

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S1	S18

Plotting Date: 06/29/2015

Section S: Permanent Signing Plans

INDEX OF SHEETS

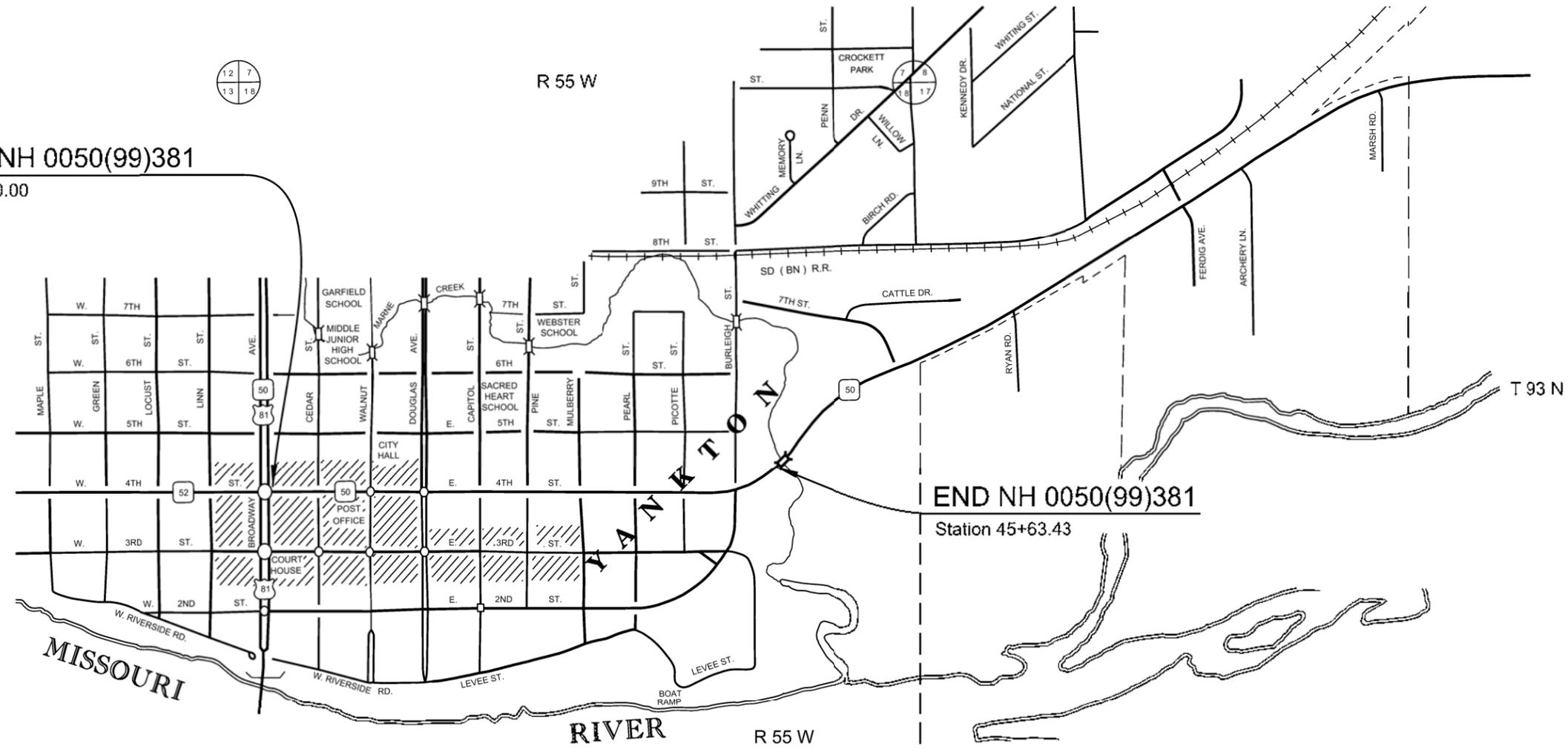
S1	Front Sheet w/Index
S2 and S3	Estimate of Quantities with General Notes
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S18 and S19	Standard Plates

BEGIN NH 0050(99)381

Station 4+00.00

END NH 0050(99)381

Station 45+63.43



PLOT SCALE - 1:2523.77

PLOTTED FROM - ITRHIND17

PLOT NAME - 1

FILE - ... \6926 SIGNING CONTAINER.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S2	S18

SECTION S PERMANENT SIGNING ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E5020	Salvage Traffic Sign	78	Each
632E0010	1.25' Diameter Breakaway Support Concrete Footing	72.0	Ft
632E1320	2.0"x2.0" Perforated Tube Post	114.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	212.0	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	414.4	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	109.2	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	4	Each
900E0030	Remove and Reset Historical Marker	3	Each

SCOPE OF PERMANENT SIGN WORK

The permanent sign work includes, but is not limited to, the following:

- A. Items to be removed by the Contractor:
 - Concrete footings
- B. Items to be removed and salvaged by the Contractor:
 - 1. Existing permanent signs
 - 2. Existing breakaway sign posts
 - 3. Object markers
- C. Items to be furnished and installed by the Contractor:
 - 1. Breakaway steel post sign supports with concrete footings
 - 2. Flat sheet aluminum signs
 - 3. Breakaway wood and steel post sign supports
 - 4. Delineators and object markers
- D. Installations as listed in the SIGN INSTALLATION TABLE

SALVAGE TRAFFIC SIGN

The Community Wayfinding Guide Signs in the removal table shall be removed and delivered to the City of Yankton. The Contractor shall remove the sign from its supports before removing the supports with their footings. The Contractor shall replace in kind any signs, supports, support bases or related hardware lost or damaged during removal and transport. Any replacement materials shall be in kind and at the Contractor's expense.

All bolts, nuts, and washers shall be placed in individual five-gallon pails.

Signs, reusable posts, and hardware damaged or lost due to carelessness shall be replaced in kind at the Contractor's expense.

Signs shall be separated from supports prior to stockpiling. Salvaged signs shall be neatly stockpiled without damaging them.

Except as listed below, the Contractor shall neatly stockpile salvaged signs, posts, and related hardware [nuts, bolts, and miscellaneous mounting hardware] at the Sioux Falls Department of Transportation Maintenance Complex, 5316 W. 60th St. N., Sioux Falls, SD. Stockpiling of salvaged state material shall be coordinated with the Project Engineer and Mr. Ken Bennett (605.367.4970X2501)

Any sign without a state date decal displaying the year of manufacture, existing street name signs, and supports shall be delivered to the City of Yankton. Stockpiling of salvaged city material shall be coordinated the City of Yankton.

REMOVE, SALVAGE, RELOCATE AND RESET PERMANENT SIGNS

The Contractor shall remove, salvage, relocate, and reset signs as indicated in the Permanent Sign Table.

The Contractor shall replace in kind any signs, supports, support bases or related hardware lost or damaged during the time the signs were removed, salvaged, stockpiled and reset. Any replacement materials shall be in kind and at the Contractor's expense.

To complete the project sign work, resetting of signs shall be at their original locations or as near as practicable to their original locations as completed project related work allows.

FURNISH AND INSTALL TRAFFIC SIGNS

The signs listed on the Permanent Sign Table in the plans as new installations shall be provided for the locations specified.

Flat aluminum signs greater than 24" on the horizontal axis when installed shall be 0.100" flat sheet aluminum. Flat aluminum signs 24" or less on the horizontal axis when installed shall be 0.080" flat sheet aluminum.

SIGN LEGEND, BORDER AND BACKGROUND

All signs are to be installed in accordance with Sections 632 and 982 of the Specifications.

All sign legend, border and background sheeting material shall meet or exceed standards for ASTM D4956 classified Type IV high intensity sheeting or Type XI super/very high intensity sheeting, as indicated in the plans.

Sheeting material on warning signs shall be fluorescent yellow and meet or exceed standards for ASTM D4956 classified Type XI super/very high intensity microprismatic sheeting.

Sheeting material on S1-1 school area signs and their supplemental plaques shall be fluorescent yellow green and meet or exceed standards for ASTM D4956 classified Type XI super/very high intensity microprismatic sheeting.

All auxiliary signs used with South Dakota state route markers shall have green borders with black legend or symbol on a high intensity white background.

Post mounted street signs shall be single-faced with high intensity white border and text on high intensity green sheeting.

REMOVE AND RESET HISTORICAL MARKER

The historical markers to be reset at 9+77R, 19+40L, and 36+20L are hand painted aluminum castings. Sufficient care shall be taken in removal, transport, storage, and reset to avoid damaging supports and markers. If damaged, the Contractor shall replace or repair to the satisfaction of the Engineer. Cost incurred shall be at the Contractor's expense.

The markers at 9+77R and 36+20L are to be reset on the existing U-channel support at the height shown in the typical illustration.

The marker at 19+40L is to be reset on its octagonal extruded aluminum support at the height shown in the typical illustration.

Cost for removal and reset of the historical markers shall be included in the contract unit price per Each for Remove and Reset Historical Marker.

SIGN POSTS

The plan post lengths shall be field verified by the Contractor.

Breakaway anchor perforated tube post lengths listed in the Post Size/ Quantity columns of the SIGN INSTALLATION TABLE include 0.8' (9")/post minimum subgrade length.

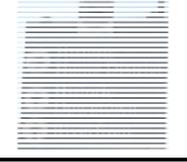
Supports shall be cut to provide the proper sign height where necessary.

Post anchors shall be 48" long. Two-piece anchor post systems are required for 2" perforated tube post anchor stub posts. Heavy duty 7 gauge galvanized steel anchor stub posts that do not require stiffener sleeves are required for 2 1/2" perforated tube post non slip base post installations.

All sign support bases shall conform to Plate number 634.99.

Direct drive perforated tube post lengths listed in the Post Size/ Quantity columns of the Sign Installation table include the minimum 4'/post subgrade length.

