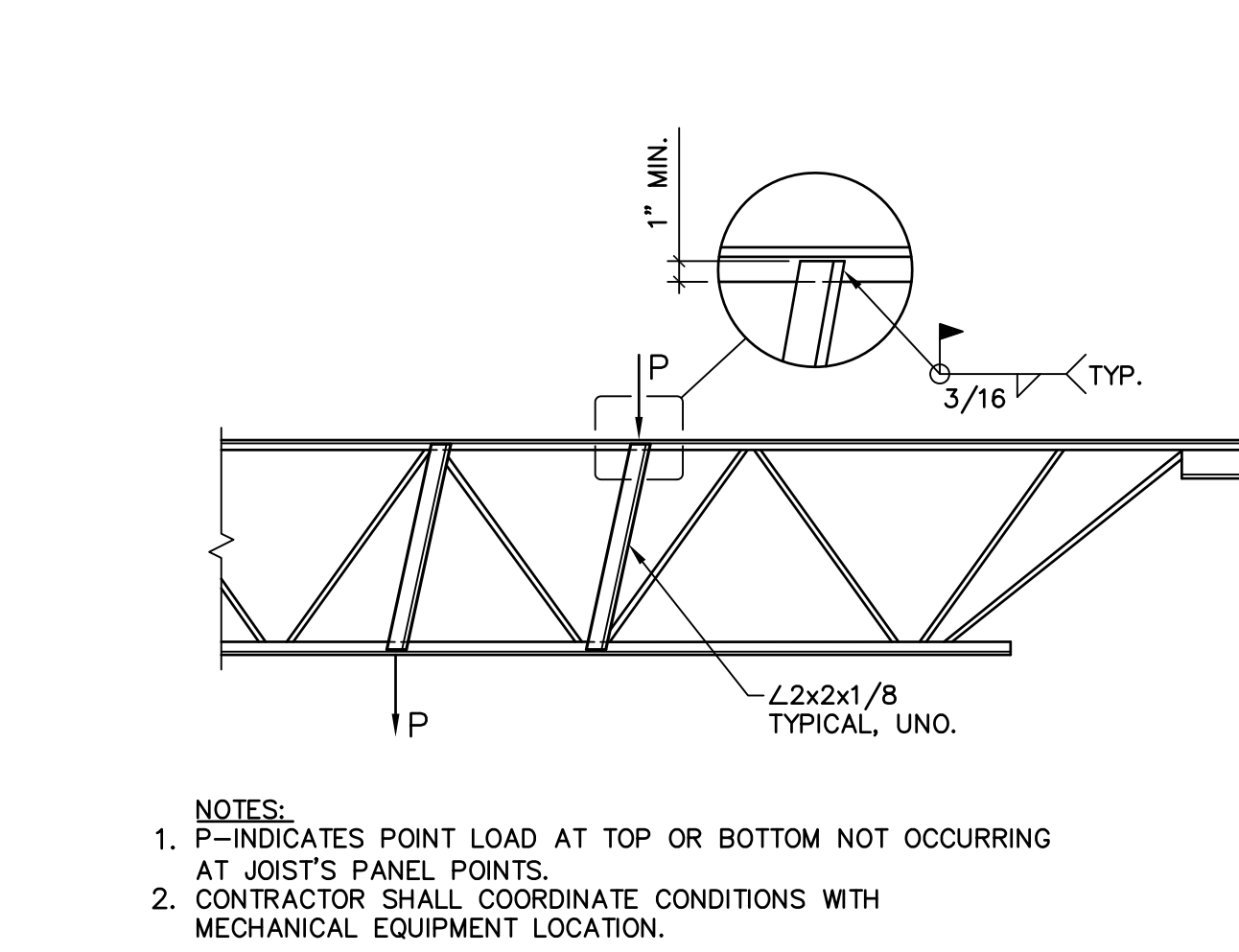
1 TYPICAL GIRDER TO COLUMN CONNECTION  
SCALE: 1/2"=1'-0"



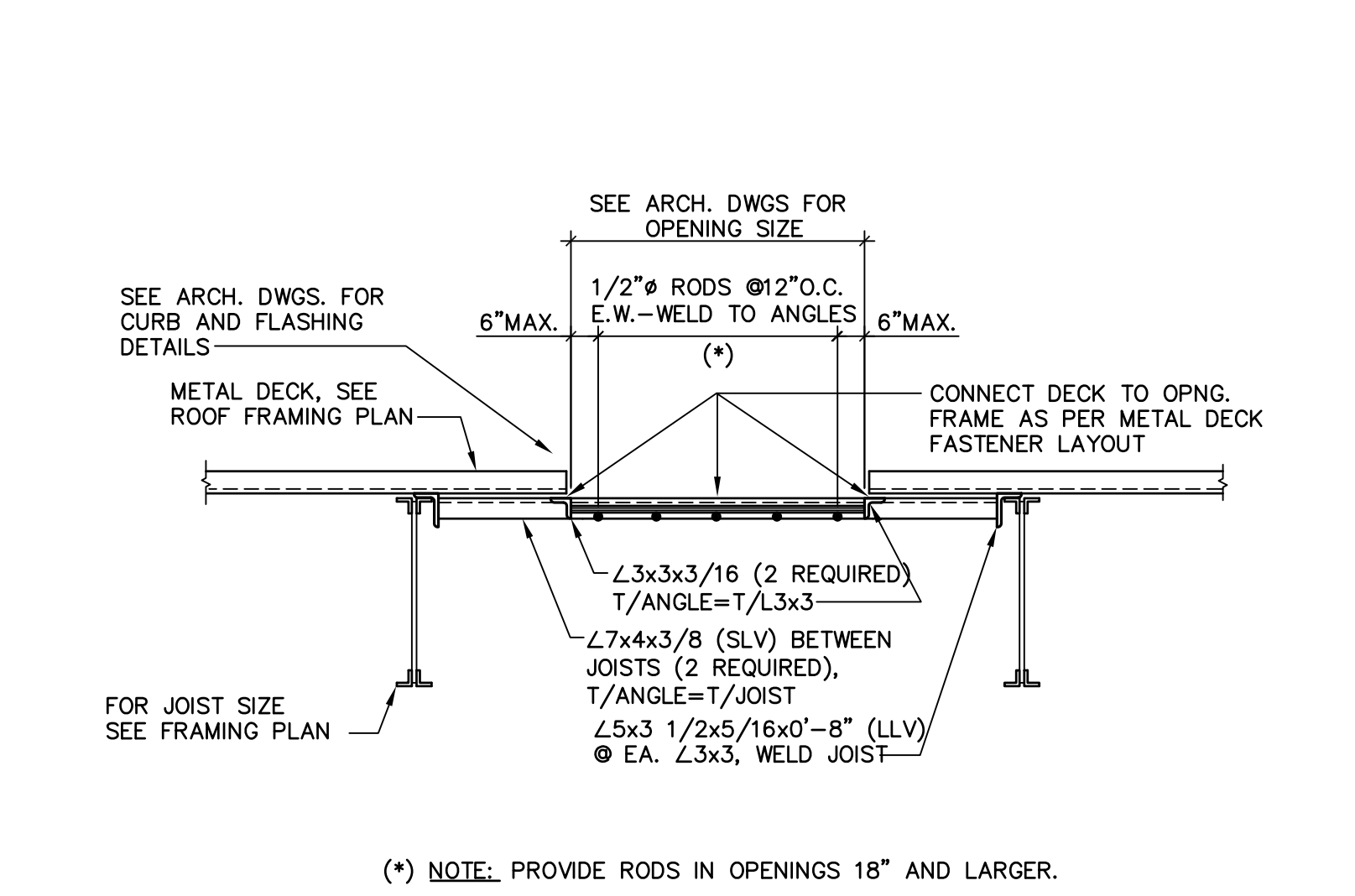
2 TYPICAL JOIST TO GIRDER CONNECTION @ COLUMN  
SCALE: 1/2"=1'-0"



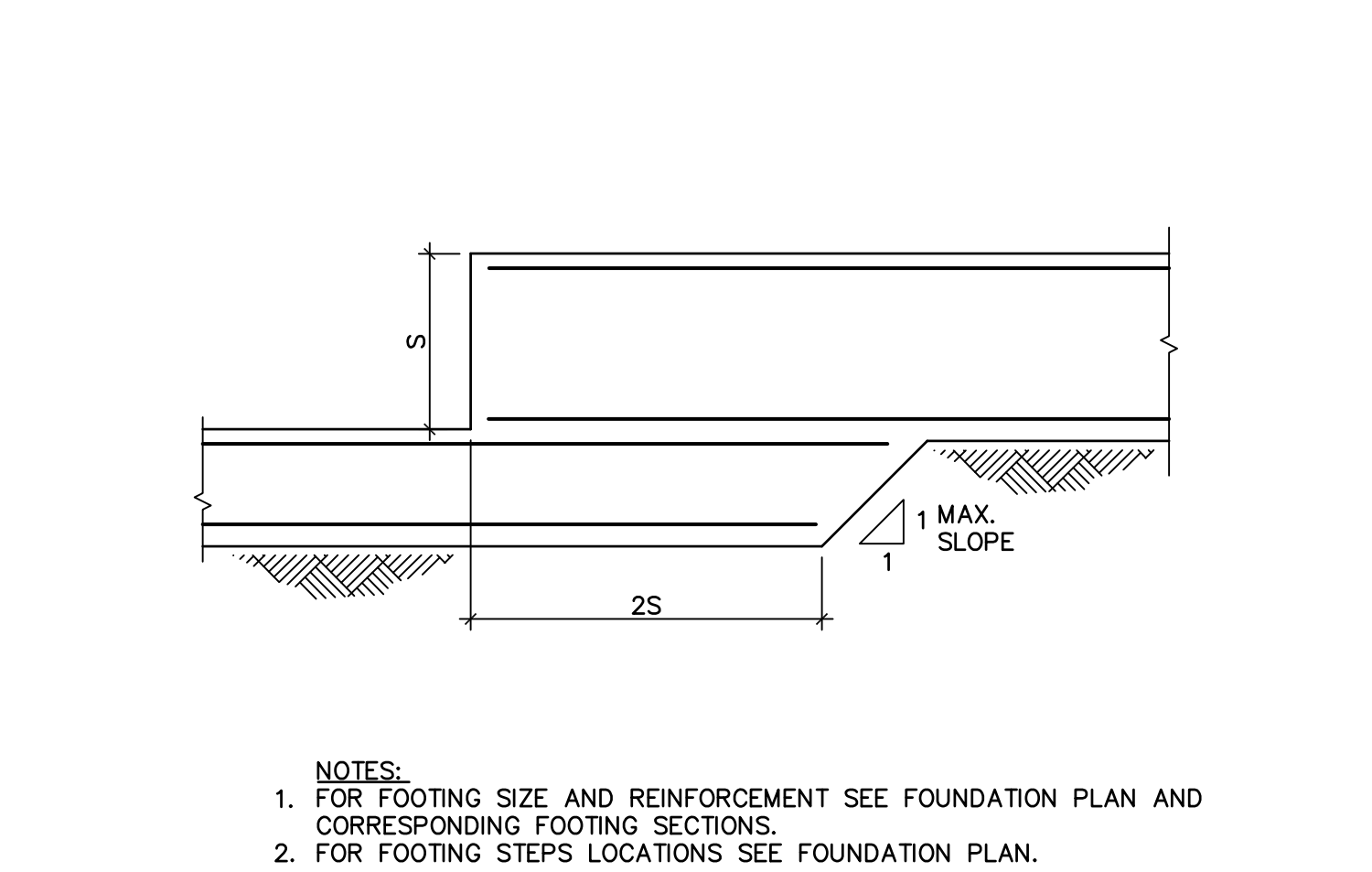
3 TYPICAL JOIST TO GIRDER CONNECTION DETAIL  
SCALE: 1/2"=1'-0"



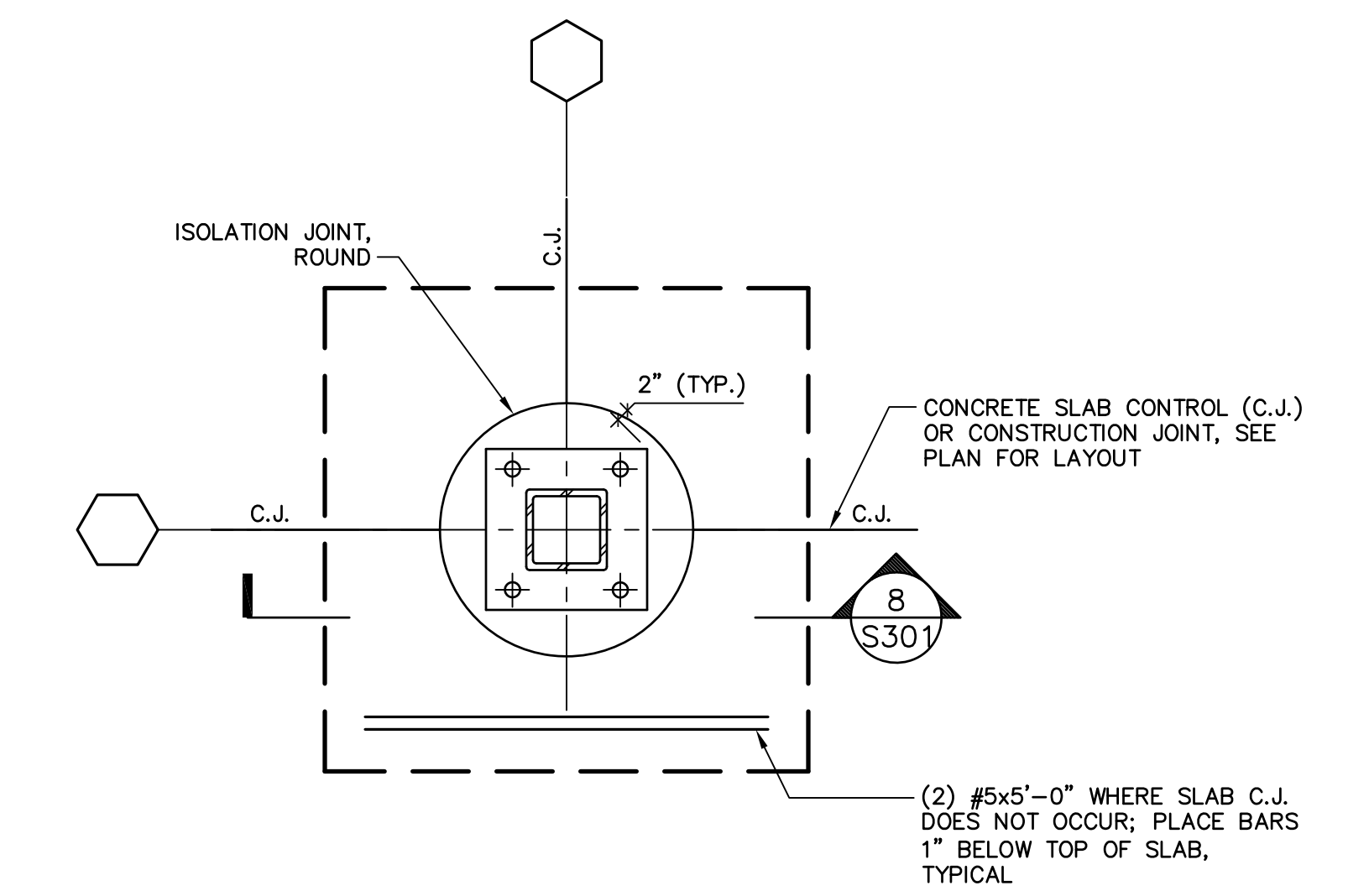
4 TYPICAL JOIST REINFORCEMENT @ POINT LOADS  
SCALE: 1/2"=1'-0"



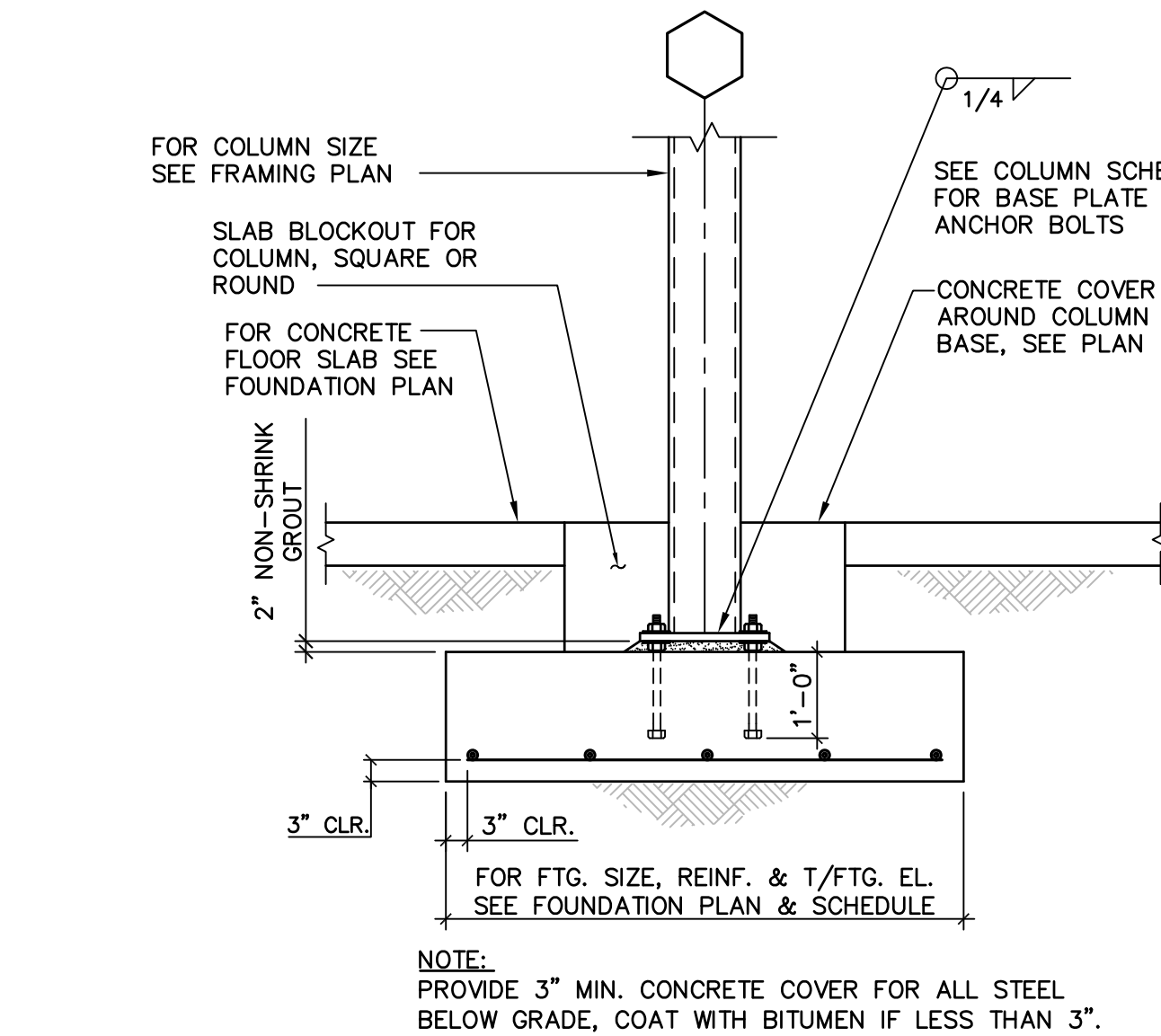
5 TYPICAL ROOF OPENING DETAIL  
SCALE: 1/2"=1'-0"



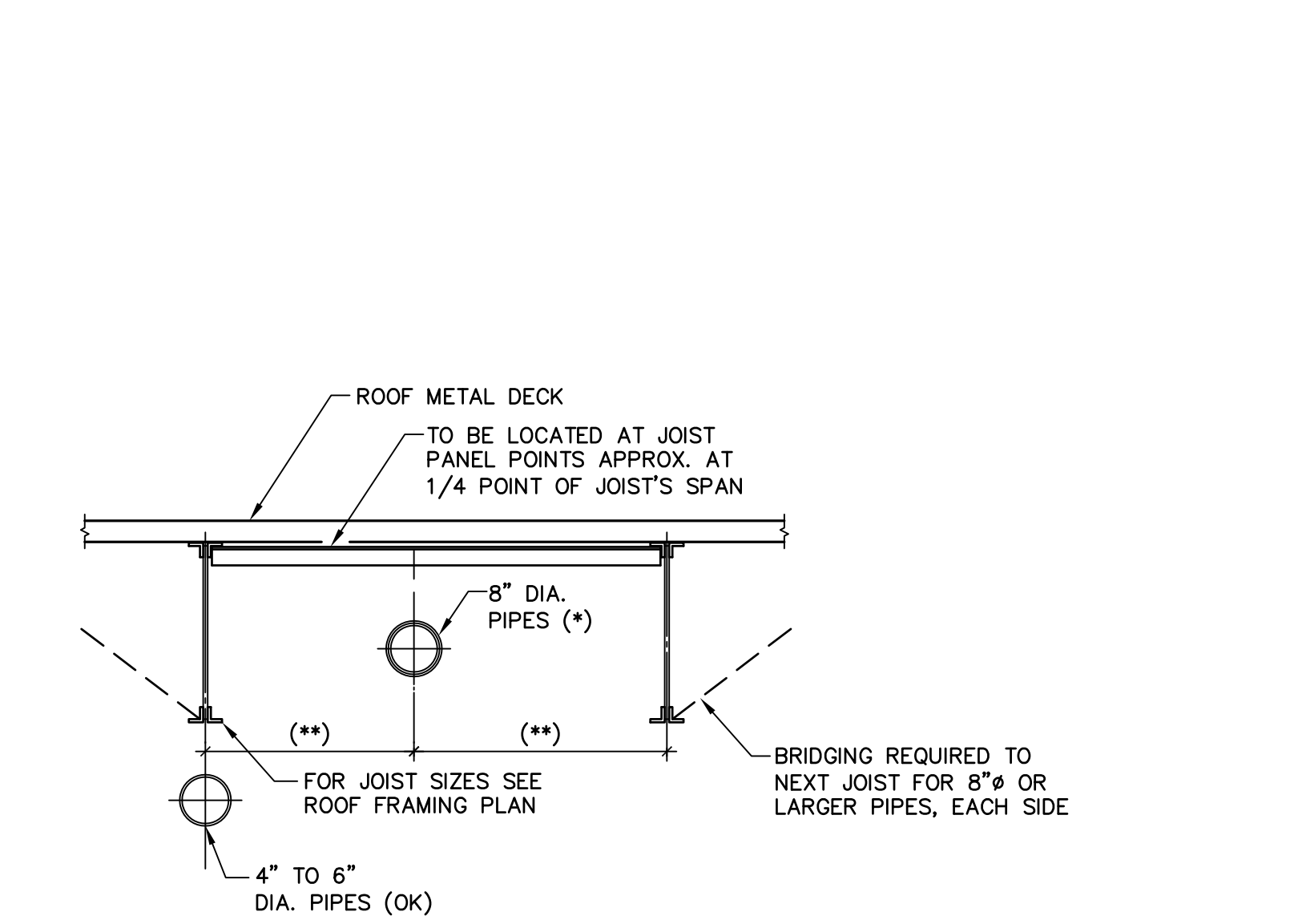
6 TYPICAL STEPPED FOOTING  
SCALE: 1/2"=1'-0"



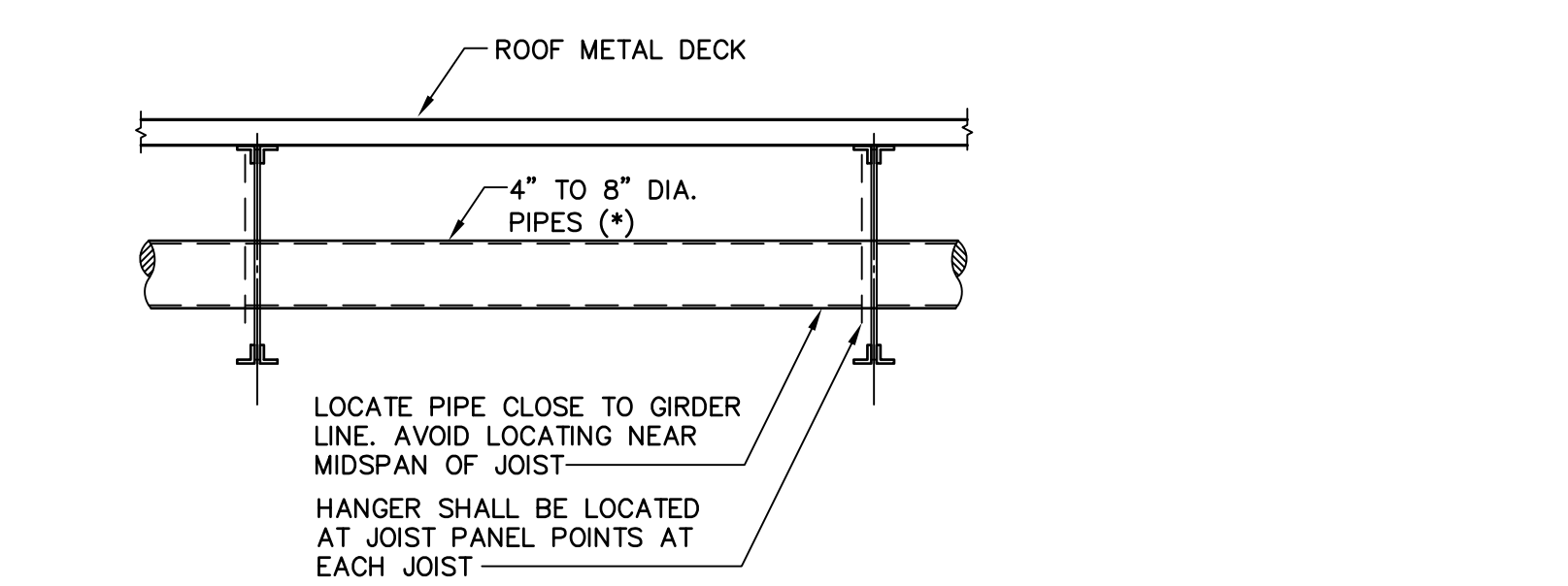
7 TYPICAL ISOLATION JOINT  
SCALE: 1/2"=1'-0"



8 TYPICAL COLUMN FOOTING  
SCALE: 1/2"=1'-0"



PIPE PARALLEL TO JOISTS



PIPE PERPENDICULAR TO JOISTS

NOTES:  
(\*) - FOR 10" AND 12" DIA. PIPES, THE LOCATIONS SHALL BE COORDINATED WITH STEEL SHOP DWGS. AND THEIR WEIGHT ADDED TO THE DESIGN OF THE AFFECTED JOISTS. ASSUMED WEIGHT OF PIPES W/ WATER ARE 75 AND 99 P/LF. RESPECTIVELY  
(\*\*) - LOCATE PIPE TO AVOID CONFLICT WITH GIRDER WEB MEMBERS.

