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R-1	Alternate Pavement Structures	July/10
R-2	Typical Cross Sections for Asphaltic Concrete Pavements	July/10
R-2A	Typical Cross Sections for Granular Base Pavement Structures	July/10
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R-10	Combined Concrete Walk, Curb and Gutter Crossing	Jan/11
R-10A	Curb and Gutter Crossing with Boulevard	July/10
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R-11B	Box-out for Side Inlet Catch Basins (Barrier Curb)	Jan/11
R-11C	Box-out for Side Inlet Catch Basins (Rolled Curb)	Jan/11
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R-12	Concrete Pavement Barrier Curb (Integral)	July/10
R-12A	Concrete Pavement Lip Curb (Integral)	July/10
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R-14C	Concrete Pavement Joint Detail	July/10
R-15	Precast Concrete Curb	July/10
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R-16	Chain Link Fence Type "A"	July/10
R-16A	Chain Link Fence Type "A" - Banding Details	July/10
R-17A	Chain Link Fence Type "B"	July/10
R-17B	Gate Detail Type "B"	July/10
R-18	Rate of Evaporation Nomograph	July/10
R-19	Hoarding for Walkway	July/10
R-20	W-Beam Elements and End Sections	July/10
R-21	Culvert	Jan/11
R-21B	Installation of Culvert Using Granular Backfill	Jan/11
R-21C	Installation of Culvert Using Earth Backfill	Jan/11

# PAVEMENT DESIGN

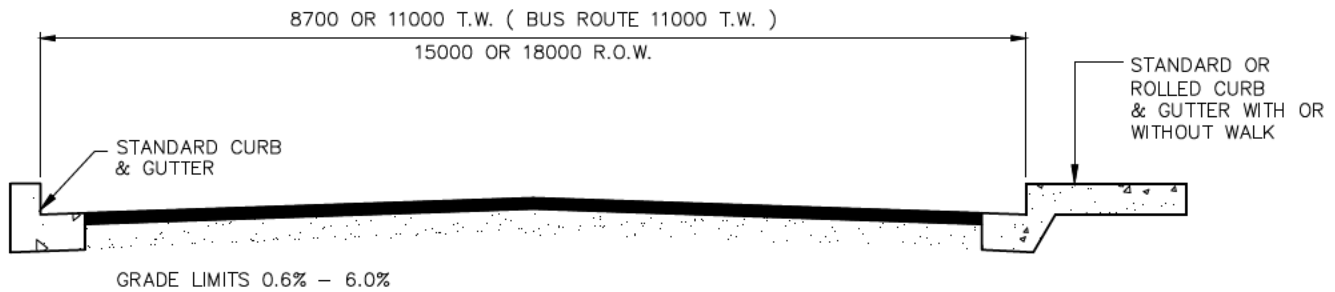
CLASS OF STREET	* FULL DEPTH ASPHALT	* SOIL CEMENT BASE	* SAND/ASPHALT BASE	GRANULAR BASE	PORTLAND CEMENT CONCRETE PAVEMENT
1) LOCAL	150 A.C.	50 A.C. 140 BASE	50 A.C. 140 BASE	50 A.C. 150 BASE 150 SUB BASE 150 DRAINAGE SAND	150 P.C.C.(6") 50 BASE
2) COLLECTOR	225 A.C.	85 A.C. 175 BASE	85 A.C. 200 BASE	85 A.C. 170 BASE 200 SUB BASE 150 DRAINAGE SAND	165 P.C.C.(6.5") 50 BASE
3) BUS ROUTE (RESIDENTIAL)	225 A.C.	85 A.C. 175 BASE	85 A.C. 200 BASE	85 A.C. 170 BASE 200 SUB BASE 150 DRAINAGE SAND	165 P.C.C.(6.5") 50 BASE
4) BUS ROUTE (CORE)	240 A.C.	95 A.C. 175 BASE	95 A.C. 205 BASE	95 A.C. 170 BASE 230 SUB BASE 150 DRAINAGE SAND	175 P.C.C.(7") 75 BASE
5) INDUSTRIAL	240 A.C.	95 A.C. 175 BASE	95 A.C. 205 BASE	95 A.C. 170 BASE 230 SUB BASE 150 DRAINAGE SAND	190 P.C.C.(7.5") 75 BASE
6) ARTERIAL 5% COMMERCIAL	250 A.C.	100 A.C. 185 BASE	100 A.C. 220 BASE	100 A.C. 180 BASE 230 SUB BASE 150 DRAINAGE SAND	200 P.C.C.(8") 75 BASE
7) ARTERIAL 10% COMMERCIAL	265 A.C.	115 A.C. 190 BASE	115 A.C. 220 BASE	115 A.C. 180 BASE 250 SUB BASE 150 DRAINAGE SAND	225 P.C.C.(9") 75 BASE

\* PAVEMENT STRUCTURES – CONSISTING OF FULL DEPTH ASPHALT, SOIL CEMENT BASE OR SAND/ASPHALT BASE SHALL BE PLACED ON A LIME MODIFIED SUBGRADE 450 THICK.

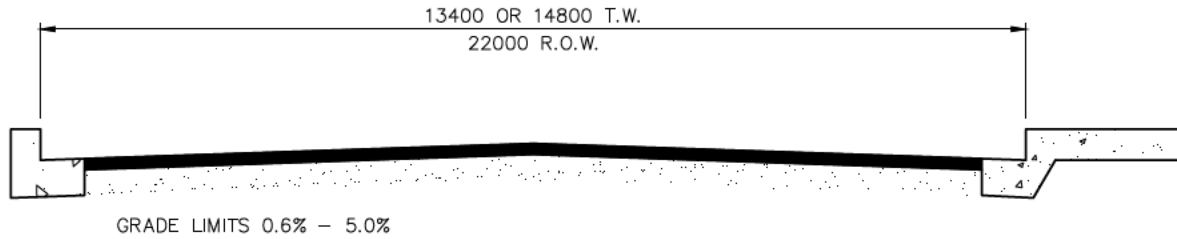
## NOTES

1. THE DESIGN THICKNESS INDICATED ABOVE REPRESENTS THE MINIMUM STRUCTURE REQUIRED.
2. A PAVEMENT DESIGN SHALL BE UNDERTAKEN WHERE WARRANTED.
3. CONCRETE PAVEMENT THICKNESS ARE INTENDED TO BE CONVENIENT INCREMENTS AVAILABLE IN THE INDUSTRY. IMPERIAL EQUIVALENTS ARE SHOWN IN PARENTHESES
4. PERFORATED DRAINAGE PIPE, AS SHOWN ON DRAWING No. R-2A, IS REQUIRED WITH GRANULAR BASE STRUCTURES
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

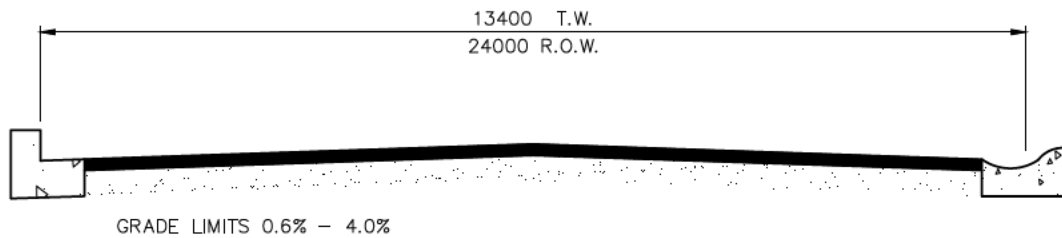
Date	Revisions	By	CONSTRUCTION STANDARDS		
JAN/01	CEMENT DESIGNATION	J.H.	<b>Alternate Pavement Structures</b>		
JAN/03	TITLE BLOCK	MLG			
DEC/06	COLLECTOR STRUCTURE	J.H.			
JUL/10	TITLE BLOCK	JJA			
			Designed By:		Approved: <b>Stella Madsen</b>
			Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-1</b>
			Digital File: <b>STDR-1.dwg</b>		



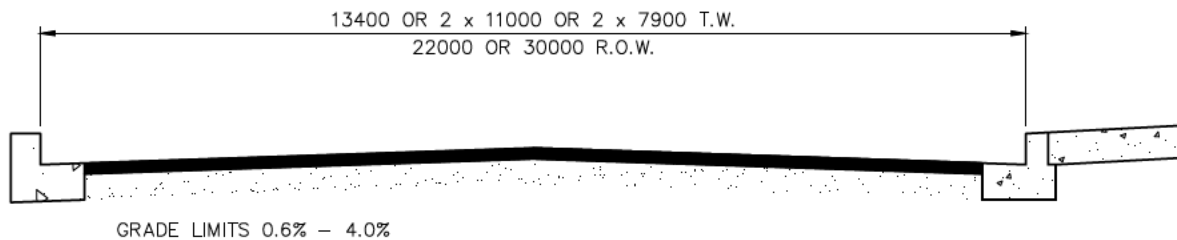
**CROSS SECTION FOR LOCAL STREET**



**CROSS SECTION FOR COLLECTOR STREET**



**CROSS SECTION FOR INDUSTRIAL STREET**



**CROSS SECTION FOR ARTERIAL STREET**

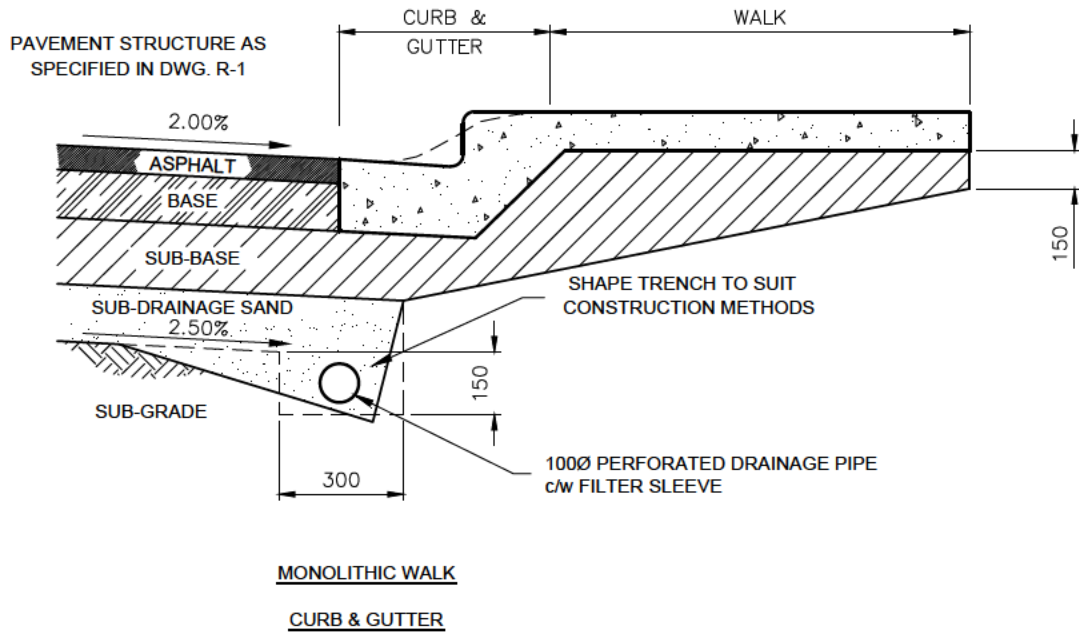
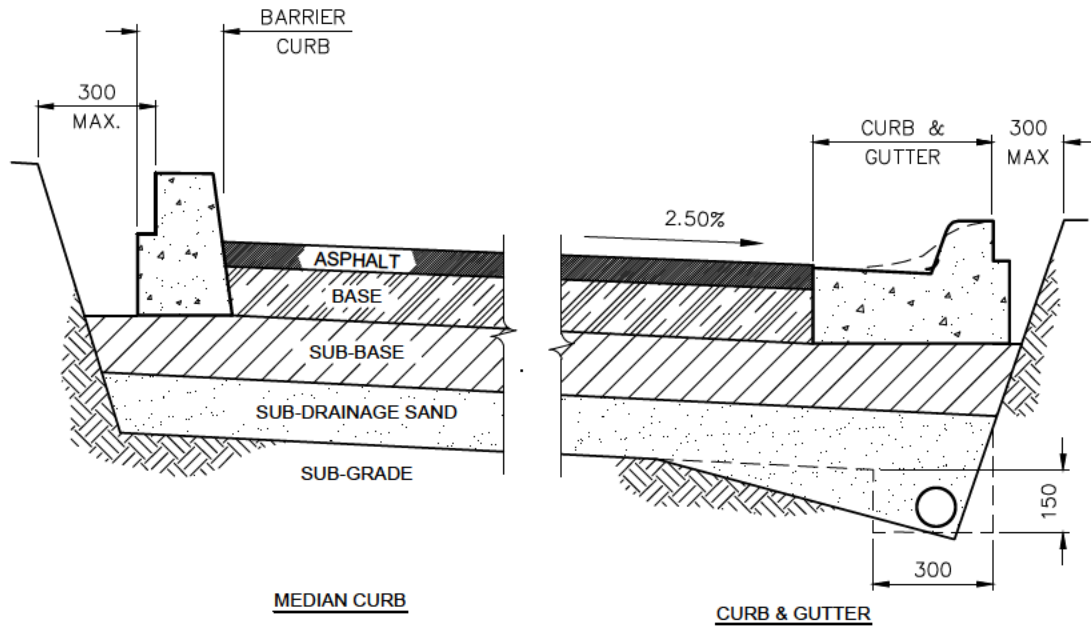
**NOTES:**

1. ASPHALT SHALL BE PLACED TO HEIGHT OF 10 ABOVE THE LIP OF THE GUTTER, EXCEPT ON THE HIGH SIDE OF SUPER ELEVATED CURVE WHERE IT SHALL BE FLUSH WITH THE LIP OF THE GUTTER
2. ALTERNATE PAVEMENT STRUCTURES ARE AS DETAILED ON DWG. NO R-1
3. MINIMUM CROSS SLOPE 2.5%
4. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Typical Cross Sections for Asphaltic Concrete Pavements</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>Jan/98</b>	Scale: <b>NTS</b>	<b>R-2</b>
Digital File: <b>STDR-2.dwg</b>		



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	GRANULAR DEPTH AT BOW	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

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CONSTRUCTION STANDARDS

**Typical Cross Sections for Granular Base Pavement Structures**

Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/98** Scale: **NTS** **R-2A**

Digital File: **STDR-2A.dwg**

EQUIVALENT TRAFFIC WIDTH	FOR INTERNAL CURB & GUTTER	FOR SEPARATE CURB & GUTTER
8.7m		
11.0m	NOT APPLICABLE	
13.4m		
14.8m		
2 x 7.9m		
2 x 11.7m		

## CROSS SECTIONS

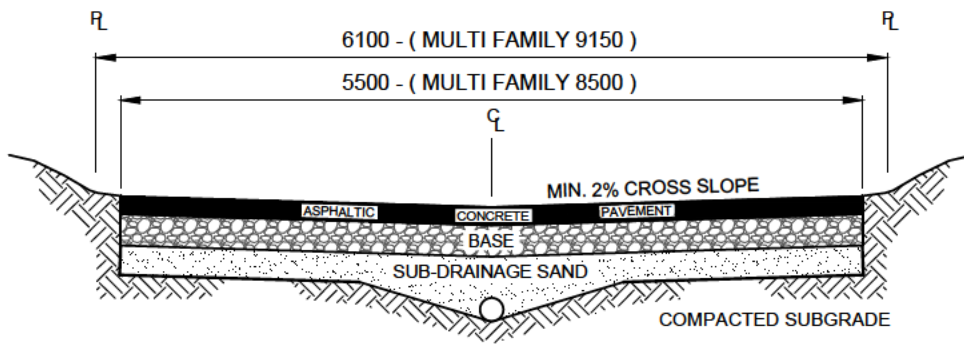
### NOTES:

- CROSS SECTIONS GIVEN ABOVE ARE BASED ON ESTABLISHED CONSTRUCTION PRACTICES. VARIATIONS IN THE WIDTHS OF POURS THAT ACHIEVE THE DESIRED TRAFFIC WIDTHS ARE SUBJECT TO THE APPROVAL OF THE DIRECTOR OF MUNICIPAL ENGINEERING.
- MINIMUM CROSS SLOPE 2.5%
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED. DIMENSIONS IN PARENTHESIS ARE IN IMPERIAL UNITS.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



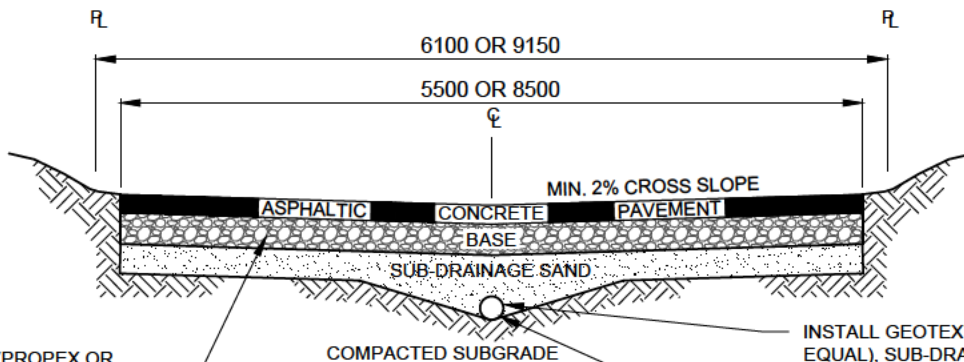
CONSTRUCTION STANDARDS		
<b>Typical Cross Sections for Portland Cement Concrete Pavements</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-2B</b>
Digital File: <b>STDR-2B.dwg</b>		



**PAVEMENT STRUCTURES**

50 ASPHALTIC CONCRETE PAVEMENT	OR	50 ASPHALTIC CONCRETE PAVEMENT	OR	110 FULL DEPTH ASPHALT
90 SAND ASPHALT BASE		250 GRANULAR BASE COURSE		150 SUB-DRAINAGE SAND
150 SUB-DRAINAGE SAND		150 SUB-DRAINAGE SAND		

**RESIDENTIAL ZONE**



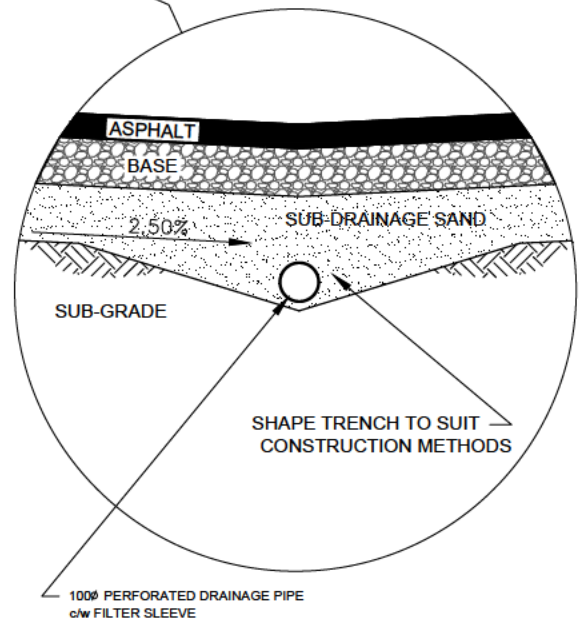
INSTALL GEOTEXTILE (PROPEX OR APPROVED EQUAL) WHERE GROUND CONDITIONS WARRANT INSTALLATION

COMPACTED SUBGRADE

**PAVEMENT STRUCTURES**

50 ASPHALTIC CONCRETE PAVEMENT
130 SAND ASPHALT BASE
150 SUB-DRAINAGE SAND
OR
40 ASPHALTIC CONCRETE PAVEMENT
140 SOIL CEMENT BASE
150 SUB-DRAINAGE SAND
OR
50 ASPHALTIC CONCRETE PAVEMENT
350 GRANULAR BASE COURSE
150 SUB-DRAINAGE SAND
OR
140 FULL DEPTH ASPHALT

INSTALL GEOTEXTILE (PROPEX OR APPROVED EQUAL), SUB-DRAINAGE SAND AND PERFORATED DRAINAGE PIPE. CONNECT TO CATCH BASIN WHERE THEY EXIST IN ALLEYS.



**BUSINESS OR INDUSTRIAL ZONE**

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. IF PAVED PARKING LOT ABUTTS ALLEY THEN EXTEND ALLEY PAVEMENT TO PROPERTY LINE .
3. GRADE LIMITS 0.6% - 6.0%

Date	Revisions	By
JAN/02	GRANULAR BASE COURSE	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/06	SUB DRAINAGE DETAIL	J.H.
DEC/08	SUB DRAINAGE DETAIL	PV
JUL/10	TITLE BLOCK	JJA



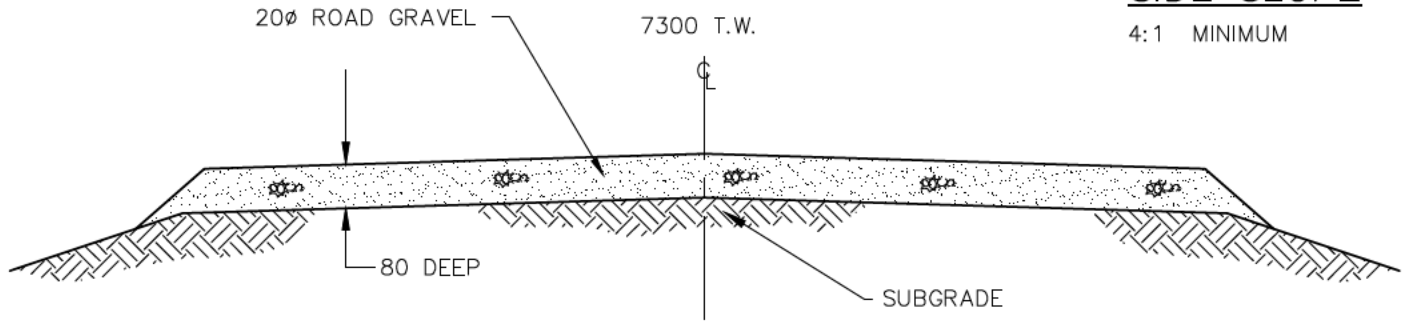
CONSTRUCTION STANDARDS		
Alley Pavement Structures		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-2C
Digital File: STDR-2C.dwg		

CROWN

3% CROSS SLOPE

SIDE SLOPE

4:1 MINIMUM



TYPICAL CROSS SECTION

NOTE:

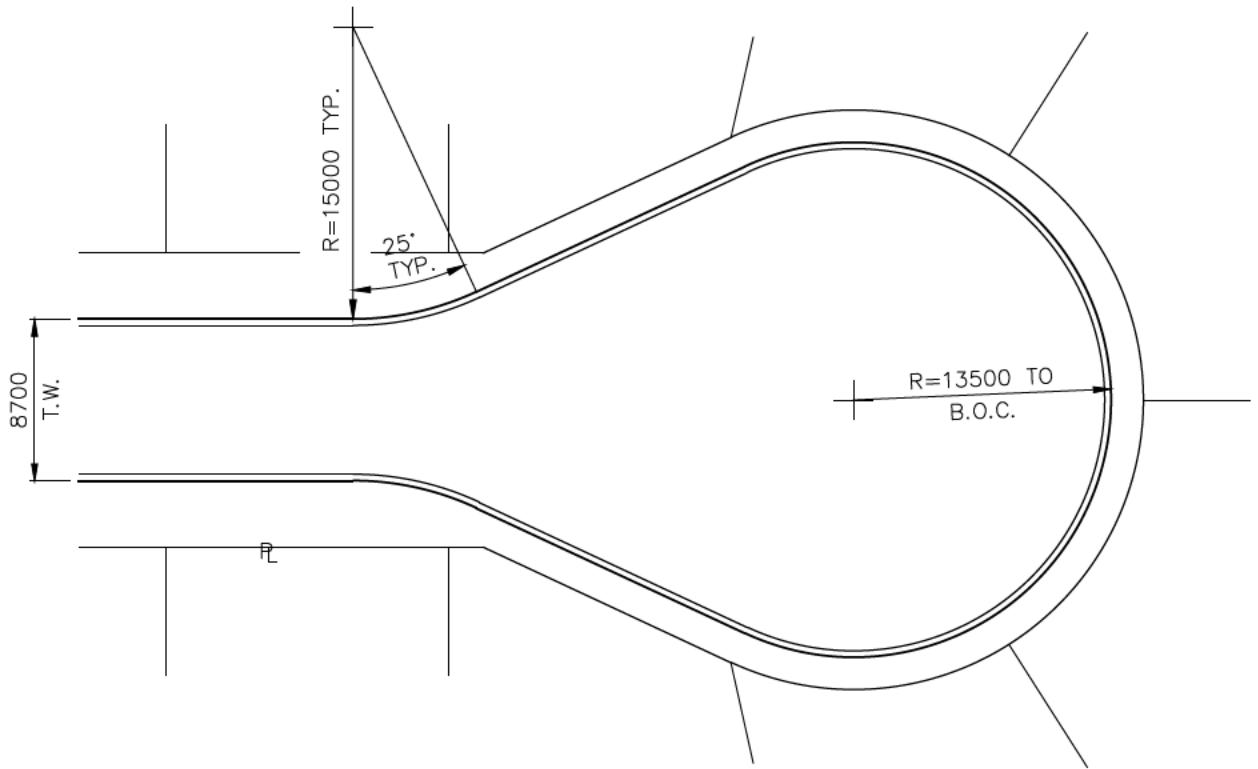
- 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	SIDE SLOPE	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | 

CONSTRUCTION STANDARDS		
Graded and Gravelled Road Rural Area		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-2D
Digital File: STDR-2D.dwg		





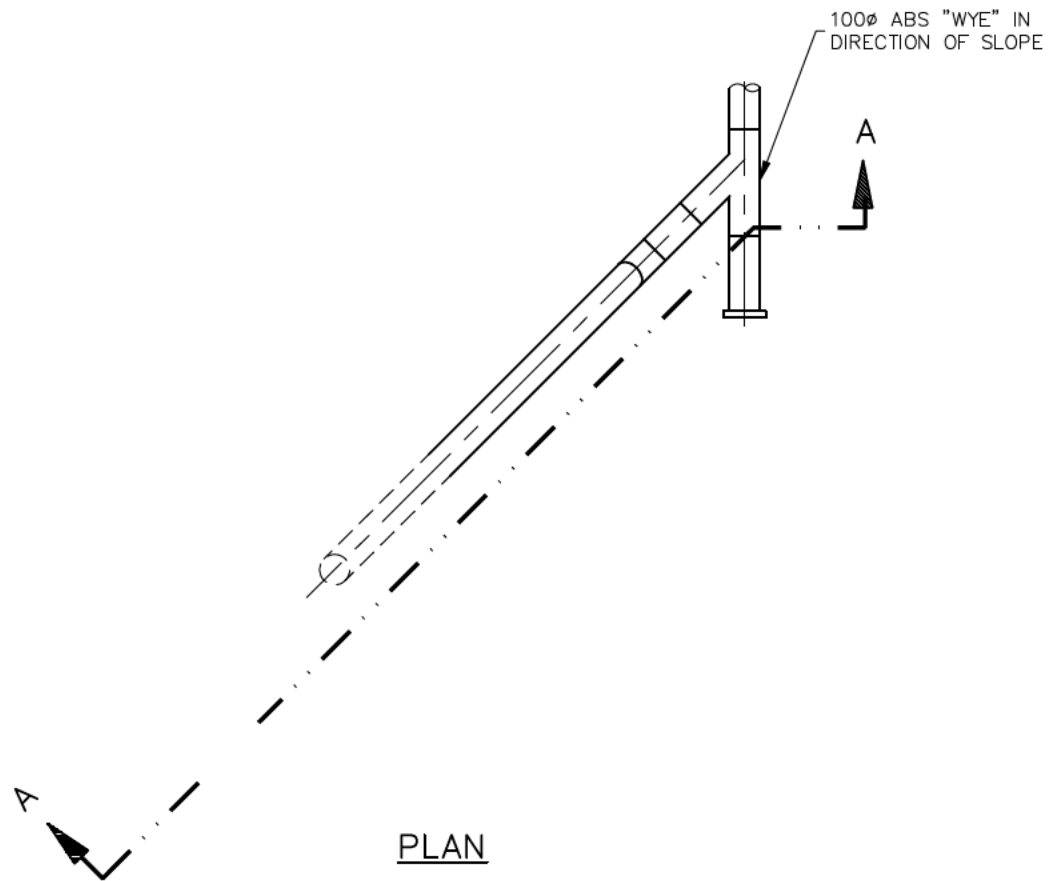
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

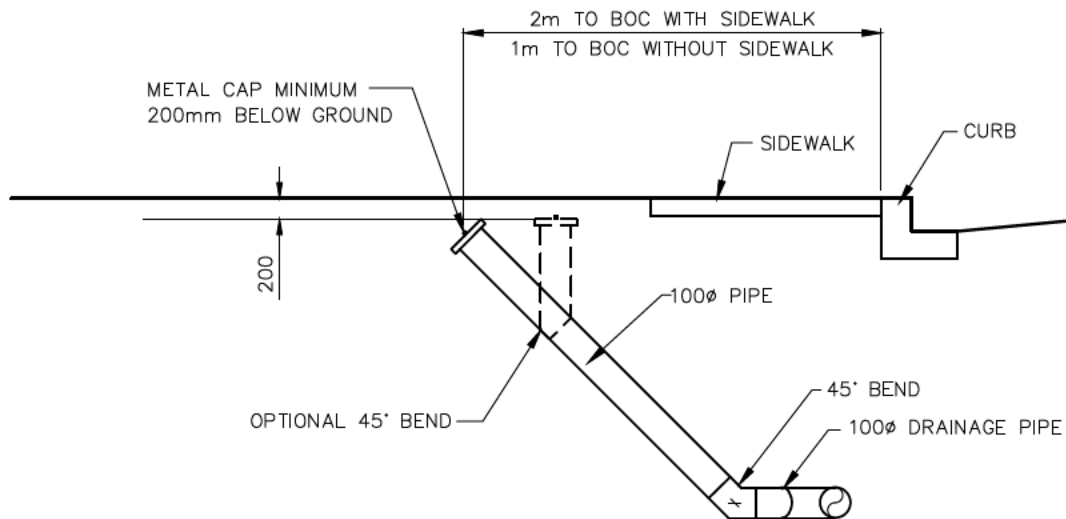
Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
Typical Cul-De-Sac		
Designed By:	Approved: Stella Madsen	
Date: Jan/98	Scale: NTS	R-2E
Digital File: STD-2E.dwg		



PLAN



SECTION A-A

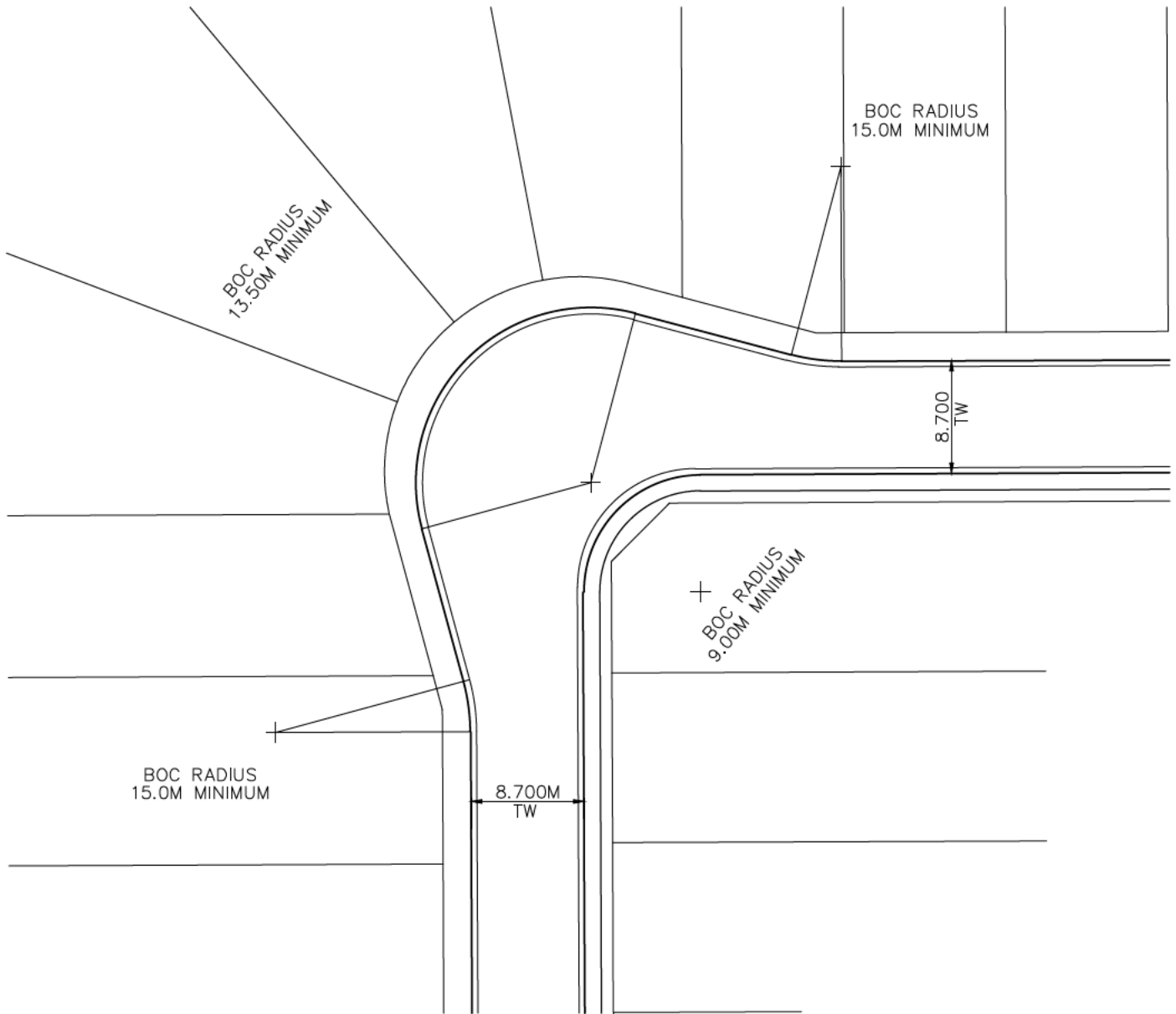
**NOTE:**

1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.
2. NOTE LOCATION OF CLEAN-OUT ON AS-BUILT.

