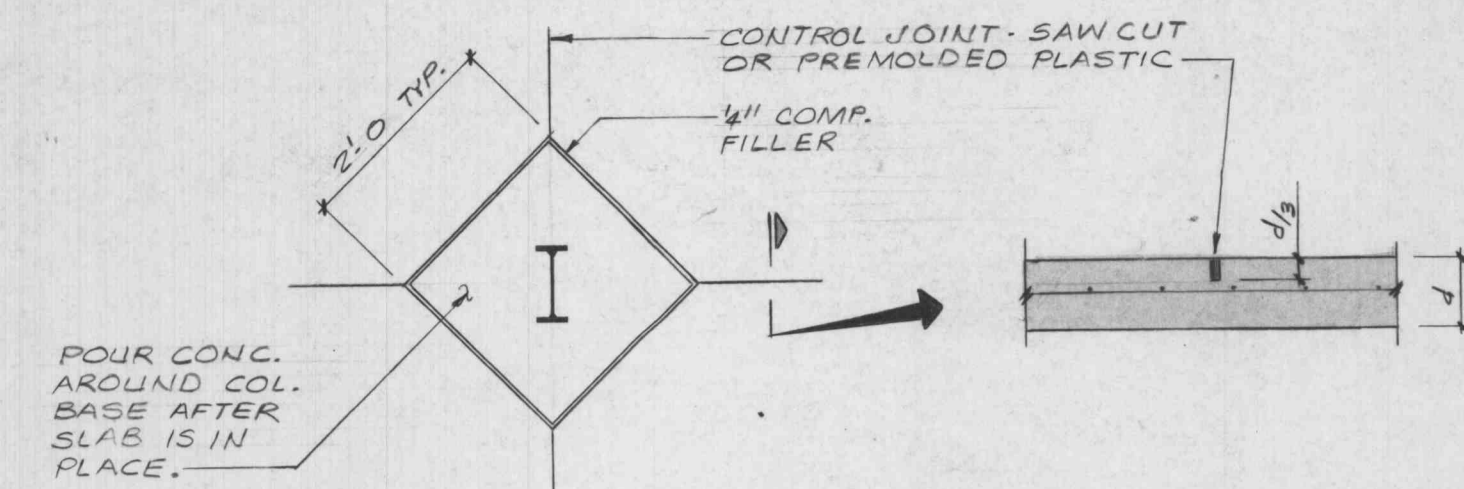


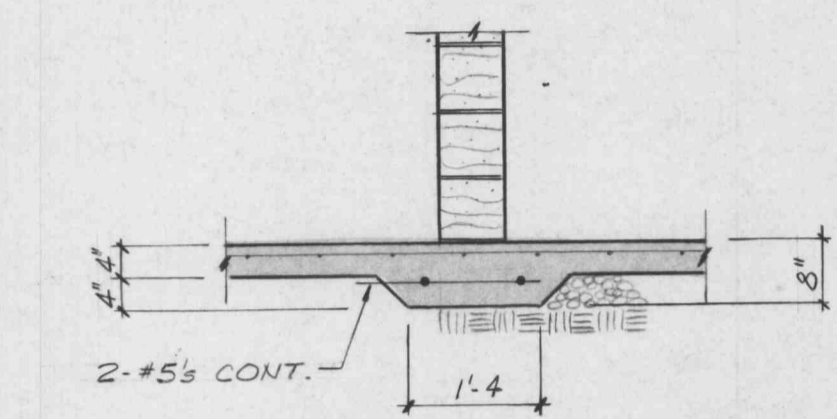
GENERAL NOTES

1. FIELD LAYOUT AND SHOP DETAILING THE CONTRACTORS MUST VERIFY AND COORDINATE DIMENSIONS ON ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY. UNLESS OTHERWISE SPECIFIED BY REVISED SHOP DRAWINGS OR PERIODIC OBSERVATIONS OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING ELEVATION, SHORING, SCAFFOLDING, BRACING, ERECTION, FORMWORK, ETC.), FOR COORDINATION OF THE VARIOUS TRADES AND FOR SAFE CONDITIONS ON THE JOB SITE. VARIATIONS IN FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT. WORK SHALL NOT PROCEED UNTIL WRITTEN PERMISSION FROM THE ARCHITECT IS OBTAINED.
2. **CONCRETE**
 - A. ACI 318 Building Code Requirements for Reinforced Concrete.
 - ACI 315 Manual of Standard Practice for Detailing Reinforced Concrete Structures.
 - ACI 347 Recommended Practice for Concrete Formwork.
 - ACI 304 Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete.
 - ACI 309 Recommended Practice for Consolidation of Concrete (ACI 309-77).
 - ACI 308 Recommended Practice for Curing Concrete.
 - ACI 306 Recommended Practice for Cold Weather Concreting.
 - ACI 305 Recommended Practice for Hot Weather Concreting.
3. All detailing, fabrication and erection of reinforcing bars and their support in the form with accessories must follow the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315-latest).
4. Concrete cover over main reinforcing shall be as follows: footing 3", slabs on ground 1 1/2", wall 2" where exposed to action of weather or ground. All bars including temperature bars are to extend to within 3" of the outer faces of members into which they frame.
5. All poured in place concrete shall be ready-mixed and hauled in accordance with ASTM C94 with a minimum 28 day compressive strength of 3000 psi and a minimum of 5 1/2 sacks of cement per cubic yard. Foundation walls and footings to have a maximum slump of 2" to 5". Slabs on grade and walls to have a maximum slump of 2" to 4". Use a water reducing agent (ASTM C494 Type A or D) and air