

DESIGN DATA				
Traffic	Average Daily			
Current 2024	Pass: 1345	Trucks: 265	Total: 1610	
Forecast 2044	Pass: 1480	Trucks: 345	Total: 1825	
Clear Zone Distance: 12' Urban, 16' Rural		Design Speed: 25		
Minimum Sight Dist. for Stopping: 155		Bridges: N/A		
Sight Dist. for No Passing Zone: 450				
Pavement Design Life N/A (years)				
Design Accumulated One-way N/A ESALs: N/A				

NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

NDS-SS-8-011(053)153
Richland County
From 3rd St SE to Dollar General Store
ND 11 in Lidgerwood
Shared Use Path

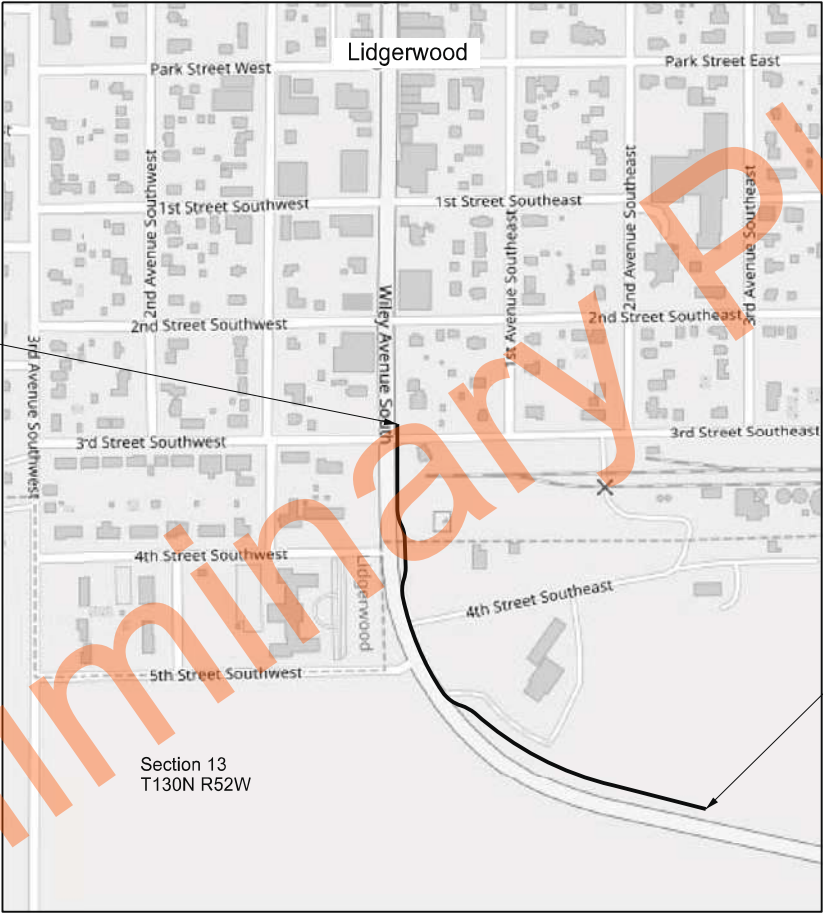
	STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	24564	1	1

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	7/1/2025
Supplemental Specifications	NONE

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
NDS-SS-8-011(053)153 \ Shared Use Path	0.398	0.398

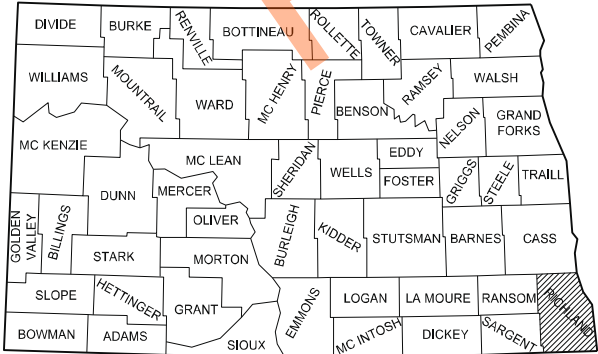


Begin Project
NDS-SS-8-011(053)153
PCN 24564
ND11 MP 153.406
Sta 0+00.00



Section 13
T130N R52W

End Project
NDS-SS-8-011(053)153
PCN 24564
ND11 MP 153.804
Sta 21+00.00



STATE COUNTY MAP

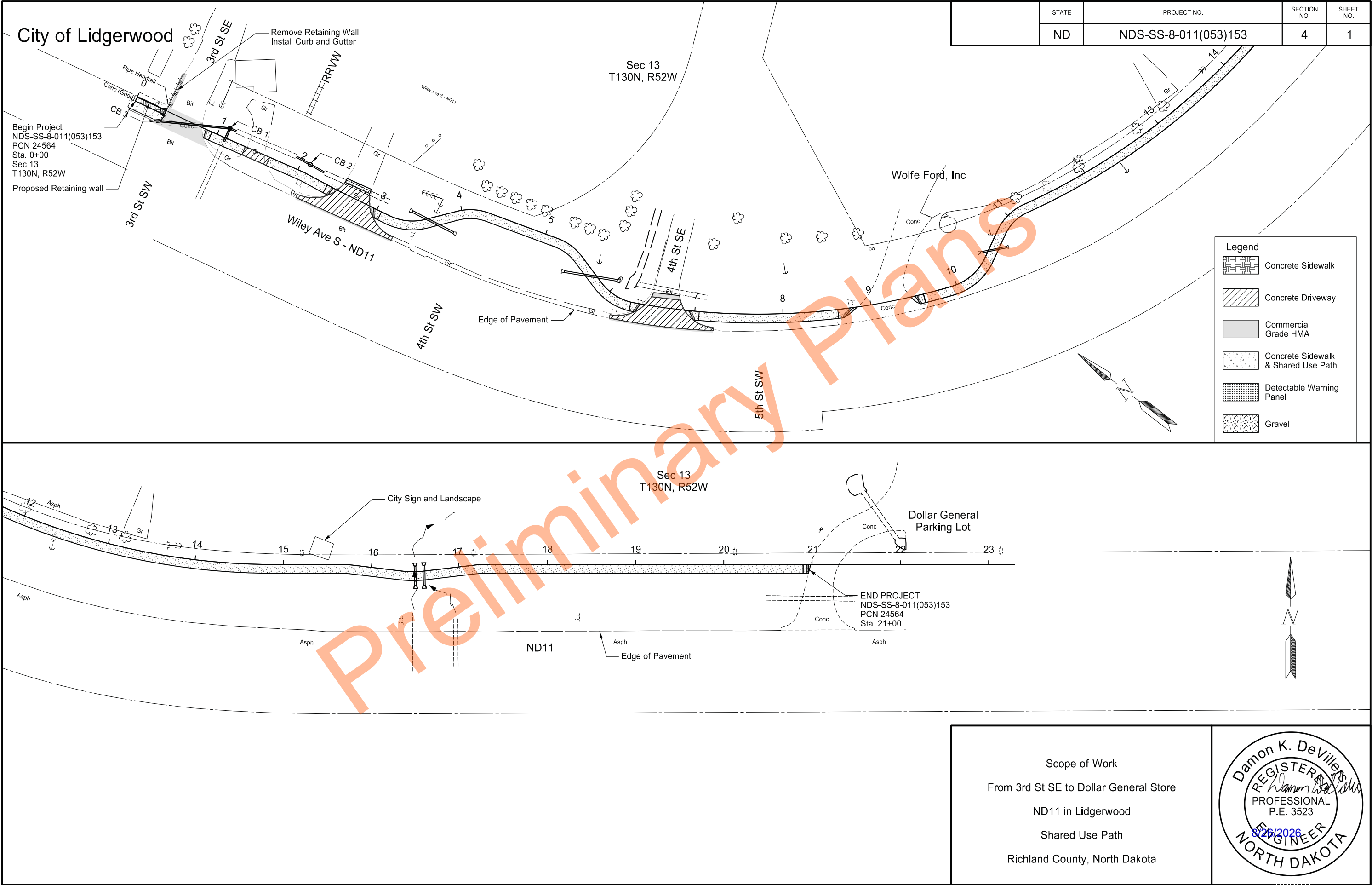
DESIGNER Damon DeVillers
DESIGNER Zach Hatting
DESIGNER Tim Pearson

ND DEPARTMENT OF TRANSPORTATION
OFFICE OF PROJECT DEVELOPMENT

Jonathan Ketterling
08/28/26



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SPECIAL PROVISIONS									
Number	Description								
SP 590(25)	Commercial Grade Asphalt Without Density								
SP 399(25)	Utility Coordination								
SSP 1	Temporary Erosion and Sediment Best Management Practices								
SSP 5	Limitations of Operations								
SSP 8	Federal Prohibition on Certain Technological Hardware								
SSP 11	Domestic Material Procurement Preferences								
SSP 12	Public Liability and Property Damage Insurance								
SSP 13	Federal Drone Restriction								



		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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105-P01	UTILITIES: Utility lines with the label of "Approx Loc" located on the plans were established based upon detailed drawings provided by the entity. The Utilities are protected in place. A Special Provision for Utility Coordination is included in the Proposal for the project.	Re-spread topsoil evenly over the areas to be seeded. The bid item "TOPSOIL" includes all labor, materials, and equipment associated with stripping, hauling, stockpiling and resspreading the existing topsoil. "TOPSOIL" will be paid at plan quantity.			
105-200	UTILITY COORDINATION: A utility coordination meeting is required.				
105-110	PAVEMENT SWEEPING: Sweep paved areas that were used by construction traffic before opening these areas to public traffic. Sweep all newly constructed pavement no more than 24 hours before a scheduled final inspection. Use a vacuum or pick-up type sweeper to perform this work.	203-P04	CONTRACTOR FURNISHED PROCTORS: Determine the optimum moisture and density as specified in "ND T-99", for each type of material encountered that requires compaction control. Use only Method A or D testing procedures as shown in the NDDOT Field Sampling and Testing Manual. Perform a multi-point test using a minimum of 4 points. Submit the results to the Engineer along with a split sample of each material. The Engineer will perform comparison tests using the same procedure on the split sample. The Engineer's results will be used for determining the in-place density of material.		
107-500	PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Utilize a vacuum or pickup type sweeper.				
108-100	WEEKLY PLANNING & REPORTING MEETING: A weekly planning and reporting meeting is required.				
202-P01	REMOVAL OF PAVEMENT: Contractor to remove concrete pavement, concrete sidewalk, side street concrete surfacing, concrete valley gutter, concrete retaining wall, retaining wall railing, and concrete driveways. Existing pavement thicknesses and retaining wall thickness shown on the existing typical sections are based on old plans and historical data. The bid item "REMOVAL OF CONCRETE PAVEMENT" includes all labor, materials, and equipment associated with removing, hauling, disposing of the concrete pavement, retaining wall, railing, valley gutter, driveways and sidewalks.	203-P01	BORROW EXCAVATION: Contractor shall furnish borrow material for the project.		
202-P02	REMOVAL OF PAVEMENT: Contractor to remove bituminous pavement, side street bituminous surfacing, bituminous driveways. Existing pavement thicknesses is shown on the existing typical sections are based on old plans and historical data. The bid item "REMOVAL OF BITUMINOUS SURFACING" includes all labor, materials, and equipment associated with removing, hauling, disposing of the bituminous pavement, and bituminous driveways.	230-P01	SUBGRADE PREPARATION-TYPE A-12IN: Contractor to perform Subgrade Preparation Type A-12in - to a width of 11 feet under the 10' wide concrete shared use path.		
		251-P01	SEEDING CLASS III: Provide the seed mix as follows:		
			Species	Pound Pure Live Seed/Acre	
			Kentucky Bluegrass	50	
			Perennial Rye Grass	20	
			Six-Week Fescue or Dural-hard Fescue	30	
			Annual Rye Grass	50	
				150	
202-P03	REMOVAL OF END SECTIONS-ALL TYPES & SIZES: Contractor to remove the existing corrugated metal end sections (CSP/CMP) and the existing reinforced concrete end sections (RCP). The contractor shall haul the salvaged end sections to the NDDOT Lidgerwood Section Yard located at 304 4 th Ave. NW, Lidgerwood, ND and neatly stockpiled at a location designated by the NDDOT. No payment will be made for additional handling of end sections. The bid item "REMOVAL OF END SECTIONS-ALL TYPES AND SIZES" includes all labor, materials, and equipment associated with removing, salvaging, hauling, and stacking the salvaged CSP/CMP/RCP End Sections.	253-P01	REMOVE AND REPLACE ROCK RIPRAP: Contractor shall remove and replace the existing rock riprap at 4 th Avenue NW. Include all costs for removing, hauling, stockpiling and replacing the rock riprap and furnishing and installing Type RR Fabric under the rock riprap in the unit price bid for "REMOVE AND REPLACE RIPRAP".		
203-010	SHRINKAGE: 35 percent additional volume is included for shrinkage in earth embankment.	704-P01	FLAGGING: Flagging hours are for intersection work.		
203-P01	COMMON EXCAVATION LIMITS: Limits of common excavation are shown on the cross sections. Payment will be made at plan quantity unless changes are made by the Engineer.	704-P02	TRAFFIC CONTROL SIGNS: Provide traffic control signs and delineators to accommodate closure of the street or intersection. Do not close consecutive streets or intersections at the same time. Provide the Engineer with a traffic control phasing plan at the pre-construction meeting.		
203-P02	COMMON EXCAVATION: Include all costs for hauling, placing, compacting common excavation in the unit price bid for "COMMON EXCAVATION-TYPE A". Compact material as specified in Section 203.04 E.2.b, "ND T-99". Manipulate embankment material with disking equipment.	704-P03	STREET CLOSURES: The following street closures shall be permitted: 1. 3 rd Street SE – Closed for a maximum of 3 weeks. 2. Exit Roadway from the elevator – Closed for a maximum of 3 weeks. 3. 4 th Street SE – Closed for a maximum of 3 weeks. The Contractor shall NOT be allowed to have the Exit Roadway from the Elevator and 4 th St SE closed at the same time.		
203-P03	EXCESS TOPSOIL: There will be excess topsoil on the project. The contractor shall haul all excess topsoil to the NDDOT Lidgerwood Section Yard located at 304 4 th Ave. NW, Lidgerwood, ND and neatly stockpiled at a location designated by the NDDOT. No payment will be made for additional handling of topsoil that must be moved.				

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NOTES

- 708-P01

INLET PROTECTION SPECIAL: Keep all devices in place until all pavements are placed or upon approval from the Engineer. Include all costs for installing, cleaning, removing sediment, maintaining, and replacing damaged inlet protection devices in the unit price bid for "INLET PROTECTION-SPECIAL".
- 722-100

INLETS AND MANHOLES: Inlets and manholes were designed with a minimum 6-foot riser height. Fill the bottom of each drainage structure with concrete, up to the lowest invert elevation
- 722-P01

ADJUST GATE VALVE BOX: If an extension is needed; remove the adjustable valve box top, install a midsection piece, and then reinstall the adjustable valve box top to desired grade. Include all costs in unit price for “Adjust Gate Valve Box”.
- 750-P01

SIDEWALK CONCRETE 5IN REINFORCED: Reinforce sidewalk with No. 4 deformed reinforcing bar placed 24 inches on center both ways. Include an 18-inch minimum lap at splice locations. Use plastic chairs to support the bars at mid-depth of the slab and ensure a clearance of 3 inches to all side forms.

Saw a centerline longitudinal joint on concrete sidewalk greater than 8 feet in width. Saw all longitudinal and transverse contraction joints, Saw joints in a timely manner to prevent any uncontrolled random cracking. If random cracking occurs, remove, and replace all damaged panels at the Contractor’s expense.

At replacement areas, excavate material to accommodate the proposed aggregate base and dispose of excess excavation.

Before beginning work submit a reinforcing jointing plan for sidewalk to the Engineer for approval.

Include all costs for labor, equipment, and materials to perform the above referenced work in the contract unit price bid for “SIDEWALK CONCRETE 5IN REINF”.
- 754-P01

SIGN PANEL AND SIGN SUPPORT: The contractor shall remove the existing sign panels and sign supports and stockpile them at the NDDOT Lidgerwood Section Yard. The contractor shall reset the Sign Panel. The contractor shall install new sign supports. The contractor shall neatly stack the salvaged sign supports in the NDDOT Lidgerwood Section Yard at a location approved by the NDDOT.
- 762-050

PAVEMENT MARKING: If the Engineer and Contractor agree, plan quantity will be used as the measurement for payment for pavement marking items.
- 930-P01

RETAINING WALL: The retaining wall block shall be a Keystone Standard Unit 18 or an approved equal. The bid item “RETAINING WALL” includes all labor, materials, and equipment required for fill soil, excavation, foundation preparation, leveling pad, crushed leveling stone, geogrid, fabric, retaining wall block, drainage aggregate, drainpipe, reinforced backfill, and all other work necessary to construct the retaining wall.

ENVIRONMENTAL NOTES

ENVIRONMENTAL NOTES (EN): The North Dakota Department of Transportation and the Federal Highway Administration have made environmental commitments to secure approval of this project. The following environmental notes are requirements to comply with these commitments:

EN-1 SPAWNING RESTRICTION: No Commitments

EN-2 AQUATIC NUISANCE SPECIES (ANS): No commitments

EN-3 TEMPORARY WETLAND IMPACT: Temporary impact areas within wetlands and or other waters are incorporated into the plans for this project. Remove temporary fill placed and sedimentation in wetlands or other waters. Restore the areas to preconstruction contours.

PERMITS REQUIRED:

United States Army Corps of Engineers – Section 404 Permit
Status: Not Required

Richland County Non-Building Floodplain Permit
Status: Not Required

North Dakota Sovereign Lands Permit – NDDWR Permit
Status: Not Required

North Dakota Floodway Review – NDDWR Permit
Status: Not Required

North Dakota Department of Environmental Quality – NDPDES Permit:
Status: To be obtained by the Contractor prior to construction. Owner is to be listed as NDDOT Fargo District on the permit



Estimated Quantities

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	8	1

SPEC	CODE	ITEM DESCRIPTION	UNIT	Mainline: Funding A	TOTAL
103	0100	CONTRACT BOND	L SUM	1	1
201	0370	REMOVAL OF TREES 10IN	EA	3	3
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	45	45
202	0130	REMOVAL OF CURB & GUTTER	LF	11	11
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	404	404
202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES	EA	4	4
203	0101	COMMON EXCAVATION-TYPE A	CY	289	289
203	0109	TOPSOIL	CY	885	885
203	0140	BORROW-EXCAVATION	CY	1394	1394
216	0100	WATER	M GAL	26.7	26.7
251	0300	SEEDING CLASS III	ACRE	0.68	0.68
251	2000	TEMPORARY COVER CROP	ACRE	0.68	0.68
253	0201	HYDRAULIC MULCH	ACRE	0.68	0.68
255	0102	ECB TYPE 2	SY	268	268
256	0701	REMOVE AND REPLACE RIPRAP	CY	10	10
261	0112	FIBER ROLLS 12IN	LF	2240	2240
261	0113	REMOVE FIBER ROLLS 12IN	LF	670	670
302	0120	AGGREGATE BASE COURSE CL 5	TON	943	943
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	47	47
702	0100	MOBILIZATION	L SUM	1	1
704	0100	FLAGGING	MHR	40	40
704	1000	TRAFFIC CONTROL SIGNS	UNIT	576	576
704	1052	TYPE III BARRICADE	EA	26	26
704	1054	SIDEWALK BARRICADE	EA	1	1
704	1060	DELINEATOR DRUMS	EA	50	50
704	1067	TUBULAR MARKERS	EA	50	50
708	1540	INLET PROTECTION-SPECIAL	EA	1	1
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	1	1
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	82	82
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF	16	16
714	5015	PIPE CORR STEEL .064IN 18IN	LF	138	138
714	5035	PIPE CORR STEEL .064IN 24IN	LF	64	64
714	5080	PIPE CORR STEEL .064IN ARCH 17IN X 13IN	LF	30	30
714	5810	END SECT CORR STEEL .064IN 18IN	EA	4	4
714	5820	END SECT CORR STEEL .064IN 24IN	EA	4	4
714	5859	END SECT CORR STEEL .064IN ARCH 17IN X 13IN	EA	2	2
722	3510	INLET-TYPE 2	EA	1	1
722	3730	INLET SPECIAL CATCH BASIN 9IN BEEHIVE 48IN	EA	1	1
722	3792	INLET SPECIAL CATCH BASIN 9IN BEEHIVE 72IN	EA	1	1
722	6140	ADJUST GATE VALVE BOX	EA	1	1
748	0140	CURB & GUTTER-TYPE I	LF	65	65
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	2038	2038
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	SY	520	520
750	2115	DETECTABLE WARNING PANELS	SF	174	174
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	55	55
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	281	281
754	0592	RESET SIGN PANEL	EA	5	5

Estimated Quantities

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	8	2

SPEC	CODE	ITEM DESCRIPTION	UNIT	Mainline: Funding A	TOTAL
762	0114	EPOXY PVMT MK 6IN LINE	LF	454	454
762	0117	EPOXY PVMT MK 24IN LINE	LF	80	80
930	9543	RETAINING WALL	SF	60	60

Preliminary Plans

BASIS OF ESTIMATE

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Commercial Grade Hot Mix Asphalt

2 Tons/CY

Aggregate Base Course CL 5

1.5 Tons/CY + 25% = 1.875 Tons/CY
5 Tons added for depth adjustments of the existing aggregate base after the pavement is removed.

Water

20 Gal/Ton for Aggregate Base Course
6 Gal/CY for Common Excavation/Borrow

Aggregate Base Course CL5 – For Sidewalks & Driveways

1.5 Tons/CY + 25% = 1.875 Tons/CY
Depth figured at 4" @ area of concrete for sidewalk or driveway.

Retaining Wall

18' Long x 16" High + 18' Long x 24" High = 60 SF

WATER			
Item	Gal/Ton	Tons	M Gal
Aggregate Base Course	20	943	18.9
	Gal/CY	CY	M Gal
Common Excavation	6	289	1.7
Borrow	6	1394	8.4
Total Water			29.0



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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EARTHWORK SUMMARY								
Location	Common Excavation - Type A (Pay Item)	Embankment	Shrinkage Factor	Adjusted Embankment	Borrow Excavation (Pay Item)	Topsoil Stripping (Pay Item)	Topsoil	Excess Topsoil
	CY	CY				(Pay Item)		
	A	B	C	D=B*C	D-A	E	F	G=E-F
Shared Use Path	289	1247	1.35	1683	1394	885	402	483
TOTALS	289	1247		1683	1394	885	402	483

Notes: 35% Additional volume has been added to account for shrinkage in earth embankment.



Data Tables
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota

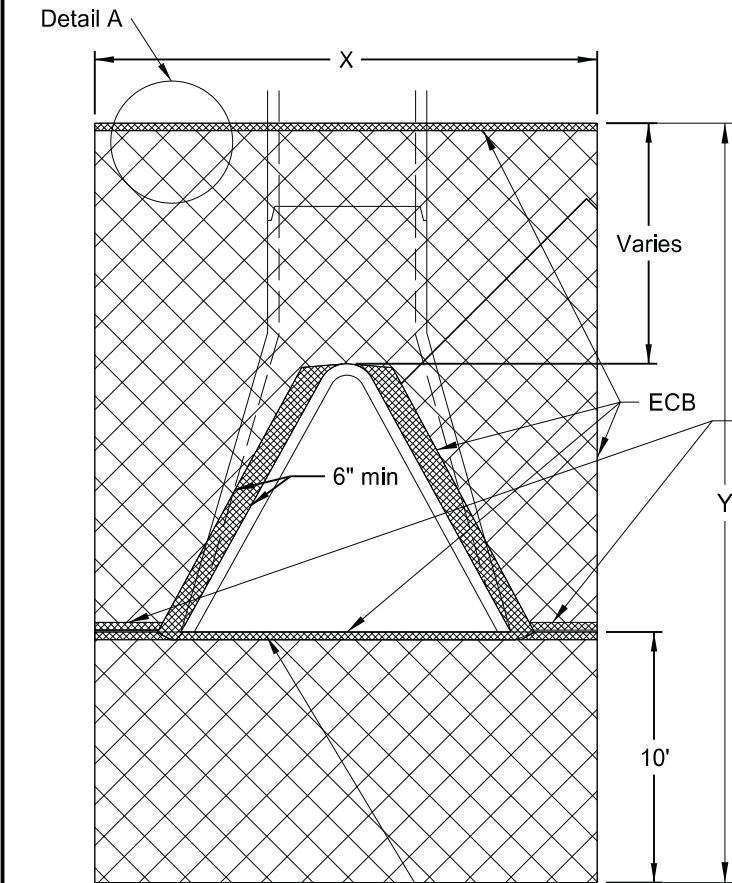
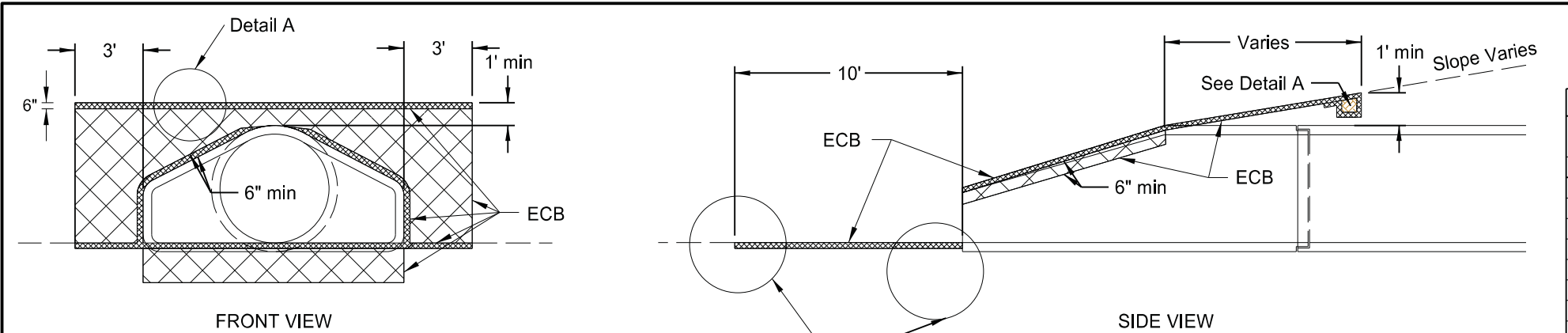
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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EARTHWORK VOLUMES BY STATION					
1	Excavation	Embankment			6
Station	Volume CY	Volume CY	Factor	Adjusted CY	Mass Ordinate CY
0+20	4	0	1.35	0	1
0+40	23	0	1.35	0	24
0+60	7	0	1.35	0	31
0+80	8	0	1.35	0	39
1+00	4	6	1.35	8	35
1+20	0	43	1.35	59	-24
1+40	2	4	1.35	5	-27
1+60	7	0	1.35	0	-20
1+80	1	7	1.35	9	-28
2+00	0	44	1.35	59	-87
2+20	0	57	1.35	77	-164
2+40	5	38	1.35	51	-210
2+60	20	0	1.35	0	-190
2+80	25	0	1.35	0	-165
3+00	17	1	1.35	1	-149
3+20	5	13	1.35	18	-162
3+40	0	22	1.35	30	-192
3+60	0	37	1.35	50	-242
3+80	0	48	1.35	65	-307
4+00	1	41	1.35	55	-361
4+20	1	22	1.35	30	-390
4+40	2	26	1.35	35	-423
4+60	2	33	1.35	45	-466
4+80	3	34	1.35	46	-509
5+00	3	33	1.35	45	-551
5+20	3	30	1.35	40	-588
5+40	1	23	1.35	31	-618
5+60	2	45	1.35	61	-677
5+80	0	66	1.35	89	-766
6+00	0	64	1.35	86	-852
6+20	0	37	1.35	50	-902
6+40	5	9	1.35	12	-909
6+60	10	0	1.35	0	-899
6+80	10	0	1.35	0	-889
7+00	9	1	1.35	1	-881
7+20	2	10	1.35	14	-893
7+40	0	16	1.35	22	-915
7+60	0	14	1.35	19	-934
7+80	0	12	1.35	16	-950
8+00	0	9	1.35	12	-962
8+20	0	5	1.35	7	-969
8+40	1	3	1.35	4	-972
8+60	1	1	1.35	1	-972
8+80	5	0	1.35	0	-967
9+00	9	0	1.35	0	-958
9+20	9	0	1.35	0	-949
9+40	10	0	1.35	0	-939
9+60	7	0	1.35	0	-932
9+80	0	6	1.35	8	-940
10+00	0	11	1.35	15	-955
10+20	0	19	1.35	25	-980
10+40	0	26	1.35	35	-1015
10+60	0	24	1.35	32	-1047
10+80	0	16	1.35	22	-1069
11+00	0	4	1.35	5	-1074
11+20	0	1	1.35	1	-1075
11+40	2	0	1.35	0	-1073
11+60	4	0	1.35	0	-1069
11+80	4	0	1.35	0	-1065

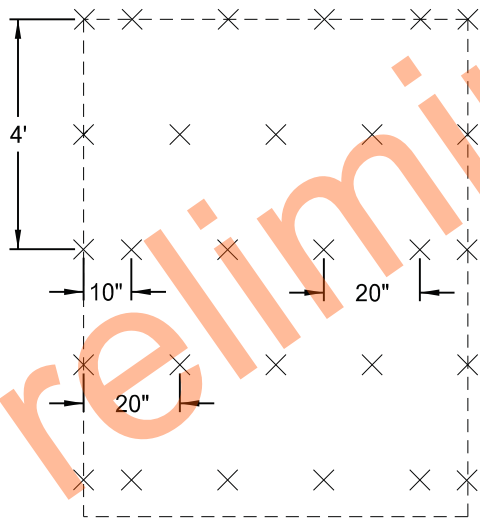
EARTHWORK VOLUMES BY STATION					
1	Excavation	Embankment			6
Station	Volume CY	Volume CY	Factor	Adjusted CY	Mass Ordinate CY
12+00	4	0	1.35	0	-1061
12+20	3	2	1.35	3	-1061
12+40	2	5	1.35	7	-1066
12+60	2	7	1.35	9	-1073
12+80	2	9	1.35	12	-1083
13+00	3	10	1.35	14	-1094
13+20	3	11	1.35	15	-1106
13+40	1	12	1.35	16	-1121
13+60	1	16	1.35	22	-1142
13+80	1	18	1.35	24	-1165
14+00	1	17	1.35	23	-1187
14+20	0	15	1.35	20	-1207
14+40	0	13	1.35	18	-1225
14+60	0	8	1.35	11	-1236
14+80	0	4	1.35	5	-1241
15+00	1	1	1.35	1	-1241
15+20	1	0	1.35	0	-1240
15+40	1	0	1.35	0	-1239
15+60	0	2	1.35	3	-1242
15+80	1	4	1.35	5	-1246
16+00	5	5	1.35	7	-1248
16+20	1	4	1.35	5	-1252
16+40	5	14	1.35	19	-1266
16+60	0	40	1.35	54	-1320
16+80	0	20	1.35	27	-1347
17+00	0	8	1.35	11	-1358
17+20	0	4	1.35	5	-1363
17+40	0	2	1.35	3	-1366
17+60	1	0	1.35	0	-1365
17+80	1	1	1.35	1	-1365
18+00	0	1	1.35	1	-1366
18+20	0	1	1.35	1	-1367
18+40	0	3	1.35	4	-1371
18+60	0	3	1.35	4	-1375
18+80	1	1	1.35	1	-1375
19+00	2	0	1.35	0	-1373
19+20	2	0	1.35	0	-1371
19+40	2	0	1.35	0	-1369
19+60	1	0	1.35	1	-1369
19+80	0	3	1.35	4	-1373
20+00	0	5	1.35	7	-1380
20+20	0	5	1.35	7	-1387
20+40	0	5	1.35	7	-1394
20+60	0	3	1.35	4	-1398
20+80	1	1	1.35	1	-1398
21+00	4	0	1.35	0	-1394
Grand Total:	289	1247		1683	



Data Tables
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota

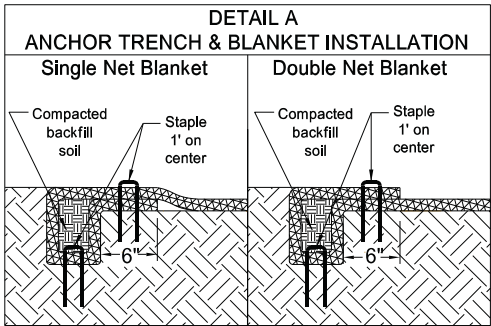
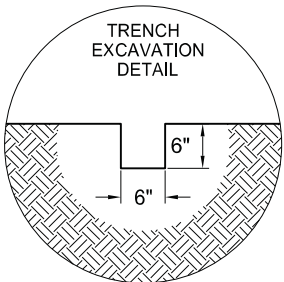


Tuck this end a minimum of 6" into the embankment.

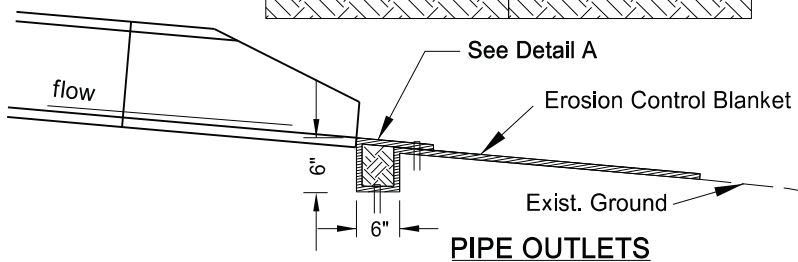
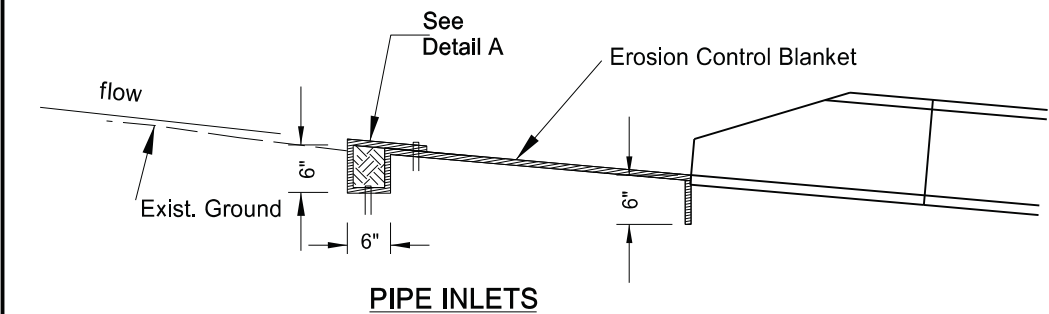


APPROACH CULVERTS				
DIA	X	Y	Surface area to be protected	ECB
In	Ft	Ft	SF	SY
15	9.0	20.0	176.0	20
18	9.5	20.7	190.7	22
21	9.5	21.0	190.9	22
24	10.5	21.6	214.1	24
27	11.0	22.0	226.3	25
30	11.6	22.5	241.5	27
36	12.7	23.3	268.8	30
42	13.3	23.3	279.7	31
48	13.8	24.0	293.2	33
54	14.5	23.4	300.6	34
60	15.0	23.0	307.5	35
66	15.6	24.0	325.6	37
72	16.2	24.5	340.6	38

Note: Quantities based on 8:1 slope.



NOTE: Tuck the ECB a minimum of 6" into the embankment (against the flared end section) around the opening of the flared end section.



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Erosion Control Blanket (ECB)								
Location to be Protected Station	Culvert Type Appr/CL	Pipe Diam (Inch)	No	Unit Quantity (SY)	Total Quantity			
					Type 1 (SY)	Type 2 (SY)	Type 3 (SY)	Type 4 (SY)
1+11 Lt	NOTE 1	--	1	28		28		
3+43 Lt	CL	18"	1	22		22		
3+85 Rt	CL	18"	1	22		22		
5+51 Rt	CL	18"	1	22		22		
5+85 Lt	CL	18"	1	22		22		
10+49 Lt	CL	18"	1	22		22		
10+66 Rt	CL	18"	1	22		22		
16+50 Rt	Appr	24"	1	24		24		
16+50 Lt	Appr	24"	1	24		24		
16+60 Rt	Appr	24"	1	24		24		
16+60 Lt	Appr	24'	1	24		24		
Total (SYs)						256		

Note 1 - Road slope and inlet.

CENTERLINE CULVERTS					
DIA	X	Y	Surface area to be protected	ECB	
In	Ft	Ft	SF	SY	
24	10.5	19.6	193.1	22	24
27	11.0	20.0	204.3	23	27
30	11.6	20.5	218.3	25	30
36	12.7	21.2	242.1	27	36
42	13.3	21.2	251.8	28	42
48	13.8	22.0	265.6	30	48
54	14.5	21.5	273.7	31	54
60	15.0	21.0	278.3	31	60
66	15.6	22.0	295.7	33	66
72	16.2	22.5	309.2	35	72

Note: Quantities based on 6:1 slope.

Note: Quantities based on 4:1 slope.

Erosion Control at Culvert Flared End Section

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

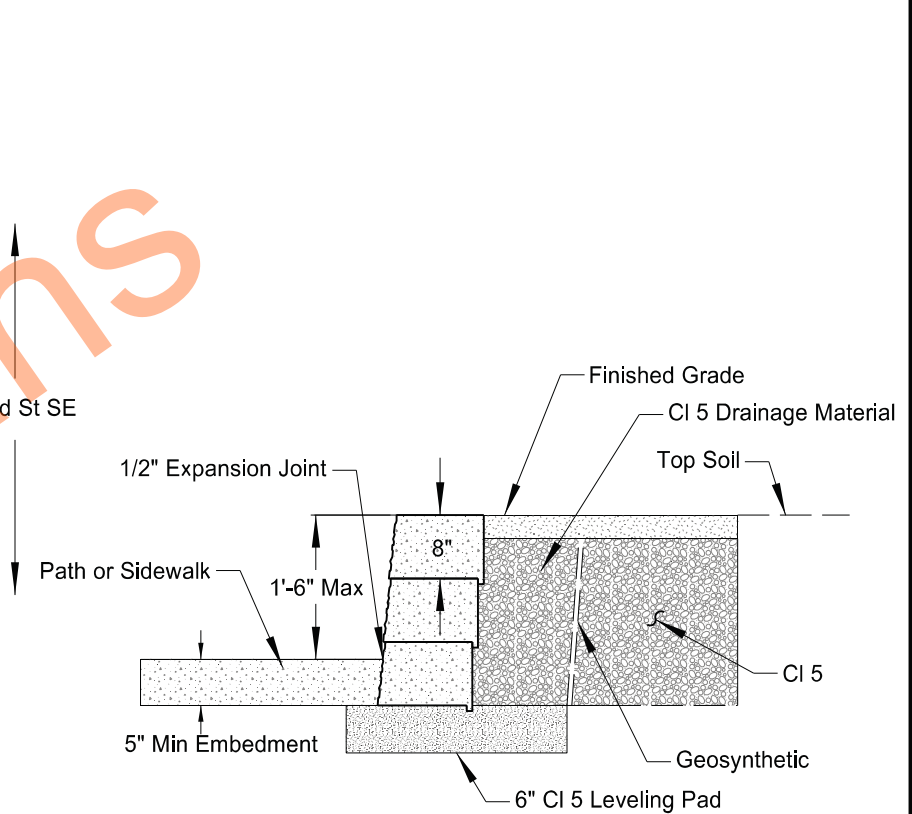
Shared Use Path

Richland County, North Dakota



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6/26/2026
ENGINEER
NORTH DAKOTA

SPEC	CODE	BID ITEM	UNIT	QTY
930	9543	RETAINING WALL		
0+00	to 0+36	Lt	SF	60



Not to Scale

Notes:

1. The wall shown on this page is shown for the approximate alignment and elevation only.
2. The contractor shall construct the wall based on the chosen manufactureres standard details.
3. Retaining wall block shall be Keystone Compac III, Versa-Lok Square Foot or approved equal. Color shall be Sandstone or approved equal
4. All exposed faces of the retaining wall shall have a finished face whether it is on the front, back, or side of wall.



Retaining Wall Details
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota



NOTES

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	ND	NDS-SS-8-011(053)153	20	4

Preparation

A. Fill Soil

1. The contractor shall verify that any fill soil installed in the foundation and retained soil zones of the retaining wall satisfies the specification of the retaining wall Design Engineer as shown on the construction drawings.

B. Excavation

1. The grading contractor shall excavate to the lines and grades required for construction of the precast modular block retaining wall as shown on the construction drawings. The grading contractor shall minimize over-excavation. Excavation support, if required, shall be the responsibility of the grading contractor.
2. Over-excavated soil shall be replaced with compacted fill in conformance with the specifications of the retaining wall Design Engineer and the project specifications.
3. Embankment excavations shall be bench cut as directed by the project Geotechnical Engineer and inspected by the Geotechnical Engineer for compliance.

C. Foundation Preparation

1. Prior to construction of the precast modular block retaining wall, the leveling pad area and undercut zone (if applicable) shall be cleared and grubbed. All topsoil, brush, frozen soil, and organic material shall be removed. Additional foundation soils found to be unsatisfactory beyond the specified undercut limits shall be undercut and replaced with approved fill as directed by the project Geotechnical Engineer. The contractor shall ensure that the undercut limits are consistent with the requirements of the project Geotechnical Engineer and that all soil fill material is properly compacted according to project specifications. The contractor shall document the volume of undercut and replacement.
2. Following excavation for the leveling pad and undercut zone (if applicable), the Geotechnical Engineer shall evaluate the in-situ soil in the foundation and retained soil zones.

- A. The Geotechnical Engineer shall verify that the shear strength of the in-situ soil assumed by the retaining wall Design Engineer is appropriate. The Geotechnical Engineer shall immediately stop work and notify the owner if the in-situ shear strength is found to be inconsistent with the retaining wall design assumptions.

- B. The Geotechnical Engineer shall verify that the foundation soil exhibits sufficient ultimate bearing capacity to satisfy the requirements indicated on the retaining wall construction shop drawings.

D. Leveling Pad

1. The leveling pad shall be constructed to provide a level, hard surface on which to place the first course of precast modular block units. The leveling pad shall be placed in the dimensions shown on the retaining wall construction drawings and extend to the limits indicated.
2. Crushed stone leveling pad. Crushed stone shall be placed in uniform maximum loose lifts of 8 inches. The crushed stone shall be compacted by a minimum of 3 passes of a vibratory compactor capable of exerting 2,000 lb. of centrifugal force. Compaction shall reach the percentage specified in the construction drawings and tested per ASTM D698 and a minimum of 1 test per 25 LF of retaining wall.
3. Unreinforced concrete leveling pad. The concrete shall be placed in the same dimensions as those required for the crushed stone leveling pad. The retaining wall installation contractor shall erect proper forms as required to ensure the accurate placement of the concrete leveling pad according to the retaining wall construction drawings.

Geogrid

- A. Geogrid shall be MIRAFI 3XT or equal.
- B. Install geogrid soil reinforcement in accordance with geogrid soil reinforcement manufacturer's instructions.
- C. Install geogrid soil reinforcement at location, elevation, length, and orientation as indicated on the drawings or as directed by Engineer.
- D. Orient geogrid soil reinforcement with highest strength axis perpendicular to retaining wall alignment.
- E. Lay geogrid soil reinforcement horizontally on compacted backfill and attach to concrete landscape blocks.
- F. Place next course of concrete landscape blocks over geogrid soil reinforcement.
- G. Pull geogrid soil reinforcement taut, free of wrinkles and anchor before backfill placement on geogrid soil reinforcement.
- H. Ensure geogrid soil reinforcement is continuous throughout embedment length and is placed side-by-side to provide 100 percent coverage at each level.
- I. Do not splice connections between shorter pieces of geogrid soil reinforcement.
- J. Do not allow gaps between adjacent pieces of geogrid soil reinforcement.

General

- A. All work shall be performed in accordance with OSHA safety standards, state and local building codes and manufacturer's requirements.
- B. The general contractor is responsible for the location and protection of all existing underground utilities. Any new utilities proposed for installation in the vicinity of the retaining wall, shall be installed concurrent with retaining wall construction. The general contractor shall coordinate the work of subcontractors affected by this requirement.
- C. New utilities installed below the retaining wall shall be backfilled and compacted to a minimum of 98% maximum dry density per ASTM D698 standard proctor.
- D. The general contractor is responsible to ensure that safe excavations and embankments are maintained throughout the course of the project.
- E. Install block units per manufacture's requirements, details, specifications and recommendations.
- F. The owner or owner's representative has not provided soil strength parameters for design of the segmental retaining walls. In preparation of wall design, soil strength parameters were assumed by IEI, based on a review of Minnesota geological survey surficial geology soil maps of the project area and information from the client. It is the responsibility of the owner or owner's representative to verify the assumed soil strength parameters are found to be inconsistent with those assumed by IEI, this design is no longer valid and it is the responsibility of the owner or owner's representative to notify IEI so the retaining wall system can be redesigned, failure to notify IEI may result in failure of the retaining wall.