9 TYPICAL SPRINKLER MAIN SUPPORT  
SCALE: 1/2"=1'-0"



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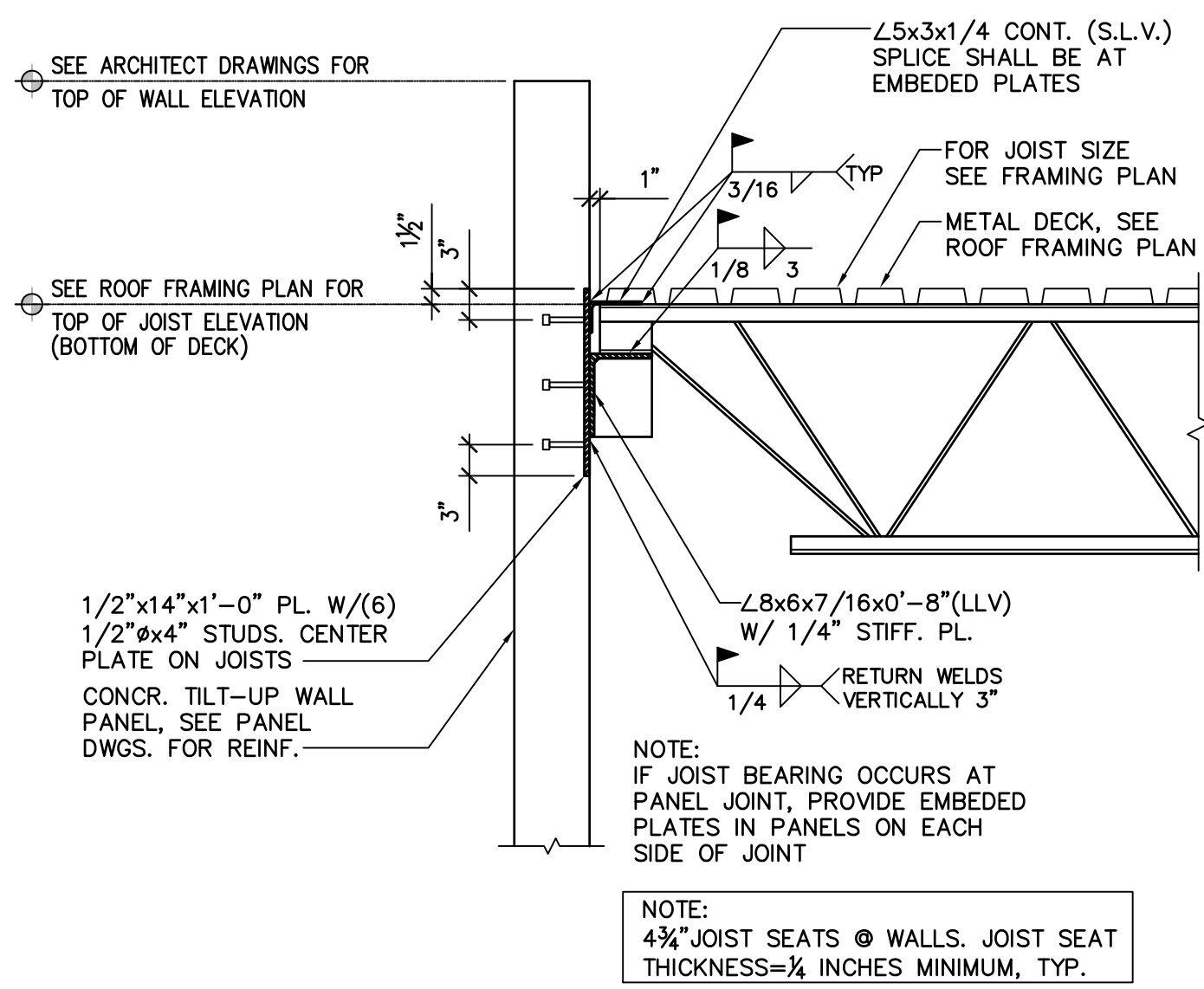
SHEET TITLE

**SECTIONS AND DETAILS**

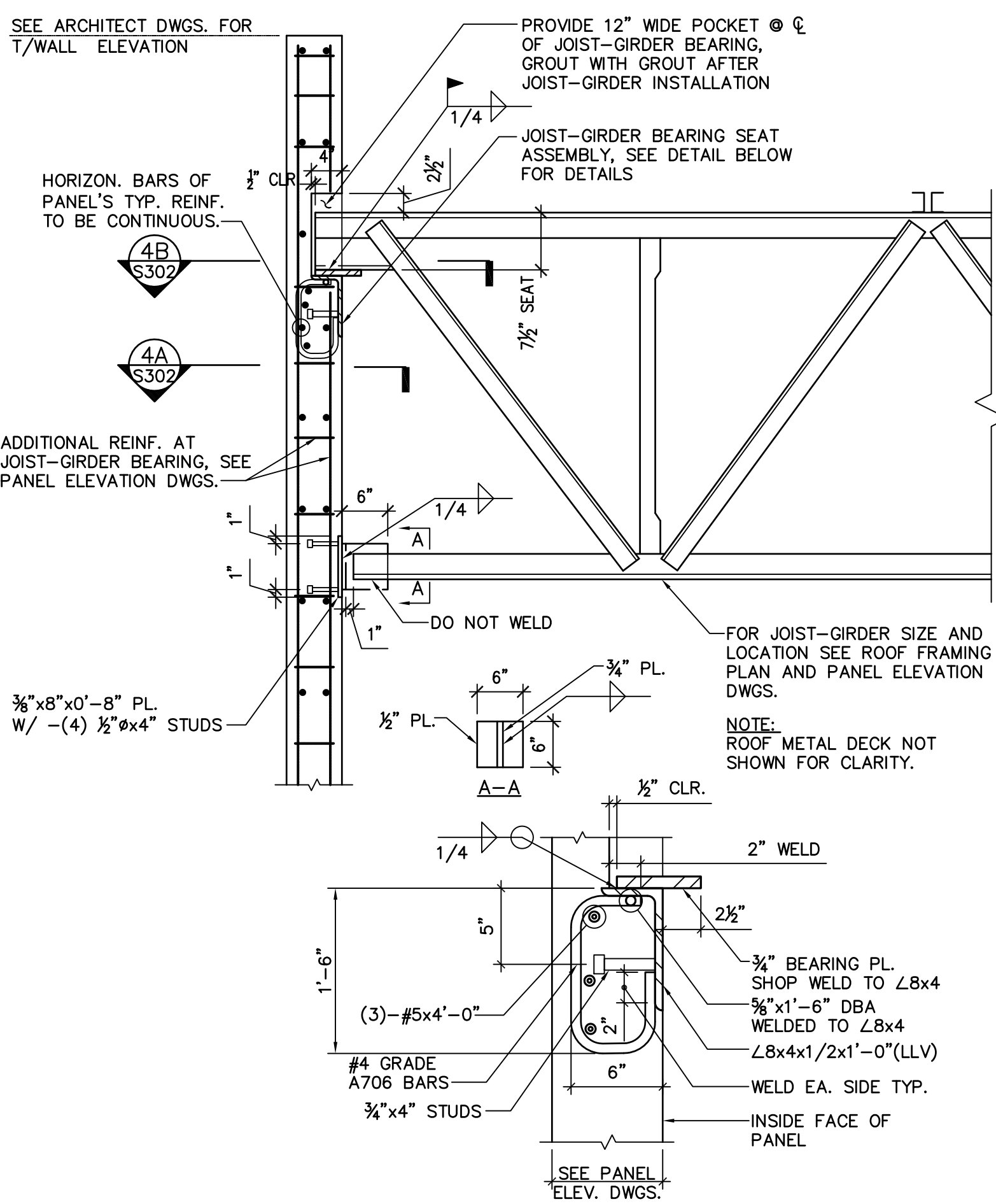
SHEET NUMBER

**S-301**

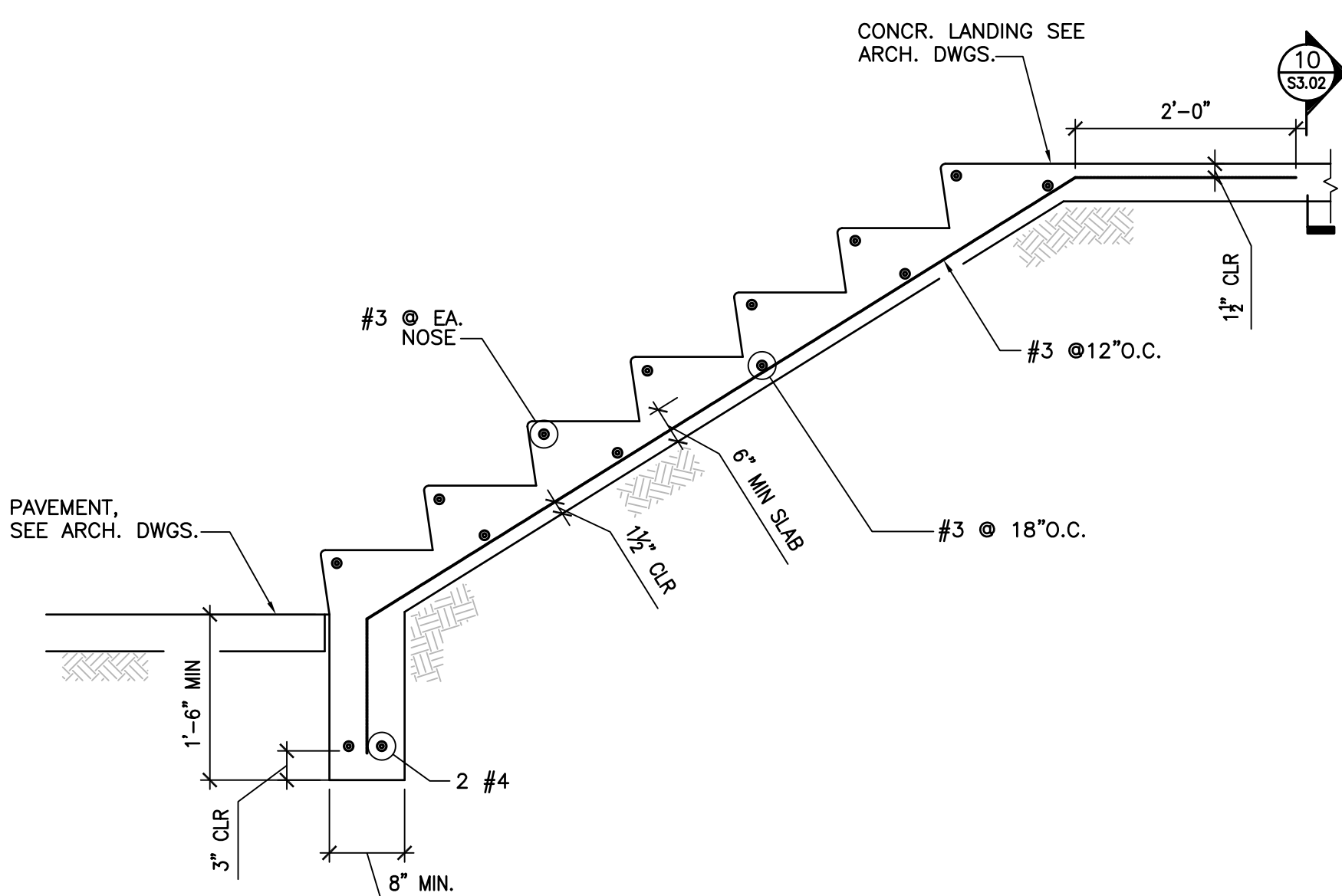
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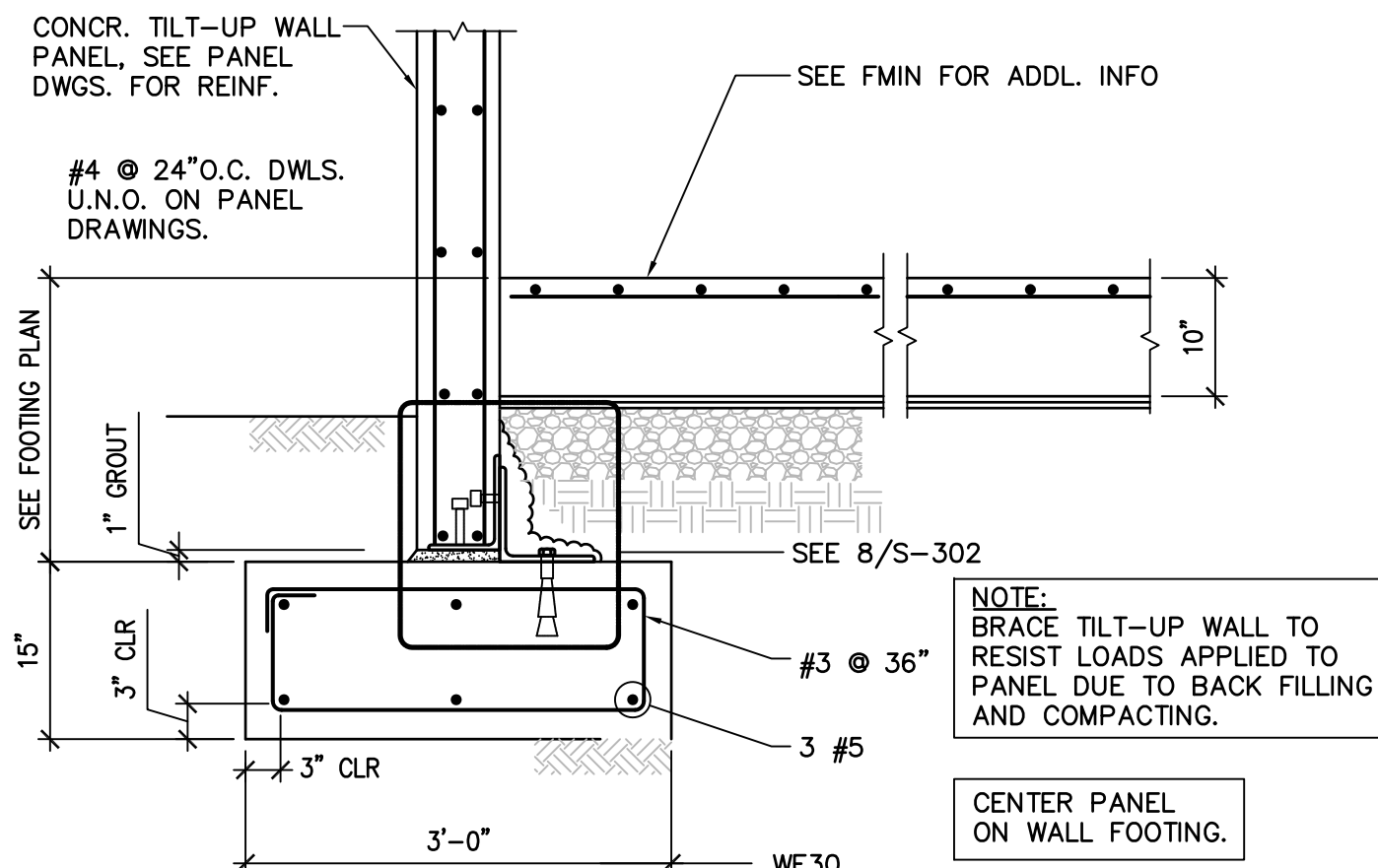
1 JOIST BEARING ON WALL W/PARAPET  
SCALE: 3/4"=1'-0"



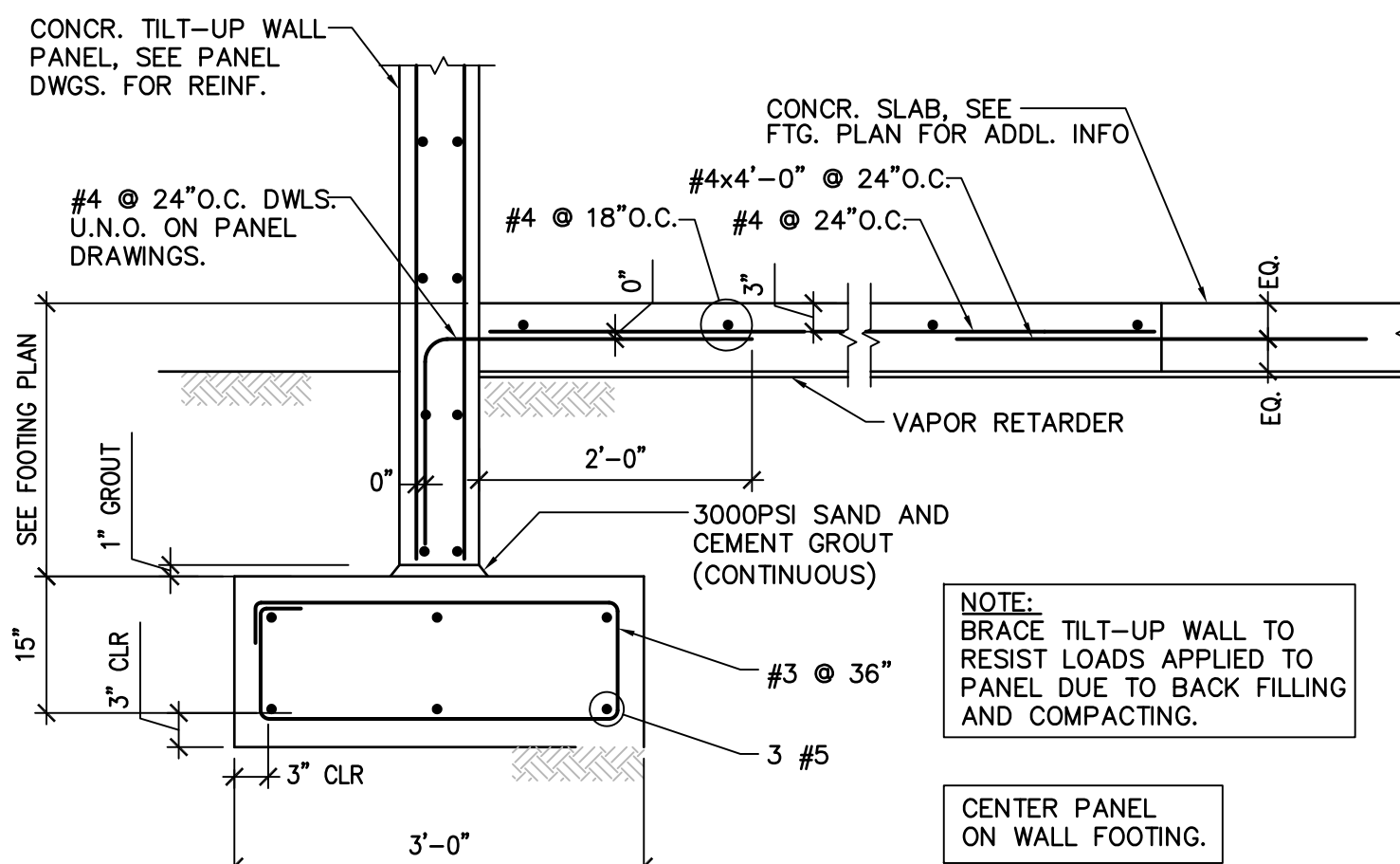
4 GIRDER BEARING ON WALL PANEL  
SCALE: 3/4"=1'-0"



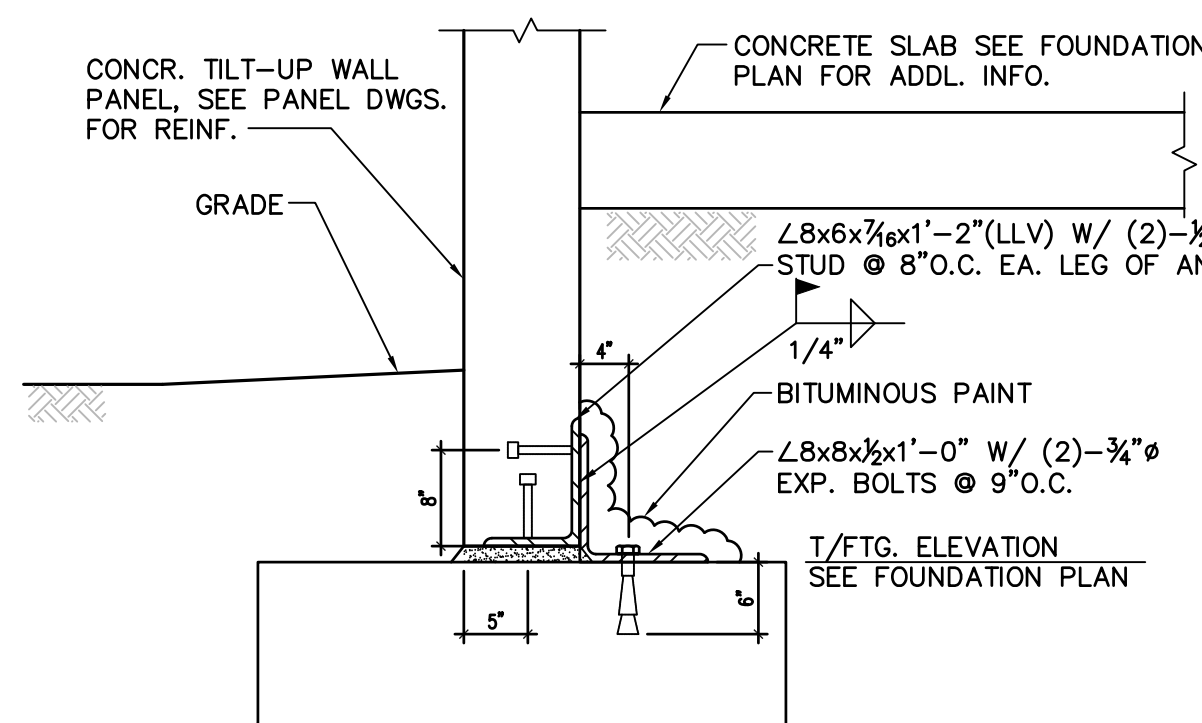
9 SECTION THROUGH CONCR. STAIR ON GRADE  
SCALE: 3/4"=1'-0"



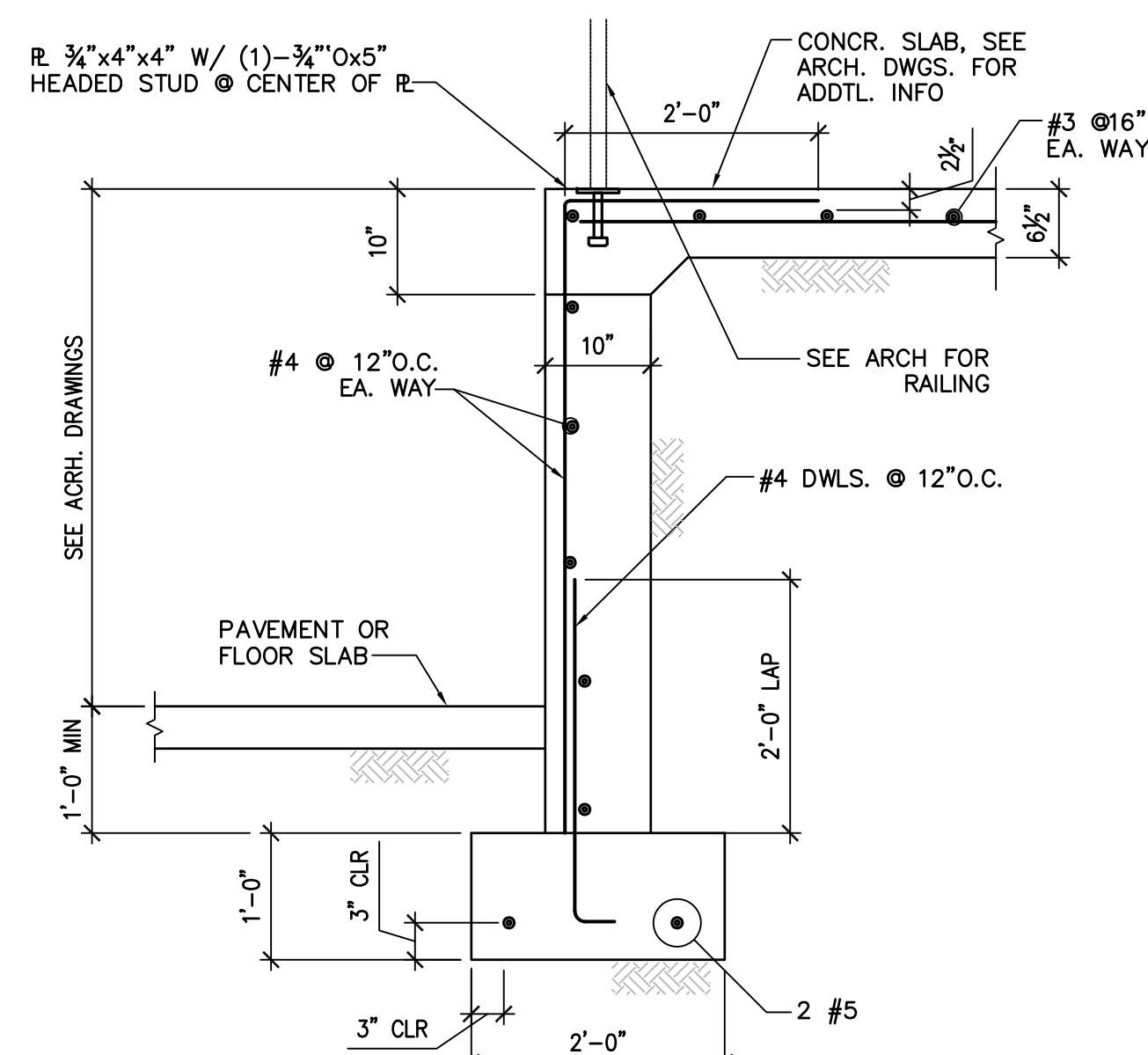
5A TILT-UP WALL FOOTING  
SCALE: 3/4"=1'-0"



