

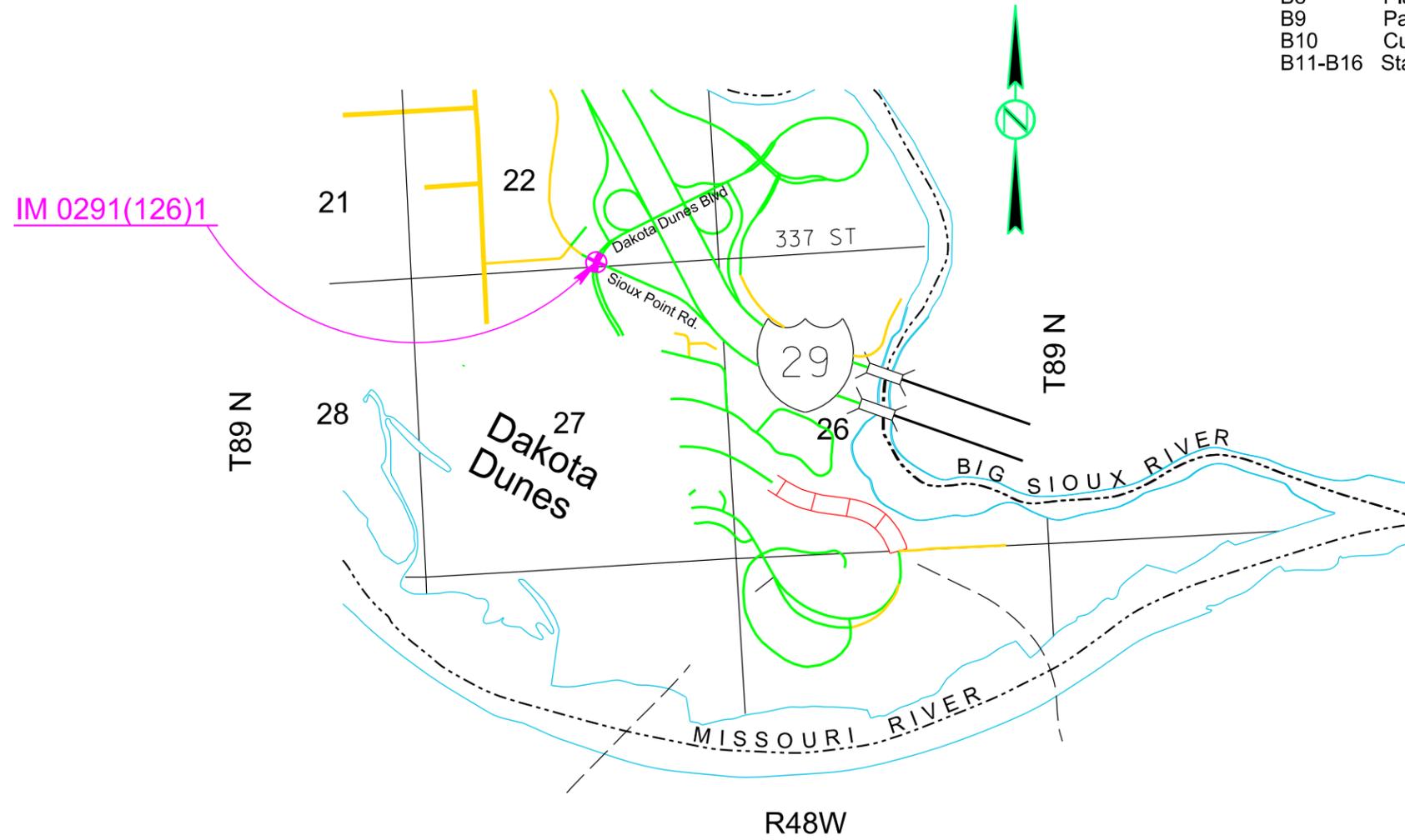
SECTION B: GRADING PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	B1	B16

Plotting Date: 07/27/2015

INDEX OF SHEETS

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- B7 Existing Topography Symbology and Legend
- B8 Plan Sheet
- B9 Pavement Removal Layout
- B10 Curb Ramp Layout
- B11-B16 Standard Plates



Plot Scale - 1:200

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SECTION B ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	28	Ft
110E1100	Remove Concrete Pavement	12.8	SqYd
110E1140	Remove Concrete Sidewalk	15.0	SqYd
650E0090	Type B69 Concrete Curb and Gutter	27	Ft
650E0390	Type BL69 Concrete Curb and Gutter	68	Ft
651E0050	5" Concrete Sidewalk	726	SqFt
651E7000	Type 1 Detectable Warnings	48	SqFt

UTILITIES

The Contractor shall be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor shall contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

Subsurface utility explorations were done for this project. The findings can be found in the SUBSURFACE UTILITY LOCATIONS table elsewhere in the plans. The table is provided to aid the Contractor during construction. All information in the table is approximate and shall be verified by the Contractor prior to construction in those areas.

REMOVAL OF EXISTING CONCRETE PAVEMENT

At locations where the existing concrete curb and gutter is monolithic with the concrete pavement, the Contractor shall saw-cut an area of sufficient size to allow the installation of concrete curb and gutter or concrete pavement, as approved by the Engineer.

TYPE BL69 CONCRETE CURB AND GUTTER

The gutter slope shall be varied from level to maintain a normal gutter line profile and to match the gutter slope of the existing curb and gutter at tie-in points.

TYPE 1 DETECTABLE WARNINGS

Detectable warnings shall be in compliance with the Americans with Disabilities Act regulations.

The detectable warnings shall be installed according to the manufacturer's installation instructions.

A concrete thickness equal to the adjacent concrete sidewalk thickness and 2 inches of granular cushion material shall be placed below the Type 1 Detectable Warnings. When concrete is placed below the detectable warnings then the concrete thickness shall be transitioned at the rate of 1" per foot to match the adjacent concrete sidewalk thickness.

The detectable warnings shall be a brick red color for application in concrete curb ramps. Cast iron plates may be a natural patina (weathered steel).

When Type 1 Detectable Warnings are specified, the Contractor shall furnish and install only one of the products listed in the Type 1 Detectable Warnings table.

Type 1 Detectable Warnings

Product	Manufacturer
Detectable Warning Plate Cast Iron Plate	Neenah Foundry Company Neenah, WI 800-558-5075 http://www.neenahfoundry.com/
Detectable Warning Plate Cast Iron Plate	Deeter Foundry Lincoln, NE 800-234-7466 http://www.deeter.com/
Detectable Warning Plate Cast Iron Plate(No Coating)	East Jordan Iron Works, Inc. 301 Spring Street East Jordan, MI 49727 800-626-4653 http://www.ejiw.com

HORIZONTAL ALIGNMENT DATA

STATE OF SOUTH DAKOTA	PROJECT IM 0291(126)1	SHEET B4	TOTAL SHEETS B16
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Plotting Date: 12/16/2014

MAINLINE

Type	Station			Northing	Easting
PC	2+60.51			85403.547	3003404.669
PI	4+73.59	R = 600.00	Delta = 39°06'13" R	85613.572	3003368.703
PT	6+70.00			85799.237	3003473.263
		TL= 80.60	N 29°23'12" E		
PC	7+50.60			85869.464	3003512.812
PI	9+29.23	R = 600.00	Delta = 33°09'27" R	86025.105	3003600.463
PT	10+97.82			86107.463	3003758.969
		TL= 169.75	N 62°32'38" E		
POE	12+67.58			86185.730	3003909.600

XR110

Type	Station			Northing	Easting
PC	107+00.00			85980.899	3003231.416
PI	107+59.90	R = 1970.00	Delta = 3°28'59" L	85948.625	3003281.874
PT	108+19.76			85919.475	3003334.198
		TL= 100.70	S 60°52'43" E		
PC	109+20.46			85870.467	3003422.172
PI	109+94.87	R = 1200.00	Delta = 7°05'46" L	85834.256	3003487.172
PT	110+69.08			85806.353	3003556.147
		TL= 286.28	S 67°58'29" E		
POE	113+55.36			85698.992	3003821.536

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011) epoch 2010.00; Geoid12A; SF = 1.0102710766

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CONTROL DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	B5	B16

Plotting Date: 07/22/2015

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP1	7+74.97	99.72' R	Yellow capped Rebar stamped "4344" – NE corner of Dakota Dunes Boulevard & Sioux Point Road.	85838.027	3003610.032	1105.866
CP2	9+44.98	47.61' R	5/8" Rebar & Cap Stamped "SDDOT Control PT" – 12.5' +/- Behind Curb – 8.5'+- Behind Electrical JCT. Box – Approx. 200' NE	85985.221	3003665.621	1108.816
CP3	10+97.36	99.75' R	5/8' Rebar Property Corner- 1' South of Chain Link fence Approx. 350' NE of Intersection – South Side of Dakota Dunes Boulevard	86018.772	3003804.615	1105.366
CP4	9+02.13	100.55' L	Yellow Capped Rebar Property Corner -1'+/- North of Chain Link Fence for North Row of Dakota Dunes Boulevard	86060.420	3003530.462	1101.386
CP5	6+91.67	750.85' R	Yellow Capped Rebar Property Corner – West of Chain Link fence @ SE Corner of Courtyard Drive & Sioux Point Road – 735'+/	85449.677	3004138.136	1105.806
CP6	5+28.20	531.87' L	Capped Rebar Property Corner- 24' South of CL Tower Road -310'+/ - Southwest of Intersection of Tower Road and Sioux	85813.874	3002907.200	1104.086

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011)
 epoch 2010.00; Geoid 12A: SF = 1.0102710766
 The elevations shown on this sheet are based on NAVD 88.

