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| DESIGN DATA (RP 7.42 to RP 36.84) | | | | |
|---|---|---|---|---|
| Traffic | Average Daily | | | |
| Current 2018 | Pass: 905 | Trucks: 555 | Total: 1460 | |
| Forecast 2038 | Pass: 1225 | Trucks: 830 | Total: 2055 | |
| Clear Zone Distance: 32' | | Design Speed: 65 mph | | |
| Minimum Sight Dist. for Stopping: 645' | | Bridges: N/A | | |
| Sight Dist. for No Passing Zone: 1100' | | | | |
| Pavement Design Life 20 (years) | | | | |
| Design Accumulated One-way flexible ESALs: 3,354,955 | | | | |

# JOB #
# NORTH DAKOTA
# DEPARTMENT OF TRANSPORTATION

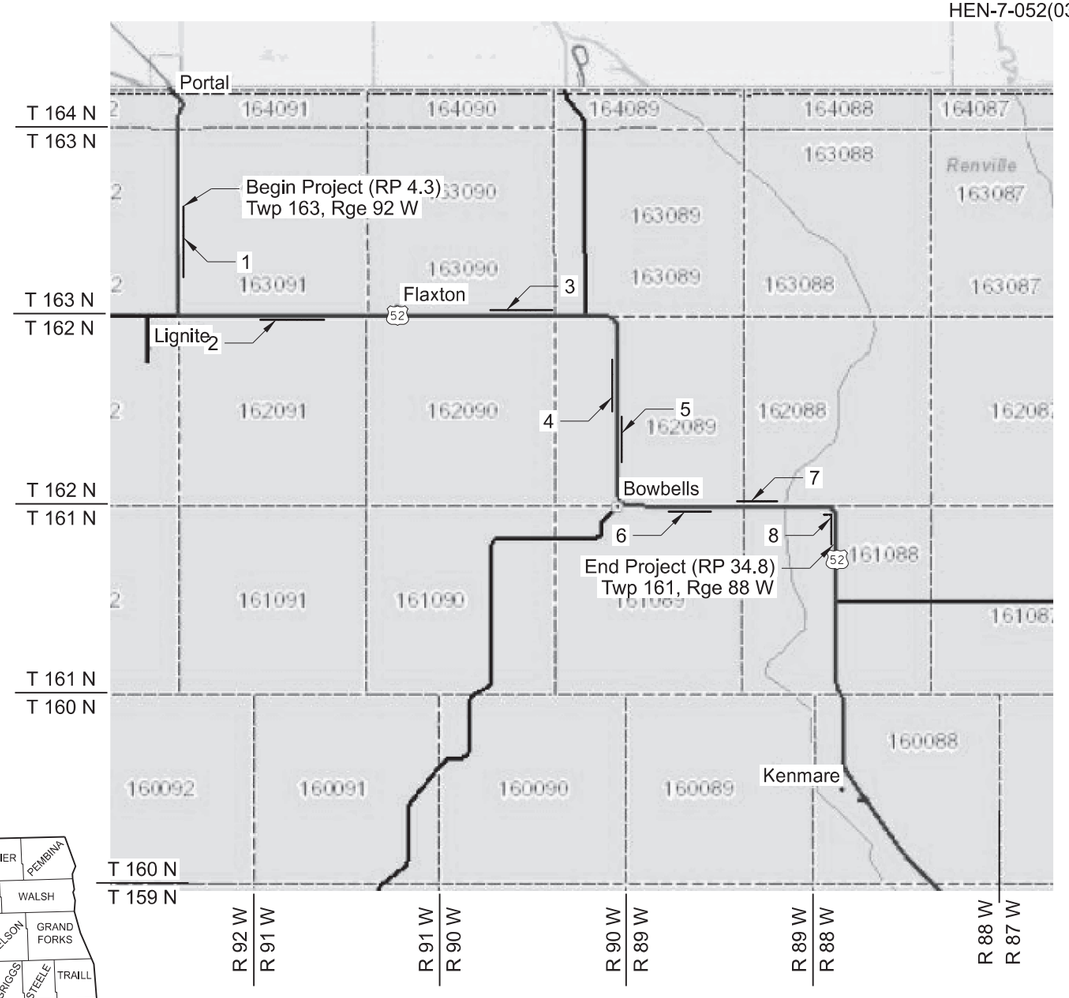
## HEN-7-052(034)000

Burke, Ward and Renville County
Passing Lane Additions on US Highway 52
Twp 163, Rge 91, Sec 19 and Twp 163, Rge 92, Sec 24 to Twp 161. Rge 88, Secs 21 and 22
Embankment, Box Culvert Extensions, Pipe Extensions, Aggregate, HMA, Signing & Striping

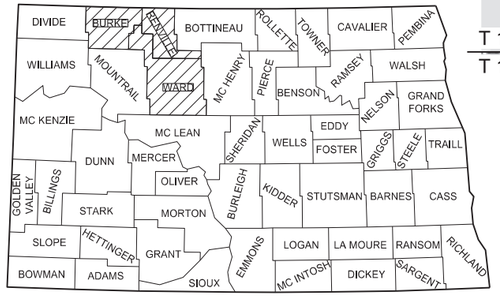
| STATE | PROJECT NO. | PCN | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| ND | HEN-7-052(034)000 | 22484 | 1 | 1 |

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

| PROJECT NUMBER \ DESCRIPTION | NET MILES | GROSS MILES |
|---|---|---|
| HEN-7-052(034)000 | 15.9 | 30.5 |




| Passing Lane | Direction | RP | Sta. |
|---|---|---|---|
| 1 | WB | 4.3 to 6.5 | 226+80 to 347+00 |
| 2 | EB | 9.3 to 11.6 | 493+40 to 614+60 |
| 3 | WB | 16.9 to 19.2 | 889+80 to 1011+00 |
| 4 | EB | 22.3 to 24.4 | 1175+00 to 1289+30 |
| 5 | WB | 24.0 to 26.1 | 1265+06 to 1377+50 |
| 6 | EB | 28.2 to 29.9 | 1490+00 to 1577+45 |
| 7 | WB | 30.1 to 31.8 | 1590+24 to 1678+94 |
| 8 | EB | 33.4 to 34.8 | 1764+94 to 1836+44 |




STATE COUNTY MAP

| DESIGNER |
|---|
| Garrett Hartl |
| DESIGNER |
| Brianne Kappes |
| DESIGNER |
| Cavin Patch |

ND DEPARTMENT OF TRANSPORTATION
OFFICE OF PROJECT DEVELOPMENT
Kirk Hoff
Kirk Hoff 10/17/25

NDDOT DESIGN DIVISION

CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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| | ND | HEN-7-052(034)000 | 2 | 1 |

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## PLAN SECTIONS


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| 6 | 5 | Environmental Notes |
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| 20 | 1 - 9 | General Details |
| 30 | 1 - 7 | Typical Sections |
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| 76 | 1 - 26 | Temporary Erosion Control |
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| D-101-30, 31, 32, 33 | Symbols |
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| D-260-1 | Erosion And Siltation Controls - Silt Fence |
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| Passing Lane | Direction | RP | Sta. |
|---|---|---|---|
| 1 | WB | 4.3 to 6.5 | 226+80 to 347+00 |
| 2 | EB | 9.3 to 11.6 | 493+40 to 614+60 |
| 3 | WB | 16.9 to 19.2 | 889+80 to 1011+00 |
| 4 | EB | 22.3 to 24.4 | 1175+00 to 1289+30 |
| 5 | WB | 24.0 to 26.1 | 1265+06 to 1377+50 |

Portal

Begin Project: HEN-7-052(034)000
RP: 4.3
Sta 226+80

226+80

Location 1

347+00

Location 2

Location 3

Box Culvert Extension
Structure #52-018.155

Box Culvert Extension
Structure Str. #52-023.396

Location 4

Location 5

Flaxton

Lignite

Bowbells

T164N
T163N

T163N
T162N

T162N
T161N

R92W
R91W

R91W
R90W

R90W
R89W

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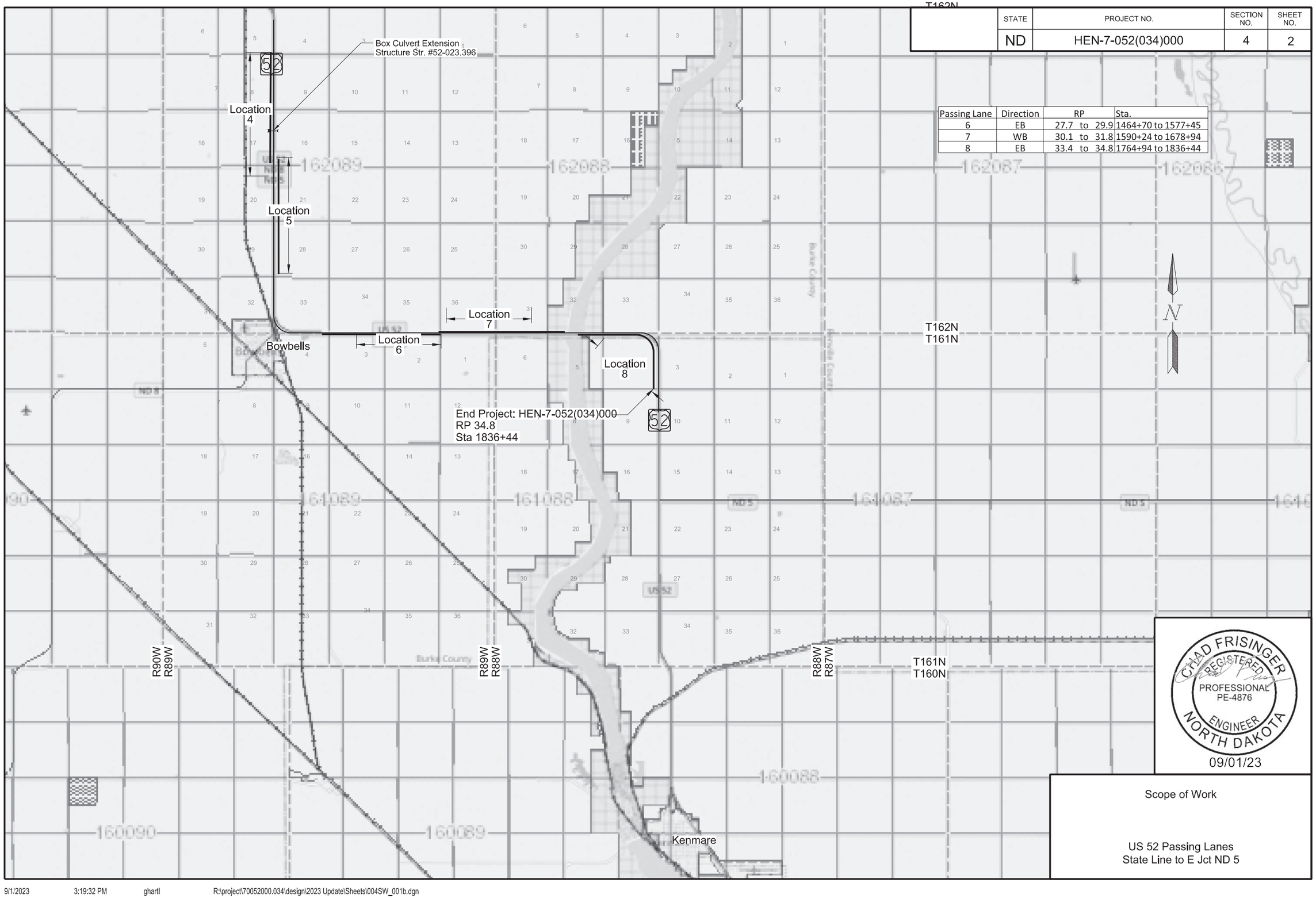
Scope of Work

US 52 Passing Lanes
State Line to E Jct ND 5

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| Passing Lane | Direction | RP | Sta. |
|---|---|---|---|
| 6 | EB | 27.7 to 29.9 | 1464+70 to 1577+45 |
| 7 | WB | 30.1 to 31.8 | 1590+24 to 1678+94 |
| 8 | EB | 33.4 to 34.8 | 1764+94 to 1836+44 |




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Scope of Work

US 52 Passing Lanes
State Line to E Jct ND 5

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# NOTES

107-P01 MAINTAINING TRAFFIC – UNEVEN SHOULDER: If a shoulder and the adjacent lane are uneven due to milling or paving operations, the requirements of Section 704.04 O, "Traffic Control for Uneven Pavement" apply. If the uneven shoulder and adjacent lane are due to other circumstance, the contents of this note apply. If, at the end of the work-day, drop-offs greater than 2 inches and less than 18 inches or slopes steeper than 4:1 exist between the edge of a traffic lane and the outside edge of the proposed roadway, perform one of the following actions:

- Construct a traversable wedge in the area of the drop-off or steep slope; or
- Close the lane adjacent to the drop-off or steep slope and provide 24-hour flagging or pilot car operations.

When constructing a wedge, construct a wedge composed of aggregate or earthen materials with a 4:1 or flatter slope along the entire length of the area. Compact materials using Type C compaction, as specified in 203.04 G.4, "Compaction Control Type C".

Install stackable vertical panels that meet the requirements of Section 704.03 H, "Stackable Vertical Panels", along the edge of the driving lane closest to the wedge.

The Engineer will measure stackable vertical panels as specified in Section 704.05, "Method of Measurement" and will pay for panels as specified in Section 704.06, "Basis of Payment".

The Engineer will not measure material used to construct the wedge. Include the cost of materials, equipment, labor, and incidentals required for this operation in the price bid for “Aggregate Base Course Cl 5” or “Borrow – Excavation”.

If a 4:1 or flatter wedge is not installed, provide 24 hour flagging or pilot car operations and associated traffic control at no additional cost to the Department.

108-P01 BIWEEKLY PLANNING & REPORTING MEETING: A biweekly planning (every other week) and reporting meeting is required. Provide a schedule update and notice of any new types of work or traffic control planned in the next week.

108-P02 US AIR FORCE COORDINATION: US 52 is a mission essential route that is used by the 91st Missile Wing for convoy operations that include a large number of security forces and maintenance vehicles. While infrequent, these convoys will affect construction operations up to and including work stoppage while the convoy passes. Frequent and open two-way communication between the USAF, the contractor, and NDDOT will help to reduce any work disruptions. Keep the 91st Missile Wing of the Minot Air Force Base (MAFB) informed of the project schedule and any lane and road closures occurring on US 52. The contact for the MAFB is Mr. Dan Lewis, Ph. (701) 723-4834.

202-P01 REMOVE AGGREGATE BASE & SURFACING: The existing bituminous pavement thicknesses are averages based on previous construction plans and maintenance data. Actual thicknesses may vary.

203-010 SHRINKAGE: 25% percent additional volume is included for shrinkage in earth embankment.

203-385 AVERAGE HAUL: No average haul has been computed for this project.

203-P01 DITCH BLOCKS: Include the cost for ditch blocks in the contract unit price for “Common Excavation – Type A”.

230-P01 SUBGRADE PREPARATION: Complete “Subgrade Preparation-Type A Shoulders” to a depth of 12 inches at passing lane locations.

260-P01 SILT FENCE: Do not trench silt fence when in an aquatic resource.

704-100 TRAFFIC CONTROL SUPERVISOR: Provide a Traffic Control Supervisor.

704-200 STATE FURNISHED MEDIAN BARRIER: Obtain (32) 2.5’ x 10’ concrete barriers. They can be picked up and returned to the Minot District yard at 1305 Hwy 2 Bypass E in Minot ND 58701. Contact the Minot District office at 701-857-6925 to facilitate the exchanges.

If returning barriers with connection components, coordinate the delivery location for the connecting components with the Engineer. Some 4 inch x 4 inch boards are available at the return location. Provide any additional 4 inch x 4 inch boards necessary to stack barriers. The boards will become property of the Department.

Include all costs associated with median barriers in the contract unit price for “State Furnished Median Barrier”.

704-255 TRAFFIC CONTROL FOR SHOULDER DROP-OFF: If the shoulder and adjacent driving lane are not even at the end of the day, the following criteria will apply:

Place the following sign assembly at the locations listed below.

Sign Assembly: Sign No. W8-9a-48 "Shoulder Drop Off" and supplemental plate Sign No. W20-52P-54 to identify the distance.

Locations:

- In advance of the drop off;
- Spaced at each mile from the advance sign; and
- At major intersections (CMC routes, state and US highways, and Interstate Ramps).

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# NOTES

If the difference in elevation between the shoulder and the driving lane is 2" or greater, construct a slough on the driving lane that is 4:1 or flatter.

If the difference in elevation between the shoulder and driving lane is less than 2", no slough is required.

Sign assemblies will be measured and paid for according to Section 704 "Temporary Traffic Control".

704-500 PORTABLE RUMBLE STRIPS (PRS): Use PRS made of rubber or engineered polymers.

Install PRS as part of the temporary traffic control when the following signs are also part of the required traffic control set up:

- "Be Prepared to Stop" (W3-4); and
- "Flagger" symbol (W20-7)

Install PRS that meet the following criteria:

- Have no adhesives or fasteners required for placement;
- Have a manufacture's speed rating that meets or exceeds the posted speed limit; and
- Each strip in the array must weigh a minimum of 100 pounds.

Use individual PRS constructed in one of the following manners:

- A single piece;
- Interlocking segments; or
- Two pieces hinged at the midpoint.

An installed array of PRS consists of a minimum of 3 individual strips.

Move rumble strips with the flagging operation. Do not place rumble strips on horizontal curves.

The Engineer will count and measure each array as one unit. Include the cost of providing, installing, maintaining, and relocating PRS in the unit price bid for "Portable Rumble Strips".

704-900 ATTENUATION DEVICE TYPE B: Install either of the following attenuation devices:

- The barrel type shown on standard D-704-01; or
- The liquid filled attenuation device described in this note.

Install liquid filled attenuation devices that are 2.5 feet wide.

Before installing devices, provide the Engineer a Certificate of Compliance stating that the devices meet NCHRP Report 350, MASH 2009, or MASH 2016, and a copy of an eligibility letter from FHWA.

Use devices rated for the MPH designation used in the item description.

Install devices according to the manufacturer's specifications.

Liquid filled attenuators may not be deployed in any portion of the months of January, February, and December, nor before the 15th of March.

If liquid filled attenuation devices are deployed after the 15th of March or in any portion of the months of April, October or November, include calcium magnesium acetate or potassium acetate in the liquid filled barrier solution. Mix the anti-icing chemicals with water as recommended by the anti-icing chemical manufacturer to protect the barrier from freezing to a temperature of 0°F. Contact the Engineer and the NDDOT Environmental and Transportation Services Division in the case of a spill leaving the roadway. Dispose of the mixture inside the device as specified in Section 107.17, "Removed Material".

Provide a full replacement set of attenuators available to the project. If the replacement devices are installed, have a set of replacement devices available to the project within 3 calendar days.

Immediately replace any damaged pieces. The Department will reimburse the Contractor for damaged pieces based on the invoice price plus 10 percent. All other costs associated with installing and maintaining replacement pieces will be at no additional cost to the Department.



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# NOTES

704-P01 TRAFFIC CONTROL DEVICES: Provide traffic control consisting of shoulder closures, temporary lane closures and flagging. Quantities for traffic control signs and devices are based on all passing lane work areas (8 locations - 2 miles each) being constructed at the same time and following Standard Drawings:

D-704-15, Layout A
D-704-20, Layout G
D-704-22, Type K and Type L for construction trucks hauling material.
D-704-22, Type O at the intersection of ND 5 and US 52 south of Portal
D-704-24, Type R and Type S, Shoulder closures
D-704-56, For grinding shoulder rumble strips on a two-lane roadway

Reduce speeds in both directions when work is being performed.

Phase 1: Provide shoulder closures for pipe extensions, box culvert extensions and roadway widening or as directed by the Engineer. Follow standard drawing D-704-24 Type U and Work Zone Traffic Control Section (WZTC Section 100) for shoulder closure.

Phase 2: Provide temporary lane closures as shown in the Sec 100 Work Zone Traffic Control layout sheets for pavement removals, delivery of material, milling, paving and operations that require a lane closure or as directed by the Engineer.

Roadway widening areas may remain under shoulder closure according to drawing D-704-24 Type U until the paving, striping and signing are complete.

Place one Type III Barricade at the beginning of the passing lane and one at every private drive approach and road intersection to keep the newly constructed passing lane closed. The Type III Barricade is not required a field approaches.

Precast concrete median barriers have been quantified herein to protect drop-offs and steep slopes associated with the excavation and removal activities required for the extension of the existing box culverts.

706-P01 FIELD OFFICE: Provide a field office which meets the following requirements:

1. Be completely insulated and weather tight.
2. Minimum total area of 450 square feet.
3. Indoor bathroom facilities, sewer and potable water.
4. Have a dependable source of electricity for power and lights with a minimum of 6 electrical outlets spaced throughout the building and light fixtures spaced to uniformly light the entire interior (lumens required 110 foot-candles).
5. Be wired for DSL Broadband internet with wireless Wi-Fi and have the capability to allow for hard wiring the computer. Include the cost of the installation and monthly fees.
6. A heating and cooling system that is capable of maintaining the temperature between 65°F and 78°F year around.
7. A minimum of 3 desks and 3 desk chairs, 3 extra chairs, a drawer file cabinet with at least two drawers, one table minimum of 2.5 ft x 5 ft.
8. Photocopy machine/Printer capable of 11x17 photocopies/prints and toner to last the duration of the project. Engineer will provide paper. Other features to include digital coping & scanning. (Fax capabilities can be included but not necessary).
9. The location of the field office will be on, or as close to the project as possible and approved by the Engineer. Any rental fees will be paid by the Contractor.
10. Make the field office available for occupancy one week before the start of the project and remain through the project completion.
11. Heat, electric, internet service, sewer, and water hookups to be furnished by Contractor, Contractor to pay utility bills.

All requirements of the Field Office are subject to approval by the Engineer. Include the costs for the field office in the bid item "Field Office" and the Schedule for Payment is as follows:

- 25% when set up on site.
- 50% when 30% of the work is complete.
- 75% when 60% of the work is complete.
- 100% when project is complete.

714-P01 PIPE EXTENSIONS: Remove the silted-in material from the pipes before extending them. Assume all pipes require silt cleanout. Reshape the ditch bottom for a distance of 50 LF from the end of the extended pipe. Provide dewatering if necessary, according to site conditions. Include the cost of removing the silt, reshaping the flow line of the ditch, and costs associated with dewatering in the price bid for pipe installation.

714 P02 REMOVE & RELAY PIPE-ALL TYPES & SIZES: Remove and relay the existing separated pipe prior to completing the pipe extension.

1. Remove one length of pipe nearest the pipe end section. For estimating purposes, it is assumed that each single length of pipe to be re-laid is 8 LF. All locations where a single length of pipe is being removed and re-laid will be paid for as 8 LF – regardless of length.
2. Relay the pipe to match the existing pipe profile.
3. Provide pipe bedding and backfill for the re-laid pipe segment in accordance with the centerline pipe extension detail shown in Sec 20.
4. Tie the re-laid pipe to the adjacent existing pipe and to the pipe extension by providing and installing pipe ties.

Include all costs for the labor, equipment and materials to complete this work in the unit price bid for “Remove & Relay Pipe-All Types & Sizes”.

754-P01 OBJECT MARKERS - CULVERTS: Remove existing object markers located at culvert end sections that are impacted by earthwork activities and pipe extensions. Include the cost for removal and disposal in the price bid for “Object Markers – Culverts”.

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# NOTES

754-P02 RESET DELINEATORS: The existing shoulder delineators will be disturbed within the limits of the passing lane project. The delineators consist of a 9’ post with a reflector as shown in the Sec 20 Delineator Detail. Remove and salvage the delineator with a method that does not cause damage to the post or reflector. Stockpile the removed delineators at a location approved by the Engineer. Reset the delineators after the earthwork and topsoil operations are complete. Install the delineators in accordance with the uniform spacing dimensions shown in the Sec 20 Delineator Layout. Repair or replace any damaged delineators caused by Contractor negligence. Include the costs to remove, reset, repair or replace delineators in the price bid for “Reset Delineators”.

762-050 PAVEMENT MARKING: If the Engineer and Contractor agree, plan quantity will be used as the measurement for payment for pavement marking items.

766-P01 MAILBOXES: Notify affected mailbox owners in advance of disturbing the existing mailboxes and supports. Provide written notifications 30 days in advance of disturbance and provide copies of the notifications to the Engineer. Just prior to removing the existing mailbox and support, coordinate verbally with the mailbox owner to discuss resetting the existing mailbox on a new support. Contact the U.S. Postal Service for the mailbox owners’ contact information.



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# 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 THREATENED AND ENDANGERED SPECIES: The project is located near/within suitable habitat for the species listed in the following table.

| SPECIES | HABITAT | PRESENCE |
|---|---|---|
| **Whooping Crane** | Cropland/Wetland Associations | Spring: April 1 - May 15<br>Fall: September 15 - November 15 |
| **Northern Long-Eared Bat** | Forested/Wooded Areas/Bridges/Box Culverts/Caves/Mines | Active Season: April 1 - September 30<br>Inactive Season: October 1 - March 31 |

If any of the above threatened and endangered species are identified within 1 mile of the project, the Contractor will notify the Engineer immediately and cease construction activities in the vicinity until an avoidance area is established. The Engineer will establish an avoidance area that is at least a 0.5 mile and immediately coordinate with the contact USFWS (701-250-4481), FHWA (701-221-9464), and the NDDOT ETS Biologist (701-328-2594). The Contractor will not resume work within the avoidance area until the Engineer has confirmed with the agencies that work may proceed (either the species have left the area, or approved avoidance/minimization measures have been implemented).

EN-2 AVOIDANCE AREAS. The Project Engineer will contact Valerie Barbie or Jeani Borchert, ETS Division, to coordinate any meetings needed to define the limits of the avoidance areas. The avoidance areas are cultural sites (listed below) and are not to be disturbed. The three cultural resource sites are within the limits of the passing lane project but are located outside the existing highway R/W and outside of the limits of construction.

| Site # | Site Type | County | Sec-Twp/Rng |
|---|---|---|---|
| 32BKx838<br>(Passing Lane # 3) | Cultural Material Scatter | Burke | E ½ of Sec. 34<br>T. 163 N.<br>R. 90 W. |
| 32BKx1055<br>(Passing Lane #3) | Porcellanite biface, KRF flakes | Burke | E ½ of Sec. 34<br>T. 163 N.<br>R. 90 W. |
| 32BK271<br>(Passing Lane #6) | St. Joseph Cemetery/<br>East edge of Bowbells | Burke | NW/NW/NE Sec. 4<br>T. 161 N.<br>R. 89 W. |

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 these wetlands to preconstruction contours.

EN-4 WETLAND MITIGATION: Wetland mitigation is required for unavoidable permanent wetland impacts. The wetland mitigation plan is incorporated into the plans for this project. After completion of the mitigation area, the Engineer will complete the Onsite Mitigation Certification Form SFN 61042. Any sedimentation occurring within the mitigation area will be removed.

EN-5 AQUATIC NUISANCE SPECIES (ANS): Equipment that was last used outside of North Dakota or within a Class I infested waterbody (identified on the North Dakota Game and Fish Department (NDGFD) website) requires an inspection by NDGFD. Notify the NDGFD at least 10 business days prior to pumps, watercraft, or any equipment entering a public water to allow the NDGFD sufficient time to inspect any and all such equipment for ANS. Contact the NDGFD ANS Coordinator, Ben Holen by e-mail - bholen@nd.gov for equipment inspections. Supply one of the following to the engineer as proof of compliance prior to work taking place in the water: (1) the NDGFD inspection report, (2) documented NDGFD correspondence (email or signed letter).

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PE-4876
ENGINEER
10/4/22
NORTH DAKOTA

# ESTIMATE OF QUANTITIES

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 8 | 1 |

| SPEC | CODE | ITEM DESCRIPTION | UNIT | MAINLINE | TOTAL |
|---|---|---|---|---|---|
| 103 | 0100 | CONTRACT BOND | L SUM | 1 | 1 |
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | TON | 64,750 | 64,750 |
| 202 | 0101 | REMOVAL OF CONCRETE | EA | 2 | 2 |
| 202 | 0169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | EA | 10 | 10 |
| 202 | 0174 | REMOVAL OF PIPE ALL TYPES AND SIZES | LF | 196 | 196 |
| 203 | 0101 | COMMON EXCAVATION-TYPE A | CY | 72,849 | 72,849 |
| 203 | 0109 | TOPSOIL | CY | 83,608 | 83,608 |
| 203 | 0140 | BORROW-EXCAVATION | CY | 70,119 | 70,119 |
| 210 | 0050 | BOX CULVERT EXCAVATION | EA | 2 | 2 |
| 210 | 0210 | FOUNDATION FILL | CY | 35 | 35 |
| 210 | 0405 | FOUNDATION PREPARATION-BOX CULVERT | EA | 2 | 2 |
| 216 | 0100 | WATER | M GAL | 5,761 | 5,761 |
| 230 | 0302 | SUBGRADE PREPARATION-TYPE A-SHOULDERS | STA | 837 | 837 |
| 251 | 0200 | SEEDING CLASS II | ACRE | 106 | 106 |
| 251 | 1000 | WETLAND SEED | ACRE | 12 | 12 |
| 251 | 2000 | TEMPORARY COVER CROP | ACRE | 121 | 121 |
| 253 | 0061 | SOIL STABILIZATION | ACRE | 238 | 238 |
| 255 | 0102 | ECB TYPE 2 | SY | 2,202 | 2,202 |
| 256 | 0200 | RIPRAP GRADE II | CY | 80 | 80 |
| 260 | 0100 | SILT FENCE UNSUPPORTED | LF | 20,105 | 20,105 |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | LF | 20,105 | 20,105 |
| 261 | 0112 | FIBER ROLLS 12IN | LF | 57,440 | 57,440 |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | LF | 12,960 | 12,960 |
| 302 | 0120 | AGGREGATE BASE COURSE CL 5 | TON | 187,403 | 187,403 |
| 401 | 0050 | TACK COAT | GAL | 15,701 | 15,701 |
| 401 | 0060 | PRIME COAT | GAL | 36,557 | 36,557 |
| 401 | 0160 | BLOTTER MATERIAL CL 44 | TON | 1,185 | 1,185 |
| 411 | 0100 | MILLING PAVEMENT SURFACE | TON | 3,225 | 3,225 |
| 430 | 0045 | SUPERPAVE FAA 45 | TON | 56,281 | 56,281 |
| 430 | 1000 | CORED SAMPLE | EA | 266 | 266 |
| 430 | 5818 | PG 58H-34 ASPHALT CEMENT | TON | 3,377 | 3,377 |
| 602 | 1131 | CLASS AE-3 CONCRETE-BOX CULVERT | CY | 59.8 | 59.8 |
| 612 | 0114 | REINFORCING STEEL-GRADE 60-BOX CULVERT | LBS | 8,939 | 8,939 |

ESTIMATE NUMBER: 21899  ESTIMATE TYPE: FINAL FINALIZED: Y RUN DATE: 08/29/2024 TIME: 11:53:31

# ESTIMATE OF QUANTITIES

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 8 | 2 |

| SPEC | CODE | ITEM DESCRIPTION | UNIT | MAINLINE | TOTAL |
|---|---|---|---|---|---|
| 702 | 0100 | MOBILIZATION | L SUM | 1 | 1 |
| 704 | 0100 | FLAGGING | MHR | 3,600 | 3,600 |
| 704 | 1000 | TRAFFIC CONTROL SIGNS | UNIT | 5,761 | 5,761 |
| 704 | 1043 | ATTENUATION DEVICE-TYPE B-65 | EA | 4 | 4 |
| 704 | 1048 | PORTABLE RUMBLE STRIPS | EA | 12 | 12 |
| 704 | 1052 | TYPE III BARRICADE | EA | 24 | 24 |
| 704 | 1080 | STACKABLE VERTICAL PANELS | EA | 856 | 856 |
| 704 | 1500 | OBLITERATION OF PAVEMENT MARKING | SF | 28,797 | 28,797 |
| 704 | 3511 | STATE FURNISHED MEDIAN BARRIER | LF | 350 | 350 |
| 706 | 0400 | FIELD OFFICE | EA | 1 | 1 |
| 706 | 0500 | AGGREGATE LABORATORY | EA | 1 | 1 |
| 706 | 0550 | BITUMINOUS LABORATORY | EA | 1 | 1 |
| 706 | 0600 | CONTRACTOR'S LABORATORY | EA | 1 | 1 |
| 709 | 0155 | GEOSYNTHETIC MATERIAL TYPE RR | SY | 151 | 151 |
| 714 | 0615 | PIPE CONC REINF 24IN CL III | LF | 212 | 212 |
| 714 | 0820 | PIPE CONC REINF 30IN CL III | LF | 126 | 126 |
| 714 | 0865 | PIPE CONC REINF 33IN CL III | LF | 14 | 14 |
| 714 | 0905 | PIPE CONC REINF 36IN CL III | LF | 10 | 10 |
| 714 | 1005 | PIPE CONC REINF 42IN CL III | LF | 20 | 20 |
| 714 | 3020 | END SECT-CONC REINF 24IN | EA | 2 | 2 |
| 714 | 3030 | END SECT-CONC REINF 30IN | EA | 2 | 2 |
| 714 | 5015 | PIPE CORR STEEL .064IN 18IN | LF | 22 | 22 |
| 714 | 5035 | PIPE CORR STEEL .064IN 24IN | LF | 144 | 144 |
| 714 | 5040 | PIPE CORR STEEL .064IN 30IN | LF | 4 | 4 |
| 714 | 5810 | END SECT CORR STEEL .064IN 18IN | EA | 5 | 5 |
| 714 | 5820 | END SECT CORR STEEL .064IN 24IN | EA | 6 | 6 |
| 714 | 5825 | END SECT CORR STEEL .079IN 30IN | EA | 1 | 1 |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | EA | 26 | 26 |
| 754 | 0110 | FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING | SF | 397 | 397 |
| 754 | 0112 | FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING | SF | 107 | 107 |
| 754 | 0149 | RESET DELINEATOR | EA | 170 | 170 |
| 754 | 0155 | DELINEATORS-TYPE A-DOUBLE SIDED | EA | 64 | 64 |
| 754 | 0206 | STEEL GALV POSTS-TELESCOPING PERFORATED TUBE | LF | 1,185 | 1,185 |

ESTIMATE NUMBER: 21899  ESTIMATE TYPE: FINAL FINALIZED: Y RUN DATE: 08/29/2024 TIME: 11:53:31

# ESTIMATE OF QUANTITIES

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 8 | 3 |

| SPEC | CODE | ITEM DESCRIPTION | UNIT | MAINLINE | TOTAL |
|---|---|---|---|---|---|
| 754 | 0592 | RESET SIGN PANEL | EA | 15 | 15 |
| 754 | 0596 | RESET MILE POST | EA | 7 | 7 |
| 754 | 0805 | OBJECT MARKERS - CULVERTS | EA | 42 | 42 |
| 760 | 0005 | RUMBLE STRIPS - ASPHALT SHOULDER | MILE | 16.3 | 16.3 |
| 762 | 0103 | PVMT MK PAINTED-MESSAGE | SF | 1,622 | 1,622 |
| 762 | 0432 | SHORT TERM 6IN LINE-TYPE NR | LF | 281,142 | 281,142 |
| 762 | 1106 | PVMT MK PAINTED 6IN LINE | LF | 626,733 | 626,733 |
| 762 | 1112 | PVMT MK PAINTED 12IN LINE | LF | 2,875 | 2,875 |
| 762 | 1124 | PVMT MK PAINTED 24IN LINE | LF | 12 | 12 |
| 766 | 0100 | MAILBOX-ALL TYPES | EA | 2 | 2 |
| 900 | 1000 | TEMPORARY STREAM DIVERSION | EA | 2 | 2 |

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 10 | 1 |

MATERIALS

Aggregate Base Course CL 5 @ 1.5 Ton/CY + 25%
Superpave FAA 45 @ 2.0 Ton/CY
PG 58H-34 Asphalt Cement @ 6.0%
Tack Coat @ 0.05 Gal/SY
Prime Coat @ 0.25 Gal/SY
Blotter Material Cl 44 @ 15 lbs/SY

REMOVALS / MILLING
Bituminous Pavement @ 2.0 Ton/CY
Aggregate @ 1.875 Ton/CY

Water
25 MGal/Mile for Dust Palliative
20 Gal/Ton for Aggregates
10 Gal/CY for Embankment

**HMA Cored Samples 430-1000**

| Specification Section | Location | Begin Station | End Station | A Distance (Ft) ÷1000 | B Lanes | C Lifts | Quantity (A x B x C) | Quantity (1 per mile) | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 430.04 I.2.b(1), "General" | Passing Lane # 1 | 226+80 | 347+00 | 12 | 1 | 3 | **36** | N/A | EA |
| | Passing Lane # 2 | 493+40 | 614+60 | 12 | 1 | 3 | **36** | N/A | EA |
| | Passing Lane # 3 | 889+80 | 1011+00 | 12 | 1 | 3 | **36** | N/A | EA |
| | Passing Lane # 4 | 1175+00 | 1289+30 | 11 | 1 | 3 | **34** | N/A | EA |
| | Passing Lane # 5 | 1265+06 | 1377+50 | 11 | 1 | 3 | **34** | N/A | EA |
| | Passing Lane # 6 | 1490+00 | 1577+45 | 9 | 1 | 3 | **26** | N/A | EA |
| | Passing Lane # 7 | 1590+24 | 1678+94 | 9 | 1 | 3 | **27** | N/A | EA |
| | Passing Lane # 8 | 1764+94 | 1836+44 | 7 | 1 | 3 | **21** | N/A | EA |
| 430.04 I.2.b(2), "Pavement Thickness Determination Cores" | Passing Lane # 1 | 226+80 | 347+00 | N/A | | | | 2 | EA |
| | Passing Lane # 2 | 493+40 | 614+60 | | | | | 2 | EA |
| | Passing Lane # 3 | 889+80 | 1011+00 | | | | | 2 | EA |
| | Passing Lane # 4 | 1175+00 | 1289+30 | | | | | 2 | EA |
| | Passing Lane # 5 | 1265+06 | 1377+50 | | | | | 2 | EA |
| | Passing Lane # 6 | 1490+00 | 1577+45 | | | | | 2 | EA |
| | Passing Lane # 7 | 1590+24 | 1678+94 | | | | | 2 | EA |
| | Passing Lane # 8 | 1764+94 | 1836+44 | | | | | 1 | EA |
| | | | | | | **Total** | 251 | 15 | EA |

**Short Term 6 IN Line-Type NR 762-0432**

| Location | Begin Station | End Station | Basis | Quantity | Units |
|---|---|---|---|---|---|
| Passing Lane # 1 Top of Final Lift | 226+20 | 347+40 | 6" Double Yellow Centerline @10,560 LF/mile | 24,240 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 3,030 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 12,120 | LF |
| Passing Lane # 2 Top of Final Lift | 493+40 | 614+60 | 6" Double Yellow Centerline @10,560 LF/mile | 24,240 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 3,030 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 12,120 | LF |
| Passing Lane # 3 Top of Final Lift | 889+80 | 1011+00 | 6" Double Yellow Centerline @10,560 LF/mile | 24,240 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 3,030 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 12,120 | LF |
| Passing Lane # 4 Top of Final Lift | 1171+60 | 1292+80 | 6" Double Yellow Centerline @10,560 LF/mile | 24,240 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 3,030 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 12,120 | LF |
| Passing Lane # 5 Top of Final Lift | 1260+20 | 1381+40 | 6" Double Yellow Centerline @10,560 LF/mile | 24,240 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 3,030 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 12,120 | LF |
| Passing Lane # 6 Top of Final Lift | 1490+00 | 1581+18 | 6" Double Yellow Centerline @10,560 LF/mile | 18,236 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 2,280 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 9,118 | LF |
| Passing Lane # 7 Top of Final Lift | 1586+83 | 1678+94 | 6" Double Yellow Centerline @10,560 LF/mile | 18,422 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 2,303 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 9,211 | LF |
| Passing Lane # 8 Top of Final Lift | 1764+94 | 1839+54 | 6" Double Yellow Centerline @10,560 LF/mile | 14,920 | LF |
| | | | 6" White Lane Line @1,320 LF/mile | 1,865 | LF |
| | | | 6" White Edge Line @5,280 LF/mile | 7,460 | LF |

**Rumble Strips-Shoulder 760-0005**

| Location | Begin Station | End Station | Basis | Quantity | Units |
|---|---|---|---|---|---|
| Passing Lane # 1 | 226+20 | 347+40 | 5,280 LF/Mile | 2.3 | Mile |
| Passing Lane # 2 | 493+40 | 614+60 | 5,280 LF/Mile | 2.3 | Mile |
| Passing Lane # 3 | 889+80 | 1011+00 | 5,280 LF/Mile | 2.3 | Mile |
| Passing Lane # 4 | 1171+60 | 1292+80 | 5,280 LF/Mile | 2.3 | Mile |
| Passing Lane # 5 | 1260+20 | 1381+40 | 5,280 LF/Mile | 2.3 | Mile |
| Passing Lane # 6 | 1490+00 | 1581+18 | 5,280 LF/Mile | 1.7 | Mile |
| Passing Lane # 7 | 1586+83 | 1678+94 | 5,280 LF/Mile | 1.7 | Mile |
| Passing Lane # 8 | 1764+94 | 1836+44 | 5,280 LF/Mile | 1.4 | Mile |

**Subgrade Preparation-Type A Shoulders 230-0303**

| Location | Begin Station | End Station | Basis | Quantity | Units |
|---|---|---|---|---|---|
| Passing Lane # 1 | 226+80 | 347+00 | 1 Sta / 100 LF | 120.2 | Sta |
| Passing Lane # 2 | 493+40 | 614+60 | 1 Sta / 100 LF | 121.2 | Sta |
| Passing Lane # 3 | 889+80 | 1011+00 | 1 Sta / 100 LF | 121.2 | Sta |
| Passing Lane # 4 | 1175+00 | 1289+30 | 1 Sta / 100 LF | 114.3 | Sta |
| Passing Lane # 5 | 1265+06 | 1377+50 | 1 Sta / 100 LF | 112.4 | Sta |
| Passing Lane # 6 | 1490+00 | 1577+45 | 1 Sta / 100 LF | 87.5 | Sta |
| Passing Lane # 7 | 1590+24 | 1678+94 | 1 Sta / 100 LF | 88.7 | Sta |
| Passing Lane # 8 | 1764+94 | 1836+44 | 1 Sta / 100 LF | 71.5 | Sta |

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Basis of Estimate

US 52

DocuSign Envelope ID: 958B3E26-0856-4BDB-8FE9-754EE635CF8E

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 10 | 2 |

Pavement Marking:

**US 52 Pavement Marking**

| | | | PVMT MK PAINTED 6IN LINE 762-1106 | | | | | | PVMT MK PAINTED 24IN LINE 762-1124 | PVMT MK PAINTED - MESSAGE 762-0103 | | | | | | | PVMT MK PAINTED 12IN LINE 762-1112 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | Begin RP | End RP | CL Skips (LF) | CL Skips (LF) | Left Edge Line (LF) | Right Edge Line | WB Barrier (LF) | EB Barrier (LF) | 24" Stop Bar (LF) | STOP AHEAD 52 SF (each) | EB Railroad cross & 2 R's (SF) | EB 3 Bands (12' lane) (SF) | WB Railroad cross & | WB 3 Bands (12' lane) (SF) | LT Arrow 16 SF (each) | RT Arrow 16 SF (each) | 12" Channel (LF) |
| | | | Yellow | White | White | White | Yellow | Yellow | | | | | | | | | |
| Portal to Passing Lane 1 | 0.36 | 4.3 | 5201 | | 20803 | 20803 | | | | | | | | | | | |
| Passing Lane 1 | 4.3 | 6.5 | Section 120-1 | | 11616 | | Section 120-1 | | | | | | | | | | |
| Passing Lane 1 to Passing Lane 2 | 6.5 | 9.3 | 3696 | | 14784 | 14784 | | | | | | | | | | | |
| RR Crossing | 6.9 | | | | | | 871 | 871 | | | 60.5 | 72 | 60.5 | 72 | | | |
| Jct ND 5 / US 52 | 7.3 | 7.6 | | | | | 713 | 713 | 12 | 52 | | | | | | 48 | 220 |
| Passing Lane 2 | 9.3 | 11.6 | Section 120-1 | | Section 120- | 12144 | Section 120-1 | | | | | | | | | | |
| Passing Lane 2 to Passing Lane 3 | 11.6 | 16.9 | 3436 | | 11986 | 11986 | | | | | | | | | | | |
| Left Turn Lane | 13.9 | 14.2 | | | | | 1426 | 2244 | | | | | | | 48 | | 350 |
| Right Turn Lane and RR Bridge | 14.5 | 15.1 | | | | | 2450 | 2682 | | | | | | | | 48 | 340 |
| Passing Lane 3 | 16.9 | 19.2 | Section 120-1 | | 12144 | | Section 120-1 | | | | | | | | | | |
| Passing Lane 3 to Passing Lane 4 | 19.2 | 22.3 | 4092 | | 16368 | 16368 | | | | | | | | | | | |
| Right Turn Lane | 20.2 | 20.5 | | | | | 871 | 840 | | | | | | | | 48 | 395 |
| RR Crossing | 20.8 | 21.0 | | | | | 560 | 554 | | | 60.5 | 72 | 60.5 | 72 | | | |
| Passing Lane 4 | 22.3 | 24.0 | Section 120-1 | | Section 120- | 8976 | Section 120-1 | | | | | | | | | | |
| Passing Lane 4 & 5 Overlap | 24.0 | 24.4 | Section 120-1 | | Section 120-1 | | Section 120-1 | | | | | | | | | | |
| Passing Lane 5 | 24.4 | 26.1 | Section 120-1 | | 8976 | | Section 120-1 | | | | | | | | | | |
| Passing Lane 5 to Passing Lane 6 | 26.1 | 28.2 | 1514 | | 11088 | 11088 | | | | | | | | | | | |
| Right Turn Lane | 27.0 | 27.1 | | | | | 1595 | 1595 | | | | | | | | 48 | 385 |
| Left Turn Lane | 27.2 | 27.4 | | | | | 2582 | 2186 | | | | | | | 48 | | 365 |
| Passing Lane 6 | 28.2 | 29.9 | Section 120-1 | | Section 120- | 8976 | Section 120-1 | | | | | | | | | | |
| Passing Lane 6 to Passing Lane 7 | 29.9 | 30.1 | 264 | | | | | | | | | | | | | | |
| Passing Lane 7 | 30.1 | 31.8 | Section 120-1 | | 8807 | | Section 120-1 | | | | | | | | | | |
| Existing Passing Lane | 31.8 | 32.4 | 33 | 689 | | | 3147 | 4319 | | | | | | | | | |
| Passing Lane 7 to Passing Lane 8/Existing Passing Lane | 32.4 | 33.4 | 1061 | 949 | | | 2186 | 2233 | | | | | | | | | |
| Passing Lane 8 | 33.4 | 34.8 | 157 | | 7392 | | Section 120-1 | | | | | | | | | | |
| Left Turn Lane | 33.5 | 33.9 | | | | | 4108 | 4161 | | | | | | | 48 | | 400 |
| Passing Lane 8 to Jct ND 5 | 34.8 | 36.9 | 2348 | | 10835 | 10835 | 3068 | 2413 | | | | | | | 48 | | 420 |
| | | Subtotal | 21802 | 1638 | 134798 | 115959 | 23575 | 24811 | 12 | 52 | 121 | 144 | 121 | 144 | 192 | 192 | 2875 |
| | | **Total** | | | | | | **322584** | **12** | | | | | | | **966** | **2875** |
| | | | | | | | | LF | LF | | | | | | | SF | LF |

Earthwork:

| Location | EXCAVATION | EMBANKMENT | 203-0101 COMMON EXCAVATION - TYPE A | 203-0140 BORROW EXCAVATION |
|---|---|---|---|---|
| | | | Pay Item | Pay Item |
| | (CY) | (CY) | (CY) | (CY) |
| | | | | |
| Passing Lane 1 | 5,846 | 30,955 | 5,846 | 25,109 |
| Passing Lane 2 | 23,014 | 29,276 | 23,014 | 6,262 |
| Passing Lane 3 | 10,237 | 26,169 | 10,237 | 15,932 |
| Passing Lane 4 | 9,638 | 10,930 | 9,638 | 1,292 |
| Passing Lane 5 | 10,037 | 16,872 | 10,037 | 6,835 |
| Passing Lane 6 | 4,229 | 10,699 | 4,229 | 6,470 |
| Passing Lane 7 | 5,173 | 10,647 | 5,173 | 5,474 |
| Passing Lane 8 | 4,675 | 7,420 | 4,675 | 2,745 |
| | | | | |
| Totals | 72,849 | 142,968 | 72,849 | 70,119 |

Mailboxes 766-0100

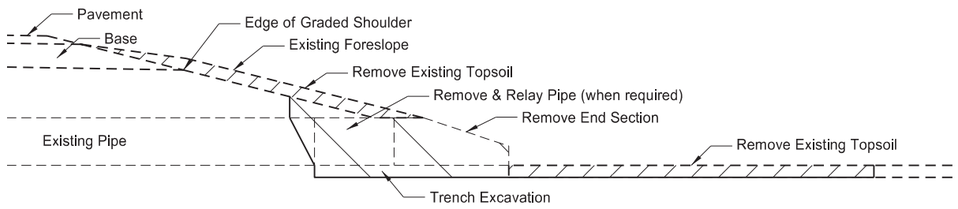
| Reference Point | LT or RT | Station | Type | Quantity | Work |
|---|---|---|---|---|---|
| 23.275 | RT | 1228+92 | Single | 1 | Replace |
| 24.700 | LT | 1304+16 | Single | 1 | Replace |
| | | | Total | 2 | |

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NORTH DAKOTA

Basis of Estimate

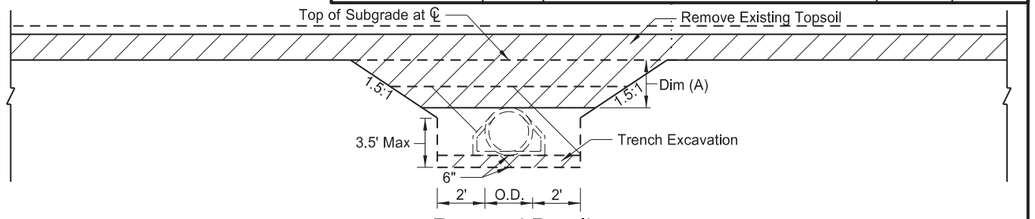
US 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 20 | 1 |



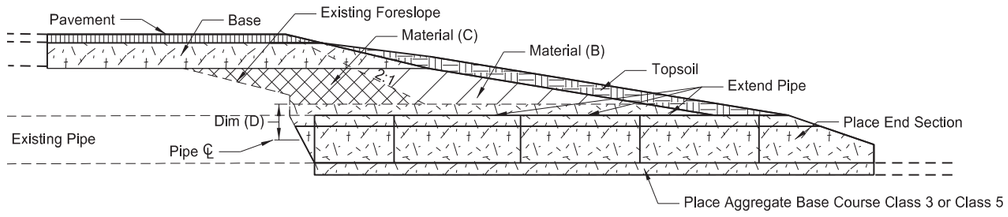

## Removal Section

Cross Section View



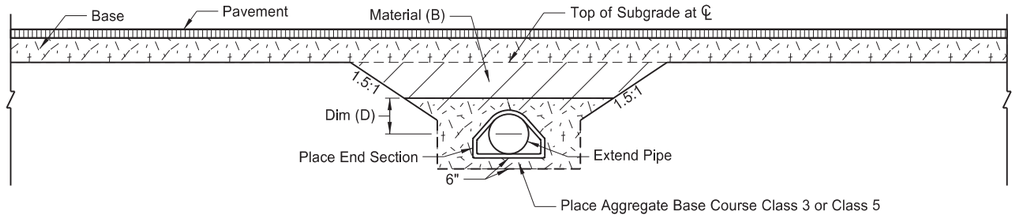

## Removal Detail

Side View



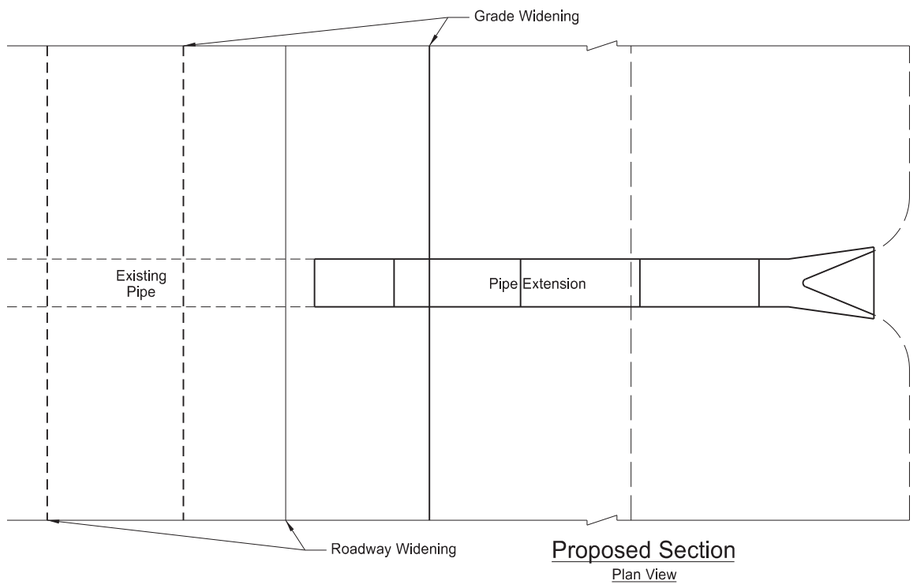

## Proposed Section

Cross Section View




## Backfill Detail

Side View (Topsoil not shown)




## Proposed Section

Plan View

Pay Items
1) Pipe*
2) Remove & Relay Pipe - All Types & Sizes (when required)
3) Remove & Reset End Section or
Remove End Section and Place New End Section
4) Borrow Excavation or Common Excavation
5) Topsoil
6) Seeding
7) Mulching

*Included in Pipe Pay Item
1) Pipe
2) Trench excavation
3) Aggregate Base Course Class 3 or Class 5

| Pipe Materials | Dim (A)<=4 Feet | | Backfill Dimension |
|---|---|---|---|
| | Material (B) | Material (C) | Dim (D) |
| Concrete | Embank or Aggr | Aggregate | 0.5 O.D. |
| Metal | Embank or Aggr | Aggregate | 0.5 O.D.+1 Foot |

| Pipe Materials | Dim (A)>4 Feet | | Backfill Dimension |
|---|---|---|---|
| | Material (B) | Material (C) | Dim (D) |
| Concrete | Embankment | Embankment | 0.5 O.D. |
| Metal | Embankment | Embankment | 0.5 O.D.+1 Foot |

NOTES:
1. Embankment may be either Borrow Excavation or Common Excavation

2. Aggregate may be either Class 3 or Class 5 Aggregate Base Course.

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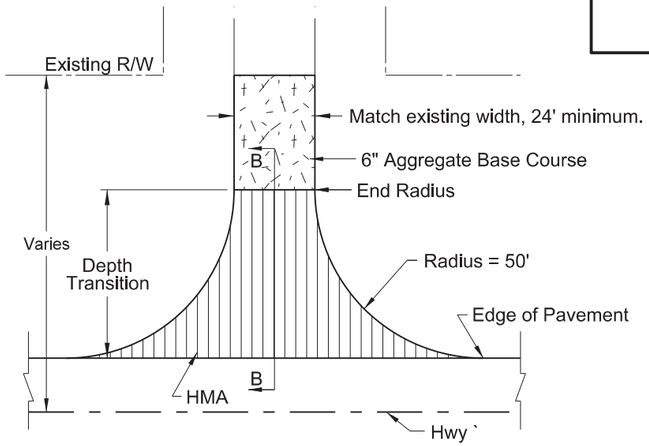
Mainline Widening CL Pipe Extension Detail

Passing Lanes

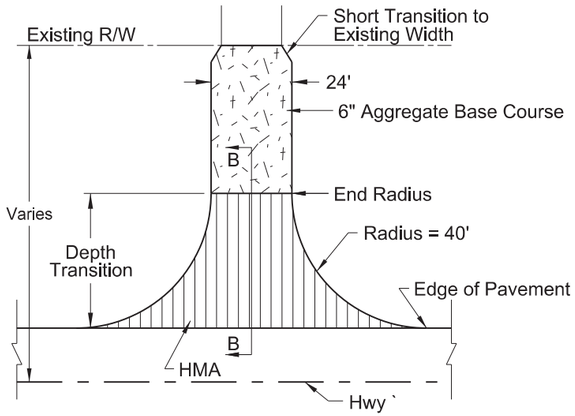
US 52

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 20 | 2 |

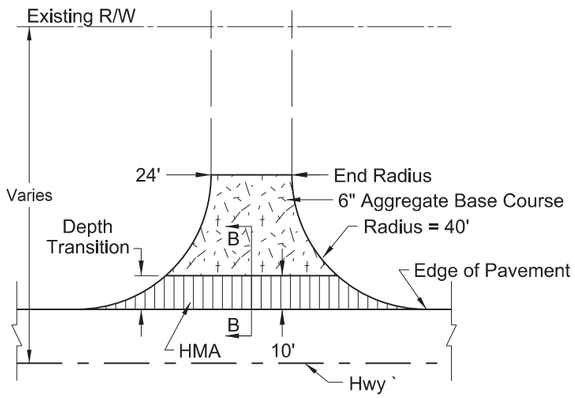
| | | | | Superpave FAA 45 | | Aggregate Base Course CL 5 | | Aggregate Base Course CL 5 (Used for Surfacing) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Average Depth | Qty | Average Depth | Qty | Average Depth | Qty |
| Sta | Location | Type | Street | (In) | (Tons) | (In) | (Tons) | (In) | (Tons) |
| 234+97 | LT | Gravel Section Line | 105th St NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 18.4 |
| 256+57 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 280+44 | LT | Gravel Private Drive | | 5.5 | 58.7 | 15 | 171.7 | 6 | 27.1 |
| 287+63 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 314+20 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 340+65 | LT | Gravel Section Line | 103rd St NW | 5.5 | 81.6 | 15 | 238.5 | 6 | 19.1 |
| 496+38 | RT | Gravel Section Line | 82nd Ave NW | 5.5 | 81.8 | 15 | 239.1 | 6 | 31.9 |
| 514+60 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 522+87 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 544+73 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 549+23 | RT | Gravel Section Line | 81st Ave NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 26.3 |
| 563+73 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 575+80 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 602+09 | RT | Gravel Section Line | 80th Ave NW | 5.5 | 80.6 | 15 | 235.4 | 6 | 26.1 |
| 890+94 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 917+28 | LT | Gravel Section Line | 74th Ave NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 18.4 |
| 939+65 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 944+57 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 970+00 | LT | Gravel Section LIne | 73rd Ave NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 18.4 |
| 996+32 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1009+65 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1173+05 | RT | Gravel Section Line | 101st St NW | 5.5 | 81.4 | 15 | 237.9 | 6 | 22.7 |
| 1186+22 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1199+46 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1221+97 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1225+85 | RT | Gravel Section Line | 100th St NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 18.4 |
| 1229+17 | RT | Gravel Private Drive | | 5.5 | 58.7 | 15 | 171.7 | 6 | 11.2 |
| 1234+20 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1252+37 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1278+73 | RT | Gravel Section Line | 99th St NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 18.4 |
| 1278+73 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1304+12 | LT | Gravel Private Drive | | 5.5 | 58.7 | 15 | 171.7 | 6 | 35.3 |
| 1306+65 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1318+34 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1331+55 | LT | Gravel Section Line | 98th St NW | 5.5 | 81.1 | 15 | 236.9 | 6 | 35.9 |
| 1354+77 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1357+88 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1366+28 | LT | Field Approach | | 5.5 | 26.2 | 15 | 76.5 | 6 | 41.6 |
| 1513+87 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1533+40 | RT | Gravel Private Drive | | 5.5 | 58.7 | 15 | 171.7 | 6 | 27.1 |
| 1612+77 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1618+64 | LT | Gravel Private Drive | | 5.5 | 58.7 | 15 | 171.7 | 6 | 27.1 |
| 1639+12 | LT | Gravel Section Line | 66th Ave NW | 5.5 | 81.3 | 15 | 237.5 | 6 | 18.4 |
| 1645+64 | LT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1783+72 | RT | Field Approach | | 5.5 | 24.8 | 15 | 72.4 | 6 | 36.6 |
| 1797+55 | RT | Field Approach | | 5.5 | 24.8 | 15 | 72.4 | 6 | 36.3 |
| 1809+40 | RT | Field Approach | | 5.5 | 24.1 | 15 | 70.5 | 6 | 35.4 |
| 1835+97 | RT | Gravel PrIvate DrIve | | 5.5 | 59.5 | 15 | 174.0 | 6 | 26.7 |
| | | | | | | | | | |
| | | | Totals | | 2055 | | 6004 | | 1496 |




Gravel Section Line, County Road, or Street Approach



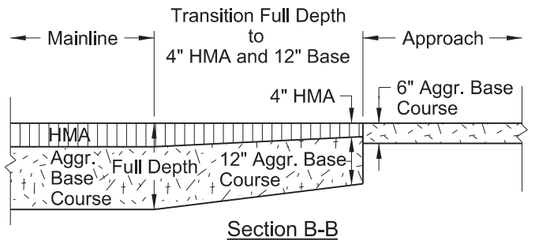

Gravel Private Drive Approach




Field Drive Approach

Notes:

1. Actual HMA paving and aggregate base course locations may vary in the field, as approved by the Engineer.
2. Quantity totals have been included in the bid items of the "Estimate of Quantities" of the plans.




Section B-B
(not to scale)




09/01/23

Approach Paving Details for
New or Regrading Rural Approaches

(Approach Grading)

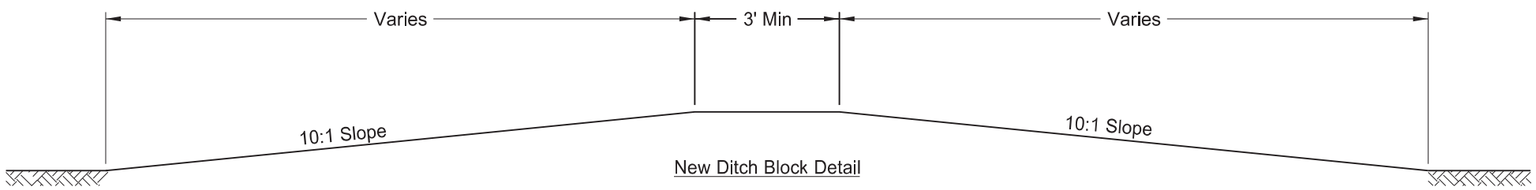
Passing Lanes

US 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 20 | 3 |

DITCH BLOCK

| Location | Top Elevation | Qnty |
|---|---|---|
| Sta 510+70 Rt. | 1945.75' | 1 |




New Ditch Block Detail

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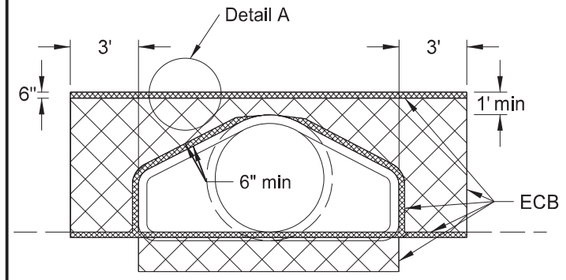
09/01/23

Ditch Block Detail

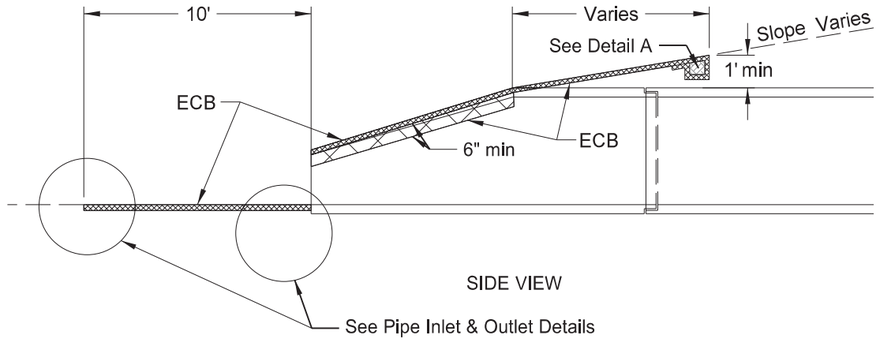
Passing Lanes

US 52

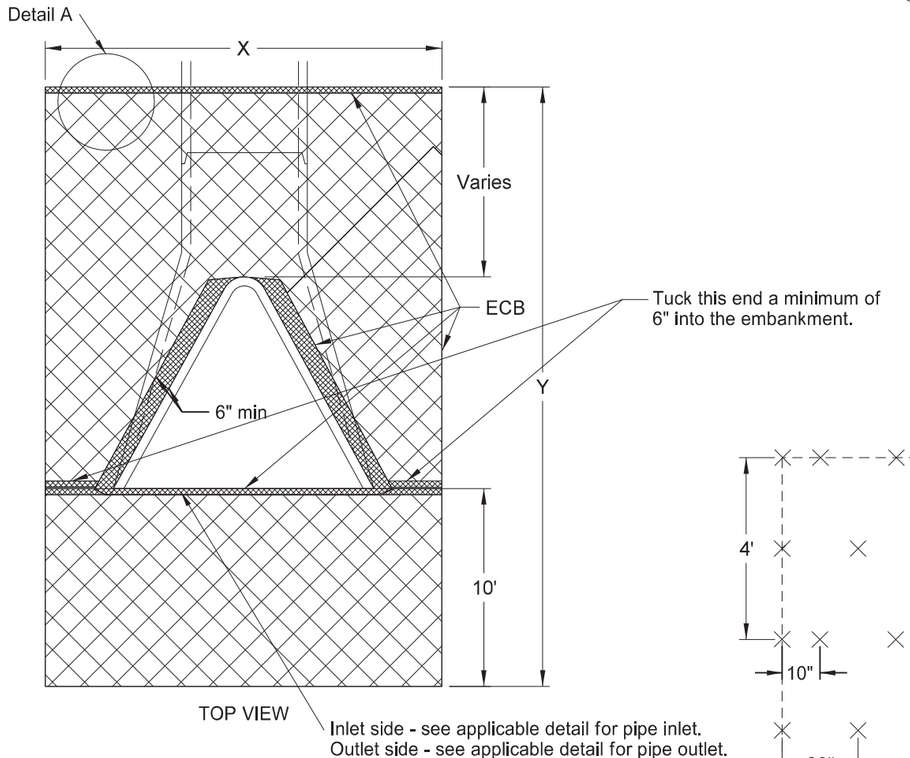
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 20 | 4 |




FRONT VIEW

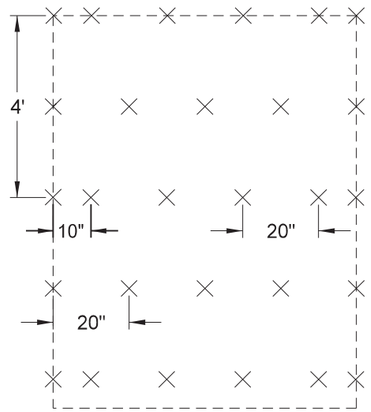



SIDE VIEW




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 |

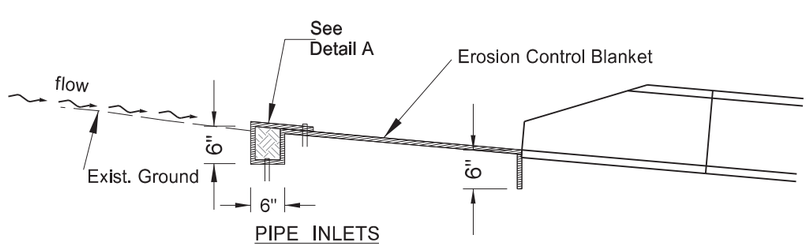
Note: Quantities based on 8:1 slope.

| 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 |

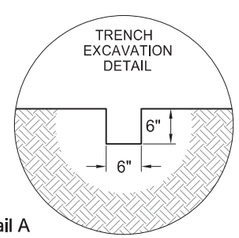
Note: Quantities based on 6:1 slope.

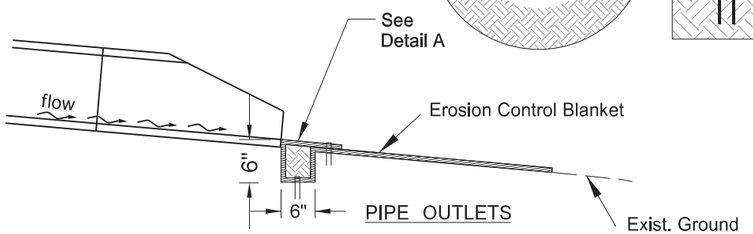
| | | | | |
|---|---|---|---|---|
| DIA | X | Y | Surface area to be protected | ECB |
| In | Ft | Ft | SF | SY |
| 24 | 10.5 | 17.6 | 172.1 | 20 |
| 27 | 11.0 | 18.0 | 182.3 | 21 |
| 30 | 11.6 | 18.5 | 195.1 | 22 |
| 36 | 12.7 | 19.2 | 216.7 | 24 |
| 42 | 13.3 | 19.2 | 225.2 | 25 |
| 48 | 13.8 | 20.0 | 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.

