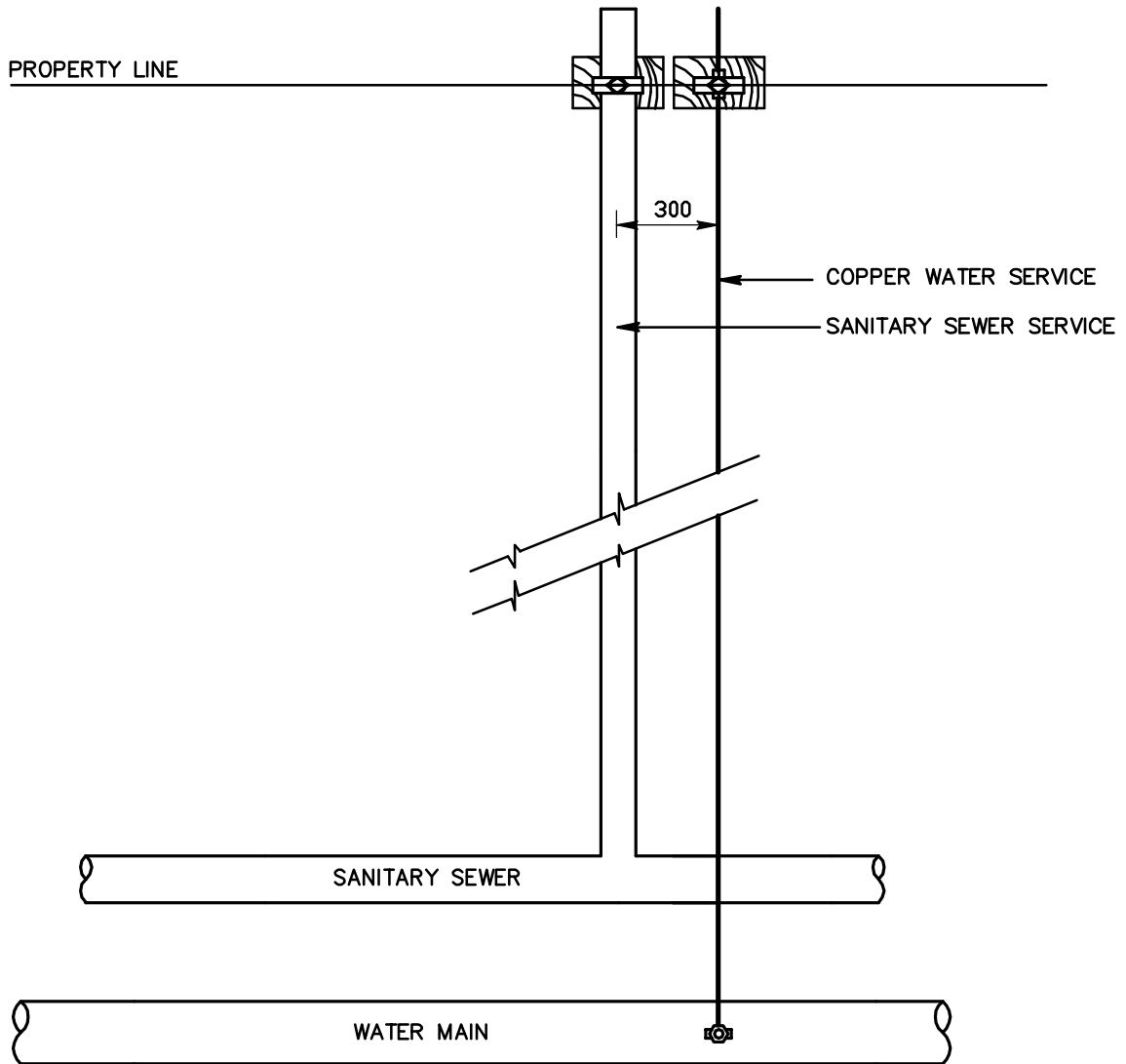


SERVICE TO ENTER LOT WITHIN 2.25m OF CENTER LINE OF LOT




NOTES:

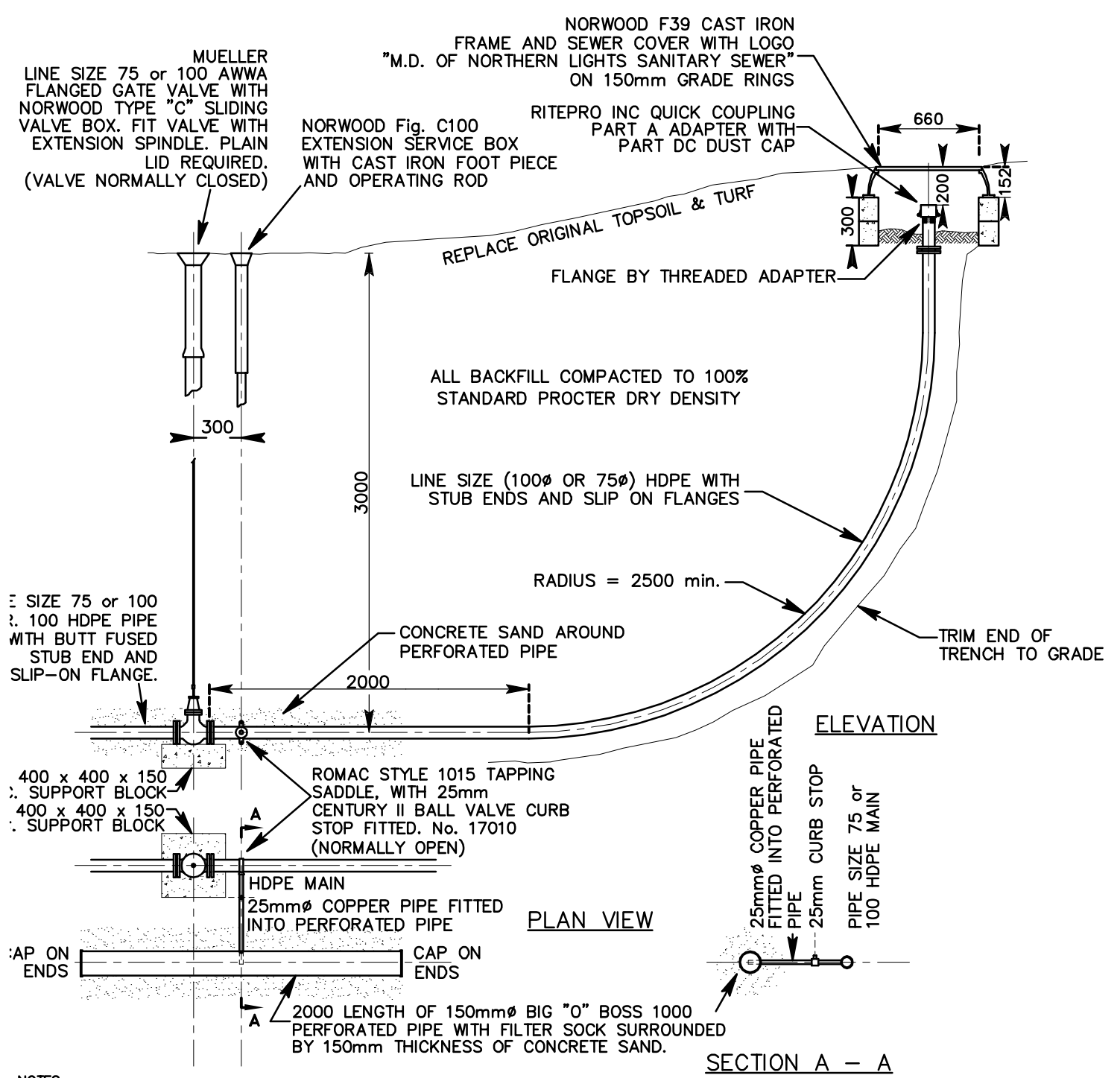
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.
3. SERVICES MAY BE EXTENDED INTO PRIVATE PROPERTY TO EDGE OF GAS EASEMENT IN LANELESS SUBDIVISIONS.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SINGLE LOW PRESSURE (SAN.) SERVICE	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-01
Date: 2009-04-16	Drawn: T.L.B.	Scale NTS		



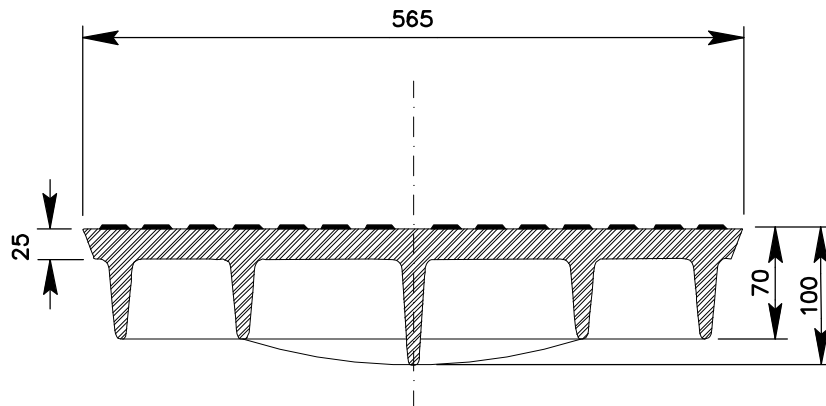
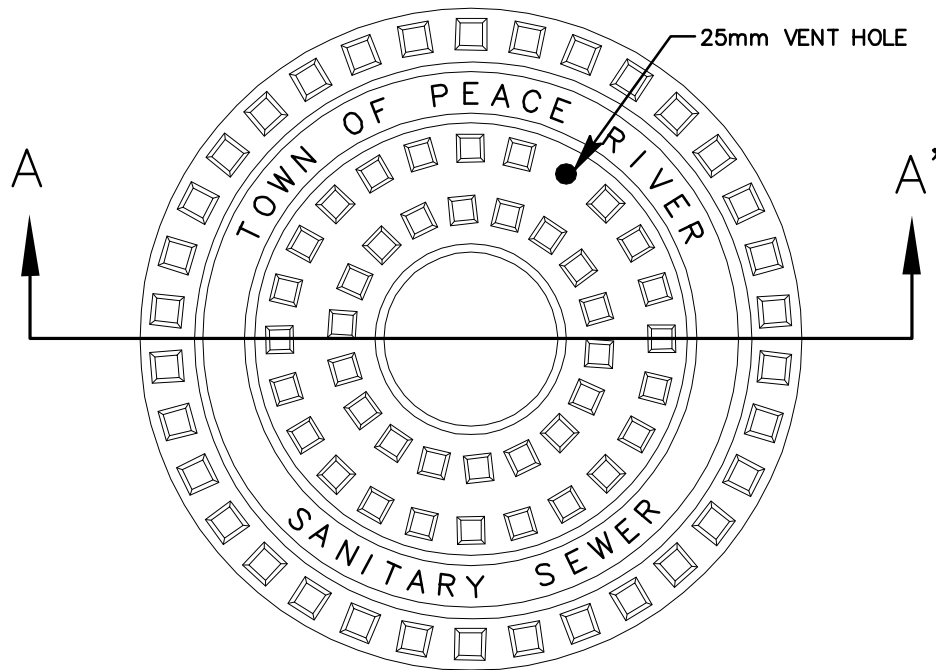
- NOTES:**
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SANITARY CLEAN OUT DETAIL	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-02
Date: 2009-04-16	Drawn: T.L.B.	Scale: NTS		



SECTION A-A'


NOTES:

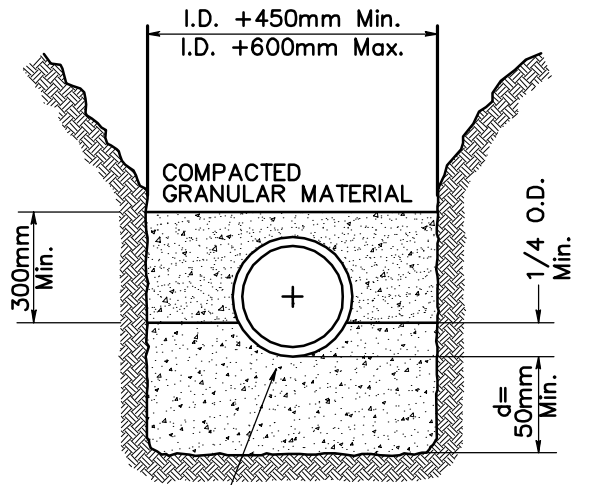
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.
3. F39 MANHOLE COVER, MASS 65 kg.

TOWN OF PEACE RIVER

General Municipal Servicing Standards

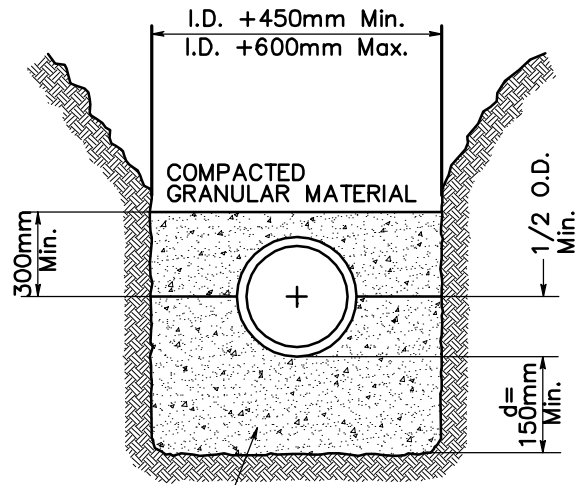


Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	MANHOLE COVER-SANITARY SEWER	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-03
Date: 2009-04-16	Drawn: T.L.B.	Scale NTS		



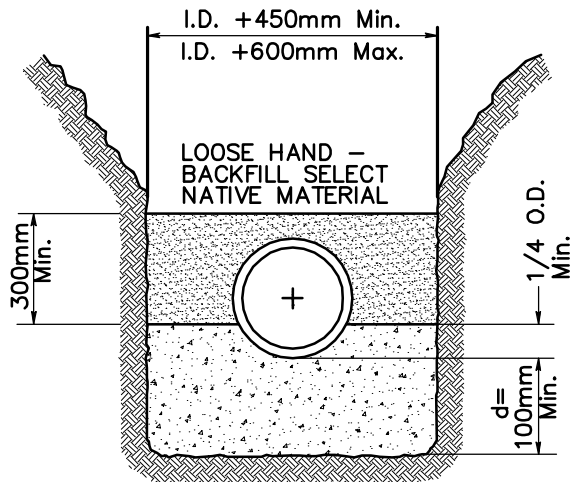
CONCRETE CRADLE Min.
COMP. STRENGTH = 15Mpa

CLASS 'A'

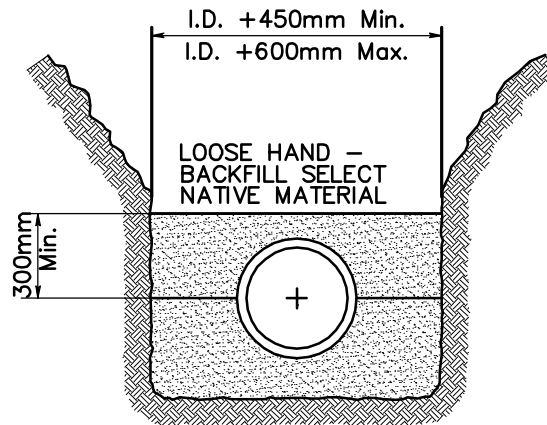


COMPACTED GRANULAR MATERIAL (TO 95% SPD)

CLASS 'B'
(WATER AND SEWER MAINS)



CLASS 'C'
P.V.C. SEWER SERVICE



CLASS 'D'
(WATER AND SEWER MAINS)

NOTE: ALL GRANULAR BEDDING AND BACKFILL MATERIALS TO BE COMPACTED TO 95% S.P.D.


