

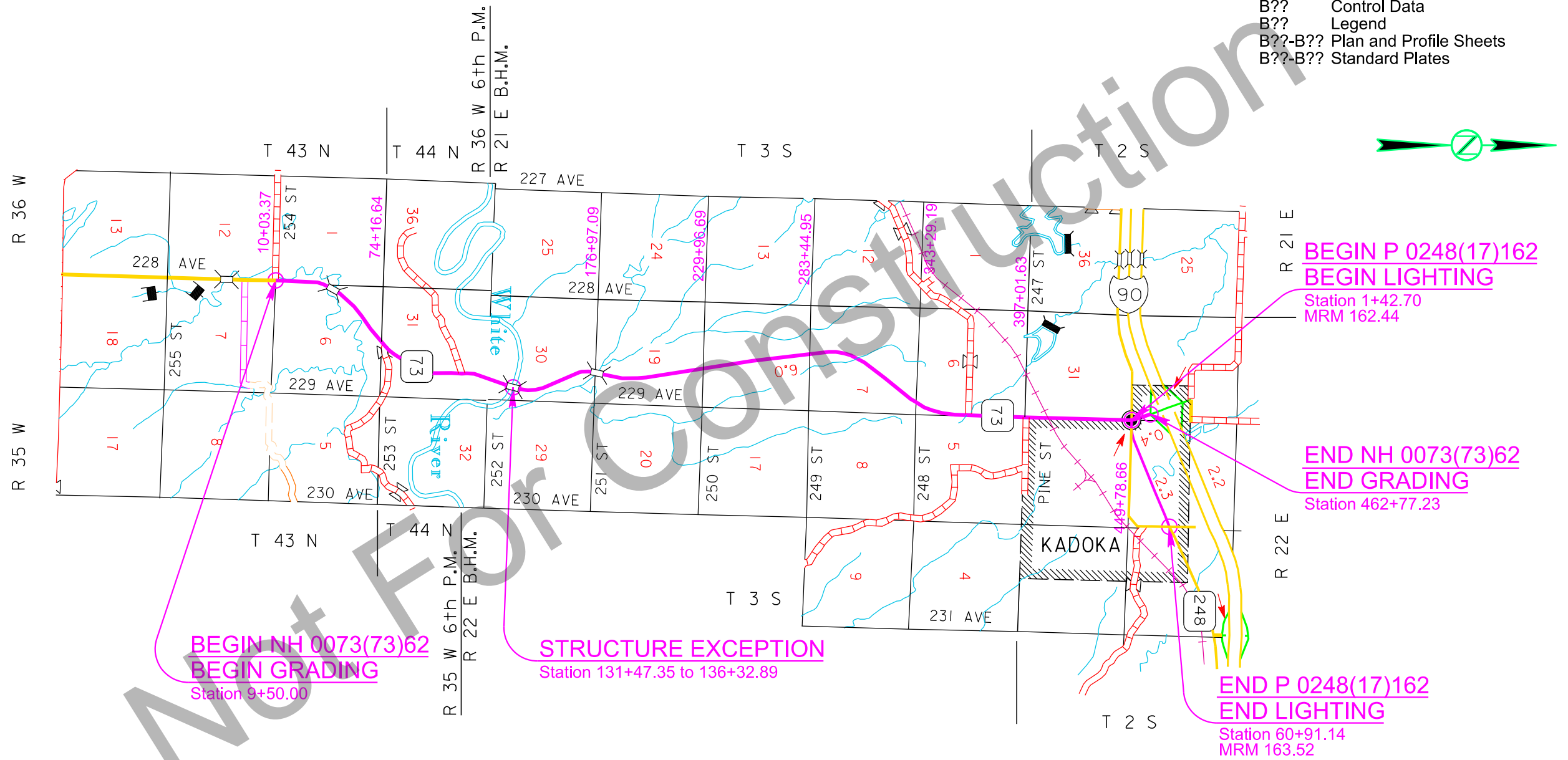
# SECTION B: GRADING PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B1	B45

Plotting Date: 07/14/2021

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- B?? Legend
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Plot Scale - 1:200

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# PIPE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT NH 0073(73)62 P 0248(17)162	SHEET B2	TOTAL SHEETS B45
Plotting Date: 06/29/2022		Rev 06/29/2022 BT	

Station - Offset	Reinforced Concrete														Corrugated Metal								Pipe Transition						
	Circular							Sloped End		Flared End				Safety End		Circular		Flared End		Sloped End		Safety End		Elbow				Round RCP to CMP Transition	
	18" Cl. 2	24" Cl. 2	30" Cl. 2	36" Cl. 2	42" Cl. 2	48" Cl. 2	60" Cl. 2	24"	30"	36"	42"	48"	60"	18"	24"	18" 16 Ga	24" 16 Ga	24"	24"	18"	24"	24"	24"	24"	24"	24"	24"	24"	24"
Ft	Ft	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each
10+00 - 49' L	58													2															
17+79					160						4																		
23+78 - 49' R															62						2								
32+69		78						2																					
48+16		136						2																					
49+62 - 49' L															64						2								
68+12		128						2																					
74+15		64						2																					
82+00		122						2																					
82+12-88' L to 83+70-239' L																224	2					1							
88+75		60						1							94				1							2		1	
92+12		138						2																					
95+35		120						1								80			1						2			1	
107+00 - 49' R															72						2								
107+00 - 49' L															90						2								
108+34		104						2																					
138+16 - 49' R															64						2								
145+56			170						2																				
157+13		146						2																					
166+63						104						2																	
171+10 - 49' L															56						2								
171+10 - 49' R															56						2								
175+63 - 49' L															56						2								
185+62		70						2																					
190+21		66						2																					
196+27		68						2																					
204+41 - 49' R															60						2								
219+92		132						2																					
226+20		112						1							44				1				2					1	
227+81		76						1							76				1					2				1	
231+94		114						1							62				1					2				1	
237+44		64						2																					
241+64		230						2																					
249+63		144						1							60				1				2					1	
259+70		262						2																					
287+86		180						1							90				1				2					1	
294+99		240						2																					
304+99		294						2																					
307+17							328					2																	
316+66		314						2																					
326+36		94						2																					
331+92		110						2																					
340+91			84						2																				
354+88 - 49' R															56						2								
368+04 - 49' R															62						2								
368+08 - 49' L															62						2								
372+37				94						2																			
379+02					118						2																		
<b>Subtotal:</b>	58	3666	254	94	278	104	328	47	4	2	6	2	2	2	0	760	730	2	7	24	1	4	6	4	7				

Plot Scale - 1:200

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# PIPE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT NH 0073(73)62 P 0248(17)162	SHEET B3	TOTAL SHEETS B45
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Plotting Date: 06/29/2022 Rev 06/29/2022 BT

Plot Scale - 1:200

Station - Offset	Reinforced Concrete														Corrugated Metal										Pipe Transition							
	Circular							Sloped End			Flared End				Safety End				Circular		Flared End		Sloped End		Safety End		Elbow				Round RCP to CMP Transition	
	18" Cl. 2	24" Cl. 2	30" Cl. 2	36" Cl. 2	42" Cl. 2	48" Cl. 2	60" Cl. 2	24"	30"	36"	42"	48"	60"	18"	24"	18" 16 Ga	24" 16 Ga	24"	24"	18"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
Ft	Ft	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	
395+76						134						2																				
400+37		202						2																								
403+11 - 49' L															86						2											
407+80 - 49' R															76						2											
413+18						154						2																				
420+72		80						2																								
421+21 - 49' R															76						2											
423+40 - 49' L															62						2											
423+66 - 49' R															76						2											
427+42				86						2																						
438+00 - 49' R		64															2															
442+42 - 49' R		54															2															
443+67 - 49' L	56																			2												
444+93 - 49' L	56																			2												
444+94 - 49' R															130						2											
447+76 - 49' L	70																			2												
448+32		66						2																								
451+33 - 49' L	70																			2												
453+32 - 49' R															56						2											
453+32 - 49' L	72																			2												
455+27 - 49' R	58																			2												
455+43 - 49' L	72																			2												
457+00 - 49' R	58																			2												
457+34 - 49' L	72																			2												
457+79		72						2																								
458+42 - 49' L	72																			2												
458+70 - 49' L	76																			2												
459+86 - 49' L	72																			2												
459+86 - 49' R	74																			2												
<b>Subtotal:</b>	878	538	0	86	0	154	0	8	0	2	0	2	0	26	4	562	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	
<b>Total:</b>	936	4204	254	180	278	258	328	55	4	4	6	4	2	28	4	1322	730	2	7	38	1	4	6	4	4	7						

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# FENCE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT NH 0073(73)62 P 0248(17)162	SHEET B4	TOTAL SHEETS B45
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Plotting Date: 07/06/2022 Rev 4/4/2022 BT

Station to Station		Side (L/R)	Right-of-Way Fence					Temporary Fence		Post Panels		Gates		Remove Fence (Each)
			Type 1	Type 2	Type 3	6' Chainlink	* Type 2 Modified	Type 1A	Type 2	2 Post Panel (Each)	3 Post Panel (Each)	24'	40'	
			Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Barbed Wire (Each)	Barbed Wire (Each)	
9+17.00	9+70.02	L		88					68	2	2			66
10+36.02	33+57.64	L		2379					2397	4	3	1		2339
33+57.64	36+32.91	L		302					282	2	2			332
36+32.91	52+06.05	L		1596					1609	9	4	2		1467
52+06.05	56+99.58	L		496					609		1			564
56+99.58	73+16.31	L		1645					1495	10	3	2		1715
73+16.31	130+70.23	L		5462					5832	6	9	3		5905
151+17.29	168+03.20	L		1645					1660	3	2			
168+03.20	176+90.86	L						1004		8	1	2		
176+90.86	203+42.10	L						2800		4319	9	7	1	2714
203+42.10	230+46.10	L		2646					2958	2	2	1		2669
230+46.10	308+81.44	L						7816		9021	4	10	1	8046
308+81.44	310+14.04	L		136								1		
310+61.69	330+81.79	L		2072					2165	1	1	1		2073
330+61.69	342+71.61	L						789		1161	1	3		1252
342+96.30	370+43.77	L						2308		2718	4	3	1	2786
371+01.54	397+01.97	L								2616				4004
397+01.97	407+88.80	L		1182					1071	2	6	1		1211
407+88.80	410+14.00	L		204				232		1		1		144
410+21.22	412+08.17	L		248					214	2	2			243
412+08.17	416+80.84	L		522					473	1	2			513
416+80.84	423+40.65	L		642					660	3	1	2		673
423+40.65	441+42.72	L		1792					1816	1	2			1802
**441+42.72	442+76.97	L												145
442+76.97	444+22.40	L						151		3	1			111
9+15.00	36+88.92	R		2811					4005	4	6	1		2810
36+88.92	54+03.86	R		1631					1692	9	1	1		1675
54+03.86	55+77.19	R		173					117	1				176
55+77.79	131+39.08	R		8580					8346	13	20	3		8771
134+81.75	137+30.62	R		266					297	3	1			273
137+30.62	148+62.51	R		1472					1433	11	7	1		1350
148+62.51	206+08.92	R		5934					6641	18	9	3		5847
206+08.92	229+57.23	R						2373		1883	2	2		2393
229+57.23	305+19.09	R						7423		7577	10	8		7684
305+19.09	310+08.54	R		573					930		1			573
310+08.54	328+79.35	R		1763					1717	1	1			1902
328+79.35	343+52.78	R						1470		1590	2	2	1	1508
357+91.06	370+61.67	R		1288					1293	1	4	1		1350
370+61.67	396+63.20	R		2699					2662	3	8	2		2799
397+39.37	409+46.12	R		1213					1221	3	4		1	1245
410+52.61	423+39.81	R		1267					1287	2	3		1	1359
423+39.81	433+49.76	R		990					1012	1	2		1	972
433+49.76	442+07.47	R							838	3	1		1	909
<b>TOTALS:</b>			0	53717	0	838	26134	232	86847	165	148	32	4	84370

**Post Type and Sequence:**

Right-of-way fence shall be constructed using alternate wood and steel posts except as noted.

\* See Special Details

\*\* Fence should be removed by Landowner. Landowner should be notified two weeks in advance of grading work so fence can be removed in time for work to be completed.

Plot Scale - 1:200

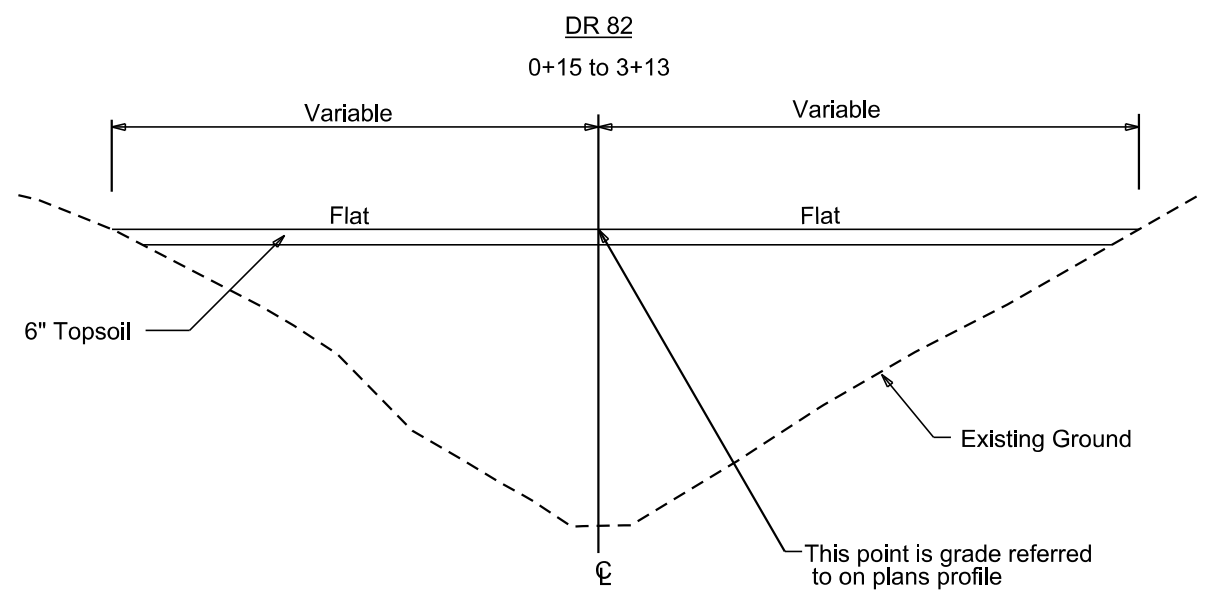
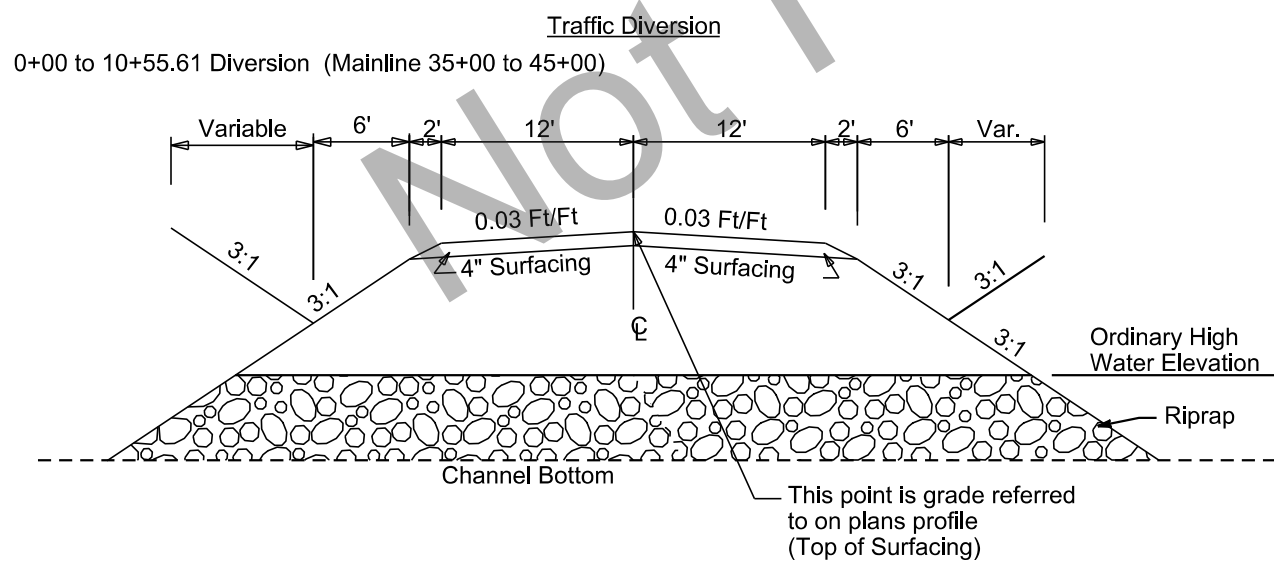
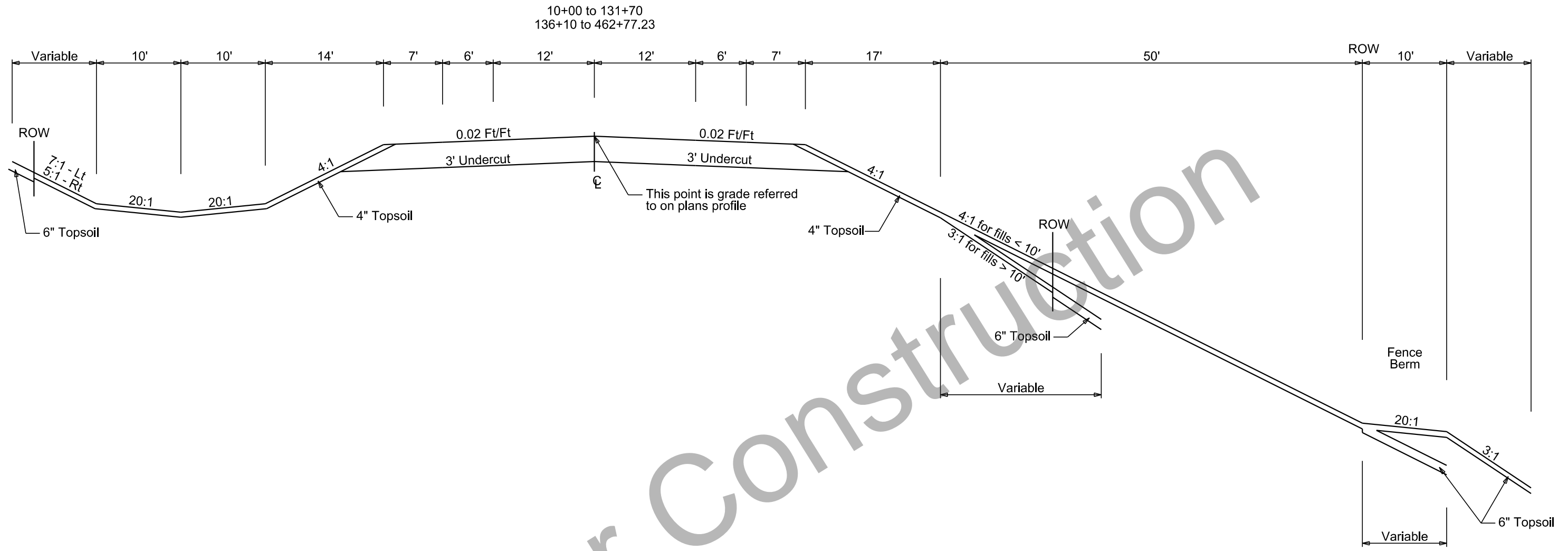
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# TYPICAL GRADING SECTION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B5	B45
Plotting Date: 05/26/2021			



Plot Scale - 1:200

Plotted From - TRPR14341

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# HORIZONTAL ALIGNMENT DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B6	B45

Plotting Date: 07/14/2021

## MAINLINE

Type	Station			Northing	Easting
POB	0+00.00			507731.537	1649075.212
		TL= 2682.51	N 0°47'57" E		
PC	26+82.50			510413.782	1649112.622
PI	40+83.43	R = 2885.00	Delta = 51°48'05" R	511814.574	1649132.160
PT	52+90.85			512665.452	1650245.086
		TL= 2187.56	N 52°36'02" E		
PC	74+78.41			513994.102	1651982.927
PI	80+47.73	R = 2950.00	Delta = 21°50'47" L	514339.888	1652435.206
PT	86+03.22			514829.143	1652726.330
		TL= 829.65	N 30°45'15" E		
PC	94+32.87			515542.118	1653150.577
PI	100+61.78	R = 2360.00	Delta = 29°50'37" L	516082.583	1653472.174
PT	106+62.12			516711.413	1653482.169
		TL= 1003.15	N 0°54'38" E		
PC	116+65.27			517714.441	1653498.112
PI	122+42.06	R = 5729.58	Delta = 11°29'49" R	518291.152	1653507.279
PT	128+14.97			518854.464	1653631.209
		TL= 1107.33	N 12°24'27" E		
PC	139+22.30			519935.931	1653869.134
PI	145+29.49	R = 2040.00	Delta = 33°09'02" L	520528.944	1653999.599
PT	151+02.62			521096.778	1653784.544
		TL= 1698.92	N 20°44'35" W		
PC	168+01.53			522685.566	1653182.824
PI	173+56.30	R = 2130.00	Delta = 29°11'51" R	523204.377	1652986.336
PT	178+86.96			523753.121	1653067.899
		TL= 585.05	N 8°27'16" E		
PC	184+72.01			524331.810	1653153.913
PI	194+12.96	R = 5820.00	Delta = 18°22'04" L	525262.542	1653292.254
PT	203+37.78			526189.449	1653130.258
		TL= 4841.48	N 9°54'48" W		
PC	251+79.25			530958.637	1652296.746
PI	257+18.68	R = 31000.00	Delta = 1°59'38" R	531490.005	1652203.879
PT	262+57.99			532024.282	1652129.555
		TL= 2820.42	N 7°55'11" W		
PC	290+78.41			534817.804	1651740.942
PI	303+01.48	R = 2880.00	Delta = 46°01'11" R	536029.211	1651572.421
PT	313+91.62			536991.690	1652327.102
		TL= 2474.29	N 38°06'00" E		

## MAINLINE (continued)

Type	Station			Northing	Easting
PC	338+65.91			538938.795	1653853.829
PI	351+56.21	R = 3810.00	Delta = 37°25'07" L	539954.178	1654649.992
PT	363+54.13			541244.389	1654665.338
		TL= 8949.16	N 0°40'53" E		
PC	453+03.29			550192.919	1654771.774
PI	457+01.31	R = 1890.00	Delta = 23°47'03" L	550590.905	1654776.508
PT	460+87.86			550957.000	1654620.334
		TL= 189.37	N 23°06'10" W		
POE	462+77.23			551131.180	1654546.030