Retaining Wall Notes

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota



NOTES

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G. Assumed design soil parameters:

- 1. Reinforced soil: imported granular (SP) PHI = 27 degrees gamma = 125 PCF
- 2. Retained soil: imported/on-site clay (CI) PHI = 27 degrees gamma = 125 PCF
- 3. Foundation soil: imported/on-site clay (CI) PHI = 27 degrees gamma = 125 PCF

Drainage Pipe

A. Drainage pipe

- 1. Drainage collection pipe shall be a 4-inch diameter, 3-hole perforated, HDPE pipe with a minimum pipe stiffness of 22 PSI per ASTM D2412.
- 2. The drainage pipe shall be manufactured in accordance with ASTM D1248 for HDPE pipe and fittings.

B. Preapproved drainage pipe products

C. Ads 3000 triple wall pipe as manufactured by advanced drainage systems.

Reinforced Backfill Requirements

A. Install clean material.

B. Gradation

- 1. Source gradation must be provided to Engineer for review prior to installation.

- non-expansive 3" minus
- 4 Sieve: 40%-85%
- 200 Sieve: 0-15%
- Liquid limit less than 25

C. Site excavated soils: acceptable when specified requirements can be met.

D. Do not use unsuitable soils, including high-plastic clays, or organic soils, for backfill or in reinforced soil mass.

E. Place, spread, and compact reinforced backfill to minimize slack in geogrid soil reinforcement and installation damage.

F. Place and compact reinforced backfill in maximum 8-inch loose lifts.

G. Decrease lift thickness to achieve required density, if necessary.

H. Compact reinforced backfill to 95 percent of maximum density in accordance with ASTM D698.

I. Ensure moisture content of reinforced backfill before and during compaction is uniformly distributed throughout each layer and is within plus 3 percent, minus 3 percent of optimum moisture content.

J. Construction equipment:

- 1. Allow only lightweight hand-operated equipment within 3 feet from soil side of concrete landscape blocks.
- 2. Do not operate tracked construction equipment directly on geogrid soil reinforcement.
- 3. Provide minimum backfill thickness of 6 inches before operation of tracked vehicles over geogrid soil reinforcement.
- 4. Keep tracked vehicle turning to a minimum to prevent tracks from displacing backfill and damaging geogrid soil reinforcement.
- 5. Do not allow rubber-tired equipment to pass over geogrid soil reinforcement at speeds greater than 10 mph.
- 6. Avoid sudden braking and sharp turning with rubber-tired equipment.
- 7. Slope last lift of reinforced backfill away from concrete landscape blocks to direct runoff away from retaining wall face, at end of each day's operation.

K. Do not allow surface runoff from adjacent areas to enter retaining wall fill zone.

Porous Backfill

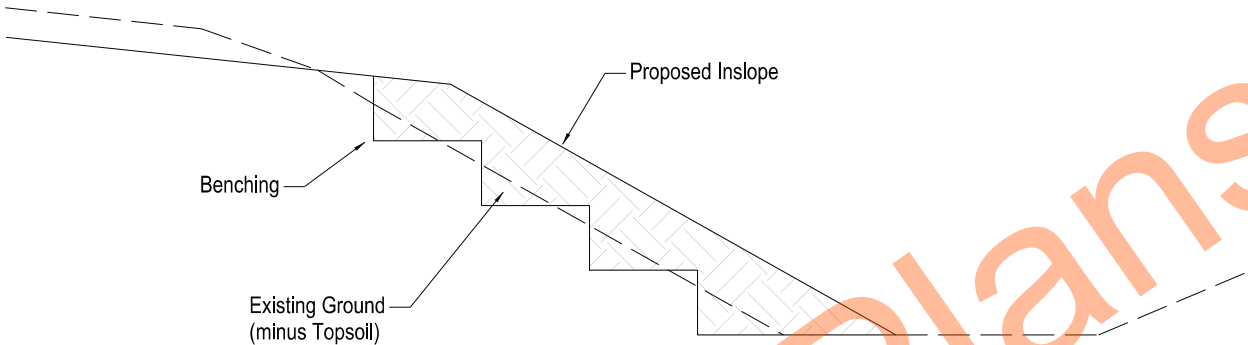
A. Drainage aggregate shall be a durable crushed stone conforming to no. 57 size per ASTM C33 with the following particle-size distribution requirements per ASTM D422:

US Standard Sieve Size	% Passing
1-1/2"	100
1"	95 - 100
1/2"	25 - 60
No. 4	0 - 10
No. 8	0 - 5
No. 200	0 - 5

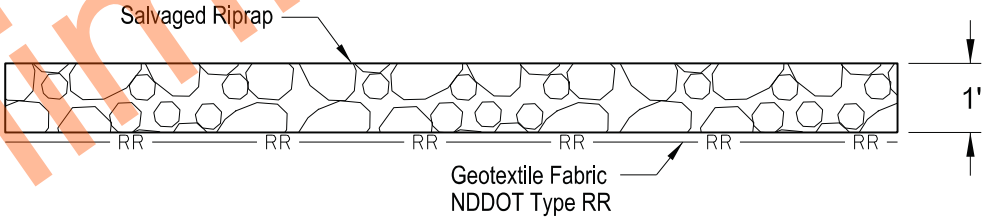
Retaining Wall Notes
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Benching - Typical Section
Not To Scale

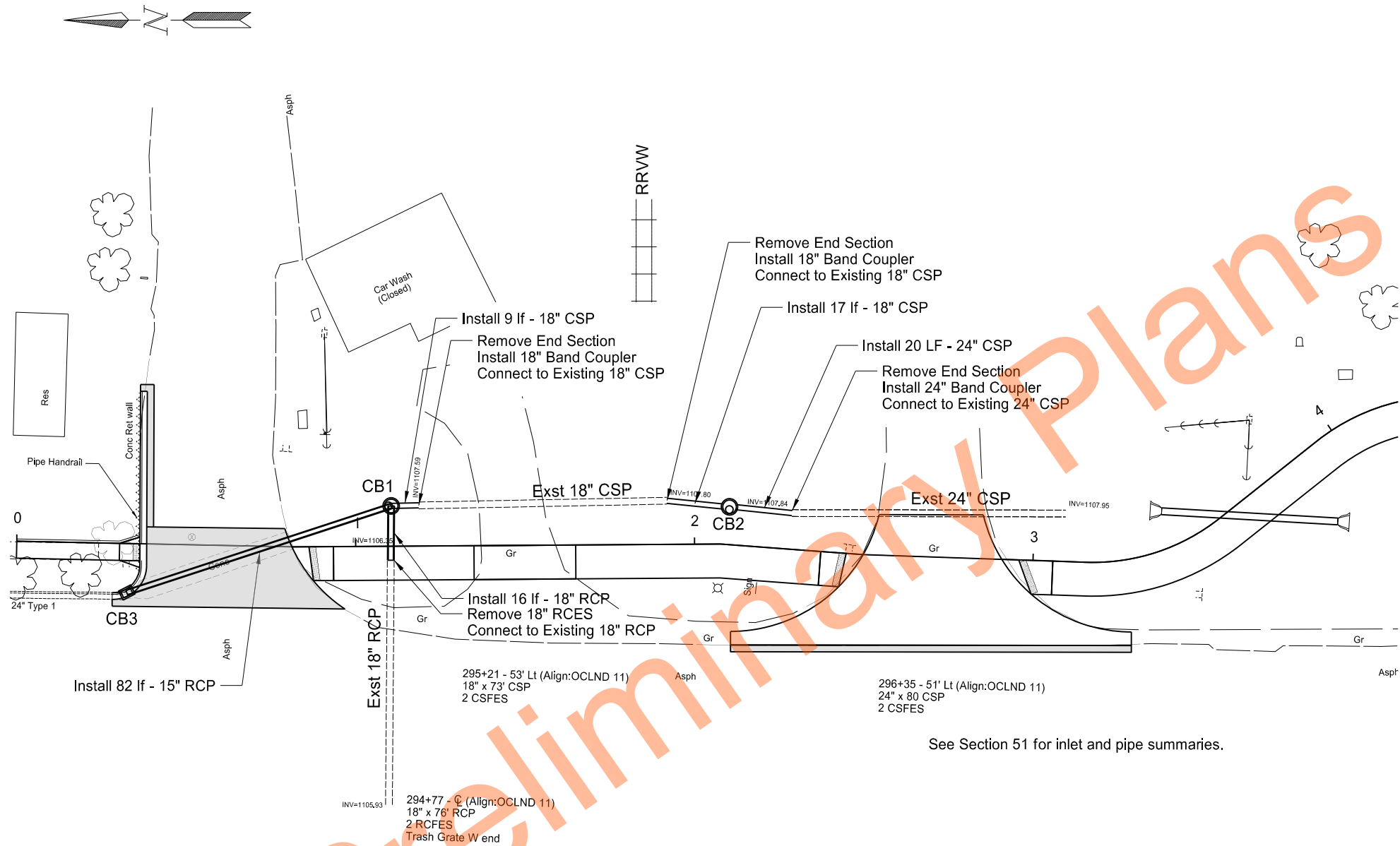


Salvaged Riprap Typical Section
Not to Scale

Details
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota



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Storm Sewer Layout



Storm Sewer Layout

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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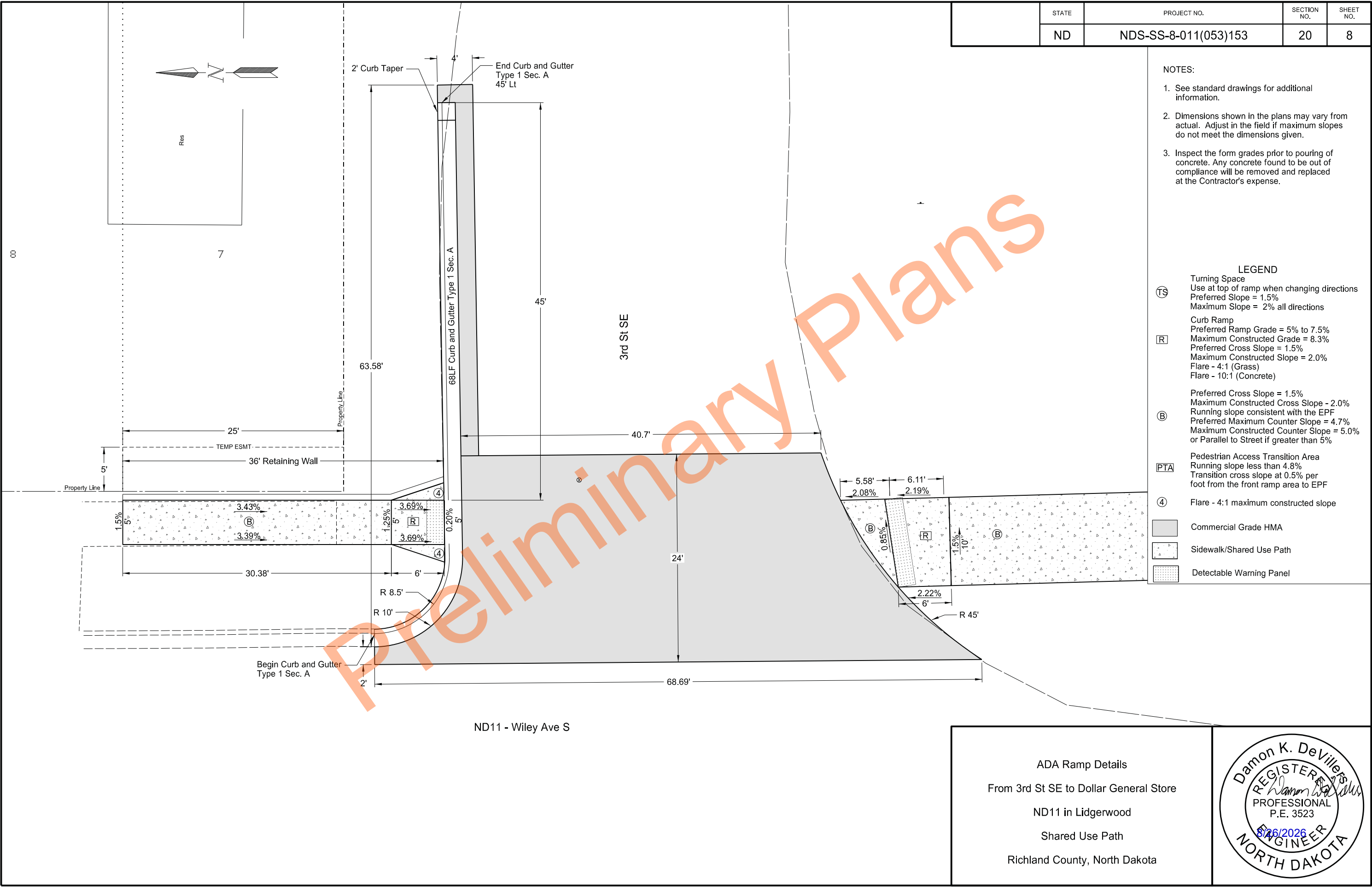
PROFESSIONAL

P.E. 3523

8/26/2026

ENGINEER

NORTH DAKOTA



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	20	8

- NOTES:
- See standard drawings for additional information.
 - Dimensions shown in the plans may vary from actual. Adjust in the field if maximum slopes do not meet the dimensions given.
 - Inspect the form grades prior to pouring of concrete. Any concrete found to be out of compliance will be removed and replaced at the Contractor's expense.

LEGEND

Turning Space
Use at top of ramp when changing directions
Preferred Slope = 1.5%
Maximum Slope = 2% all directions

Curb Ramp
Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2.0%
Flare - 4:1 (Grass)
Flare - 10:1 (Concrete)

Preferred Cross Slope = 1.5%
Maximum Constructed Cross Slope - 2.0%
Running slope consistent with the EPF
Preferred Maximum Counter Slope = 4.7%
Maximum Constructed Counter Slope = 5.0%
or Parallel to Street if greater than 5%

Pedestrian Access Transition Area
Running slope less than 4.8%
Transition cross slope at 0.5% per foot from the front ramp area to EPF

Flare - 4:1 maximum constructed slope

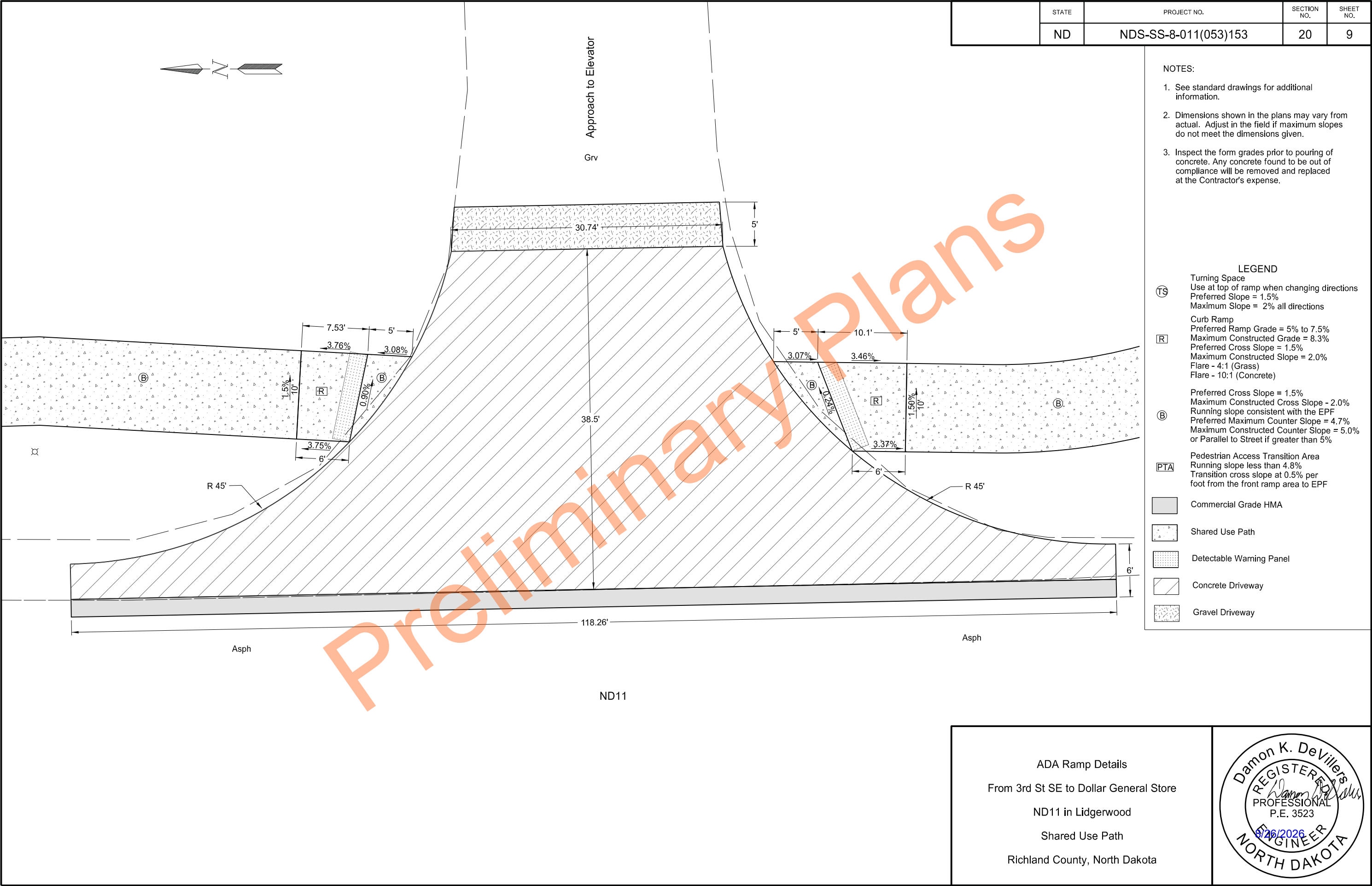
Commercial Grade HMA

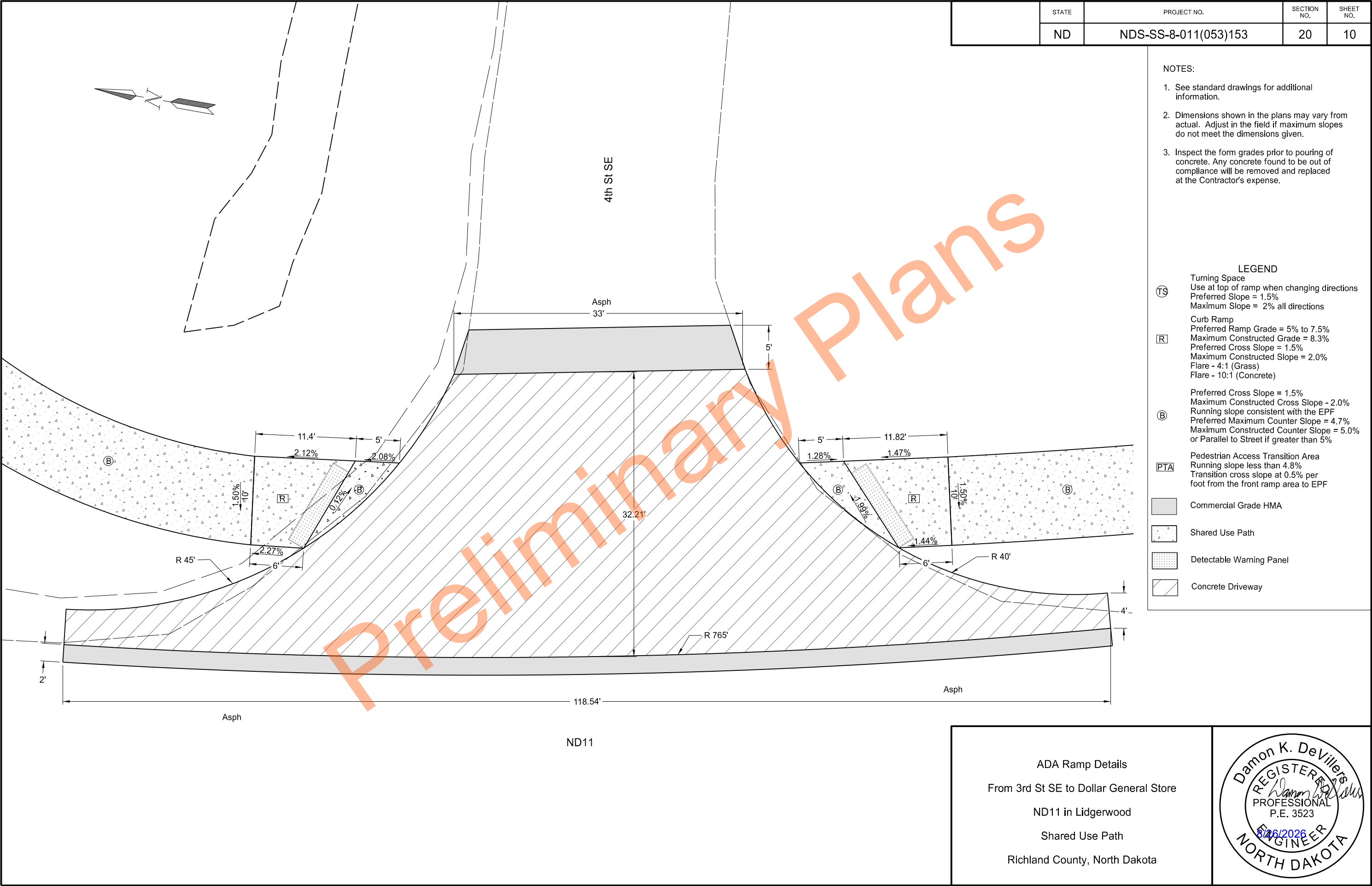
Sidewalk/Shared Use Path

Detectable Warning Panel

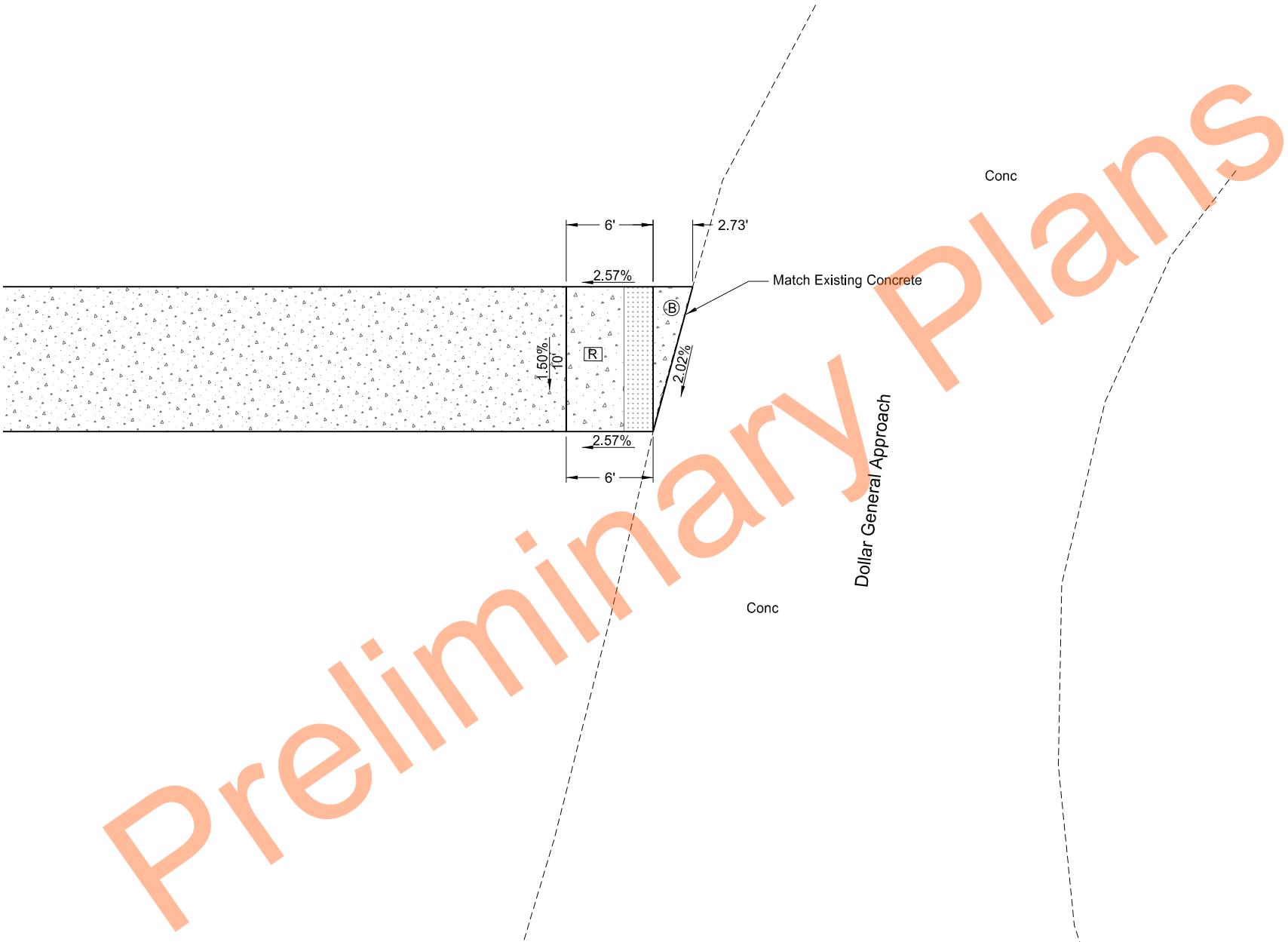
ADA Ramp Details
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota







	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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- NOTES:
1. See standard drawings for additional information.
 2. Dimensions shown in the plans may vary from actual. Adjust in the field if maximum slopes do not meet the dimensions given.
 3. Inspect the form grades prior to pouring of concrete. Any concrete found to be out of compliance will be removed and replaced at the Contractor's expense.

LEGEND

Turning Space
Use at top of ramp when changing directions
Preferred Slope = 1.5%
Maximum Slope = 2% all directions

Curb Ramp
Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2.0%
Flare - 4:1 (Grass)
Flare - 10:1 (Concrete)

Preferred Cross Slope = 1.5%
Maximum Constructed Cross Slope - 2.0%
Running slope consistent with the EPF
Preferred Maximum Counter Slope = 4.7%
Maximum Constructed Counter Slope = 5.0%
or Parallel to Street if greater than 5%

Pedestrian Access Transition Area
Running slope less than 4.8%
Transition cross slope at 0.5% per foot from the front ramp area to EPF

Shared Use Path

Detectable Warning Panel

ADA Ramp Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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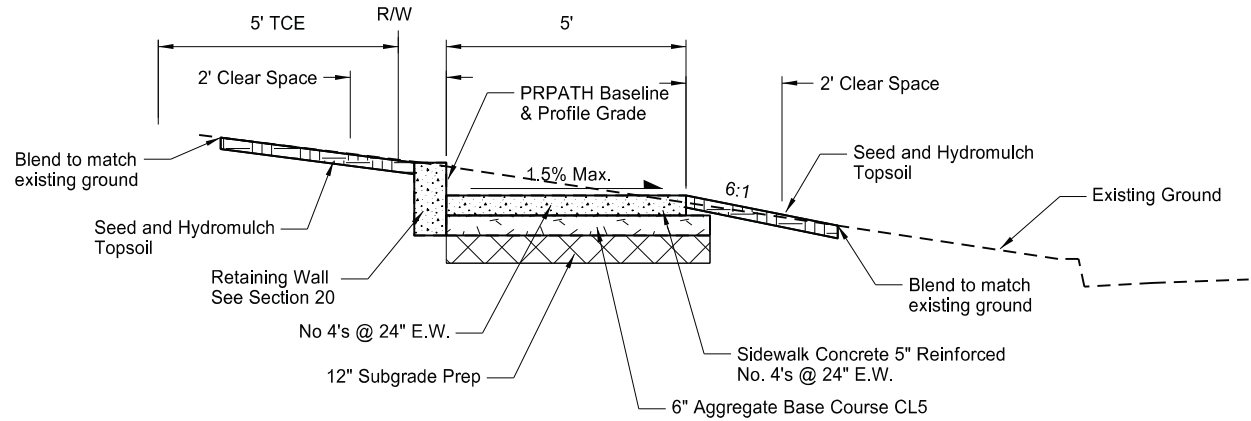
P.E. 3523

8/26/2026

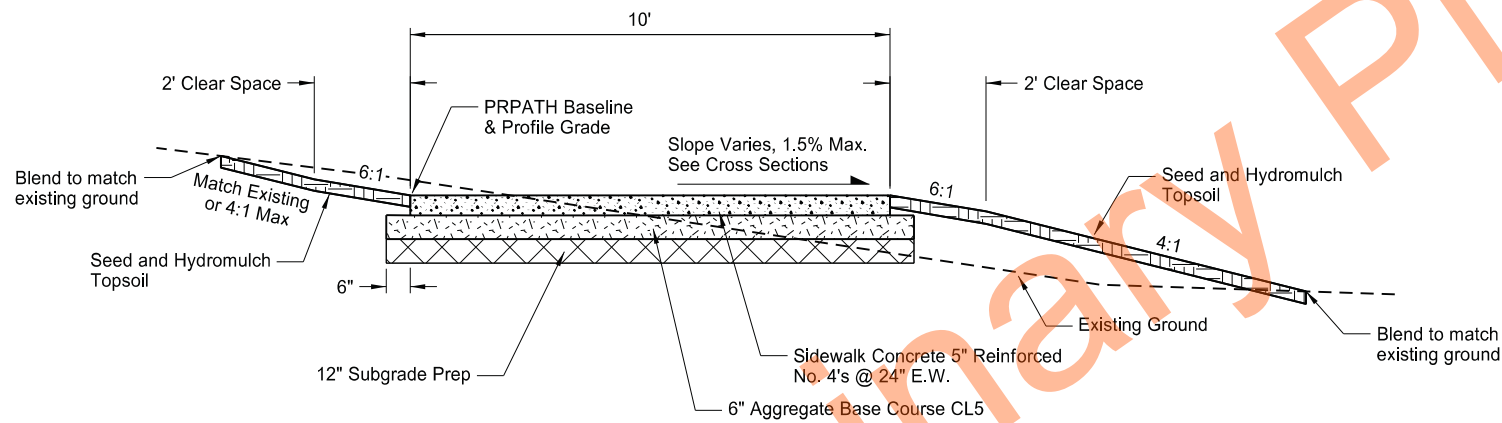
ENGINEER

NORTH DAKOTA

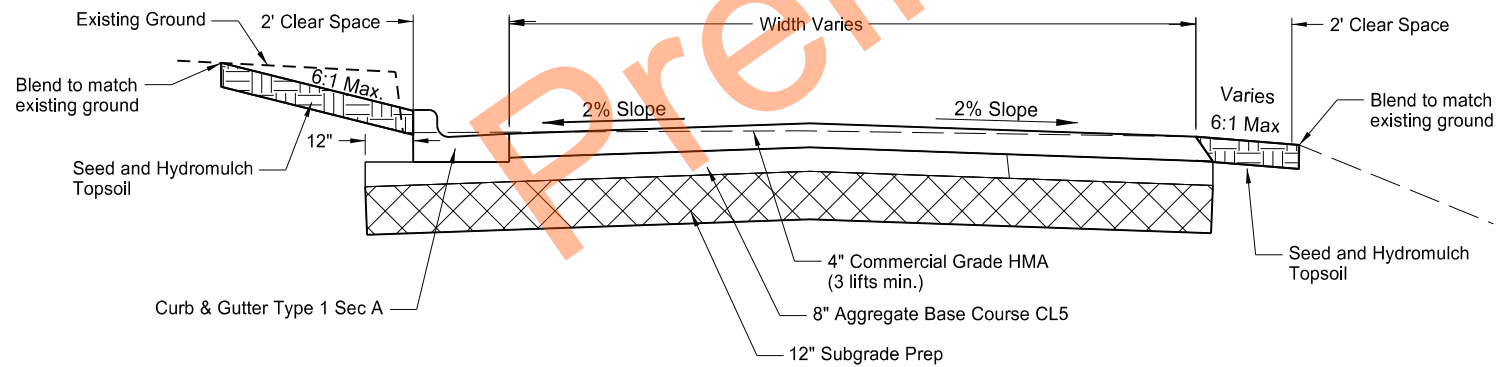
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	30	1



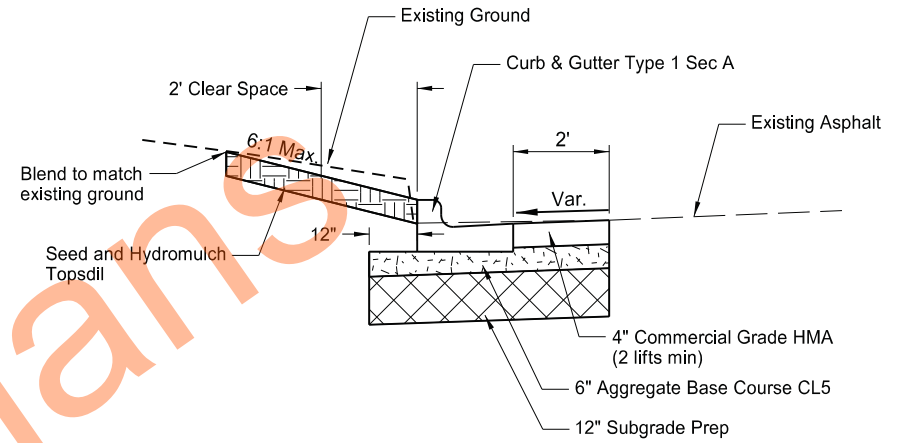
Proposed Sidewalk
Reinforced Concrete Typical Section
Sta 0+00 to Sta 0+36



Proposed Shared Use Path
Reinforced Concrete Typical Section
Sta 0+83 to Sta 21+00



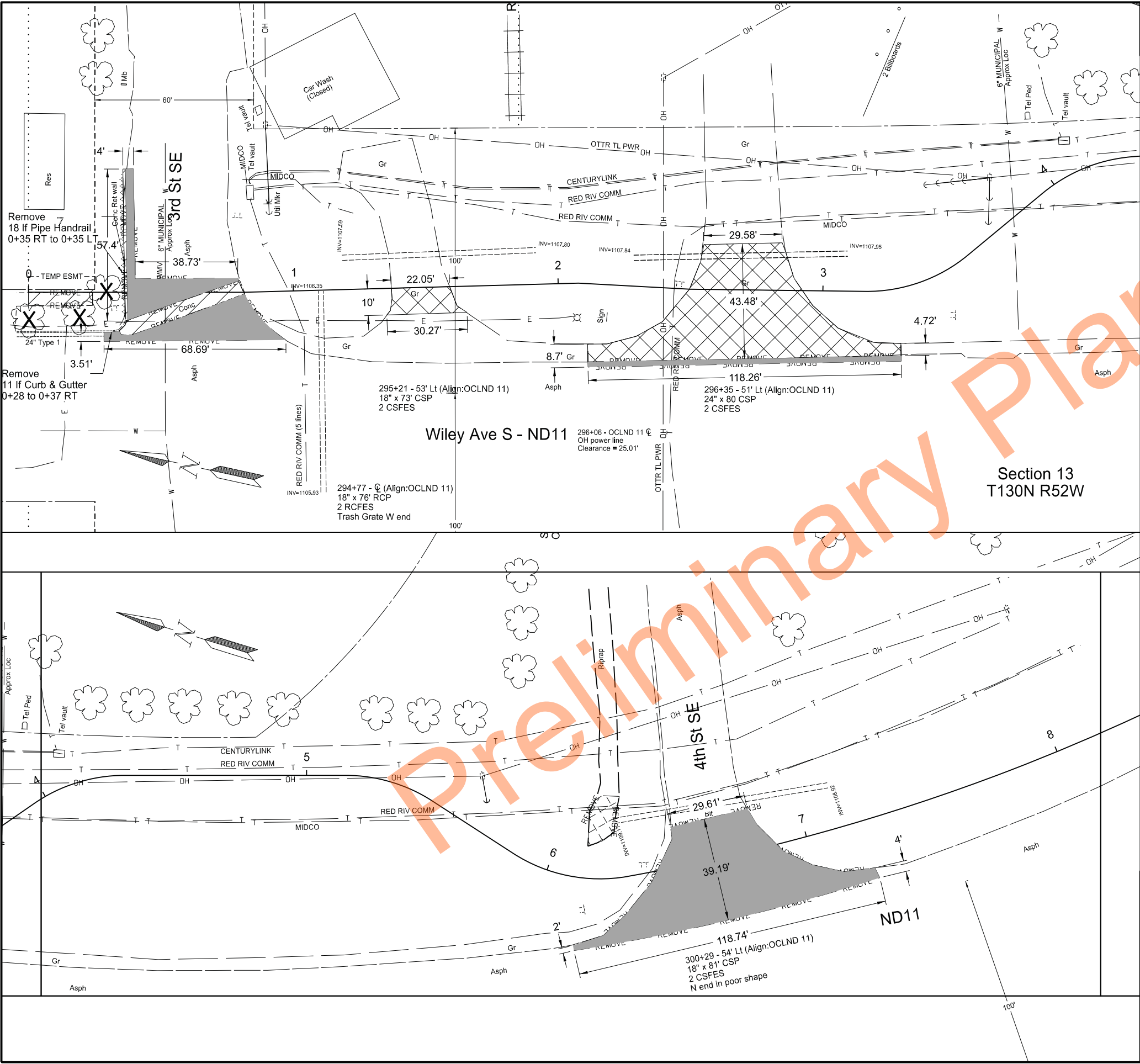
3rd Street Repair Section
Street Repair Section
Sta 0+36 to Sta 0+83
45' Lt to 18' Rt



3rd Street Repair Section
Patching for Curb and Gutter

Proposed Shared Use Path Typical Sections
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





		STATE		PROJECT NO.		SECTION NO.		SHEET NO.	
		ND		NDS-SS-8-011(053)153		40		1	

SPEC	CODE	BID ITEM				UNIT	QTY
201	0370	REMOVAL OF TREES 10IN					
0+00	RT					EA	1
0+18	RT					EA	1
0+28	LT					EA	1

SPEC	CODE	BID ITEM				UNIT	QTY
202	0130	REMOVAL OF CURB & GUTTER					
0+28	to	0+37	RT			LF	11

202	0114	REMOVAL OF CONCRETE PAVEMENT					
0+00	to	0+24	SIDEWALK			SY	14
0+35	to	0+35	9' RT to 45' LT	RETAINING WALL		SY	2
0+37	to	0+80	6' VALLEY	GUTTER		SY	29

202	0132	REMOVAL OF BITUMINOUS SURFACING					
0+28	to	0+96	3rd St	SE		SY	115
2+12	to	3+25	Approach			SY	26
6+13	to	7+22	Approach			SY	263

202	0169	REMOVAL OF END SECTIONS-ALL TYPES & SIZES					
1+10	LT	18" RCES with Grate				EA	1
1+17	LT	18" CSFES				EA	1
1+92	LT	18" CSFES				EA	1
2+28	LT	24" CSFES				EA	1

SPEC	CODE	BID ITEM				UNIT	QTY
256	0701	REMOVE AND REPLACE RIPRAP					
6+07	to	6+33			CY	10	

Legend

X

Removal of Trees

REMOVE

REMOVE

Remove & Replace Riprap

REMOVE

REMOVE

Removal of Bituminous Surfacing

REMOVE

REMOVE

Removal of Aggregate Surfacing

REMOVE

REMOVE

Removal of Concrete Pavement

Removals

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers

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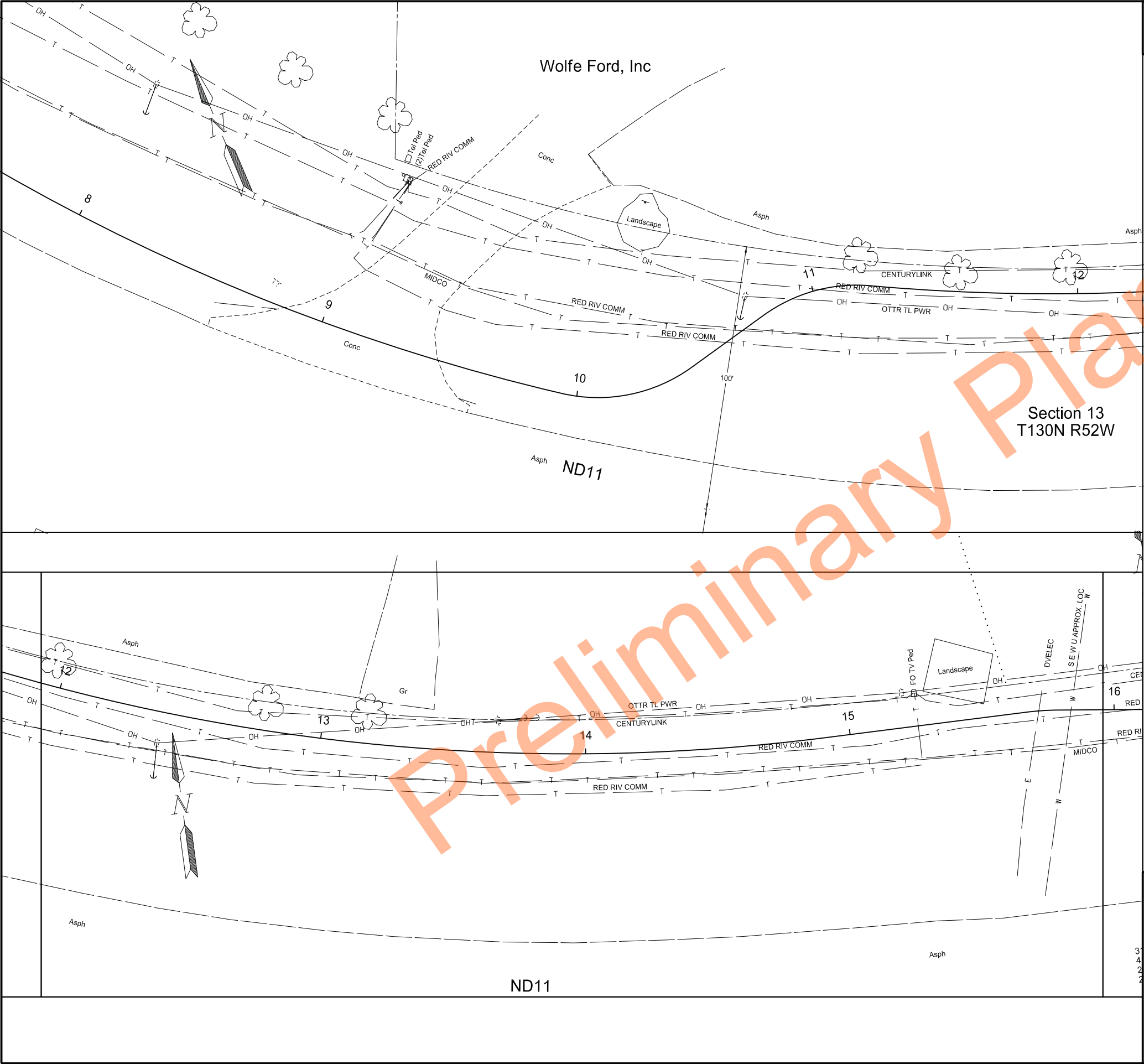
PROFESSIONAL