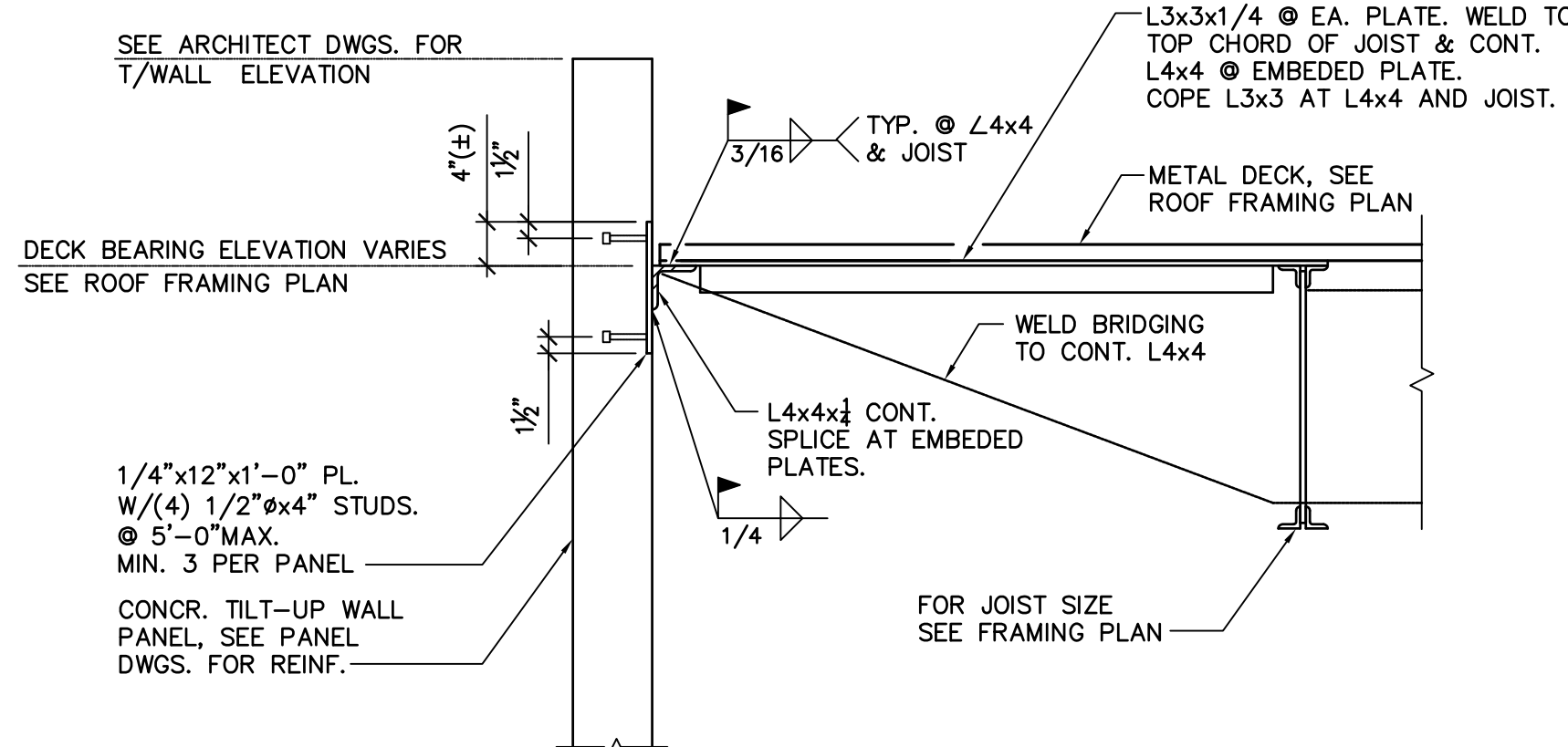
5 TILT-UP WALL FOOTING  
SCALE: 3/4"=1'-0"



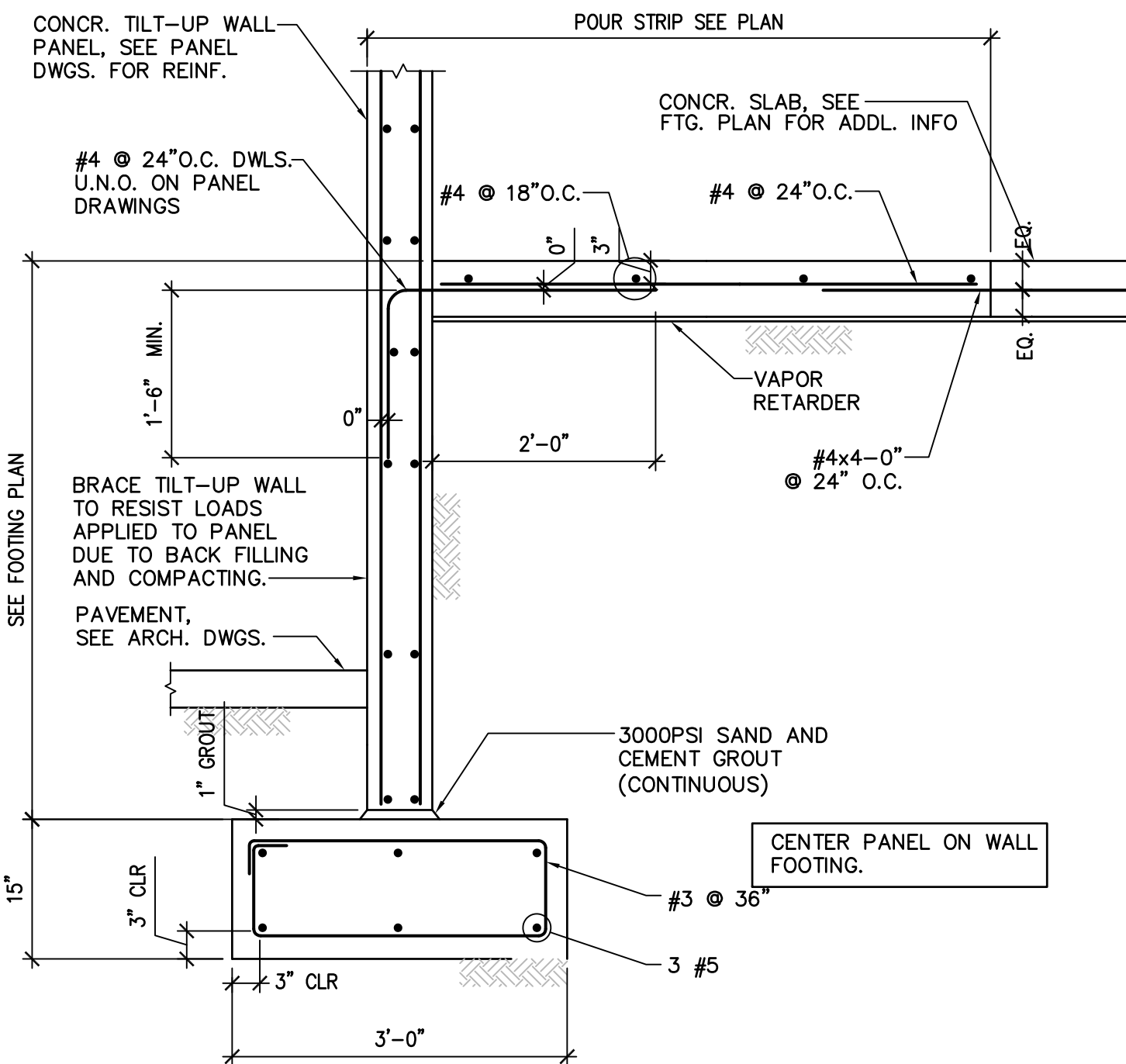
8 PANEL TO FOOTING CONNECTION  
SCALE: N.T.S.



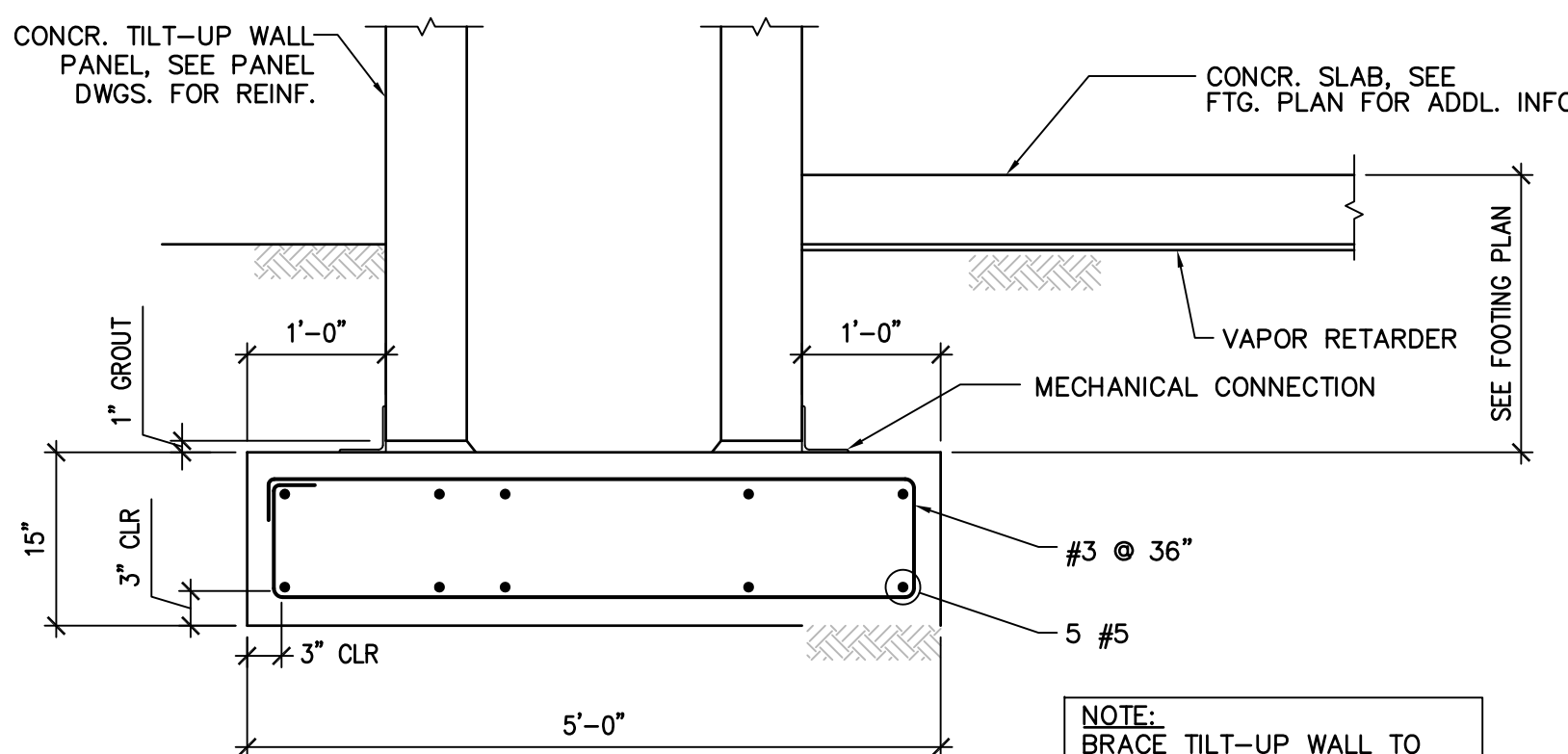
10 SECTION THRU STAIR WALL/LANDING SLAB  
SCALE: 3/4"=1'-0"



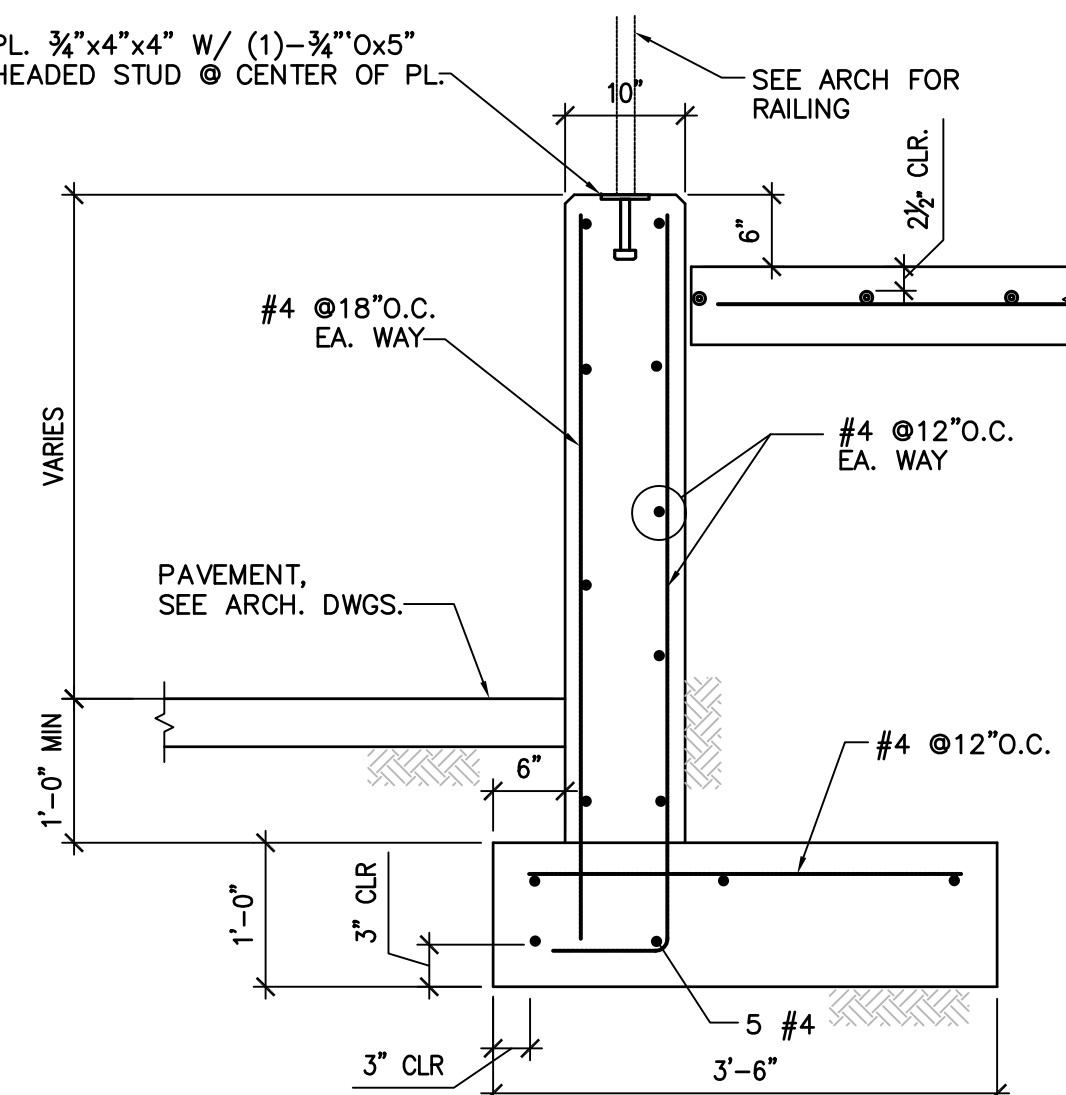
3 DECK BEARING ON WALL W/PARAPET  
SCALE: 3/4"=1'-0"



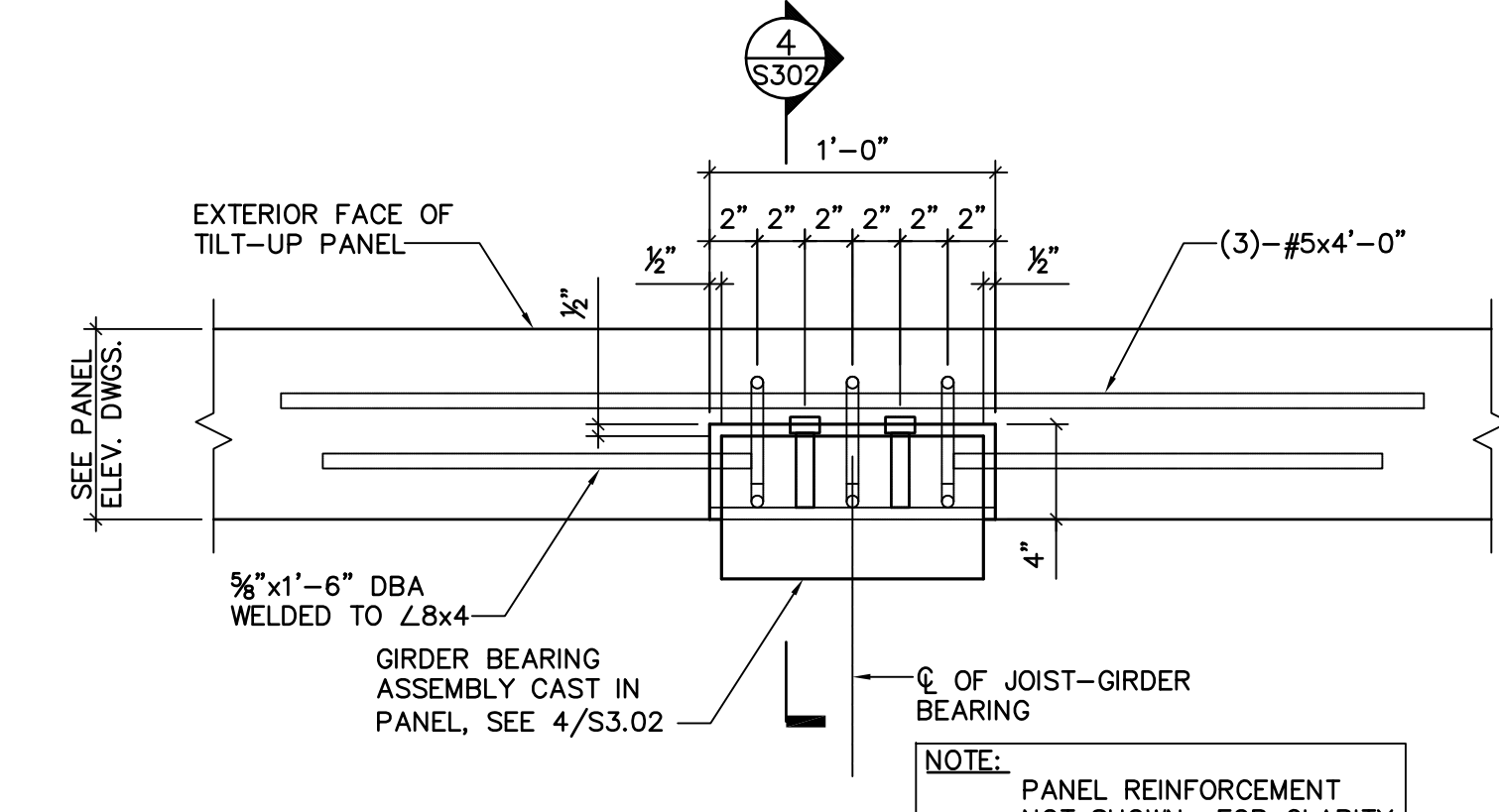
6 TILT-UP WALL FOOTING  
SCALE: 3/4"=1'-0"



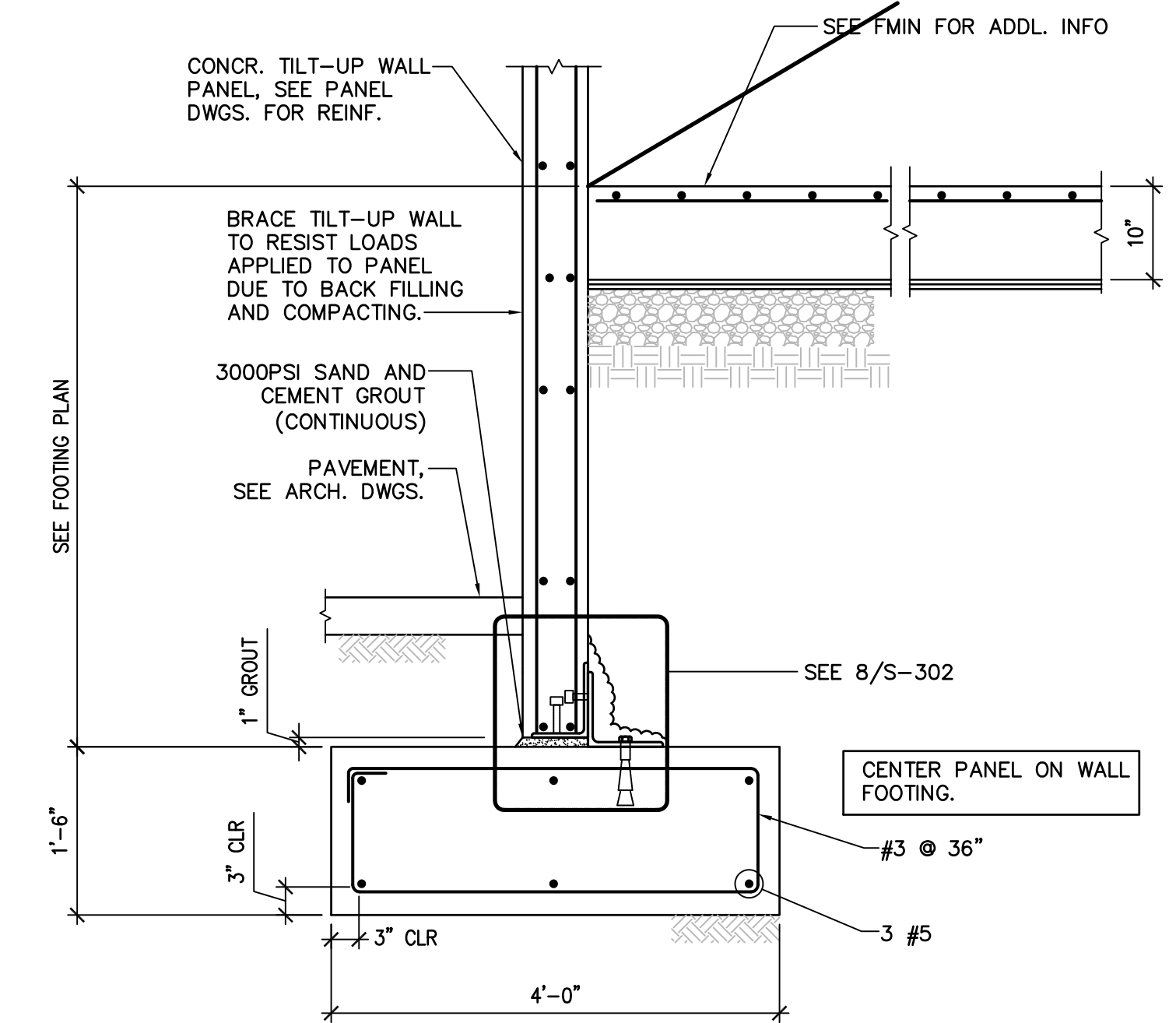
8A WALL FOOTING  
SCALE: 3/4"=1'-0"



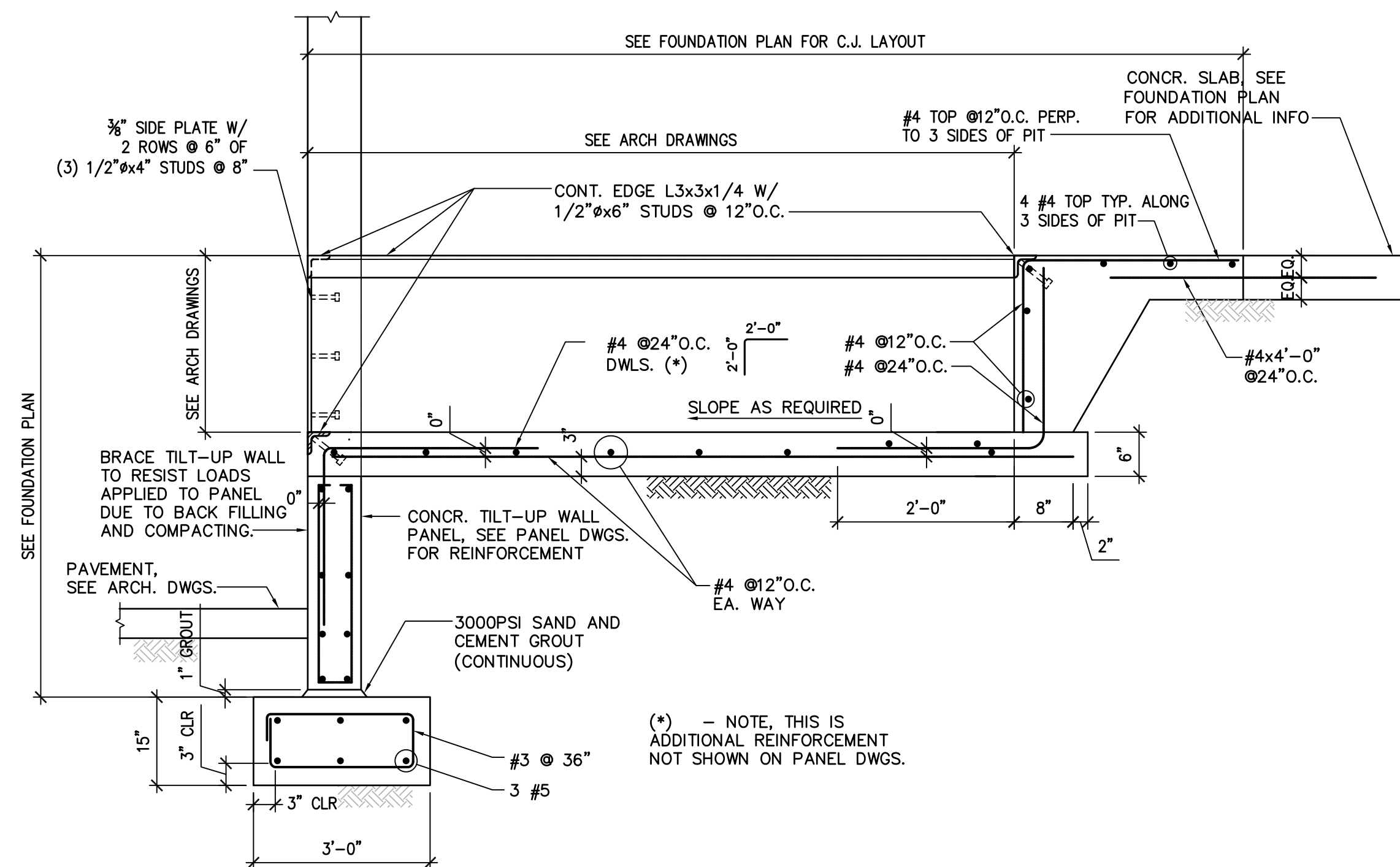
11 SECTION THRU RAMP WALL AND SLAB  
SCALE: 3/4"=1'-0"



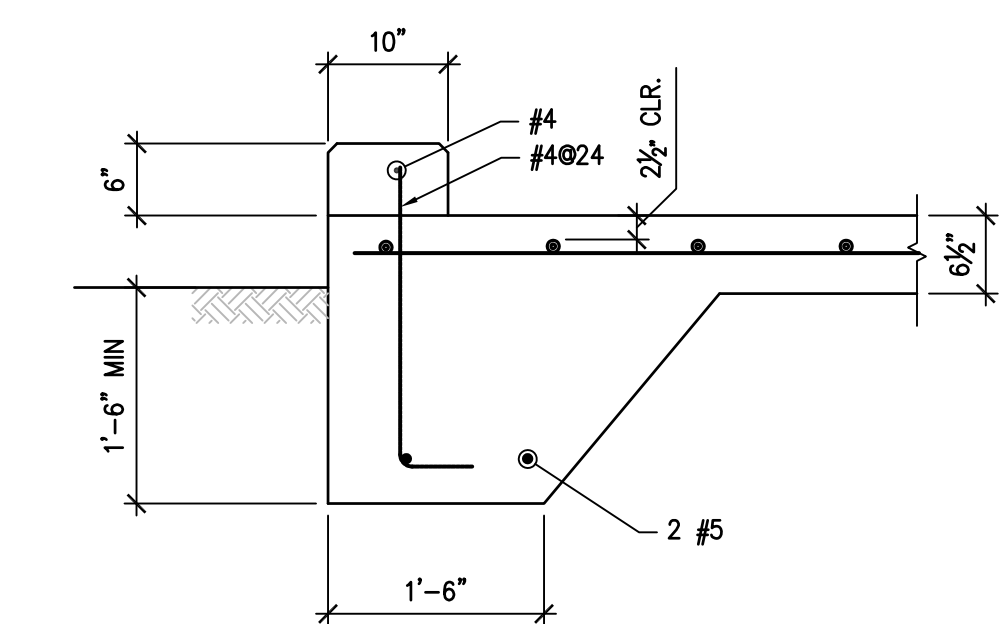
4B GIRDER BEARING SEAT ASSEMBLY  
SCALE: N.T.S.