entraining agent (ASTM C260, 65 ± 1%) in all concrete. The agents must be compatible with each other and all other ingredients in the concrete. Fine aggregate shall be clean, hard, durable and free of deleterious substances and shall conform to ASTM C33. Coarse aggregate shall be clean, hard, durable without flat or elongated pieces and shall conform to ASTM C33 #57. Portland cement shall conform to ASTM C150 Type 1. Water shall be potable. Forms shall be plywood in good condition. Apply form release agent to all forms in accordance with manufacturers recommendations. Make one set of four cylinders for each major pour or each 50 cubic yards. Test one at 7 days and two in 28 days per ASTM C39. Mill test reports for reinforcing bars and cements are acceptable. All tests shall be by independent. Submit all test reports to the CONSTRUCTION MANAGER.
6. Reinforcing bars are to be ASTM A601-grade 60 steel. Welded wire fabric ASTM A185, 6 x 6 - W 1.4 x 1.4. Welded wire fabric must lap 2" at sides and 6" at ends and be wired together.
7. The Architectural and Mechanical drawings must be referred to for all mechanical floor requirements and the various trades are responsible for placing of sleeves, outlet boxes, anchors, etc., that may be required.
8. Dowels in wall footings to be equivalent in size and number to vertical bars. Dowels must be in position before placing concrete. Pushing bars into freshly placed concrete is not acceptable.
9. All bars shall lap a minimum of 36 diameters with 1' - 6" minimum lap. Temperature bars in walls shall have 1' - 0" minimum lap. Any splice of bars other than shown on plan must have prior approval of the Structural Engineer.
10. Footings have been proportioned for a maximum soil pressure of 2000 psf. Bottom of footings must extend 1' - 6" below present grade or into "engineered fill" and 2' - 6" below proposed grade and must be on undisturbed soil or "engineered fill". Soil bearing pressure is assumed based on information furnished by soil consultant and should be verified at the site by a qualified Soils Engineer.