SIGN REMOVAL TABLE

SIGN DATA					
STATION	DESCRIPTION	SIGN SIZE Width X Hgt (FT)	SALVAGE TRAFFIC SIGN *	REMOVE AND RESET	REMOVE AND RESET HIST. MARKER
SD 50			110E5020	632E3520	900E0030
15+47 L	DOUGLAS ----- 4th St	1.50X 0.75 1.50X 0.75	1{P}		
16+65 L	VERT ARROW	1.75X 1.25	1{L}		
	TRUCK ROUTE	2.00X 1.50	1{L}		
	SD 50	2.00X 2.00	1{L}		
17+67 R	SPEED LIMIT 30	2.00X 2.50	1{L}		
18+66 R	SPEED LIMIT 30	2.00X 2.50	1{L}		
18+96 L	STOP	2.50X 2.50	1{U}		
19+40 L		3.50X 2.50			1
19+54 R	STOP	2.50X 2.50	1{PT}		
19+63 L	CAPITAL ----- 4th St	1.50X 0.75 1.50X 0.75	1{P}		
		4.00X 4.25	1{2PF}		
23+13 L	STOP	2.50X 2.50	1{U}		
23+66 R	STOP	2.50X 2.50	1{U}		
23+84 L	PINE ST ----- 4th St	1.50X 0.75 1.50X 0.75	1{P}		
	SCHOOL X-ING AHEAD	3.00X 3.00 3.00X 1.67	1{U}		
25+38 L		4.00X 4.25	1{2PF}		
25+75 L	NO PARKING ON PAVEMENT	2.00X 2.50	1{U}		
27+11 R	SCHOOL X-ING ARROW	3.00X 3.00 2.50X 1.50	1{U}		
	SCHOOL X-ING ARROW	3.00X 3.00 2.50X 1.50	1{U}		
27+35 L	STOP	2.50X 2.50	1{U}		
27+86 R	STOP	2.50X 2.50	1{U}		
COLUMN TOTALS			20	0	1

SIGN DATA					
STATION	DESCRIPTION	SIGN SIZE Width X Hgt (FT)	SALVAGE TRAFFIC SIGN *	REMOVE AND RESET	REMOVE AND RESET HIST. MARKER
SD 50			110E5020	632E3520	900E0030
28+07 L	MULBERRY ----- 4th St	1.50X 0.75 1.50X 0.75	1{P}		
30+13 L	SCHOOL X-ING AHEAD	3.00X 3.00 2.50X 1.67	1{U}		
	STOP	2.50X 2.50	1{U}		
31+97 R	STOP	2.50X 2.50	1{U}		
32+10 L	PEARL ----- 4th St	1.50X 0.75 1.50X 0.75	1{P}		
	STOP	2.50X 2.50	1{U}		
35+49 L	STOP	2.50X 2.50	1{U}		
36+03 R	STOP	2.50X 2.50	1{U}		
36+14 L	PICOTTE ----- 4th St	1.50X 0.75 1.50X 0.75	1{P}		
	TRUCK ROUTE SPEED LIMIT 30	2.00X 1.50 2.00X 2.50	1{L}		
36+20 L		2.25X 1.10			1
37+23 L		2.50X 3.00	1{L}		
	SPEED LIMIT 30	2.00X 2.50	1{L}		
37+34 L	NO PARKING ON PAVEMENT	2.00X 2.50	1{U}		
	CRIMESTOPPERS	1.50X 1.00			
37+56 R	LANE USE CONTROL	4.00X 2.50	1{W}		
39+10 R	BURLEIGH ST ----- E 4th St	1.50X 0.75 1.50X 0.75	1{P}		
	NO TRUCKS (SYMBOL) NO THRU TRUCKS	2.00X 2.00 2.00X 2.00	1{U}		
41+90 L	LANE USE CONTROL	4.00X 2.50	1{W}		
43+85 L	TRUCK ROUTE UP ARROW	2.00X 1.50 1.75X 1.25	1{L}		
	384.66	0.38X 1.75			
45+12 R		2.50X 3.00	1{WU}		
	SPEED LIMIT 35	2.00X 2.50	1{WU}		
COLUMN TOTALS			21	0	1
PROJECT TOTALS			78	4	3

* -Number and type-{{U}-Channel {W}ood {L}-Luminaire {P}ipe {PF} Pipe on Footing {2PF} Two Pipe on Footing {PT} Perforated Tube {S} Signal Pole {WU} Wood Utility {2I} Two I-Beam]-of support(s)

SIGN INSTALLATION TABLE

SIGN DATA							POST DATA					FOOTING DATA							
STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (Ft)	SIGN AREA (SqFt)		OFFSET* (R)IGHT/ (L)EFT	SIGN FACES	COMMENTS	POST LENGTHS X		BREAK-AWAY #	SIZE/QUANTITY (Ft)			FOOTINGS (Ft)		FOOTING LENGTHS		
				Type IV	TYPE XI				INSIDE	OUTSIDE		2.0"x2.0" TUBE	2.5"x2.5" TUBE	BREAKAWAY 1.25' DIA.	INSIDE	OUTSIDE			
SD 50/4th				632E3203	632E3205							632E1320	632E1340	632E0010					
4+40 L		M3-4 M1-5 M6-3 M3-4 M1-5 M5-1(R)	2.00X 1.00 2.00X 2.00 1.75X 1.25 2.00X 1.00 2.00X 2.00 1.75X 1.25	2.0 4.0 2.2 2.0 4.0 2.2		1.3' R	EAST EAST EAST EAST EAST EAST	BLOCKOUT REQUIRED	15.5'		A			15.5		4.0		4.0	
5+42 L		SPECIAL M6-1 (R)	2.00X 2.50 1.75X 1.25			1.5' R	EAST EAST	BLOCKOUT REQUIRED INSTALL EXISTING SIGNS ON NEW SUPPORT.	11.6'		A	11.6							
5+82 L		D1-3	9.00X 4.00	36.0		9.5' R	EAST	SUPPORTS TELESCOPED TO BOTTOM OF SIGN	11.0'	11.0'	S			22.0		8.0		4.0	4.0
6+06 L	STOP	R1-1	2.50X 2.50		5.2	1.5' R	NORTH		11.5'		S			11.5		4.0		4.0	
	W 4th St	D3-1	3.58X 1.00	3.6	NORTH														
	W 4th St	D3-1	3.58X 1.00	3.6	SOUTH														
	Cedar St	D3-1	3.42X 1.00	3.5	EAST														
	Cedar St	D3-1	3.42X 1.00	3.5		WEST													
6+67 R	STOP	R1-1	2.50X 2.50		5.2	1.5' R	SOUTH	BLOCKOUT REQUIRED	11.5'		S			11.5		4.0		4.0	
	W 4th St	D3-1	3.58X 1.00	3.6	SOUTH														
	W 4th St	D3-1	3.58X 1.00	3.6	NORTH														
	Cedar St	D3-1	3.42X 1.00	3.5	EAST														
	Cedar St	D3-1	3.42X 1.00	3.5		WEST													
8+08 L	JCT	M2-1	1.75X 1.25	2.2		1.5' R	EAST	COLORED CONCRETE BOULEVARD-BLOCKOUT REQUIRED	13.5'		S			13.5		4.0		4.0	
	81	M1-4	2.00X 2.00	4.0	EAST														
	JCT	M2-1	1.75X 1.25	2.2	EAST														
	52	M1-5	2.00X 2.00	4.0	EAST														
9+77 L		SPECIAL	2.00X 2.50			1.5' R	EAST	COLORED CONCRETE BOULEVARD-BLOCKOUT REQUIRED INSTALL EXISTING SIGNS ON NEW SUPPORT.	11.6'		A	11.6							
		M6-3	1.75X 1.25		EAST														
SHEET TOTALS				93.2	10.4									23.2		74.0		24.0	

* - Distance from edge of shoulder or back of curb to edge of the sign.

- (S)lip Base, (A)nchor Stub Post, or (D)irect Drive

X - Plan post lengths are estimates. The post lengths shall be field verified by the Contractor.

SIGN INSTALLATION TABLE

SIGN DATA							POST DATA					FOOTING DATA						
STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (Ft)	SIGN AREA (SqFt)		OFFSET* (R)IGHT/ (L)EFT	SIGN FACES	COMMENTS	POST LENGTHS X		BREAK-AWAY #	SIZE/QUANTITY (Ft)			FOOTINGS (Ft)		FOOTING LENGTHS	
				Type IV	TYPE XI				INSIDE	OUTSIDE		2.0"x2.0" TUBE	2.5"x2.5" TUBE	1.25' DIA.	BREAKAWAY	INSIDE	OUTSIDE	
SD 50/4th				632E3203	632E3205							632E1320	632E1340	632E0010				
10+27 R	 	R5-2	2.00X 2.00	4.0		1.5' R	NORTH	BLOCKOUT REQUIRED	11.8'	A	11.8							
		R7-203	1.50X 2.00	3.0								NORTH						
10+30 L	STOP	R1-1	2.50X 2.50		5.2	2.3' R	NORTH	BLOCKOUT REQUIRED	11.5'	S			11.5	4.0		4.0		
	W 4th St	D3-1	3.58X 1.00	3.6			NORTH											
	W 4th St	D3-1	3.58X 1.00	3.6			SOUTH											
	Walnut St	D3-1	3.67X 1.00	3.7			EAST											
	Walnut St	D3-1	3.67X 1.00	3.7		WEST												
10+71 R	STOP	R1-1	2.50X 2.50		5.2	1.0' R	SOUTH	BLOCKOUT REQUIRED	11.5'	S			11.5	4.0		4.0		
	W 4th St	D3-1	3.58X 1.00	3.6			SOUTH											
	W 4th St	D3-1	3.58X 1.00	3.6			NORTH											
	Walnut St	D3-1	3.67X 1.00	3.7			EAST											
	Walnut St	D3-1	3.67X 1.00	3.7		WEST												
12+50 L	H(OSPITAL)	D9-2	2.00X 2.00	4.0		2.0' R	EAST	BLOCKOUT REQUIRED	11.1'	A	11.1							
	Directional Arrow	M6-3	1.75X 1.25	2.2			EAST					WHITE ON INTERSTATE BLUE						
14+25 L	Douglas Av	D3-1	8.50X 2.00	17.0			EAST	MAST ARM MOUNTED										
14+52 R	SNOW ROUTE	R7-203	1.50X 2.00	3.0		2.0' R	NORTH	BLOCKOUT REQUIRED	9.8'	A	9.8							
14+64 R	W 4th St	D3-1	7.50X 2.00	15.0			NORTH	MAST ARM MOUNTED										
14+97 L	E 4th St	D3-1	7.50X 2.00	15.0			SOUTH	MAST ARM MOUNTED										
15+41 R	Douglas Av	D3-1	8.50X 2.00	17.0			WEST	MAST ARM MOUNTED										
SHEET TOTALS				109.4	10.4							32.7	23.0	8.0				

* - Distance from edge of shoulder or back of curb to edge of the sign.

