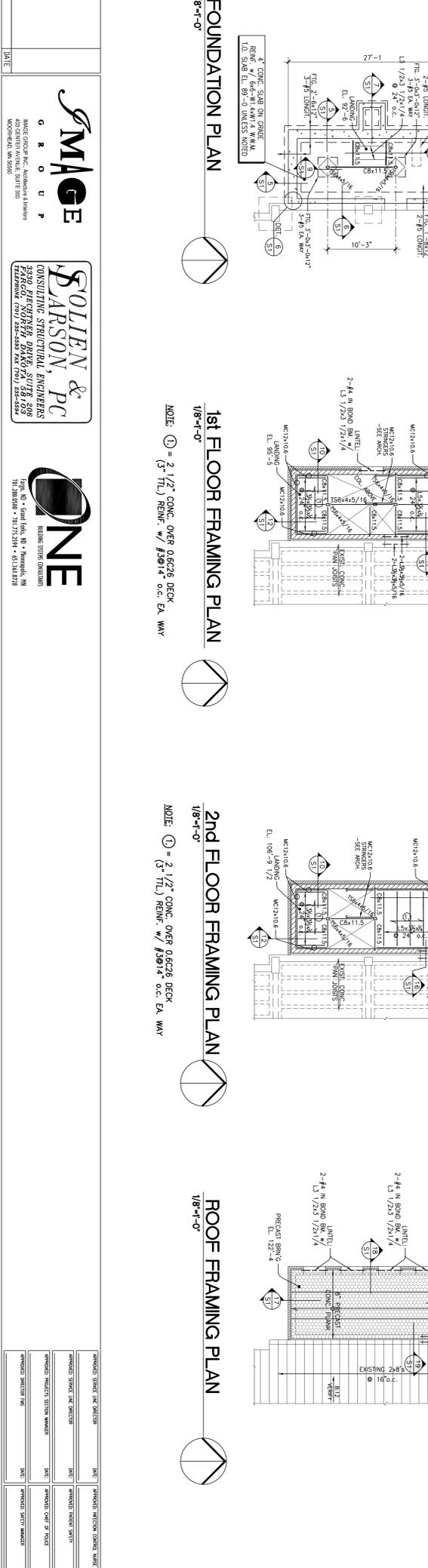
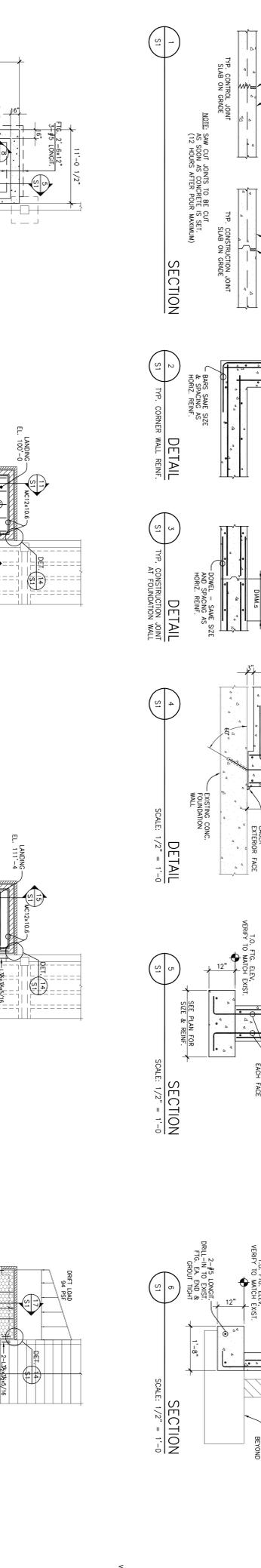
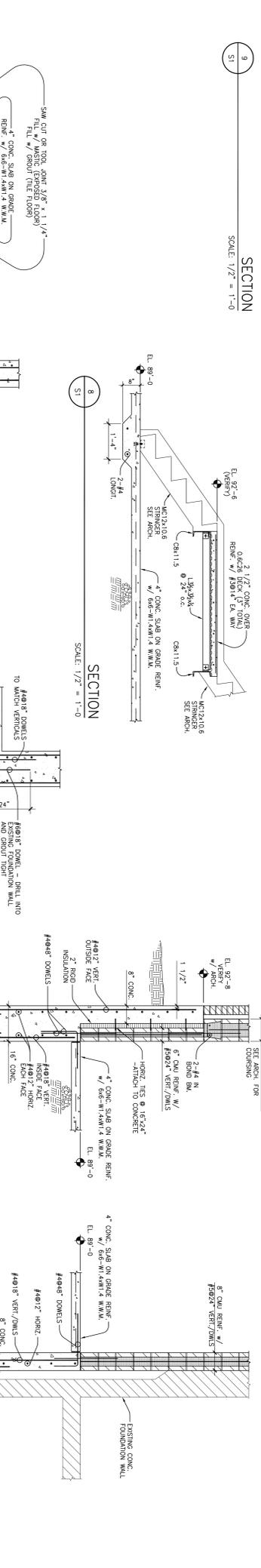
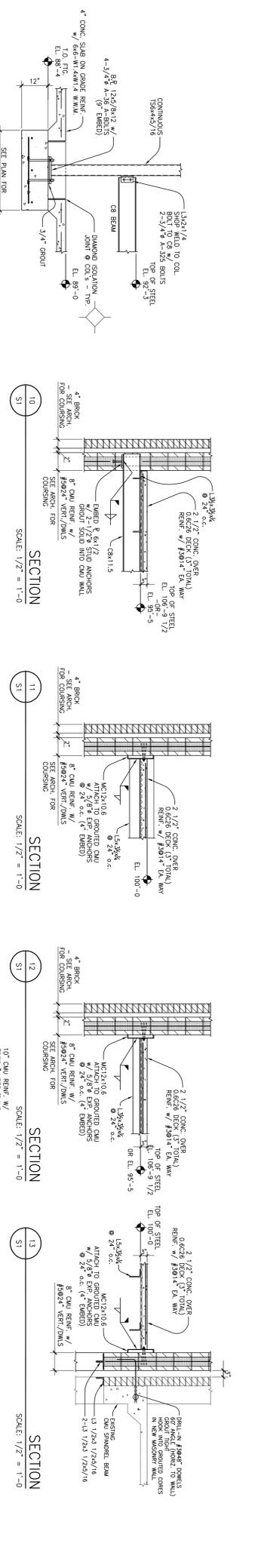
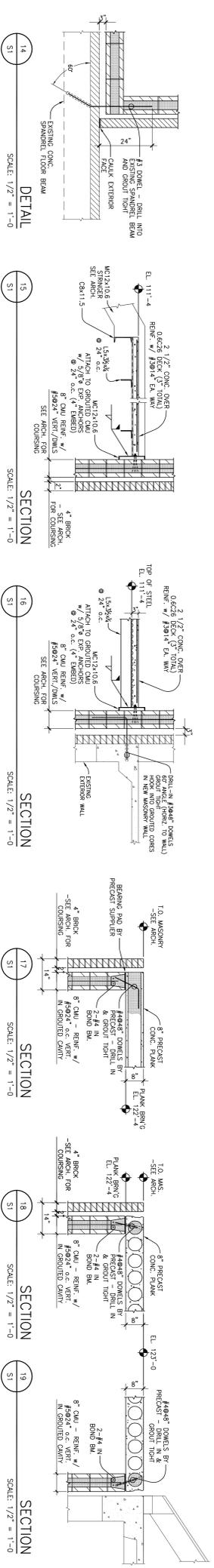