P.E. 3523

8/26/2026

ENGINEER

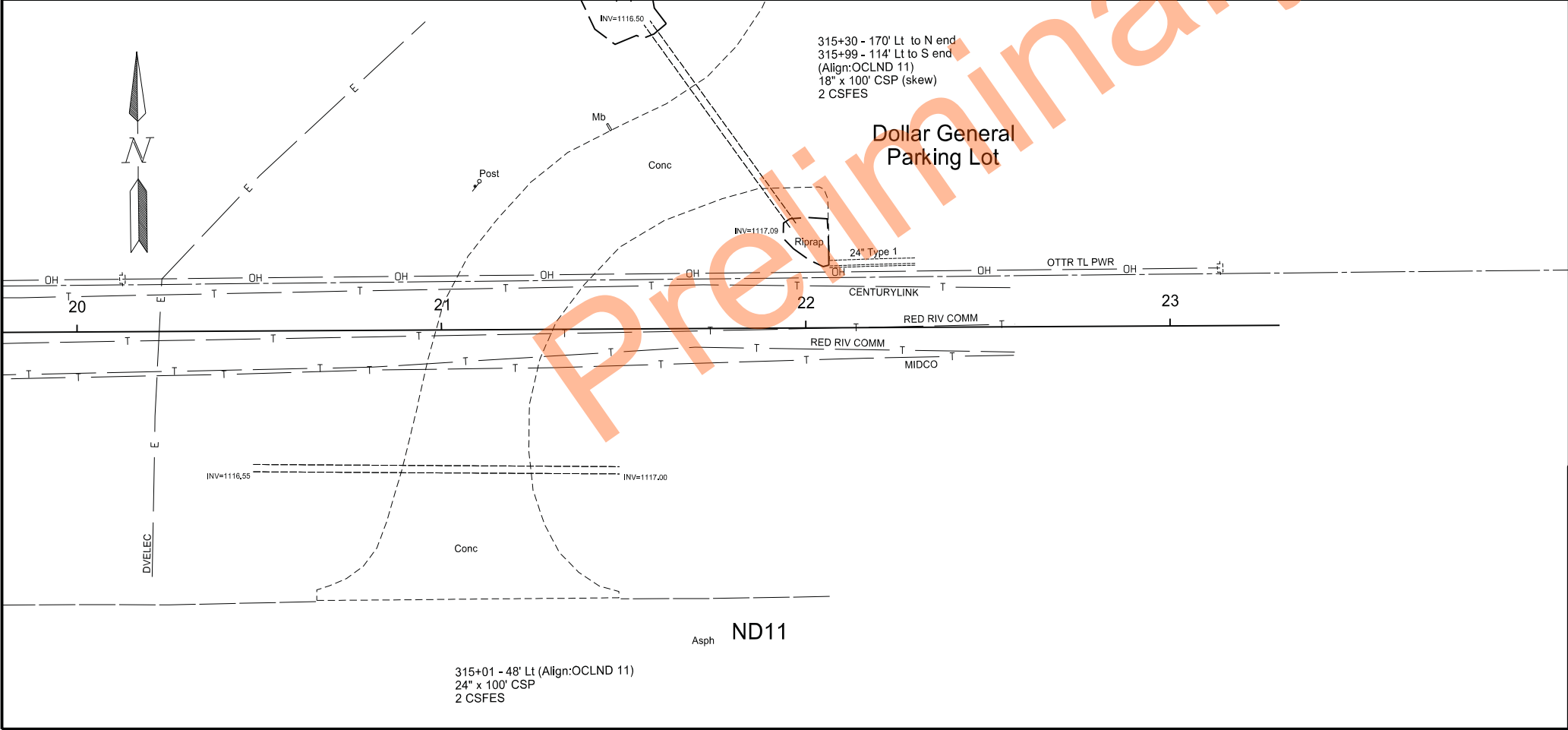
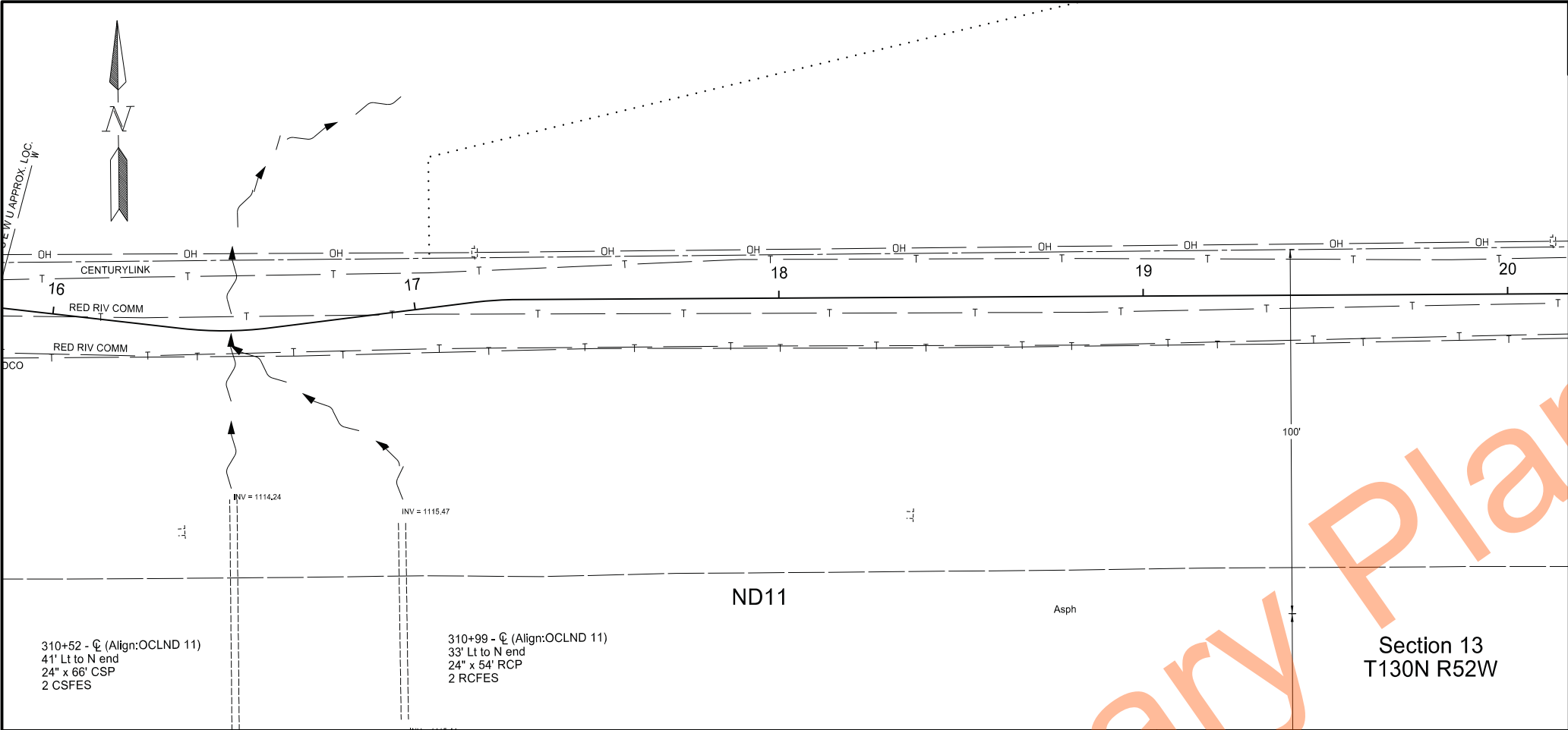
NORTH DAKOTA



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	40	2

Removals Erosion Control
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota

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NORTH DAKOTA



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	40	3

Section 13
T130N R52W

Removals
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	51	1

Begin Station / Location	Begin Offset	End Station / Location	End Offset	Pipe Installation (Pay Item)			Allowable Material	Required Diameter	Steel Pipe Coatings	Steel Pipe Corrugations or Spiral Ribs	Steel Pipe Minimum Thickness	Geosynthetic Material - Type G (Pay Item)	(*) End Sections		Applicable Backfill
				In	Bid Item	LF							Begin	End	
								In	Type		In	SY	EA	EA	
CB3		CB1		15	Pipe Conc. Reinf. CL III-Storm Drain	82'	Reinforced Concrete Pipe - Class III (barrel length = 82 LF)	15							Standard D-714-27
CB1		1+19	46' Rt	18	Pipe Corr. Steel (Extension)	9'	Corrugated Steel Pipe	18	Z, A, P	2	0.064				Standard D-714-27
1+92	49' Lt	CB2		18	Pipe Corr. Steel (Extension)	17'	Corrugated Steel Pipe	18	Z, A, P	2	0.064				Standard D-714-27
CB2		29	67' Rt	24	Pipe Corr. Steel (Extension)	20'	Corrugated Steel Pipe	24	Z, A, P	2	0.064				Standard D-714-27
3+43	11' Lt	3+85	22' Rt	18	Pipe Corr. Steel (Extension)	52'	Corrugated Steel Pipe	18	Z, A, P	2	0.064		FES	FES	Standard D-714-27
5+51	26' Rt	5+97	15' Lt	18	Pipe Corr. Steel (Extension)	60'	Corrugated Steel Pipe	18	Z, A, P	2	0.064		FES	FES	Standard D-714-27
10+49	7' Lt	10+66	17' Rt	17"x13"	Pipe Corr. Steel Arch (Extension)	30'	Corrugated Steel Pipe	17"x13"	Z, A, P	2	0.064		FES	FES	Standard D-714-27
16+50	15' Rt	16+50	7' Lt	24	Pipe Corr. Steel (Extension)	22'	Corrugated Steel Pipe	24	Z, A, P	2	0.064		FES	FES	Standard D-714-27
16+60	15' Rt	16+60	7' Lt	24	Pipe Corr. Steel (Extension)	22'	Corrugated Steel Pipe	24	Z, A, P	2	0.064		FES	FES	Standard D-714-27

Corrugations: 2 = 2-2/3"x1/2"
3 = 3"x1"
5 = 5"x1"

Coatings: Z = Zinc
A = Aluminum
P = Polymeric (over Zinc or Aluminum)

Spiral Ribs: 3/4 = 3/4"x3/4"@7-1/2"
1 = 3/4"x1"@11-1/2"

(*) End sections are measured and paid for separately for pipe extensions.
FES = Flared End Section
TES = Traversable End Section

CB1
1+11 - 12 Lt
INLET SPECIAL CATCH BASIN
9IN BEEHIVE 72IN
Grate = 1110.00
Inv N = 15" 1106.50
Inv S = 18" 1107.48
Inv W = 18" 1106.50
Base = 1103.25
H Dist = 6'

CB2
2+09 - 11 Lt
INLET SPECIAL CATCH BASIN
9IN BEEHIVE 48IN
Grate = 1110.50
Inv S = 24" 1107.82
Inv W = 18" 1107.82
Base = 1103.75
H Dist = 6'

CB3
0+32 - 14 Lt
INLET TYPE II - "D" Style Grate
Grate = 1110.95
Inv S = 15" 1107.00
Base = 1104.20
H Dist = 6'

Allowable Pipes List

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers

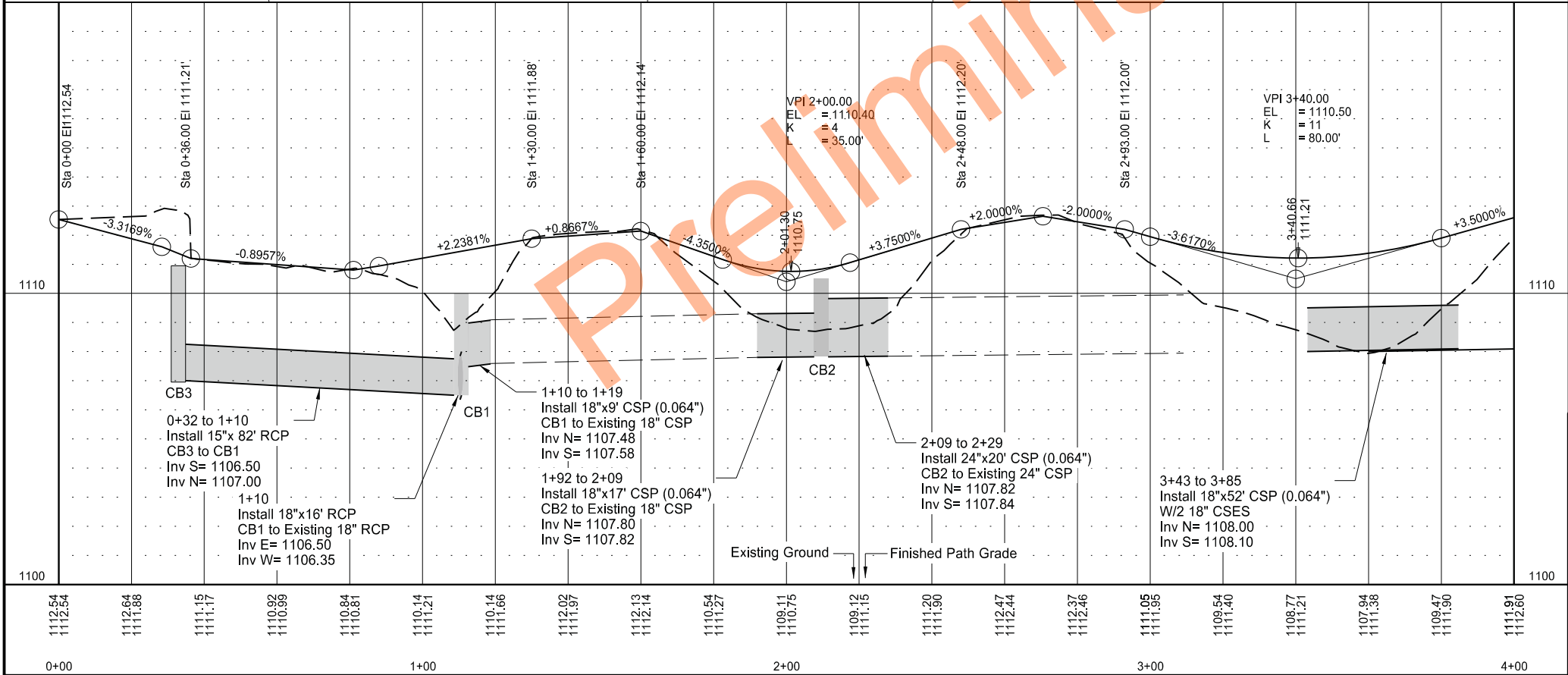
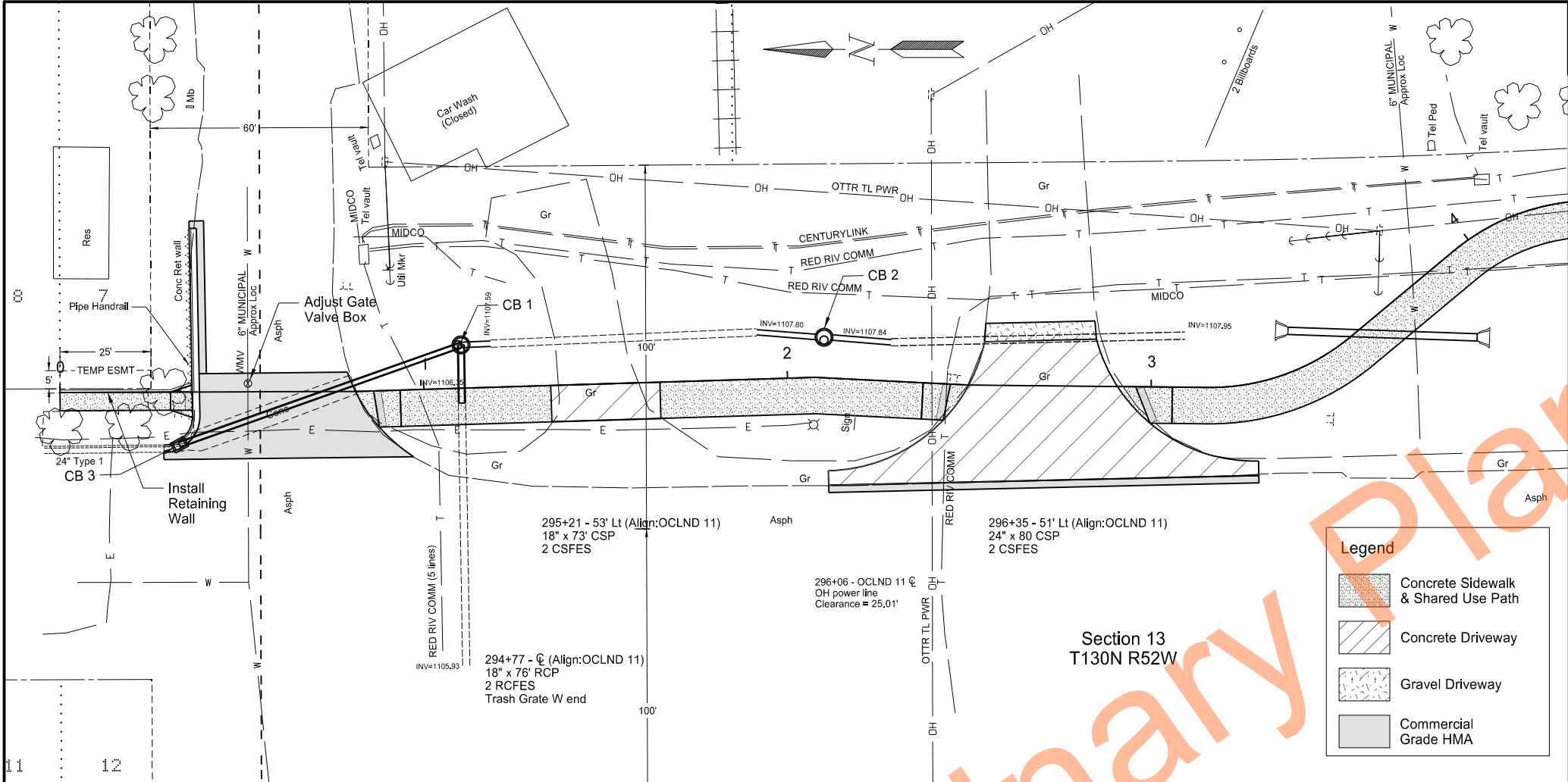
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P.E. 3523

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ENGINEER

NORTH DAKOTA



		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153	60	1
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN			
0+33	15' RT	to	1+11 12' LT	LF	82
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN			
1+10		Existing 24" RCP to CB 1			LF 16
714	5015	PIPE CORR STEEL .064IN 18IN			
1+10	to	1+19	CB1 to Existing 18" CSP	LF	9
1+92	to	2+09	Existing 18" CSP to CB2	LF	17
3+43	11' LT	to	3+85 22' RT	LF	52
714	5035	PIPE CORR STEEL .064IN 24IN			
2+09	to	2+29	CB2 to Existing 24' CSP	LF	20
714	5810	END SECT COOR STEEL .064IN 18IN			
3+43	LT			EA	1
3+85	RT			EA	1
722	3510	INLET-TYPE II			
0+33	15' RT			EA	1
722	3730	INLET SPECIAL CATCH BASIN 9IN BEEHIVE 48IN			
2+09	11' LT			EA	1
722	3792	INLET SPECIAL CATCH BASIN 9IN BEEHIVE 72IN			
1+11	12' LT			EA	1
722	6140	ADJUST GATE VALVE BOX			
0+52	LT			EA	1

Plan and Profile

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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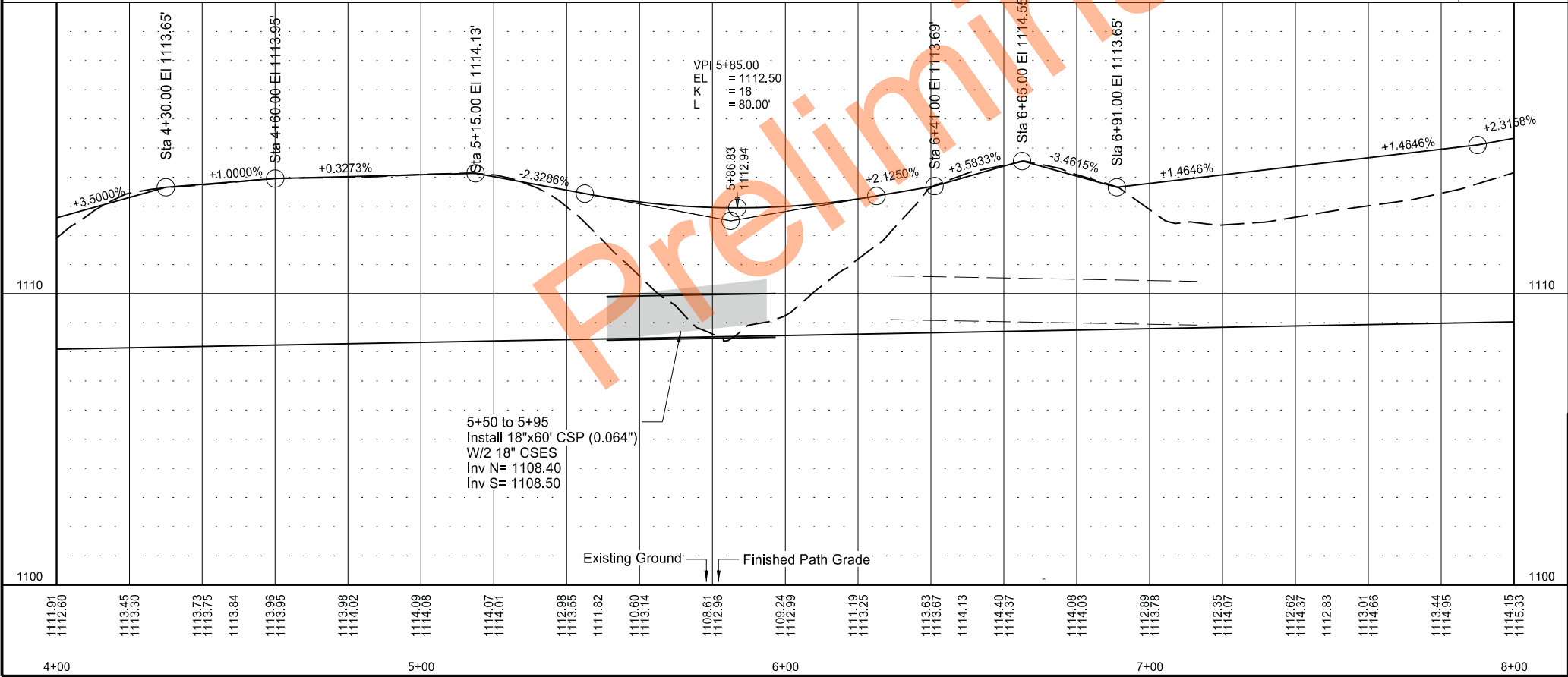
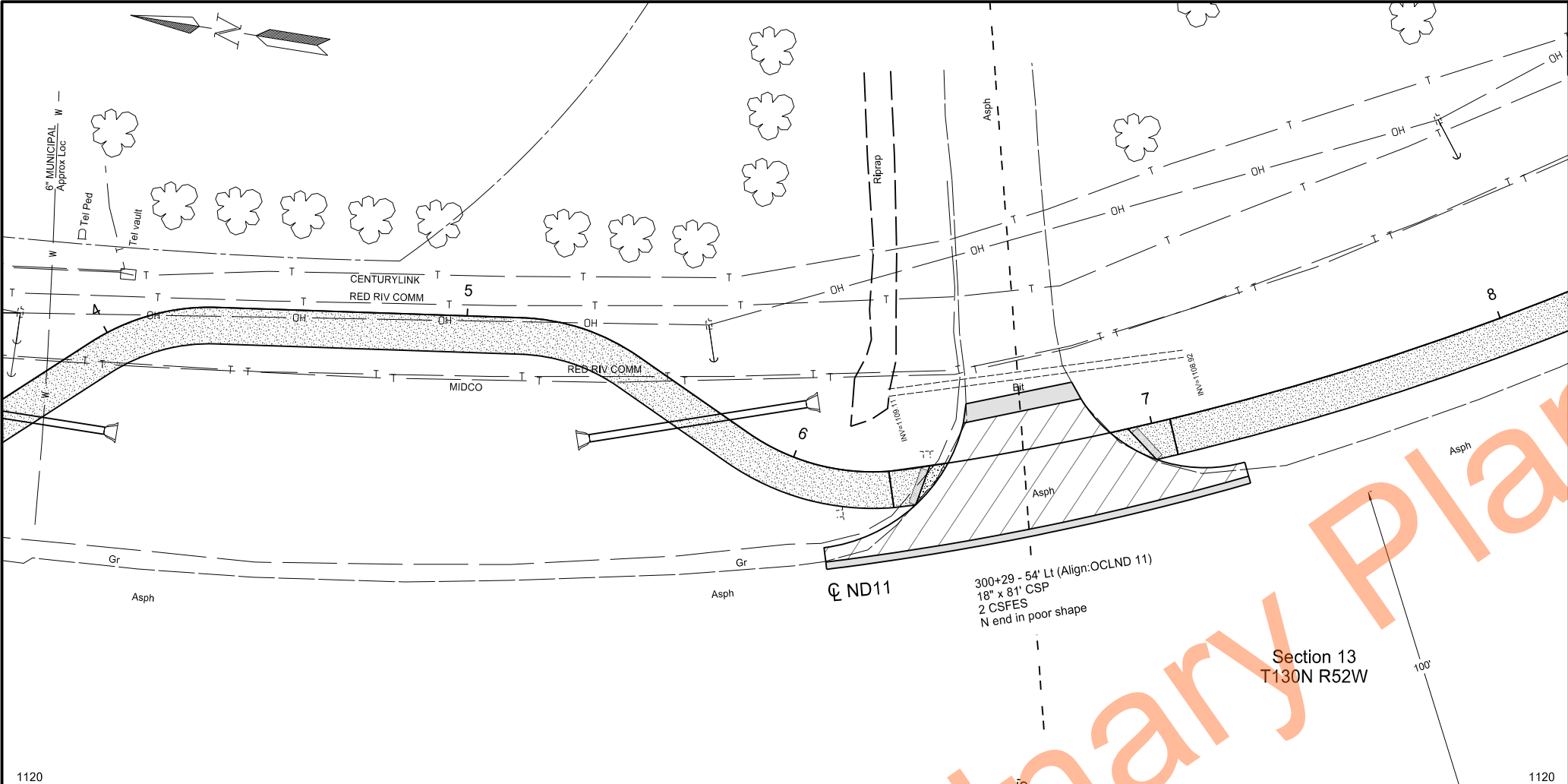
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Legend

- Concrete Sidewalk & Shared Use Path
- Concrete Driveway
- Commercial Grade HMA

STATE		PROJECT NO.		SECTION NO.	SHEET NO.
ND		NDS-SS-8-011(053)153		60	2

SPEC	CODE	BID ITEM	UNIT	QTY
714	5015	PIPE CORR STEEL .064IN 18IN		
5+51	26' RT	to 5+97 15' LT	LF	60
714	5810	END SECT COOR STEEL .064IN 18IN		
5+51	RT		EA	1
5+97	LT		EA	1

Plan and Profile

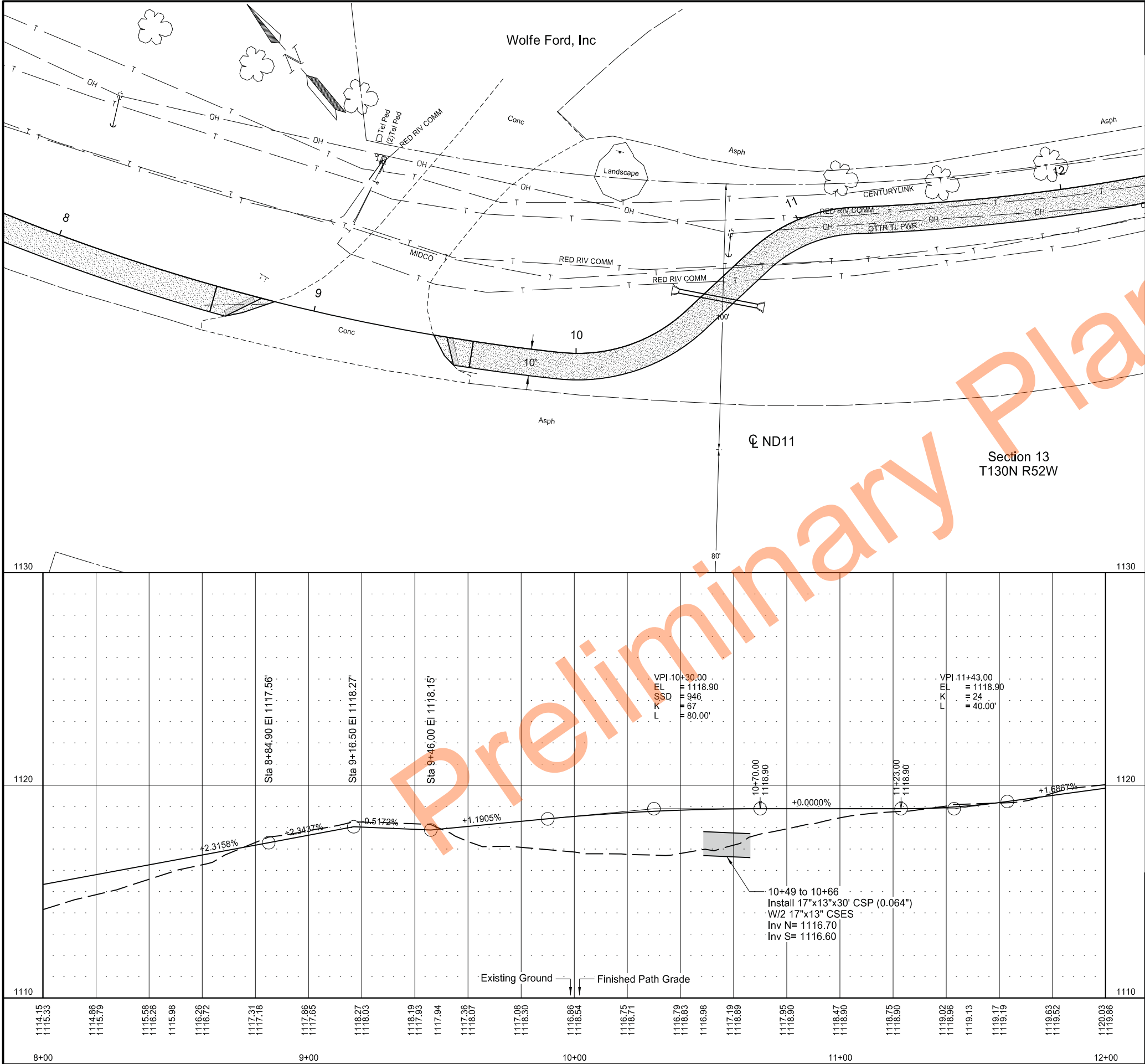
From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

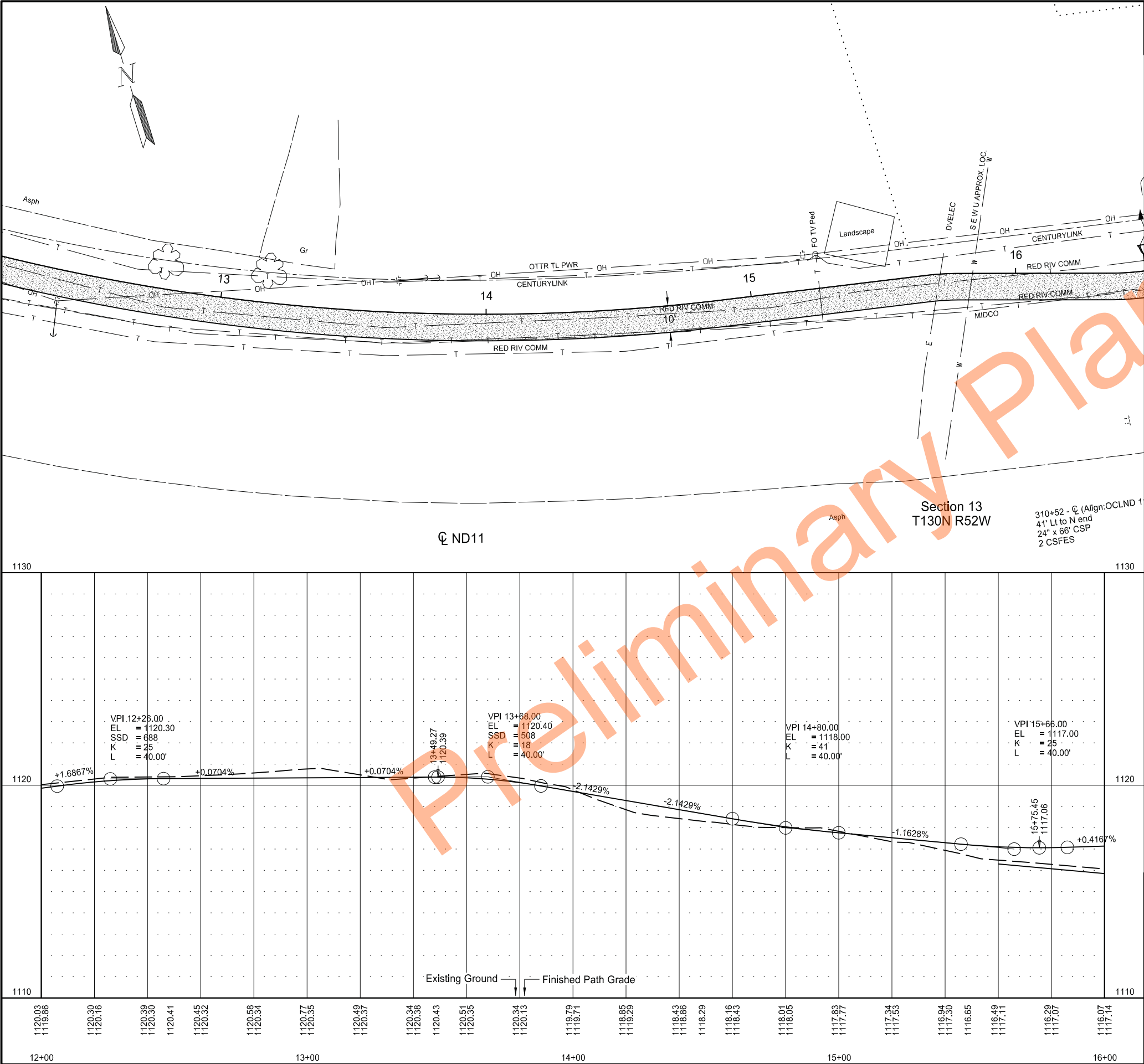
Richland County, North Dakota

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P.E. 3523
8/26/2026
NORTH DAKOTA ENGINEER



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	60	3

SPEC	CODE	BID ITEM	UNIT	QTY
714	5080	PIPE CORR STEEL .064IN ARCH 17IN X 13IN	LF	30
10+49	7' LT	to 10+66 17' RT		
714	5859	END SECT COOR STEEL .064IN ARCH 17IN X 13IN	EA	1
10+49	LT		EA	1
10+66	RT			



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	60	4

Plan and Profile

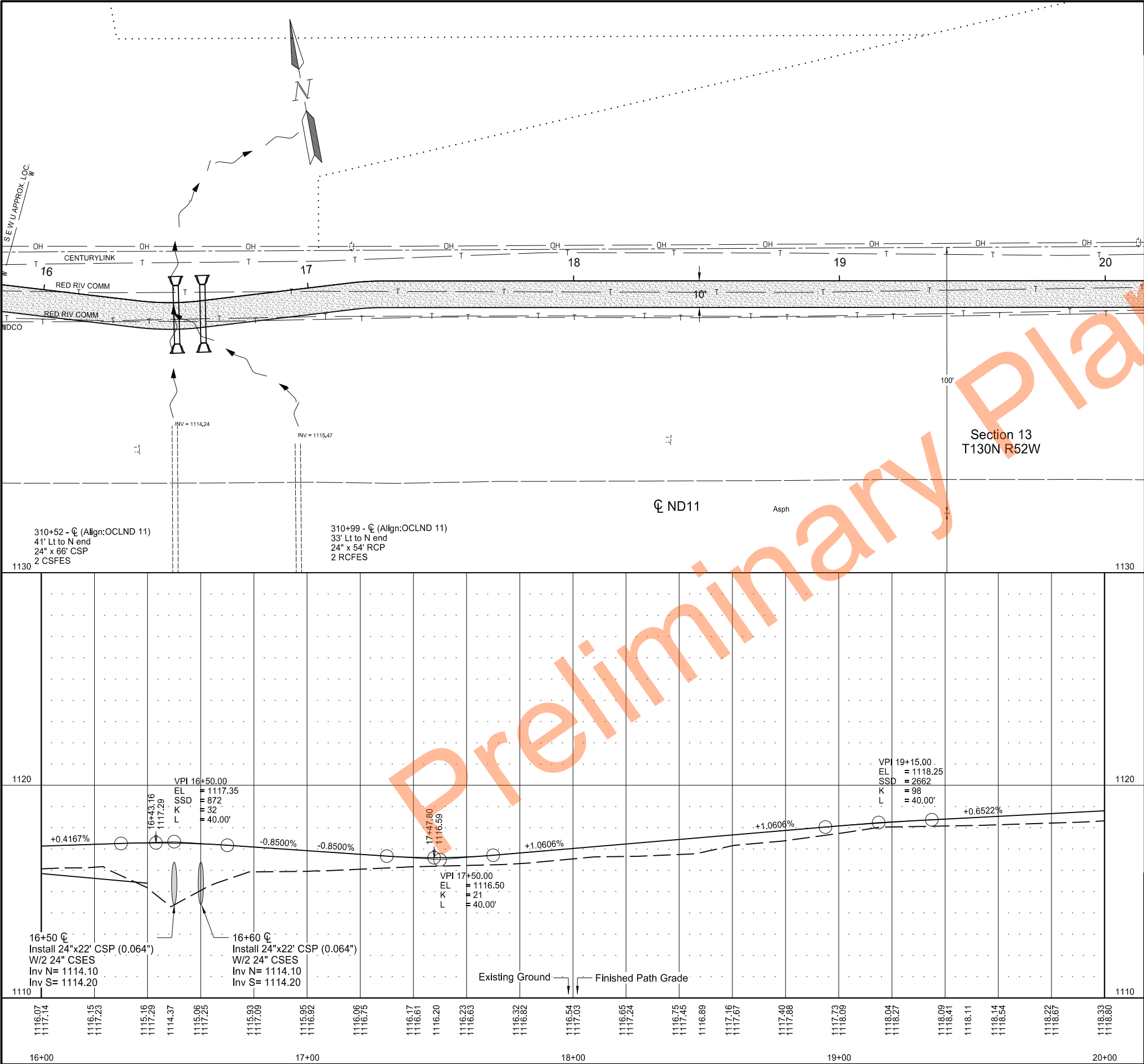
From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153	60	5

SPEC	CODE	BID ITEM	UNIT	QTY
714	5035	PIPE CORR STEEL .064IN 24IN		
16+50	CL		LF	22
16+60	CL		LF	22
714	5820	END SECT COOR STEEL .064IN 24IN		
16+50	15' RT		EA	1
16+50	7' LT		EA	1
16+60	15' RT		EA	1
16+60	7' LT		EA	1

Section 13
T130N R52W

CL ND11
Asph

310+52 - CL (Align: OCLND 11)
41' Lt to N end
24" x 66' CSP
2 CSFES

310+99 - CL (Align: OCLND 11)
33' Lt to N end
24" x 54' RCP
2 RCFES

Legend

Concrete Sidewalk & Shared Use Path

Plan and Profile

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
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8/26/2026
ENGINEER
NORTH DAKOTA

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	60	6

Legend

Concrete Sidewalk
& Shared Use Path

Plan and Profile

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	75	1

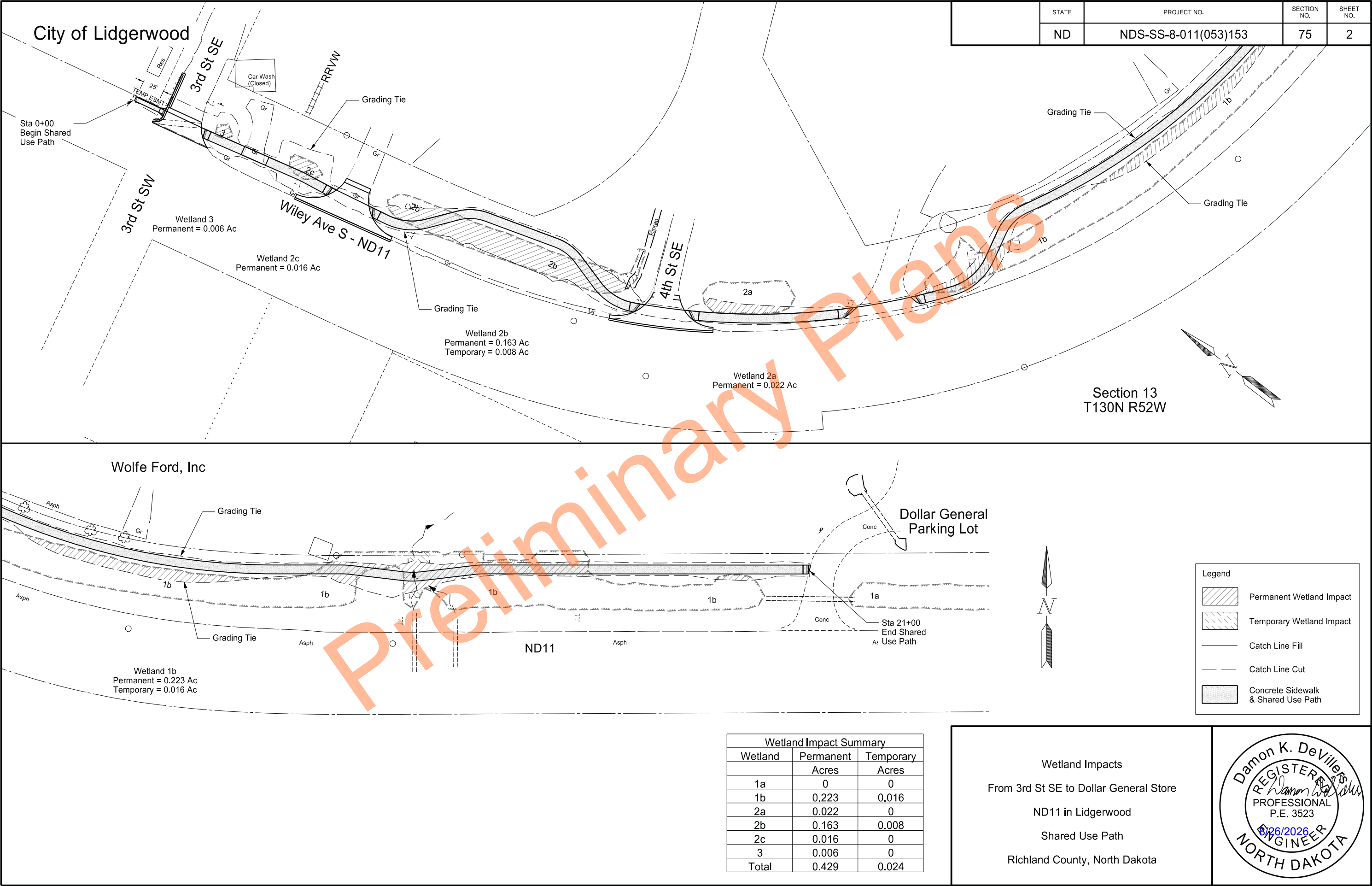
Wetland Impact Table																			
Wetland Number	Location	Wetland Feature	USACE Jurisdictional Wetlands ¹	Wetland Impacts Acre(s)		USFWS Easement Impacts Acre(s)		Wetland Mitigation											
								Mitigation Required			USACE/11990 Bank		11990 Bank		USFWS Bank		Onsite		
				Temp.	Perm.	Temp.	Perm.	EO 11990	USACE	USFWS	Location	Acre(s)	Location	Acre(s)	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #
1a	Sec.13, T130N, R52W	Created	No	0	0			N	N	N									
1b	Sec.13, T130N, R52W	Created	No	0.016	0.223			N	N	N									
2a	Sec.13, T130N, R52W	Created	No	0	0.022			N	N	N									
2b	Sec.13, T130N, R52W	Created	No	0.008	0.163			N	N	N									
2c	Sec.13, T130N, R52W	Created	No	0	0.016			N	N	N									
3	Sec.13, T130N, R52W	Created	No	0	0.006			N	N	N									
				0.024	0.429							0		0		0		0	0

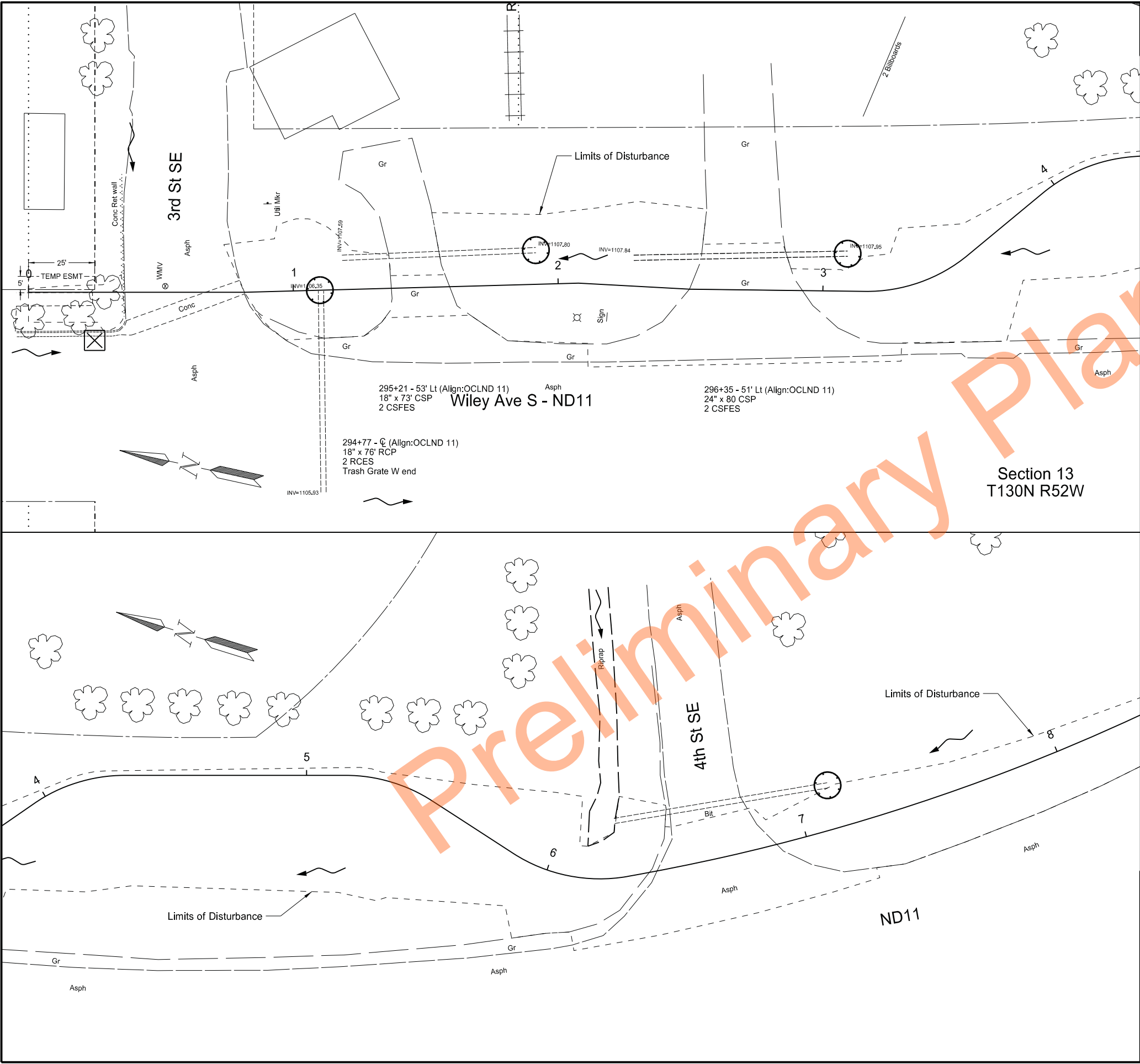
Impact Summary Table			
Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	Total (Acres)	Wetland Type	Total (Acres/Lf)
Natural/JD	0	Temporary JD	0.024
Natural/Non-JD	0	Non-JD Temporary	0
Artificial/JD	0.429	Permanent JD > 0.10	0
Artificial /Non-JD	0	Permanent OW	0
Total	0.429	Temporary OW	0

