
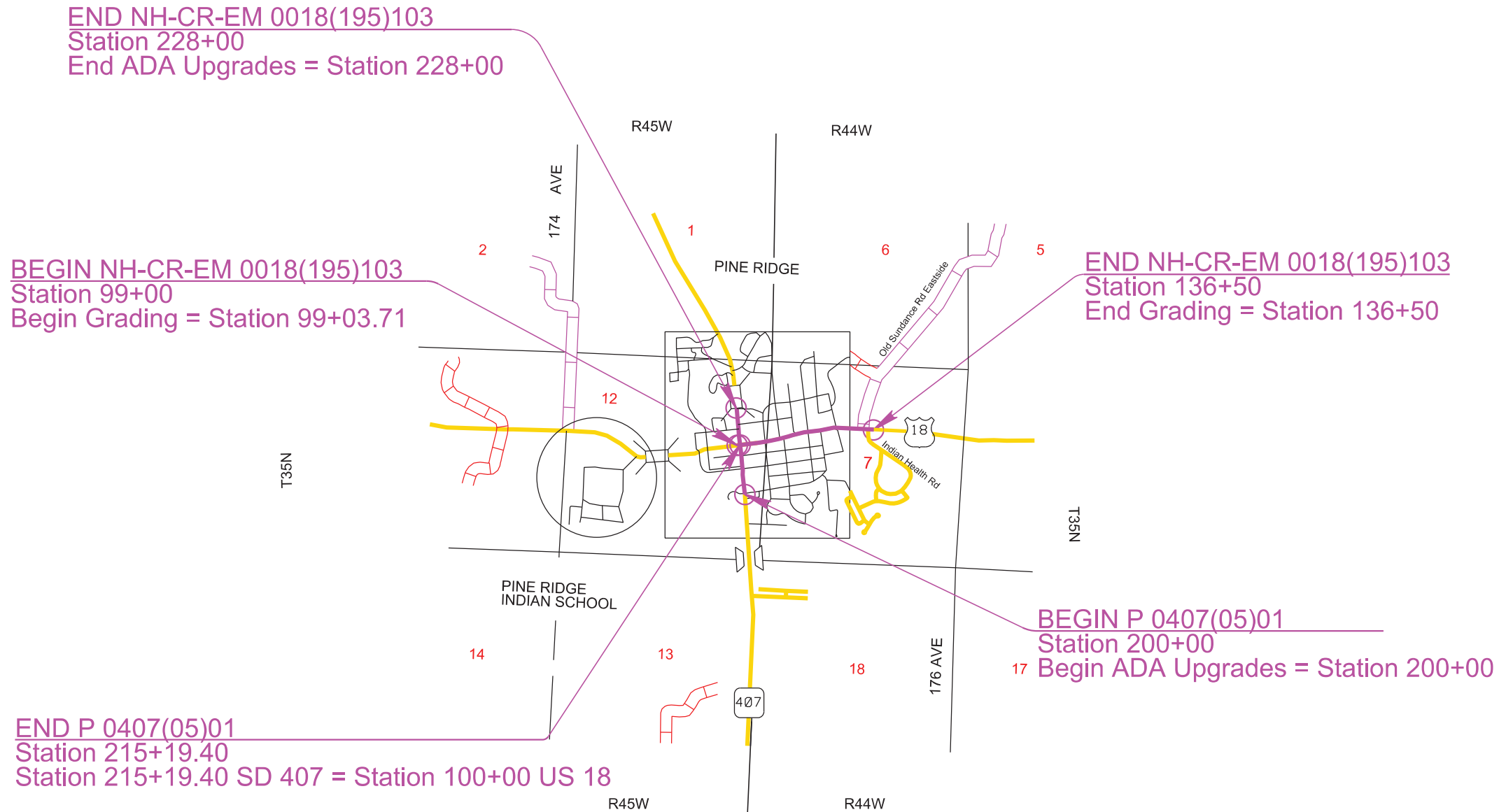


SECTION S: PERMANENT SIGNING PLANS

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR-EM 0018(195)103 P 0407(05)01	S1	S21
Plotting Date: 7/31/2024		Rev. 8/2/2024 BAF	

INDEX OF SHEETS

S1	General Layout with Index
S2-S3	Estimate with General Notes & Tables
S4-S7	Sign Tables - PCN 04FC - US18
S8	Sign Tables - PCN 06N3 - SD407
S9-S11	Permanent Signing Layout
S12-S14	Special Sign Details
S15-S17	Typical Sign Details
S18-S21	Standard Plates



Plot Scale - 1:200

Plotted From - brandonfried

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SECTION S – ESTIMATE OF QUANTITIES

PCN 04FC

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	12	Each
110E7150	Remove Sign for Reset	26	Each
632E1320	2.0"x2.0" Perforated Tube Post	235.6	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	13.0	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	552.4	SqFt
632E3500	Reset Sign	26	Each
632E3710	Radar Speed Sign, Solar Powered	2	Each

PCN 06N3

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	3	Each
110E7150	Remove Sign for Reset	6	Each
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	78.0	SqFt
632E3500	Reset Sign	6	Each
632E3710	Radar Speed Sign, Solar Powered	1	Each

GENERAL PERMANENT SIGNING

New sign installations will be staked in the field by the Contractor and checked by the Engineer. The Contractor will give the Engineer a minimum of one week to check staked locations prior to signpost installation. Lateral offset of signs will be as shown in the plans or as directed by the Engineer.

The Contractor will be responsible for contacting South Dakota One Call to locate the utilities at the staked sign installation locations.

When signs are mounted in an assembly, they will be 1-2 inches apart vertically and horizontally.

The height of the post must not exceed the minimum height needed by more than 0.5 feet. Any portion that extends above the sign will be cut off. No separate payment will be made for cutting the post or for that length cut off.

Aluminum U-Channel stiffeners will be used on all signs 36 inches or greater in width and will conform to ASTM B221 Alloy 6063-T6 or 6061-T6. The U-Channel will be 2 inches in width and free of holes. The U-Channel stiffeners will also be used to connect various signs together so that an entire sign assembly can be erected on a single installation. Stiffeners may be fastened to signs by use of 1/4-inch diameter drive rivets.

The Contractor will use 3/8-inch diameter rust proof machine sign bolts, flat metal washers, neoprene washers (against the sign sheeting), lock washers, and nuts to fasten the sign to the channel aluminum and posts. A minimum of two bolts will extend through each post.

Prior to ordering signs, the Contractor will verify dimensions, background, border, and legend of the signs.

Prior to use, the Contractor will provide documentation for the sign support devices showing they meet the applicable NCHRP 350 or MASH requirements.

UGLALA SIOUX TRIBE COORDINATION

Prior to furnishing street name signs, the street names will be confirmed with the Tribal Department of Public Safety 911 office. Contact Troy Ferguson at 605-867-8130.

REMOVE TRAFFIC SIGN

Existing signs that are shown as being removed in the Permanent Signing Table will become the property of the Contractor. Existing signposts and bases will be removed in their entirety. All existing signs, posts, and/or hardware removed will not be reused. Holes remaining from the removal of wood posts will be backfilled and compacted with material placed in layers not to exceed 6 inches in depth.

All costs associated with the removal of existing signs, posts, hardware, and backfilled holes will be incidental to the contract unit price per each for "Remove Traffic Sign". Quantities will be per assembly at the contract unit price per each.

REMOVE SIGN FOR RESET AND RESET SIGN

Signs that are scheduled for reset will be dismantled and reassembled to the extent needed by the Contractor to properly reset the sign. Signs will be handled with care so that the existing signs, posts, and bases are not damaged during the relocation process. The Contractor will replace and pay for any reset signs damaged in their care. The Contractor will remove and dispose of any existing posts for all reset signs that require use of new posts as shown in the Table of Permanent Signing.

All costs for removing, dismantling, and disposing of any existing posts will be incidental to the contract unit price per each for "Remove Sign for Reset". All costs for resetting the existing signs will be incidental to the contract unit price per each for "Reset Sign". All quantities for Remove Sign for Reset and Reset Sign will be per assembly at the contract unit price per each.

NEW PERMANENT SIGNING

All signs will be manufactured in accordance with the sheeting manufacturer's recommendations utilizing a matched component system, including inks, electronic cuttable films, and protective overlay films.

All Flat Aluminum Signs, Nonremovable Copy High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type IV. All Flat Aluminum Signs, Nonremovable Copy Super/Very High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type XI.

All costs associated with furnishing and installing the new permanent signs, and with furnishing and installing stiffeners and hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy High Intensity" or "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

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SQUARE TUBE ANCHOR SLEEVE

The Contractor will furnish and install new 2.5" x 2.5" x 18", 12 Gauge square tube anchor sleeve or equivalent components as approved by the Engineer for 2.0" x 2.0" perforated tube posts. A 2.25" x 2.25" x 4', 12 Gauge perforated tube post will be used as the anchor post for installation with the square tube anchor sleeve.

OVERHEAD AND POLE MOUNTED SIGNS

The Contractor will install the new overhead signs with new connection hardware and mast arm mounting hardware.

Signs that are mounted on pedestrian poles and signal mast arms will be attached with high strength stainless steel bands or galvanized pole clamps. Signs will be attached as recommended by the manufacturer. All sign mounting hardware will be stainless steel or galvanized steel.

All costs for pole and mast arm sign mounting hardware will be incidental to the contract unit price per square foot "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

SIGNPOST INSTALLATION IN CONCRETE

On concrete surfaces, a core will be drilled out or a block out will be for sign installation. The core or block out diameter will be sized accordingly depending on post size. Concrete surrounding the core or block out must not be cracked or damaged.

All costs associated with installation in concrete will be incidental to the sign installation.



DIGITALLY PRINTED SIGNS

Digitally printed signs will be allowed on this project. If the Contractor elects to provide digitally printed signs, such signs will adhere to the following specifications.

PROTECTIVE OVERLAY FILM

Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlamine will comply with the retroreflective sheeting manufacturer's recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in Table 1.

Table 1: Retroreflective Film Minimum Durability Requirements

ASTM D4956 Type	Full Sign Replacement Term (years)	Sheeting Replacement Term (years)
I	0	7
III	7	10
IV	7	10
VIII	7	10
IX	7	12
XI	7	12

FABRICATION

Retroreflective sheeting will be applied to a properly cleaned and prepared aluminum sign blank in accordance with the retroreflective sheeting manufacturer's recommendations. Sign legend will be applied using digital print technologies and systems in accordance with the retroreflective sheeting manufacturer's recommendations and the requirements of these plans.

Finished signs will be free of ragged edges and must be supplied clean and free of scratches, grease, oil, lubricants or other contaminants. Minor blemishes (dirt speck, dust, etc.) may settle on the fresh ink surface or become entrapped between the sheeting surface and transparent overlay film due to static charge within the sign shop environment. Any blemish must be minor and not interfere with the communication of the sign message to the motorist. The blemish must not be visible to the naked eye when viewed from 30 feet or greater.

After application of the retroreflective sheeting, sign blanks will be stacked and packaged face to face, back to back, and protected in accordance with the sheeting manufacturer's recommendations. Finished signs will be securely packaged to prevent damage during transit or storage according to the sheeting manufacturer's recommendations.

TRAFFIC SIGN PERFORMANCE WARRANTY PROVISIONS

Based on the ASTM Type of sheeting specified, traffic control signs will be warranted for the duration shown in Table 1. Full product terms and conditions are as established by each sheeting manufacturer and may contain certain limitations based on sheeting and ink colors, and geographic exposure of the sign. A copy of the warranty document with complete details of terms and conditions will be supplied if requested by the Engineer.