- (S)lip Base, (A)nchor Stub Post, or (D)irect Drive

X -Plan post lengths are estimates. The post lengths shall be field verified by the Contractor.

SIGN INSTALLATION TABLE

SIGN DATA						POST DATA				FOOTING DATA								
STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (Ft)	SIGN AREA (SqFt)		OFFSET* (R)IGHT/ (L)EFT	SIGN FACES	COMMENTS	POST LENGTHS X		BREAK-AWAY #	SIZE/QUANTITY (Ft)			FOOTINGS (Ft)		FOOTING LENGTHS	
				Type IV	TYPE XI				INSIDE	OUTSIDE		2.0"x2.0" TUBE	2.5"x2.5" TUBE	BREAKAWAY 1.25' DIA.	INSIDE	OUTSIDE		
SD 50/4th				632E3203	632E3205							632E1320		632E1340		632E0010		
18+96 L	STOP	R1-1	2.50X 2.50		5.2	2.0' R	NORTH		11.5'	S			11.5		4.0		4.0	
	E 4th St	D3-1	3.42X 1.00	3.5	NORTH													
	E 4th St	D3-1	3.42X 1.00	3.5	SOUTH													
	Capital St	D3-1	3.75X 1.00	3.8	EAST													
	Capital St	D3-1	3.75X 1.00	3.8		WEST												
19+53 R	STOP	R1-1	2.50X 2.50		5.2	1.0' R	SOUTH	BLOCKOUT REQUIRED.	11.5'	S			11.5		4.0		4.0	
	E 4th St	D3-1	3.42X 1.00	3.5	SOUTH													
	E 4th St	D3-1	3.42X 1.00	3.5	NORTH													
	Capital St	D3-1	3.75X 1.00	3.8	EAST													
	Capital St	D3-1	3.75X 1.00	3.8		WEST												
23+11 L	STOP	R1-1	2.50X 2.50		5.2	2.0' R	NORTH		11.5'	S			11.5		4.0		4.0	
	E 4th St	D3-1	3.42X 1.00	3.5	NORTH													
	E 4th St	D3-1	3.42X 1.00	3.5	SOUTH													
	Pine St	D3-1	3.00X 1.00	3.0	EAST													
	Pine St	D3-1	3.00X 1.00	3.0		WEST												
23+58 R	STOP	R1-1	2.50X 2.50		5.2	2.0' R	SOUTH		11.5'	S			11.5		4.0		4.0	
	E 4th St	D3-1	3.42X 1.00	3.5	SOUTH													
	E 4th St	D3-1	3.42X 1.00	3.5	NORTH													
	Pine St	D3-1	3.00X 1.00	3.0	EAST													
	Pine St	D3-1	3.00X 1.00	3.0		WEST												
25+25 R	SCHOOL X-ING AHEAD	S1-1 W16-9P	3.00X 3.00 2.00X 1.00		7.0 2.0	1.0' R	WEST WEST	COLORED CONCRETE BOULEVARD-BLOCKOUT REQUIRED	11.8'	A		11.8						
27+09 R	SCHOOL X-ING	S1-1	3.00X 3.00		7.0	1.0' R	WEST	BLOCKOUT REQUIRED.	12.1'	A		12.1						
	LEFT DIAGONAL ARROW	W16-7P	1.75X 1.25	2.2	WEST		NOTE OPTIONAL SIZE.											
27+27 L	SCHOOL X-ING	S1-1	3.00X 3.00		7.0	2.0' R	EAST	BLOCKOUT REQUIRED.	12.1'	A		12.1						
	LEFT DIAGONAL ARROW	W16-7P	1.75X 1.25	2.2	EAST		NOTE OPTIONAL SIZE.											
27+42 L	STOP	R1-1	2.50X 2.50		5.2	2.0' R	NORTH	BLOCKOUT\CORING REQUIRED	11.5'	S			11.5		4.0		4.0	
	E 4th St	D3-1	3.42X 1.00	3.5	NORTH													
	E 4th St	D3-1	3.42X 1.00	3.5	SOUTH													
	Mulberry St	D3-1	4.33X 1.00	4.4	EAST													
	Mulberry St	D3-1	4.33X 1.00	4.4		WEST												
27+81 R	STOP	R1-1	2.50X 2.50		5.2	1.5' R	SOUTH	BLOCKOUT\CORING REQUIRED	11.5'	S			11.5		4.0		4.0	
	E 4th St	D3-1	3.42X 1.00	3.5	SOUTH													
	E 4th St	D3-1	3.42X 1.00	3.5	NORTH													
	Mulberry St	D3-1	4.33X 1.00	4.4	EAST													
	Mulberry St	D3-1	4.33X 1.00	4.4		WEST												
SHEET TOTALS				86.8	58.6							36.0		69.0		24.0		

* - Distance from edge of shoulder or back of curb to edge of the sign.
 # - (S)lip Base, (A)nchor Stub Post, or (D)irect Drive
 X - Plan post lengths are estimates. The post lengths shall be field verified by the Contractor.

SIGN INSTALLATION TABLE

SIGN DATA							POST DATA					FOOTING DATA						
STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (Ft)	SIGN AREA (SqFt)		OFFSET* (R)IGHT/ (L)EFT	SIGN FACES	COMMENTS	POST LENGTHS X		BREAK-AWAY #	SIZE/QUANTITY (Ft)			FOOTINGS (Ft)		FOOTING LENGTHS	
				Type IV	TYPE XI				INSIDE	OUTSIDE		2.0"x2.0" TUBE	2.5"x2.5" TUBE	BREAKAWAY 1.25' DIA.	INSIDE	OUTSIDE		
SD 50/4th												632E0010						
30+10 L	SCHOOL X-ING AHEAD	S1-1 W16-9P	3.00X 3.00 2.00X 1.00	7.0 2.0	1.0' R	WEST WEST	COLORED CONCRETE BOULEVARD-BLOCKOUT REQUIRED	11.8'		A	11.8							
31+46 L	STOP	R1-1	2.50X 2.50	5.2	2.0' R	NORTH		11.5'		S		11.5	4.0		4.0			
	E 4th St	D3-1	3.42X 1.00	3.5		NORTH												
	E 4th St	D3-1	3.42X 1.00	3.5		SOUTH												
	Pearl St	D3-1	3.16X 1.00	3.2		EAST												
31+99 R	STOP	R1-1	2.50X 2.50	5.2	2.0' R	SOUTH		11.5'		S		11.5	4.0		4.0			
	E 4th St	D3-1	3.42X 1.00	3.5		SOUTH												
	E 4th St	D3-1	3.42X 1.00	3.5		NORTH												
	Pearl St	D3-1	3.16X 1.00	3.2		EAST												
35+58 L	STOP	R1-1	2.50X 2.50	5.2	2.0' R	NORTH	BLOCKOUT\CORING REQUIRED	11.5'		S		11.5	4.0		4.0			
	E 4th St	D3-1	3.42X 1.00	3.5		NORTH												
	E 4th St	D3-1	3.42X 1.00	3.5		SOUTH												
	Picotte St	D3-1	3.75X 1.00	3.8		EAST												
36+03 R	STOP	R1-1	2.50X 2.50	5.2	2.0' R	SOUTH		11.5'		S		11.5	4.0		4.0			
	E 4th St	D3-1	3.42X 1.00	3.5		NORTH												
	E 4th St	D3-1	3.42X 1.00	3.5		SOUTH												
	Picotte St	D3-1	3.75X 1.00	3.8		EAST												
39+21 R	E 4th St	D3-1	7.50X 2.00	15.0		NORTH	MAST ARM MOUNTED											
39+51 L	Burleigh St	D3-1	8.50X 2.00	17.0		EAST	MAST ARM MOUNTED											
40+08 R	Burleigh St	D3-1	8.50X 2.00	17.0		WEST	MAST ARM MOUNTED											
40+34 L	E 4th St	D3-1	7.50X 2.00	15.0		NORTH	MAST ARM MOUNTED											
45+50 R	SPEED LIMIT 35	R2-1	2.00X 2.50	5.0	1.5' R	SW		10.3'		A	10.3							
SHEET TOTALS				125.0	29.8						22.1	46.0	16.0					
PROJECT TOTALS				414.4	109.2						114.0	212.0	72.0					

* - Distance from edge of shoulder or back of curb to edge of the sign.
 # - (S)lip Base, (A)nchor Stub Post, or (D)irect Drive
 X -Plan post lengths are estimates. The post lengths shall be field verified by the Contractor.

