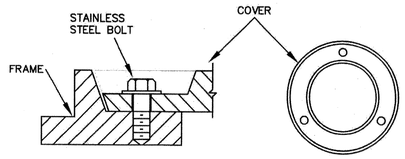
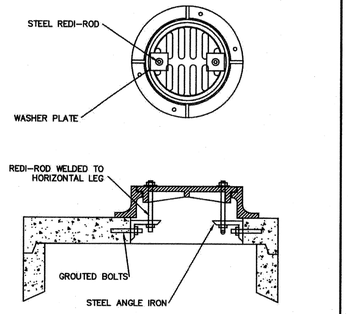


SECURITY MANHOLE COVER DETAIL
NOT TO SCALE

*NOTES
1. PROPRIETARY PRODUCTS ACHIEVING SAME FUNCTION ARE ACCEPTABLE SUBJECT TO APPROVAL OF DEPARTMENTAL REPRESENTATIVE.

2. FOR GRATED COVERS, AN ACCEPTABLE ALTERNATIVE TO THE ABOVE DETAIL IS AS SHOWN BELOW.



SCHEMATIC CBMH & LAWN DRAIN COVER GRATED LOCKING SYSTEM
NOT TO SCALE

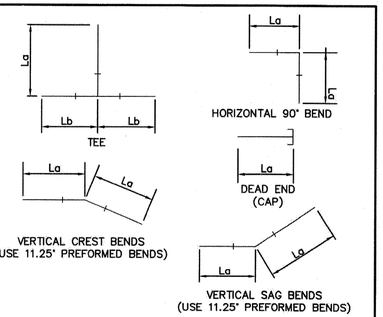
(CONTRACTOR TO PROVIDE SHOP DRAWING SUBMITTAL FOR APPROVAL)

SANITARY SEWER & DRAINAGE SYSTEM

1. ALL MANHOLES AND CATCHBASINS SHALL BE SECURED WITH SPECIAL FASTENINGS TO PREVENT UNAUTHORIZED ENTRY. STANDARD COVERS AND FRAMES TO BE MODIFIED PER STANDARD DETAIL ON SHEET C04.
1.1. COVERS: DRILL THREE EQUIDISTANT 20mm HOLES NEAR THE PERIMETER TO RECEIVE 16mm STAINLESS STEEL HEXAGON HEAD BOLTS. COUNTERSINK FOR WASHERS AND BOLT HEADS TO ENSURE A FLUSH INSTALLATION.
1.2. FRAME: DRILL AND TAP FRAME TO RECEIVE THE BOLTS FROM THE COVER. PROVIDE LUG WRENCHES.

BEFORE YOU DIG

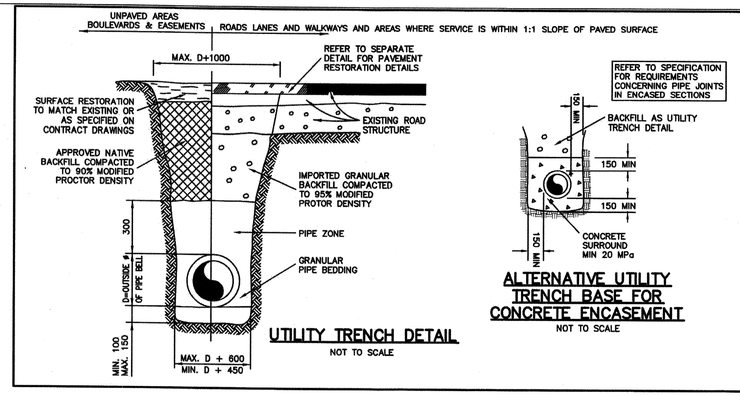
THE LOCATION OF THE EXISTING UTILITIES HAS BEEN SHOWN BASED ON AVAILABLE INFORMATION. THE ACCURACY AND COMPLETENESS OF THE DRAWING IN THIS RESPECT IS NOT GUARANTEED. THE EXACT LOCATION OF THESE UTILITIES AND SERVICES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. SERVICES STATED TO BE ABANDONED OR REMOVED ARE TO BE VERIFIED BY THE CONTRACTOR. ALL CONFLICTS TO BE IMMEDIATELY REPORTED TO PUBLIC WORKS & GOVERNMENT SERVICES CANADA AND WEDLER ENGINEERING