## DIV 39

Type	Station			Northing	Easting
POB	0+00.00			511218.651	1649239.015
		TL= 16.59	N 17°59'32" E		
PC	0+16.59			511234.428	1649244.139
PI	1+00.03	R = 400.00	Delta = 23°34'03" L	511313.793	1649269.914
PT	1+81.12			511396.844	1649261.807
		TL= 107.06	N 5°34'31" W		
PC	2+88.18			511503.401	1649251.405
PI	5+16.40	R = 400.00	Delta = 59°24'49" R	511730.540	1649229.232
PT	7+02.97			511865.205	1649413.487
		TL= 206.90	N 53°50'18" E		
PC	9+09.87			511987.292	1649580.532
PI	9+73.03	R = 400.00	Delta = 17°56'45" L	512024.560	1649631.524
PT	10+35.16			512075.727	1649668.552
		TL= 36.81	N 35°53'33" E		
POE	10+71.97			512105.547	1649690.133

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (ITRF to NAD 83/11); epoch 2010.00; Geoid 12A; SF = 0.9997996028

Plot Scale - 1:200

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# HORIZONTAL ALIGNMENT DATA

STATE OF SOUTH DAKOTA	PROJECT NH 0073(73)62 P 0248(17)162	SHEET B7	TOTAL SHEETS B45
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Plotting Date: 07/14/2021

### dr82

<u>Type</u>	<u>Station</u>			<u>Northing</u>	<u>Easting</u>
POB	0+00.00			514514.549	1652441.439
		TL= 31.05	N 7°18'42" W		
PI	0+31.05			514545.346	1652437.487
		TL= 254.82	N 7°15'56" W		
PI	2+85.87			514798.121	1652405.260
		TL= 82.67	N 31°45'27" W		
POE	3+68.55			514868.418	1652361.746

### SD Hwy 248

<u>Type</u>	<u>Station</u>			<u>Northing</u>	<u>Easting</u>
POB	1+42.70			549868.841	1654767.920
		TL= 73.10	N 88°26'10" E		
PC	2+15.80			549870.836	1654840.990
PI	6+86.23	R = 2450.00	Delta = 21°44'19" L	549883.674	1655311.250
PT	11+45.35			550069.770	1655743.311
		TL= 4317.89	N 66°41'51" E		
PI	54+63.25			551777.860	1659708.993
		TL= 627.89	N 66°37'07" E		
POE	60+91.14			552027.040	1660285.325

Not For Construction

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (ITRF to NAD 83/11); epoch 2010.00; Geoid 12A; SF = 0.9997996028

Plot Scale - 1:200

Plotted From - TRPR14341

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# CONTROL DATA

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B8	B45

Plotting Date: 05/26/2021

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP 01	5+80.23	67.75' R	5/8" X 5' Rebar & Guards	508310.772	1649151.052	2310.93
CP 02	19+27.45	68.13' R	5/8" X 5' Rebar & Guards	509657.851	1649170.218	2298.83
CP 03	32+59.35	94.23' R	5/8" X 5' Rebar & Guards	510965.932	1649270.168	2281.21
CP 04	47+05.65	149.91' R	5/8" X 5' Rebar & Guards	512167.155	1649932.468	2273.35
CP 05	58+63.34	155.58' R	5/8" X 5' Rebar & Guards	512889.564	1650794.376	2291.55
CP 06	73+40.82	172.48' L	5/8" X 5' Rebar & Guards	514047.563	1651768.868	2290.90
CP 07	85+36.19	74.09' L	5/8" X 5' Rebar & Guards	514811.259	1652628.606	2258.52
CP 08	98+49.39	95.12' R	5/8" X 5' Rebar & Guards	515883.429	1653419.976	2176.17
CP 09	111+89.58	69.96' R	5/8" X 5' Rebar & Guards	517237.699	1653560.501	2140.34
CP 10	126+82.97	100.61' R	5/8" X 5' Rebar & Guards	518705.884	1653703.071	2139.17
CP 11	139+57.61	75.43' R	5/8" X 5' Rebar & Guards	519955.556	1653950.360	2158.53
CP 12	151+48.71	115.39' L	5/8" X 5' Rebar & Guards	521099.017	1653660.307	2172.10
CP 13	164+18.29	206.05' L	5/8" X 5' Rebar & Guards	522254.186	1653125.872	2186.16
CP 14	176+66.84	188.14' L	5/8" X 5' Rebar & Guards	523542.427	1652858.875	2193.29
CP 15	190+06.34	74.56' R	5/8" X 5' Rebar & Guards	524859.032	1653282.599	2252.10
CP 16	203+42.29	72.16' L	5/8" X 5' Rebar & Guards	526181.486	1653058.520	2313.97
CP 17	216+59.81	70.51' L	5/8" X 5' Rebar & Guards	527479.642	1652833.491	2345.69
CP 18	229+80.28	119.61' R	5/8" X 5' Rebar & Guards	528813.132	1652793.617	2335.24
CP 19	240+07.44	147.66' L	5/8" X 5' Rebar & Guards	529779.008	1652353.634	2338.51
CP 20	254+95.48	143.59' L	5/8" X 5' Rebar & Guards	531245.564	1652101.653	2361.64
CP 21	268+32.63	141.61' L	5/8" X 5' Rebar & Guards	532573.898	1651910.765	2370.48
CP 22	282+73.12	96.76' R	5/8" X 5' Rebar & Guards	534033.495	1651948.119	2369.69
CP 23	294+47.26	147.71' L	5/8" X 5' Rebar & Guards	535183.796	1651566.113	2366.75
CP 24	310.03.06	65.92' R	5/8" X 5' Rebar & Guards	536637.351	1652165.586	2364.69
CP 25	321+84.37	71.30' L	5/8" X 5' Rebar & Guards	537659.532	1652760.149	2421.87
CP 26	334+14.01	73.41' R	5/8" X 5' Rebar & Guards	538537.877	1653632.759	2242.43
CP 27	347+39.25	93.67' R	5/8" X 5' Rebar & Guards	539642.010	1654394.496	2452.09
CP 28	360+50.66	65.36' R	5/8" X 5' Rebar & Guards	540935.426	1654714.744	2452.28
CP 29	373+55.80	78.06' L	5/8" X 5' Rebar & Guards	542246.908	1654599.192	2439.61
CP 30	386+97.07	66.72' R	5/8" X 5' Rebar & Guards	543586.363	1654759.919	2451.01
CP 31	397+35.31	206.17' R	5/8" X 5' Rebar & Guards	544622.877	1654911.710	2447.69
CP 32	414+36.71	67.33' L	5/8" X 5' Rebar & Guards	546327.404	1654658.464	2448.93
CP 33	427+88.12	71.02' R	5/8" X 5' Rebar & Guards	547677.074	1654812.880	2463.80
CP 34	439+46.95	70.66' R	5/8" X 5' Rebar & Guards	548835.824	1654826.294	2473.97
CP 35	450+79.31	97.83' L	NGS BM	549970.111	1654671.287	2482.23
CP 36			Brass Cap on NE Wingwall NOT ON PROJECT	551837.840	1654262.981	2490.54
OS0626			N. Side of WB on Ramp NOT ON PROJECT	552068.729	1653845.697	2474.47

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (ITRF to NAD 83/11); epoch 2010.00 Geoid 12A; SF = 0.9997996028  
The elevations shown on this sheet are based on NAVD 88.

Plot Scale - 1:200

Plotted From - TRPR14341

File - ...:\proj\ack05\HV\Data\Control.dgn

# LEGEND

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B9	B45

Plotting Date: 05/26/2021

Plot Scale - 1:200

Plotted From - TRPR14341

Anchor		Highway ROW Marker		Shrub Tree		State and National Line	
Antenna		Interstate Close Gate		Sidewalk		County Line	
Approach		Iron Pin		Sign Face		Section Line	
Assumed Corner		Irrigation Ditch		Sign Post		Quarter Line	
Azimuth Marker		Lake Edge		Slough Or Marsh		Sixteenth Line	
BBQ Grill/ Fireplace		Lawn Sprinkler		Spring		Property Line	
Bearing Tree		Mailbox		Stream Gauge		Construction Line	
Bench Mark		Manhole Electric		Street Marker		ROW Line	
Box Culvert		Manhole Gas		Subsurface Utility Exploration Test Hole		New ROW Line	
Bridge		Manhole Misc		Telephone Fiber Optics		Cut and Fill Limits	
Brush		Manhole Sanitary Sewer		Telephone Junction Box		Control of Access	
Buildings		Manhole Storm Sewer		Telephone Pole		New Control of Access	
Bulk Tank		Manhole Telephone		Television Cable Jct Box		Proposed ROW (After Property Disposal)	
Cattle Guard		Manhole Water		Television Tower			
Cemetery		Merry-Go-Round		Test Wells/Bore Holes			
Centerline		Microwave Radio Tower		Traffic Signal			
Cistern		Misc. Line		Trash Barrel		Drainage Arrow	
Clothes Line		Misc. Property Corner		Tree Belt			
Commercial Sign Double Face		Misc. Post		Tree Coniferous		Remove Concrete Pavement	
Commercial Sign One Post		Overhang Or Encroachment		Tree Deciduous		Remove Concrete Driveway Pavement	
Commercial Sign Overhead		Overhead Utility Line		Tree Stumps		Remove Asphalt Concrete Pavement	
Commercial Sign Two Post		Parking Meter		Triangulation Station		Remove Concrete Sidewalk	
Concrete Symbol		Pedestrian Push Button Pole		Underground Electric Line		Remove Concrete Median Pavement	
Creek Edge		Pipe With End Section		Underground Gas Line		Remove Concrete Curb and/or Gutter	
Curb/Gutter		Pipe With Headwall		Underground High Pressure Gas Line			
Curb		Pipe Without End Section		Underground Sanitary Sewer			
Dam Grade/Dike/Levee		Playground Slide		Underground Storm Sewer			
Deck Edge		Playground Swing		Underground Tank			
Ditch Block		Power And Light Pole		Underground Telephone Line			
Doorway Threshold		Power And Telephone Pole		Underground Television Cable			
Drainage Profile		Power Meter		Underground Water Line			
Drop Inlet		Power Pole		Warning Sign One Post			
Edge Of Asphalt		Power Pole And Transformer		Warning Sign Two Post			
Edge Of Concrete		Power Tower Structure		Water Fountain			
Edge Of Gravel		Propane Tank		Water Hydrant			
Edge Of Other		Property Pipe		Water Meter			
Edge Of Shoulder		Property Pipe With Cap		Water Tower		Detectable Warning	
Elec. Trans./Power Jct. Box		Property Stone		Water Valve		Pedestrian Push Button Pole and 30" x 48" Clear Space with 1.5% slope	
Fence Barbwire		Public Telephone		Water Well			
Fence Chainlink		Railroad Crossing Signal		Weir Rock			
Fence Electric		Railroad Milepost Marker		Windmill			
Fence Misc.		Railroad Profile		Wingwall			
Fence Rock		Railroad ROW Marker		Witness Corner			
Fence Snow		Railroad Signs					
Fence Wood		Railroad Switch					
Fence Woven		Railroad Track					
Fire Hydrant		Railroad Trestle					
Flag Pole		Rebar					
Flower Bed		Rebar With Cap					
Gas Valve Or Meter		Reference Mark					
Gas Pump Island		Regulatory Sign One Post					
Grain Bin		Regulatory Sign Two Post					
Guardrail		Retaining Wall					
Guide Sign One Post		Riprap					
Guide Sign Two Post		River Edge					
Gutter		Rock And Wire Baskets					
Guy Pole		Rockpiles					
Haystack		Satellite Dish					
Hedge		Septic Tank					

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Plot Scale - 1:200

Plotted From - TRPR17192

File - U:\trproj\jack05\HV\000.dgn

10+00-49' L  
Install 18"-58' RCP  
& 2 Safety Ends

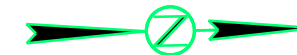
17+79  
Take Out 30"-89' RCP  
(Incidental Work, Grading)  
17+79 (64 ac)  
Install Twin 42"-80' RCP  
(Spaced 24' C to C)  
& 4 Flared Ends

23+79-47' R  
Take Out 18"-56' CMP  
(Incidental Work, Grading)  
23+78-49' R  
Install 18"-58' CMP  
& 2 Safety Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B10	B45

Plotting Date: 06/29/2022 Rev 06/29/2022 BT

23+80 L  
Refurbish Single Mailbox



Sec 12 - T43N - R36W

NE1/4

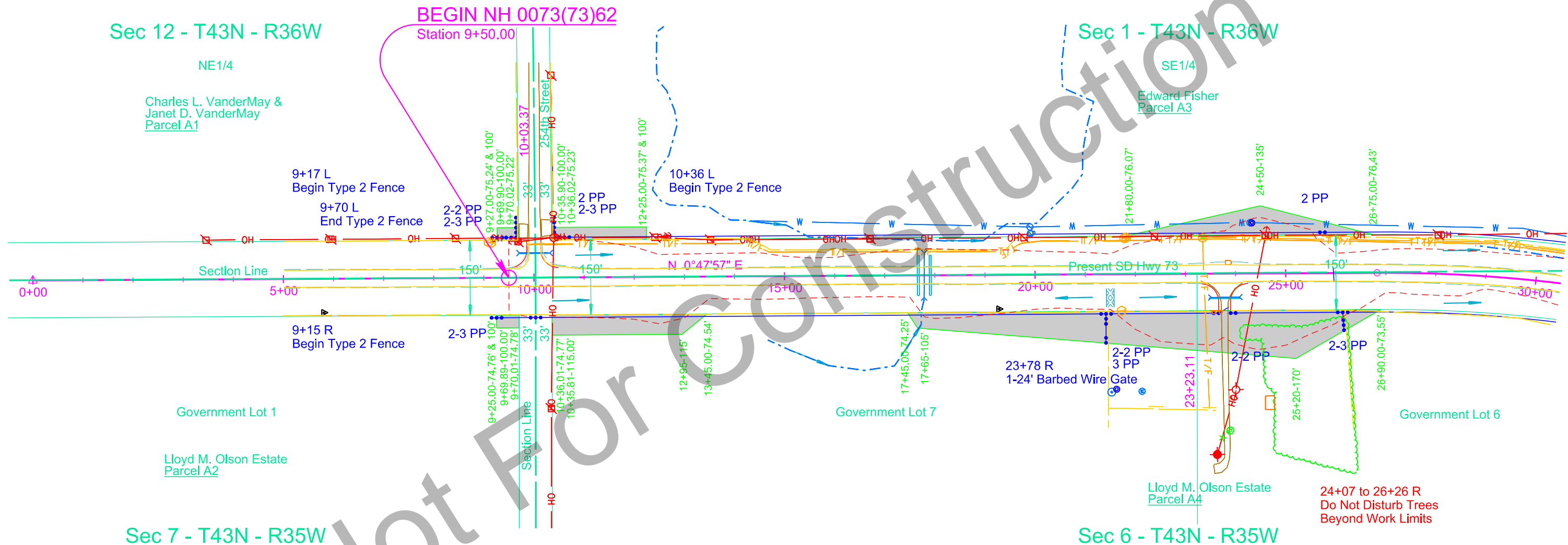
Charles L. VanderMay &  
Janet D. VanderMay  
Parcel A1

BEGIN NH 0073(73)62  
Station 9+50.00

Sec 1 - T43N - R36W

SE1/4

Edward Fisher  
Parcel A3



Parcel A1  
9+27.00 to 9+70.02 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A3  
10+35.90 to 12+25.00 L  
Temporary Easement containing  
0.1 ac, more or less

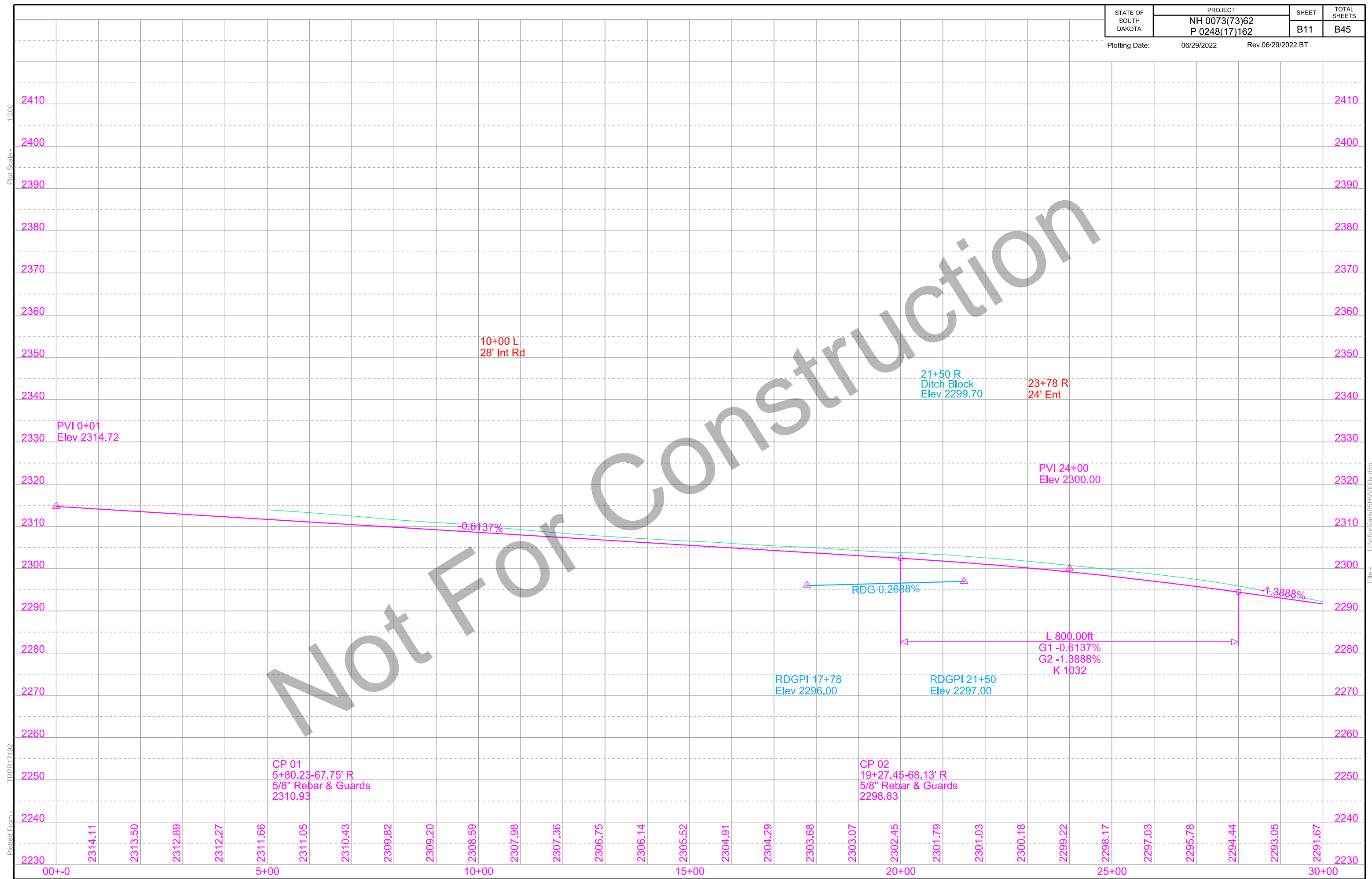
Parcel A3  
21+80.00 to 26+75.00 L  
Temporary Easement containing  
0.3 ac, more or less

Parcel A2  
9+25.00 to 9+70.01 R  
Temporary Easement containing  
0.1 ac, more or less

Parcel A4  
10+36.01 to 13+45.00 R  
Temporary Easement containing  
0.3 ac, more or less

Parcel A4  
17+45.00 to 26+90.00 R  
Temporary Easement containing  
1.3 ac, more or less

Not For Construction



Plot Scale - 1:200

Plotted From - TRPRt17192

File - U:\proj\jack05\HV\000.v.dgn



32+69  
Take Out 18"-60' RCP  
(Incidental Work, Grading)

32+69 (4 ac)  
Install 24"-78' RCP  
& 2 Sloped ends

39+51  
Take Out 20'x8'-64' RCBC  
(Incidental Work, Structure)

39+51  
Alternate A  
Install Double 10' x 9' RCBC (C.I.P.)  
Alternate B  
Install Double 11' x 9' RCBC (Precast)  
(See Section E)

48+16  
Take Out 18"-111' RCP  
(Incidental Work, Grading)

48+16 (13 ac)  
Install 24"-136' RCP  
& 2 Sloped Ends

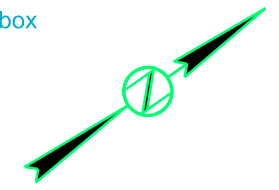
49+61-49' L  
Take Out 18"-60' RCP  
(Incidental Work, Grading)

49+62-49' L  
Install 18"-64' CMP  
& 2 Safety Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B12	B45

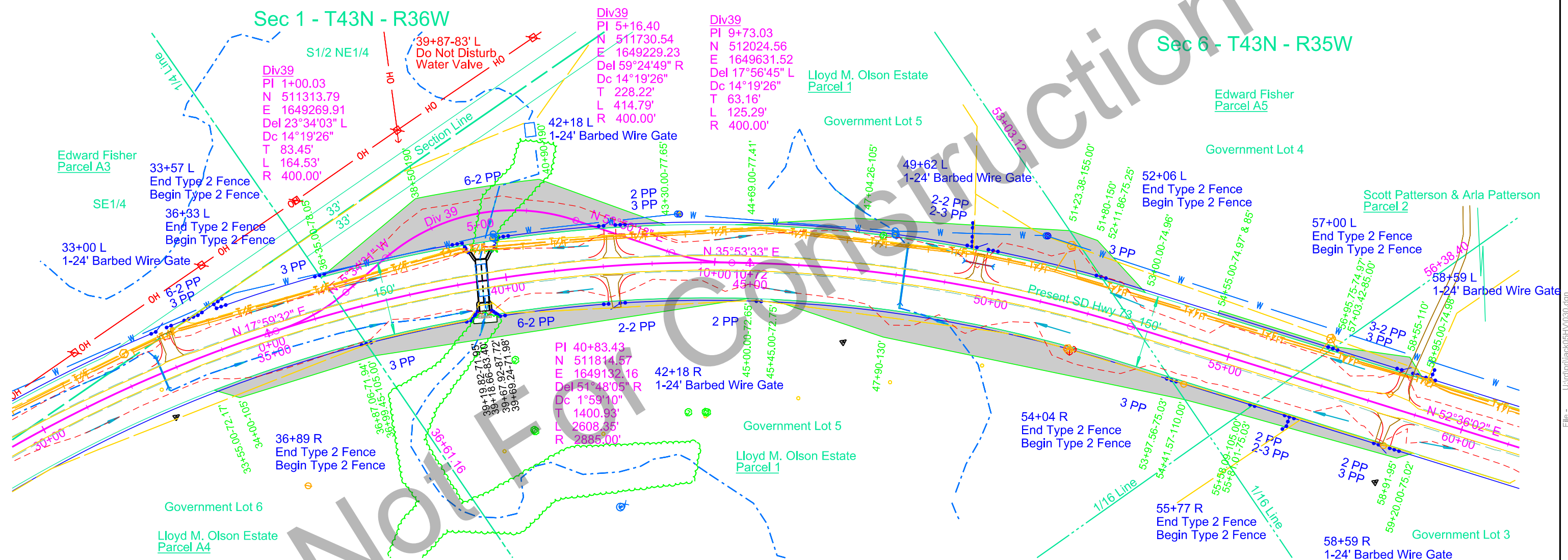
Plotting Date: 11/24/2021 Rev 11/24/2021 BT

