SPREAD BOX BEAMS - SPANS (X-X) AND (X-X)

DIMENSIONS

(1) Type "S" shall apply a bond breaker to this region including where used filler was applied.

(2) "Typ." (3) Optional

DESCRIPTION

Optional

8" 6-#6-U1 (Typ.)

Fabricator shall apply bond breaker to this region excluding beam end.

END VIEW

SIDE VIEW

BEARING PLATE

Note: This drawing is not to scale. Follow dimensions.

Detailed Sheet No. __ and __.

For Beam Camber Diagram, see Sheet No. __.

For location of coil inserts at slab drains, see Sheet No. __.

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General Notes:

Concrete for precast beams shall be Class A-2 with f'c = 3000 psi and f'c = 3000 psi.

Use strands, "Ø Grade 270 ksi.

Precast members shall be in accordance with Sec 1029.

Fabricator shall be responsible for fabrication and design of lifting devices.

Exterior and interior beams are the same except for size and dimensions.

Use "L" railings at exterior beam ends.

For Beam Camber Diagram, see Sheet No. __.

For location of coil slips at concrete bent slabs, see Sheets Nos. __ and __.

Note: This drawing is not to scale. Follow dimensions.

Sheets No. __ and __.

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STANDARD DRAWING GUIDANCE (do not show on plans):

1. Actual strand arrangement, bent up strands, and debonding (if any) is by design (top two strands are required). Add or remove symbols and instructions as required. Strands may be placed continuously across beam (eliminating 4" spacing), but dimension to drain hole in Part Plan shall be revised to 10".

2. Revise if #5 is required. Use 3'-10" for #5-S1 actual length and 7'-9" for #5-S2 actual length.

3. Splices shown only when necessary (girder length > 60'-2'). Use 2'-1" lap for #4 & 2'-7" lap for #5.
   - When lap is unnecessary:
     - Delete grouped elements.
     - Extend A bars to Beam.
     - Revise 10" to 3 A1 bars & 6 to 4 A2 bars.

4. Interior diaphragm, void holes & vent pipe shall be shown only when necessary (when structure may be submerged).
   - When not necessary:
     - Delete the two grouped elements.
     - Extend hidden lines to Beam.
     - In Part Plan revise remaining dimension to full length of void.

5. Revise minimum dimension if required by design.

6. By design. Typically 30.9 kips per 0.5" strand & 43.94 kips per 0.6" strand, rounded to nearest whole kip.