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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				

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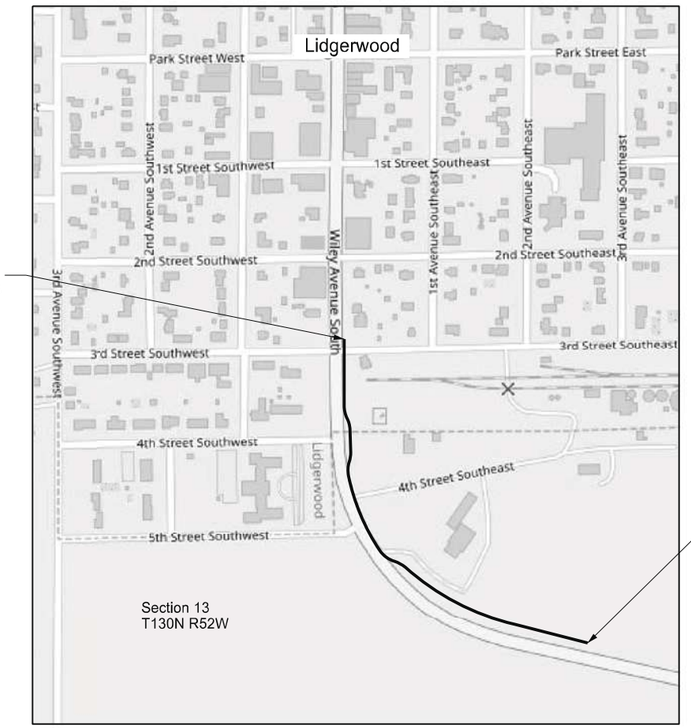
NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

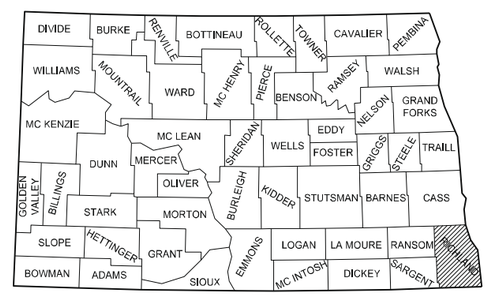
NDS-SS-8-011(053)153

Richland County
From 3rd St SE to Dollar General Store
ND 11 in Lidgerwood
Shared Use Path

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





STATE COUNTY MAP

DESIGNER
Damon DeVillers
DESIGNER
Zach Hatting
DESIGNER
Tim Pearson

ND DEPARTMENT OF TRANSPORTATION
OFFICE OF PROJECT DEVELOPMENT

Jonathan Ketterling
Jonathan Ketterling 08/28/26

INTERSTATE ENGINEERING

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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Section	Page(s)	Description
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2	1	Table of Contents
4	1	Scope of Work
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8	1 - 2	Quantities
10	1	Basis of Estimate
11	1 - 2	Data Tables
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30	1	Typical Sections
40	1 - 3	Removals
51	1	Allowable Pipe List
60	1 - 6	Plan & Profile
75	1 - 2	Wetland Impacts
76	1 - 3	Temporary Erosion Control
77	1 - 3	Permanent Erosion Control
81	1	Survey Coordinate and Curve Data
82	1 - 2	Survey Data Layouts
90	1 - 3	Paving Layouts
100	1 - 5	Work Zone Traffic Control
110	1 - 4	Signing
120	1 - 3	Pavement Marking
200	1 - 39	Cross Sections

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

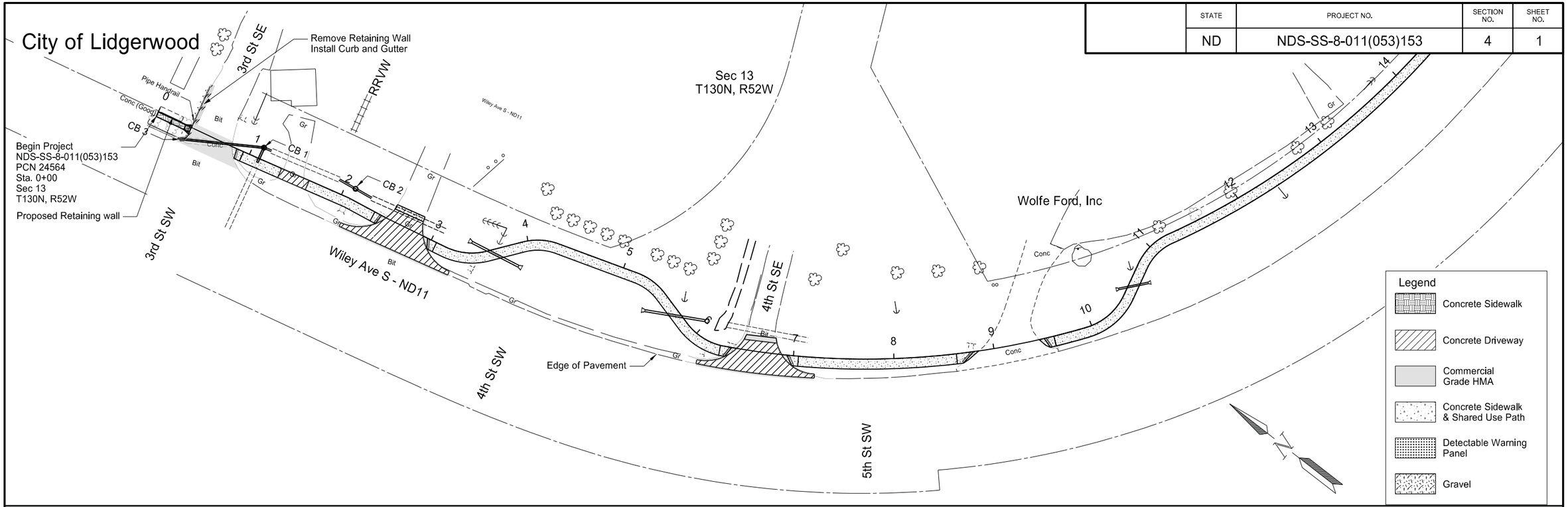
LIST OF STANDARD DRAWINGS

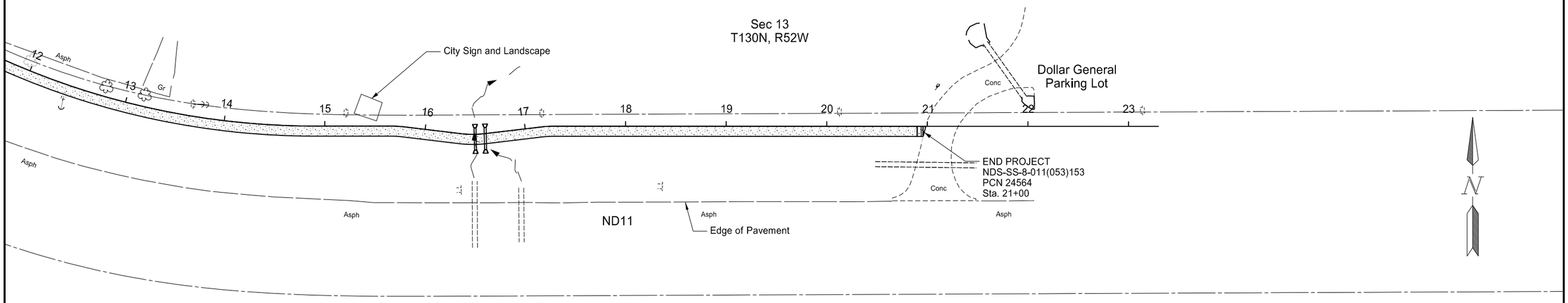
Number	Description
D-101-1, 2,3,4	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31,32,33	Symbols
D-101-40	Cross Section Legend
D-256-1	Erosion And Siltation Controls
D-260-1	Erosion And Siltation Controls - Silt Fence
D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
D-704-9	Construction Sign Details - Terminal And Guide Signs
D-704-10	Construction Sign Details - Regulatory Signs
D-704-12	Shoulder Closure Tapers
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-704-20	Terminal And Seal Coat Sign Layouts
D-704-25	Lane Closures On Urban Streets Layouts
D-704-26	Miscellaneous Sign Layouts
D-704-50	Portable Sign Support Assembly
D-714-1	Reinforced Concrete Pipe Culverts And End Sections (Round Pipe)
D-714-4	Round Corrugated Steel Pipe Culverts And End Sections
D-714-5	Corrugated Steel Pipe Arch Culverts And End Sections
D-714-22	Concrete Pipe, Cattle Pass, or Precast Concrete Box Culvert Ties
D-714-26	Transverse Mainline Pipe Installation Detail - Pipes 4 Feet or Less Below Top of Subgrade
D-722-1A	Inlet - Catch Basin
D-722-1B	Inlet - Special
D-748-1	Curb & Gutter And Valley Gutter
D-750-1	Concrete Driveway - Urban
D-750-2	Sidewalk
D-750-3	Curb Ramp Retrofit Details
D-750-4	Curb Ramp Retrofit Transitional Area Details
D-754-23	Perforated Tube Assembly Details
D-754-24, 25	Mounting Details Perforated Tube
D-754-24A	Breakaway Coupler System For Perforated Tubes
D-754-27	Sign Punching, Stringer and Support Location Details Regulatory, Warning and Guide Signs
D-754-46	Punching, Stringer and Support Location Details for Regulatory, Warning and Guide Bike Route Signs
D-754-86	911 Sign Support Information And Sign Details
D-762-1	Pavement Marking Message Details

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City of Lidgerwood





Scope of Work

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
ENGINEER
NORTH DAKOTA
8/26/2026

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NOTES

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.

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.

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.

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.

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 4th 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.

203-010 SHRINKAGE: 35 percent additional volume is included for shrinkage in earth embankment.

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.

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.

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 4th 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.

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 respreading the existing topsoil. “TOPSOIL” will be paid at plan quantity.

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.

203-P01 BORROW EXCAVATION: Contractor shall furnish borrow material for the project.

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

253-P01 REMOVE AND REPLACE ROCK RIPRAP: Contractor shall remove and replace the existing rock riprap at 4th 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”.

704-P01 FLAGGING: Flagging hours are for intersection work.

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.

704-P03 STREET CLOSURES: The following street closures shall be permitted:

1. 3rd Street SE – Closed for a maximum of 3 weeks.
2. Exit Roadway from the elevator – Closed for a maximum of 3 weeks.
3. 4th Street SE – Closed for a maximum of 3 weeks.

The Contractor shall **NOT** be allowed to have the Exit Roadway from the Elevator and 4th St SE closed at the same time.

Damon K. DeVilliers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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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 NDDDOT 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

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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Estimated Quantities

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

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Estimated Quantities

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

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BASIS OF ESTIMATE

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

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
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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						
	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.

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
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Data Tables
From 3rd St SE to Dollar General Store
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EARTHWORK VOLUMES BY STATION

1	Excavation 2	Embankment 3	4	5	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

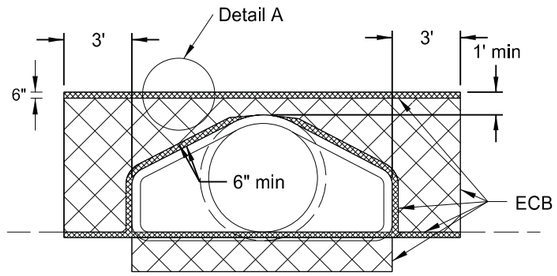
1	Excavation 2	Embankment 3	4	5	6
Station	Volume CY	Volume CY	Factor	Adjusted CY	Mass Ordinate CY
12+00	4	0	1.35	0	-1061
12+20	3	2	1.35	3	-1061
12+40	2	5	1.35	7	-1066
12+60	2	7	1.35	9	-1073
12+80	2	9	1.35	12	-1083
13+00	3	10	1.35	14	-1094
13+20	3	11	1.35	15	-1106
13+40	1	12	1.35	16	-1121
13+60	1	16	1.35	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	

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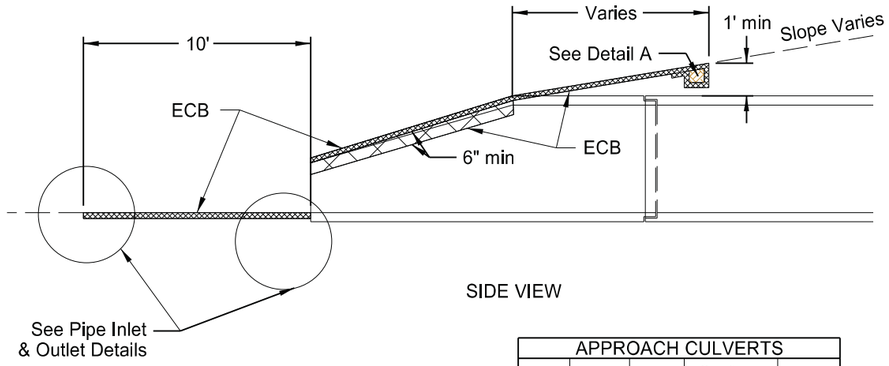
Data Tables
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared Use Path
Richland County, North Dakota

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

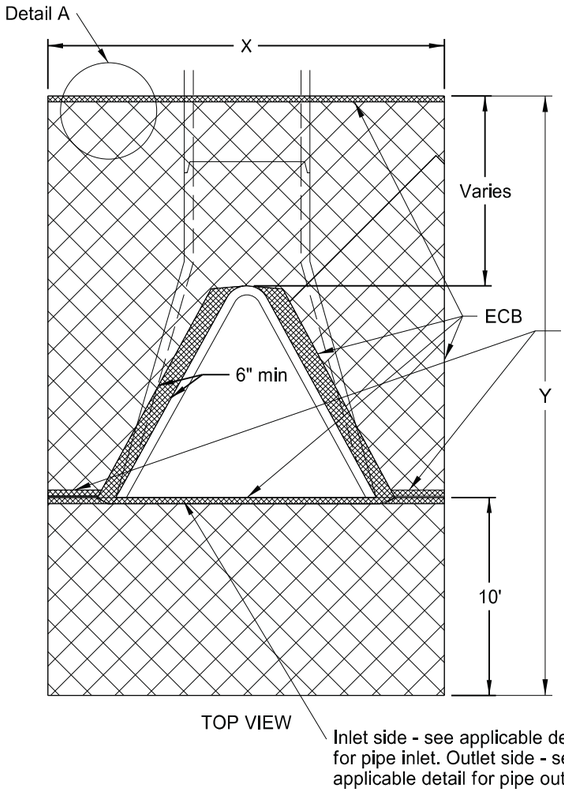
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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FRONT VIEW

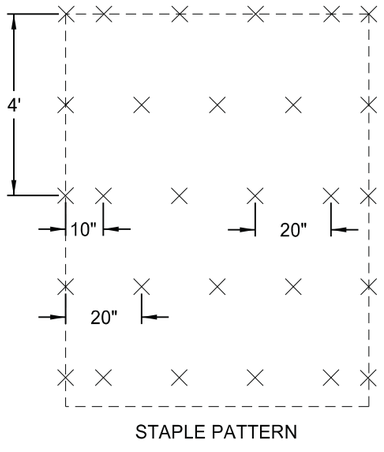


SIDE VIEW



TOP VIEW

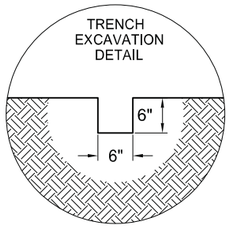
NOTE: Tuck the ECB a minimum of 6" into the embankment (against the flared end section) around the opening of the flared end section.

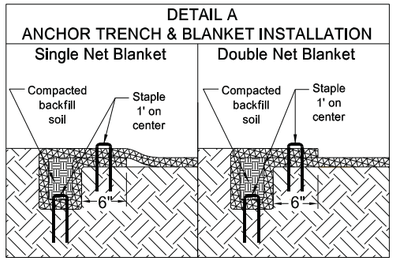


STAPLE PATTERN

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.





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		

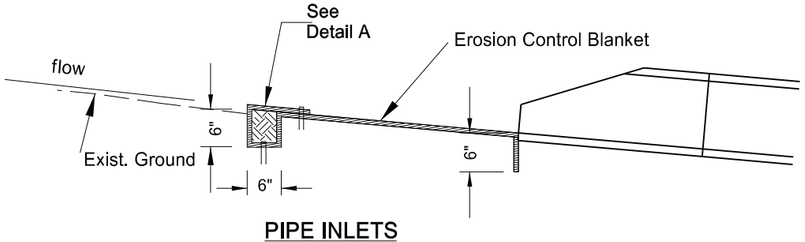
Note 1 - Road slope and inlet.

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

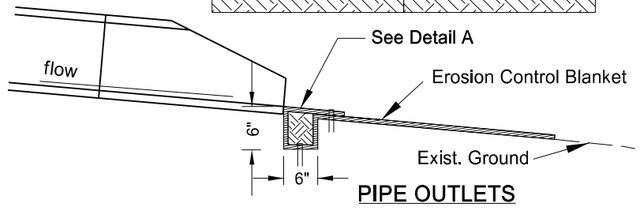
Note: Quantities based on 6:1 slope.

CENTERLINE CULVERTS				
DIA	X	Y	Surface area to be protected	ECB
In	Ft	Ft	SF	SY
24	10.5	17.6	172.1	20
27	11.0	18.0	182.3	21
30	11.6	18.5	195.1	22
36	12.7	19.2	216.7	24
42	13.3	19.2	225.2	25
48	13.8	20.0	238.0	27
54	14.5	19.5	244.7	28
60	15.0	19.0	248.3	28
66	15.6	20.0	264.5	30
72	16.2	20.5	276.8	31

Note: Quantities based on 4:1 slope.



PIPE INLETS



PIPE OUTLETS

Erosion Control at Culvert Flared End Section

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

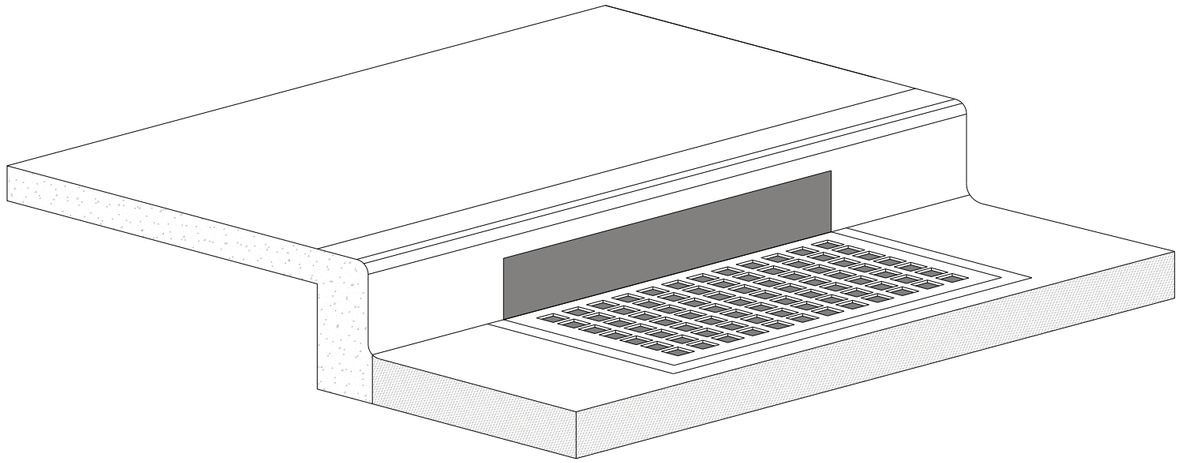
Shared Use Path

Richland County, North Dakota

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

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Inlet Protection-Special

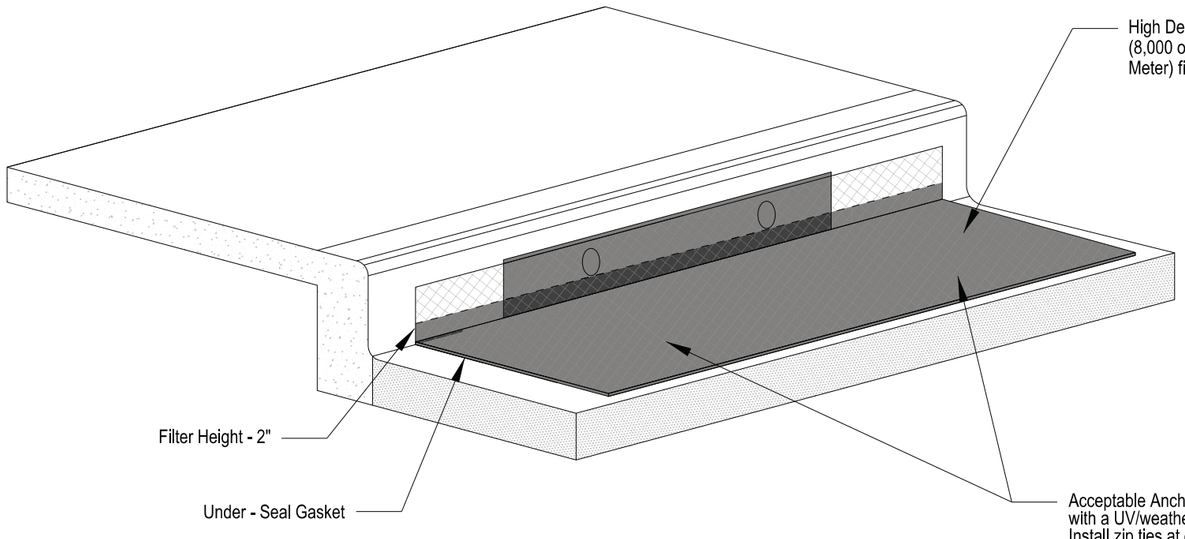
Installation Notes:

1. Place device tightly against drain opening and cover entire grate. Extend the device at least 2 inches past the grate toward the street.
2. Overlap the segments at longer openings.
3. Anchor the device so that water cannot flow behind it.

General Notes:

1. Remove material that falls into the inlet during maintenance or removal of the device.

Inlet Protection-Special		
Location to be Protected Station	Inlet Type	Total Quantity (EA)
0+32 Rt	Curb Inlet	1
	Total (EA)	1



Inlet Protection-Special

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

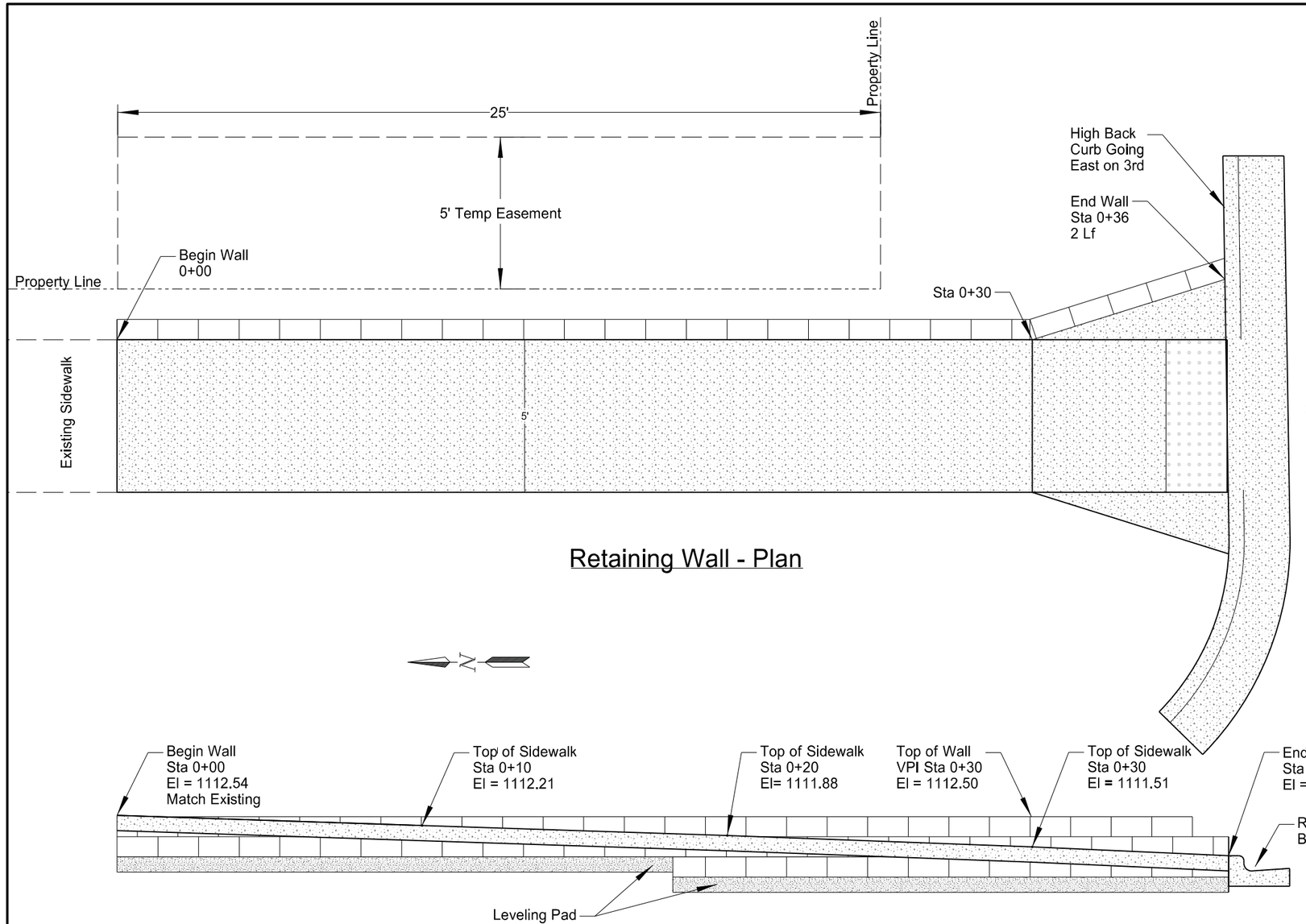
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P.E. 3523
ENGINEER
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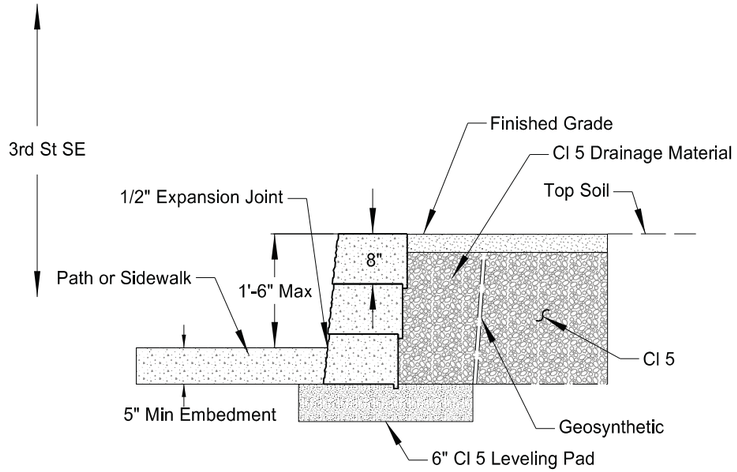
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SPEC	CODE	BID ITEM	UNIT	QTY
930	9543	RETAINING WALL		
0+00	to 0+36 Lt		SF	60



Retaining Wall - Plan

Retaining Wall - Profile



Retaining Wall - Detail

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.

0 40 80
SCALE IN FEET

Retaining Wall Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

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NOTES

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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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

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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

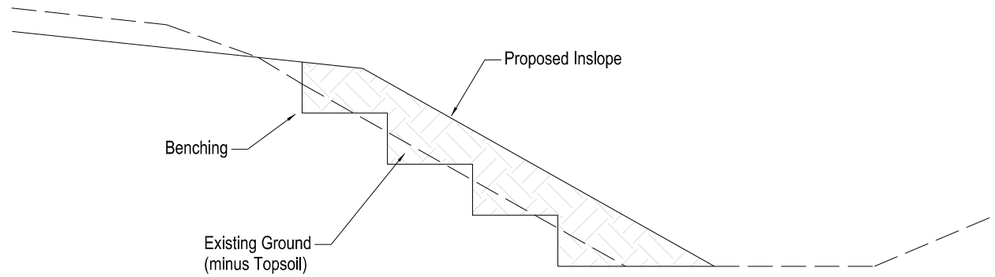
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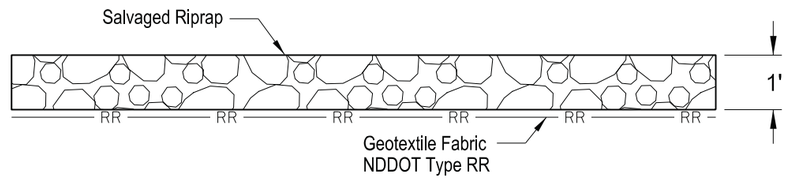
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ENGINEER
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Benching - Typical Section
Not To Scale



Salvaged Riprap Typical Section
Not to Scale

Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

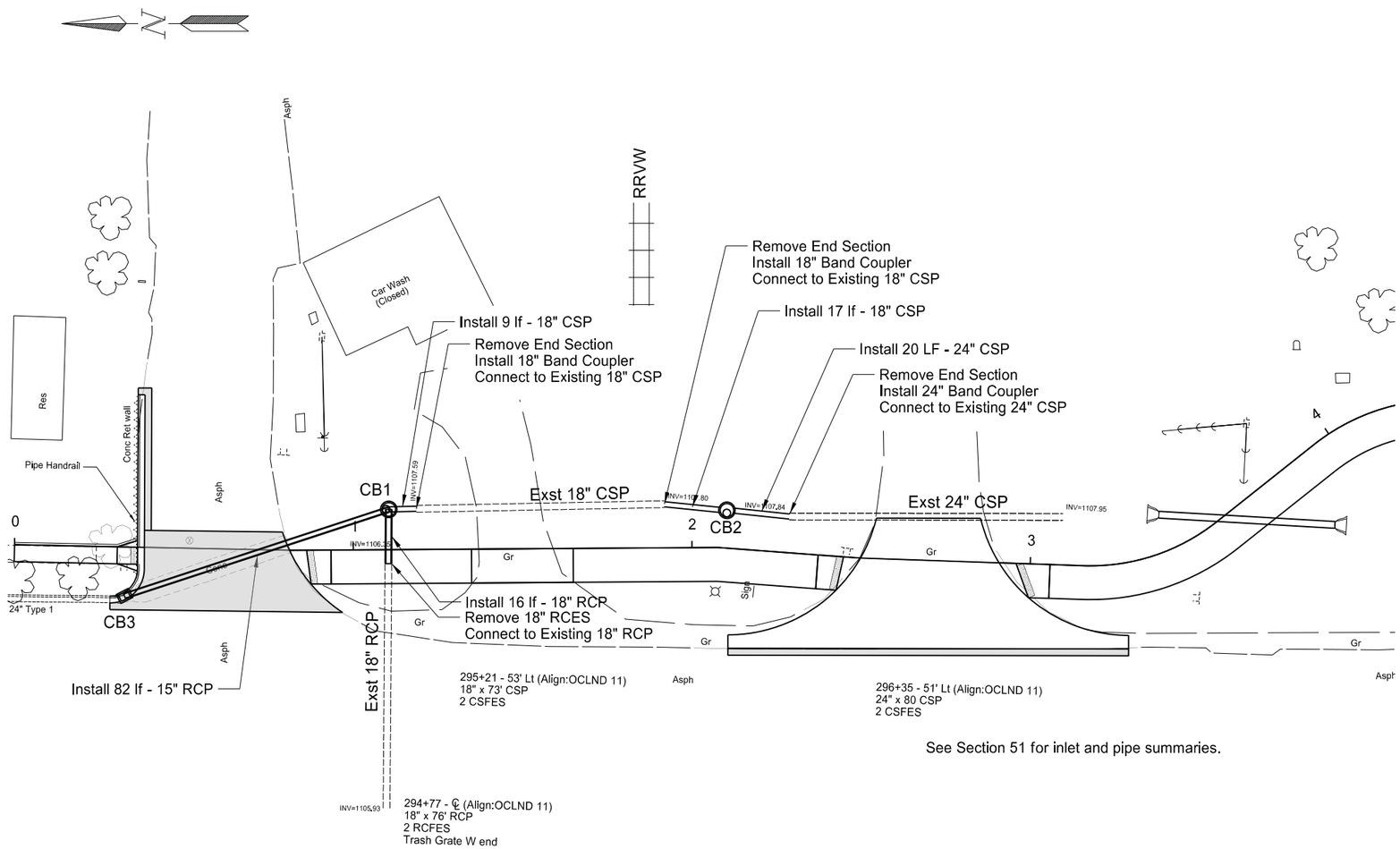
Shared Use Path

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See Section 51 for inlet and pipe summaries.

Storm Sewer Layout

0 40 80

SCALE IN FEET

Storm Sewer Layout

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

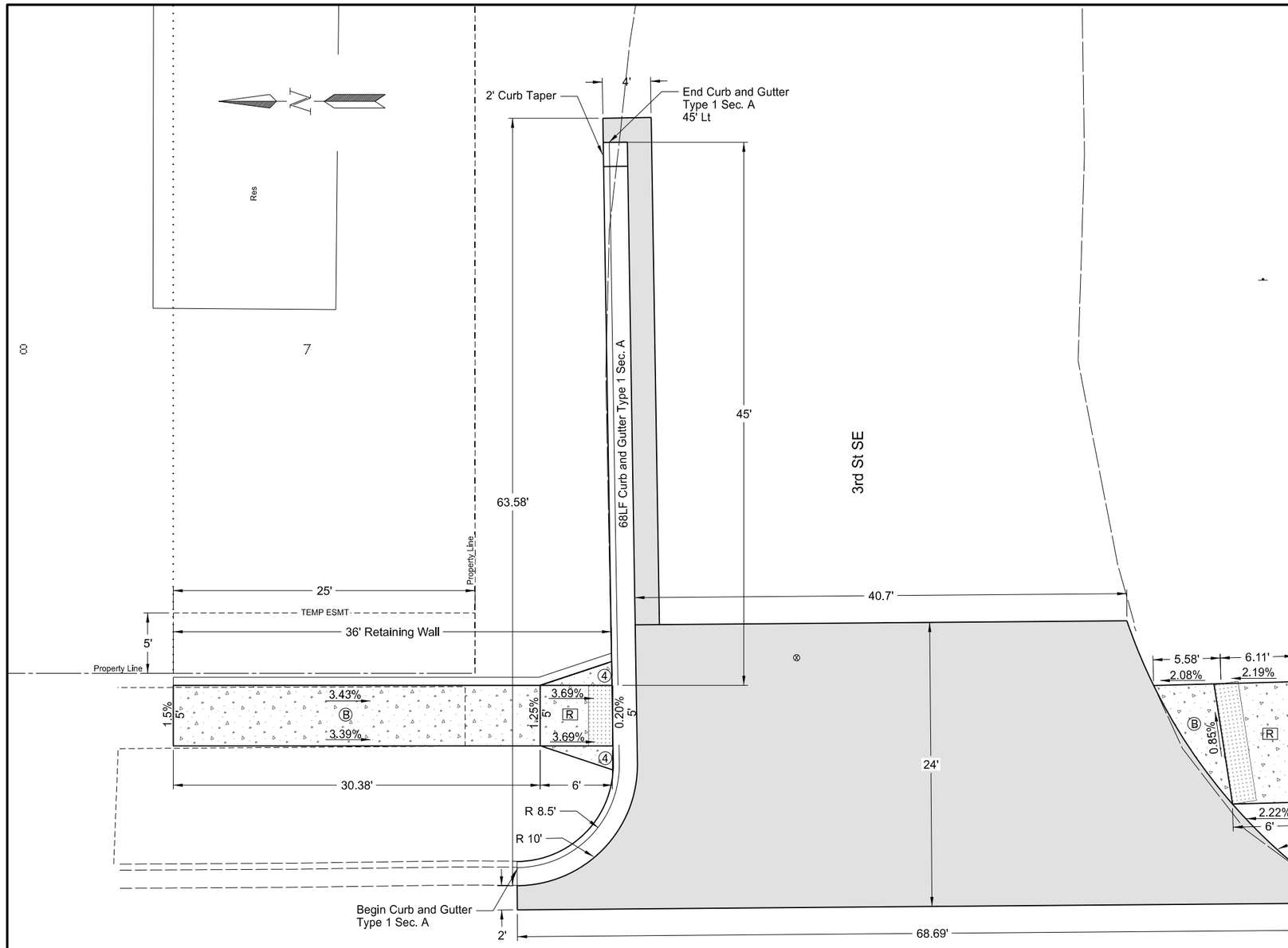
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	20	8



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

- (TS) Turning Space
  Use at top of ramp when changing directions
  Preferred Slope = 1.5%
  Maximum Slope = 2% all directions
- [R] 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)
- (B)
  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%
- [PTA] 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
- (4) Flare - 4:1 maximum constructed slope
- Commercial Grade HMA
- Sidewalk/Shared Use Path
- Detectable Warning Panel

ND11 - Wiley Ave S

ADA Ramp Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

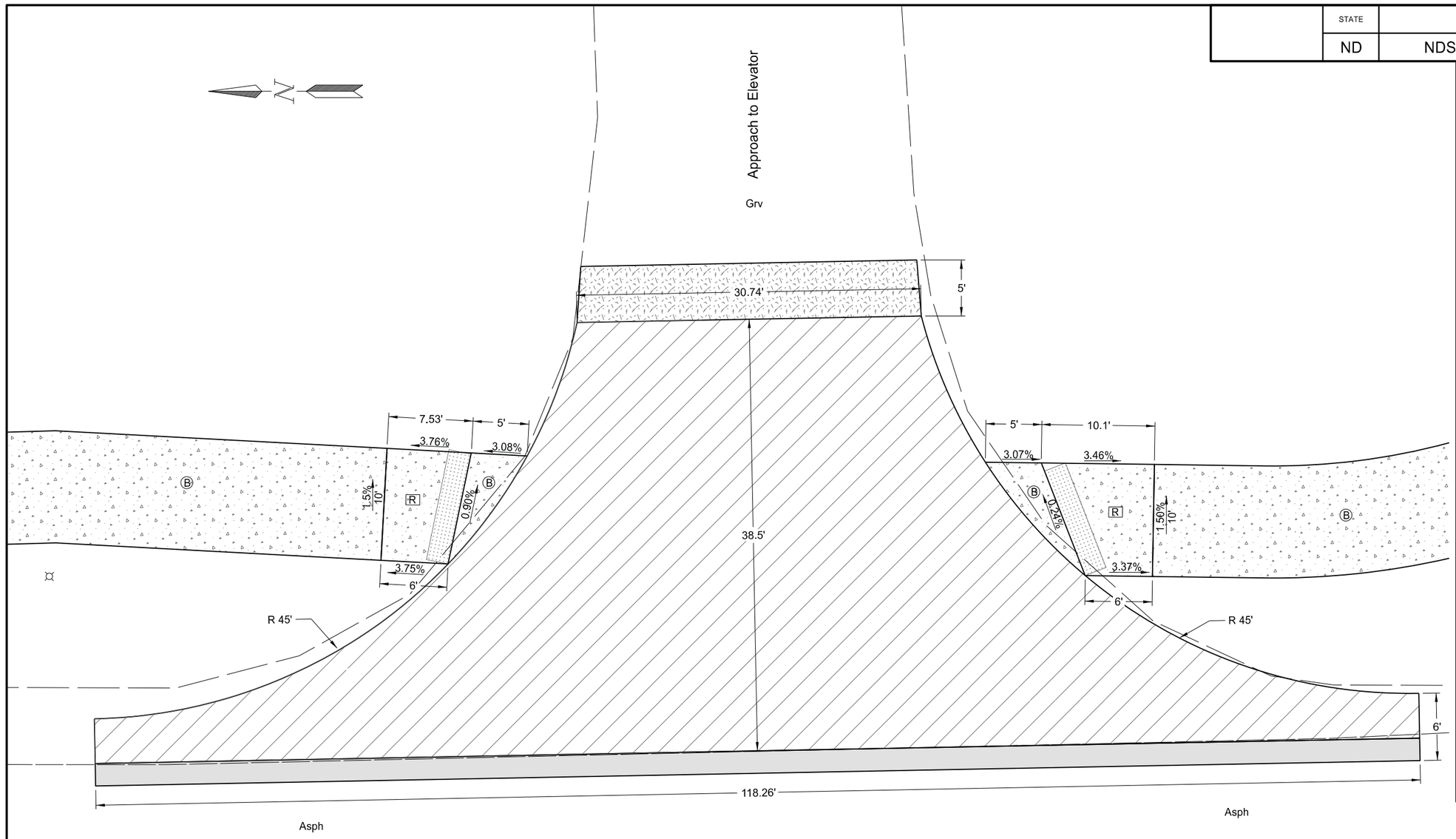
Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	20	9



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

- (TS) Turning Space
  Use at top of ramp when changing directions
  Preferred Slope = 1.5%
  Maximum Slope = 2% all directions
- (R) 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)
- (B) 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%
- (PTA) 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
- Commercial Grade HMA
- Shared Use Path
- Detectable Warning Panel
- Concrete Driveway
- Gravel Driveway

