

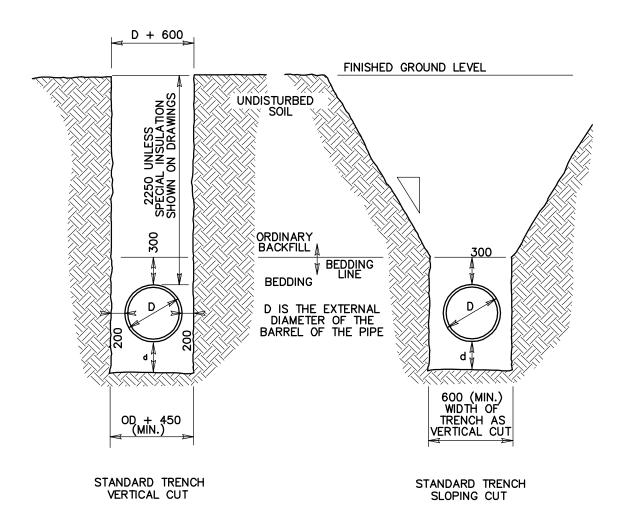
- 1. W=TRENCH WIDTH O.D. + 450mm (MINIMUM)
   1000mm Max. FOR PIPES UP TO AND INCLUDING 400mm DIAMETER.
   O.D. + 400mm Max. (ON EITHER SIDE {800mm TOTAL}) FOR PIPE DIAMETERS 450mm and ABOVE.
  2. O.D. = OUTSIDE PIPE DIAMETER.

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



Rev. Rev. Rev.		నస్థ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PIPE BEDDING DETAILS	
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_O1
Date:	2009-04-16	Drawn: TLB	Scale NTS		F-01



(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

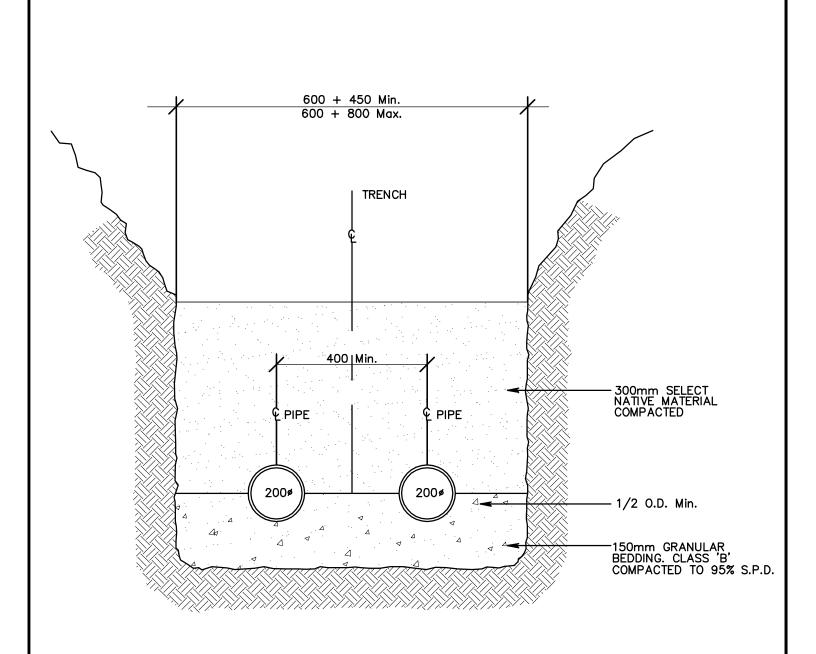
#### NOTE

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

### TOWN OF PEACE RIVER



Rev.		إلى Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD FOR		IENSIONS
Rev.		<b>75 WC</b> II	760.614.3660	FUR	CIRCULAR PI	PE
Rev.		File No.: GP6033068	Design:	Approved:		Figure F-02A
Date:	2009-04-16	Drawn:	Scale NTS			1 024

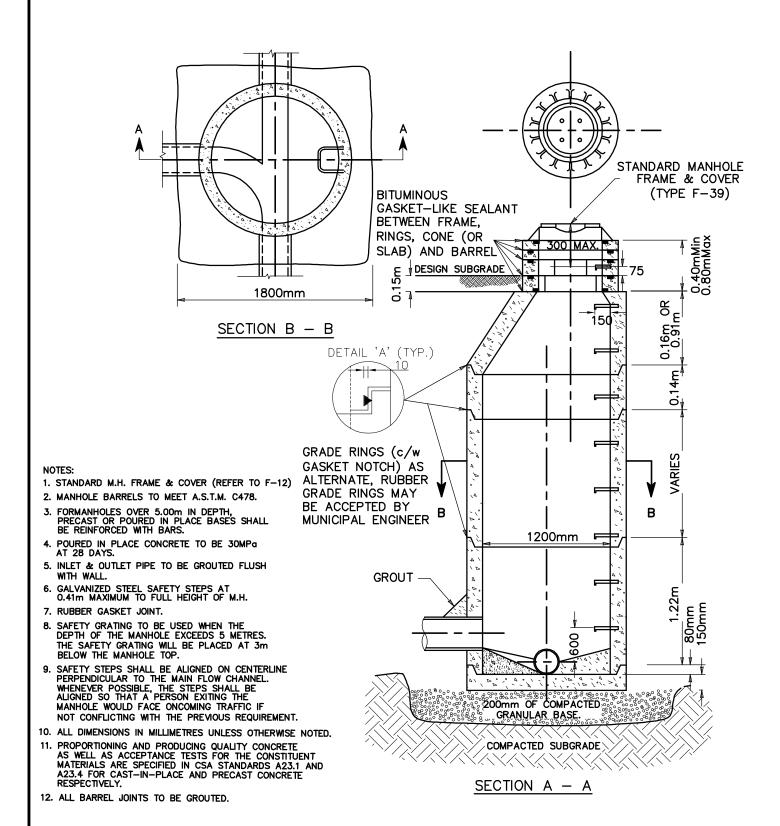


1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

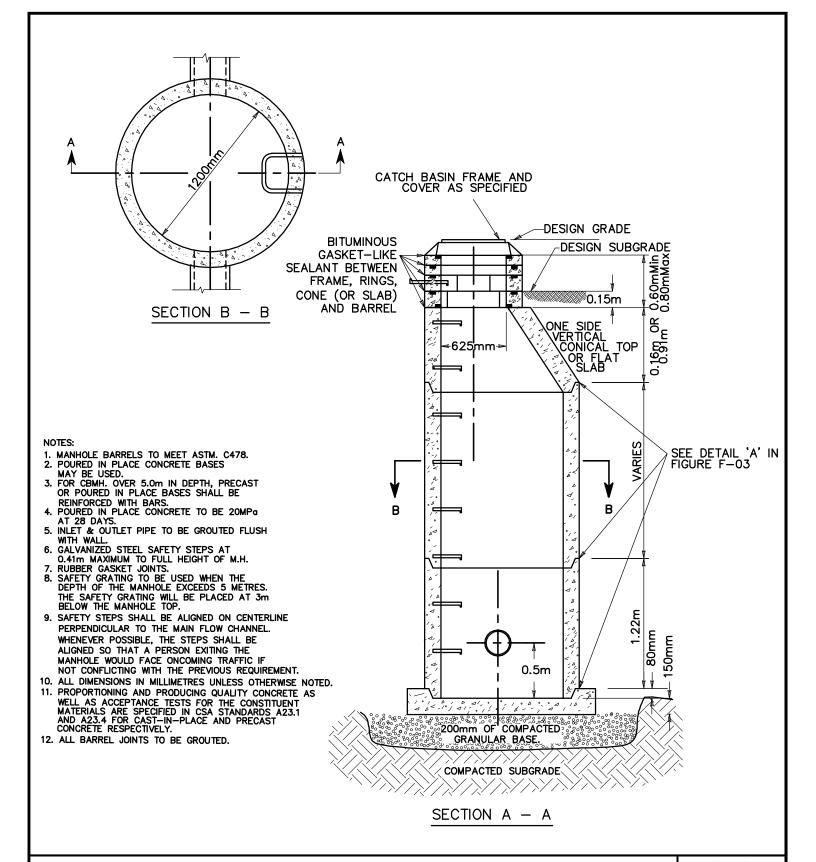


Rev.	≾≥ Stewart #	99, 11039 78th Avenue	PIPE INSTALLED	IN
Rev.		rande Prairie, Alberta		
Rev.	46 AACII 1/8	80.814.5880	COMMON TRENC	H
Rev.	File No.: GP6033068 Des	sign:	Approved:	Figure F 02P
Date: 2009-04-16	Drawn: JAD Sca	ale NTS		F-026



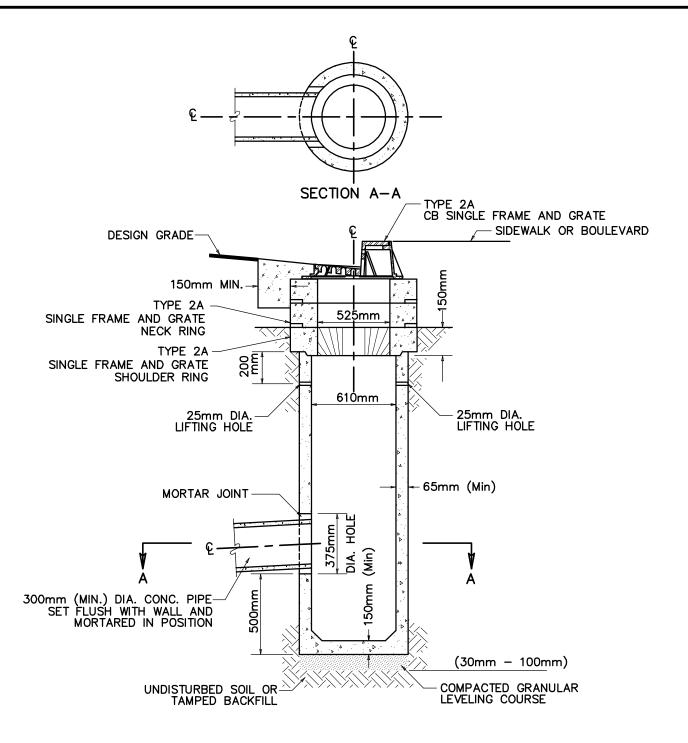


Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD 1200mm	MANHOLE
Rev.		File No.: GP6033068	Design:	Approved:	Figure F-03
Date:	2009-12-22	Drawn:	Scale NTS		1 03





Rev. Rev.		నస్థ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD	1200mm C.E	B. MANHOLE
Rev.		File No.: GP6033068	Design:	Approved:		Figure E_O4
Date:	2009-04-16	Drawn:	Scale NTS			F-04

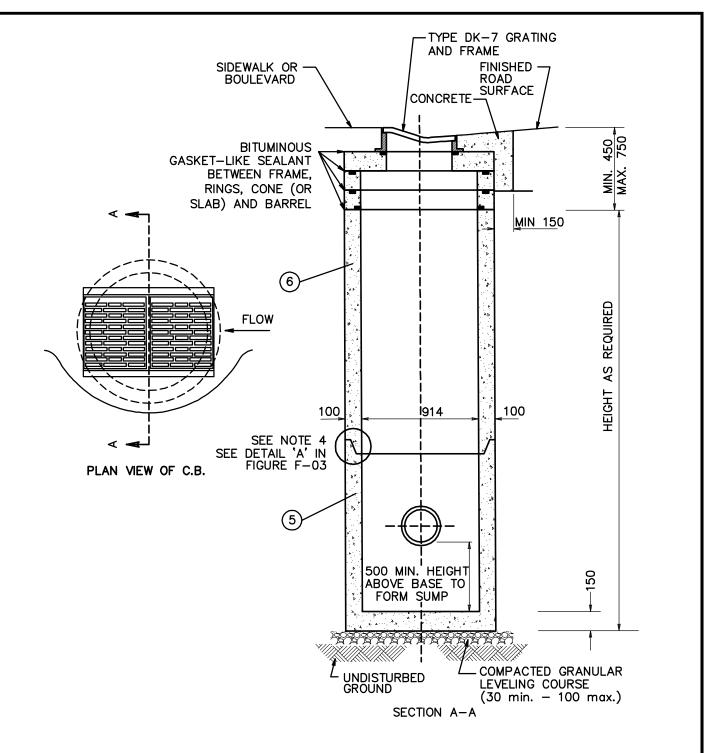


- RUBBER GASKET, KENT SEAL OR EQUIVALENT TO BE INSTALLED BETWEEN BARREL, ALL SHOULDER AND NECK RINGS AND CATCH BASIN FRAME.
- 2. ALL ROUGH JOINTS SHALL BE POINTED WITH MORTAR TO ENSURE SMOOTHNESS.
- 3. ALL CATCH BASIN COMPONENTS TO BE IN ACCORDANCE WITH ASTM C478.
  4. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 5. 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



Rev. Rev.		ನ್ನ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PRECAST	610mmø CAT	CH BASIN
Rev.		File No.: GP6033068	Design:	Approved:		Figure 5_05
Date:	2009-04-16	Drawn:	Scale NTS			1-05

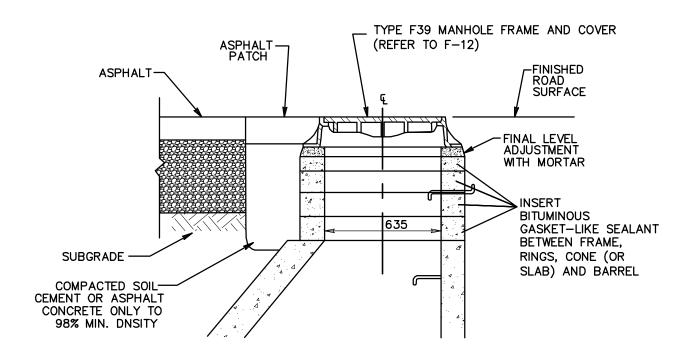


- 1. ITEM 5 COULD BE MADE UP FROM TWO ITEMS (BASE AND BARREL).
- 2. ITEM 6 COULD BE MADE UP FROM TWO ITEMS (SHOULDER RING SLAB TOP AND BARREL).
- 3. ITEMS 5 AND 6 COULD BE MADE AS ONE UNIT.
- 4. OPPOSITE ORIENTATION OF JOINS IS ACCEPTABLE.
- 5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 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



Rev. Rev.	ನ≿ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD 900 CATCH WITH TYPE DK-7 GRATING	H BASIN AND FRAME
Rev.	File No.: GP6033068	Design:	Approved:	Figure F-06
Date: 2009-04-16	Drawn: TLB	Scale NTS		r – 06

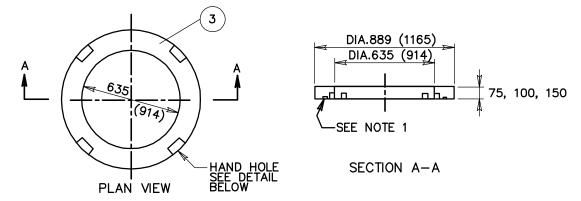


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.

