

Wetland Impact Table																		
Wetland Number	Location	Wetland Feature	USACE Jurisdictional Wetlands	Wetland Impact Acre(s)		Wetland Mitigation												
						Mitigation Required			USACE/11990 Bank		11990 Bank		USFWS Bank		Onsite			
				Temp	Perm	EO 11990	USACE	USFWS	Location	Acre(s)	Location	Acre(s)	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
1a	Sec 36, T-155-N, R-97-W	Natural	Y	-	-	N	N	N										
1b	Sec 1, T-154-N, R-97-W	Natural	Y	-	-	N	N	N										
2a	Sec 4, T-154-N, R-96-W	Natural	Y	-	-	N	N	N										
2c	Sec 4, T-154-N, R-96-W	Natural	Y	-	-	N	N	N										
2e	Sec 33, T-155-N, R-96-W	Natural	Y	-	-	N	N	N										
2f	Sec 33, T-155-N, R-96-W	Natural	Y	-	-	N	N	N										
3a	Sec 33, T-155-N, R-96-W	Artificial	Y	0.10	0.03	N	N	N										
3b	Sec 33, T-155-N, R-96-W	Natural	Y	0.02	-	N	N	N										
3c	Sec 34, T-155-N, R-96-W	Natural	Y	0.44	0.26	Y	Y	N	New Town Mitigation Site	0.26								
4a	Sec 4, T-154-N, R-96-W	Artificial	Y	0.75	1.24	N	N	N										
4b	Sec 4, T-154-N, R-96-W	Natural	Y	0.12	0.01	Y	N	N	New Town Mitigation Site	0.01								
5	Sec 3, T-154-N, R-96-W	Artificial	N	0.01	-	N	N	N										
6a	Sec 2, T-154-N, R-96-W	Natural	Y	0.01	-	N	N	N										
6b	Sec 2, T-154-N, R-96-W	Natural	Y	0.02	-	N	N	N										
				1.47	1.54					0.27	NA		NA		NA		NA	

Mitigation Summary Table					
	Location	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
USACE Only	NA	-	-	-	-
EO 11990 Only	New Town Mitigation	-	0.01	-	-
USACE/11990	New Town Mitigation	-	-	0.26	-
USFWS	NA	-	-	-	-
Total		0.00	0.01	0.26	0.00

¹ A wetland Jurisdictional Determination was issued by the USACE on 10/25/2017; NWO-2017-0784-BIS.

² 11990 Mitigation - All impacts to natural wetlands (natural/jurisdictional and natural/non-jurisdictional), regardless of size, as well as impacts greater than 0.10 acre to wetlands require mitigation. USACE Mitigation Requirements - All jurisdictional impacts greater than 0.10 acre to each resource (cumulative. eg 1a ,1b,1c..etc.) requires mitigation. Other Water impact greater than 300 linear feet requires mitigation.

³ All artificial/non-jurisdictional, deep water (impacts greater than 6.6 feet), Other Waters less than 300 linear feet (determined by the USACE on a case by case), and temporary impacts do not require mitigation.

Other Waters Impact Table															
Other Waters											Other Water Mitigation				
Number	Location	Type	Size		Feature	USACE Jurisdictional ¹	Impacts to Other Waters				Mitigation Required			Mitigation Location; ratio	Method
			Acre(s)	Linear Feet			Acre(s)		Linear Feet		EO 11990	USACE	USFWS		
							Temp	Perm	Temp	Perm					
OW 2b	Sec 4, T-154-N, R-96-W	Tributary	0.15	79	Natural	Y	-	-	-	-	N	N	N		
	Sec 33, T-155-N, R-96-W														
OW 2d	Sec 4, T-154-N, R-96-W	Tributary	0.13	130	Natural	Y	-	-	-	-	N	N	N		
	Sec 33, T-155-N, R-96-W														

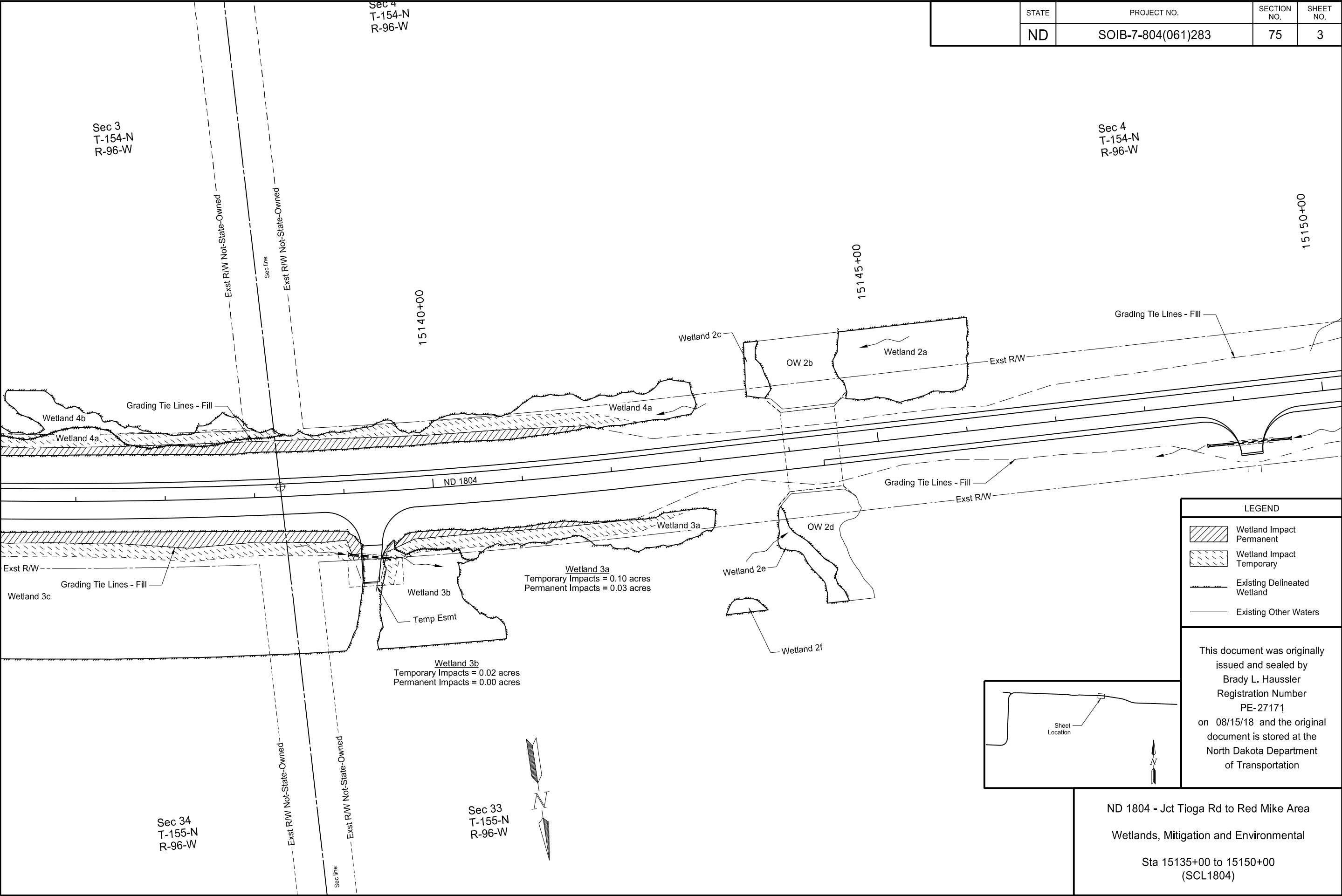
Impact Summary Table			
Permanent Impact Summary		Temporary Impacts and Additional Information	
Wetland Type	Total (Acres)	Wetland Type	Total (Acres/LF)
Natural/JD	0.27	Temporary JD	1.46
Natural/ Non-JD	0.00	Non-JD Temporary	0.01
Artificial/JD	1.27	Permanent JD > 0.10	1.54
Artificial/ Non-JD	0.00	Permanent OW	NA / NA
Total	1.54	Temporary OW	NA / NA

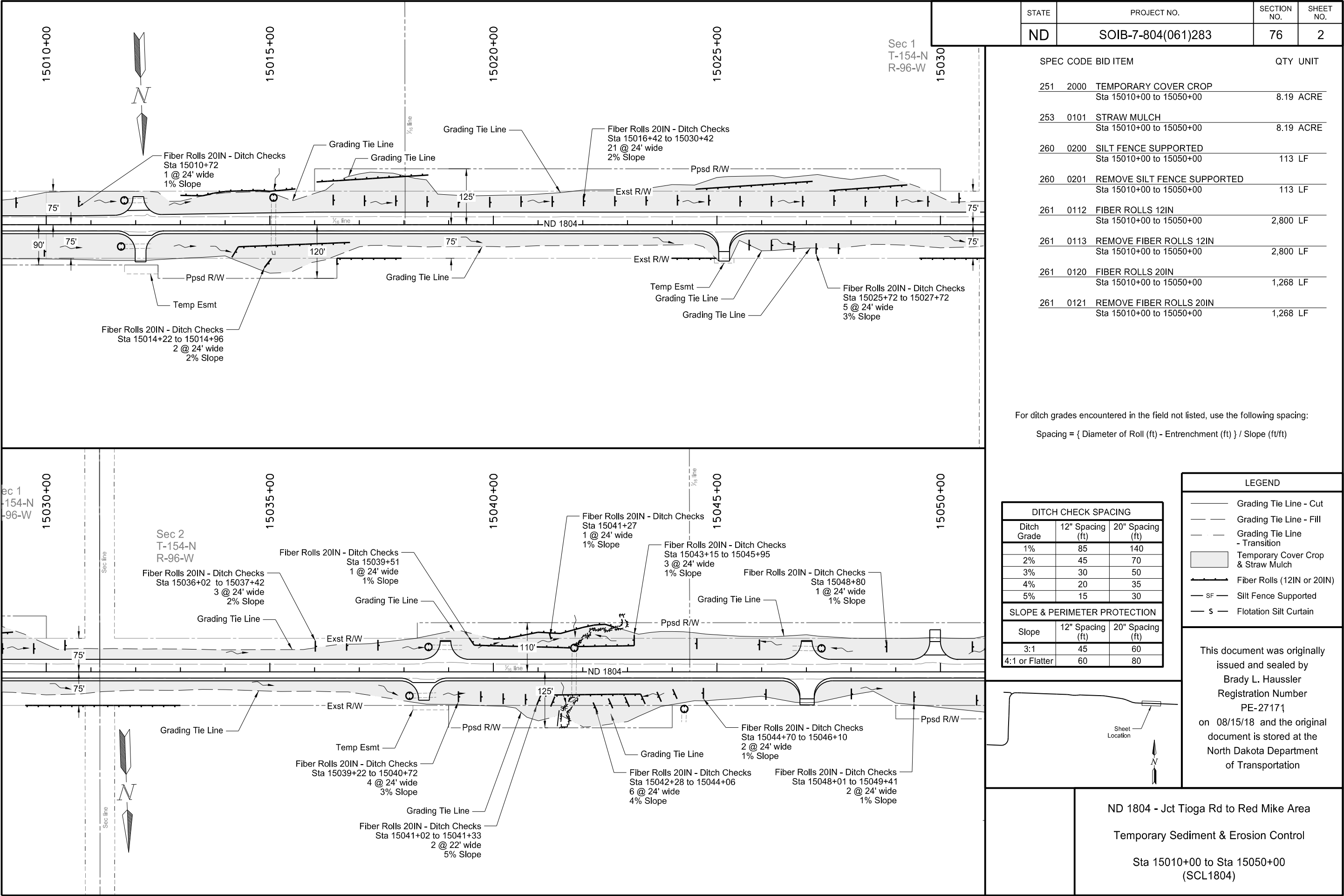
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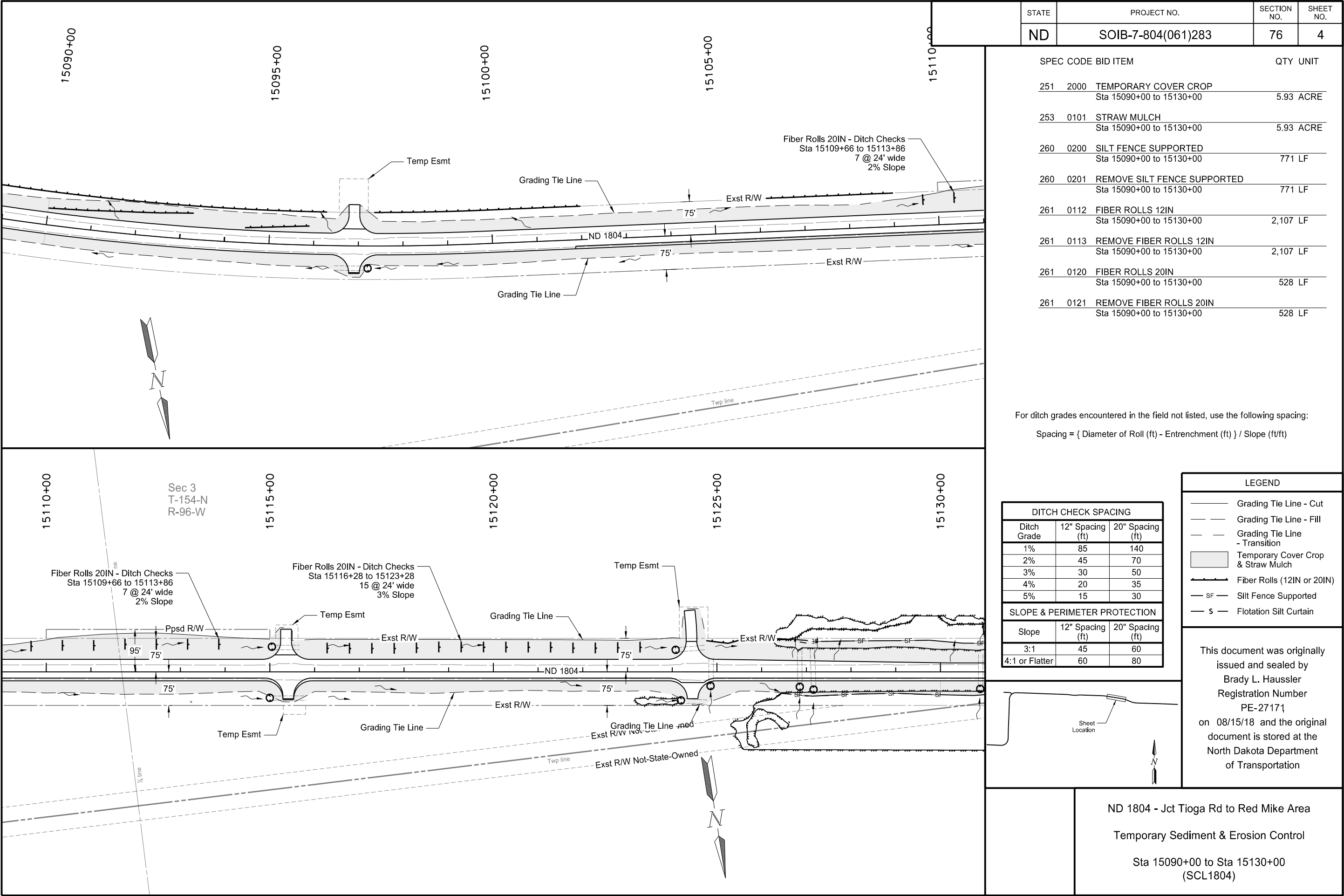
ND 1804 - Jct Tioga Rd to Red Mike Area

Wetlands, Mitigation and Environmental

Wetland Impact Table







DITCH CHECK SPACING

Ditch Grade	12" Spacing (ft)	20" Spacing (ft)
1%	85	140
2%	45	70
3%	30	50
4%	20	35
5%	15	30

SLOPE & PERIMETER PROTECTION

Slope	12" Spacing (ft)	20" Spacing (ft)
3:1	45	60
4:1 or Flatter	60	80

LEGEND

Grading Tie Line - Cut

Grading Tie Line - Fill

Grading Tie Line - Transition

Temporary Cover Crop & Straw Mulch

Fiber Rolls (12IN or 20IN)

SF Silt Fence Supported

S Flotation Silt Curtain

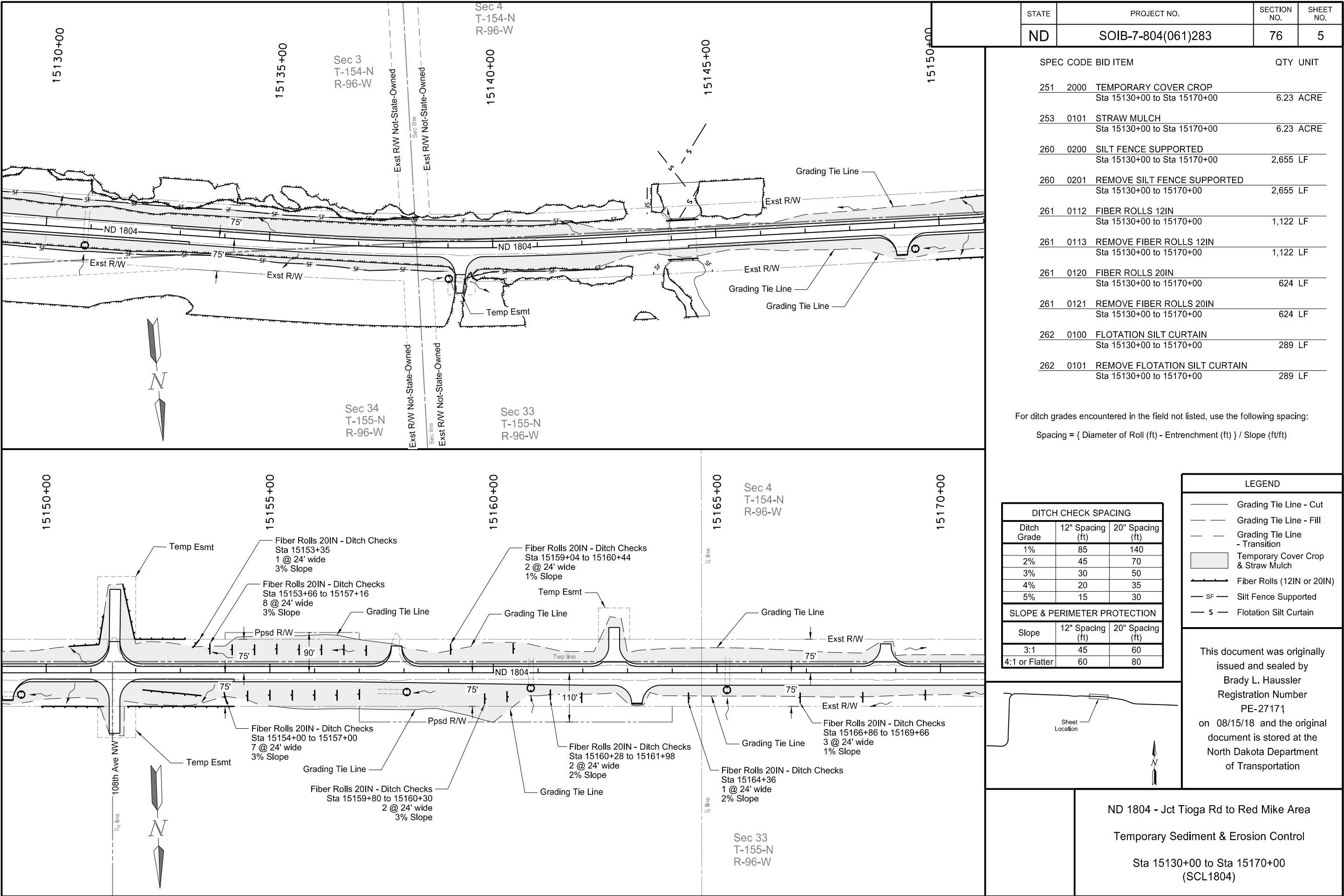
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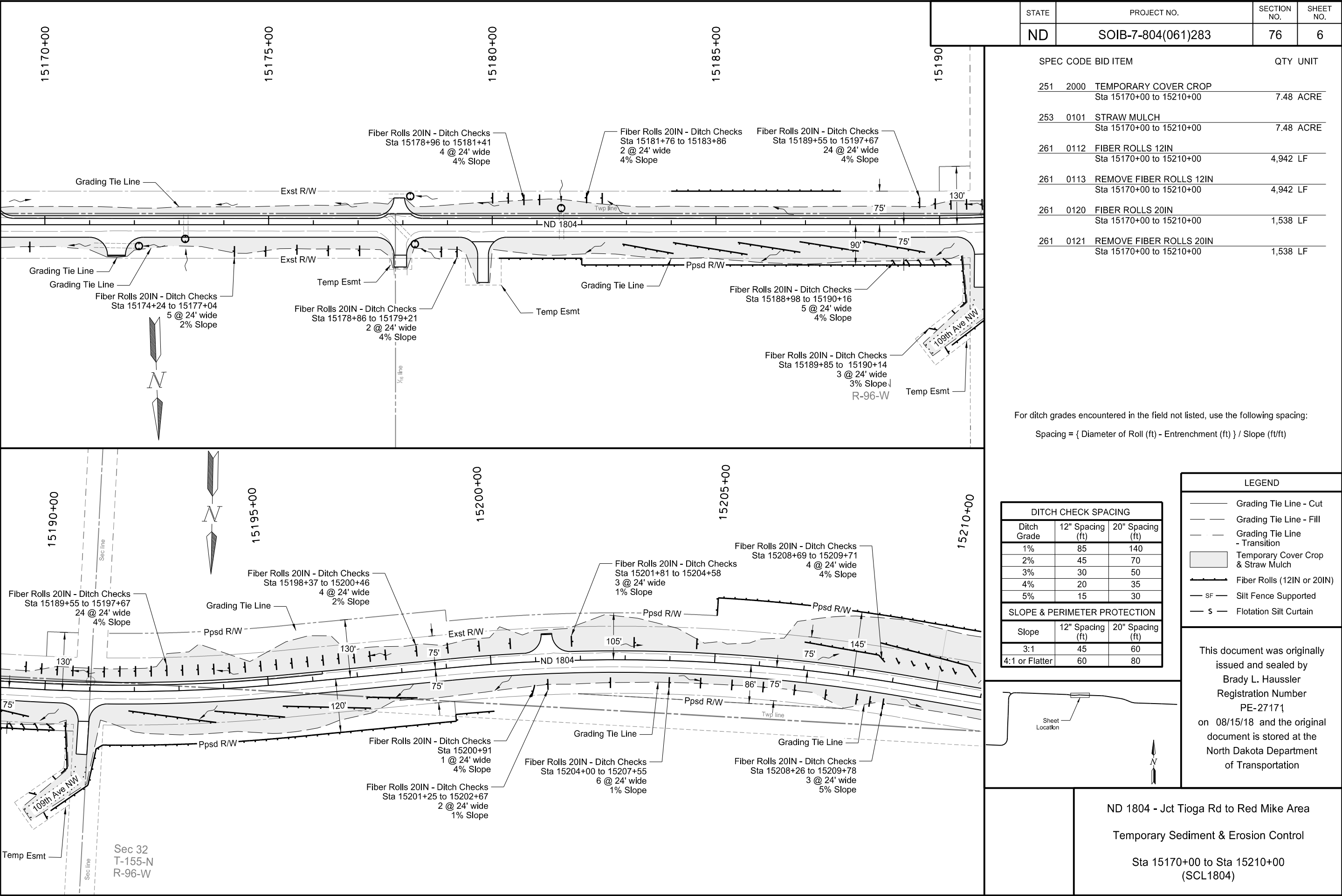
Sheet Location

