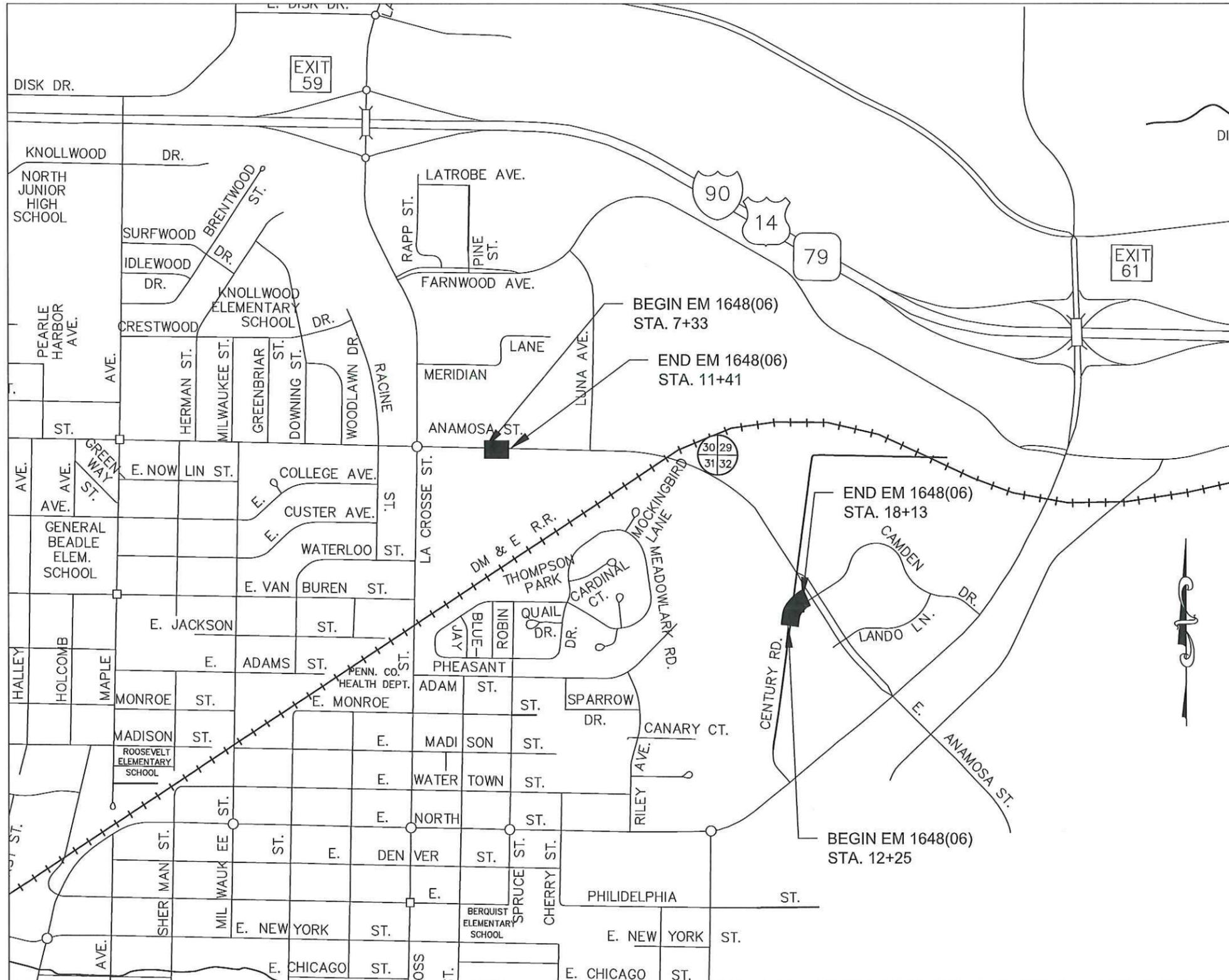


STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S1	S10
PERMANENT SIGNING PLANS			

# SECTION S: PERMANENT SIGNING PLANS

## INDEX OF SHEETS

S1	SECTION TITLE SHEET
S2	ESTIMATE WITH GENERAL NOTES & TABLES
S3	PERMANENT SIGNING TABLE
S4-S6	PERMANENT SIGNING LAYOUTS
S7-S10	SDDOT STANDARD PLATES



RAPID CITY, SD



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STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S2	S10
ESTIMATE WITH GENERAL NOTES & TABLES			

SECTION S – ESTIMATE OF QUANTITIES			
BID ITEM NUMBER	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
632E1320	2.0"X2.0" PERFORATED TUBE POST	124.0	FT
632E3203	FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY	8.0	SQFT
632E3205	FLAT ALUMINUM SIGN, NONREMOVABLE COPY SUPER/VERY HIGH INTENSITY	98.0	SQFT

**PERMANENT SIGNING**

THE CONTRACTOR SHALL STAKE THE SIGNS AND THE ENGINEER WILL VERIFY THE LOCATION PRIOR TO INSTALLATION. THE LATERAL DISTANCE FROM THE ROADWAY AND THE HEIGHT OF THE SIGN SHALL BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD ACCORDING TO THE STANDARD PLATES IN THE PLANS AND THE MUTCD.

WHEN SIGNS ARE VERTICALLY MOUNTED IN SUCCESSION, THEY SHALL BE 1-2 INCHES APART. LATERAL PLACEMENT OF SIGNS SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF SIGNS WITH SECTION C OF THESE PLANS. EXISTING SIGNING SHALL BE REPLACED, LEFT IN PLACE, OR TEMPORARILY COVERED AS NEEDED TO SAFELY DIRECT TRAFFIC THROUGH THE PROJECT OR AS DIRECTED BY THE ENGINEER.

