**DECK PANEL SUPPORT**

The contractor shall provide the deck panel support system shown or he may submit a deck panel support system of his own design to the engineer for approval.

**POLYSTYRENE SUPPORT SYSTEM**

1. All polystyrene shall be Dow Styrofoam or equivalent.
2. The polystyrene support system shall consist of one layer with a minimum width of 38mm and a maximum width of 610mm. The polystyrene shall have slots 13mm wide and 38mm deep located at 38mm centers staggered along the top and bottom.
3. The polystyrene may be cut and placed on edge as necessary to match the required polystyrene profile along the girder.
4. Adhesive, as approved by the engineer, shall be applied to the top of the girder in a continuous line and be sufficient enough to prevent the polystyrene from slipping out and to prevent gaps from forming between the polystyrene and the girder. Prior to placement of the deck panels, the adhesive shall also be applied to the top of the polystyrene.
5. Concrete-filled buckets, stacks of deck panels, bundled reinforcing bars or other heavy concentrated loads shall not be permitted on the deck panel once the panel has been placed on the polystyrene support system.

**GENERAL NOTES**

1. The design compressive strength (f'c) for the concrete in prestressed panels shall be 416.7 MPa minimum at 28 days. The compressive strength of concrete at time of release of strands shall be 34.5 MPa minimum.
2. The prestressed strand shall have a minimum area of 530mm² and be a minimum area of 610mm².
3. For skewed spans, prestressed closure panels shall have a minimum width of 600mm on the side edge.
4. All prestressing strands shall extend 50mm beyond the panel edges.
5. Skew reinforcement of 610mm² of reinforcing steel per 50mm of panel surface shall be provided in the panel to ensure composite action between the precast panel and the cast-in-place concrete. The compressive strength of precast panel should be equal to or greater than 27.6 MPa minimum.
6. Skew reinforcement of 610mm² of reinforcing steel in the cast-in-place deck slab at the edge of the deck panel and to allow for proper concrete consolidation in the deck panel.
7. Skew longitudinal reinforcement of 200mm² is necessary to obtain a minimum clear distance of 100mm to the right or left of the edge of the deck panel, 100mm to the right or left of the core of the strand, and 100mm to the right or left of any embedded utility lines.
8. When casting the deck, place concrete first over the girder and continue casting concrete in continuous strips a minimum of three panels center-to-center. The concrete shall fully fill the area under the deck panel reinforcement, then place and embed the remaining deck concrete.