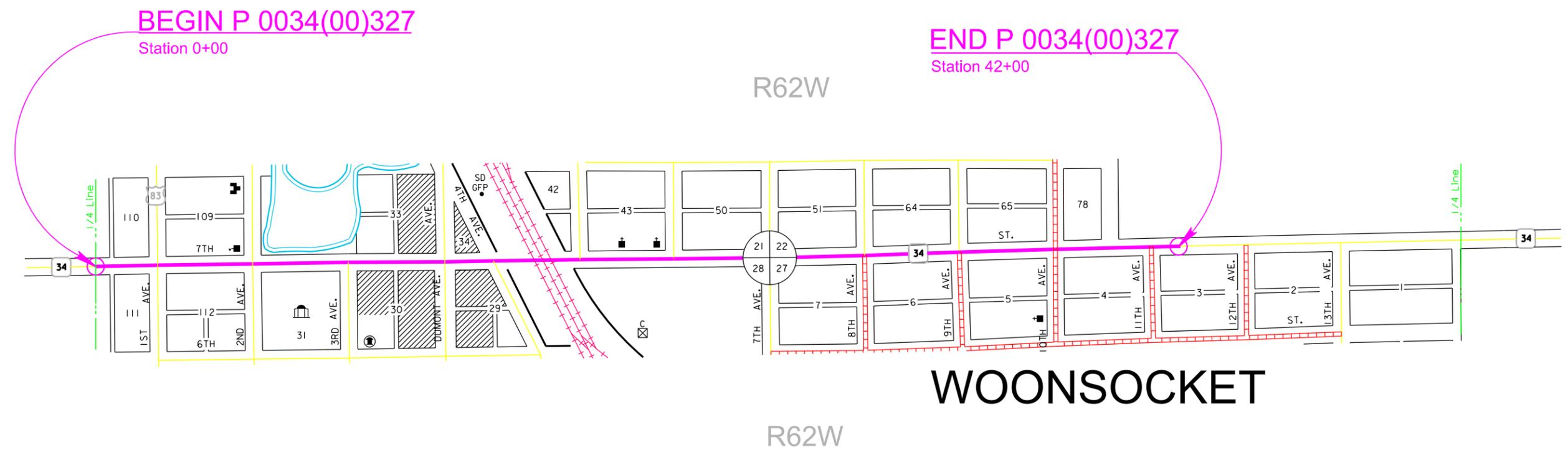


# Section S: Permanent Signing Plans

## INDEX OF SHEETS

- S1 General Layout w/ Index
- S2 to S8 Estimate with Permanent Signing Notes & Tables
- S9 to S12 Permanent Signing Layouts
- S13 Sign Face Layouts
- S14 Urban Street and Rural Address Signing Installation Details
- S15 Installation Details for Signs Adjacent to Sidewalks
- S16 to S17 Erection Details for Breakaway Sign Supports



Plot Scale - \$\$scale\$\$

Plotted From - \$\$username\$\$

File - \$\$filename\$\$

## SECTION S ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
110E0130	Remove Traffic Sign	42	Each
632E0010	1.25' Diameter Breakaway Support Concrete Footing	84.0	Ft
632E1320	2.0"x2.0" Perforated Tube Post	9.0	Ft
632E1330	2.25"x2.25" Perforated Tube Post	45.2	Ft
632E1340	2.5"x2.5" Perforated Tube Post	297.8	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	285.0	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	188.9	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	1	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:

- Existing permanent signs.
- Existing sign posts.
- Concrete sign footings.

### B. Items to be furnished and installed by the Contractor:

- Breakaway sign support concrete footings.
- Breakaway steel post sign supports.
- Flat sheet aluminum signs.
- Concrete sidewalk and asphalt surface repair.
- Landscaping and reseeding.

## SIGN NUMBERING CONVENTION

All sign removals and new installations in these plans are numbered with prefixes that correspond to the following general locations:

SD Hwy 34 Signs and Stationing:  
SD-1XX

SD Hwy 34 Sign Removals and Stationing:  
RM-2XX

## REMOVAL AND SALVAGE OF EXISTING SIGNS

### 1. Removal and Salvage of Existing Signs:

The Contractor shall remove and salvage the existing signs listed in the Sign Removal Tables. Stationing shown is approximate. The signs are flat aluminum signs with nonremovable copy.

#### Flat Aluminum Signs

For single post sign assemblies, the Contractor may remove and salvage the flat aluminum sign(s), post, and footing (if present), as one unit. For multiple post assemblies, the Contractor shall remove the sign(s) first, and remove the posts and footings (if present), separate.

### 2. Miscellaneous Sign Related Items:

The Contractor shall separate signs from supports prior to stockpiling. Salvaged signs shall be neatly stockpiled. Salvaged mounting hardware shall be returned to the SDDOT.

Salvaged posts, signs, sign materials and overlays shall be returned to the SDDOT Woonsocket Maintenance Yard at 203 S. 13th Ave., Woonsocket, SD 57385-2224. Stockpiling of salvaged material shall be coordinated with the Project Engineer.

All nuts, bolts, and miscellaneous mounting hardware salvaged from existing signs shall not be reused.

### 3. Payment for Sign Related Work:

Cost to break down or remove existing sign concrete footings or sign post anchors in sidewalks and asphalt surfaces and to repair concrete sidewalk or asphalt surfacing where signs have been removed shall be incidental to the various contract sign removal items.

The cost for removal and salvage flat aluminum sign assemblies, including posts and footings, miscellaneous hardware, landscaping and reseeding, shall be incidental to the contract unit price per each for Remove Traffic Sign.

## SIGN LEGEND, BORDER AND BACKGROUND

All sign materials shall comply with Section 982 of the Standard Specifications. All flat aluminum signs shall be 0.100" sheet aluminum.

All sign legend, border and background sheeting material shall meet or exceed standards for ASTM D 4956 classified Type IV high intensity prismatic sheeting or Type XI very high intensity microprismatic sheeting, as indicated in the plans.

All sign sheeting shall conform to AASHTO DESIGNATION:M 268.

## SIGN POSTS

The plan post lengths shall be field verified by the Contractor prior to installation. Wood post and direct drive post lengths listed in the Post Sizes and Quantities section of the Sign Installation tables include 3 or 4 ft./post buried length, and shall be cut to the proper sign height where necessary.

2", 2 ¼" and 2 ½" square perforated tube post shall be fabricated from 12 gauge or 10 gauge galvanized steel. Anchor posts shall be 4 ft in length. Two-piece anchor post systems are required for 2" and 2 ¼" square steel 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 ½" square steel perforated tube post non slip base post installations. Sign wedges or anchor wings are required where indicated in the plans.

The Contractor shall provide block-outs or shall core holes 6"- 9" in diameter, or as specified by the Engineer, in concrete where sign posts without footings are to be installed. The Contractor shall backfill each hole with cold mix asphalt concrete after the sign post has been installed, to the satisfaction of the Engineer.

The inner post length on telescoped sign post installations shall be in accordance with manufacturer recommendations.

All breakaway sign supports shall comply with FHWA NCHRP 350 crash-worthy requirements.

The cost for sign supports shall be included in the respective contract unit price per foot for the post and footing size indicated.

The cost for telescoped reinforced square steel perforated tube posts and anchor stub posts shall be incidental to the respective contract unit price per foot for the post size indicated, and are not included in the Estimate of Quantities.

The cost for concrete block-outs and coring shall be incidental to the contract unit price per foot for the sign post indicated.

## UTILITIES

Underground utilities may be in place near some sign locations. The Contractor is responsible for SD One Call location of utilities.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	S3	S17

**CONCRETE SIGN FOOTINGS (Class M6)**

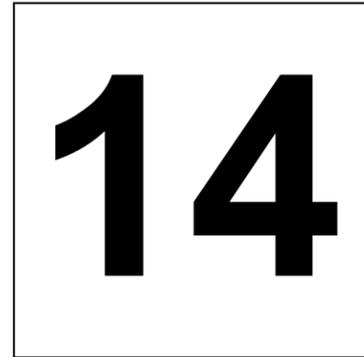
Footings for breakaway signs shall be below ground as shown on the footing details and need not be formed.

New concrete footings shall be installed a minimum of 10 ft from old footings greater than 4 ft in depth that have been completely removed, or 5 ft from old footings 4 ft or less in depth that have been completely removed or have been broken down approximately 1 ft below ground level. The Contractor may adjust new footing locations to comply with the indicated minimum distances if lateral plan offset is maintained, with the approval of the Engineer.

Extreme care should be used to make certain that the footings are constructed in accordance with the plan sheets, and the finished ground line at all footings are per the details shown on the plan sheets. Breakaway footings in lawn areas shall be covered with soil, level with surrounding terrain and seeded. Disturbed areas within the grading project limits shall be seeded in accordance with Section D – Erosion Control Plans. Disturbed areas outside the grading project limits shall be seeded to the satisfaction of the Engineer. The cost of seeding outside the grading project limits shall be incidental to the contract unit price per foot for the various Concrete Footing items.

**DATE DECALS**

The Contractor shall furnish and affix a date decal to each new sign installed. Date decals shall be self-adhesive weather resistant stickers with removable paper backing, approximately 2" X 2" in size. The date decal shall display the last two digits of the year the sign was manufactured (as illustrated) with black numerals on a white background.



One decal shall be placed in the extreme lower left corner of the front of each extruded aluminum panel sign, or the extreme lower left corner of the back of each flat aluminum sign.

Sign supports or other obstructions shall not block the view of the date decal upon completion of the sign installation.

All costs for furnishing and installing of date decals on new signs shall be incidental to the contract unit price for the various signing bid items.

**ACCEPTANCE OF SIGN INSTALLATIONS**

Final acceptance of completed signs will be considered on a sign by sign basis in accordance with Section 5.16 of the Standard Specifications.

**STREET SIGNS**

The Contractor shall remove existing street signs and posts, as indicated in the plans. Street signs and posts with street signs only mounted on them shall be returned to the City of Woonsocket.