58+39 L  
Refurbish Single Mailbox



### Sec 1 - T43N - R36W

### Sec 6 - T43N - R35W



Parcel 1  
36+35.00 to 43+30.00 L  
Temporary Easement containing  
1.2 ac, more or less

Parcel A5  
51+23.38 to 53+00.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel 2  
56+95.75 to 58+95.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel 1  
44+69.00 to 52+11.86 L  
Temporary Easement containing  
0.6 ac, more or less

Parcel A5  
54+55.00 to 57+03.42 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A4  
33+55.00 to 36+99.45 R  
Temporary Easement containing  
0.2 ac, more or less

Parcel 1  
36+87.06 to 45+00.00 R  
Temporary Easement containing  
0.6 ac, more or less

Parcel 1  
45+45.00 to 54+41.57 R  
Temporary Easement containing  
1.0 ac, more or less

Parcel A5  
53+97.56 to 55+81.01 R  
Temporary Easement containing  
0.1 ac, more or less

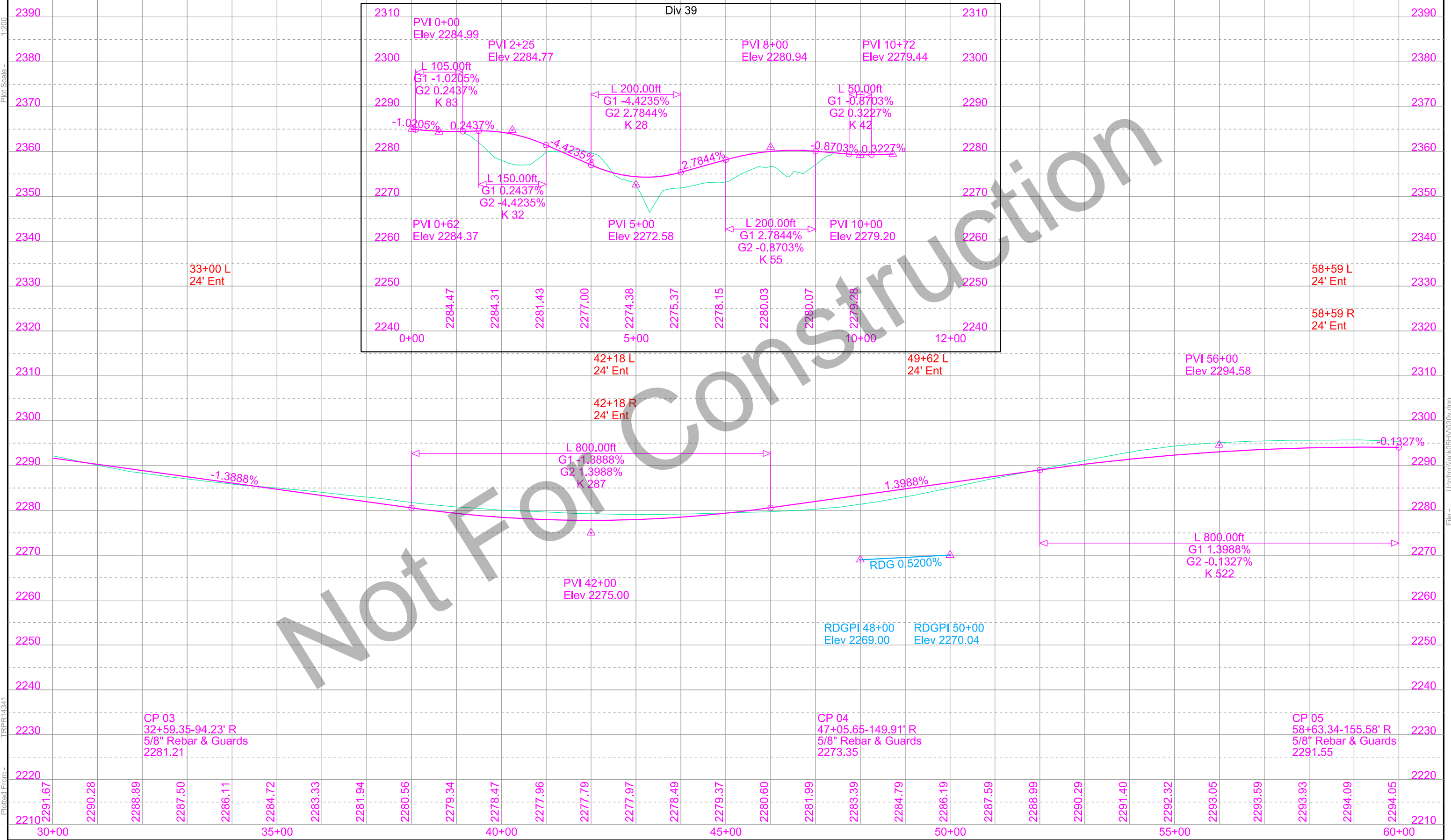
Parcel 2  
55+58.09 to 59+20.00 R  
Temporary Easement containing  
0.2 ac, more or less

Plot Scale - 1:200

Plotted From - TRPR17192

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Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B14	B45

Plotting Date: 06/29/2022 Rev 06/29/2022 BT

**67+87**  
Take Out 4'x6'-54' Cattle Pass  
(Incidental Work, Grading)

67+87  
Install 5'x7'-80' RC Cattle Pass  
& 2 End Sections

68+12 (10 ac)  
Install 24"-128' RCP  
& 2 Sloped Ends

**74+15**  
Take Out 18"-60' RCP  
(Incidental Work, Grading)

74+15 (3 ac)  
Install 24"-64' RCP  
& 2 Sloped Ends

**82+15**  
Take Out 18"-168' CMP  
(Incidental Work, Grading)

82+00 (6 ac)  
Install 24"-122' RCP  
(Skewed 19° RHF)  
& 2 Sloped Ends

82+12-88' L to 83+70-239' L (6 ac)  
(0+48-0' L to 2+64-0' L - dr82)  
Install 24"-224' CMP (12' & 200')  
& 1-12.5° Elbow  
& 2 Flared ends

83+70-239' L  
(2+64-0' L - dr82)  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

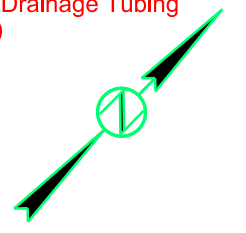
**88+75**  
Take Out 24"-165' CMP  
(Incidental Work, Grading)

88+75 (3 ac)  
Install 24"-60' RCP  
Install 24"-94' CMP (10' & 84')  
And 2-20" CMP Elbows  
& 1-24" RCP to CMP Outlet Transition  
& 1 RCP Sloped End  
& 1 CMP Sloped End

88+75 L  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

**89+66 L & R**  
Remove Headwalls for Reset at Station 91+00

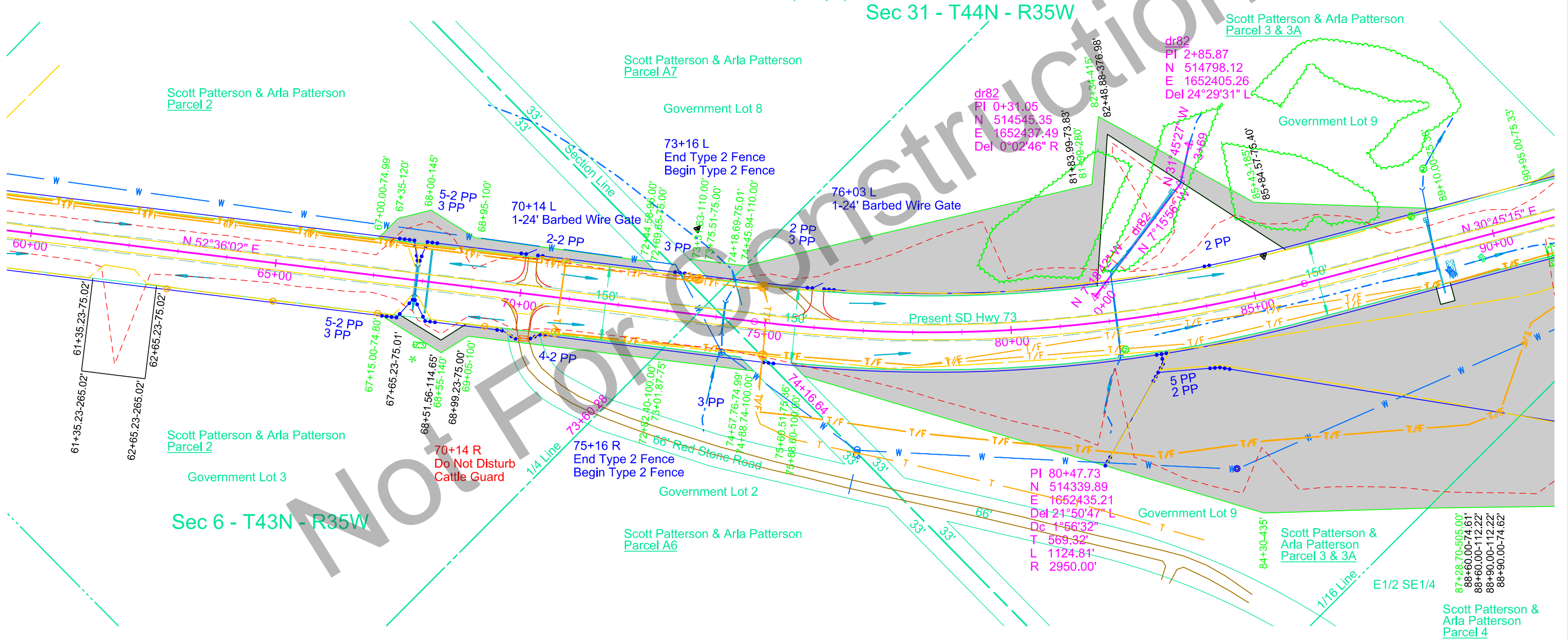
**89+66**  
Take Out 4" Polyethylene Drainage Tubing  
(Incidental Work, Grading)



Plot Scale - 1:200

Plotted From - TRPR17192

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**Parcel 2**  
67+00.00 to 72+69.65 L  
Temporary Easement containing  
0.4 ac, more or less

**Parcel A7**  
73+31.63 to 74+45.94 L  
Temporary Easement containing  
0.1 ac, more or less

**Parcel 3**  
74+18.69 to 89+10.00 L  
Temporary Easement containing  
3.1 ac, more or less

**Parcel 2**  
67+15.00 to 73+01.87 R  
Temporary Easement containing  
0.3 ac, more or less

**Parcel A6**  
72+82.40 to 74+88.74 R  
Temporary Easement containing  
0.1 ac, more or less

**Parcel 3**  
75+60.51 to 93+47.92 R  
Temporary Easement containing  
9.1 ac, more or less

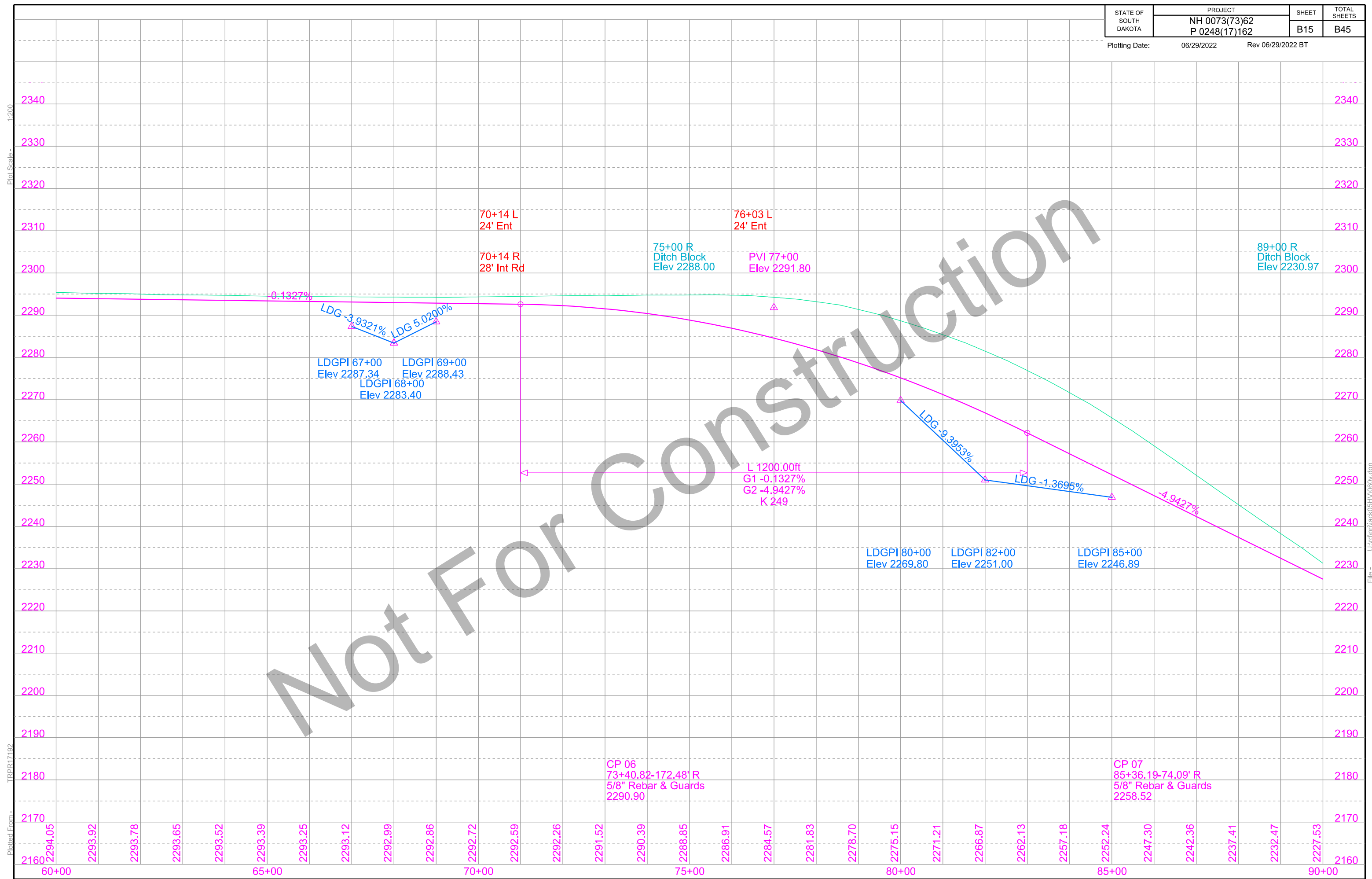
**Parcel 4**  
87+28.70 to 91+00.00 R  
Temporary Easement containing  
1.2 ac, more or less

PI 80+47.73  
N 514339.89  
E 1652435.21  
Del 21°50'47" L  
Dc 1°56'32"  
T 569.32'  
L 1124.81'  
R 2950.00'

dr82  
PI 2+85.87  
N 514798.12  
E 1652405.26  
Del 24°29'31" L

dr82  
PI 0+31.05  
N 514545.35  
E 1652437.49  
Del 0°02'46" R

87+28.70-505.00'  
88+60.00-74.61'  
88+60.00-112.22'  
88+90.00-112.22'  
88+90.00-74.62'



Not For Construction

Plot Scale - 1:200

Plotted From - TRPR17192

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92+12  
Take Out 24"-344' CMP  
(Incidental Work, Grading)

92+12 (2 ac)  
Install 24"-138' RCP  
& 2 Sloped Ends

91+00  
Install Cutoff Drain  
(See Details & Section X)

91+00 L & R  
Reset Headwalls

101+00  
Install Cutoff Drain with  
Concrete Headwall Left  
(See Details & Section X)

95+35  
Take Out 24"-135' CMP  
(Incidental Work, Grading)

95+35 (5 ac)  
Install 24"-120' RCP  
Install 24"-80' CMP (10' & 70')  
& 2-17.5° CMP Elbows  
& 1-24" RCP to CMP Outlet Transition  
& 1 RCP Sloped End  
& 1 CMP Sloped End

95+35 L  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

106+98-64' R  
Take Out 18"-44' RCP  
(Incidental Work, Grading)

107+00-49' R  
Install 18"-72' CMP  
& 2 Safety Ends

107+00-69' L  
Take Out 18"-44' RCP  
(Incidental Work, Grading)

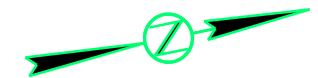
107+00-49' L  
Install 18"-90' CMP  
& 2 Safety Ends

108+34  
Take Out 24"-82' RCP  
(Incidental Work, Grading)

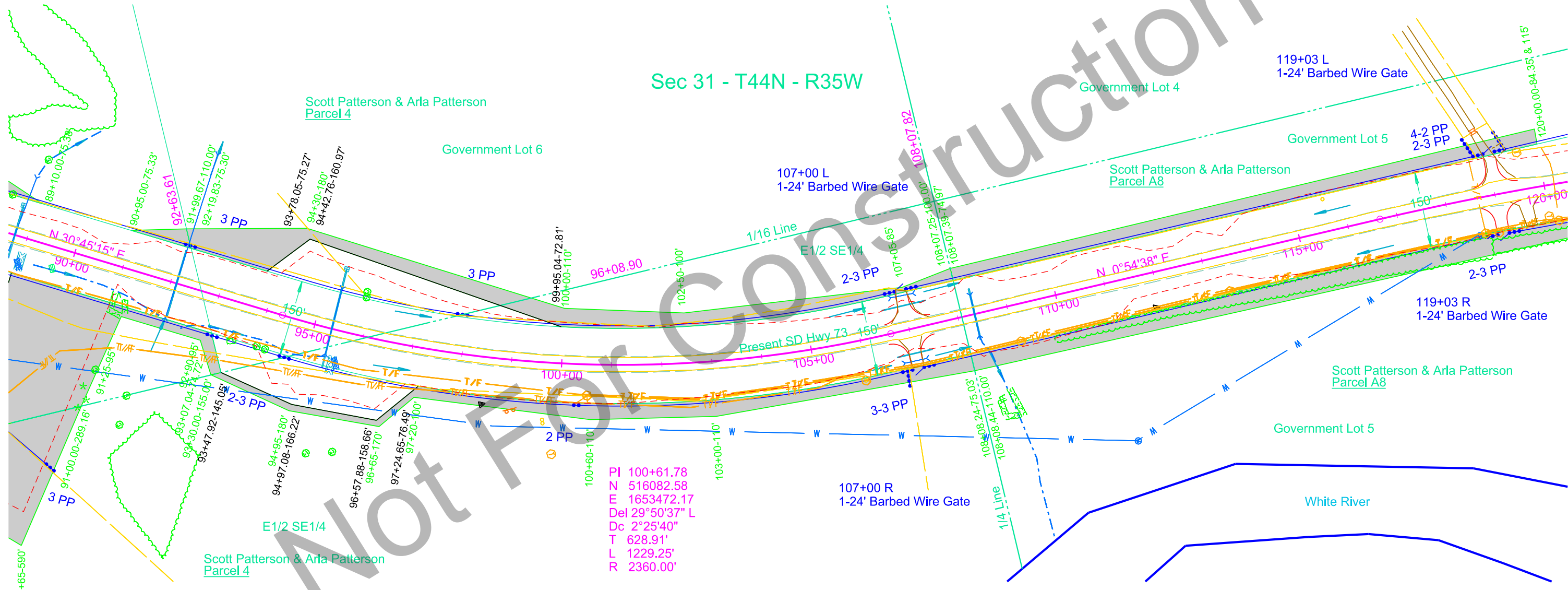
108+34 (7 ac)  
Install 24"-104' RCP  
& 2 Sloped Ends

STATE OF SOUTH DAKOTA	PROJECT NH 0073(73)62 P 0248(17)162	SHEET B16	TOTAL SHEETS B45
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Plotting Date: 09/15/2021 Rev 09/15/2021 BFD



### Sec 31 - T44N - R35W



PI 100+61.78  
N 516082.58  
E 1653472.17  
Del 29°50'37" L  
Dc 2°25'40"  
T 628.91'  
L 1229.25'  
R 2360.00'

**Parcel 3**  
90+95.00 to 92+19.83 L  
Temporary Easement containing  
0.1 ac, more or less

**Parcel 4**  
91+99.67 to 108+07.39 L  
Temporary Easement containing  
1.2 ac, more or less

**Parcel A8**  
108+07.25 to 120+00.00 L  
Temporary Easement containing  
0.8 ac, more or less

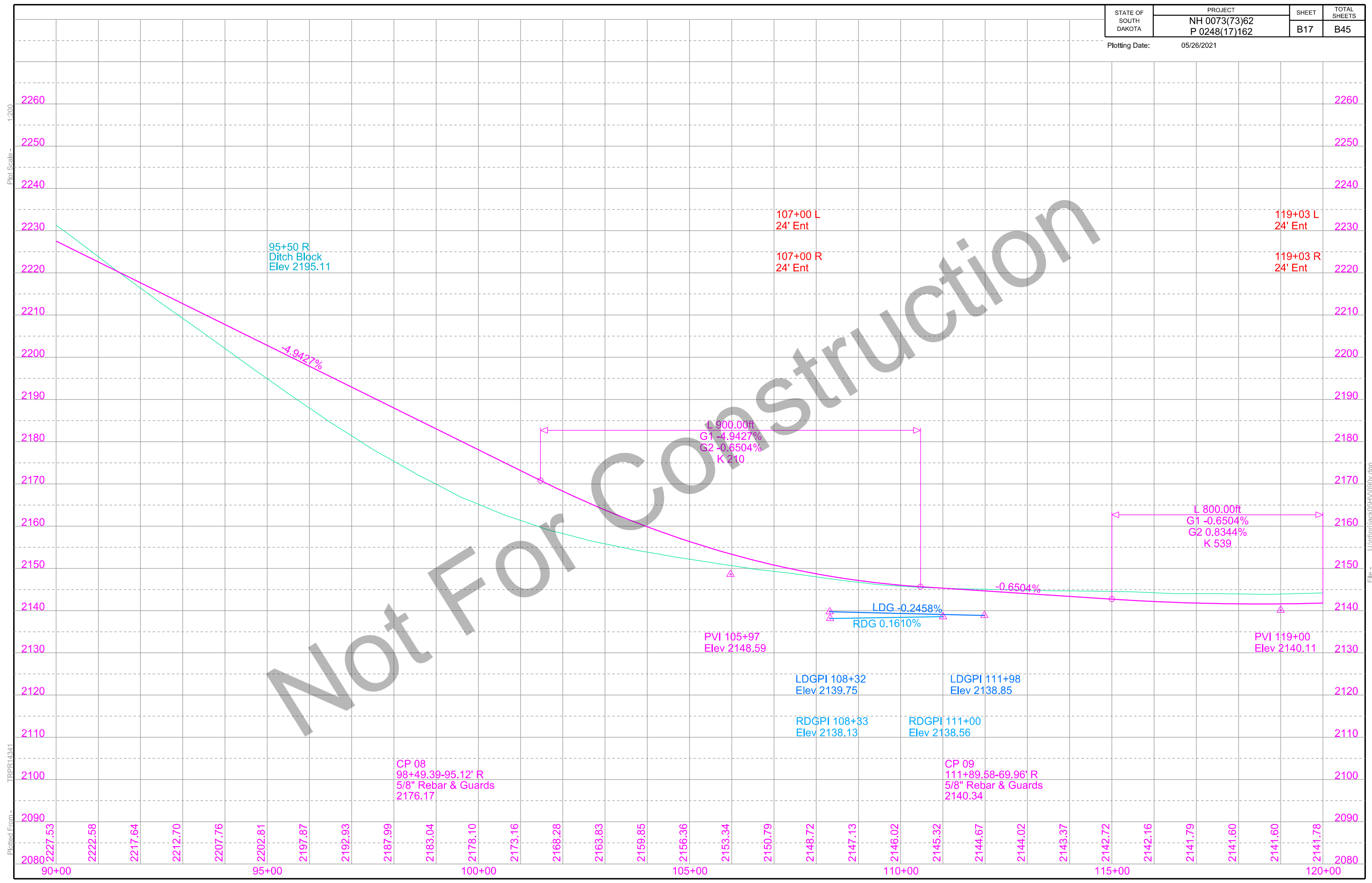
**Parcel 4**  
93+30.00 to 108+08.44 R  
Temporary Easement containing  
0.8 ac, more or less

