



Planning & Engineering
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dot.sd.gov

September 11, 2026

To Whom it May Concern,

Beginning with the 10/7/2026 letting, the SDDOT will be using the new Electronic Standard Specifications for Roads and Bridges, 10-7-26 Version. The Standard Specifications for Roads and Bridges is available for download and viewing at <https://dot.sd.gov/doing-business/contractors/standard-specifications> . A printed version of the Standard Specifications for Roads and Bridges will not be provided.

A revised Buy America specification is in effect beginning with the 10/7/26 letting, which aligns with the expiration of the Federal Manufactured Products General Waiver. Contractors should be aware that new provisions for manufactured products, along with updates to material classifications, documentation requirements, and compliance procedures, are included in Section 6.9 of the Standard Specifications (10/07/2026 version). All contractors and suppliers are strongly encouraged to review the updated specification in full. Contractors are encouraged to attend the Buy America Informational Webinar being put on by the SDDOT and AGC. Information on the webinar can be found at:

<https://dot.sd.gov/doing-business/contractors/webinars/>

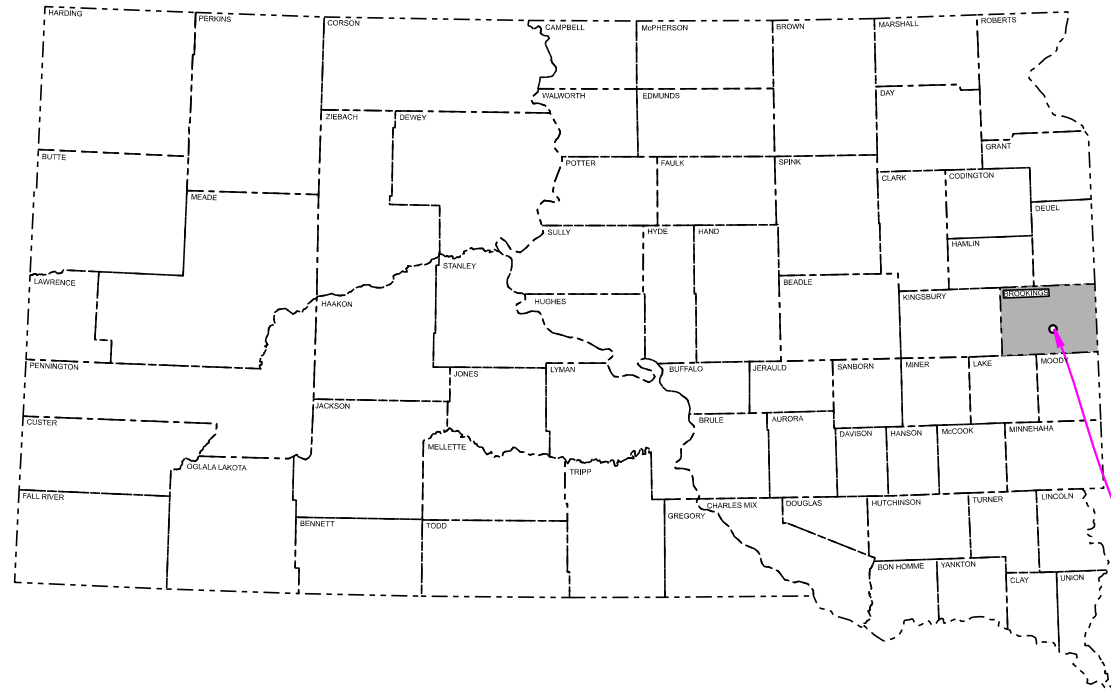
FHWA has updated the FHWA-1273 commonly known as the "Pink Sheets". The new FHWA-1273 will be incorporated into all contracts awarded after 10/7/26. Additional information regarding the updated FHWA-1273 can be found at:

<https://www.fhwa.dot.gov/construction/cqit/form1273.cfm>

Sincerely,
SDDOT – Bid Letting Office

Plot Scale - 1:200

Plotted From - TRRC15324



STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT IM 0295(50)132
INTERSTATE 29
BROOKINGS COUNTY

Interchange Lighting

PCN 0A9V

PROJECT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	1	35

Plotting Date: 5/7/2026

INDEX OF SHEETS

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DESIGN DESIGNATION

I-29 Mainline

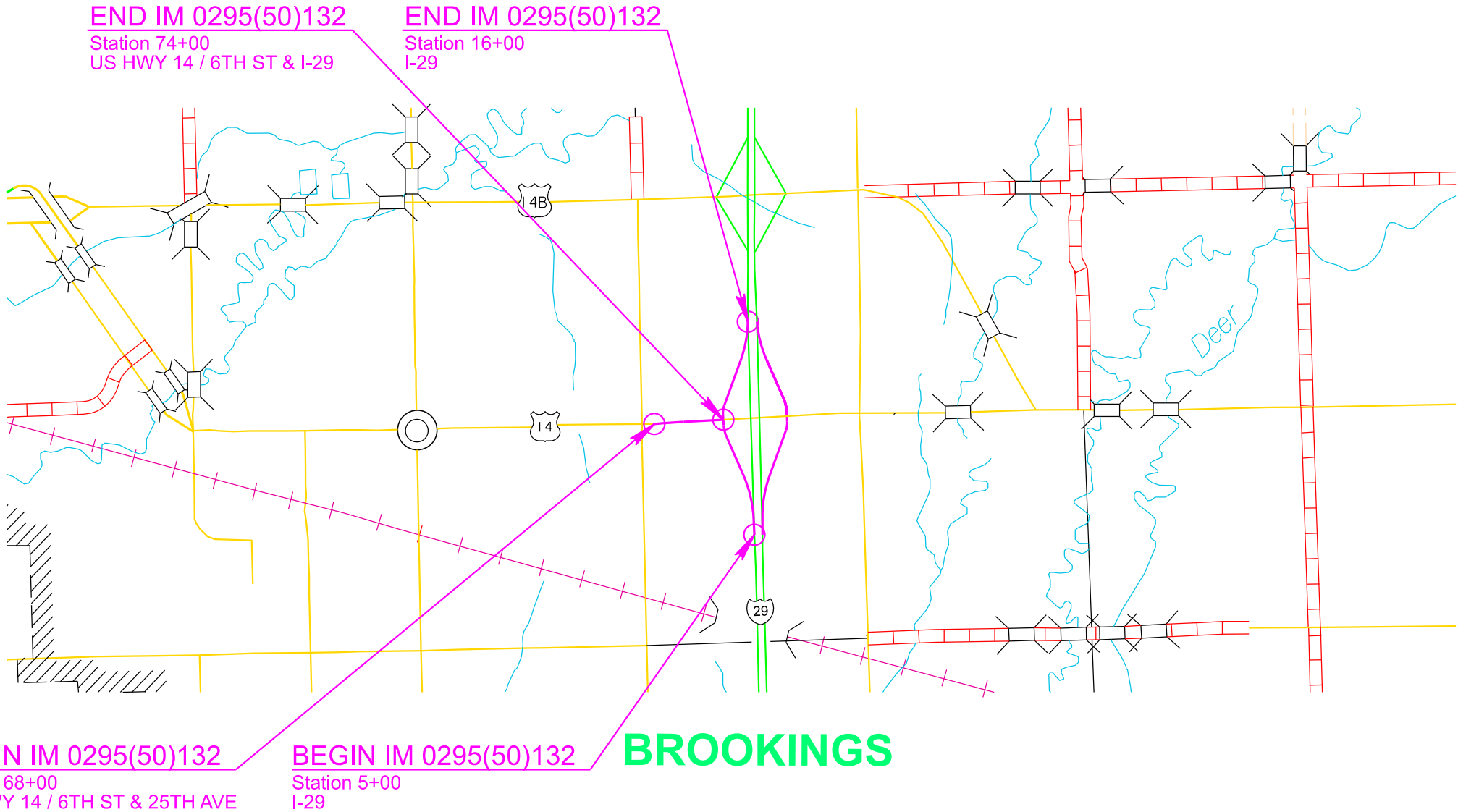
ADT (2025)	6,953
ADT (2055)	11,188
DHV	1,591
D	50%
DHV T%	6.0%
AADT T%	13.3%
V	80

US Hwy 14

ADT (2025)	7,128
ADT (2055)	11,248
DHV	1426
D	51%
DHV T%	2.1%
AADT T%	4.6%
V	35

STORM WATER PERMIT

Not Required



9

October 7, 2026

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ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4100	Construction Schedule, Category I	Lump Sum	LS
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E1550	Remove Light Tower	4	Each
250E0010	Incidental Work	Lump Sum	LS
634E0010	Flagging	15.0	Hour
634E0110	Traffic Control Signs	413.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	4	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	23	Each
635E0150	Breakaway Base Luminaire Pole with Twin Arms, 50' Mounting Height	4	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	31	Each
635E5020	2' Diameter Footing	216.0	Ft
635E5301	Type 1 Electrical Junction Box	10	Each
635E5400	Electrical Service Cabinet	2	Each
635E8120	2" Rigid Conduit, Schedule 40	7,655	Ft
635E8220	2" Rigid Conduit, Schedule 80	455	Ft
635E9016	1/C #6 AWG Copper Wire	11,550	Ft
635E9018	1/C #8 AWG Copper Wire	14,175	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	2,015	Ft

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <<https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website: <https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: < <https://sdleastwanted.sd.gov/maps/default.aspx> >

[South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04)
< <https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04> >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

Action Taken/Required:

The Contractor is advised that the South Dakota Surface Water Quality Standards, administered by the South Dakota Department of Agriculture and Natural Resources (DANR), apply to this project. Special construction measures will be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".

2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06. Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	2	35
Plotting Date: 5/7/2026			

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COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES
(CONTINUED)

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

SUPPLYING AS BUILT PLANS

If the roadway lighting system is constructed differently than what is stated in the plans, the Contractor will supply as built plans to the Engineer and a copy will be sent to the Traffic Design Engineer. The as built plans may include conduit layouts, wiring diagrams, or other drawings depicting the changes from the original plans.

SHOP DRAWING AND CATALOG CUTS SUBMITTALS

The Contractor will submit shop drawings and catalog cuts in accordance with Section 985 of the Specifications.

PDF submittals will be sent to the following email addresses:

Stacy.Bartlett@state.sd.us
Evelyn.Dalldorf@state.sd.us

REMOVE CONCRETE FOOTINGS

The footings of existing light tower poles EL1-EL4 will be removed by the Contractor to a minimum of 2 feet below the ground surface. Restoration of the disturbed area will be to the satisfaction of the Engineer.

All costs for removing the footings of the existing light towers will be incidental to the contract lump sum price for "Remove Concrete Footing(s)."

REMOVE LIGHT TOWER

The Contractor will remove existing light tower poles EL1-EL4. The locations of EL1-EL4 are shown in the table below and in the Overview Layout.

Luminaire	Northing	Easting
EL1	190181.57	2816636.17
EL2	191059.66	2816988.18
EL3	191647.10	2816568.22
EL4	192655.10	2816875.54

The plan for tower light removal by the Contractor will be discussed at the preconstruction meeting in order to ensure tower lights are safely removed.

All costs associated with the removal and disposal of the light tower poles will be incidental to the contract price per each for "Remove Light Tower."

INCIDENTAL WORK

Incidental work includes, but is not limited to, the restoration of all disturbed areas to the satisfaction of the Engineer.

LUMINAIRE POLES

Luminaire poles L1-L23 will have a mounting height of 50 foot with 4 foot arms.

Luminaire poles L24-L27 will have a mounting height of 50 foot with twin 4 foot arms.

The pole fabricator will be responsible for the determining the diameter, length, and number of anchor bolts.

LUMINAIRES

The lighting design used the following parameters to provide 1.2 and greater average maintained foot-candles and uniformity ratios of 3:1 (average maintained to minimum maintained foot-candles) and 5:1 (maximum to minimum maintained foot candles):

Pole Setback:	4 feet
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	20 feet
Luminaire Cycle Length:	230 feet
Configuration:	One-Sided
Mounting Height:	50 feet
Arm Length	4 feet

The following luminaires, or an approved equal, will be used for this project:

- a.) AEL ATB2-P902-MVOLT-R2-AO-PCLL
(with Field Adjustable Output Module set to 6)
- b.) Cooper ARCH-L-PA3-210-740-U-T2R-AP-PR7-LLPC

TABLE OF FOOTING DATA

Site Designation	Footing Diameter	* Footing Depth	**Spiral Diameter	**Spiral Length	Vertical Reinforcement
L1-L27	2' - 0"	8' - 0"	1' - 8"	54' - 9"	8-#7 x 7' - 6"

- * Footing depth will be below ground level.
** The size of all spirals will be #3.

SUBSURFACE

Luminaires will be placed in soils ranging from existing fill to in situ brown clay sand.

Groundwater will be encountered at I-29 ditch grade elevation.

Concrete placement operations should closely follow excavation procedures. The longer the excavations are left open, the more likely caving may occur. Operations should be sequenced so that concrete placement operations closely follow excavation procedures but at a minimum placed the same working day. If caving soils are encountered, it may be necessary to use casing or drilling fluids to maintain an open excavation. Casing will be of sufficient strength to withstand handling and installation procedures. Casing material may consist of Sonotube, corrugated metal pipe, PVC, smooth metal pipe or any other material as approved by the Engineer. Drilling fluids can be water or other slurries as approved by the Engineer. Concrete placed through drilling fluids will be tremied.

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	4	35

Plotting Date: 5/7/2026

ELECTRICAL SERVICE CABINET

An externally mounted receptacle and accompanying enclosure will not be required at electrical service cabinets.