Post length quantities for Stop signs with street signs attached include an additional 27" of length to enable the attachment of street signs above the Stop signs.

City of Woonsocket contact information:

City of Woonsocket  
 PO Box 456  
 Woonsocket SD  
 57385-0456  
 (605) 796-4112

## PERMANENT SIGNING TABLE

SIGN DATA							POST DATA						FOOTING DATA		REMOVAL DATA		DESCRIPTION			
SIGN #	STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (FT)	SIGN AREA (SQ FT)		OFFSET* RIGHT/LEFT OVERHEAD	POST LENGTHS (ABOVE GROUND)		FIXED or BREAK- AWAY**	(N)EW or (R)EUSE POST	POST SIZES AND QTY (FT)			1'-3" DIA BREAKAWAY (FT)	FOOTING LENGTH(S)		REMOVE TRAFFIC SIGN	REMOVE, SALVAGE & RESET SIGN	
					FA	DG		INSIDE	OUTSIDE			IN	OUT	2" SQ. STEEL						2 1/4" SQ. STEEL
<b>SD 34 / 7th Street</b>																				
SD - 101	2+30 R		S1-1	3 X 3		9.0	2' R	11'-03"	A	N		11.3						REMOVE AND SALVAGE EXISTING SIGNS AND STEEL SUPPORT. INSTALL NEW SIGNS AND SUPPORT ASSEMBLY.		
RM - 201			W16-7P	2.5 X 1.5		3.8													1	
RM - 202	2+50 R		D3-1	2 X 0.5														1	REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.	
			D3-1	2 X 0.5																
SD - 102	2+50 L		D3-1	2.5 X 1	5.0		2' R	11'-09"	S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.		
			D3-1	2.5 X 1	5.0															
RM - 203			R1-1	2.5 X 2.5		6.3														1
SD - 103	2+95 R		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.		
			D3-1	2 X 1	4.0															
RM - 204			R1-1	2.5 X 2.5		6.3														1
SD - 104	3+10 L		S1-1	3 X 3		9.0	3'-06" R	11'-03"	A	N		11.3						REMOVE AND SALVAGE EXISTING SIGNS AND WOOD SUPPORT. INSTALL NEW SIGNS AND SUPPORT ASSEMBLY.		
RM - 205			W16-7P	2.5 X 1.5		3.8														1
SD - 105	5+95 R		S1-1	3 X 3		9.0	3'-06" R	11'-03"	A	N		11.3						REMOVE AND SALVAGE EXISTING SIGNS AND STEEL SUPPORT. INSTALL NEW SIGNS AND SUPPORT ASSEMBLY.		
RM - 206			W16-7P	2.5 X 1.5		3.8														1
SD - 106	6+05 L		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY. DO NOT REINSTALL "DARE" SIGN.		
			D3-1	2.5 X 1	5.0															
RM - 207			R1-1	2.5 X 2.5		6.3														1
			DARE SIGN	1 X 1.5																
RM - 208	6+15 R		D3-1	2 X 0.5														1	REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.	
			D3-1	2 X 0.5																
SD - 107	6+65 R		D3-1	2.5 X 1	5.0		2' R	11'-09"	S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.		
			D3-1	2.5 X 1	5.0															
RM - 209			R1-1	2.5 X 2.5		6.3														1
			R1-1	2.5 X 2.5																
<b>TOTALS THIS SHEET</b>						39.0	63.6						0.0	33.9	47.2	16.0		9	0	

\* - Distance from White or Yellow Edgeline, or Back of Curb, to Edge of Sign.

\*\* - (F)ixed Base, or Breakaway (S)lip Base, (A)nchor Stub Post, (D)irect drive, or (W)ood Post.

EA = Extruded Aluminum Panel Signs w/Removable Copy

FA = Flat Aluminum Signs w/Non-Removable Copy - High Intensity Sheeting

DG = Flat Aluminum Signs w/Nonremovable Copy - Fluorescent Super/Very High Intensity Sheeting

## PERMANENT SIGNING TABLE

SIGN DATA										POST DATA					FOOTING DATA		REMOVAL DATA			DESCRIPTION
SIGN #	STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (FT)	SIGN AREA (SQ FT)		OFFSET* RIGHT/LEFT OVERHEAD	POST LENGTHS (ABOVE GROUND)		FIXED or BREAKAWAY**	(N)EW or (R)EUSE POST	POST SIZES AND QTY (FT)			1'-3" DIA BREAKAWAY (FT)	FOOTING LENGTH(S)	REMOVE TRAFFIC SIGN	REMOVE, SALVAGE & RESET SIGN		
					FA	DG		INSIDE	OUTSIDE			IN	OUT	632E1320					632E1330	
<b>SD 34 / 7th Street</b>																				
SD - 108	6+80 L		S1-1	3 X 3		9.0	3'-06" R	11'-03"	A	N		11.3							REMOVE AND SALVAGE EXISTING SIGNS AND STEEL SUPPORT. INSTALL NEW SIGNS AND SUPPORT ASSEMBLY.	
RM - 210			W16-7P	2.5 X 1.5		3.8														
RM - 211	6+15 R		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.	
SD - 109	10+25 R	 	D3-1	2.5 X 1	5.0		2' R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
RM - 212			D3-1	2.5 X 1	5.0												1			
RM - 213	10+40 R		R8-3a	2 X 2.5													1		REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT. INSTALL NEW SIGN AND SUPPORT ASSEMBLY.	
SD - 110	10+50 R		R8-3	2 X 2	4.0		4' R	9'-00"	A	N	9.0									
RM - 214	13+45 L		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING UTILITY POLE MOUNTED STREET SIGNS AND SUPPORT BRACKETS.	
SD - 111	13+45 L	 	D3-1	2.5 X 1	5.0		2' R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT, REPAIR SIDEWALK IF NECESSARY. CORE SIDEWALK AS NECESSARY AND INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
RM - 215			D3-1	4 X 1	8.0												1			
SD - 112	14+10 R	 	D3-1	2.5 X 1	5.0		2' R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT, REPAIR SIDEWALK IF NECESSARY. CORE SIDEWALK AND INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
RM - 216			D3-1	4 X 1	8.0												1			
RM - 217	16+15 R		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING UTILITY POLE MOUNTED STREET SIGNS AND SUPPORT BRACKETS.	
SD - 113	16+15 R	 	D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
RM - 218	16+10 R		D3-1	2.5 X 1	5.0												1			
<b>TOTALS THIS SHEET</b>						50.0	38.0						9.0	11.3	47.2	16.0		9	0	

\* - Distance from White or Yellow Edgeline, or Back of Curb, to Edge of Sign.

\*\* - (F)ixed Base, or Breakaway (S)lip Base, (A)nchor Stub Post, (D)irect drive, or (W)ood Post.

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					FA	DG		INSIDE	OUTSIDE			IN	OUT	2" SQ. STEEL					
<b>SD 34 / 7th Street</b>							632E3203	632E3205					632E1320	632E1330	632E1340	632E0010		110E0130	632E3520
SD - 114	18+75 L		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N				11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.
RM - 219			R1-1	2.5 X 2.5		6.3											1		
RM - 220	19+25 L		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING UTILITY POLE MOUNTED STREET SIGNS AND SUPPORT BRACKETS.
RM - 221	22+40 L		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING UTILITY POLE MOUNTED STREET SIGNS AND SUPPORT BRACKETS.
SD - 115	22+40 L		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N				11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.
RM - 222	22+40 L		R1-1	2.5 X 2.5		6.3											1		
RM - 223	22+95 R		D1-1a	6 X 3													1		REMOVE AND SALVAGE EXISTING SIGNS AND WOOD SUPPORTS. INSTALL NEW SIGN AND STEEL SUPPORT ASSEMBLIES WITH WINGED ANCHORS.
SD - 116	22+95 R		D1-2a	6 X 5.5	33.0		4' R	12'-06" 12'-06"	S	N	N			25.0					
SD - 117	26+05 L		D3-1	2.5 X 1	5.0		4'-03" R	11'-09"	S	N				11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.
RM - 224	26+10 L		R1-1	3 X 3		9.0											1		
RM - 225	26+55 R		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.
SD - 118	26+55 R		D3-1	2.5 X 1	5.0		4'-03" R	11'-09"	S	N				11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.
RM - 226	26+55 R		R1-1	3 X 3		9.0											1		
SD - 119	26+60 L		D3-1	1.5 X 0.75			6' R		D	R								1	REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL U-CHANNEL SUPPORT AT STA 26+55 L. REINSTALL EXISTING STREET SIGNS AND STEEL SUPPORT AT STA 26+60 L.
<b>TOTALS THIS SHEET</b>						73.0	30.6						0.0	0.0	72.2	16.0		8	1

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EA = Extruded Aluminum Panel Signs w/Removable Copy

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\*\* - (F)ixed Base, or Breakaway (S)lip Base, (A)nchor Stub Post, (D)irect drive, or (W)ood Post.

DG = Flat Aluminum Signs w/Nonremovable Copy - Fluorescent Super/Very High Intensity Sheeting

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					FA	DG		INSIDE	OUTSIDE			IN	OUT	2" SQ. STEEL					2 1/4" SQ. STEEL	2 1/2" SQ. STEEL		
<b>SD 34 / 7th Street</b>																						
RM - 227	29+70 L		D1-1a	6 X 3												1			REMOVE AND SALVAGE EXISTING SIGNS AND WOOD SUPPORTS. INSTALL NEW SIGN AND STEEL SUPPORT ASSEMBLIES WITH WINGED ANCHORS.			
			D1-1a	9 X 1.5																		
SD - 120	29+70 L		D1-2a	6 X 5.5	33.0		4' R	12'-06"	12'-06"	S	N	N			25.0							
SD - 121	29+70 L		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"		S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.			
			D3-1	2.5 X 1	5.0																	
RM - 228	29+75 L		R1-1	2.5 X 2.5		6.3											1					
RM - 229	29+70 R		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.			
SD - 122	30+20 R		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"		S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN, MRMs, AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.			
			D3-1	2.5 X 1	5.0																	
RM - 230	30+15 R		R1-1	2.5 X 2.5		6.3											1					
			MRM	0.38 X 1.5																		
			MRM	0.38 X 1.5																		
RM - 231	33+35 R		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.			
			D3-1	2 X 0.5																		
SD - 123	33+40 L		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"		S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.			
			D3-1	2.5 X 1	5.0																	
RM - 232	33+35 L		R1-1	2.5 X 2.5		6.3											1					
SD - 124	33+90 R		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"		S	N			11.8	4.0	4'-0"			REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.			
			D3-1	2.5 X 1	5.0																	
RM - 233	33+85 R		R1-1	2.5 X 2.5		6.3											1					
RM - 234	37+05 R		D3-1	2 X 0.5													1		REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.			
			D3-1	2 X 0.5																		
<b>TOTALS THIS SHEET</b>						73.0	25.2										8	0				

\* - Distance from White or Yellow Edgeline, or Back of Curb, to Edge of Sign.

