

	61475 05	PROJECT	SHEET	TOTAL	٦
	STATE UF SOUTH		NO.	SHEETS	-
		P-PH 0028(36)355	S1	S22	-
					-
	Revised &	3/13/2024 AT			
	INDEX	OF SHEETS			
	S1 S2-S3 S4 S5-S11 S12 S13-S14 S15 S16-S22	General Layout with Index Estimate of Quantities and N Delineation Permanent Sign Installation Sign Summary Special Sign Design Sign Installation Detail Standard Plates	lotes		PLOT NAME - 2
R 49	W				
22	4/6 AVE 562+/19.79	193 ST 23 24 194 ST 28 25 26 25 195 ST			FILE \SECTION S\OA REVIEW\TITLES.DGN

SECTION S – ESTIMATE OF QUANTITIES – PCN 04HM

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	91	Each
110E0135	Remove Delineator	87	Each
110E5020	Salvage Traffic Sign	28	Each
110E7150	Remove Sign for Reset	30	Each
632E1320	2.0"x2.0" Perforated Tube Post	706.5	Ft
632E1340	2.5"x2.5" Perforated Tube Post	115.0	Ft
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	73	Each
632E2028	4" Tubular White Delineator with 1.12 Lb/Ft Post	6	Each
632E2510	Type 2 Object Marker Back to Back	155	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	582.3	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	104.4	SqFt
632E3500	Reset Sign	29	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.

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.

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".

SALVAGE TRAFFIC SIGN

All Road Narrows, Shoulder Drop Off and No Passing Zone signs listed for salvage will have the existing posts, bases, and signs dismantled and delivered to the Clear Lake Maintenance Yard. The Contractor will notify the Engineer two days prior to time of delivery to the Maintenance Yard so correct placement for storage and inventory of materials can be made upon receipt. All bolts, nuts, and washers will be placed in individual 5-gallon pails. All signs listed for salvage will be handled with care so that the signs are not damaged during removal or transport. The Contractor will replace and pay for any salvaged signs damaged in their care.

All costs for labor and equipment necessary to remove, dismantle, and deliver signs to the Clear Lake Maintenance Yard will be incidental to the contract unit price for "Remove Traffic Sign".

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.

DIGITALLY PRINTED SIGNS

specifications.

PROTECTIVE OVERLAY FILM

Table 1.

Table 1: Retroreflective Film Minimum Durability Requirements

ASTM D4956	Full Sign	Sheeting
Туре	Replacement Term	Replacement Term
	(years)	(years)
1	0	7
Ш	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.

30 feet or greater.

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Any 911 Emergency Number signs within the project work limits will not be stockpiled but temporarily repositioned at a location outside the work limits but within the immediate proximity of the existing location. To complete the project sign work, the 911 Emergency Number signs will be permanently installed at their original locations, or as near as practicable where entrances have been reconfigured by the project. The existing supports will be reused. Cost for removing, temporarily repositioning, and permanently resetting 911 Emergency Number signs will be included in the contract unit price per each for "Remove Sign for Reset" and "Reset Sign".

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

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 overlaminate 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

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

DIGITALLY PRINTED SIGNS (CONTINUED)

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 sian.
 - 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.



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.

SQUARE TUBE POST SLEEVE

All 2.5" x 2.5", 10 Gauge perforated tube post will be sleeved with a 2-3/16" x 2-3/16" x 4', 10 Gauge perforated tube post.

WINGED SLIP BASE ANCHOR

The Contractor will furnish and install new winged slip base anchors for 2.5" x 2.5" perforated tube posts as required in the Permanent Signing Table. Winged slip base anchors will be installed using the direct drive method. Winged slip base anchors will consist of a slip base (upper), a 48-inch long winged anchor (lower), and a hardware kit.

TYPE 2 OBJECT MARKERS

All costs associated with the removal of object markers including posts and hardware and the installation of the new back-to-back object markers will be incidental to the contract unit price per each for "type 2 object marker backto-back".

REMOVE CONCRETE FOOTING

Concrete footings that are to be removed will be removed by the Contractor to a minimum of 2' below the ground surface. Restoration of the disturbed area will be to the satisfaction of the Engineer.

The existing footings located at Stations 348+96 and 350+49 will be removed by the Contractor as per these plans.

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

MILEAGE REFERENCE MARKERS

SDDOT will be notified to do Mileage Reference Markers (MRMs) locates prior to project completion by calling the Aberdeen Region Traffic Engineer at (605)626-2245. Payment for this work will be incidental to the various signing contract items.

NO PASSING ZONE SIGNS

SDDOT will be notified to do NO PASSING ZONE sign locates prior to project completion by calling the Aberdeen Region Traffic at (605)626-2245. Payment for this work will be incidental to the various signing contract items.

ROAD NARROWS SIGNS

Any Road Narrows signs will be returned to the SDDOT at the Clear Lake Maintenance Shop. The Engineer will be contacted before delivery. Cost for removing and returning the Road Narrows signs will be incidental to various contract items.

SIGNS FOR DELIVERY TO DOT

Any signs in the Permanent Sign Installation Table indicating "Deliver to DOT" will be returned to the SDDOT at the Clear Lake Maintenance Shop. The Engineer will be contacted before delivery. Cost for removing and returning the signs indicating "Deliver to DOT" will be incidental to various contract items.

DELINEATION

Delineation installation and spacing will be done according to Standard Plates 632.42, 632.44, and 632.46. Per the discretion of the Engineer, 73 delineators will be installed starting at Station 369+89 to Station 561+80. 3 delineators will be installed at the Northwest and Northeast radius of SD 15 respectively, totaling 6.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
DAKOTA	P-PH 0028(36)355	S3	S22

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AT

	Object Mar	ker Table
Station	Type 2 Object Marker Back-to- Back (Each)	Description
15+91	2	1 Each Side of Road
22+54	2	1 Each Side of Road
25+82	1	1 Right Side of Road
26+38	1	1 Right Side of Road
28+34	1	1 Right Side of Road
28+84	1	1 Right Side of Road
35+19	2	1 Each Side of Road
40+05	1	1 Right Side of Road
40+71	1	1 Right Side of Road
57+39	1	1 Left Side of Road
57+89	1	1 Left Side of Road
64+54	2	1 Each Side of Road
73+04	2	1 Each Side of Road
88+35	2	1 Each Side of Road
97+25	2	1 Each Side of Road
127+94.19	1	1 Left Side of Road
128+13	1	1 Right Side of Road
128+54.31	1	1 Left Side of Road
128+79	1	1 Right Side of Road
133+95	2	1 Each Side of Road
139+06	1	1 Left Side of Road
139+06	1	1 Right Side of Road
139+76	1	1 Left Side of Road
139+76	1	1 Right Side of Road
145+00	2	1 Each Side of Road
148+34	2	1 Each Side of Road
154+22	2	1 Each Side of Road
159+15	2	1 Each Side of Road
162+06	1	1 Left Side of Road
162+88	1	1 Left Side of Road
167+69	2	1 Each Side of Road
170+56	2	1 Each Side of Road
177+94	2	1 Each Side of Road
191+23	1	1 Left Side of Road
191+93	1	1 Left Side of Road
193+51	1	1 Left Side of Road
194+17	1	1 Left Side of Road
202+29	2	1 Each Side of Road
203+86	1	1 Left Side of Road
204+88	1	1 Left Side of Road