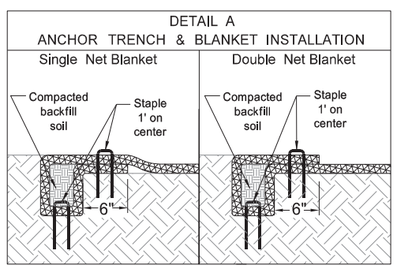



PIPE INLETS




PIPE OUTLETS







09/01/23

Erosion Control at Culvert Flared End Sections

Passing Lanes

US 52

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 20 | 5 |

255 0102 ECB TYPE 2

| Location of Surface Area to be Protected | | | | Pipe Diamet | Unit Quanti | Total Quanti |
|---|---|---|---|---|---|---|
| Station | | Offset | No | In | SY | SY |
| Passing Lane 1 | | | | | | |
| 234+98 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 256+59 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 264+42 | CL | Lt | 1 | 42 | 28 | 28 |
| 287+66 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 289+95 | CL | Lt | 1 | 30 | 25 | 25 |
| 298+89 | CL | Lt | 1 | 30 | 25 | 25 |
| 299+00 | CL | Lt | 1 | 30 | 25 | 25 |
| 310+94 | CL | Lt | 1 | 30 | 25 | 25 |
| 314+27 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 331+00 | CL | Lt | 1 | 24 | 22 | 22 |
| 345+57 | CL | Lt | 1 | 24 | 22 | 22 |
| Passing Lane 2 | | | | | | |
| 507+78 | CL | Rt | 1 | 30 | 25 | 25 |
| 514+61 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 517+71 | CL | Rt | 1 | 24 | 22 | 22 |
| 517+85 | CL | Rt | 1 | 24 | 22 | 22 |
| 534+83 | CL | Rt | 1 | 30 | 25 | 25 |
| 549+23 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 556+83 | CL | Rt | 1 | 24 | 22 | 22 |
| 566+82 | CL | Rt | 1 | 24 | 22 | 22 |
| 575+80 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 602+10 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| Passing Lane 3 | | | | | | |
| 917+28 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 944+56 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 969+97 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 979+04 | CL | Lt | 1 | 30 | 25 | 25 |
| 996+33 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1009+66 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| Passing Lane 4 | | | | | | |
| 1173+67 | CL | Rt | 1 | 36 | 27 | 27 |
| 1186+23 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1199+45 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1225+86 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1226+21 | Rt | E E nd | 1 | 15 | 20 | 20 |
| 1229+15 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1234+21 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1252+38 | Rt | AHD & BK | 2 | 30 | 27 | 54 |
| 1257+74 | CL | Rt | 1 | 24 | 20 | 20 |
| 1278+74 | Rt | AHD & BK | 2 | 30 | 27 | 54 |
| | | | | | **Subtotal:** | **1302** |

| Location of Surface Area to be Protected | | | | Pipe Diamet | Unit Quanti | Total Quanti |
|---|---|---|---|---|---|---|
| Station | | Offset | No | In | SY | SY |
| Passing Lane 5 | | | | | | |
| 1304+14 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1306+62 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1316+22 | CL | Lt | 1 | 24 | 22 | 22 |
| 1318+29 | Lt | AHD & BK | 2 | 24 | 24 | 48 |
| 1332+14 | CL | Lt | 1 | 24 | 22 | 22 |
| 1354+78 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1357+84 | Lt | AHD | 1 | 18 | 22 | 22 |
| 1365+79 | CL | Lt | 1 | 24 | 22 | 22 |
| 1367+25 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| Passing Lane 6 | | | | | | |
| 1505+21 | CL | Rt | 1 | 24 | 22 | 22 |
| 1533+39 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1548+13 | CL | Rt | 1 | 30 | 25 | 25 |
| 1556+18 | CL | Rt | 1 | 30 | 25 | 25 |
| 1568+72 | CL | Rt | 1 | 24 | 22 | 22 |
| 1576+71 | CL | Rt | 1 | 24 | 22 | 22 |
| Passing Lane 7 | | | | | | |
| 1592+24 | CL | Lt | 1 | 24 | 22 | 22 |
| 1606+63 | CL | Lt | 1 | 24 | 22 | 22 |
| 1618+63 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1622+13 | CL | Lt | 1 | 24 | 22 | 22 |
| 1639+13 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1645+64 | Lt | AHD & BK | 2 | 18 | 22 | 44 |
| 1651+91 | CL | Lt | 1 | 36 | 27 | 27 |
| Passing Lane 8 | | | | | | |
| 1766+61 | CL | Rt | 1 | 24 | 22 | 22 |
| 1783+78 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1791+61 | CL | Rt | 1 | 33 | 27 | 27 |
| 1797+57 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| 1815+22 | CL | Rt | 1 | 24 | 22 | 22 |
| 1835+98 | Rt | AHD & BK | 2 | 18 | 22 | 44 |
| | | | | | **Subtotal:** | 900 |
| | | | | | **Total:** | 2202 |

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EROSION CONTROL BLANKET LOCATIONS

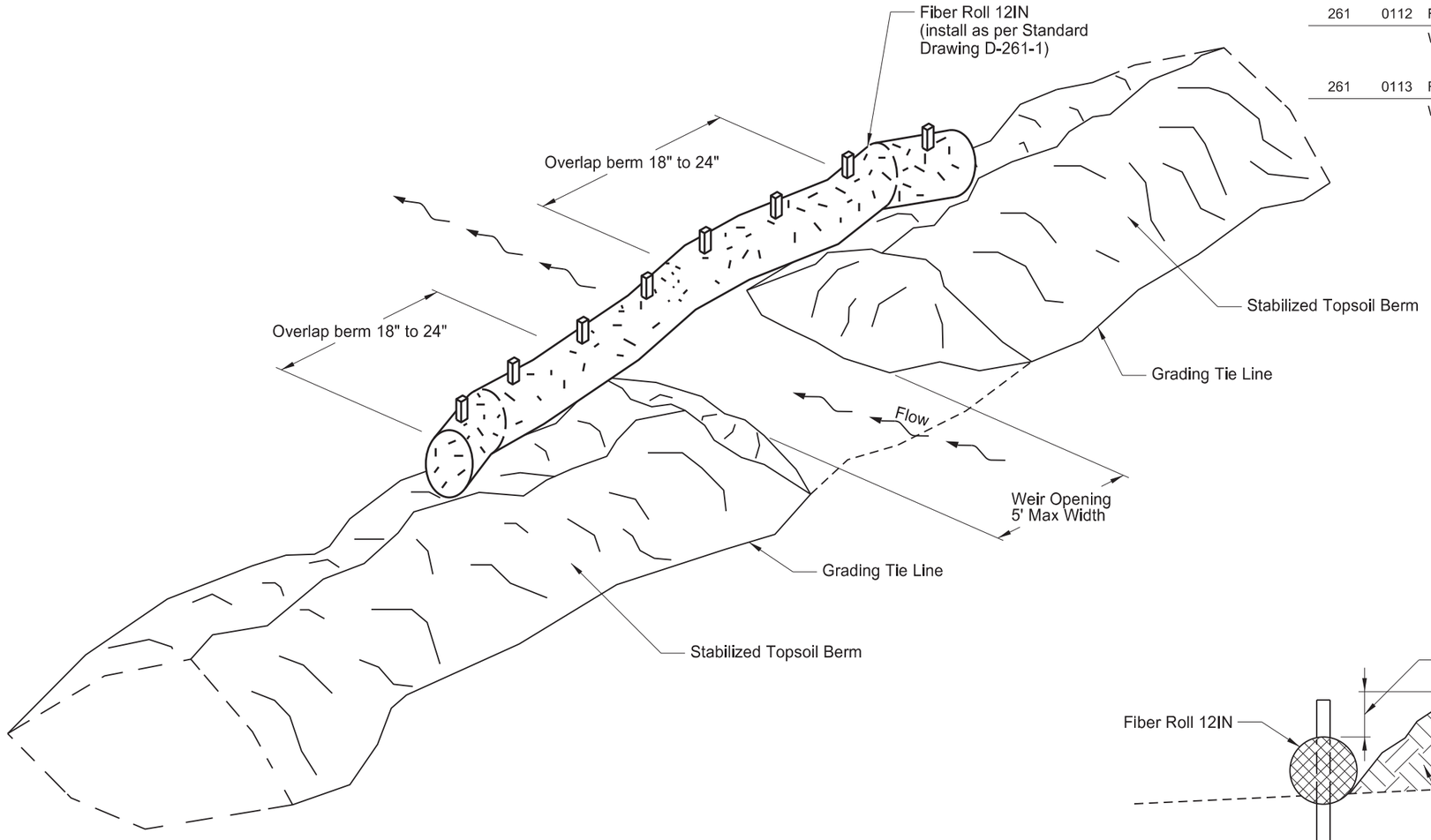
Passing Lanes

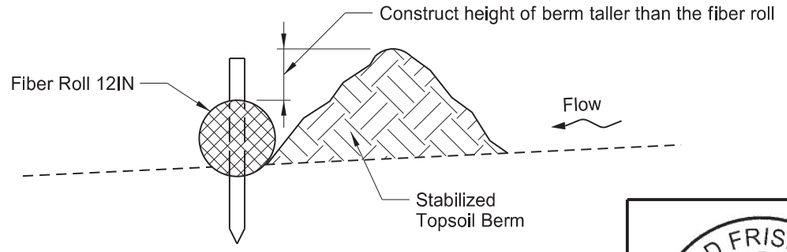
US 52

9/1/2023 2:24:05 PM ghartl R:\project\70052000.034\design\2023 Update\Sheets\020GD_005_ECB Locations.dgn

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 20 | 6 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Weir Locations | 1000 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | Weir Locations | 1000 | LF |




Topsoil Berm Detail

Notes:

1. Windrow the existing topsoil from the foreslope to create a berm at the grading tie line.
2. Stabilize berms in accordance with the Construction General Permit.
3. Place weirs intermittently throughout the length of the berm to allow stormwater to drain through the berm.
4. Avoid placing weirs adjacent to waterbodies.
5. Install fiber rolls as the weirs are created in the topsoil berm.
6. Include costs to create, stabilize, maintain, and dismantle the berm in the unit price bid for "Topsoil".
7. Include costs for fiber rolls in the unit price bid for "Fiber Rolls 12IN".

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Temporary Topsoil Berm and Weir Detail

Passing Lanes

US 52

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 20 | 7 |

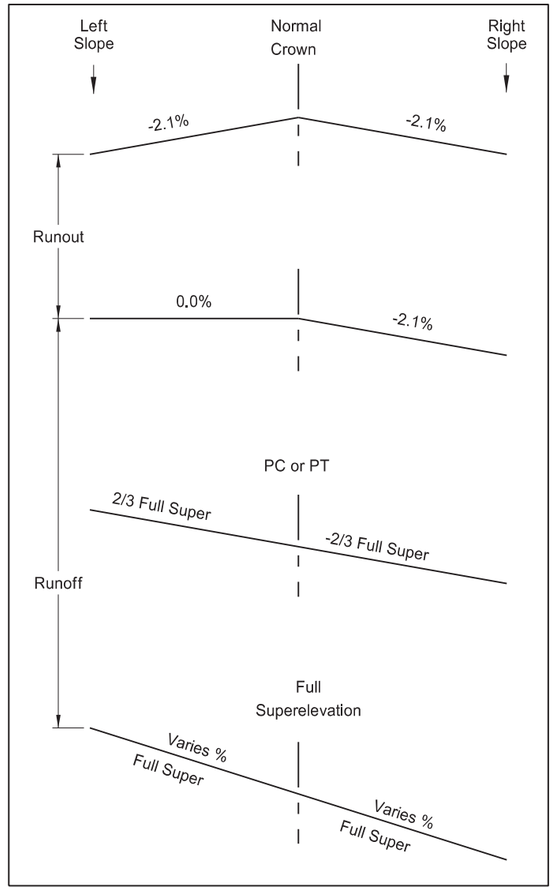
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T.S. Station 1774+50.73
S.C. Station 1778+50.73

P.C. Station 1778+50.73
P.I. Station 1795+54.69
Delta = 89° 42' 47" (RT)
Degree = 2° 59' 59"
Tangent = 449.7122
Length = 2,590.82
Radius = 1,910.10
External = 542.21
P.T. Station 1804+41.54

C.S. Station 1804+41.54
S.T. Station 1808+41.54

| Station | Left Slope (existing) | Right Slope (proposed) |
|---|---|---|
| TS - 140' | -2.1 | -2.1 |
| TS | 0.0 | -2.1 |
| SC | 6.0 | -6.0 |
| CS | 6.0 | -6.0 |
| ST | 0.0 | -2.1 |
| ST + 140' | -2.1 | -2.1 |




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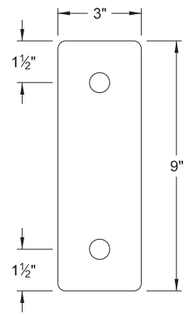
Note: Calculations based on AASHTO method five. A design speed of 70 mph and maximum superelevation of 6% were used.

Superelevation Table

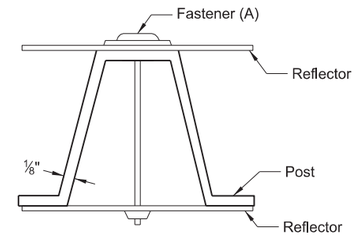
Passing Lanes

US 52

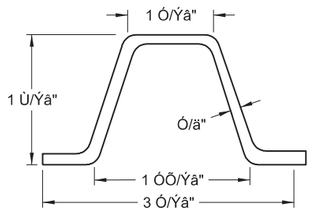
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 20 | 8 |



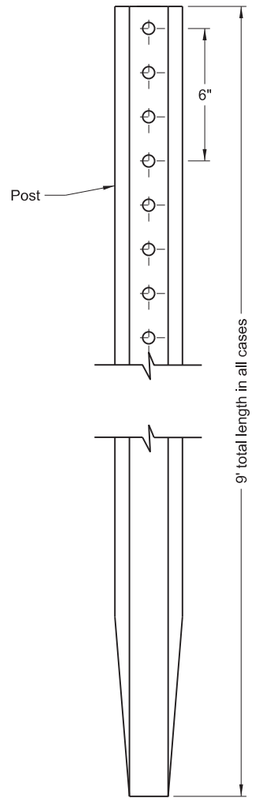

Reflector Detail
(Type A Delineator)



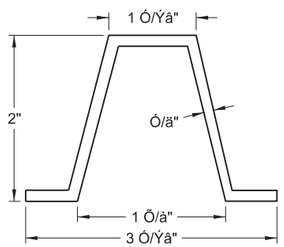

Delineator Attachment Detail



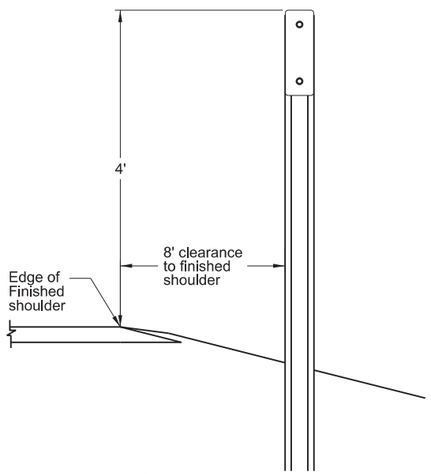

Steel Post Detail
Approx. 2.0 lbs/ft




U-type Post




Aluminum Post Detail
Approx. 0.88 lbs/ft




Installation

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 754 | 0149 | RESET DELINEATORS | | |
| | | Passing Lane 1 | 23 | EA |
| | | Passing Lane 2 | 23 | EA |
| | | Passing Lane 3 | 23 | EA |
| | | Passing Lane 4 | 23 | EA |
| | | Passing Lane 5 | 23 | EA |
| | | Passing Lane 6 | 17 | EA |
| | | Passing Lane 7 | 17 | EA |
| | | Passing Lane 8 | 21 | EA |

## Delineator Details

Installation: Install posts along the shoulder line unless shown otherwise on the plans.

Reflectors; Use Reflectors the same color as the adjacent pavement marking.
Use 0.080 inch minimum thickness sign backing material.

(A) Use fasteners that are a minimum 1/4" diameter. Use double headed rivet or other non-rust vandal resistant fastener.

(B) Single sided delineator - Mount reflectors facing the adjacent lane of traffic at an angle of 93° away from oncoming traffic.
Double sided delineator - Mount reflectors back to back at an angle of 90^ away from oncoming traffic.

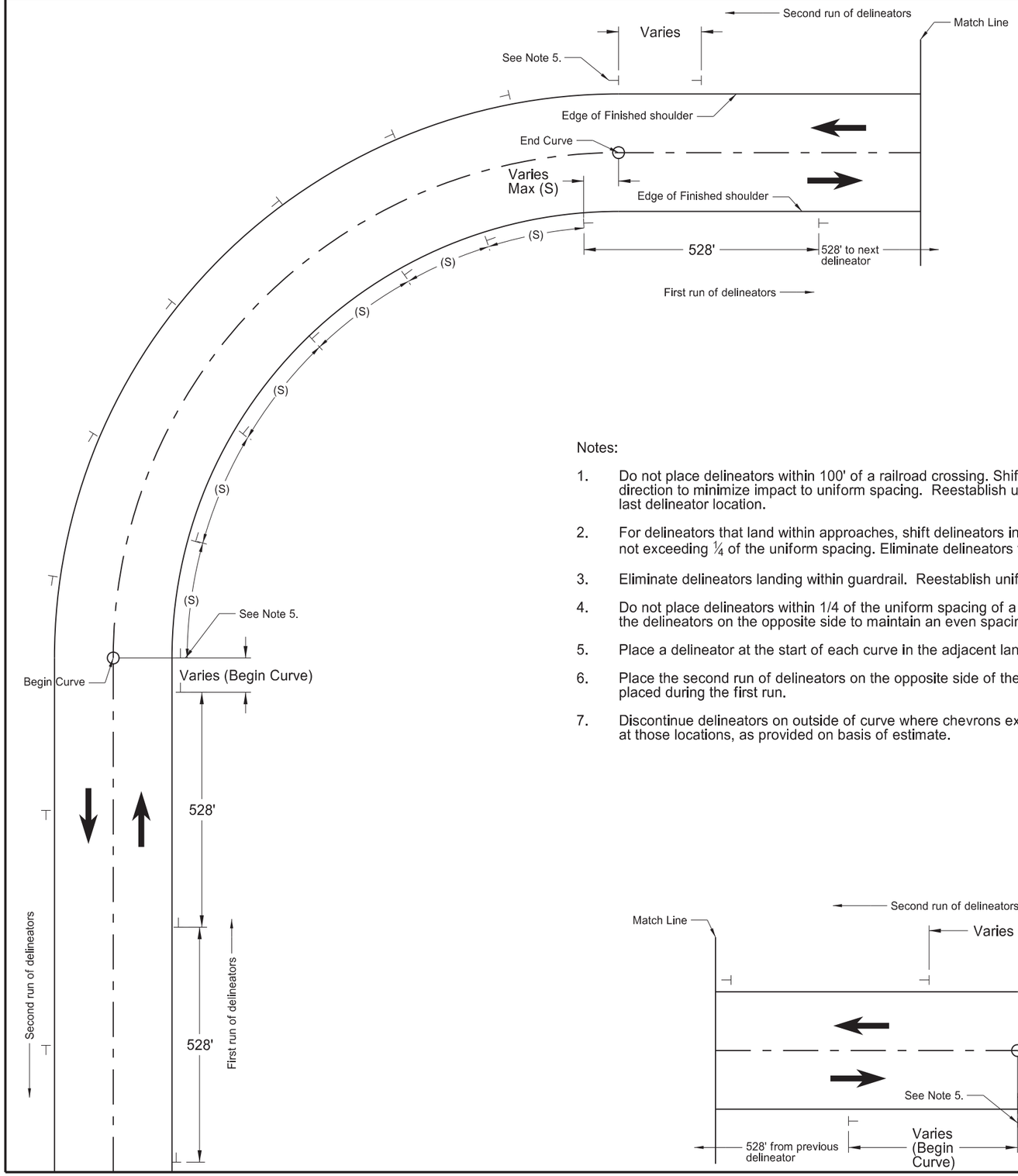
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Delineator Detail

Passing Lanes

US 52

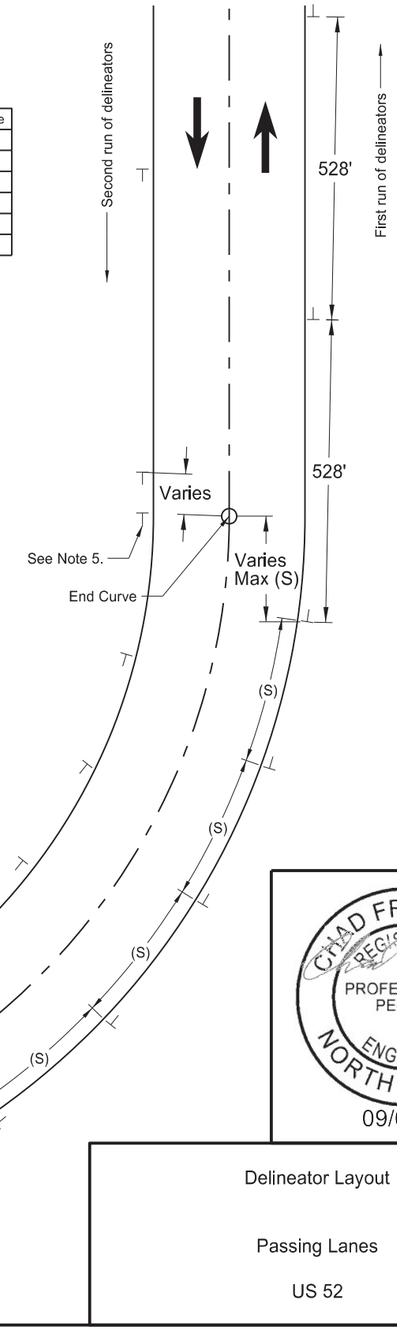
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 20 | 9 |




Spacing:

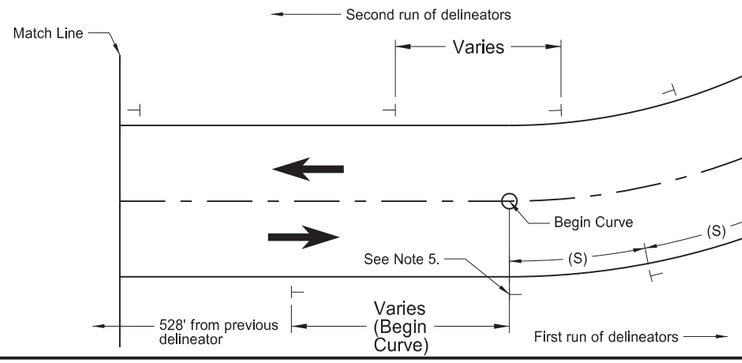
| Curve Radius | Spacing (S) on Center |
|---|---|
| R > 11,500' | 528' |
| 11,500' ≤ R > 1,200' | 264' |
| 1,200' ≤ R | See table below |

| Radius (R) of Curve | Approx. Spacing (S) on Curve |
|---|---|
| 1,200' ≤ R > 1,000' | 90' |
| 1,000' ≤ R > 800' | 80' |
| 800' ≤ R > 500' | 65' |
| 500' ≤ R > 300' | 50' |
| 300' ≤ R > 180' | 35' |
| 180' ≤ R > 50' | 20' |




Notes:

1. Do not place delineators within 100' of a railroad crossing. Shift delineators in either direction to minimize impact to uniform spacing. Reestablish uniform spacing based on the last delineator location.
2. For delineators that land within approaches, shift delineators in either direction a distance not exceeding ¼ of the uniform spacing. Eliminate delineators that still fall within approaches.
3. Eliminate delineators landing within guardrail. Reestablish uniform spacing based on last delineator.
4. Do not place delineators within 1/4 of the uniform spacing of a reference point marker. Adjust the delineators on the opposite side to maintain an even spacing between opposing sides.
5. Place a delineator at the start of each curve in the adjacent lane's direction of travel.
6. Place the second run of delineators on the opposite side of the road midpoint between delineators placed during the first run.
7. Discontinue delineators on outside of curve where chevrons exist. Place delineators on inside of curve, at those locations, as provided on basis of estimate.







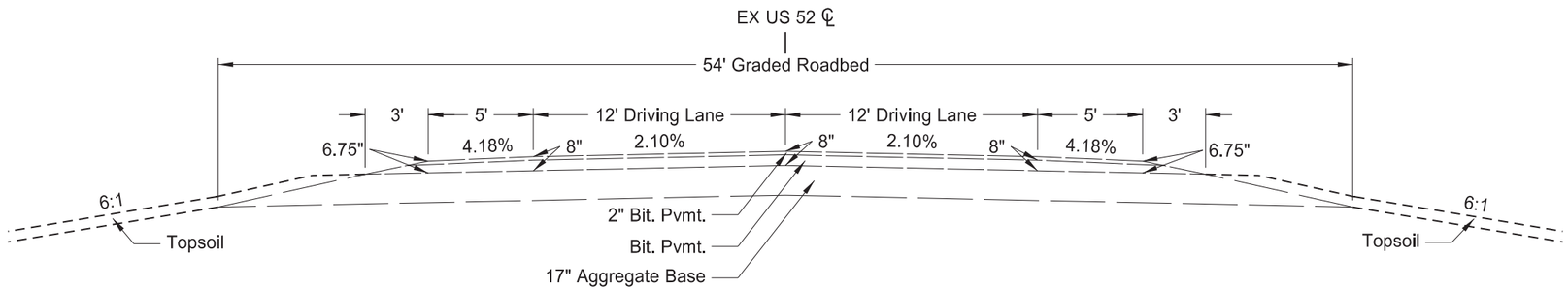
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Delineator Layout

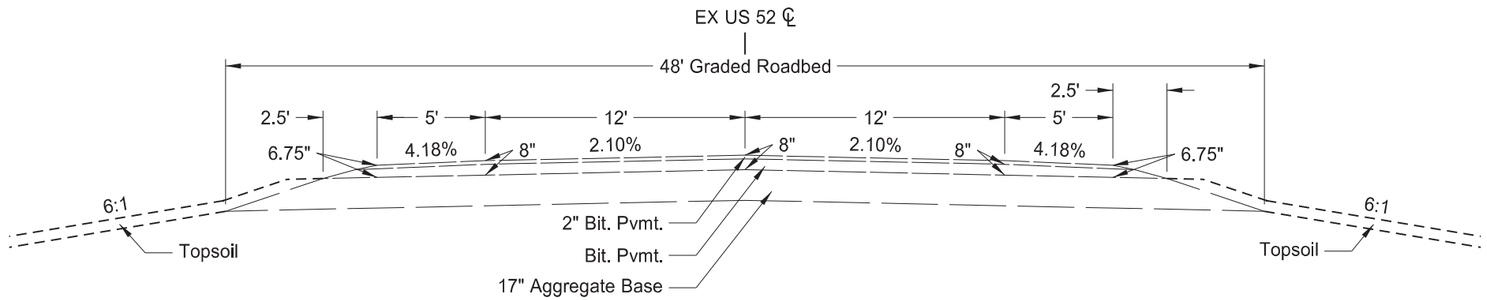
Passing Lanes

US 52

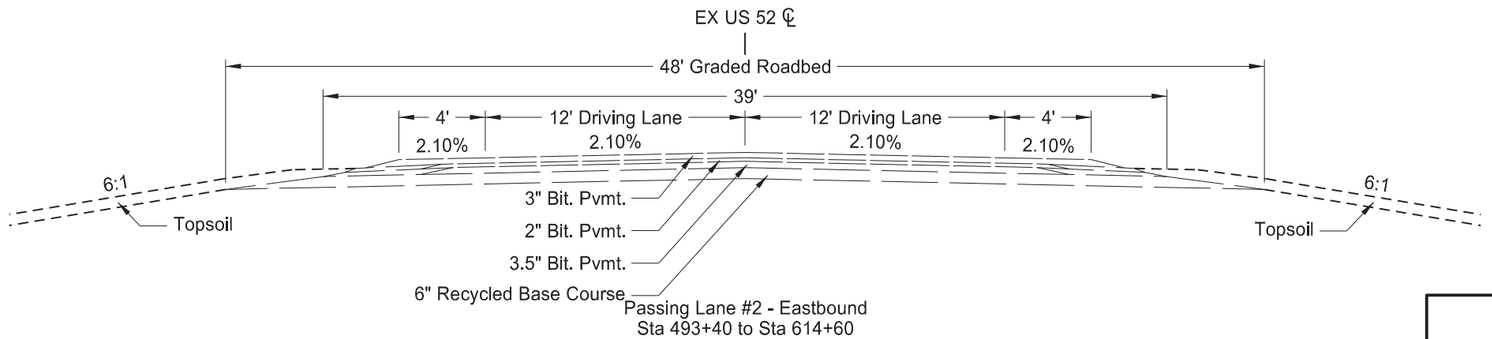
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 1 |




Passing Lane #1 - Westbound
Sta 226+80 to 265+29
Sta 295+13 to 308+15




Passing Lane #1 - Westbound
265+29 to 295+13
308+15 to 347+00



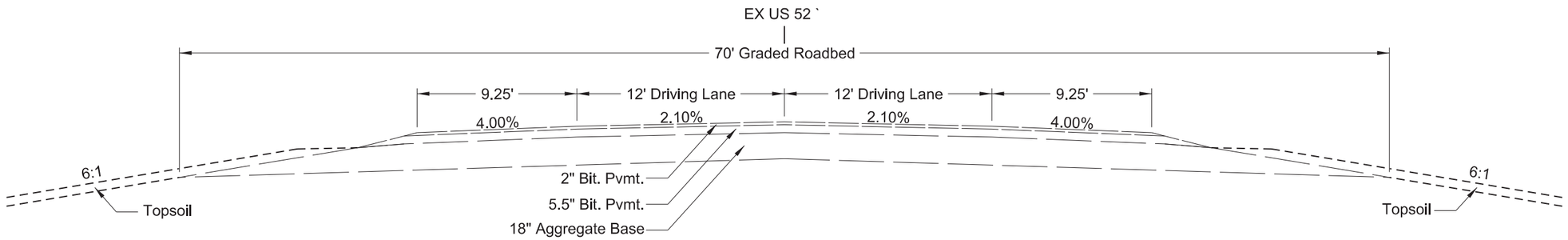

Passing Lane #2 - Eastbound
Sta 493+40 to Sta 614+60

Passing Lane #3 - Westbound
Sta 889+80 to Sta 1011+00

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Existing
Typical Sections

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 2 |




Passing Lane #4 - Eastbound
Sta 1175+00 to Sta 1289+30

Passing Lane #5 - Westbound
Sta 1265+06 to Sta 1377+50

Passing Lane #6 - Eastbound
Sta 1497+80 to Sta 1577+45

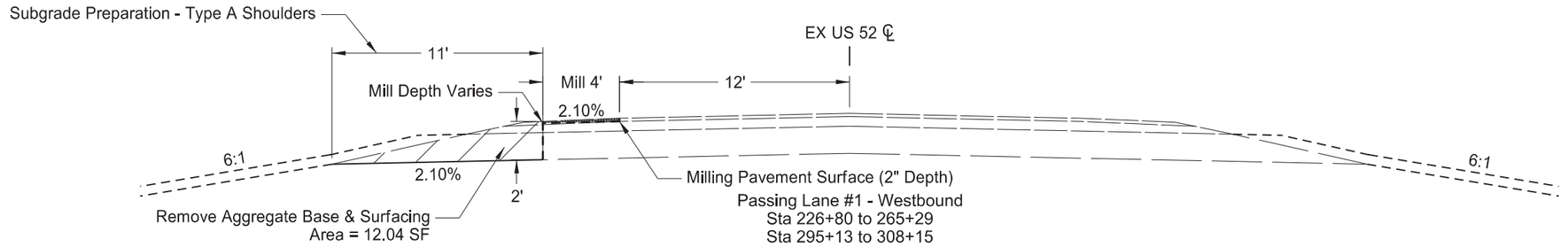
Passing Lane #7 - Westbound
Sta 1590+24 to Sta 1678+94

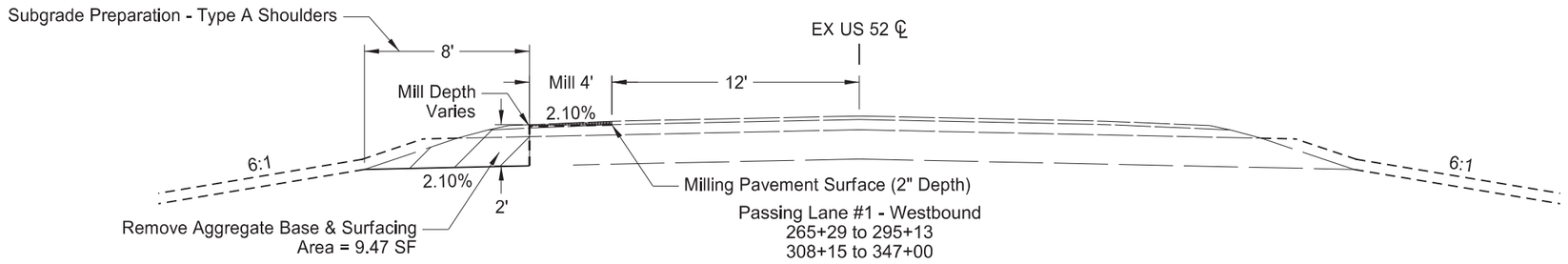
Passing Lane #8 - Eastbound
Sta 1764+94 to Sta 1836+44

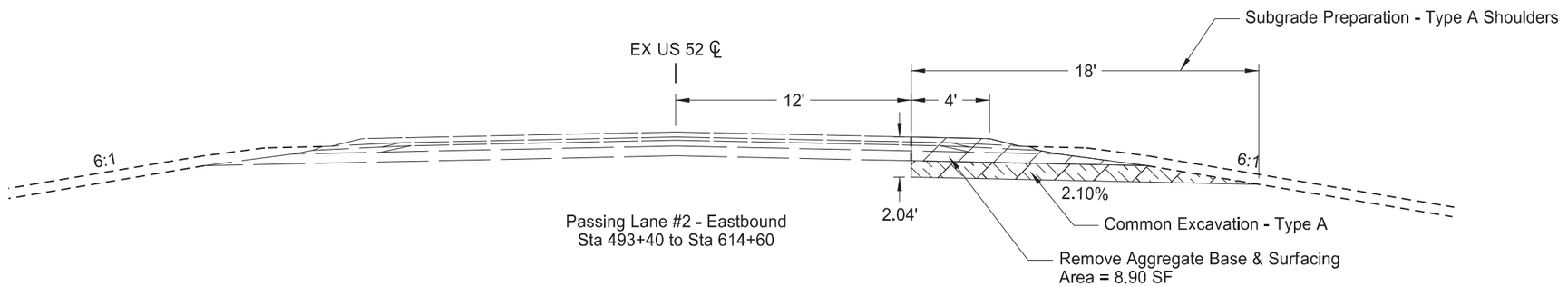
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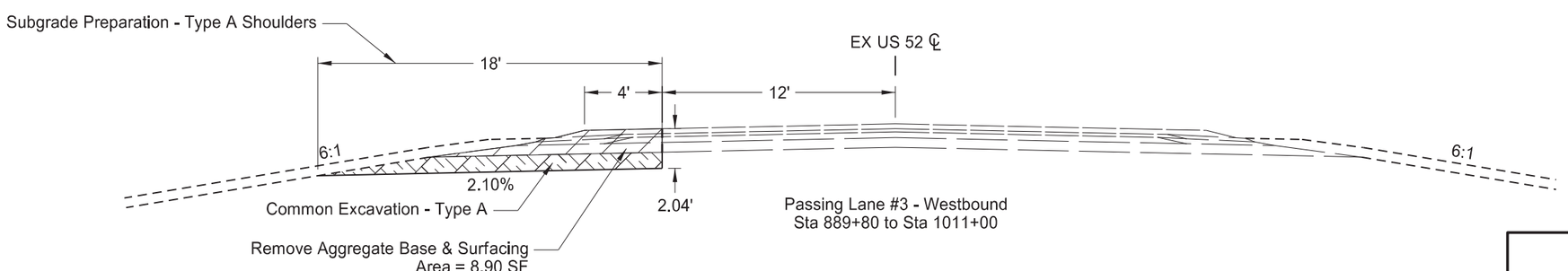
Existing
Typical Sections

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 3 |



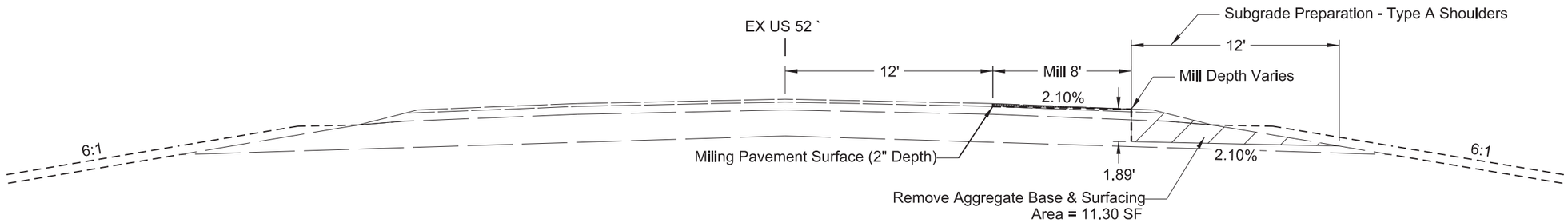




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Removal & Milling
Typical Sections

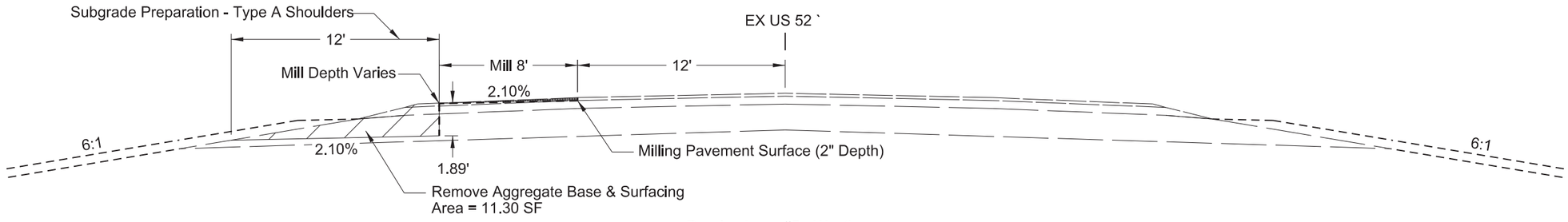
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 4 |




Passing Lane #4 - Eastbound
Sta 1175+00 to Sta 1289+30

Passing Lane #6 - Eastbound
Sta 1497+80 to Sta 1577+45

Passing Lane #8 - Eastbound
Sta 1764+94 to Sta 1836+44



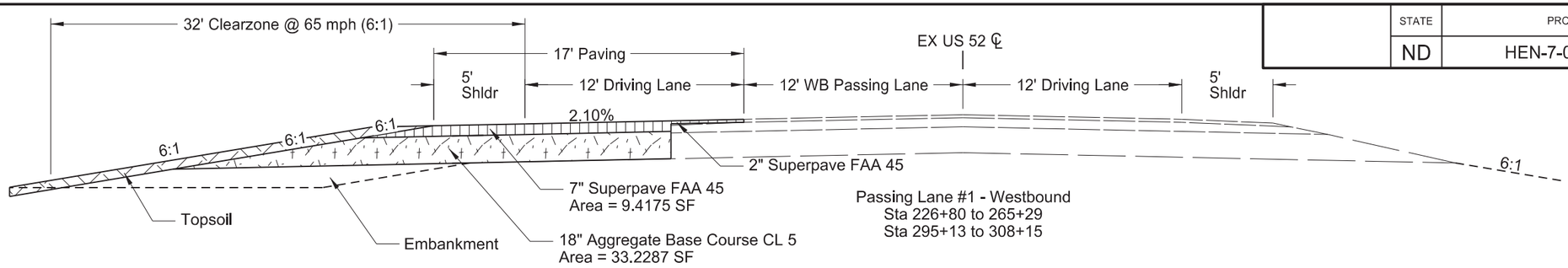

Passing Lane #5 - Westbound
Sta 1265+06 to Sta 1377+50

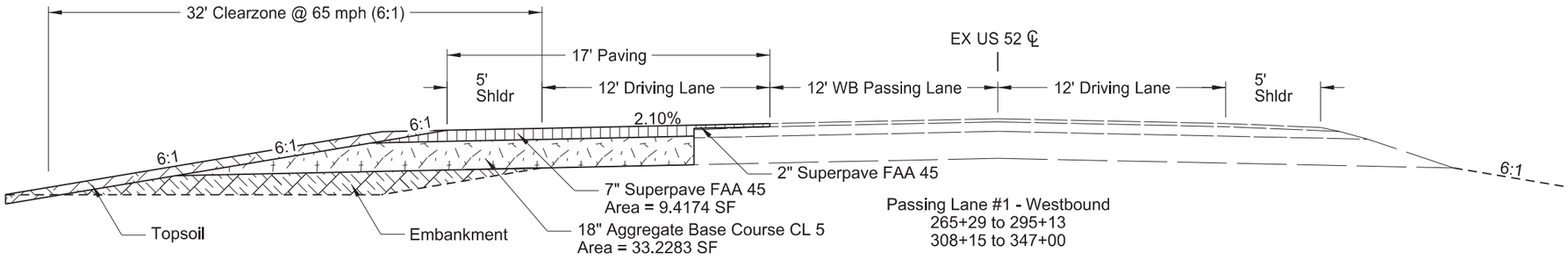
Passing Lane #7 - Westbound
Sta 1590+24 to Sta 1678+94

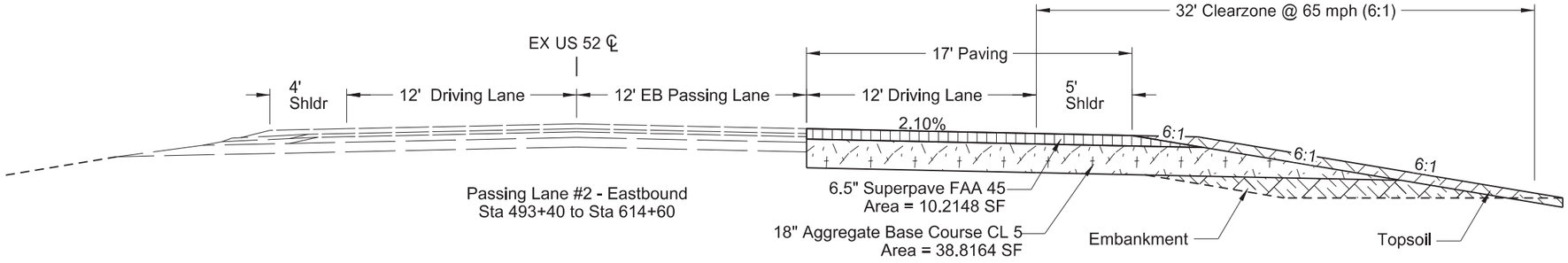
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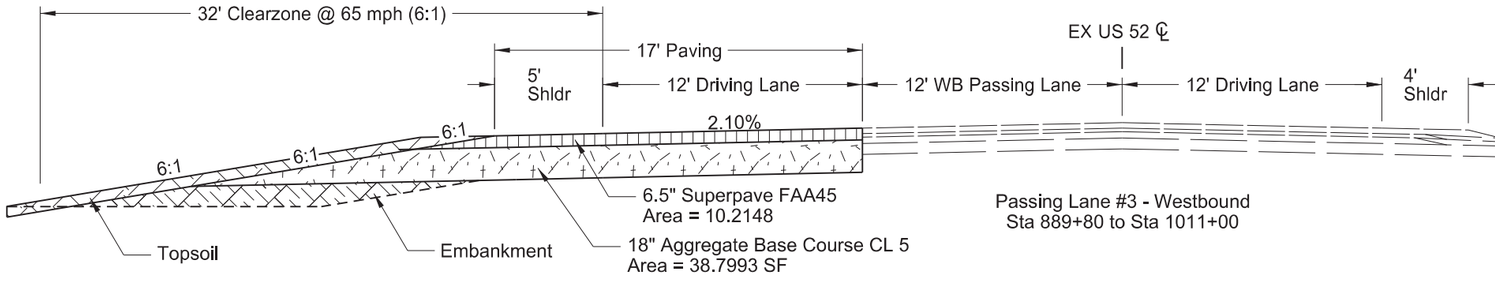
Removal & Milling
Typical Sections

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 5 |



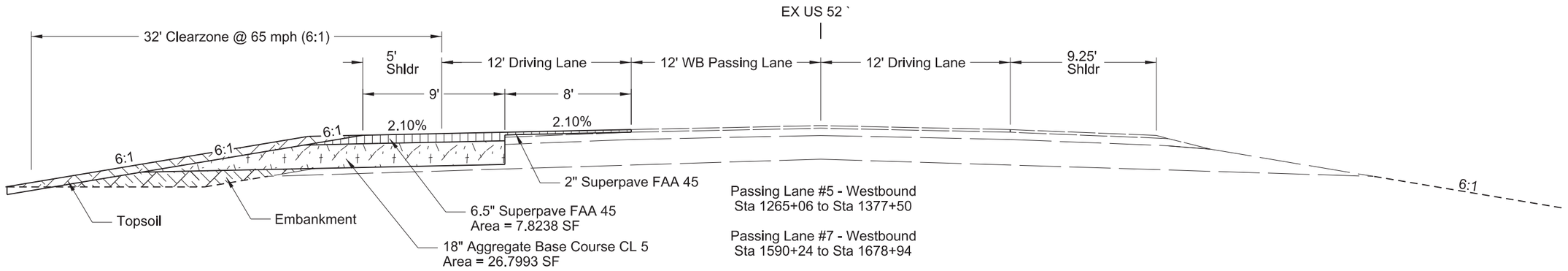



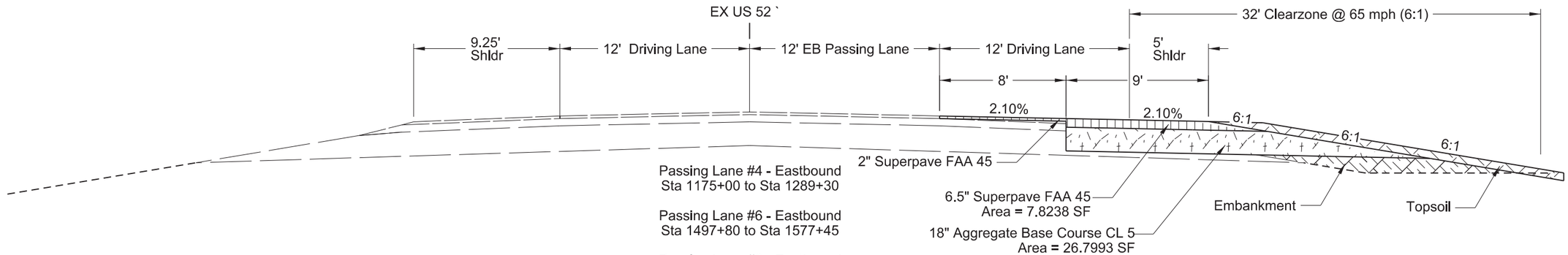




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Proposed
Typical Sections

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 6 |

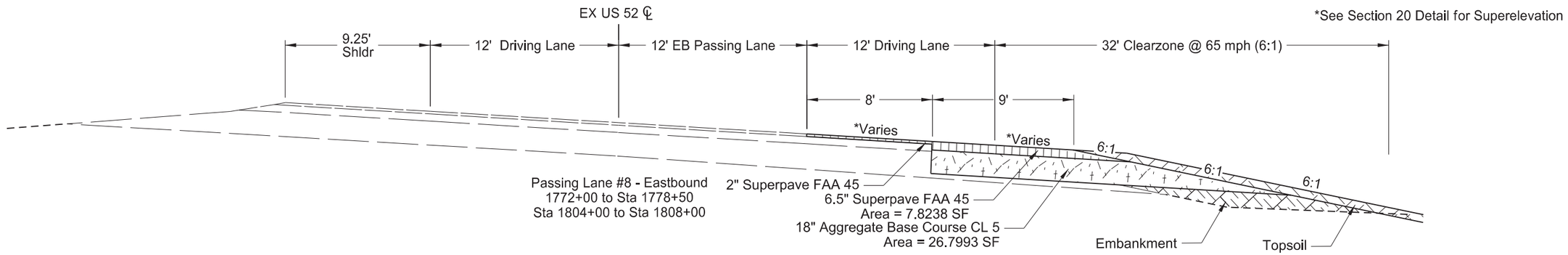


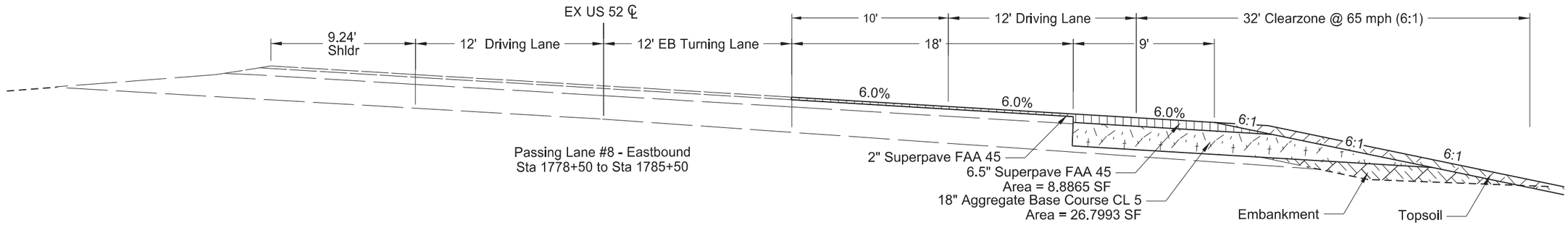

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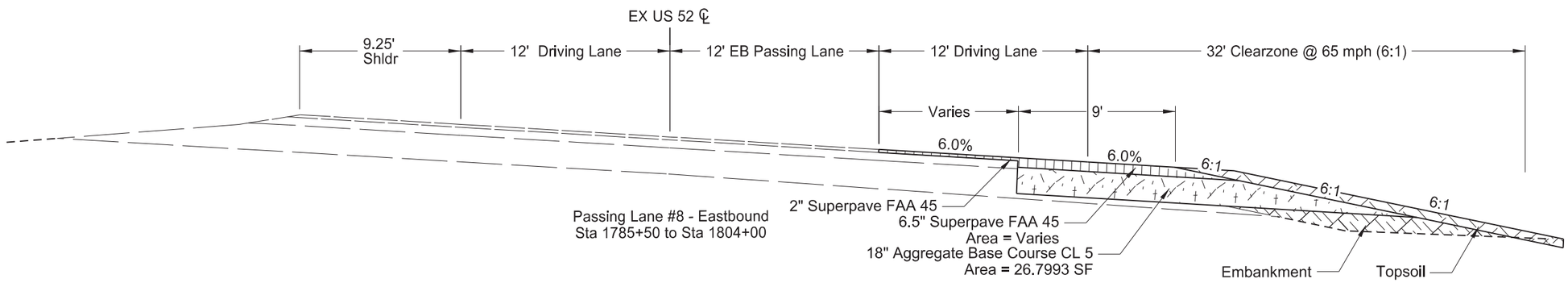
Proposed
Typical Sections

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 30 | 7 |




*See Section 20 Detail for Superelevation

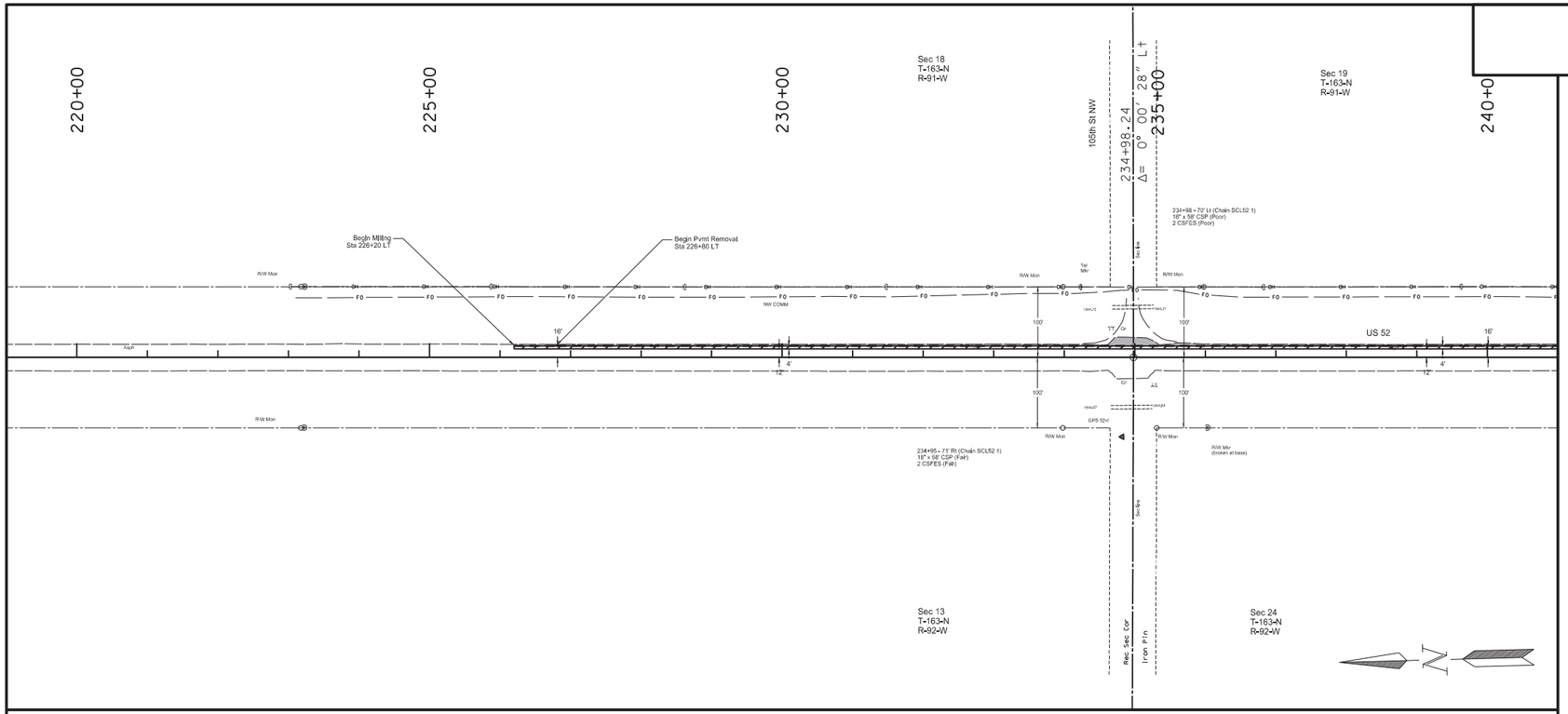


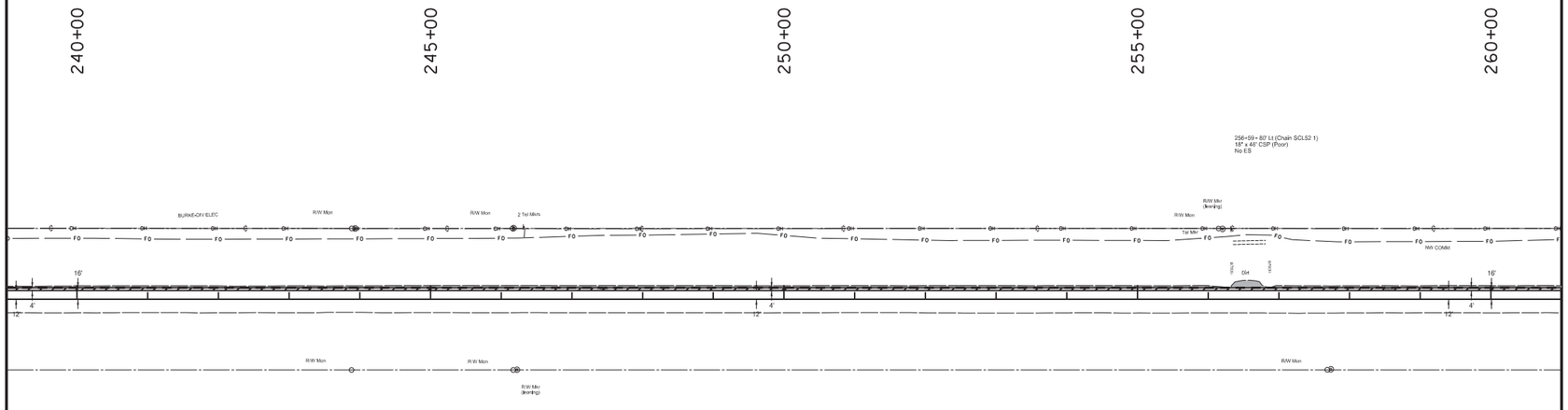



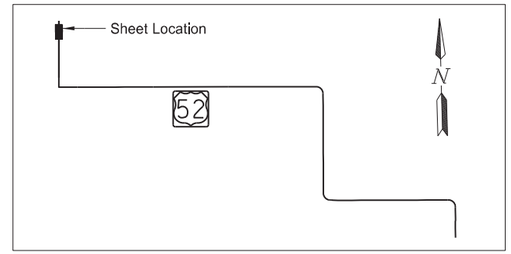

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Proposed
Typical Sections

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 1 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| **202** | **0021** | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 226+80 to 260+00 LT | | |
| | | Bituminous Pavement | **343** | TON |
| | | Aggregate Base | **2298** | TON |
| | | Approach | | |
| | | Sta 234+97 LT | **22** | TON |
| | | Sta 256+57 LT | **13** | TON |
| **411** | **0100** | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 226+20 to 260+00 LT | **125** | TON |

Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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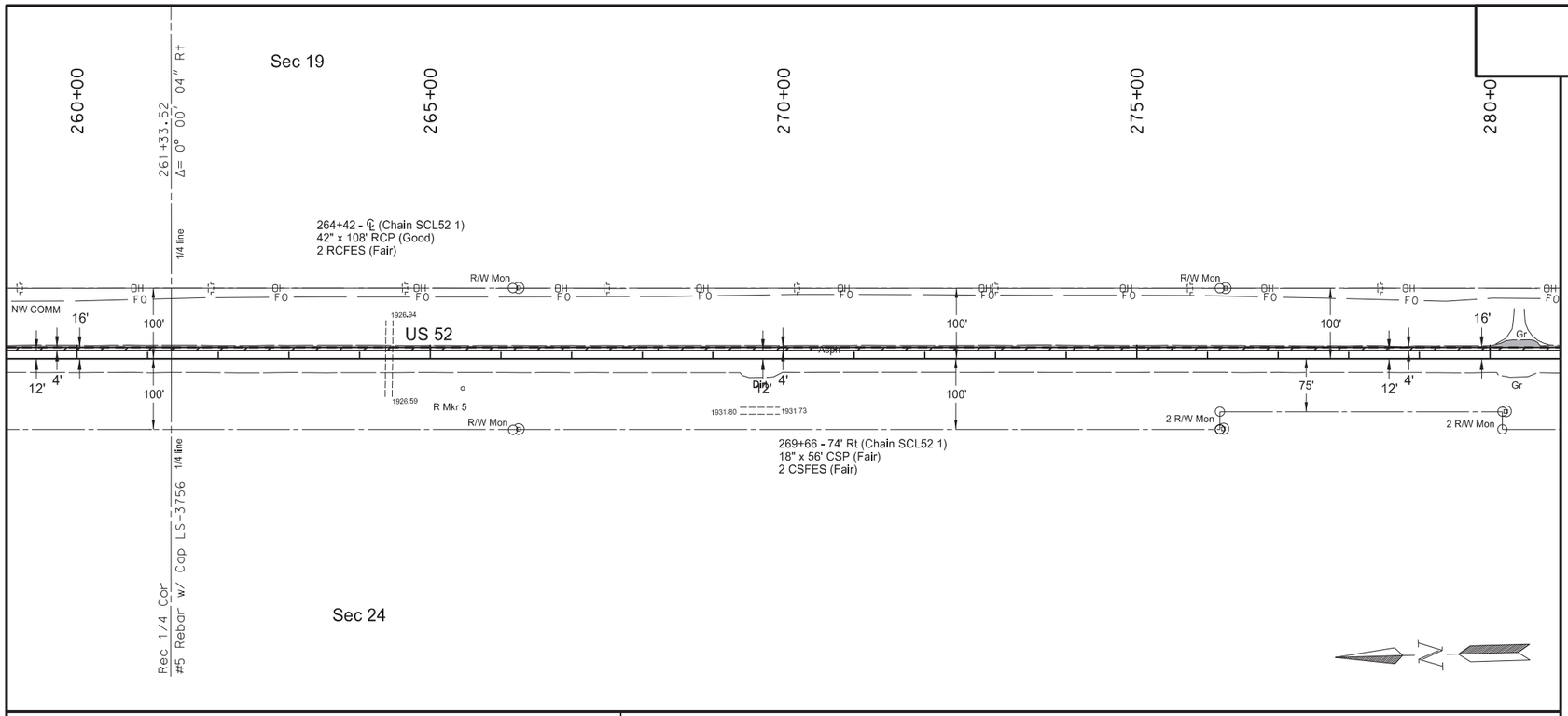
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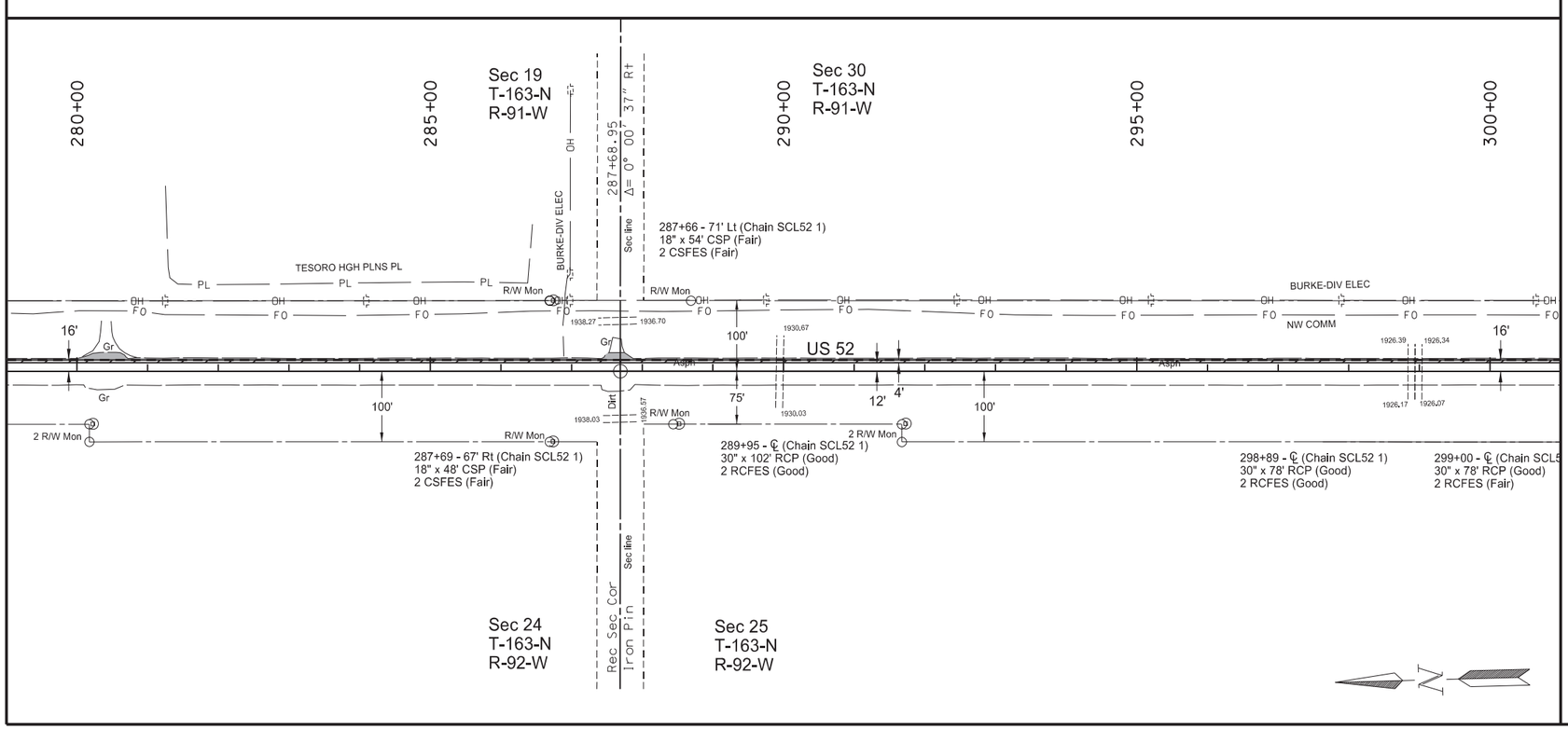
Removals

Passing Lane #1

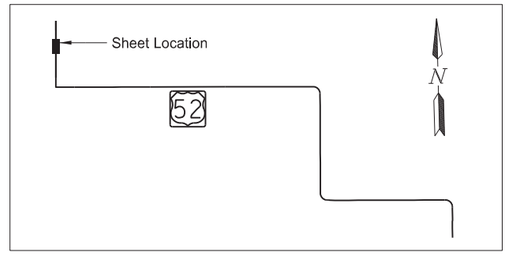
Sta 220+00 to Sta 260+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 2 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 260+00 to 300+00 LT | | |
| | | Bituminous Pavement | **395** | TON |
| | | Aggregate Base | **2346** | TON |
| | | Approach | | |
| | | Sta 280+44 LT | **17** | TON |
| | | Sta 287+63 LT | **11** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 260+00 to 300+00 LT | **148** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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NORTH DAKOTA

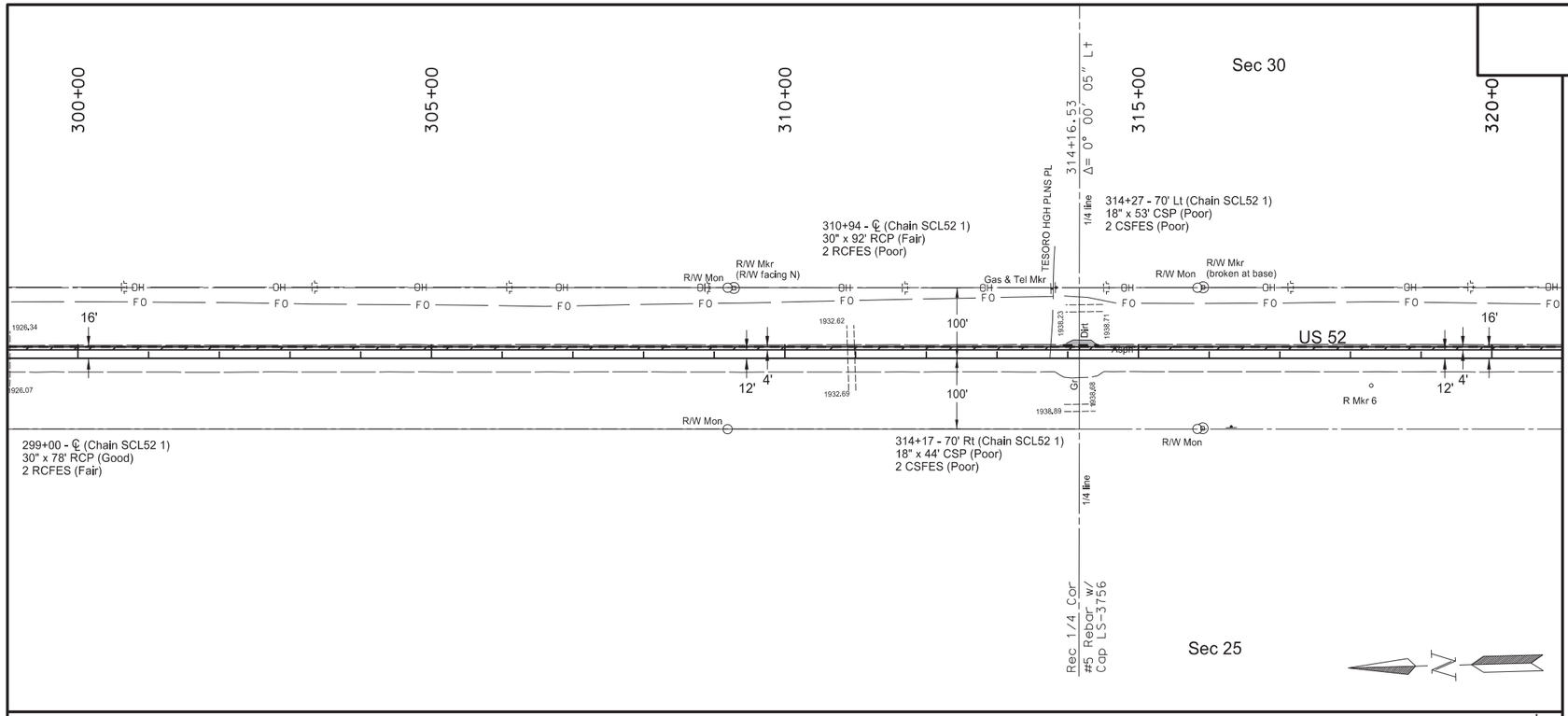
09/01/23

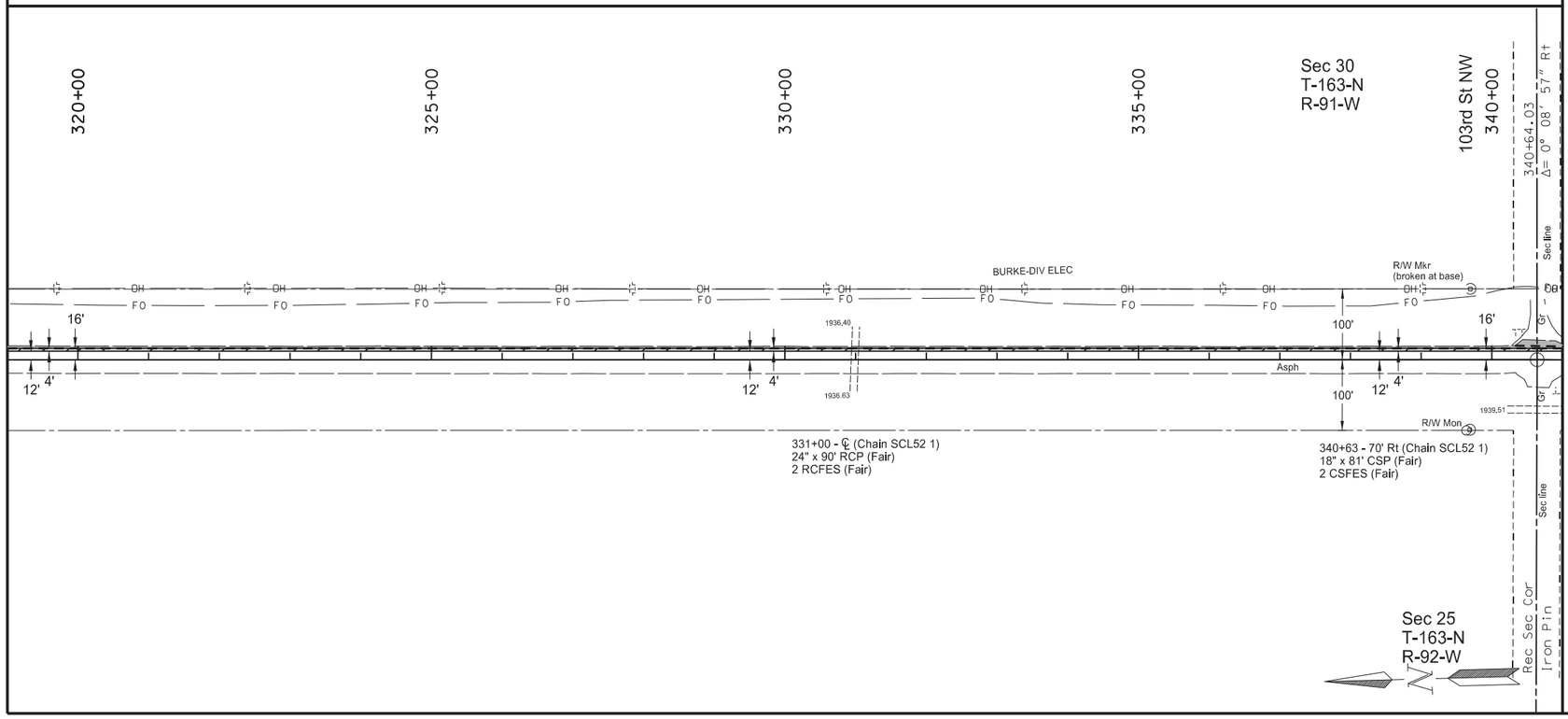
Removals

Passing Lane #1

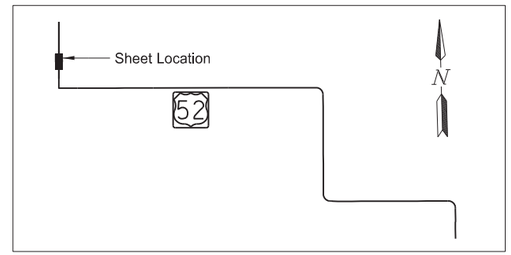
Sta 260+00 to Sta 300+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 3 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 300+00 to 340+00 LT | | |
| | | Bituminous Pavement | 397 | TON |
| | | Aggregate Base | 2402 | TON |
| | | Approach | | |
| | | Sta 314+20 LT | 10 | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 300+00 to 340+00 LT | 148 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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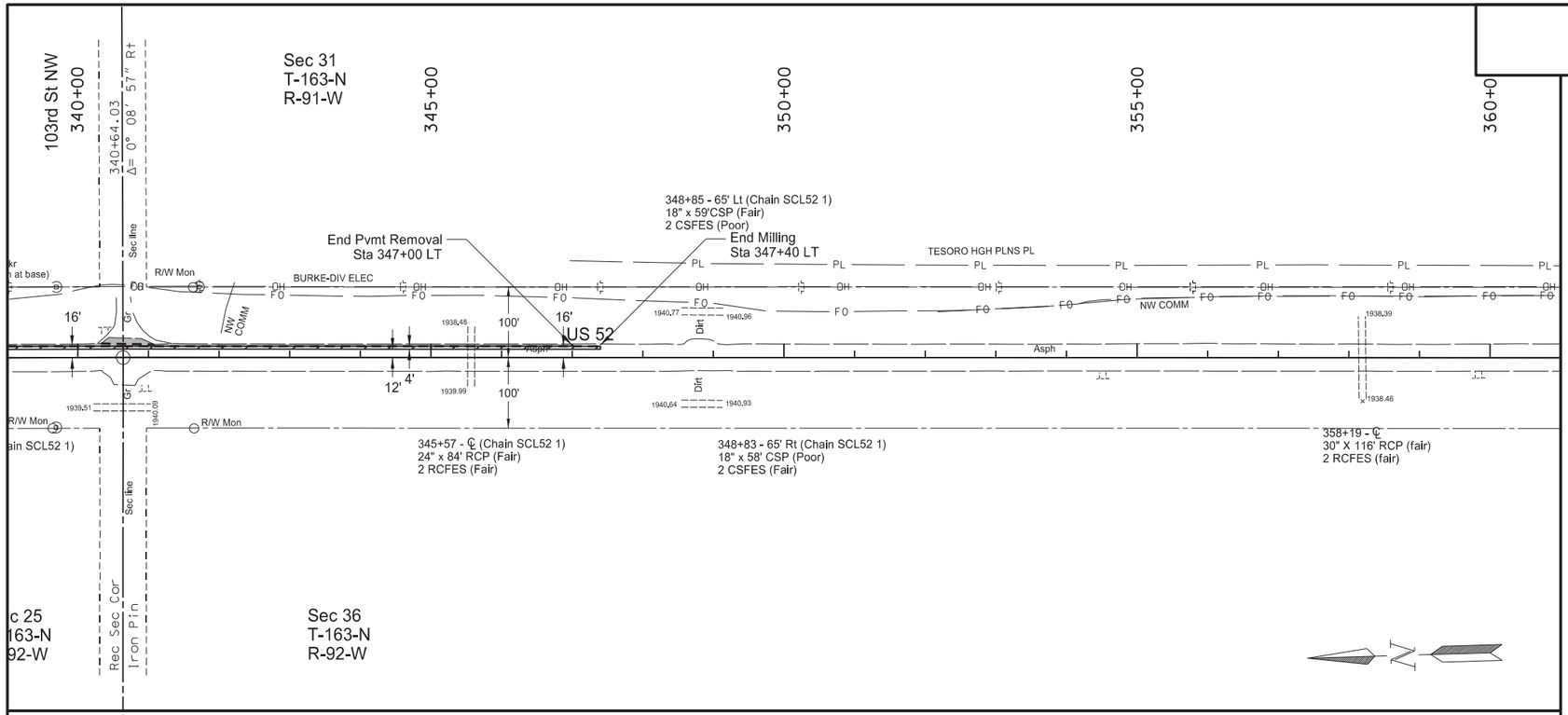
09/01/23

