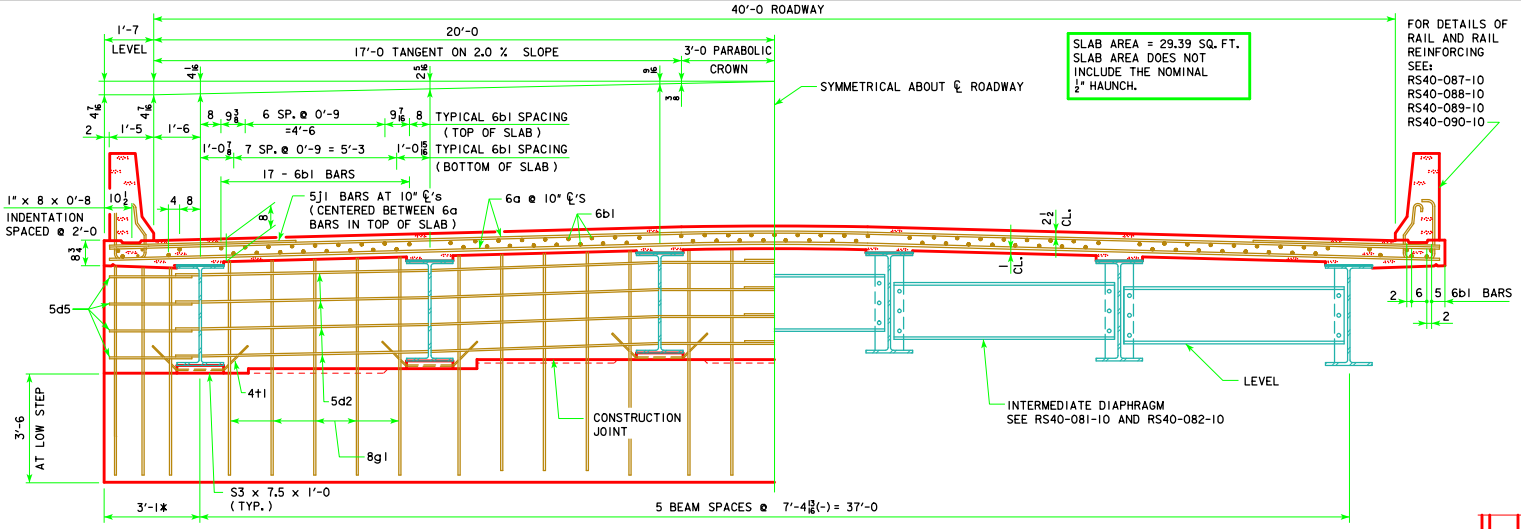
REVISED 10-11 - THE DRAIN EXTENSION BELOW THE BEAM WAS EXTENDED TO A 1'-0 DISTANCE. THE DATA FOR ONE DRAIN QUANTITIES WERE ADJUSTED FOR THE ADDITIONAL DRAIN LENGTH.



SLAB AREA = 29.39 SQ. FT.
SLAB AREA DOES NOT INCLUDE THE NOMINAL 1/2" HAUNCH.

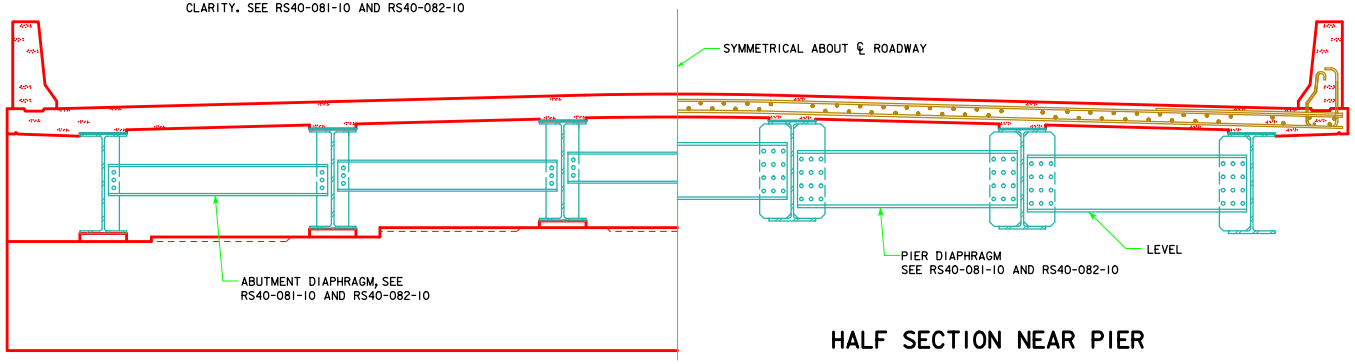
FOR DETAILS OF RAIL AND RAIL REINFORCING SEE:
RS40-087-10
RS40-088-10
RS40-089-10
RS40-090-10

