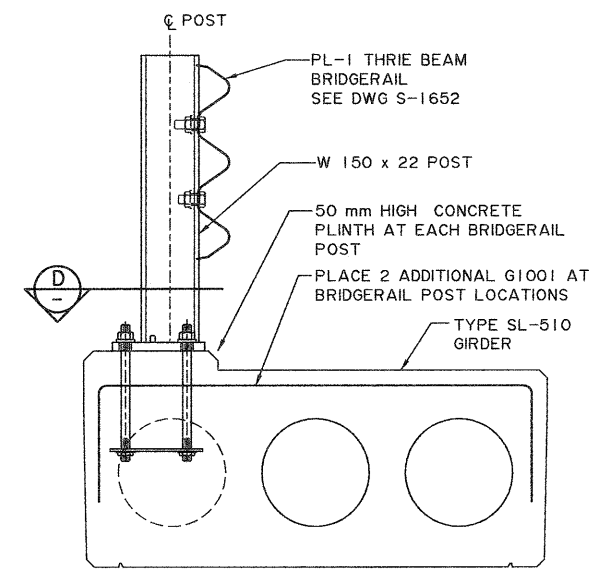
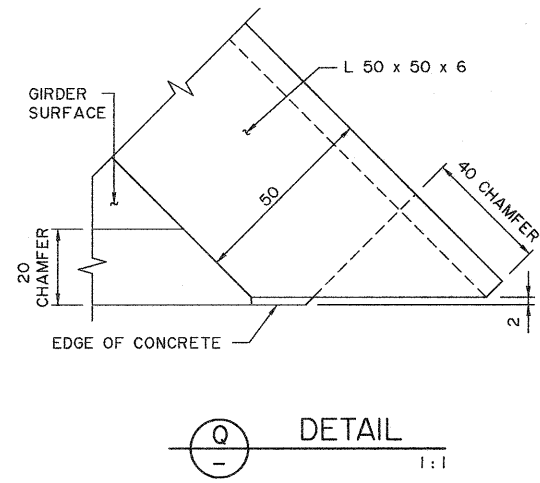
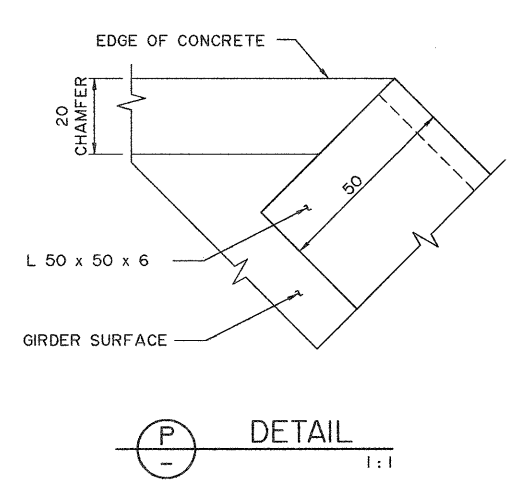
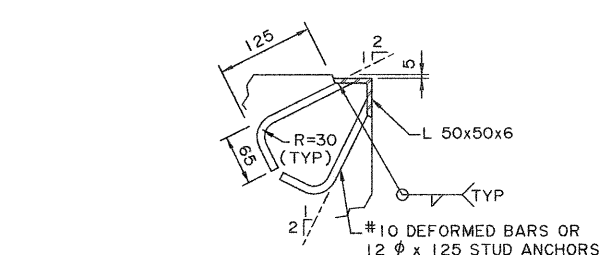


NOTE: 40 VERTICAL CHAMFER ON ACUTE CORNERS OF GIRDERS WITH A SKEW OF 30° OR GREATER.