Date	Revisions	By
JAN/03	CAP LOCATION	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Drainage Pipe Clean-out Detail</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>Jan/98</b>	Scale: <b>NTS</b>	<b>R-2F</b>
Digital File: <b>STDR-2F.dwg</b>		



Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

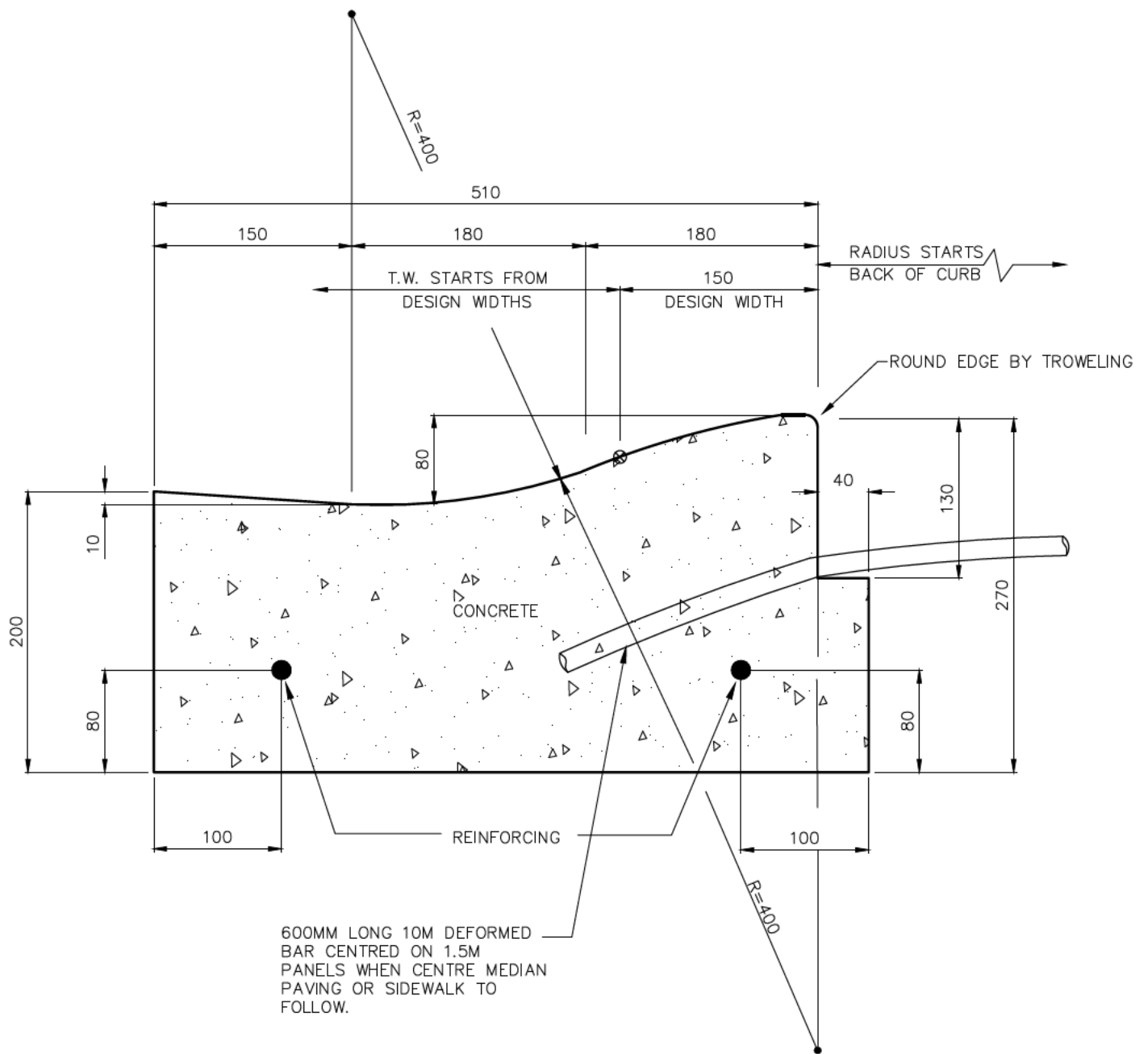
City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS  
**Typical Crescent Corner**

Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/02** Scale: **NTS** **R-2G**

Digital File: **STDR-2G.dwg**



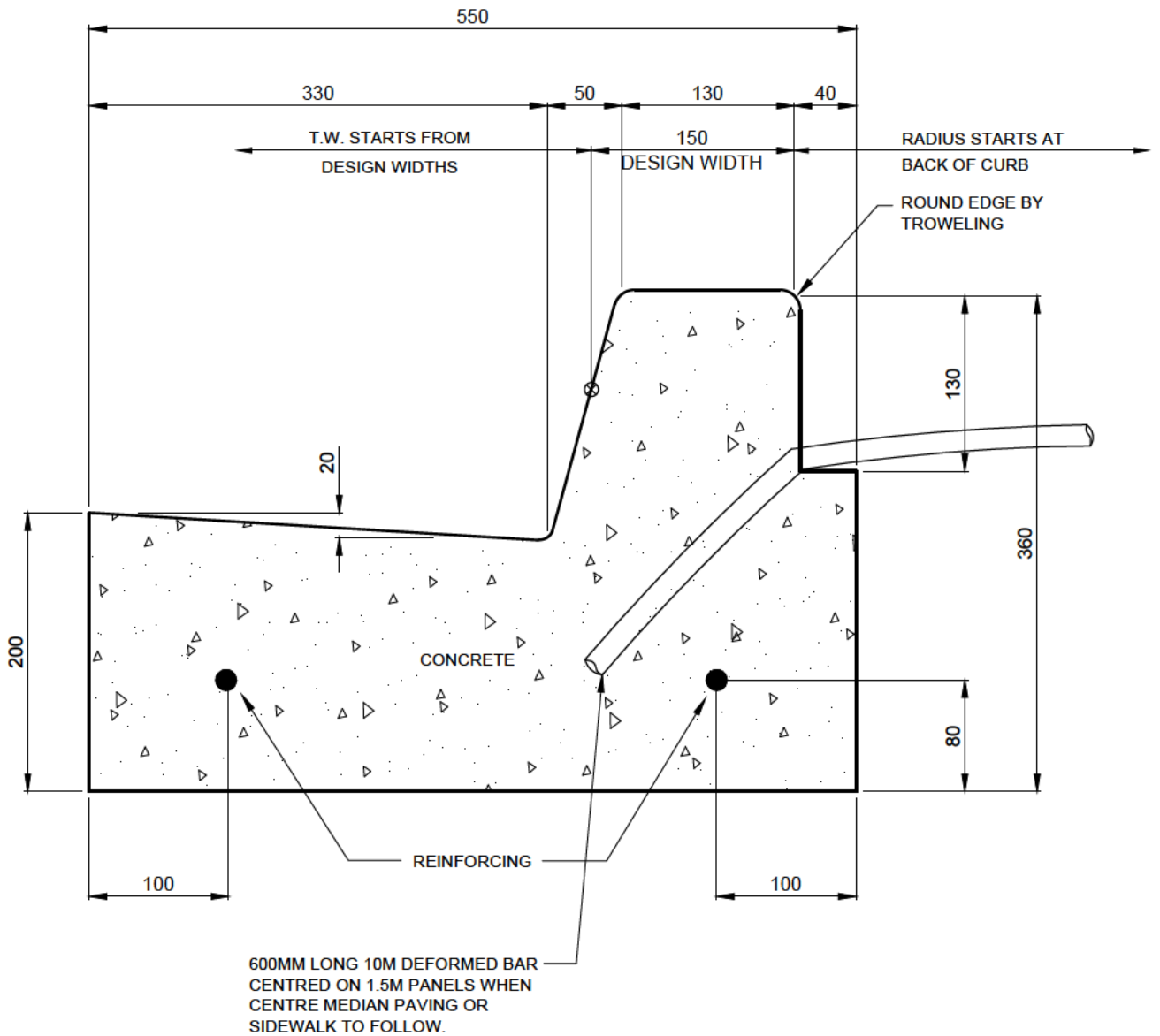
**NOTES:**

1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10 M REINFORCING REQUIRED:
  - INDUSTRIAL AREAS
  - AT INTERSECTIONS ON RADII

Date	Revisions	By
JAN/03	DEFORMED BAR; NOTE 2	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
Rolled Curb and Gutter		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-3
Digital File: STDR-3.dwg		



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10M REINFORCING REQUIRED AT INTERSECTIONS ON RADII IN COMMERCIAL AND INDUSTRIAL AREAS. MAY BE OMITTED IN RESIDENTIAL AREAS IF CURB & GUTTER CAST CONCURRENTLY WITH WALK.

Date	Revisions	By
JAN/03	DEFORMED BAR; NOTE 2	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/08	NOTE 2	J.H.
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

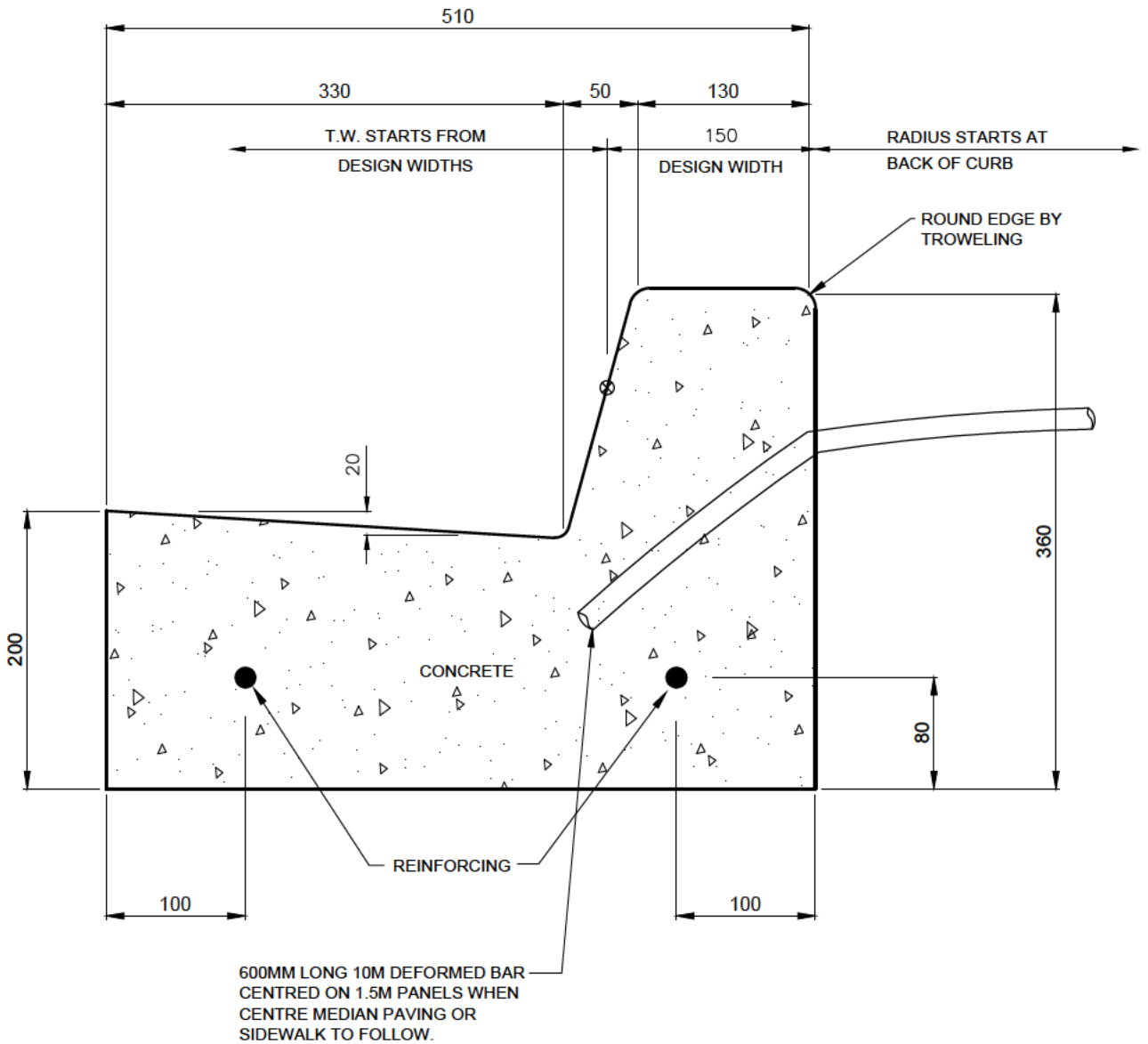
CONSTRUCTION STANDARDS

**Curb and Gutter Section with Walk Lip**

Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/98** Scale: **NTS** **R-4**

Digital File: **STDR-4.DWG**



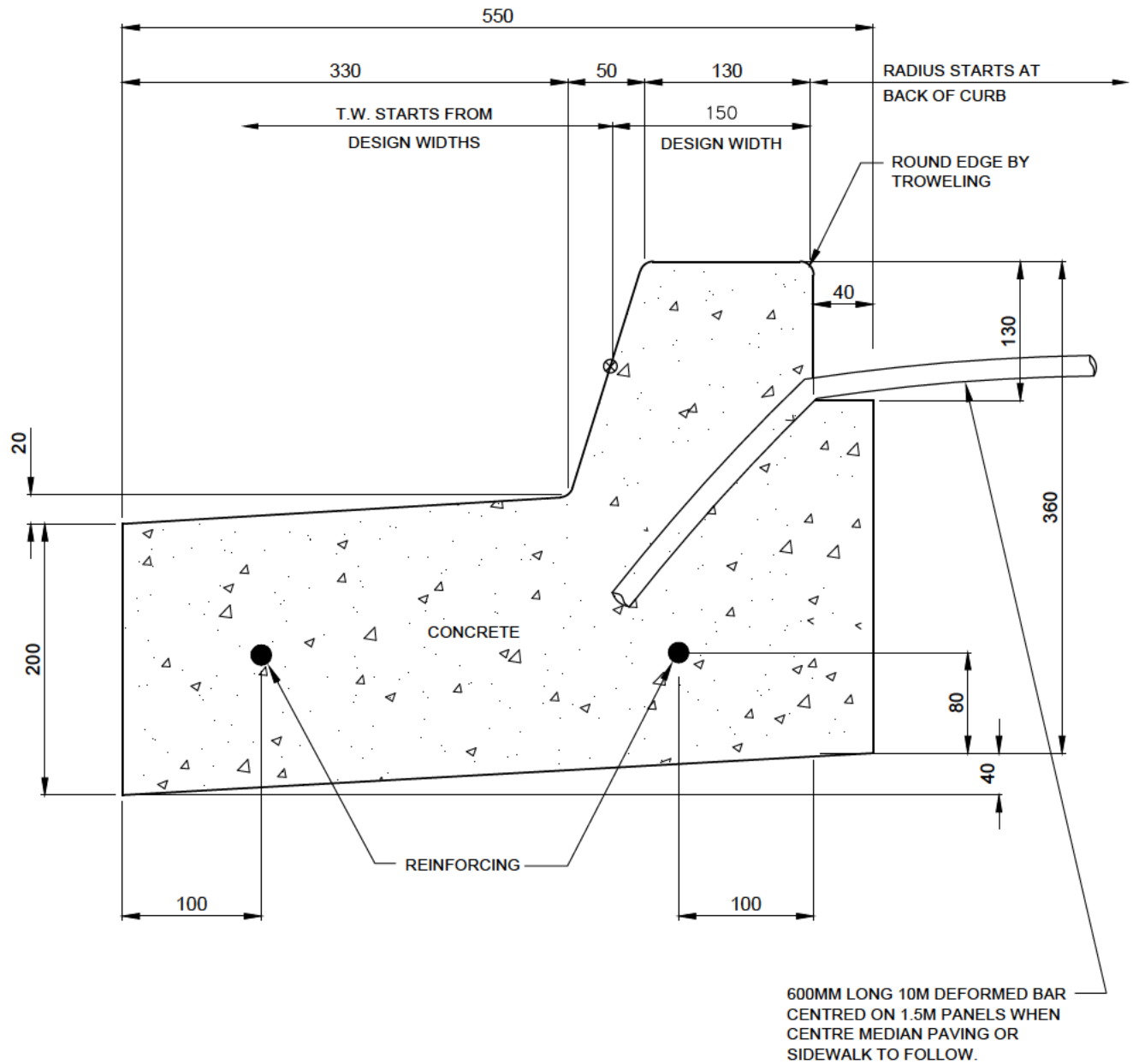
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10M REINFORCING REQUIRED AT INTERSECTIONS ON RADII IN COMMERCIAL AND INDUSTRIAL AREAS. MAY BE OMITTED IN RESIDENTIAL AREAS IF CURB & GUTTER CAST CONCURRENTLY WITH WALK.

Date	Revisions	By
JAN/03	DEFORMED BAR; NOTE 2	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/06	NOTE 2	J.H.
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
<b>Curb and Gutter Section without Walk Lip</b>		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	<b>R-4A</b>
Digital File: STDR-4A.dwg		



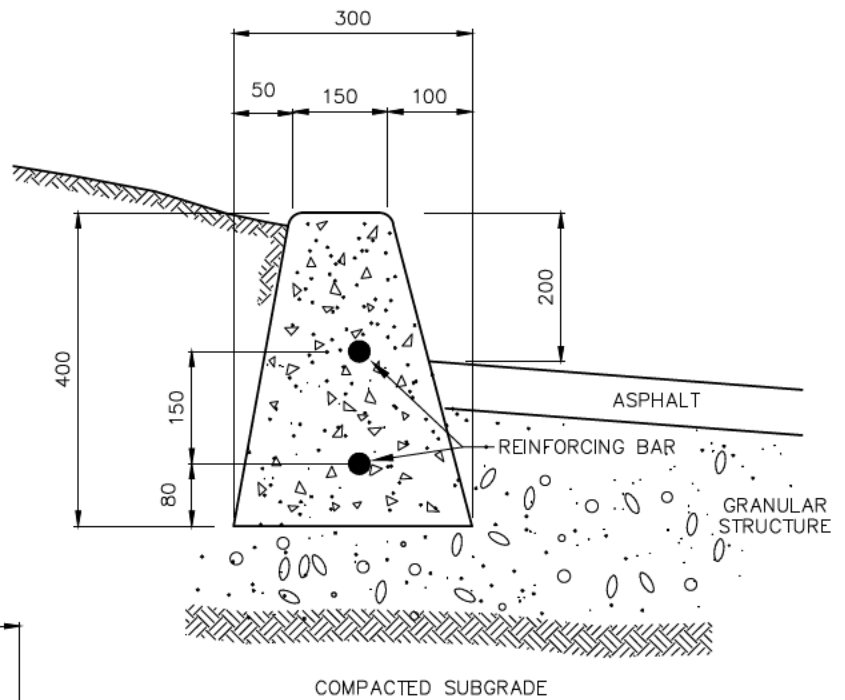
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10M REINFORCING REQUIRED AT INTERSECTIONS ON RADII IN COMMERCIAL AND INDUSTRIAL AREAS. MAY BE OMITTED IN RESIDENTIAL AREAS IF CURB & GUTTER CAST CONCURRENTLY WITH WALK.

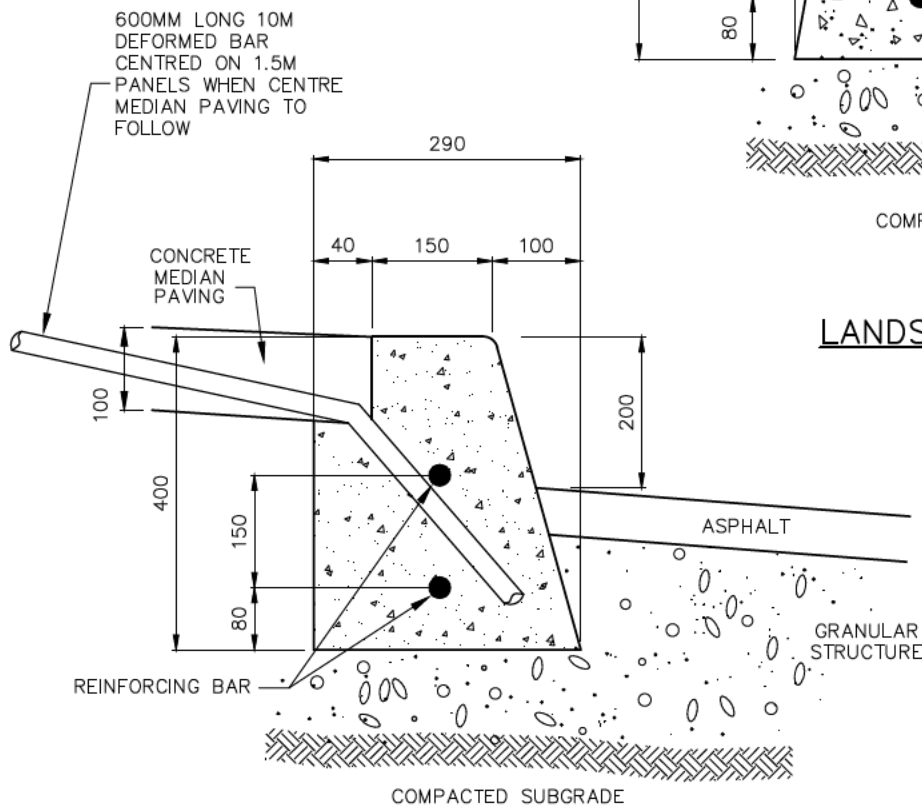
Date	Revisions	By
JAN/02	LIP AT BOC; TIE BAR	J.H.
JAN/03	NOTE 2	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Reverse Curb and Gutter Section</b>		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	<b>R-4B</b>
Digital File: STDR-4B.dwg		



LANDSCAPED MEDIAN



HARD SURFACE MEDIAN

**NOTES:**

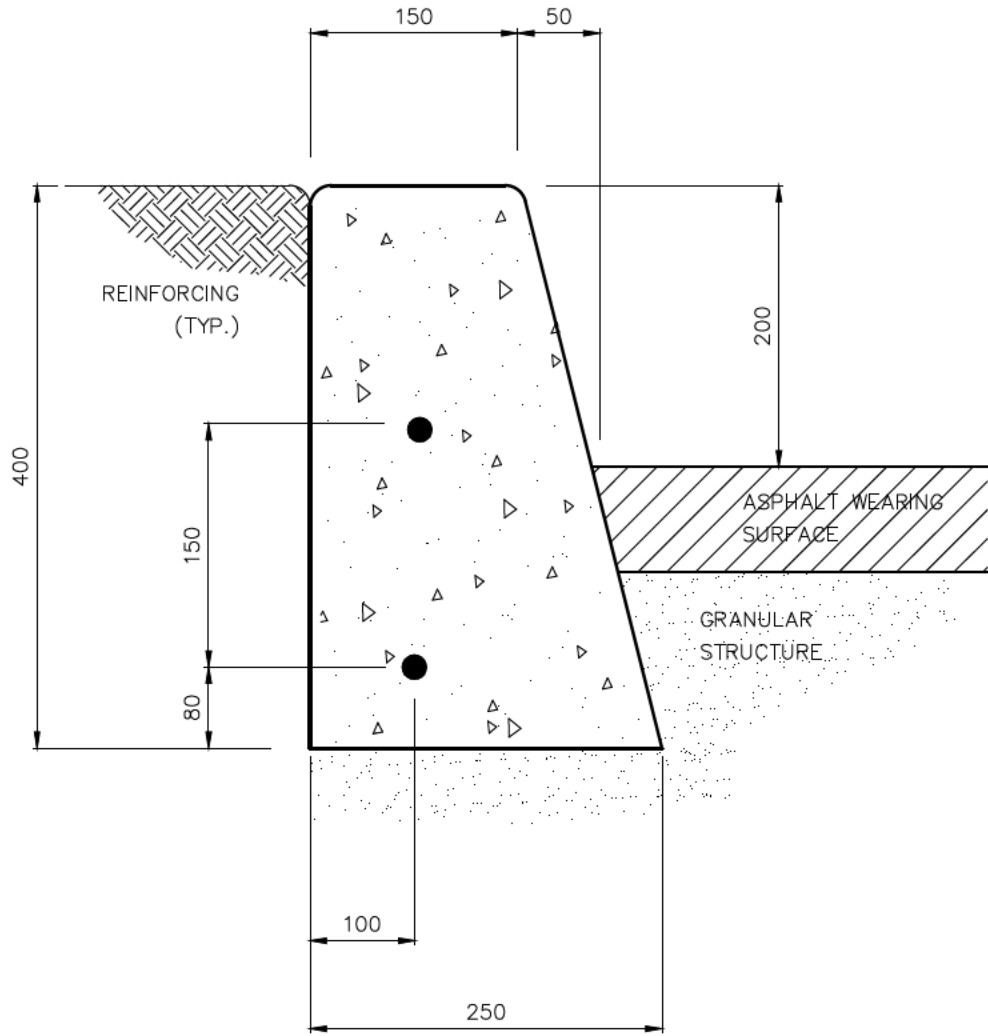
1. 10M REINFORCED BARS TO BE USED ON CURVED SECTIONS.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/02	DIMENSIONS; TIE BAR	J.H.
JAN/03	TITLE DESCRIPTION	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Centre Median Curb Standard</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date	Scale	<b>R-5</b>
JAN/98	NTS	
Digital File: <b>STDR-5.dwg</b>		





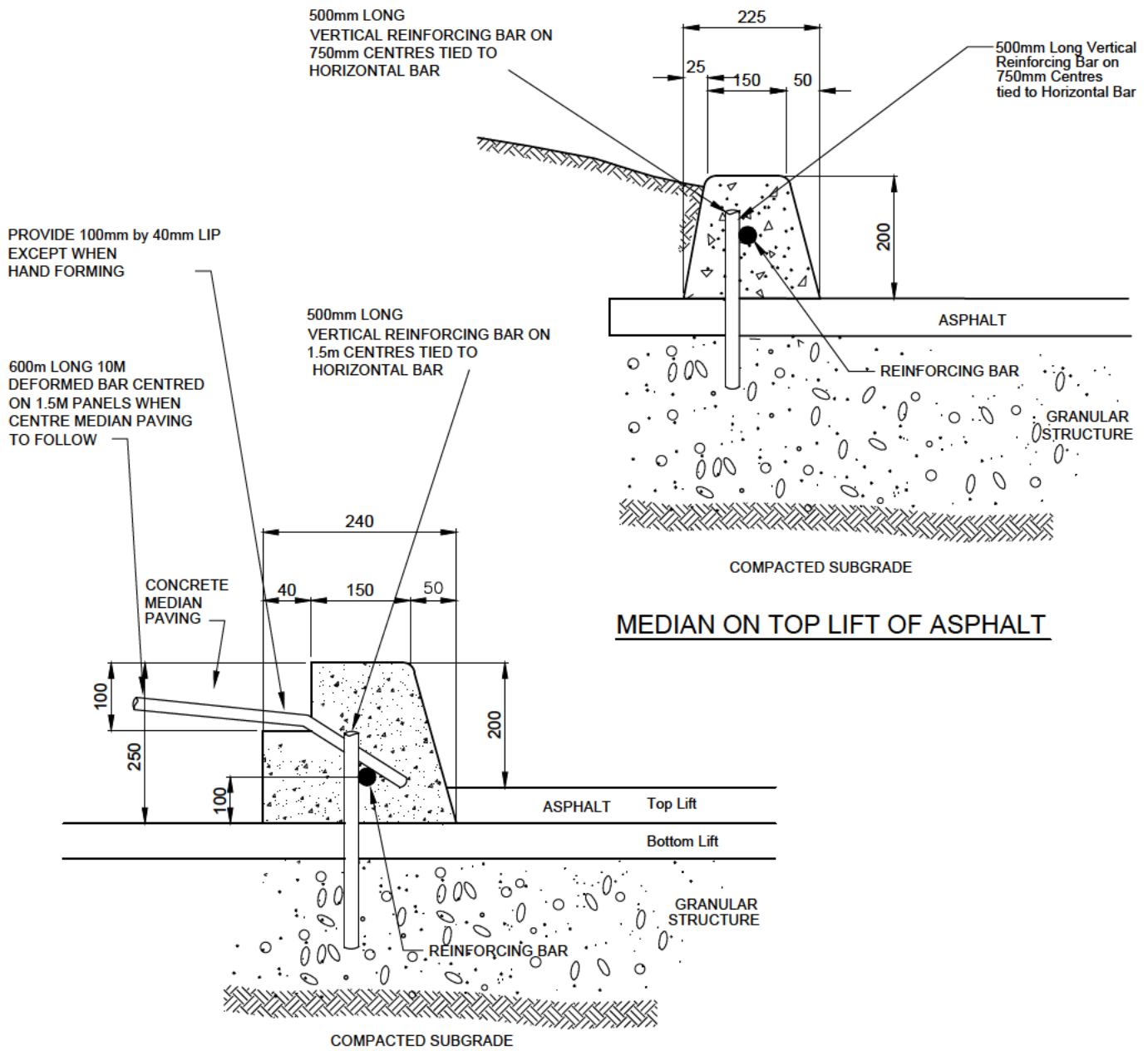
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10M REINFORCING BARS TO BE USED ON BULL NOSES.
3. ON RADII OF LESS THAN 3 METERS, THE FRONT FACE MAY BE VERTICAL.

