

LIFTING POINT DETAIL

LIFTING POINT POCKET

WING WALL DETAIL

CONSTRUCTION

- ALL CONSTRUCTION WORK SHALL CONFORM TO THE CURRENT SPECIFICATIONS FOR BRIDGE CONSTRUCTION (BCS) .
- WELDING SHALL CONFORM TO SPECIFICATION SECTION 13.4.1 "FIELD WELDING OF STRUCTURAL MEMBERS".
- PILES SHALL BE DRIVEN TO THE TIP ELEVATIONS SHOWN ON THE DRAWINGS, OR LOWER, TO ACHIEVE AT LEAST THE SPECIFIED MINIMUM BEARING CAPACITY. THE BEARING CAPACITIES SHALL BE ESTIMATED USING THE BEARING FORMULAS PRESENTED IN THE CURRENT SPECIFICATIONS FOR BRIDGE CONSTRUCTION.
- AFTER PILE DRIVING OPERATIONS HAVE STARTED, THE CONSULTANT MAY REVISE THE REQUIRED PILE TIP ELEVATIONS, PROVIDED THAT THE MINIMUM SPECIFIED BEARING CAPACITY AND SPECIFIED MINIMUM PILE PENETRATION HAVE BEEN ACHIEVED.

MINIMUM BEARING CAPACITY – SERVICE LOADS						
ABUT PILES (kN)	SPANS	PIER PILES (kN)				
		14m	12m	10m	8m	6m
340	6m	710	660	610	550	510
390	8m	750	700	650	590	
430	10m	790	740	690		
480	12m	830	770			
530	14m	870				

MINIMUM BEARING CAPACITY – ULTIMATE LOADS						
ABUT PILES (kN)	SPANS	PIER PILES (kN)				
		14m	12m	10m	8m	6m
530	6m	1030	960	890	790	750
600	8m	1080	1010	940	850	
660	10m	1130	1060	990		
720	12m	1180	1100			
790	14m	1240				

- PIER PILES SHALL PENETRATE AT LEAST 5m BELOW STREAMBED
- PILE TOLERANCES AS PER SPECIFICATIONS FOR BRIDGE CONSTRUCTION EXCEPT THAT BOTH PIER AND ABUTMENT PILES SHALL NOT BE OUT OF SPECIFIED POSITION BY MORE THAN 25mm.
- ALL REINFORCEMENT SHALL HAVE A CLEAR CONCRETE COVER OF 55mm UNLESS NOTED OTHERWISE.
- PILE CONCRETE SHALL BE CURED AT LEAST 12 HOURS BEFORE PLACING PIER CAP BLOCKOUT CONCRETE.
- ALL CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.
- TREATED TIMBER (TT) SHALL BE HANDLED TO AVOID BRUISING, BREAKING OR PENETRATION OF OUTER FIBRES. LIFTING TOOLS SHALL BE APPLIED ONLY ON ENDS OF TT PIECES. ALL CUTS AND BRUISES SHALL BE CAREFULLY TRIMMED AND REPAIRED IN ACCORDANCE WITH SECTION 23 OF BCS AND TO THE SATISFACTION OF THE CONSULTANT.

GIRDER INSTALLATION

- REFER TO TYPE SL-510 GIRDER DRAWINGS (LATEST REVISION) AS APPLICABLE:

6 m S-1723 TO S-1724	10 m S-1726 TO S-1727
8 m S-1725 TO S-1726	12 m S-1729 TO S-1730
	14 m S-1731 TO S-1732
- GIRDERS SHALL BE CONNECTED TOGETHER WITH 19mm Ø A325 BOLT ASSEMBLIES, C/W DROP-IN WASHERS TO FILL GAP BETWEEN GIRDERS, TORQUED TO 400 Nm. GIRDERS SHALL NOT TOUCH EXCEPT THROUGH DROP-IN WASHERS. BOLTS AND WASHERS TO BE HOT-DIPPED GALVANIZED.
- CONNECTOR AND LIFTING HOOK POCKETS SHALL BE FILLED WITH A DEPARTMENT APPROVED CONCRETE PATCHING MATERIAL.

HOT DIP GALVANIZE AFTER FABRICATION

DROP-IN WASHER

• FOR SL-510 GIRDER TO GIRDER CONNECTIONS
IN 2mm AND 4mm THICKNESSES USE
2-19mm DIAMETER A325 BOLTS (GALVANIZED)

1:5

 BRIDGE PLAQUE
S-1765-08 1:5

U BRACING DETAILS
S-1765-08 1:15

HAZARD MARKER DETAILS
 S-1765-08 (SHOWN AS FOR PL-1 THRIE BEAM BRIDGERAIL) 1:25
 2 REQ'D - RIGHT HAND } REQUIRED IF SPECIFIED IN SITE
 2 REQ'D - LEFT HAND } SPECIFIC GENERAL LAYOUT

(D) SECTION

SECTION
S-1765-08 (FOR UPSTREAM 1:10
HP 310x110 PILE ONLY)