Mitigation Summary Table					
	Location	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
USACE Only	Onsite	0			
EO 11990 Only	Onsite and Vollrath16/17	0	0		
USACE/11990	Onsite	0			
USFWS	Vollrath 15/21 UFWS Easement				0
Total		0	0	0	0



Wetlands Mitigation and Environmental
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153	76	1

SPEC	CODE	BID ITEM	UNIT	QTY
261	0112	FIBER ROLLS 12IN		
1+10	RT	INLET PROTECTION	LF	20
1+92	LT	INLET PROTECTION	LF	20
3+09	LT	INLET PROTECTION	LF	20
7+14	LT	INLET PROTECTION	LF	20

SPEC	CODE	BID ITEM	UNIT	QTY
261	0113	REMOVE FIBER ROLLS 12IN		
1+10	RT	INLET PROTECTION	LF	20
1+92	LT	INLET PROTECTION	LF	20
3+09	LT	INLET PROTECTION	LF	20
7+14	LT	INLET PROTECTION	LF	20

SPEC	CODE	BID ITEM	UNIT	QTY
708	1540	INLET PROTECTION - SPECIAL		
0+32	14' RT	INLET PROTECTION	EA	1

SPEC	CODE	BID ITEM	UNIT	QTY
708	1541	REMOVE INLET PROTECTION - SPECIAL		
0+32	14' RT	INLET PROTECTION	EA	1

Legend

- Inlet Protection 12" Fiber Roll
- Inlet Protection - Special

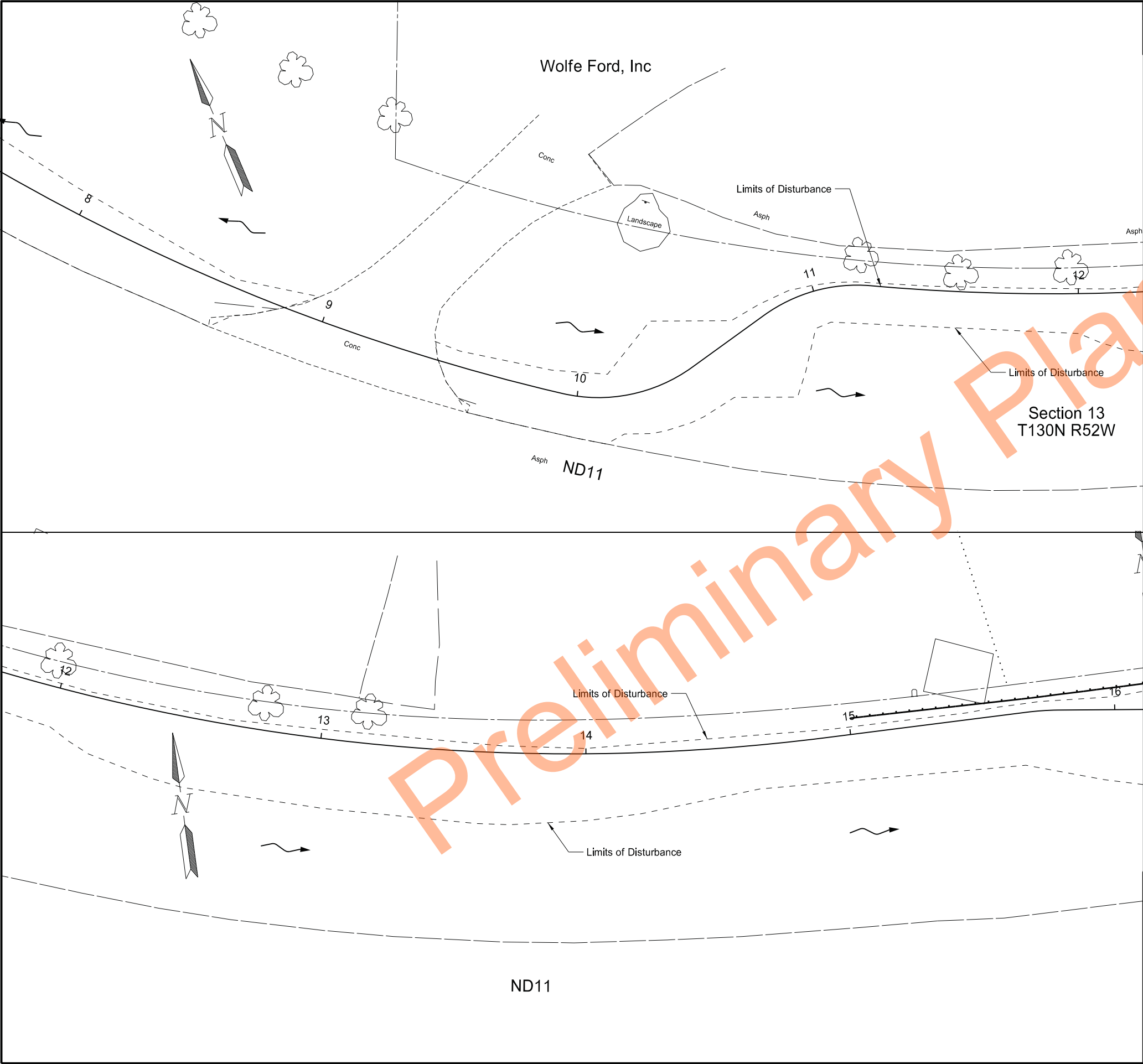
Temporary Erosion Control

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	76	2

SPEC	CODE	BID ITEM	UNIT	QTY
261	0112	FIBER ROLLS 12IN		
15+00	to	16+00 LT ALONG RIGHT OF WAY	LF	100

SPEC	CODE	BID ITEM	UNIT	QTY
261	0113	REMOVE FIBER ROLLS 12IN		
15+00	to	16+00 LT ALONG RIGHT OF WAY	LF	100

Legend

12" Fiber Roll

Temporary Erosion Control

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers

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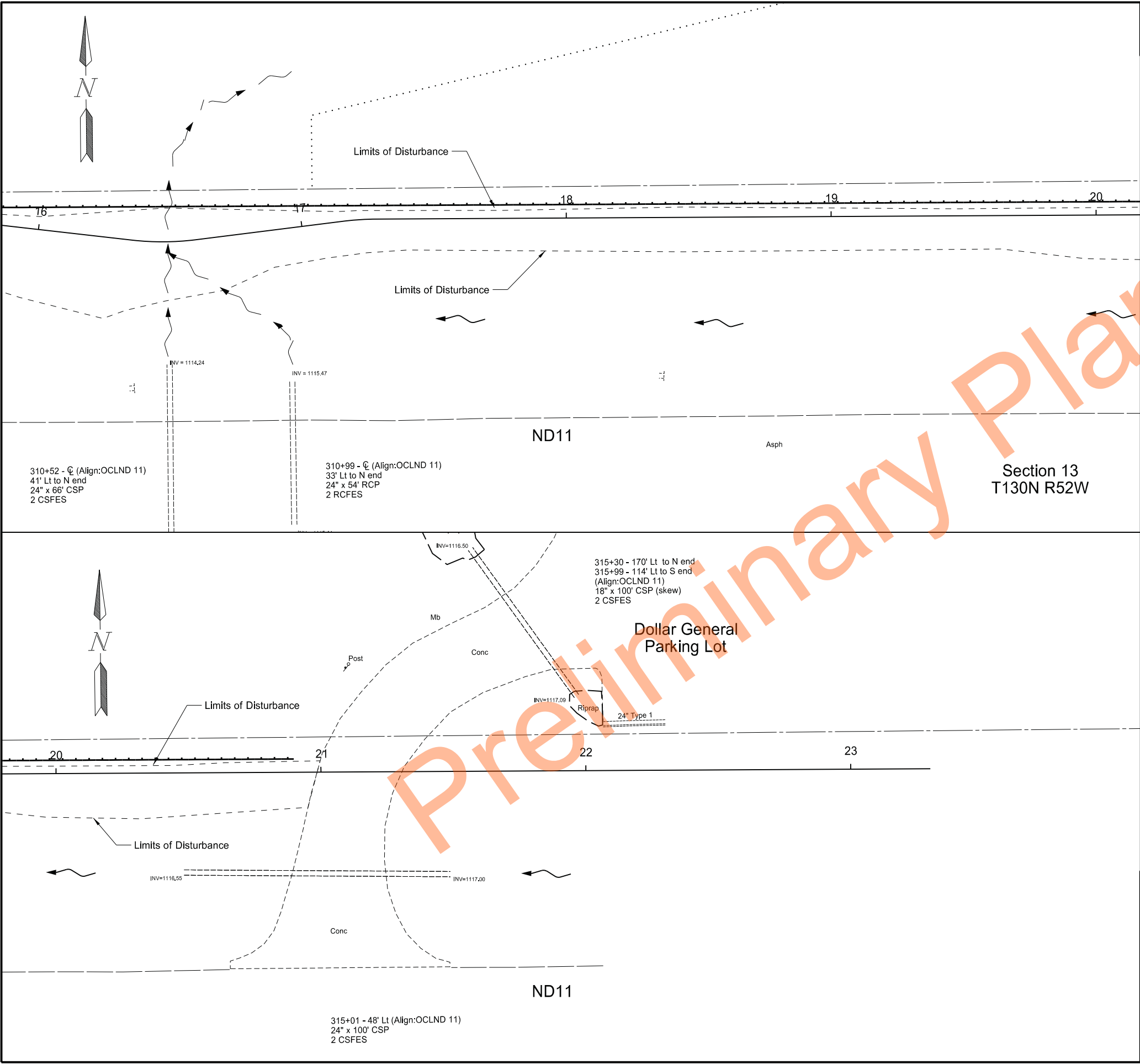
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P.E. 3523

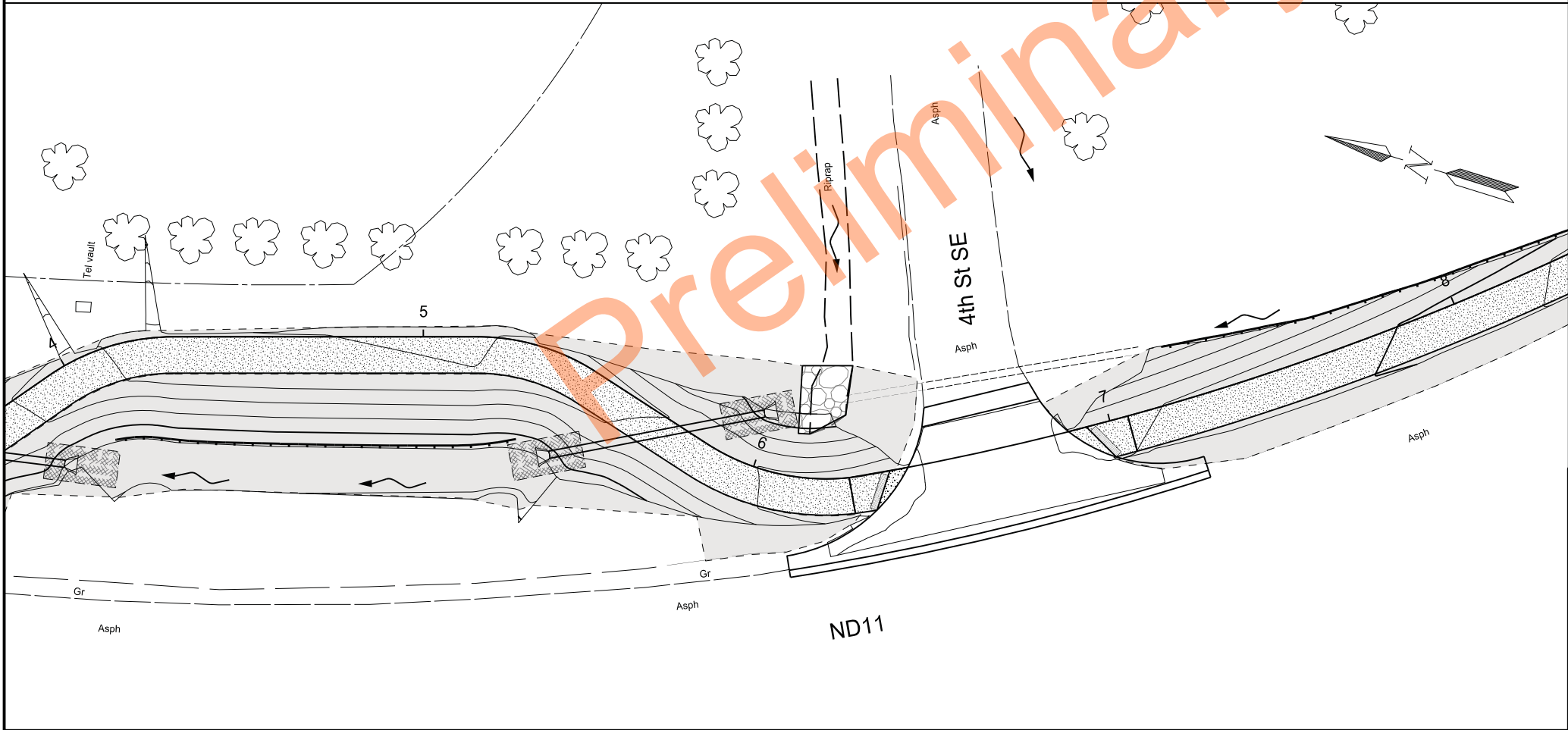
8/26/2026

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NORTH DAKOTA



		STATE	PROJECT NO.		SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153		76	3
SPEC CODE		BID ITEM			UNIT	QTY
261 0112		FIBER ROLLS 12IN				
16+00	to	20+90 LT ALONG RIGHT OF WAY			LF	490
SPEC CODE		BID ITEM			UNIT	QTY
261 0113		REMOVE FIBER ROLLS 12IN				
16+00	to	20+90 LT ALONG RIGHT OF WAY			LF	490
ms						
Legend 12" Fiber Roll						
Temporary Erosion Control From 3rd St SE to Dollar General Store ND11 in Lidgerwood Shared Use Path Richland County, North Dakota					Damon K. DeVillers REGISTERED PROFESSIONAL P.E. 3523 8/26/2026 ENGINEER NORTH DAKOTA	



SPEC	CODE	BID ITEM	UNIT	QTY
251	0300	SEEDING CLASS III		
0+00	to	0+36	ACRE	0.02
0+74	to	1+38	ACRE	0.06
1+53	to	2+56	ACRE	0.03
2+88	to	4+00	ACRE	0.09
4+00	to	6+50	ACRE	0.14
6+83	to	8+00	ACRE	0.08

SPEC	CODE	BID ITEM	UNIT	QTY
253	0201	HYDRAULIC MULCH		
0+00	to	0+36	ACRE	0.02
0+74	to	1+38	ACRE	0.06
1+53	to	2+56	ACRE	0.03
2+88	to	4+00	ACRE	0.09
4+00	to	6+50	ACRE	0.14
6+83	to	8+00	ACRE	0.08

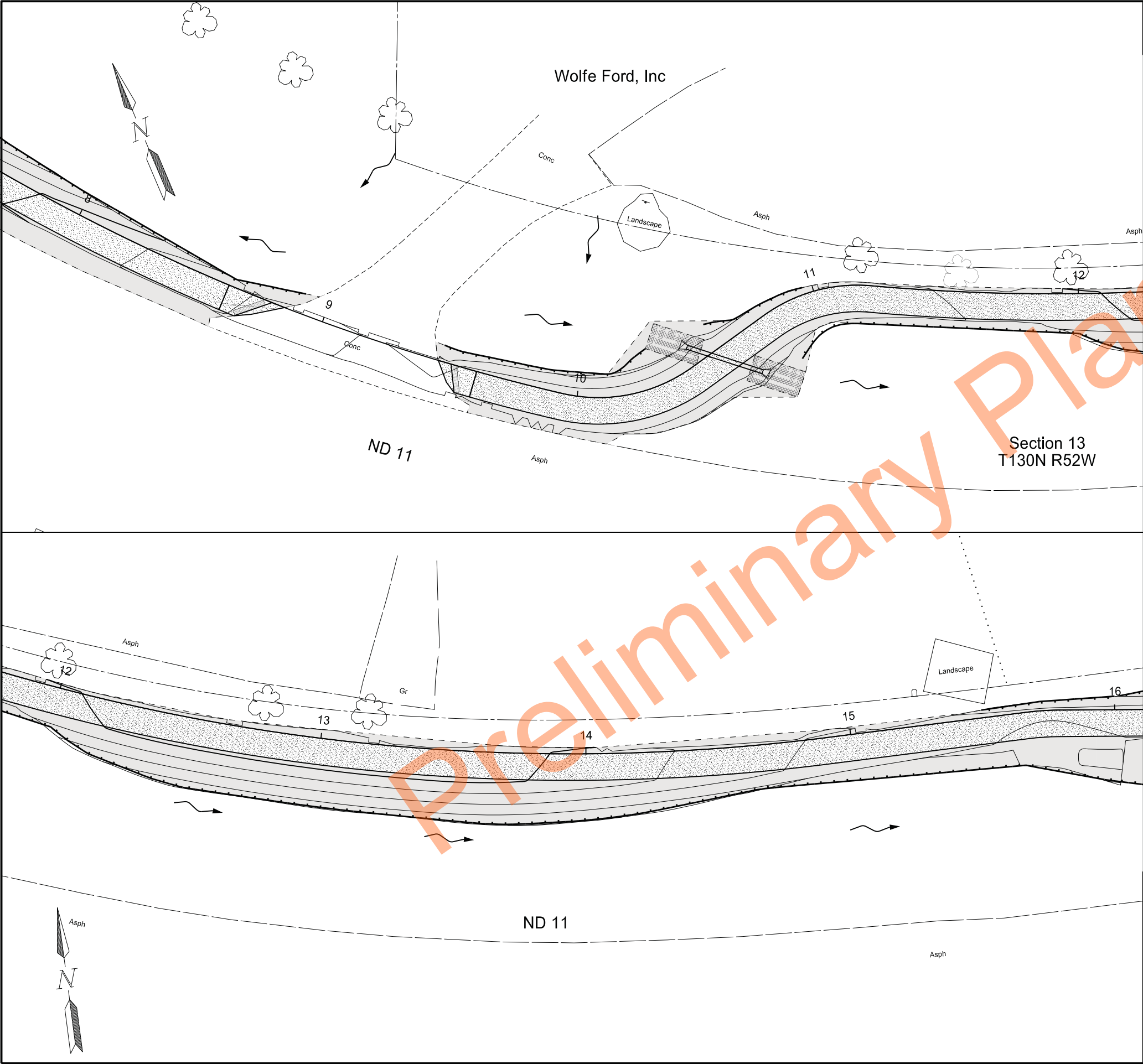
SPEC	CODE	BID ITEM	UNIT	QTY
255	0102	ECB TYPE 2		
0+81	to	1+15 ROAD SLOPE AND INLET	SY	28
2+10	Lt	INLET	SY	12
3+35	to	3+57 CULVERT OUTLET	SY	22
3+78	to	3+92 CULVERT INLET	SY	22
5+43	to	5+61 CULVERT OUTLET	SY	22
5+83	to	6+05 CULVERT INLET	SY	22

SPEC	CODE	BID ITEM	UNIT	QTY
261	0112	FIBER ROLLS 12IN		
4+03	to	5+34 RT CONSTRUCTION LIMITS	LF	110
7+20	to	8+00 LT CONSTRUCTION LIMITS	LF	80

Legend	
	Seeding Class III & Hydraulic Mulch
	ECB Type 2
	Concrete Sidewalk & Shared Use Path
	Inlet Protection 12" Fiber Roll
	12" Fiber Roll

Permanent Erosion Control
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153	77	2

SPEC	CODE	BID ITEM		UNIT	QTY
251	0300	SEEDING CLASS III			
8+00	to	8+96		ACRE	0.05
9+43	to	12+00		ACRE	0.05
12+00	to	16+00		ACRE	0.13

SPEC	CODE	BID ITEM		UNIT	QTY
253	0201	HYDRAULIC MULCH			
8+00	to	8+96		ACRE	0.05
9+43	to	12+00		ACRE	0.05
12+00	to	16+00		ACRE	0.13

SPEC	CODE	BID ITEM		UNIT	QTY
255	0102	ECB TYPE 2			
10+43	to	10+56	CULVERT INLET	SY	22
10+59	to	10+71	CULVERT OUTLET	SY	22

SPEC	CODE	BID ITEM		UNIT	QTY
261	0112	FIBER ROLLS 12IN			
8+00	to	8+90	LT CONSTRUCTION LIMITS	LF	90
9+47	to	10+32	LT CONSTRUCTION LIMITS	LF	80
10+58	to	10+96	LT CONSTRUCTION LIMITS	LF	40
10+83	to	16+00	RT CONSTRUCTION LIMITS	LF	520

Legend

- Seeding Class III & Hydraulic Mulch
- ECB Type 2
- Concrete Sidewalk & Shared Use Path
- 12" Fiber Roll

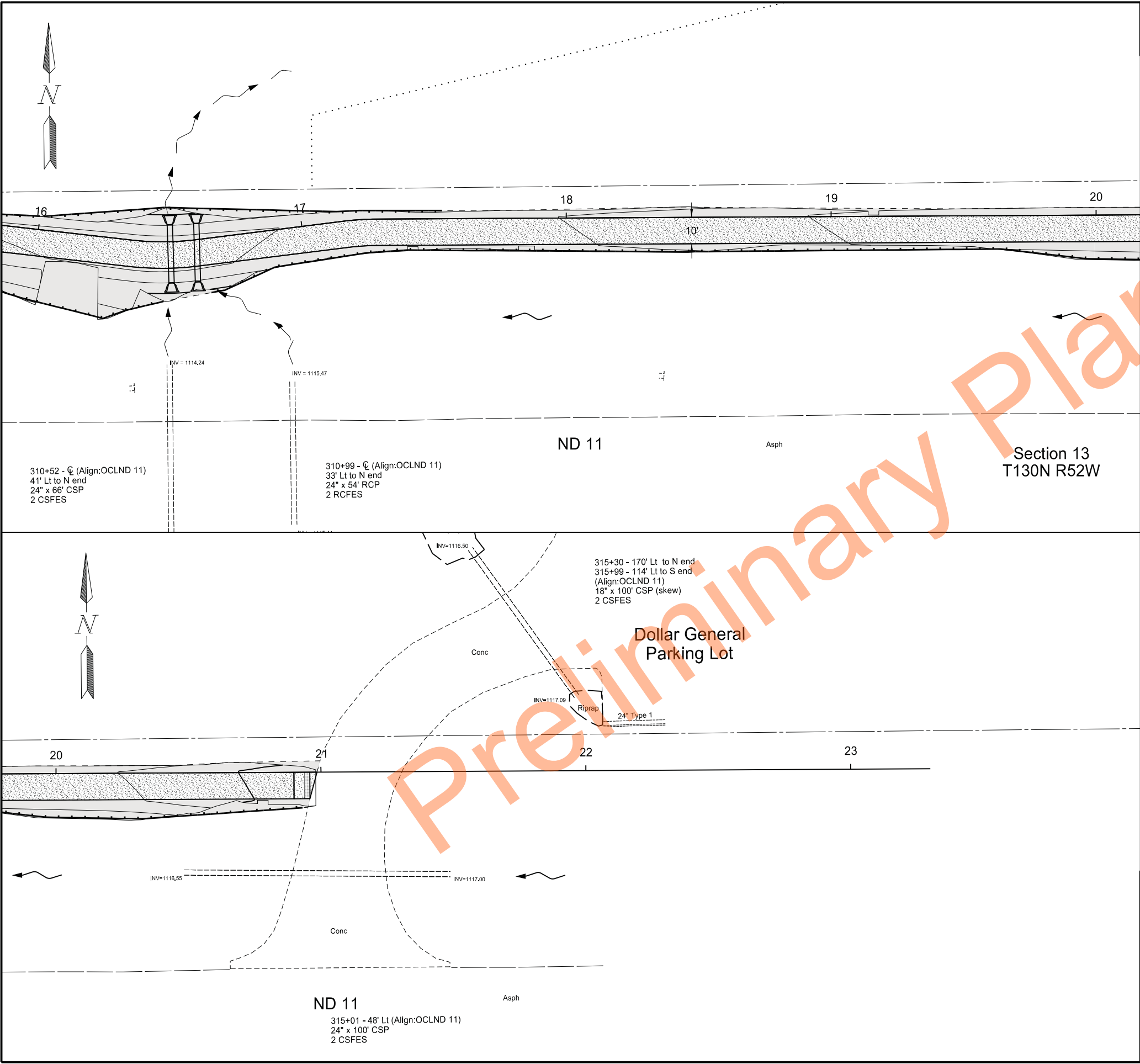
Permanent Erosion Control

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota



		STATE	PROJECT NO.		SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153		77	3

SPEC	CODE	BID ITEM		UNIT	QTY
251	0300	SEEDING CLASS III			
16+00	to	20+00		ACRE	0.10
20+00	to	21+00		ACRE	0.20
SPEC	CODE	BID ITEM		UNIT	QTY
253	0201	HYDRAULIC MULCH			
16+00	to	20+00		ACRE	0.10
20+00	to	21+00		ACRE	0.20
SPEC	CODE	BID ITEM		UNIT	QTY
255	0102	ECB TYPE 2			
16+50		CULVERT INLET AND OUTLET		SY	48
16+60		CULVERT INLET AND OUTLET		SY	48
SPEC	CODE	BID ITEM		UNIT	QTY
261	0112	FIBER ROLLS 12IN			
16+00	to	17+50	LT CONSTRUCTION LIMITS	LF	150
16+00	to	16+47	RT CONSTRUCTION LIMITS	LF	50
16+63	to	20+93	RT CONSTRUCTION LIMITS	LF	430

Legend

Seeding Class III
& Hydraulic Mulch

Concrete Sidewalk
& Shared Use Path

12" Fiber Roll

Permanent Erosion Control

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers

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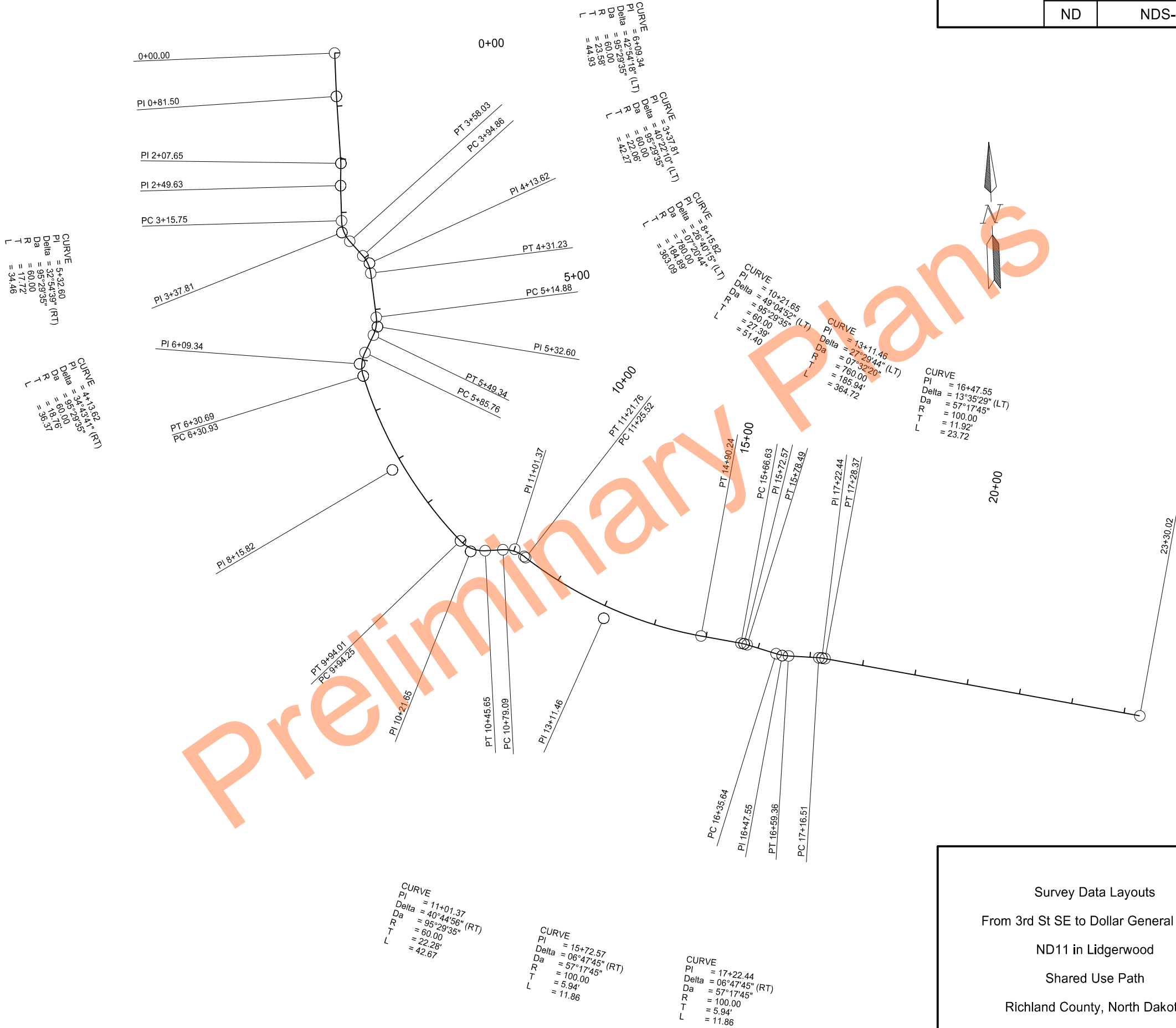
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NORTH DAKOTA

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	82	1



Survey Data Layouts

From 3rd St SE to Dollar General Store

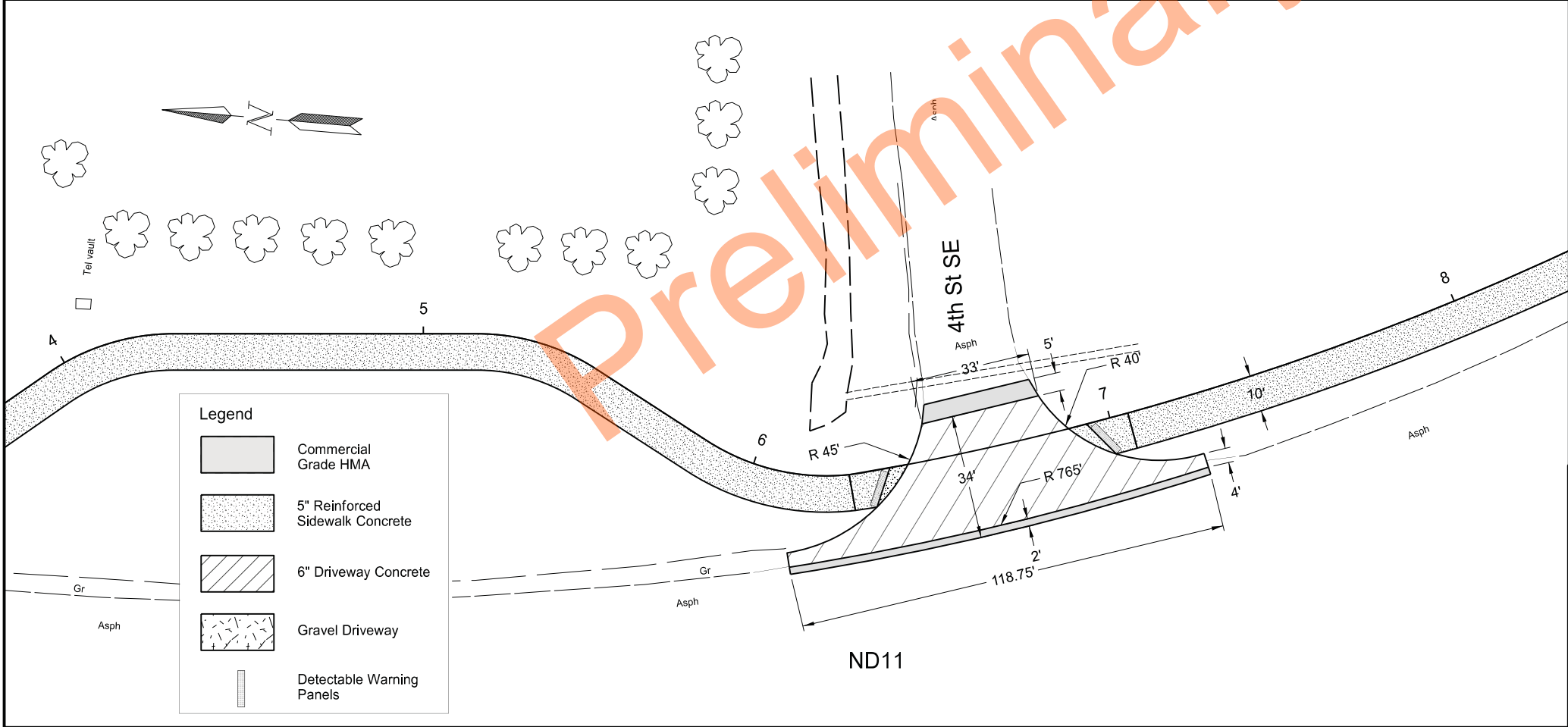
ND11 in Lidgerwood

Shared Use Path

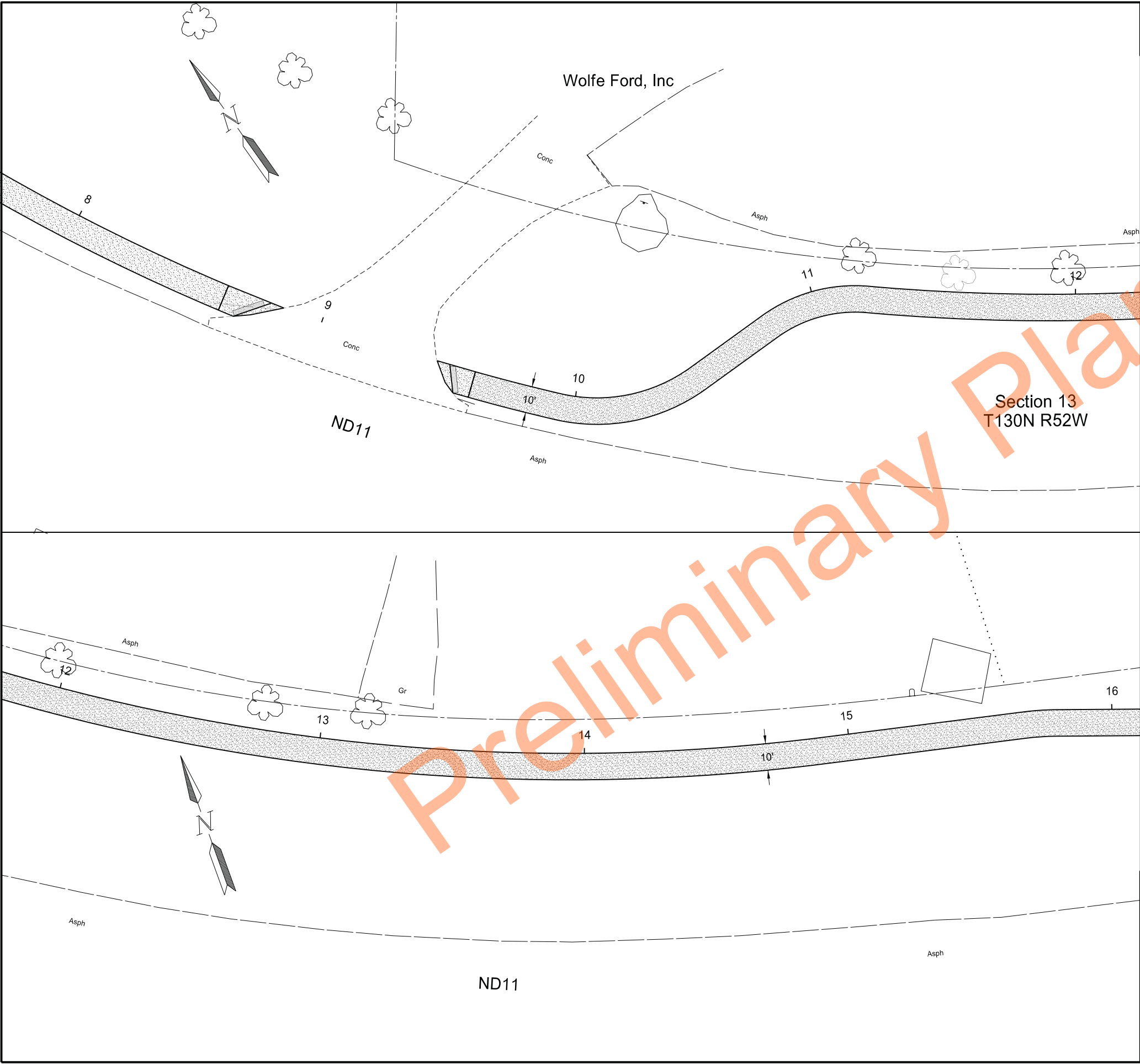
Richland County, North Dakota



						STATE	PROJECT NO.			SECTION NO.	SHEET NO.
						ND	NDS-SS-8-011(053)153			82	2
Alignment Name: Align1 Alignment Description: Shared Use Path											



		STATE	PROJECT NO.		SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153		90	1
302	0120	AGGREGATE BASE COURSE CL 5				
0+00	to	0+36	Sidewalk		TON	7
0+36	to	0+81	3RD ST SE		TON	44
0+81	to	2+50	Shared Use Path		TON	65
2+50	to	2+92	Road Approach		TON	96
2+92	to	6+42	Shared Use Path		TON	134
6+42	to	6+88	Road Approach		TON	81
6+88	to	8+00	Shared Use Path		TON	43
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT				
0+38	to	0+88	3RD ST SE		TON	31
2+20	to	3+20	Patching		TON	6
6+22	to	7+10	Patching		TON	6
6+50	to	6+83	Patching		TON	4
748	0140	CURB & GUTTER-TYPE 1				
0+28	to	0+36	14' RT to 44' LT		LF	65
750	0120	SIDEWALK CONCRETE 5IN REINF				
0+00	to	0+36	Sidewalk		SY	22
0+81	to	1+35	Shared Use Path		SY	57
1+65	to	2+49	Shared Use Path		SY	91
2+92	to	6+42	Shared Use Path		SY	383
6+88	to	7+04	Shared Use Path		SY	120
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED				
1+35	to	1+65	Driveway		SY	34
2+20	to	3+20	Road Approach		SY	257
6+21	to	7+09	Road Approach		SY	229
750	2115	DETECTABLE WARNING PANELS				
0+35					SF	10
0+87					SF	20
2+43					SF	20
2+98					SF	20
6+35					SF	20
6+95					SF	20
930	9543	RETAINING WALL				
0+00	to	0+36			SF	60



		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NDS-SS-8-011(053)153	90	2

302	0120	AGGREGATE BASE COURSE CL 5		
8+00	to	8+84	TON	32
9+46	to	12+00	TON	97
12+00	to	16+00	TON	153

750	0120	SIDEWALK CONCRETE 5IN REINF		
8+00	to	8+84	SY	86
9+46	to	12+00	SY	280
12+00	to	16+00	SY	446

750	2115	DETECTABLE WARNING PANELS		
8+72			SF	24
9+54			SF	20

Section 13
T130N R52W

Legend

- 5" Reinforced Sidewalk Concrete
- Detectable Warning Panels

Paving Layout

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

	STATE	PROJECT NO.		SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153		90	3

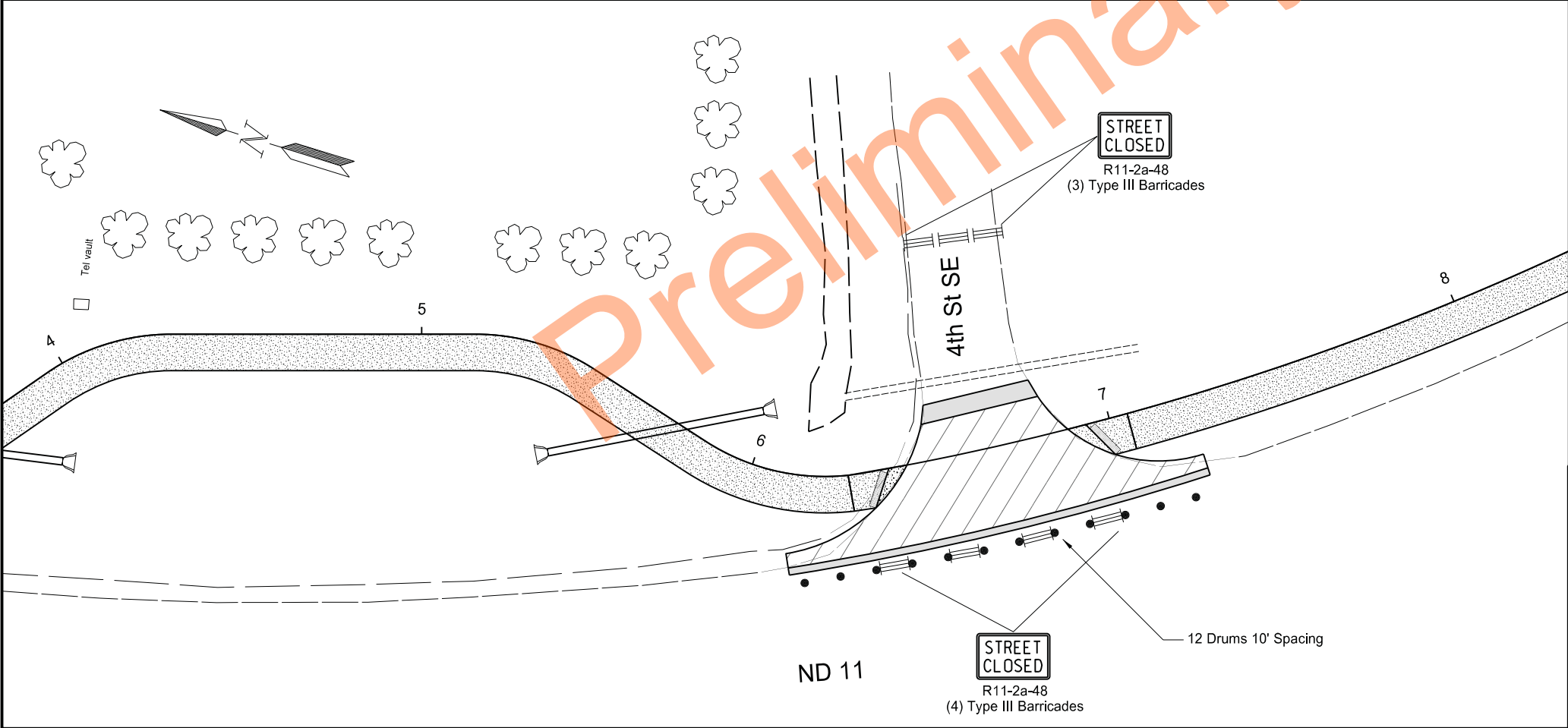
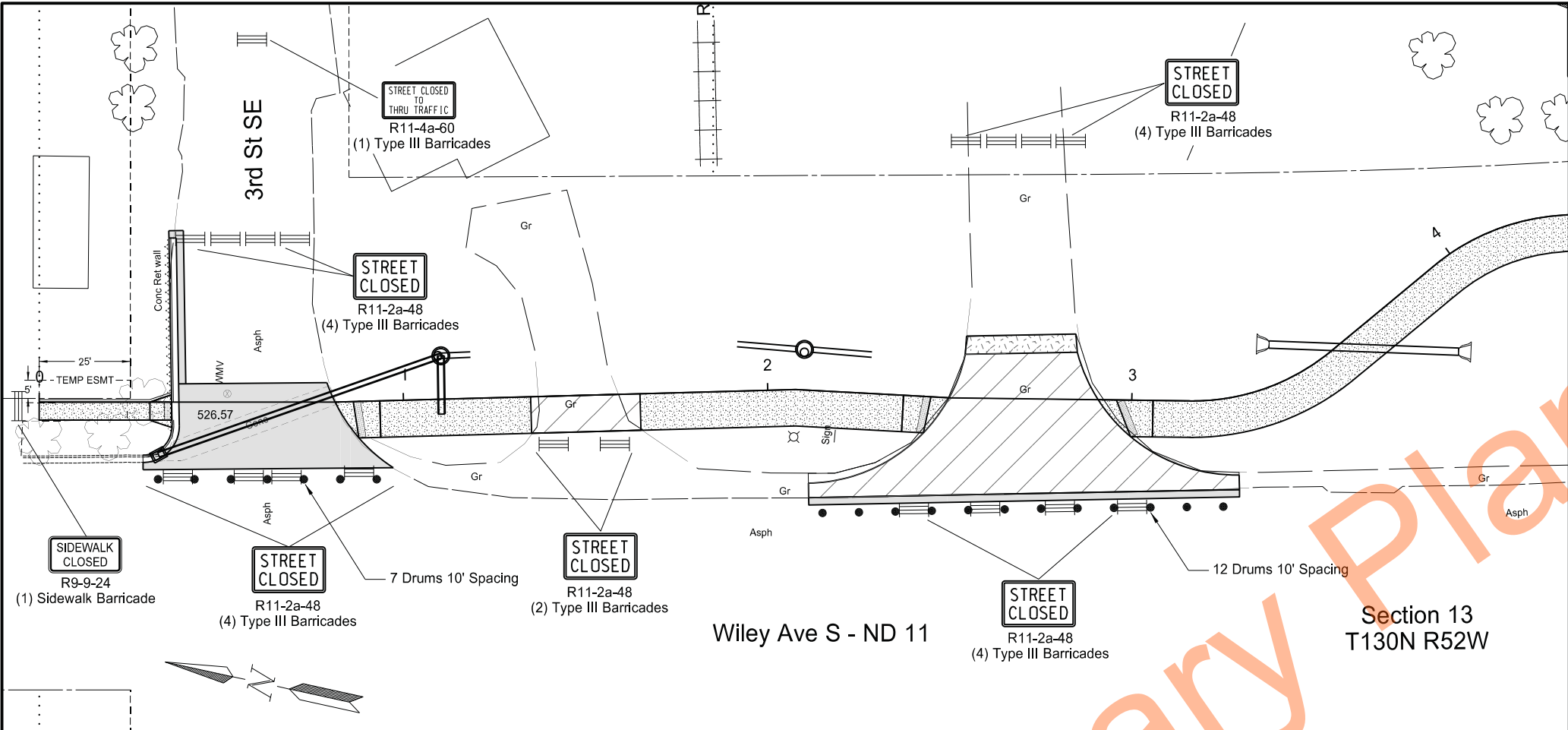
SPEC	CODE	BID ITEM		UNIT	QTY
302	0120	AGGREGATE BASE COURSE CL 5			
16+00	to	20+00		TON	153
20+00	to	21+00		TON	38
750	0120	SIDEWALK CONCRETE 5IN REINF			
16+00	to	20+00		SY	445
20+00	to	21+00		SY	108
750	2115	DETECTABLE WARNING PANELS			
20+95				SF	20