PLOT SCALE - 1:52,5786

PLOTTED FROM - TRM1IND17

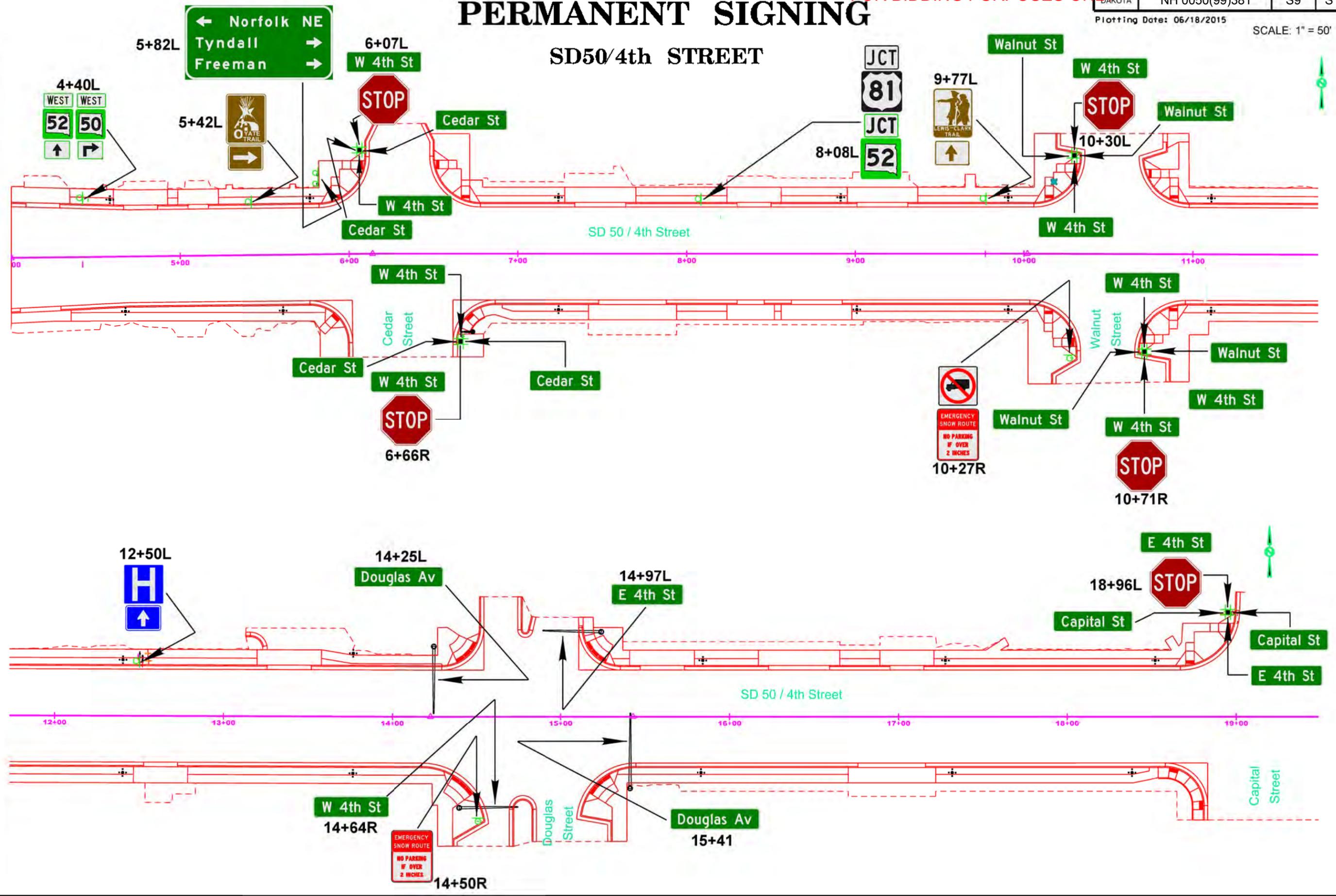
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0050(99)381	SHEET S9	TOTAL SHEETS S18
-----------------------	---------------------------	-------------	---------------------

Plotting Date: 06/18/2015
SCALE: 1" = 50'

PERMANENT SIGNING

SD50/4th STREET



PLOT NAME - 2

FILE - ... \6926 SIGNING CONTAINER.DGN

PERMANENT SIGNING

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S10	S18

Plotting Date: 06/18/2015

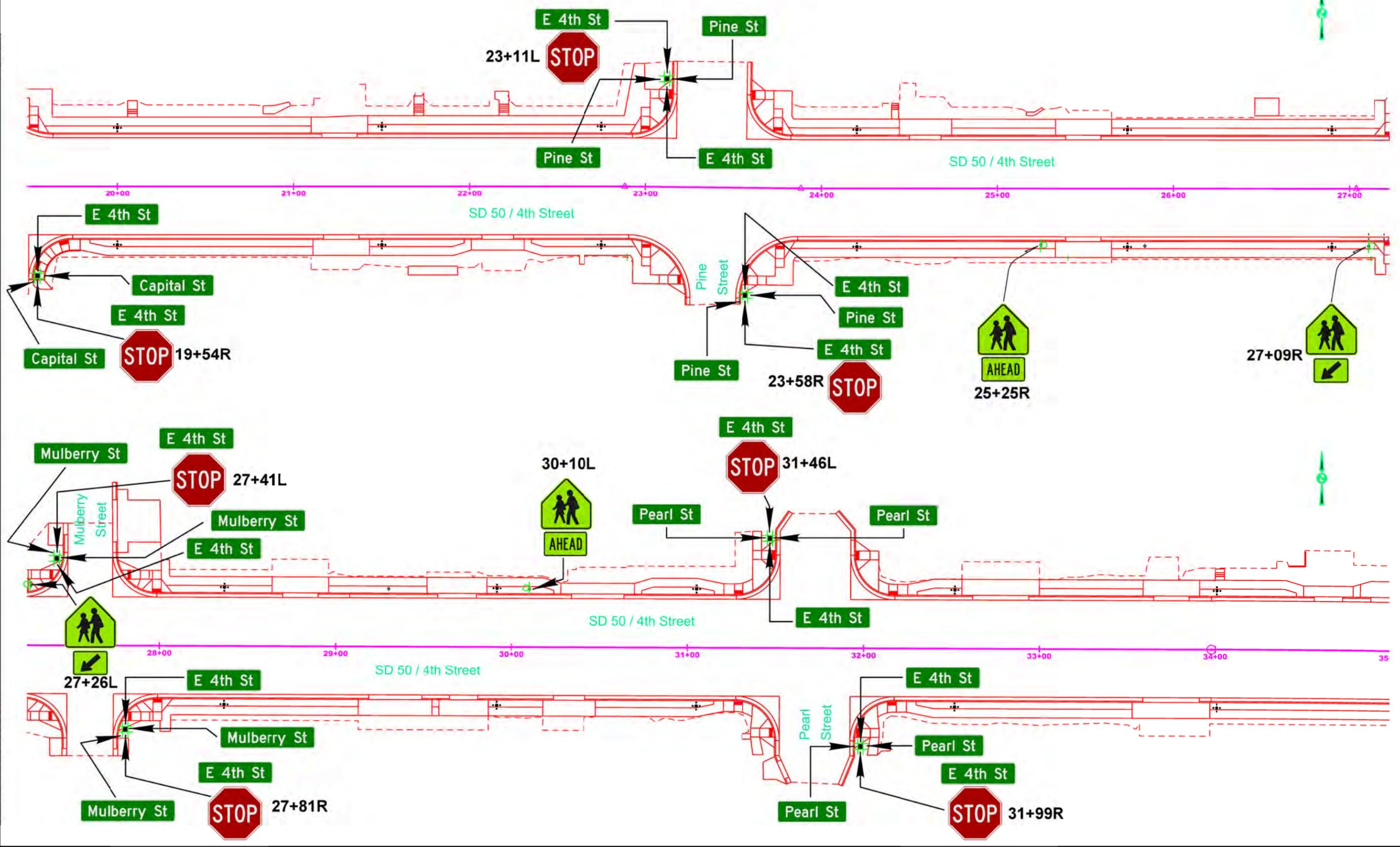
SCALE: 1" = 50'

SD50/4th STREET

PLOT SCALE - J.S.P. 5786

PLOT NAME - 3

FILE - ... \6926 SIGNING CONTAINER.DGN



PLOTTED FROM - ITRM1IND17

PLOT SCALE - 1:52,0258

PLOTTED FROM - ITHUN17

PERMANENT SIGNING

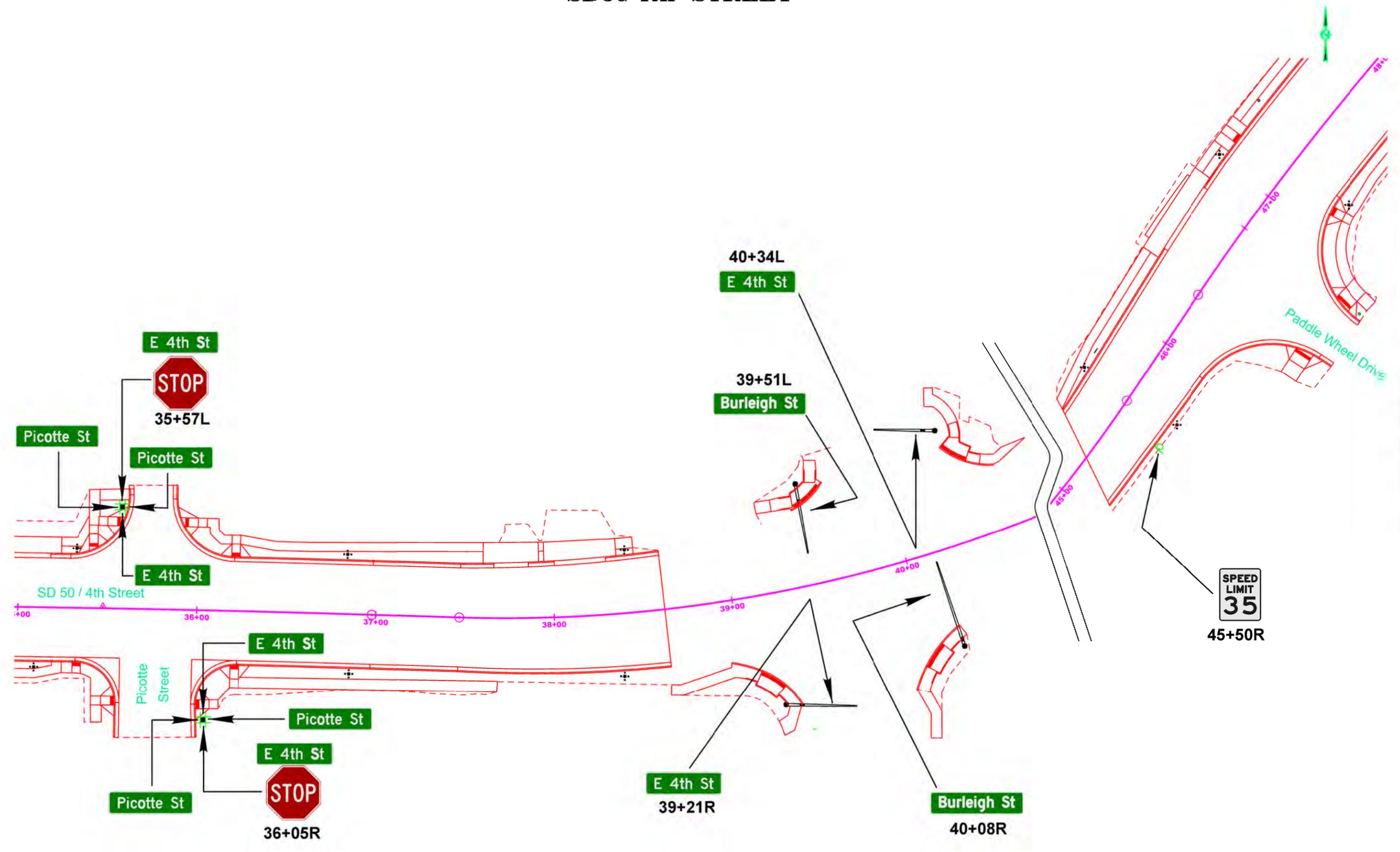
SD50/4th STREET

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S11	S18

Plotting Date: 06/29/2015

SCALE: 1" = 50'



