23 U.S.C. 409
NDDOT Reserves All Objections

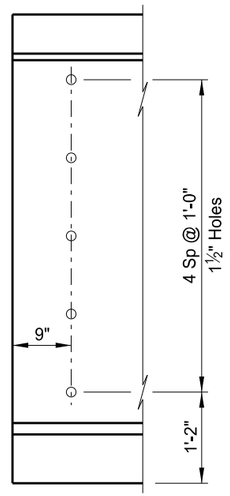
| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | BND-IM-1-094(192)164 | 170 | 12 |

## NOTES:

Select the final prestress force (remaining after all losses have been accounted for) and its corresponding center of gravity from those on a curve determined by the three values shown in the "Prestressing Data" table.

Provide holes and inserts in the beams at locations shown to accommodate the diaphragm bars.

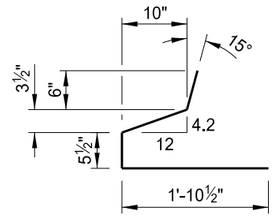
Minor changes to the shape of the beam and to reinforcing steel may be made to accommodate the forms of various contractors and their construction methods with the approval of the Engineer.




(Use holes for all beams at the Abutments & for the interior beams only at the Piers. Use inserts for the exterior beams at the Piers.)

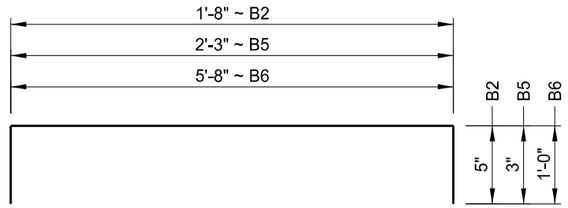
ELEVATION

BEAM END DETAIL

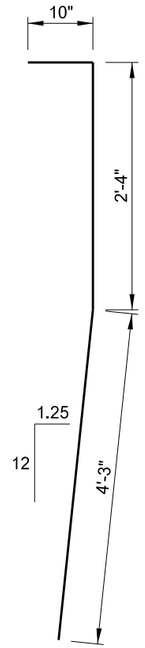


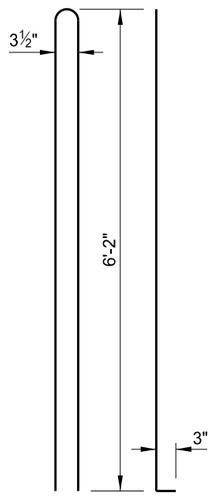

B1

| PRESTRESSING DATA | | | | | |
|---|---|---|---|---|---|
| C.G. | FINAL FORCE | DETENSION STRENGTH | ACCEPTANCE STRENGTH | WEIGHT (TONS) | BEAM LENGTH |
| 4.25" | 1372.2 k | 7000 psi (Min) | 7000 psi (Min) | 61.0 | 138'-0" |
| 4.50" | 1379.0 k | | | | |
| 4.75" | 1385.8 k | | | | |




B2, B5 & B6

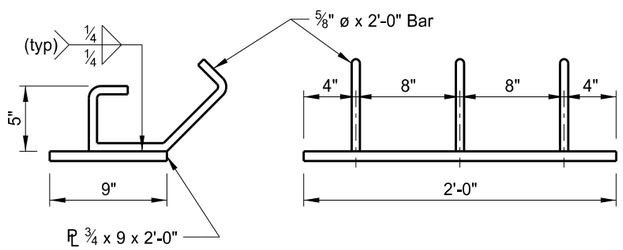



B3 B4

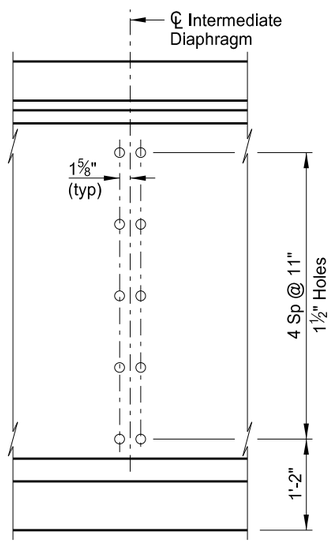
(DIMENSIONS SHOWN ARE OUT TO OUT)

BENT BAR DETAILS




(Use ASTM A36 steel, hot dipped galvanized, for the bearing plate. Include the costs in the bid price for the beam.)

BEARING DETAIL




(Use holes for interior beams only. Use inserts for the exterior beams. See Dwg 94-164.515-13 for locations.)

ELEVATION

INTERMEDIATE DIAPHRAGM DETAIL

This drawing is preliminary and not for construction or implementation purposes.

PRELIMINARY

GIBBS TOWNSHIP SEPARATION

PRE-TENSIONED 72" PRESTRESSED I-BEAM