	Object Marker Table													
	Type 2 Object													
Station	Marker Back-to-	Description												
	Back (Each)													
215+28	2	1 Each Side of Road												
221+95	2	1 Each Side of Road												
229+50	2	1 Each Side of Road												
230+45	1	1 Left Side of Road												
231+27	1	1 Left Side of Road												
240+95	2	1 Each Side of Road												
245+22	1	1 Left Side of Road												
245+39	1	1 Left Side of Road												
245+70	1	1 Rignt Side of Road												
245+86	1	1 Rignt Side of Road												
255+95	1	1 Left Side of Road												
265+16	2	1 Each Side of Road												
256+61	1	1 Left Side of Road												
272+60	2	1 Each Side of Road												
290+07	2	1 Each Side of Road												
296+83	1	1 Left Side of Road												
296+83	1	1 Right Side of Road												
297+53	1	1 Left Side of Road												
297+53	1	1 Right Side of Road												
323+82	1	1 Left Side of Road												
334+35	2	1 Each Side of Road												
324+62	1	1 Left Side of Road												
371+35	1	1 Left Side of Road												
371+97	1	1 Left Side of Road												
373+47	1	1 Left Side of Road												
374+11	1	1 Left Side of Road												
377+09	1	1 Right Side of Road												
377+27	1	1 Left Side of Road												
377+75	1	1 Right Side of Road												
377+93	1	1 Left Side of Road												
404+56	2	1 Each Side of Road												
408+77	1	1 Right Side of Road												
409+43	1	1 Right Side of Road												
416+74	1	1 Left Side of Road												
417+52	1	1 Left Side of Road												
423+54	2	1 Each Side of Road												
442+45	2	1 Each Side of Road												
452+84	1	1 Left Side of Road												
453+34	1	1 Left Side of Road												
456+35	1	1 Right Side of Road												

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	P-PH 0028(36)355	S4	S22
Plotting [)ate: 01/26/2024		

Revised 8/13/2024 AT

	Object Mar	ker Table
	Type 2 Object	
Station	Marker Back-to-	Description
	Back (Each)	
456+40	1	1 Left Side of Road
457+23	1	1 Right Side of Road
457+39	1	1 Left Side of Road
458+50	1	1 Right Side of Road
460+25	2	1 Each Side of Road
460+50	1	1 Right Side of Road
462+50	1	1 Right Side of Road
464+50	1	1 Right Side of Road
466+50	1	1 Right Side of Road
468+50	1	1 Right Side of Road
469+03	2	1 Each Side of Road
469+07	1	1 Left Side of Road
470+39	1	1 Left Side of Road
470+50	1	1 Right Side of Road
482+56	1	1 Left Side of Road
483+36	1	1 Left Side of Road
493+40	1	1 Leftt Side of Road
493+50	2	1 Each Side of Road
493+60	1	1 Rignt Side of Road
505+60	2	1 Each Side of Road
508+89	1	1 Left Side of Road
509+64	1	1 Left Side of Road
512+75	2	1 Each Side of Road
523+27	2	1 Each Side of Road
542+89	2	1 Each Side of Road
543+11	2	1 Each Side of Road
544+40	1	1 Right Side of Road
545+06	1	1 Right Side of Road
550+61	1	1 Right Side of Road
551+27	1	1 Right Side of Road
554+14	1	1 Left Side of Road
554+30	1	1 Leftt Side of Road
554+46	1	1 Rignt Side of Road
554+54	1	1 Right Side of Road
561+85	1	1 Right Side of Road
562+55	1	1 Right Side of Road
564+17	2	1 Each Side of Road
564+59	1	1 Left Side of Road
565+17	1	1 Left Side of Road
Total	155	