EA = Extruded Aluminum Panel Signs w/Removable Copy

FA = Flat Aluminum Signs w/Non-Removable Copy - High Intensity Sheeting

\*\* - (F)ixed Base, or Breakaway (S)lip Base, (A)nchor Stub Post, (D)irect drive, or (W)ood Post.

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## PERMANENT SIGNING TABLE

SIGN DATA							POST DATA						FOOTING DATA		REMOVAL DATA		DESCRIPTION			
SIGN #	STATION	DESCRIPTION	SIGN CODE	SIGN SIZE (FT)	SIGN AREA (SQ FT)		OFFSET* RIGHT/LEFT OVERHEAD	POST LENGTHS (ABOVE GROUND)		FIXED or BREAK- AWAY**	(N)EW or (R)EUSE POST	POST SIZES AND QTY (FT)			1'-3" DIA BREAKAWAY (FT)	FOOTING LENGTH(S)		REMOVE TRAFFIC SIGN	REMOVE, SALVAGE & RESET SIGN	
					FA	DG		INSIDE	OUTSIDE			IN	OUT	2" SQ. STEEL						2 1/4" SQ. STEEL
<b>SD 34 / 7th Street</b>							632E3203	632E3205					632E1320	632E1330	632E1340	632E0010		110E0130	632E3520	
SD - 125	37+05 L		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
			D3-1	2.5 X 1	5.0															
			R1-1	2.5 X 2.5		6.3														
RM - 235	37+10 L		R1-1	2.5 X 2.5												1				
SD - 126	37+55 R		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
			D3-1	2.5 X 1	5.0															
			R1-1	2.5 X 2.5		6.3														
RM - 236	37+50 R		R1-1	2.5 X 2.5												1				
RM - 237	40+65 R		D3-1	2 X 0.5												1			REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.	
			D3-1	2 X 0.5																
SD - 127	41+20 R		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND STEEL SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
			D3-1	2.5 X 1	5.0															
			R1-1	2.5 X 2.5		6.3														
RM - 238	41+20 R		R1-1	2.5 X 2.5												1				
RM - 239	44+30 R		D3-1	2 X 0.5												1			REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.	
			D3-1	2 X 0.5																
SD - 128	44+85 R		D3-1	2.5 X 1	5.0		4'-06" R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
			D3-1	2.5 X 1	5.0															
			R1-1	2.5 X 2.5		6.3														
RM - 240	44+80 R		R1-1	2.5 X 2.5												1				
RM - 241	48+05 R		D3-1	2 X 0.5												1			REMOVE AND SALVAGE EXISTING STREET SIGNS AND STEEL SUPPORT.	
			D3-1	2 X 0.5																
SD - 129	48+50 R		D3-1	2.5 X 1	5.0		2' R	11'-09"	S	N			11.8	4.0	4'-0"				REMOVE AND SALVAGE EXISTING STOP SIGN AND WOOD SUPPORT. INSTALL NEW STOP SIGN, STREET SIGNS AND SUPPORT ASSEMBLY.	
			D3-1	2.5 X 1	5.0															
			R1-1	2.5 X 2.5		6.3														
RM - 242	48+50 R		R1-1	2.5 X 2.5												1				
<b>TOTALS THIS SHEET</b>					50.0	31.5							0.0	0.0	59.0	20.0		8	0	
<b>TOTALS ALL SHEETS</b>					285.0	188.9								9.0	45.2	297.8	84.0		42	1

\* - Distance from White or Yellow Edgeline, or Back of Curb, to Edge of Sign.

EA = Extruded Aluminum Panel Signs w/Removable Copy      FA = Flat Aluminum Signs w/Non-Removable Copy - High Intensity Sheeting

\*\* - (F)ixed Base, or Breakaway (S)lip Base, (A)nchor Stub Post, (D)irect drive, or (W)ood Post.

DG = Flat Aluminum Signs w/Nonremovable Copy - Fluorescent Super/Very High Intensity Sheeting

# PERMANENT SIGNING

SD 34 / 7TH STREET - WOONSOCKET

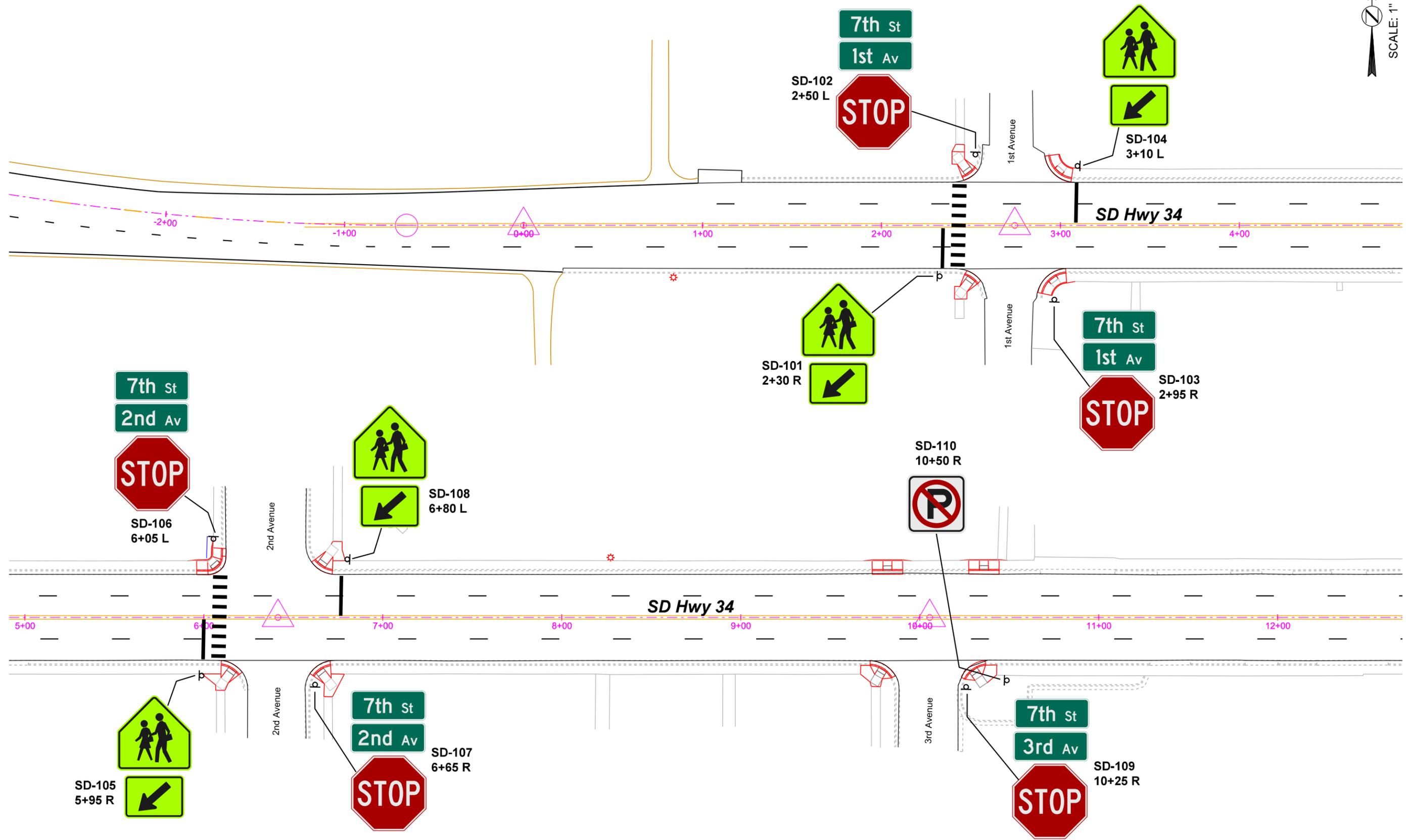
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	S9	S17



PLOT SCALE - 1" = 50'