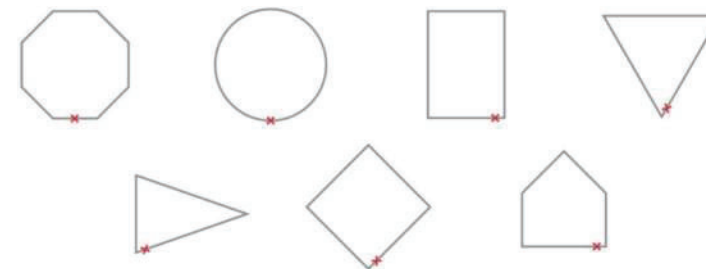
CERTIFIED DIGITAL SIGN FABRICATOR

Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

DATE TAGGING SIGNS WITH PERTINENT INFORMATION

All digitally printed signs are required to be date-tagged with the following 2 components:

1. Date tags on the back of signs
Tags will have the following information and be fabricated with material and printing system that are as durable as the warranted sign.
 - Name of Sign Fabricator
 - Date the sign was fabricated (month and year)
 - Process that was used for sign fabrication (digitally printed)
 - Supplier of sheeting that was used for fabricating the sign.
2. Border date
The month and year (mm/yyyy) of sign fabrication will be printed in the border of the sign in 3/8" sans serif font. Border date will be printed with the same warranted printed system as the sign face. The date should be printed in the locations indicated below.



SOLAR POWERED RADAR SPEED SIGNS

Solar Powered Radar Speed Signs will replace existing speed limit signs in locations noted within the Table of Solar Powered Radar Speed Signs.

A quantity for 1 additional solar powered radar speed sign has been added to the estimate of quantities for installation within the project limits or to replace an existing speed limit sign outside the project work limits. The location for installing the additional solar powered radar speed sign or for removal and replacement of an existing speed limit sign located outside the project work limits will be determined by the Engineer.

All costs for removing an existing speed limit signs outside the project work limits, installing a new solar powered radar speed sign, materials, labor, etc. will be incidental to the contract unit price per each for "Radar Speed Sign, Solar Powered."

04FC – TABLE OF SOLAR POWERED RADAR SPEED SIGNS

Station to	Offset	Speed (MPH)	Quantity (Each)
125+12	24.7' L	25	1
Additional Quantity:			1
Total:			2

PCN 06N3 – TABLE OF SOLAR POWERED RADAR SPEED SIGNS

Station to	Offset	Speed (MPH)	Quantity (Each)
209+84	29.5' Rt	25	1
Total:			1



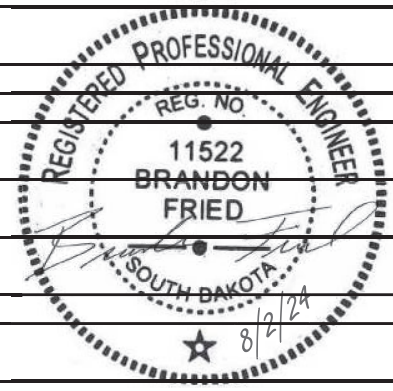


STATE OF SOUTH DAKOTA

PROJECT
NH-CR-EM 0018(195)103
P 0407(05)01SHEET
S4TOTAL SHEETS
S21

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Existing Location		Proposed Location		SIGN										POST		Remarks		
Station	Offset	Station	Offset	Description	Width (In)	Height (In)	Sign Code	Direction Sign Faces	Remove Traffic Sign (Each)	Remove Sign for Reset (Each)	Reset Sign (Each)	Type IV High Intensity (SqFt)	Type XI Super/Very High Intensity (SqFt)	Flourescent Yellow/ Green	2.0"X2.0" Perforated Tube Post 12 ga. (FT)		(N.A.B.I.) Square Tube Anchor Sleeve (Each)	Current Type of Post
PCN 04FC - US18																		
	99+62	7.5' Lt		SD Highway Sign	36	36	M1-5	E					9.0					Install New Signs on Signal Mast Arm [SD 407 Highway Sign above Directional Arrow]
				Directional Arrow (L)	30	21	M6-1PL	E					4.4					
	99+63	10.7' Lt		US Route Sign	36	36	M1-4	E					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Directional Arrow]
				Directional Arrow (R)	30	21	M6-1PR	E					4.4					
	99+63	28.0' Lt		Special Sign 3	108	24		E					18.0					Install New Sign on Signal Mast Arm
	99+74	43.1' Rt		Special Sign 2	114	24		N					19.0					Install New Sign on Signal Mast Arm
	99+91	43.4' Rt		SD Highway Sign	36	36	M1-5	N					9.0					Install New Signs on Signal Mast Arm [SD 407 Highway Sign above Directional Arrow]
				Directional Arrow (Up)	30	21	M6-3P	N					4.4					
	99+94	43.5' Rt		US Route Sign	36	36	M1-4	N					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Directional Arrow]
				Directional Arrow (L)	30	21	M6-1PL	N					4.4					
	100+07	36.2' Lt		US Route Sign	36	36	M1-4	S					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Multi-Directional Arrows]
				Multi-Directional Arrow (Up/R)	30	21	M6-6PR	S					4.4					
	100+20	35.9' Lt		Special Sign 1	114	24		S					19.0					Install New Sign on Signal Mast Arm
	100+48	32.2' Lt		Diagonal Downward Arrow (R)	21	15	W16-7R	SE					2.2	Y				Install New Signs on New Post [Pedestrian above Diagonal Downward Arrow (R)]
				Pedestrian	30	30	W11-2	SE					6.3	Y	15.0	1		
	100+50	17.9' Rt		US Route Sign	36	36	M1-4	N					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Multi-Directional Arrow]
				Multi-Directional Arrow (Up/L)	30	21	M6-6PL	N					4.4					
	100+50	21.0' Rt		SD Highway Sign	36	36	M1-5	N					9.0					Install New Signs on Signal Mast Arm [SD 407 Highway Sign above Directional Arrow]
				Directional Arrow (R)	30	21	M6-1PR	N					4.4					
	100+73	57.3' Lt		Diagonal Downward Arrow (L)	21	15	W16-7L	SE					2.2	Y				Install New Signs on New Post [Pedestrian above Diagonal Downward Arrow (L)]
				Pedestrian	30	30	W11-2	SE					6.3	Y	15.0	1		
101+20	33.4' Rt	101+20	24.7' Rt	No Parking	24	24	R8-3	W		1	1						Perforated Tube	Reset Signs and Post
				No Parking Any Time	12	18	R7-1	N										
	101+22	38.7' Lt		Turning Vehicles Yield to Pedestrians	30	30	R10-15	E					6.3		13.5	1		Install New Sign on New Post
	101+81	38.7' Lt		Pedestrian Ahead	30	30	W11-2	E					6.3	Y	14.7	1		Install New Signs on New Post [Pedestrian above Ahead]
					24	12	W16-9P	E					2.0	Y				
102+09	32.6' Rt	101+80	23.7' Rt	No Parking Any Time	12	18	R7-1	N		1	1				12.5	1	Luminaire Pole	Reset Sign on New Post
102+81	37.0' Rt	Same		Taco John's Drive Thru			Private	E/W									Steel Pole	Do Not Disturb
105+15	48.5' Lt	Same		Pine Ridge Presbyterian Church			Private	SW									2x Plastic Posts	Do Not Disturb
105+18	48.5' Lt	Same		Pine Ridge Presbyterian Church			Private	SE									2x Plastic Posts	Do Not Disturb
105+69	35.9' Lt			Think - Why Die?	36	36	Special	E	1								Perforated Tube	Remove Sign and Post
105+72	36.2' Lt			Think - Why Die?	36	36	Special	E	1								Perforated Tube	Remove Sign and Post
105+74	33.5' Lt	105+74	24.7' Lt	No Parking	24	24	R8-3	E		1	1						Perforated Tube	Reset Sign and Post
106+05	42.7' Lt	106+04	42.7' Lt	Whitetail Deer Rd	42	9	D3-1	E/W										Reset Signs and Post [Whitetail Deer Rd above E Main St above Stop]
				E Main St	30	9	D3-1	N/S		1	1						Perforated Tube	
				Stop	30	30	R1-1	N										
106+50	37.5' Rt	106+46	41.3' Rt	Sioux Nation Ave SE	42	9	D3-1	E/W										Reset Signs and Post [Sioux Nation Ave SE above E Main St above Stop]
				E Main St	30	9	D3-1	N/S		1	1						Perforated Tube	
				Stop	30	30	R1-1	S										
106+59	31.0' Lt	Same		Pine Ridge Oil			Private	E/W									Steel Pole	Do Not Disturb
108+88	42.3' Lt	Same		Pine Ridge Gospel Fellowship			Private	SE									2x Wooden Poles	Do Not Disturb
110+19	43.1' Lt	110+18	40.2' Lt	Prairie View Ave	42	9	D3-1	E/W										Remove Stop Sign and Install New Stop Sign on Existing Post. Reset Road Name Streets on Existing Post. [Prairie View Ave above E Main St above Stop]
				E Main St	30	9	D3-1	N/S		1	1						Perforated Tube	
				Stop	30	30	R1-1	N	1				5.2					
				Diagonal Downward Arrow (L)	21	15	W16-7L	W					2.2	Y				
				Diagonal Downward Arrow (R)	21	15	W16-7R	E					2.2	Y				
	106+68	26.2' Rt		Pedestrian	30	30	W11-2	W					5.2	Y	15.0	1		Install New Signs Back to Back on New Post [Pedestrian above Diagonal Directional Arrow]
				Pedestrian	30	30	W11-2	E					5.2	Y				
Subtotal:									3	6	6	0.0	201.0		85.7	6		





STATE OF SOUTH DAKOTA

PROJECT
NH-CR-EM 0018(195)103
P 0407(05)01SHEET
S5TOTAL SHEETS
S21

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Existing Location		Proposed Location		SIGN										POST		Remarks		
Station	Offset	Station	Offset	Description	Width (In)	Height (In)	Sign Code	Direction Sign Faces	Remove Traffic Sign (Each)	Remove Sign for Reset (Each)	Reset Sign (Each)	Type IV High Intensity (SqFt)	Type XI Super/Very High Intensity (SqFt)	Flourescent Yellow/ Green	2.0"X2.0" Perforated Tube Post 12 ga. (FT)		(N.A.B.I.) Square Tube Anchor Sleeve (Each)	Current Type of Post
PCN 04FC - US18																		
		111+20	25.7' L	Diagonal Downward Arrow (L)	21	15	W16-7L	E					2.2	Y				Install New Signs Back to Back on New Post [Pedestrian above Diagonal Directional Arrow]
				Diagonal Downward Arrow (R)	21	15	W16-7R	W					2.2	Y	15.0	1		
				Pedestrian	30	30	W11-2	E					5.2	Y				
				Pedestrian	30	30	W11-2	W					5.2	Y				
111+76	39.9' Rt	111+75	41.1' Rt	Cheyenne Ave SE	42	9	D3-1	E/W									Perforated Tube	Reset Signs and Post [Cheyenne Ave SE above E Main St above Stop]
				E Main St	30	9	D3-1	N/S	1	1								
				Stop	30	30	R1-1	S										
113+35	42.9' Rt	Same		Denby 12 / Martin 45	68	30	D2-2	W									2x Perforated Tubes	Do Not Disturb
113+89	4.00' Lt	113+92	40.2' Lt	Irving Rd	30	9	D3-1	E/W									Perforated Tube	Reset Signs and Post [Irving Rd above E Main St above Stop]
				E Main St	30	9	D3-1	N/S	1	1								
				Stop	30	30	R1-1	N										
115+53	47.7' Lt	Same		Left Rushville NE / Hot Springs Right	86	30	D1-2	E									2x Perforated Tubes	Do Not Disturb
		117+52	23.7' Lt	Special Sign 5	186	48		E					62.0					Install New Sign on Signal Mast Arm
		117+50	52.5' Rt	US Route Sign	36	36	M1-4	N					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Multi-Directional Arrows]
				Multi-Directional Arrow (L/R)	30	21	M6-4P	N					4.4					
		118+07	41.8' Lt	US Route Sign	36	36	M1-4	S					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Multi-Directional Arrows]
				Multi-Directional Arrow (L/R)	30	21	M6-4P	S					4.4					
		117+52	23.7' Lt	Special Sign 4	186	48		W					62.0					Install New Sign on Signal Mast Arm
118+91	45.4' Rt	Same		Lane Ends (Right)	36	36	W4-2R	W									Luminaire Pole	Do Not Disturb
119+57	51.2' Lt	Same		Yield	18	18	R1-2	E									Perforated Tube	Do Not Disturb
119+60	35.4' Lt	Same		Bike Route Begin	24	18	D11-1	W			1	1					Perforated Tube	Reset Sign and Post
					12	6	M4-14	W										
119+95	42.0' Lt	Same		No Motor Vehicles	24	24	R5-3	W	1				4.0					Remove Existing Sign and Install a New Sign on Existing Post
120+19	62.8' Lt	Same		Bike Route End	24	18	D11-1	E					3.0				Perforated Tube	Do Not Disturb End Sign. Add Bike Route Sign above Existing End Sign on the Existing Post
					12	6	M4-6	E										
121+85	34.9' Lt	Same		Two Direction Large Arrow Sign	48	24	W1-7	S									Perforated Tube	Do Not Disturb
				Stop	30	30	R1-1	S										
121+91	42.7' Rt	191+92	37.4' Rt	Dakota Ave	30	9	D3-1	E/W									Perforated Tube	Reset Signs and Post [Dakota Ave above E Main St above Stop above 104]
				E Main St	30	9	D3-1	N/S										
				104			Special	E/W										
125+26	32.8' Lt	125+12	24.7' Lt	25 MPH	24	30	R2-125	E	1								Perforated Tube	Remove Sign and Replace with Solar Powered Radar Speed Sign (25 MPH)
125+28	37.2' Lt	Same		Yield	18	18	R1-2	W		1	1						Perforated Tube	Reset Sign and Post
		125+33	59.9' Lt	Diagonal Downward Arrow (L)	21	15	W16-7L	N					2.2	Y				Install New Signs Back to Back on New Post [Pedestrian above Diagonal Directional Arrow]
				Diagonal Downward Arrow (R)	21	15	W16-7R	S					2.2	Y	15.0	1		
				Pedestrian	30	30	W11-2	N					5.2	Y				
				Pedestrian	30	30	W11-2	S					5.2	Y				
125+32	54.1' Lt	125+36	52.8' Lt	Bike Route	24	18	D11-1	E		1	1						Perforated Tube	Remove Stop Sign and Install New Stop Sign on Existing Post. Reset Bike Route Sign [Bike Route above Stop]
				Stop	30	30	R1-1	N	1				5.2					
125+41	33.4' Rt	125+41	26.3' Rt	35 MPH	24	30	R2-135	W							13.5	1	Luminaire Pole	Reset Sign on New Post

