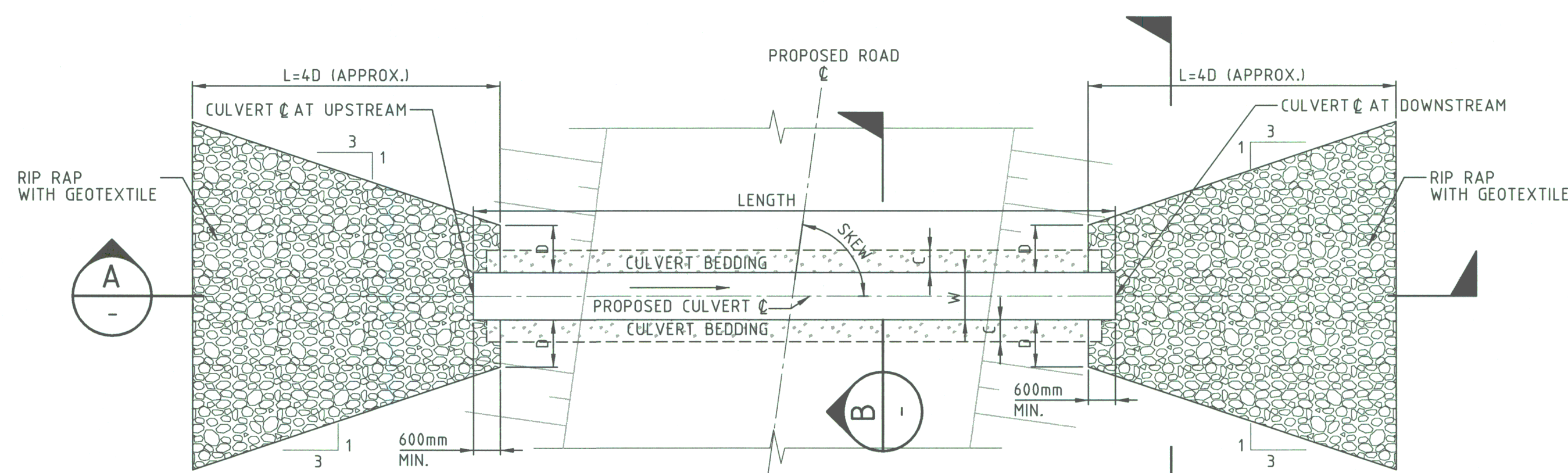
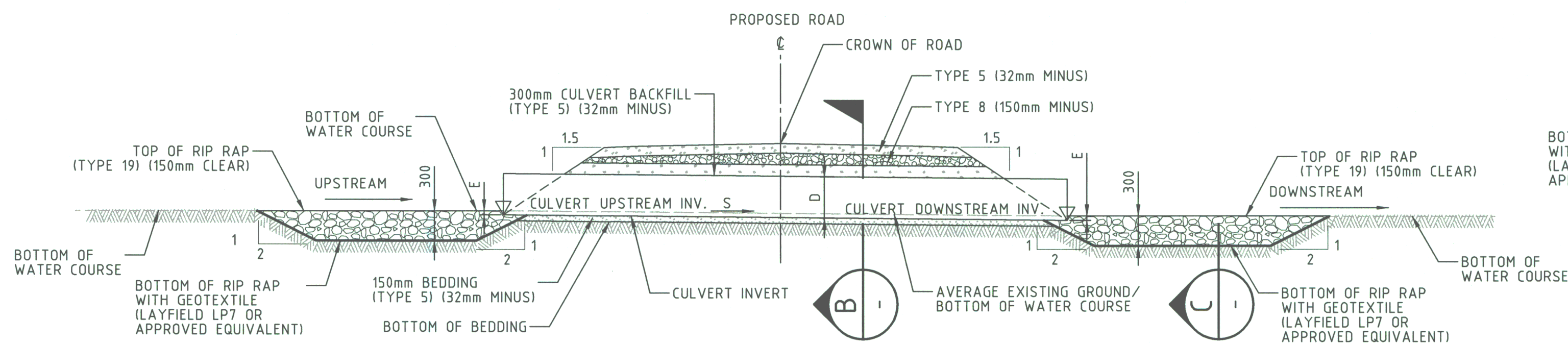


