

## GENERAL

- ANY DESIGN CHANGES PROPOSED DURING CONSTRUCTION SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE COORDINATING REGISTERED PROFESSIONAL.

## HYDROLOGY AND HYDRAULIC ASSESSMENT

- THE EXTENT OF THE RIP RAP IS BASED ON AVAILABLE INFORMATION, THE EXTENTS SHOULD BE ADJUSTED IN THE FIELD TO ENSURE ADEQUATE SCOUR PROTECTION IS PROVIDED TO THE BRIDGE SUBSTRUCTURE AND ABUTMENTS.

## CULVERT DESIGN

- CONFORM TO CAN/CSA-S6-06 (MODIFIED)
- DESIGN LIFE IS 45 YEARS

CULVERTS

- THE DESIGN SHOWS THE MINIMUM REQUIRED LENGTH & OPENING SIZE.
- THE CULVERT INSTALLATION, BEDDING & BACKFILL SHALL BE ADEQUATELY PROTECTED TO PREVENT SEEPAGE THAT WAY RESULT IN FAILURE OF THE ROAD EMBANKMENT.
- THE CULVERT INSTALLATION AND BACKFILL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- LOCATION TO BE CONFIRMED IN FIELD WITH COORDINATING REGISTERED PROFESSIONAL.
- D: DIAMETER

\*\* - IF THE CROSSING IS A FISH HABITAT THE LOWEST CULVERT WILL BE EMBEDDED OF 300MM INTO WATER COURSE.

- IF THE CROSSING IS NOT A FISH HABITAT THE LOWEST CULVERT WILL HAVE 10% OF ITS DIAMETER EMBEDDED INTO WATER COURSE.

\* - FOR CULVERTS DIAMETER AND QUANTITY : SEE PLAN AND PROFILE DRAWINGS.

## MATERIALS

- CORRUGATED STEEL PIPE: CONFORM TO CSA G40.21M  
PLATE: GRADE 350A (OTHER STRUCTURAL STEEL)

PLAN CLÉ  
KEY PLAN

## NOTE GÉNÉRALE / GENERAL NOTE

UTM ZONE 14 NAD 83 (SCRS)

The logo for WSP, featuring a stylized 3D block graphic to the left of the company name.

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This technical diagram illustrates the cross-section of a culvert structure, showing its components and dimensions. The diagram is labeled 'TYPICAL ELEVATION' at the bottom center.

**ROADWAY:** The top horizontal line represents the roadway, with two arrows pointing to the right labeled 'LANE & SHOULDER WIDTHS SEE ROAD DWGS.'.

**CULVERT:** The culvert structure is shown as a rectangular opening with a width of '2 D'. The inlet elevation varies, indicated by a vertical line with a downward arrow and the text 'INLET EL. VARIES'. The outlet elevation varies, indicated by a vertical line with a downward arrow and the text 'OUTLET EL. VARIES'. The culvert is supported by 'APPROVED BEDDING MATERIAL' at the bottom.

**WALLS:** The culvert walls are shown with a slope of 1:2.5. The height of the walls is labeled '500MM'.

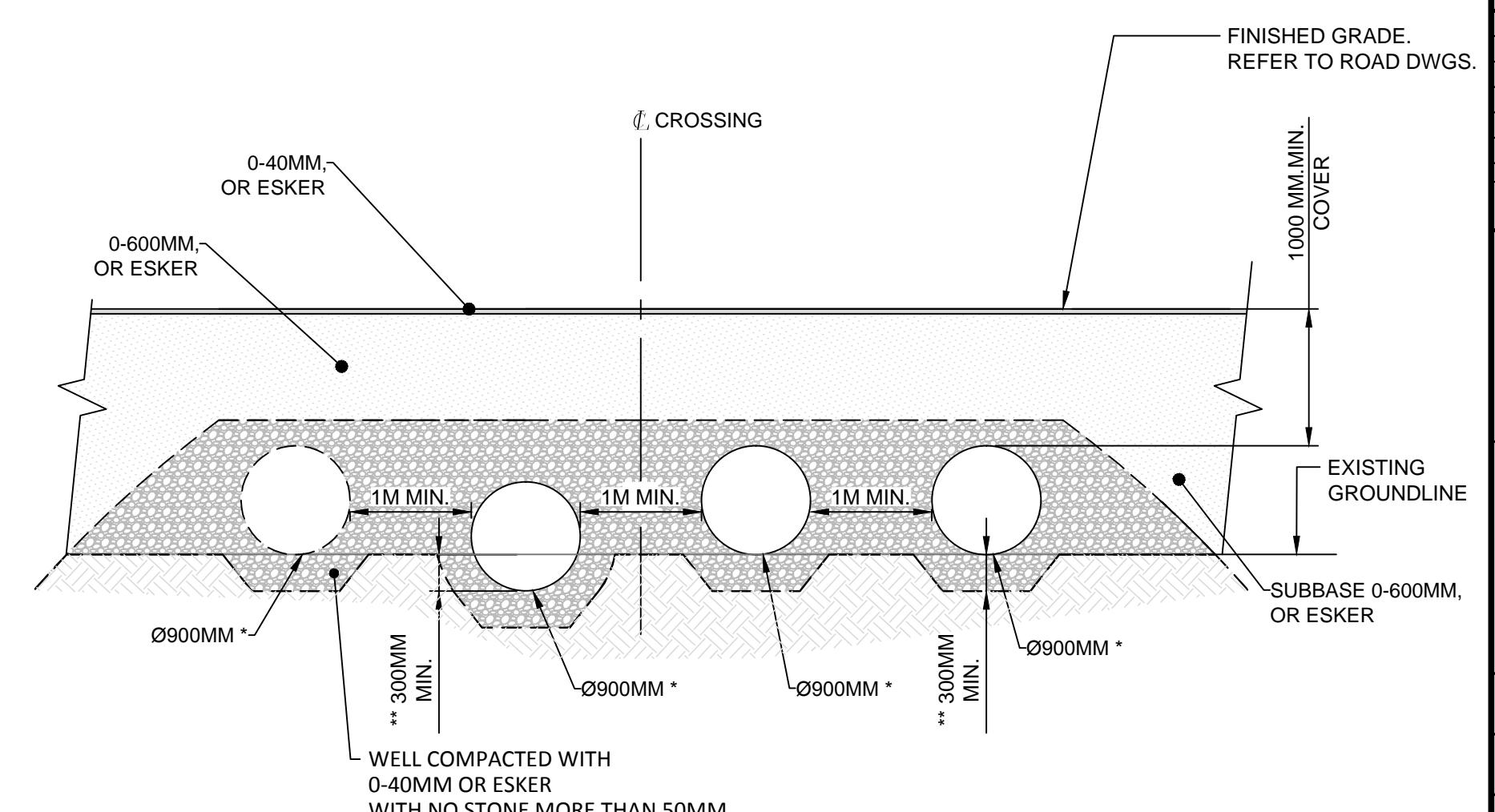
**FLOW:** An arrow labeled 'FLOW' points to the left, indicating the direction of water flow.

**SOIL SLOPES:** The soil slopes on either side of the culvert are labeled 'VARIES'.

**ROCK PROTECTION:** The bottom of the culvert is protected by 'RIP RAP SLOPE PROTECTION, TYP. UNDERLAY WITH NON-WOVEN FILTER FABRIC.'.

**Scale:** 1:50

#### WHEN THE CROSSING REQUIRES MULTI-PIPE CULVERTS



# **TYPICAL SECTION**

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