**Parcel A8**  
108+08.24 to 124+45.00 R  
Temporary Easement containing  
1.3 ac, more or less

Plot Scale - 1:200

Plotted From - TRPR14341

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Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jack05\HV030v.dgn



Retain Drop Inlets  
at the following locations:  
131+59 L  
131+58 R  
  
131+58 R  
Retain 12" CMP

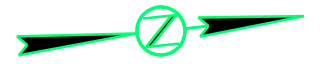
131+47.35 to 136+32.89  
Retain Bridge and Approach Slabs  
  
131+59  
Retain 12" RCP

138+14-65' R  
Take Out 18"-78' CMP  
(Incidental Work, Grading)  
  
138+16-49' R  
Install 18"-64' CMP  
& 2 Safety Ends

145+56  
Take Out 24"-189' CMP  
(Incidental Work, Grading)  
  
145+56 (24 ac)  
Install 30"-170' RCP  
& 2 Sloped Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B18	B45
Plotting Date: 06/29/2022		Rev 06/29/2022 BT	

139+45 L  
Refurbish Double Mailbox

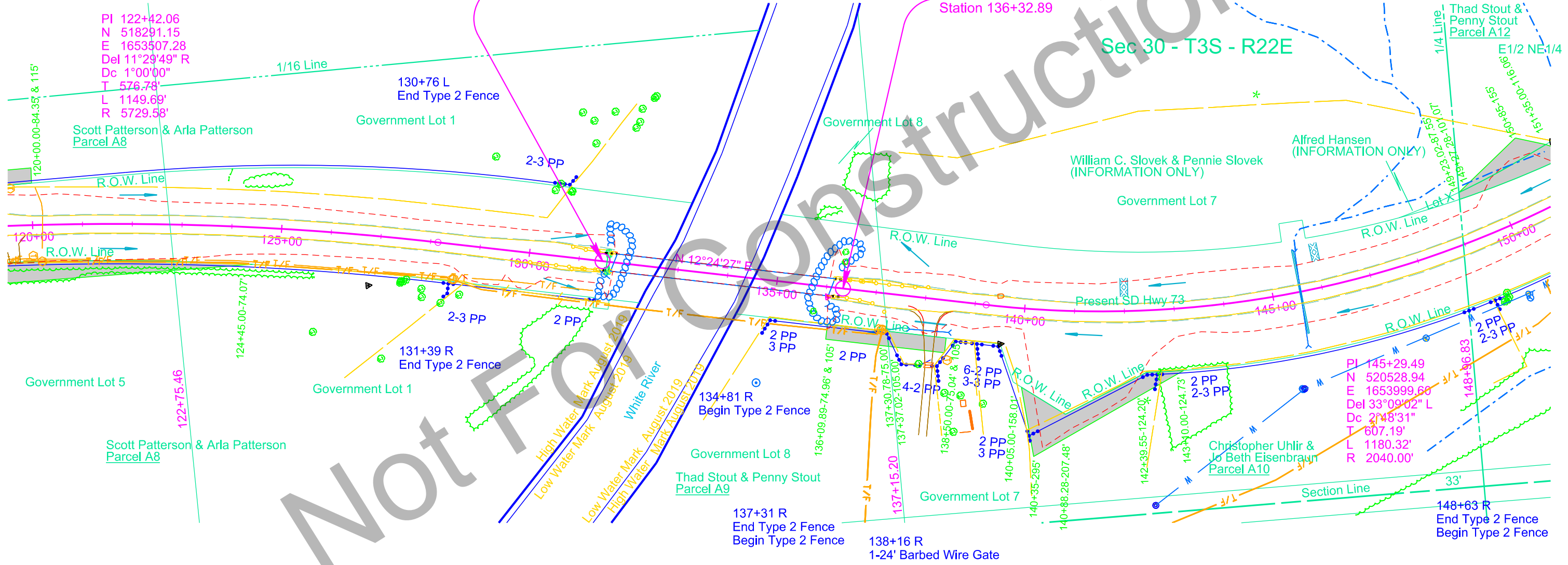


Sec 31 - T44N - R35W

END GRADING  
BEGIN STRUCTURE EXCEPTION  
Station 131+47.35

END STRUCTURE EXCEPTION  
BEGIN GRADING  
Station 136+32.89

Sec 30 - T3S - R22E



Parcel A11  
149+23.02 to 155+45.00 L  
Temporary Easement containing  
0.3 ac, more or less

Parcel A12  
149+27.28 to 151+35.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A9  
136+09.89 to 137+37.02 R  
Temporary Easement containing  
0.1 ac, more or less

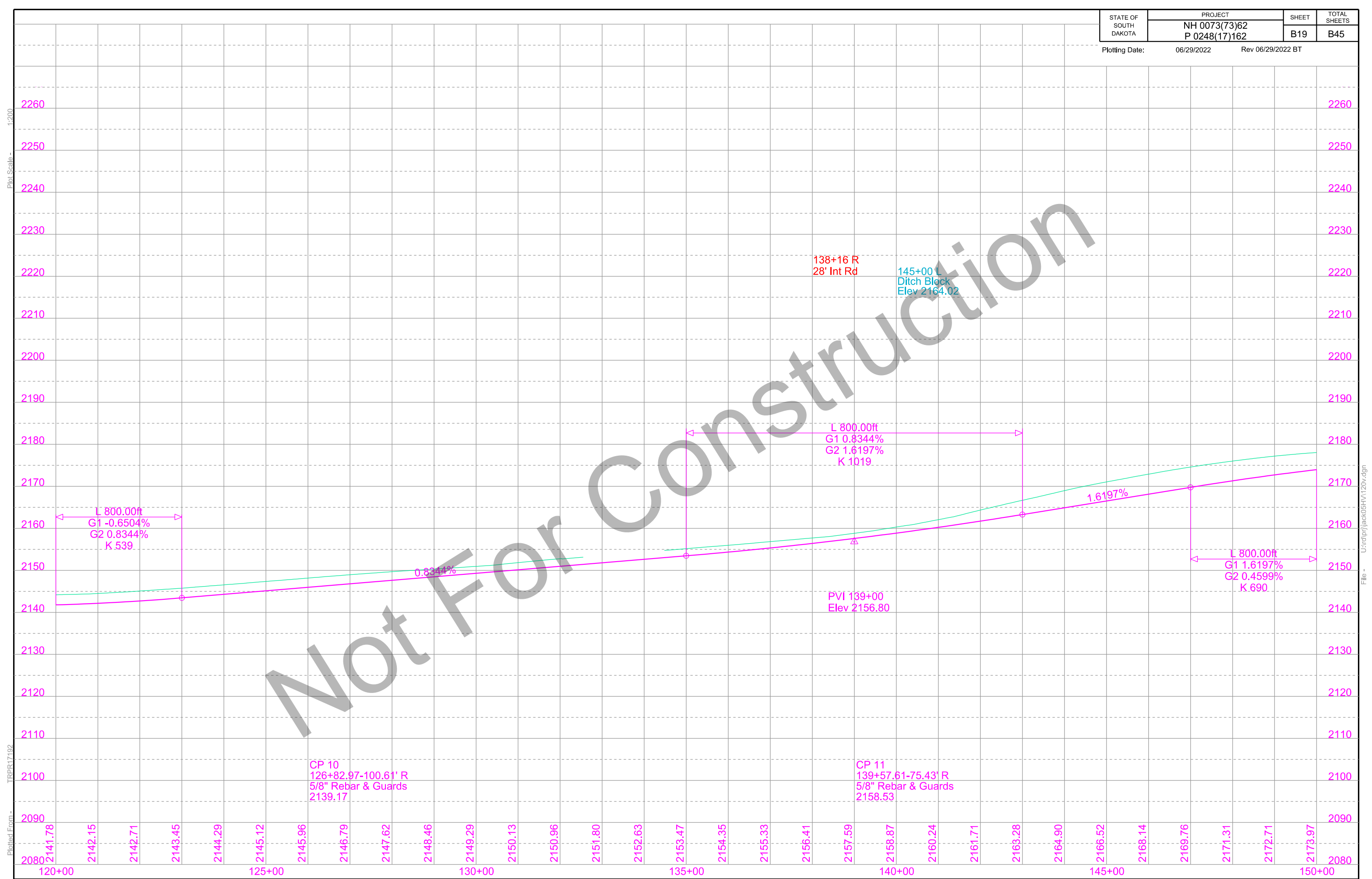
Parcel A10  
137+30.78 to 138+50.00 R  
Temporary Easement containing  
0.1 ac, more or less

Parcel A10  
140+05.00 to 143+10.00 R  
Temporary Easement containing  
0.4 ac, more or less

Plot Scale - 1:200

Plotted From - TRPR17192

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Not For Construction

Plot Scale - 1:200

Plotted From - TRPR17192

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157+13  
Take Out 24"-154' RCP  
(Incidental Work, Grading)

157+13 (20 ac)  
Install 24"-146' RCP  
& 2 Sloped Ends

157+13 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

166+63  
Take Out 36"-117' RCP  
(Incidental Work, Grading)

166+63 (89 ac)  
Install 48"-104' RCP  
& 2 Flared ends

166+63 R  
Install Bank and Channel  
Protection Gabions (12.0 CuYd)  
and Type B Drainage Fabric  
(34 SqYd)

171+11-56' L  
Take Out 18"-61' CMP  
(Incidental Work, Grading)

171+12-54' R  
Take Out 18"-70' CMP  
(Incidental Work, Grading)

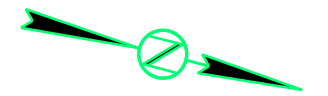
171+10-49' L  
Install 18"-56' CMP  
& 2 Safety Ends

175+61-54' L  
Take Out 18"-69' CMP  
(Incidental Work, Grading)

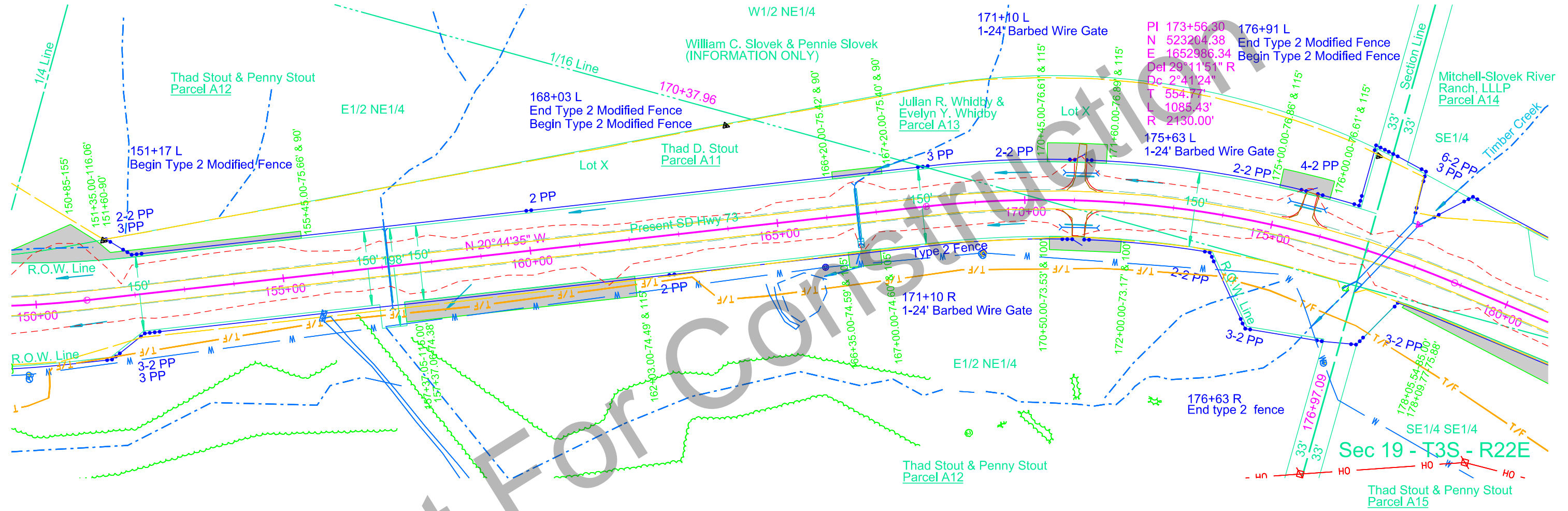
171+10-49' R  
Install 18"-56' CMP  
& 2 Safety Ends

175+63-49' L  
Install 18"-56' CMP  
& 2 Safety Ends

177+37  
Retain 166' Box Culvert



Sec 30 - T3S - R22E



Not For Construction

Parcel A11  
166+20.00 to 167+20.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A13  
170+45.00 to 171+60.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A13  
175+00.00 to 176+00.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A12  
157+37.05 to 162+03.00 R  
Temporary Easement containing  
0.4 ac, more or less

Parcel A12  
166+35.00 to 167+00.00 R  
Temporary Easement containing  
0.1 ac, more or less

Parcel A12  
170+50.00 to 172+00.00 R  
Temporary Easement containing  
0.1 ac, more or less

Parcel A15  
178+05.54 to 203+12.40 R  
Temporary Easement containing  
8.0 ac, more or less

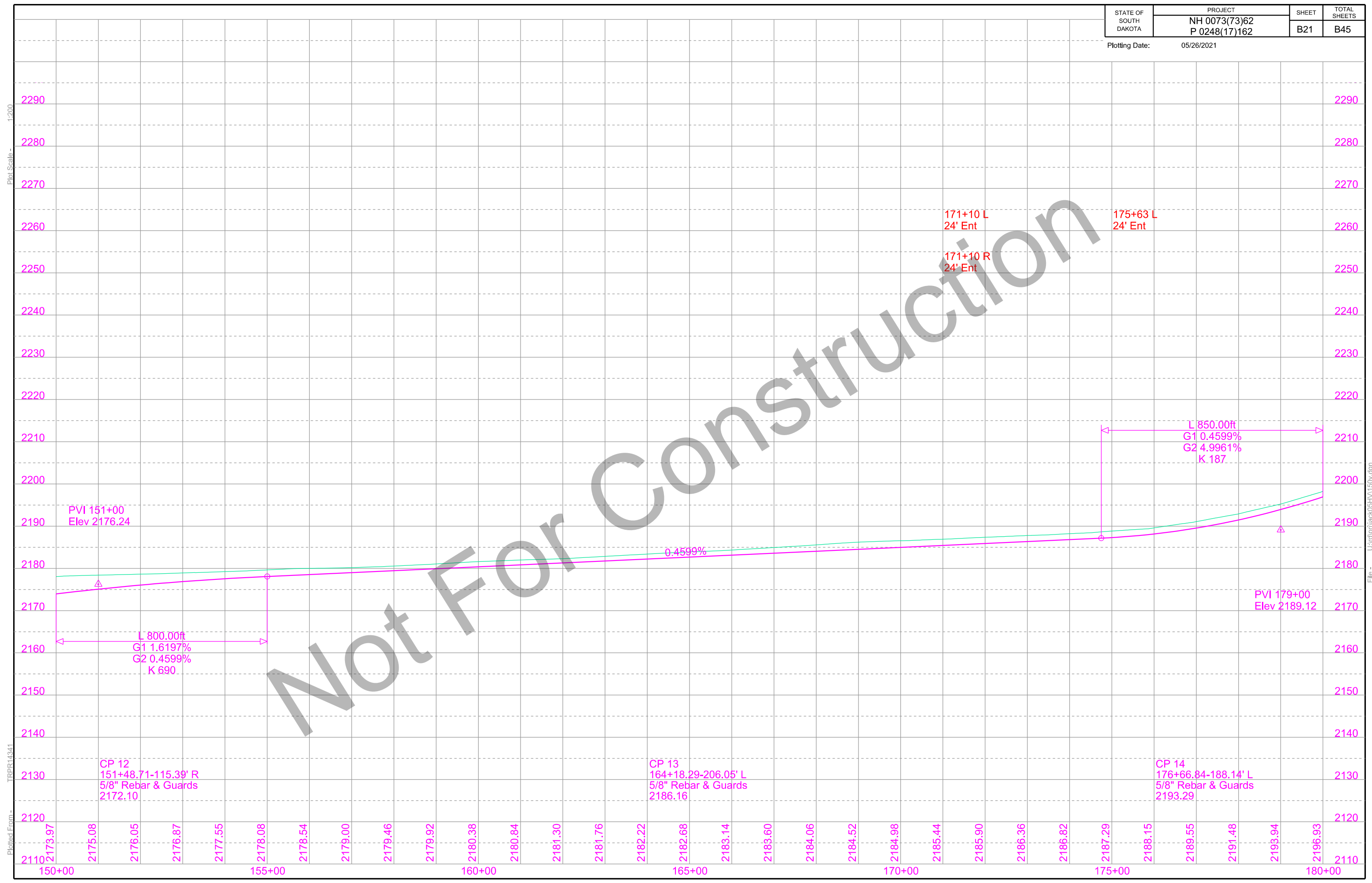
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Plotted From - TRPR17192

File - U:\trproj\jacob5\17150.dgn



Plotting Date: 05/26/2021



Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jacob5\HV1150.v.dgn

184+50  
Install Cutoff Drain with  
Concrete Headwalls Left & Right  
(See Details & Section X)

185+62  
Take Out 18"-100' RCP  
(Incidental Work, Grading)  
  
185+62 (1 ac)  
Install 24"-70' RCP  
& 2 Sloped Ends

190+21  
Take Out 18"-128' CMP  
(Incidental Work, Grading)  
  
190+21 (4 ac)  
Install 24"-66' RCP  
& 2 Sloped Ends

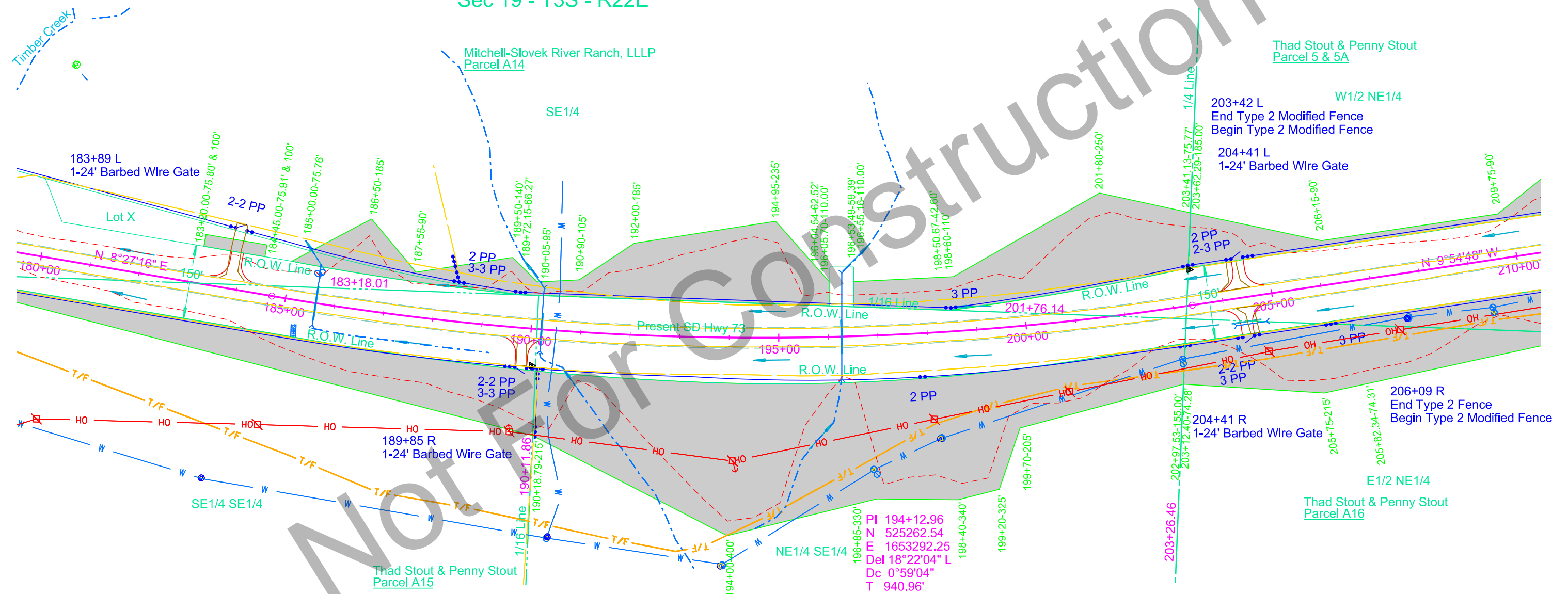
196+27  
Take Out 24"-214' CMP  
(Incidental Work, Grading)  
  
196+27 (4 ac)  
Install 24"-68' RCP  
& 2 Sloped Ends  
  
197+00  
Install Cutoff Drain with  
Concrete Headwall Left  
(See Details & Section X)

204+51-54' R  
Take Out 18"-61' CMP  
(Incidental Work, Grading)  
  
204+41-49' R  
Install 18"-60' CMP  
& 2 Safety Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B22	B45
Plotting Date: 03/03/2022		Rev 3/2/2022(BT)	



Sec 19 - T3S - R22E



Parcel A14  
183+20.00 to 184+45.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A14  
185+00.00 to 196+05.70 L  
Temporary Easement containing  
2.0 ac, more or less

Parcel A14  
196+53.49 to 203+62.29 L  
Temporary Easement containing  
1.8 ac, more or less

Parcel 5  
203+41.13 to 230+03.54 L  
Temporary Easement containing  
7.3 ac, more or less

