

**FILL SECTION**

- 3:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

NOTE: THIS STANDARD IS INTENDED FOR LOW VOLUME ROADS THAT WILL BE GRAVEL SURFACED ONLY AND WILL HAVE LITTLE OR NO TRUCK TRAFFIC. TYPICALLY THIS 7.0m ROADWAY IS USED ON ROADS WITH AADTS < 25.


**CUT SECTION**

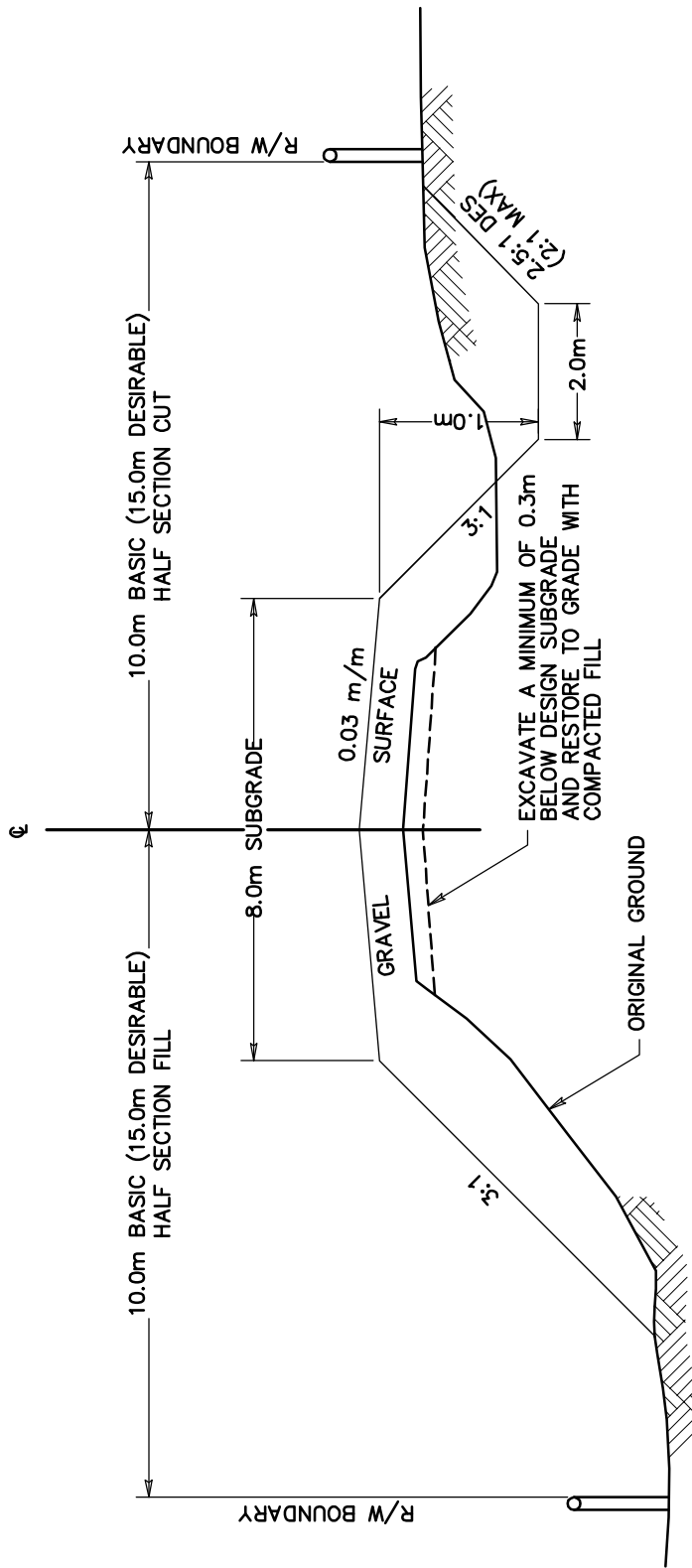
- WIDTH OF DITCH – 2.0m STANDARD; V-DITCH
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR GRADING &amp; GRAVEL SURFACING</b> RLU-207G		
Rev.					File No.: GP6033068
Rev.			Date: 2009-04-16	Drawn:	Scale: NTS



**NOTE:** THIS STANDARD IS INTENDED FOR LOW VOLUME LOCAL ROADS WHICH WILL BE GRAVEL SURFACED ONLY. TYPICALLY THIS 8.0m ROADWAY IS FOR ROADS WITH AN AADTS < 100.

**FILL SECTION**

- 3:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE


**CUT SECTION**

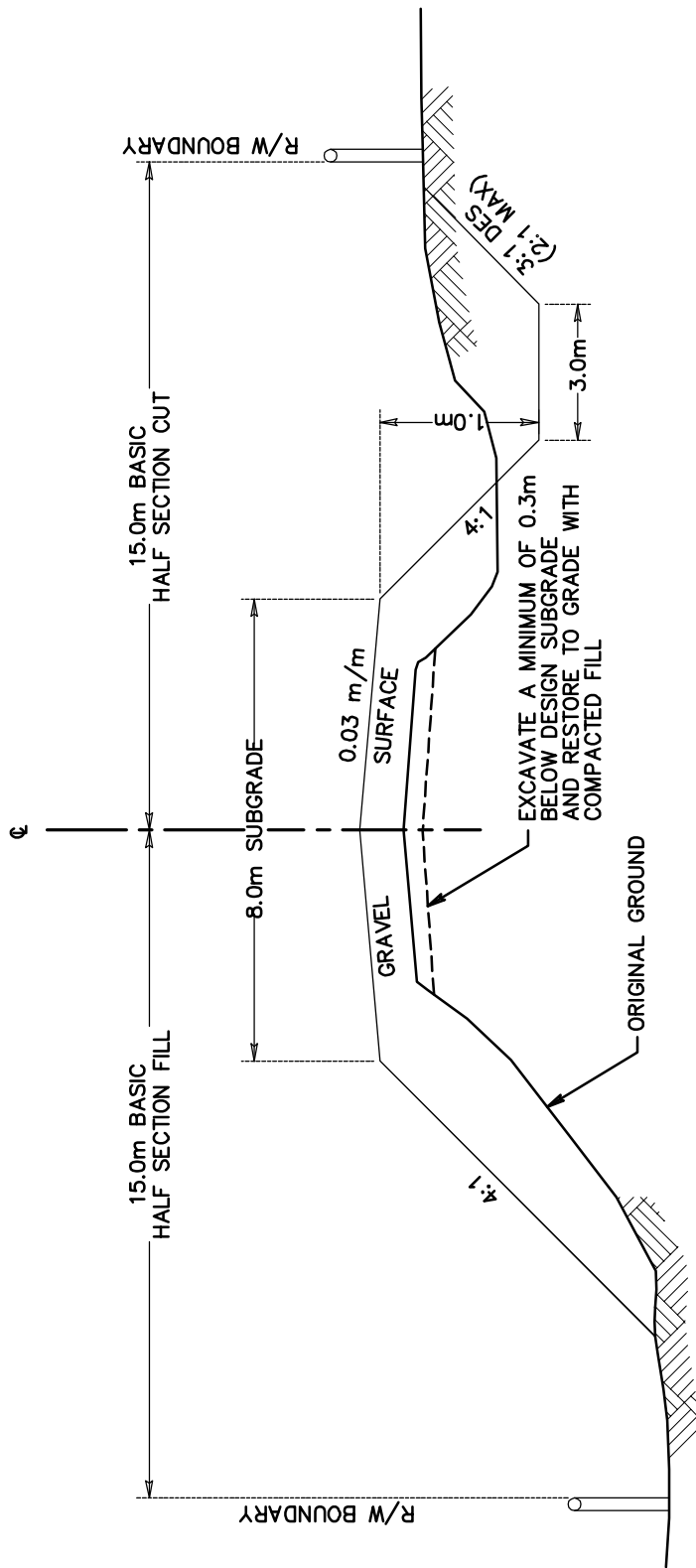
- WIDTH OF DITCH - 2.0m STANDARD; V-DITCH MINIMUM
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR GRADING &amp; GRAVEL SURFACING</b>		<b>RLU-208G(a)</b>	
Rev.						
Rev.						
Rev.	File No.: GP6033068	Design:	Approved:		Figure G-02	
Date: 2009-04-16	Drawn:	Scale NTS				



**FILL SECTION**

- 4:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

NOTE: THIS STANDARD IS INTENDED FOR LOW VOLUME LOCAL ROADS WHICH WILL BE GRAVEL SURFACED ONLY. THIS 8.0m ROADWAY IS TYPICALLY USED FOR AADTS < 200.

**CUT SECTION**

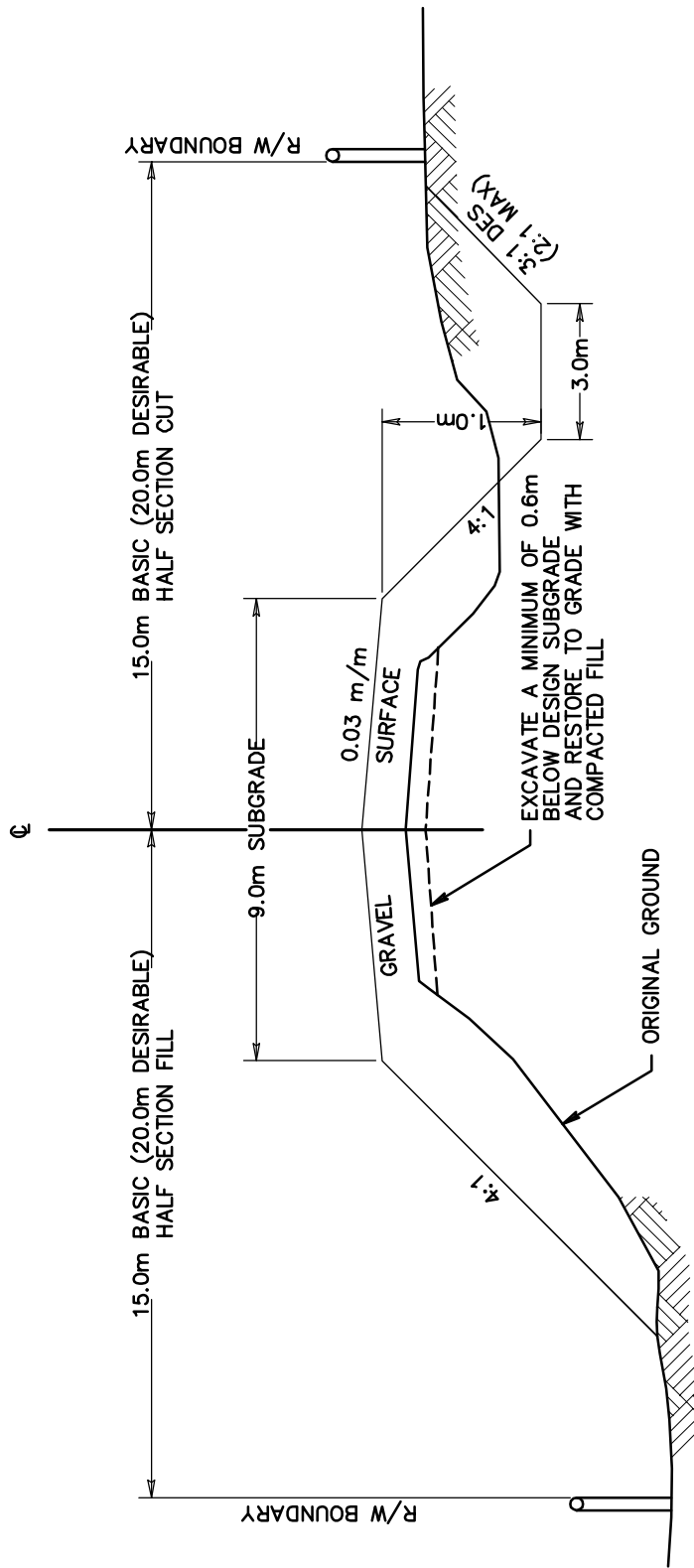
- WIDTH OF DITCH - 3.0m STANDARD; V-DITCH MINIMUM
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR GRADING &amp; GRAVEL SURFACING</b> RLU-208G(b)	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		



**FILL SECTION**

- 4:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

NOTE: THIS STANDARD IS INTENDED FOR LOW VOLUME LOCAL ROADS WHICH WILL BE GRAVEL SURFACED ONLY. THIS 9.0m ROADWAY IS TYPICALLY USED FOR AADTS > 200.


**CUT SECTION**

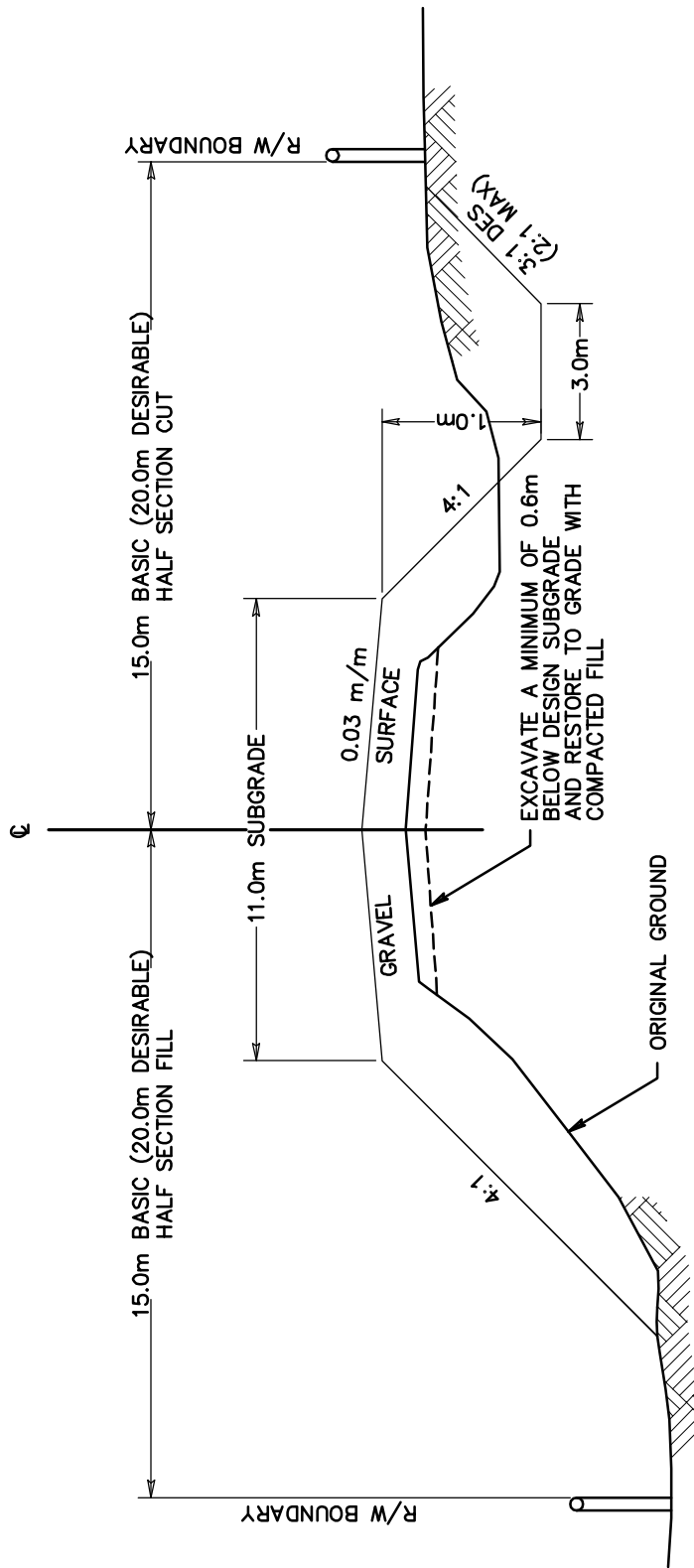
- WIDTH OF DITCH - 3.0m STANDARD; V-DITCH MINIMUM
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR GRADING &amp; GRAVEL SURFACING</b>		<b>RLU-209G</b>
Rev.					
Rev.			Date: 2009-04-16	Drawn:	Scale NTS



**FILL SECTION**

- 4:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

**CUT SECTION**

NOTE: THIS STANDARD IS INTENDED FOR LOW VOLUME LOCAL ROADS WHICH WILL BE GRAVEL SURFACED ONLY. THIS 10.0m ROADWAY IS TYPICALLY USED FOR AADTS > 200 WHERE TRUCK VOLUMES WARRANT ADDITIONAL SUBGRADE WIDTH.


**CUT SECTION**

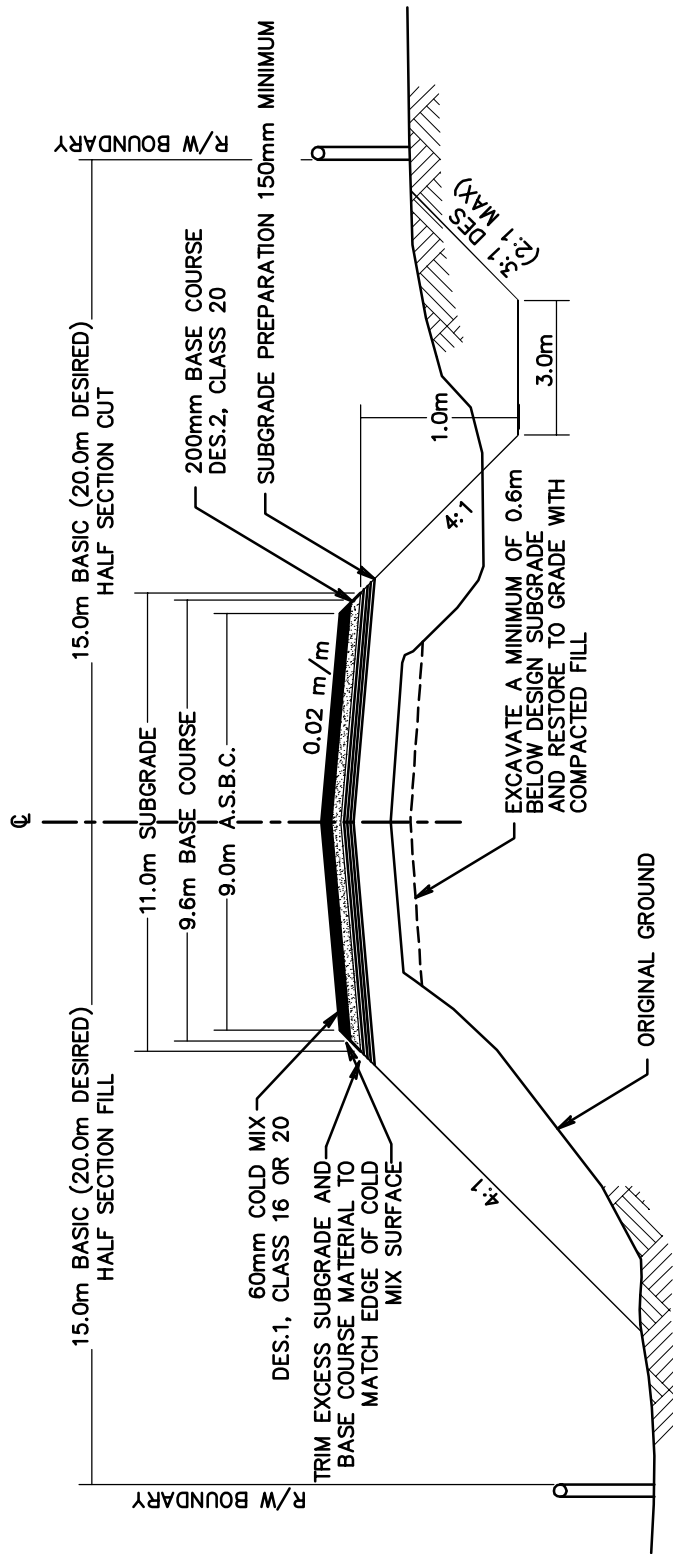
- WIDTH OF DITCH - 3.0m STANDARD; V-DITCH MINIMUM
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR GRADING &amp; GRAVEL SURFACING RLU-210G</b>	
Rev.				
Rev.			Figure	G-05
Date: 2009-04-16	File No.: GP6033068	Design:	Scale	NTS
	Drawn:			



**FILL SECTION**

- 4:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

**CUT SECTION**

- WIDTH OF DITCH – 3.0m STANDARD; V-DITCH MINIMUM
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

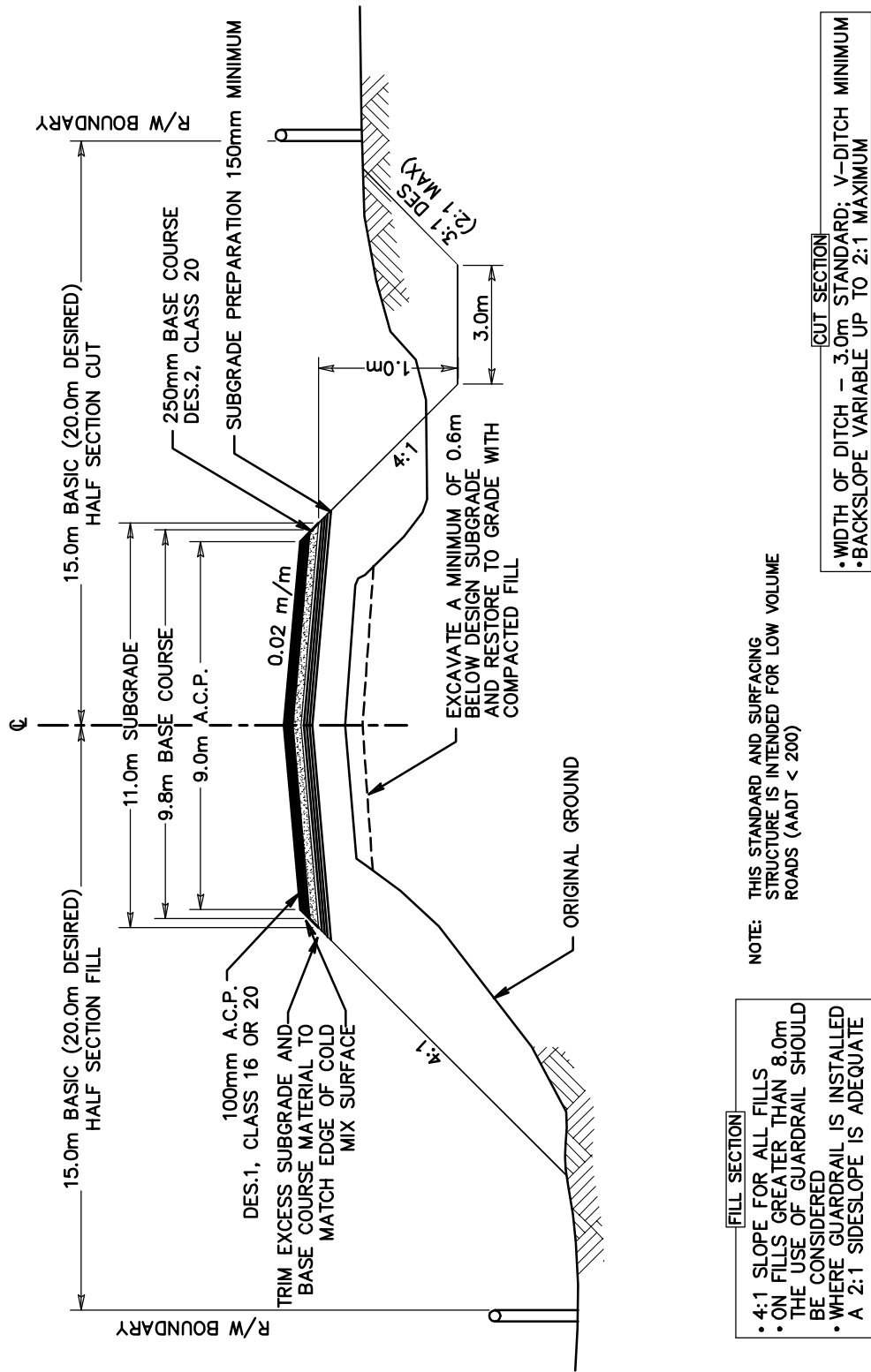
NOTE: THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOW VOLUME ROADS (AADT < 200) WITH MINIMAL TRUCK TRAFFIC.

# TOWN OF PEACE RIVER

## General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR ASPHALT STABILIZED          BASE COURSE SURFACING PAVED LOCAL 9.0m</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-06
Date: 2009-04-16	Drawn:	Scale NTS		

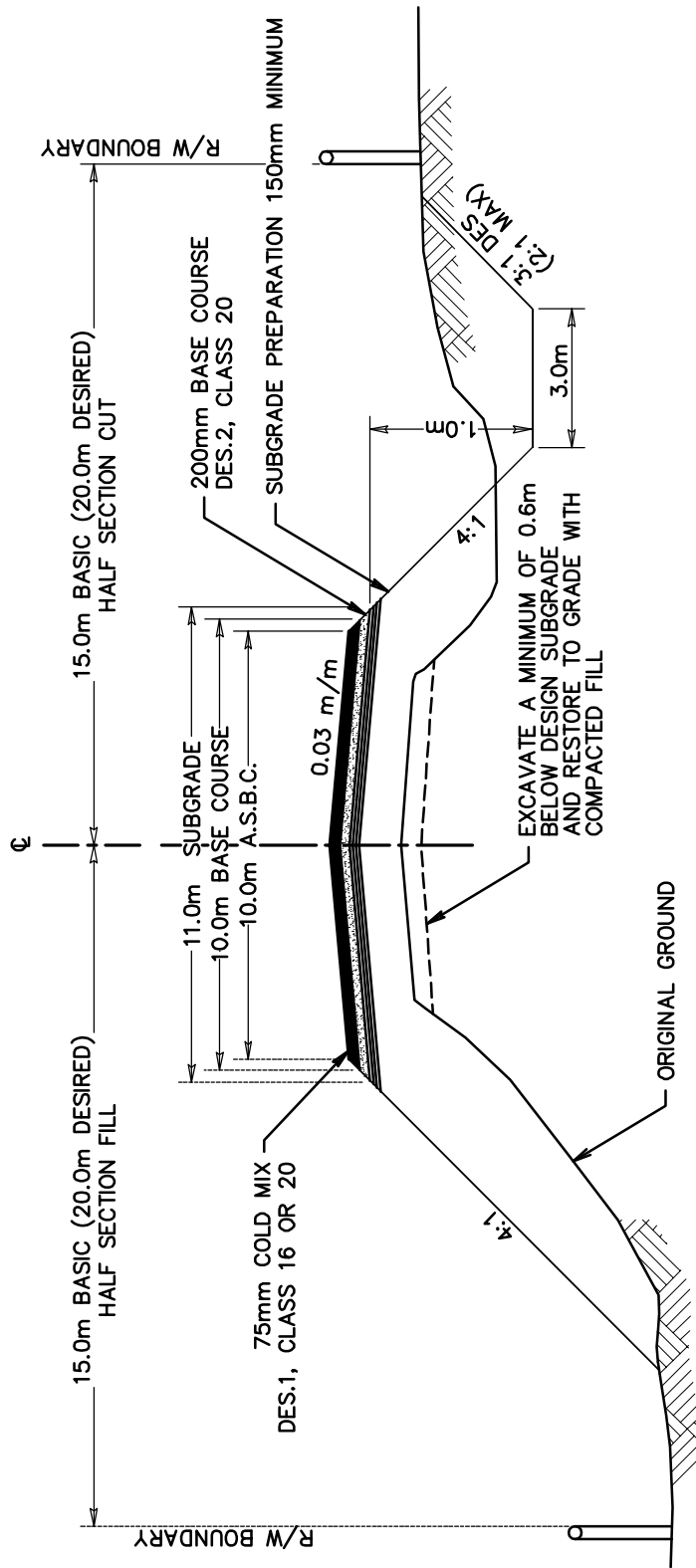


# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL CROSS SECTION FOR ASPHALT CONCRETE PAVEMENT SURFACING PAVED LOCAL ROAD 9.0m	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-07
Date: 2009-04-16	Drawn:	Scale NTS		



- FILL SECTION**
- 4:1 SLOPE FOR ALL FILLS
  - ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
  - WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE


NOTE: THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOCAL ROADS WITH AN AADT < 500.

- CUT SECTION**
- WIDTH OF DITCH – 3.0m STANDARD; V-DITCH MINIMUM
  - BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

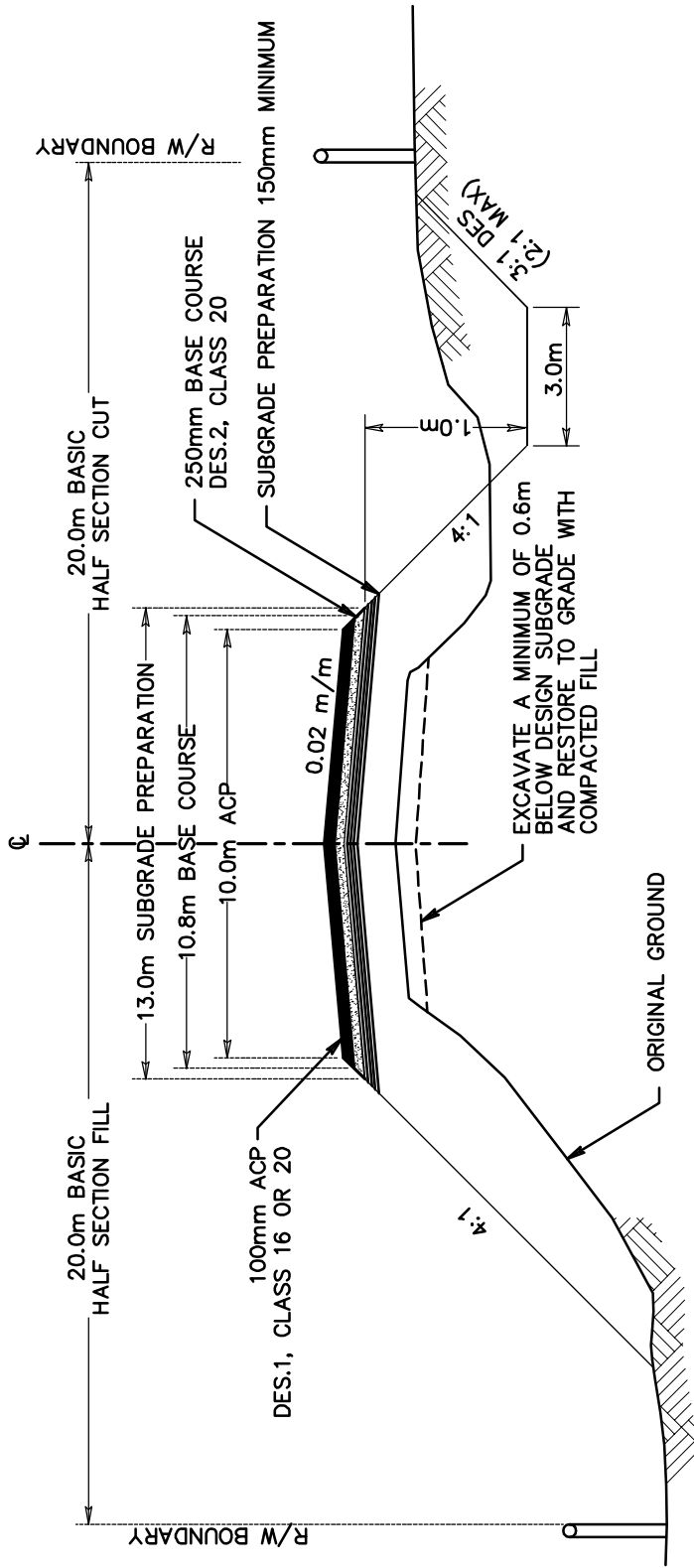
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR ASPHALT STABILIZED BASE COURSE SURFACING (EXISTING) ARTERIAL 9.0m</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-08
Date: 2009-04-16	Drawn:	Scale NTS		





- FILL SECTION**
- 4:1 SLOPE FOR ALL FILLS
  - ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
  - WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE


NOTE: THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOCAL ROADS WITH AN AADT < 500.

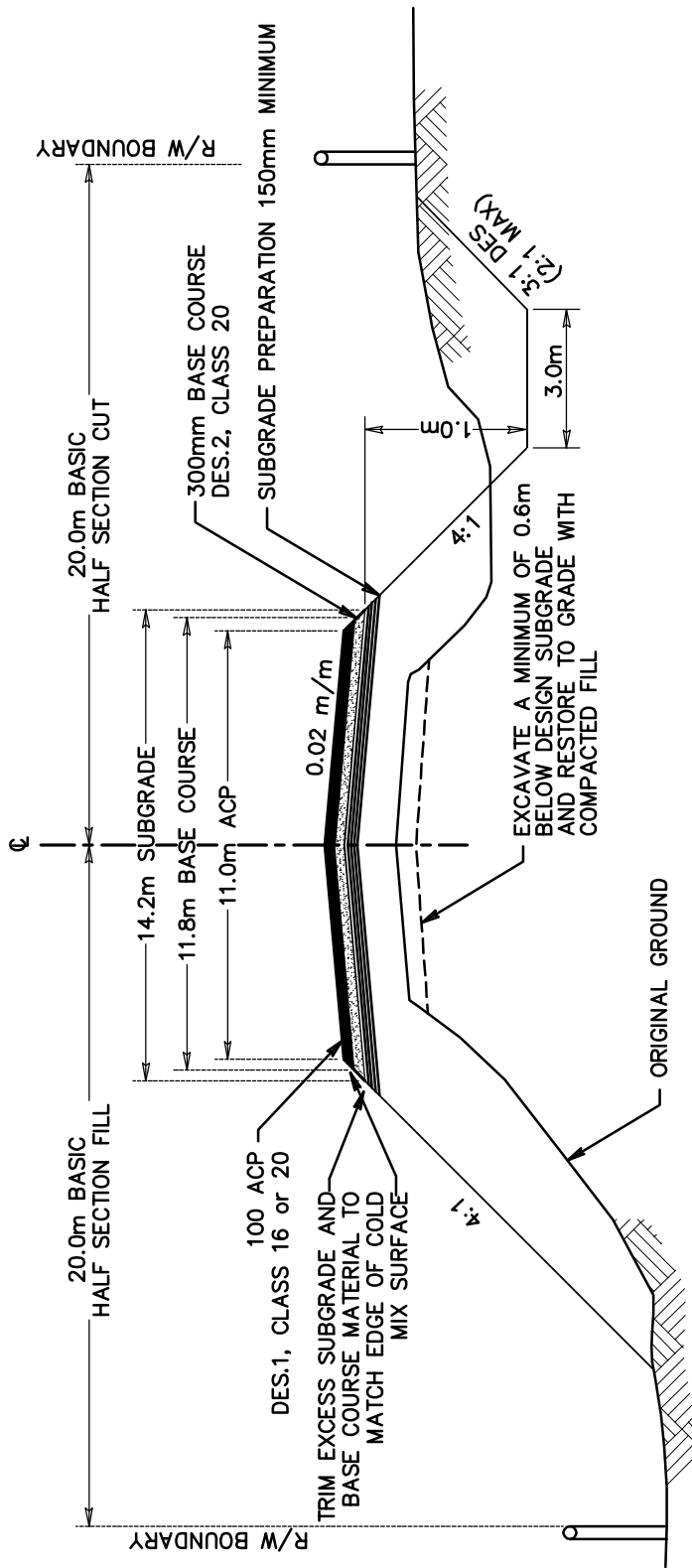
- CUT SECTION**
- WIDTH OF DITCH - 3.0m STANDARD; V-DITCH MINIMUM
  - BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION FOR ASPHALT CONCRETE PAVEMENT SURFACING (PROPOSED) ARTERIAL 10.0m</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		



NOTE: THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOCAL ROADS WITH AN AADT < 2000.

