

Section F: Surfacing Plans

SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	1/32

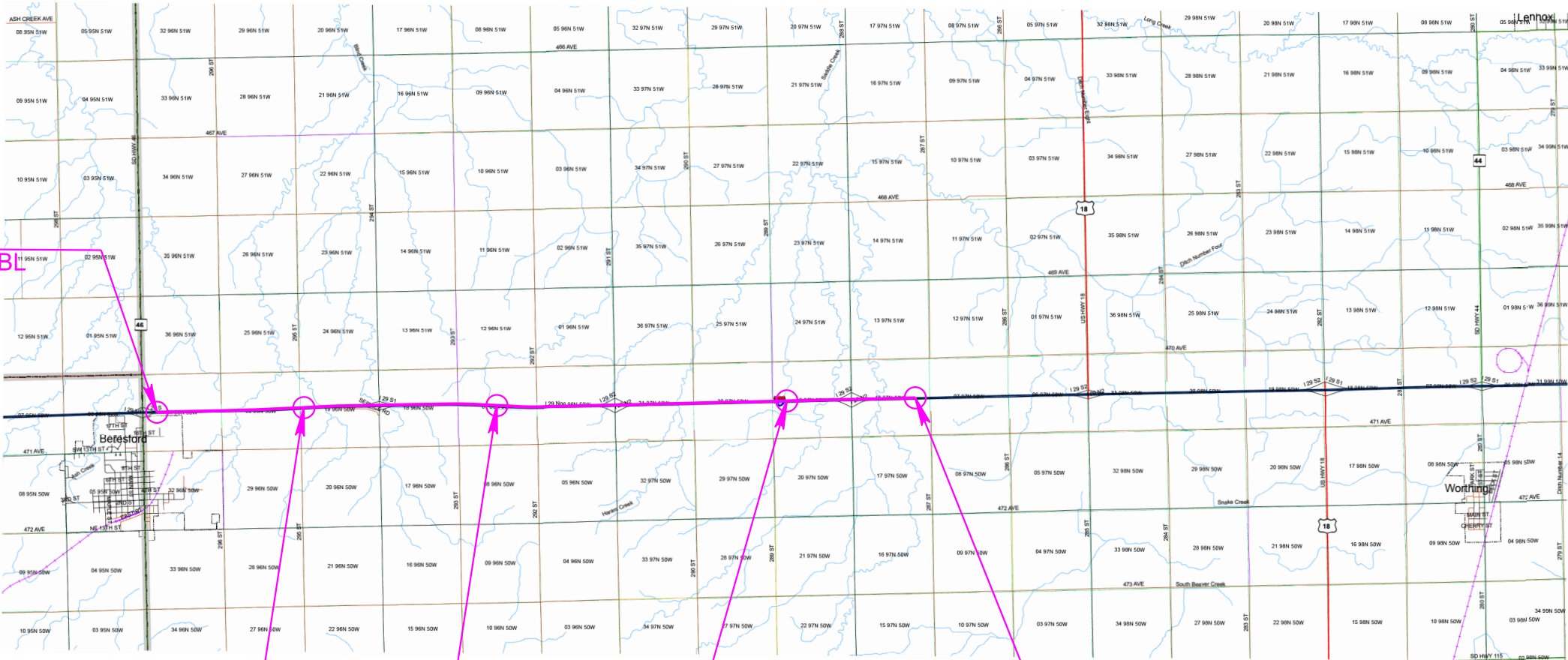
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BEGIN IM 0292(100)55
BEGIN Project
MRM 48.00+0.00 SBL & NBL
Existing Median Crossover



Inventory Management ATR
MRM 49.00+0.326

Install Median Crossover
MRM 51.00+0.80

Install Median Crossover
MRM 55.00+0.40

End IM 0292(100)55
End Project

Install Median Crossover
MRM 57.00+0.30

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SECTION F – ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	1.592	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E7020	Remove Interim Crossover Closure for Reset	280	Ft
120E0010	Unclassified Excavation	4,606	CuYd
120E6200	Water for Granular Material	253.6	MGal
120E9000	Pit Run	12,675.0	Ton
260E1010	Base Course	8,476.0	Ton
320E1200	Asphalt Concrete Composite	6,566.0	Ton
332E0010	Cold Milling Asphalt Concrete	3,419	SqYd
450E4749	15" CMP 16 Gauge, Furnish	1,000	Ft
450E4750	15" CMP, Install	1,000	Ft
450E5005	15" CMP Elbow, Furnish	8	Each
450E5006	15" CMP Elbow, Install	8	Each
450E5100	CMP Tee, Furnish	2	Each
450E5101	CMP Tee, Install	2	Each
450E5402	15" CMP Safety End, Furnish	6	Each
450E5403	15" CMP Safety End, Install	6	Each
450E6119	15" Slotted CMP 16 Gauge, Furnish	900	Ft
450E6120	15" Slotted CMP, Install	900	Ft
462E0100	Class M6 Concrete	78.9	CuYd
464E0100	Controlled Density Fill	66.6	CuYd
600E0200	Type II Field Laboratory	1	Each
629E9010	Interim Crossover Closure	1,350	Ft
629E9060	Reset Interim Crossover Closure	280	Ft
831E0210	Non-woven Separator Fabric	13,817	SqYd

CONTROL OF ACCESS

If a Contractor's operations would require access to the interstate ROW in any locations not currently designated as public access, prior approval must be obtained from the Department. All requests will be reviewed based on safety and construction sequencing. A Contractor will not assume that all requests will be granted.

Anytime Contractor operations have ceased for the day, any entrances approved in a control of access area will be closed by the Contractor.

The request for access will be provided in writing to the Engineer two weeks in advance of any proposed break in control of access.

SURFACING THICKNESS DIMENSIONS

Plans quantity will be applied though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans quantity may be varied to achieve the required elevation.

UTILITIES

The Contractor will contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It will be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities. If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the Engineer to determine modifications that will be necessary to avoid utility impacts.

Listed below are the Utility Contacts for the project that were gathered by running a South Dakota 811 Informational Ticket on September 11th, 2025. Please provide these to the Contractor and include the list after the Standard Utility Note in the plans.

Jeff Hove
Alliance Communications Cooperative, Inc.
1400 E Aspen Blvd
Brandon, SD 57005
O: (605) 582-6311
C: (605) 941-7035
E: JeffH@Alliance.Coop

Brian Matson
Finley Engineering Co. Inc., (AT&T Consultant)
1981 Engebretson Street
Slayton MN 56172
O: 507-777-2000
D: 507-777-2256
F: 507-777-2200
C: 507-920-7319
E: b.matson@finleyusa.com

Gabreil Perez
Network Technical Specialist (Sioux Falls Onsite Local Locator)
3000 W 10TH ST
SIOUX FALLS, SD 57104
C: 786-650-4336
E: gp8061@att.com

Lawrence Escobin
SDN COMMUNICATIONS, INC.
2900 W 10TH ST
SIOUX FALLS, SD 57104-2543
O: (605) 978-1094: *Goes straight to C if not In-Office.*
C: (605) 310-7238
E: Lawrence.Escobin@SDNCommunications.com

John Stearns
South Lincoln Rural Water System, Inc.
28647 472nd Ave
Beresford, SD 57004
O: (605) 777-9905
E: John.Stearns@SLRWS.com

John Euchner
Southeastern Electric Cooperative, Inc.
47077 276th St
Lennox, SD 57039
O: (800) 333-2859
P: (605) 310-2684
E: JohnE@Southeastern.coop

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Southeastern Electric Cooperative, Inc. Onsite Contact
Line Superintendent
Duane Pulse
C:605-421-9769
E: duane@southeastern.coop

Jordan Huber
Bluepeak
5100 S Broadband Rd
Sioux Falls, SD 57108
O: (605) 498-4922
P: (605) 366-1360
E: Jordan.Huber@MyBluepeak.com

TYPE II FIELD LABORATORY

The lab will be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection will be provided with a multi-port wireless router. The internet connection will be a minimum speed of 5 Mbps unless limited by job location and approved by the DOT. Prior to installing the wireless router, the Contractor will submit the wireless router's technical data to the Area Office to check for compatibility with the state's computer equipment. The internet connection is intended for state personnel usage only. The Contractor's personnel are prohibited from using the internet connection unless pre-approved by the Project Engineer. These items will be incidental to the contract unit price per each for "Type II Field Laboratory".

ASPHALT CONCRETE COMPOSITE

Asphalt Concrete Composite will include MC-70 Asphalt for Prime placed at the rate of 0.30 gallons per square yard. The Asphalt for Prime will be applied to the Base Course for the full width of the bottom layer of Asphalt Concrete Composite plus one foot additional on the outside shoulder.

Asphalt for tack SS-1h or CSS-1h will be applied prior to each lift of Asphalt Concrete Composite. Asphalt for tack will be applied at a rate of 0.09 gallons per square yard on existing pavement or milled asphalt concrete surfaces and at a rate of 0.06 gallons per square yard on primed base course or new asphalt concrete pavement. The Asphalt for tack will be applied for the full width of the bottom layer of Asphalt Concrete Composite plus one-half foot additional on the outside shoulder. Flush seal is covered in Section 324 of the Specifications.

Asphalt for flush seal and sand for flush seal will be required.

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SUMMARY OF ASPHALT CONCRETE COMPOSITE

Location	Asphalt Concrete Composite (Ton)
Median Crossovers	
Median Crossover - North of Exit 47, MRM 48.00+0.00	797.0
Median Crossover - North of Exit 50, MRM 51.00+0.80	1,923.0
Median Crossover - South of Exit 56, MRM 55.00+0.40	1,923.0
Median Crossover - North of Exit 56, MRM 57.00+0.30	1,923.0
Total:	6,566.0

PIT RUN MATERIAL

Pit Run material will be obtained from a granular source conforming to Section 120 of the Specifications.

Minimum compaction testing requirements will be one test per crossover location.

Non-woven Separator Fabric has been included in the Estimate of Quantities. This fabric is to be used as a separator between the Pit Run and the Base Course to prevent migration of fines from the Base Course into the Pit Run. If the Pit Run Material contains enough fines as placed to prevent the loss of material from the Base Course, the separator fabric may be eliminated by CCO. Non-woven Separator Fabric will conform to Section 831 of the Specifications.

IN PLACE AUTOMATIC TRAFFIC RECORDER

The SDDOT Office of Inventory Management & Research has a permanent Automatic Traffic Recorder (ATR) located on I-29 N & I-29 S, MRM 49.00 + 0.329.

The Contractor will not damage the existing loops, pull boxes, conduit, or electronics cabinet. Any pull boxes, conduit, cabinet, or loops damaged during the construction project will be replaced by the Contractor at the Contractors expense. The loops are visible on the roadway. If necessary, SDDOT Office of Inventory Management & Research will aide in locating loops. Contact 605-773-6644, or 605-773-3278 to notify the office and request assistance to locate the ATR.

NON-WOVEN SEPARATOR FABRIC

Non-woven Separator Fabric has been included in the Estimate of Quantities for the median crossovers. This fabric is to be used as a separator between the Pit Run material and the Base Course to prevent migration of fines from the Base Course into the Pit Run material. If the Pit Run material contains enough fines as placed to prevent the loss of material from the Base Course, the separator fabric may be eliminated by CCO. Non-woven Separator Fabric will conform to Section 831 of the Specifications.

TABLE OF NON-WOVEN SEPARATOR FABRIC

Location	Non-woven Separator Fabric (SqYd)
Median Crossovers	
Median Crossover - North of Exit 47, MRM 48.00+0.00	548
Median Crossover - North of Exit 50, MRM 51.00+0.80	4,289
Median Crossover - South of Exit 56, MRM 55.00+0.40	4,587
Median Crossover - North of Exit 56, MRM 57.00+0.30	4,393
Total:	13,817

Non-woven Separator Fabric will be paid for at the contract unit price per square yard of fabric placed. Payment for this item will be full payment for furnishing all equipment, labor and incidentals required to furnish and install the fabric.