ND11

ADA Ramp Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

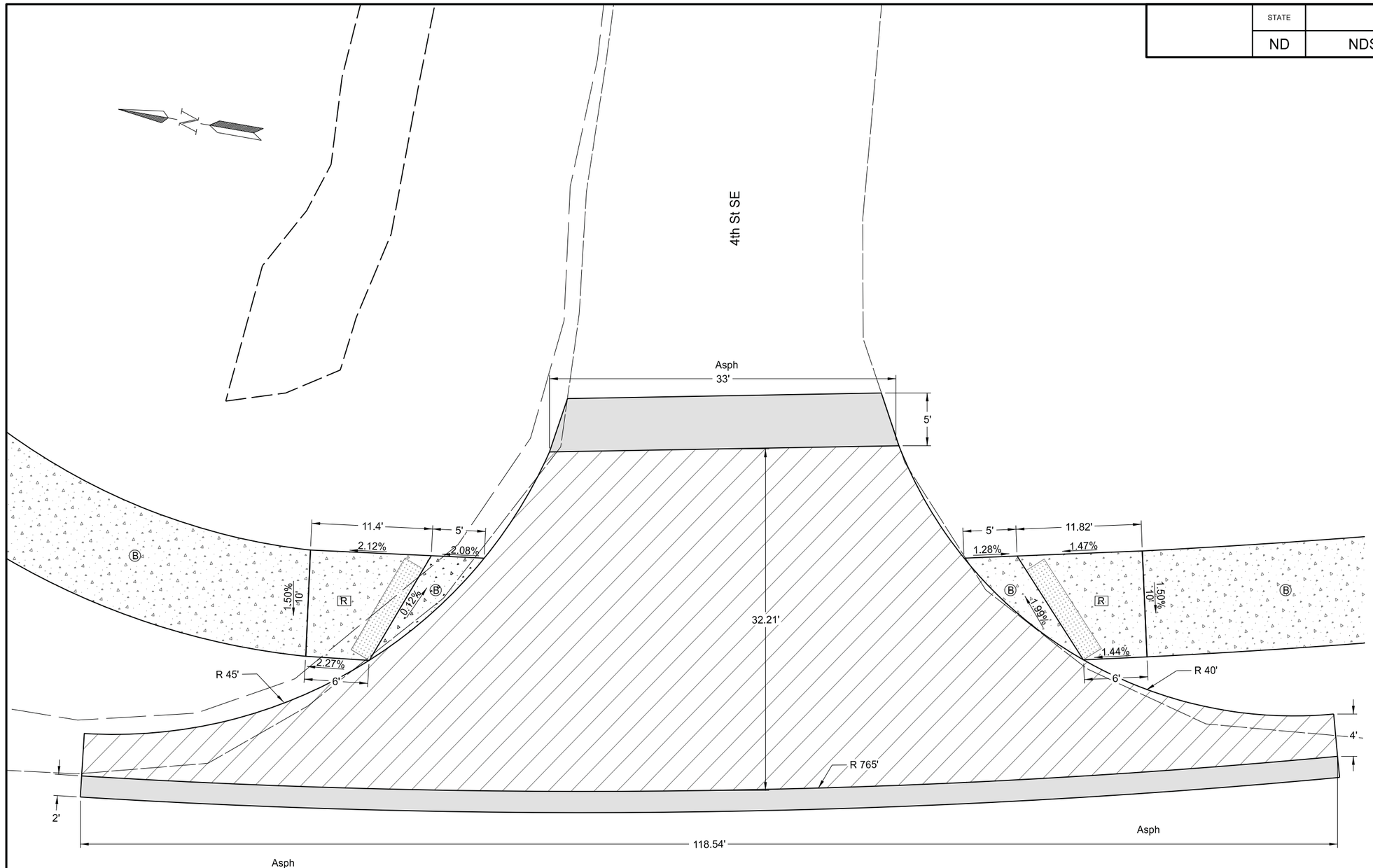
Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	20	10



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

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

R — 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)

B — 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%

PTA — 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

Commercial Grade HMA

Shared Use Path

Detectable Warning Panel

Concrete Driveway

ND11

ADA Ramp Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

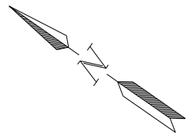
Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

8/20/2026 1:20:05 PM Tim.Pearson X:\2020\W\00\W20-00-104_Lidgerwood_SUP\CADD\080_Sheets\Section 020\020GD_009-13(ADA RAMPS).dgn

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	20	11



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 c 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

R 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%

PTA 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

ND11

ADA Ramp Details

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

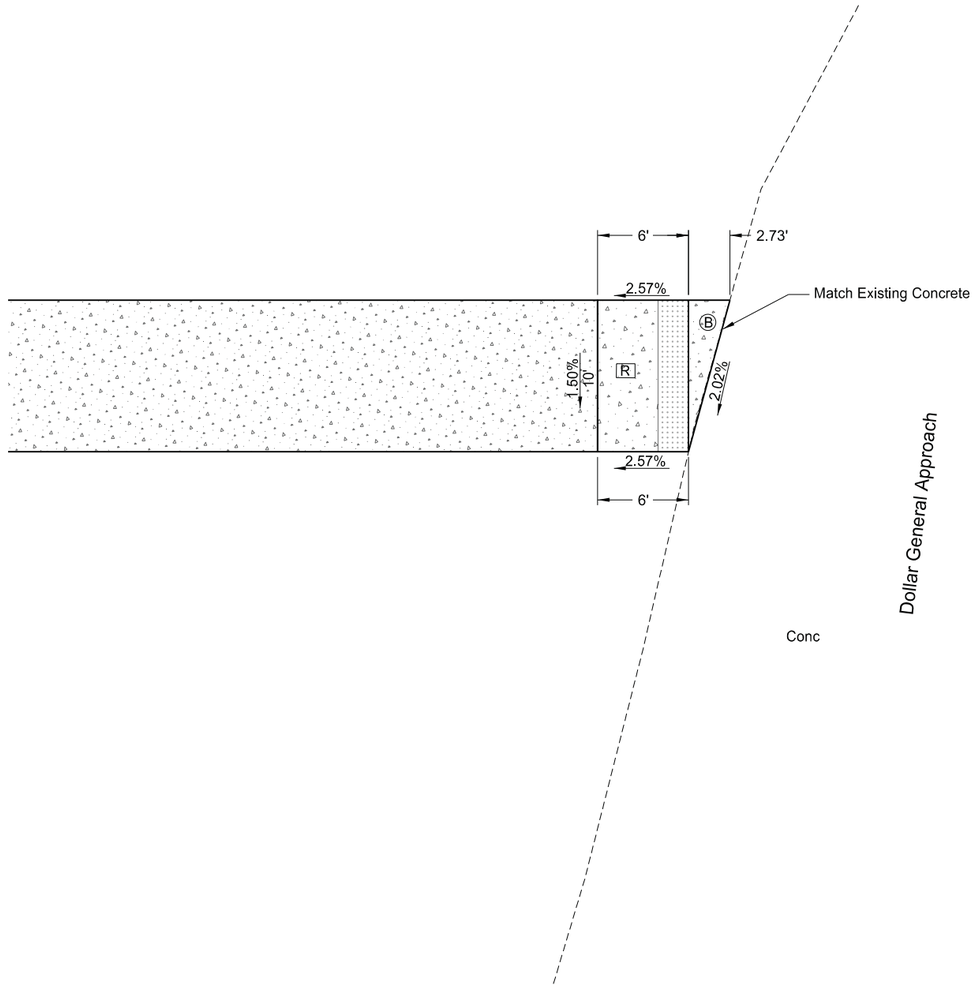
Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	20	12





NOTES:

1. See standard drawings for additional information.
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LEGEND

- (TS) Turning Space
  Use at top of ramp when changing directions
  Preferred Slope = 1.5%
  Maximum Slope = 2% all directions
- [R] 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)
- (B) 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%
- [PTA] 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

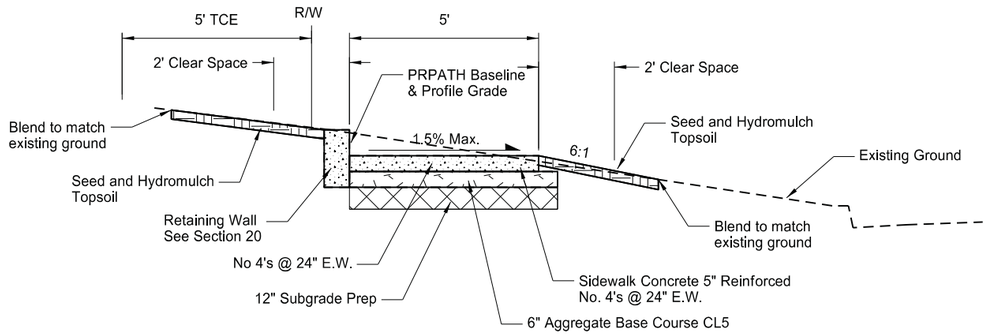
Richland County, North Dakota

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

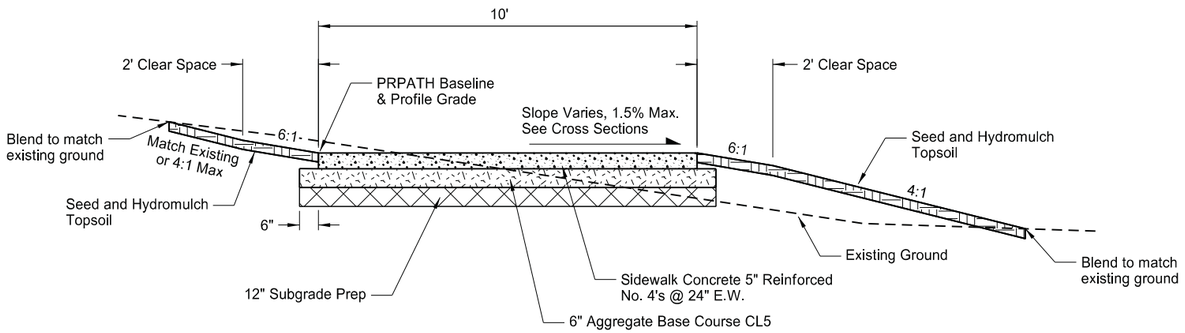
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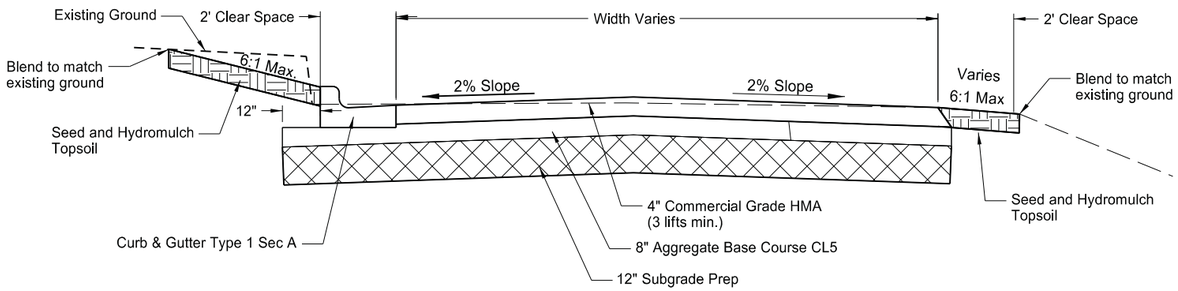
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	30	1



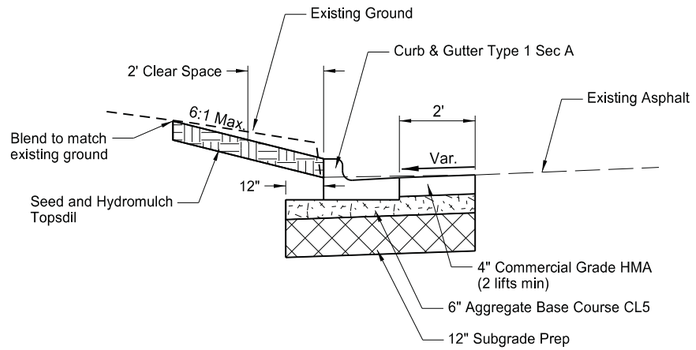
Proposed Sidewalk
Reinforced Concrete Typical Section
Sta 0+00 to Sta 0+36



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

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Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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 & Replace Riprap
- REMOVE — Removal of Bituminous Surfacing
- Removal of Aggregate Surfacing
- REMOVE — Removal of Concrete Pavement

Removals

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

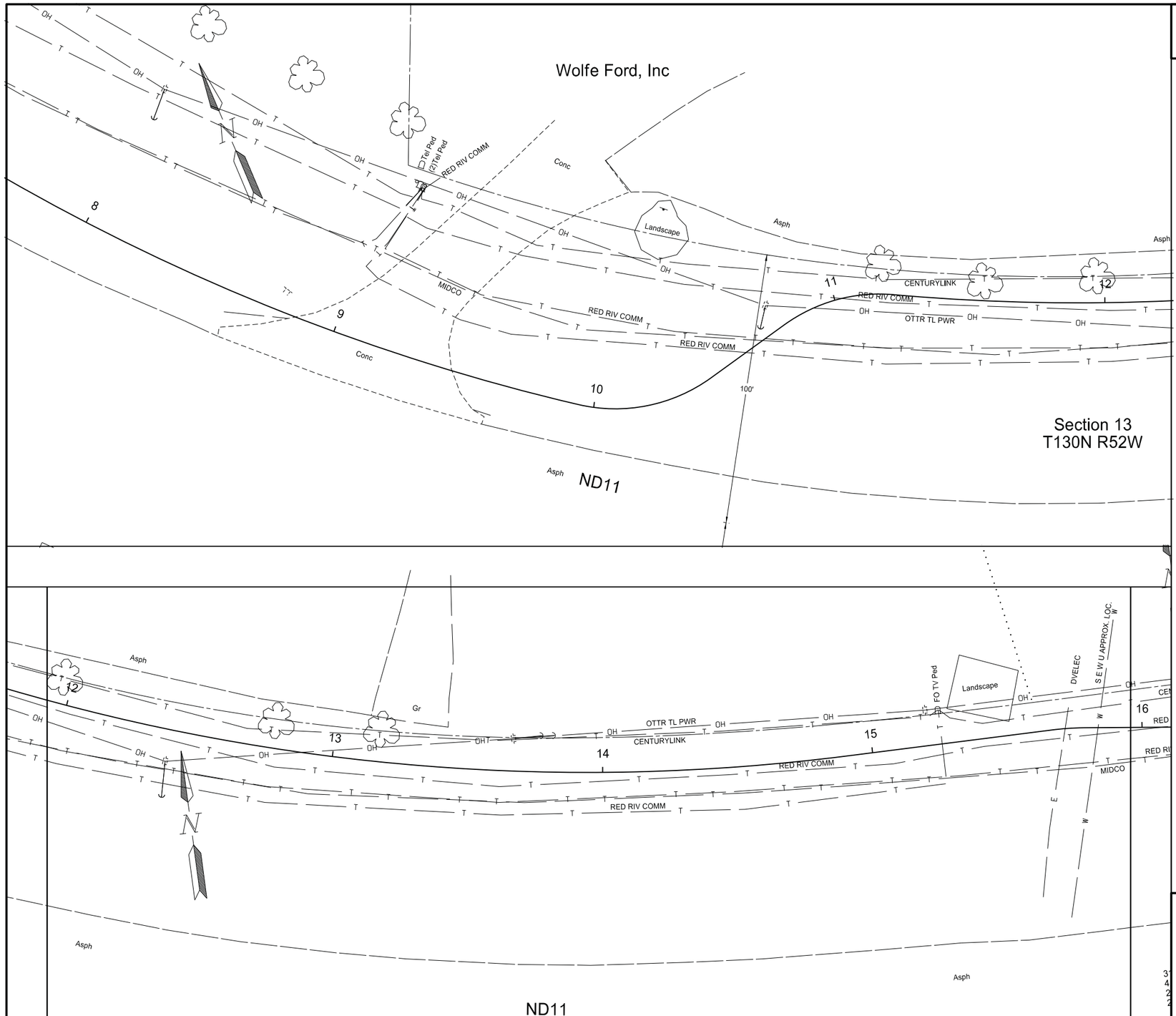
Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

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

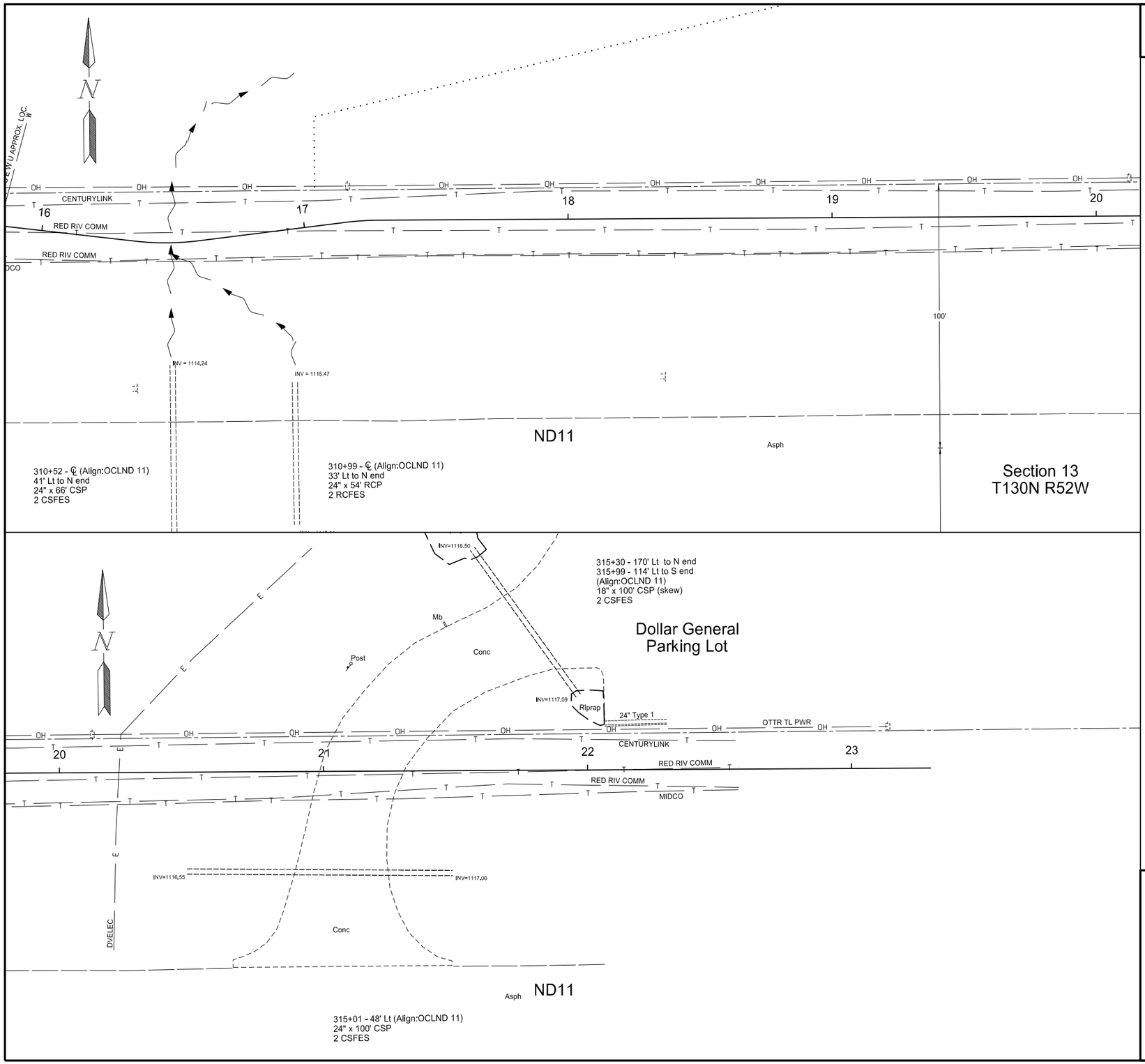
Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

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



Removals

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
ENGINEER
NORTH DAKOTA
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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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) In	Pipe Installation (Pay Item) Bid Item	Pipe Installation (Pay Item) LF	Allowable Material	Required Diameter In	Steel Pipe Coatings Type	Steel Pipe Corrugations or Spiral Ribs	Steel Pipe Minimum Thickness In	Geosythetic Material - Type G (Pay Item) SY	(*) End Sections Begin EA	(*) End Sections End EA	Applicable Backfill
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

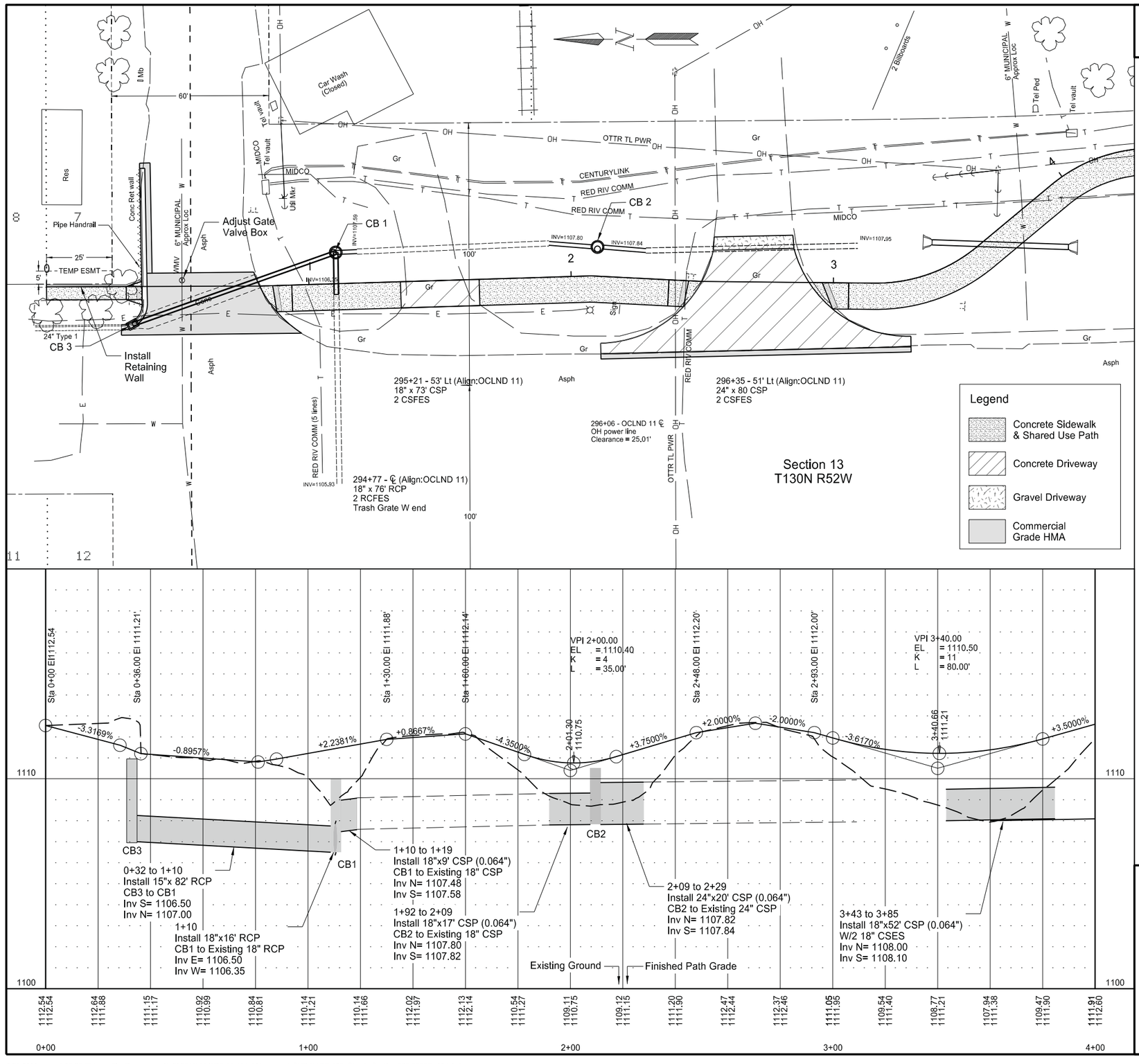
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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	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

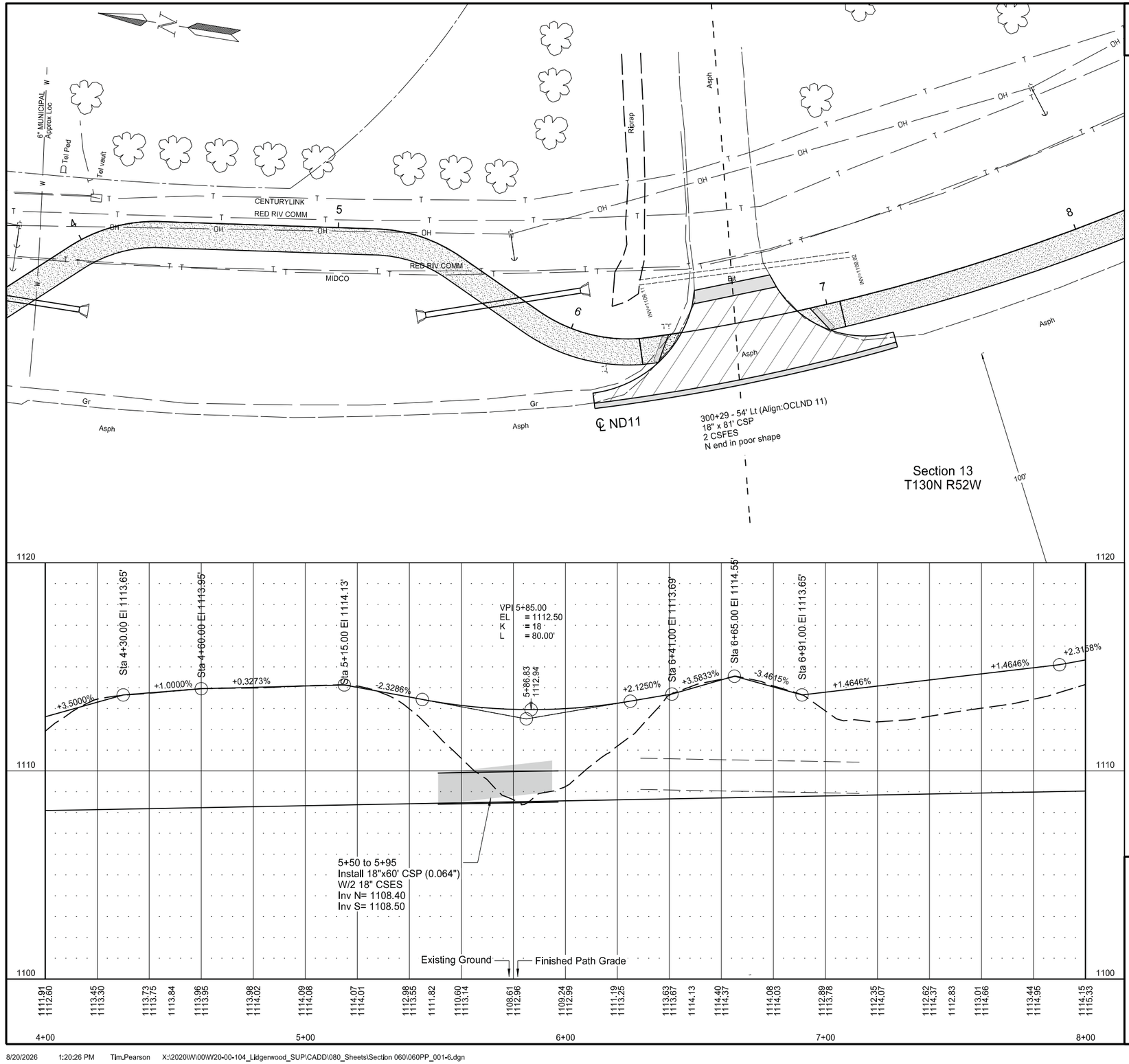
Richland County, North Dakota

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NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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



Legend

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

Plan and Profile

From 3rd St SE to Dollar General Store

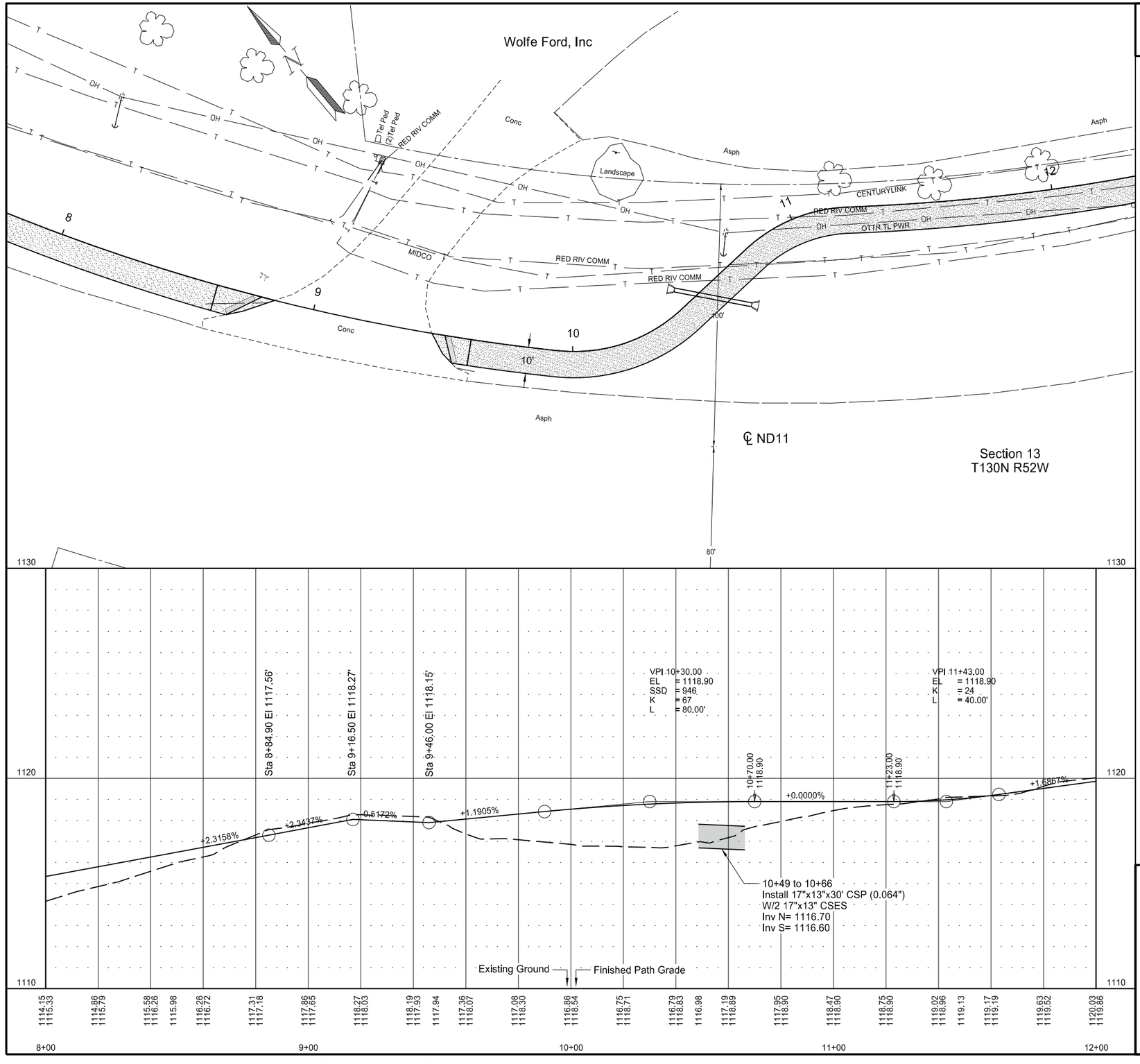
ND11 in Lidgerwood

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	3

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

Legend

Concrete Sidewalk & Shared Use Path

Plan and Profile

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

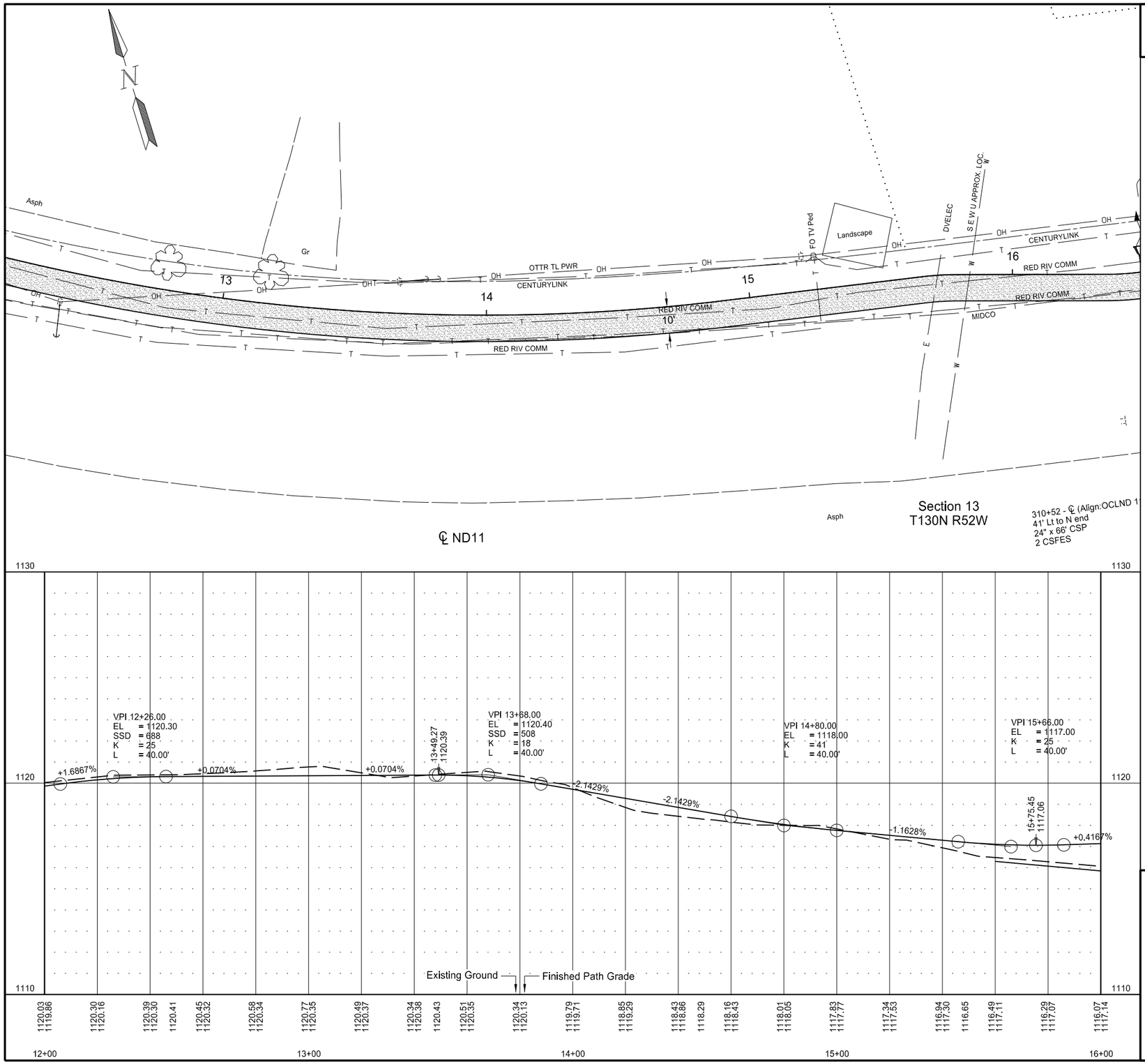
Shared Use Path

Richland County, North Dakota

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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

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



Legend

Concrete Sidewalk & Shared Use Path

Plan and Profile

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

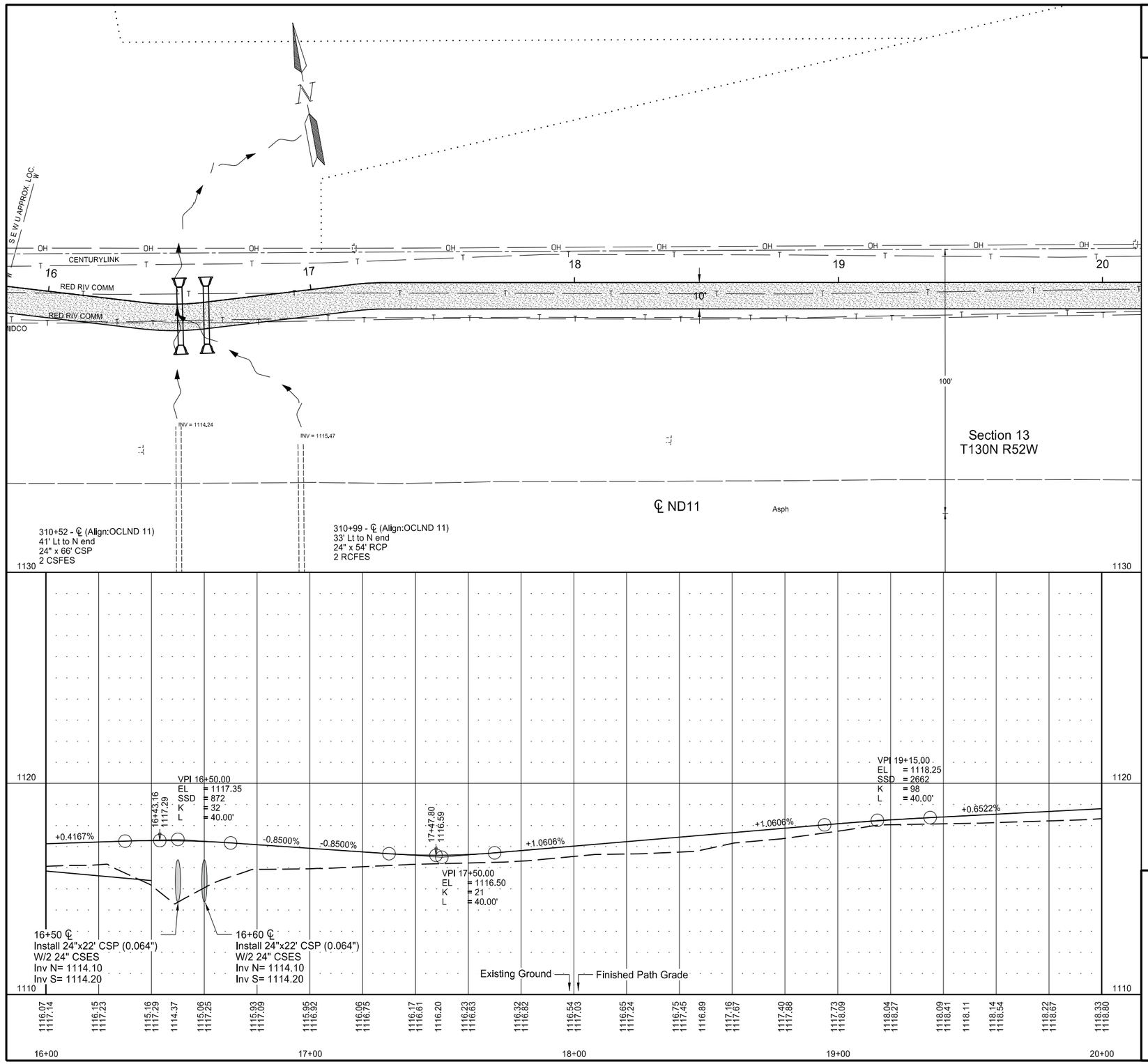
Richland County, North Dakota

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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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	℄		LF	22
16+60	℄		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



Legend

Concrete Sidewalk & Shared Use Path

Plan and Profile

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

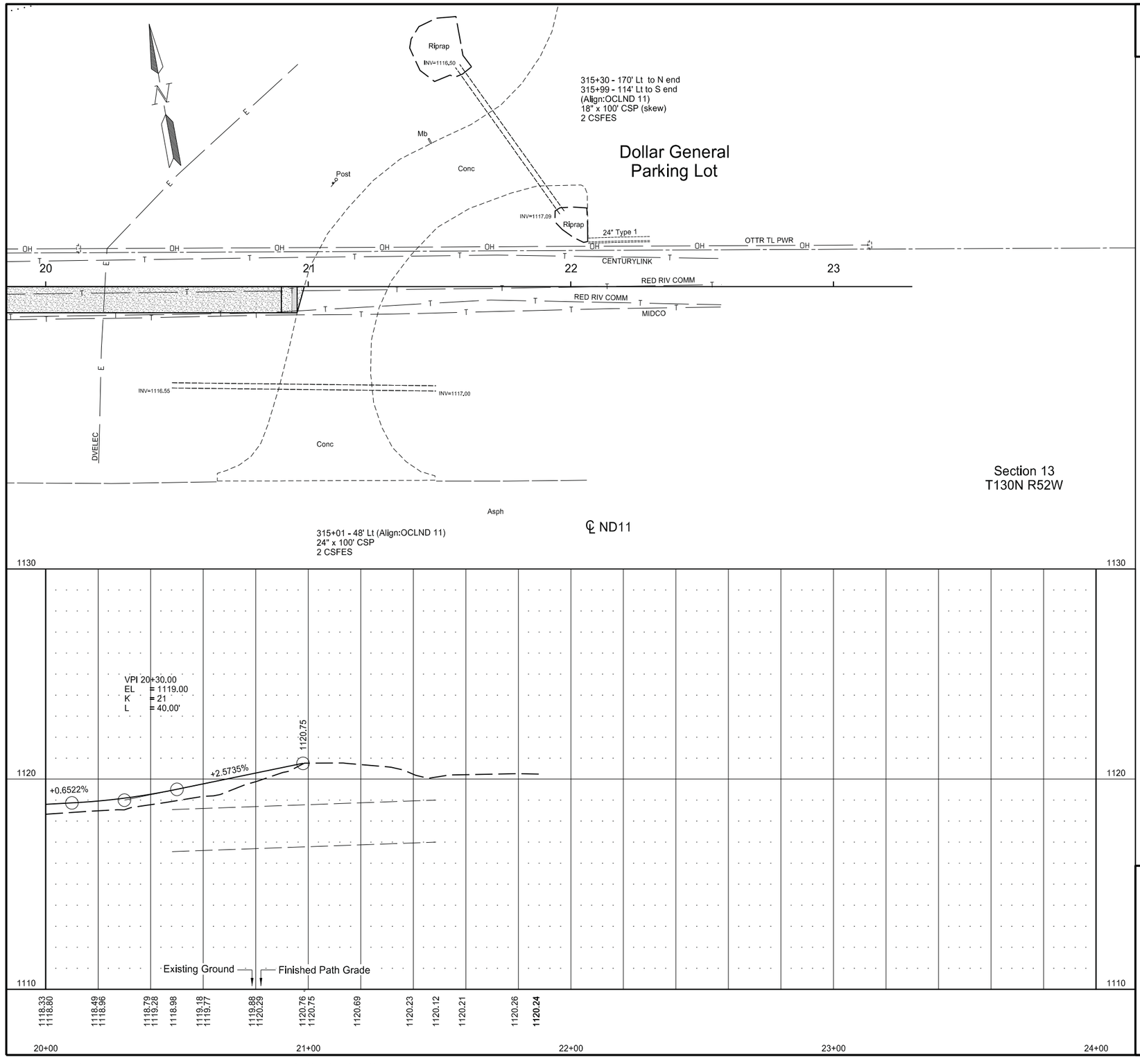
Shared Use Path

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

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

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 #	Constructed Size Acre(s)
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