ALL SIGNS SHALL CONFORM TO CITY OF RAPID CITY SPECIFICATIONS.

**PERFORATED TUBE POST**

ALL PERFORATED TUBE SIGN POSTS SHALL HAVE A SOIL STABILIZER ATTACHED TO THE BASE. SOIL STABILIZERS SHALL BE AN MPJ SIGN WEDGE.

SIGN ASSEMBLIES MOUNTED IN CONCRETE OR ASPHALT SURFACING SHALL USE FLUSH MOUNT BREAKAWAY POST BASES. BASES SHALL BE TAPCO V-LOC MODEL 200 STYLE OR EQUIVALENT.

THE CONTRACTOR SHALL USE TELES PAR BRAND (OR EQUIVALENT) POSTS AND BASES ON ALL NEW STANDARD HIGHWAY SIGNS AS APPROVED BY THE ENGINEER. THE HEIGHT OF THE POST SHALL NOT EXCEED THE MINIMUM HEIGHT NEEDED BY MORE THAN 0.5 FEET. ANY PORTION THAT EXTENDS ABOVE THE SIGN SHALL BE CUT OFF. NO SEPARATE PAYMENT WILL BE MADE FOR CUTTING THE POST OR FOR THAT LENGTH CUT OFF. ALL SIGN ASSEMBLIES MOUNTED IN CONCRETE SURFACING SHALL UTILIZE A FLUSH MOUNT BREAKAWAY POST BASE. ALL POSTS AND BASES SHALL BE ACCOMPANIED BY CERTIFICATES OF COMPLIANCE.

BREAKAWAY POST DETAILS REGARDING POSTS, HARDWARE, AND BASES SHALL BE FOLLOWED AS PER THE MANUFACTURER'S RECOMMENDATIONS.

**HARDWARE**

ALUMINUM U-CHANNEL STIFFENERS SHALL BE USED ON ALL STANDARD HIGHWAY SIGNS GREATER THAN 36" IN WIDTH AND SHALL CONFORM TO ALLOY 6063-T6 OR 6061-T6. THE U-CHANNEL SHALL BE 2 INCHES IN WIDTH AND FREE OF HOLES. THE U-CHANNEL STIFFENERS SHALL ALSO BE USED TO CONNECT VARIOUS SIGNS AND PERFORATED TUBE POSTS TOGETHER SO THAT AN ENTIRE SIGN CAN BE ERECTED AS A SINGLE INSTALLATION. STIFFENERS MAY BE FASTENED TO SIGNS BY USE OF 1/4" DRIVE RIVETS WITH A MINIMUM OF ONE ON EACH END AND ONE CENTERED BETWEEN EACH POST. INSTALLATION OF THE STIFFENERS SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.

**STATE LAW YIELD TO PEDESTRIAN WITHIN CROSSWALK SIGN**

THE R1-6 SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD SECTION 2B.12.13.



FOR BIDDING PURPOSES ONLY

PERMANENT SIGNING TABLE

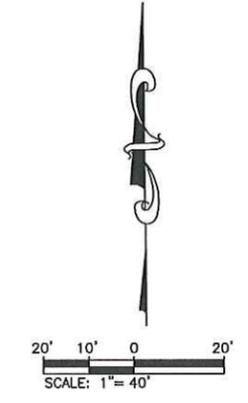
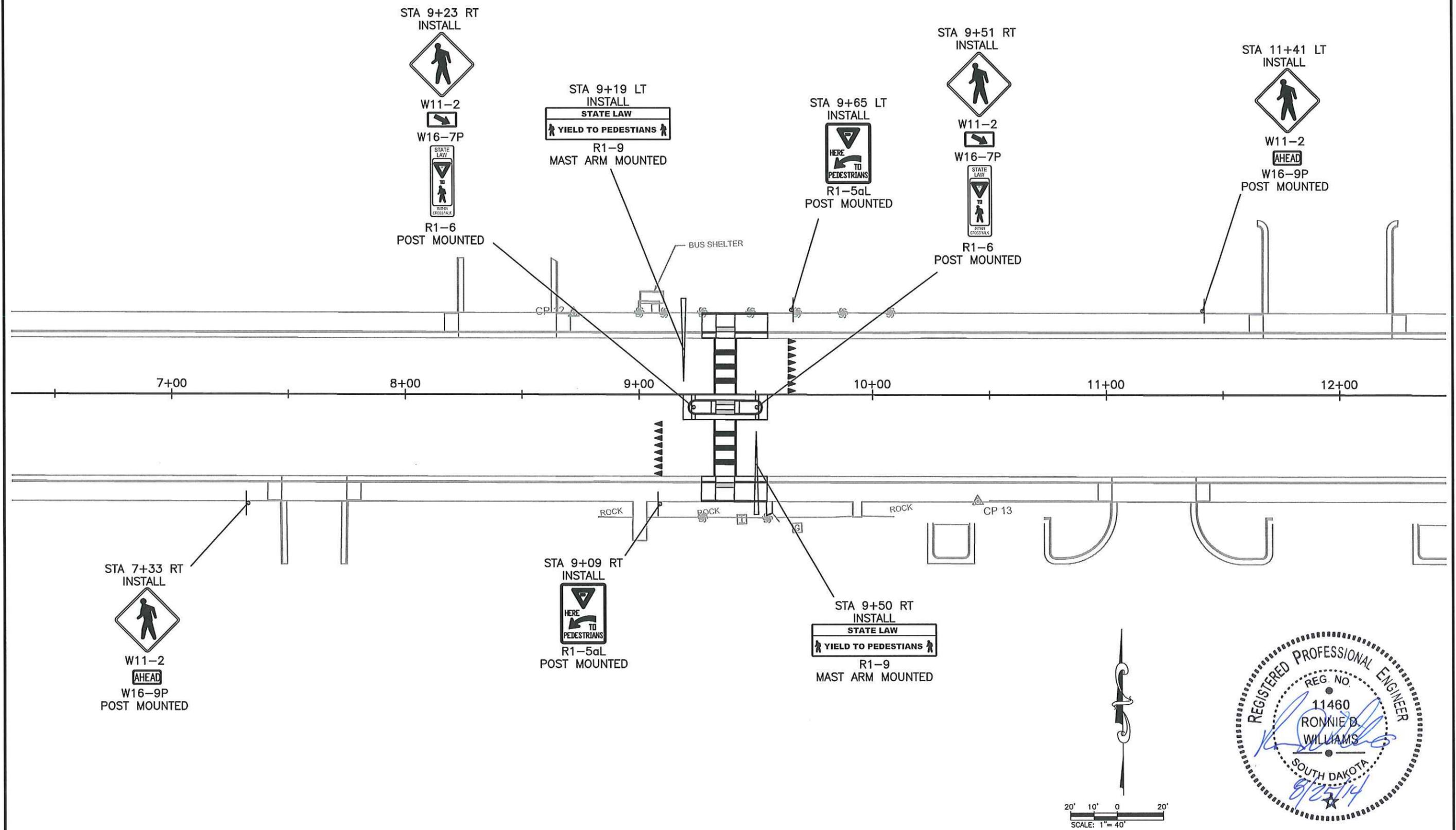
STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S3	S10
PERMANENT SIGNING TABLE			