																			STATE OF SOUTH		PROJECT	SHEET NO.	TOTAI Shee t
																			DAKOTA	P-PH	0028(36)355	S 5	S22
																			Plotting	Date: 01/26	5/2024		
																			Revised 8	8/12/2024	AT		
								SD 28	Perman	ent Sia	n Install	ation	Table]		
Station	Side of Road	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High	Flat Aluminum Sign, Nonremovable Copy Super/Very	2.0"x2.0" Perforated Tube Post	2.5"x2.5" Perforated Tube Post	(N.A.B.I.) Square Tube Anchor	(N.A.B.I.) 48" Winged Slip Base	Remove Traffic Sign	Remove Sign For Reset	Reset Sign	Salvage Traffic Sign	Direction Sign	Current Type of Post	Rema	rks		-		
		E stalling				Intensity (SQFT)	High Intensity (SQFT)	(FT)	(Ft)	Sleeve (Each)	Anchor (Each)	(Each)	(Each)		(Each)	1 4003					-		
13+90	Lt.	POP 749	D1-1	60	18	7.5		24.0		2		1				E	Telespar	Replace Existing Sign with N	lew Sign on Exist	ting Post	_		
16+05	Rt.	No Passing Zone	W14-3	482	(48X36							1			1	E	Telespar	Remove Exis Deliver to	sting Sign DOT.		_		
23+29	Rt.	Speed Limit 65	R2-1	24	30			11.0		1			1	1		w	Telespar	Remove and Reset Exist	ing Sign on New	Post			
23+29	Lt.	Speed Limit 45	R2-1	24	30			11.0		1			1	1		E	Telespar	Remove and Reset Exist	ing Sign on New	Post			
29+48	Lt.	Speed Reduction 45 MPH	W3-5	36	36			11.5		1			1	1		E	Telespar	Remove and Reset Exist	ing Sign on New	Post			
		DYNAMIC ENGINE BRAKING PROHIBITED		30	36							1						Remove Exis	tina Sians				
		By City Ordinance		30	12														0 0				
31+88	Lt.	UNMUFFLED DYNAMIC ENGINE BRAKING PROHIBITED By City Ordinance		30	36	7.5		11.0		1						E	Telespar	Place New Sign	on New Post				
33+94	Lt.	HAMLIN COUNTY	I-1	30	24			11.0		1			1	1		E	Telespar	Remove and Reset Exist	ing Sign on New	Post	-		
34+34	Lt.	Stop	R1-1	30	30			11.0		1			1	1		N	Telespar	Remove and Reset Exist	ing Sign on New	Post			
34+76	Rt.	Stop	R1-1	30	30			11.0		1			1	1		s	Telespar	Remove and Reset Exist	-				
		466 Ave (Two Signs)	D3-1	36	12	6.0										E/W			-				
34+89	Lt.	SD Hwy 28	D3-1	12	12	7.0		12.0		1		1				N/S	Telespar	Place New Sign					
			1.1	20	24	1.0		11.0		1			1	1				Remove and Reast Eviat	ing Sign on Now	Post	_		
35+45	Rt.	SHOULDER DROP	1-1	30	24			11.0		1			•			w	Telespar	Remove Exist	stina Sian	FUSI	-		
		OFF Mile Marker 356	W8-17P	36	36							1			1			Deliver to Replace Existing Sign with New Sig	DOT.	t Existing MRM	-		
59+87	Rt.	(Two Signs)	D10-6	4.5	18	1.1		5.0		1		1				E/W	Telespar	Locati	on		-		
		Adopt A Highway	ADO-5	36	36											-							
59+87	Lt.	ESTELLINE	ADO-1	36	18							1				E	Telespar	Remove Exis	ting Signs				
		Litter Crew Ahead	ADO-6	30	30																_		
87+48	Lt.	Stop	R1-1	30	30			11.0		1			1	1		N	Telespar	Remove and Reset Exist	ing Sign on New	Post			
87+94	Rt.	Stop	R1-1	30	30			11.0		1			1	1		s	Telespar	Remove and Reset Exist	ing Sign on New	Post			
00.07		467 Ave (Two Signs)	D3-1	36	12	6.0		10 -								E/W			New C	··· D· ··			
88+20	Lt.	SD Hwy 28 (Two Signs)	D3-1	42	12	7.0		12.0				1				N/S	- i elespar	Replace Existing Sign with	New Sign on Ne	w Post			
114+08	Rt.	Mile Marker 357	D10-6	4.5	18	1.1		5.0		1		1				E/W	Telespar	Replace Existing Sign with New Sig	n on New Post a	t Existing MRM	-		
114+11	Lt.	Mile Marker 357.02	D10-6	4.5	21	1.3		5.0		1		1				E/W	Telespar	Replace Existing Sign with New Sig	in on New Post a	t Existing MRM	-		
129+59	Lt.	No Passing Zone	W14-3	482	(48X36							1			1	w	Telespar	Remove Exis	sting Sign		-		
139+24	1+	Stop	R1-1	30	30			11.0		1		-	1	1		N	Telesnar	Bemove and Reset Evist	IDUT.	Post	-		
130+60		Stop		20	200			11.0					4	-			Tolcopar	Remove and React Evict		Post			
139+00	rt.		rt I-1	30	30			11.0		1						5	reiespar		ing aign on New	F 081	_		
139+72	Lt.	468 Ave (I wo Signs)	D3-1	36	12	6.0		12.0		1		1				E/W	Telespar	Replace Existing Sign with	New Sign on Ne	w Post			
		(Two Signs)	D3-1	42	12	7.0										N/S					_		
148+15	Rt.		W11-10	48	48							1			- 1	w	Telespar	var Remove Existing Sign Deliver to DOT.					
		HIGHWAY	W8-6G	42	36																_		
149+30	Rt.	No Passing Zone	W14-3	482	(48X36							1			1	E	Telespar	Telespar Remove Existing Sign Deliver to DOT.					
151+19	Lt.	No Passing Zone	W14-3	482	(48X36							1			1	w	Telespar	Telespar Remove Existing Sign Deliver to DOT.					
166+52	Rt.	Mile Marker 358	D10-6	4.5	18	1.1		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Sig	n on New Post a	t Existing MRM]		

																		STATE OF SOUTH DAKOTA	PROJECT 2-PH 0028(36)355	- SHEET TOTAL NO. SHEETS S6 S22
																		Plotting Date: 0	1/26/2024	00022
																		Revised 8/12/2		
								SD 28 I	Perman	ent Sig	n Instal	lation	Table							
Station	Side of Road	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Salvage Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks		
172+37	Rt.	No Passing Zone	W14-3	48X4	48X36							1			1	E	Telespar	Remove Existing Sign Deliver to DOT.		
175+59	Lt.	ADVANCE TRUCK (SYM) TRUCKS ENTERING	W11-10	48	48							1			1	E	Telespar	Remove Existing Sign Deliver to DOT.		
182+08	1+	HIGHWAY	W8-6G	42	36 48X36							1			1	W	Telespar	Remove Existing Sign		
199+84	Lt.	No Passing Zone	W14-3	48X4	48X36							1			1	w	Telespar	Deliver to DOT. Remove Existing Sign		
203+11	Rt.	No Passing Zone	W14-3	48X4	48X36							1			1	E	Telespar	Deliver to DOT. Remove Existing Sign		
218+18	Rt.	No Passing Zone	W14-3	48X4	48X36							1			1	E	Telespar	Deliver to DOT. Remove Existing Sign		
218+89	Rt.	Mile Marker 359	D10-6	4.5	18	1.1		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Sign on New Post at Existing	VRM	
220+66	Lt.	No Passing Zone	W14-3	48X4	48X36							1			1	w	Telespar	Remove Existing Sign		
241+28	Rt.	No Passing Zone	W14-3	48X4	48X36							1			1	E	Telespar	Remove Existing Sign Deliver to DOT		
243+75	Lt.	Stop	R1-1	30	30			11.0		1			1	1		N	Telespar	Remove and Reset Existing Sign on New Post		
244+15	Rt.	Stop	R1-1	30	30			11.0		1			1	1		S	Telespar	Remove and Reset Existing Sign on New Post		
244+34	Lt.	470 Ave (Two Signs)	D3-1	36	12	6.0		12.0		- 1		1				E/W	Telespar	Replace Existing Sign with New Sign on New Post		
		(Two Signs)	D3-1	42	12	7.0										N/S		Remove Existing Sign		
245+24	Lt.	No Passing Zone	W14-3	48X4	48X36							1			1	W	Telespar	Deliver to DOT. Remove Existing Sign		
245+23	Rt.	No Passing Zone Mile Marker 360	VV14-3	4884	48X36							1			1	E	Telespar	Deliver to DOT. Replace Existing Sign with New Sign on New Post at Existing	MRM	
272+03	RI.	(Two Signs)	D10-0	4.5	10	2.0		5.0				1				E/VV	U Channel	Location		
295+14	Lt.	SD 28	M1-5	24	24	4.0		11.0		1		1				E	Telespar	Replace Existing Signs with New Signs on New Post		
296+75	Lt.	THINK SIGN WHY DIE?										1				E	U Channel	Remove Existing Sign		
296+86	Lt.	Stop	R1-1	30	30		5.2	11.0		1		1				Ν	Telespar	Replace Existing Sign with New Sign on New Post		
297+43	Rt.	Stop	R1-1	30	30		5.2	11.0		1		1				S	Telespar	Replace Existing Sign with New Sign on New Post		
297+68	Lt.	471 Ave (Two Signs)	D3-1	36	12	6.0		12.0		- 1		1				E/W	Telespar	Replace Existing Sign with New Sign on New Post		
		SD Hwy 28 (Two Signs)	D3-1	42	12	7.0										N/S				
324+63	Rt.	(Two Signs)	D10-6	4.5	18	1.1		5.0		1		1				E/W	U Channel	Location	<u>//RM</u>	
335+88	Lt.	JUST A REMINDER SPEED LIMIT 65 PLEASE BUCKLE UP!	I-NS7									1				E	Telespar in Concrete	Remove Existing Signs and Posts		
		IT'S THE LAW	R16-1									-				1				
337+93	Lt.	Speed Limit 65	R2-1	24	30	5.0		11.0		1		1				E	Telespar	Replace Existing Sign with New Sign on New Post		
227.04		JCT (blue)	M2-1	21	15	2.2		40.5		4		4				14/	Talaaa	Papiago Eviptica Sicas with New Sicas and New S		
337+94	Kt.	I 29	M1-1	24	24	4.0		12.5								v	ı elespar	Replace Existing Signs with New Signs on New Post		
340+64	1+	No Passing Zone	W14-3	48X4	48X36								1			14/	Telesper	Remove and Reset Existing Sign at Station 341+50.		
340+04		SHOULDER DROP OFF	W8-17P	36	36							1			1	vv	relespar	Remove Existing Sign Deliver to DOT.		
341+50	Lt.	No Passing Zone	W14-3	48X4	48X36			11.0						1		W	Telespar	r Reset Sign from Station 340+64 on New Post.		
341+97	Lt.	Estelline 7 Hwy 81 20	D1-2	60	36	15.0						1				NE	Telespar	Replace Existing Sign with New Sign on Existing Post		
342+94	Rt.	^ Toronto ^ Watertown Brookings>	D1-2	108	60	45.0						1				w	Galvanized Steel Beam Breakaway	Replace Existing Sign with New Sign on Existing Post		