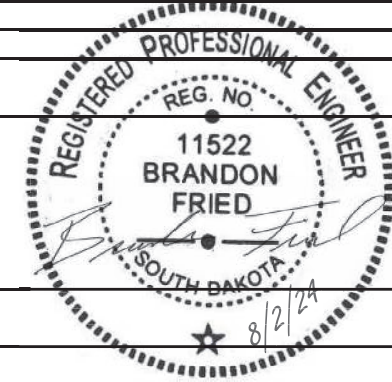
Subtotal: 3 6 6 7.0 185.5

43.5 3



Existing Location		Proposed Location		SIGN										POST		Remarks		
Station	Offset	Station	Offset	Description	Width (In)	Height (In)	Sign Code	Direction Sign Faces	Remove Traffic Sign (Each)	Remove Sign for Reset (Each)	Reset Sign (Each)	Type IV High Intensity (SqFt)	Type XI Super/Very High Intensity (SqFt)	Flourescent Yellow/ Green	2.0"X2.0" Perforated Tube Post 12 ga. (FT)		(N.A.B.I.) Square Tube Anchor Sleeve (Each)	Current Type of Post
PCN 04FC - US18																		
		125+78	59.8' Lt	Diagonal Downward Arrow (L)	21	15	W16-7L	S					2.2	Y				Install New Signs Back to Back on New Post [Pedestrian above Diagonal Directional Arrow]
				Diagonal Downward Arrow (R)	21	15	W16-7R	N					2.2	Y	15.0	1		
				Pedestrian	30	30	W11-2	S					5.2	Y				
				Pedestrian	30	30	W11-2	N					5.2	Y				
126+05	43.7' Rt	126+04	42.0' Rt	Stop	30	30	R1-1	S		1	1						Perforated Tube	Reset Sign and Post
126+15	53.1' Lt	Same		Yield	18	18	R1-2	E		1	1				12.5	1	Perforated Tube	Reset Sign on New Post
126+36	58.9' Lt	Same		Pine Ridge Building Products			Private	E									2x Wooden Posts	Do Not Distrub
127+83	56.1' Lt	Same		Think - Why Die?	36	36	Special	E									Perforated Tube	Do Not Disturb
128+67	50.2' Rt	Same		EAST US Route Sign Oyate Trail Sign	24 24 24	12 24 30	M3-2 M1-4 Special	W W W		1	1						Perforated Tube	Reset Signs and Post. [East above US 18 above Oyate Trail]
129+15	40.6' Lt	Same		Yield	18	18	R1-2	W		1	1				12.5	1	Perforated Tube	Reset Sign on New Post
129+55	58.1' Lt	Same		Yield	18	18	R1-2	W	1				1.0				Perforated Tube	Remove Existing Sign and Install a New Sign on Existing Post
131+74	34.9' Rt	Same		Hospital Right Arrow	30 30	30 21	D9-2 M6-1	W W		1	1				13.5	1	Perforated Tube	Reset Signs on New Post. [Hospital above Right Arrow]
132+78	38.2' Lt	132+76	31.5' Rt	Yield	18	18	R1-2	W					1.0		12.5	1	Perforated Tube	Install New Sign on New Post
		132+80	21.9' Lt	Special Sign 7	162	48		E					54.0					Install New Sign on Signal Mast Arm
132+89	55.1' Lt	133+05	45.5' Lt	Stop	30	30	R1-1	N	1				5.2				Perforated Tube	Remove Existing Stop Sign. Remove existing posts at 132+89 and 133+42. Install a New Stop Sign and Reset Street Name Signs on a New Post [Old Sundance Rd above E Main St above Stop]
133+42	53.0' Lt			Old Sundance Rd	36	9	D3-1	E/S		1	1							
				E Main St	30	9	D3-1	N/S										
		133+18	50.0' Rt	US Route Sign	36	36	M1-4	N					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Multi-Directional Arrows]
				Multi-Directional Arrow (L/R)	30	21	M6-4P	N					4.4					
		133+46	45.0' Lt	US Route Sign	36	36	M1-4	S					9.0					Install New Signs on Signal Mast Arm [US 18 Highway Sign above Multi-Directional Arrows]
				Multi-Directional Arrow (L/R)	30	21	M6-4P	S					4.4					
133+50	51.7' Lt	133+57	45.5' Lt	Yield	18	18	R1-2	E		1	1				12.5	1	Perforated Tube	Reset Sign on New Post
133+76	83.6' Rt	Same		Pine Ridge Hospital Sign			Private	E/W									2x Steel Posts	Do Not Disturb
133+83	95.4' Rt	Same		Warning Call Before You Dig			Special	N									T-Post	Reset Sign and Post
		133+84	21.9' R	Special Sign 6	162	48		W					54.0					Install New Sign on Signal Mast Arm
134+52	50.3' Rt	133+61	52.7' Rt	Stop	30	30	R1-1	S									Perforated Tube	Reset Signs and Post [Indian Health Rd above E Main St above Stop]
				Indian Health Rd	42	9	D3-1	E/W		1	1							
				US Highway 18	36	9	D3-1	N/S										
134+63	124.9' Rt	Same		Buckle Up It's Our Law			Private	NW									2x Wooden Posts	Do Not Disturb
215+81	81.3' Rt	216+03	81.3' Rt	Public Book Barn			Private	S		1	1						Wooden Post	Reset Book Barn and Post
216+08	44.1' Rt	216+09	45.6' Rt	Do Not Enter	36	36	R5-1	N									Perforated Tube	Reset Signs and Post
				Yield	36	36	R1-2	S		1	1							
216+93	38.2' Lt	Same		EAST US Route Sign Left Turn Arrow SOUTH SD Highway Sign Straight Arrow	24 24 21 24 24 21	12 24 15 12 24 15	M3-2 M1-4 M5-1 M3-3 M1-4 M6-3	N N N N N N									Power Pole	Do Not Disturb
218+29	37.8' Lt	Same		Hospital Left Arrow	30 21	30 15	D9-2 M6-1	N N									Power Pole	Do Not Disturb
218+45	41.9' Lt	Same		Stop Exit Only	30 18	30 12	R1-1 Special	W E									Perforated Tube	Do Not Disturb

Subtotal: 2 10 10 0.0 156.7 92.9 7



Existing Location		Proposed Location		SIGN										POST			Remarks	
Station	Offset	Station	Offset	Description	Width (In)	Height (In)	Sign Code	Direction Sign Faces	Remove Traffic Sign (Each)	Remove Sign for Reset (Each)	Reset Sign (Each)	Type IV High Intensity (SqFt)	Type XI Super/Very High Intensity (SqFt)	Flourescent Yellow/ Green	2.0"X2.0" Perforated Tube Post 12 ga. (FT)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)		Current Type of Post
PCN 04FC - US18																		
218+69	41.6' Lt	Same		Exit Only/Do Not Enter	18	24	Special	N	1			3.0					Perforated Tube	Remove Existing Sign and Install a New Sign on Existing Post
				Exit Only/Do Not Enter	18	24	Special	S	1			3.0					Perforated Tube	Remove Existing Sign and Install a New Sign on Existing Post
219+10	35.6' Lt	Same		Up Rushville NE / Left Martin	86	30	D1-2	N		1	1						2x Perforated Tube	Reset Sign and Post
219+46	41.2' Lt	219+41	42.5' Lt	Stop	30	30	R1-1	W	1				5.2		13.5	1	Power Pole	Install New Sign on New Post
219+98	34.7' Lt	219+98	33.1' Lt	Eagle Feather St	42	9	D3-1	N/S		1	1						Perforated Tube	Reset Sign and Post
220+29	34.2' Rt	Same		Buffalo Berry St NE	42	9	D3-1	N/S									Perforated Tube	Do Not Disturb
220+37	37.3' Lt	220+37	35.6' Lt	EAST	24	12	M3-2	N		1	1						Perforated Tube	Remove US Route Sign and install new US Route Sign on Existing Post. Reset East and Left Turn Arrom on Existing Post. [East above US Route Sign above Left Turn Arrow]
				US Route Sign	24	24	M1-4	N	1				4.0					
				Left Turn Arrow	21	15	M5-1	N									Perforated Tube	Do Not Disturb
220+87	46.5' Rt	Same		Stop	30	30	R1-1	E									Perforated Tube	Do Not Disturb
221+26	37.8' Lt	221+26	35.6' Lt	JCT	21	15	M2-1	N		1	1						Perforated Tube	Reset Signs and Post [JCT above SD 407]
				SD Highway Sign	24	24	M1-4	N										
226+04	44.9' Rt	Same		Stop	30	30	R1-1	E									Perforated Tube	Do Not Disturb
226+13	75.6' Rt	Same		Whitetail Deer Rd	42	9	D3-1	N/S									Perforated Tube	Do Not Disturb
				Special Sign	36	36	D3-1	S									Perforated Tube	Do Not Disturb