Removals

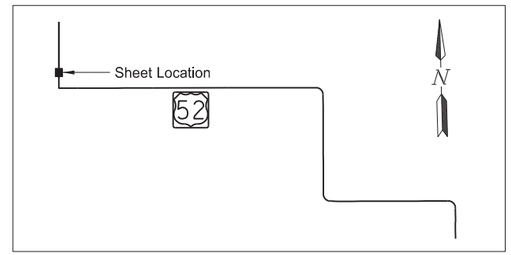
Passing Lane #1

Sta 300+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 4 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| **202** | **0021** | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 340+00 to 347+00 LT | | |
| | | Bituminous Pavement | **69** | TON |
| | | Aggregate Base | **396** | TON |
| | | Approach | | |
| | | Sta 340+65 LT | **19** | TON |
| **411** | **0100** | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 340+00 to 347+40 LT | **27** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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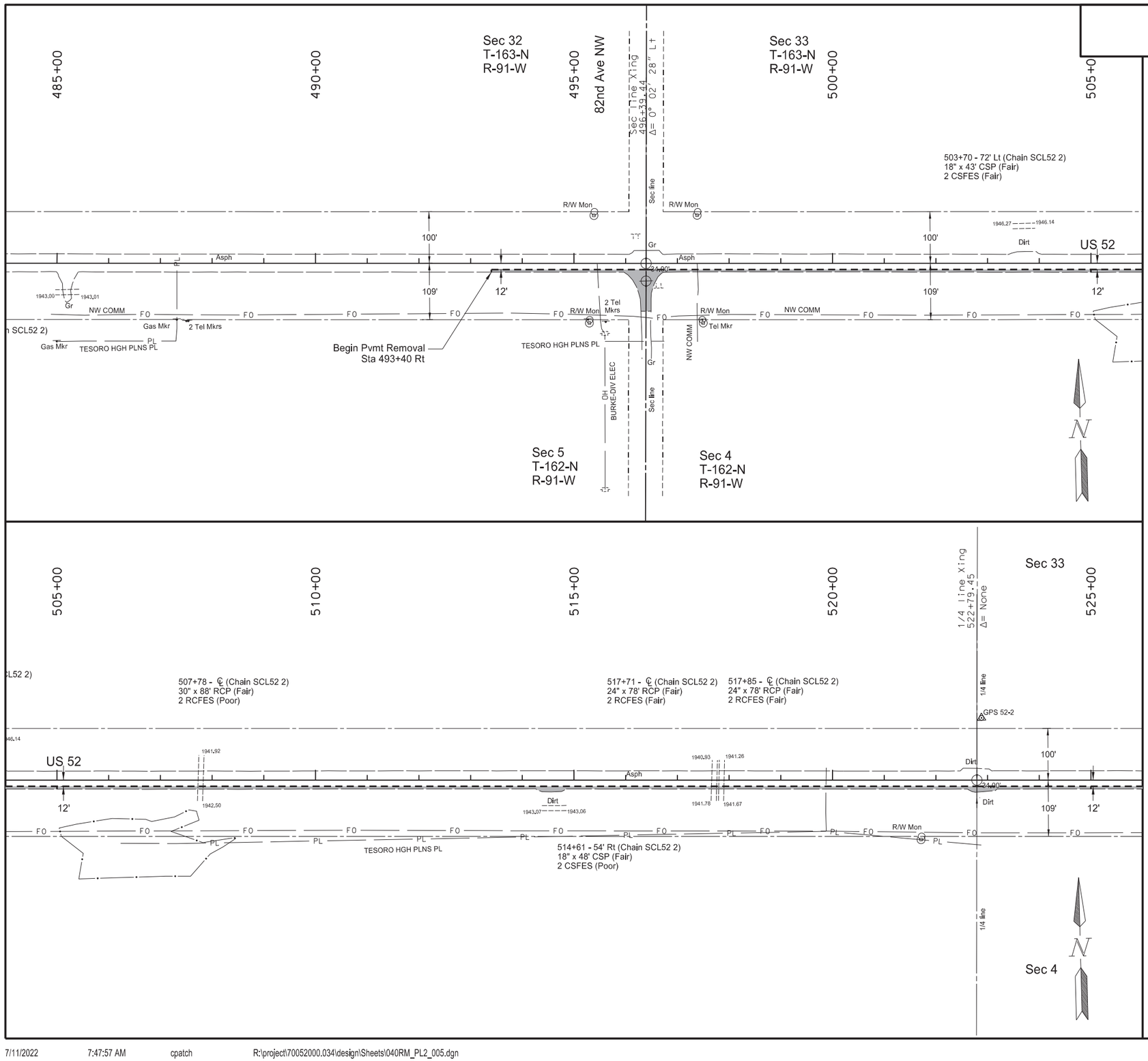
Removals

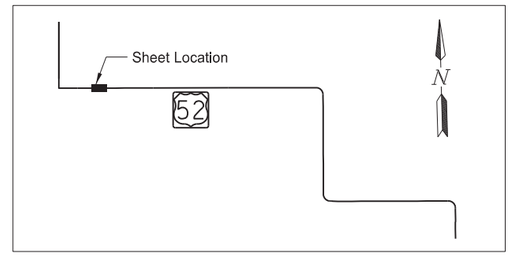
Passing Lane #1

Sta 340+00 to Sta 360+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 5 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 493+40 to 525+00 RT | | |
| | | Bituminous Pavement | 555 | TON |
| | | Aggregate Base | 1433 | TON |
| | | Approach | | |
| | | Sta 496+38 RT | 96 | TON |
| | | Sta 514+60 RT | 10 | TON |
| | | Sta 522+87 RT | 9 | TON |




Legend

Remove Aggregate Base & Surfacing

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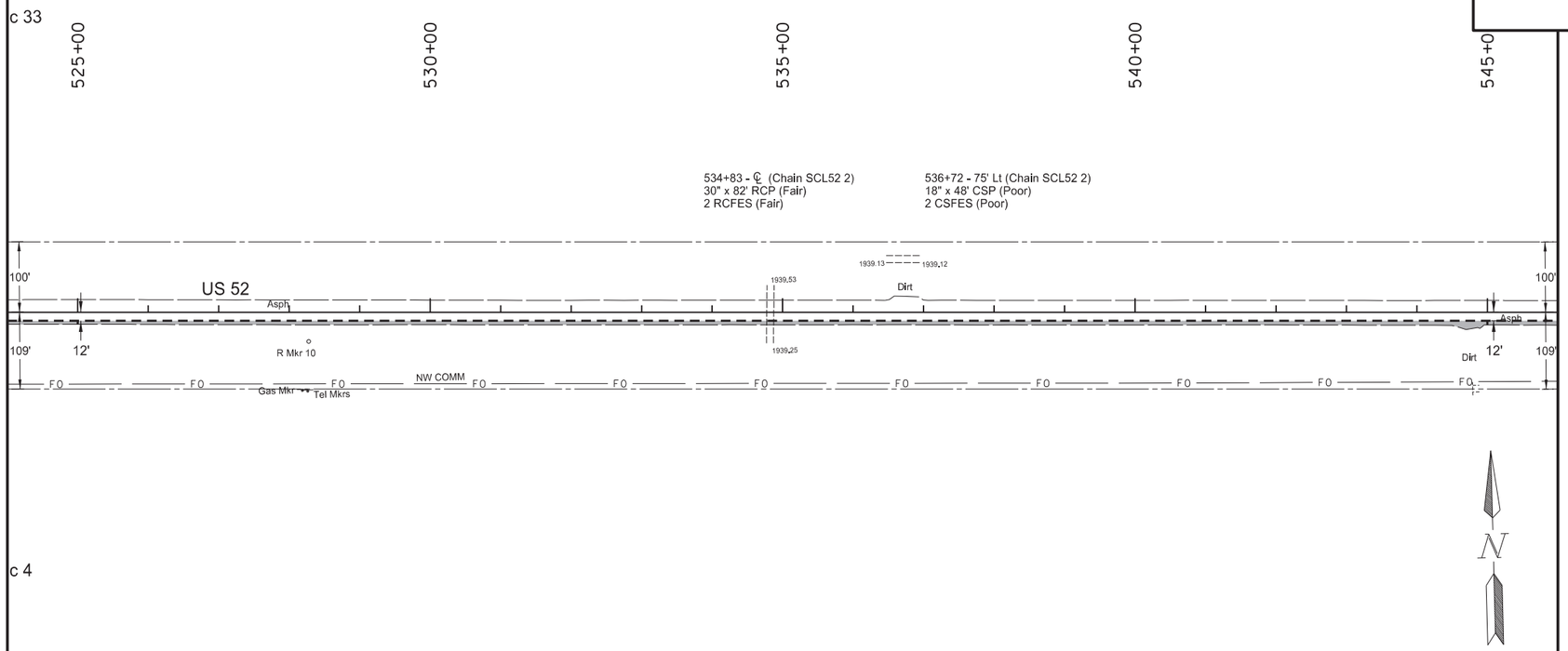
Removals

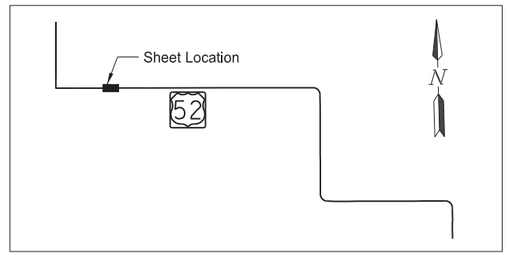
Passing Lane #2

Sta 485+00 to Sta 525+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 6 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 525+00 to 565+00 RT | | |
| | | Bituminous Pavement | **703** | TON |
| | | Aggregate Base | **1814** | TON |
| | | Approach | | |
| | | Sta 549+23 RT | **76** | TON |
| | | Sta 544+73 RT | **6** | TON |
| | | Sta 563+73 RT | **12** | TON |




Legend

Remove Aggregate Base & Surfacing

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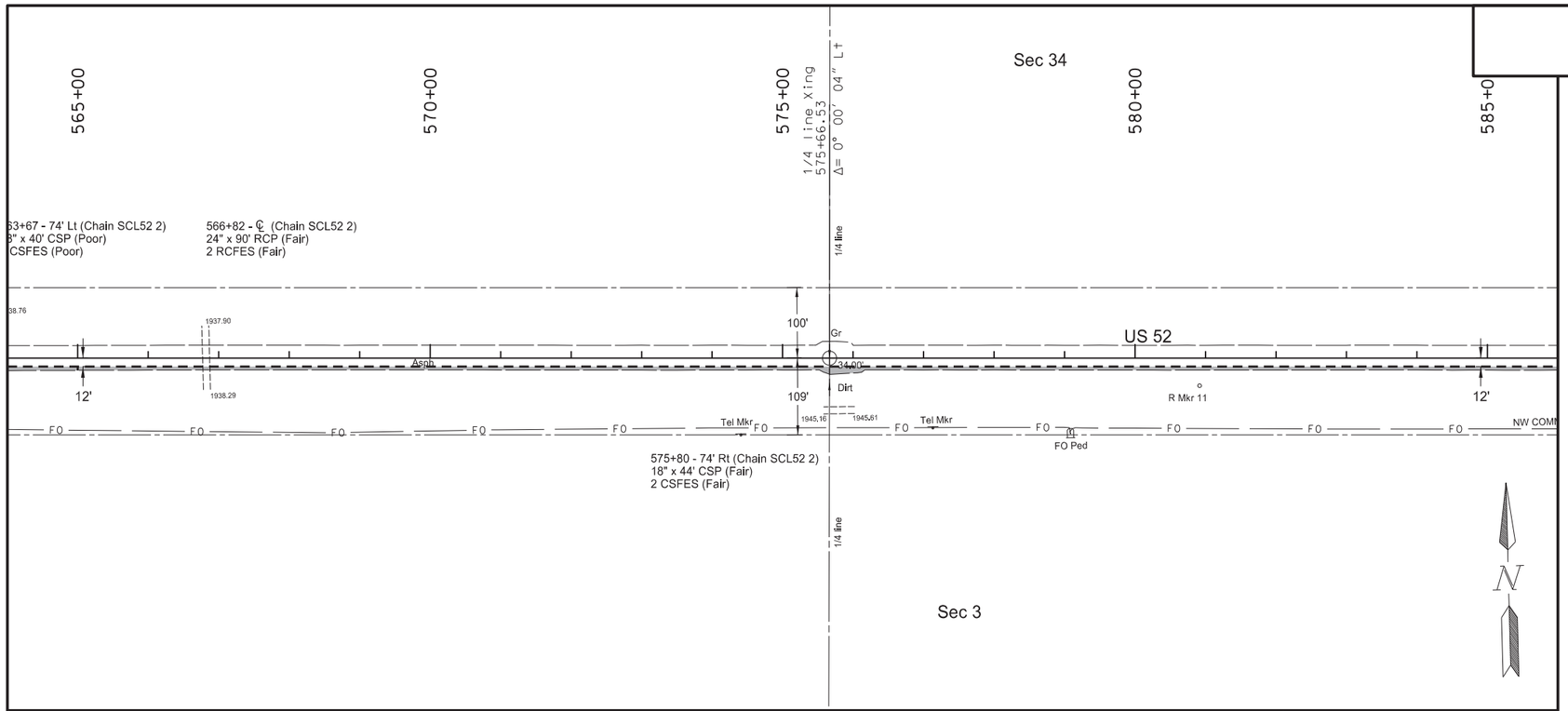
Removals

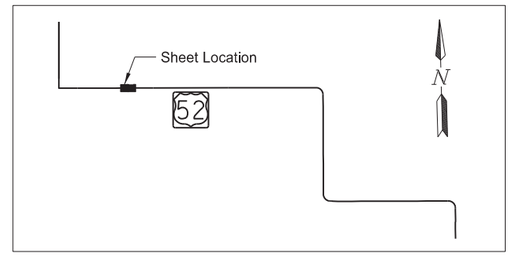
Passing Lane #2

Sta 525+00 to Sta 565+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 7 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 565+00 to 605+00 RT | | |
| | | Bituminous Pavement | **703** | TON |
| | | Aggregate Base | **1814** | TON |
| | | Approach | | |
| | | Sta 575+80 RT | **11** | TON |
| | | Sta 602+09 RT | **112** | TON |




Legend

Remove Aggregate Base & Surfacing

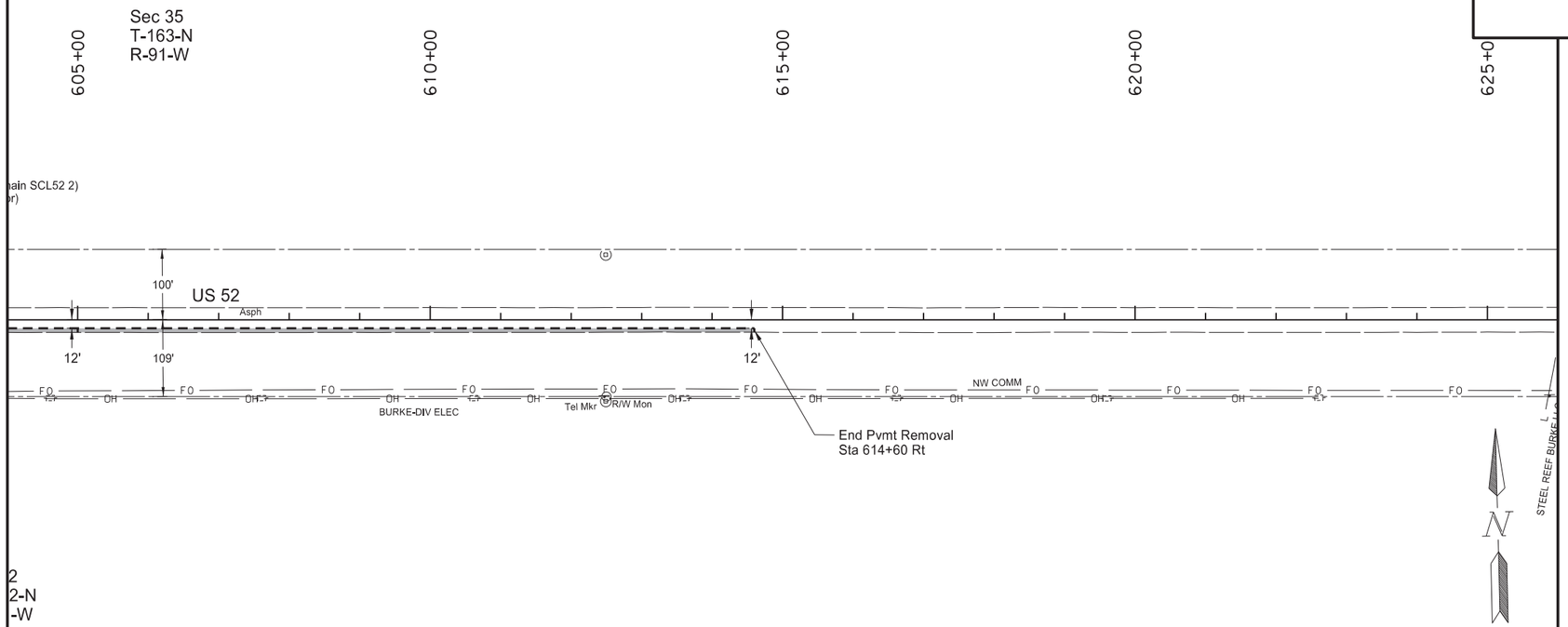
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NORTH DAKOTA
09/01/23

Removals

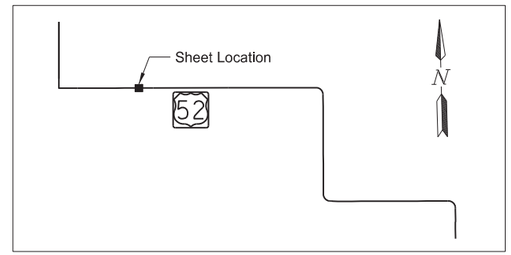
Passing Lane #2

Sta 565+00 to Sta 605+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 8 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 605+00 to 614+60 RT | | |
| | | Bituminous Pavement | 169 | TON |
| | | Aggregate Base | 435 | TON |




Legend

Remove Aggregate Base & Surfacing

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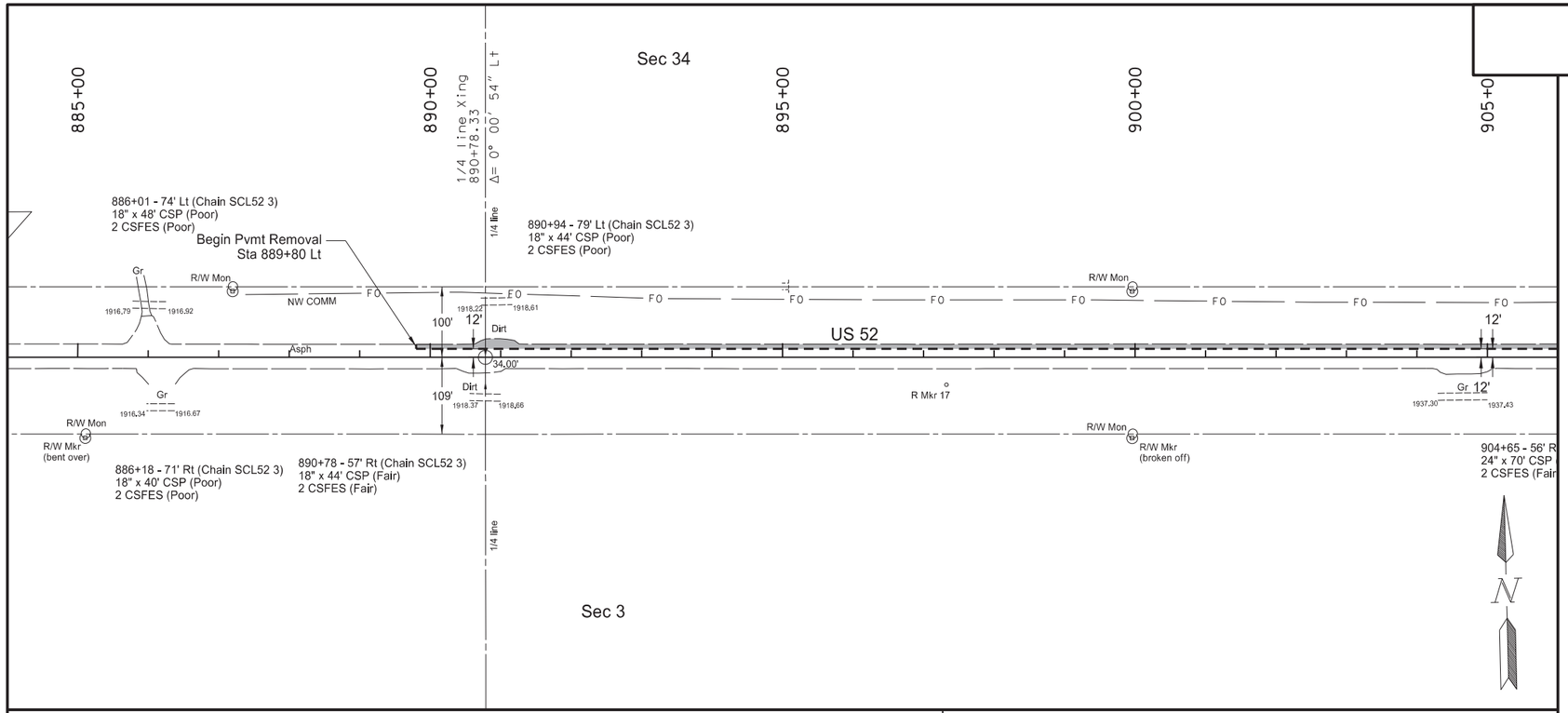
Removals

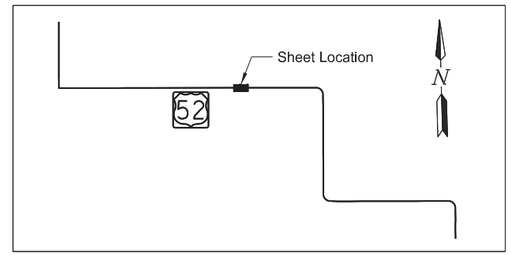
Passing Lane #2

Sta 605+00 to Sta 625+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 9 |

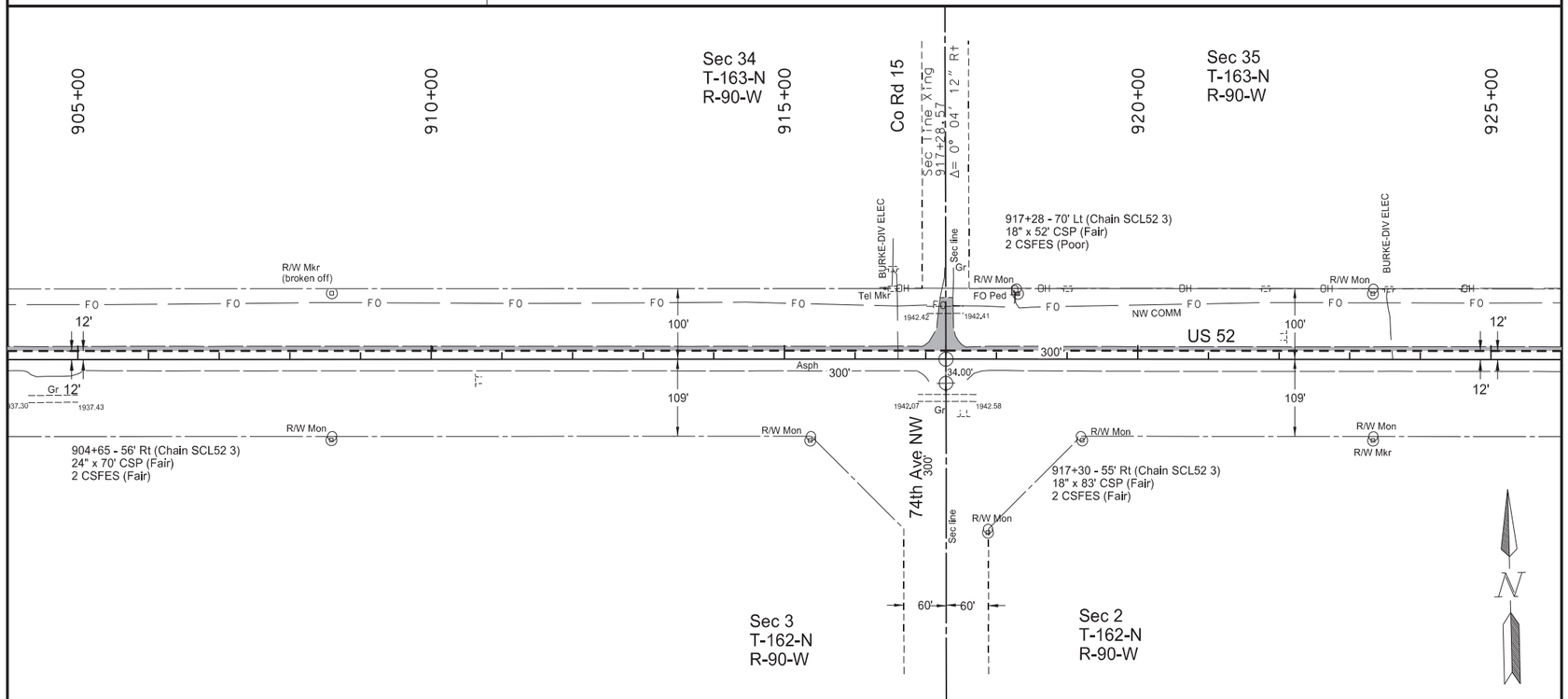
| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 889+80 to 925+00 LT | | |
| | | Bituminous Pavement | 618 | TON |
| | | Aggregate Base | 1611 | TON |
| | | | | |
| | | Approach | | |
| | | Sta 890+94 LT | 14 | TON |
| | | Sta 917+28 LT | 73 | TON |




Legend

Remove Aggregate Base & Surfacing




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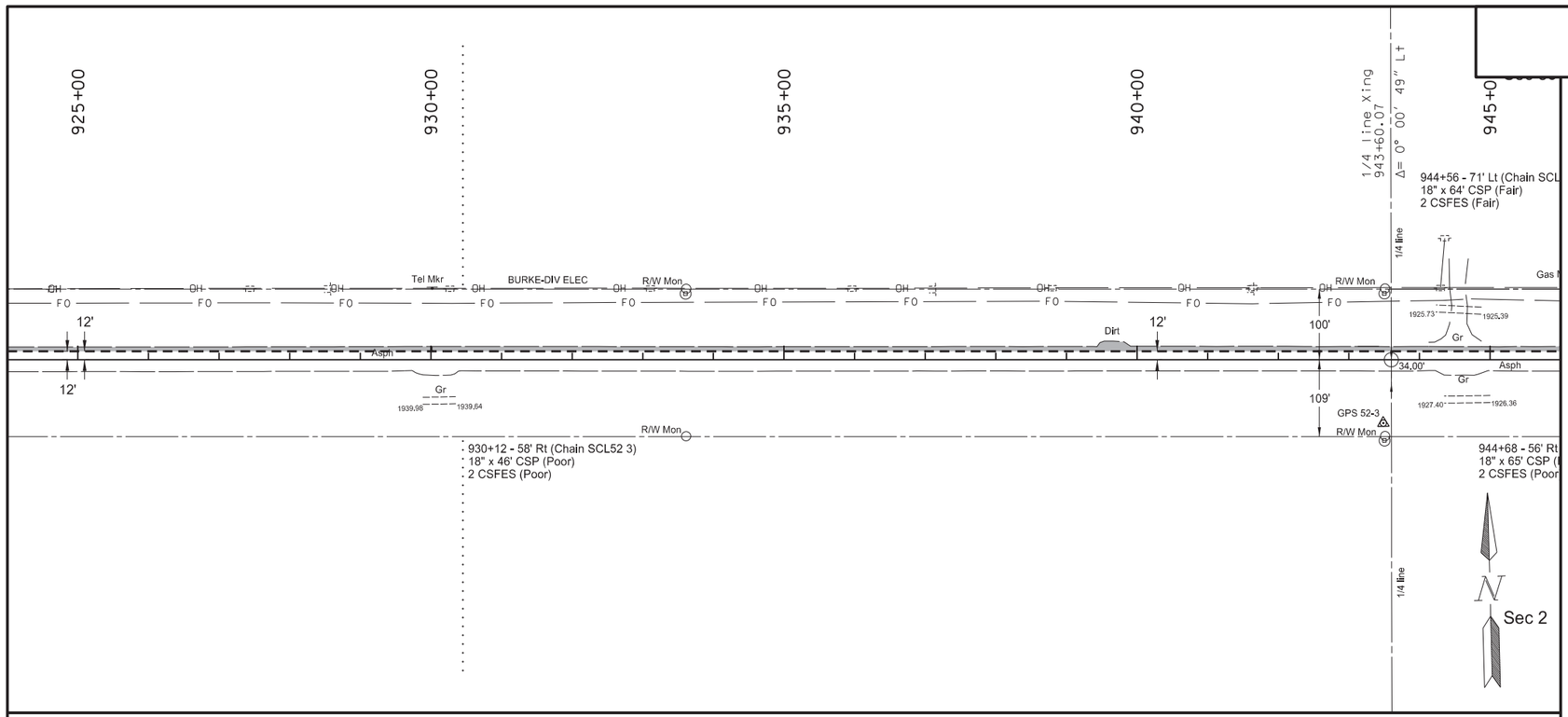
Removals

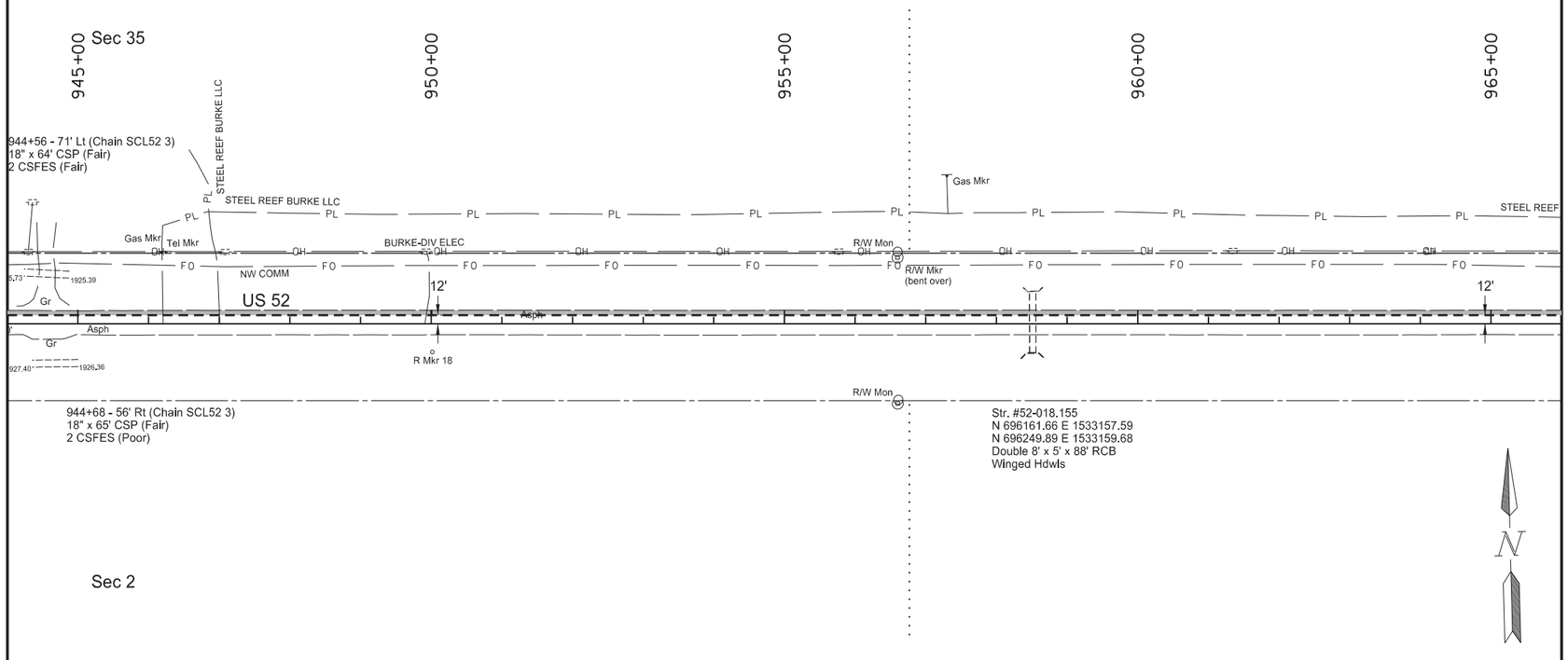
Passing Lane #3

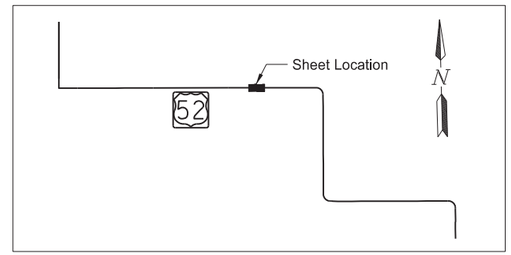
Sta 885+00 to Sta 925+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 10 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 925+00 to 965+00 LT | | |
| | | Bituminous Pavement | 703 | TON |
| | | Aggregate Base | 1814 | TON |
| | | Approach | | |
| | | Sta 939+65 LT | 11 | TON |
| | | Sta 944+57 LT | 11 | TON |




Legend

Remove Aggregate Base & Surfacing

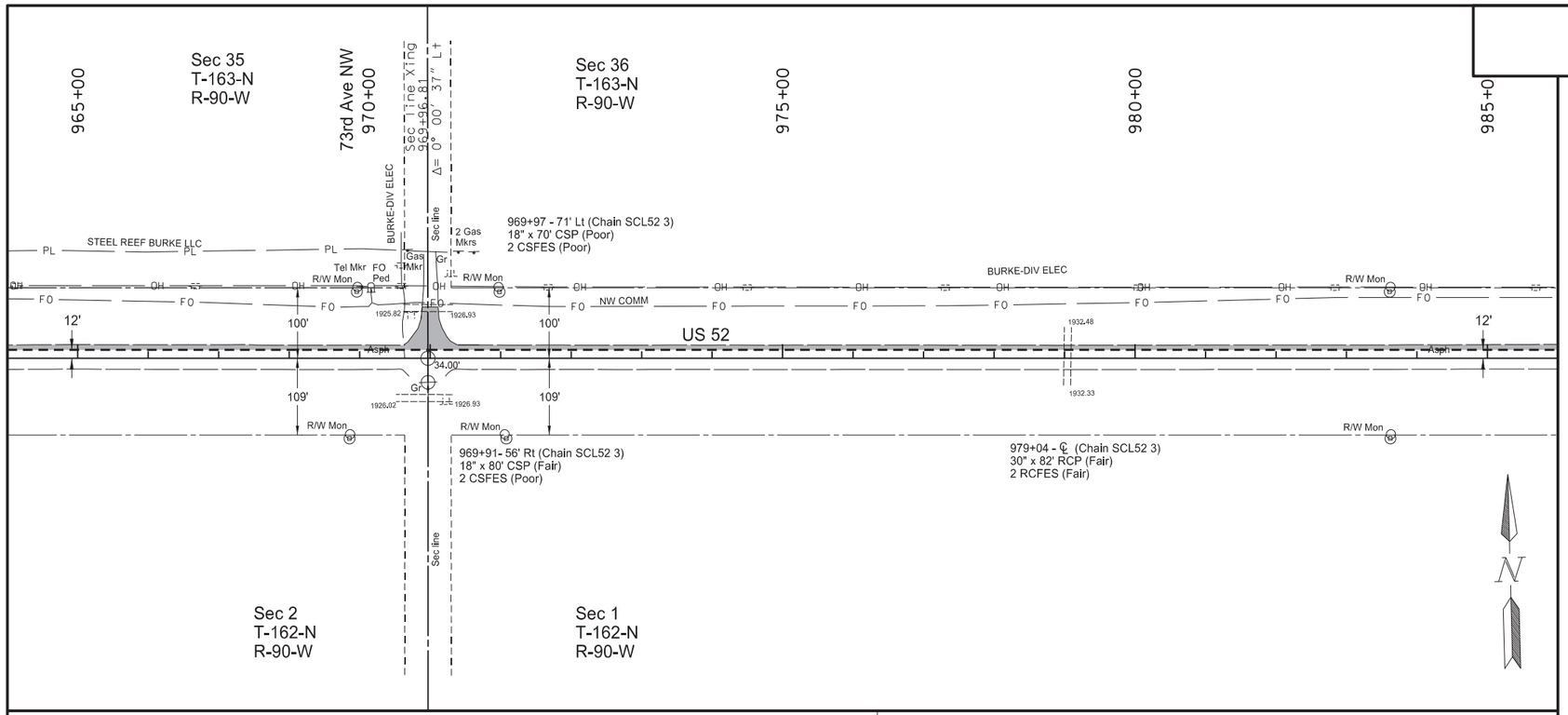
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09/01/23

Removals

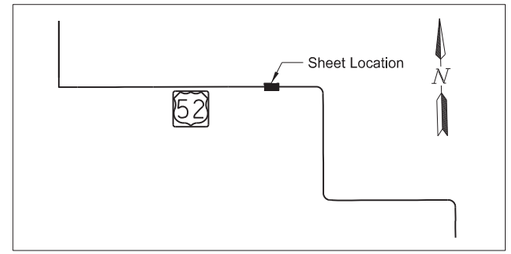
Passing Lane #3

Sta 925+00 to Sta 965+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 11 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 965+00 to 1005+00 LT | | |
| | | Bituminous Pavement | **703** | TON |
| | | Aggregate Base | **1814** | TON |
| | | Approach | | |
| | | Sta 970+00 LT | **78** | TON |
| | | Sta 996+32 LT | **6** | |




Legend

Remove Aggregate Base & Surfacing

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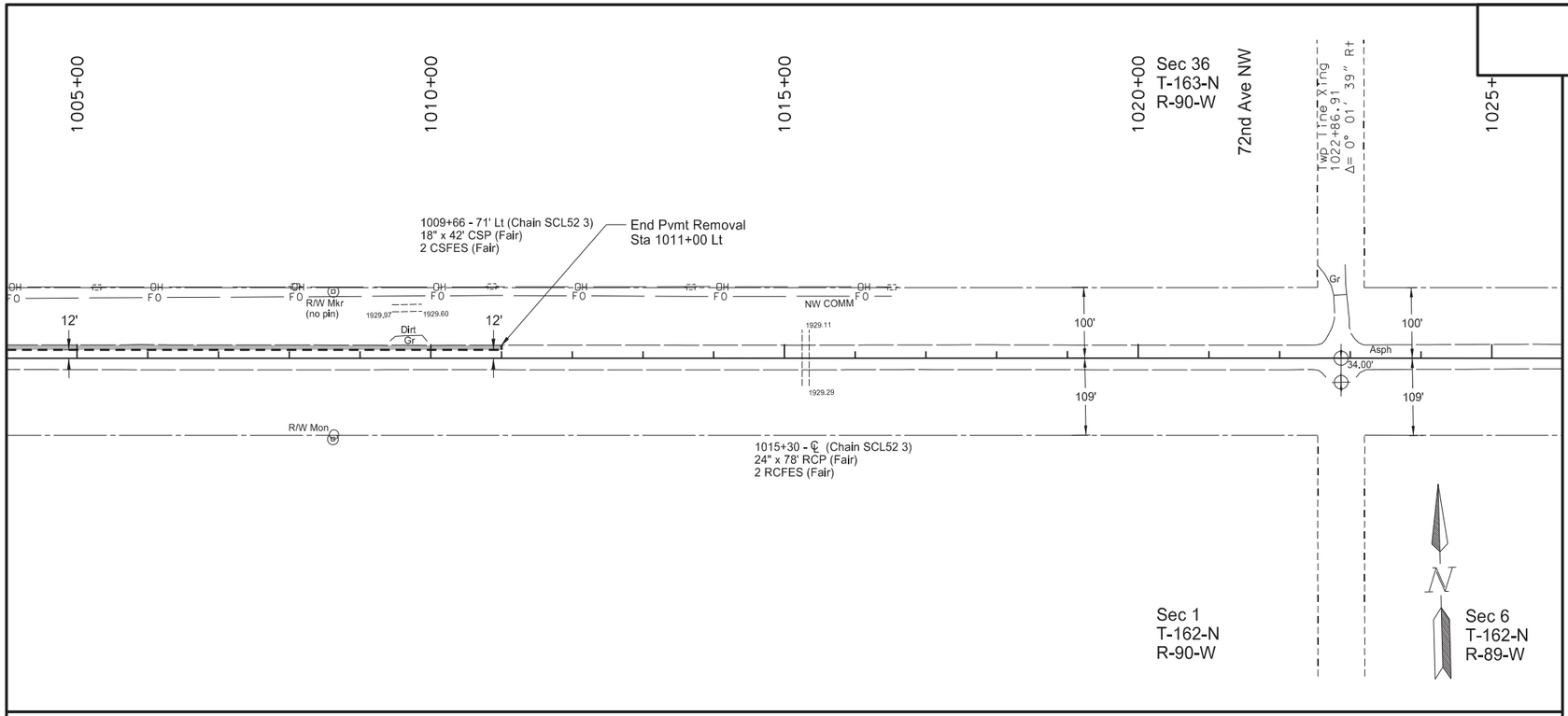
Removals

Passing Lane #3

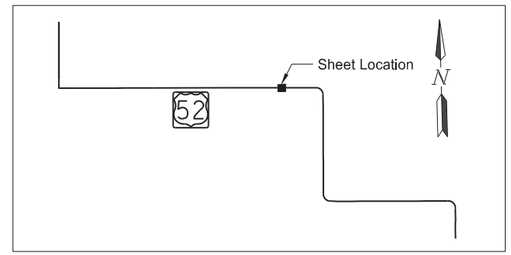
Sta 965+00 to Sta 1005+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 12 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 1005+00 to 1011+00 LT | | |
| | | Bituminous Pavement | 105 | TON |
| | | Aggregate Base | 272 | TON |
| | | Approach | | |
| | | Sta 1009+65 LT | 6 | TON |




Legend

Remove Aggregate Base & Surfacing

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09/01/23

Removals

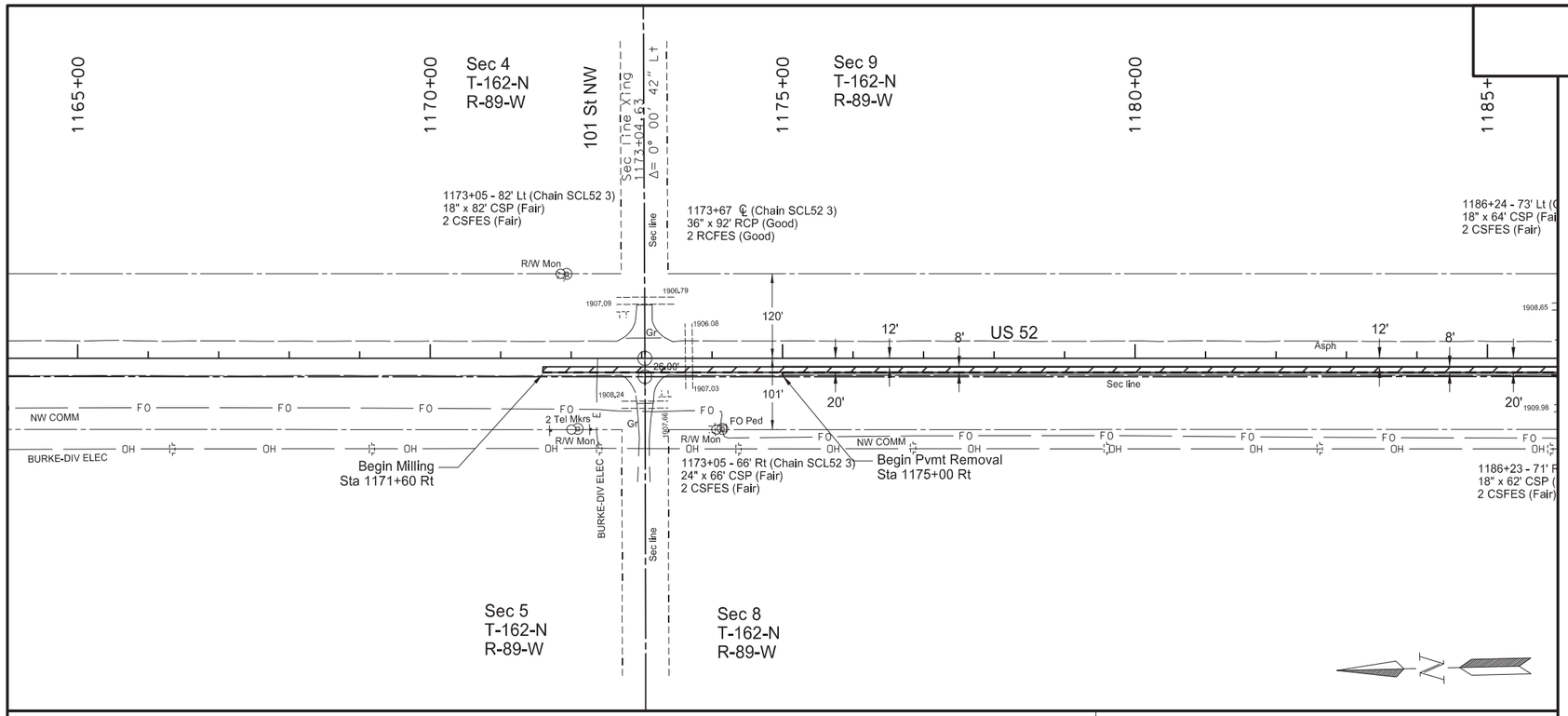
Passing Lane #3

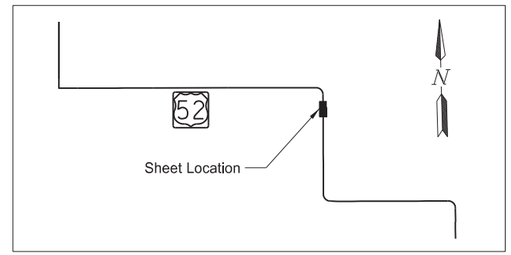
Sta 1005+00 to Sta 1025+00

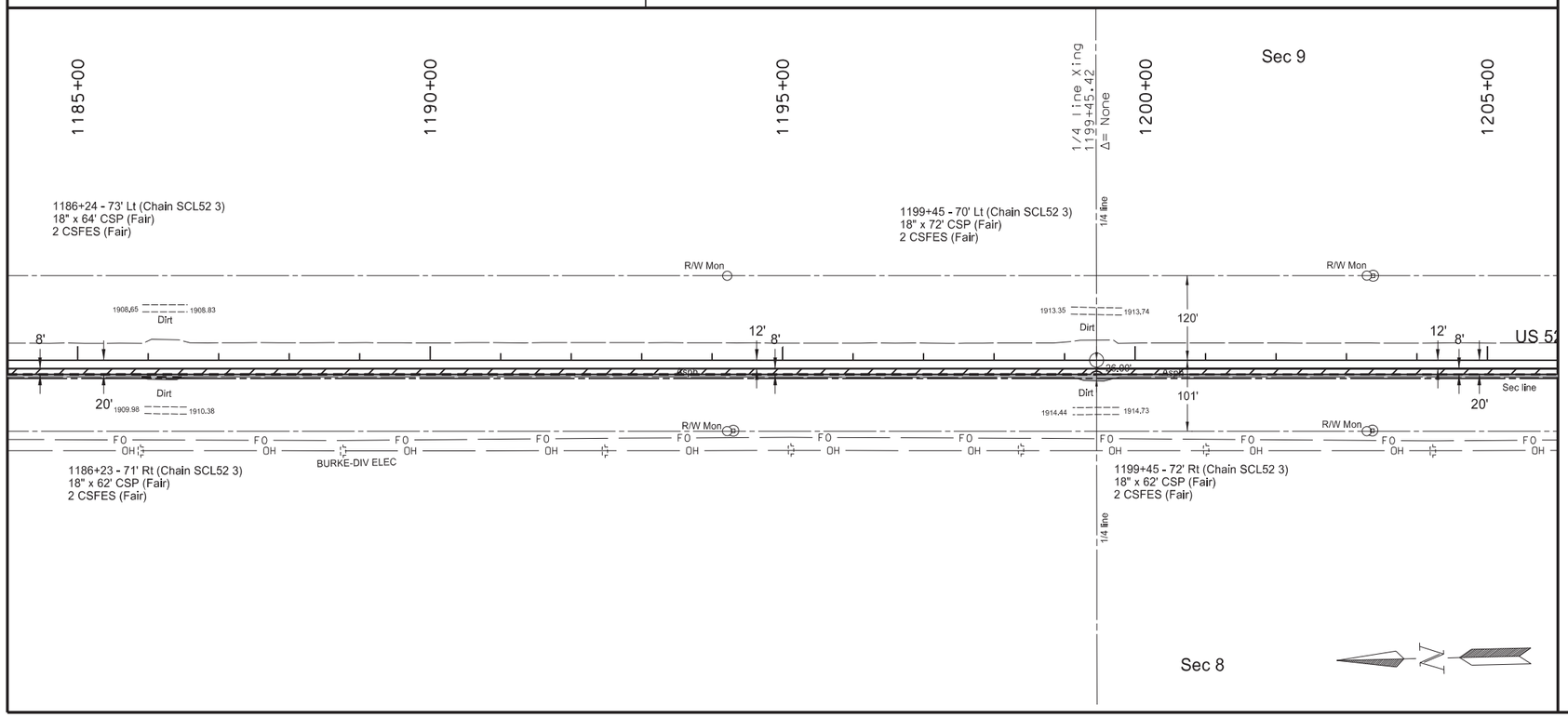
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 13 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1175+00 to 1205+00 RT | | |
| | | Bituminous Pavement | 402 | TON |
| | | Aggregate Base | 1978 | TON |
| | | Approach | | |
| | | Sta 1173+05 RT | 52 | TON |
| | | Sta 1186+22 RT | 6 | TON |
| | | Sta 1199+46 RT | 9 | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1171+60 to 1205+00 RT | 180 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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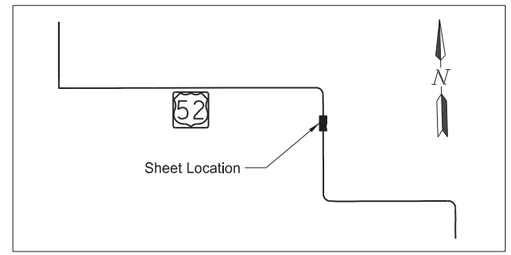
Removals

Passing Lane #4

Sta 1165+00 to Sta 1205+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 14 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1205+00 to 1245+00 RT | | |
| | | Bituminous Pavement | 536 | TON |
| | | Aggregate Base | 2638 | TON |
| | | Approach | | |
| | | Sta 1221+97 RT | 5 | TON |
| | | Sta 1225+85 RT | 52 | TON |
| | | Sta 1229+17 RT | 40 | TON |
| | | Sta 1234+20 RT | 4 | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1205+00 to 1245+00 RT | 215 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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ENGINEER
NORTH DAKOTA
09/01/23

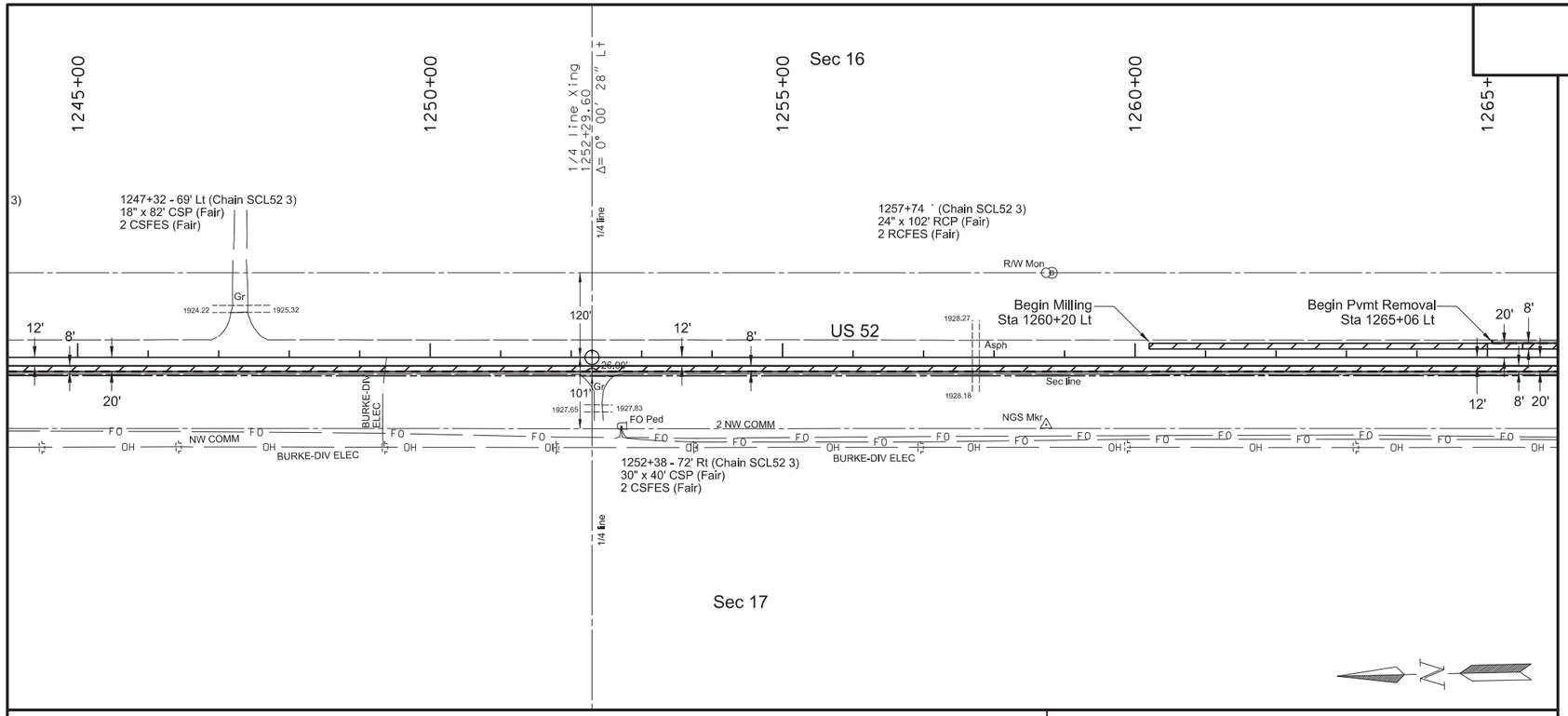
Removals

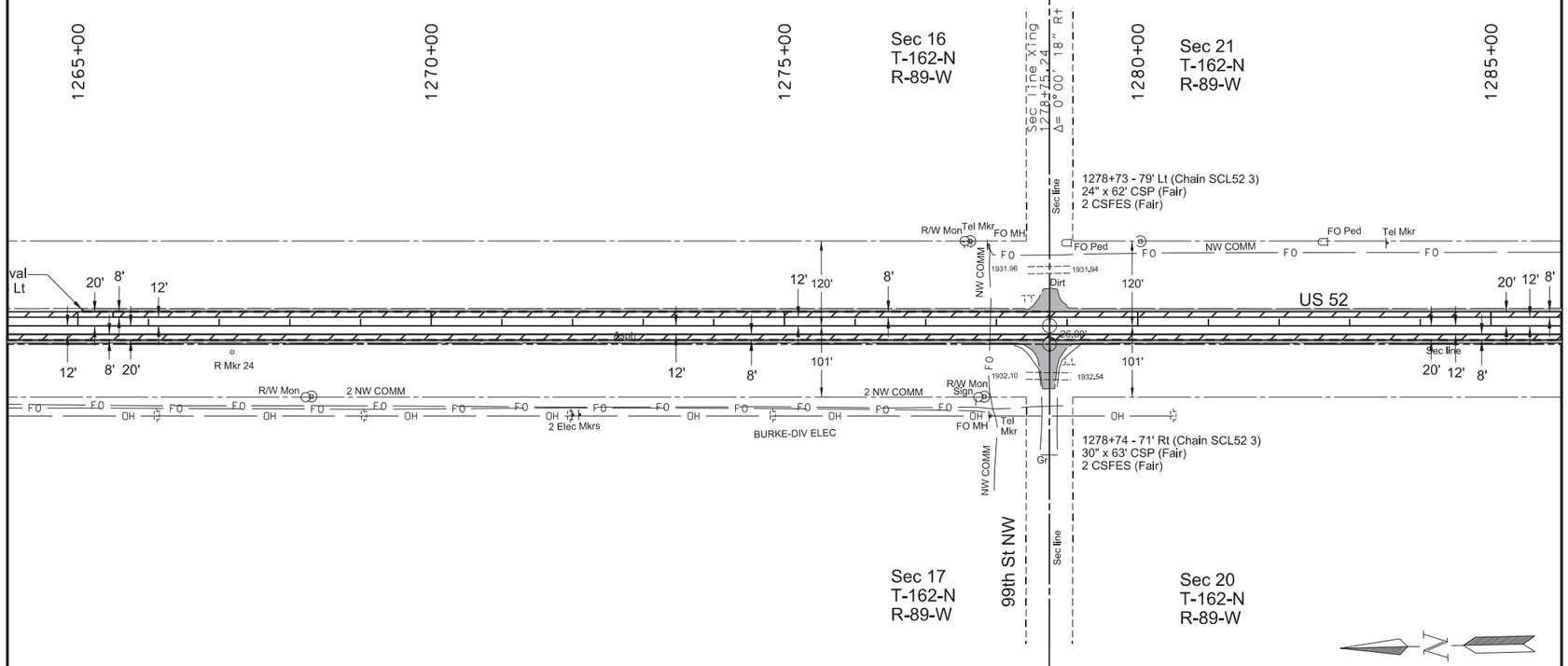
Passing Lane #4

Sta 1205+00 to Sta 1245+00

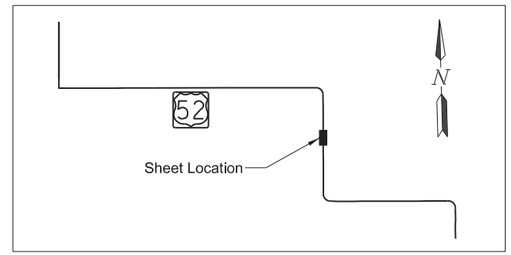
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 15 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1245+00 to 1285+00 RT | | |
| | | Bituminous Pavement | **536** | TON |
| | | Aggregate Base | **2638** | TON |
| | | Sta 1265+06 to 1285+00 LT | | |
| | | Bituminous Pavement | **267** | TON |
| | | Aggregate Base | **1314** | TON |
| | | Approach | | |
| | | Sta 1252+37 RT | **4** | TON |
| | | Sta 1278+73 RT | **71** | TON |
| | | Sta 1278+73 LT | **34** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1245+00 to 1285+00 RT | **215** | TON |
| | | Sta 1260+20 to 1285+00 LT | **133** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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ENGINEER
NORTH DAKOTA

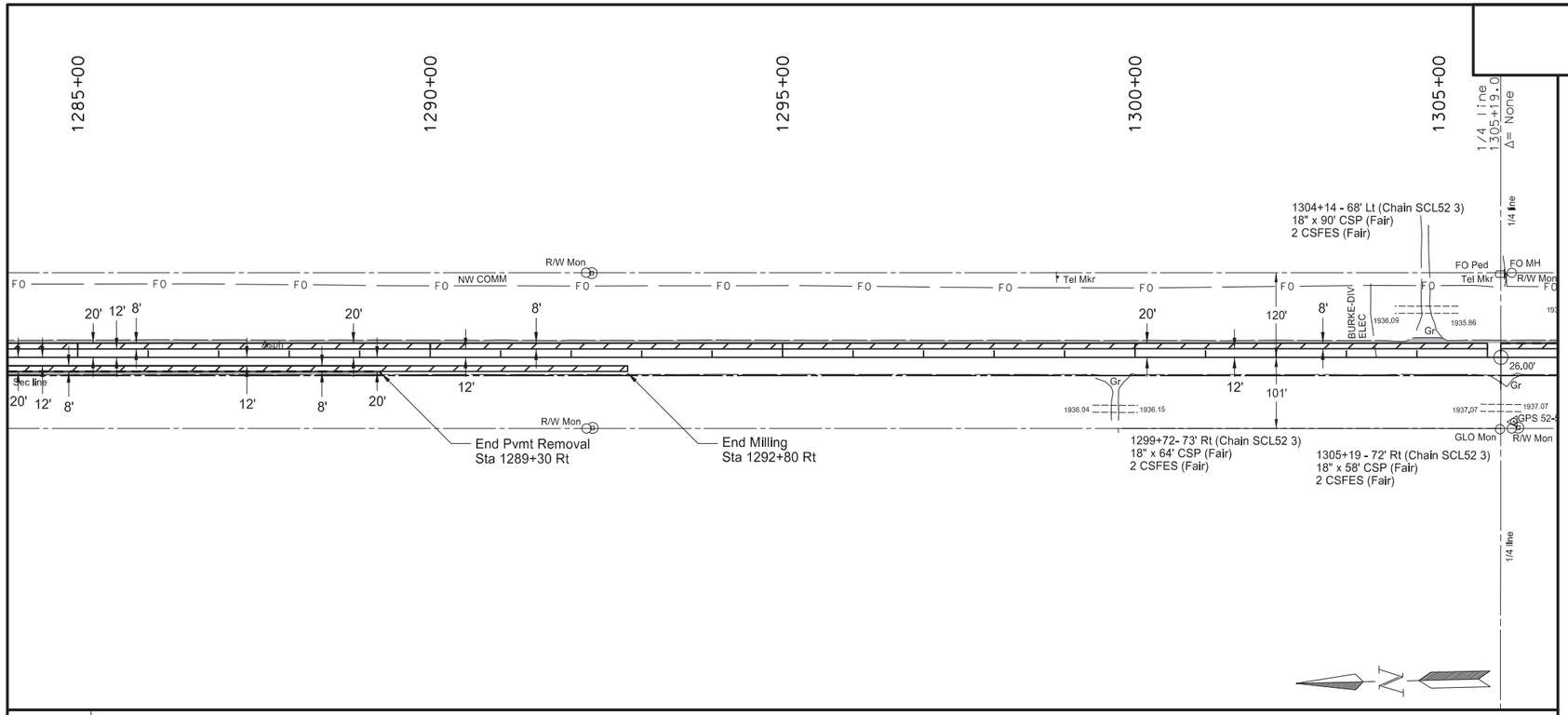
09/01/23

Removals

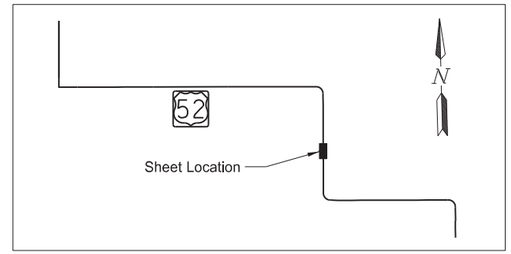
Passing Lane #4 & #5

Sta 1245+00 to Sta 1285+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 16 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1285+00 to 1289+30 RT | | |
| | | Bituminous Pavement | **536** | TON |
| | | Aggregate Base | **2638** | TON |
| | | Sta 1285+00 to 1325+00 LT | | |
| | | Bituminous Pavement | **280** | TON |
| | | Aggregate Base | **1377** | TON |
| | | Approach | | |
| | | Sta 1304+12 LT | **8** | TON |
| | | Sta 1306+65 LT | **4** | TON |
| | | Sta 1318+34 LT | **5** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1285+00 to 1292+80 RT | **42** | TON |
| | | Sta 1285+00 to 1325+00 LT | **215** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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ENGINEER
NORTH DAKOTA

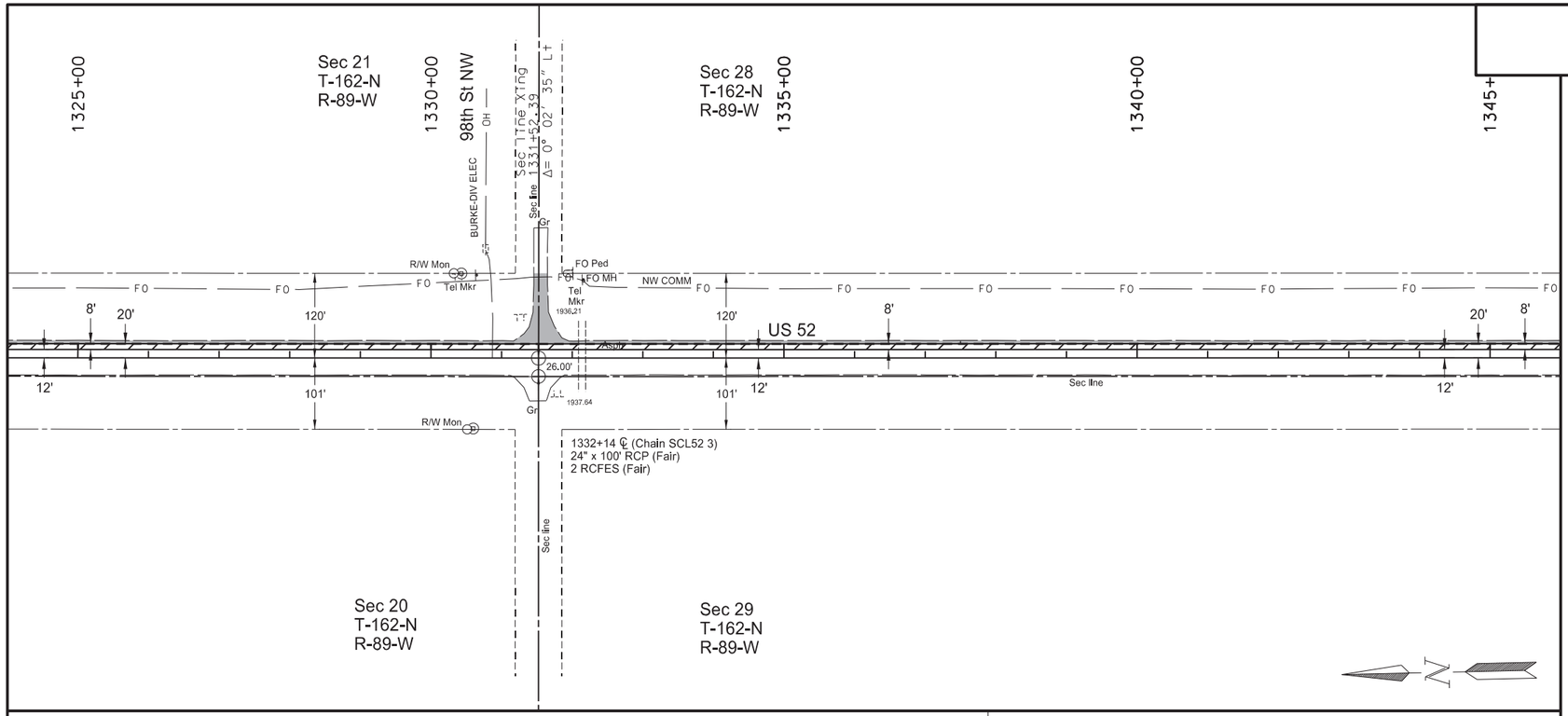
09/01/23

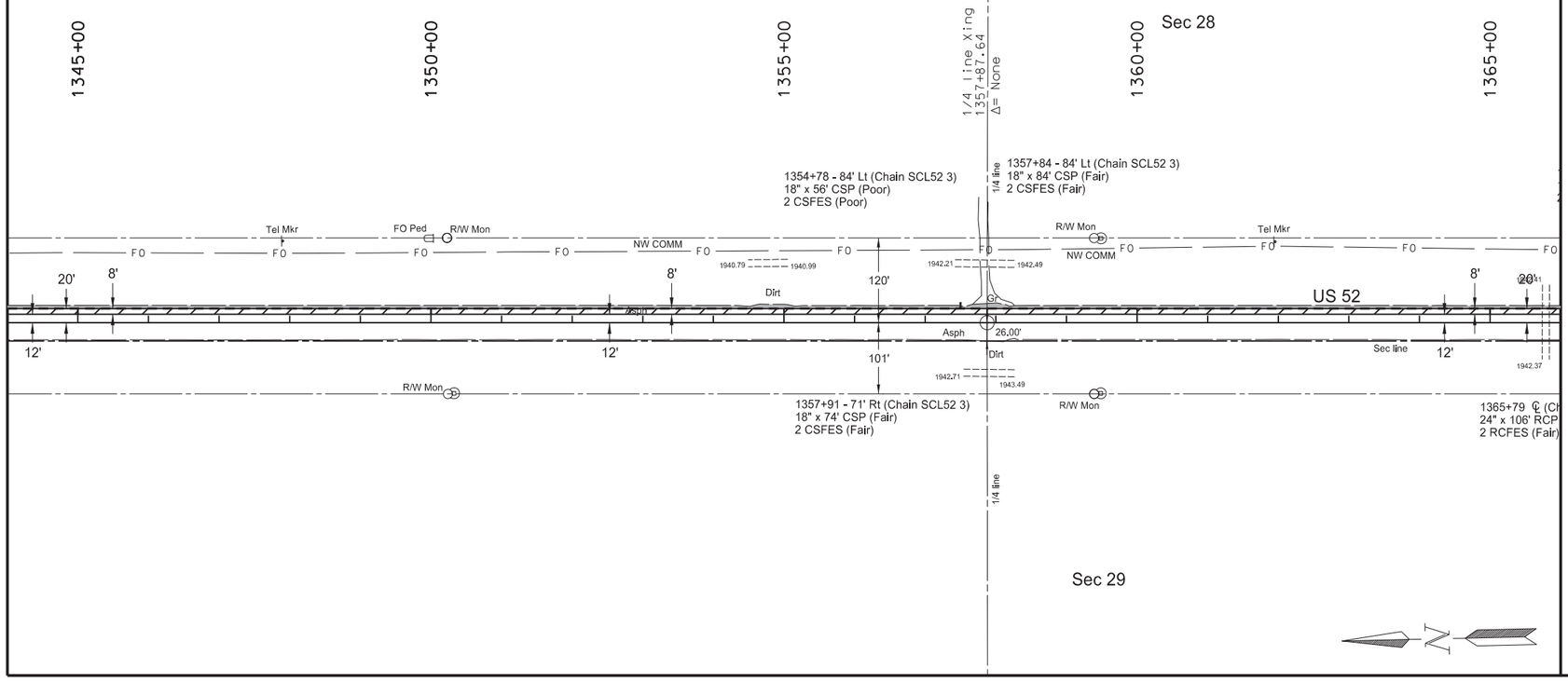
Removals

Passing Lane #4 & #5

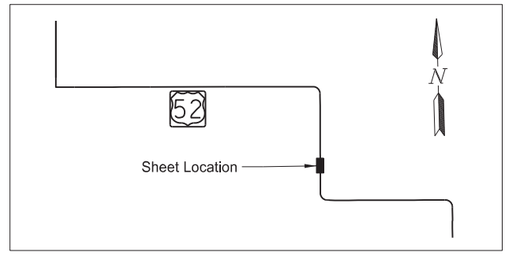
Sta 1285+00 to Sta 1325+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 17 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| **202** | **0021** | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1325+00 to 1365+00 LT | | |
| | | Bituminous Pavement | **536** | TON |
| | | Aggregate Base | **2636** | TON |
| | | Approach | | |
| | | Sta 1331+55 LT | **99** | TON |
| | | Sta 1354+77 LT | **5** | TON |
| | | Sta 1357+88 LT | **7** | TON |
| **411** | **0100** | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1325+00 to 1365+00 LT | **215** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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NORTH DAKOTA

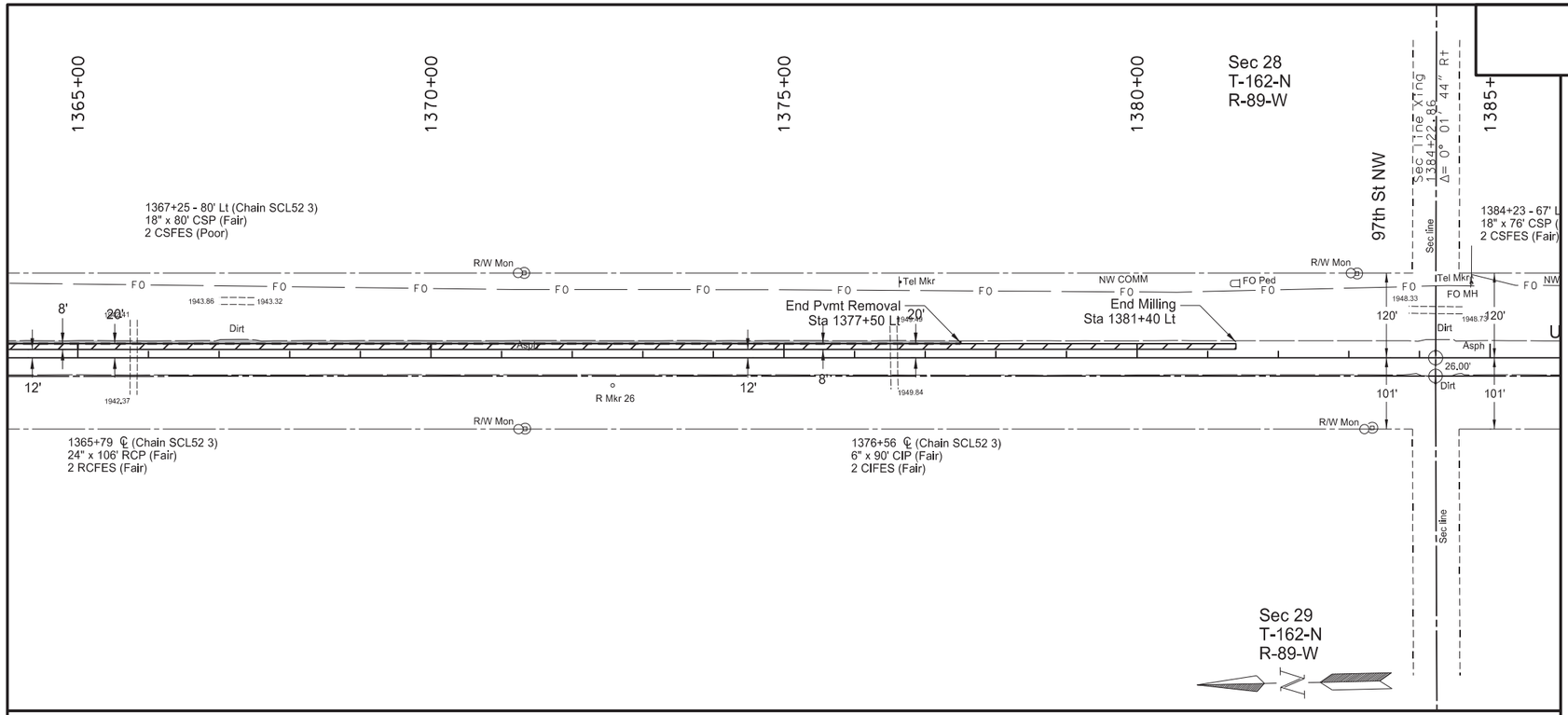
09/01/23

Removals

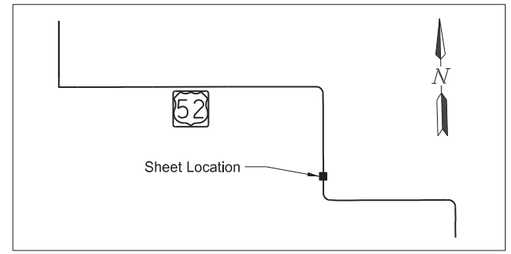
Passing Lane #5

Sta 1325+00 to Sta 1365+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 18 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1365+00 to 1377+50 LT | | |
| | | Bituminous Pavement | **167** | TON |
| | | Aggregate Base | **824** | TON |
| | | Approach | | |
| | | Sta 1366+28 LT | **5** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1365+00 to 1381+40 LT | 88 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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NORTH DAKOTA
09/01/23