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SUBSURFACE UTILITY LOCATIONS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	B6	B16

Plotting Date: 12/16/2014

Subsurface utility explorations were done at the following locations. The information below states what was located in the specified areas. This table is provided to aid the Contractor during construction and does not substitute or replace the requirements of SD One Call. All information is approximate and the Contractor shall verify all utility locations before construction in those areas as mandated in SDCL 49-7A.

Test Hole	Station	Offset	Finding	Existing Ground Elev.	Utility Depth (Ft.)	Utility Elevation	Northing	Easting
1	6+35.98	69.81' L	Fiber Optic Cable in 3" PVC	1106.42	1.65	1104.77	85799.891	3003394.746
2	6+37.65	66.00' L	Fiber Optic Cable in 2" PVC	1106.45	2.28	1104.17	85799.869	3003398.988
3	6+57.75	101.94' R	Fiber Optic Cable in 3" PVC	1105.46	2.43	1103.03	85740.305	3003557.185

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011) epoch 2010.00; Geoid 12A; SF = 1.0102710766
 The elevations shown on this sheet are based on NAVD 88.

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EXISTING TOPOGRAPHY SYMBOLOGY AND LEGEND

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Anchor		Hedge		Shrub Tree	
Antenna		Highway R.O.W. Marker		Sidewalk	
Approach		Interstate Close Gate		Sign Face	
Assumed Corner		Iron Pin		Sign Post	
Azimuth Marker		Irrigation Ditch		Slough Or Marsh	
BBQ Grill/ Fireplace		Lake Edge		Spring	
Bearing Tree		Lawn Sprinkler		Stream Gauge	
Bench Mark		Mailbox		Street Marker	
Box Culvert		Manhole Electric		Subsurface Utility Exploration Test Hole	
Bridge		Manhole Gas		Telephone Fiber Optics	
Brush		Manhole Misc		Telephone Junction Box	
Buildings		Manhole Sanitary Sewer		Telephone Pole	
Bulk Tank		Manhole Storm Sewer		Television Cable Jct Box	
Cattle Guard		Manhole Telephone		Television Tower	
Cemetery		Manhole Water		Test Wells/Bore Holes	
Centerline		Merry-Go-Round		Traffic Signal	
Cistern		Microwave Radio Tower		Trash Barrel	
Clothes Line		Misc. Line		Tree Belt	
Commercial Sign Double Face		Misc. Property Corner		Tree Coniferous	
Commercial Sign One Post		Misc. Post		Tree Deciduous	
Commercial Sign Overhead		Overhang Or Encroachment		Tree Stumps	
Commercial Sign Two Post		Overhead Utility Line		Triangulation Station	
Concrete Symbol		Parking Meter		Underground Electric Line	
Creek Edge		Pipe With End Section		Underground Gas Line	
Curb/Gutter		Pipe With Headwall		Underground High Pressure Gas Line	
Curb		Pipe Without End Section		Underground Sanitary Sewer	
Dam Grade/Dike/Levee		Playground Slide		Underground Storm Sewer	
Deck Edge		Playground Swing		Underground Tank	
Ditch Block		Power And Light Pole		Underground Telephone Line	
Doorway Threshold		Power And Telephone Pole		Underground Television Cable	
Drainage Profile		Power Meter		Underground Water Line	
Drop Inlet		Power Pole		Warning Sign One Post	
Edge Of Asphalt		Power Pole And Transformer		Warning Sign Two Post	
Edge Of Concrete		Power Tower Structure		Water Fountain	
Edge Of Gravel		Propane Tank		Water Hydrant	
Edge Of Other		Property Pipe		Water Meter	
Edge Of Shoulder		Property Pipe With Cap		Water Tower	
Elec. Trans./Power Jct. Box		Property Stone		Water Valve	
Fence Barbwire		Public Telephone		Water Well	
Fence Chainlink		Railroad Crossing Signal		Weir Rock	
Fence Electric		Railroad Milepost Marker		Windmill	
Fence Misc.		Railroad Profile		Wingwall	
Fence Rock		Railroad R.O.W. Marker		Witness Corner	
Fence Snow		Railroad Signs			
Fence Wood		Railroad Switch		State and National Line	
Fence Woven		Railroad Track		County Line	
Fire Hydrant		Railroad Trestle		Section Line	
Flag Pole		Rebar		Quarter Line	
Flower Bed		Rebar With Cap		Sixteenth Line	
Gas Valve Or Meter		Reference Mark		Property Line	
Gas Pump Island		Regulatory Sign One Post		Construction Line	
Grain Bin		Regulatory Sign Two Post		R. O. W. Line	
Guardrail		Retaining Wall		New R. O. W. Line	
Guide Sign One Post		Riprap		Cut and Fill Limits	
Guide Sign Two Post		River Edge		Control of Access	
Gutter		Rock And Wire Baskets		New Control of Access	
Guy Pole		Rockpiles		Proposed ROW (After Property Disposal)	
Haystack		Satellite Dish			
		Septic Tank			

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VILLAGE CENTER WEST THIRD ADDITION

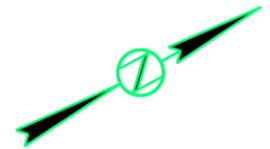
Dakota Dunes Community Improvement District

Tract 1 of Village Center West First Addition in Dakota Dunes

Parcel 1
Permanent Easement for Highway Purposes (Purchase by Legal Description)

DAKOTA DUNES

DAKOTA DUNES SIOUX POINT BUSINESS PARK FIRST ADDITION



xr110
PI 107+59.90
N 85948.62
E 3003281.87
Del 3°28'59" L
Dc 2°54'30"
T 59.90'
L 119.76'
R 1970.00'

xr110
PI 109+94.87
N 85834.26
E 3003487.17
Del 7°05'46" L
Dc 4°46'29"
T 74.41'
L 148.62'
R 1200.00'

Mainline
PI 9+29.23
N 86025.10
E 3003600.46
Del 33°09'27" R
Dc 9°32'57"
T 178.63'
L 347.22'
R 600.00'

Mainline
PI 4+73.59
N 85613.57
E 3003368.70
Del 39°06'13" R
Dc 9°32'57"
T 213.08'
L 409.49'
R 600.00'

VILLAGE CENTER THIRD ADDITION

Siouxland Partners Dunes, LLC

Dakota Dunes Community Improvement District

Lot 1 of Village Center Third Addition in Dakota Dunes

Tract A of Village Center Third Addition in Dakota Dunes

Parcel 2
0.04 ac, Permanent Easement (1730 sq ft) more or less.