Subtotal:	4	4	4	6.0	9.2
Total	12	26	26	13.0	552.4

13.5	1
235.6	17



Existing Location		Proposed Location		SIGN										POST		Remarks	
Station	Offset	Station	Offset	Description	Width (In)	Height (In)	Sign Code	Direction Sign Faces	Remove Traffic Sign (Each)	Remove Sign for Reset Sign (Each)	Reset Sign (Each)	Type IV High Intensity (SqFt)	Type XI Super/Very High Intensity (SqFt)	2.0"X2.0" Perforated Tube Post 12 ga. (FT)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)		Current Type of Post
201+81	52.4' Lt	Same		Stop	30	30	R1-1	West								Perforated Tube	Do Not Disturb
202+25	38.0' Rt	Same		Stop	30	30	R1-1	East								Perforated Tube	Do Not Disturb
202+31	46.5' Lt	202+22	46.5' Lt	Cherry Hill Ct	36	9	D3-1	N/S		1	1					Perforated Tube	Reset Sign and Post
202+80	26.1' Rt			Missing Sign, post only					1							Perforated Tube	Remove Post
204+79	25.1' Rt	204+79	26.4' Rt	JCT US Route Sign	21	15	M2-1	S			1	1				Perforated Tube	Reset Signs and Post [JCT above US 18]
207+46	38.6' Lt	Same		40 MPH	24	30	R2-140	N								Perforated Tube	Do Not Disturb
207+46	30.4' Rt	Same		35 MPH	24	30	R2-135	S								Perforated Tube	Do Not Disturb
208+33	46.4' Lt	Same		Rodeo Rd	30	9	D3-1	N/S								Perforated Tube	Do Not Disturb
209+25	41.5' Lt	Same		White Clay 2 / Rushville Nebr. 24	75	30	D2-2	N								2x Perforated Tube	Do Not Disturb
209+28	46.9' Lt	Same		Stop	30	30	R1-1	West								Perforated Tube	Do Not Disturb
209+84	29.5' Rt	Same		25 MPH	24	30	R2-125	S	1							Perforated Tube	Remove Sign and Replace with Solar Powered Radar Speed Sign (25 MPH)
209+85	39.4' Lt	Same		Pine St 35 MPH	30	9	D3-1	N/S								Perforated Tube	Do Not Disturb
212+01	34.1' Rt	Same		Hot Springs (Up) / Martin (Right)	72	30	D1-2	S								2x Perforated Tube	Do Not Disturb
212+11	37.9' Rt	Same		Think - Why Die?	36	36	Special	S								Perforated Tube	Do Not Disturb
212+29	35.8' Lt	212+27	29.1' Lt	Oglala St	30	9	D3-1	N/S		1	1					Perforated Tube	Reset Sign and Post
212+33	38.1' Lt			Subway Parking Right Arrow			Private	N/S	1							2x Wooden Posts	Remove Sign and Posts
212+41	43.5' Lt	212+42	44.9' Lt	Stop	30	30	R1-1	West			1	1				Perforated Tube	Reset Sign and Post
213+18	37.3' Lt	Same		SOUTH SD Highway Sign	24	12	M3-3	N								Power Pole	Do Not Disturb
214+33	33.6' Rt	214+33	37.5' Rt	US Route Sign Straight/Right Turn Arrow	24	24	M1-4	S			1	1				Perforated Tube	Reset Signs and Post [US18 above Right Turn]
214+33	36.0' Lt	214+33	39.8' Rt	END SD Highway Sign	24	12	M4-6	S			1	1				Perforated Tube	Reset Signs and Post [End above SD407]
		214+76	L	Special Sign 3	156	72		N					78.0				Install New Sign on Signal Mast Arm
214+80	57.1' Lt	Same		Conoco Big Bats Sign			Private	NE								2x Steel Post	Do Not Disturb
Total:									3	6	6	0.0	78.0	0.0	0		



PERMANENT SIGNING LAYOUT

US HWY 18 & SD HWY 407



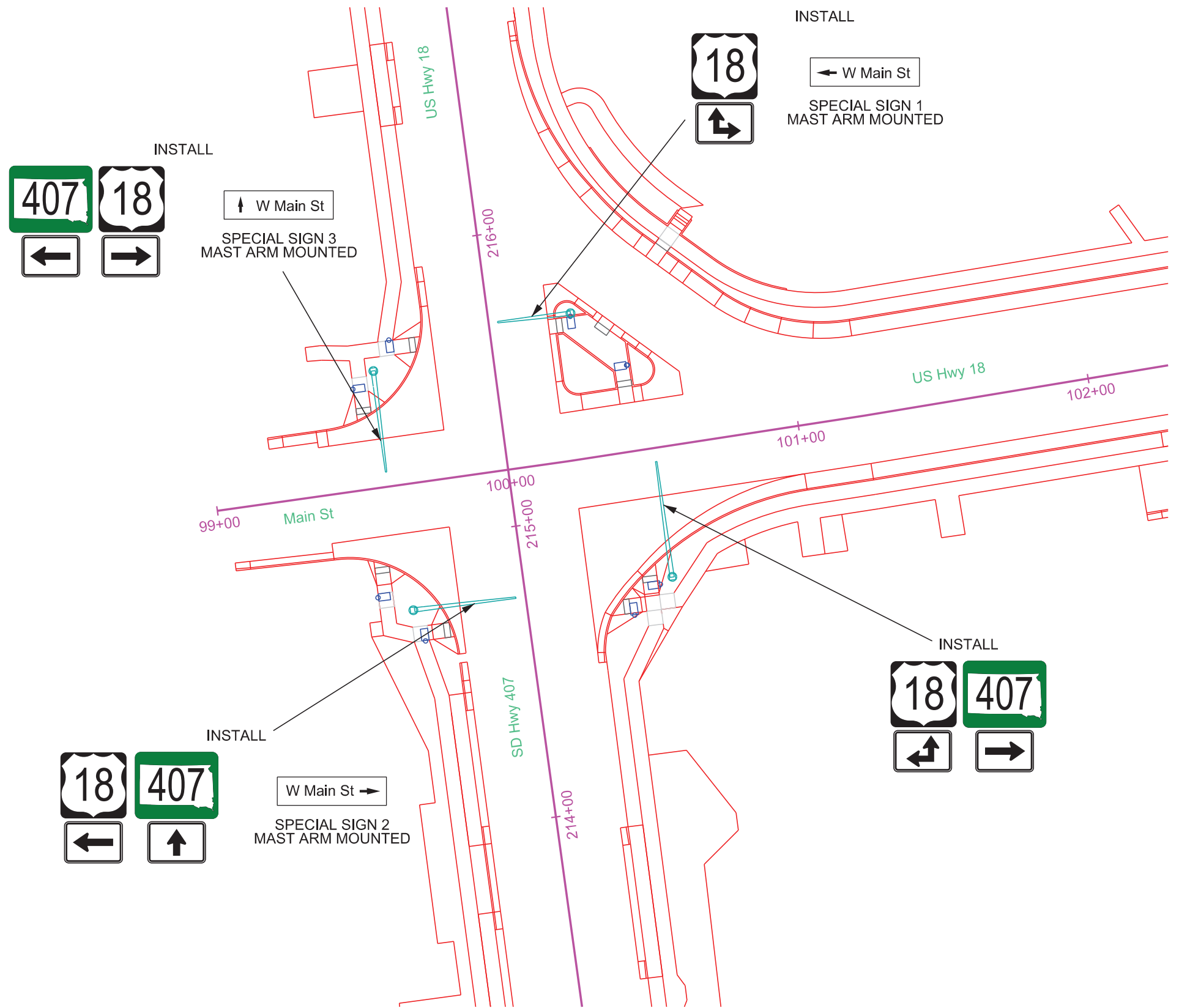
STATE OF SOUTH DAKOTA

PROJECT
NH-CR-EM 0018(195)103
P 0407(05)01

SHEET	TOTAL SHEETS
S9	S21

Plotting Date: 7/31/2024

Rev. 8/2/2024 BAF



Plot Scale - 1:40

brandonfried

Plotted From -

File - ...Sections\SectionS1100sign.dgn



PERMANENT SIGNING LAYOUT

US HWY 18 & EASTRIDGE HOUSING RD



STATE OF
SOUTH
DAKOTA

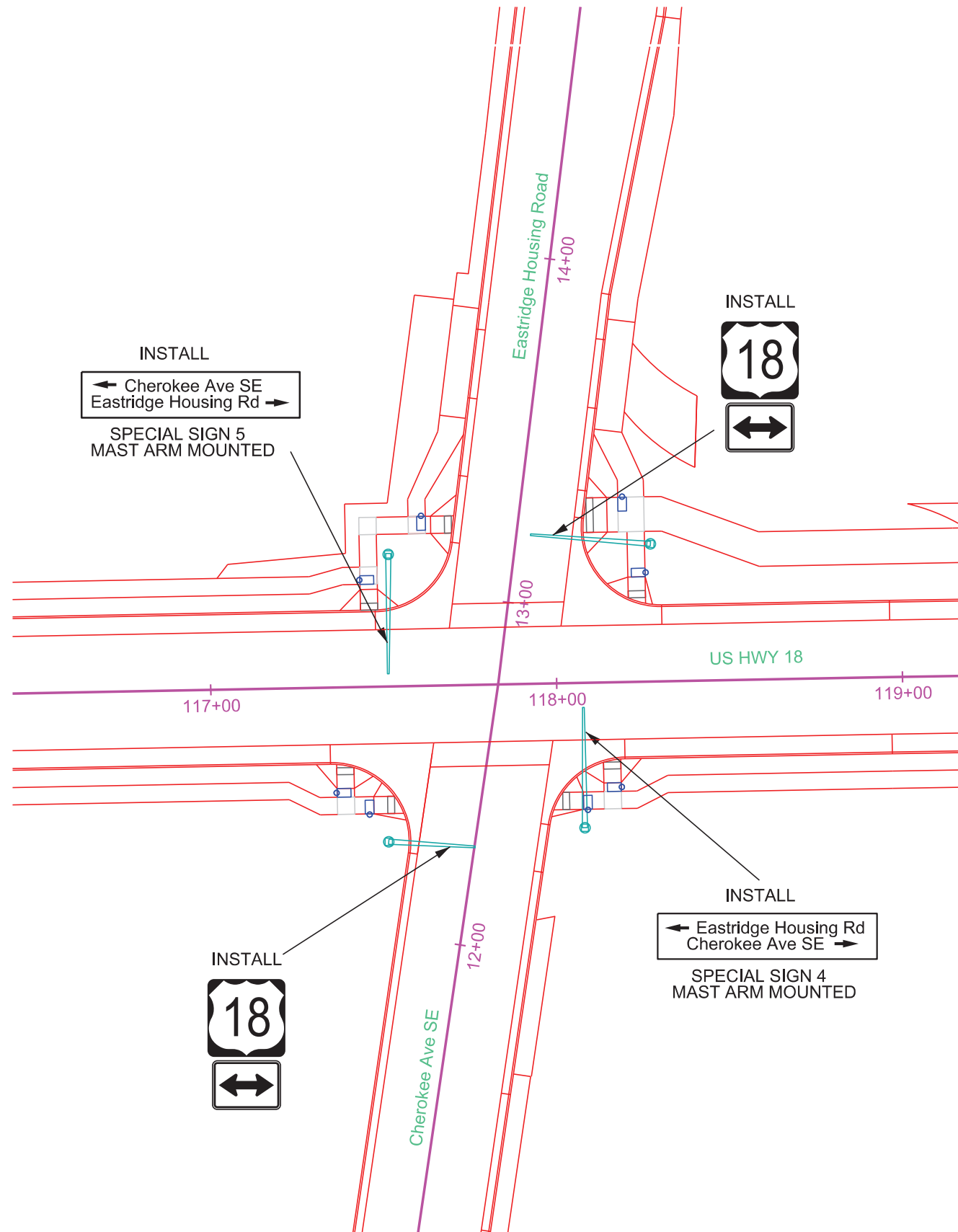
PROJECT
NH-CR-EM 0018(195)103
P 0407(05)01