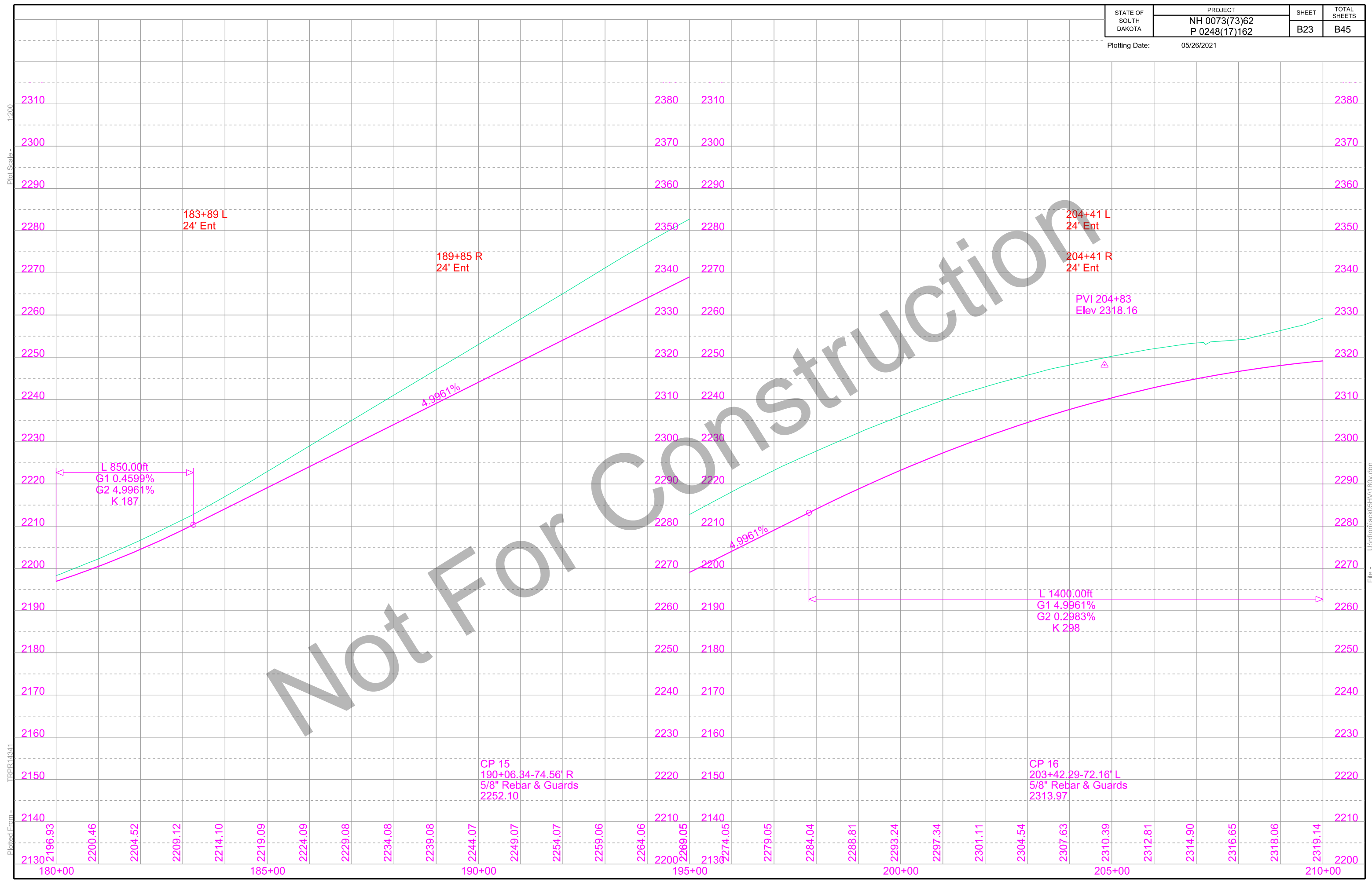
Parcel A16  
202+97.53 to 211+37.79 R  
Temporary Easement containing  
1.6 ac, more or less

PI 194+12.96  
N 525262.54  
E 1653292.25  
Del 18°22'04" L  
Dc 0°59'04"  
T 940.96'  
L 1865.77'  
R 5820.00'

Plot Scale - 1:200

Plotted From - TRPR17192

File - U:\trp\proj\jack05\14\180.dgn



Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jack05\HV1180.v.dgn

**219+92**  
Take Out 18"-212' CMP  
(Incidental Work, Grading)  
  
219+92 (1 ac)  
Install 24"-132' RCP  
(Skewed 50° LHF)  
& 2 Sloped Ends

**226+20**  
Take Out 24"-168' CMP  
(Incidental Work, Grading)  
  
226+20 (5 ac)  
Install 24"-112' RCP  
Install 24"-44' CMP (10' & 34')  
And 2-15° CMP Elbows  
& 2 Sloped Ends  
  
226+20 L  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

**227+81**  
Take Out 18"-147' CMP  
(Incidental Work, Grading)  
  
227+81 (2 ac)  
Install 24"-76' RCP  
Install 24"-76' CMP (10' & 76')  
& 2-17.5° CMP Elbows  
& 1-24" RCP to CMP Outlet Transition  
& 1 RCP Sloped End  
& 1 CMP Sloped End  
  
227+81 L  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

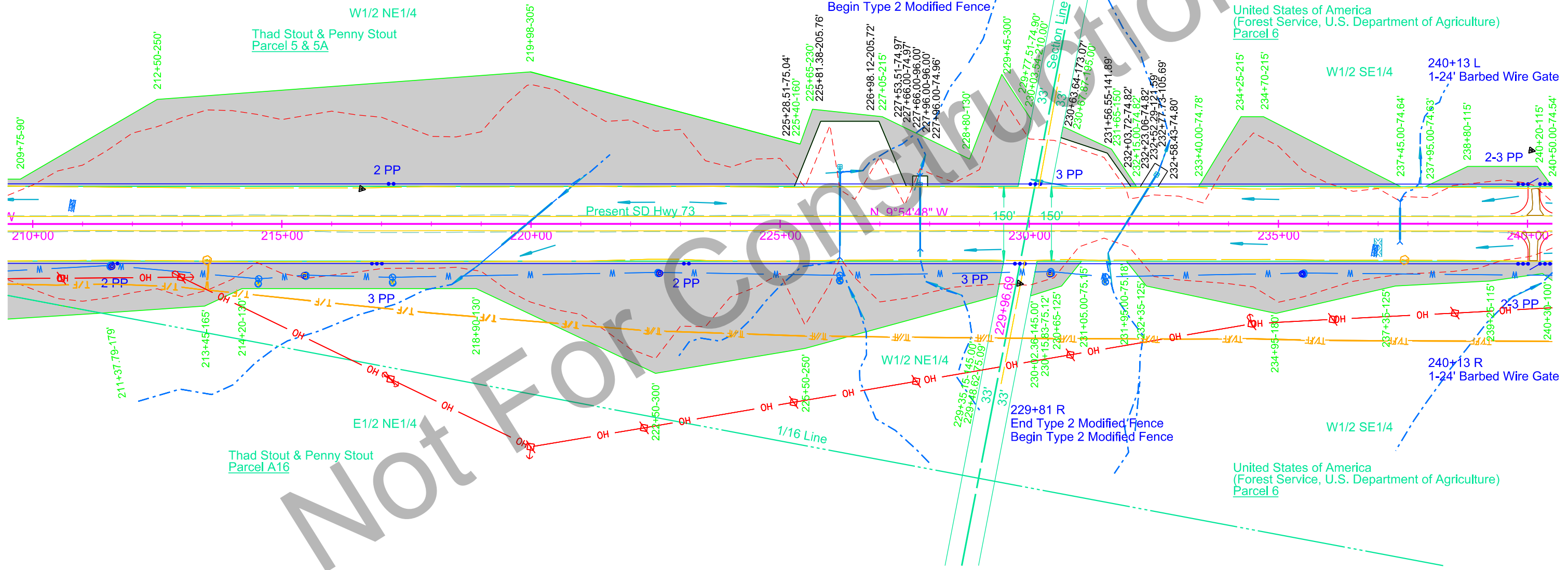
**231+94**  
Take Out 24"-190' CMP  
(Incidental Work, Grading)  
  
231+94 (6 ac)  
Install 24"-114' RCP  
Install 24"-62' CMP (10' & 52')  
(Skewed 32° LHF)  
And 2-20° CMP Elbows  
& 1-24" RCP to CMP Outlet Transition  
& 1 RCP Sloped End  
& 1 CMP Sloped End  
  
232+59 L  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

**237+44**  
Take Out 18"-80' CMP  
(Incidental Work, Grading)  
  
237+44 (2 ac)  
Install 24"-64' RCP  
& 2 Sloped Ends



**Sec 19 - T3S - R22E**

**Sec 18 - T3S - R22E**



**Parcel 6**  
230+63.64 to 232+15.00 L  
Temporary Easement containing  
0.1 ac, more or less

**Parcel 5**  
205+82.34 to 229+48.62 R  
Temporary easement containing  
5.4 ac, more or less

**Parcel 6**  
233+40.00 to 237+45.00 L  
Temporary Easement containing  
0.7 ac, more or less

**Parcel 6**  
237+95.00 to 240+50.00 L  
Temporary Easement containing  
0.2 ac, more or less

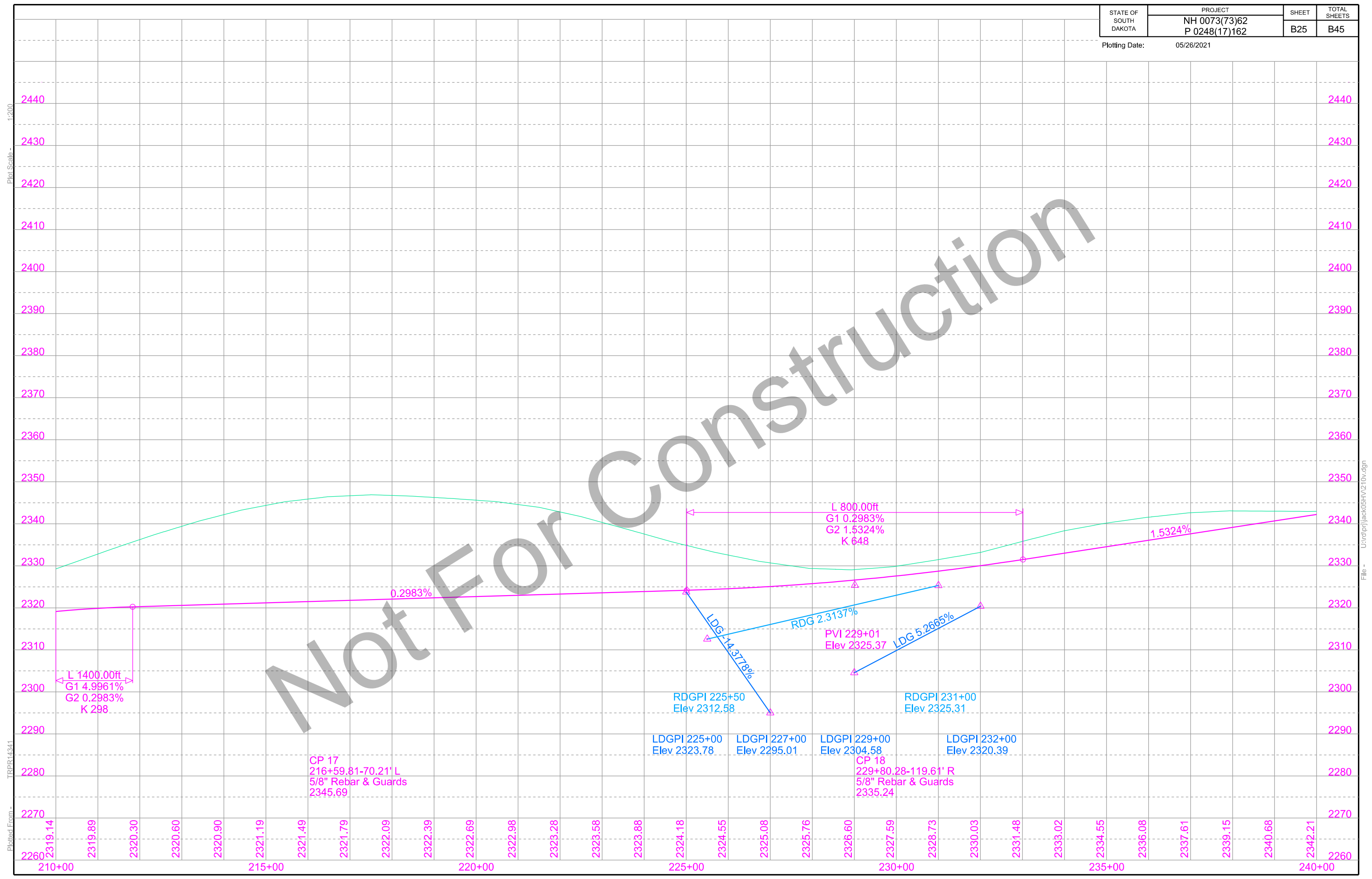
**Parcel 6**  
230+02.36 to 231+05.00 R  
Temporary Easement containing  
0.1 ac, more or less

**Parcel 6**  
231+95.00 to 256+35.00 R  
Temporary Easement containing  
2.7 ac, more or less

Plot Scale - 1:200

Plotted From - TRPR17192

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Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jack0514\210.v.dgn

Not For Construction



Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\trproj\jacob0514\240.dgn

241+65  
Take Out 24"-194' CMP  
(Incidental Work, Grading)

241+64 (5 ac)  
Install 24"-230' RCP  
(Skewed 36° LHF)  
& 2 Sloped Ends

242+49 L  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

249+63  
Take Out 24"-199' CMP  
(Incidental Work, Grading)

249+63 (3 ac)  
Install 24"-144' RCP  
Install 24"-60' CMP (10' & 50')  
(Skewed 37° LHF)  
And 2-15° CMP Elbows

& 1-24" RCP to CMP Outlet Transition  
& 1 RCP Sloped End  
& 1 CMP Sloped End

248+82 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

259+70  
Take Out 24"-198' CMP  
(Incidental Work, Grading)

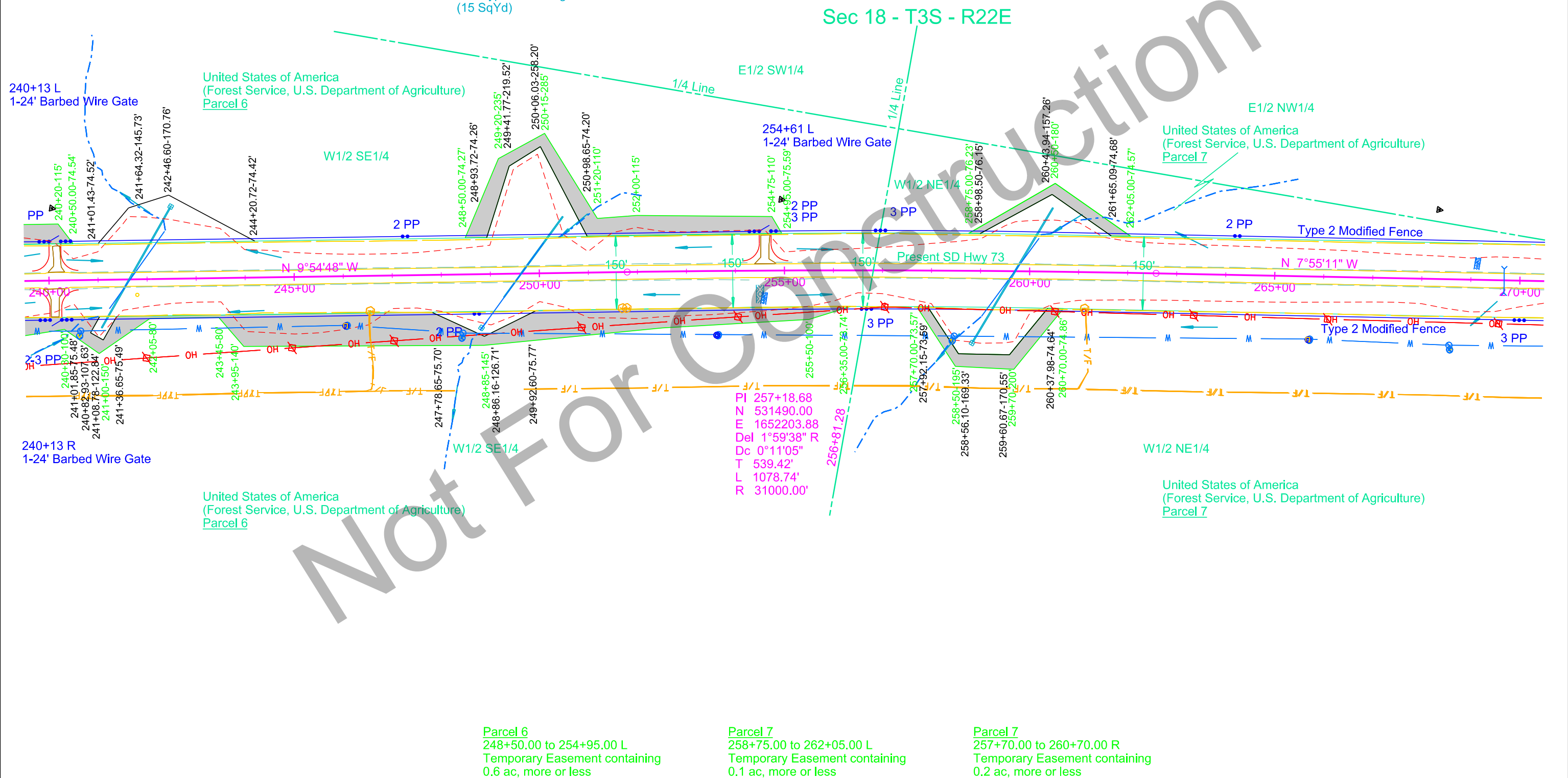
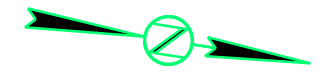
259+70 (7 ac)  
Install 24"-262' RCP  
(Skewed 36° LHF)  
& 2 Sloped Ends

258+85 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

269+68  
Take Out 4'x6'-49' Cattle Pass  
(Incidental Work, Grading)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162		

Plotting Date: 05/28/2021

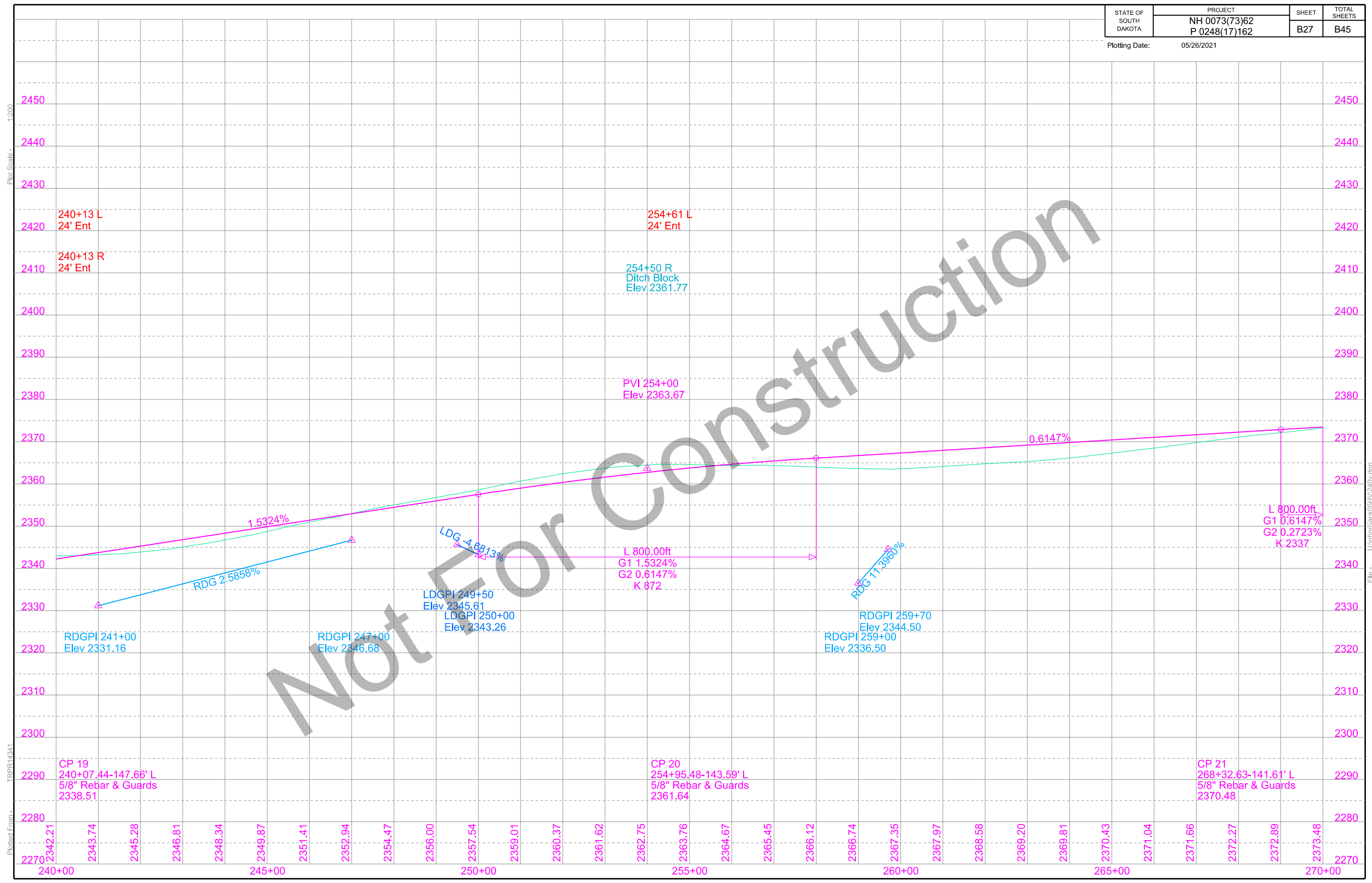


PI 257+18.68  
N 531490.00  
E 1652203.88  
Del 1°59'38" R  
Dc 0°11'05"  
T 539.42'  
L 1078.74'  
R 31000.00'

Parcel 6  
248+50.00 to 254+95.00 L  
Temporary Easement containing  
0.6 ac, more or less

Parcel 7  
258+75.00 to 262+05.00 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel 7  
257+70.00 to 260+70.00 R  
Temporary Easement containing  
0.2 ac, more or less



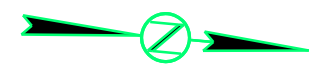
Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jacob\514V2\40.v.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B28	B45

Plotting Date: 06/02/2021



**287+86**  
Take Out 18"-149' RCP  
(Incidental Work, Grading)

287+86 (2 ac)  
Install 24"-180' RCP  
Install 24"-90' CMP (10' & 74')  
And 2-17.5° CMP Elbows  
& 1-24" RCP to CMP Outlet Transition  
& 1 RCP Sloped End  
& 1 CMP Sloped End