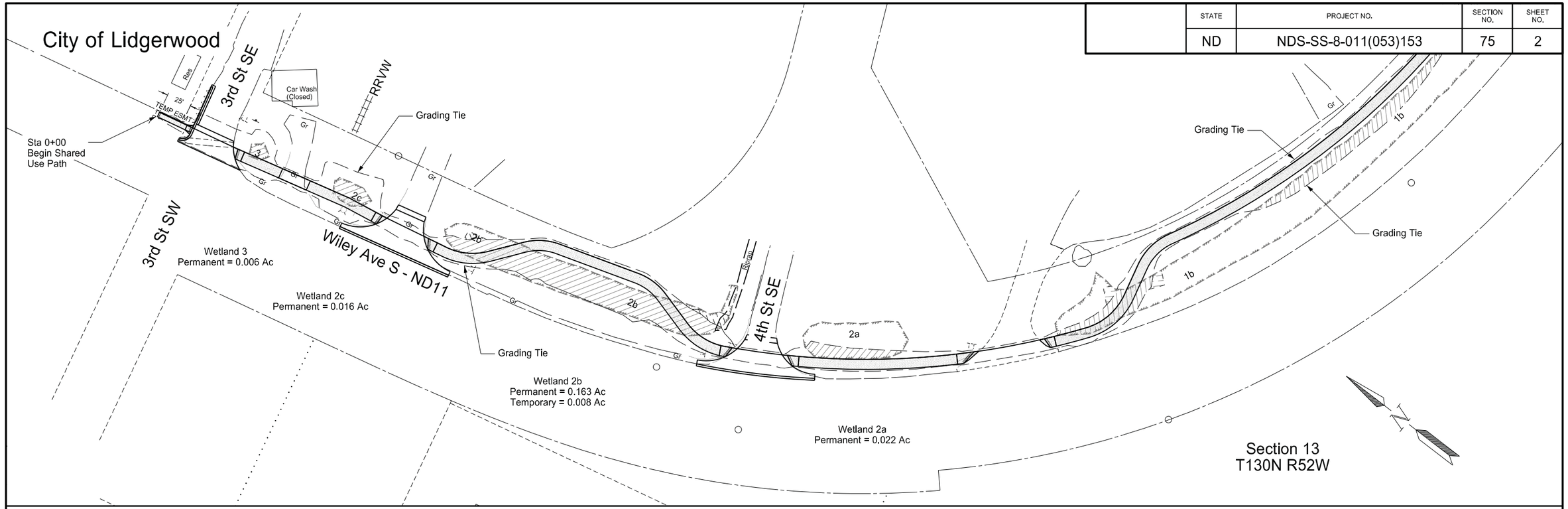
	Location	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
USACE Only	Onsite	0			
EO 11990 Only	Onsite and Vollrath16/17	0	0		
USACE/11990	Onsite	0			
USFWS	Vollrath 15/21 UFWS Easement				0
	Total	**0**	**0**	**0**	**0**

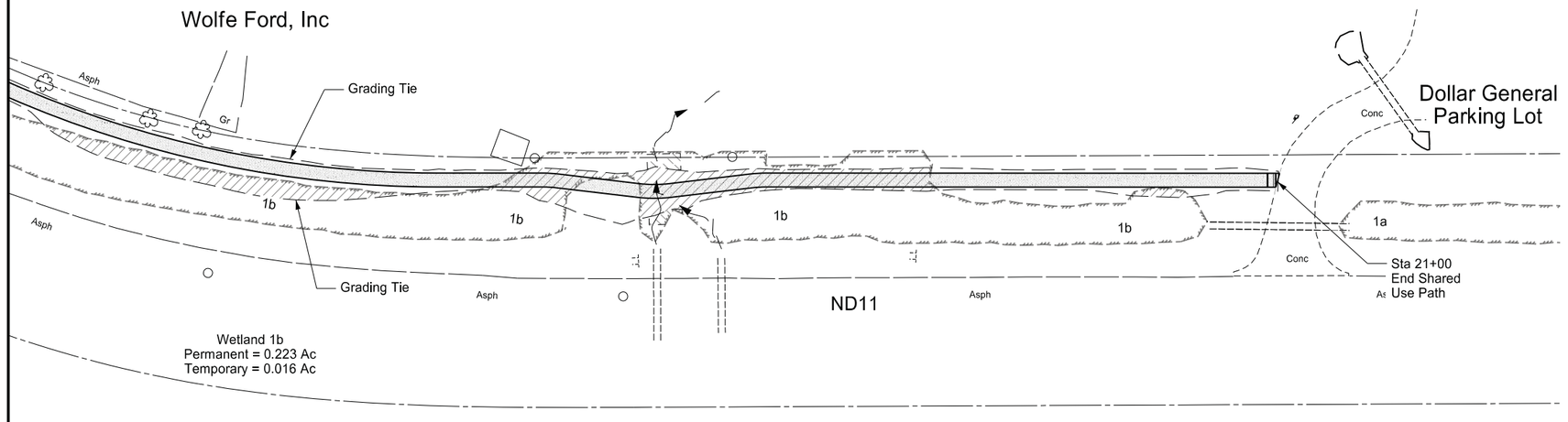
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8/26/2026

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

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	75	2





Legend

- Permanent Wetland Impact
- Temporary Wetland Impact
- Catch Line Fill
- Catch Line Cut
- Concrete Sidewalk & Shared Use Path

Wetland Impact Summary		
Wetland	Permanent	Temporary
	Acres	Acres
1a	0	0
1b	0.223	0.016
2a	0.022	0
2b	0.163	0.008
2c	0.016	0
3	0.006	0
Total	0.429	0.024

Wetland Impacts

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

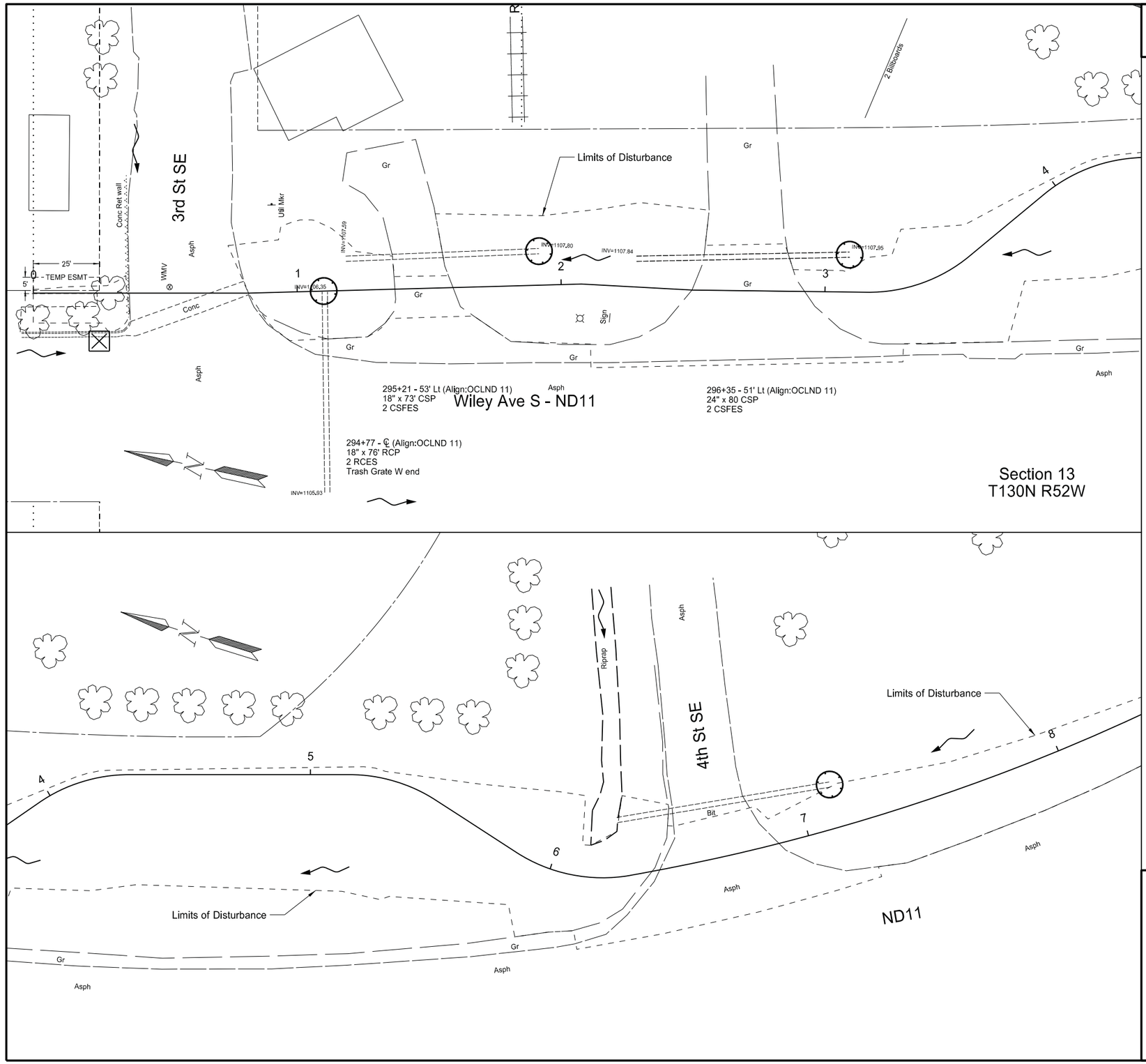
Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

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Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA



	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

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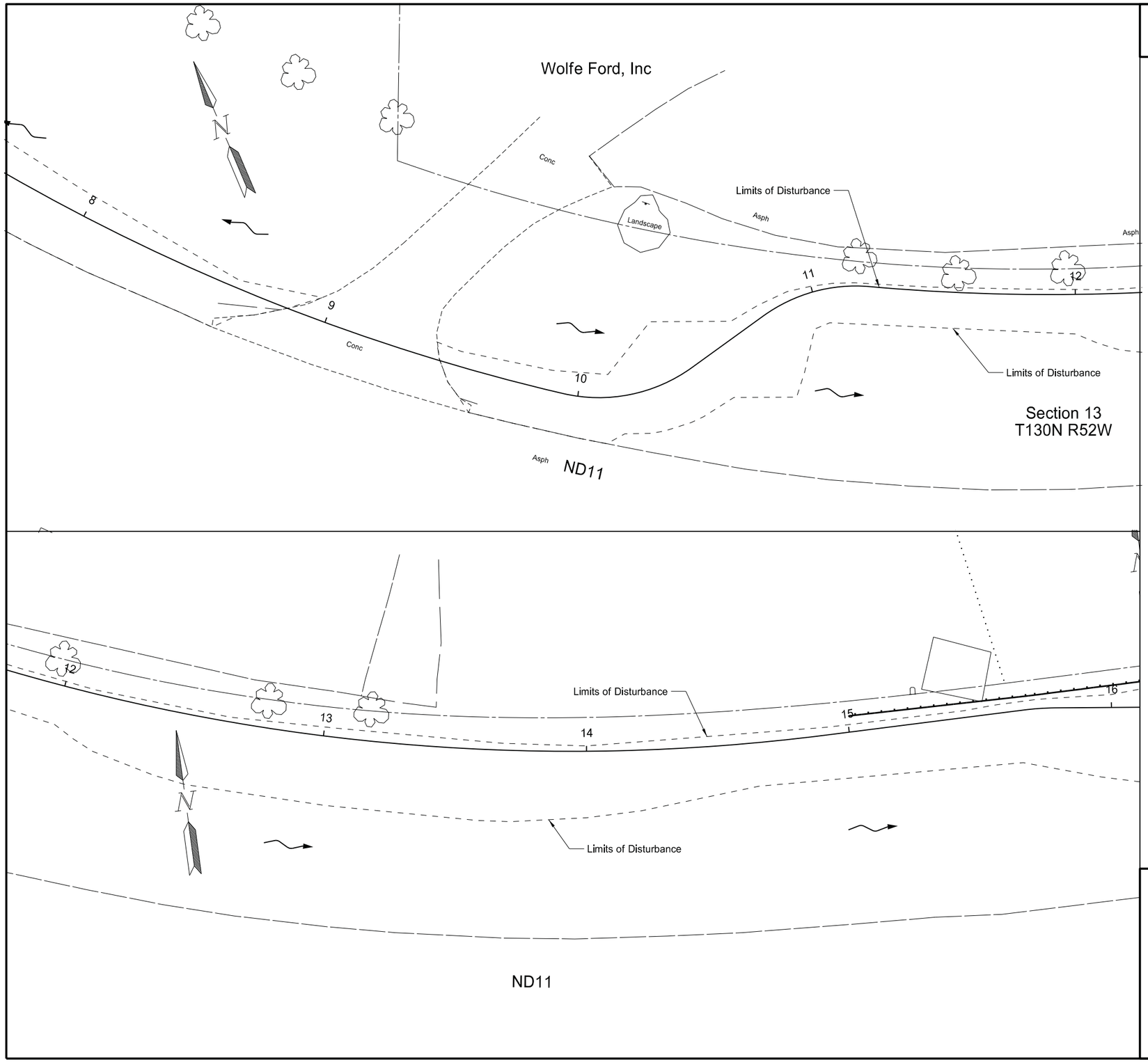
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	76	2

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

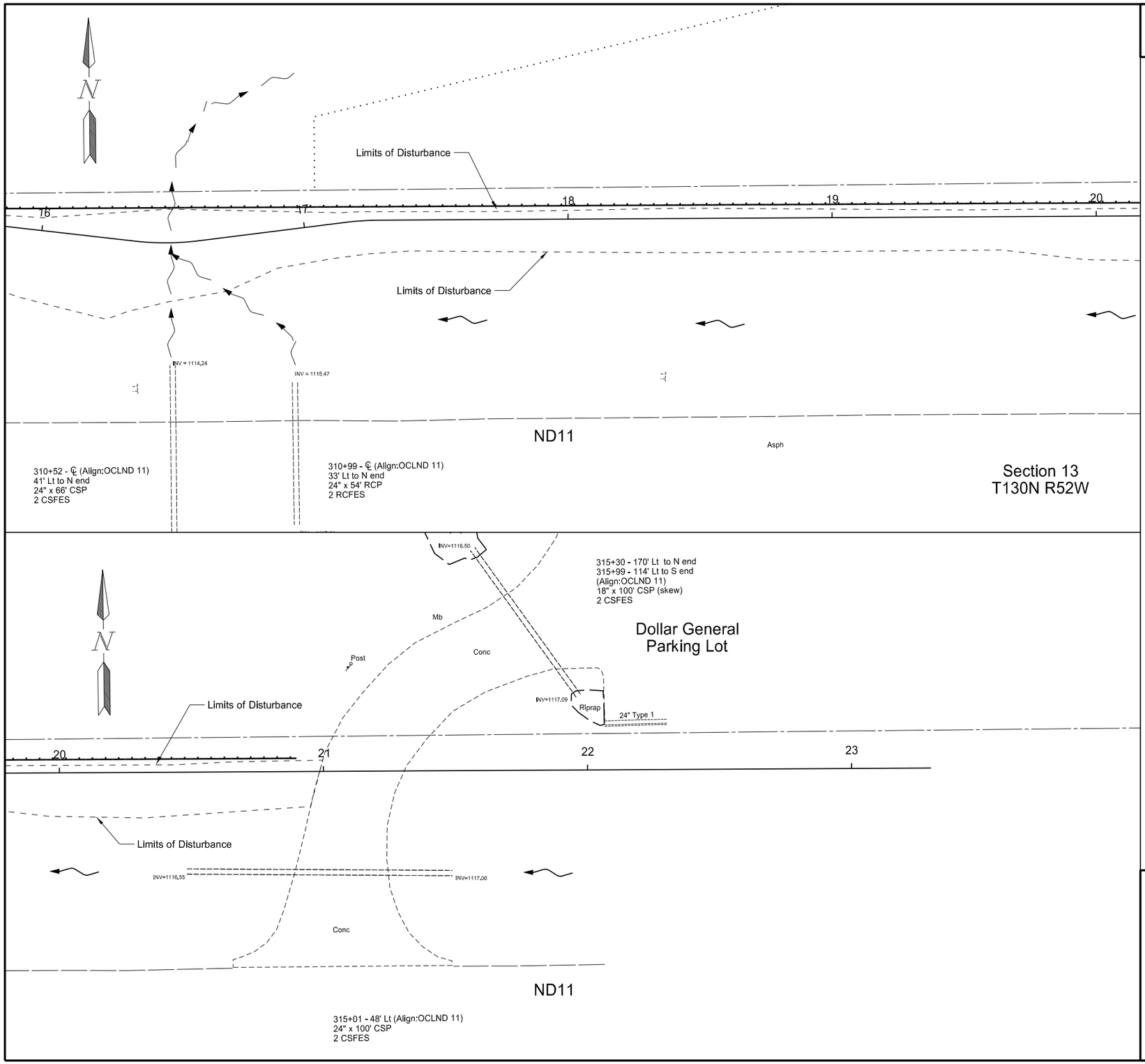
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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	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

Legend

12" Fiber Roll

Temporary Erosion Control

From 3rd St SE to Dollar General Store

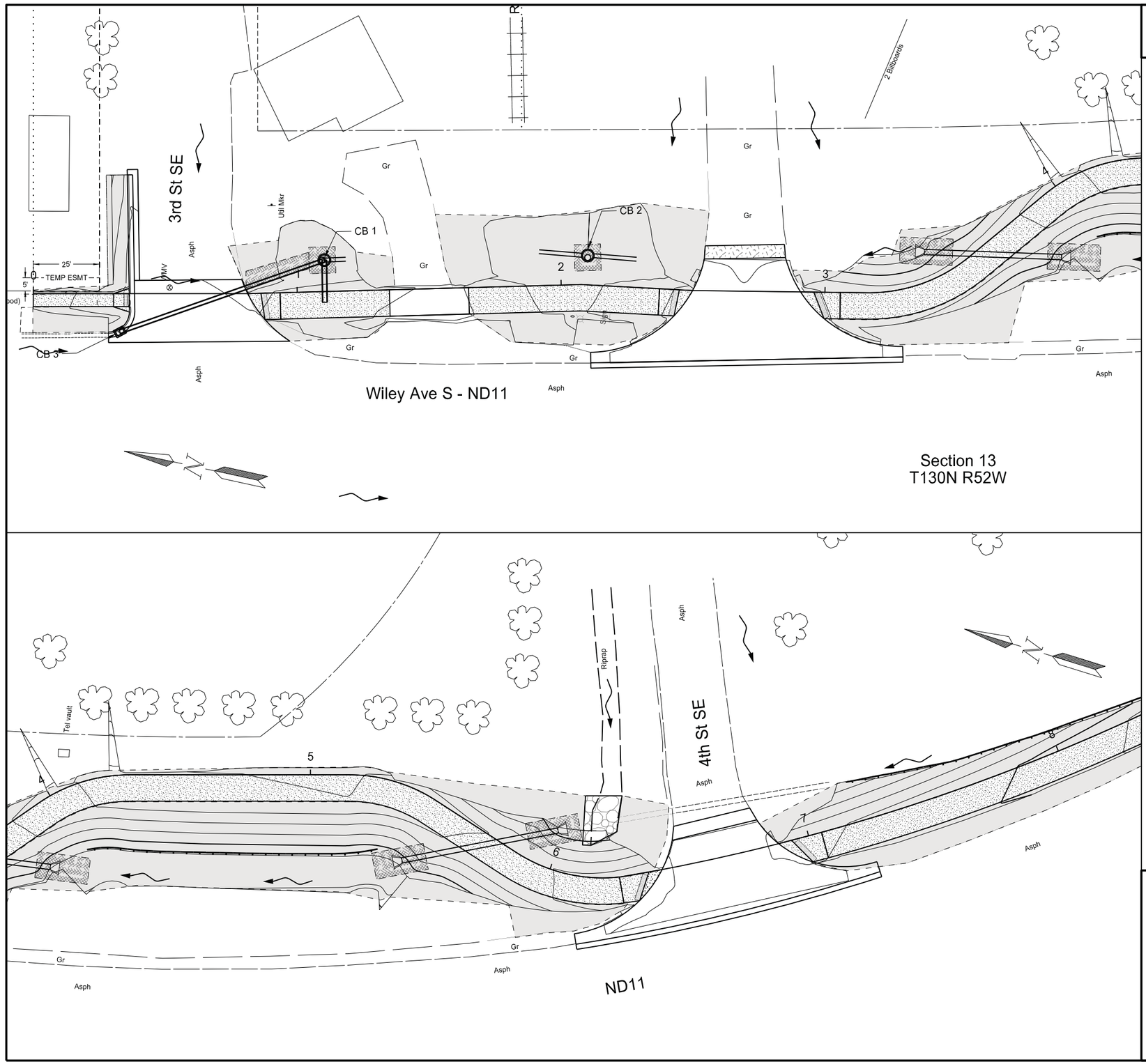
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	77	1

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

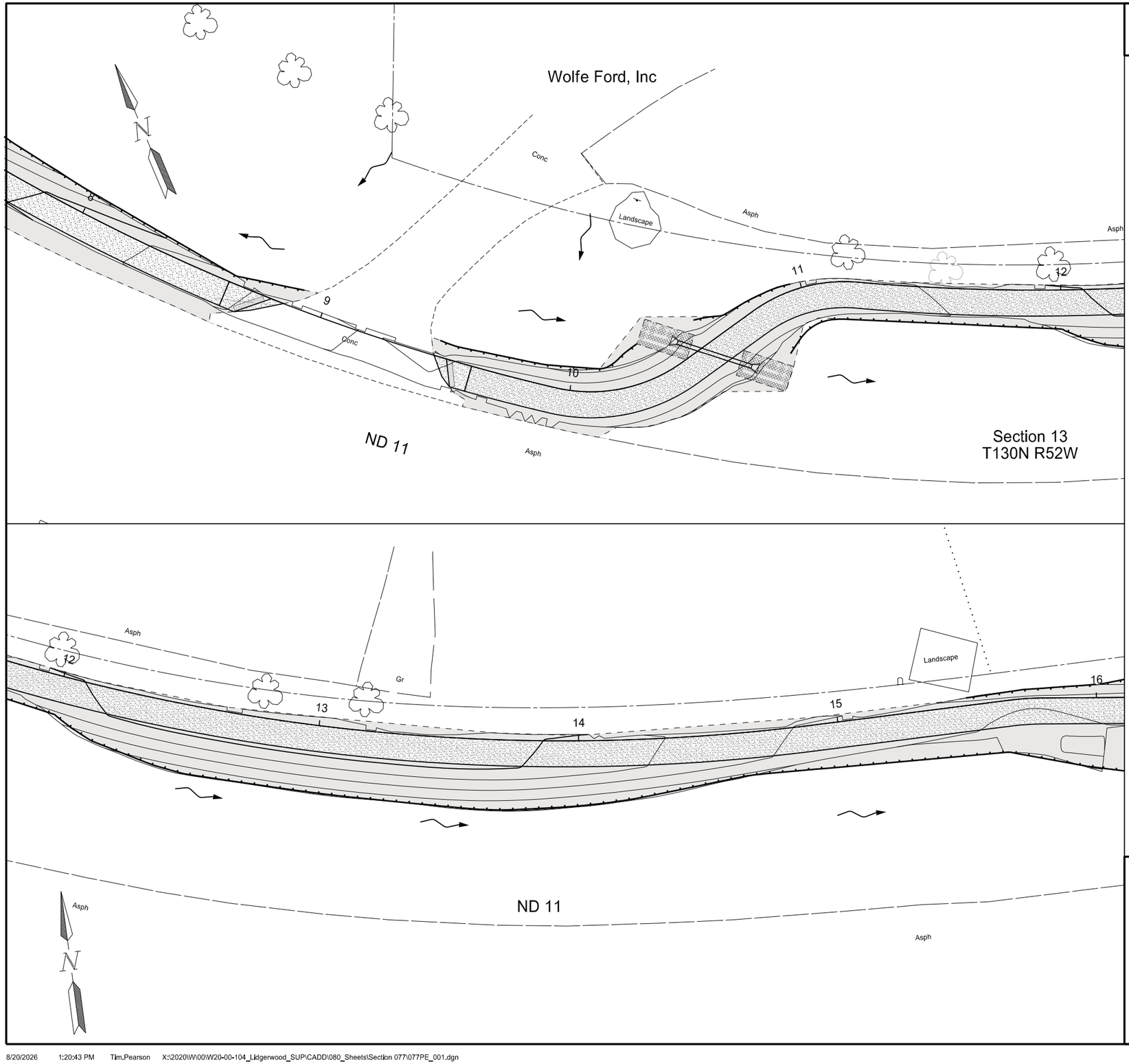
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA



	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

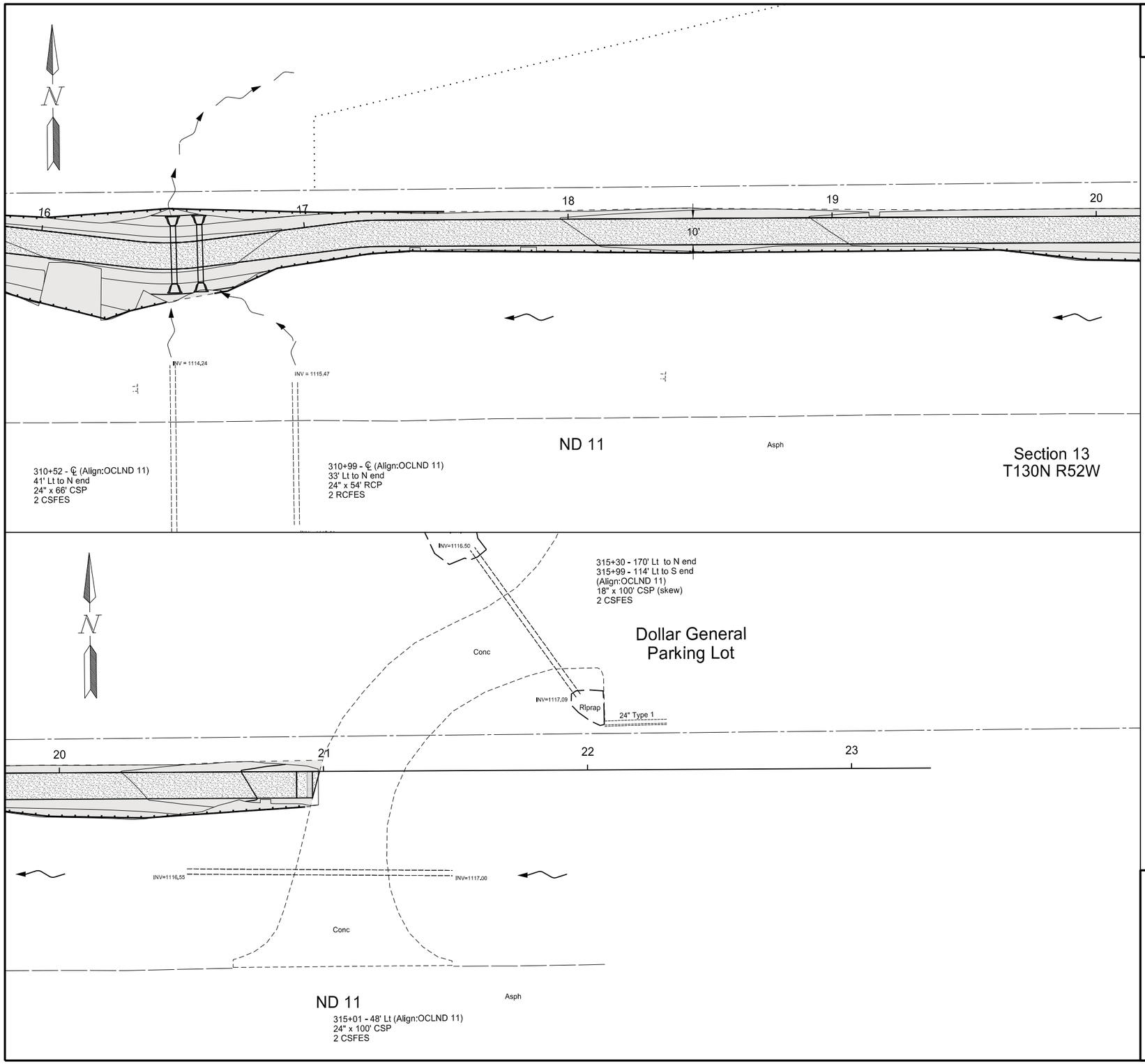
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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NORTH DAKOTA
8/26/2026

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	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 Sidwalk & 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

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PRELIMINARY SURVEY COORDINATE AND CURVE DATA - Lidgerwood from 3rd St SE to the Dollar General

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	81	1

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
Office Location - OCLND11			
Beg	13+54.80	168,073.57	2,818,137.49
PI	292+99.40	166,147.05	2,818,215.45
Station Equation:			
BK	32+82.90	166,147.05	2,818,215.45
AHD	292+99.40	166,147.05	2,818,215.45
TS	296+22.55	165,824.22	2,818,229.84
SC	299+22.55	165,526.34	2,818,261.43
PI OCLND11	303+61.41	165,098.82	2,818,360.55
CS	307+28.23	164,944.78	2,818,771.49
ST	310+28.23	164,874.61	2,819,062.71
POE	379+24.27	163,671.39	2,825,852.96
End	304+31.77	165,015.80	2,818,265.89

CURVE DATA

ARC DEFINITION

P.I. STA	= 304+31.77
Delta	= 77° 23' 53" (LT)
Degree	= 7° 00' 00"
Radius	= 818.51'
Ls	= 300.00'
Sc	= 10° 30' 00"
Ts	= 809.23'
L	= 805.69'

US PUBLIC LAND SURVEY DATA

CORNER	IRN	NORTHING	EASTING

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	ALIGNMENT	MONUMENT
Primary Control							
GPS 10	164,760.55	2,819,513.90	1,122.32	314+92.40	34' Rt	OCLND11	#5 Rabar w/cap stampte "GPS 10"
GPS 11	163,135.34	2,816,015.05	1,145.66	N/A	N/A	OCLND11	#5 Rebar
GPS 12	167,441.44	2,822,033.42	1,117.49	N/A	N/A	OCLND11	#5 Rebar
GPS 13	168,094.96	2,813,637.60	1,097.79	N/A	N/A	OCLND11	#5 Rebar
Secondary Control							
RTK 51	165,954.24	2,818,253.64	1,111.76	294+93.72	-30' Lt	OCLND11	#5 Rebar
RTK 57	165,248.11	2,818,299.35	1,119.03	301+84.28	71' Rt	OCLND11	#5 Rebar
RTK 58	165,015.26	2,818,830.80	1,120.41	307+62.43	-86' Lt	OCLND11	#5 Rebar
RTK 60	165,984.86	2,818,254.90	1,110.88	294+63.18	-32' Lt	OCLND11	#5 Rebar

REFERENCE MARKERS

R Mkr #	NORTHING	EASTING	STATION	O/S	ALIGNMENT
153	167,502.84	2,818,126.58	19+25	34' Rt	OCLND11

Marker is light pole mounted

All coordinates and measurements on this document derived from the International Foot definition.

INITIALIZING BENCH MARK
OPUS

- [x] NAVD-88
- [ ] _____
- [x] GEOID12B
- [ ] GEOID18
- [ ] _____

Date Survey Completed 9/05/23

- [ ] Assumed Coordinates
- [x] All coordinates on this sheet are Richland County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota South Zone Combination Factor (cf) = 0.9999345

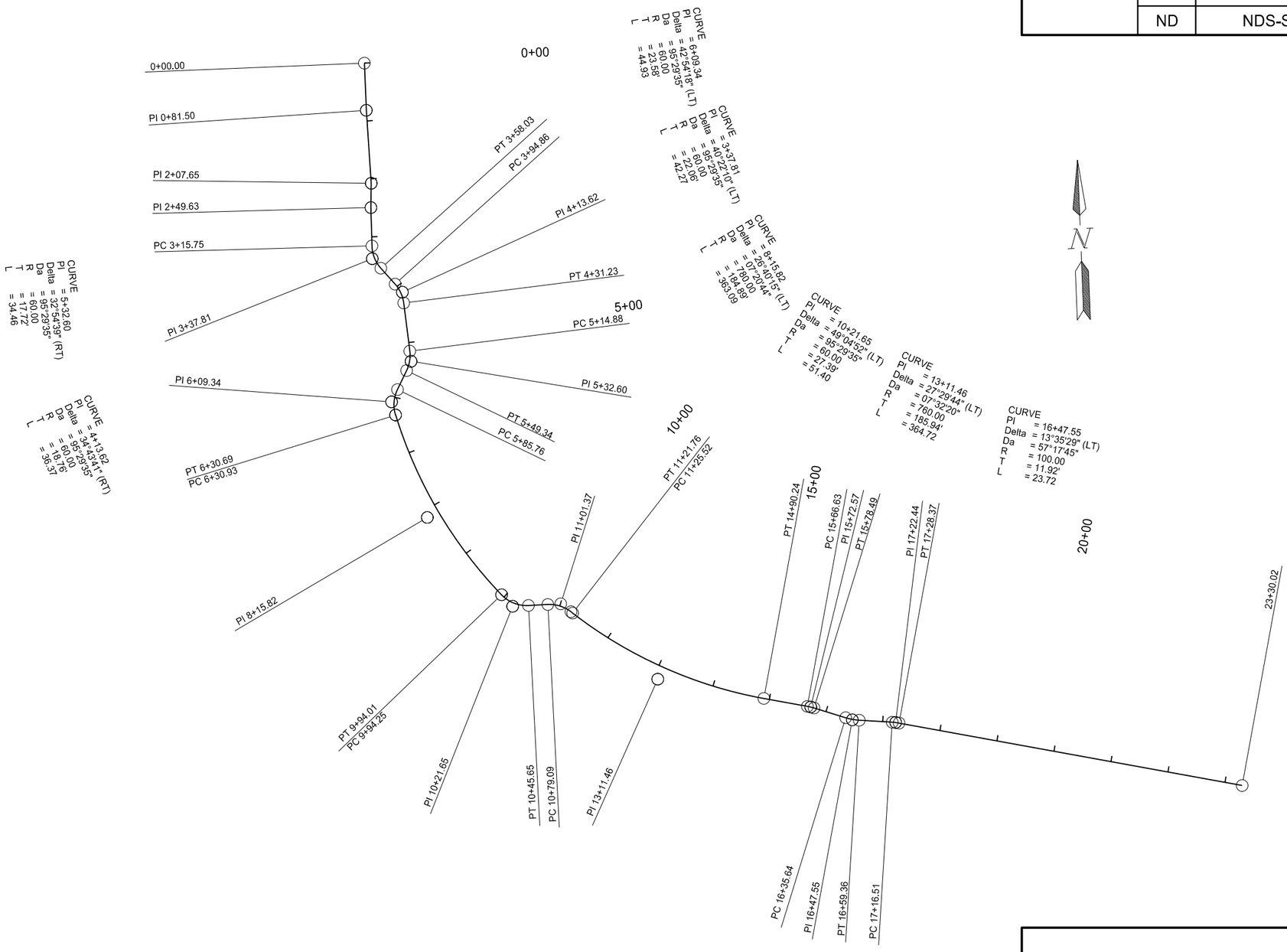
REGISTERED LAND SURVEYOR
RODNEY M. CEROLL
LS-5772
DATE
8/26/2026
NORTH DAKOTA

Rodney M. Ceroll

NOTES: Sheet 1 of 1

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	82	2

Alignment Name: Align1
Alignment Description: Shared Use Path

		Station	Northing	Easting
START	(START)	0	166082.161	2818257.102
PC	(PC)	315.754	165766.79	2818270.158
COMBINATION PI	(COMBINATION PI)	337.811	165744.74	2818270.755
CC	(CC)		165768.416	2818330.135
PT	(PT)	358.029	165728.328	2818285.493

Radius: 60
Delta: 40.37 Left
Length: 42.275

Degree of Curvature (Arc): 95.493
Tangent: 22.058
Chord: 41.406
Middle Ordinate: 3.685
External: 3.926

Element: Circular

PC	(PC)	394.858	165700.926	2818310.099
COMBINATION PI	(COMBINATION PI)	413.619	165686.966	2818322.635
CC	(CC)		165660.838	2818265.457
PT	(PT)	431.225	165668.352	2818324.984

Radius: 60
Delta: 34.728 Right
Length: 36.367

Degree of Curvature (Arc): 95.493
Tangent: 18.762
Chord: 35.813
Middle Ordinate: 2.734
External: 2.865

Element: Circular

PC	(PC)	514.881	165585.355	2818335.461
COMBINATION PI	(COMBINATION PI)	532.603	165567.773	2818337.681
CC	(CC)		165577.841	2818275.934
PT	(PT)	549.345	165551.806	2818329.991

Radius: 60
Delta: 32.911 Right
Length: 34.464

Degree of Curvature (Arc): 95.493
Tangent: 17.722
Chord: 33.992
Middle Ordinate: 2.458
External: 2.563

Element: Circular

PC	(PC)	585.76	165518.998	2818314.19
COMBINATION PI	(COMBINATION PI)	609.337	165497.756	2818303.96
CC	(CC)		165492.963	2818368.247
PT	(PT)	630.69	165475.232	2818310.927

Radius: 60
Delta: 42.905 Left
Length: 44.93

Degree of Curvature (Arc): 95.493
Tangent: 23.577
Chord: 43.888
Middle Ordinate: 4.157
External: 4.466

Element: Circular

PC	(PC)	630.928	165475.004	2818310.998
COMBINATION PI	(COMBINATION PI)	815.822	165298.369	2818365.638
CC	(CC)		165705.512	2819056.16
PT	(PT)	994.014	165165.053	2818493.75

Radius: 780
Delta: 26.671 Left
Length: 363.086

Degree of Curvature (Arc): 7.346
Tangent: 184.894
Chord: 359.817
Middle Ordinate: 21.032
External: 21.614

Element: Circular

PC	(PC)	994.252	165164.882	2818493.915
COMBINATION PI	(COMBINATION PI)	1021.647	165145.129	2818512.897
CC	(CC)		165206.455	2818537.177
PT	(PT)	1045.65	165146.534	2818540.256

Radius: 60
Delta: 49.081 Left
Length: 51.398

Degree of Curvature (Arc): 95.493
Tangent: 27.395
Chord: 49.84
Middle Ordinate: 5.42
External: 5.958

Element: Circular

PC	(PC)	1079.087	165148.25	2818573.649
COMBINATION PI	(COMBINATION PI)	1101.37	165149.393	2818595.903
CC	(CC)		165088.329	2818576.727
PT	(PT)	1121.759	165135.733	2818613.509

Radius: 60
Delta: 40.749 Right
Length: 42.672

Degree of Curvature (Arc): 95.493
Tangent: 22.283
Chord: 41.779
Middle Ordinate: 3.754
External: 4.004

Element: Circular

PC	(PC)	1125.524	165133.425	2818616.483
COMBINATION PI	(COMBINATION PI)	1311.464	165019.44	2818763.388
CC	(CC)		165733.877	2819082.377
PT	(PT)	1490.24	164986.154	2818946.325

Radius: 760
Delta: 27.496 Left
Length: 364.716

Degree of Curvature (Arc): 7.539
Tangent: 185.94
Chord: 361.226
Middle Ordinate: 21.773
External: 22.415

Element: Circular

PC	(PC)	1566.631	164972.479	2819021.482
COMBINATION PI	(COMBINATION PI)	1572.568	164971.416	2819027.323
CC	(CC)		164874.094	2819003.58
PT	(PT)	1578.492	164969.669	2819032.998

Radius: 100
Delta: 6.796 Right
Length: 11.861

Degree of Curvature (Arc): 57.296
Tangent: 5.937
Chord: 11.854
Middle Ordinate: 0.176
External: 0.176

Element: Circular

PC	(PC)	1635.638	164952.858	2819087.615
COMBINATION PI	(COMBINATION PI)	1647.554	164949.353	2819099.005
CC	(CC)		165048.433	2819117.033
PT	(PT)	1659.359	164948.622	2819110.899

Radius: 100
Delta: 13.591 Left
Length: 23.722

Degree of Curvature (Arc): 57.296
Tangent: 11.917
Chord: 23.666
Middle Ordinate: 0.703
External: 0.708

Element: Circular

PC	(PC)	1716.505	164945.116	2819167.937
COMBINATION PI	(COMBINATION PI)	1722.442	164944.752	2819173.863
CC	(CC)		164845.305	2819161.803
PT	(PT)	1728.366	164943.689	2819179.705

Radius: 100
Delta: 6.796 Right
Length: 11.861

Degree of Curvature (Arc): 57.296
Tangent: 5.937
Chord: 11.854
Middle Ordinate: 0.176
External: 0.176