Legend

5" Reinforced
Sidewalk Concrete

Detectable Warning
Panels

Paving Layout From 3rd St SE to Dollar General Store ND11 in Lidgerwood Shared Use Path Richland County, North Dakota	
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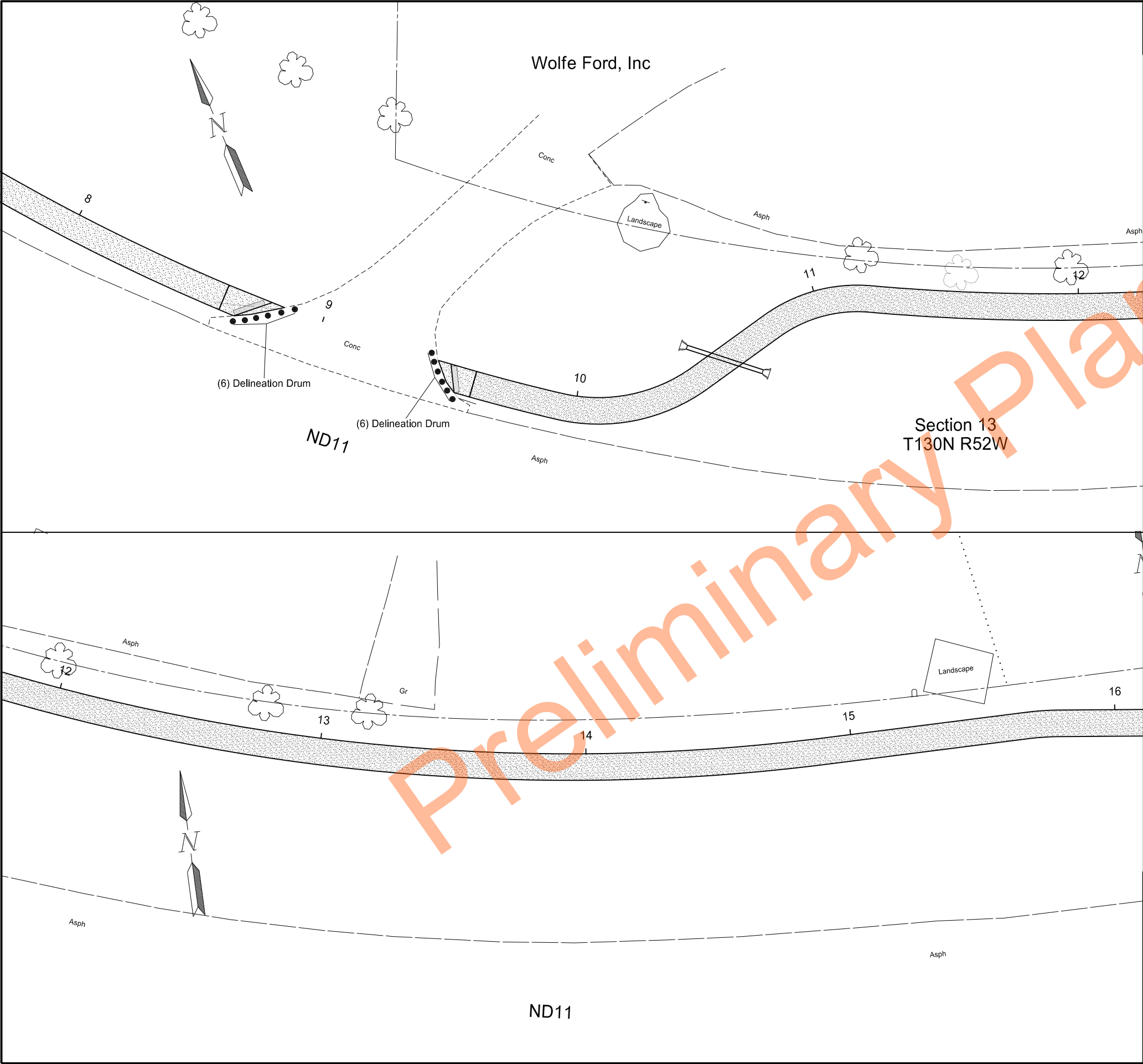


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	100	2

Legend	
	Type III Barricade
	Delineation Drum

Work Zone Traffic Control
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





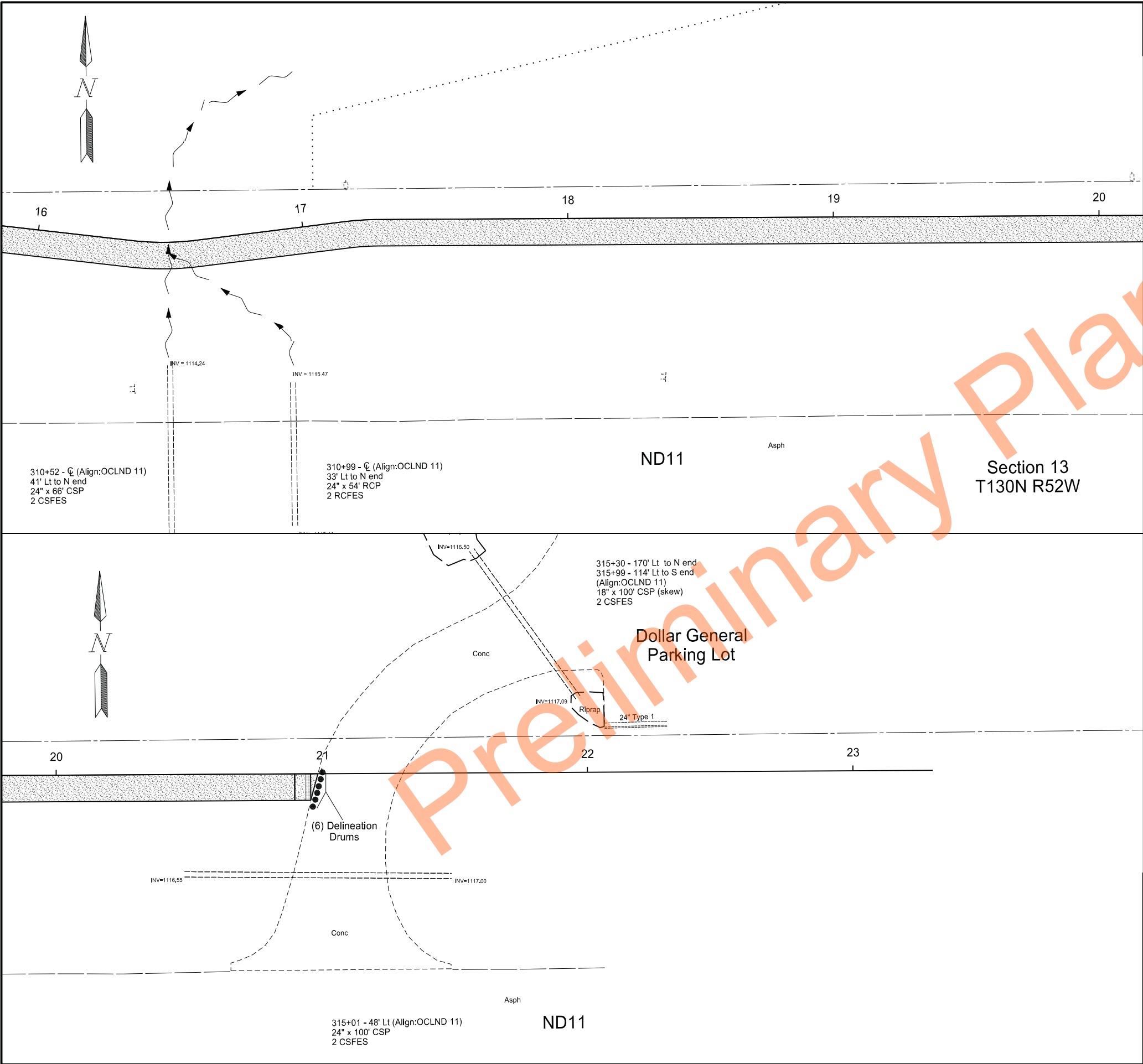
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	100	3

Legend

- Delineation Drum

Work Zone Traffic Control
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	100	4

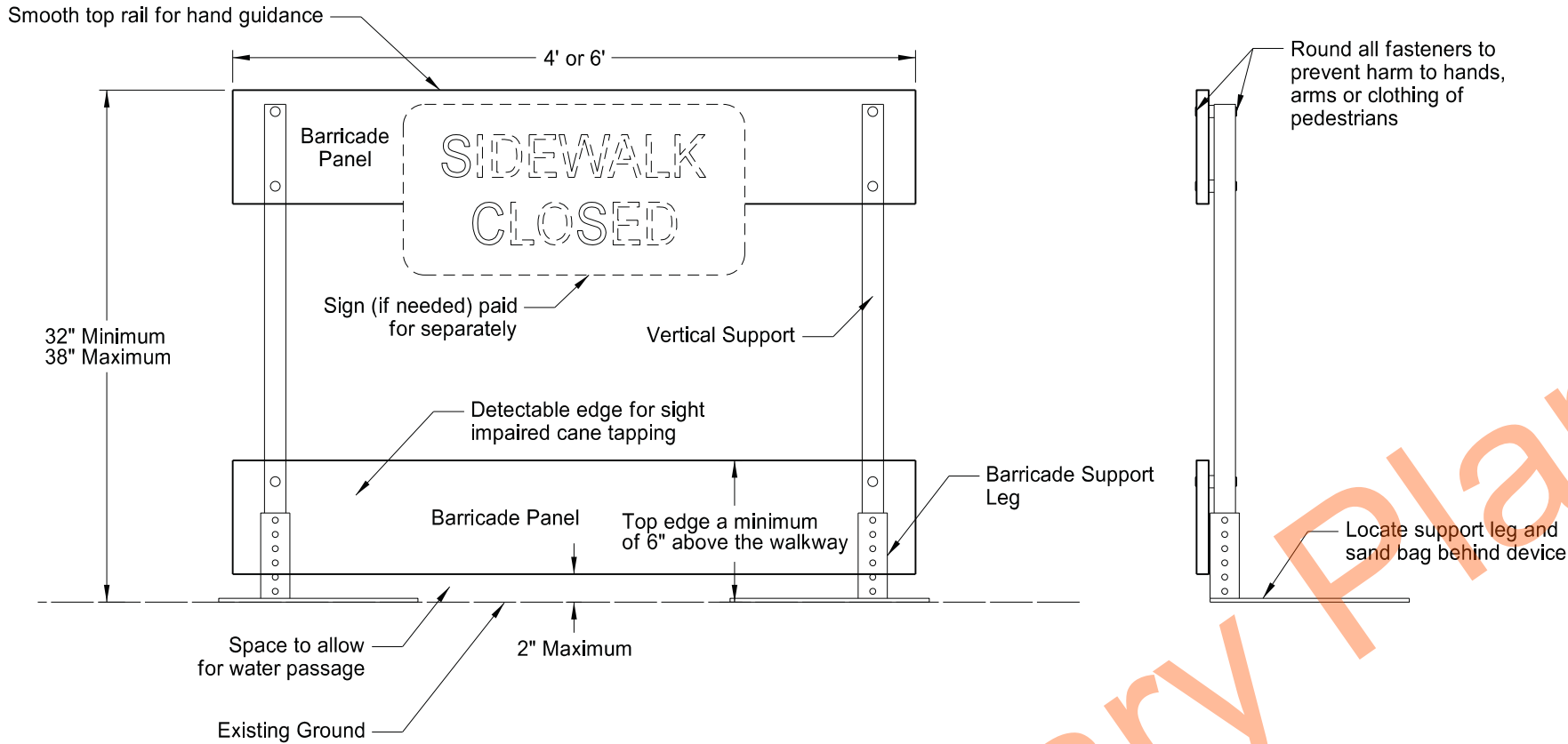
Legend

- Delineation Drums

Work Zone Traffic Control
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota



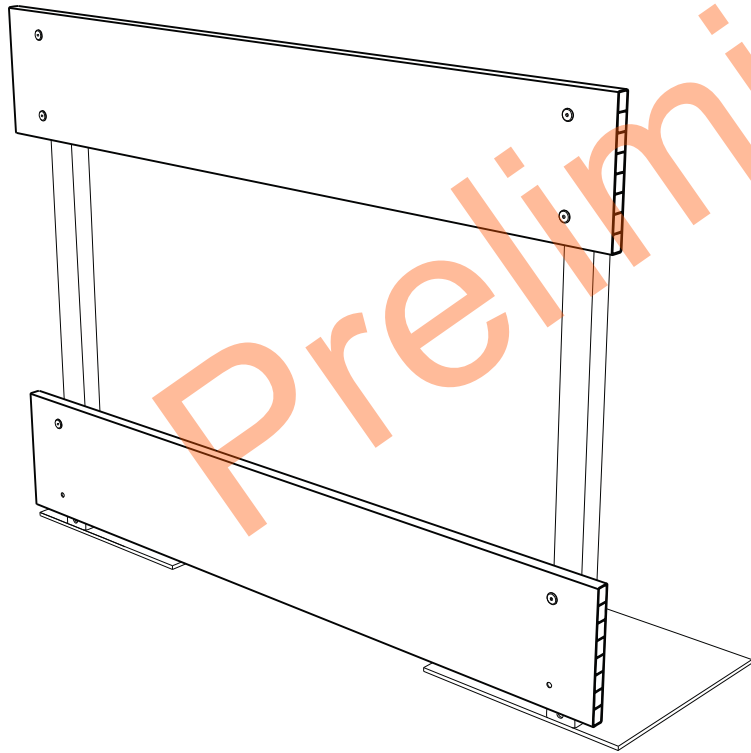
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	ND	NDS-SS-8-011(053)153	100	5



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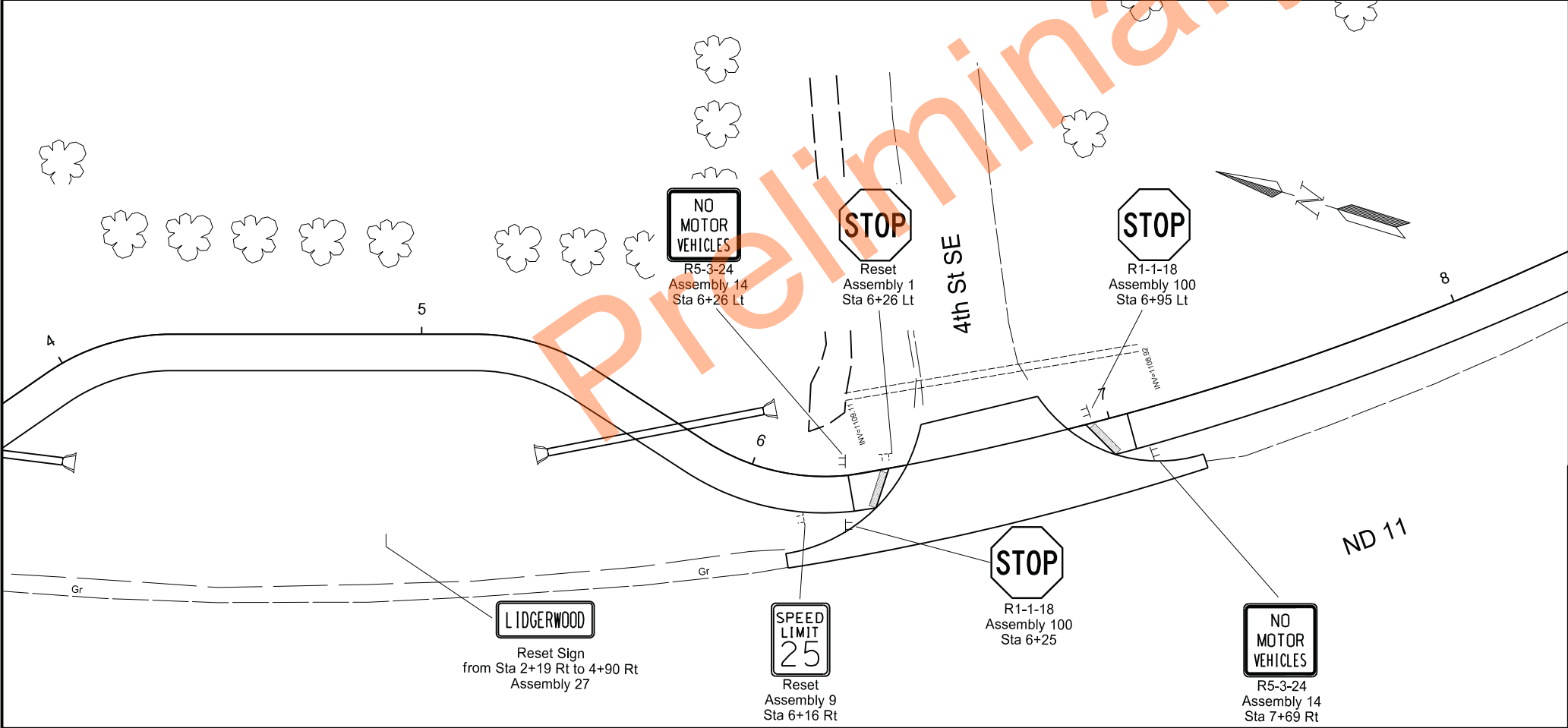
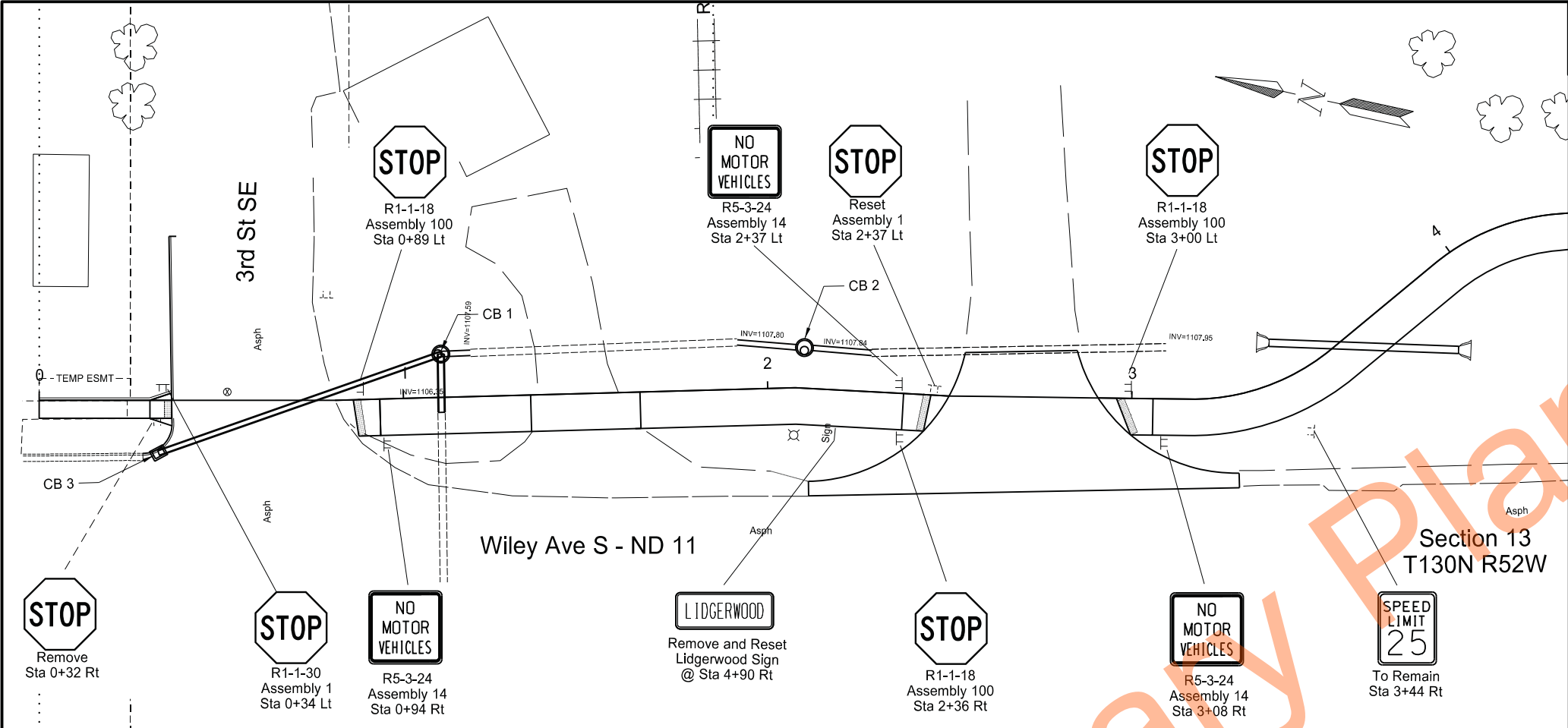
Sidewalk Barricades

1. Provide self standing sidewalk barricade with no supports extending into the pedestrians path.
2. Use orange or orange and white diagonal striped barricade panels contrasting with the walkway surface.
3. Provide ADA compliant and NCHRP 350 or Mash Test Level 3 (TL3) approved sidewalk barricades.
4. Include all costs to furnish, maintain and remove sidewalk barricades in the price bid for "Sidewalk Barricade".



Perspective View

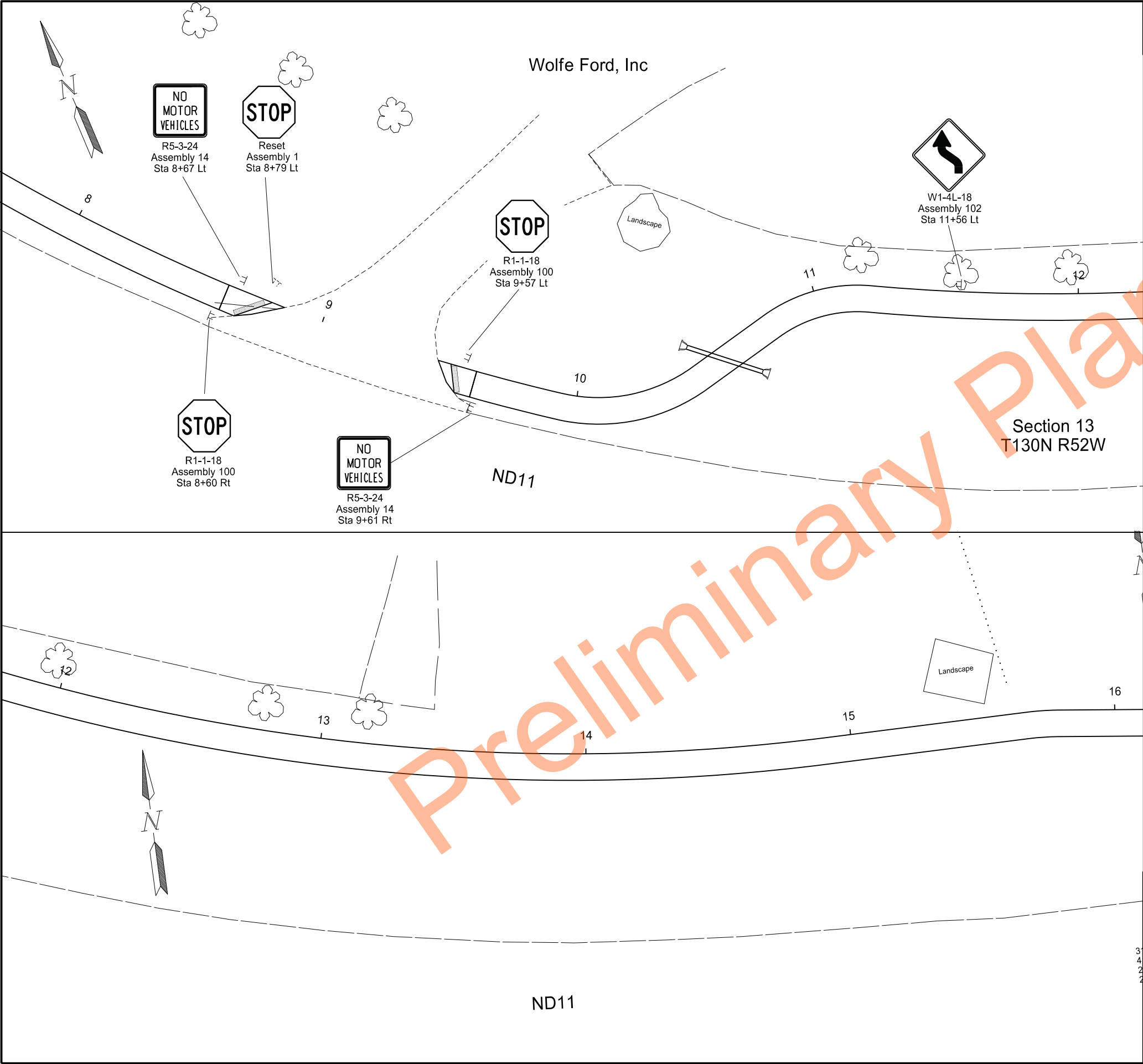
Sidewalk Barricade From 3rd St SE to Dollar General Store ND11 in Lidgerwood Shared Use Path Richland County, North Dakota	Damon K. DeVillers REGISTERED PROFESSIONAL P.E. 3523 8/26/2026 ENGINEER NORTH DAKOTA
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	110	2

Signing Layout
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	110	3

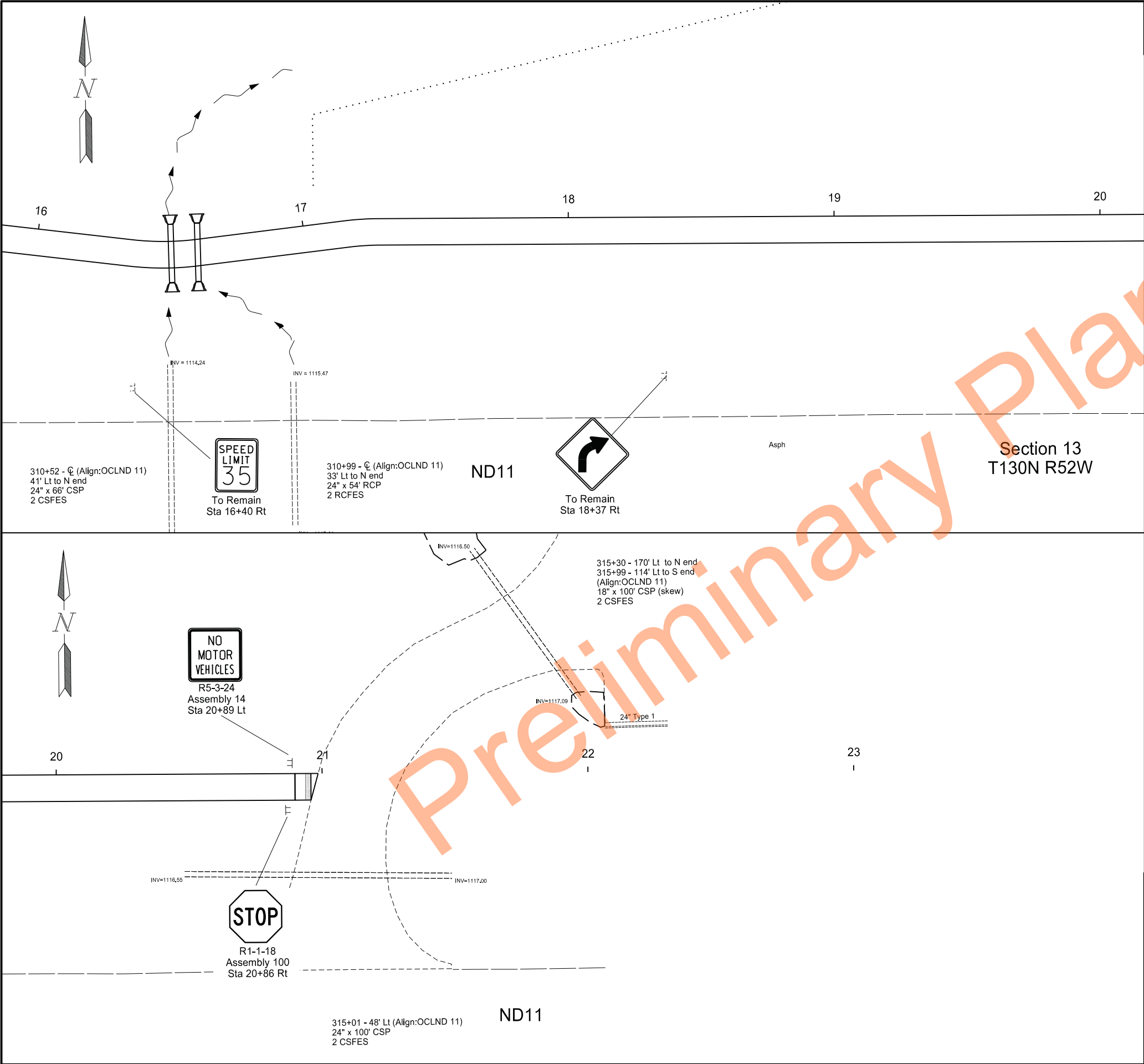
Signing Layout

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

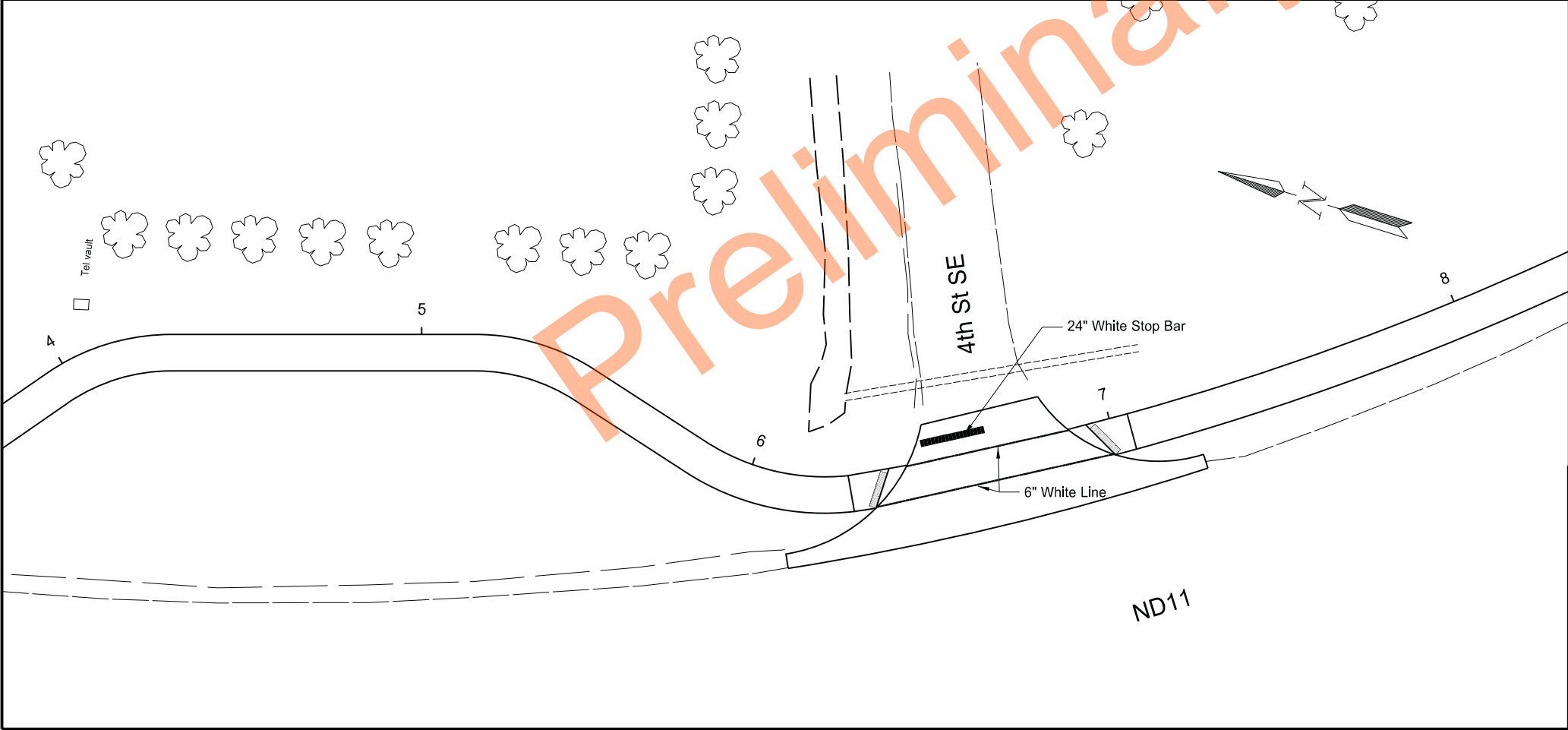
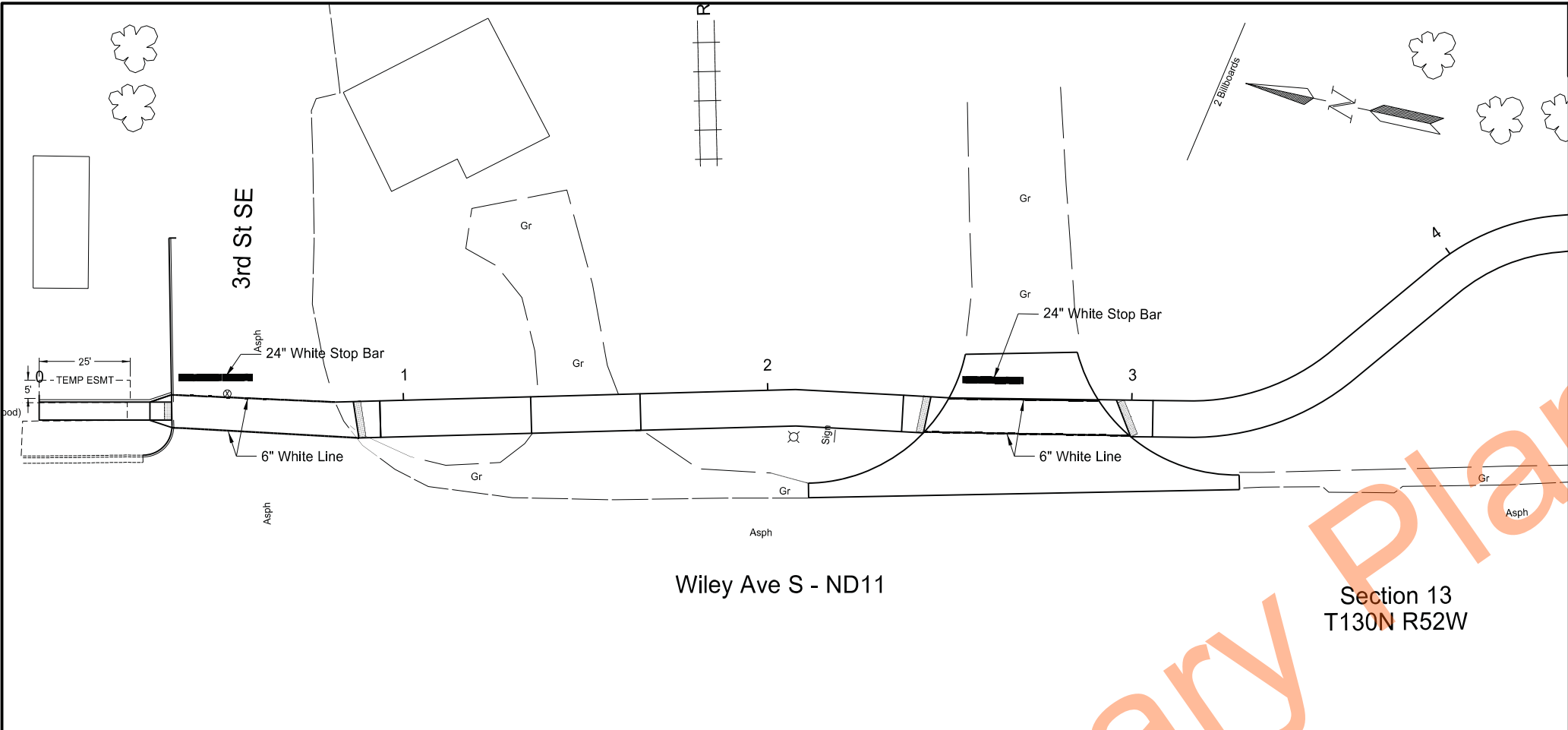
Richland County, North Dakota



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	110	4

Signing Layout
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota





STATE		PROJECT NO.	SECTION NO.	SHEET NO.
ND		NDS-SS-8-011(053)153	120	1

SPEC CODE	BID ITEM	UNIT	QTY
762 0114	EPOXY PVMT MK 6IN LINE		
0+39 to 0+86	2 lines	LF	90
2+43 to 3+00	2 Lines	LF	98
6+30 to 7+00	2 Lines	LF	114
Total			302

SPEC CODE	BID ITEM	UNIT	QTY
762 0117	EPOXY PVMT MK 24IN LINE		
0+37 to 0+57	Lt	LF	20
2+52 to 2+70	Lt	LF	18
6+47 to 6+66	Lt	LF	19
Total			57

Pavement Marking

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers

REGISTERED

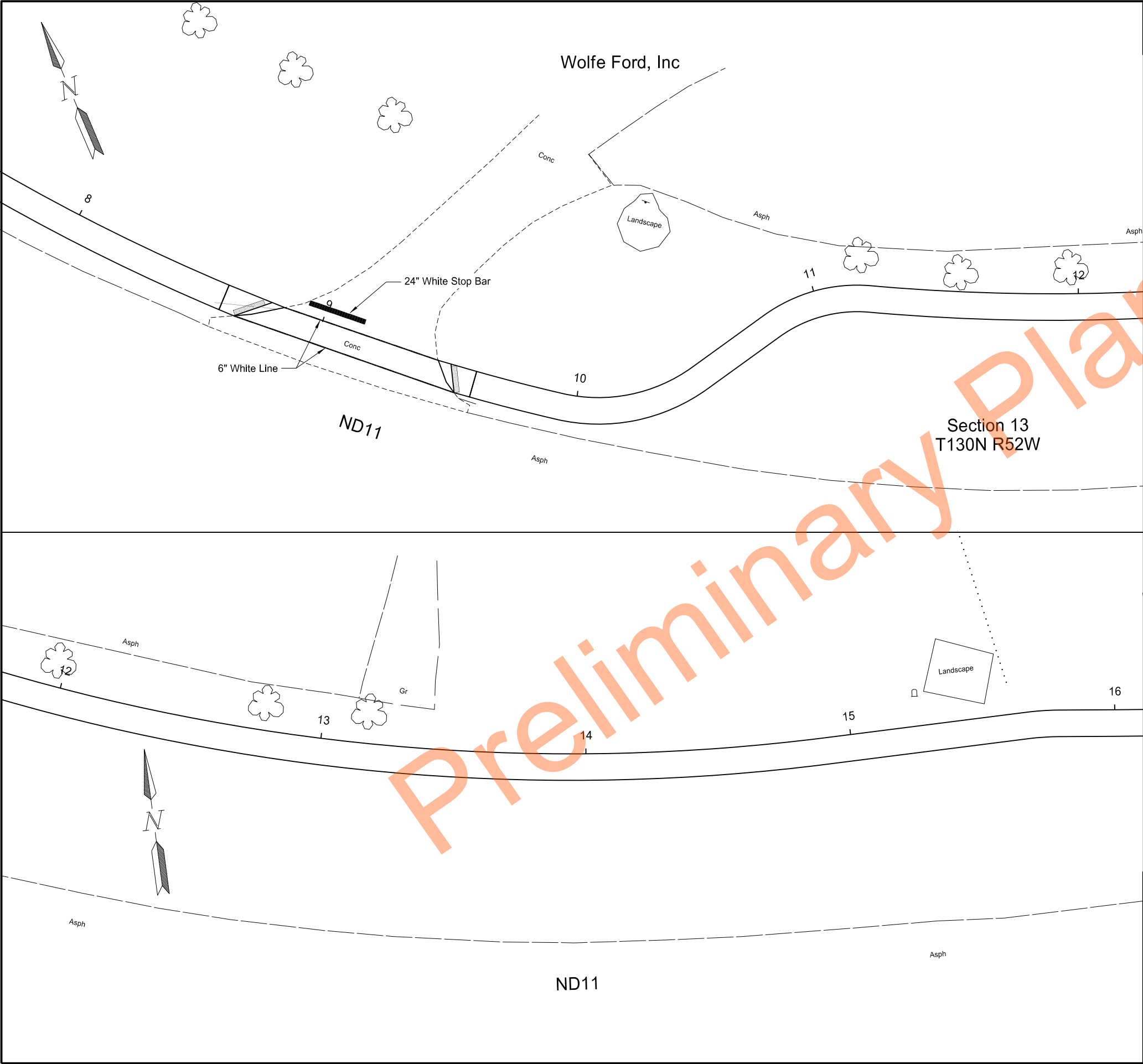
PROFESSIONAL

P.E. 3523

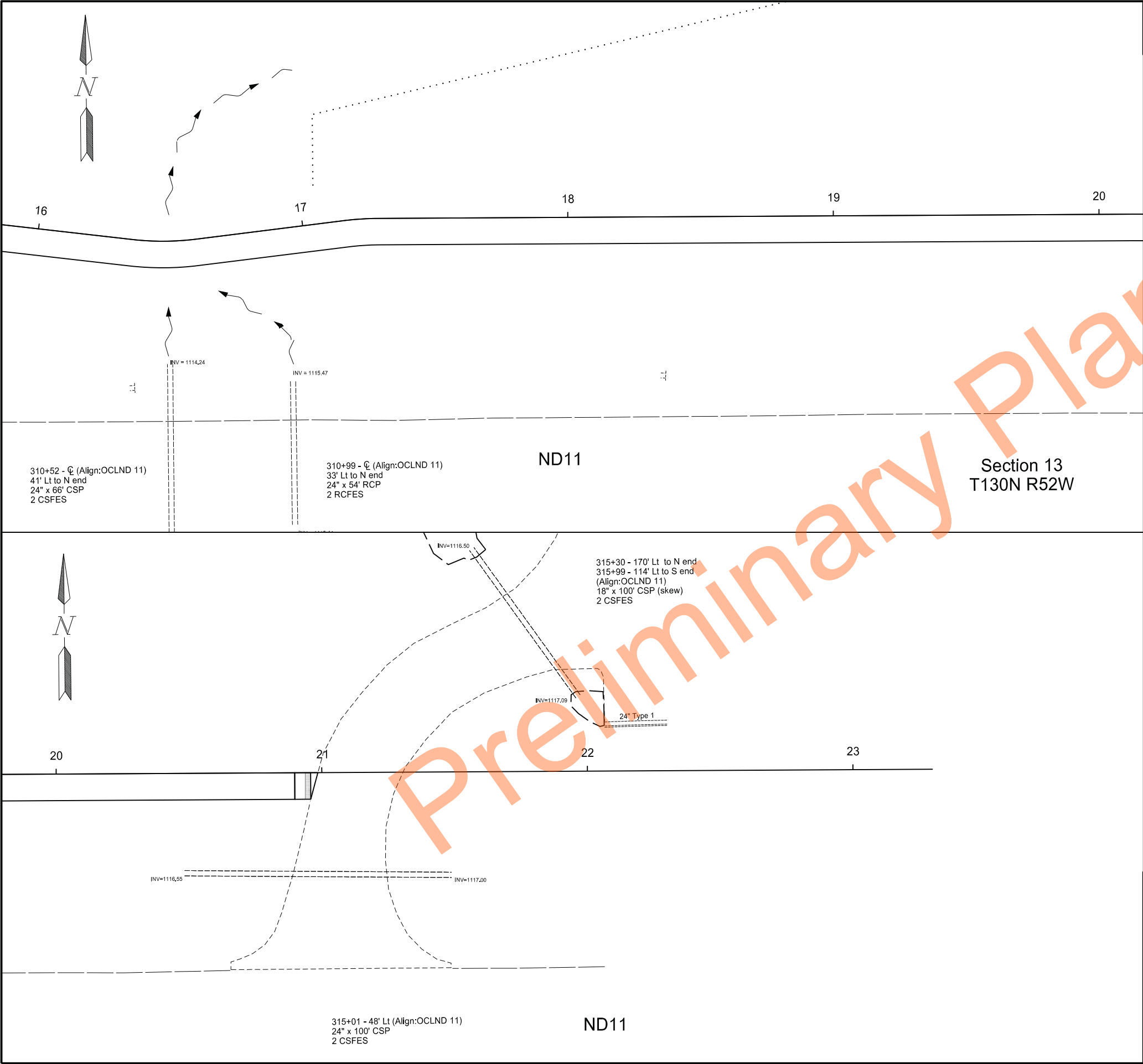
6/26/2026

ENGINEER

NORTH DAKOTA



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	120	2
SPEC CODE				



No pavement marking work on this sheet.