Station Side Roa	of Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Salvage Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	
344+45 Lt.	Road Narrows	W5-1	36	36							1			1	E	Telespar	
345+75 Lt.	Stop	R1-1	30	30		5.2	11.0		1		1				N	Telespar	Re
346+13 Rt	Stop	R1-1	30	30		5.2	11.0		1		1				s	Telespar	Re
	472 Ave (Two Signs)	D3-1	36	12	6.0										E/W		_
346+43 Lt.	SD Hwy 28 (Two Signs)	D3-1	42	12	7.0		12.0		- 1		1				N/S	Telespar	Rep
040-04	WEST	M3-4	24	12	2.0										_	Galvanized Pipe	
346+94 Lt.	SD 28	M1-5	24	24	4.0						1				E	Breakaway	Repla
	EAST	M3-2	24	12	2.0												
	SD 28	M1-5	24	24	4.0			1		-					1		
	Vertical Single Arrow	M6-3	21	15	2.2										1		_
	South (blue)	M3-3	24	12	2.0			26		2							Rej
347+97 Rt	I 29	M1-1	24	24	4.0			1		1	1				w	Galvanized Steel Beam Breakawav	
	Horizontal Arrow (blue) M6-1	21	15	2.2					-							
	North	M3-1	24	12							1						
	SD 15	M1-5	24	24							1				1		
	Vertical Single Arrow	M6-3	21	15							1						
	ONE WAY ON LEFT ARROW	R6-1L	54	18	6.8										E		
240.00	ONE WAY ON RIGH	R6-1R	54	18	6.8						1				w	Perforated Tube	
348+83 Lt.	Stop	R1-1	36	36		7.7									N	to Concrete)	Repla
	DO NOT ENTER	R5-1	36	36		9.0					1				s		
	LODGING (SYM)	D9-9	24	24	4.0												
	GAS (SYM)	D9-7	24	24	4.0						1				1		
348+87 Rt.	7 MILES	SW3-1	36	12	3.0						1				N	Telespar	Repla
	Horizontal Arrow (blue) M6-1	21	15	2.2						1				1		
	North	M3-1	24	12													
	SD 15	M1-5	24	24							1						
348+96 Rt	Horizontal Arrow	M6-1	21	15							1				N	Telespar in Concrete	
	SD 28	M1-5	24	24	4.0						1						
	Horizontal Double Hea	d M6-4	21	15	2.2		11.0		1		1						Rep
	ONE WAY ON LEFT	R6-1L	54	18	6.8										E	E	
	ONE WAY ON RIGH	R6-1R	54	18	6.8						1				w	Perforated Tube	
349+59 Lt.	Stop	R1-1	36	36		7.7					1				N	Flush Mount (Bolted to Concrete)	ed Rep
	DO NOT ENTER	R5-1	36	36		9.0					1				s	•	

	STATE OF		PROJECT	SHEET NO.	TOTAL SHEETS	
	DAKOTA	P-PH 0	028(36)355	S7	S22	
	Plotting I	Date: 01/26/	2024			
	Revised 8	8/12/2024	AT			
			1			
Rema	rks					
Remove Exis	sting Sign					لي
Deliver to	DOT.					ΝAΝ
eplace Existing Sign with	New Sign on Ne	ew Post				010
eplace Existing Sign with	New Sign on Ne	ew Post				
place Existing Signs with I	New Signs on N	ew Posts				
ace Existing Signs with N	lew Signs on Exi	isting Post				
place Evicting Signe with	Now Signs on N	low Post				
place Existing Signs with	New Signs on N	iew F USt				
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ace Existing Signs with N	lew Signs on Exi	isting Post				BROK
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Romovo Evio	ting Sigha					
Neniove Exis						
place Existing Signs with	New Signs on N	lew Post				
ace Existing Signs with N	lew Signs on Exi	isting Post				