NOTES:

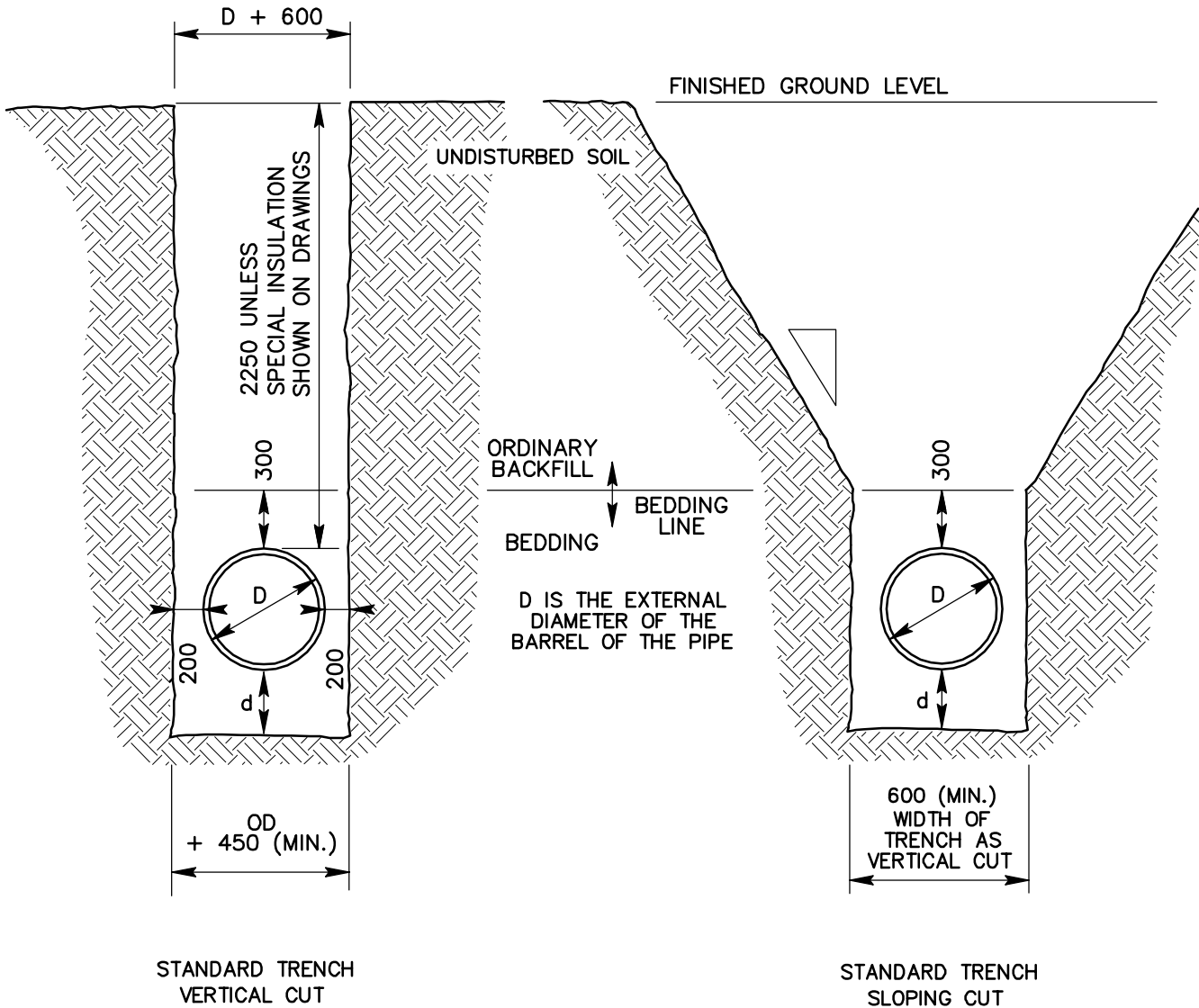
1. W=TRENCH WIDTH - O.D. + 450mm (MINIMUM)
 - O.D. + 400mm Max. (ON EITHER SIDE {800mm TOTAL}) FOR PIPE DIAMETERS 450mm and ABOVE.
 - 1000mm Max. FOR PIPES UP TO AND INCLUDING 400mm DIAMETER.
2. O.D. = OUTSIDE PIPE DIAMETER.
3. I.D. = INSIDE PIPE DIAMETER.
4. d = DEPTH OF BEDDING BELOW PIPE.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
6. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIAL MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PIPE BEDDING DETAILS	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-04
Date: 2009-04-16	Drawn: TLB	Scale NTS		



(ALL EXCAVATIONS TO BE SLOPED OR SHORED
AS PER OCCUPATIONAL HEALTH AND SAFETY STANDARDS)

MAXIMUM TRENCH WIDTHS FOR SINGLE PIPES

1000mm – UP TO AND INCLUDING 400mm DIAMETER PIPE
600mm + OD – >400mm DIAMETER PIPE

DEPTH OF BEDDING BELOW PIPE BARREL (d)

75mm – EXTERNAL DIAMETER OF 700mm AND BELOW
100mm – EXTERNAL DIAMETER GREATER THAN 700mm

NOTES:

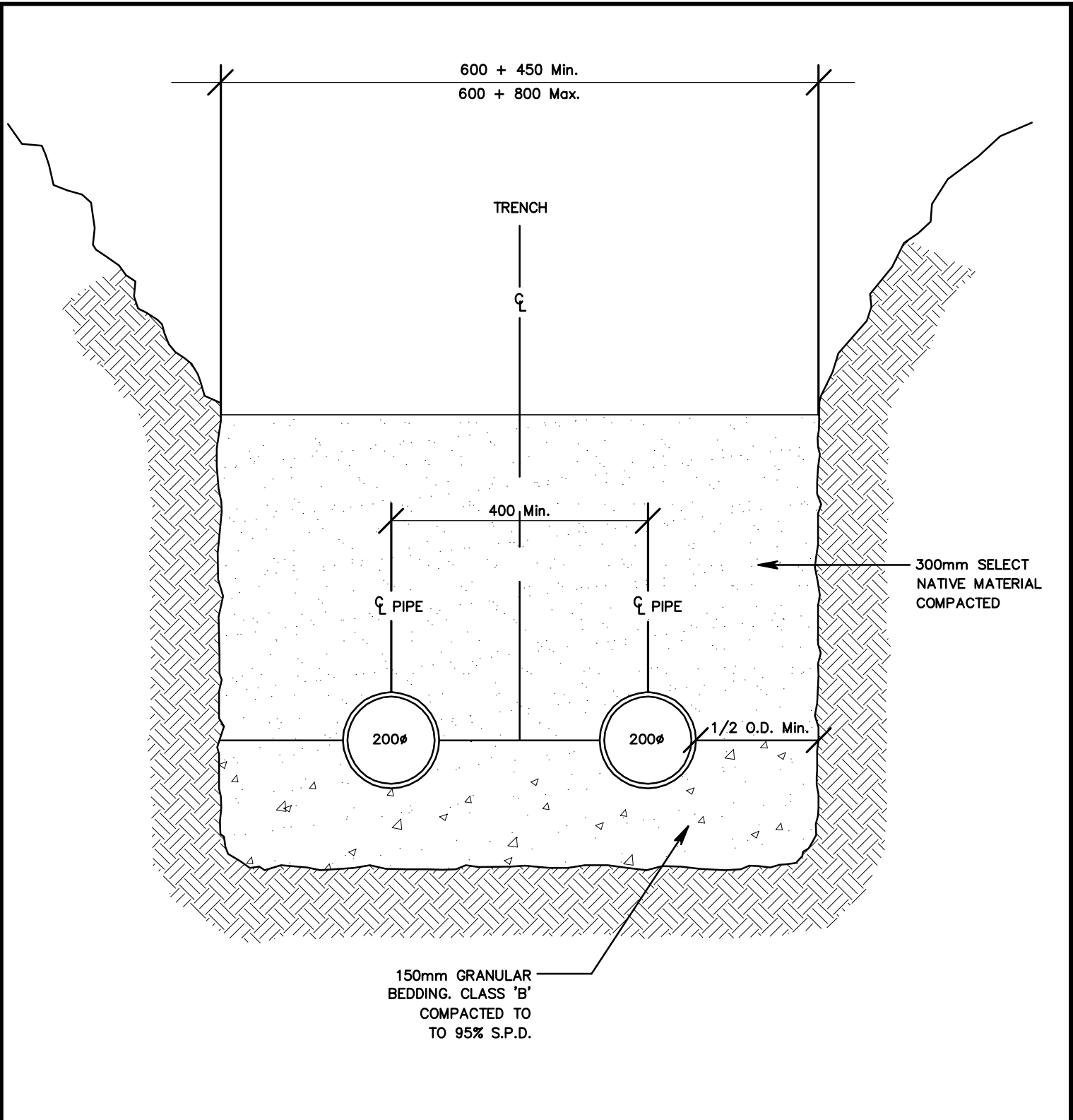
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD TRENCH DIMENSIONS FOR CIRCULAR PIPE	
Rev.			Approved:	Figure E-05A
Rev.				
Rev.	File No.: GP6033068	Design:		
Date: 2009-04-16	Drawn:	Scale NTS		




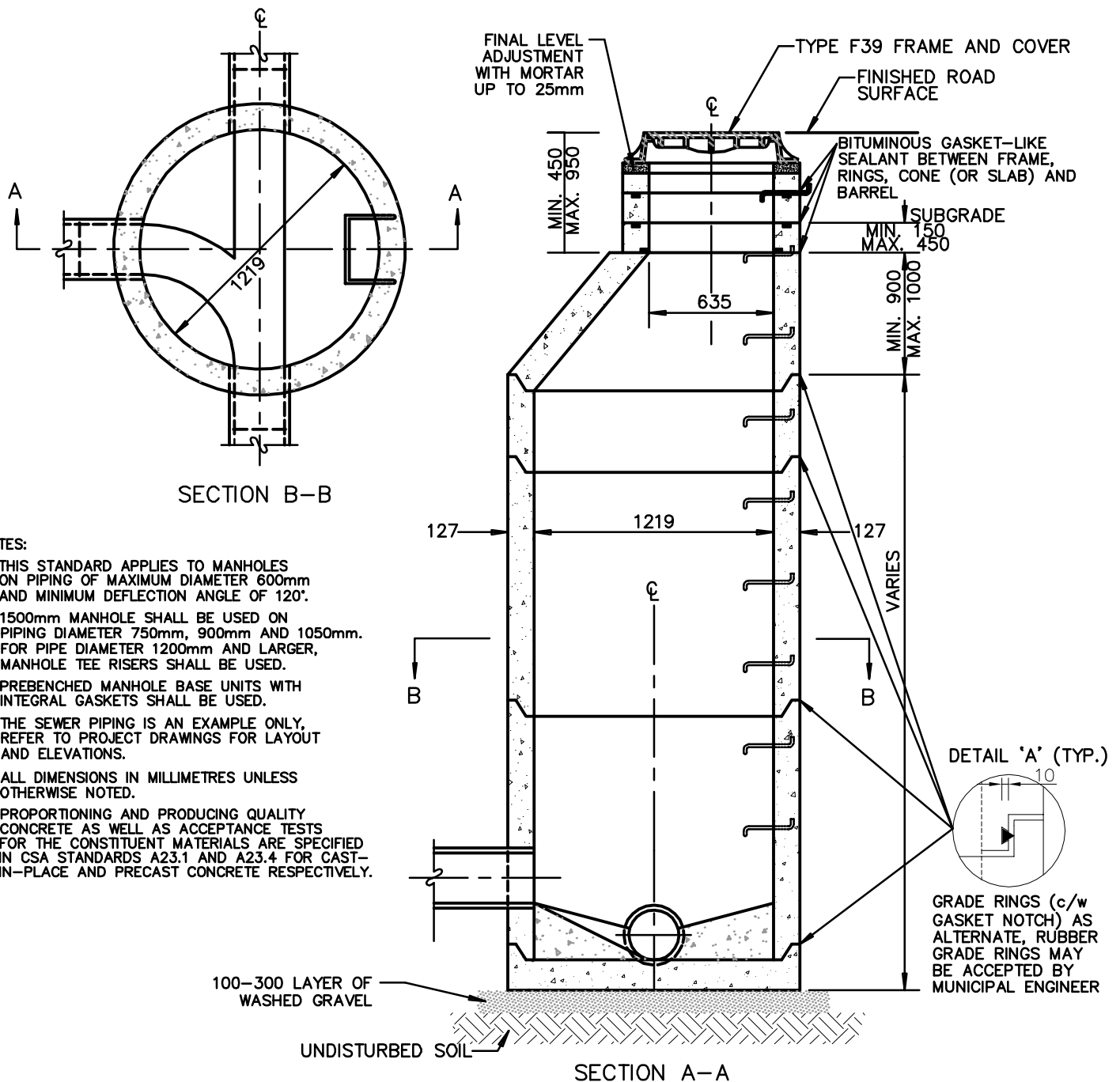
NOTE:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PIPE INSTALLED IN COMMON TRENCH	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-05B
Date: 2009-04-16	Drawn: JAD	Scale NTS		



