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<td>R-21</td>
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CLASS OF STREET          FULL DEPTH         PORTLAND          ASPHALT          GRANULAR
          ASPHALT               CEMENT CONCRETE

1) LOCAL  150 A.C.          190 P.C.C.          50 A.C.          NOTE 7
          50 BASE            170 BASE         150 DRAINAGE SAND

2) COLLECTOR  225 A.C.          200 P.C.C.          85 A.C.
          75 BASE            170 BASE         150 DRAINAGE SAND

3) BUS ROUTE (RESIDENTIAL)  225 A.C.          200 P.C.C.
          75 BASE            170 BASE         150 DRAINAGE SAND

4) BUS ROUTE (CORE)  240 A.C.          210 P.C.C.
          75 BASE            170 BASE         230 DRAINAGE SAND

5) INDUSTRIAL  240 A.C.          210 P.C.C.
          75 BASE            170 BASE         230 DRAINAGE SAND

6) MINOR ARTERIAL  5% COMMERCIAL  250 A.C.          220 P.C.C.
          100 BASE            180 BASE         230 DRAINAGE SAND

7) MINOR ARTERIAL  10% COMMERCIAL  265 A.C.          230 P.C.C.
          100 BASE            180 BASE         250 DRAINAGE SAND

NOTES
1. THE DESIGN THICKNESS INDICATED ABOVE REPRESENTS THE MINIMUM STRUCTURE REQUIRED.
2. A PAVEMENT DESIGN IS REQUIRED FOR MAJOR ARTERIALS, EXPRESSWAYS, AND FREeways.
3. ALTERNATE PAVEMENT STRUCTURES MAY BE USED SUBJECT TO CITY APPROVAL.
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.
6. ALL MATERIALS BASED ON CITY OF REGINA STANDARD CONSTRUCTION SPECIFICATIONS,
7. MIN THICKNESS OF AC IS 50MM FOR LOCAL ROADS. PREFERRED MINIMUM THICKNESS IS 80MM.
NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. IF PAVED PARKING LOT ABUTS ALLEY THEN EXTEND ALLEY PAVEMENT TO PROPERTY LINE.

3. GRADE LIMITS 0.5% - 6.0%

---

CONSTRUCTION STANDARDS

Alley Pavement Structures

City of Regina | REGINA

Designed by: Dustin McCall
Date: SEP16
Scale: NTS
Stock No: R-2C

<table>
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<th>By</th>
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<tr>
<td>SEP16</td>
<td>SPEC REVIEW &amp; UPDATE</td>
<td>TSY</td>
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**CROWN**
3% CROSS SLOPE

**SIDE SLOPE**
4:1 MINIMUM

Z1 = 4.0 UP TO 1.5m FILL
3.0 > 1.5m FILL

D = 3.0 MIN, 5.0 PREFERRED.
Z2 = 3.0 MIN, 4.0 PREFERRED.

---

**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. TO BE USED FOR AADT (AVERAGE ANNUAL DAILY TRAFFIC) < 500 VPD (VEHICLES PER DAY)
100% ABS "WYE" IN DIRECTION OF SLOPE

2m TO BOC WITH SIDEWALK
1m TO BOC WITHOUT SIDEWALK

METAL CAP MINIMUM
200mm BELOW GROUND

SIDEWALK
CURB

100% PIPE

45° LONG RADIUS BEND
100% DRAINAGE PIPE

SECTION A-A

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

CONSTRUCTION STANDARDS
Drainage Pipe Clean-out Detail

City of Regina | REGINA
Infinite Horizons

Designed By: Dustin McCall
Approved: DMC

Date: SEP16
Scale: NTS

STDR-2F.png
NOTES:
1. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE NOTED.
2. 10 M REINFORCING REQUIRED:
   - INDUSTRIAL AND COMMERCIAL AREAS
   - AT INTERSECTIONS ON RADII

600MM LONG 10M DEFORMED BAR CENTRED ON 1.5M PANELS WHEN CENTRE MEDIAN PAVING OR SIDEWALK TO FOLLOW.

CONSTRUCTION STANDARDS
Rolled Curb and Gutter
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
   UNLESS OTHERWISE NOTED.

2. 10M REINFORCING REQUIRED AT INTERSECTIONS ON RADI
   AND IN COMMERCIAL AND INDUSTRIAL AREAS.
   MAY BE OMITTED IN RESIDENTIAL AREAS IF CURB & GUTTER
   CAST CONCURRENTLY WITH WALK.
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. 10M REINFORCING REQUIRED AT INTERSECTIONS ON RADIi AND IN COMMERCIAL AND INDUSTRIAL AREAS. MAY BE OMITTED IN RESIDENTIAL AREAS IF CURB & GUTTER CAST CONCURRENTLY WITH WALK.
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. 10M REINFORCING REQUIRED AT INTERSECTIONS ON RADIUS AND IN COMMERCIAL AND INDUSTRIAL AREAS, MAY BE OMITTED IN RESIDENTIAL AREAS IF CURB & GUTTER CAST CONCURRENTLY WITH WALK.