STATION	OFFSET	SIGN				POST				DESCRIPTION	
		WIDTH (IN)	HEIGHT (IN)	AREA BY SHEETING TYPE (SF)		SIGN NUMBER	MOUNTING	LENGTH	SIZE		#
				HIGH INTENSITY	SUPER HIGH INTENSITY						
7+33	RT	36	36	-	9	W11-2	POST	15.0	2X2	1	PEDESTRIAN CROSSING
		24	12	-	2	W16-9P					AHEAD
9+09	RT	36	36	-	9	R1-5aL	POST	13.0	2X2	1	YIELD HERE TO PEDESTRIANS
9+19	LT	90	24	-	15	R1-9	MAST ARM	-	-	-	STATE LAW YIELD TO PEDESTRIANS
9+23	RT	36	36	-	9	W11-2	POST	16.0	2X2	1	PEDESTRIAN CROSSING
		24	12	-	2	W16-7P					DIAGONAL ARROW
		12	36	-	3	R1-6					STATE LAW YIELD TO PEDESTRIAN WITHIN CROSSWALK
9+50	RT	90	24	-	15	R1-9	MAST ARM	-	-	-	STATE LAW YIELD TO PEDESTRIANS
9+51	RT	36	36	-	9	W11-2	POST	16.0	2X2	1	PEDESTRIAN CROSSING
		24	12	-	2	W16-7P					DIAGONAL ARROW
		12	36	-	3	R1-6					STATE LAW YIELD TO PEDESTRIAN WITHIN CROSSWALK
9+65	LT	36	36	-	9	R1-5aL	POST	13.0	2X2	1	YIELD HERE TO PEDESTRIANS
11+41	LT	36	36	-	9	W11-2	POST	15.0	2X2	1	PEDESTRIAN CROSSING
		24	12	-	2	W16-9P					AHEAD
15+75	LT	12	18	1.5	-	R7-1	POST	12.0	2X2	1	NO PARKING ANY TIME
15+75	RT	12	18	1.5	-	R7-1	POST	12.0	2X2	1	NO PARKING ANY TIME
17+00	LT	24	30	5	-	R2-1	POST	12.0	2X2	1	SPEED LIMIT 25
<b>SUBTOTAL:</b>				8.0	98.0	-	-	124.0	-	-	