								SD 28	Perman	ent Sig	n Instal	lation	Table					
Station	Side of Road	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Salvage Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	
		South (blue)	M3-3	24	12	2.0												
		I 29	M1-1	24	24	4.0					-							
		Horizontal Arrow (blue)	M6-1	21	15	2.2			-								Galvanized Steel	_
350+49	Lt.	WEST	M3-4	24	12	2.0			- 26.0		- 2	1				E	Beam Breakaway in Concrete	n Re
		SD 28	M1-5	24	24	4.0												
		Vertical Single Arrow	M6-3	21	15	2.2					-							
352+58	Rt.	^ Estelline	D1-2	66	30	13.8						1				E	Telespar	Rep
356+10	Rt.	Mile Marker 361.61	D10-6	4.5	21	1.3		5.0		1		1				E/W	U Channel	Replace E
		END MARKER	R3-9dP	18	12													
356+13	Lt.	SD 15	M1-5	24	24							1				E	Telespar	
356+46	Rt.	^ Toronto < Watertown	D1-2	96	48	32.0						1				w	Galvanized Steel Beam Breakaway	Rep
		North (blue)	M3-1	24	12	2.0												
		I 29	M1-1	24	24	4.0			-		-							
		Horizontal Arrow (blue)	M6-1	21	15	2.2												
		EAST	M3-2	24	12	2.0			- 26		2							Re
358+46	Rt.	SD 28	M1-5	24	24	4.0					-	1				w	Galvanized Steel Beam Breakaway	
		Vertical Single Arrow	M6-3	21	15	2.2					_							
		North	M3-1	24	12													
		SD 15	M1-5	24	24							1						
		Vertical Single Arrow	M6-3	21	15													
		ONE WAY ON LEFT ARROW	R6-1L	54	18	6.8										w		
		ONE WAY ON RIGHT ARROW	R6-1R	54	18	6.8										E	Telespar (Bolted to	
359+36	Rt.	Stop	R1-1	36	36		7.7					- 1				s	Concrete)	Repl
		DO NOT ENTER	R5-1	36	36		9.0									N	-	
		ONE WAY ON LEFT	R6-1L	54	18	6.8										w		
		ONE WAY ON RIGHT	R6-1R	54	18	6.8										E	Perforated Tube	
359+91	Rt.	Stop	R1-1	36	36		7.7					- 1				s	Flush Mount (Bolted to Concrete)	i Repla
		DO NOT ENTER	R5-1	36	36		9.0									N	-	
		North	M3-1	24	12													
		SD 15	M1-5	24	24							1						
359+99	Lt.	Horizontal Arrow	M6-1	21	15							1				s	Telespar	
		SD 28	M1-5	24	24	4.0		11.0				1						
		Horizontal Double Head Arrow	M6-4	21	15	2.2		11.0		1		1						Rep
		LODGING (SYM)	D9-9	24	24	4.0												
000.05		GAS (SYM)	D9-7	24	24	4.0						1.						
360+09	Lt.	7 MILES	SW3-1	36	12	3.0										s	l elespar	Repla
		Horizontal Arrow (blue)	M6-1	21	15	2.2						1				1		

	STATE OF SOUTH		PROJECT	SHEET NO.	TOTAL SHEETS	
	DAKOTA	P-PH (0028(36)355	S8	S22	
	Plotting	Date: 01/26/	²⁰²⁴			
	Revised &	3/12/2024	AI			
Remar	ks					
						-
eplace Existing Sign with	New Sign on Ne	ew Post				ō
lace Existing Sign with N	ew Sign on Exis	ting Post				
kisting Sign with New Sign Locatio	n on New Post a on	at Existing MRM				
Remove Existing S	Signs and Post					
Remove Existing C	Signs and 1 ost					
lace Existing Sign with N	ew Sign on Exis	ting Post				
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place Existing Signs with	New Signs on N	ew Post				ί
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Remove Existing S	Signs and Post					2000
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ace Existing Signs with N	ew Signs on Exi	sting Post				
ace Existing Signs with N	ew Signs on Exi	sting Post				
Remove Exist	tina Sians					
	0 0					
place Existing Signs with	New Signs on N	ew Post				
ace Existing Signs with N	ew Signs on Exi	sting Post				