CONTROLLED DENSITY FILL FOR MEDIAN Crossovers

Controlled density fill for median crossovers will be placed at the locations shown in the design layouts and the Table of Controlled Density Fill for Median Crossovers in accordance with Section 464.

Plans quantity will be the basis of measurement and payment unless changes are ordered by the Engineer.

TABLE OF CONTROLLED DENSITY FILL FOR MEDIAN Crossovers

Location – Median Crossovers	Controlled Density Fill (CuYd)
Median Crossover - North of Exit 50, MRM 51.00+0.80	22.2
Median Crossover - South of Exit 56, MRM 55.00+0.40	22.2
Median Crossover - North of Exit 56, MRM 57.00+0.30	22.2
Total:	66.6

CLASS M6 CONCRETE

Class M6 Concrete will be placed at the locations shown in the design layouts and the Table of Class M6 Concrete in accordance with Section 462 for Class M concrete.

Plans quantity will be the basis of measurement and payment unless changes are ordered by the Engineer.

TABLE OF CLASS M6 CONCRETE

Location – Median Crossovers	Class M6 Concrete (CuYd)
Median Crossover - North of Exit 50, MRM 51.00+0.80	26.3
Median Crossover - South of Exit 56, MRM 55.00+0.40	26.3
Median Crossover - North of Exit 56, MRM 57.00+0.30	26.3
Total:	78.9

UNCLASSIFIED EXCAVATION

An estimated 4,606 CuYds of Unclassified Excavation will be required. Plans quantity will be the basis of payment. Quantities will not be adjusted according to field measurements, see Typical Sections. The removal of all unclassified excavation waste material will conform to the requirements of Section 110.

TABLE OF UNCLASSIFIED EXCAVATION

Location of Removal Areas – Median Crossovers	Unclassified Excavation (CuYd)
Median Crossover - North of Exit 47, MRM 48.00+0.00	183
Median Crossover - North of Exit 50, MRM 51.00+0.80	1,430
Median Crossover - South of Exit 56, MRM 55.00+0.40	1,529
Median Crossover - North of Exit 56, MRM 57.00+0.30	1,464
Total:	4,606

CROSSOVER CLOSURES

See Special Details for placement and construction of the crossover closures. Where the existing asphalt concrete median shoulder will be removed, the existing asphalt concrete and/or PCCP will be sawed full depth to a true line with a vertical face. The cost for this sawing operation will be incidental to the contract unit price for asphalt concrete composite.

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TABLE OF CROSSOVER CLOSURES

Location – Median Crossovers	Interim Crossover Closure (Ft)
Median Crossover - North of Exit 47, MRM 48.00+0.00	150
Median Crossover - North of Exit 50, MRM 51.00+0.80	400
Median Crossover - South of Exit 56, MRM 55.00+0.40	400
Median Crossover - North of Exit 56, MRM 57.00+0.30	400
Total:	1,350

* See Standard Plate 629.42 for Interim Crossover Closures

REMOVE AND RESET CROSSOVER CLOSURES

Location – Median Crossovers	Interim Crossover Closure (Ft)
Median Crossover - North of Exit 47, MRM 48.00+0.00	280
Total:	280

* See Standard Plate 629.42 for Interim Crossover Closures

COLD MILLING ASPHALT CONCRETE

The Los Angeles Abrasion Loss value on the aggregate used for the in-place asphalt concrete was 21. This value was obtained from testing during construction of the in-place asphalt concrete.

Cold milling asphalt concrete will be done according to the typical section(s). In areas where maintenance patches have raised and/or widened the road, additional asphalt concrete will be milled to provide a uniform typical section from centerline to the edge of the finished shoulder. These areas also include farm, residential, field entrances and intersecting roads. Milling will be daylighted to the outside edge of the roadway. Any additional costs associated with this additional cold milling will be incidental to the contract unit price per square yard for “Cold Milling Asphalt Concrete”.

TABLE OF COLD MILLING ASPHALT CONCRETE

Location of Cold Milling Areas	Cold Milled Asphalt Concrete	Depth of Cold Milling Asphalt Concrete	Cold Milled Asphalt Concrete Tons
	SqYds		
Sta. 101+00.00 to 111+51.50	3,419	2”	379
TOTAL	3,419		379

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TABLE OF MATERIALS QUANTITIES

LOCATION Station to Station	WATER FOR GRANULAR MATERIAL (MGal)	PIT RUN (Ton)	BASE COURSE (Ton)	ASPHALT CONCRETE COMPOSITE		
				1st Lift	2nd Lift	Top Lift
				(Ton)	(Ton)	(Ton)
Median Crossovers						
Median Sta. 101+51.5, MRM 48.00+0.00	12.4	690.0	345.0	158.0	158.0	481.0
Median Sta. 201+51.5, MRM 51.00+080	80.3	3,995.0	2,702.0	721.0	721.0	481.0
Median Sta. 301+51.5, MRM 55.00+0.40	80.3	3,995.0	2,702.0	721.0	721.0	481.0
Median Sta. 401+51.5, MRM 57.00+0.30	80.3	3,995.0	2,702.0	721.0	721.0	481.0
Maintenance Crossover - Sta. 103+60	0.3		25.0			
Totals:	253.6	12,675.0	8,476.0	6,566.0		

TABLE OF PIPE AND RELATED ITEMS

Location – Median Crossovers	15" CMP (16 ga.), Furnish & Install (Ft)	15" CMP Elbow, Furnish & Install (Each)	CMP Tee, Furnish & Install (Each)	15" CMP Safety End, Furnish & Install (Each)	15" Slotted CMP (16 ga.), Furnish & Install (Ft)
Median Crossover - North of Exit 47, MRM 48.00+0.00	40	---	---	1	---
Median Crossover - North of Exit 50, MRM 51.00+0.80	466	3	1	2	300
Median Crossover - South of Exit 56, MRM 55.00+0.40	466	3	1	2	300
Median Crossover - North of Exit 56, MRM 57.00+0.30	28	2	---	1	300
Totals:	1,000	8	2	6	900

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TABLE OF CONSTRUCTION STAKING
(See Special Provision for Contractor Staking)

Roadway and Description	Begin Station	End Station	Number of Lanes	Grade Staking				
				Length (Ft)	Length (Mile)	Lane Factor	*Sets of Stakes	**Grade Staking Quantity (Mile)
I-29 Mainline - Stationing								
Median Crossover - North of Exit 47, MRM 48.00+0.00	101+00.00	111+51.50	2	1,051.50	0.199	1	2	0.398
Median Crossover - North of Exit 50, MRM 51.00+0.80	201+00.00	211+51.50	2	1,051.50	0.199	1	2	0.398
Median Crossover - South of Exit 56, MRM 55.00+0.40	301+00.00	311+51.50	2	1,051.50	0.199	1	2	0.398
Median Crossover - North of Exit 56, MRM 57.00+0.30	401+00.00	411+51.50	2	1,051.50	0.199	1	2	0.398
							Totals:	1.592

* 2 = Blue Top Grading Stakes and Paving Hub Stakes (AC Pavement)
** Grade Staking Quantity = (Length) x (Lane Factor) x (Sets of Stakes)

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HORIZONTAL ALIGNMENT DATA (PCN 075E - proposed project)

CoRd 140						Ramp B			
Type	Station			Northing	Easting	Type	Station	Northing	Easting
POB	0+00.000			341044.840	2908506.903	POB	0+00.000	341163.574	2911674.430
		TL= 4212.365	N87°51'11.816"E				TL= 877.464	N22°37'26.037"W	
PI	42+12.365			341202.629	2912716.312	PC	8+77.464	341973.517	2911336.887
		TL= 946.446	N87°47'55.639"E			PI	12+80.941	342345.946	2911181.677
POE	51+58.812			341238.981	2913662.060	PT	16+76.289	342748.967	2911162.501
							TL= 1823.711	N02°43'27.062"W	
						POE	35+00.000	344570.617	2911075.824
I29						Ramp C			
Type	Station			Northing	Easting	Type	Station	Northing	Easting
POB	10+00.000			337673.437	2911349.943	POB	0+00.000	338214.886	2911378.241
		TL= 7014.012	N02°43'27.062"W				TL= 1329.349	N02°43'27.062"W	
POE	80+14.012			344679.523	2911016.581	PC	13+29.349	339542.732	2911315.060
						PI	17+35.613	339948.537	2911295.751
Ramp A						PT	21+33.581	340336.400	2911416.632
Type	Station			Northing	Easting		TL= 866.416	N17°18'36.753"E	
POB	0+00.000			341126.863	2910695.068	POE	29+99.997	341163.574	2911674.430
		TL= 866.416	N17°18'36.753"E						
PC	8+66.416			341954.037	2910952.866	Ramp D			
PI	12+72.680	R = 2300.000	Delta = 20.034° L	342341.901	2911073.748	Type	Station	Northing	Easting
PT	16+70.648			342747.705	2911054.439	POB	0+00.000	337719.818	2911293.675
		TL= 1329.352	N02°43'27.062"W				TL= 1823.713	N02°43'27.062"W	
POE	30+00.000			344075.555	2910991.257	PC	18+23.713	339541.470	2911206.997
						PI	22+27.190	339944.491	2911187.821
						PT	26+22.539	340316.920	2911032.611
							TL= 877.464	N22°37'26.037"W	
						POE	35+00.002	341126.863	2910695.068

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. North Zone (NAD 83/2011); SF = 0.999839492. The elevations shown on this sheet are based on NAVD 88.

LEGEND

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Anchor		Hedge		Septic Tank		State and National Line	
Antenna		Highway ROW Marker		Shrub Tree		County Line	
Approach		Interstate Close Gate		Sidewalk		Section Line	
Assumed Corner		Iron Pin		Sign Face		Quarter Line	
Azimuth Marker		Irrigation Ditch		Sign Post		Sixteenth Line	
BBQ Grill/ Fireplace		Lake Edge		Slough Or Marsh		Sixty-Fourth Line	
Bearing Tree		Lawn Sprinkler		Spring		Property Line	
Bench Mark		Mailbox		Stream Gauge		Construction Line	
Box Culvert		Manhole Electric		Street Marker		ROW Line	
Bridge		Manhole Gas		Subsurface Utility Exploration Test Hole		New ROW Line	
Brush		Manhole Misc		Telephone Fiber Optics		Cut and Fill Limits	
Buildings		Manhole Sanitary Sewer		Telephone Junction Box		Control of Access	
Bulk Tank		Manhole Storm Sewer		Telephone Pole		New Control of Access	
Cattle Guard		Manhole Telephone		Television Cable Jct Box		Proposed ROW	
Cemetery		Manhole Water		Television Tower		(After Property Disposal)	
Centerline		Merry-Go-Round		Test Wells/Bore Holes			
Cistern		Microwave Radio Tower		Traffic Signal			
Clothes Line		Misc. Line		Trash Barrel		Drainage Arrow	
Control Point		Misc. Property Corner		Tree Belt			
Commercial Sign Double Face		Misc. Post		Tree Coniferous			
Commercial Sign One Post		Overhang Or Encroachment		Tree Deciduous			
Commercial Sign Overhead		Overhead Utility Line		Tree Stumps			
Commercial Sign Two Post		Parking Meter		Triangulation Station			
Concrete Symbol		Pedestrian Push Button Pole		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					
Fence Woven		Railroad Track					
Fire Hydrant		Railroad Trestle					
Flag Pole		Rebar					
Flower Bed		Rebar With Cap					
Gas Valve Or Meter		Reference Mark					
Gas Pump Island		Regulatory Sign One Post					
Grain Bin		Regulatory Sign Two Post					
Guardrail		Retaining Wall					
Guide Sign One Post		Riprap					
Guide Sign Two Post		River Edge					
Gutter		Rock And Wire Baskets					
Guy Pole		Rockpiles					
Haystack		Satellite Dish					