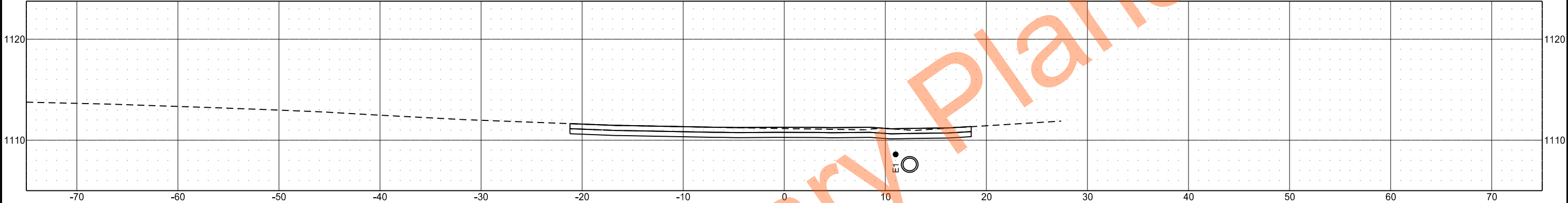
Pavement Marking
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota



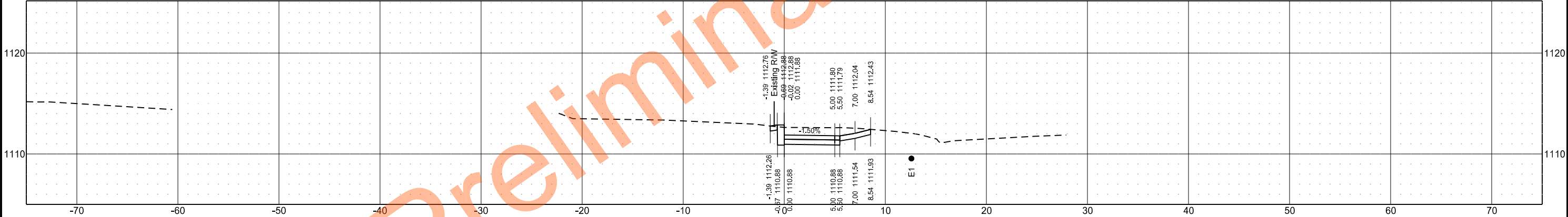
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	200	1

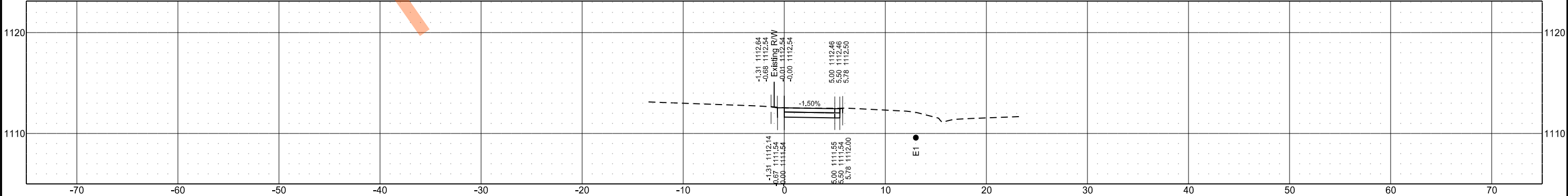
Sta 0+40.00



Sta 0+20.00



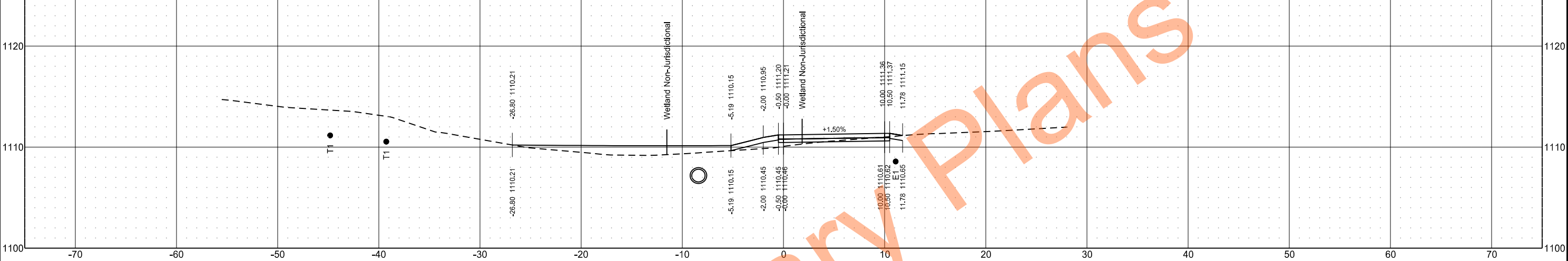
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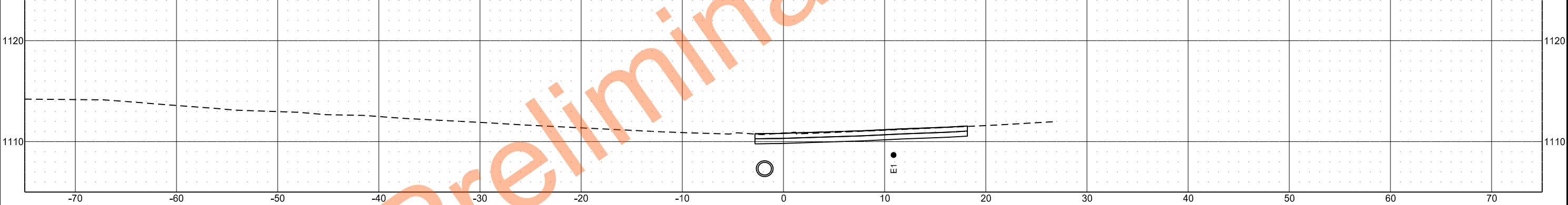
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	2

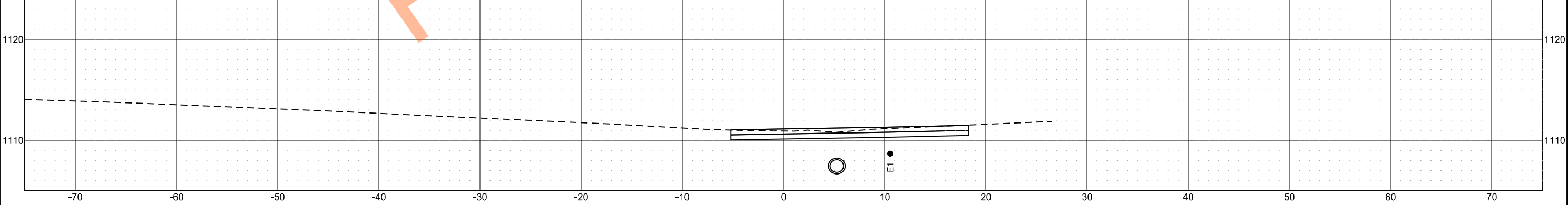
Sta 1+00.00



Sta 0+80.00



Sta 0+60.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

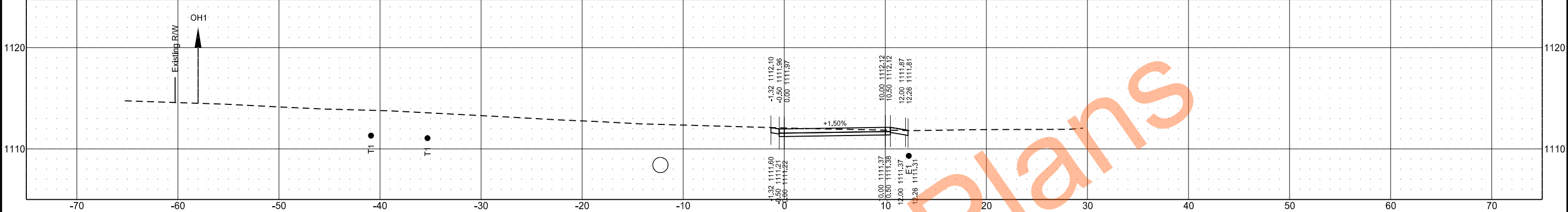
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NDS-SS-8-011(053)153

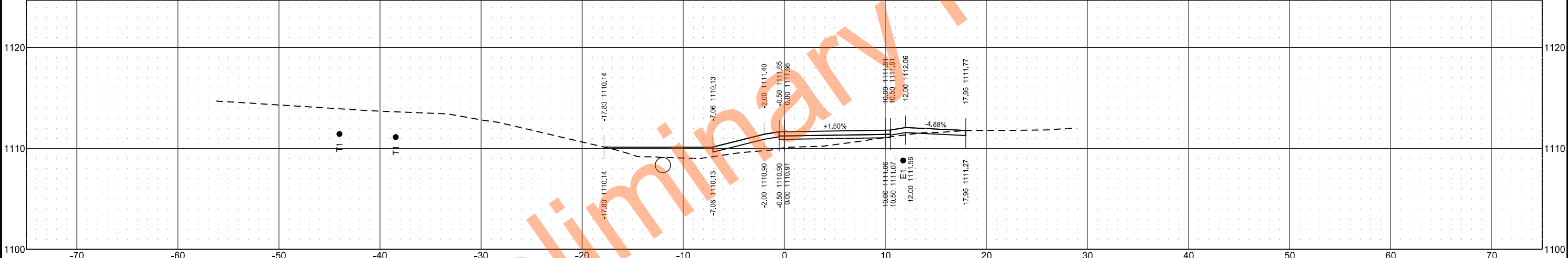
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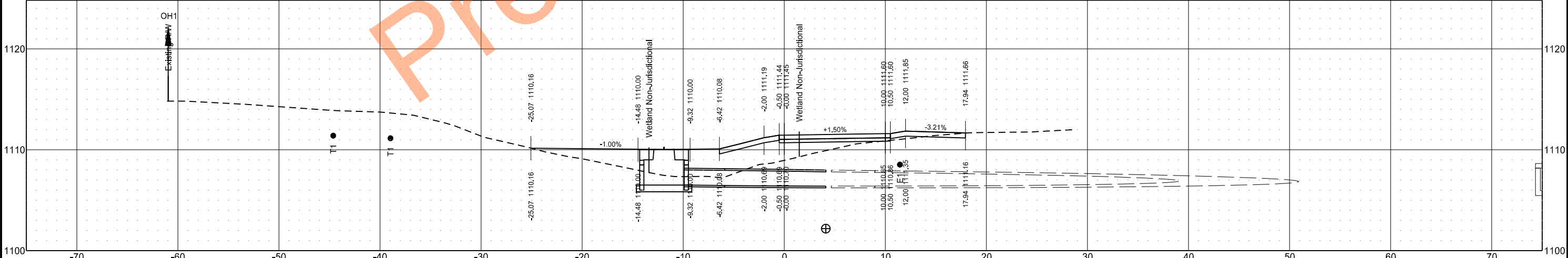
Sta 1+40.00



Sta 1+20.00



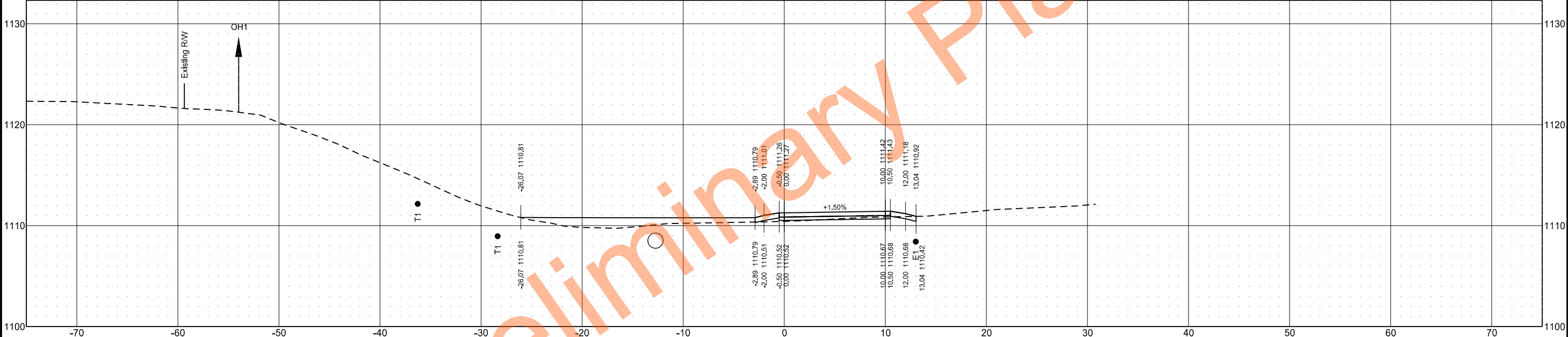
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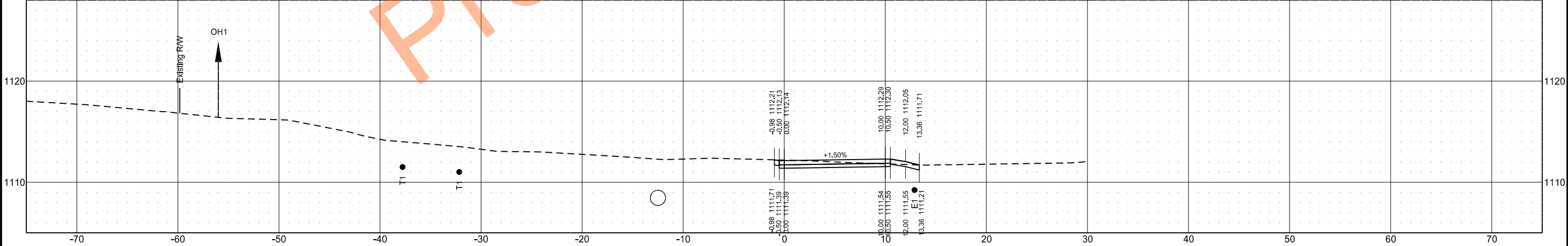
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	4

Sta 1+80.00



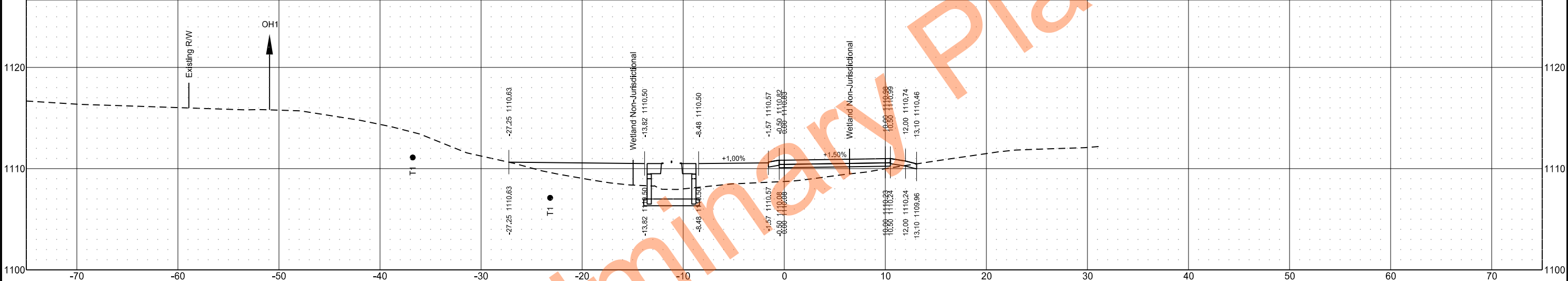
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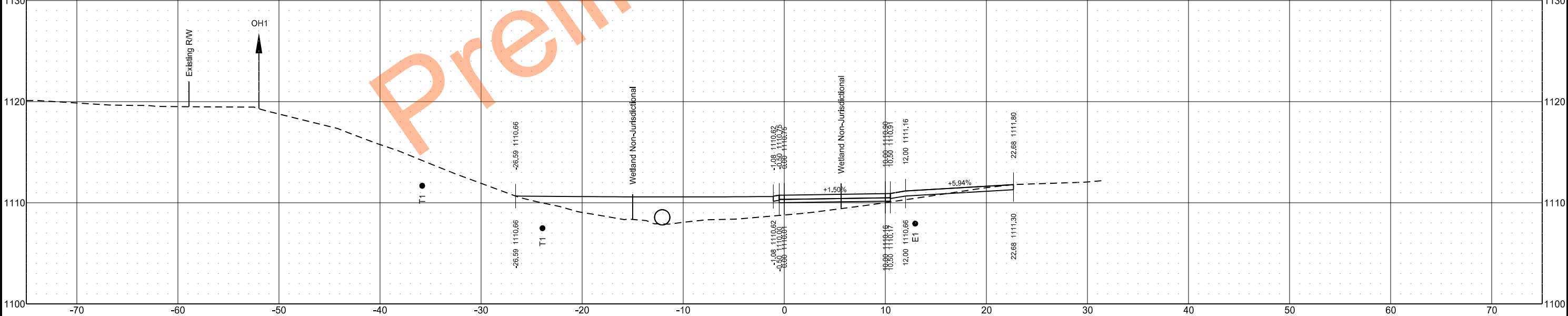
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	5

Sta 2+09.50



Sta 2+00.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

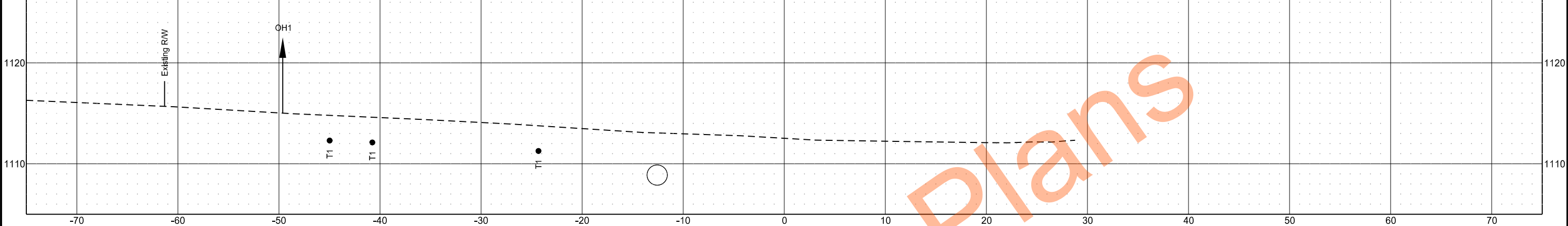
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NDS-SS-8-011(053)153

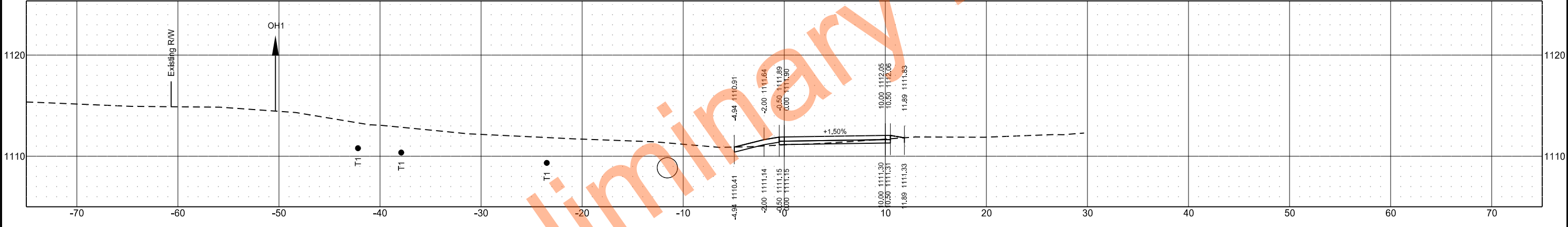
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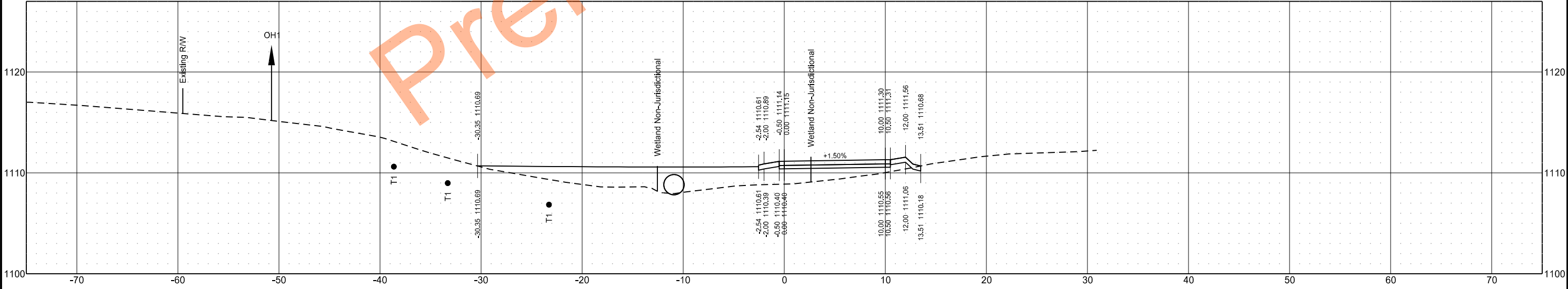
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Sta 2+40.00



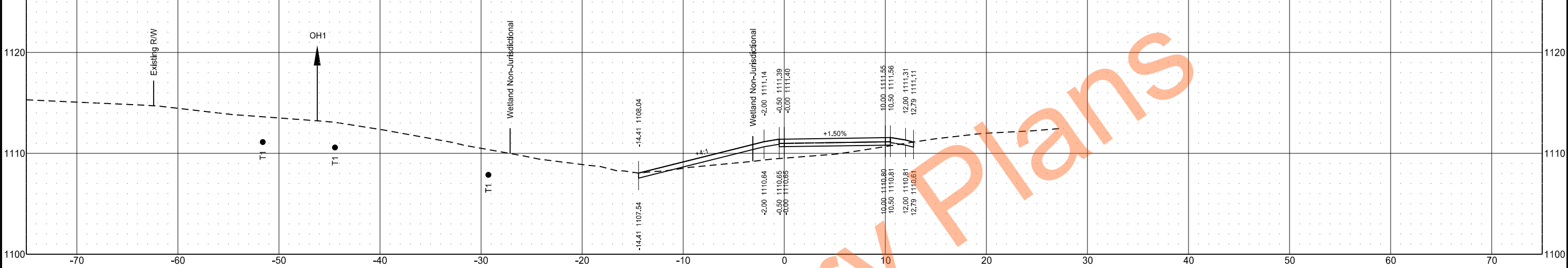
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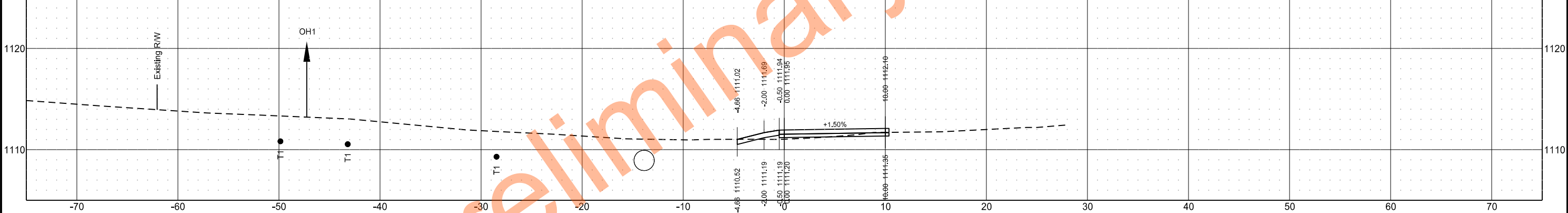
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	7

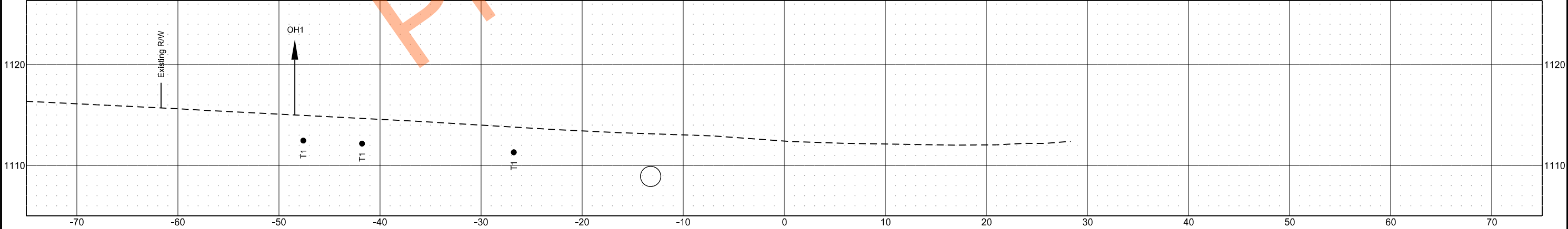
Sta 3+20.00



Sta 3+00.00



Sta 2+80.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

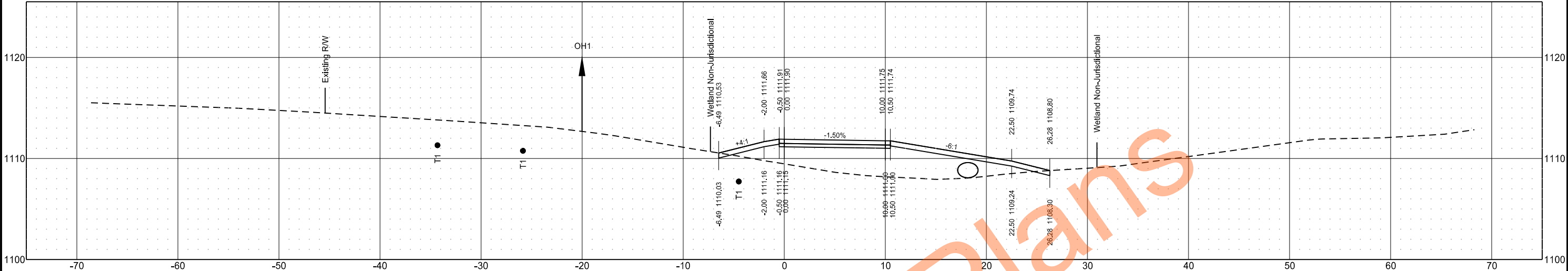
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NDS-SS-8-011(053)153

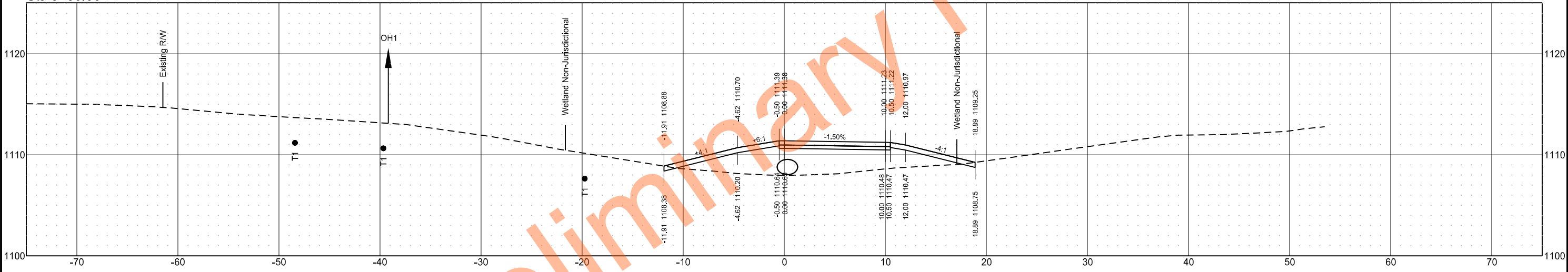
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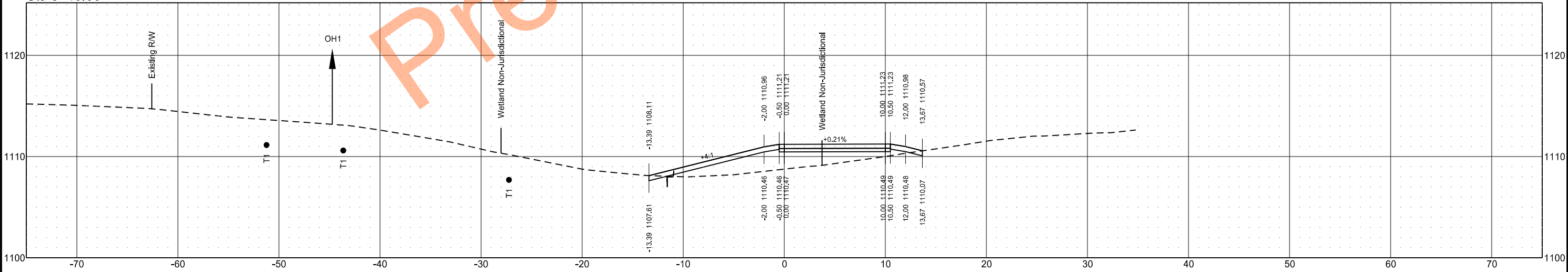
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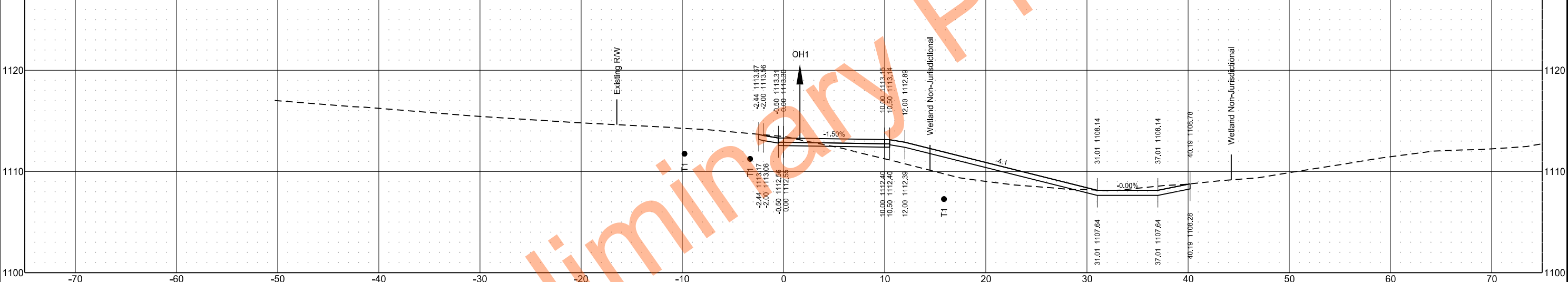
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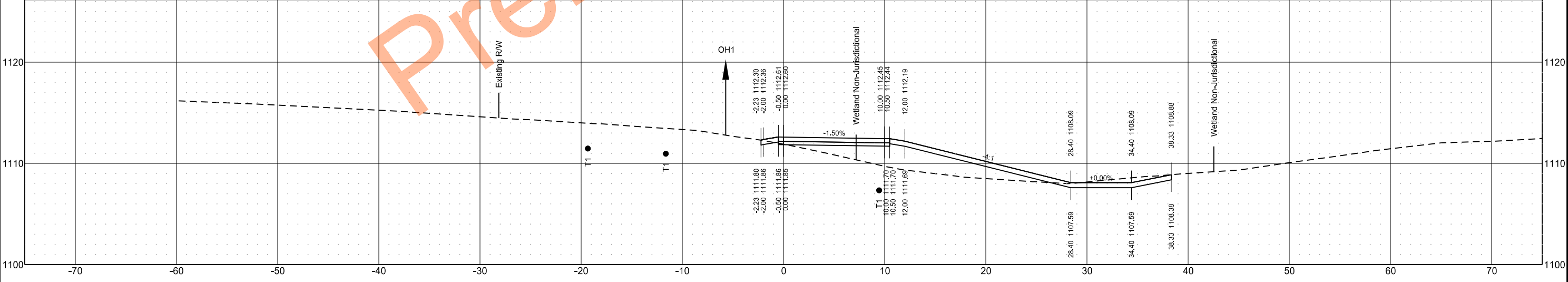
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	9

Sta 4+20.00



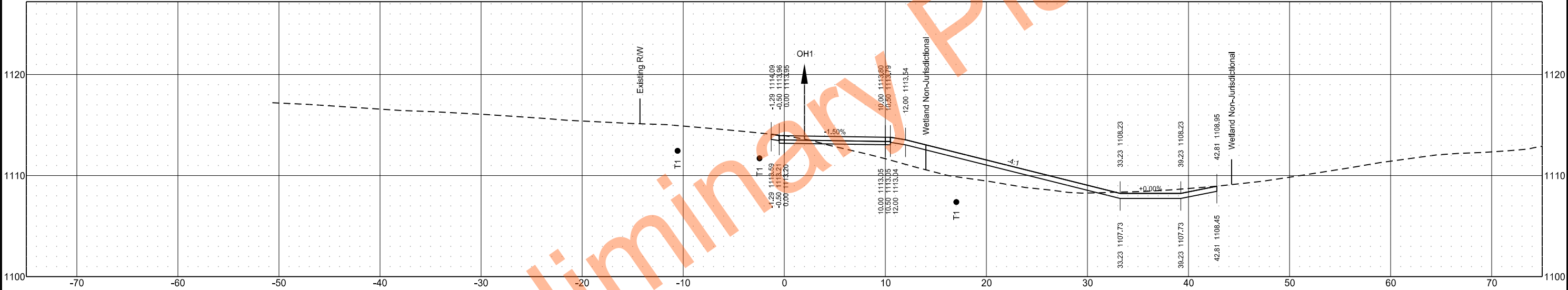
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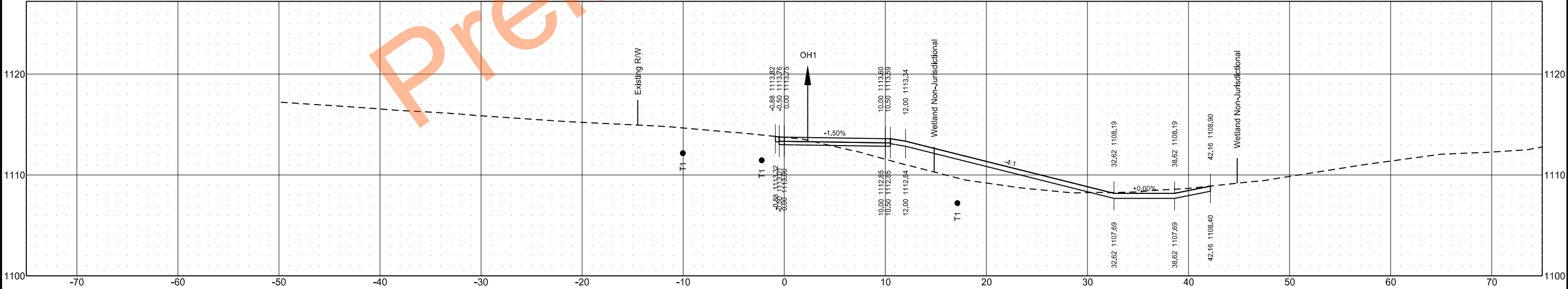
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	10

Sta 4+60.00



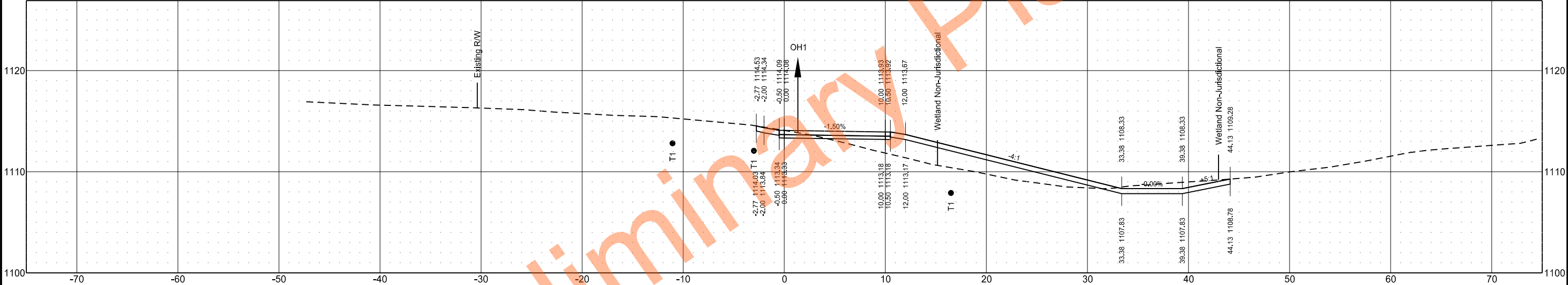
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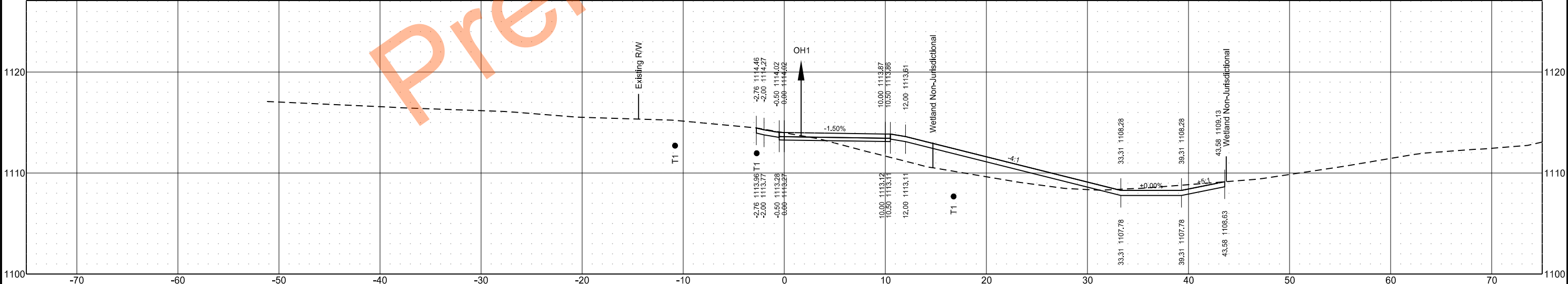
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	11

Sta 5+00.00



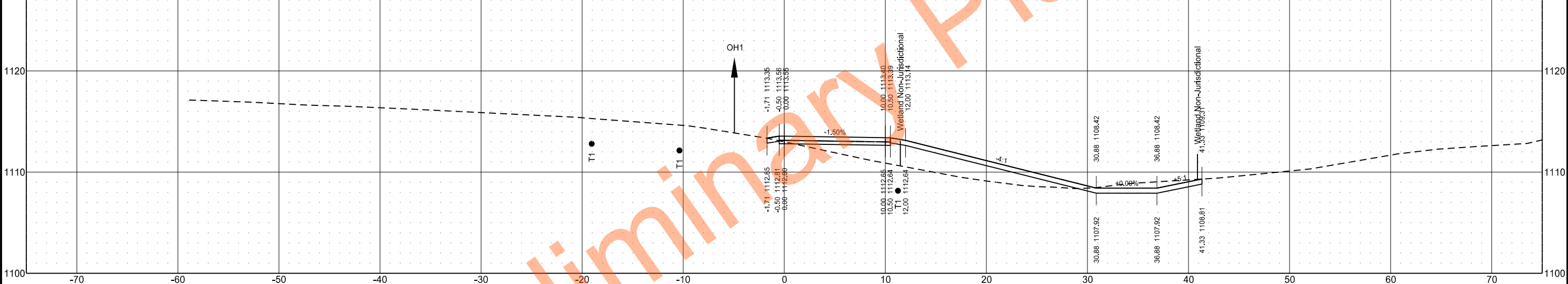
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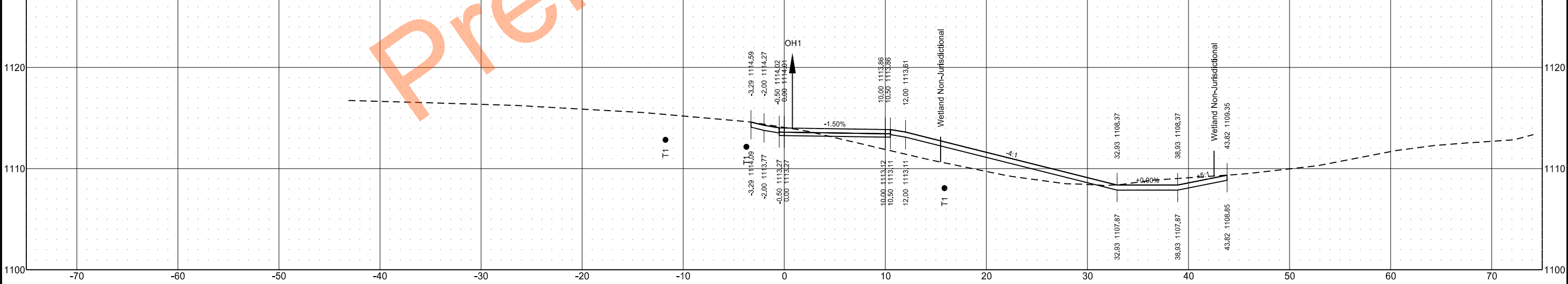
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	12

Sta 5+40.00



Sta 5+20.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

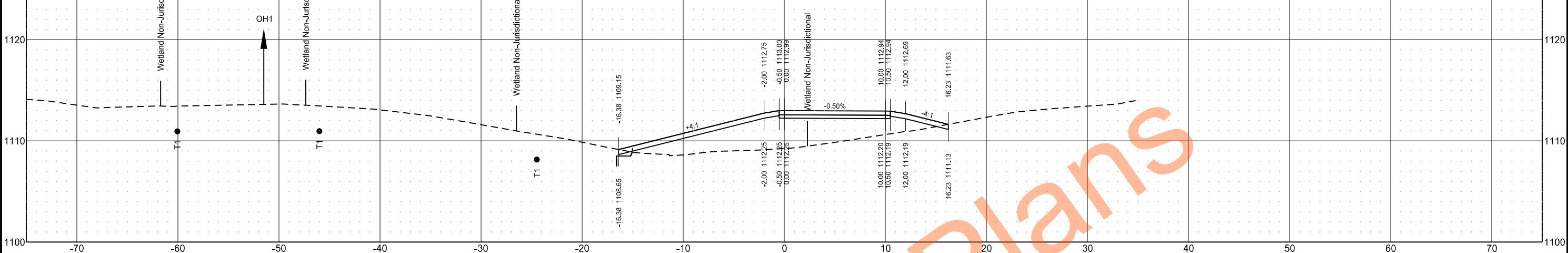
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NDS-SS-8-011(053)153