END	(END)	2330.021	164835.983	2819771.641

Survey Data Layouts

From 3rd St SE to Dollar General Store

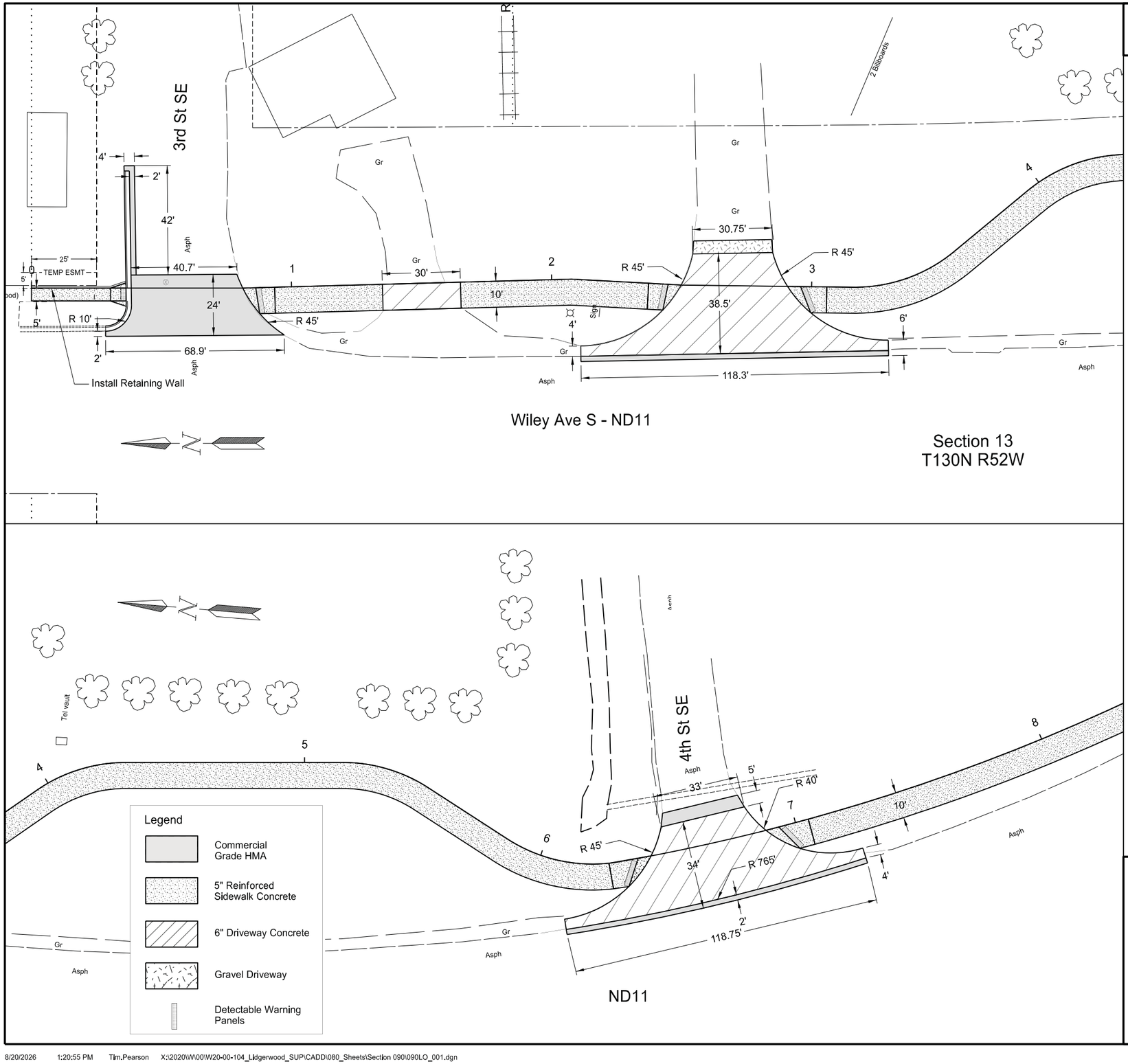
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA



	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

Paving Layout

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

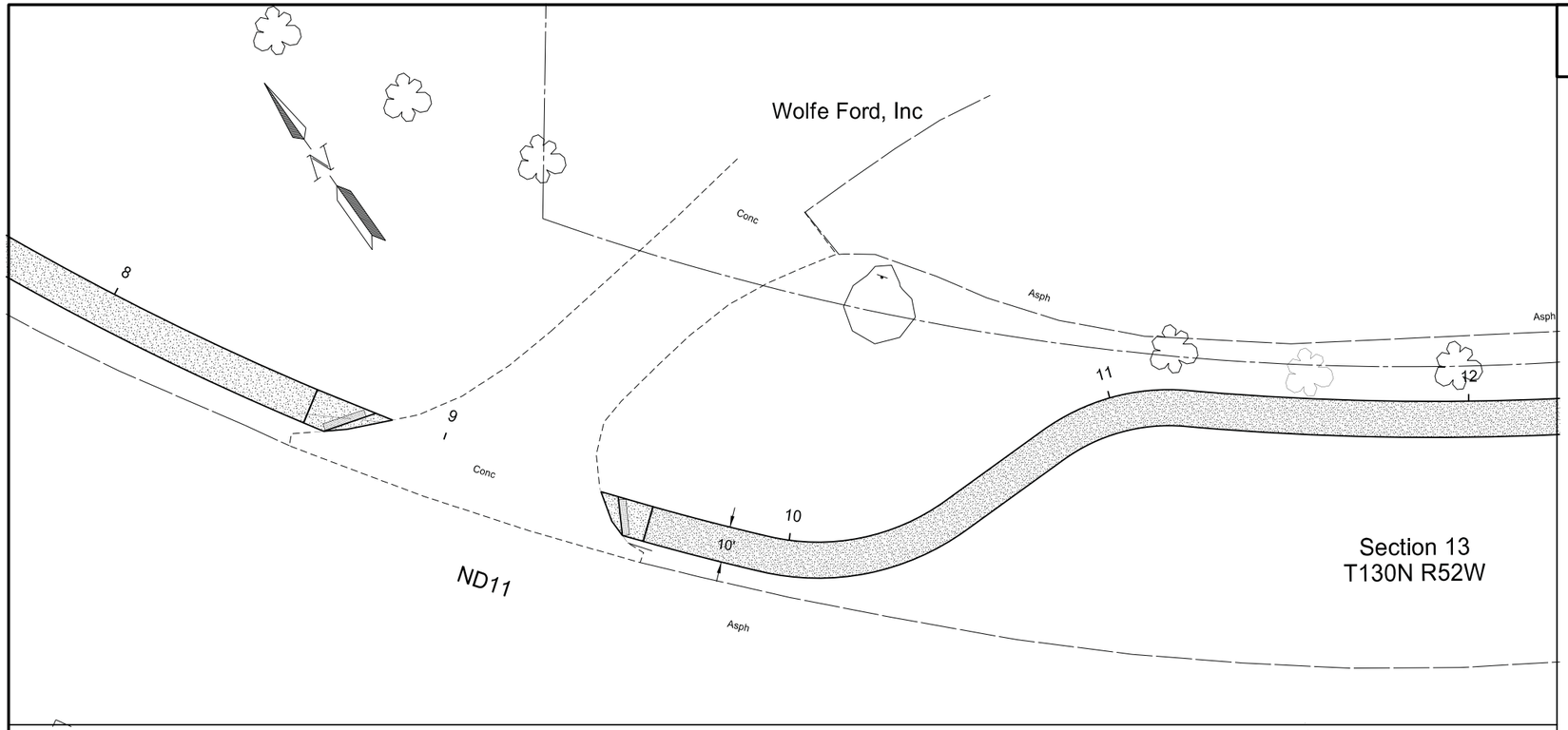
Richland County, North Dakota

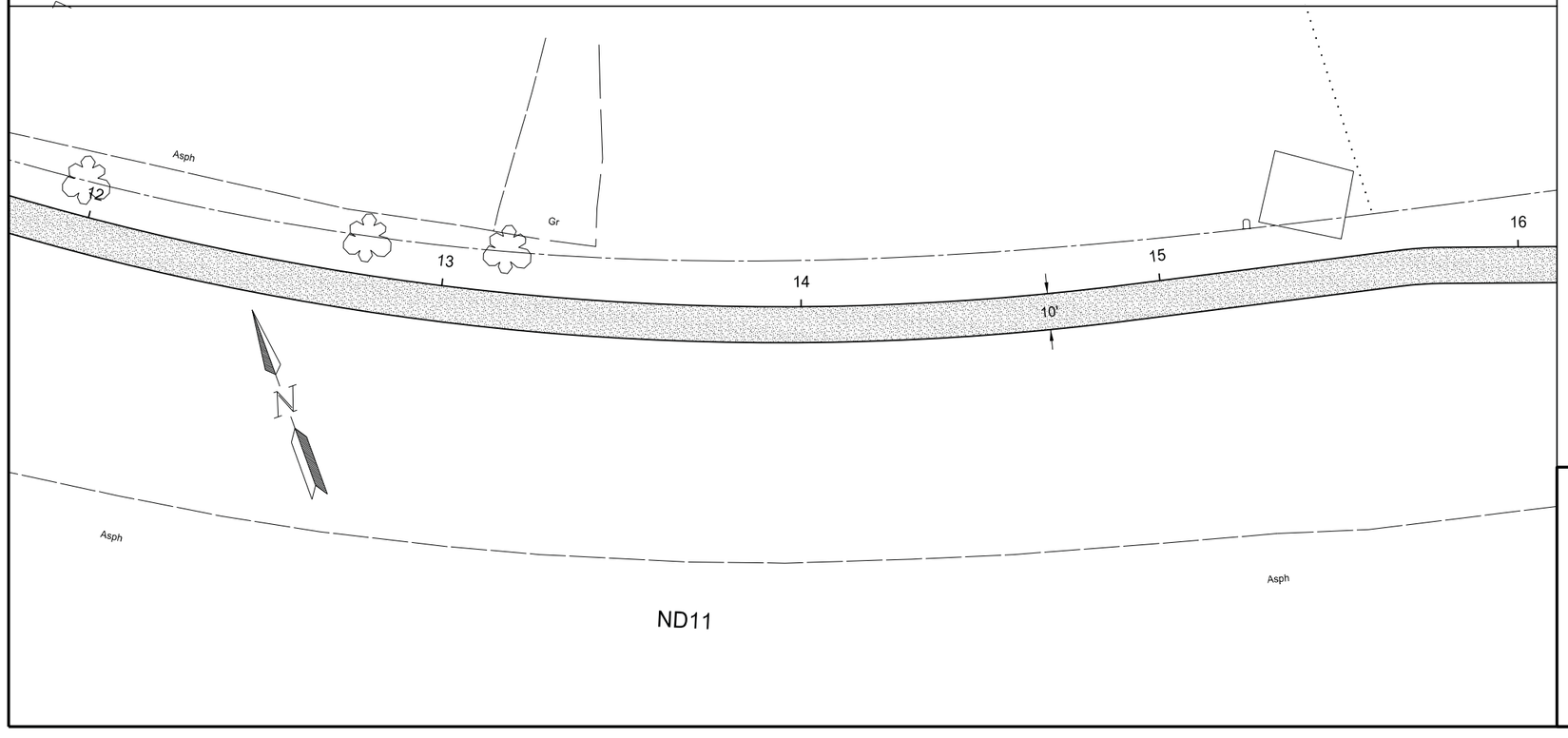
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ENGINEER
NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

	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





Legend

- 5" Reinforced Sidewalk Concrete
- Detectable Warning Panels

Paving Layout

From 3rd St SE to Dollar General Store

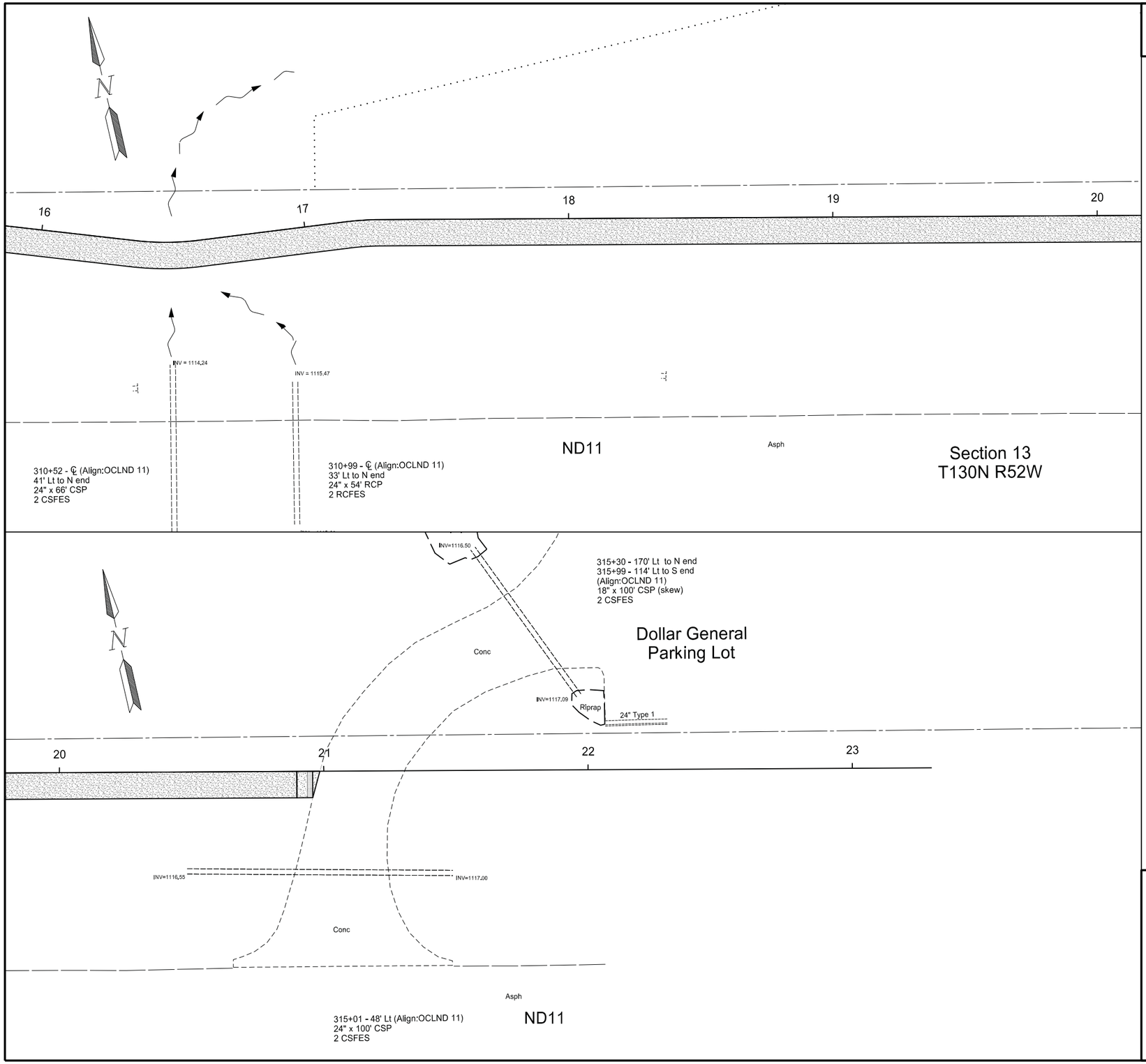
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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NORTH DAKOTA
8/26/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA



	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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NORTH DAKOTA
8/20/2026

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE		35	
G20-1-60	**60"x24"**	**ROAD WORK NEXT __ MILES**	**2**	**28**	**56**
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)		18	
G20-2-48	**48"x24"**	**END ROAD WORK**	**2**	**26**	**52**
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)		18	
G20-4b-36	36"x30"	WAIT FOR PILOT CAR		18	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS		43	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW		36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $150 WHEN WORKERS PRESENT		59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)		11	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)		10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)		10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)		7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)		7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)		7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)		7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)		7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT		15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)		7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP		32	
R1-2-60	60"x60"	YIELD		29	
R2-1-36	**36"x48"**	**SPEED LIMIT __ (Portable only)**	**1**	**30**	**30**
R2-1-48	48"x60"	SPEED LIMIT __		39	
R2-1aP-24	24"x18"	MINIMUM FEE $150 (Mounted on Speed Limit post)		10	
R3-2-48	48"x48"	NO LEFT TURN		35	
R4-1-48	48"x60"	DO NOT PASS		39	
R4-7-48	48"x60"	KEEP RIGHT		39	
R5-1-48	48"x48"	DO NOT ENTER		35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)		14	
R7-1-12	12"x18"	NO PARKING ANY TIME		11	
R9-9-24	**24"x12"**	**SIDEWALK CLOSED (Mounted on barricade)**	**1**	**3**	**3**
R10-6-24	24"x36"	STOP HERE ON RED		16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)		12	
R11-2a-48	**48"x30"**	**STREET CLOSED (Mounted on barricade)**	**5**	**12**	**60**
R11-3a-60	60"x30"	ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-4a-60	**60"x30"**	**STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)**	**1**	**15**	**15**
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT		35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		26	
W3-1-48	48"x48"	STOP AHEAD		35	
W3-3-48	48"x48"	SIGNAL AHEAD		35	
W3-4-48	**48"x48"**	**BE PREPARED TO STOP**	**2**	**35**	**70**
W3-5-48	48"x48"	SPEED REDUCTION AHEAD		35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT		35	
W5-1-48	48"x48"	ROAD NARROWS		35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE		35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
W6-3-48	48"x48"	TWO WAY TRAFFIC		35	
W8-1-48	**48"x48"**	**BUMP**	**4**	**35**	**140**
W8-3-48	48"x48"	PAVEMENT ENDS		35	
W8-7-48	48"x48"	LOOSE GRAVEL		35	
W8-11-48	48"x48"	UNEVEN LANES		35	
W8-12-48	48"x48"	NO CENTER LINE		35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL		35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY		35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT or _ MILE		35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT or _ MILE		35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY		35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL		35	
W13-1P-30	30"x30"	__ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		14	
W14-3-64	64"x48"	NO PASSING ZONE		28	
W16-2P-30	30"x24"	__ FEET PLAQUE (Mounted on warning sign post)		10	
W20-1-48	**48"x48"**	**ROAD WORK AHEAD or _FT or _ MILE**	**1**	**35**	**35**
W20-2-48	48"x48"	DETOUR AHEAD or __ FT or _ MILE		35	
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or __ FT or _ MILE		35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or __ FT or _ MILE		35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or __ FT or _ MILE		35	
W20-7-48	**48"x48"**	**FLAGGER**	**2**	**35**	**70**
W20-8-18	**18"x18"**	**STOP - SLOW PADDLE Back to Back**	**2**	**5**	**10**
W20-52P-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)		12	
W21-1-48	48"x48"	WORKERS		35	
W21-2-48	48"x48"	FRESH OIL		35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or _ MILE		35	
W21-5-48	**48"x48"**	**SHOULDER WORK**	**1**	**35**	**35**
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED		35	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE		35	
W21-6-48	48"x48"	SURVEY CREW		35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT		35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY		35	
W21-52-48	48"x48"	PAVEMENT BREAKS		35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD		35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK		35	
W24-1-48	48"x48"	DOUBLE REVERSE CURVE		35	

SPECIAL SIGNS

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS**	**576**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY
704-0100	**FLAGGING**	**MHR**	**40**
704-1048	PORTABLE RUMBLE STRIPS	EACH	
704-1050	TYPE I BARRICADES	EACH	
704-1052	**TYPE III BARRICADES**	**EACH**	**26**
704-1054	**SIDEWALK BARRICADE**	**EA**	**1**
704-1060	**DELINEATOR DRUMS**	**EACH**	**50**
704-1065	TRAFFIC CONES	EACH	
704-1067	**TUBULAR MARKERS**	**EACH**	**50**
704-1070	DELINEATOR	EACH	
704-1072	FLEXIBLE DELINEATORS	EACH	
704-1080	STACKABLE VERTICAL PANELS	EACH	
704-1081	VERTICAL PANELS - BACK TO BACK	EACH	
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH	
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH	
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH	
704-1500	OBLITERATION OF PVMT MK	SF	
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH	
762-0200	RAISED PAVEMENT MARKERS	EACH	
762-0420	SHORT TERM 4IN LINE - TYPE R	LF	
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF	

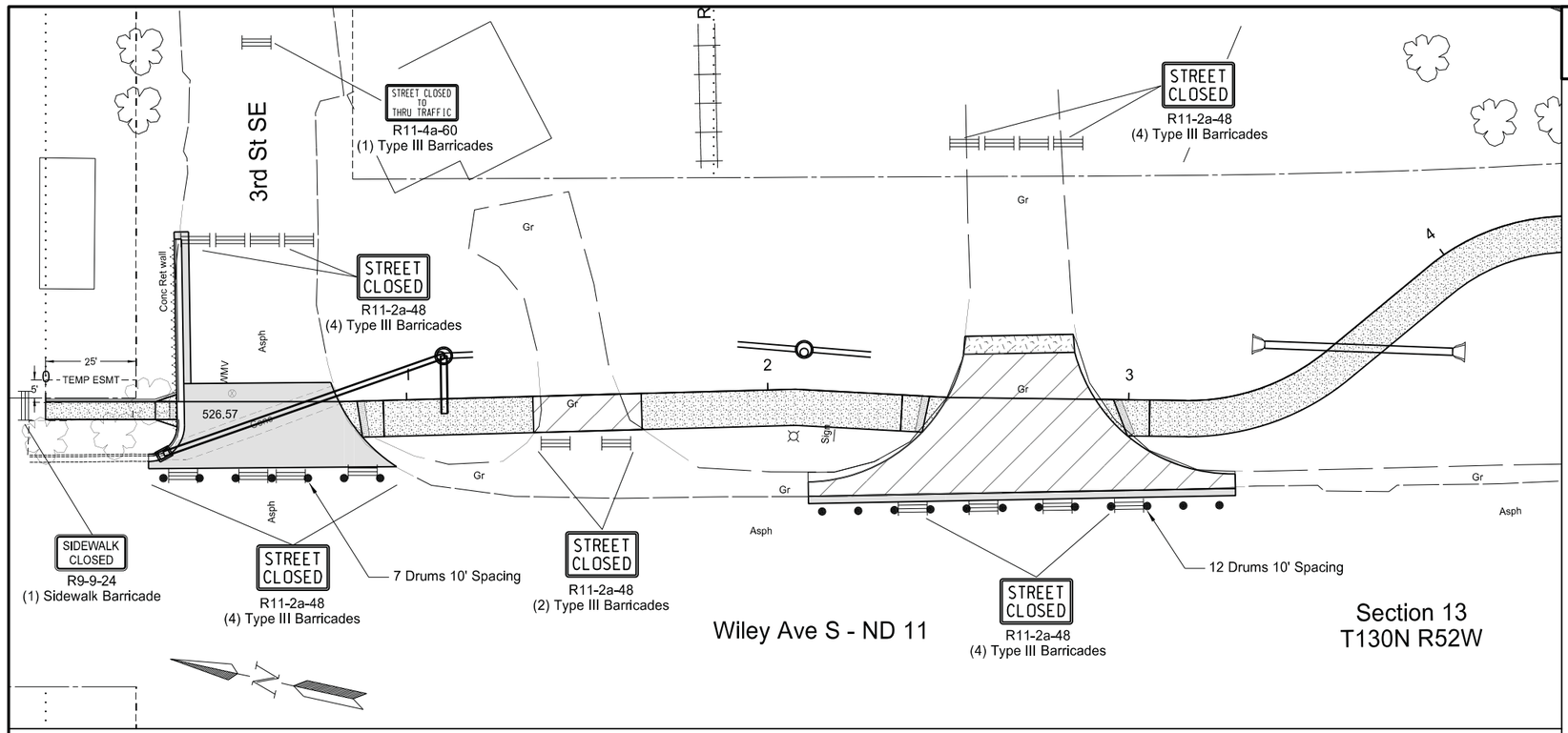
NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
http://www.dot.nd.gov/

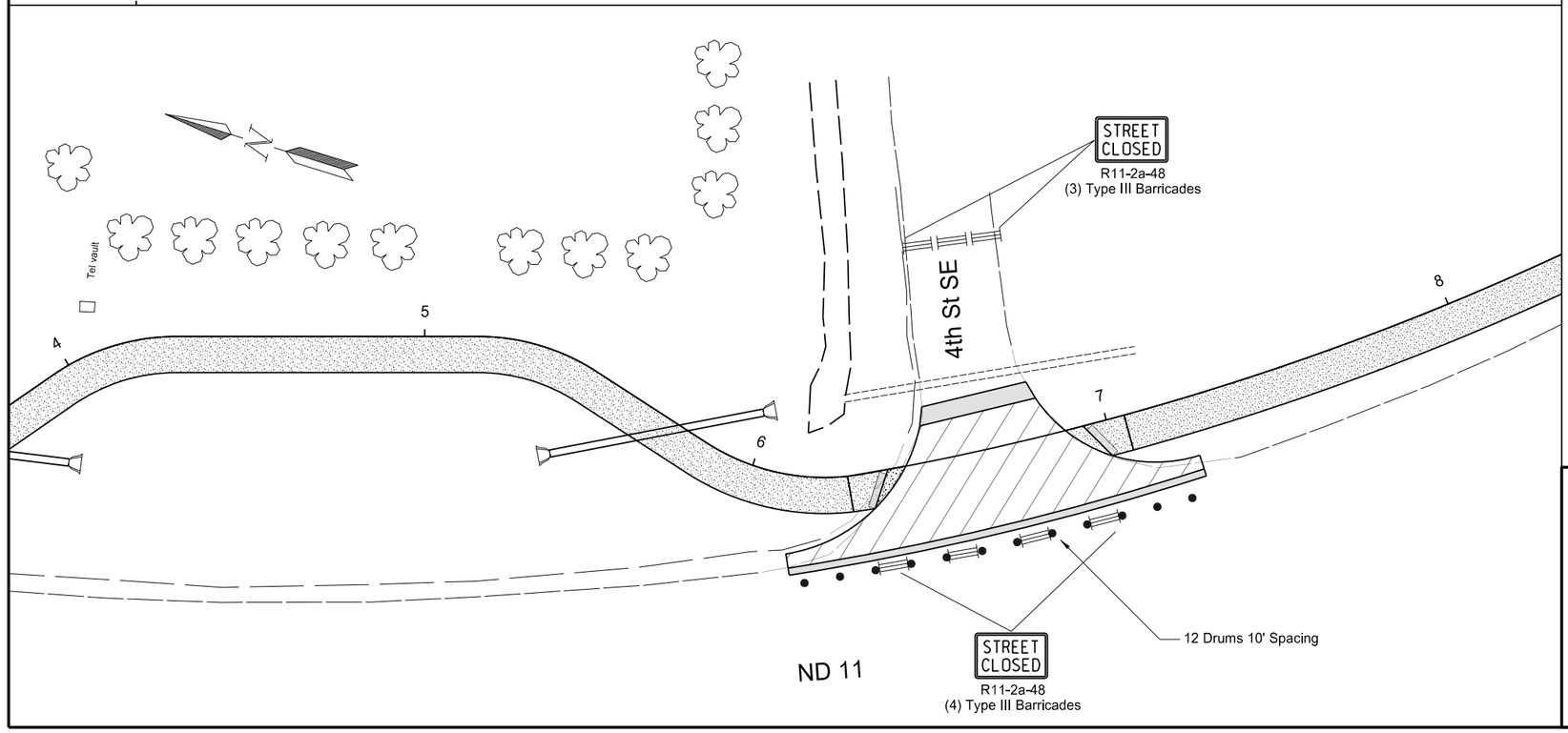
Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
5/26/2026

Traffic Control Devices List
From 3rd St SE to Dollar General Store
ND11 in Lidgerwood
Shared use Path
Richland County, North Dakota

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

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

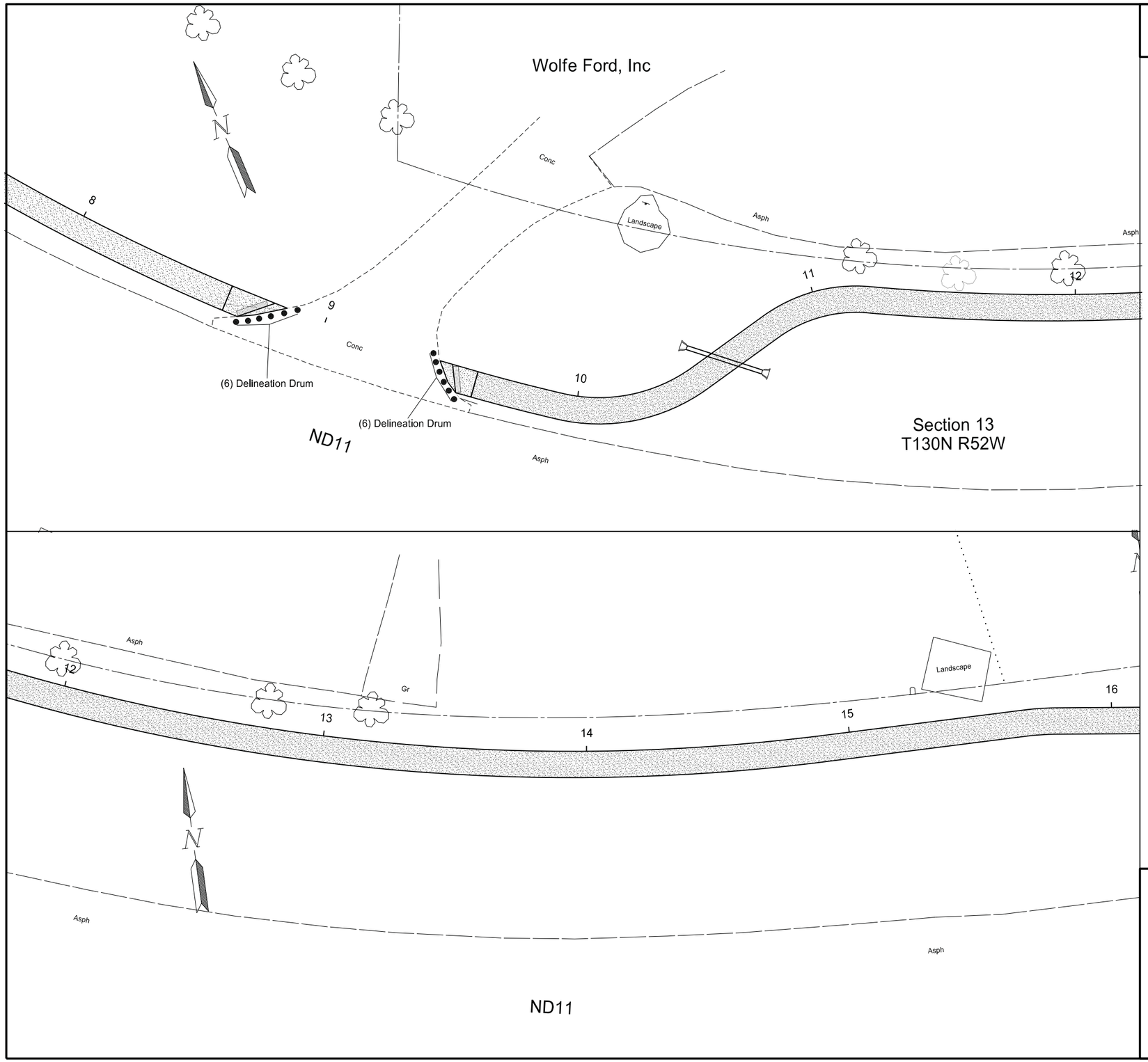
Shared Use Path

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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

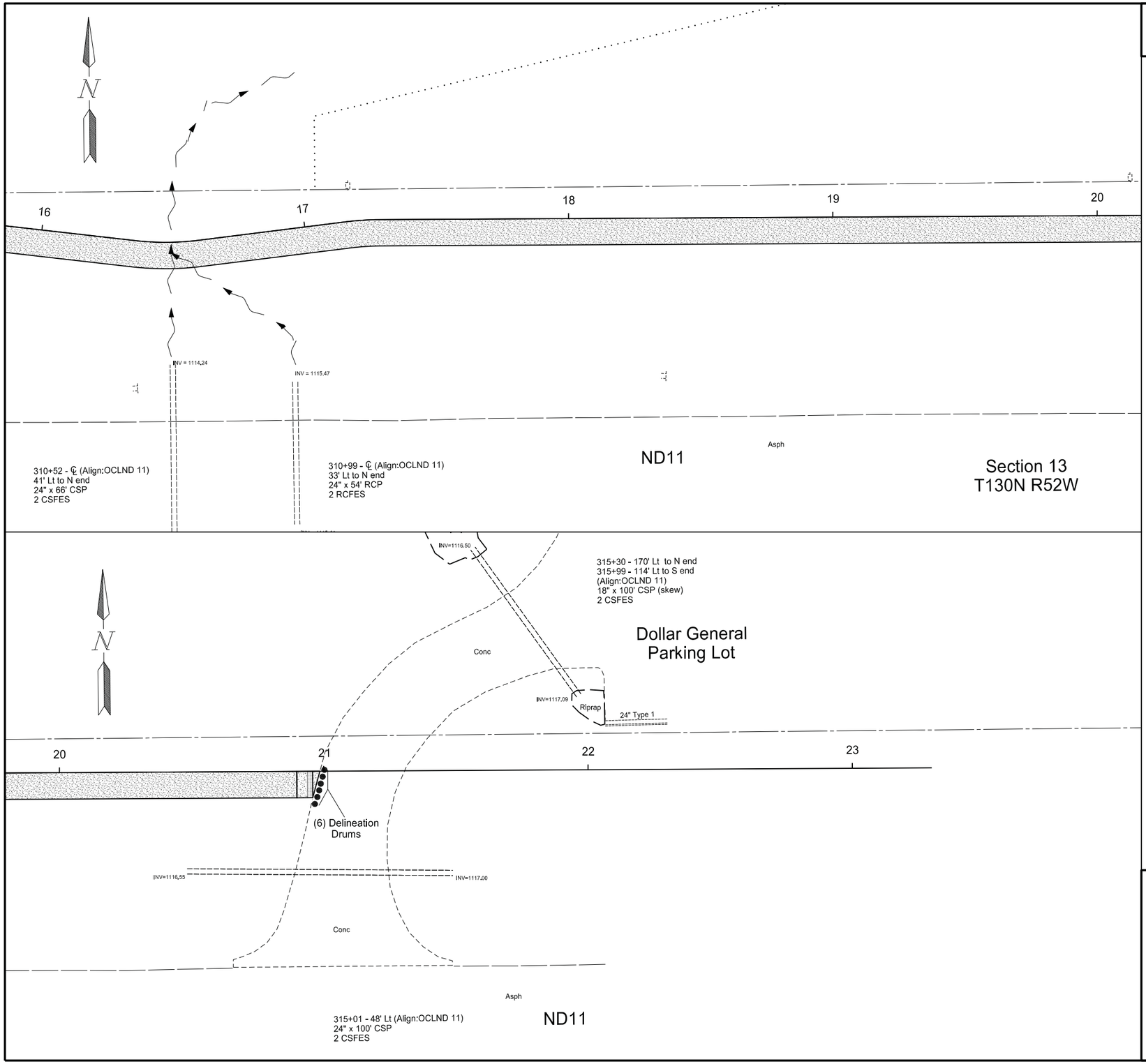
Shared Use Path

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	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

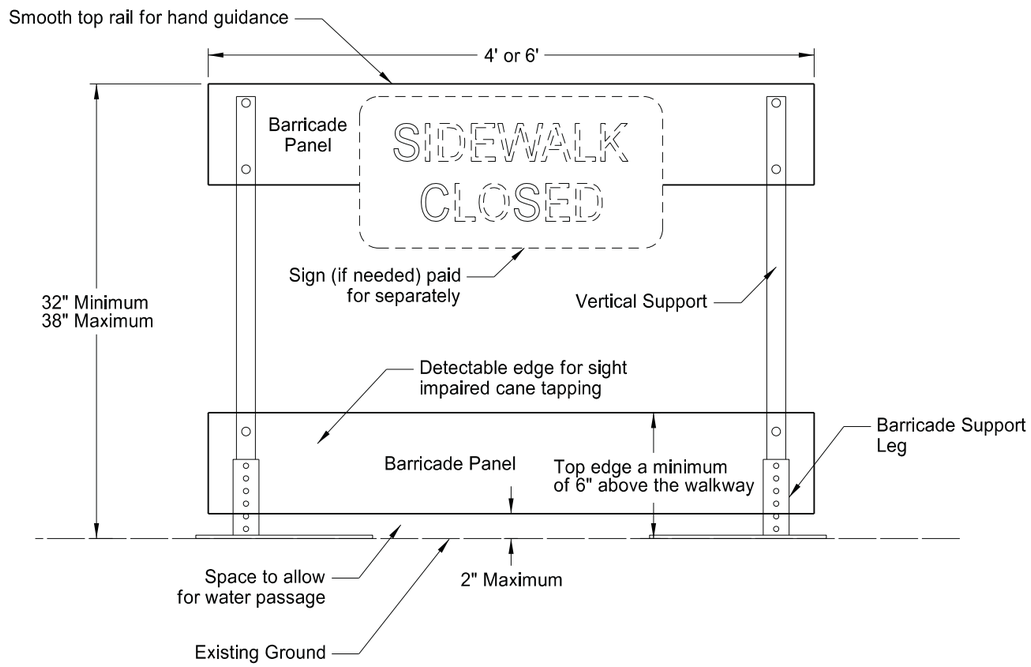
Richland County, North Dakota

Damon K. DeVillers
REGISTERED
PROFESSIONAL
P.E. 3523
ENGINEER
NORTH DAKOTA
8/26/2026

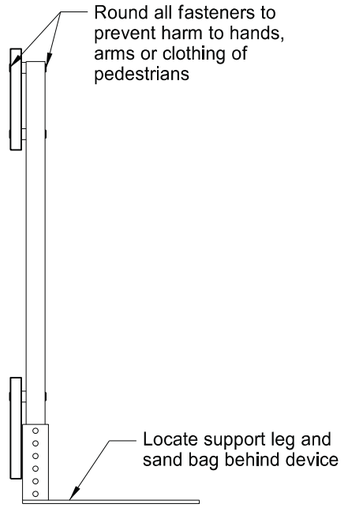
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	100	5



Front View

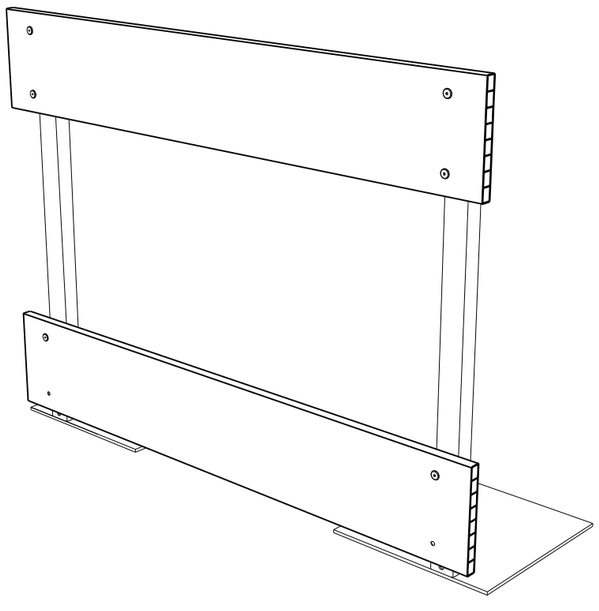


End View

NOTES:

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

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	NDS-SS-8-011(053)153	110	1

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
0+34 Lt	R1-1-30	1		5.2	9.7				7.0	2 x 2 12 ga	10.5						1	4	2.25 x 2.25 12 ga				
0+89 Lt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
0+94 Rt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
2+36 Rt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
2+37 Lt	RESET	1			11.3				5.0	2.25 x 2.25 12 ga	13.7						1	4	2.5 x 2.5 12 ga	1			
2+37 Lt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
3+00 Lt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
3+08 Rt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
4+90 Rt	RESET	27			9.9				5.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga	1			
6+16 Rt	RESET	9			11.2				5.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga	1			
6+25 Rt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
6+26 Lt	RESET	1			11.3				5.0	2.25 x 2.25 12 ga	13.7						1	4	2.5 x 2.5 12 ga	1			
6+26 Lt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
6+95 Lt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
7+69 Rt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
8+60 Rt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
8+67 Lt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
8+79 Lt	RESET	1			11.3				5.0	2.25 x 2.25 12 ga	13.7						1	4	2.5 x 2.5 12 ga	1			
9+57 Lt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
9+61 Rt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
11+56 Lt	W1-4L-18	102		2.3	7.4				4.0	2 x 2 12 ga	17.8						1	4	2.25 x 2.25 12 ga				
20+86 Rt	R1-1-18	100		1.9	7.0				4.0	2 x 2 12 ga	21.4						1	4	2.25 x 2.25 12 ga				
20+89 Lt	R5-3-24	14		4.0	7.6				4.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
Sub Total			0.0	54.7	**Total**	188.9											**Total**	92.0		5	0	0	
Grand Total			**0.0**	**54.7**	**Total**	**188.9**											**Total**	**92**	**0**	**5**	**0**	**0**	