### TOWN OF PEACE RIVER



ŀ	Rev.		న≿ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880		TAILS
	Rev.		4P Well	780.614.3680	FOR STANDARD 1200 I	MANHOLE
	Rev.		File No.: GP6033068	Design:	Approved:	Figure F_07
	Date:	2009-04-16	Drawn:	Scale NTS		

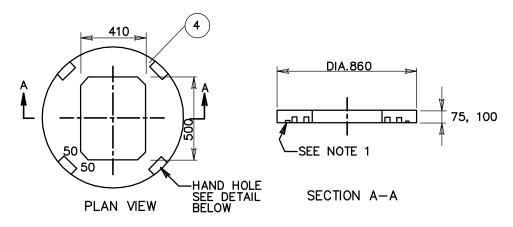


#### 635/900 GRADE RINGS

(GRADE RING FOR USE WITH TYPES 4A,6,6A,8,NF-80,NF-90,F-51 FRAMES AND COVERS/GRATINGS)

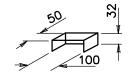
#### NOTE:

900 GRADE RING DIMENSIONS ARE SHOWN IN BRACKETS.



#### K-7 RING/TOP

(RING FOR USE WITH TYPE K-7 OR F-5I WITHOUT SIDE INLET FRAMES AND GRATINGS)



HAND HOLE DETAIL

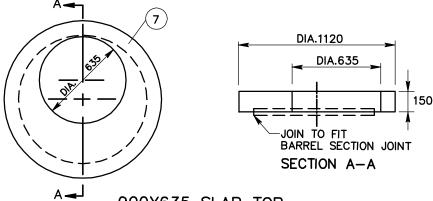
#### NOTES:

- A CONCENTRIC GROOVE LOCATED AT MID CROSS SECTION, SUITABLE FOR SEALANT IS REQUIRED FOR GRADE RINGS AND EXTENSION RINGS.
   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

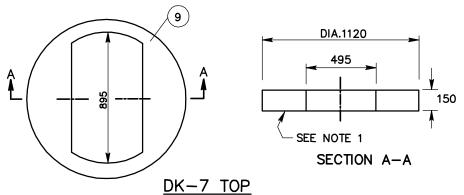


Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	GRADE RING	
Rev.		File No.: GP6033068	Design:	Approved:	Figure F OR
Date:	2009-04-16	Drawn:	Scale NTS		F-08

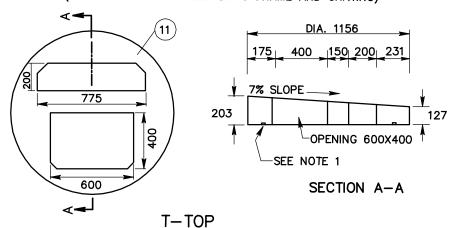


900X635 SLAB TOP

(TOP BELOW NECK FOR USE WITH 4A, 6, 8 FRAME AND GRATING)



(SLAB TOP FOR USE WITH DK-7 FRAME AND GRATING)



(TEE TOP FOR USE WITH F-51 WITH SIDE INLET)

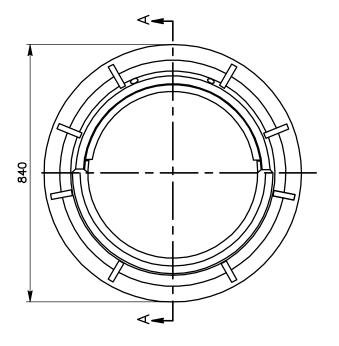
- A CONCENTRIC GROOVE LOCATED AT MID CROSS SECTION, SUITABLE FOR SEALANT IS REQUIRED FOR NECK RINGS AND EXTENSION RINGS.
- 2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

  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.

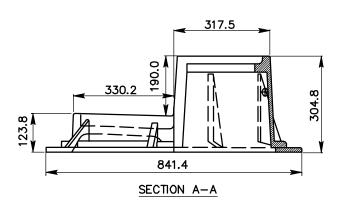
### TOWN OF PEACE RIVER

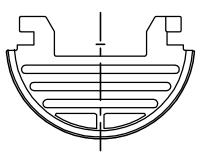


Rev.		১১ Stewar	Grande France, Alberta	SLAB TOPS FOR STA	
Rev.		AN MACIL	780.814.5880	900 CATCH BAS	IN
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_OQ
Date	e: 2009-04-16	Drawn:	Scale NTS		r – 09

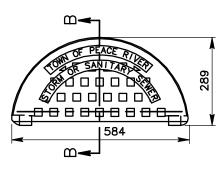


TOP VIEW (FRAME)

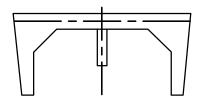




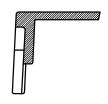
TOP VIEW - COVER (PART A)



TOP VIEW - COVER (PART B)



FRONT VIEW - COVER (PART B)



1. MATERIALS:

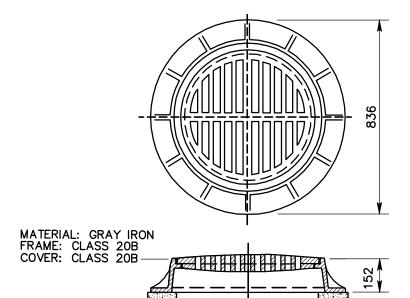
FRAME: GRAY IRON CLASS 20B. COVER: PART A IRON CLASS 20B. PART B DUCTILE IRON GRADE 65-45-12.

2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER

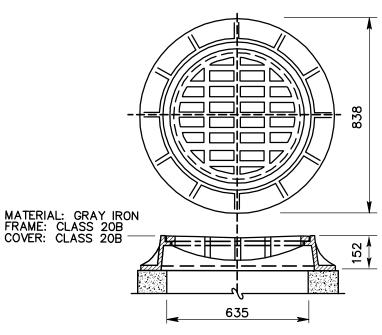


Rev.		≲≳ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880		TWO PIECE TYPE GRATING AND FRA	44
Rev.		<b>47 77011</b>	700.014.3000		GRATING AND FRA	AIMI C
Rev.		File No.: GP6033068	Design:	Approved:		Figure F_10
Date:	2009-04-16	Drawn:	Scale NTS			1 7-10



NO.6 ROUND TOP CATCHBASIN OR MH FRAME & COVER

635



8.0N LARGE PAVING AND CURB RAMP CATCHBASIN OR MH FRAME & COVER

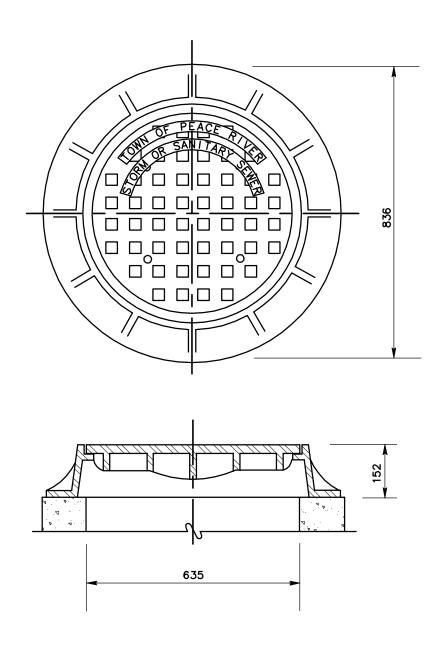
#### NOTES:

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
 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



I	Rev.	Stewart #99, 11039 78th Avenue	FRAME AND GRATING
ı	Rev.	Claride France, Alberta	
I	Rev.	780.814.5880	TYPE 6 AND 8
I	Rev.	File No.: GP6033068 Design:	Approved: Figure <b>11</b>
ı	Date: 2009-04-16	Drawn: Scale NTS	]



1. MATERIALS:

FRAME: GRAY IRON CLASS 20B. COVER: GRAY IRON CLASS 20B.

COVER: GRAY IKUN CLASS ZUD.

2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

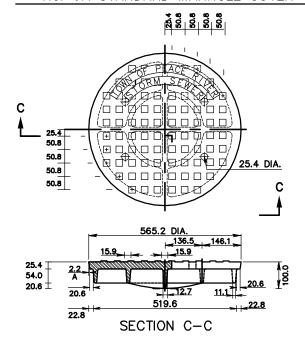
3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.

### TOWN OF PEACE RIVER

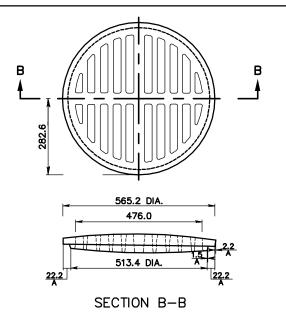


Rev. Rev.	న≿ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPE F39 COVER AND	FRAME
Rev.	File No.: GP6033068	Design:	Approved:	Figure F_12
Date: 2009-04-16	Drawn:	Scale NTS		Γ-12

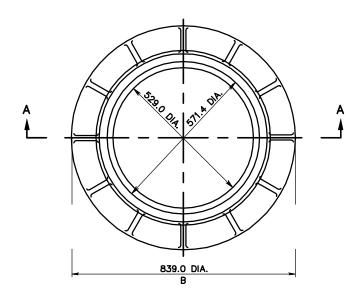
#### No. 6A STANDARD MANHOLE COVER

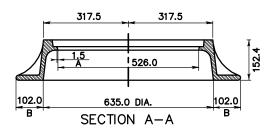


#### No. 6B STANDARD ROUND CATCH BASIN TOP



#### No.6 STANDARD FRAME FOR MANHOLE AND ROUND CATCH BASIN TOP







DETAIL OF CHECKERS

#### 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 MILLIMETTES UNLESS OTHERWISE NOTED.

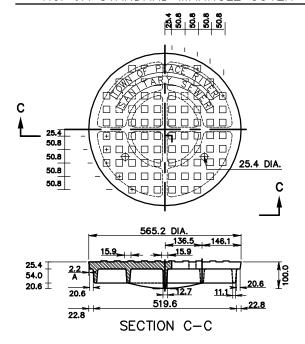
  4. NOT GENERALLY APPLICABLE IN PEACE RIVER. TO BE USED ONLY WHEN DIRECTED BY MUNICIPALITY.

### TOWN OF PEACE RIVER

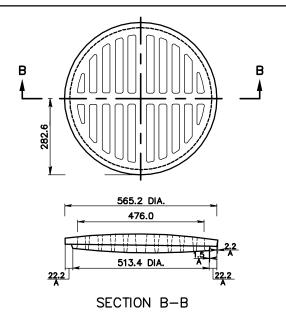


Rev. Rev.	SZ Stewart Weir		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	ROUND TOP CATCH BASIN AND MANHOLE				
Rev.		File No.: GP6033068	Design:	Approved:	Figure F-13A			
Date:	2009-04-16	Drawn:	Scale NTS		r-13A			

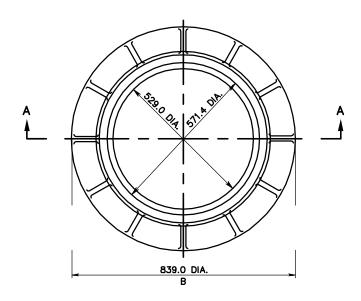
No. 6A STANDARD MANHOLE COVER

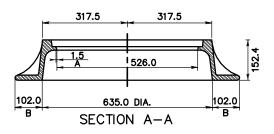


No. 6B STANDARD ROUND CATCH BASIN TOP



#### No.6 STANDARD FRAME FOR MANHOLE AND ROUND CATCH BASIN TOP







DETAIL OF CHECKERS

#### 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.

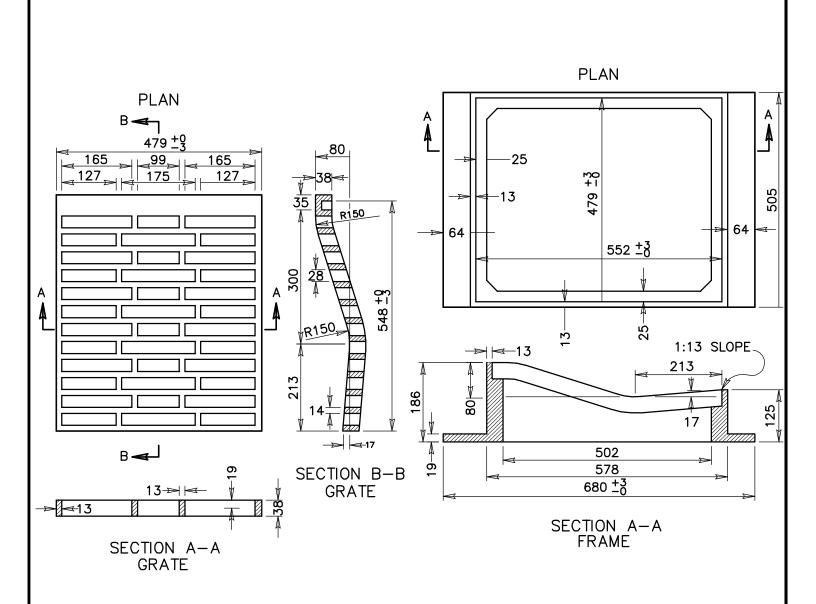
3. ALL DIMENSIONS IN MILLIMETTES UNLESS OTHERWISE NOTED.