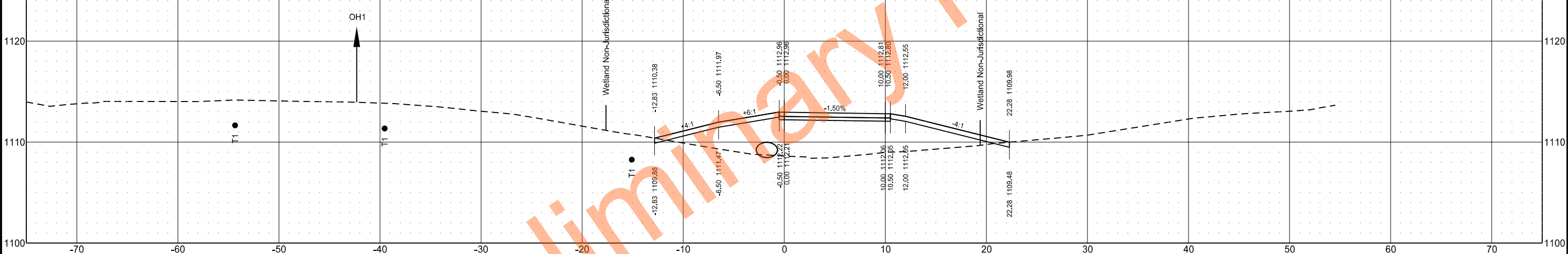
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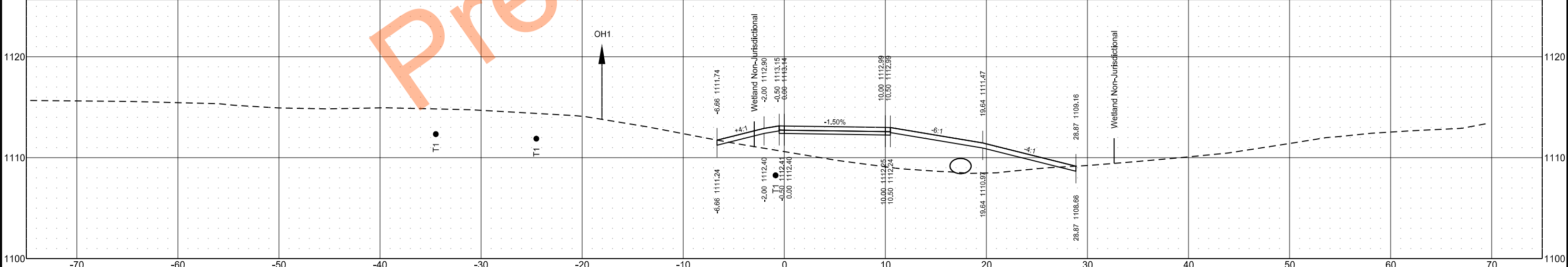
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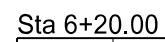
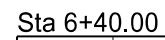
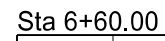
Sta 5+80.00



Sta 5+60.00



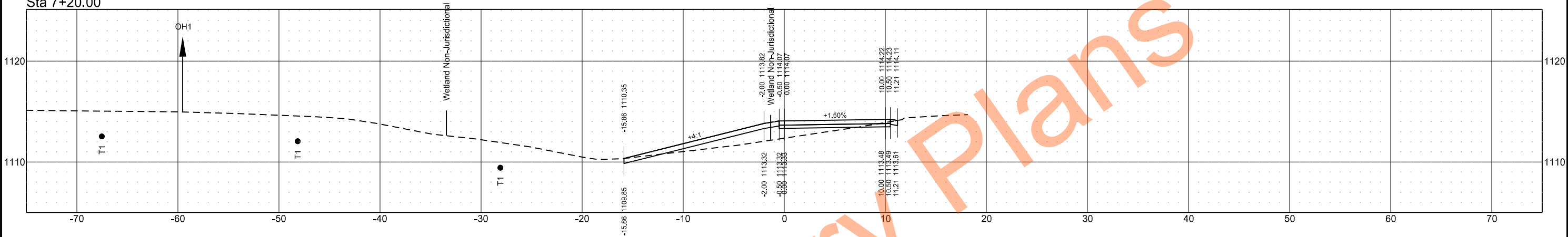
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota



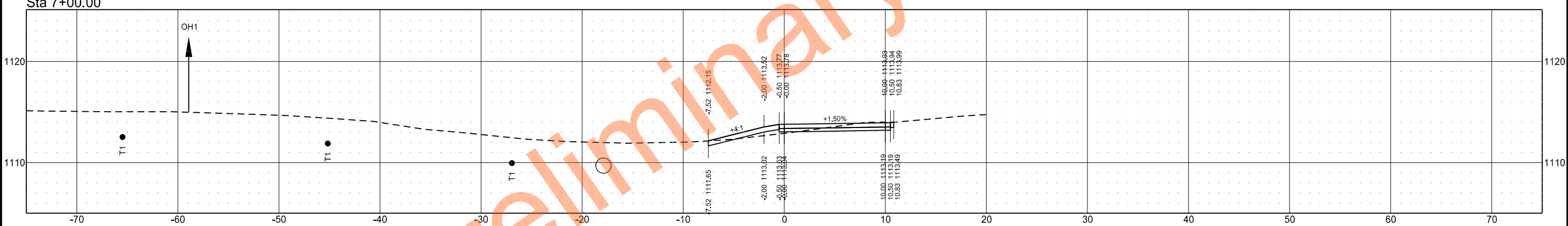
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	15

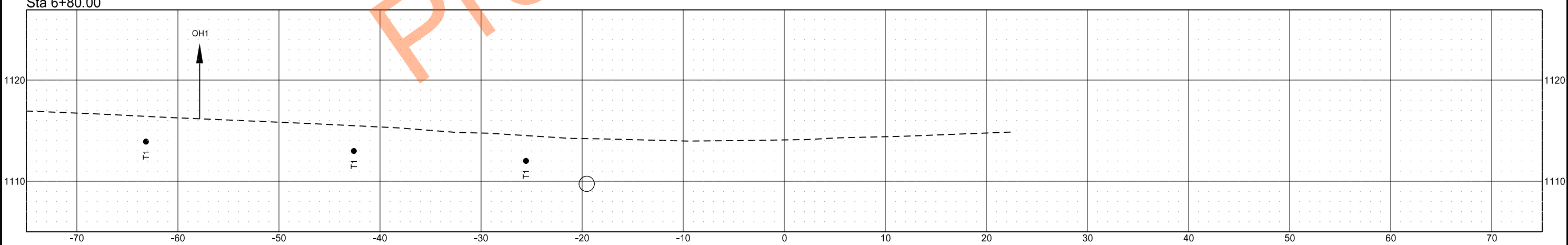
Sta 7+20.00



Sta 7+00.00



Sta 6+80.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

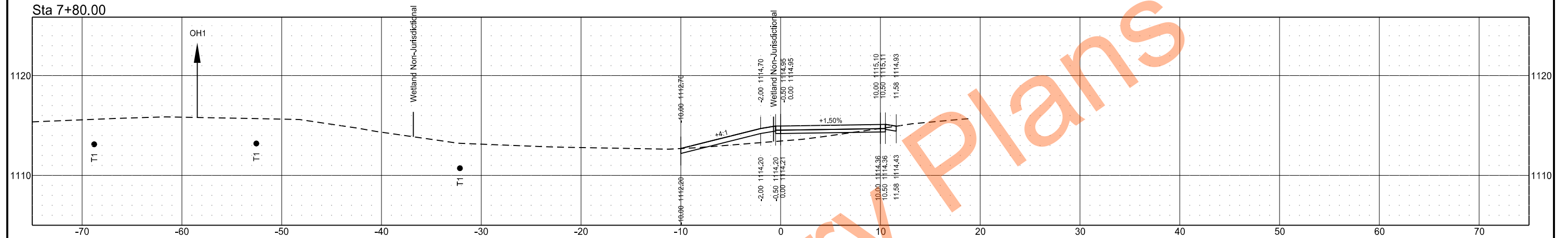
ND

NDS-SS-8-011(053)153

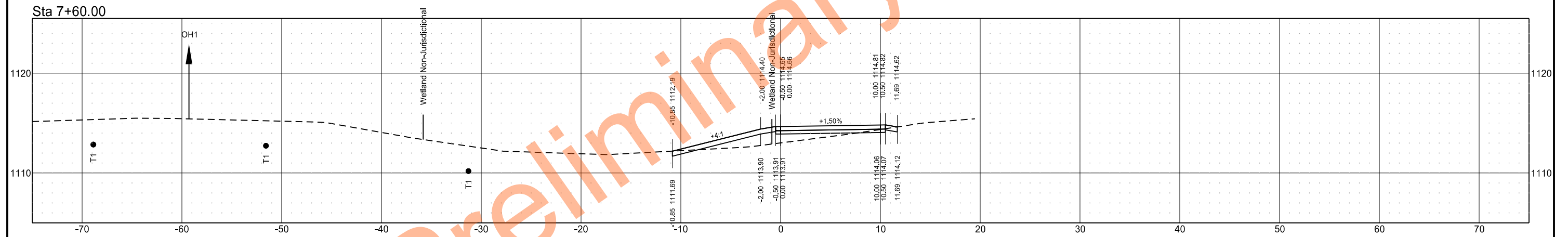
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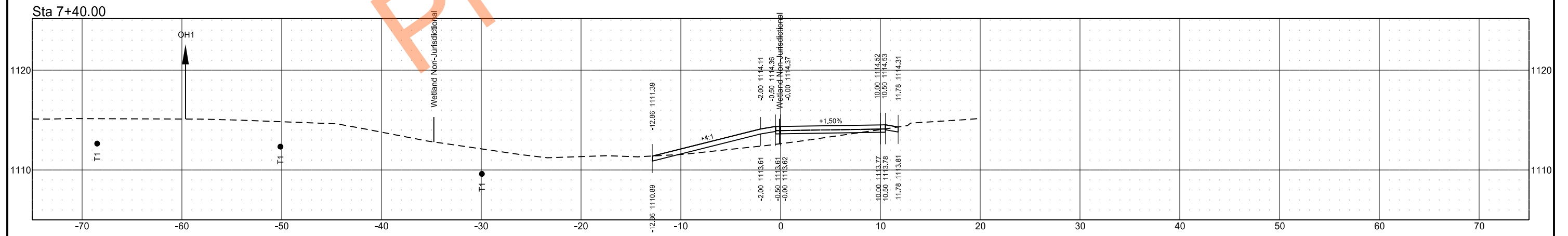
Sta 7+80.00



Sta 7+60.00



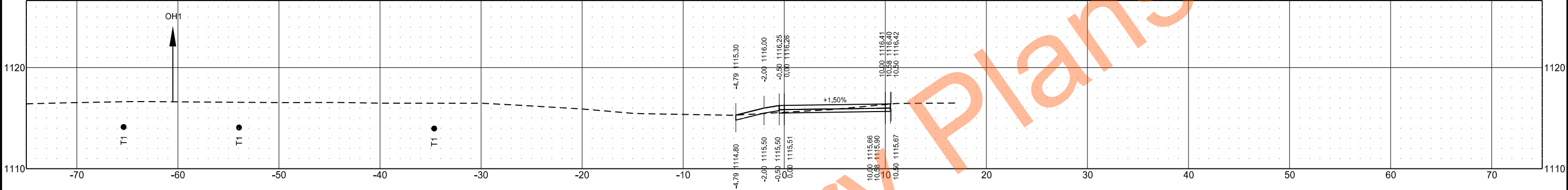
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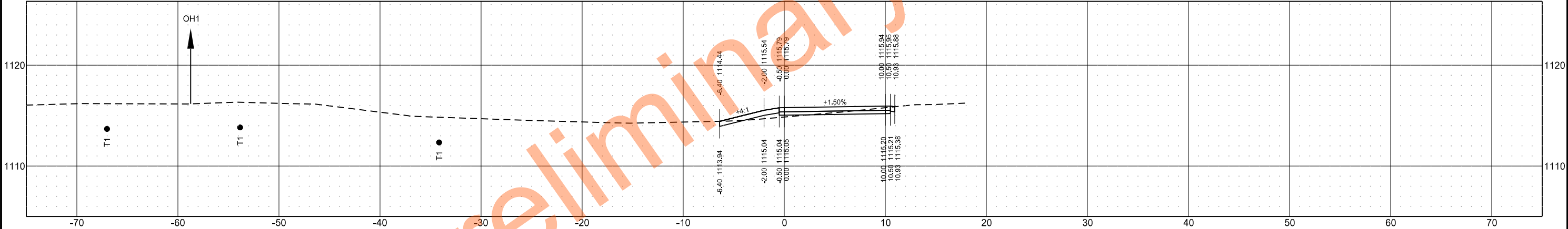
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	17

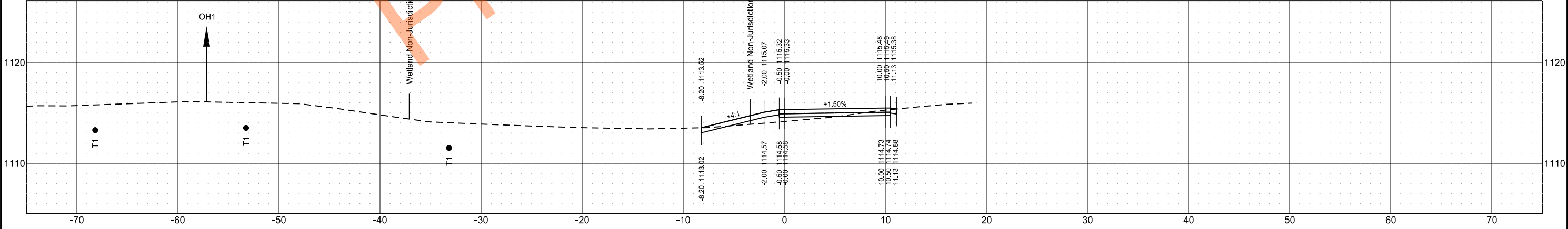
Sta 8+40.00



Sta 8+20.00



Sta 8+00.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

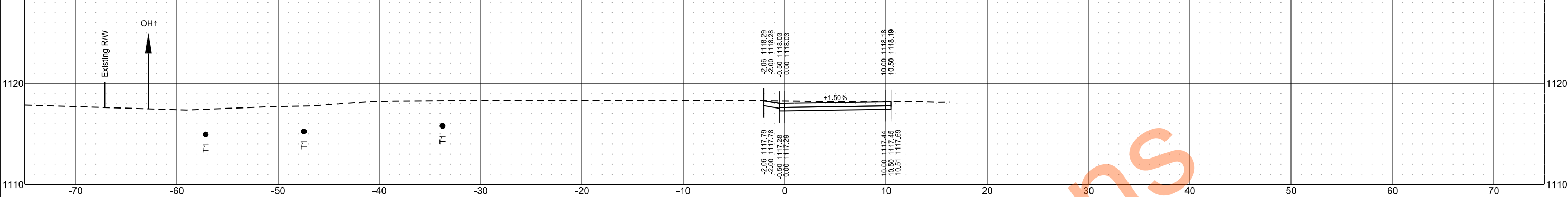
ND

NDS-SS-8-011(053)153

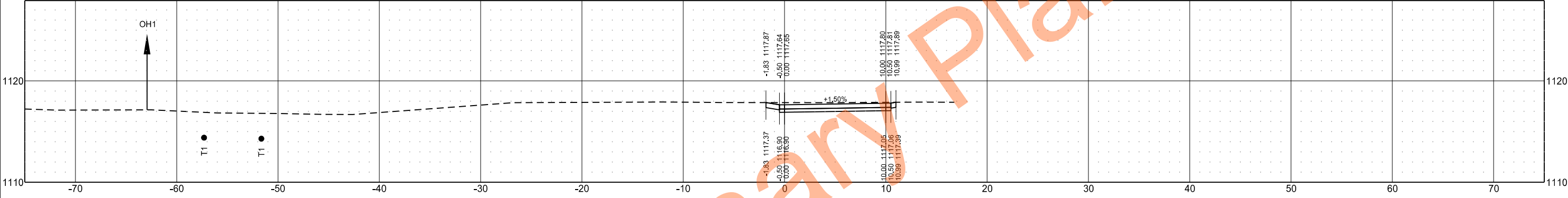
200

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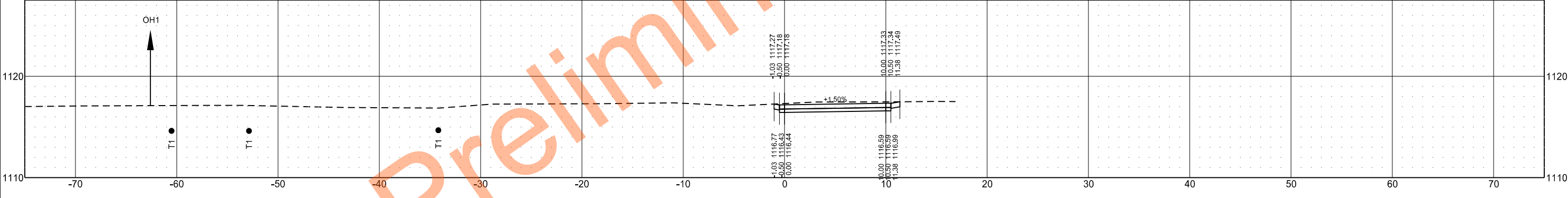
Sta 9+20.00



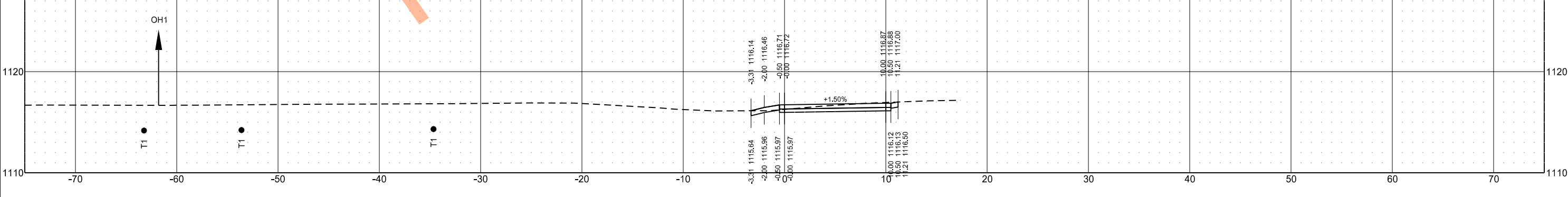
Sta 9+00.00



Sta 8+80.00

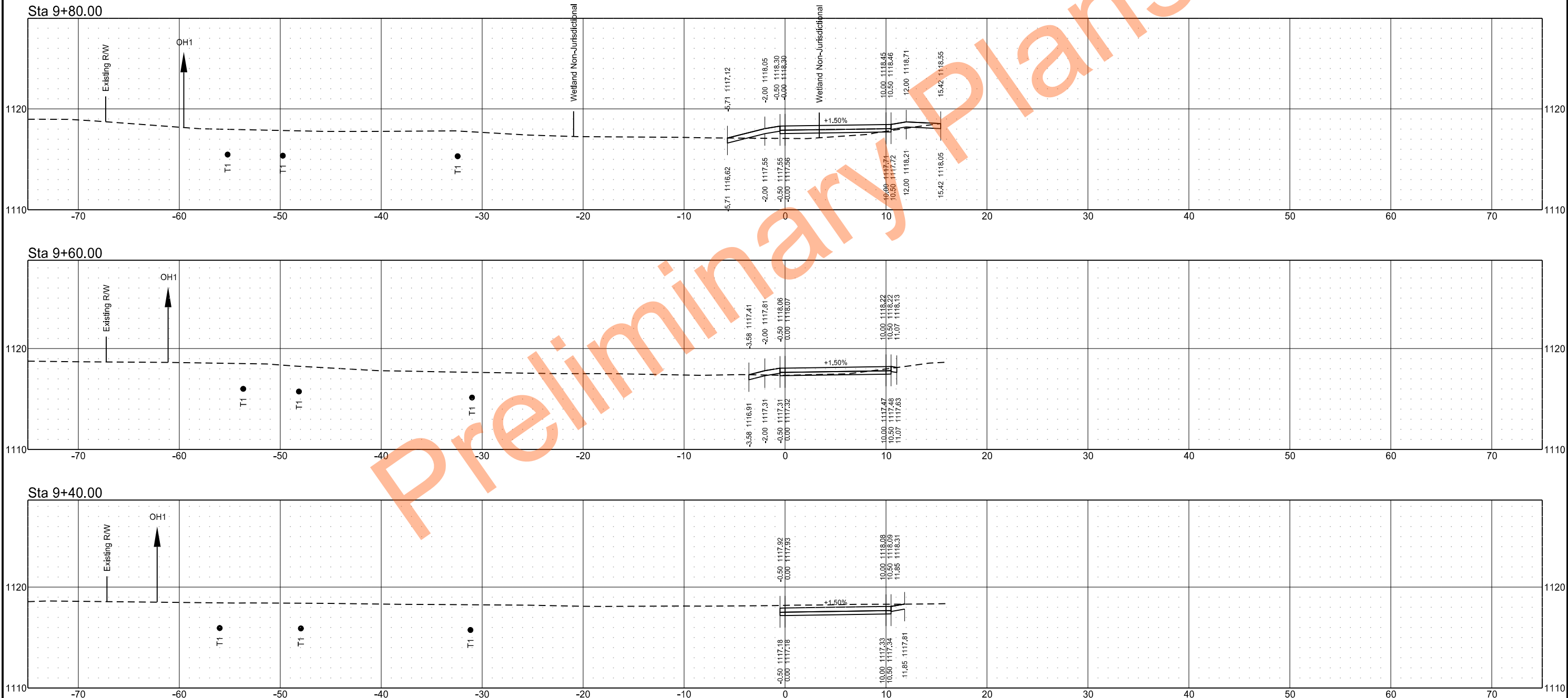


Sta 8+60.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	19



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

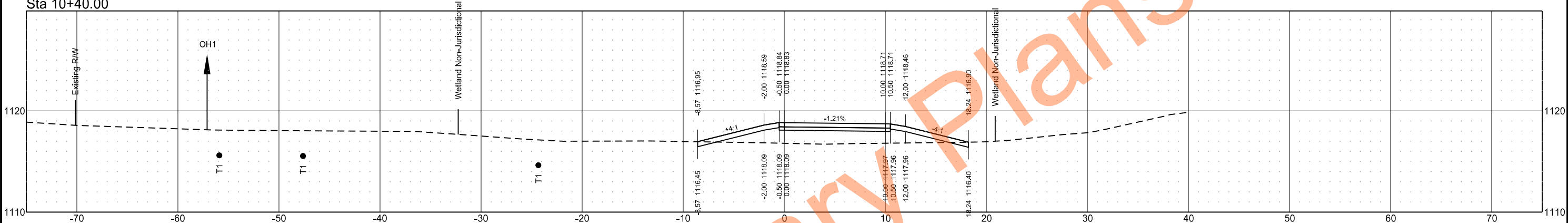
ND

NDS-SS-8-011(053)153

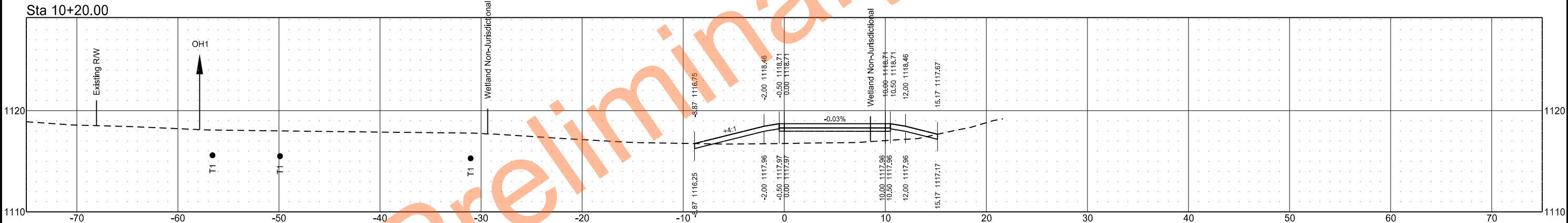
200

20

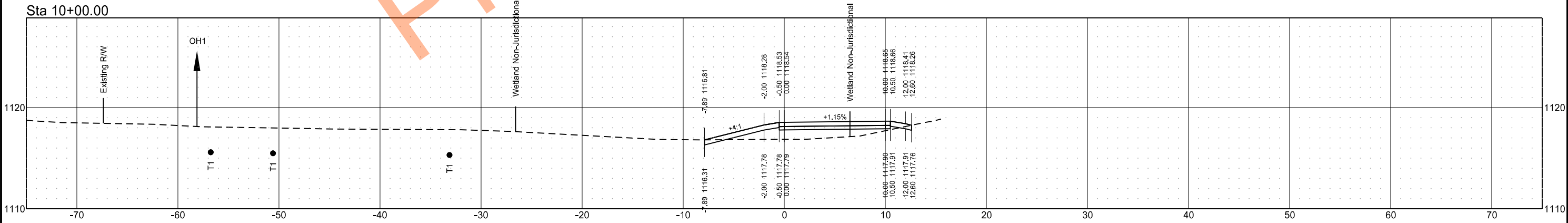
Sta 10+40.00



Sta 10+20.00



Sta 10+00.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

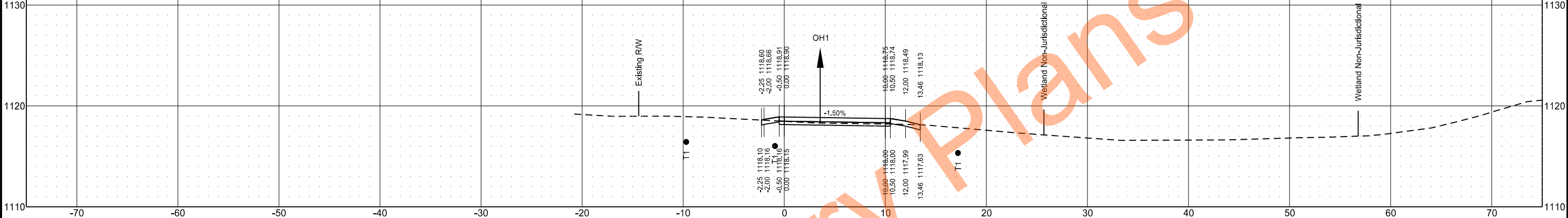
ND

NDS-SS-8-011(053)153

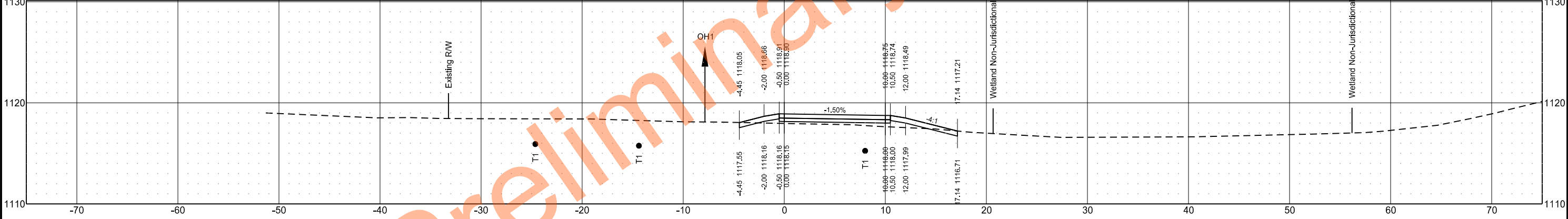
200

21

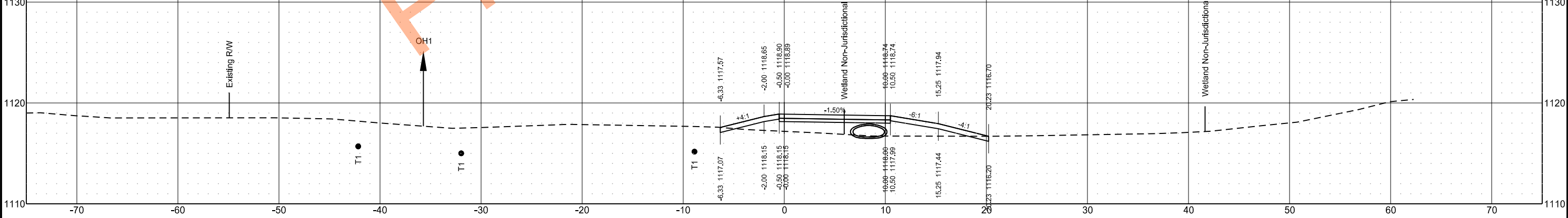
Sta 11+00.00



Sta 10+80.00



Sta 10+60.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

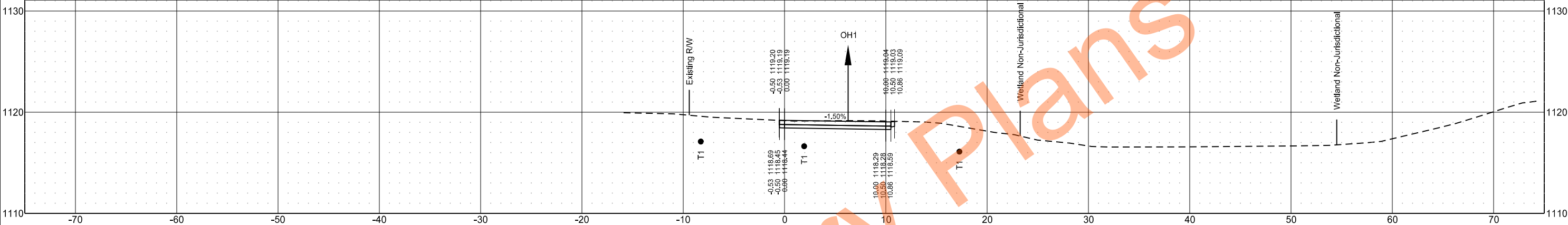
ND

NDS-SS-8-011(053)153

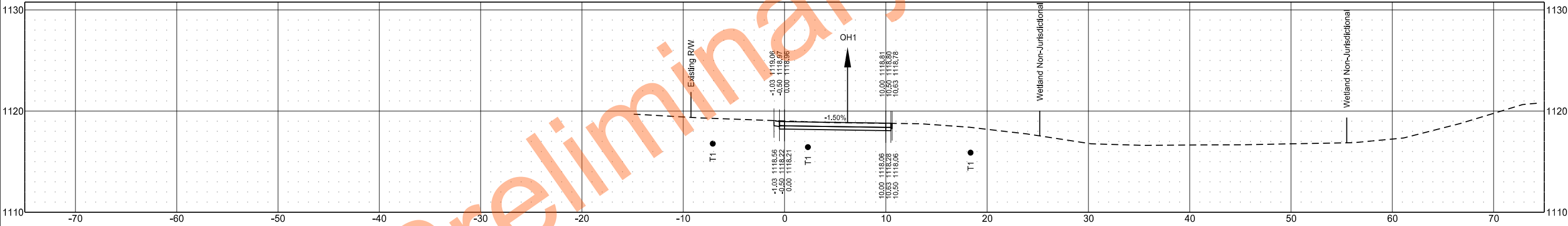
200

22

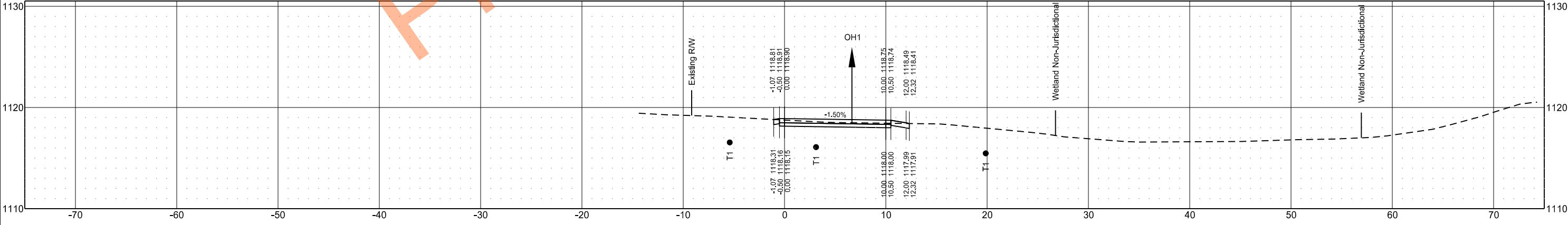
Sta 11+60.00



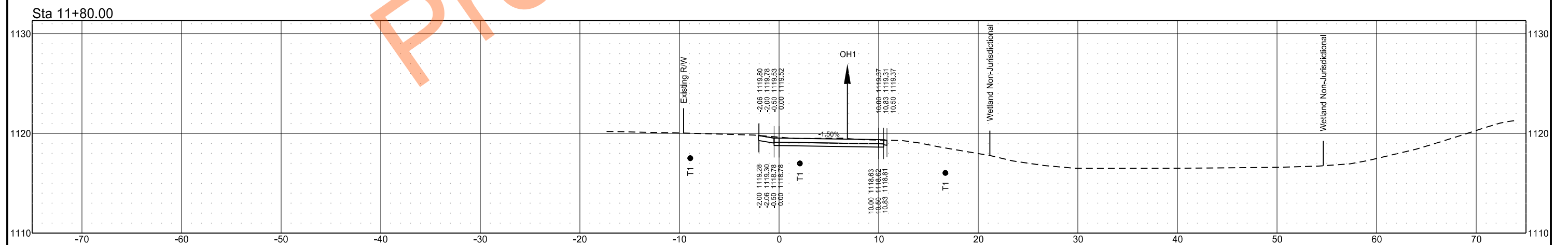
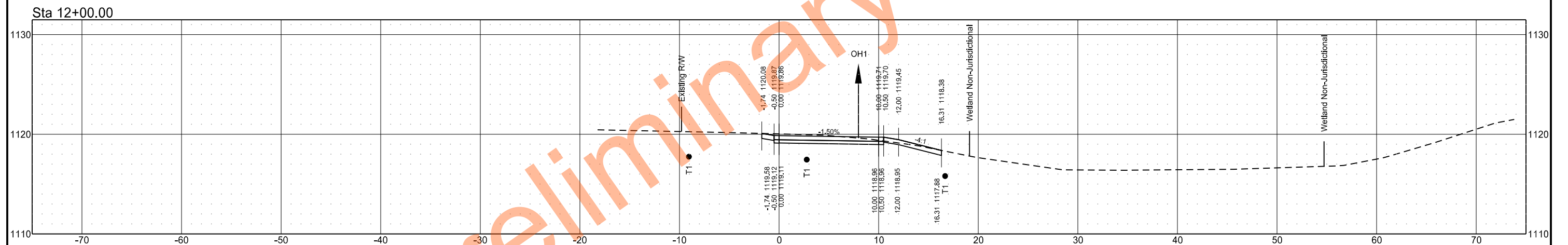
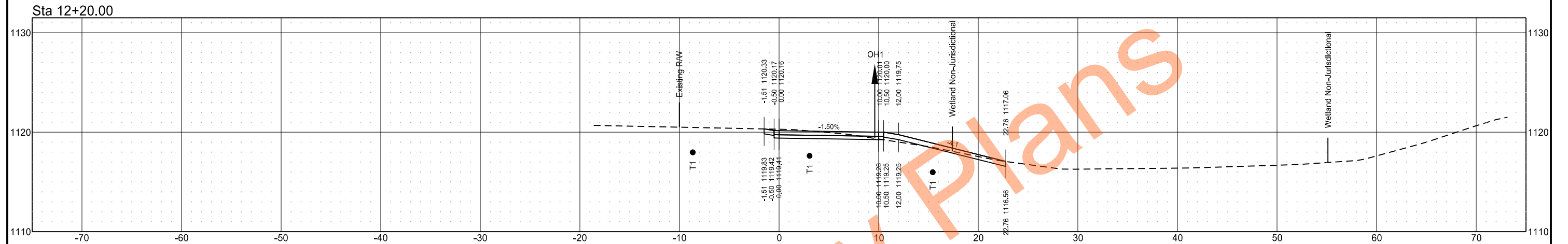
Sta 11+40.00