MEDIAN CROSSOVER LAYOUTS



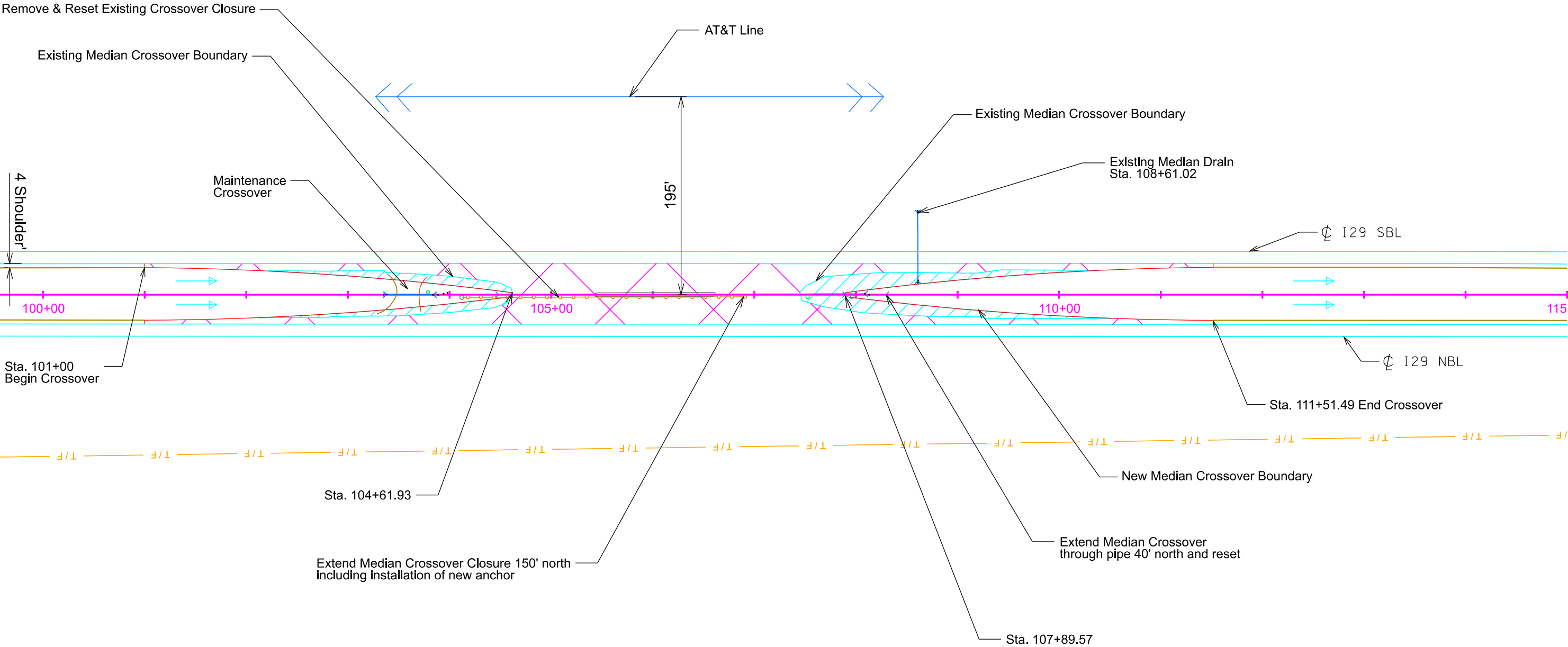
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Note: Maintain Median Drainage
Note: Do not Disturb Utilities

- 12" Base Course, 8" Asphalt Concrete Composite
- 2" Mill, 2" Asphalt Concrete Composite Overlay

MRM 48.00+0.00



CROSSOVER LAYOUT

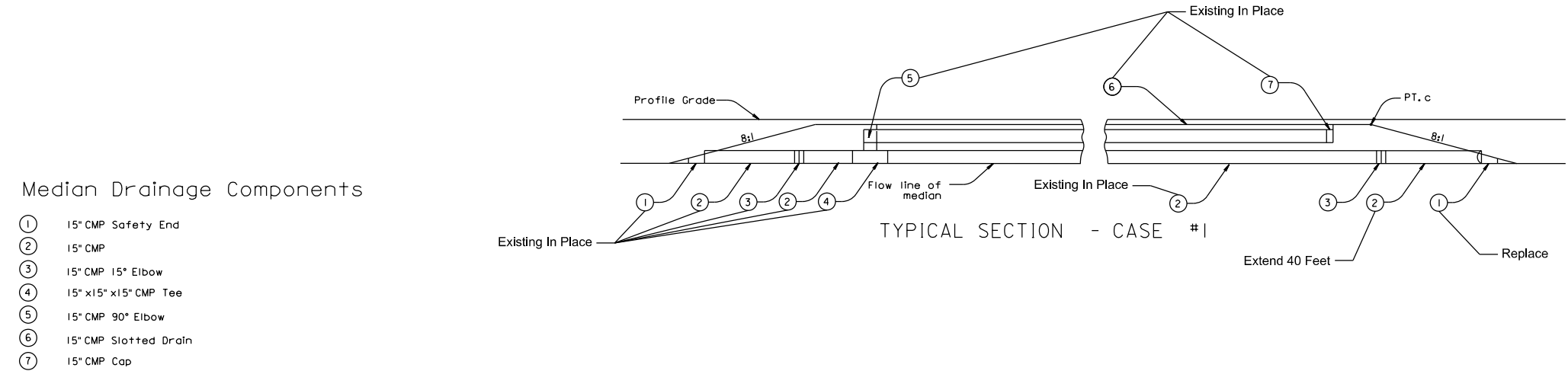
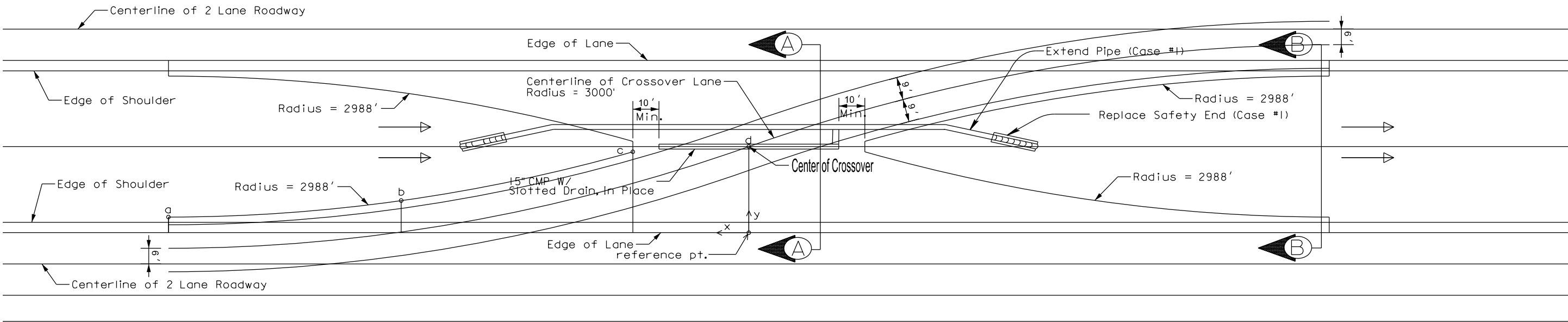


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MODIFY EXISTING MEDIAN CROSSOVER MRM 48.00+0.00 NBL & SBL

Point	60' MEDIAN		66' MEDIAN		80' MEDIAN	
	(x)	(y)	(x)	(y)	(x)	(y)
a	525.7'	6.0'	541.8'	6.0'	577.7'	6.0'
b	344.4'	11.5'	348.5'	12.3'	359.0'	14.0'
c	163.8'	28.0'	156.0'	31.0'	141.5'	38.0'
d	0'	30.0'	0'	33.0'	0'	40.0'



Median Drainage Components

- ① 15" CMP Safety End
- ② 15" CMP
- ③ 15" CMP 15° Elbow
- ④ 15" x 15" x 15" CMP Tee
- ⑤ 15" CMP 90° Elbow
- ⑥ 15" CMP Slotted Drain
- ⑦ 15" CMP Cap

GENERAL NOTES:

The intent of this plan is to show the construction requirements for median crossovers for various median widths.

Construction of median crossover will conform to the requirement of Current Standard Specifications.

Case #1 Median Crossover located on grades requiring through drainage.

Sections A-A & B-B depict the surfacing requirements.

Caps will be absorbed in the contract unit price per linear foot of 15" Slotted C.M.P. (14 ga.).

Price bid for contract items will be considered full compensation for furnishing all necessary materials and labor to construct the median crossover as detailed hereon.

Not Drawn to Scale

MEDIAN CROSSOVER
MRM 48.00+0.00
Sta. 101+00 to Sta. 111+51.49

SHEET 1 OF 3 SHEETS



	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	11/32

Plotting Date: 5/19/2026



MEDIAN CROSSOVER
MRM 48.00+0.00
Sta. 101+00 to Sta. 111+51.49

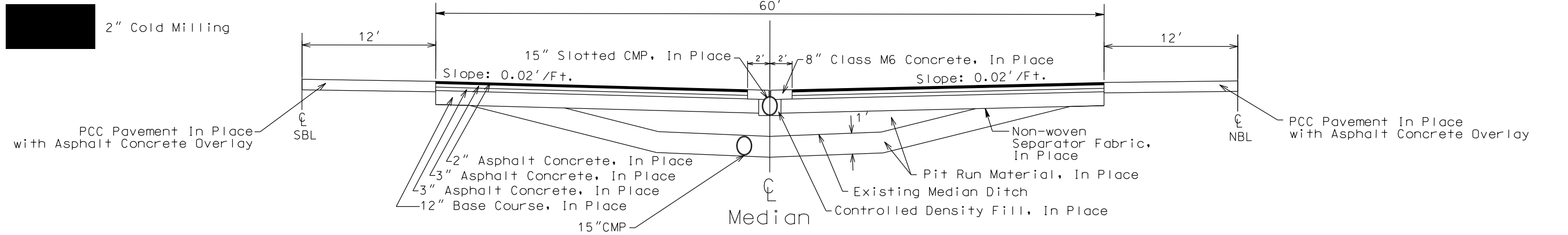
SHEET 2 OF 3 SHEETS

MEDIAN CROSSOVER TYPICALS

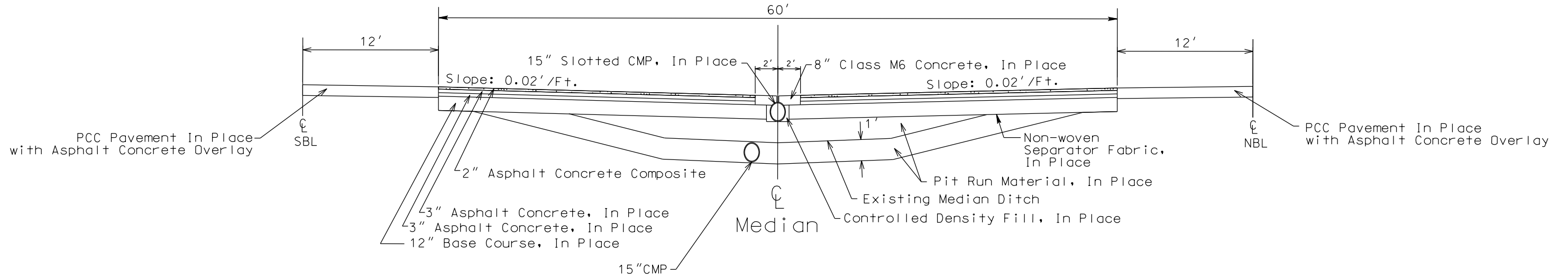
SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	12/32