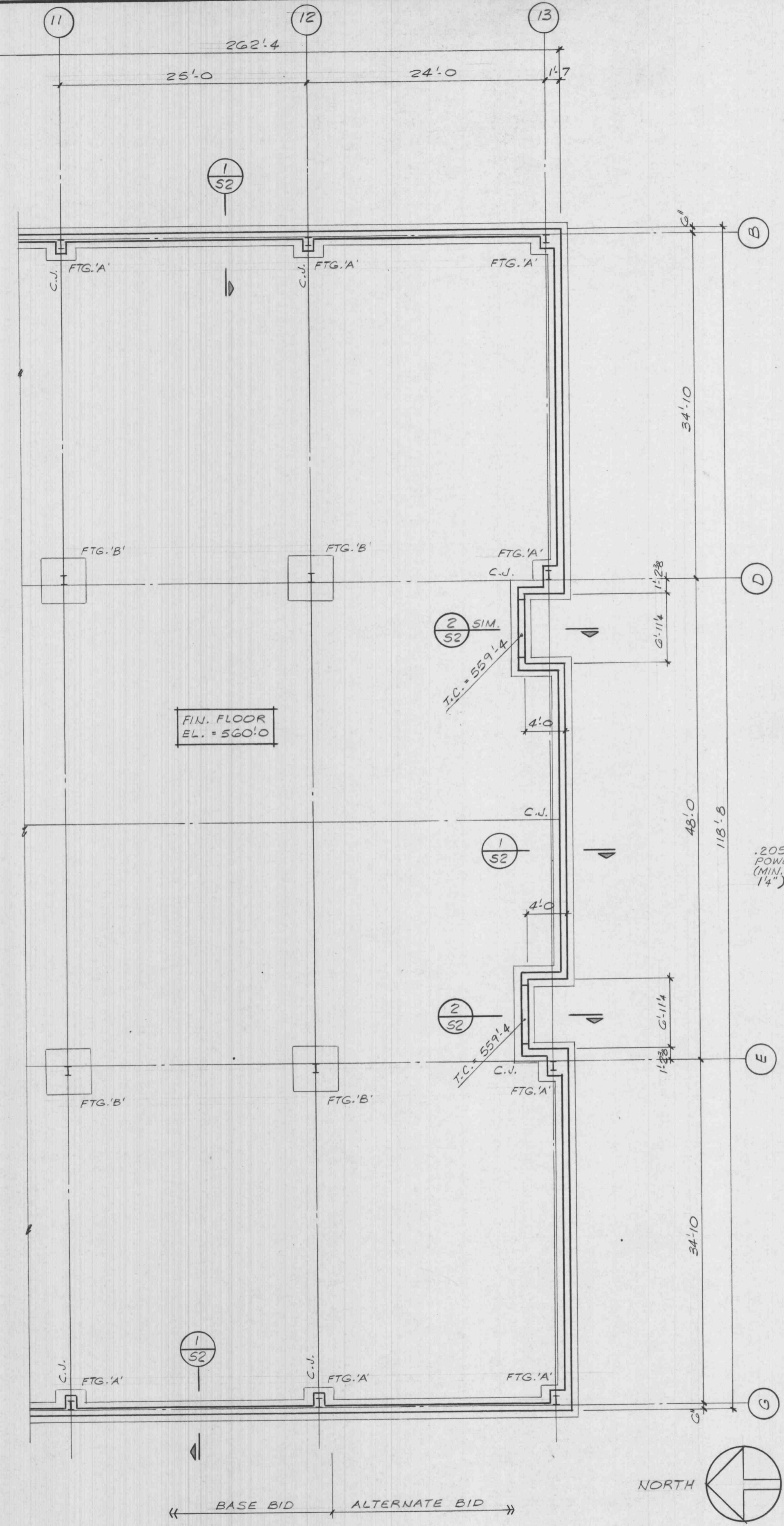
- LIGHT GAUGE STEEL FRAMING**
1. All steel joist and track designations are based on Inryco/Milcor light gauge steel framing. Alternates may be substituted which equal or exceed the properties of the specified member when approved by the architect.
 2. All framing shall be galvanized. Touch up all welds and damaged areas with approved galneizing touch up paint.
 3. All connections shall be welded U.N.O. Welding shall be in accordance with (A.S.S.) D 1.3, structural welding code - sheet steel.
 4. Fabrication and erection shall be in accordance with manufacturers specifications.