Parcel 3
Permanent Easement for Highway Purposes (Purchase by Legal Description)

Parcel 2
6+19.92 to 6+45.55 R
Temporary Easement for Sidewalk containing 194 sq ft, more or less

Plot Scale - 1:40

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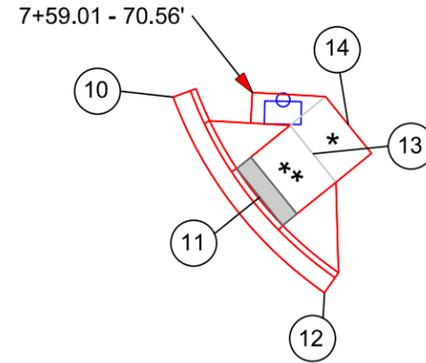
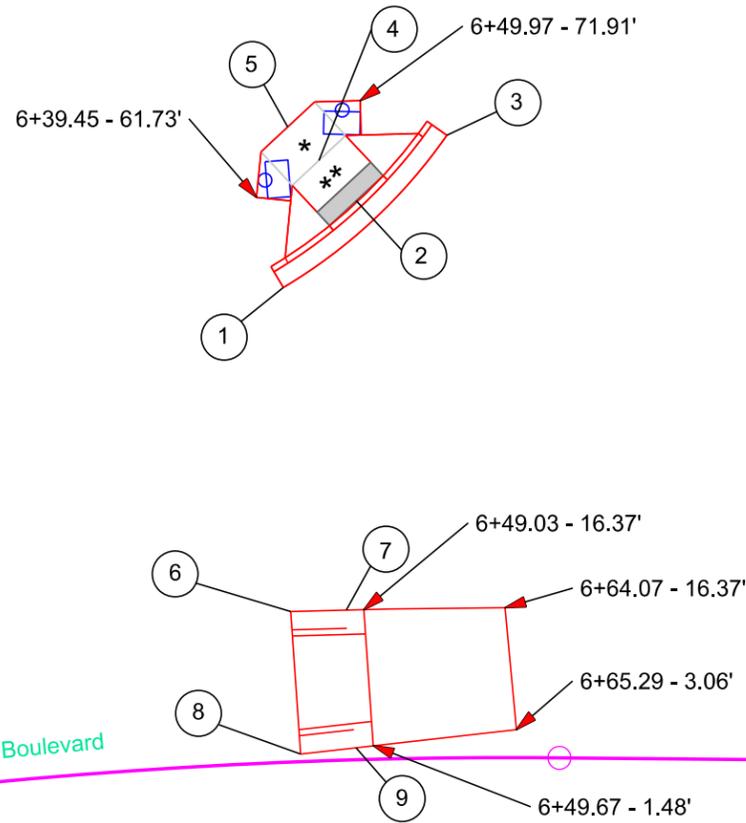
CURB RAMP LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	B9	B16

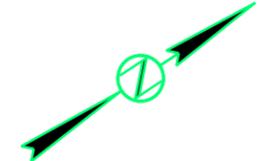
Plotting Date: 07/28/2015

Note: All Curb and Gutter shown on this sheet is Type BL69, and all Sidewalk is 8' wide except as noted.

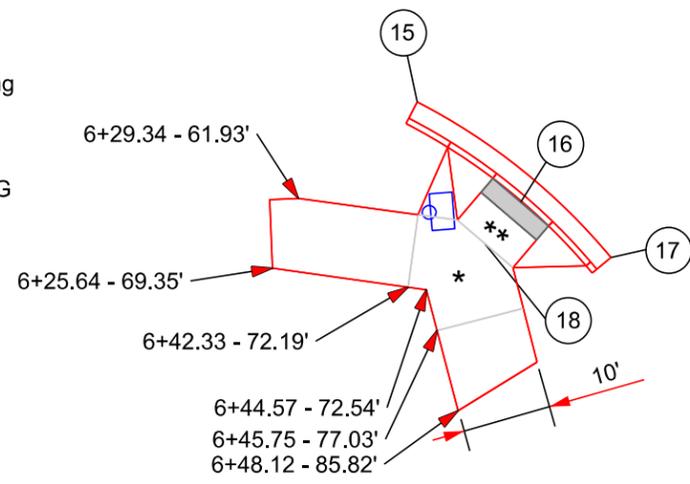
- 1 6+41.76 - 51.80' L
Begin 58' Rad C & G
TC Elev. (Match Existing)
- 2 6+49.33 - 61.01' L
Center of Detectable Warning
& Type 1 Curb Ramp
- 3 6+58.41 - 67.98' L
End 58' Rad C & G
TC Elev. (Match Existing)
- 4 6+45.75 - 65.52' L
End Ramp Slope
- 5 6+42.80 - 69.29' L
Back of Turning Space
- 6 6+41.24 - 16.42' L
Begin 6' Curb Transition
(See Standard Plate 380.22)
- 7 6+47.17 - 16.37' L
End 6' Curb Transition
TC Elev. 1106.30 (Theor)
- 8 6+41.71 - 0.84' L
Begin 6' Curb Transition
(See Standard Plate 380.22)
TC Elev. (Match Existing)
- 9 6+47.76 - 1.32' L
End 6' Curb Transition
TC Elev. 1106.23 (Theor)



- 10 7+51.26 - 69.90' L
Begin 45' Rad C & G
TC Elev. (Match Existing)
- 11 7+59.97 - 59.15' L
Center of Detectable Warning
& Type 1 Curb Ramp
- 12 7+66.77 - 48.92' L
End 45' Rad C & G
TC Elev. (Match Existing)
- 13 7+65.13 - 64.04' L
End Ramp Slope
- 14 7+68.52 - 67.32' L
Back of Turning Space



- 15 6+44.23 - 52.00' R
Begin 68' Rad Type B69 C & G
TC Elev. (Match Existing)
- 16 6+56.47 - 63.21' R
Center of Detectable Warning
& Type 1 Curb Ramp
- 17 6+67.53 - 69.29' R
End 68' Rad Type B69 C & G
TC Elev. (Match Existing)
- 18 6+52.01 - 67.70' R
End Ramp Slope



- LEGEND:**
- * Turning Space with 1.5% slope
 - ** Curb Ramp with 7.5% slope and 1.5% cross slope
 - ▒ Detectable Warning
 - ⊕ Pedestrian Push Button Pole and 30" x 48" Clear Space with 1.5% slope

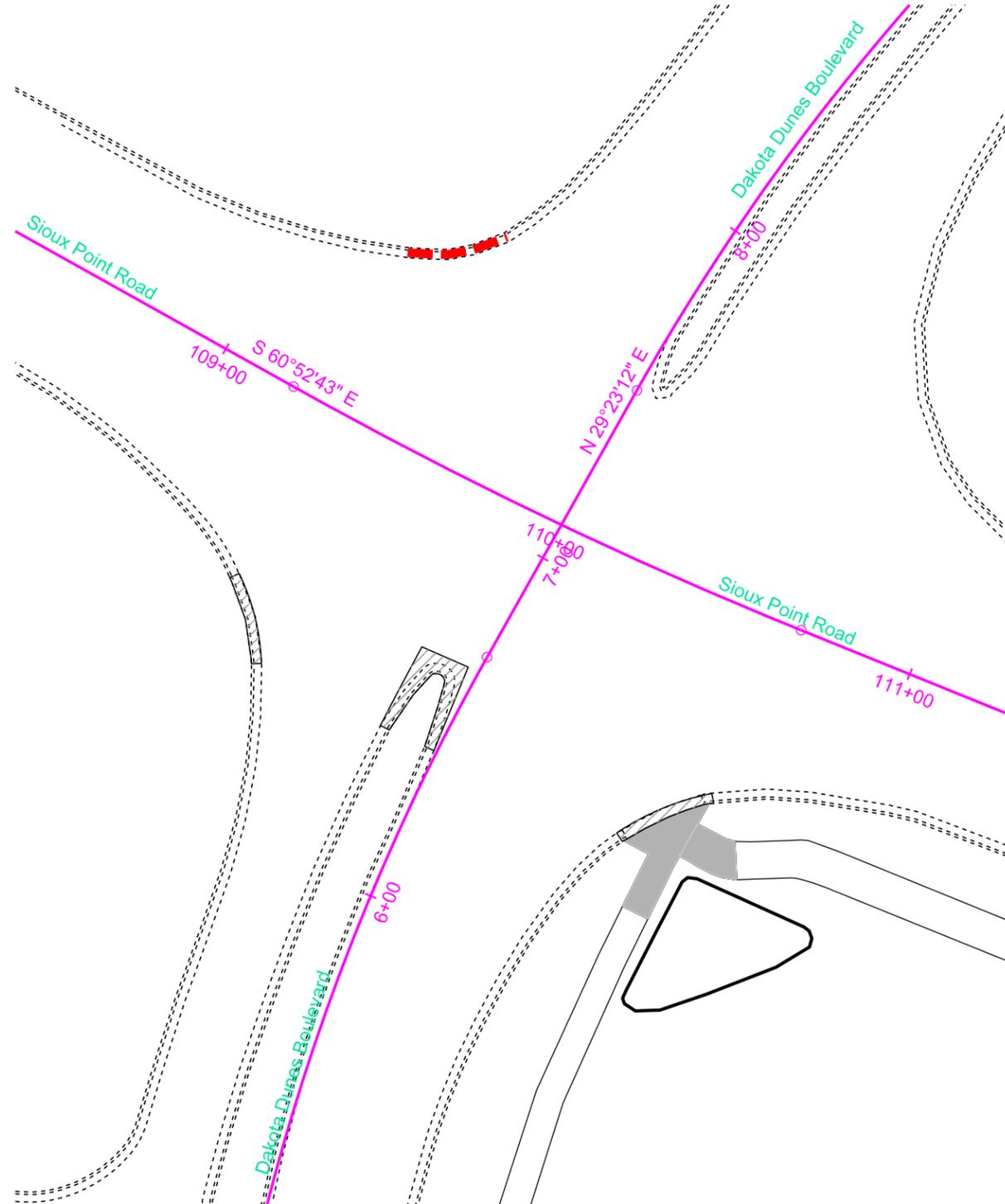
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PAVEMENT REMOVAL LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	B10	B16
Plotting Date:		07/27/2015	



