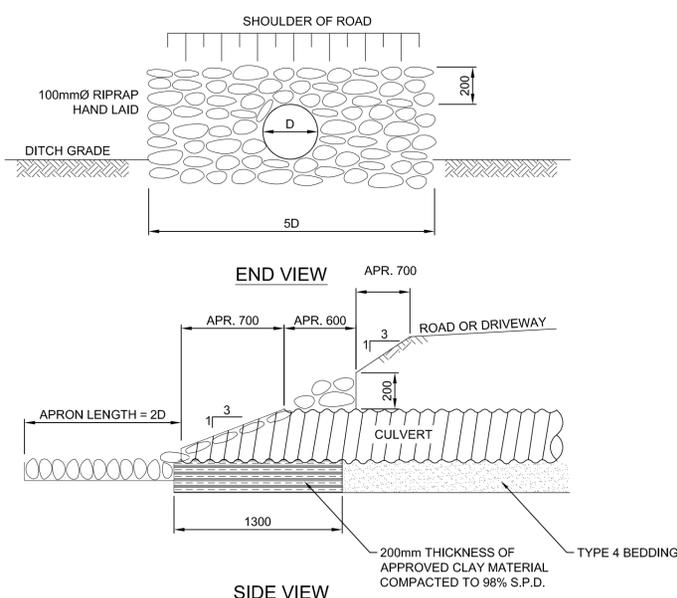


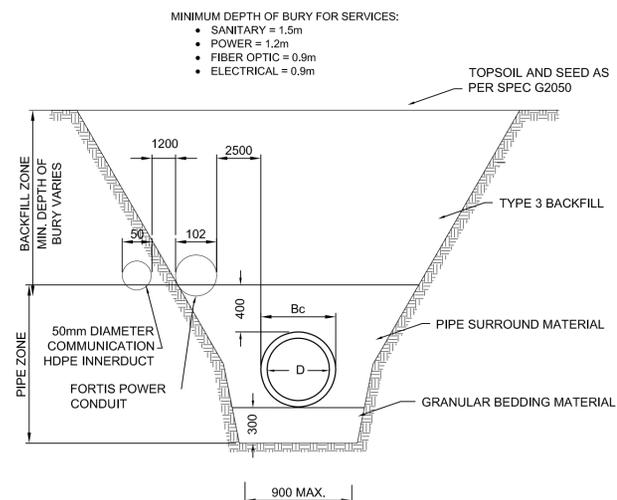
- NOTE:**
- EXCAVATE TO 450mm BELOW GRADE
 - SCARIFY AND COMPACT SUBGRADE
 - BLEND TOPSOIL TO SHOULDERS OF ROADS
 - DISPOSE OF SURPLUS TOPSOIL & EXCAVATED MATERIAL WHERE DESIGNATED BY DEPARTMENTAL REPRESENTATIVE

1 ROAD CROSSING GRADING/BACKFILL DETAIL
SCALE: N.T.S



- NOTE:**
- NEED A MINIMUM OF 4m LENGTH GREATER THAN ROAD WIDTH ON RUN PARALLEL TO EXISTING ROAD. TOTAL LENGTH +/- 13m

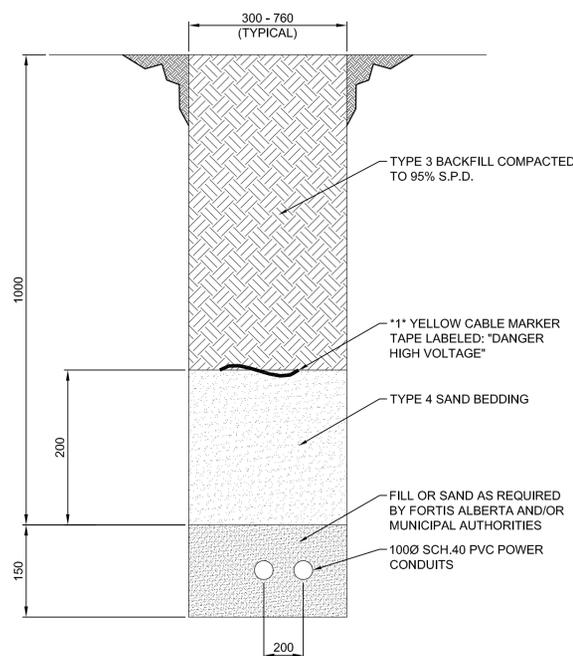
2 CULVERT INSTALLATION DETAIL
SCALE: N.T.S