Date	Revisions	By
JAN/03	NOTE 2	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
<b>Hand Formed Centre Median Curb</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date	Scale	<b>R-5A</b>
JAN/98	NTS	
Digital File: <b>STD-5A.dwg</b>		



**NOTES:**

1. 10M REINFORCED BARS TO BE USED VERTICALLY AND HORIZONTALLY ON ALL SECTIONS.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
DEC/06	VERTICAL BAR SPACING	J.H.
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

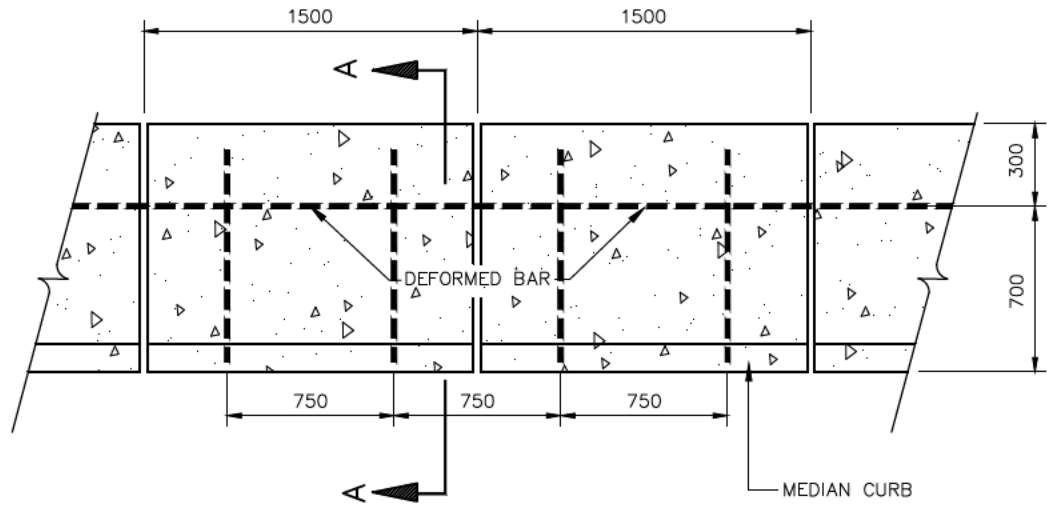
CONSTRUCTION STANDARDS

**Centre Median Curb Cast on Asphaltic Pavement**

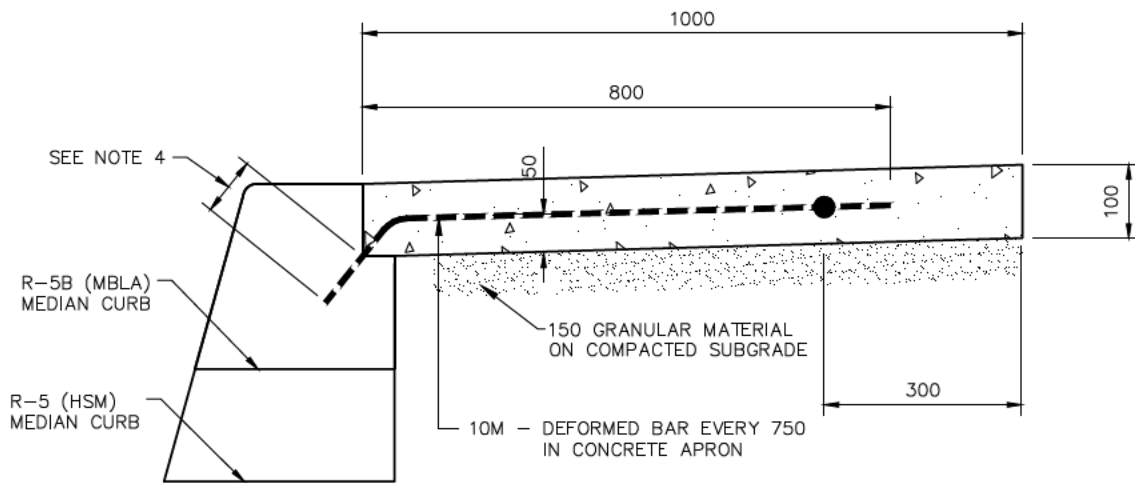
Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/02** Scale: **NTS** **R-5B**

Digital File: **STDR-5B.dwg**



PLAN



SECTION A-A

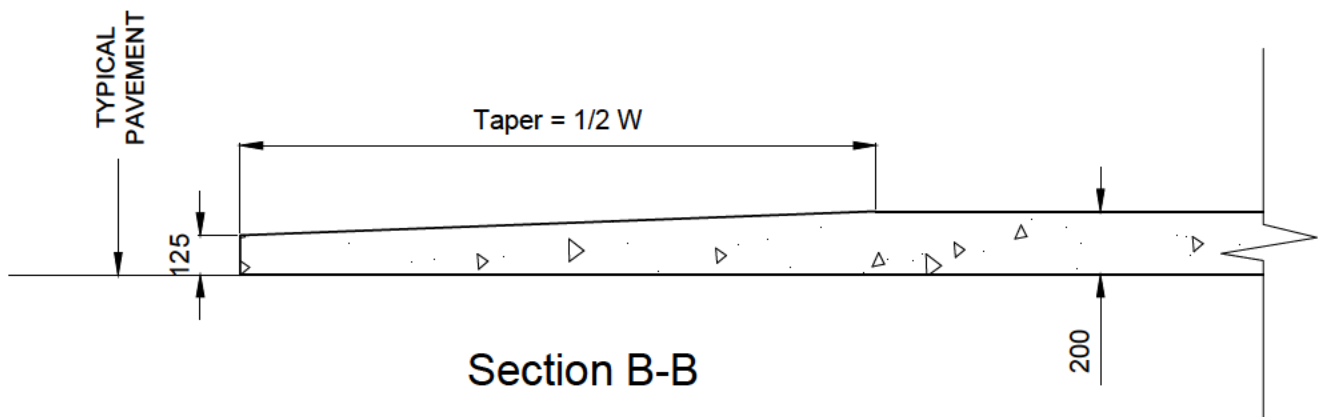
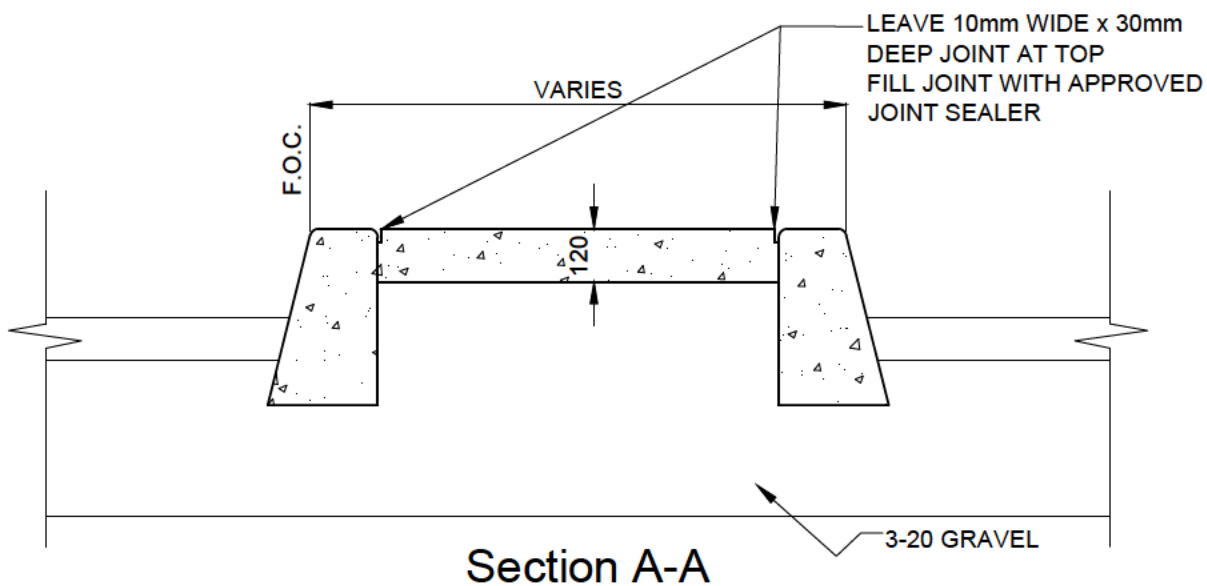
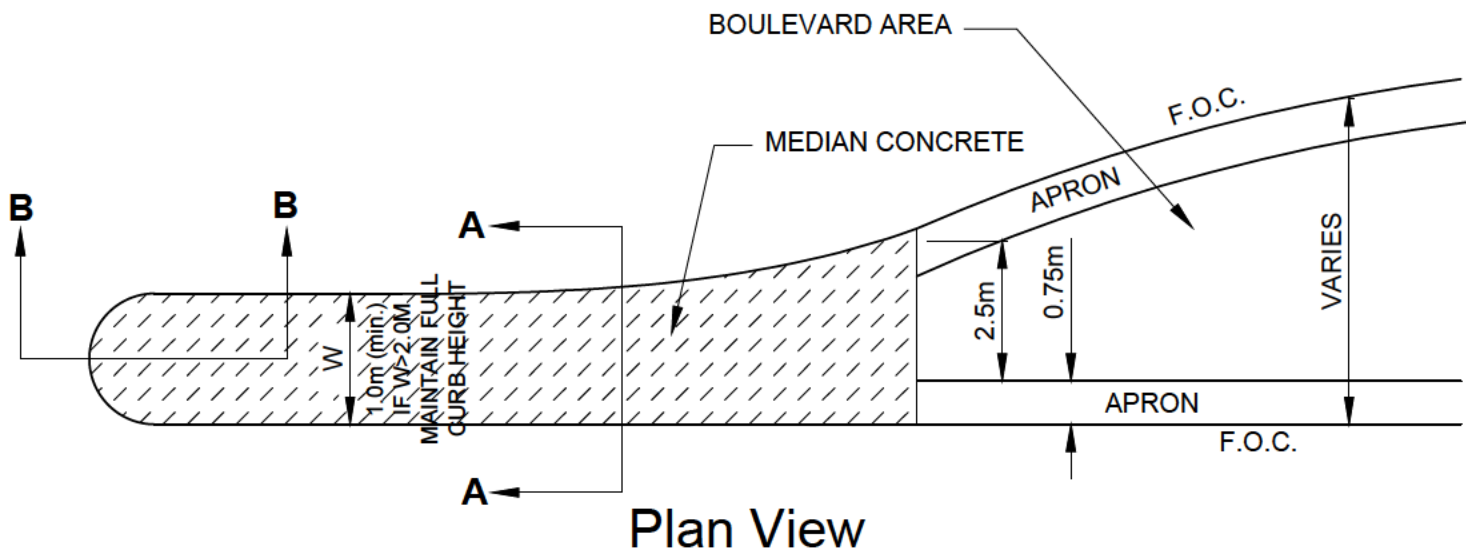
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CONTRACTION JOINTS EVERY 1500
3. TIE ALL DEFORMED BARS.
4. MINIMUM 100mm LONG FOR R-5B; 150mm TO 200mm LONG FOR R-5

Date	Revisions	By
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
Centre Median Apron		
Designed By:	Approved: Stella Madsen	
Date: FEB/04	Scale: NTS	R-5C
Digital File: STDR-5C.dwg		



**NOTES:**

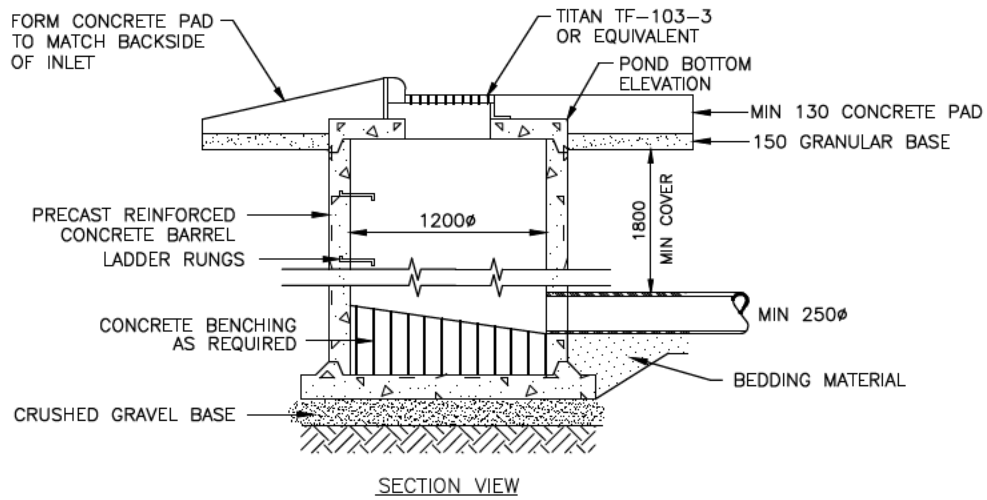
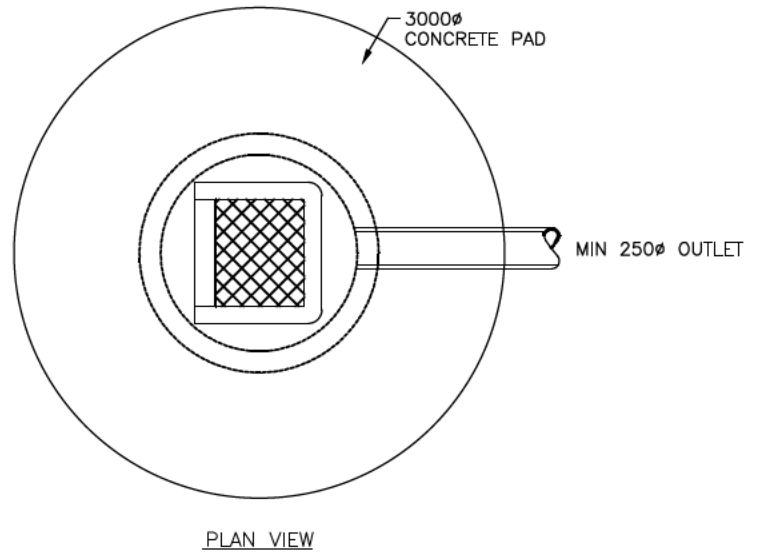
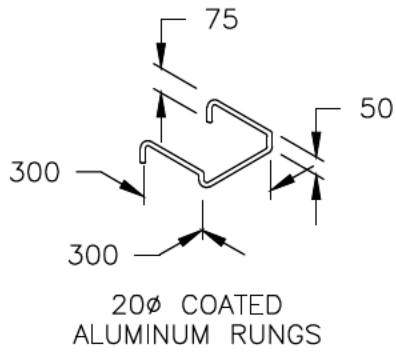
1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
DEC/08	CREATED STANDARD DETAIL DRAWING	RAA
MAR/10	UPDATED STANDARD DETAIL DRAWING	ELB
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Bullnose Centre Median - End Treatment</b>		
Designed By:	Approved: Kelly Wyatt	
Date: Jan/11	Scale: NTS	<b>R-5D</b>
Digital File: STDR-5D.dwg		





**NOTES:**

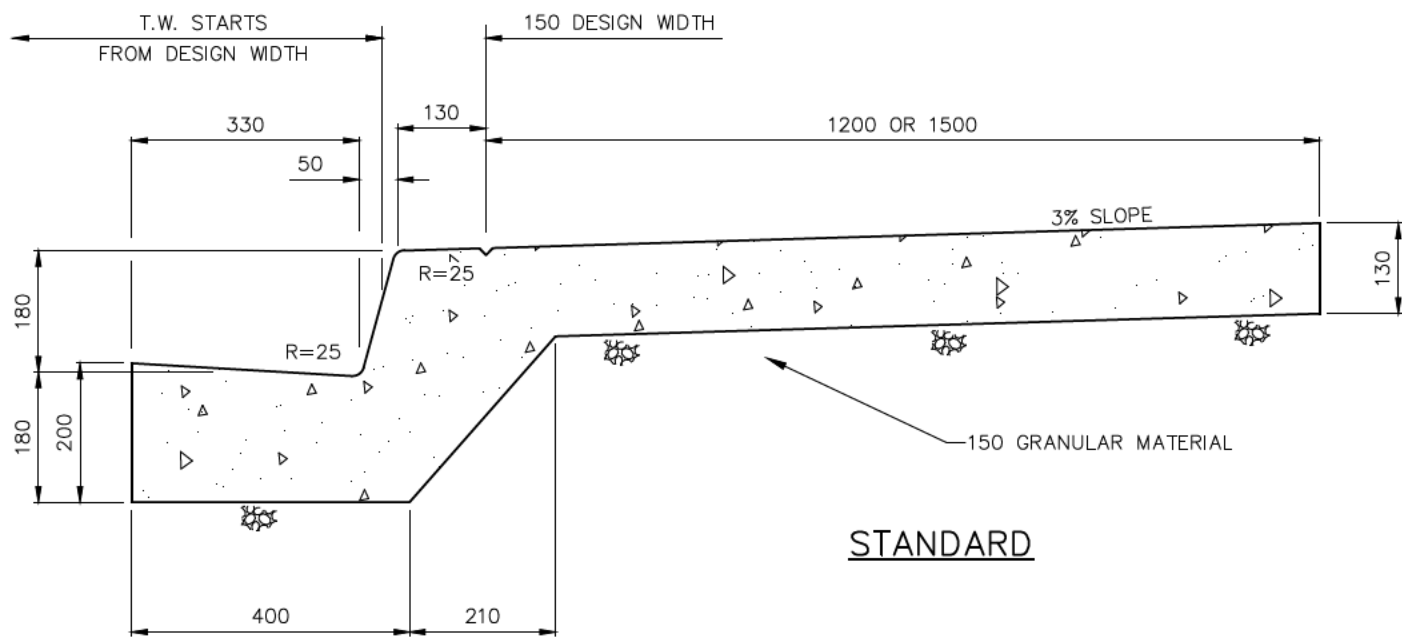
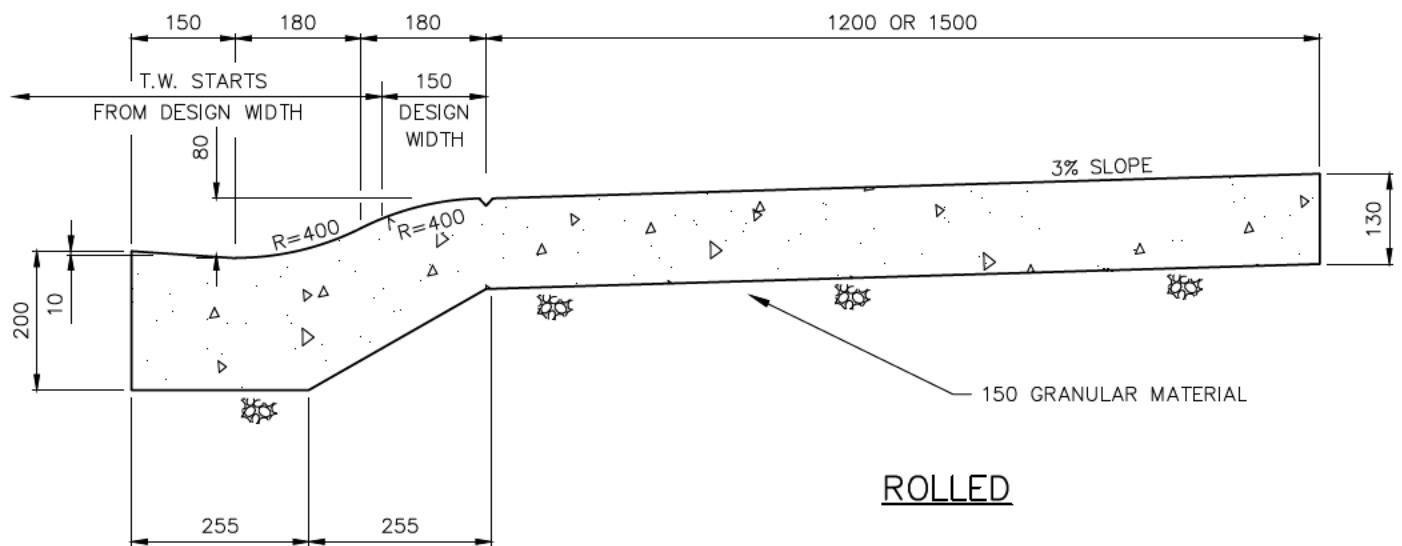
1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.

**INLET STRUCTURE DETAIL**

Date	Revisions	By
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
<b>CB With Concrete Apron</b>		
Designed By:	Approved: Kelly Wyatt	
Date: Jan/11	Scale: NTS	<b>R-6B</b>
Digital File: STR-6B.dwg		



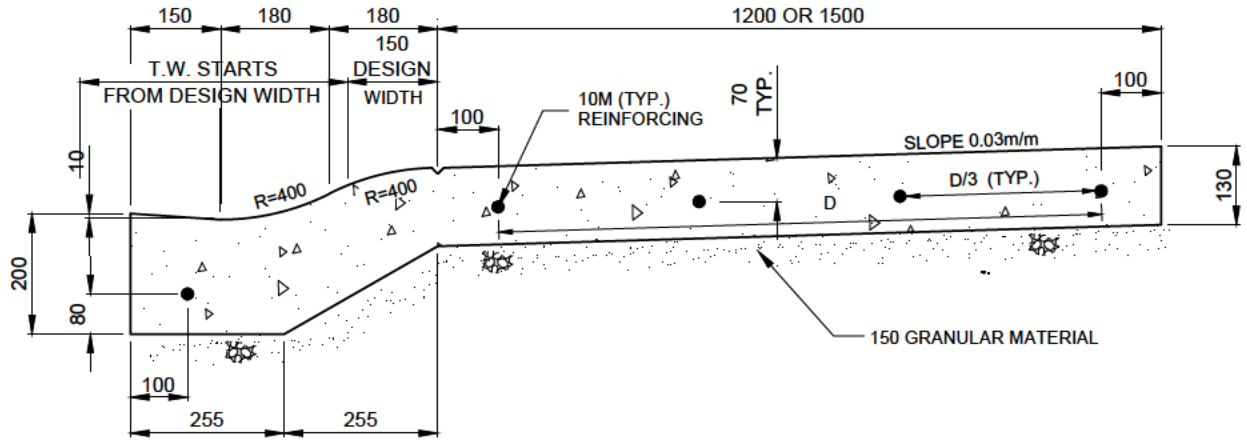
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. FOR ALLEY CROSSINGS, INCREASE WALK THICKNESS TO 180.

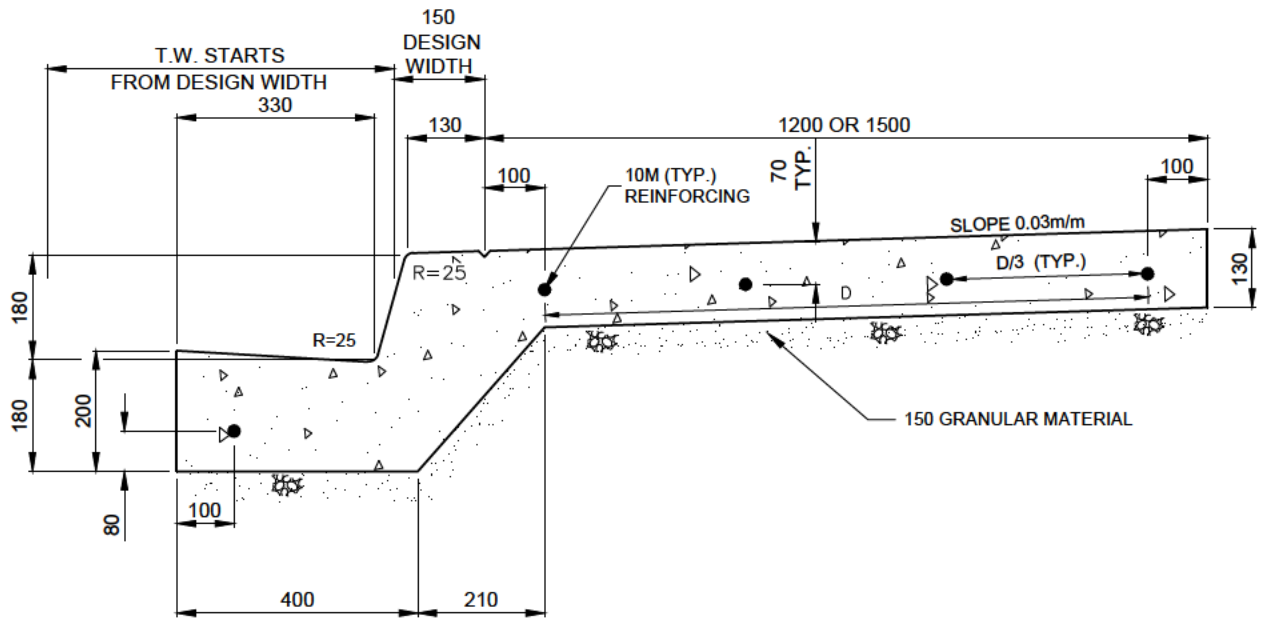
Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Monolithic Walk, Curb and Gutter</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-7</b>
Digital File: <b>STDR-7.dwg</b>		



**ROLLED CURB**



**STANDARD CURB**

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. LONGITUDINAL 10M BARS TO EXTEND 300mm BEYOND THE TOP OF FLARE AND TO BE TIED TO TRANSVERSE 10M BARS AT 600 O.C. IN COMMERCIAL AND INDUSTRIAL CROSSINGS.

Date	Revisions	By
JAN/03	GRANULAR MATL. DEPTH; NOTE 2	J.H.
JAN/03	TITLE BLOCK	MLG
JAN/03	NOTE 2	J.H.
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

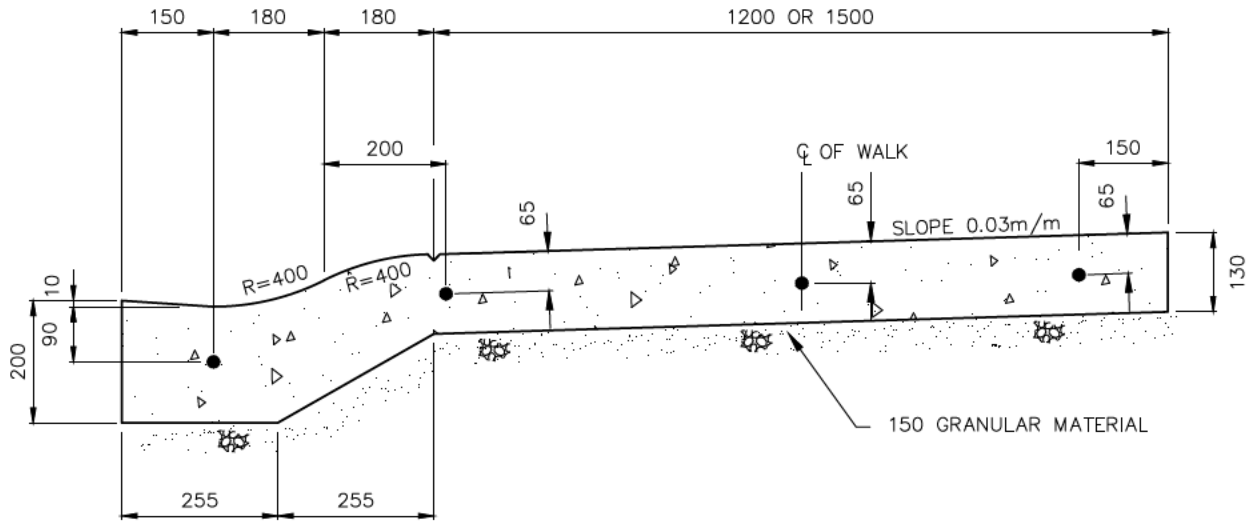
CONSTRUCTION STANDARDS  
**Reinforced Monolithic Walk, Curb and Gutter**

Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

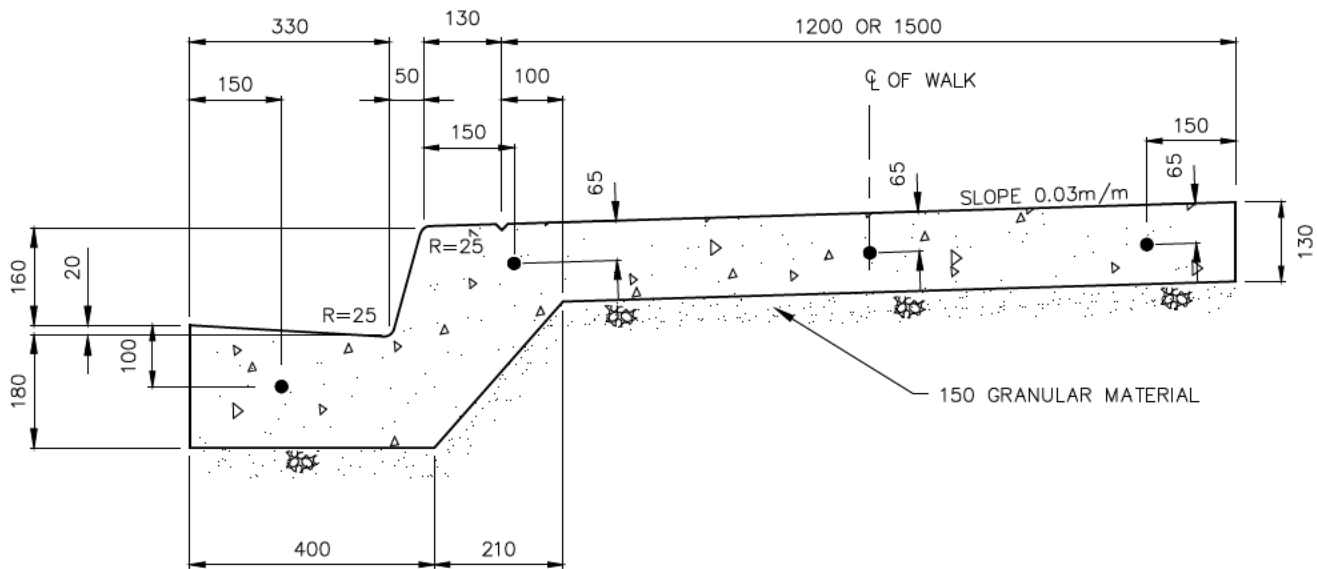
Date: **JAN/98** Scale: **NTS** **R-7A**

Digital File: **STDR-7A.dwg**





ROLLED



STANDARD

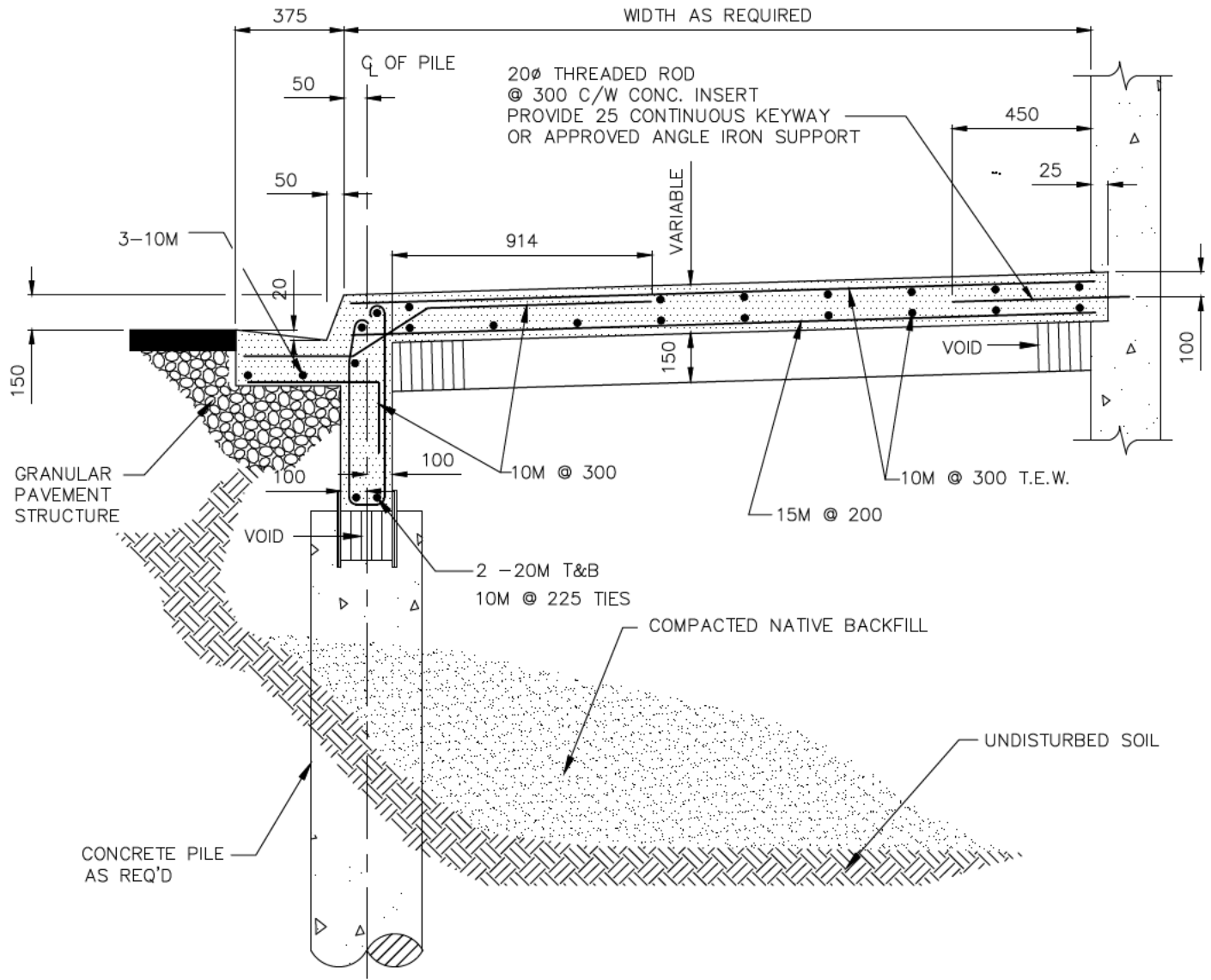
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10M DOWELS 1 METER LONG
3. GREASE ONE END OF DOWEL.

Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE DESCRIPTION	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Dowel Detail for Cold Expansion Joints</b>		
Designed By:		Approved: Stella Madsen
Date: JAN/98	Scale: NTS	<b>R-7B</b>
Digital File: STDR-7B.dwg		



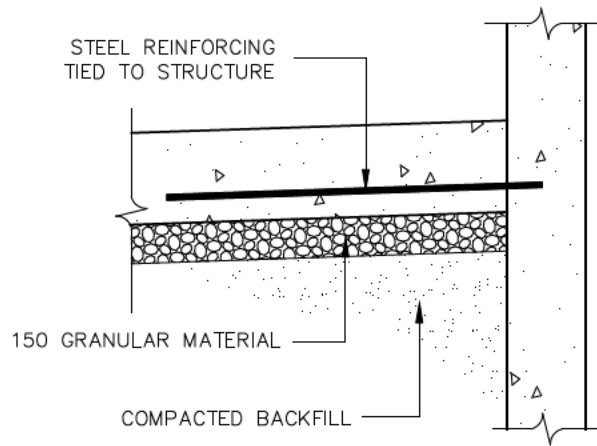
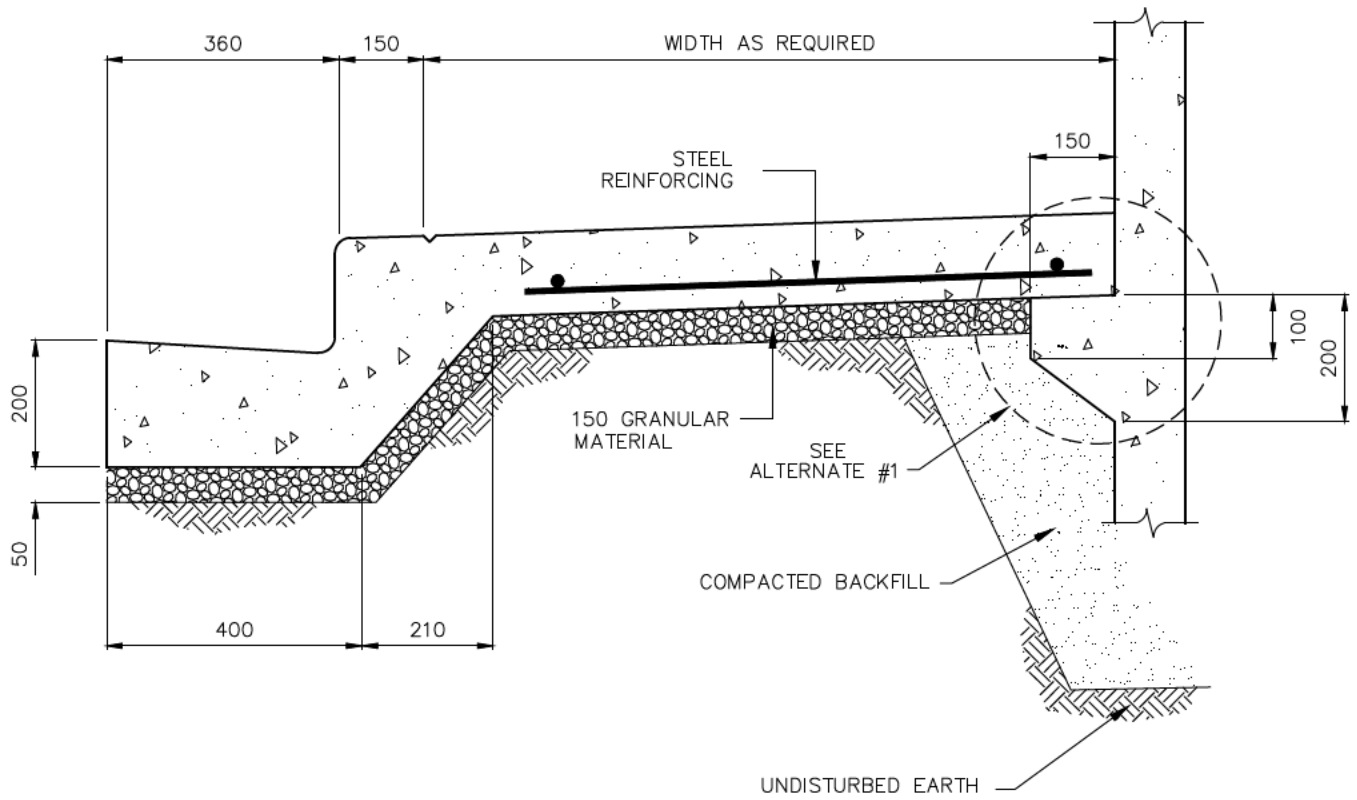
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. THE DIMENSIONS AND REINFORCING, SHOWN FOR THE SIDEWALK AND BEAM BELOW THE CURB, ARE EXAMPLES ONLY. IN EACH CASE, A STRUCTURAL SIDEWALK DESIGN IS TO BE PREPARED AND SUBMITTED TO THE DIRECTOR OF DEVELOPMENT ENGINEERING FOR APPROVAL.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
Structural Sidewalk		
Option #1		
Designed By:	Approved: Stella Madsen	
Date	Scale	R-7C
JAN/11	NTS	
Digital File	STDR-7C.dwg	



**ALTERNATE #1**

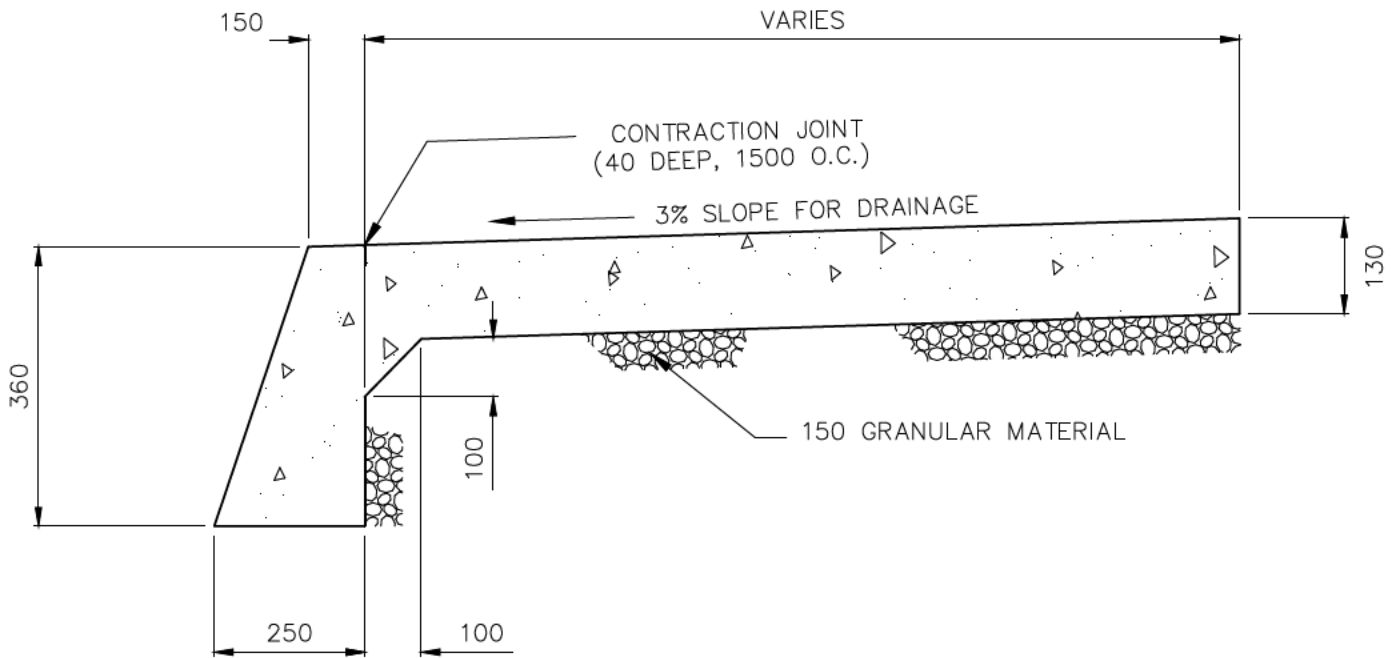
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Structural Sidewalk Option #2</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-7D</b>
Digital File: <b>STDR-7D.dwg</b>		



CROSS SECTION

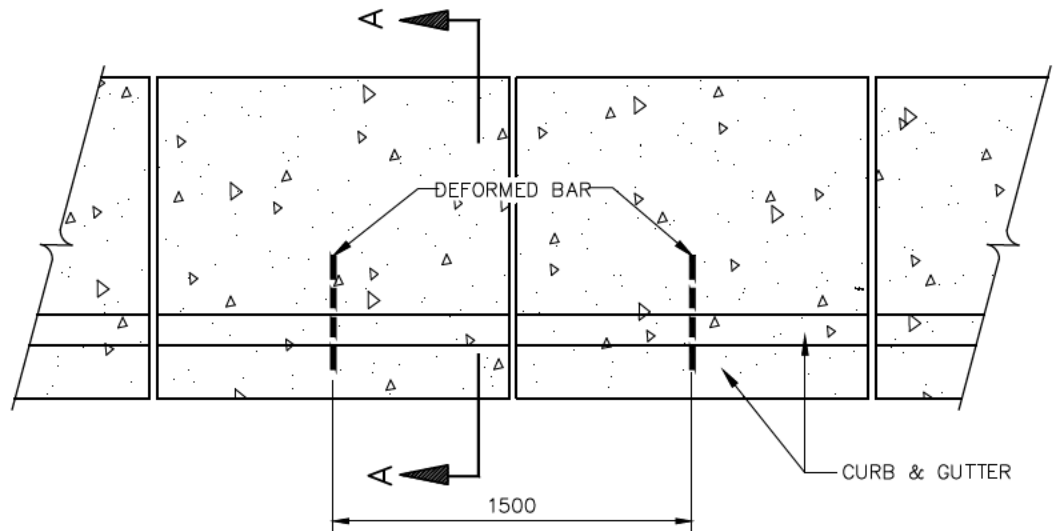
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. TO BE USED IN MAINTENANCE LOCATIONS ONLY WHERE REPLACEMENT IS UNDER 30 METERS IN LENGTH.

Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

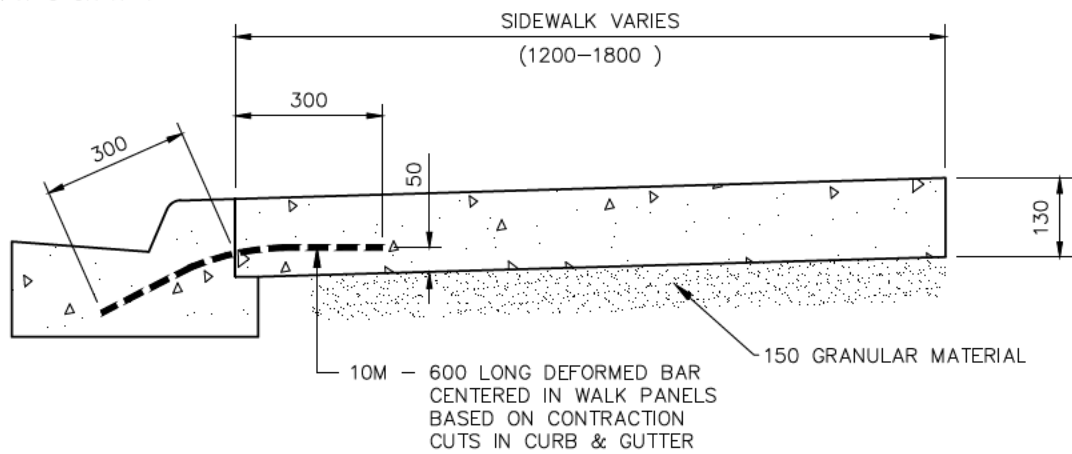


CONSTRUCTION STANDARDS		
Combined Walk and Curb		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-7E
Digital File: STDR-7E.dwg		



**PLAN**

CURB & GUTTER SECTION IN ACCORDANCE WITH R-3 OR R-4



**SECTION A-A**

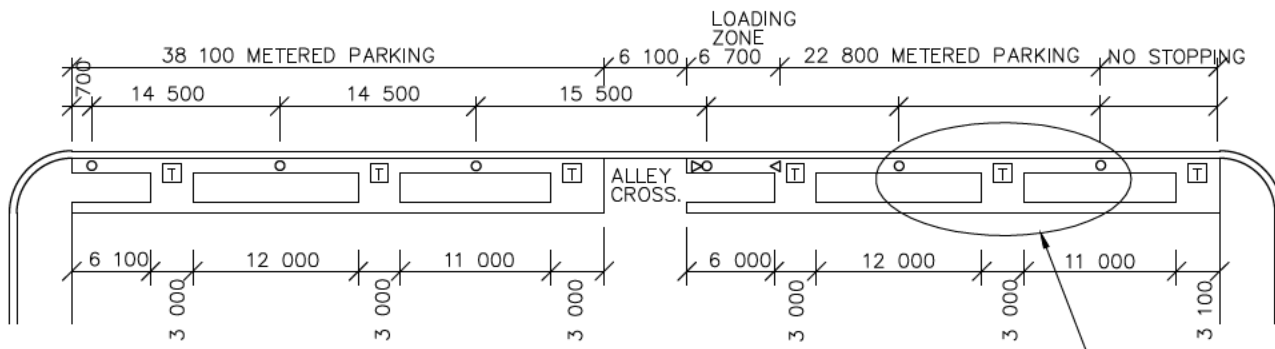
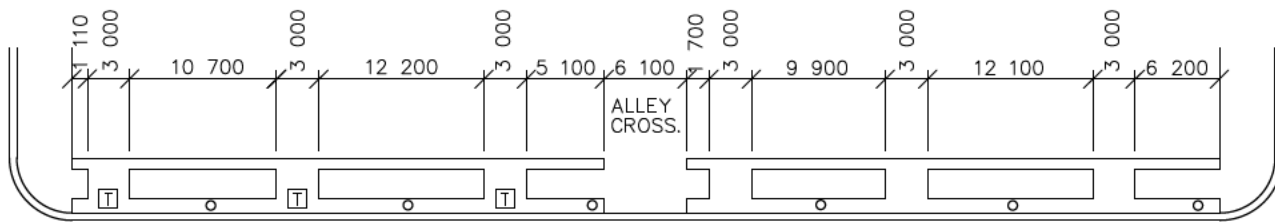
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. SEE DRAWING R-7 FOR LOCATION OF LONGITUDINAL REINFORCING.

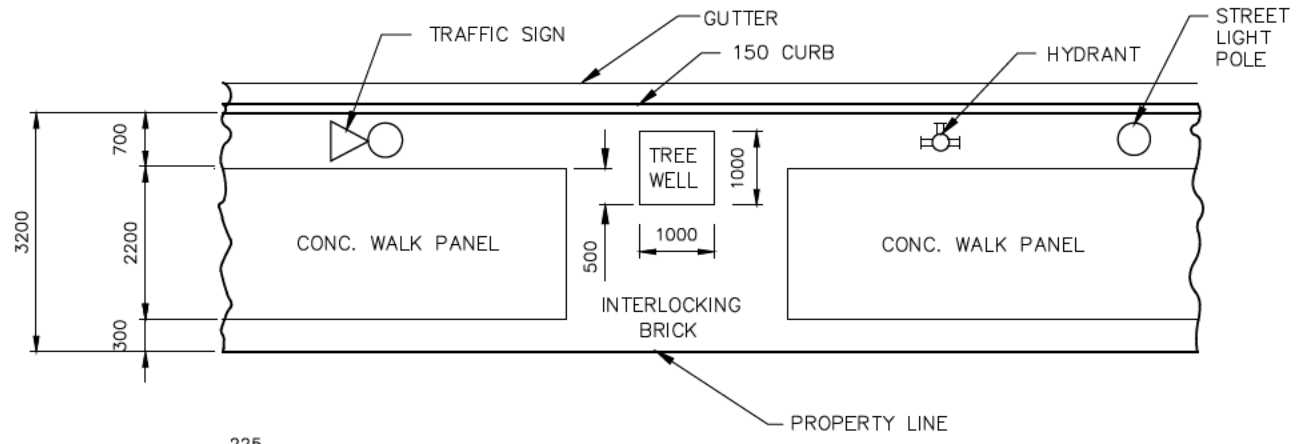
Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



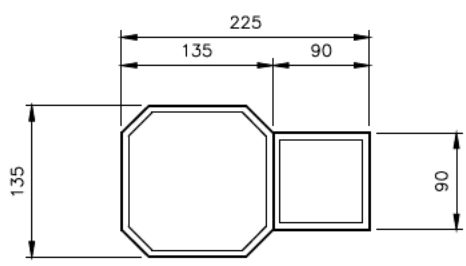
CONSTRUCTION STANDARDS		
Concrete Walk		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-7F
Digital File: STDR-7F.dwg		



SEE DETAIL 'A'



**DETAIL 'A'**



**PAVING STONE**

**NOTES:**

1. STREET LIGHT/METERS CENTERED ON PANELS.
2. NO PARKING WITHIN 3m OF ALLEY
3. TREE WELLS CAN BE ELIMINATED IF NECESSARY.
4. CENTRE TREE WELLS BETWEEN CONCRETE WALK PANELS
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

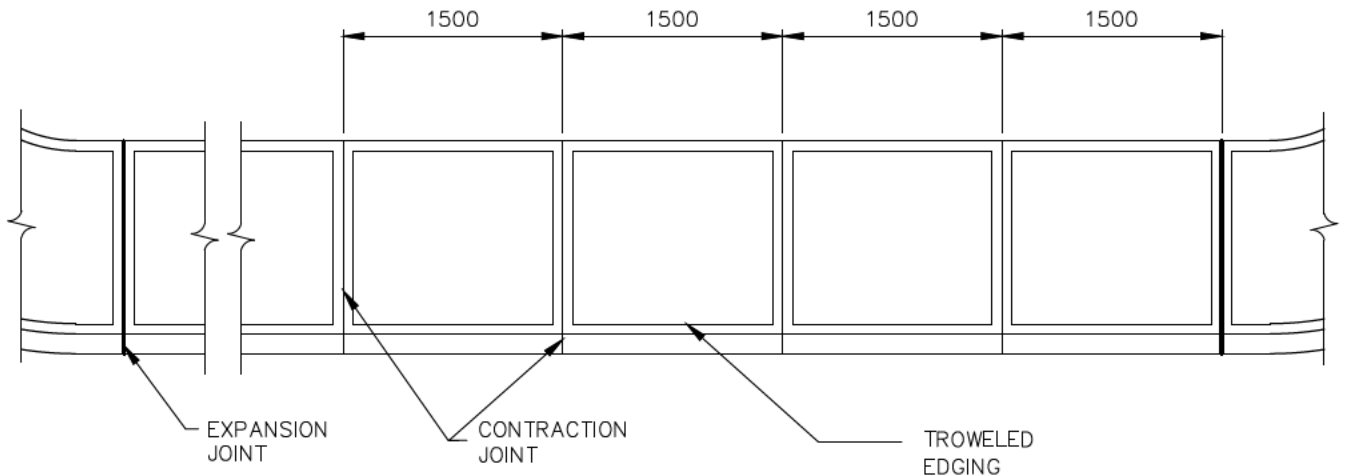
City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS  
**Typical Sidewalk Enhancement**

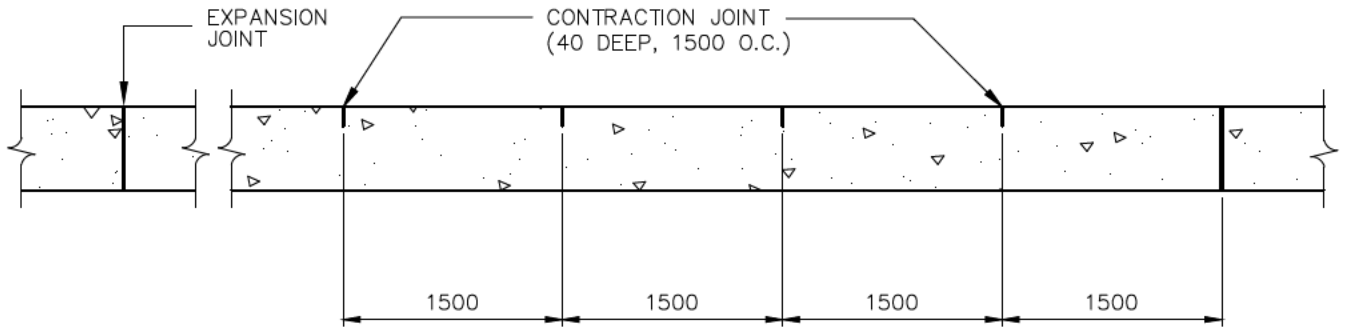
Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/98** Scale: **NTS** **R-7G**

Digital File: **STDR-7G.dwg**



PLAN



ELEVATION

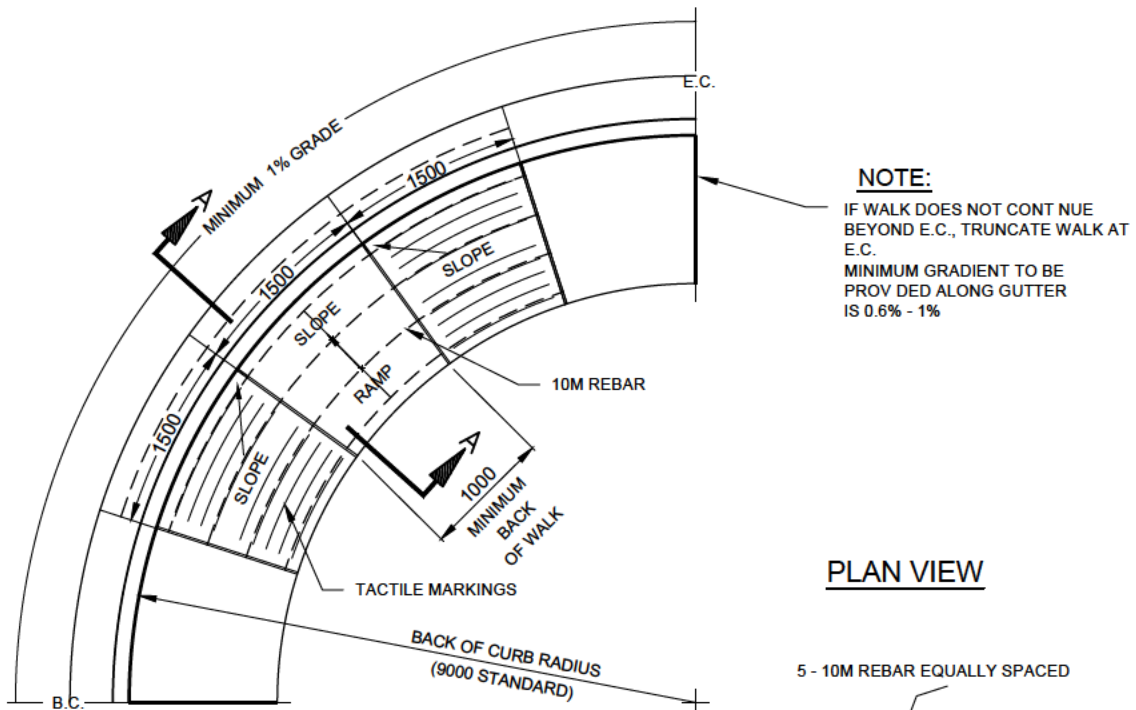
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/02	1500 DIMENSION CORRECTION	J.H.
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

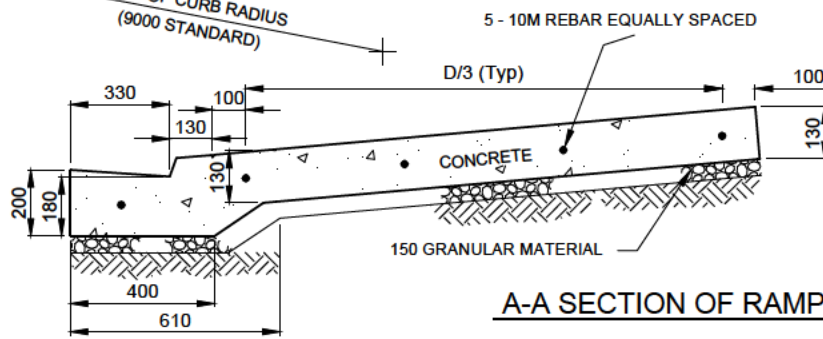
City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
Edging and Joint Detail		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-8
Digital File: STD-8.dwg		

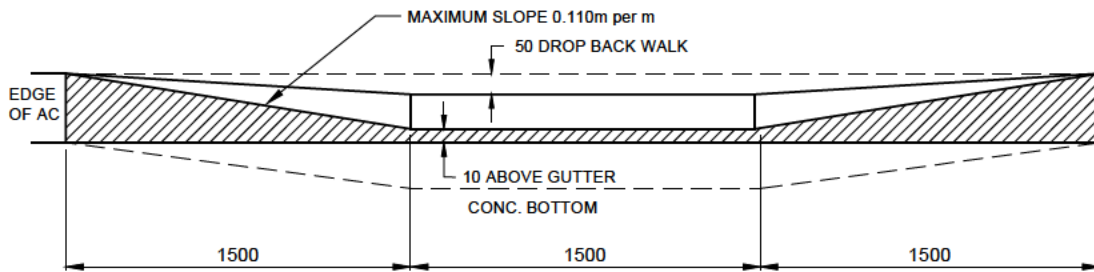


**NOTE:**  
 IF WALK DOES NOT CONTINUE BEYOND E.C., TRUNCATE WALK AT E.C.  
 MINIMUM GRADIENT TO BE PROVIDED ALONG GUTTER IS 0.6% - 1%

**PLAN VIEW**



**A-A SECTION OF RAMP**



**FRONT VIEW**

**NOTES:**

1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.
2. PEDESTRIAN RAMPS TO BE LOCATED AT CENTER OF RADIUS.
3. RED COLOURED PIGMENT TO BE ADDED TO CONCRETE SURFACE OF RAMP ONLY.
4. GRADIENT OF GUTTER AROUND RADIUS TO BE MINIMUM OF 1.0%

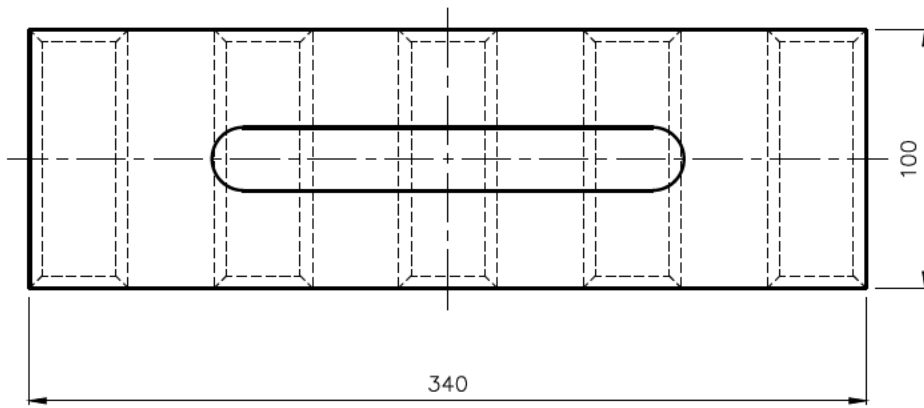
JUL/10 TITLE BLOCK JJA

Date	Revisions	By
JAN/02	NOTE ADDED AT EC	J.H.
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE DESCRIPTION	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/04	DEPTH OF LIP	J.H.
DEC/06	NOTE 4 ADDED	J.H.
MAR/10	REBAR ADDED	M.J.

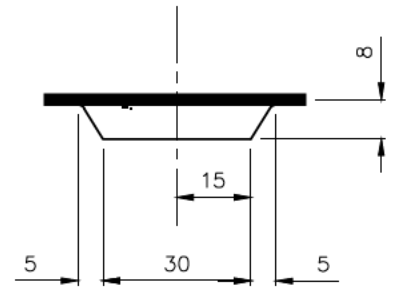


CONSTRUCTION STANDARDS		
Typical Pedestrian Ramp at Radius		
Designed By:	Approved: Kelly Wyatt	
Date: JAN/11	Scale: NTS	R-9A
Digital File: STDR-9A.dwg		

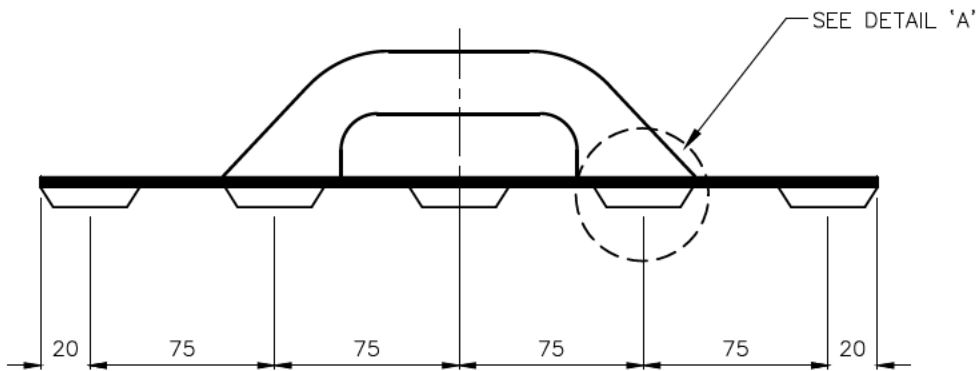




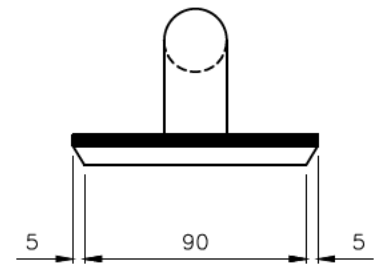
TOP VIEW



DETAIL 'A'



SIDE VIEW



END VIEW

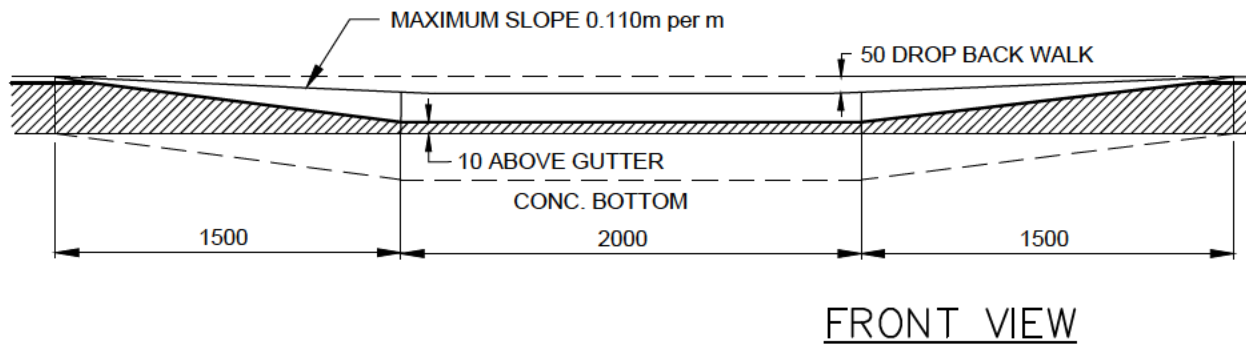
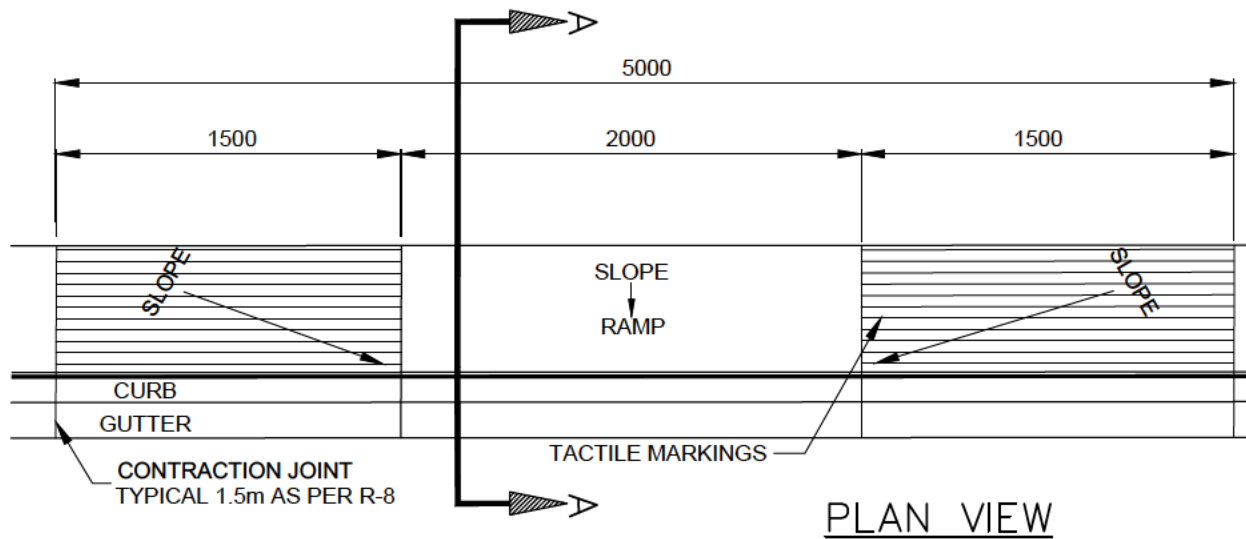
**NOTE:**

ALL DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

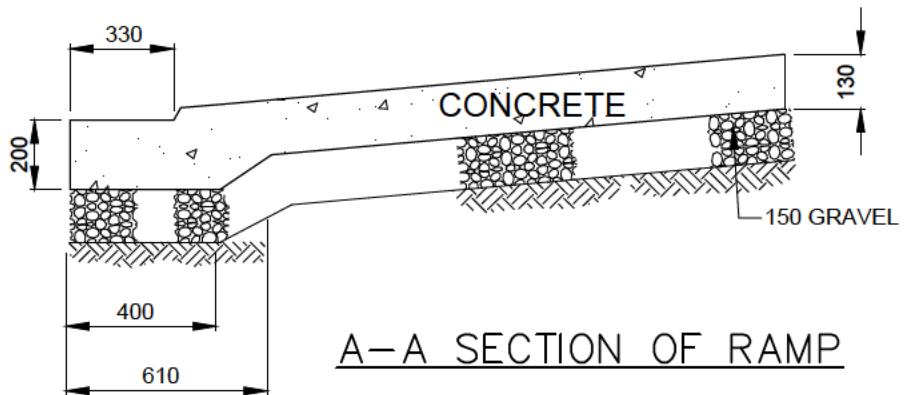


CONSTRUCTION STANDARDS		
Tactile Marking Tool		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-9B
Digital File: STDR-9B.dwg		



**NOTES:**

1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.
2. PATHWAY RAMPS TO BE LOCATED AT CENTER OF PATHWAY.
3. RED COLOURED PIGMENT TO BE ADDED TO CONCRETE SURFACE OF RAMP ONLY.