4. NOT GENERALLY APPLICABLE IN PEACE RIVER. TO BE USED ONLY WHEN DIRECTED BY MUNICIPALITY.

### TOWN OF PEACE RIVER



Rev. Rev.	ನ್ನ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	ROUND TOP CATCH AND MANHOLE	BASIN
Rev.	File No.: GP6033068	Design:	Approved:	Figure F-13B
Date: 2009-04-16	Drawn:	Scale NTS		[-136]



1. MATERIALS:

FRAME

GREY CAST IRON TO CONFORM TO CLASS 25B A.S.T.M. A48 (LATEST EDITION).

GRATE

DUCTILE IRON TO CONFORM TO A.S.T.M. A536 (LATEST EDITION) GRADE 80-55-06.

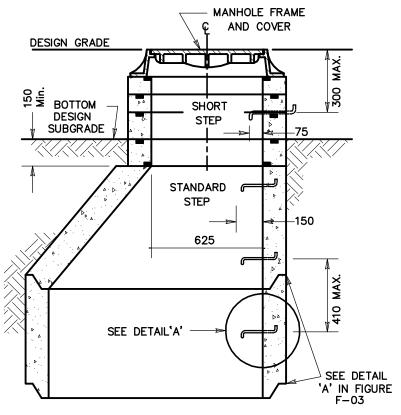
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

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



Rev. Rev.	నస్త్రి Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	FRAME & GRATING T	TING TYPE K-7		
Rev.	File No.: GP6033068	Design:	Approved:	Figure E 1 4		
Date: 2009-04-16	Drawn: TLB	Scale NTS		r <del>-</del> 14		



TYPICAL MANHOLE SECTION

#### PLACEMENT:

- 1. EXCEPT WHERE SPECIFIED OTHERWISE, SAFETY STEPS SHALL BE INSTALLED IN ALL PRECAST MANHOLE SECTIONS & CONES, 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

- 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.

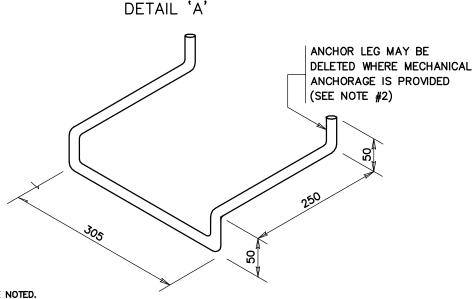
  2. STEPS SHALL BE CAST FIRMLY IN PLACE OR SECURED WITH A SUITABLE MECHANICAL ANCHORAGE TO PREVENT PULLOUT, AND MAINTAIN WATER TIGHTNESS.

  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
- 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.



1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

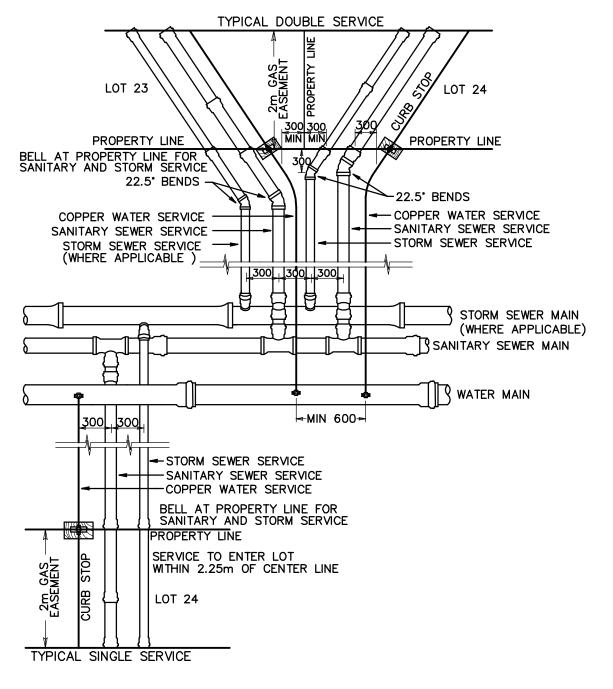
NOTES:

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



Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SAFETY STEPS FOR MA	ANHOLES	
Rev. Weir		760.614.5660				
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_15	
Date:	2009-04-16	Drawn:	Scale NTS		13	

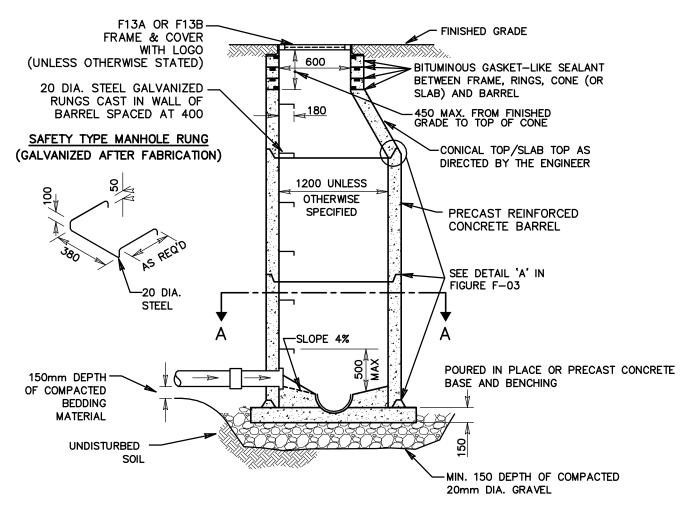


- 1. WATER AND SEWER SERVICES MAY BE EXTENDED TO EDGE OF 2.0m GAS EASEMENT.
- 2. THE COUNTY ACCEPTS NO RESPONSIBILITY FOR THE CONSTRUCTION OR MAINTENANCE OF SERVICES INSTALLED WITHIN THE EASEMENT.
- 3. MARK ENDS OF SERVICES AT EDGE OF GAS EASEMENT WITH A 50mm X 100mm X 750mm STAKE PROTRUDING 450mm ABOVE GROUND AND PAINTED BLUE. MARK THE CURB CONTROL VALVE WITH A SIMILAR STAKE PAINTED RED.
- 4. THE END OF COPPER WATER SERVICE PIPING SHOULD NOT BE CRIMPED CLOSED, PERMEABLE FILTER CLOTH MAY BE USED TO PREVENT INTRUSION OF DEBRIS AND TO ALLOW TESTING FLOW OF CURBSTOP.
- 5. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 6. SEWERLINE TO ALWAYS BE DOWNSIDE OF WATERLINE BASED ON SEWER FLOW DIRECTION.

### TOWN OF PEACE RIVER

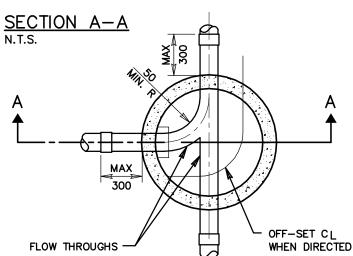


Rev.	#99, 11039 78th Avenue			
Rev.	Stewart #99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL SERVICES (SINGL	E & DUAL)	
Rev.	780.814.5880	·		
Rev.	File No.: GP6033068 Design:	Approved:	Figure F_16	
Date: 2009-04-16	Drawn: TLB Scale NTS		F-16	



- ALL PRECAST MANHOLES MUST CONFORM TO A.S.T.M. SPECIFICATIONS C478.
- 2. POURED IN PLACE CONCRETE SHALL HAVE 28 DAYS COMPRESSIVE STRENGTH OF 25 MPa.
- 3. ALL JOINTS MORTARED INSIDE & OUT.
  4. FORM FLOW THROUGH IN PARTIALLY SET CONCRETE AND TROWEL SMOOTH.
- 5. ALL DIMENSIONS IN MILLIMETRES UNLESS
- OTHERWISE NOTED.
- 6. MAX DIST. FROM RIM TO TOP RUNG IS 800mm. 7. BACKFILL MH. WITH SELECT NATIVE MATERIAL.
- 8. 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.

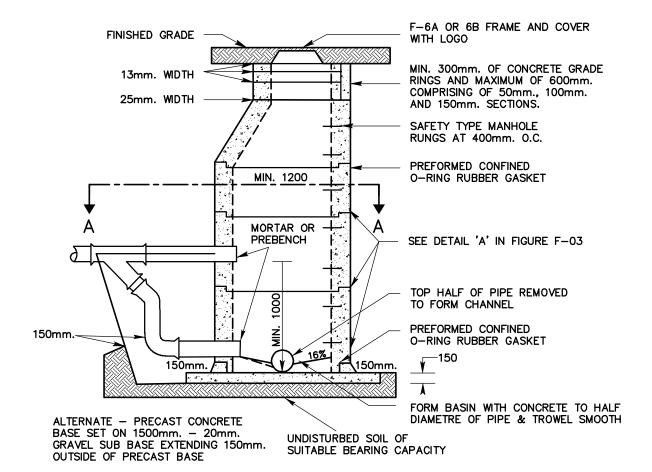
  9. ALL BARREL JOINTS TO BE GROUTED.



### TOWN OF PEACE RIVER

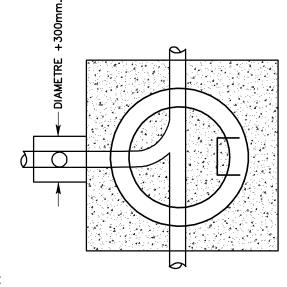


Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780,814,5880	K-7 DF&G SHOULDEF	RING
Rev.		<b>40</b> 00011			
Rev.		File No.: GP6033068	Design:	Approved:	Figure F-17Δ
Date:	2009-04-16	Drawn:	Scale NTS		F-1/A



- ALL PRECAST MANHOLES MUST CONFORM TO A.S.T.M. SPECIFICATIONS C478.
- 2. POURED IN PLACE CONCRETE SHALL HAVE 28 DAYS COMPRESSIVE STRENGTH OF 25 MPa.
- 3. ALL JOINTS MORTARED INSIDE & OUT.
  4. FORM FLOW THROUGH IN PARTIALLY SET CONCRETE AND TROWEL SMOOTH.
- CONCRETE AND TROWEL SMOOTH.

  5. ALL DIMENSIONS IN MILLIMETRES UNLESS
- OTHERWISE NOTED.
- 6. MAX DIST. FROM RIM TO TOP RUNG IS 800mm. 7. BACKFILL MH. WITH SELECT NATIVE MATERIAL.
- 8. 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.
- 9. ALL BARREL JOINTS TO BE GROUTED.

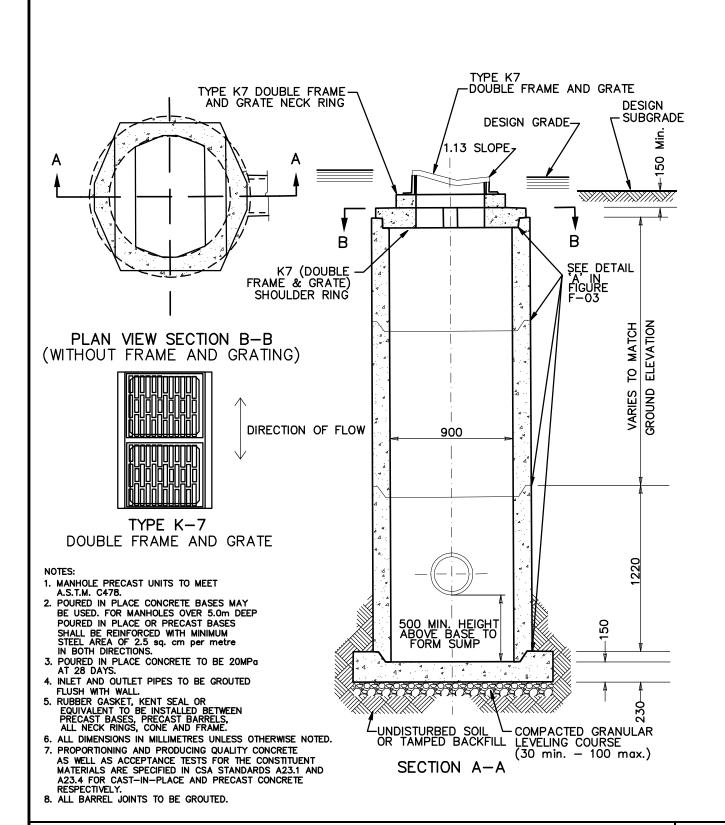


SECTION A-A

### TOWN OF PEACE RIVER

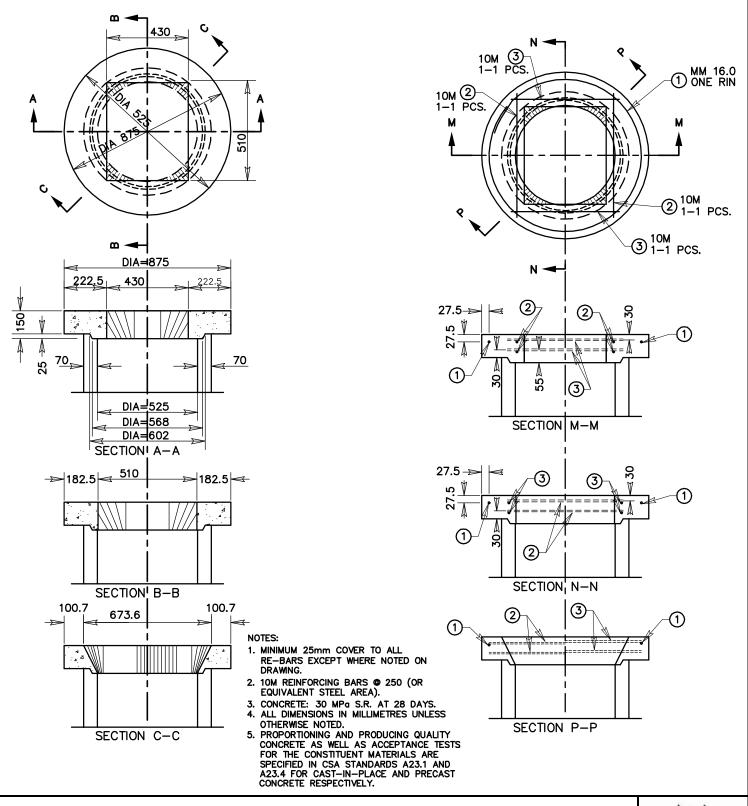


								_	
Rev.		≾≿ Stewart	#99, 11039 78th Avenue						
Rev. Weir		Nois Stewart	Grande Fraine, Alberta	PRECAST DROP MANHO					
Rev.		AN MACIL	780.814.5880						
Rev.		File No.: GP6033068	Design:	Approved:			•	Figure	F_17D
Date:	2009-04-16	Drawn:	Scale NTS						r — I / D