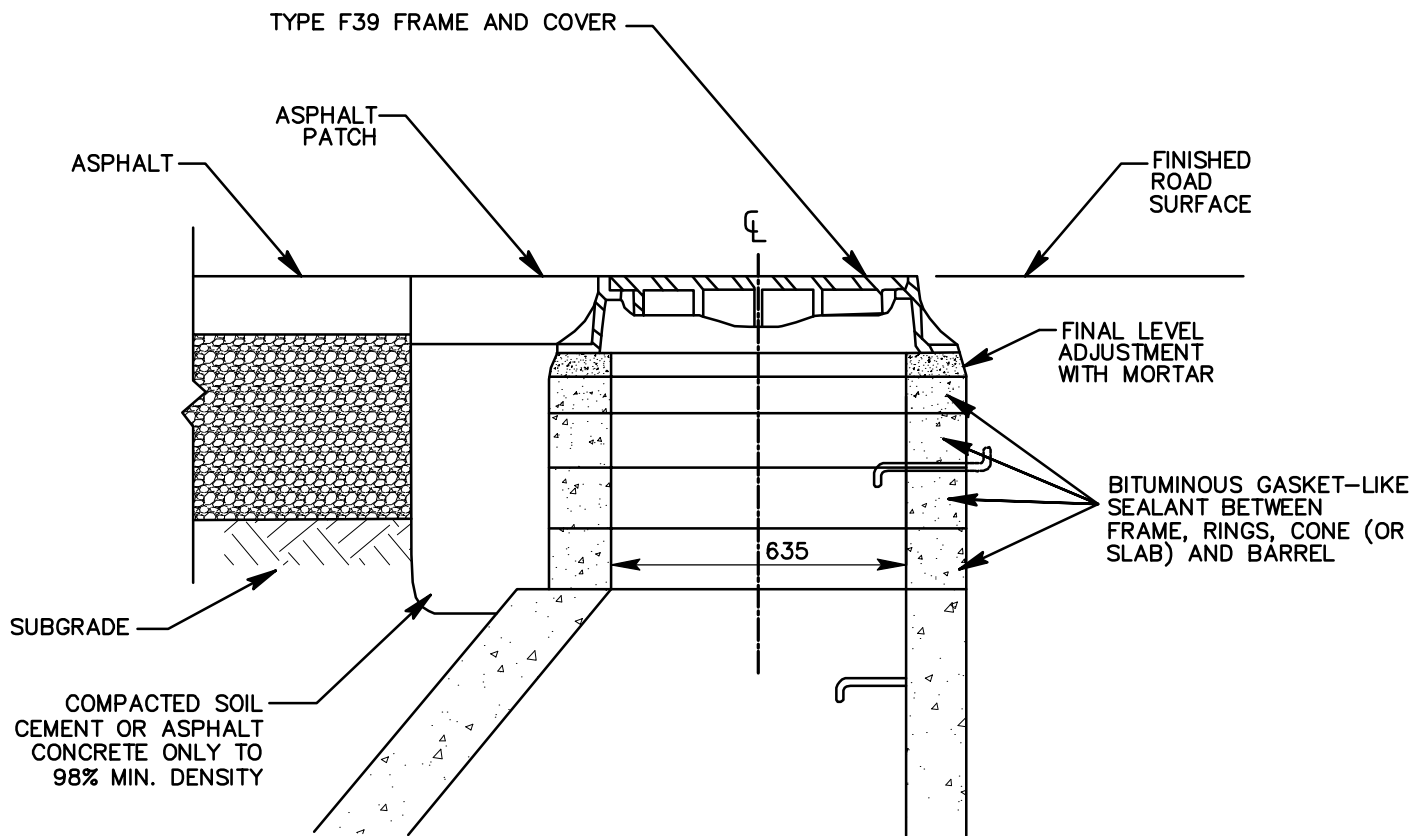
- NOTES:
1. THIS STANDARD APPLIES TO MANHOLES ON PIPING OF MAXIMUM DIAMETER 600mm AND MINIMUM DEFLECTION ANGLE OF 120°.
 2. 1500mm MANHOLE SHALL BE USED ON PIPING DIAMETER 750mm, 900mm AND 1050mm. FOR PIPE DIAMETER 1200mm AND LARGER, MANHOLE TEE RISERS SHALL BE USED.
 3. PREBENCHED MANHOLE BASE UNITS WITH INTEGRAL GASKETS SHALL BE USED.
 4. THE SEWER PIPING IS AN EXAMPLE ONLY, REFER TO PROJECT DRAWINGS FOR LAYOUT AND ELEVATIONS.
 5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
 6. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD 1200mm MANHOLE	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-06
Date: 2009-04-16	Drawn:	Scale NTS		




NOTES:

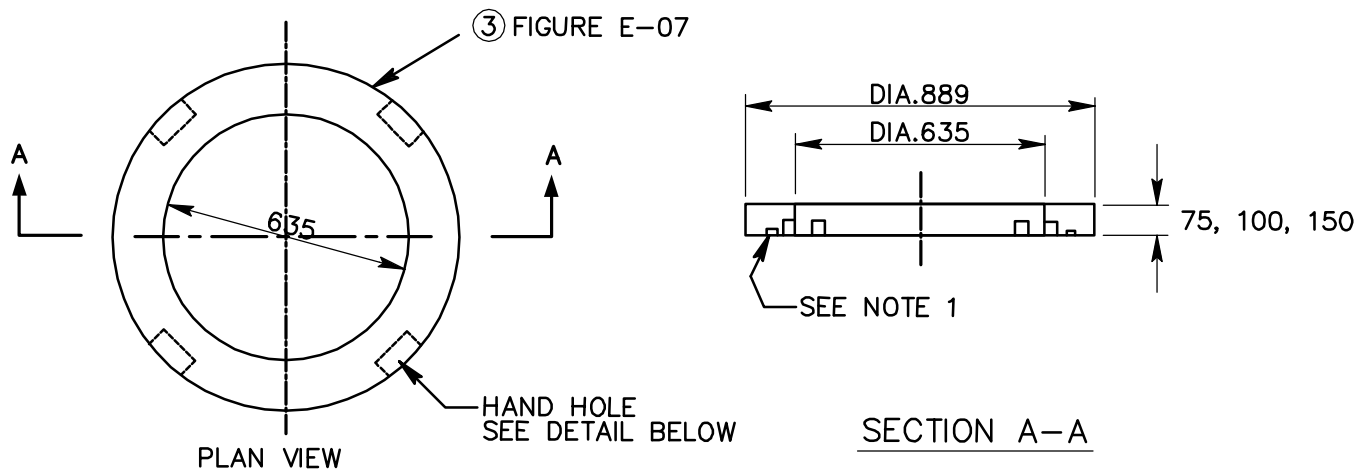
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

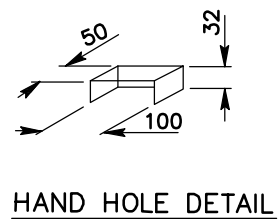
General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	NECK SECTION DETAILS FOR STANDARD 1200 MANHOLE	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		



635 RING
 (NECK RING FOR USE WITH TYPES 4A, 6, 6A, 8, NF-80, NF-90
 FRAMES AND COVERS/GRATINGS)



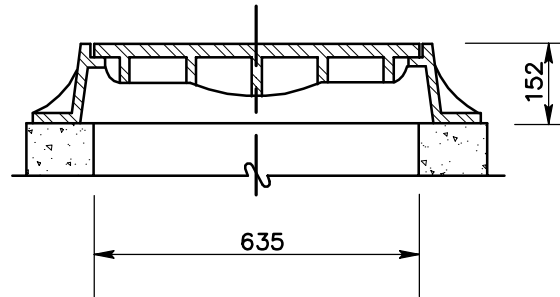
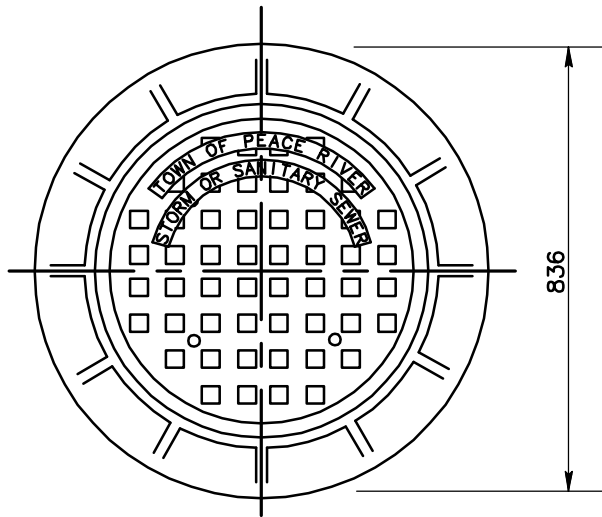
- NOTES:
1. A CONCENTRIC GROOVE LOCATED AT MID CROSS SECTION, SUITABLE FOR SEALANT IS REQUIRED FOR NECK RINGS AND EXTENSION RINGS.
 2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
 3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	635 NECK RING	
Rev.		File No.: GP6033068	Design:	Approved:
Rev.		Drawn: TLB	Scale: NTS	Figure: E-08
Date: 2009-04-16				



MATERIAL:
FRAME: GREY IRON F39
COVER: GREY IRON F39


NOTES:

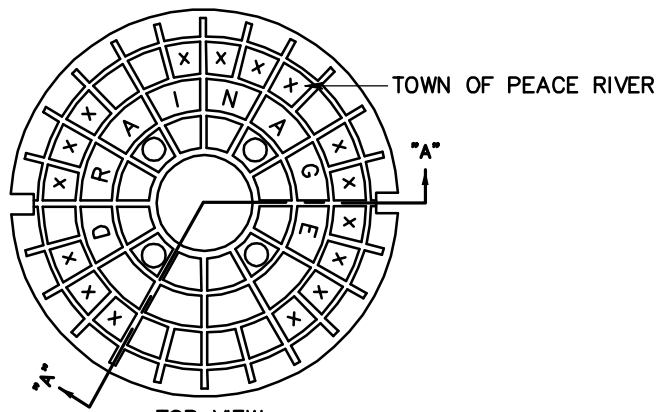
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.
3. NOT GENERALLY APPLICABLE IN PEACE RIVER. TO BE USED ONLY WHEN DIRECTED BY MUNICIPALITY.

TOWN OF PEACE RIVER

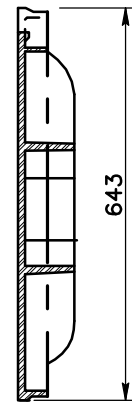
General Municipal Servicing Standards



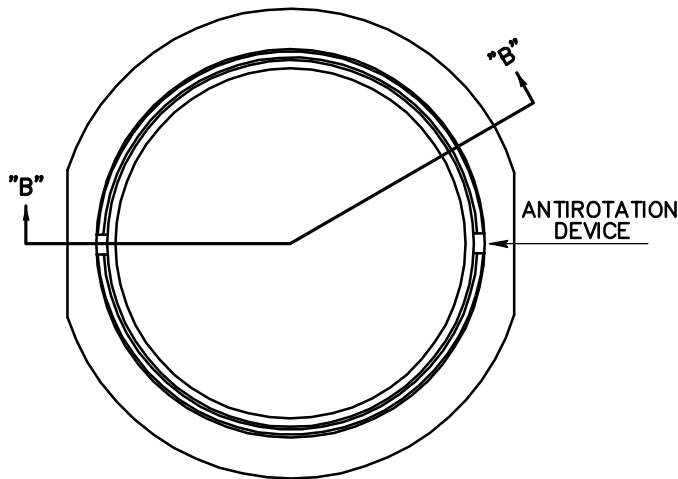
Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPE F39 COVER AND FRAME	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-09
Date: 2009-04-16	Drawn:	Scale NTS		



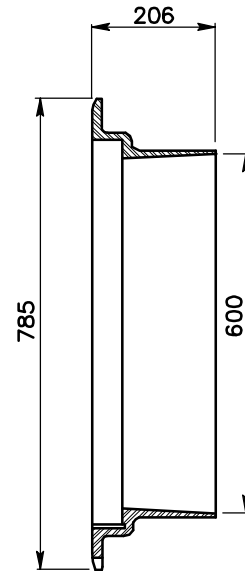
TOP VIEW
MANHOLE COVER
WITH 4 VENTHOLES



SECTION "A-A"



PLAN



SECTION "B-B"


NOTES:

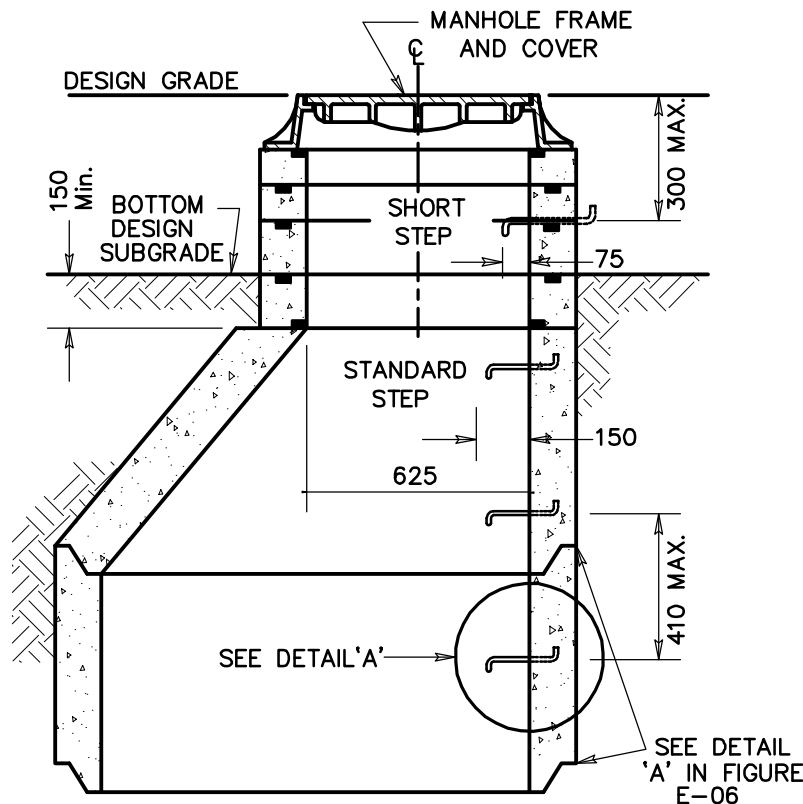
1. MATERIAL SPECIFICATION:
DUCTILE IRON TO CONFORM TO A.S.T.M. A536 (LATEST EDITION) GRADE 80-60-03.
2. NF-90 FRAME AND COVER IS WATERTIGHT VARIATION OF NF-80.
THERE ARE NO VENTING HOLES IN NF-90 COVER AND A GASKET IS PLACED BETWEEN THE FRAME AND COVER.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

TOWN OF PEACE RIVER

General Municipal Servicing Standards

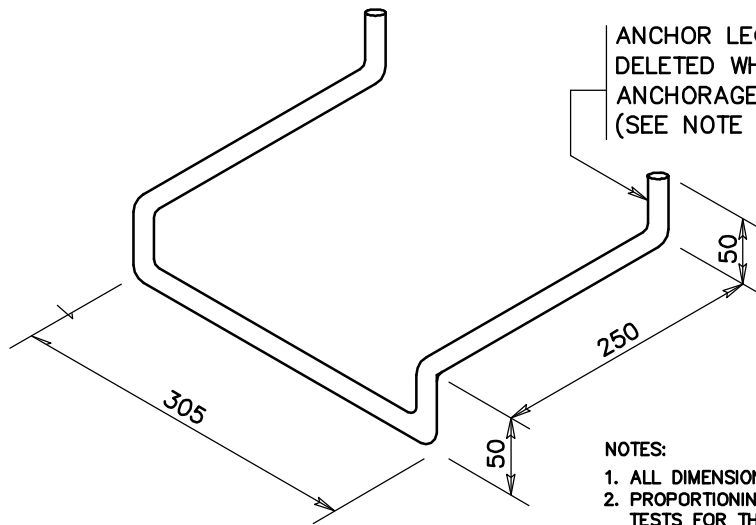


Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	FLOATING MANHOLE FRAME AND COVER TYPE NF-80 AND NF-90	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-10
Date: 2009-04-16	Drawn:	Scale NTS		



TYPICAL MANHOLE SECTION

DETAIL 'A'



NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

PLACEMENT:

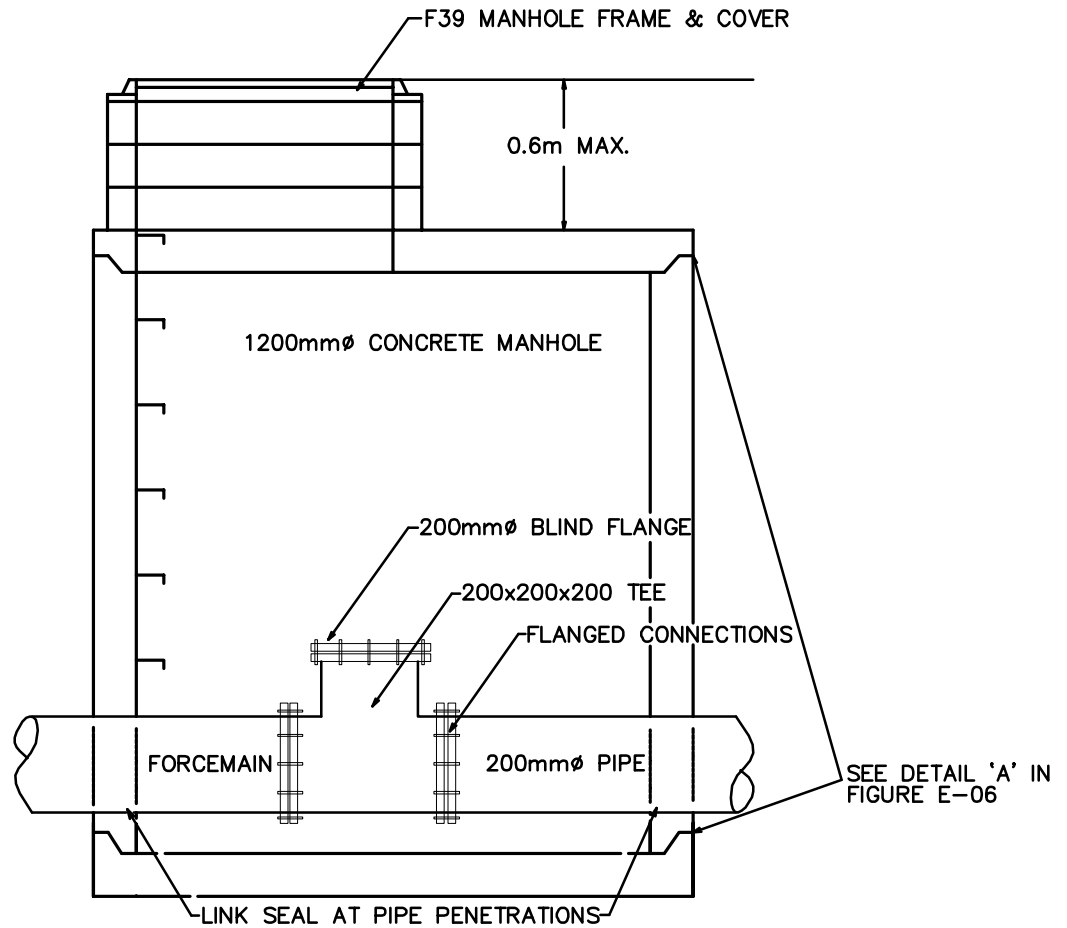
1. EXCEPT WHERE SPECIFIED OTHERWISE, SAFETY STEPS SHALL BE INSTALLED IN ALL PRECAST MANHOLE SECTIONS & CONES, IN THE GRADE ADJUSTMENT SECTIONS AND IN CAST IN PLACE SECTIONS SO THAT WHEN THE VARIOUS SECTIONS ARE ASSEMBLED IN ANY COMBINATION THEY WILL FORM A CONTINUOUS VERTICAL LADDER WITH RUNGS EQUALLY SPACED AT A MAXIMUM OF 410mm TO WITHIN 300mm BELOW THE COVER AND TO WITHIN 600mm OF THE BASE OR BENCHING.
2. STEPS SHALL BE CAST FIRMLY IN PLACE OR SECURED WITH A SUITABLE MECHANICAL ANCHORAGE TO PREVENT PULLOUT, AND MAINTAIN WATER TIGHTNESS.
3. "STANDARD STEPS" SHALL PROJECT A DISTANCE OF 150mm MEASURED AT THE POINT OF EMBEDMENT.
4. A "SHORT STEP" WITH A PROJECTION OF 75mm SHALL BE INSTALLED WITHIN THE GRADE ADJUSTMENT SECTION, CAST INTO THE NECK OR FIRMLY MORTARED IN PLACE BETWEEN THE NECK RINGS, WITH THE ANCHOR LEGS OUTSIDE OF THE NECK RING.
5. EXCEPT AS SPECIFIED ABOVE, DESIGN AND INSTALLATION OF SAFETY STEPS SHALL CONFORM TO A.S.T.M. C478.
6. SAFETY STEPS SHALL BE ALIGNED ON CENTRELINE PERPENDICULAR TO THE MAIN FLOW CHANNEL. WHENEVER POSSIBLE, THE STEPS SHALL BE ALIGNED SO THAT A PERSON EXITING THE MANHOLE WOULD FACE ONCOMING TRAFFIC IF NOT CONFLICTING WITH THE PREVIOUS REQUIREMENT.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>SAFETY STEPS FOR MANHOLES</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-11
Date: 2009-04-16	Drawn:	Scale NTS		




NOTES:

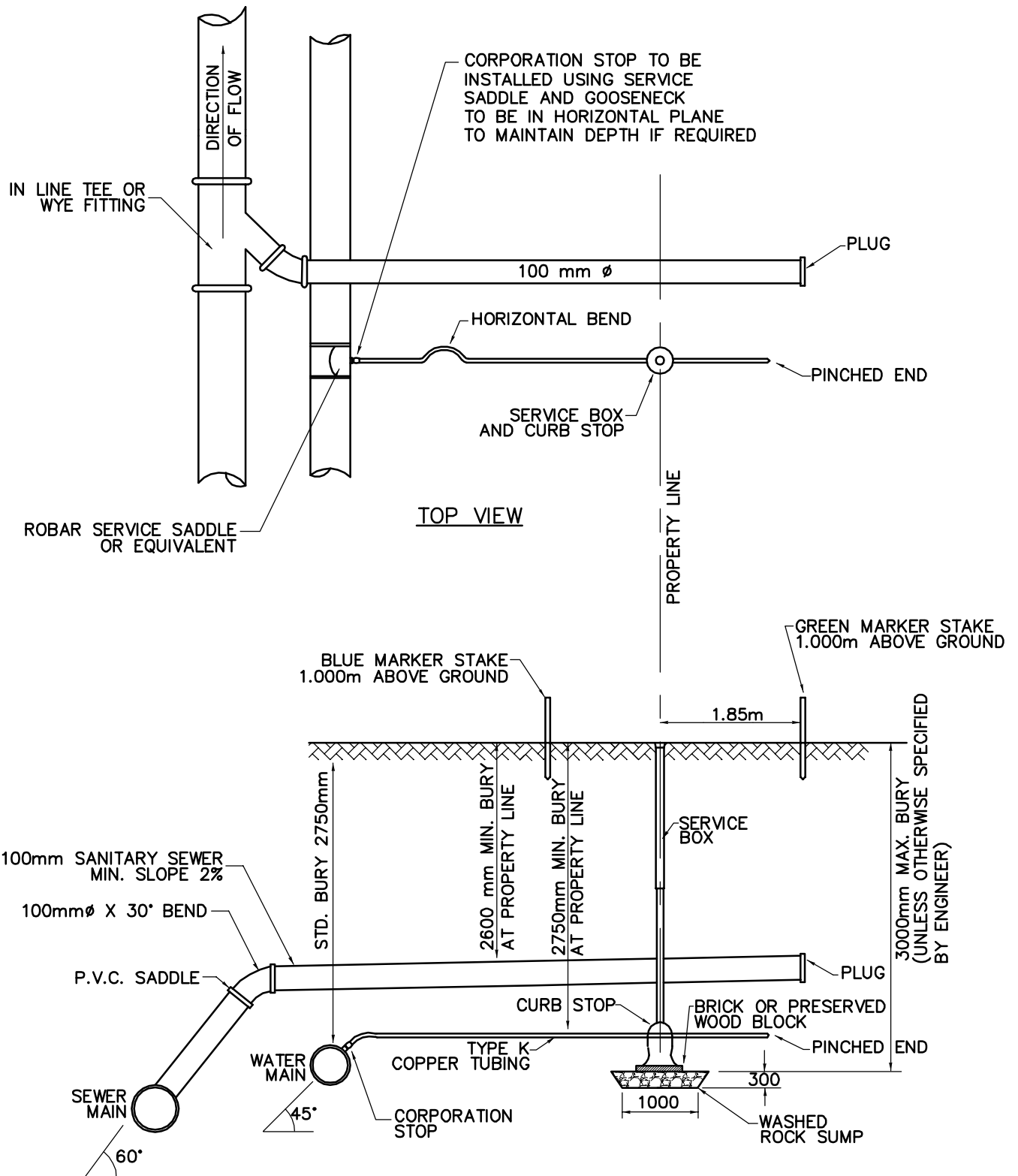
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PIGG PORT / CLEANOUT	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-13
Date: 2009-04-16	Drawn:	Scale NTS		




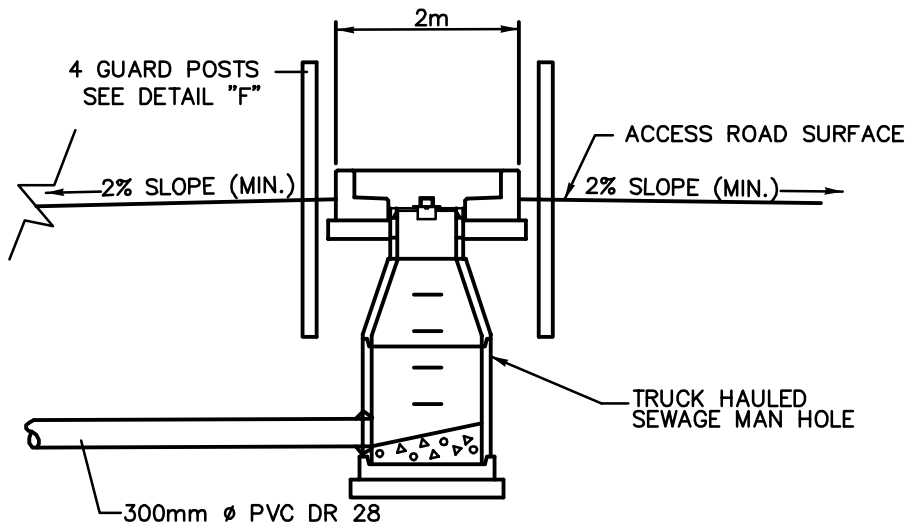
NOTE:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

TOWN OF PEACE RIVER

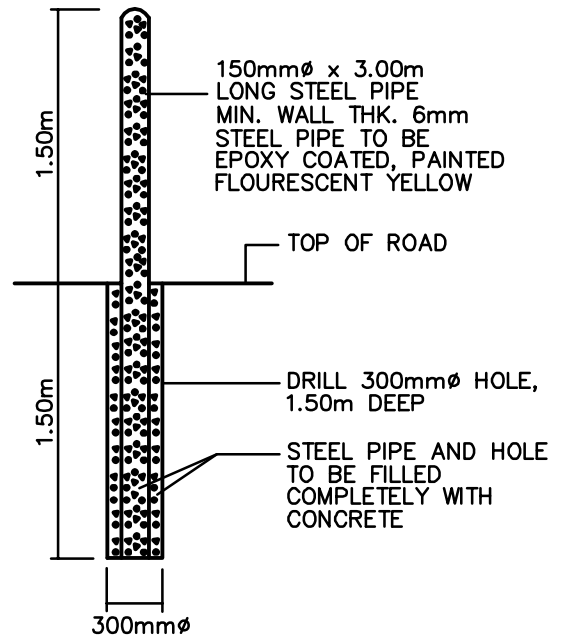
General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>SERVICE CONNECTION</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-14
Date: 2009-04-16	Drawn: GGB	Scale: NTS		



DETAIL - GUARD POSTS



DETAIL "F" - GUARD POST


NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

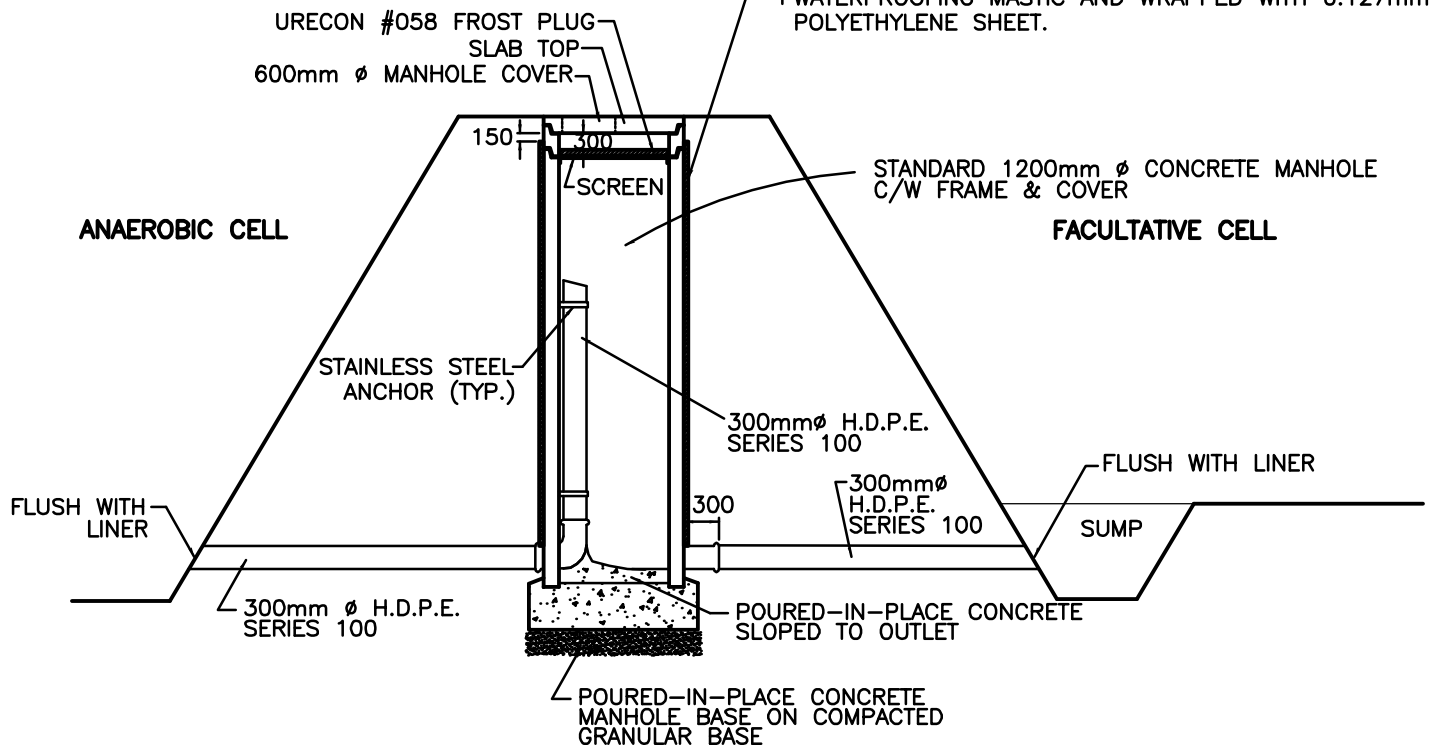
TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>GUARD POSTS</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-15
Date: 2009-04-16	Drawn: OM	Scale: NTS		

URECON ELFOAM T-20 RIGID FOAM BOARD,
 WRAP TWO 25mm THICK LAYERS AROUND MANHOLE.
 13mm NYLON BANDING STRAPS SPACED 400mm MAX.
 APART TO HOLD ELFOAM IN PLACE ON MANHOLE
 ALL JOINTS BETWEEN LAYERS TO BE STAGGERED.
 SEAL SEAMS WITH PORTAFOAM (URETHANE SPRAY)
 FOLLOWED BY APPLICATION OF BAKOR 110-14
 WATERPROOFING MASTIC AND WRAPPED WITH 0.127mm
 POLYETHYLENE SHEET.




NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

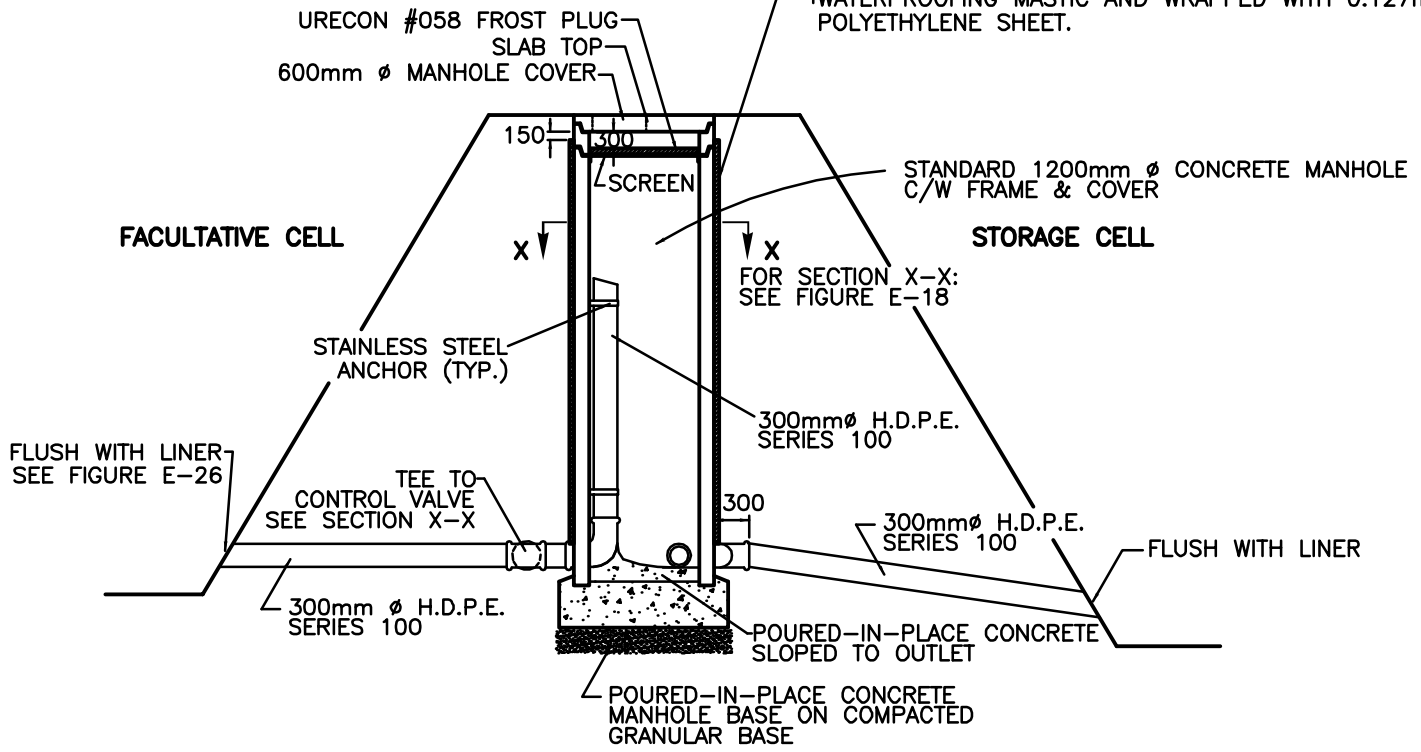
TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	OVERFLOW STRUCTURE FROM ANAEROBIC CELL TO FACULTATIVE CELL		
Rev.			File No.: GP6033068	Design:	Approved:
Rev.			Date: 2009-04-16	Drawn: OM	Scale: NTS

URECON ELFOAM T-20 RIGID FOAM BOARD,
 WRAP TWO 25mm THICK LAYERS AROUND MANHOLE.
 13mm NYLON BANDING STRAPS SPACED 400mm MAX.
 APART TO HOLD ELFOAM IN PLACE ON MANHOLE
 ALL JOINTS BETWEEN LAYERS TO BE STAGGERED.
 SEAL SEAMS WITH PORTAFOAM (URETHANE SPRAY)
 FOLLOWED BY APPLICATION OF BAKOR 110-14
 WATERPROOFING MASTIC AND WRAPPED WITH 0.127mm
 POLYETHYLENE SHEET.




NOTES:

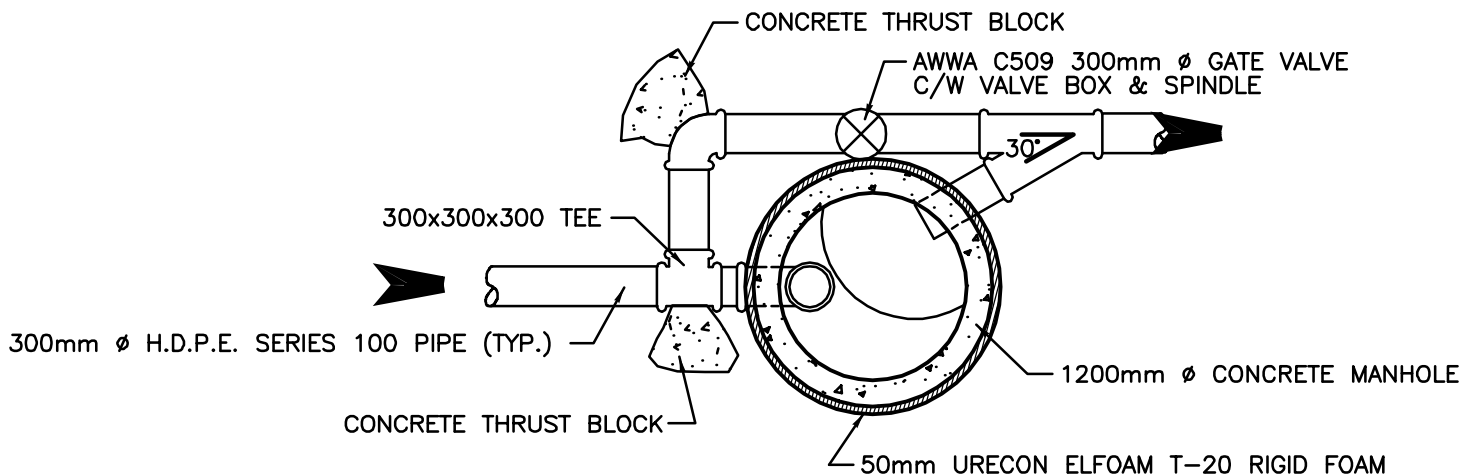
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CONTROL & OVERFLOW STRUCTURE FROM FACULTATIVE CELL TO STORAGE CELL	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-17
Date: 2009-04-16		Scale: NTS		




NOTES:

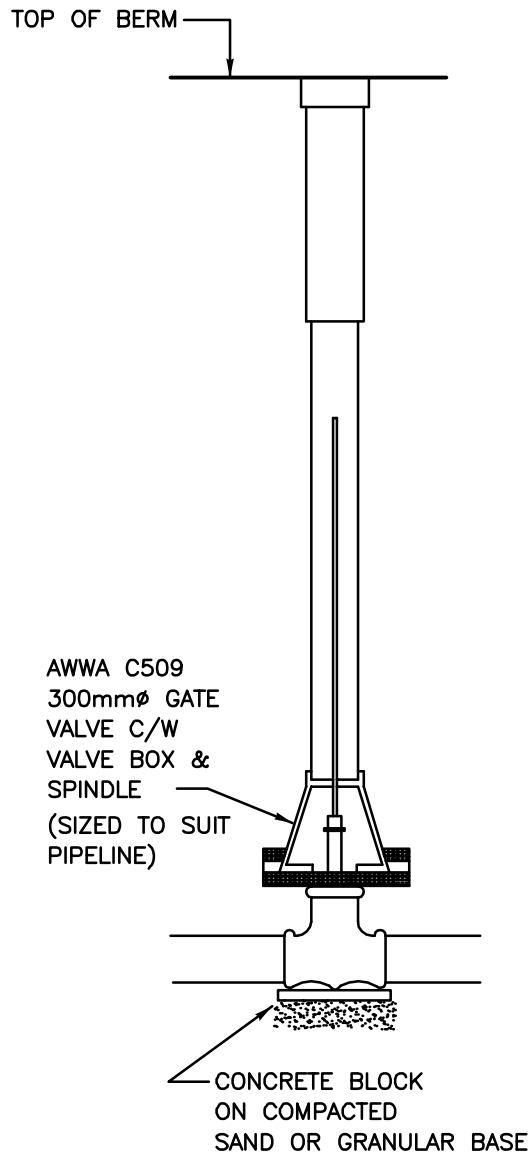
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SECTION X-X	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-18
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

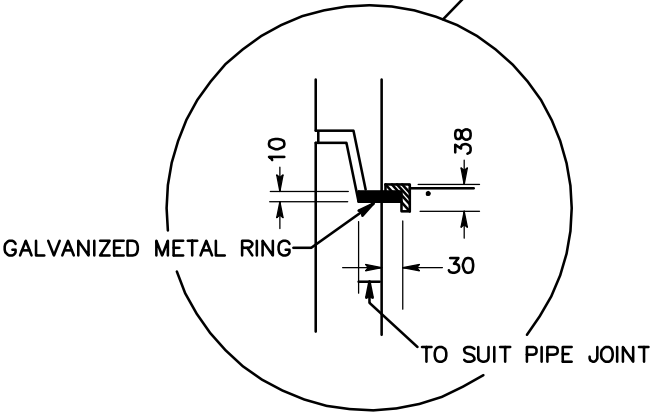
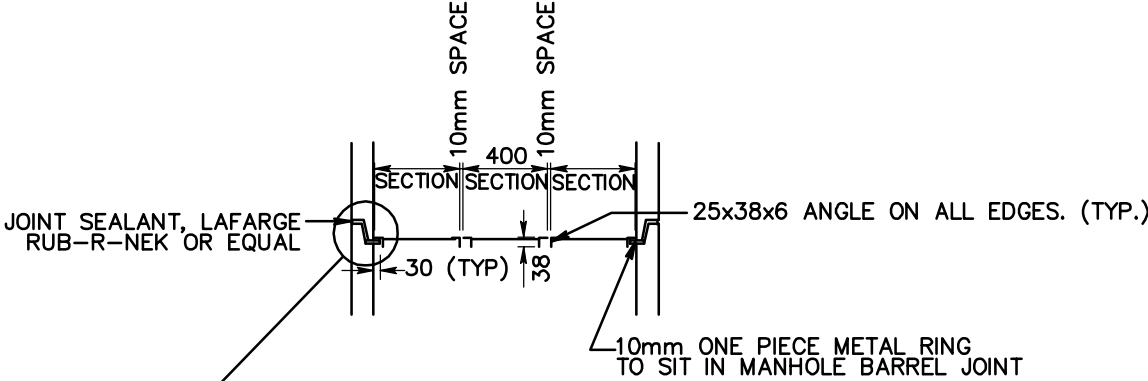
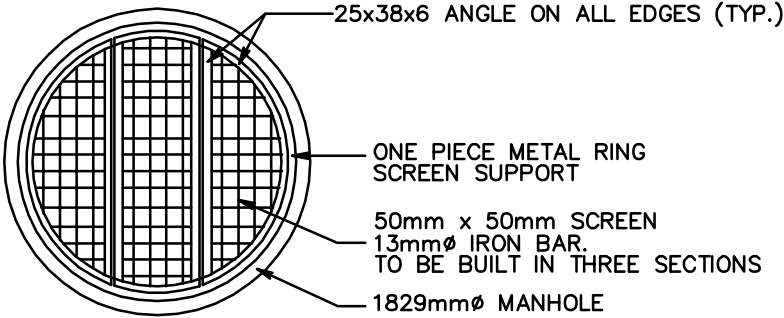
TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CONTROL GATE VALVE (TYPICAL)	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-19
Date: 2009-04-16	Drawn: OM	Scale: NTS		

ALL STEEL WORK TO BE HOT DIPPED GALVANIZED AFTER FABRICATION




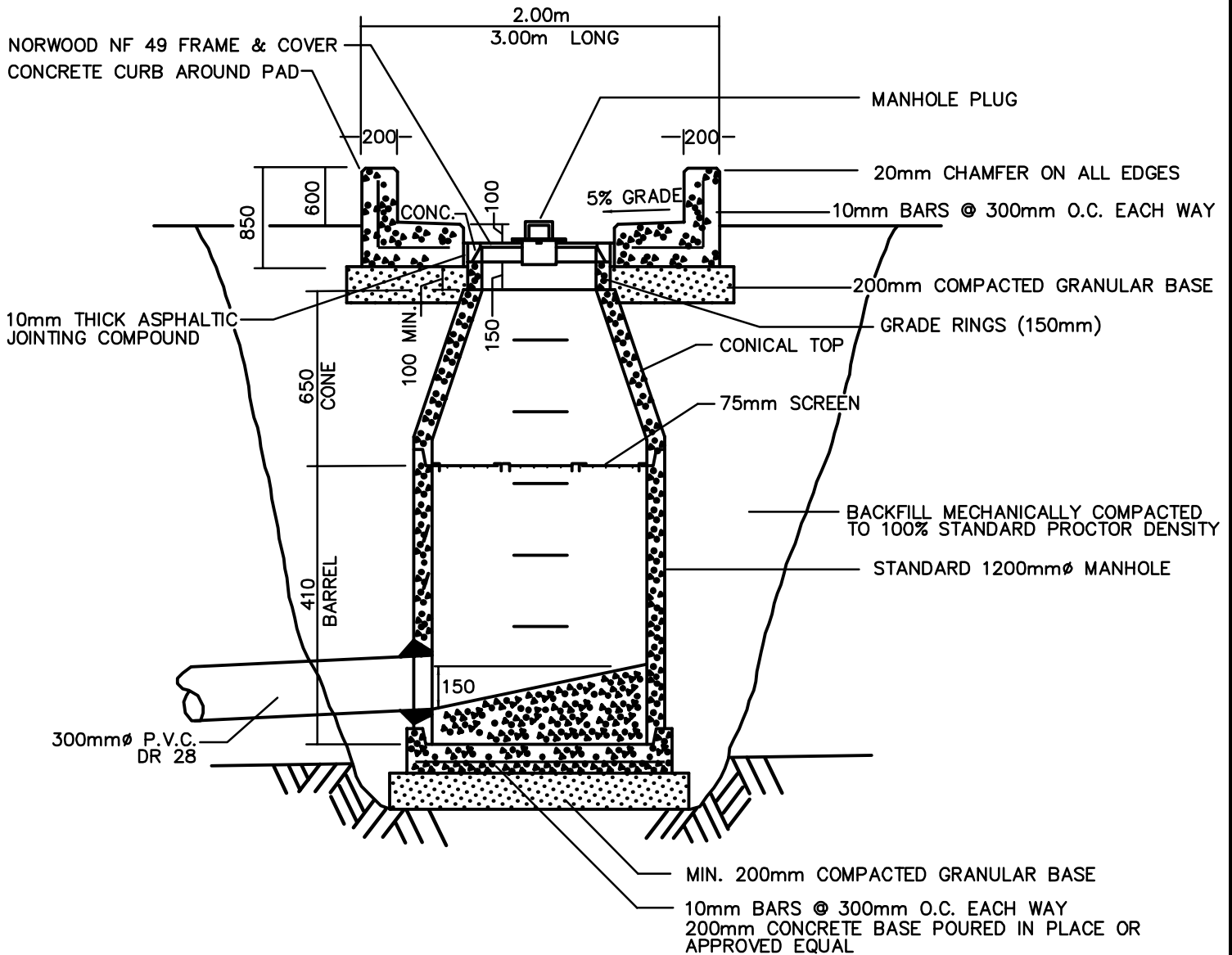
NOTE:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SCREEN FOR DUMPING STATION	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-21
Date: 2009-04-16	Drawn: JAD	Scale NTS		