PLOT NAME - \$\$PLOTNAME\$\$

FILE - 02BHSIGNING2D.DGN



PLOTTED FROM - TRM11126

# PERMANENT SIGNING

SD 34 / 7TH STREET - WOONSOCKET

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	S10	S17

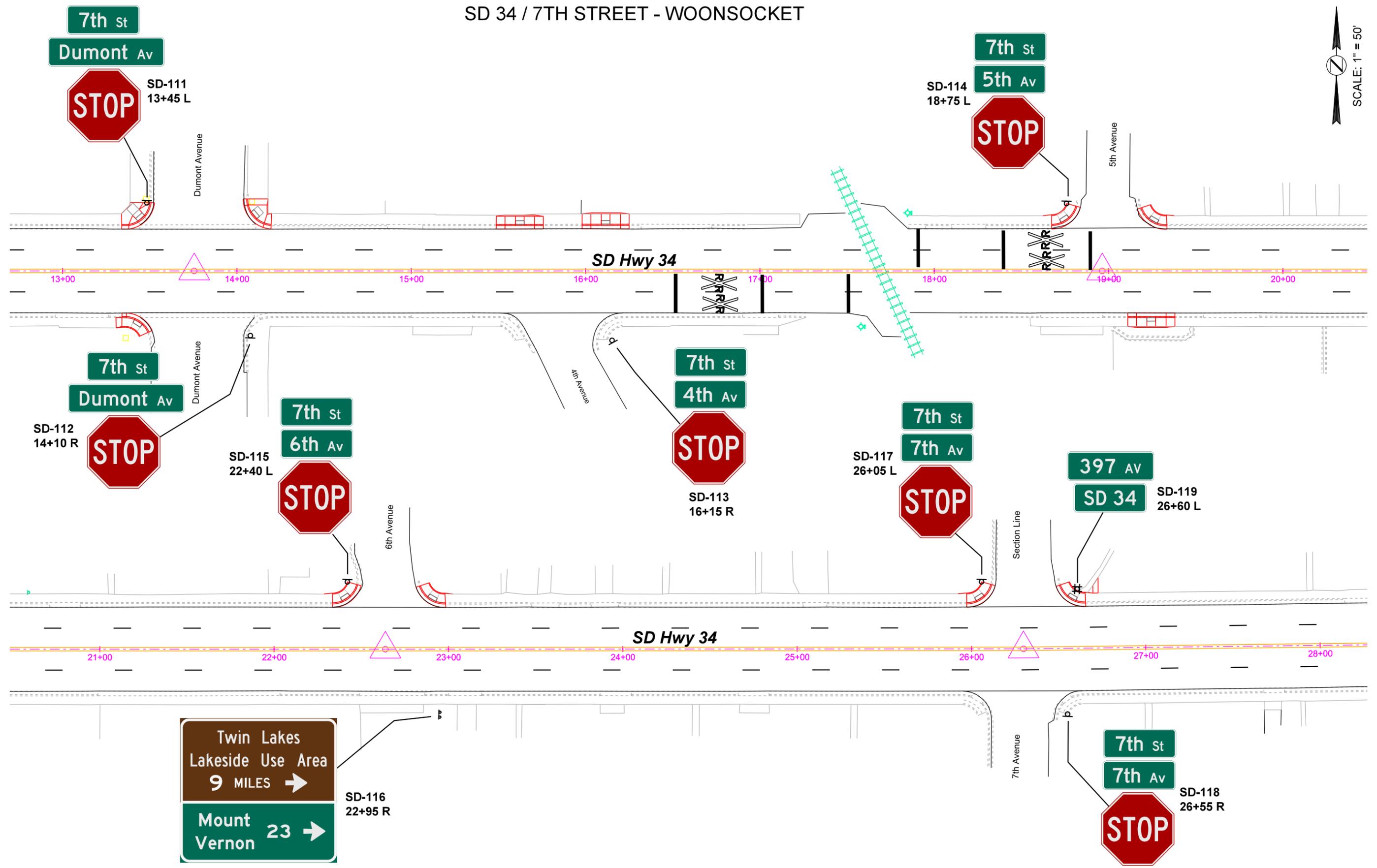


PLOT SCALE - 1" = 50'

PLOT NAME - \$\$PLOTNAME\$\$

PLOTTED FROM - TRM11126

FILE - 02BHSIGNING02D.DGN



# PERMANENT SIGNING

SD 34 / 7TH STREET - WOONSOCKET

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	S11	S17



SD-121  
29+70 L

7th St  
8th Av

8th Avenue

Twin Lakes  
Lakeside Use Area  
← 9 MILES

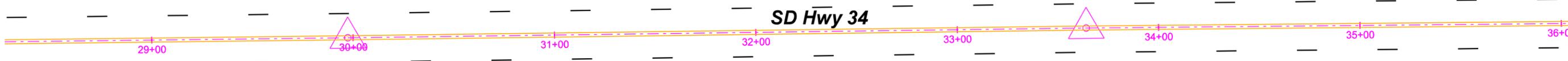
← Mount Vernon 23

SD-120  
29+70 L

SD-123  
33+40 L

7th St  
9th Av

9th Avenue



SD-125  
37+05 L

7th St  
10th Av

10th Avenue

8th Avenue

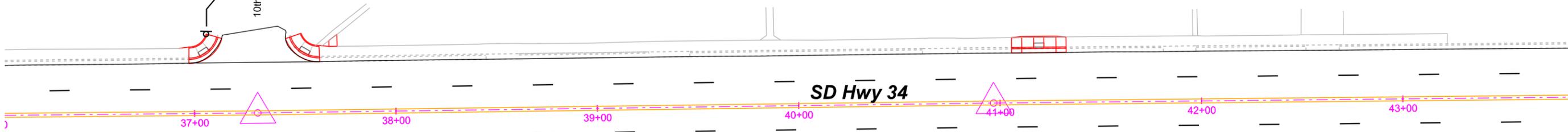
7th St  
8th Av

SD-122  
30+20 R

SD-124  
33+90 R

7th St  
9th Av

9th Avenue



SD-126  
37+55 R

7th St  
10th Av

10th Avenue

SD-127  
41+20 R

7th St  
11th Av

11th Avenue

PLOT SCALE - 1" = 50'

PLOTTED FROM - IRWI11126

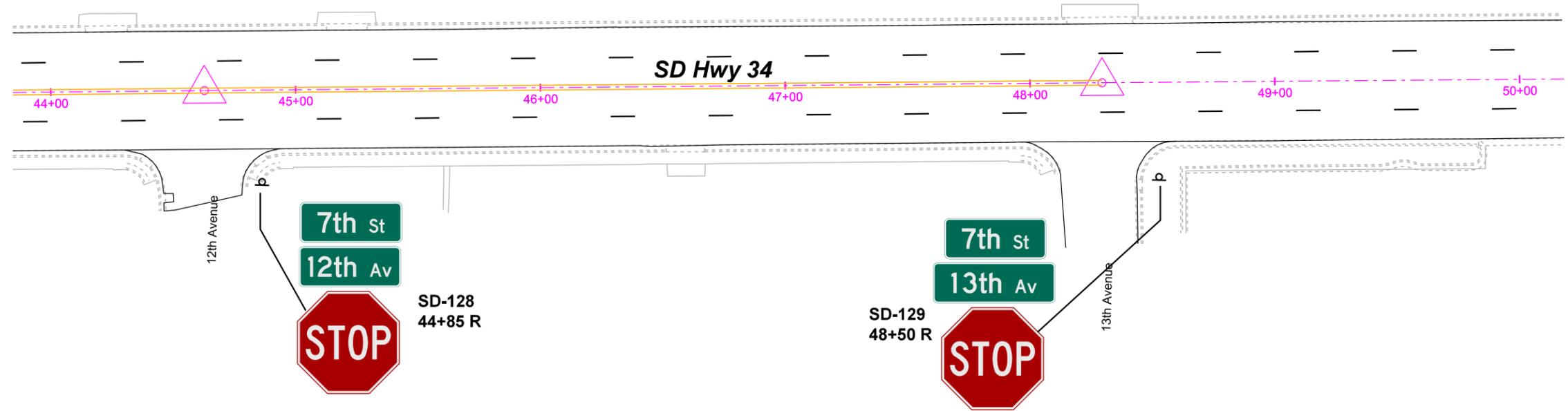
PLOT NAME - \$\$PLOTNAME\$\$

FILE - 02BHSIGNING02D.DGN

# PERMANENT SIGNING

SD 34 / 7TH STREET - WOONSOCKET

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	S12	S17



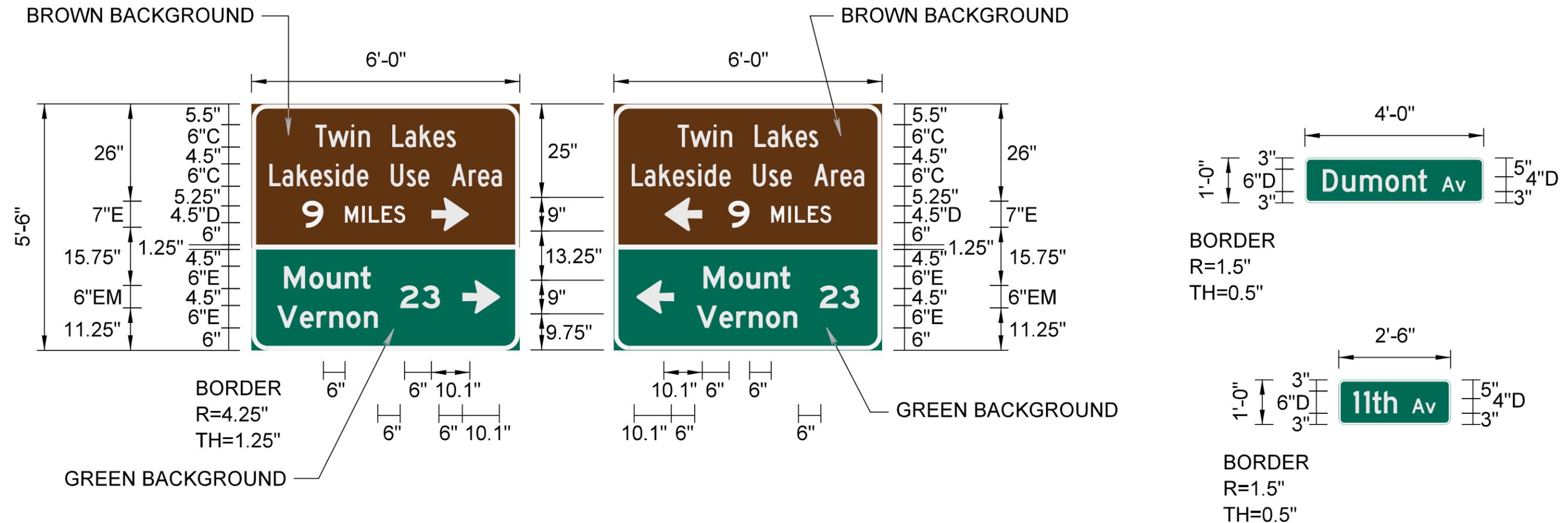
PLOT SCALE - 1" = 50'