The Contractor will be responsible for coordinating the installation of the electrical services and connection to the electrical service. The Contractor will contact Brookings Municipal Utilities at least 2 weeks prior to needing the electrical service installed. The contact information for Brookings Municipal Utilities is Ryan Thompson, rmthompson@swiftel-bmu.com, (605)-697-8422.

All cost for contacting the utility company and coordinating the electrical service installations and all hookup fees will be incidental to the contract unit price per each for “Electrical Service Cabinet.”

WIRE SPLICING FOR LIGHTING

All wire splices for lighting will be made using TE Connectivity GTAP connectors, NSI Industries Polaris Blue connectors, or an approved equal.

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.

Cory Moser
Lumen
15 4th Ave SW
Aberdeen, SD 57401
C: (605) 290-7886
E: Cory.Moser@Lumen.com

Andrew Wixon
Lumen
125 S Dakota Ave
Sioux Falls, SD 57104
C: (605) 681-2049
E: Andrew.Wixon@Lumen.com

Al Mullinix
Midcontinent Communications (Midco)
1305 N Terry Avenue
Sioux Falls, SD 57107
O: 605-231-0388
E: Al.Mullinix@Midco.com

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

UTILITIES (CONTINUED)

Jerome Salanoa
Interstate Telecom Coop. Assoc.
312 4th St. West
Clear Lake, SD 57226
C: 605-874-8324
E: Jerome.Salanoa@ITCCoop.com

Mike Klingenberg
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948 22nd Avenue S
Brookings, SD 57006
O: (605) 691-0989
C: (605) 691-3978
E: MKlingenberg@MediaComCC.com

Mr. Robert Gehm
NorthWestern Energy
3210 Douglas Ave
Yankton SD 57078
C: 605-760-7402
E: Robert.Gehm@NorthWestern.com
On-Site Contact (Gas): Keith Poppen
C: 605-695-3036
E: Keith.Poppen@NorthWestern.com

Tanner Aiken
South Dakota State University
1015 Campanile Ave.
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O: 605-688-4136

Todd VanderWal
Brookings Municipal Utilities
525 Western Ave.
Brookings, SD 57006
O: 605-692-6325
E: TVanderWal@swiftel-bmu.com
Ryan Thompson
E: RThompson@swiftel-bmu.com

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the sequence of operations will only be allowed when the proposed changes meet with the Department’s intent for traffic control and sequencing of the work.

GENERAL TRAFFIC CONTROL

Road Work Ahead signs will be placed on I-29 mainline, the beginning of I-29 On-ramps and on US14 mainline.

Shoulder Work signs will be placed on I-29 mainline and US14 mainline.

Signing as shown on Standard Plate 634.69 will be placed on the Exit Ramp and also at the beginning of On-ramp.

GENERAL TRAFFIC CONTROL (CONTINUED)

A Type 3 Barricade will be placed at the beginning of the shoulder/ramp workspace and channelizing devices placed as indicated on applicable Standard Plate 634.03 or 634.69.

Flagger signs and flagging hours have been included in the Estimate of Quantities to assist with traffic control as directed by the Engineer.

It is anticipated that work can be done without mainline I-29 lane closures. Standard Plate 634.64 along with appropriate signs and arrow board have been included in the Estimate of Quantities, should a lane closure be required.

All lanes will be fully open to traffic during nighttime and non-working hours.

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

Portable sign supports will not be located on sidewalks, bicycle facilities, or other areas designated for pedestrian or bicycle traffic.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following completion of roadway lighting installation.

All haul trucks will be equipped with an additional flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

Traffic will be maintained on the driving lanes. Use of the shoulder as a driving lane will not be permitted. Any damage to the shoulder due to rerouted traffic or Contractor’s equipment will be repaired at no expense to the Department.

Construction vehicles will exit or enter the construction work zone at locations identified by the Engineer. At no time will construction vehicles utilize the maintenance crossovers or the Interstate median to exit or enter Interstate traffic.

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	5	35

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GENERAL TRAFFIC CONTROL (CONTINUED)

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

SIGN CODE	SIGN DESCRIPTION	EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W4-2	LEFT or RIGHT LANE ENDS (symbol)	2	48" x 48"	16.0	32.0
W5-4	RAMP NARROWS	4	48" x 48"	16.0	64.0
W13-1P	ADVISORY SPEED (plaque)	4	30" x 30"	6.3	25.2
W13-4P	ON RAMP (plaque)	4	36" x 36"	9.0	36.0
W20-1	ROAD WORK AHEAD	6	48" x 48"	16.0	96.0
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
W21-5	SHOULDER WORK	4	48" x 48"	16.0	64.0
G20-2	END ROAD WORK	4	48" x 24"	8.0	32.0
		EXPRESSWAY / INTERSTATE TRAFFIC CONTROL SIGNS SQFT 413.2			

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HORIZONTAL ALIGNMENT DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	8	35

Plotting Date: 5/7/2026

Type	Station	Mainline		Northing	Easting
POB	45+00.00	TL= 370.07	N 88°19'51" E	191147.437	2813389.419
PC	48+70.07			191158.216	2813759.331
PI	49+95.08	R = 10193.06	Delta = 1°24'19" L	191161.857	2813884.285
PRC	51+20.07			191168.562	2814009.112
PI	52+45.08	R = 9966.24	Delta = 1°26'14" R	191175.266	2814133.939
PT	53+70.07			191178.838	2814258.895
		TL= 54.70	N 88°21'46" E		
PC	54+24.77			191180.400	2814313.576
PI	56+48.18	R = 8000.00	Delta = 3°11'57" L	191186.783	2814536.886
PT	58+71.46			191205.618	2814759.493
		TL= 436.85	N 85°09'49" E		
PC	63+08.31			191242.448	2815194.788
PI	65+40.24	R = 16000.00	Delta = 1°39'39" R	191262.002	2815425.894
PT	67+72.14			191274.849	2815657.469
		TL= 2437.73	N 86°49'29" E		
PC	92+09.87			191409.878	2818091.456
PI	94+95.44	R = 25000.00	Delta = 1°18'32" R	191425.696	2818376.584
PT	97+80.98			191434.997	2818661.999
		TL= 1094.42	N 88°08'01" E		
PI	108+75.41			191470.642	2819755.844
		TL= 930.73	N 88°06'07" E		
POE	118+06.14			191501.470	2820686.065

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 2009; SF = 0.99984277

Note: Horizontal alignment and control data were obtained from a previous project (PCN 546N).

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HORIZONTAL ALIGNMENT DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	9	35

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Ramp A				
Type	Station		Northing	Easting
POB	0+00.00		191364.741	2817277.835
		TL= 86.41	N 3°10'31" W	
PC	0+86.41		191451.016	2817273.049
PI	1+78.68	R = 510.00	Delta = 20°30'37" L	191543.144
PT	2+68.97		191627.642	2817230.872
		TL= 672.84	N 23°41'08" W	
PC	9+41.81		192243.803	2816960.582
PI	12+97.33	R = 1909.86	Delta = 21°05'22" R	192569.371
PT	16+44.79		192924.521	2816801.663
		TL= 747.78	N 2°35'46" W	
POE	23+92.58		193671.537	2816767.794

Ramp B				
Type	Station		Northing	Easting
POB	0+00.00		189283.687	2816894.344
		TL= 497.27	N 0°12'40" W	
PC	4+97.27		189780.956	2816892.512
PI	8+36.90	R = 1909.86	Delta = 20°10'01" R	190120.583
PT	11+69.50		190439.819	2817007.176
		TL= 750.20	N 19°57'21" E	
PC	19+19.70		191144.969	2817263.216
PI	19+87.85	R = 333.00	Delta = 23°07'52" L	191209.024
PT	20+54.14		191277.066	2817282.699
		TL= 87.81	N 3°10'31" W	
POE	21+41.95		191364.741	2817277.835

Ramp C				
Type	Station		Northing	Easting
POB	0+00.00		189002.754	2816788.388
		TL= 747.28	N 2°35'06" W	
PC	7+47.28		189749.270	2816754.685
PI	11+03.11	R = 1909.86	Delta = 21°06'29" L	190104.742
PT	14+50.88		190430.583	2816595.650
		TL= 672.66	N 23°41'35" W	
PC	21+23.54		191046.547	2816325.350
PI	22+15.84	R = 510.00	Delta = 20°31'04" R	191131.071
PT	23+06.17		191223.234	2816283.146
		TL= 86.19	N 3°10'31" W	
POE	23+92.36		191309.295	2816278.372

Ramp D				
Type	Station		Northing	Easting
POB	0+00.00		191309.295	2816278.372
		TL= 90.66	N 3°10'31" W	
PC	0+90.66		191399.813	2816273.350
PI	1+58.98	R = 333.00	Delta = 23°11'26" R	191468.034
PT	2+25.44		191532.234	2816292.952
		TL= 745.28	N 20°00'55" E	
PC	9+70.72		192232.498	2816548.040
PI	13+11.52	R = 1909.86	Delta = 20°14'07" L	192552.720
PT	16+45.23		192893.523	2816663.379
		TL= 496.30	N 0°13'12" W	
POE	21+41.53		193389.823	2816661.473

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 2009; SF = 0.99984277

Note: Horizontal alignment and control data were obtained from a previous project (PCN 546N).

File - ...lpj\brox0A9V\dgn\DATA\Horiz.dgn

Plotted From - TRR015324
Plot Scale - 1:200
File - ...lbrok0A9V\dgn\DataControl.dgn

CONTROL DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	10	35

Plotting Date: 5/7/2026

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP6	55+54	68' R	North of the No Parking sign on south service road 40 ft	191117.6787	2814445.9900	1667.71
CP7	67+12	82' L	Rebar w/ cap NW corner of 25 th Ave and 6 th St	191353.3480	2815592.9170	1675.08
CP8	77+63	20' L	Rebar w/ Cap West end of West Bound Bridge median	191349.4280	2816645.3830	1678.50
CP9	84+43	2' L	RR Spike East side of NB Ramps in the Median of 6 th St	191369.7530	2817326.1150	1669.35
CP10	105+66	98' R	Rebar w/ Cap 1 ft North of fiber optic marker SE corner of 34 th Ave and 6 th St	191362.9310	2819449.7510	1626.19

* All Station and Offsets are from US 14 Alignment

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 2009; SF = 0.99984277
The elevations shown on this sheet are based on NAVD 88.

Note: Horizontal alignment and control data were obtained from a previous project (PCN 546N).

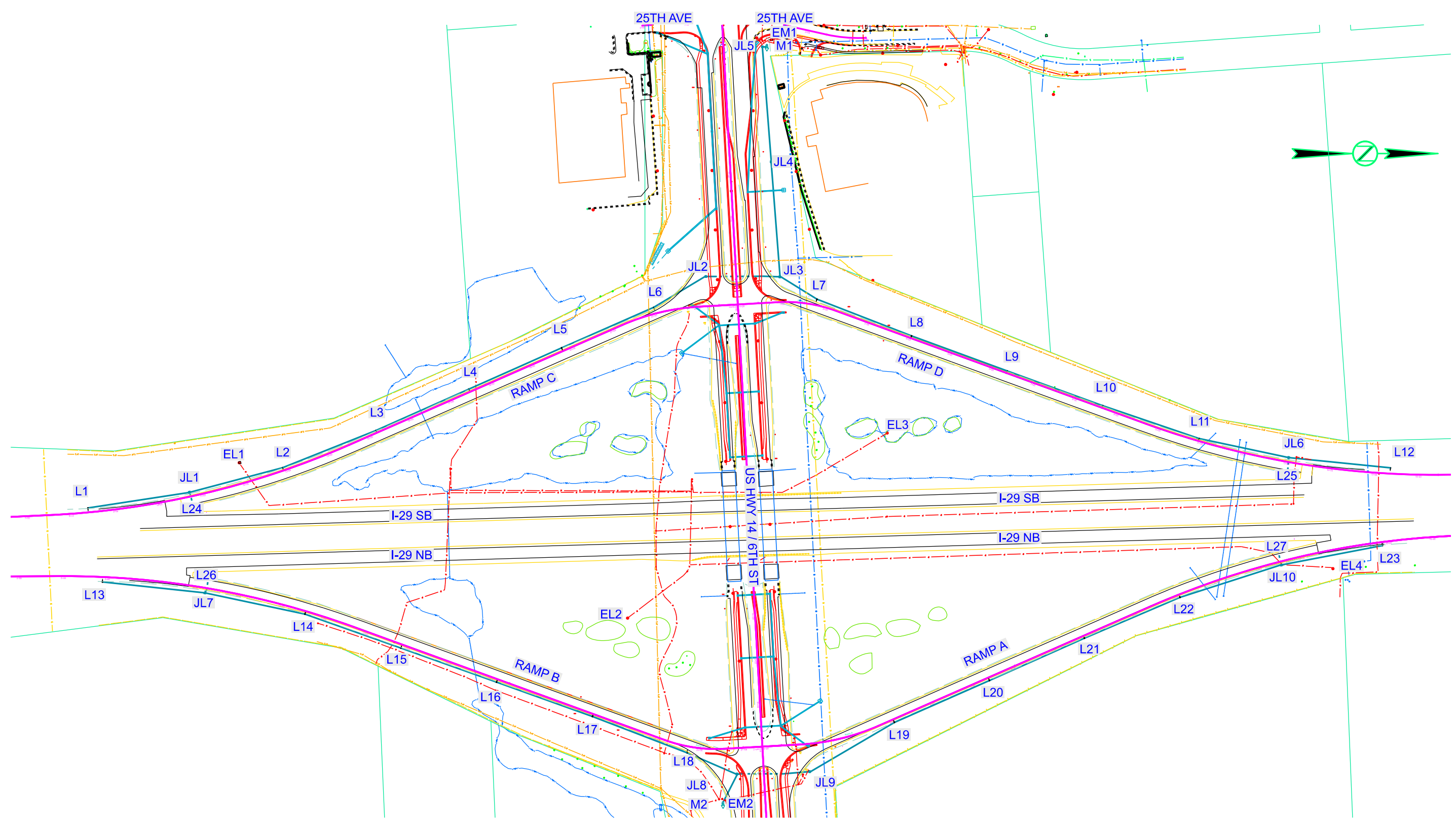
OVERVIEW LAYOUT

I-29 EXIT 132 (NOT TO SCALE)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132		