TYP. COL. ISOLATION & CONTROL JT. DETAIL

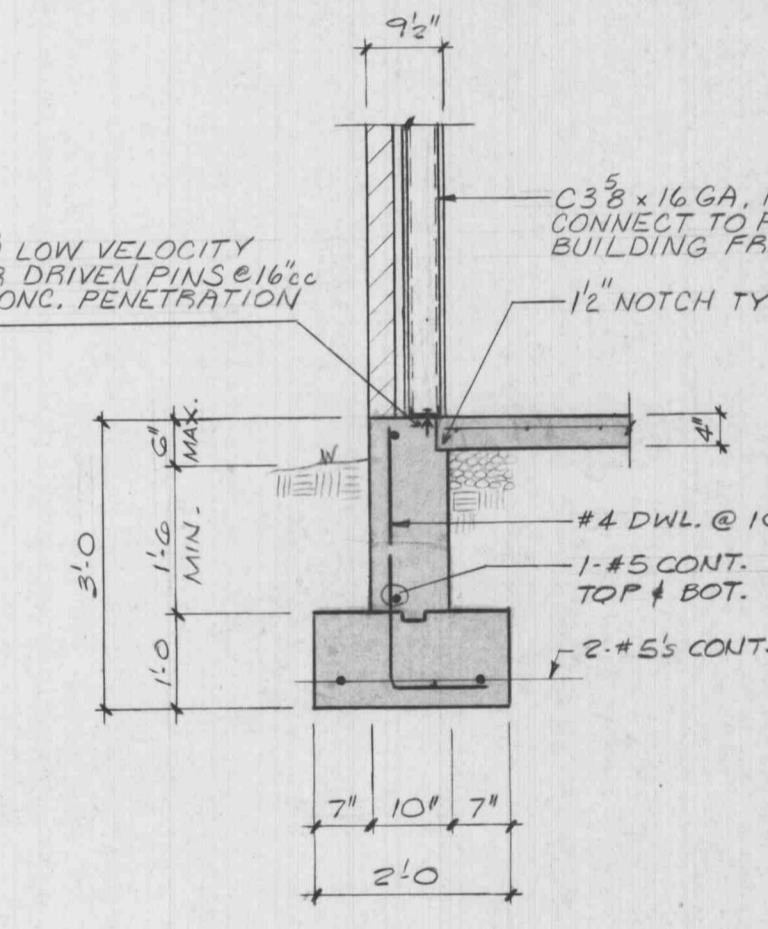


TYP. THICKENED SLAB DETAIL

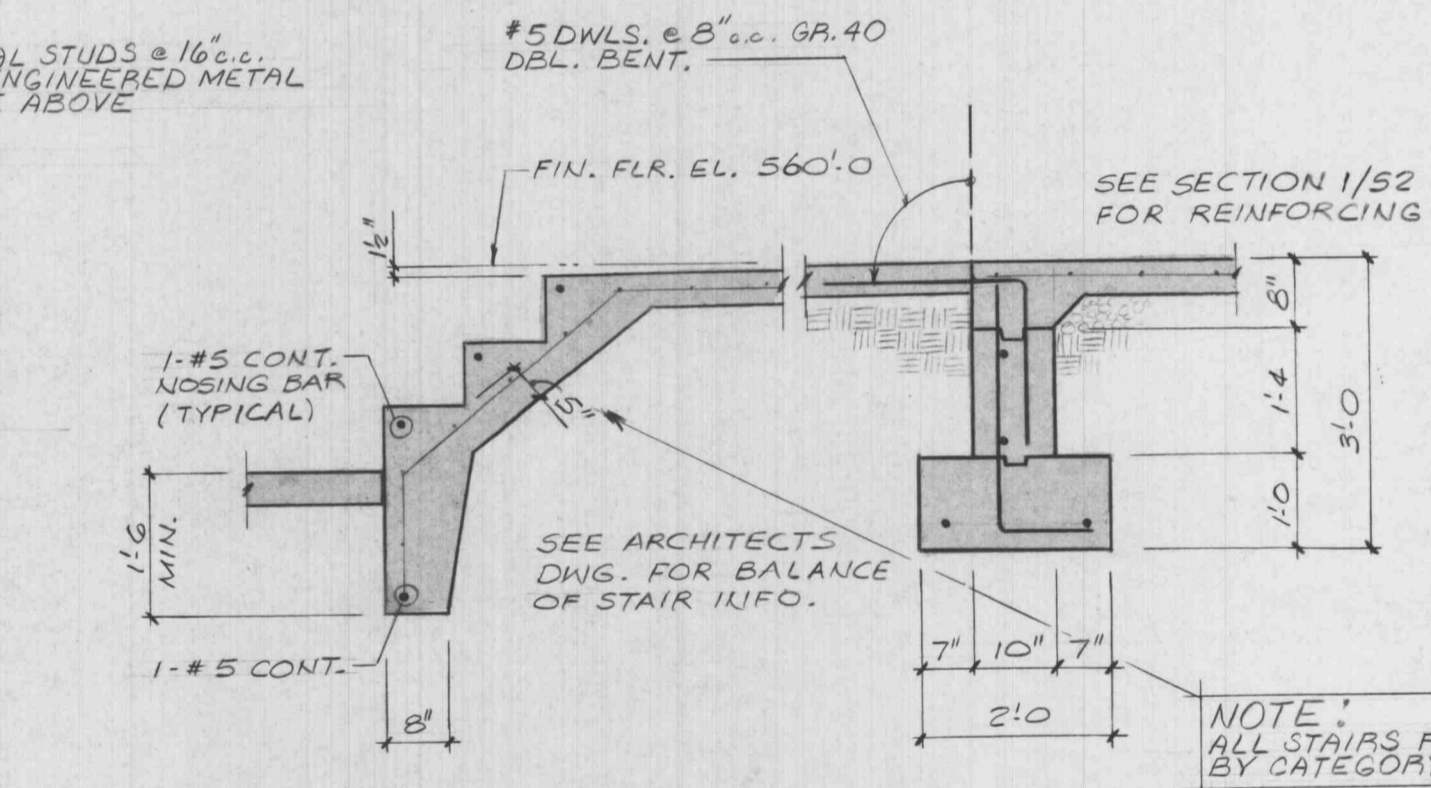


MEZZANINE FLOOR FRAMING PLAN 1/2" = 1'-0"

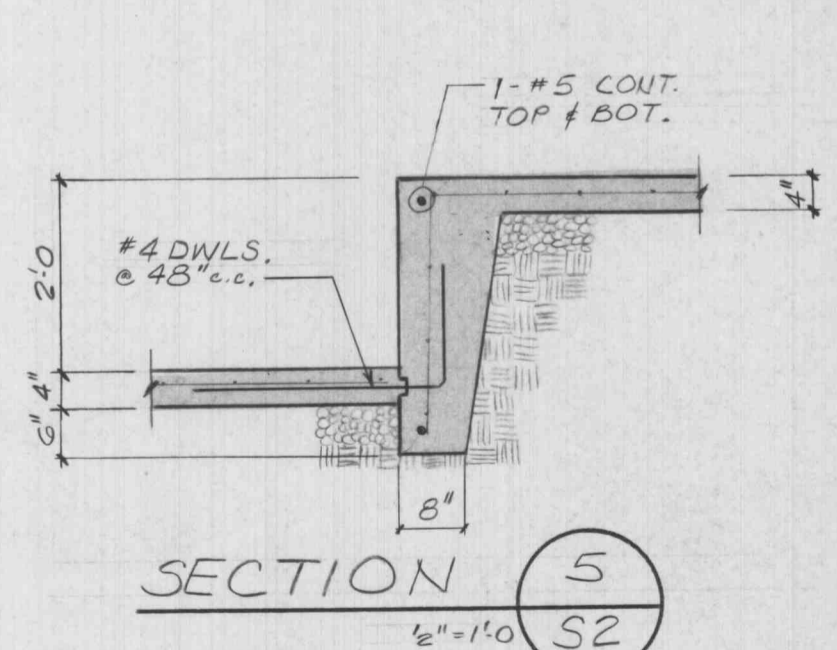
1. MEZZ. FLOOR CONSTRUCTION: 3" CONC. SLAB - REINF. w/ 6" x 6" W14 W.W.F. ON 3/4" DEEP 28 GA. CORRUGATED STEEL, CENTERING WELD CENTERING TO SUPPORTING STEEL w/ 3/8" P UDDLE WELDS @ 12" o.c. USING WELDING WASHERS.
2. MEZZ. FLOOR FIN. SLAB EL. 569'-9 1/2"