Date	Revisions	By
DEC/04	DEPTH OF LIP	J.H.
MAR/10	ADDED CONCRETE BOTTOM	M.J.
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
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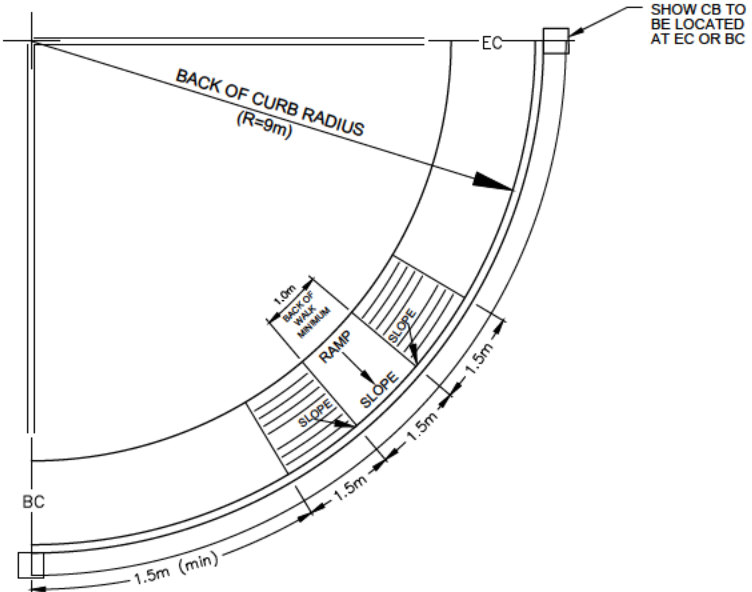
CONSTRUCTION STANDARDS  
**Typical Pathway Ramp  
at Mid-Block Crossing**

Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

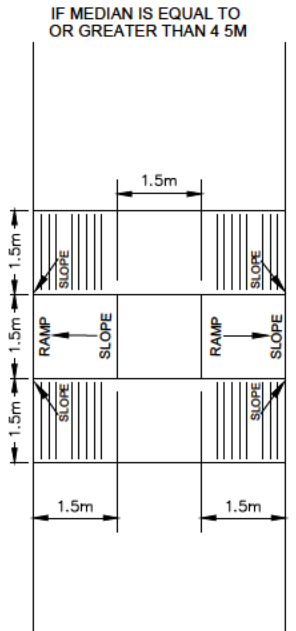
Date: **JAN/03** Scale: **NTS** **R-9C**

Digital File: **STDR-9C.dwg**

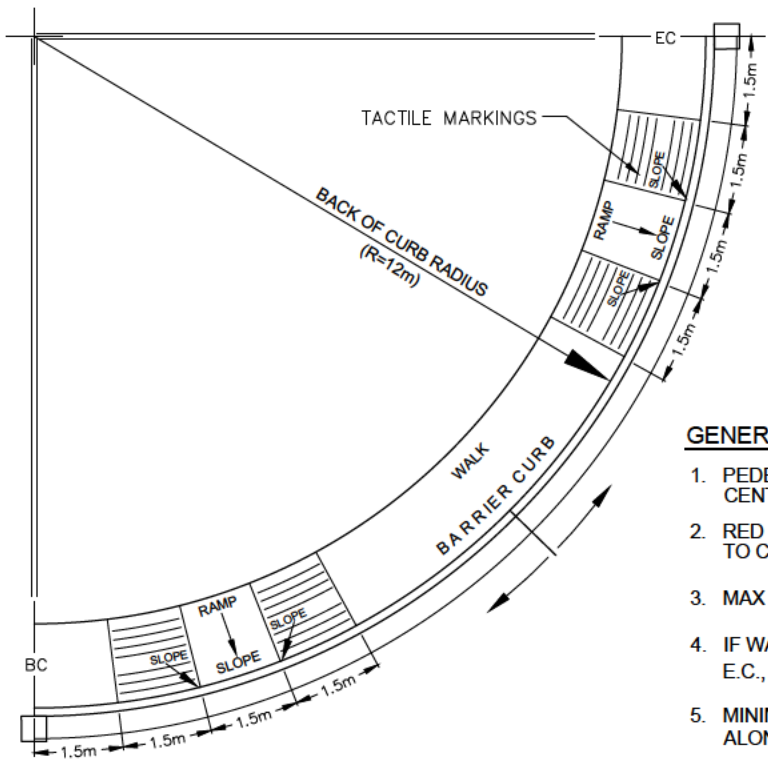
### SINGLE PED RAMP STANDARD DETAIL



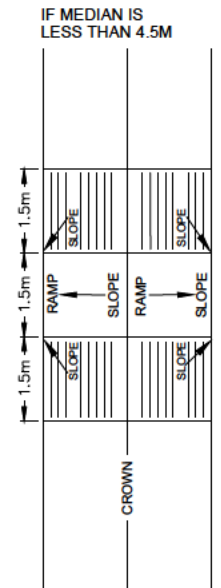
### MEDIAN PED RAMP DETAIL



### DOUBLE PED RAMP STANDARD DETAIL



### MEDIAN PED RAMP DETAIL



#### GENERAL NOTES:

1. PEDESTRIAN RAMPs TO BE LOCATED AT CENTER OF RADIUS FOR SINGLE STANDARD.
2. RED COLOURED PIGMENT TO BE ADDED TO CONCRETE SURFACE OF RAMP ONLY.
3. MAX SLOPE ON RAMPs IS 8%
4. IF WALK DOES NOT CONTINUE BEYOND E.C., TRUNCATE WALK AT E.C.
5. MINIMUM GRADIENT TO BE PROVIDED ALONG GUTTER IS 0.6% - 1%
6. CB'S SHOULD BE LOCATED A MINIMUM OF 1.5m FROM EDGE OF TAPERED/SCORED PANEL.

Date	Revisions	By
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

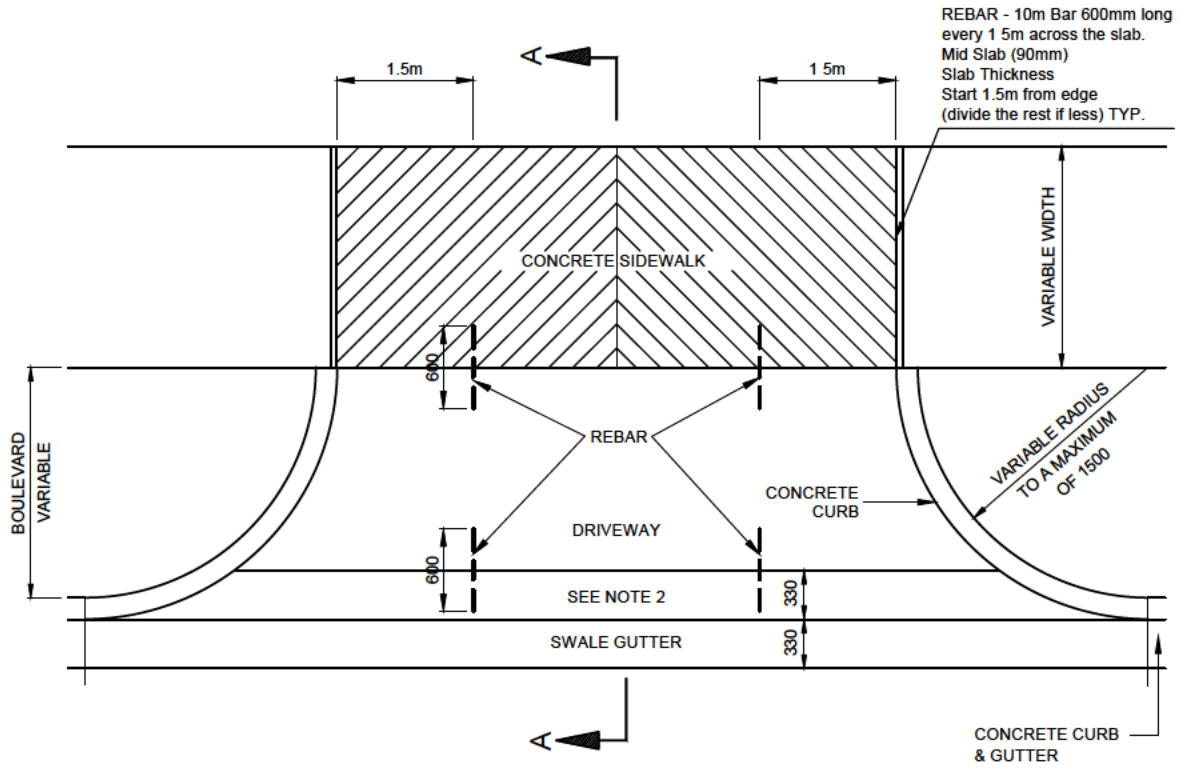
CONSTRUCTION STANDARDS  
**Typical Ped Ramp Details**

Designed By: \_\_\_\_\_ Approved: **Kelly Wyatt**

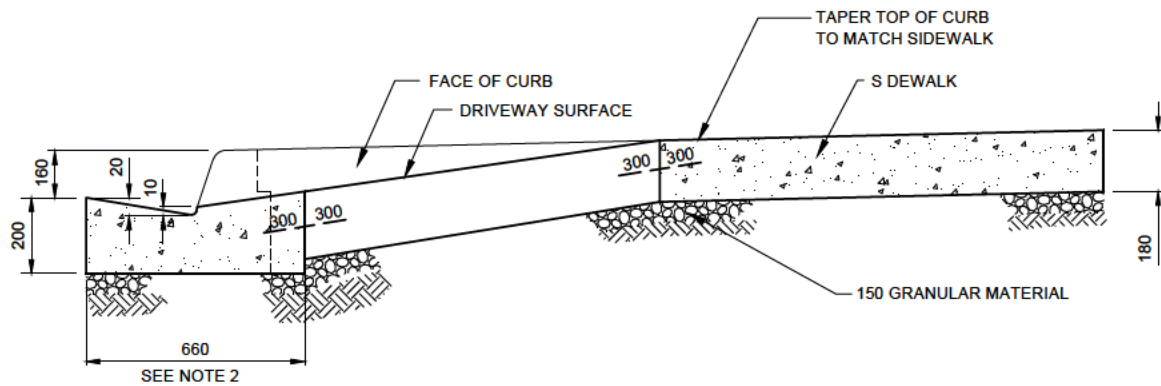
Date: **Jan/11** Scale: **NTS** **R-9D**

Digital File: **STDR-9D.dwg**





**PLAN VIEW**



**SECTION A-A**

**NOTE:**

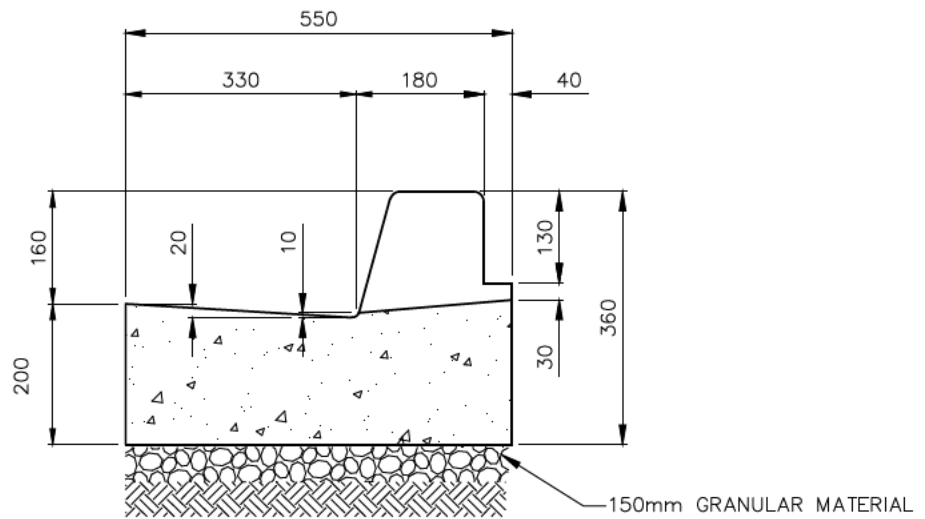
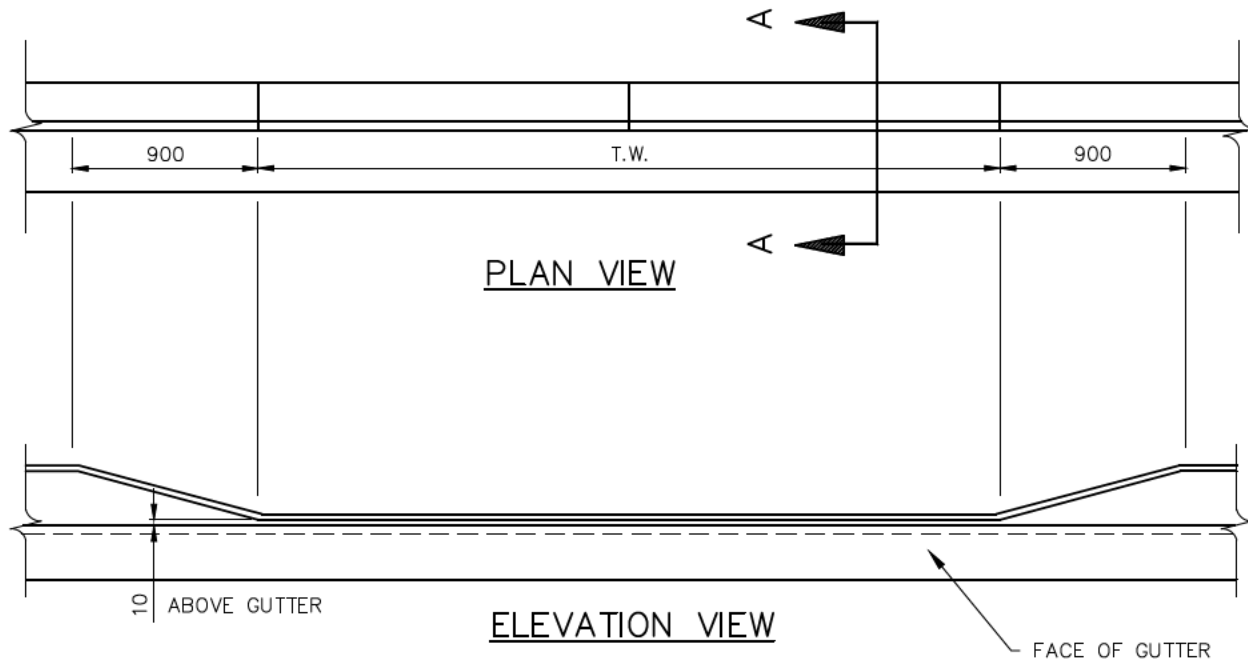
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. USE 550 SWALE IF BOULEVARD DRIVEWAY IS CONCRETE.
3. SEE DRAWING R-7A AND SECTION 2550 FOR LOCATION AND APPLICATION OF REINFORCING THROUGH COMMERCIAL AND INDUSTRIAL CROSSINGS.

Date	Revisions	By
JAN/03	GRANULAR MAT'L DEPTH; NOTE 3	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/06	NOTE 3	J.H.
DEC/08	ADDED REBAR	RAA
DEC/08	UPDATED DETAIL	RAA
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS  
**Curb and Gutter Crossing  
 with Boulevard**

Designed By:		Approved: Stella Madsen	
Date	Scale	R-10A	
MAR/09	NTS		
Digital File: STDR-10A.dwg			



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. SEE DRAWING R-4 AND SECTION 2550 FOR LOCATION OF REINFORCING AND DETAILED DIMENSIONS FOR CURB AND GUTTER.

Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/04	DEPTH OF LIP; NOTE	J.H.
JUL/10	TITLE BLOCK	JJA

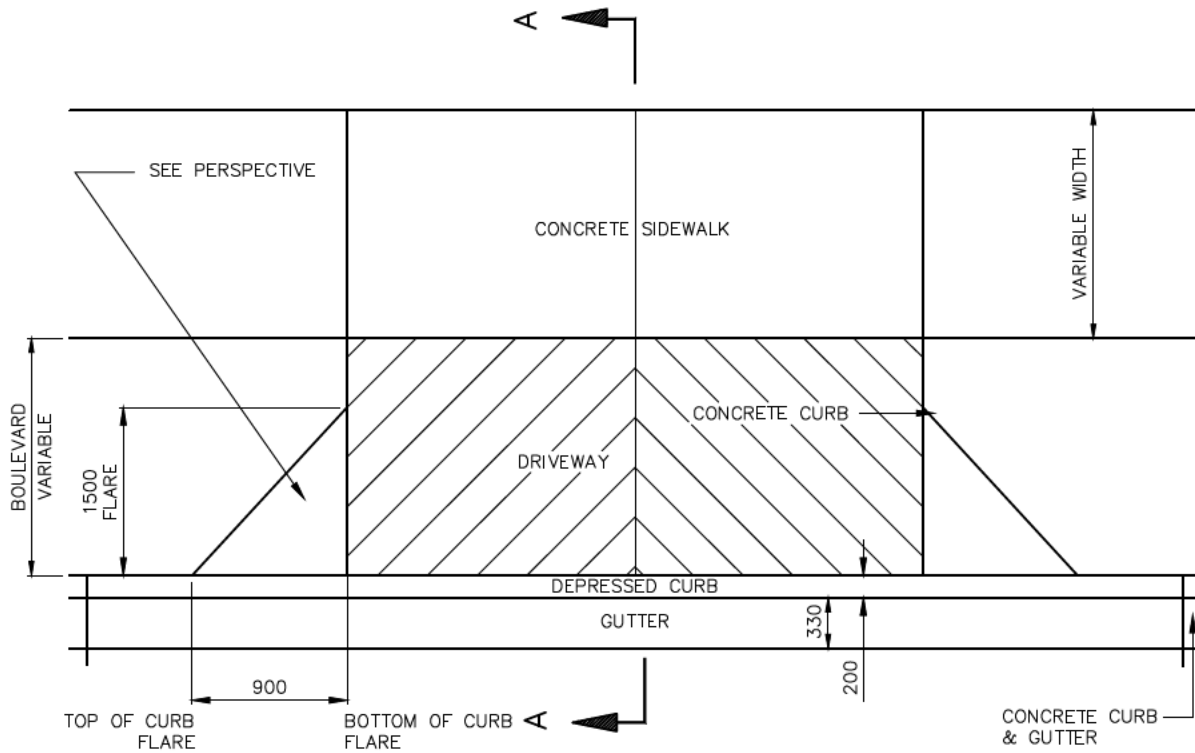
City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS  
**Concrete Curb and Gutter Crossing**

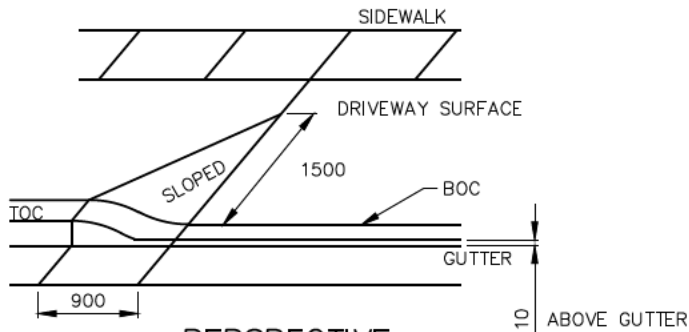
Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/01** Scale: **NTS** **R-10B**

Digital File: **STDR-10B.dwg**



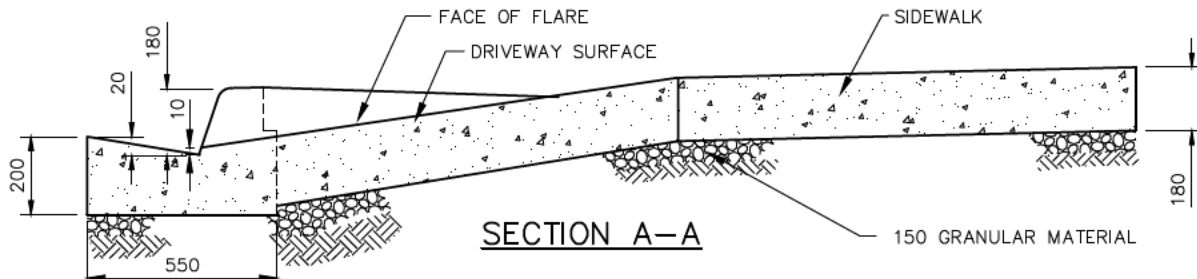
**PLAN VIEW**



**PERSPECTIVE**

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. TO BE USED ON STREETS THAT HAVE EXISTING BARRIER CURB.



Date	Revisions	By
JAN/03	GRANULAR MATERIAL DEPTH	J.H.
JAN/03	TITLE BLOCK	MLG
DEC/04	DEPTH OF LIP	J.H.
JUL/10	TITLE BLOCK	JJA

City of Regina



CONSTRUCTION STANDARDS

**Curb and Gutter**  
Residential Crossing with Boulevard

Designed By:

Approved:

Stella Madsen

Date

JAN/01

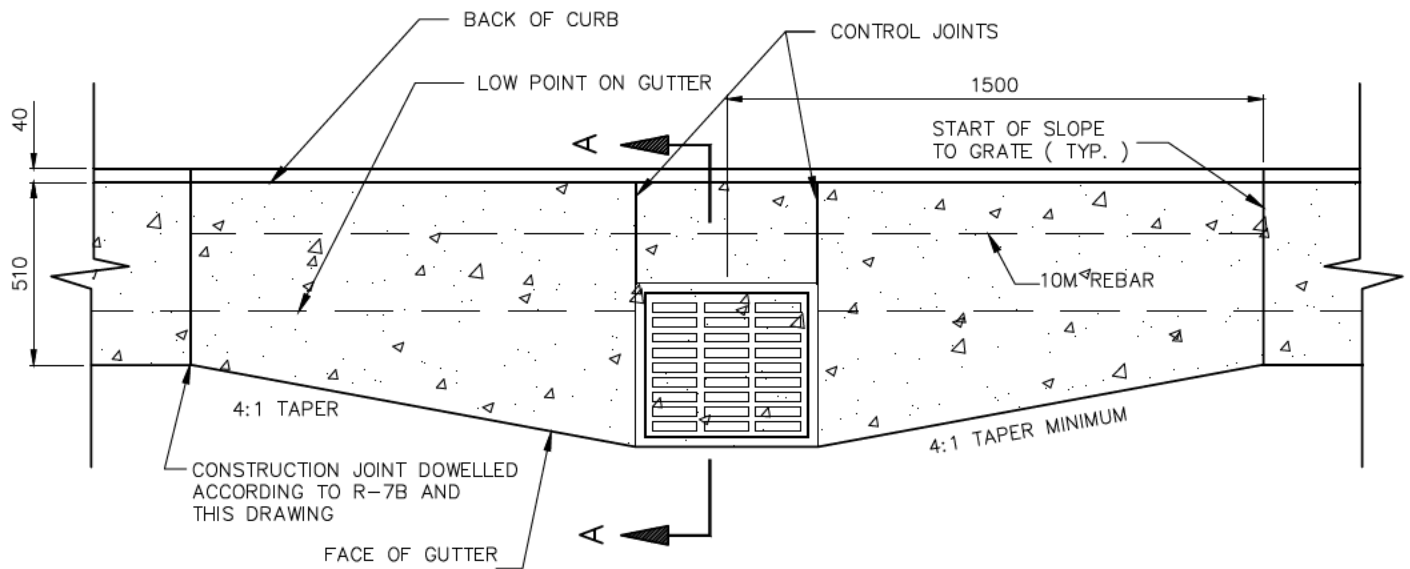
Scale

NTS

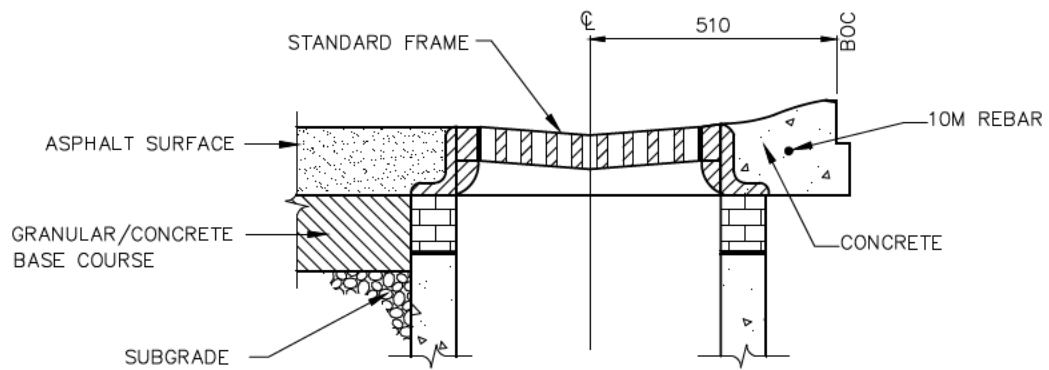
R-10C

Digital File

STDR-10C.dwg



## ROLLED CURB & GUTTER



## SECTION A-A

### NOTES:

1. UNITS SHOWN ARE MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	CONSTRUCTION JO NT	J.H.
JAN/03	TITLE BLOCK	MLG
FEB/10	ADD REBAR AND CONTROL JO NT	ELB
JUL/10	TITLE BLOCK	JJA

City of Regina



CONSTRUCTION STANDARDS  
Catch Basin Box-Out  
(Rolled Curb)

Designed By:

Approved:

Kelly Wyatt

Date

JAN/11

Scale

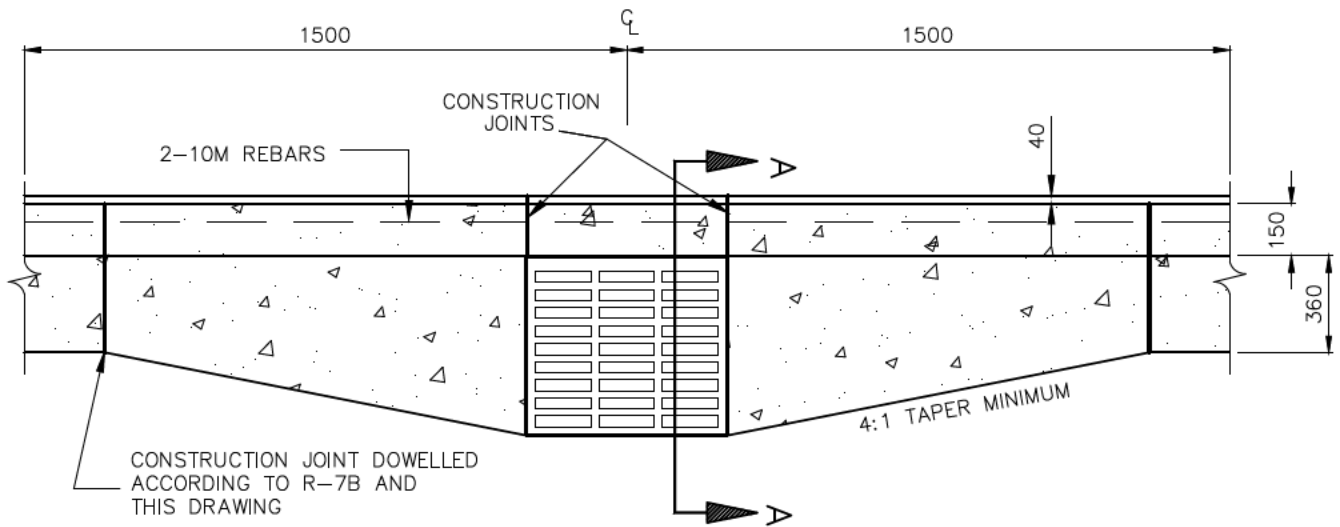
NTS

R-11

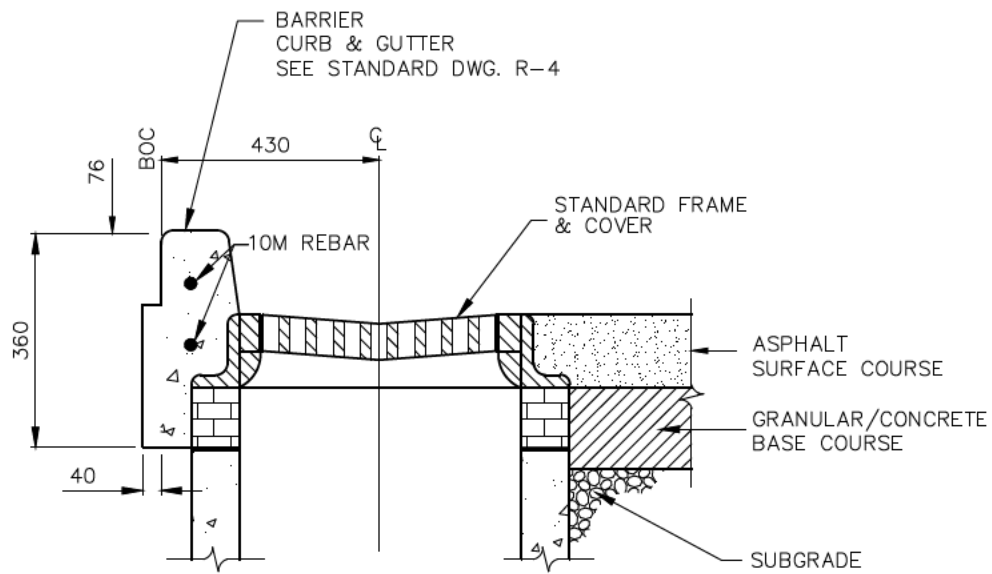
Digital File

STDR-11 dwg





**SECTION OF RAMP**



**SECTION A-A**

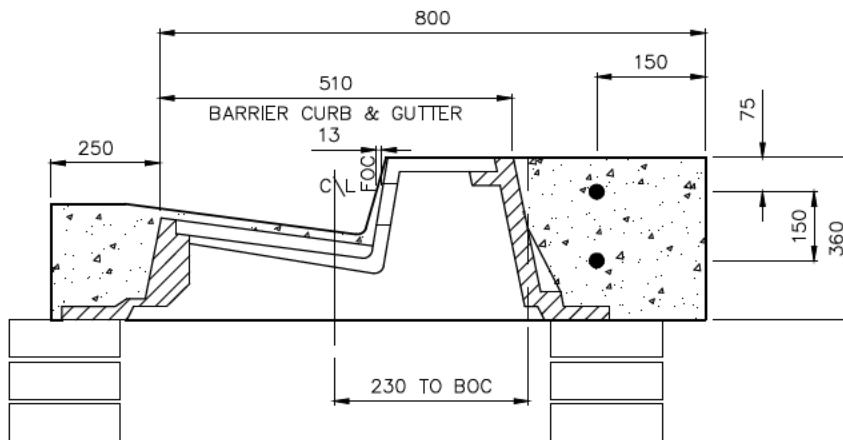
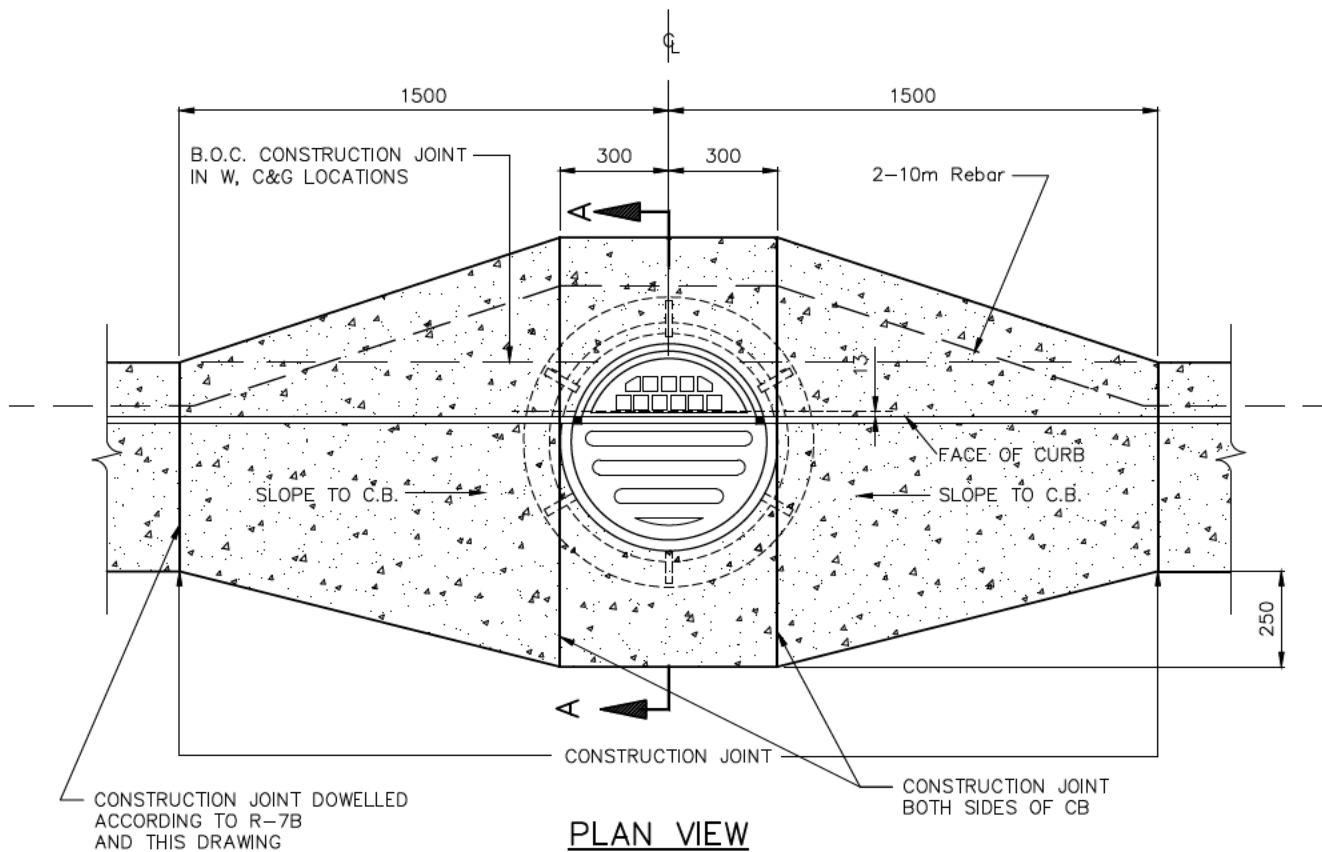
**NOTES:**

1. UNITS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	CONSTRUCTION JOINT; TAPER	J.H.
JAN/03	REBAR REMOVED	J.H.
JAN/03	TITLE BLOCK	MLG
MAR/10	ADDED REBAR	M.J.
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Catch Basin Box-Out (Barrier Curb and Gutter)</b>		
Designed By:		Approved: Kelly Wyatt
Date: JAN/11	Scale: NTS	R-11A
Digital File: STDR-11A.dwg		



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. BACK OF CURB REBAR REQUIRED FOR COLLECTOR AND ARTERIAL STREETS
3. CATCH BASIN TO BE SET BACK 13mm FROM THE FACE OF CURB.