- FILL SECTION**
- 4:1 SLOPE FOR ALL FILLS
  - ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
  - WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

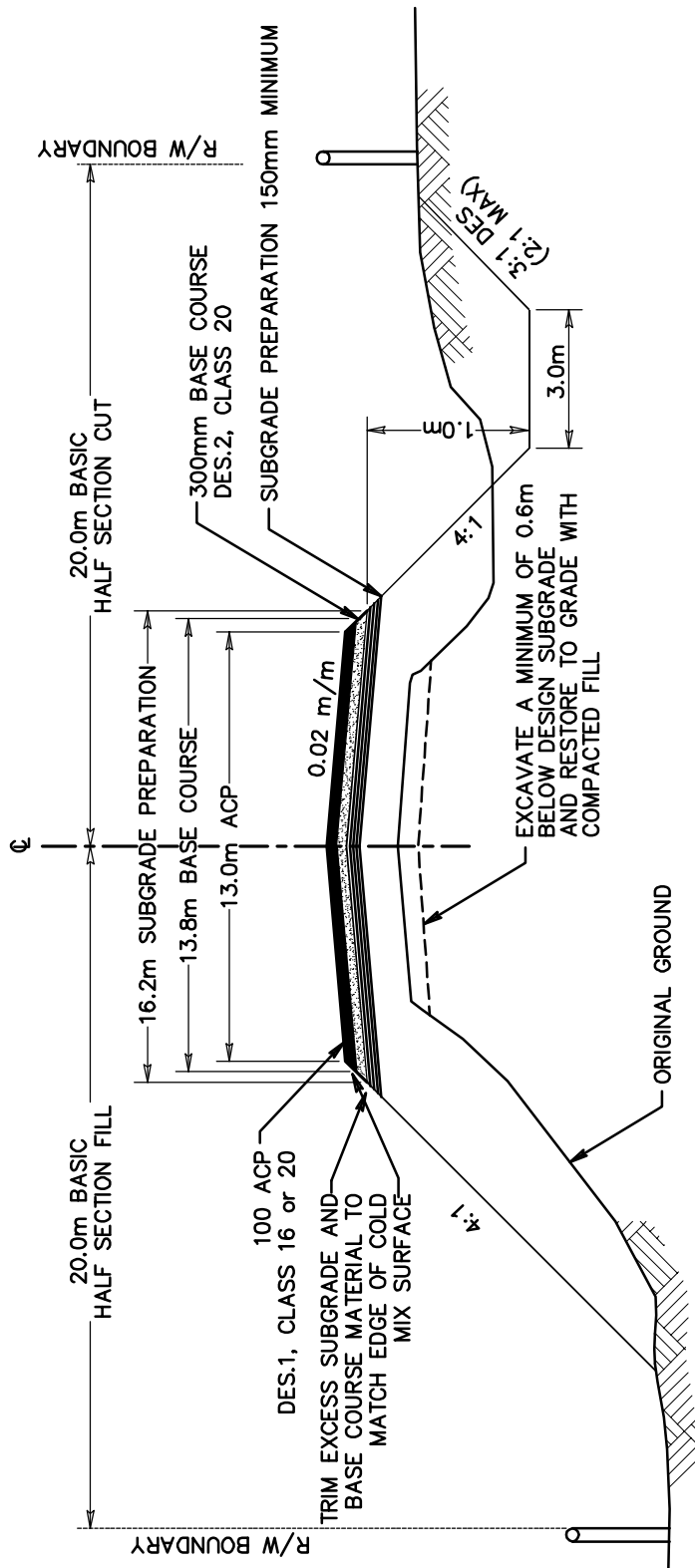
- CUT SECTION**
- WIDTH OF DITCH - 3.0m STANDARD; V-DITCH MINIMUM
  - BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL CROSS SECTION FOR ASPHALT CONCRETE PAVEMENT SURFACING ARTERIAL 11m	
Rev.				
Rev.			File No.: GP6033068	Design:
Date: 2009-04-16	Drawn:	Scale NTS		G-10



**FILL SECTION**

- 4:1 SLOPE FOR ALL FILLS
- ON FILLS GREATER THAN 8.0m THE USE OF GUARDRAIL SHOULD BE CONSIDERED
- WHERE GUARDRAIL IS INSTALLED A 2:1 SIDESLOPE IS ADEQUATE

NOTE: THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOCAL ROADS WITH AN AADT > 2000.

**CUT SECTION**

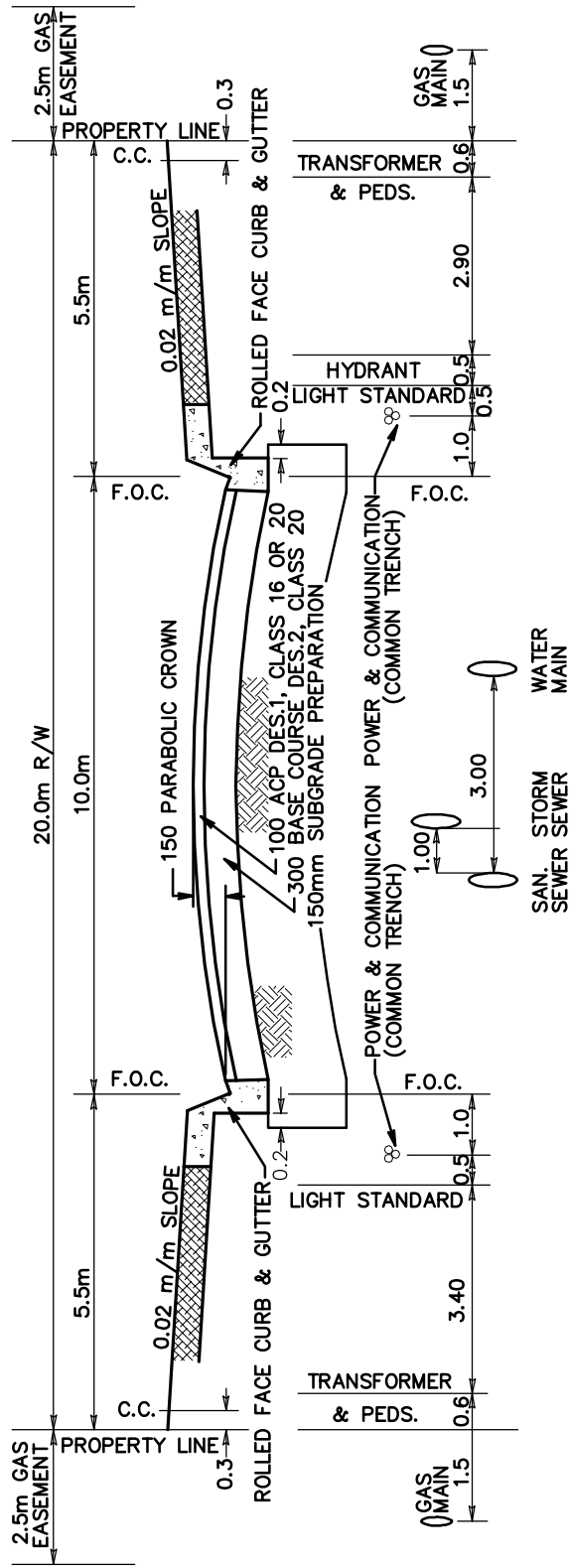
- WIDTH OF DITCH - 3.0m STANDARD; V-DITCH MINIMUM
- BACKSLOPE VARIABLE UP TO 2:1 MAXIMUM

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL CROSS SECTION FOR ASPHALT CONCRETE PAVEMENT SURFACING ARTERIAL 13m	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-11
Date: 2009-04-16	Drawn:	Scale NTS		



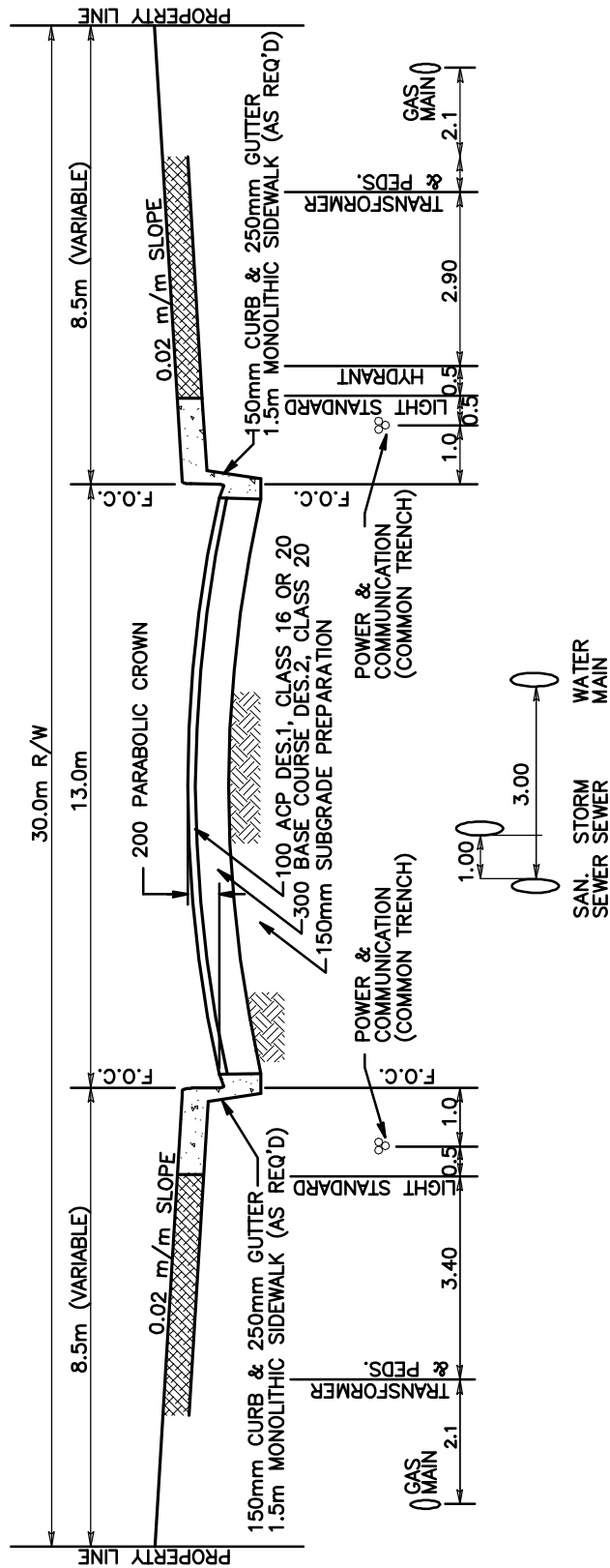
- NOTES:
1. THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOCAL ROADS WITH AN AADT < 2000
  2. WICK DRAIN SHALL BE PLACED BELOW THE CURB BETWEEN THE SUBGRADE AND BASE COURSE AND CONNECTED TO THE NEAREST CATCH BASIN.
  3. UNDERGROUND UTILITIES LOCATIONS TO BE VERIFIED WITH MUNICIPALITY.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION &amp; UTILITIES LAYOUT URBAN 10.0m</b>	
Rev.				
Rev.			File No.: GP6033068	Design:
Date: 2009-04-16	Drawn:	Scale NTS		




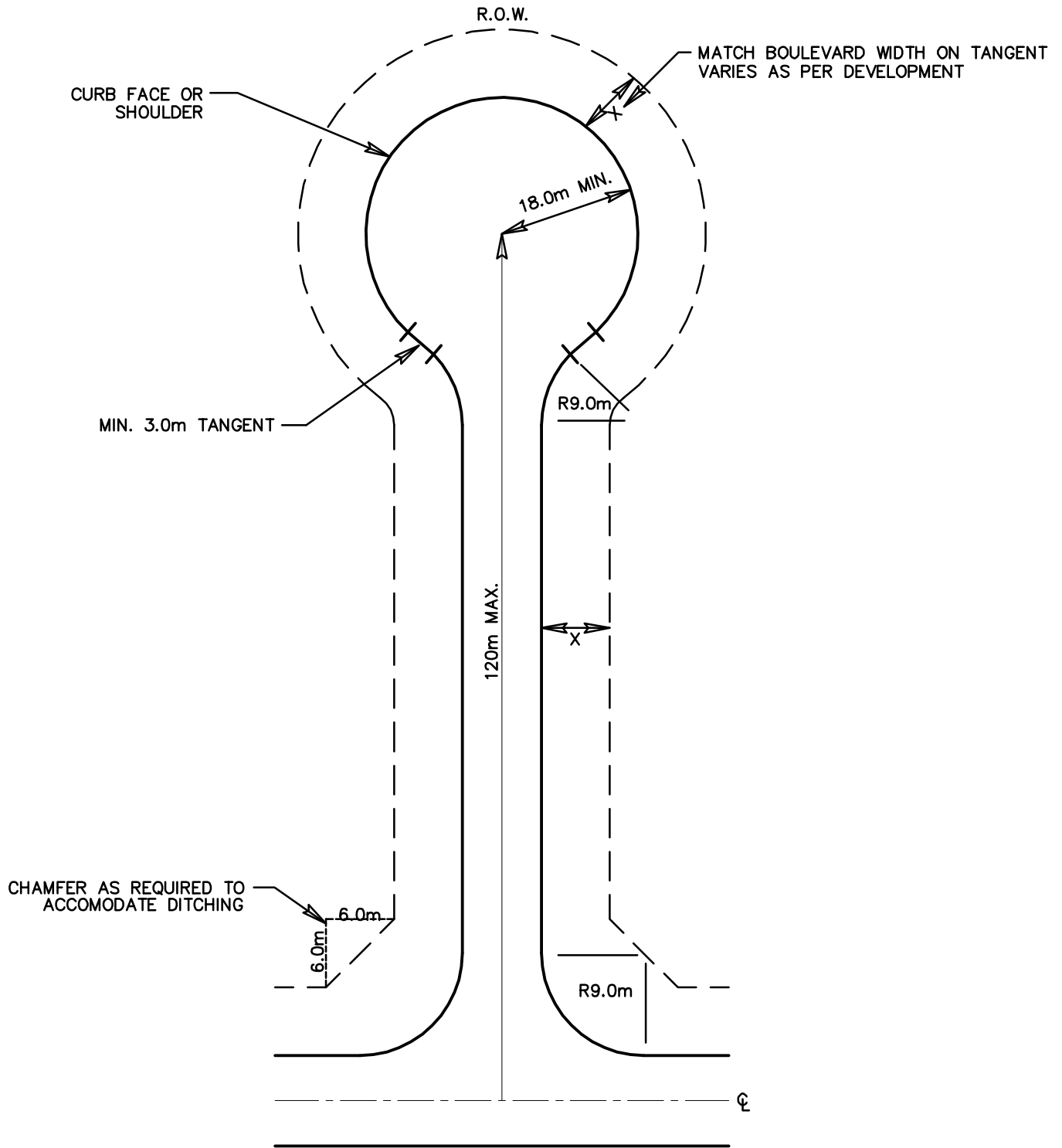
- NOTES:
1. THIS STANDARD AND SURFACING STRUCTURE IS INTENDED FOR LOCAL ROADS WITH AN AADT > 2000.
  2. WICK DRAIN SHALL BE PLACED BELOW THE CURB BETWEEN THE SUBGRADE AND BASE COURSE AND CONNECTED TO THE NEAREST CATCH BASIN.
  3. ALL DIMENSION IN METRES UNLESS OTHERWISE NOTED.
  4. UNDERGROUND UTILITIES LOCATION TO BE VERIFIED WITH MUNICIPALITY.
  5. TYPICAL FOR 13.0m. WIDTH PAVING.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CROSS SECTION &amp; UTILITIES LAYOUT URBAN 11.5m to 13.0m</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		

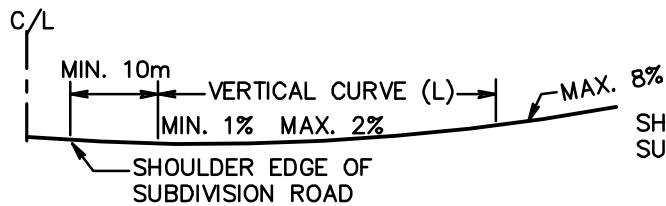
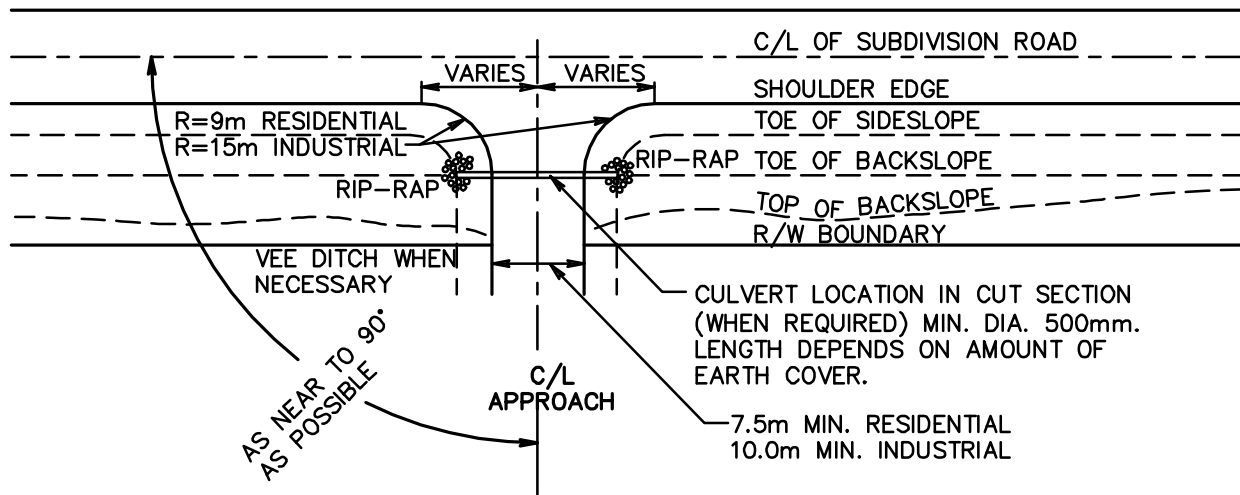


# TOWN OF PEACE RIVER

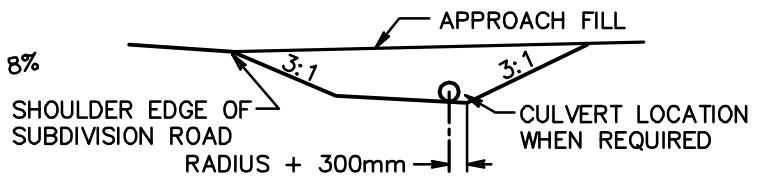
General Municipal Servicing Standards



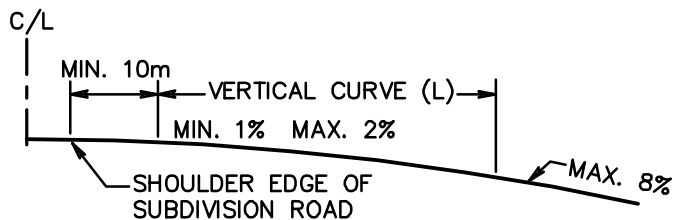
Rev.	<b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL CUL-DE-SAC DETAIL          URBAN AND RURAL STANDARD</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-14
Date: 2009-04-16	Drawn:	Scale NTS		



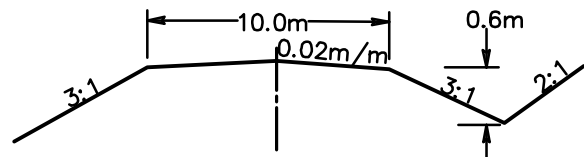
PROFILE - APPROACH IN CUT



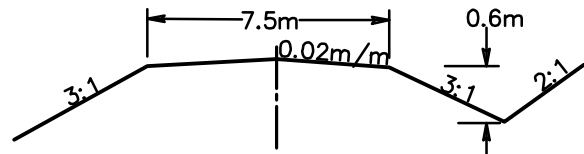
DETAIL OF DITCH & CULVERT LOCATION



PROFILE - APPROACH IN FILL



MINIMUM INDUSTRIAL APPROACH CROSS SECTION



MINIMUM RESIDENTIAL APPROACH CROSS SECTION

MINIMUM LENGTH OF VERTICAL CURVE		
ALGEBRAIC DIFFERENCE IN GRADIENT (%)	LENGTH L (METRES)	
	CREST	SAG
1	5	7.5
2	12	15
3	18	23
4	25	30
5	30	38
6	37	46
7		46
8		46
9		46

**NOTE**  
ALL ENTRANCES ARE TO BE FROM THE INTERNAL ROAD SYSTEM AND ARE TO PROVIDE REASONABLE ACCESS TO THE LOTS, EACH LOT IS TO HAVE A PRIVATE APPROACH.

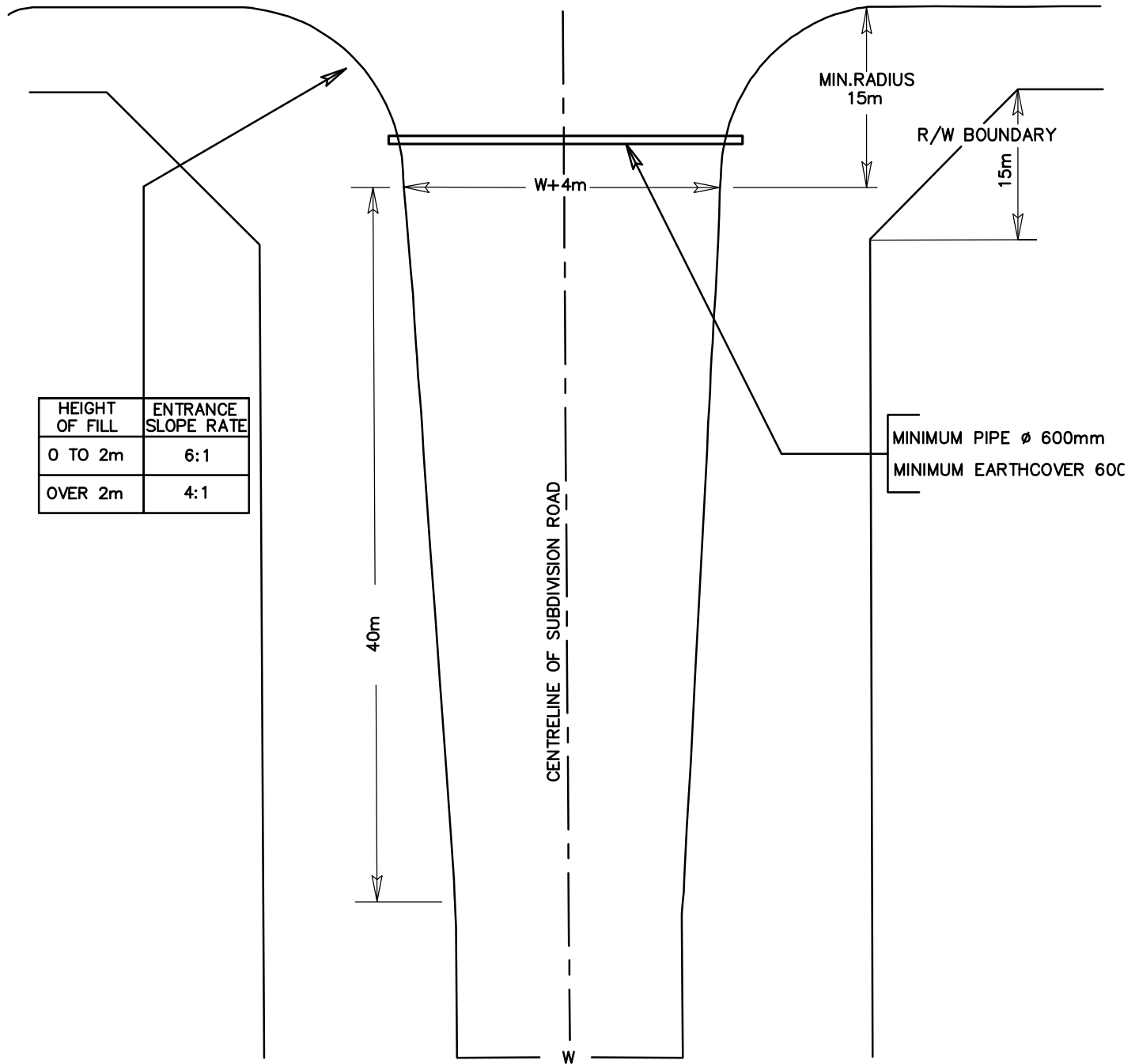
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>RESIDENTIAL / INDUSTRIAL APPROACH STANDARD</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-15
Date: 2009-04-16	Drawn:	Scale NTS		

CENTRELINE OF ROADWAY ALLOWANCE




W = FINISHED WIDTH

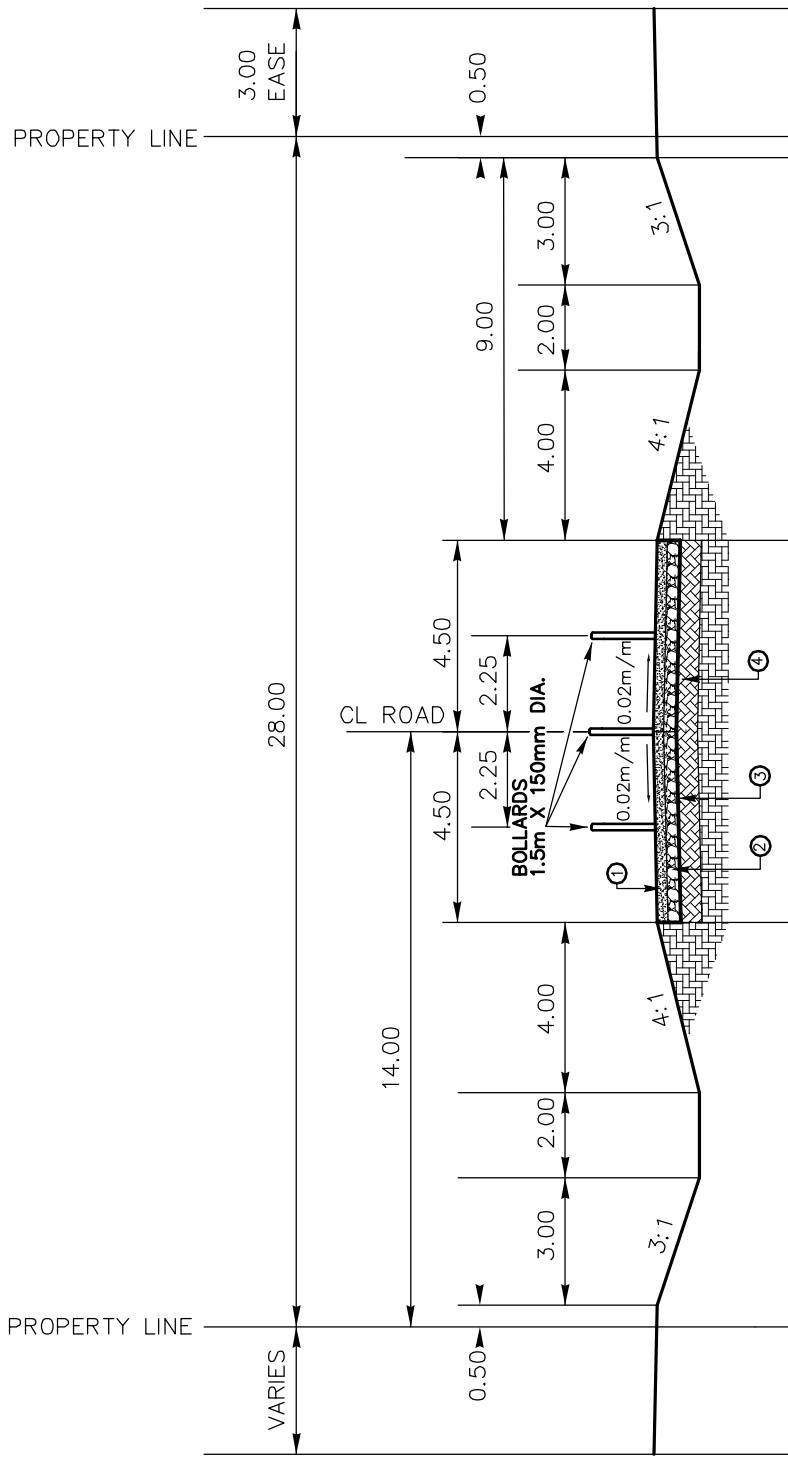
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	MAJOR INTERSECTION LAYOUT INDUSTRIAL – RURAL STANDARD		Figure G-16
Rev.					
Rev.			Date: 2009-04-16	Drawn:	Scale NTS






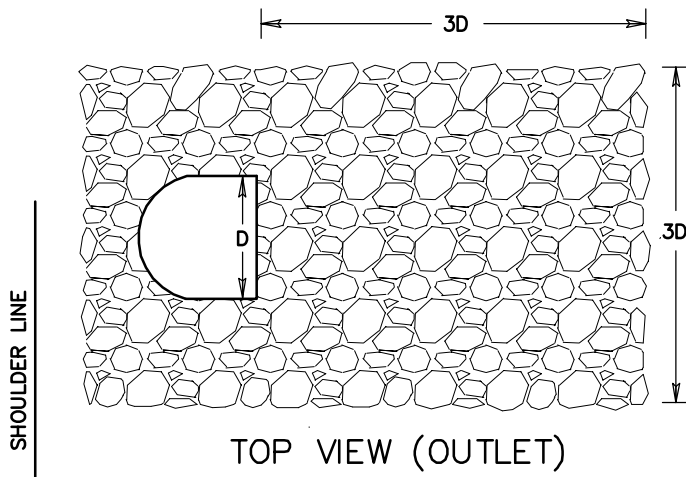
- NOTES:
1. 50mm DEPTH COMPACTED GRAVEL/SHALE 10mm - 20mm DIAMETER.
  2. 75mm DEPTH 20mm DIAMETER CRUSHED GRAVEL BASE COMPACTED TO 98% S.P.D.
  3. WOVEN FABRIC UNDER GRAVEL (TENSAR SS1 GEOGRID/NILEX 2006 AMOCO GEOTEXTILE OR APPROVED EQUIVALENT)
  4. 150mm DEPTH SUBGRADE COMPACTED TO 98% S.P.D. ON:
    - A) NATIVE SUBGRADE - FREE OF TOPSOIL, ROOTS AND/OR DEBRIS.
    - B) COMMON FILL - CLEAN CLAY OR GRANULAR MATERIAL PLACED OVER APPROVED SUBGRADE AND COMPACTED TO 98% S.P.D.
  5. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
  6. TOWN OF PEACE RIVER MAY ACCEPT ALTERNATE EASEMENT WIDTH.

# TOWN OF PEACE RIVER

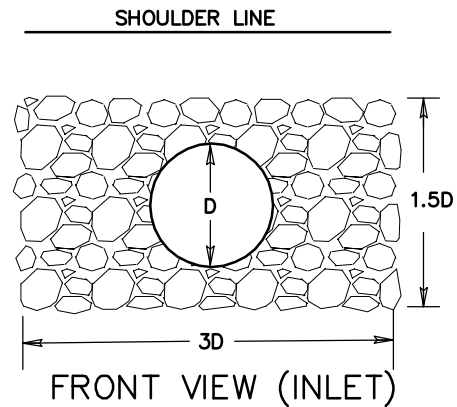
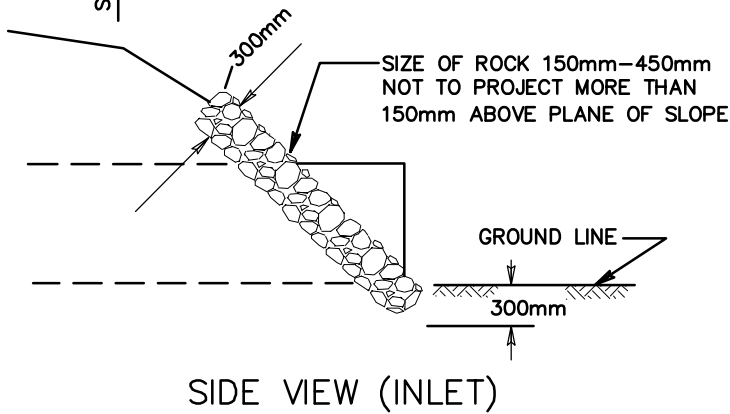
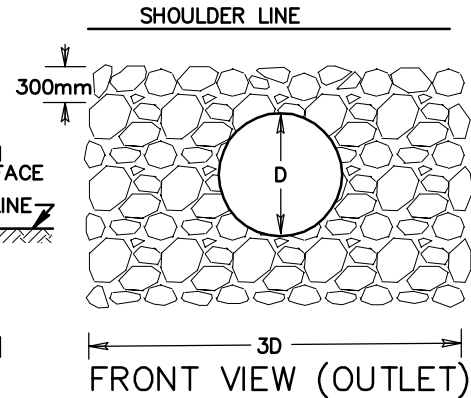
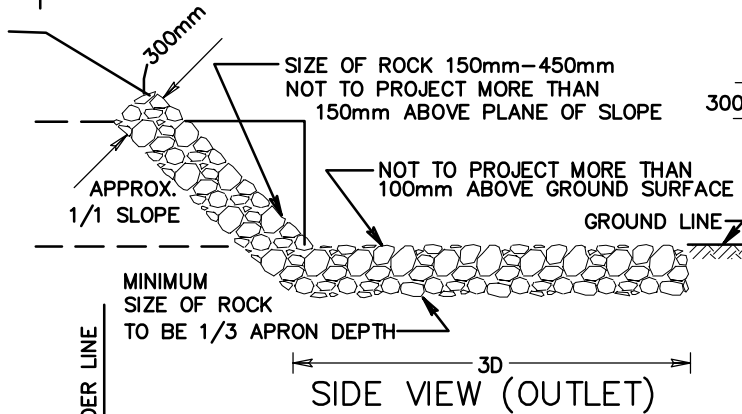
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>EMERGENCY LANE ACCESS DETAIL</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-17
Date: 2009-04-16	Drawn:	Scale NTS		



DIAMETER OF PIPE D	EQUIVALENT SIZE OF PIPE ARH
400mm	450mmX340mm
500mm	580mmX390mm
600mm	680mmX480mm
800mm	930mmX645mm
1000mm	1160mmX800mm
1200mm	1425mmX960mm
1400mm	1660mmX1090mm
1600mm	1870mmX1230mm
1800mm	2130mmX1400mm



DIAMETER OF PIPE - D	300mm	500mm	600mm	800mm	1000mm	1200mm	1400mm	1600mm	1700mm	1800mm
* QUANTITY	1	2	3	5	10	13	16	20	28	33
APRON DEPTH	300mm	500mm			600mm			750mm		

\*TOTAL QUANTITY OF RIP-RAP IN CUBIC METRES

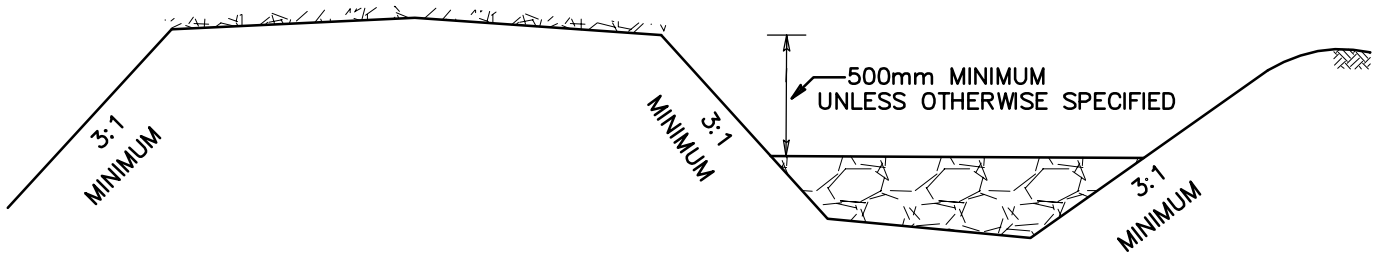
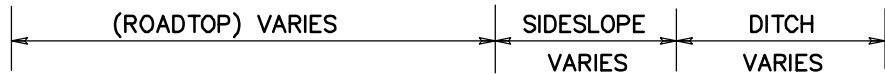
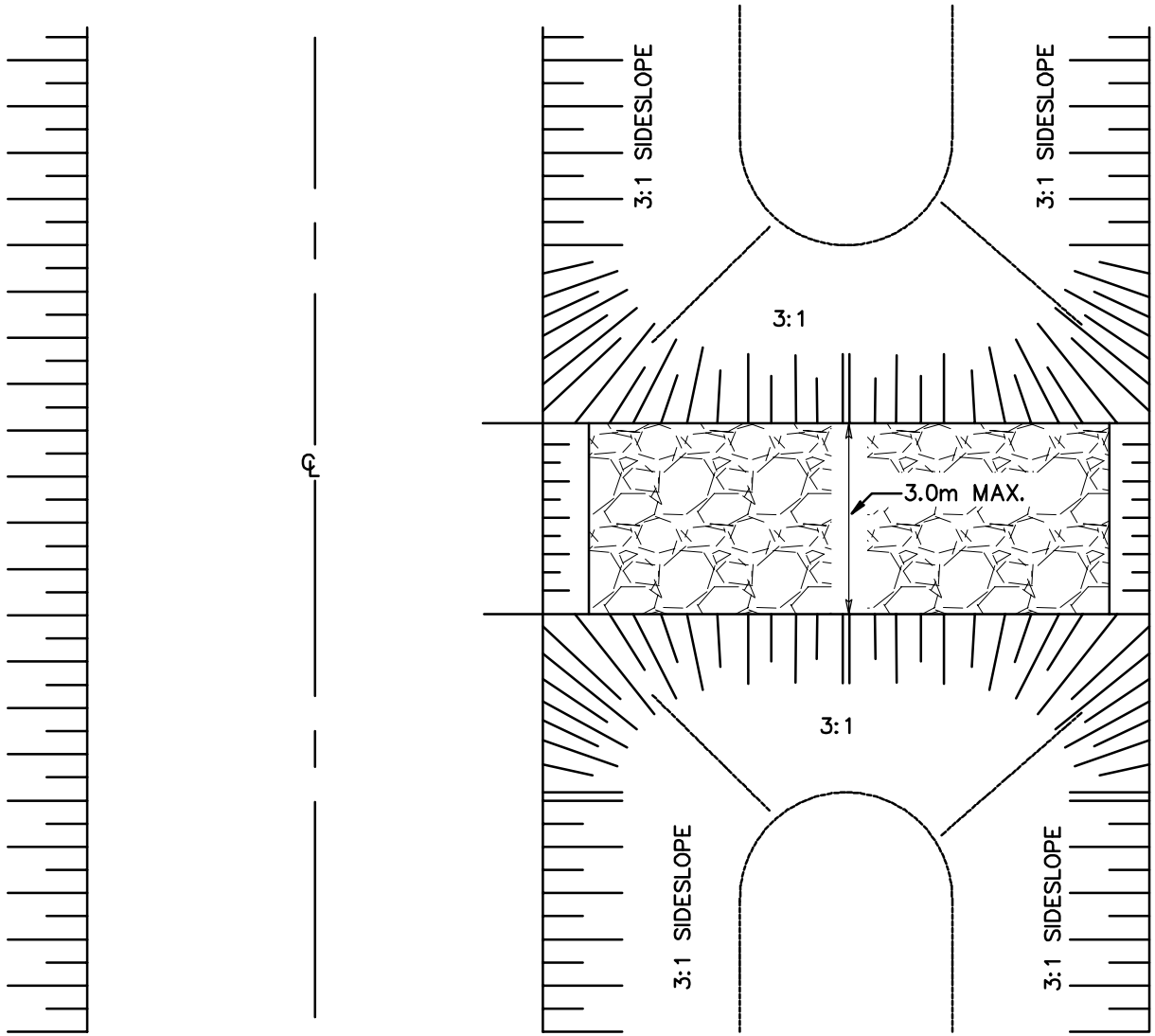
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	HAND PLACED RIP-RAP FOR PIPE CULVERTS		Figure G-18
Rev.					
Rev.					
Rev.	File No.: GP6033068	Design:	Approved:		Figure G-18
Date: 2009-04-16	Drawn:	Scale NTS			