Plotting Date: 5/19/2026

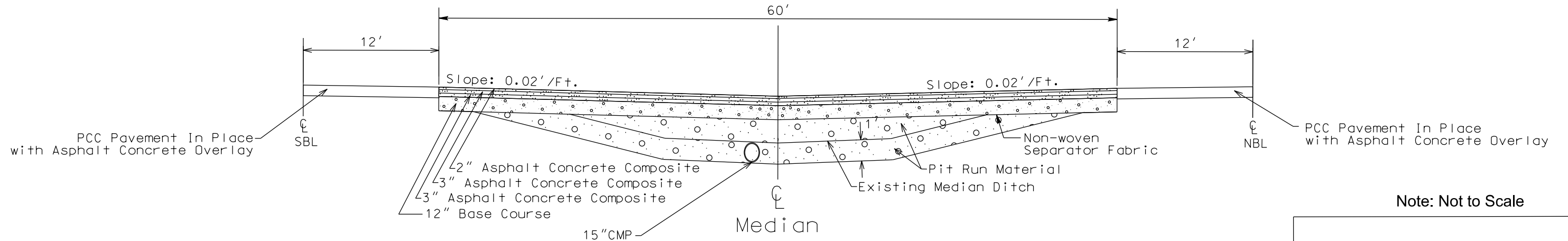
Sta. 101+00 to Sta. 111+06.85



Sta. 101+00 to Sta. 111+06.85



SECTION A-A
North End of Crossover
Extended 40 Feet



Note: Not to Scale

MEDIAN CROSSOVER
MRM 48.00+0.00
Sta. 101+00 to Sta. 111+51.49

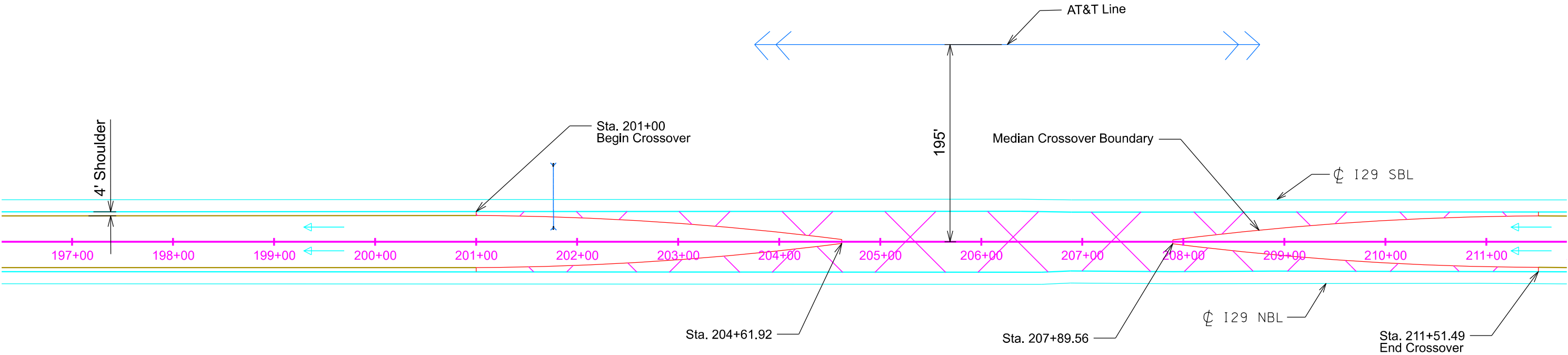
SHEET 3 OF 3 SHEETS

MEDIAN CROSSOVER LAYOUTS

MRM 51.00+0.80

Note:
Do not Disturb Utilities
Maintain Drainage


12" Base Course, 8" Asphalt Concrete Composite

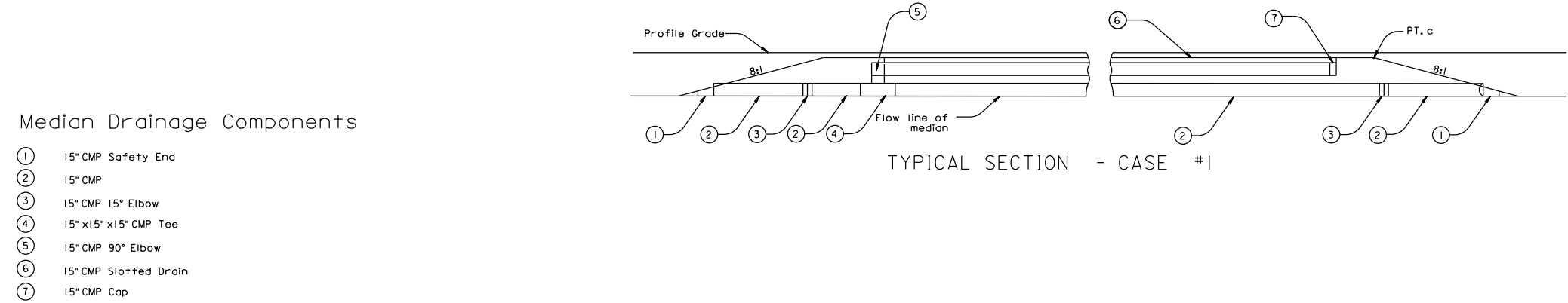
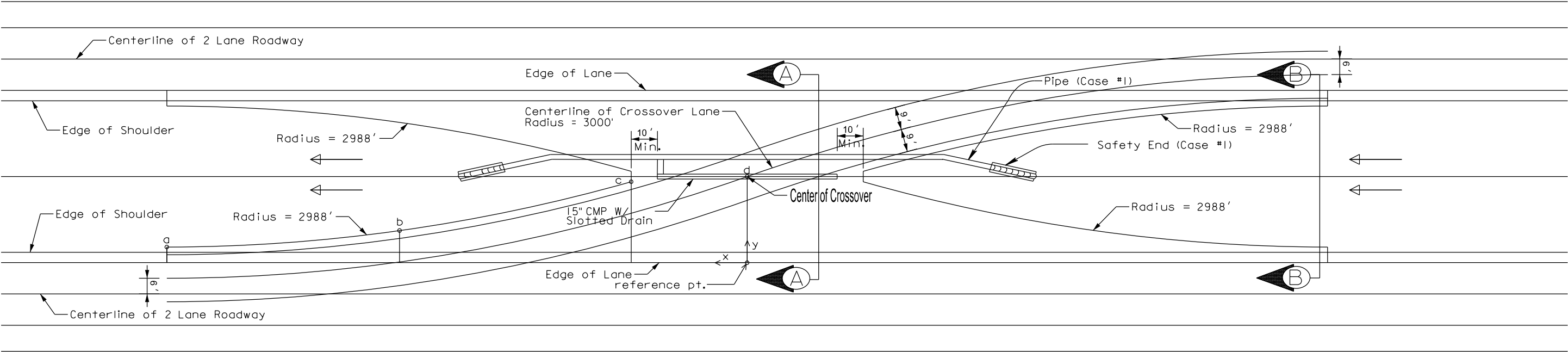


CROSSOVER LAYOUT

SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	14/32
Plotting Date: 5/19/2026			

INSTALL NEW MEDIAN CROSSOVER
MRM 51.00+0.80 NBL & SBL

Point	60' MEDIAN		66' MEDIAN		80' MEDIAN	
	(x)	(y)	(x)	(y)	(x)	(y)
a	525.7'	6.0'	541.8'	6.0'	577.7'	6.0'
b	344.4'	11.5'	348.5'	12.3'	359.0'	14.0'
c	163.8'	28.0'	156.0'	31.0'	141.5'	38.0'
d	0'	30.0'	0'	33.0'	0'	40.0'



GENERAL NOTES:

The intent of this plan is to show the construction requirements for median crossovers for various median widths.

Construction of median crossover will conform to the requirement of Current Standard Specifications.

Case #1 Median Crossover located on grades requiring through drainage.

Sections A-A & B-B depict the surfacing requirements.

Caps will be absorbed in the contract unit price per linear foot of 15" Slotted C.M.P. (14 ga.).

Price bid for contract items will be considered full compensation for furnishing all necessary materials and labor to construct the median crossover as detailed hereon.

Not Drawn to Scale

MEDIAN CROSSOVER
MRM 51.00+0.80

SHEET 1 OF 3 SHEETS

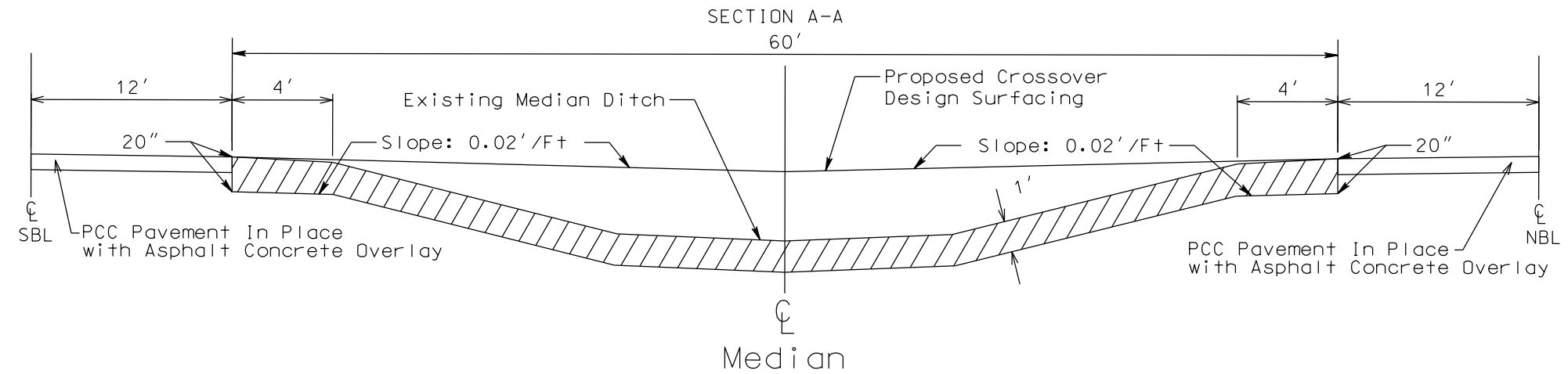
Unclassified Excavation

MEDIAN CROSSOVER REMOVAL



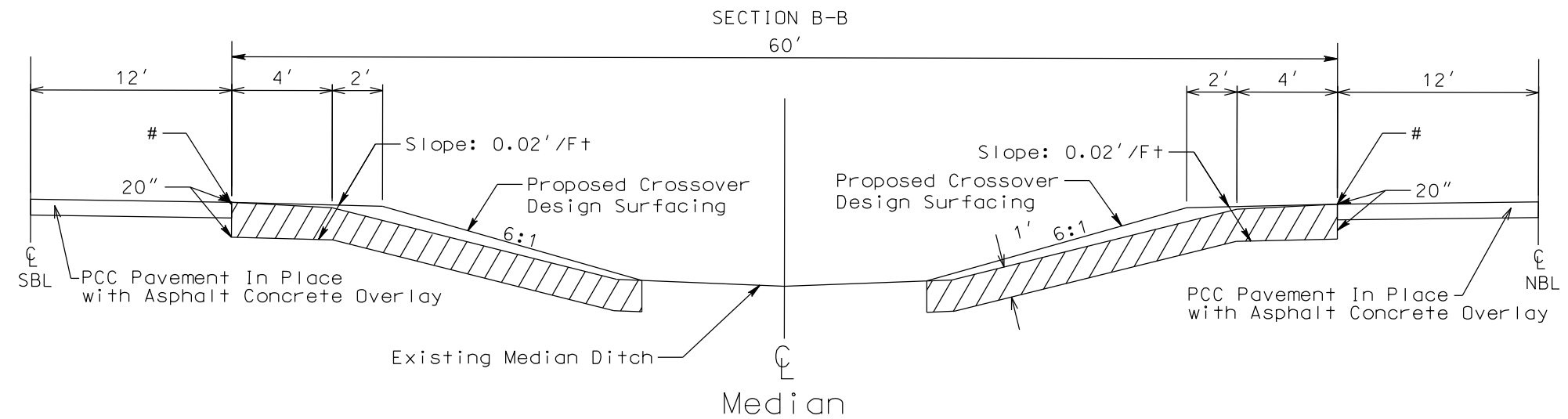
Plotting Date: 5/19/2026

PROJECT	SECTION	SHEET
IM 0292(100)55	F	15/32



Note:

These areas of I29 have pavement in place that covers the joint between the concrete and the asphalt shoulder. These removals will need to be saw cut and this work will be incidental to the various bid items for the construction of the median crossovers.



