

1500

Engineering (2001) Ltd.

(MIN)

PERMIT TO PRACTICE

MOST ENGINEÊRING (2001) LTD

PERMIT NUMBER: P 8859 The Association of Professional Engineers Geologists and Geophysicists of Alberta

Aug 15, 12008

DESIGNER

POLANIC

CHECKER

STATE SADA

DATE OBIS TOOK REV DATE

1500

(MIN)

BRIDGE ELEVATION

(TREATED TIMBER SHOWN

SPCS SIMILAR)

MINIMUM PILE BEARING CAPACITY END SPAN 10 PILE BEARING (kN) 340 380 420 460 300 CAPACITY

BACKFILL

- THE CONTRACTOR SHALL BACKFILL ABUTMENTS WITH CARE AND IN ACCORDANCE WITH SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN OVERALL BACKWALL STABILITY, LIMIT DEFLECTIONS DURING BACKFILLING AND ENSURE PROPER GIRDER INSTALLATION
- IF IT IS NECESSARY TO PARTIALLY BACKFILL PRIOR TO ANCHOR PILE SYSTEM INSTALLATION, THE CONTRACTOR SHALL PROVIDE A RESTRAINT SYSTEM AND
- THREADED RODS SLACK SHALL BE TAKEN OUT PRIOR TO BACKFILLING.

GIRDER INSTALLATION

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

6 m S-1723 AND S-1724 12 m S-1729 AND S-1730 8 m S-1725 AND S-1726 14 m S-1731 AND S-1732 10 m S-1727 AND S-1728 ALL SPANS S-1749

- C/W DROP-IN WASHERS TO FILL THE 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

<u>MATERIALS</u>

- GIRDER DOWELS SHALL CONFORM TO THE REQUIREMENTS OF CSA G40.21M GRADE 300W AND HOT-DIPPED GALVANIZED AFTER FABRICATION.
- ALL STEEL PLATE AND SHAPES SHALL CONFORM TO THE REQUIREMENTS OF CSA G40.21M GRADE 350W.
- THREADED RODS SHALL BE EITHER WILLIAMS SUPER HIGH TENSILE 'V' THREADED ROD OR ACROW RICHMOND HIGH TENSILE CONTINUOUS THREADED ROD. THREADED RODS SHALL HAVE ROLLED THREADS AND A MINIMUM YIELD STRENGTH OF 620 MPa. RODS SHALL BE HOT-DIPPED GALVANIZED.
- PILE CAPS SHALL BE HOT-DIPPED GALVANIZED. GALVANIZING MAY BE OMITTED FROM PILE SURFACES LOCATED MORE THAN 1000 mm BELOW GROUNDLINE. ALL FIELD WELDS OF GALVANIZED MATERIAL SHALL BE METALIZED.
- GALVANIZING SHALL CONFORM TO THE CURRENT CSA STANDARD G164.
- ALL WELDING SHALL CONFORM TO THE CURRENT AWS SPECIFICATION DI.5.
- WELDING IN LOW TEMPERATURES SHALL BE DONE IN ACCORDANCE WITH SECTION 13.4.1 OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION
- GALVANIZED SURFACES DAMAGED BY FIELD WELDING SHALL BE THOROUGHLY CLEANED AND METALLIZED.
- TREATED TIMBER (TT) SHALL CONFORM TO SECTION 23 OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION.
- STRUCTURAL PLATE CORRUGATED STEEL (SPCS) MATERIAL SHALL CONFORM TO SECTION 18 OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION.
- GRANULAR BACKFILL SHALL BE PLACED TO A MINIMUM OF 95% PROCTOR DENSITY AND OTHERWISE CONFORM TO THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION.
- BEARING PADS SHALL CONSIST OF NEOPRENE 60 HARDNESS AND SHALL CONFORM TO SECTION 18 "BEARING DEVICES" DIVISION II OF AASHTO DESIGN STANDARD.

ADDITIONAL NOTES

RECOMMENDED

DIRECTOR BRIDGE ENGINEERING

100 100

APPROVED

EXECUTIVE DIRECTOR

Mention

REVISIONS

CHNICAL STANDARDS BRANCI

• PIER NOTE: FOR PIER DETAILS REFER TO CURRENT STANDARD DRAWINGS S-1753-08, S-1754-08, S-1755-08 AND S-1756-08. ALL NOTES ON S-1753-08 SHALL APPLY EXCEPT AS MODIFIED ON THIS DRAWING.

> • WORK DRAWINGS S-1793-08, S-1794-08, S-1795-08 AND S-1796-08 TOGETHER WITH SITE SPECIFIC GENERAL L'AYOUT

> > SL PRECAST GIRDER BRIDGES WITH HIGH BACKWALL STEEL ABUTMENTS - SHEET

Alberta Transportation

AT BAR CODE 2008-08-18 | 1 of 4 | S-1793-08