PLAN VIEW



# TOWN OF PEACE RIVER

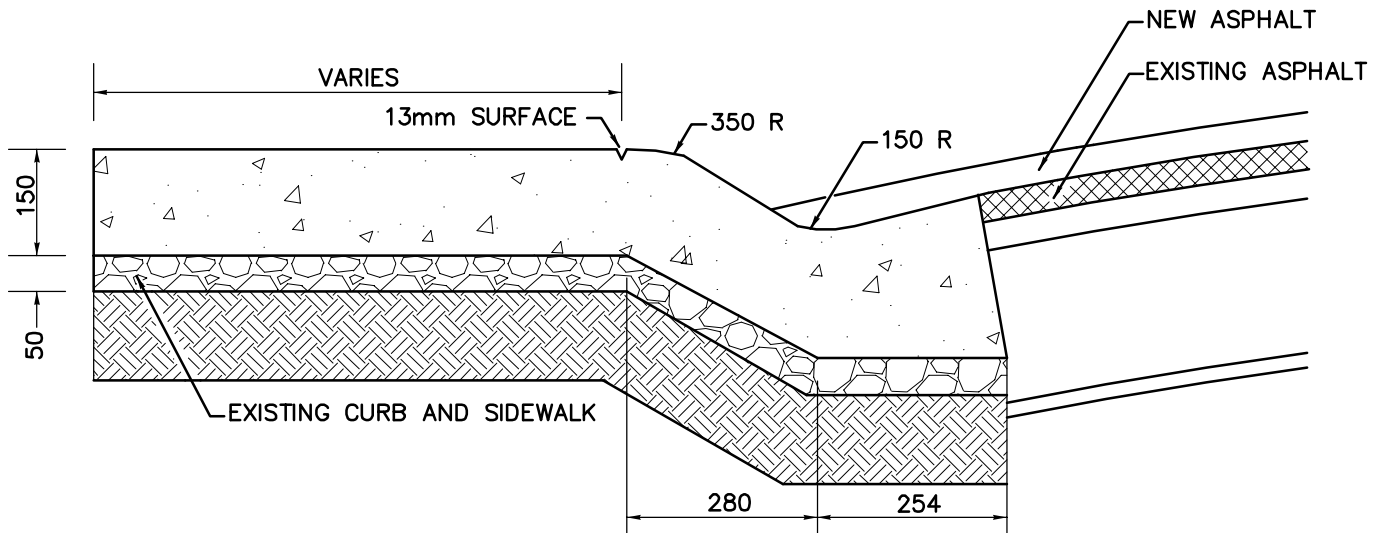
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL VIEWS OF A DITCH BLOCK	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-19
Date: 2009-04-16	Drawn:	Scale NTS		








**NOTES:**

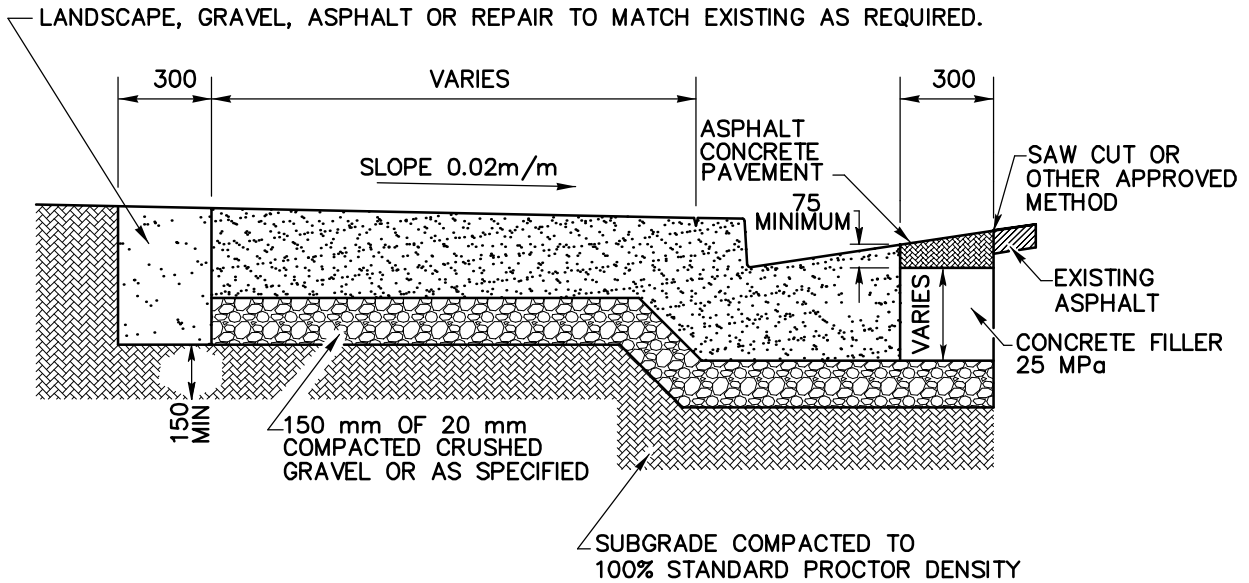
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL MATCH OF NEW OVERLAY &amp; EXISTING CURB AND GUTTER</b>	
Rev.				
Rev.				
Rev.	File No.: GP603306B	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		




**NOTES:**

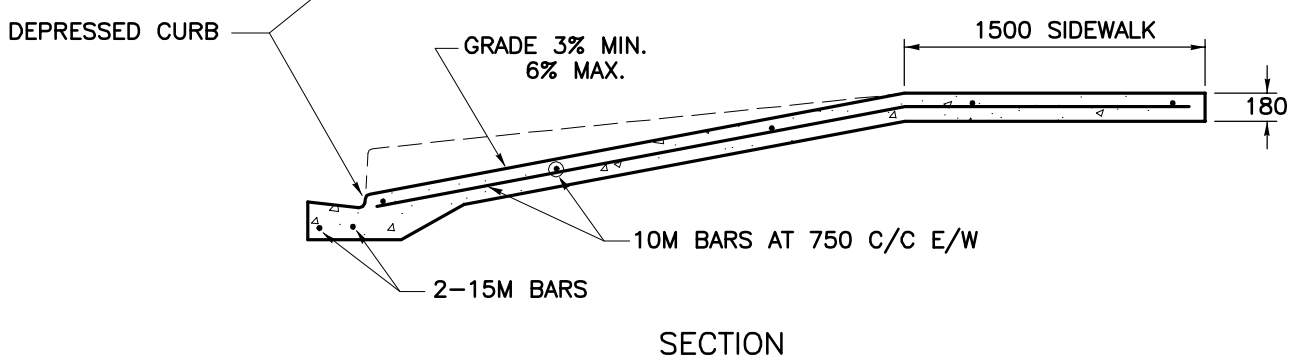
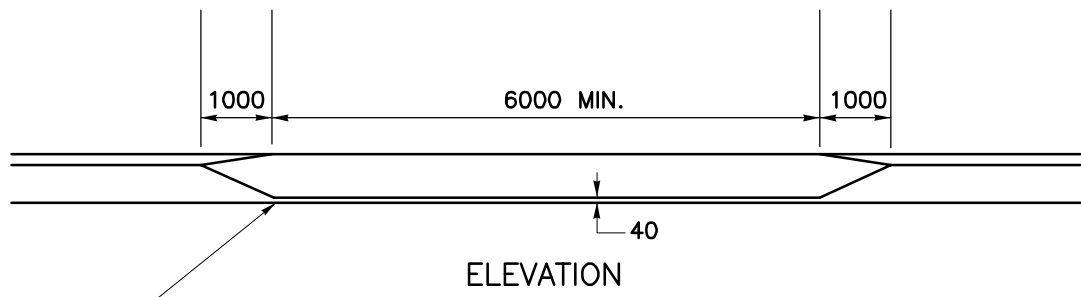
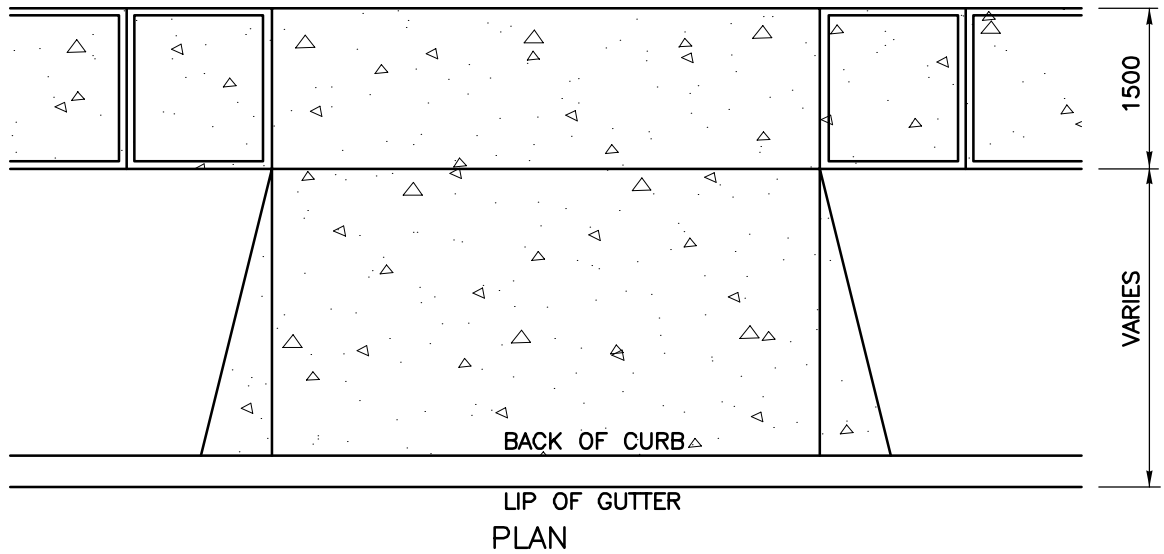
1. PLACE PAVING STONE OR CONCRETE SIDEWALK AS PER PLANS.
2. USE APPROPRIATE CURB AND GUTTER AS PER CONCRETE STRUCTURES DRAWINGS.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
4. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>RECONSTRUCTION OF SIDEWALK</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn:	Scale NTS		




- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  2. 30 MPa TYPE 50 SR CONCRETE.
  3. SUBGRADE TO BE COMPACTED TO 97% STANDARD PROCTOR DENSITY.
  4. 100mm DEPTH OF GRANULAR COMPACTED TO 98% S.P.D. TO BE PLACED BELOW THE CONCRETE.
  5. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

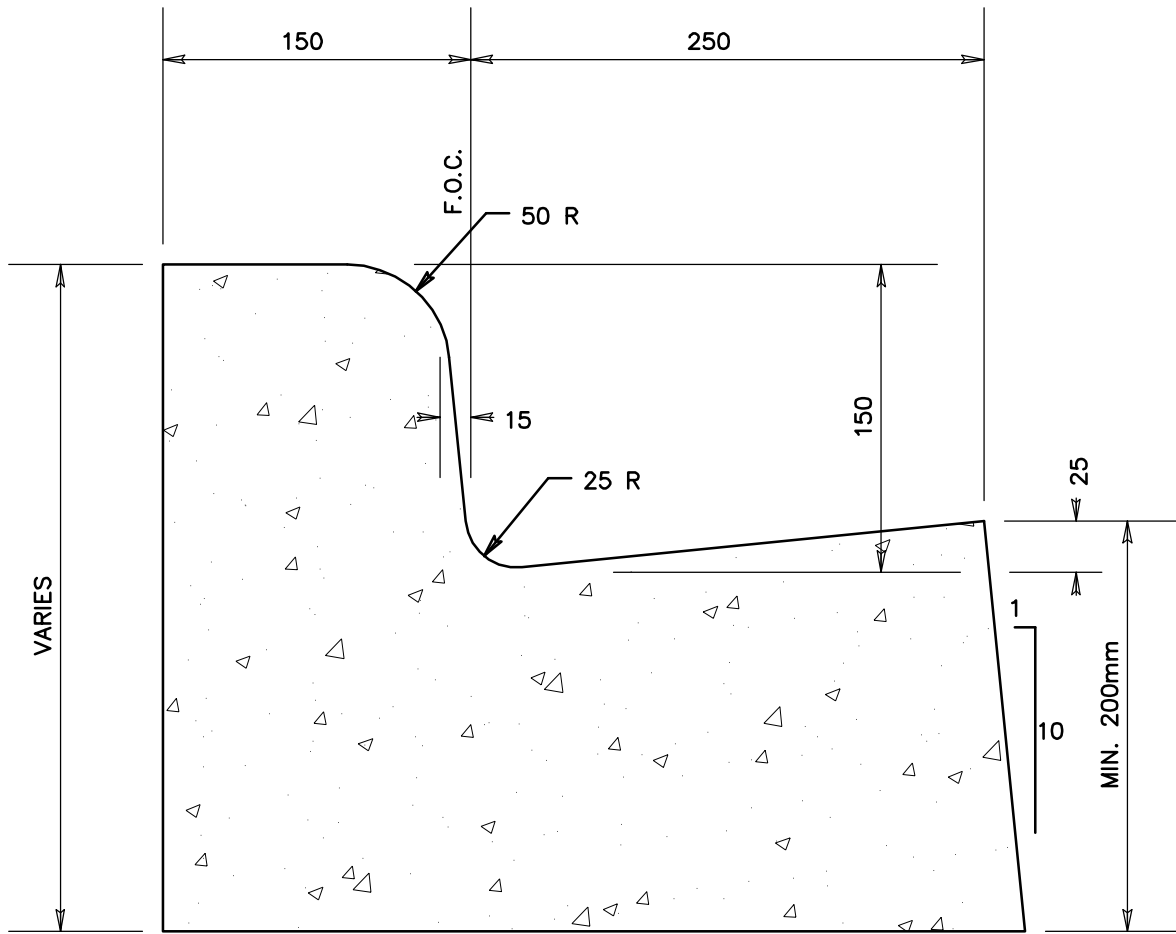
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>LANE OR COMMERCIAL CROSSING (HAND PLACED)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-24
Date: 2009-04-16	Drawn:	Scale NTS		






**NOTES:**

1. DEPTH OF GUTTER FACE TO MATCH DEPTH OF ROAD STRUCTURE.
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 STANDARD A23.1.

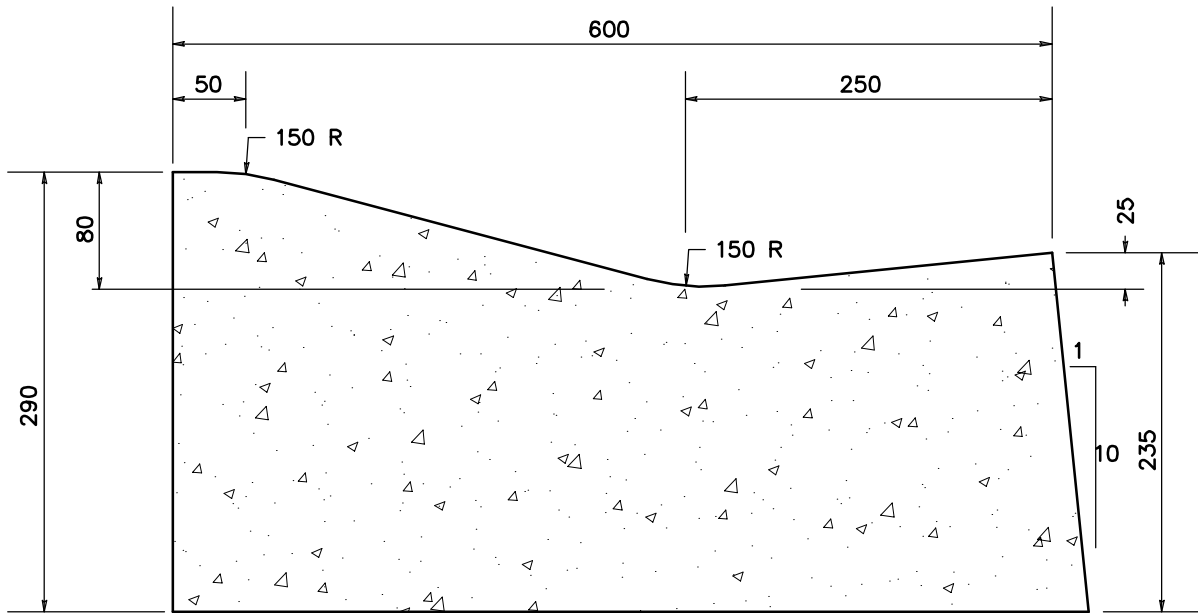
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>150 CURB WITH 250 GUTTER</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-25</b>
Date: 2009-04-16	Drawn:	Scale NTS		






NOTES:

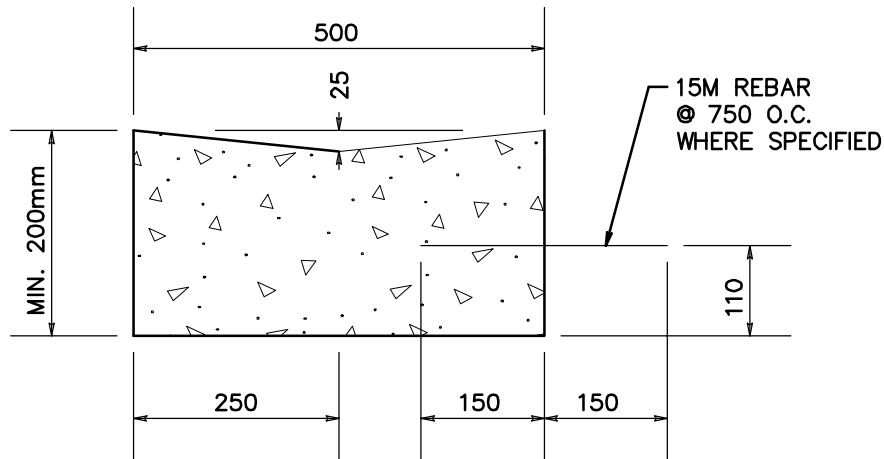
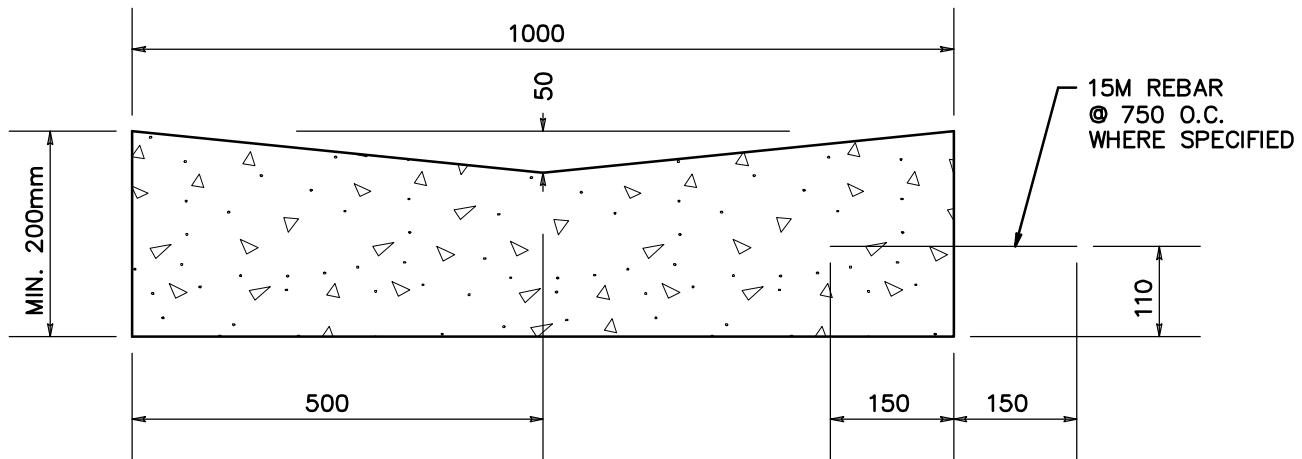
1. DEPTH OF GUTTER FACE TO MATCH DEPTH OF ROAD STRUCTURE.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>ROLL FACE CURB AND GUTTER</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-27
Date: 2009-04-16	Drawn:	Scale NTS		




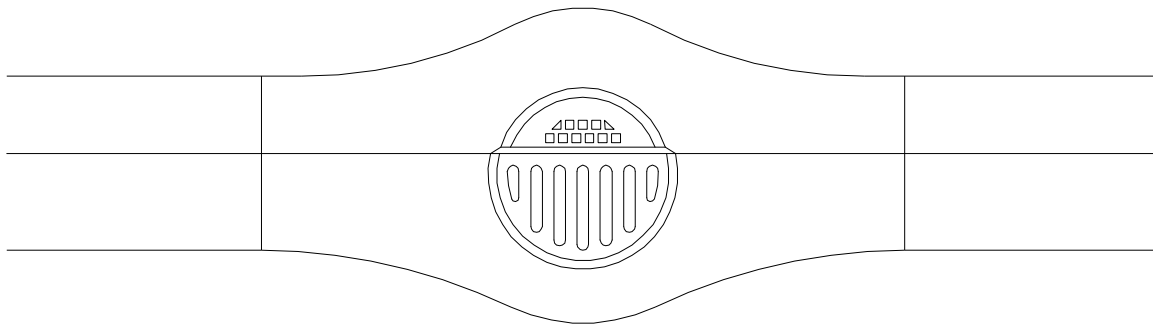
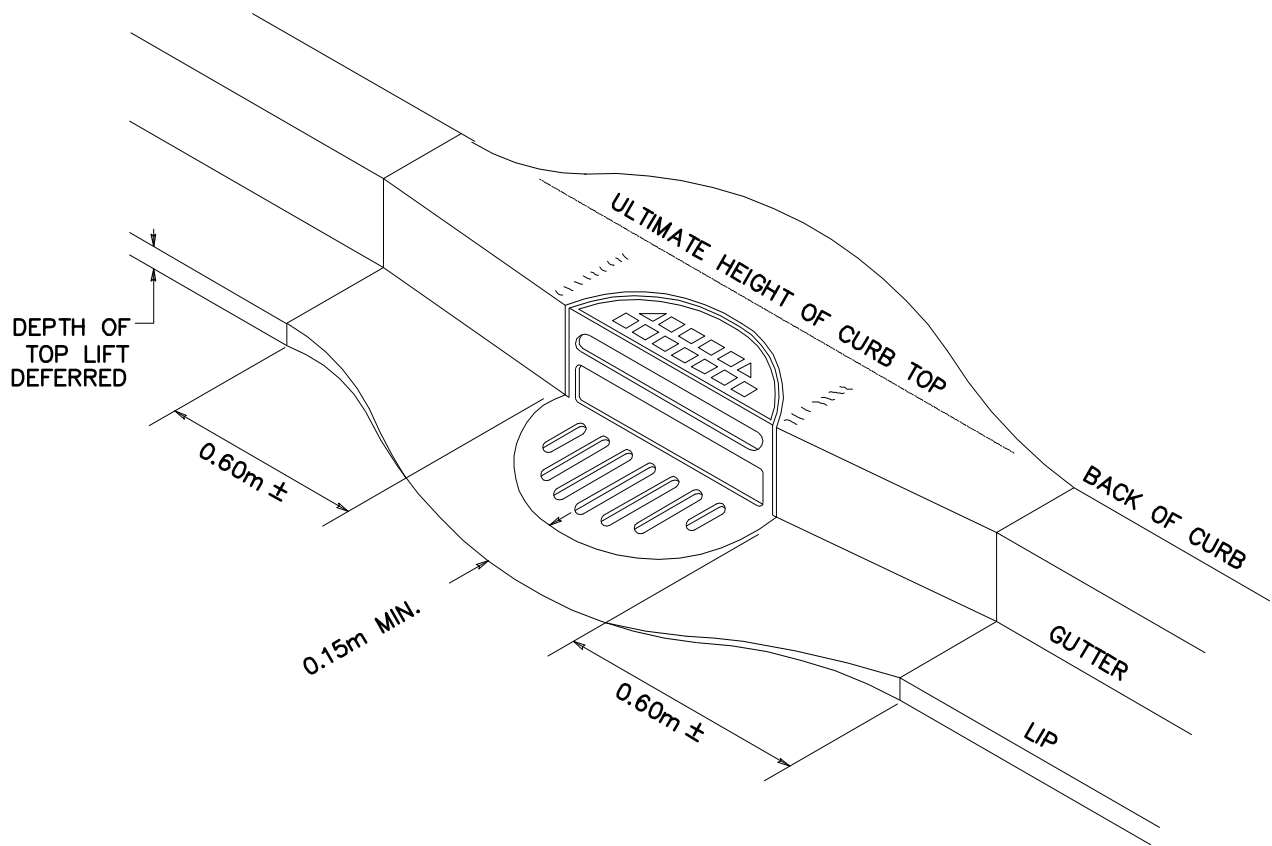
- NOTES:
1. DEPTH OF GUTTER FACE TO MATCH ROAD STRUCTURE.
  2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>500mm &amp; 1000mm          CONCRETE GUTTER (SWALE)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-28
Date: 2009-04-16	Drawn:	Scale NTS		



PLAN VIEW


NOTES:

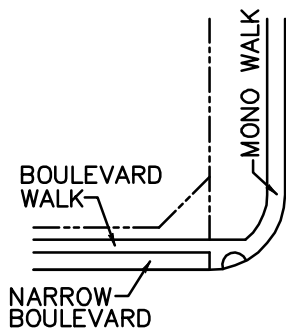
1. TYPICAL CURB & GUTTER TREATMENT AT CATCH BASIN WHEN ASPHALT TOP LIFT IS DEFERRED. LOCATION TO BE DETERMINED BY ENGINEER.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

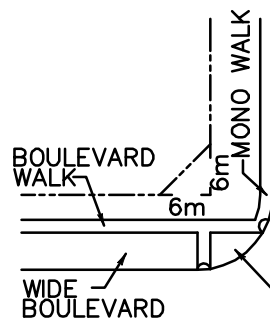
General Municipal Servicing Standards



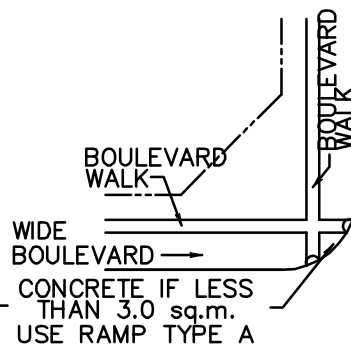
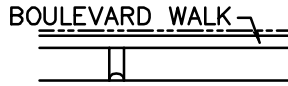
Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>DEPRESSED CURB &amp; GUTTER FOR CATCH BASIN</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		



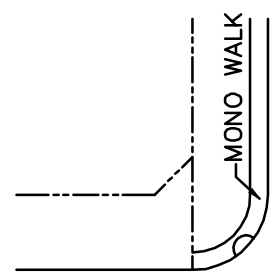
RAMP TYPE A



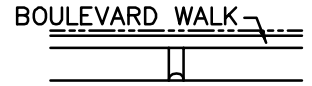
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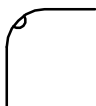
RAMP TYPE B



RAMP TYPE A

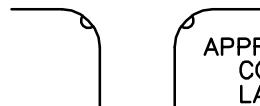


APPROPRIATE CORNER LAYOUT



LOCATE RAMP DIRECTLY ACROSS FROM CORNER RAMPS

RAMP TYPE C



APPROPRIATE CORNER LAYOUT

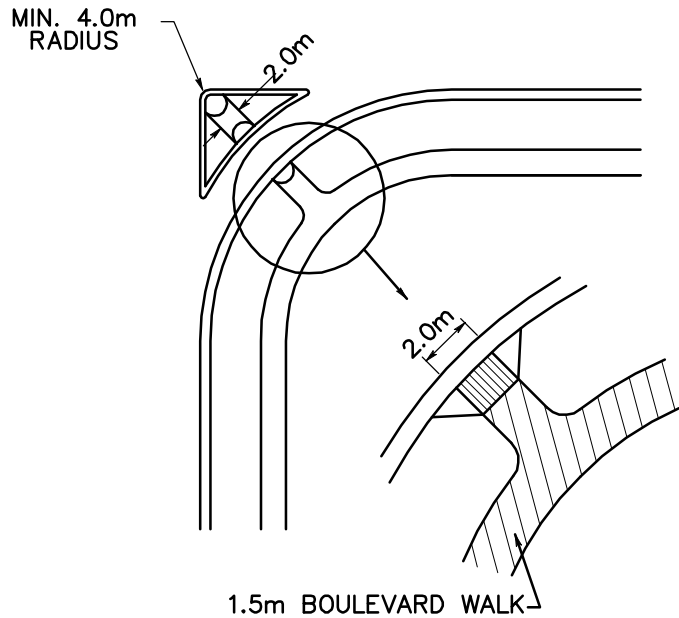
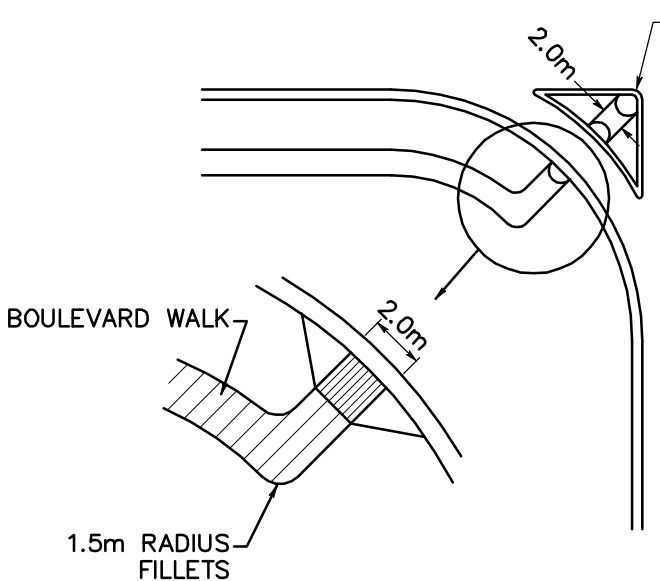
LOCATE RAMP DIRECTLY ACROSS FROM CORNER RAMPS

RAMP TYPE D

RAMP TYPE C

RAMP TYPE D

TANGENT LAYOUT



RAMP TYPE D INTERSECTION LAYOUT

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	
Rev.	
Rev.	
Rev.	
Date:	2009-04-16



#99, 11039 78th Avenue  
Grande Prairie, Alberta  
780.814.5880

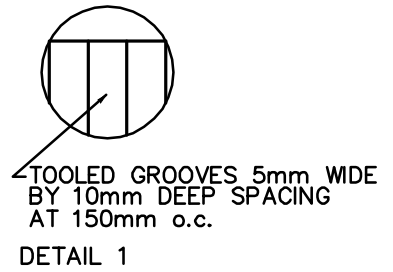
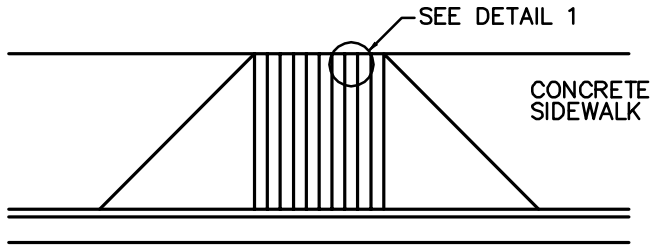
File No.: GP6033068

Design:  
Scale NTS

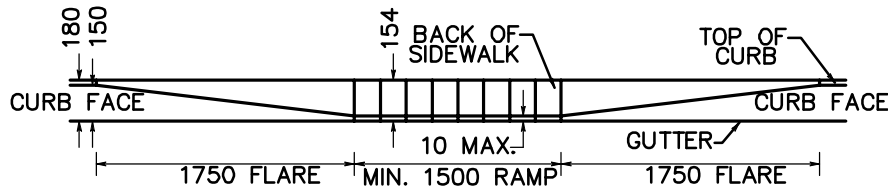
## CURB RAMP LOCATIONS

Approved:

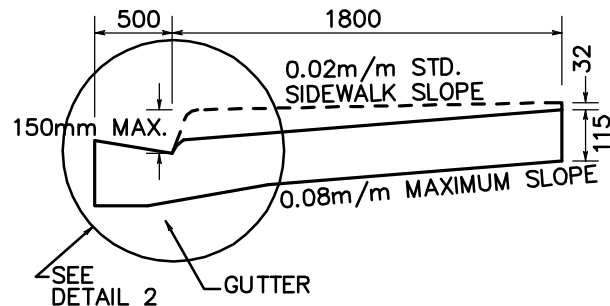
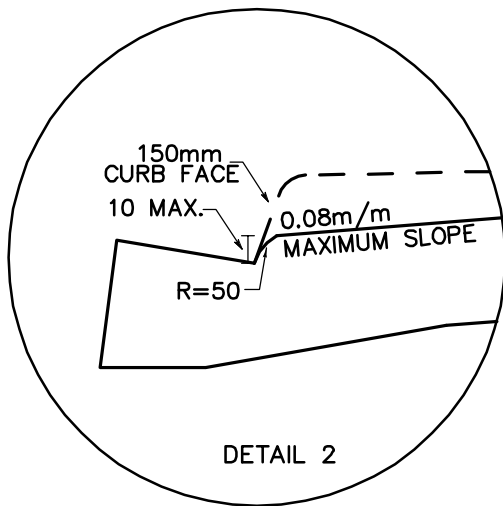
Figure G-30



TYPICAL PLAN VIEW



TYPICAL ELEVATION




TYPICAL CROSS SECTION (A-A)

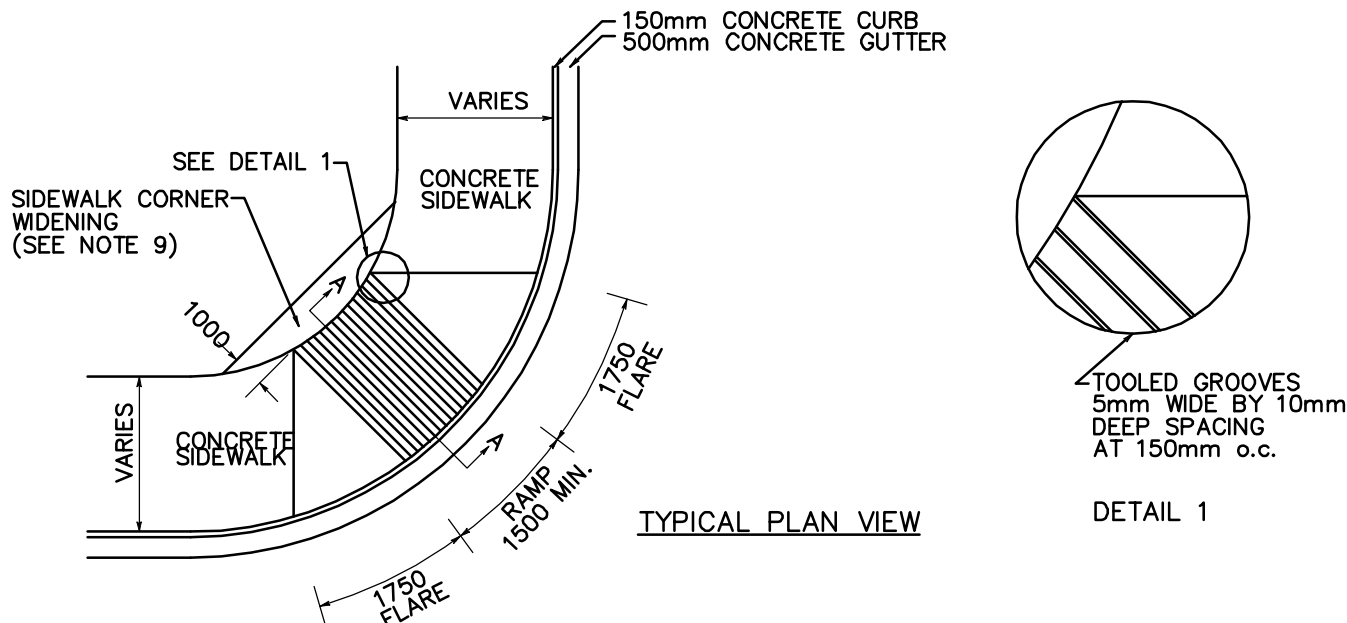
- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  2. RAMP FOR USERS OF WHEELCHAIRS/BICYCLES SHOULD BE LOCATED AT ALL JUNCTIONS OF CROSSWALKS AND SIDEWALKS. RAMP MUST BE LOCATED WITHIN A SIDEWALK.
  3. GROOVES ON SIDEWALK RAMP ARE TO ALERT PERSONS WHO ARE VISUALLY IMPAIRED OF THE CURB-CUT AND A STREET CROSSING.
  4. WHERE CROSSWALKS ARE CONTROLLED BY SIGNALS WITH A PUSH-BUTTON SYSTEM, THE SIDEWALK AND RAMP MUST ALLOW ACCESS FOR WHEELCHAIR TO PUSH BUTTON.
  5. MINIMUM WIDTH OF RAMP IS 1500mm. IT MAY BE NECESSARY TO BUILD WIDER RAMP IN BUSY URBAN AREAS WHERE VOLUME OF PEDESTRIAN TRAFFIC IS HIGH.
  6. MAXIMUM RAMP SLOPE IS 0.08m/m.
  7. WHERE THE SIDEWALK IS LESS THAN 1800mm WIDE, THE 0.08m/m MAX. SLOPE SHOULD NOT BE EXCEEDED AND THEREFORE THE BACK OF THE SIDEWALK MUST BE LOWERED ACCORDINGLY.
  8. WHERE RIGHT-OF-WAY IS AVAILABLE, THE SIDEWALK IS TO BE WIDENED AT CORNER LOCATIONS AS SHOWN SO THAT AT LEAST A 1.0m WIDTH OF "FLAT" SIDEWALK IS PROVIDED ADJACENT TO THE RAMP.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards

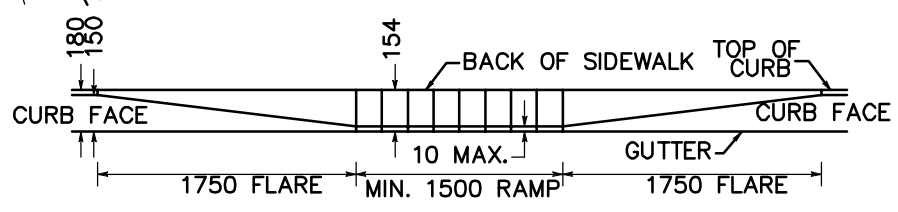


Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>CONCRETE SIDEWALK RAMP FOR WHEELCHAIR OR BICYCLE ON TANGENT (TYPE 1)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn:	Scale NTS		G-31

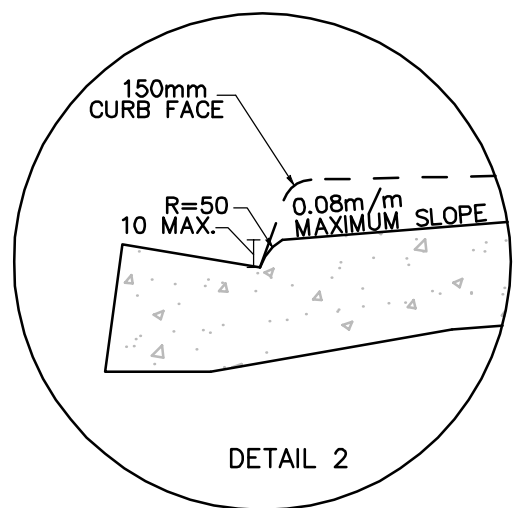


TYPICAL PLAN VIEW

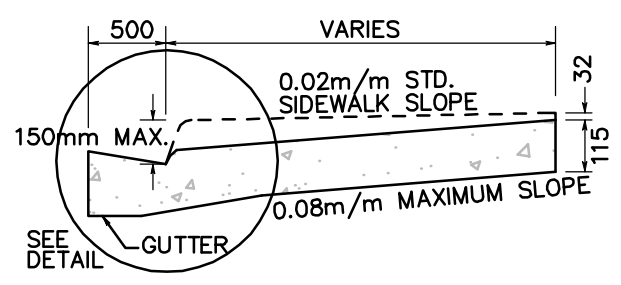
DETAIL 1



TYPICAL ELEVATION



DETAIL 2



TYPICAL CROSS SECTION (A-A)

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. RAMP FOR USERS OF WHEELCHAIRS/BICYCLES SHOULD BE LOCATED AT ALL JUNCTIONS OF CROSSWALKS AND SIDEWALKS. RAMP MUST BE LOCATED WITHIN A SIDEWALK.
3. GROOVES ON SIDEWALK RAMP ARE TO ALERT PERSONS WHO ARE VISUALLY IMPAIRED OF THE CURB-CUT AND A STREET CROSSING.
4. WHERE CROSSWALKS ARE CONTROLLED BY SIGNALS WITH A PUSH-BUTTON SYSTEM, THE SIDEWALK AND RAMP MUST ALLOW ACCESS FOR WHEELCHAIR TO PUSH BUTTON.
5. MINIMUM WIDTH OF RAMP IS 1500mm. IT MAY BE NECESSARY TO BUILD WIDER RAMP IN BUSY URBAN AREAS WHERE VOLUME OF PEDESTRIAN TRAFFIC IS HIGH.
6. MAXIMUM RAMP SLOPE IS 0.08m/m.
7. WHERE THE SIDEWALK IS LESS THAN 1800mm WIDE, THE 0.08m/m MAX. SLOPE SHOULD NOT BE EXCEEDED AND THEREFORE THE BACK OF THE SIDEWALK MUST BE LOWERED ACCORDINGLY.
8. WHERE RIGHT-OF-WAY IS AVAILABLE, THE SIDEWALK IS TO BE WIDENED AT CORNER LOCATIONS AS SHOWN SO THAT AT LEAST A 1.0m WIDTH OF "FLAT" SIDEWALK IS PROVIDED ADJACENT TO THE RAMP.