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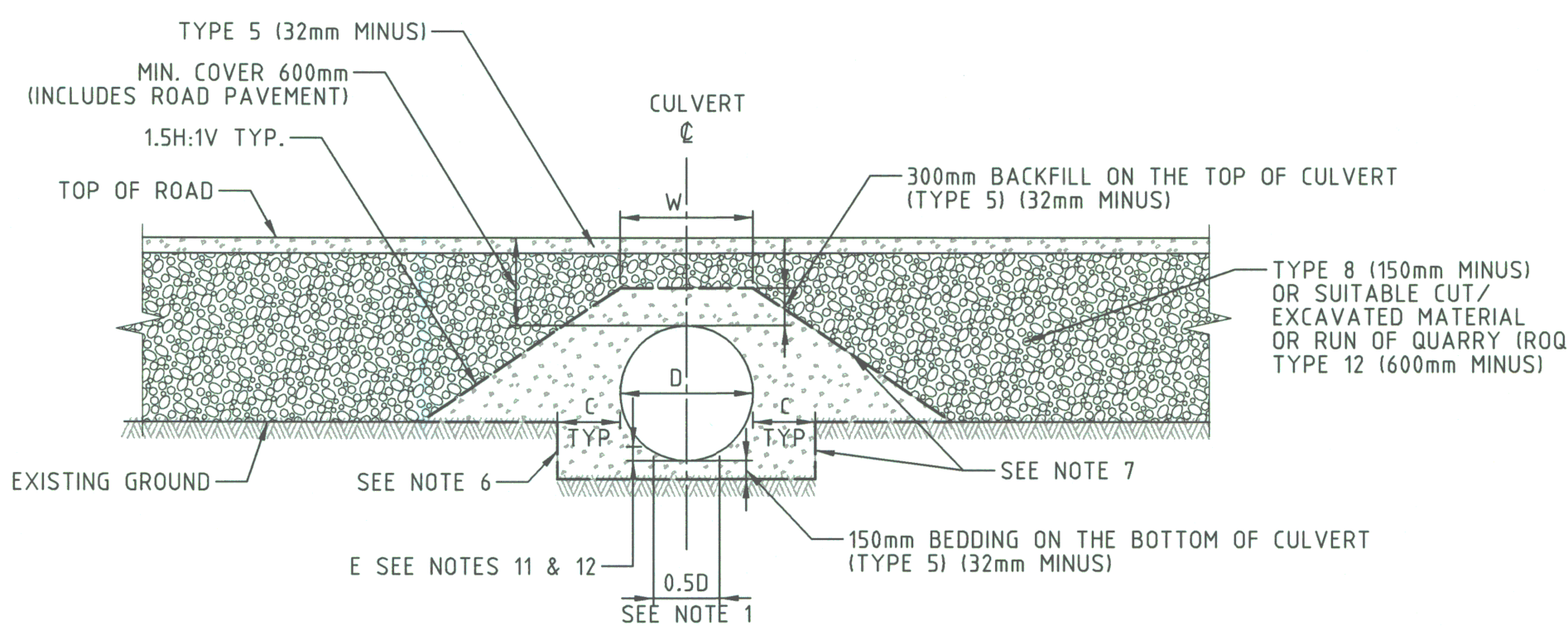
ON D.M.G.