Plotting Date: 5/7/2026

11	35
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Plot Scale - 1:40

Plotted From - TRR015324

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Plotted From: TRR015324 Plot Scale: 1"=40'

CONDUIT LAYOUT

I-29 EXIT 132 RAMP C

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	12	35

Plotting Date: 5/7/2026



ESTIMATE OF QUANTITIES			
KEY	ITEM	EST QUANT	UNIT
	Remove Concrete Footing(s) (EL1-EL4)	LUMP SUM	LS
	Remove Light Tower (EL1-EL4)	4	EACH
	Breakaway Base Luminaire Pole w/4' Arm 50' Mounting Height (L1-L23)	23	EACH
	Breakaway Base Luminaire Pole w/4' Twin Arms 50' Mounting Height (L24-L27)	4	EACH
	Roadway Luminaire, LED with Photoelectric Cell (L1-L27)	31	EACH
	2' Diameter Footing (L1-L27)	216	FT
	Type 1 Electrical Junction Box (JL1-JL10)	10	EACH
	Electrical Service Cabinet (M1-M2)	2	EACH
	Galvanized Steel Utility Pole Not a Bid Item	2	EACH
	Meter Socket Not a Bid Item	2	EACH
	2" Rigid Conduit, Schedule 40	7,655	FT
	2" Rigid Conduit, Schedule 80	455	FT
	1/C #6 AWG Copper Wire	11,550	FT
	1/C #8 AWG Copper Wire	14,175	FT
	2/C #10 AWG Copper Pole & Bracket Cable	2,015	FT



File: ...brk00A9V\dgn\rampC_009c.dgn

CONDUIT LAYOUT

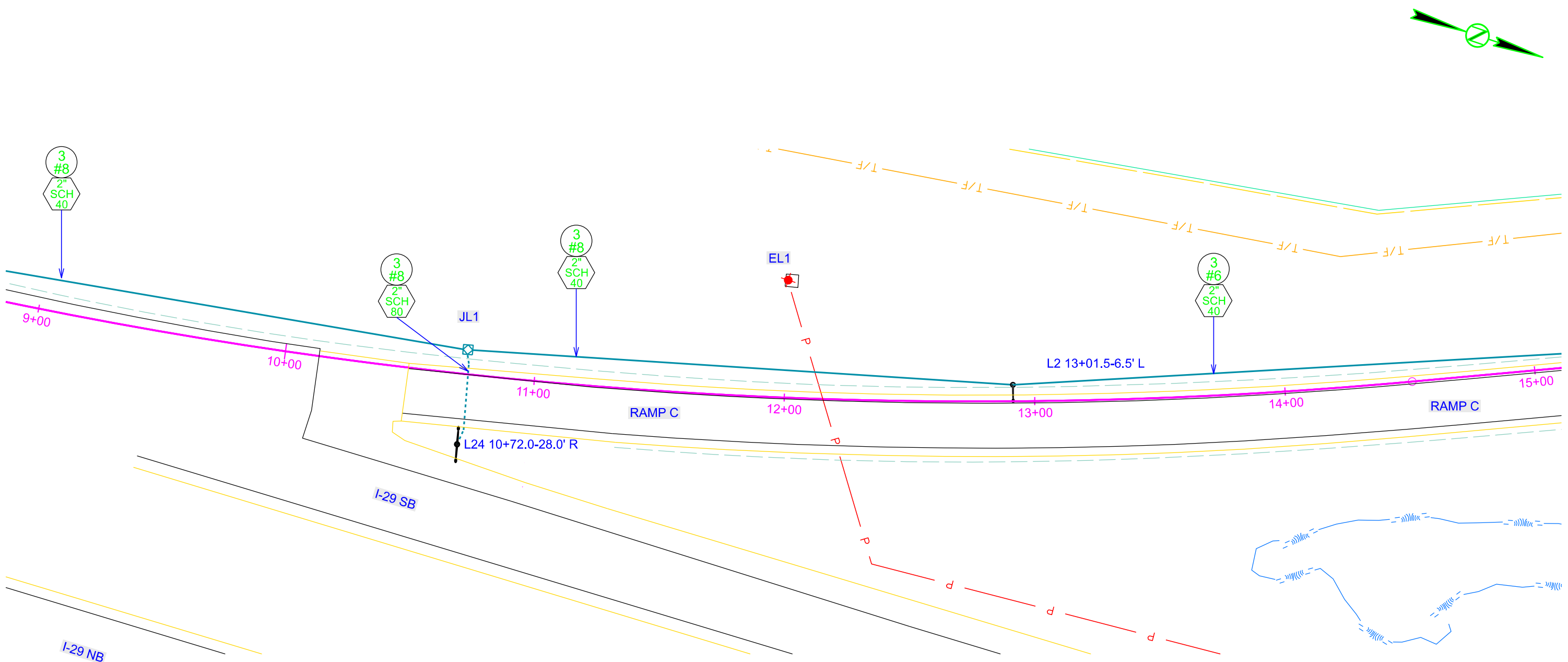
I-29 EXIT 132 RAMP C

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	13	35

Plotting Date: 5/7/2026

Plot Scale - 1"=40'

Plotted From - TRR015324



CONDUIT LAYOUT

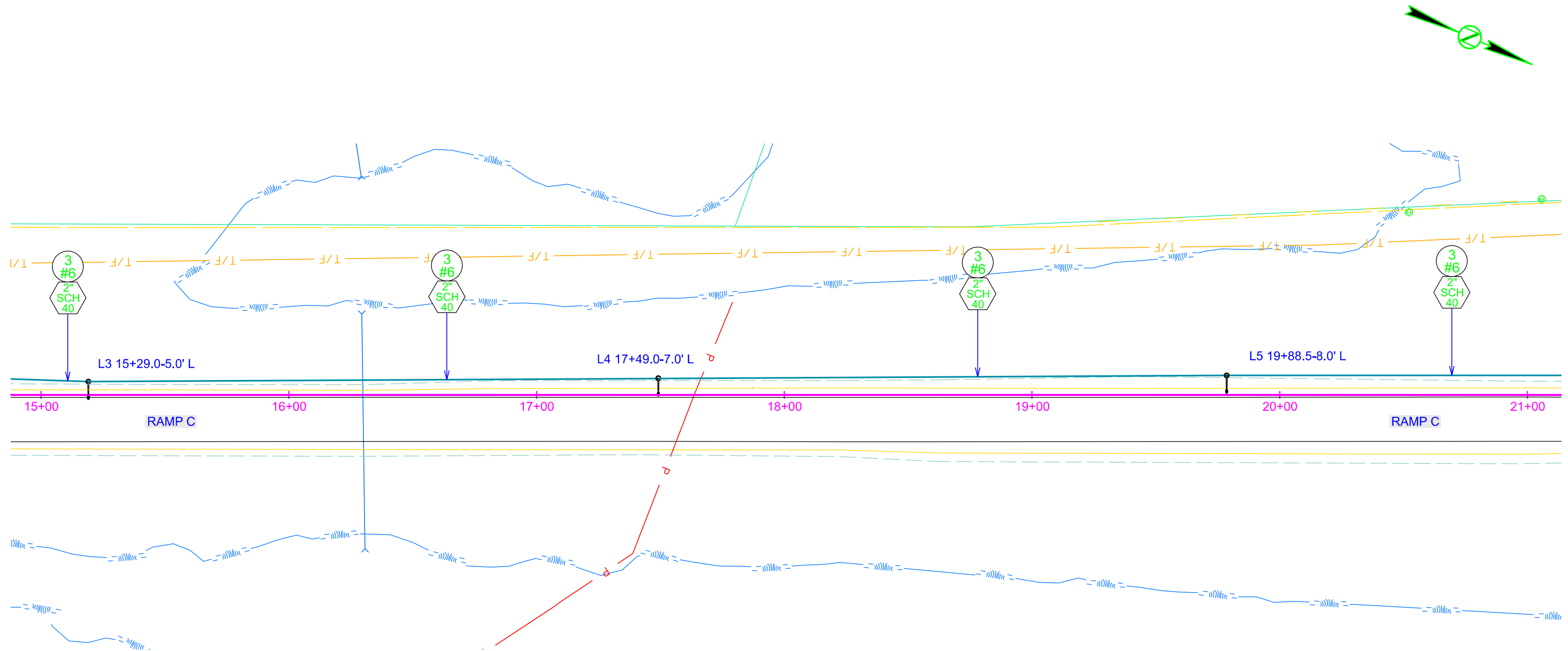
I-29 EXIT 132 RAMP C

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	14	35

Plotting Date: 5/7/2026

Plot Scale - 1:40

Plotted From - TRR015324



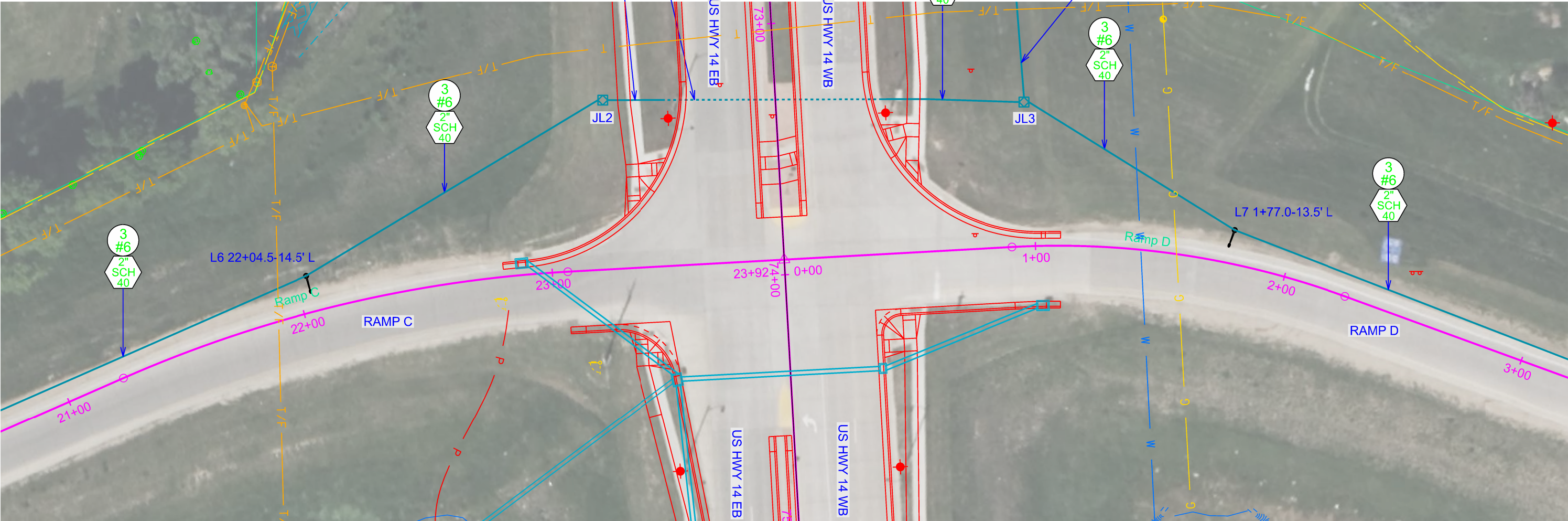
File - ...brok0A9V\dgn\rampC_021c.dgn

CONDUIT LAYOUT

I-29 EXIT 132 RAMP C & RAMP D

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	15	35

Plotting Date: 5/7/2026



Plot Scale - 1:40

Plotted From - TRR015324

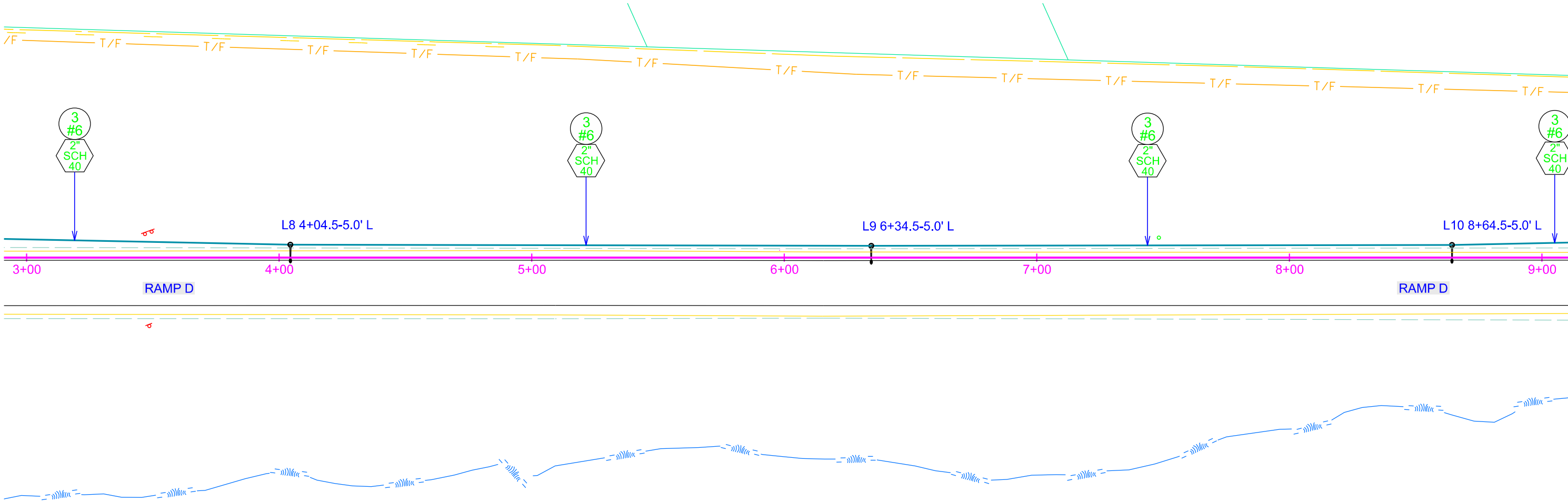
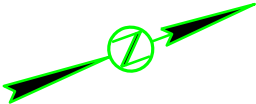
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CONDUIT LAYOUT