6A TILT-UP WALL FOOTING  
SCALE: 3/4"=1'-0"



7 TILT-UP WALL FOOTING @ DOCK LEVELER PIT  
SCALE: N.T.S.



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



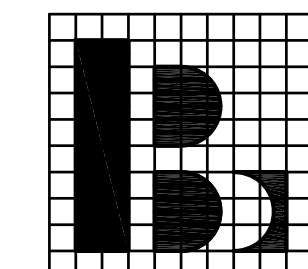
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ARCHITECTS

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Atlanta, Georgia 30339  
T 770.432.9400 F 770.432.9934

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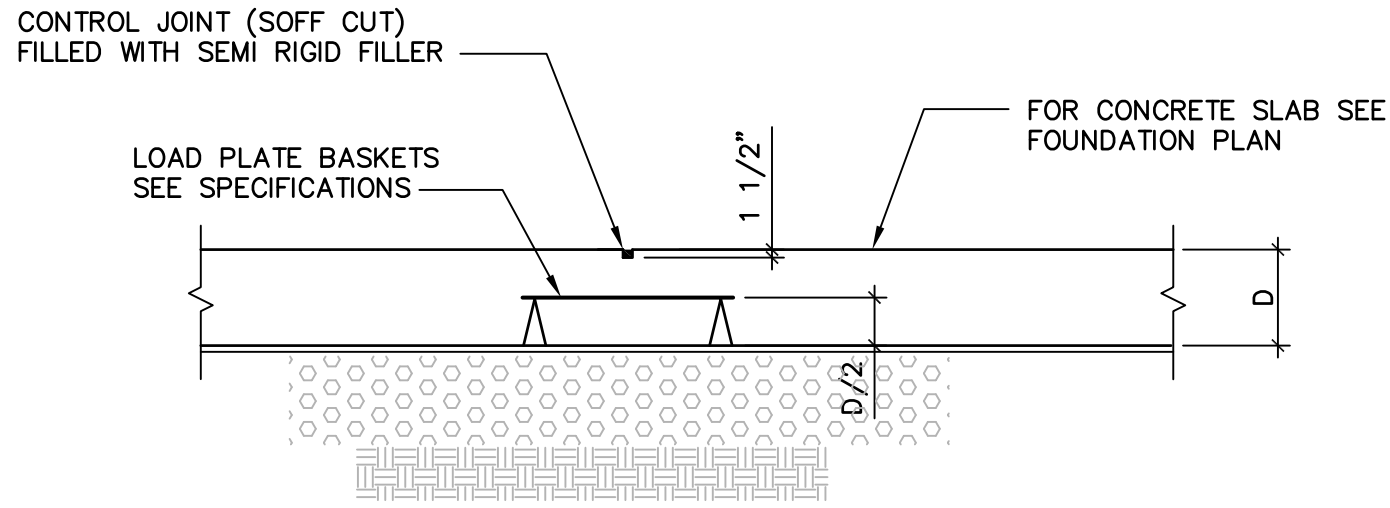
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**SECTIONS AND  
DETAILS**

SHEET NUMBER

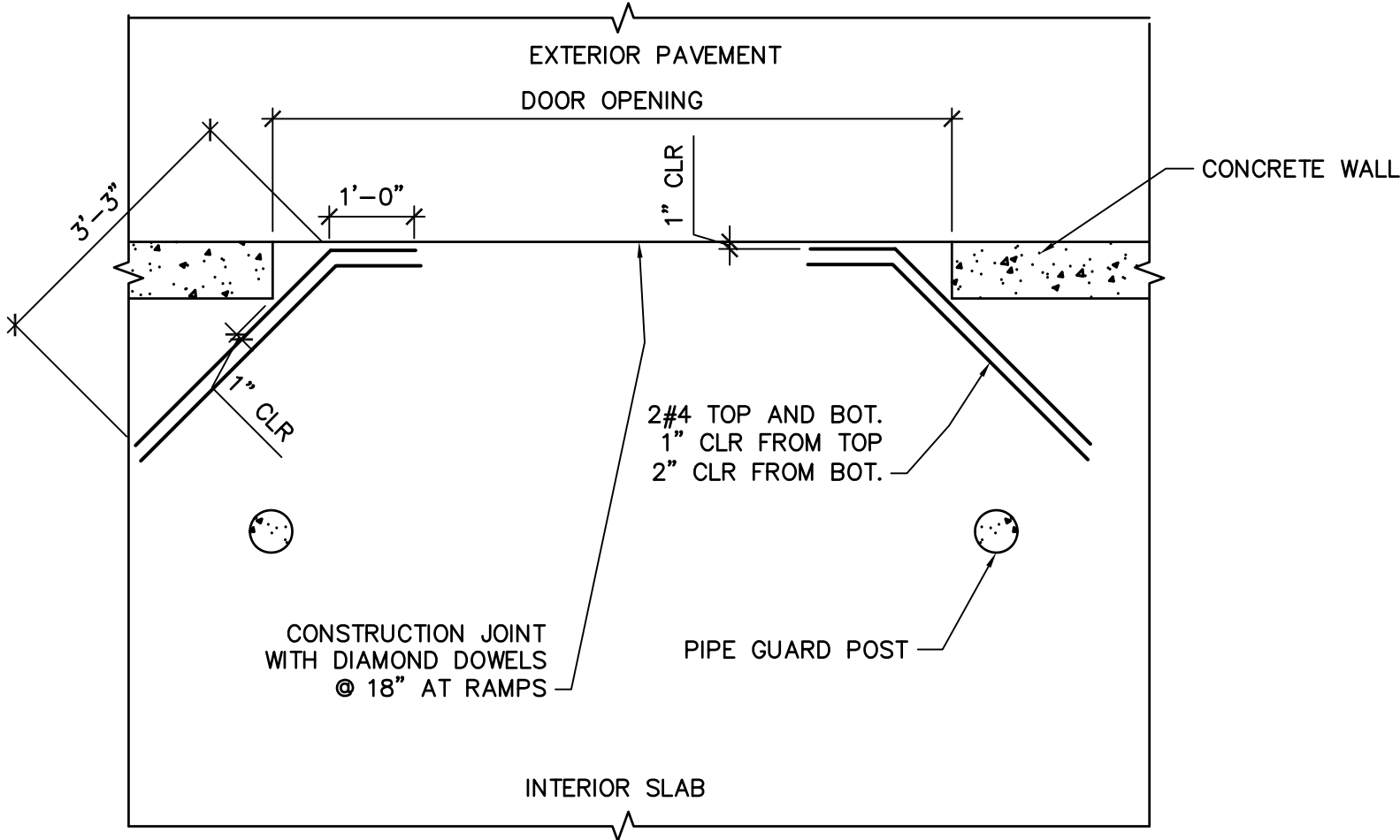
**S-302**

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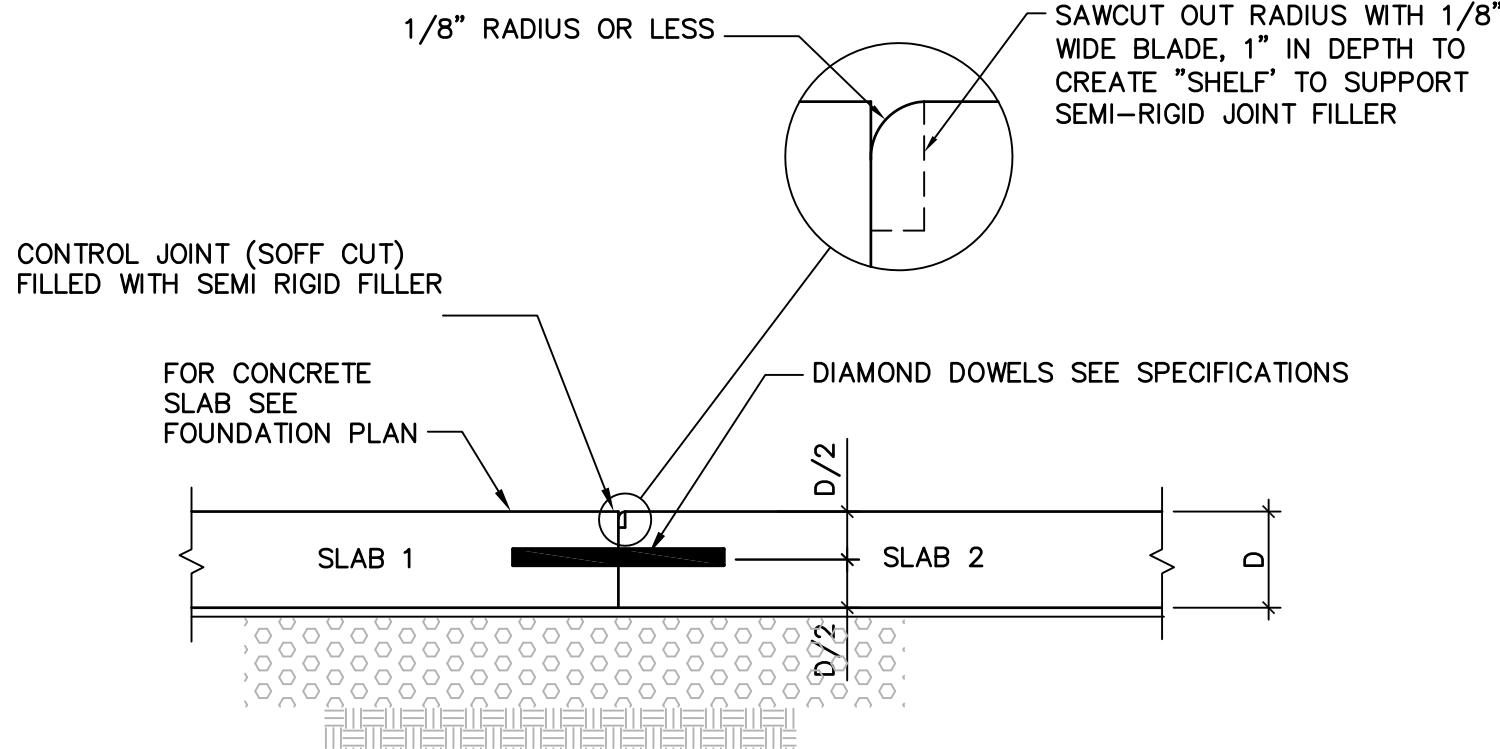


- NOTES:
1. DOWELS TO BE AT RIGHT ANGLE TO JOINT.

1 TYPICAL SLAB ON GRADE CONTROL JOINT  
SCALE: 1/2"=1'-0"

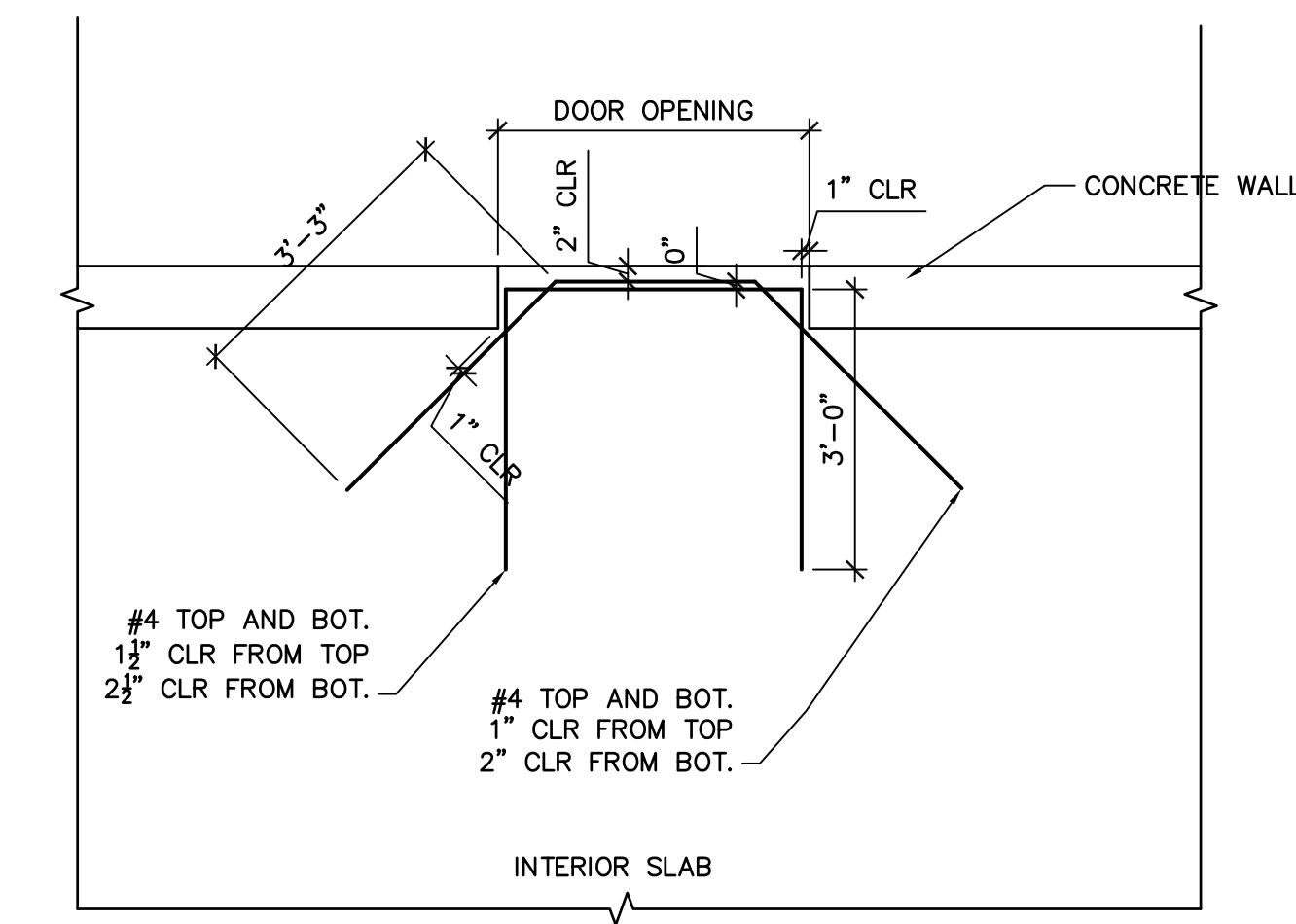


4 SLAB DETAILS AT RAMP DOOR  
SCALE: 1/2"=1'-0"

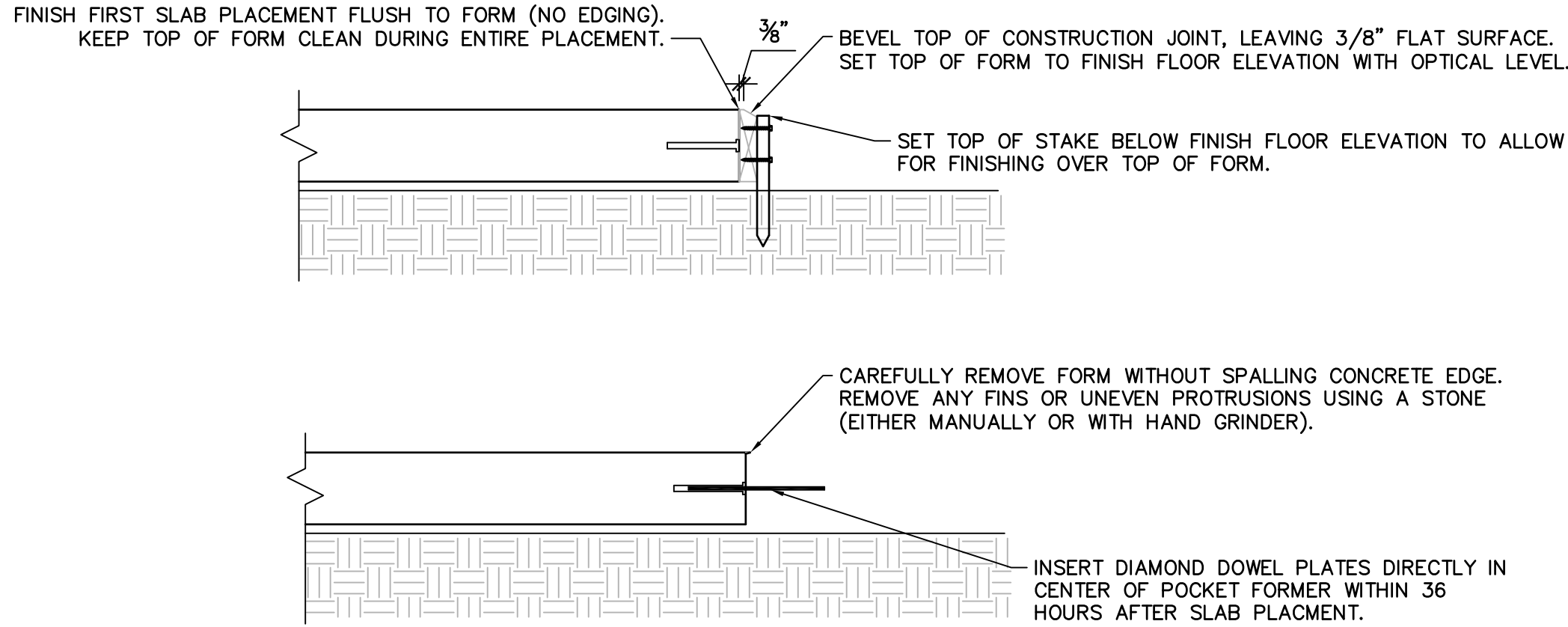


- NOTES:
1. DOWELS TO BE AT RIGHT ANGLE TO JOINT.
  2. ALL SURFACES IN CONTACT WITH FUTURE CONCRETE PLACEMENTS SHALL BE CLEANED BEFORE PLACEMENT OF ADJACENT CONCRETE.

2 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT  
SCALE: 1/2"=1'-0"

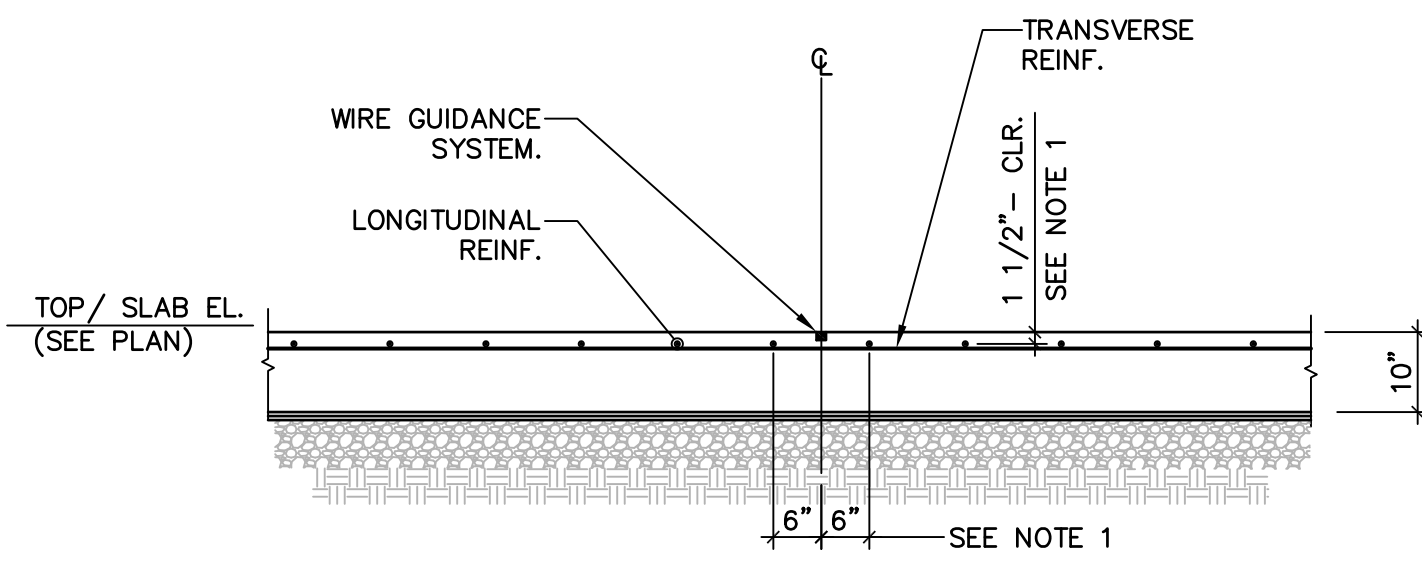


5 SLAB DETAILS AT PERSONNEL DOOR  
SCALE: 1/2"=1'-0"



SEE DETAIL 2/S-303 FOR COMPLETION OF CONSTRUCTION JOINT DETAILS

3 CONSTRUCTION JOINT INSTALLATION  
SCALE: 1"=1'-0"



- NOTES:
1. VERIFY DIMENSION WITH WIRE GUIDANCE VENDOR AND NOTIFY ALL PARTIES IF DIMENSION IS NOT ACCEPTABLE.