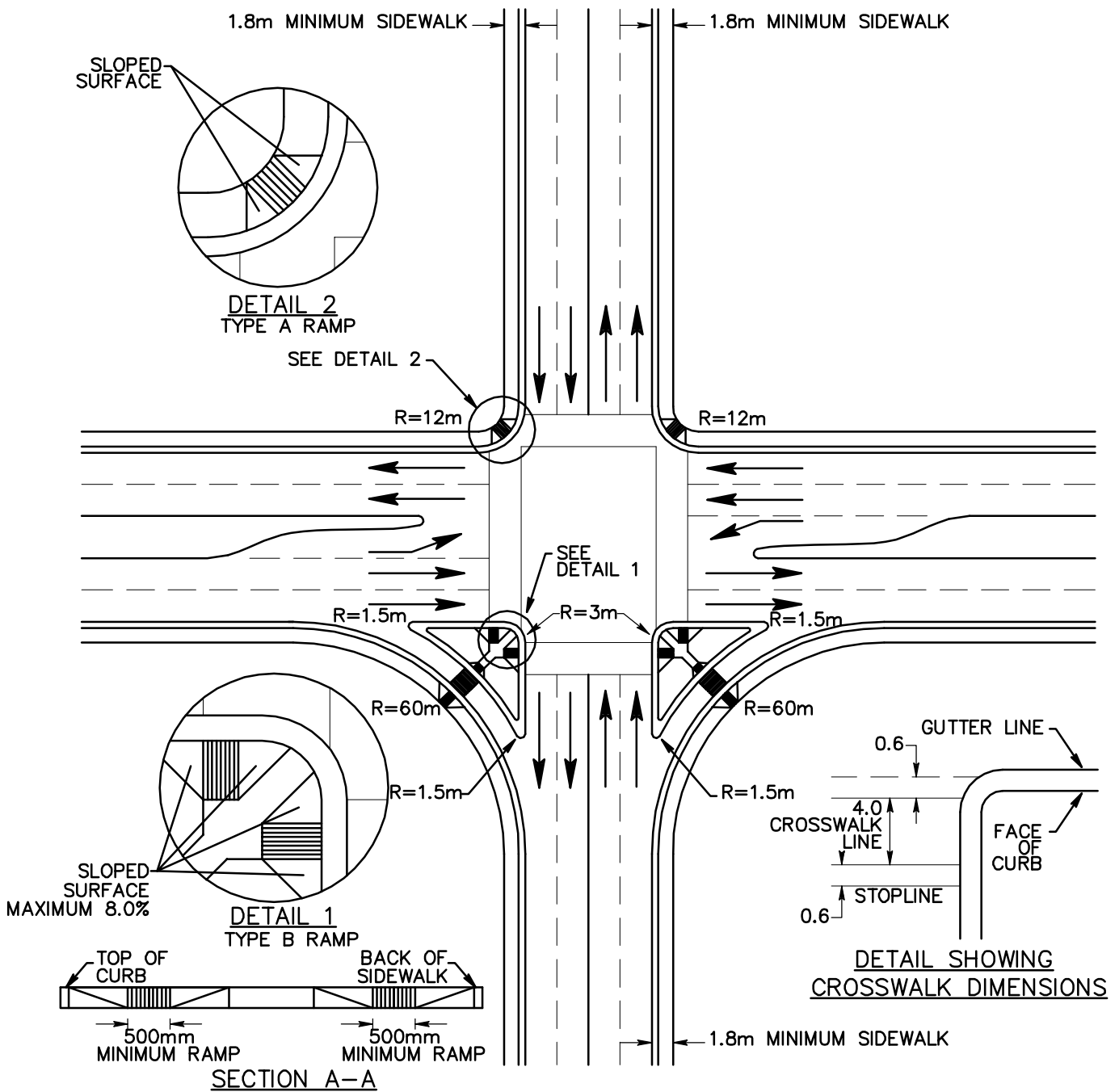
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>CONCRETE SIDEWALK RAMP FOR WHEELCHAIR OR BICYCLE ON CORNER (TYPE 2)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn:	Scale NTS		G-32





**NOTES:**

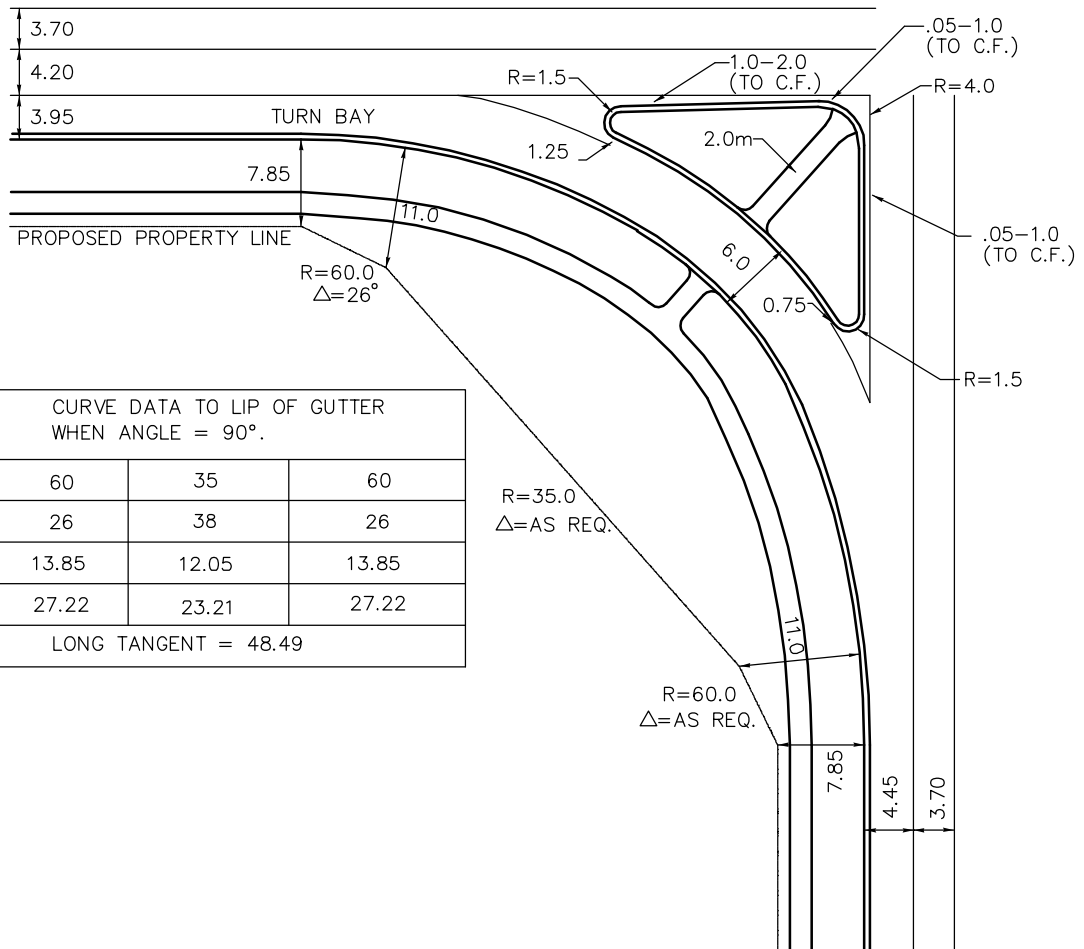
1. ALL DIMENSIONS IN METERS UNLESS OTHERWISE SPECIFIED.
2. SIDEWALK RAMPS MUST PROVIDE ACCESS DIRECTLY TO CROSSWALKS.
3. THE SELECTION OF CURB RAMP TYPE IS DEPENDANT ON THE LOCATION OF THE CROSSWALK RELATED TO THE CURB FACE. WHERE THE CURB RETURN RADIUS IS GREATER THAN OR EQUAL TO 4.0m, TWO TYPE 2 RAMPS CAN BE USED. WHERE THE CURB RETURN RADIUS IS LESS THAN 4.0m, TWO TYPE 1 RAMPS ARE REQUIRED.
4. WHERE CROSSWALKS ARE CONTROLLED BY SIGNALS WITH A PUSH-BUTTON SYSTEM, THE SIDEWALKS AND RAMPS MUST ALLOW ACCESS BY WHEELCHAIR TO THE PUSH-BUTTON.
5. ON A SHARP CORNER WHERE TWO TYPE 1 RAMPS ARE BEING USED, THE SLOPE ON THE FLARED AREAS BETWEEN TWO RAMPS CAN BE LESS THAN THE 0.08m/m MAXIMUM SHOWN. THIS WILL PROVIDE A SMOOTHER SIDEWALK FOR GENERAL USE ESPECIALLY FOR PEDESTRIANS WHO ARE NOT USING THE CROSSWALK.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	LAYOUT OF CROSSWALKS AND LOCATION AND TYPE OF SIDEWALK RAMPS AT URBAN INTERSECTIONS	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-33
Date: 2009-04-16	Drawn:	Scale NTS		



CURVE DATA TO LIP OF GUTTER WHEN ANGLE = 90°.			
R	60	35	60
Δ	26	38	26
TAN	13.85	12.05	13.85
L.C.	27.22	23.21	27.22
LONG TANGENT = 48.49			


**NOTES:**

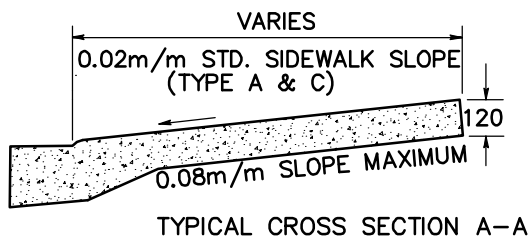
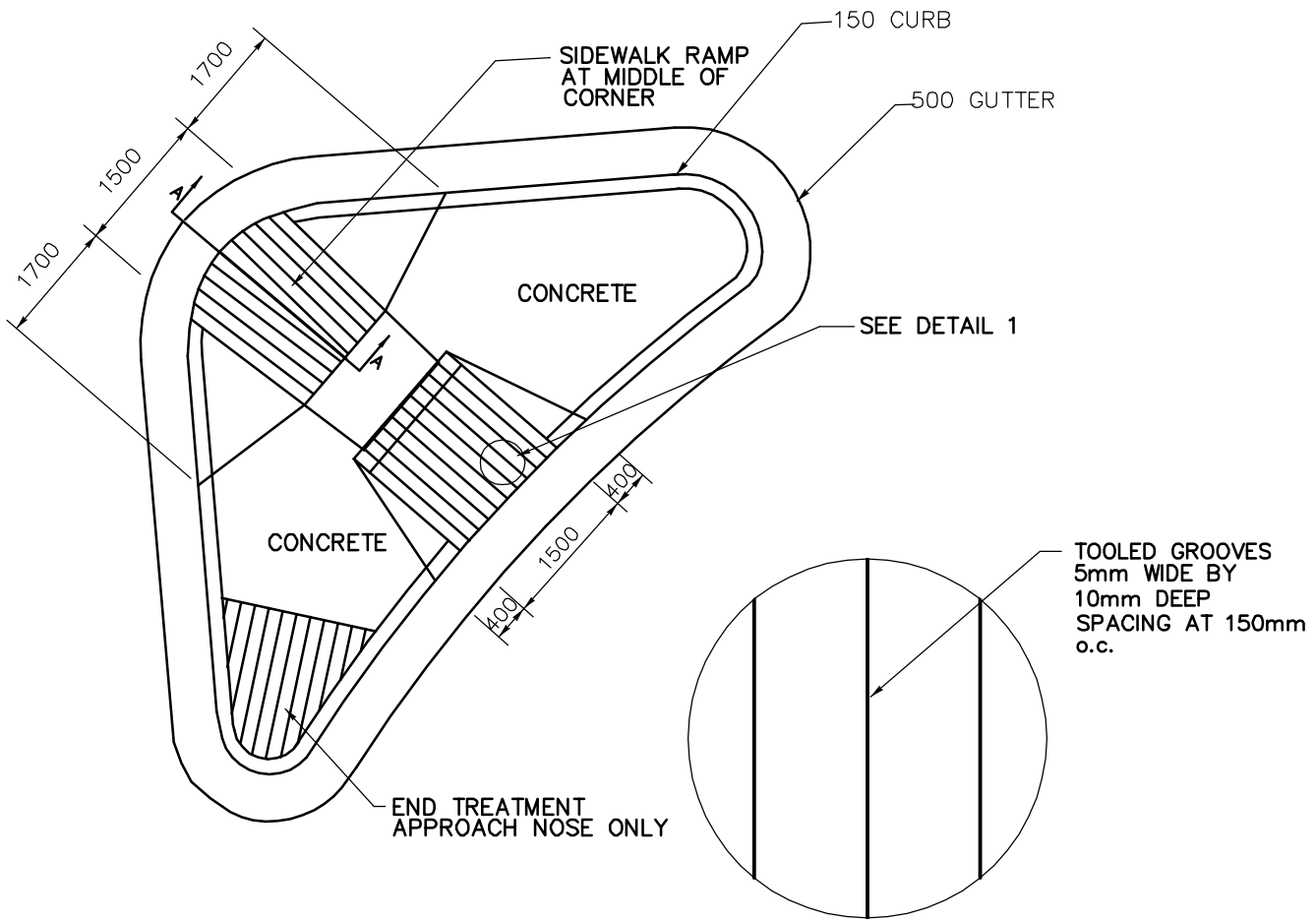
1. ALL RADII ARE TO LIP OF GUTTER.
2. PAVEMENT MARKING OFFSETS ARE TO CURB FACE.
3. THE ABOVE CURVE DATA IS APPLICABLE ONLY WITHIN A 10° DEFLECTION FROM 90°.
4. RIGHT TURN CUT-OFF TO BE REVIEWED / ADJUSTED TO ACCOMMODATE DESIGN TRUCK CLASSIFICATION.
5. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>RIGHT TURN STANDARD – ARTERIAL TO ARTERIAL          (NON INDUSTRIAL)          (AUXILIARY LANE TO NO AUXILIARY LANE)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn:	Scale NTS		G-34



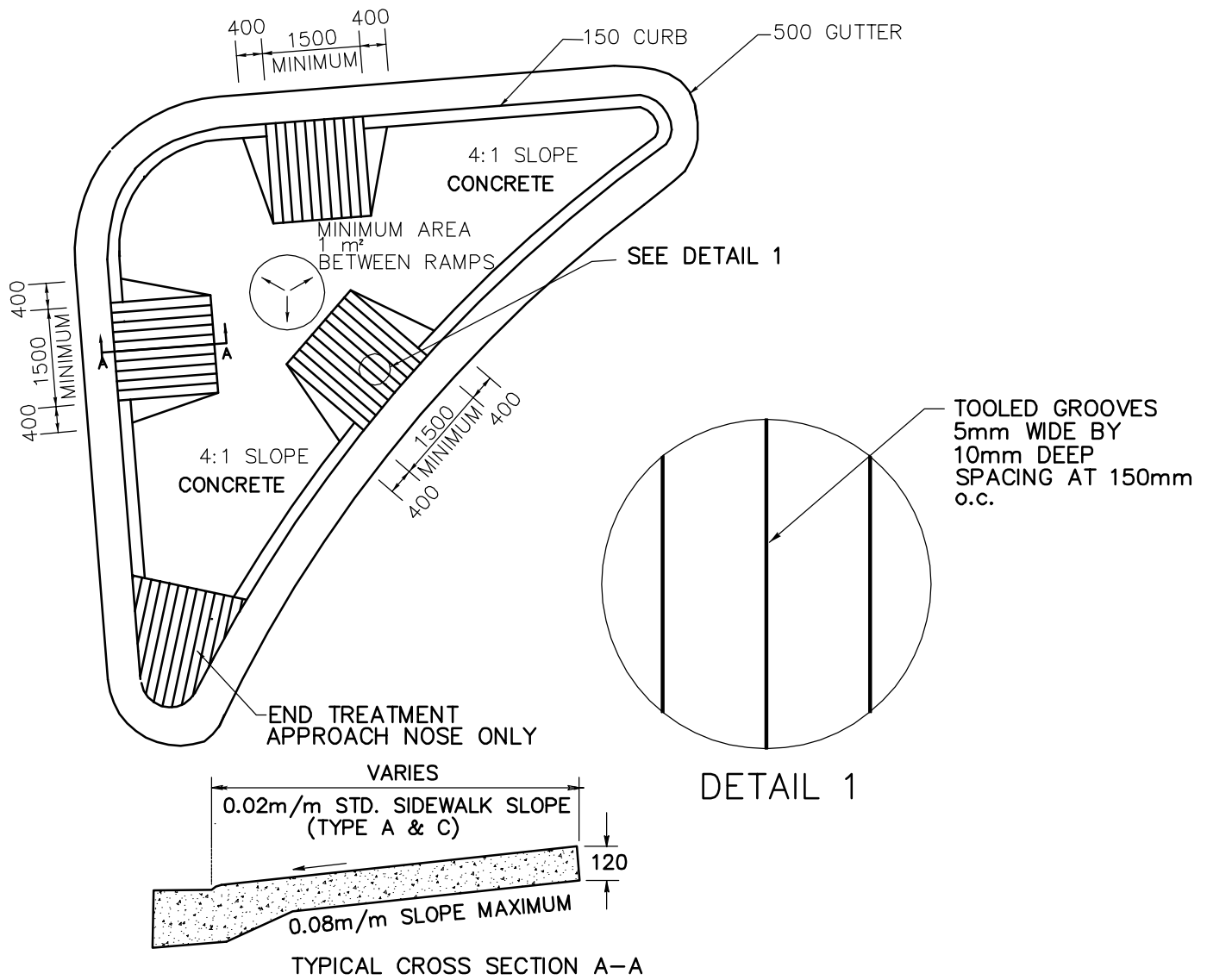
- NOTES:
1. EXACT DIMENSIONS AND LAYOUT OF ISLAND ARE DICTATED BY LAYOUT OF INTERSECTION.
  2. WHERE RAMP IS TO BE USED AS A TRANSITION, USE THE CENTER OF THE 1500mm RAMP AS THE CENTER OF THE TRANSITION.
  3. CURBS AND RAMPS TO BE POURED MONOLITHICALLY.
  4. IT MAY BE NECESSARY TO BUILD RAMPS WIDER AT HIGH VOLUME PEDESTRIAN TRAFFIC LOCATIONS.
  5. WHEN THE CURB RETURN RADIUS IS LESS THAN 4.0m TWO RAMPS ARE REQUIRED.
  6. 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	<b>SIDEWALK AND CROSSWALK LAYOUT OF SMALL ISLANDS AND MEDIANS, TYPE A</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-35
Date: 2009-04-16	Drawn:	Scale NTS		




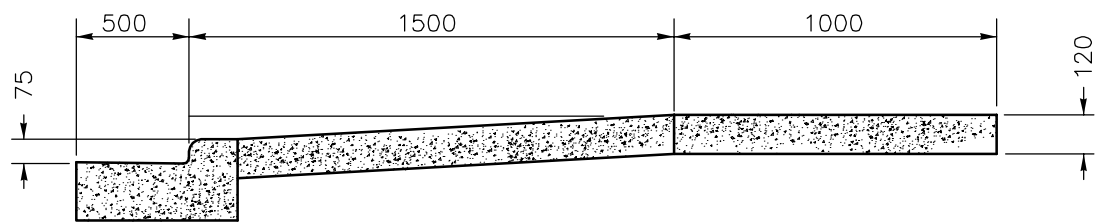
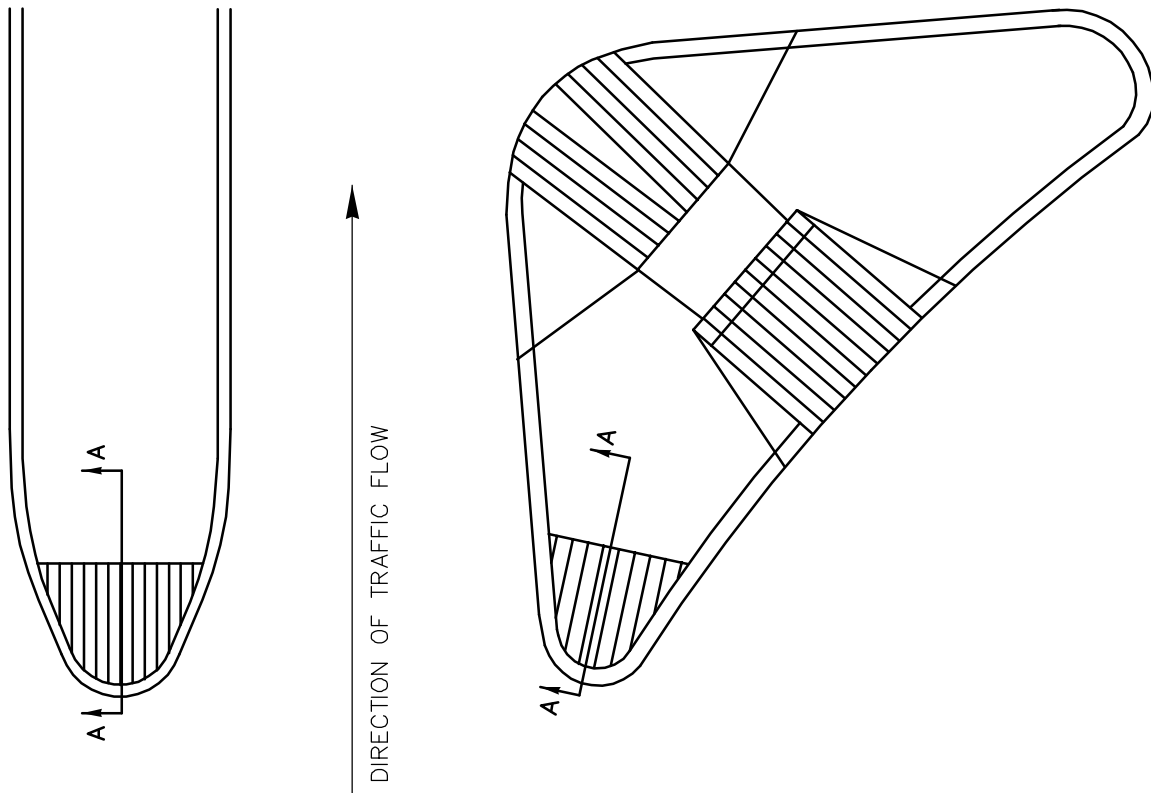
- NOTES:
1. EXACT DIMENSIONS AND LAYOUT OF ISLAND ARE DICTATED BY LAYOUT OF INTERSECTION.
  2. WHERE RAMP IS TO BE USED AS A TRANSITION, USE THE CENTER OF THE 1500mm RAMP AS THE CENTER OF THE TRANSITION.
  3. CURBS AND RAMPS TO BE POURED MONOLITHICALLY.
  4. IT MAY BE NECESSARY TO BUILD RAMPS WIDER AT HIGH VOLUME PEDESTRIAN TRAFFIC LOCATIONS.
  5. WHEN THE CURB RETURN RADIUS IS LESS THAN 4.0m TWO RAMPS ARE REQUIRED.
  6. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>SIDEWALK AND CROSSWALK LAYOUT OF SMALL ISLANDS AND MEDIANS, TYPE B</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-36
Date: 2009-04-16	Drawn:	Scale NTS		




SECTION A A

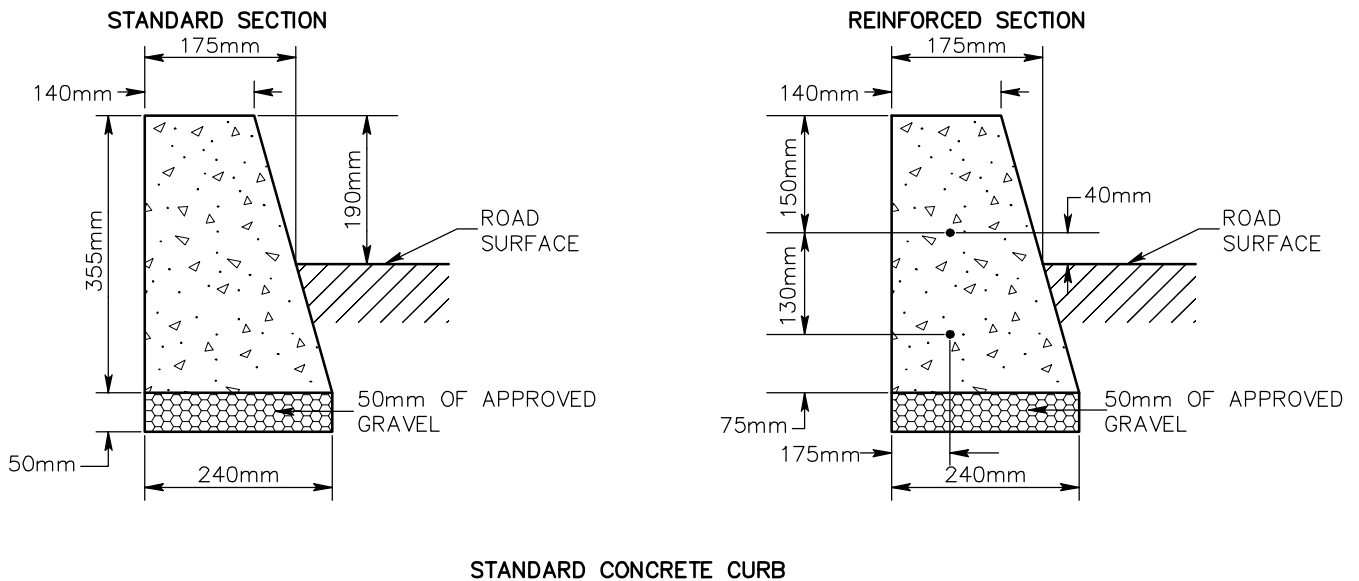
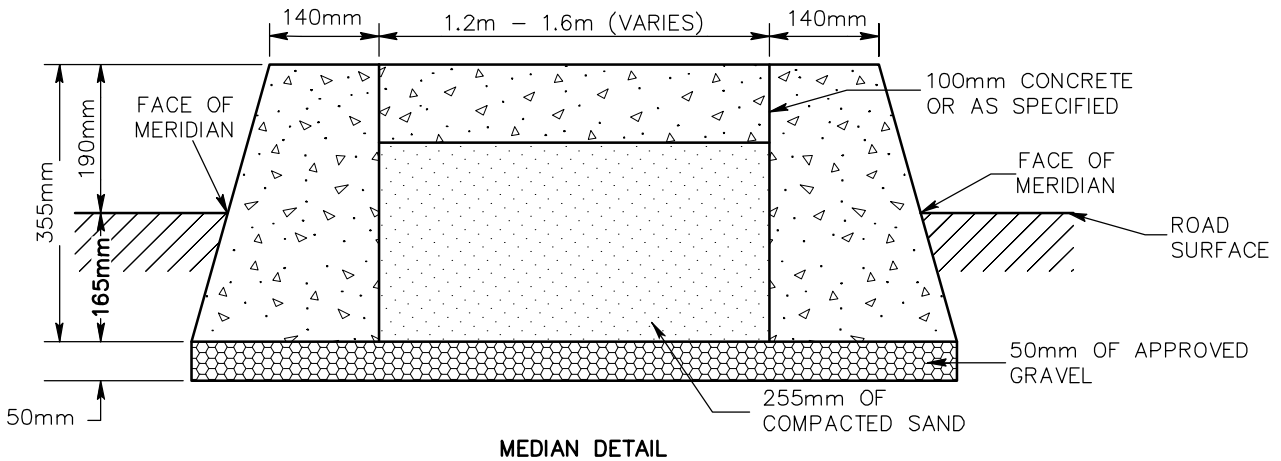
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	ISLAND / WIDE MEDIAN APPROACH NOSE	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	
Date: 2009-04-16	Drawn:	Scale NTS		



**NOTES:**

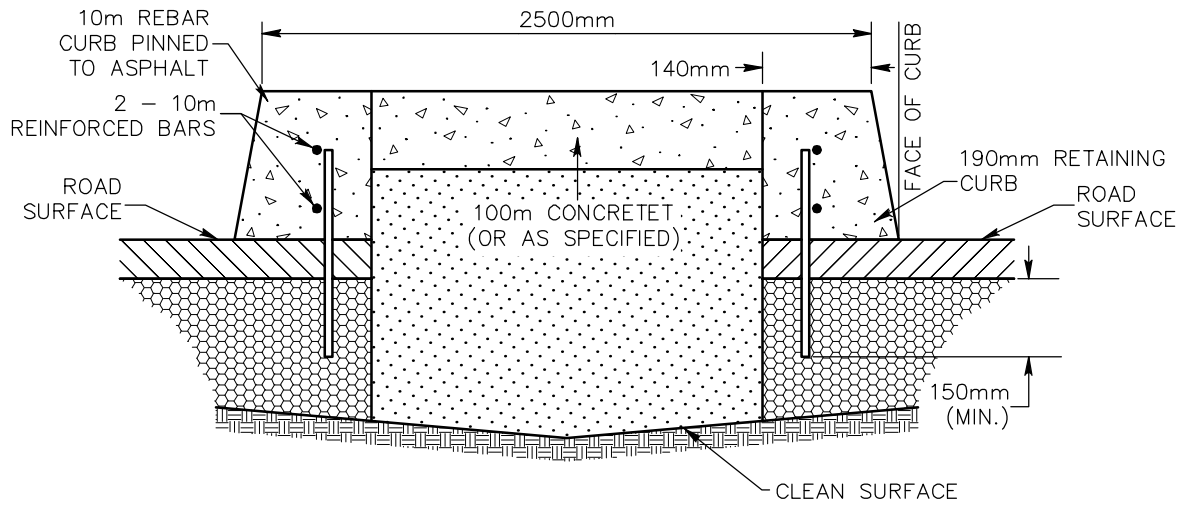
1. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

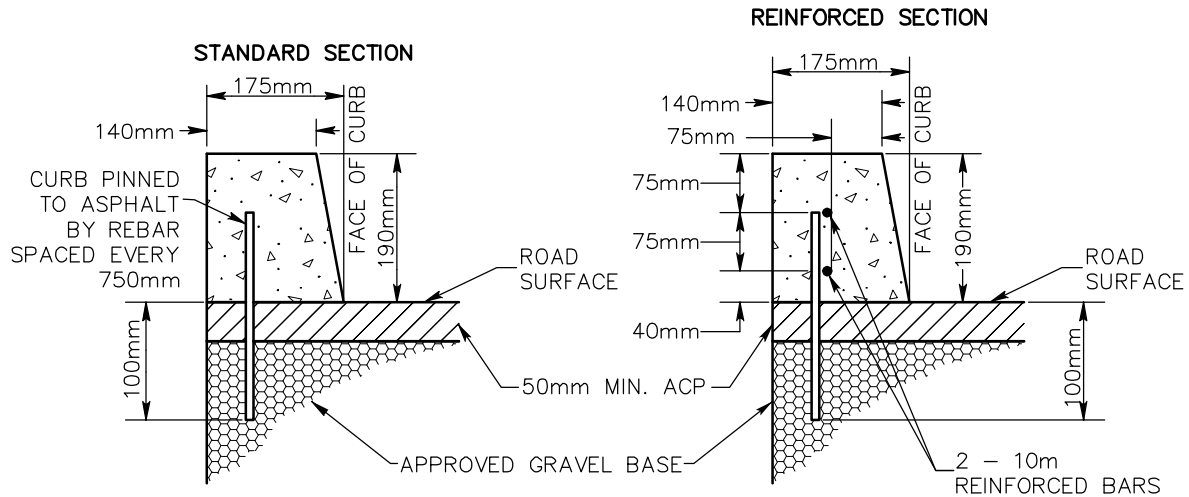
General Municipal Servicing Standards



<b>Rev.</b>	<b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CURB & MEDIAN (GRAVEL BASE)	
<b>Rev.</b>			<b>Approved:</b>	Figure <b>G-38</b>
<b>Rev.</b>				
<b>Rev.</b>	File No.: GP6033068	Design:		
<b>Date:</b> 2009-04-16	Drawn:	Scale NTS		