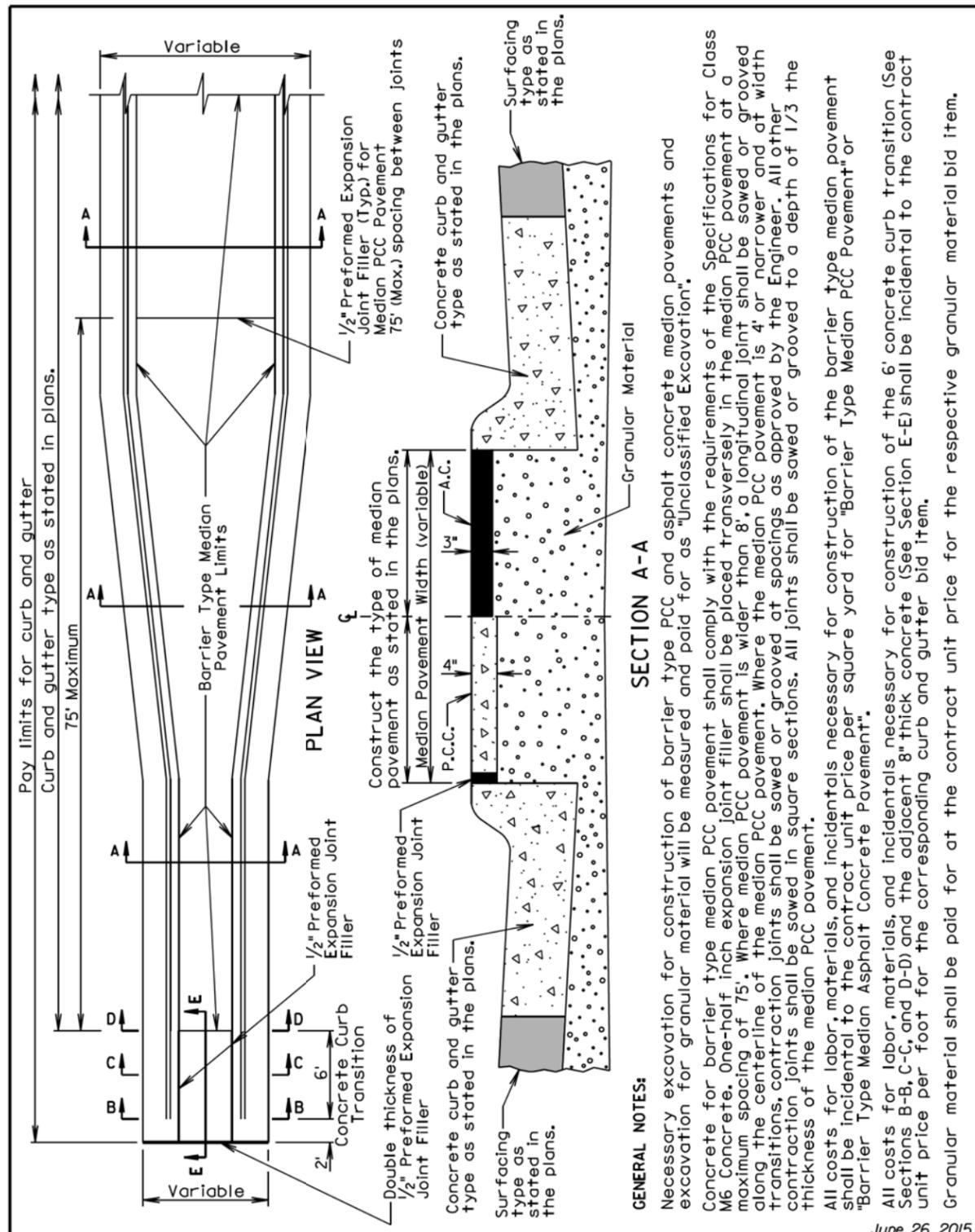
-  Remove Concrete Curb and Gutter
-  Remove Concrete Sidewalk
-  Remove Concrete Pavement

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Plot Scale - 1:200



SECTION A-A

GENERAL NOTES:

Necessary excavation for construction of barrier type PCC and asphalt concrete median pavements and excavation for granular material will be measured and paid for as "Unclassified Excavation".

Concrete for barrier type median PCC pavement shall comply with the requirements of the Specifications for Class M6 Concrete. One-half inch expansion joint filler shall be placed transversely in the median PCC pavement at a maximum spacing of 75'. Where median PCC pavement is wider than 8', a longitudinal joint shall be sawed or grooved along the centerline of the median PCC pavement. Where the median PCC pavement is 4' or narrower and at width transitions, contraction joints shall be sawed or grooved at spacings as approved by the Engineer. All other contraction joints shall be sawed in square sections. All joints shall be sawed or grooved to a depth of 1/3 the thickness of the median PCC pavement.

All costs for labor, materials, and incidentals necessary for construction of the barrier type median pavement shall be incidental to the contract unit price per square yard for "Barrier Type Median PCC Pavement" or "Barrier Type Median Asphalt Concrete Pavement".

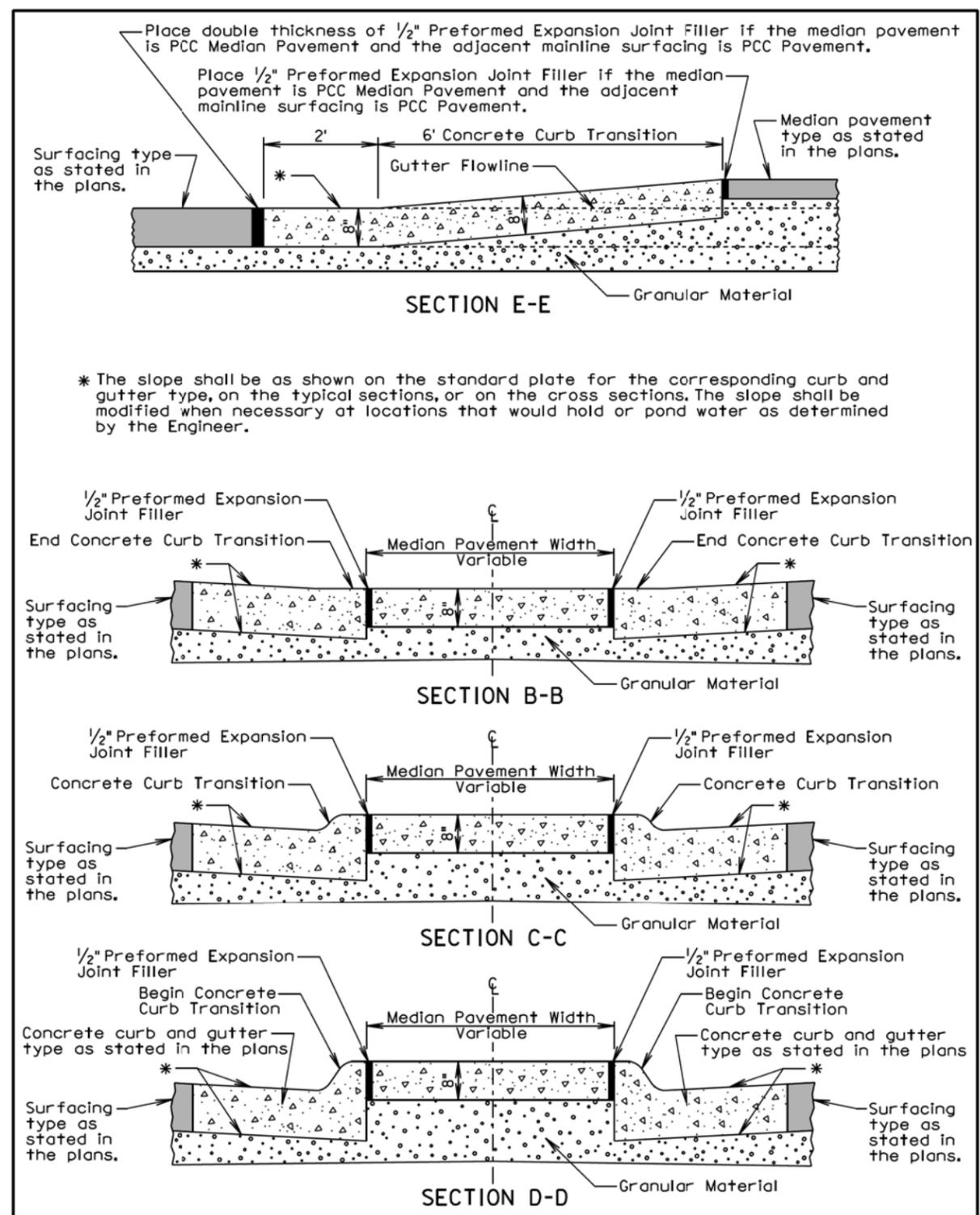
All costs for labor, materials, and incidentals necessary for construction of the 6' concrete curb transition (See Sections B-B, C-C, and D-D) and the adjacent 8' thick concrete (See Section E-E) shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item.