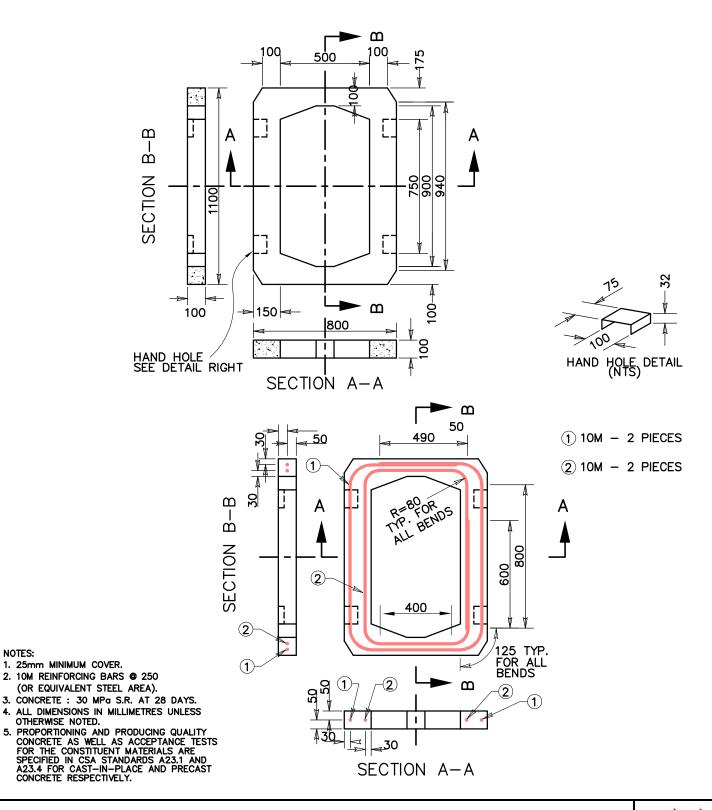


Rev. Rev.	ನ್ನ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD 900mm PRE c/w K7 DOUBLE FRAME	
Rev. Date: 2009-04-16	File No.: GP6033068  Drawn: T.B.	Design: Scale NTS	Approved:	Figure F-18



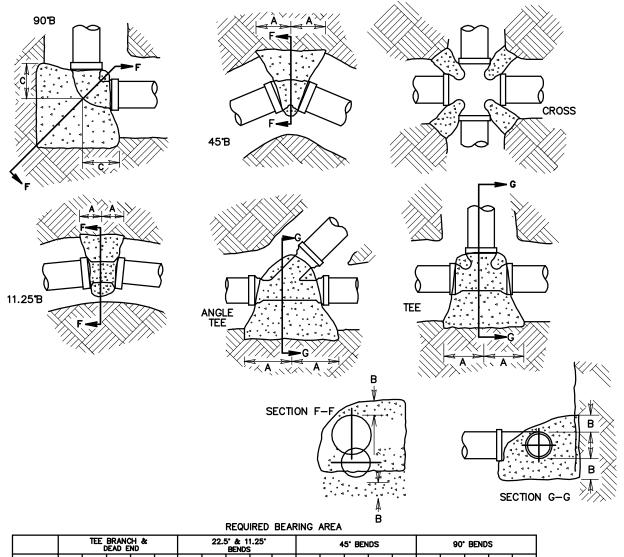


Rev.	১১ Stewar	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	K-7 SF&G SHOULDER	R RING
Rev.	00 11 011			
Rev.	File No.: GP6033068	Design:	Approved:	Figure F_10
Date: 2009-04-16	Drawn: T.S./JAD	Scale NTS		F-19





Rev.	ੁ Stewar ਿ Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	K-7 DF&G NECK	RING
Rev.	47 Weii	760.614.3660		
Rev.	File No.: GP6033068	Design:	Approved:	Figure F_20
Date: 2009-04-16	Drawn: T.S./JAD	Scale NTS		F-20



	TEE BRANCH & DEAD END				22.5° & 11.25° BENDS			45° BENDS				90° BENDS								
DIA (mm)	300	250	200	150	100	300	250	200	150	100	300	250	200	150	100	300	250	200	150	100
A (mm)	975	775	550	375	250	300	225	200	150	100	550	450	375	300	200					
B (mm)	75	75	75	75	75	150	125	100	75	75	150	125	100	75	75	525	350	300	200	150
C (mm)																450	400	350	300	200
AREA(m <sup>2</sup> )	1.025	0.750	0.475	0.275	0.125	0.50	0.275	0.200	0.150	0.05	0.800	0.550	0.375	0.225	0.100	1.475	1.025	0.700	0.400	0.175

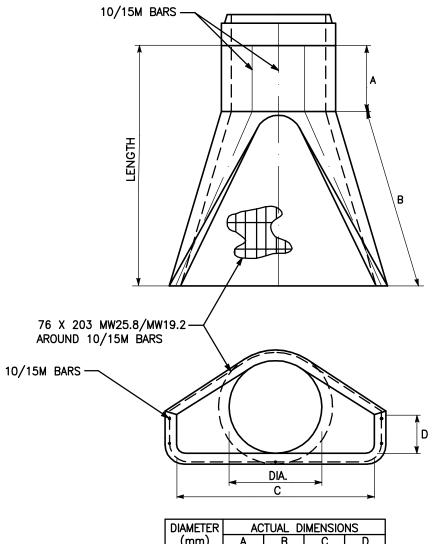
- DESIGN BASIS:
   HYDRAULIC PRESSURE 1035 kPa.
   SOIL BEARING CAPACITY 72kPa (MEDIUM SOFT CLAY).
- 2. TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER.

- 2. TEMPORARY BLOCKING MOST BE APPROVED BY THE ENGINEER.
  3. CONCRETE STRENGTH SHALL BE 25MPa AT 28 DAYS.
  4. CONCRETE TO BE CLEAR OF BELLS AND PIPE AND UNDER ALL FITTINGS.
  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.
- 7. ALL JOINTS OVER 10 DEGREES NEED RESTRAINTS.

### TOWN OF PEACE RIVER



Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	HORIZONTAL CONCRETE BLOCK DETAILS	THRUST
Rev.		File No.: GP6033068	Design:	Approved:	Figure E 21
Date:	2009-04-16	Drawn:	Scale NTS		r – Z I



DIAMETER	ACTUAL DIMENSIONS						
(mm)	Α	В	C	D			
600	749	1168	1207	254			
1050	889	1650	1981	533			

NOTE: 1050mm CULVERT TO COME WITH GATE

#### NOTE:

Date:

2009-04-16

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

Drawn: GGB

# TOWN OF PEACE RIVER

General Municipal Servicing Standards

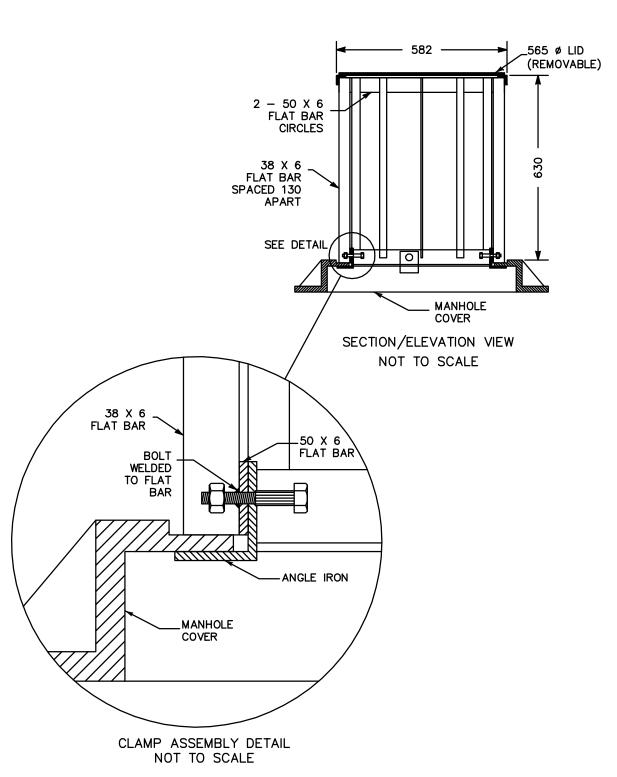
Scale



F-22

Rev.	≾≿ Stewart	#99, 11039 78th Avenue		CONCRETE CUL'	VFRT
Rev.	Weir	Grande Flaine, Alberta			
Rev.	AN MEII	780.814.5880		FLARED END DE	ETAIL
Rev.	File No.: GP6033068	Design:	Approved:		Figur

NTS

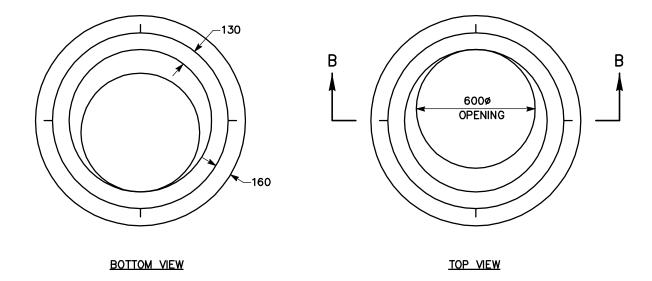


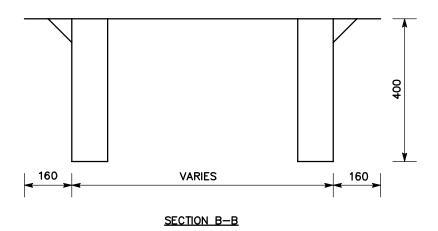
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER



Rev.  Rev.  Rev.  Rev.  Rev.  Stewart #99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880		TRASH GUARD FOR MANHOLE ASSEMBLY			
Rev.		File No.: GP6033068	Design:	Approved:	Figure F 0.7
Date:	2009-04-16	Drawn: CP	Scale NTS		F-23



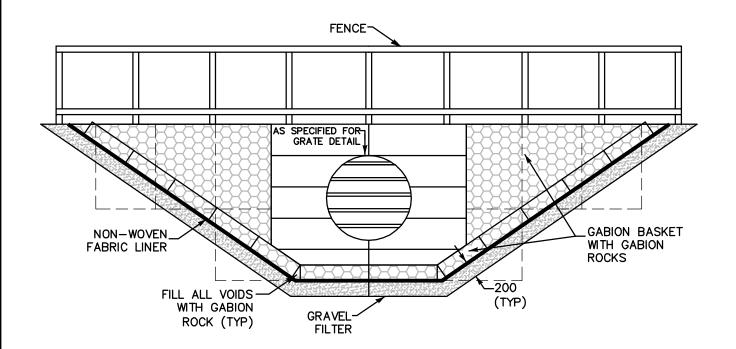


1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev.		న్న Stewart	#99, 11039 78th Avenue Grande Prairie, Alberta	STEEL PLATE TOP S	YSTEM
Rev.		Weir Weir	780.814.5880	SIEEL FLATE TOF 3	ISIEM
Rev.		File No.: GP6033068	Design:	Approved:	Figure F-24
Date:	2009-04-16	Drawn: JAD	Scale NTS		

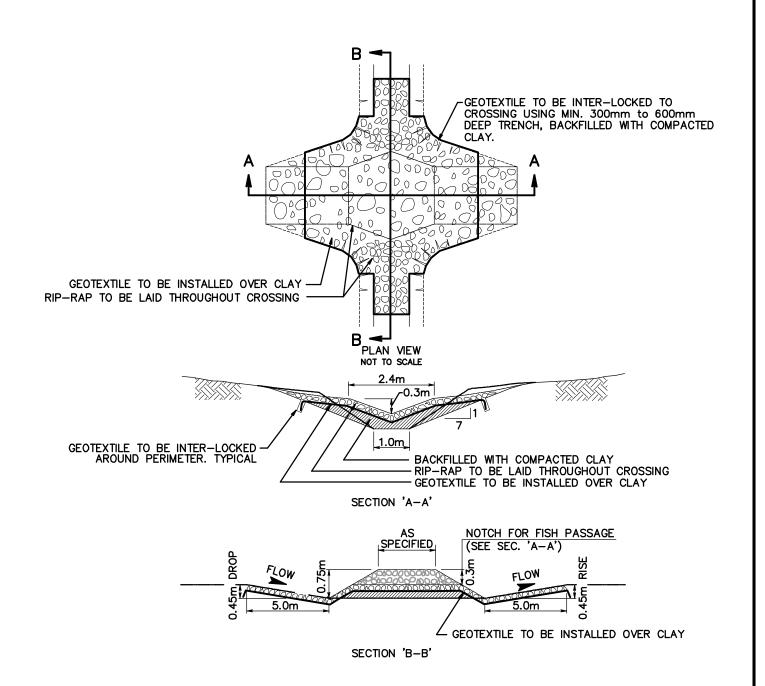


1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER



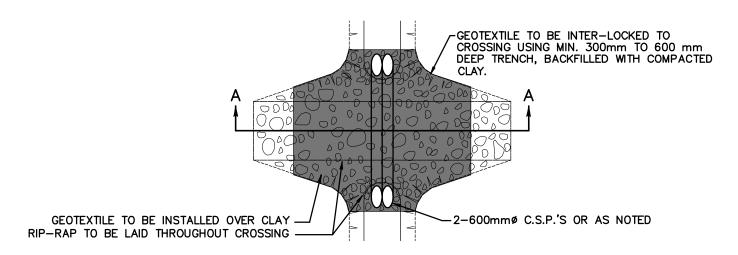
Rev. Rev.	Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	GABION BASKET DETAIL STOUTLET (OUTLETS GREATER T	_
Rev.	File No.: GP6033068	Design:	Approved:	Figure F-25
Date: 2009-04-1	6 Drawn: CP	Scale NTS		r-25