NOTES:

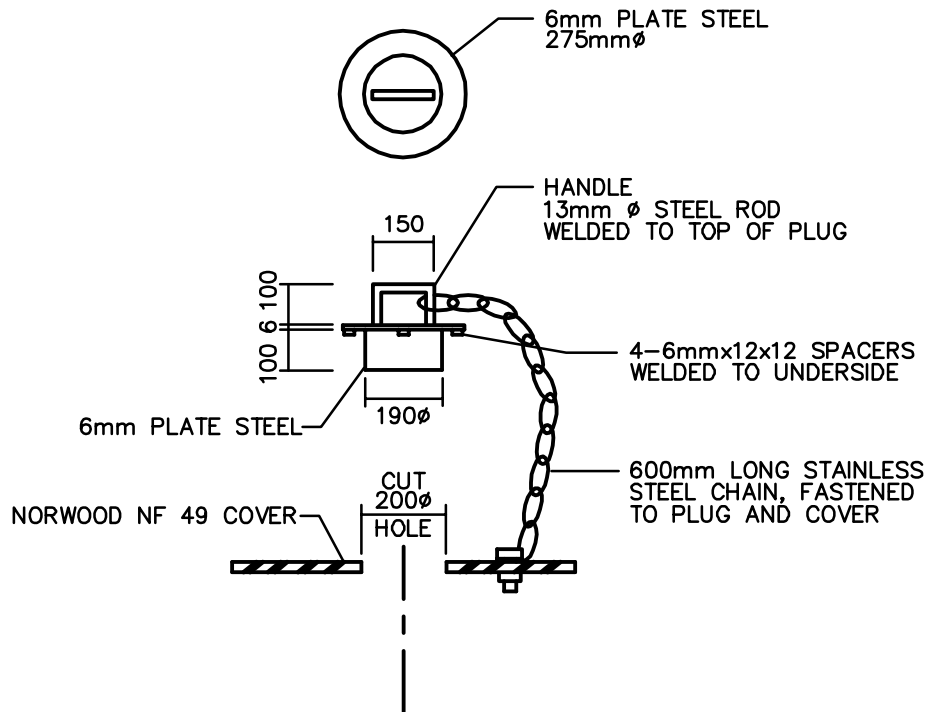
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	DUMPING TRUCK HAULED SEWAGE MANHOLE	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-22
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

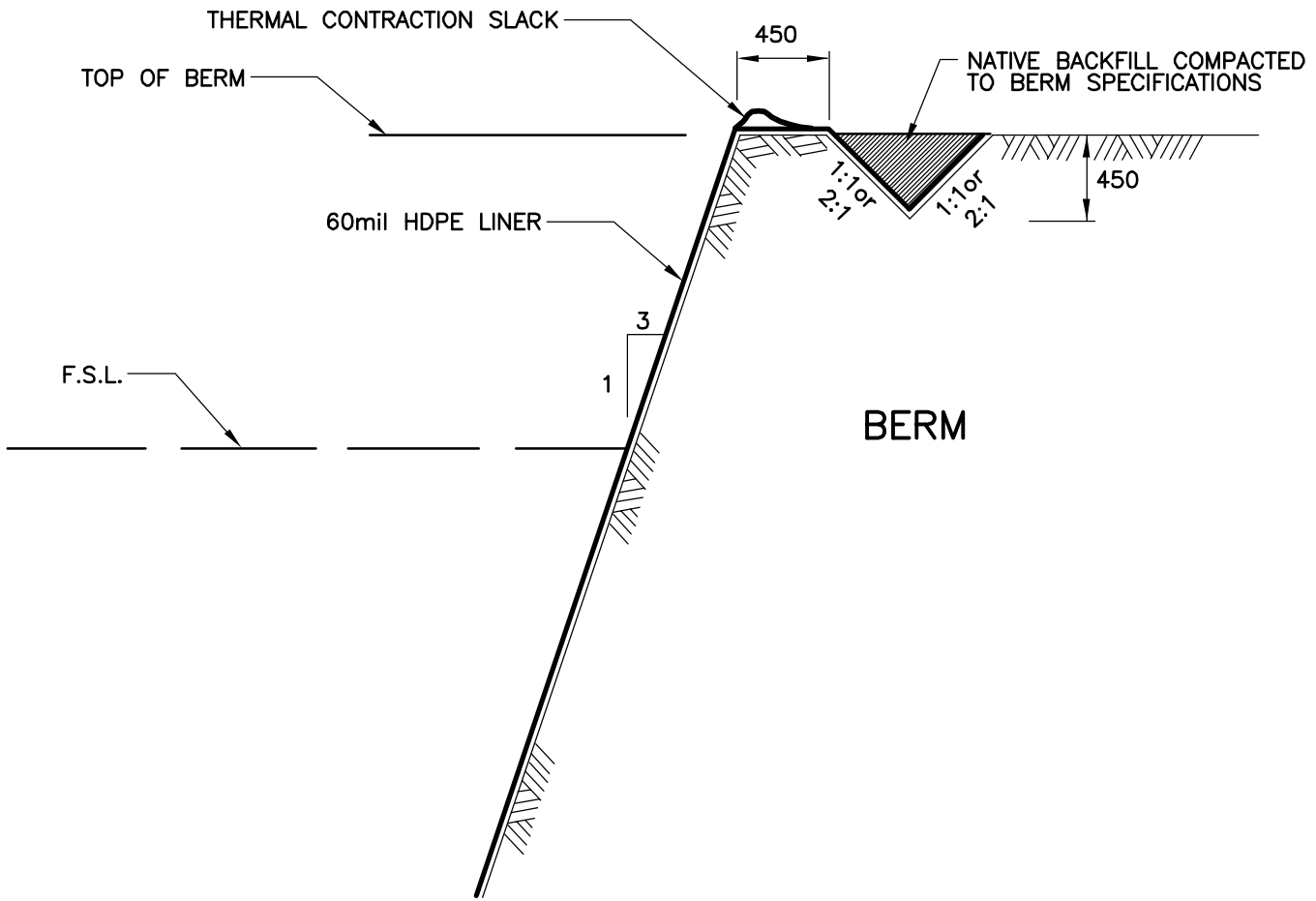
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>MANHOLE PLUG</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-23
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

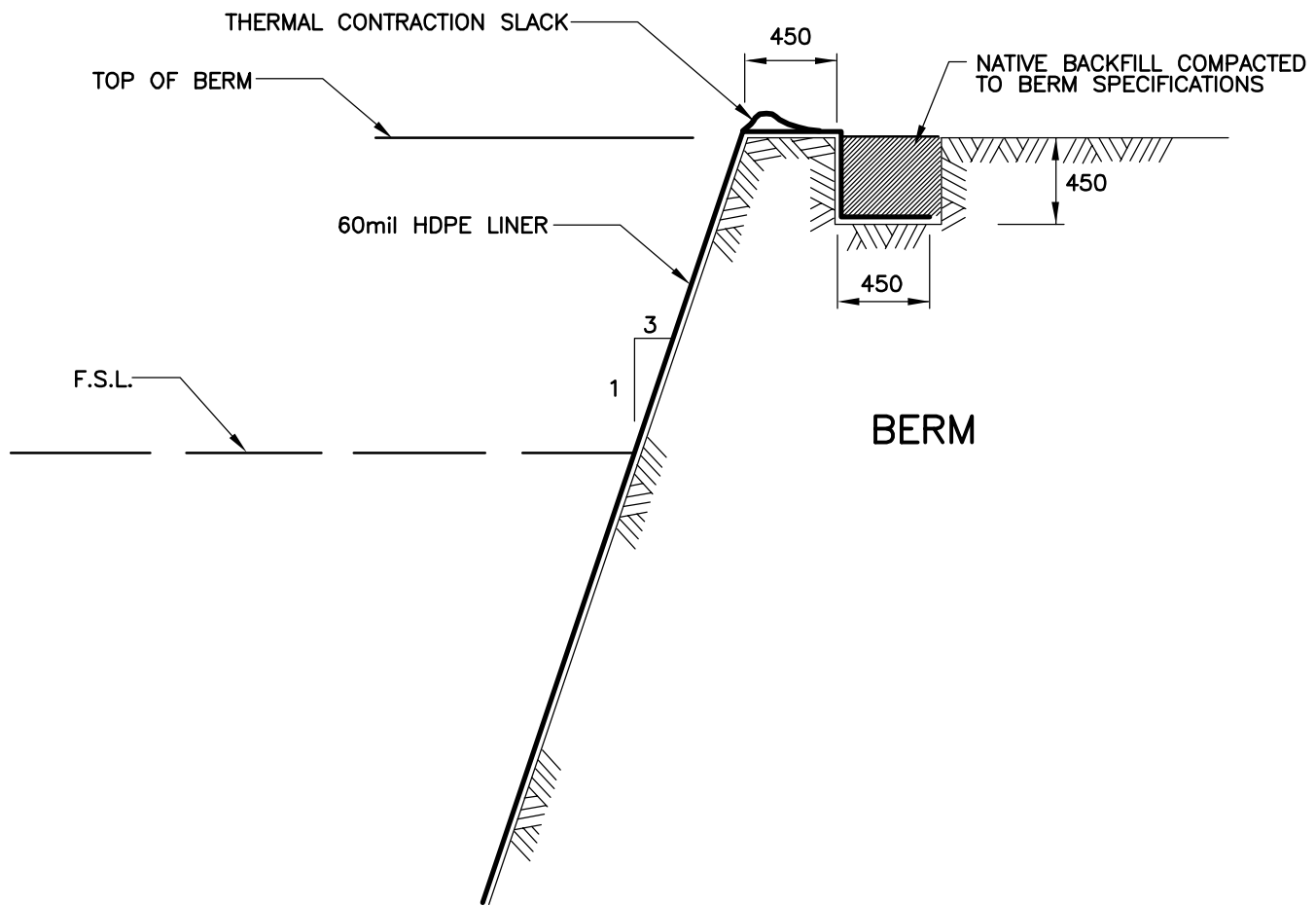
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>V-TYPE ANCHOR TRENCH</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-24
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

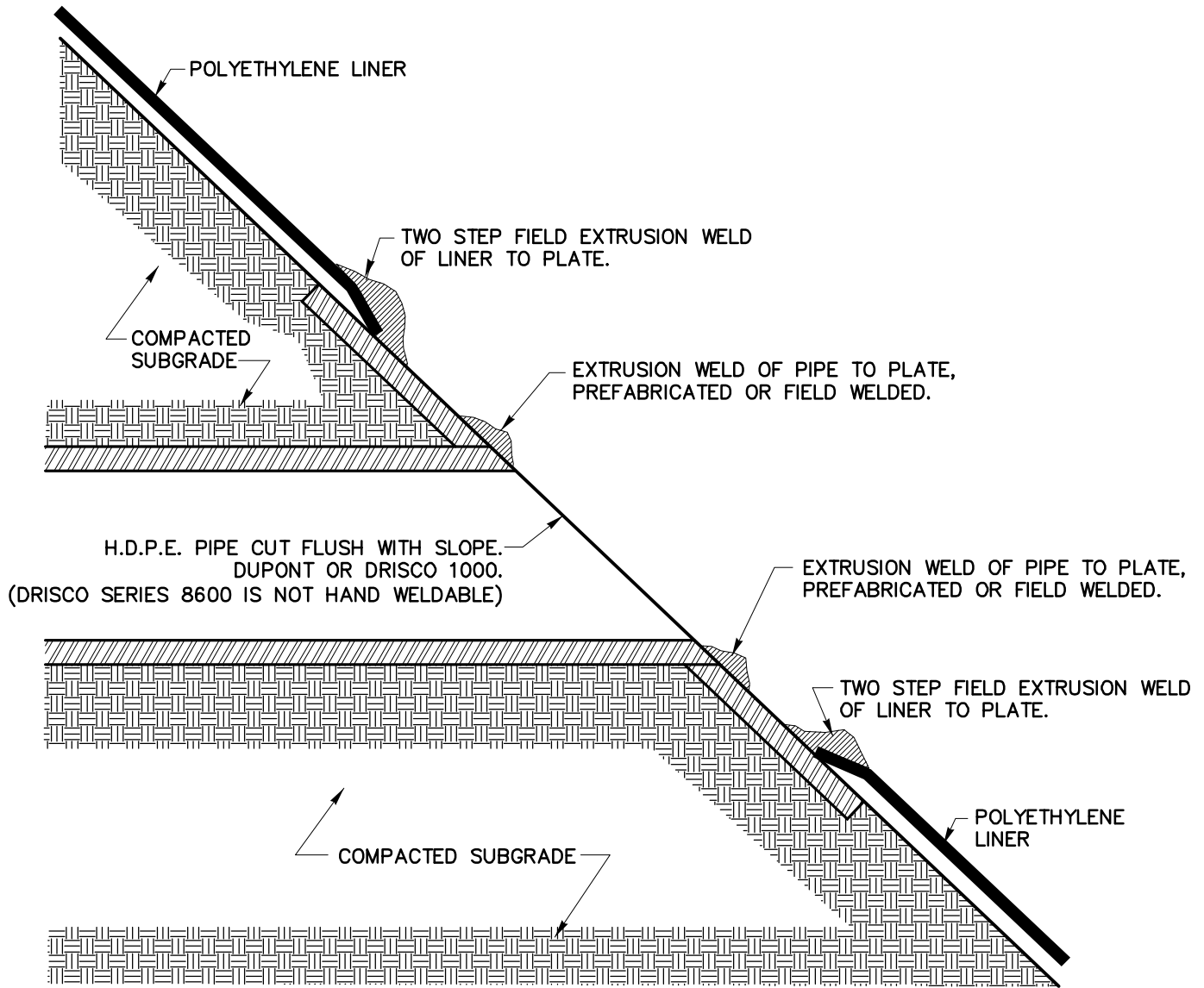
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards




Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>STANDARD ANCHOR TRENCH</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <h3>E-25</h3>
Date: 2009-04-16	Drawn: OM	Scale: NTS		