600MM LONG 10M DEFORMED BAR CENTRED ON 1.5M PANELS WHEN CENTRE MEDIAN PAVING OR SIDEWALK TO FOLLOW.
MEDIAN MAINTENANCE ACCESS

LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER

800MM LONG 10M DEFORMED BAR CENTRED ON 1.5M PANELS WHEN CENTRE MEDIAN PAVING TO FOLLOW

CONCRETE MEDIAN PAVING

290

40 150 100

150 TO 200

200

80

HARD SURFACE MEDIAN

NOTES:

1. 10M REINFORCED BARS TO BE USED ON CURVED SECTIONS.

2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
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.

4. DOWEL NEW CURB TO EXISTING CURB IF REQUIRED.
MEDIAN ON TOP LIFT OF ASPHALT

500mm LONG VERTICAL REINFORCING BAR ON 1.5m CENTRES TIED TO HORIZONTAL BAR

MEDIAN ON BOTTOM LIFT OF ASPHALT

NOTES:

1. 10m REINFORCED BARS TO BE USED VERTICALLY AND HORIZONTALLY ON ALL SECTIONS.

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

REVERSE CURB OPTION
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. REINFORCE COMMERCIAL AND INDUSTRIAL CROSSINGS.
3. REFER TO R-10A FOR TYPICAL APPLICATION
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. FOR ALLEY CROSSINGS, INCREASE WALK THICKNESS TO 180.
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.
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. 10M DOWELS 600 mm LONG

3. GREASE ONE END OF DOWEL.
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.
Curb & Gutter Section in accordance with R-3 or R-4

Sidewalk varies (1200-1800)

10M - 600 Long Deformed Bar centered in walk panels based on contraction cuts in curb & gutter

150 Granular Material

Section A-A

Notes:
1. All dimensions are in millimetres unless otherwise noted.
2. See drawing R-7 for location of longitudinal reinforcing.
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.
NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETRES
UNLESS OTHERWISE NOTED.
NOTES:
1. MAX RAMP SLOPE = 8.3%.
2. MIN RAMP SLOPE = 2.0%
3. FLARE SLOPE SHALL BE BETWEEN 1:10 AND 1:15 ALONG FACE OF CURB.
4. ALIGN RAMPS WITH DIRECTION OF CROSSWALK.
5. RED COLOUR PIGMENT TO BE ADDED TO CONCRETE SURFACE OF RAMP ONLY.
6. GRADIENT OF GUTTER AROUND CORNER RADIUS TO BE MINIMUM 1.0%.
7. FOR NEW DEVELOPMENTS: R = 9.0m OR 12.0m PER DEVELOPMENT STANDARDS MANUAL.
8. DROP AT BACK OF CURB AS FOLLOWS:
   105mm FOR BARRIER CURB
   50mm FOR ROLLED CURB

SECTION A-A

CONSTRUCTION STANDARDS
Pedestrian Crossing
Curb Ramp Details

Designed By: Dustin McCall

City of Regina | REGINA
Infinite Horizons

STDR-9.dwg
NOTES:
1. REFER TO R-9 FOR CURB RAMP DETAILS.
2. INTENDED FOR NEW DEVELOPMENTS. REFER TO R-9E FOR RETROFIT IN EXISTING AREAS.

CONSTRUCTION STANDARDS
Pedestrian Crossing
Typical Layouts

Date   Revisions   By
JAN/17 SPEC REVIEW CHANGES   TSY
APR/17 REVISED DRAWING TITLE   BW

City of Regina

Designed By: Bill Wright
Approved: Dustin McCall

R-9A

Digital File: STDR-9A.dwg
NOTE:
ALL DIMENSIONS ARE IN MILLIMETRES
UNLESS OTHERWISE NOTED.
SLOPE RAMP SLOPE RAMP
FLARE
FLARE FLARE FLARE FLARE
SLOPE RAMP

MEDIAN CROSSING DETAIL
WIDTH > 4.5m

MEDIAN CROSSING DETAIL
1.8m < WIDTH < 4.5m

MEDIAN CROSSING DETAIL
WIDTH < 1.8m

CONSTRUCTION STANDARDS
Pedestrian Crossing
Medians

Date Revisions By
JAN/17 SPEC REVIEW CHANGES TSY
APR/17 REVISED DETAILS AND NOTES TSY

DESIGNED BY:
Bill Wright

APPROVED:
Dustin McCall

City of Regina
REGINA

Data File: STDR-9D.dwg

R-9D
NOTES:
1. REFER TO R-9 FOR CURB RAMP DETAILS.
2. MAX 2.0m. REDUCE WIDTH IF REQUIRED TO STAY WITHIN B.C. OR E.C.
3. RAMP WIDTH MAY BE REDUCED TO 1.5m, IF REQUIRED.

PEDESTRIAN RAMP RETORFIT IN EXISTING AREAS
SHORT RADIUS - MONO SIDEWALK
WIDTH ≤ 2.7m
PLAN VIEW

ELEVATION

SECTION A-A

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. SEE DRAWING R-7A AND SECTION 2550 FOR LOCATION AND APPLICATION OF REINFORCING THROUGH COMMERCIAL AND INDUSTRIAL CROSSINGS.