- 1. GEOTEXTILE OVERLAPS TO BE A MIN. OF 300mm.
  2. ROCKED LINED CROSSING: USE 150mm-200mm ROCK, MAT THICKNESS 300mm.
  3. EXTEND TO FULL WIDTH, LENGTH & SIDESLOPE OF CROSSING AS WELL AS UPSTREAM & DOWNSTREAM. SPRAY SLURRY MIX CONCRETE (5MPa) TO FILL VOIDS (TOP ONLY).
  4. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

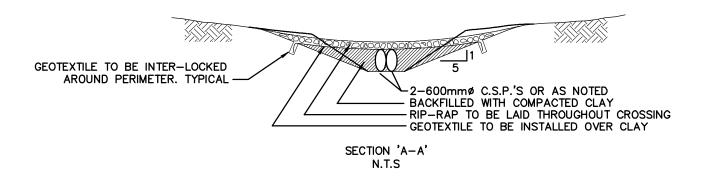


Rev. Rev.		S Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	LOW LEVEL X-ING NO	CULVERT
Rev.		File No.: GP6033068	Design:	Approved:	Figure E_26
Date:	2009-04-16	Drawn: TLB	Scale NTS		r <b>–</b> 20



NOTE: GEOTEXTILE OVERLAPS TO BE A MIN. OF 300 mm

PLAN VIEW
N.T.S



NOTE:

Date:

2009-04-16

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

Drawn:

TLB

## TOWN OF PEACE RIVER

General Municipal Servicing Standards

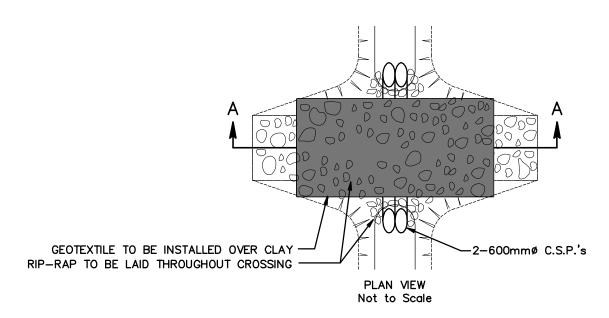
NTS

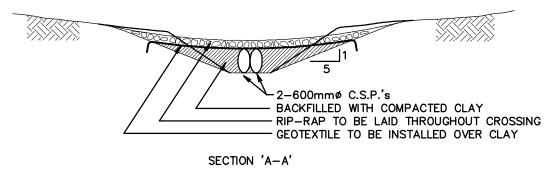
Scale



Rev.		#99, 11039 78th Avenue		
Rev.	Weir	Grande Fraine, Alberta	LOW LEVEL X-ING WITH	CULVERT
Rev.	AN MEII	780.814.5880		
Day	File No : CP6033068	Design	Approved:	Figure

F-27





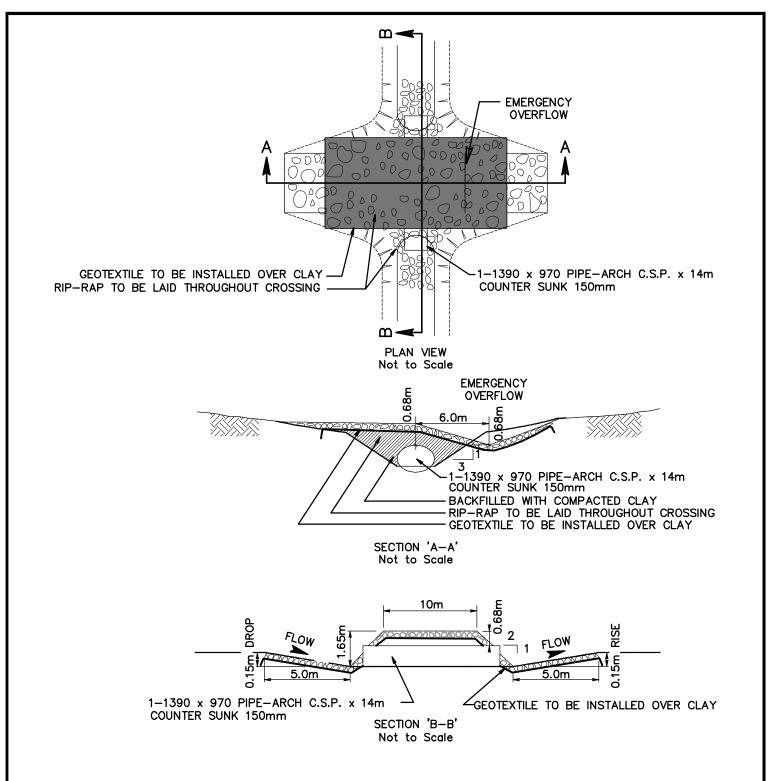
General Municipal Servicing Standards



Rev. Rev.	Stewart Weir #99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	LOW LEVEL X-ING WITH	CULVERT
Rev.	File No.: GP6033068 Design:	Approved:	Figure F 00

 Rev.
 File No.: GP6033068
 Design:
 Approved:

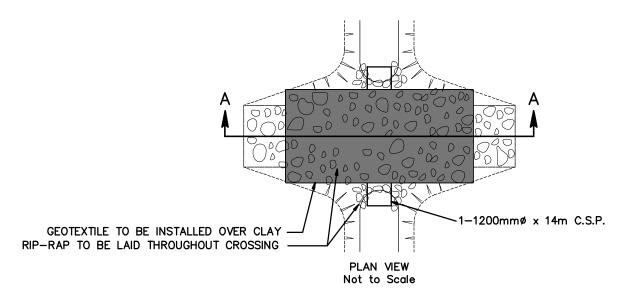
 Date: 2009-04-16
 Drawn: TLB
 Scale NTS

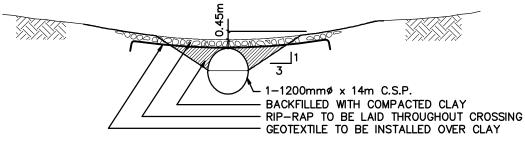


- 1. GEOTEXTILE OVERLAPS TO BE A MIN, OF 300mm.
  2. ROCK LINED CROSSING: USE 150mm 200mm ROCK, MAT THICKNESS 300mm.
  3. EXTEND TO FULL WIDTH, LENGTH & SIDESLOPE OF CROSSING AS WELL AS UPSTREAM & DOWNSTREAM AND OVERFLOW CHANNEL.
  4. SPRAY SLURRY CONCRETE (5MPa) TO FILL VOIDS (TOP ONLY).



Rev.  Rev.  Rev.  Rev.  Rev.		LOW LEVEL X-ING WITH CULVERT			
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_2Q
Date:	2009-04-16	Drawn: TLB	Scale NTS		1-29





SECTION 'A-A' Not to Scale

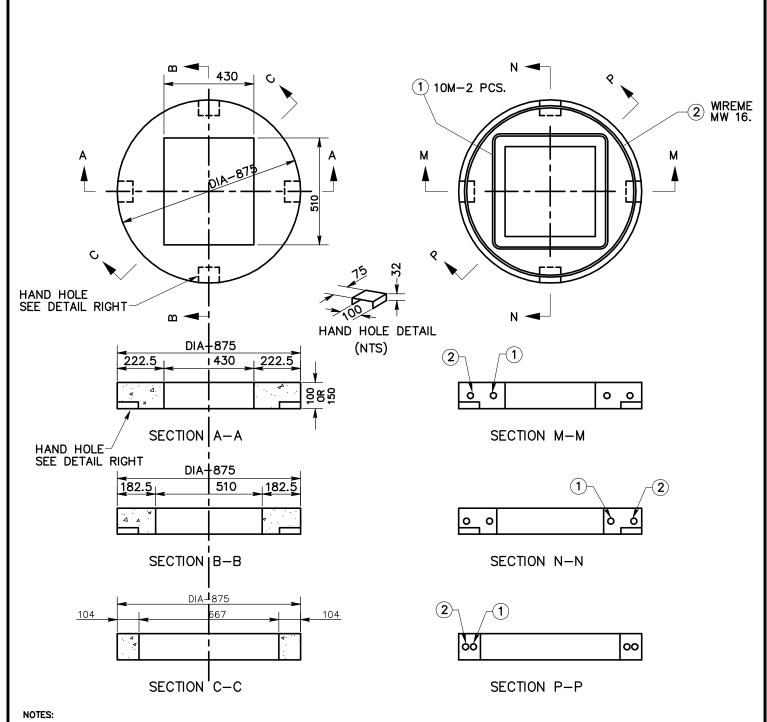
10m FLOW 1-1200mmø x 14m C.S.P. GEOTEXTILE TO BE INSTALLED OVER CLAY SECTION 'B-B' Not to Scale

- 1. GEOTEXTILE OVERLAPS TO BE A MIN. OF 300mm.
- 2. ROCK LINED CROSSING: USE 150mm 200mm ROCK, MAT THICKNESS 300mm.
- 3. EXTEND TO FULL WIDTH, LENGTH & SIDESLOPE OF CROSSING AS WELL AS UPSTREAM & DOWNSTREAM.
  4. SPRAY SLURRY MIX CONCRETE (5MPa) TO FILL VOIDS (TOP ONLY).

### TOWN OF PEACE RIVER



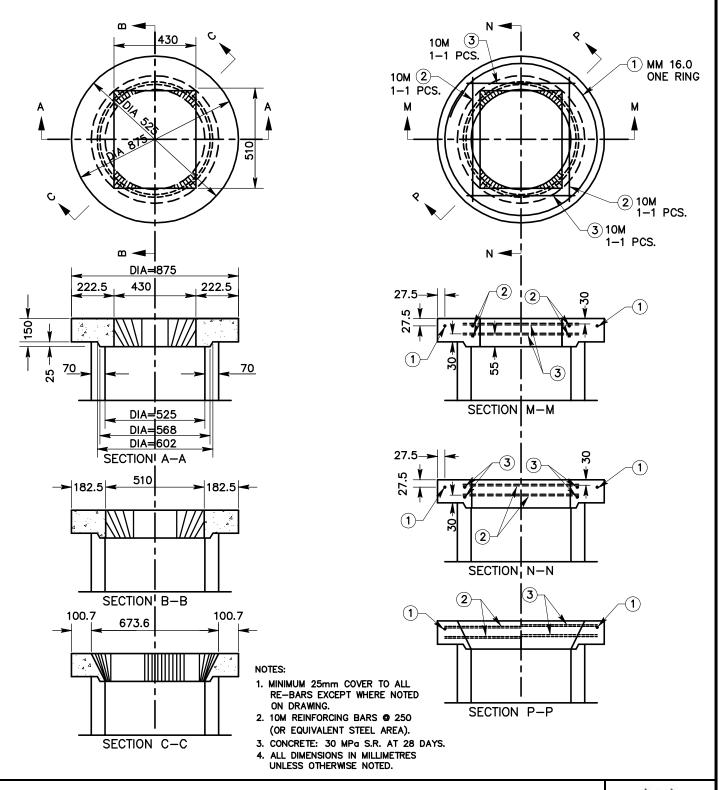
Rev. Rev.		న్న Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	LOW	LEVEL X-ING	WITH	CULVERT
Rev.		File No.: GP6033068	Design:	Approved:			Figure F 70
Date:	2009-04-16	Drawn: TLB	Scale NTS				r — 30



- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. 25mm MINIMUM COVER.
- 3. 10M REINFORCING BARS @ 250 (OR EQUICALENT STEEL AREA).
- 4. CONCRETE: 30 MPa S.R. AT 28 DAYS.