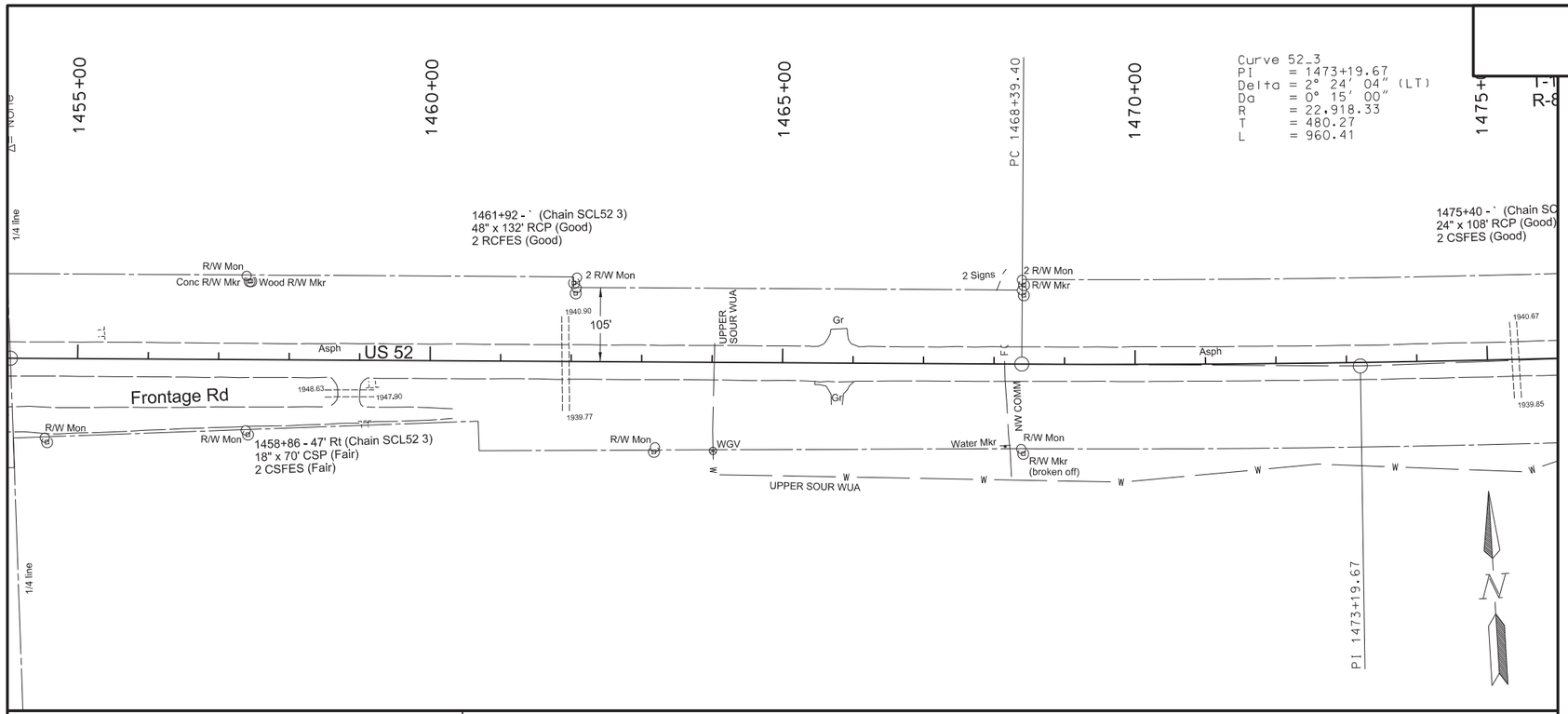
Removals

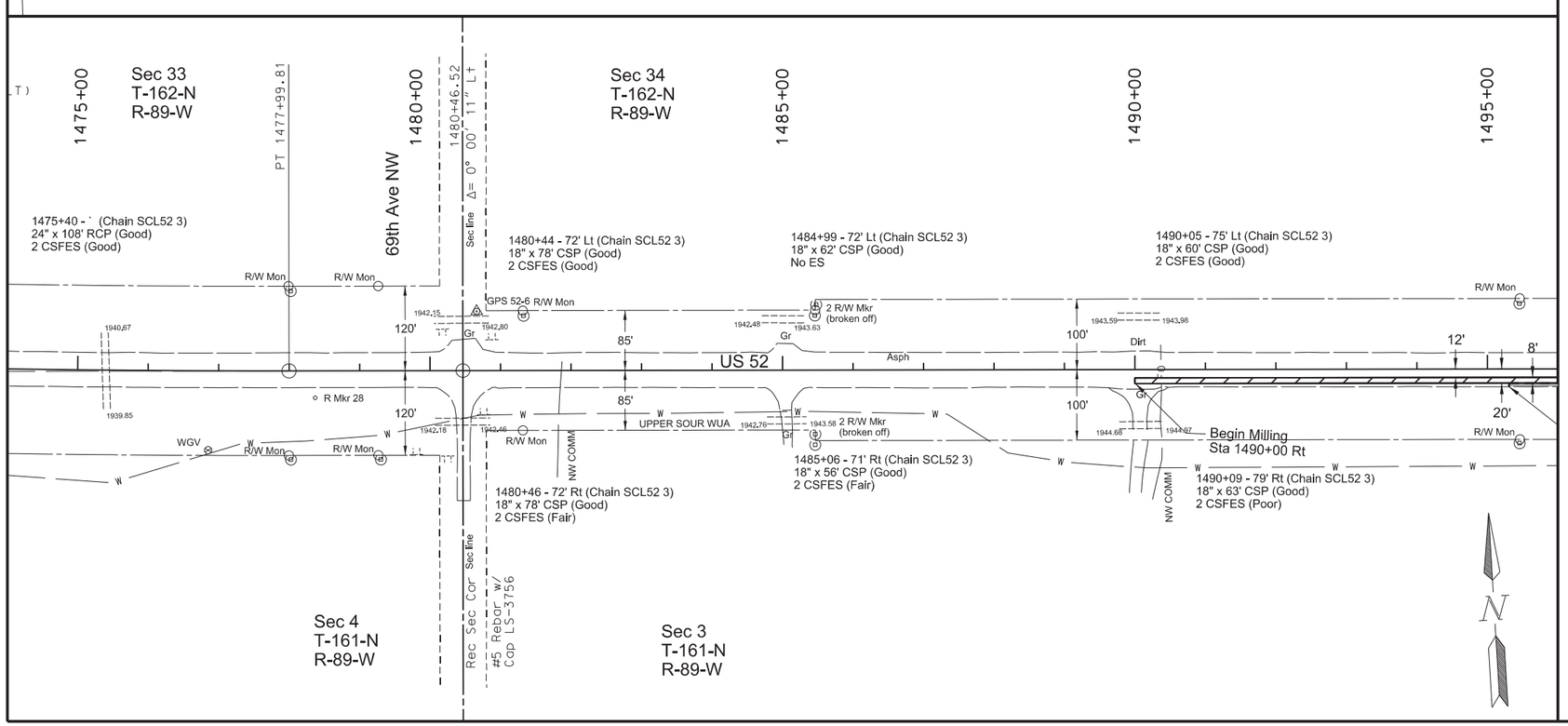
Passing Lane #5

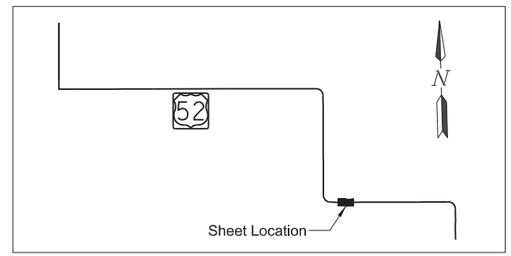
Sta 1365+00 to Sta 1385+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 19 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 411 | 0100 | MILLING PAVEMENT SURFACE | | |
| | | Sta 1490+00 to 1495+00 RT | 27 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

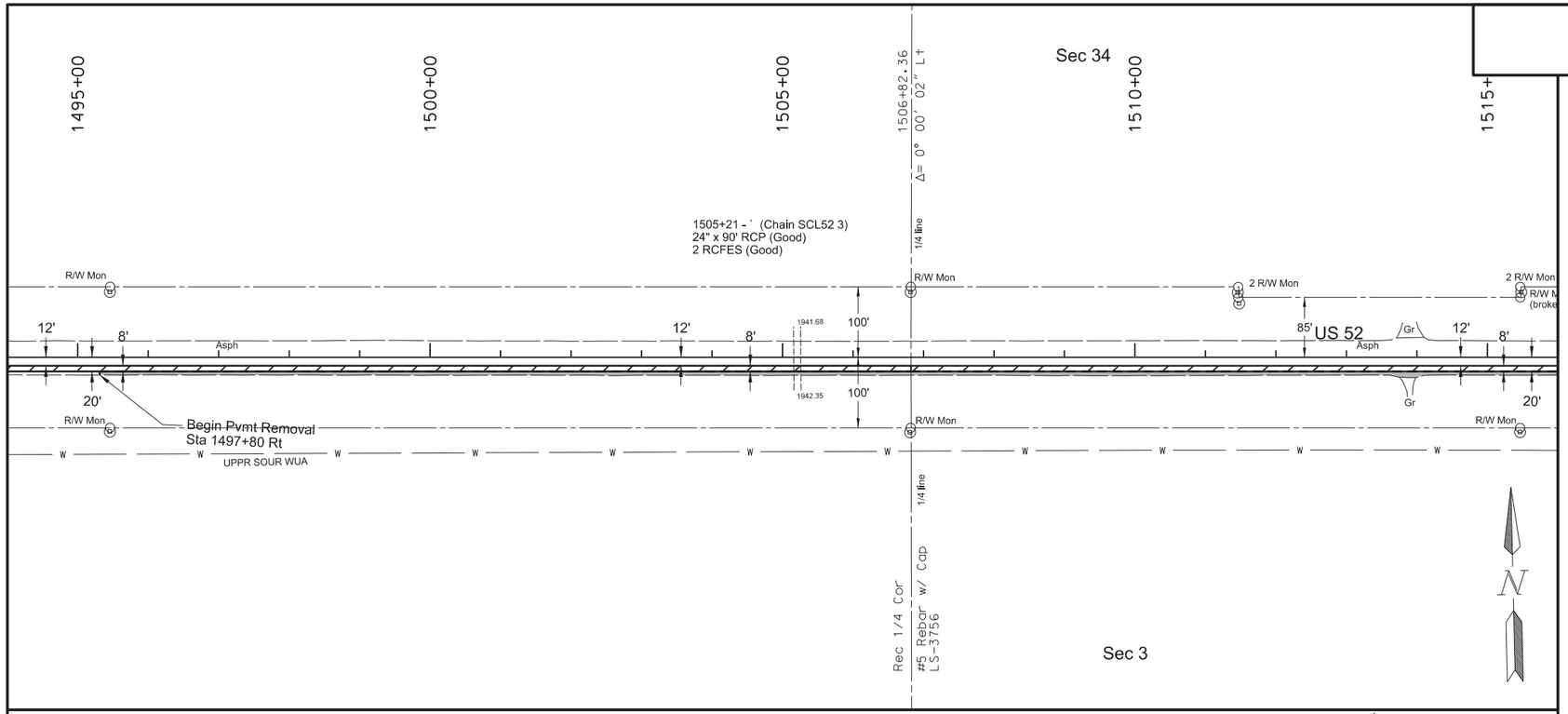
CHAD FRISINGER
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09/01/23

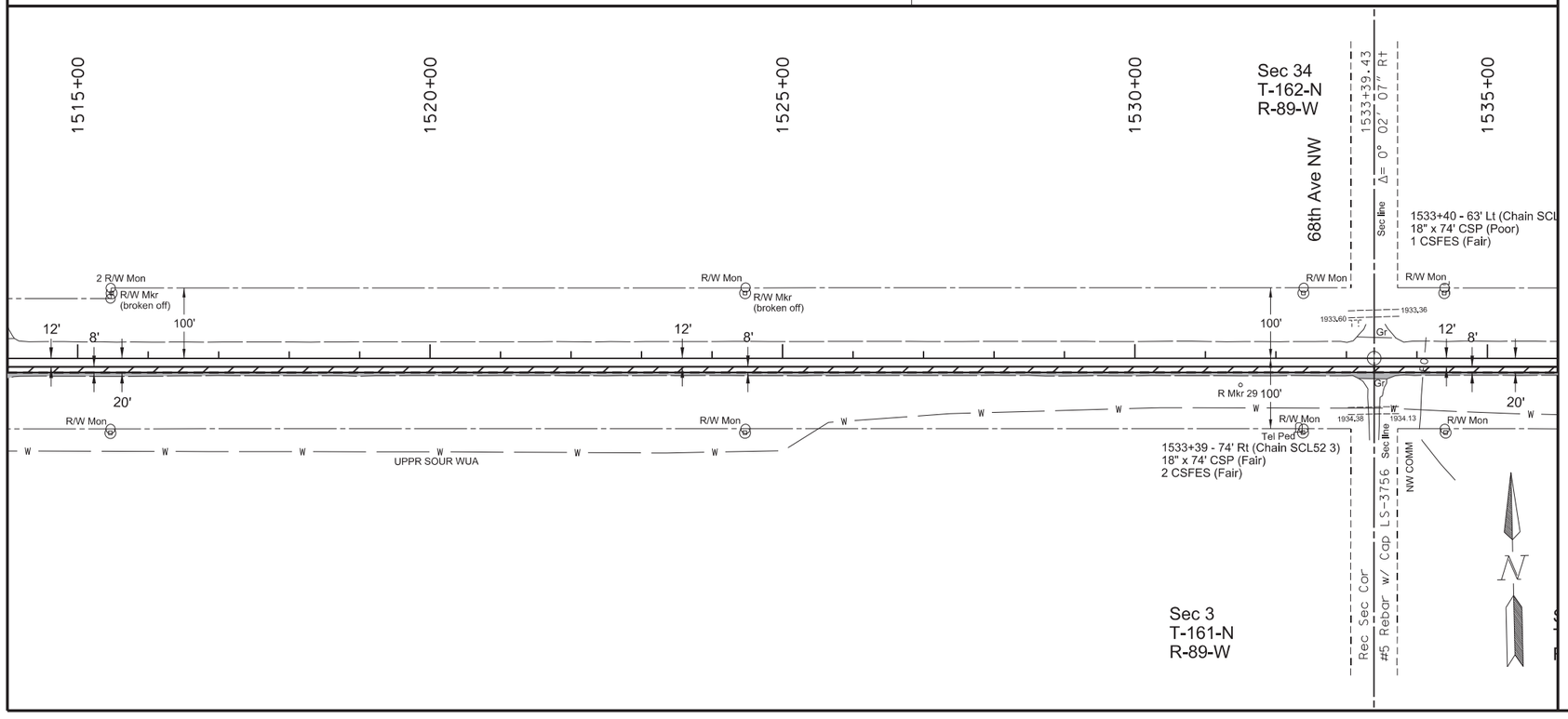
Removals

Passing Lane #6

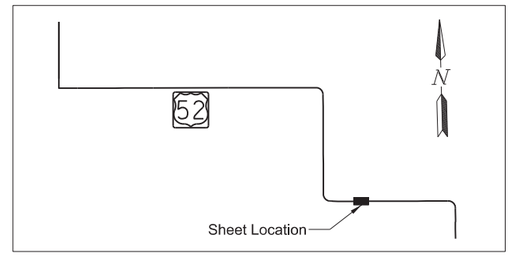
Sta 1455+00 to Sta 1495+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 20 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1497+80 to 1535+00 RT | | |
| | | Bituminous Pavement | 498 | TON |
| | | Aggregate Base | 2453 | TON |
| | | Approach | | |
| | | Sta 1513+87 RT | 4 | TON |
| | | Sta 1533+40 RT | 8 | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1495+00 to 1535+00 RT | 215 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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NORTH DAKOTA
09/01/23

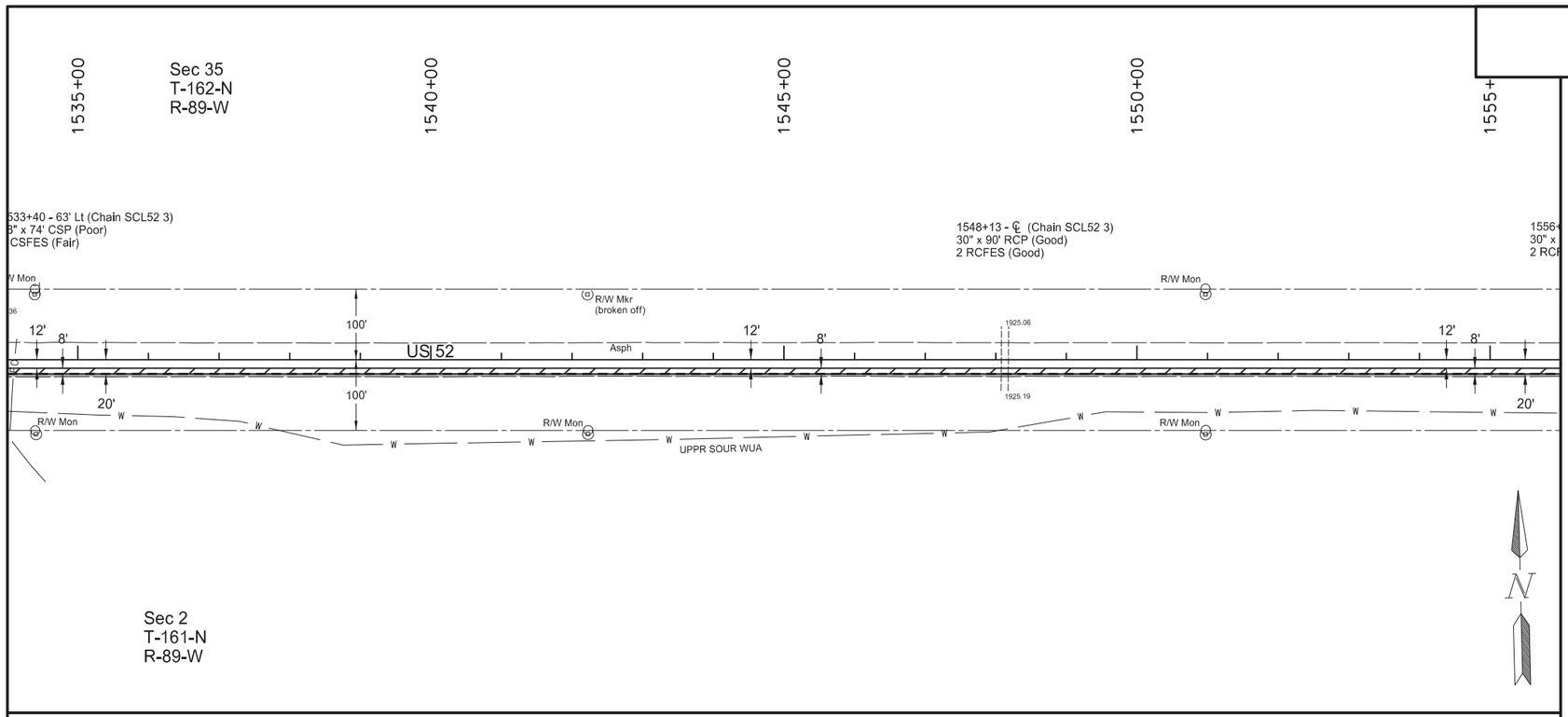
Removals

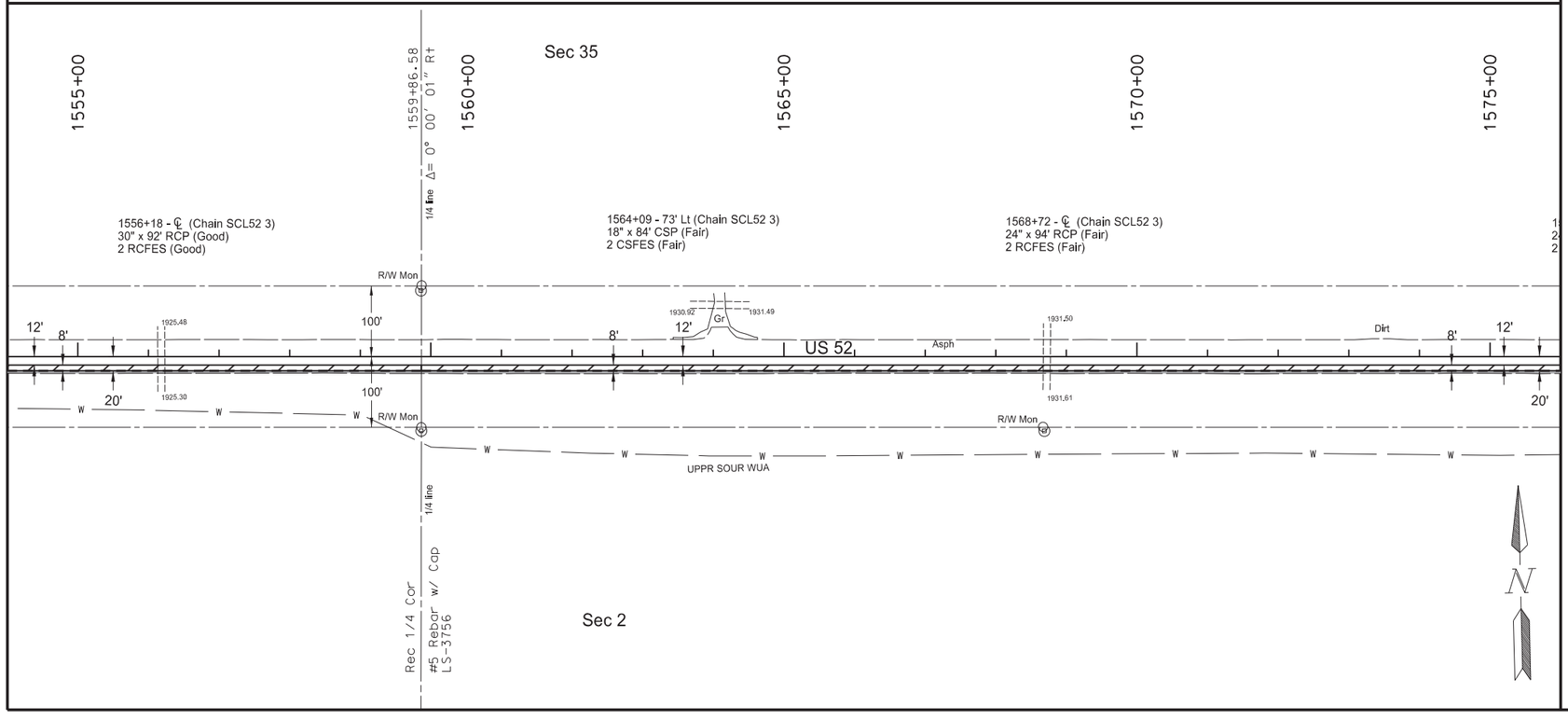
Passing Lane #6

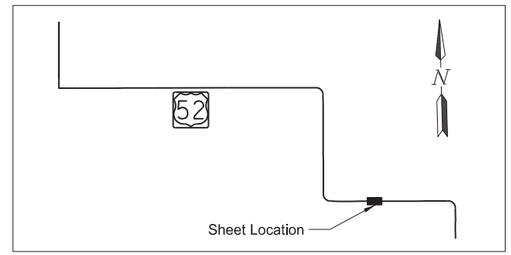
Sta 1495+00 to Sta 1535+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 21 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | REMOVE AGGREGATE BASE & SURFACING | | |
| | | Sta 1535+00 to 1575+00 RT | | |
| | | Bituminous Pavement | 536 | TON |
| | | Aggregate Base | 2638 | TON |
| 411 | 0100 | MILLING PAVEMENT SURFACE | | |
| | | Sta 1535+00 to 1575+00 RT | 215 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

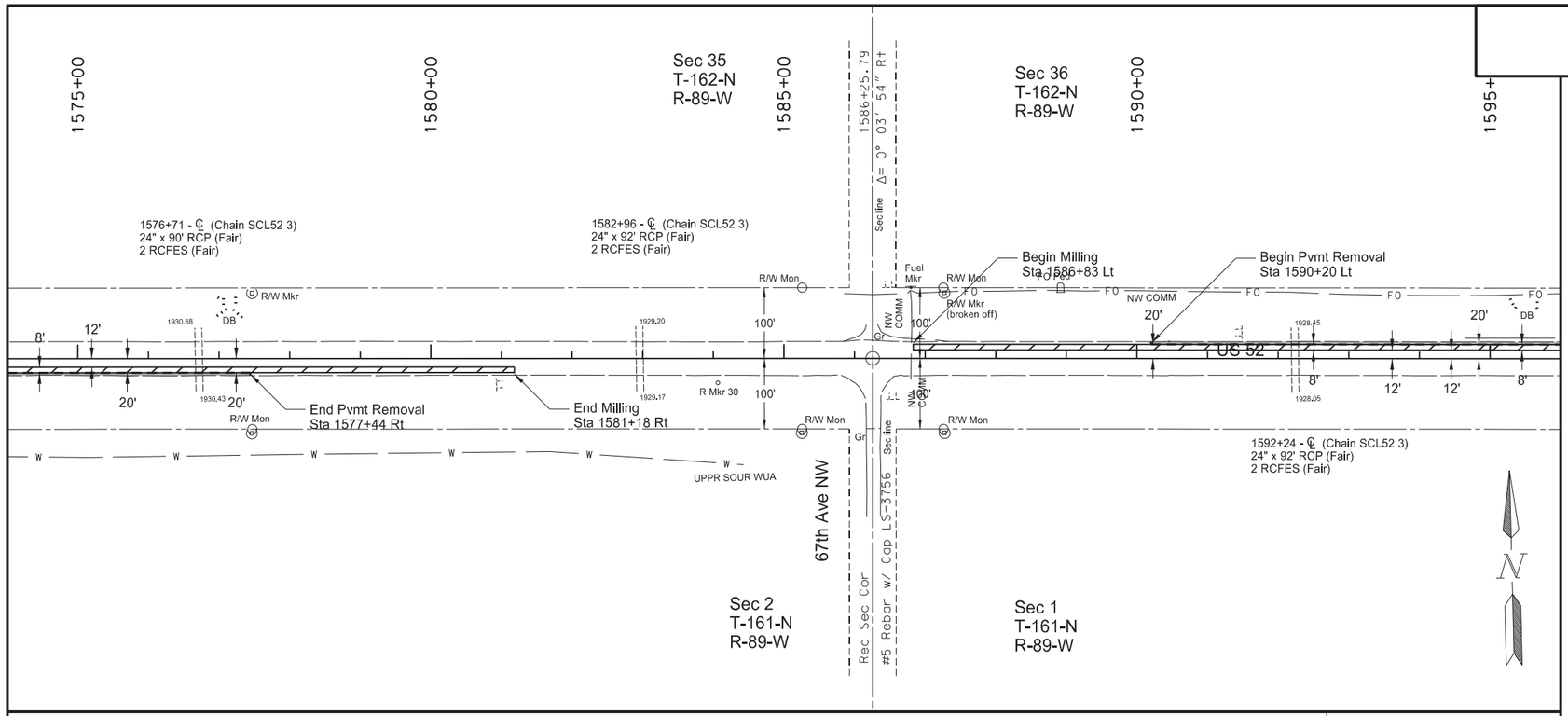
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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

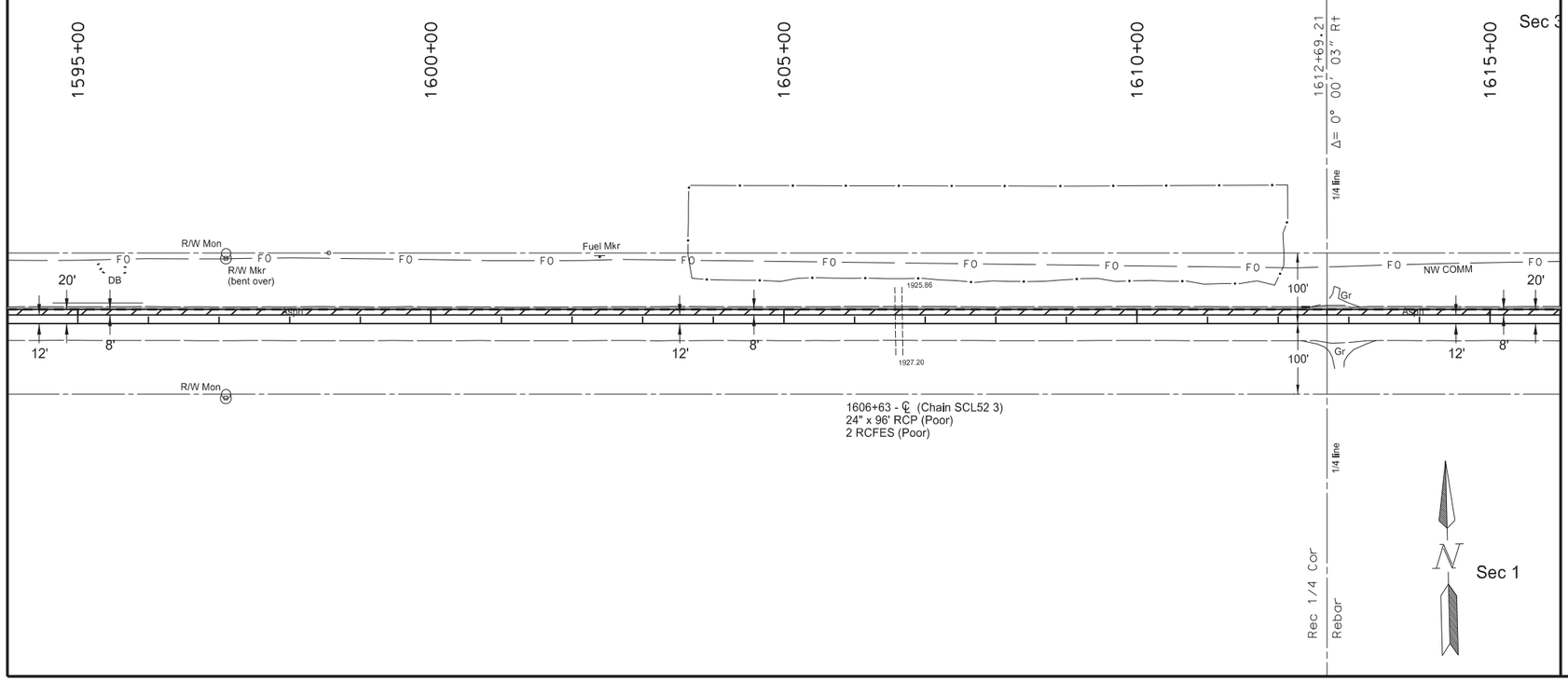
Removals

Passing Lane #6

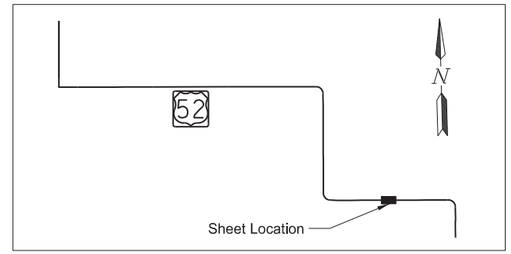
Sta 1535+00 to Sta 1575+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 22 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1575+00 to 1577+45 RT | | |
| | | Bituminous Pavement | **33** | TON |
| | | Aggregate Base | **162** | TON |
| | | Sta 1590+20 to 1615+00 LT | | |
| | | Bituminous Pavement | **332** | TON |
| | | Aggregate Base | **1634** | TON |
| | | Approach | | |
| | | Sta 1612+77 LT | **4** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1575+00 to 1581+18 RT | **33** | TON |
| | | Sta 1586+83 to 1615+00 LT | **152** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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NORTH DAKOTA

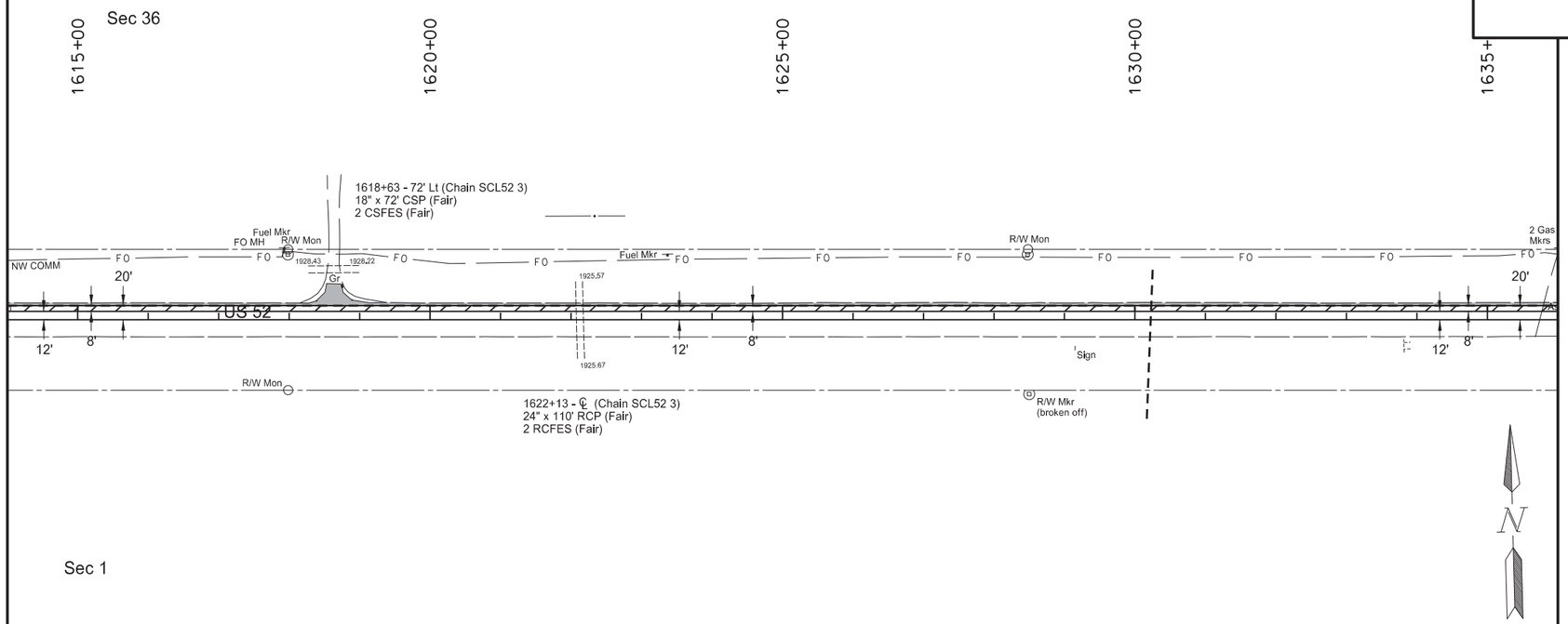
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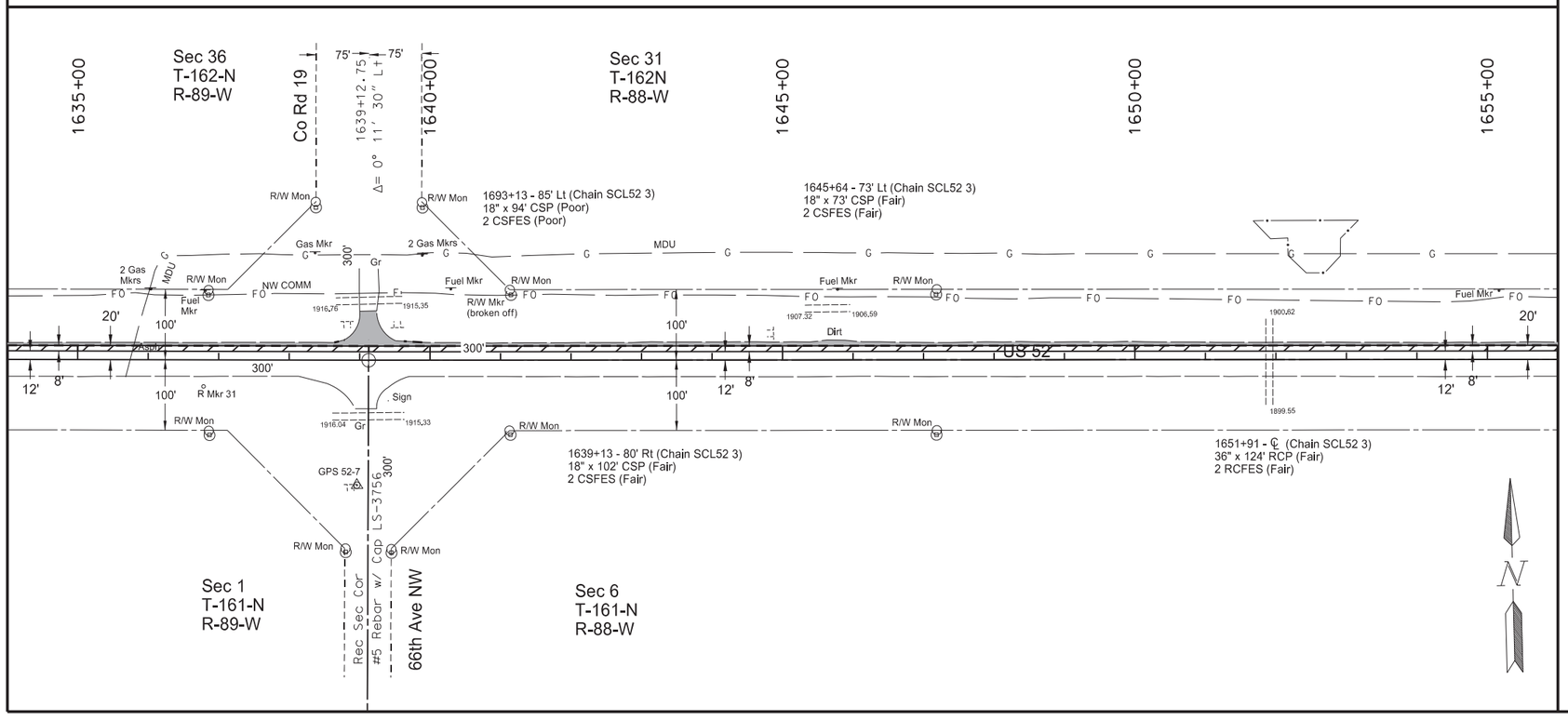
Removals

Passing Lane #6 & #7

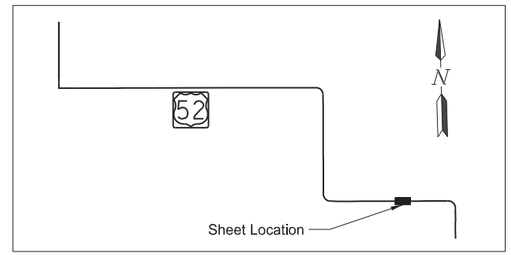
Sta 1575+00 to Sta 1615+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 23 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1615+00 to 1655+00 LT | | |
| | | Bituminous Pavement | **536** | TON |
| | | Aggregate Base | **2636** | TON |
| | | Approach | | |
| | | Sta 1618+64 LT | **34** | TON |
| | | Sta 1639+12 LT | **63** | TON |
| | | Sta 1645+64 LT | **4** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1615+00 to 1655+00 LT | **215** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

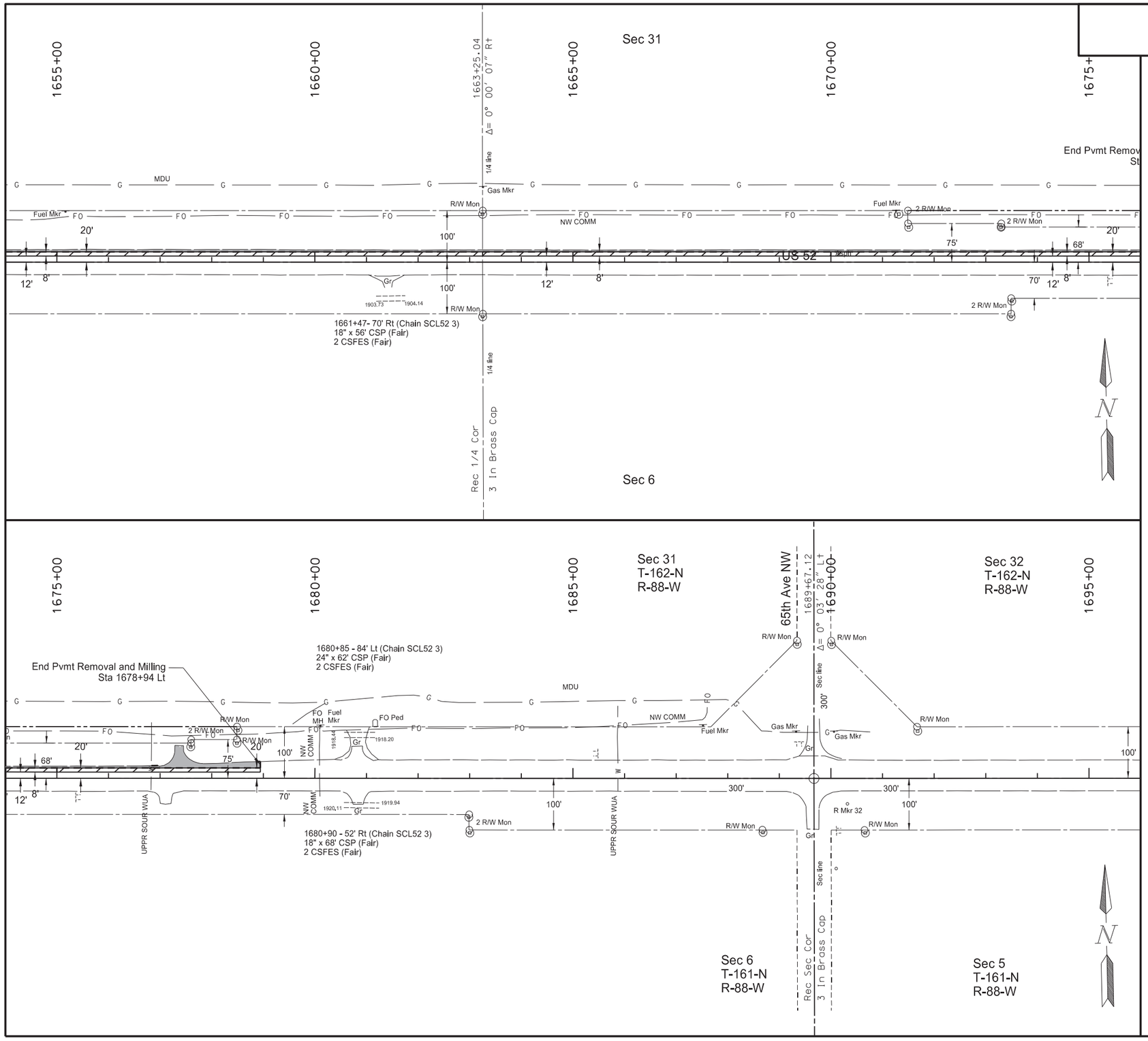
Removals

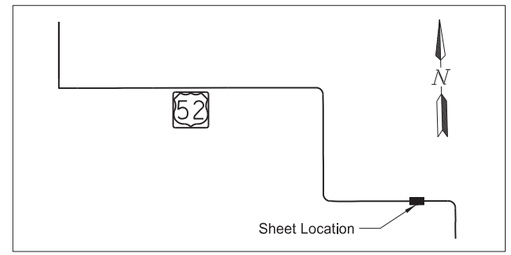
Passing Lane #7

Sta 1615+00 to Sta 1655+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 24 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1655+00 to 1678+94 LT | | |
| | | Bituminous Pavement | **536** | TON |
| | | Aggregate Base | **2636** | TON |
| | | Approach | | |
| | | Sta 1677+36 LT | **39** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1655+00 to 1678+94 LT | **215** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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ENGINEER
NORTH DAKOTA
09/01/23

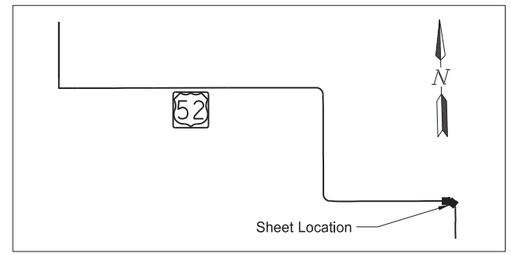
Removals

Passing Lane #7

Sta 1655+00 to Sta 1695+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 25 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1764+94 to 1800+00 RT | | |
| | | Bituminous Pavement | **469** | TON |
| | | Aggregate Base | **2312** | TON |
| | | Approach | | |
| | | Sta 1783+72 RT | **16** | TON |
| | | Sta 1797+55 RT | **5** | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1764+94 to 1800+00 RT | **189** | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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09/01/23

Removals

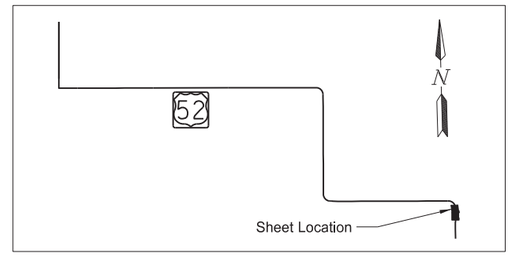
Passing Lane #8

Sta 1760+00 to 1800+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 40 | 26 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 0021 | **REMOVE AGGREGATE BASE & SURFACING** | | |
| | | Sta 1800+00 to 1836+44 RT | | |
| | | Bituminous Pavement | 488 | TON |
| | | Aggregate Base | 2403 | TON |
| | | Approach | | |
| | | Sta 1809+40 RT | 5 | TON |
| | | Sta 1835+97 RT | 28 | TON |
| 411 | 0100 | **MILLING PAVEMENT SURFACE** | | |
| | | Sta 1800+00 to 1839+55 RT | 213 | TON |




Legend

Remove Aggregate Base & Surfacing

Milling Pavement Surface

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09/01/23

Removals

Passing Lane #8

Sta 1800+00 to Sta 1840+00

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 51 | 1 |

| Begin Station / Location | Begin Offset | End Station / Location | End Offset | Pipe Installation (Pay Item) In | Bid Item | LF | Allowable Material | Required Diameter | Steel Pipe Coatings | Steel Pipe Corrugations or Spiral Ribs | Steel Pipe Minimum Thickness | Geosynthetic Material - Type G (Pay Item) | (*) End Sections Begin | End | Applicable Backfill |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In | Bid Item | LF | | In | Type | | In | SY | EA | EA | |
| 264+42 | 54' Lt | 264+42 | 72' Lt | 42 | Pipe Conc. Reinf. CL III (Extension) | 20 | Reinforced Concrete Pipe - Class III **(barrel length = 20 LF)** | 42 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 289+95 | 50' Lt | 289+95 | 70' Lt | 30 | Pipe Conc. Reinf. CL III (Extension) | 20 | Reinforced Concrete Pipe - Class III **(barrel length = 20 LF)** | 30 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 298+89 | 38' Lt | 298+89 | 46' Lt | 30 | Pipe Conc. Reinf. CL III (Extension) | 8 | Reinforced Concrete Pipe - Class III **(barrel length = 8 LF)** | 30 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 299+00 | 38' Lt | 299+00 | 46' Lt | 30 | Pipe Conc. Reinf. CL III (Extension) | 8 | Reinforced Concrete Pipe - Class III **(barrel length = 8LF)** | 30 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 310+94 | 46' Lt | 310+94 | 68' Lt | 30 | Pipe Conc. Reinf. CL III (Extension) | 22 | Reinforced Concrete Pipe - Class III **(barrel length = 22 LF)** | 30 | | | | | FES | | Section 20 Sheet 1 |
| 331+00 | 47' Lt | 331+00 | 63' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 18 | Reinforced Concrete Pipe - Class III **(barrel length = 18 LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 345+57 | 44'Lt | 345+57 | 58' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 14 | Reinforced Concrete Pipe - Class III **(barrel length = 14LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 507+78 | 40' Rt | 507+78 | 62' Rt | 30 | Pipe Conc. Reinf. CL III (Extension) | 24 | Reinforced Concrete Pipe - Class III **(barrel length = 24 LF)** | 30 | | | | | | FES | Section 20 Sheet 1 |
| 514+45 | 54' Rt | 514+61 | 54' Rt | 24 | Pipe Corr. Steel (Replacement) | 16 | Corrugated Steel Pipe | 18 | P | 2 | 0.064 | | FES | FES | Specification 714.04 A |
| 514+61 | | 514+77 | | | | 16 | | | | | | | | | |
| 517+71 | 40' Rt | 517+71 | 54' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 16 | Reinforced Concrete Pipe - Class III **(barrel length = 16 LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 517+85 | 40' Rt | 517+85 | 54' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 16 | Reinforced Concrete Pipe - Class III **(barrel length = 16 LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 534+83 | 44' Rt | 534+83 | 48' Rt | 30 | Pipe Conc. Reinf. CL III (Extension) | 6 | Reinforced Concrete Pipe - Class III **(barrel length = 6 LF)** | 30 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 556+83 | 39' Rt | 556+83 | 53' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 16 | Reinforced Concrete Pipe - Class III **(barrel length = 16 LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 566+82 | 44' Rt | 566+82 | 62' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 18 | Reinforced Concrete Pipe - Class III **(barrel length = 18 LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 601+84 | 60' Rt | 602+10 | 60' Rt | 24 | Pipe Corr. Steel (Replacement) | 16 | Corrugated Steel Pipe | 18 | P | 2 | 0.064 | | FES | FES | Specification 714.04 A |
| 602+10 | | 602+40 | | | | 20 | | | | | | | | | |
| 979+04 | 44' Lt | 979+04 | 62' Lt | 30 | Pipe Conc. Reinf. CL III (Extension) | 18 | Reinforced Concrete Pipe - Class III **(barrel length = 18 LF)** | 30 | | | | | Remove & Relay | | Section 20 Sheet 1 |

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

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Allowable Pipe List

Passing Lanes

US 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 51 | 2 |

| Begin Station / Location | Begin Offset | End Station / Location | End Offset | Pipe Installation (Pay Item) | | | Allowable Material | Required Diameter | Steel Pipe Coatings | Steel Pipe Corrugations or Spiral Ribs | Steel Pipe Minimum Thickness | Geosynthetic Material - Type G (Pay Item) | (*) End Sections | | Applicable Backfill |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In | Bid Item | LF | | In | Type | | In | SY | Begin EA | End EA | |
| 1229+43 | 71' Rt | 1229+45 | 71' Rt | 18 | Pipe Corr. Steel (Extension) | 2 | Corrugated Steel Pipe | 18 | P | 2 | 0.064 | | | FES | Specification 714.04 A |
| 1233+92 | 71' Rt | 1234+00 | 71' Rt | 18 | Pipe Corr. Steel (Extension) | 8 | Corrugated Steel Pipe | 18 | P | 2 | 0.064 | | FES | FES | Specification 714.04 A |
| 1234+42 | | 1234+50 | | | | 8 | | | | | | | | | |
| 1252+14 | 72' Rt | 1252+18 | 72' Rt | 30 | Pipe Corr. Steel (Extension) | 4 | Corrugated Steel Pipe | 30 | P | 2 | 0.064 | | | FES | Specification 714.04 A |
| 1257+74 | 49' Rt | 1257+74 | 59' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1303+86 | 79' Lt | 1304+14 | 79' Lt | 24 | Pipe Corr. Steel (Replacement) | 28 | Corrugated Steel Pipe | 18 | P | 2 | 0.064 | | FES | FES | Specification 714.04 A |
| 1304+14 | | 1304+42 | | | | 28 | | | | | | | | | |
| 1316+22 | 56' Lt | 1316+22 | 66' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 1332+14 | 52' Lt | 1332+14 | 60' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 1365+79 | 53' Lt | 1365+79 | 61' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 8 | Reinforced Concrete Pipe - Class III **(barrel length = 8LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 1367+49 | 80' Lt | 1367+51 | 80' Lt | 18 | Pipe Corr. Steel (Extension) | 2 | Corrugated Steel Pipe | 18 | P | 2 | 0.064 | | FES | | Specification 714.04 A |
| 1505+21 | 46' Rt | 1505+21 | 54' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 8 | Reinforced Concrete Pipe - Class III **(barrel length = 8LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1548+13 | 44' Rt | 1548+13 | 56' Rt | 30 | Pipe Conc. Reinf. CL III (Extension) | 14 | Reinforced Concrete Pipe - Class III **(barrel length = 14LF)** | 30 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1556+18 | 49' Rt | 1556+18 | 55' Rt | 30 | Pipe Conc. Reinf. CL III (Extension) | 6 | Reinforced Concrete Pipe - Class III **(barrel length = 6LF)** | 30 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1568+72 | 47' Rt | 1568+72 | 57' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1576+71 | 46' Rt | 1576+71 | 52' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 8 | Reinforced Concrete Pipe - Class III **(barrel length = 8LF)** | 24 | | | | | | FES | Section 20 Sheet 1 |
| 1592+24 | 44' Lt | 1592+24 | 52' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 1606+63 | 51' Lt | 1606+63 | 63' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 12 | Reinforced Concrete Pipe - Class III **(barrel length = 12LF)** | 24 | | | | | FES | | Section 20 Sheet 1 |
| 1622+13 | 55' Lt | 1622+13 | 65' Lt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 1651+91 | 59' Lt | 1651+91 | 67' Lt | 36 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 36 | | | | | Remove & Relay | | Section 20 Sheet 1 |
| 1766+61 | 50' Rt | 1776+61 | 58' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 8 | Reinforced Concrete Pipe - Class III **(barrel length = 8LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1791+61 | 53' Rt | 1791+61 | 67' Rt | 33 | Pipe Conc. Reinf. CL III (Extension) | 14 | Reinforced Concrete Pipe - Class III **(barrel length = 14LF)** | 33 | | | | | | Remove & Relay | Section 20 Sheet 1 |
| 1815+22 | 56' Rt | 1815+22 | 66' Rt | 24 | Pipe Conc. Reinf. CL III (Extension) | 10 | Reinforced Concrete Pipe - Class III **(barrel length = 10LF)** | 24 | | | | | | Remove & Relay | Section 20 Sheet 1 |

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

Coatings: **Z** = Zinc
**A** = 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

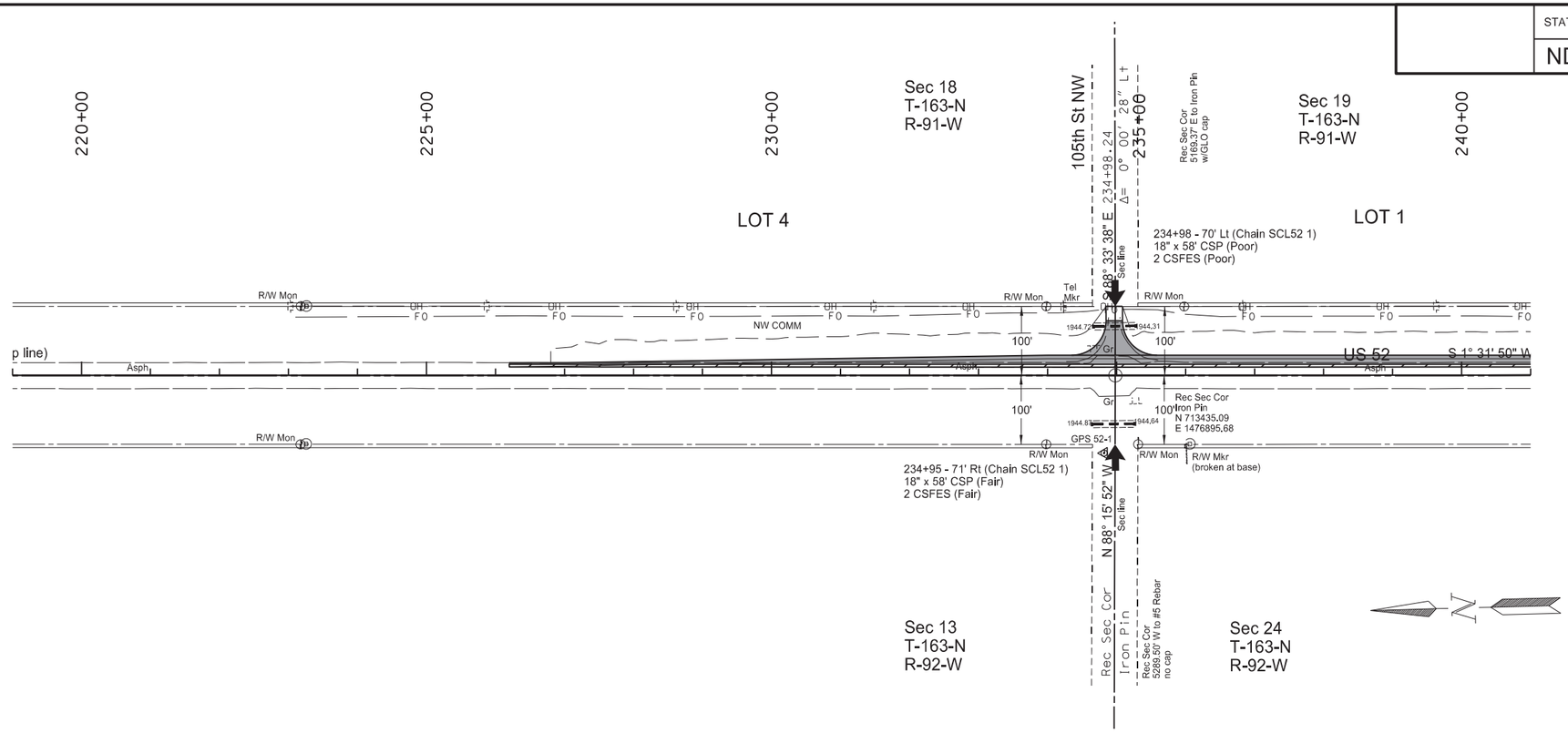
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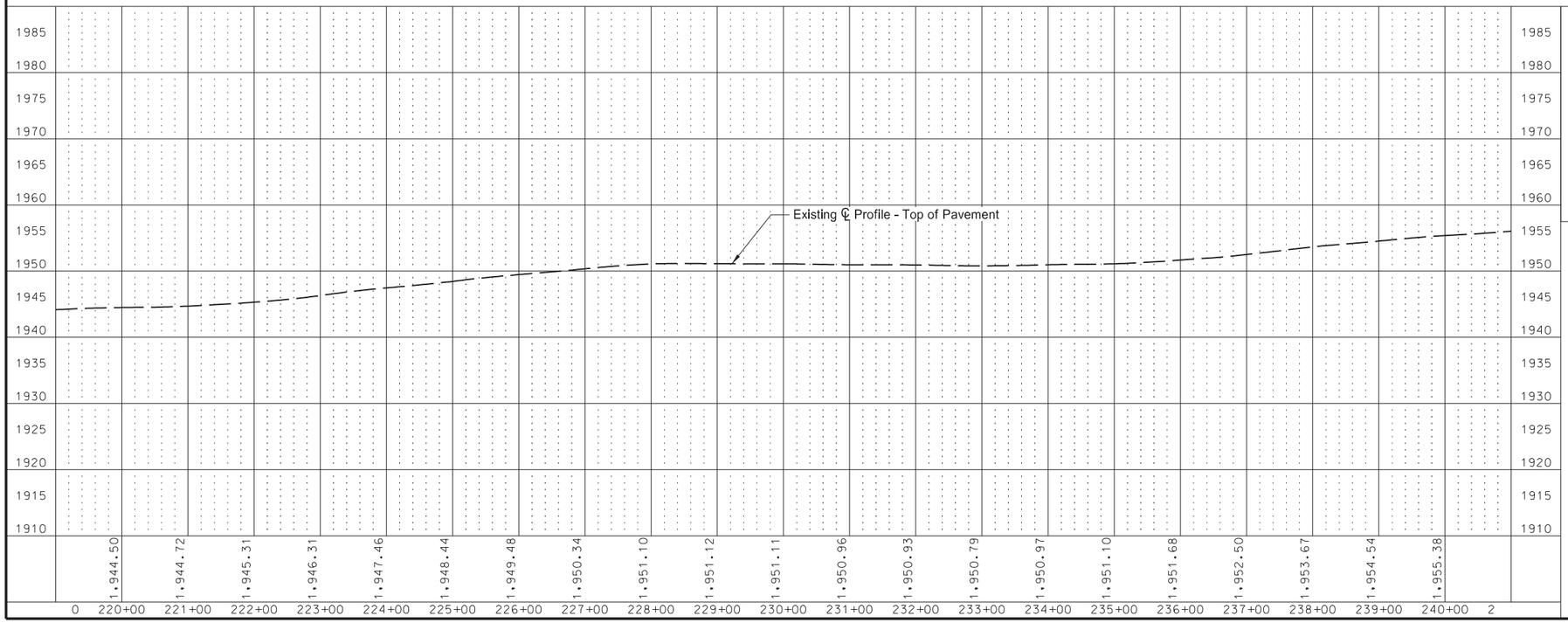
Allowable Pipe List

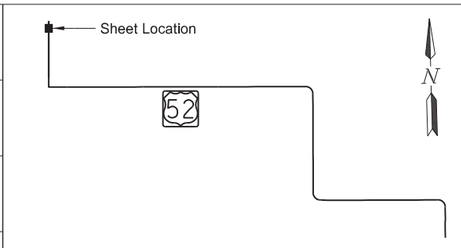
Passing Lanes

US 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 1 |




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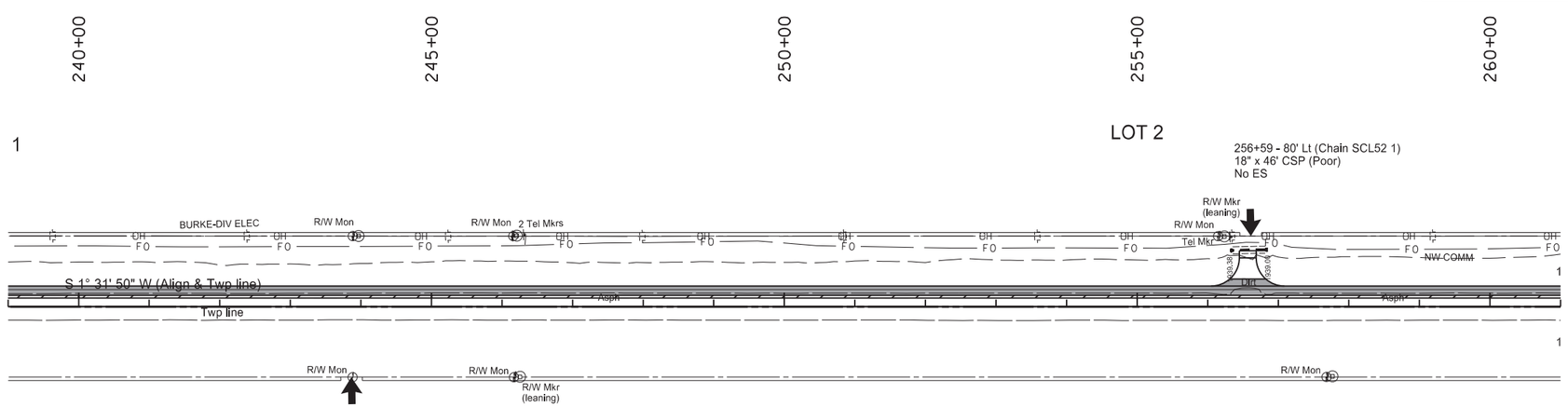
Plan and Profile

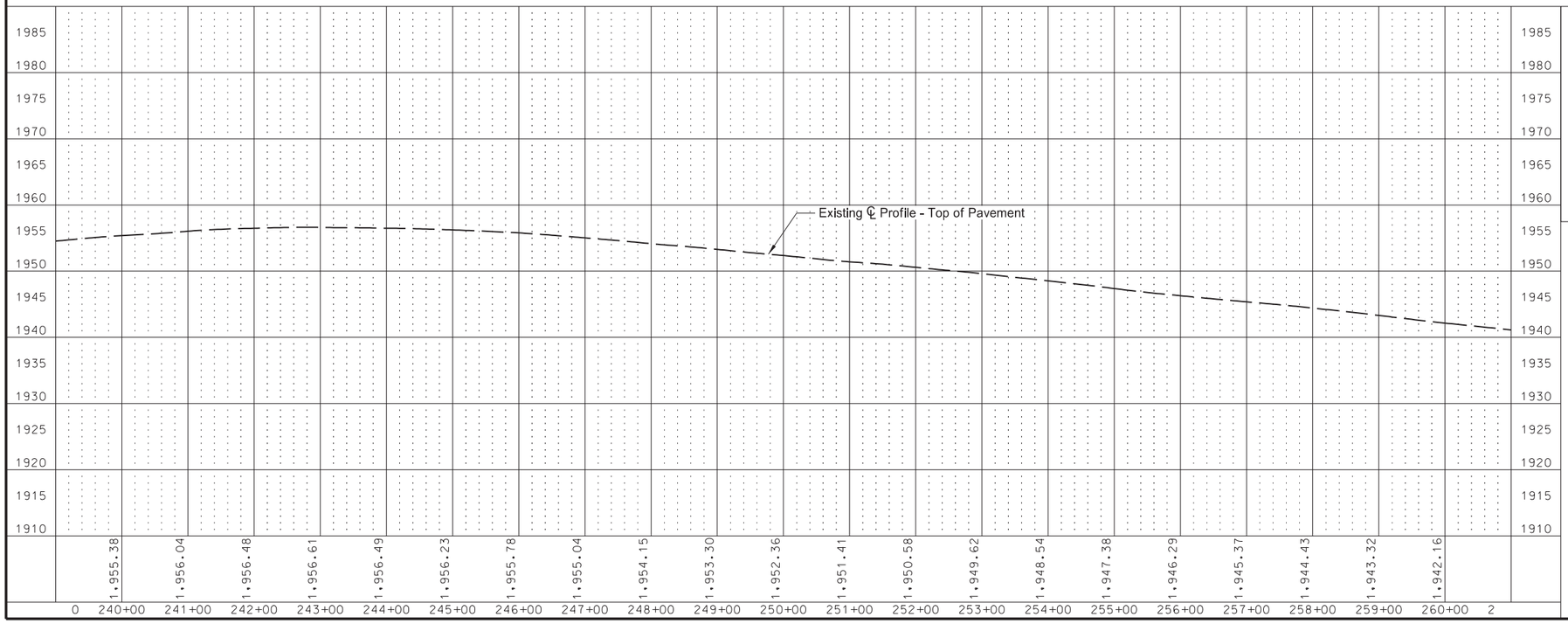
Passing Lane #1

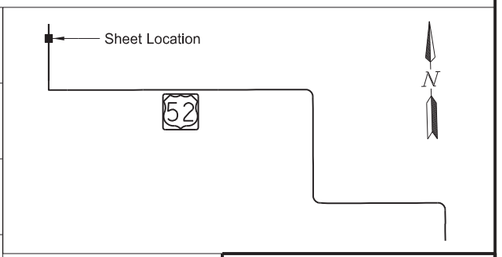
Sta 220+00 to Sta 240+00

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 2 |




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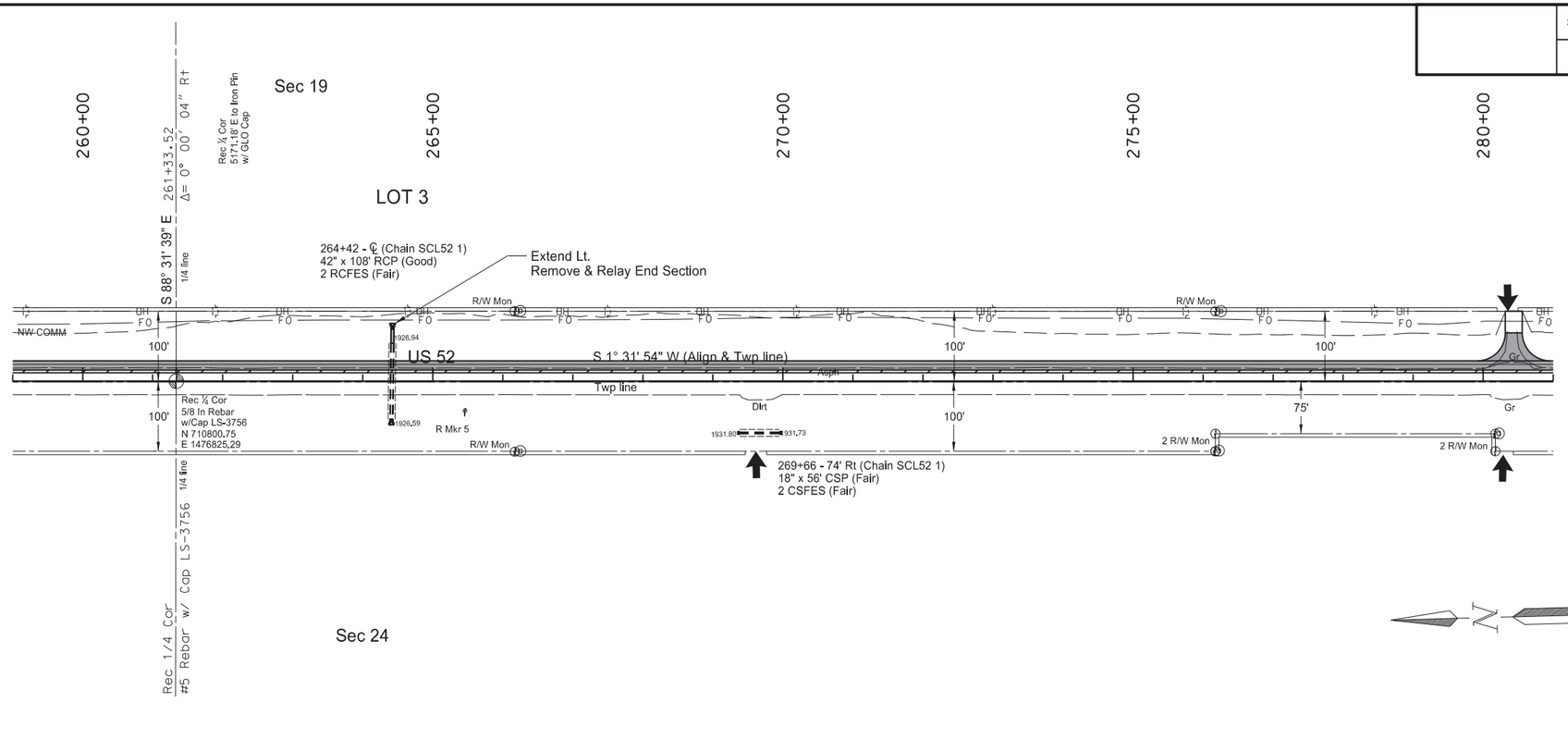
Plan and Profile