MEDIAN DETAIL (PIN-ON CURBS)



CONCRETE CURB (PIN-ON)


NOTES:

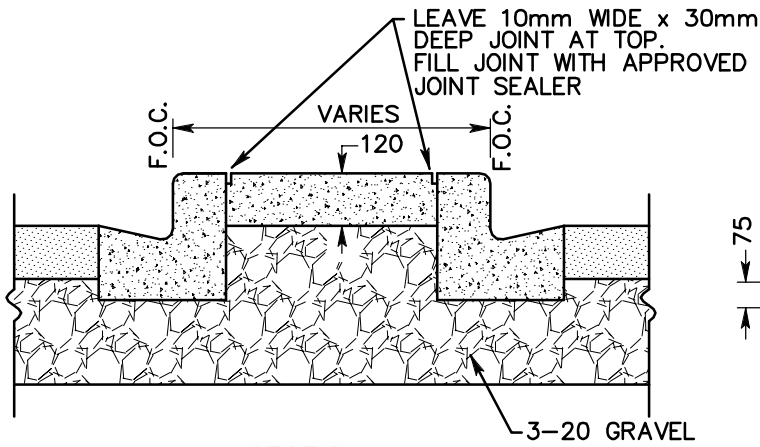
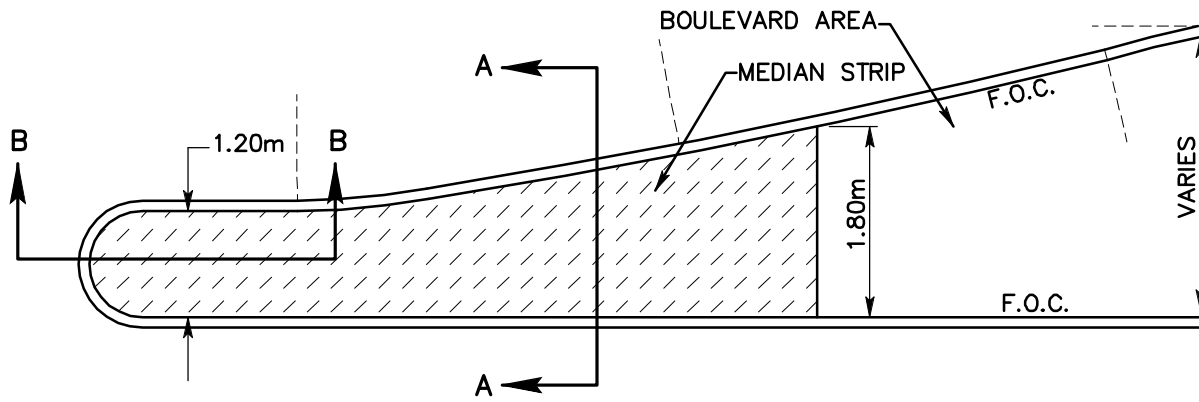
1. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

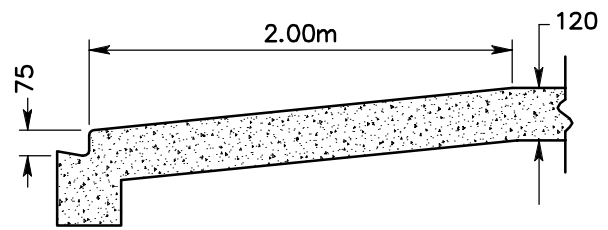
General Municipal Servicing Standards



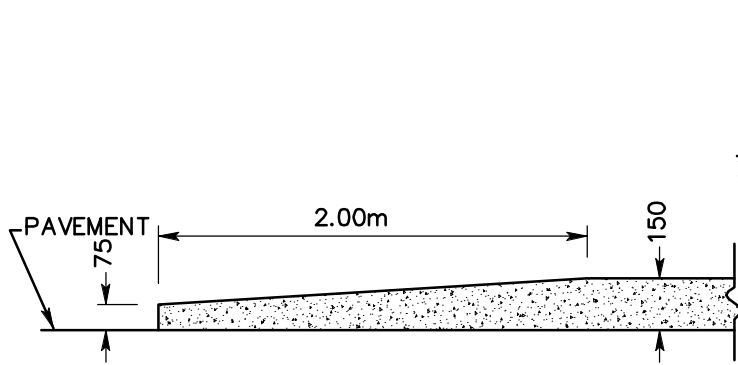
Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>CURB AND MEDIAN          (ASPHALT BASE-PIN ON)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-39</b>
Date: 2009-04-16	Drawn:	Scale NTS		



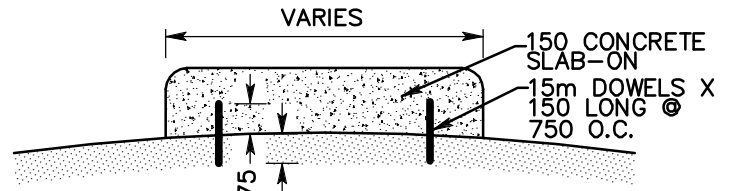
SECTION A-A



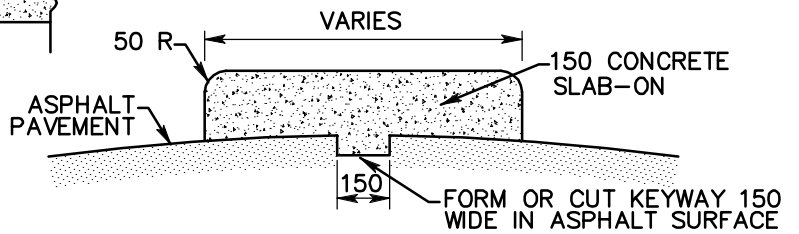
SECTION B-B



SECTION B-B



SECTION A-A




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.

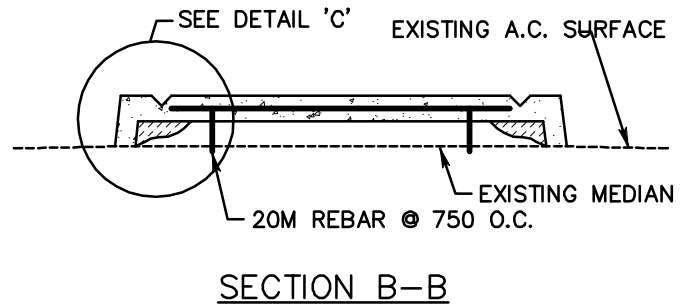
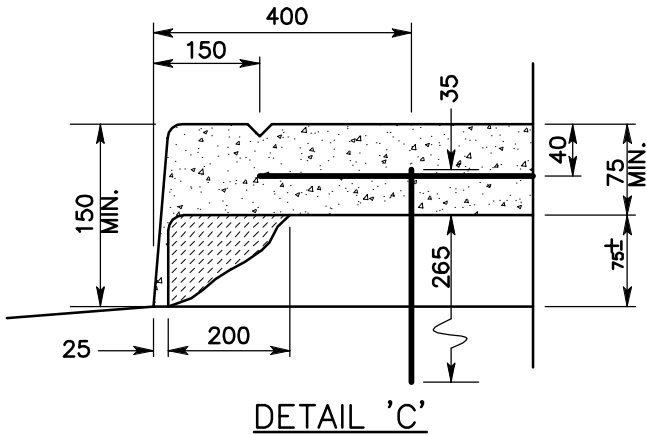
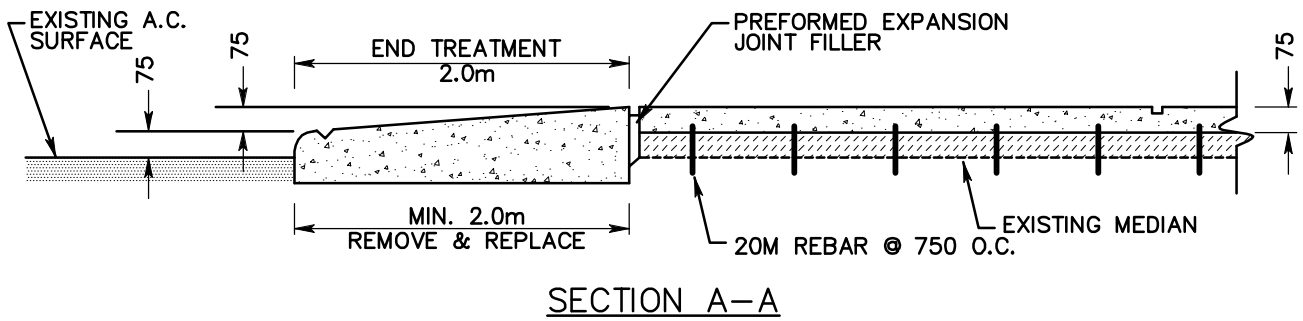
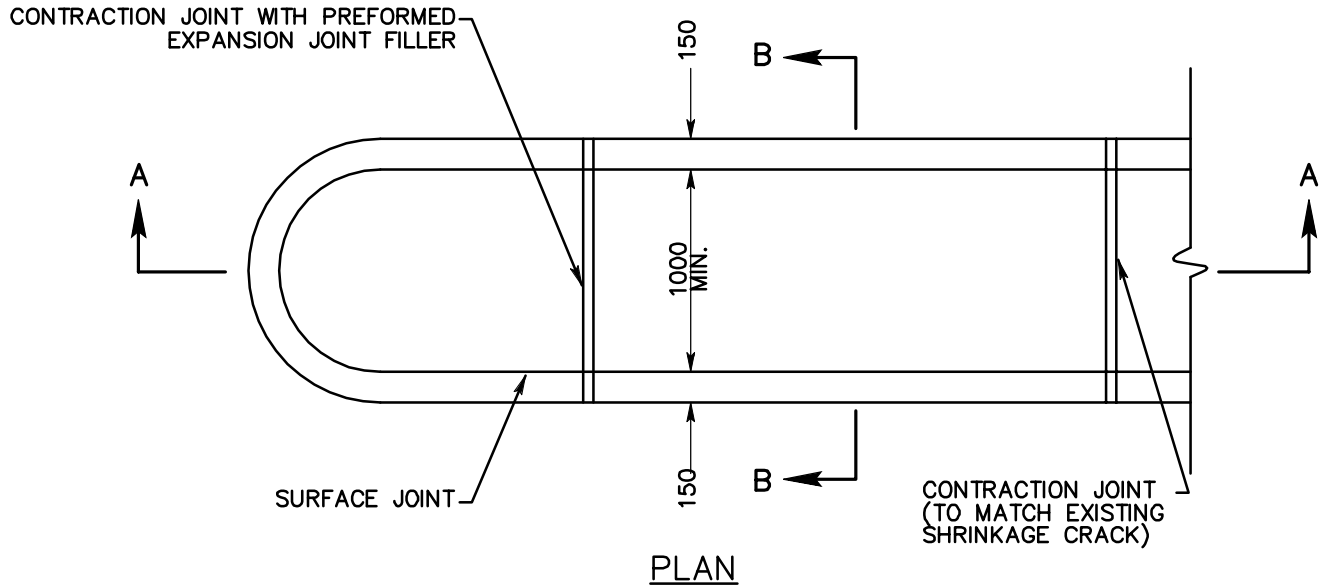
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CENTRE MEDIAN – END TREATMENT	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-40
Date: 2009-04-16	Drawn:	Scale NTS		





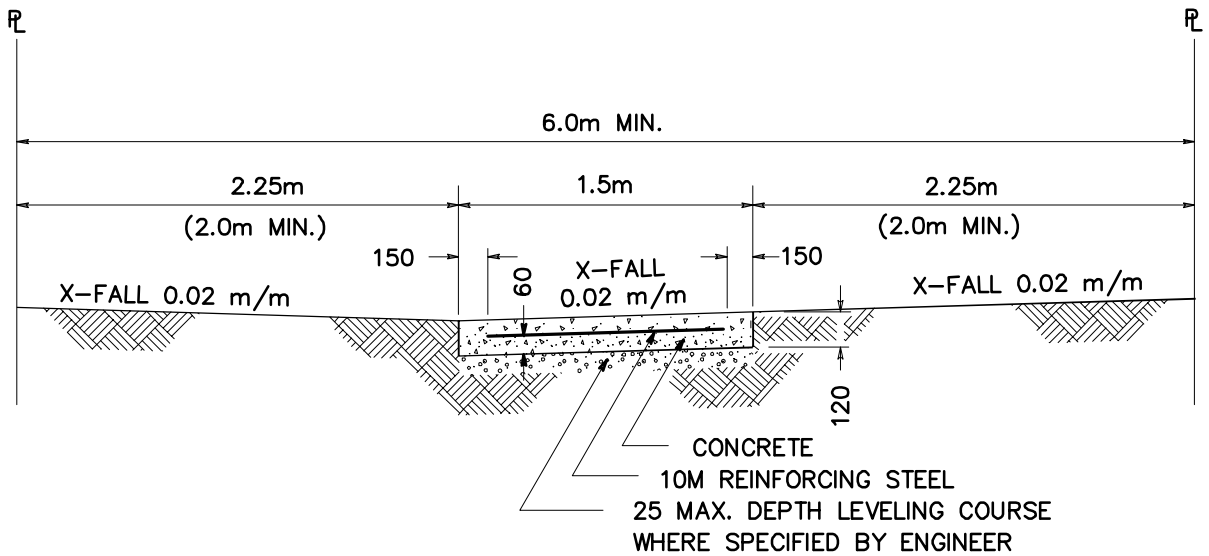
- NOTES:
1. PREFORMED EXPANSION JOINT FILLER SHOULD ALSO BE PLACED AT MATCH TO EXISTING ISLAND.
  2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

# TOWN OF PEACE RIVER

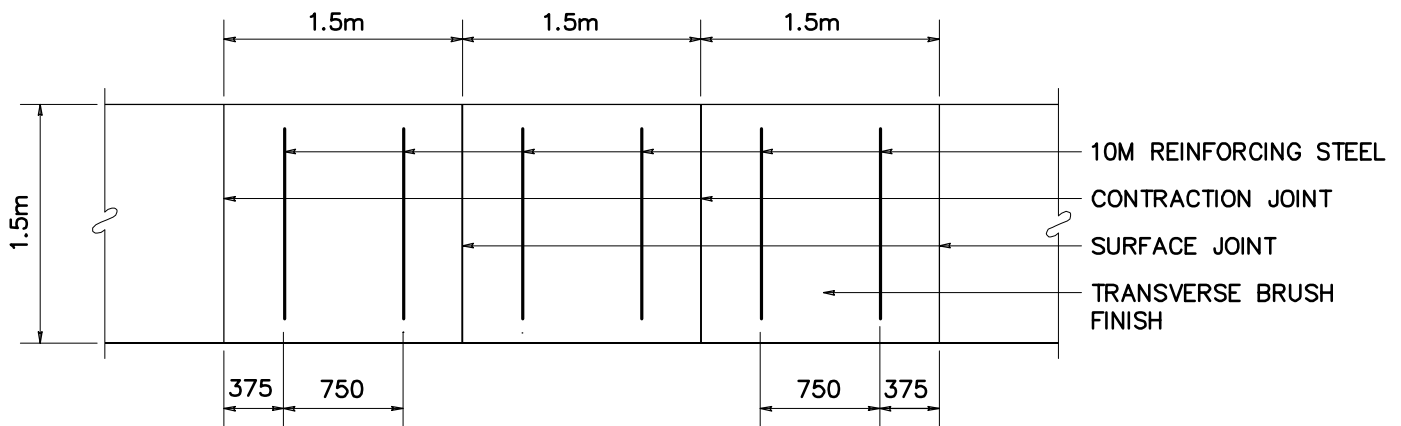
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	CENTRE MEDIAN REHABILITATION	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-41
Date: 2009-04-16	Drawn:	Scale NTS		



TYPICAL SECTION



PLAN VIEW


NOTES:

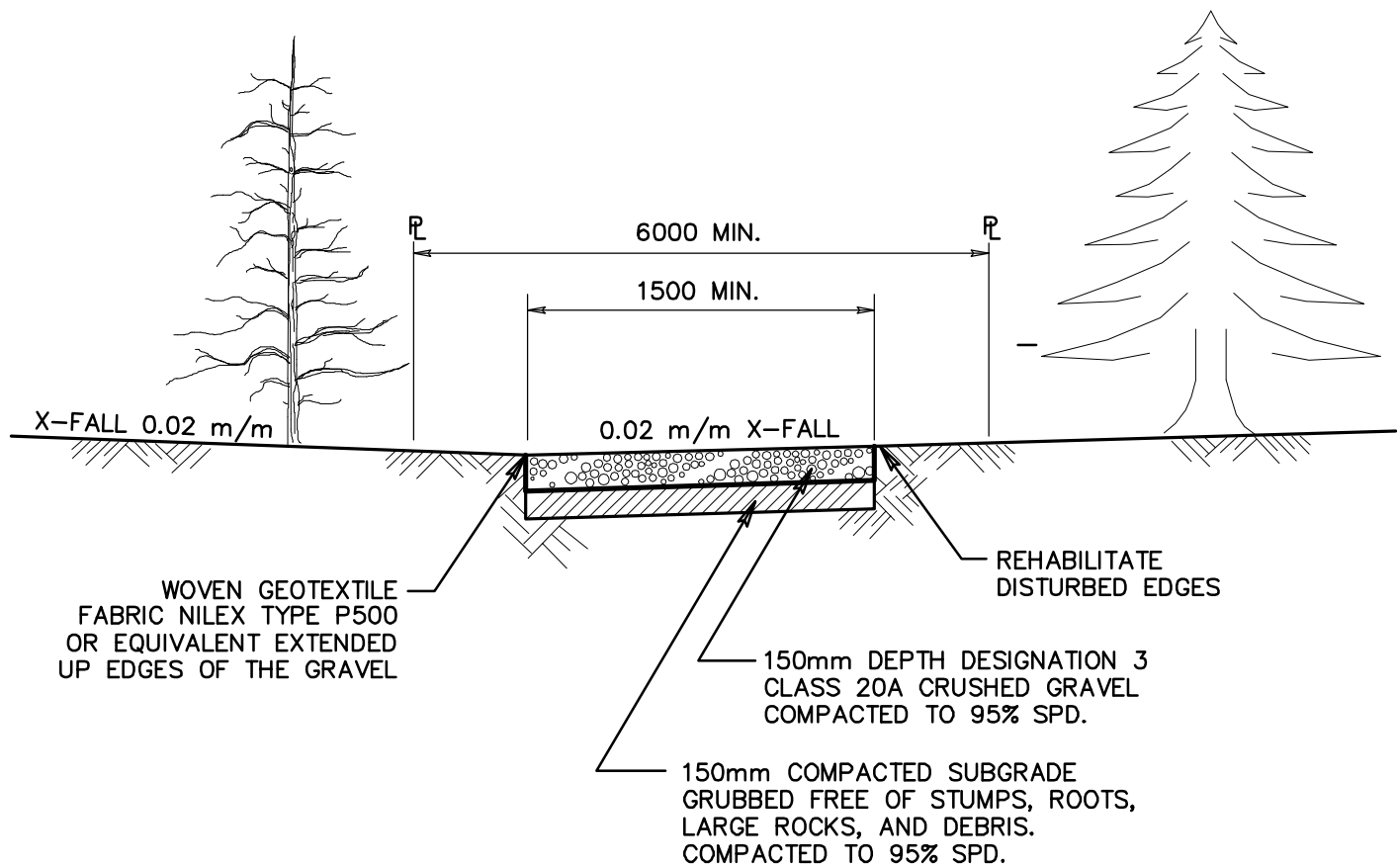
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARD A23.1.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>CONCRETE WALKWAY</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-42</b>
Date: 2009-04-16	Drawn:	Scale NTS		




**TYPICAL SECTION**

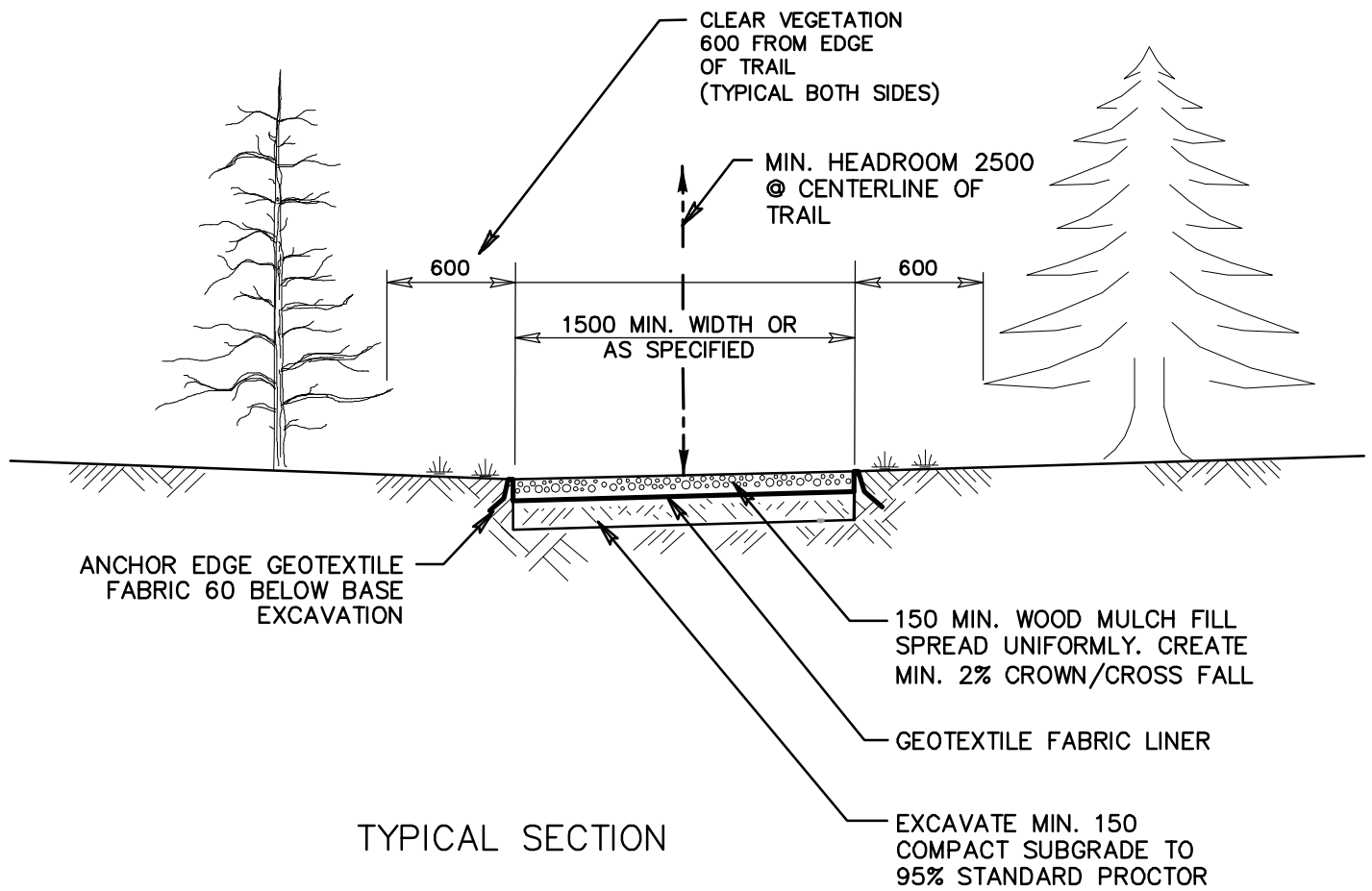
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



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




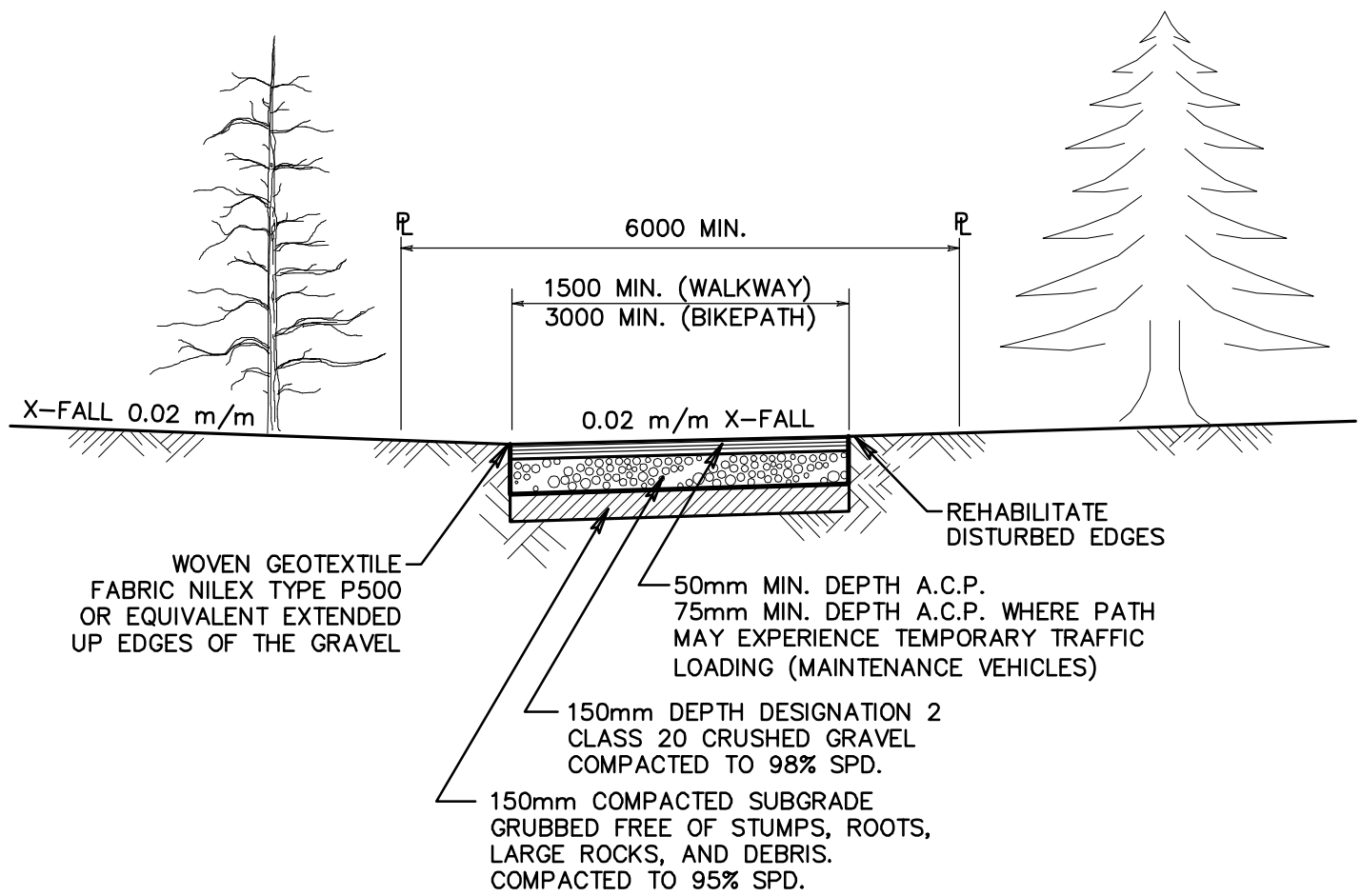
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



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




TYPICAL SECTION

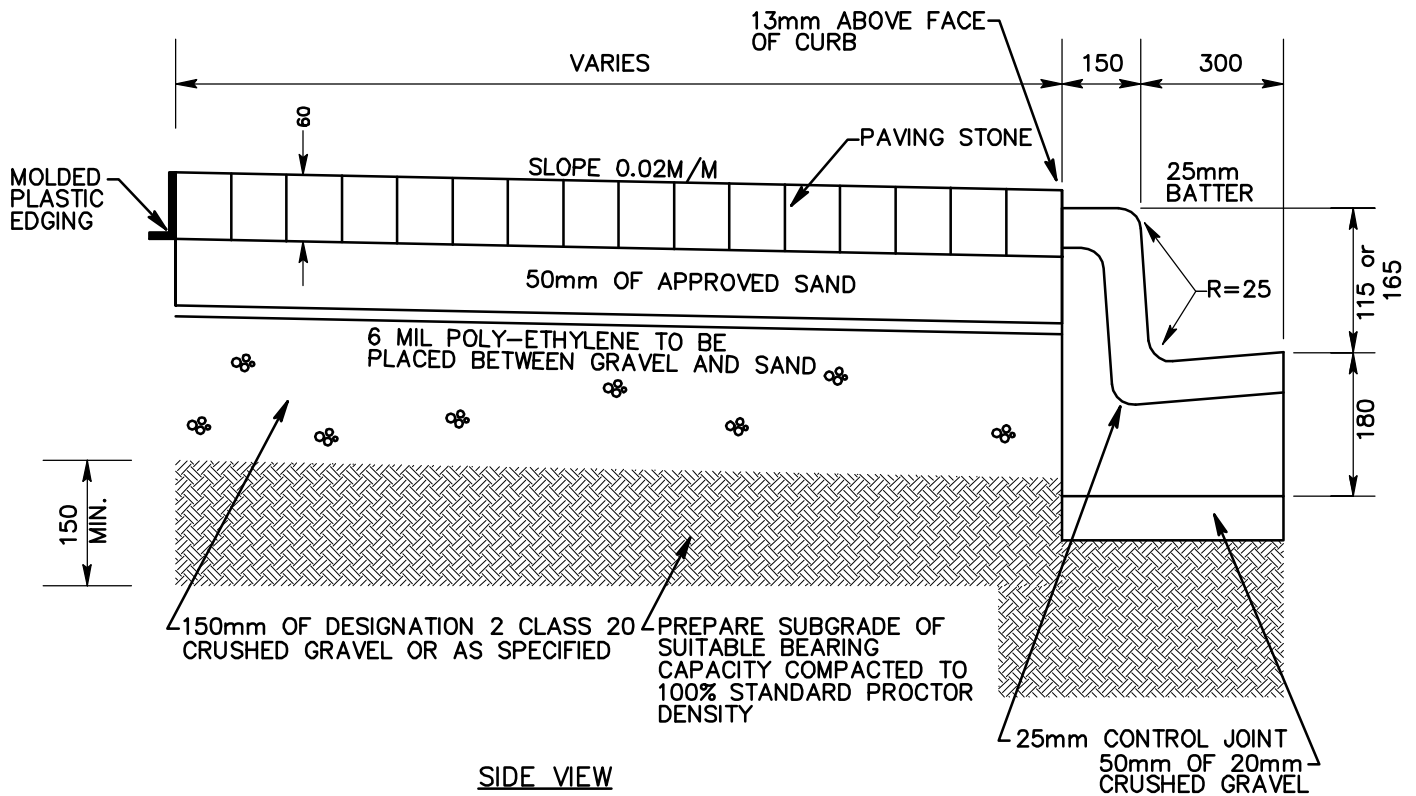
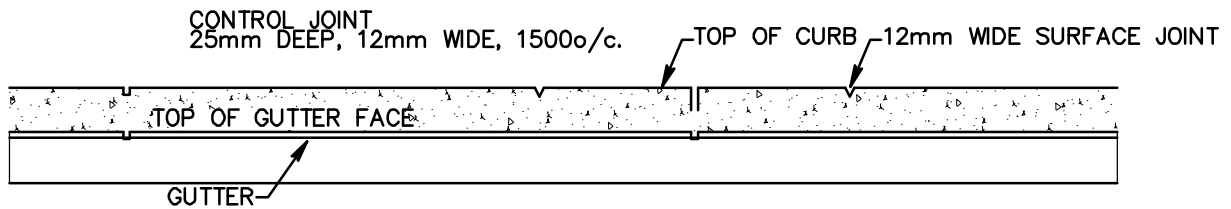
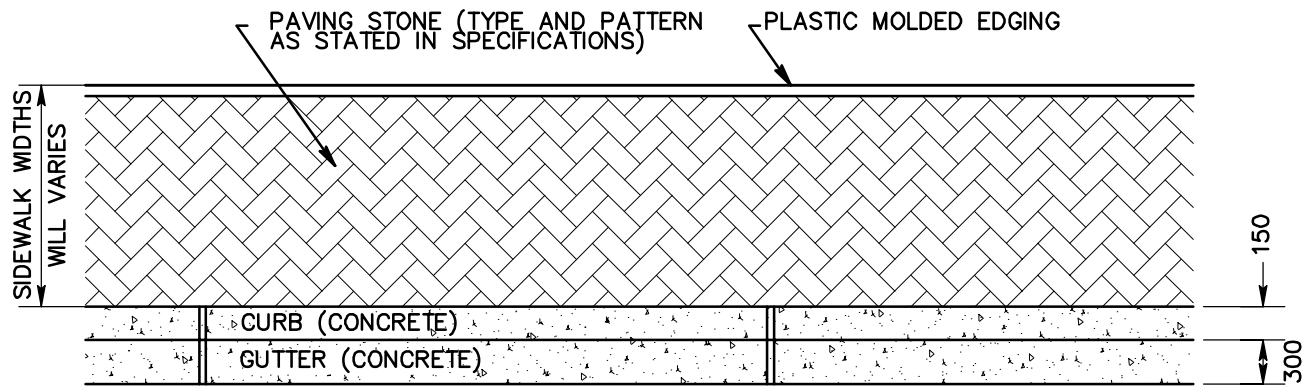
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PAVED WALKWAY / BIKE PATH	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-45
Date: 2009-04-16	Drawn:	Scale NTS		




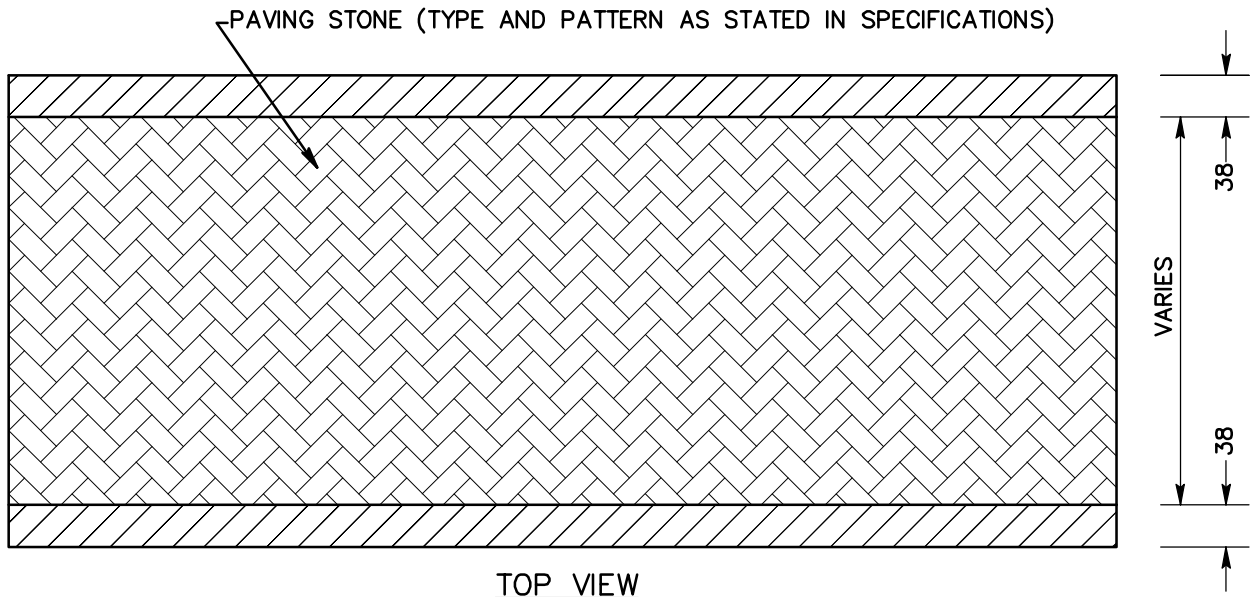
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

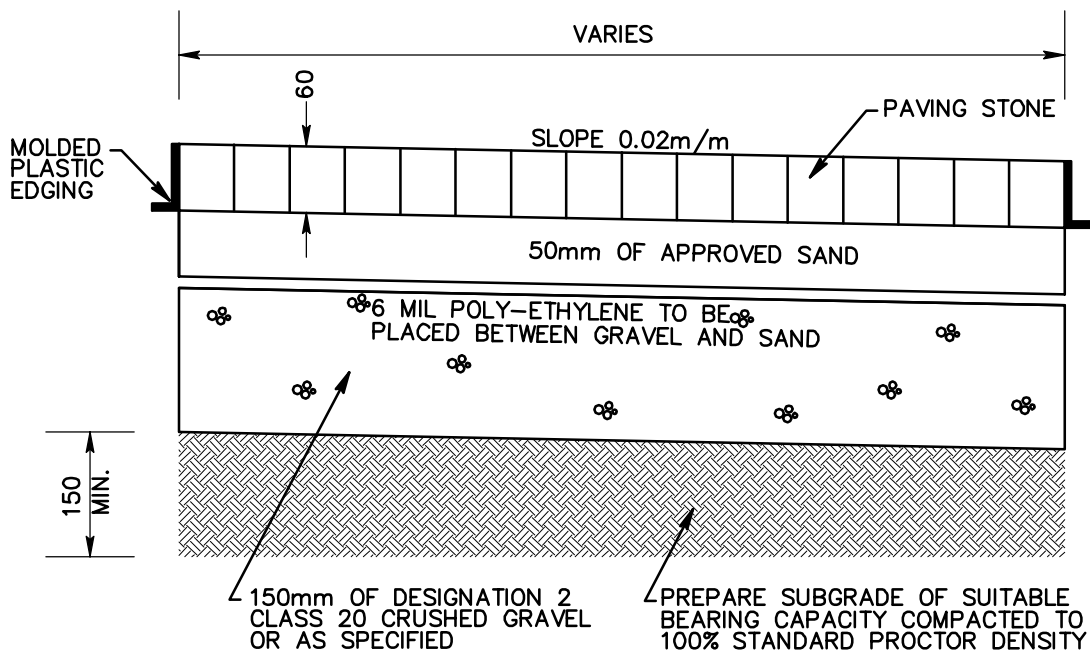
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>COMBINATION STANDARD CRUB &amp; GUTTER WITH PAVING STONE SIDEWALK</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-46
Date: 2009-04-16	Drawn:	Scale NTS		