RESTRAINED LENGTH REQUIREMENT

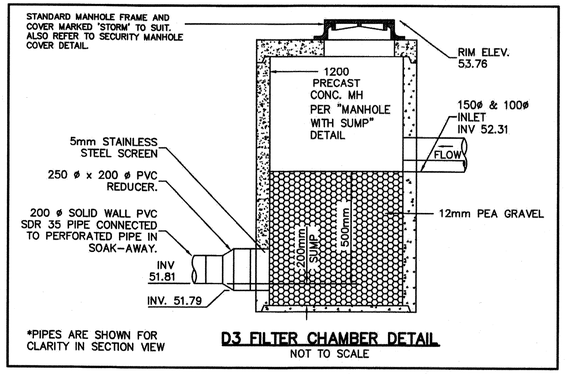
FITTING	La (m)	Lb (m)	Lc (m)
150ø WET TAP TEE	17.4	0.0	–
150ø X 150ø 90° BEND–HORIZONTAL	5.8	–	–
150ø CAP	17.4	–	–
HYDRANT WET TAP TEE	TO HYDRANT	–	–
150x150ø 11.25° BEND–VERTICAL CREST	1.9	–	–
150x150ø 11.25° BEND–VERTICAL SAG	0.7	–	–

MECHANICAL JOINT RESTRAINT

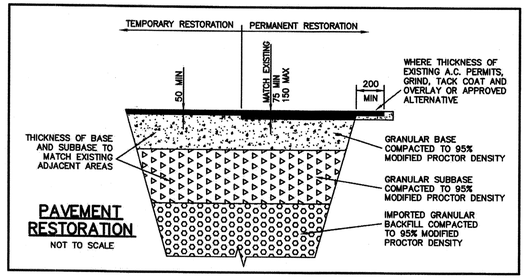


UTILITY TRENCH DETAIL
NOT TO SCALE

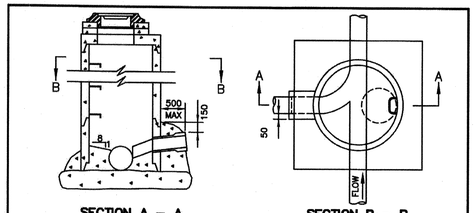
ALTERNATIVE UTILITY TRENCH BASE FOR CONCRETE ENCASEMENT
NOT TO SCALE



D3 FILTER CHAMBER DETAIL
NOT TO SCALE

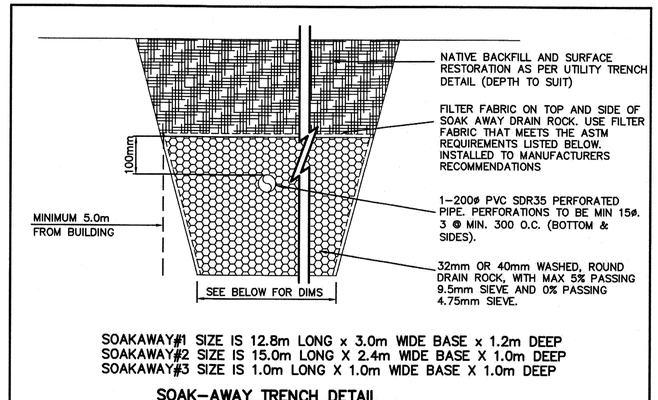


PAVEMENT RESTORATION
NOT TO SCALE



SECTION A – A
SECTION B – B

STANDARD MANHOLE TYPICAL CONNECTION DETAIL
NOT TO SCALE



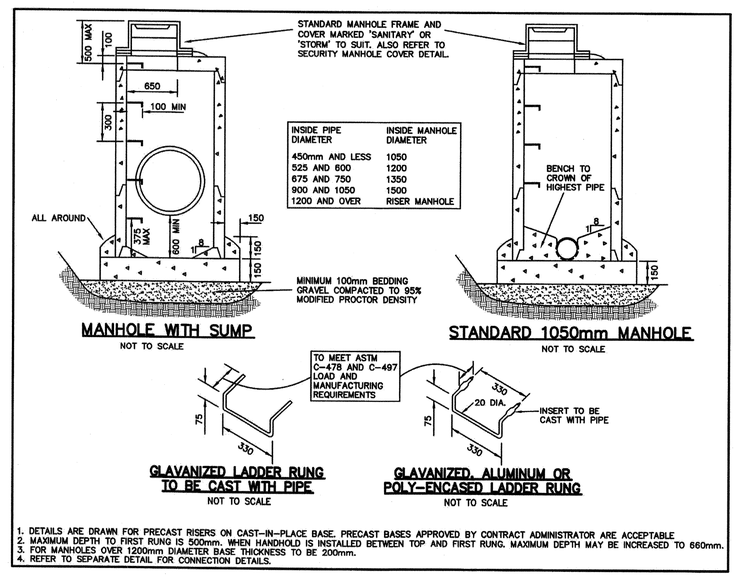
SOAKAWAY#1 SIZE IS 12.8m LONG x 3.0m WIDE BASE x 1.2m DEEP
SOAKAWAY#2 SIZE IS 15.0m LONG X 2.4m WIDE BASE X 1.0m DEEP
SOAKAWAY#3 SIZE IS 1.0m LONG X 1.0m WIDE BASE X 1.0m DEEP