I-29 EXIT 132 RAMP D

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	16	35

Plotting Date: 5/7/2026



Plot Scale - 1:40

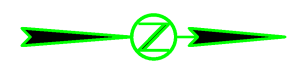
Plotted From - TRR015324

CONDUIT LAYOUT

I-29 EXIT 132 RAMP D

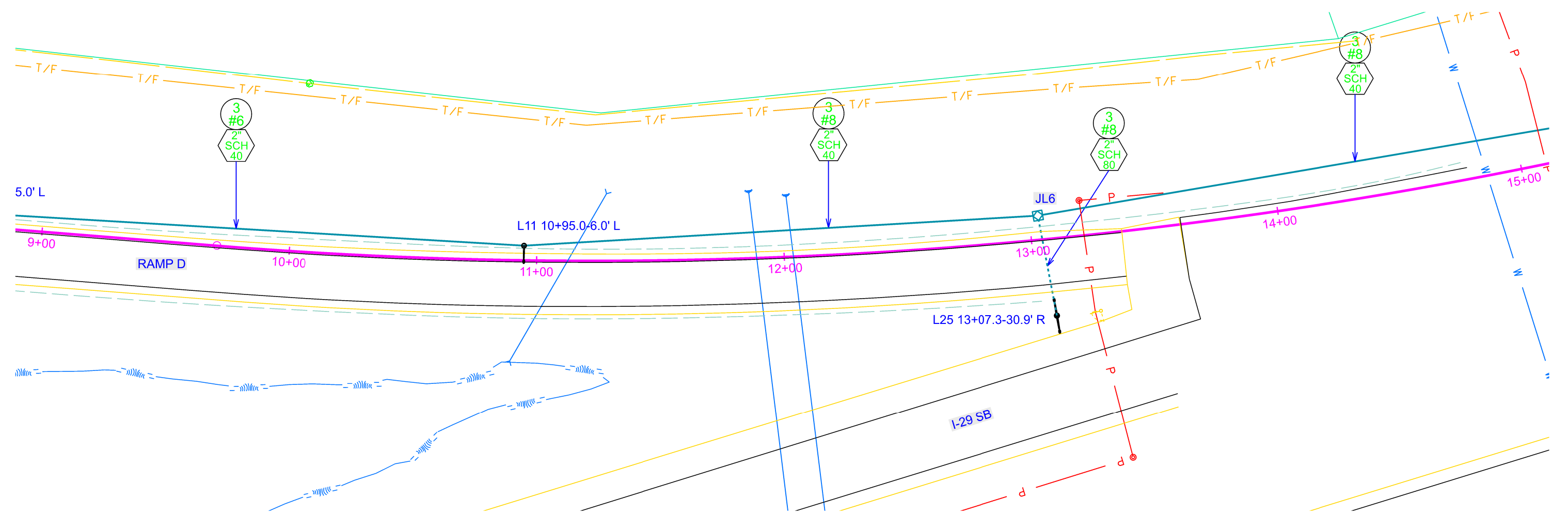
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	17	35

Plotting Date: 5/7/2026



Plot Scale - 1:40

Plotted From - TRR015324



File - ...brk0A9V\dgn\rampD_015c.dgn

CONDUIT LAYOUT

I-29 EXIT 132 RAMP D

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	18	35

Plotting Date: 5/7/2026



Plot Scale - 1:40

Plotted From - TRR015324

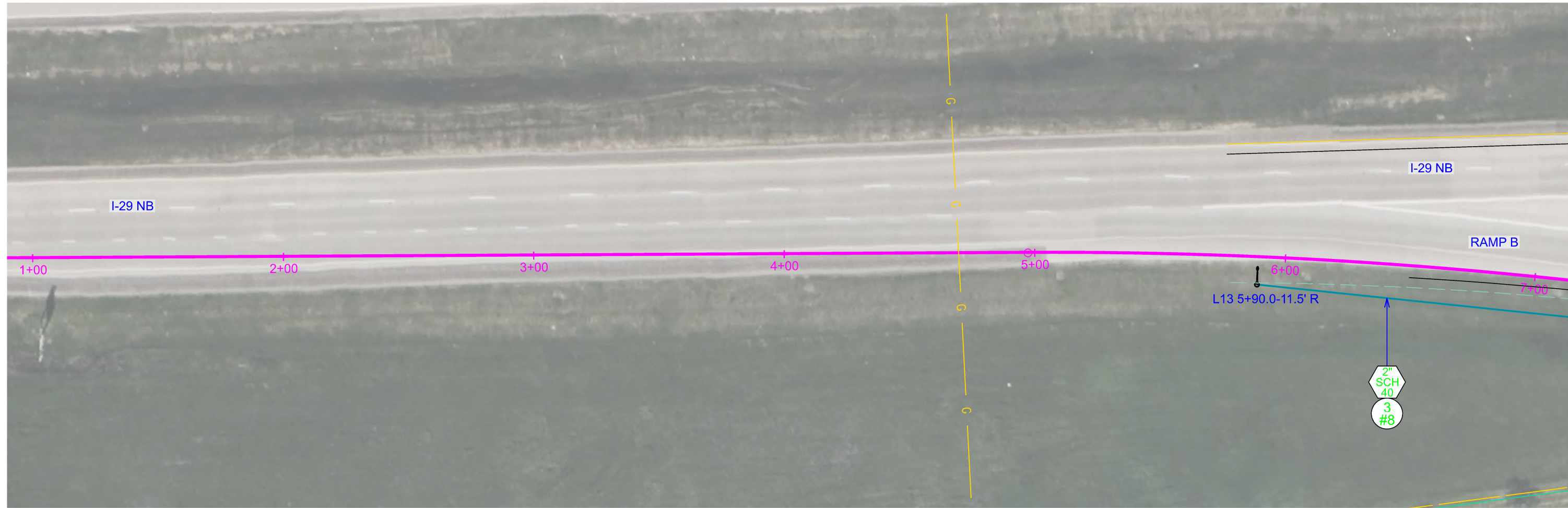
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CONDUIT LAYOUT

I-29 EXIT 132 RAMP B

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	19	35

Plotting Date: 5/7/2026



Plot Scale - 1:40

Plotted From - TRR015324

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	20	35



TRRC15324

Plotted From -

CONDUIT LAYOUT

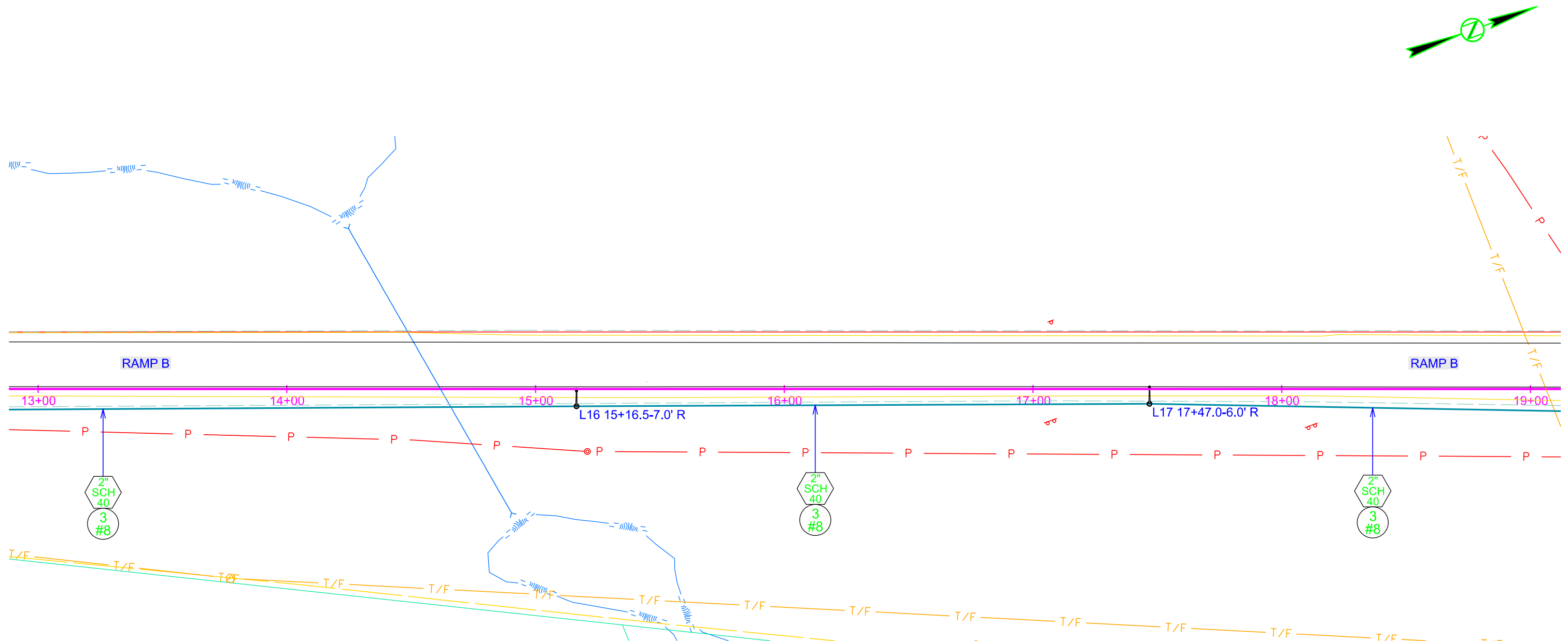
I-29 EXIT 132 RAMP B

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	21	35

Plotting Date: 5/7/2026

Plot Scale - 1:40

Plotted From - TRR015324



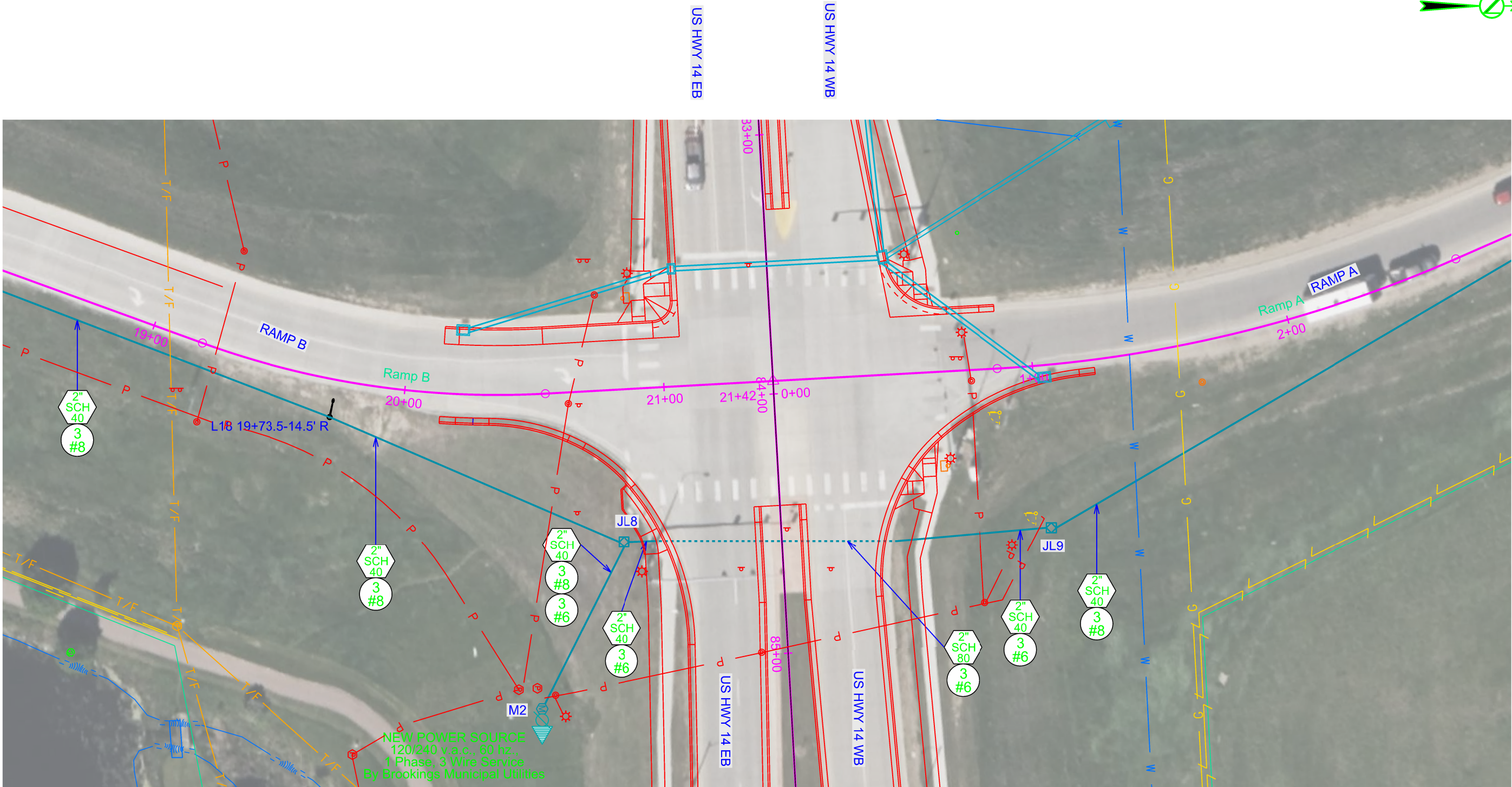
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CONDUIT LAYOUT