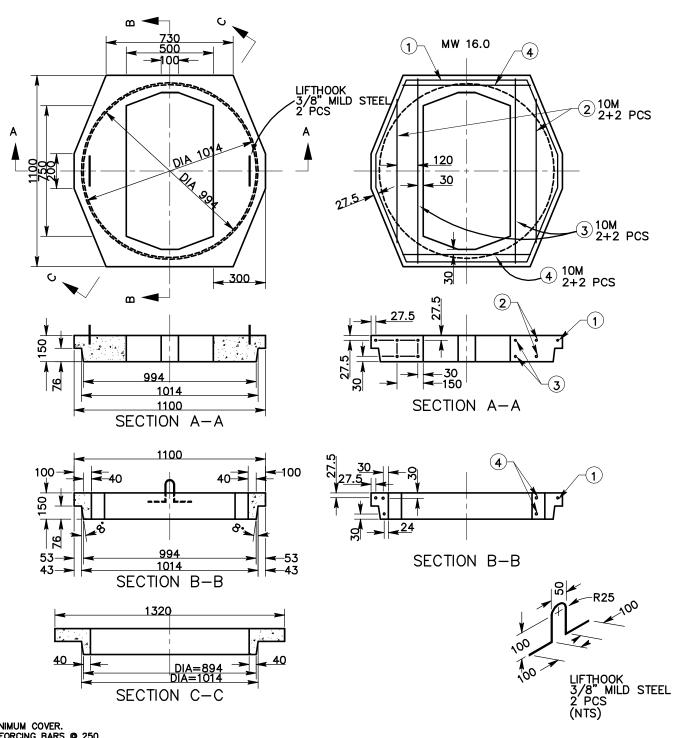


Rev. Rev.	১১ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	K-7	SF&G NECK I	RING
Rev.	File No.: GP6033068	Design:	Approved:		Figure F = 31
Date: 2009-04-16	Drawn: T.S./JAD	Scale NTS			r-31





Rev.	ડૂટ્ર Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	K-7 SF&G SHOULDER	R RING
Rev.	File No.: GP6033068	Design:	Approved:	Figure F 70
Date: 2009-04-16	Drawn: T.S.	Scale NTS		F-32

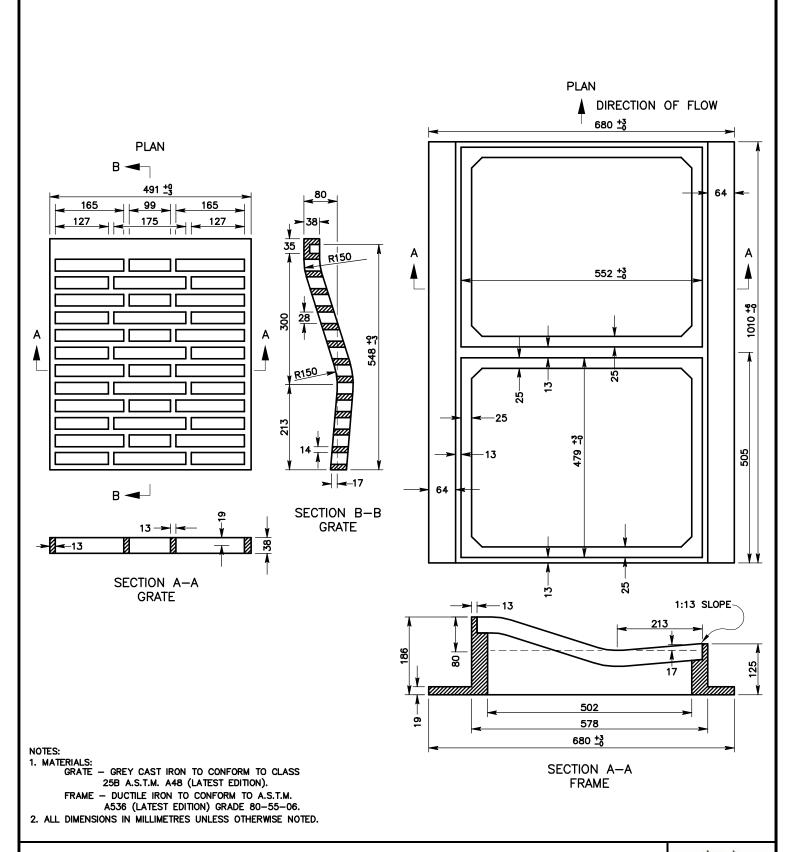


- 1. 25mm MINIMUM COVER.
- 10M REINFORCING BARS @ 250 (OR EQUIVALENT STEEL AREA).
- 3. CONCRETE: 30 MPa AT 28 DAYS.
- 4. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 5. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

## TOWN OF PEACE RIVER



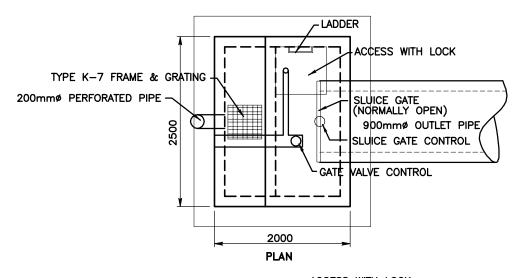
Rev.	— న్ల Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	K-7 DF	& G SHOULD	ER RING
Rev.	45 11011	760.014.3666			
Rev.	File No.: GP6033068	Design:	Approved:		Figure F_33
Date: 2009-04-1	6 Drawn: T.S. / JAD	Scale NTS	]		r – 33

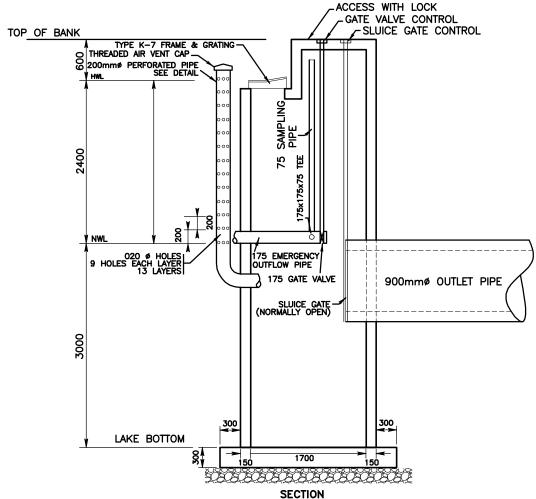


## TOWN OF PEACE RIVER



Rev. Rev.	১১ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	K-7 DF&G CATCH E	BASIN
Rev.	File No.: GP6033068	Design:	Approved:	Figure F-34
Date: 2009-04-16	Drawn: T.S./JAD	Scale NTS		r – 34



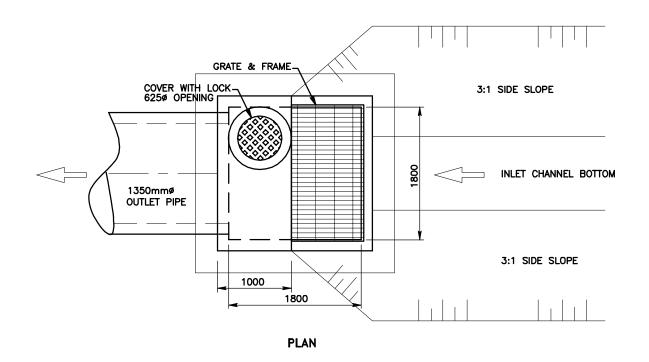


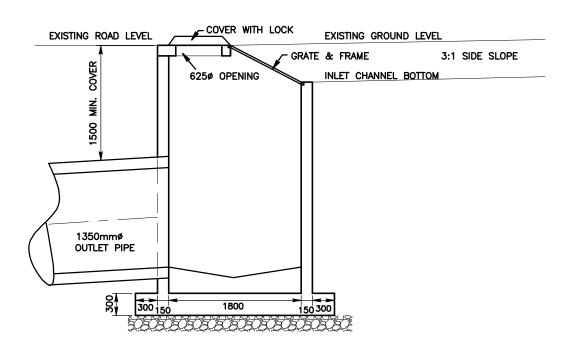
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev. Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STORM POND OUTLET	STRUCTURE
Rev.		File No.: GP6033068	Design:	Approved:	Figure _ Z 5
Date:	2009-04-16	Drawn:	Scale NTS		r-35



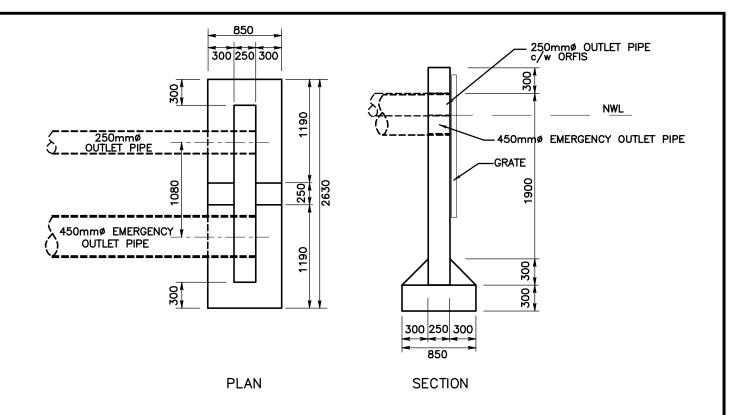


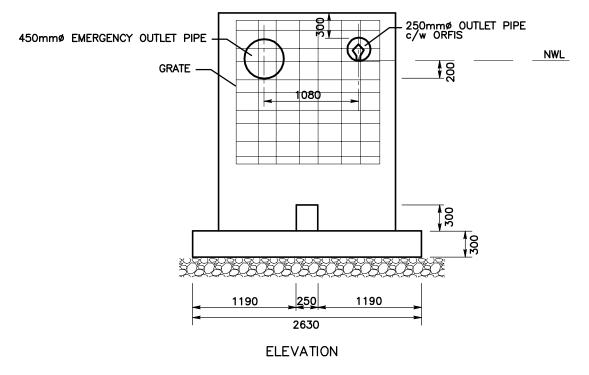
NOTE:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev. Rev.	الالالالالالالالالالالالالالالالالالال	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SWALE INLET STRUC	TURE
Rev.	File No.: GP6033068	Design:	Approved:	Figure F_36
Date: 2009-04-16	Drawn:	Scale NTS		



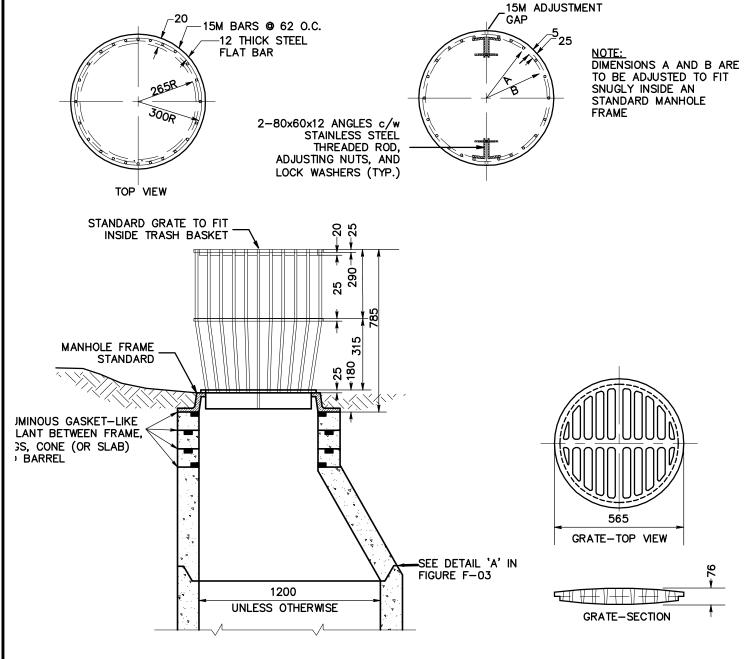


NOTE: 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev. Rev.	ನ್ನ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STORM POND OUTLET	CONTROL
Rev.	File No.: GP6033068	Design:	Approved:	Figure C Z7
Date: 2009-04-16	Drawn:	Scale NTS		F-3/

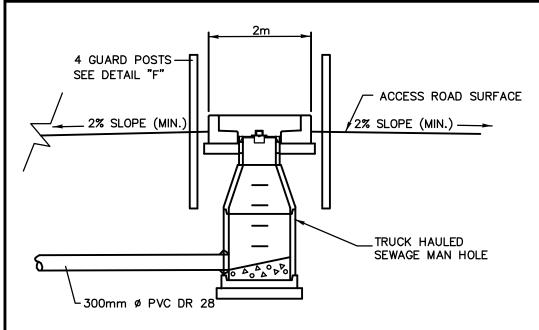


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.
- 3. ALL BARREL JOINTS TO BE GROUTED.

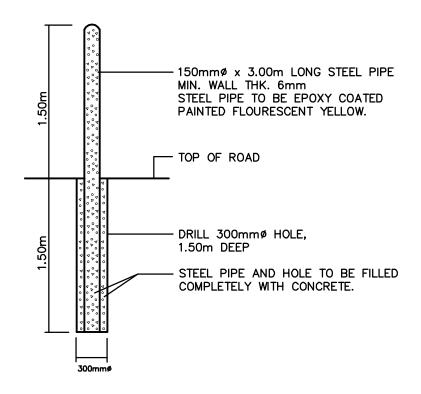
### TOWN OF PEACE RIVER



Rev. Rev.	১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SWALE INLET STRUC	TURE
Rev. Date: 2008-12-22	File No.: GP6033068  Drawn: T.S.	Design: Scale NTS	Approved:	Figure F-38



### DETAIL - GUARD POSTS



DETAIL "F" - GUARD POST

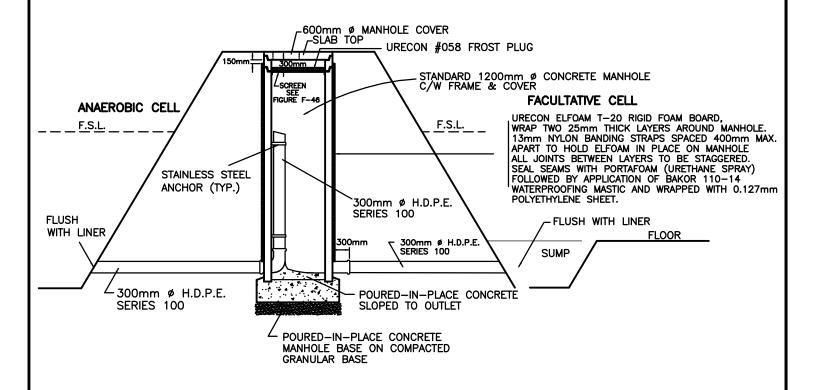
#### NOTES:

- 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



Rev. Rev.		ನ್ನ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	GUARD POSTS		
Rev.		File No.: GP6033068	Design:	Approved:	Figure	F 70
Date:	2009-04-16	Drawn: OM	Scale NTS			r – 39



Date:

2009-04-16

- 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.