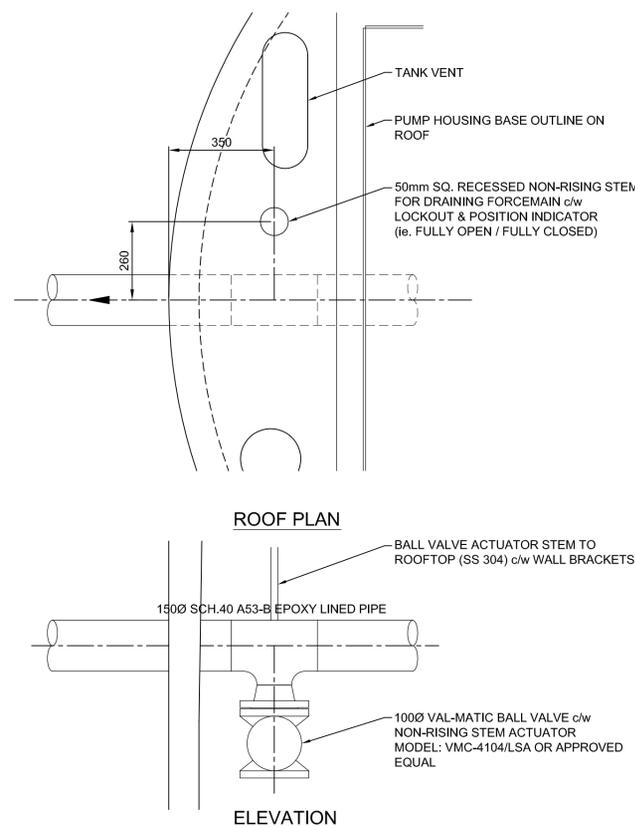
- MINIMUM DEPTH OF BURY FOR SERVICES:**
- SANITARY = 1.5m
 - POWER = 1.2m
 - FIBER OPTIC = 0.9m
 - ELECTRICAL = 0.9m
- TOPSOIL AND SEED AS PER SPEC G2050**
- NOTES:**
- USE SUITABLE MATERIAL OR IMPORTED GRANULAR MATERIAL AS PER SPECIFICATIONS.
 - BACKFILLING SHALL BE CAREFULLY PLACED IN 150mm LAYERS. EACH LAYER SHALL BE CAREFULLY TAMPED ON BOTH SIDES OF THE PIPE SIMULTANEOUSLY.
 - COMPACTION DENSITY SHALL BE MINIMUM OF 95% OF SOILS MAXIMUM DENSITY.
 - PIPE SURROUND MATERIAL AND GRANULAR BEDDING MATERIAL TO SPECIFICATION 33 34 00 FOR FORCEMAIN AND 33 31 13 FOR GRAVITY MAINS.
 - CONTRACTOR TO INSTALL TEN (10) COMPACTED CLAY OR LEAN MIX CONCRETE PUGS IN THE PIPE SURROUND OF THE HDPE FORCEMAIN AT LOCATIONS TO BE DETERMINED BY THE GEOTECHNICAL CONSULTANT.

3 SANITARY PIPE BEDDING DETAIL
SCALE: N.T.S

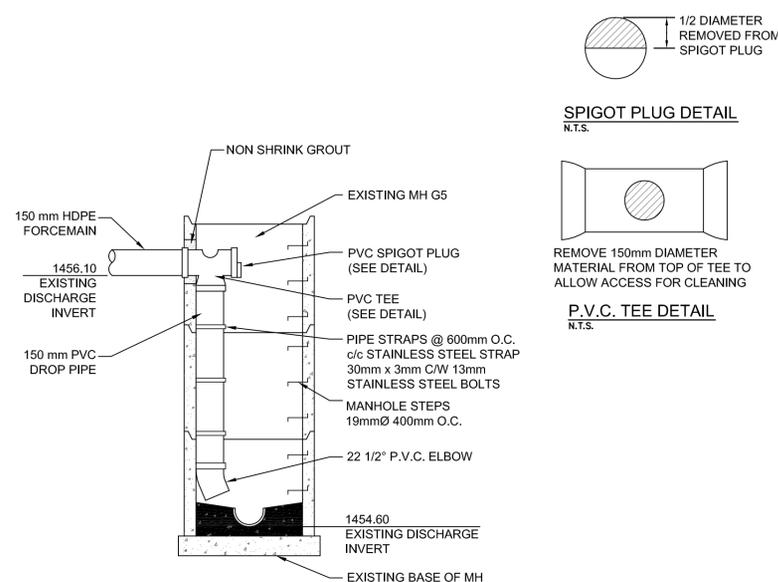
- NOTES:**
- THE CONTRACTOR IS TO COORDINATE ALL SERVICES AND TRENCHING ON SITE. COORDINATE ALL SERVICES WITH RESPECTIVE UTILITIES. CONFIRM WITH UTILITIES PRIOR TO TRENCHING AND INSTALLATION.
 - FORTIS MARKER TAPE ITEM: 492-0102.
 - FORTIS BALL MARKER ITEM: 484-3400 (AS PER FORTIS MATERIAL BULLETIN: MB-013).
 - ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.



4 STANDARD ELECTRIC BACKFILL TRENCH DETAIL
SCALE: N.T.S



5 DRAIN VALVE DETAIL
SCALE: N.T.S



- NOTES:**
- ALL PVC PIPES TO BE SDR 35 PIPE CONFORMING TO C.S.A. B182.2 AND A.S.T.M. D3034

- MATERIAL SPECIFICATIONS:**
- PVC PIPE IN ACCORDANCE WITH CSA. B182.2. SDR35
 - GROUT SHALL CONFORM TO CSA A179 TABLE 3 AND CAN3-A23.1-M90.

6 INTERIOR DROP MANHOLE AT EX MH G5
SCALE: N.T.S

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

REVISIONS	DESCRIPTION	DATE
G	ISSUED FOR TENDER	2013/06/14
F	ISSUED FOR APPROVAL	2013/05/21
E	99% RE-SUBMITTAL	2012/03/15
D	99% SUBMITTAL	2011/06/21
C	66% SUBMITTAL	2011/03/31
B	33% SUBMITTAL	2010/07/02
A	PRELIMINARY	2010/01/05

A	detail number	A
C	number of detail	B/C
	B source drawing no.	
	de dessin no.	
	C detail on drawing no.	
	detail sur dessin no.	

project title / titre du projet: **TUNNEL MOUNTAIN CAMPGROUND IMPROVEMENTS**

BANFF NATIONAL PARK

drawing title / titre du dessin: **LIFT STATION**

DETAILS AND SECTIONS

designed by / conçu par: D. FINNEY	drawn by / dessiné par: J. QUAIL	approved by / approuvé par: J. BERRY
PWSC Project Manager / Administrateur de Projets TPSSC: S. KING		
scale / échelle: AS SHOWN	sheet / feuille: C300	project no. / projet no.: R.031117.001
date / date: MARCH 2011	1 OF 5	