Date	Revisions	By
JAN/03	CONSTRUCTION JOINT; TAPER	J.H.
JAN/03	BOX OUT AT F.O.G.	J.H.
JAN/03	TITLE BLOCK	MLG
JAN/05	REBAR ADDED	J.H.
FEB/10	CATCH BASIN SET BACK 13mm	M.J.
JUL/10	TITLE BLOCK	JJA

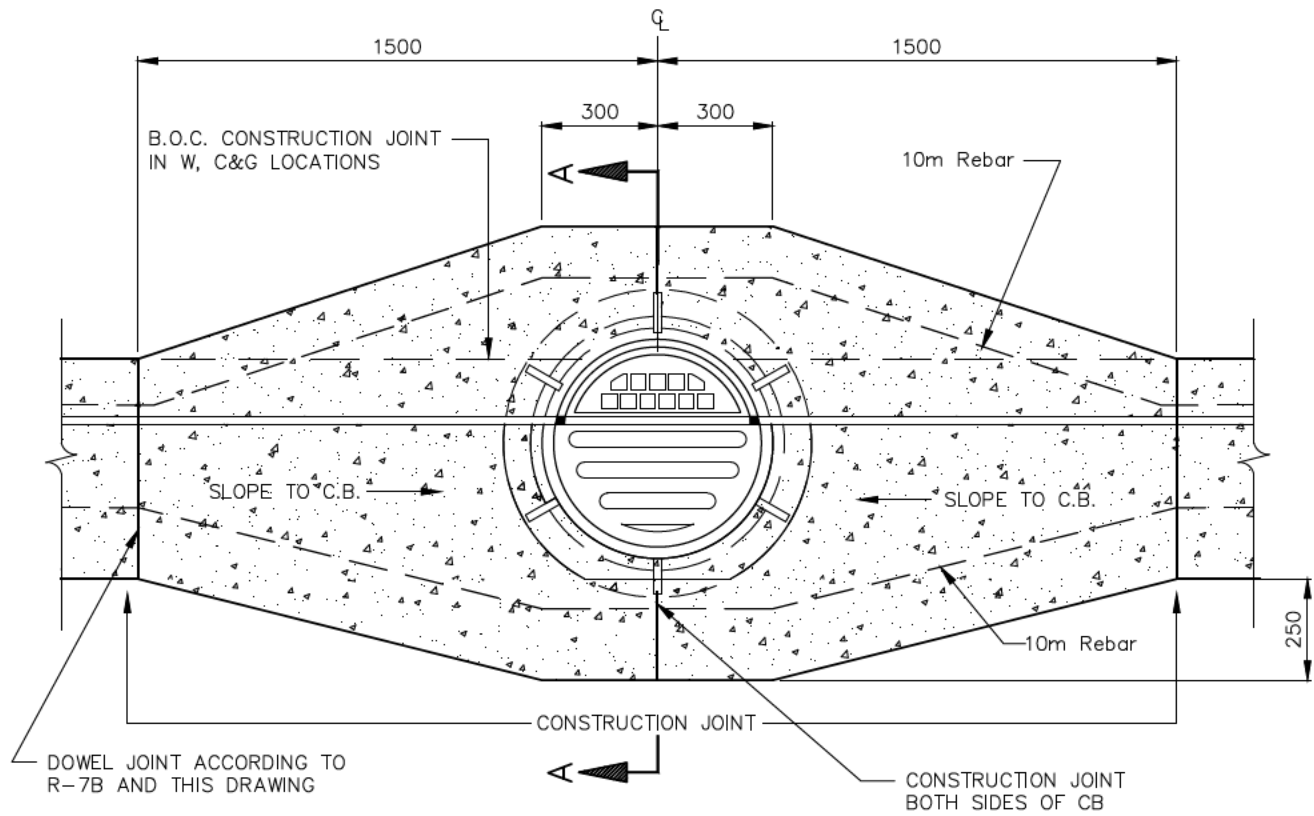
City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS  
**Box-Out for Side Inlet  
Cath Basins (Barrier Curb)**

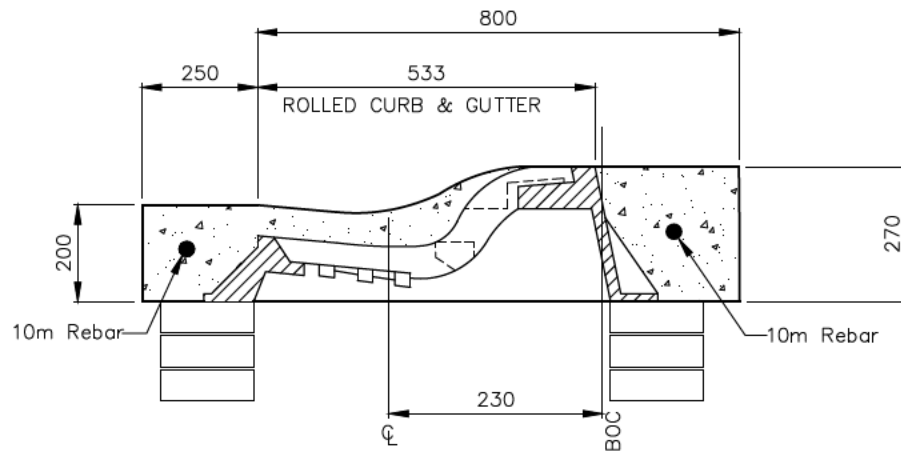
Designed By: \_\_\_\_\_ Approved: **Kelly Wyatt**

Date: **JAN/11** Scale: **NTS** **R-11B**

Digital File: **STDR-11B.dwg**



**PLAN VIEW**



**SECTION A-A**

**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	CONSTRUCTION JOINT; TAPER	J.H.
JAN/03	BOX OUT AT F.O.G.	J.H.
JAN/03	TITLE BLOCK	MLG
MAR/10	ADDED REBAR	M.J.
JUL/10	TITLE BLOCK	JJA

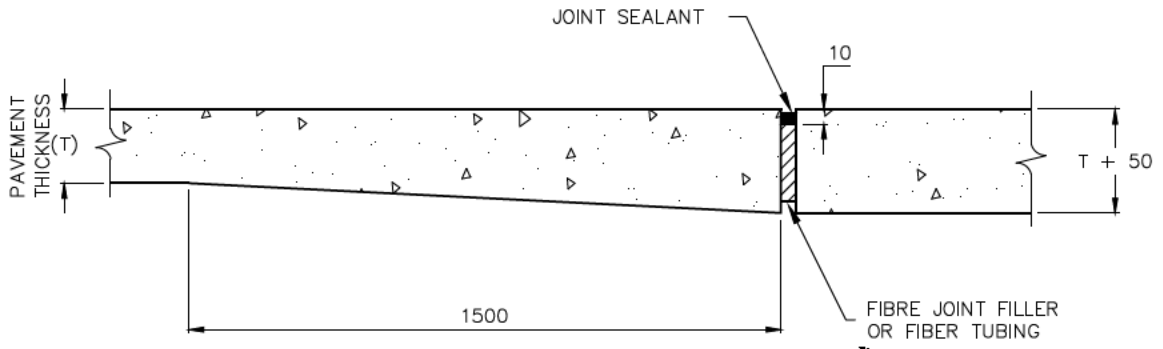
City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS  
**Box-Out for Side Inlet  
Catch Basins (Rolled Curb)**

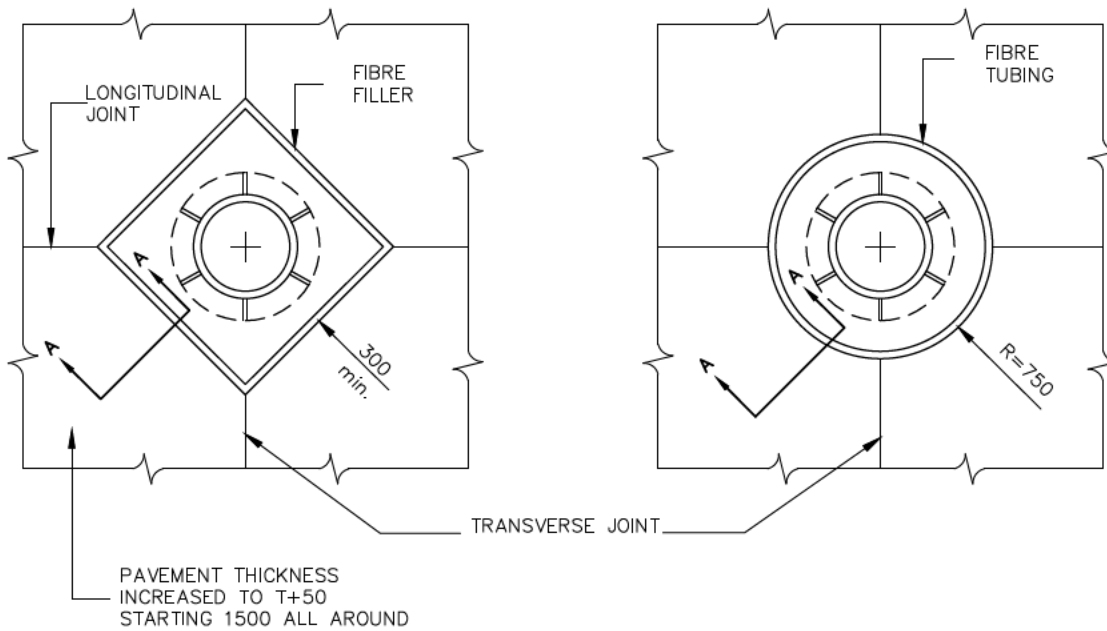
Designed By: \_\_\_\_\_ Approved: **Kelly Wyatt**

Date: **JAN/11** Scale: **NTS** **R-11C**

Digital File: **STDR-11C.dwg**



**SECTION A-A  
FOR MANHOLE**



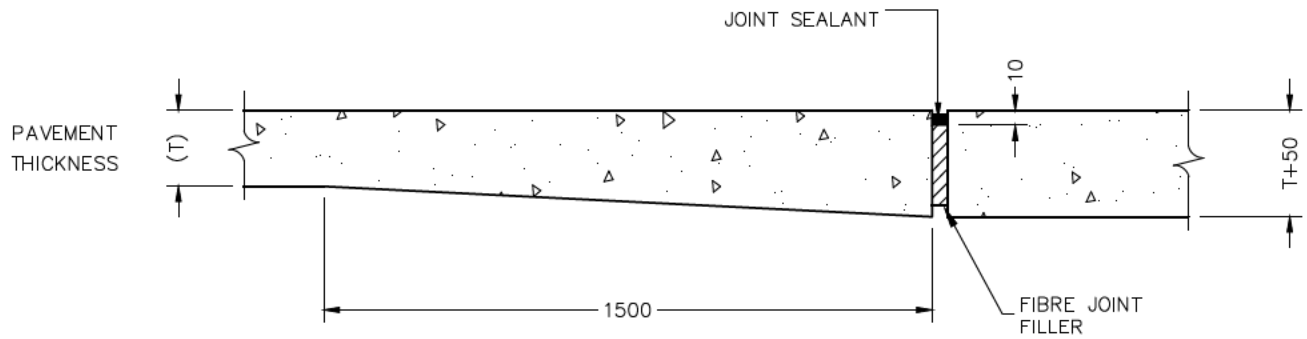
**NOTES:**

1. ALL MANHOLES SHALL BE ISOLATED FROM THE PAVEMENT BY BOXING OUT WITH EITHER RECTANGULAR OR CIRCULAR CONFIGURATION SHOWN ABOVE. JOINT FILLER MATERIAL SHALL EXTEND COMPLETELY THROUGH THE SLAB.
2. WHEN A TRANSVERSE JOINT FALLS WITHIN 1500 OR CONTACTS A MANHOLE, SHORTEN ONE OR MORE PANELS EITHER SIDE OF OPENING TO ASSURE JOINT IS ALIGNED WITH THE CENTER OF THE MANHOLE FRAME.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

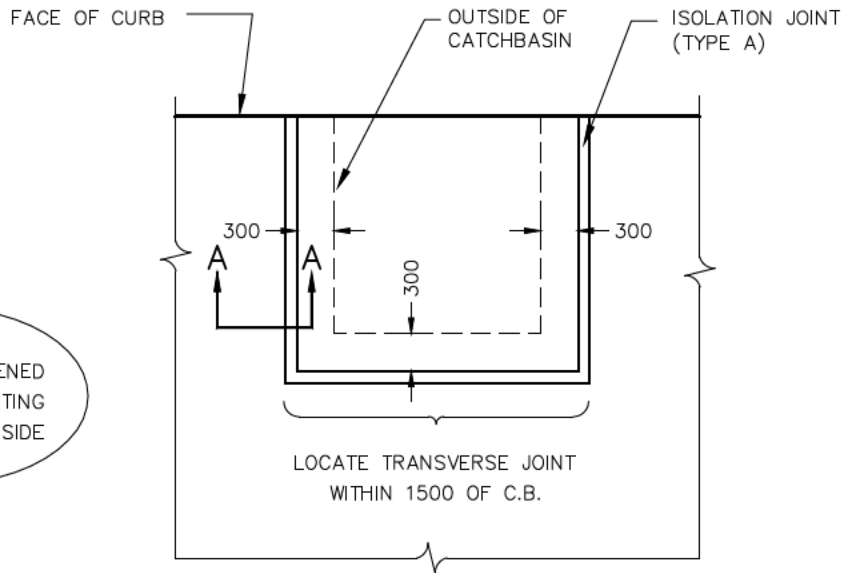


CONSTRUCTION STANDARDS		
<b>Concrete Pavement Manhole Isolation Detail</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-11D</b>
Digital File: <b>STDR-11D.dwg</b>		



SECTION A-A

ISOLATION JOINT FOR CATCH BASIN TYPE "A"



PAVEMENT THICKENED TO T+50 STARTING 1500 EACH SIDE

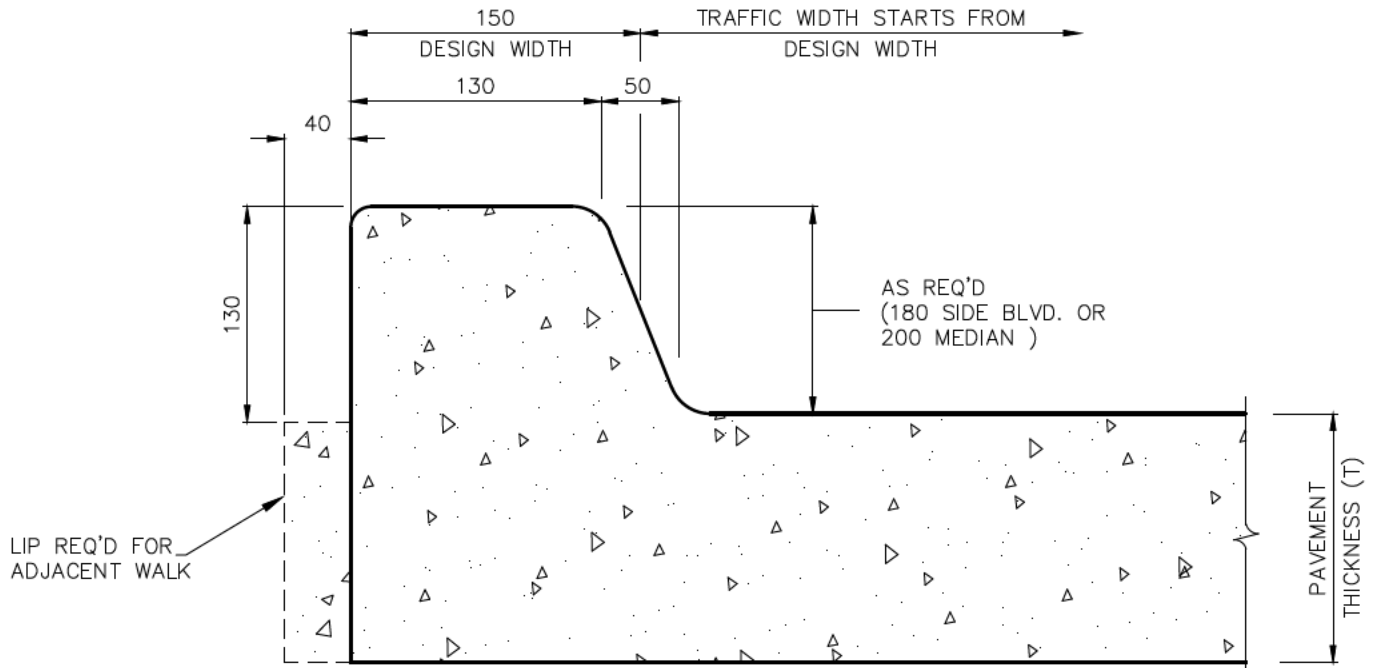
**NOTES:**

1. ALL CATCH BASINS SHALL BE ISOLATED FROM THE PAVEMENT AND CURB BY BOXING OUT AROUND AS SHOWN ABOVE. JOINT FILLER MATERIAL SHALL EXTEND COMPLETELY THROUGH CURB AND SLAB.
2. WHEN A JOINT FALLS WITHIN 1500 OF, OR CONTACTS CATCH BASINS OR OTHER STRUCTURES, SHORTEN ONE OR MORE PANELS EITHER SIDE OF OPENING TO ASSURE TRANSVERSE JOINT FALLS AT OR BETWEEN CORNERS OF ISOLATION BOX-OUT.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Catch Basin Isolation Detail</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-11E</b>
Digital File: <b>STDR-11E.dwg</b>		



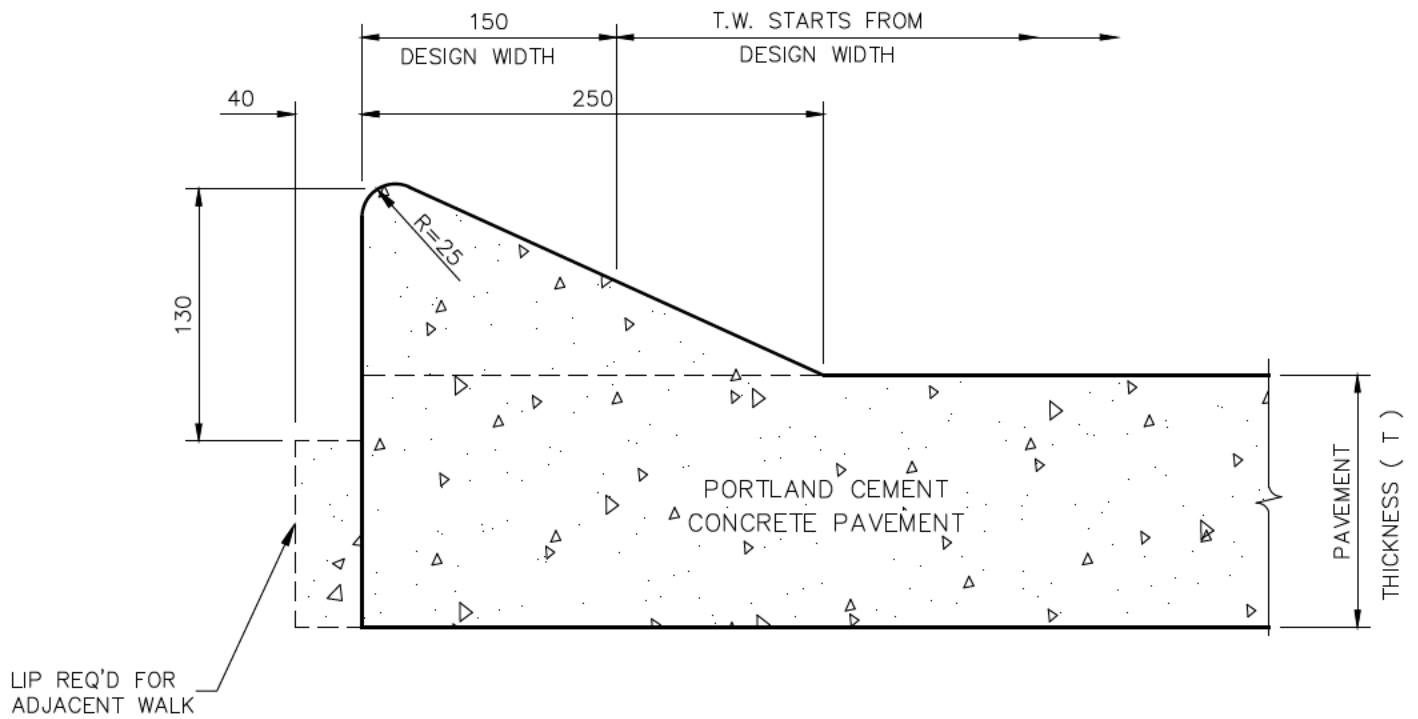
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Barrier Curb (Integral)</b>		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	<b>R-12</b>
Digital File: STDR-12.dwg		



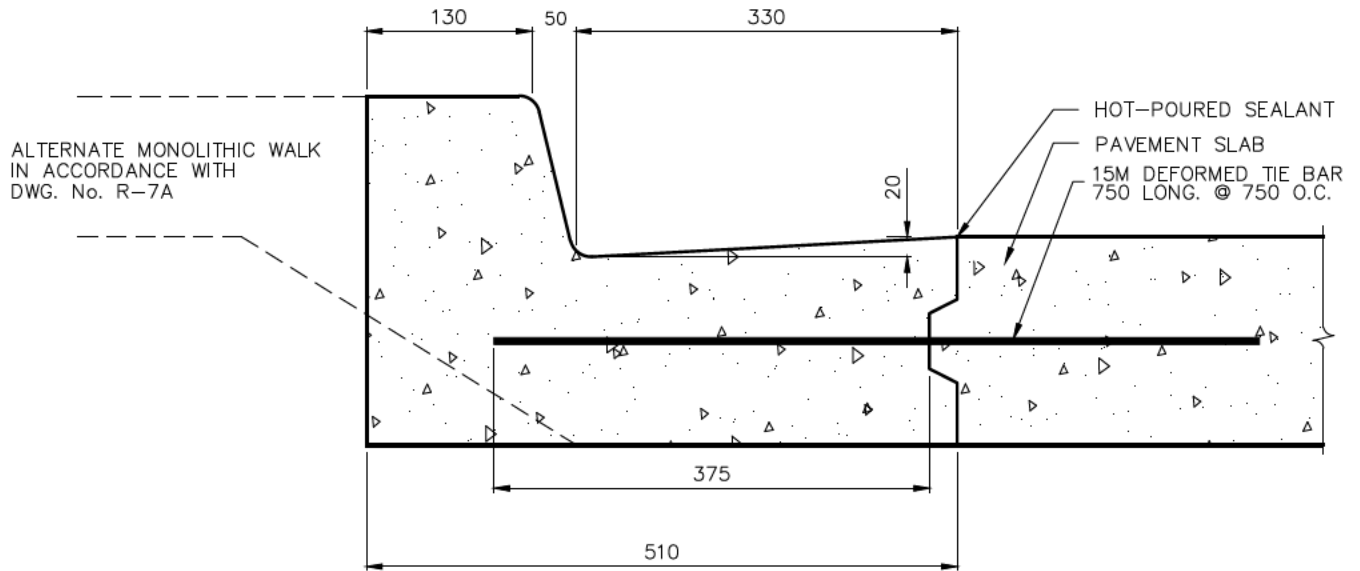
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

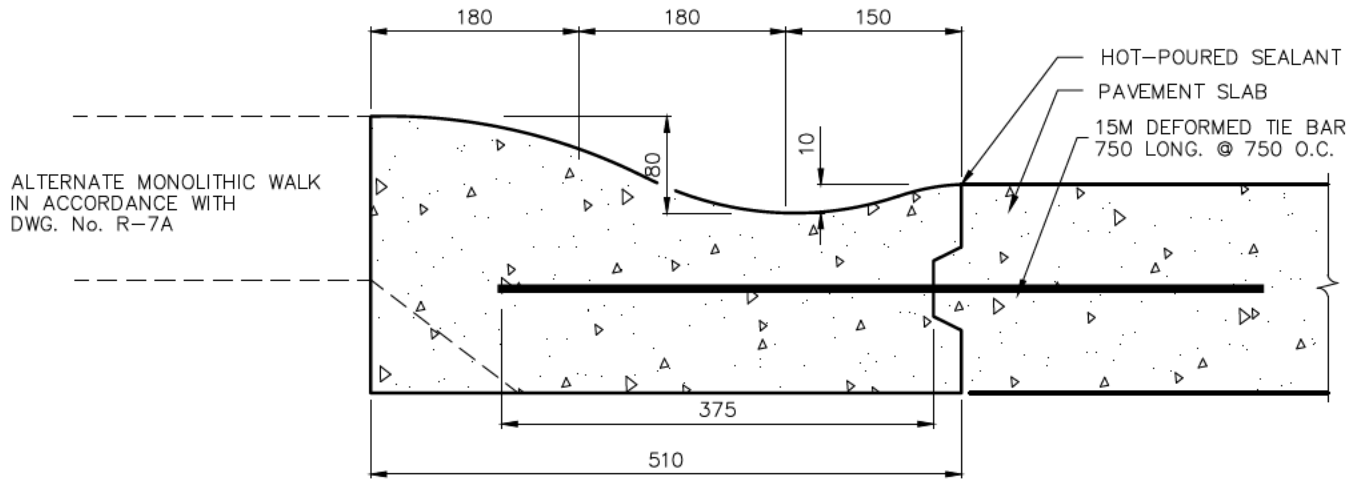
Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Lip Curb (Integral)</b>		
Designed By:		Approved: Stella Madsen
Date: JAN/98	Scale: NTS	<b>R-12A</b>
Digital File: STD-R-12A.dwg		



**BARRIER  
CURB & GUTTER**



**ROLLED  
CURB & GUTTER**

**NOTE:**

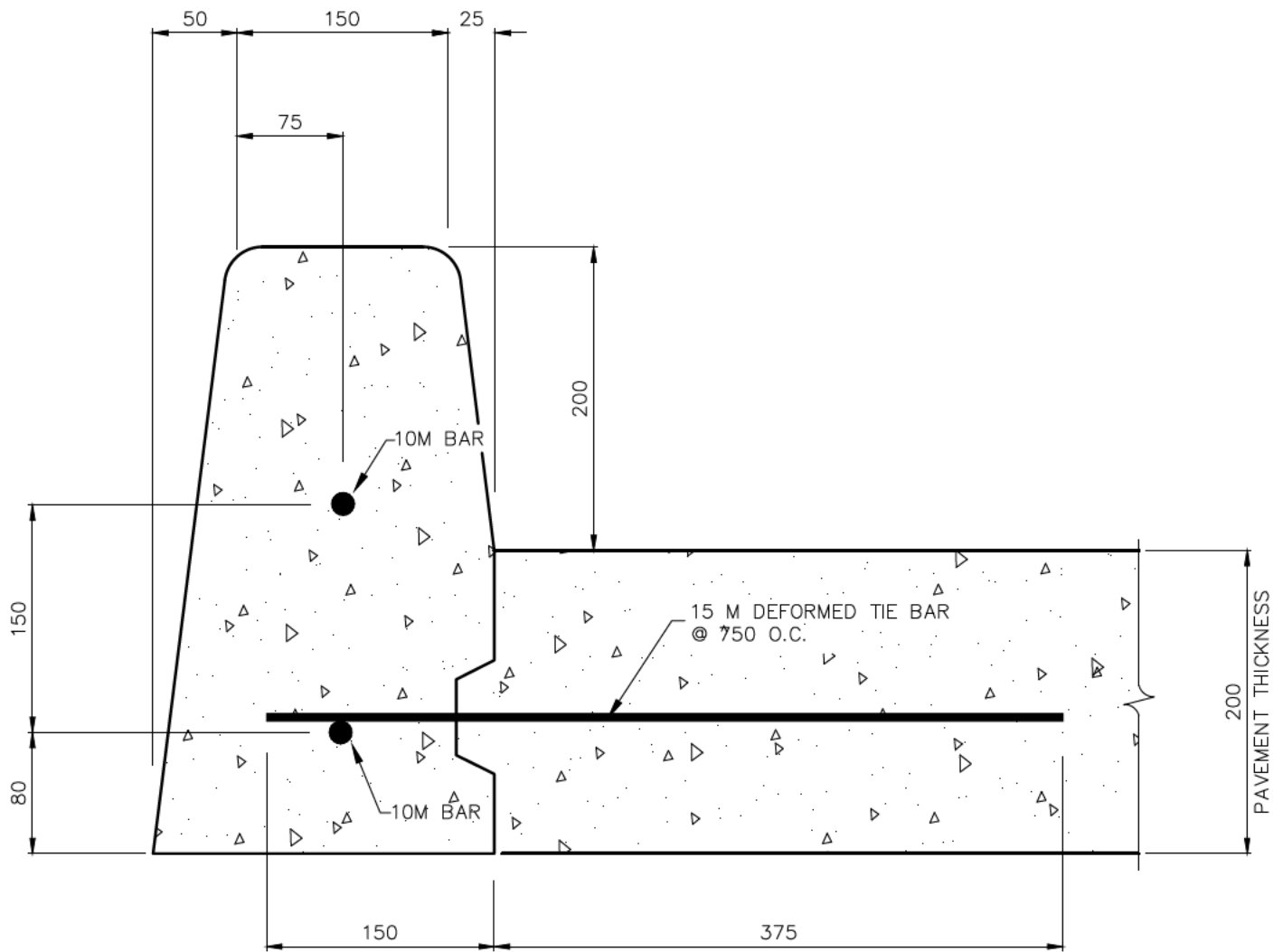
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Curb and Gutter Tie to Pavement</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date	Scale	<b>R-13</b>
JAN/98	NTS	
Digital File: <b>STDR-13.dwg</b>		





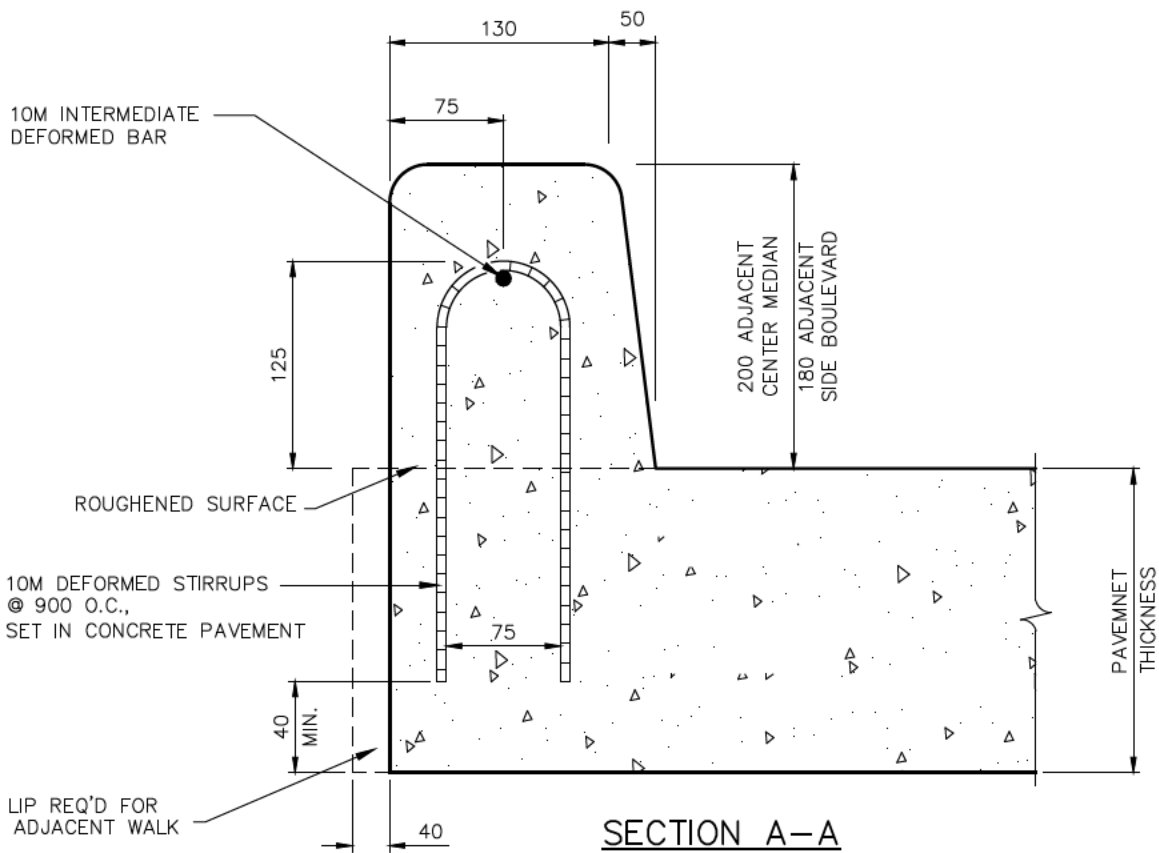
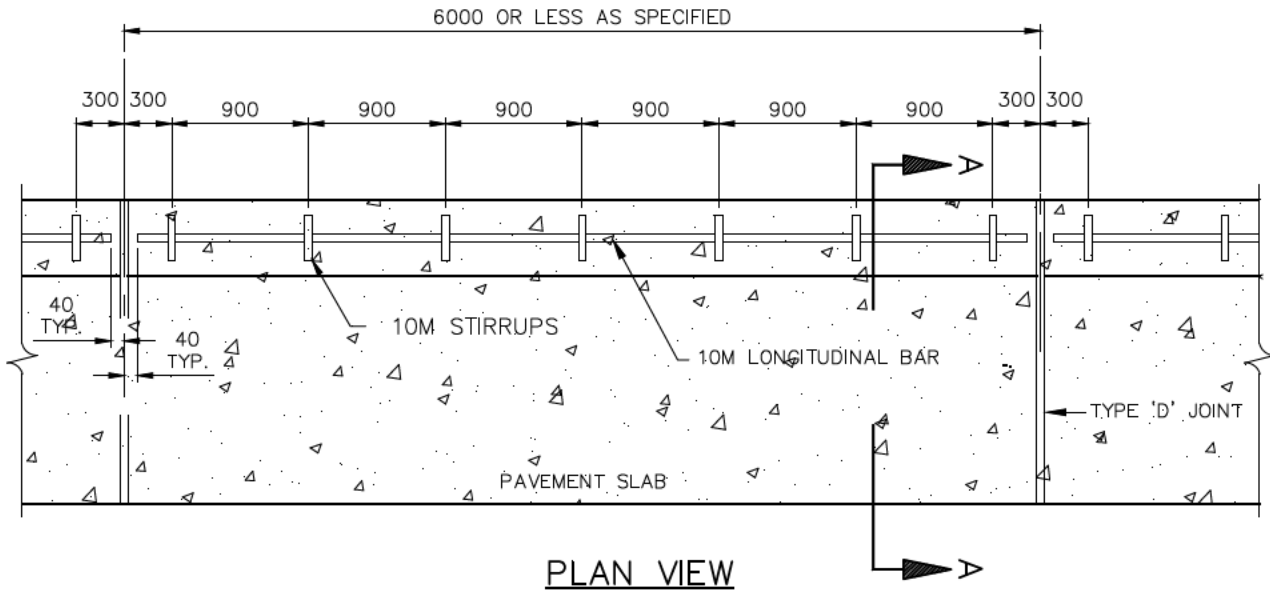
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | 