ND 1804 - Jct Tioga Rd to Red Mike Area

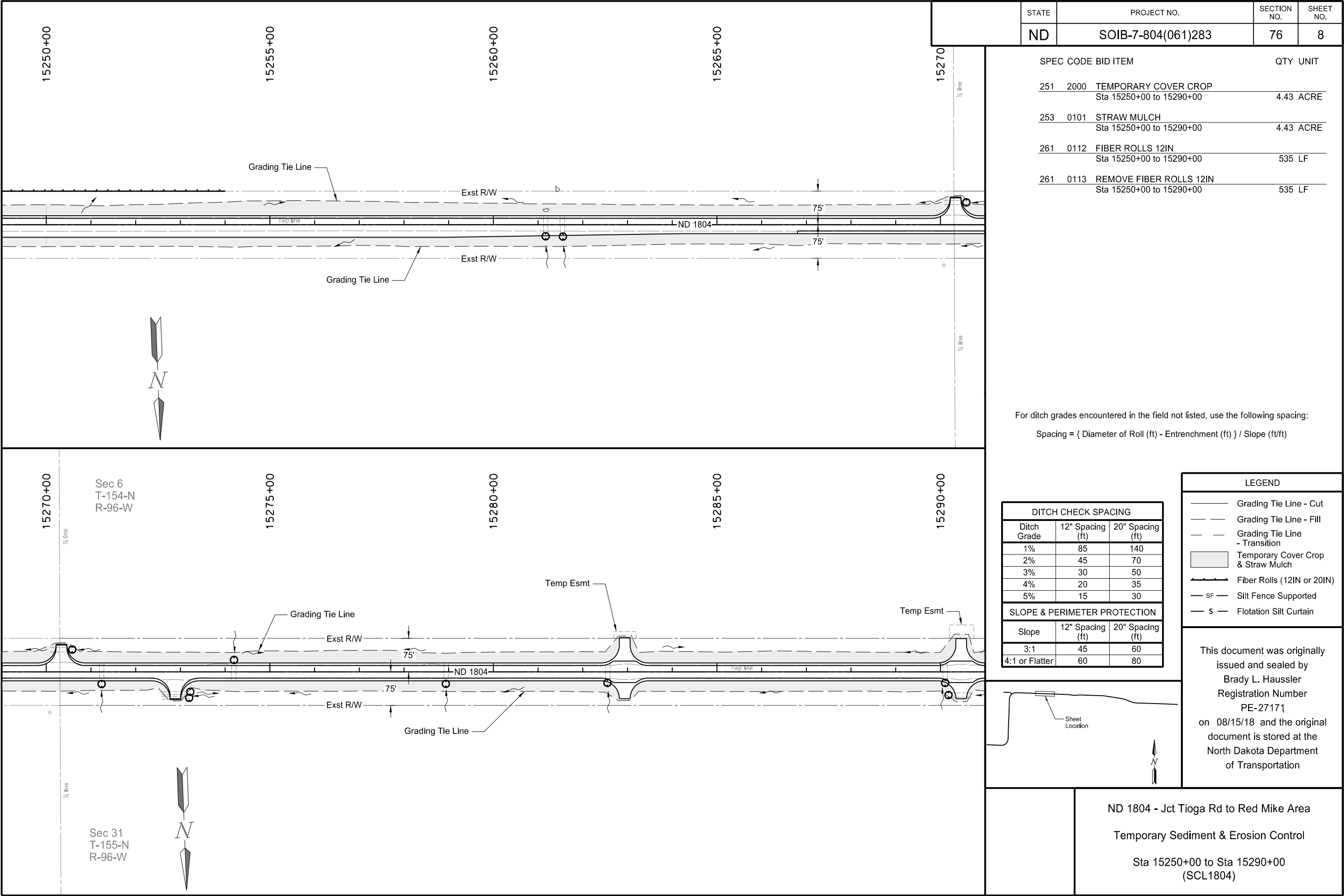
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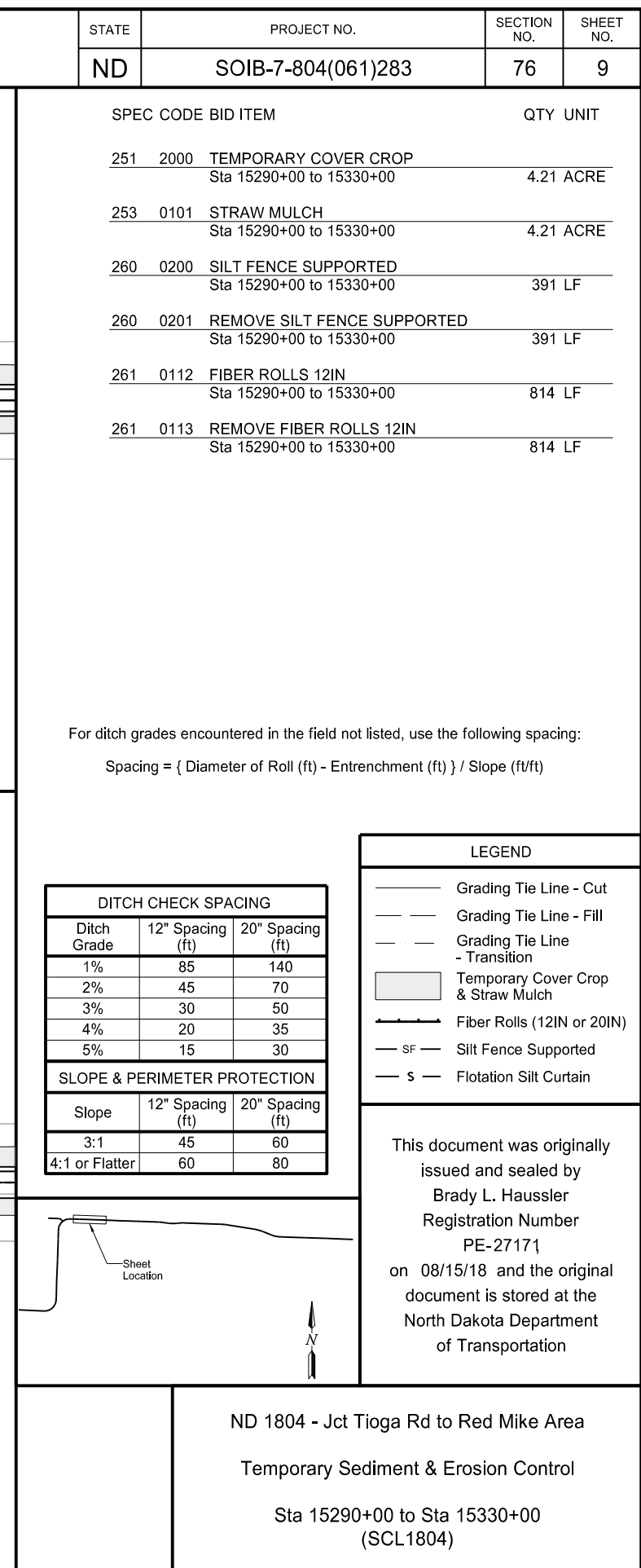
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(SCL1804)

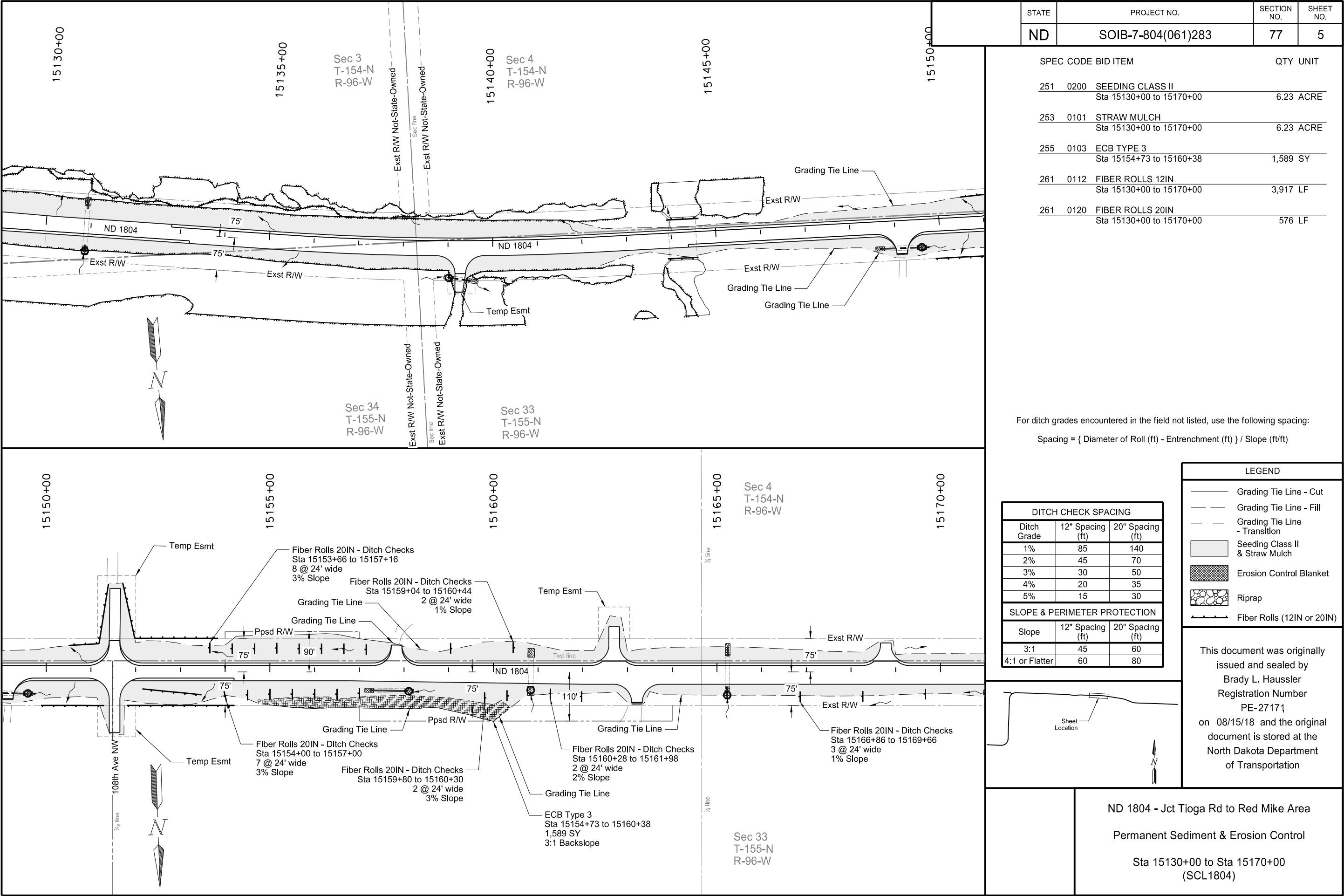




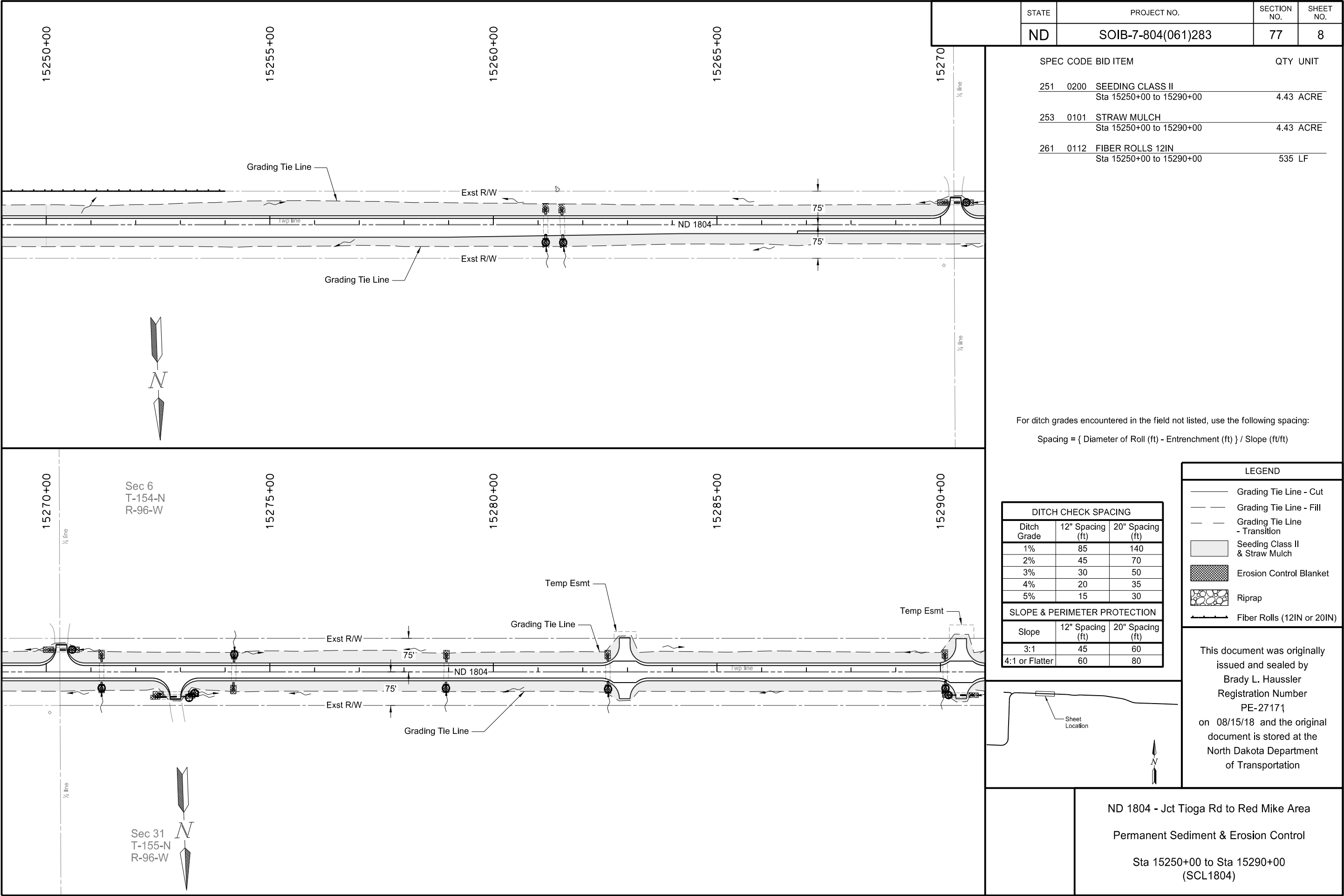
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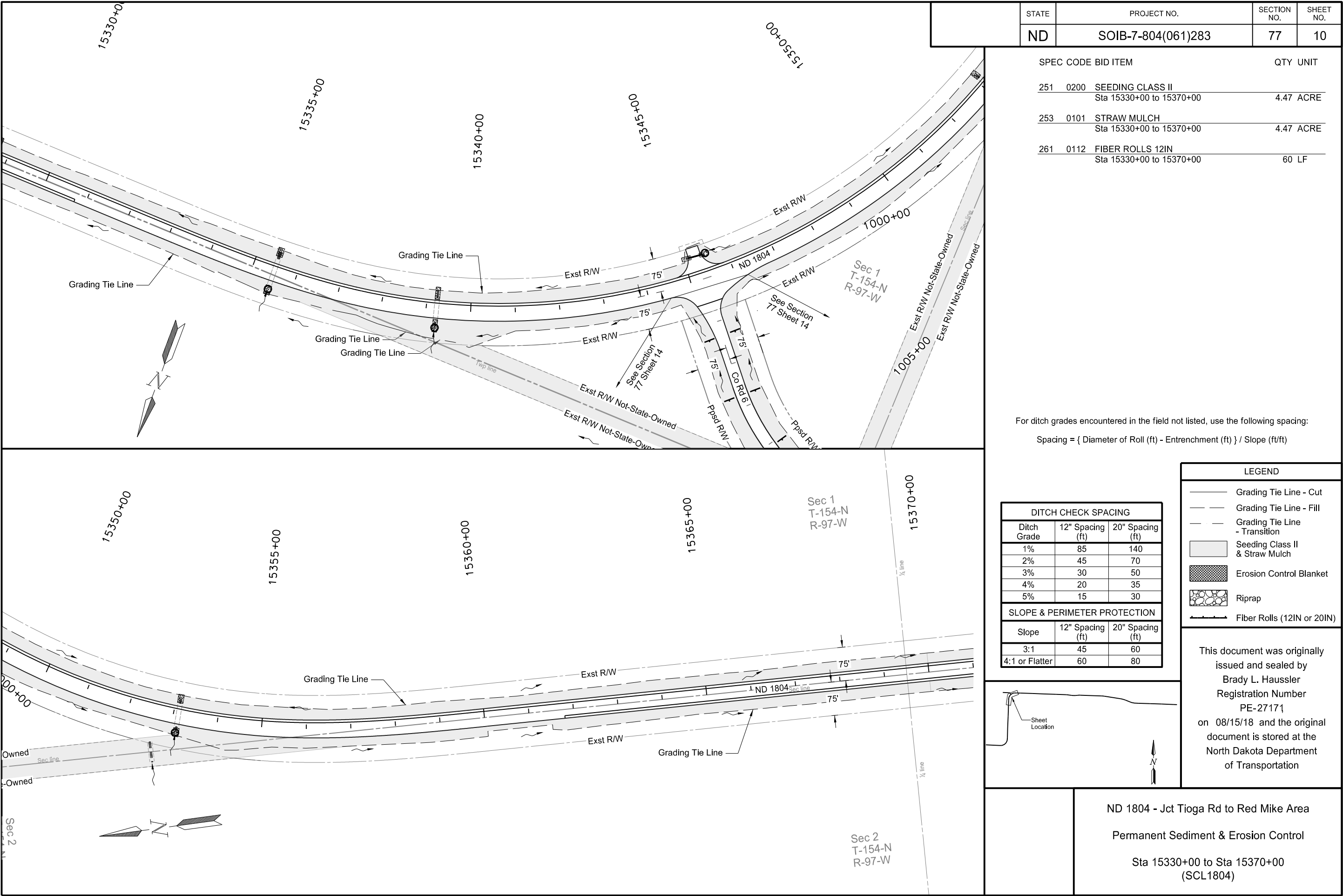