GENERAL STRUCTURAL NOTES

- Design Codes Used:
  - ACI Concrete Code
  - AISC Code
- Design Live Loads:
  - Roof Snow Load:  $P_f = 50 \text{ psf} + \text{DRH}$
  - Roof:  $C_e = 0.3$
  - Roof:  $C_t = 1.0$
  - Roof:  $W = 100 \text{ psf}$  Basic Wind Speed
  - Roof:  $I_m = 1.15$
  - Roof: Wind Exposure B Coefficient 10.18
- Design Stresses Used:
  - Slabs on Grade:  $3000 \text{ PSI} @ 28 \text{ days}$
  - Foundations and Retention Walls:  $3000 \text{ PSI} @ 28 \text{ days}$  (or extended)
  - Other:  $4000 \text{ PSI} @ 28 \text{ days}$
  - Steel:
    - W Shapes:  $F_y = 50 \text{ ksi}$  (ASTM A588)
    - Plates:  $F_y = 50 \text{ ksi}$  (ASTM A572)
    - Angles, Channels, Bars:  $F_y = 50 \text{ ksi}$  (ASTM A36)
    - Reinforcing Steel:  $F_y = 60 \text{ ksi}$  (ASTM A603)
    - Cast-in-place concrete:  $4000 \text{ psi}$  (assumed)
- Foundations to rest on unimproved soil or engineered fill.
- All walls and piers to extend on footing unless otherwise noted.
- All footing elevations are given to the top of footings.
- ALL FOUNDATION WALLS TO BE DEEPLY SUPPORTED BEFORE BACKFILLING.
- OPENINGS IN CONCRETE FOUNDATION WALLS SHALL BE REINFORCED WITH UNLESS OTHERWISE NOTED.
- CONCRETE CONCRETE FOR RETENTION SHALL BE AS FOLLOWS:
  - 3 1/2" inches
  - 1 1/2" inches
  - Columns and Piers: 1 1/2" inches @ single layer
  - Walls: 3/4" inch @ interior
  - 3/4" inch @ exterior
- Standard Notes:
  - PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ACI Detailing Manual.
  - REINFORCING STEEL TO BE SPILT AND PLACED IN ACCORDANCE WITH ACI CODE.
  - All splices to be 36 bar diameters.
  - PROVIDE 25' lead lead of L 3 1/2" x 1/2" x 5/16" to be used in the adjacent Engineer's direction.
  - MASSWORK TO CONFORM TO ACI 308 Hollow Core, Grade II, normal weight, concrete shall use conforming to ASTM 82, consisting of precast reinforced concrete panels with cross rods welded together at intervals not exceeding 16" o.c. and wall, formed from 11" concrete rods of #4 bars and 3" girth rods of other wall joints. Provide in bed joints of all Masonry Walls at every 16" in Wall Height.
  - MORTAR TO BE Type S or Type M below grade and Type N elsewhere.
  - PROVIDE TEMPORARY BRACING during masonry erection. Maintain in place until Bracing Structure provides permanent bracing.
  - ALL MASONRY CONTROL JOINTS DO NOT CONTINUE HORIZONTAL JOINT REINFORCEMENT CROSS CONTROL JOINTS. In Exterior Walls provide vertical open joint at 24 feet on center maximum. In Interior Walls provide vertical open joint at 30 feet on center maximum.
  - ALL REINFORCING STEEL TO BE DETAILERED AND REINFORCED IN ACCORDANCE WITH THE AISC Detailing Manual.
  - ALL REINFORCING STEEL TO BE WELDED AND CONFORMING TO THE AISC Detailing Manual.
  - 3/4" CONCRETE ELECTRICAL PHYSICAL & APPROPRIATE DISTANCE FOR ALL OPENINGS AND INSERTS AND SHOW ON THE STRUCTURAL DRAWINGS. All opening sizes and locations to be verified with mechanical and electrical contractors.



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