Drawn: OM

### TOWN OF PEACE RIVER

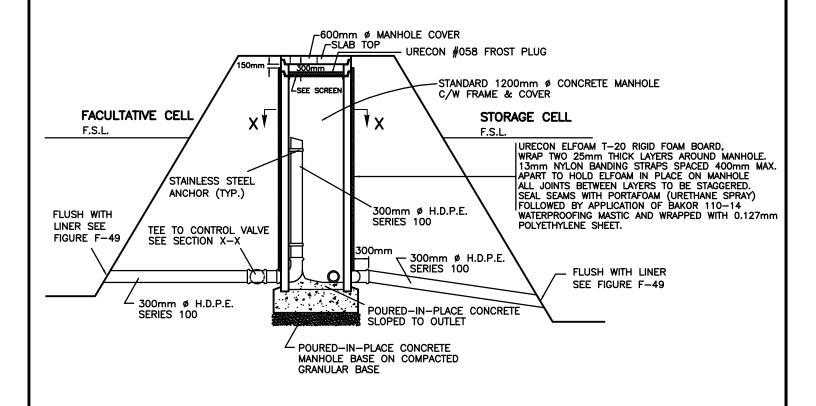
General Municipal Servicing Standards

NTS

Scale



Rev.	≾≿ Stewart	#99, 11039 78th Avenue	OVERFLOW	STRUCTURE FROM	A ANAEROBIC
Rev.		Grande Praine, Alberta	CELL	TO FACULTATIVE	CELL
Rev.	Weir weir	780.814.5880	CELL	TO FACULTATIVE	CELL
Rev.	File No.: GP6033068	Design:	Approved:		Figure F_40
Date: 2009_04_16	Drawn: OM	Seele NTS			F — <del>4</del> 0

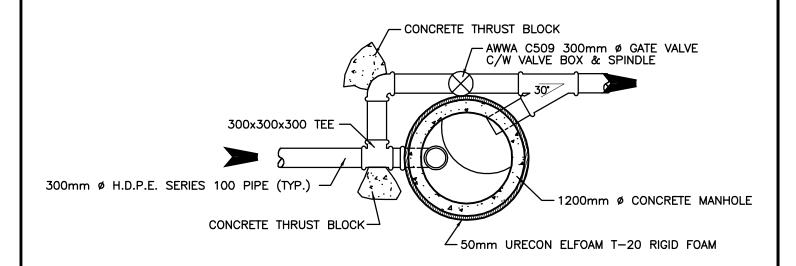


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE
  AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT
  MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4
  FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.
- 3. SECTION 'X-X' SEE FIGURE F-42.

### TOWN OF PEACE RIVER



I	Rev.	Stewart #99, 11039 78th Avenue	CONTROL AND OVERFLOW STRUC	THE
ı	Rev.	Claride Traine, Alberta		
	Rev.	780.814.5880	FROM FACULATIVE CELL TO STORA	AGE CELL
I	Rev.	File No.: GP6033068 Design:	Approved: Figure	F-41
	Date: 2009-04-16	Drawn: OM Scale NTS		F — <b>4</b> I

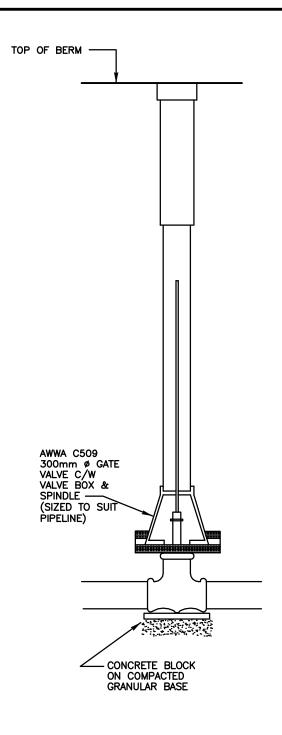


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE
  AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT
  MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4
  FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.

## TOWN OF PEACE RIVER



Rev. Rev.	১১ Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SECTION X-X	
Rev. Date: 2009-04-16	File No.: GP6033068	Design: Scale NTS	Approved:	Figure F-42

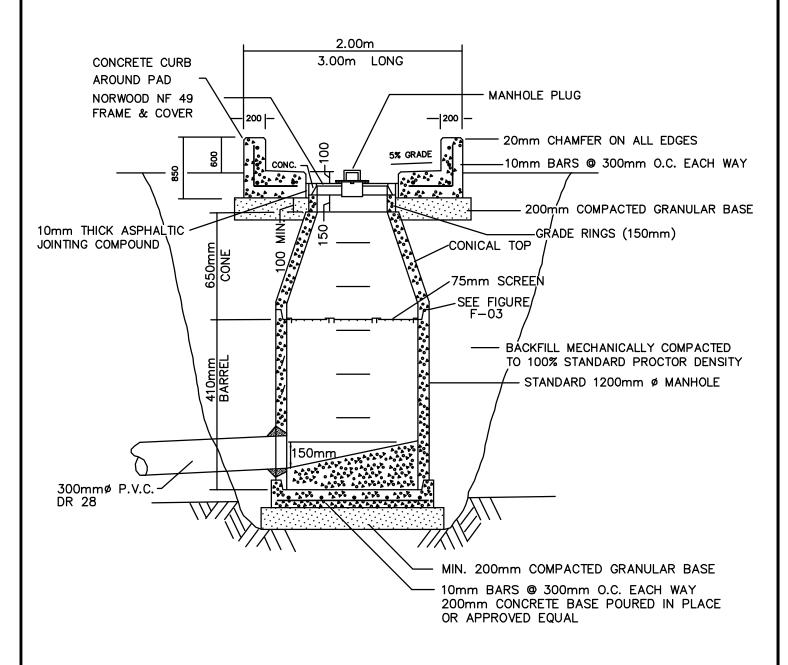


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE
  AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT
  MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4
  FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.

## TOWN OF PEACE RIVER



Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CONTROL GATE VALVE	(TYPICAL)
Rev.		FILE NO.: GP6033068	Design:	Approved:	Figure E_1Z
Date:	2009-04-16	Drawn: OM	Scale NTS		F-45

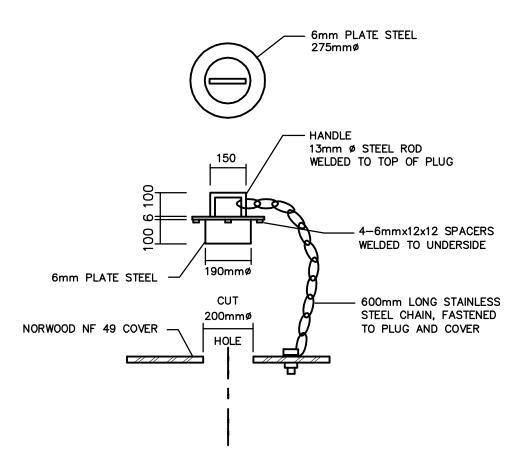


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.
- 3. ALL BARREL JOINTS TO BE GROUTED.

### TOWN OF PEACE RIVER



Rev.	್ನು Stewar Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780,814,5880	DUMPING TRUCK HAULEI MANHOLE	D SEWAGE
Rev.	<b>30 000</b>	150.514.6505	MANTOLL	
Rev.	File No.: GP6033068	Design:	Approved:	Figure F-44
Date: 2009-04-	-16 Drawn: OM	Scale: NTS		



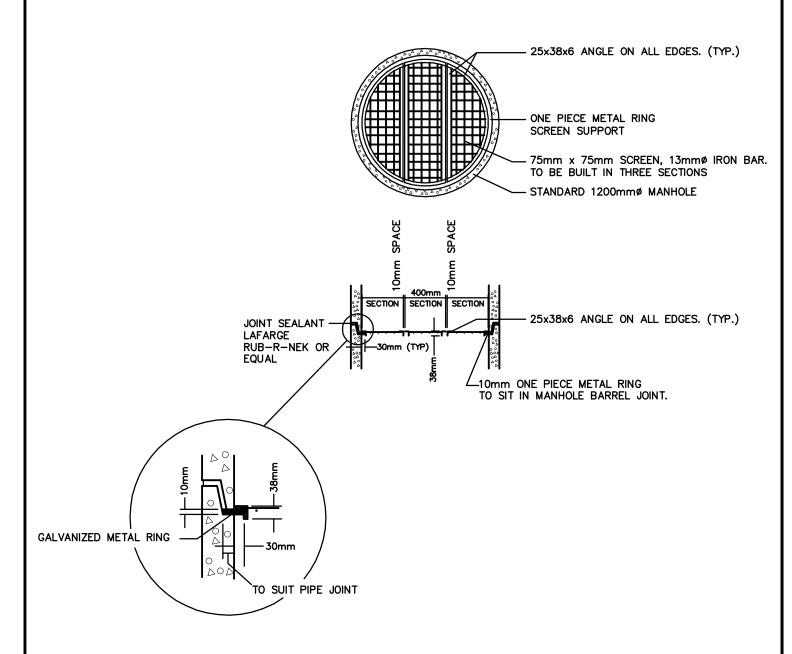
NOTE: 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER



Rev.		إلا الكلام الكلام الكلام	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	MANHOLE PLU	3
Rev.		42 Well	760.614.5660		
Rev.		File No.: GP6033068	Design:	Approved:	Figure 5_45
Date:	2009-04-16	Drawn: OM	Scale NTS		1-45

ALL STEEL WORK TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.



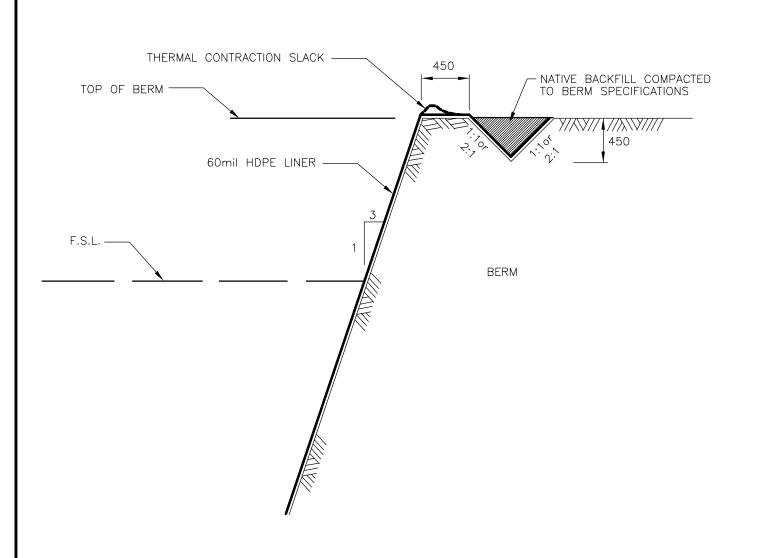
#### NOTES:

- 1. ALL DIMENSIONS IM 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



Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SCREEN	
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_46
Date: 20	009-04-16	Drawn: OM	Scale NTS		r – 40

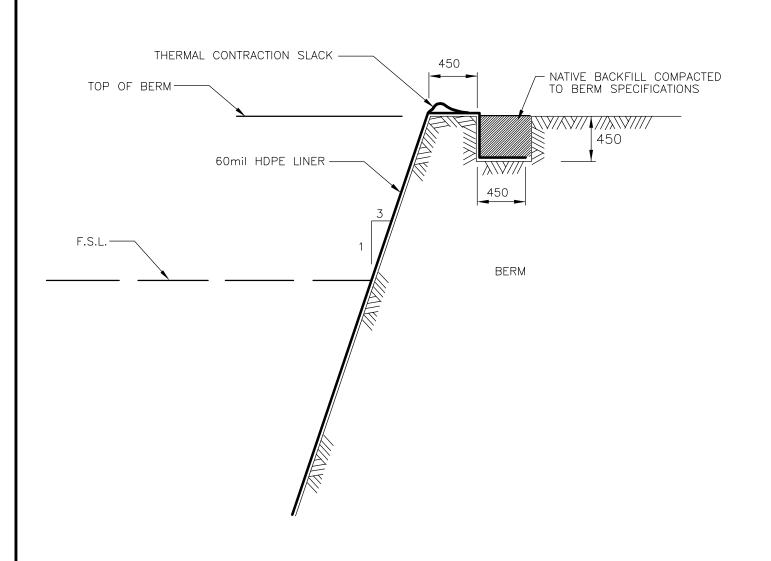


NOTE:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev.		≲> Stewart Weir		V-TYPE ANCHOR TR	RENCH
Rev.		70 Well	780.814.5880		
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_47
Date:	2009-04-16	Drawn: OM	Scale NTS		F-4/

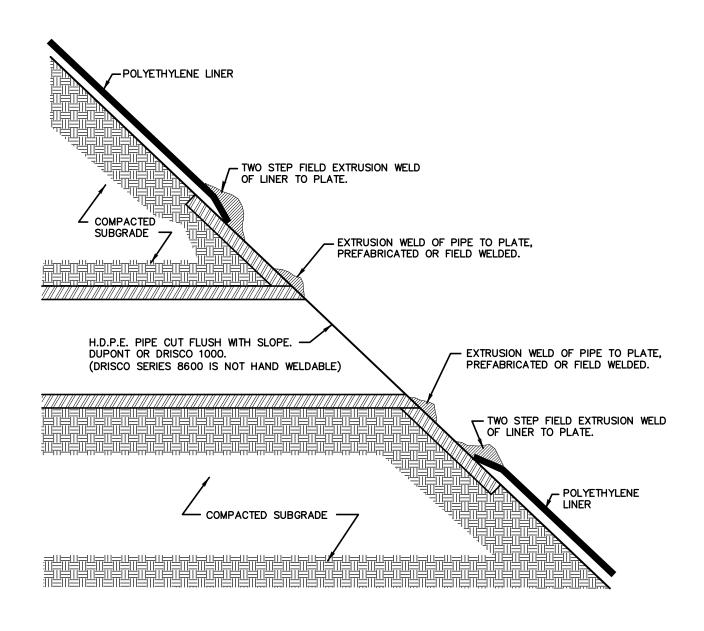


1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	STANDARD ANCHOR	rench
Rev.		File No.: GP6033068	Design:	Approved:	Figure F-48
Date:	2009-04-16	Drawn: OM	Scale NTS	1	<sub> </sub> г – 40