PLOTTED FROM - TRM11126

PLOT NAME - \$\$PLOTNAME\$\$

FILE - 02BHSIGNING02D.DGN

# GUIDE SIGNS



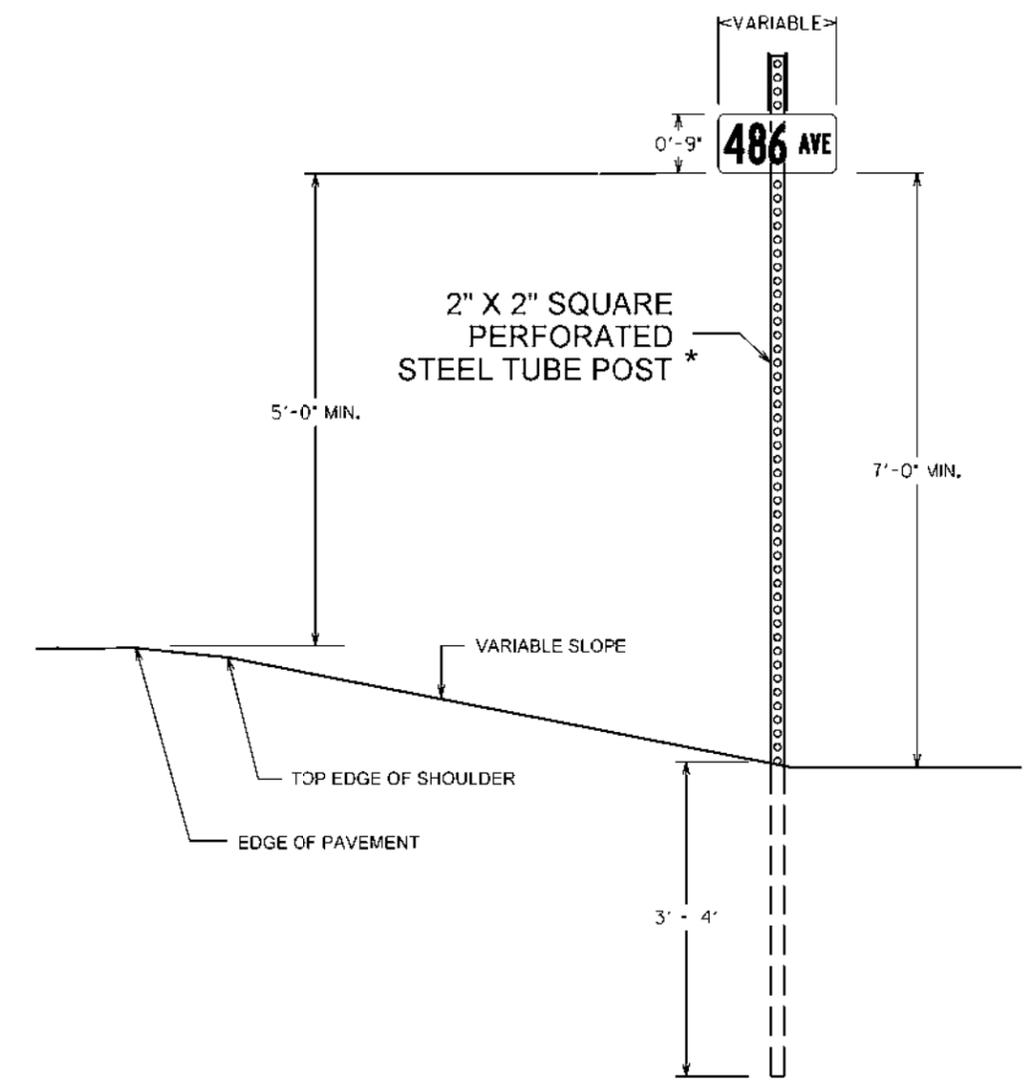
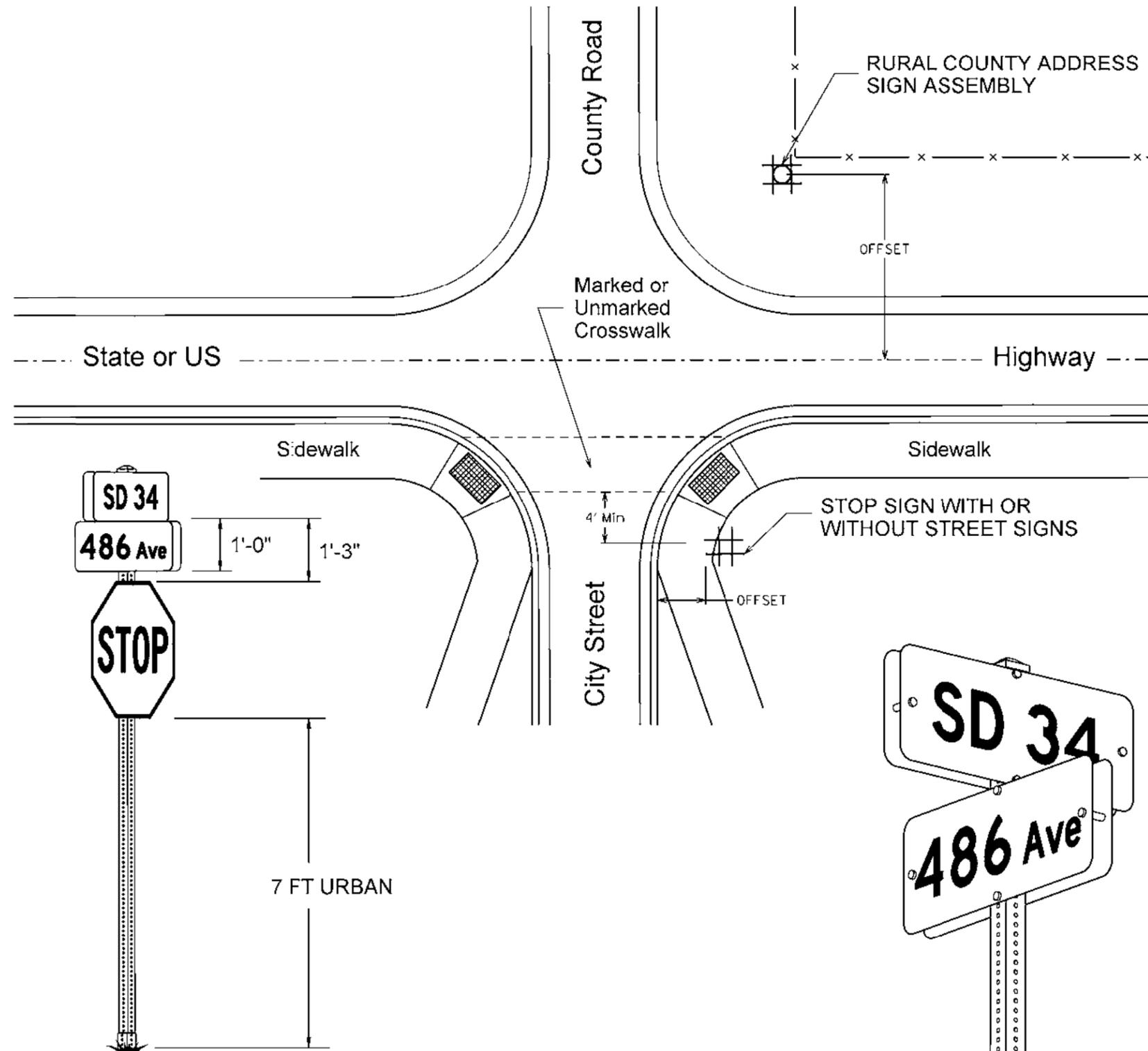
SIGN NUMBER	SD-116 & SD-120
WIDTH x HEIGHT	6'-0" x 5'-6"
BORDER WIDTH	1 1/4"
CORNER RADIUS	4 1/4"
ARROW(S)	10 1/10" X 9" Type B
MOUNTING	Ground
BACKGROUND	TYPE: Type IV High Intensity COLOR: Brown (Top) / Green (Bottom)
LEGEND/BORDER	TYPE: Type IV High Intensity COLOR: White Reflective

SIGN NUMBER	SD-102, SD-103, SD-106, SD-107, SD-109, SD-111, SD-112, SD-113, SD-114, SD-115, SD-117, SD-118, SD-121, SD-122, SD-123, SD-124, SD-125, SD-126, SD-127, SD-128, SD-129
WIDTH x HEIGHT	2'-6" x 1'-0" or 4'-0" x 1'-0" (Typical)
BORDER WIDTH	1/2"
CORNER RADIUS	1 1/2"
MOUNTING	Ground
BACKGROUND	TYPE: Type IV High Intensity COLOR: Green
LEGEND/BORDER	TYPE: Type IV High Intensity COLOR: White Reflective

# URBAN STREET AND RURAL ADDRESS SIGNING

(TYPICAL)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0034(00)327	S14	S17



URBAN STREET and STOP SIGN ASSEMBLY

TYPICAL INSTALLATION

RURAL COUNTY ADDRESS SIGNING ASSEMBLY

\* - Post types and sizes may vary.