SHEET	TOTAL SHEETS
S10	S21

Plotting Date: 7/31/2024

7/31/2024

Rev. 8/2/2024 BAF



Plot Scale - 1:40

brandonfried


Plotted From -

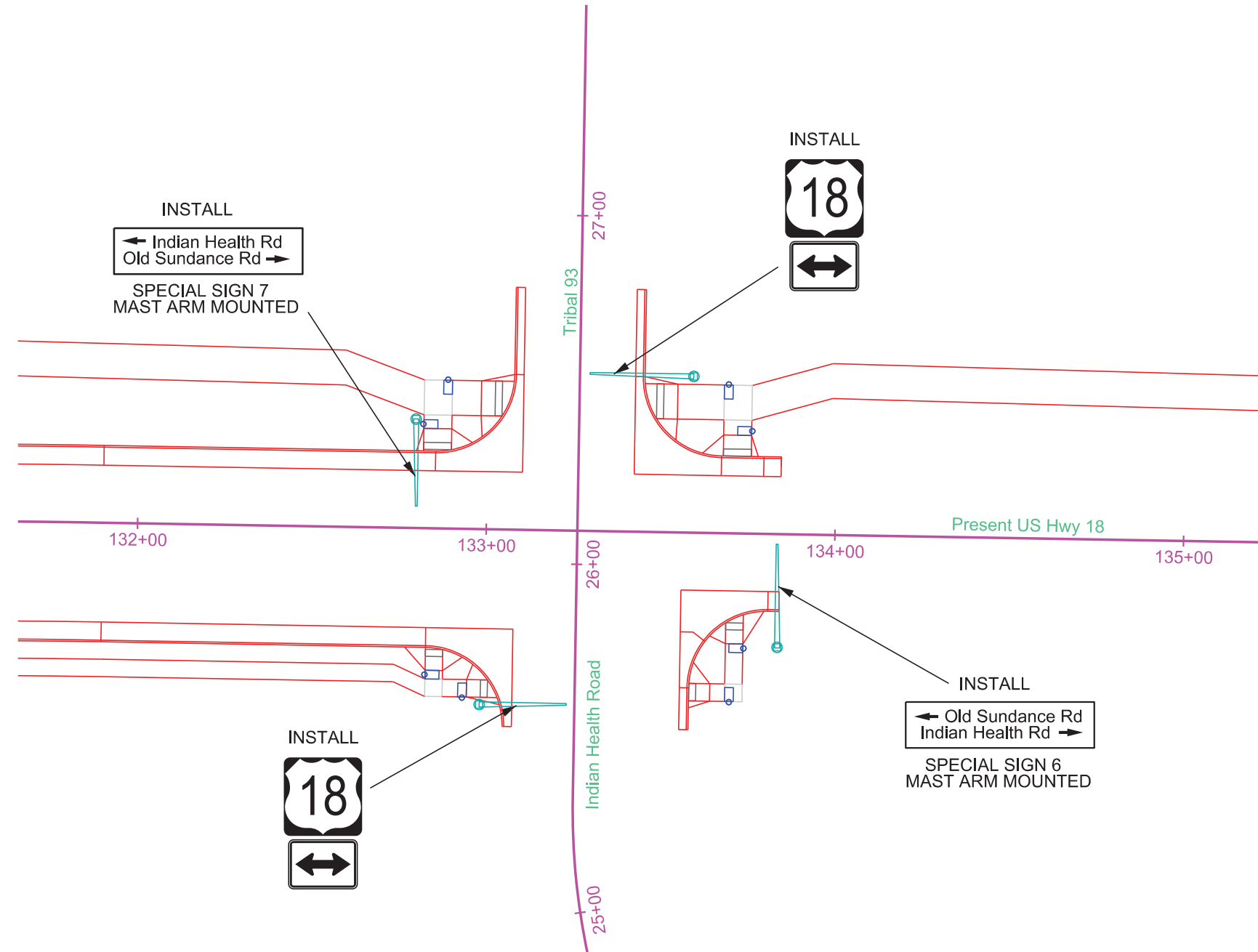
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PERMANENT SIGNING LAYOUT

US HWY 18 & INDIAN HEALTH RD

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR-EM 0018(195)103 P 0407(05)01	S11	S21
Plotting Date: 7/31/2024		Rev. 8/2/2024 BAF	



Plot Scale - 1:40

Plotted From - brandonfried

File - ...Sections\SectionS1133sign.dgn

TYPICAL SIGN DETAIL



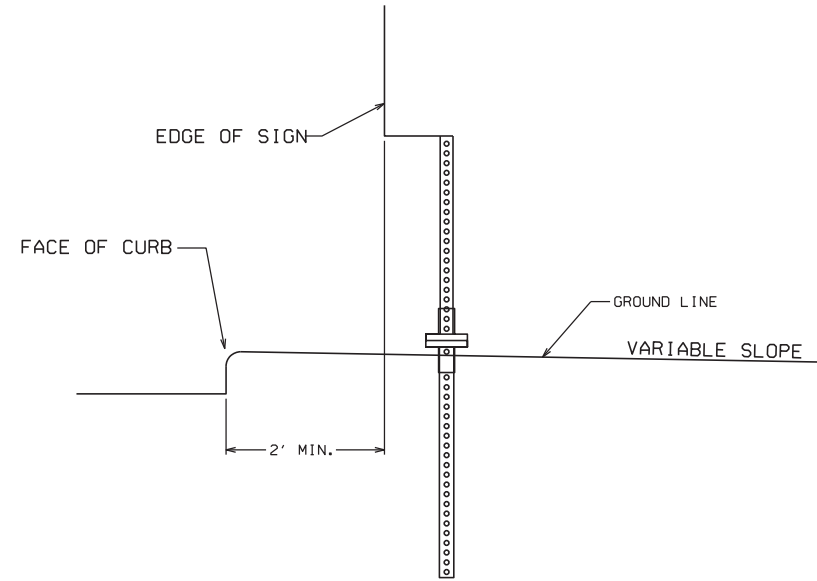
STATE OF SOUTH DAKOTA

PROJECT
NH-CR-EM 0018(195)103
P 0407(05)01

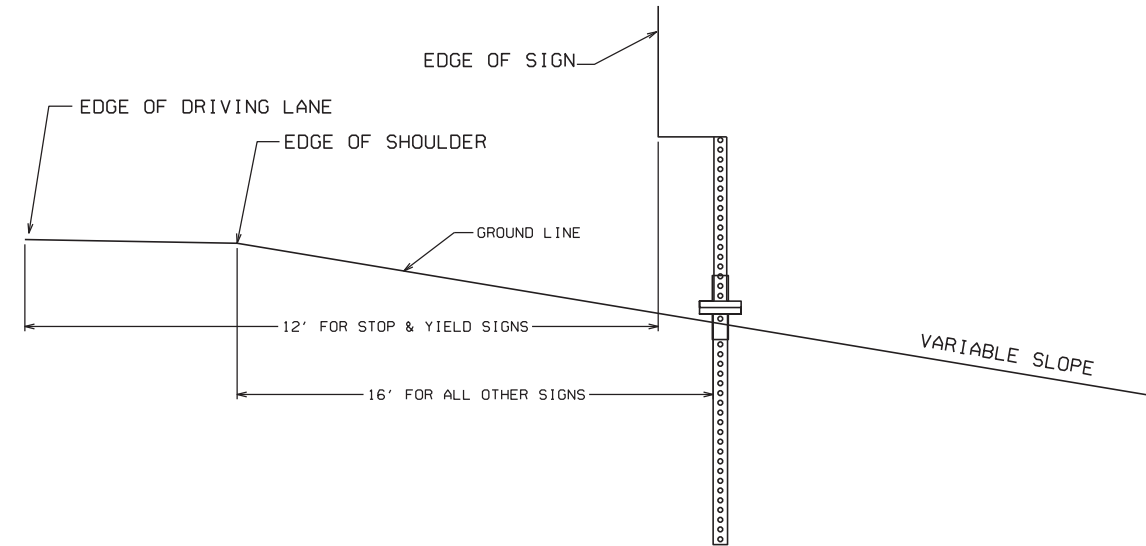
SHEET	TOTAL SHEETS
S15	S21

Plotting Date: 7/31/2024

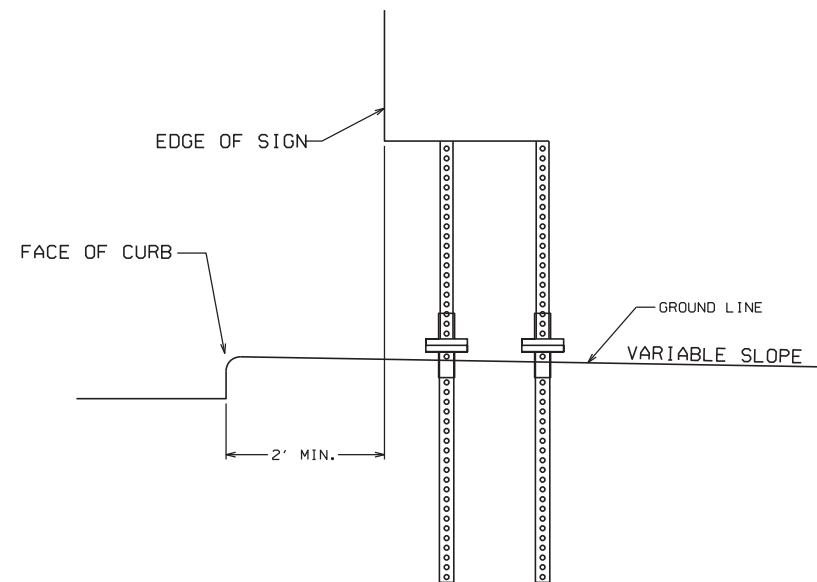
Rev. 8/2/2024 BAF



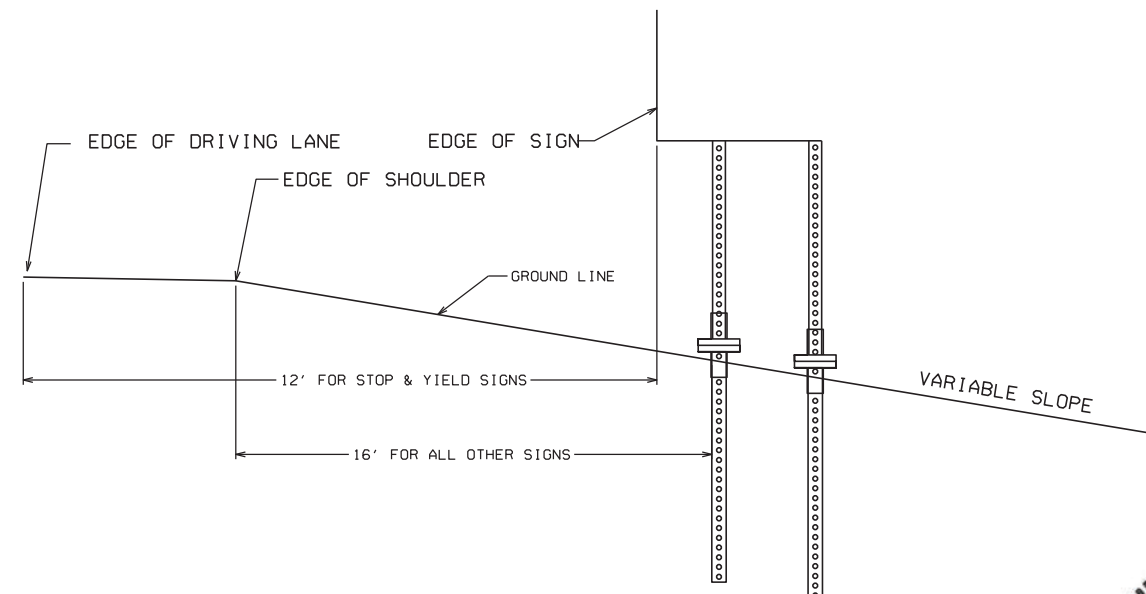
URBAN LOCATION WITH 1 POST
(DRAWING SHOWN FROM FACE OF SIGN)



RURAL LOCATION WITH 1 POST
(DRAWING SHOWN FROM FACE OF SIGN)



URBAN LOCATION WITH 2 POSTS
(DRAWING SHOWN FROM FACE OF SIGN)



RURAL LOCATION WITH 2 POSTS
(DRAWING SHOWN FROM FACE OF SIGN)