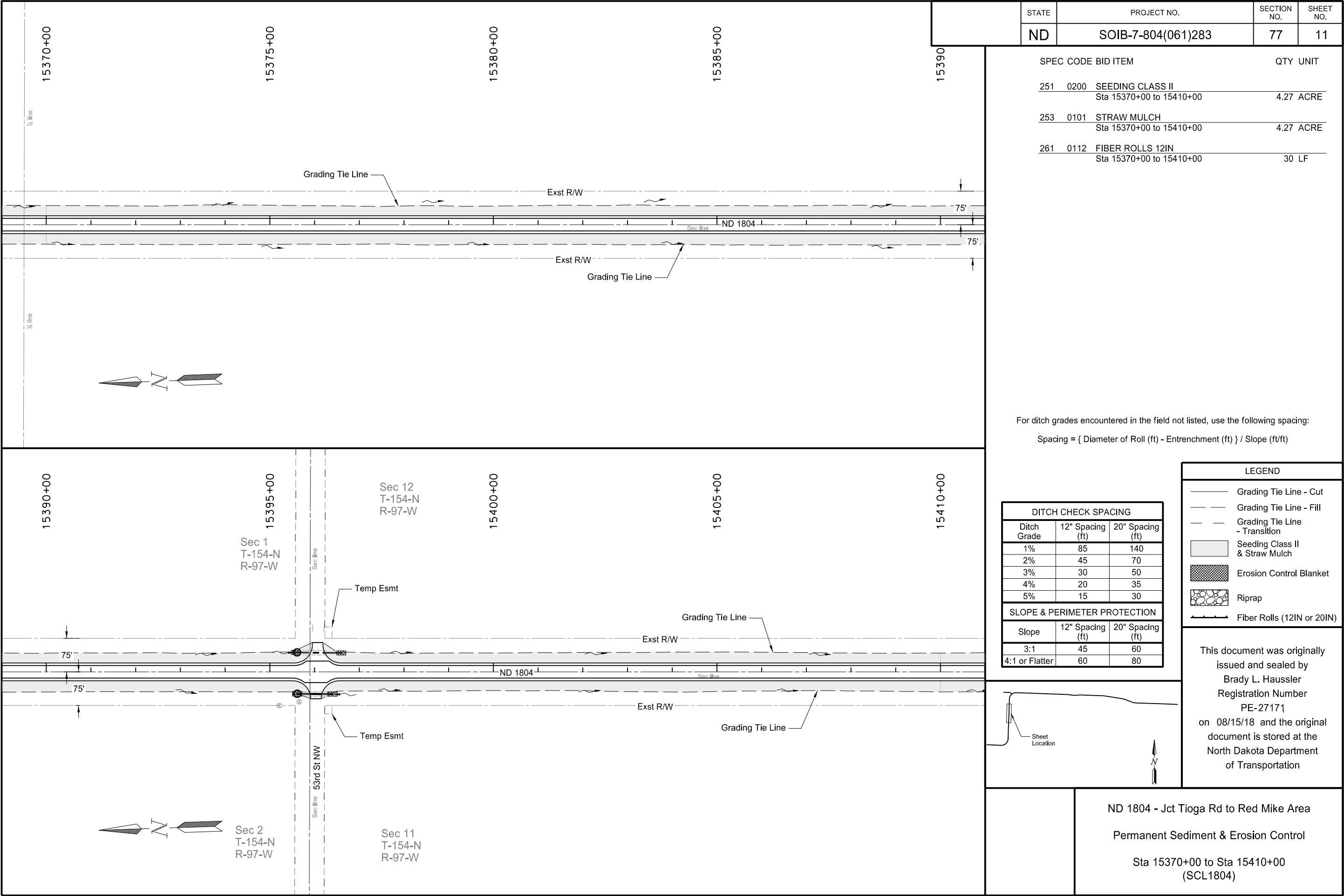


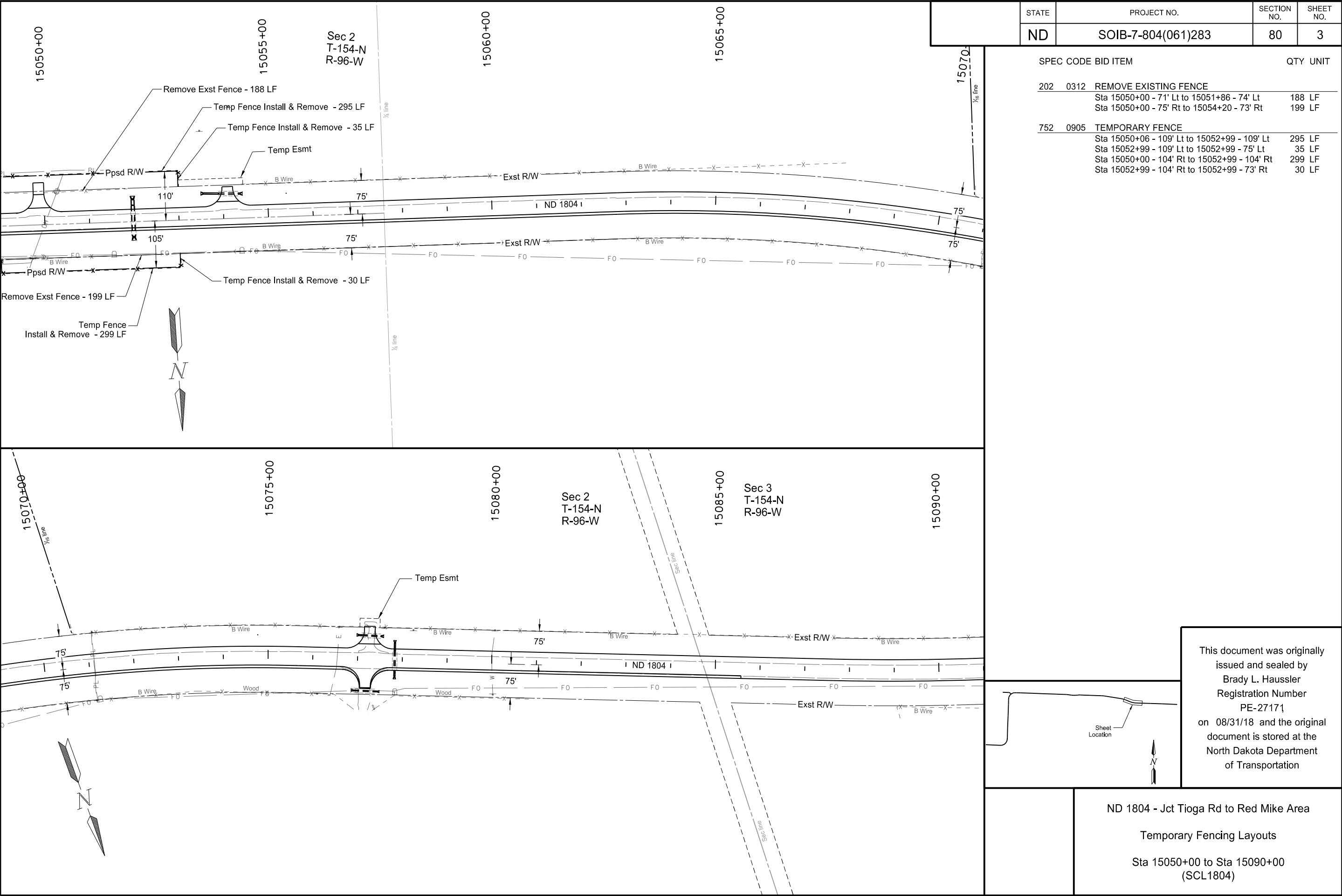


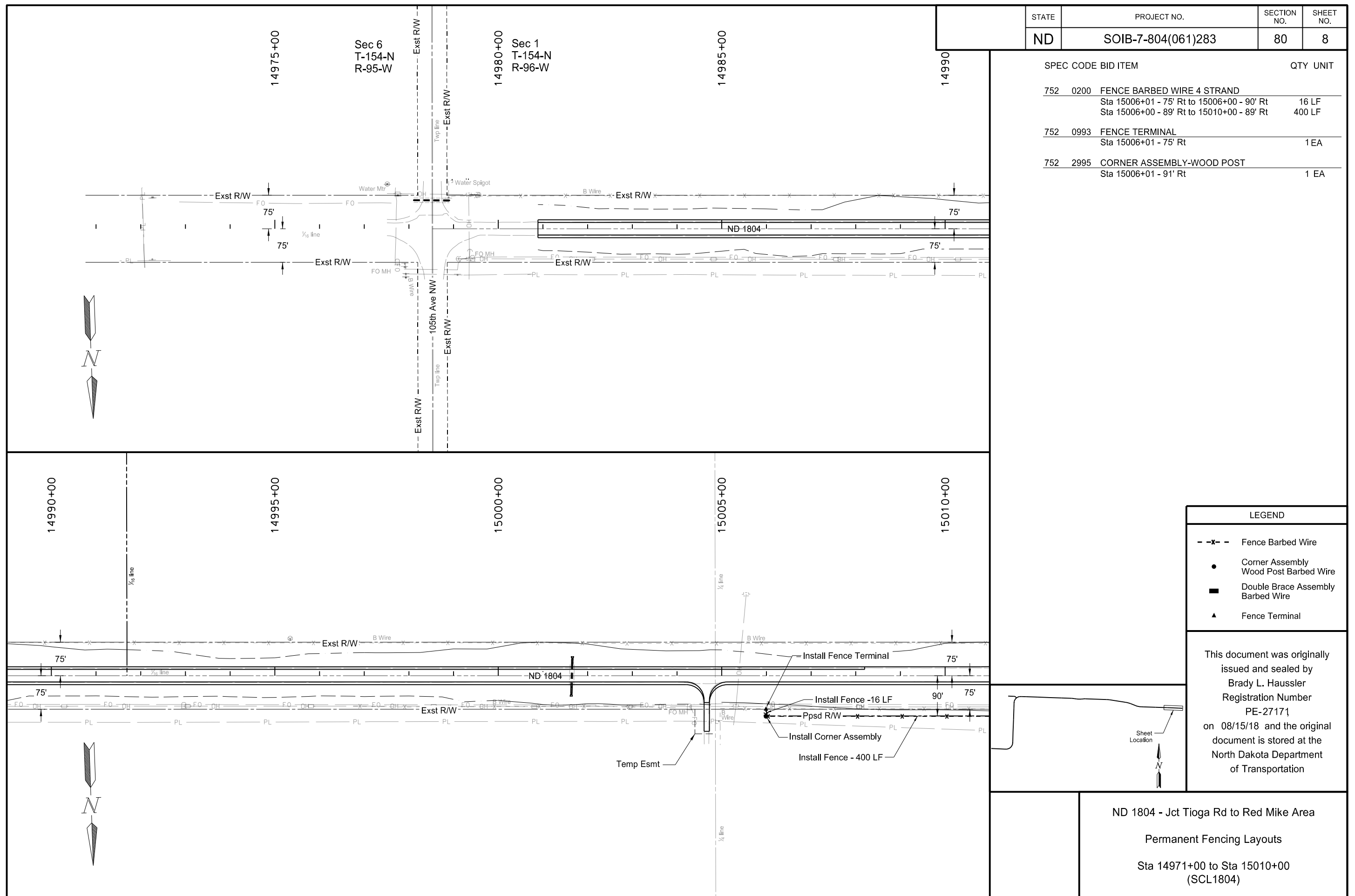
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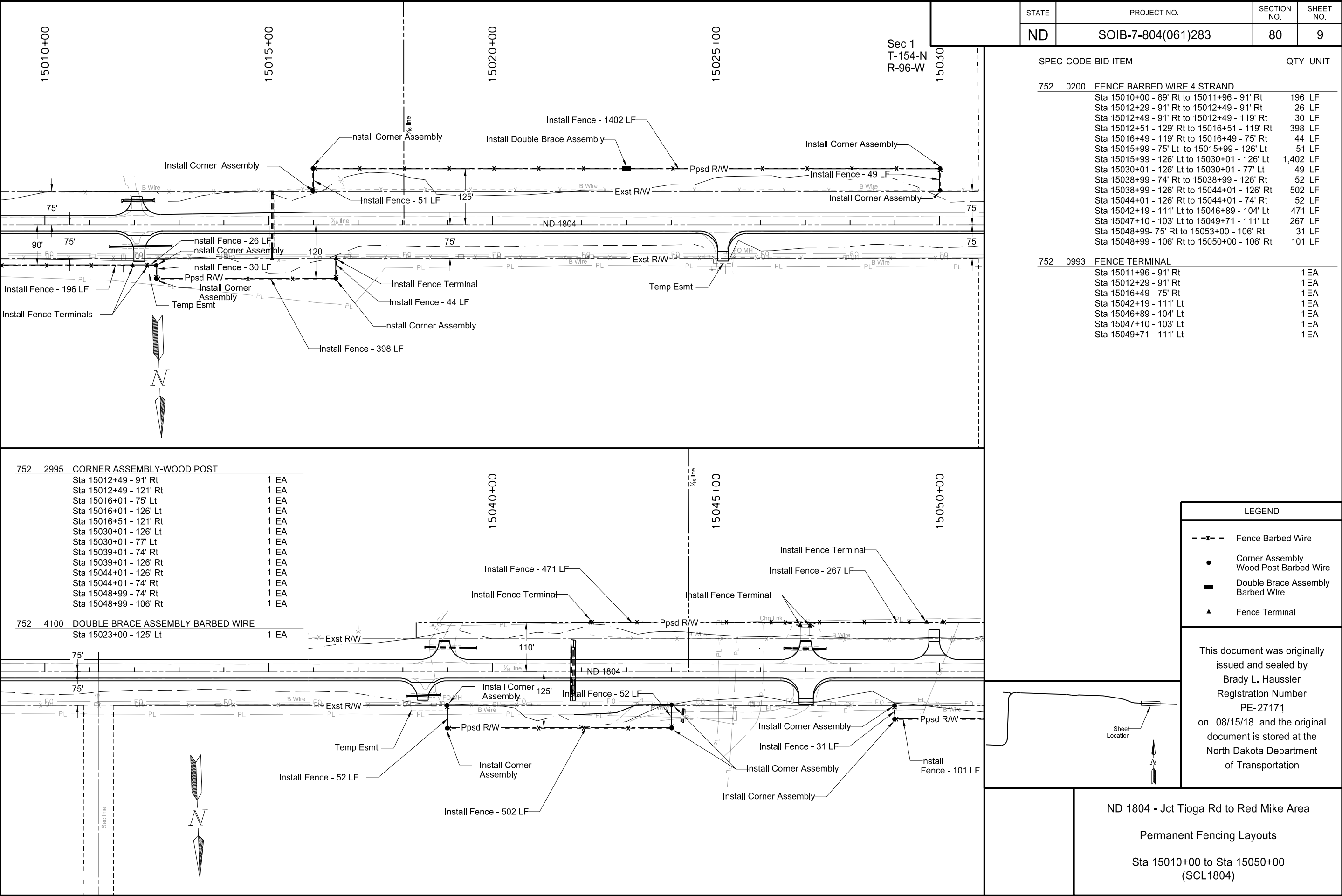