					Table	lation	n Instal	ent Sig	Perman	SD 28								
	Current Type of Post	Direction Sign Faces	Salvage Traffic Sign (Each)	Reset Sign (Each)	Remove Sign For Reset (Each)	Remove Traffic Sign (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	2.5"x2.5" Perforated Tube Post 10 Ga. (Ft)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Height (Inches)	Width (Inches)	Sign Code	Description	Side of Road	Station
Repla	Galvanized Pipe Breakaway	E				1					9.0		36	36	R5-1	DO NOT ENTER	Rt.	360+95
												2.0	12	24	M3-3	South (blue)		
												4.0	24	24	M1-1	I 29		
												2.2	15	21	M6-1	Vertical Single Arrow (blue)		
												2.0	12	24	M3-4	WEST		
Repla	Galvanized Steel Beam Breakaway	E				1						4.0	24	24	M1-5	SD 28	Lt.	360+98
												2.2	15	21	M6-3	Vertical Single Arrow		
												2.0	12	24	M3-1	North (blue)		
												4.0	24	24	M1-1	I 29		
												2.2	15	21	M6-1	Horizontal Arrow (blue)		
Repla	Galvanized Steel Beam Breakaway	sw				1					7.8		36	36	R1-2	YIELD	Rt.	361+44
Replace Exis												2.0	12	24	M3-2	EAST		
	Talaanan											4.0	24	24	M1-5	SD 28		262.05
	relespar												12	24	M3-1	North	к.	303+95
		1				1							24	24	M1-5	SD 15		
	Telespar	w	1			1							36	36	W5-1	Road Narrows	Rt.	365+45
Replace Exi	Galvanized Steel Beam Breakaway	E				1						45.0	60	108	D1-2	^ Estelline ^ Brookings Watertown>	Lt.	365+96
F	Telespar	E		1				1		11.0			8X36	48X4	W14-3	No Passing Zone	Rt.	366+00
Rem	Telespar	E			1								8X36	48X4	W14-3	No Passing Zone	Rt.	366+83
Replace Exi	Galvanized Pipe Breakaway	w				1						24.0	36	96	D1-2	Toronto 6 Clear Lake 15	Rt.	368+94
Rep	Telespar	E				1		1		11.5		2.2	15	21	M2-1	JCT (blue)	Lt.	370+91
												4.0	24	24	M1-1	I 29		
Rep	Telespar	w				1		1		11.0		5.0	30	24	R2-1	Speed Limit 65	Rt.	371+81
			1										36	36	W8-17P	OFF		
	Telespar	w				1									I-NS7	JUST A REMINDER SPEED LIMIT 65 PLEASE BUCKLE UP!	Rt.	373+76
															R16-1	IT'S THE LAW		
Replace Exi	U Channel	E/W				1		1		5.0		1.1	18	4.5	D10-6	Mile Marker 362 (Two Signs)	Rt.	376+93
R	Telespar	N		1	1			1		11.0			30	30	R1-1	Stop	Lt.	403+75
R	Telespar	S		1	1			1		11.0			30	30	R1-1	Stop	Rt.	404+15
Popl	Telesnor	E/W				1		1		11.0		6.0	12	36	D3-1	473 Ave (Two Signs)	1+	404+34
пері		N/S								11.0		7.0	12	42	D3-1	SD Hwy 28 (Two Signs)		404734
	Telesnor	\M/		1	1			1		11.0			12	24	M3-2	EAST	Rt	405+60
		~~~			1					11.0			24	24	M1-5	SD 28	- TAL.	80+00
	Telespar	w	1			1							8X36	48X4	W14-3	No Passing Zone	Lt.	423+87

	STATE OF		PROJECT	SHEET NO.	TOTAL SHEETS
	DAKOTA	P-PH (	0028(36)355	S9	S22
	Plotting	Date: 01/26	/2024		
	Revised 8	3/12/2024	AT		
Remark	s				
ace Existing Sign with Ne	ew Sign on Exist	ting Post			
					1
					i
ce Existing Signs with Ne	w Signs on Exis	sting Post			
ace Existing Sign with Ne	w Sign on Exist	ting Post			
sting Signs with New Sig	ns on Existing P	ost and Retrofit			
for Single As	sembly				i
					l
Remove Existi	ng Signs				
Remove Exist	ing Sign				
Deliver to L	JUI.	at and Extended			
Aluminu	Im				1
Reset Sign from Station 3	66+83 on New I	Post			
nove and Reset Existing s	Sign at Station 3	366+00.			
isting Sign with New Sign	on Existing Pos	st and Extruded			
Aluminu	im				
place Existing Sign with N	ew Sians on Ne	ew Post			
place Existing Sign with N	New Sign on Ne	w Post			
Remove Exist Deliver to I	ing Sign				
2011101 101					
Remove Existi	ng Signs				
isting Sign with New Circu	on Now Deet -	t Evicting MDM			
Locatio	n new Posta n				
Remove and Reset Existin	ng Sign on New	Post			
Remove and Reset Existin	ng Sign on New	Post			
	I				
ace Existing Signs with N	vew Signs on N	ew Post			
Remove and Reset Existin	ng Sign on New	Post			
Remove Exist	ing Sign				
Deliver to [	DOT.				

																			STATE OF		PROJECT	SHEET NO.	TOTAL SHEETS
																			DAKOTA	P-PH	0028(36)355	S10	S22
																			Plotting	Date: 01/2	6/2024		
																			Revised	8/12/2024	AT		
								00.001	<b>.</b>	a		lation	Tabla										
	1			1				50 28 1	erman	ent Sig	n Instai	lation	i abie			1					_		
						Flat Aluminum sign,	Flat Aluminum Sign,	2.0"x2.0" Perforated	2.5"x2.5" Perforated	(N.A.B.I.) Square	(N.A.B.I.) 48"	Remove	Remove	Reset	Salvage	Direction							
Station	Side of Road	l Description	Sign Code	(Inches)	Height (Inches)	Nonremovable Copy High	Nonremovable Copy Super/Very	Tube Post 12 ga.	Tube Post 10 Ga.	Anchor	Slip Base	Sign	Reset	Sign (Each)	I raffic Sign	Sign Faces	Current Type of Post	Rema	arks				
						(SQFT)	High Intensity (SQFT)	(FŤ)	(Ft)	(Each)	Anchor (Each)	(Each)	(Each)		(Each)								
429+22	Rt.	Mile Marker 363 (Two Signs)	D10-6	4.5	18	1.1		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Si Loca	gn on New Post tion	at Existing MRN			
440+61	Lt.	No Passing Zone	W14-3	482	<48X36							1			1	w	Telespar	Remove Ex Deliver to	isting Sign o DOT.				
443+24	Rt.	No Passing Zone	W14-3	482	K48X36							1			1	E	Telespar	Remove Ex Deliver to	isting Sign o DOT.				
456+56	Lt.	Stop	R1-1	30	30			11.0		1			1	1		N	Telespar	Remove and Reset Exis	ting Sign on Nev	Post			
456+97	Rt.	Stop	R1-1	30	30			11.0		1			1	1		s	Telespar	Remove and Reset Exis	ting Sign on Nev	Post			
457+10	1.4	474 Ave (Two Signs)	D3-1	36	12	6.0		11.0		1		1				E/W	Toloopor	Boplace Evicting Signe with	Now Signs on N	ow Boot			
457+10	LI.	SD Hwy 28 (Two Signs)	D3-1	42	12	7.0		11.0								N/S	relespar	Replace Existing Signs with	Tivew Signs on r	lew Post			
461+97	Rt.	No Passing Zone	W14-3	482	K48X36							1			1	E	Telespar	Remove Ex Deliver to	isting Sign o DOT.				
480+92	Rt.	Mile Marker 364 (Two Signs)	D10-6	4.5	18	1.1		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Si Loca	gn on New Post tion	at Existing MRN			
493+65	Rt.	Mile Marker 364.22 (Two Signs)	D10-6	4.5	21	1.3		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Si Loca	gn on New Post tion	at Existing MRN			
503+00	Lt.	No Passing Zone	W14-3	482	<48X36							1			1	w	Telespar	Remove Ex Deliver to	isting Sign o DOT.				
