

BEVELED 1 x 3

BEVELED I 2 × 3

NAILED TO HEADER

TRANSVERSE SLAB

CONSTRUCTION JOINT

LONGITUDINAL SLAB CONSTRUCTION JOINT

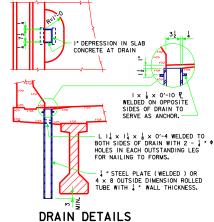
TOP OF SLAB

NAILED TO HEADER

"L" &-& ABUTMENT BEARING Li DRAINS SYMM ABOUT © ROADWAY 0.25L₁ 0.25L 0.25L € PIER

> 15°.30° AND 45° SKEW SITUATION SKETCH

(SHOWING DRAIN LOCATIONS)



USE FOR BARRIER RAIL ONLY. NOT REQUIRED FOR OPEN RAIL.

NOTE . DRAINS ARE TO BE GALVANIZED AFTER FABRICATION. SEE "SITUATION SKETCH" FOR LOCATION OF DRAINS.
WEIGHT OF DRAINS IS INCLUDED IN THE QUANTITY FOR "STRUCTURAL STEEL" WEIGHT IS BASED ON ROLLED TUBE.

- HEADER CUT TO FIT SHAPE OF CROWN AND DRILLED FOR

HEADER CUT TO FIT SHAPE OF

CROWN AND DRILLED FOR

TRANSVERSE REINFORCING.

LONGITUDINAL REINFORCING.

DATA FOR ONE DRAIN			
BEAM SIZE	A	В	С
WT. LBS.	85	96	106
LENGTH FT.	4'-43	4'-113	5′-5¾

GENERAL NOTES:

CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

ALL REINFORCING BARS ARE TO BE SECURELY WIRED IN PLACE AND ADEQUATELY SUPPORTED ON BAR CHAIRS BEFORE CONCRETE IS PLACED. IF THE EPOXY COATED BAR OPTION IS USED THEN ALL REINFORCING SHALL BE ADEQUATELY SUPPORTED ON EPOXY COATED BAR CHAIRS BEFORE CONCRETE IS POURED.

ALL PRESTRESSED CONCRETE BEAMS ARE TO BE SET VERTICAL.

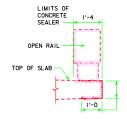
FORMS FOR THE SLAB AND RAILS ARE TO BE SUPPORTED BY THE PRESTRESSED CONCRETE BEAMS.

WEIGHT OF DRAINS IS INCLUDED IN THE STRUCTURAL STEEL QUANTITY.

THE PIER AND ABUTMENT DIAPHRAGM CONCRETE IS TO BE PLACED MONOLITHICALLY WITH THE FLOOR SLAB.

ALL REINFORCING STEEL IS TO BE GRADE 60.

COST OF ALL PREFORMED EXPANSION JOINT FILLER MATERIAL IS TO BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL CONCRETE (BRIDGE)".



CONCRETE SEALER LIMITS FOR OPEN RAILS

CONCRETE SEALER SHALL BE APPLIED TO BOTH SIDES OF BRIDGE SLAB ON THE TOP, EDGE OF SLAB AND UNDER THE SLAB. THE CONCRETE SEALER SHALL ALSO BE APPLIED TO THE OPEN RAIL ON THE TOP, TRAFFIC FACE SIDE, BOTTOM OF RAIL, AND ON ALL SIDES OF THE OPEN RAIL POSTS.

THE CONCRETE SEALER LIMITS ARE SHOWN IN THE DETAIL AND SHALL APPLY TO THE FULL LENGTH OF BRIDGE. CONCRETE SEALER SHALL BE APPLIED IN ACCORDANCE WITH STANDARD SPECIFICATION 2403.21D.



lowa Department of Transportation Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

SUPERSTRUCTURE DETAILS

H30-04-06