Passing Lane #1

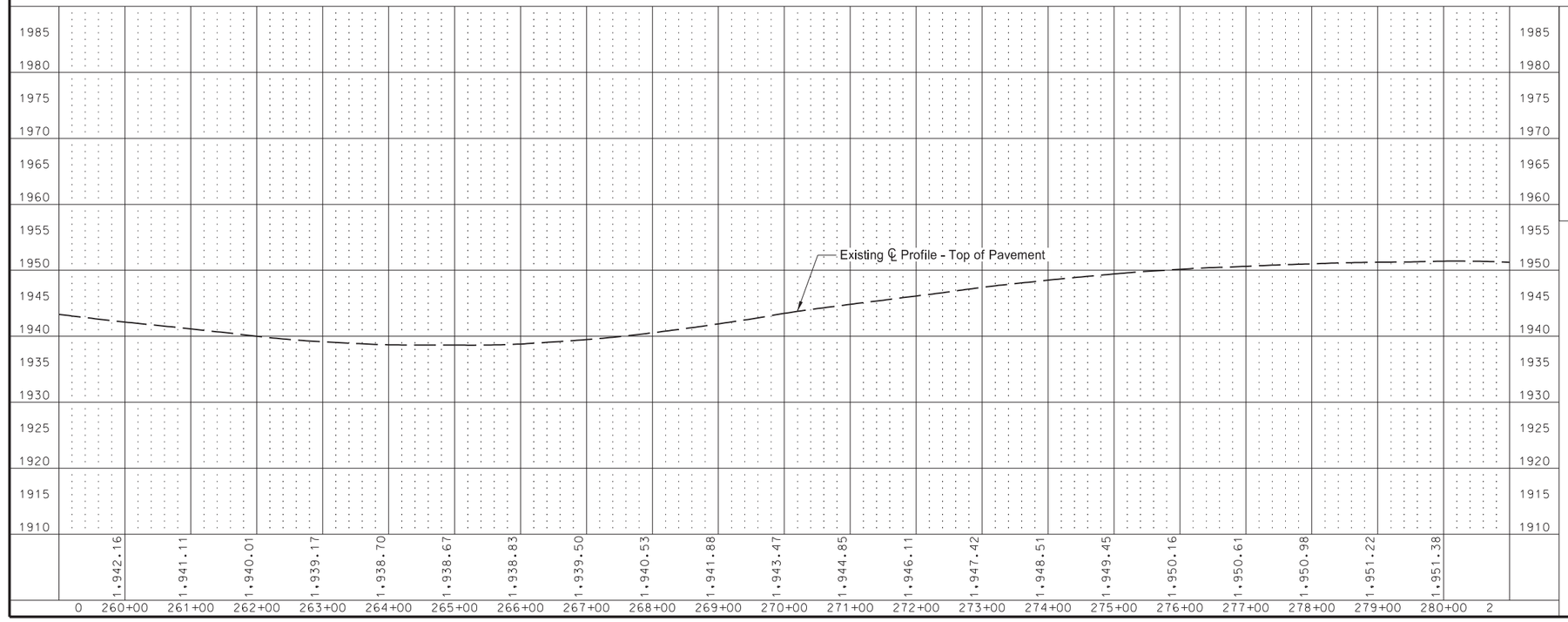
Sta 240+00 to Sta 260+00

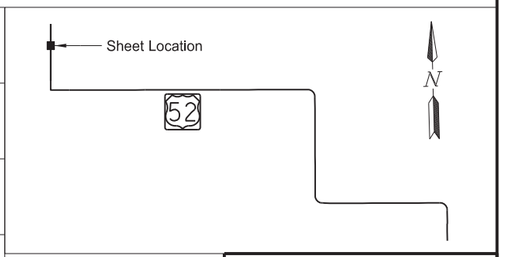
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 3 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 1005 | PIPE CONC REINF 42IN CL III | | |
| | | Sta 264+42 - CL (Lt) | 20 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 264+42 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 264+42 - CL (Lt) | 1 | EA |




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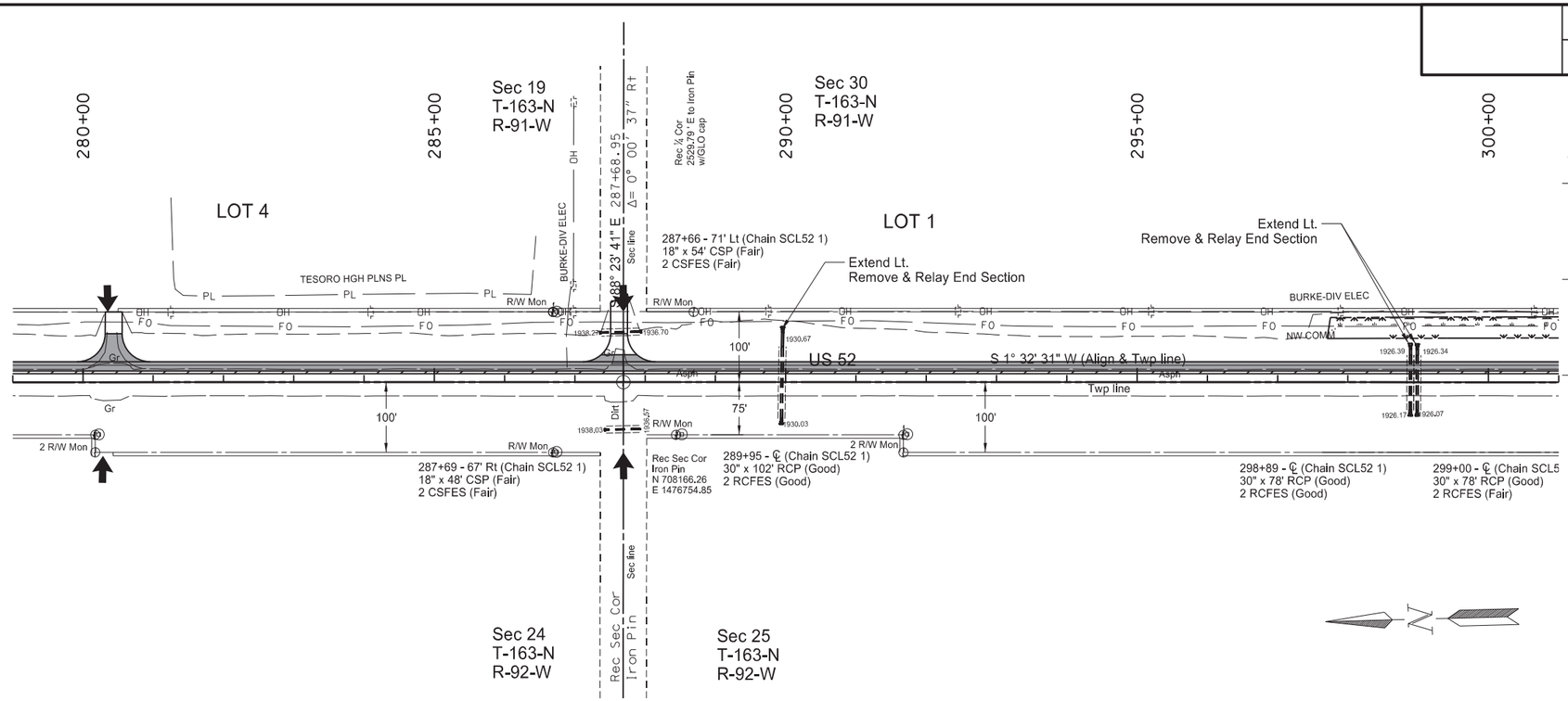
Plan and Profile

Passing Lane #1

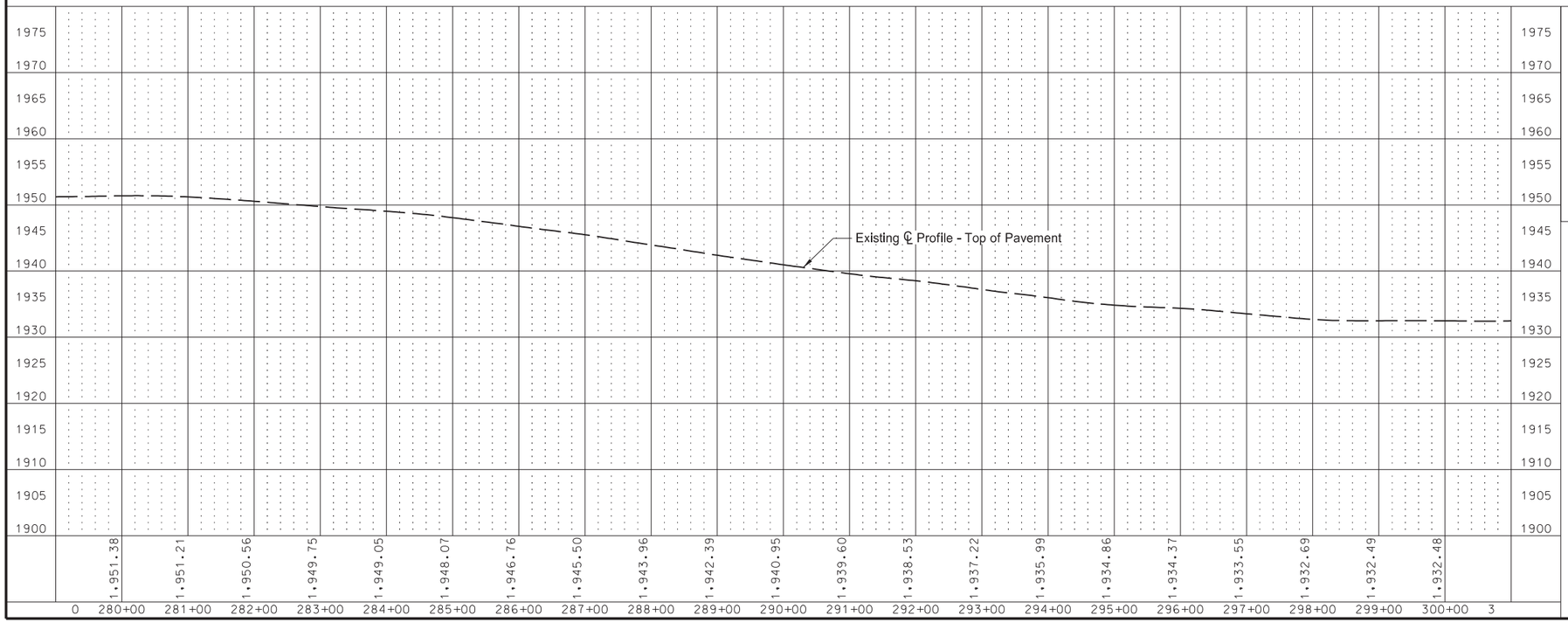
Sta 260+00 to Sta 280+00

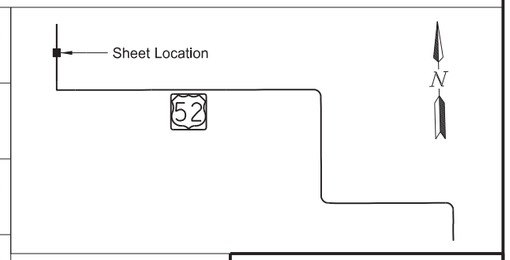
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 4 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 289+95 - CL (Lt) | 20 | LF |
| | | Sta 298+89 - CL (Lt) | 8 | LF |
| | | Sta 299+00 - CL (Lt) | 8 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 289+95 - CL (Lt) | 1 | EA |
| | | Sta 298+89 - CL (Lt) | 1 | EA |
| | | Sta 299+00 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 289+95 - CL (Lt) | 1 | EA |
| | | Sta 298+89 - CL (Lt) | 1 | EA |
| | | Sta 299+00 - CL (Lt) | 1 | EA |




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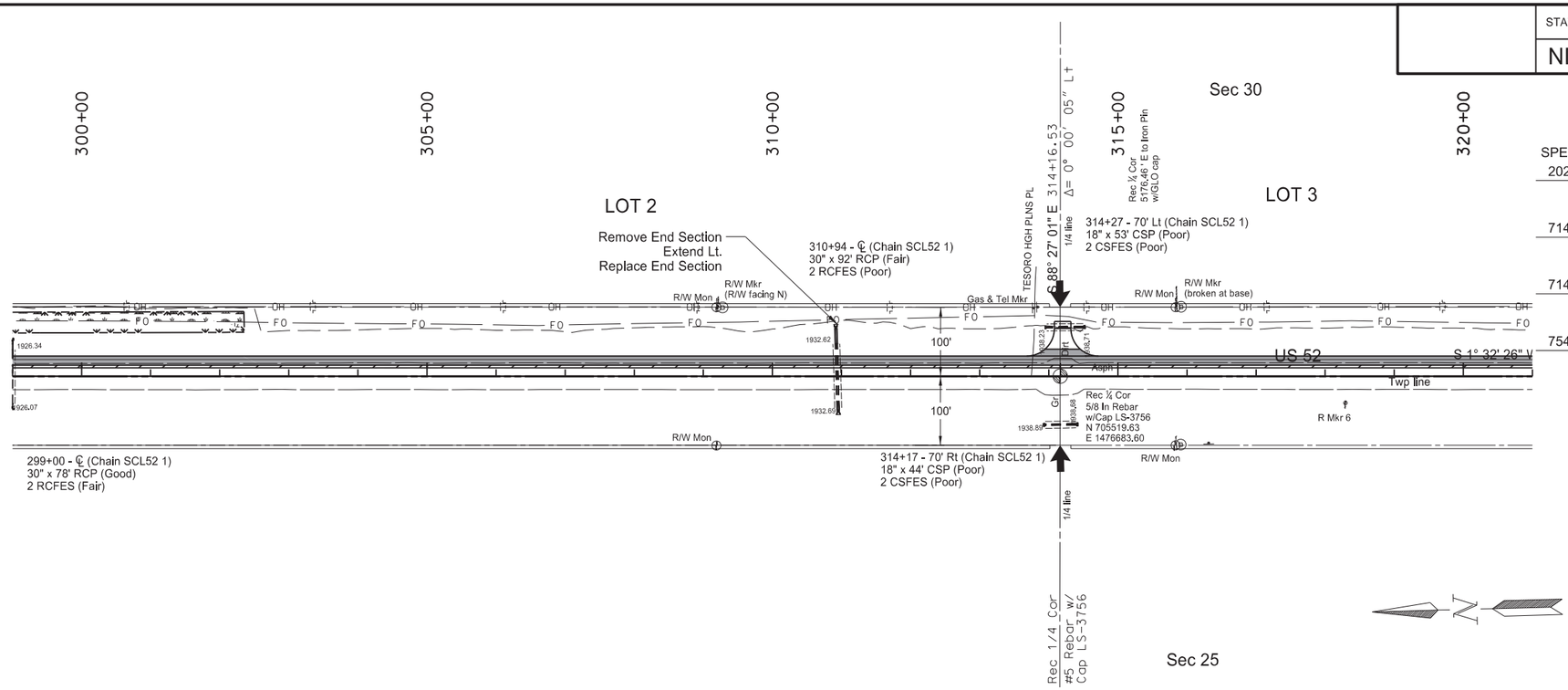
Plan and Profile

Passing Lane #1

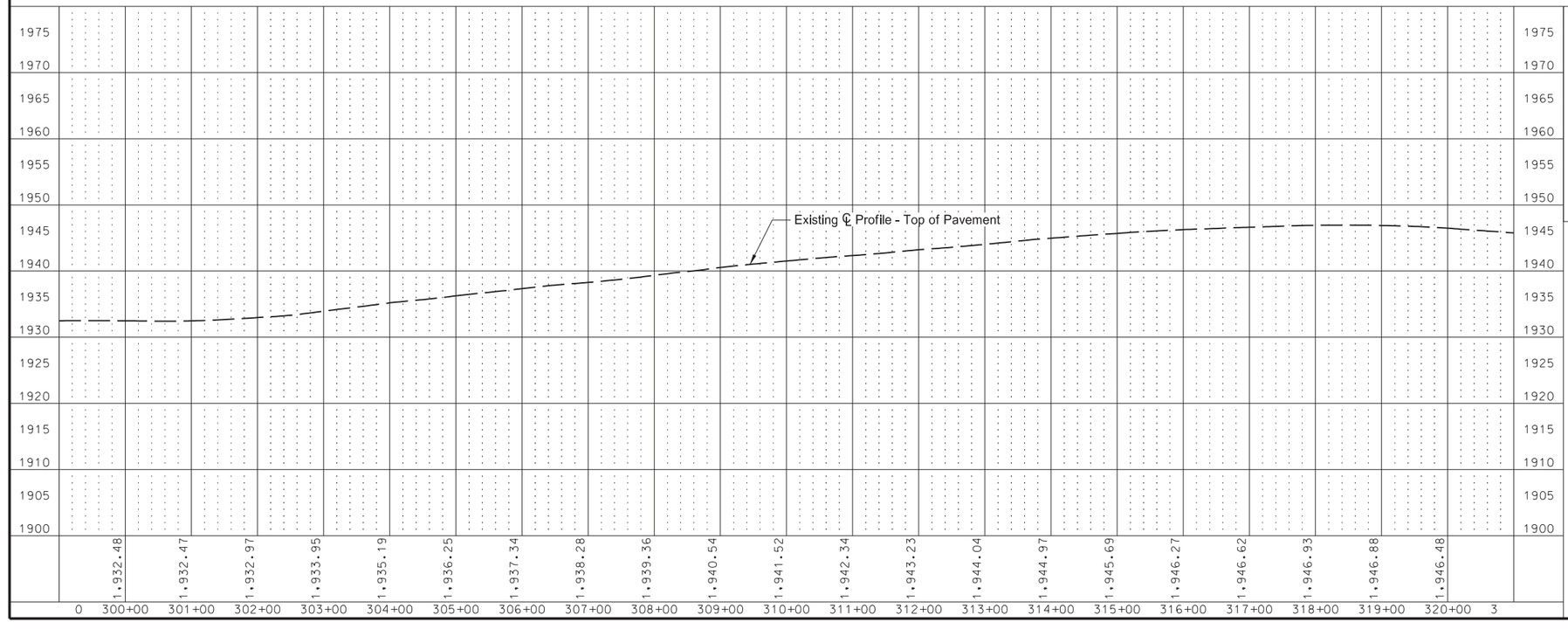
Sta 280+00 to Sta 300+00

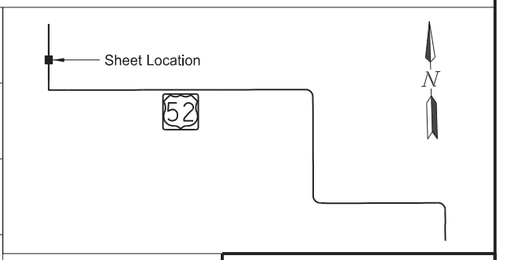
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 5 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 310+94 - CL (Lt) | 1 | EA |
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 310+94 - CL (Lt) | 22 | LF |
| 714 | 3030 | END SECT-CONC REINF 30IN | | |
| | | Sta 310+94 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 310+94 - CL (Lt) | 1 | EA |




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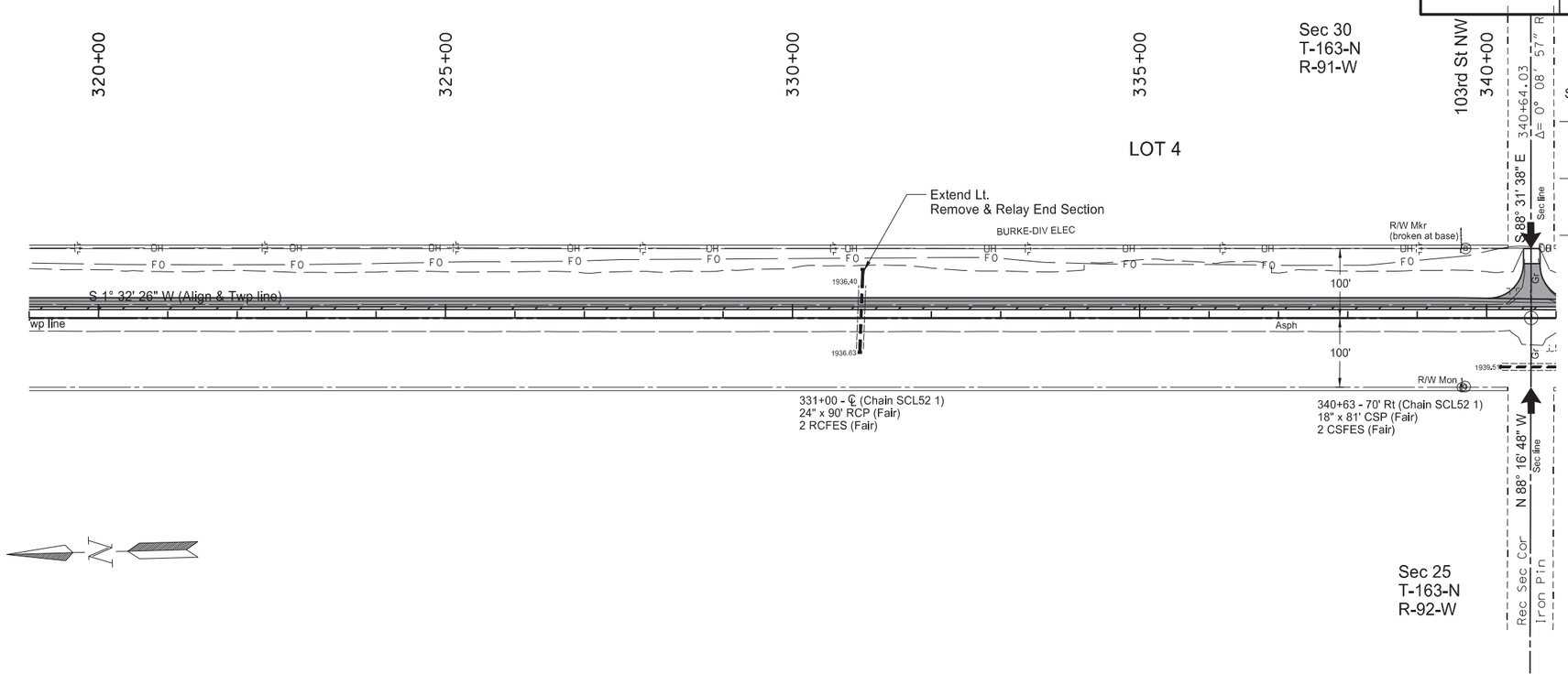
Plan and Profile

Passing Lane #1

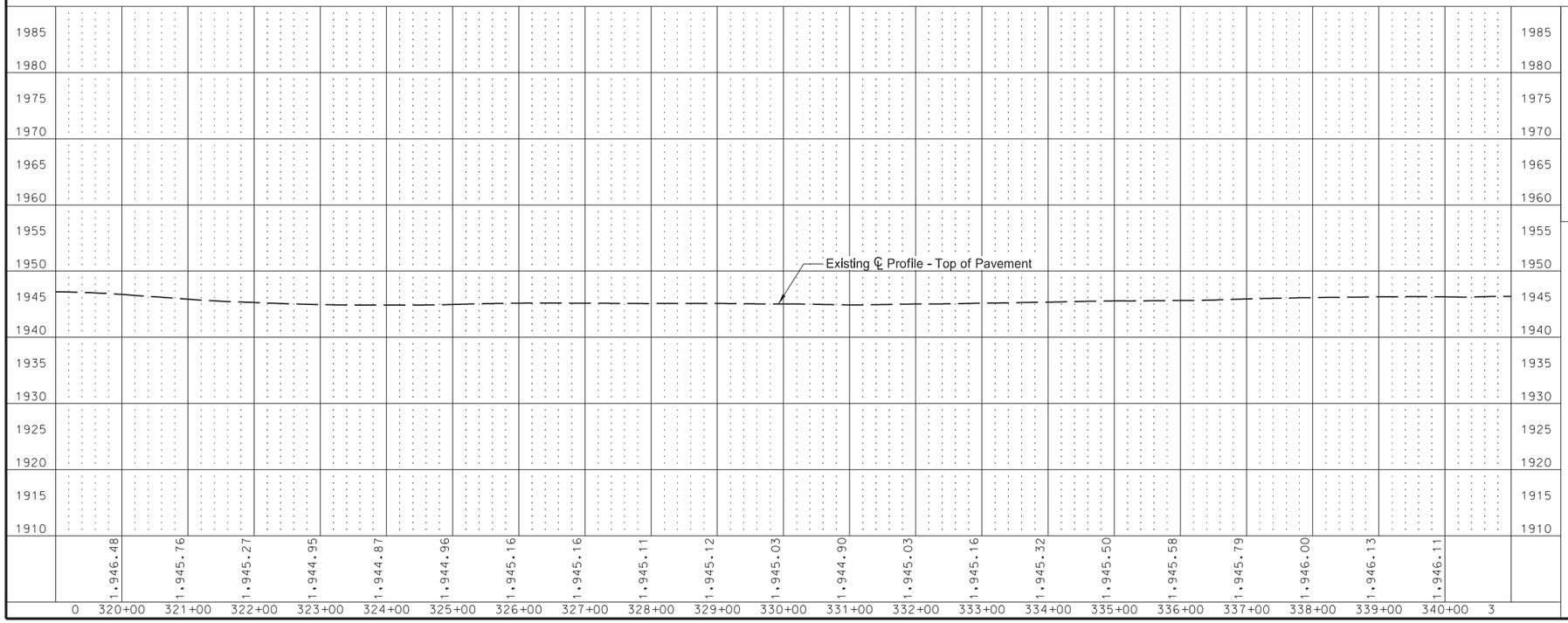
Sta 300+00 to Sta 320+00

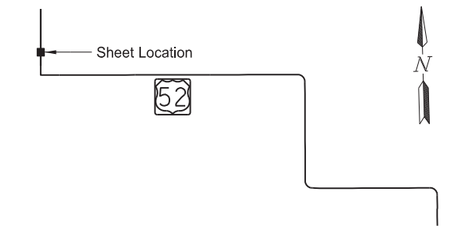
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 6 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 331+00 - CL (Lt) | 18 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 331+00 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 331+00 - CL (Lt) | 1 | EA |



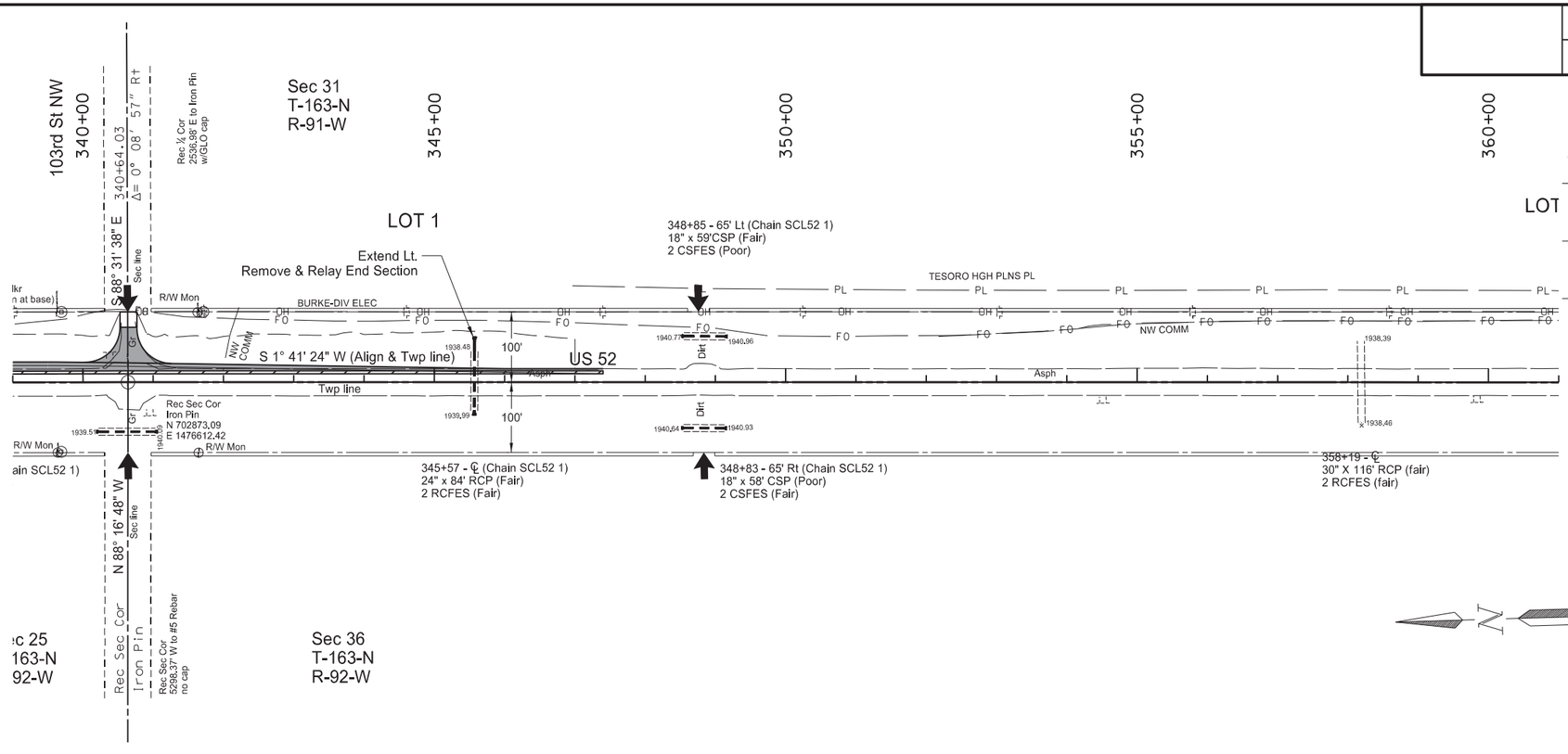

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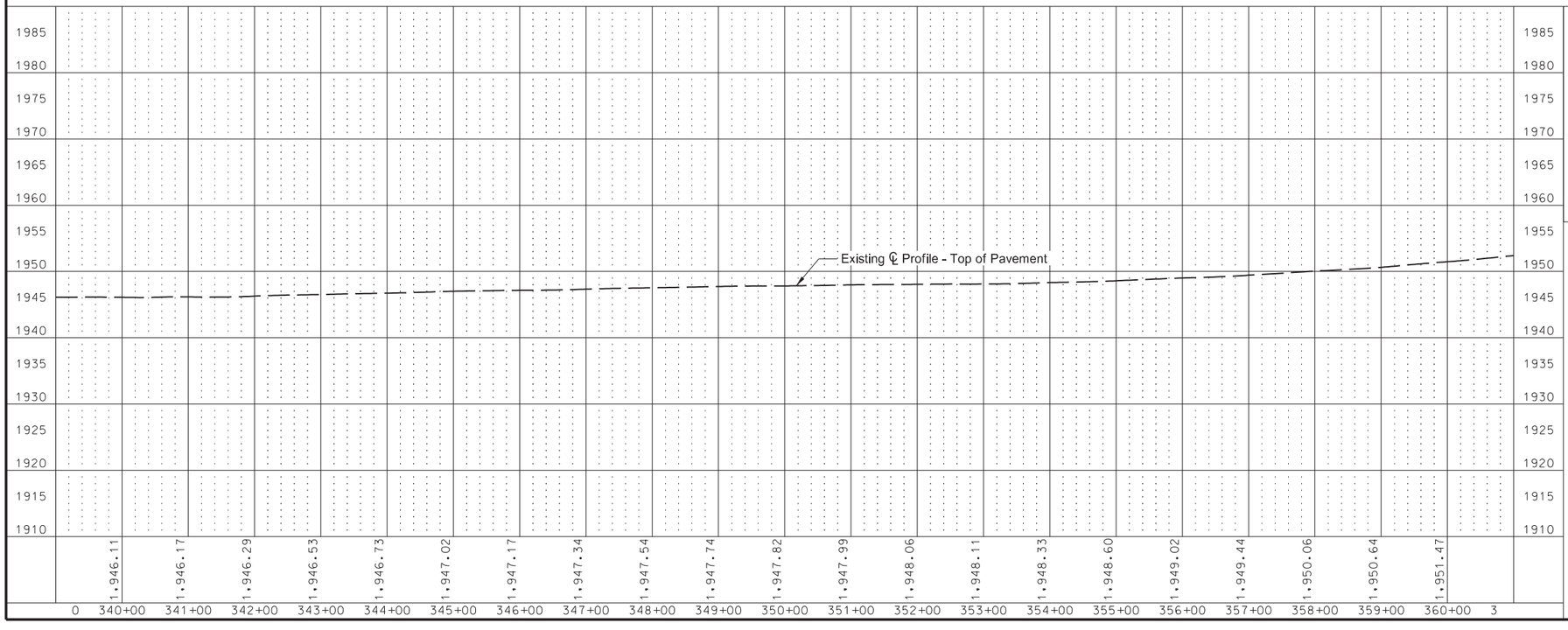
Passing Lane #1

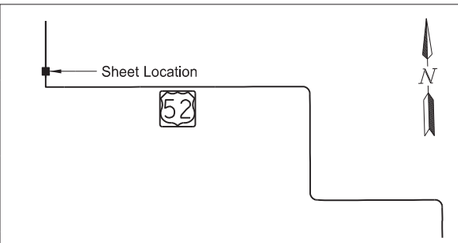
Sta 320+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 7 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 345+57 - CL (Lt) | 14 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 345+57 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 345+57 - CL (Lt) | 1 | EA |




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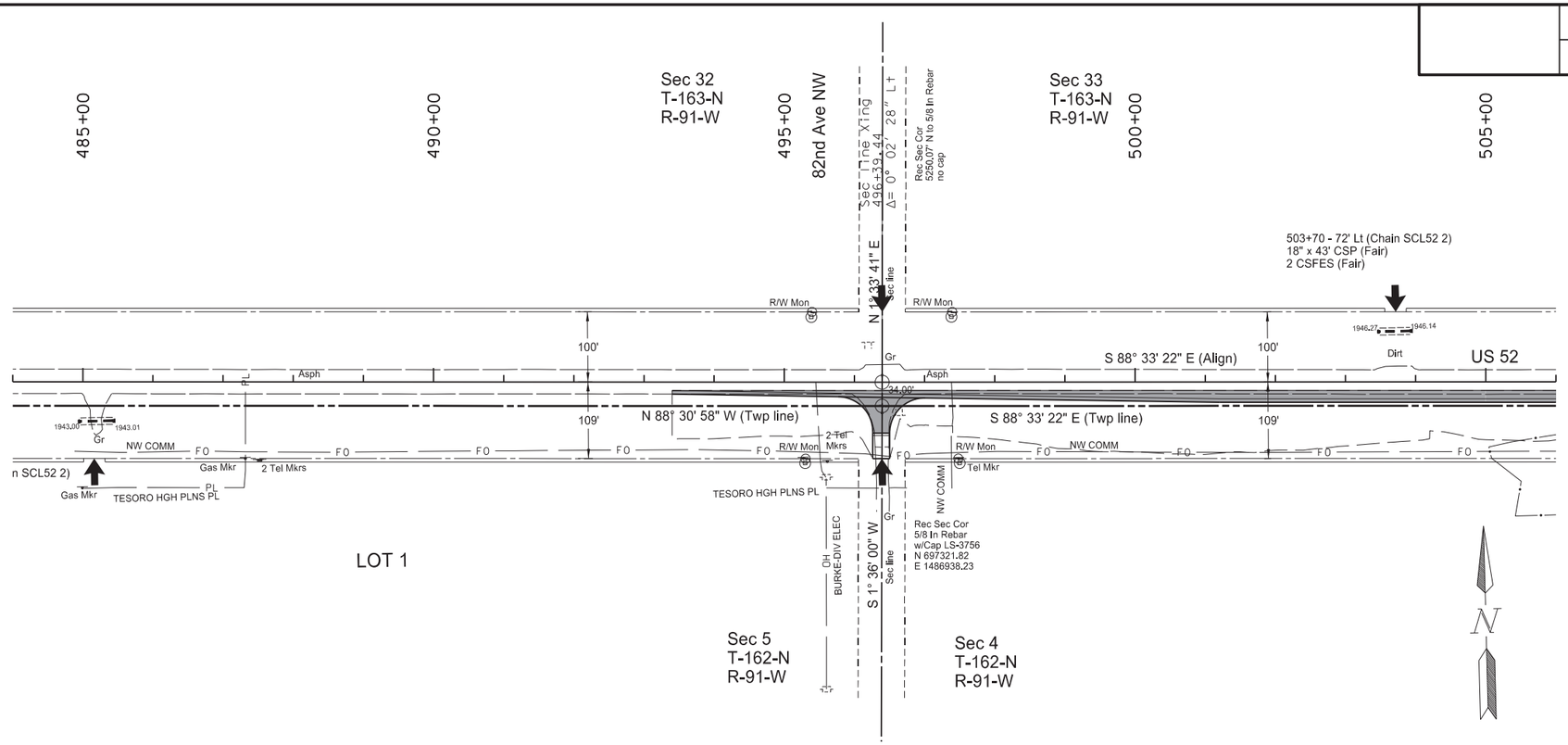
Plan and Profile

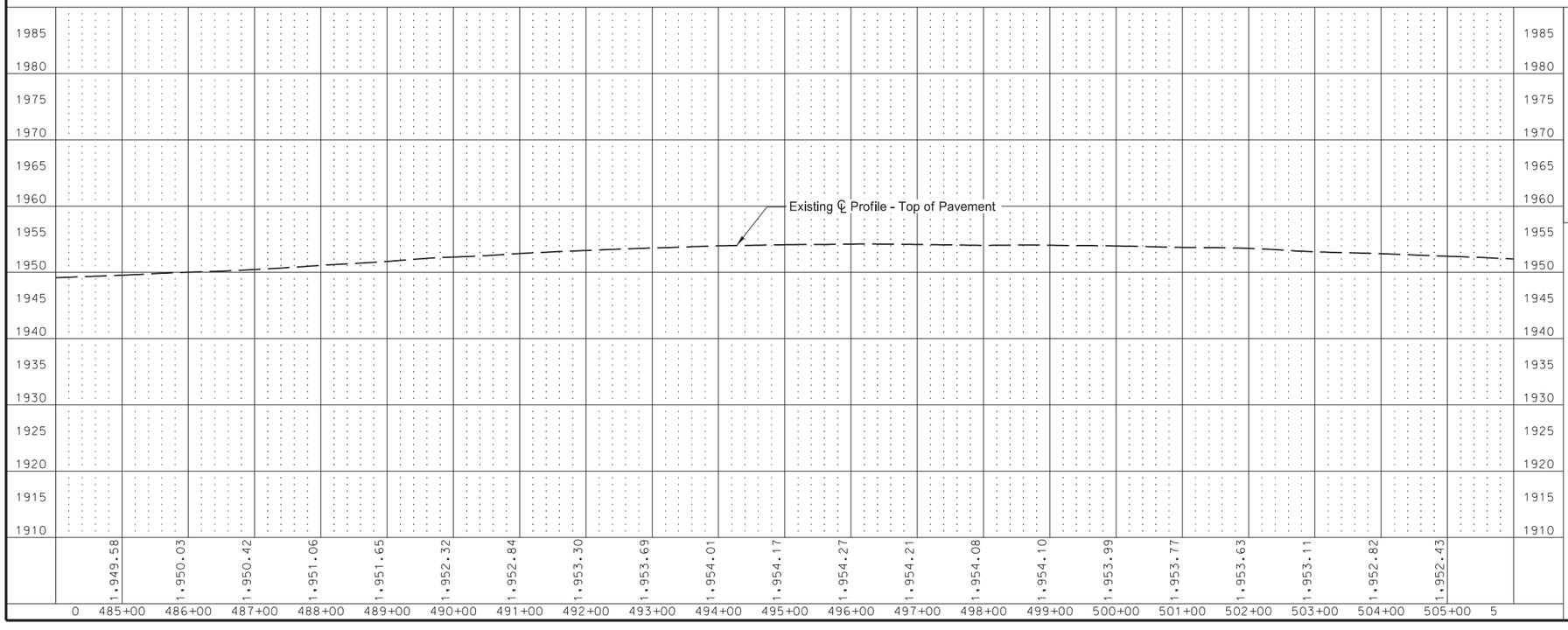
Passing Lane #1

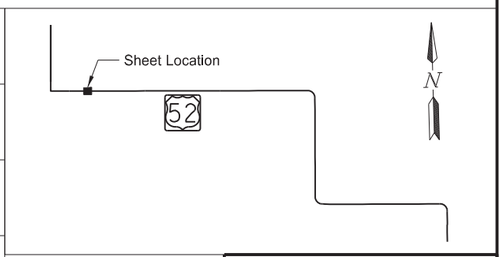
Sta 340+00 to Sta 360+00

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 8 |




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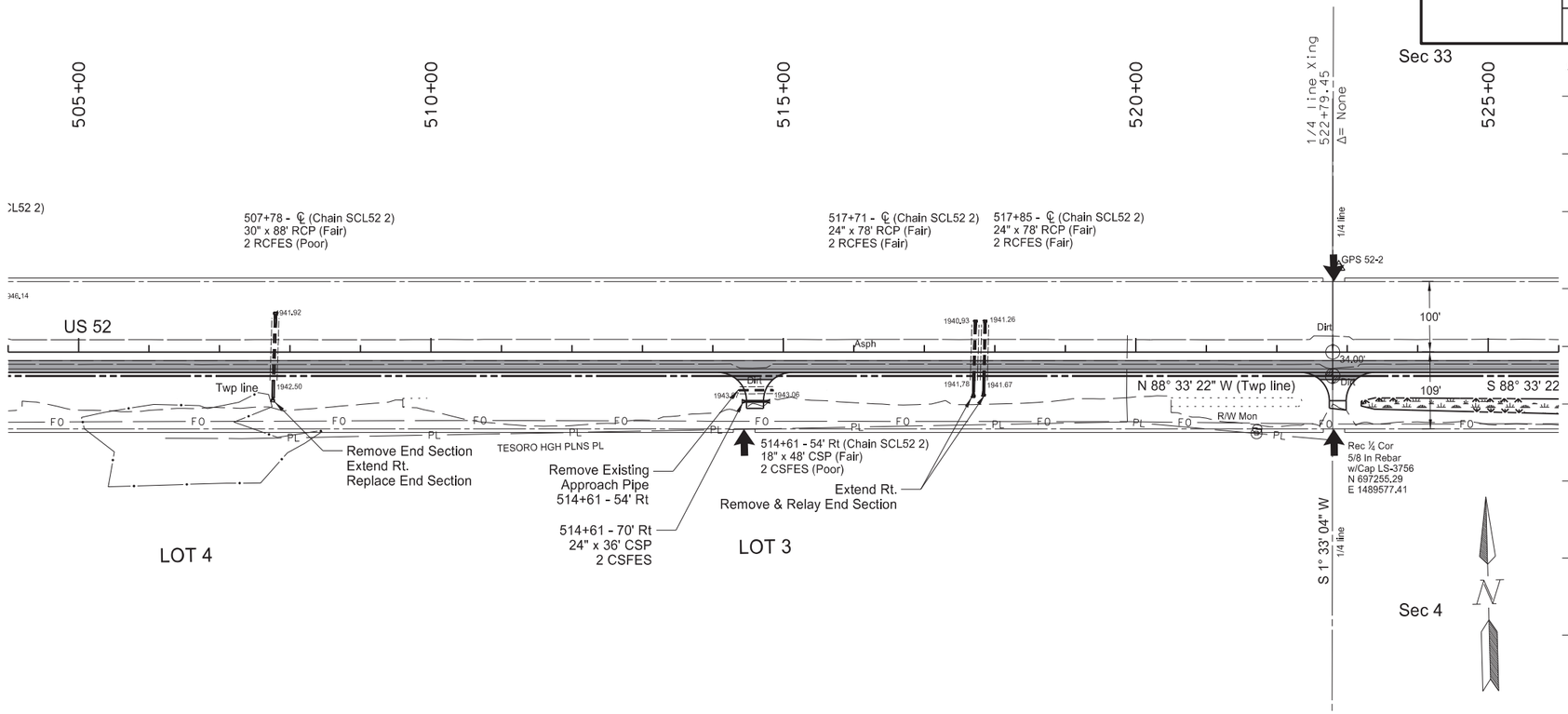
Plan and Profile

Passing Lane #2

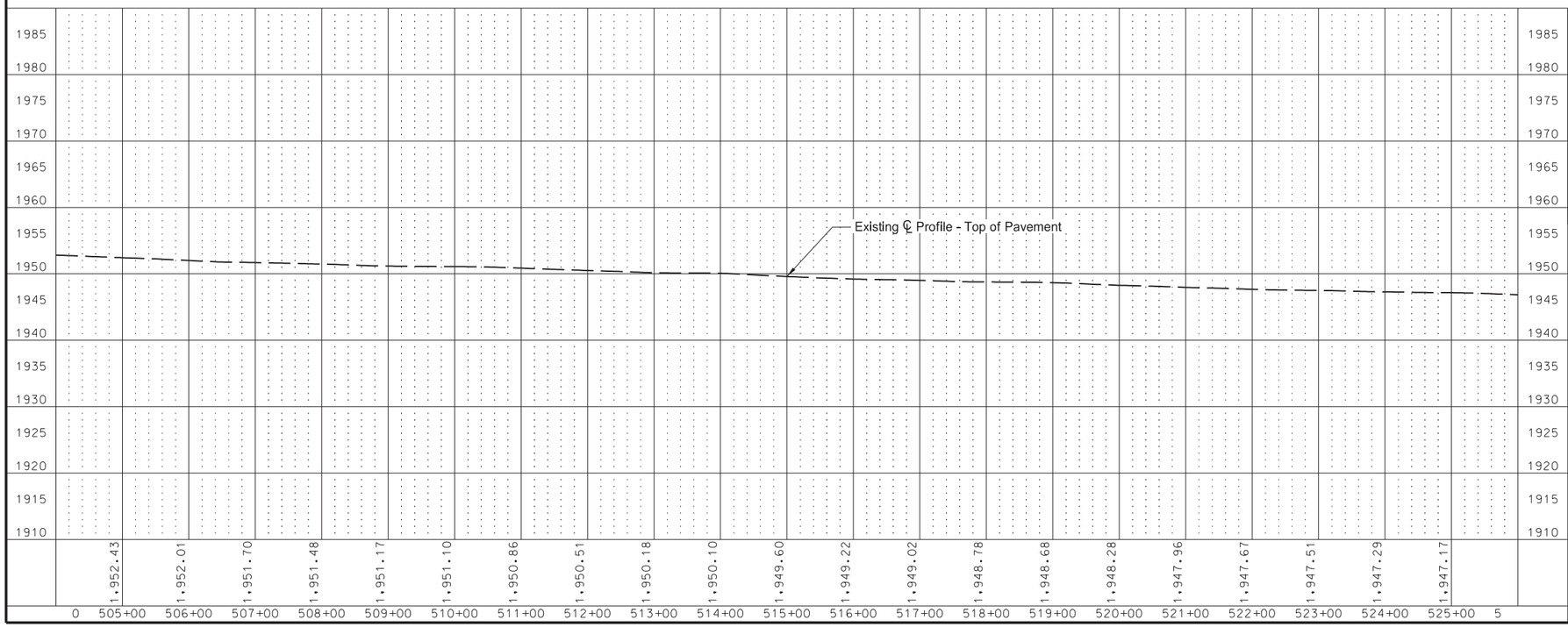
Sta 485+00 to Sta 505+00

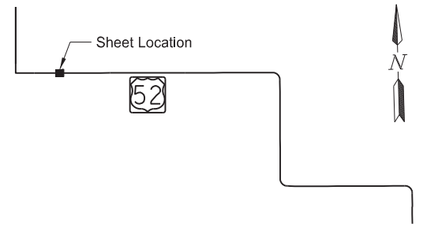
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 9 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 507+78 - CL (Rt) | 1 | EA |
| 202 | 174 | REMOVAL OF PIPE ALL TYPES AND SIZES | | |
| | | Sta 514+61 - 54' Rt | 48 | LF |
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 517+71 - CL (Rt) | 16 | LF |
| | | Sta 517+85 - CL (Rt) | 16 | LF |
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 507+78 - CL (Rt) | 24 | LF |
| 714 | 3030 | END SECT-CONC REINF 30IN | | |
| | | Sta 507+78 - CL (Rt) | 1 | EA |
| 714 | 5035 | PIPE CORR STEEL .064IN 24IN | | |
| | | Sta 514+61 - 70' Rt (Bk) | 16 | LF |
| | | Sta 514+61 - 70' Rt (Ahd) | 16 | LF |
| 714 | 5820 | END SECT CORR STEEL .064IN 24IN | | |
| | | Sta 514+61 - 70' Rt (Bk) | 1 | EA |
| | | Sta 514+61 - 70' Rt (Ahd) | 1 | EA |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 517+71 - CL (Rt) | 1 | EA |
| | | Sta 517+85 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 507+78 - CL (Rt) | 1 | EA |
| | | Sta 514+61 - 70' Rt (Bk) | 1 | EA |
| | | Sta 514+61 - 70' Rt (Ahd) | 1 | EA |
| | | Sta 517+71 - CL (Rt) | 1 | EA |
| | | Sta 517+85 - CL (Rt) | 1 | EA |




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Plan and Profile

Passing Lane #2

Sta 505+00 to Sta 525+00

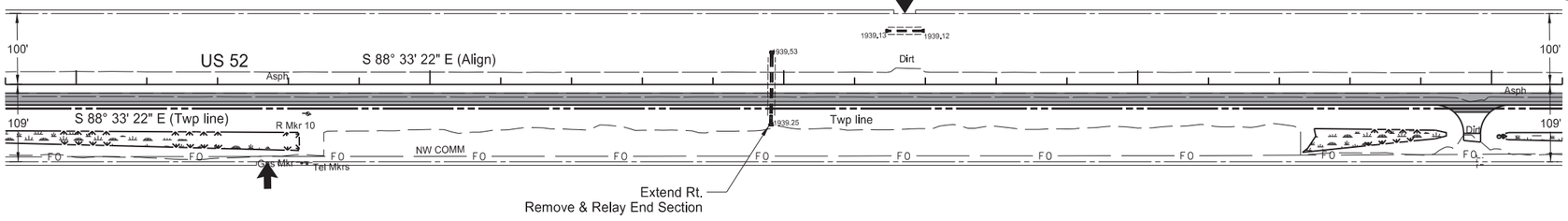
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 10 |

:c 33

525+00 530+00 535+00 540+00 545+00

534+83 - ℄ (Chain SCL52 2)
30" x 82' RCP (Fair)
2 RCFES (Fair)

536+72 - 75' Lt (Chain SCL52 2)
18" x 48' CSP (Poor)
2 CSFES (Poor)

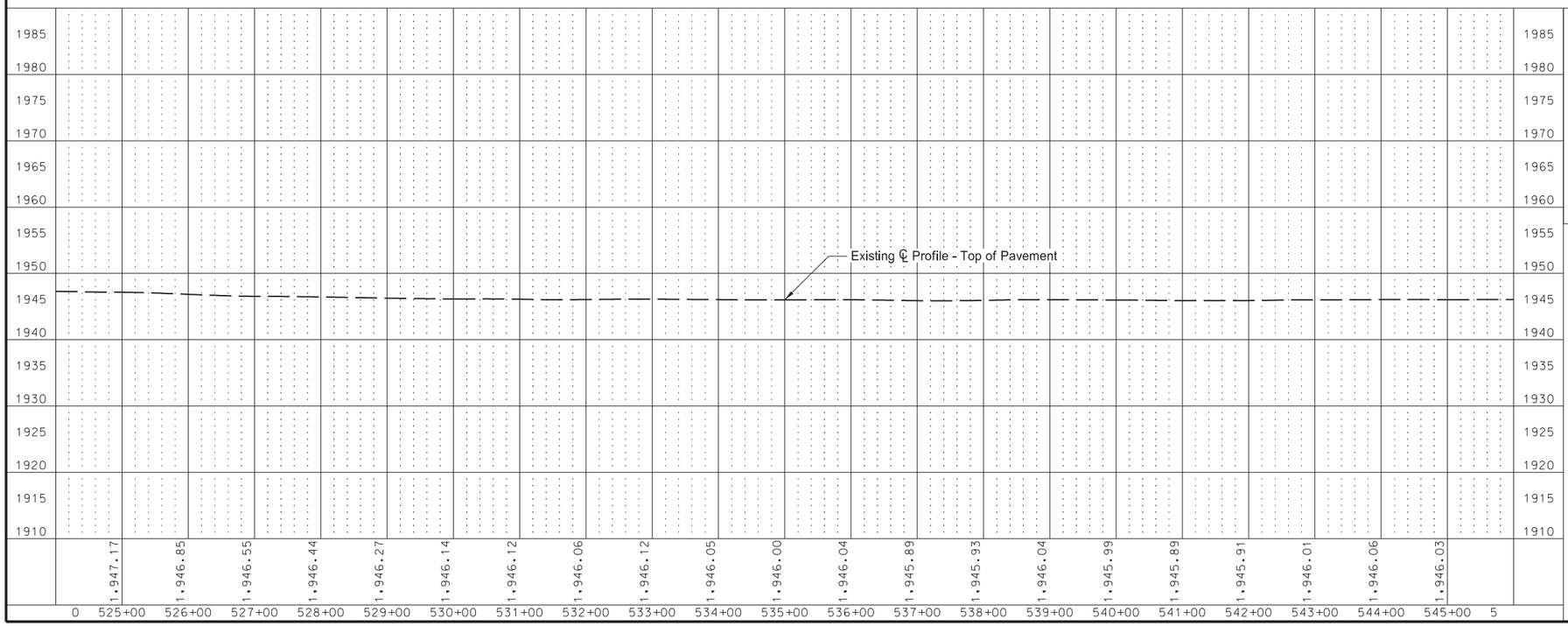


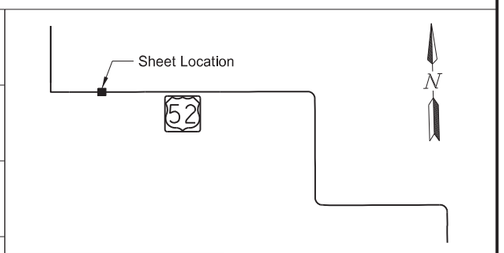

LOT 2

LOT 1

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 534+83 - CL (Rt) | 6 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 534+83 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 534+83 - CL (Rt) | 1 | EA |

:c 4



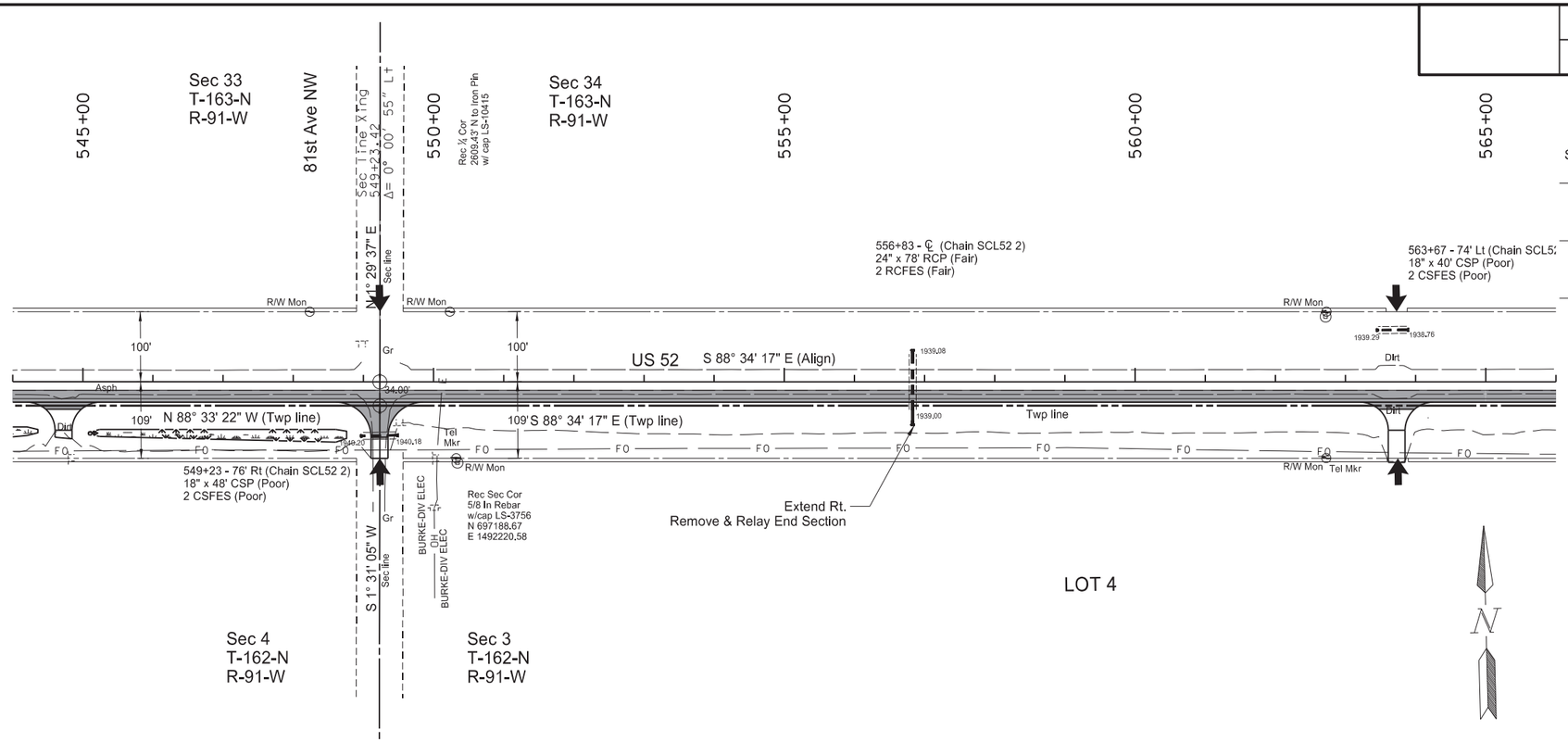

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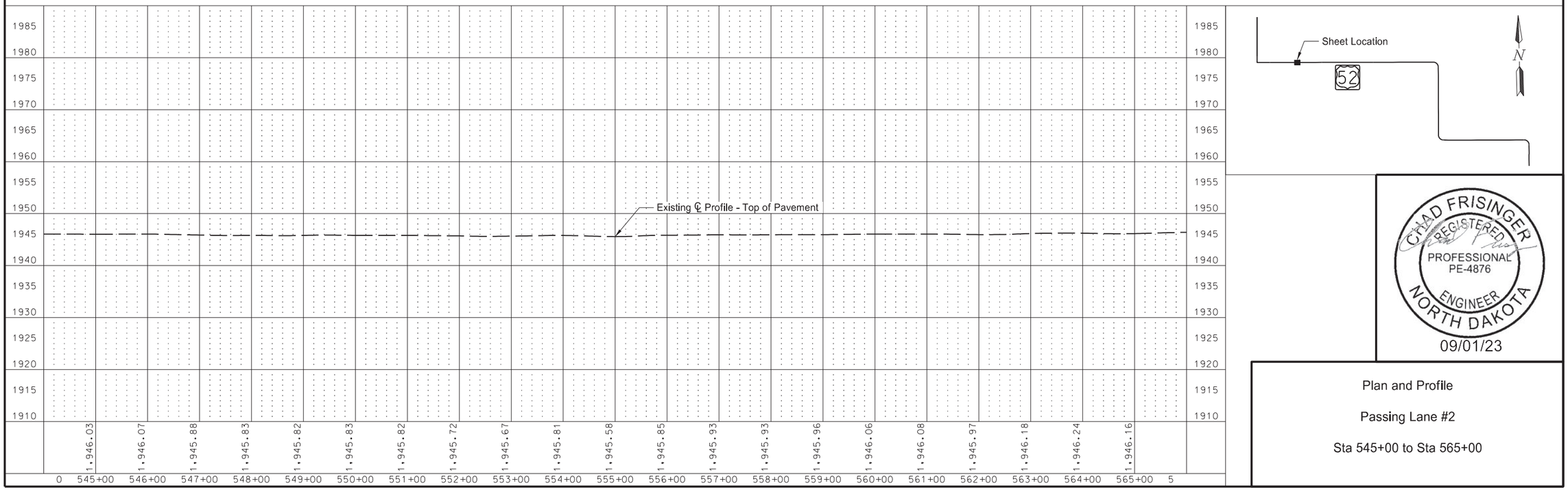
Passing Lane #2

Sta 525+00 to Sta 545+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 11 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 556+83 - CL (Rt) | 16 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 556+83 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 556+83 - CL (Rt) | 1 | EA |







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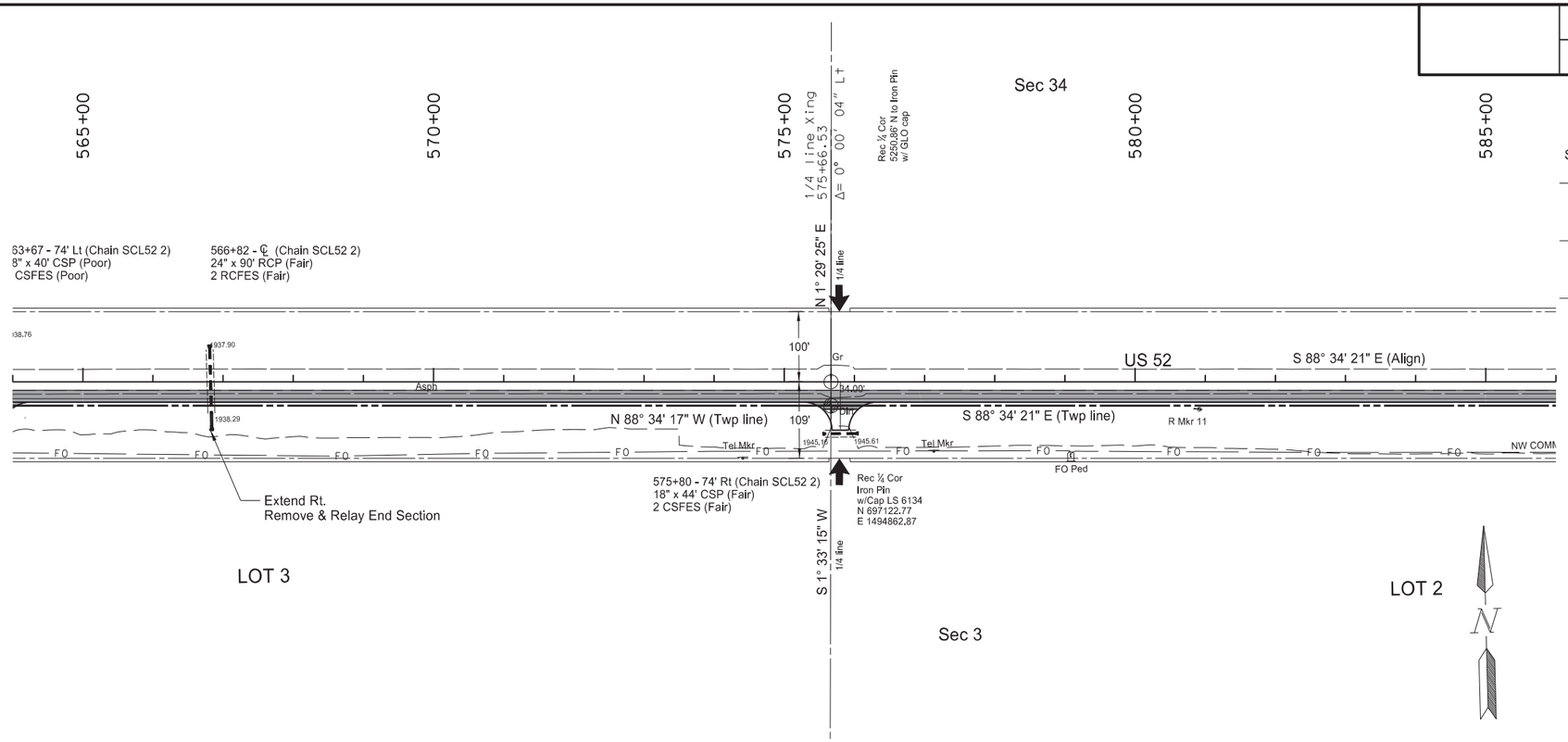
Plan and Profile

Passing Lane #2

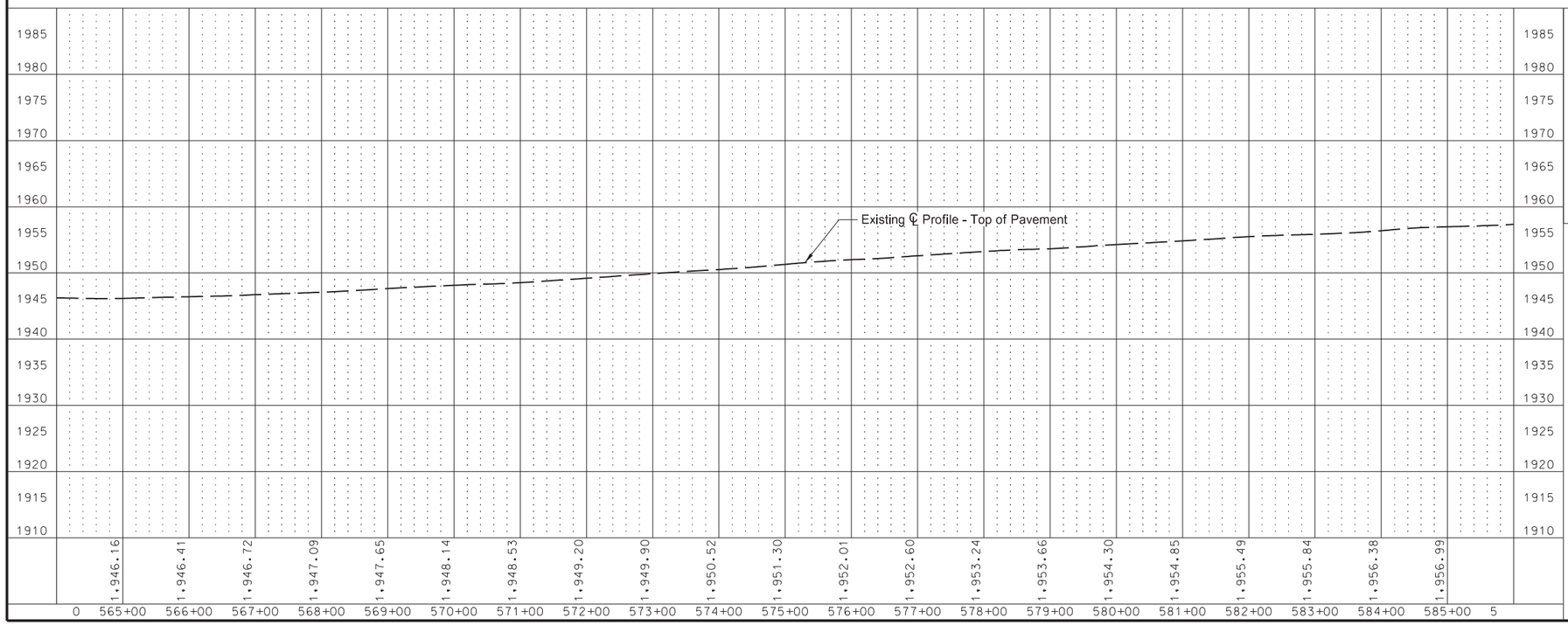
Sta 545+00 to Sta 565+00

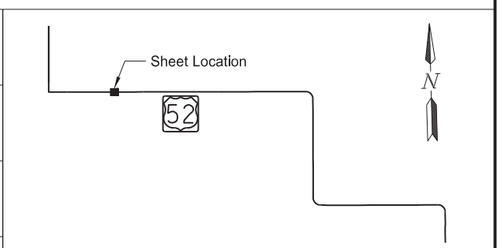
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 12 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 566+82 - CL (Rt) | 18 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 566+82 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 566+82 - CL (Rt) | 1 | EA |




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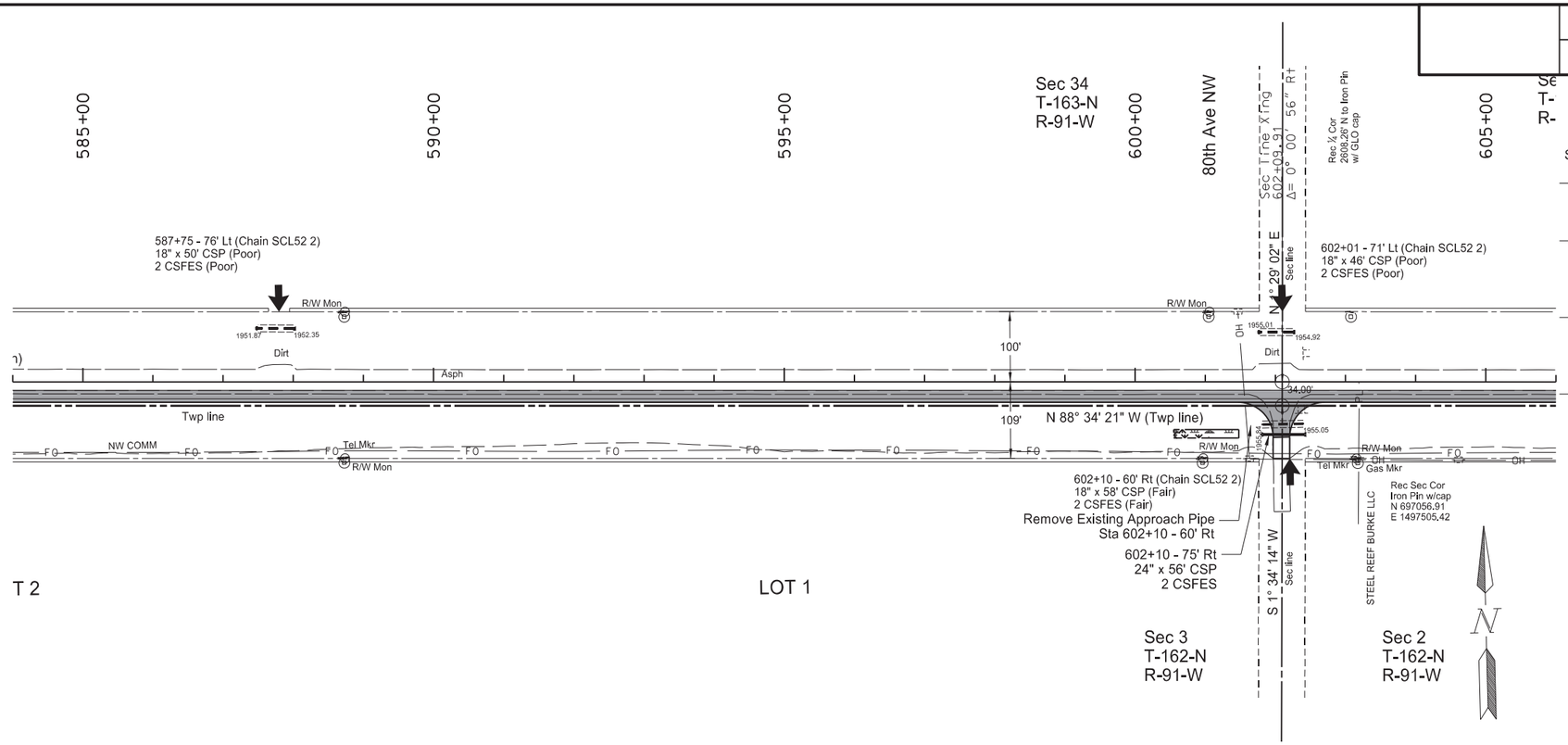
Plan and Profile

Passing Lane #2

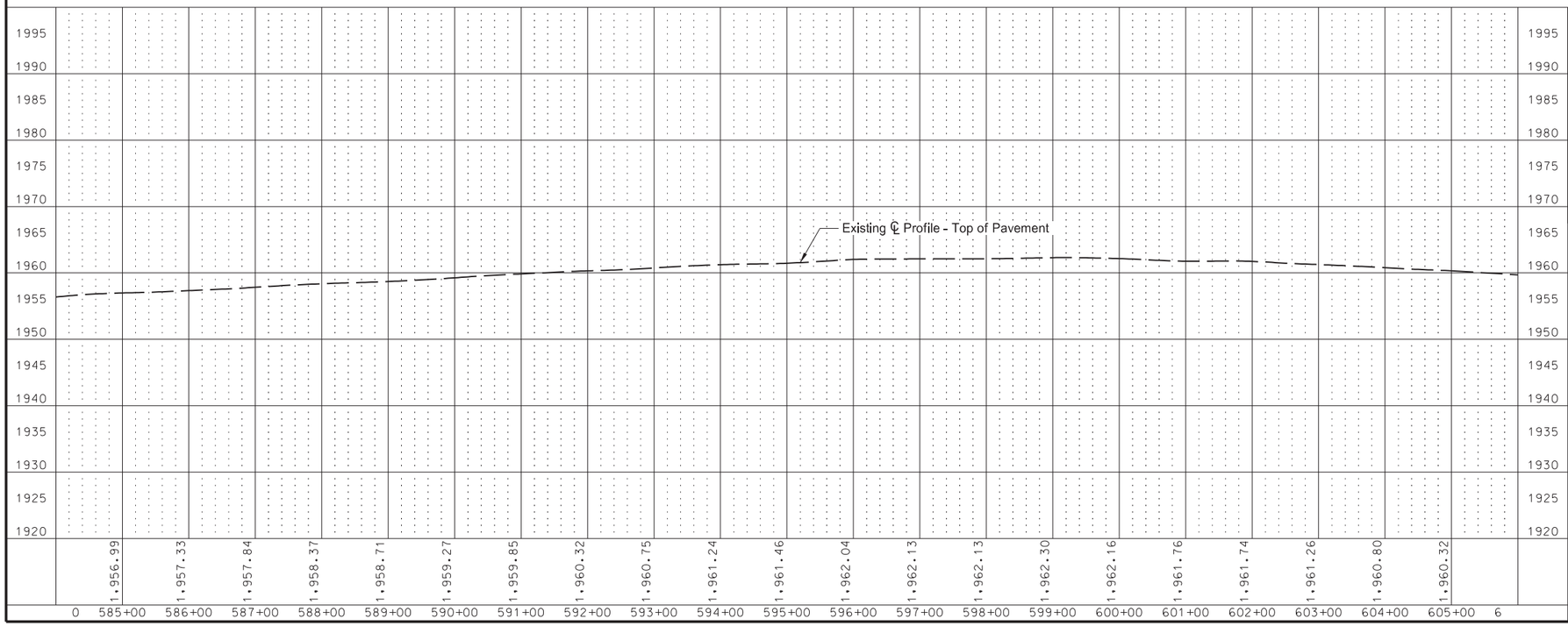
Sta 565+00 to Sta 585+00

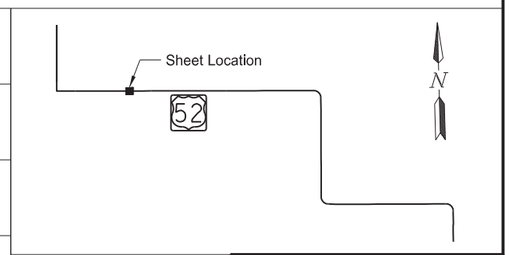
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 13 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 174 | REMOVAL OF PIPE ALL TYPES AND SIZES | | |
| | | Sta 602+10 - 60' Rt | 58 | LF |
| 714 | 5035 | PIPE CORR STEEL .064IN 24IN | | |
| | | Sta 602+10 - 75' Rt (Bk) | 26 | LF |
| | | Sta 602+10 - 75' Rt (Ahd) | 30 | LF |
| 714 | 5820 | END SECT CORR STEEL .064IN 24IN | | |
| | | Sta 602+10 - 75' Rt (Bk) | 1 | EA |
| | | Sta 602+10 - 75' Rt (Ahd) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 602+10 - 75' Rt (Bk) | 1 | EA |
| | | Sta 602+10 - 75' Rt (Ahd) | 1 | EA |