509+09	Lt.	Stop	R1-1	30	30			10.5		1			1	1		N	Telespar	Remove and Reset Exis	ting Sign on Nev	Post			
509+47	Rt.	Stop	R1-1	30	30			10.5		1			1	1		s	Telespar	Remove and Reset Exis	ting Sign on Nev	Post			
500+50	1.+	475 Ave (Two Signs)	D3-1	36	12	6.0		11.0		1		1				E/W	Tolospar	Poplace Existing Signs with	Now Signs on N	ow Post			
303+39	LL.	SD Hwy 28 (Two Signs)	D3-1	42	12	7.0		11.0								N/S	Telespai		Thew Signs of T	ew Post			
522+54	Rt.	No Passing Zone	W14-3	482	K48X36							1			1	E	Telespar	Remove Ex Deliver to	isting Sign o DOT.				
529+83	Rt.	Mile Marker 365 (Two Signs)	D10-6	4.5	18	1.1		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Si Loca	gn on New Post tion	at Existing MRN			
543+19	Rt.	Mile Marker 365.16 (Two Signs)	D10-6	4.5	21	1.3		5.0		1		1				E/W	U Channel	Replace Existing Sign with New Si Loca	gn on New Post tion	at Existing MRN			
543+71	Lt.	No Passing Zone	W14-3	48>	K48X36							1			1	w	Telespar	Remove Ex Deliver to	isting Sign o DOT.				
		SD 15	M1-5	24	24																		
552+12	Rt	Advance Left Turn Arrow	M5-1L	21	15								1			w	Telespar	Remove Ex	isting Sign				
002112		SD 28	M1-5	24	24												, oloopal		ioung orgin				
		Vertical Single Arrow	M6-3	21	15																		
555+00	Rt.	JCT	M2-1	21	15	2.2		- 11.0		1								- Place New Sign	s on New Post				
		SD 15	M1-5	24	24	4.0																	
557+13	Rt.	^ Toronto 2 < Clear Lake 12	D1-2	96	30				24.0		2		1	1		w	Telespar	Remove and Reset Exis	ting Sign on Nev	Post			
		WEST	M3-4	24	12			24.0		2			4	4				Pomovo and Prant Side	ting Sign on New	Post			
559+18	Lt.	SD 28	M1-5	24	24			24.0						1		E	Telespar	Remove and Reset Exis	ang ວເgn on Nev	FOSI			
		SHOULDER DROP OFF	W8-17P	36	36							1			1			Remove Ex Deliver to	isting Sign o DOT.				
561+80	Lt.	Stop	R1-1	30	30			10.5		1			1	1		N	Telespar	Remove and Reset Exis	ting Sign on New	Post			
		North	M3-1	24	12	2.0												Place Ne	ew Sign				
		SD 15	M1-5	24	24													Remove and Resat Evis	ting Sign on New	Post			
561+97	Pt	Horizontal Arrow	W1-7	21	15			24.0					1	1		w/	Telespor			. 031			
501+07	TXL.	EAST	M3-2	24	12	2.0		24.0								~~	Гогораг	Place Ne	ew Sign				
		SD 28	M1-5	24	24													Remove and Reset Evis	ting Sign on Nev	Post			
		Vertical Single Arrow	M6-3	21	15															. 031			
					-																		

								SD 28	Perman	ent Sig	n Instal	lation	Table					
Station	Side of Road	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum sign, Nonremovable Copy High Intensity (SQFT)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SQFT)	2.0"x2.0" Perforated Tube Post 12 ga. (FT)	2.5"x2.5" Perforated Tube Post 10 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	(N.A.B.I.) 48" Winged Slip Base Anchor (Each)	Remove Traffic Sign (Each)	Remove Sign For Reset (Each)	Reset Sign (Each)	Salvage Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	
		END MARKER	R3-9dP	18	12	1.5												
561+84		SD 15	M1-5	24	24	4.0		- 11.0		- 1						N		
562+36	Rt.	Stop	R1-1	36	36			11.0		1			1	1		s	Telespar	R
562+71	Lt.	Mile Marker 128.23 (Two Signs)	D10-6	4.5	21	1.3		5.0		1		1				E/W	U Channel	Replace Exi
		SD Hwy 28 (Two Signs)	D3-1	42	12	7.0										N/S		
		<- SD Hwy 15 (Two Signs)	D3-1	48	12	4.0					1					w		
		SD Hwy 15 -> (Two Signs)	D3-1	48	12	4.0					1					E		
562+74	Lt.	476 Ave ^ (Two Signs)	D3-1	48	12	4.0			13.0		1	1				N	Telespar	Repl
		SD Hwy 15 ^ (Two Signs)	D3-1	48	12	4.0										s		
		476 Ave -> (Two Signs)	D3-1	48	12	4.0										w		
		476 Ave <- (Two Signs)	D3-1	48	12	4.0										E		
504.00		EAST	M3-2	24	12													
564+02	Rt.	SD 28	M1-5	24	24			- 11.5		- 1			1	1		W	l elespar	R
		WEST	M3-4	24	12	2.0												
		SD 28	M1-5	24	24													_
		Vertical Single Arrow	M6-3	21	15													R
565+30	Lt.	North	M3-1	24	12	2.0		- 24.0		2			1	1		E	l elespar	
		SD 15	M1-5	24	24			-					1			1		
		Horizontal Arrow	W1-7	21	15			-		-			1			1		
		Adopt A Highway	ADO-5	36	36													
566+09	Rt.	Courtesy of	ADO-1	36	18							1				w	Telespar	
		Litter Crew Ahead	ADO-6	30	30							1						
			1		TOTAL	582.3	104.4	706.5	115.0	70.0	9.0	91	30	29	28		1	

	STATE OF		PROJECT	SHEET NO.	TOTAL SHEETS
	DAKOTA	P-PH (	0028(36)355	S11	S22
	Plotting [	)ate: 01/26	5/2024		
	Revised 8	3/12/2024	AT		
Remarks	6				
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Remove Existin	g Signs				· .
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									STATE OF	PROJE	CT	SHEET NO.	TOTAL SHEETS
				Sign Si	ummary	28 חצ			DAKOTA	P-PH 0028(3	36)355	S12	S22
				Sign S		50 20			Plotting	Date: 01/26/2024	4		
							Elat Aluminum Sign		Revised	8/12/2024	AT		
Sign Code	Description	Width (Inches)	Height (Inches)	Sq. Ft.	No.	Flat Aluminum Sign, Nonremovable Copy High Intensity (SQFT)	Nonremovable Copy Super or Very High Intensity (SQFT)	Text / Background					
	UNMUFFLED DYNAMIC ENGINE BRAKING PROHIBITED By City Ordinance	30	36	7.5	1	7.5		Black on White/Black Border					
D1-1	Estelline POP 749	60	18	7.5	1	7.5		White on Green					
D1-2	Estelline 7 Hwy 81 20	60	36	15.0	1	15.0		White on Green					
D1-2	^ Toronto ^ Watertown Brookings>	108	60	45.0	1	45.0		White on Green					
D1-2	^ Estelline < Brookings	66	30	13.8	1	13.8		White on Green					
D1-2	^ Toronto < Watertown	96	48	32.0	1	32.0		White on Green	-				
D1-2	^ Estelline < Brookings Watertown>	108	60	45.0	1	45.0		White on Green					
D1-2	Toronto 6 Clear Lake 15	96	36	24.0	1	24.0		White on Green	_				
D3-1	Street Signs SD Hwy 28 (Two Signs for Each)	42	12	3.5	20	70.0		White on Green	-				
D3-1	Street Signs 466 Ave - 468 Ave, 470 Ave - 475 Ave (Two Signs for Each)	36	12	3.0	18	54.0		White on Green					
D3-1	Street Sign ^ SD Hwy 15	48	12	4.0	1	4.0		White on Green	]				
D3-1	Street Sign SD Hwy 15 ->	48	12	4.0	1	4.0		White on Green					
D3-1	Street Sign <- SD Hwy 15	48	12	4.0	1	4.0		White on Green	4				
D3-1	Street Sign 476 Ave ^	48	12	4.0	1	4.0		White on Green					
D3-1	Street Sign 476 Ave ->	48	12	4.0	1	4.0		White on Green	-				
D3-1	Street Sign <- 476 Ave	48	12	4.0	1	4.0		White on Green	-				