PLOT NAME - 4

FILE - ... \6926 SIGNING CONTAINER.DGN

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S12	S18

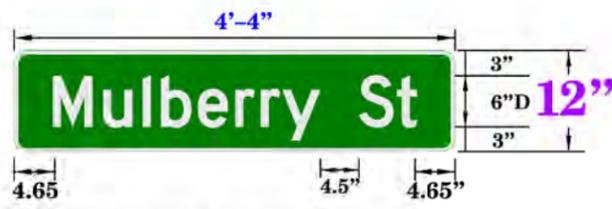
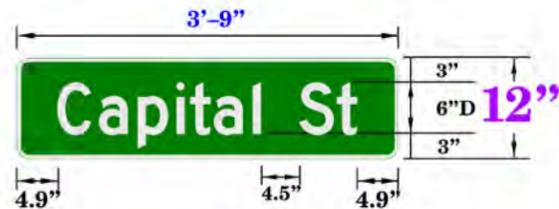
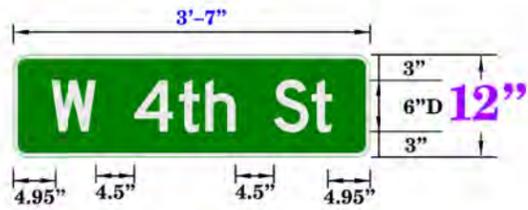
Plotting Date: 06/30/2015

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY-HIGH INTENSITY

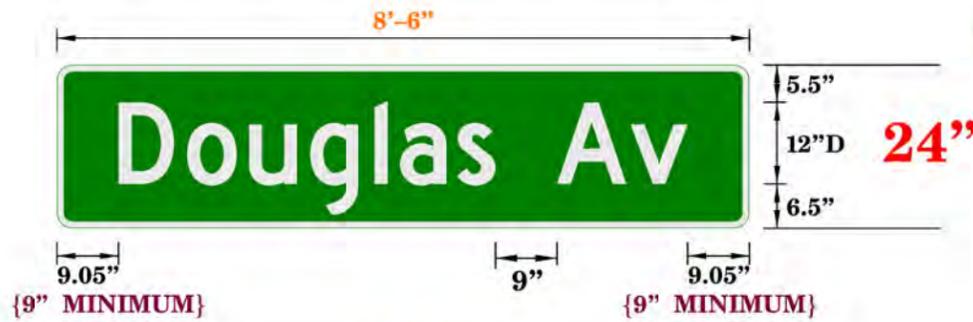
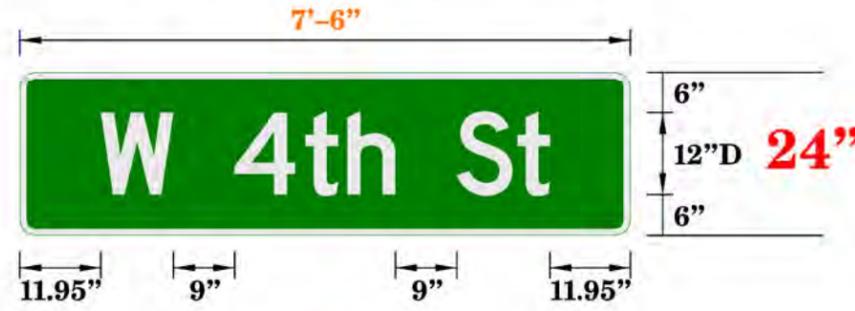
PLOT SCALE - 1/11-79489

PLOT NAME - 5

FILE - ... \6926 SIGNING CONTAINER.DGN



WIDTH X HEIGHT	VARIABLE X 12"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
LEGEND	6"D
BACKGROUND	TYPE: HIGH INTENSITY COLOR: GREEN
LEGEND\BORDER	TYPE: HIGH INTENSITY COLOR: WHITE



WIDTH X HEIGHT	VARIABLE X 24"
BORDER WIDTH	1.0"
CORNER RADIUS	2.25"
LEGEND	12"D
BACKGROUND	TYPE: HIGH INTENSITY COLOR: GREEN
LEGEND\BORDER	TYPE: HIGH INTENSITY COLOR: WHITE



SIGN NUMBER	SPECIAL
WIDTH X HEIGHT	9'-0" X 4'-0"
BORDER WIDTH	1.75"
CORNER RADIUS	5.0"
LEGEND	8"EM
BACKGROUND	TYPE: HIGH INTENSITY COLOR: GREEN
LEGEND/BORDER	TYPE: HIGH INTENSITY COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARUP, 90°	8	34	8	12
ARUP, 270°	88	20	8	12
ARUP, 270°	88	6	8	12

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S13	S18

Plotting Date: 06/18/2015

SIGN INSTALLATIONS

Blind Aluminum Rivet with Aluminum Sleeve Mandrel & Aluminum Tubular Component (or Engineer approved Fastener)



TYPICAL STOP SIGN WITH STREET SIGNS ASSEMBLY

PLOT SCALE - 1:2.47123

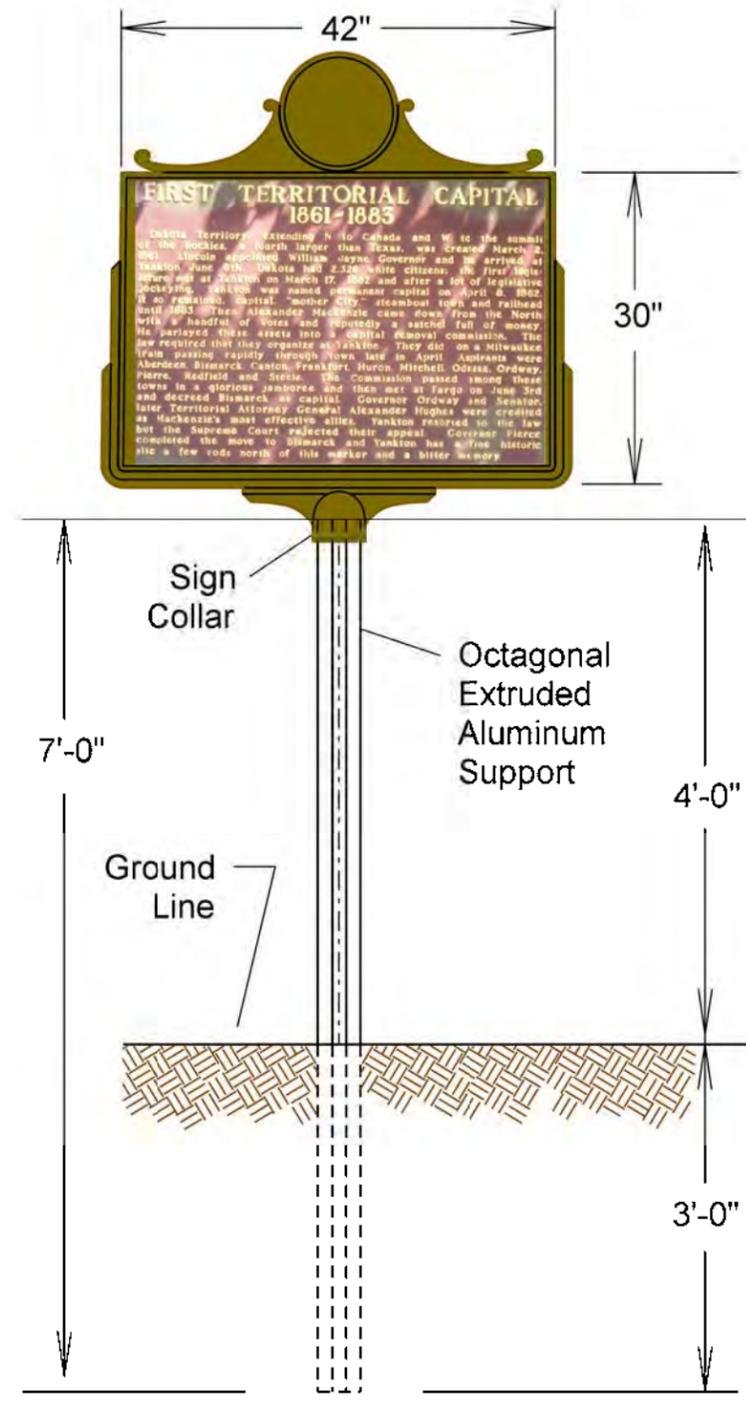
PLOTTED FROM - ITRHINT17

PLOT NAME - 6

FILE - ... \6926 SIGNING CONTAINER.DGN

PLOT SCALE - 1:206.452

PLOTTED FROM - ITRHIND17



NOTE:

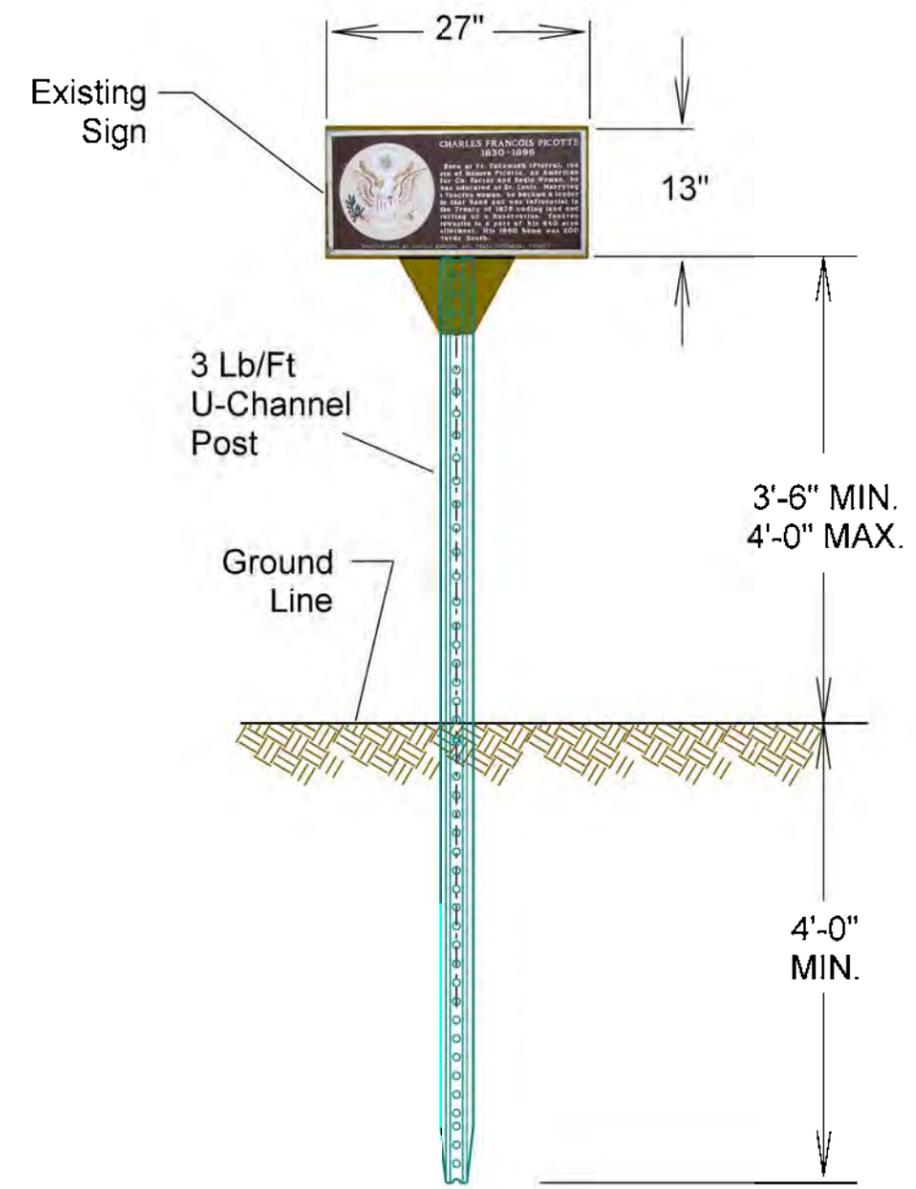
The Historical Marker collar bolts shall be securely tightened to the post with the sign face at a 90° angle to centerline.

HISTORICAL MARKER INSTALLATION
Octagonal Extruded Aluminum Support
(Typical)

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S14	S18

Plotting Date: 06/18/2015



HISTORICAL MARKER INSTALLATION
U-CHANNEL SUPPORT
(Typical)

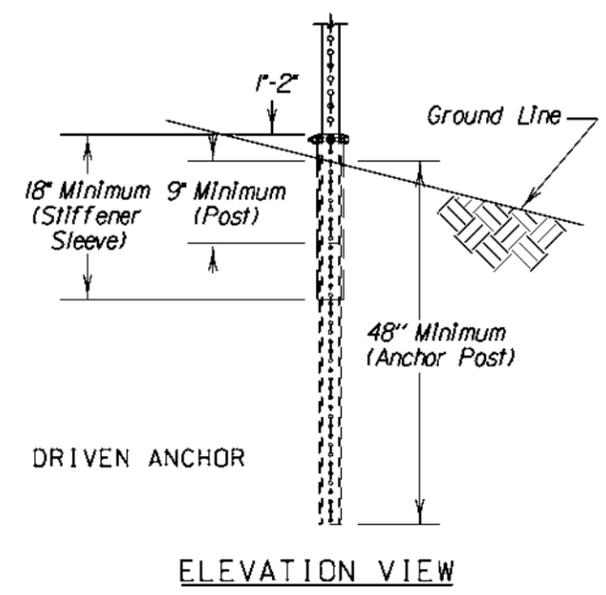
PLOT NAME - 7

FILE - ... \6926 SIGNING CONTAINER.DGN

PLOT SCALE - 1:206.452

PLOT NAME - B

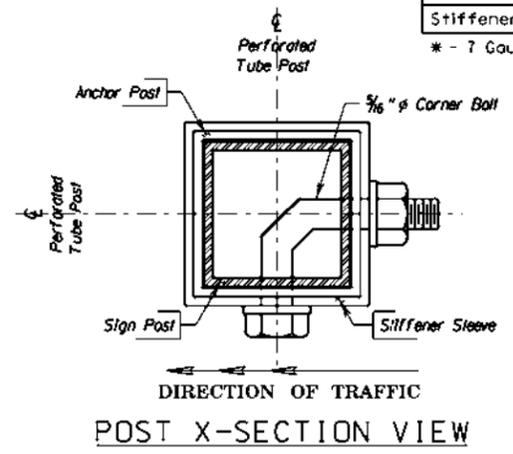
FILE - ... \6926 SIGNING CONTAINER.DGN



ELEVATION VIEW

POST SIZES		
Sign Post	2"	2 1/4"
Anchor Post	2 1/4"	2 1/2"
Stiffener Sleeve	2 1/2"	* 3"

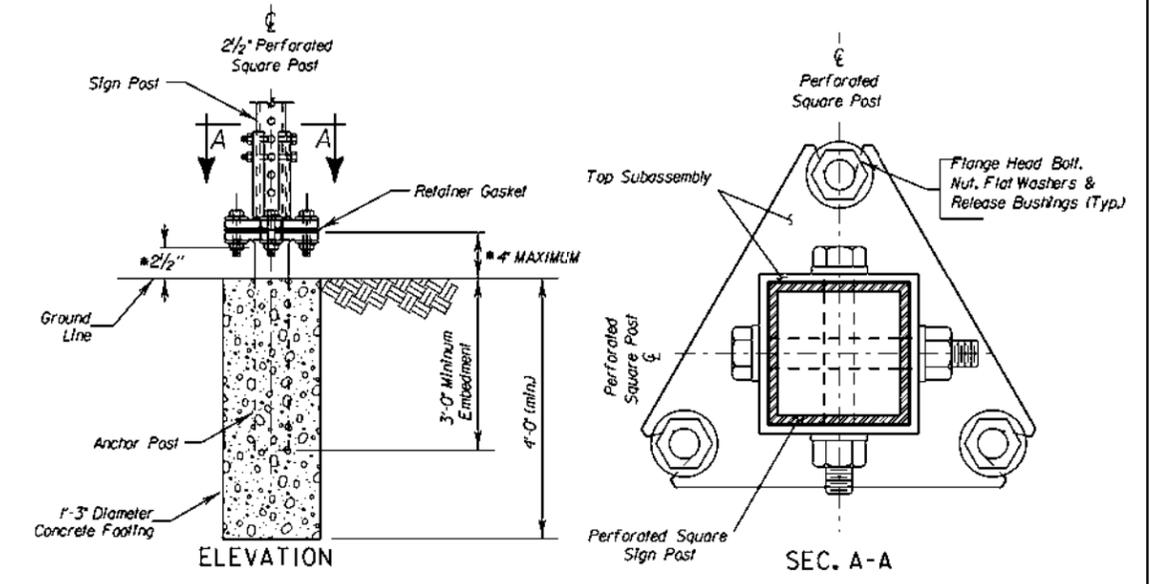
* - 7 Gauge Steel



POST X-SECTION VIEW

NOTE:
Perforated tube post with breakaway anchor base shall be galvanized 12 gauge steel unless otherwise specified in the plans. Sign installations must meet or exceed NCHRP 350 or MASH breakaway requirements and be FHWA approved.

PERFORATED TUBE POST
BREAKAWAY TWO-PIECE ANCHOR BASE DETAILS
(Typical)



ELEVATION

SEC. A-A

* - Dimensions shown may vary by Manufacturer. The Contractor shall use Manufacturer recommended assembly parts and procedures. Sign installations must meet NCHRP 350 or MASH breakaway requirements and be FHWA approved.

GENERAL NOTES-

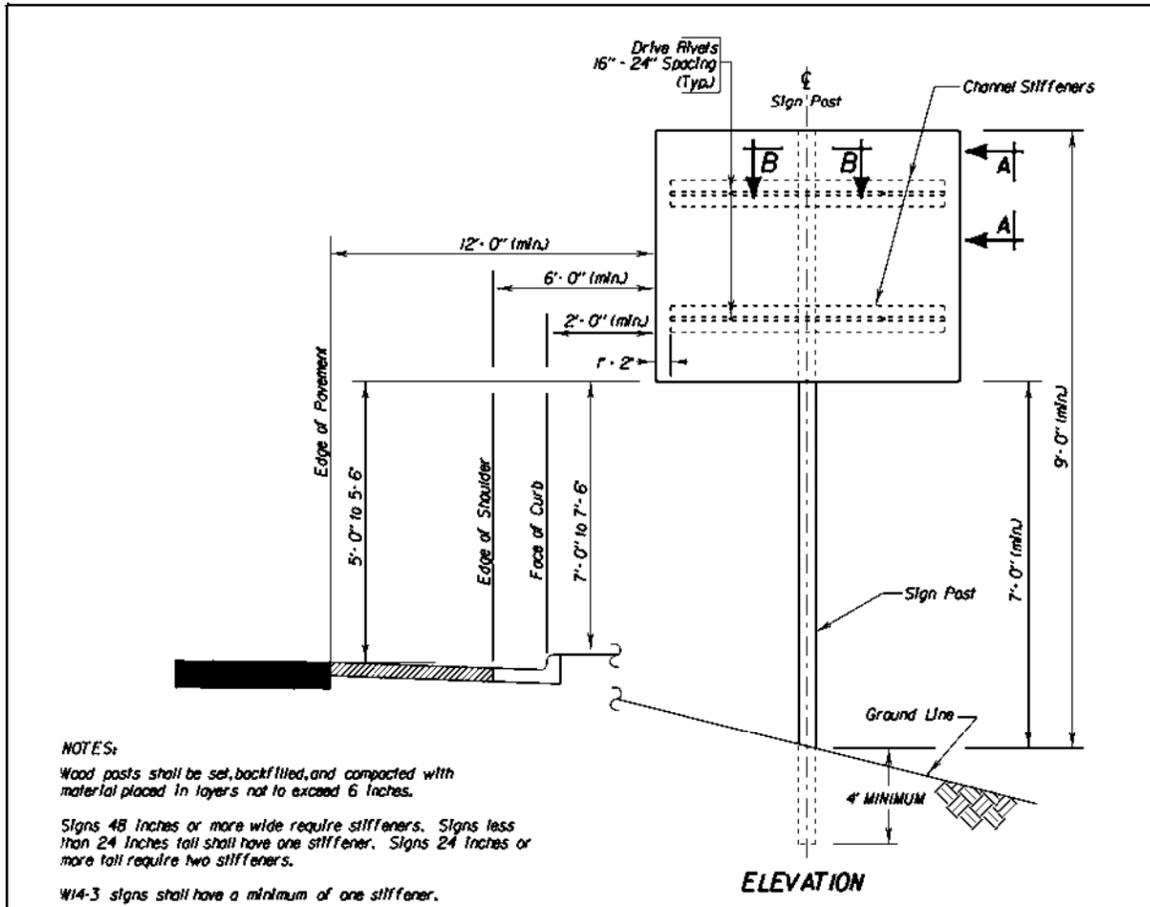
1. Design Specification: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals, 4th Edition, with 2002, 2003, and 2004 Interims.
2. The manufacturer shall provide certification that the posts and hardware furnished have essential the same chemistry, mechanical properties and geometry as those used in the FHWA tests and will meet the FHWA change in velocity requirements.
3. The manufacturer shall 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 shall be galvanized in accordance with ASTM A653, Des. G-90.
5. All hardware shall be galvanized in accordance with ASTM A153.