Granular material shall be paid for at the contract unit price for the respective granular material bid item.

June 26, 2015

S D D O T	BARRIER TYPE MEDIAN PAVEMENT	PLATE NUMBER 380.22
		Sheet 1 of 2

Published Date: 3rd Qtr. 2015



* The slope shall be as shown on the standard plate for the corresponding curb and gutter type, on the typical sections, or on the cross sections. The slope shall be modified when necessary at locations that would hold or pond water as determined by the Engineer.

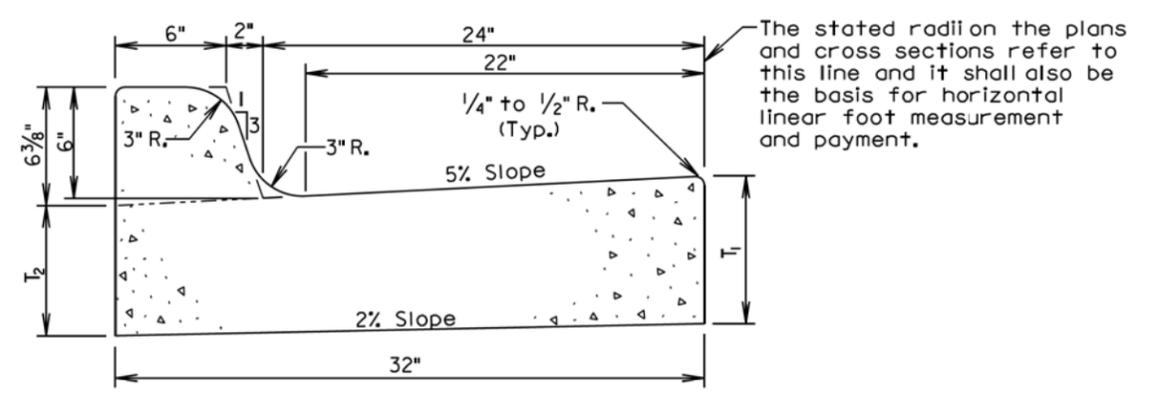
June 26, 2015

S D D O T	BARRIER TYPE MEDIAN PAVEMENT	PLATE NUMBER 380.22
		Sheet 2 of 2

Published Date: 3rd Qtr. 2015

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Plot Scale - 1:200



Type	T ₁ (Inches)	T ₂ (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
B66	6	5 ¹ / ₁₆	0.057	17.7
B67	7	6 ¹ / ₁₆	0.065	15.4
B68	8	7 ¹ / ₁₆	0.073	13.7
B68.5	8.5	7 ⁹ / ₁₆	0.077	13.0
B69	9	8 ¹ / ₁₆	0.081	12.3
B69.5	9.5	8 ⁹ / ₁₆	0.085	11.7
B610	10	9 ¹ / ₁₆	0.090	11.2
B610.5	10.5	9 ⁹ / ₁₆	0.094	10.7
B611	11	10 ¹ / ₁₆	0.098	10.2
B611.5	11.5	10 ⁹ / ₁₆	0.102	9.8
B612	12	11 ¹ / ₁₆	0.106	9.4

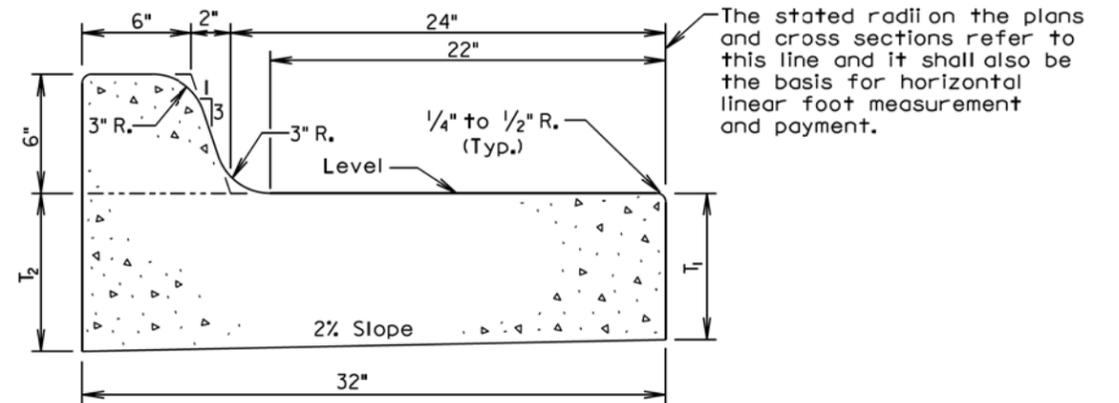
GENERAL NOTES:

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.
See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

September 6, 2008

S D D O T	TYPE B CONCRETE CURB AND GUTTER	PLATE NUMBER 650.01
		Sheet 1 of 1

Published Date: 3rd Qtr. 2015



Type	T ₁ (Inches)	T ₂ (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
BL66	6	6 ⁵ / ₈	0.063	15.9
BL67	7	7 ⁵ / ₈	0.071	14.1
BL68	8	8 ⁵ / ₈	0.080	12.5
BL68.5	8.5	9 ¹ / ₈	0.084	11.9
BL69	9	9 ⁵ / ₈	0.088	11.4
BL69.5	9.5	10 ¹ / ₈	0.092	10.9
BL610	10	10 ⁵ / ₈	0.096	10.4
BL610.5	10.5	11 ¹ / ₈	0.100	10.0
BL611	11	11 ⁵ / ₈	0.104	9.6
BL611.5	11.5	12 ¹ / ₈	0.108	9.3
BL612	12	12 ⁵ / ₈	0.112	8.9

GENERAL NOTES:

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.
See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

September 6, 2006

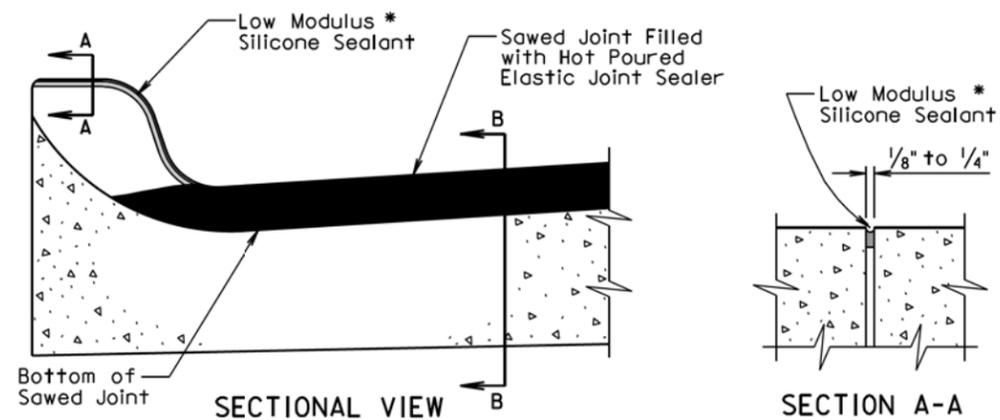
S D D O T	TYPE BL CONCRETE CURB AND GUTTER	PLATE NUMBER 650.05
		Sheet 1 of 1