SOAK-AWAY TRENCH DETAIL
NOT TO SCALE

NOTES:
1. ONLY CLEAN WATER FREE OF ANY SILT, CLAY OR OTHER CONTAMINANTS IS TO ENTER THE SOAK-AWAY PIT
2. ENGINEER TO INSPECT EXCAVATION WITH FILTER CLOTH INSTALLED & BACKFILL MATERIAL ON SITE PRIOR TO INFILLING

DISCLAIMER

WEDLER ENGINEERING LTD. DOES NOT GUARANTEE OR ASSUME ANY LIABILITY FOR FLOODED BASEMENTS OR CRAWL SPACES



MANHOLE WITH SUMP
NOT TO SCALE

STANDARD 1050mm MANHOLE
NOT TO SCALE

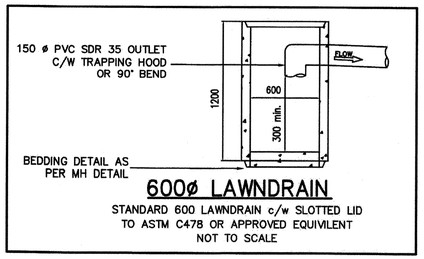
GLAVANIZED LADDER RUNG TO BE CAST WITH PIPE
NOT TO SCALE

GLAVANIZED, ALUMINUM OR POLY-ENCASED LADDER RUNG
NOT TO SCALE

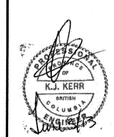
1. DETAILS ARE DRAWN FOR PRECAST RISERS ON CAST-IN-PLACE BASE. PRECAST BASES APPROVED BY CONTRACT ADMINISTRATOR ARE ACCEPTABLE
2. MAXIMUM DEPTH TO FIRST RUNG IS 500mm. WHEN HANDHOLD IS INSTALLED BETWEEN TOP AND FIRST RUNG. MAXIMUM DEPTH MAY BE INCREASED TO 660mm.
3. FOR MANHOLES OVER 1200mm DIAMETER BASE THICKNESS TO BE 200mm.
4. REFER TO SEPARATE DETAIL FOR CONNECTION DETAILS.

Property	Test Method	Minimum Average Roll Value
Grab Tensile	ASTM D 4632	160 lbs
Grab Elongation	ASTM D 4632	50%
Mullen Burst	ASTM D 3786	310 psi
Puncture	ASTM D 4833	90 lbs
Trapezoidal Tear	ASTM D 4533	65 lbs
UV Resistance	ASTM D 4355	70 % at 500 hrs
AOS(1)	ASTM D 4751	70 sieve
Permittivity	ASTM D 4491	1.5 sec-1
Flow Rate	ASTM D 4491	110 gal/min/ft2

SOAKAWAY FILTER FABRIC REQUIREMENTS



600ø LAWNDRAIN
STANDARD 600 LAWNDRAIN c/w SLOTTED LID TO ASTM C478 OR APPROVED EQUIVILENT
NOT TO SCALE



0 10 20 30 40 50 60 70 80 90 100mm

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

WEDLER ENGINEERING

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- Chilliwack 1.604.792.0651
- Courtenay 1.250.334.3283
- Surrey 1.604.588.1919
- Edmonton 1.780.232.4252

Revision/ Revision	Description/Description	Date/Date
8	TENDER ADDENDUM WATER TIE-IN LOCATION AND JOINT RESTRAINT SCHEDULE REVISED.	2013/02/26
7	TENDER ISSUE	2012/10/31
6	TENDER ISSUE	2012/09/11
5	ISSUED FOR COORDINATION	2012/09/05
4	99% SUBMISSION	2012/06/21
3	ISSUED FOR COORDINATION	2012/06/12
2	ISSUED FOR COORDINATION	2012/06/01
1	ISSUED FOR COORDINATION	2012/05/23

Client/client

CORRECTIONAL SERVICE OF CANADA

Project title/Titre du projet

FRASER VALLEY INSTITUTION
33344 KING ROAD, ABBOTSFORD, BC
TWENTY BED LIVING UNIT

Consultant Approval Box Only

Designed by/Concept par
FRAZER DRURY

Drawn by/Dessine par
CALEB JARVIS

PWGSC Project Manager/Administrateur de Projets TPSGC
Patrick Truong

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.052462.001	C04	8