Plot Scale - 1:200

brandonfried

Plotted From -

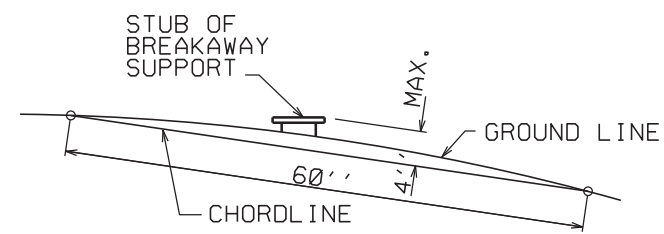
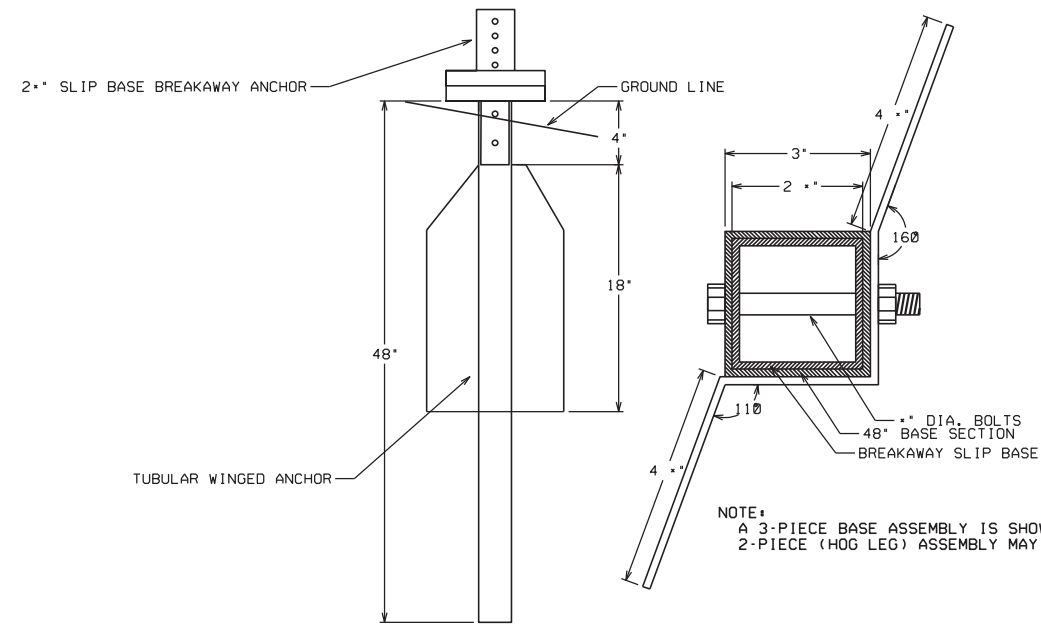
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TYPICAL SIGN DETAIL

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR-EM 0018(195)103 P 0407(05)01	S16	S21
Plotting Date: 7/31/2024		Rev. 8/2/2024 BAF	

Plot Scale - 1:200

SIGN BASE DETAILS FOR A 2" SIGN POST




Plotted From - brandonfried

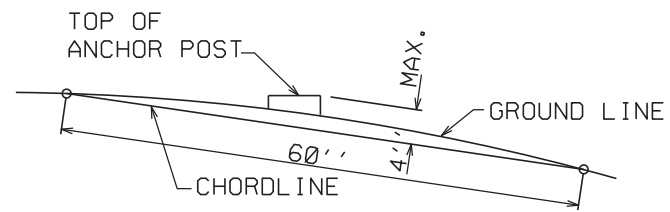
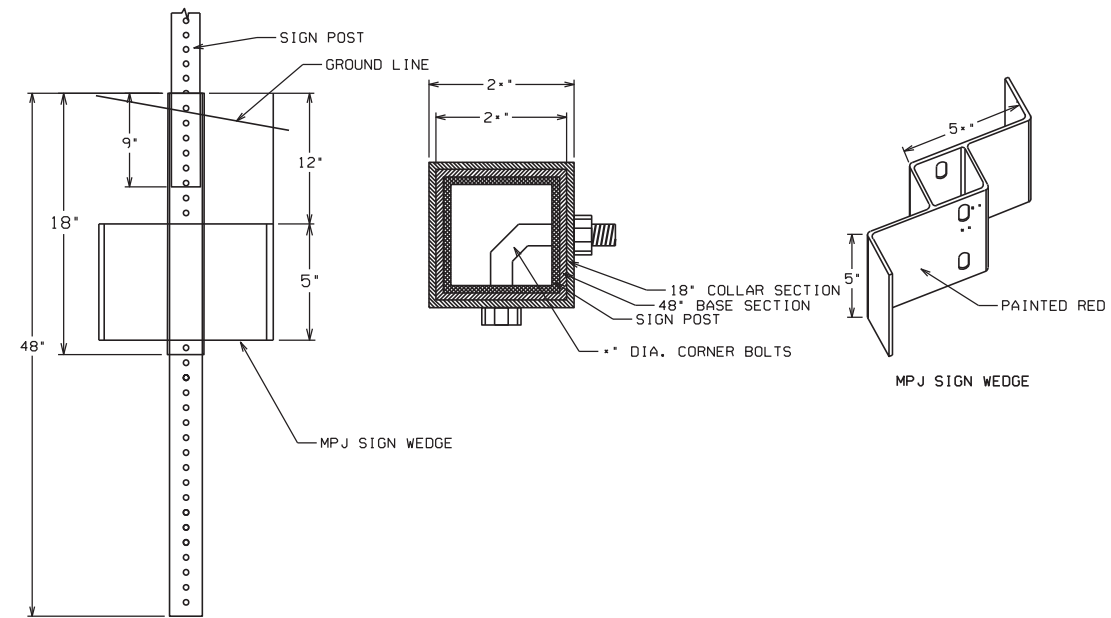


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TYPICAL SIGN DETAIL

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR-EM 0018(195)103 P 0407(05)01	S17	S21
Plotting Date: 7/31/2024		Rev. 8/2/2024 BAF	

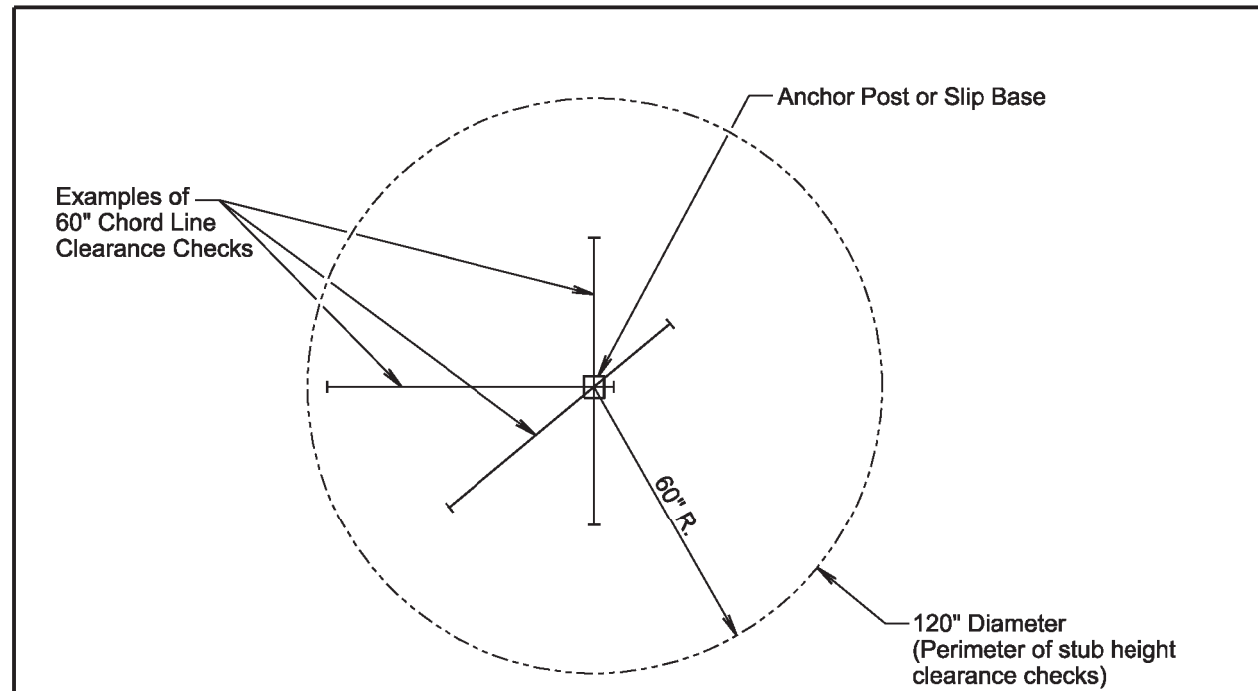
SIGN BASE DETAILS FOR A 2" SIGN POST



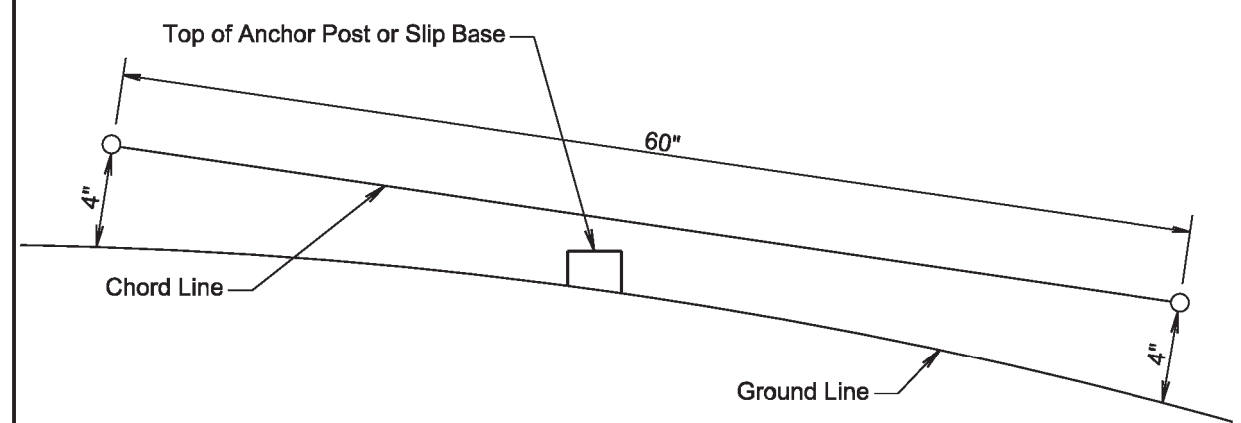
Plot Scale - 1:200

Plotted From - brandonfried

File - ... \Sections\SectionS\DetailsS.dgn



PLAN VIEW
(Examples of stub height clearance checks)



ELEVATION VIEW

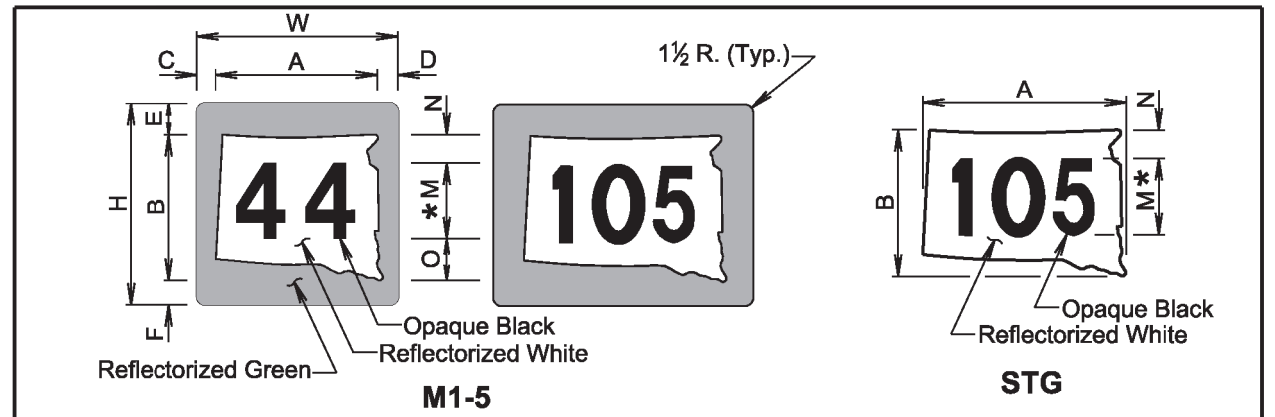
GENERAL NOTES:

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.