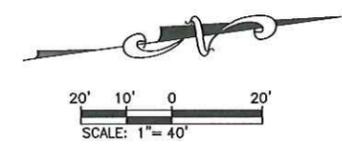
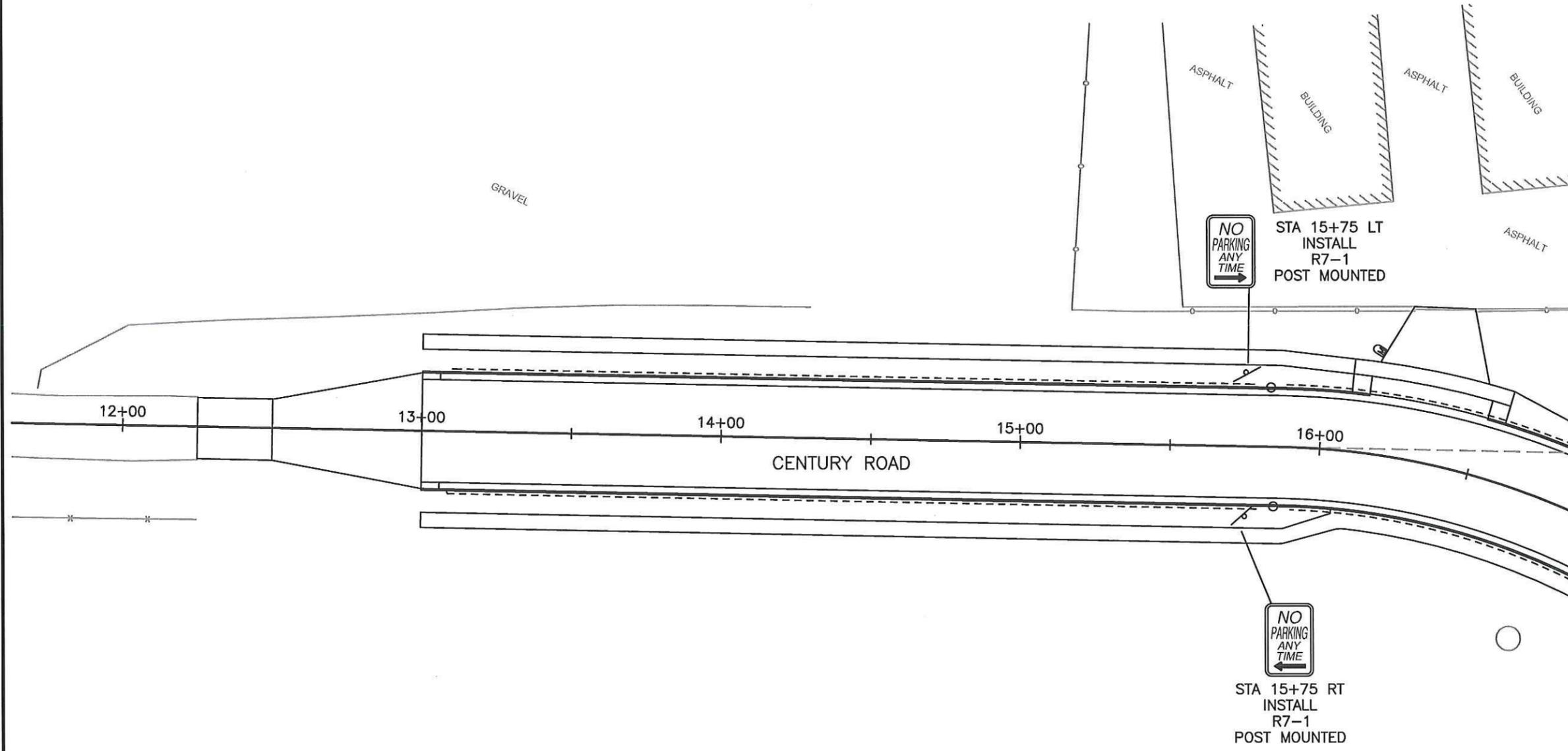
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S4	S10
PERMANENT SIGNING - EAST ANAMOSA STREET			



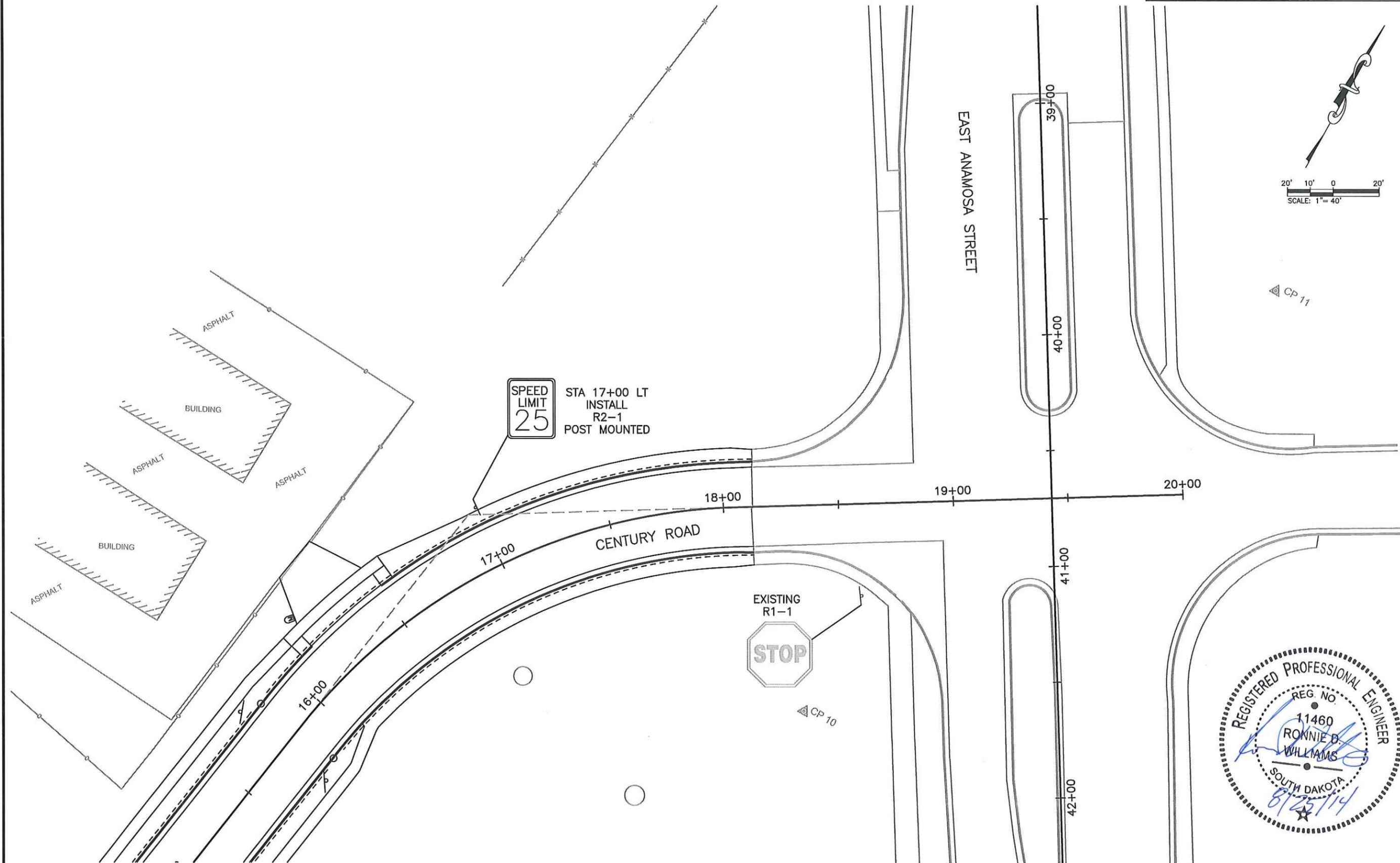
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S5	S10
PERMANENT SIGNING - CENTURY ROAD			