Note: Not to Scale

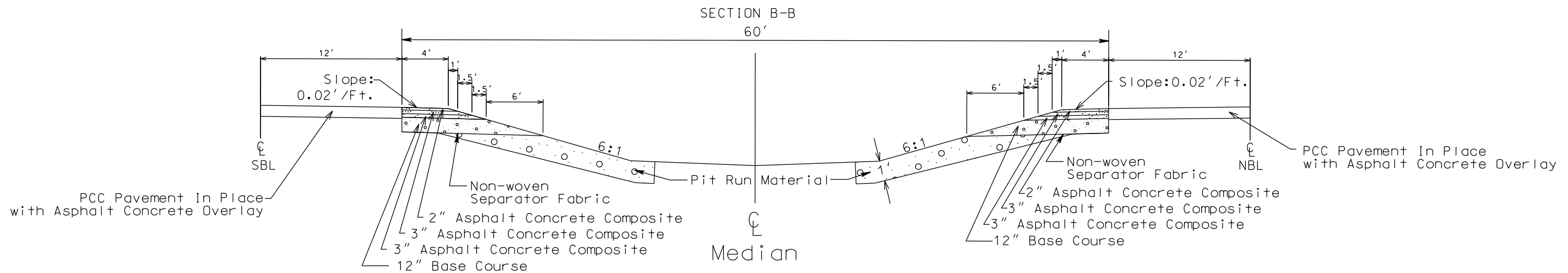
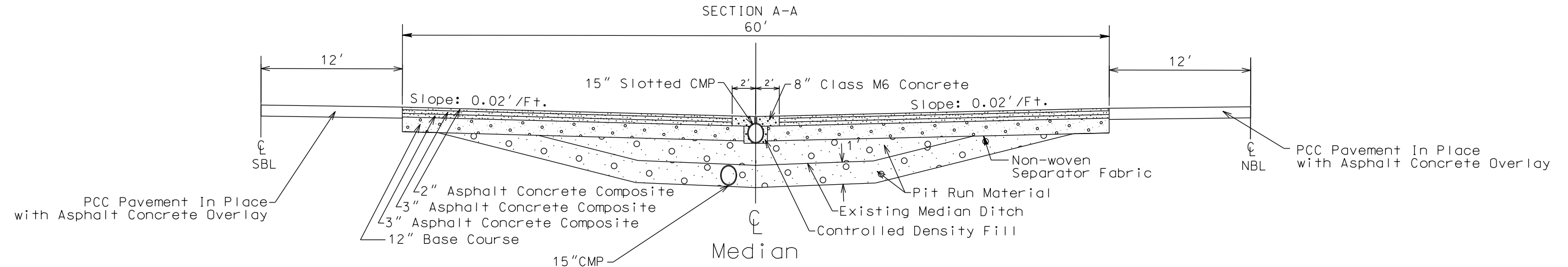
MEDIAN CROSSOVER
MRM 51.00+0.80

SHEET 2 OF 3 SHEETS

MEDIAN CROSSOVER TYPICALS

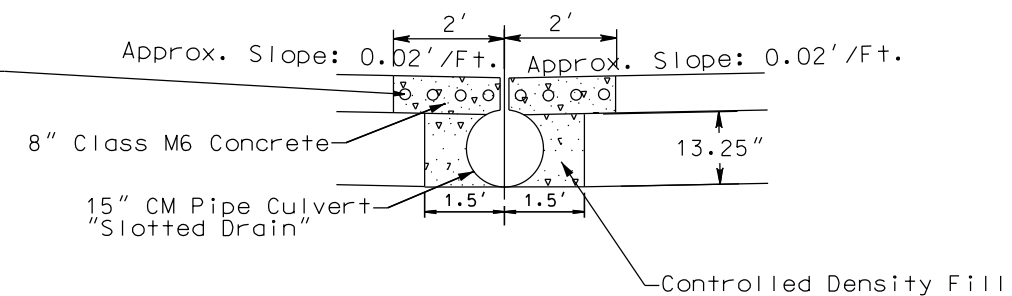
SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	16/32

Plotting Date: 5/19/2026



Detail for Epoxy Coated Bars in Class M6 Concrete

8 - #5 Epoxy Coated Reinforcing Steel Bars, spaced 5 5/8" center-to-center and centered in the slab vertically. Minimum lap length is 25". The cost of the #5 Epoxy Coated Reinforcing Steel Bars shall be incidental to the contract unit price per cubic yard for Class M6 Concrete.



Note: Not to Scale

MEDIAN CROSSOVER
MRM 51.00+0.80

SHEET 3 OF 3 SHEETS

CROSSOVER LAYOUT

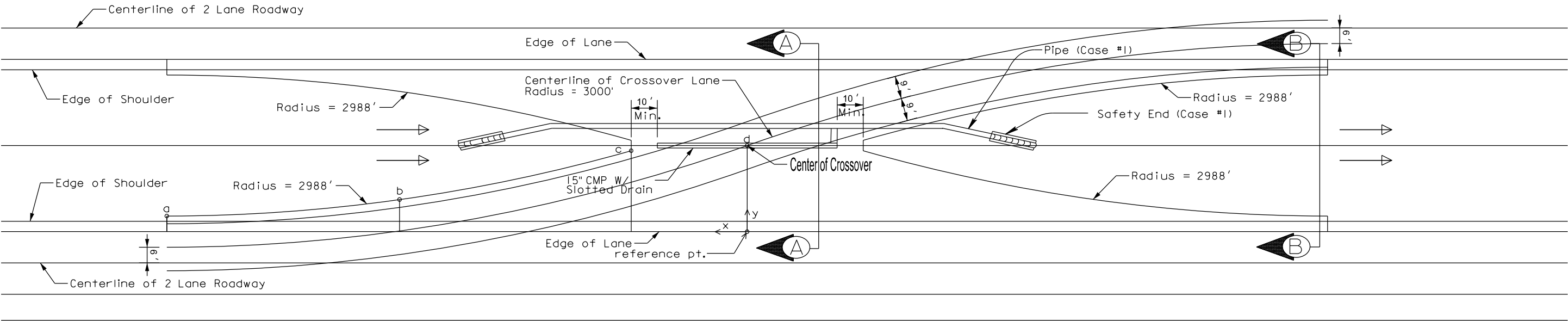


Plotting Date: 5/19/2026

PROJECT	SECTION	SHEET
IM 0292(100)55	F	18/32

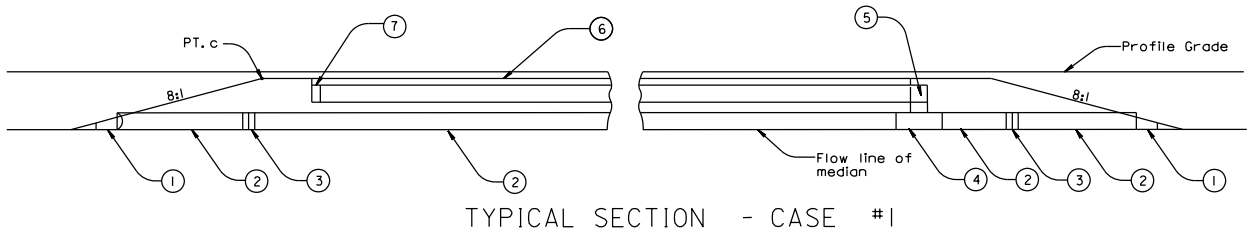
INSTALL NEW MEDIAN CROSSOVER MRM 55.00+0.40 NBL & SBL

Point	60' MEDIAN		66' MEDIAN		80' MEDIAN	
	(x)	(y)	(x)	(y)	(x)	(y)
a	525.7'	6.0'	541.8'	6.0'	577.7'	6.0'
b	344.4'	11.5'	348.5'	12.3'	359.0'	14.0'
c	163.8'	28.0'	156.0'	31.0'	141.5'	38.0'
d	0'	30.0'	0'	33.0'	0'	40.0'



Median Drainage Components

- ① 15" CMP Safety End
- ② 15" CMP
- ③ 15" CMP 15° Elbow
- ④ 15" x 15" x 15" CMP Tee
- ⑤ 15" CMP 90° Elbow
- ⑥ 15" CMP Slotted Drain
- ⑦ 15" CMP Cap



GENERAL NOTES:

The intent of this plan is to show the construction requirements for median crossovers for various median widths.

Construction of median crossover will conform to the requirement of Current Standard Specifications.

Case #1 Median Crossover located on grades requiring through drainage. Sections A-A & B-B depict the surfacing requirements.

Caps will be absorbed in the contract unit price per linear foot of 15" Slotted C.M.P. (14 ga.).

Price bid for contract items will be considered full compensation for furnishing all necessary materials and labor to construct the median crossover as detailed herein.

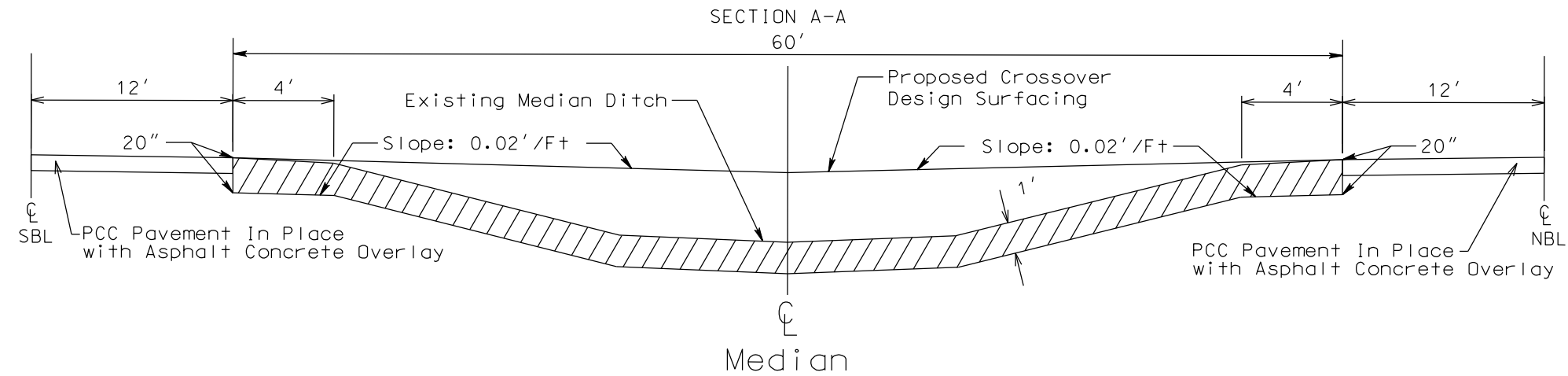
Unclassified Excavation

MEDIAN CROSSOVER REMOVAL



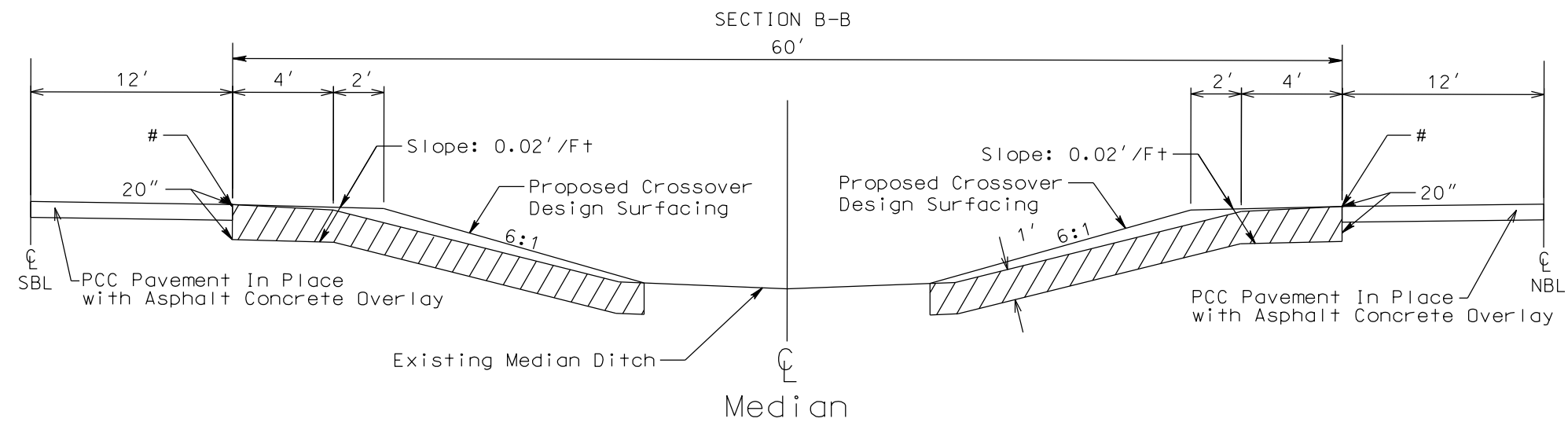
Plotting Date: 5/19/2026

PROJECT	SECTION	SHEET
IM 0292(100)55	F	19/32



Note:

These areas of I29 have pavement in place that covers the joint between the concrete and the asphalt shoulder. These removals will need to be saw cut and this work will be incidental to the various bid items for the construction of the median crossovers.