January 22, 2021

Published Date: 2025	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 632.18
			Sheet 1 of 1



M1-5

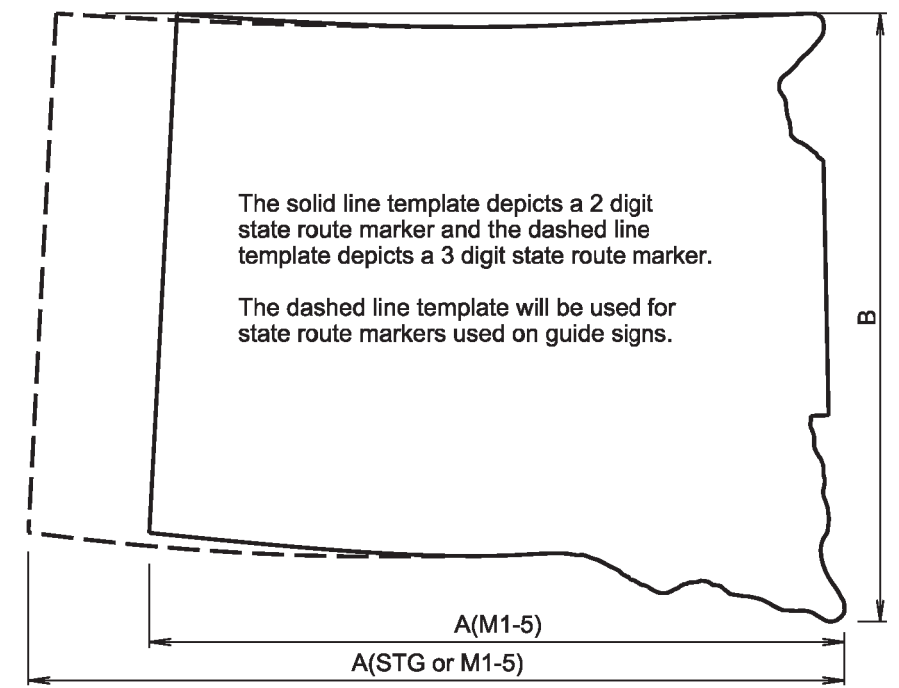
SIGN CODE	WxH	A	B	C	D	E	F	M*	N	O
M1-5	24x24	20 1/2	18	2	1 1/2	3 1/2	2 1/2	12D	2	4
M1-5 **	30x24	24	18	2 1/4	1 3/4	3 1/2	2 1/2	12D	2	4
M1-5	36x36	25 5/8	22 1/2	2 1/2	1 7/8	4 3/8	3 1/8	15D	2 1/2	5
M1-5	36x36	30 3/4	27	3	2 1/4	5 1/4	3 3/4	18D	3	6

STG

SIGN CODE	AxB	M*	N
STG-24	24x18	10D	4
STG-32	32x24	12D	4 3/4
STG-48	48x36	18D	7
STG-64	64x48	24D	9 1/2

* In the few cases where there is not enough space for the numerals, the standard D series font may be replaced with C series font if approved by the Engineer.

** 3 Digits



TEMPLATE FOR STATE ROUTE MARKER

GENERAL NOTES:

The unit for all dimensions shown is inches.

Numerals will be D series font for all state route markers except as noted above.

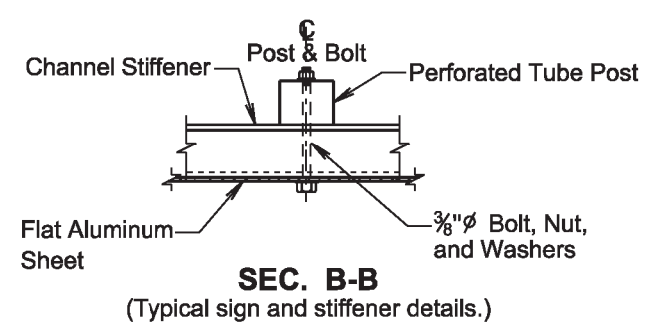
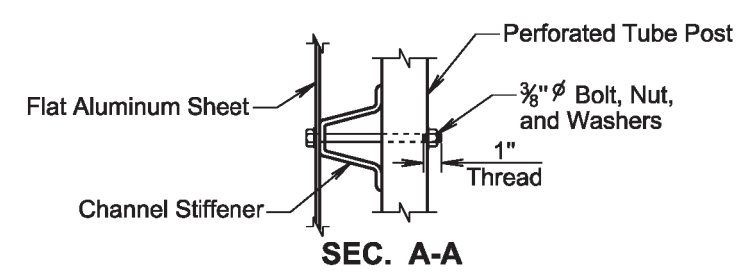
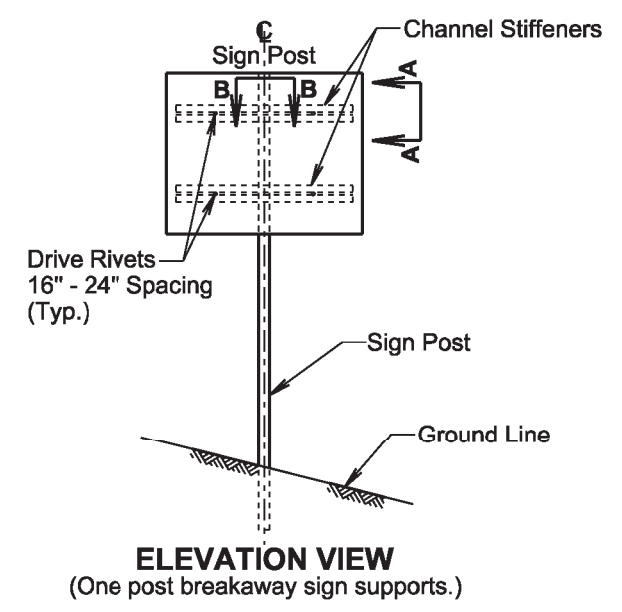
December 23, 2019

Published Date: 2025	S D D O T	STATE ROUTE MARKERS	PLATE NUMBER 632.20
			Sheet 1 of 1

Plot Scale - 1:200

Plotted From - brandonified

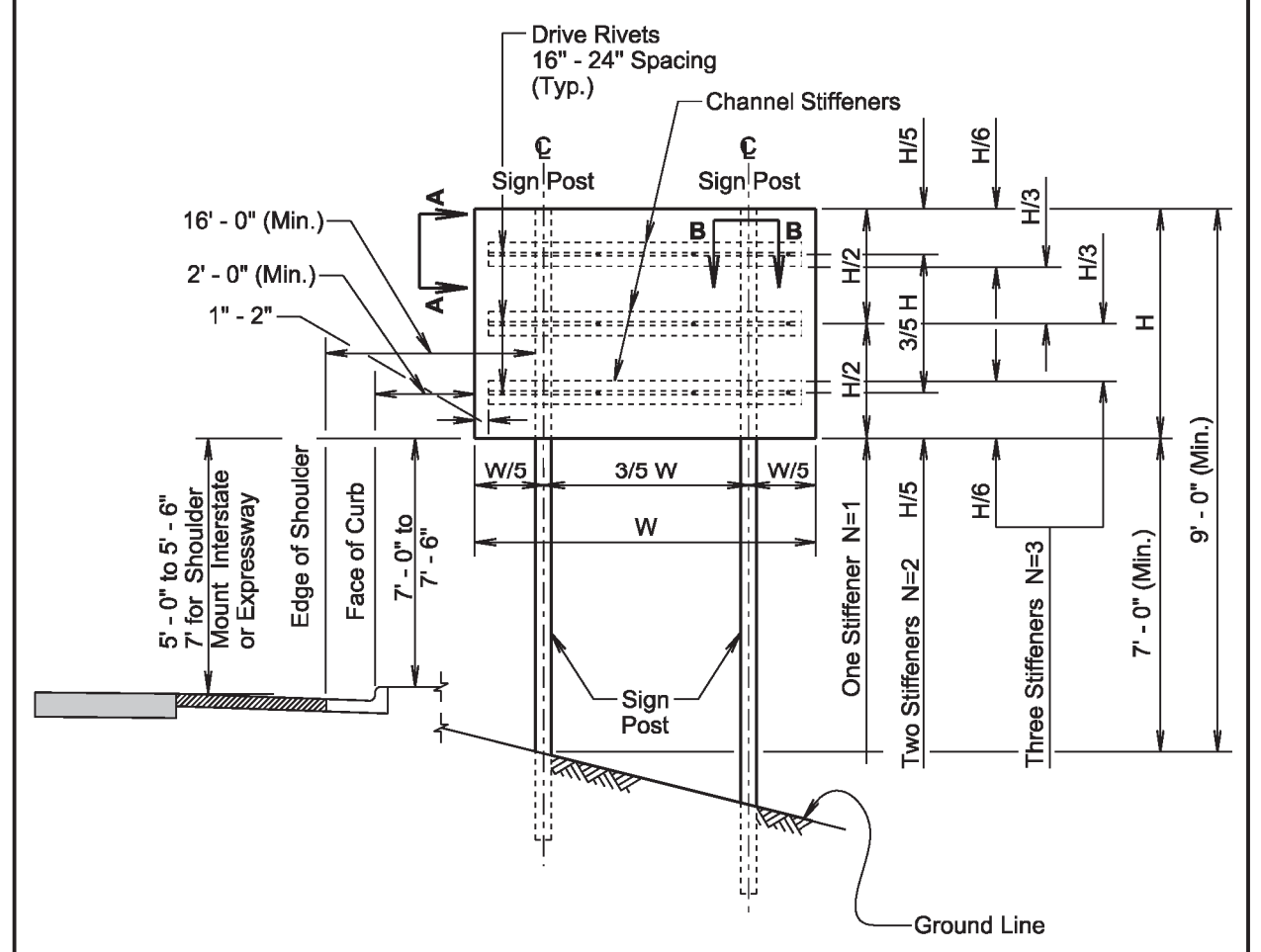
File - ... \Section\StandardPlates_S.dgn



∅ A plastic washer, as recommended by the sheeting manufacturer, will be installed between the sign face and the metal washer shown.

November 19, 2020

Published Date: 2025	S D D O T	SIGN STIFFENER DETAILS	PLATE NUMBER 632.60
			Sheet 1 of 2



GENERAL NOTES:

The number of stiffeners used (N) will be as follows:
 If $H \leq 2' - 0''$ then $N = 1$
 if $2' - 0'' < H \leq 8' - 0''$ then $N = 2$
 if $8' - 0'' < H \leq 15' - 0''$ then $N = 3$
 where H is the vertical dimension of the sign.

A minimum of two bolts will be required to fasten the sign to each post.

