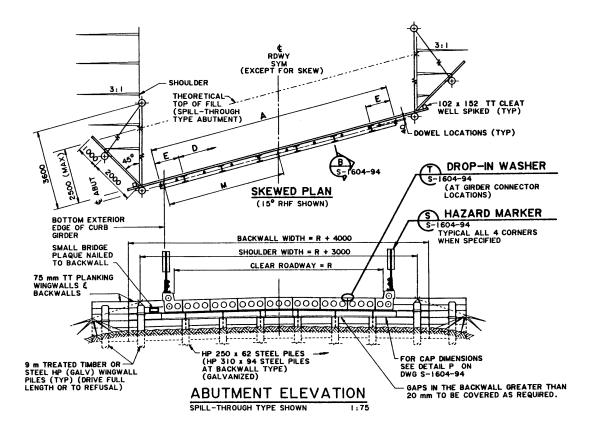


BRIDGE ELEVATION

BACKWALL TYPE ABUTMENTS ARE TO BE USED ONLY AT SINGLE SPAN, O'SKEW BRIDGE SITES



GENERAL NOTES

- . ALL DRAWING REFERENCES REFER TO CURRENT DRAWINGS.
- . ALL DIMENSIONS ARE GIVEN IN MILLIMETRES 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
- ASSUMED SOIL PARAMETERS
 UNIT WEIGHT OF SOIL = 20 kN/m³
 FACTORED kg = 0.65
 FACTORED kp = 1.80
- THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED IN USING THIS PLAN:

 ICE LOADING USUAL VALUE FOR SMALL STREAMS

 (0.3 m THICK ICE, STUATION a)

 HEIGHT OF DECK ABOVE STREAMBED 6 m

 SKEW 45° MAX FOR SPILL-THROUGH TYPE ABUTMENTS

 0° MAX FOR BACKWALL TYPE ABUTMENTS

 MAXIMUM ABUTMENT HEIGHT

 BACKWALL TYPE = 2.5 m

 SPILL THROUGH TYPE = 0.78 m

- ALL REQUIREMENTS OF THE CURRENT SPECIFICATIONS

 FOR BRIDGE CONSTRUCTION SHALL BE MET.
 - GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATIONS A123 OR A153 AS APPLICABLE.
- STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 M-300W.
- . ALL WELDING SHALL CONFORM TO CURRENT AWS SPECIFICATION DI.5.
- WHEN THE AIR TEMPERATURE IS BELOW O°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.
- SCABS, PIER AND ABUTMENT CAPS SHALL BE BLAST CLEANED AND PAINTED.

 SCABS, PIER AND ABUTMENT CAPS SHALL BE BLAST CLEANED AND PAINTED.

 CLEANING SHALL BE APPROVED BY THE ENGINEER PRIOR TO PAINTING.

 PAINTING SHALL CONFORM TO THE REQUIREMENTS OF THE

 ENGINEER.

- 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 AND BEARING VALUES ARE SPECIFIED, PILES SHALL
 BE DRIVEN TO THOSE ELEVATIONS EXCEPT THAT WHEN REQUIRED BY THE
 ENGINEER, PILES SHALL BE DRIVEN TO THE SPECIFIED BEARING VALUES BASED
 ON A BEARING VALUE FORMULA. WHEN PILE TIP ELEVATIONS OR BEARING VALUES
 ARE NOT SPECIFIED ELSEWHERE, PILES SHALL BE DRIVEN TO THE FOLLOWING
 BEARING VALUES BASED ON A BEARING VALUE FORMULA:

ABUT PILES (kN)		PIER PILES (KN)			
	SPANS	I 2m	I Om	8m	6m
210	6m	370	340	310	260
240	8m	410	380	340	
280	I Om	450	410		
320	12m	480			

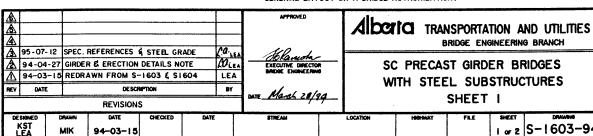
NOTWITHSTANDING THE ABOVE, PIER PILES SHALL PENETRATE AT LEAST 5 M BELOW STREAMBED IN IRRIGATION CANALS OR OTHER LOCATIONS WHERE FROST HEAVING CAN OCCUR, AND 3 M BELOW STREAMBED IN STREAMS. BACKWALL TYPE ABUTMENT PILES SHALL PENETRATE AT LEAST 5 M BELOW STREAMBED.

GIRDER & ERECTION DETAILS

- TYPE SC-510 GIRDER DWGS:
 6 m S-1535 TO S-1537
 8 m S-1538 TO S-1540
 10 m S-1541 TO S-1543
 12 m S-1544 TO S-1546
- GIRDERS SHALL BE CONNECTED TOGETHER WITH 20 mm# A325 BOLTS (GALV), C/W DROP-IN WASHERS TO FILL GAP BETWEEN GIRDERS, TORQUED TO 400 N-m. GIRDERS SHALL NOT TOUCH EXCEPT THROUGH DROP-IN WASHERS.

WORK DWGS S-1603-94 AND S-1604-94 TOGETHER WITH A SITE SPECIFIC
 GENERAL LAYOUT OR A BRIDGE AUTHORIZATION.

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1 of 2 S-1603-94