I-29 EXIT 132 RAMP B & RAMP A

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	22	35

Plotting Date: 5/7/2026



Plot Scale - 1"=40'

Plotted From - TRR015324

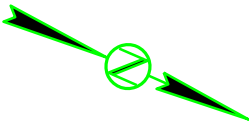
File - ...brook0A9V\dgn\rampA_003c.dgn

CONDUIT LAYOUT

I-29 EXIT 132 RAMP A

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	23	35

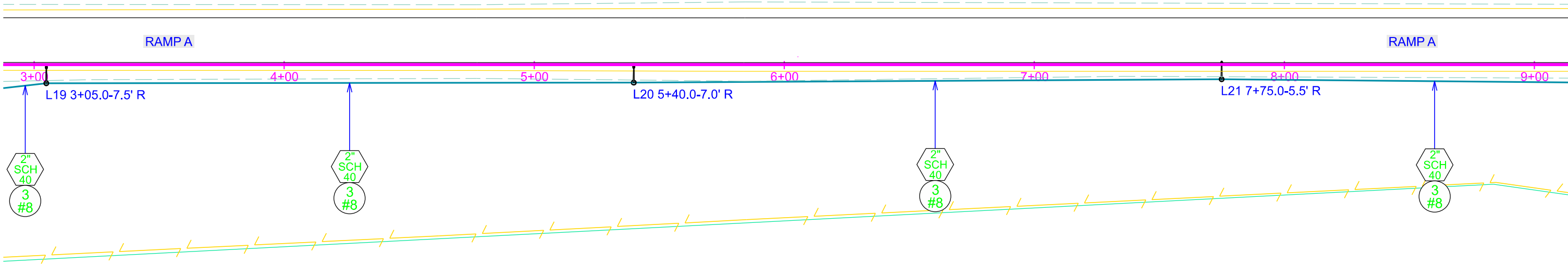
Plotting Date: 5/7/2026



Plot Scale - 1"=40'

Plotted From - TRR015324

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CONDUIT LAYOUT

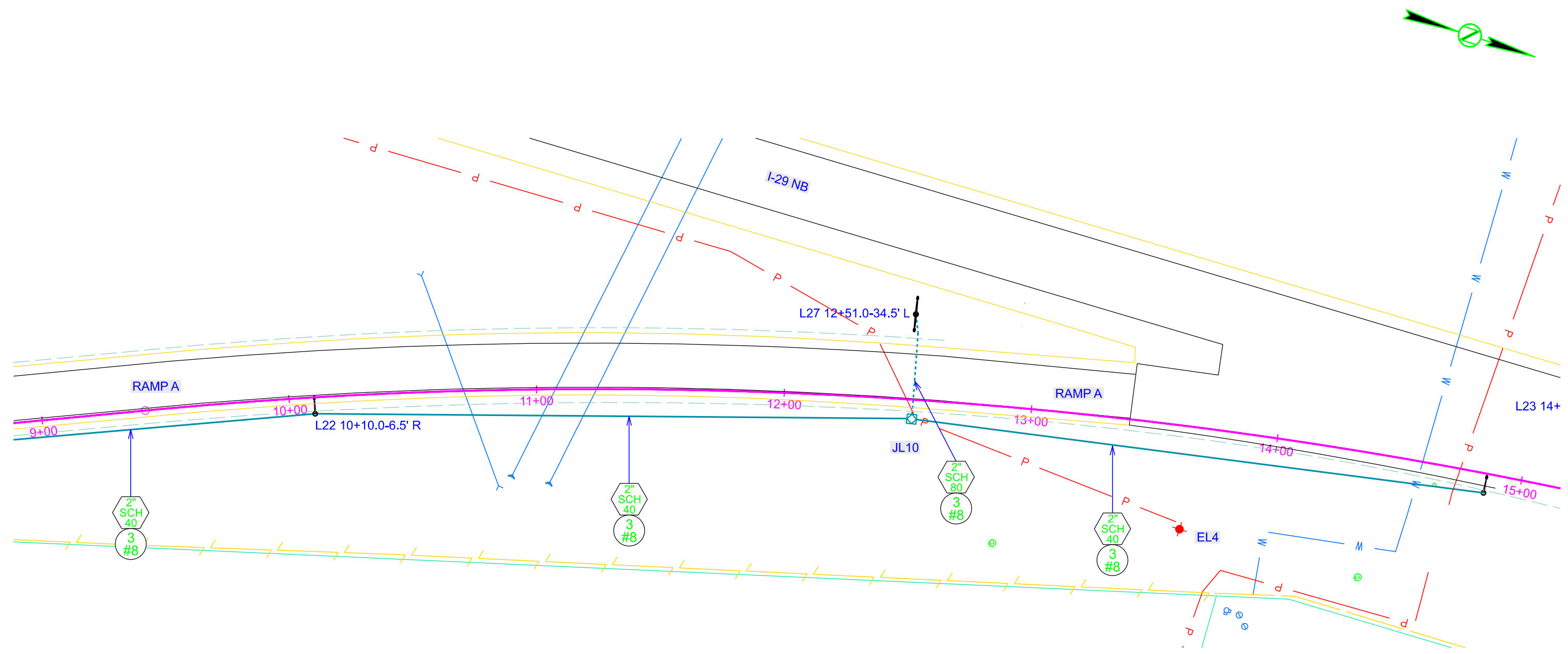
I-29 EXIT 132 RAMP A

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	24	35

Plotting Date: 5/7/2026

Plot Scale - 1:40

Plotted From - TRR015324



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CONDUIT LAYOUT

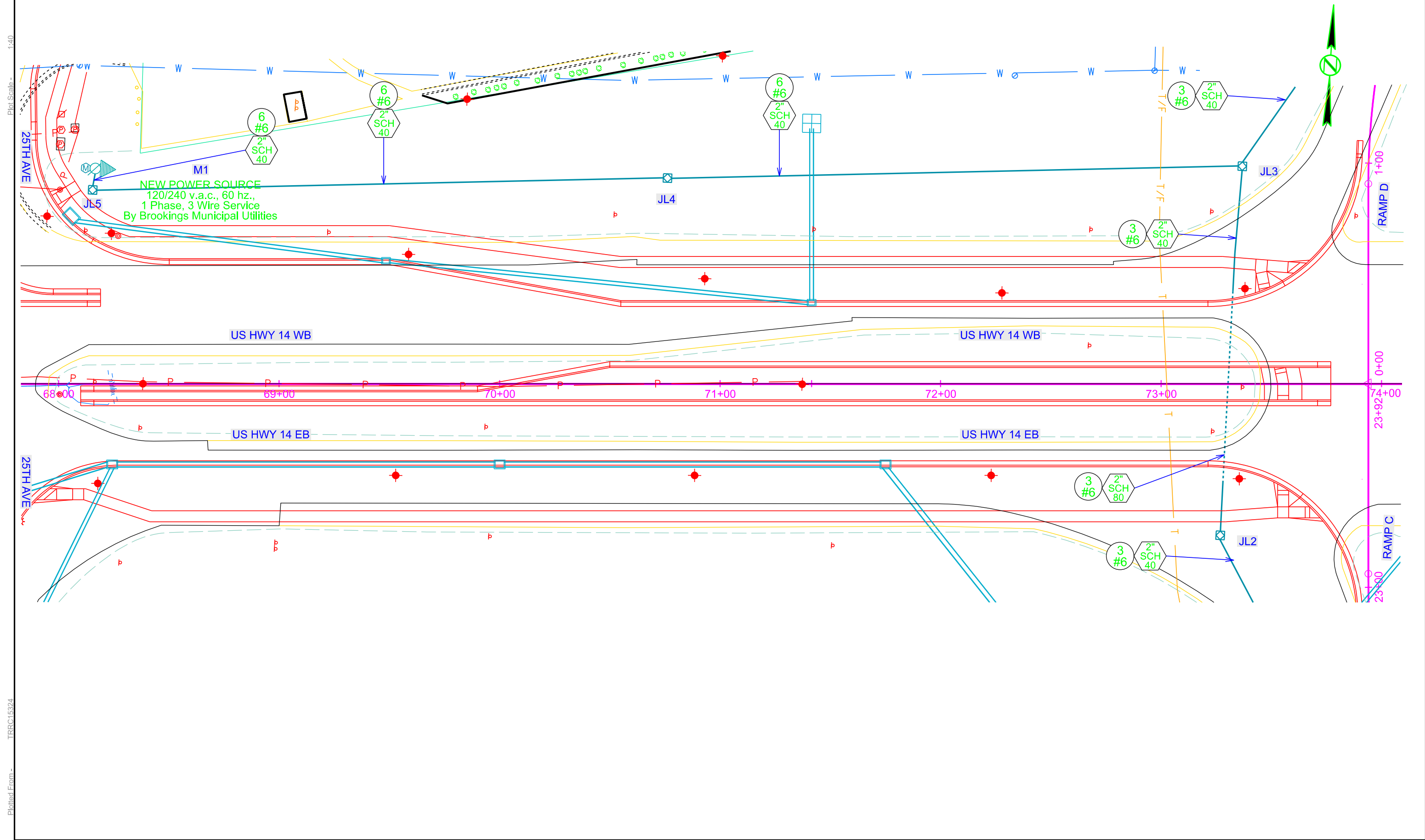
US HWY 14 & 25TH AVE

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	25	35

Plotting Date: 5/7/2026

Plot Scale - 1"=40'

Plotted From - TRR015924



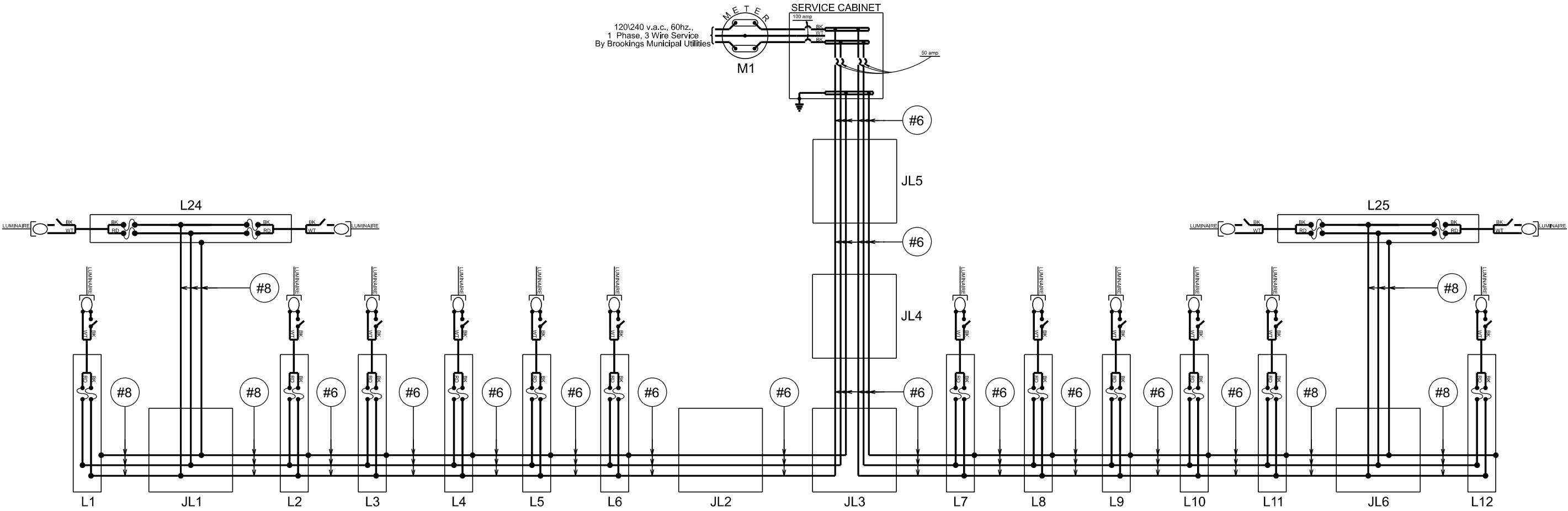
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WIRING DIAGRAM

RAMP C & RAMP D

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	26	35

Plotting Date: 5/7/2026



LEGEND:

FUSE: 10 amp.