Sta 11+20.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

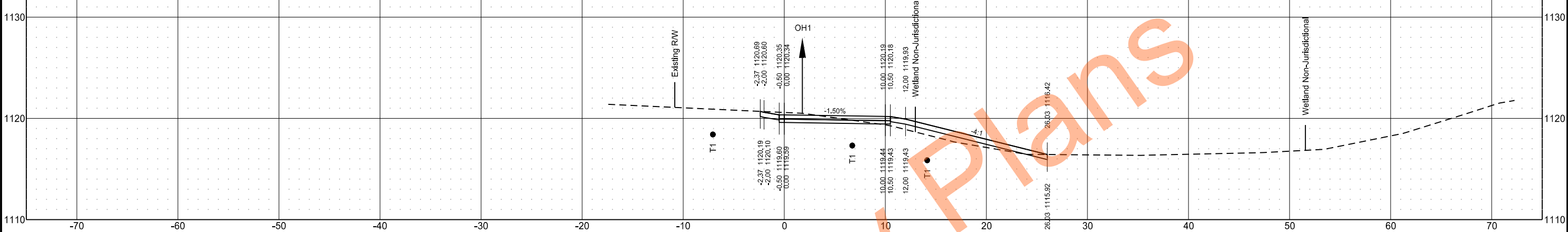
ND

NDS-SS-8-011(053)153

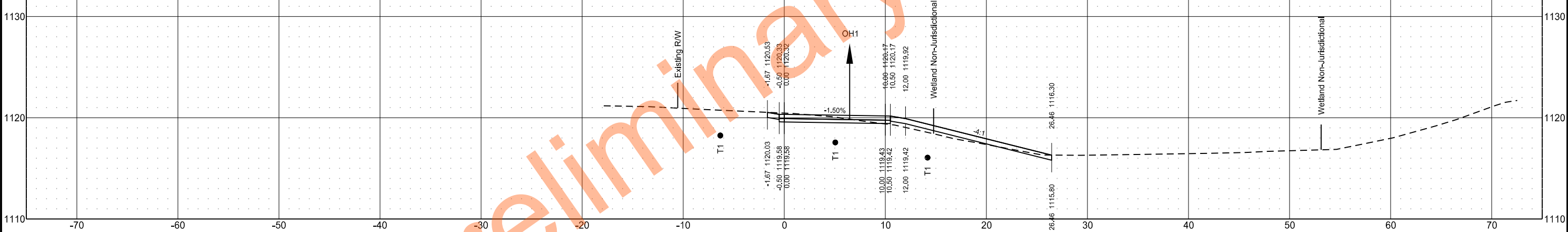
200

24

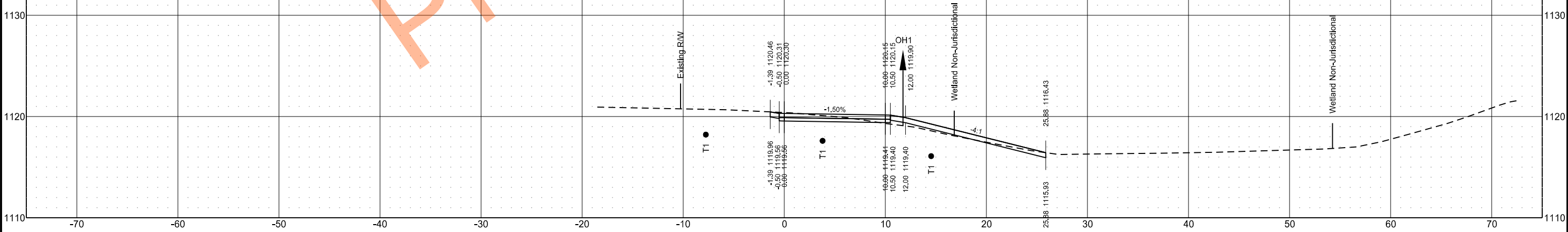
Sta 12+80.00



Sta 12+60.00



Sta 12+40.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

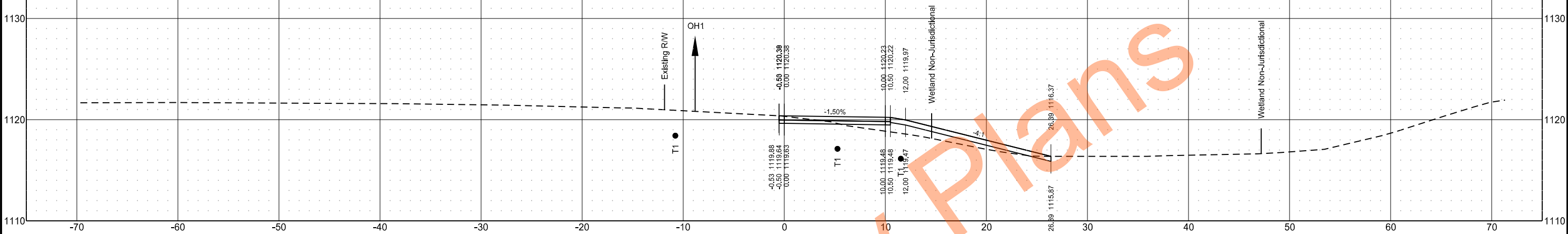
ND

NDS-SS-8-011(053)153

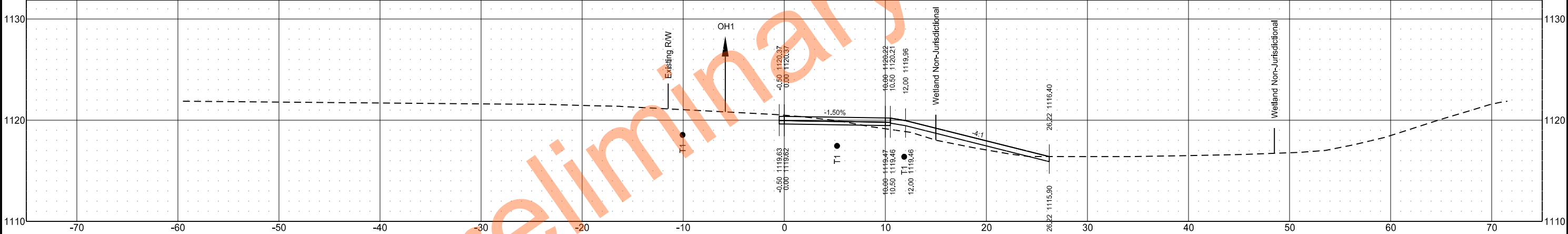
200

25

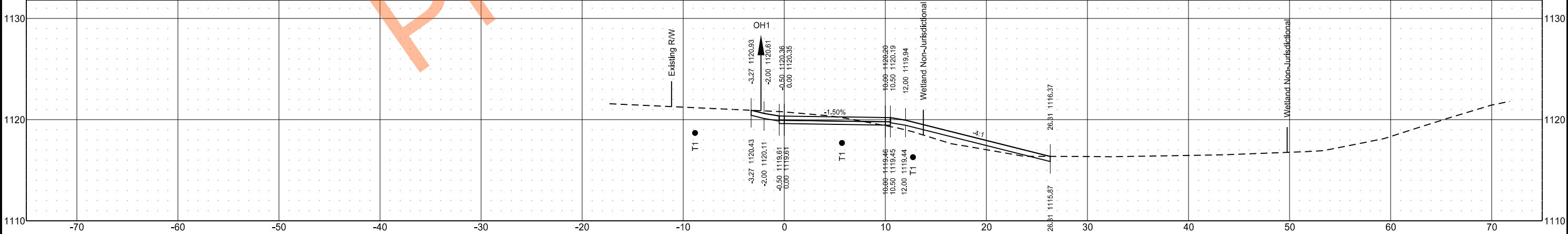
Sta 13+40.00



Sta 13+20.00



Sta 13+00.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

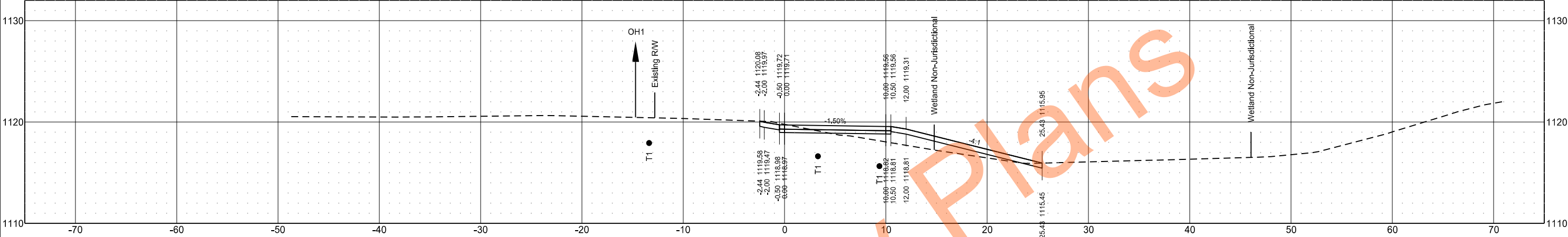
ND

NDS-SS-8-011(053)153

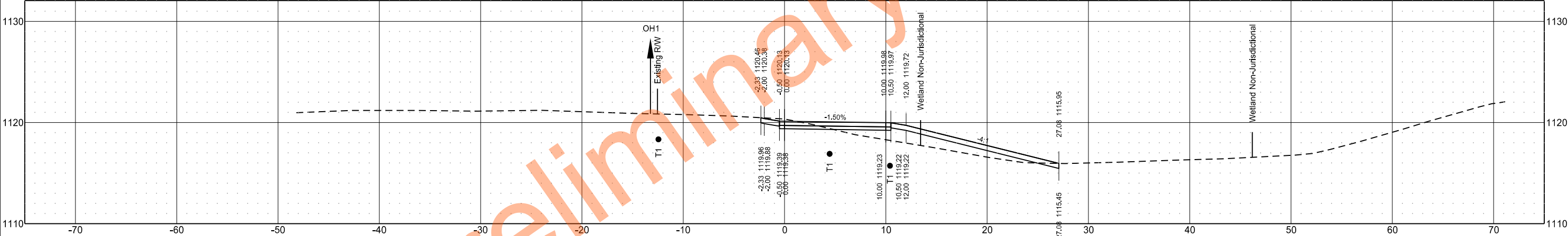
200

26

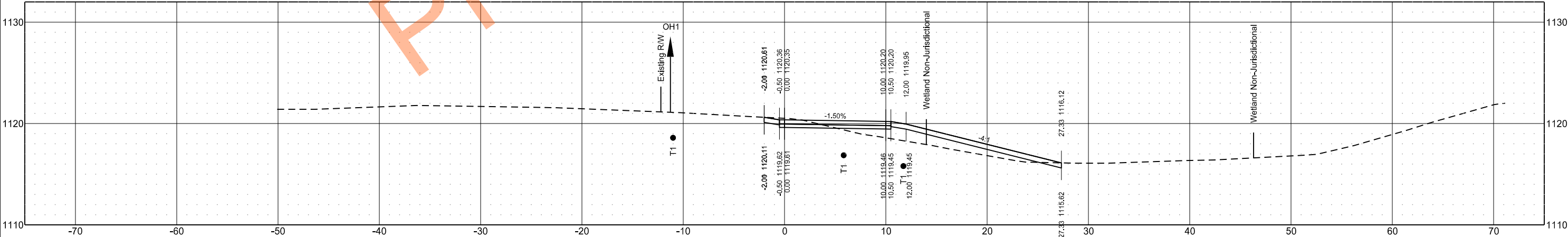
Sta 14+00.00



Sta 13+80.00



Sta 13+60.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

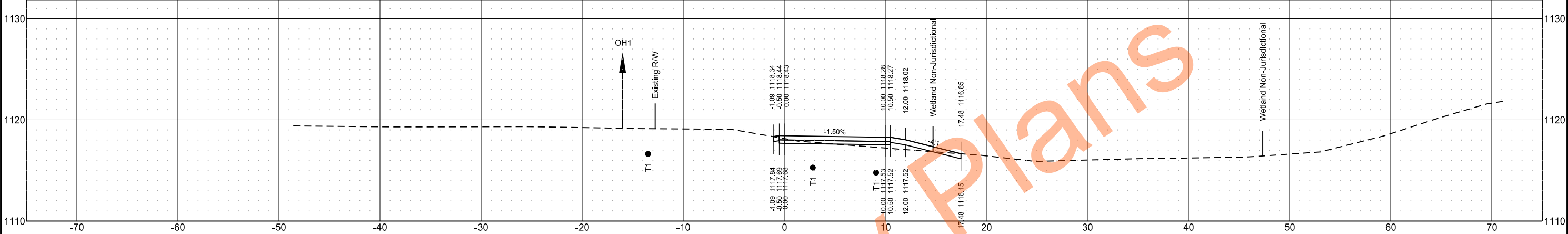
ND

NDS-SS-8-011(053)153

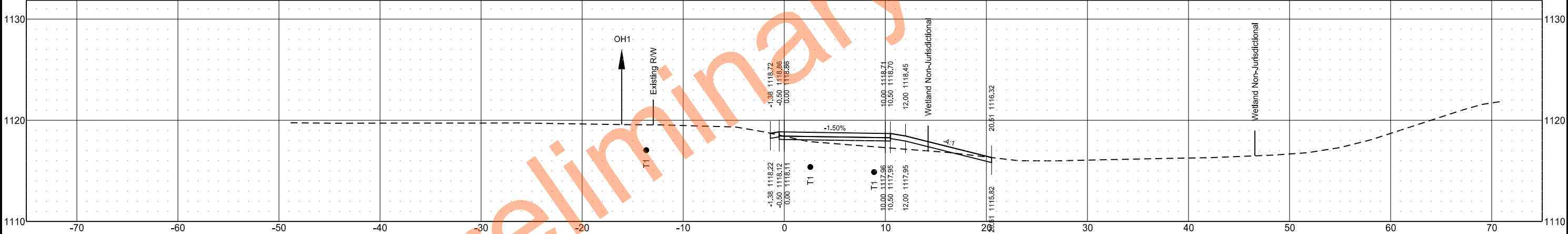
200

27

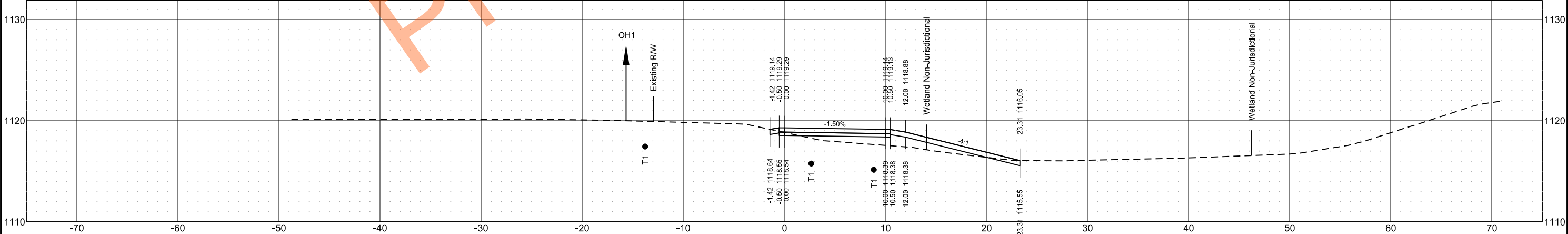
Sta 14+60.00



Sta 14+40.00



Sta 14+20.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

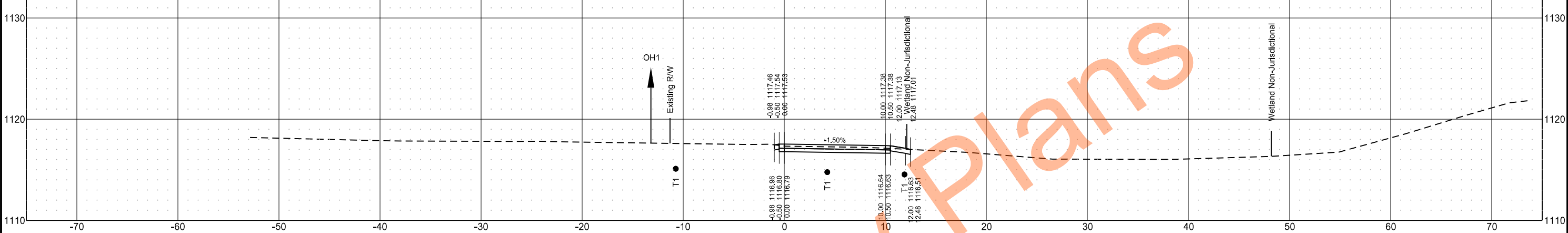
ND

NDS-SS-8-011(053)153

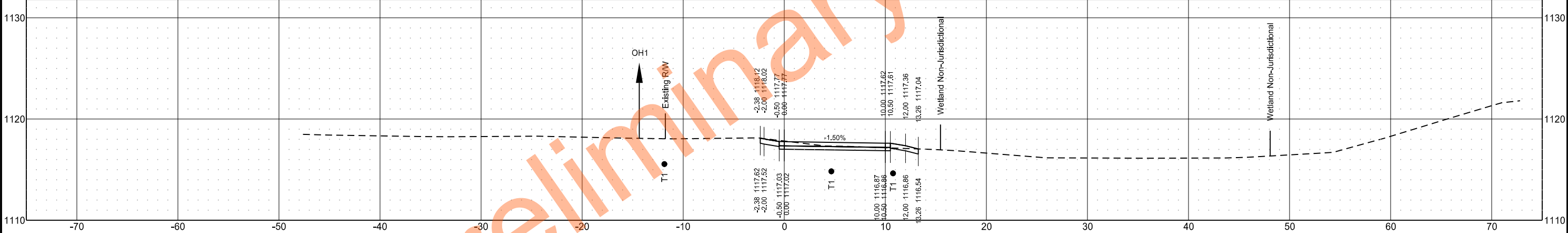
200

28

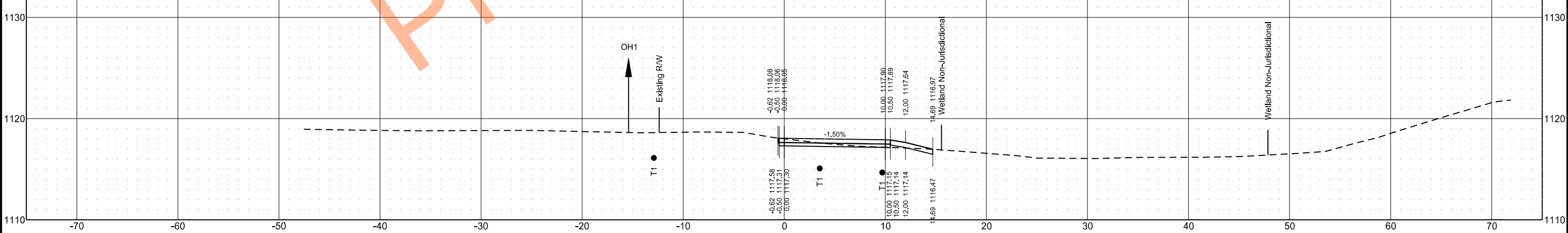
Sta 15+20.00



Sta 15+00.00



Sta 14+80.00



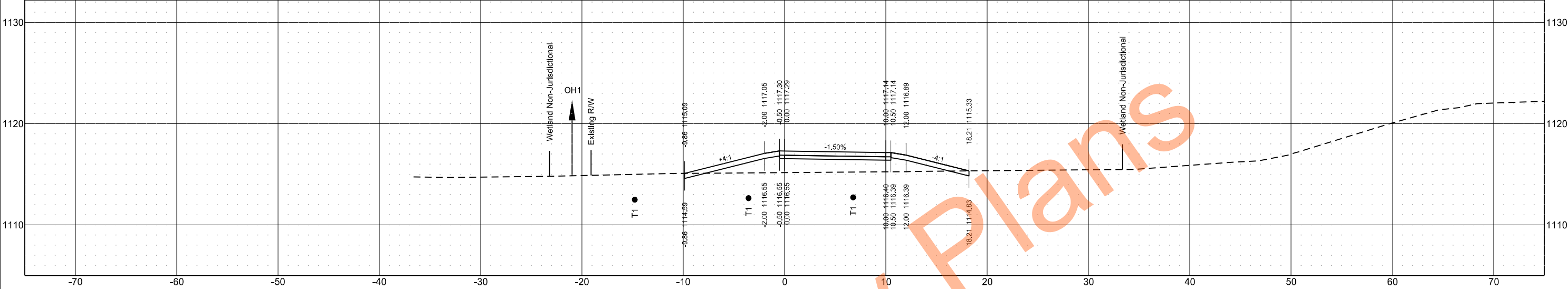
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	29



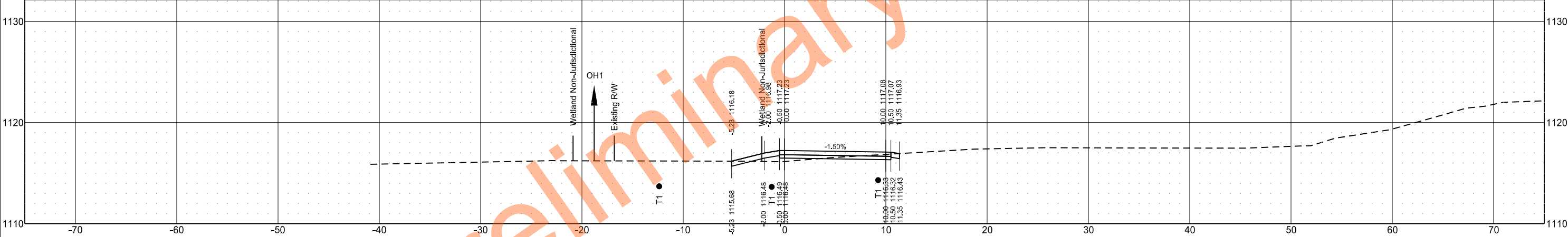
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	200	30

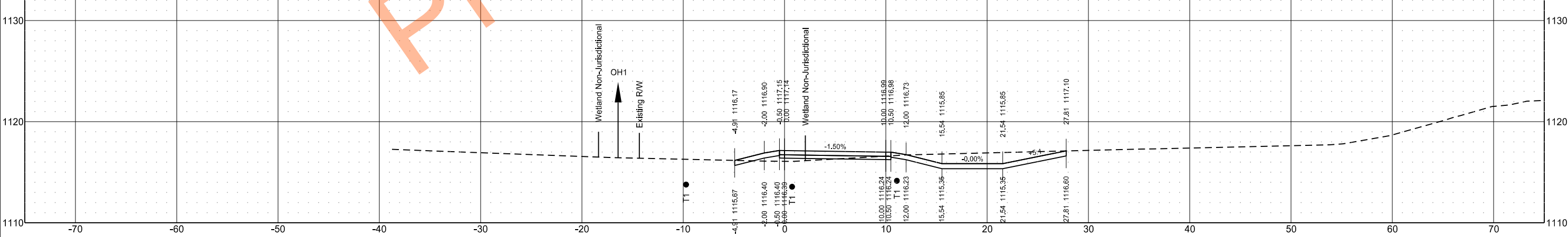
Sta 16+40.00



Sta 16+20.00



Sta 16+00.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION NO.

SHEET NO.

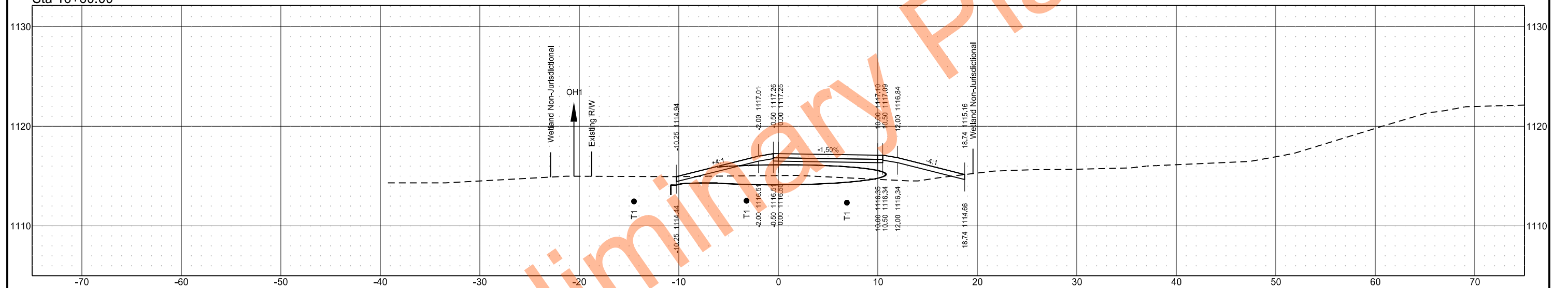
ND

NDS-SS-8-011(053)153

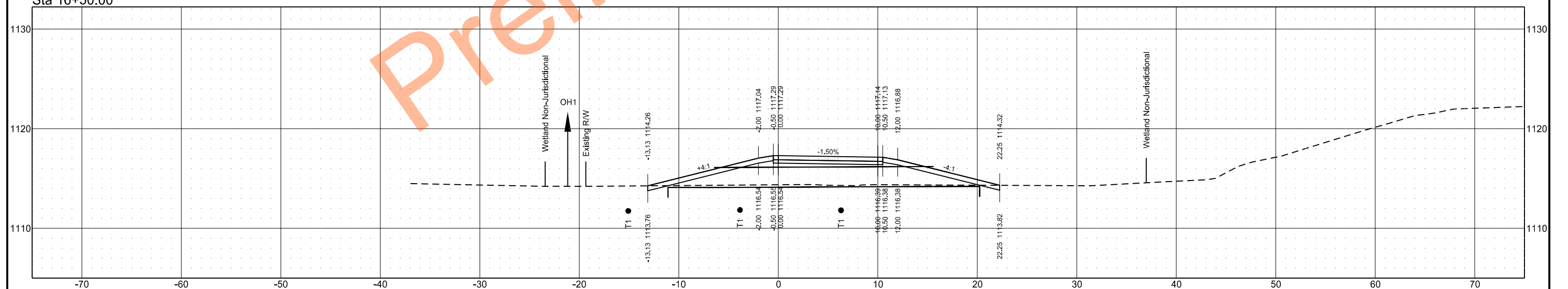
200

31

Sta 16+60.00



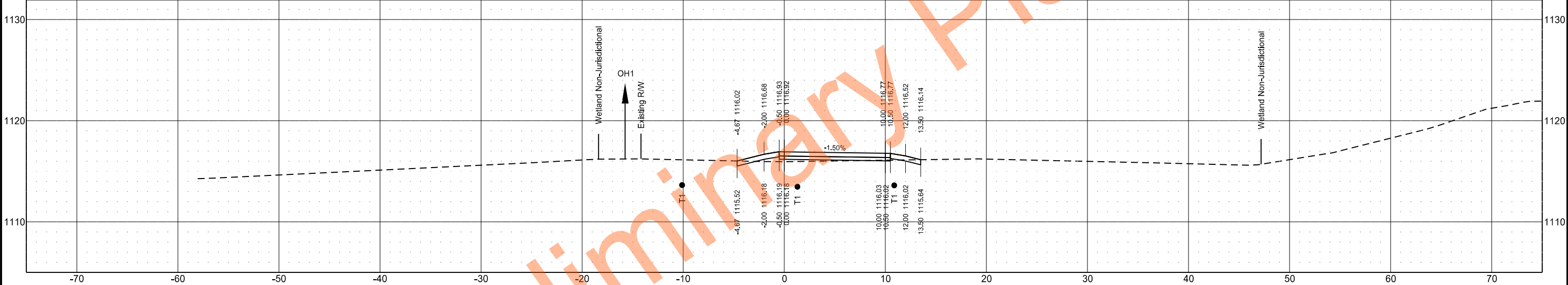
Sta 16+50.00



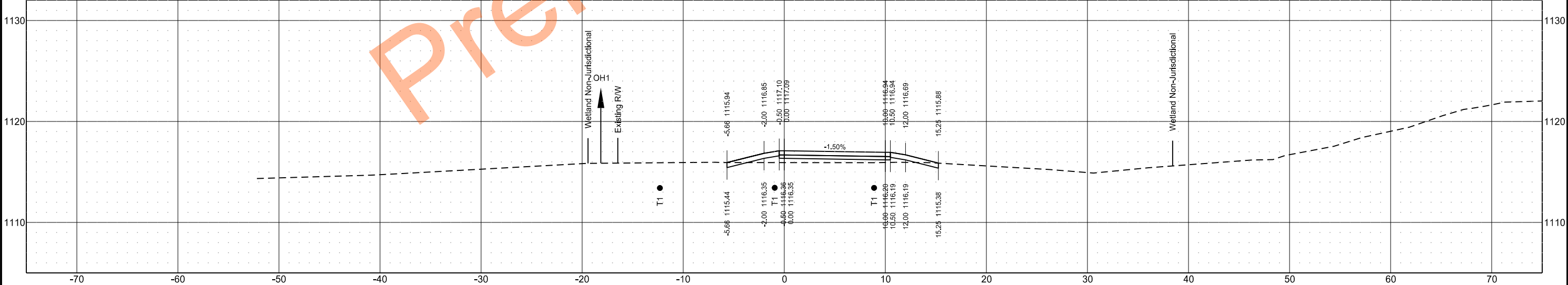
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	32

Sta 17+00.00



Sta 16+80.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

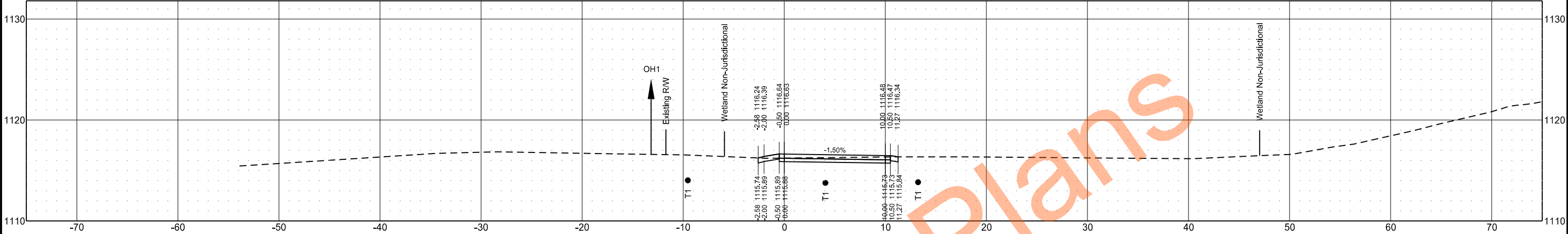
ND

NDS-SS-8-011(053)153

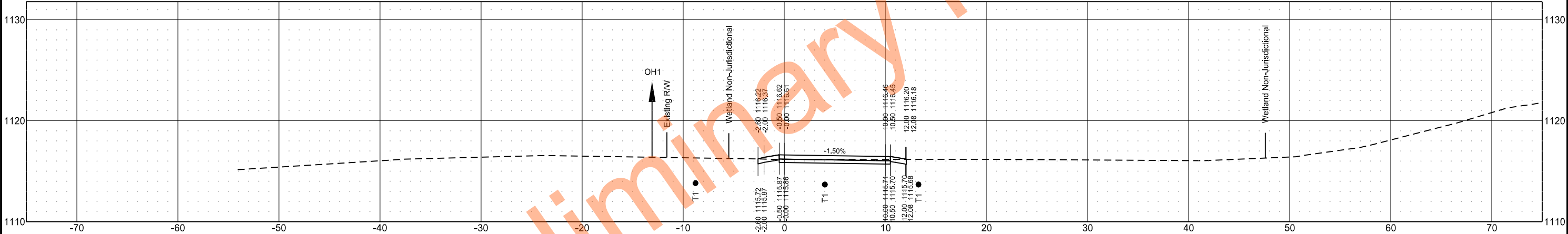
200

33

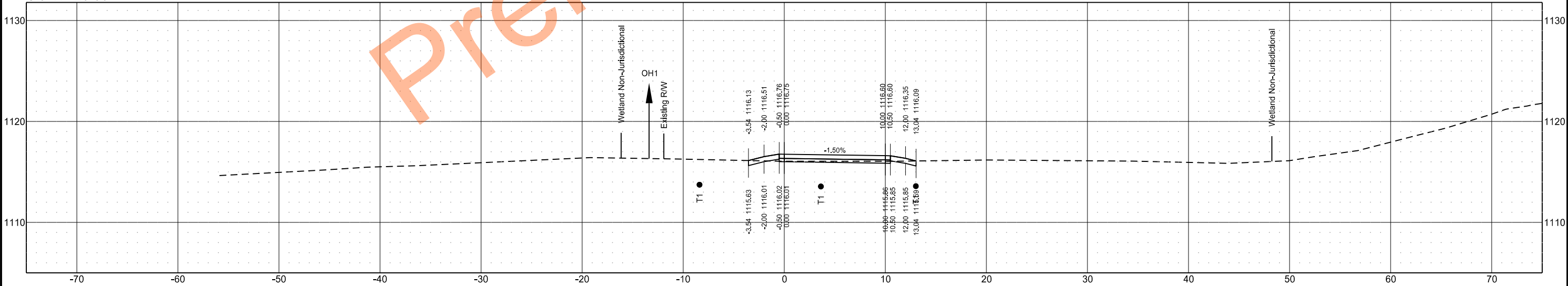
Sta 17+60.00



Sta 17+40.00



Sta 17+20.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

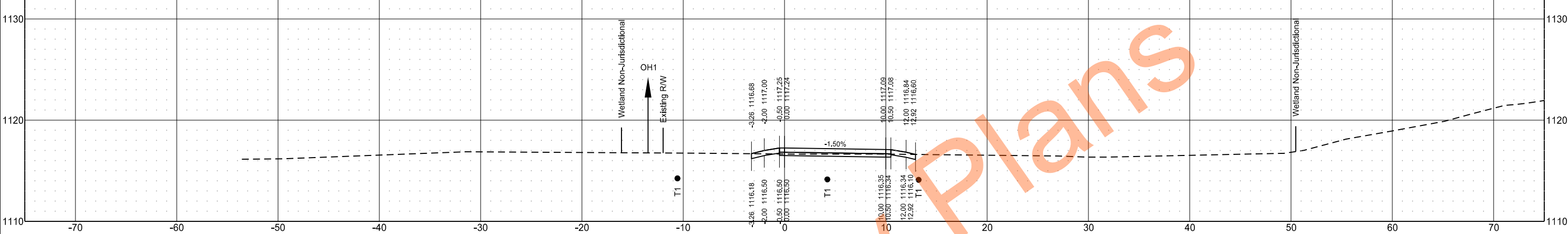
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NDS-SS-8-011(053)153

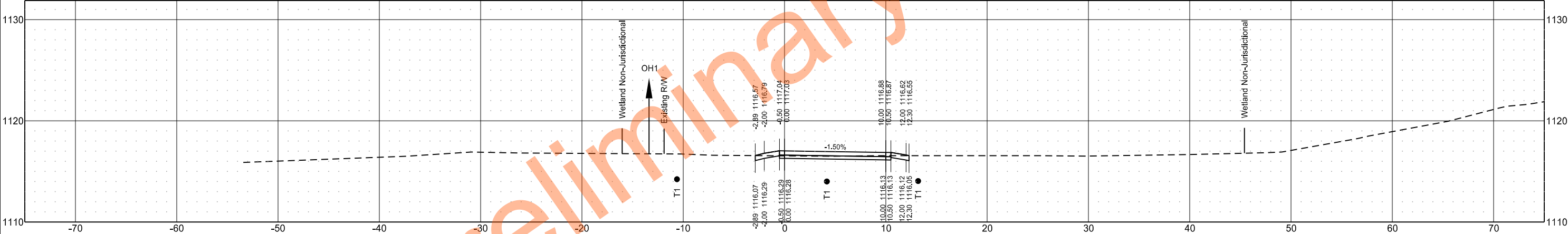
200

34

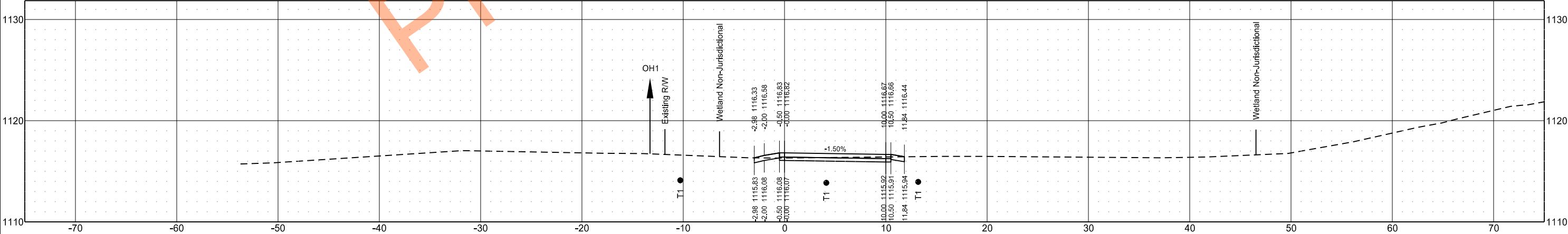
Sta 18+20.00



Sta 18+00.00



Sta 17+80.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

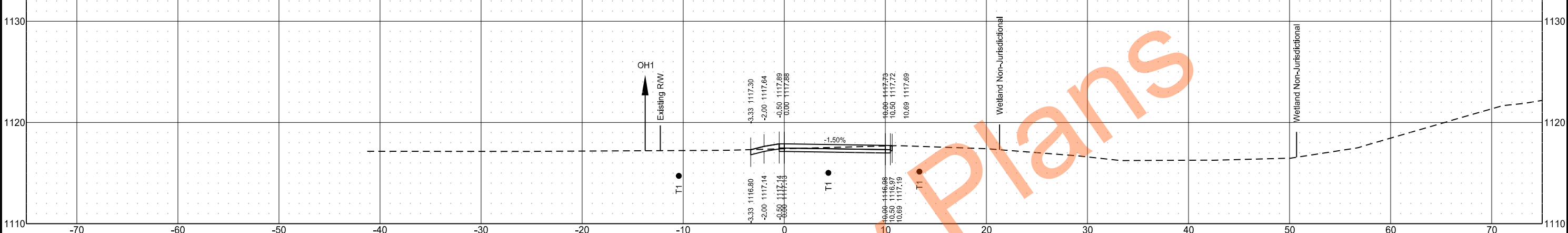
ND

NDS-SS-8-011(053)153

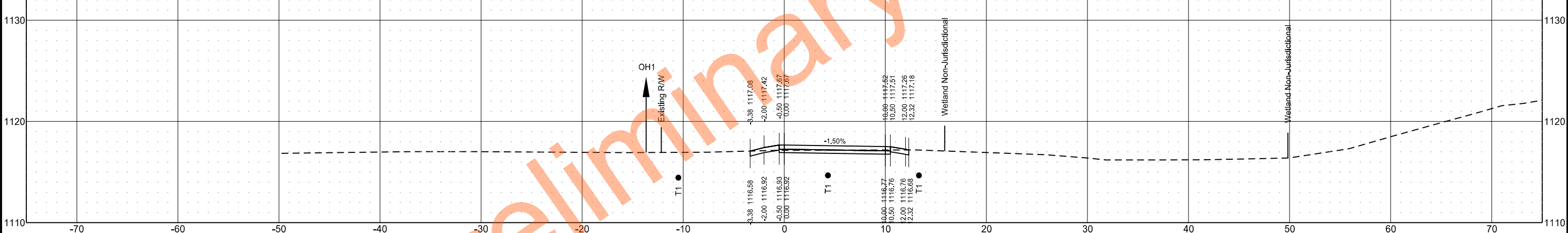
200

35

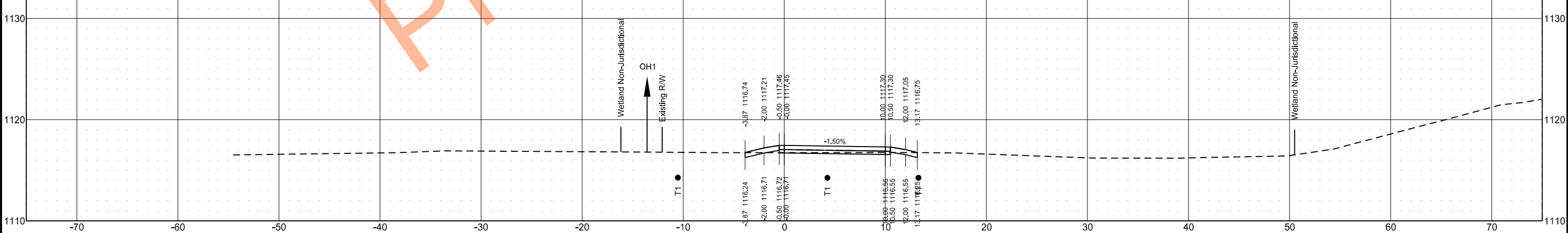
Sta 18+80.00



Sta 18+60.00



Sta 18+40.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

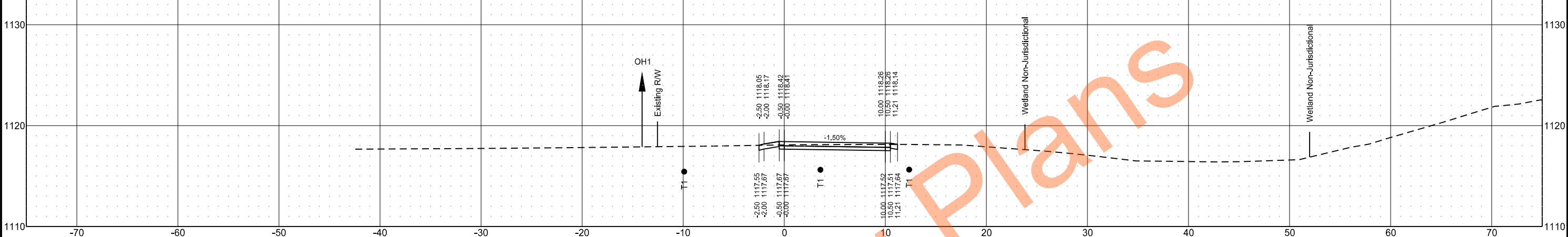
ND

NDS-SS-8-011(053)153

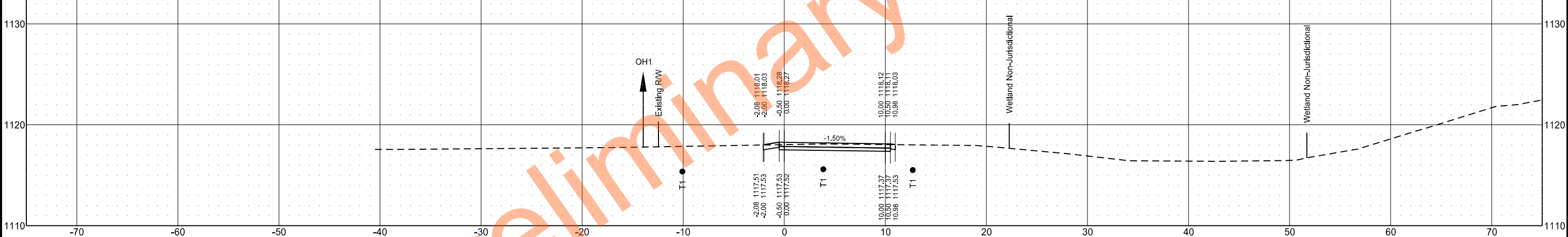
200

36

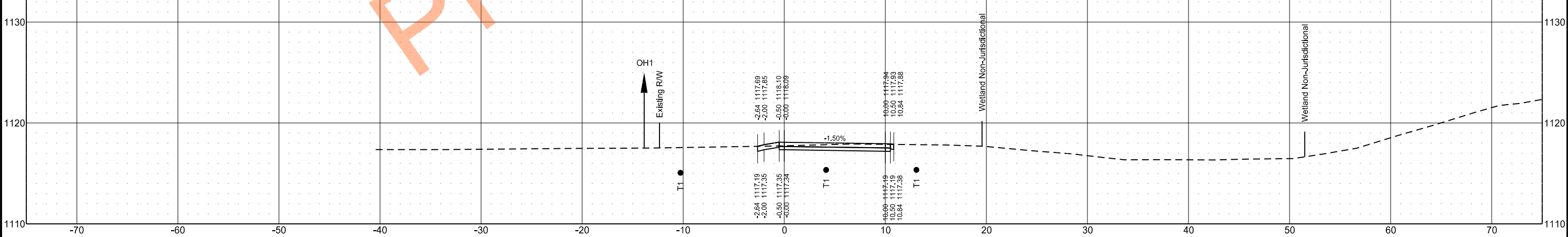
Sta 19+40.00



Sta 19+20.00



Sta 19+00.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

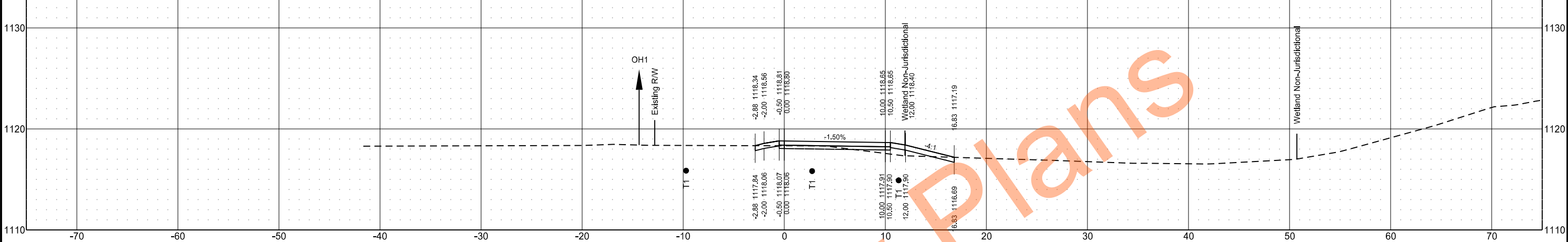
ND

NDS-SS-8-011(053)153

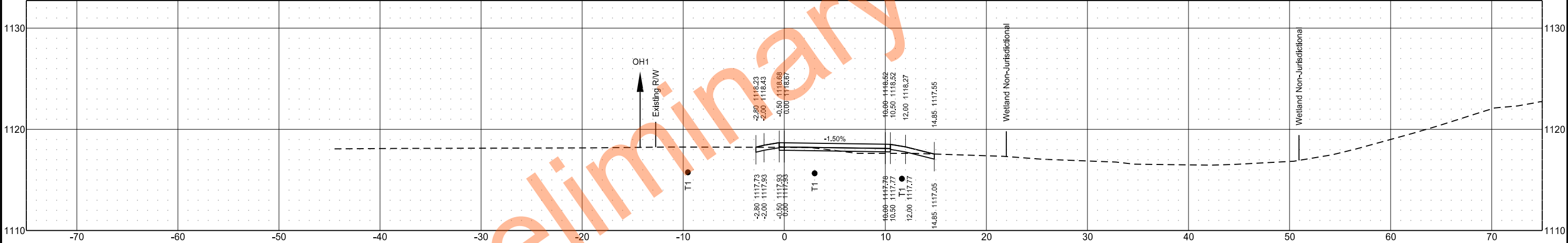
200

37

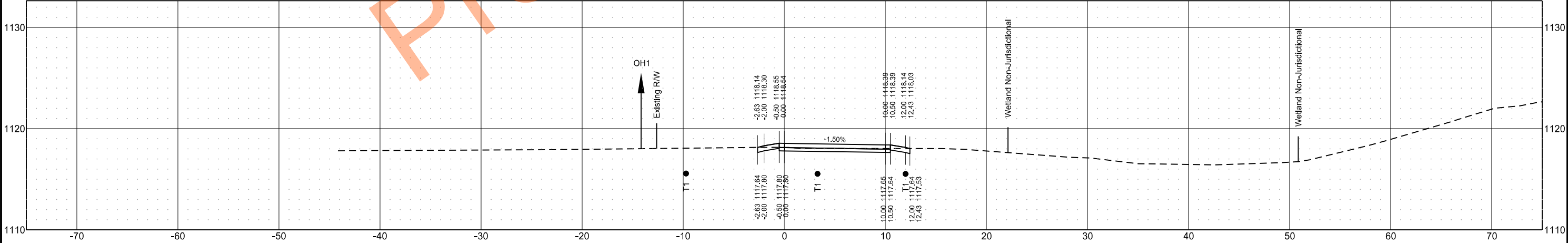
Sta 20+00.00



Sta 19+80.00



Sta 19+60.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

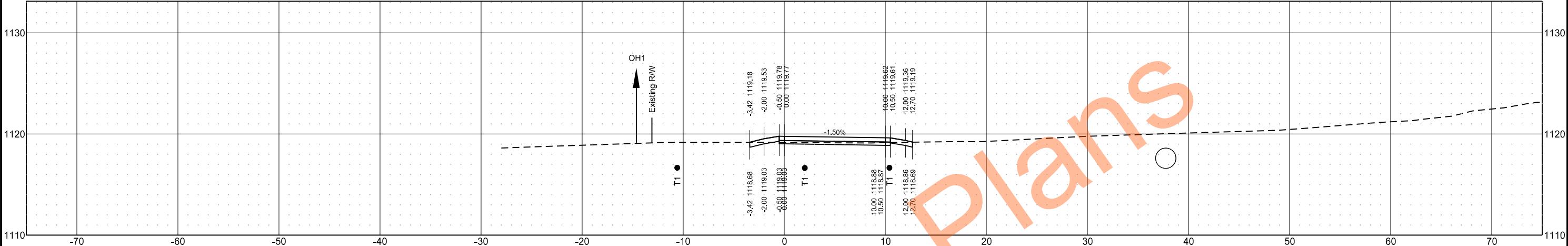
ND

NDS-SS-8-011(053)153

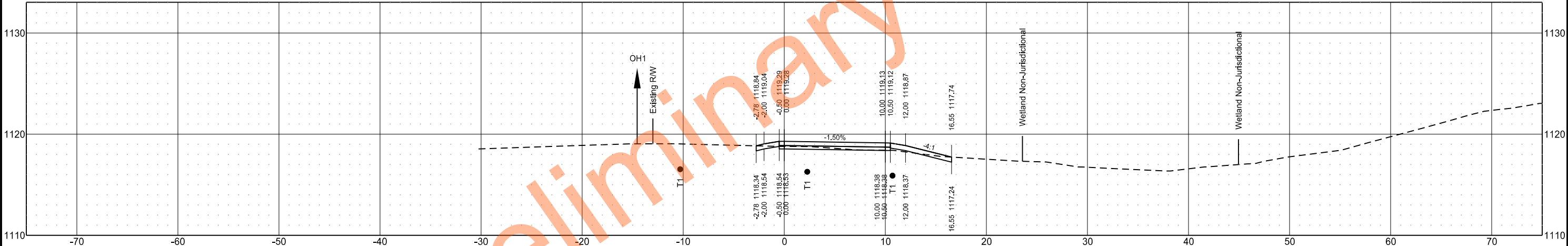
200

38

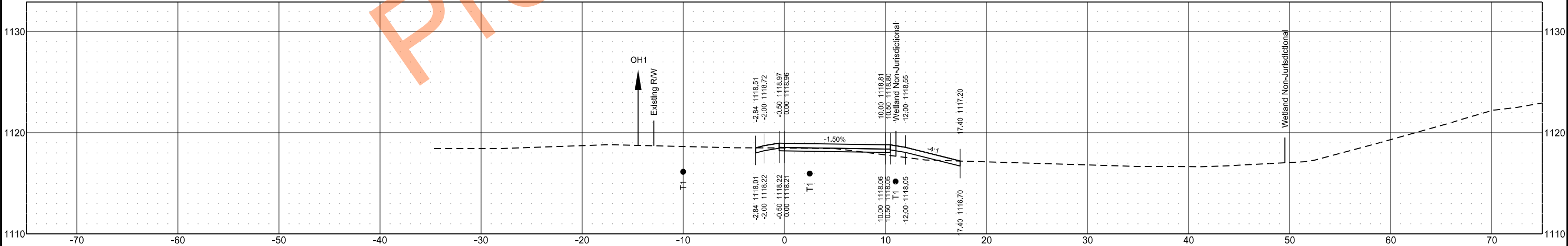
Sta 20+60.00



Sta 20+40.00



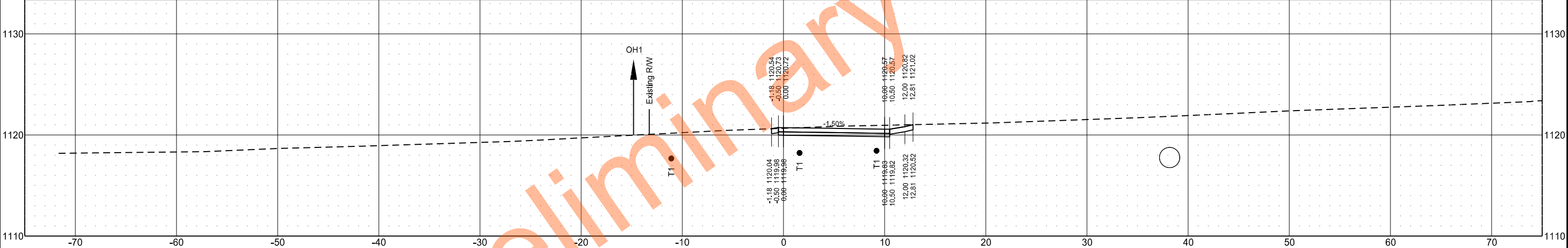
Sta 20+20.00



Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Sta 20+97.00



Sta 20+80.00