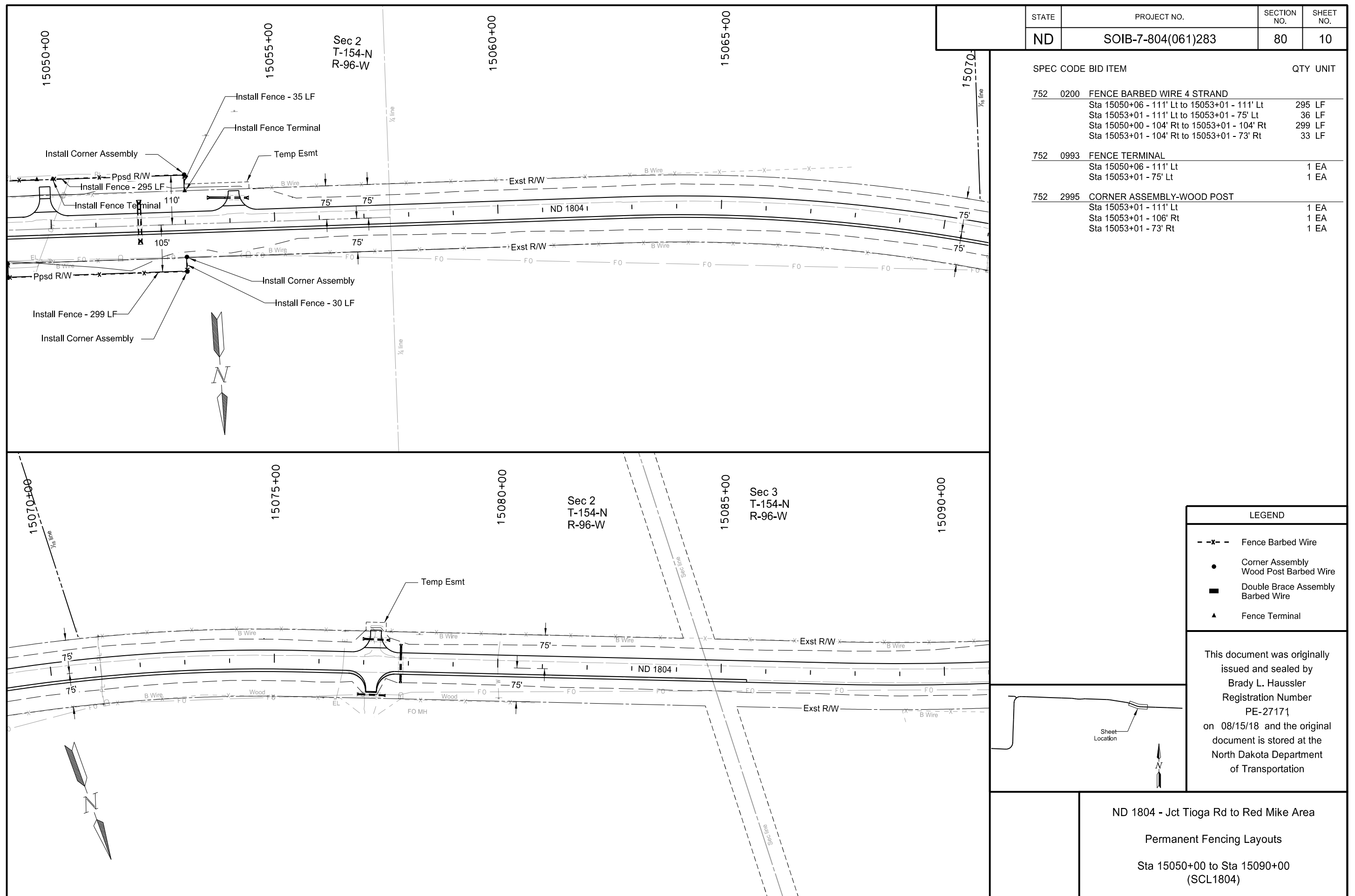






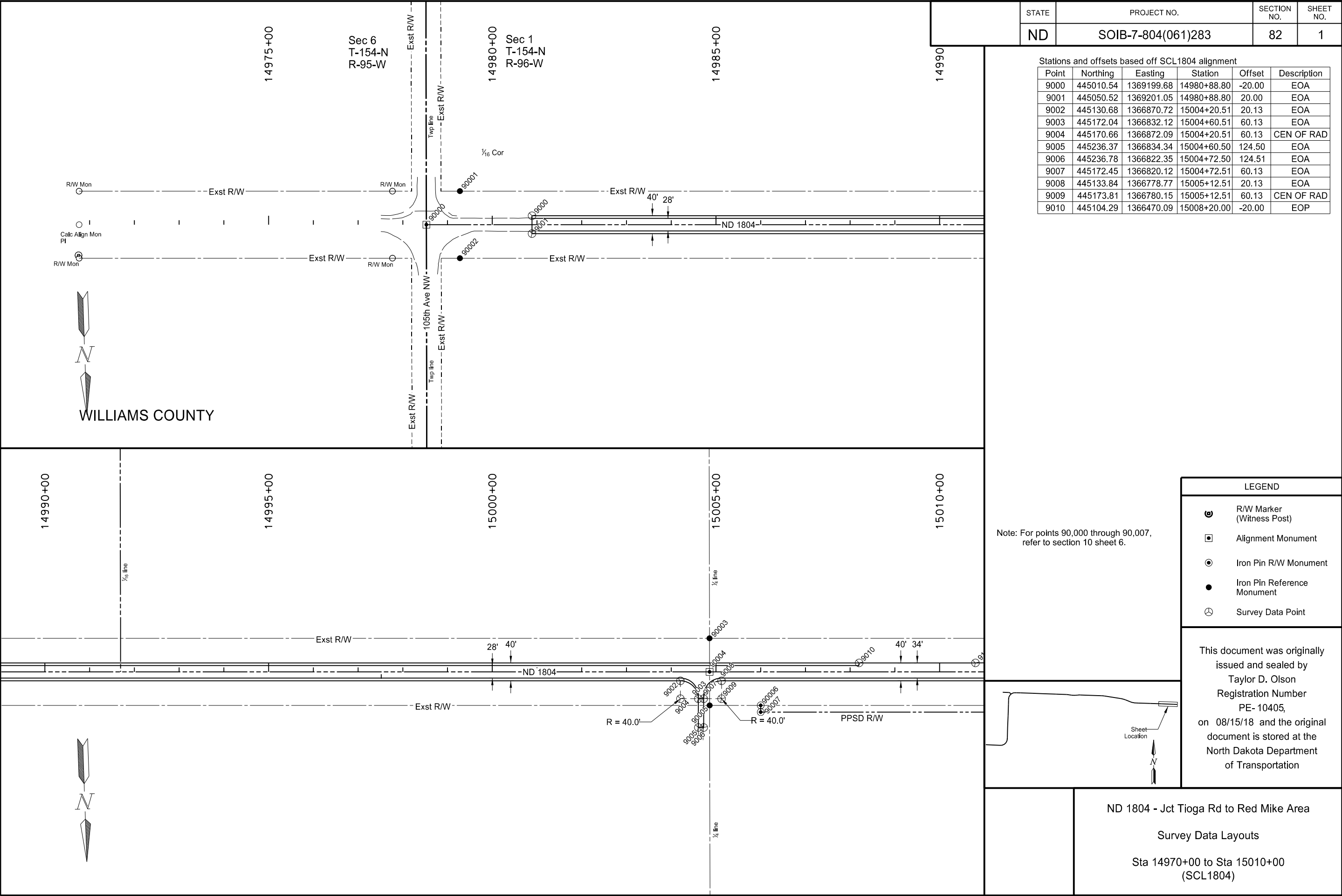


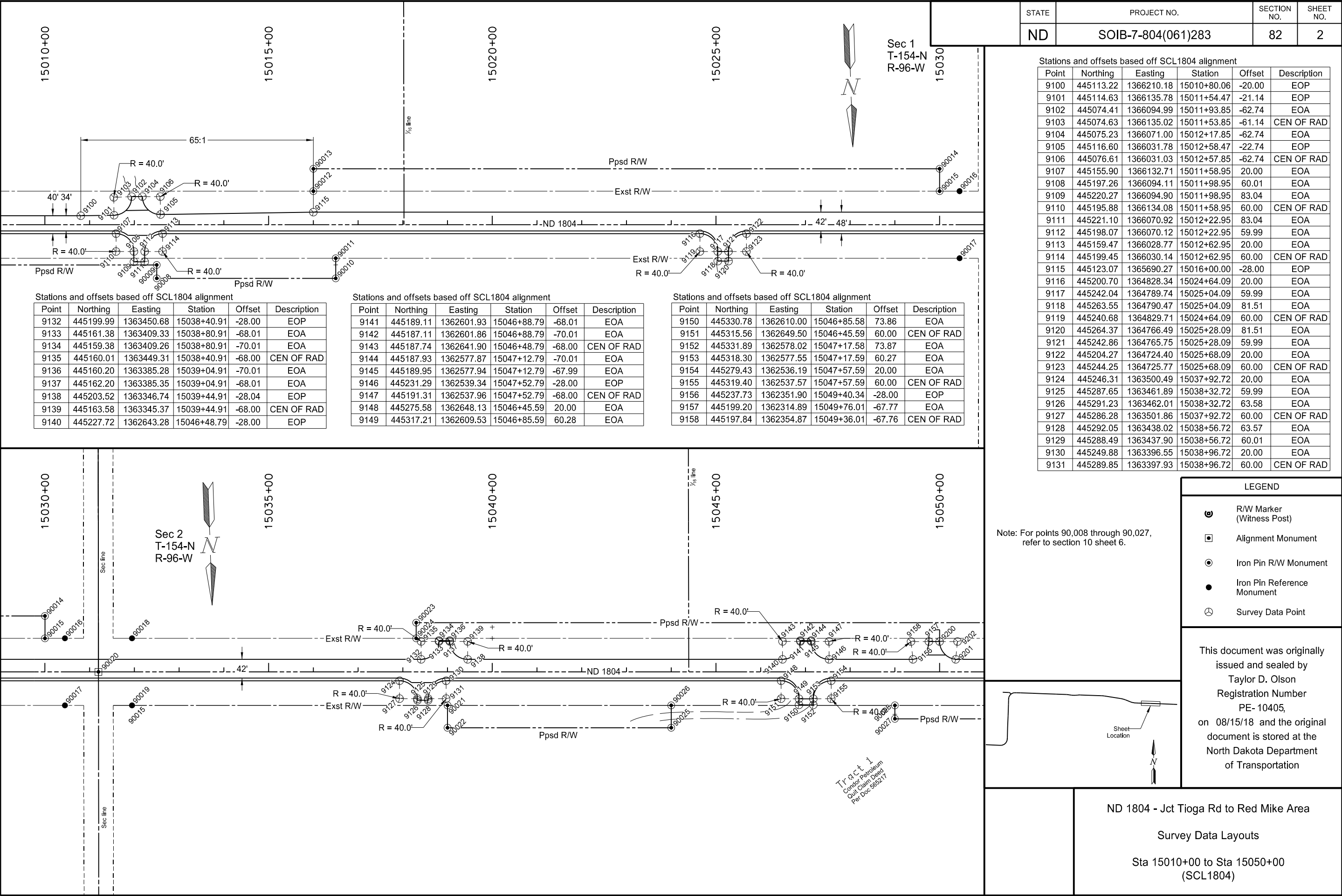


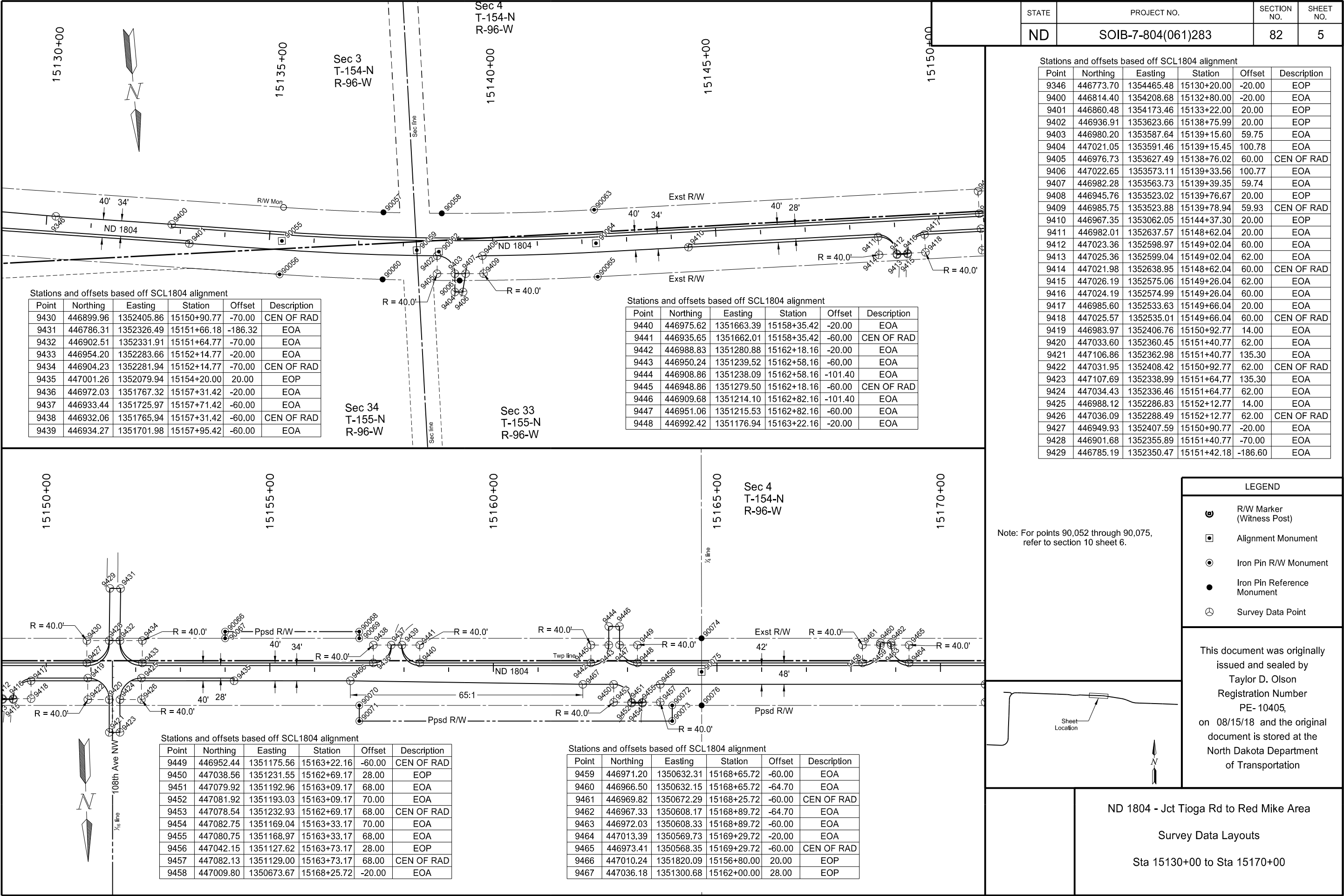


PRELIMINARY SURVEY COORDINATE AND CURVE DATA - ND 1804, JCT TIOGA RD - RED MIKE AREA											STATE	PROJECT NO.		SECTION NO.	SHEET NO.	
										ND	SOIB-7-804(061)283		81	1		
HORIZONTAL ALIGNMENT				CURVE DATA			US PUBLIC LAND SURVEY DATA				SURVEY CONTROL POINTS					
PNT	STATION	NORTHING	EASTING	ARC DEFINITION			DESC.	SEC-TWP-RGE	NORTHING	EASTING	PNT	NORTHING	EASTING	ELEV	STATION	OFFSET
ND 1804 (CHAIN SCL1804)				Curve SCL18041		Curve SCL18045		NW Cor Sec 5 T-154-N R-95-W		446179.01	1374627.43	CONTROL POINT DESCRIPTION				
Begin	14970+76.38	444995.87	1370212.19	PI STA.	= 15069+26.63	PI STA.	= 15204+25.91	SW Cor Sec 5 T-154-N R-95-W		440911.40	1374464.66	PRIMARY CONTROL (Station & Offset from Chain: SCL1804)				
Rec 1/16 Cor	14978+52.64	445022.42	1369436.38	Delta	= 19° 11' 54" (RT)	Delta	= 15° 21' 43" (RT)	S 1/4 Cor Sec 6 T-154-N R-95-W		440991.62	1371832.49	GPS 1 445074.53 1370056.98 1943.54 14972+34 73' Rt				
Rec 1/16 Cor	15004+85.73	445112.81	1366804.84	Da	= 1° 30' 00"	Da	= 1° 30' 00"	N 1/4 Cor Sec 6 T-154-N R-95-W		446264.05	1371993.70	5/8"x48" Rebar w/2" Alum Cap marked "1804-1"				
Rec 1/16 Cor	15031+19.65	445203.22	1364172.48	R	= 3819.83'	R	= 3819.83'	N 1/16 Sec 1/Sec 6 T-154-N R-96-W/R-95-W		445022.42	1369436.38	GPS 2 446811.45 1355016.55 1879.39 15124+82 104' Rt				
Rec 1/16 Cor	15057+58.66	445293.80	1361535.02	T	= 646.02'	T	= 515.17'	NW Cor Sec 6 T-154-N R-95-W		446350.00	1369479.38	5/8"x48" Rebar w/2" Alum Cap marked "1804-2"				
PC	15062+80.62	445311.72	1361013.37	L	= 1279.92'	L	= 1024.17'	W 1/4 Cor Sec 6 T-154-N R-95-W		443696.81	1369393.44	GPS 3 448706.50 1339568.35 1927.38 15280+00 1297' Rt				
PI SCL18041	15069+26.63	445333.89	1360367.74					N 1/16 Sec 1 T-154-N R-96-W		445112.81	1366804.84	NGS Brass Cap stamped "G389-1946"				
PT	15075+60.54	445567.14	1359765.30	Curve SCL18042		Curve SCL18046		S 1/4 Cor Sec 1 T-154-N R-96-W		441165.03	1366676.95	GPS 4 435789.51 1329586.08 1899.15 15481+58 96' Lt				
Sec Line	15084+75.30	445897.43	1358912.25	PI STA.	= 15093+74.10	PI STA.	= 15217+59.40	N 1/4 Cor Sec 1 T-154-N R-96-W		446436.18	1366847.71	5/8"x48" Rebar w/2" Alum Cap marked "1804-4"				
PC	15087+63.88	446001.62	1358643.13	Delta	= 12° 09' 30" (LT)	Delta	= 6° 35' 19" (LT)	NW Cor Sec 1 T-154-N R-96-W		446522.68	1364216.11					
PI SCL18042	15093+74.10	446221.95	1358074.08	Da	= 1° 00' 00"	Da	= 1° 00' 00"	N 1/16 Sec 2/Sec 1 T154-N R-96-W		445203.22	1364172.48					
PT	15099+79.73	446317.48	1357471.39	R	= 5729.65'	R	= 5729.65'	W 1/4 Cor Sec 1 T-154-N R-96-W		443893.72	1364129.18					
1/4 Line	15111+68.68	446503.62	1356297.10	T	= 610.22'	T	= 329.80'	N 1/4 Cor Sec 2 T-154-N R-96-W		446616.25	1361577.45					
PC	15135+28.17	446873.01	1353966.70	L	= 1215.85'	L	= 658.88'	N 1/16 Sec 2 T-154-N R-96-W		445293.80	1361535.02	SECONDARY CONTROL (Station & Offset from Chain: SCL1804)				
Twp Line (Bk Tan)	15136+73.48	446895.76	1353823.19					S 1/4 Cor Sec 2 T-154-N R-96-W		441350.00	1361408.47	RTK 10 446675.46 1355850.96 1907.23 15116+36 100' Rt				
Sec Line (Bk Tan)	15138+30.71	446920.38	1353667.89	Curve SCL18043				S 1/16 Sec 3/Sec 2 T-154-N R-96-W		442759.79	1358809.71	1.5" Alum Cap LS 1139 NDDOT Control				
PI SCL18043	15138+80.08	446928.10	1353619.13	PI STA.	= 15138+80.08			NW Cor Sec 2 T-154-N R-96-W		446709.81	1358938.79	RTK 11 447629.42 1332206.57 1945.01 15348+13 858' Rt				
PT	15142+31.11	446940.25	1353267.43	Delta	= 7° 01' 46" (LT)			N 1/4 Cor Sec 3 T-154-N R-96-W		446805.47	1356307.12	2" Alum Cap NDDOT Control				
1/4 Line	15164+65.70	447017.36	1351034.17	Da	= 1° 00' 00"			Center Sec 3 T-154-N R-96-W		444173.96	1356219.75					
PC	15189+69.60	447103.77	1348531.76	R	= 5729.65'			SW Cor Sec 3 T-154-N R-96-W		441634.95	1353495.84					
Sec Line (BkTan)	15191+01.16	447108.31	1348400.28	T	= 351.91'			SW Cor Sec 34 T-155-N R-96-W		446901.43	1353667.26					
PI SCL18044	15192+58.40	447113.74	1348243.14	L	= 702.95'			W 1/4 Cor Sec 34 T-155-N R-96-W		449541.80	1353756.19					
Twp Line (Ahd Tan)	161.54' to PI	447094.98	1348082.69					N 1/4 Cor Sec 33 T-155-N R-96-W		452270.24	1351211.15					
PT	15195+46.10	447080.20	1347956.29	Curve SCL18044				S 1/4 Cor Sec 33 T-155-N R-96-W		446992.38	1351033.33					
PC	15199+10.74	447037.85	1347594.12	PI STA.	= 15192+58.40			S 1/4 Cor Sec 4 T-154-N R-96-W		441729.01	1350860.74					
PI SCL18045	15204+25.91	446978.01	1347082.43	Delta	= 8° 38' 50" (LT)			SW Cor Sec 4 T-154-N R-96-W		441823.07	1348225.63					
PT	15209+34.91	447055.87	1346573.18	Da	= 1° 30' 00"			SW Cor Sec 33 T-155-N R-96-W		447083.33	1348399.44					
PC	15214+29.60	447130.63	1346084.17	R	= 3819.83'			W 1/4 Cor Sec 33 T-155-N R-96-W		449723.31	1348488.33					
1/4 Line (Bk Tan)	15217+51.63	447179.30	1345765.88	T	= 288.80'			Center Sec 32 T-155-N R-96-W		449823.05	1345851.79	All coordinates and measurements on this document derived from the International Foot definition. This document was originally issued and sealed by Carl P. Olson Registration Number LS- 4687 , on 08/15/18 and the original document is stored at the North Dakota Department of Transportation				
PI SCL18046	15217+59.40	447180.48	1345758.15	L	= 576.50'			S 1/4 Cor Sec 32 T-155-N R-96-W		447180.19	1345765.91					
PT	15220+88.48	447192.58	1345428.57					S 1/4 Cor Sec 5 T-154-N R-96-W		441913.17	1345589.39					
Rec Sec Cor	15243+86.29	447276.93	1343132.31					☐ Assumed Coordinates		INITIALIZING BENCH MARK NDGPS Station (OPUS)						
Rec 1/4 Cor	15270+30.45	447374.44	1340489.94					☒ All coordinates on this sheet are Williams County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9998445		☒ NAVD-88 ☐ NGVD-29						
NOTES: Sheet 1 of 2				Date Survey Completed 07/31/2017							☐ GEOID 09 ☐ _____ ☒ GEOID 12B					

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - ND 1804, JCT TIOGA RD - RED MIKE AREA										STATE	PROJECT NO.			SECTION NO.	SHEET NO.	
										ND	SOIB-7-804(061)283			81	2	
HORIZONTAL ALIGNMENT				CURVE DATA			US PUBLIC LAND SURVEY DATA			REFERENCE MARKERS						
PNT	STATION	NORTHING	EASTING	ARC DEFINITION			DESC.	SEC-TWP-RGE	NORTHING	EASTING	R Mkr #	NORTHING	EASTING	STATION	O/S	ALIGNMENT
Rec Sec Cor	15296+67.84	447471.46	1337854.34	Curve SCL18047			W 1/4 Cor Sec 5 T-154-N R-96-W		444644.32	1343042.88						
Rec 1/4 Cor	15323+05.74	447566.38	1335218.15	PI STA	= 15349+43.64		SW Cor Sec 32 T-155-N R-96-W		447276.93	1343132.31	284	445105.02	1367818.84	14994+72	27' Rt	SCL1804
TS	15332+50.22	447600.37	1334274.29	Delta	= 90° 08' 52" (LT)		W 1/4 Cor Sec 32 T-155-N R-96-W		449922.67	1343213.34	285	445293.10	1362547.81	15047+46	34' Rt	SCL1804
SC	15337+50.22	447589.31	1333775.08	Da	= 3° 59' 57"		N 1/4 Cor Sec 31 T-155-N R-96-W		452645.69	1340658.47	286	446351.09	1357426.55	15100+29	26' Rt	SCL1804
PI SCL18047	15349+43.64	447661.31	1332581.96	R	= 1432.69'		S 1/4 Cor Sec 31 T-155-N R-96-W		447374.44	1340489.94	287	447005.32	1352193.77	15153+06	28' Rt	SCL1804
CS	15355+04.38	446466.07	1332571.05	Ls	= 500.00'		S 1/4 Cor Sec 6 T-154-N R-96-W		442100.08	1340314.45	288	447047.68	1346917.23	15205+91	29' Rt	SCL1804
ST	15360+04.38	445968.84	1332525.39	Sc	= 9° 59' 53"		W 1/4 Cor Sec 31 T-155-N R-96-W		450111.55	1337942.36	289	447358.43	1341657.07	15258+64	27' Rt	SCL1804
Rec 1/4 Cor	15369+50.40	445023.34	1332493.79	Ts	= 1693.42'		SW Cor Sec 31 T-155-N R-96-W		447471.46	1337854.34	290	447552.78	1336372.50	15311+52	28' Rt	SCL1804
Rec Sec Cor	15395+89.84	442385.37	1332405.61	L	= 1754.16'		W 1/4 Cor Sec 6 T-154-N R-96-W		444835.92	1337767.07	291	445549.50	1332483.66	15364+25	28' Rt	SCL1804
Rec 1/4 Cor	15422+29.21	439747.48	1332317.34				N 1/4 Cor Sec 36 T-155-N R-97-W		452836.82	1335392.84	292	440268.99	1332306.89	15417+08	28' Rt	SCL1804
TS	15445+01.03	437476.93	1332241.36	Curve SCL18048			S 1/4 Cor Sec 36 T-155-N R-97-W		447566.38	1335218.15	293	435864.57	1330765.08	15469+82	24' Rt	SCL1804
Sec Line (Bk Tan)	15448+68.57	437109.59	1332229.07	PI STA	= 15462+04.04		NW Cor Sec 36 T-155-N R-97-W		452926.55	1332755.08						
SC	15450+01.03	436979.70	1332195.68	Delta	= 90° 31' 38" (RT)		SW Cor Sec 36 T-155-N R-97-W		447661.31	1332581.96						
PI SCL18048	15462+04.04	435774.87	1332184.40	Da	= 3° 59' 57"		NW Cor Sec 2 T-154-N R-97-W		447855.49	1327309.07						
CS	15467+64.68	435855.22	1330982.21	R	= 1432.69'		W 1/4 Cor Sec 2 T-154-N R-97-W		445213.96	1327222.01						
ST	15472+64.68	435847.49	1330482.94	Ls	= 500.00'		W 1/4 Cor Sec 1 T-154-N R-97-W		445023.34	1332493.79						
1/4 Line	15481+98.64	435887.31	1329549.83	Sc	= 9° 59' 53"		SW Cor Sec 2 T-154-N R-97-W		442577.42	1327134.40						
End	15503+00.45	435976.93	1327449.93	Ts	= 1703.01'		SW Cor Sec 1 T-154-N R-97-W		442385.37	1332405.61						
				L	= 1763.65'		S 1/4 Cor Sec 1 T-154-N R-97-W		442290.82	1335042.57						
							SE Cor Sec 1 T-154-N R-97-W		442196.33	1337679.66						
Co Rd 6 (CHAIN PR54ST)				Curve PR54ST_3			W 1/4 Cor Sec 11 T-154-N R-97-W		439941.54	1327045.65						
Begin	1000+00.00	447282.95	1333070.28	PI STA.	= 1004+78.34		W 1/4 Cor Sec 12 T-154-N R-97-W		439747.48	1332317.34						
PC	1002+51.32	447478.12	1332911.95	Delta	= 48° 50' 25" (RT)		E 1/4 Cor Sec 12 T-154-N R-97-W		439556.96	1337592.21						
PI	1004+78.34	447654.42	1332768.92	Da	= 11° 27' 33"		S 1/4 Cor Sec 11 T-154-N R-97-W		437206.34	1329593.63						
PT	1006+77.53	447662.78	1332542.05	R	= 500.00'		SW Cor Sec 12 T-154-N R-97-W		437109.59	1332229.07						
End	1020+00.00	447711.45	1331220.48	T	= 227.02'		S 1/4 Cor Sec 12 T-154-N R-97-W		437014.39	1334867.14						
				L	= 426.21'		W 1/4 Cor Sec 13 T-154-N R-97-W		434471.19	1332141.30						
							Center Sec 14 T-154-N R-97-W		434561.25	1329505.80						
							NW Cor Sec 14 T-154-N R-97-W		437305.73	1326956.96						
											All coordinates and measurements on this document derived from the International Foot definition.			This document was originally issued and sealed by Carl P. Olson Registration Number LS- 4687 , on 08/15/18 and the original document is stored at the North Dakota Department of Transportation		
						☐ Assumed Coordinates										
						☒ All coordinates on this sheet are Williams County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9998445				INITIALIZING BENCH MARK NDGPS Station (OPUS)						
										☒ NAVD-88						
										☐ NGVD-29						
										☐ GEOID 09	☐					
										☒ GEOID 12B						
NOTES: Sheet 2 of 2				Date Survey Completed 07/31/2017												







LEGEND

R/W Marker (Witness Post)

Alignment Monument

Iron Pin R/W Monument

Iron Pin Reference Monument

Survey Data Point

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Note: For points 90,052 through 90,075, refer to section 10 sheet 6.