CONSTRUCTION STANDARDS		
<b>Concrete Pavement Barrier Curb Tie to Pavement</b>		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-13A
Digital File: STDR-13A.dwg		



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

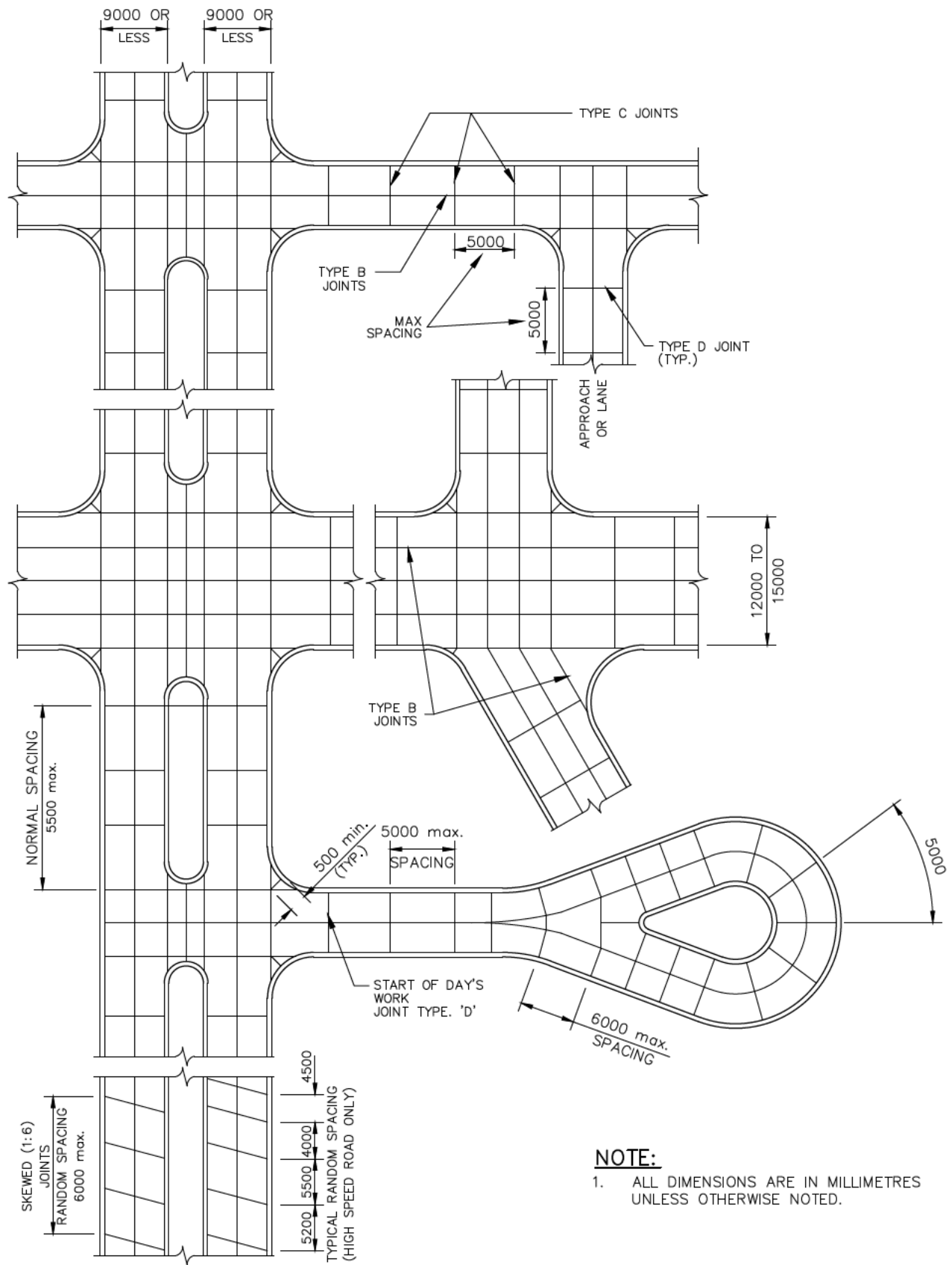
CONSTRUCTION STANDARDS

**Concrete Pavement Barrier Curb (Separate)**

Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/98** Scale: **NTS** **R-13B**

Digital File: **STDR-13B.dwg**



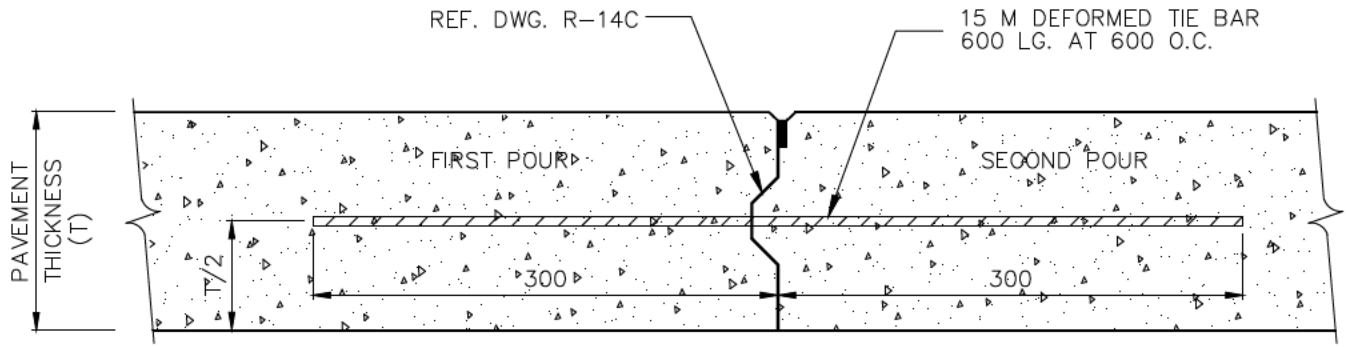
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

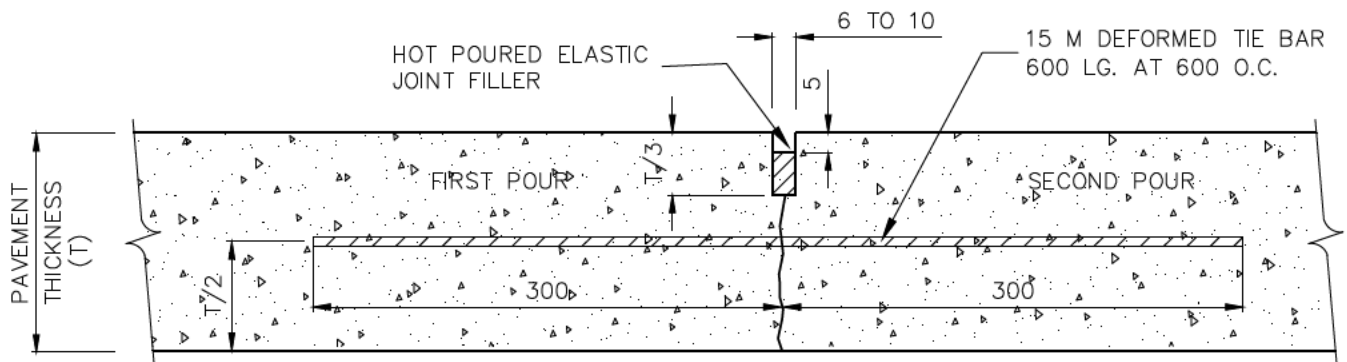
Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Typical Joint Arrangement</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date	Scale	<b>R-14</b>
JAN/98	NTS	
Digital File: <b>STDR-14 dwg</b>		



LANE-AT-A-TIME PAVING (B1)



FULL WIDTH PAVING (B2)

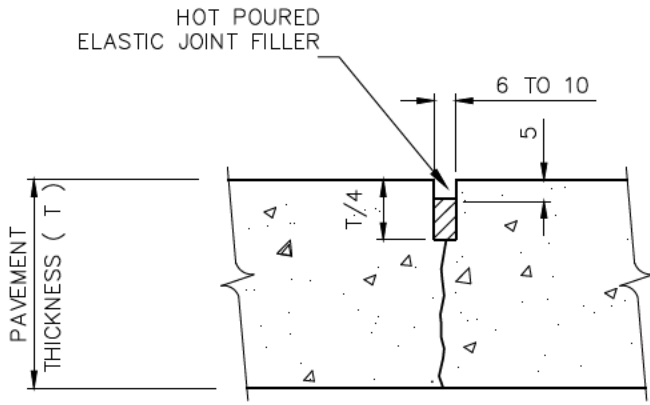
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

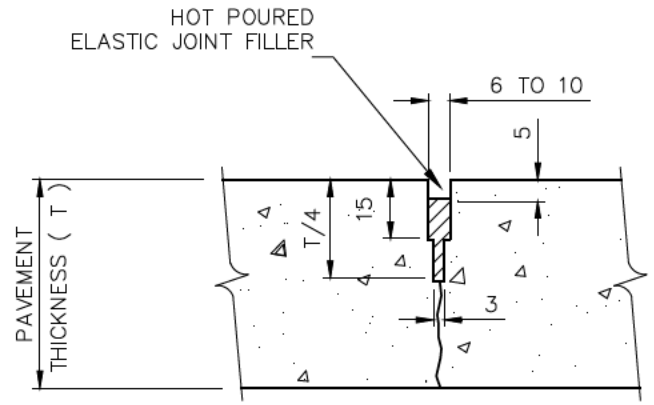
Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
Concrete Pavement		
Longitudinal Joints		
Designed By:	Approved: Stella Madsen	
Date: JAN/98	Scale: NTS	R-14A
Digital File: STDR-14A.dwg		

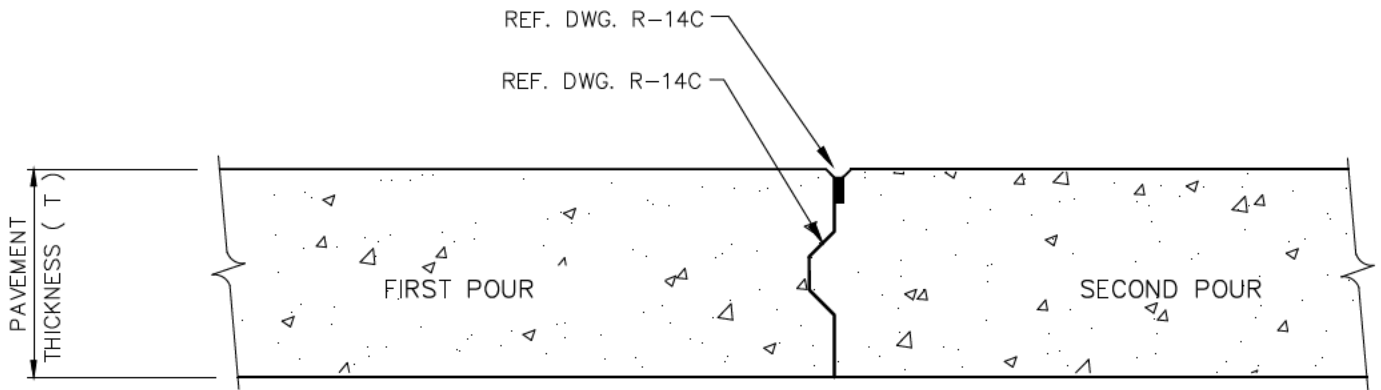


ALTERNATIVE 1



ALTERNATIVE 2

SAWED TRANSVERSE JOINT (TYPE 'C')



KEYED TRANSVERSE CONSTRUCTION JOINT ( TYPE 'D' )

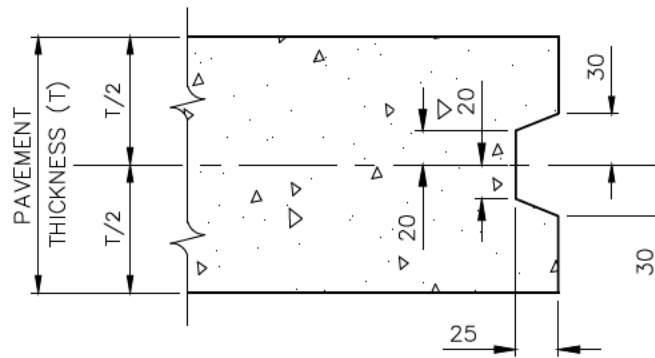
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. ALL TRANSVERSE JOINTS MUST EXTEND THROUGH CURB AND BE CONTINUOUS ACROSS PAVEMENT.

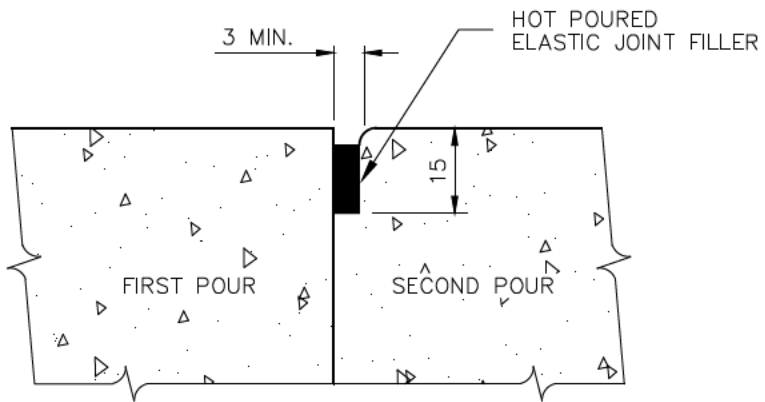
Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Transverse Joints</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-14B</b>
Digital File: <b>STDR-14B.dwg</b>		



KEYWAY DETAIL



TOOLED SEALANT RESERVOIR

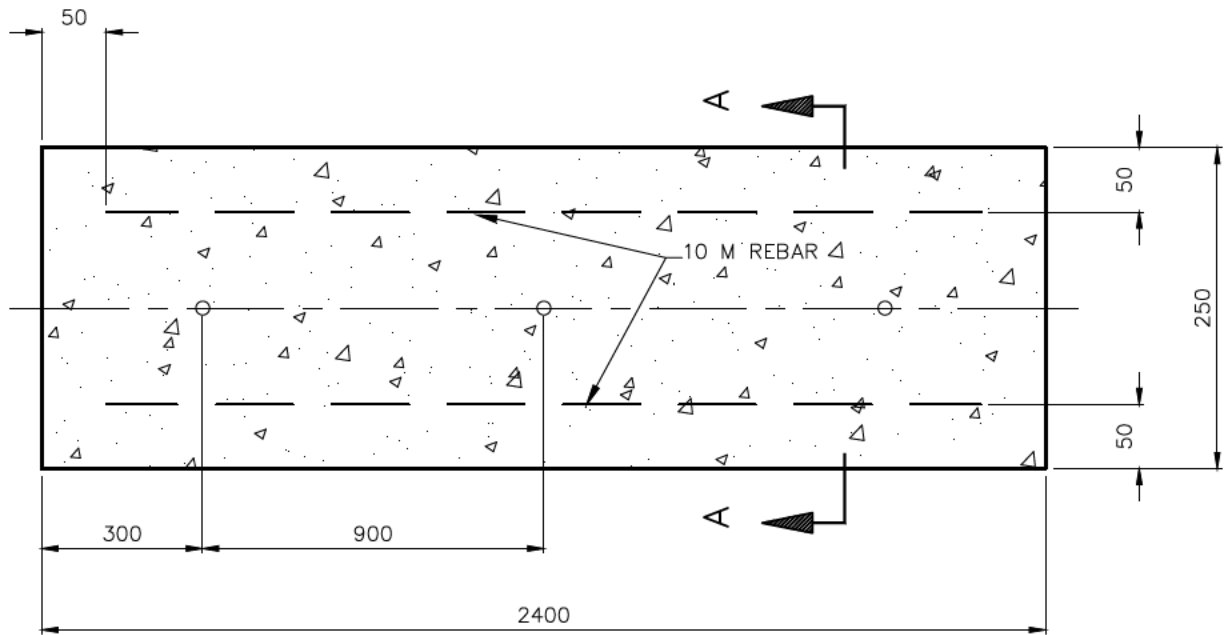
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. BOTH EDGES ARE HAND TOOLED WHILE CONCRETE IS STILL PLASTIC.

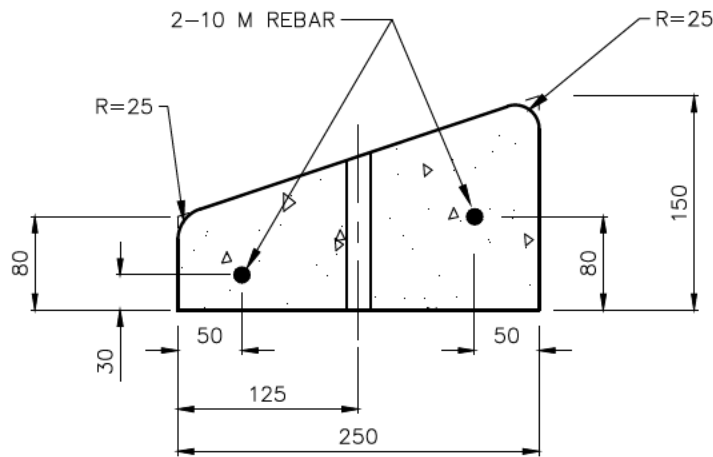
Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Concrete Pavement Joint Detail</b>		
Designed By:		Approved: <b>Stella Madsen</b>
Date	Scale	<b>R-14C</b>
JAN/98	NTS	
Digital File: <b>STDR-14C.dwg</b>		



PLAN OF CURB



SECTION A-A

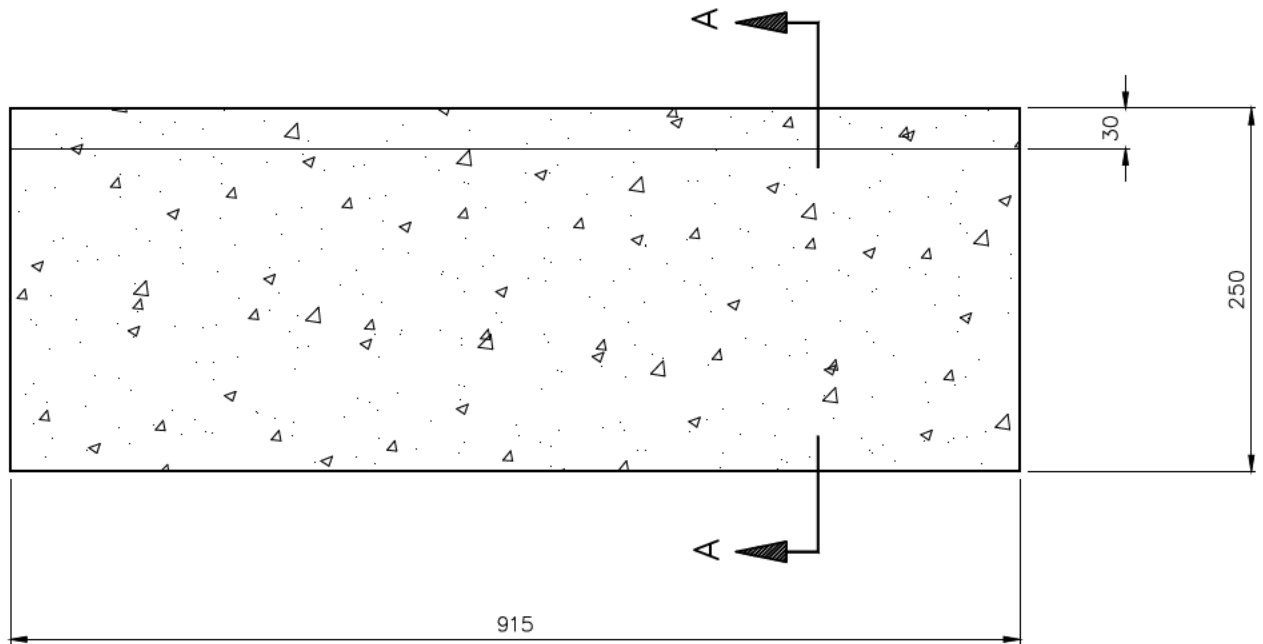
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CURBS SHALL BE SECURED TO THE FOUNDATION WITH EITHER DRIFT PINS OR EPOXY RESINS. PINS SHALL BE 16 $\phi$  x 380 LG., EACH. PIN SHALL HAVE A SHARP POINT & NO HEAD.

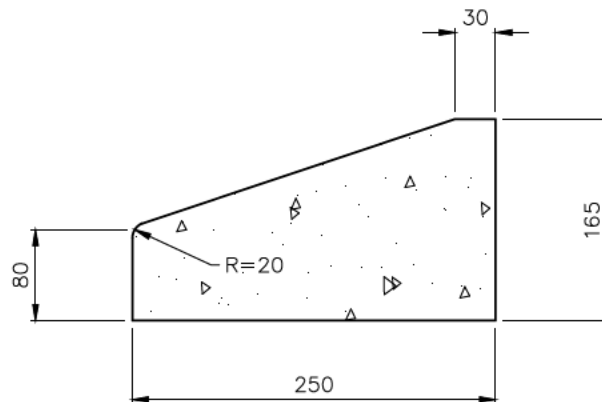
Date	Revisions	By
JAN/98	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Precast Concrete Curb</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-15</b>
Digital File: <b>STDR-15.dwg</b>		



PLAN OF CURB



SECTION A-A

NOTES:

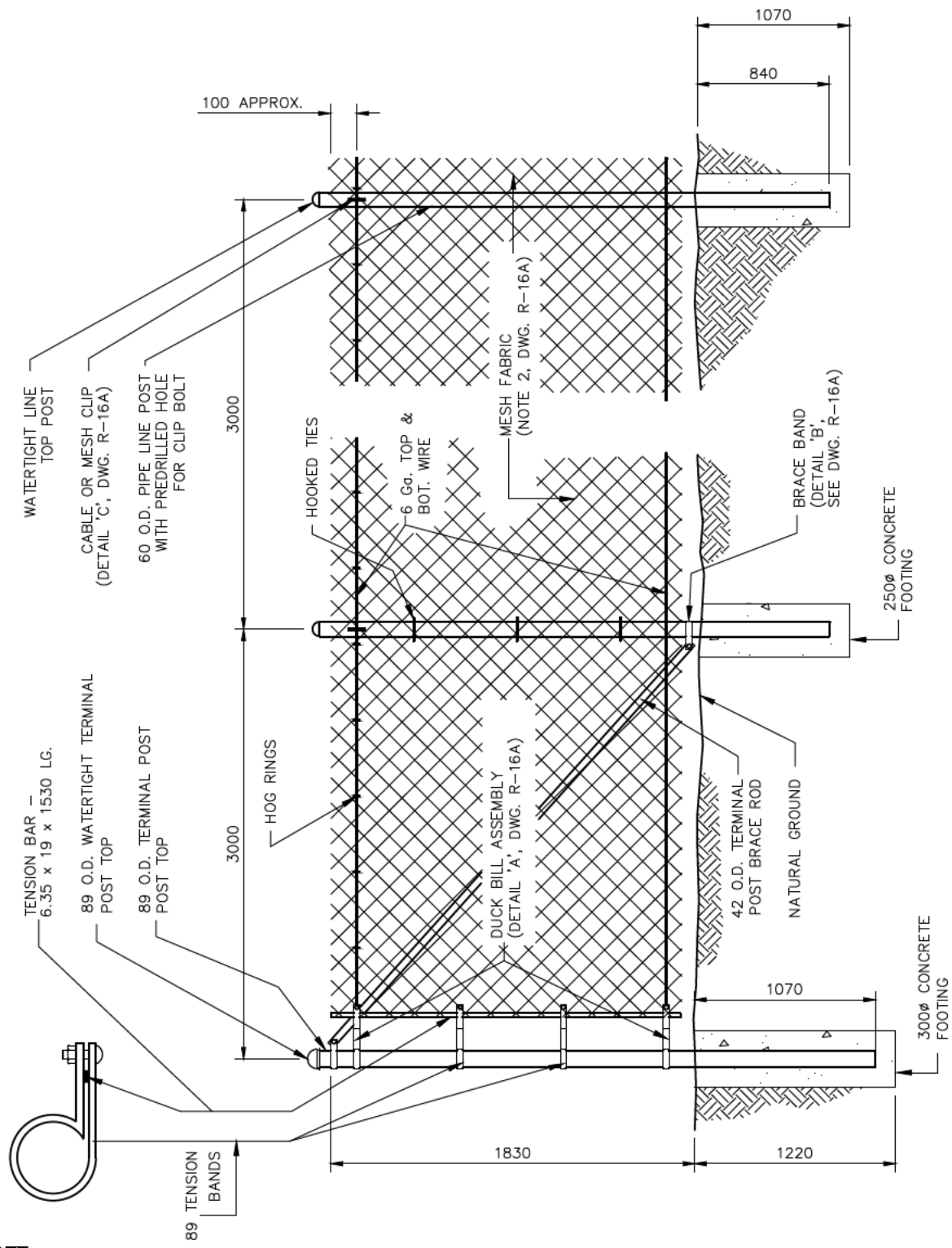
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CURBS SHALL BE SECURED TO THE FOUNDATION WITH EPOXY RESIN APPROVED BY THE ENGINEER.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Hydraulically Pressed Concrete Curb</b>		
Designed By:		Approved: <b>Stella Madsen</b>
Date	Scale	<b>R-15A</b>
JAN/98	NTS	
Digital File: <b>STDR-15A.dwg</b>		





**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

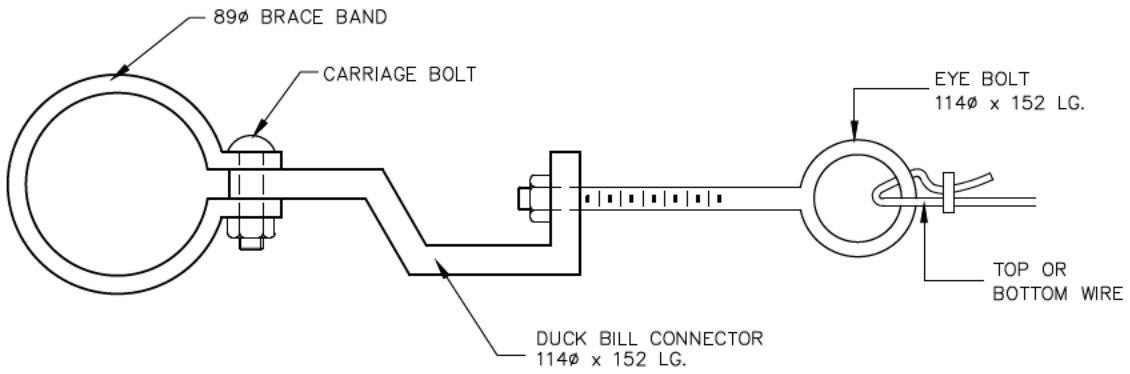
CONSTRUCTION STANDARDS

### Chain Link Fence Type "A"

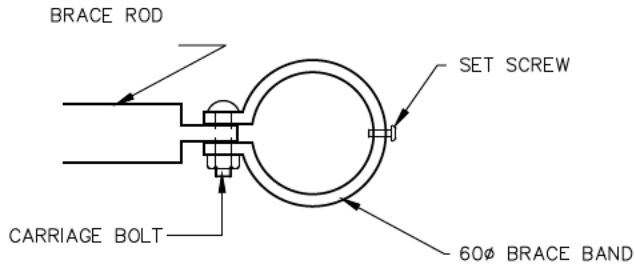
Designed By: \_\_\_\_\_ Approved: **Stella Madsen**

Date: **JAN/98** Scale: **NTS** **R-16**

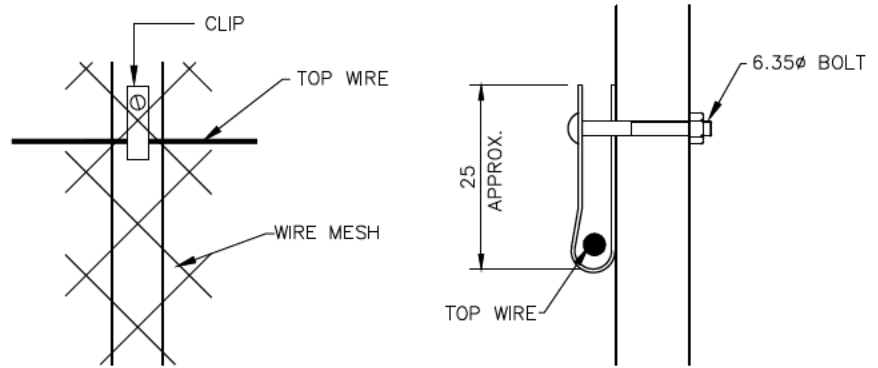
Digital File: **STDR-16.dwg**



**DETAIL "A" - DUCK BILL ASSEMBLY**



**DETAIL "B" CABLE OR MESH CLIP**



**DETAIL "C" BRACE BAND**

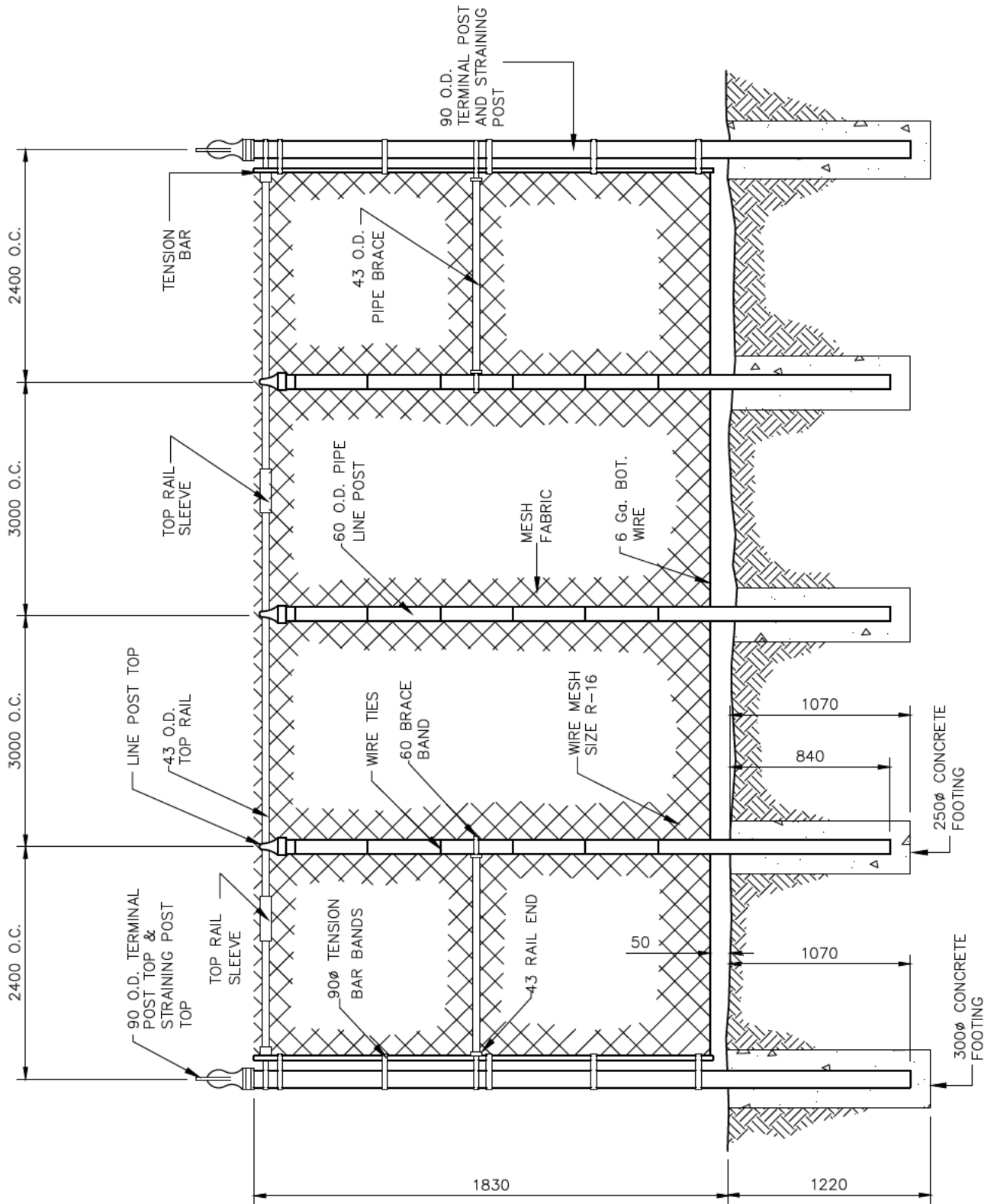
**NOTES:**

1. MAXIMUM SPACING BETWEEN BRACING SHALL BE 150 METRES
2. CHAIN LINK FENCE FABRIC SHALL BE 3.05 THICK. (9 GAUGE), 50 MESH UNLESS SPECIAL CIRCUMSTANCES MAKE A HEAVIER GAUGE DESIRABLE.
3. TOP WIRE ONLY IS TO BE THREADED THROUGH CLIPS WITH MESH ATTACHED TO WIRE.
4. CHAIN LINK FABRIC SHALL BE FASTENED AT NOT MORE THAN 350 ON LINE POSTS AND NOT MORE THAN 450 ON THE TOP AND BOTTOM WIRE.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Chain Link Fence Type "A" Banding Details</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-16A</b>
Digital File: <b>STDR-16A.dwg</b>		