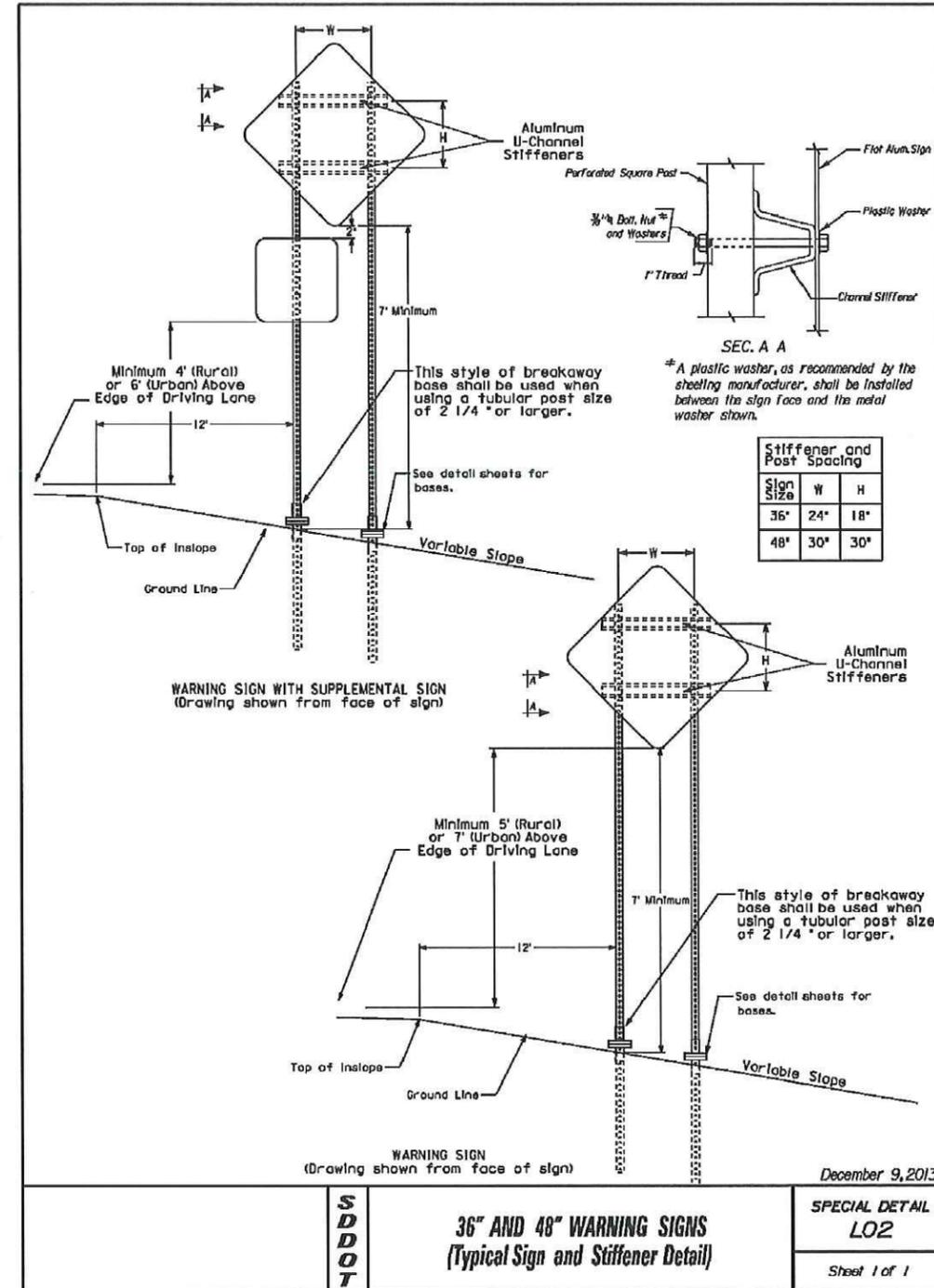
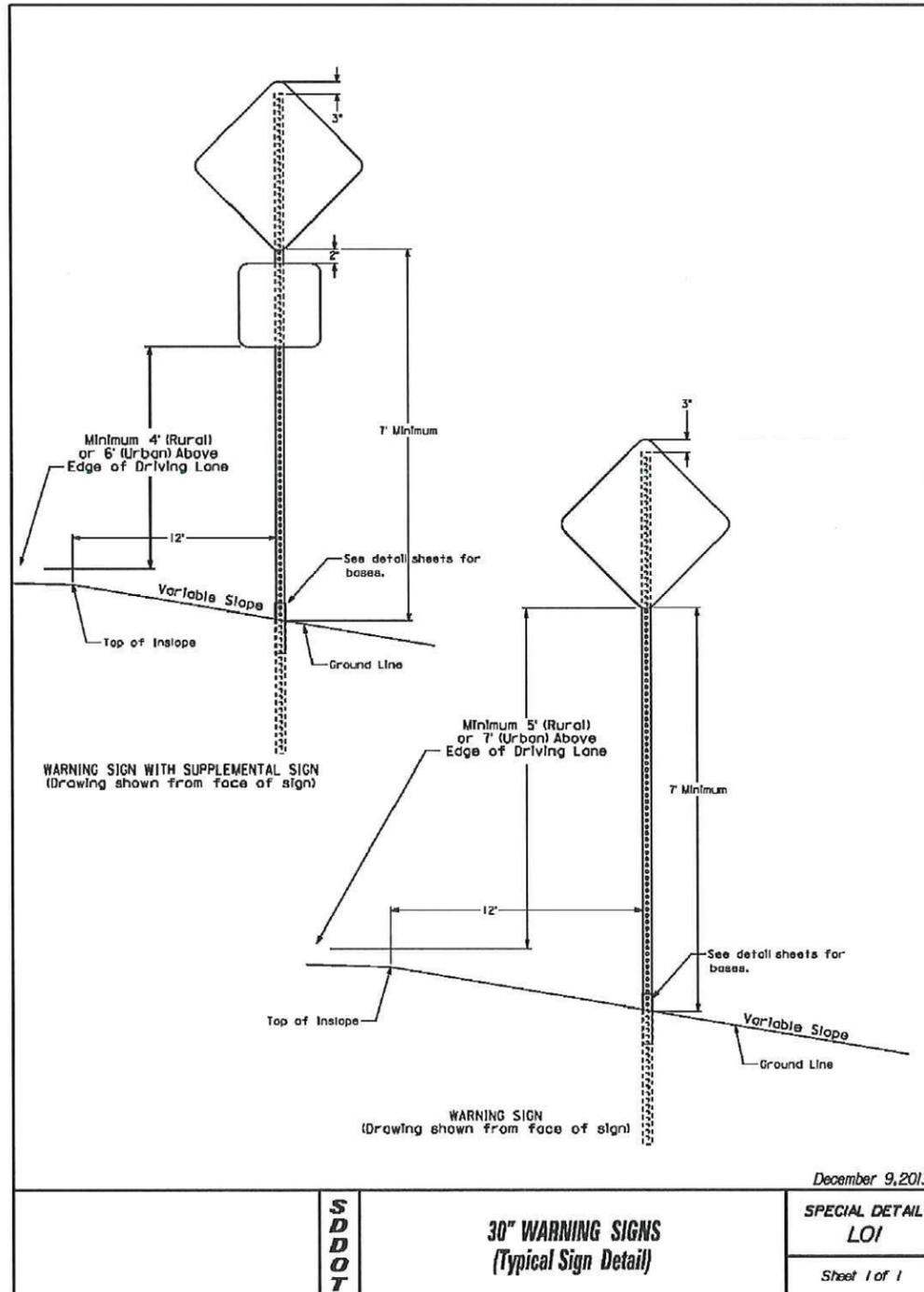