TOP VIEW




SIDE VIEW

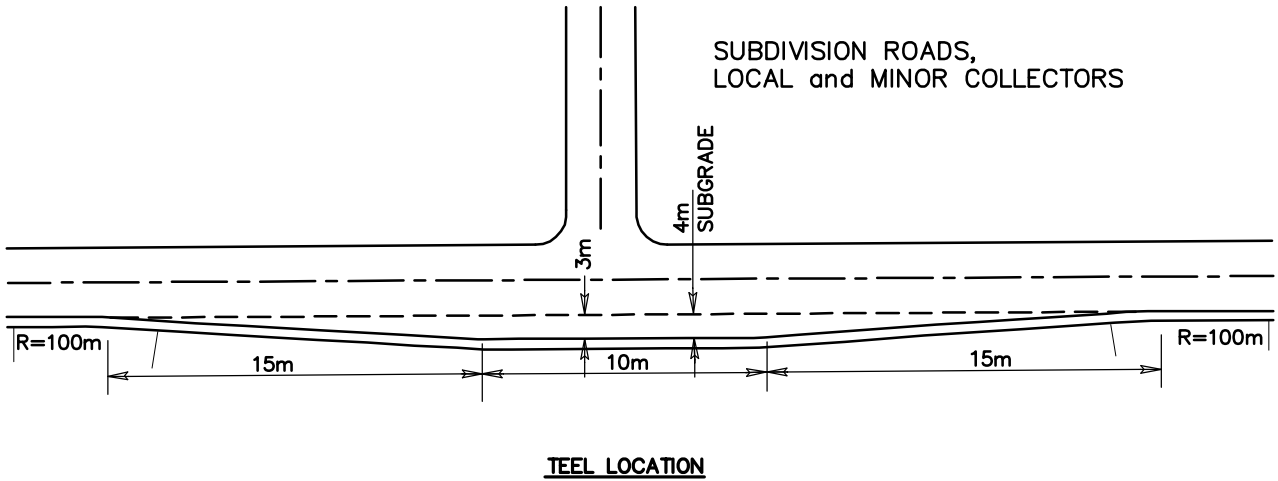
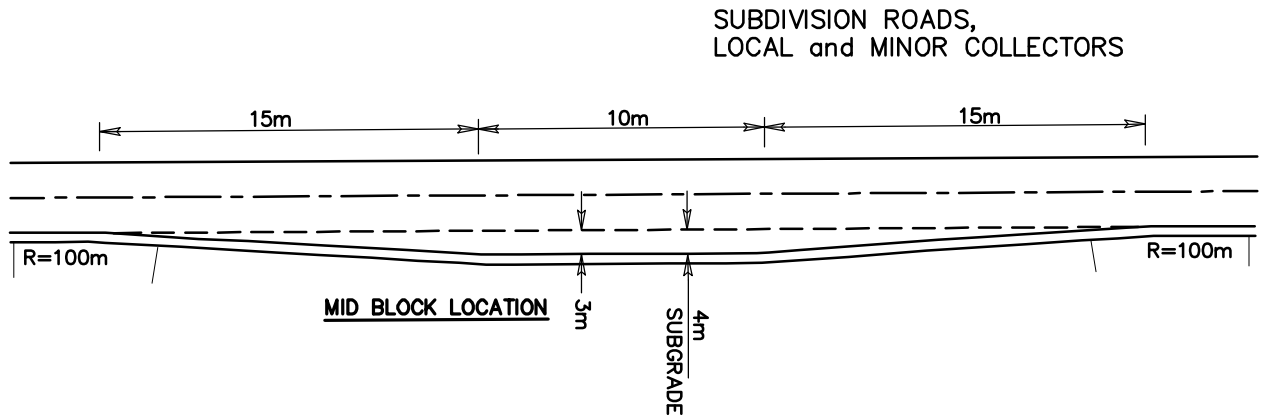
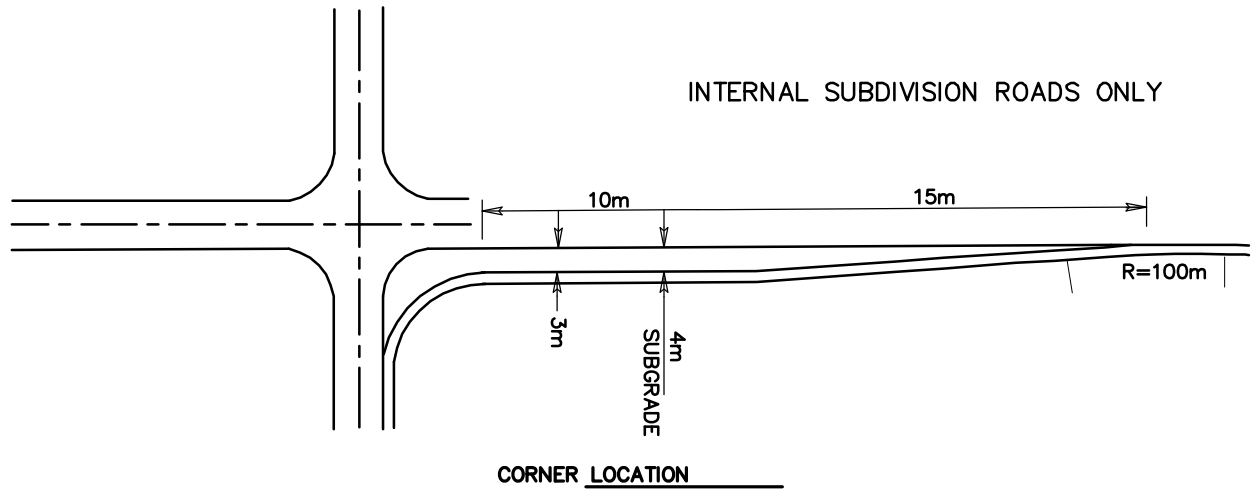
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	PAVING STONE WALKWAY DETAIL	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-47
Date: 2009-04-16	Drawn:	Scale NTS		



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

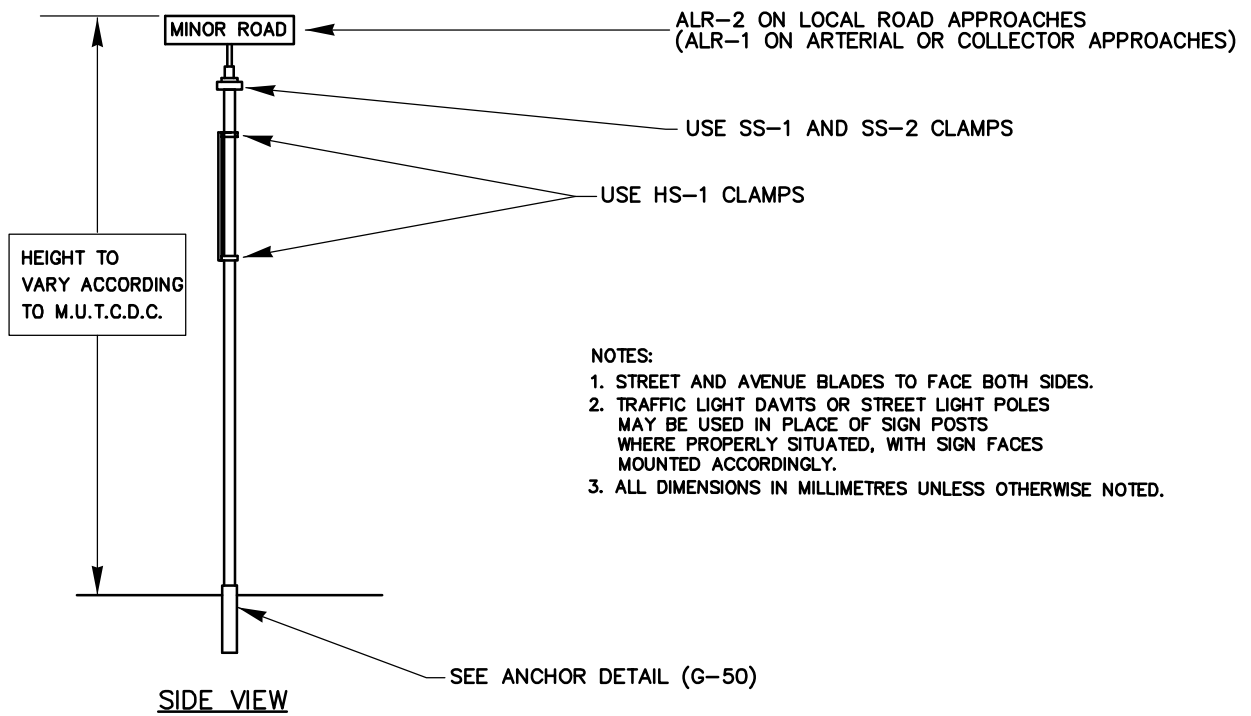
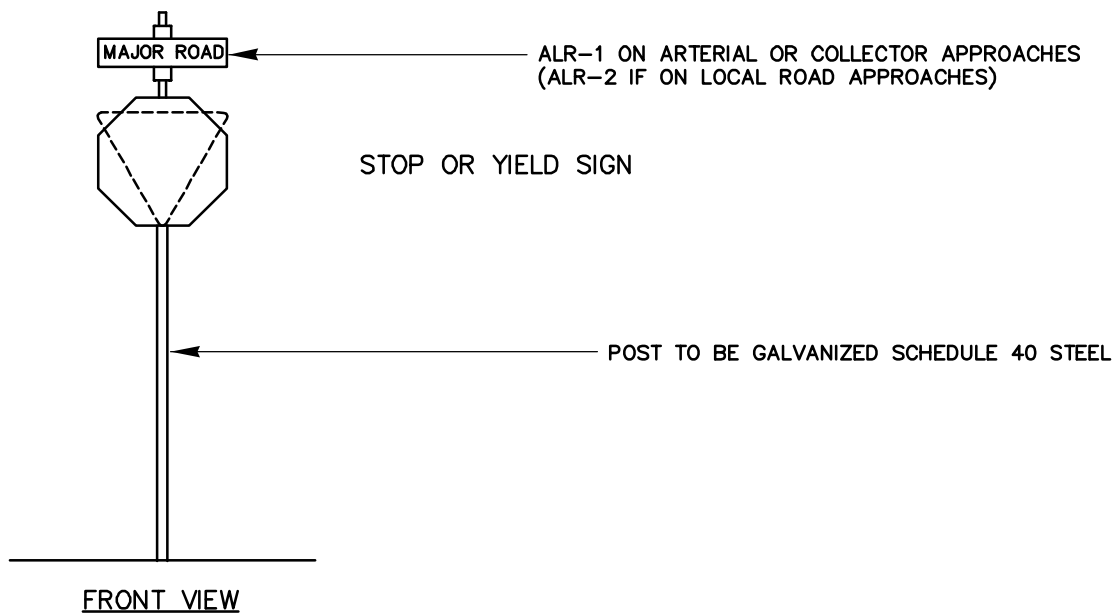
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	<b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL MAILBOX PULLOUT LOCATIONS</b>	
Rev.			Approved:	Figure <b>G-48</b>
Rev.				
Date: 2009-04-16	File No.: GP6033068	Design:		
	Drawn:	Scale NTS		






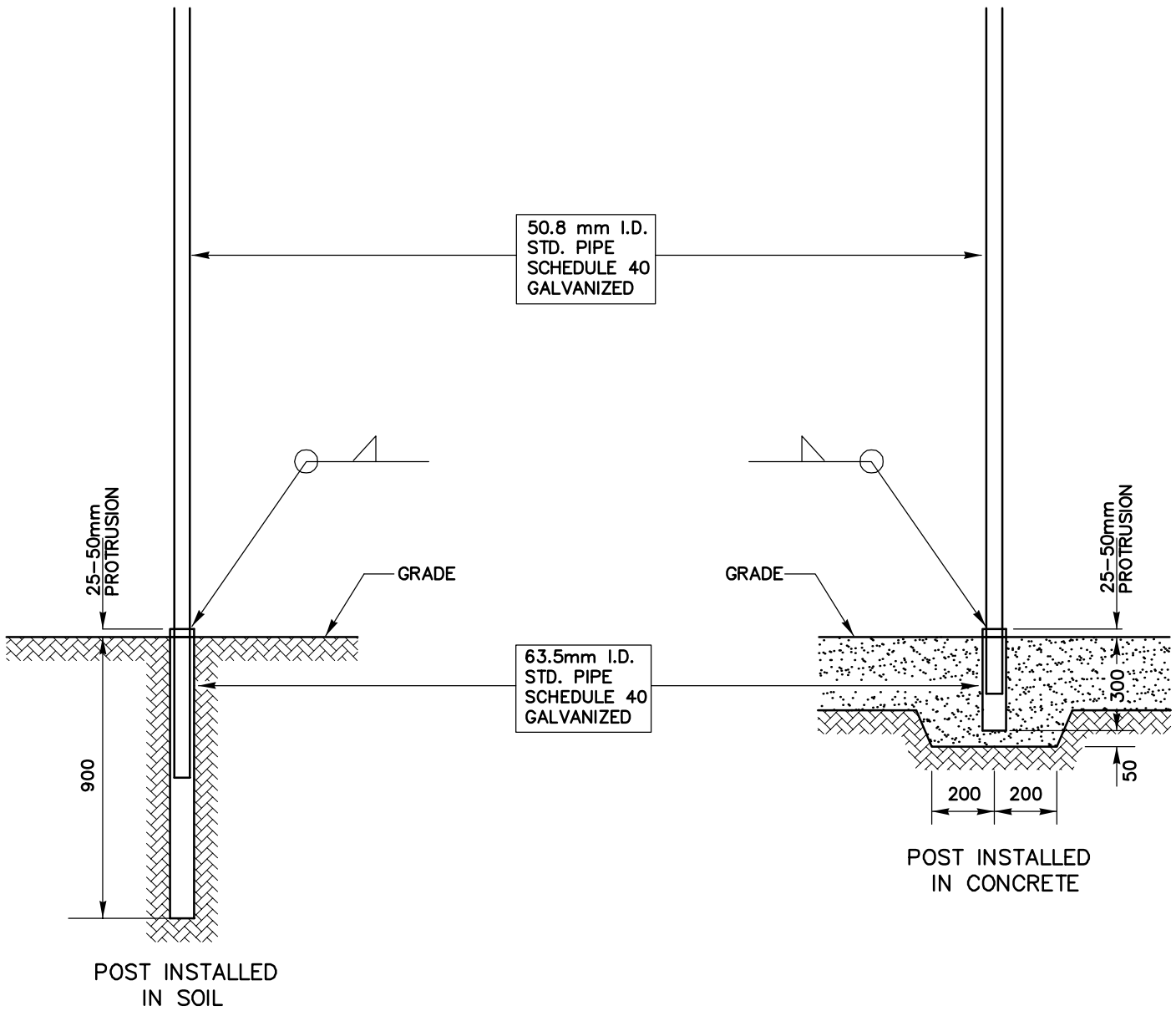
- NOTES:
1. STREET AND AVENUE BLADES TO FACE BOTH SIDES.
  2. TRAFFIC LIGHT DAVITS OR STREET LIGHT POLES MAY BE USED IN PLACE OF SIGN POSTS WHERE PROPERLY SITUATED, WITH SIGN FACES MOUNTED ACCORDINGLY.
  3. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	SIGN MOUNTING DETAILS	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn: GGB	Scale NTS		G-49



NOTES:

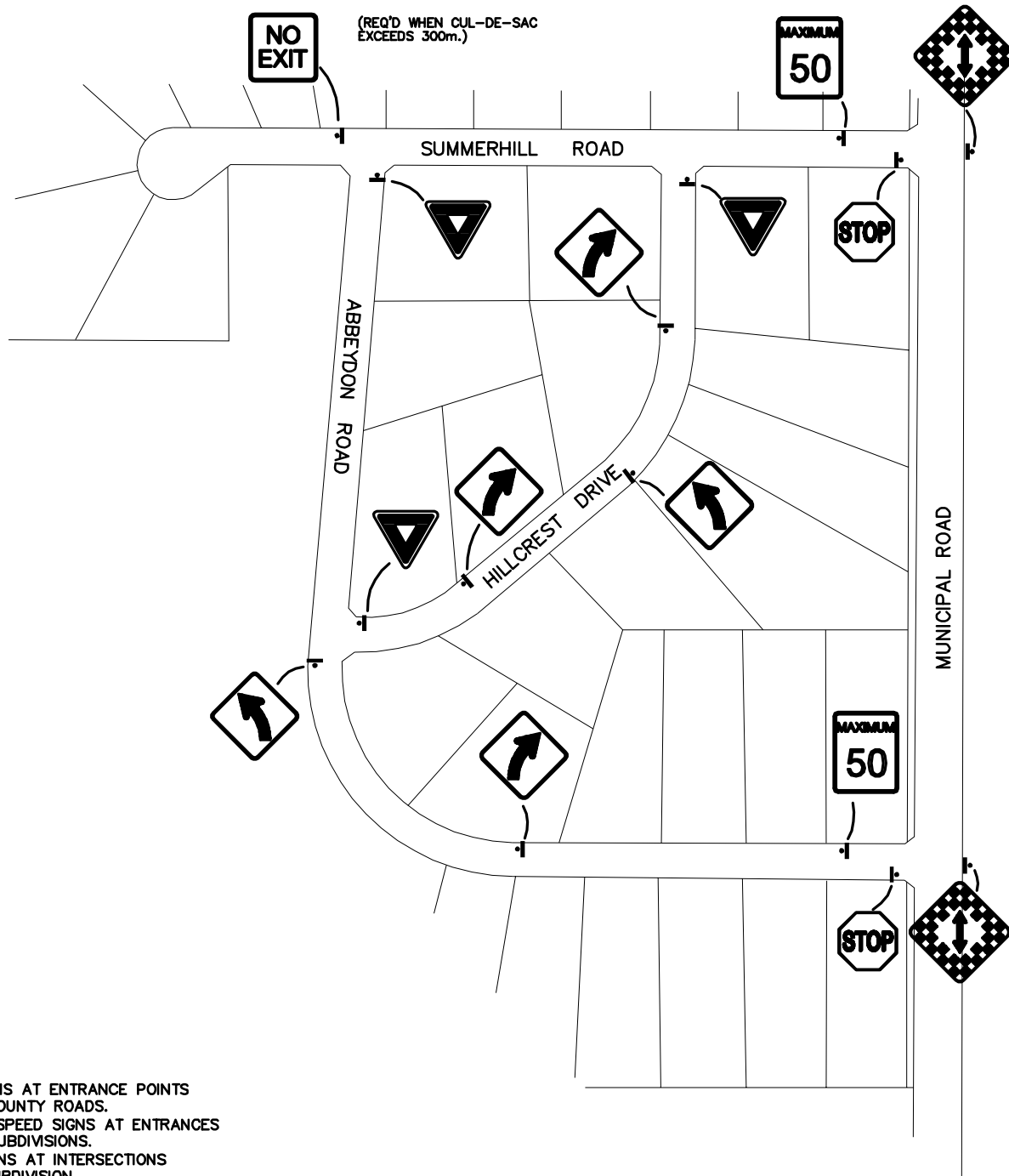
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>SIGN POST ANCHOR DETAIL</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-50</b>
Date: 2009-04-16	Drawn:	Scale NTS		




**NOTES:**

1. STOP SIGNS AT ENTRANCE POINTS TO ALL COUNTY ROADS.
2. 50km/h SPEED SIGNS AT ENTRANCES TO ALL SUBDIVISIONS.
3. YIELD SIGNS AT INTERSECTIONS WITHIN SUBDIVISION.
4. TURNING SIGNS AT BEGINNING OF CURVE.
5. ANY OTHER TRAFFIC SIGNS DEEMED NECESSARY BY THE MUNICIPALITY.
6. STANDARD AND INSTALLATION SHALL CONFORM TO RTAC.
7. ALL SIGNS SHALL BE REFLECTORIZED.
8. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



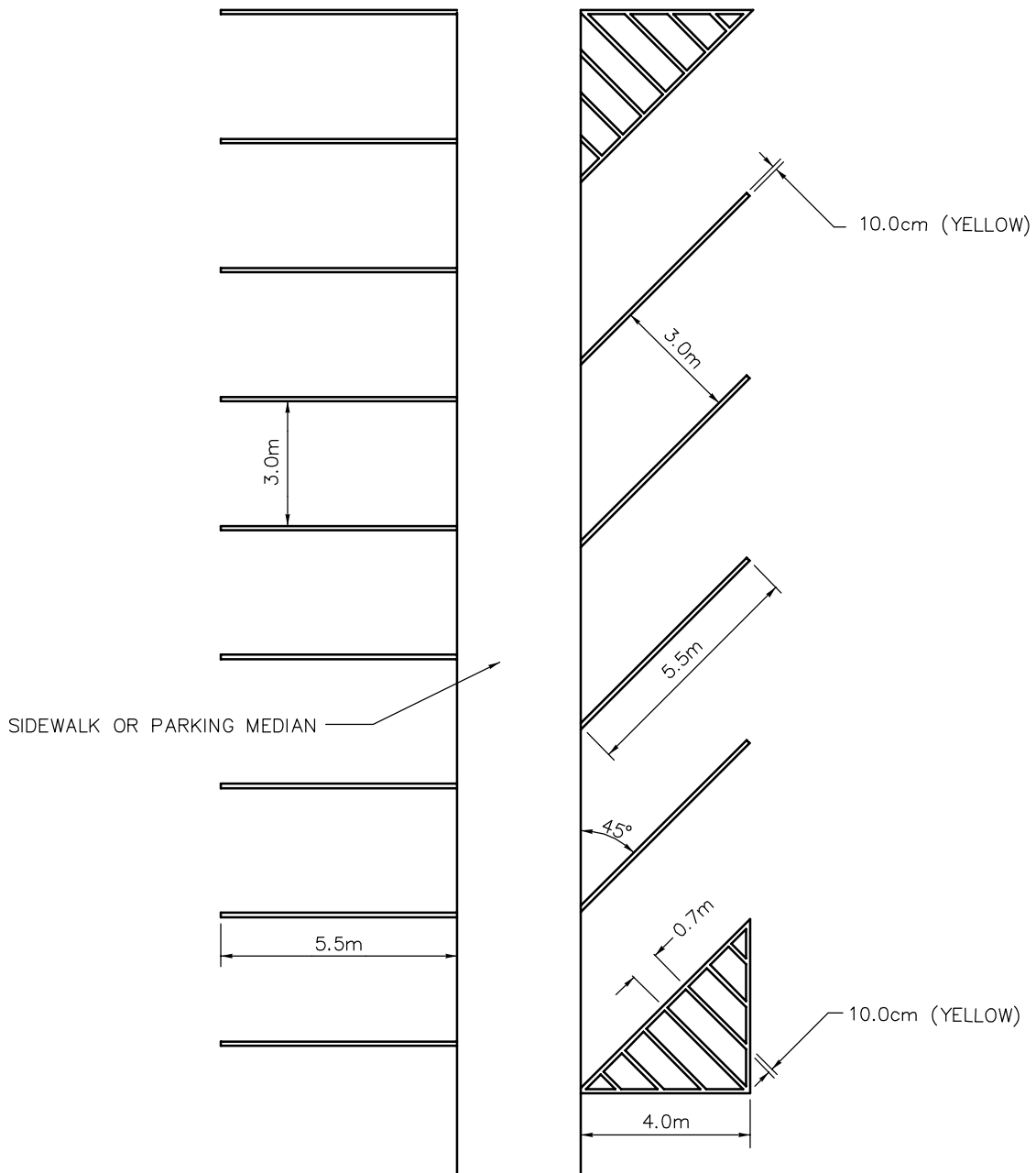
Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL TRAFFIC SIGN LAYOUT          RURAL STANDARD</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-51</b>
Date: 2009-04-16	Drawn:	Scale NTS		

TYPE 1

TYPE 2

90 DEGREE

ANGLE



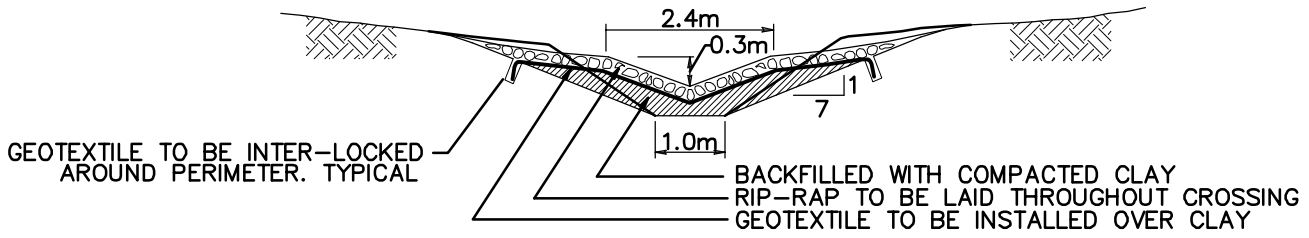
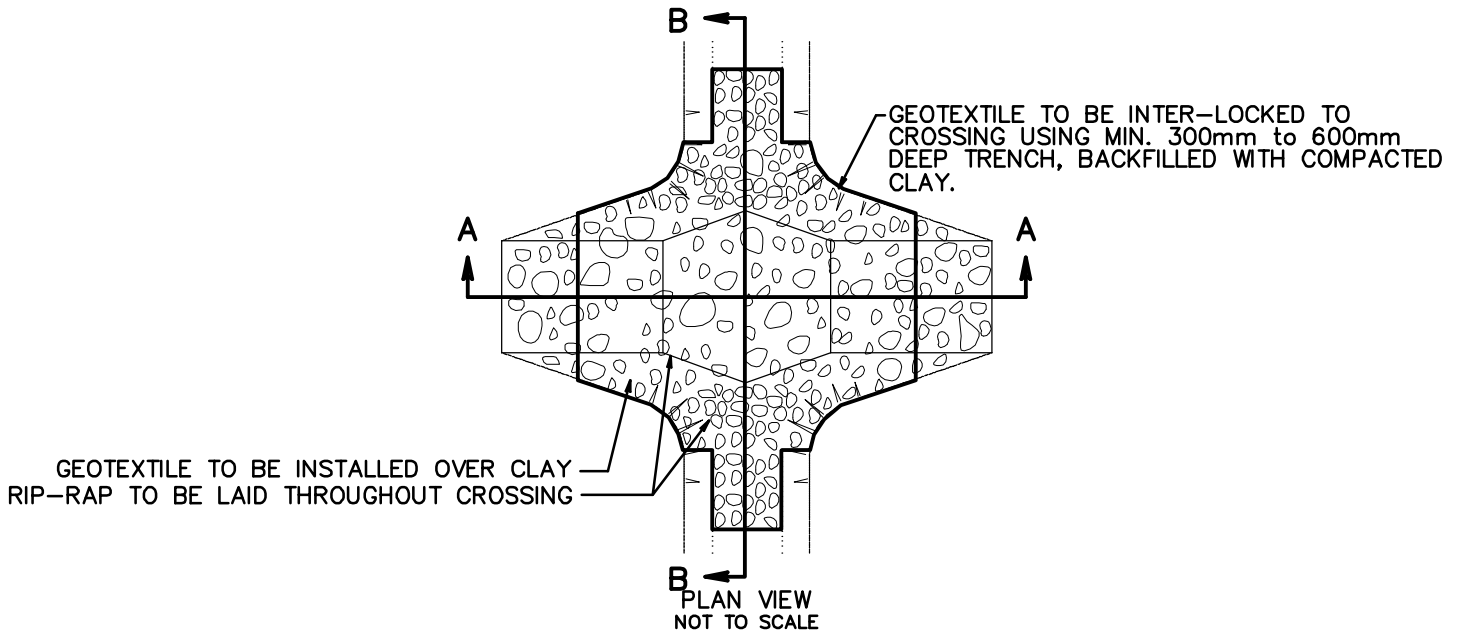
NOTE:  
 1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

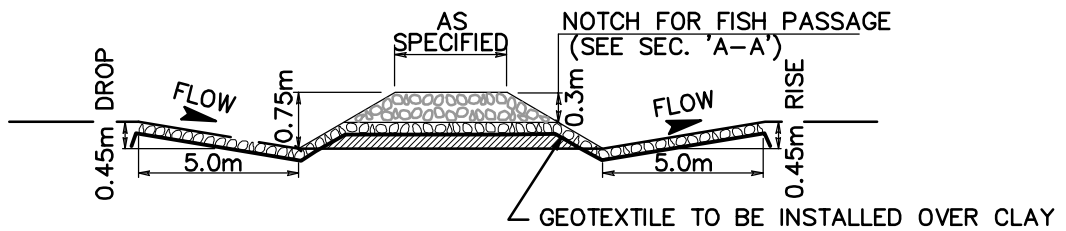
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>PARKING LOT MARKINGS          TYPE 1 AND 2</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-52
Date: 2009-04-16	Drawn:	Scale NTS		



SECTION 'A-A'  
1:200 H. 1:100 V.



SECTION 'B-B'  
1:200 H. 1:100 V.


**NOTES:**

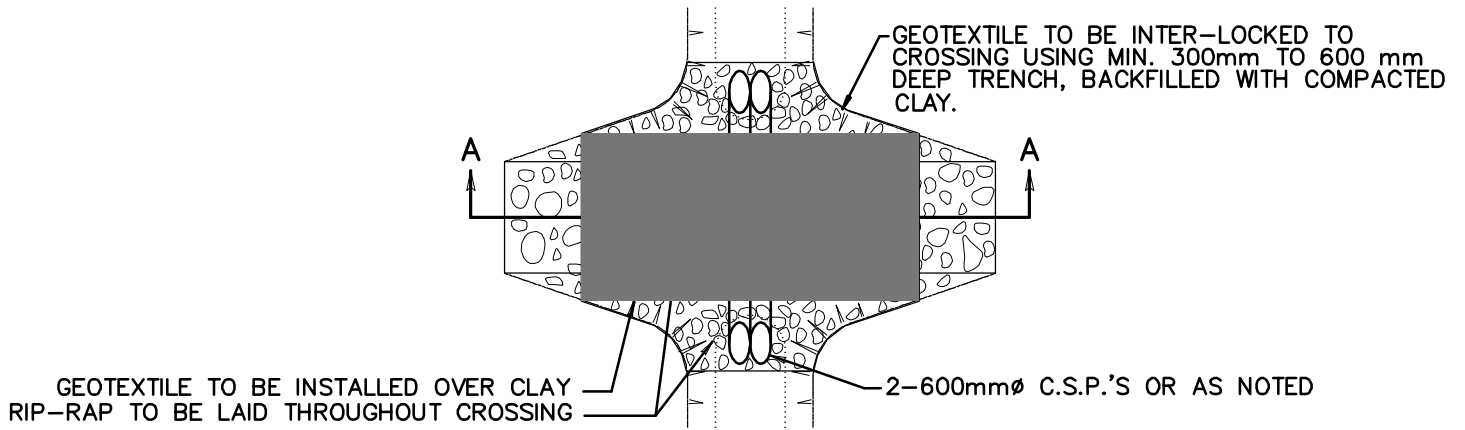
1. GEOTEXTILE OVERLAPS TO BE A MIN. OF 300mm.
2. ROCKED LINED CROSSING: USE 150mm-200mm ROCK, MAT THICKNESS 300mm.
3. EXTEND TO FULL WIDTH, LENGTH & SIDESLOPE OF CROSSING AS WELL AS UPSTREAM & DOWNSTREAM. SPRAY SLURRY MIX CONCRETE (5MPa) TO FILL VOIDS (TOP ONLY).
4. ALL DIMENSIONS IN MILLIMETRES UNLESS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

# TOWN OF PEACE RIVER

General Municipal Servicing Standards

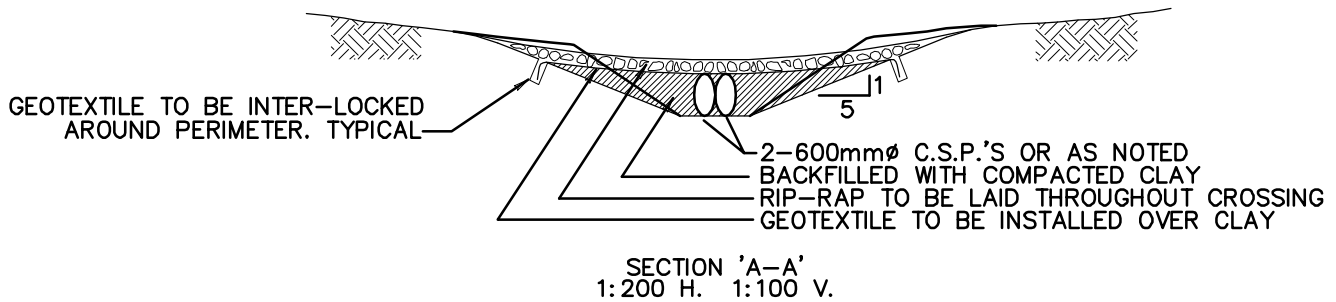


Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>LOW LEVEL X-ING NO CULVERT</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-53</b>
Date: 2009-04-16	Drawn:	Scale NTS		



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

PLAN VIEW  
N.T.S




SECTION 'A-A'  
1:200 H. 1:100 V.