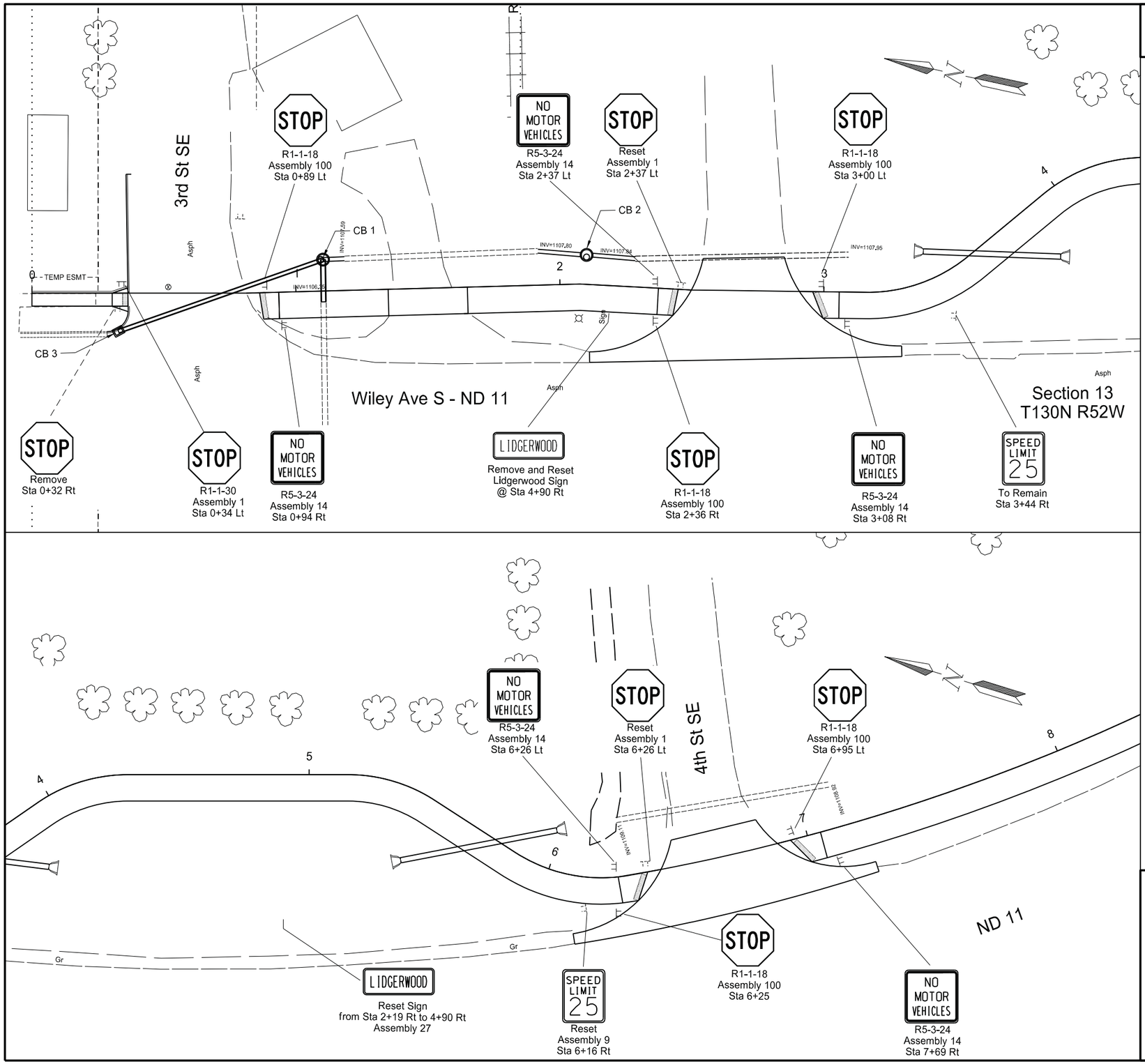


Sign Summary
Perforated Tube

Shared Use Path
ND11 from 3rd St SE to Dollar General Store
Lidgerwood, ND

Docusign Envelope ID: 31796B78-B5D7-8CF7-818A-FF5D92D07BAA

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

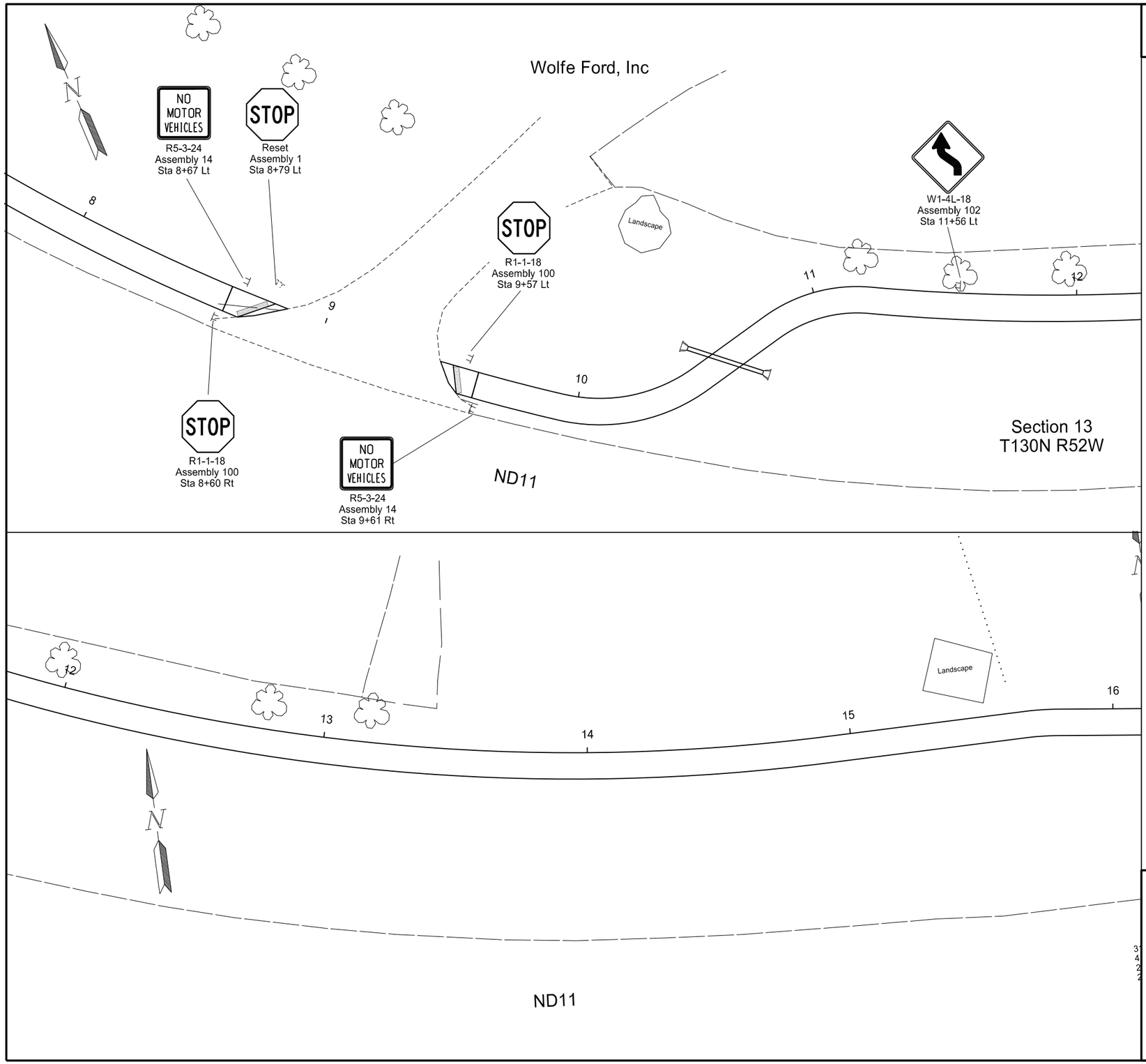
Shared Use Path

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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

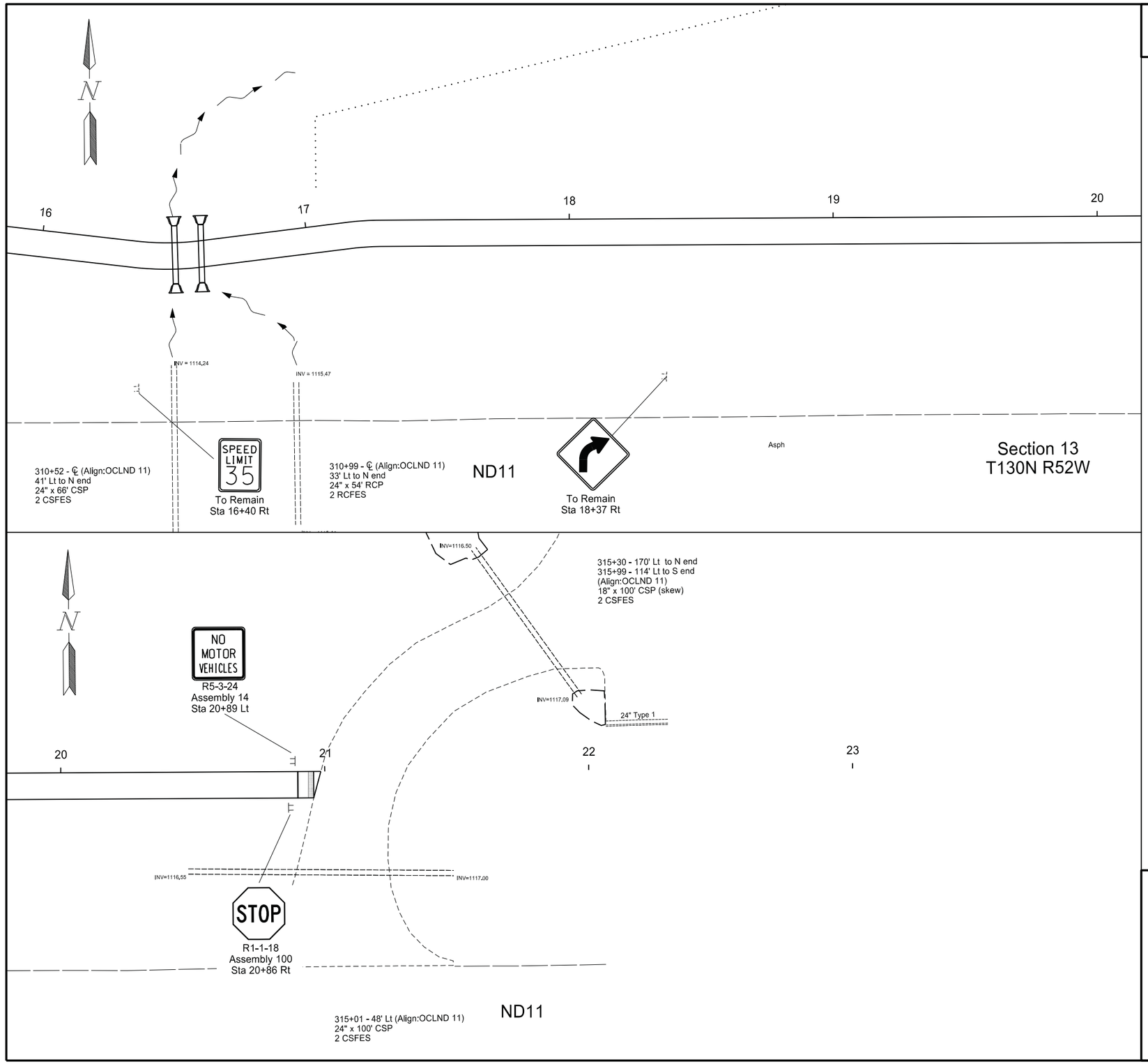
Shared Use Path

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	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

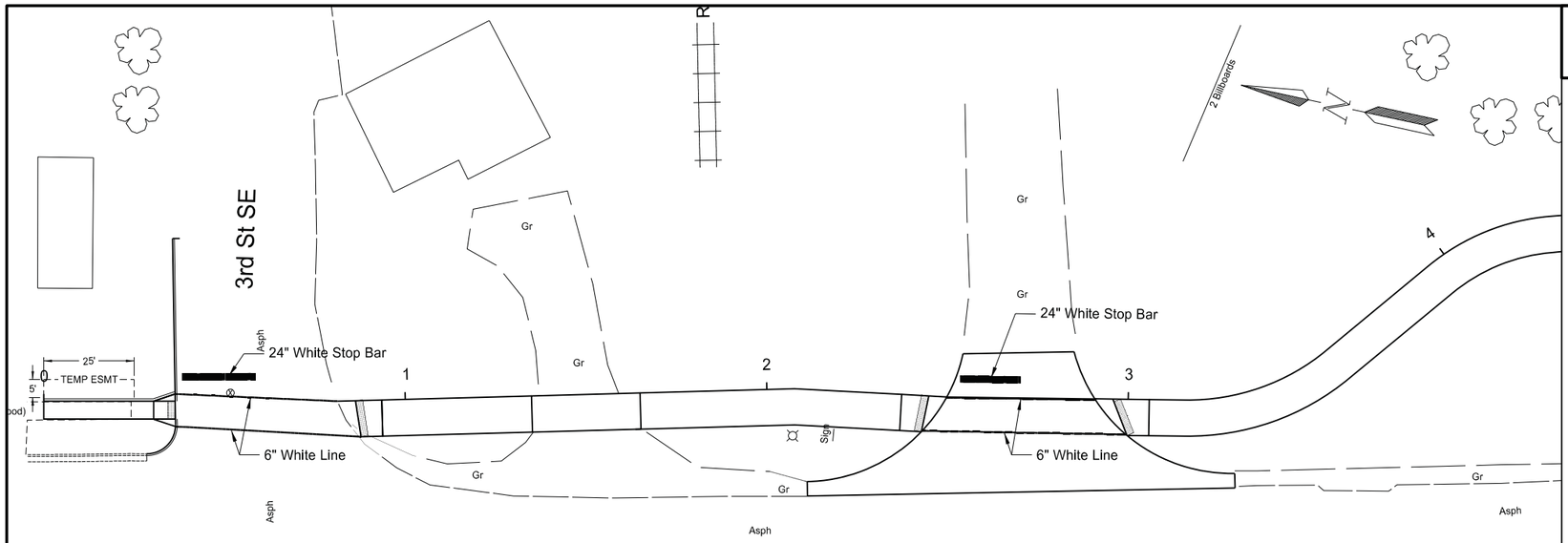
Shared Use Path

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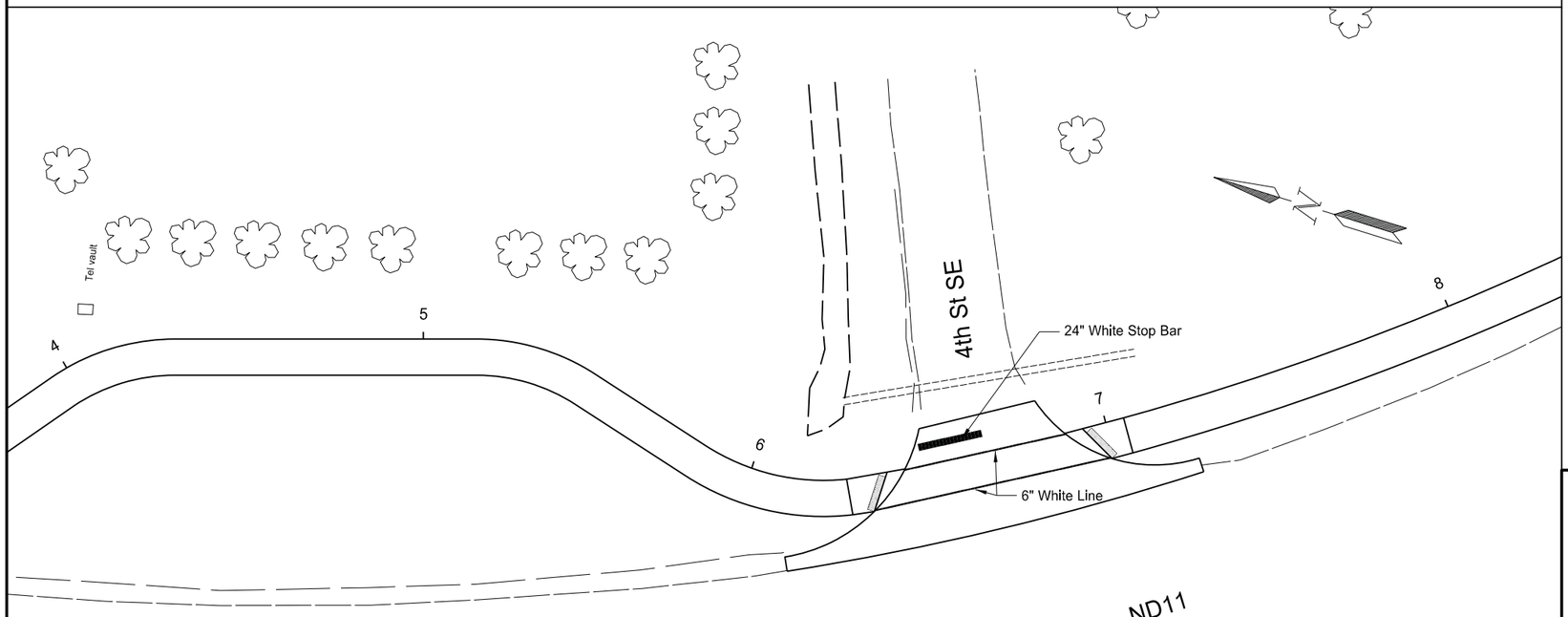
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Wiley Ave S - ND11

Section 13
T130N R52W



	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

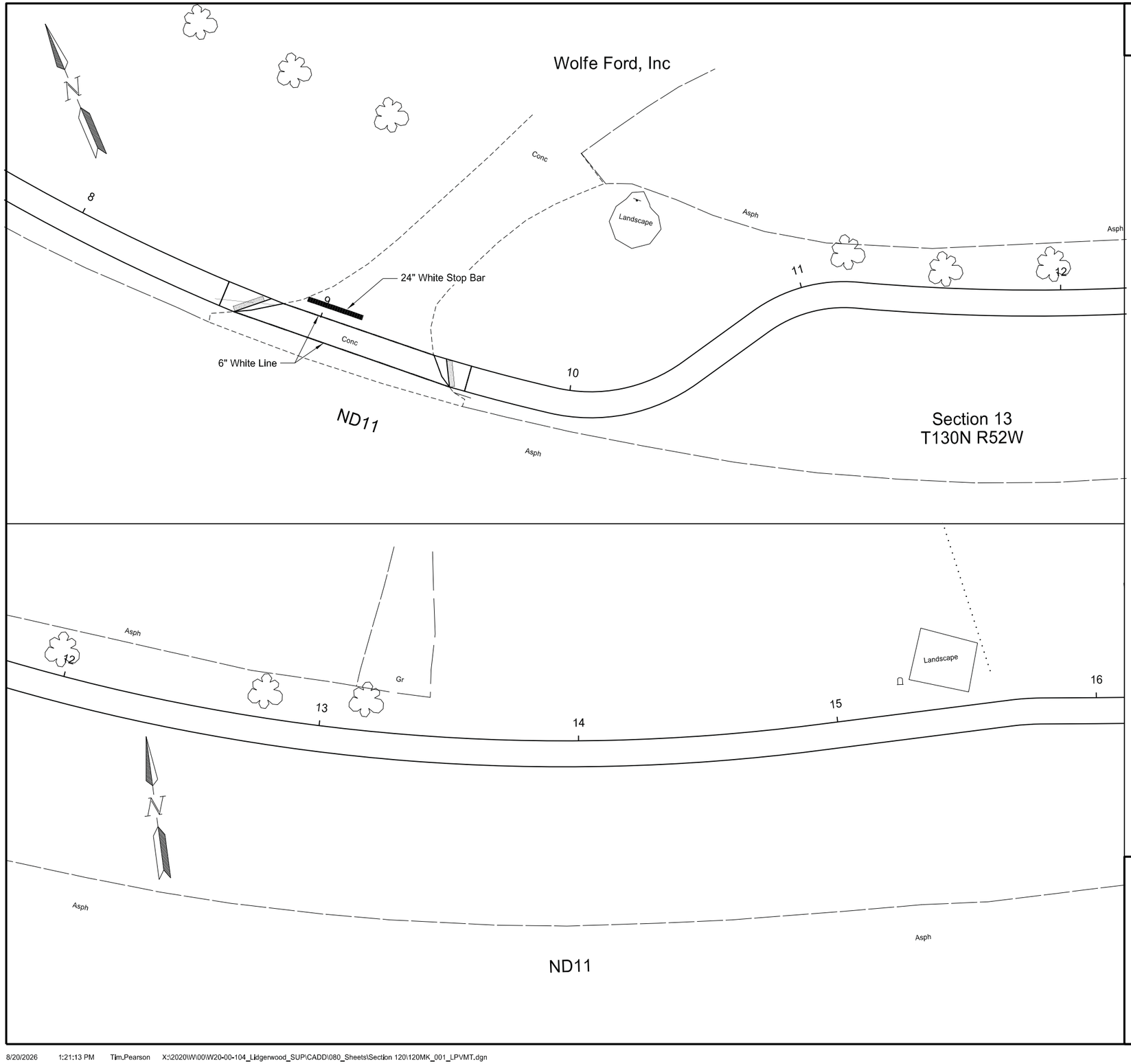
ND11 in Lidgerwood

Shared Use Path

Richland County, North Dakota

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

SPEC	CODE	BID ITEM	UNIT	QTY
762	0114	EPOXY PVMT MK 6IN LINE		
8+65	to	9+55 2 lines	LF	152

SPEC	CODE	BID ITEM	UNIT	QTY
762	0117	EPOXY PVMT MK 24IN LINE		
8+92	to	9+15 Lt	LF	23

Pavement Marking

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

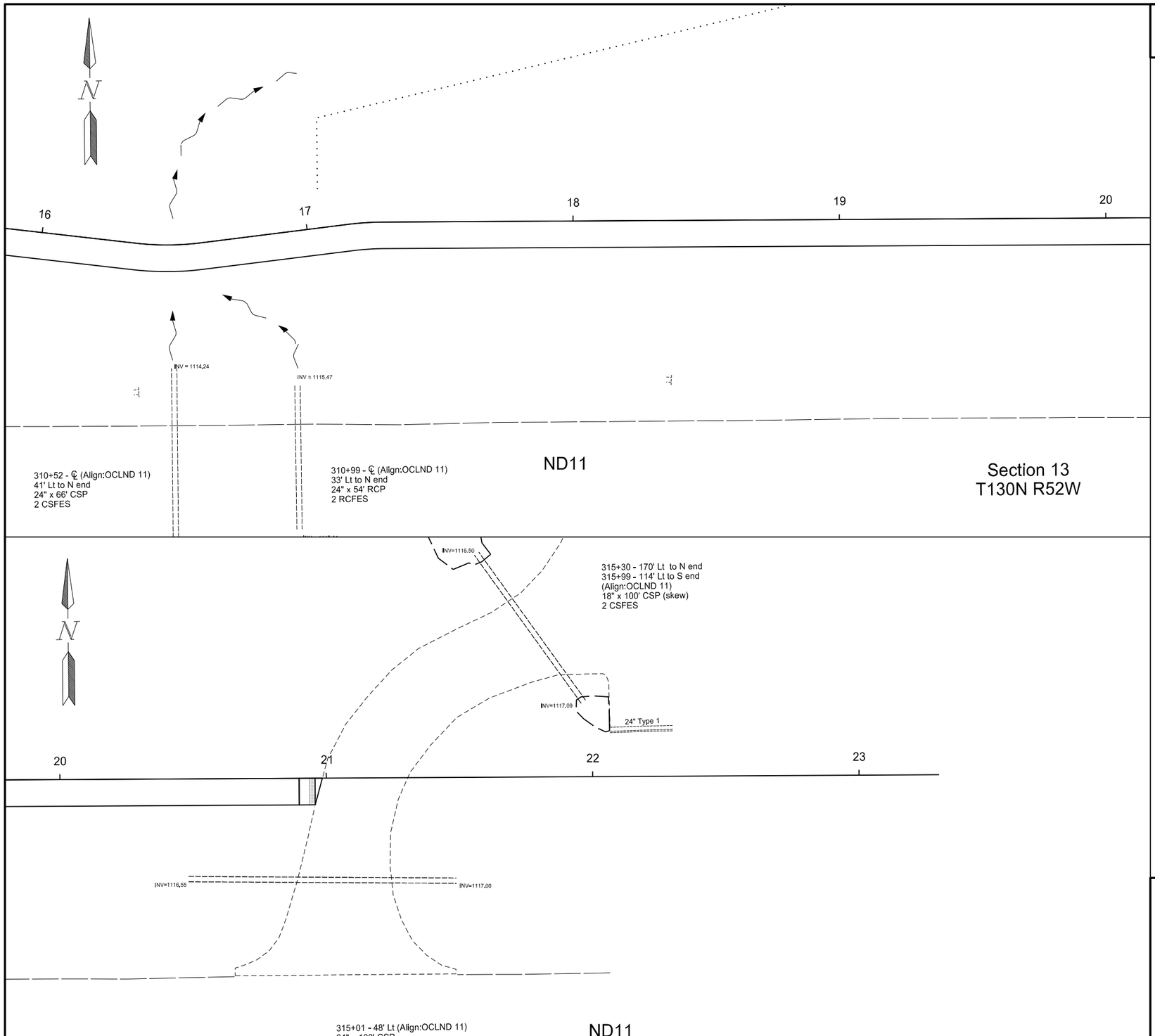
Richland County, North Dakota

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ND	NDS-SS-8-011(053)153	120	3

No pavement marking work on this sheet.



Pavement Marking

From 3rd St SE to Dollar General Store

ND11 in Lidgerwood

Shared Use Path

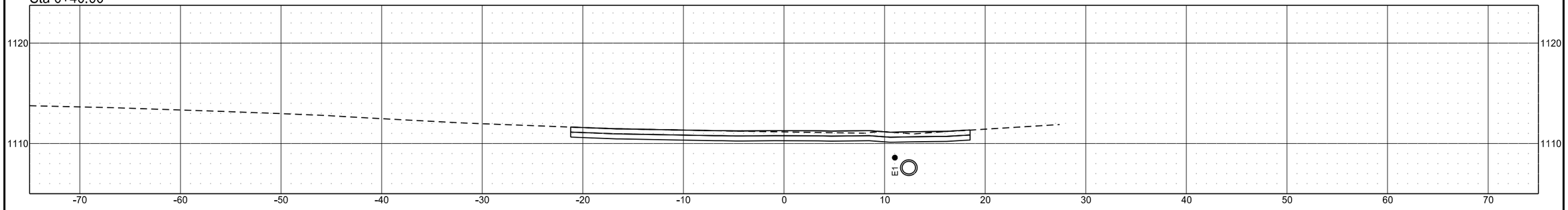
Richland County, North Dakota

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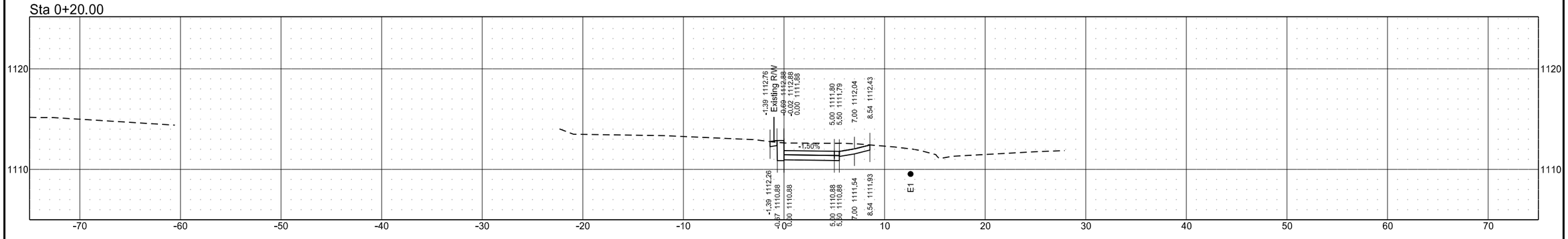
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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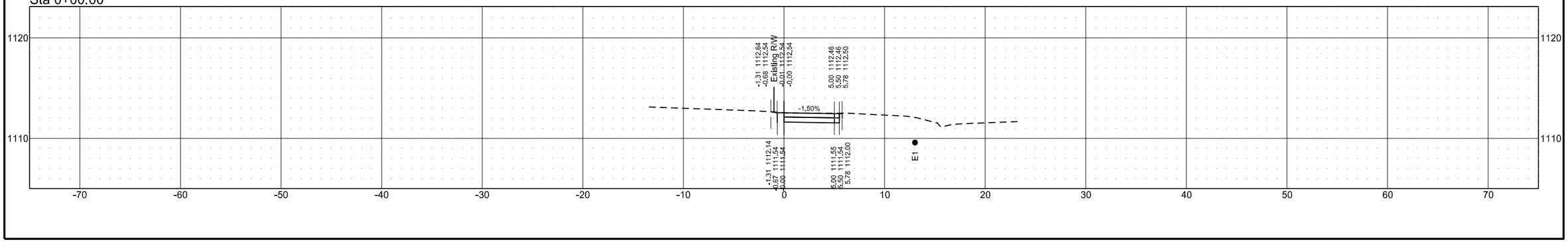
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Sta 0+20.00



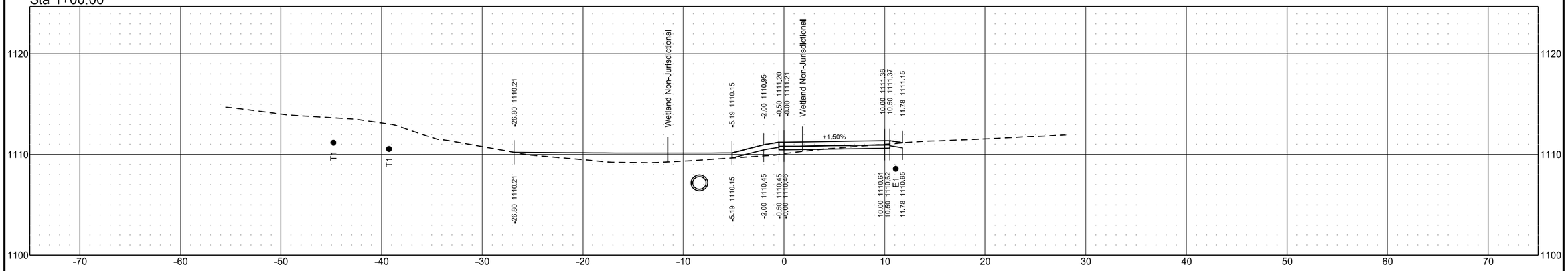
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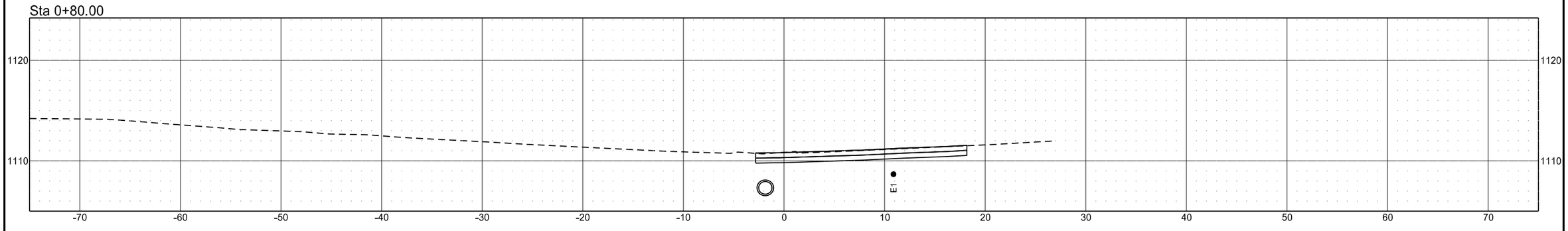
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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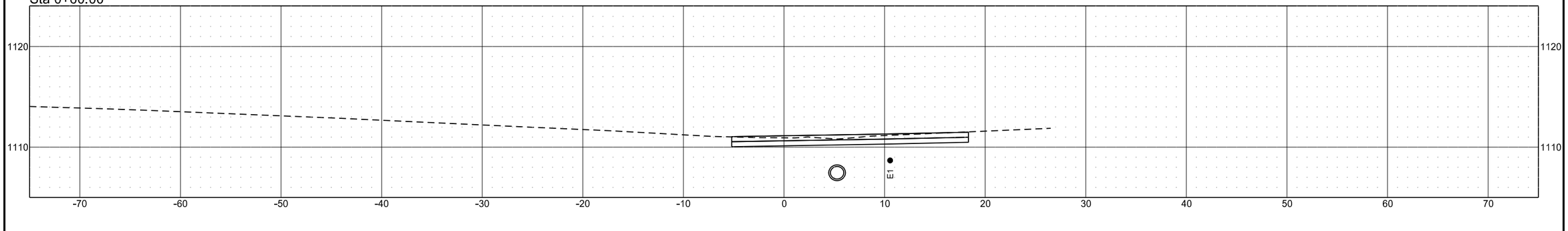
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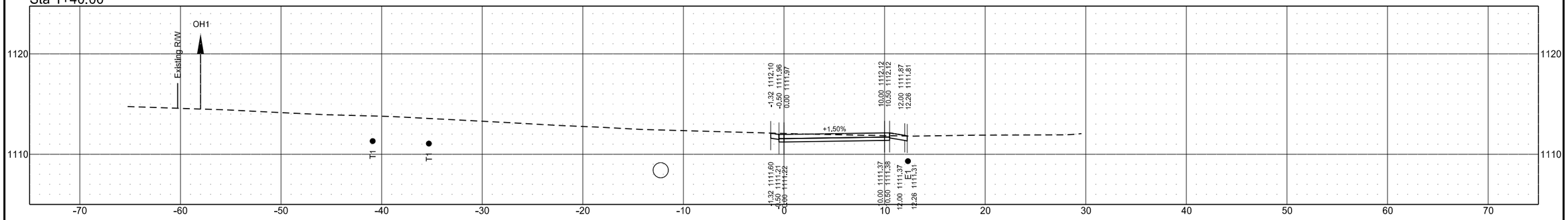
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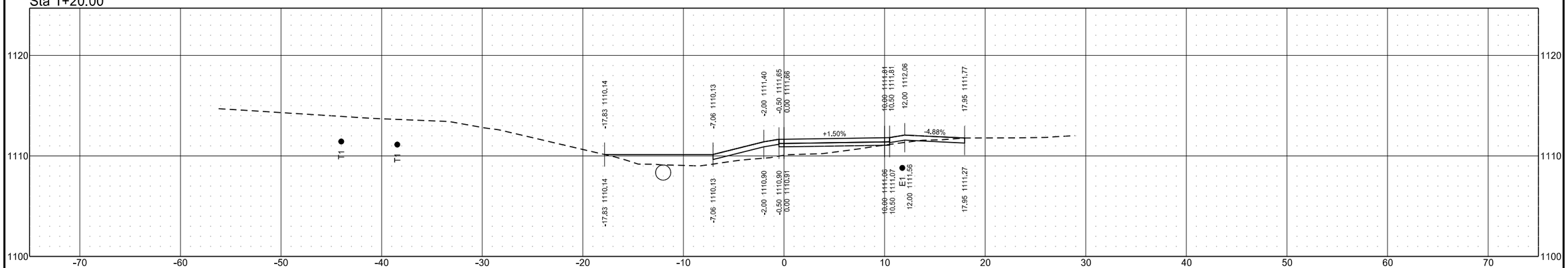
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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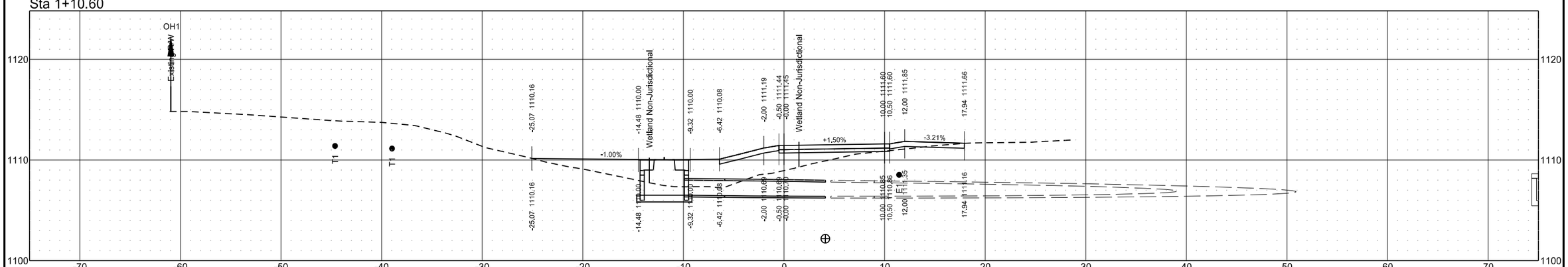
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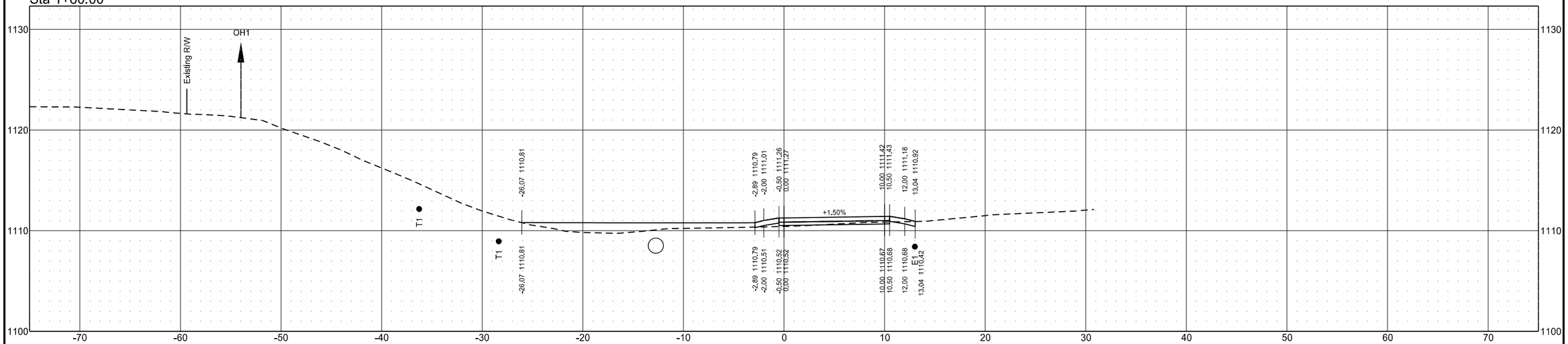
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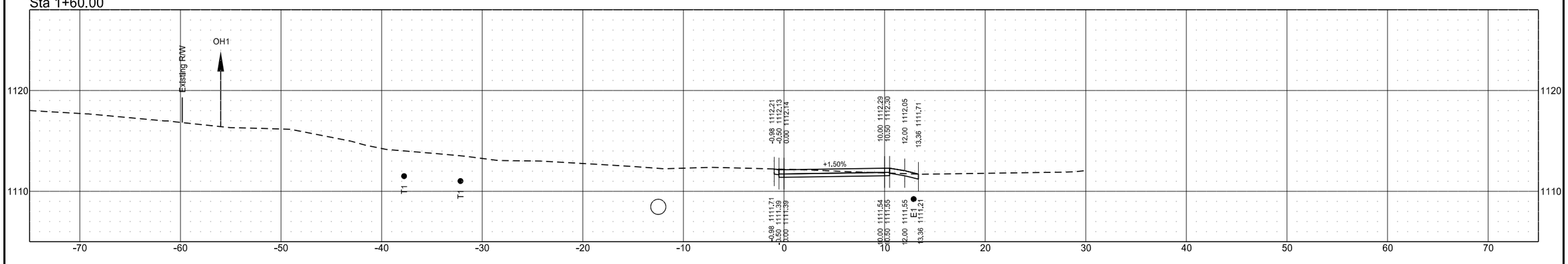
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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Sta 1+80.00



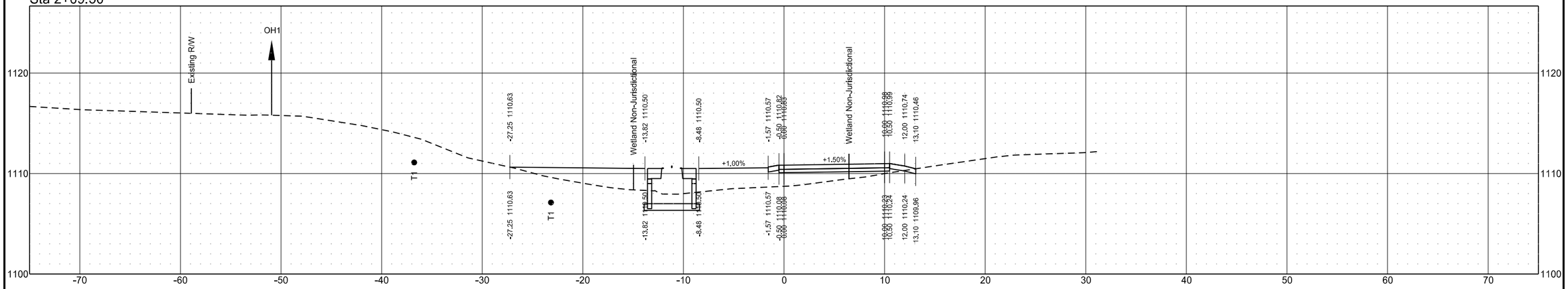
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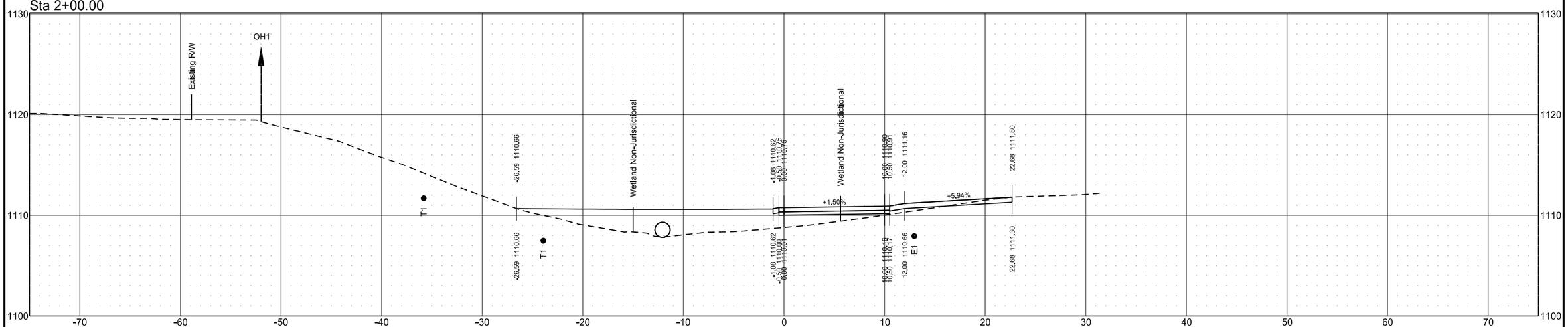
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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Sta 2+09.50