287+86 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

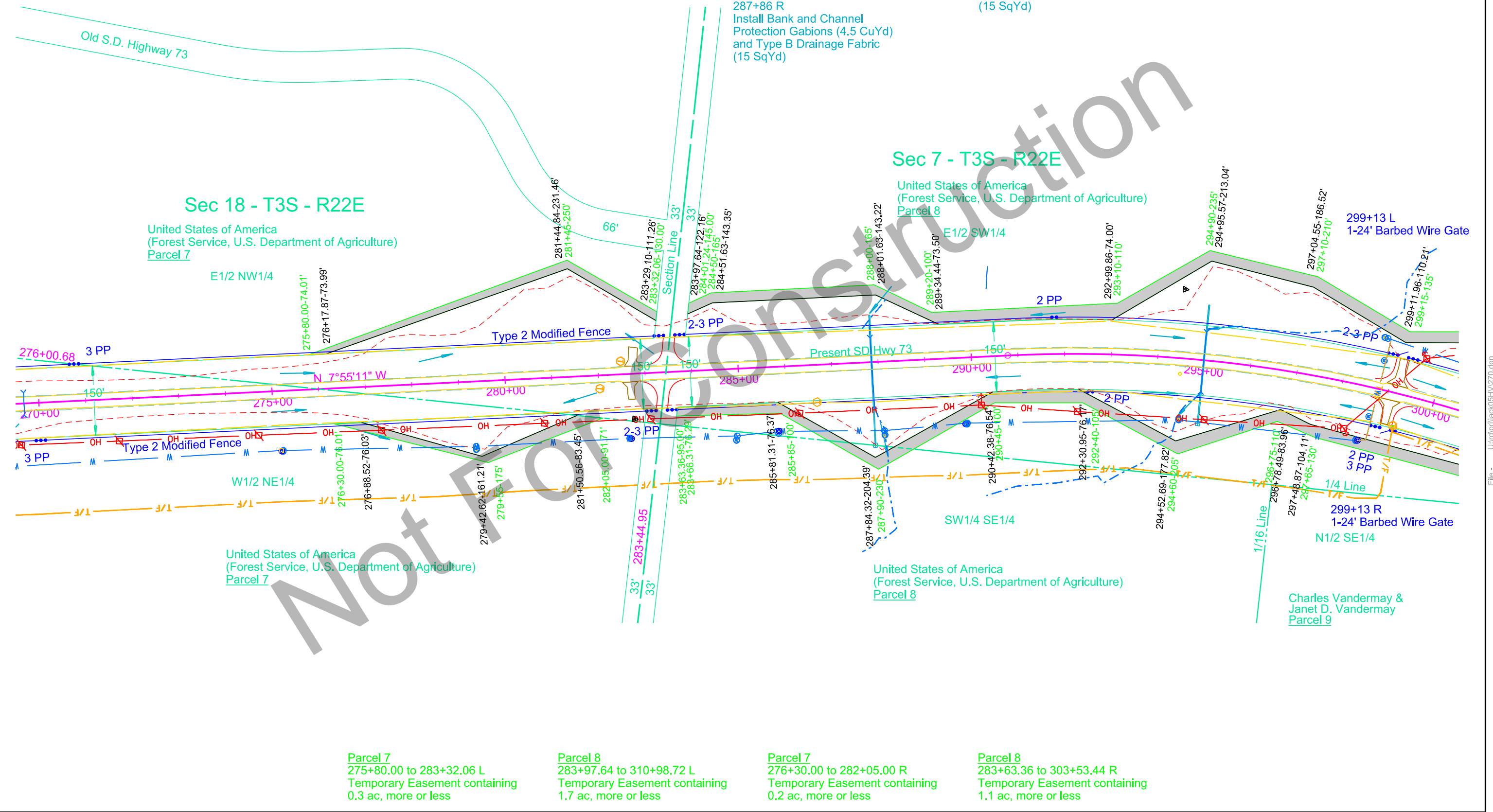
**294+99**  
Take Out 24"-128' CMP  
(Incidental Work, Grading)

294+99 (10 ac)  
Install 24"-240' RCP  
& 2 Sloped Ends

294+99 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

Plot Scale - 1:200

Plotted From - TRPR14341



**Parcel 7**  
275+80.00 to 283+32.06 L  
Temporary Easement containing  
0.3 ac, more or less

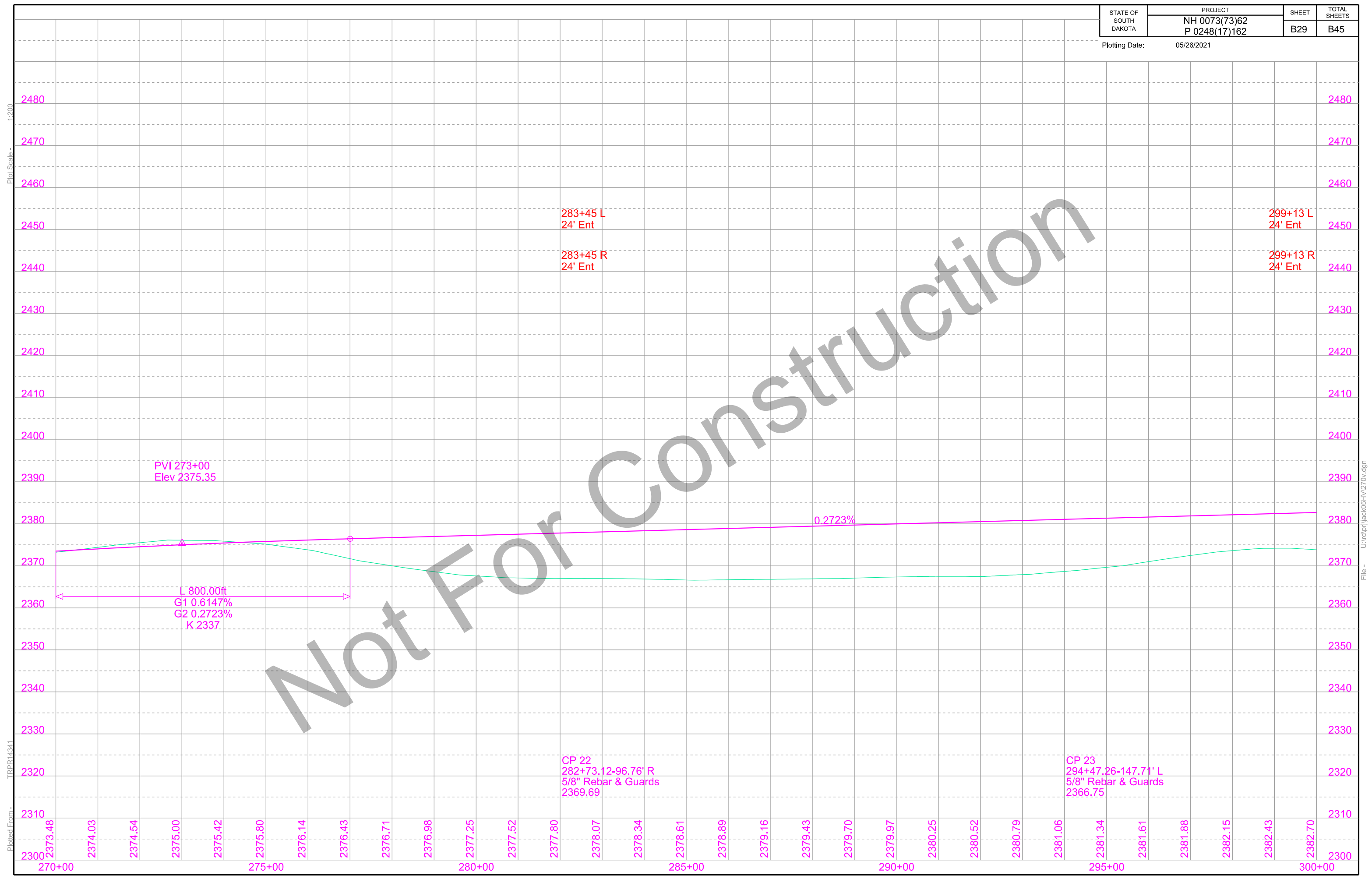
**Parcel 8**  
283+97.64 to 310+98.72 L  
Temporary Easement containing  
1.7 ac, more or less

**Parcel 7**  
276+30.00 to 282+05.00 R  
Temporary Easement containing  
0.2 ac, more or less

**Parcel 8**  
283+63.36 to 303+53.44 R  
Temporary Easement containing  
1.1 ac, more or less

File - U:\tr\proj\jacob\514\270.dgn





Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jack\05HV270v.dgn

Plot Scale - 1:200

Plotted From - TRPR14341

304+99  
Take Out 24"-120' CMP  
(Incidental Work, Grading)

304+99 (6 ac)  
Install 24"-294' RCP  
& 2 Sloped Ends

304+99 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

307+17  
Take Out 54"-167' CMP  
(Incidental Work, Grading)

307+17 (269 ac)  
Install 60"-328' RCP  
& 2 Flared Ends

307+17 R  
Install Bank and Channel  
Protection Gabions (15.5 CuYd)  
and Type B Drainage Fabric  
(43 SqYd)

316+66  
Take Out 24"-180' CMP  
(Incidental Work, Grading)

316+66 (6 ac)  
Install 24"-314' RCP  
(Skewed 30° LHF)  
& 2 Sloped Ends

315+76 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

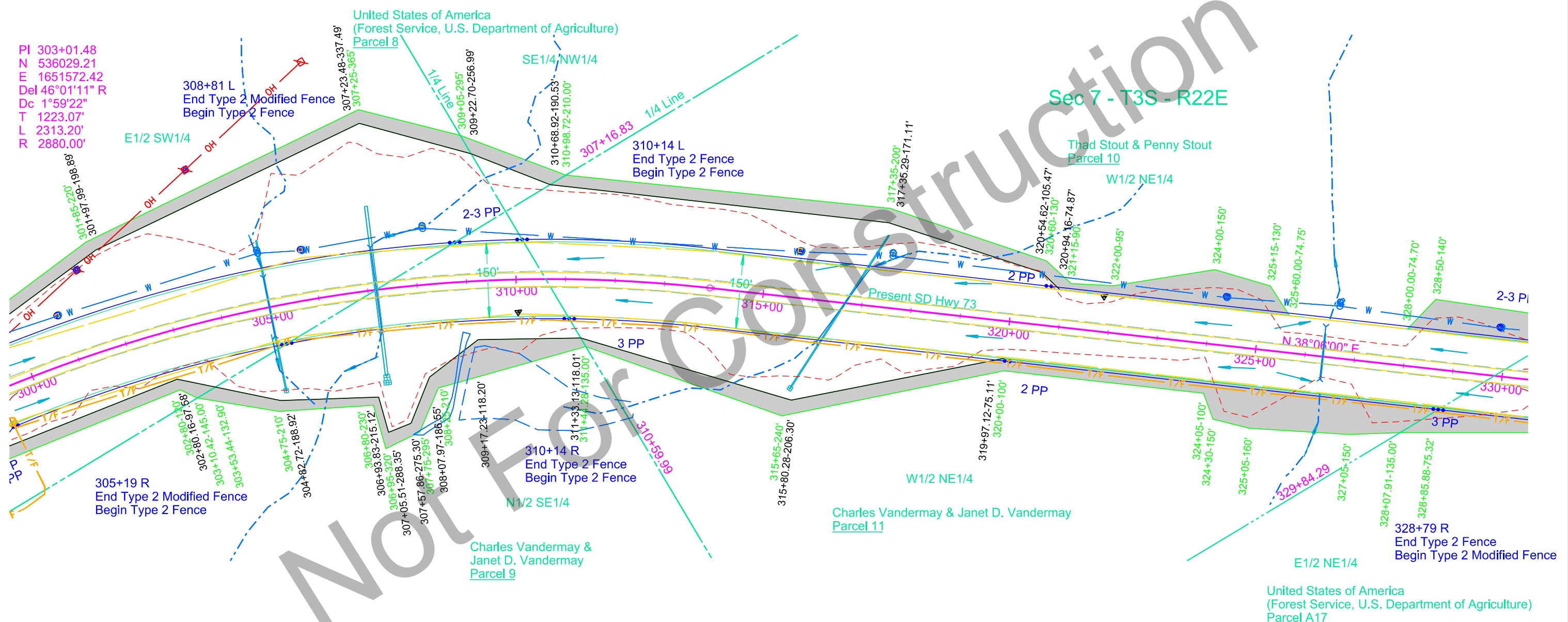
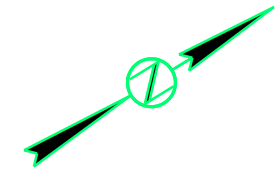
322+50  
Install Cutoff Drain with  
Concrete Headwalls Left & Right  
(See Details & Section X)

326+36  
Take Out 24"-105' CMP  
(Incidental Work, Grading)

326+36 (2 ac)  
Install 24"-94' RCP  
& 2 Sloped Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162		

Plotting Date: 05/28/2021



PI 303+01.48  
N 536029.21  
E 1651572.42  
Del 46°01'11" R  
Dc 1°59'22"  
T 1223.07'  
L 2313.20'  
R 2880.00'

308+81 L  
End Type 2 Modified Fence  
Begin Type 2 Fence

310+14 L  
End Type 2 Fence  
Begin Type 2 Fence

Sec 7 - T3S - R22E

Thad Stout & Penny Stout  
Parcel 10

310+14 R  
End Type 2 Fence  
Begin Type 2 Fence

Charles Vandermay & Janet D. Vandermay  
Parcel 11

Charles Vandermay & Janet D. Vandermay  
Parcel 9

328+79 R  
End Type 2 Fence  
Begin Type 2 Modified Fence

United States of America  
(Forest Service, U.S. Department of Agriculture)  
Parcel A17

Parcel 10  
310+68.92 to 325+60.00 L  
Temporary Easement containing  
1.1 ac, more or less

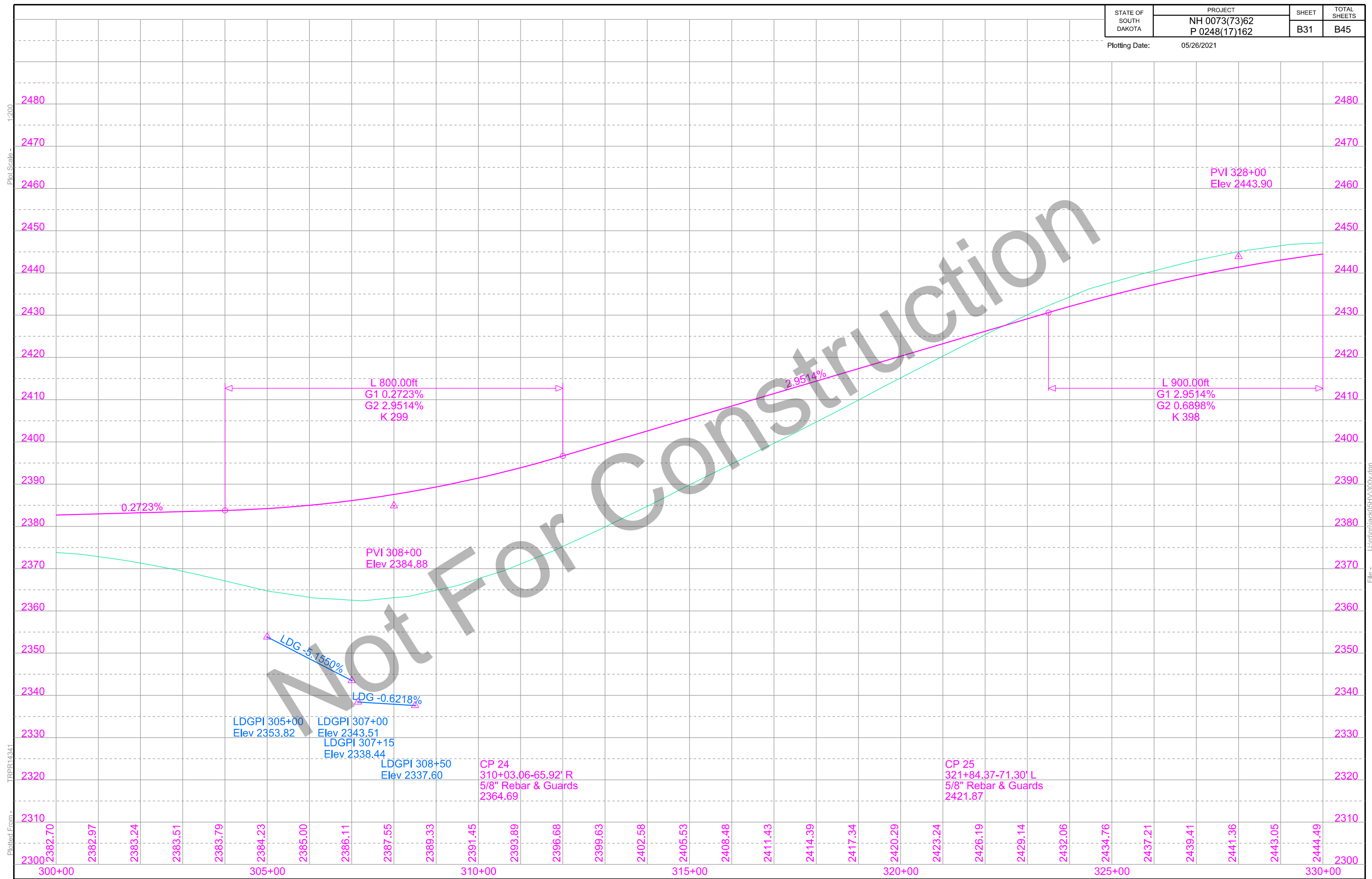
Parcel 10  
328+00.00 to 331+54.14 L  
Temporary Easement containing  
0.4 ac, more or less

Parcel 9  
303+10.42 to 311+44.28 R  
Temporary Easement containing  
0.6 ac, more or less

Parcel 11  
311+33.13 to 328+85.88 R  
Temporary Easement containing  
1.5 ac, more or less

Parcel A17  
328+07.91 to 343+48.69 R  
Temporary Easement containing  
0.7 ac, more or less

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Plot Scale - 1:200

TRPR14341

Plotted From -

File - U:\proj\jack0514\300.v.dgn

331+92  
Take Out 18"-106' RCP  
(Incidental Work, Grading)

331+92 (9 ac)  
Install 24"-110' RCP  
& 2 Sloped Ends

331+92 R  
Install Bank and Channel  
Protection Gabions (4.5 CuYd)  
and Type B Drainage Fabric  
(15 SqYd)

340+91  
Take Out 18"-63' RCP  
(Incidental Work, Grading)

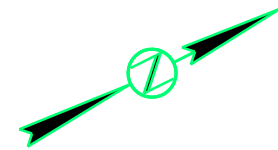
340+91 (14 ac)  
Install 30"-84' RCP  
& 2 Sloped Ends

354+88-47' R  
Take Out 18"-63' RCP  
(Incidental Work, Grading)

354+88-49' R  
Install 18"-56' CMP  
& 2 Safety Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162		

Plotting Date: 03/16/2022 Rev 3/16/2022 BT

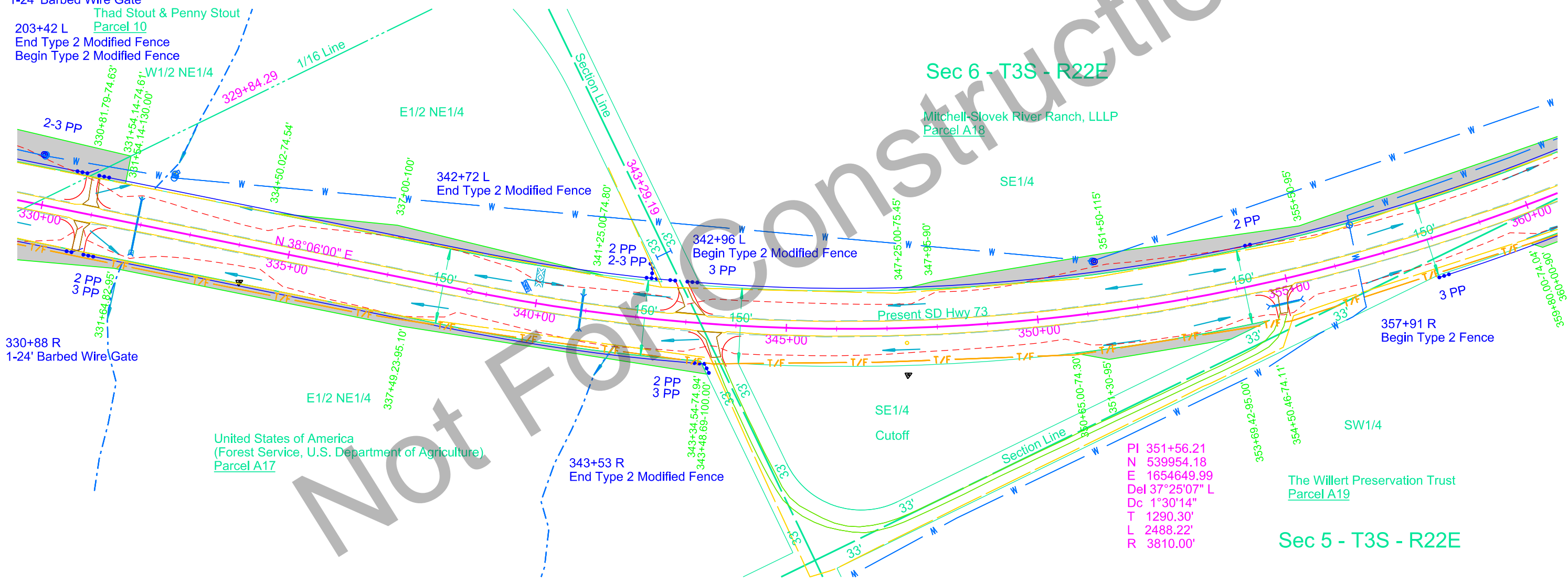


### Sec 7 - T3S - R22E

330+88 L  
1-24' Barbed Wire Gate  
Thad Stout & Penny Stout  
Parcel 10  
203+42 L  
End Type 2 Modified Fence  
Begin Type 2 Modified Fence

### Sec 6 - T3S - R22E

Mitchell-Slovak River Ranch, LLLP  
Parcel A18



330+88 R  
1-24' Barbed Wire Gate

United States of America  
(Forest Service, U.S. Department of Agriculture)  
Parcel A17

PI 351+56.21  
N 539954.18  
E 1654649.99  
Del 37°25'07" L  
Dc 1°30'14"  
T 1290.30'  
L 2488.22'  
R 3810.00'

The Willert Preservation Trust  
Parcel A19

### Sec 5 - T3S - R22E

Parcel A17  
330+81.79 to 331+54.14 L  
Temporary Easement containing  
0.1 ac, more or less

Parcel A17  
334+50.02 to 341+25.00 L  
Temporary Easement containing  
0.2 ac, more or less

Parcel A18  
347+25.00 to 370+62.51 L  
Temporary Easement containing  
1.9 ac, more or less