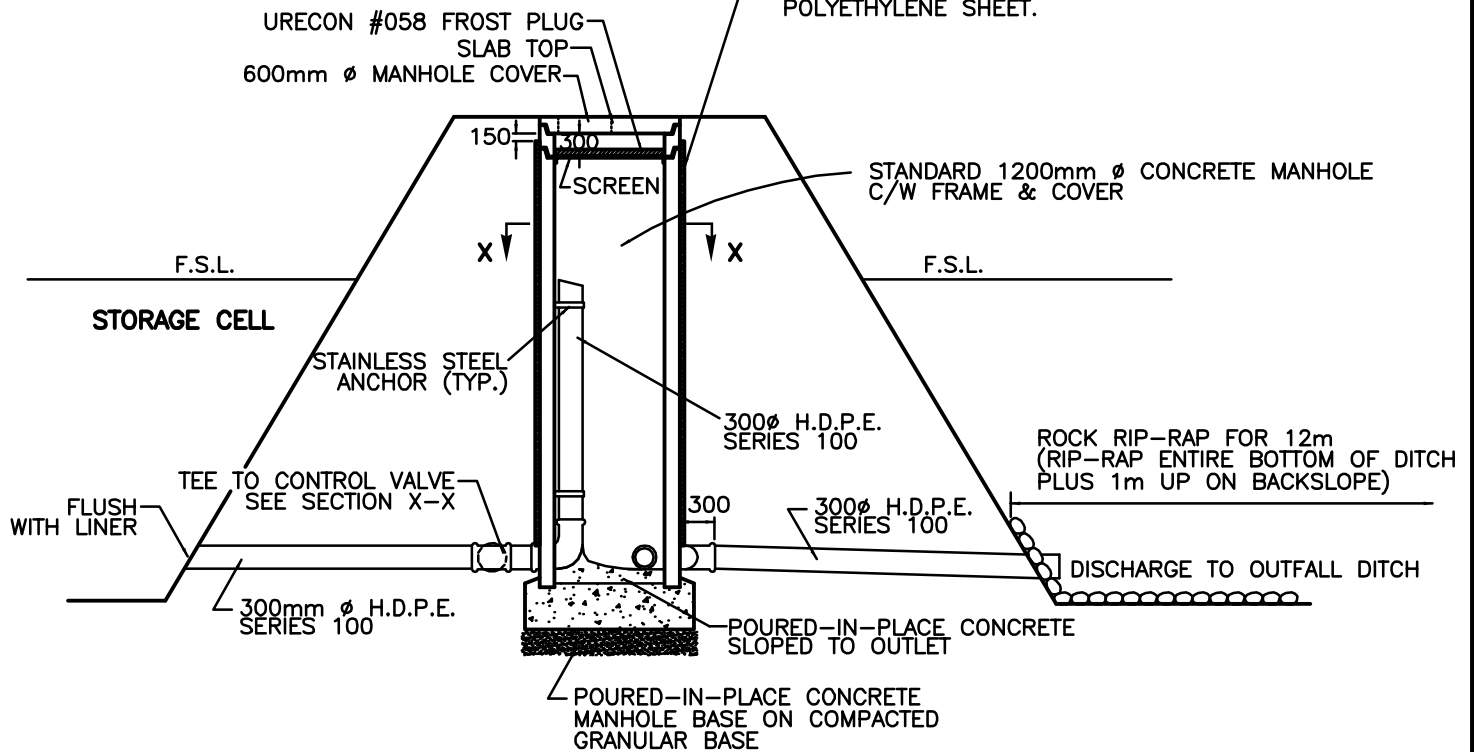
TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	H.D.P.E. PIPE PENETRATION WITH FLANGE PLATE	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn: OM	Scale: NTS		

URECON ELFOAM T-20 RIGID FOAM BOARD,
 WRAP TWO 25mm THICK LAYERS AROUND MANHOLE.
 13mm NYLON BANDING STRAPS SPACED 400mm MAX.
 APART TO HOLD ELFOAM IN PLACE ON MANHOLE
 ALL JOINTS BETWEEN LAYERS TO BE STAGGERED.
 SEAL SEAMS WITH PORTAFOAM (URETHANE SPRAY)
 FOLLOWED BY APPLICATION OF BAKOR 110-14
 WATERPROOFING MASTIC AND WRAPPED WITH 0.127mm
 POLYETHYLENE SHEET.




NOTES:

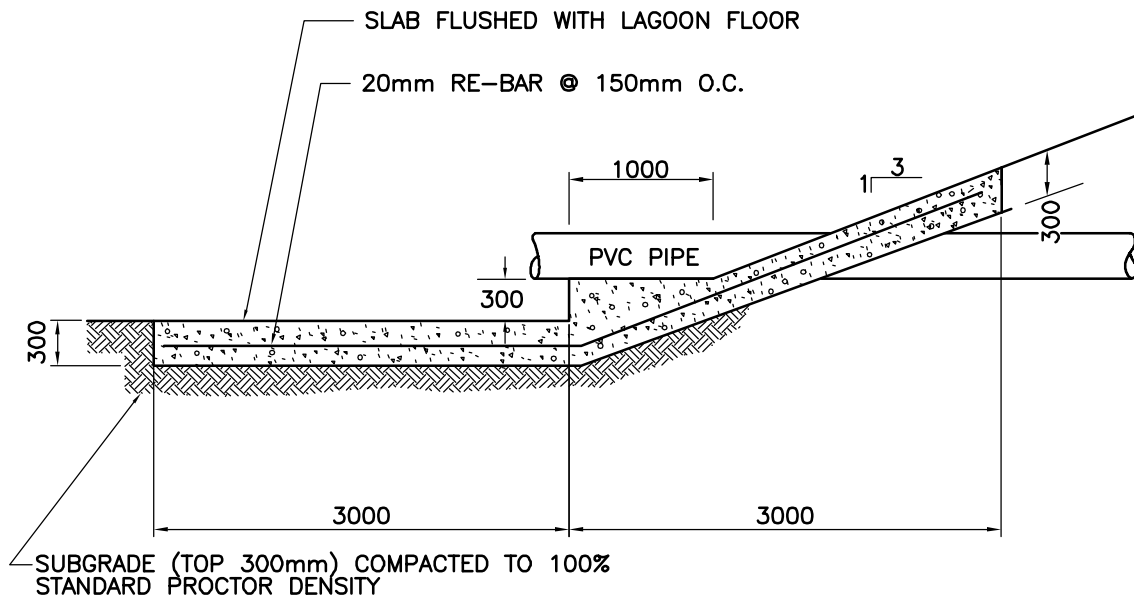
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.
3. SECTION 'X-X' - SEE FIGURE E-20.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	DISCHARGE OVERFLOW STRUCTURE FROM STORAGE CELL TO OUTFALL DITCH	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-27
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

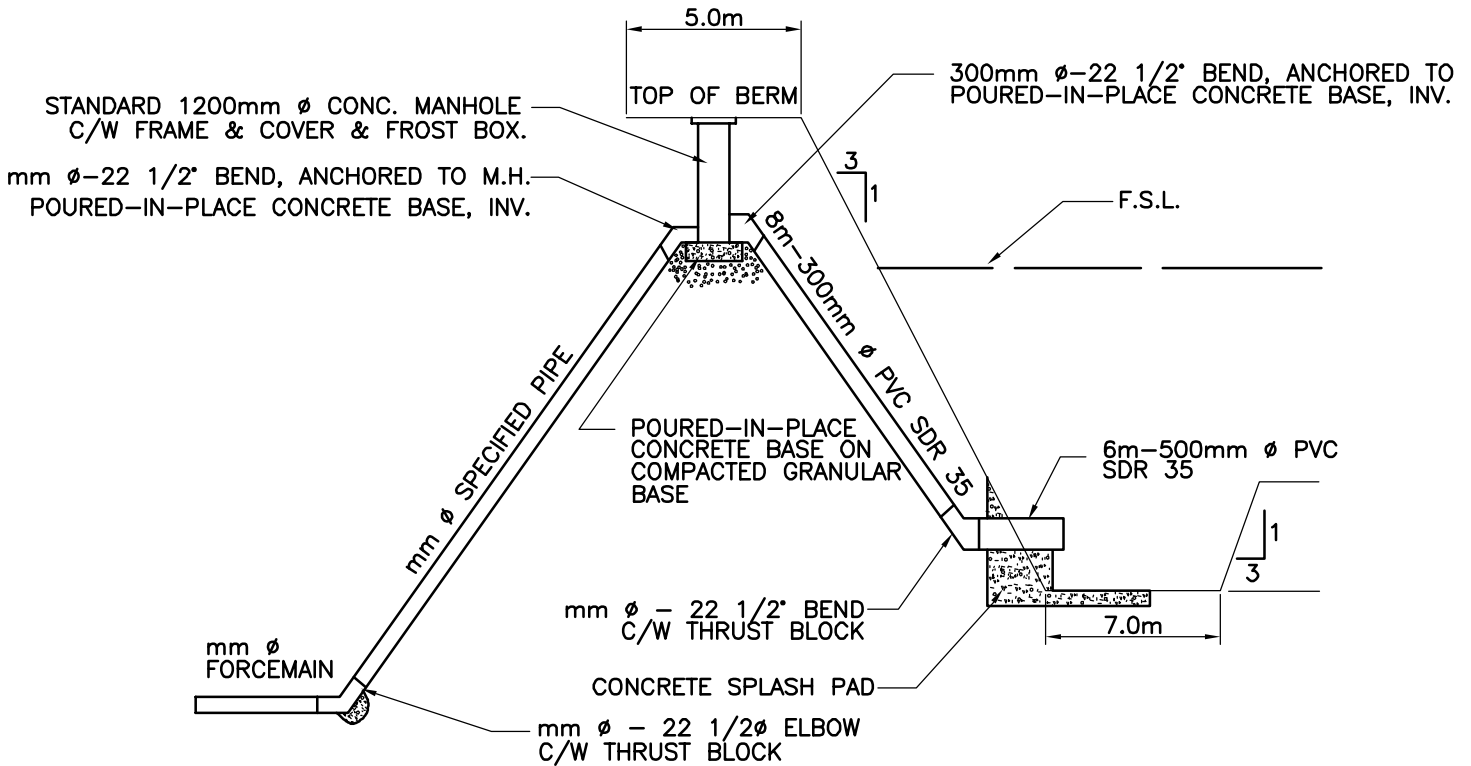
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.
3. CONCRETE THICKNESS 300mm UNLESS OTHERWISE STATED.
4. CONCRETE COMPRESSIVE STRENGTH MINIMUM 27.5 MPa @ 28 DAYS.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CONCRETE SPLASH PAD DETAILS	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-28
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

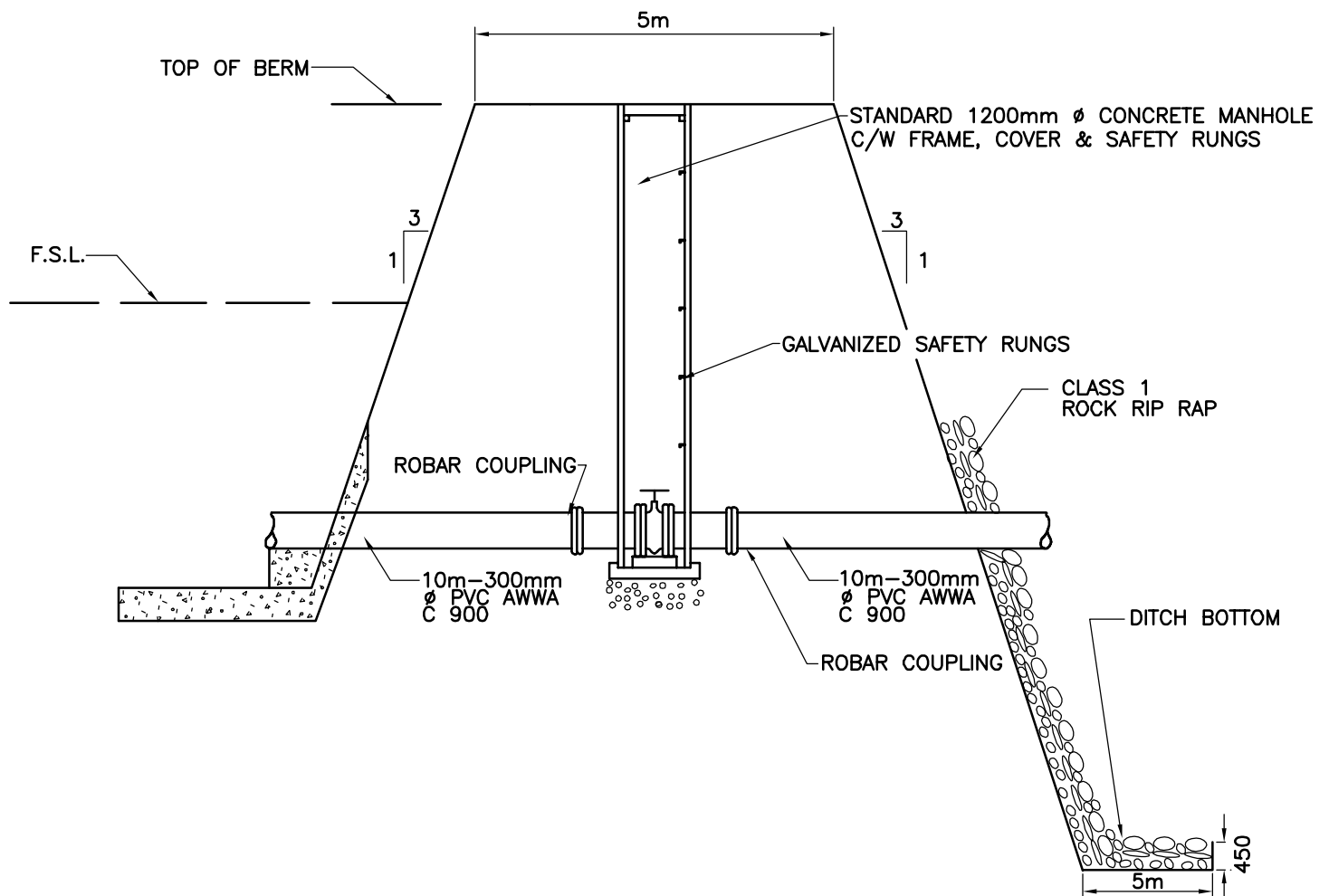
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>INLET MANHOLE DETAILS</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-29
Date: 2009-04-16	Drawn: OM	Scale: NTS		