FOR BIDDING PURPOSES ONLY

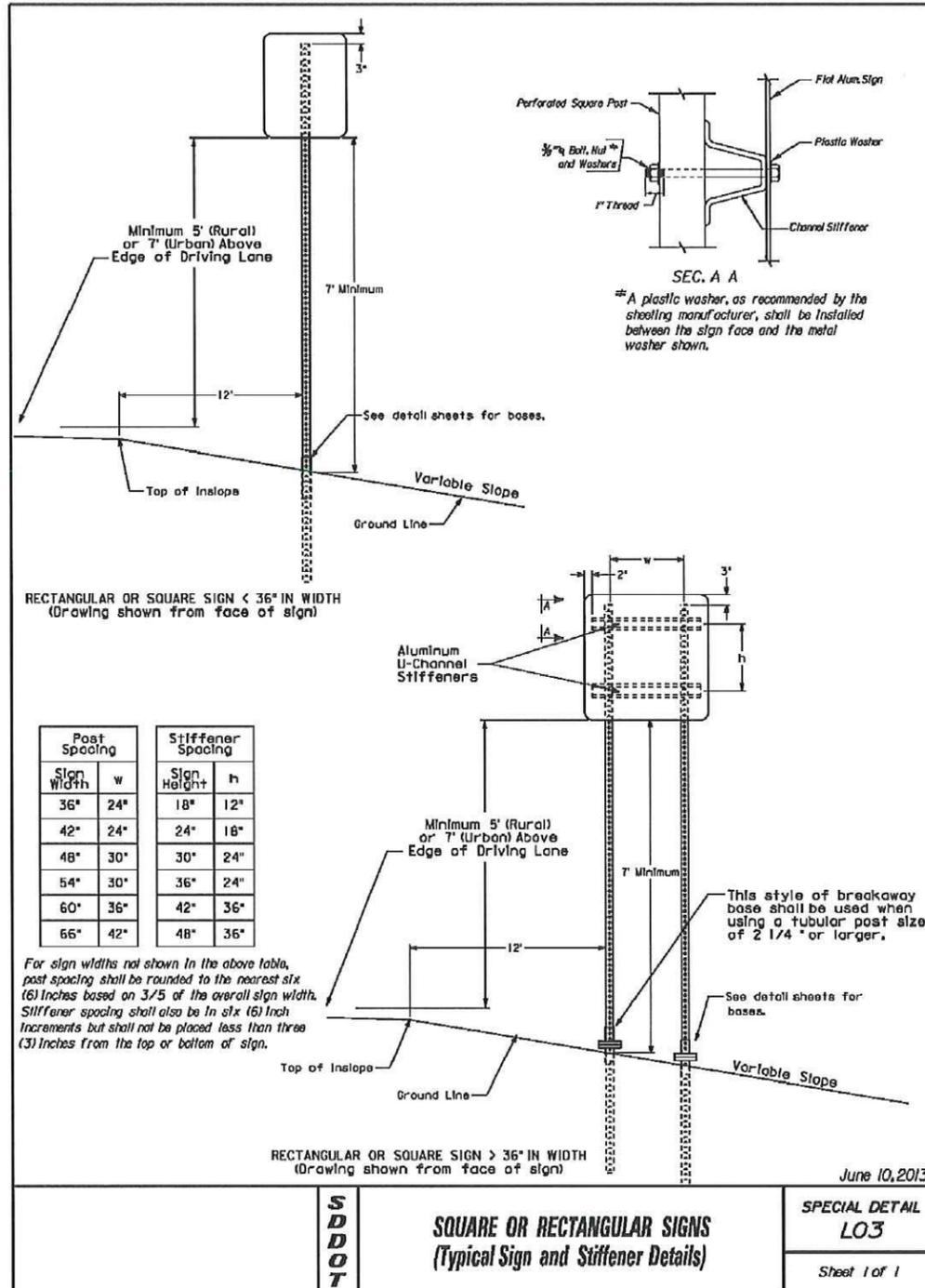
STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S6	S10
PERMANENT SIGNING - CENTURY ROAD			