3. DIAGONAL JOINTS MAY BE ELIMINATED AT PRIVATE CROSSINGS IN RESIDENTIAL AREAS.

4. WIDTH AT BOW TO MATCH ALLEY PAVEMENT WIDTH SHOWN IN R-2C FOR ALLEY CROSSINGS

Date | Revisions | By
--- | --- | ---
JAN/01 | WIDTH AT ALLEY | J.H.
JAN/03 | GRANULAR MAL DEPTH; NOTE 2 | MLG
JAN/03 | TITLE BLOCK | J.H.
DEC/04 | DEPTH OF LIP | J.H.
DEC/06 | NOTE 2 | J.H.
JUL/10 | TITLE BLOCK | JJA
SEP/16 | SPEC REVIEW CHANGES | TSY

CONSTRUCTION STANDARDS
Combined Concrete Walk, Curb and Gutter Crossing

Designed By: Dustin McCall

Approved: R-10
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. SEE DRAWING R-4 FOR LOCATION OF REINFORCING AND DETAILED DIMENSIONS FOR CURB AND GUTTER.
NOTES:
1. All dimensions are in millimetres unless otherwise noted.
2. To be used on streets that have existing barrier curb.
3. See drawing R-7A and section 2550 for location and application of reinforcing through commercial and industrial crossings.
NOTES:

1. UNITS SHOWN ARE MILLIMETRES UNLESS OTHERWISE NOTED.
NOTES:
1. UNITS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

CONSTRUCTION STANDARDS
Catch Basin Box-Out
(Barrier Curb and Gutter)
CONSTRUCTION JOINT DOWELLED ACCORDING TO R-78 AND THIS DRAWING

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.
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
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.
NOTES:

1. ALL APPURTENANCES SHALL BE ISOLATED FROM THE CONCRETE BY BOXING OUT WITH EITHER RECTANGULAR OR CIRCULAR CONFIGURATION SHOWN ABOVE. JOINT BOARD OR FILLER MATERIAL SHALL EXTEND COMPLETELY THROUGH THE SLAB.

2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
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 150 x 380 LG. EACH. PIN SHALL HAVE A SHARP POINT & NO HEAD.
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.
NOTE
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

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<th>Terminal Posts OD (mm)</th>
<th>Terminal Post Length (mm)</th>
<th>Terminal Post Hole Diameter (mm)</th>
<th>Terminal Post Hole Depth (mm)</th>
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CONSTRUCTION STANDARDS

Chain Link Fence
Type "A"

Date: APR/17
Revisions: UPDATED NOTES
By: BW

Designed By: Dustin McCall

APR/17
Scale: NTS

City of Regina
REGINA
Affordable Housing
DETAIL "A" - DUCK BILL ASSEMBLY

DETAIL "B" BRACE BAND

DETAIL "D" TENSION BAND

DETAIL "C" CABLE CLIP

NOTES:
1. MAXIMUM SPACING BETWEEN BRACING SHALL BE 150 METRES
2. TOP WIRE ONLY IS TO BE THREADED THROUGH CLIPS WITH MESH ATTACHED TO WIRE.
3. 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.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
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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
WEATHERTIGHT ROOF SLOPED TOWARDS (DESIGN LOAD 2.4 kPa)

"CONSTRUCTION OR DEMOLITION SITE"

1500 CLEAR WIDTH

38 x 89 @ 600 O.C.

12.7 PLYWOOD

15.9 PLYWOOD

2500 (CLEAR HEIGHT)

PROPERTY LINE

38 x 89 @ 600 O.C.

38 x 89 HANDRAIL

12.7 PLYWOOD

38 x 89 STUDS @ 600 O.C.

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

DETAIL 1

SECTION A-A

DETAIL 2

FRONT VIEW

15.9 PLYWOOD (FLOOR)

38 x 89 @ 600 O.C.

NOTE:
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
NOTE:
UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, REFER TO SASKATCHEWAN MINISTRY OF HIGHWAYS STANDARD PLANS 28710, 28712 AND 28713 FOR TYPICAL W-BEAM INSTALLATION DETAIL.
NOTES:
1. THE ABOVE INSTALLATION DETAILS SHALL APPLY TO ALL ROADBED CULVERTS AND CULVERTS IN APPROACHES.
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. EARTH MATERIAL SHALL CONSIST OF CLAY MATERIAL COMPACTED TO AT LEAST 95% STANDARD PROCTOR DRY DENSITY ± 3% OF OPTIMUM MOISTURE CONTENT.
5. THE GRANULAR BACKFILL SHALL BE TYPE 32 OR TYPE 33 GRANULAR BASE COURSE COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY.
6. THE EXCAVATED SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER.
7. CULVERT SIGN POST: 2.4m LONG, STEEL T (38x38x4), EMBED MIN 1.0m, PAINTED YELLOW c/w ALUMINUM SIGN, BLACK LETTERING ON ORANGE BACKGROUND (150X 250). INSTALL SIGN 3m FROM END OF CULVERT, ON EDGE OF DITCH, OR AS DIRECTED BY THE ENGINEER.