LUMINAIRE: LED

PHOTOCELL (TYPICAL OF ALL)

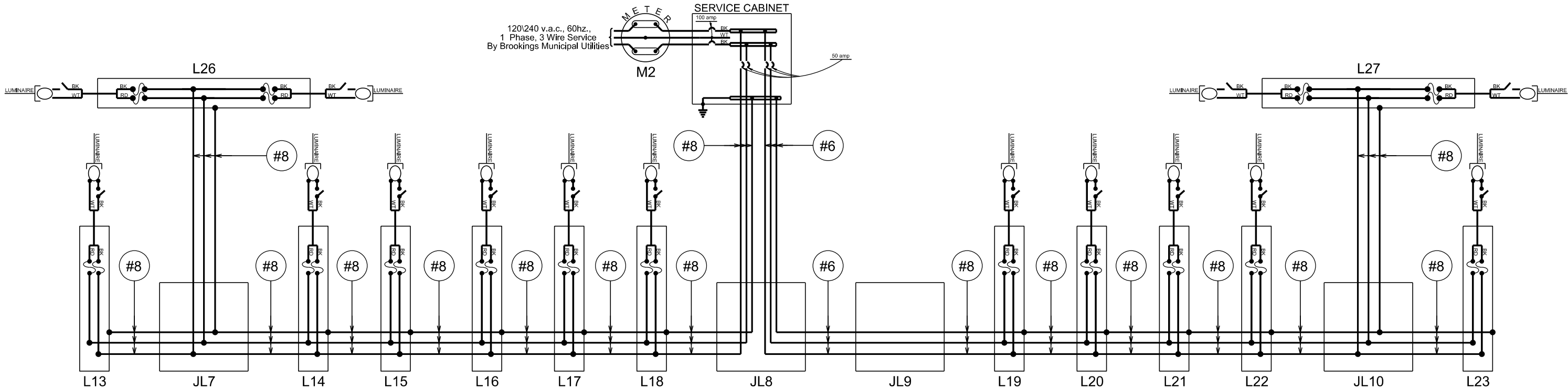
NOTE:
All circuits will be bonded in accordance with the NATIONAL ELECTRICAL CODE. Quantities for bonding conductors are not included in these plans.

WIRING DIAGRAM

RAMP B & RAMP A

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	27	35

Plotting Date: 5/7/2026



LEGEND:

 FUSE: 10 amp.

 LUMINAIRE: LED

 PHOTOCELL (TYPICAL OF ALL)

NOTE:
All circuits will be bonded in accordance
with the NATIONAL ELECTRICAL CODE.
Quantities for bonding conductors are not
included in these plans.

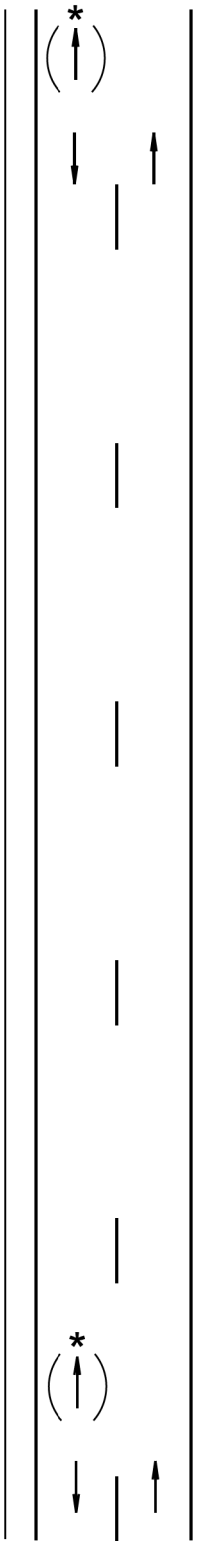
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

The signs illustrated will be used where there are distracting situations; such as: vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations.

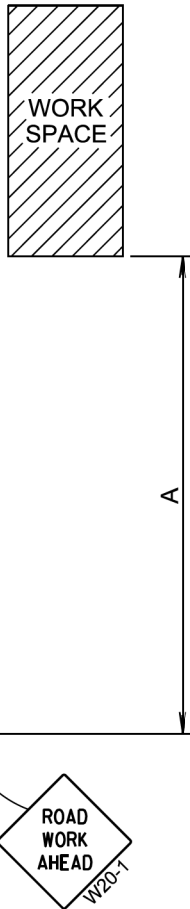
The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

* If the work space is on a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.

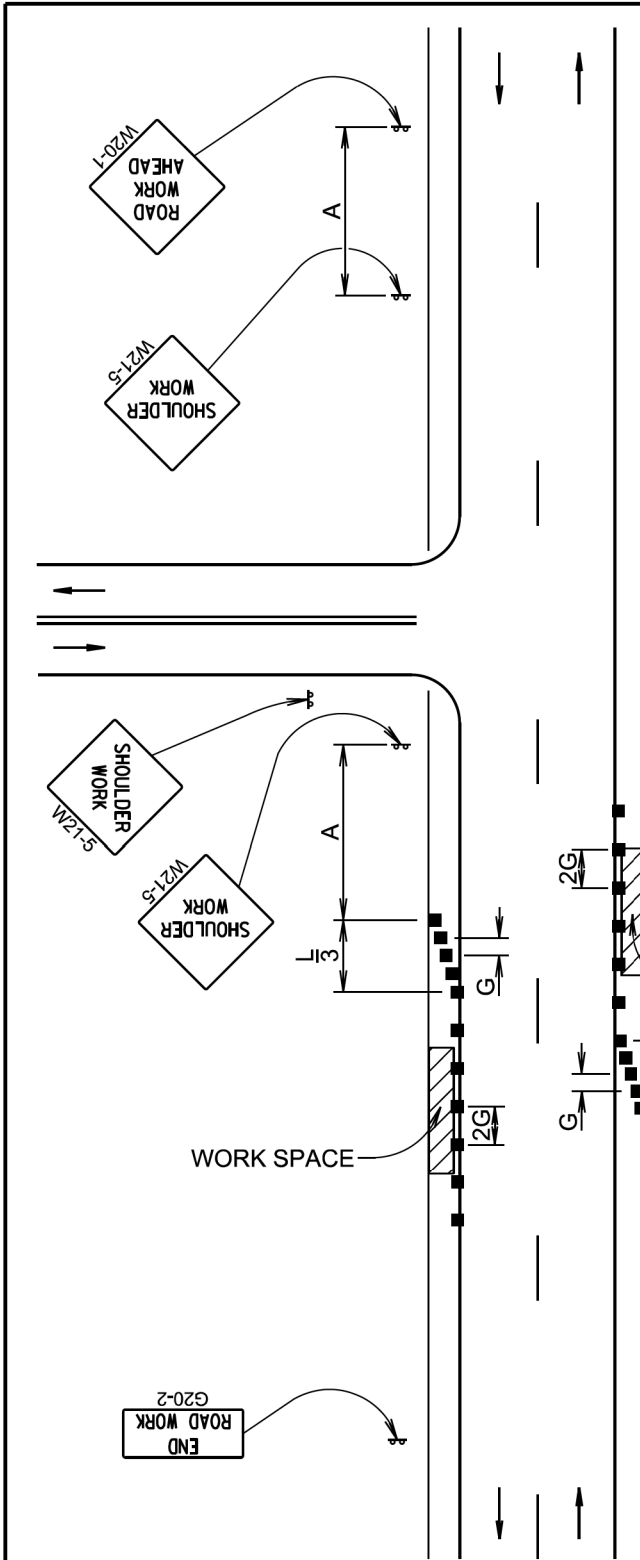


Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)
0 - 30	200
35 - 40	350
45 - 50	500
55	750
60 - 80	1000



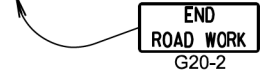
January 22, 2021

Published Date: 2026	S D D O T	WORK BEYOND THE SHOULDER	PLATE NUMBER 634.01
			Sheet 1 of 1



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Taper Length (Feet) (L)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50
55	750	660	50
60 - 65	1000	780	50

Channelizing Device



The channelizing devices will be drums or 42" cones if traffic control must remain overnight.

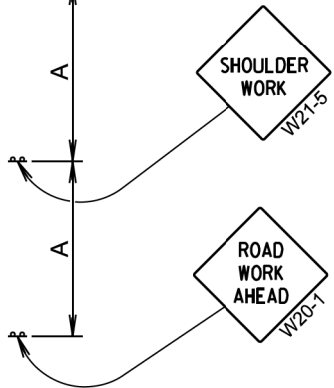
For short duration operations (1 hour or less) all channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.

Worker signs (W21-1 or W21-1a) may be used instead of SHOULDER WORK signs.

A SHOULDER WORK sign should be placed on the left side of a divided or one-way roadway only if the left shoulder is affected.

The SHOULDER WORK sign on an intersecting roadway is not required if drivers emerging from that roadway will encounter another advance warning sign before they reach a work activity area.

WORK SPACE

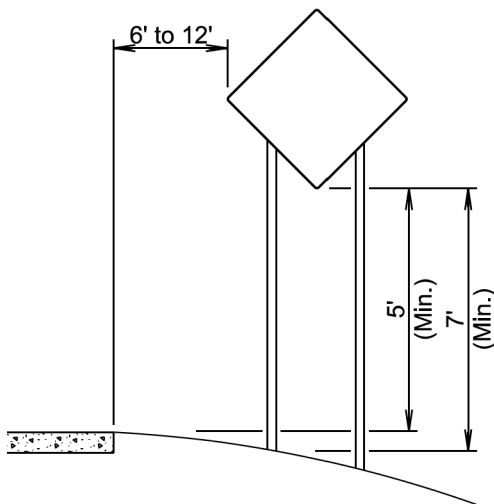


January 22, 2021

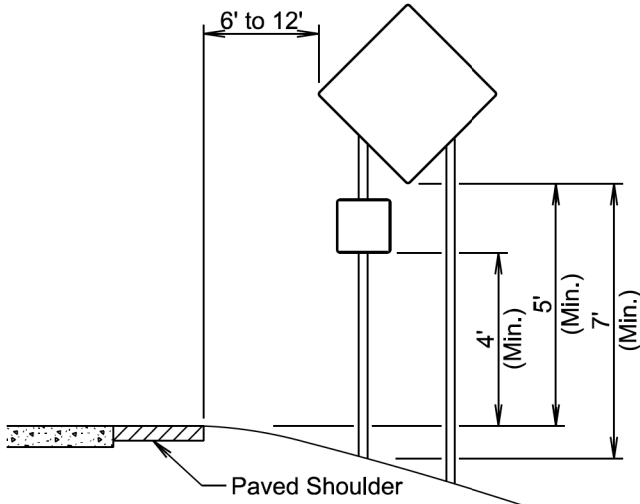
Published Date: 2026	S D D O T	WORK ON SHOULDERS	PLATE NUMBER 634.03
			Sheet 1 of 1

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	30	35

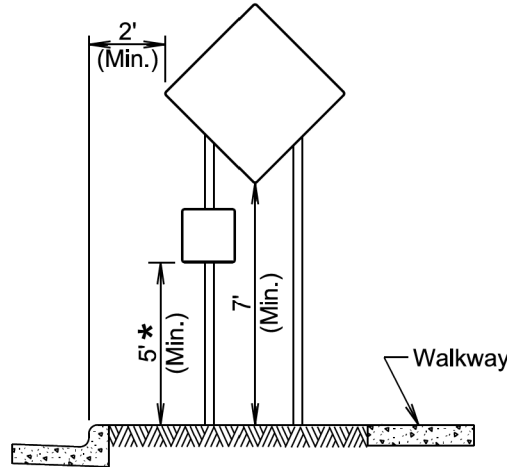
Plotting Date: 5/7/2026



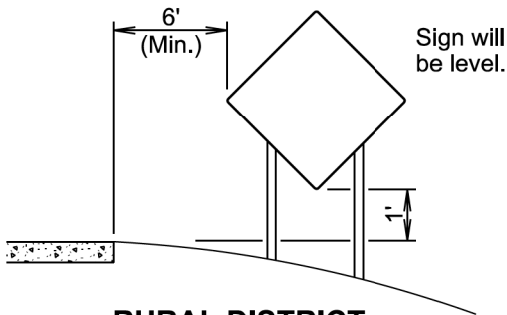
RURAL DISTRICT



RURAL DISTRICT WITH
SUPPLEMENTAL PLATE



URBAN DISTRICT

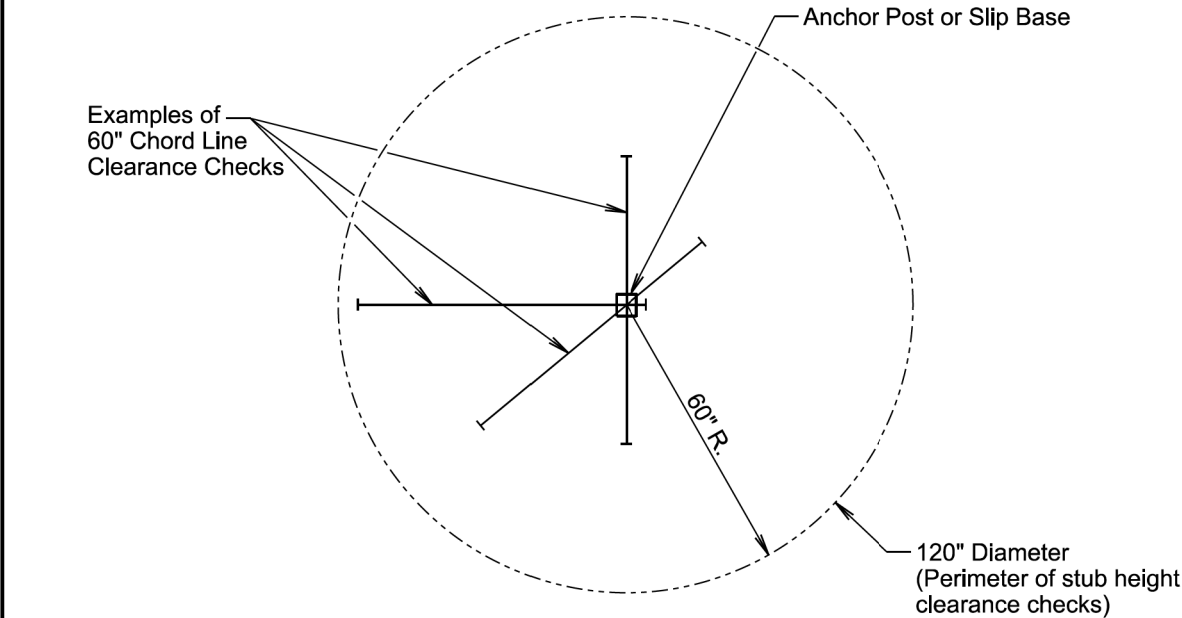


RURAL DISTRICT
3 DAY MAXIMUM
(Not applicable to regulatory signs)