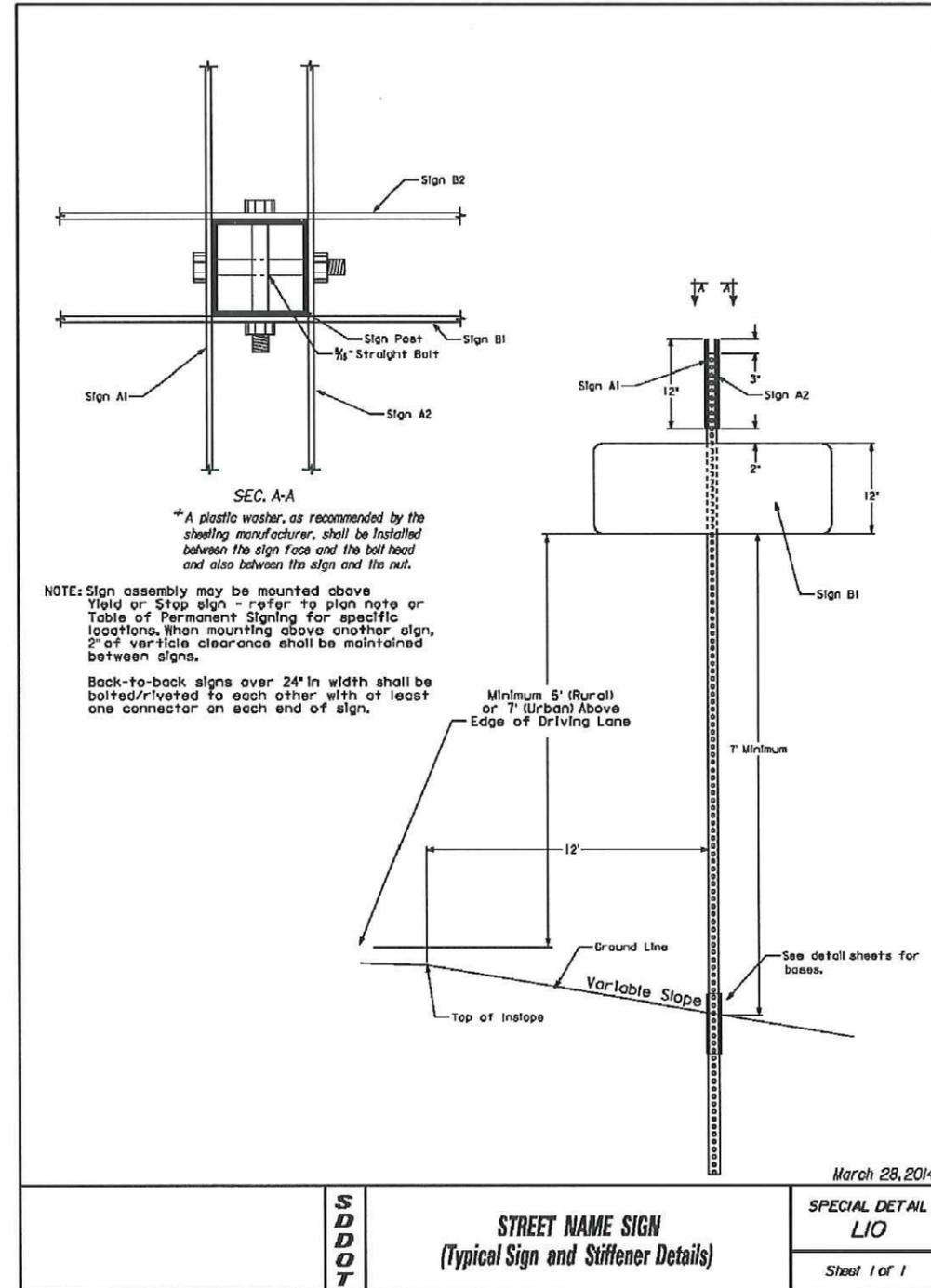
STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S7	S10
SDDOT STANDARD PLATES			



STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	SB	S10
SDDOT STANDARD PLATES			