GIRDER SKEWED END PLAN DETAIL
1:15

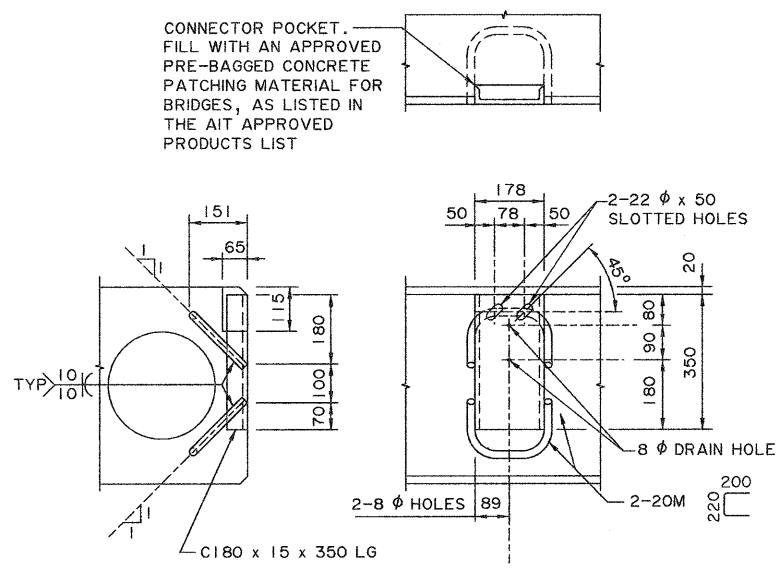


TYPICAL EXTERIOR GIRDER
1:10



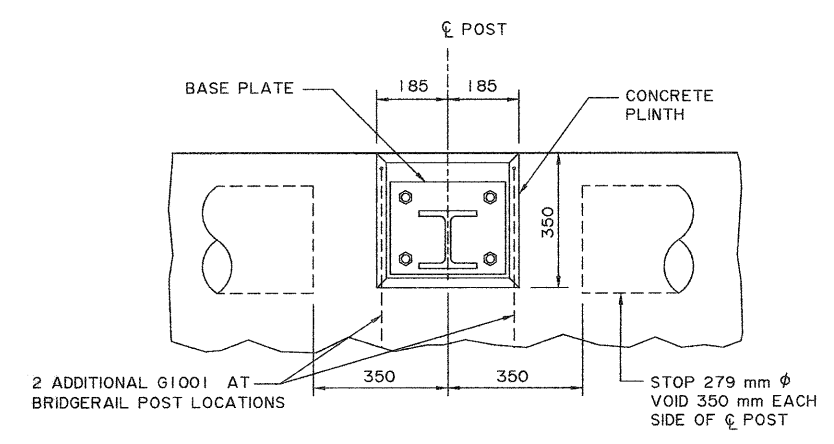
NOTE: ASSEMBLY TO BE HOT DIP GALVANIZED AFTER FABRICATION.

C BUFFER ANGLE
1:5

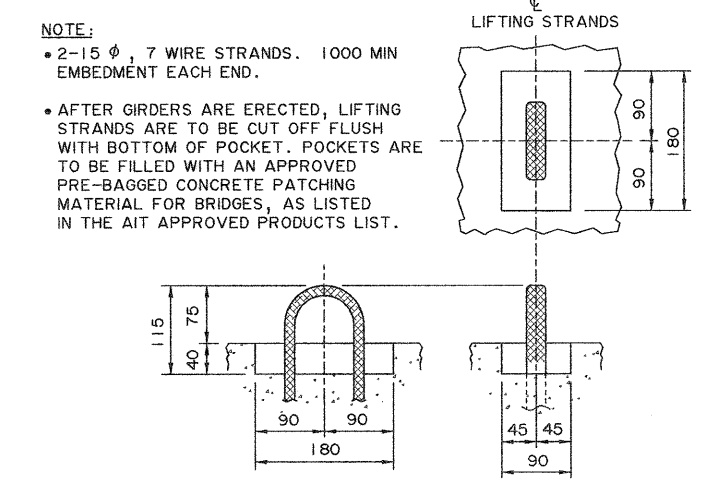


NOTE: ASSEMBLY TO BE HOT DIP GALVANIZED AFTER FABRICATION.