PLOT SCALE - \$\$\$CALESS

PLOTTED FROM - \$\$USERNAME\$\$

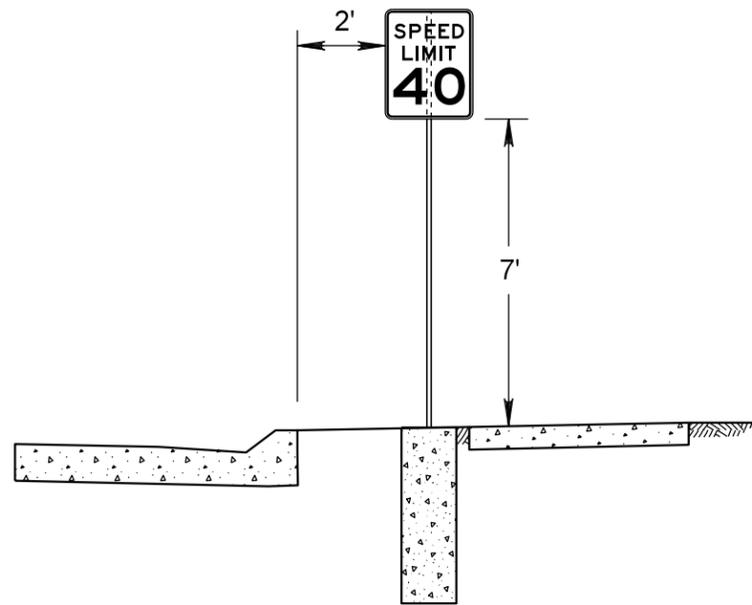
PLOT NAME - \$\$PLOTNAME\$\$

FILE - \$\$FILENAME\$\$

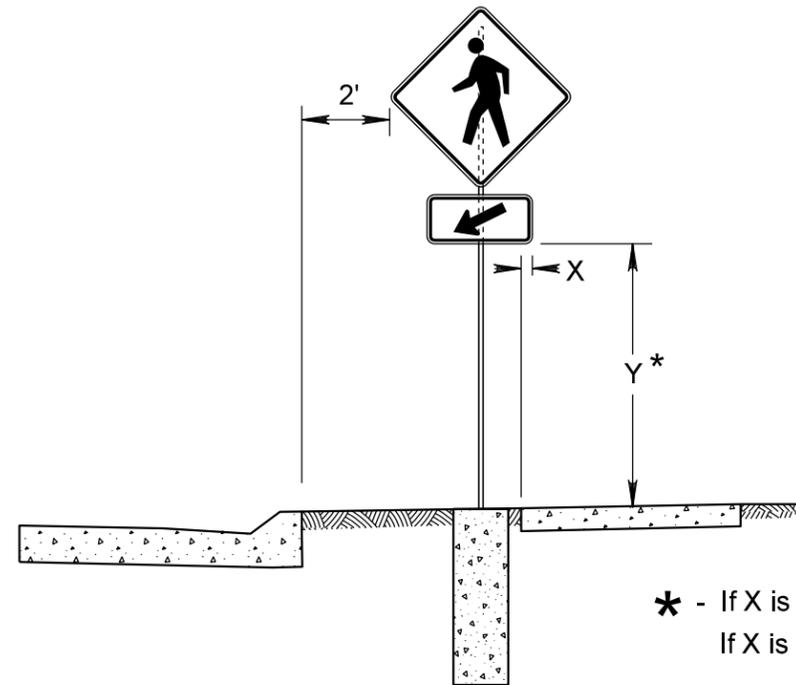
# SPECIAL SIGN SUPPORT DETAILS

## ONE WAY SIGNS & SIGNS ADJACENT TO SIDEWALKS

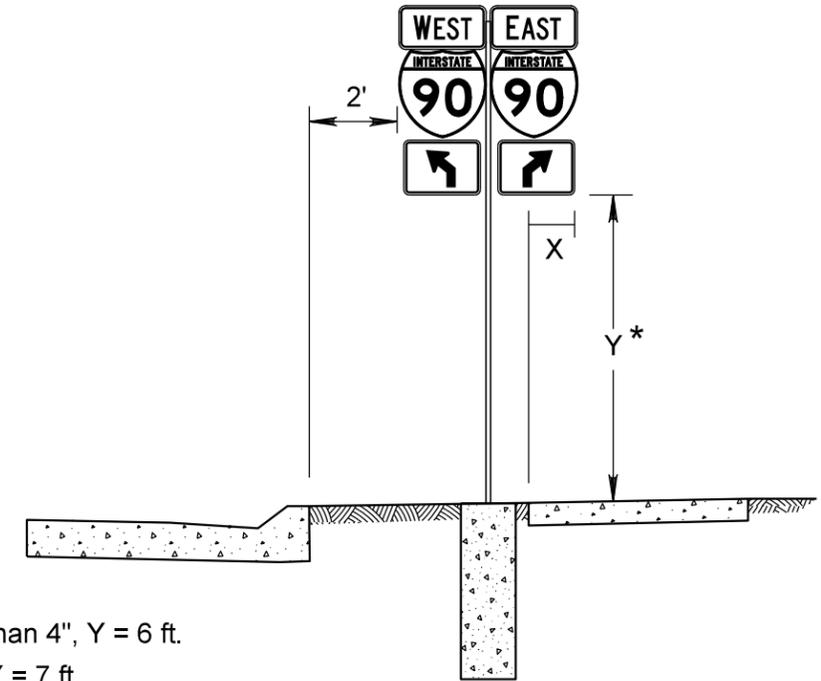
(Typical)



SINGLE SIGN

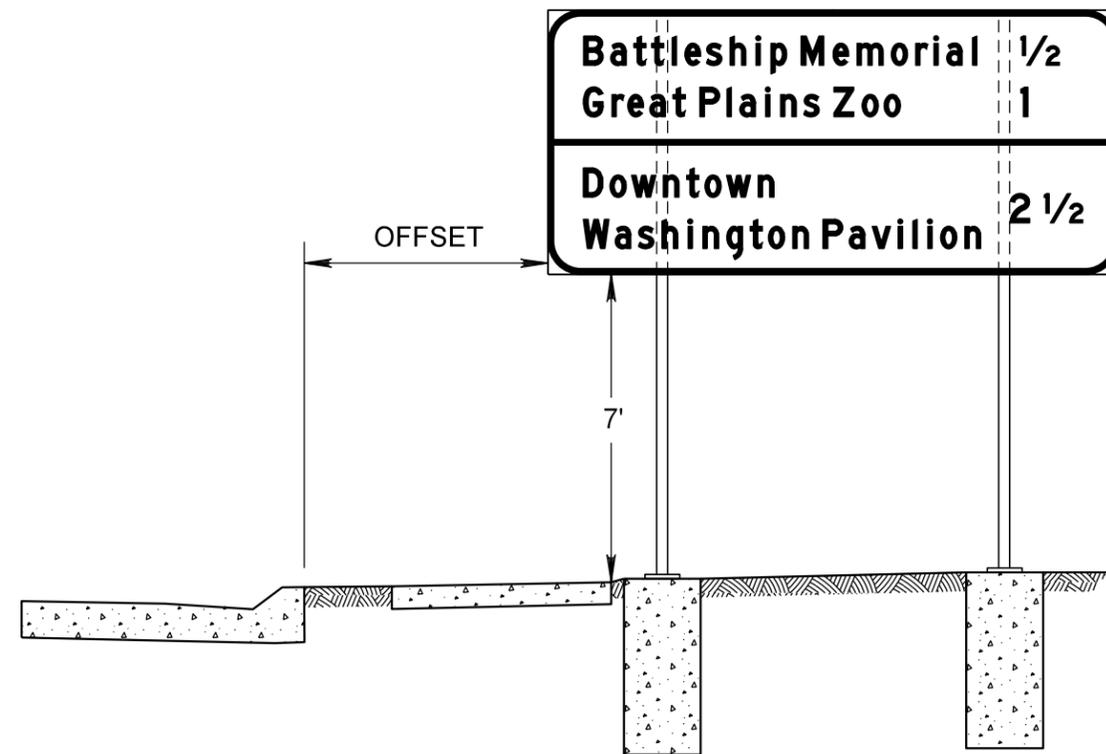


SINGLE SIGN WITH SUPPLEMENTAL

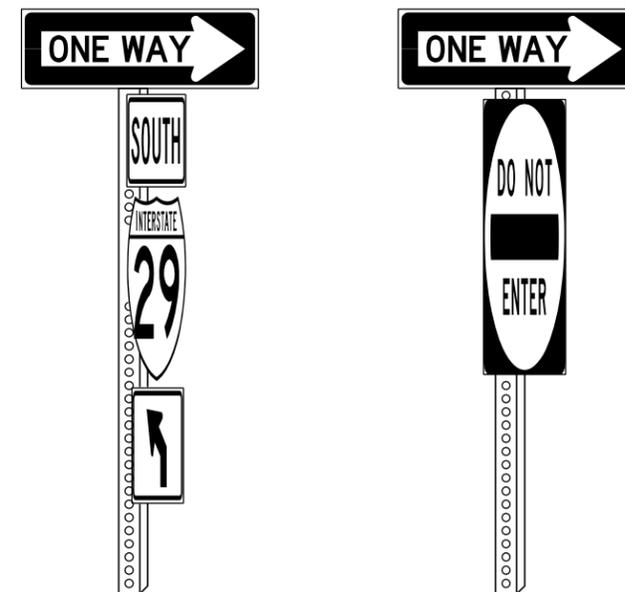


MULTIPLE SIGNS WITH SUPPLEMENTALS

\* - If X is equal to or less than 4", Y = 6 ft.  
If X is greater than 4", Y = 7 ft.