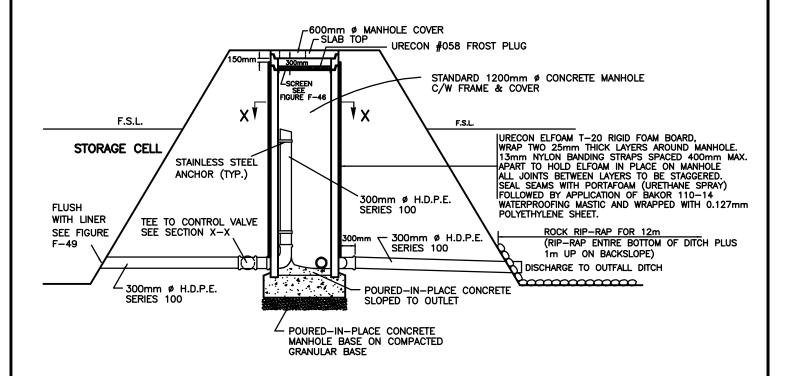
NOTE

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER



Rev.		১১ Stewart Weir	Grande Fraine, Alberta	H.D.P.E. PIPE PENET	
Rev.		70 77611	780.814.5880	WITH FLANGE PL	AIL
Rev.		File No.: GP6033068	Design:	Approved:	Figure F-49
Date:	2009-04-16		Scale NTS		

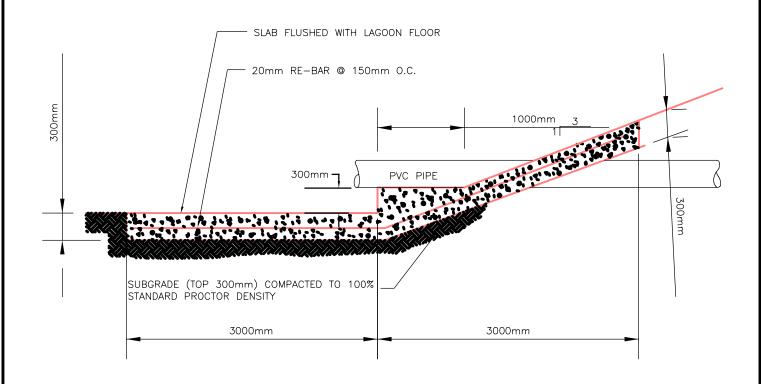


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE
  AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT
  MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4
  FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.
- 3. SECTION 'X-X' SEE FIGURE F-42.

### TOWN OF PEACE RIVER



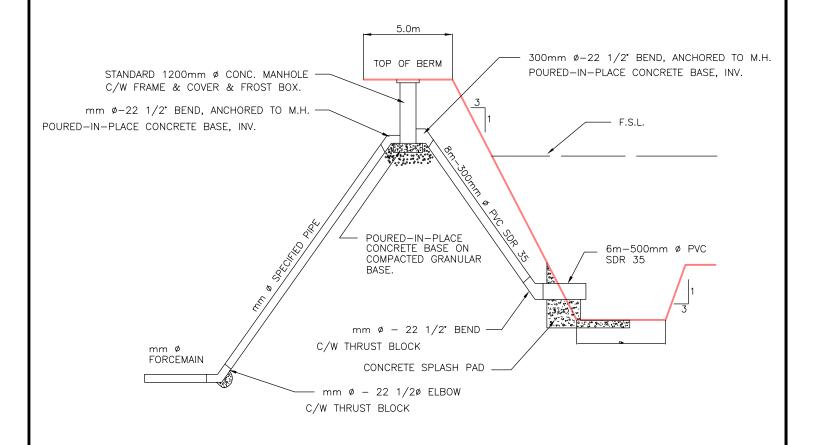
Rev.	ನ್ನು Stewa Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	DISCHARGE OVERFLOW STRU STORAGE CELL TO OUTFA	
Rev.	40 Well	780.814.3880	STORAGE CELL TO OUTPA	LL DIICH
Rev.	File No.: GP6033068	Design:	Approved:	Figure E_50
Date: 2009	-04-16 Drawn: OM	Scale NTS	]	F-30



- 1. CONCRETE THICKNESS 300mm UNLESS OTHERWISE STATED.
- 2. CONCRETE COMPRESSIVE STRENGTH MINIMUM 27.5 MPa  $\odot$  28 DAYS.
- 3. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 4. 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

Rev.			039 78th Avenue Prairie, Alberta	CONCRETE	SPLASH PA	D DETAILS
Rev.	<b>45 00</b>	700.014	.3000			
Rev.	File No.: G	SP6033068 Design:		Approved:		Figure F_51
Date: 20	009-04-16 Drawn: Ol	M Scale	NTS			

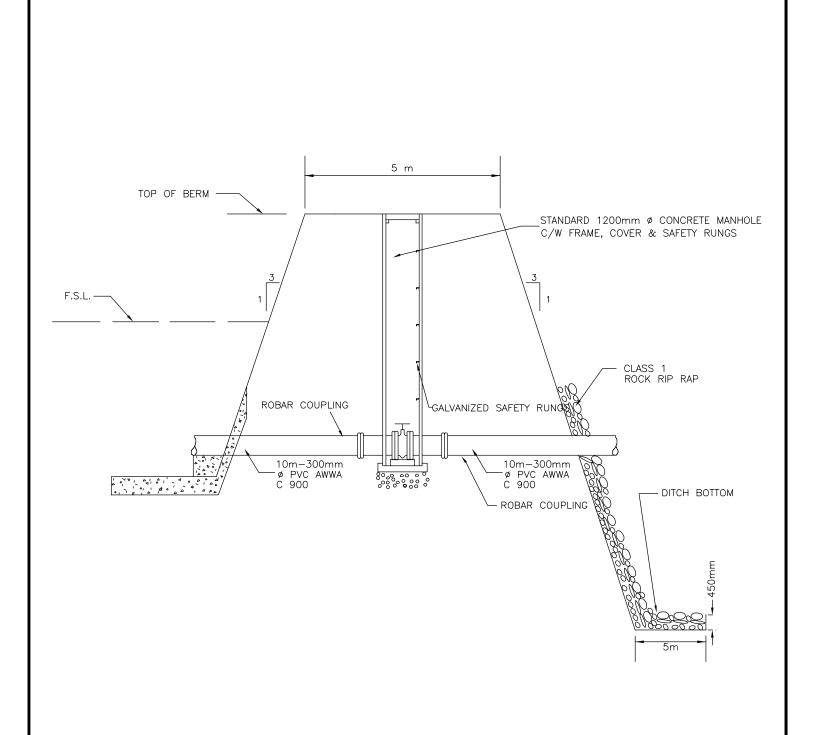


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. PROPORTIONING AND PRODUCING QUALITY CONCRETE
  AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT
  MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4
  FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

## TOWN OF PEACE RIVER



Rev.		১১ Stewart Weir	Grande Fraine, Alberta		INLET	MANHOLE	DETAILS	5
Rev.		70 77611	780.814.5880					
Rev.		File No.: GP6033068	Design:	Approved:			Figure	F_52
Date:	2009-04-16	Drawn: OM	Scale NTS					F-32

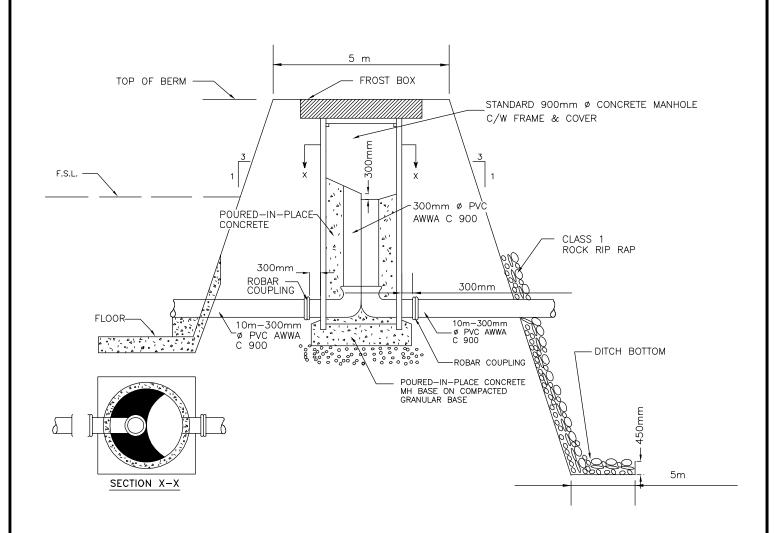


1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



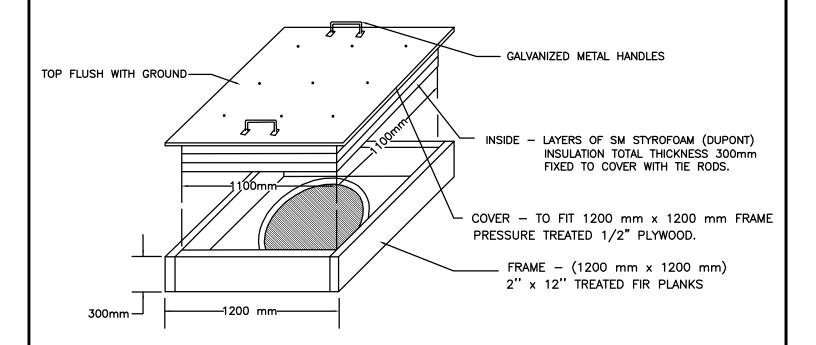
Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	DISCHARGE CONTROL	DETAI	LS
Rev.		File No.: GP6033068	Design:	Approved:	Figure	<b>E_5</b> 3
Date:	2009-04-16	Drawn: OM	Scale NTS			г — <b>3</b> 3



- 1. ALL DIMENSIONS IM 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

Rev. Rev.	الالالالالالالالالالالالالالالالالالال	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	EMERGENCY DISCHARGE MANHOLE DETAILS	
Rev.	File No.: GP6033068	Design:	Approved:	Figure F_54
Date: 2009-04-16	Drawn: OM	Scale NTS		r – 5 <del>4</del>

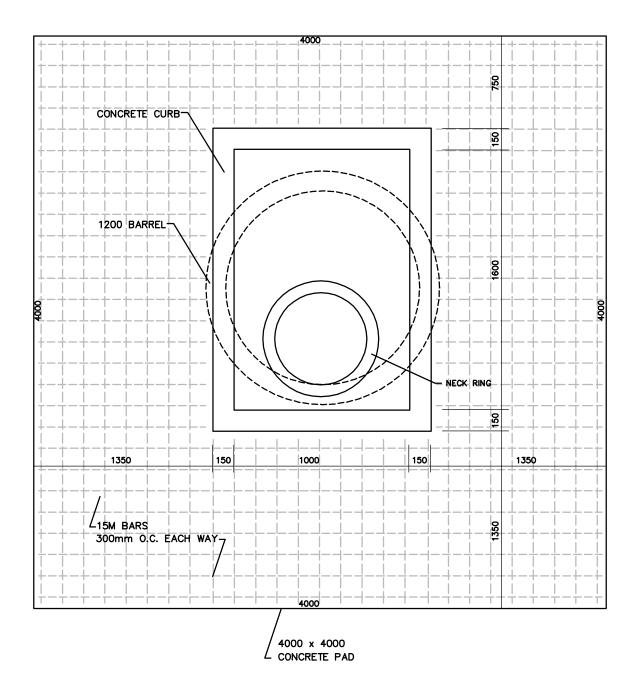


1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

## TOWN OF PEACE RIVER



Rev.	১১ Stewar	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	FRC	ST BOX DETA	AIL.
Rev.	File No. 006077069	D1	A		Figure
Rev. Date: 2009-04-16	File No.: GP6033068  Drawn: OM	Design: Scale NTS	Approved:		F-55

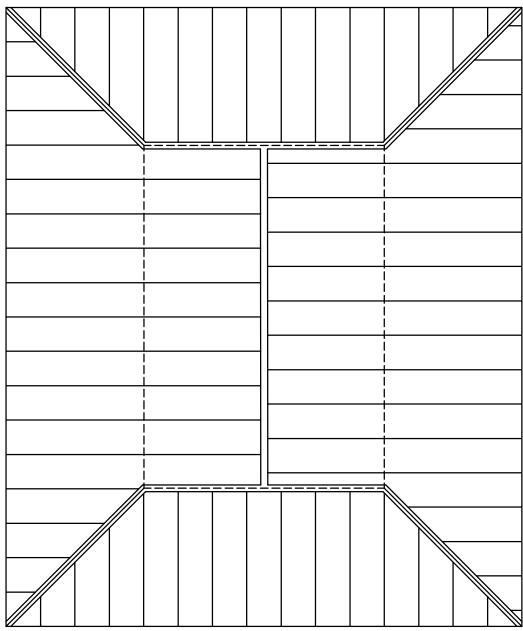


- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
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  MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4
  FOR CAST—IN—PLACE AND PRECAST CONCRETE RESPECTIVELY.

## TOWN OF PEACE RIVER



Rev. Rev.	১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PLAN	* 1 - * *	TRUCK PING ST		SEWAGE
Rev.	File No.: GP6033068	Design:	Approved:			Figure	F-56
Date: 2009-04-16	Drawn: OM	Scale NTS					F - 36



## TOWN OF PEACE RIVER





Rev. Rev.		১১ Stewart Weir	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL SHEET LA	YOUT
Rev.		File No.: GP6033068	Design:	Approved:	Figure F_57
Date:	2009-04-16	Drawn: OM	Scale NTS		