S GIRDER CONNECTIONS
1:10

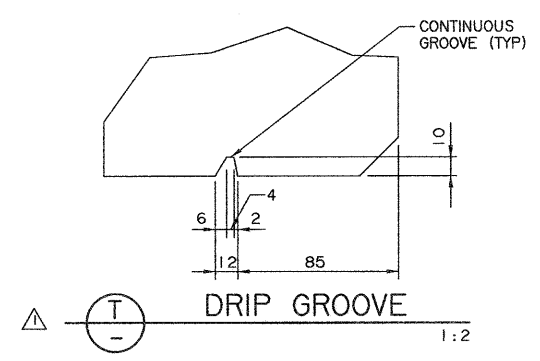


D AT POSTS
1:20

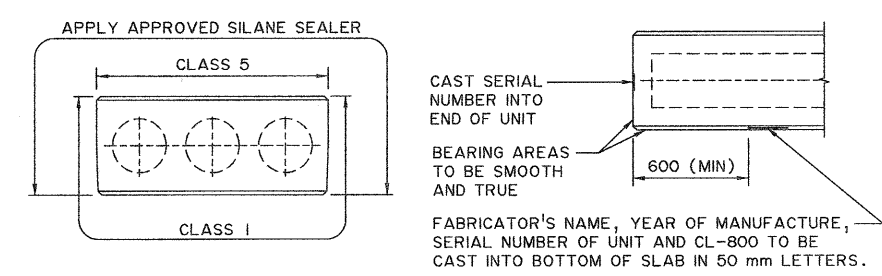


NOTE:
• 2-15 Ø, 7 WIRE STRANDS. 1000 MIN EMBEDMENT EACH END.
• AFTER GIRDERS ARE ERECTED, LIFTING STRANDS ARE TO BE CUT OFF FLUSH WITH BOTTOM OF POCKET. POCKETS ARE TO BE FILLED WITH AN APPROVED PRE-BAGGED CONCRETE PATCHING MATERIAL FOR BRIDGES, AS LISTED IN THE AIT APPROVED PRODUCTS LIST.

R LIFTING HOOK POCKET
1:5



T DRIP GROOVE
1:2



GIRDER FINISHES
(BY FABRICATOR)
1:20

GENERAL NOTES

- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
- DESIGN**
- CAN/CSA-S6-06 SPECIFICATIONS EXCEPT AS MODIFIED BELOW:
 - ALLOWABLE TENSION IN BOTTOM FIBRE AT MIDSPAN = 2.0 MPa EXCEPT WHERE NOTED ON GIRDER SPECIFIC DRAWINGS.
 - NO TENSION ALLOWED IN DECK SURFACE.
- **LOADING:**
 - LIVE LOAD - CAN/CSA-S6-06: CL-800
 - ONE WHEEL LINE PER GIRDER
 - DEAD LOAD - GIRDER = 1.16 t/m
 - ALLOWANCE FOR FUTURE WEARING SURFACE (90 mm ACP AND WATERPROOFING) = 0.26 t/m

MATERIALS

- CONCRETE SHALL BE STANDARD WEIGHT, CONTAINING 10% SILICA FUME AND NOT LESS THAN 5% AIR ENTRAINMENT.
- 28 DAY CONCRETE STRENGTH:
 - 50 MPa FOR ALL SPANS EXCEPT THE 14.0 m SPAN.
 - 70 MPa FOR THE 14.0 m SPAN ONLY.
- CONCRETE RELEASE STRENGTH:
 - 35 MPa FOR ALL SPANS EXCEPT THE 14.0 m SPAN.
 - 40 MPa FOR THE 14.0 m SPAN ONLY.
- PRESTRESSING STEEL SHALL BE 15 Ø, 7 WIRE LOW RELAXATION STRAND (fpu = 1860 MPa).
- REINFORCING STEEL SHALL BE GRADE 400W. TACK WELDING OF REINFORCING SHALL NOT BE ALLOWED.

FABRICATION

- GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 7 - PRECAST CONCRETE UNITS.
- ALL GALVANIZING SHALL CONFORM TO CSA SPECIFICATION G164.
- BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING IS TO BE MAINTAINED.
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.

ERECTION

- LIFTING FORCE SHALL BE VERTICAL AT ALL TIMES.
- GIRDERS SHALL BE MAINTAINED LEVEL AT ALL TIMES.
- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.

Plotted: STANDARD SHEET S-1749-07-REV1.DGN

 BPTec - DNW Engineering Ltd. Suite 200, 4220-98 St. Edm., AB T6E 6A4 P: (780) 436-9378 F: (780) 435-4843 www.bptec-dnw.com 556-46	PERMIT TO PRACTICE BPTec-DNW ENGINEERING LTD. Signature: Scott Donald Date: AUG 1, 2007 PERMIT NUMBER: PO132 The Association of Professional Engineers Geologists and Geophysicists of Alberta	DESIGNER ORIGINAL STAMPED AND SIGNED BY: Stuart Smith ON: AUG 1, 2007	CHECKER ORIGINAL STAMPED AND SIGNED BY: Scott Donald ON: AUG 1, 2007	RECOMMENDED DIRECTOR BRIDGE ENGINEERING ORIGINAL SIGNED BY TOM LOO	Alberta INFRASTRUCTURE AND TRANSPORTATION PRESTRESSED CONCRETE TYPE SL-510 GIRDER STANDARD DETAILS
	APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH ORIGINAL SIGNED BY ALLAN KWAN	DATE: 2008-04-22 REV: 01 DATE: 2008-04-22 REVISIONS: DRIP GROOVE DETAIL	DATE: SEPT 17, 2007 SHEET: 3 of 3 DRAWING: S-1749-07		