Sheet Location

ND 1804 - Jct Tioga Rd to Red Mike Area

Survey Data Layouts

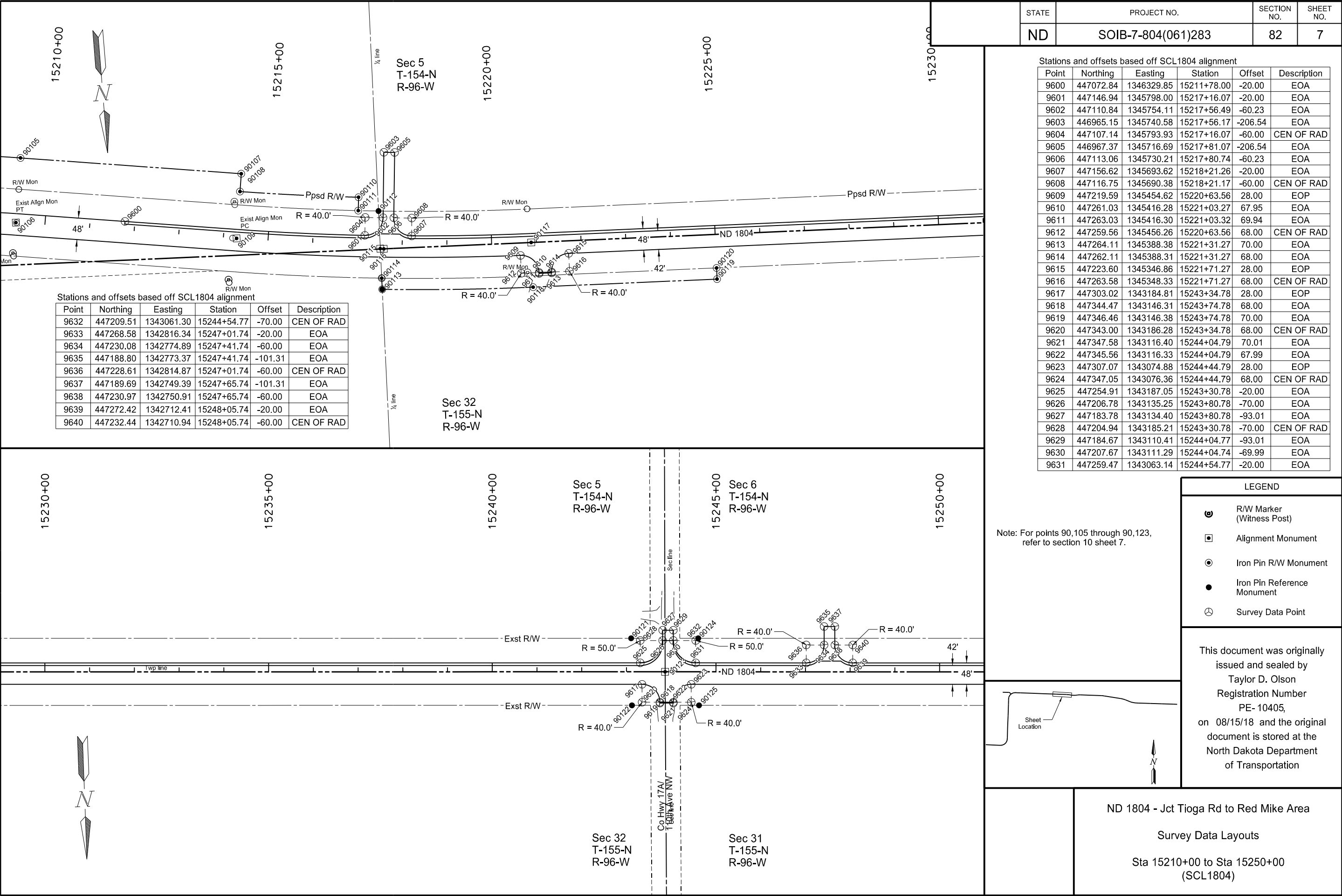
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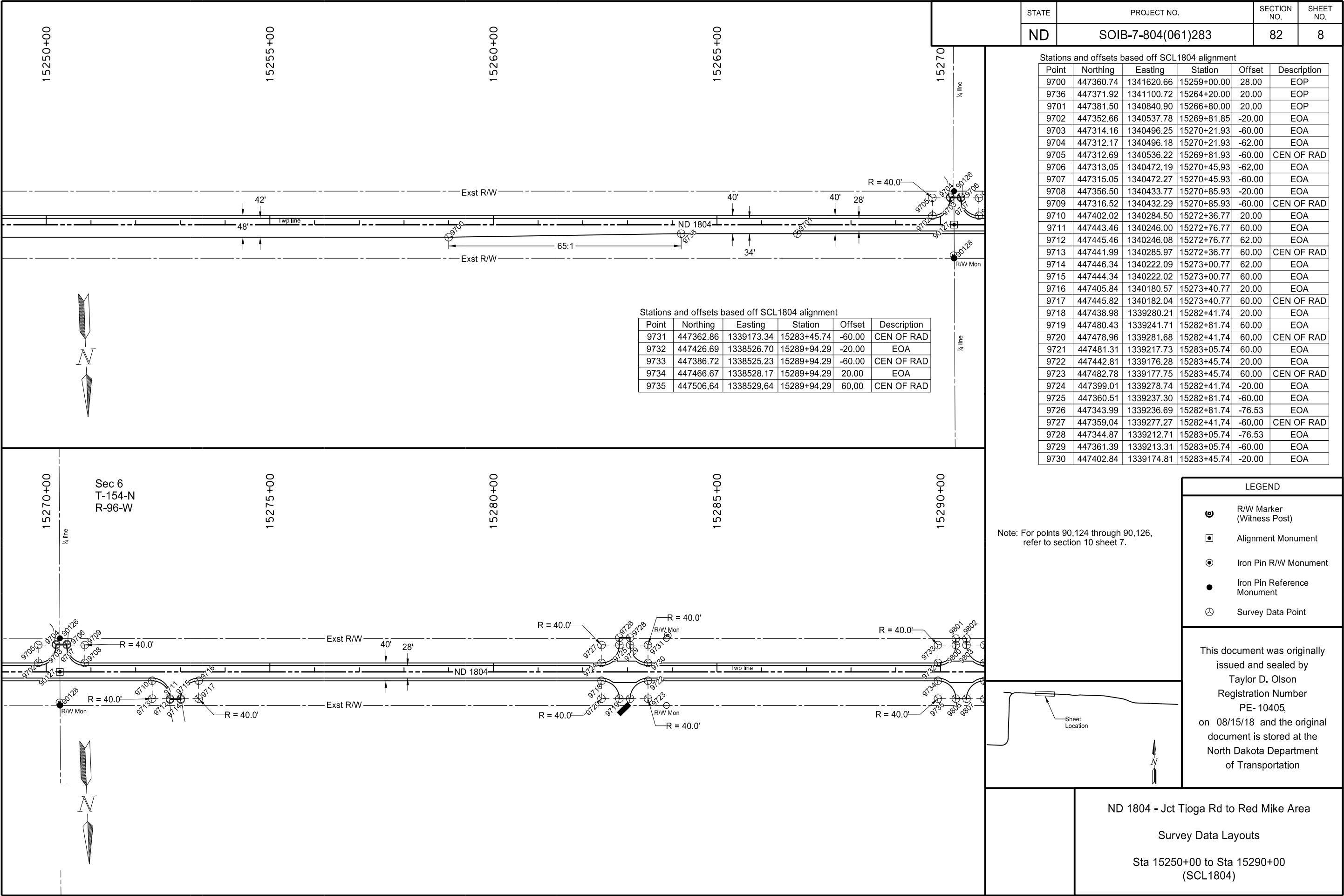
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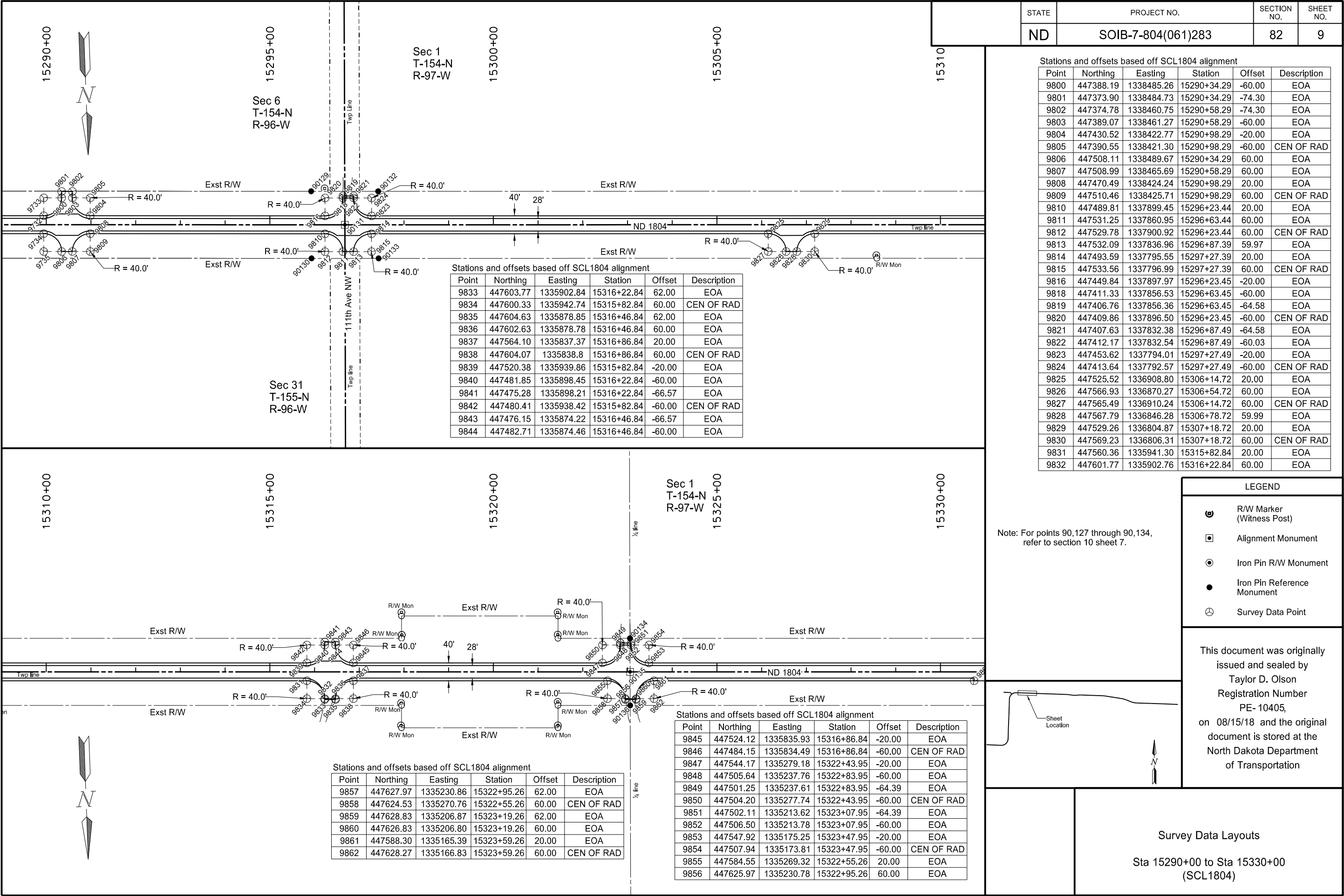
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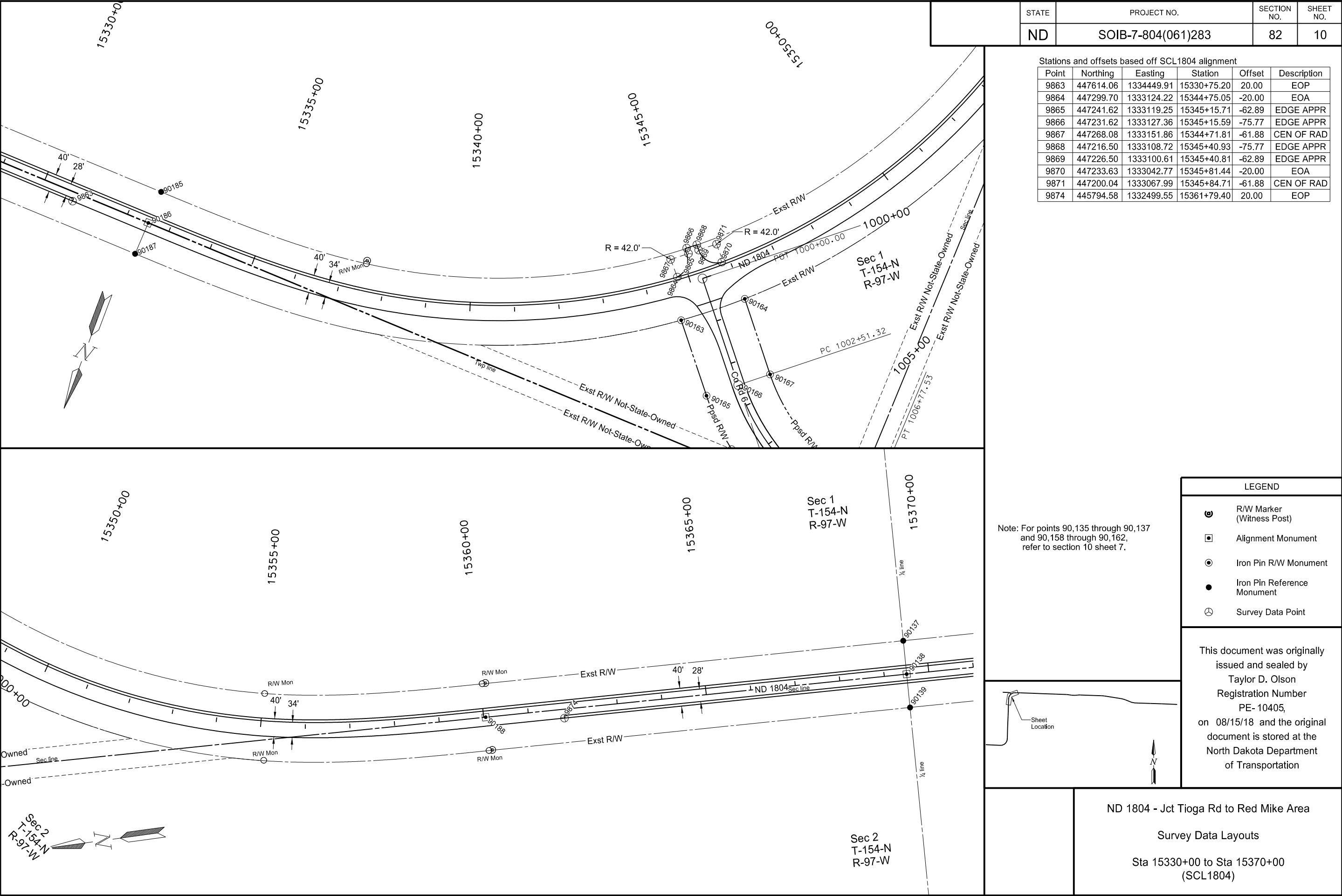
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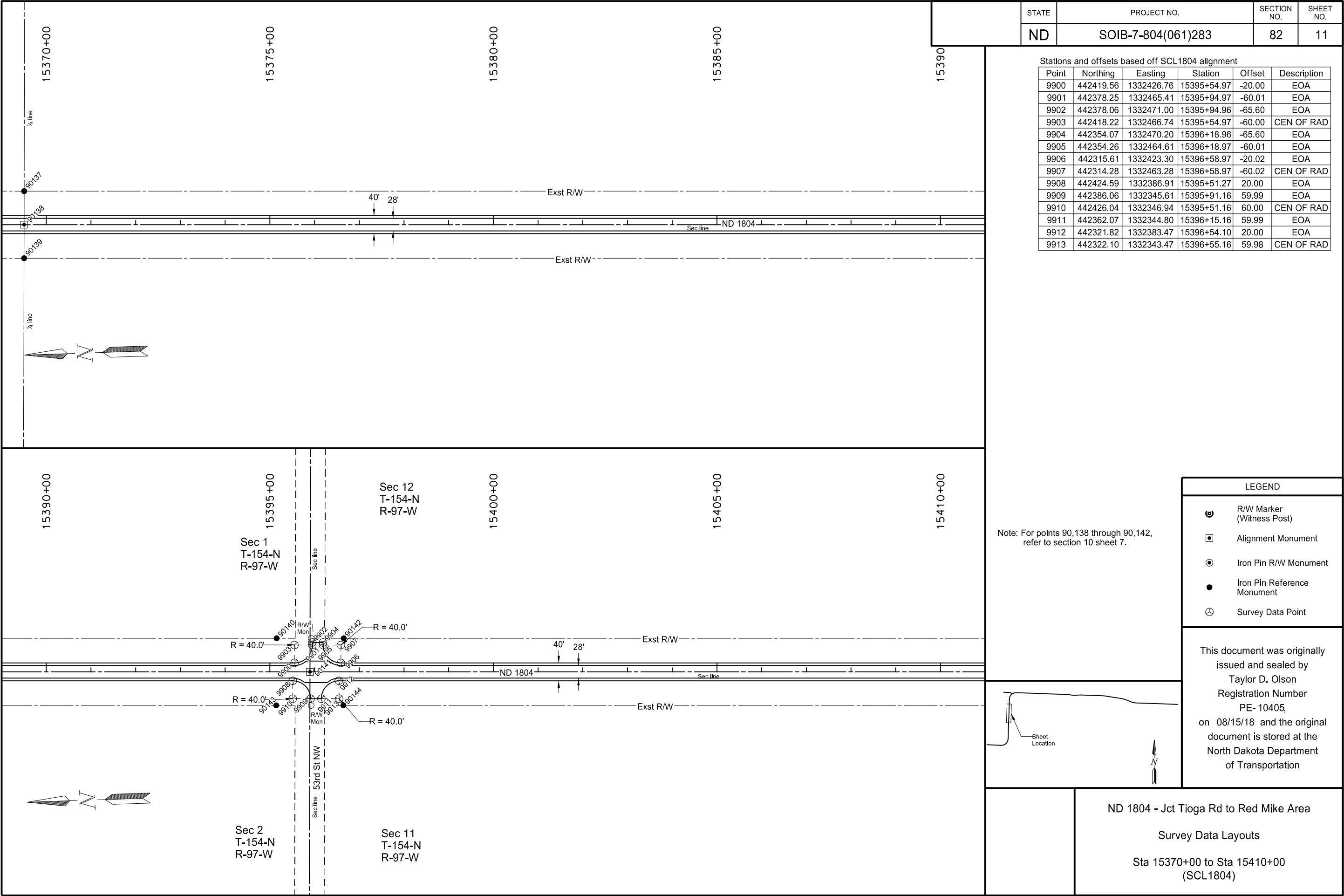
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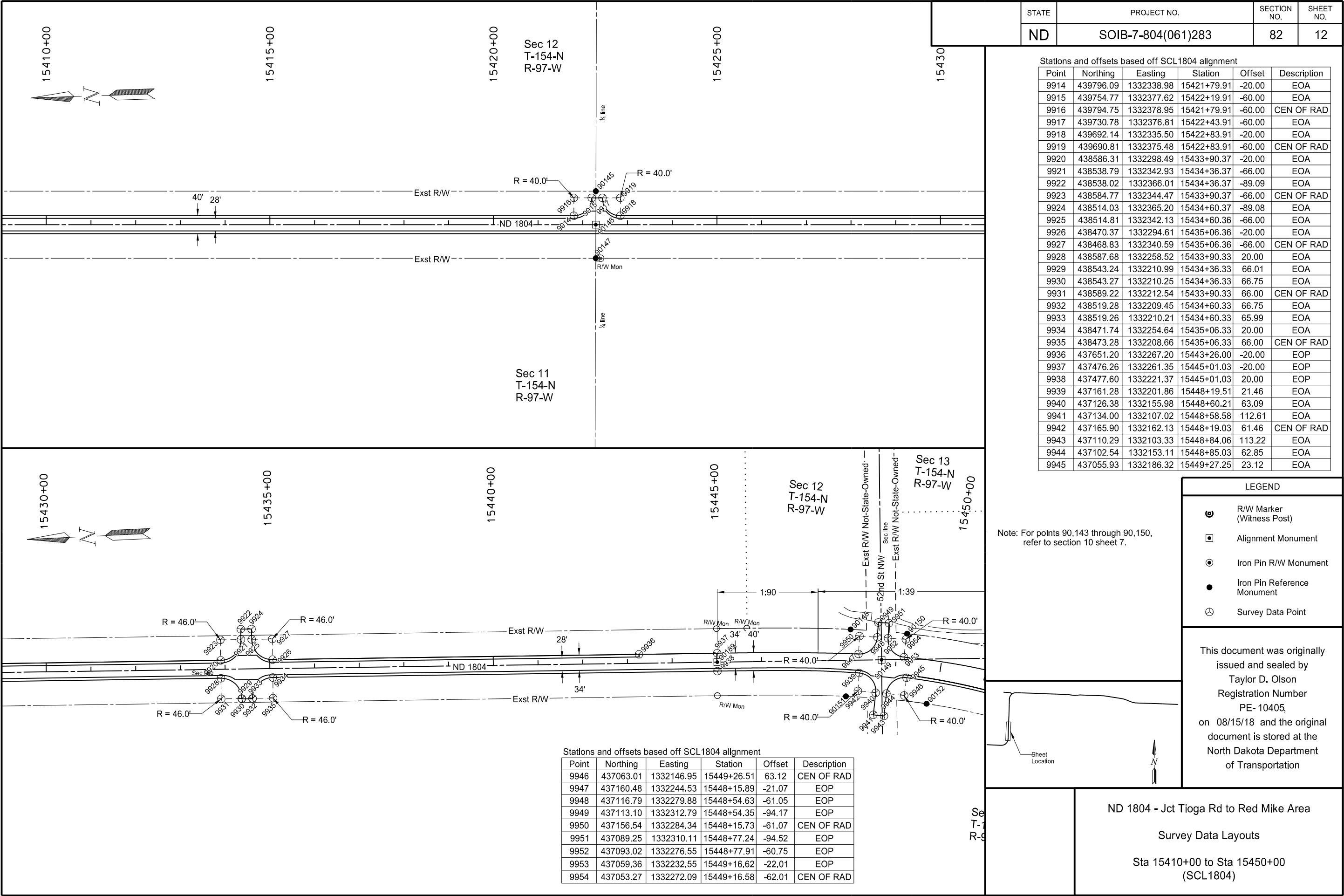




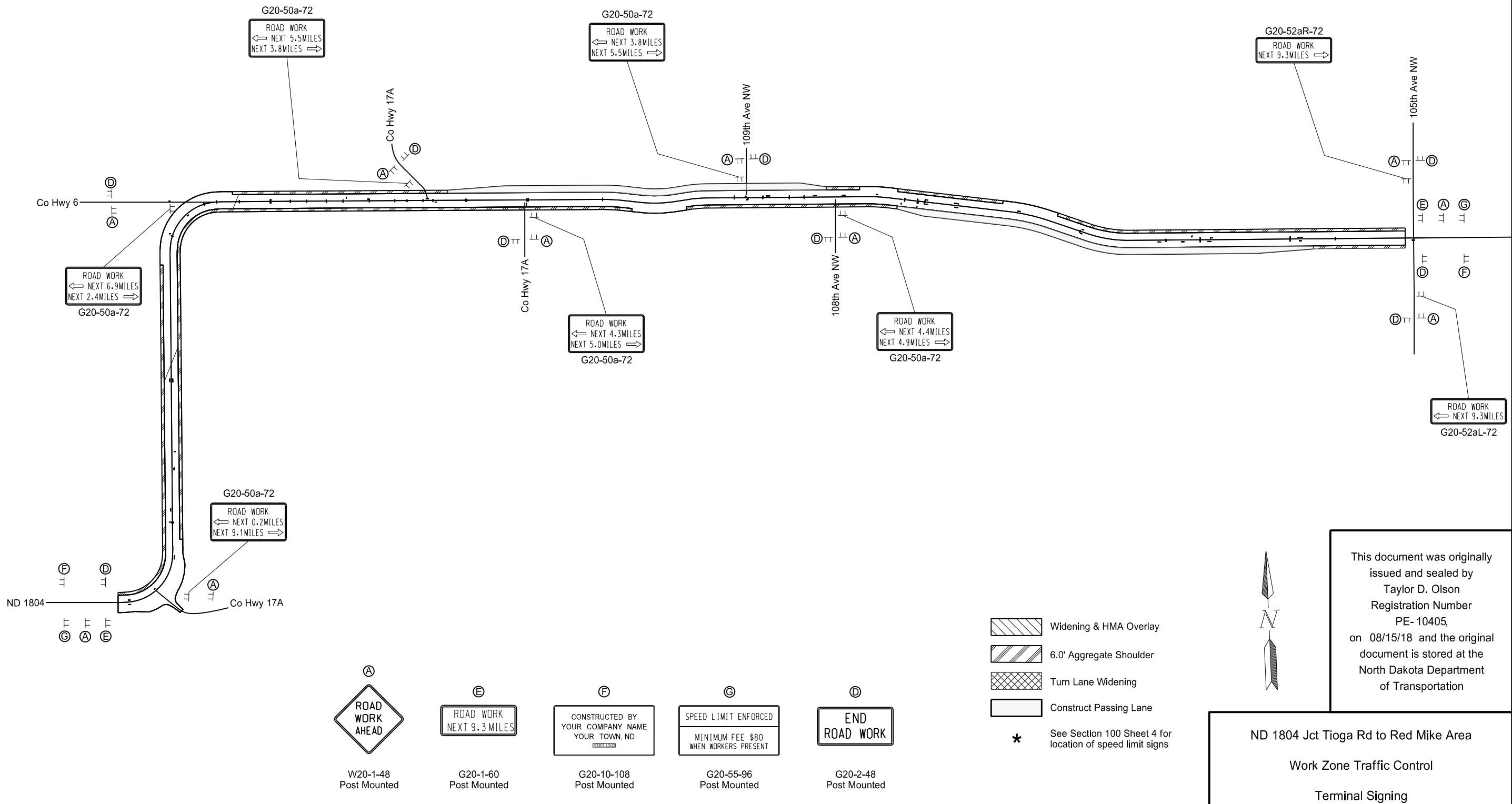


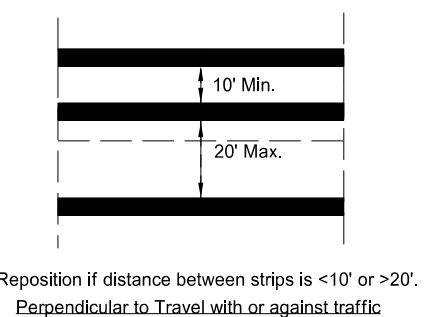
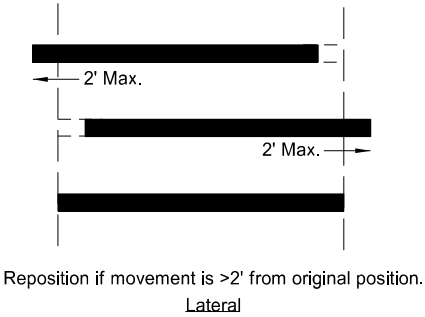
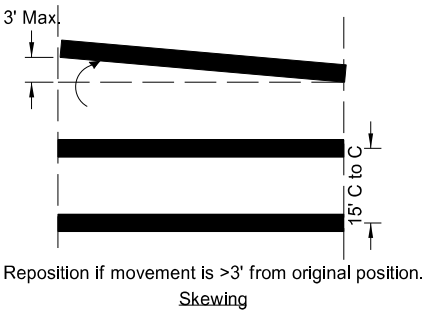






	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SOIB-7-804(061)283	100	2





PORTABLE RUMBLE STRIPS ARRAY
TYPES OF MOVEMENT AND MAXIMUM ALLOWANCES

- Notes:
1. Number of devices were calculated using 40 mph. Speed determined in the field based on location and conditions.
 2. Re-establish the speed limit. Determine the exact speed limit in the field, dependent on location and conditions.
 3. Use sign W20-52-54 when work area is 1 mile or longer.
 4. Rumble strips are not used on a non paved surface or in a pre-construction speed zone of 25 mph or less.