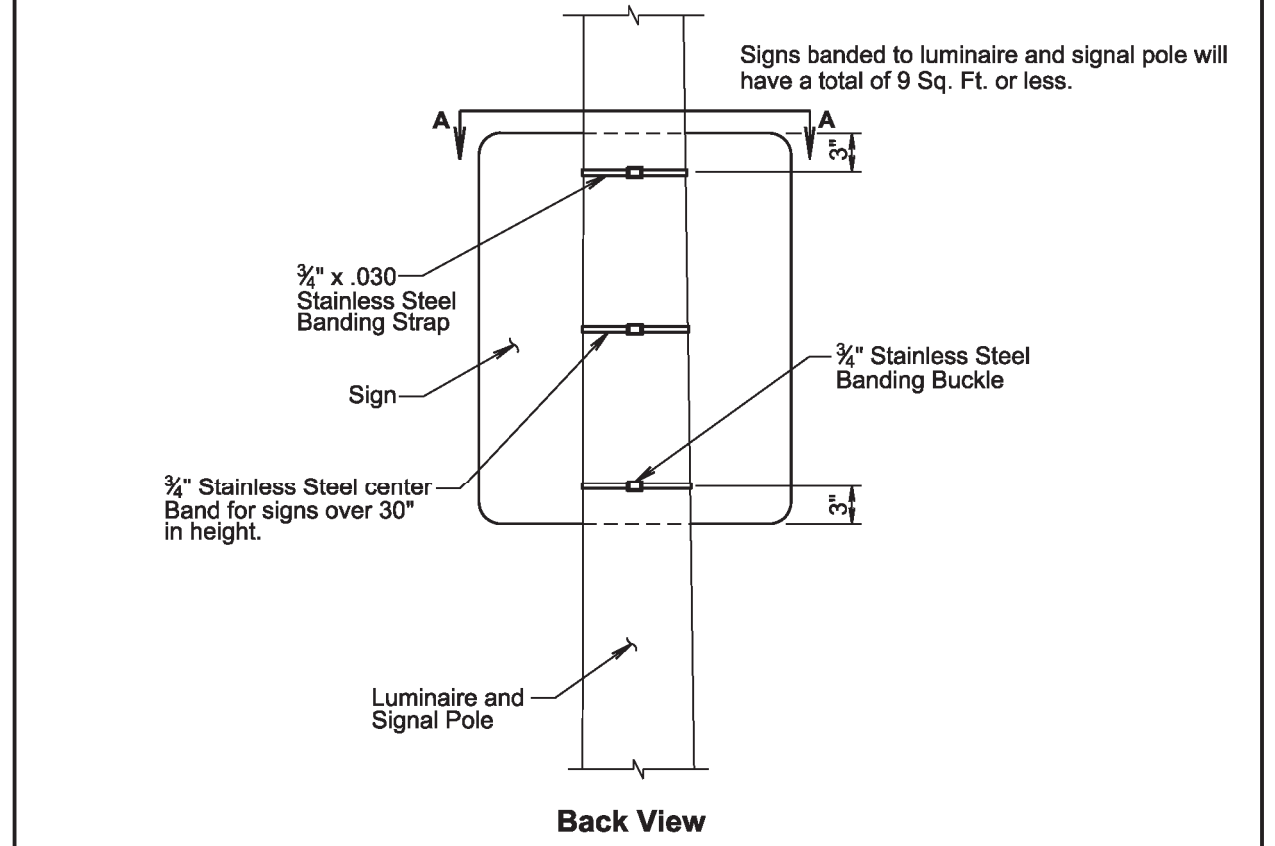
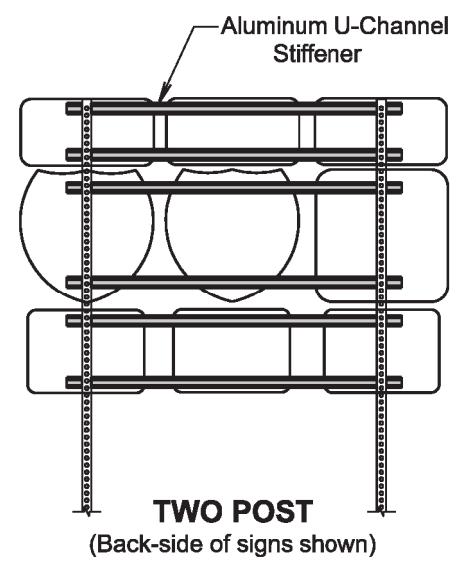
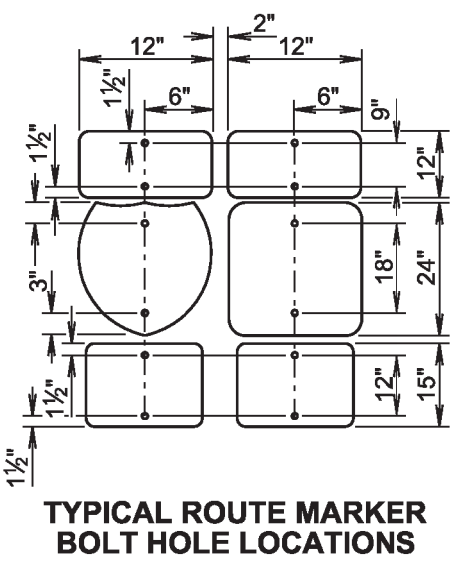
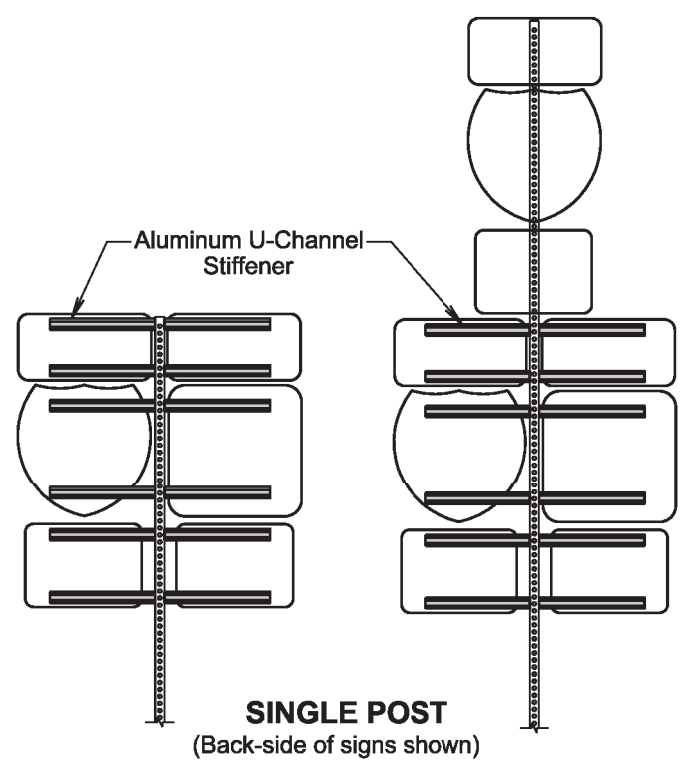
November 19, 2020

Published Date: 2025	S D D O T	SIGN STIFFENER DETAILS	PLATE NUMBER 632.60
			Sheet 2 of 2

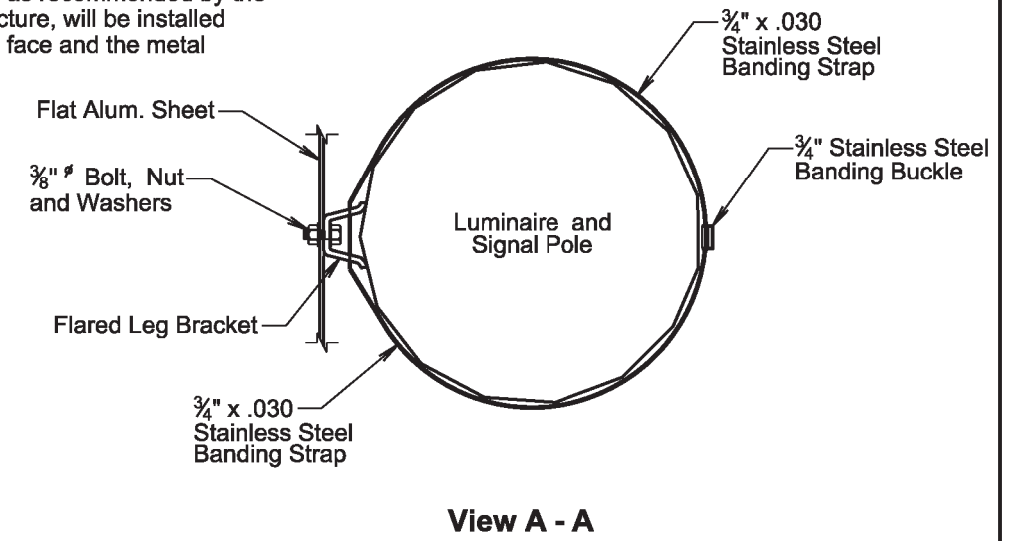
Plot Scale - 1:200

Plotted From - brandonified

File - ... \Section\StandardPlates_S.dgn



∅ A plastic washer, as recommended by the sheeting manufacture, will be installed between the sign face and the metal washer shown.



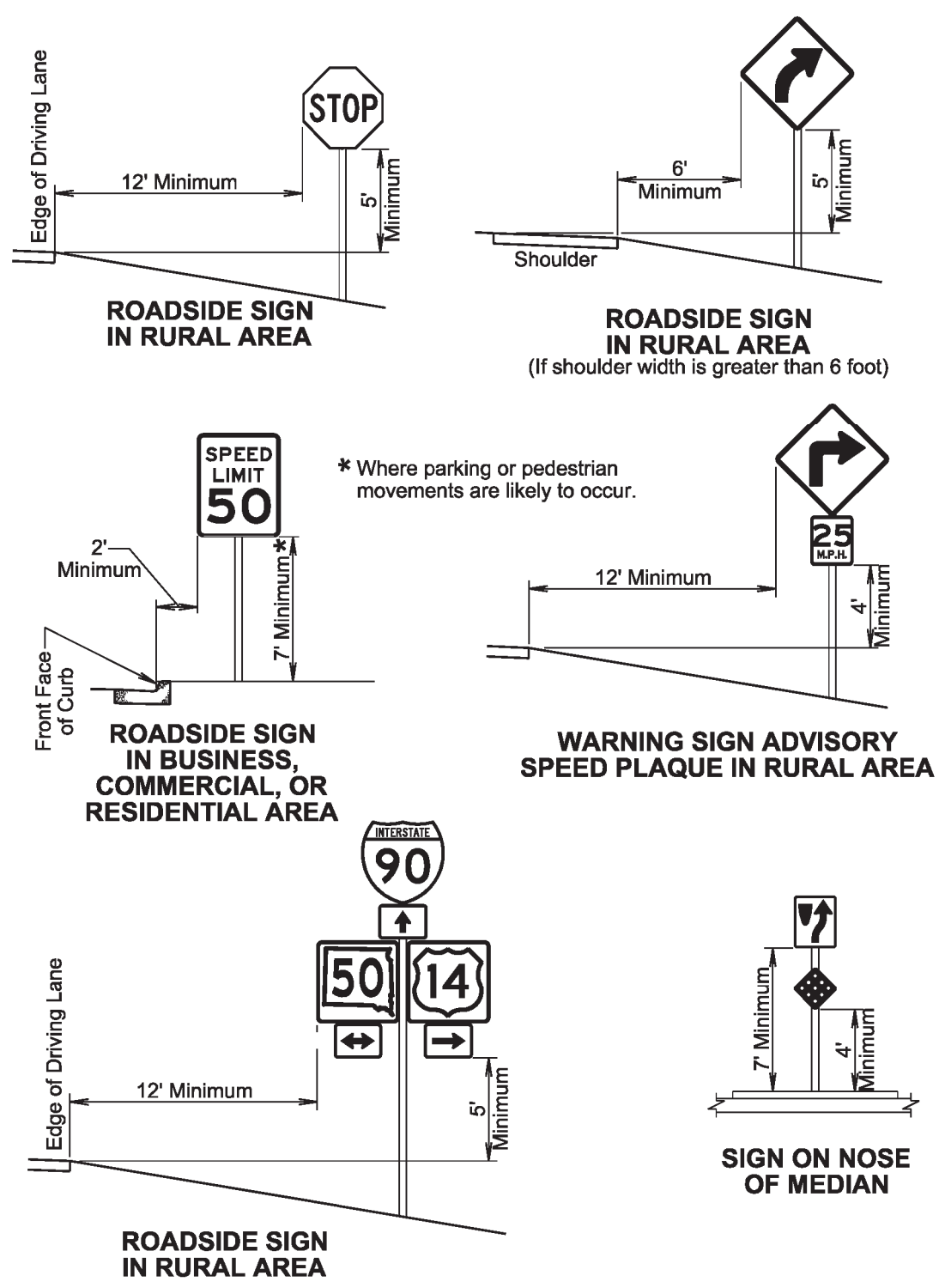
Published Date: 2025	S D D O T	MULTIPLE ROUTE MARKER SIGN STIFFENER INSTALLATION DETAILS	November 19, 2020
			PLATE NUMBER 632.62 Sheet 1 of 1

Published Date: 2025	S D D O T	BANDING SIGN TO LUMINAIRE AND SIGNAL POLE	November 19, 2020
			PLATE NUMBER 632.80 Sheet 1 of 1

Plotted From: ... \Section\StandardPlates_S.dgn
 1:200
 brandonified

File: ... \Section\StandardPlates_S.dgn

Plotted From - brandonified 1:200 File - ... \Section\StandardPlates_S.dgn



November 19, 2020

Published Date: 2025	S D D O T	OFFSETS FOR SIGN INSTALLATION	PLATE NUMBER 632.90
			Sheet 1 of 1