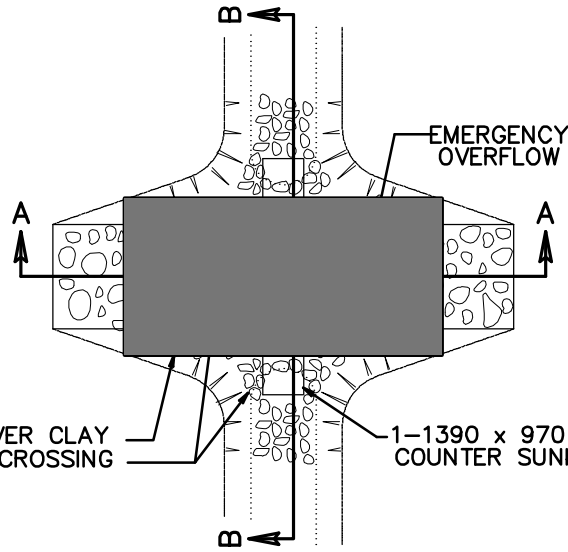
NOTE:  
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



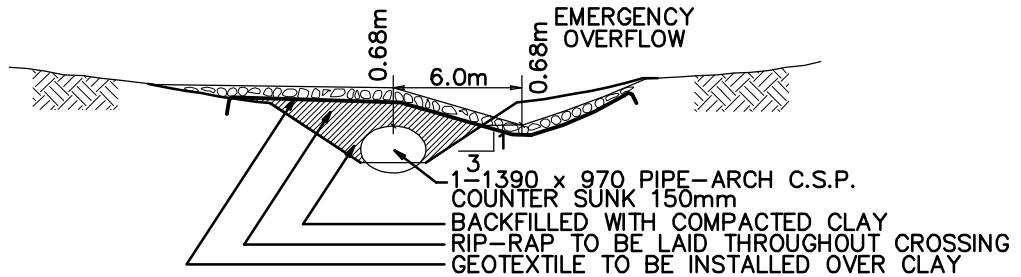
Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>LOW LEVEL X-ING WITH CULVERT</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-54</b>
Date: 2009-04-16	Drawn:	Scale NTS		



GEOTEXTILE TO BE INSTALLED OVER CLAY  
RIP-RAP TO BE LAID THROUGHOUT CROSSING

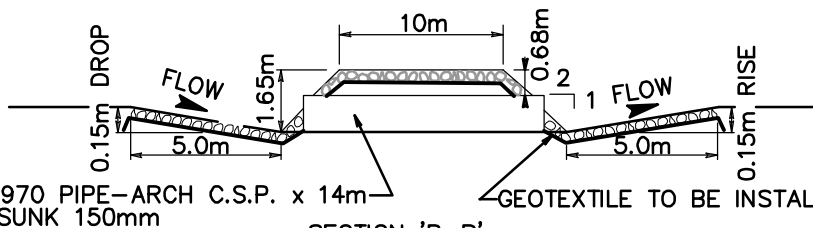
1-1390 x 970 PIPE-ARCH C.S.P.  
COUNTER SUNK 150mm

PLAN VIEW  
Not to Scale



1-1390 x 970 PIPE-ARCH C.S.P.  
COUNTER SUNK 150mm  
BACKFILLED WITH COMPACTED CLAY  
RIP-RAP TO BE LAID THROUGHOUT CROSSING  
GEOTEXTILE TO BE INSTALLED OVER CLAY

SECTION 'A-A'  
Not to Scale



1-1390 x 970 PIPE-ARCH C.S.P. x 14m  
COUNTER SUNK 150mm

GEOTEXTILE TO BE INSTALLED OVER CLAY

SECTION 'B-B'  
Not to Scale


NOTES:

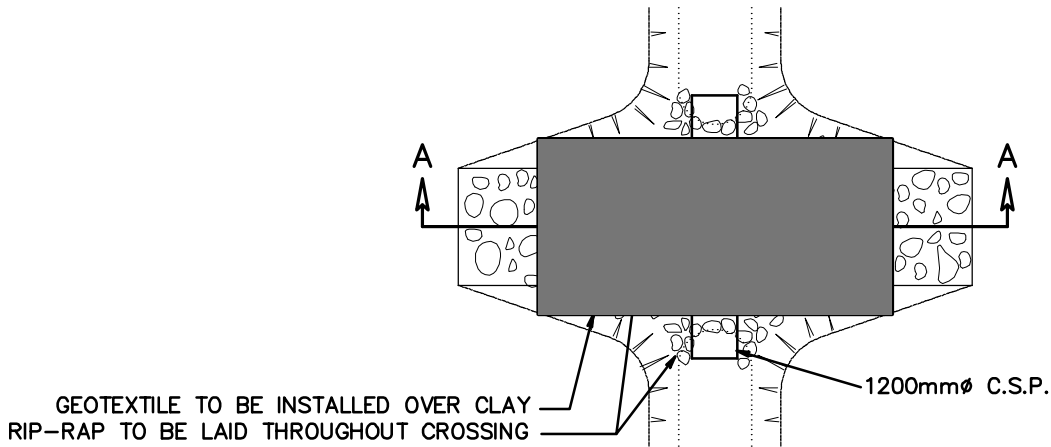
1. GEOTEXTILE OVERLAPS TO BE A MIN. OF 300mm.
2. ROCK LINED CROSSING: USE 150mm - 200mm ROCK, MAT THICKNESS 300mm.
3. EXTEND TO FULL WIDTH, LENGTH & SIDESLOPE OF CROSSING AS WELL AS UPSTREAM & DOWNSTREAM AND OVERFLOW CHANNEL.
4. SPRAY SLURRY CONCRETE (5MPa) TO FILL VOIDS (TOP ONLY).
5. ALL DIMENSIONS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

# TOWN OF PEACE RIVER

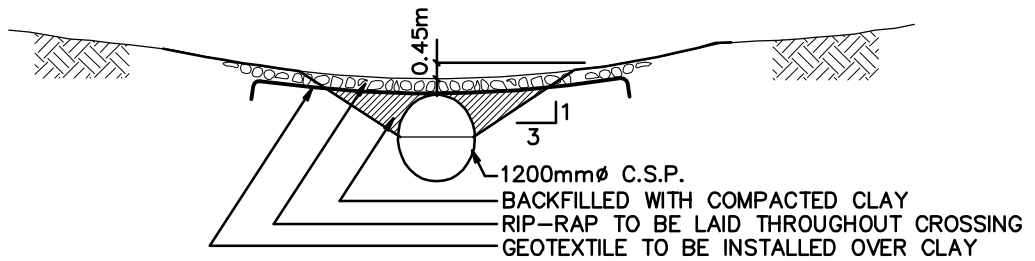
General Municipal Servicing Standards



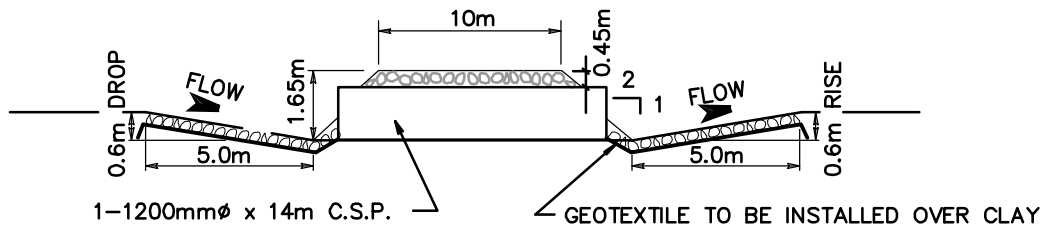
Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>LOW LEVEL X-ING WITH CULVERT</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-55</b>
Date: 2009-04-16	Drawn:	Scale NTS		



PLAN VIEW  
Not to Scale



SECTION 'A-A'  
Not to Scale



SECTION 'B-B'  
Not to Scale


NOTES:

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. SPRAY SLURRY MIX CONCRETE (5MPa) TO FILL FOIDS (TOP ONLY).
4. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

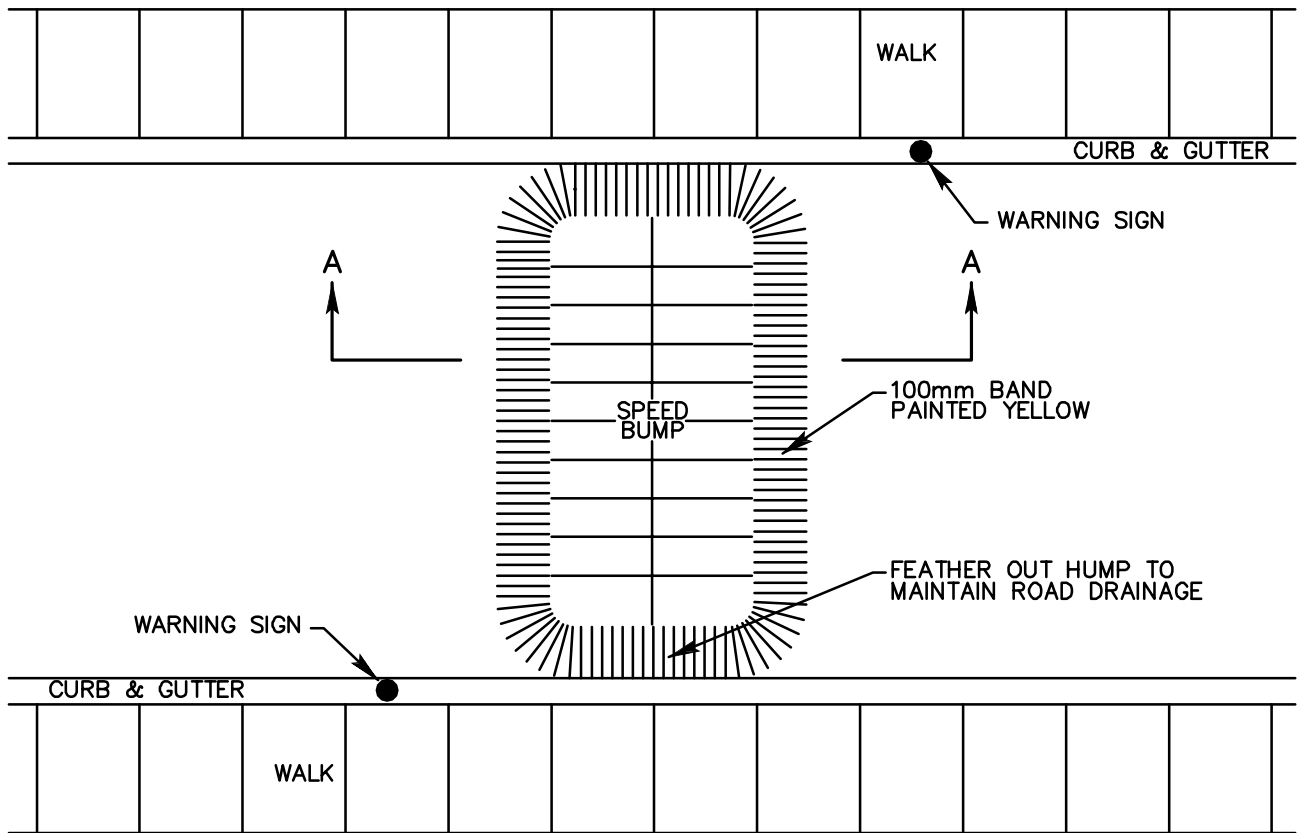
# TOWN OF PEACE RIVER

General Municipal Servicing Standards

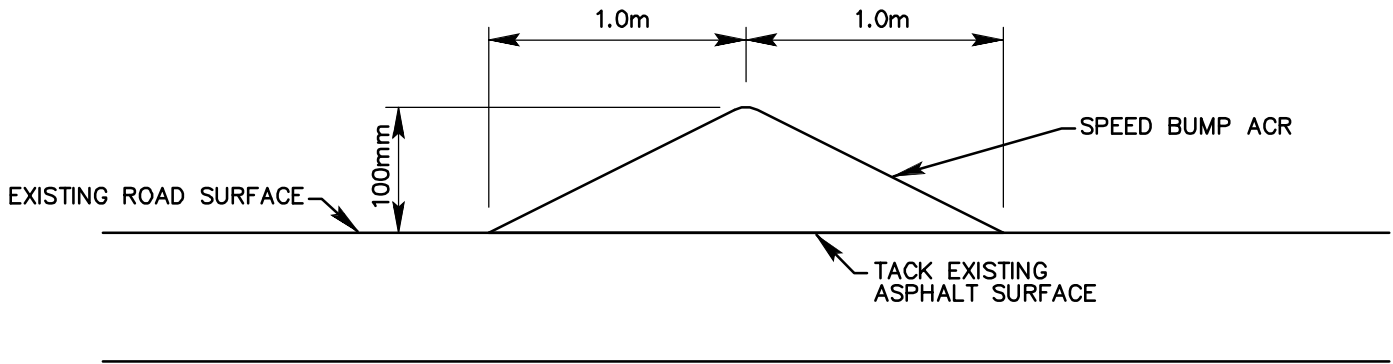


Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	LOW LEVEL X-ING WITH CULVERT	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-56
Date: 2009-04-16	Drawn:	Scale NTS		





PLAN



SECTION A-A


NOTE:

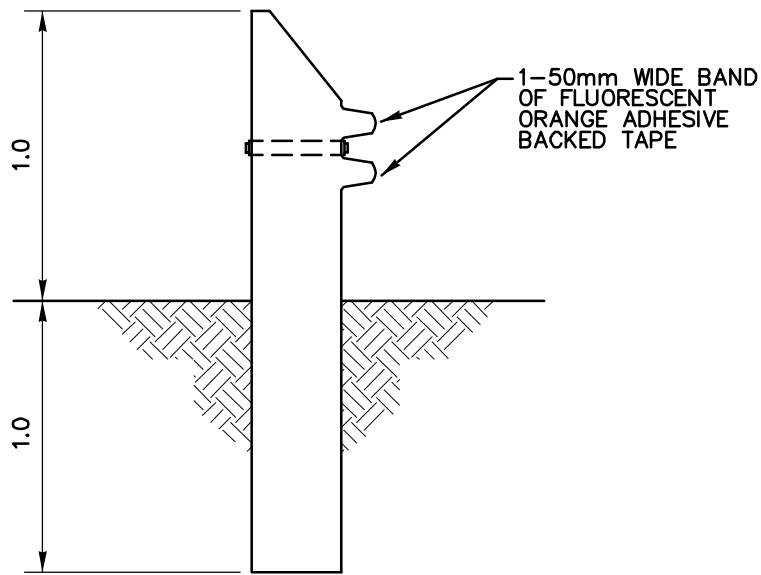
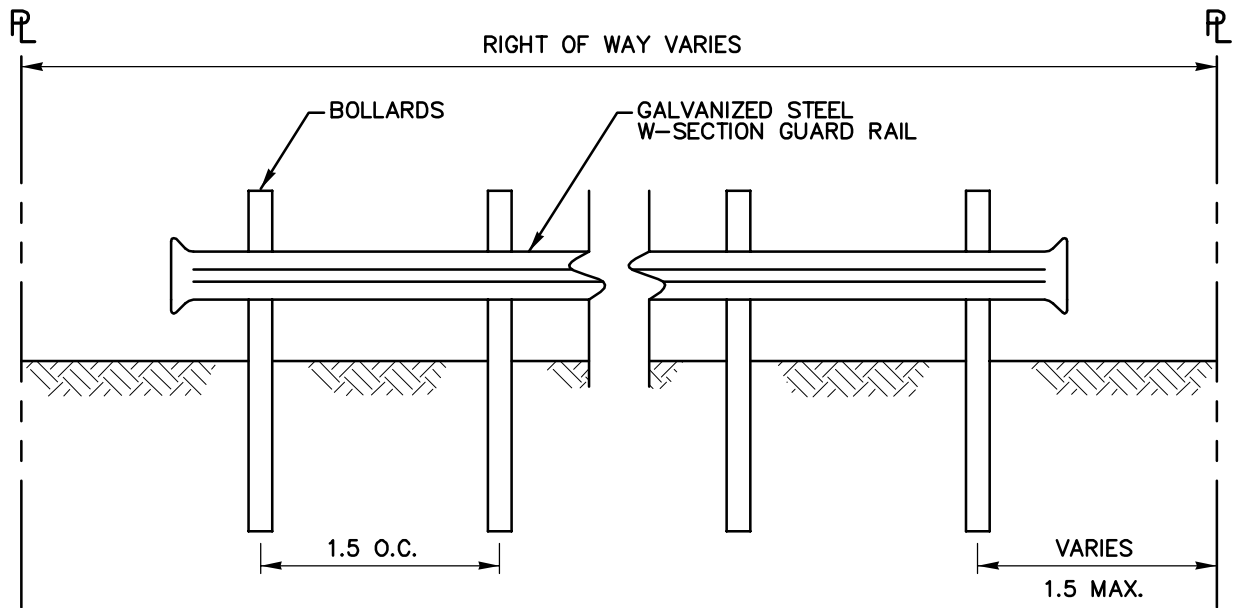
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>ASPHALT SPEED BUMP</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn:	Scale NTS		




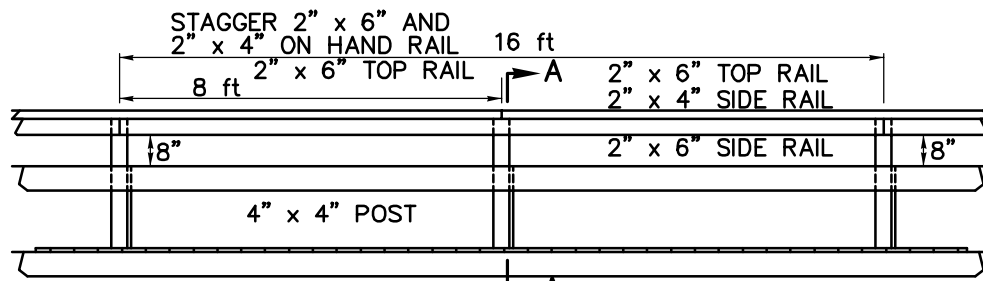
- NOTES:  
 1. ALL HARDWARE TO BE GALVANIZED.  
 2. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

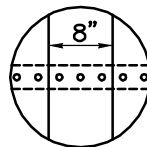
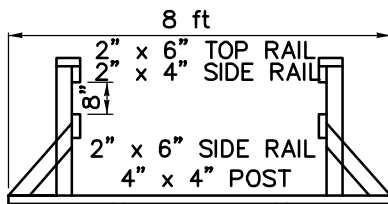
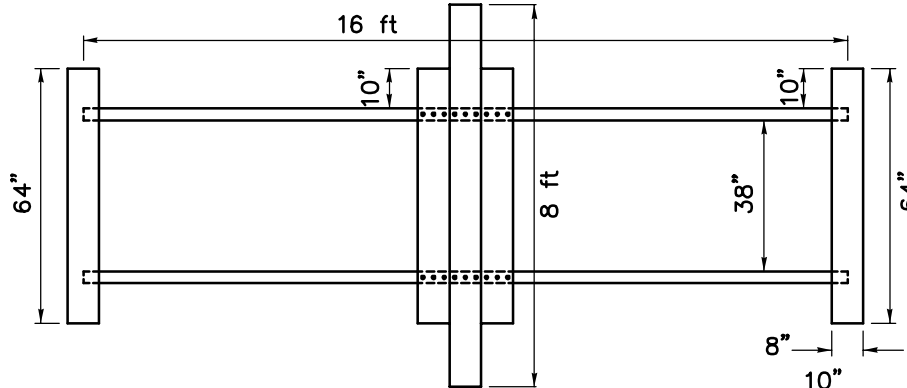
General Municipal Servicing Standards



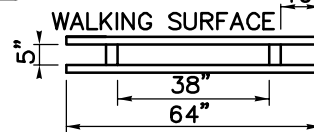
Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	TYPICAL BOLLARD WITH GALVANIZED STEEL W-SECTION		Figure G-58
Rev.					
Rev.			Date: 2009-04-16	Drawn:	Scale NTS



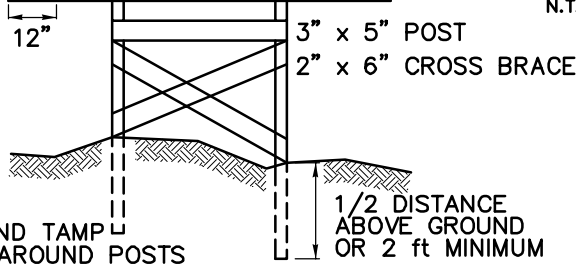
BASE PLATE 2"x8"x64" ON GROUND AT 8 ft SPAN  
ALTERNATE USE PLASTIC ON GROUND OR 6"x8"x64"



DETAIL  
N.T.S.

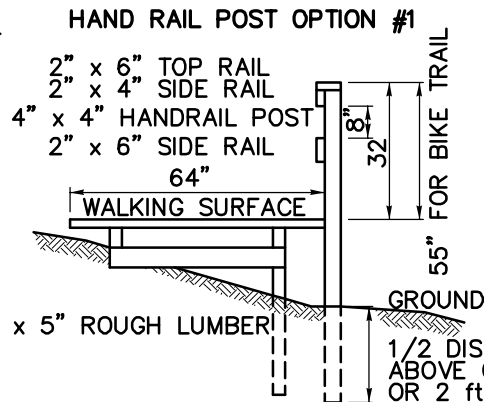


BASE PLATE 2"x8"x64"  
GROUND AT 8 ft SPAN  
ALTERNATE USE PLASTIC  
ON GROUND OR 6"x8"x64"

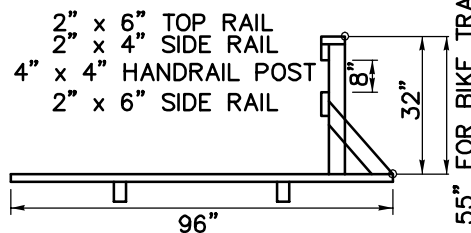


AUGER AND TAMP  
GROUND AROUND POSTS

X-SECTION A-A  
N.T.S.



HAND RAIL POST OPTION #2



NOTES:

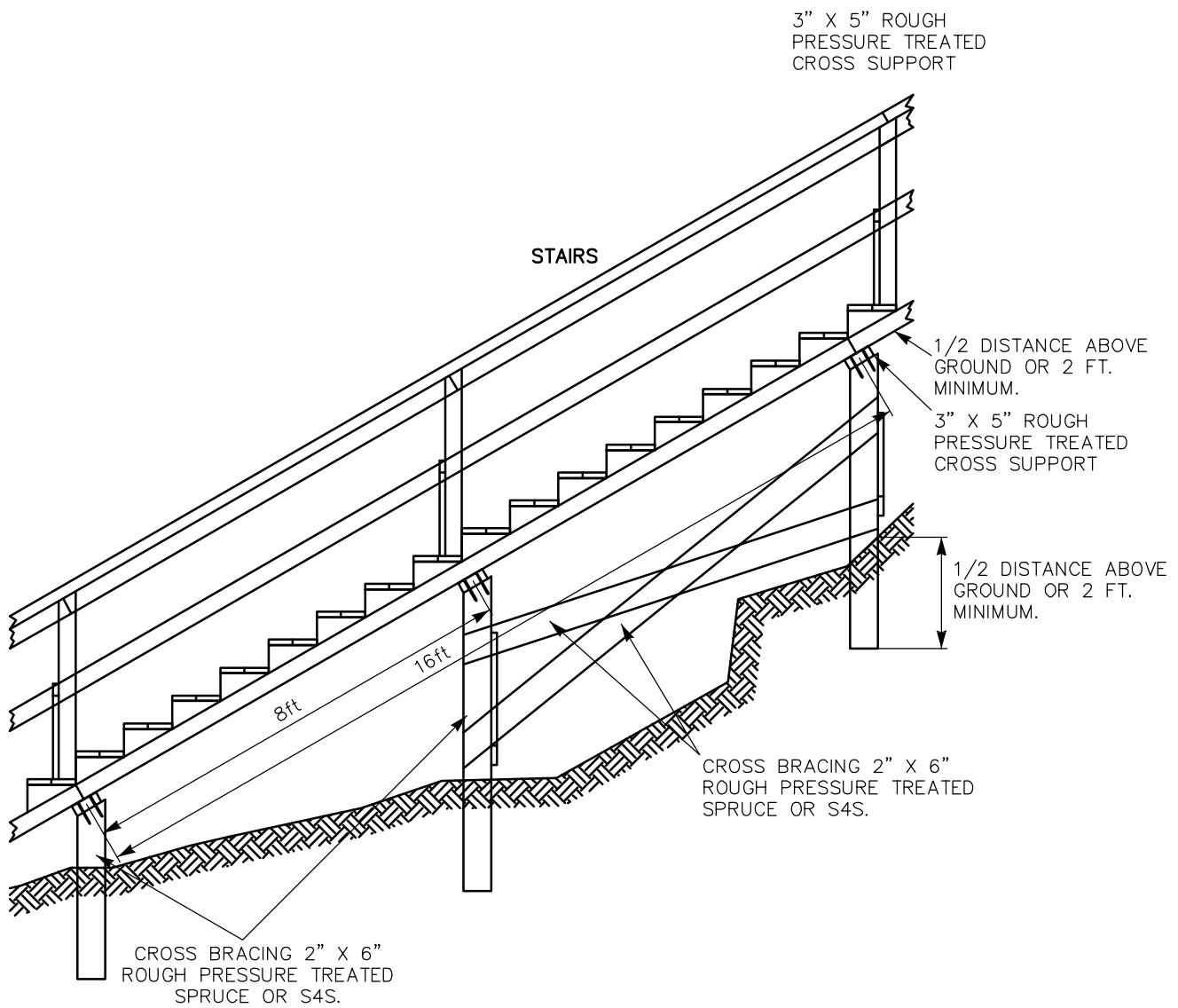
1. STRINGERS ARE 3"x5"x16' ROUGH PRESSURE TREATED.
2. BASE PLATE: A: 2"x8"x64" ROUGH PRESSURE TREATED.  
B: 2(3/8)"x5(1/5)" PLASTIC WOOD.  
C: 6"x8"x64" PRESSURE TREATED.
3. TOP BOARDS OR WALKING SURFACE 2"x8"x64" ROUGH PRESSURE TREATED.
4. HANDRAIL: A: 2"x4"x16' S/4/S PRESSURE TREATED (SIDE RAIL).  
B: 2"x6"x16' S/4/S PRESSURE TREATED (TOP RAIL).  
C: 4"x4"x32' S/4/S PRESSURE TREATED (HANDRAIL POST.)
5. BRACES 2"x8" ROUGH PRESSURE TREATED OUTLOOK TO HOLD HAND RAIL.
6. USE 4" SPIRAL NAILS.
7. ALL DIMENSIONS ARE NOMINAL IMPERIAL UNITS TO CORRESPOND TO STANDARD LUMBER SIZES.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards




Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	WOODEN WALK	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-59
Date: 2009-04-16	Drawn:	Scale NTS		

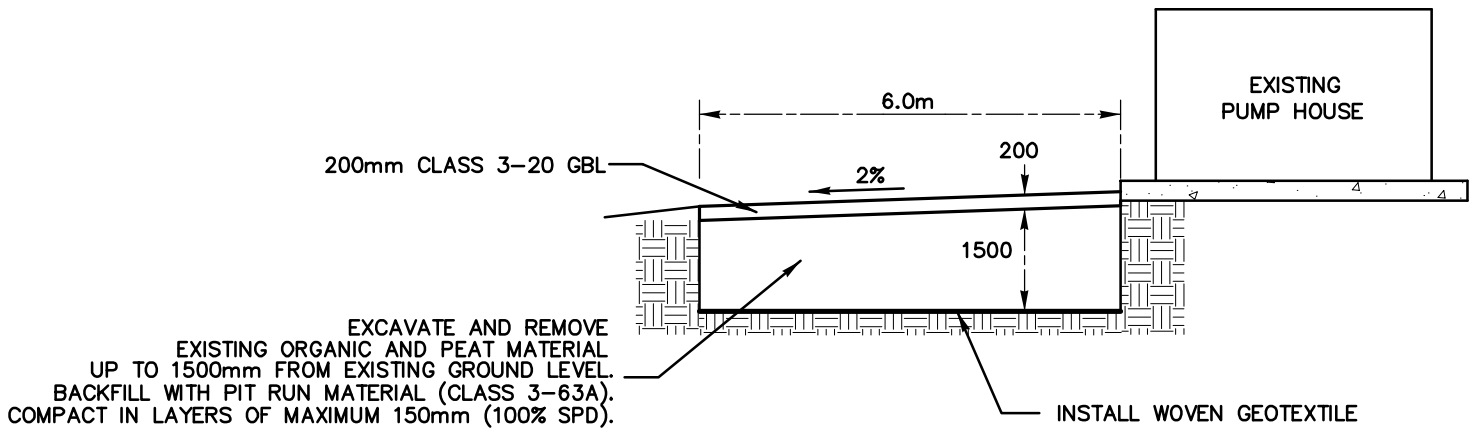


# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>WOODEN STAIRS AND SUPPORT STRUCTURE</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-60</b>
Date: 2009-04-16	Drawn:	Scale NTS		



TYPICAL ROAD CROSS SECTION A-A'


NOTE:

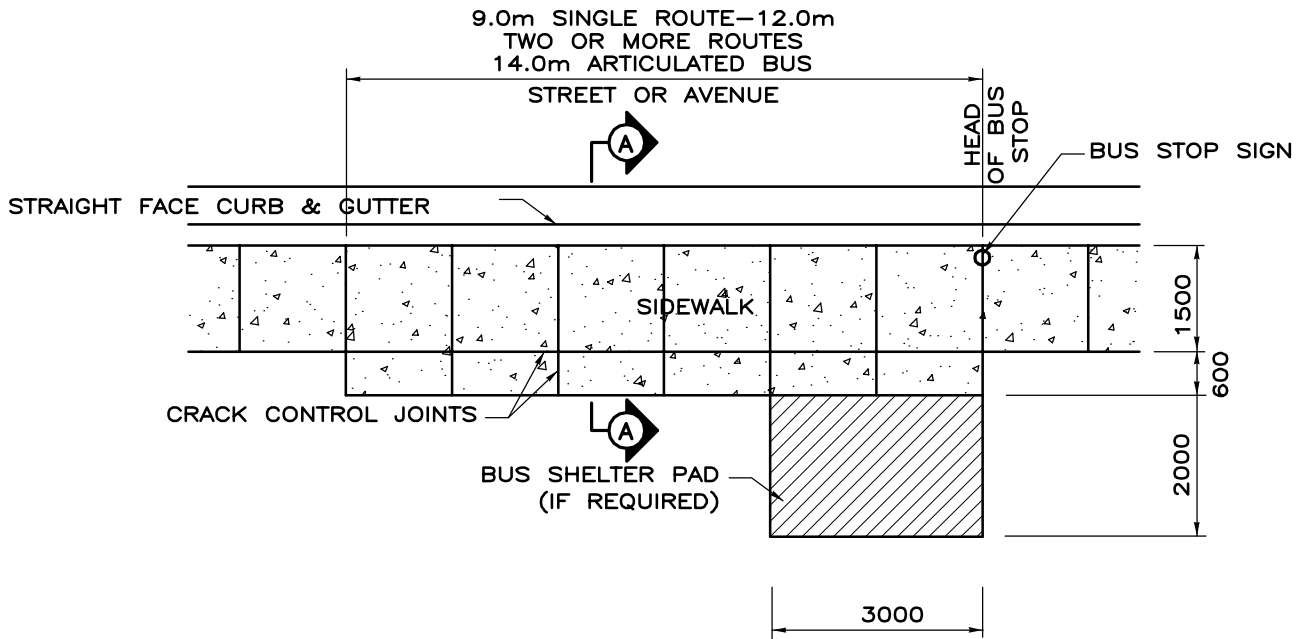
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards

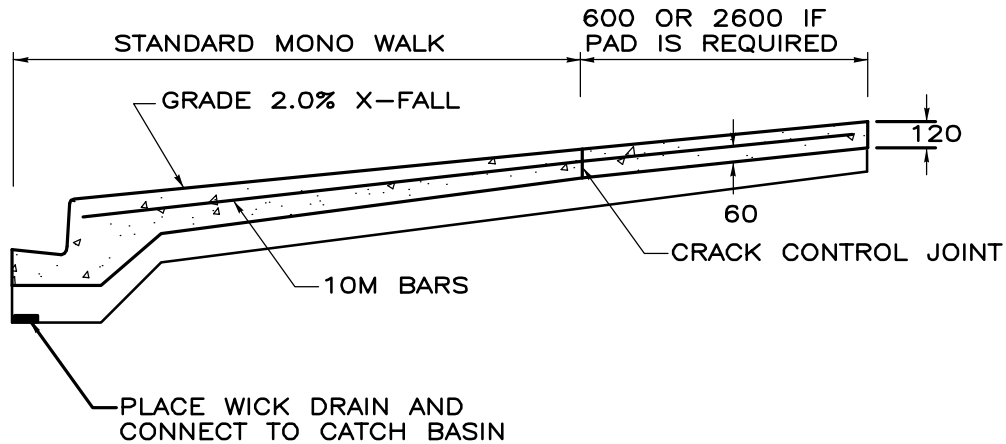


Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	DAPP ROAD CROSSING DETAIL	
Rev.				
Rev.			File No.: GP6033068	Design:
Date: 2009-04-16	Drawn:	Scale NTS		



**PLAN VIEW**

N.T.S



**SECTION A-A**

N.T.S


**NOTES:**

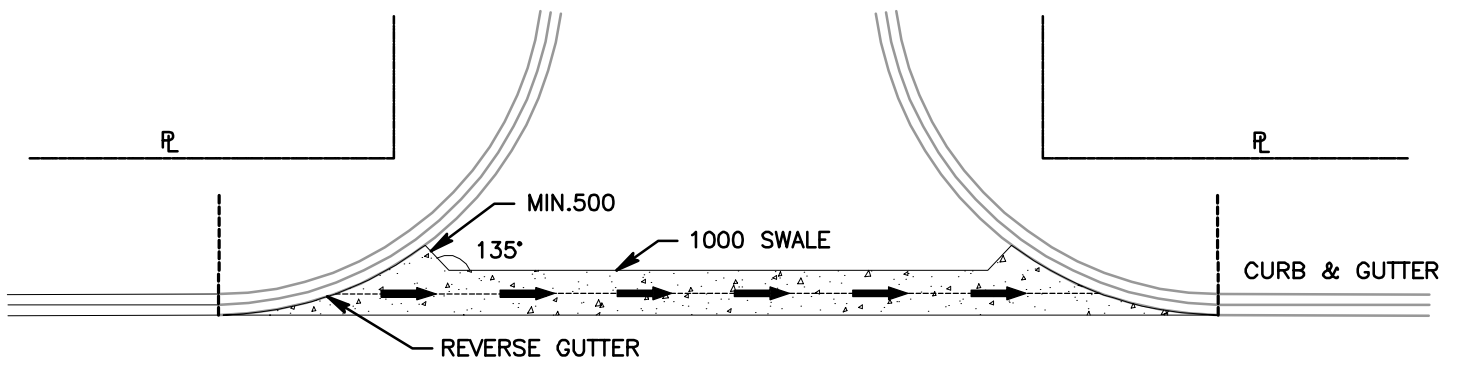
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards

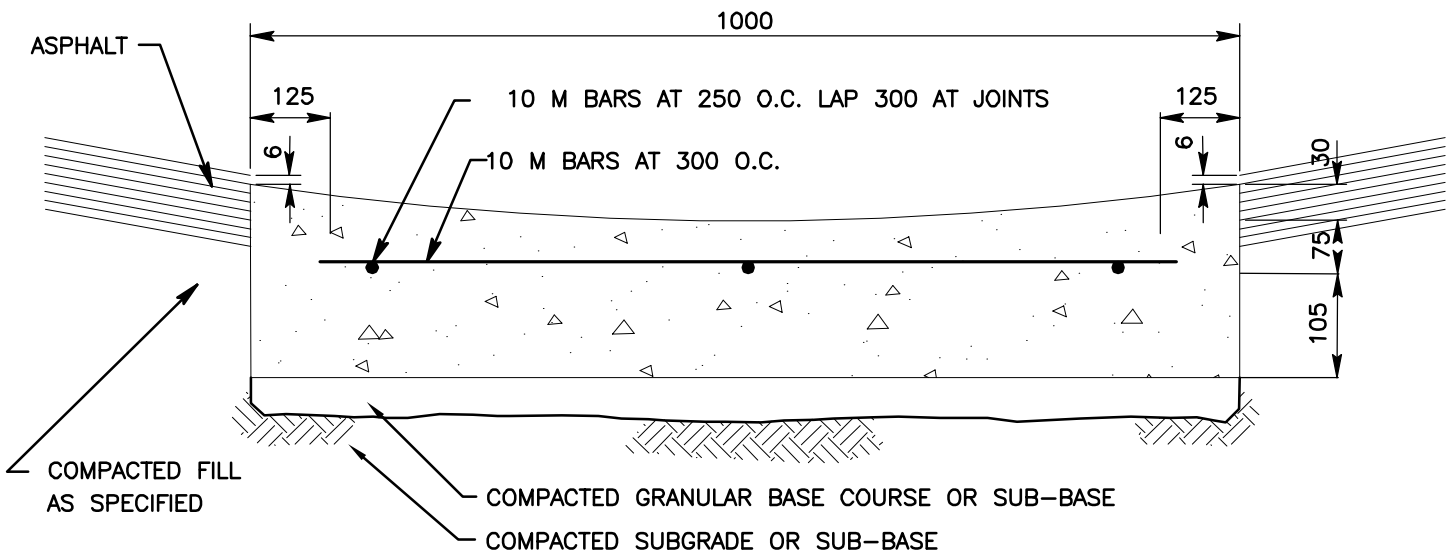


Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>BUS STOP PAD          ROLLED MOMO GUTTER AND WALK</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-62</b>
Date: 2009-04-16	Drawn:	Scale NTS		



## PLAN

N.T.S



## SECTION

N.T.S


### NOTES:

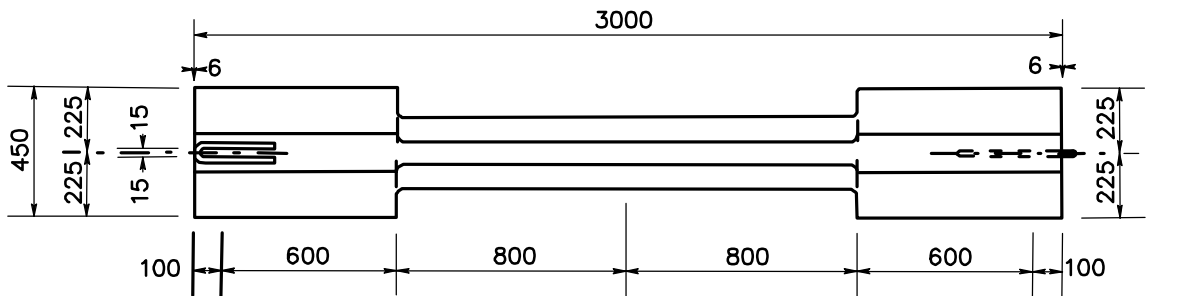
1. CONTRACTION JOINTS SPACED AT 3m INTERVAL.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

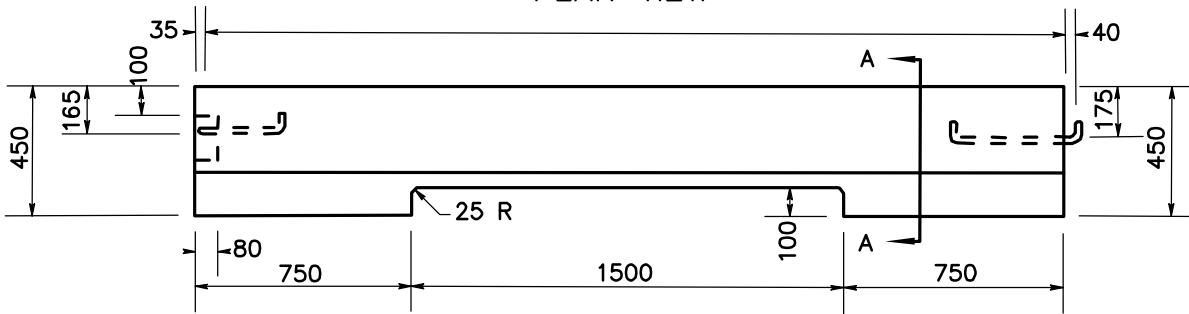
General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>1000m CONCRETE SWALE          PLAN &amp; SECTION</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-63</b>
Date: 2009-04-16	Drawn:	Scale NTS		

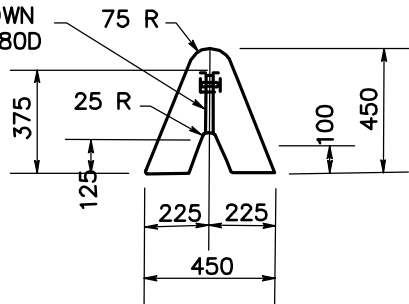


PLAN VIEW

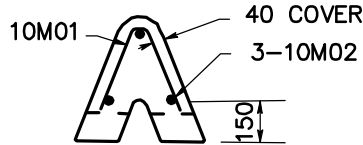


ELEVATION

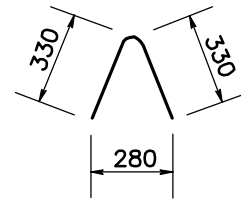
BLOCK OUT  
AS SHOWN  
30W X 80D



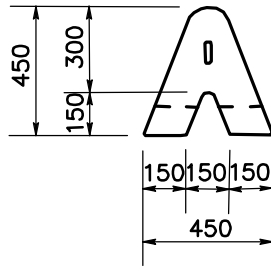
LEFT END VIEW



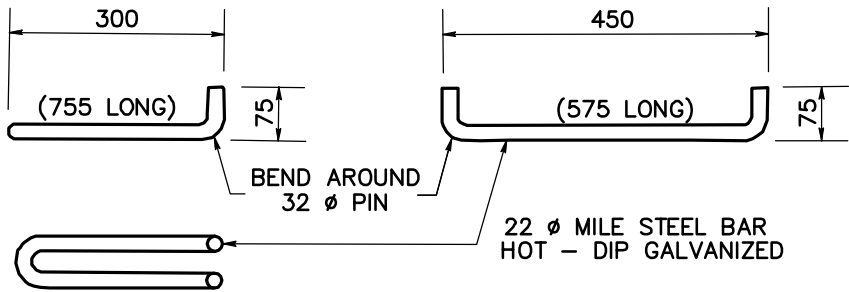
SECTION A-A



10M01



RIGHT END VIEW



STEEL BAR DETAIL  
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. REFER TO STANDARD FIGURE G-65 (END UNITS).