Road Type	ADVANCE WARNING SIGN SPACING		
	Distance Between Signs Min. (ft)		
	A	B	C
Urban - Low Speed (30 mph or less)	150	150	150
Urban - Low Speed (over 30 to 40 mph)	280	280	280
Urban - High Speed (over 40 mph to 50 mph)	360	360	360
Rural - High Speed (over 50 mph to 65 mph)	720	720	720

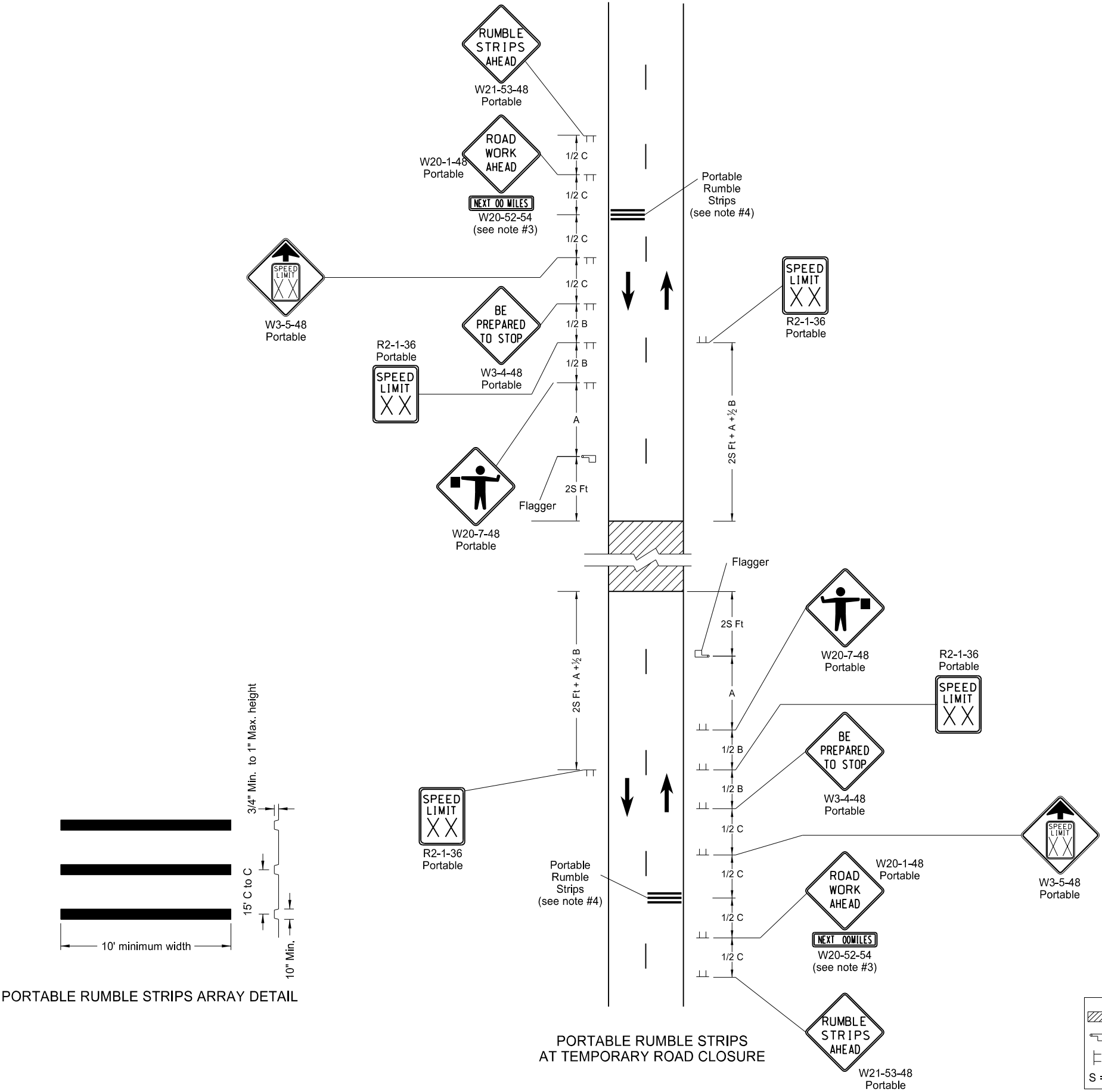
KEY

- Work area
- Flagger
- Sign
- S = Numerical value of speed limit or 85th percentile.

Drawing not to scale.

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Registration Number
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of Transportation

ND 1804 Jct Tioga Rd to Red Mike Area
Work Zone Traffic Control
Portable Rumble Strips at Temporary Road Closure

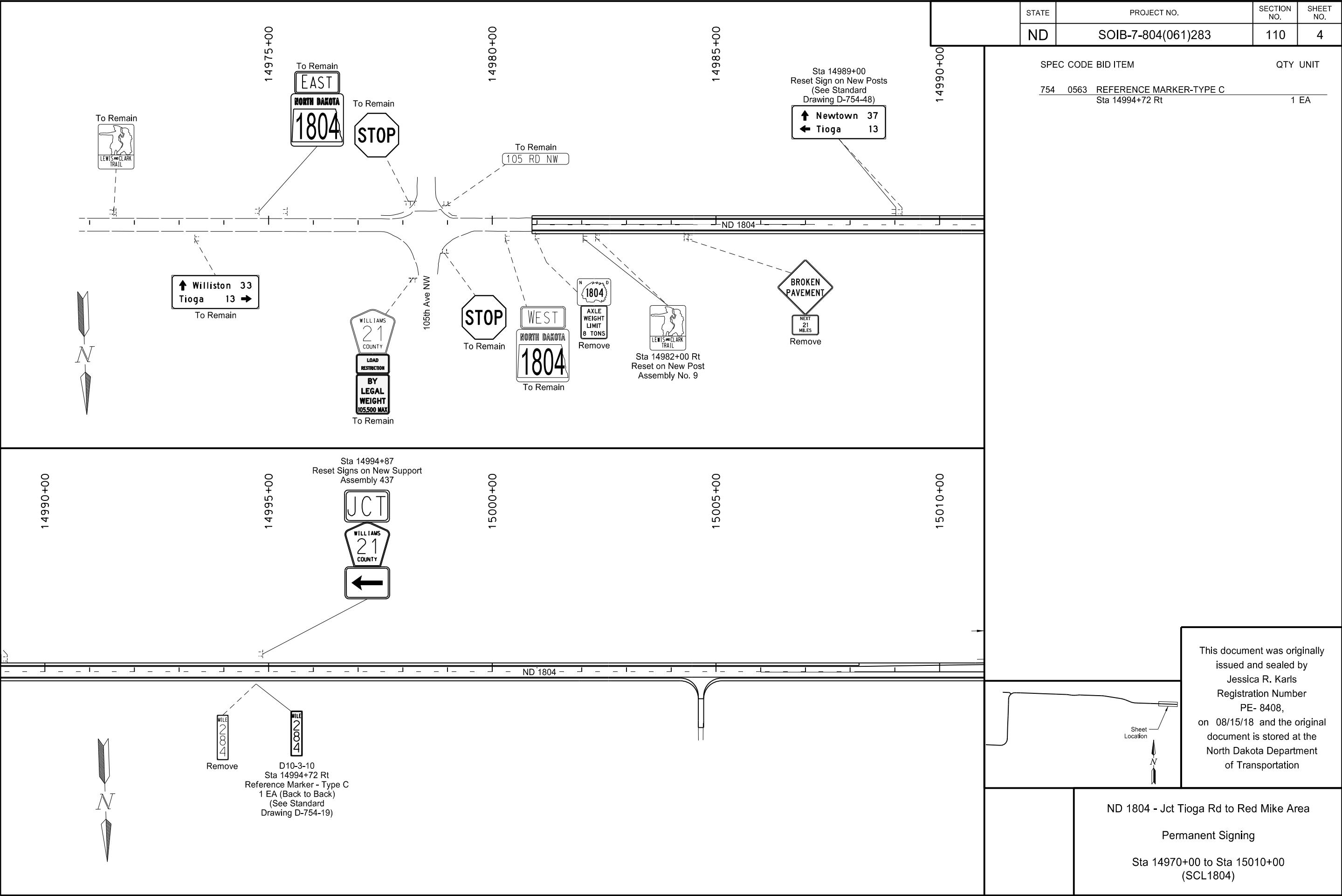


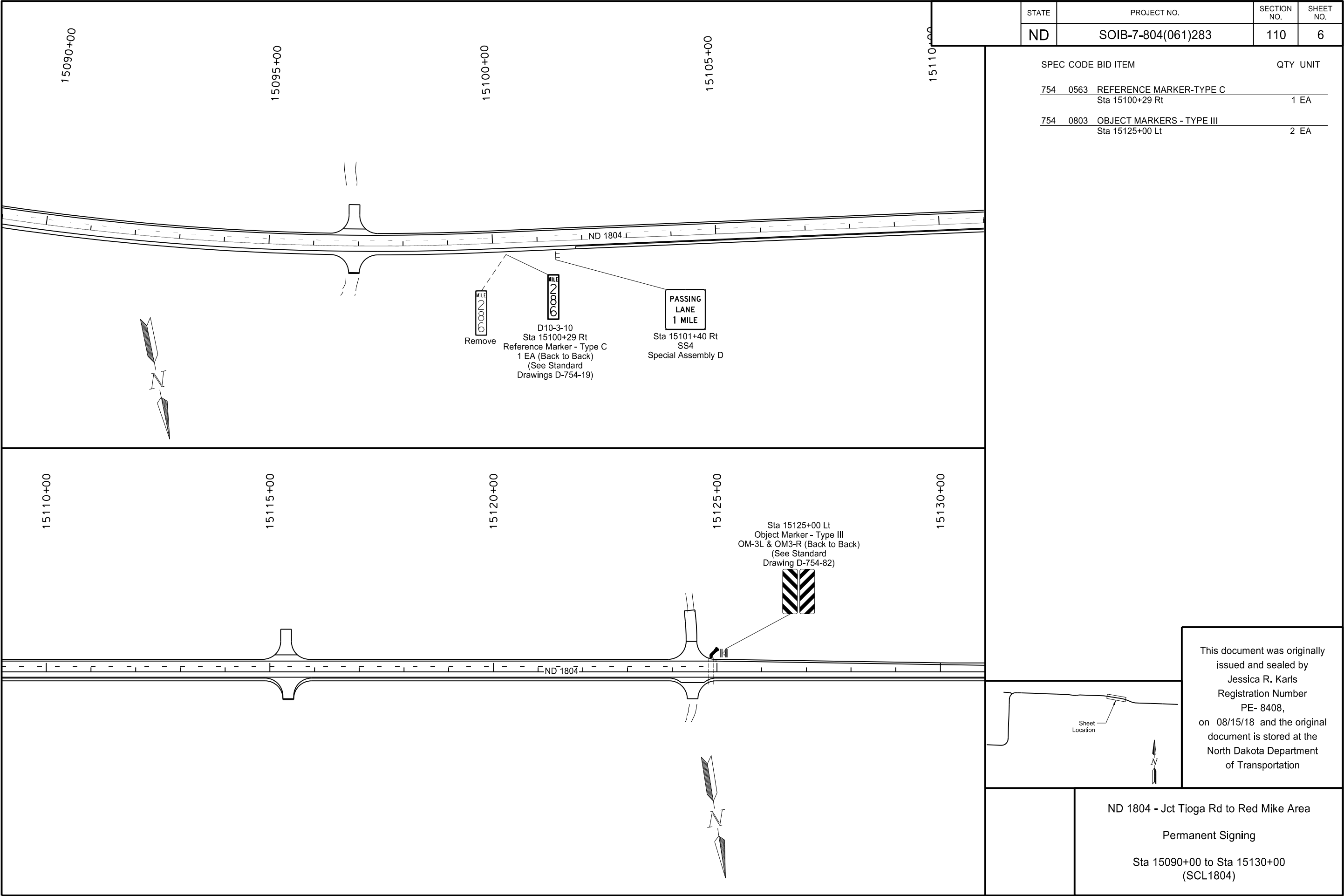
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																						N.D.		SOIB-7-804(061)283		110		1	
Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs		Sign Support Length				Vert Clear- ance FT	Support Size	Max Post Len LF	Sleeve Length				Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments						
			IV SF	XI SF	1st LF	2nd LF	3rd LF	4th LF				1st LF	2nd LF	3rd LF	4th LF														
ND 1804																													
14982+00 Rt	L&C Trail	9			12.0				5.0	2.25 x 2.25 12 ga	15.0						1	4	2.5 x 2.5 12 ga	1									
14989+00 Lt					11.4	12.4			5.0	2.25 x 2.25 12 ga	13.8	3.1	4.1		2 x 2 12 ga	2	8	3 x 3 7 ga	1			2							
14994+87 Lt	M2-1	437			13.6				5.0	2.5 x 2.5 10 ga	15.2					1	4	3 x 3 7 ga	1			1							
15011+00 Rt	SS1			14.0	12.4				5.0	2.5 x 2.5 10 ga	14.7	3.4			2.19 x 2.19 10 ga	1	4	3 x 3 7 ga				1							
15028+00 Lt	W4-2	20		9.0	12.9				5.0	2.25 x 2.25 12 ga	14.1	4.2			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15034+00 Lt	W9-1	20		9.0	12.9				5.0	2.25 x 2.25 12 ga	14.1	4.2			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15101+40 Rt	SS4		12.2		12.1				5.0	2.5 x 2.5 12 ga	13.3	4.1			2.25 x 2.25 12 ga	1	4	3 x 3 7 ga				1							
15135+00 Lt	R4-3	9		5.0	12.0				5.0	2.25 x 2.25 12 ga	15.0					1	4	2.5 x 2.5 12 ga											
15151+20 Lt	R1-1	1		5.2	12.1				5.0	2.25 x 2.25 12 ga	13.7					1	4	2.5 x 2.5 12 ga											
15151+84 Lt	SA-1B				10.9				5.0	2.25 x 2.25 12 ga	11.8					1	4	2.5 x 2.5 12 ga	1										
15154+30 Rt	R4-3	9		5.0	12.0				5.0	2.25 x 2.25 12 ga	15.0					1	4	2.5 x 2.5 12 ga											
15173+30 Lt	SA-1B				10.9				5.0	2.25 x 2.25 12 ga	11.8					1	4	2.5 x 2.5 12 ga	1										
15173+30 Rt	R1-1	1		5.2	12.0				5.0	2.25 x 2.25 12 ga	13.7					1	4	2.5 x 2.5 12 ga											
15185+60 Lt	SS4		12.2		12.1				5.0	2.5 x 2.5 12 ga	13.3	4.1			2.25 x 2.25 12 ga	1	4	3 x 3 7 ga				1							
15235+39 Rt		412			14.2				5.0	2.5 x 2.5 12 ga	15.0	4.6			2.25 x 2.25 12 ga	1	4	3 x 3 7 ga	1			1							
15241+00 Rt	W9-1	20		9.0	12.9				5.0	2.25 x 2.25 12 ga	14.1	4.2			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15243+57 Lt	R1-1	1		5.2	12.1				5.0	2.25 x 2.25 12 ga	13.7					1	4	2.5 x 2.5 12 ga											
15244+26 Lt	SA-1B				10.6				5.0	2.25 x 2.25 12 ga	12.9					1	4	2.5 x 2.5 12 ga	1										
15247+00 Rt	W4-2	20		9.0	12.9				5.0	2.25 x 2.25 12 ga	14.1	4.2			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15267+00 Lt	SS1			14.0	12.4				5.0	2.5 x 2.5 10 ga	14.7	3.4			2.19 x 2.19 10 ga	1	4	3 x 3 7 ga				1							
15273+08 Lt	SA-1B				10.1				5.0	2.25 x 2.25 12 ga	12.4					1	4	2.5 x 2.5 12 ga	1										
15273+16 Rt	R1-1	1		5.2	12.1				5.0	2.25 x 2.25 12 ga	13.7					1	4	2.5 x 2.5 12 ga											
15327+25 Rt	W1-10L	20		9.0	13.0				5.0	2.25 x 2.25 12 ga	14.1	4.2			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15332+27 Rt	W1-8	10		7.5	9.8				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15334+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15336+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15337+27 Rt	M1-6		6.8		15.3				7.0	2.25 x 2.25 12 ga	19.9	3.0			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15338+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15340+00 Lt	M1-5	372	7.0		12.6				5.0	2.5 x 2.5 12 ga	14.1					1	4	3 x 3 7 ga											
15340+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15341+27 Rt	SS3		1.0		12.4	13.1	13.7		7.0	2.5 x 2.5 12 ga	15.1					3	12	3 x 3 7 ga	1			3							
15342+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15344+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15344+75 Lt	M1-5	400	7.2		12.9				5.0	2.5 x 2.5 12 ga	13.9					1	4	3 x 3 7 ga											
15345+68 Lt	SS5		9.0	8.0	12.1				5.0	2.5 x 2.5 10 ga	14.2					1	4	3 x 3 7 ga				1							
15346+27 Rt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15348+27 Rt	W1-8			15.0	9.8				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15349+27 Rt	M1-5	372	7.0		13.9				7.0	2.25 x 2.25 12 ga	18.6	2.5			2 x 2 12 ga	1	4	3 x 3 7 ga				1							
15350+00 Lt	SS2		1.0		10.7	11.9			5.0	2.5 x 2.5 10 ga	12.3					2	8	3 x 3 7 ga	1			2							
15350+27 Rt	W1-8			15.0	9.8				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15352+27 Rt	W1-8			15.0	9.8				4.0	2.25 x 2.25 12 ga	10.6					1	4	2.5 x 2.5 12 ga											
15353+00 Lt	M1-6		6.8		14.1				5.0	2.5 x 2.5 12 ga	15.3					1	4	3 x 3 7 ga											
																				This document was originally issued and sealed by Jessica R. Karls, Registration Number 8408, on 8/15/2018 and is stored at the North Dakota Department of Transportation.				Sign Summary Perforated Tube ND 1804 - Jct Tioga Rd to Red Mike Area					
8/15/2018 12:41:08PM Page 1 of 3																													