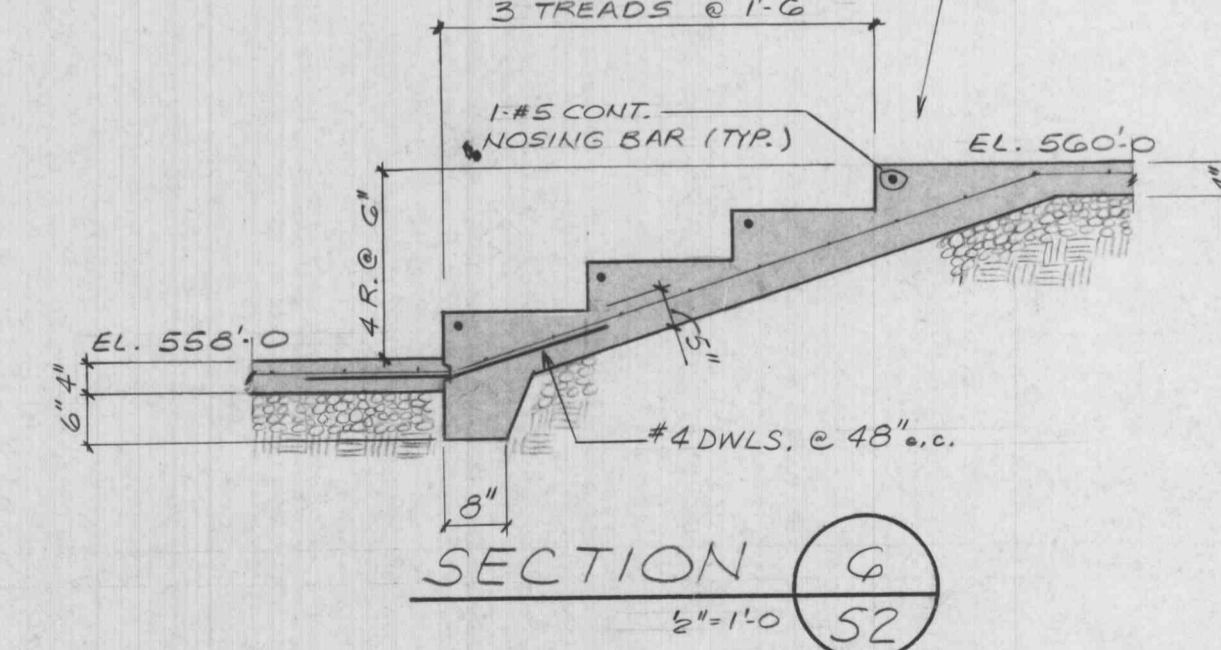
SECTION 1 1/2" = 1'-0" S2



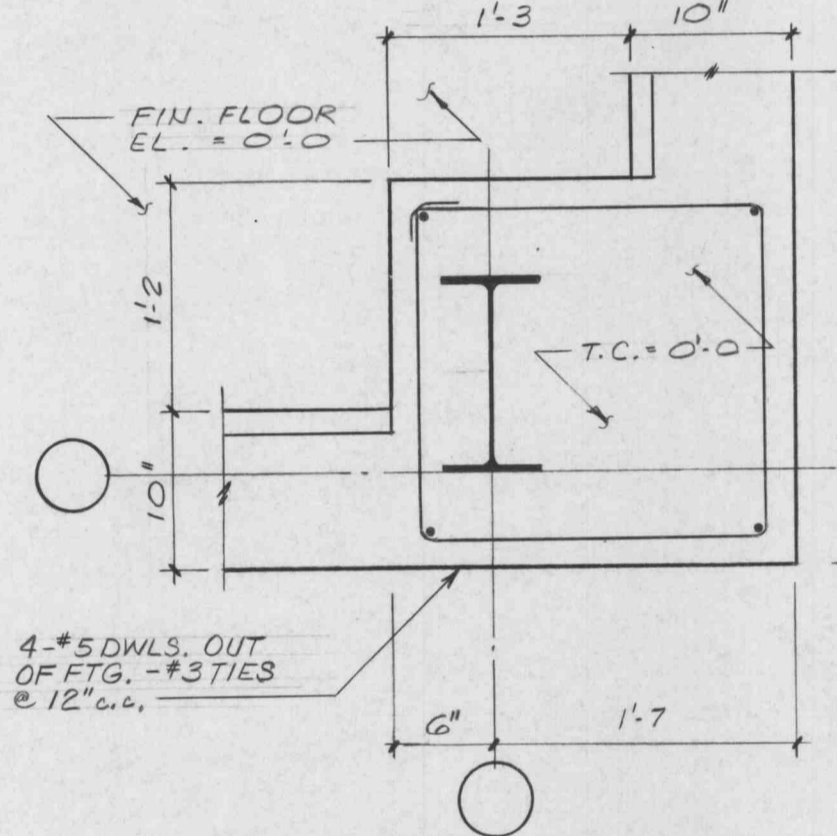
SECTION 2 1/2" = 1'-0" S2



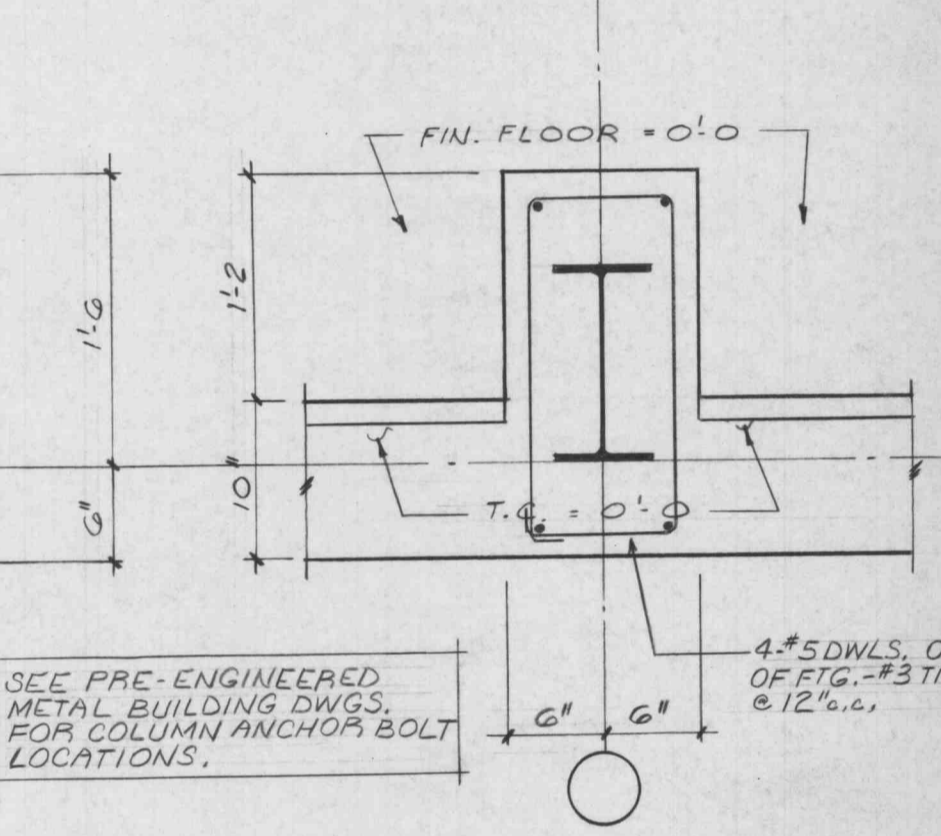
SECTION 5 1/2" = 1'-0" S2



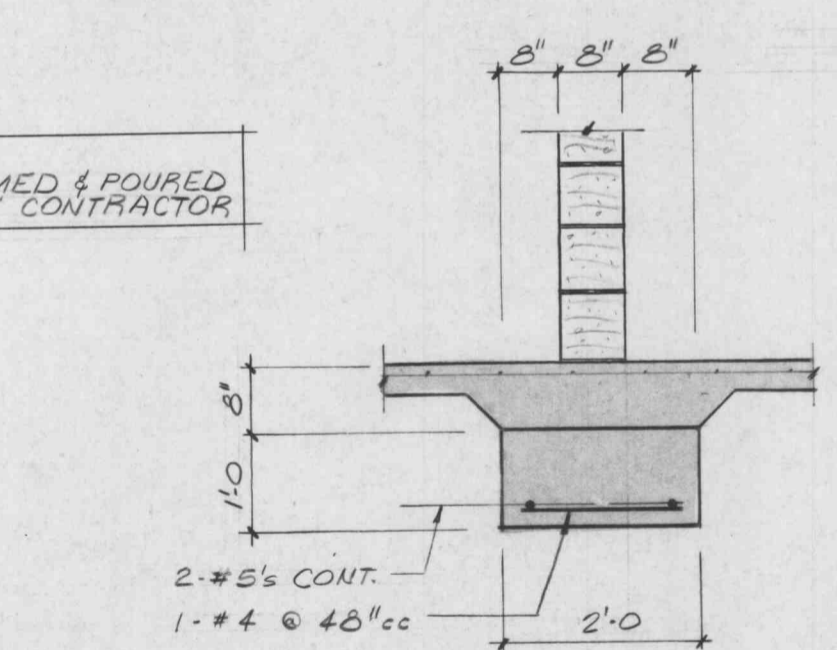
SECTION 6 1/2" = 1'-0" S2



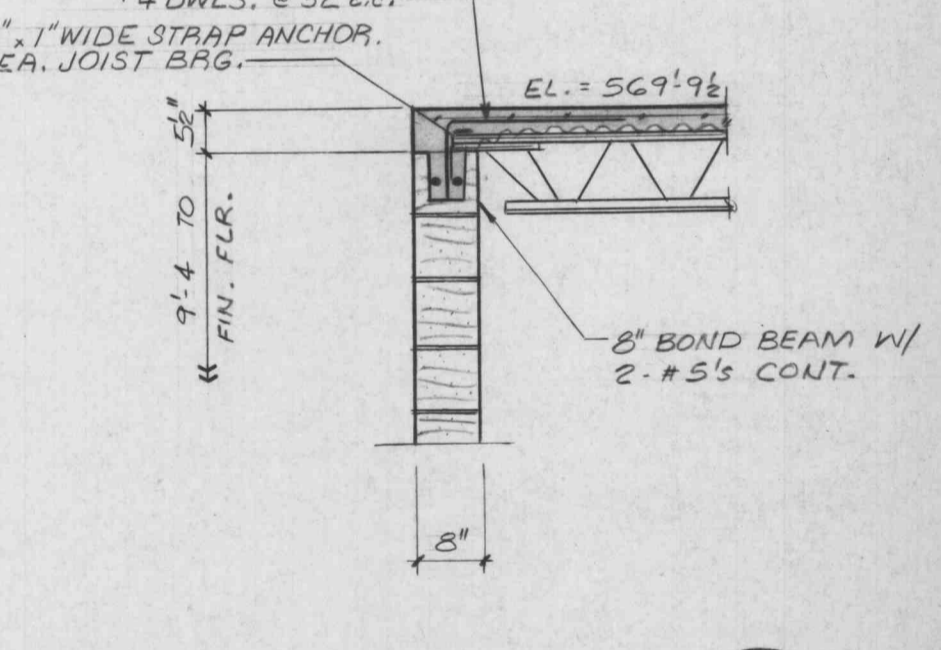
DETAIL 3 1/4" = 1'-0" S2



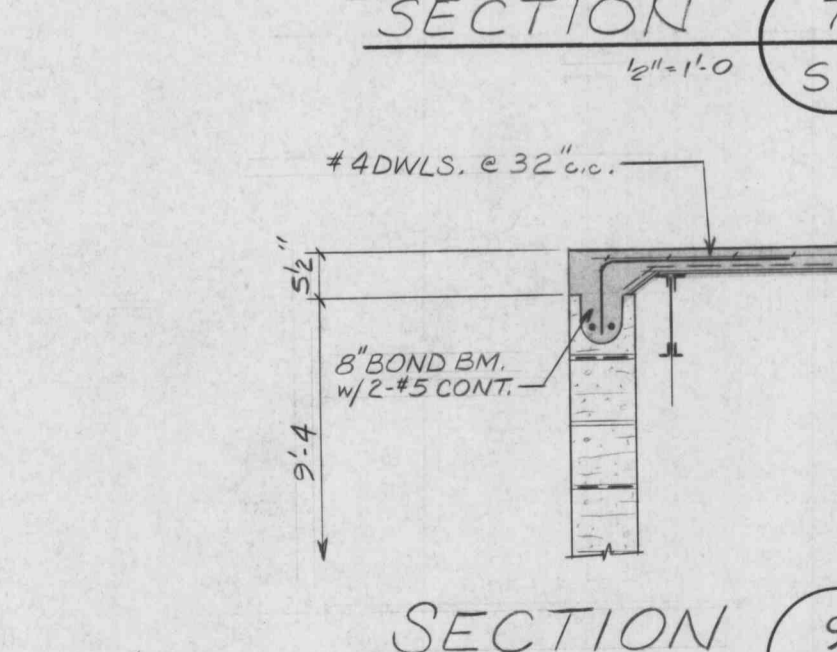
DETAIL 4 1" = 1'-0" S2



SECTION 7 1/2" = 1'-0" S2



SECTION 8 1/2" = 1'-0" S2



SECTION 9 1/2" = 1'-0" S2

PARTIAL FOUNDATION PLAN W/ ALTERNATE 1/8" = 1'-0"

NOTE: SEE SHEET S-1 FOR BALANCE OF INFORMATION NOT SHOWN.

PICKETT RAY & SILVER	civil engineers
SOIL CONSULTANTS INC	soil engineers
L. WEINTRAUB & ASSOC	structural engineers
THOMAS BERKELEY	mechanical engineers

the DMA corporation
Design & Management Associates

314-946-2060 202 Transit Street St. Charles, Mo. 63301

NEW ELEMENTARY SCHOOL
ft. zumwalt school district missouri

ALTERNATE #1
FOUNDATION PLAN
& FOUNDATION
DETAILS

Revisions:				
△		△		
△		△		
△		△		
△		△		

Job No. 602108
S-2
Date: 7-7-86
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