Note: Not to Scale

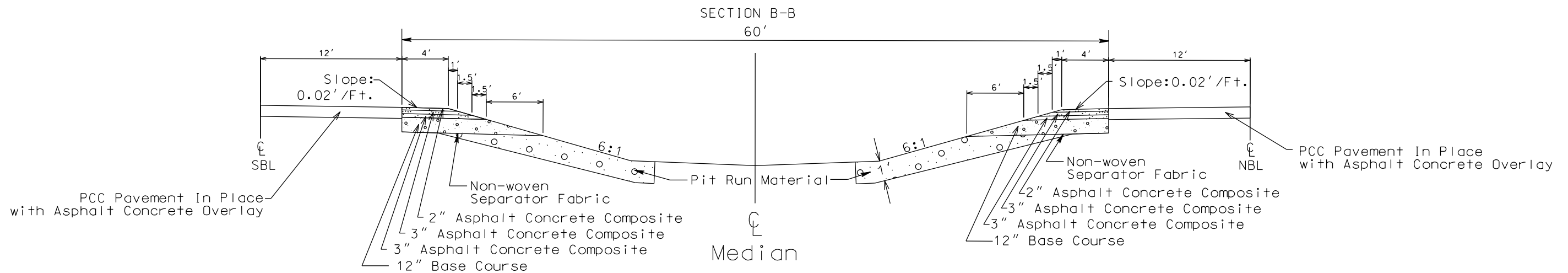
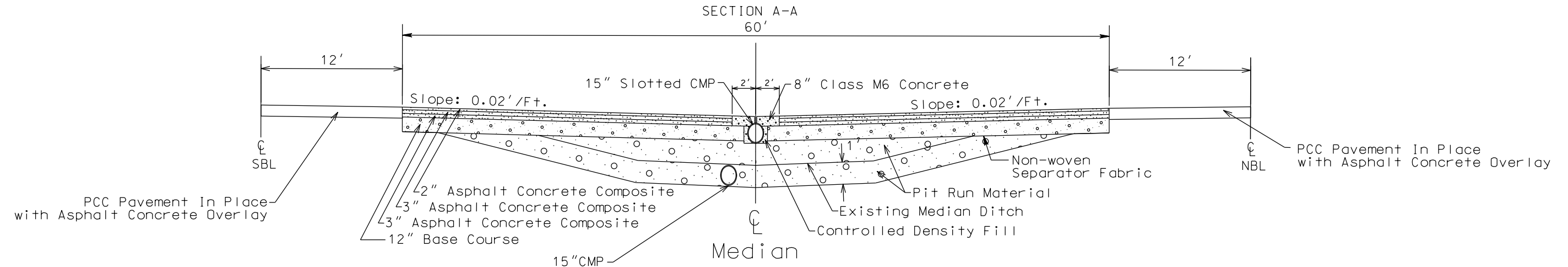
MEDIAN CROSSOVER
MRM 55.00+0.40
Sta. 301+00 to Sta. 311+51.49

SHEET 2 OF 3 SHEETS

MEDIAN CROSSOVER TYPICALS

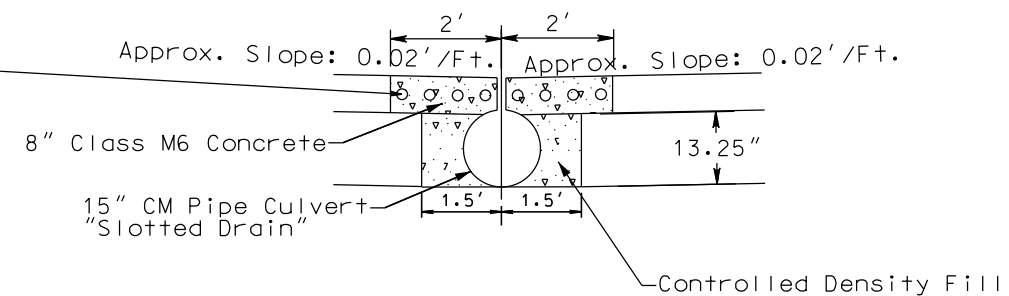
SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	20/32

Plotting Date: 5/19/2026



Detail for Epoxy Coated Bars
in Class M6 Concrete

8 - #5 Epoxy Coated Reinforcing Steel Bars, spaced 5 ⁵/₈" center-to-center and centered in the slab vertically. Minimum lap length is 25". The cost of the #5 Epoxy Coated Reinforcing Steel Bars shall be incidental to the contract unit price per cubic yard for Class M6 Concrete.



Note: Not to Scale

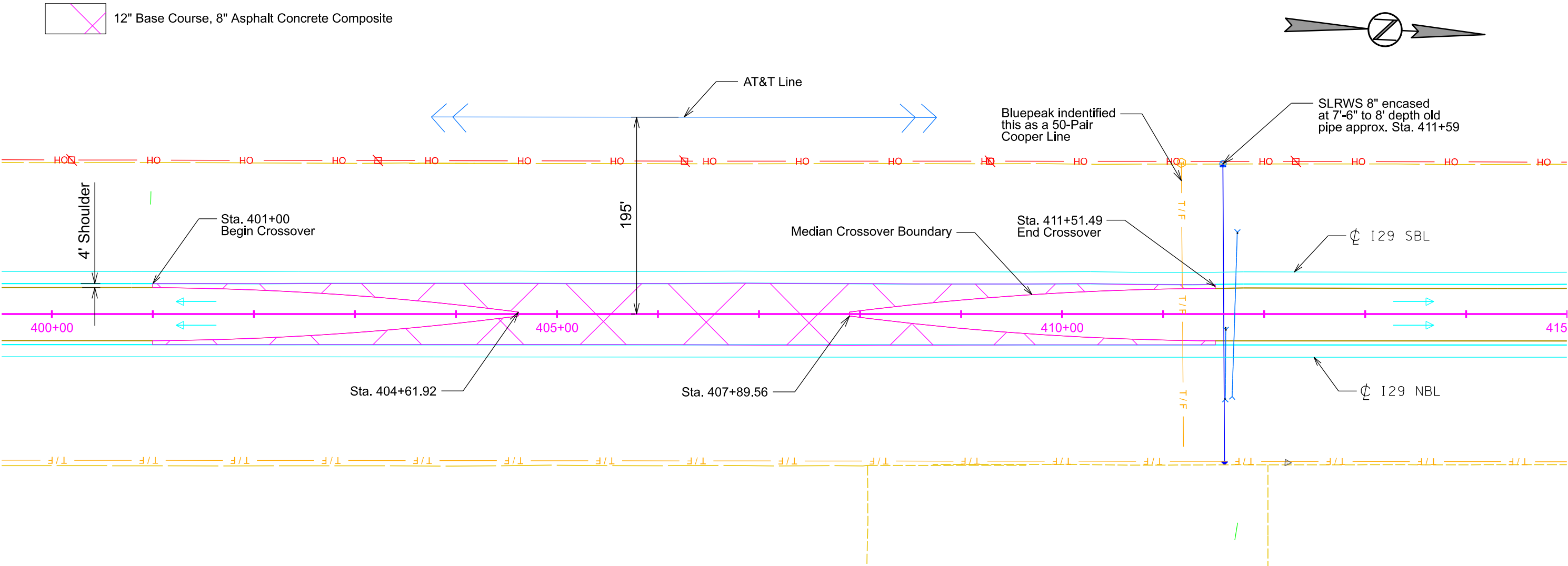
MEDIAN CROSSOVER
MRM 55.00+0.40
Sta. 301+00 to Sta. 311+51.49

SHEET 3 OF 3 SHEETS

MEDIAN CROSSOVER LAYOUTS

Note:
Do not Disturb Utilities

MRM 57.00+0.30

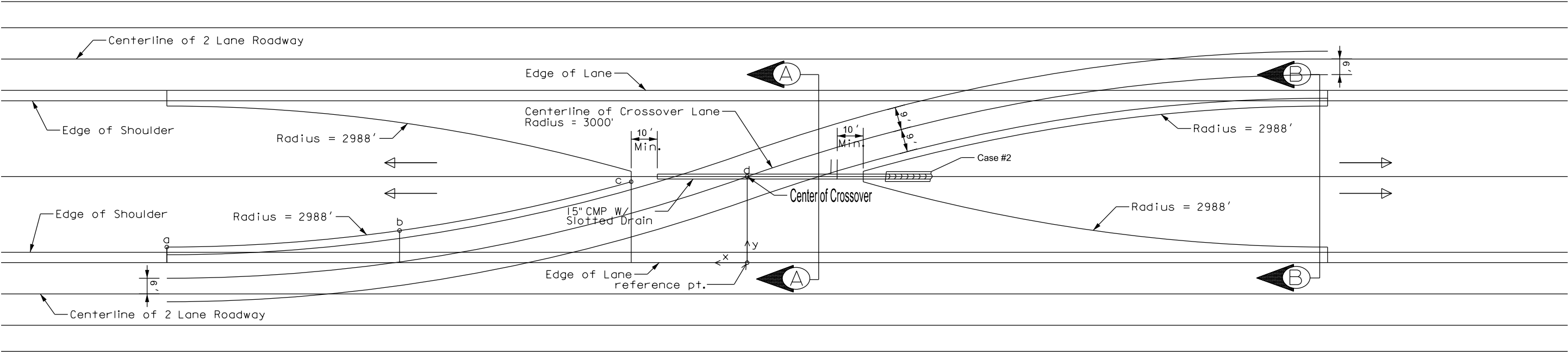


CROSSOVER LAYOUT

SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	22/32
Plotting Date: 5/19/2026			

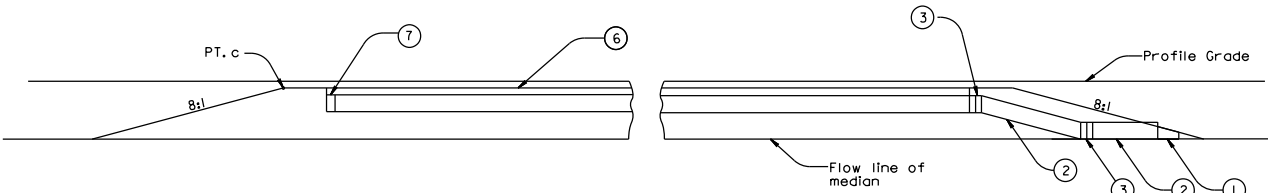
INSTALL NEW MEDIAN CROSSOVER MRM 57.00+0.30 NBL & SBL

Point	60' MEDIAN		66' MEDIAN		80' MEDIAN	
	(x)	(y)	(x)	(y)	(x)	(y)
a	525.7'	6.0'	541.8'	6.0'	577.7'	6.0'
b	344.4'	11.5'	348.5'	12.3'	359.0'	14.0'
c	163.8'	28.0'	156.0'	31.0'	141.5'	38.0'
d	0'	30.0'	0'	33.0'	0'	40.0'



Median Drainage Components

- ① 15" CMP Safety End
- ② 15" CMP
- ③ 15" CMP 15° Elbow
- ④ 15" x 15" x 15" CMP Tee
- ⑤ 15" CMP 90° Elbow
- ⑥ 15" CMP Slotted Drain
- ⑦ 15" CMP Cap



TYPICAL SECTION - CASE #2

GENERAL NOTES:

The intent of this plan is to show the construction requirements for median crossovers for various median widths.