6 SECTION-WIRE GUIDANCE SYSTEM  
SCALE: 1/2"=1'-0"



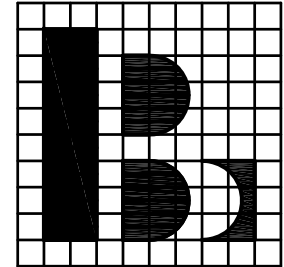
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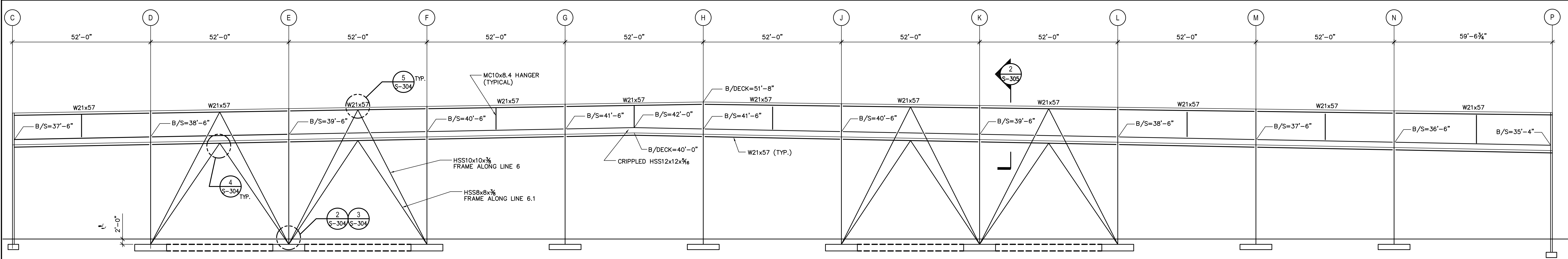
SHEET TITLE

**SLAB DETAILS**

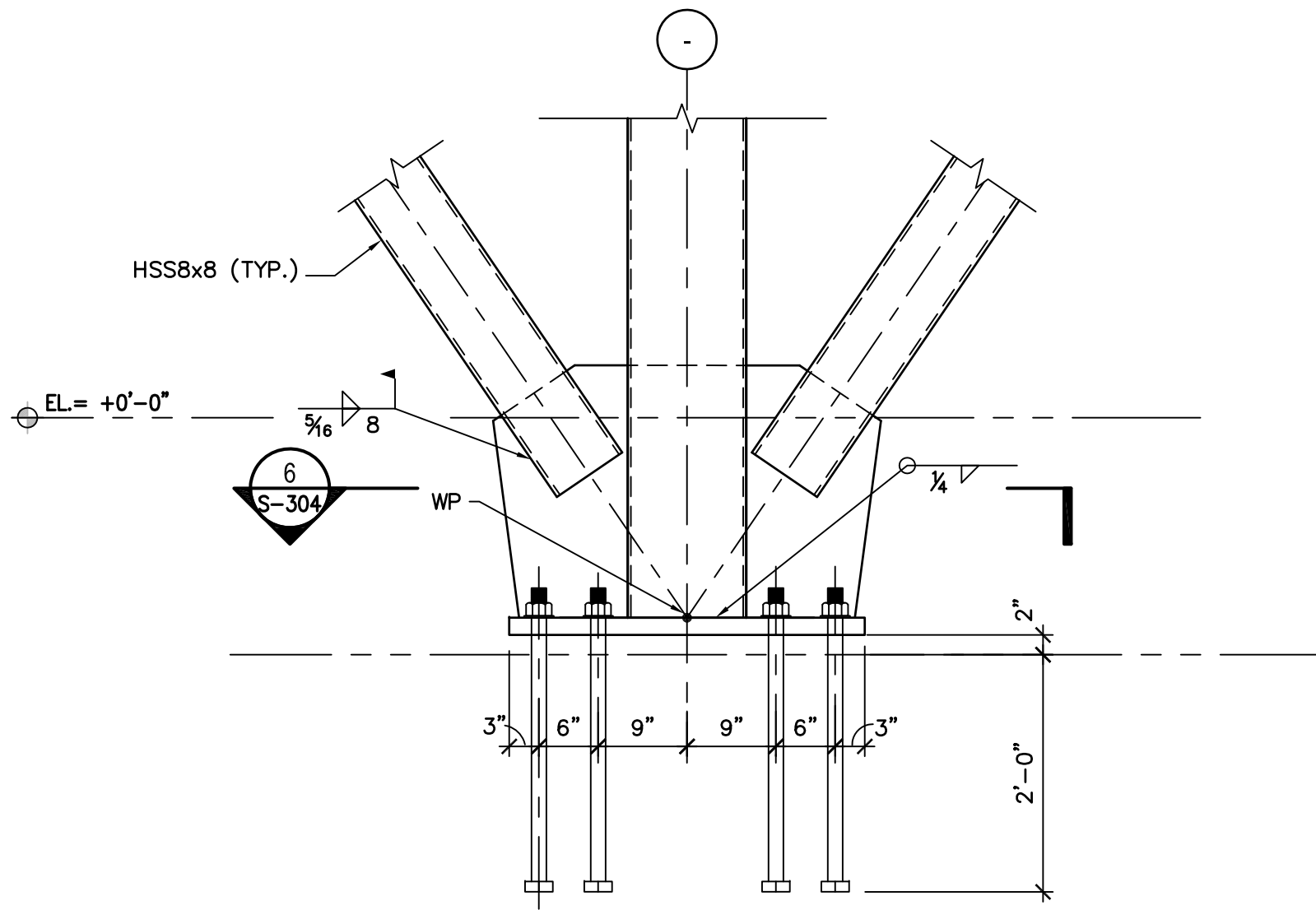
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**S-303**

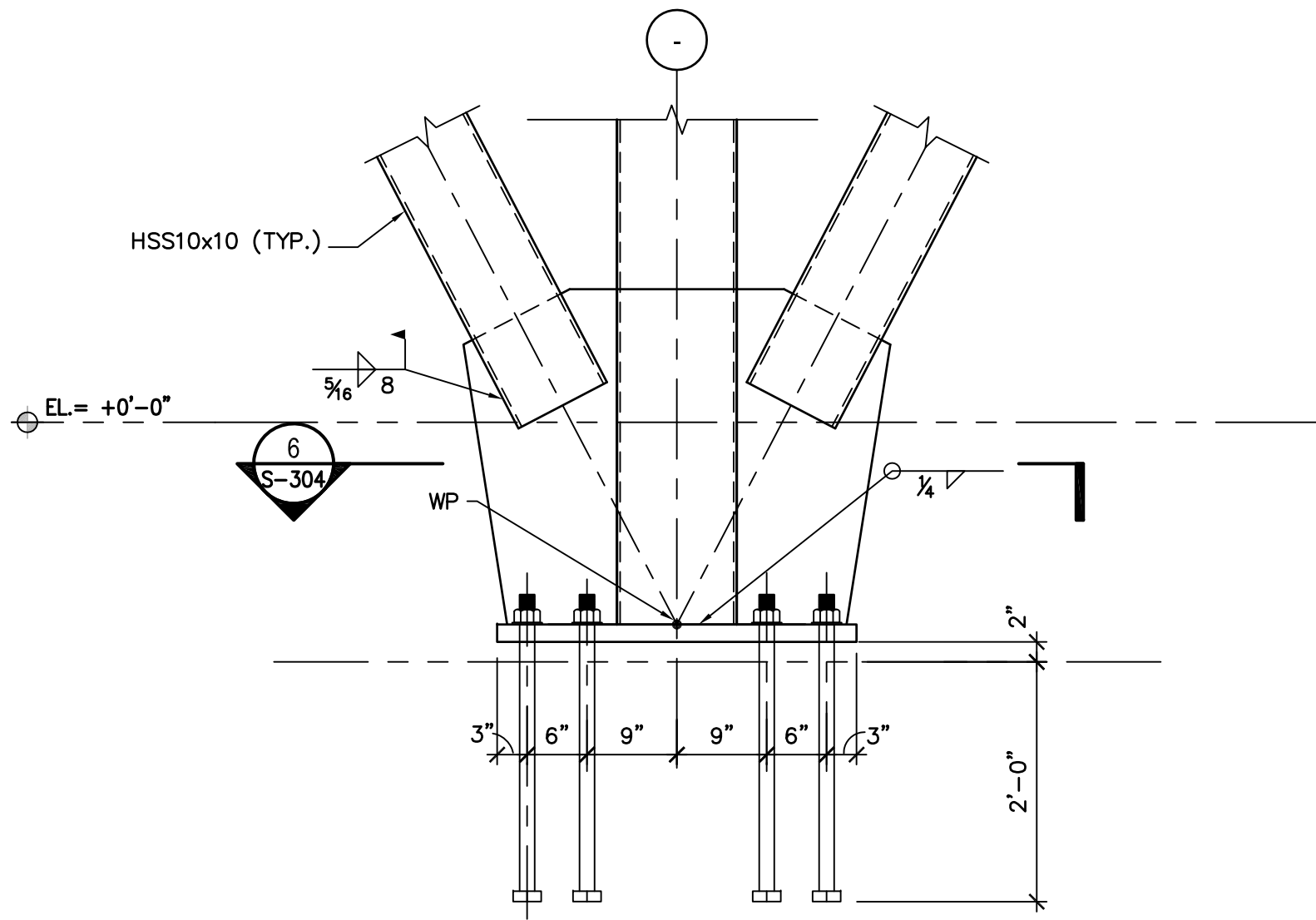
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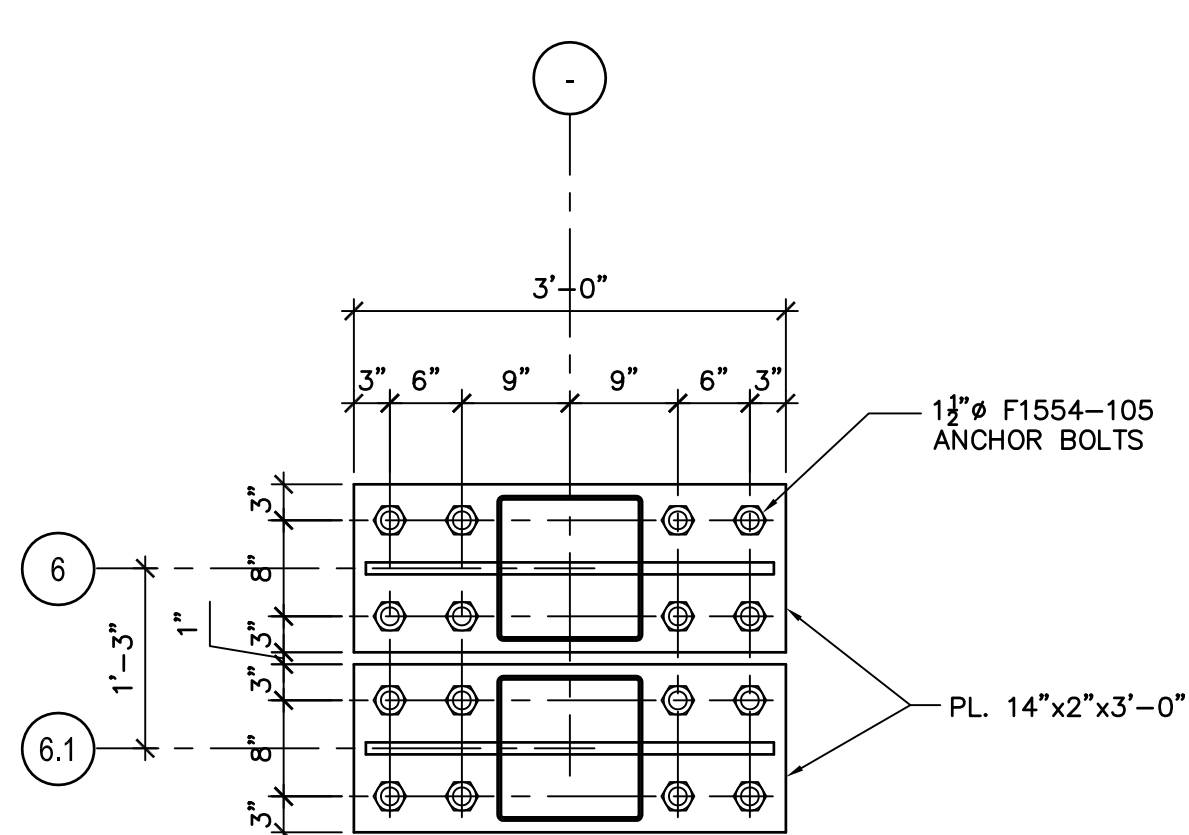
1 BRACED FRAME ELEVATION - LINES 6 AND 6.1  
SCALE: 1/16"=1'-0"



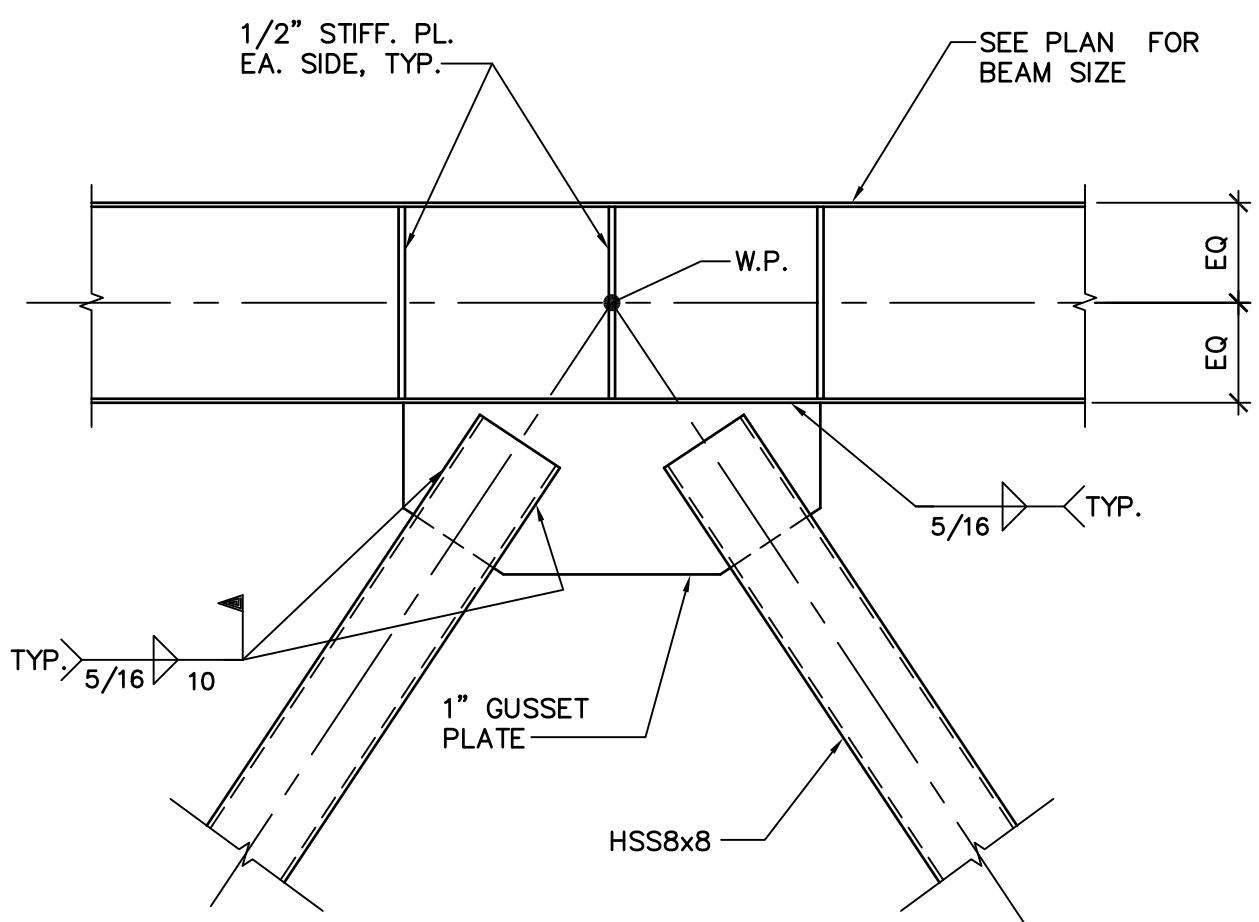
2 DETAIL  
SCALE: 3/4"=1'-0"



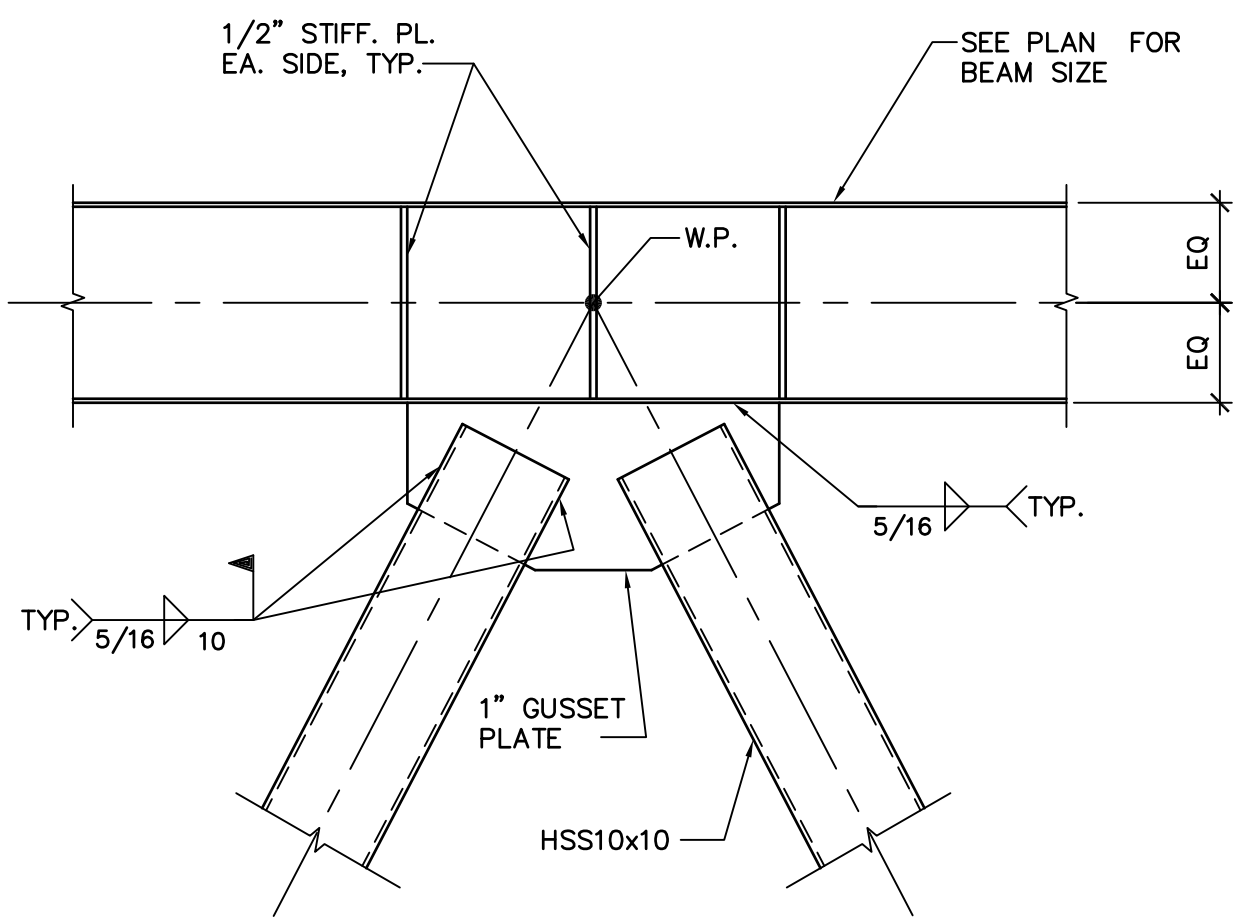
3 DETAIL  
SCALE: 3/4"=1'-0"



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



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



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



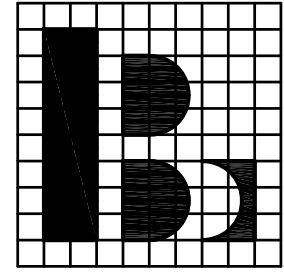
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FRAME DETILS**

SHEET NUMBER

**S-304**

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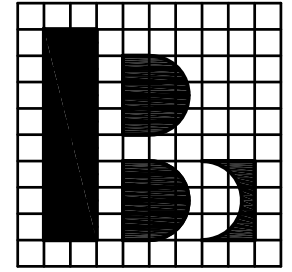
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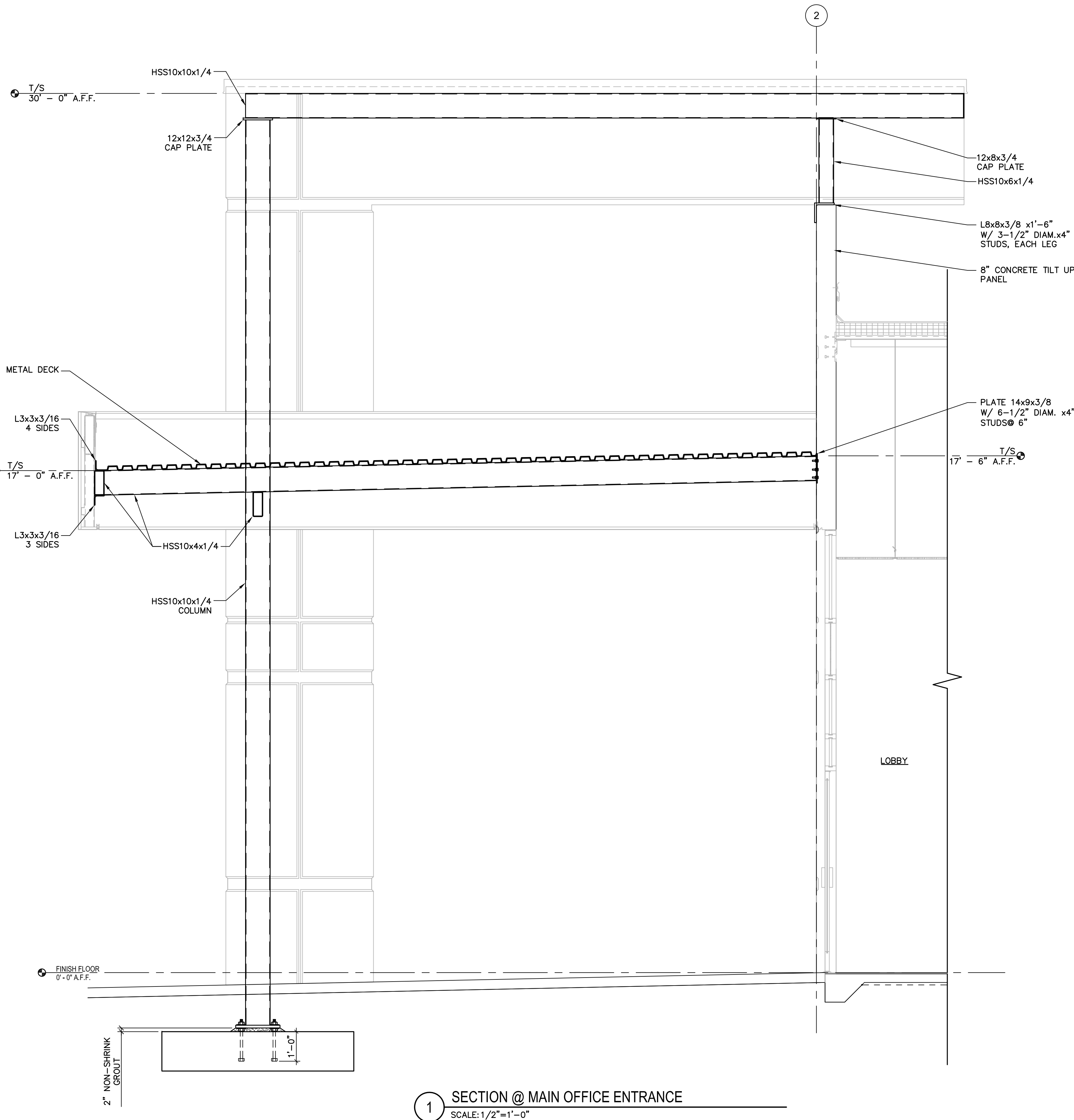
SHEET TITLE