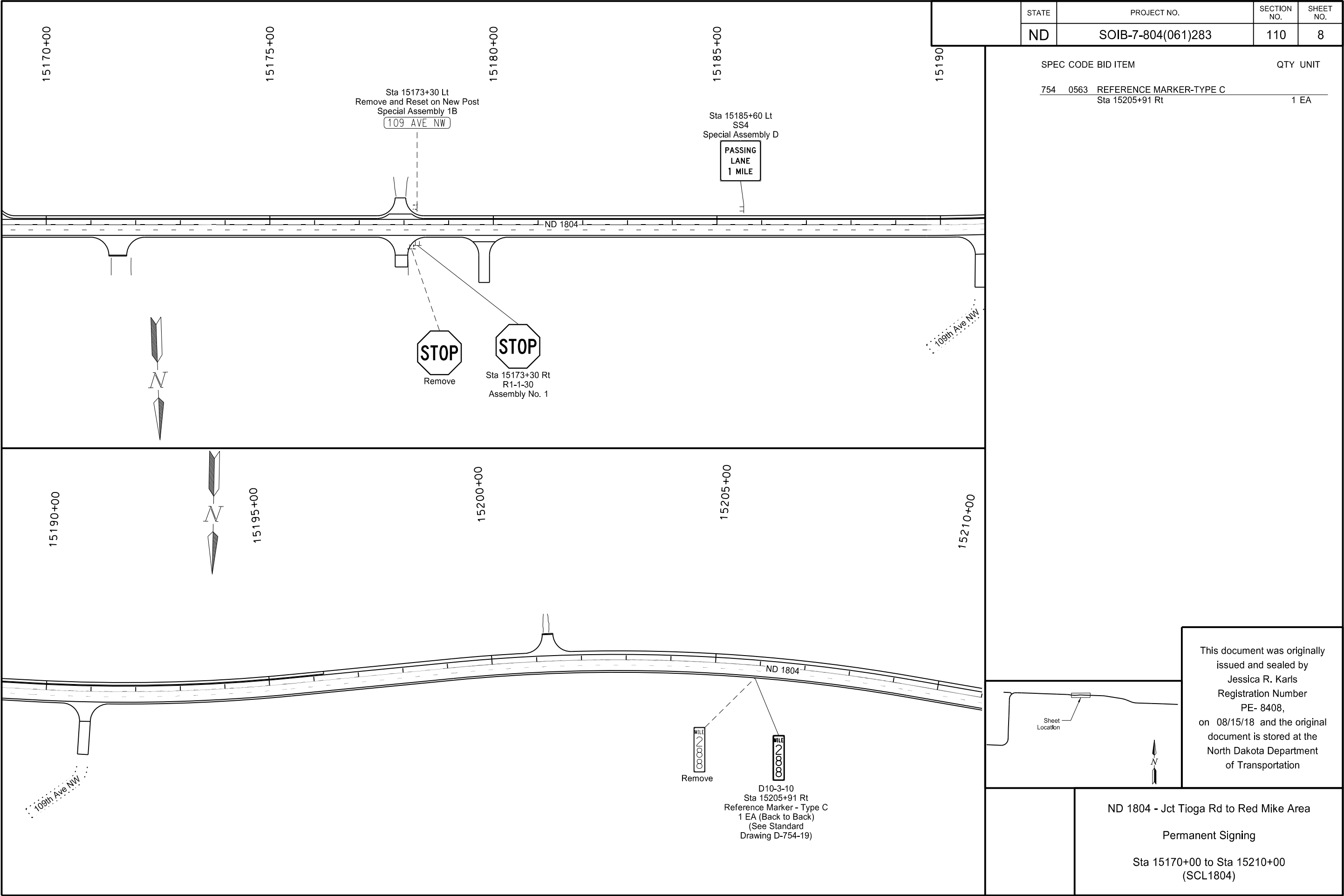
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Station / RP			IV SF	XI SF	1st LF	2nd LF	3rd LF	4th LF	FT	Size	LF	1st LF	2nd LF	3rd LF	4th LF	Size	EA	LF	Size	EA	EA	EA				
15354+27 Rt	W1-8			15.0	9.8				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15356+27 Rt	W1-8			15.0	9.8				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15358+27 Rt	W1-8			15.0	9.8				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15360+27 Rt	W1-8	10		7.5	9.8				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15365+04 Lt	W1-10R	20		9.0	13.0				5.0	2.25 x 2.25 12 ga	14.1	4.2				2 x 2 12 ga	1	4	3 x 3 7 ga			1				
15440+80 Rt	W1-10R	20		9.0	13.0				5.0	2.25 x 2.25 12 ga	14.1	4.2				2 x 2 12 ga	1	4	3 x 3 7 ga			1				
15445+00 Lt	W1-8	10		7.5	9.8				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15447+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15449+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15449+50 Rt	M1-6		6.8		14.1				5.0	2.5 x 2.5 12 ga	15.3						1	4	3 x 3 7 ga							
15451+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15453+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15455+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15456+00 Lt	M1-5	372	7.0		13.9				7.0	2.25 x 2.25 12 ga	18.6	2.5				2 x 2 12 ga	1	4	3 x 3 7 ga			1				
15457+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15459+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15459+32 Rt	M1-5	400	7.2		12.9				5.0	2.5 x 2.5 12 ga	13.9						1	4	3 x 3 7 ga							
15459+50 Lt	R1-1	2		7.5	11.9				5.0	2.5 x 2.5 12 ga	12.1						1	4	3 x 3 7 ga							
15460+26 Rt	W1-7	34		8.0	11.3				5.0	2.5 x 2.5 10 ga	13.6						1	4	3 x 3 7 ga			1				
15460+34 Rt	SA-1B								5.0											1						
15461+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15463+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15463+00 Rt	M1-5	372	7.0		12.6				5.0	2.5 x 2.5 12 ga	14.1						1	4	3 x 3 7 ga							
15465+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15467+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15468+00 Lt		412			14.0				5.0	2.25 x 2.25 12 ga	14.4	4.6				2 x 2 12 ga	1	4	3 x 3 7 ga	1		1				
15469+15 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15470+00 Lt	M1-6		6.8		14.2				7.0	2.5 x 2.5 12 ga	17.6						1	4	3 x 3 7 ga							
15471+00 Lt	W1-8			15.0	9.7				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15472+65 Lt	W1-8	10		7.5	9.8				4.0	2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
15477+00 Lt	W1-10L	20		9.0	13.0				5.0	2.25 x 2.25 12 ga	14.1	4.2				2 x 2 12 ga	1	4	3 x 3 7 ga			1				
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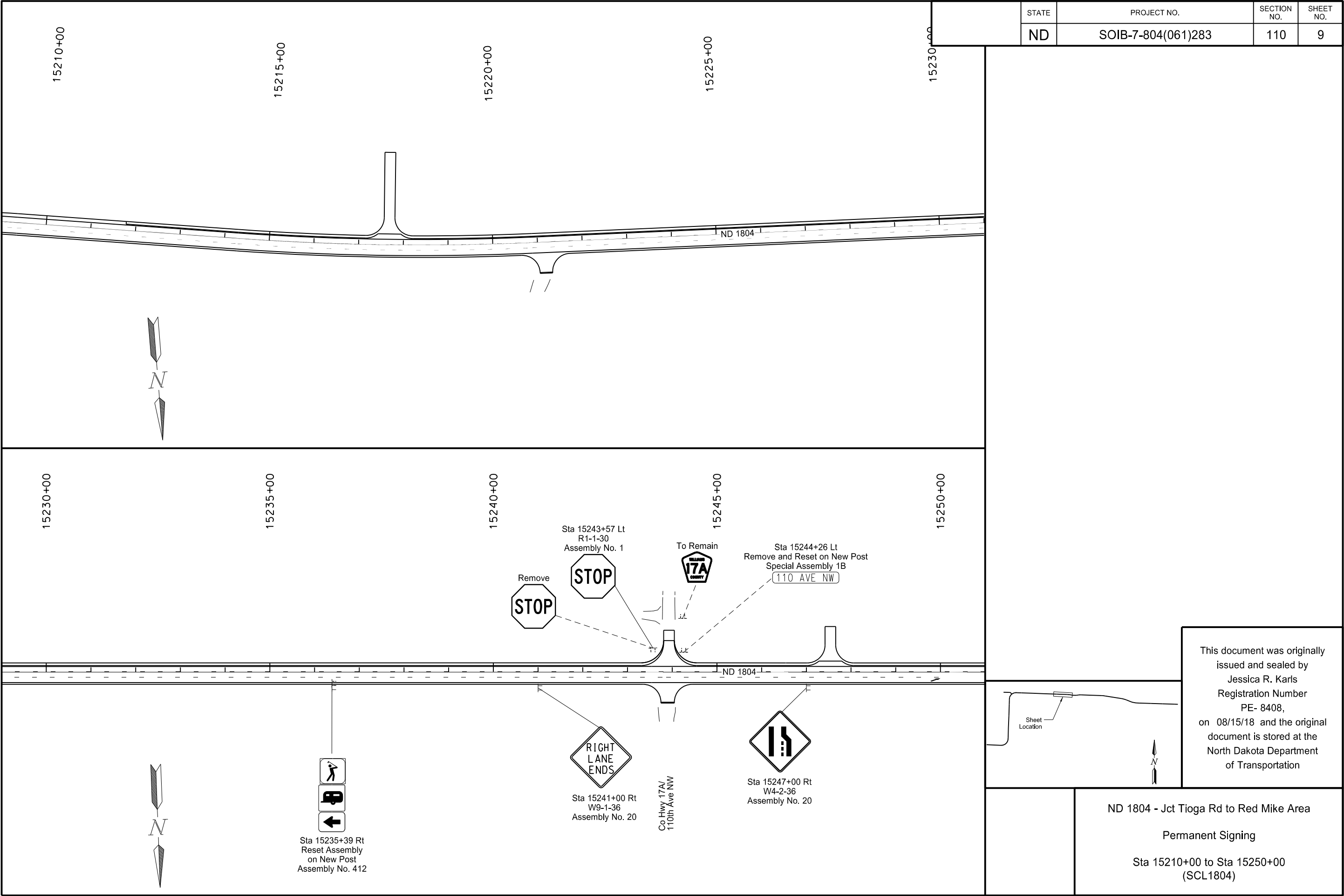
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Page 2 of 3

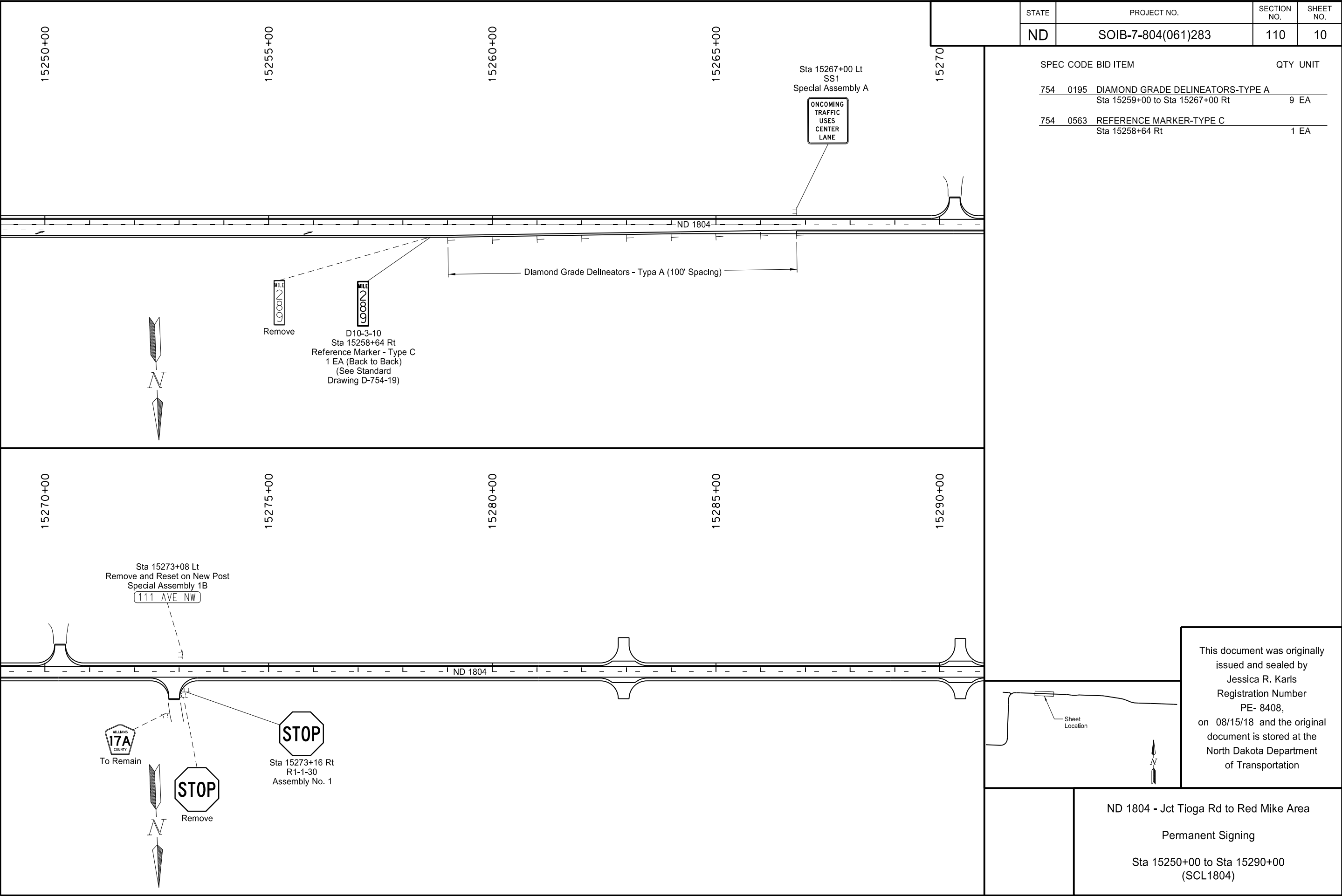
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Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs		Sign Support Length				Vert Clear- ance FT	Support Size	Max Post Len LF	Sleeve Length				Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments		
			IV SF	XI SF	1st LF	2nd LF	3rd LF	4th LF				1st LF	2nd LF	3rd LF	4th LF										
County Road 6 / 54th Street NW																									
1000+43 Rt	R1-1	2		7.5	11.9				5.0	2.5 x 2.5 12 ga	12.1						1	4	3 x 3 7 ga						
1002+24 Rt	W1-8	8		3.0	9.6				5.0	2 x 2 12 ga	14.6						1	4	2.25 x 2.25 12 ga						
1003+44 Rt	W1-8			6.0	9.6				5.0	2 x 2 12 ga	14.6						1	4	2.25 x 2.25 12 ga						
1004+64 Rt	W1-8			6.0	9.6				5.0	2 x 2 12 ga	14.6						1	4	2.25 x 2.25 12 ga						
1005+84 Rt	W1-8			6.0	9.6				5.0	2 x 2 12 ga	14.6						1	4	2.25 x 2.25 12 ga						
1007+00 Lt	M1-5	392	7.2		12.8				5.0	2.5 x 2.5 12 ga	13.9						1	4	3 x 3 7 ga						
1007+04 Rt	W1-8	8		3.0	9.6				5.0	2 x 2 12 ga	14.6						1	4	2.25 x 2.25 12 ga						
1009+00 Lt	W3-1	19		6.3	12.7				5.0	2.5 x 2.5 12 ga	14.5						1	4	3 x 3 7 ga						
1011+00 Lt	W1-2R	53		8.5	13.7				5.0	2.5 x 2.5 10 ga	14.7						1	4	3 x 3 7 ga		1				
1011+00 Rt	M3-1	372	7.0		12.6				5.0	2.5 x 2.5 12 ga	14.1						1	4	3 x 3 7 ga						
Sub Total			14.2	46.3		Total	111.7										Total	40		0	0	1			
County Road 17A / 52nd Street NW																									
2+00 Rt	M3-2	372	7.0		12.6				5.0	2.5 x 2.5 12 ga	14.1						1	4	3 x 3 7 ga						
4+00 Rt					11.7				5.0	2.5 x 2.5 10 ga	14.1						1	4	3 x 3 7 ga	1		1			
Sub Total			7.0	0.0		Total	24.3										Total	8		1	0	1			
Grand Total			126.2	620.6		Total	1,006.6										Total	352	0	13	0	29			

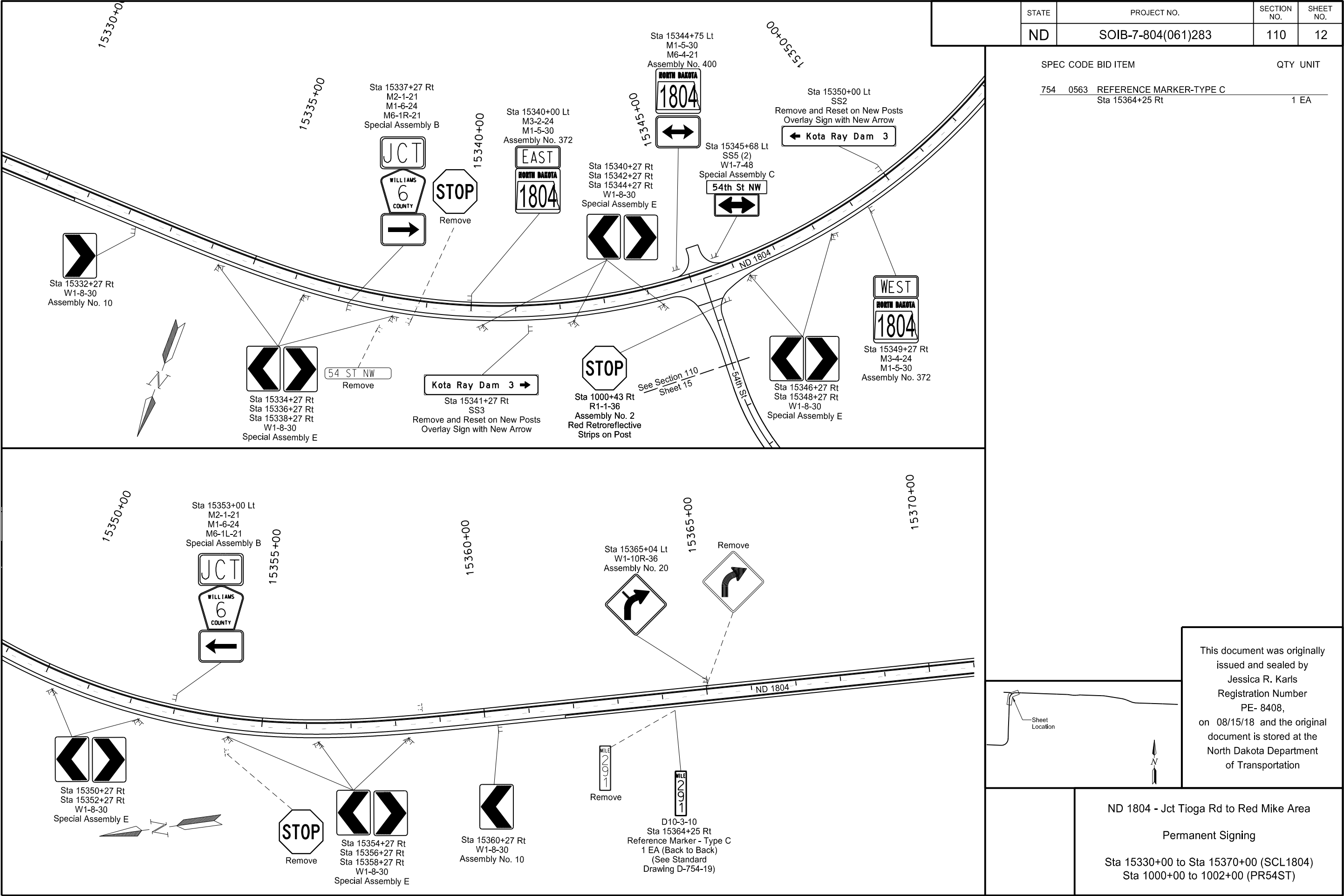




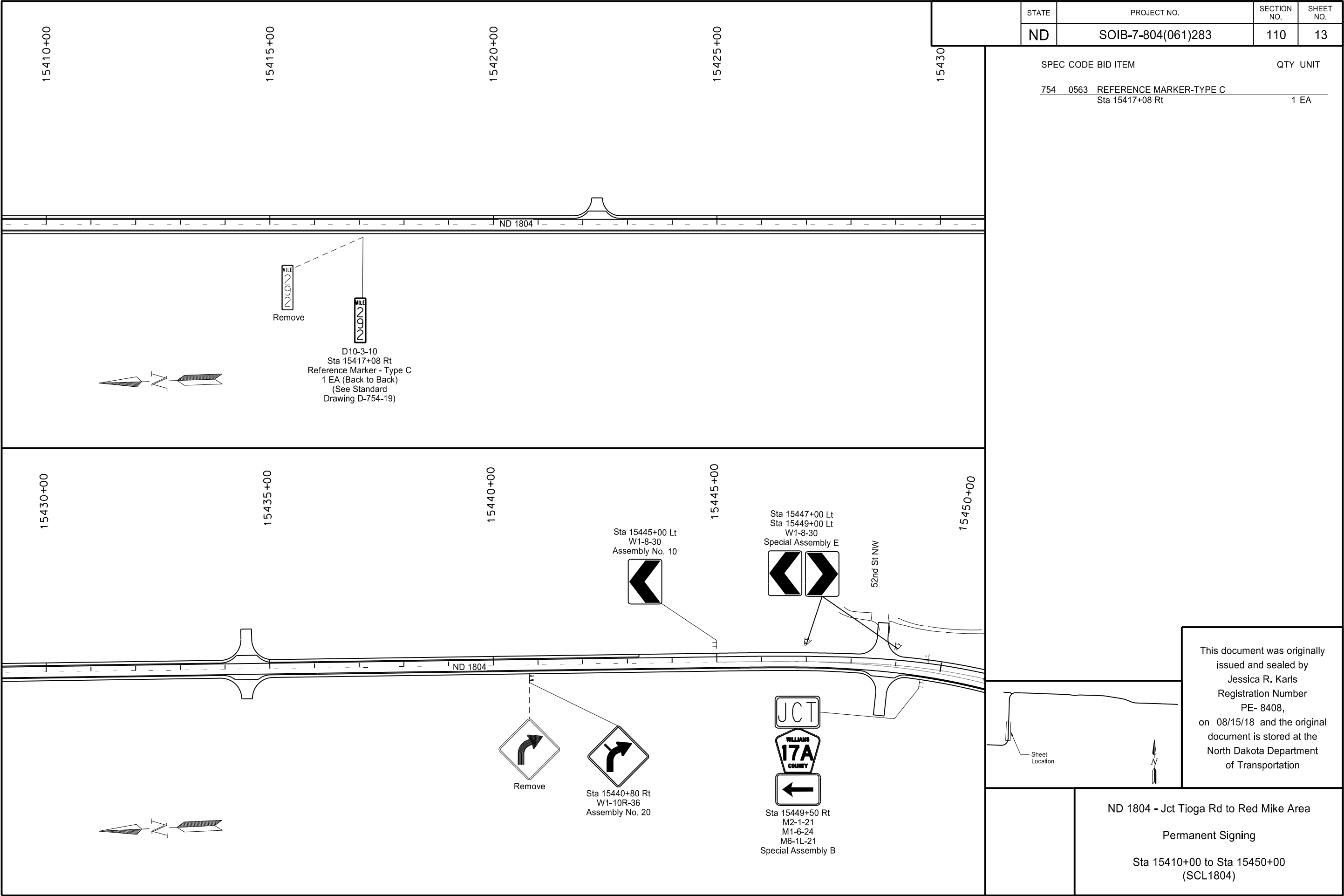


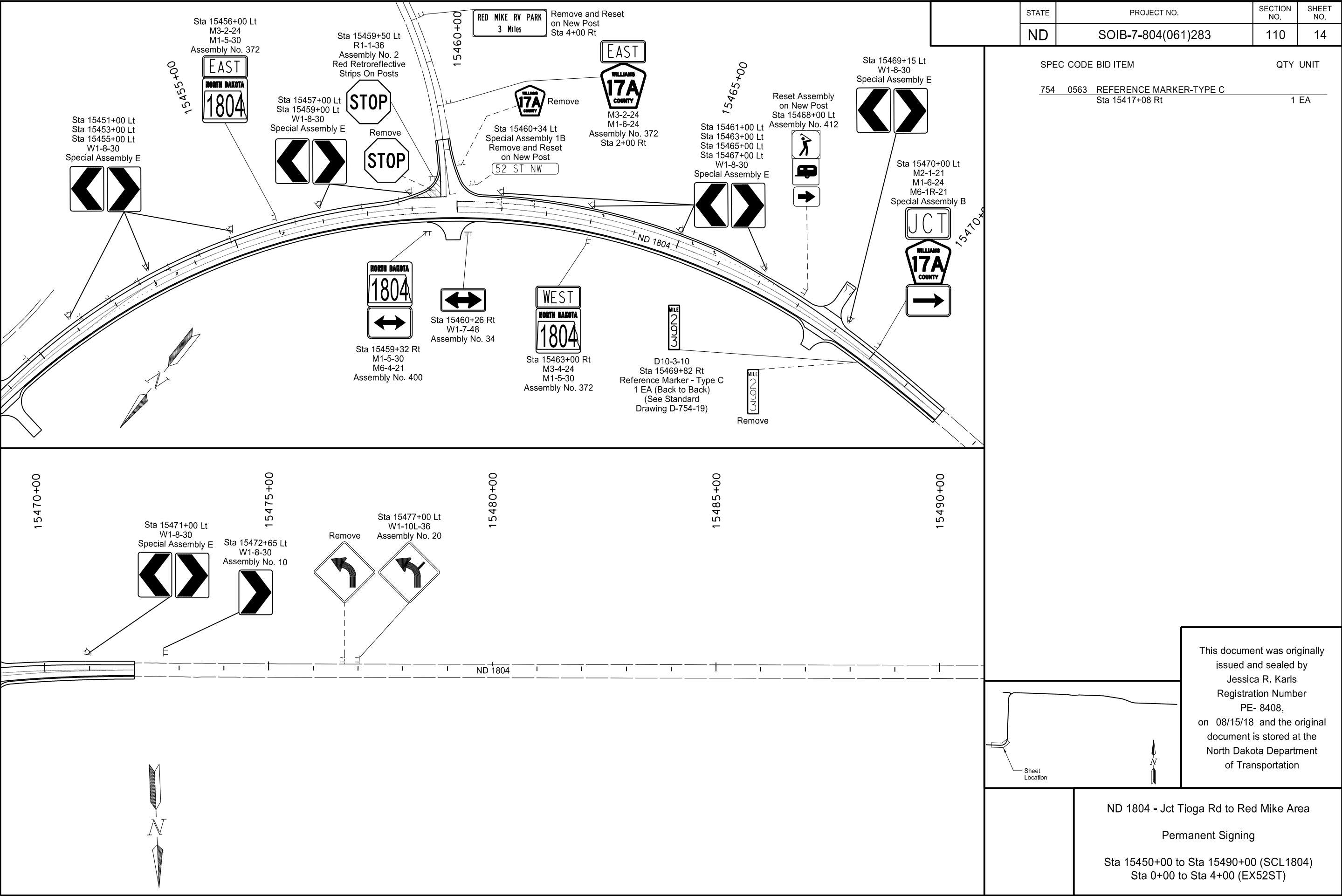






STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SOIB-7-804(061)283	110	12
SPEC CODE BID ITEM			QTY UNIT
754 0563 REFERENCE MARKER-TYPE C			1 EA
Sta 15364+25 Rt			
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ND 1804 - Jct Tioga Rd to Red Mike Area			
Permanent Signing			
Sta 15330+00 to Sta 15370+00 (SCL1804)			
Sta 1000+00 to 1002+00 (PR54ST)			





