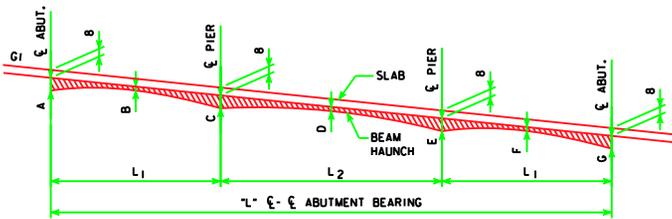


℄-℄ ABUT. BRG. "L"	A ABUT.	B	C PIER	D	E PIER	F	G ABUT.
138'-10	1	2	1 1/2	2	1 1/2	2	1
151'-4	2	3	1 1/2	3	1 1/2	3	2
163'-10	3	4	1 1/2	4	1 1/2	4	3
176'-4	4	5	1 1/2	5	1 1/2	5	4
188'-10	5	6	2	6	2	6	5
201'-4	6	7	1 1/2	7	1 1/2	7	6
213'-10	7	8	1 1/2	8	1 1/2	8	7
226'-4	8	9	1 1/2	9	1 1/2	9	8
243'-0	9	10	1 1/2	10	1 1/2	10	9

LENGTH OF VERTICAL CURVE REQUIRED = $(20,000 \times G1-G2)$
 $M.O. = (G1-G2 \times \text{LENGTH OF V.C.})$
 (G1-G2) IS THE ALGEBRAIC DIFFERENCE OF THE APPROACH GRADES EXPRESSED IN DECIMAL FORM. G1 NEED NOT HAVE THE SAME VALUE AS G2. MAXIMUM VALUE OF G1 OR G2 IS 5%. LENGTH OF CURVE AND M.O. ARE IN FEET.

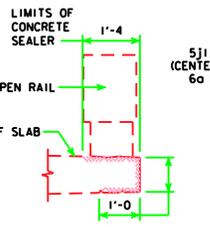
SLAB AND HAUNCH THICKNESS AT BEAMS FOR VERTICAL CURVE



℄-℄ ABUT. BRG. "L"	A ABUT.	B	C PIER	D	E PIER	F	G ABUT.
138'-10	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2
151'-4	2	3	1 1/2	3	1 1/2	3	2
163'-10	3	4	1 1/2	4	1 1/2	4	3
176'-4	4	5	1 1/2	5	1 1/2	5	4
188'-10	5	6	2 1/2	6	2 1/2	6	5
201'-4	6	7	1 1/2	7	1 1/2	7	6
213'-10	7	8	1 1/2	8	1 1/2	8	7
226'-4	8	9	2 1/2	9	2 1/2	9	8
243'-0	9	10	2 1/2	10	2 1/2	10	9

G1 MAY HAVE A + OR - SIGN. THE MINIMUM NUMERICAL VALUE OF THE GRADE IS 0.3% AND THE MAXIMUM VALUE IS 5%.

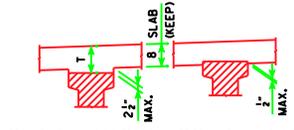
SLAB AND HAUNCH THICKNESS AT BEAMS FOR STRAIGHT GRADE



CONCRETE SEALER LIMITS FOR OPEN RAILS

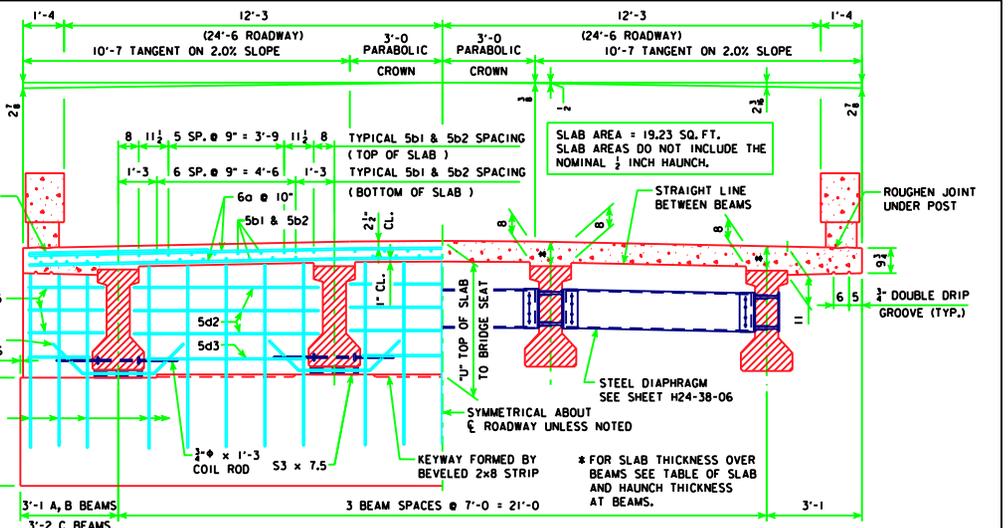
CONCRETE SEALER SHALL BE APPLIED TO BOTH SIDES OF BRIDGE SLAB ON THE TOP EDGE OF SLAB AND UNDER SLAB FOR FULL LENGTH OF BRIDGE TO LIMITS SHOWN IN DETAIL. SEALER SHALL BE APPLIED IN ACCORDANCE WITH STANDARD SPECIFICATION 2403.21D.