**NOTE:**

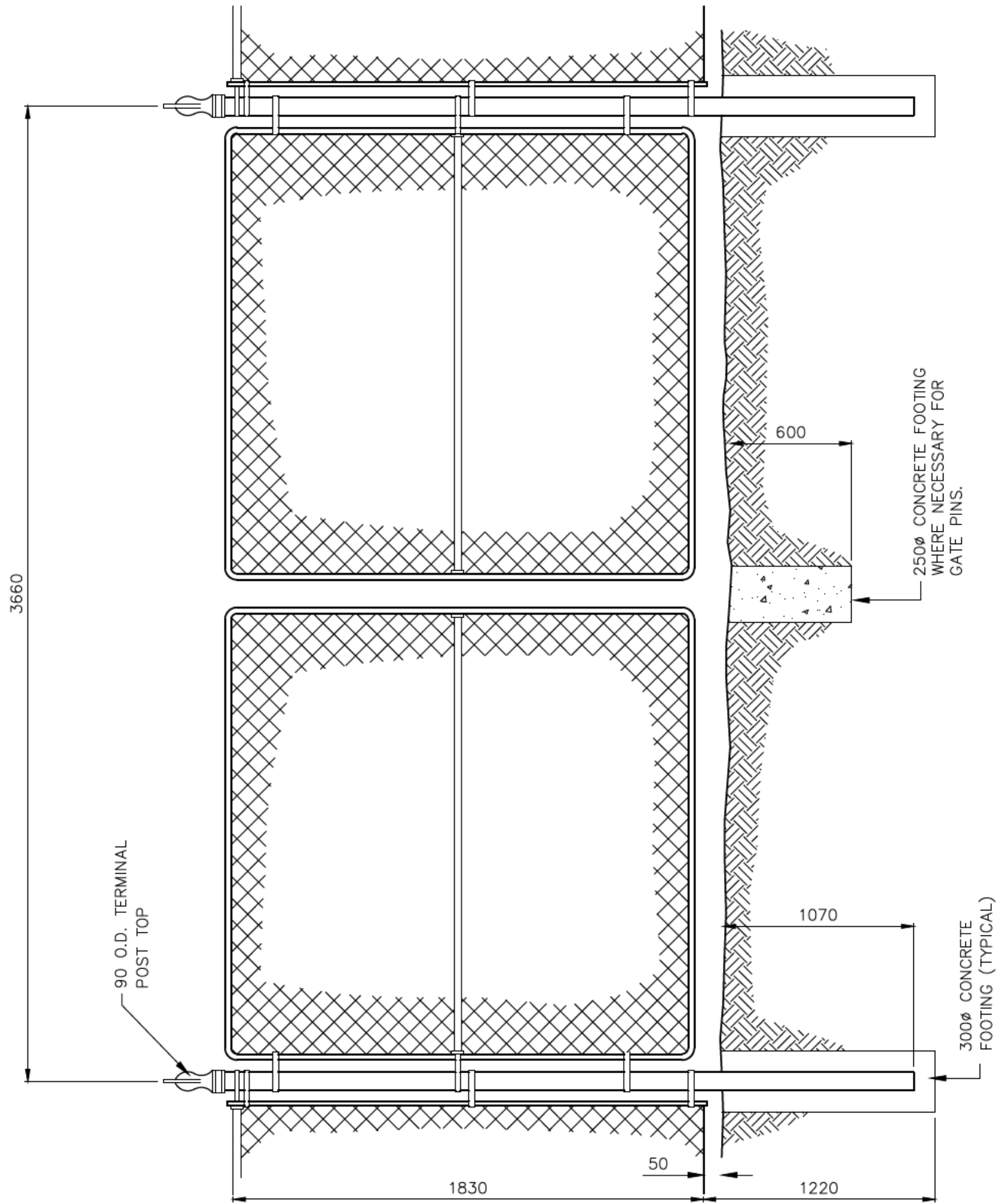
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS  
**Chain Link Fence  
Type "B"**

Designed By:	Approved:	Stella Madsen
Date	Scale	R-17A
JAN/98	NTS	
Digital File	STDR-17A.dwg	



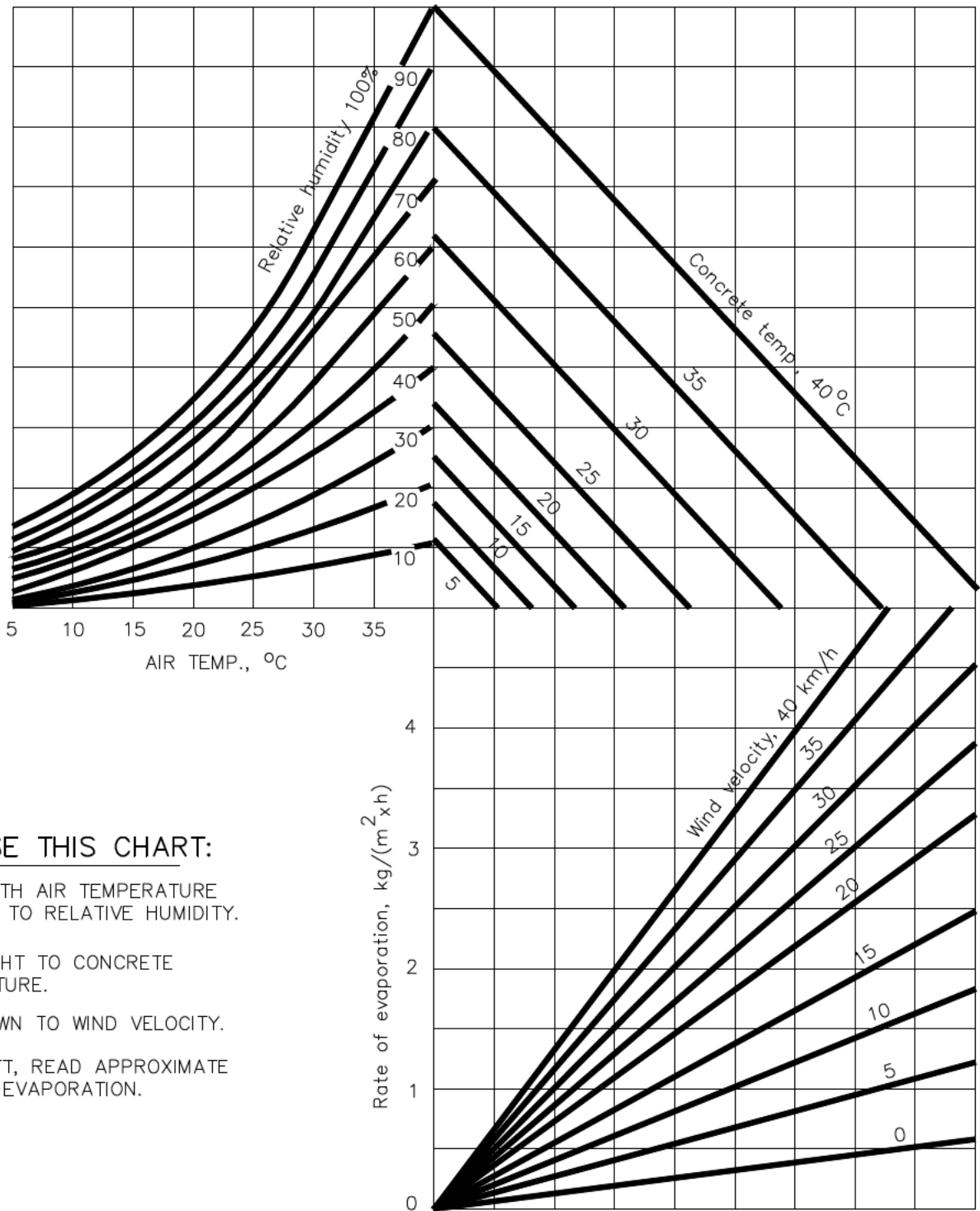
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

CONSTRUCTION STANDARDS		
<b>Gate Detail Type "B"</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date	Scale	<b>R-17B</b>
JAN/98	NTS	
Digital File: <b>STDR-17B.dwg</b>		



**TO USE THIS CHART:**

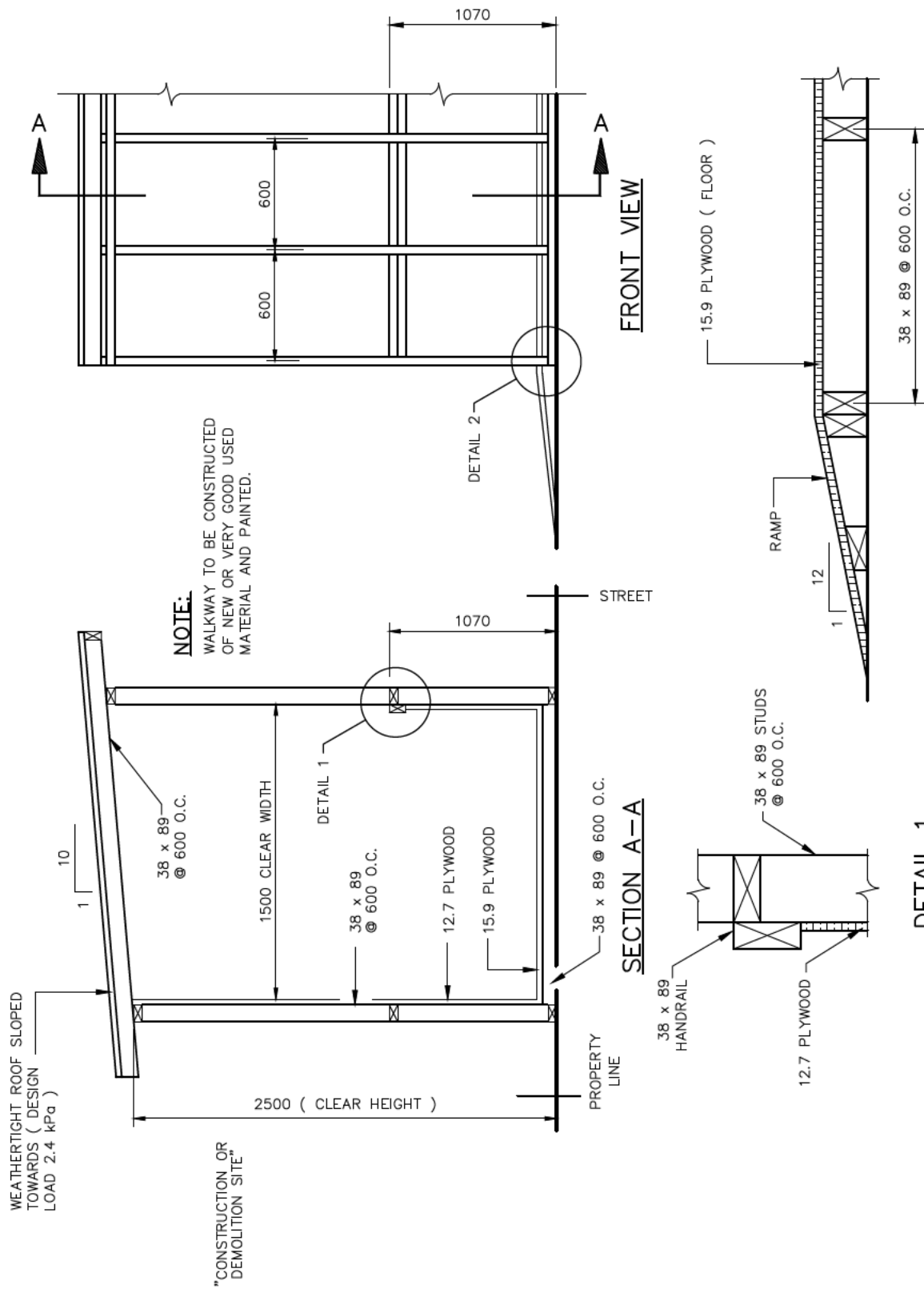
1. ENTER WITH AIR TEMPERATURE  
MOVE UP TO RELATIVE HUMIDITY.
2. MOVE RIGHT TO CONCRETE  
TEMPERATURE.
3. MOVE DOWN TO WIND VELOCITY.
4. MOVE LEFT, READ APPROXIMATE  
RATE OF EVAPORATION.

ADAPTED FROM: DESIGN AND CONTROL OF CONCRETE MIXTURES  
CANADIAN PORTLAND CEMENT ASSOCIATION  
CANADIAN METRIC EDITION 1984

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Rate of Evaporation Nomograph</b>		
Designed By:	Approved: <b>Stella Madsen</b>	
Date: <b>JAN/98</b>	Scale: <b>NTS</b>	<b>R-18</b>
Digital File: <b>STDR-18.dwg</b>		



**NOTE:**  
WALKWAY TO BE CONSTRUCTED OF NEW OR VERY GOOD USED MATERIAL AND PAINTED.

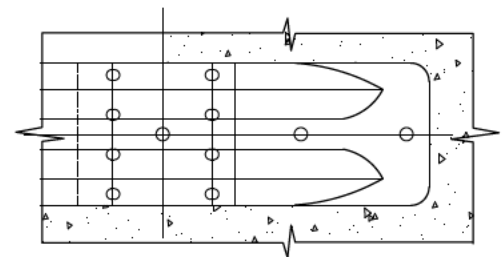
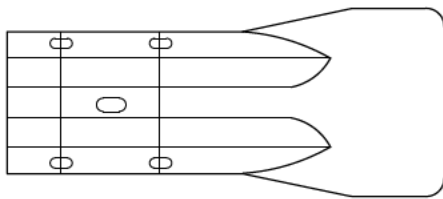
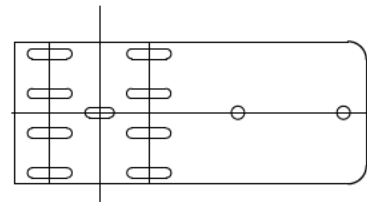
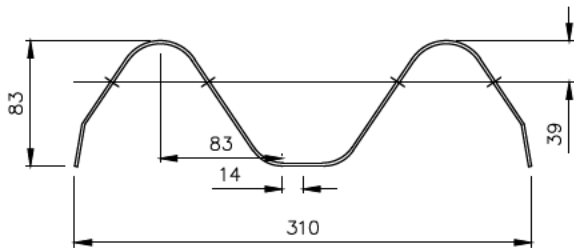
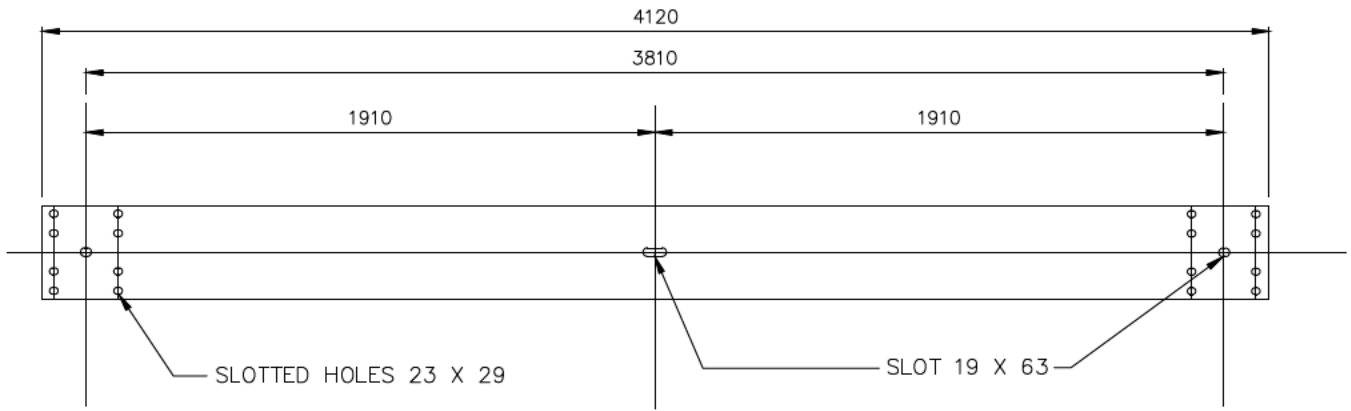
**NOTE:**  
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Date	Revisions	By
JAN/03	TITLE BLOCK	MLG
JUL/10	TITLE BLOCK	JJA

City of Regina | **REGINA**  
Infinite Horizons

**CONSTRUCTION STANDARDS**  
**Hoarding for Walkway**

Designed By:		Approved: <b>Stella Madsen</b>	
Date	Scale	R-19	
JAN/01	NTS		
Digital File: <b>STDR-19.dwg</b>			



Date	Revisions	By
JUL/10	TITLE BLOCK	JJA

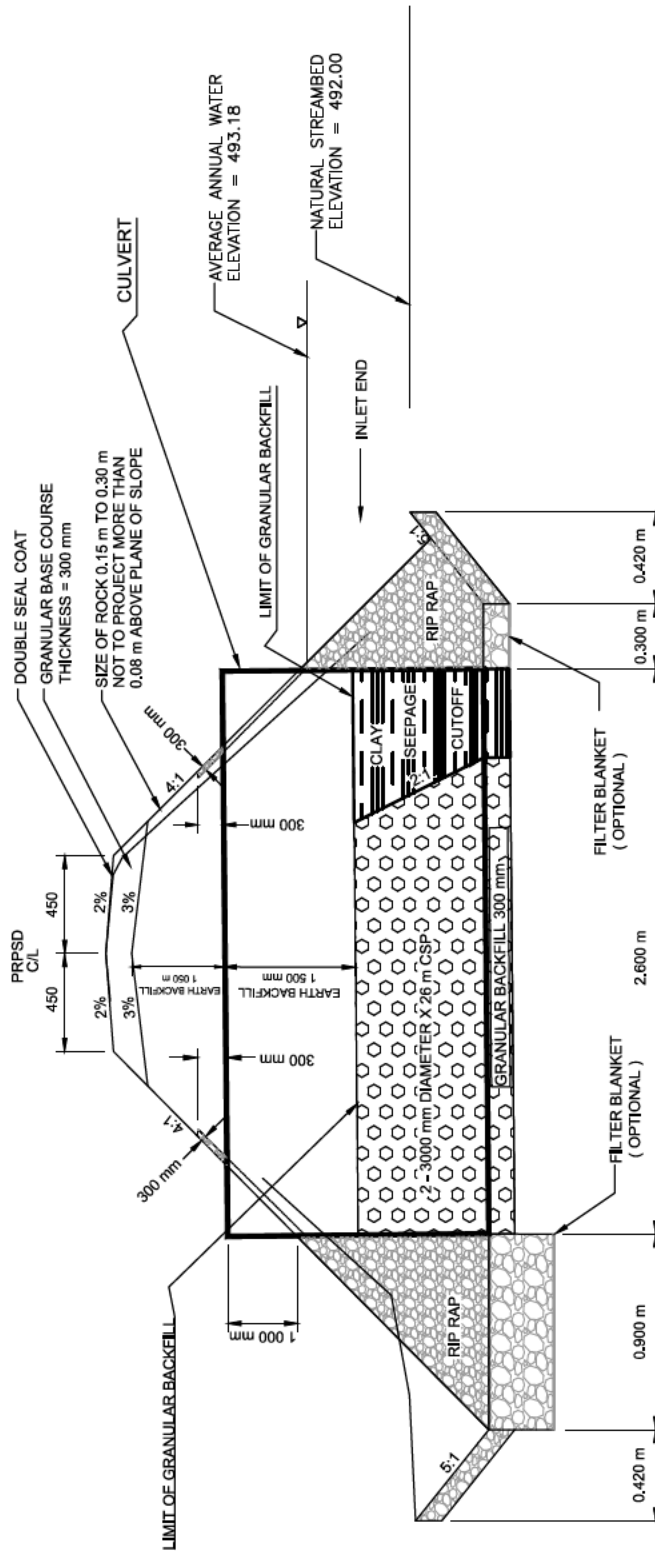


CONSTRUCTION STANDARDS  
W-Beam Elements  
and End Sections

Designed By: \_\_\_\_\_ Approved: Stella Madsen

Date: JAN/03 Scale: NTS R-20

Digital File: STDR-20.dwg



Date	Revisions	By
JUL/10	TITLE BLOCK	JJA

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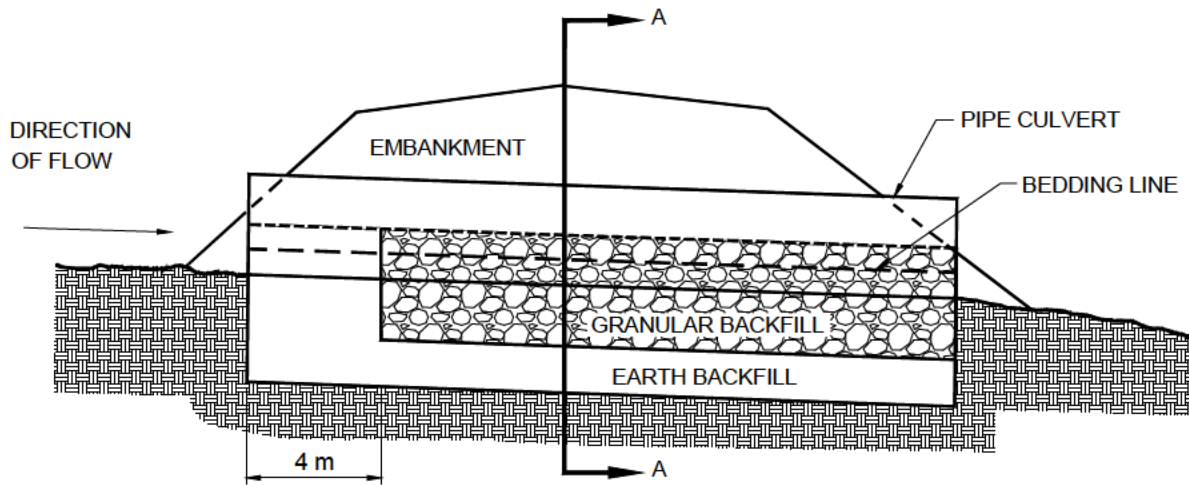
CONSTRUCTION STANDARDS  
**Culvert**

Designed By: \_\_\_\_\_ Approved: **Kelly Wyatt**

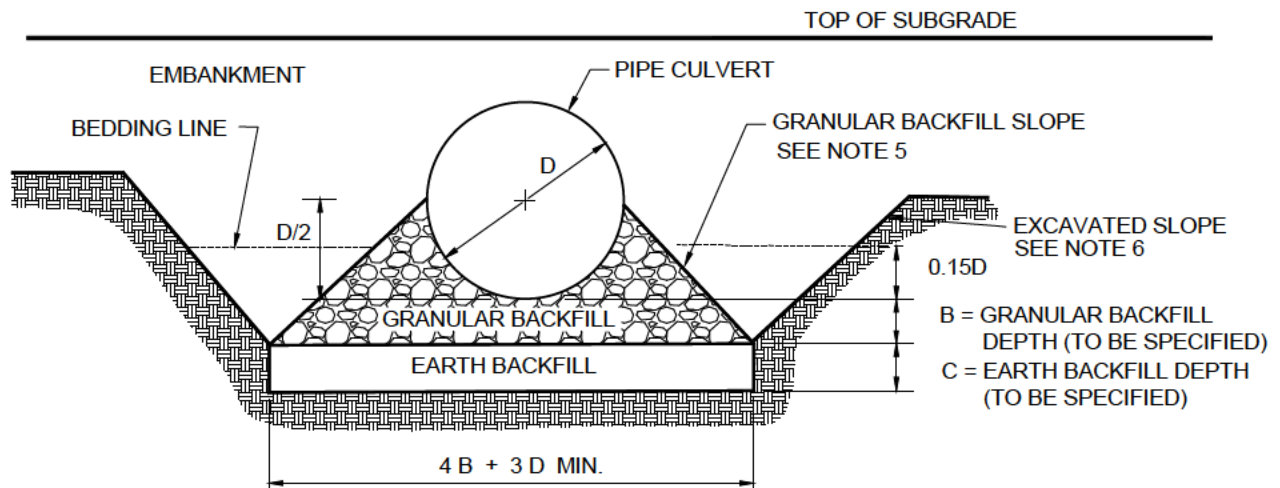
Date: **Jan/11** Scale: **NTS** **R-21**

Digital File: **STDR-21.dwg**





ROADWAY CROSS SECTION AT CULVERT CENTRE



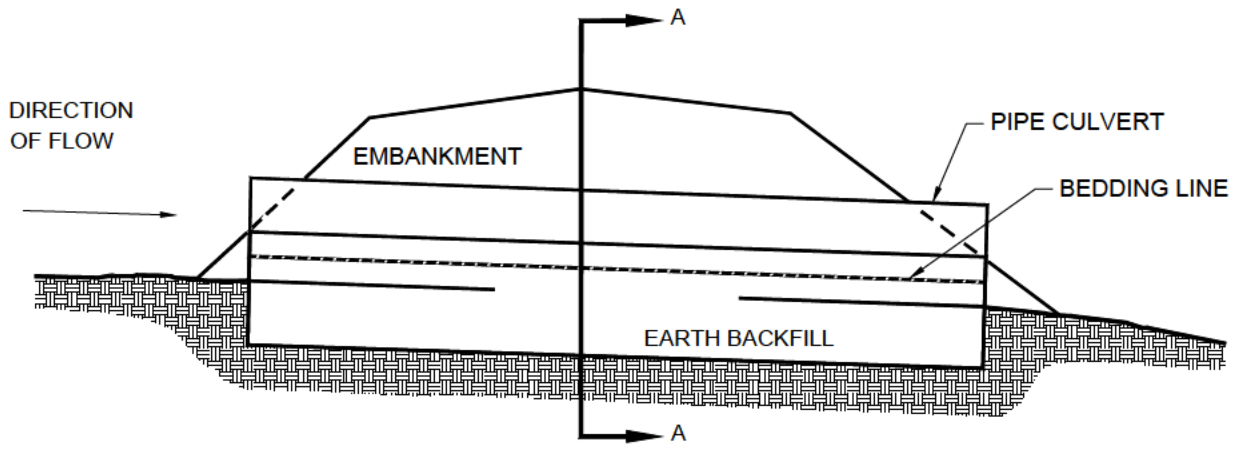
SECTION A-A

- NOTES:
1. THE ABOVE INSTALLATION DETAILS SHALL APPLY TO ROADBED CULVERTS AND CULVERTS IN APPROACHES UTILIZING GRANULAR BACKFILL.
  2. FOR ARCH AND ELLIPTICAL CULVERTS, SUBSTITUTE R = RISE FOR D=DIAMETER.
  3. BACKFILLING AND COMPACTION OF EARTH AND GRANULAR BACKFILL IS TO BE COMPLETED UP TO THE BEDDING LINE PRIOR TO SHAPING THE BED TO FIT THE BOTTOM OF THE PIPE.
  4. THE MATERIAL IN THE TRIANGULAR WEDGE ABOVE THE BEDDING LINE SHALL BE COMPACTED WITH MECHANICAL IMPACT TAMPERS.
  5. THE GRANULAR BACKFILL SLOPE SHALL NOT BE LESS THAN 2 HORIZONTAL TO 1 VERTICAL.
  6. THE EXCAVATED SLOPE SHALL BE 8 HORIZONTAL TO 1 VERTICAL FOR EMBANKMENTS WITH A SPECIFIED DENSITY AND 4 HORIZONTAL TO 1 VERTICAL FOR EMBANKMENTS WITH NO SPECIFIED DENSITY.

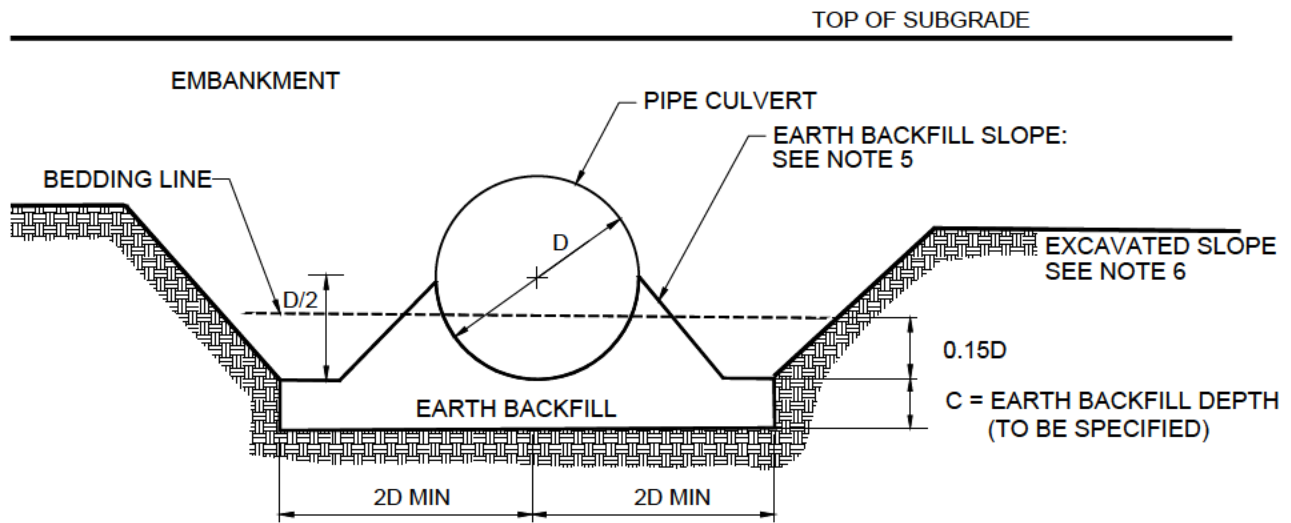
Date	Revisions	By
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Installation of Culverts Using Granular Backfill</b>		
Designed By:	Approved: Kelly Wyatt	
Date: Jan/11	Scale: NTS	R-21B
Digital File: STDR-21B.dwg		



ROADWAY CROSS SECTION AT CULVERT CENTRE



SECTION A - A

- NOTES:
1. THE ABOVE INSTALLATION DETAILS SHALL APPLY TO ROADBED CULVERTS AND CULVERTS IN APPROACHES UTILIZING EARTH BACKFILL.
  2. FOR ARCH AND ELLIPTICAL CULVERTS, SUBSTITUTE  $R =$  RISE FOR  $D =$  DIAMETER.
  3. BACKFILLING AND COMPACTION OF EARTH AND GRANULAR BACKFILL IS TO BE COMPLETED UP TO THE BEDDING LINE PRIOR TO SHAPING THE BED TO FIT THE BOTTOM OF THE PIPE.
  4. THE EARTH MATERIAL IN THE TRIANGULAR WEDGE ABOVE THE BEDDING LINE SHALL BE COMPACTED WITH MECHANICAL IMPACT TAMPERS.
  5. THE EARTH BACKFILL SLOPE SHALL NOT BE LESS THAN 2 HORIZONTAL TO 1 VERTICAL.
  6. THE EXCAVATED SLOPE SHALL BE 8 HORIZONTAL TO 1 VERTICAL FOR EMBANKMENTS WITH A SPECIFIED DENSITY AND 4 HORIZONTAL TO 1 VERTICAL FOR EMBANKMENTS WITH NO SPECIFIED DENSITY.

Date	Revisions	By
JUL/10	TITLE BLOCK	JJA



CONSTRUCTION STANDARDS		
<b>Installation of Culvert Using Earth Backfill</b>		
Designed By:	Approved: Kelly Wyatt	
Date: Jan/11	Scale: NTS	R-21C
Digital File: STDR-21C.dwg		