Construction of median crossover will conform to the requirement of Current Standard Specifications.

Drainage Configurations are shown for Crossovers located on grades or summits illustrated by (Case #2). Slotted CMP Drains will be installed in multiples of ten feet.

Case #2 Median Crossover located on grades requiring no through drainage.

Sections A-A & B-B depict the surfacing requirements.

Caps will be absorbed in the contract unit price per linear foot of 15" Slotted C.M.P. (14 ga.).

Price bid for contract items will be considered full compensation for furnishing all necessary materials and labor to construct the median crossover as detailed hereon.

Not Drawn to Scale

MEDIAN CROSSOVER
MRM 57.00+0.30
Sta. 401+00 to Sta. 411+51.49
SHEET 1 OF 3 SHEETS

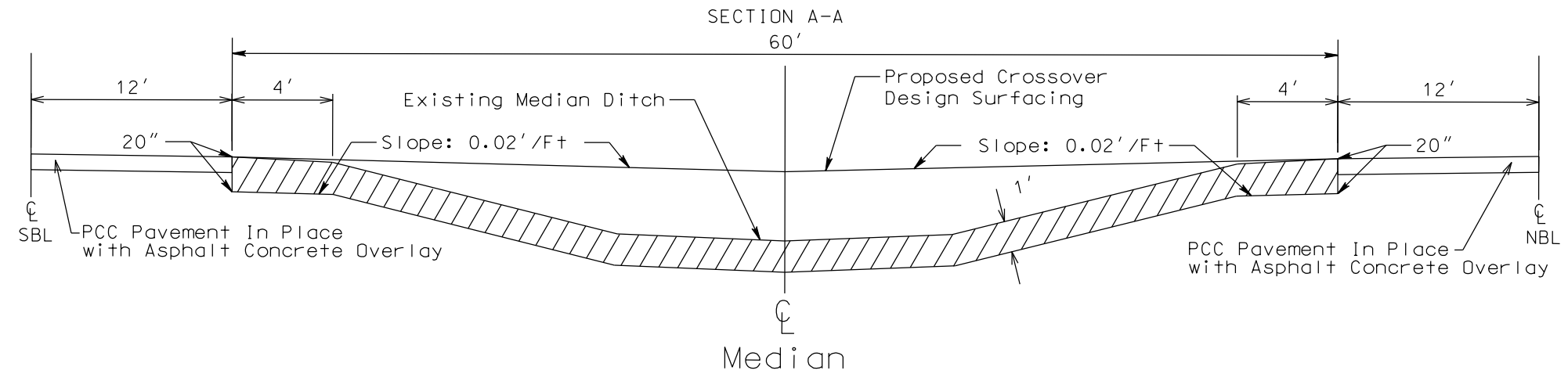
Unclassified Excavation

MEDIAN CROSSOVER REMOVAL



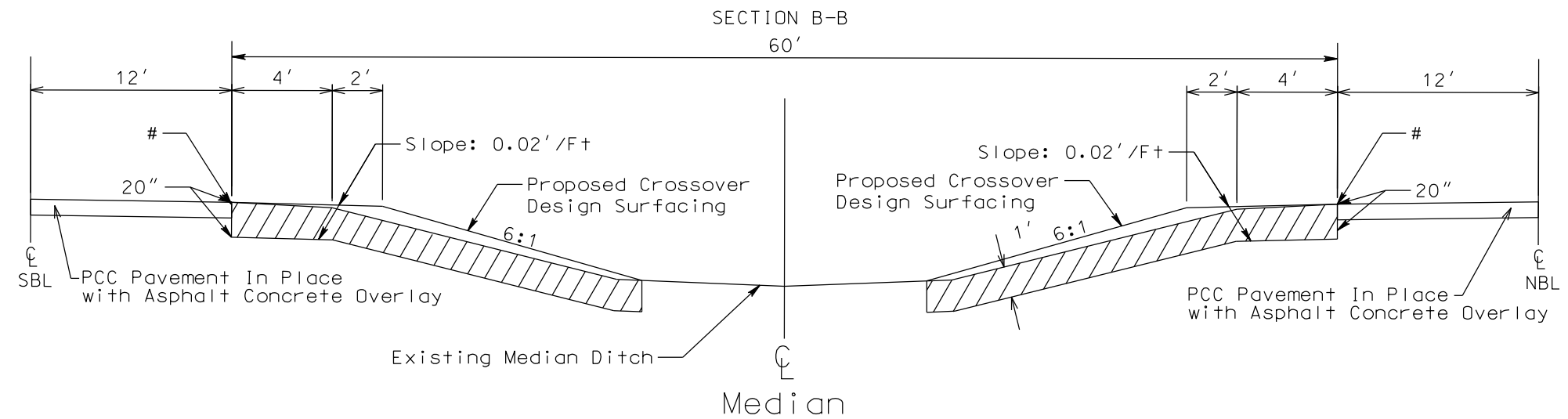
Plotting Date: 5/19/2026

PROJECT	SECTION	SHEET
IM 0292(100)55	F	23/32



Note:

These areas of I29 have pavement in place that covers the joint between the concrete and the asphalt shoulder. These removals will need to be saw cut and this work will be incidental to the various bid items for the construction of the median crossovers.



Note: Not to Scale

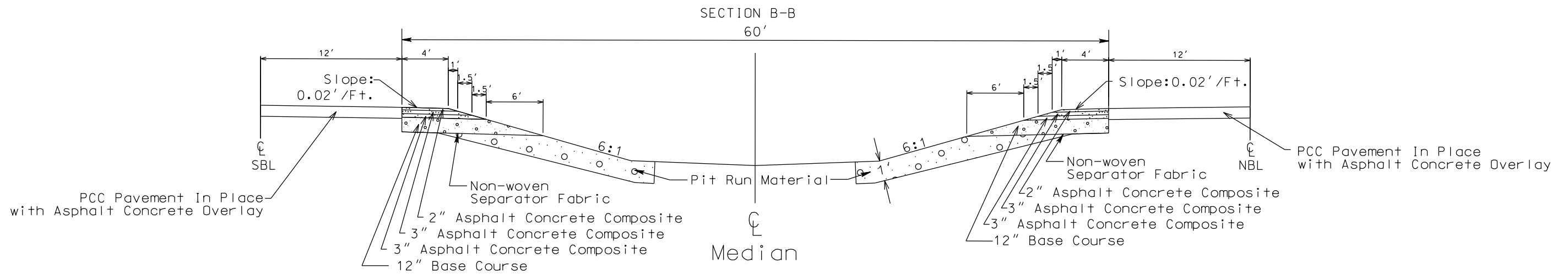
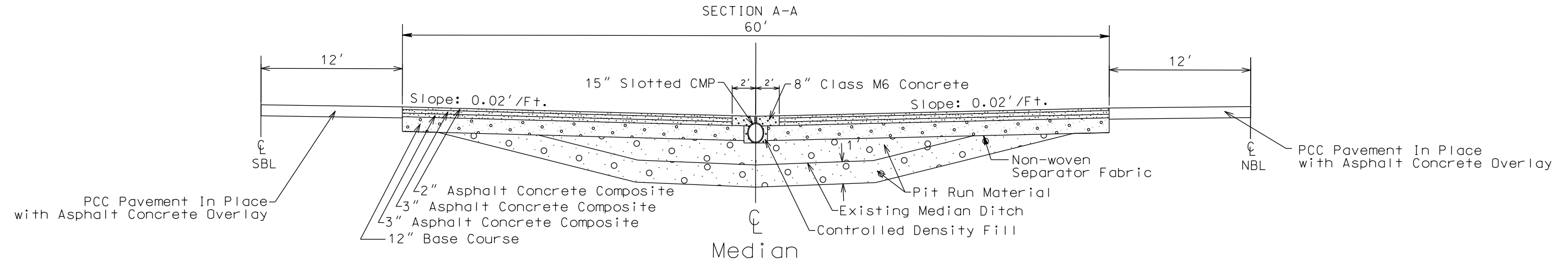
MEDIAN CROSSOVER
MRM 57.00+0.30
Sta. 401+00 to Sta. 411+51.49

SHEET 2 OF 3 SHEETS

MEDIAN CROSSOVER TYPICALS

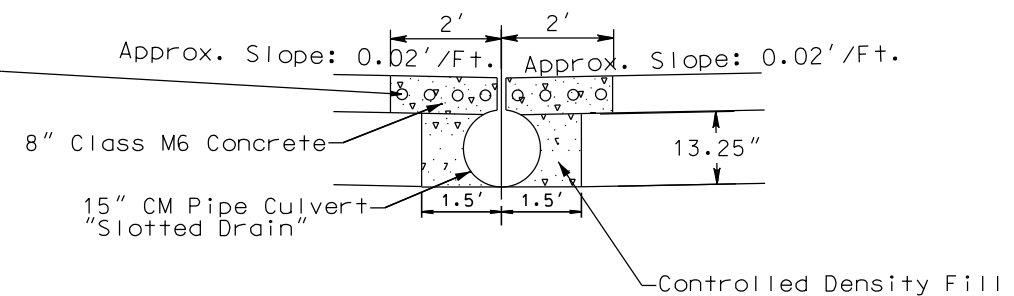
SD DOT	PROJECT	SECTION	SHEET
	IM 0292(100)55	F	24/32

Plotting Date: 5/19/2026



Detail for Epoxy Coated Bars in Class M6 Concrete

8 - #5 Epoxy Coated Reinforcing Steel Bars, spaced 5 5/8" center-to-center and centered in the slab vertically. Minimum lap length is 25". The cost of the #5 Epoxy Coated Reinforcing Steel Bars shall be incidental to the contract unit price per cubic yard for Class M6 Concrete.