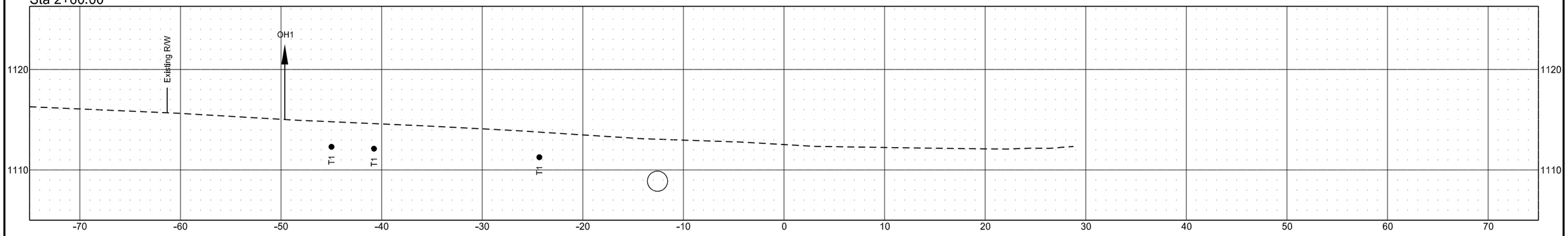
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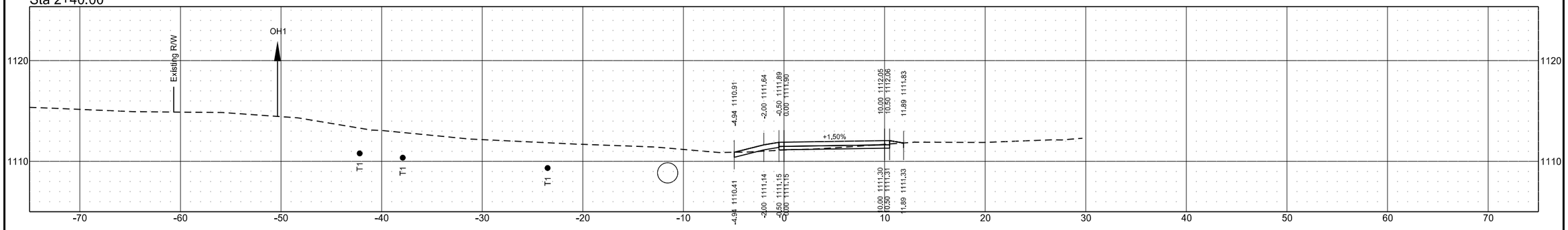
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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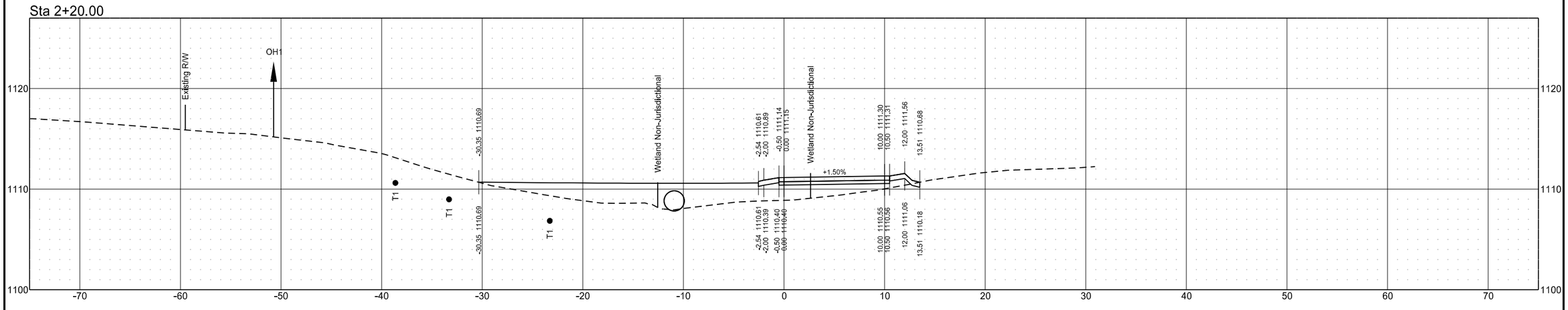
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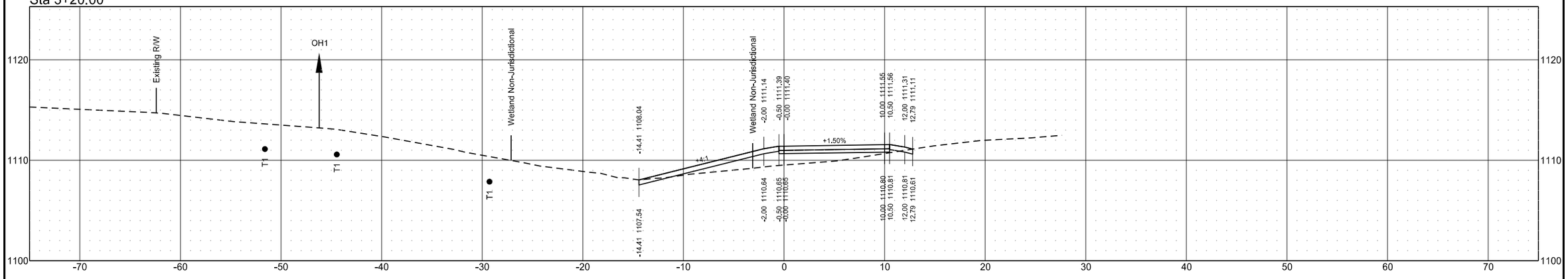
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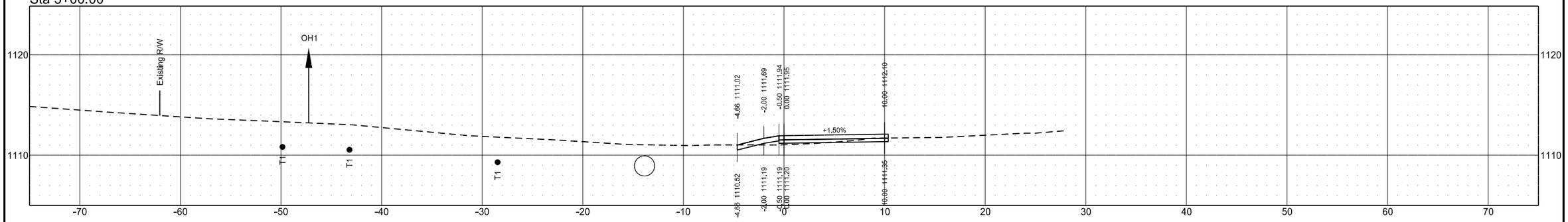
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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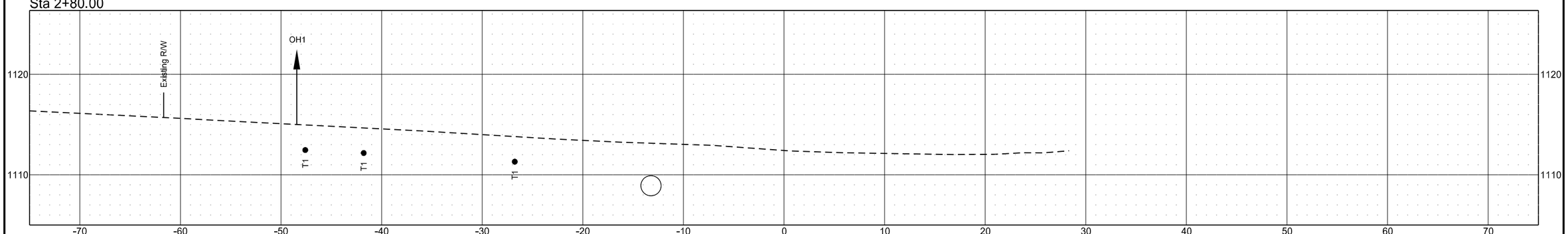
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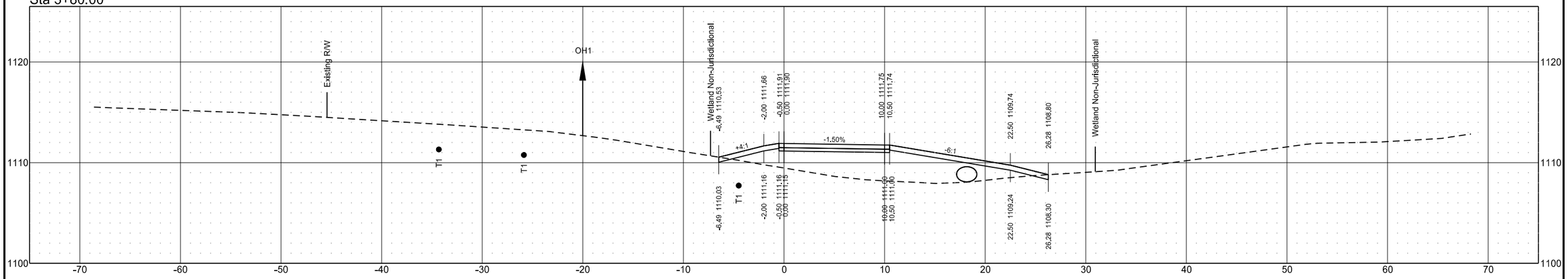
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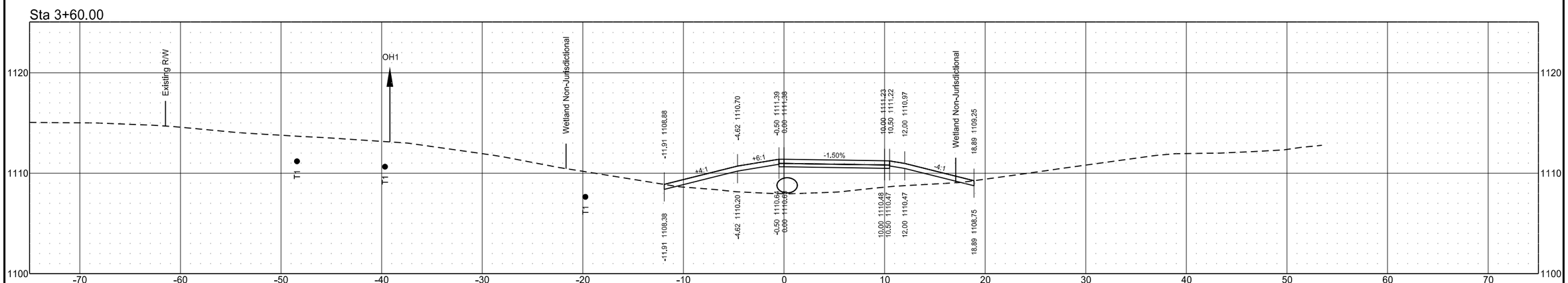
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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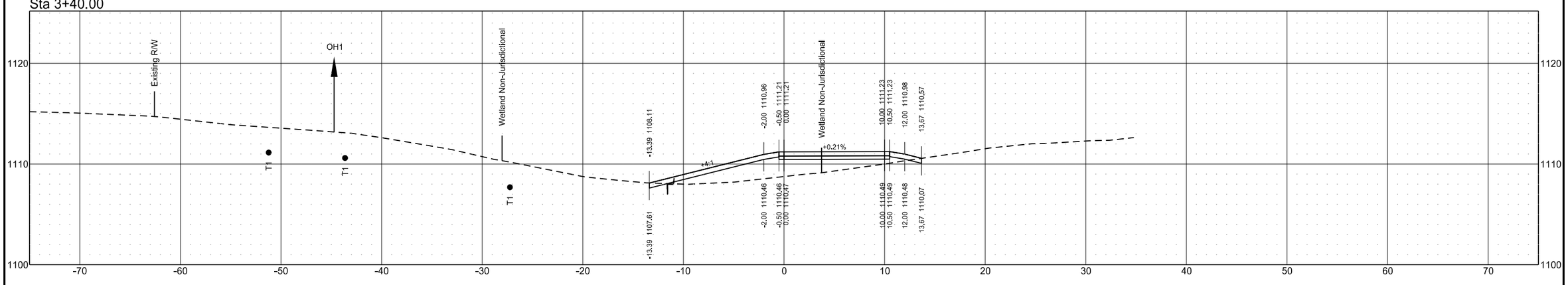
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Sta 3+60.00



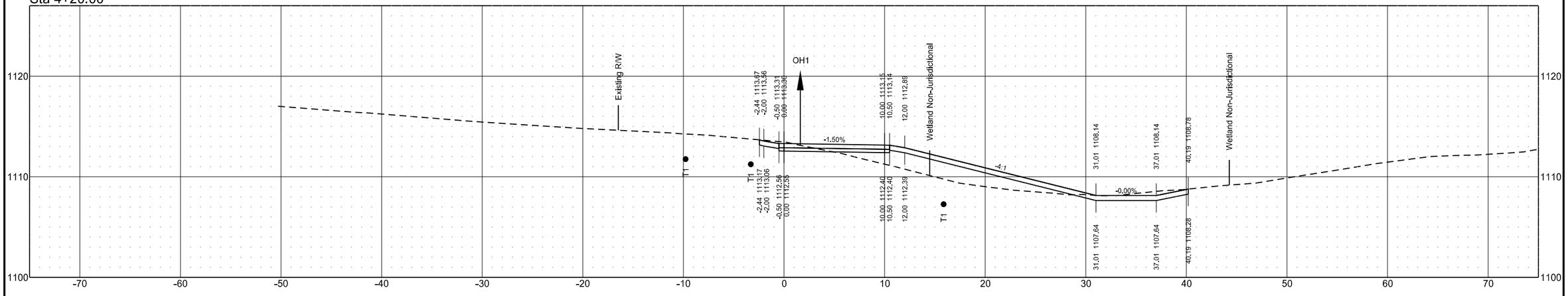
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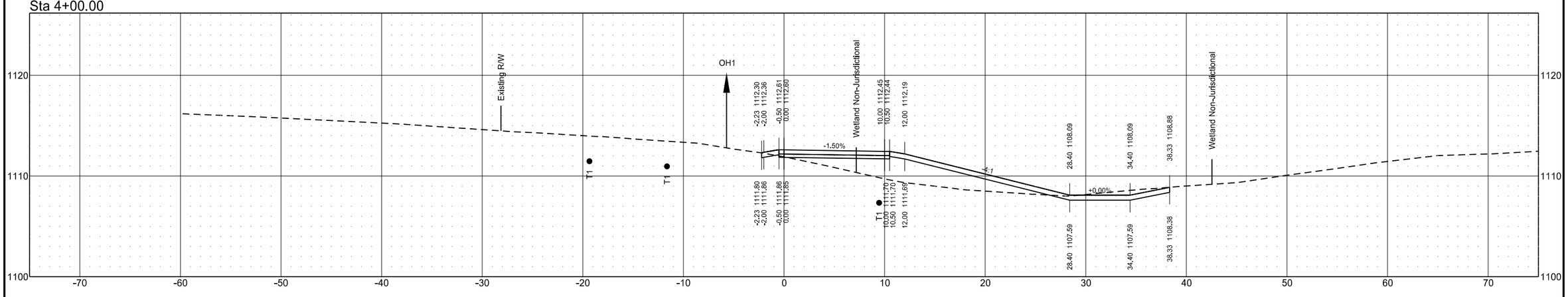
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

Sta 4+20.00



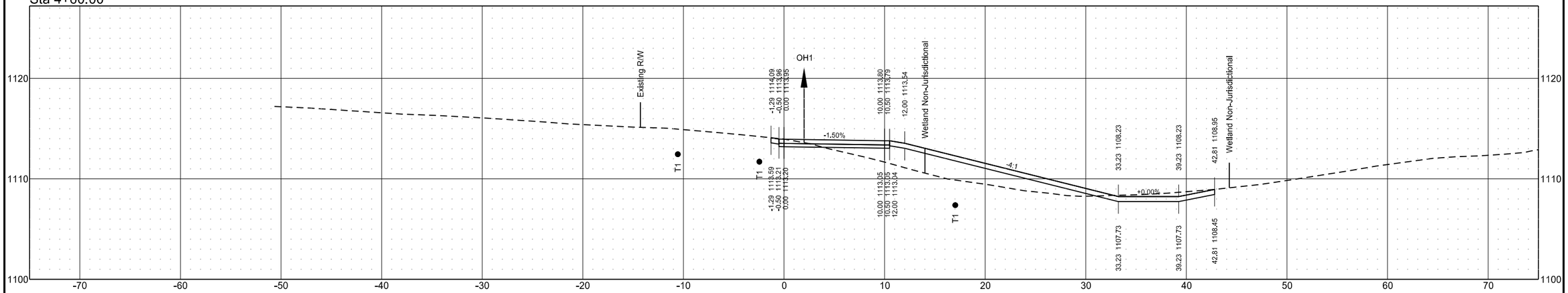
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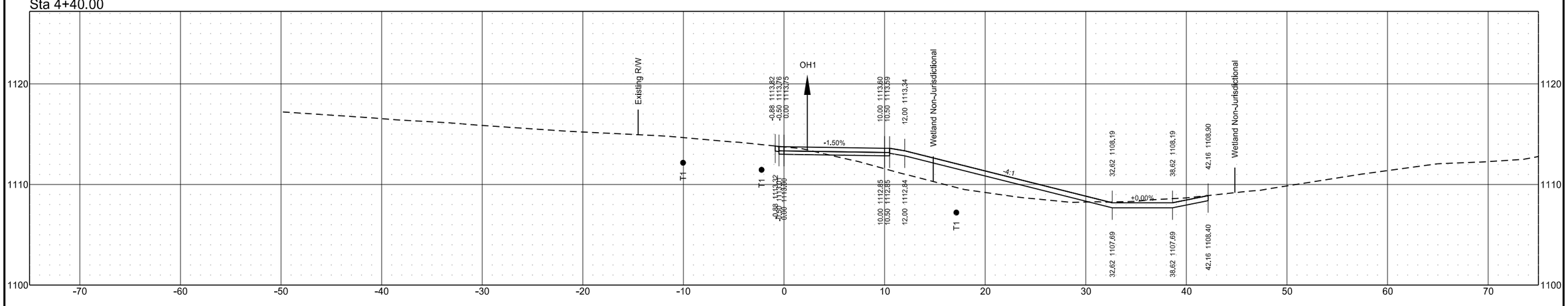
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

Sta 4+60.00



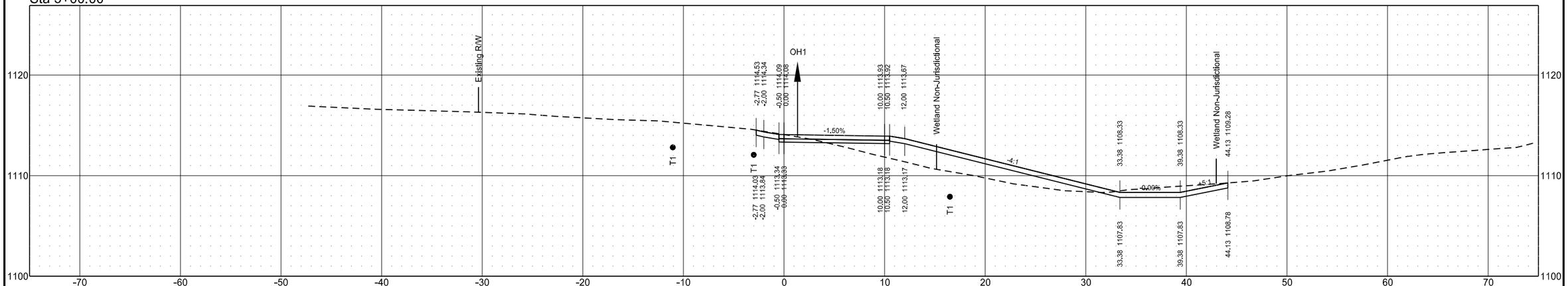
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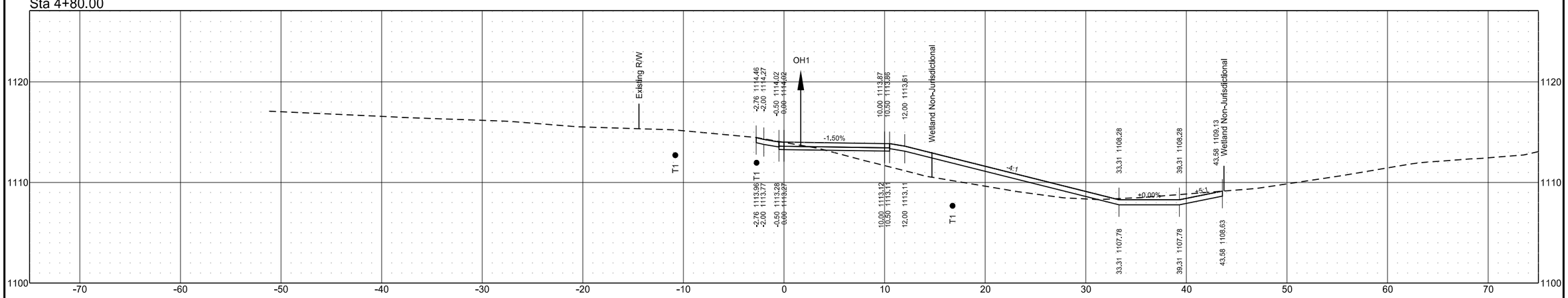
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

Sta 5+00.00



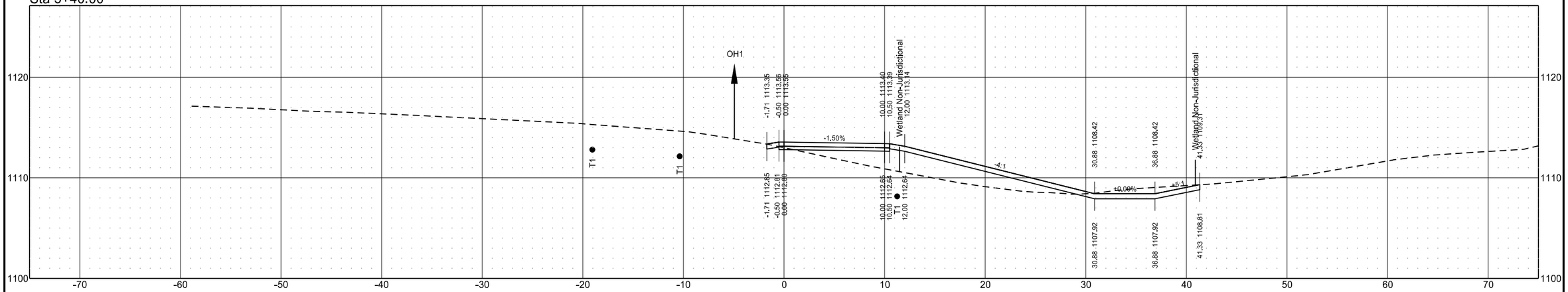
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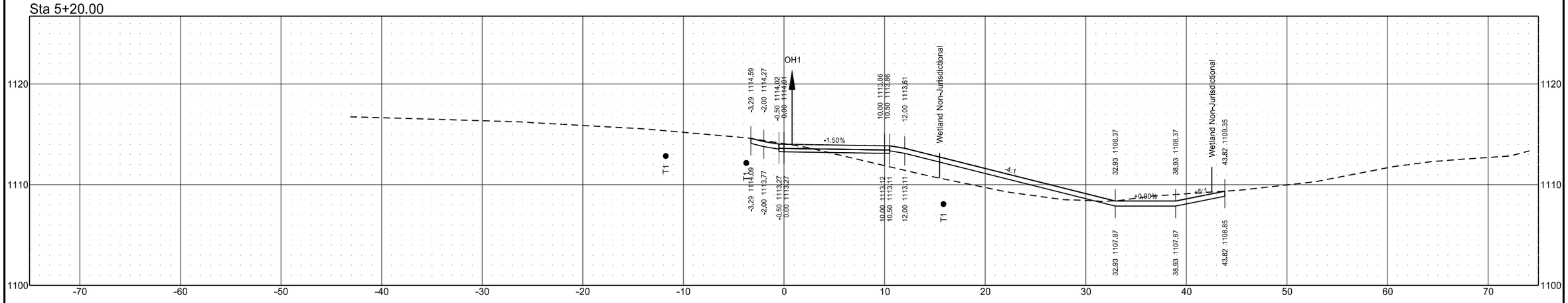
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

Sta 5+40.00



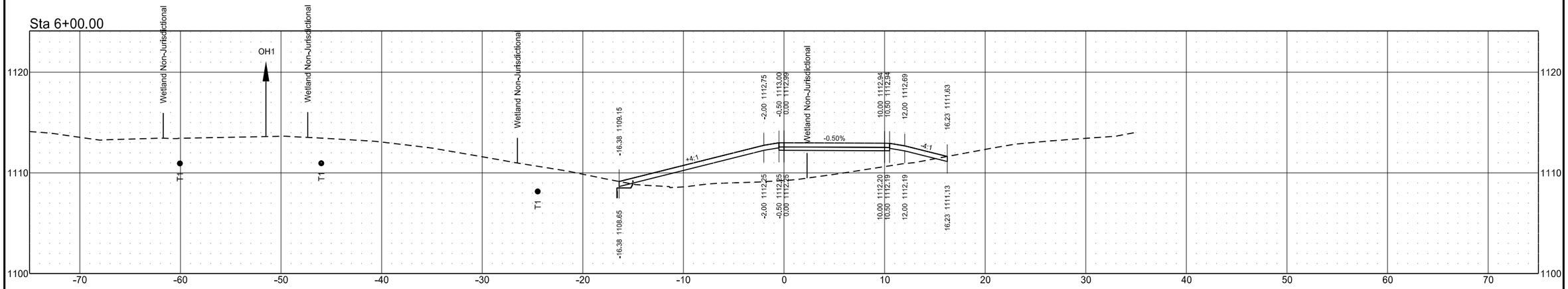
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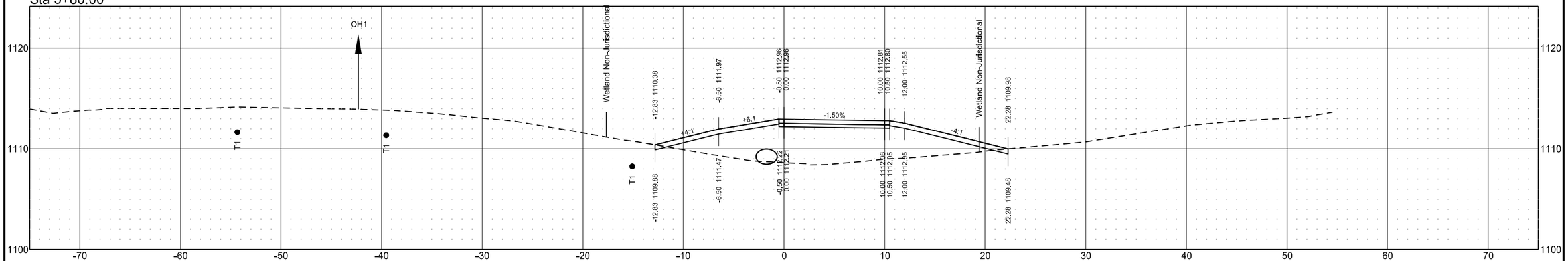
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	13

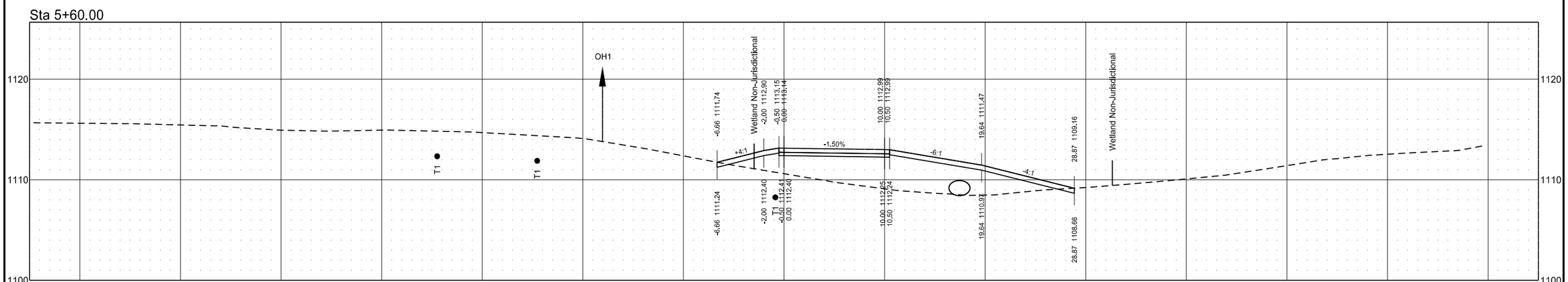
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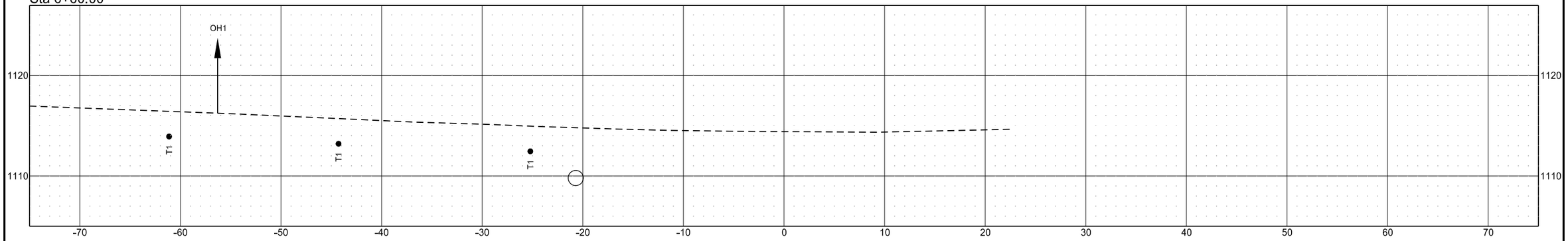
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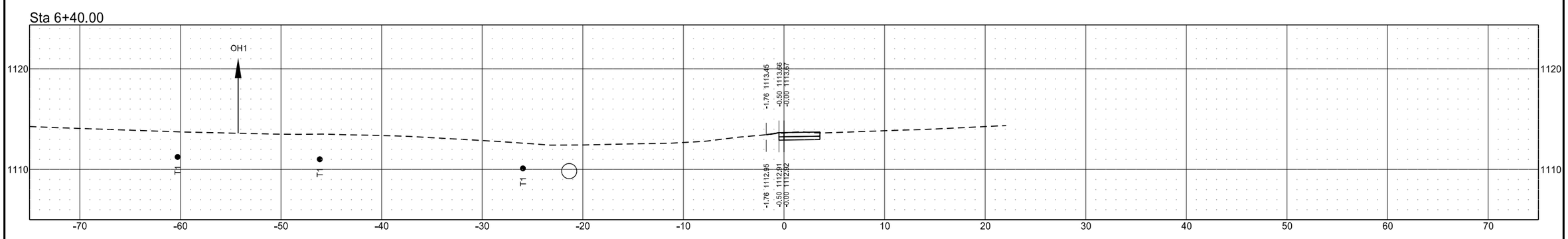
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NDS-SS-8-011(053)153	200	14

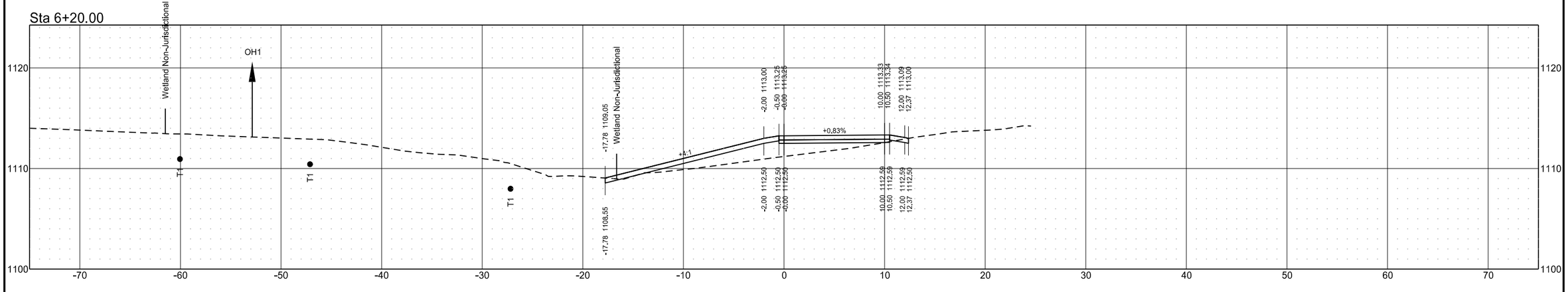
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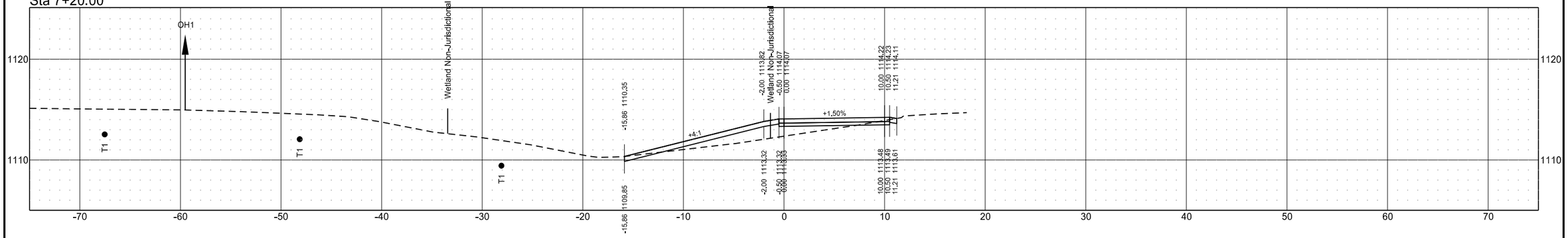
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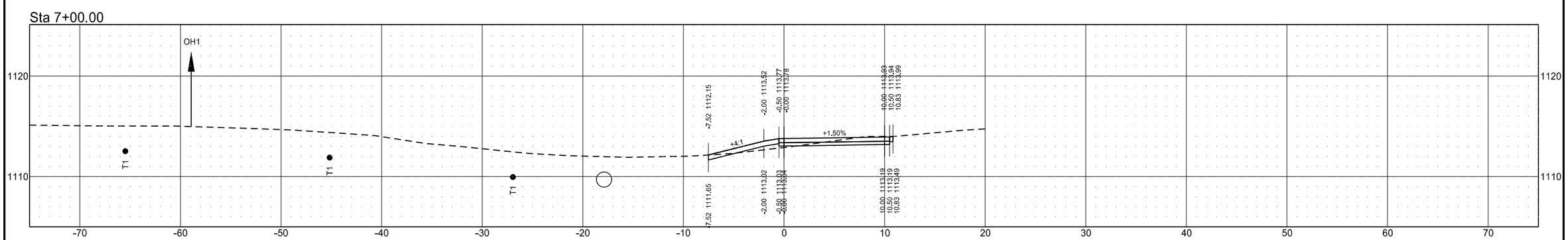
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

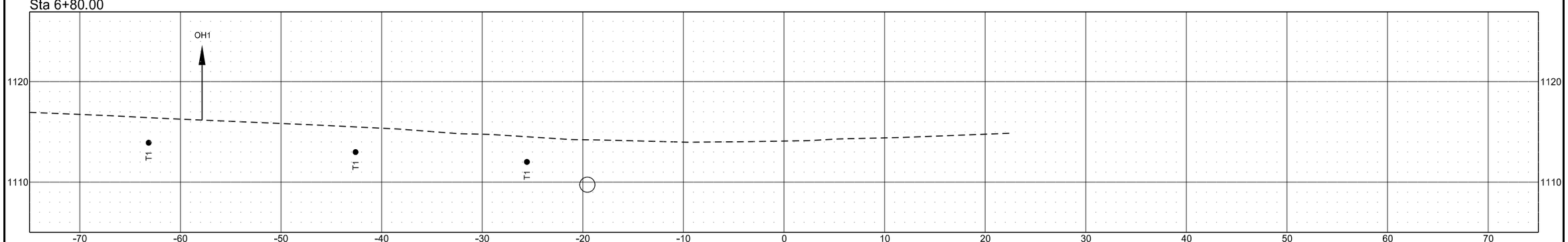
Sta 7+20.00



Sta 7+00.00



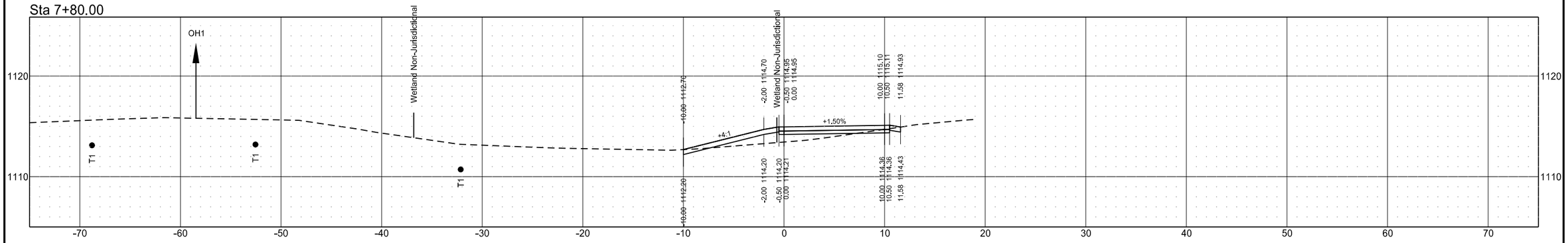
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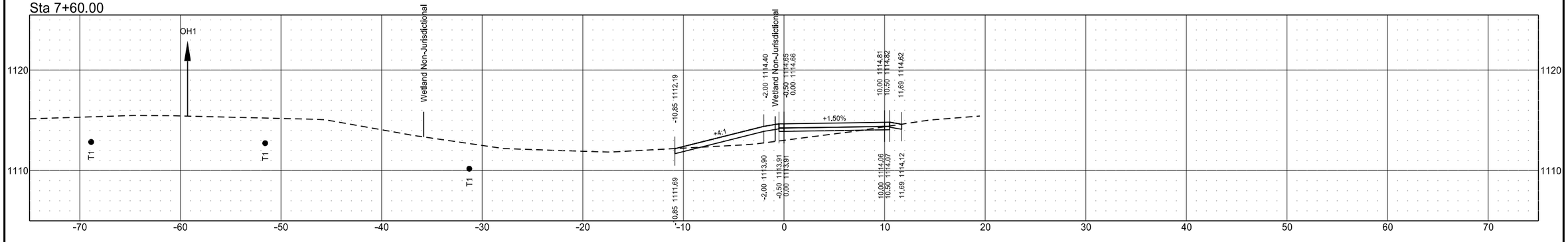
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	16

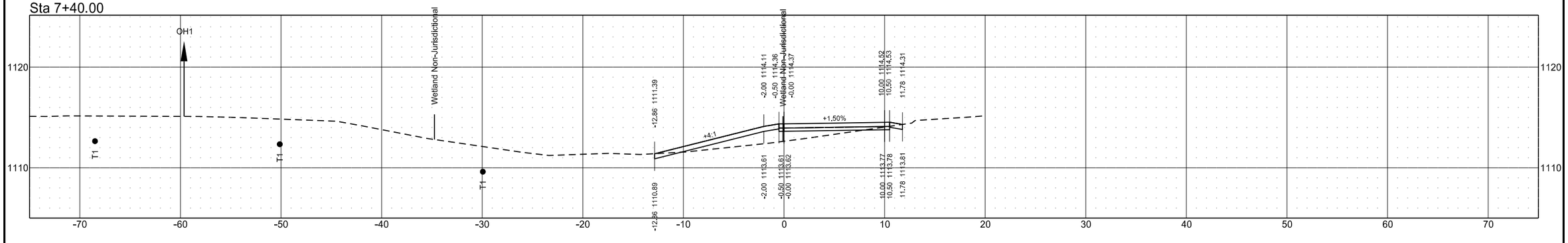
Sta 7+80.00



Sta 7+60.00



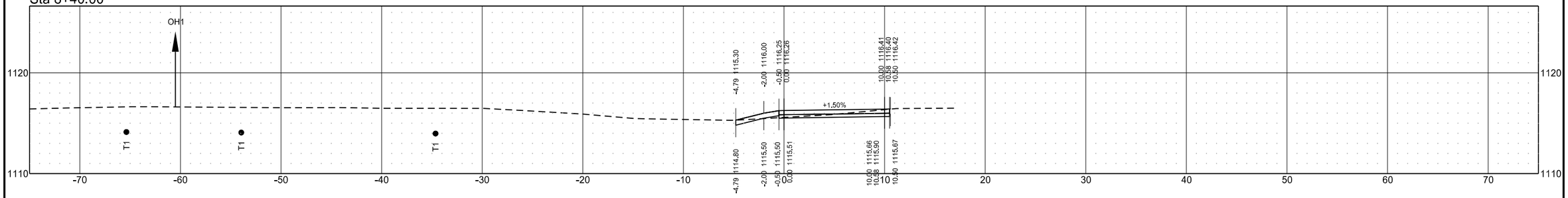
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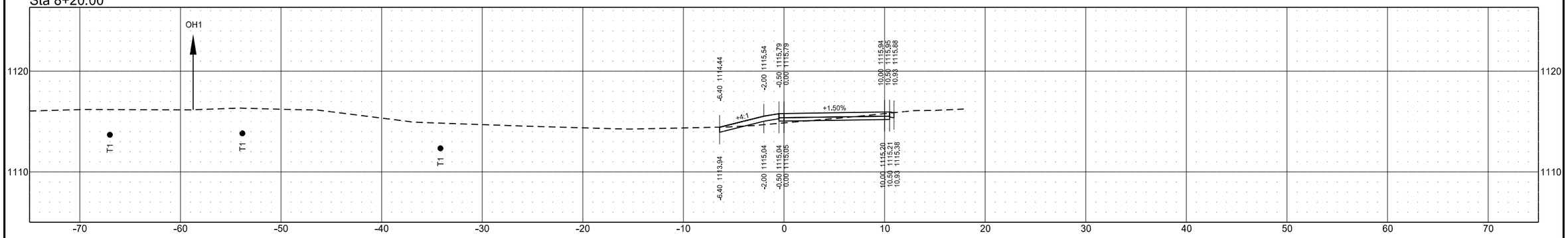
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