**SECTIONS AND  
DETAILS**

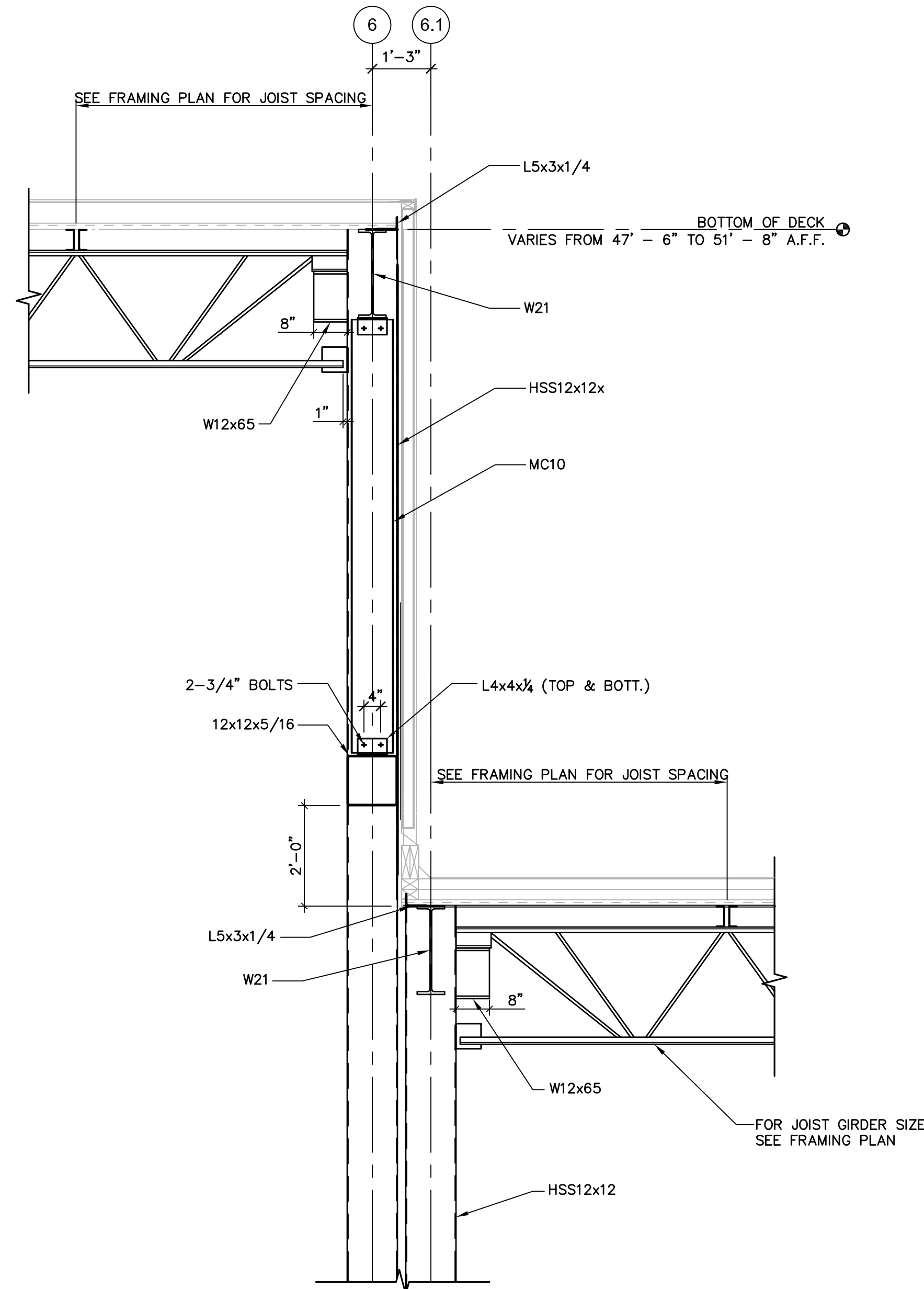
SHEET NUMBER

**S-305**

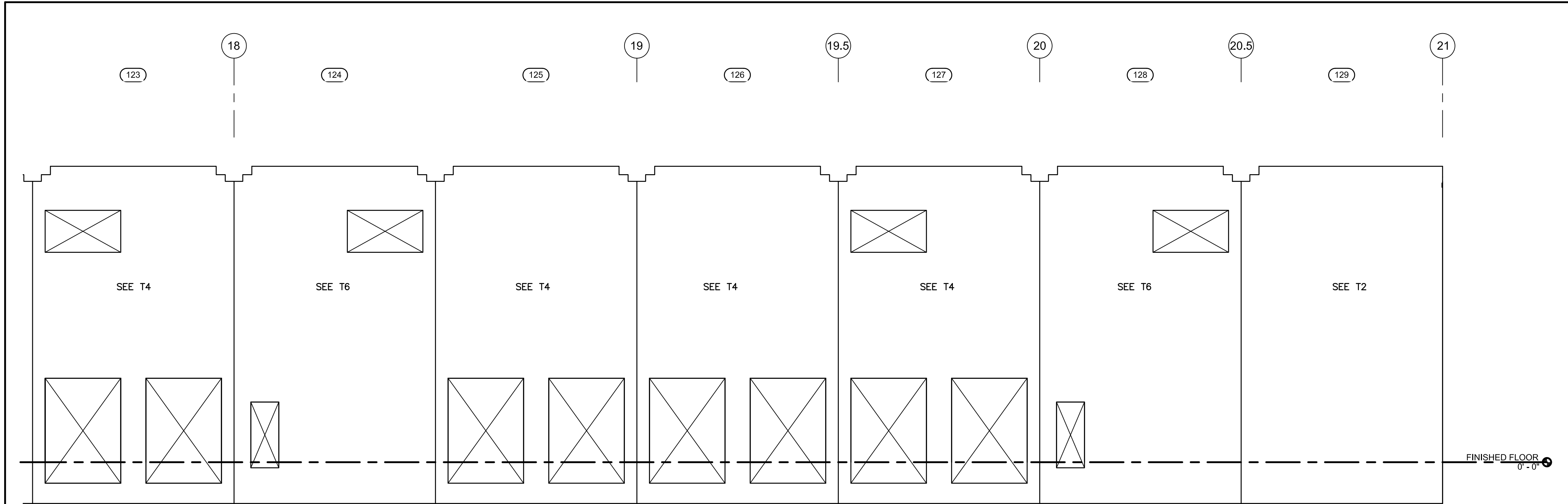
FOR CONSTRUCTION



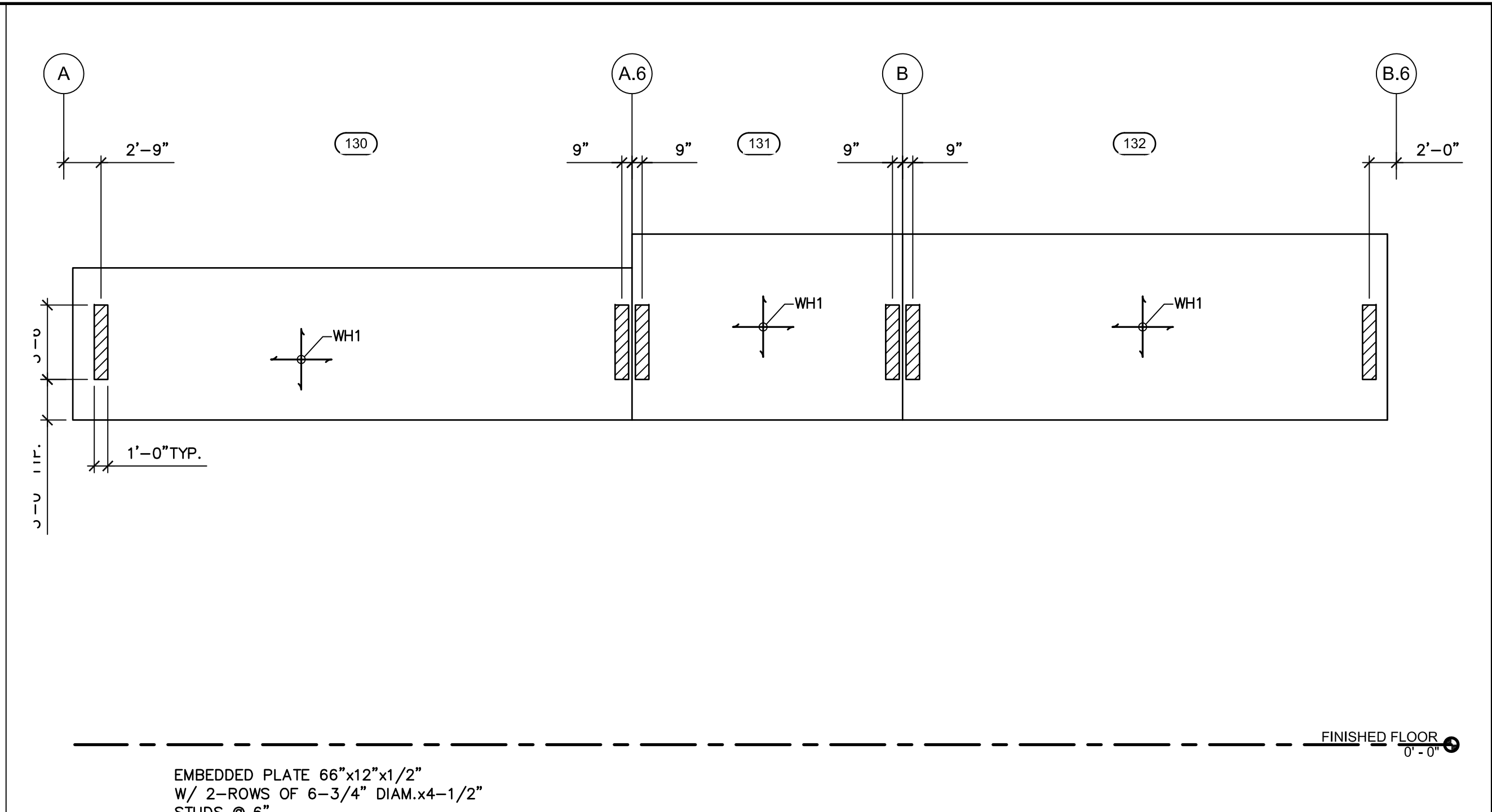
**1 SECTION @ MAIN OFFICE ENTRANCE**  
SCALE: 1/2"=1'-0"



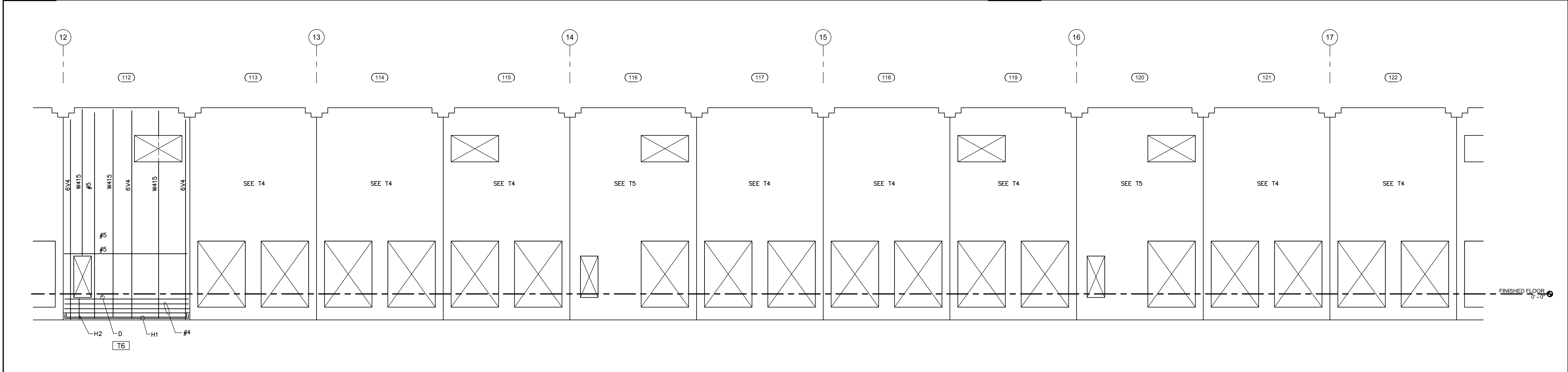
**2 SECTION @ HIGH BAY LOW BAY ROOF**  
SCALE: 1/2"=1'-0"



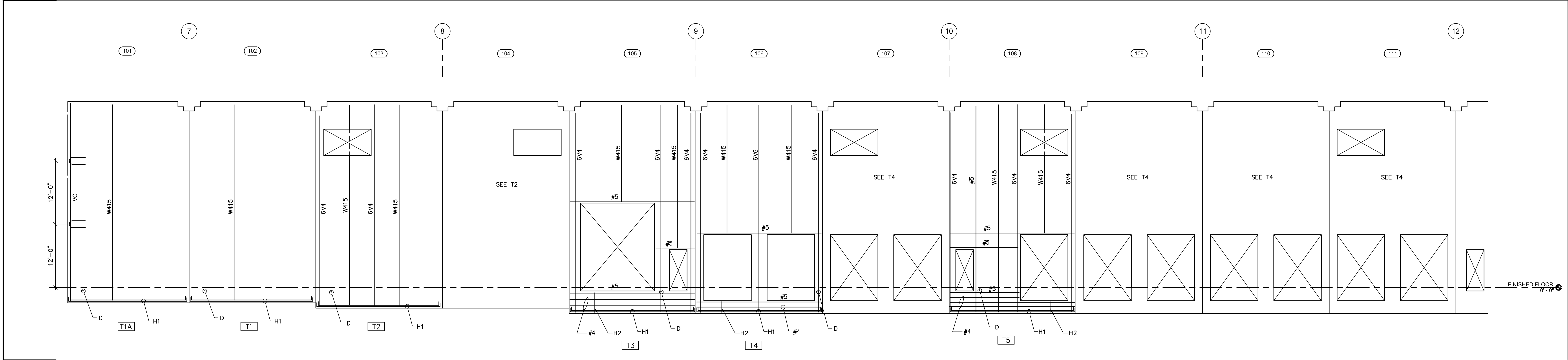
**3 PARTIAL SOUTH PANEL ELEVATION (123-129) (8" PANELS)**  
1/8" = 1'-0"



**4 WEST SPANDREL PANEL (130-132) (8" PANEL)**  
1/8" = 1'-0"



**2 PARTIAL SOUTH PANEL ELEVATION (112 - 122) (8" PANELS)**  
1/8" = 1'-0"



**1 PARTIAL SOUTH PANEL ELEVATION (101 - 111) (8" PANELS)**  
1/8" = 1'-0"



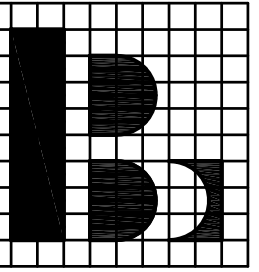
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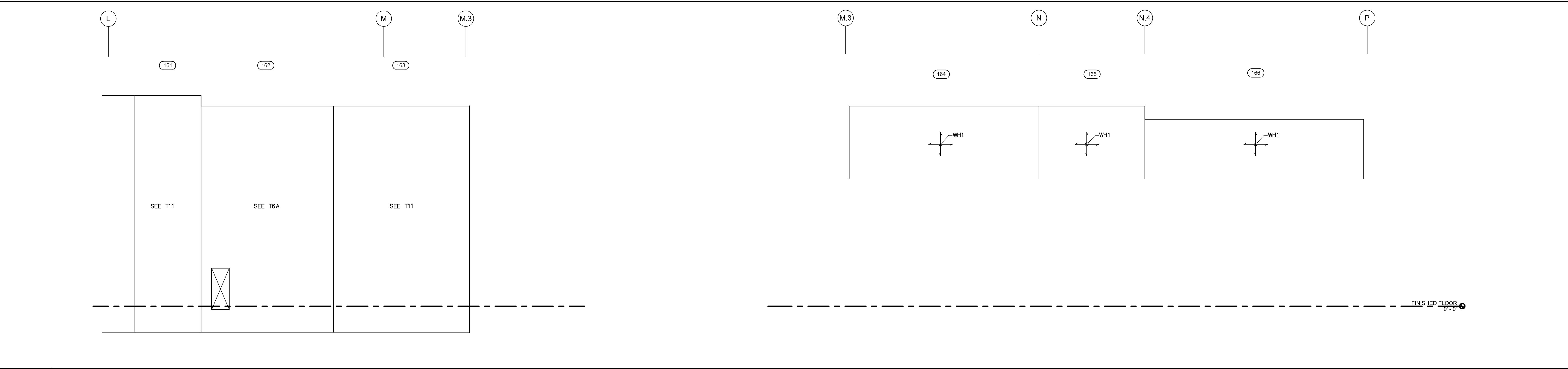
**PANEL ELEVATIONS (101 - 133)**

SHEET NUMBER

**S-307**

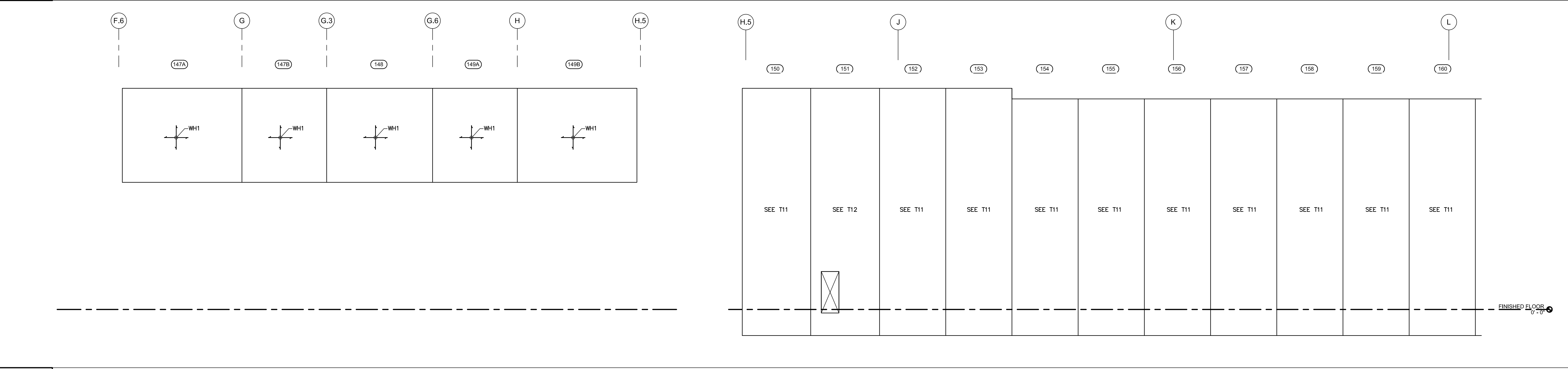
FOR CONSTRUCTION

4/23/13 10:44:26 AM



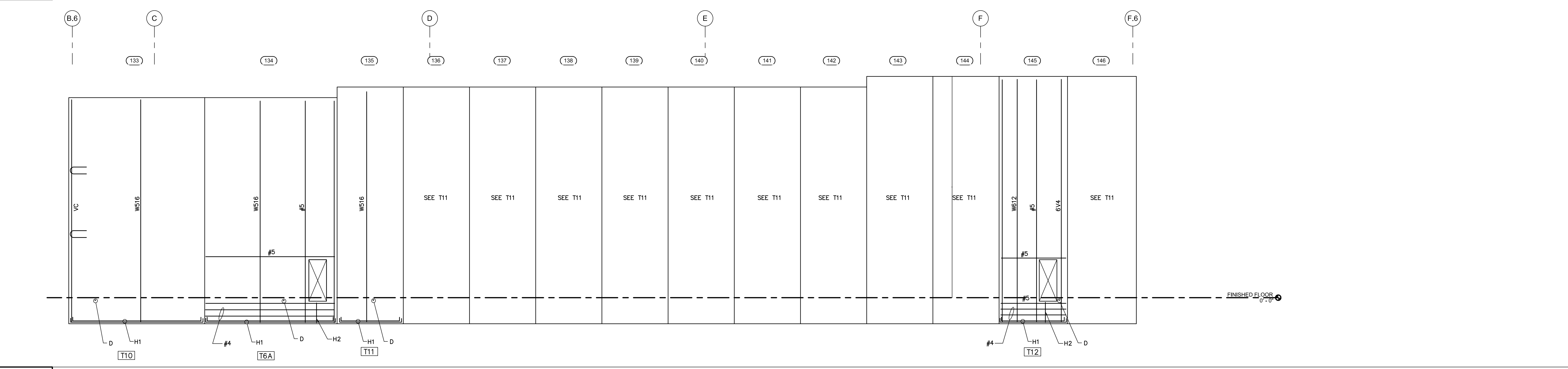
3 PARTIAL WEST PANEL ELEVATION (161 - 166) (8" PANELS)

1/8" = 1'-0"



2 PARTIAL WEST PANEL ELEVATION (147 - 160) (8" PANELS)

1/8" = 1'-0"



1 PARTIAL WEST PANEL ELEVATION (133 - 146) (8" PANELS)

1/8" = 1'-0"



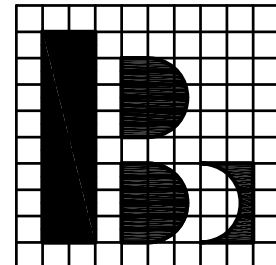
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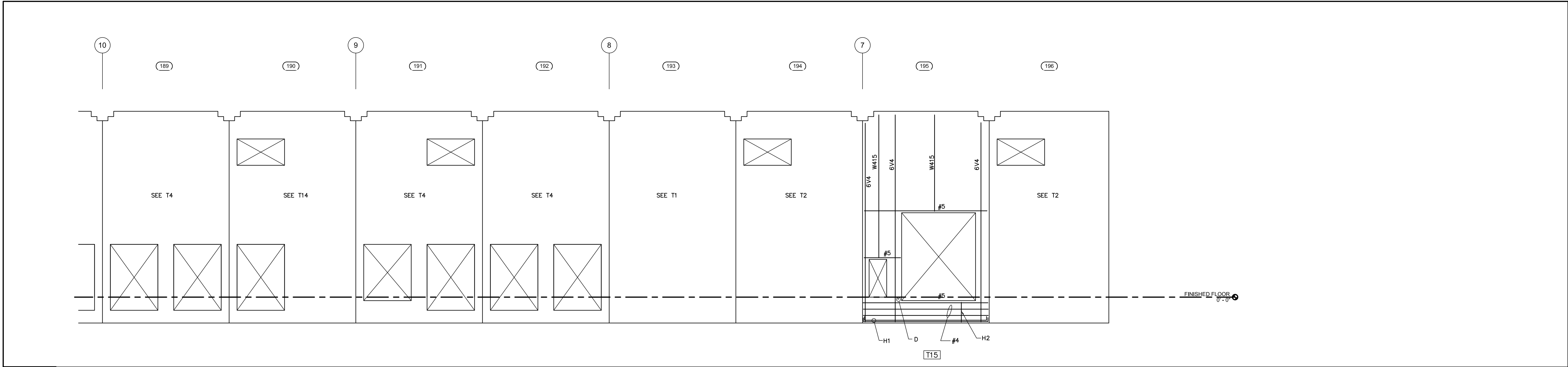
SHEET TITLE

**PANEL  
ELEVATIONS  
(133 - 166)**

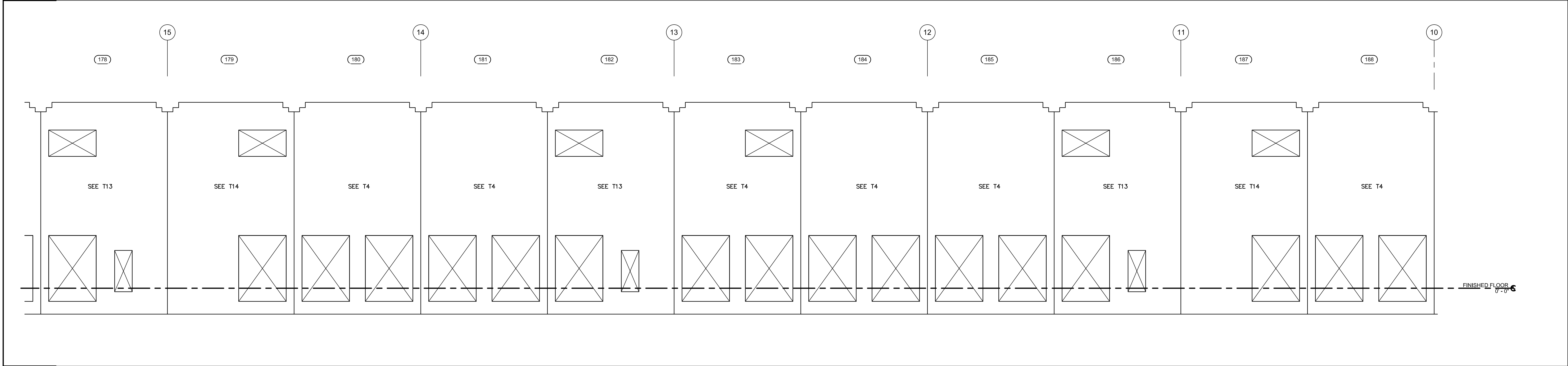
SHEET NUMBER

**S-308**

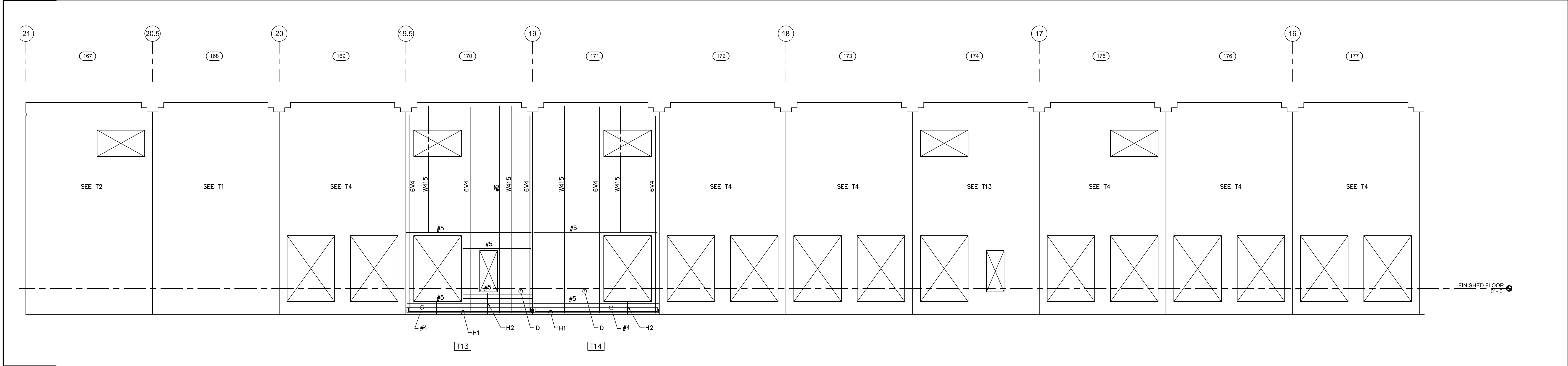
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|   |                                                              |
|---|--------------------------------------------------------------|
| 3 | <b>PARTIAL NORTH PANEL ELEVATION (189 - 196) (8" PANELS)</b> |
|   | 1/8" = 1'-0"                                                 |



|   |                                                              |
|---|--------------------------------------------------------------|
| 2 | <b>PARTIAL NORTH PANEL ELEVATION (178 - 188) (8" PANELS)</b> |
|   | 1/8" = 1'-0"                                                 |



|   |                                                              |
|---|--------------------------------------------------------------|
| 1 | <b>PARTIAL NORTH PANEL ELEVATION (167 - 177) (8" PANELS)</b> |
|   | 1/8" = 1'-0"                                                 |



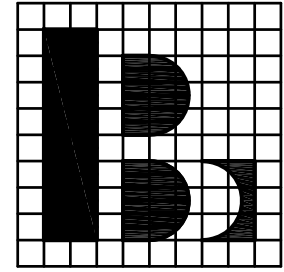
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**PANEL  
ELEVATIONS  
(167 - 196)**

