



**GENERAL NOTES**

- ALL DRAWING REFERENCES REFER TO CURRENT DRAWINGS.
- ALL DIMENSIONS ARE GIVEN IN mm UNLESS NOTED OTHERWISE.
- ROADWAY ELEVATIONS SPECIFIED ELSEWHERE ARE GIVEN TO TOP OF THEORETICAL CROWN ON CENTRELINE ROADWAY.
- DESIGN
  - DESIGN SPECIFICATION: CAN/CSA-S6-88
  - DESIGN LIVE LOAD: CS750
- THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED IN USING THIS PLAN:
  - ICE LOADING - USUAL VALUE FOR SMALL STREAMS - (0.3 m THICK ICE, SITUATION a)
  - HEIGHT OF DECK ABOVE STREAMBED - 6 m
  - TOP OF FILL TO BACKWALL - 2.5 m
  - SKEW - 45°

**CONSTRUCTION**

- ALL REQUIREMENTS OF THE CURRENT BRIDGE BRANCH SPECIFICATION FOR THE SUPPLY OF STRUCTURAL STEEL FOR BRIDGES (B-187M) SHALL BE MET.
- ALL CONSTRUCTION WORK SHALL CONFORM TO THE CURRENT BRIDGE CONSTRUCTION SPECIFICATION B-358.
- ALL WELDING SHALL CONFORM TO THE AWS SPECIFICATION D1.1 - 86.
- WHEN THE AIR TEMPERATURE IS BELOW 0°C, ALL MATERIAL TO BE WELDED SHALL BE PREHEATED TO 95°C AND SHALL BE SHELTERED FROM WIND BY A SUITABLE HOARDING APPROVED BY THE ENGINEER.
- THE STEEL SUBSTRUCTURE SHALL BE BLAST CLEANED AND PAINTED WITH TWO PRIME COATS AND TWO FINISH COATS IN THE FIELD. CLEANING SHALL BE APPROVED BY THE ENGINEER PRIOR TO PAINTING. PAINTING SHALL CONFORM TO THE CURRENT BRIDGE BRANCH SPECIFICATION B-326 "PAINTING OF METAL STRUCTURES".
- 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 SHALL RECEIVE 2 APPLICATIONS OF CREOSOTE FOLLOWED BY A THOROUGH COVERING WITH HOT ROOFING PITCH.
- WHEN PILE TIP ELEVATIONS, AS DETERMINED ON THE BASIS OF SOIL ANALYSIS, ARE SPECIFIED, PILES SHALL BE DRIVEN TO THOSE ELEVATIONS EXCEPT THAT, WITH THE APPROVAL OF THE ENGINEER, PILES MAY BE STOPPED AT HIGHER ELEVATIONS PROVIDED THAT SPECIFIED BEARING VALUES HAVE BEEN OBTAINED.
  - IF PILE TIP ELEVATIONS OR BEARING VALUES ARE NOT SPECIFIED ELSEWHERE, PILES SHALL BE DRIVEN TO AT LEAST THE FOLLOWING BEARING VALUES AS DETERMINED ON THE BASIS OF A PILE DRIVING FORMULA:

ABUT PILES (kN)	PIER PILES (kN)				
	SPANS	12m	10m	8m	6m
210	6m	370	340	310	260
240	8m	410	380	340	
280	10m	450	410		
320	12m	480			

- NOTWITHSTANDING THE ABOVE, PIER PILES SHALL PENETRATE AT LEAST 5 m BELOW STREAMBED IN IRRIGATION CANALS OR OTHER LOCATIONS WHERE FROST HEAVING CAN OCCUR, AND 3 m BELOW STREAMBED IN STREAMS.

**GIRDER & ERECTION DETAILS**

- TYPE SC-510 GIRDER DWGS:
  - 6 m S-1535 TO S-1537 || 10 m S-1541 TO S-1543 || S-1547
  - 8 m S-1538 TO S-1540 || 12 m S-1544 TO S-1546
- GIRDERS SHALL BE CONNECTED TOGETHER WITH 20Ø 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.
- CONNECTOR AND LIFTING HOOK POCKETS SHALL BE FILLED WITH A SAND-CEMENT GROUT, OR WITH HOT-POURED C190 ASPHALT IN FREEZING WEATHER.
- WORK DWGS S-1603 AND S-1604 TOGETHER WITH A SITE SPECIFIC GENERAL LAYOUT OR A BRIDGE AUTHORIZATION.

**SUPERSEDED**

BY  
603-98  
12-01  
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APPROVED  EXECUTIVE DIRECTOR BRIDGE ENGINEERING				<b>Albera</b> TRANSPORTATION AND UTILITIES BRIDGE ENGINEERING BRANCH			
93-02-03 REVISION 1 REMOVED 92-10-01 DETAIL "U" ADDED 8 ABUT PILE SIZE				LEA LEA DATE Dec 3, 1990			
DESIGNED	DRAWN	DATE	CHECKED	DATE	STREAM		
KST	VGB	90-11-07					
<b>SC PRECAST GIRDER BRIDGES WITH STEEL SUBSTRUCTURES</b>				<b>SHEET 1</b>			
LOCATION	HIGHWAY	FILE	SHEET	DRAWING			
			1 of 2	S-1603			