TWO-POST GUIDE SIGN



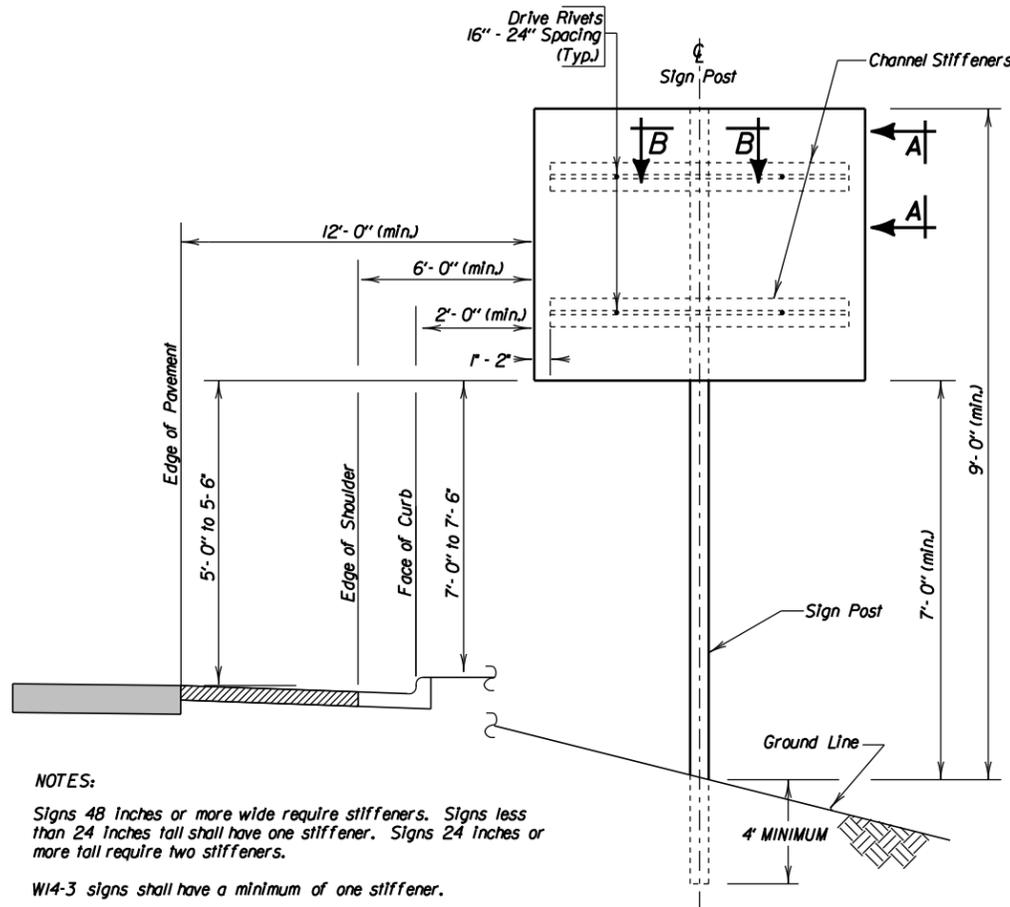
TYPICAL 90° MOUNTED ONE-WAY ASSEMBLIES

NO SCALE

# TYPICAL SIGN AND STIFFENER DETAILS

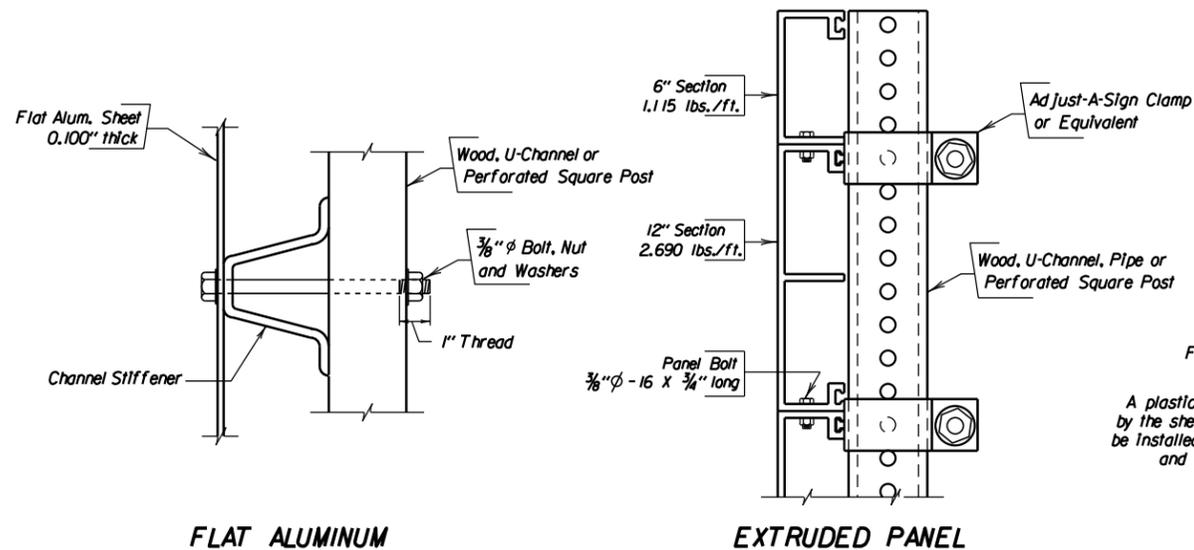
STATE OF SOUTH DAKOTA	PROJECT P 0034(00)327	SHEET S16	TOTAL SHEETS S17
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## SINGLE POST BREAKAWAY SIGN SUPPORT



**NOTES:**  
 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.

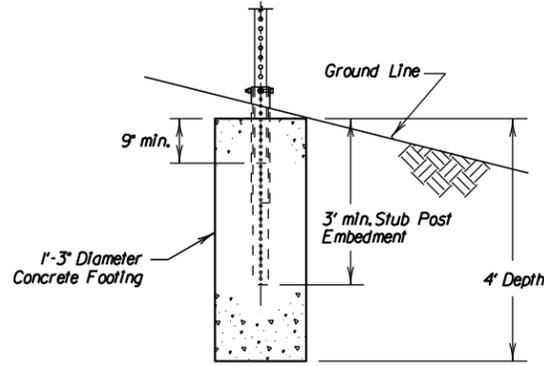
## DIRECT DRIVE OR ANCHOR STUB POST



FLAT ALUMINUM

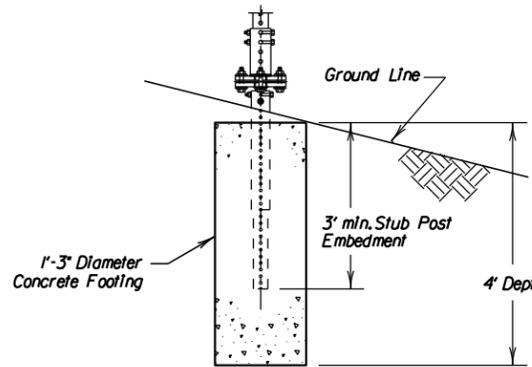
EXTRUDED PANEL

SEC. A-A



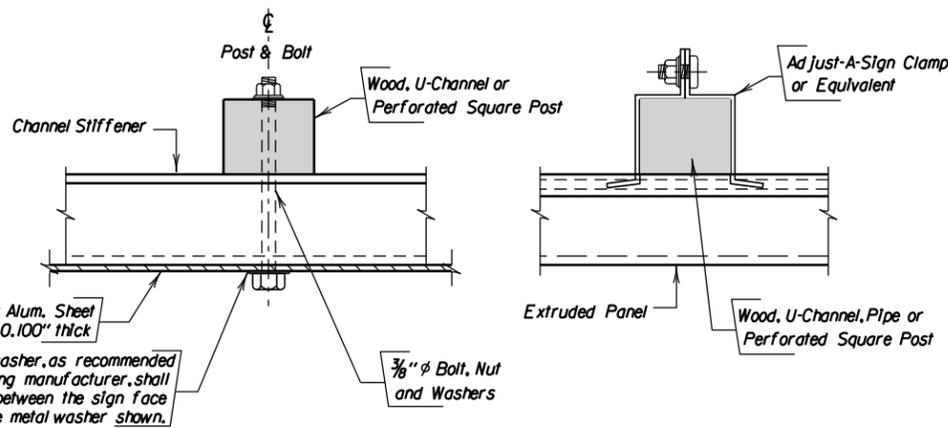
## BREAKAWAY ANCHOR STUB POST BASE WITH CONCRETE FOOTING