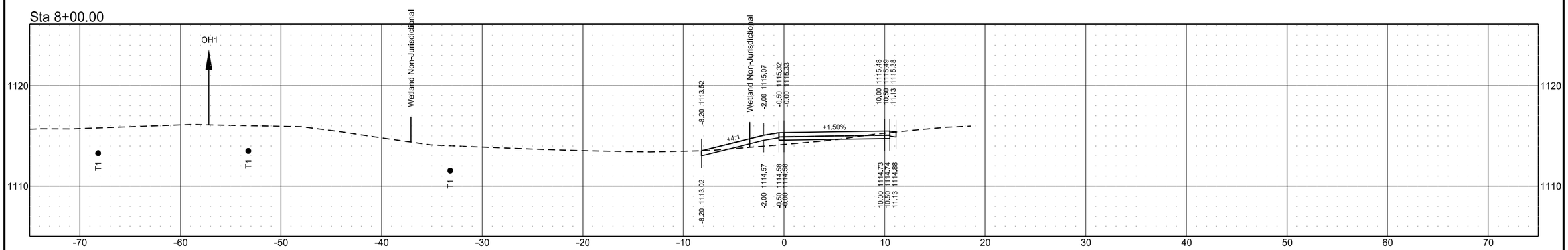
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Sta 8+20.00



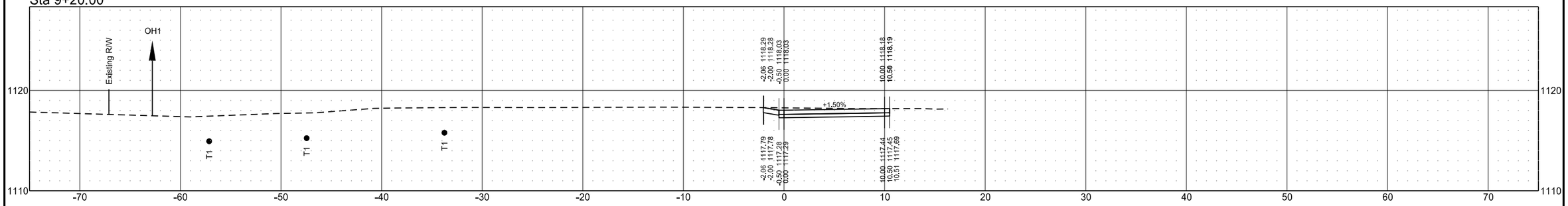
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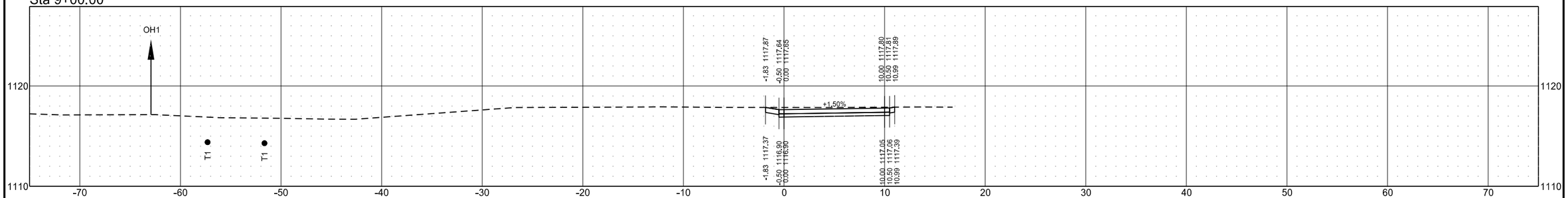
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	18

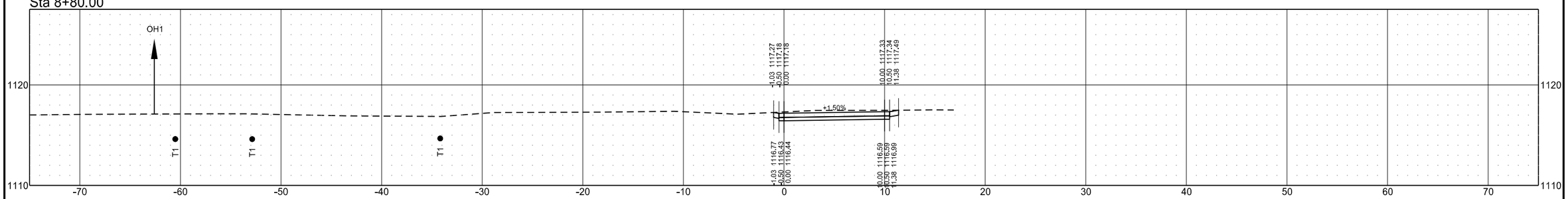
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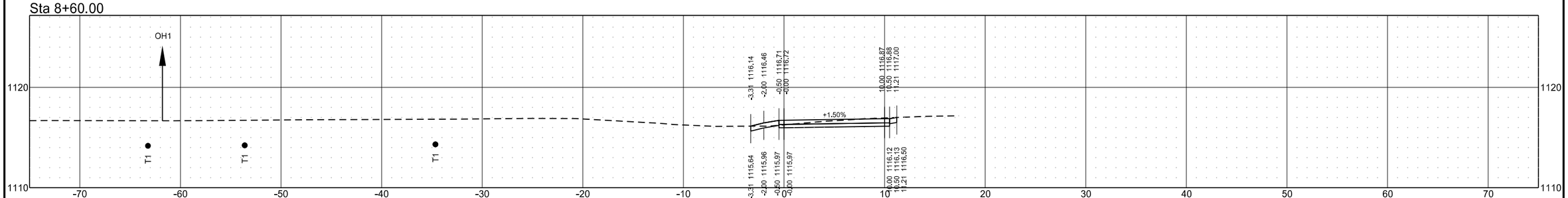
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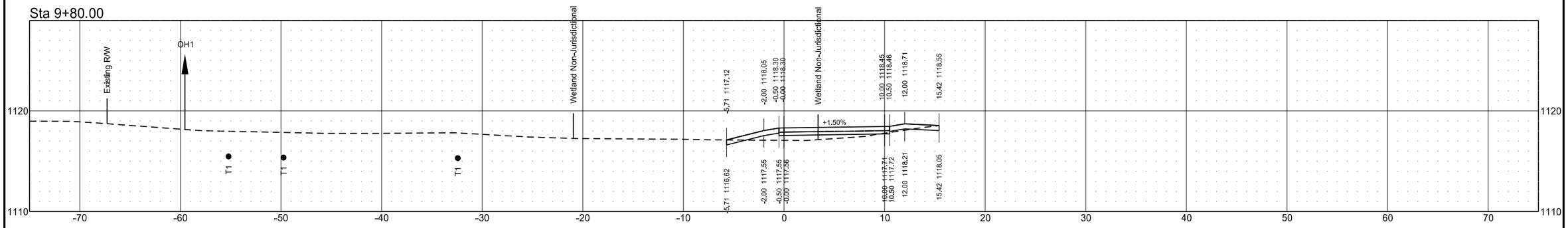
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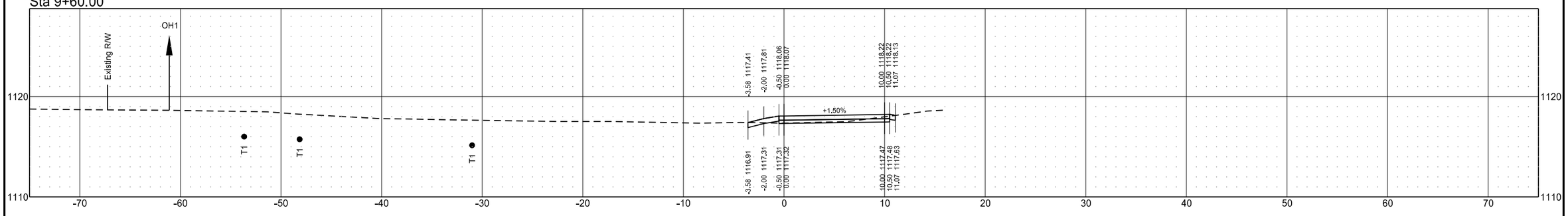
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

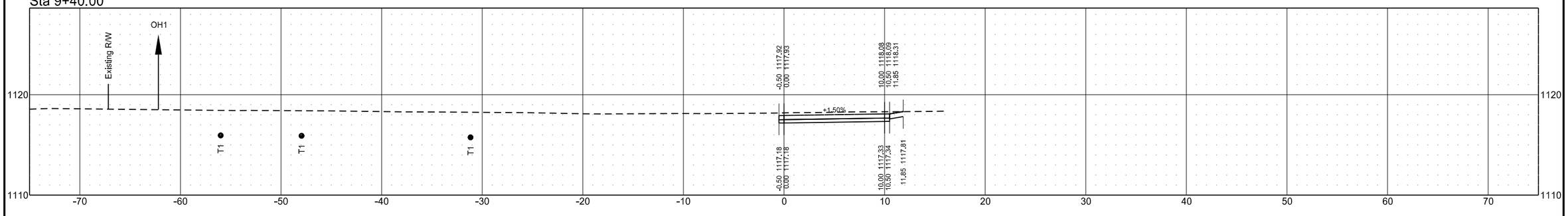
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Sta 9+60.00



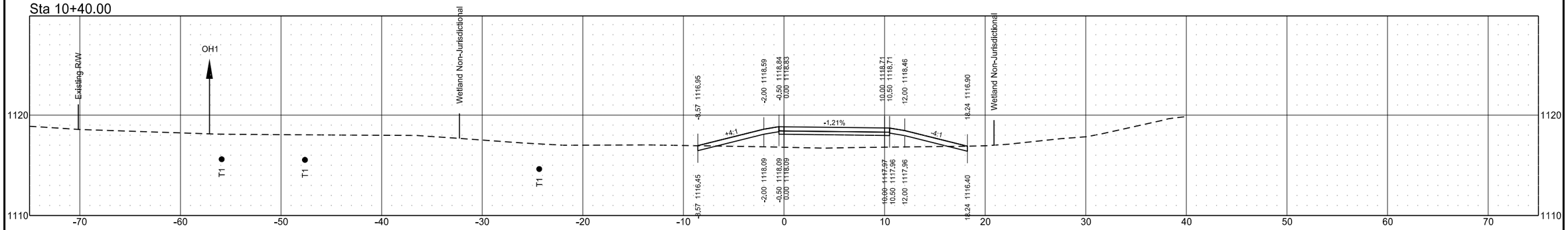
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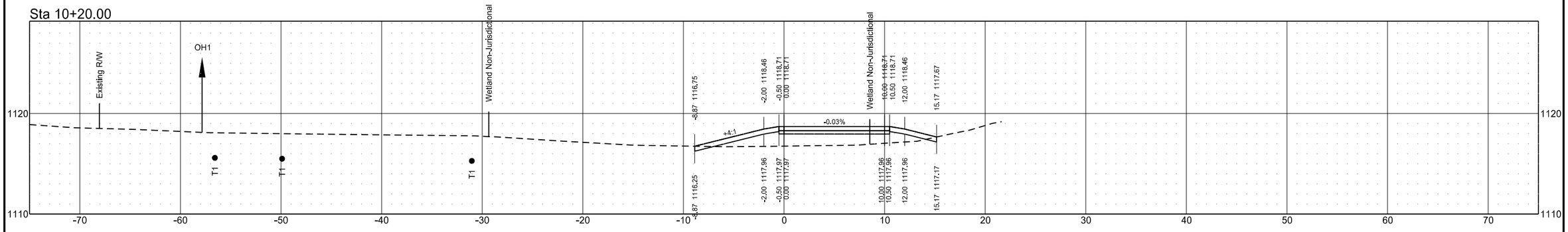
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	20

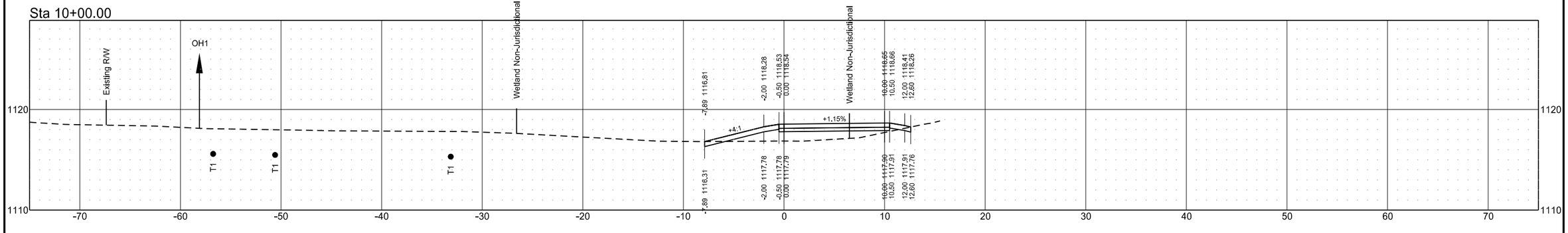
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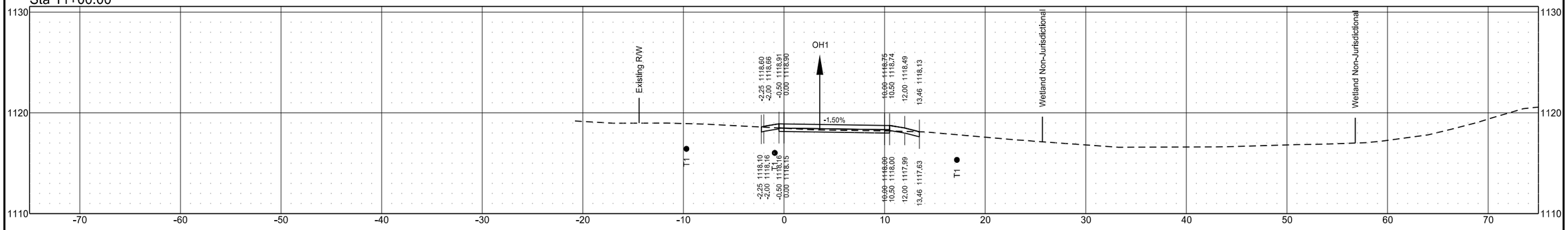
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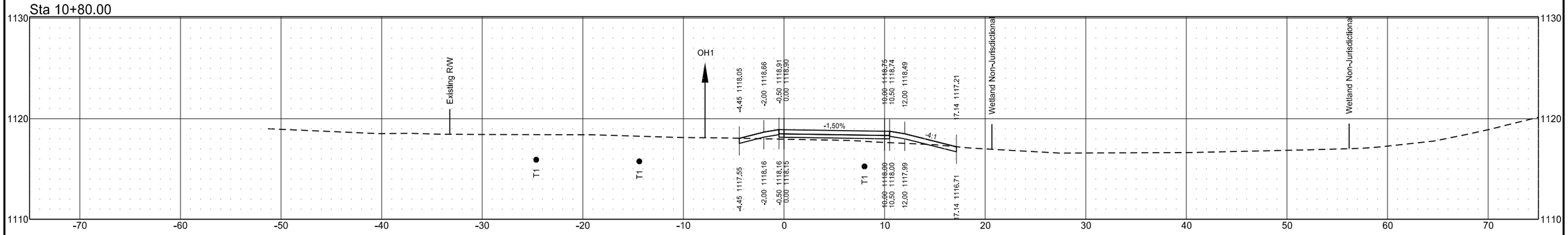
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	21

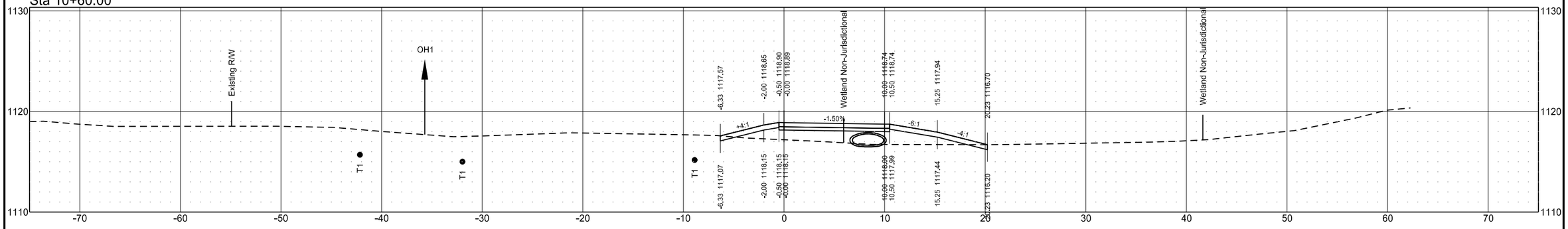
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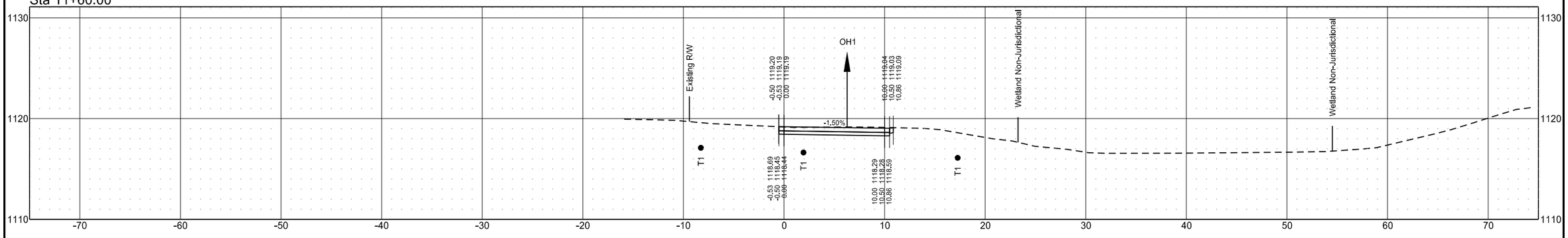
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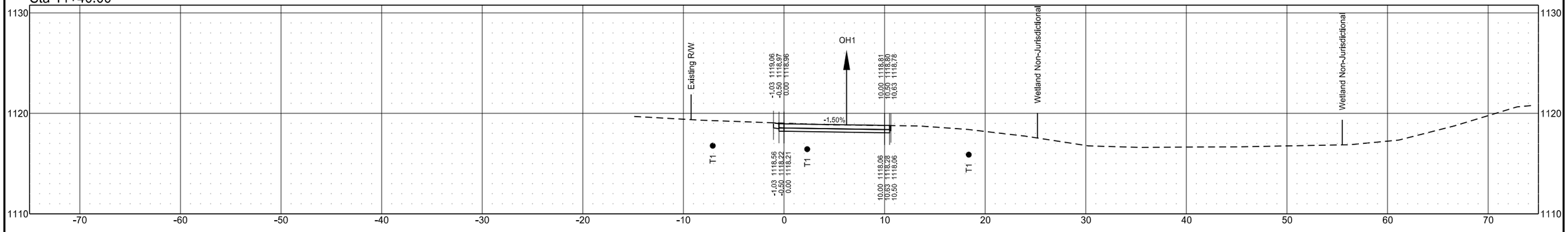
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	22

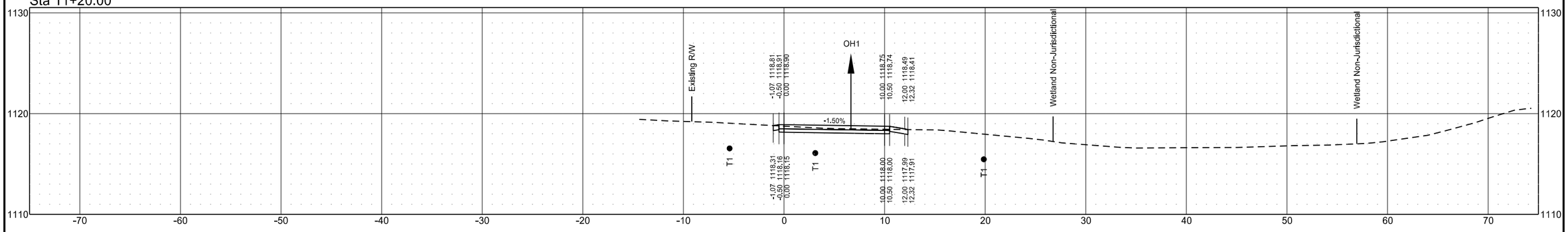
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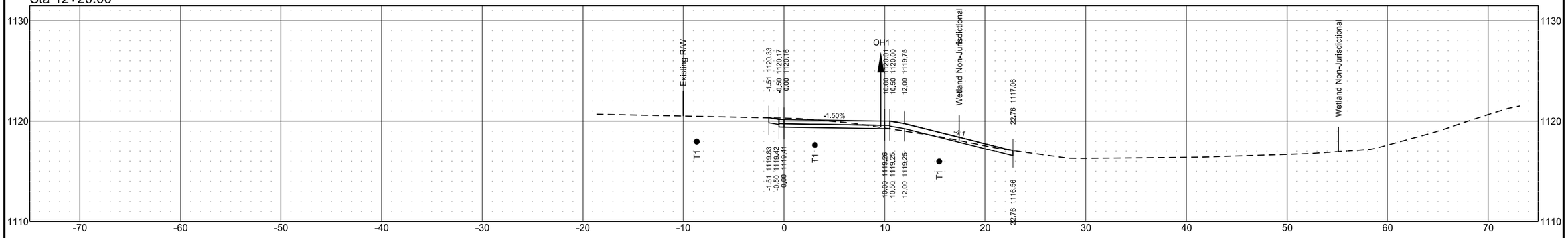
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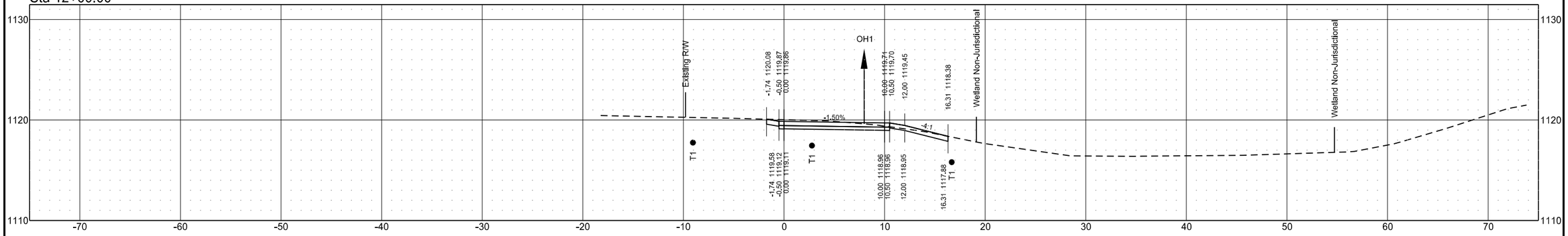
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	23

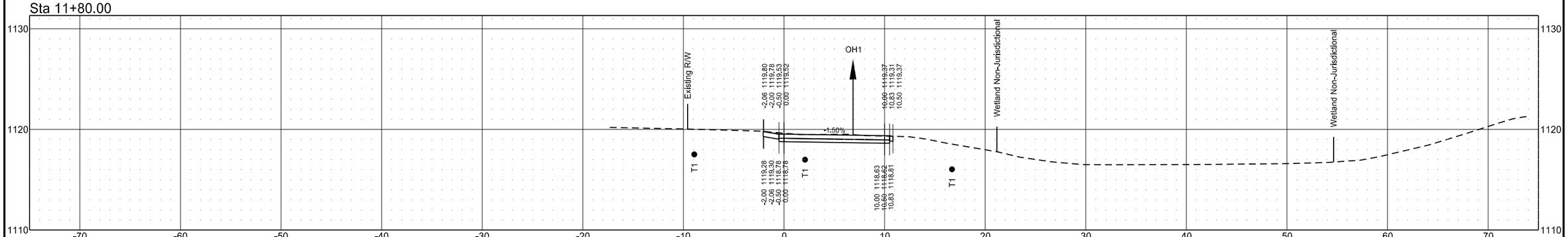
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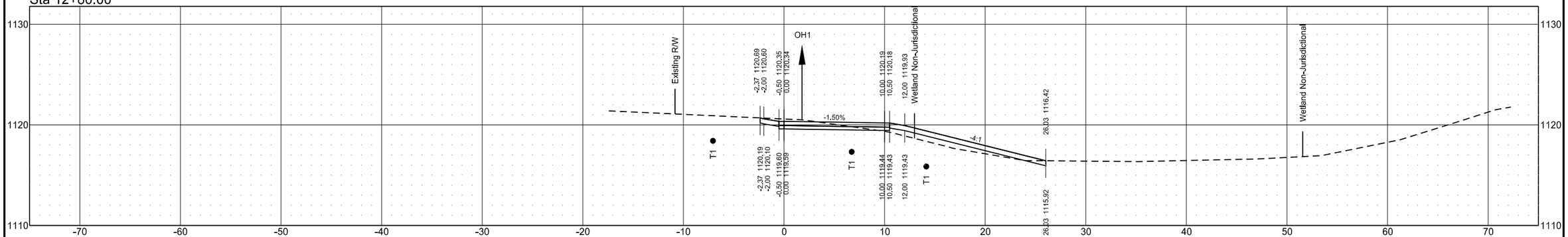
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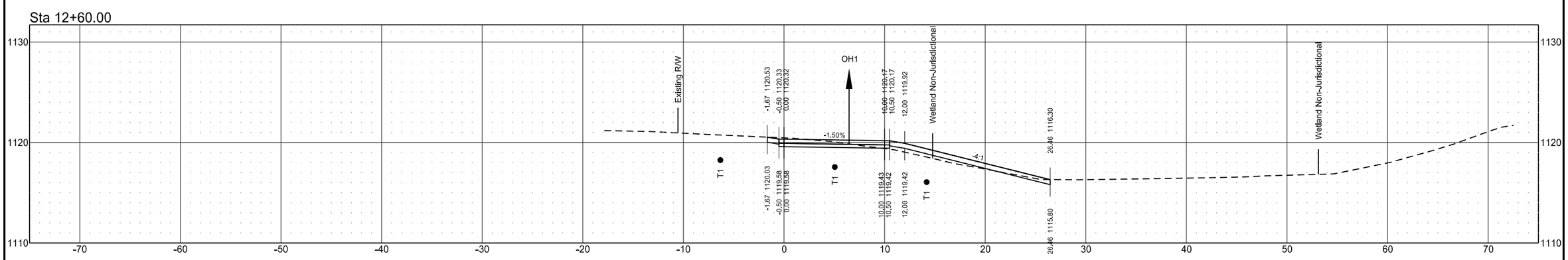
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	24

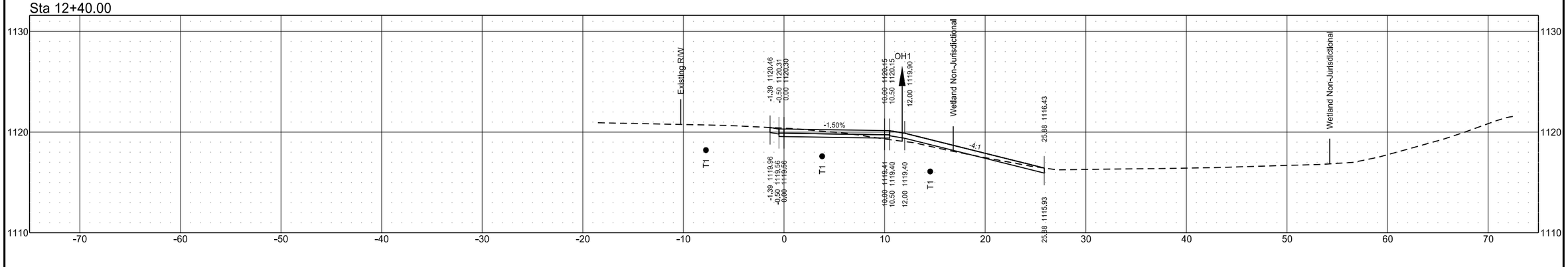
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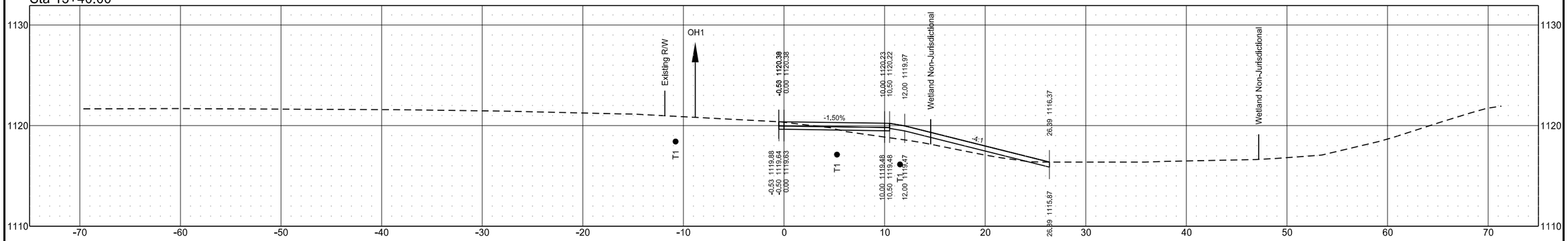
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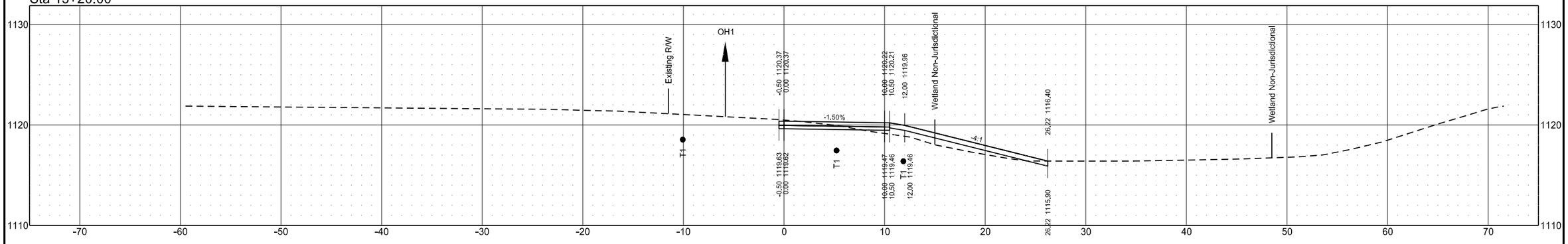
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	25

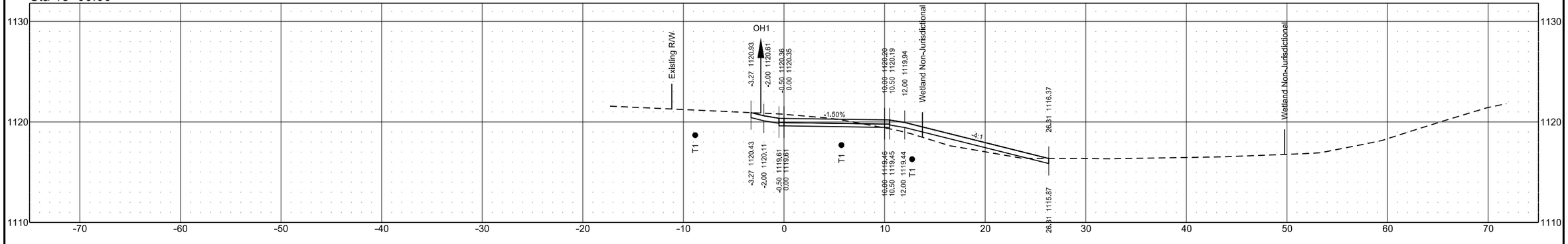
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Sta 13+20.00



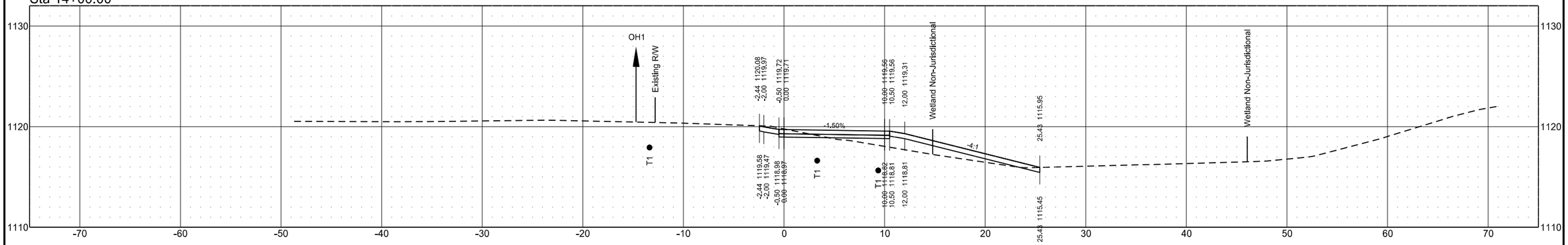
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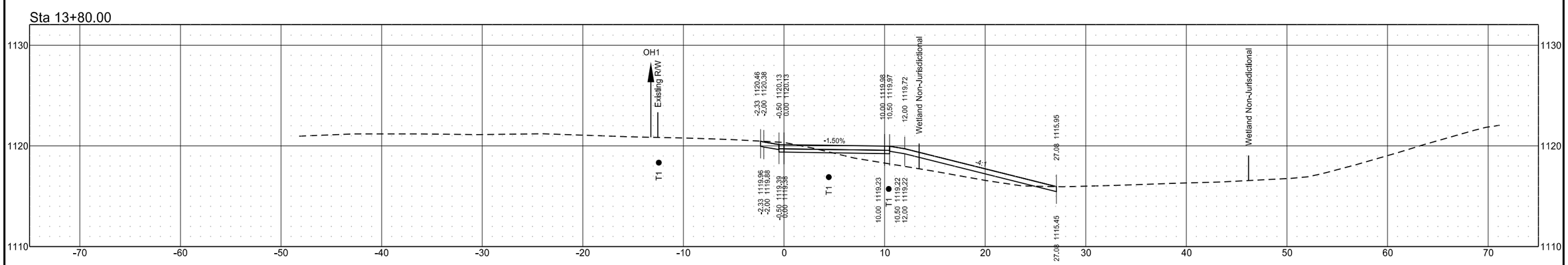
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	26

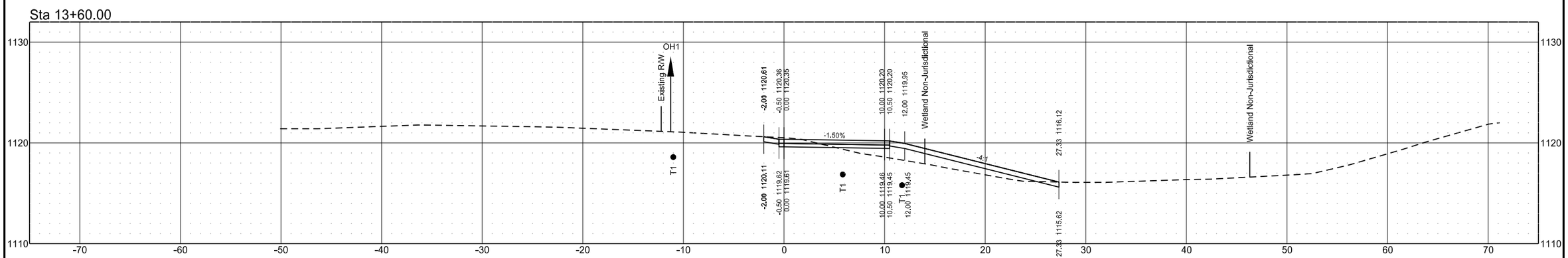
Sta 14+00.00



Sta 13+80.00



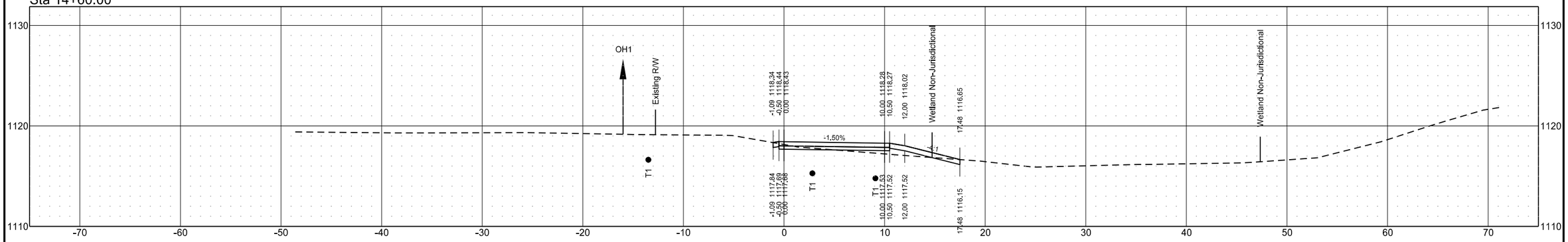
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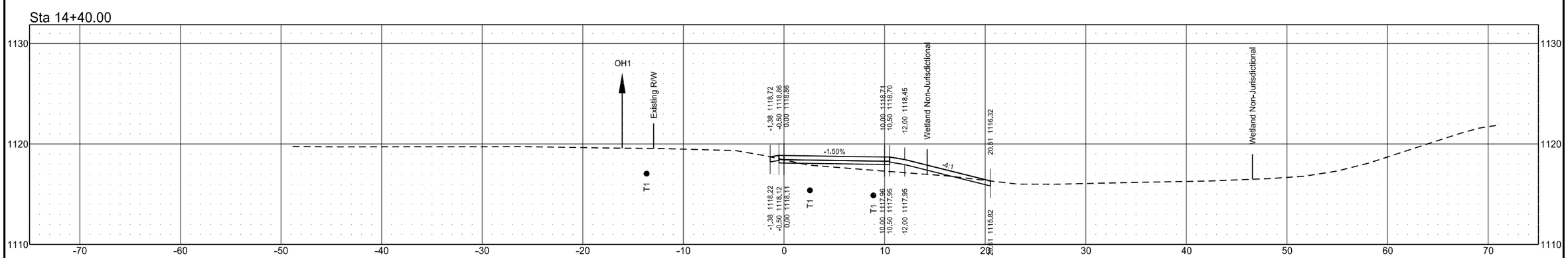
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	27

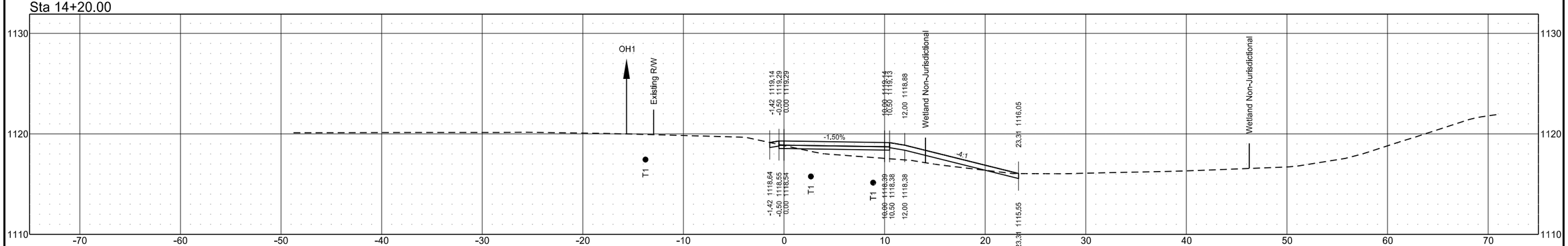
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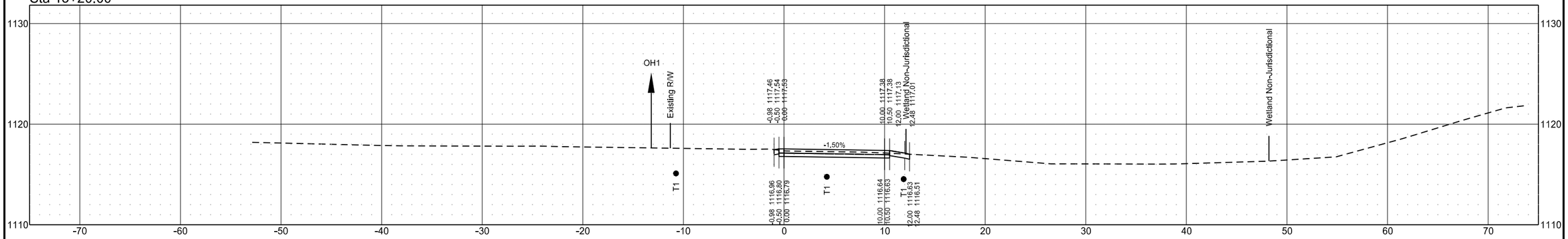
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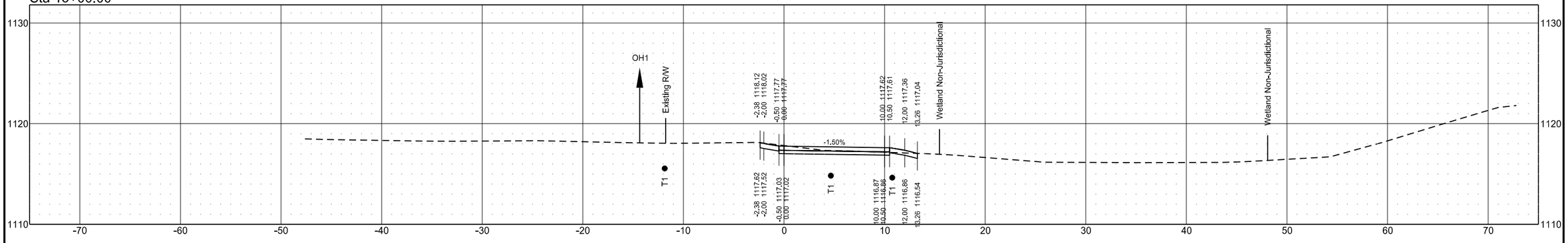
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	28

