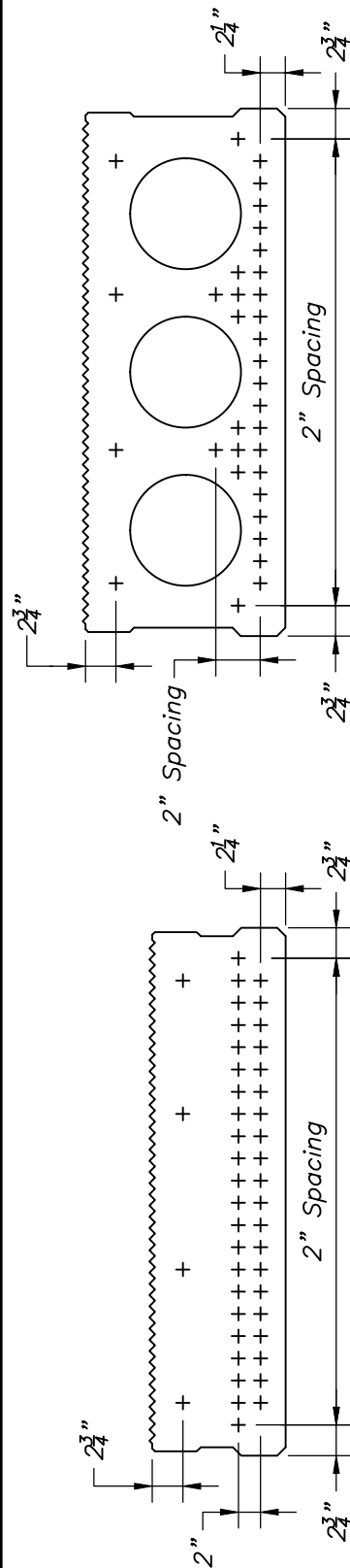
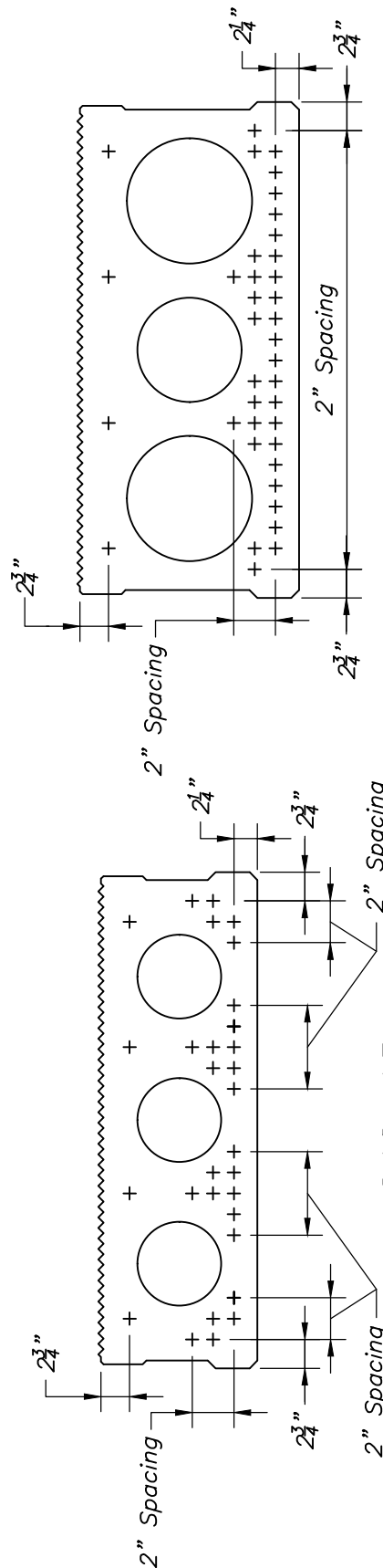
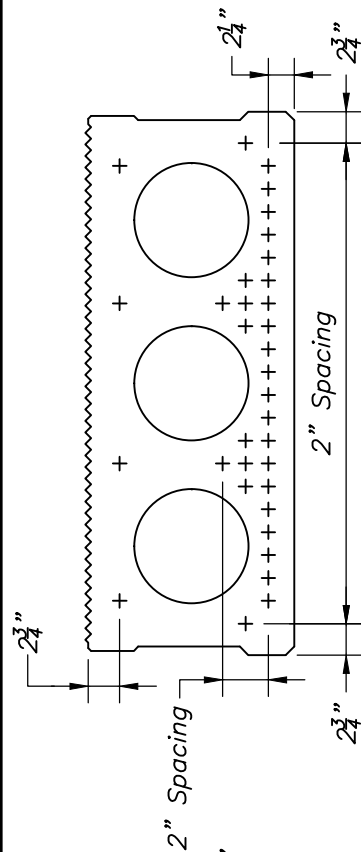




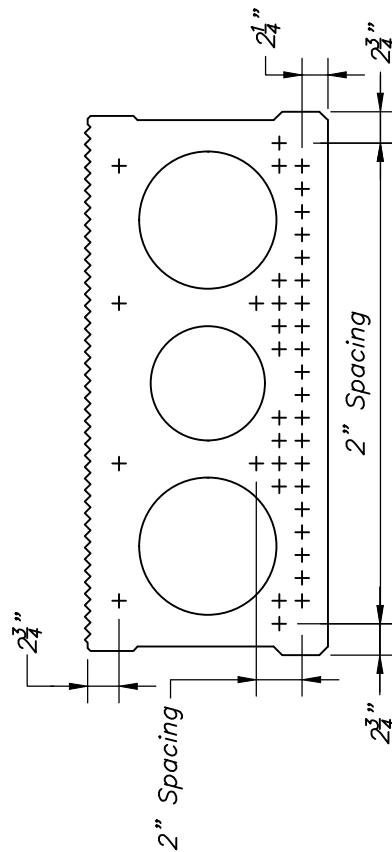
S48-12



S48-15



S48-18



S48-21

STRAND LOCATION

NOT TO SCALE

NOTES:

1. The standard strand pattern shown above depicts the maximum number of strands possible that can be located in a given beam while still meeting applicable fabrication clearances. For most beam designs, strands shall be placed in as many locations within the pattern as required. If a particular beam design requires the placement of strands outside this pattern, the Designer shall be responsible for verifying the beam's constructibility and its conformance to the AASHTO LRFD requirements.
2. + Denotes straight strands.
3. ⊕ Denotes debonded strands (none shown above). No more than 25% of the total number of strands and no more than 40% of the strands in each row shall be debonded. In addition, no more than 40% of the debonded strands, or four (4) strands, whichever is greater, shall have the debonding terminated at any one section. The spacing between debonded strands in a layer shall be 4" minimum. Exterior strands in each layer shall be fully bonded. In general, the length of debonded strand from each end of the beam should be limited to approximately 15% of the span length.
4. The Designer shall verify that the strands will not interfere with the transverse tie and the chuck hardware.
5. If required by design, the top row of strands may consist of a maximum of 4 fully stressed strands. Otherwise, use a minimum of 2 strands pretensioned to 2 Kips each.