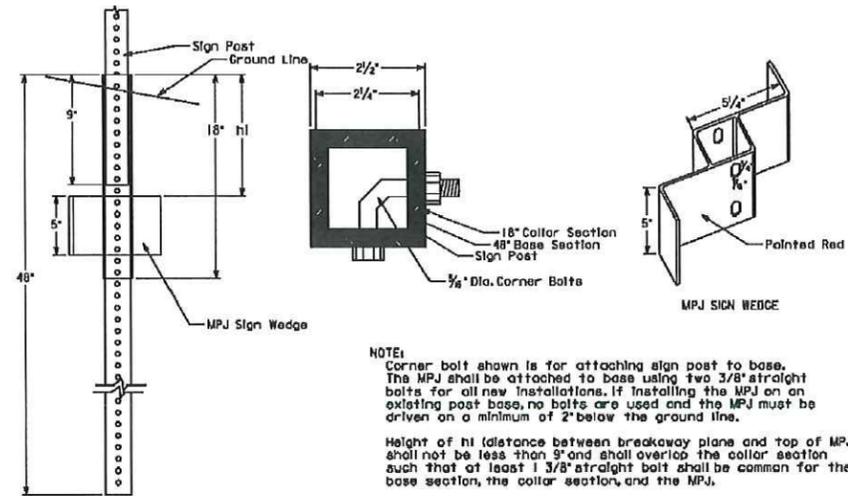
<b>SDDOT</b>	<b>SQUARE OR RECTANGULAR SIGNS</b> (Typical Sign and Stiffener Details)	SPECIAL DETAIL <b>L03</b>
	Sheet 1 of 1	



<b>SDDOT</b>	<b>STREET NAME SIGN</b> (Typical Sign and Stiffener Details)	SPECIAL DETAIL <b>L10</b>
	Sheet 1 of 1	

STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S9	S10
SDDOT STANDARD PLATES			

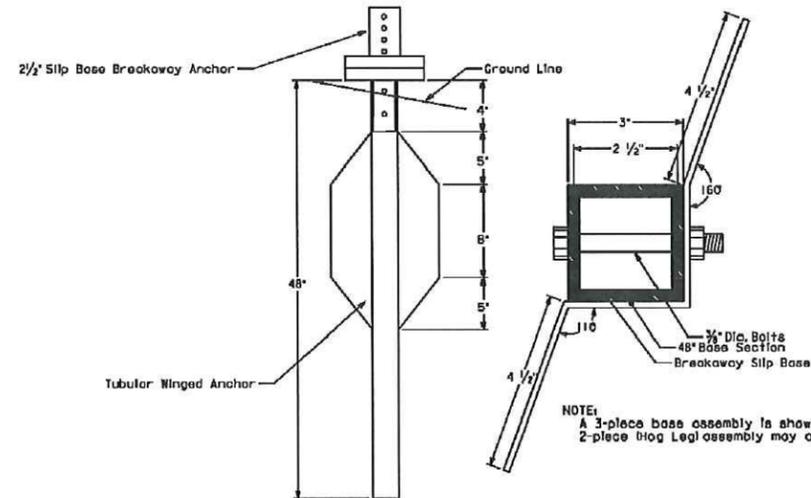
**SIGN BASE DETAILS FOR A 2' SIGN POST**



**NOTE:**  
 Corner bolt shown is for attaching sign post to base. The MPJ shall be attached to base using two 3/8\"/>

Height of hl (distance between breakaway plane and top of MPJ) shall not be less than 9\"/>

**SIGN BASE DETAILS FOR A 2 1/2' SIGN POST**

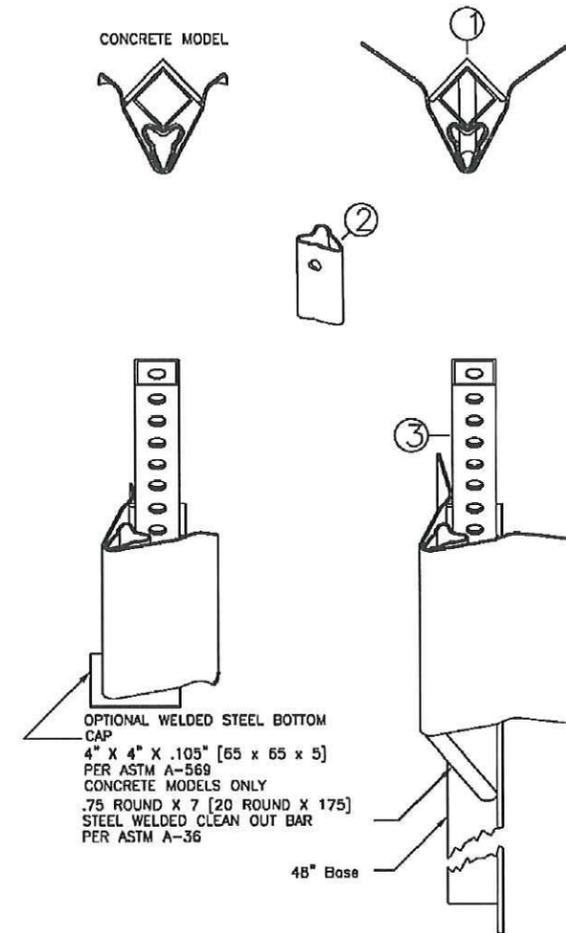


**NOTE:**  
 A 3-piece base assembly is shown, however, a 2-piece big leg assembly may also be used.

March 28, 2014

<b>SDDOT</b>	<b>TUBULAR POST BASE DETAILS</b> (Typical Soil Installation)	<b>SPECIAL DETAIL</b> <b>L21</b>
		Sheet 1 of 1

CONCRETE MODEL



OPTIONAL WELDED STEEL BOTTOM CAP  
 4" X 4" X .105" [65 x 65 x 5]  
 PER ASTM A-569  
 CONCRETE MODELS ONLY  
 .75 ROUND X 7 [20 ROUND X 175]  
 STEEL WELDED CLEAN OUT BAR  
 PER ASTM A-36

February 25, 2013

<b>SDDOT</b>	<b>TUBULAR POST BASE DETAILS</b> (Typical Flush Mount Breakaway Installation)	<b>SPECIAL DETAIL</b> <b>L22</b>
		Sheet 1 of 1

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
	EM 1648(06)	S10	S10
SDDOT STANDARD PLATES			