SHEET NUMBER

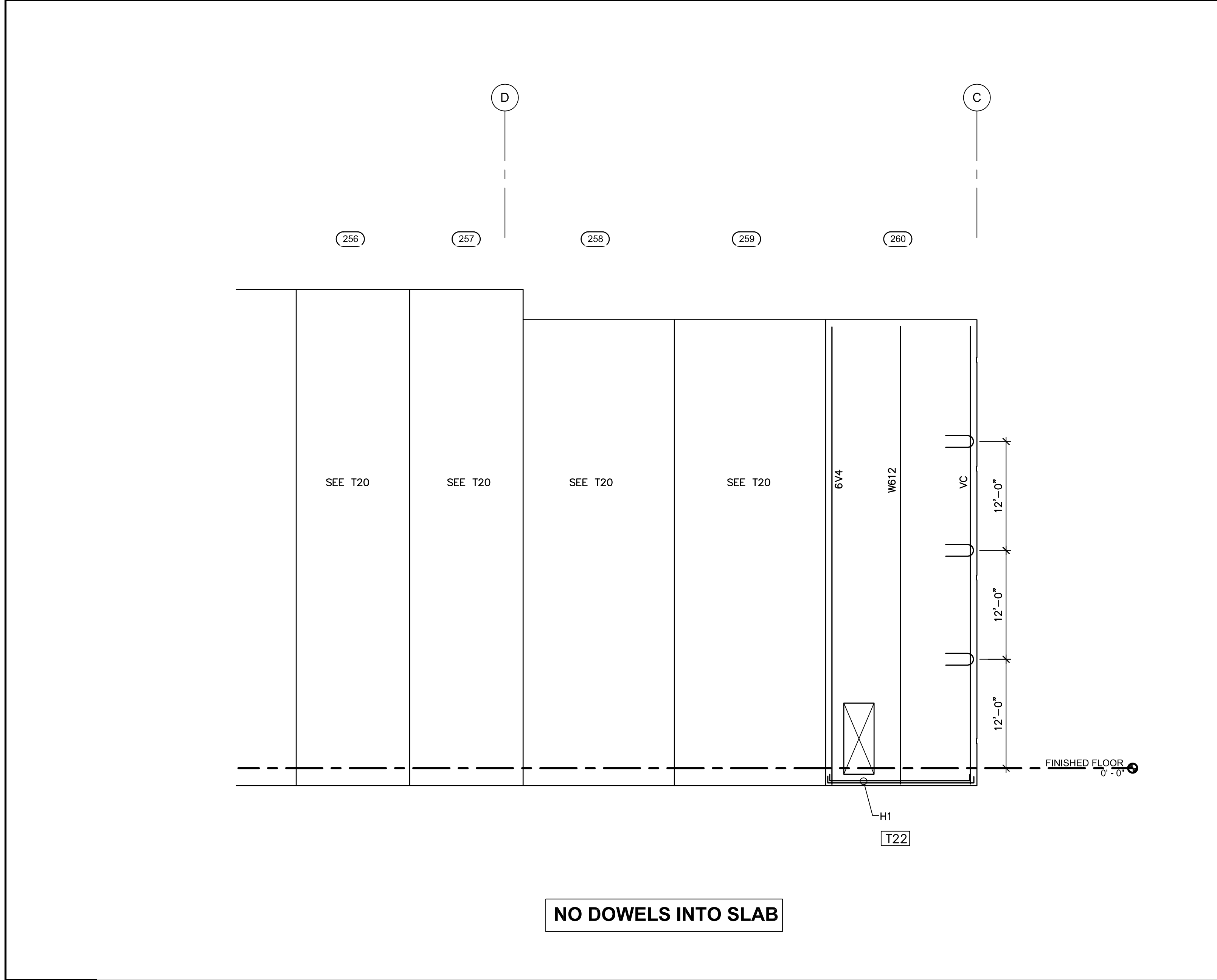
**A-309**

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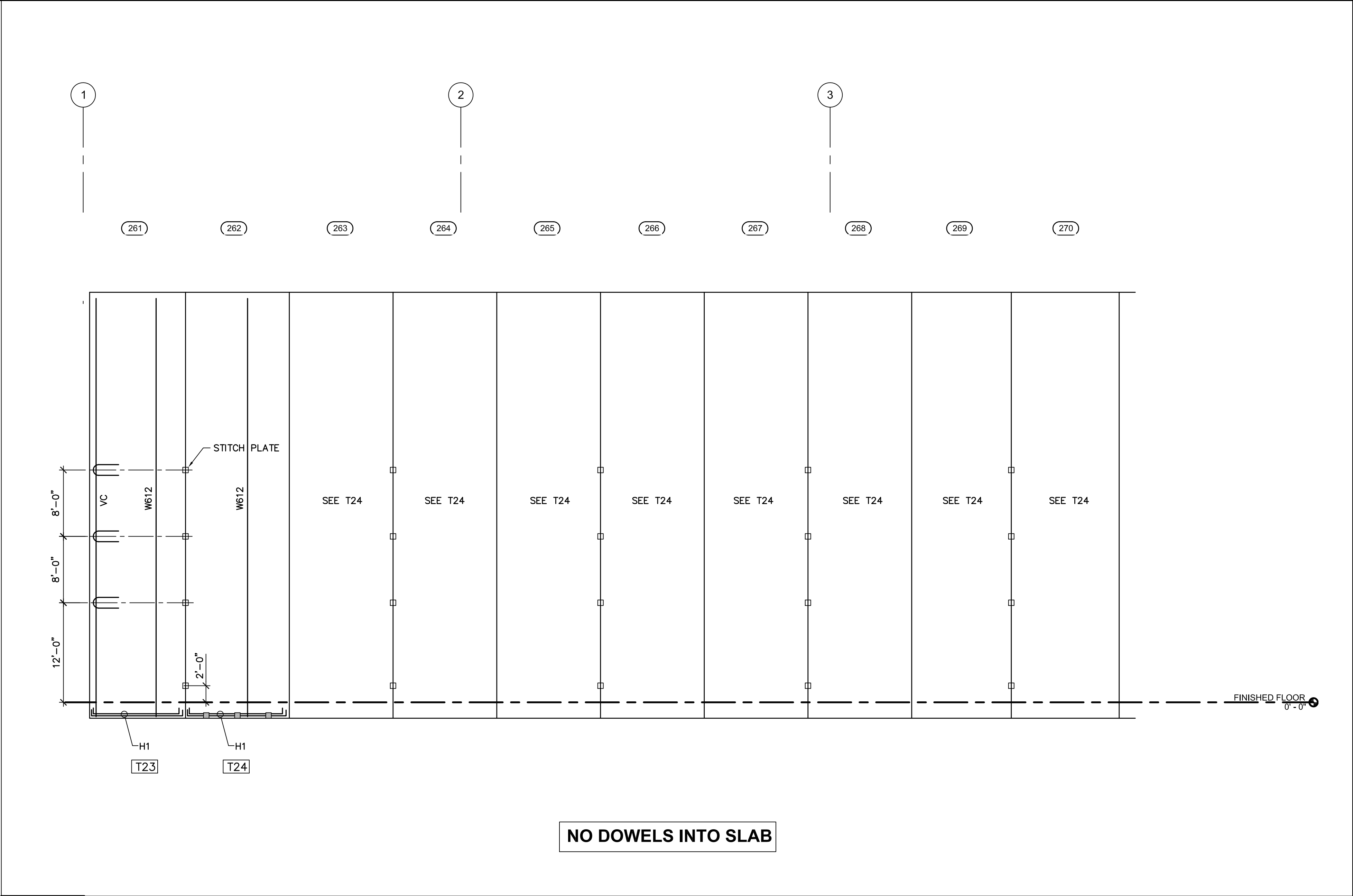


**1/8" = 1'-0"**

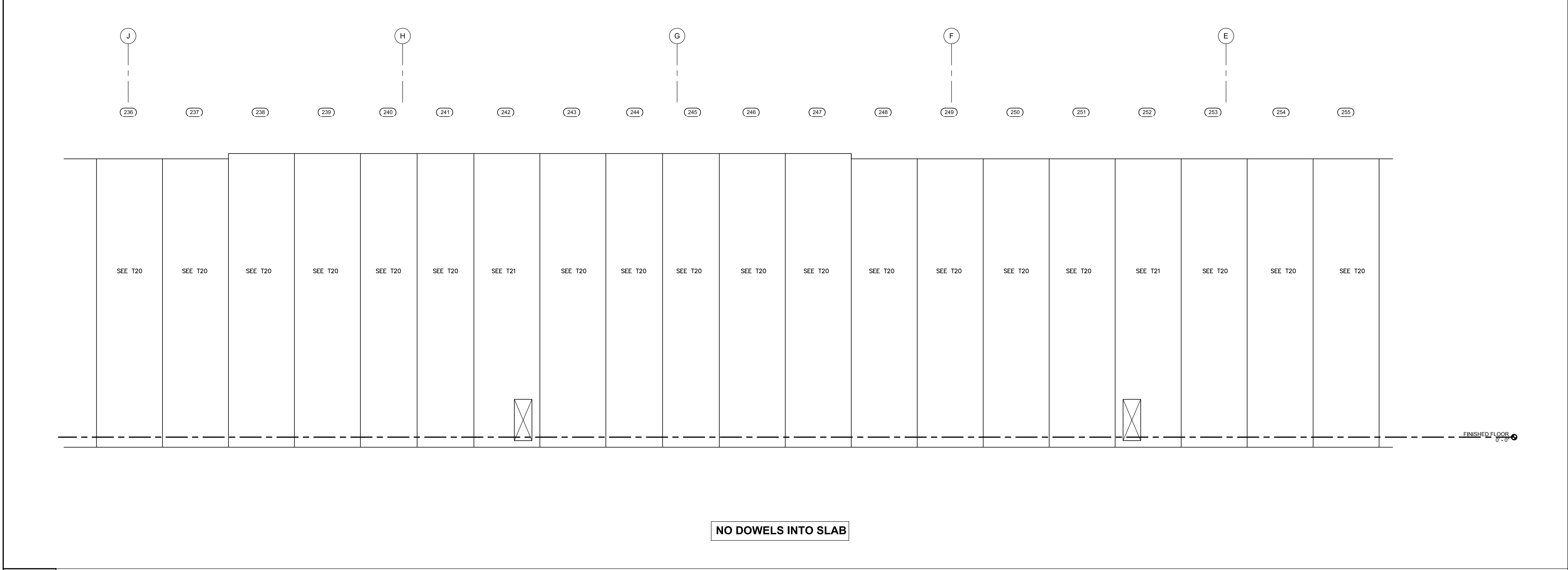

$$1/8'' = 1'-0''$$

|   |                                                                 |
|---|-----------------------------------------------------------------|
| 2 | <b>PARTIAL EAST PANEL ELEVATION (256 - 260) (9 1/4" PANELS)</b> |
|   | 1/8" = 1'-0"                                                    |



|   |                                                            |
|---|------------------------------------------------------------|
| 3 | <b>PARTIAL SOUTH PANEL ELEVATION 261- 270) (8" PANELS)</b> |
|   | 1/8" = 1'-0"                                               |



|   |                                                                 |
|---|-----------------------------------------------------------------|
| 1 | <b>PARTIAL EAST PANEL ELEVATION (236 - 255) (9 1/4" PANELS)</b> |
|   | 1/8" = 1'-0"                                                    |



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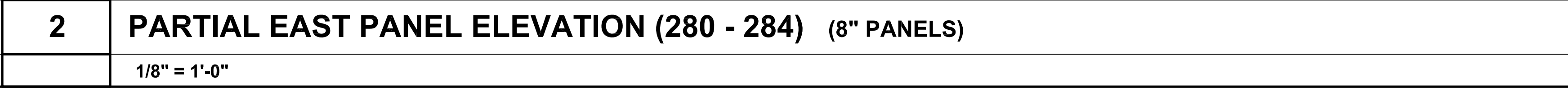
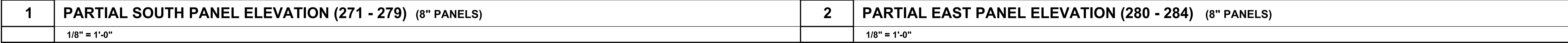
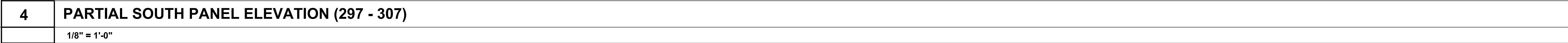
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**PANEL  
ELEVATIONS  
(236 - 270)**

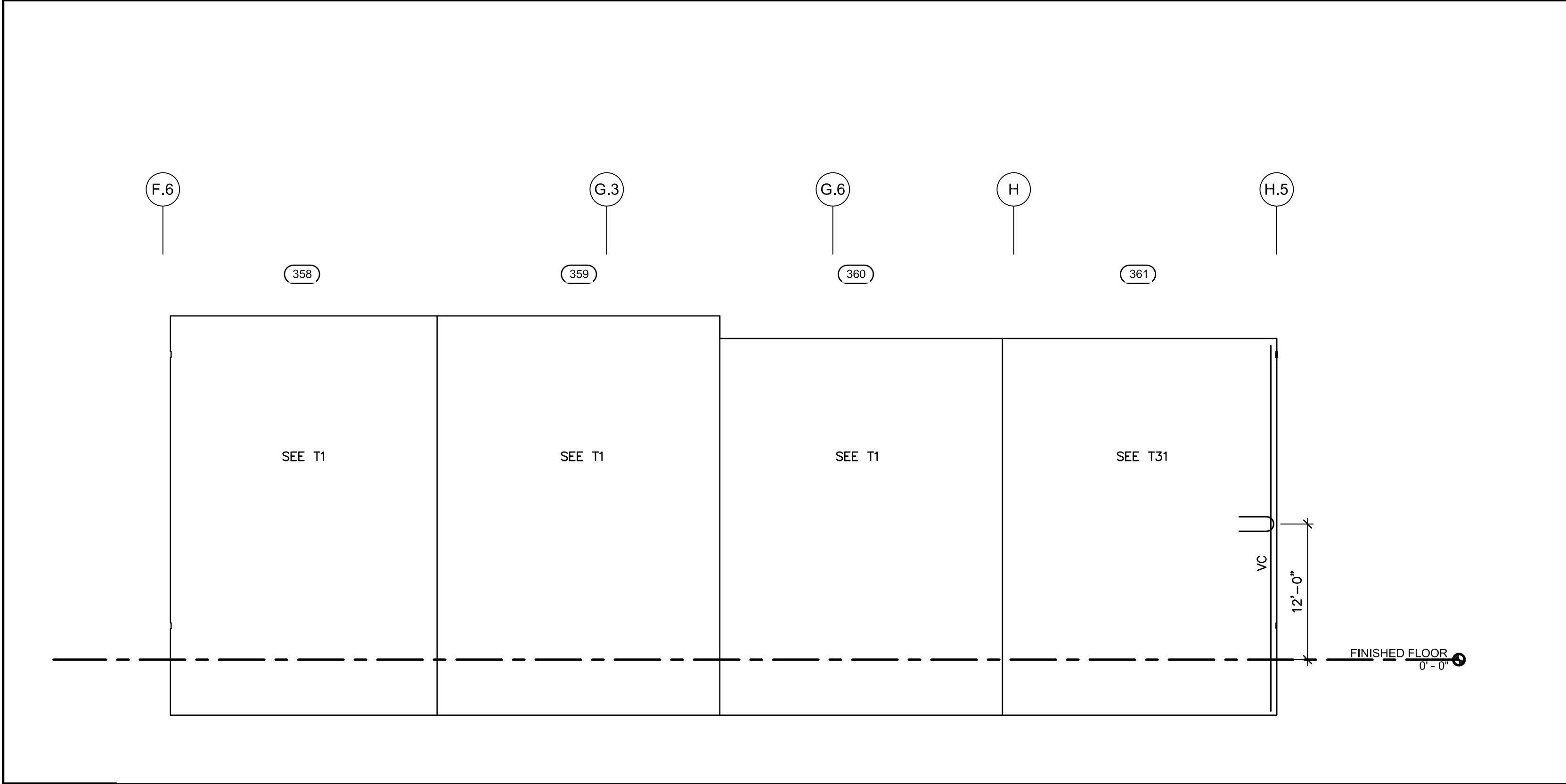
**SHEET NUMBER**

**S-311**

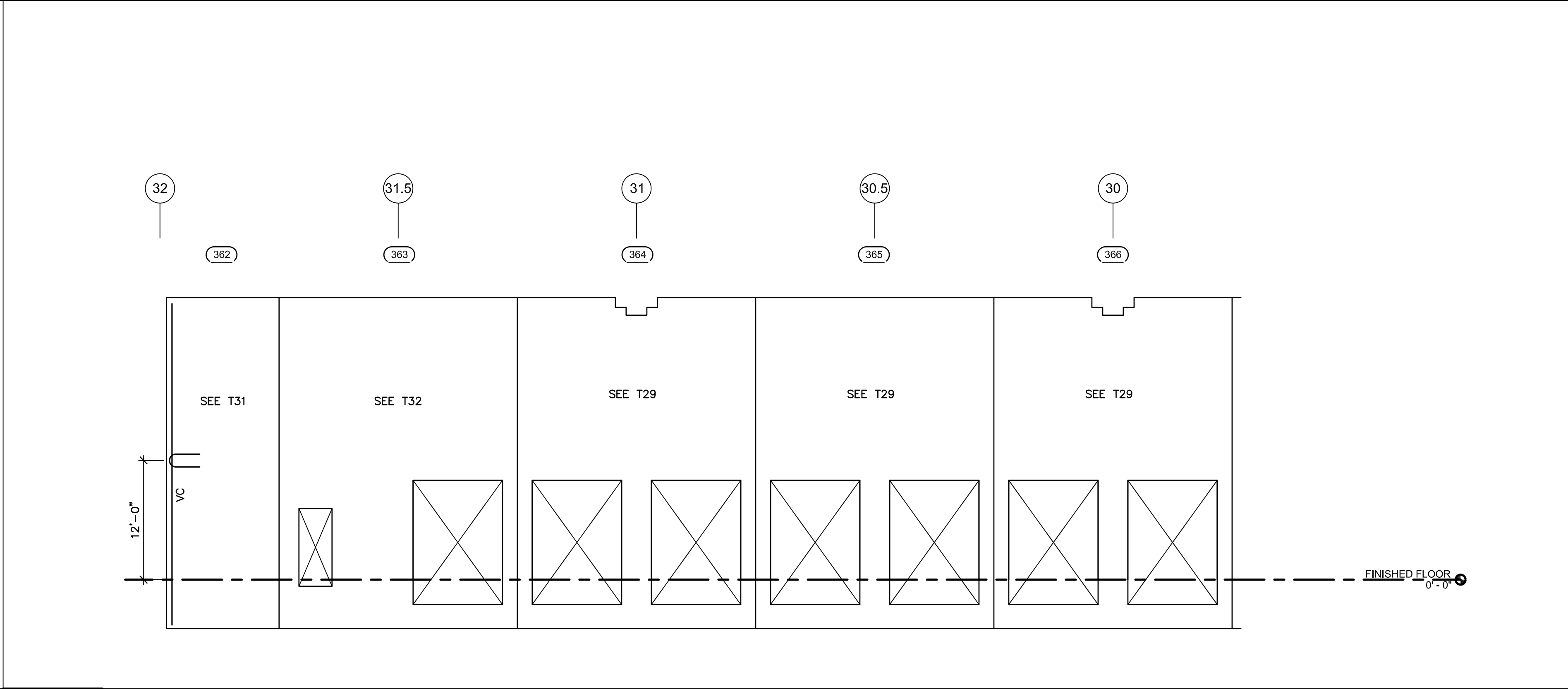
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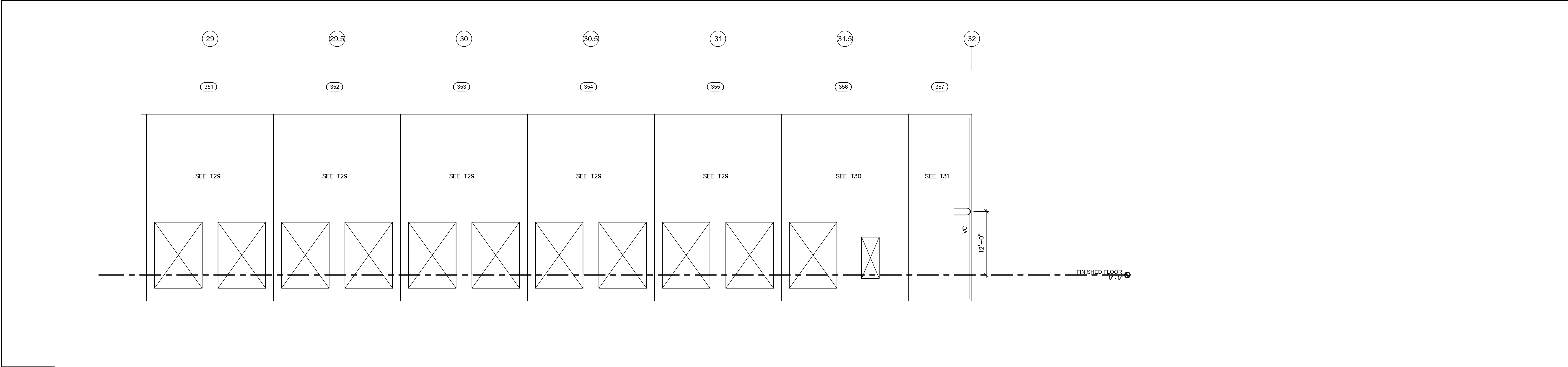




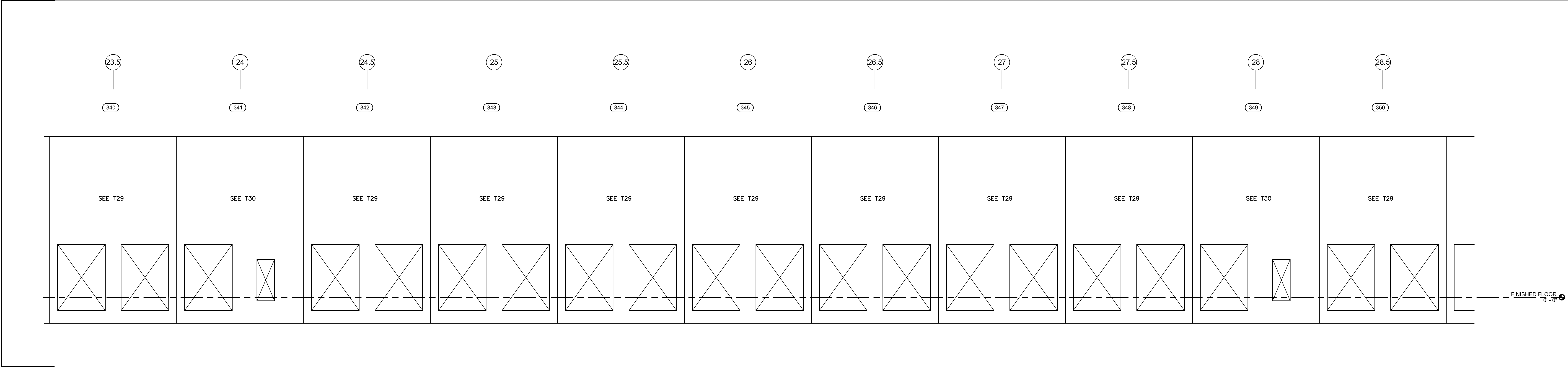
**3 PARTIAL WEST PANEL ELEVATION (358 - 361) (8" PANELS)**  
1/8" = 1'-0"



**4 PARTIAL NORTH PANEL ELEVATION (362 - 366) (8" PANELS)**  
1/8" = 1'-0"



**2 PARTIAL SOUTH PANEL ELEVATION (351 - 357) (8" PANELS)**  
1/8" = 1'-0"



**1 PARTIAL SOUTH PANEL ELEVATION (340 - 350) (8" PANELS)**  
1/8" = 1'-0"



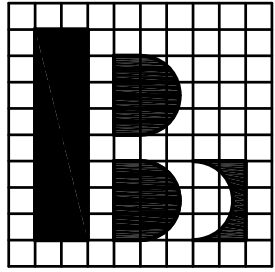
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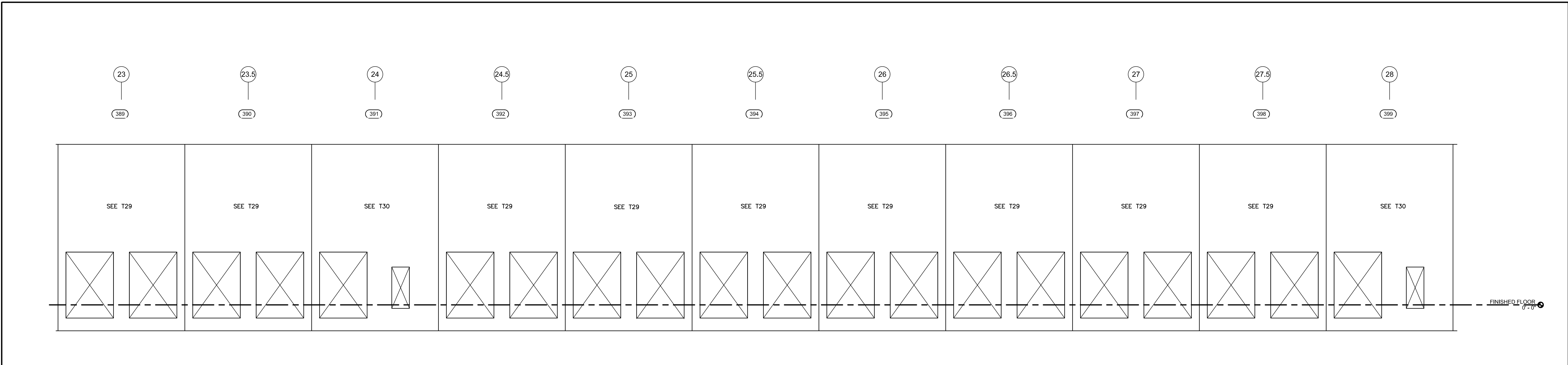
**PANEL  
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(340 - 366)**

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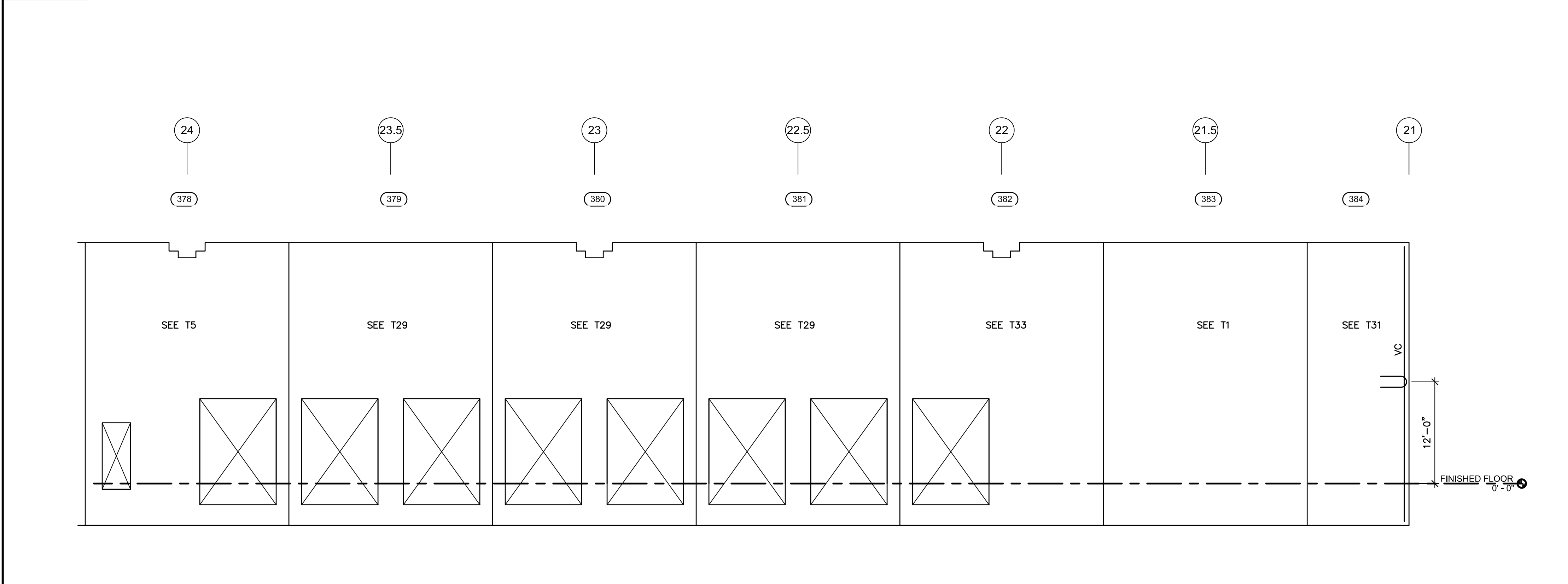
**S-314**