*3'-2 FOR 340'-0 BRIDGE

HALF SECTION NEAR ABUTMENT

NOTE:
STEEL ABUTMENT DIAPHRAGMS OMITTED FOR CLARITY. SEE RS40-081-10 AND RS40-082-10

HALF SECTION NEAR INTERMEDIATE DIAPHRAGM



HALF SECTION NEAR ABUTMENT

NOTE:
REINFORCING OMITTED FOR CLARITY.
FOR BEAM CAMBER AND HAUNCH THICKENING DIAGRAM, SEE MISC. DETAILS WORK SHEET FOR APPROPRIATE LENGTH BRIDGE.

HALF SECTION NEAR PIER

DRAIN DETAIL NOTE:
DRAINS ARE TO BE GALVANIZED. FOR NUMBER OF DRAINS REQUIRED AND LOCATION SEE "SITUATION PLAN". WEIGHT OF DRAINS IS SHOWN FOR INFORMATION ONLY. THE COST OF DRAINS SHALL BE CONSIDERED INCIDENTAL TO STRUCTURAL STEEL. THE WEIGHT OF DRAINS IS NOT INCLUDED IN THE QUANTITIES OF STRUCTURAL STEEL SHOWN ON "SUPERSTRUCTURE QUANTITIES SHEET".

DATA FOR ONE DRAIN

BEAM SIZE	W30	W33	W36	W40	W44
WT. LBS.	82	87	92	96	105
LENGTH FT.	4'-3	4'-7	4'-9	5'-0	5'-5

SUPERSTRUCTURE NOTES:

THE FLOOR SLAB AS SHOWN INCLUDES 1/2" INTEGRAL WEARING SURFACE.

FORMS FOR THE SLAB AND BARRIER RAIL ARE TO BE SUPPORTED BY THE BEAMS.

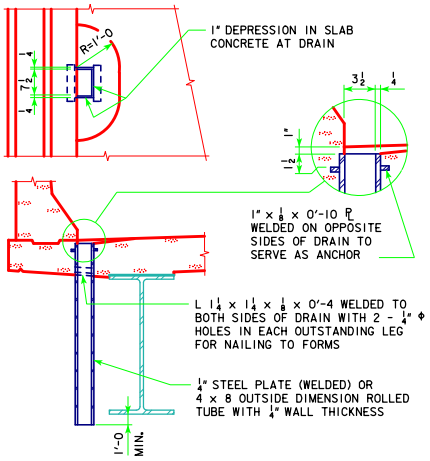
CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

TOP TRANSVERSE REINFORCING STEEL IS TO BE PARALLEL TO AND 2 1/2" CLEAR BELOW TOP OF SLAB. BOTTOM TRANSVERSE REINFORCING STEEL IS TO BE PARALLEL TO AND 1" CLEAR ABOVE BOTTOM OF SLAB. TOP AND BOTTOM REINFORCING STEEL IS TO BE SUPPORTED BY INDIVIDUAL EPOXY COATED METAL BAR CHAIRS SPACED AT NOT MORE THAN 3'-0 CENTERS LONGITUDINALLY AND TRANSVERSELY, OR BY CONTINUOUS ROWS OF EPOXY COATED METAL BAR HIGH CHAIRS OR SLAB BOLSTERS SPACED 4'-0 APART.

TRANSVERSE SLAB REINFORCING MAY BE SPLICED WITH ONE LAP LOCATED AS FOLLOWS:
TOP BARS - LAP MIDWAY BETWEEM BEAMS (MIN. LAP = 1'-10).
BOTTOM BARS - LAP OVER GIRDERS (MIN. LAP = 1'-10).

PAYMENT FOR REINFORCING BARS SHALL BE BASED ON NO SPLICES, AND NO ALLOWANCE SHALL BE MADE FOR THE ADDITIONAL LENGTH OF BAR REQUIRED FOR THE USE OF SPLICES.

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



10-11
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

JUNE, 2010

SYMMETRICAL CROSS SECTIONS 160'-0-340'-0 SPANS

RS40-017-10