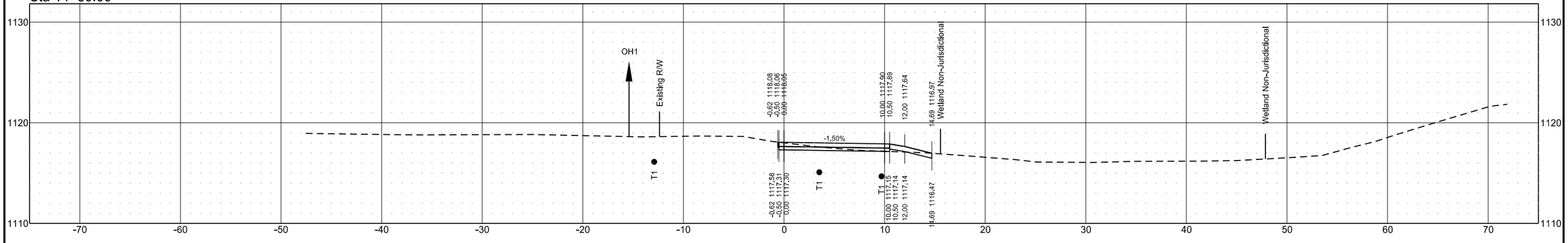
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Sta 15+00.00



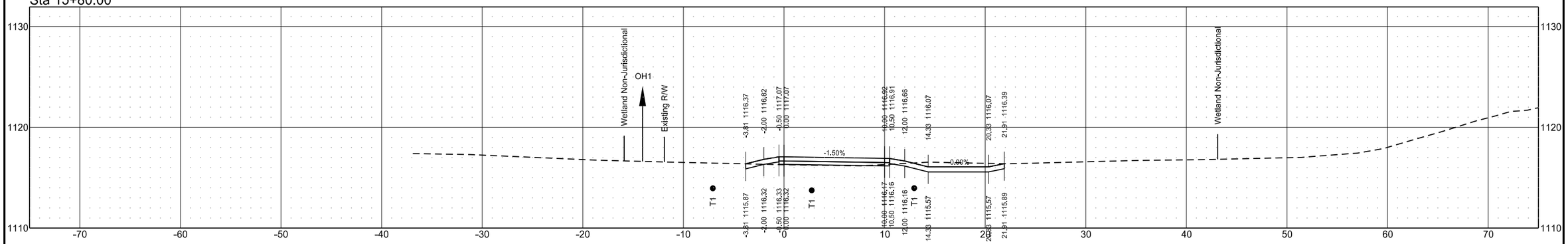
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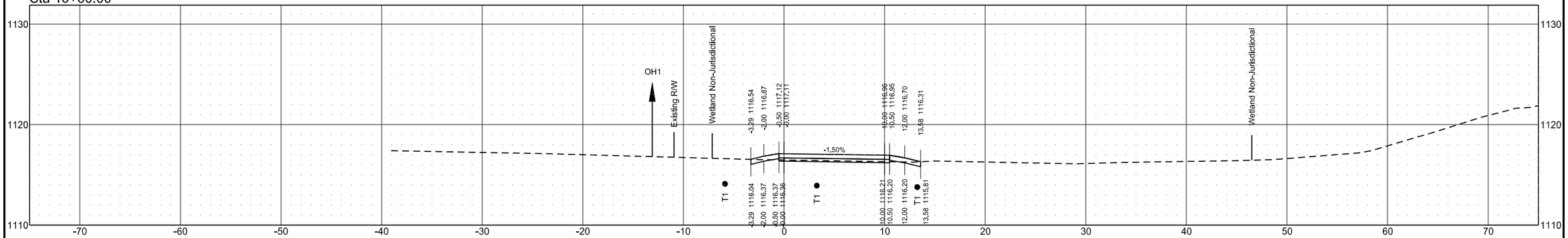
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

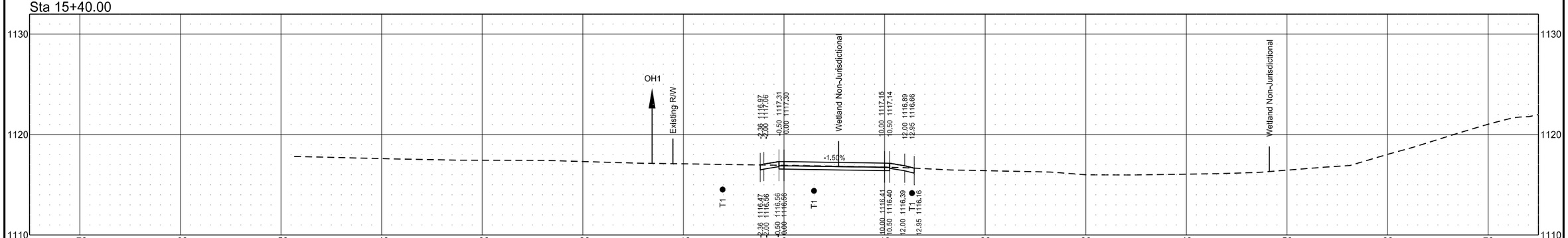
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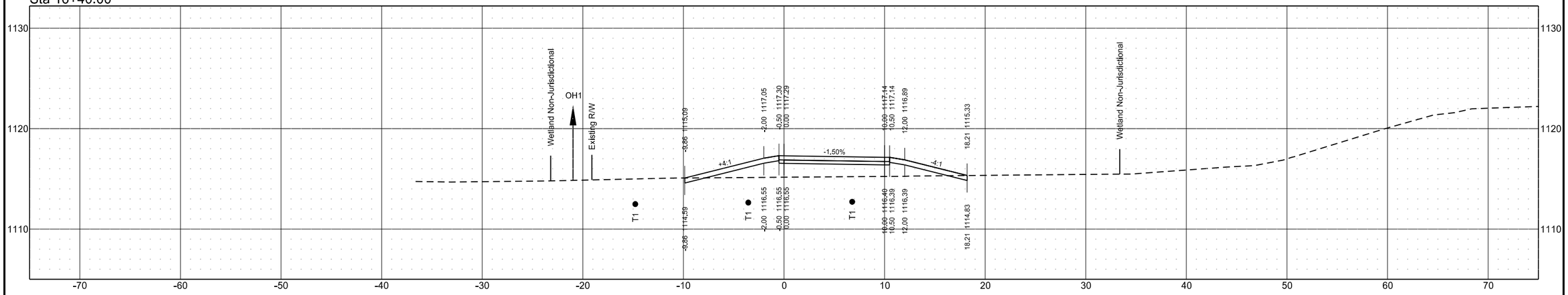
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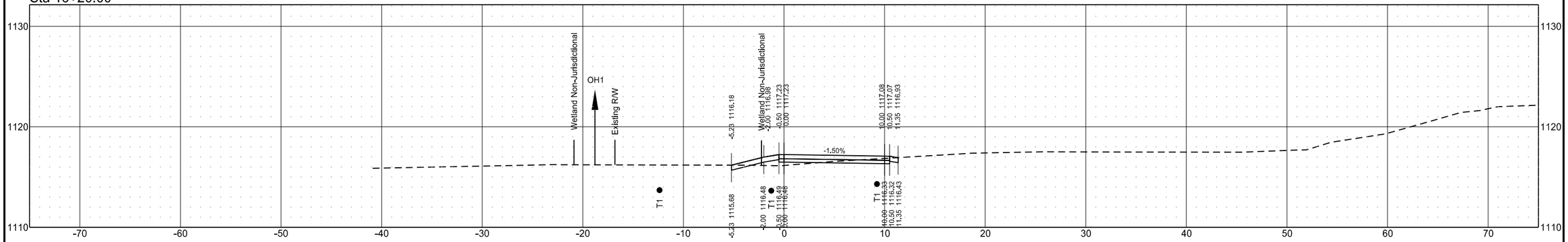
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

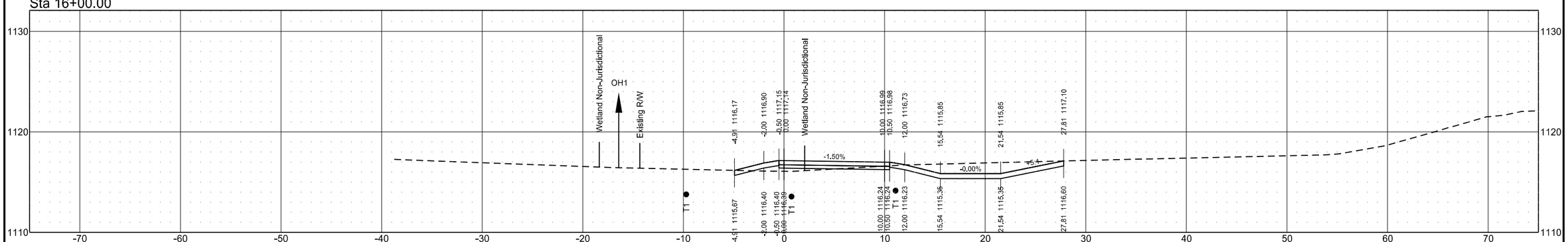
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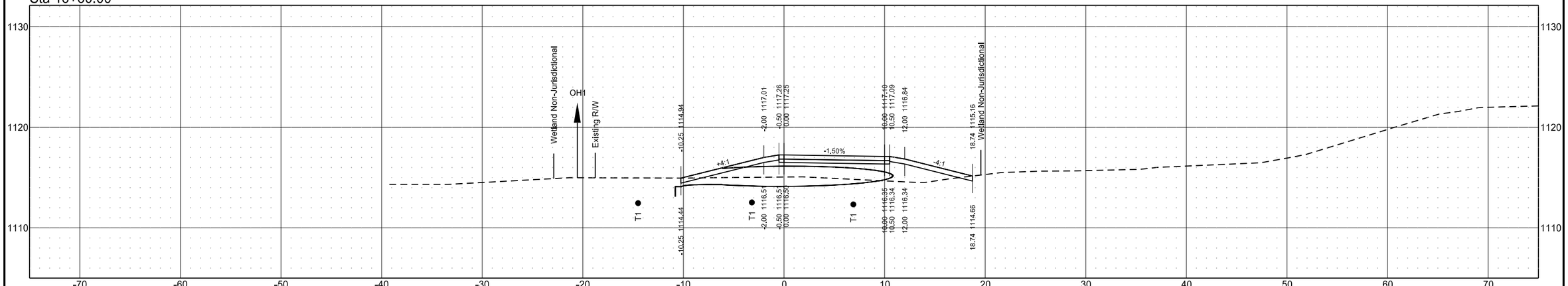
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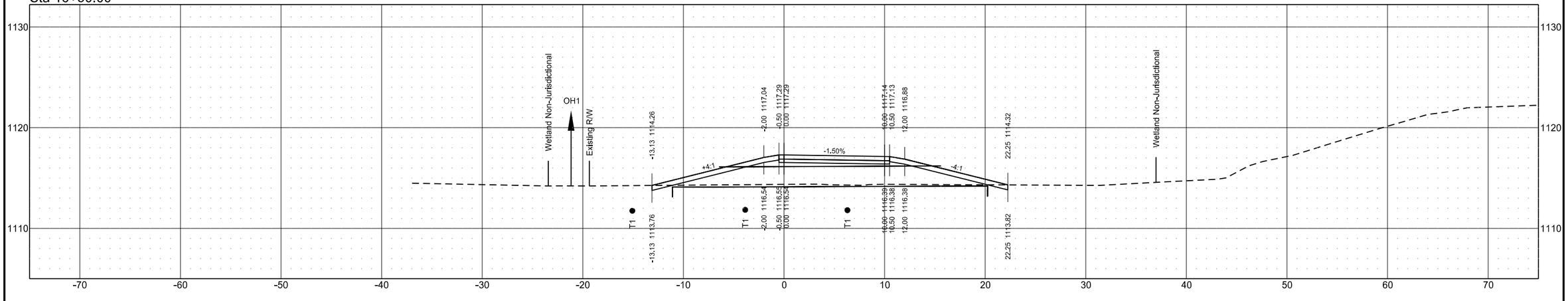
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	31

Sta 16+60.00



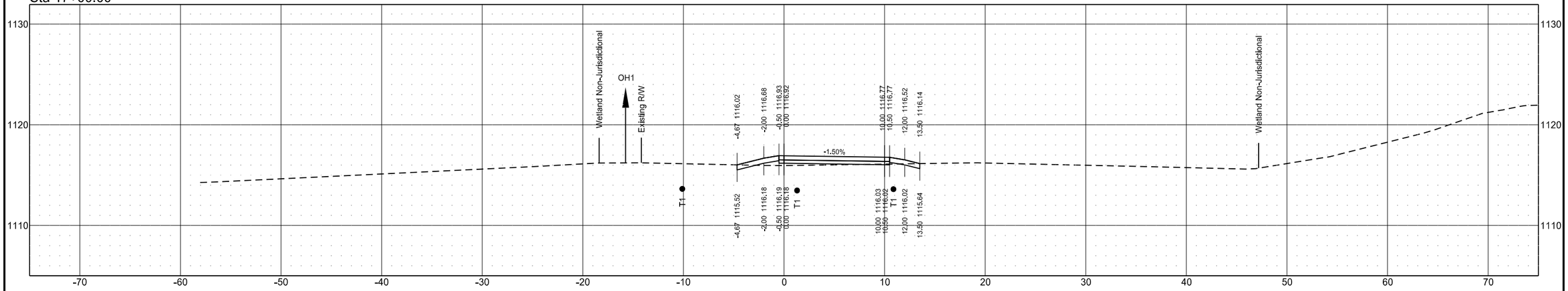
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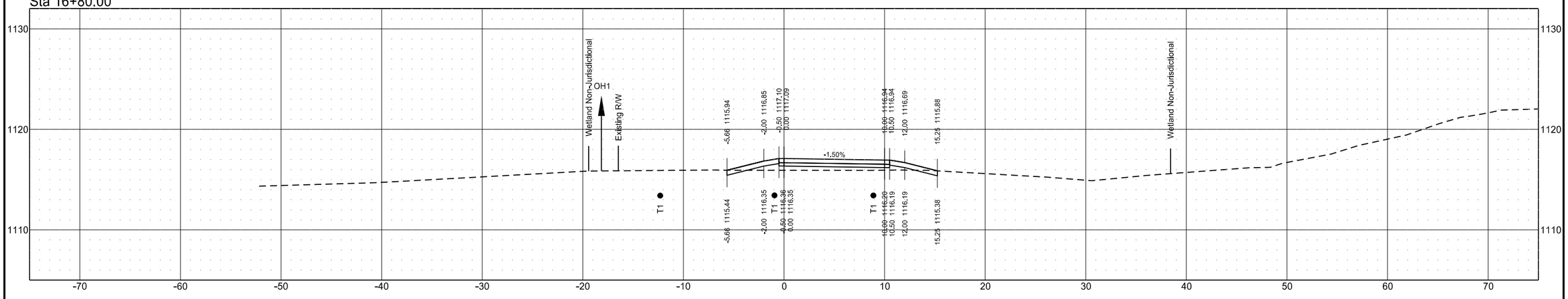
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

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

Sta 17+00.00



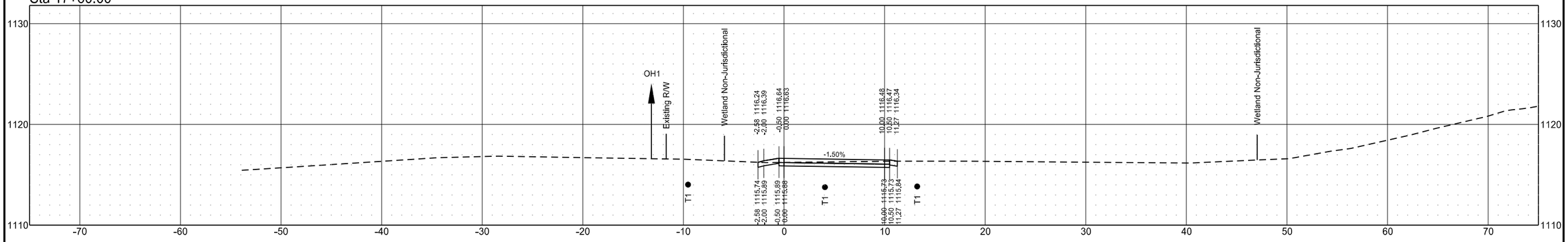
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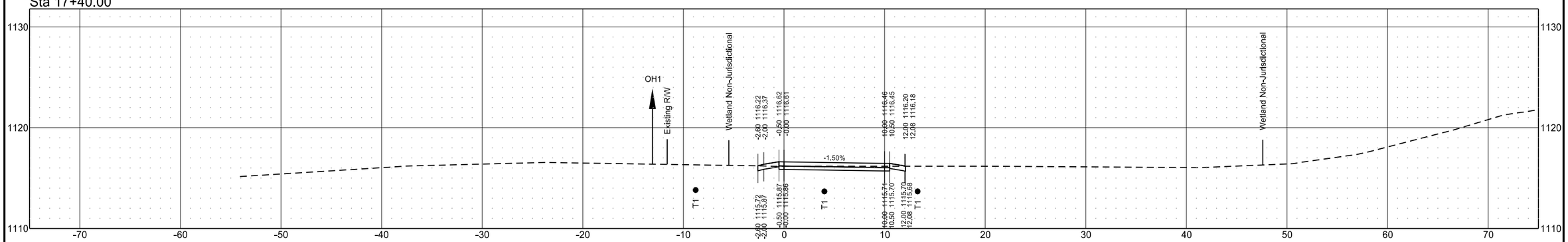
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	33

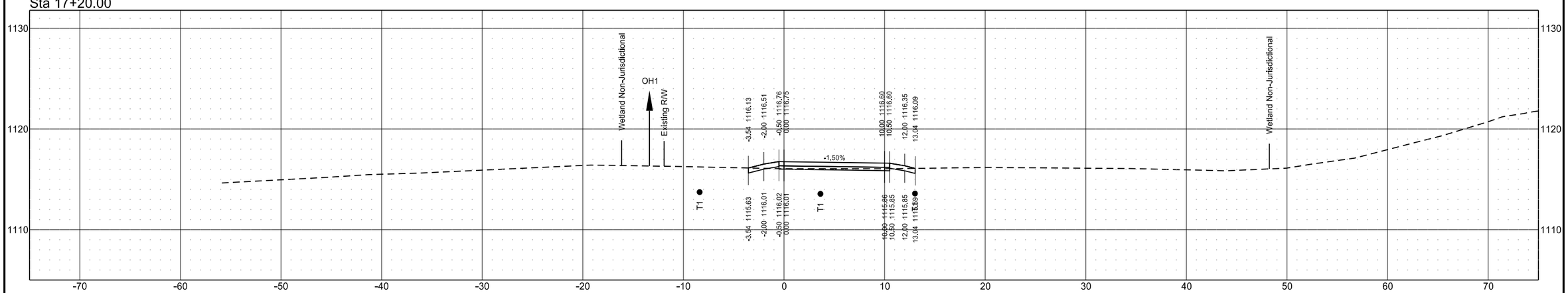
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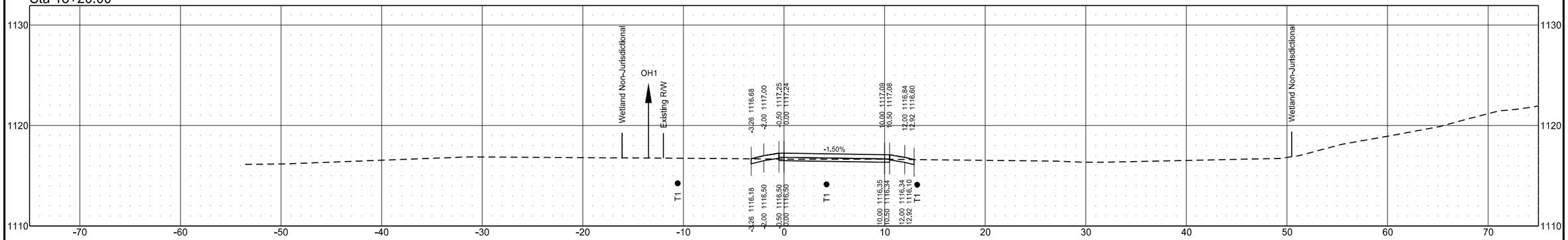
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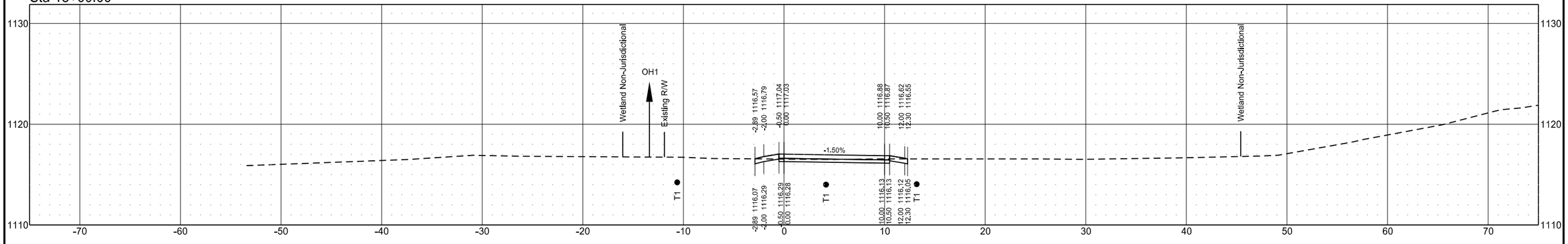
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	34

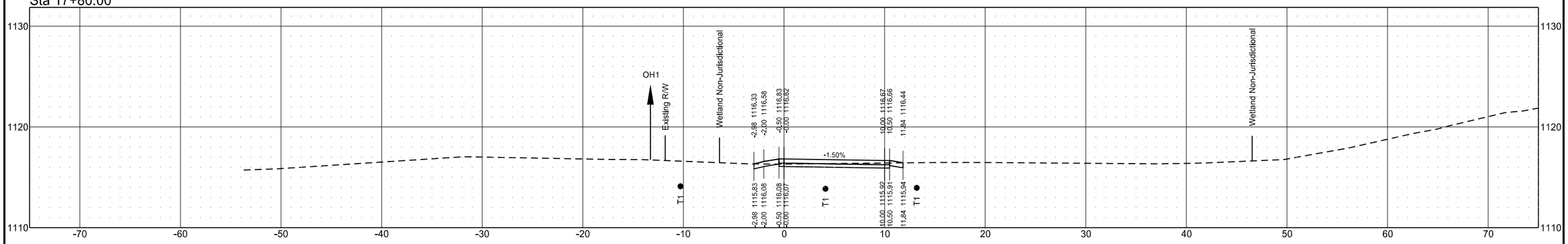
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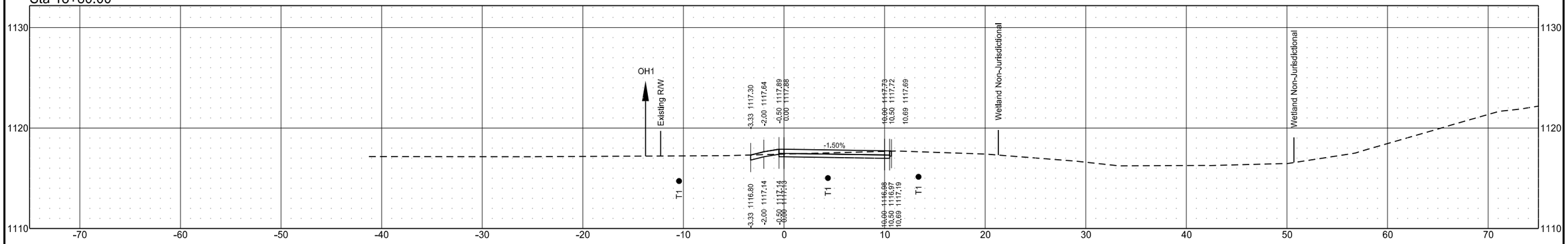
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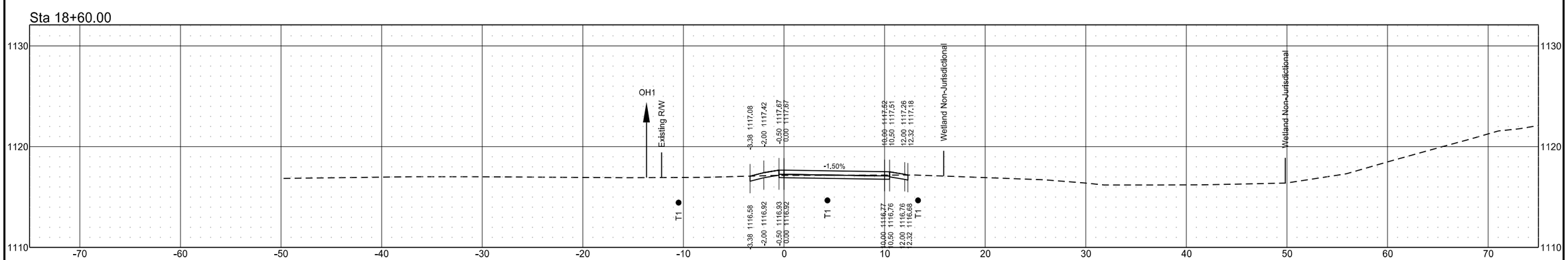
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	35

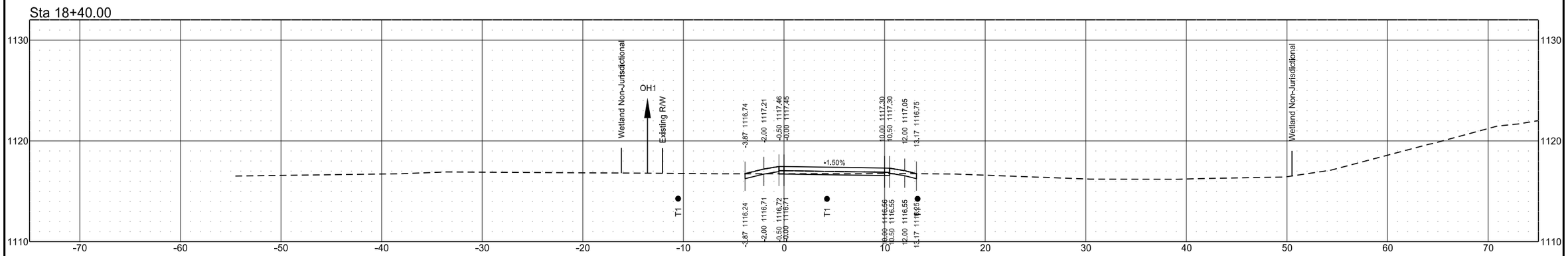
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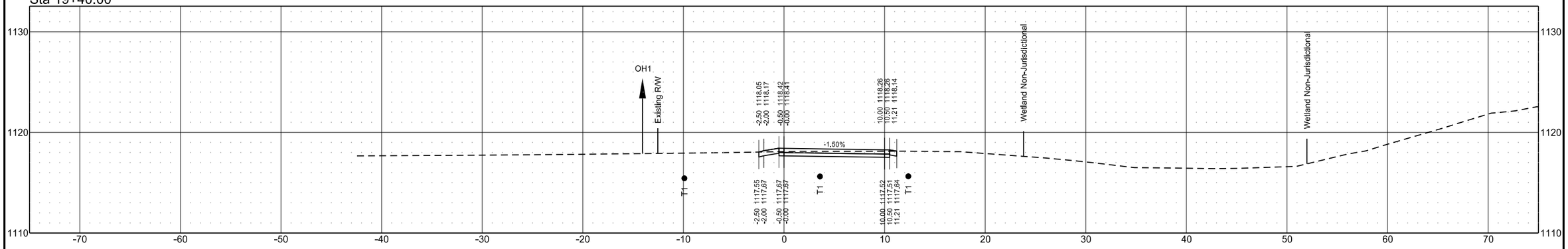
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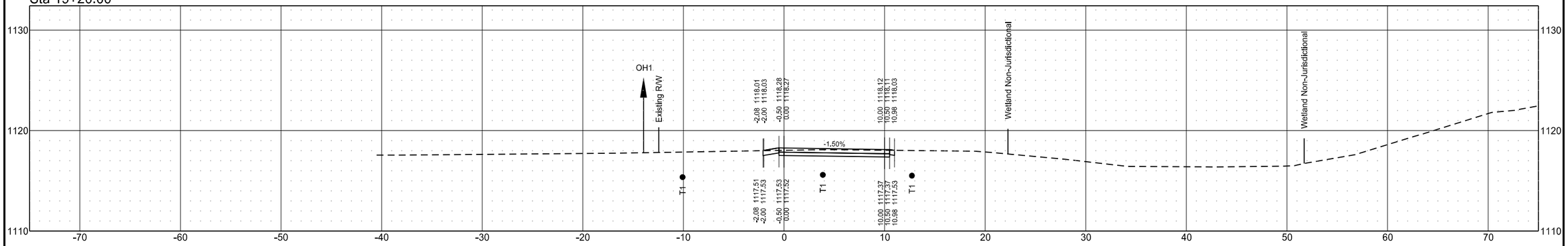
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	36

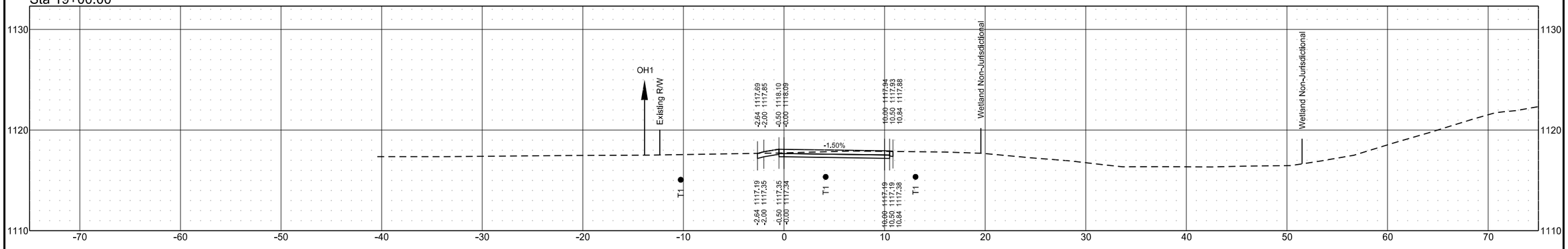
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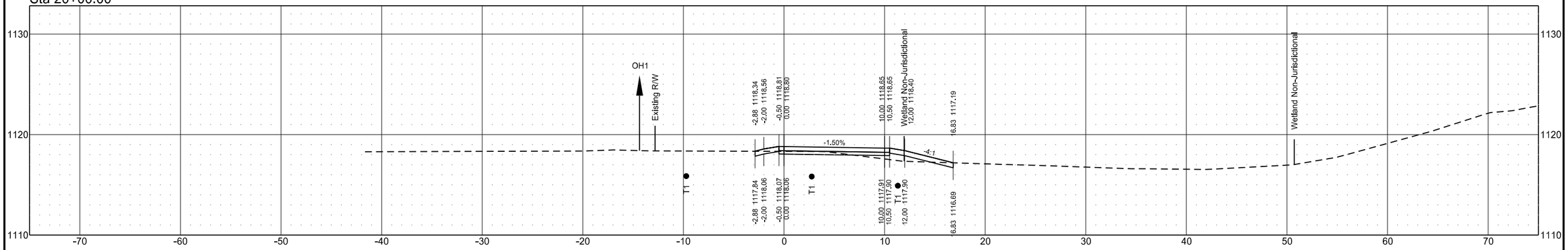
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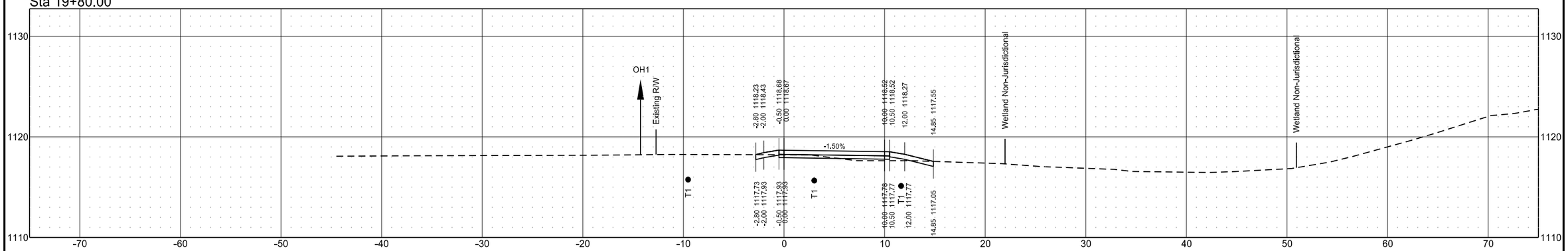
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	37

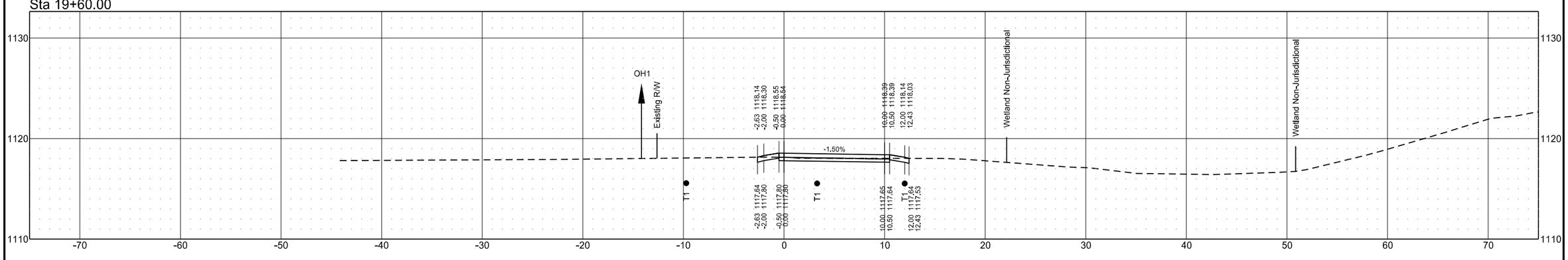
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Sta 19+80.00



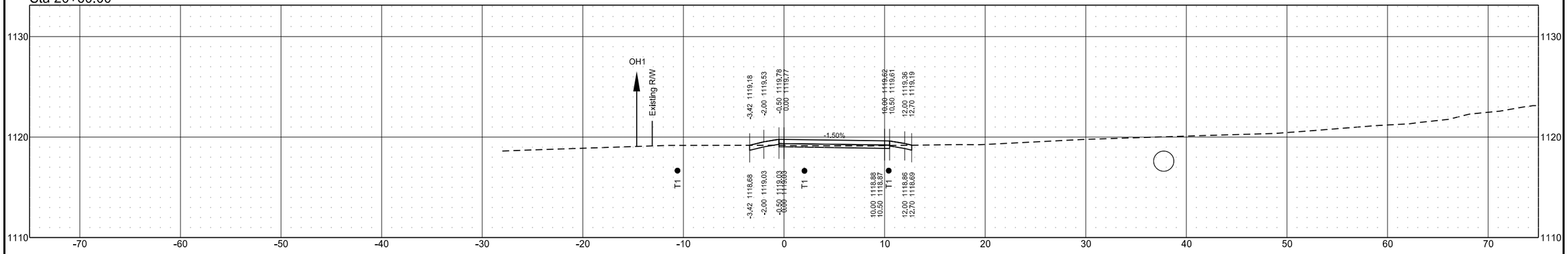
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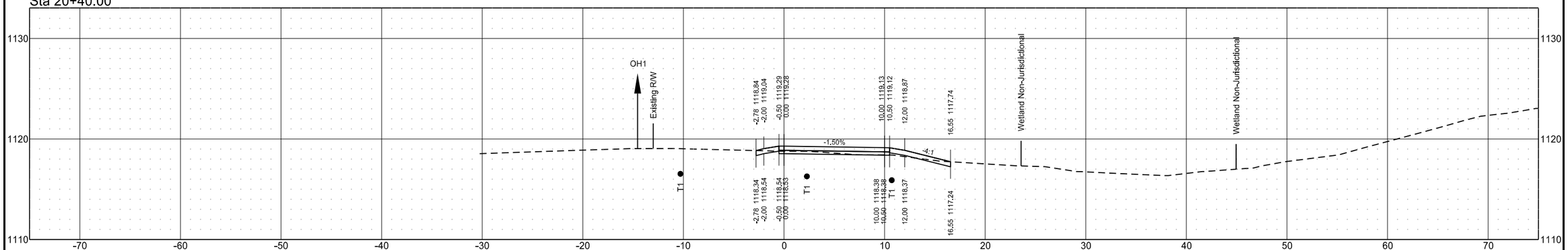
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	38

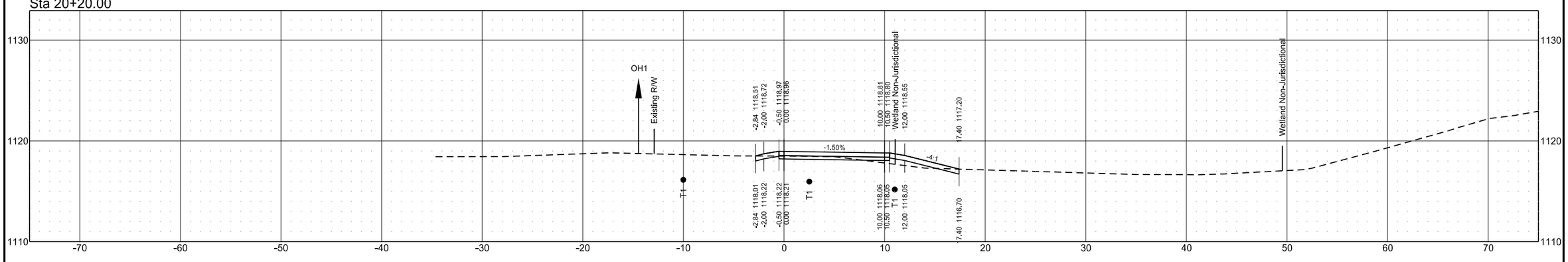
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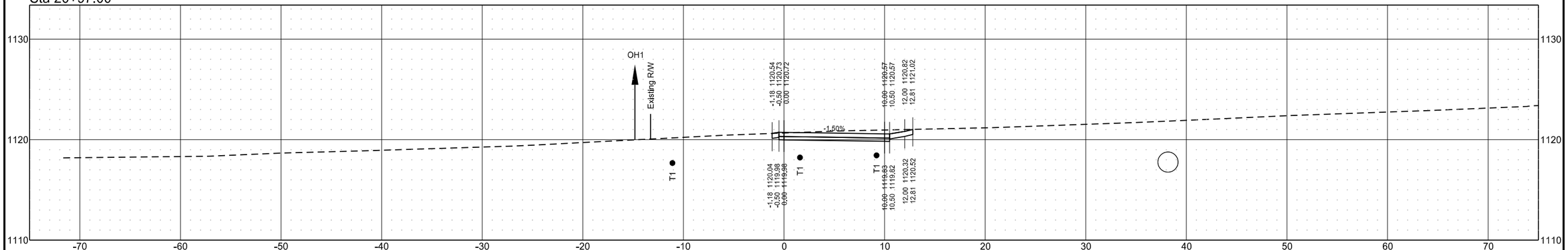
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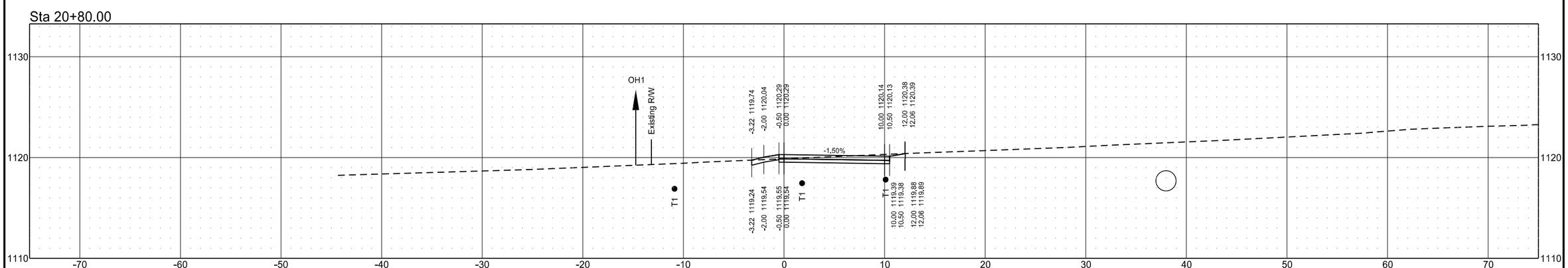
Cross Sections
ND11 From 3rd ST SE to Dollar General Store
Lidgerwood, North Dakota

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NDS-SS-8-011(053)153	200	39

Sta 20+97.00



Sta 20+80.00



5/21/2026 4:12:10 PM Tim.Pearson X:\2020\W\00\W20-00-104_Lidgerwood_SUP\CADD\080_Sheets\Section 200\200XS_001_plans.dgn