

CSP ARCH FORM - MAX. 3.0m SPAN

CORRUGATION PROFILE 125mmx25mm, 2.8mm WALL THICKNESS. SEAMS WELDED FOR 75mm FROM BOTH CUT EDGES AND FOR 150mm AT THE TOP OF THE ARCH. TREAT (PAINT) WELDED AREA WITH COLD ZINC.

CANADA AND

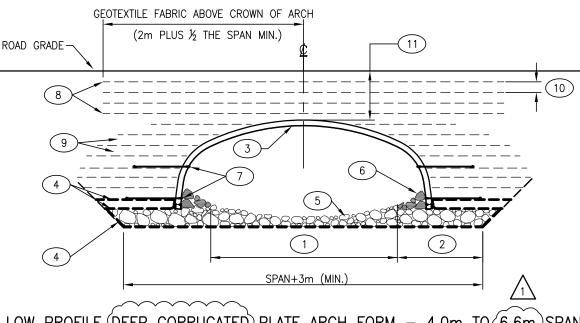
US PATENT

STREAM CHANNELS TYP. <1.5m WIDE DESIGN DISCHARGE TYP. <3.0m³/sec DESIGN WATER DEPTH TYP.<0.75m

RECONSTRUCTED STREAM CHANNEL INSTALLATIONS (TO REPLACE EXISTING CULVERT)

LEGEND

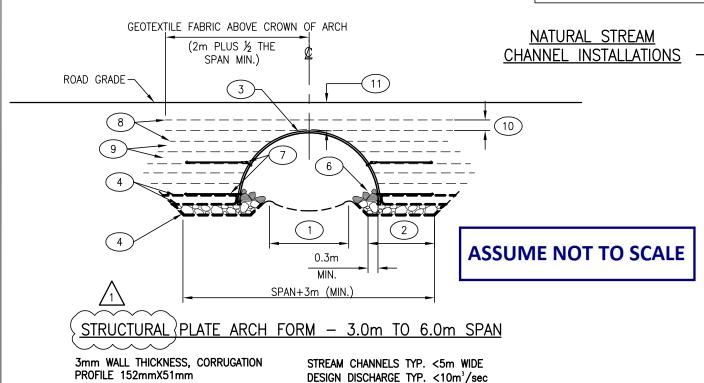
- 1)-RECONSTRUCTED OR UNDISTURBED STREAM CHANNEL WIDTH
- 2 PREPARED FOUNDATION, TYPICALLY ROCKFILL (MIN. 1.5m WIDTH)
 3 METAL ARCH FORM WITH CHANNEL OR ANGLE ALONG BOTTOM EDGES. SPAN TO BE A MINIMUM OF 20% MORE THAN THE NATURAL, REPRESENTATIVE STREAM CHANNEL WIDTH AS DETERMINED BY A SITE ASSESSMENT
- (4)-NON-WOVEN GEOTEXTILE AS REQUIRED 890N MIN. GRAB TENSILE STRENGTH (ASTM D4632), 580N MIN. PUNCTURE STRENGTH (ASTM
- 5 DESIGNED SUBSTRATE
- 6-RIPRAP SCOUR PROTECTION (INTERIOR OF METAL ARCH FORM)
- 7-DEADMAN ANCHORS
- 8 WOVEN GEOTEXTILE FABRIC 30kN/m (MIN.) WIDEWIDTH TENSILE STRENGTH (ASTM D4595), LENGTH OF FABRIC 2.2m MIN. BETWEEN BOTTOM OF FIRST ROW OF ANCHORS AND CROWN OF ARCH FORM
- 9 COMPACTED GRANULAR FILL 10 TYPICAL FABRIC SPACING 0.28m
- 11-MINIMUM GRS FILL COVER DEPTH IS 20% OF THE SPAN (NO LESS THAN 0.4m). MAXIMUM FILL DEPTH TO BE DETERMINED BY DESIGN ENGINEER CONSIDERING AXIAL COMPRESSION ALOADING, FOUNDATION CONDITIONS AND METAL WALL THICKNESS.



LOW PROFILE ÍDEEP CORRUGATED)PLATE ARCH FORM — 4.0m TO/6.6m)SPAN

MINIMUM 4.1mm WALL THICKNESS

STREAM CHANNELS TYP. <5.0m WIDE DESIGN DISCHARGE TYP. <12.0m³/sec DESIGN WATER DEPTH TYP.<1.0m



DESIGN WATER DEPTH TYP.<0.75m

BOTTOM ANCHOR DRAIN DETAIL - SEE STD-C-050-03

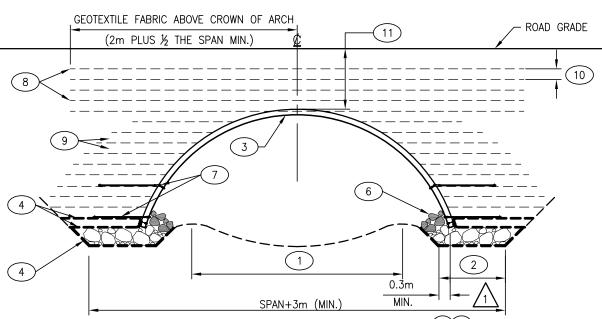
DEADMAN ANCHOR

GEOSYNTHETIC

COMPOSITE DRAIN AT

BOTTOM ANCHOR LEVEL

CONCEPT DRAWINGS ONLY NOT FOR CONSTRUCTION



ARCH FORM CHANNEL

CHANNEL DETAIL

SINGLE RADIUS DEEP CORRUGATED PLATE ARCH FORM 8.3m \OR LESS SPAN

DESCRIPTION

REVISIONS

SCALE AS SHOWN

STREAM CHANNELS TYP. <6.0m WIDE

DESIGN DISCHARGE TYP. <16.0m³/sec

DESIGN WATER DEPTH TYP.<1.0m

MINIMUM 4.1mm) WALL THICKNESS

BRITISH COLUMBI

Province of British Columbia MINISTRY OF FOREST, LANDS AND NATURAL RESOURCE OPERATIONS ENGINEERING BRANCH

STANDARD BRIDGE DRAWING

Terraspan® GRS Arch™ Structure—Conceptual Only Typical Cross-sections for Reconstructed and Natural Stream Channel Type Installations

RIGINAL SIGNED and SEALED BY: Calvin VanBuskirk, P.Eng., P.Geo. DESIGN ENGINEER Calvin VanBuskirk, P.Eng., P.Geo. June 2015 STD-C-050-04