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 METAL BAR CHAIRS SPACED AT NOT MORE THAN 3'-0" CENTERS LONGITUDINALLY AND TRANSVERSELY, OR BY CONTINUOUS ROWS OF METAL HIGH CHAIRS OR SLAB BOLSTERS SPACED 4'-0" APART.



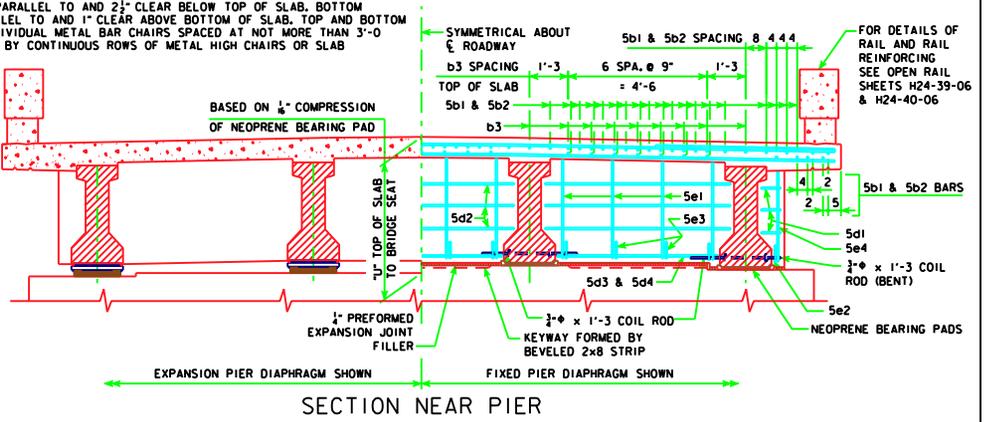
SLAB THICKNESS DETAILS

NOTE: THE SLAB THICKNESS (T) AT THE BEAMS, (H" SLAB PLUS HAUNCH) IS BASED ON THE ANTICIPATED BEAM CAMBER REMAINING AFTER PLACING THE SLAB, BUT IS NOT GUARANTEED FOR CONSTRUCTION. IF BEAM IS UNDER CAMBERED INCREASE THE HAUNCH THICKNESS OVER THE BEAM AT THE MIDPOINT OF THE SPANS (POINTS B, D AND F). IF THE BEAM IS OVER CAMBERED DECREASE THE HAUNCH THICKNESS OVER THE BEAM AT THE MIDPOINT OF THE SPANS (POINTS B, D AND F) TO A MAXIMUM OF 3" EMBEDMENT IN THE SLAB. IF MORE THAN 3" EMBEDMENT IS REQUIRED OR IF THE HAUNCH EXCEEDS 2 1/2" THE GRADE LINE IS TO BE REVISED.



HALF SECTION NEAR ABUTMENT

HALF SECTION NEAR MID SPAN



SECTION NEAR PIER

LENGTH OF S3 x 7.5 (ABUTMENT BEAM SEAT)	
BEAM BOTTOM FLANGE WIDTH	LENGTH OF S3 x 7.5
1'-5	1'-3 1/2
1'-8	1'-6 1/2

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

APPROVED BY BRIDGE ENGINEER

APPROVED BY BRIDGE ENGINEER

SUPERSTRUCTURE DETAILS

H24-03-06