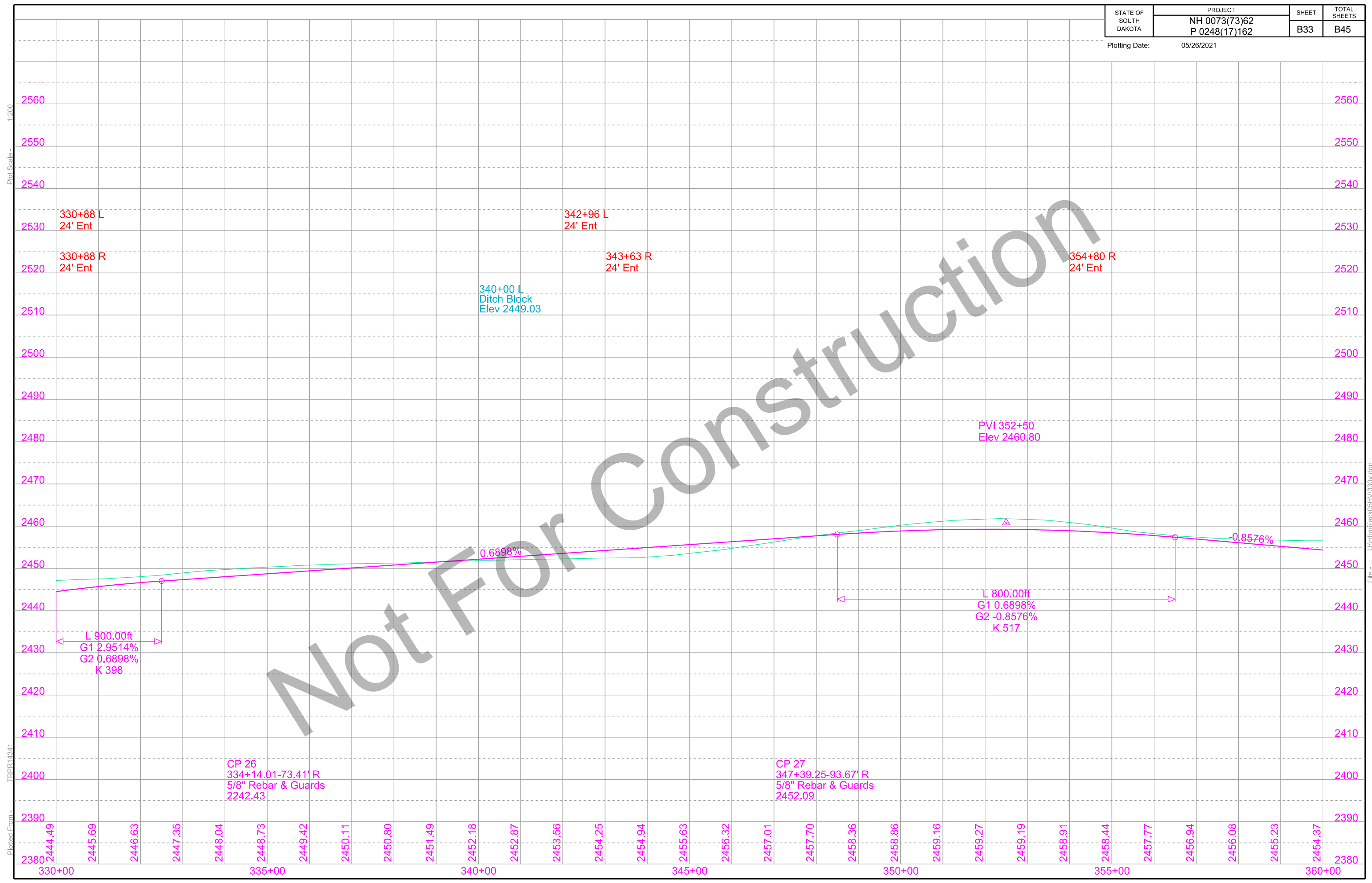
Parcel A18  
350+65.00 to 354+50.46 R  
Temporary Easement containing  
0.1 ac, more or less

Plot Scale - 1:200

Plotted From - TRPR17192

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File - U:\trproj\jacob5\14\330.dgn



Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jack0514\330.v.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B34	B45

Plotting Date: 04/04/2022 Rev 4/4/2022 BT

368+03-48' R  
Take Out 18"-67' RCP  
(Incidental Work, Grading)

368+04-49' R  
Install 18"-62' CMP  
& 2 Safety Ends

368+08-40' L  
Take Out 18"-60' RCP  
(Incidental Work, Grading)

368+08-49' L  
Install 18"-62' CMP  
& 2 Safety Ends

372+37  
Take Out 24"-89' RCP  
(Incidental Work, Grading)

372+37 (63 ac)  
Install 36"-94' RCP  
& 2 Flared Ends

372+37 L  
Install Bank and Channel  
Protection Gabions (6.0 CuYd)  
and Type B Drainage Fabric  
(19 SqYd)

379+02  
Take Out 24"-123' RCP  
(Incidental Work, Grading)

379+02 (48 ac)  
Install 42"-118' RCP  
& 2 Flared Ends

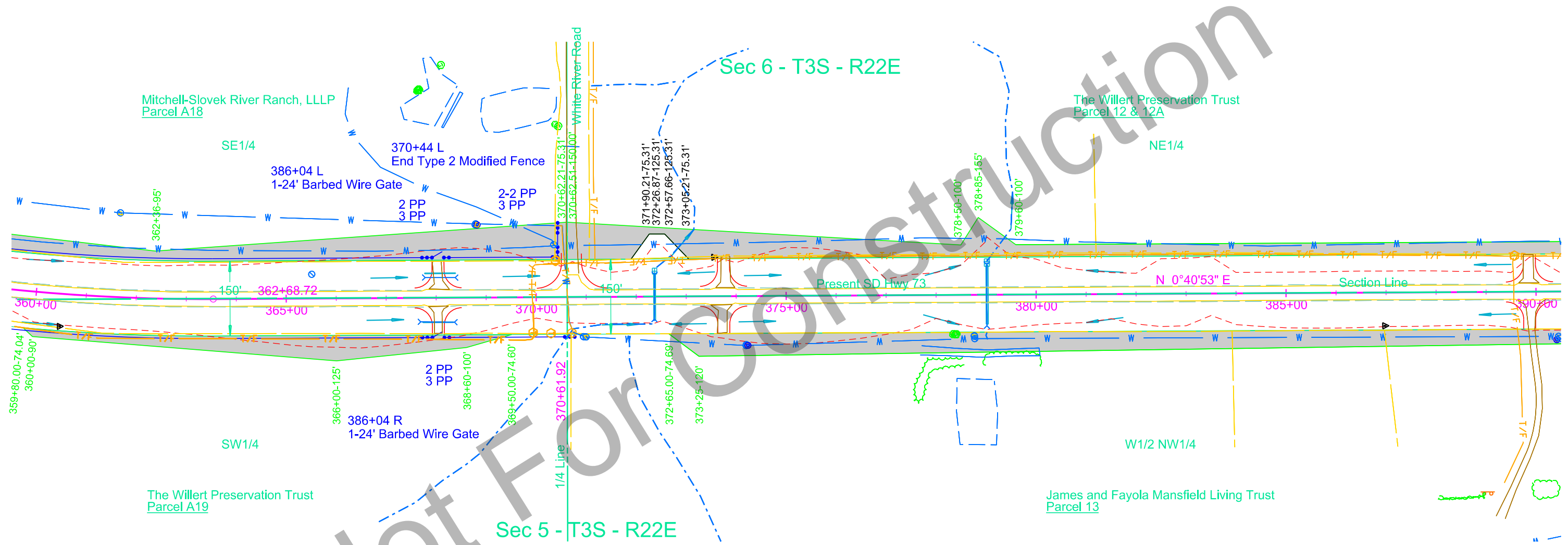
379+02 L  
Install Bank and Channel  
Protection Gabions (10.0 CuYd)  
and Type B Drainage Fabric  
(29 SqYd)



Plot Scale - 1:200

Plotted From - TRPR17192

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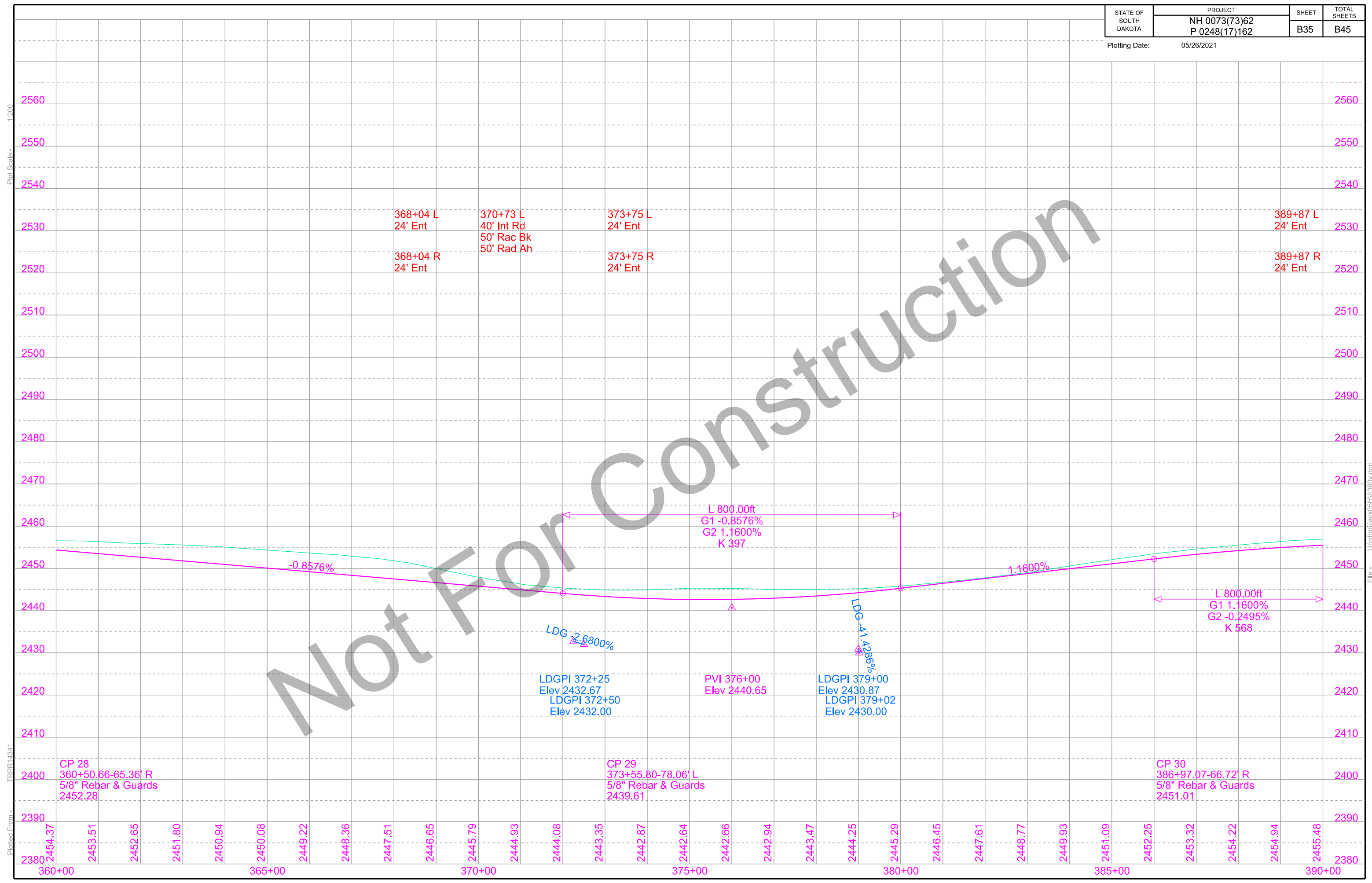


Parcel 12  
370+62.21 to 396+69.05 L  
Temporary Easement containing  
1.9 ac, more or less

Parcel A19  
359+80.00 to 369+50.00 R  
Temporary Easement containing  
0.7 ac, more or less

Parcel 13  
372+65.00 to 396+68.44 R  
Temporary Easement containing  
2.0 ac, more or less





Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

File - U:\proj\jack0514\3300.v.dgn

Plot Scale - 1:200

Plotted From - TRPR17192

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B36	B45

Plotting Date: 06/29/2022 Rev 06/29/2022 BT

395+76  
Take Out 30"-131' RCP  
(Incidental Work, Grading)

395+76 (71 ac)  
Install 48"-134' RCP  
& 2 Flared ends

395+76 L  
Install Bank and Channel  
Protection Gabions (12.0 CuYd)  
and Type B Drainage Fabric  
(34 SqYd)

400+37  
Take Out 18"-160' RCP  
(Incidental Work, Grading)

400+37 (13 ac)  
Install 24"-202' RCP  
& 2 Sloped Ends

403+11-50' L  
Take Out 18"-73' RCP  
(Incidental Work, Grading)

403+11-49' L  
Install 18"-86' CMP  
& 2 Safety Ends

407+79-51' R  
Take Out 18"-65' RCP  
(Incidental Work, Grading)

410+02 L  
Remove Cattle Guard for Reset

407+80-49' R  
Install 18"-76' CMP  
& 2 Safety Ends

411+00 L  
Reset Cattle Guard

413+18  
Take Out 36"-182' RCP  
(Incidental Work, Grading)

413+18 (135 ac)  
Install 48"-154' RCP  
& 2 Flared Ends

413+18 L  
Install Bank and Channel  
Protection Gabions (12.0 CuYd)  
and Type B Drainage Fabric  
(34 SqYd)

419+86 L  
Remove Cattle Guard for Reset

419+86 L  
Reset Cattle Guard



### Sec 6 - T3S - R22E

### Sec 31 - T2S - R22E

### Sec 32 - T2S - R22E

The Willert Preservation Trust  
Parcel 12 & 12A

The Willert Preservation Trust  
Parcel 14

Ringneck & Western Railroad, L.L.C.  
Parcel 15

Shawn D. Porch  
Parcel 16

411+08 L  
End Type 2 Fence  
Begin Type 2 Fence

Clinton W. Schnee  
Parcel 17

Deborah Olney  
Parcel A20

407+89 L  
End Type 2 Fence  
Begin Type 2 Fence

416+81 L  
End Type 2 Fence  
Begin Type 2 Fence

419+86 L  
1-24' Barbed Wire Gate

Present SD Hwy 73

Section Line

James and Fayola Mansfield Living Trust  
Parcel 13

Paul Otis & Darrell D. Otis  
Parcel 18 & 18A

Ringneck & Western Railroad, L.L.C.  
Parcel 19

Paul Otis & Darrell D. Otis  
Parcel 18 & 18A

### Sec 5 - T3S - R22E

Parcel 14  
397+34.95 to 407+88.80 L  
Temporary Easement containing  
1.9 ac, more or less

Parcel 15  
407+62.30 to 410+15.52 L  
Temporary Easement containing  
0.3 ac, more or less

Parcel 16  
409+90.00 to 412+08.48 L  
Temporary Easement containing  
0.4 ac, more or less

Parcel 17  
412+08.48 to 416+81.03 L  
Temporary Easement containing  
0.4 ac, more or less

Parcel A20  
416+80.82 to 423+40.53 L  
Temporary Easement containing  
0.5 ac, more or less

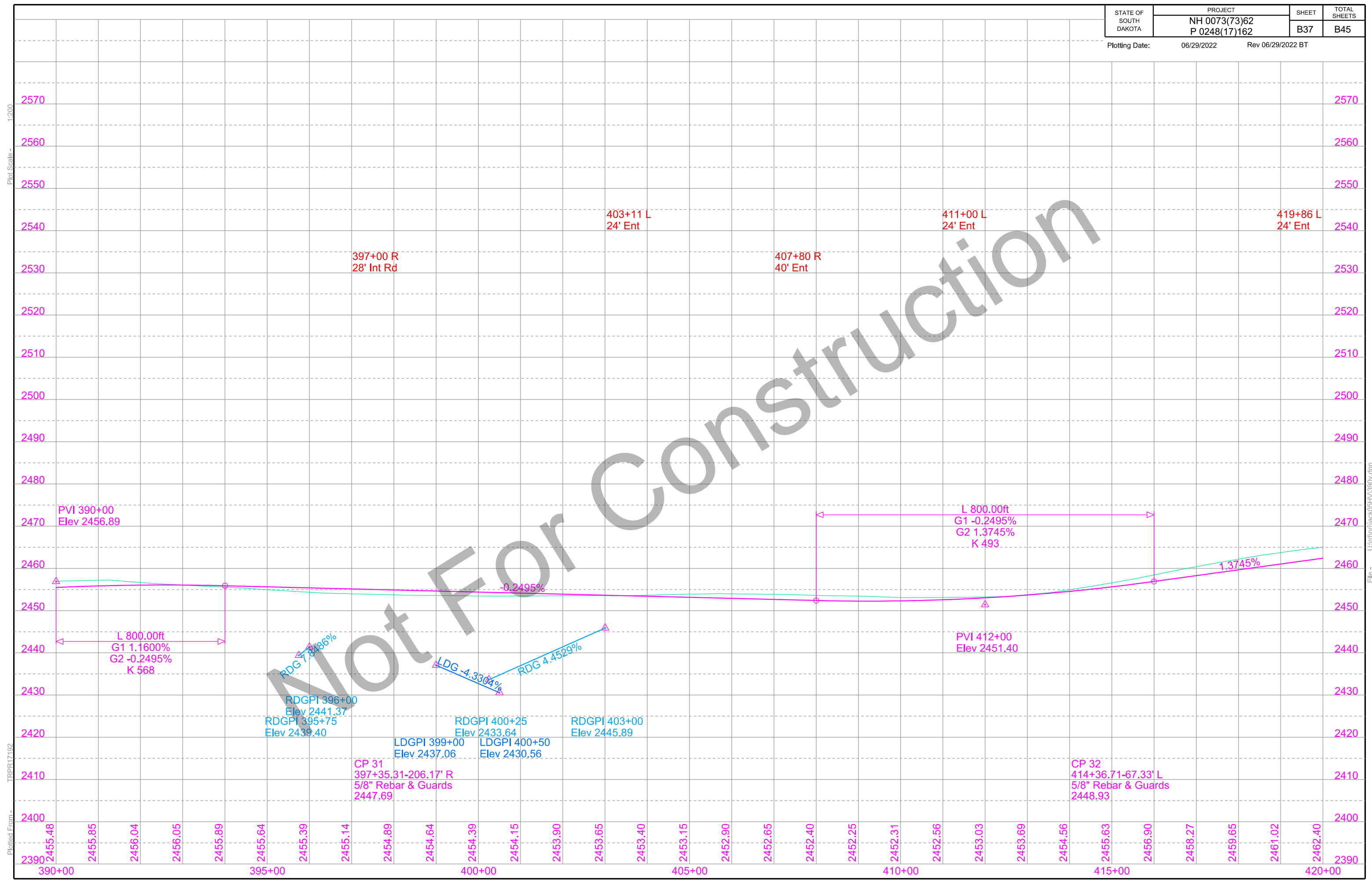
Parcel 18  
397+34.38 to 409+44.46 R  
Temporary Easement containing  
1.5 ac, more or less

Parcel 19  
409+25.57 to 410+52.48 R  
Temporary Easement containing  
0.1 ac, more or less

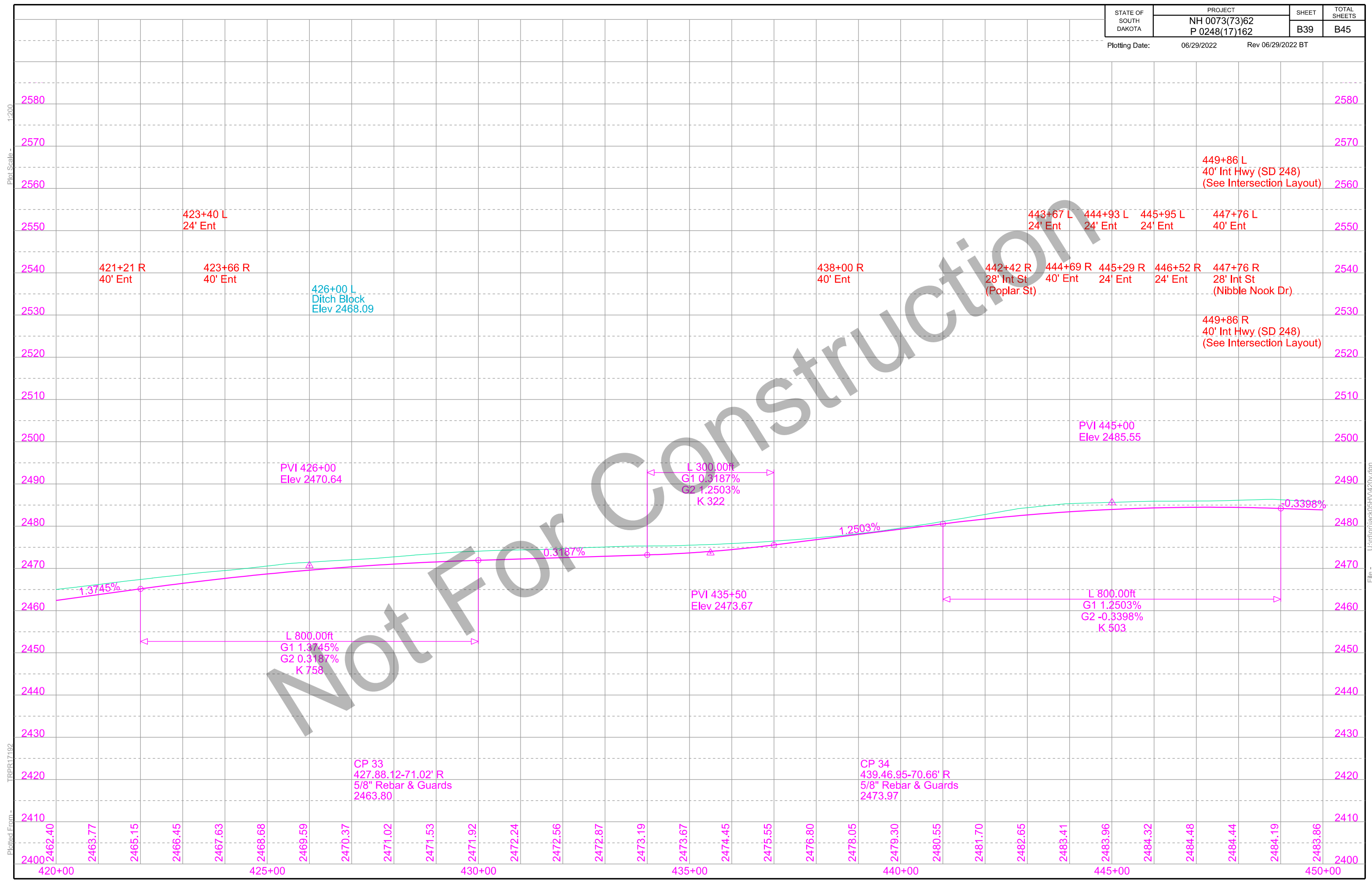
Parcel 18  
410+38.93 to 423+39.81 R  
Temporary Easement containing  
1.1 ac, more or less

File - U:\trp\jjaack05\14\330.dgn









Not For Construction

Plot Scale - 1:200

Plotted From - TRPR17192

File - U:\proj\jacob\514\420.vdgn

451+31-62' L  
Take Out 18"-73' RCP  
(Incidental Work, Grading)

451+33-49' L  
Install 18"-70' RCP  
& 2 Safety Ends

453+33-57' R  
Take Out 18"-81' RCP  
(Incidental Work, Grading)

453+35-63' L  
Take Out 18"-73' RCP  
(Incidental Work, Grading)

453+32-49' R  
Install 18"-56' CMP  
& 2 Safety Ends

453+32-49' L  
Install 18"-72' RCP  
& 2 Safety Ends

455+27-57' R  
Take Out 18"-74' RCP  
(Incidental Work, Grading)

455+42-68' L  
Take Out 18"-74' RCP  
(Incidental Work, Grading)