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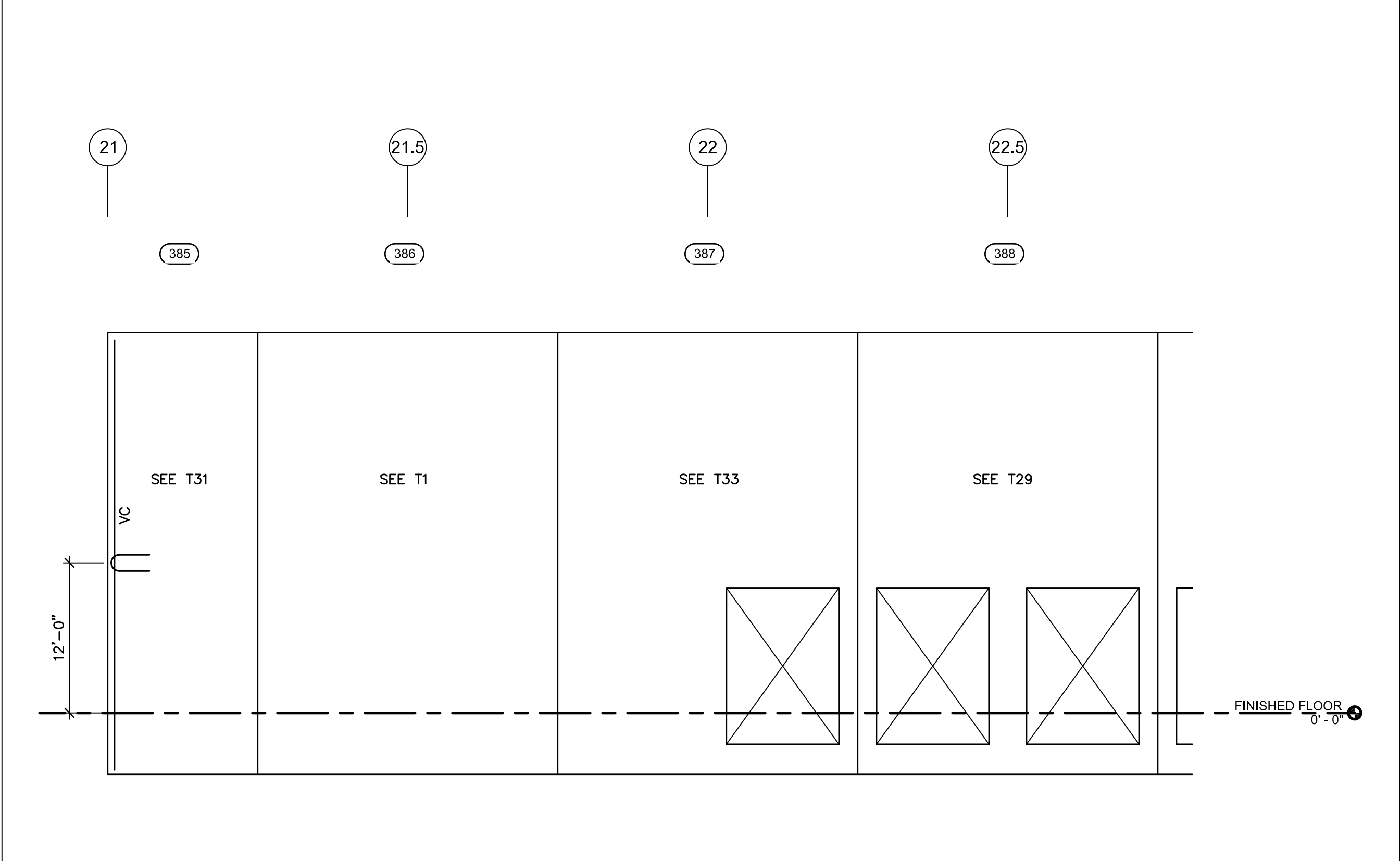
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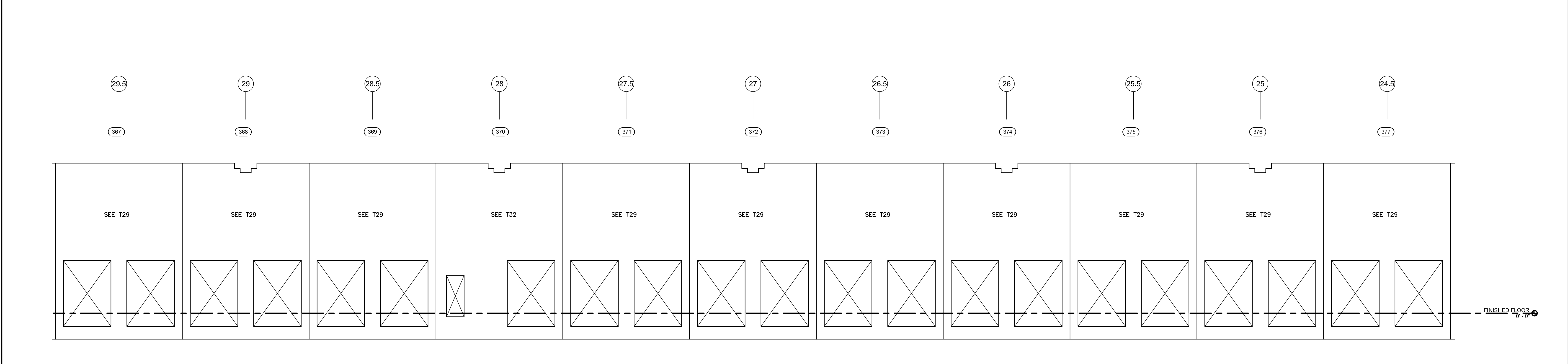
**4 PARTIAL SOUTH PANEL ELEVATION (389 - 399) (8" PANELS)**  
1/8" = 1'-0"



**2 PARTIAL NORTH PANEL ELEVATION (378- 384) (8" PANELS)**  
1/8" = 1'-0"



**3 PARTIAL SOUTH PANEL ELEVATION (385 - 388) (8" PANELS)**  
1/8" = 1'-0"



**1 PARTIAL NORTH PANEL ELEVATION (367 - 377) (8" PANELS)**  
1/8" = 1'-0"



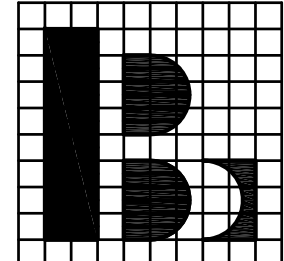
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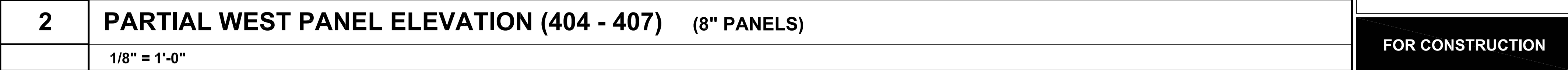
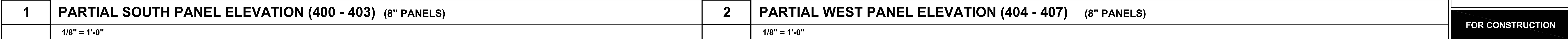
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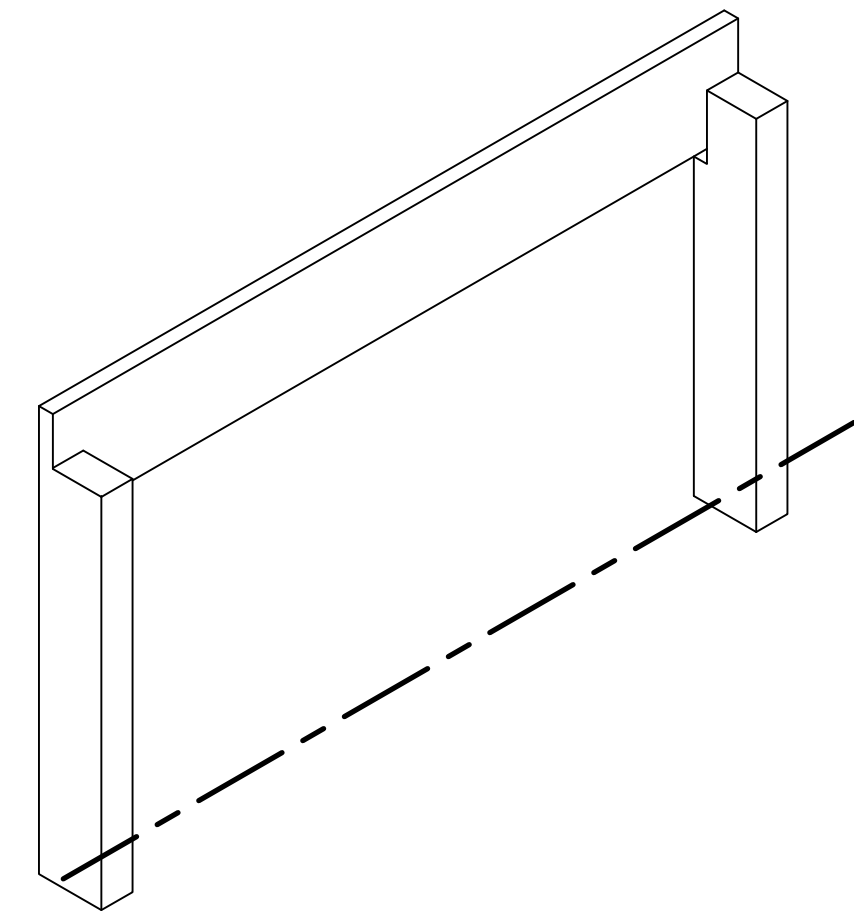
**PANEL ELEVATIONS (367 - 399)**

SHEET NUMBER

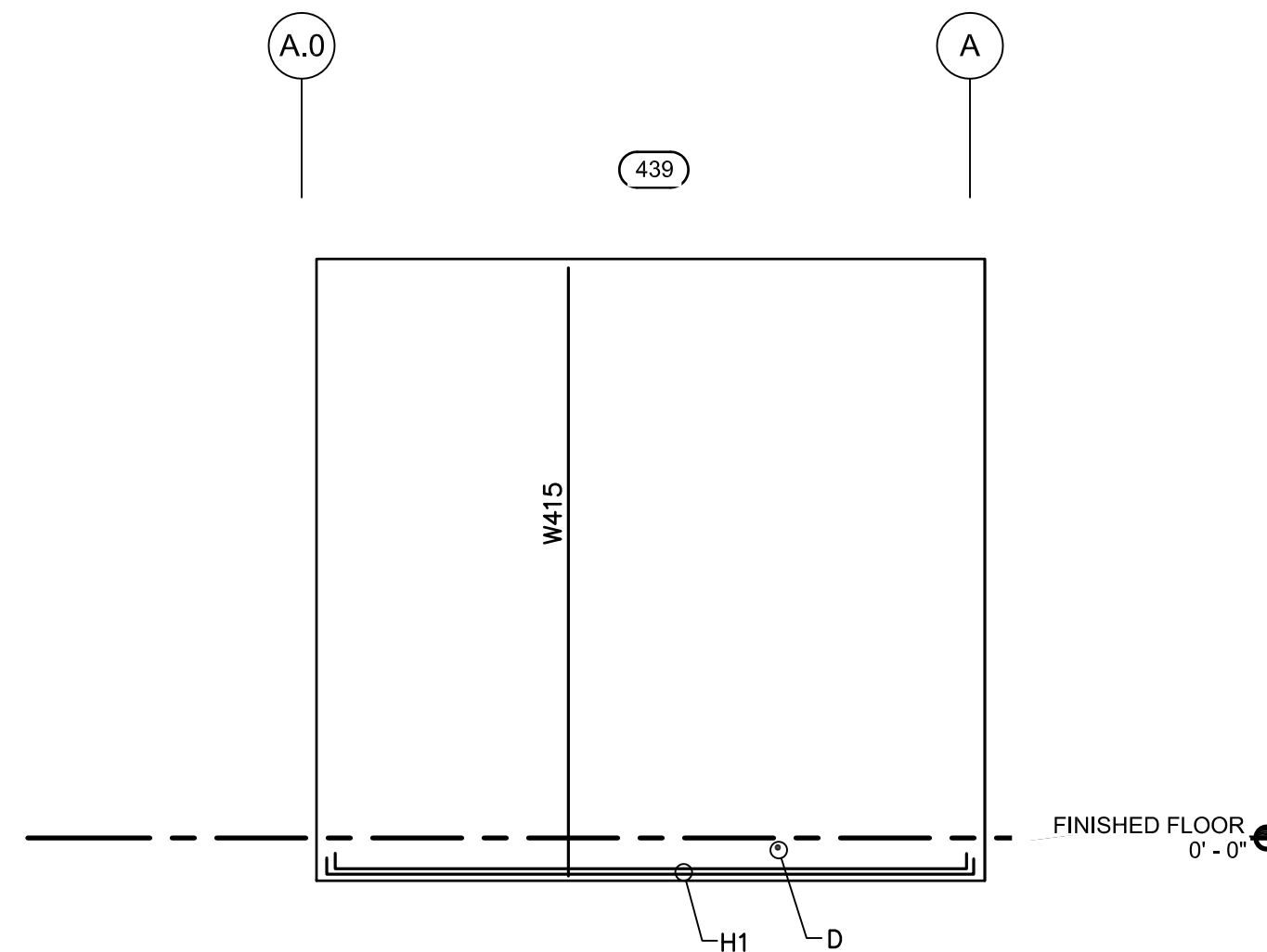
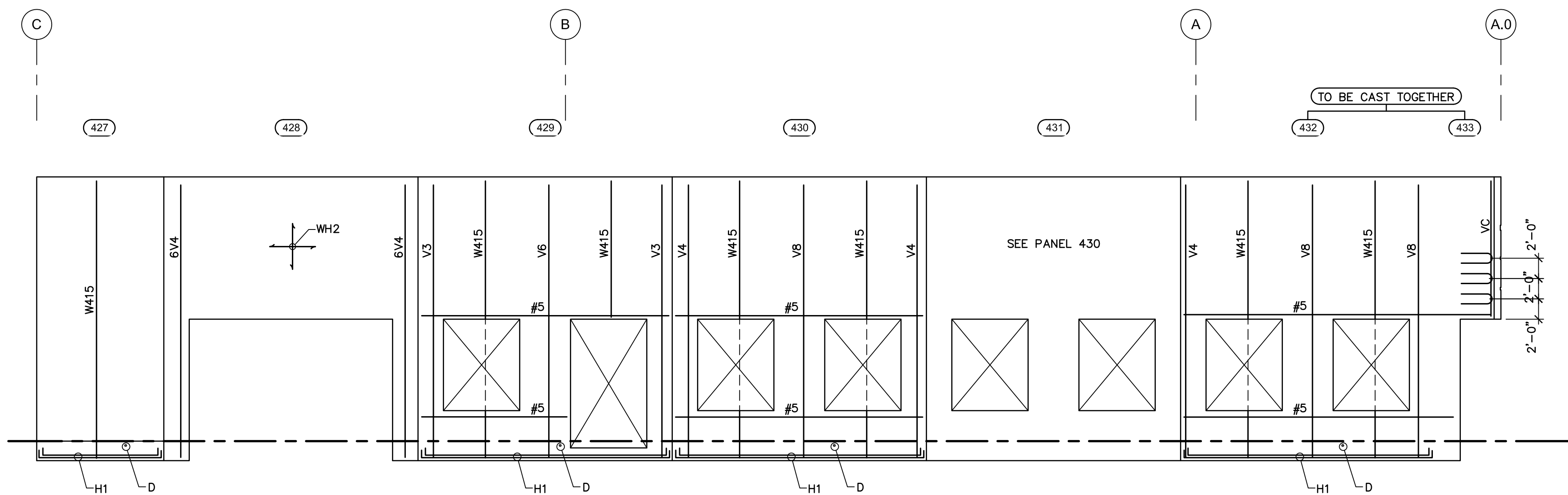
**S-315**

FOR CONSTRUCTION





|          |                             |
|----------|-----------------------------|
| <b>5</b> | <b>ISOMETRIC PANELS 444</b> |
|          | 1/8" = 1'-0"                |


$$1/8'' = 1'-0''$$


|          |                                                            |
|----------|------------------------------------------------------------|
| <b>2</b> | <b>MAIN OFFICE PANEL ELEVATION (427 - 433) (8" PANELS)</b> |
|          | 1/8" = 1'-0"                                               |



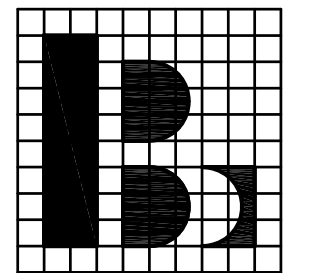
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**SHEET TITLE**

**PANEL PLAN -  
ELEVATIONS  
(427 - 445)**

**SHEET NUMBER**

**A-317**

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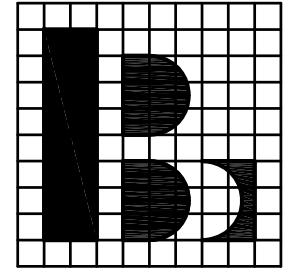
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PROCEEDING WITH EACH PHASE OF HIS WORK.  
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| DATE     | PROJECT NO |
|----------|------------|
| 07/24/13 | 2013-018   |

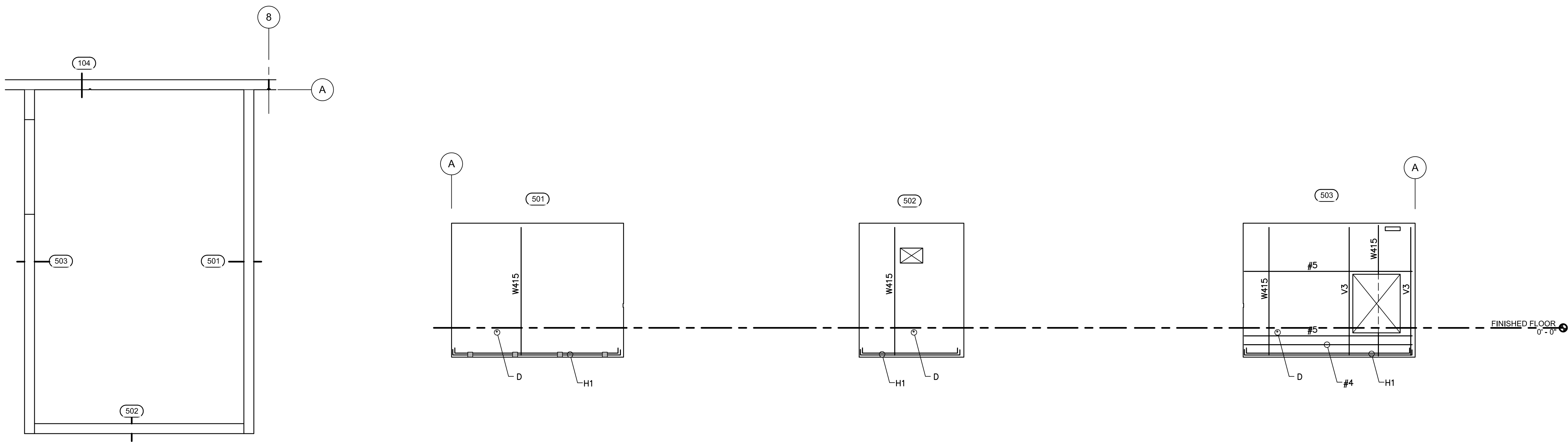
SHEET TITLE

**PANEL PLAN  
AND  
ELEVATIONS  
(446 - 447 AND  
501 - 503)**

SHEET NUMBER

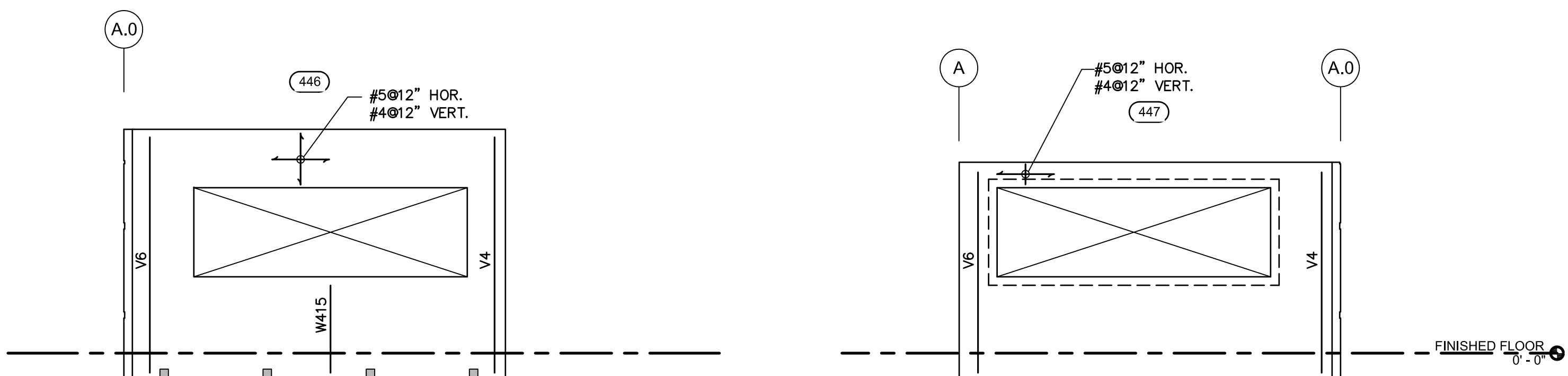
**S-318**

FOR CONSTRUCTION



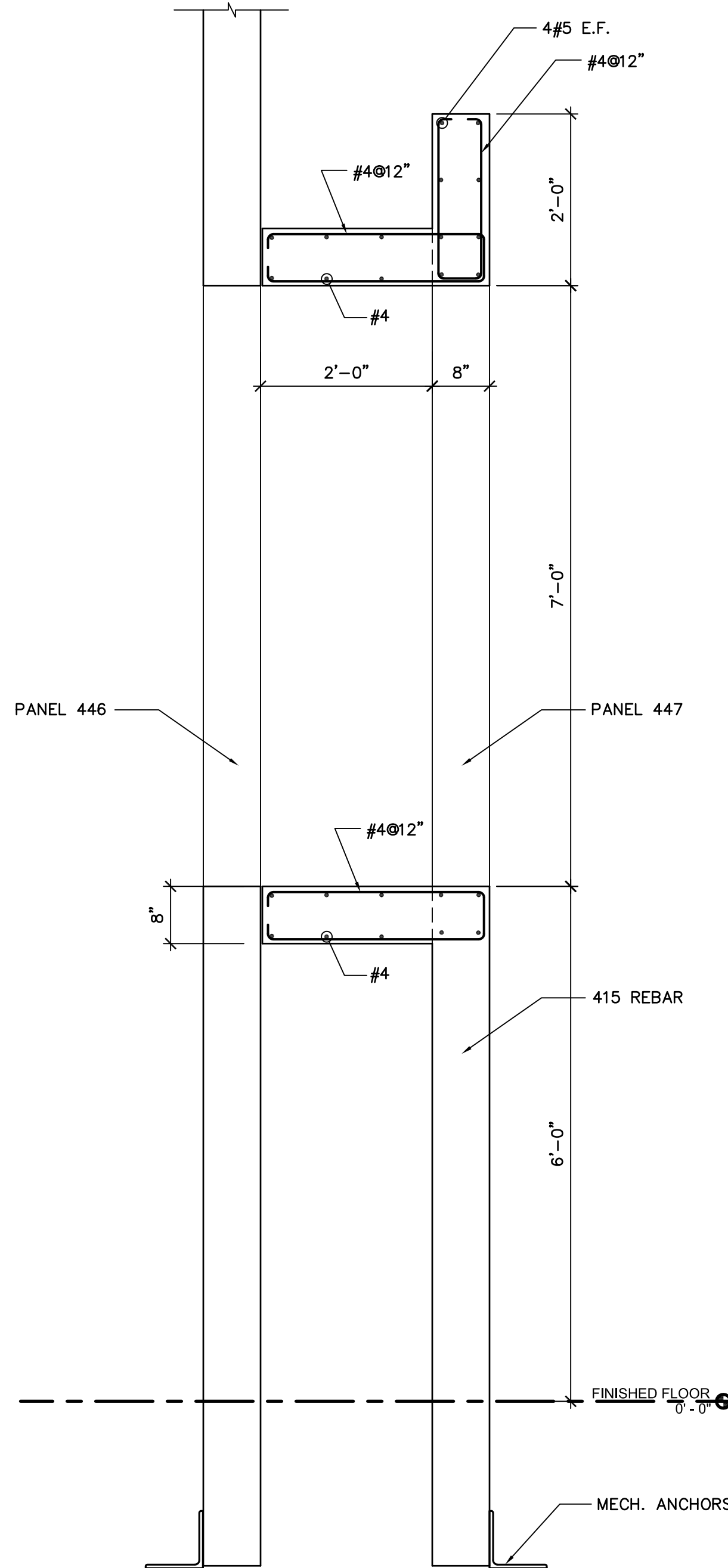
## 2 FIRE PUMP HOUSE PANEL PLAN AND ELEVATIONS (501 - 503) (8" PANELS)

1/4" = 1'-0"



## 1 WEST - EAST PANEL ELEVATION (446 - 447)

1/8" = 1'-0"



## 3 SECTION

1/8" = 1'-0"