Sta 15451+00 Lt
Sta 15453+00 Lt
Sta 15455+00 Lt
W1-8-30
Special Assembly E

←

→

Sta 15456+00 Lt
M3-2-24
M1-5-30
Assembly No. 372

EAST

NORTH DAKOTA

1804

Sta 15457+00 Lt
Sta 15459+00 Lt
W1-8-30
Special Assembly E

←

→

Sta 15459+50 Lt
R1-1-36
Assembly No. 2
Red Retroreflective Strips On Posts

STOP

Remove

STOP

Sta 15460+00

RED MIKE RV PARK
3 Miles

Remove and Reset on New Post
Sta 4+00 Rt

EAST

WILLIAMS COUNTY

17A

M3-2-24
M1-6-24
Assembly No. 372
Sta 2+00 Rt

Remove

Sta 15460+34 Lt
Special Assembly 1B
Remove and Reset on New Post

52 ST NW

Sta 15461+00 Lt
Sta 15463+00 Lt
Sta 15465+00 Lt
Sta 15467+00 Lt
W1-8-30
Special Assembly E

←

→

Reset Assembly on New Post
Sta 15468+00 Lt
Assembly No. 412

→

→

Sta 15469+15 Lt
W1-8-30
Special Assembly E

←

→

Sta 15470+00 Lt
M2-1-21
M1-6-24
M6-1R-21
Special Assembly B

JCT

WILLIAMS COUNTY

17A

→

Sta 15459+32 Rt
M1-5-30
M6-4-21
Assembly No. 400

NORTH DAKOTA

1804

↔

Sta 15460+26 Rt
W1-7-48
Assembly No. 34

↔

Sta 15463+00 Rt
M3-4-24
M1-5-30
Assembly No. 372

WEST

NORTH DAKOTA

1804

D10-3-10
Sta 15469+82 Rt
Reference Marker - Type C
1 EA (Back to Back)
(See Standard Drawing D-754-19)

Remove

15470+00

15475+00

15480+00

15485+00

15490+00

Sta 15471+00 Lt
W1-8-30
Special Assembly E

←

→

Sta 15472+65 Lt
W1-8-30
Assembly No. 10

→

Remove

Sta 15477+00 Lt
W1-10L-36
Assembly No. 20

↙

↙

ND 1804

Sheet Location

ND 1804 - Jct Tioga Rd to Red Mike Area

Permanent Signing

Sta 15450+00 to Sta 15490+00 (SCL1804)

Sta 0+00 to Sta 4+00 (EX52ST)

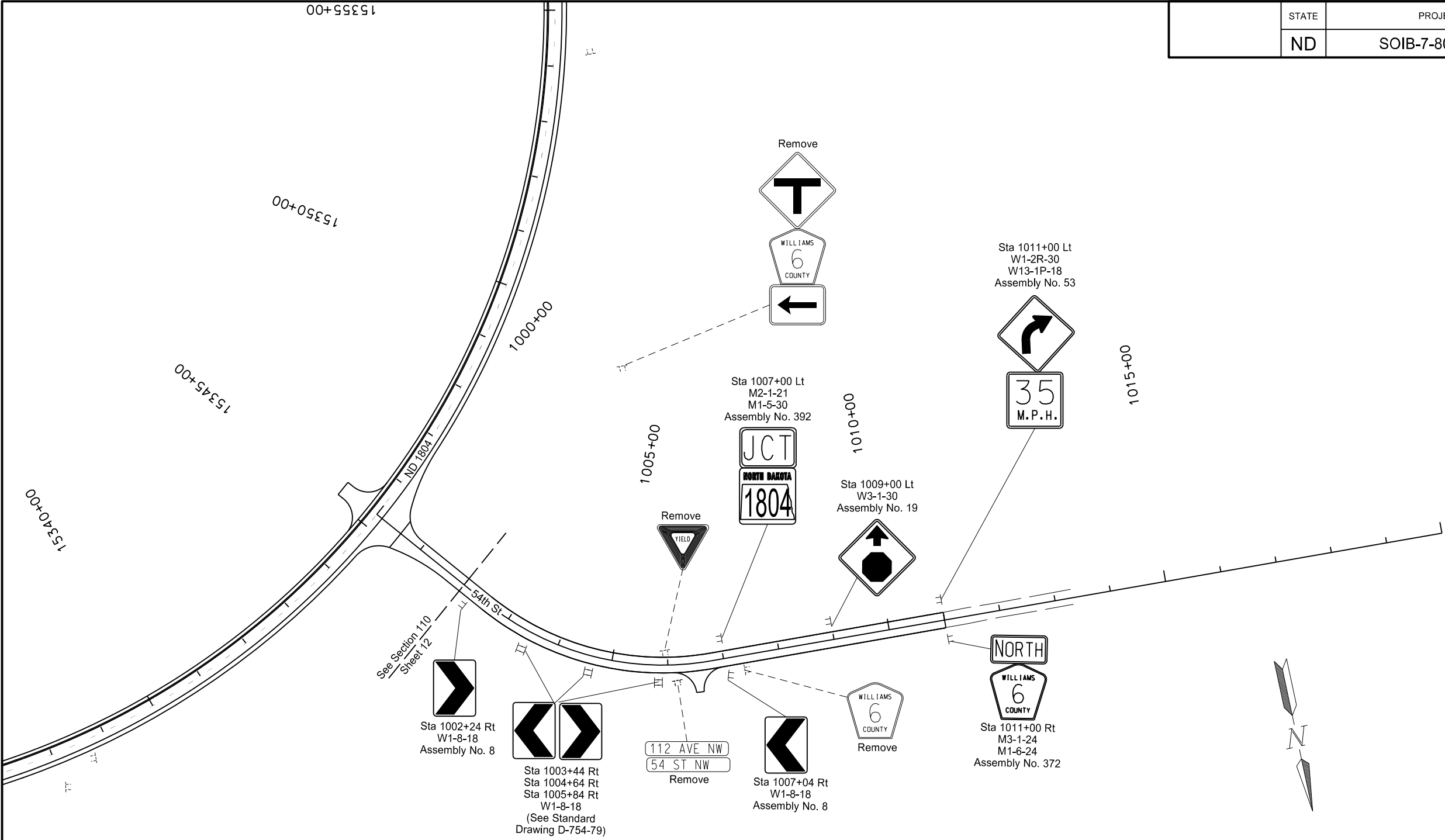
8/15/2018

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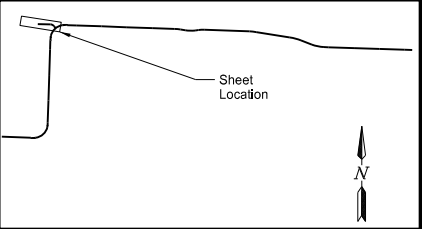
jonathanbach

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SOIB-7-804(061)283	110	15



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ND 1804 - Jct Tioga Rd to Red Mike Area

Permanent Signing

Sta 1002+00 to 1020+00
(PR54ST)

SIGN NUMBER	SS1
WIDTH X HEIGHT	3'-6" x 4'-0"
BORDER WIDTH	0.88" (inset 0")
CORNER RADIUS	2.25"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Non-reflective
	COLOR: Black

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
15011+00 Rt
15267+00 Lt

AREA: 14.0 Sq.Ft.

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_Reg_36_Med.ssf

LETTER POSITION (X)												LENGTH	SIZE	SERIES
O	N	C	O	M	I	N	G					33.2	5	D 2000
4.4	9.1	13.6	18	22.6	27.7	29.7	34.2							
T	R	A	F	F	I	C						25.7	5	D 2000
8.2	12	15.8	20.8	24.7	28.5	30.4								
U	S	E	S									15.5	5	D 2000
13.3	17.5	21.8	25.4											
C	E	N	T	E	R							23.8	5	D 2000
9.1	13.6	17.6	21.7	25.6	29.5									
L	A	N	E									16.1	5	D 2000
13	16.4	21.4	26											

SIGN NUMBER	SS3
WIDTH X HEIGHT	1'-0" x 1'-0"
BORDER WIDTH	
CORNER RADIUS	
MOUNTING	Overlay
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
ND_6IN_TYPE D	86.7	9	6	9	270

STATION(S):
15341+27 Rt

AREA: 1.0 Sq.Ft.

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_Conv_Destination.ssf

Overlay Existing Arrow with 12" x 12" Panel

LETTER POSITION (X)												LENGTH	SIZE	SERIES

SIGN NUMBER	SS2
WIDTH X HEIGHT	1'-0" x 1'-0"
BORDER WIDTH	
CORNER RADIUS	
MOUNTING	Overlay
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT	ANGLE
ND_6IN_TYPE D	6.3	9	6	9	90

STATION(S):
15350+00 Lt

AREA: 1.0 Sq.Ft.

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

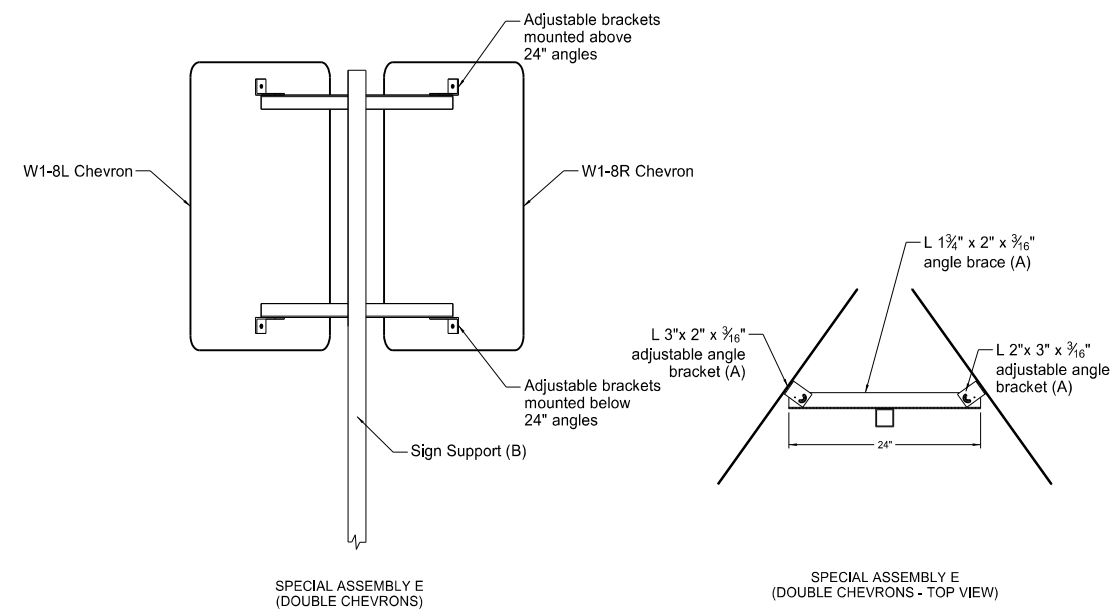
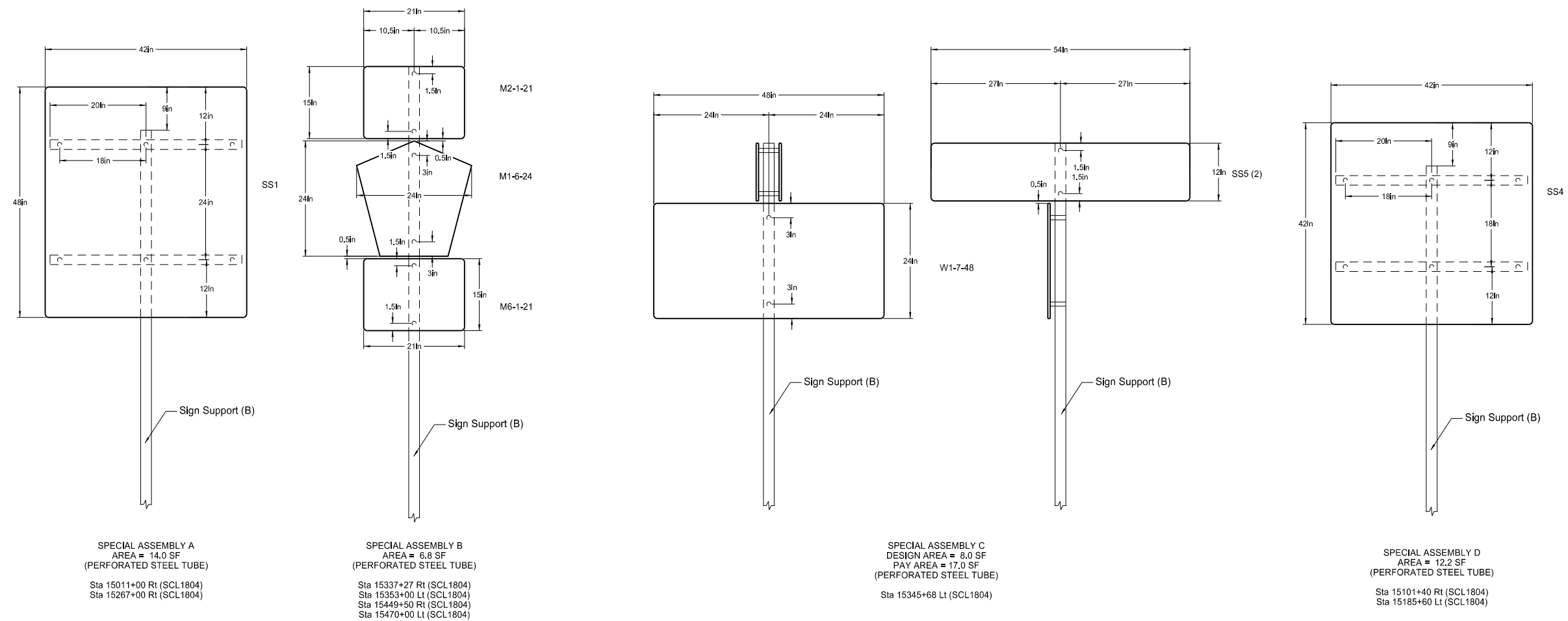
PANEL STYLE: ND_Conv_Destination.ssf

LETTER POSITION (X)												LENGTH	SIZE	SERIES

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ND 1804 - Jct Tioga Rd to Red Mike Area
Permanent Signing
Sign Details

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SOIB-7-804(061)283	110	18

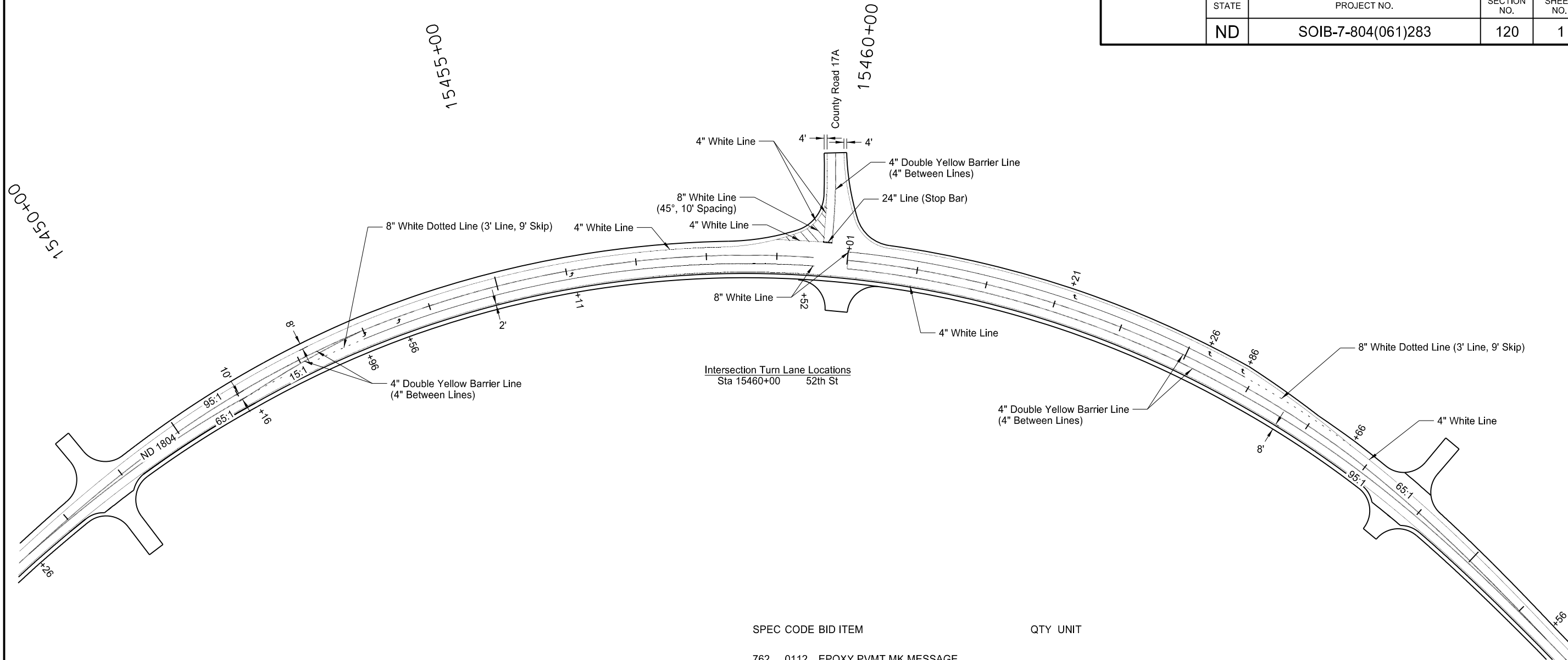


- (A) Use aluminum or steel angles. The Engineer may approve larger sizes for angle braces.
- (B) Refer to Sign Summary Table for Sign Support information.

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ND 1804 - Jct Tioga Rd to Red Mike Area
Permanent Signing
Special Assemblies

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SOIB-7-804(061)283	120	1

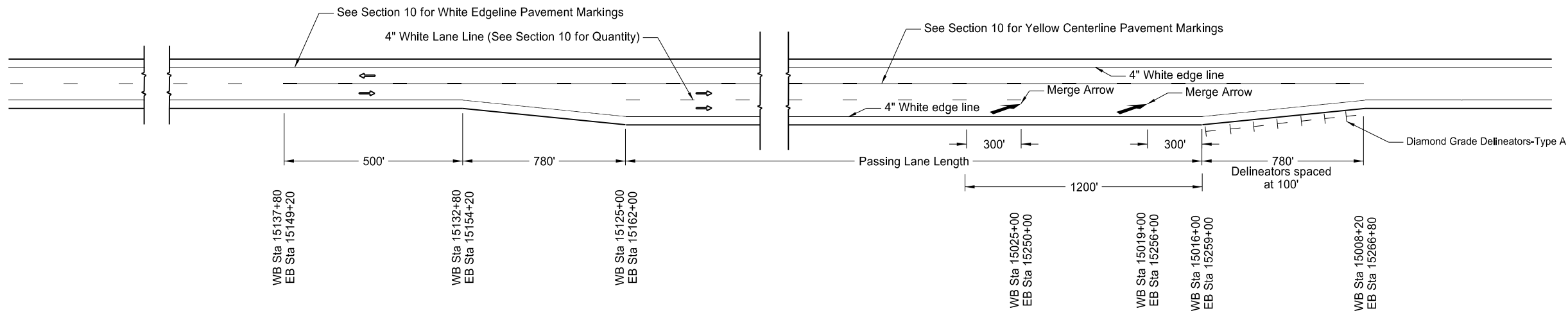


SPEC CODE	BID ITEM	QTY	UNIT
762 0112	EPOXY PVMT MK MESSAGE		
	Left Turn Arrow (3)	48	SF
	Right Turn Arrow (3)	48	SF
762 0113	EPOXY PVMT MK 4IN LINE		
	Yellow		
	Dbl Barrier Line	8,500	LF
	White		
	Edge Line	5,170	LF
762 0115	EPOXY PVMT MK 8IN LINE		
	Hatch Line (White)	112	LF
	Turn Lane Channel Line (White)	1,246	LF
	3' Line, 9' Skip (White)	93	LF
762 0117	EPOXY PVMT MK 24IN LINE		
	Stop Bar (White)	12	LF

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ND 1804 Jct Tioga Rd to Red Mike Area
Pavement Marking
Turn Lane Detail

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SOIB-7-804(061)283	120	2



WB Passing Lane (Sta 15149+20 to Sta 15266+80)				
SPEC CODE	BID ITEM		QTY	UNIT
762 0112	EPOXY PVMT MK MESSAGE			
	Merge Arrow (2)		82	SF

EB Passing Lane (Sta 15008+20 to Sta 15137+80)				
SPEC CODE	BID ITEM		QTY	UNIT
762 0112	EPOXY PVMT MK MESSAGE			
	Merge Arrow (2)		82	SF

Note:
1. Arrows are for reference only unless otherwise stated.

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ND 1804 Jct Tioga Rd to Red Mike Area

Pavement Marking

Passing Lane Detail