455+27-49' R  
Install 18"-58' RCP  
& 2 Safety Ends

455+43-49' L  
Install 18"-72' RCP  
& 2 Safety Ends

457+04-69' R  
Take Out 18"-85' RCP  
(Incidental Work, Grading)

457+35-63' L  
Take Out 18"-73' RCP  
(Incidental Work, Grading)

457+00-49' R  
Install 18"-58' RCP  
& 2 Safety Ends

457+34-49' L  
Install 18"-72' RCP  
& 2 Safety Ends

457+78.65  
Take Out 24"-69' RCP  
(Incidental Work, Grading)

458+43-51' L  
Take Out 18"-65' CMP  
(Incidental Work, Grading)

457+79 (9 ac)  
Install 24"-72' RCP  
(Skewed 11° LHF)  
& 2 Sloped Ends

458+42-49' L  
Install 18"-72' RCP  
& 2 Safety Ends

458+70-49' R  
Install 18"-76' RCP  
& 2 Safety Ends

459+89-51' L  
Take Out 18"-65' CMP  
(Incidental Work, Grading)

459+68-50' R  
Remove Drop Inlet

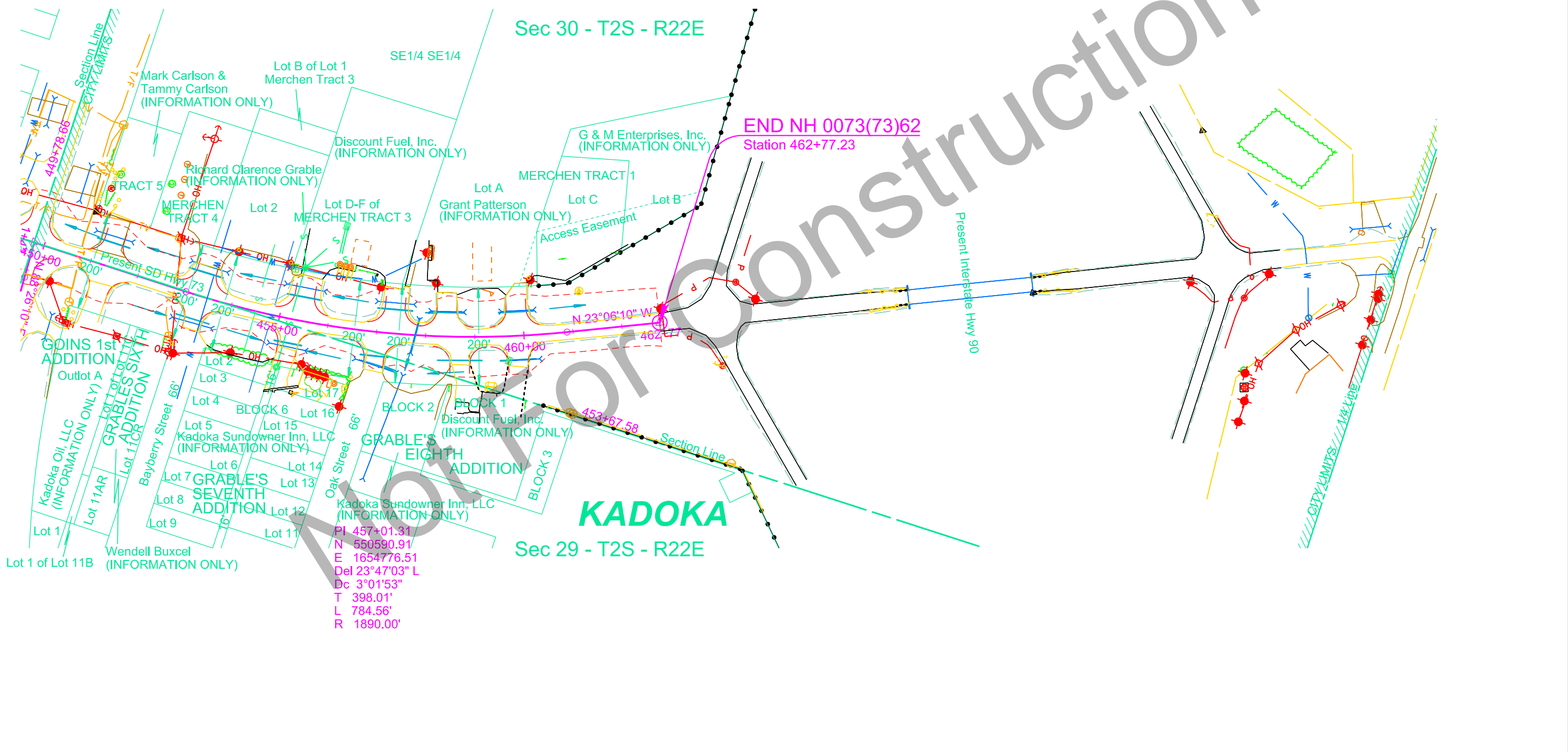
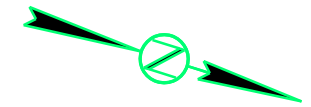
459+86-49' R  
Take Out 18"-74' RCP  
(Incidental Work, Grading)

459+86-50' R  
Take Out 18"-62' CMP  
(Incidental Work, Grading)

459+86-49' R  
Install 18"-74' RCP  
& 2 Safety Ends

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B40	B45

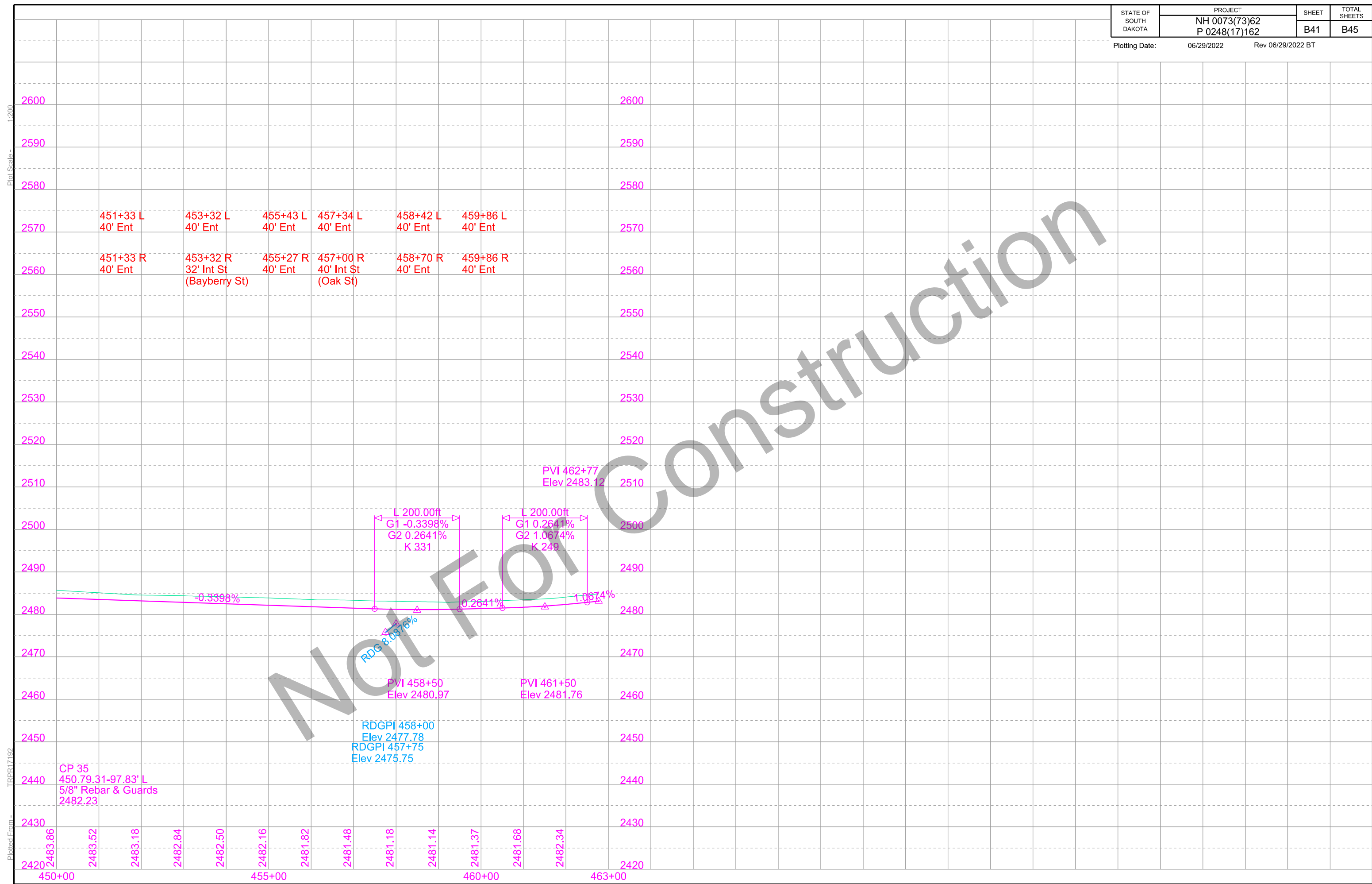
Plotting Date: 06/29/2022 Rev 06/29/2022 BT



Plot Scale - 1:200

Plotted From - TRPR17192

File - U:\trp\jacob\0514\450.dgn



Plot Scale - 1:200

Plotted From - TRPR17192

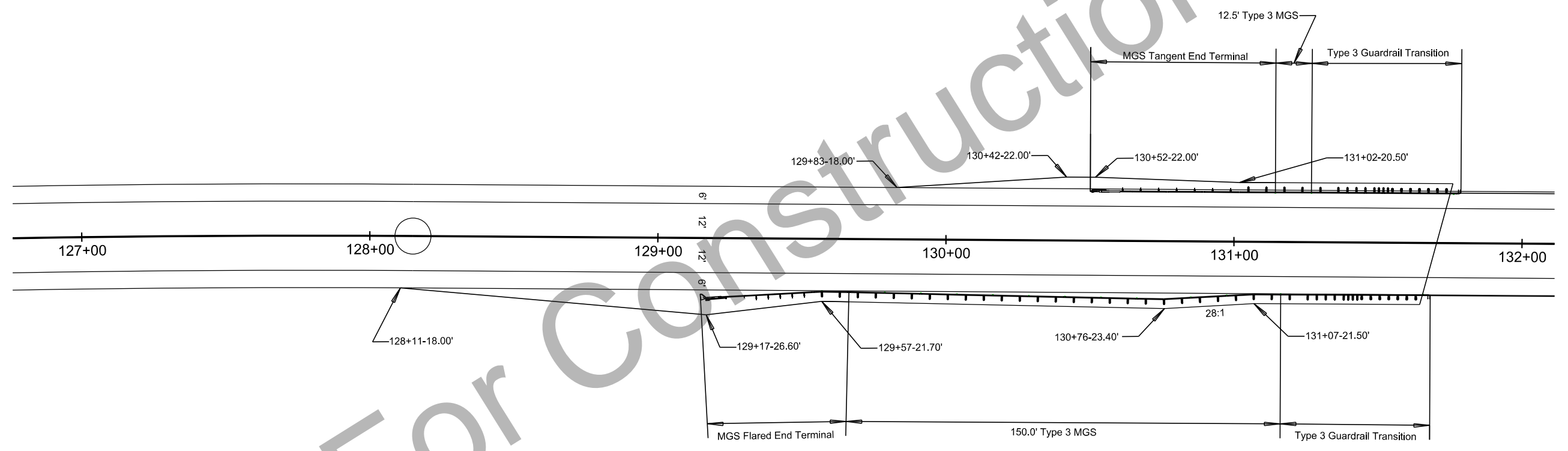
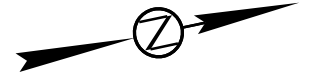
Plotted From -

File - U:\proj\jacob\0514\450v.dgn



# GUARDRAIL LAYOUT

STATE OF SOUTH DAKOTA	PROJECT NH 0073(73)62 P 0248(17)162	SHEET B42	TOTAL SHEETS B45
Plotting Date: 05/26/2021			



Not For Construction

Plot Scale - 1:40

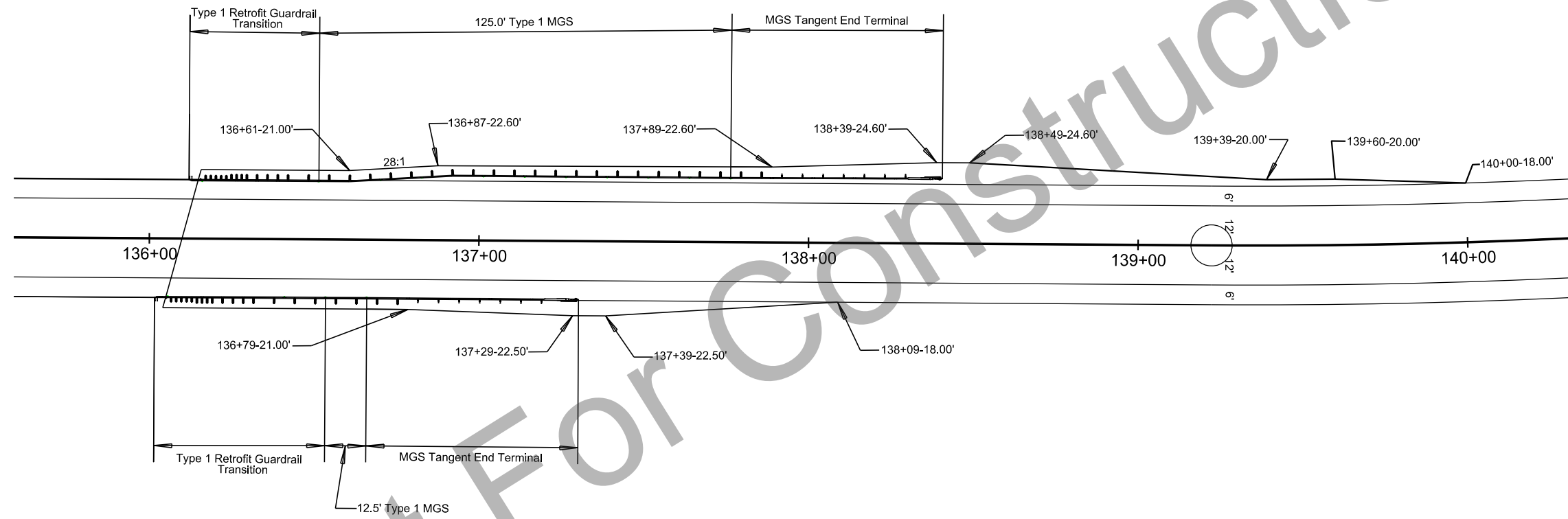
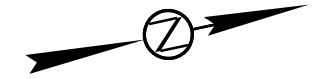
Plotted From - TRPR14341

File - U:\trpr\jacket05HV127.grdgn



# GUARDRAIL LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B43	B45
Plotting Date: 05/26/2021			



Plot Scale - 1:40

Plotted From - TRPR14341

File - U:\trproj\jack05HV135gr.dgn

# SD73/SD248 INTERSECTION LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B44	B45

Plotting Date: 07/14/2021



- 1 448+75.90-18.00' L  
Begin 95' Rad Point
- 2 449+59.03-103.68' L  
End 95' Rad Point

449+66.21-182.43' L

Present SD Hwy 248

449+94.03-182.76' L

- 3 449+93.73-127.62' L  
Begin 160' Rad Point
- 4 450+27.76-28.09' L  
End 160' Rad Point  
Begin 35' Rad Point
- 5 450+44.19-18' L  
End 35' Rad Point

Present SD Hwy 73

450+00

- 6 448+69.48-18.00' R  
Begin 90' Rad Point
- 7 449+59.35-103.33' R  
End 90' Rad Point

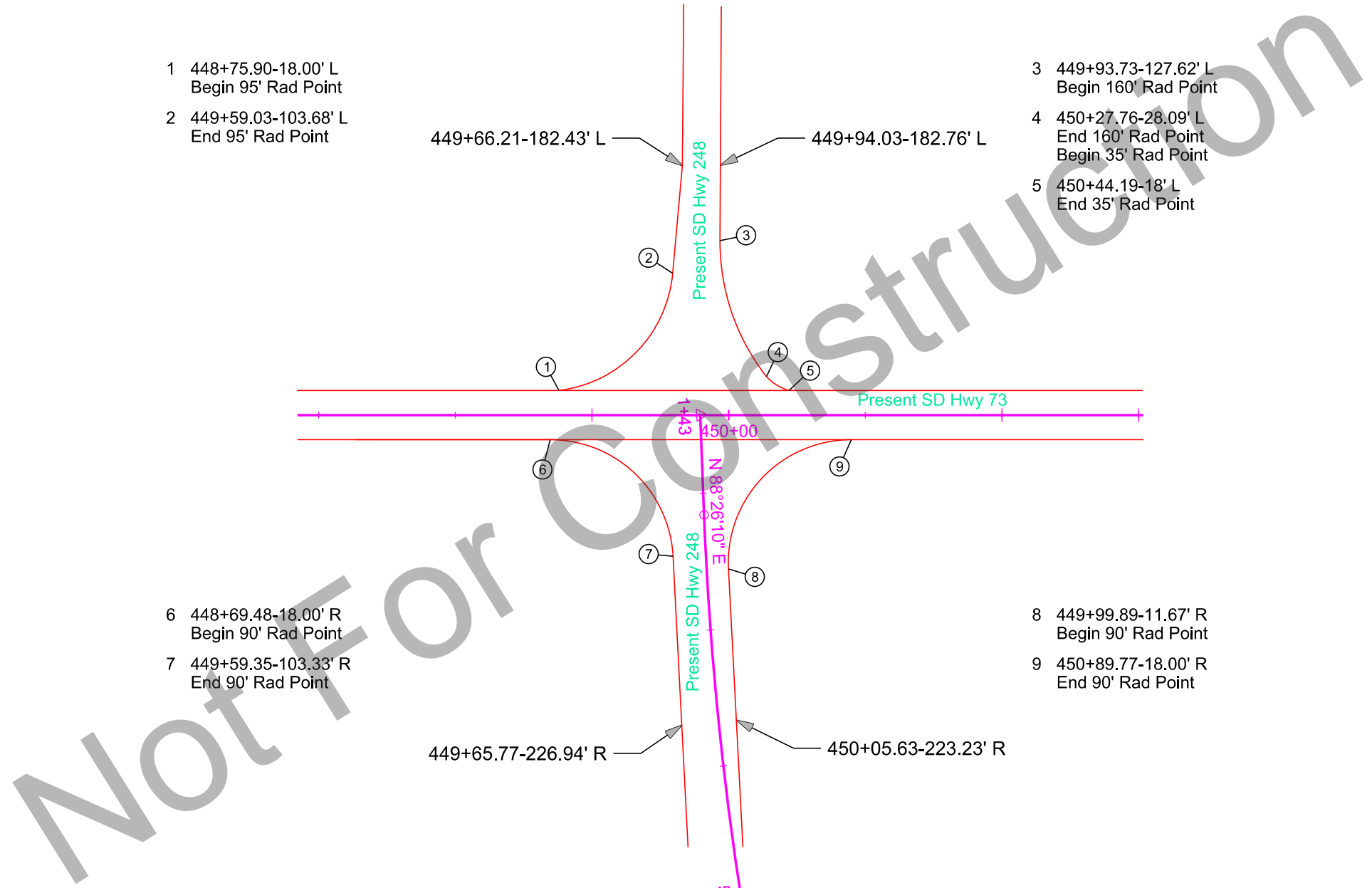
449+65.77-226.94' R

Present SD Hwy 248

450+05.63-223.23' R

- 8 449+99.89-11.67' R  
Begin 90' Rad Point
- 9 450+89.77-18.00' R  
End 90' Rad Point

5+00



Plot Scale - 1:100

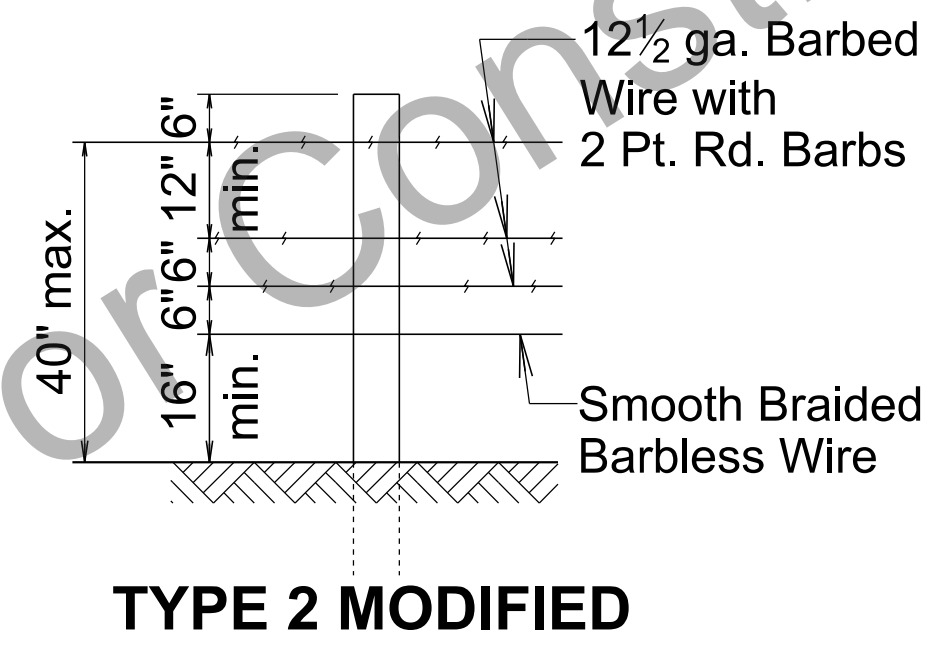
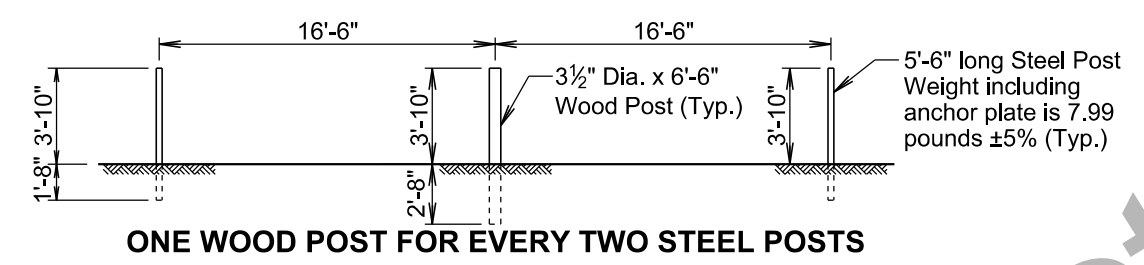
Plotted From - TRPR14341

File - ...\\jack05HV\IntersectLayout.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0073(73)62 P 0248(17)162	B45	B45

Plotting Date: 09/15/2021

**DETAILS FOR  
TYPE 2 MODIFIED  
RIGHT-OF-WAY FENCE**



**GENERAL NOTES:**  
All degrees of curvature stated for fence are at centerline of roadway.

Not For Construction

Plot Scale - 1:200

Plotted From - TRPR14341

File - ...temp\Special\FenceDetail.dgn