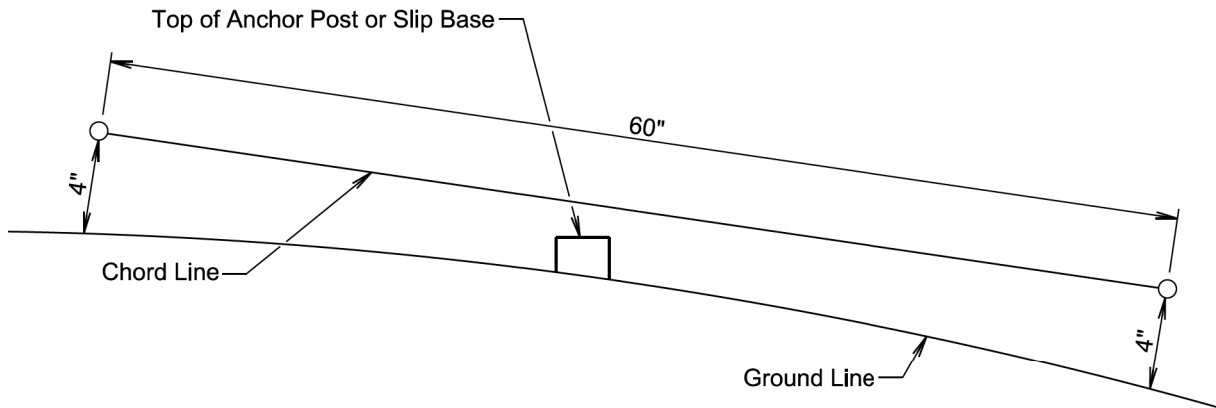
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

Published Date: 2026	S D D O T	CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
			Sheet 1 of 1



PLAN VIEW
(Examples of stub height clearance checks)



ELEVATION VIEW

GENERAL NOTES:

The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

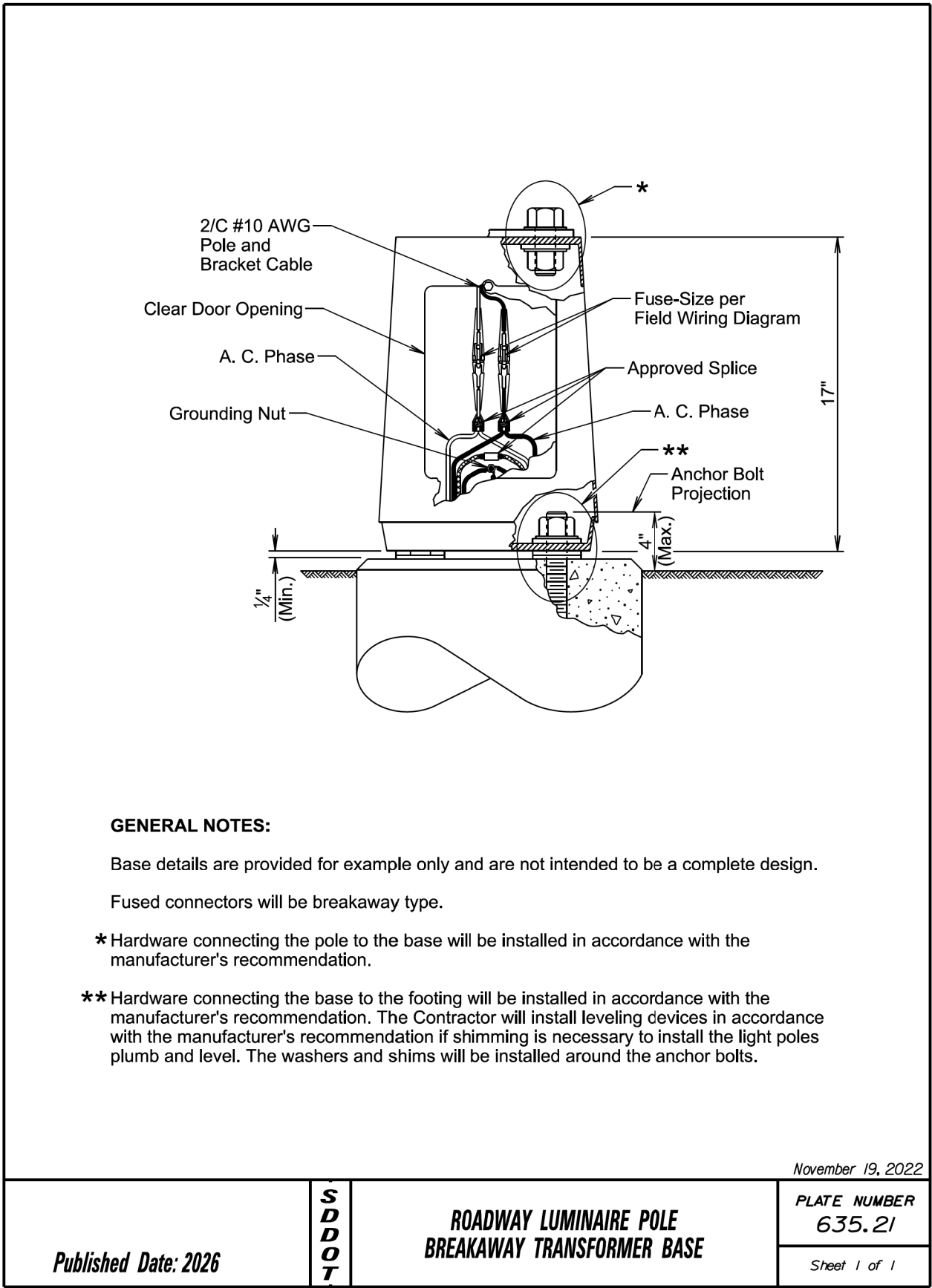
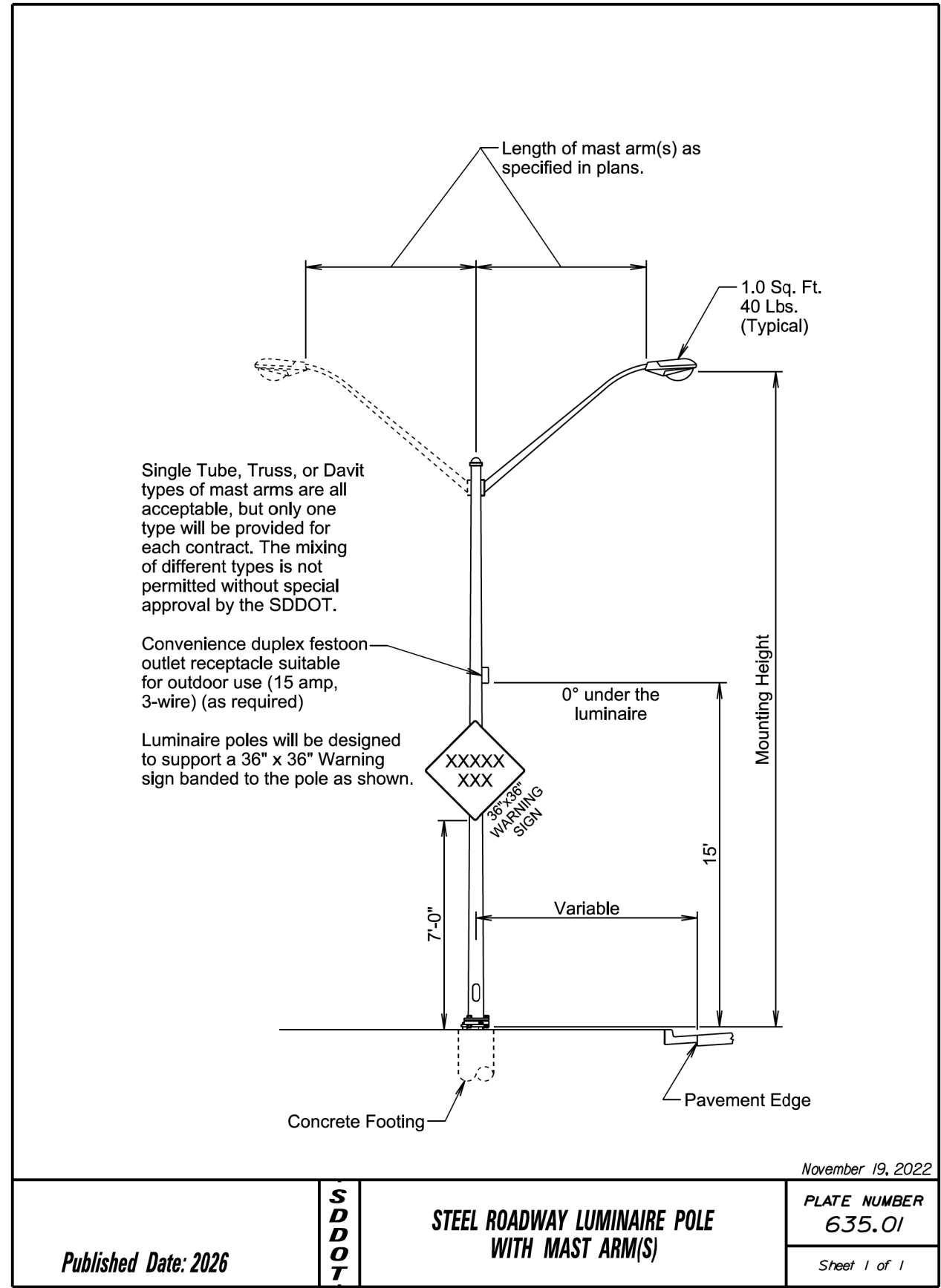
The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

January 22, 2021

Published Date: 2026	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1

1:200
Plot Scale -

Plotted From - TRR015324

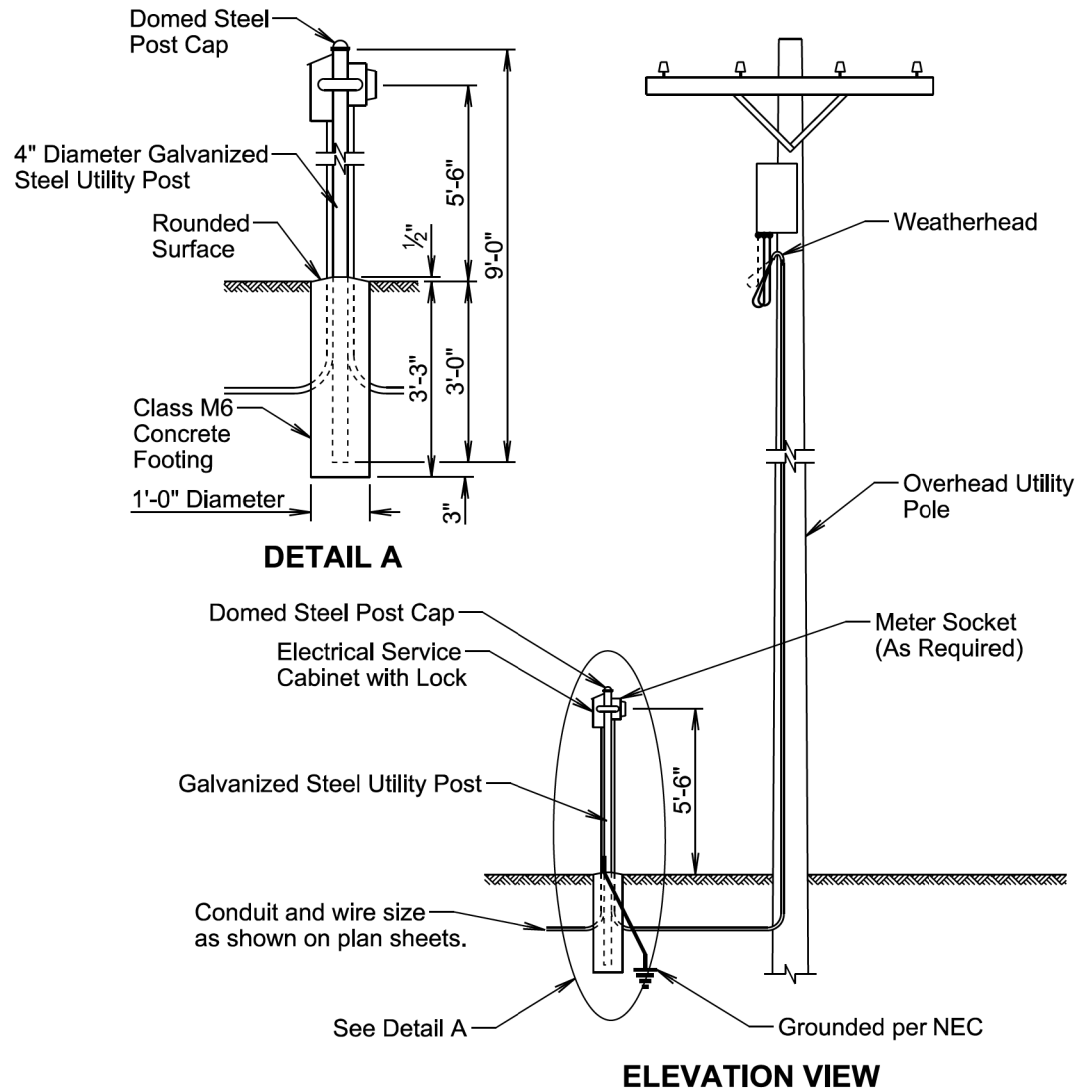


Plot Scale - 1:200

Plotted From - TRR015924

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	32	35

Plotting Date: 5/7/2026



GENERAL NOTES:

The concrete for the post footing will be class M6 concrete.