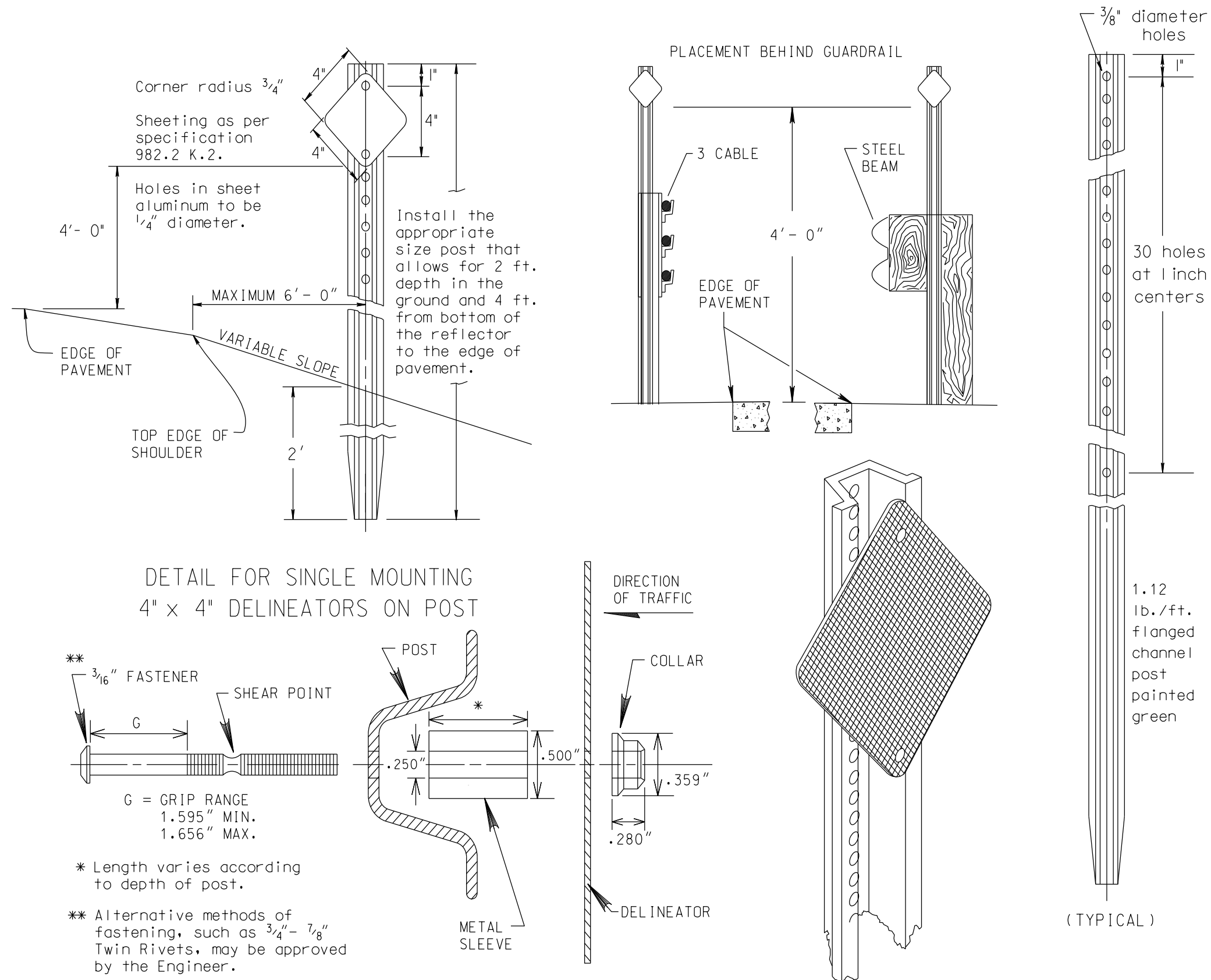


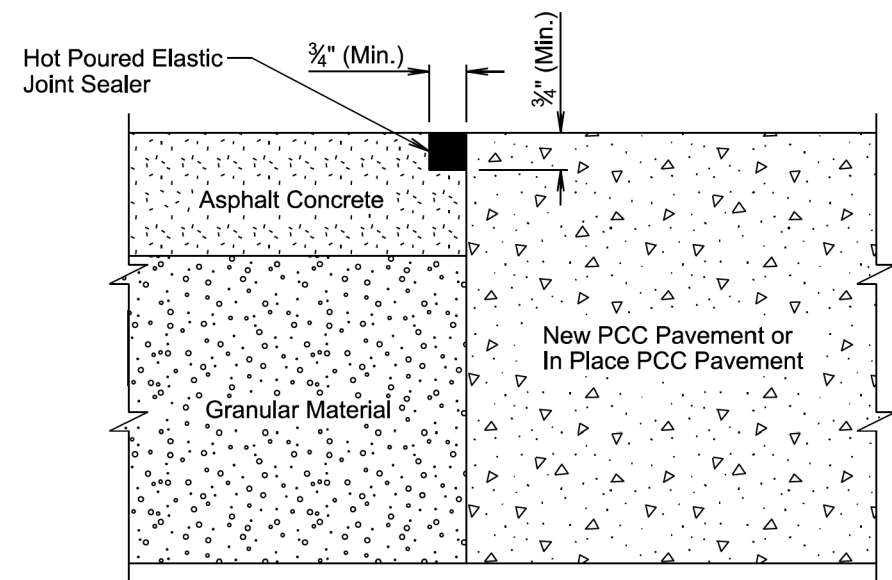
Note: Not to Scale

MEDIAN CROSSOVER
MRM 57.00+0.30
Sta. 401+00 to Sta. 411+51.49

SHEET 3 OF 3 SHEETS

INSTALLATION DETAILS FOR 4" x 4" DELINEATORS (DIVIDED HIGHWAY)





TRANSVERSE SECTION
(Asphalt Concrete Shoulder Joint)

September 14, 2019

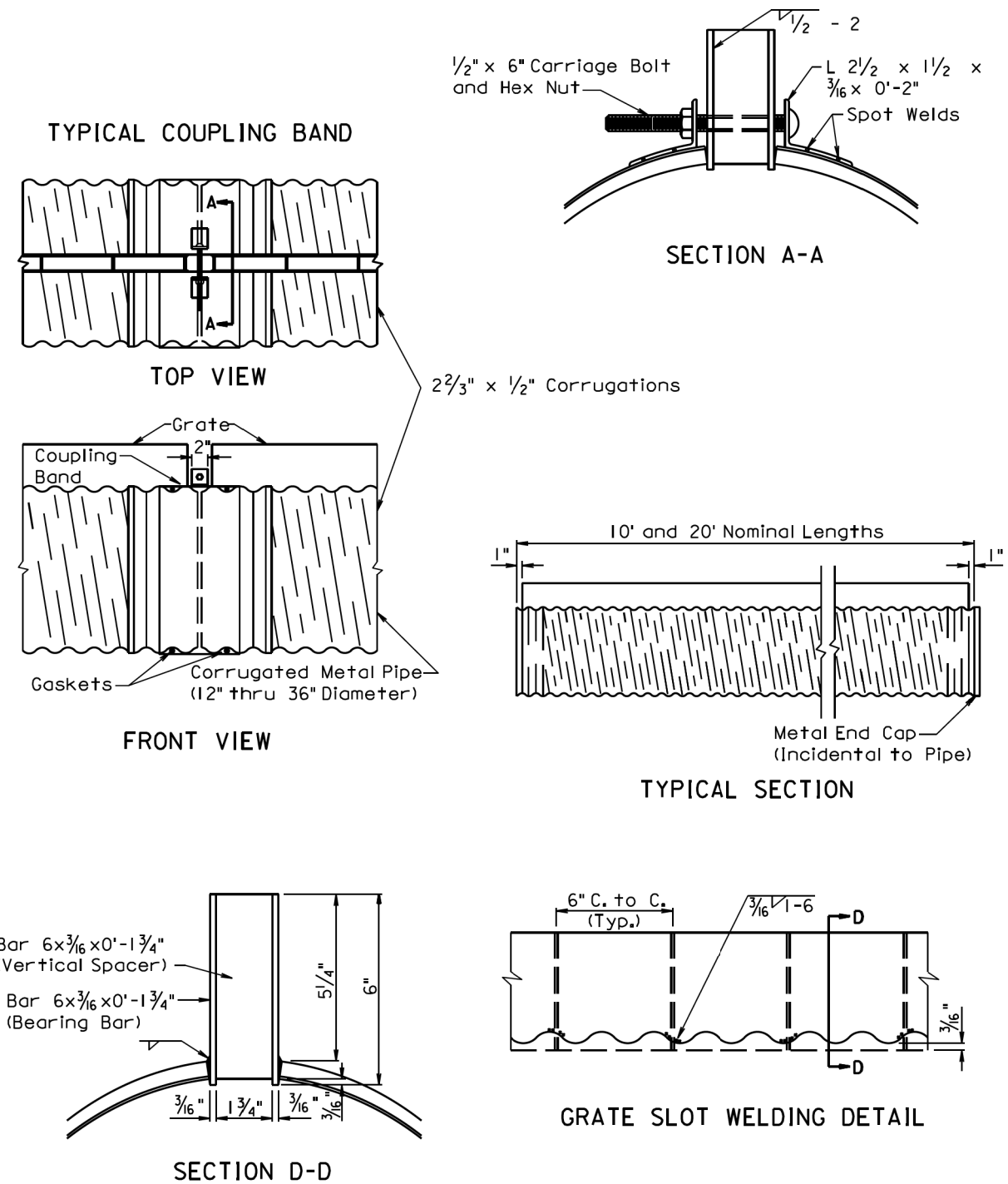
Published Date: 2026

SD
DOT

**ASPHALT CONCRETE SHOULDER JOINT
ADJACENT TO PCC PAVEMENT**

PLATE NUMBER
320.15

Sheet 1 of 1



SECTION D-D

GRATE SLOT WELDING DETAIL

March 31, 2000

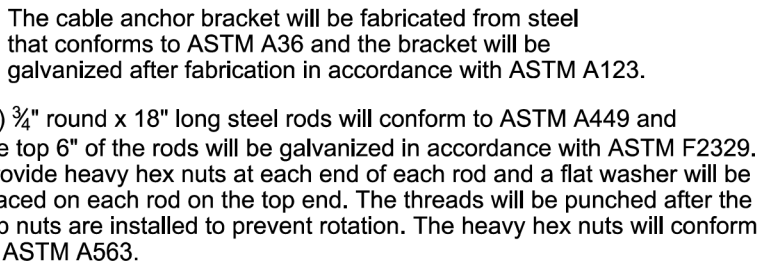
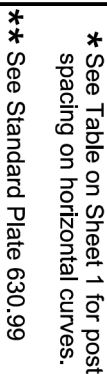
Published Date: 2026

SD
DOT

SLOTTED C.M.P. DRAIN

PLATE NUMBER
450.31

Sheet 1 of 2



Published Date: 2026

SDDOT

3 CABLE GUARDRAIL (LOW TENSION)

September 14, 2018

PLATE NUMBER 629.01

Sheet 4 of 6

DETAIL H
(Cable End Assembly Rod Connection to Cable Anchor Bracket)

Labels: (2) $\frac{3}{4}$ " - 10 Sq. Nuts (Galv.), Keeper Rod must be installed, Cable End Assembly Rod, Cable Anchor Bracket (See Sheet 3 of 6), Lock Nut.

DETAIL G
(Typical Wedge for all Splices and Cable Fittings)

Labels: 0.437", 1.844", 0.562", 5°, 0.843", 0.203" R. (Typ.), 0.125".

DETAIL A
(Steel Turnbuckle Cable End Assembly)
(Minimum Tensile Strength = 25,000 Lbs.)

Labels: (2) $\frac{3}{4}$ " - 10 Sq. Nuts (Galv.), Standard Steel Turnbuckle (Galv.) (12" Takeup), Flatten $1\frac{1}{4}$ " for Wrench, 11", $\frac{3}{4}$ " - 10 Sq. Nut (Galv.), Cable End (Cast Steel or Malleable Iron), Typical Wedge (See Detail G), 7 $\frac{1}{2}$ ", 3", 7 $\frac{1}{2}$ ", 12", 7 $\frac{1}{2}$ ", 1 $\frac{1}{4}$ ", 2 $\frac{1}{4}$ ", R.H. Thread, L.H. Thread, Flatten $1\frac{1}{4}$ " for Wrench, 1'-6", R.H. Thread, R.H. Thread, R.H. Thread.

DETAIL B
(Spring Cable End Assembly with Turnbuckle)
(Compensating Device)

Labels: (2) $\frac{3}{4}$ " - 10 Sq. Nuts (Galv.), Flatten $1\frac{1}{4}$ " for Wrench, Standard Steel Turnbuckle (Galv.) (12" Takeup), Flatten $1\frac{1}{4}$ " for Wrench, 6 $\frac{1}{2}$ ", L.H. Thread, Spring Wire (Galv.) $\frac{9}{16}$ " Dia. (Min.), Spring Stop $4\frac{1}{2}$ " Long (Galv.), $\frac{3}{4}$ " - 10 Sq. Nut (Galv.), Typical Wedge (See Detail G), Cast Steel or Malleable Iron, 2'-1", R.H. Thread, 2 $\frac{1}{4}$ ", R.H. Thread, 7 $\frac{1}{2}$ ", 3", 7 $\frac{1}{2}$ ", 1'-6", R.H. Thread, R.H. Thread, R.H. Thread.

Published Date: 2026

SDDOT

3 CABLE GUARDRAIL
(LOW TENSION)

September 14, 2018

PLATE NUMBER
629.01

Sheet 5 of 6

FRONT VIEW

SIDE VIEW

DETAIL D
(End Post)

FRONT VIEW

DETAIL J

FRONT VIEW

SIDE VIEW

DETAIL E
(Line Post)

** See Standard Plate 630.99

*** 2' (Min.) or as shown in the plans.

SECTION A-A

DETAIL C
(Hook Bolt)

**S3x5.7 STEEL I BEAM POST
FOR 3 CABLE GUARDRAIL**