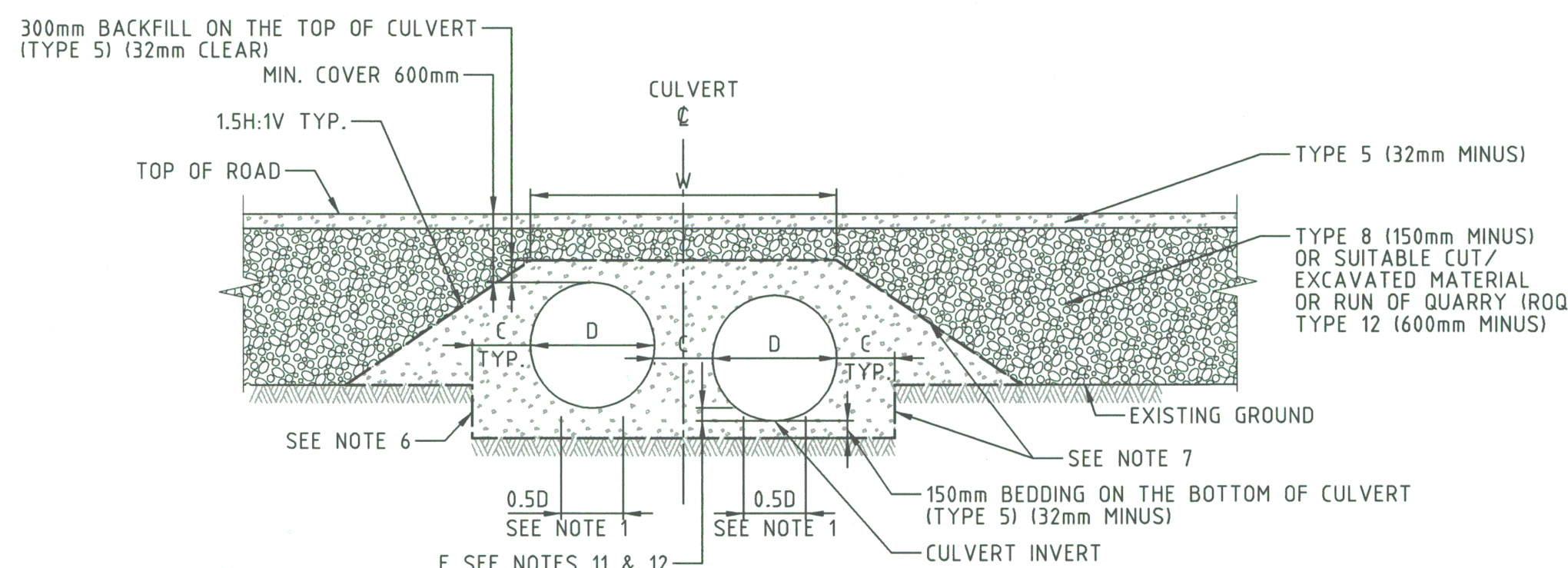
CULVERT PLAN VIEW
NTS



SECTION A-A
NTS



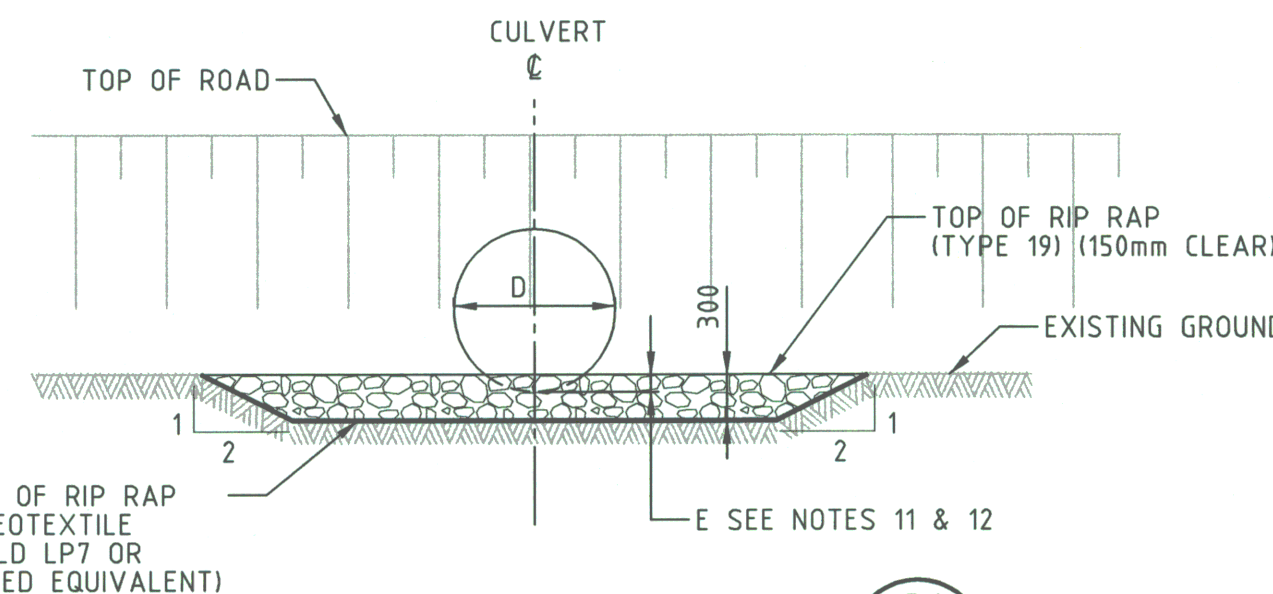
SINGLE PIPE SECTION B1
NTS



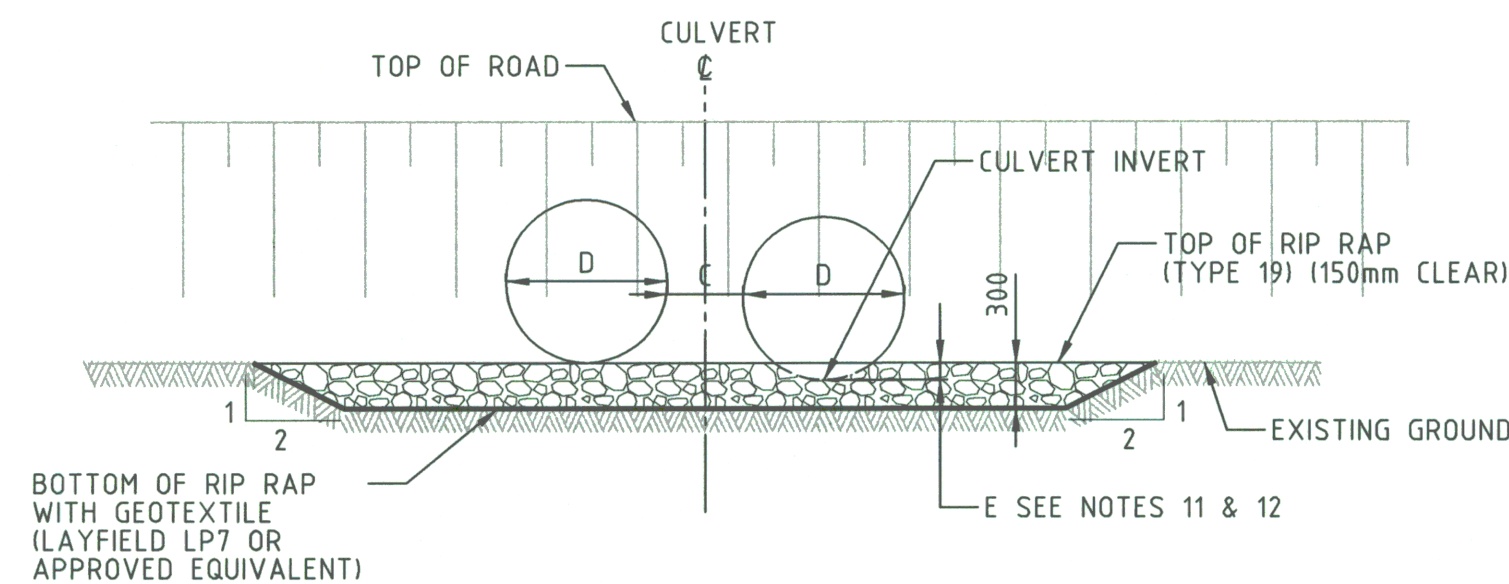
DOUBLE PIPE SECTION B2
NTS

CULVERT ID	FISH BEARING (Y/N)	NUMBER OF PIPES (n)	D (mm)	LENGTH (m)	E (mm)	W (mm)	TYPE	CULVERT AT UPSTREAM	U/S INV. ELV. (m)	RIP RAP REQUIRED (Y/N)	CULVERT AT DOWNSTREAM	D/S INV. ELV. (m)	RIP RAP REQUIRED (Y/N)	C (mm)	L (m)	S (%)	SKW DEGREE
								NORTHING	EASTING		NORTHING	EASTING					