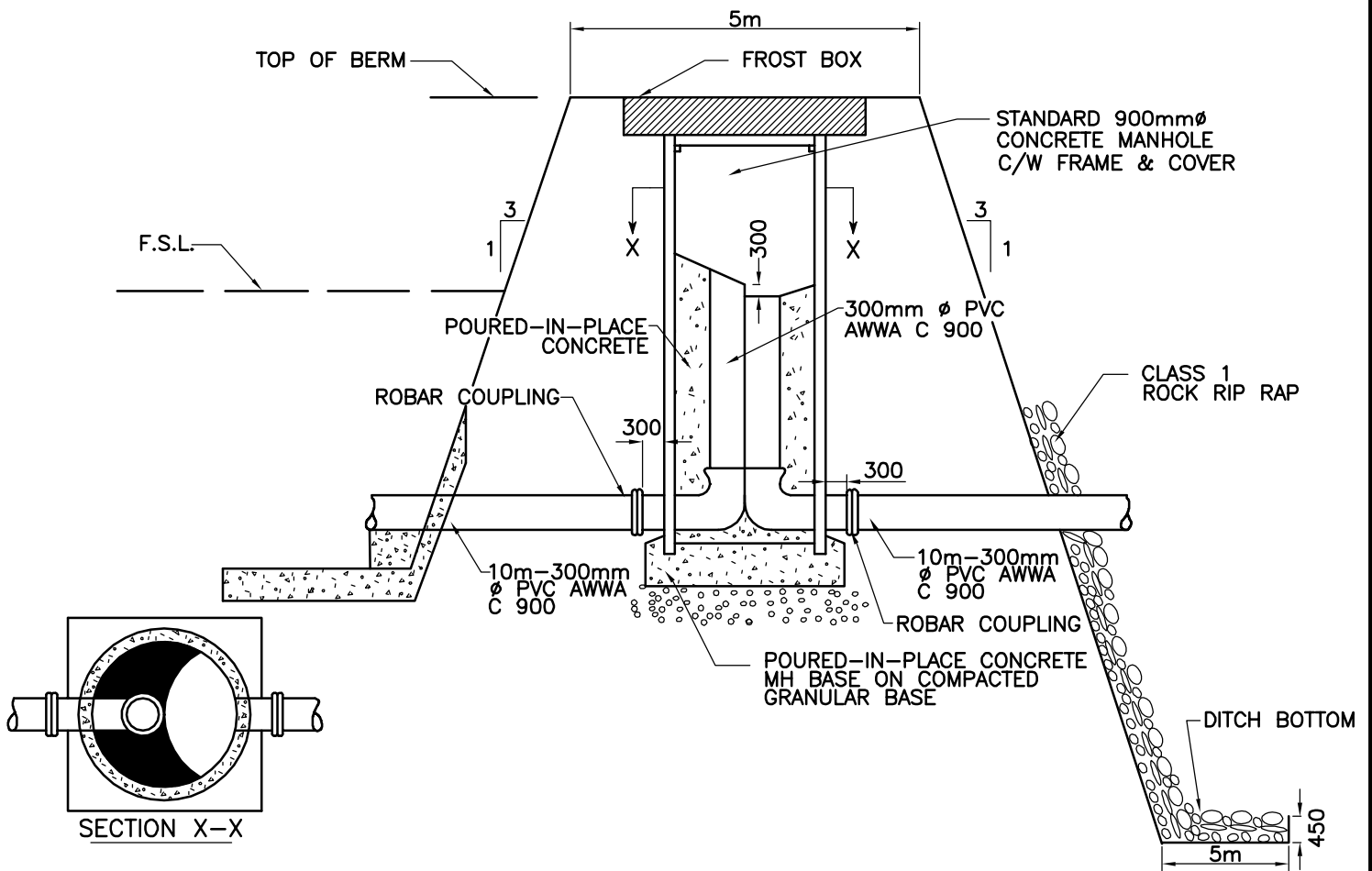
- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	DISCHARGE CONTROL DETAILS	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn: OM	Scale: NTS		E-30




NOTES:

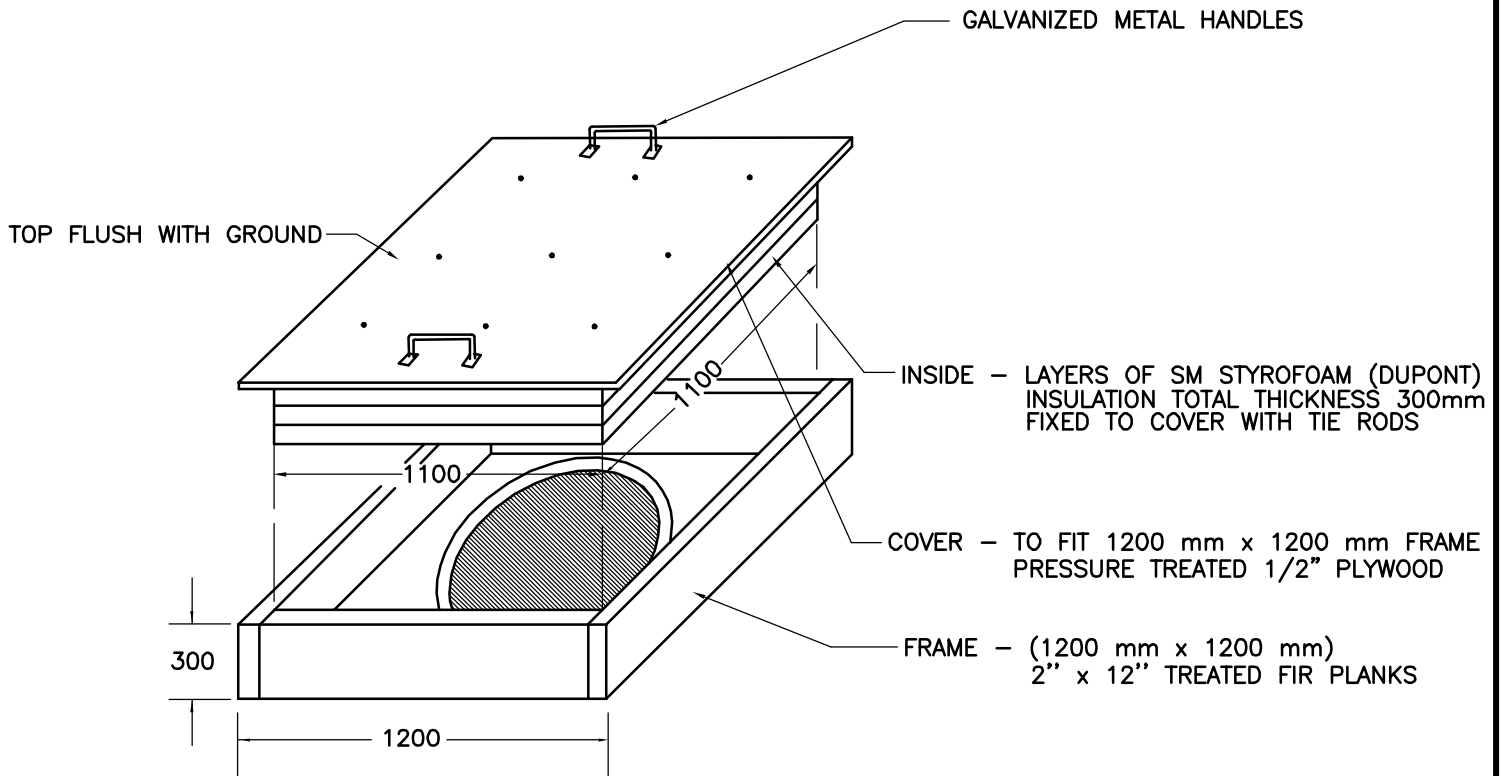
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	EMERGENCY DISCHARGE OVERFLOW MANHOLE DETAILS	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-31
Date: 2009-04-16	Drawn: OM	Scale: NTS		




NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

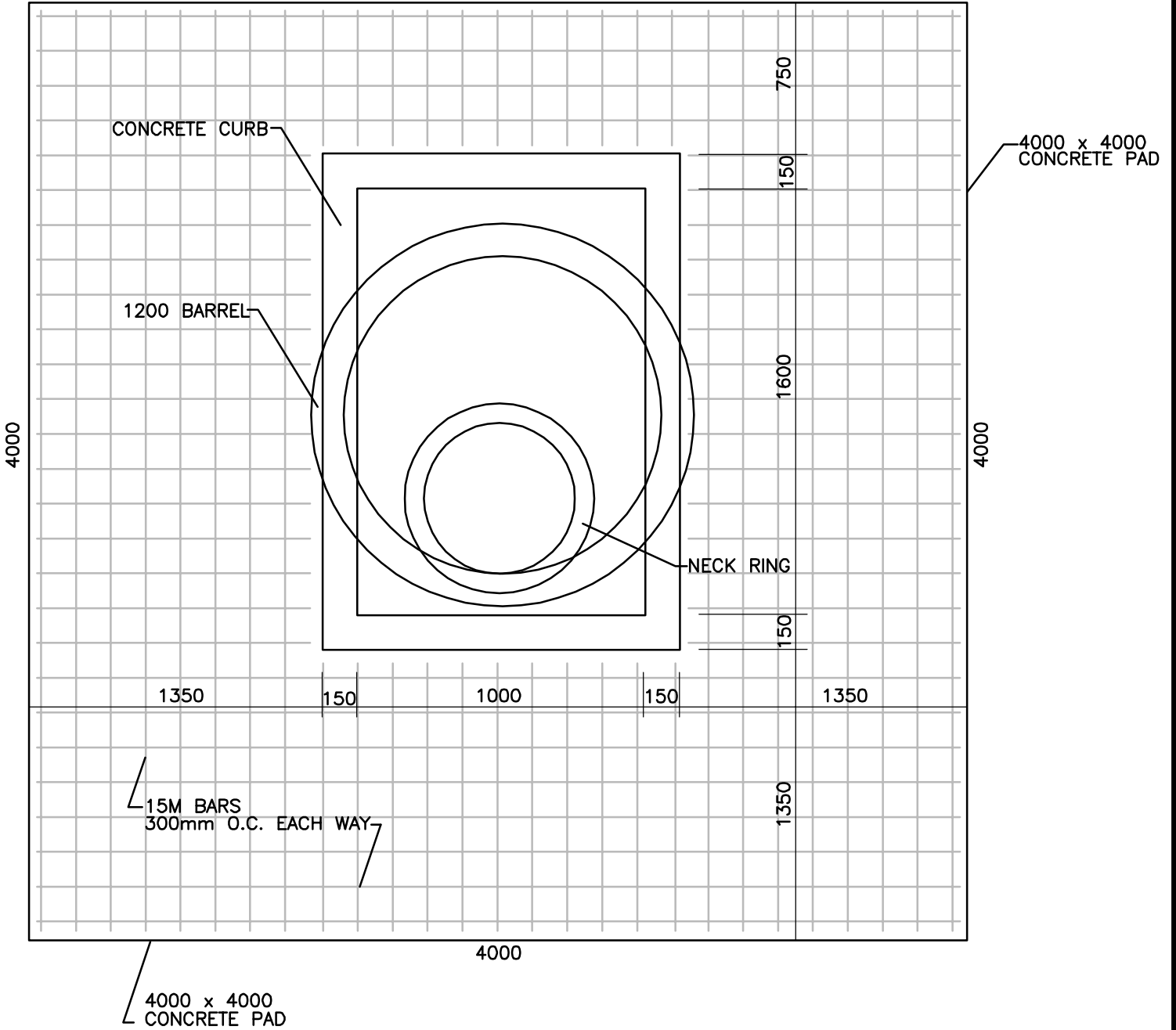
TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	FROST BOX DETAIL	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn: OM	Scale: NTS		E-32

4000




NOTES:

- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

TOWN OF PEACE RIVER

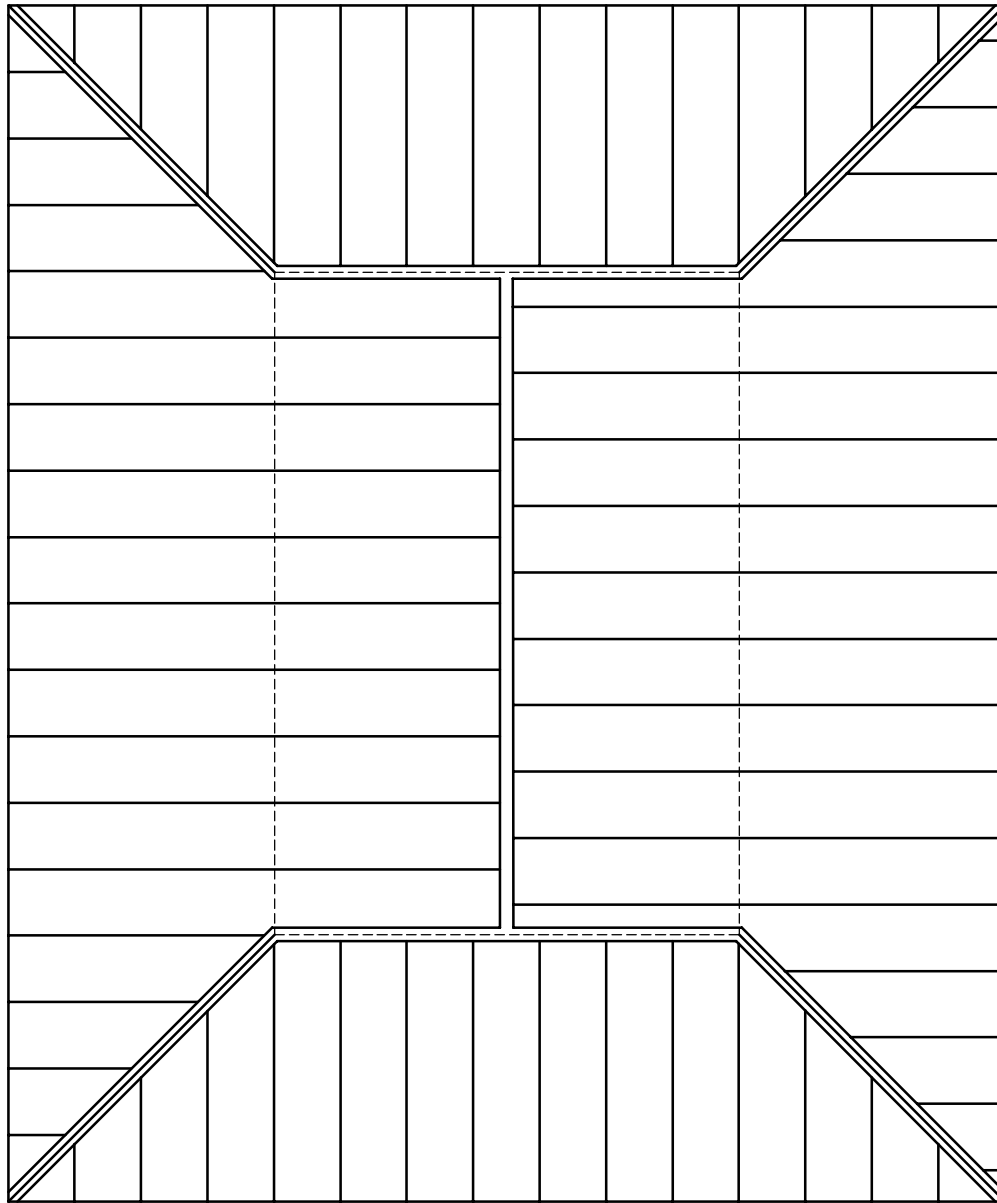
General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PLAN VIEW OF TRUCK HAULED SEWAGE DUMPING STATION	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-33
Date: 2009-04-16	Drawn: OM	Scale: NTS		

LEGEND


- FIELD SEAM
- ==== BUTT SEAM
- TOE OF SLOPE



TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL SHEET LAYOUT	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure E-34
Date: 2009-04-16	Drawn: OM	Scale: NTS		