Published Date: 3rd Qtr. 2015

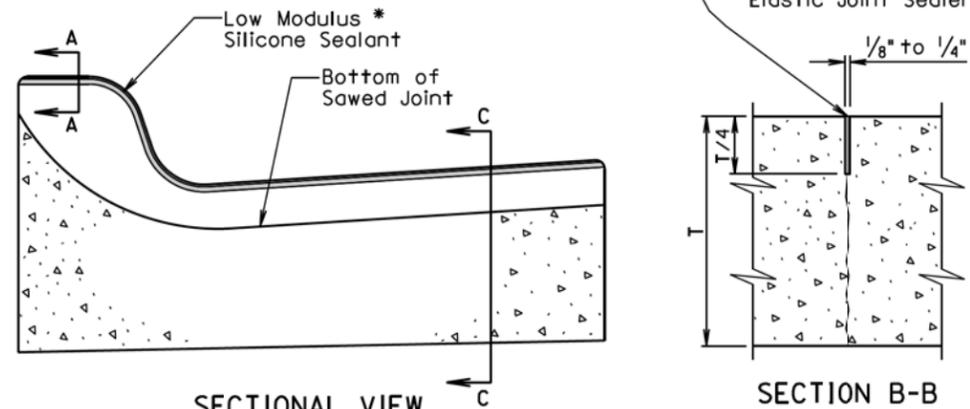
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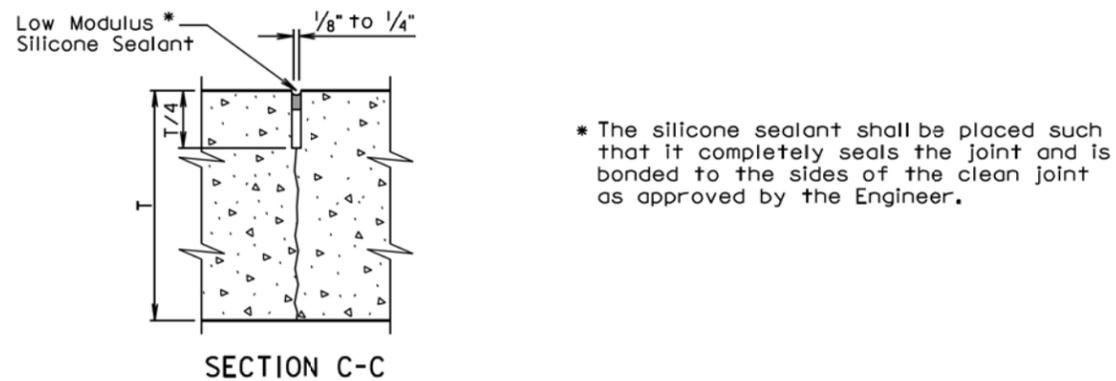
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SECTIONAL VIEW
(Curb and Gutter Placed Monolithic with Adjacent Mainline PCC Pavement)



SECTIONAL VIEW
(Curb and Gutter not Placed Monolithic with Adjacent Mainline PCC Pavement or Mainline Surfacing is not PCC Pavement)

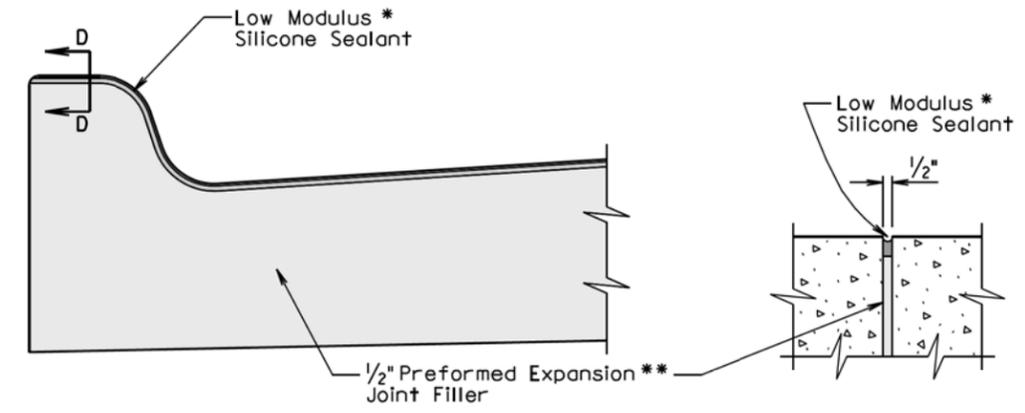


* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

September 6, 2013

S D D O T	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
		Sheet 1 of 2

Published Date: 3rd Qtr. 2015



SECTIONAL VIEW
(Curb and Gutter at 1/2" Preformed Expansion Joint Filler Location)

* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

GENERAL NOTES:

For illustrative reason, only the type B curb and gutter is shown.

** A 1/2" preformed expansion joint filler shall be placed transversely in the curb and gutter at the following locations:

1. At each junction between the radius return of curb and gutter and curb and gutter which is parallel to the project centerline.
2. At each junction between new curb and gutter and existing curb and gutter.

Transverse contraction joints shall be constructed at 10' intervals in the concrete curb and gutter except when the concrete curb and gutter is constructed adjacent to mainline PCC pavement. When concrete curb and gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint shall be constructed in the concrete curb and gutter at each mainline PCC pavement transverse contraction joint location.

When concrete curb and gutter is not placed monolithically with the mainline PCC pavement or when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete curb and gutter shall be 1/2 inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint shall be at least 1/4 the thickness of the concrete and the joint shall be sealed in accordance with the details shown above.