SINGLE PERFORATED TUBE POST BREAKAWAY SUPPORT WITH SLIPBASE
AND CONCRETE FOOTING
(Typical)

PLOT SCALE - 1:206.452

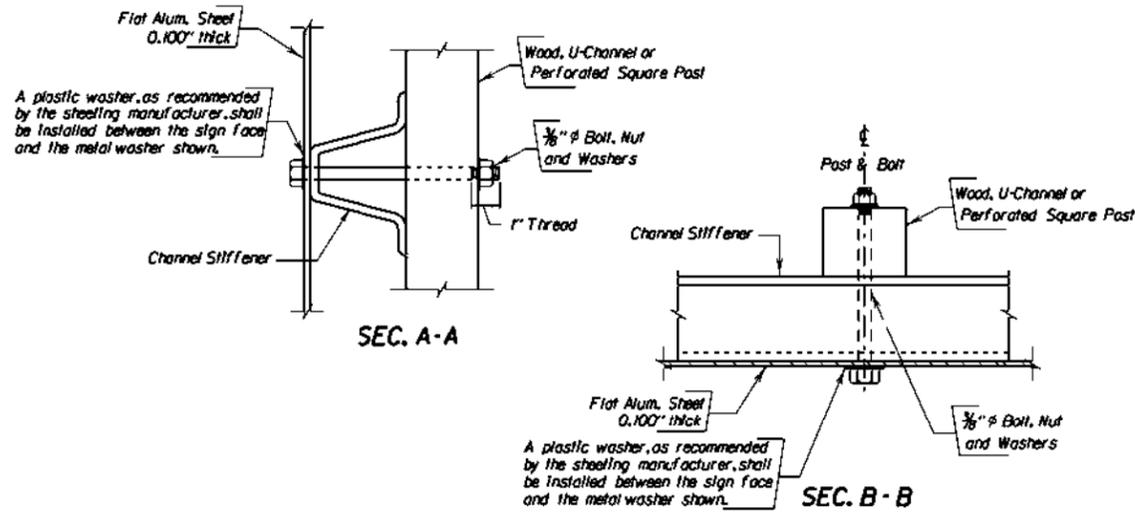
PLOT NAME - 9

FILE - ... 16926 SIGNING CONTAINER.DGN

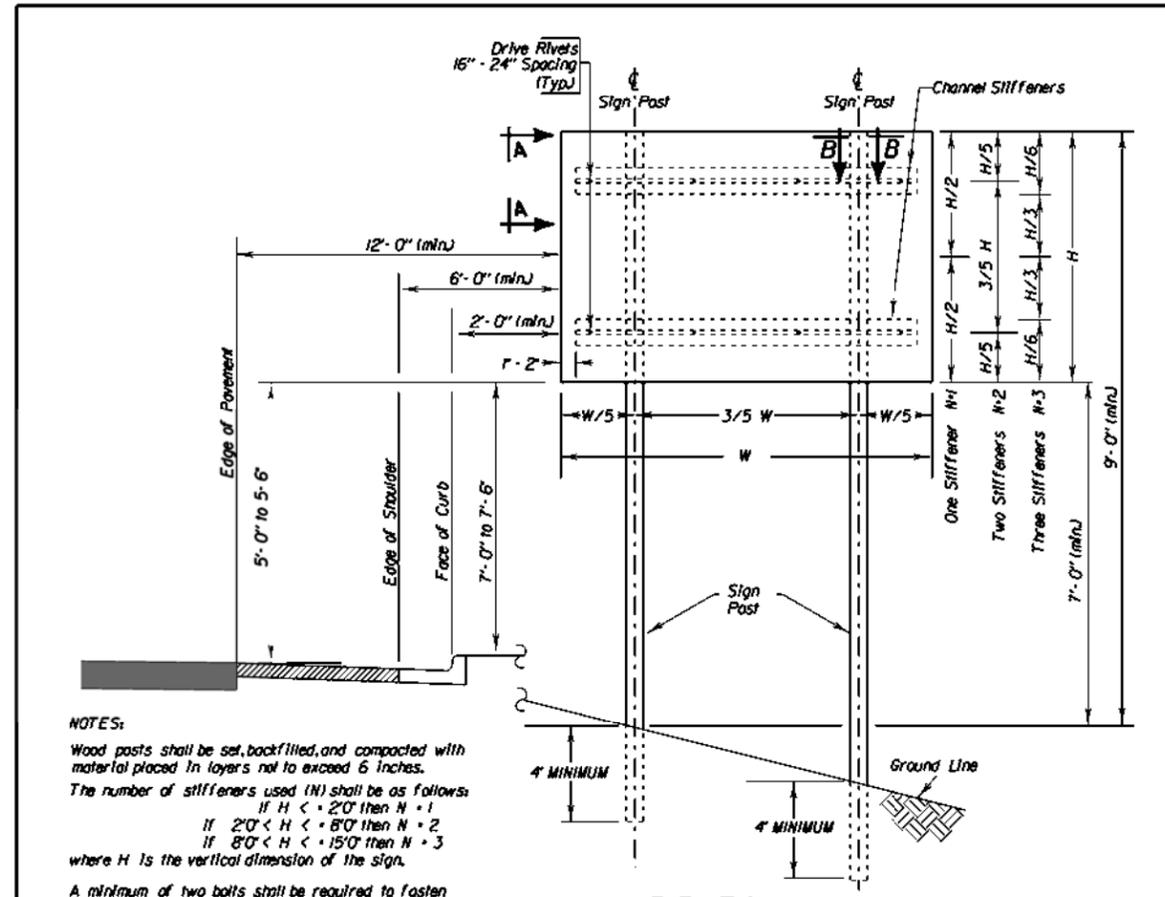


NOTES:
 Wood posts shall be set, backfilled, and compacted with material placed in layers not to exceed 6 inches.
 Signs 48 inches or more wide require stiffeners. Signs less than 24 inches tall shall have one stiffener. Signs 24 inches or more tall require two stiffeners.
 W14-3 signs shall have a minimum of one stiffener.

ELEVATION

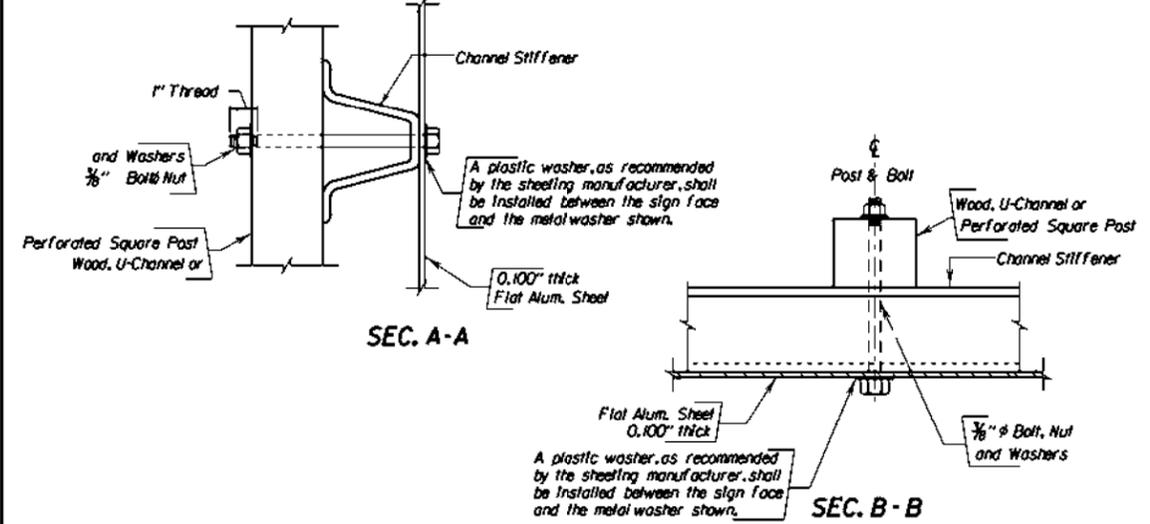


SINGLE POST BREAKAWAY SIGN SUPPORT
 (Typical Sign and Stiffener Details)



NOTES:
 Wood posts shall be set, backfilled, and compacted with material placed in layers not to exceed 6 inches.
 The number of stiffeners used (N) shall be as follows:
 If $H < 2'0''$ then $N = 1$
 If $2'0'' < H < 8'0''$ then $N = 2$
 If $8'0'' < H < 15'0''$ then $N = 3$
 where H is the vertical dimension of the sign.
 A minimum of two bolts shall be required to fasten the sign to each post.