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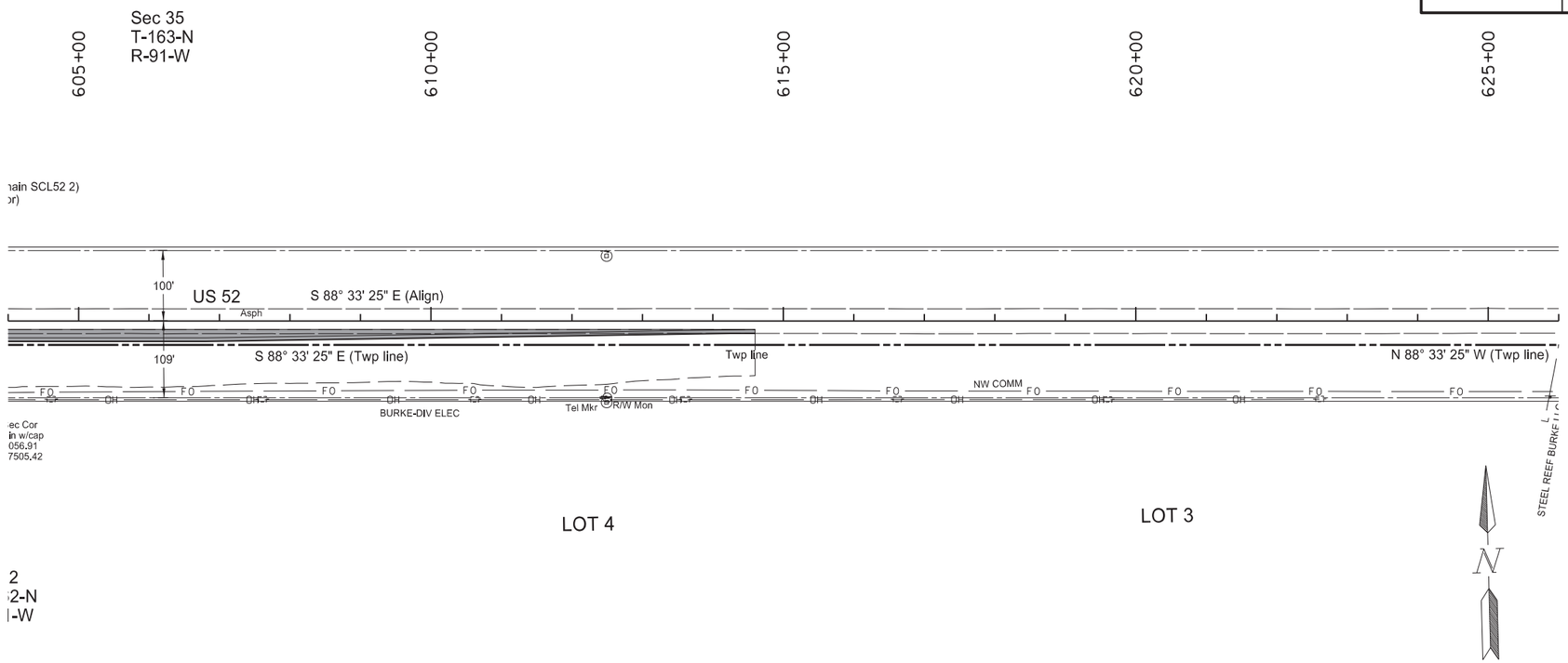
Plan and Profile

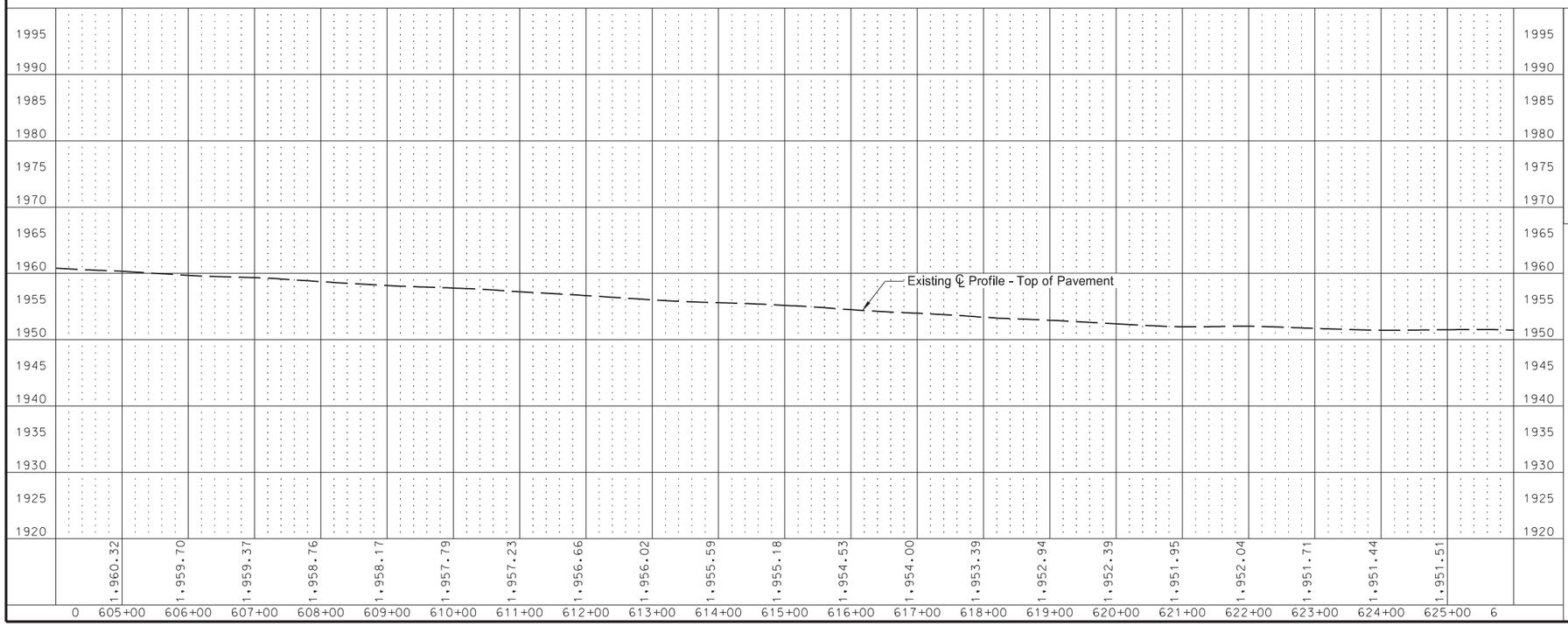
Passing Lane #2

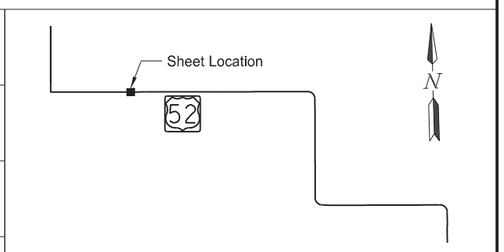
Sta 585+00 to Sta 605+00

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 14 |



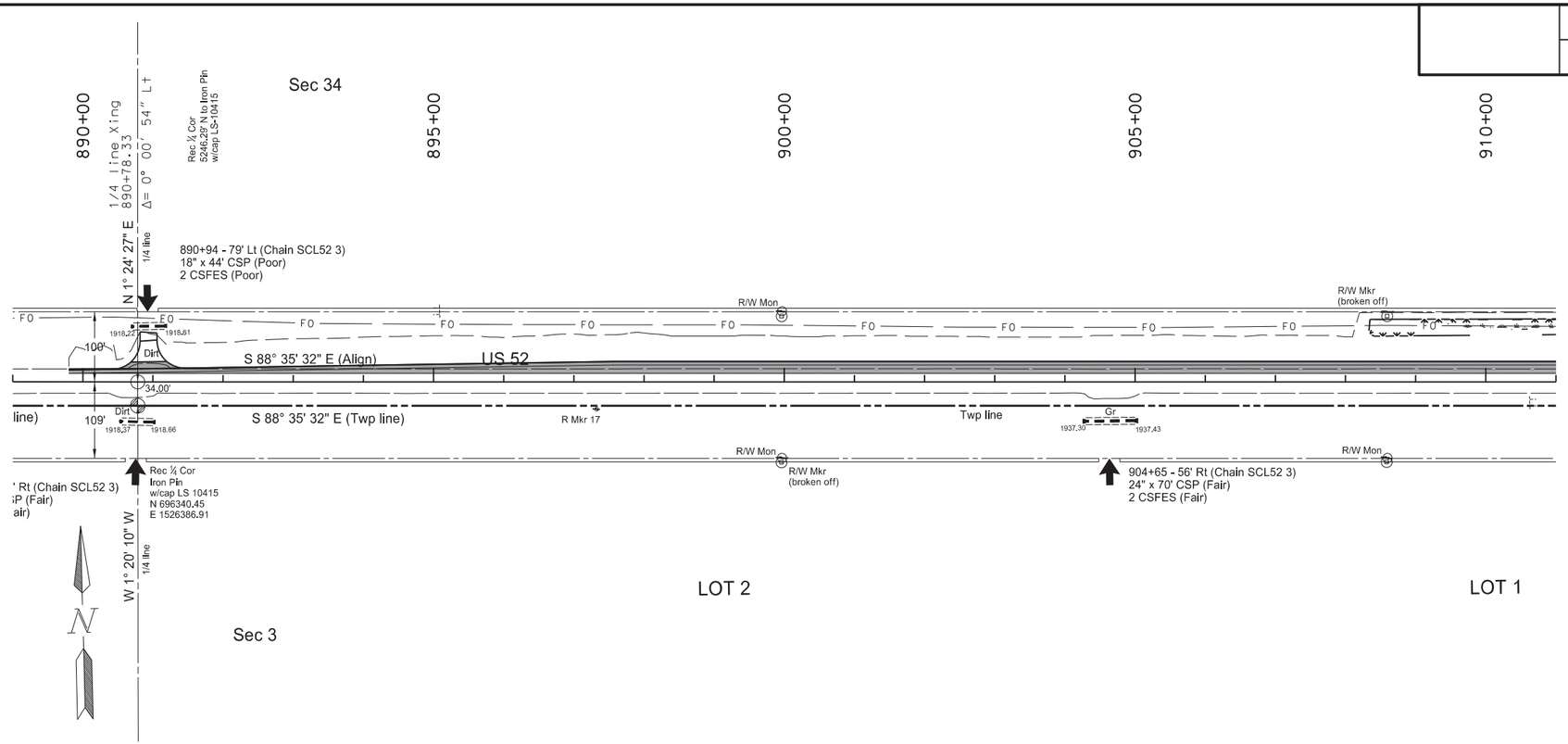

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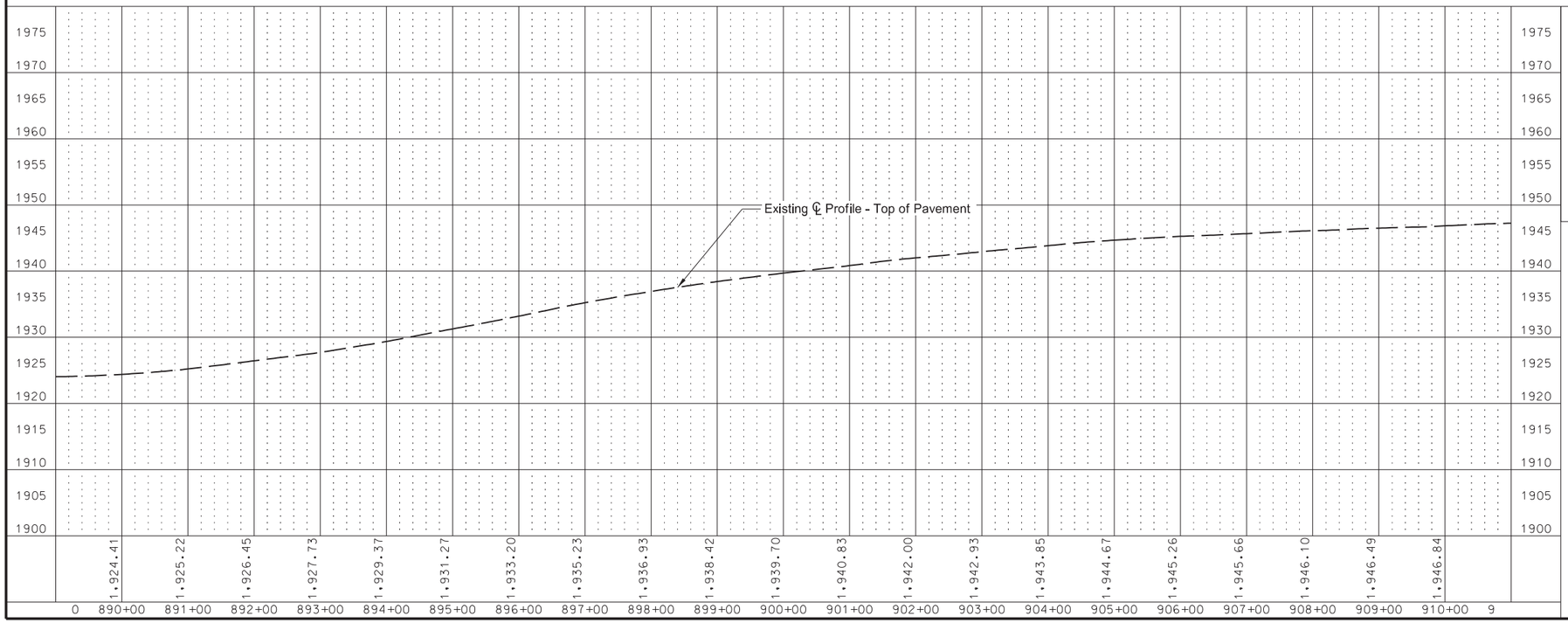
Plan and Profile

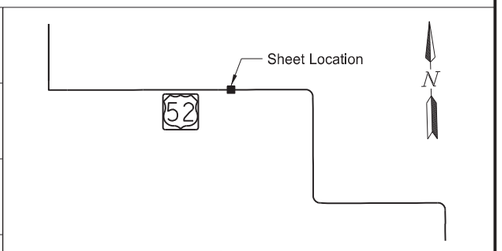
Passing Lane #2

Sta 605+00 to Sta 625+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 15 |




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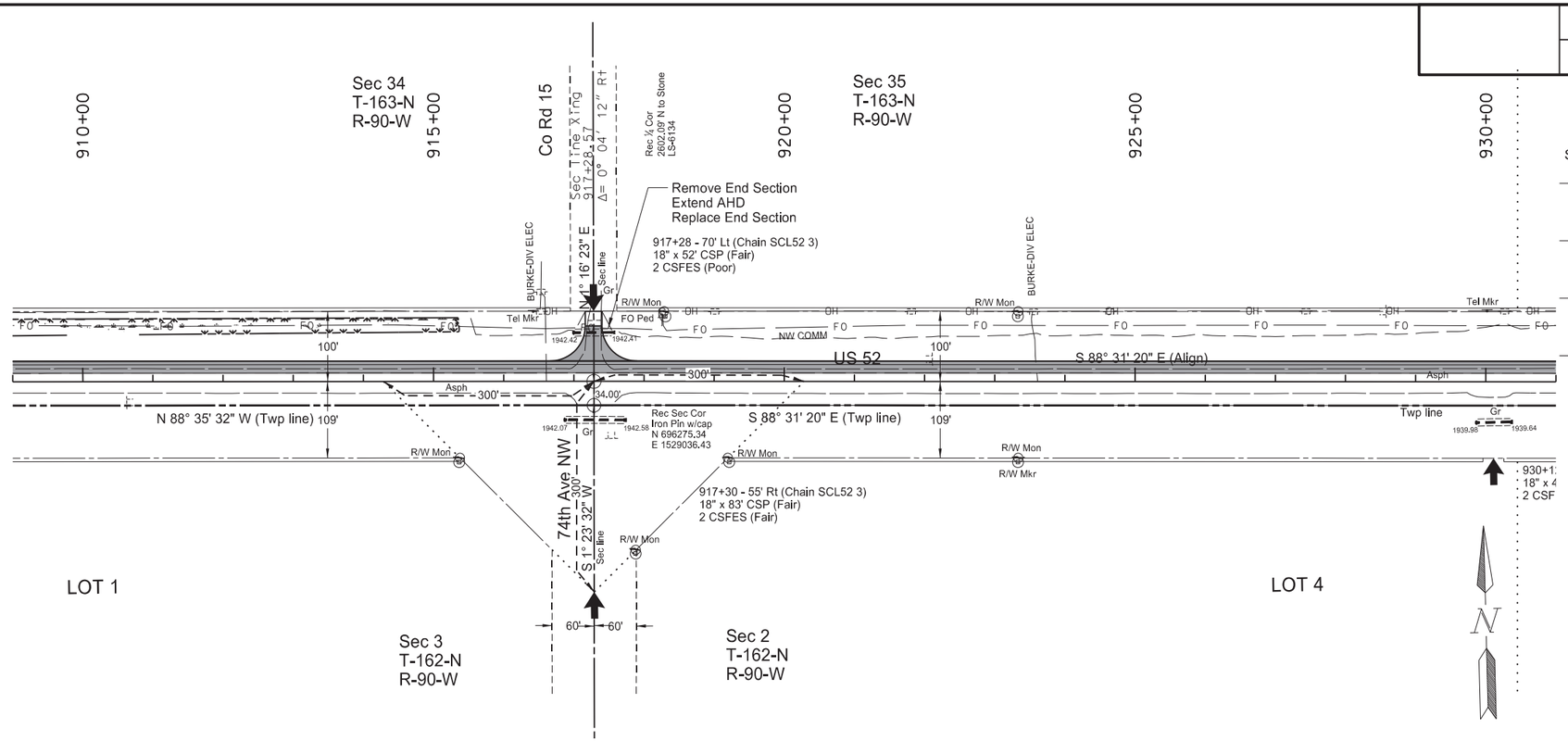
09/01/23

Plan and Profile

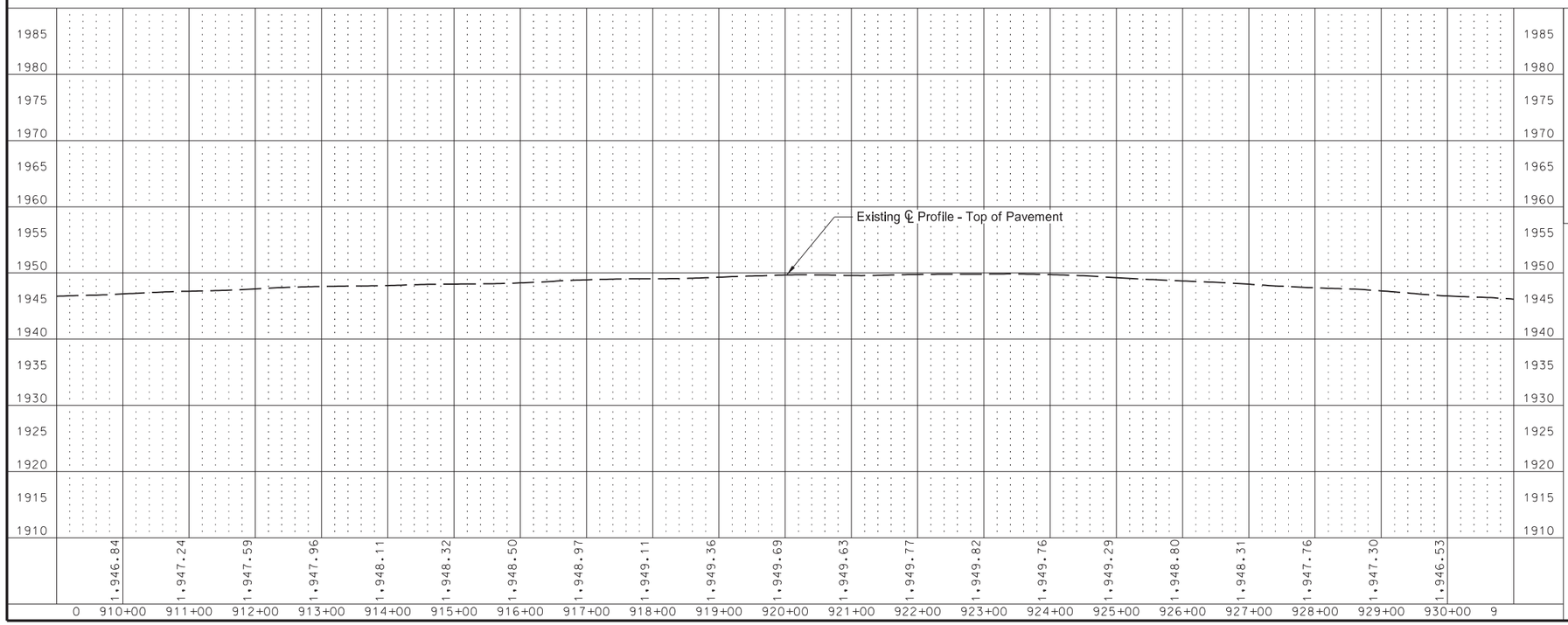
Passing Lane #3

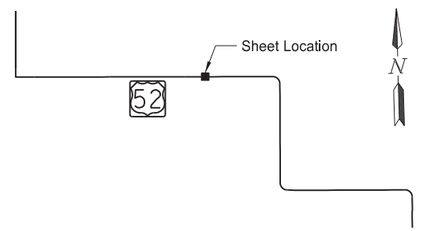
Sta 890+00 to Sta 910+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 16 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 917+28 - Lt (Ahd) | 1 | EA |
| 714 | 5015 | PIPE CORR STEEL .064IN 18IN | | |
| | | Sta 917+28 - Lt (Ahd) | 2 | LF |
| 714 | 5810 | END SECT CORR STEEL .064IN 18IN | | |
| | | Sta 917+28 - Lt (Ahd) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 917+28 - Lt (Ahd) | 1 | EA |




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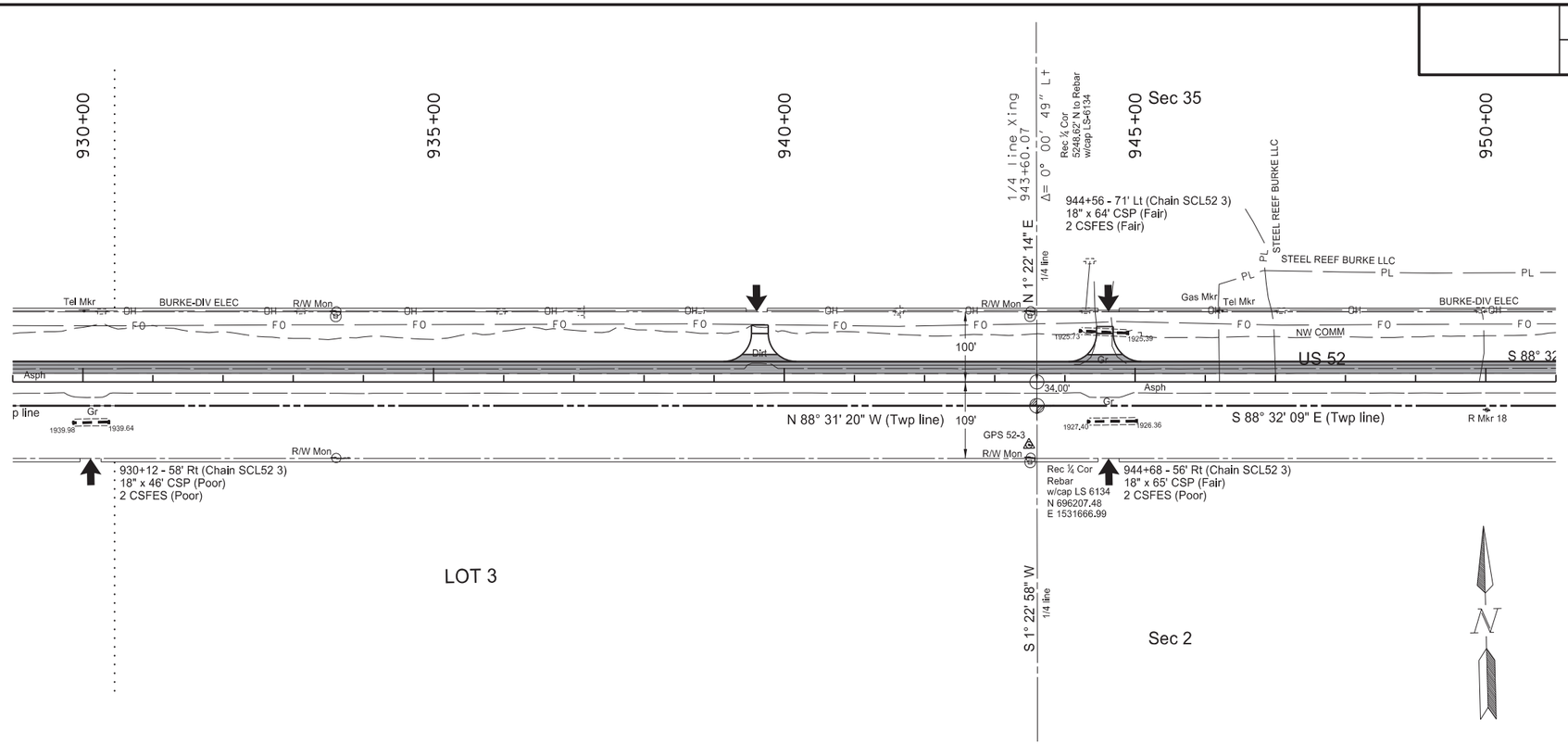
Plan and Profile

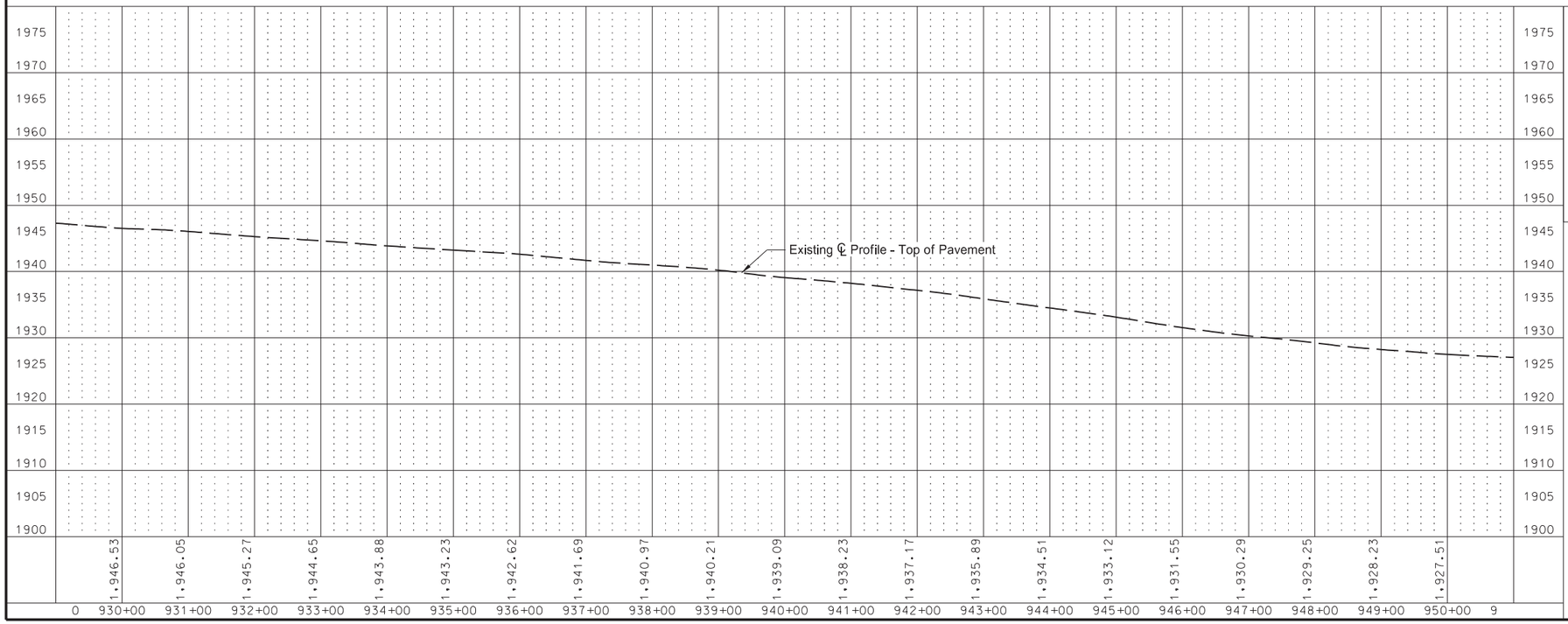
Passing Lane #3

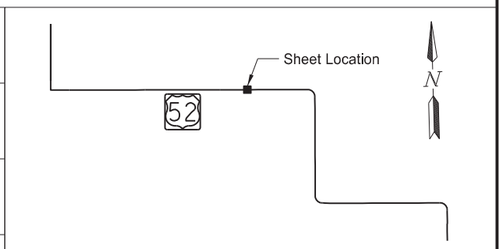
Sta 910+00 to Sta 930+00

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 17 |




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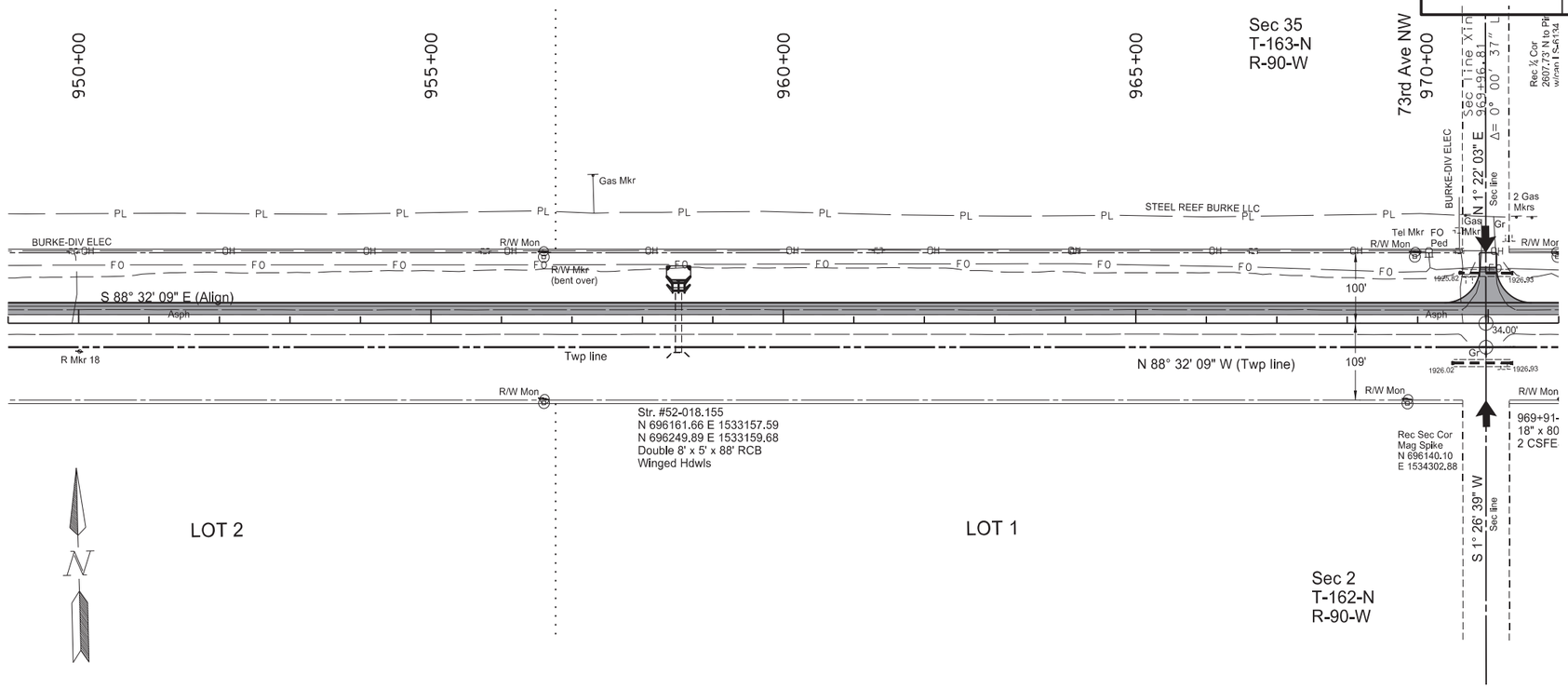
Plan and Profile

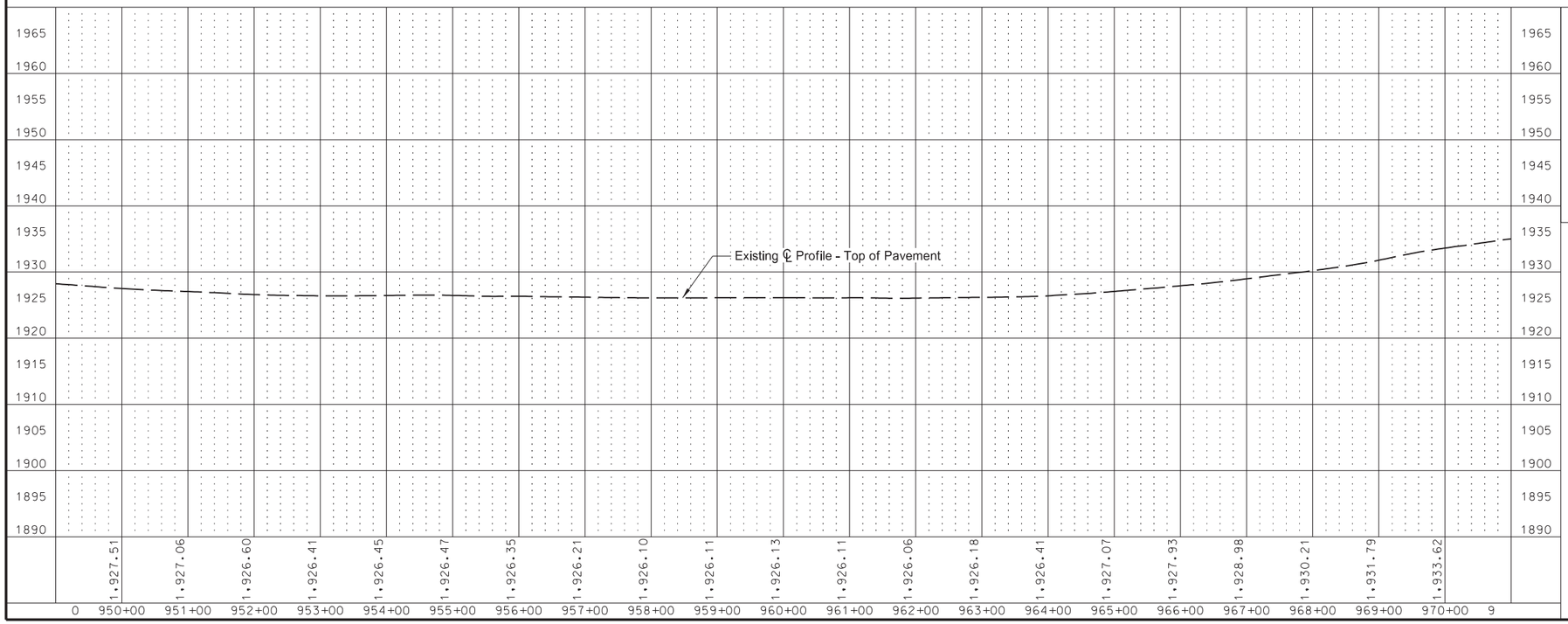
Passing Lane #3

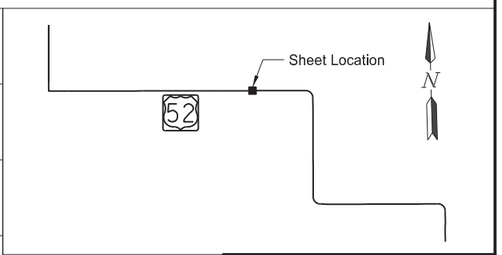
Sta 930+00 to Sta 950+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 18 |



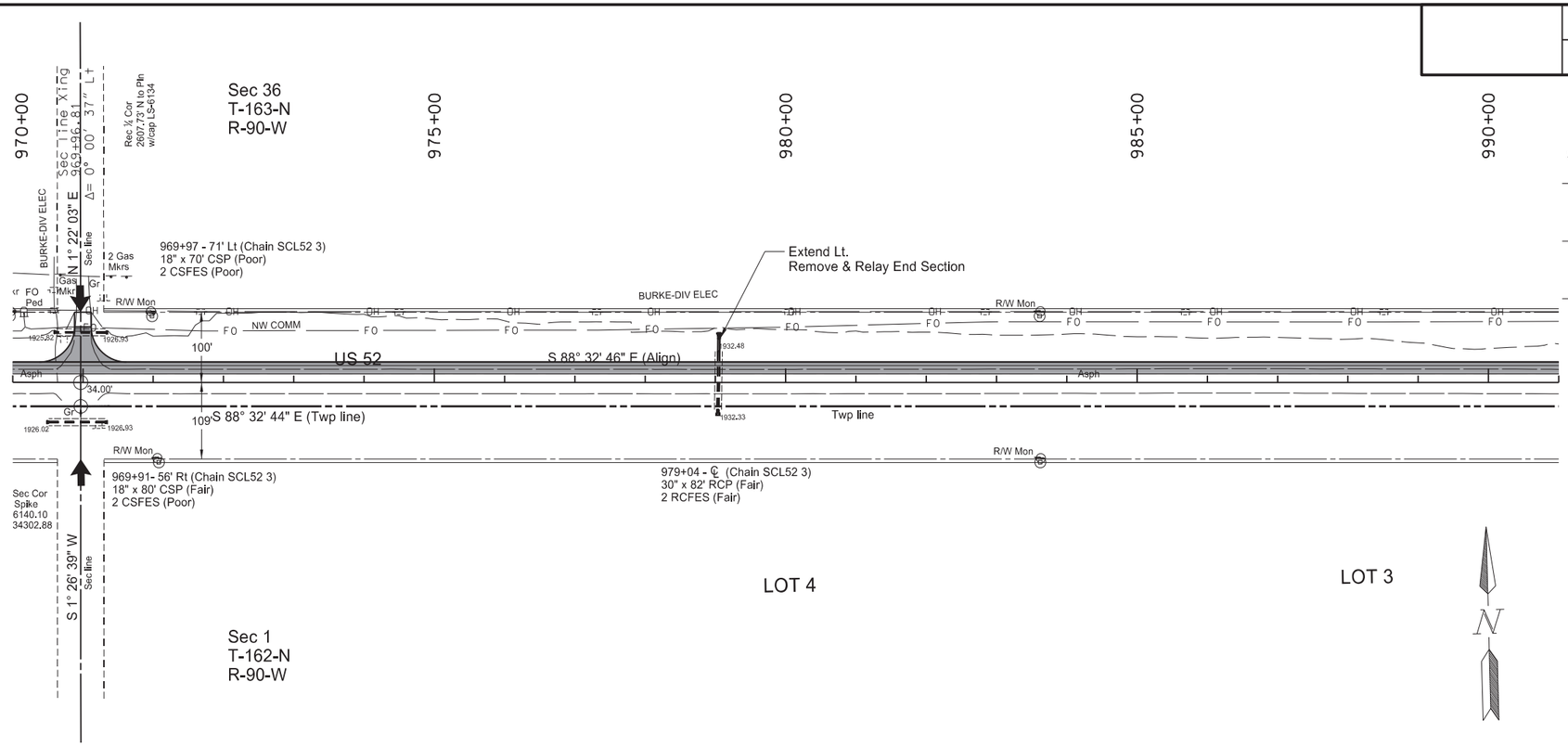

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Plan and Profile

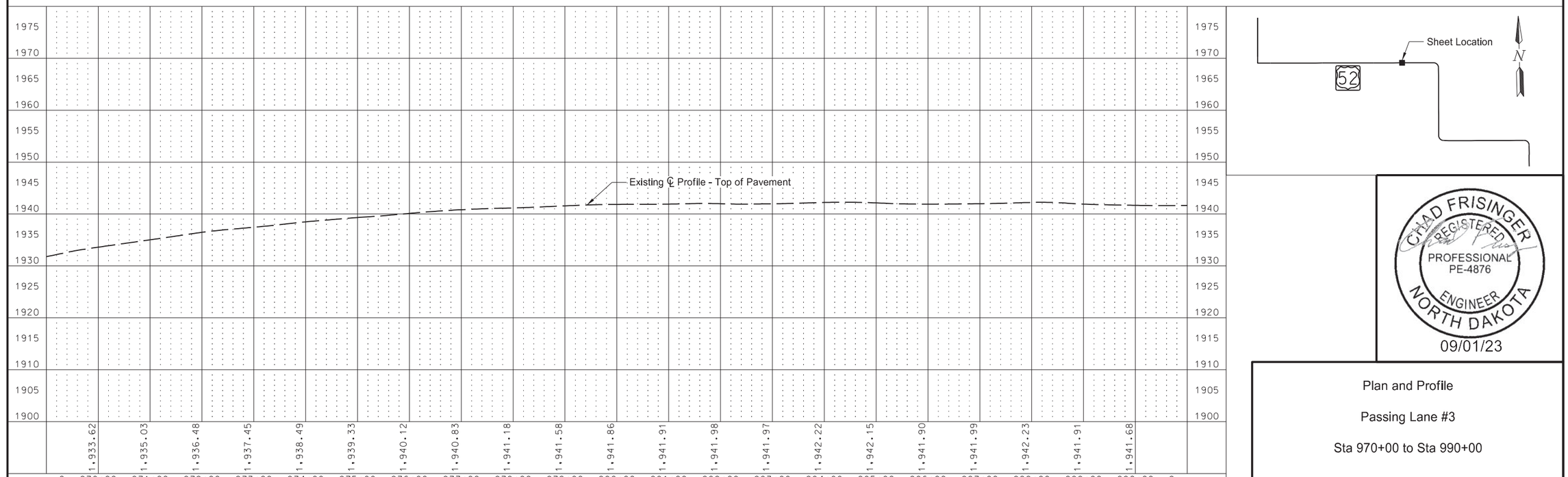
Passing Lane #3

Sta 950+00 to Sta 970+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 19 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 979+04 - CL (Lt) | 18 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 979+04 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 979+04 - CL (Lt) | 1 | EA |







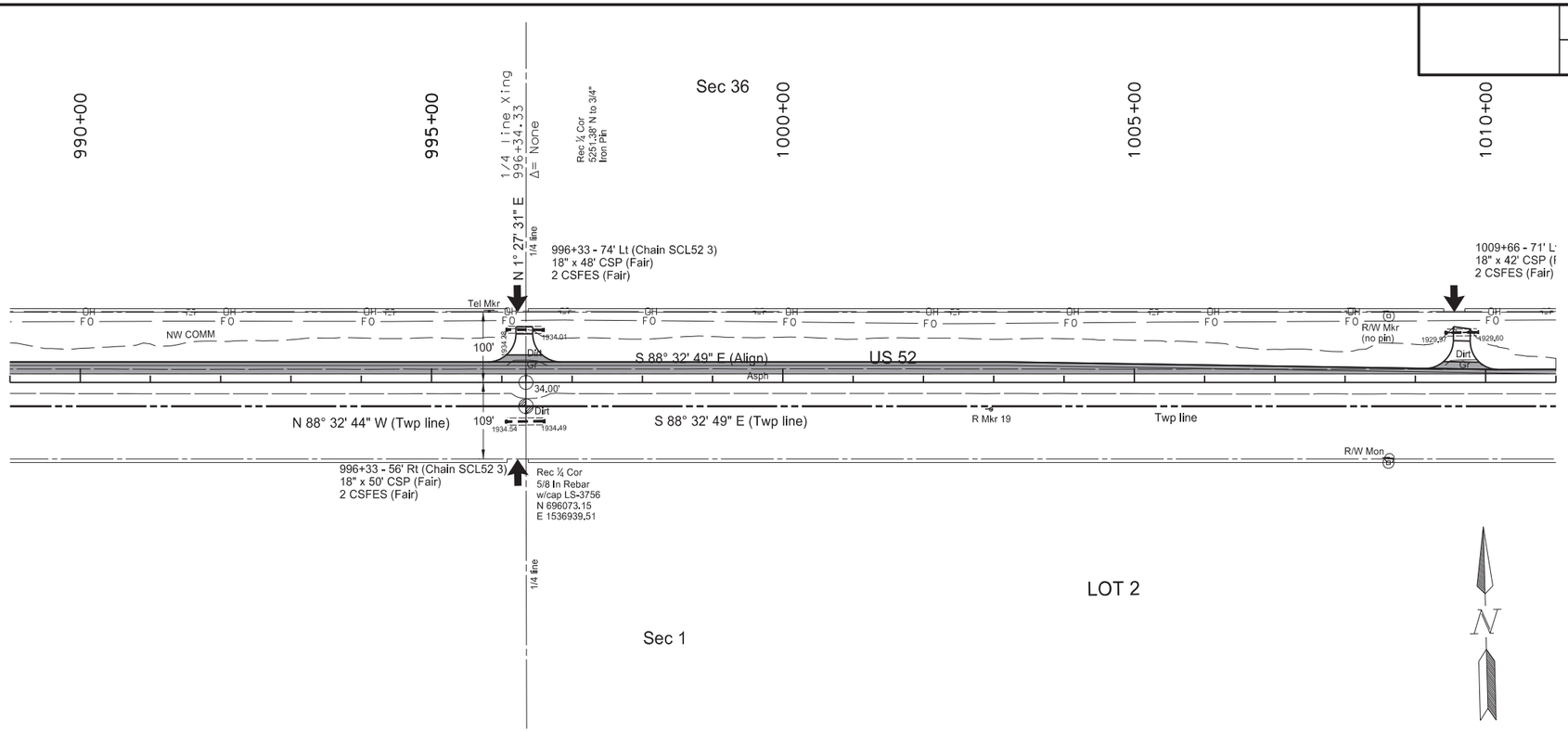
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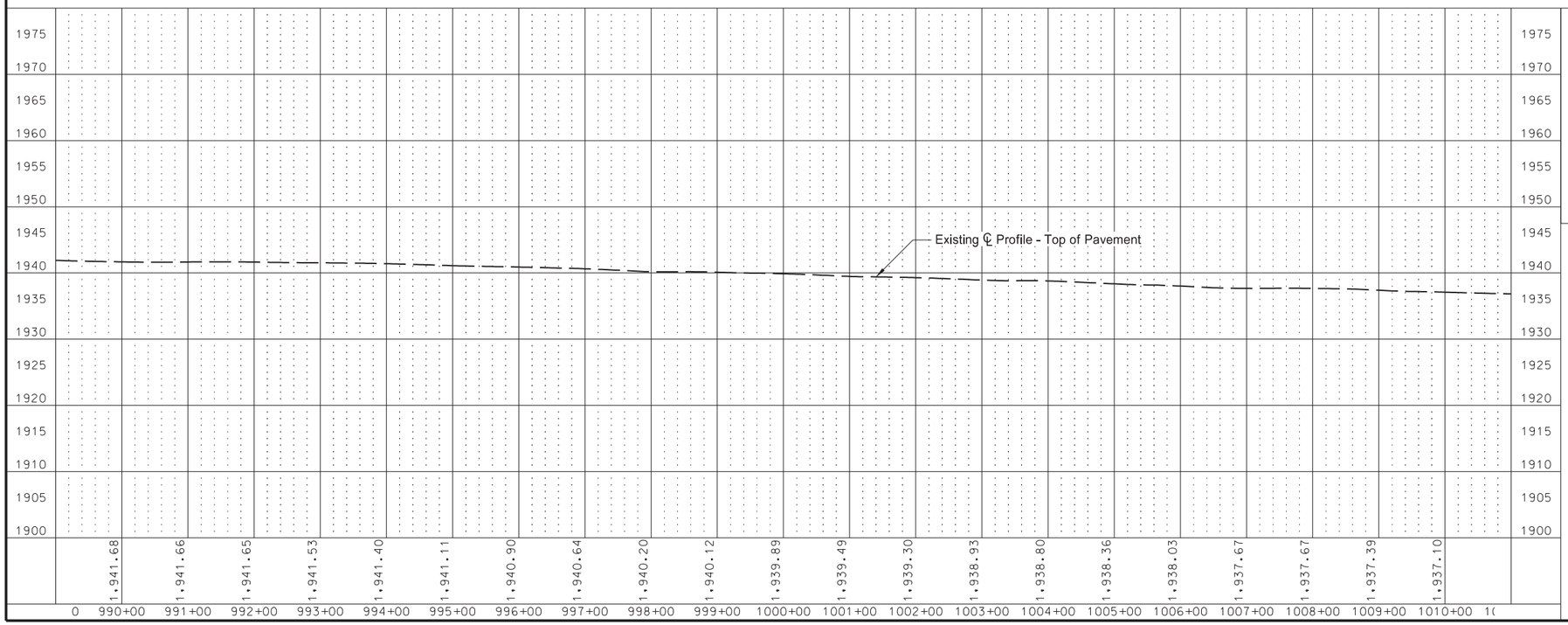
Plan and Profile

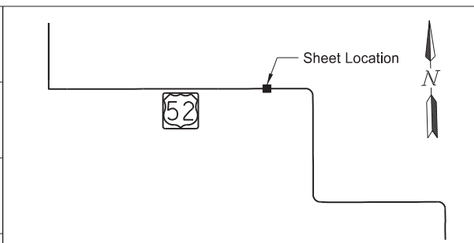
Passing Lane #3

Sta 970+00 to Sta 990+00

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 20 |




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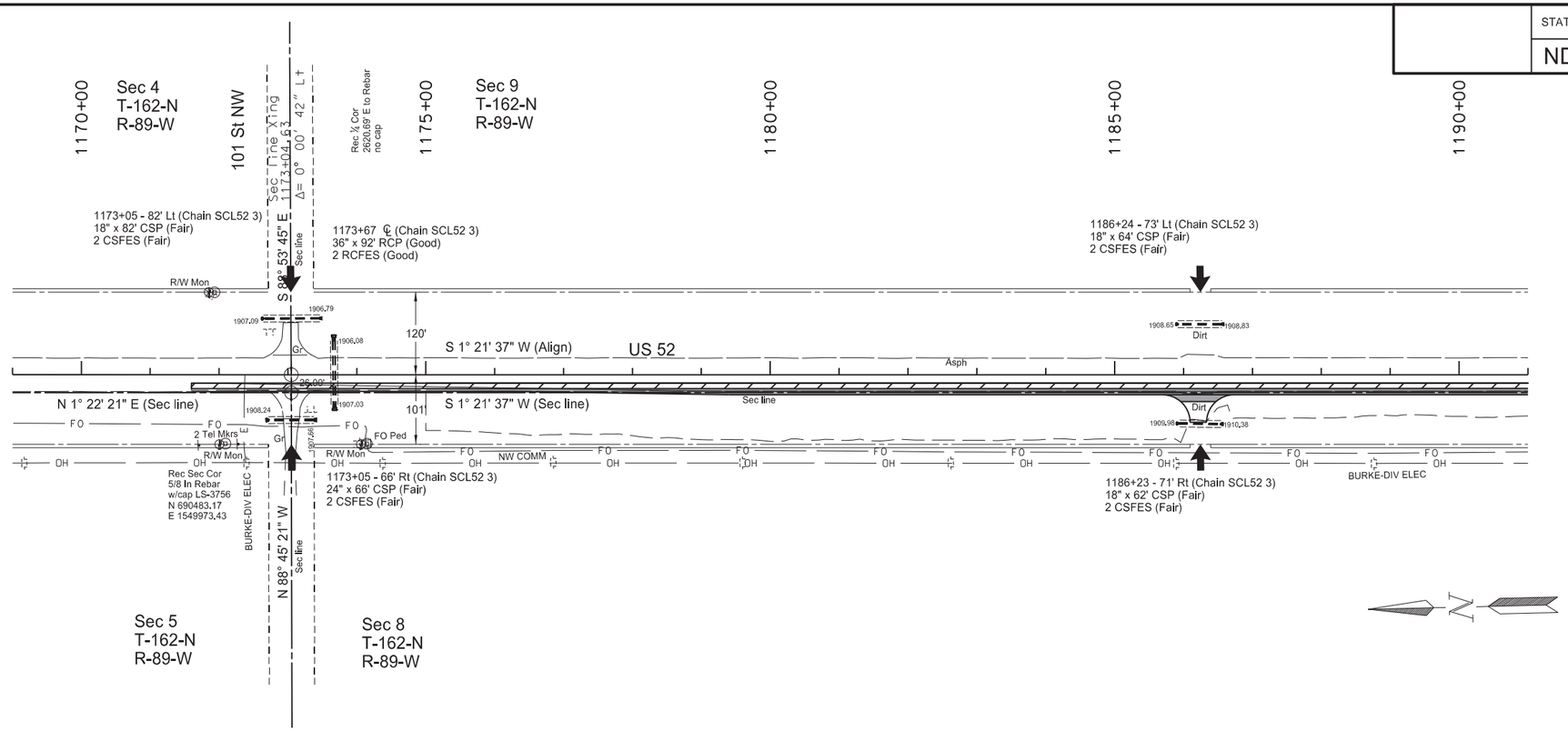
Plan and Profile

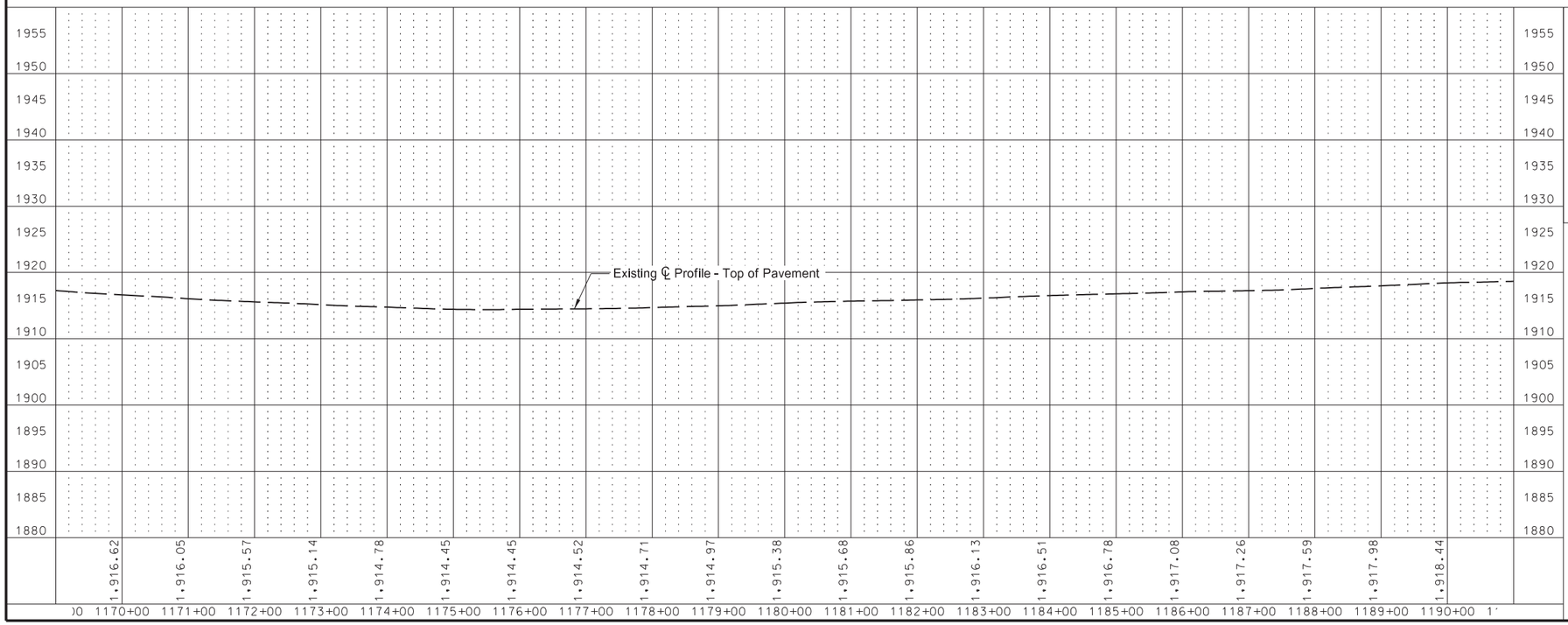
Passing Lane #3

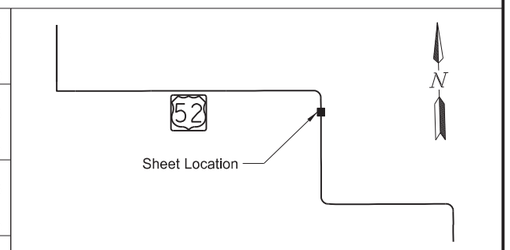
Sta 990+00 to Sta 1010+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 21 |



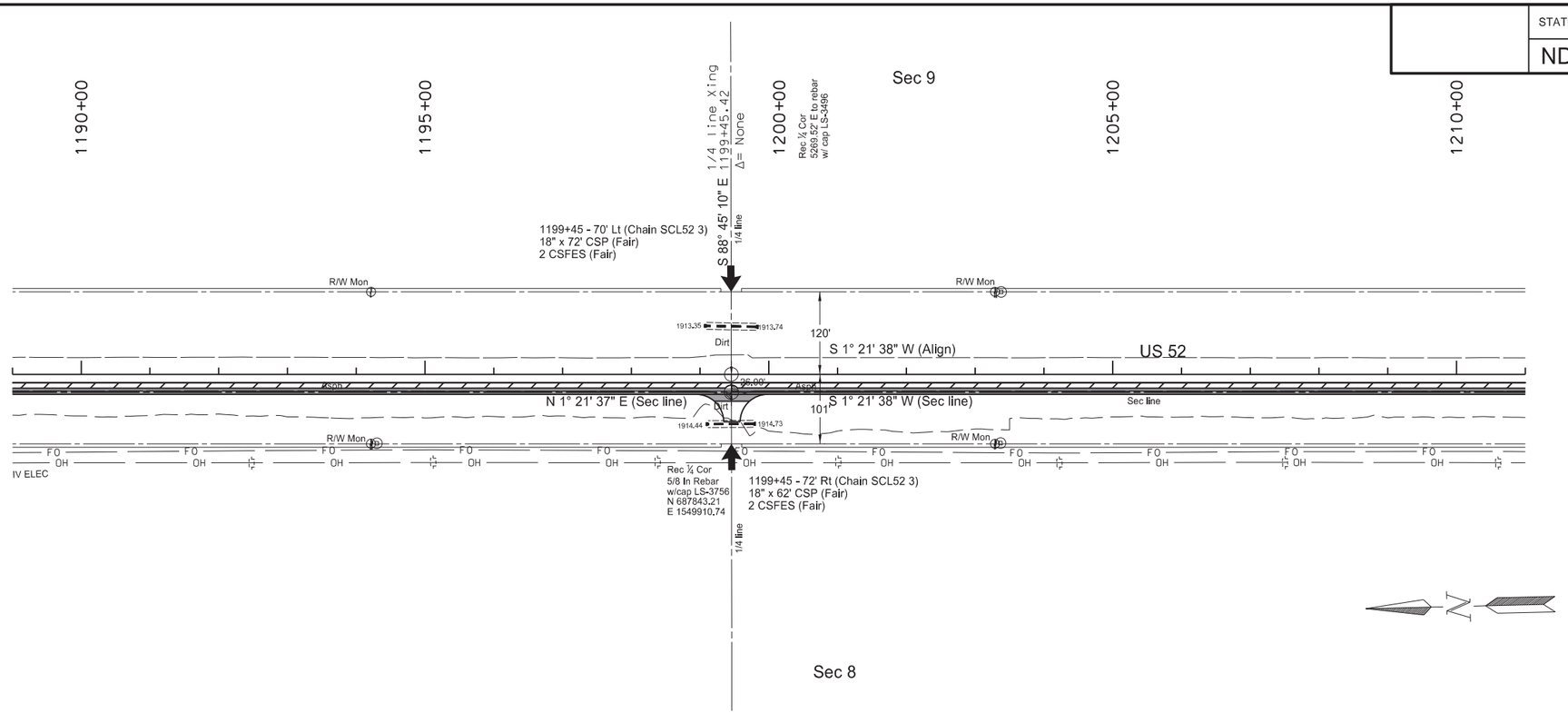

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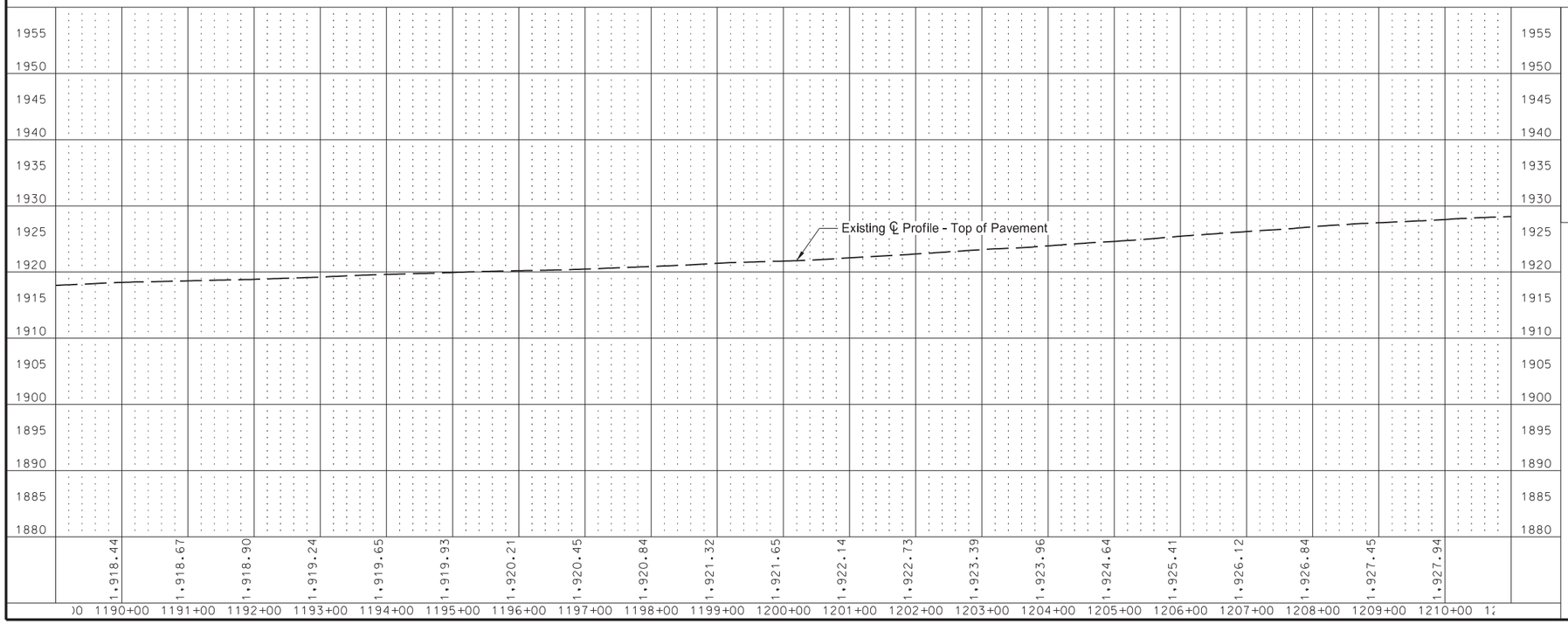
Plan and Profile

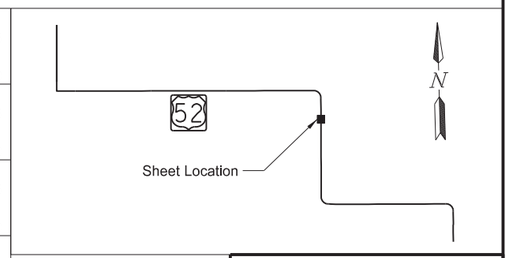
Passing Lane #4

Sta 1170+00 to Sta 1190+00

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 22 |



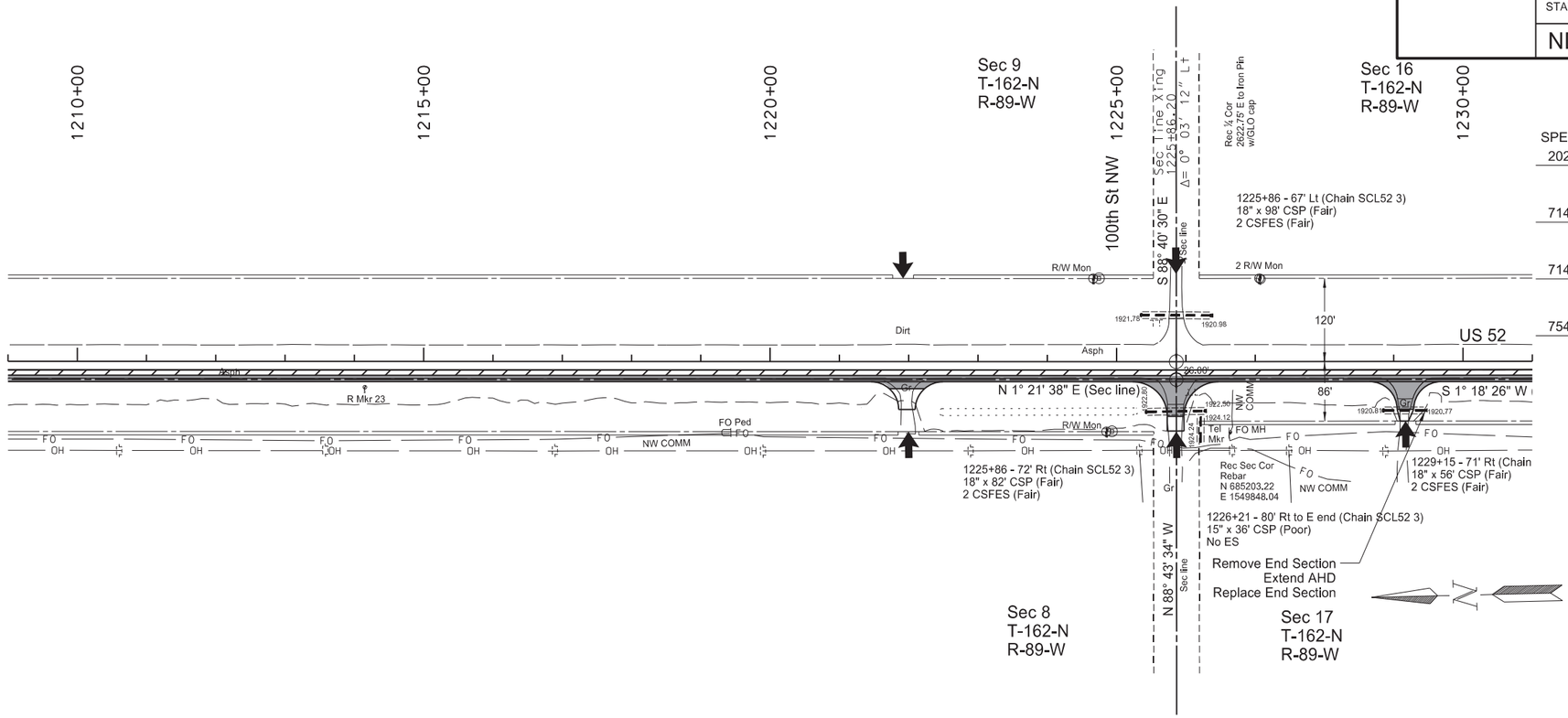

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09/01/23

Plan and Profile

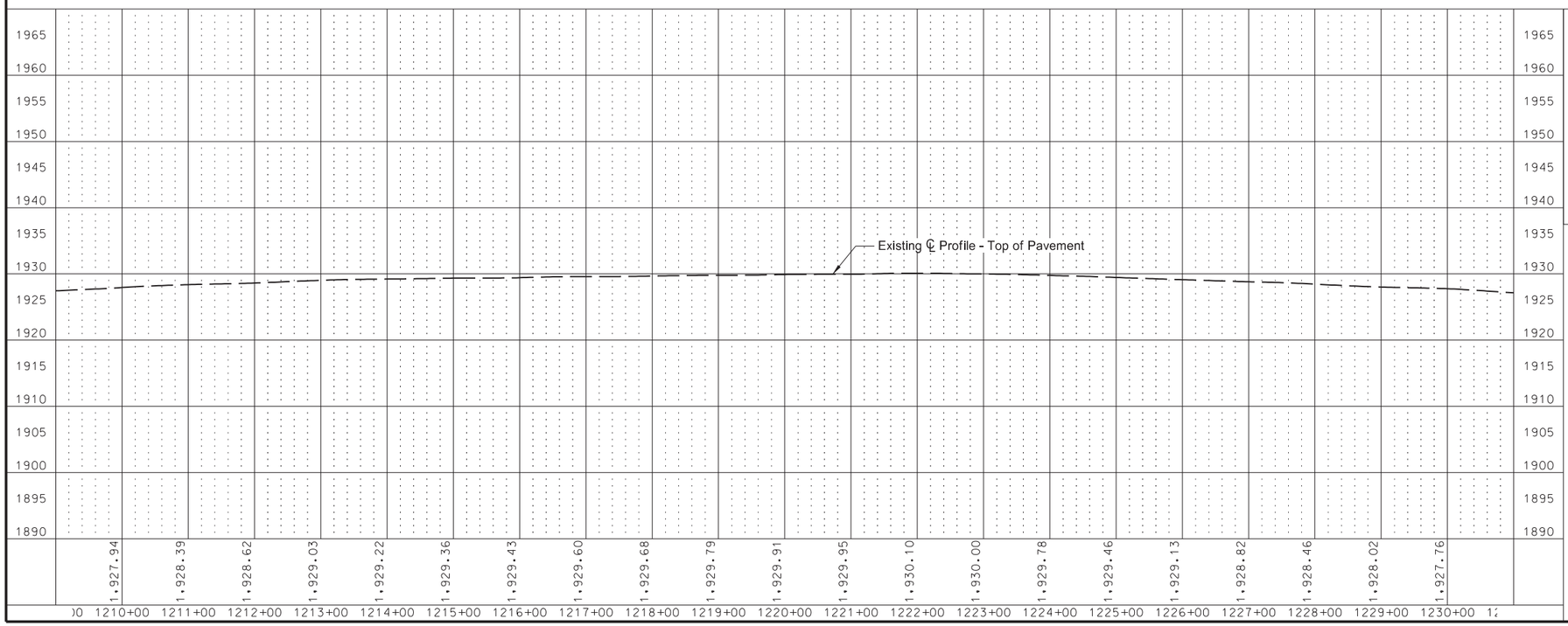
Passing Lane #4

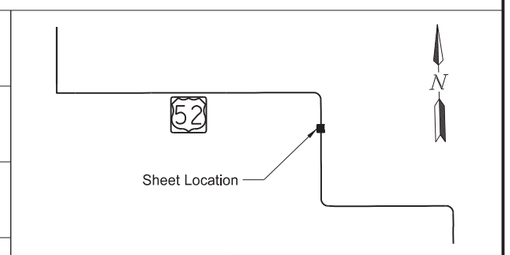
Sta 1190+00 to Sta 1210+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 23 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 1229+15 - Rt (Ahd) | 1 | EA |
| 714 | 5015 | PIPE CORR STEEL .064IN 18IN | | |
| | | Sta 1229+15 - Rt (Ahd) | 2 | LF |
| 714 | 5810 | END SECT CORR STEEL .064IN 18IN | | |
| | | Sta 1229+15 - Rt (Ahd) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1229+15 - Rt (Ahd) | 1 | EA |




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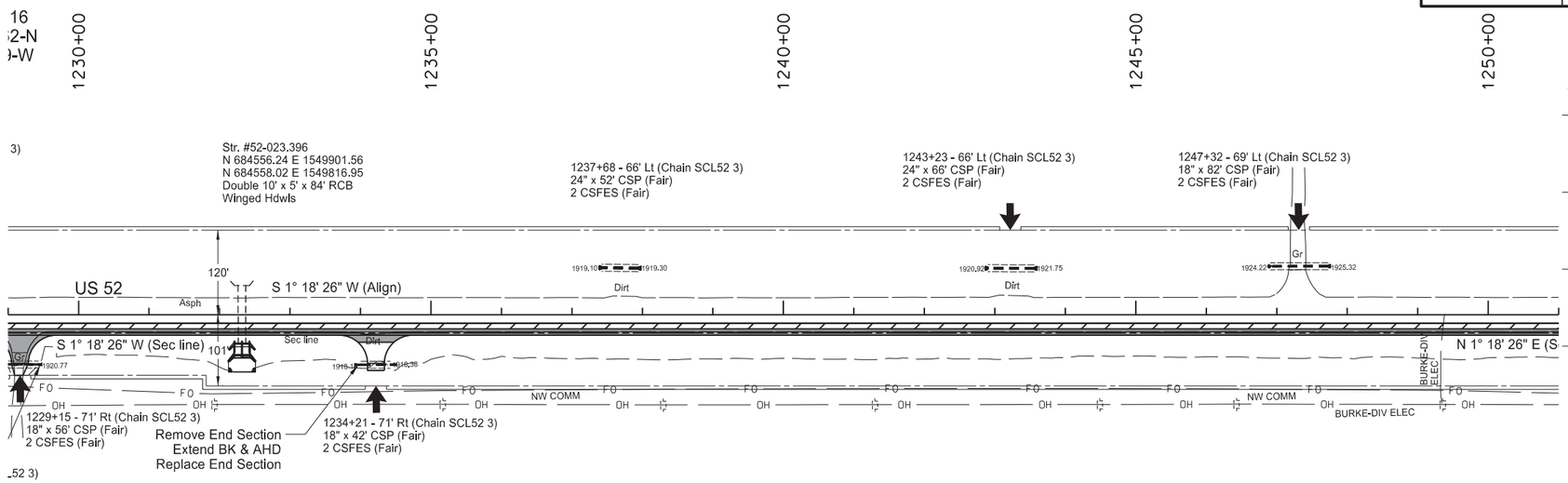
Plan and Profile