September 6, 2013

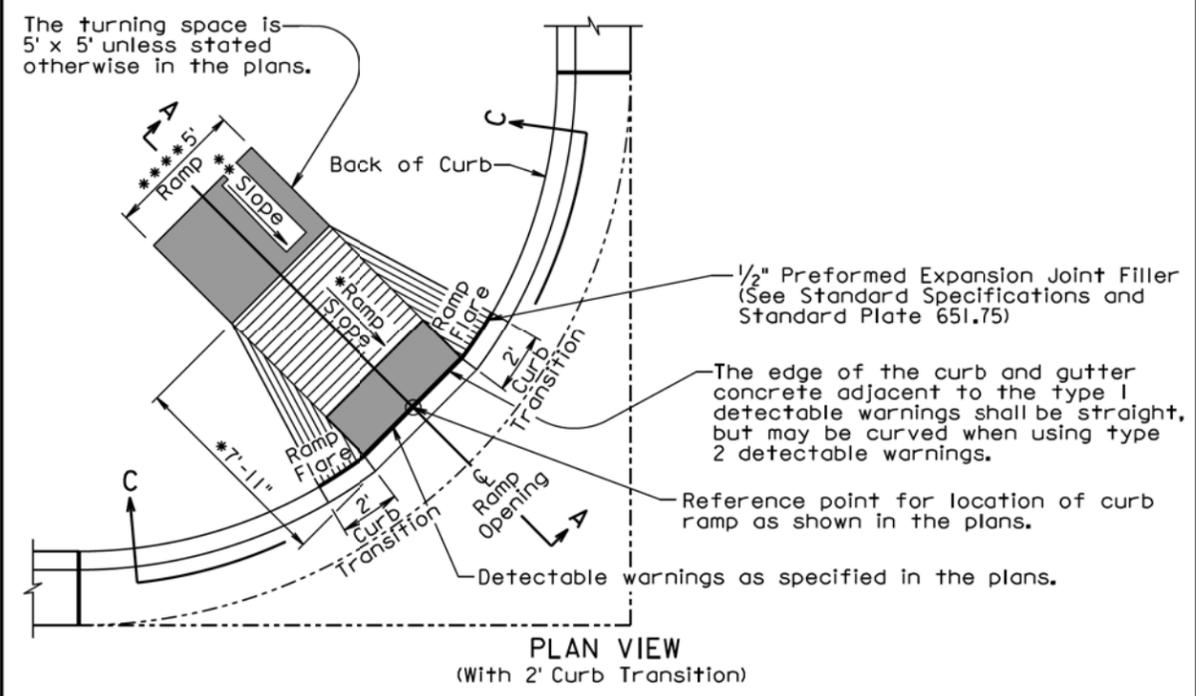
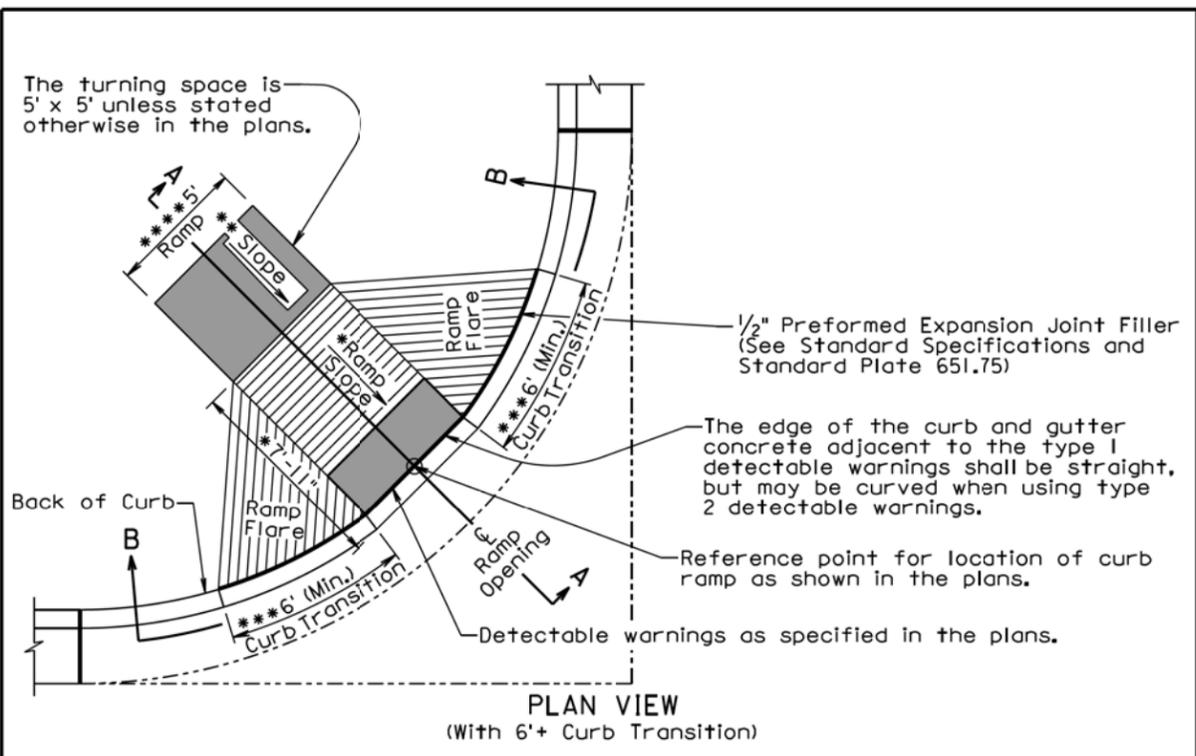
S D D O T	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
		Sheet 2 of 2

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- Plotted From - tpr17192

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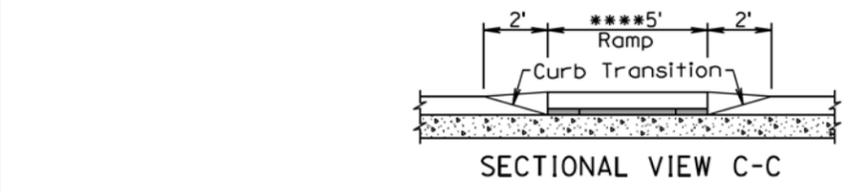
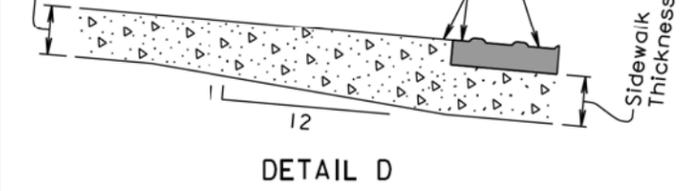
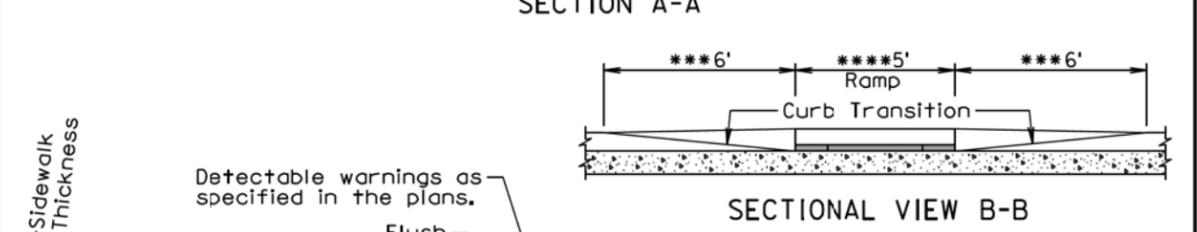
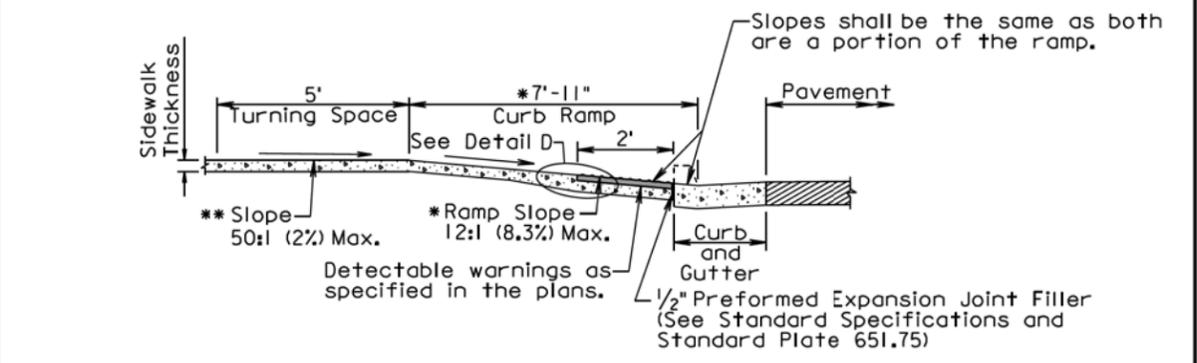
Plot Scale - 1:200



September 6, 2013

SD DOT	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
	Published Date: 3rd Qtr. 2015	Sheet 1 of 3

- * The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.
- * The cross slope of the ramp shall not be steeper than 50:1 (2%).
- * The 7'-11" dimension was computed based on a flat roadway profile, a continuous 2% theoretical slope from top of theoretical curb to the top of ramp, and a 6" high curb. The dimension shall be adjusted based on the curb type shown in the plans, the roadway geometrics, and the sidewalk geometrics.
- ** The slope in the turning space shall not be steeper than 50:1 (2%) in any direction of pedestrian travel.
- *** The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than 10:1 (10%) unless stated otherwise in the plans.
- **** The ramp width is 5' unless stated otherwise in the plans.



September 6, 2013

SD DOT	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
	Published Date: 3rd Qtr. 2015	Sheet 2 of 3

- Plotted From - tpr17192

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GENERAL NOTES:

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, PCC fillet sections are shown in the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter.

For illustrative purpose only, the curb ramp location is shown at the center of a PCC fillet section. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp flares when a 2' curb transition is used unless shown otherwise in the plans.

* Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings shall be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings shall be incidental to the corresponding detectable warning bid item.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

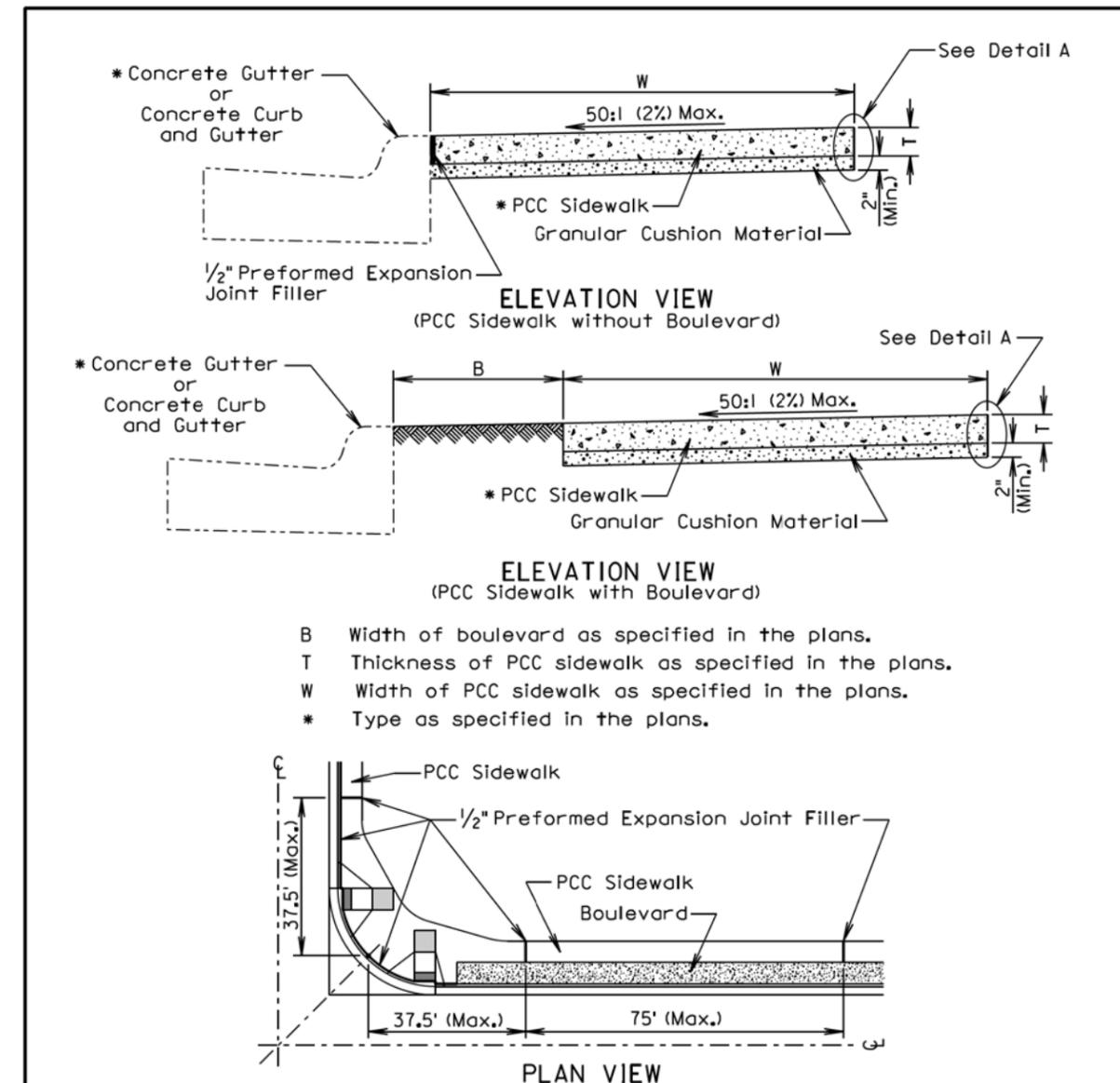
The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type 1 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 1 detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

The type 2 detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

September 6, 2013

S D D O T	TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)	PLATE NUMBER 651.01
		Sheet 3 of 3
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- B Width of boulevard as specified in the plans.
 T Thickness of PCC sidewalk as specified in the plans.
 W Width of PCC sidewalk as specified in the plans.
 * Type as specified in the plans.

GENERAL NOTES:

The PCC sidewalk shall be constructed in accordance with Section 651 of the Standard Specifications.

The maximum length between expansion joints in PCC sidewalk is 75 feet.

PCC sidewalk placed adjacent to intersection of roadways shall have an expansion joint placed transversely a maximum of 37.5 feet from the intersection. See PLAN VIEW.

An expansion joint in PCC sidewalk shall consist of a 1/2 inch thick preformed expansion joint filler material placed full depth and width of the PCC sidewalk.

** Large areas of PCC pavement adjacent to PCC sidewalk may require a different joint treatment than shown in the detail. If a different joint detail is necessary, plans will contain the joint detail and the Contractor shall construct the joint treatment in accordance with the plans.

August 31, 2013

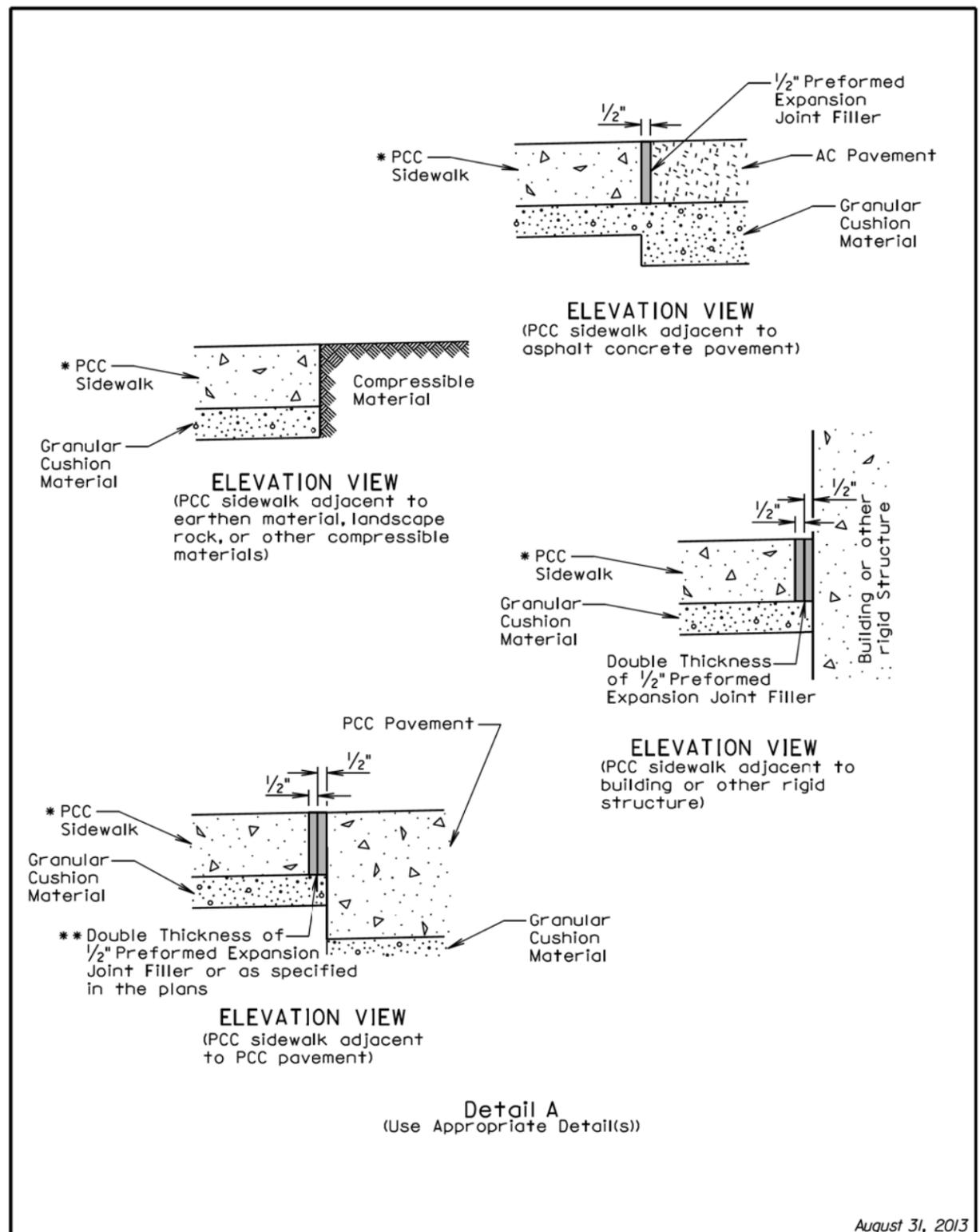
S D D O T	PCC SIDEWALK	PLATE NUMBER 651.75
		Sheet 1 of 2
		Published Date: 3rd Qtr. 2015

Plotting Date: 08/13/2015

Plot Scale - 1:200

- Plotted From - tpr17192

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August 31, 2013

S D D O T	PCC SIDEWALK	PLATE NUMBER 651.75
		Sheet 2 of 2

Published Date: 3rd Qtr. 2015