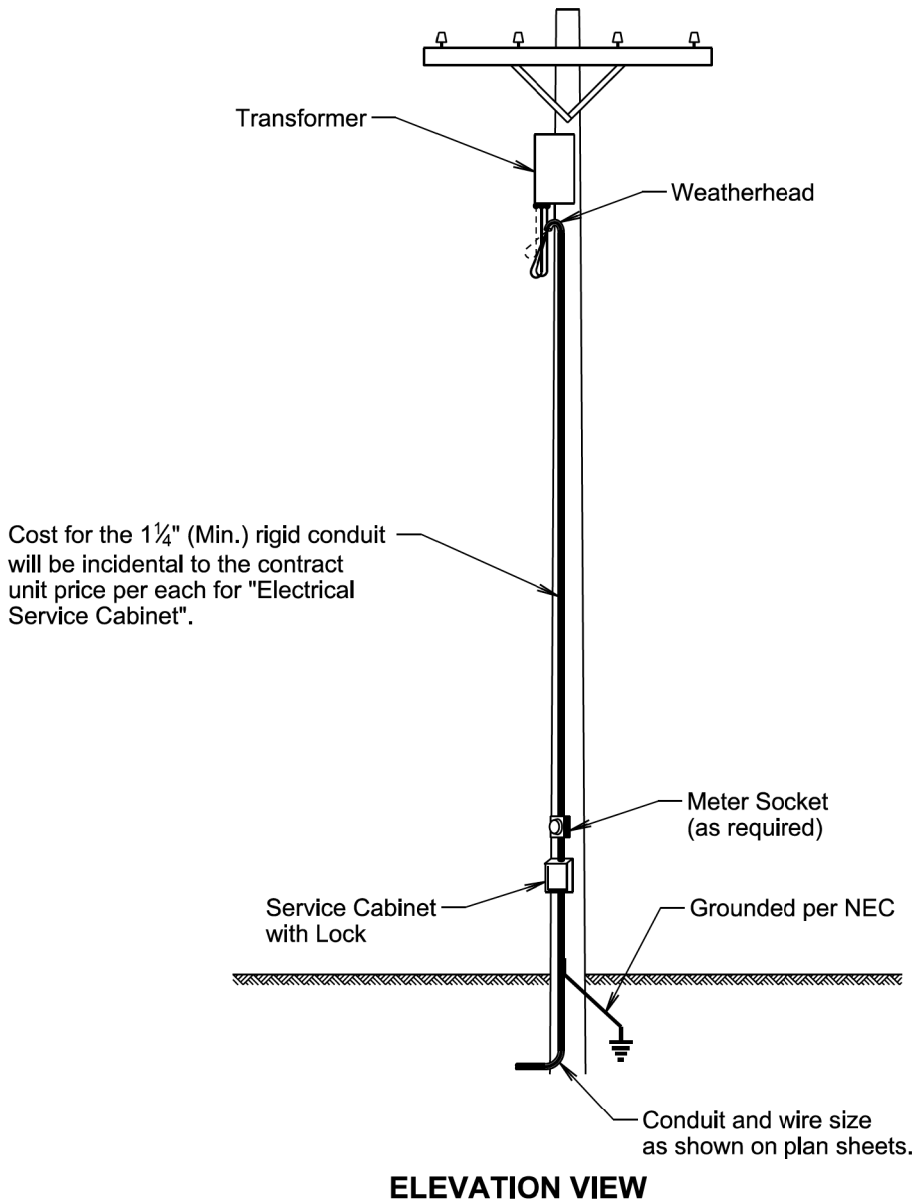
The 4" diameter galvanized steel utility post will be 9' long and will be in conformance with AASHTO Standard Specifications M181. The post will be Type 1 and either Grade 1 or Grade 2. The domed steel post cap will be in conformance with AASHTO Standard Specifications M181 and will be Type 1.

The Contractor will contact and coordinate his/her work with the Utility Companies regarding hookup requirements, fees, materials, and equipment necessary.

All costs for furnishing and installing all materials from the electrical service cabinet to the transformer including labor, equipment, hookup fees, all items within the cabinet, lockable enclosure with receptacle outlet, lock and keys, post, concrete footing, post cap, meter socket if required, conduit, and incidentals will be incidental to the contract unit price per each for "Electrical Service Cabinet".

March 31, 2024

<i>Published Date: 2026</i>	S D D O T	GALVANIZED STEEL UTILITY POST WITH OVERHEAD UTILITY POLE	PLATE NUMBER 635.35
			Sheet 1 of 1



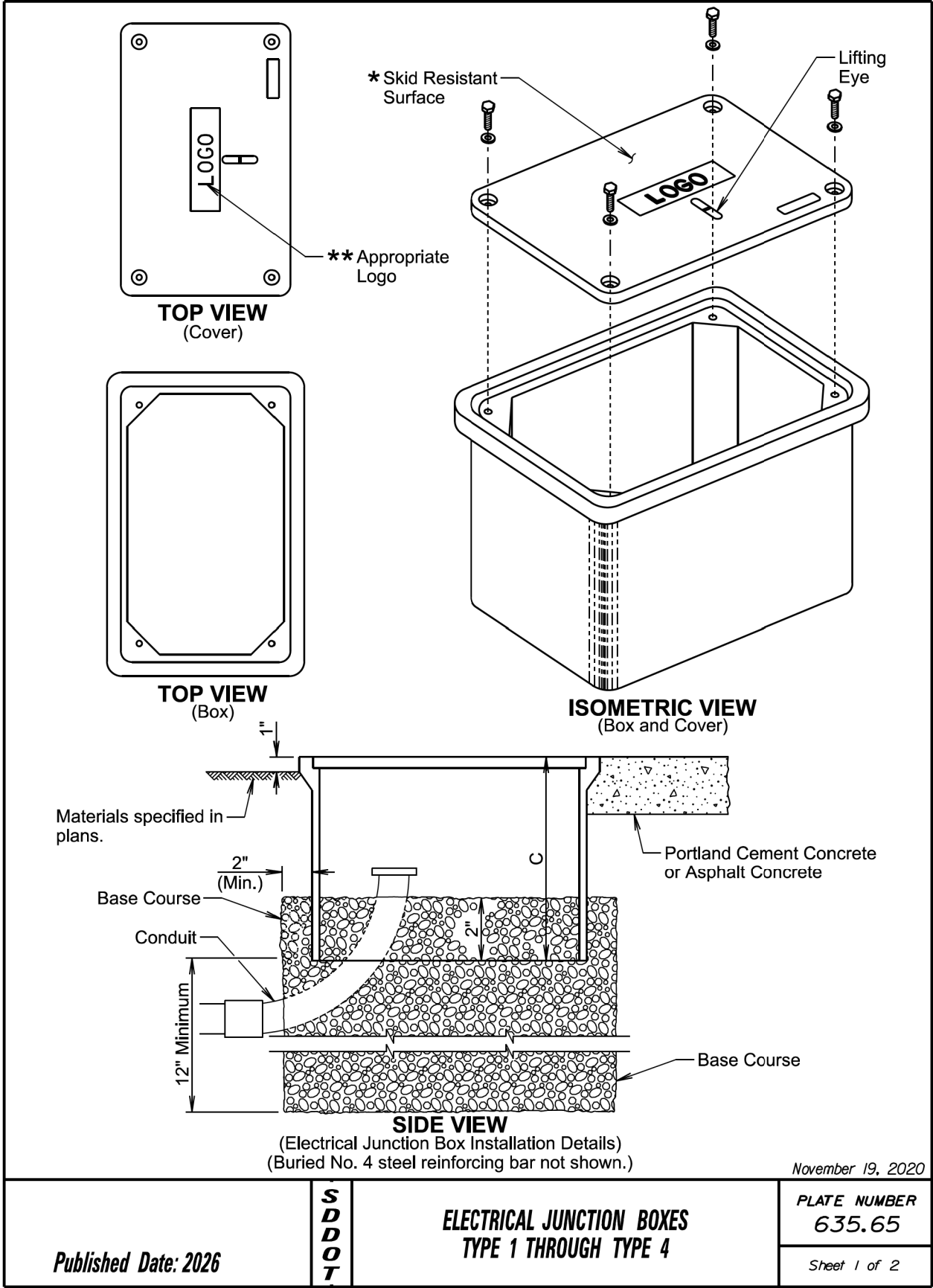
GENERAL NOTES:

All costs for furnishing and installing all materials from the electrical service cabinet to the transformer including labor, wire, equipment, hookup fees, all items within the cabinet, lockable enclosure with receptacle outlet, lock and keys, meter socket if required, conduit and incidentals will be incidental to the contract unit price per each for "Electrical Service Cabinet".

March 31, 2024

<i>Published Date: 2026</i>	S D D O T	SERVICE CABINET ON OVERHEAD UTILITY POLE	PLATE NUMBER 635.40
			Sheet 1 of 1

File - ...ldgm\StdPlate\NonSection.dgn



ELECTRICAL JUNCTION BOX			
TYPE	DESCRIPTION	APPROXIMATE COVER SIZE	MINIMUM DEPTH (C)
1	Open Bottom with Gasket	11"x18"	18"
2	Open Bottom with Gasket	13"x24"	18"
3	Open Bottom with Gasket	17"x30"	18"
3A	Open Bottom with Gasket	24"x36"***	24"
4	Open Bottom with Gasket	30"x48"***	24"

GENERAL NOTES:

The cover will be gasketed with a minimum of two stainless steel bolts and washers.

The cover will have a lifting eye.

* The surface of the cover will have a minimum wet and dry coefficient of friction value of 0.5 as determined by ASTM F609.

** The cover of the junction box will have the appropriate logo in one inch size letters and will be recessed. When the junction box contains cables or wires for a traffic signal then the logo will be "Signal". When the junction box contains lighting conductors then the logo will be "Lighting".

*** Two piece covers will be used for Type 3A and Type 4 junction boxes.

The electrical junction boxes will comply with the American National Standards Institute (ANSI)/Society of Cable Telecommunications Engineers (SCTE) 77 2007 Specification for Underground Enclosure Integrity. The loading requirement for all electrical junction boxes and covers will be Tier 22 of ANSI/SCTE 77 2007.

The electrical junction boxes will be UL listed.

For junction boxes located outside of pavement, a No. 4 steel reinforcing bar with a minimum length of 18" will be buried adjacent to the long side of the junction box. All costs associated with furnishing and placing the steel reinforcing bar will be incidental to the contract unit price per each for "Type _ Electrical Junction Box".

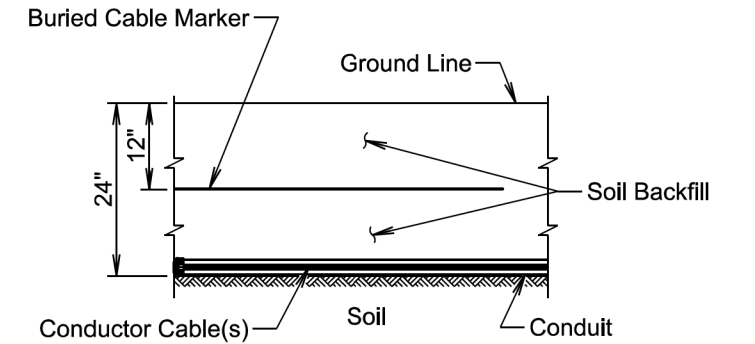
November 19, 2020

Published Date: 2026	S D D O T	ELECTRICAL JUNCTION BOXES TYPE 1 THROUGH TYPE 4	PLATE NUMBER 635.65
			Sheet 2 of 2

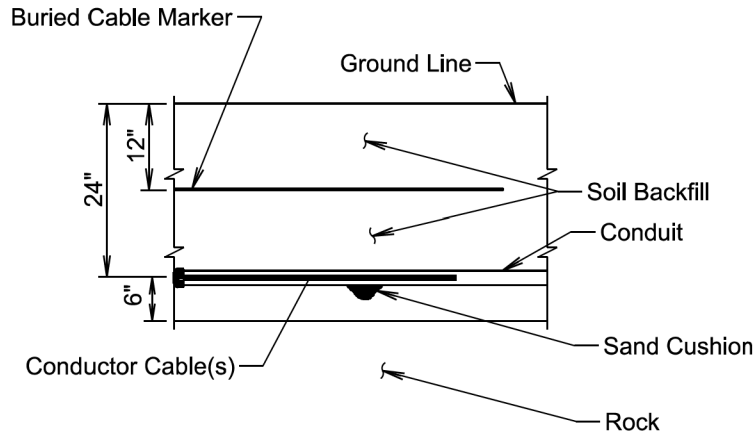
1:200
Plot Scale -
Plotted From - TRRC15324

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0295(50)132	35	35

Plotting Date: 5/7/2026



SECTION VIEW



SECTION VIEW

GENERAL NOTE:

The Buried Cable Marker will be plastic, approximately 6" wide, and will be capable of sustaining a minimum of a 350% tolerance of elongation without tearing. The Buried Cable Marker will have a life expectancy approximately equal to that of the conductor(s) beneath it. A phrase indicating the presence of a buried electric circuit below will be printed in a contrasting color on the cable marker. The Buried Cable Marker will be subject to approval by the Engineer. All costs associated with furnishing and installing the Buried Cable Marker will be incidental to the contract unit price per foot for the bid item used for the electrical conductor.

November 19, 2022

<i>Published Date: 2026</i>	S D D O T	CONDUIT INSTALLATION	<i>PLATE NUMBER</i> 635.76
			<i>Sheet 1 of 1</i>

File - ...ldgm\StdPlate\NonSection.dgn