CULVERT SCHEDULE



SINGLE PIPE SECTION C1
NTS



DOUBLE PIPE SECTION C2
NTS

LEGEND

- D CULVERT DIAMETER
- E EMBEDMENT DEPTH
- C CULVERT SPACING AND BEDDING CLEARANCE
C=500 WHILE D>900mm
C=300 WHILE D<900mm
- W CULVERT BACKFILL TOP WIDTH
W=n*D+(n-1)*C
- TYPE CULVERT MATERIAL
- U/S INV. ELV. CULVERT UPSTREAM INVERT ELEVATION
- D/S INV. ELV. CULVERT DOWNSTREAM INVERT ELEVATION
- L RIPRAP APRON LENGTH
L=4*D (APPROX.)
- S CULVERT SLOPE
- LENGTH CULVERT LENGTH

NOTES:

- THE PIPE BED SHALL BE SHAPED TO RECEIVE THE BOTTOM OF THE PIPE.
- GRANULAR MATERIAL PLACED UNDER THE HAUNCH MUST BE COMPACTED.
- BEDDING AND BACKFILL MATERIAL SHALL BE HOMOGENEOUS GRANULAR MATERIAL, AND SHALL BE PLACED AND COMPACTED UNIFORMLY AROUND THE PIPE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- WHERE VERTICAL EXCAVATION IS NOT POSSIBLE, MODIFY EXCAVATION SLOPE TO MIN. 1.5H: 1V.
- PROVIDE 300mm TYPE 8 (150mm MINUS) AROUND BEDDING AND BACK FILL MATERIAL ONLY WHEN ROCKFILL IS PRESENT.
- THE CULVERT UPSTREAM AND DOWNSTREAM LOCATIONS AND INVERT ELEVATIONS ARE BASED ON LIDAR DATA. NO BOTTOM OF STREAM SURVEY DATA WAS AVAILABLE AT THE TIME OF PREPERATION OF THIS DRAWING.
- ADJUST CULVERT START AND END COORDINATES AND INVERT ELEVATIONS IN THE FIELD AS APPROVED BY COMPANY'S REPRESENTATIVE.
- FLOW DIRECTION MUST BE FROM UPSTREAM TO DOWNSTREAM. PROVIDE AVERAGE STREAM SLOPE ALONG THE CULVERT AS CULVERT SLOPE BASED ON ACTUAL FIELD CONDITION.
- FOR FISH BEARING CULVERT, E=0.10
FOR NON-FISH BEARING CULVERT, E=0
- FOR FISH BEARING CULVERT WITH MULTIPLE PIPES, ONLY ONE PIPE SHALL BE EMBEDDED BY "E" (APPROXIMATELY 0.10) AND ALL OTHER PIPES SHALL BE PLACED ON GROUND/BOTTOM OF WATER COURSE.

FOR CONSTRUCTION

HATCH

Baffinland

MARY RIVER PROJECT

PROJECT WIDE
CIVIL STANDARD DRAWING
TYPICAL CULVERT DETAILS

DESIGNED BY
A. SAHELI
DATE 2013-05-09
CHECKED BY
K. FALLAH
DATE 2013-06-07
PROJ. MGR.
T. THIERMANN
DATE 2013-06-07
S. PERCY
DATE 2013-06-07

DRAWN BY
J. YE
DATE 2013-05-09
DISCIP. ENGR.
S. HASSAN
DATE 2013-06-07
PROJ. ENGR.
J. CLELAND
DATE 2013-06-07

SCALE
NTS
OR AS NOTED

DWG. NO.
H349000-1000-10-041-0003

REV.
0

ORIGINAL SHEET SIZE: ISO A1 (841 x 594)



ISSUE AUTHORIZATION

0 CONSTRUCTION
REV. ISSUE FOR AUTH. BY DATE

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DRAWING NO.
REFERENCE DRAWINGS

NO. DESCRIPTION BY CHK'D APP'D DATE

REVISIONS