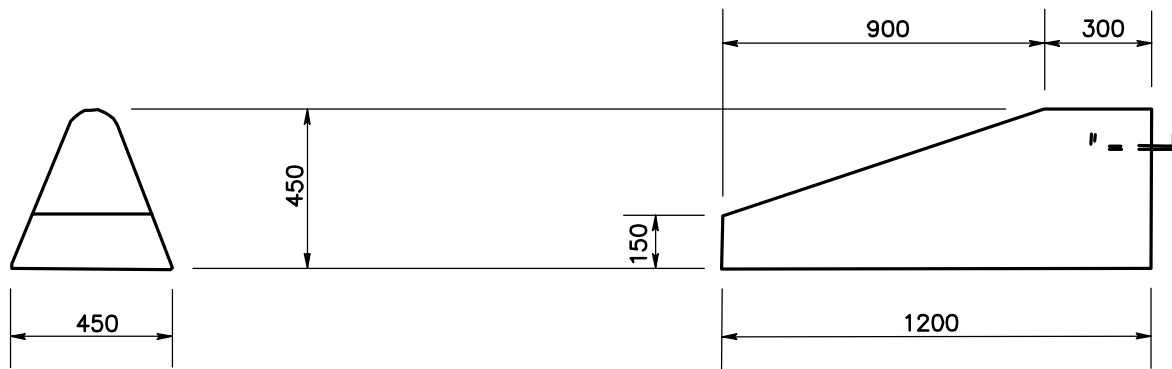
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



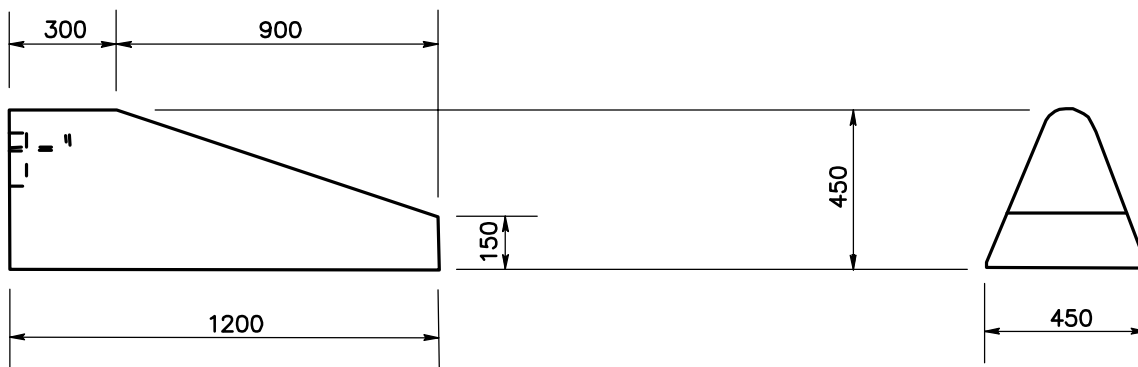
Rev.	 <b>Stewart Weir</b> #99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>MINI BARRIER DETAIL</b>		
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-64
Date: 2009-04-16	Drawn:	Scale NTS		





LEFT END VIEW

ELEVATION



ELEVATION

RIGHT END VIEW


NOTES:

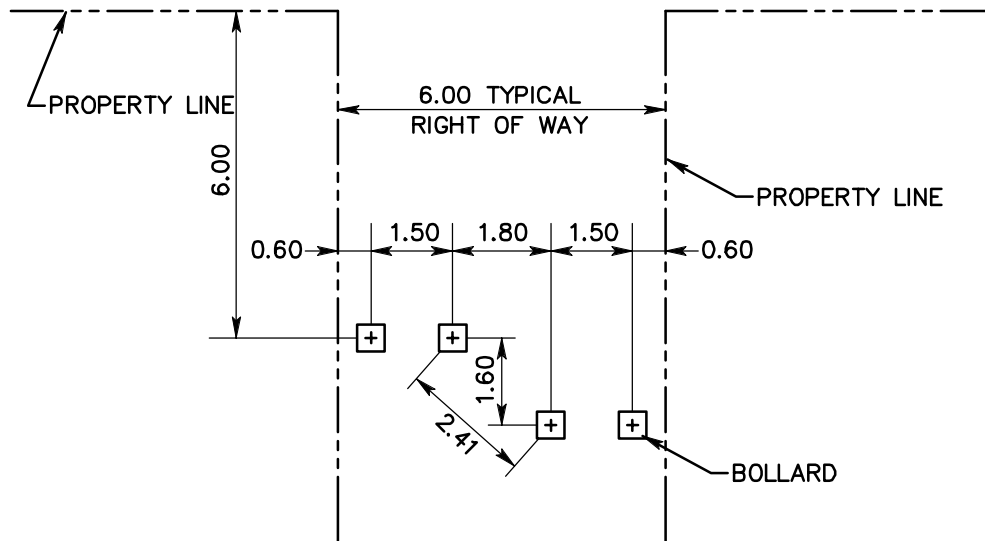
1. FOR STEEL DETAIL SEE STANDARD FIGURE G-64.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
3. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards

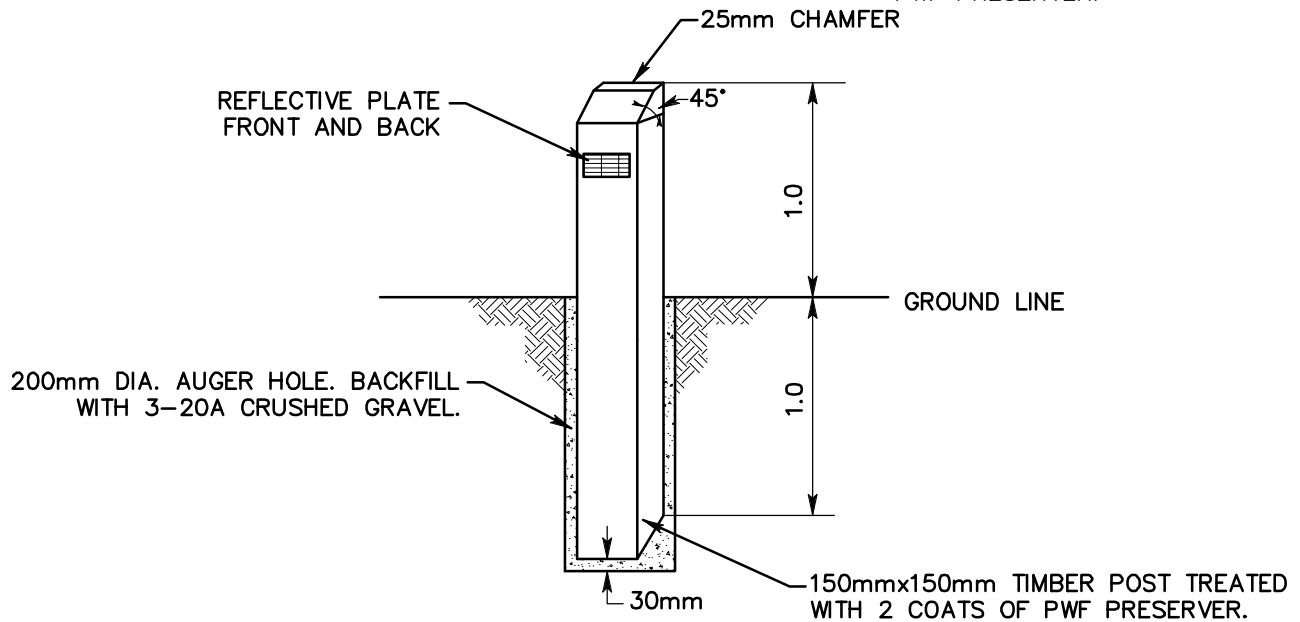


Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	MINI BARRIER END UNITS DETAIL	
Rev.				
Rev.			File No.: GP6033068	Design:
Date: 2009-04-16	Drawn:	Scale NTS		



**TYPICAL BOLLARD LAYOUT**

HAND TREAT ALL CUTS WITH PWF PRESERVER.



**BOLLARD DETAIL**

**NOTES:**

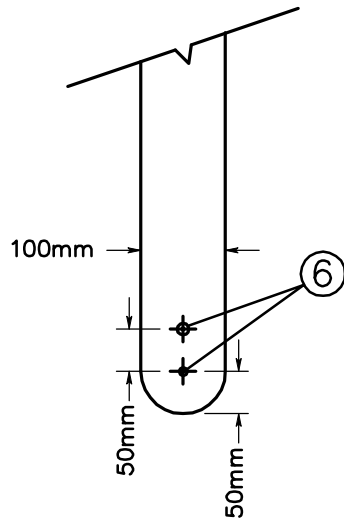
1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

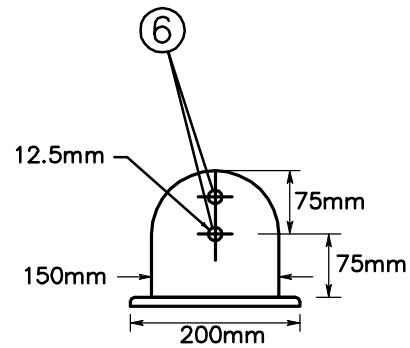
General Municipal Servicing Standards



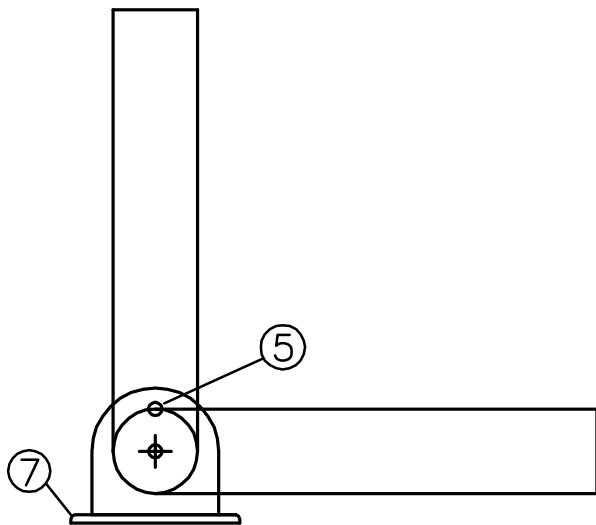
Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>TYPICAL BOLLARD LAYOUT AND INSTALLATION</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-66</b>
Date: 2009-04-16	Drawn:	Scale NTS		



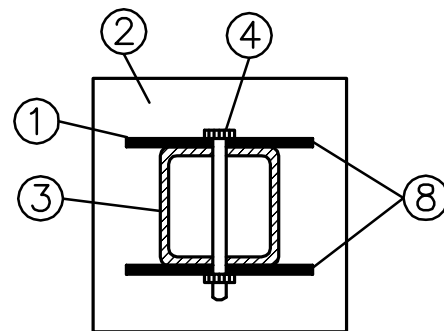
BOLLARD SECTION



BASE DETAIL



SIDE ELEVATION



BASE CROSS SECTION


**NOTES:**

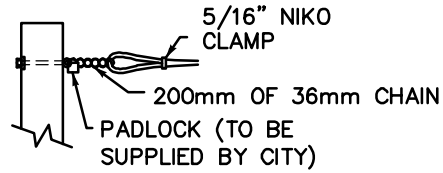
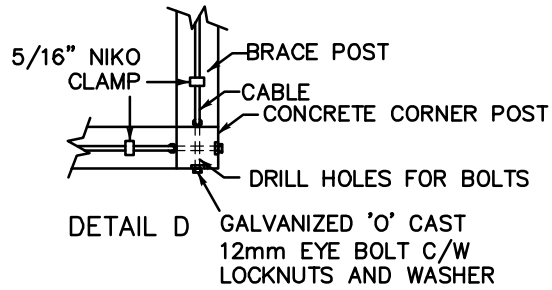
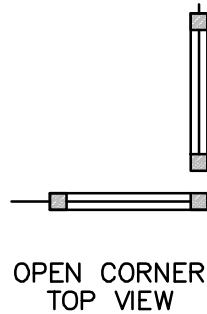
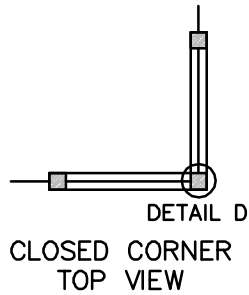
1. 12mm STEEL FLANGES WELDED TO BASE PLATE.
2. 200mm x 200mm x 12mm STEEL BASE PLATE c/w 4-19mm x 250mm STEEL ANCHOR OR TUBE WELDED TO BOTTOM.
3. 100mm x 100mm STEEL BOLLARD c/w TOP PLATE. 760mm IN LENGTH (YELLOW IN COLOR).
4. 12mm x 150mm BOLT c/w WASHERS AND NYLON LOCKING NUT.
5. 20mm x 150mm CLEVIS PIN.
6. HOLES DRILLED AS SHOWN.
7. CHAMFER TOP EDGES OF BASE PLATE.
8. TACK WELD.
9. SPECIFIC ANCHORING TO BE PRESCRIBED BY ENGINEER.
10. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

# TOWN OF PEACE RIVER

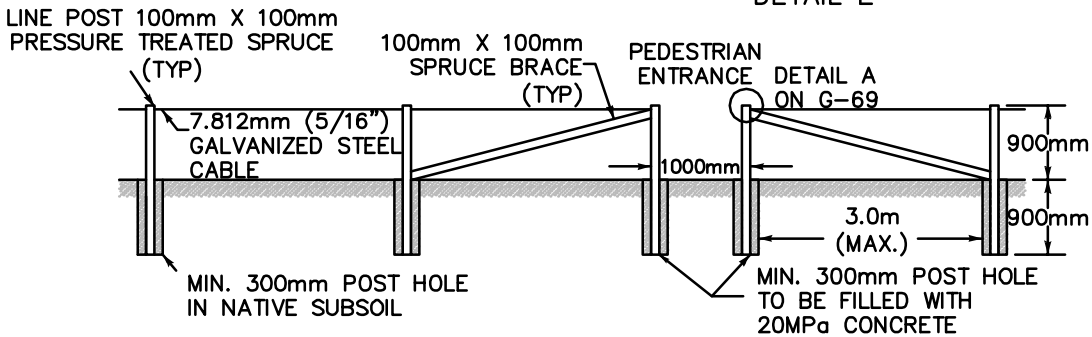
General Municipal Servicing Standards



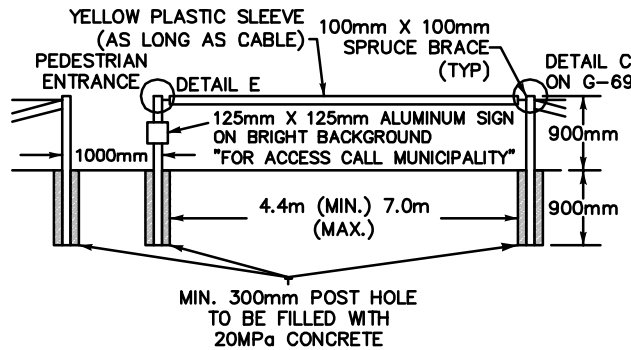
Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>COLLAPSIBLE BOLLARD</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-67</b>
Date: 2009-04-16	Drawn:	Scale NTS		



DETAIL E



TYPICAL LONGITUDINAL SECTION C/W PEDESTRIAN ENTRANCE



TYPICAL VEHICLE ENTRANCE GATE


NOTES:

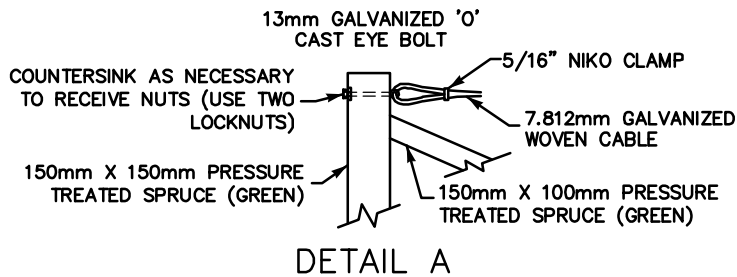
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

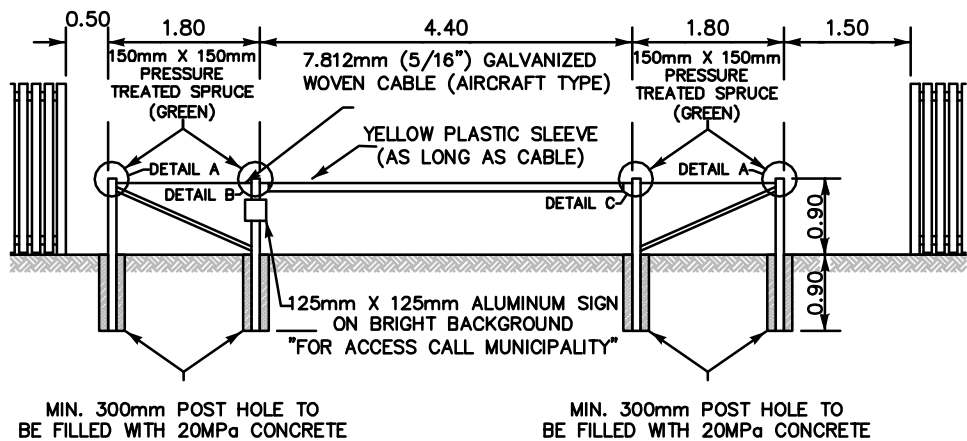
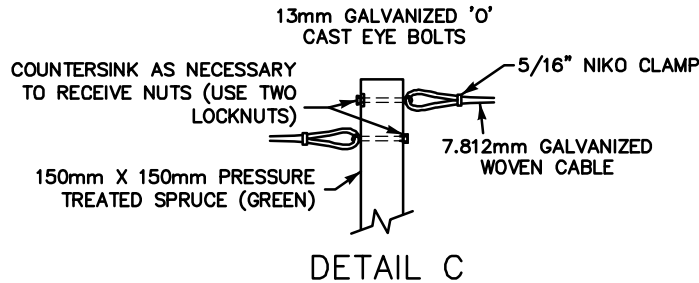
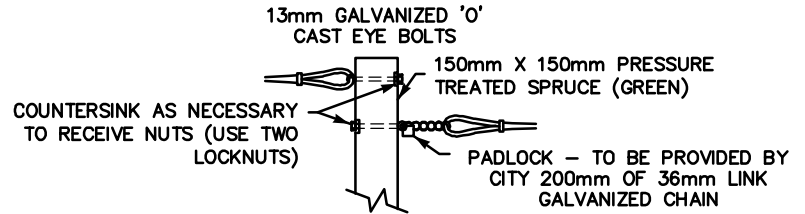
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<h2>POST &amp; CABLE DETAIL</h2>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <h3>G-68</h3>
Date: 2009-04-16	Drawn: CP	Scale: NTS		



DETAIL B



TYPICAL 10.0m UTILITY LOT BARRIER DETAIL

NOTES:

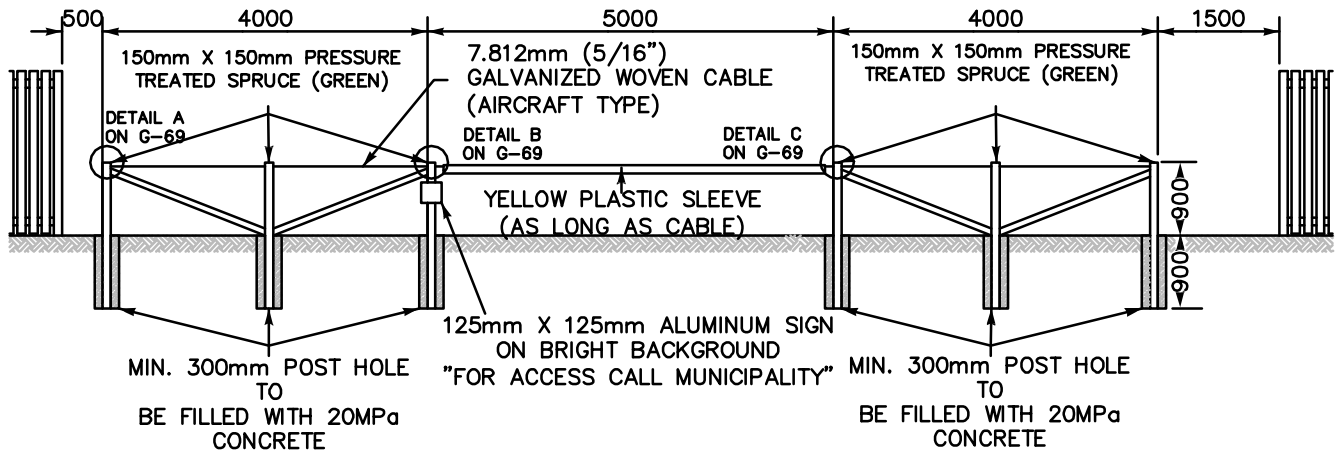
1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.
3. 'O' BOLTS AND CABLE CLAMPS TO BE GALVANIZED EQUIVALENT TO PREVENT CORROSION.
4. DOUBLE LOCKNUTS ON 'O' BOLTS AND LOCKNUTS ON CABLE.
5. BARRIER DETAILS ARE TYPICAL AND MAY VARY SLIGHTLY DEPENDING ON ACTUAL FIELD DIMENSIONS.
6. PADLOCK TO BE SUPPLIED AT COST BY THE MUNICIPALITY.
7. SIGN TO BE INSTALLED.
8. FOR ACCESS CALL MUNICIPALITY.

# TOWN OF PEACE RIVER

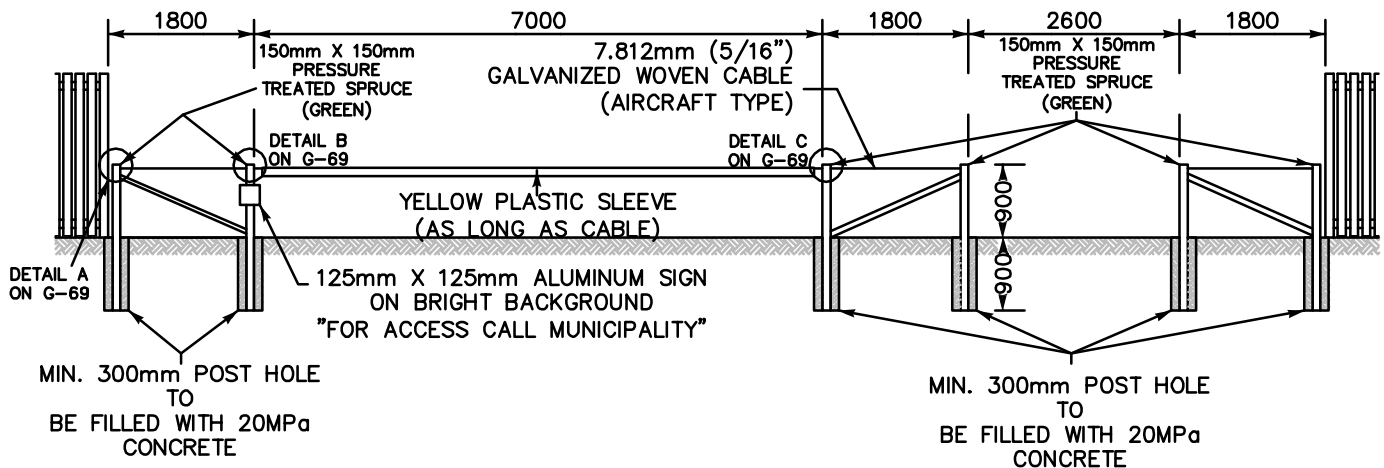
General Municipal Servicing Standards



Rev.		#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	UTILITY LOT BARRIER (10 METRE)	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-69
Date: 2009-04-16	Drawn: CP	Scale NTS		



TYPICAL 15.0m UTILITY LOT BARRIER DETAIL



TYPICAL 15.0m UTILITY LOT BARRIER FOR CENTER WALKWAYS


NOTES:

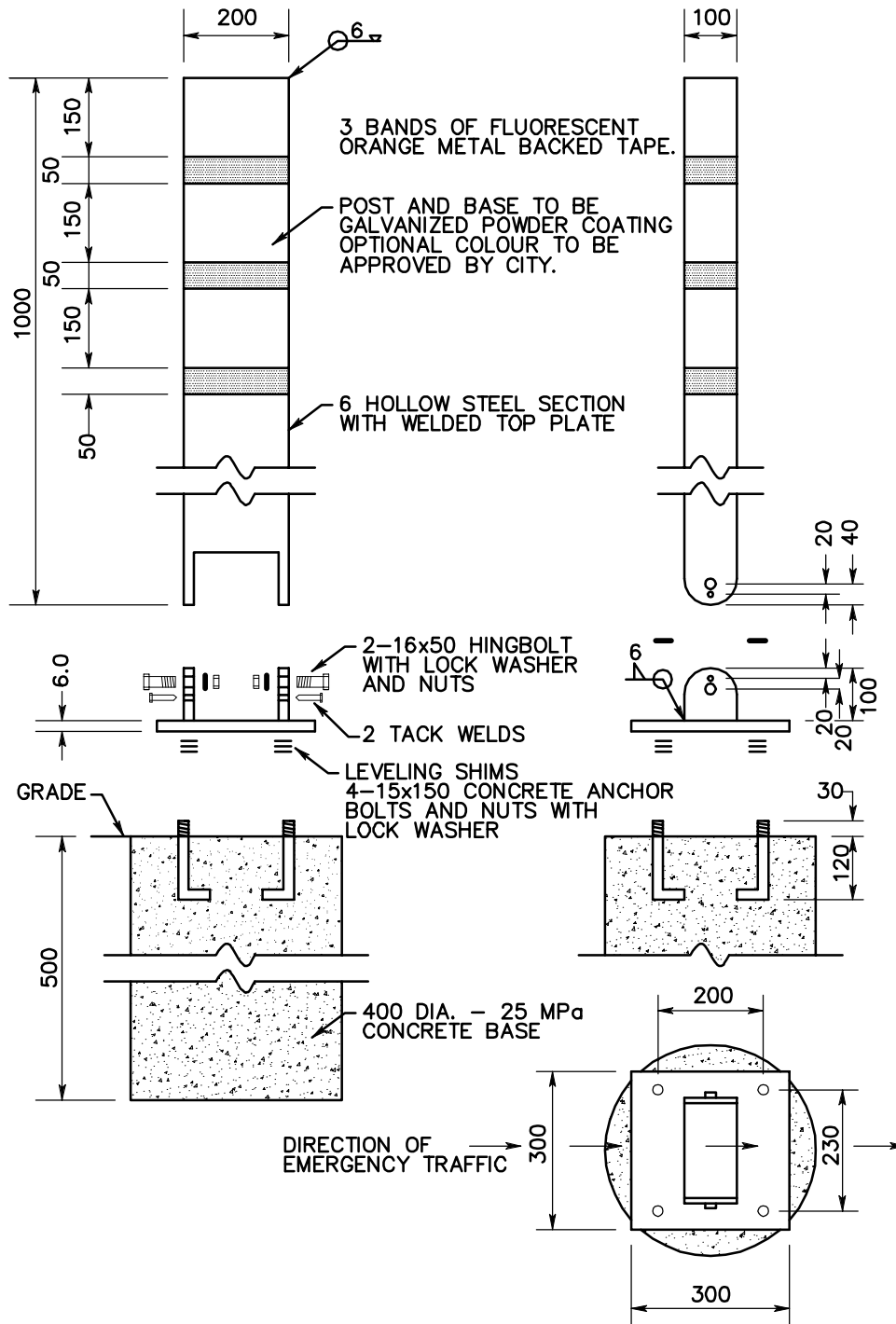
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. PROPORTIONING AND PRODUCING QUALITY CONCRETE AS WELL AS ACCEPTANCE TESTS FOR THE CONSTITUENT MATERIALS ARE SPECIFIED IN CSA STANDARDS A23.1 AND A23.4 FOR CAST-IN-PLACE AND PRECAST CONCRETE RESPECTIVELY.

# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	UTILITY LOT BARRIER (15 METRES)	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure G-70
Date: 2009-04-16	Drawn: CP	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.	<b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	<b>EMERGENCY KNOCK-DOWN POST (RETROFIT)</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-71</b>
Date: 2009-04-16	Drawn: JAD	Scale: NTS		

BEVELLED HOLE TO ACCOMMODATE WELDING ROD INTO FLANGE. (GRIND SMOOTH)

BOLLARD ARM

60mm DIA. HOLE DRILLED TO FIT STEEL SHAFT AND ALLOWING SHAFT TO PIVOT

50mm DIA. COLD ROLLED ROUND SOLID STEEL

-99.5 x 99.5 SQUARE STEEL PLATE 50mm DIA. WELDED INSIDE VERTICAL POST TO ACT AS A STABILIZER -TO LARGE A HOLE WILL ALLOW ARM TO ROCK

12.5mm DIA. OPENING FOR STEEL PIN

BLIND FLANGES 23 THICK

OPENING FOR LOCKING PIN

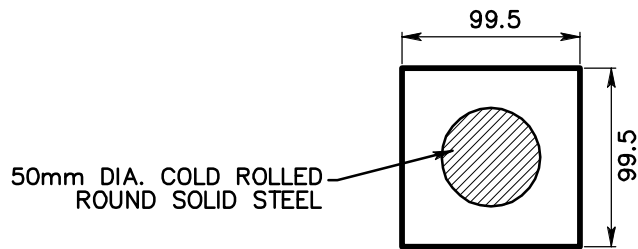
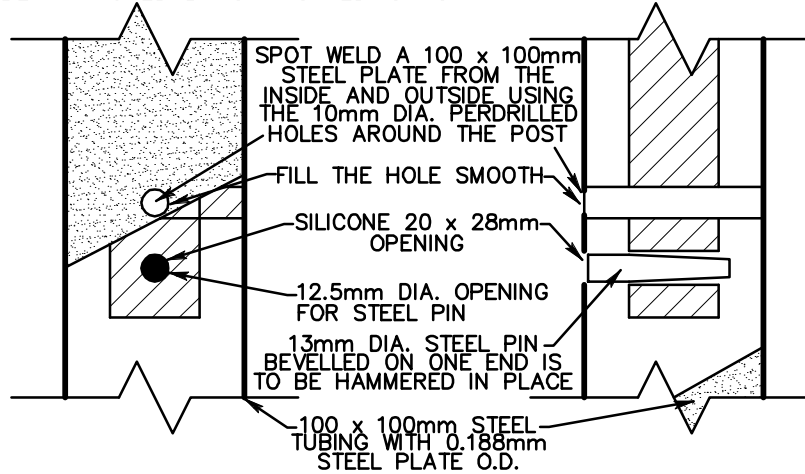
1/4" QUICK LINK WELDED TO TUBING WITH LOCKING CHAINS ATTACHED.

WELD CHAIN TO LOCKING PIN AND SHACKLE CHAIN TO LOCK.

LOCK

20mm DIA. HARDENED TEMPERED STEEL GUARD LOCK. LOCKING PIN WITH 14mm DIA. HOLE TO ACCOMMODATE PADLOCK. CHAIN SHOULD BE ZINC COATED. DECK CHAIN WITH 30mm LONG LINKS AND 4mm THICKNESS.

\* NOTE: ALL METAL TO BE GALVANIZED POWDER COATING OPTIONAL. COLOUR TO BE APPROVED BY CITY OF EDMONTON




NOTE:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

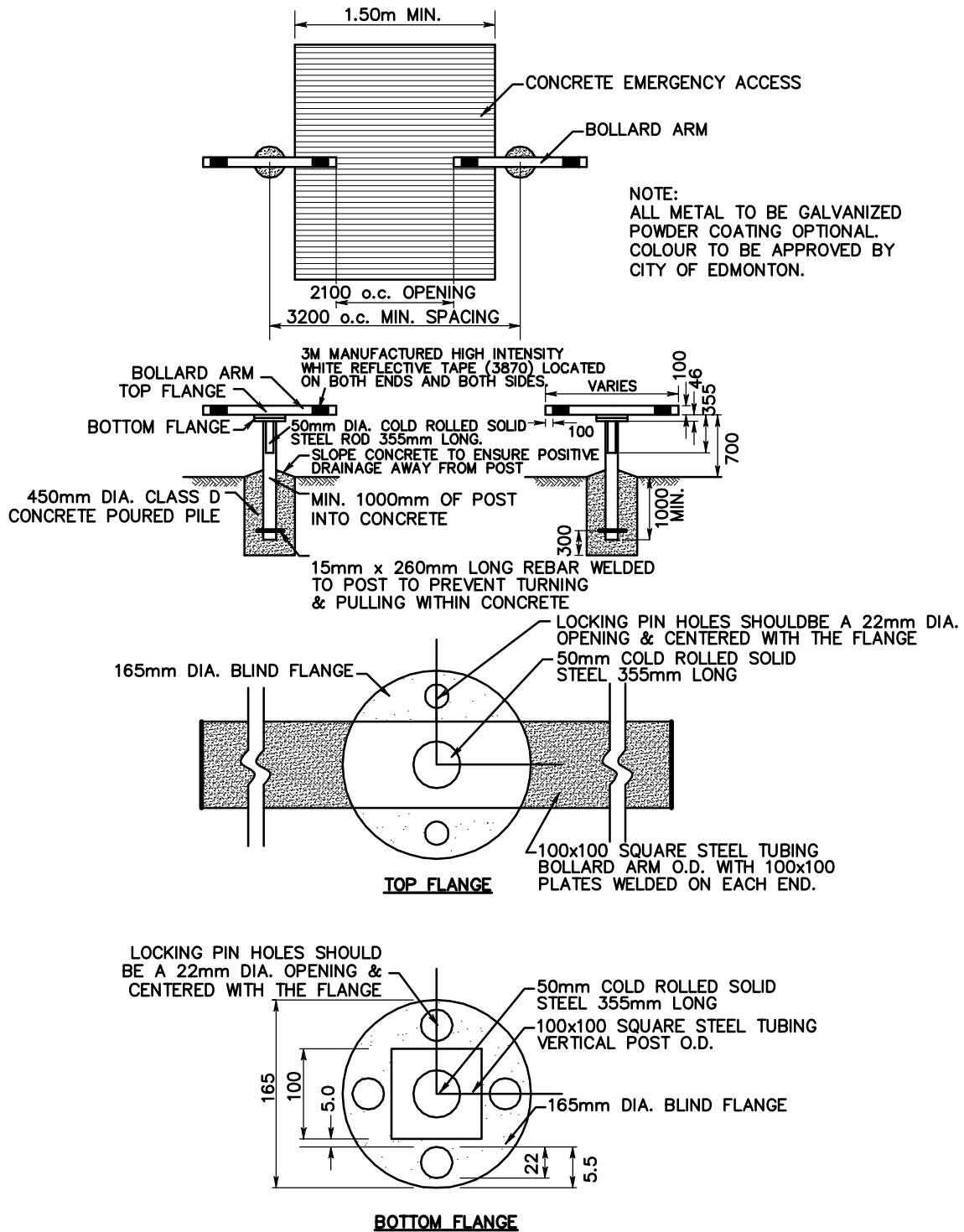
# TOWN OF PEACE RIVER

General Municipal Servicing Standards



Rev.	 <b>Stewart Weir</b>	#99, 11039 78th Avenue Grande Prairie, Alberta 780.814.5880	T-BOLLARD ASSEMBLY DETAIL	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure
Date: 2009-04-16	Drawn: JAD	Scale NTS		G-72





**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	<b>T-BOLLARD IN EMERGENCY ACCESS</b>	
Rev.				
Rev.				
Rev.	File No.: GP6033068	Design:	Approved:	Figure <b>G-73</b>
Date: 2009-04-16	Drawn: JAD	Scale NTS		