D9-9	GAS (SYM)	24	24	4.0	2	8.0		White on Blue/White Border	-				
D10-6	Mile Markers 356-365 (Two Signs for Each)	4.5	18	0.6	20	11.3		White on Green	-				
D10-6	Mile Markers 357.02, 361.61, 364.22, 365.16, 128.23 (Two Signs for Each)	4.5	21	0.7	10	6.6		White on Green					
R3-9dP	End Marker	18	12	1.5	1	1.5		Black on White/Black Border					
M1-1	I 29	24	24	4.0	7	28.0			1				
M1-5	SD 15	24	24	4.0	2	8.0		See Standard Plate 632.20	4				
M1-5	SD 28	24	24	4.0	9	36.0		See Standard Plate 632.20	4				
M2-1		21	15	2.2	2	4.4		VVIIIte on Blue/VVIIte Border	+				
		24	10	2.2		<u> </u>			4				
M3-1	North	24	12	2.0	2	4.0		Black on White/Black Border	1				
M3-2	Fast	24	12	2.0	4	80		Black on White/Black Border	1				
M3-3	South	24	12	2.0	3	6.0		White on Blue/White Border	1				
M3-4	West	24	12	2.0	5	10.0		Black on White/Black Border	1				
M6-1	Horizontal Arrow	21	15	2.2	6	13.1		White on Blue/White Border	1				
M6-1	Horizontal Arrow	21	15	2.2	0	0.0		Black on White/Black Border	1				
M6-3	Vertical Single Arrow	21	15	2.2	1	2.2		White on Blue/White Border	1				
M6-3	Vertical Single Arrow	21	15	2.2	4	8.8		Black on White/Black Border	1				
M6-4	Horizontal Double Head Arrow	21	15	2.2	2	4.4		Black on White/Black Border	]				
R1-1	Stop	30	30	5.2	4		20.8	White on Red	]				
R1-1	Stop	36	36	7.7	4		30.8	White on Red	]				
R1-2	Yield	36X	36X36	7.8	1		7.8	White on Red	]				
R2-1	Speed Limit 65	24	30	5.0	2	10.0		Black on White					
R5-1	DO NOT ENTER	36	36	9.0	5		45.0	Red on White	1				
R6-1L	ONE WAY ON LEFT ARROW	54	18	6.8	4	27.0		Black on White	1				
R6-1R	ONE WAY ON RIGHT ARROW	54	18	6.8	4	27.0		Black on White	1				
SW3-1	7 MILES	36	12	3.0	2	6.0		White on Blue/White Border					
					Totals	582.3	104.4						

# SPECIAL SIGN LAYOUT





2.0" Radius, 1.0" Border, White on Green; "Estelline", E Mod 2K; "POP. 749", C 2K;



1.0" Radius, 0.5" Border, White on Blue; "7", C 2K; "MILES", C 2K;



1.0" Radius, 0.5" Border, White on Green; "SD Hwy 15", C 2K 70% spacing; Standard Arrow Custom 6.4" X 6.4" 90°;



1.0" Radius, 0.5" Border, White on Green; "SD Hwy 15", C 2K 70% spacing; Standard Arrow Custom 6.4" X 6.4" 0°;



1.0" Radius, 0.5" Border, White on Green; Standard Arrow Custom 6.4" X 6.4" 180°; "SD Hwy 15", C 2K 70% spacing;

3.0" Radius, 1.0" Border, White on Green; "Estelline", D 2K; "7", D 2K; "20", D 2K;

$$\begin{array}{c} 466 \text{ Ave} \\ \hline 3.1 \\ \hline 36.0 \\ \hline \end{array}$$

1.0" Radius, 0.5" Border, White on Green; "466 Ave", C 2K;



1.0" Radius, 0.5" Border, White on Green; "467 Ave", C 2K;





1.0" Radius, 0.5" Border, White on Green; "470 Ave", C 2K;



1.0" Radius, 0.5" Border, White on Green; "471 Ave", C 2K;



1.0" Radius, 0.5" Border, White on Green; "472 Ave", C 2K;



1.0" Radius, 0.5" Border, White on Green; "473 Ave", C 2K;



1.0" Radius, 0.5" Border, White on Green; "474 Ave", C 2K;



1.0" Radius, 0.5" Border, White on Green; "475 Ave", C 2K;



# SPECIAL SIGN LAYOUT



3.0" Radius. 1.0" Border. White on Green: Standard Arrow 2 9.4" X 5.4" 90°; "Estelline", D 2K; Standard Arrow 2 9.4" X 5.4" 180°: "Brookings". D 2K:

> UNMUFFLED DYNAMIC

> > ENGINE BRAKING

**PROHIBITED** 



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6.0" Radius, 1.3" Border, White on Green; Standard Arrow 2.25 9.9" X 6.1" 90°: "Toronto". D 2K: Standard Arrow 2.25 9.9" X 6.1" 180°; "Watertown", D 2K;



3 |2| 3 |2| 3 | N Estelline 17 37 Brookings  $\uparrow$ Watertown 10,1-+6.1+10.0-+ -38.6 -26.3— -46 8-108.0

> 6.0" Radius, 1.3" Border, White on Green; Standard Arrow 2.25 9.9" X 6.1" 90°; "Estelline", D 2K; Standard Arrow 2.25 9.9" X 6.1" 90°; "Brookings", D 2K; "Watertown", D 2K; Standard Arrow 2.25 9.9" X 6.1" 0°;

6.0" Radius, 1.3" Border, White on Green; "Watertown", D 2K; "Brookings", D 2K; Standard Arrow 2.25 9.9" X 6.1" 0°;

1.5" Radius, 0.8" Border, Black on, White; "UNMUFFLED", D 2K; "DYNAMIC", D 2K; "ENGINE", D 2K; "BRAKING", D 2K; "PROHIBITED", D 2K; "BY CITY", D 2K; "ORDINANCE", D 2K;

# BREAKAWAY SIGN SUPPORTS





above the chordline within a 60" chord.



#### GENERAL NOTES-

- I. Design Specification: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, Latest Edition.
- 2. The manufacturer will provide certification that the posts and hardware furnished have essentially the same chemistry, mechanical properties and geometry as that used in the FHWA tests, and that it will meet the FHWA change in velocity requirements.
- 3. The manufacturer will also provide certification that the breakaway system furnished will develop the full shear and bending yield strength of the sign post section being spliced.
- 4. All posts will be galvanized in accordance with ASTM A653, Des. G-90.
- 5. All hardware will be galvanized in accordance with ASTM AI53.





















PLOT SCALE - 1:2





#### Delineators will be located from 2 to 8 feet outside o roadside barrier or other obstruction intrudes into the and the extension of the line of delineators, the delin or in line with the innermost edge of the obstruction. When normal spacing is interrupted by driveways, cr falling within such areas may be moved in either dire one-quarter of the standard spacing. Delineators still eliminated. The spacing for specific radii may be interpolated fro spacing should be 20 feet. The spacing on curves sh In advance of or beyond a curve, and proceeding aw the spacing of the first delineator is 2S, the second 3 to exceed 300 feet. S refers to the delineator spacing the formula $S = 3\sqrt{R - 50}$ . The distances for S show nearest 5 feet. Curve approach delineation is not required if curve Back-to-back delineation is required for two-way tra-DELINEATOR OUTSIDE C Radius Curve Delineator of Curve (Ft.) Spacing (Ft. 50 20 115 25 150 30 180 35 250 40 300 45 400 55 500 65 600 70 700 75 800 80 85 900 1000 90 SDDOT DELINEAT Published Date: 2025

**GENERAL NOTES:** 

PLOTTED FROM - TRAB10100

	STATE OF		PROJECT	SHEET NO.	TOTAL SHEETS	
	DAKOTA	P-PH	0028(36)355	S20	S22	1
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