ELEVATION



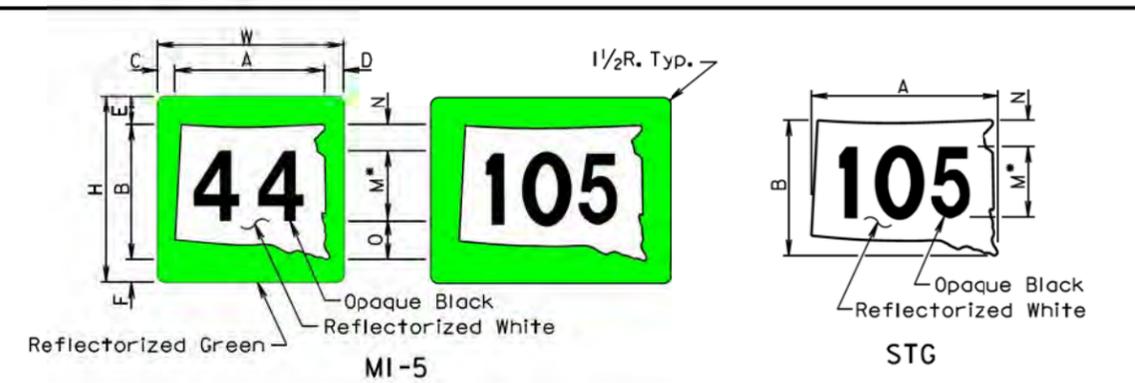
TWO POST BREAKAWAY SIGN SUPPORTS
 (Typical Sign and Stiffener Details)

PLOTTED FROM - ITRH1UN17

PLOT SCALE - 1:206.452

PLOT NAME - 10

FILE - ... \6926 SIGNING CONTAINER.DGN

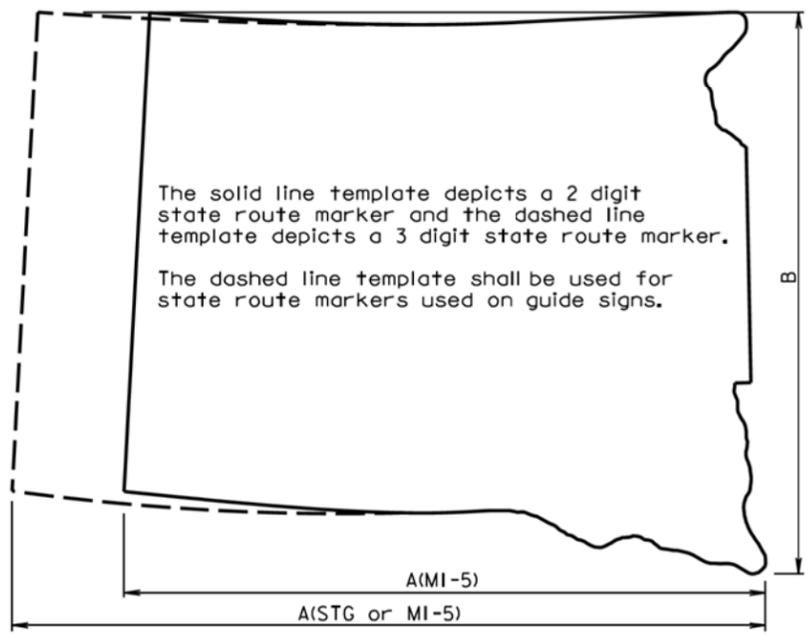


SIGN CODE	WxH	A	B	C	D	E	F	M*	N	O
MI-5	24x24	20 1/2	18	2	1 1/2	3 1/2	2 1/2	12D	2	4
MI-5**	30x24	24	18	2 1/4	1 3/4	3 1/2	2 1/2	12D	2	4
MI-5	30x30	25 5/8	22 1/2	2 1/2	1 7/8	4 3/8	3 1/8	15D	2 1/2	5
MI-5	36x36	30 3/4	27	3	2 1/4	5 1/4	3 3/4	18D	3	6

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 shall be "D" series font for all state route markers except as noted above.

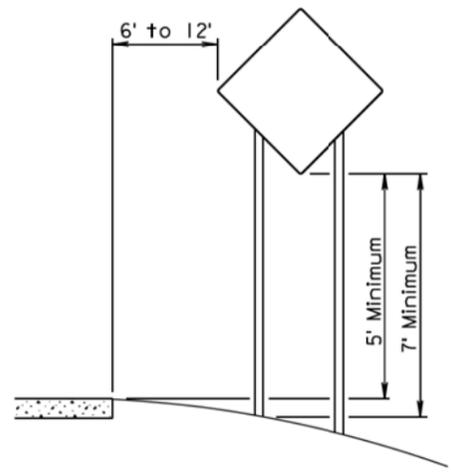
December 23, 2003

Published Date: 2nd Qtr. 2015	S D D O T	STATE ROUTE MARKERS	PLATE NUMBER 632.20
			Sheet 1 of 1

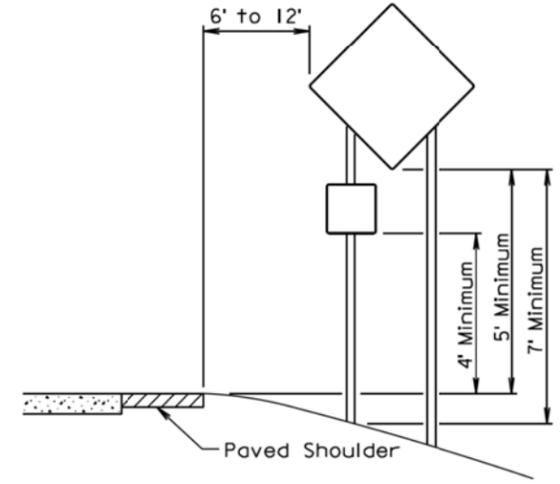
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0050(99)381	S18	S18

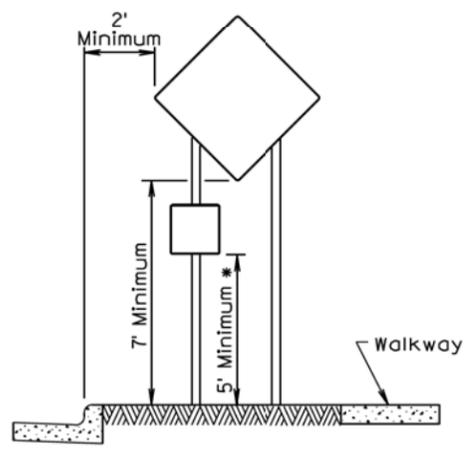
Plotting Date: 06/18/2015



RURAL DISTRICT

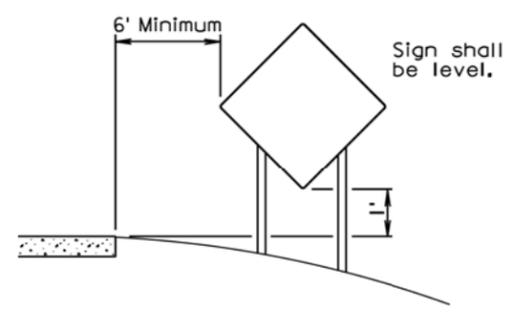


RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT

* 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.

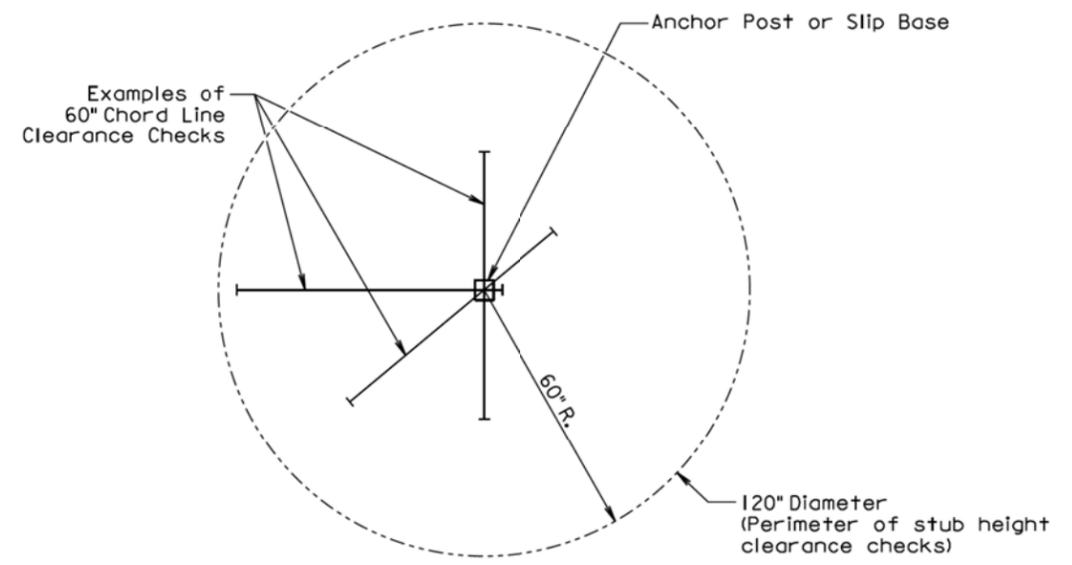


RURAL DISTRICT 3 DAY MAXIMUM

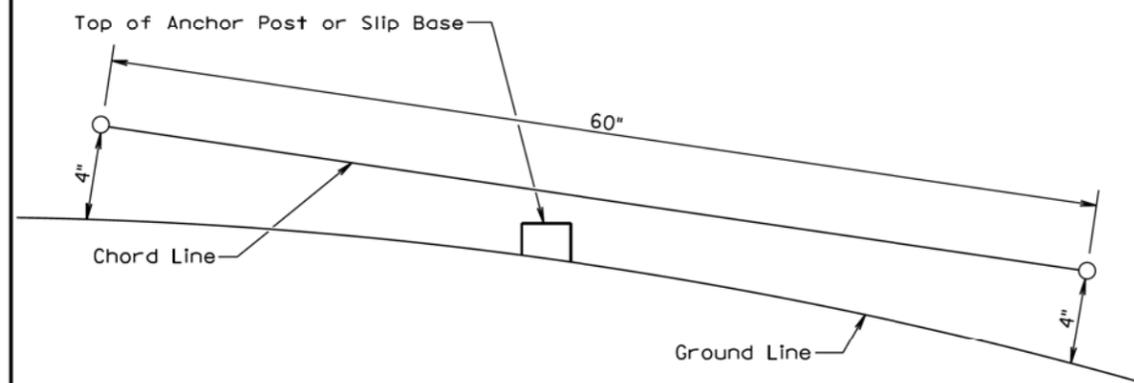
(Not applicable to regulatory signs)

September 22, 2014

Published Date: 2nd Qtr. 2015	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 SHALL 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 shall 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.

July 1, 2005

Published Date: 2nd Qtr. 2015	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1

PLOT SCALE - 1:206.452

PLOTTED FROM - TRM11117

PLOT NAME - 11

FILE - ... \6926 SIGNING CONTAINER.DGN