Passing Lane #4

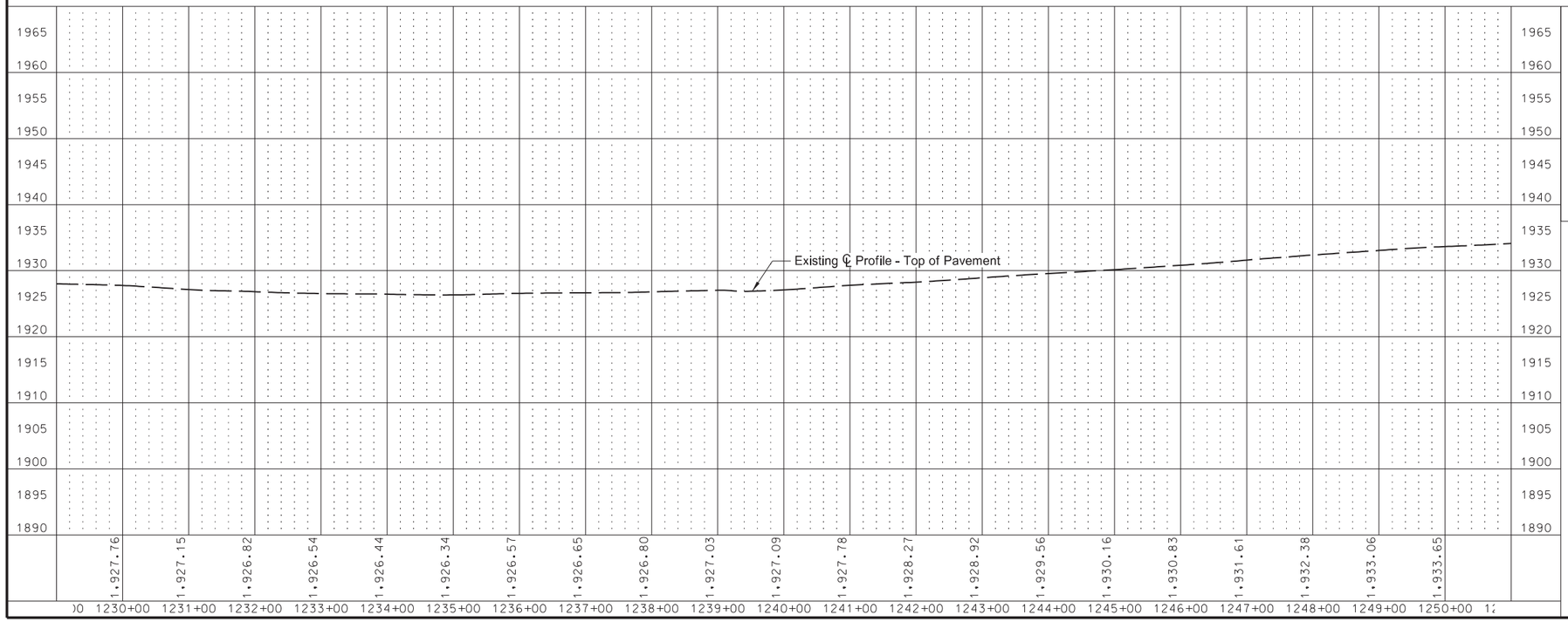
Sta 1210+00 to Sta 1230+00

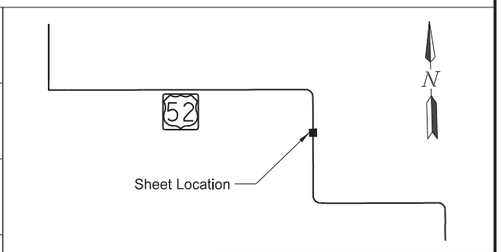
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 24 |

16
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| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 1234+21 - Rt (Bk) | 1 | EA |
| | | Sta 1234+21 - Rt (Ahd) | 1 | EA |
| 714 | 5015 | PIPE CORR STEEL .064IN 18IN | | |
| | | Sta 1234+21 - Rt (Bk) | 8 | LF |
| | | Sta 1234+21 - Rt (Ahd) | 8 | LF |
| 714 | 5810 | END SECT CORR STEEL .064IN 18IN | | |
| | | Sta 1234+21 - Rt (Bk) | 1 | EA |
| | | Sta 1234+21 - Rt (Ahd) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1234+21 - Rt (Bk) | 1 | EA |
| | | Sta 1234+21 - Rt (Ahd) | 1 | EA |



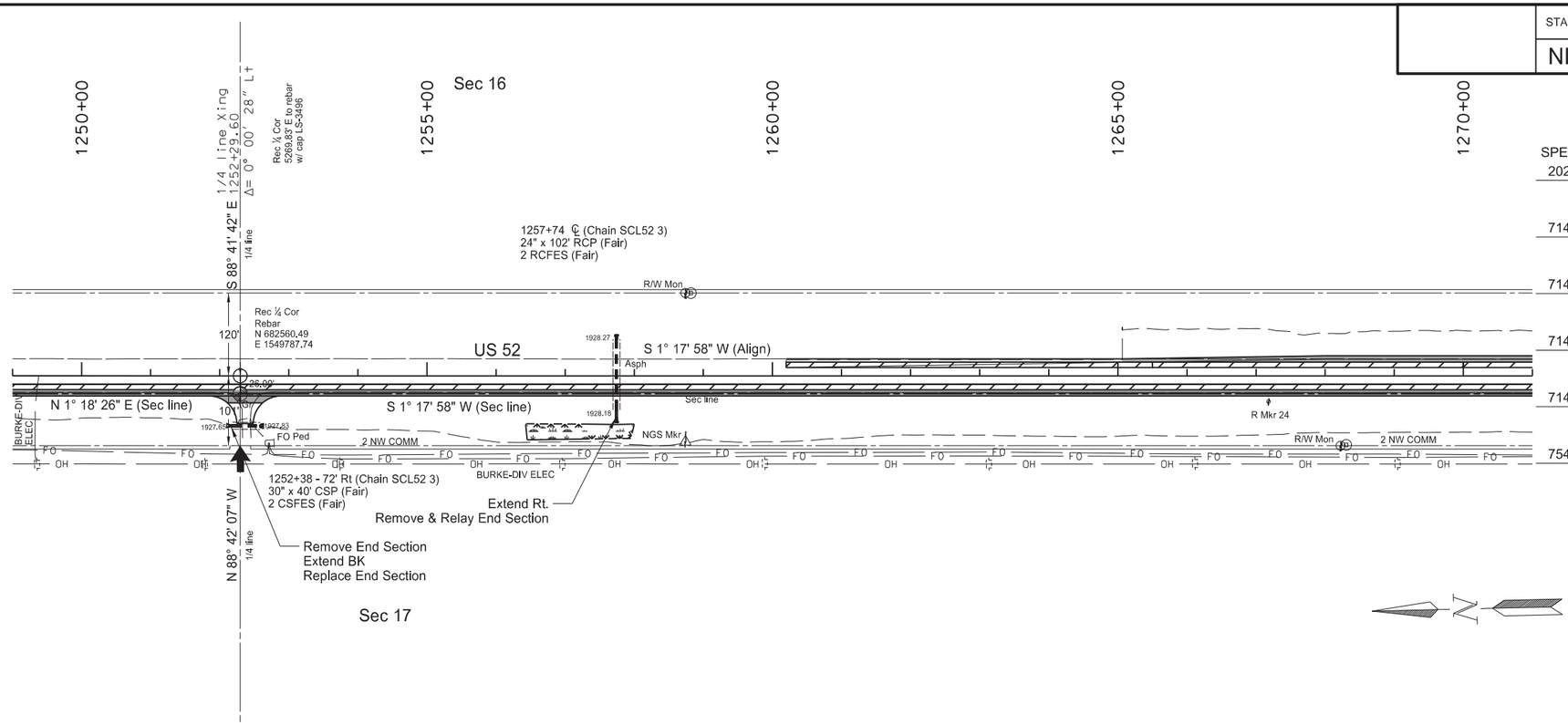

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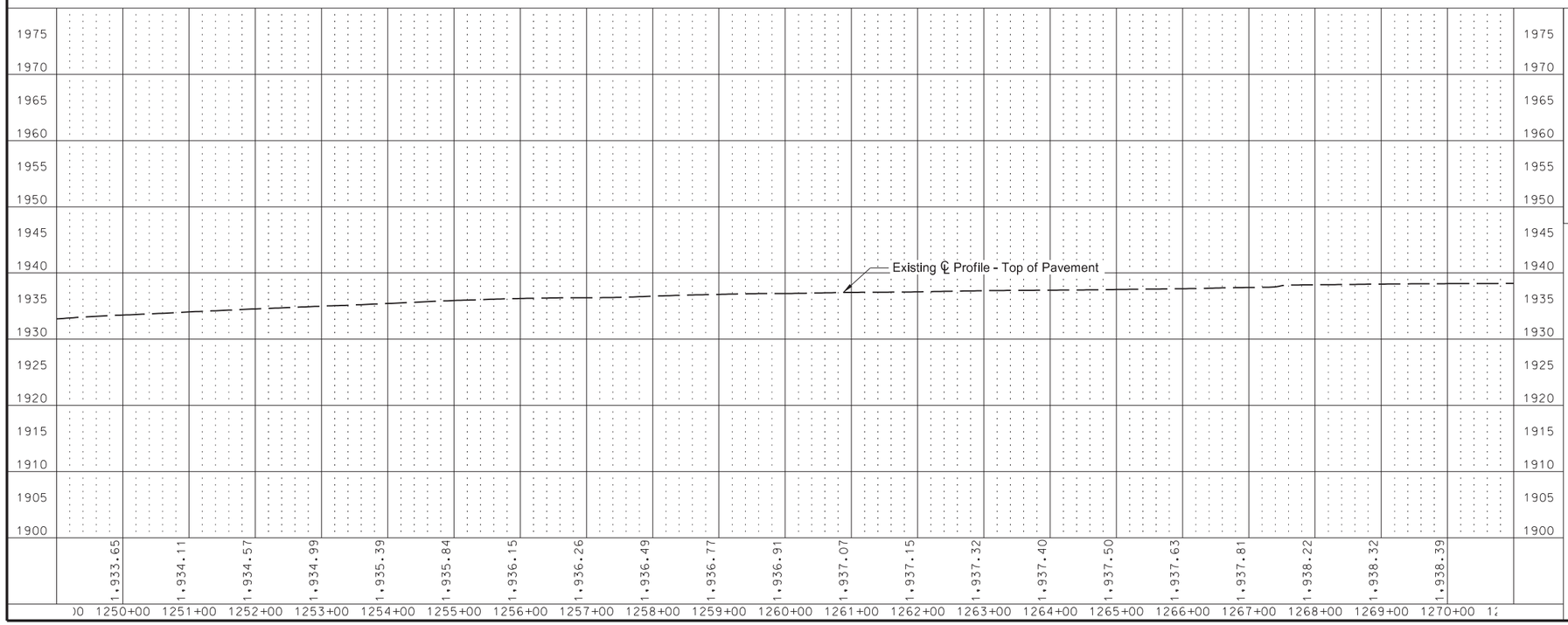
Passing Lane #4

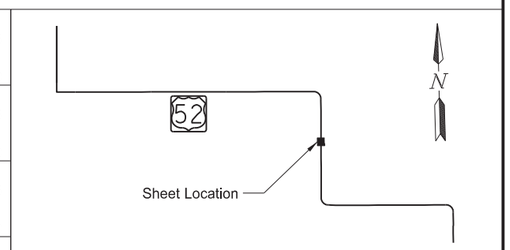
Sta 1230+00 to Sta 1250+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 25 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 1252+38 - Rt (Bk) | 1 | EA |
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1257+74 - CL (Rt) | 10 | LF |
| 714 | 5040 | PIPE CORR STEEL .064IN 30IN | | |
| | | Sta 1252+38 - Rt (Bk) | 4 | LF |
| 714 | 5825 | END SECT CORR STEEL .079IN 30IN | | |
| | | Sta 1252+38 - Rt (Bk) | 1 | EA |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1257+74 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1252+38 - Rt (Bk) | 1 | EA |
| | | Sta 1257+74 - CL (Rt) | 1 | EA |




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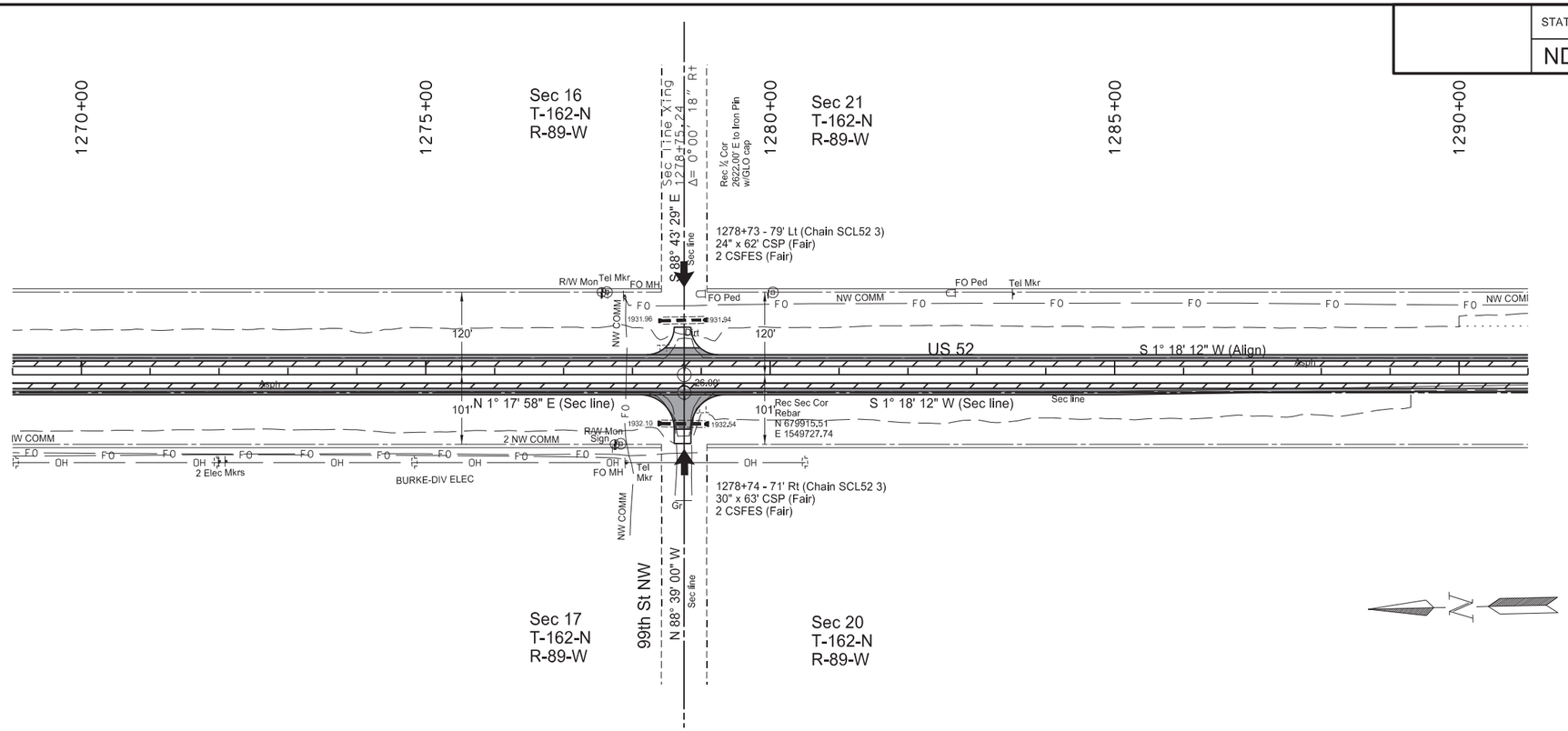
Plan and Profile

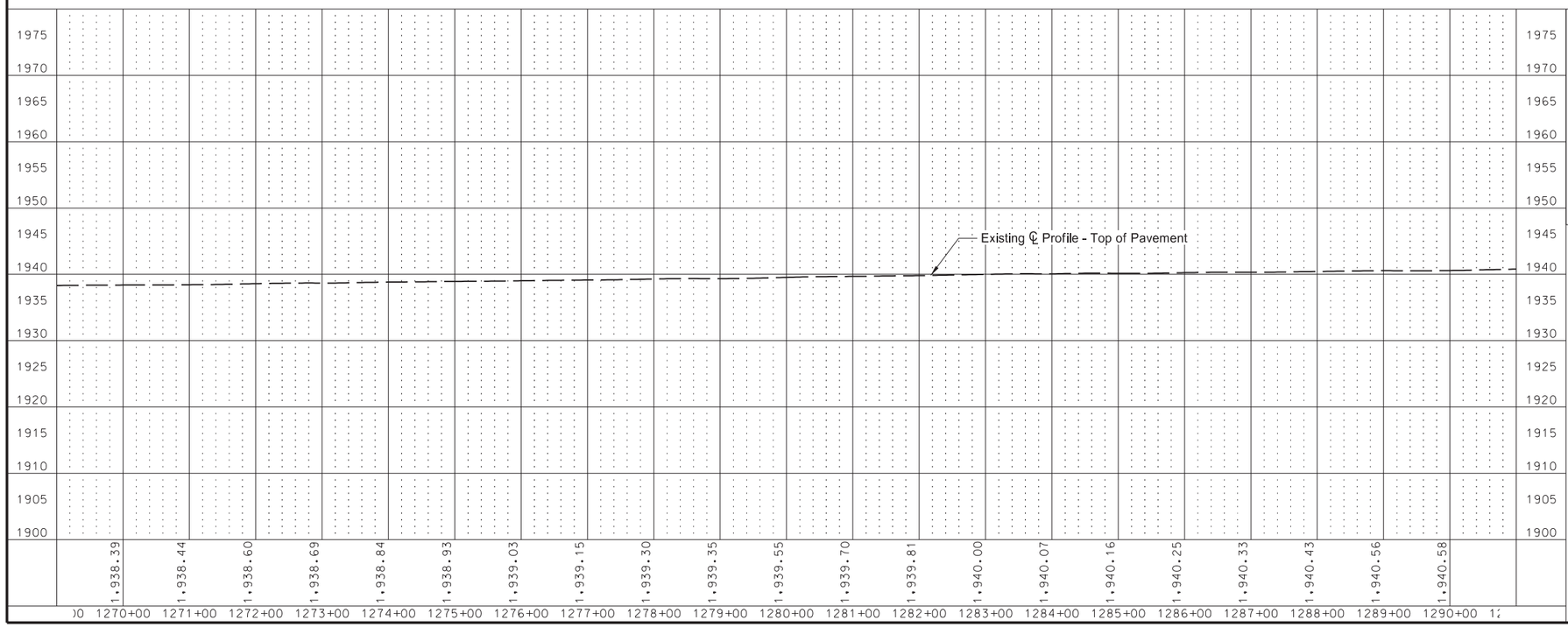
Passing Lanes #4 and #5

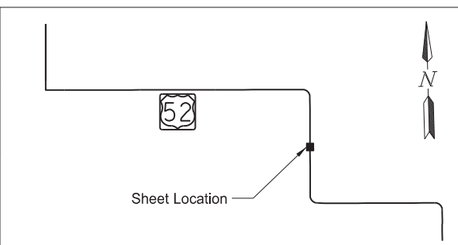
Sta 1250+00 to Sta 1270+00

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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 26 |



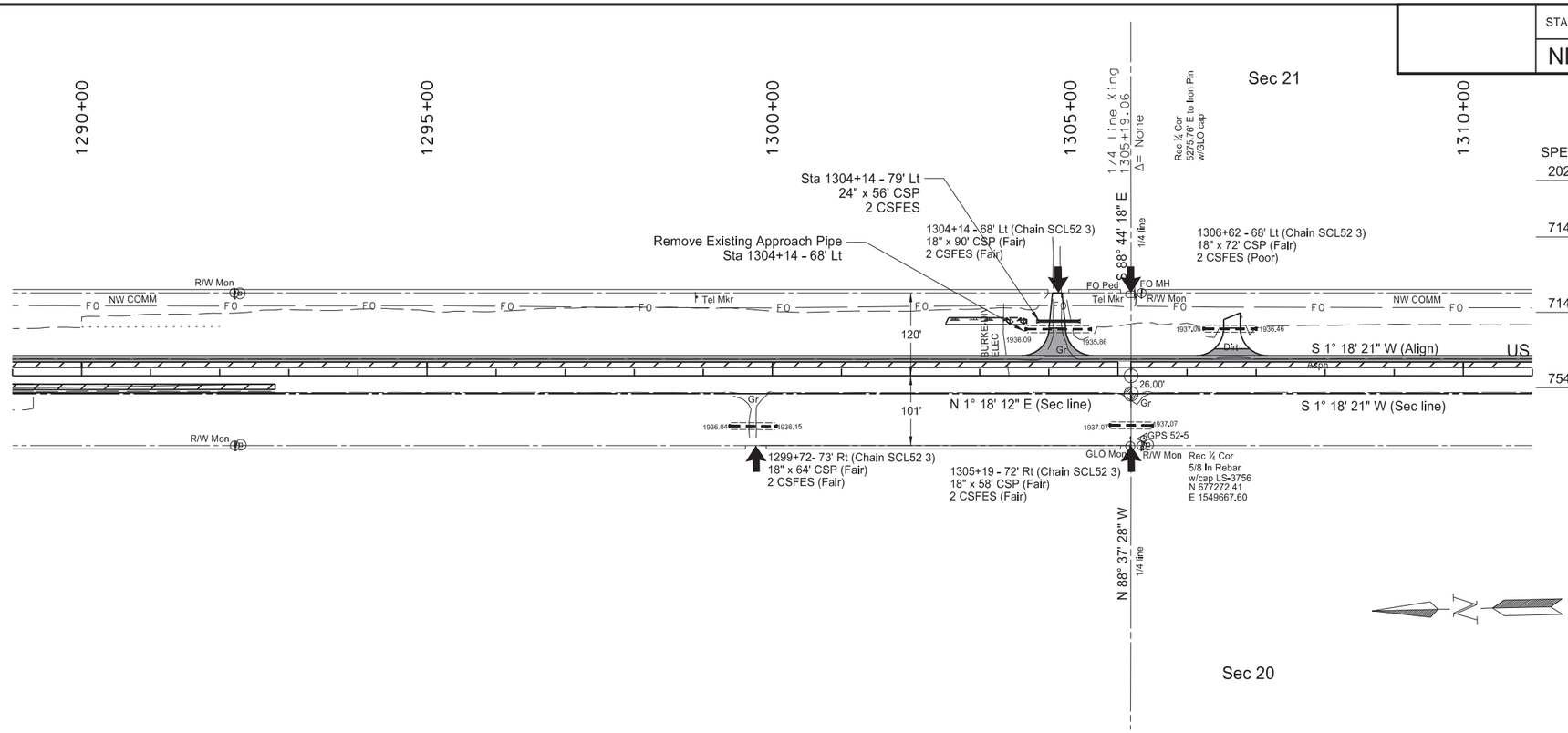

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09/01/23

Plan and Profile

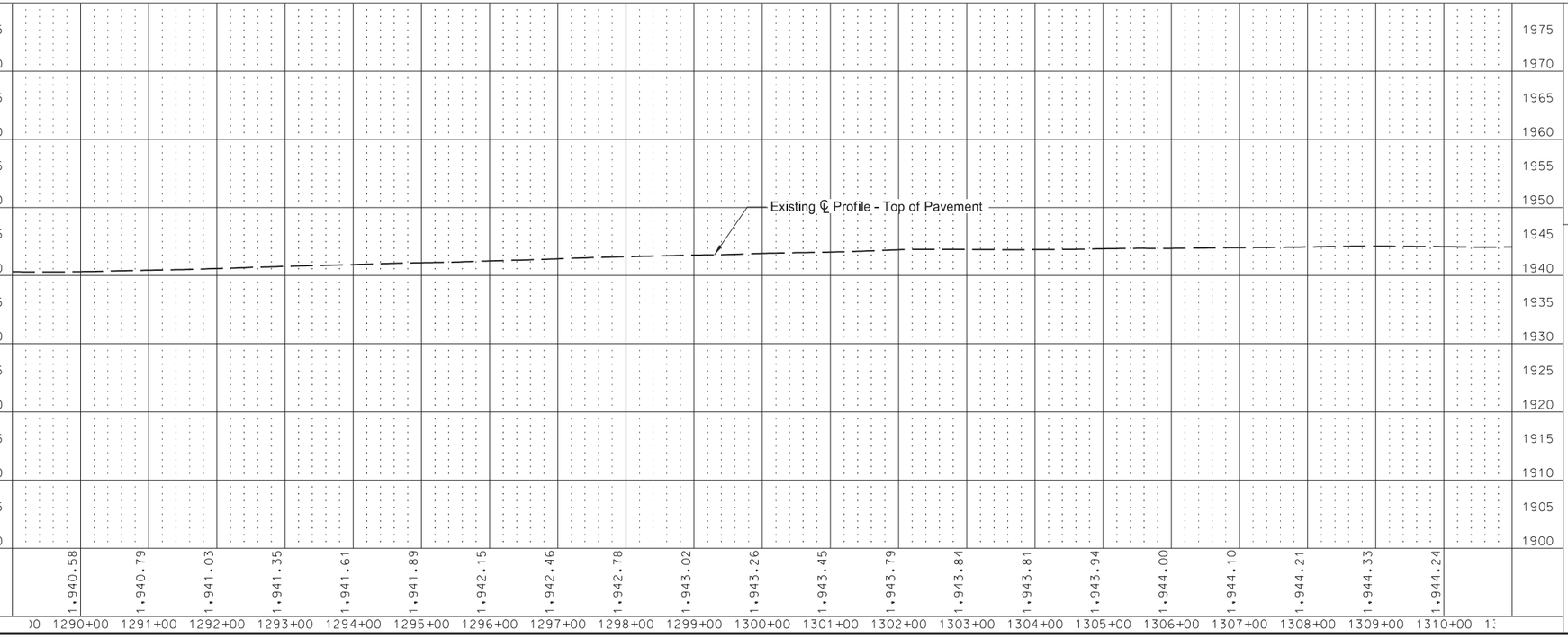
Passing Lanes #4 and #5

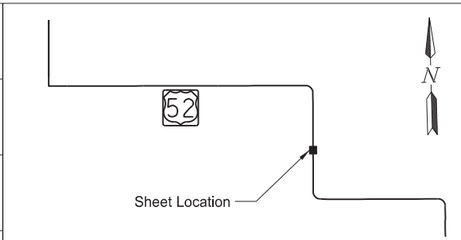
Sta 1270+00 to Sta 1290+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 27 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 174 | REMOVAL OF PIPE ALL TYPES AND SIZES | | |
| | | Sta 1304+14 - 68' Lt | 90 | LF |
| 714 | 5035 | PIPE CORR STEEL .064IN 24IN | | |
| | | Sta 1304+14 - 79' Lt (Bk) | 28 | LF |
| | | Sta 1304+14 - 79' Lt (Ahd) | 28 | LF |
| 714 | 5820 | END SECT CORR STEEL .064IN 24IN | | |
| | | Sta 1304+14 - 79' Lt (Bk) | 1 | EA |
| | | Sta 1304+14 - 79' Lt (Ahd) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1304+14 - 79' Lt (Bk) | 1 | EA |
| | | Sta 1304+14 - 79' Lt (Ahd) | 1 | EA |




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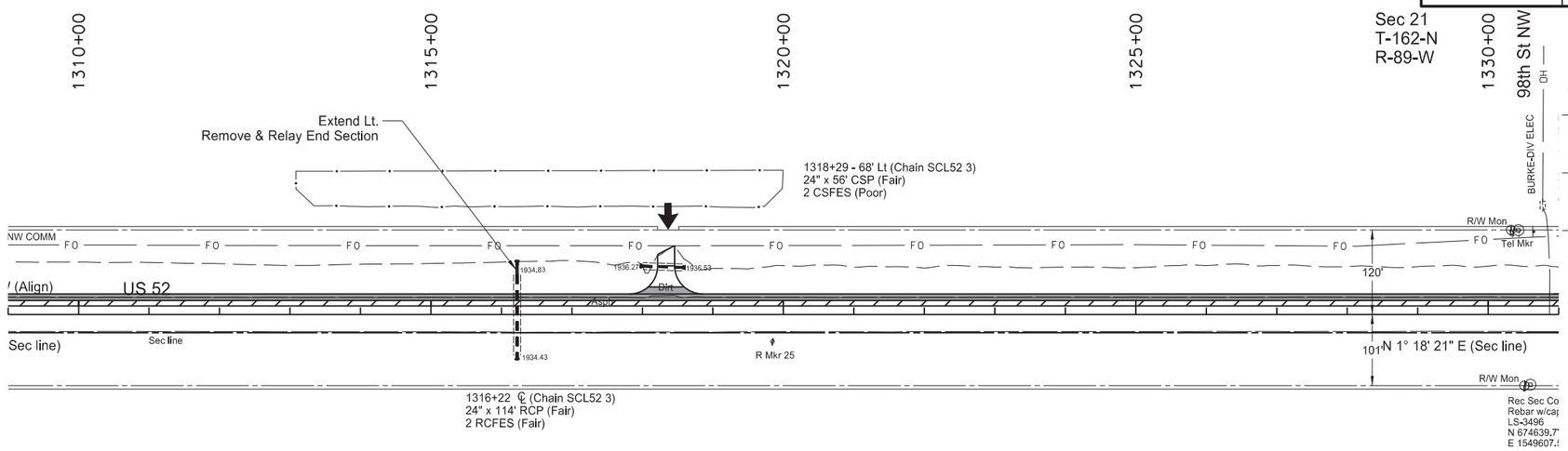
Plan and Profile

Passing Lanes #4 and #5

Sta 1290+00 to Sta 1310+00

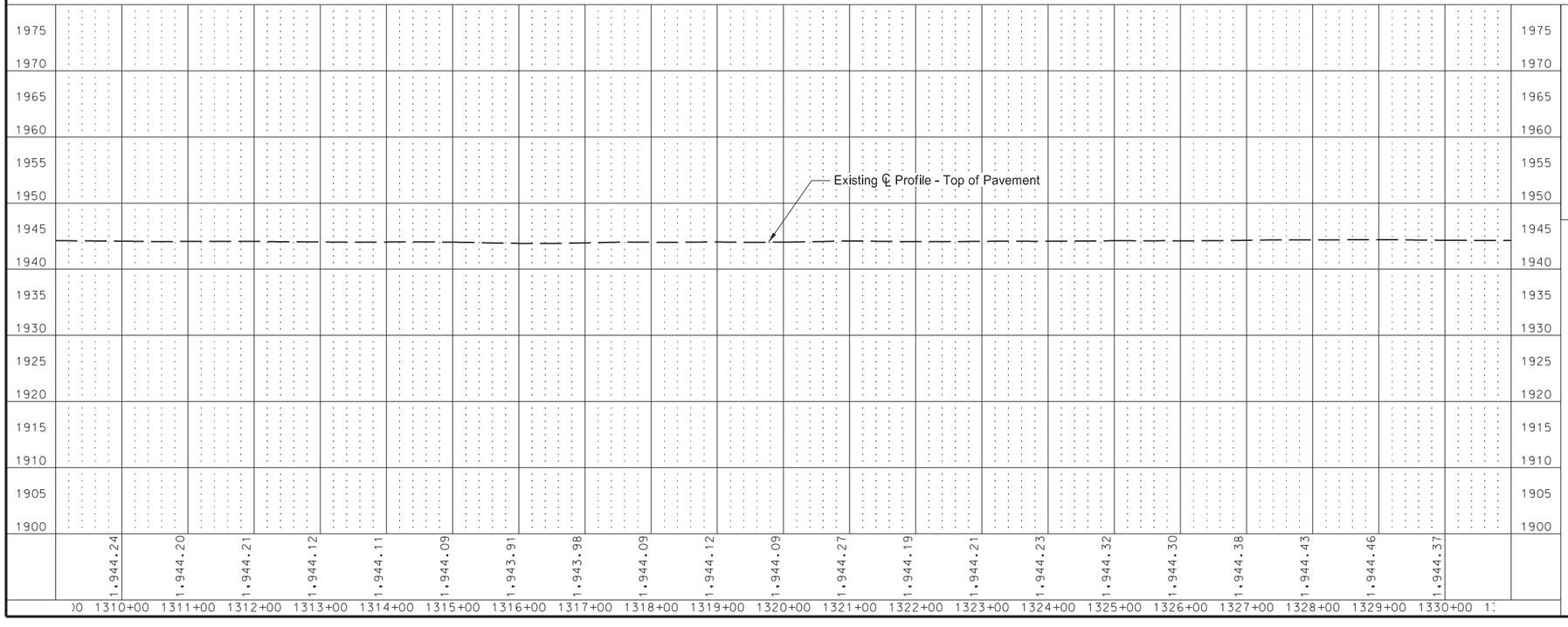
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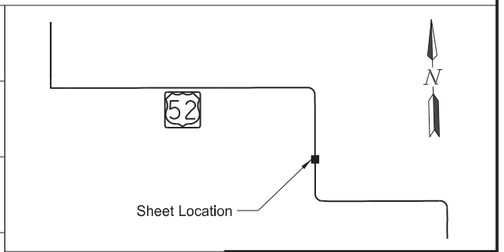
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 28 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1316+22 - CL (Lt) | 10 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1316+22 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1316+22 - CL (Lt) | 1 | EA |

Sec 20
T-162-N
R-89-W



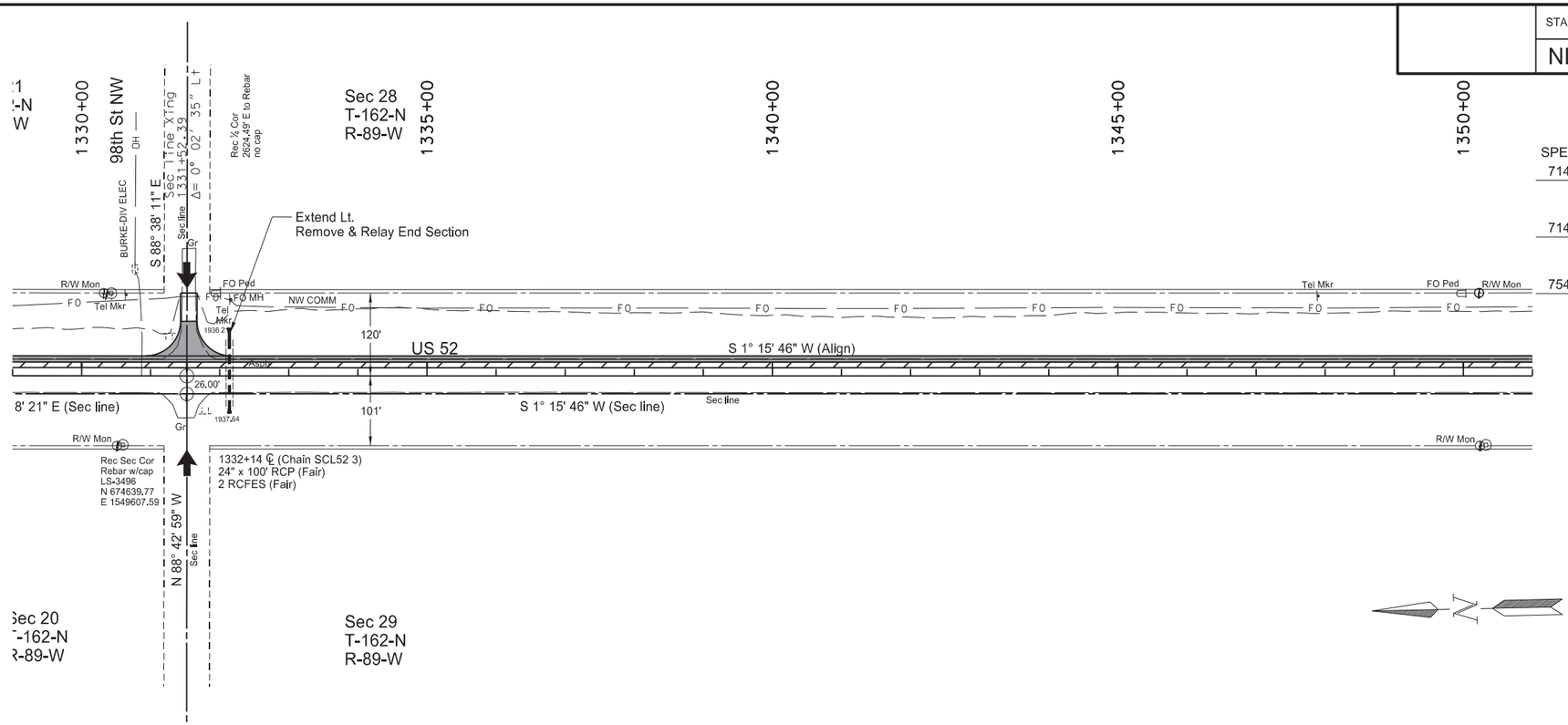

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Plan and Profile

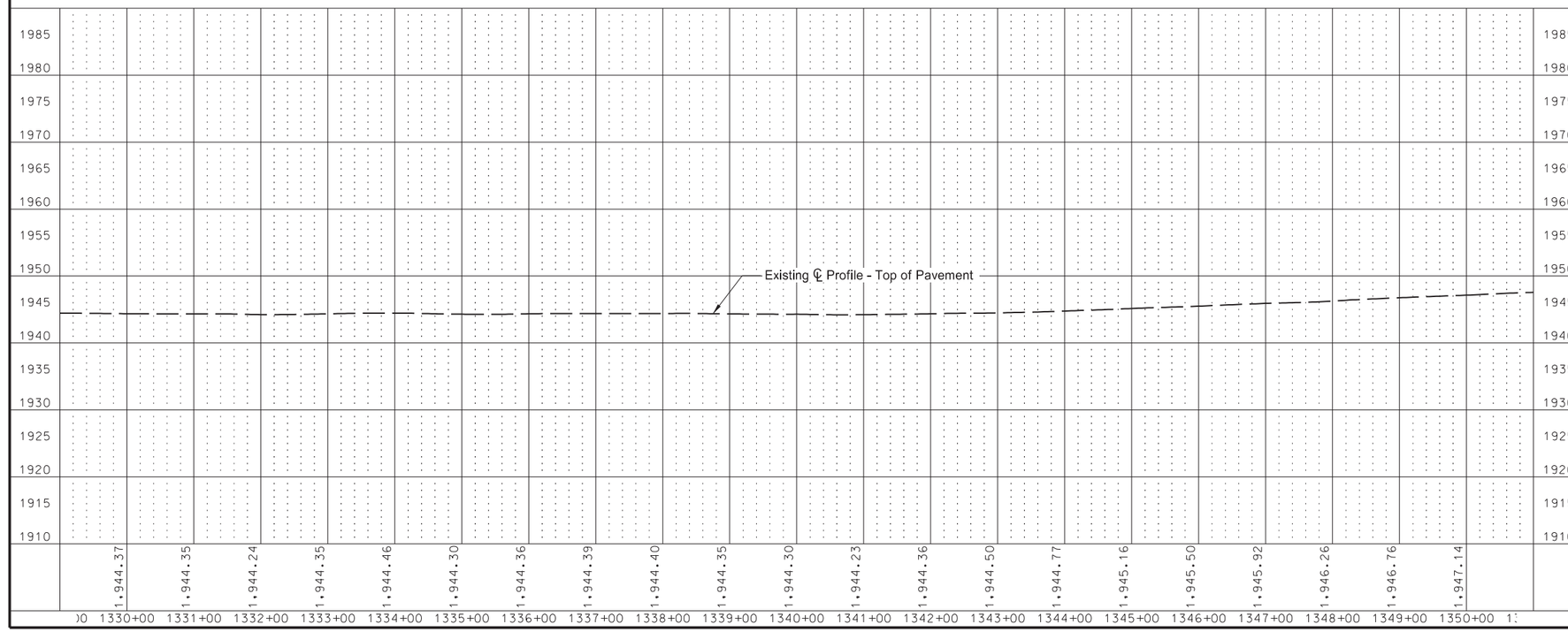
Passing Lane #5

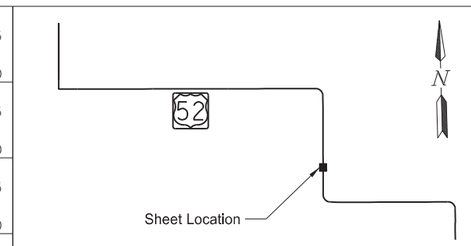
Sta 1310+00 to Sta 1330+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 29 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1332+14 - CL (Lt) | 8 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1332+14 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1332+14 - CL (Lt) | 1 | EA |



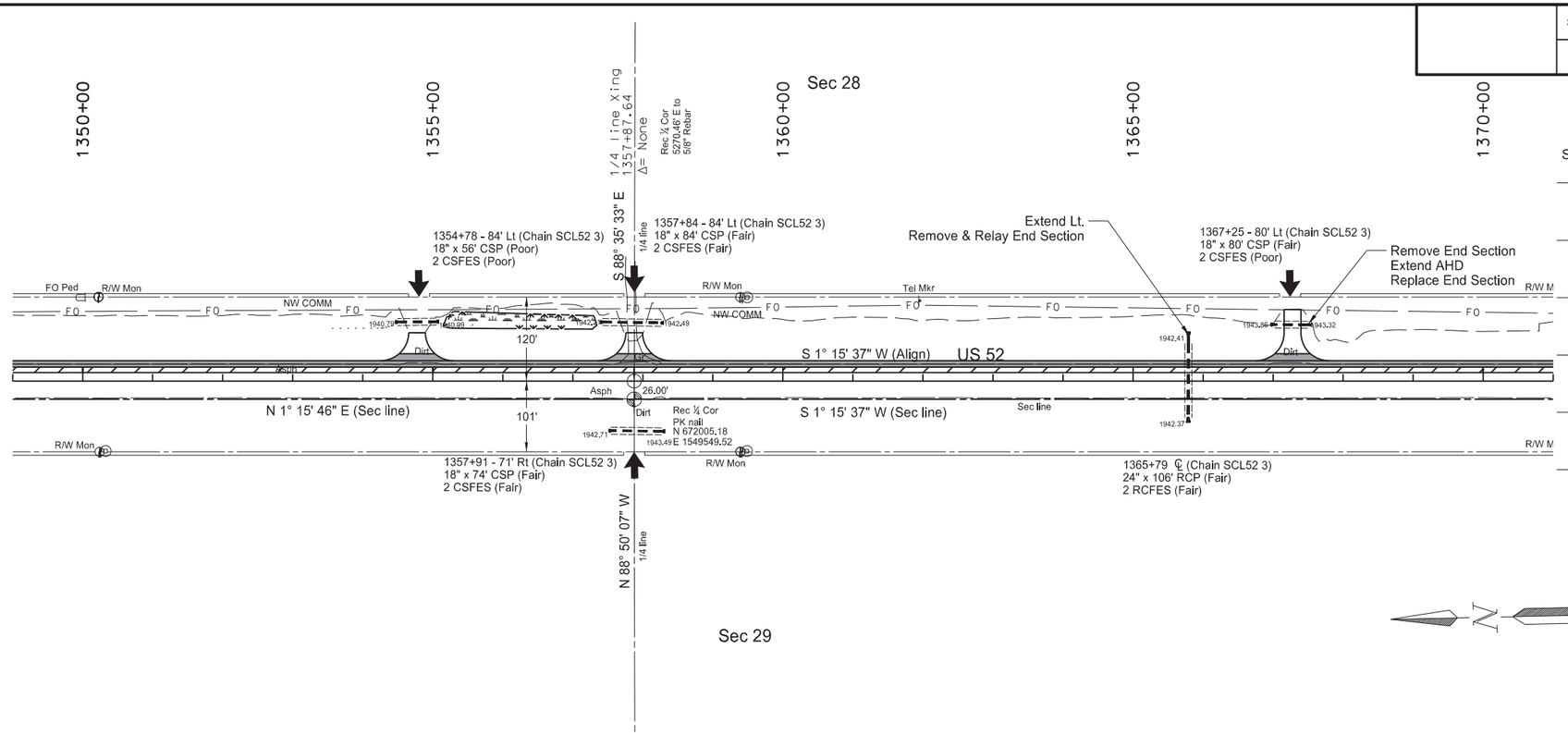

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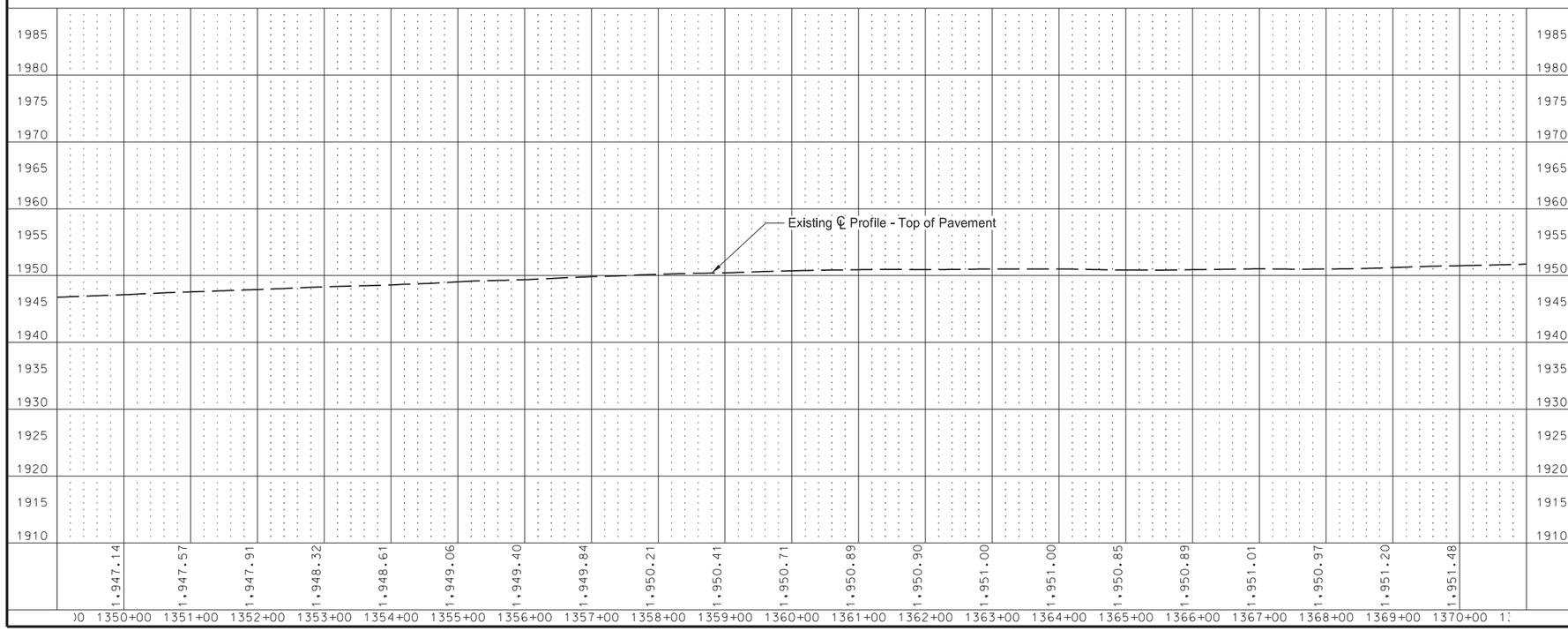
Passing Lane #5

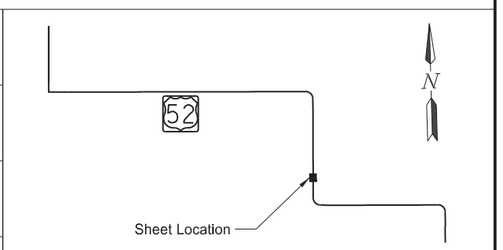
Sta 1330+00 to Sta 1350+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 30 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 1367+25 - Lt (Ahd) | 1 | EA |
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1365+79 - CL (Lt) | 8 | LF |
| 714 | 5015 | PIPE CORR STEEL .064IN 18IN | | |
| | | Sta 1367+25 - Lt (Ahd) | 2 | LF |
| 714 | 5810 | END SECT CORR STEEL .064IN 18IN | | |
| | | Sta 1367+25 - Lt (Ahd) | 1 | EA |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1365+79 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1365+79 - CL (Lt) | 1 | EA |
| | | Sta 1367+25 - Lt (Ahd) | 1 | EA |



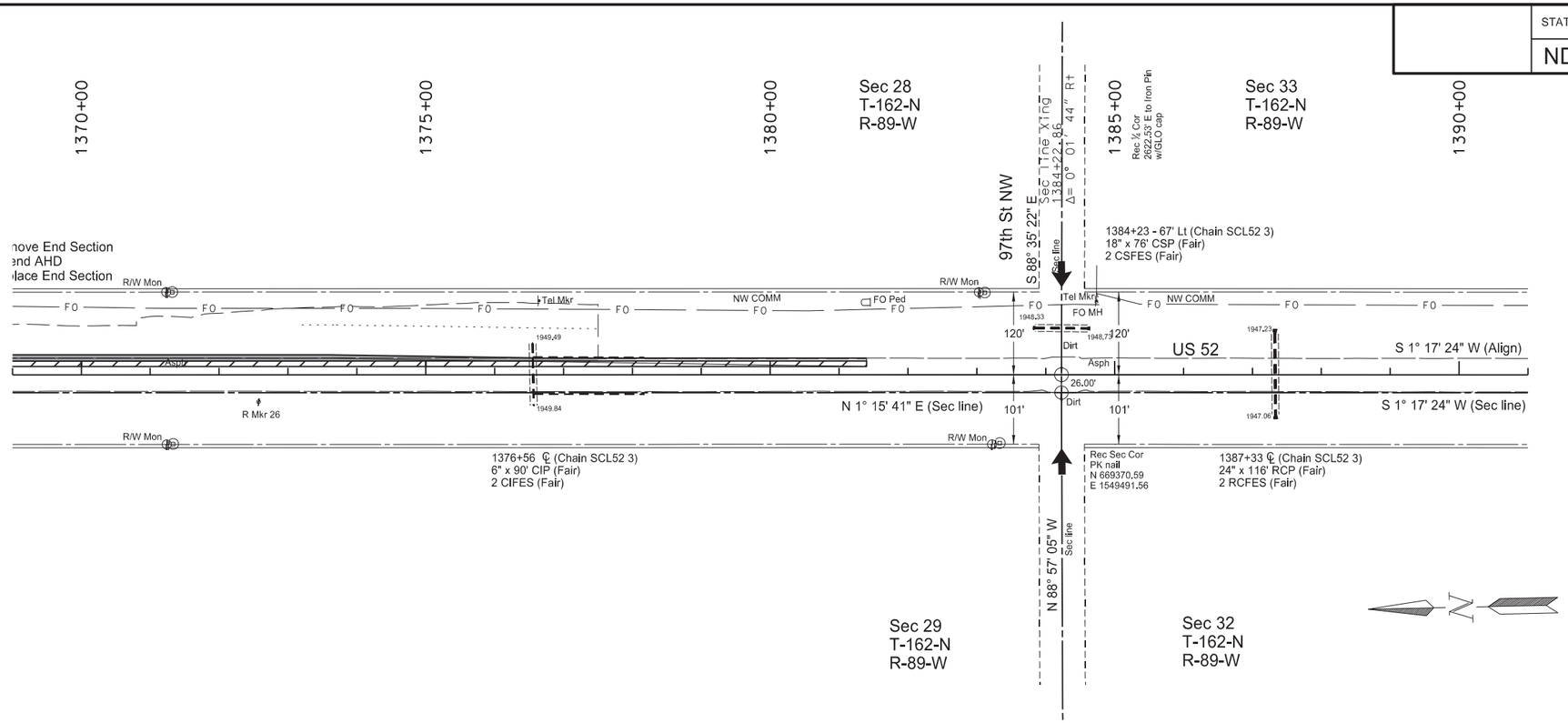

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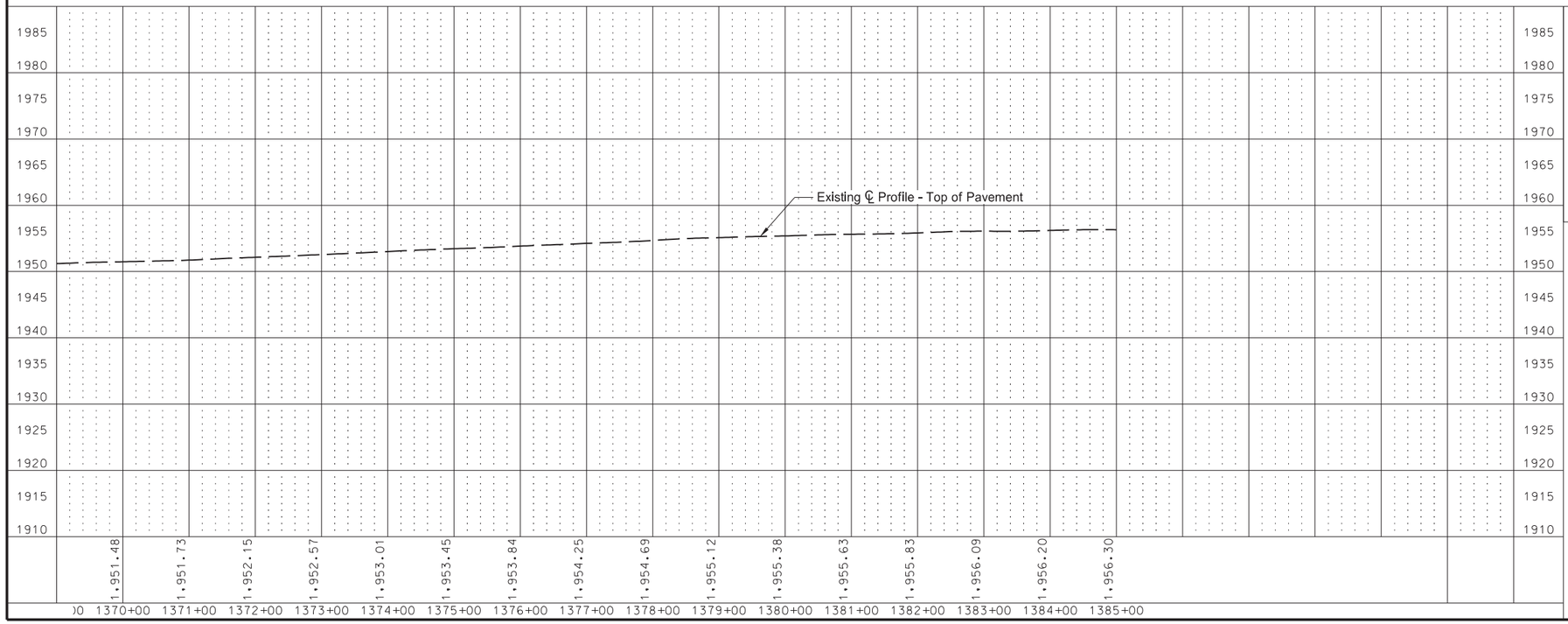
Plan and Profile

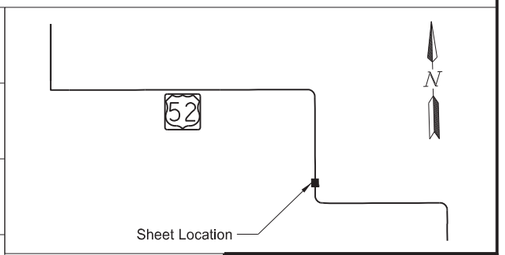
Passing Lane #5

Sta 1350+00 to Sta 1370+00

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 31 |



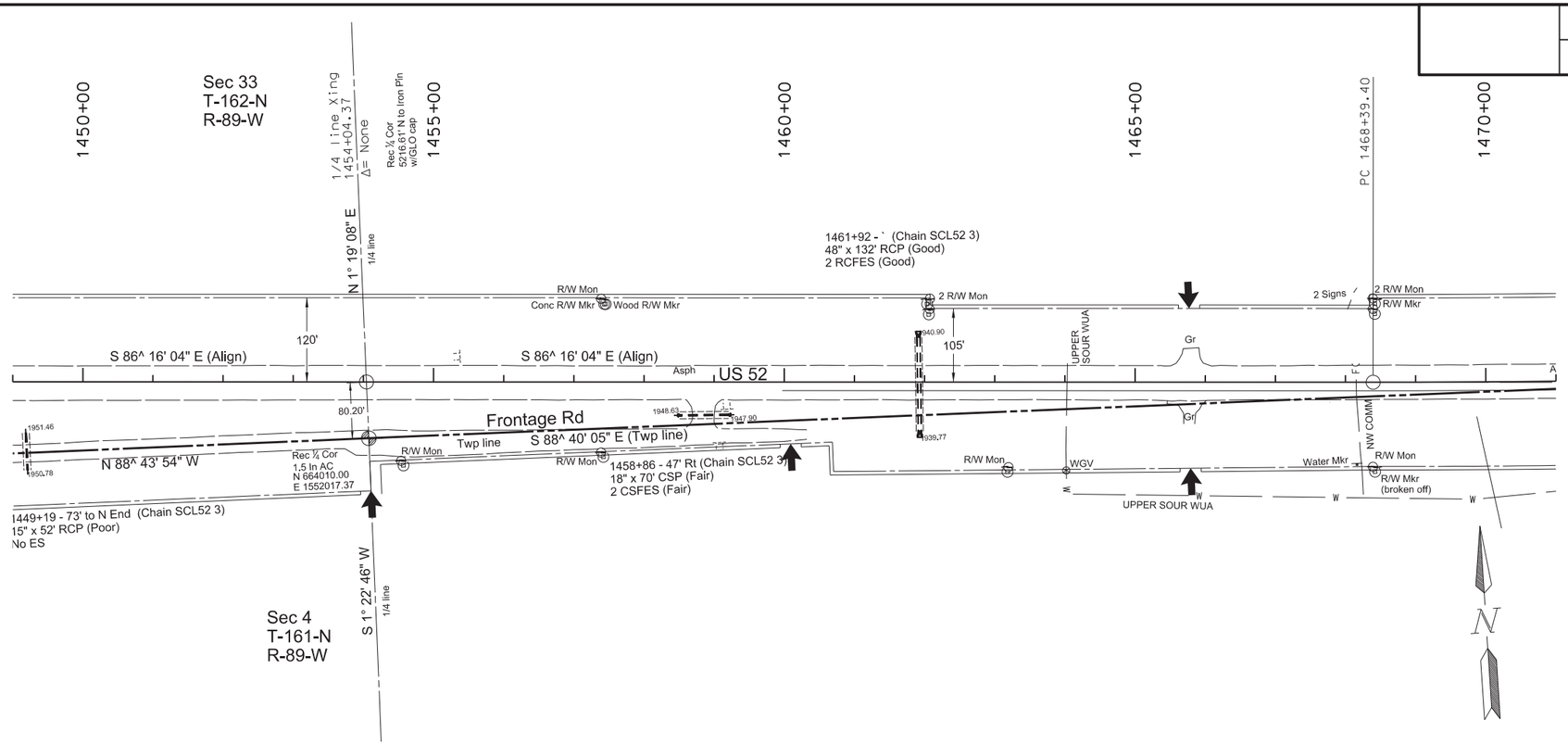

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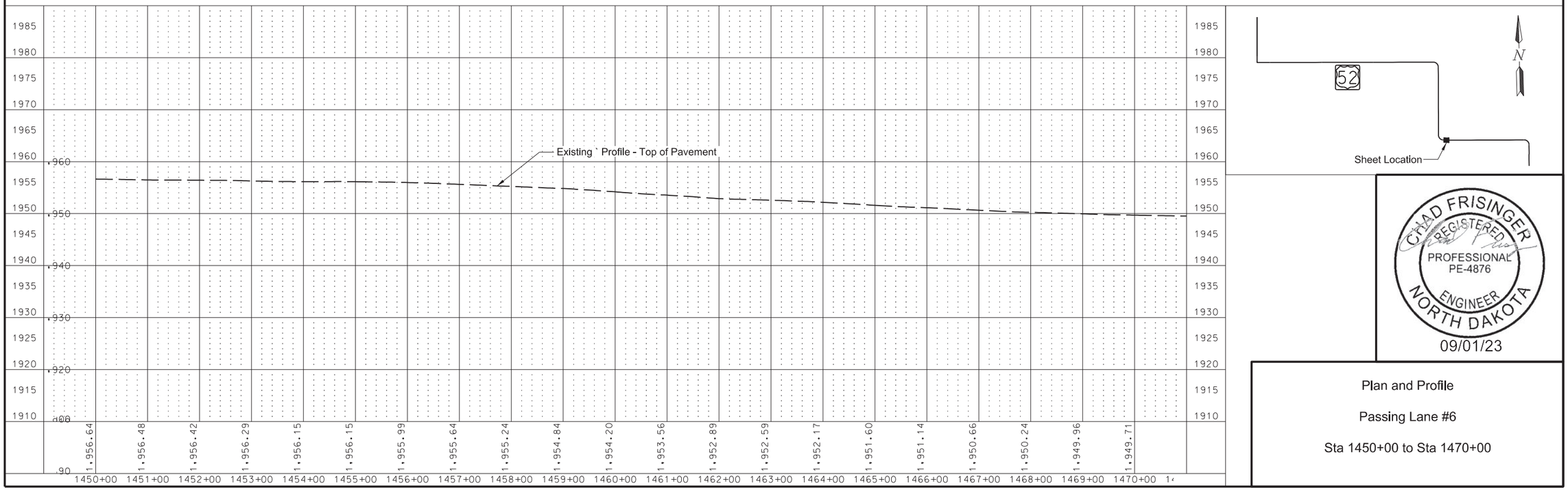
Plan and Profile

Passing Lane #5

Sta 1370+00 to Sta 1390+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 32 |







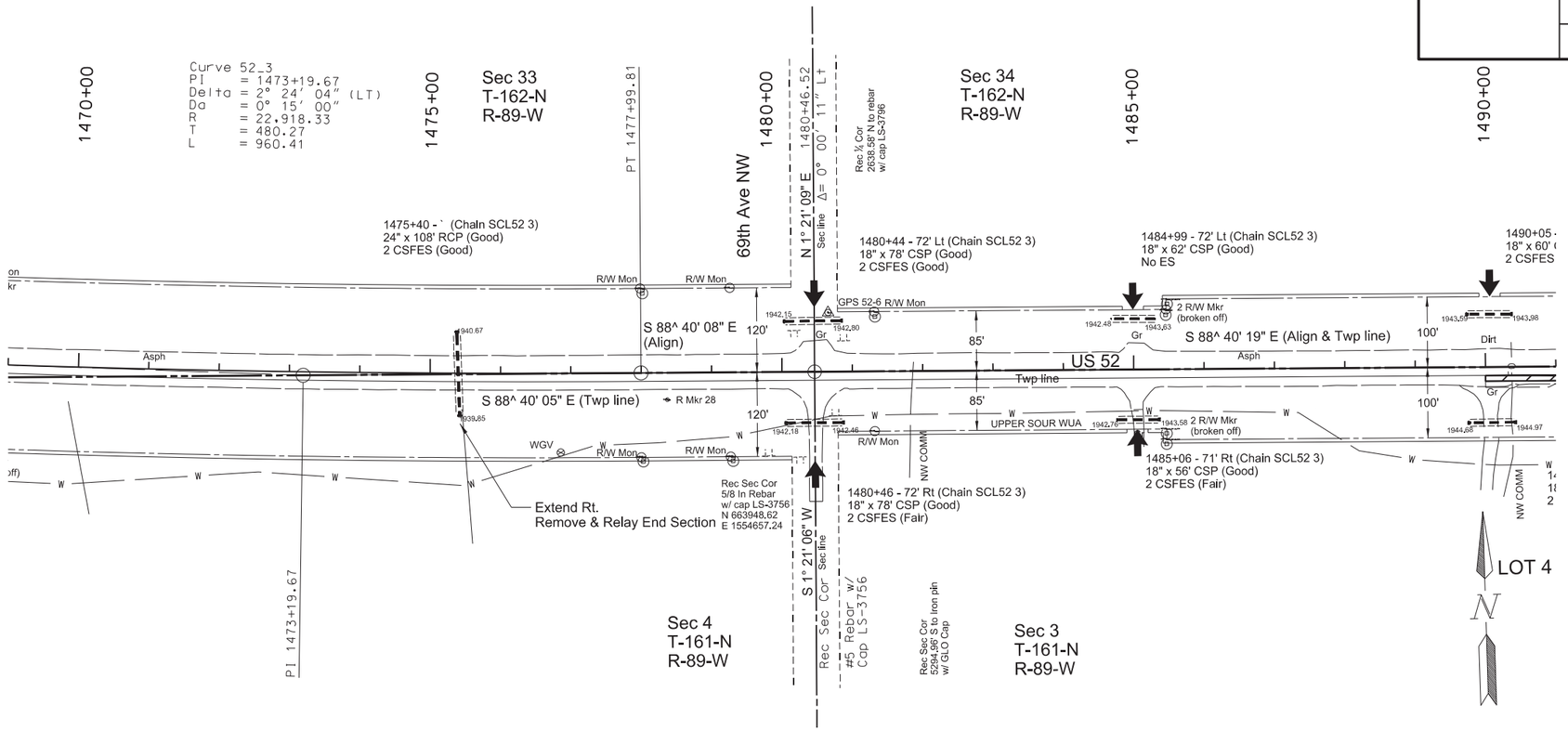
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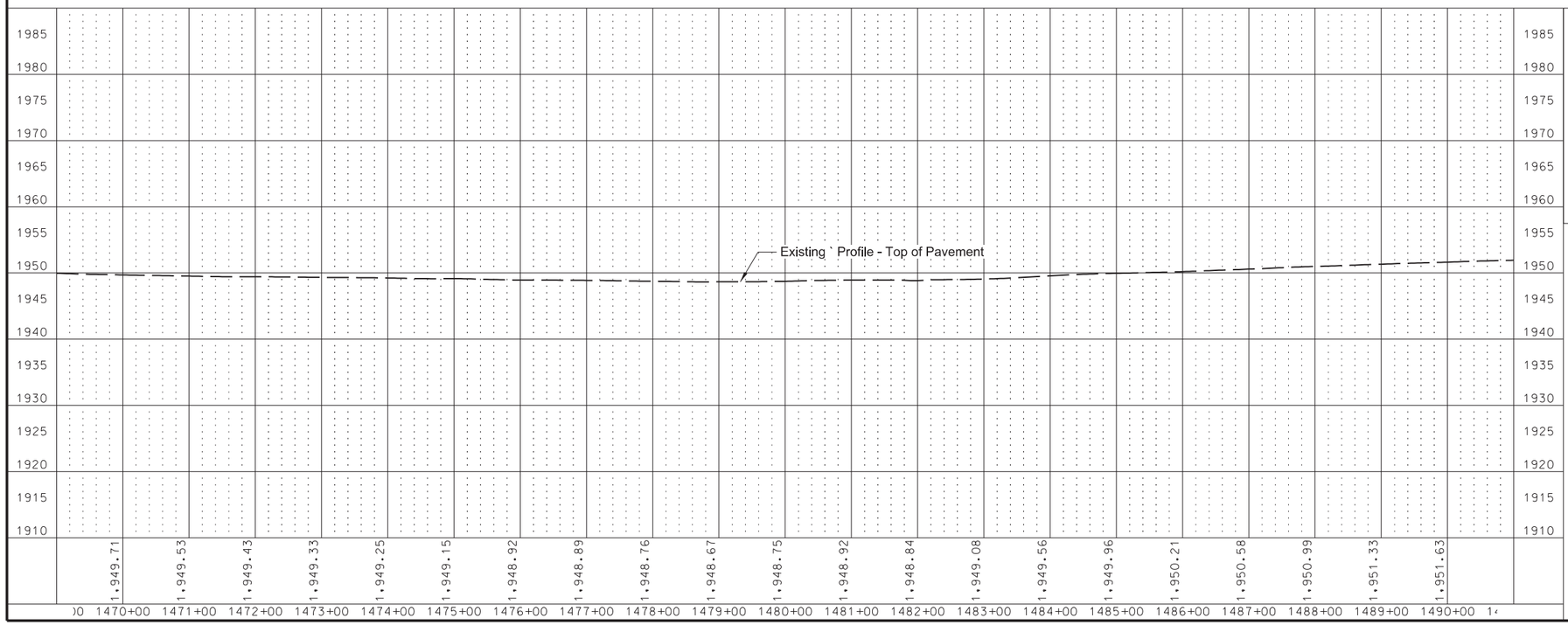
Plan and Profile

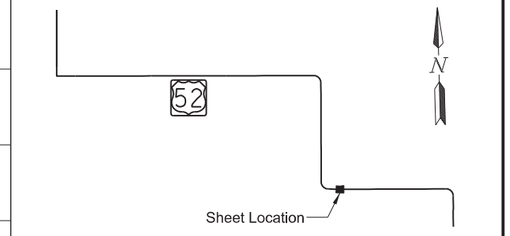
Passing Lane #6

Sta 1450+00 to Sta 1470+00

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 33 |




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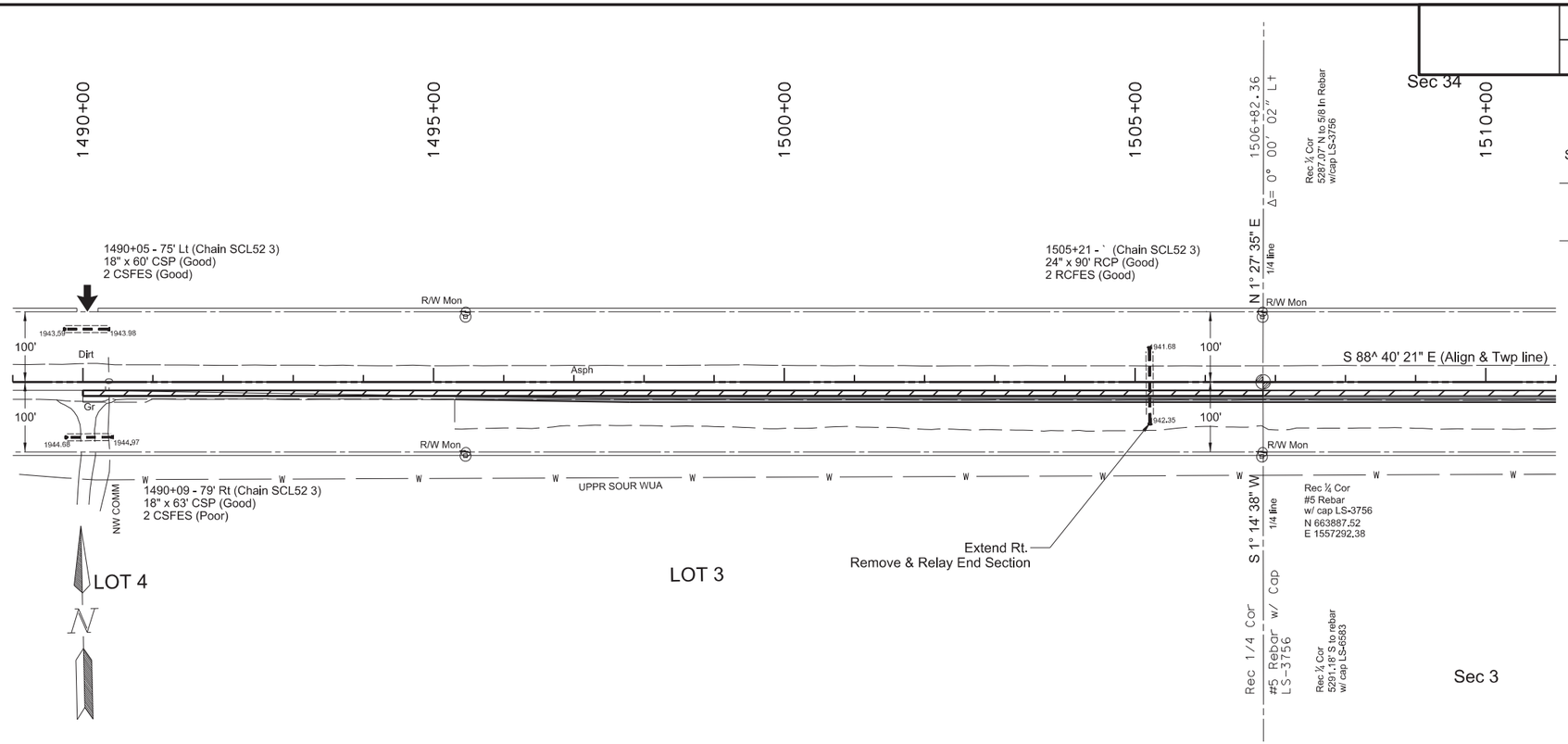
Plan and Profile