**NOTE:** Square steel perforated tube post with breakaway anchor stub post base, as per Manufacturer.



## BREAKAWAY SLIP BASE WITH CONCRETE FOOTING

**NOTE:** Square steel perforated tube post with breakaway slip base, as per Manufacturer.

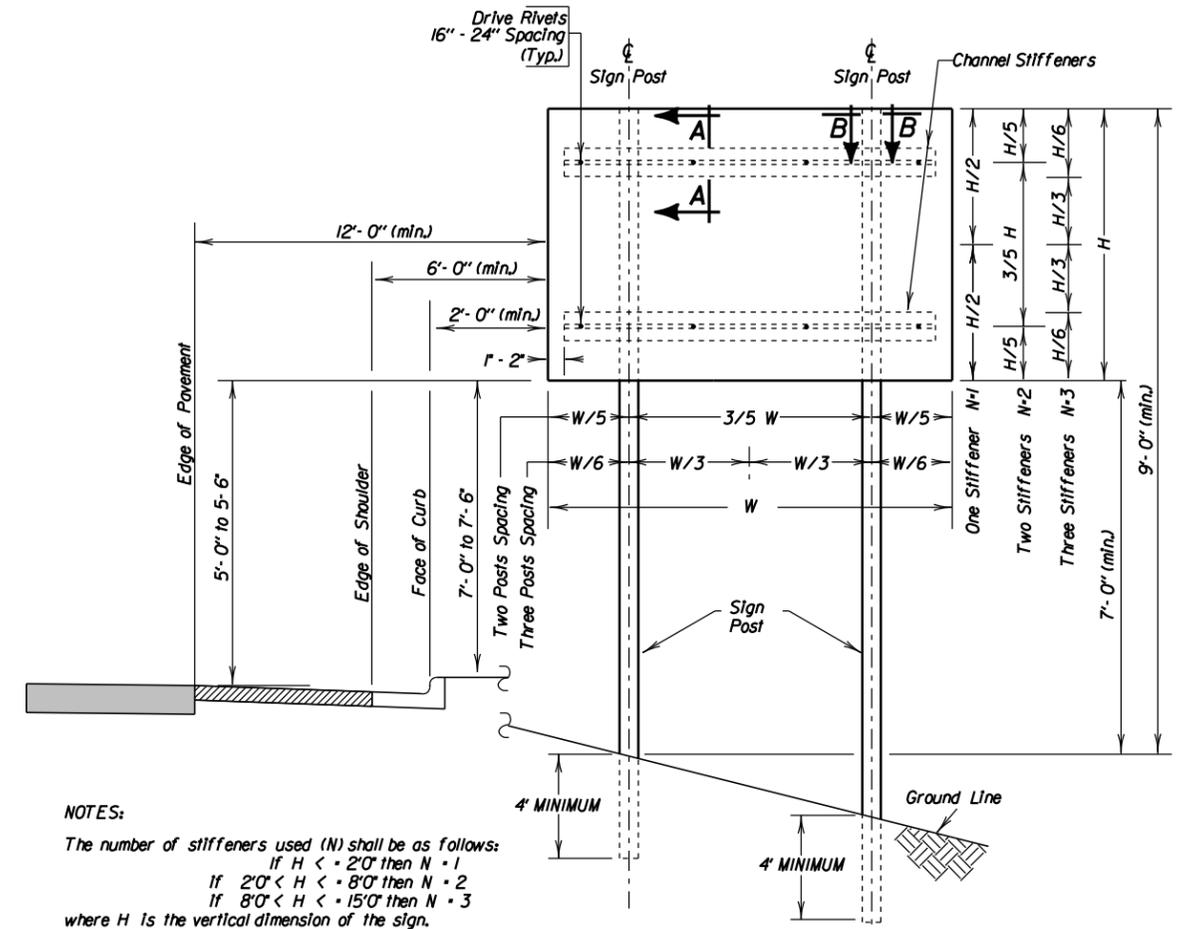


FLAT ALUMINUM

EXTRUDED PANEL

SEC. B-B

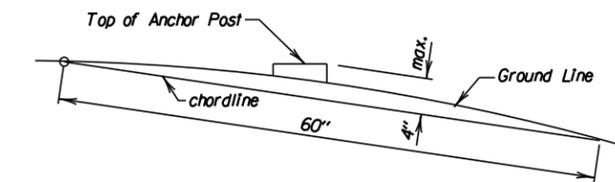
## TWO POST BREAKAWAY SIGN SUPPORTS



**NOTES:**  
 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.

## DIRECT DRIVE OR ANCHOR STUB POST



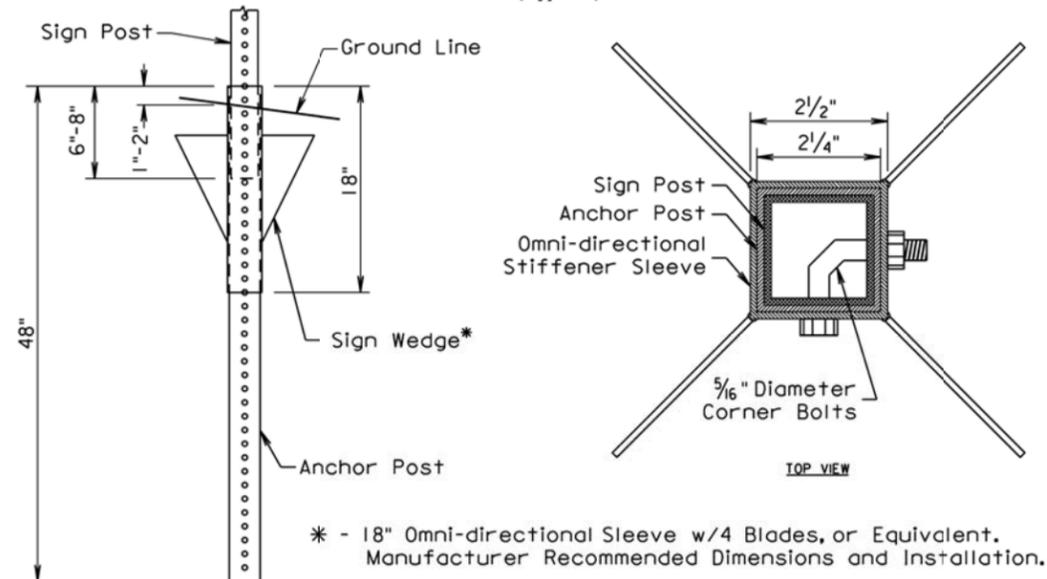
## BREAKAWAY SUPPORT STUB CLEARANCE DIAGRAM

**NOTE:** The top of anchor post shall NOT extend more than 4" max. above the chordline within a 60" chord.

Alternate sign connection methods may be used if approved by the Engineer.

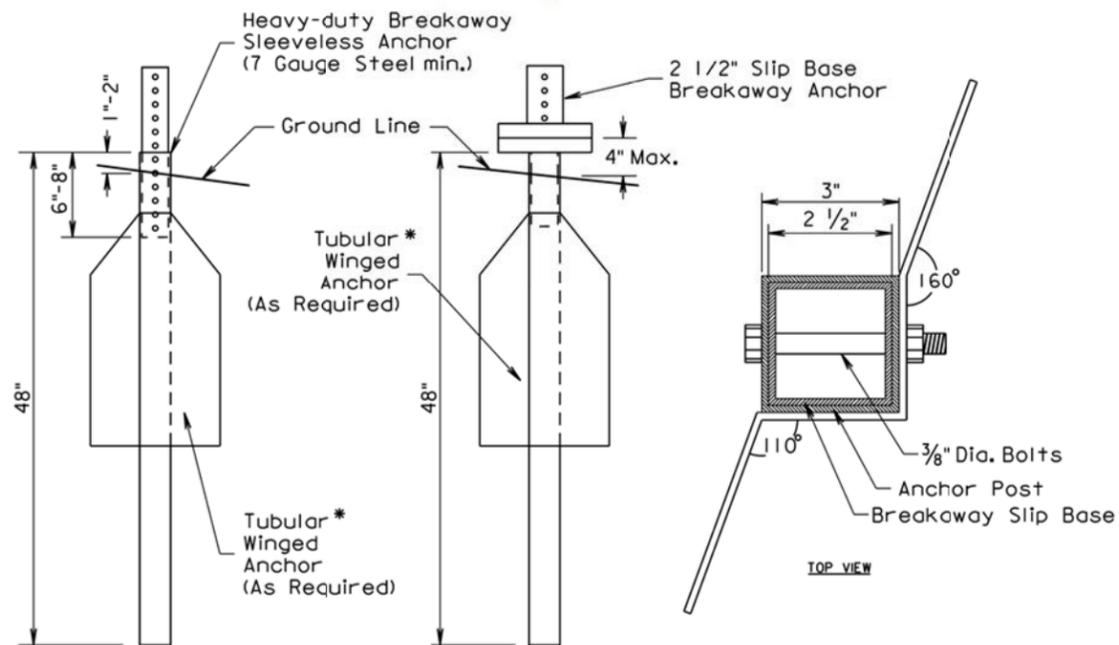
Sign installations must meet or exceed NCHRP 350 breakaway requirements and be FHWA approved.

**2" and 2 1/2" SQUARE STEEL PERFORATED TUBE POST  
BREAKAWAY WINGED ANCHOR BASE DETAILS  
(Typical)**



\* - 18" Omni-directional Sleeve w/4 Blades, or Equivalent.  
Manufacturer Recommended Dimensions and Installation.

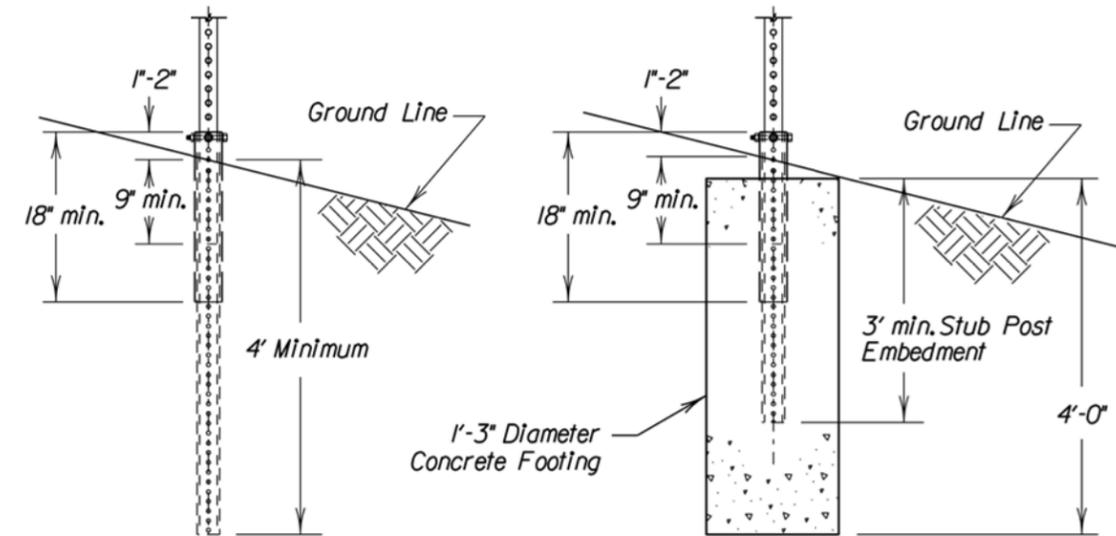
SIGN BASE DETAILS FOR A 2" SIGN POST



\* - 7 ga. Tubular Winged Anchor, or Equivalent.  
Manufacturer Recommended Dimensions and Installation.

SIGN BASE DETAILS FOR A 2 1/2 " SIGN POST

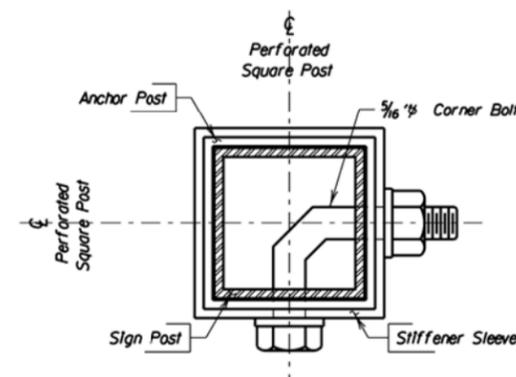
**2" and 2 1/4" SQUARE STEEL PERFORATED TUBE POST  
BREAKAWAY TWO-PIECE ANCHOR BASE DETAILS  
(Typical)**



DRIVEN ANCHOR

CONCRETE FOOTING ANCHOR

**ELEVATION VIEWS**



**POST X-SECTION 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

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