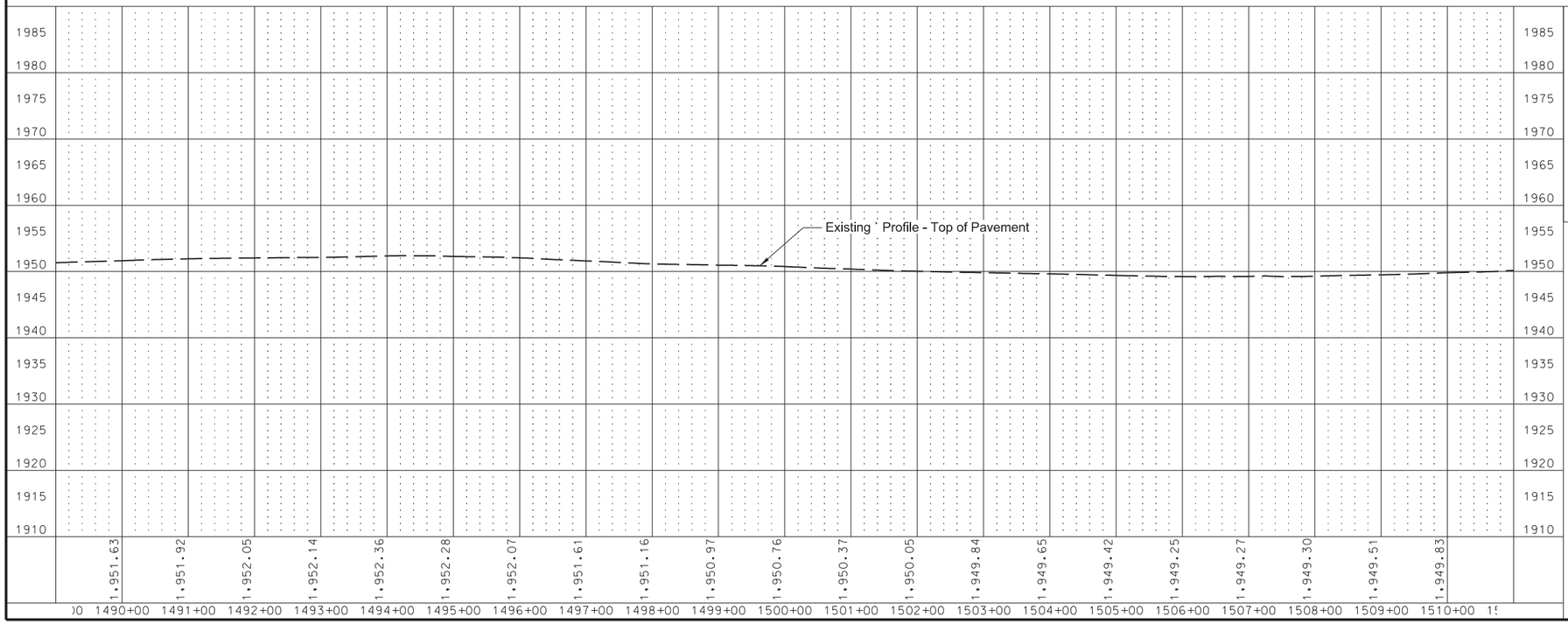
Passing Lane #6

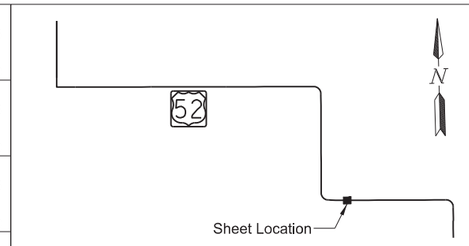
Sta 1470+00 to Sta 1490+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 34 |

| SPEC | CODE | BID ITEM | UNIT | QUANTITY |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1505+21 - CL (Rt) | LF | 8 |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1505+21 - CL (Rt) | EA | 1 |



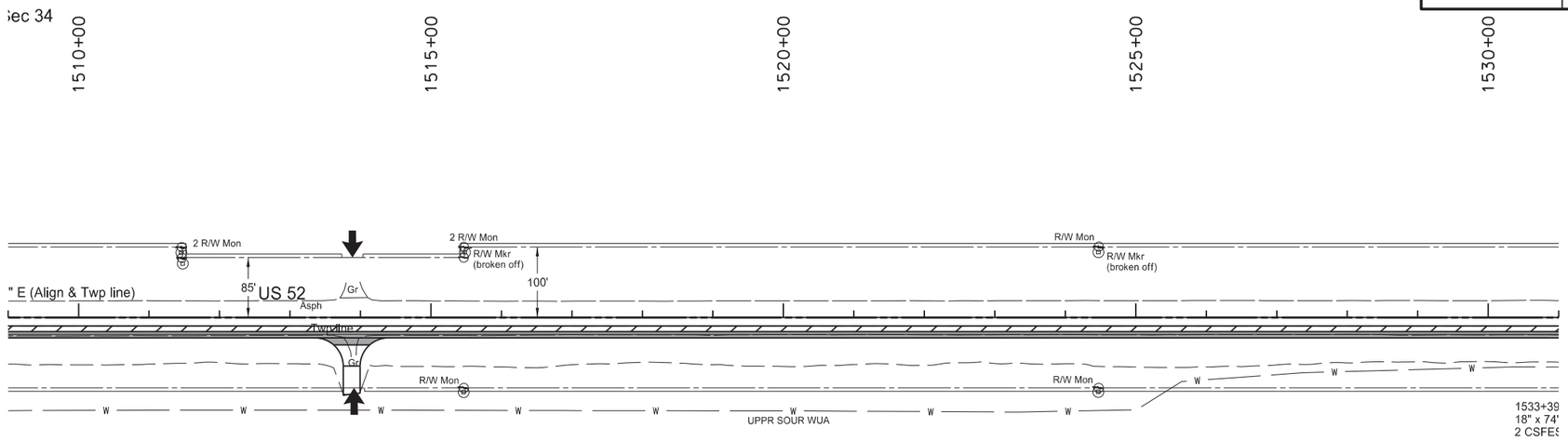

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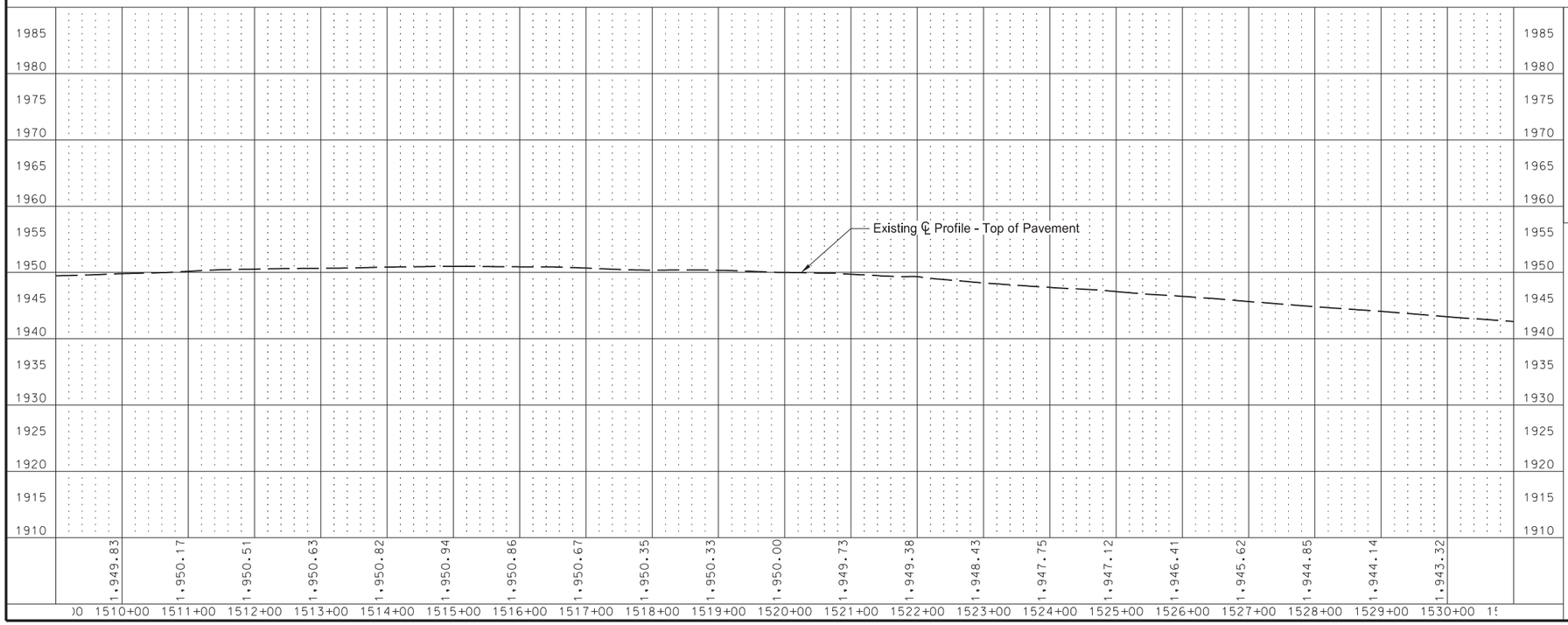
Plan and Profile

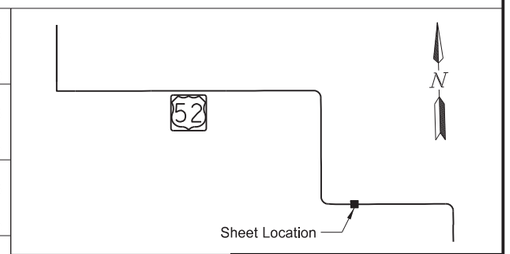
Passing Lane #6

Sta 1490+00 to Sta 1510+00

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 35 |




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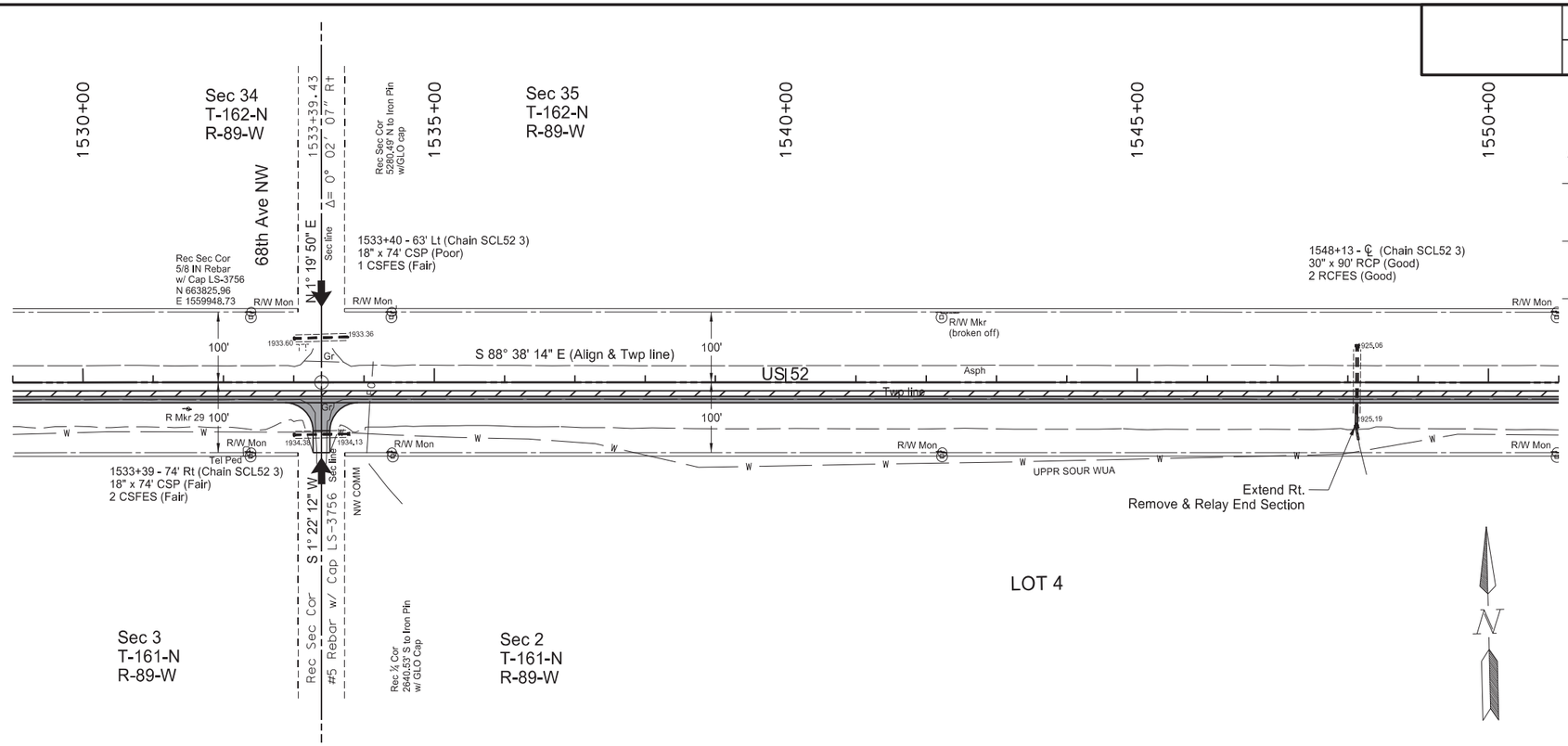
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Plan and Profile

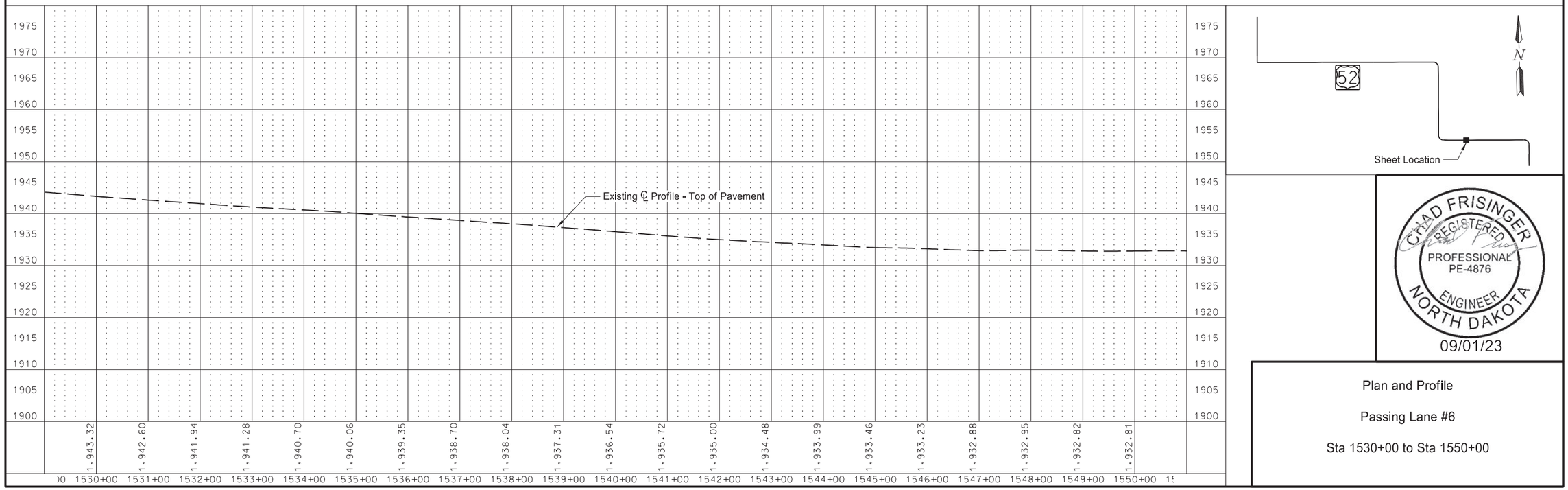
Passing Lane #6

Sta 1510+00 to Sta 1530+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 36 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 1548+13 - CL (Rt) | 14 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1548+13 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1548+13 - CL (Rt) | 1 | EA |







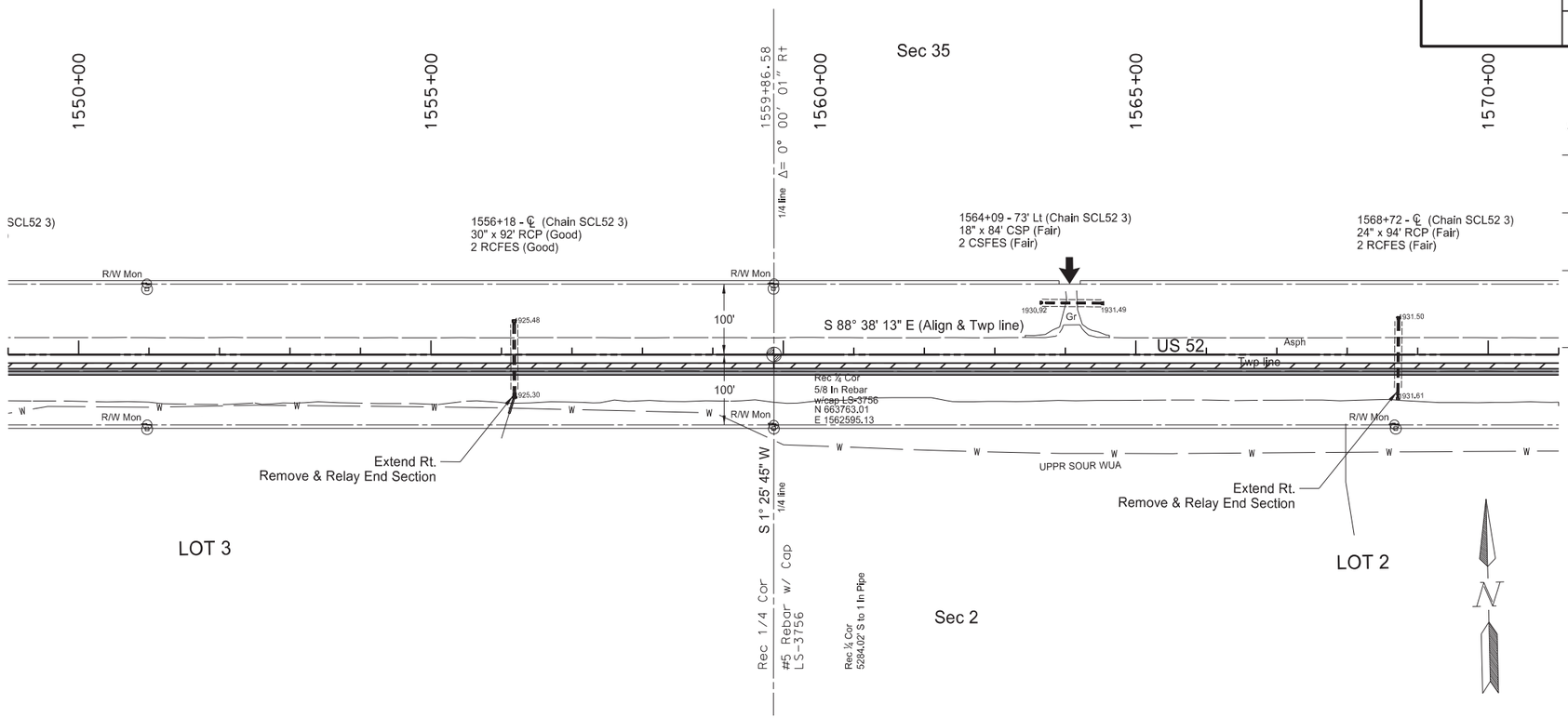
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Plan and Profile

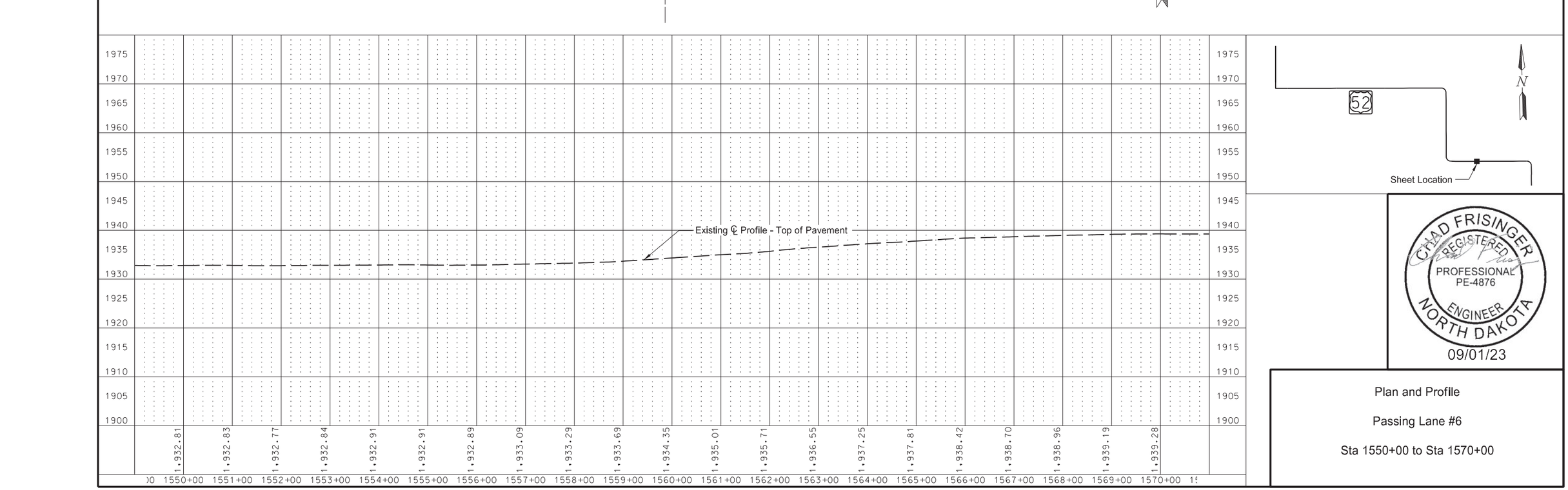
Passing Lane #6

Sta 1530+00 to Sta 1550+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 37 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1568+72 - CL (Rt) | 10 | LF |
| 714 | 820 | PIPE CONC REINF 30IN CL III | | |
| | | Sta 1556+18 - CL (Rt) | 6 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1556+18 - CL (Rt) | 1 | EA |
| | | Sta 1568+72 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1556+18 - CL (Rt) | 1 | EA |
| | | Sta 1568+72 - CL (Rt) | 1 | EA |







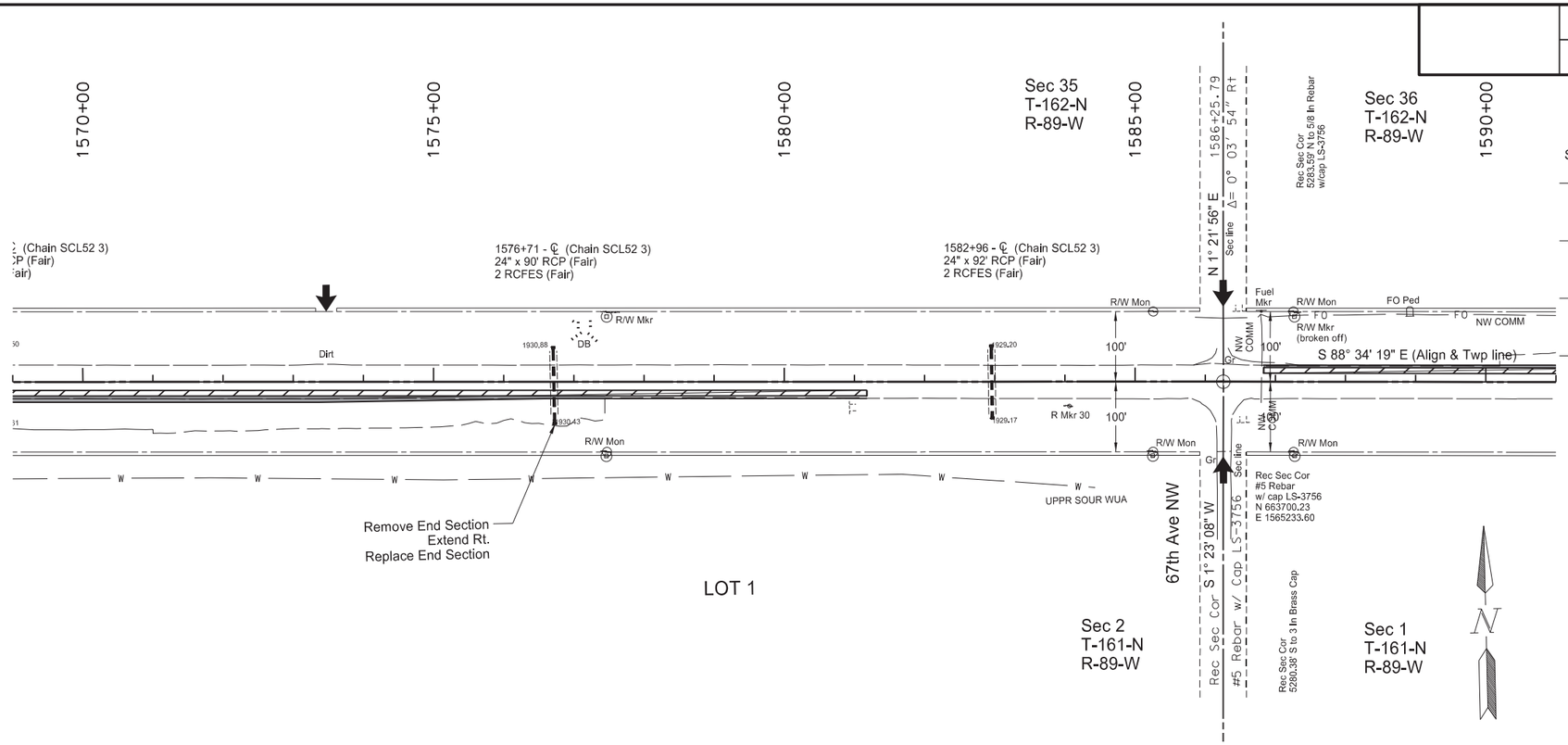
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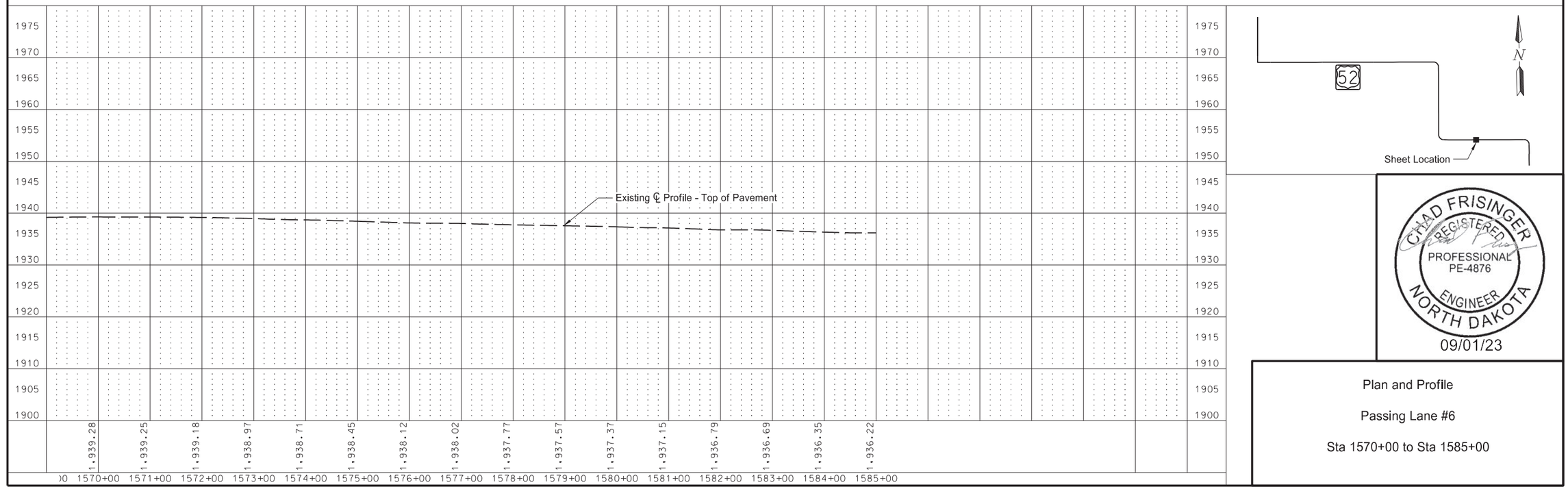
Passing Lane #6

Sta 1550+00 to Sta 1570+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 38 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 1576+71 - CL (Rt) | 1 | EA |
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1576+71 - CL (Rt) | 8 | LF |
| 714 | 3020 | END SECT-CONC REINF 24IN | | |
| | | Sta 1576+71 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1576+71 - CL (Rt) | 1 | EA |







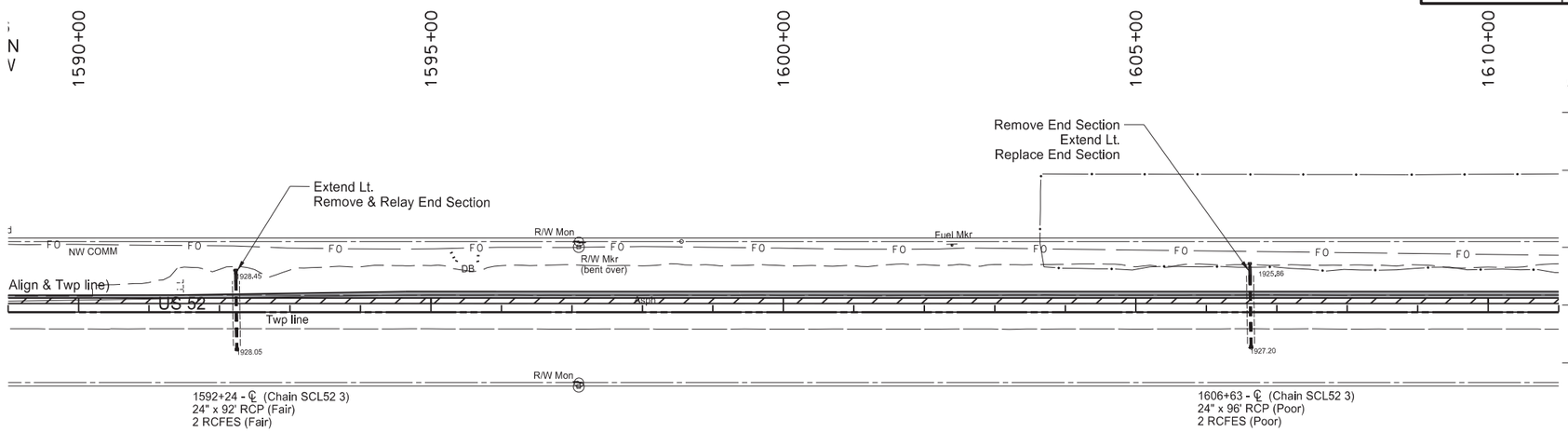
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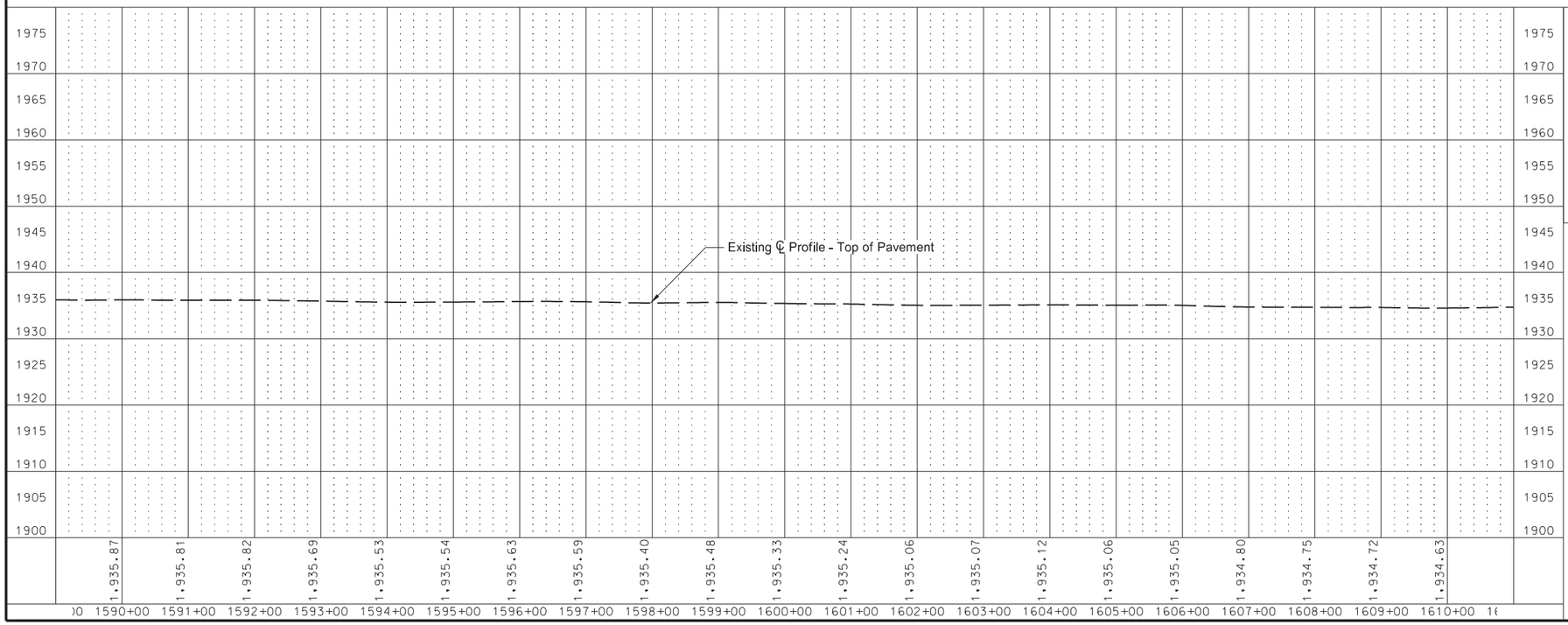
Passing Lane #6

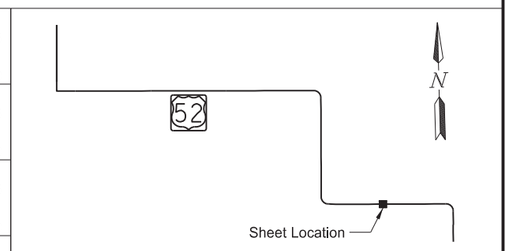
Sta 1570+00 to Sta 1585+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 39 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 202 | 169 | REMOVAL OF END SECTION-ALL TYPES & SIZES | | |
| | | Sta 1606+63 - CL (Lt) | 1 | EA |
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1592+24 - CL (Lt) | 10 | LF |
| | | Sta 1606+63 - CL (Lt) | 12 | LF |
| 714 | 3020 | END SECT-CONC REINF 24IN | | |
| | | Sta 1606+63 - CL (Lt) | 1 | EA |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1592+24 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1592+24 - CL (Lt) | 1 | EA |
| | | Sta 1606+63 - CL (Lt) | 1 | EA |



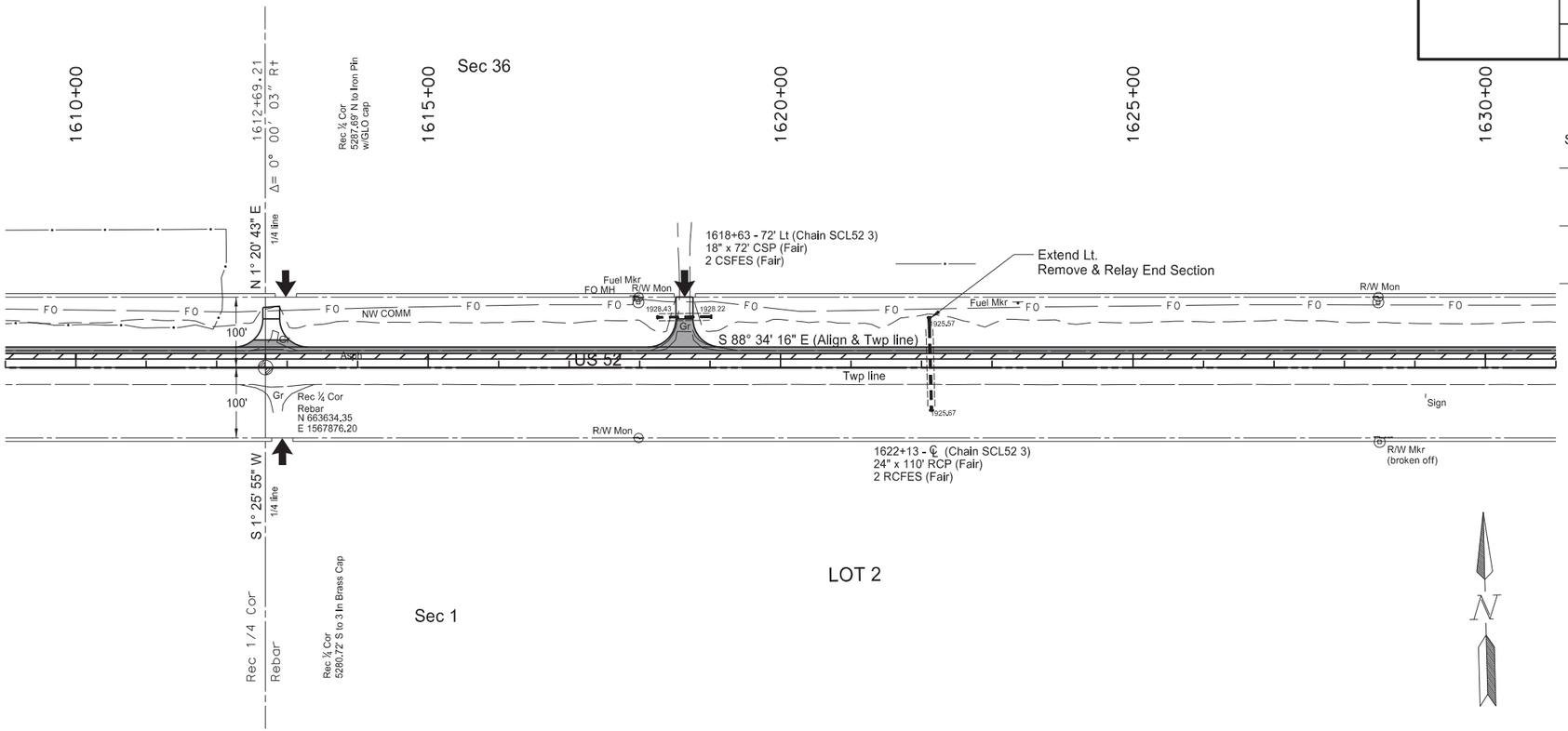

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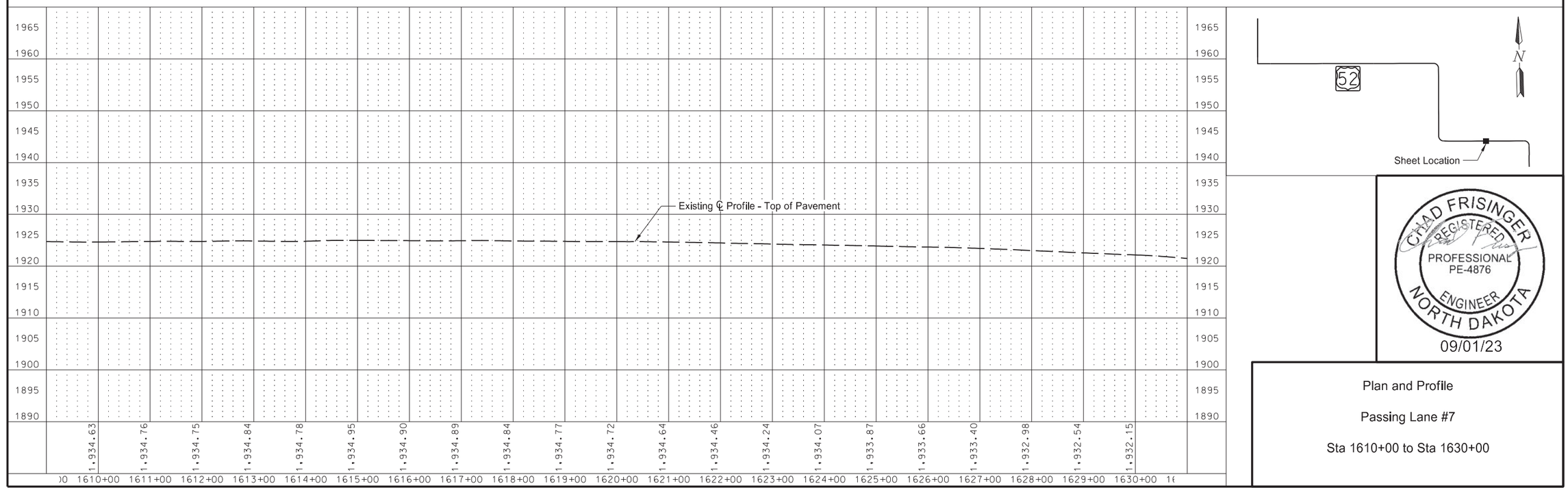
Passing Lane #7

Sta 1590+00 to Sta 1610+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 40 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1622+13 - CL (Lt) | 10 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1622+13 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1622+13 - CL (Lt) | 1 | EA |







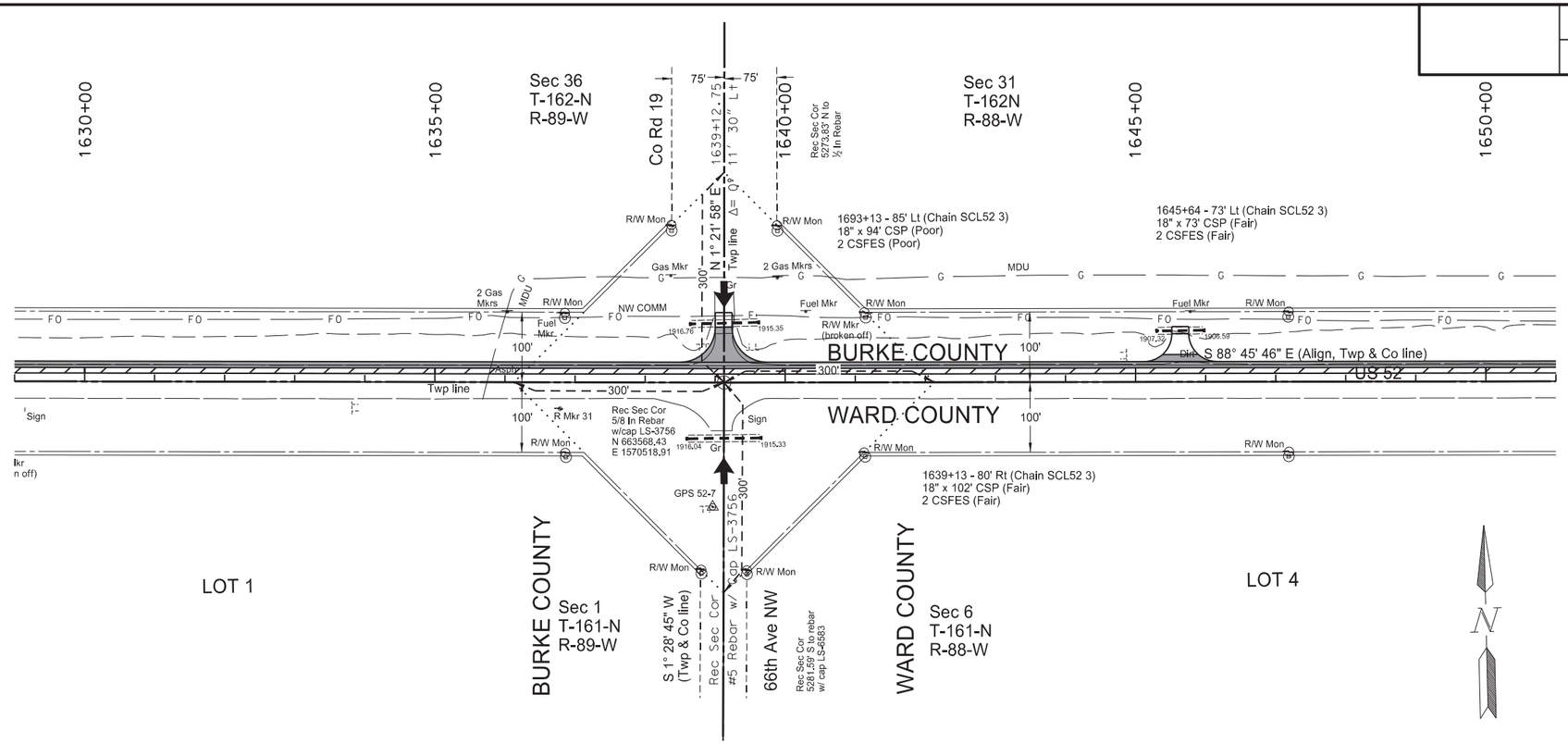
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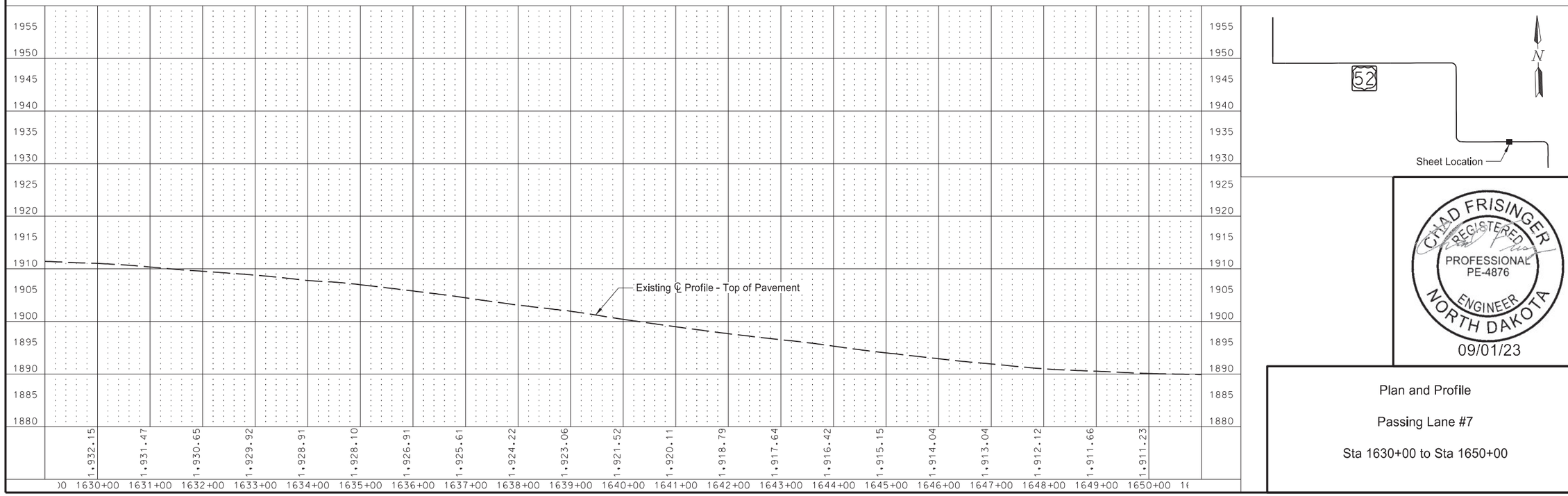
Plan and Profile

Passing Lane #7

Sta 1610+00 to Sta 1630+00

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 60 | 41 |







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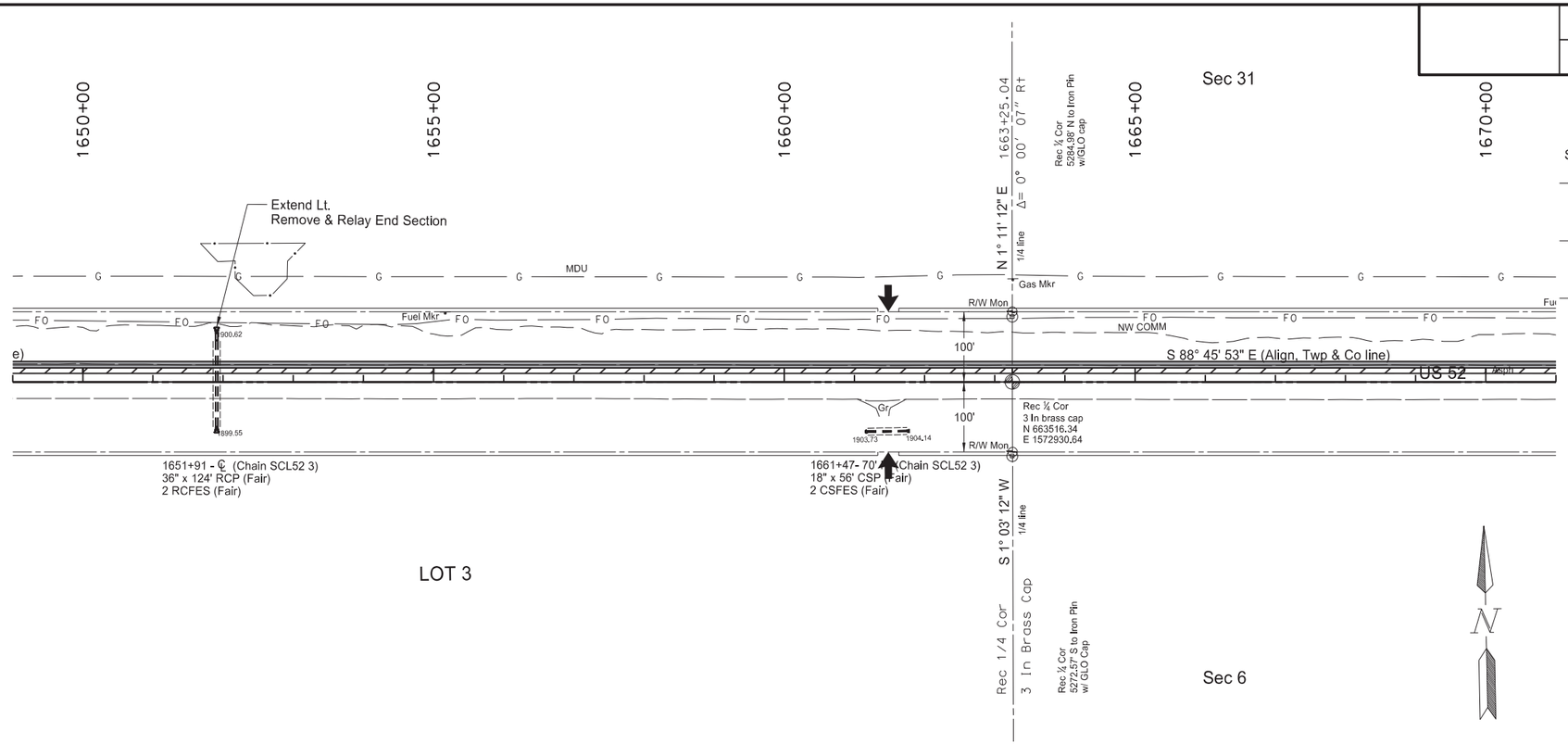
Plan and Profile

Passing Lane #7

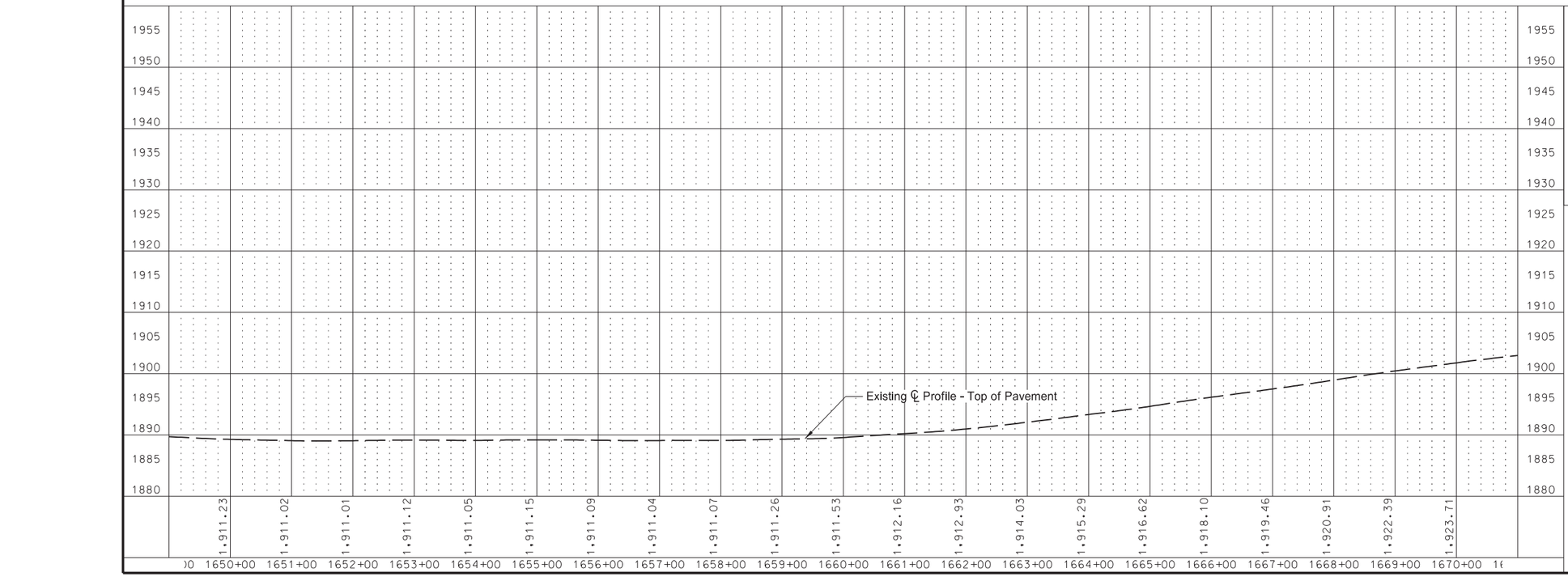
Sta 1630+00 to Sta 1650+00

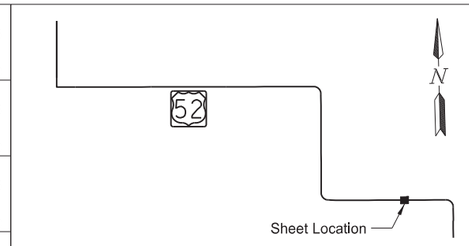
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 42 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 905 | PIPE CONC REINF 36IN CL III | | |
| | | Sta 1651+91 - CL (Lt) | 10 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1651+91 - CL (Lt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1651+91 - CL (Lt) | 1 | EA |



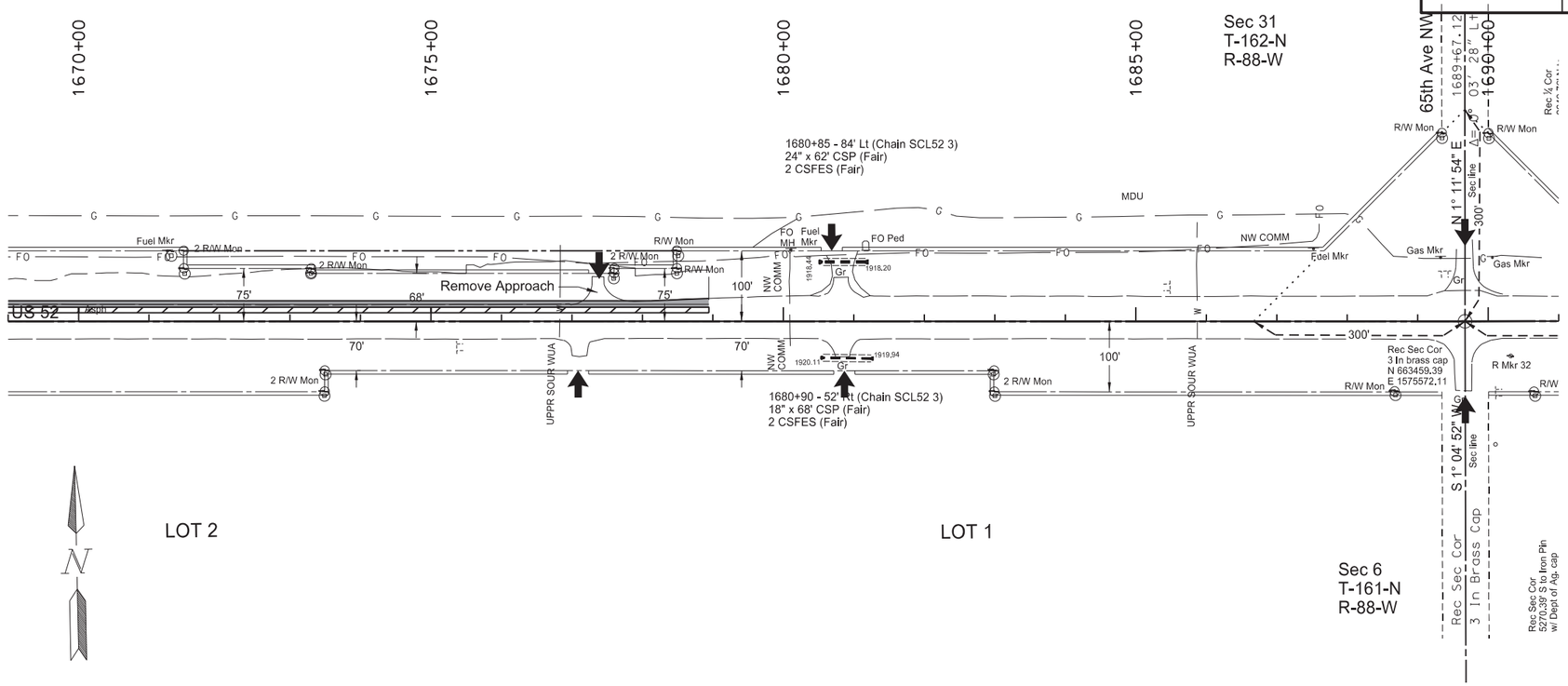

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09/01/23

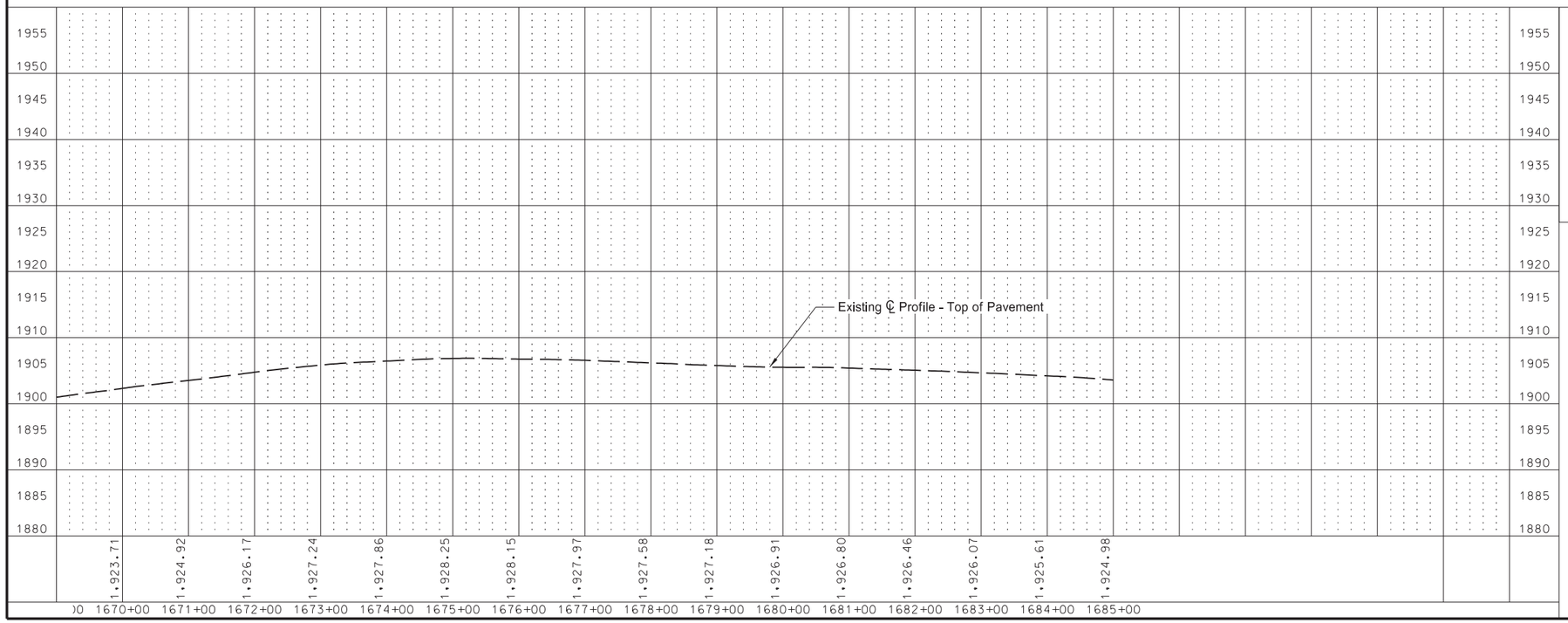
Plan and Profile

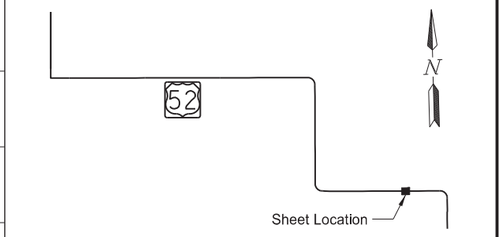
Passing Lane #7

Sta 1650+00 to Sta 1670+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 43 |




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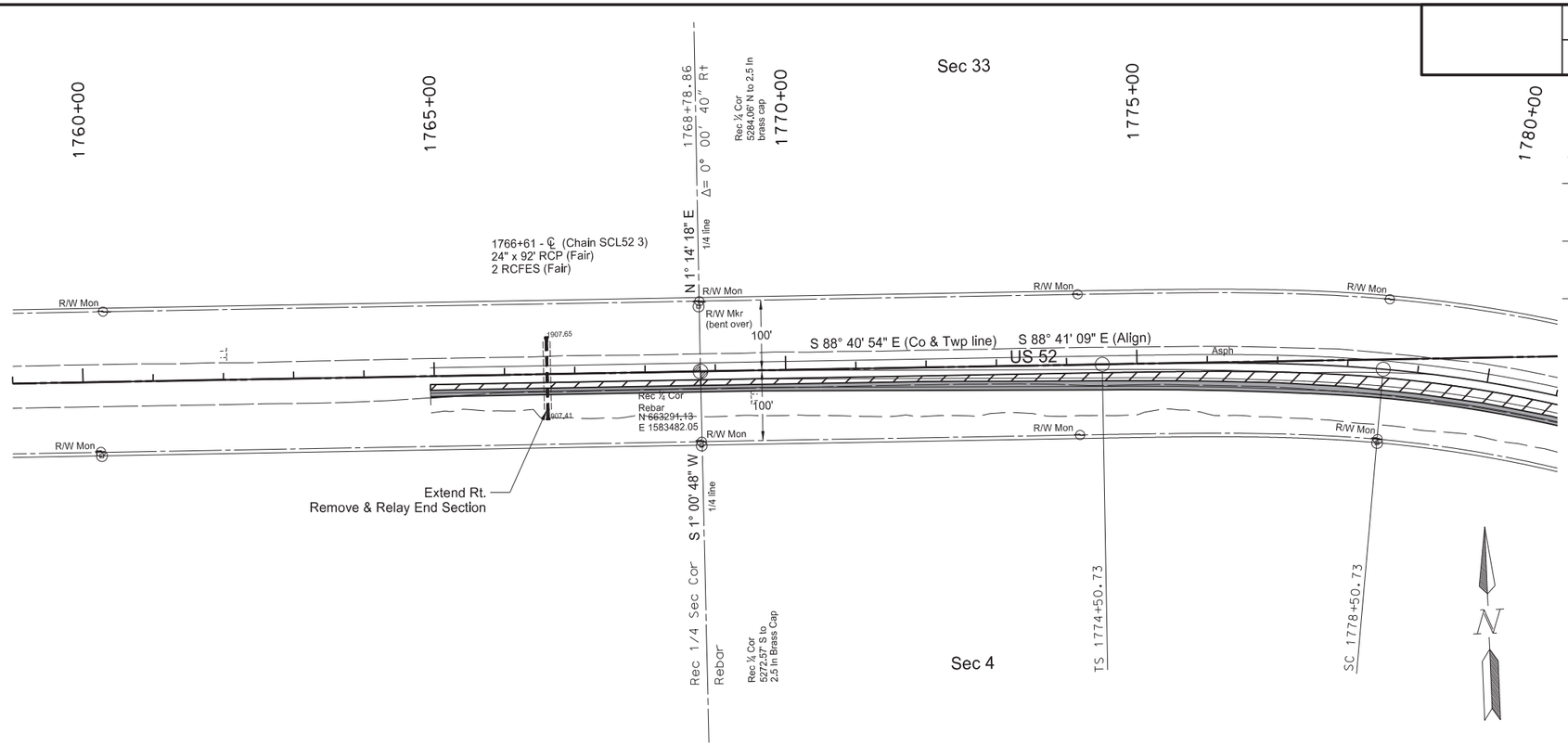
Plan and Profile

Passing Lane #7

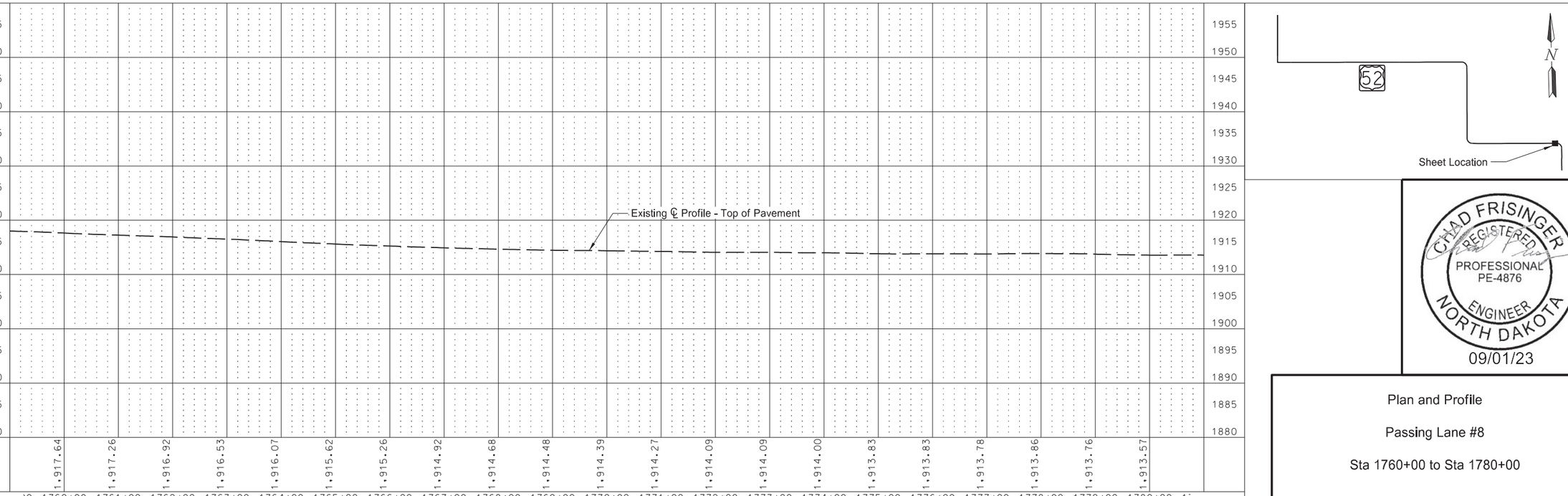
Sta 1670+00 to Sta 1690+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 44 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1766+61 - CL (Rt) | 8 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1766+61 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1766+61 - CL (Rt) | 1 | EA |







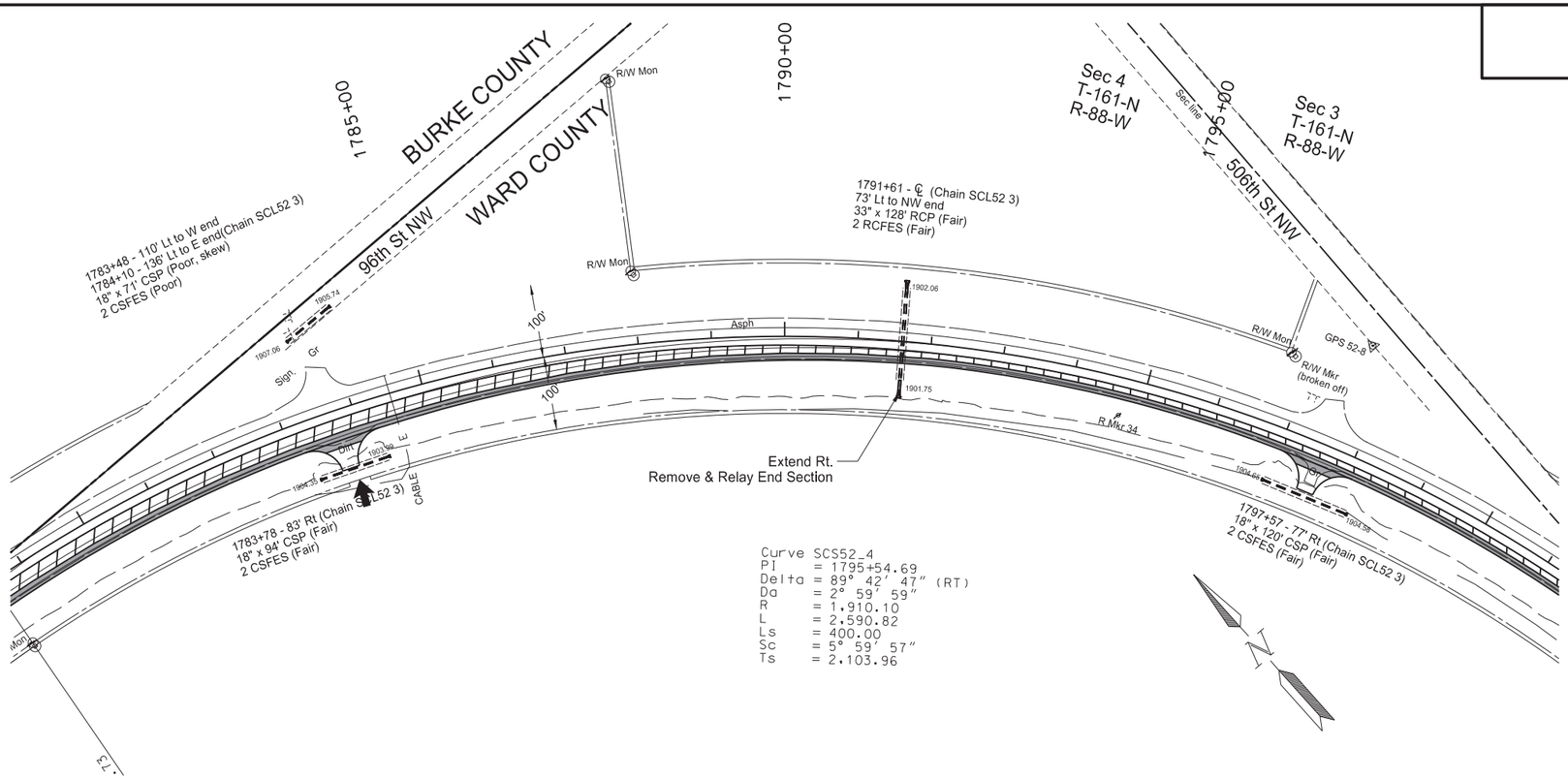
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ENGINEER
NORTH DAKOTA
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Plan and Profile

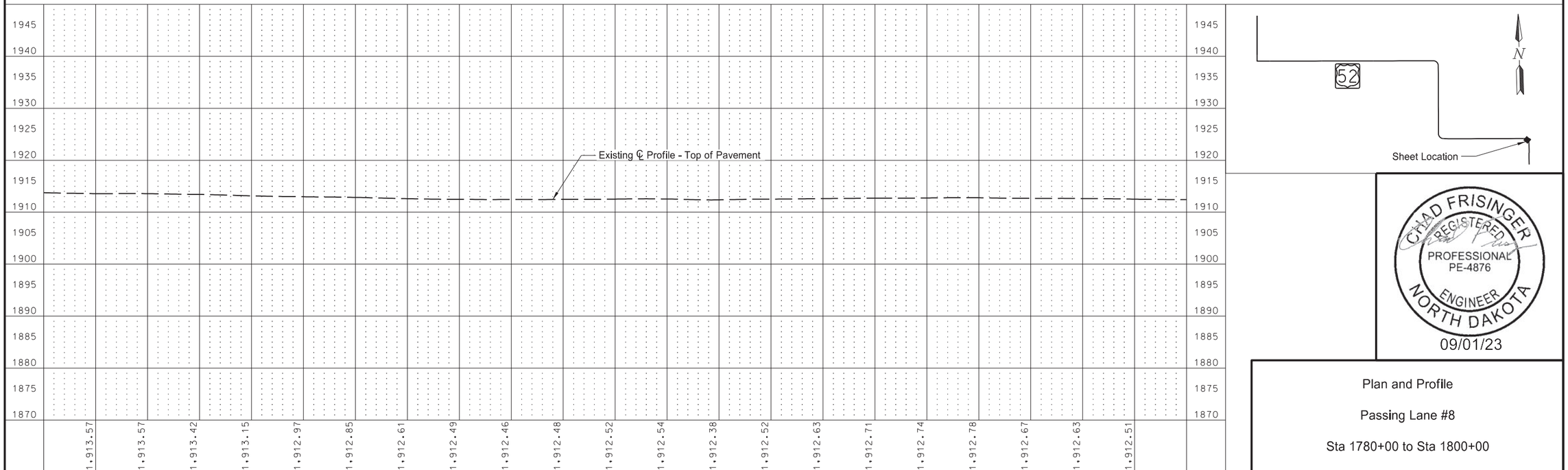
Passing Lane #8

Sta 1760+00 to Sta 1780+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 45 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 865 | PIPE CONC REINF 33IN CL III | | |
| | | Sta 1791+61 - CL (Rt) | 14 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1791+61 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1791+61 - CL (Rt) | 1 | EA |







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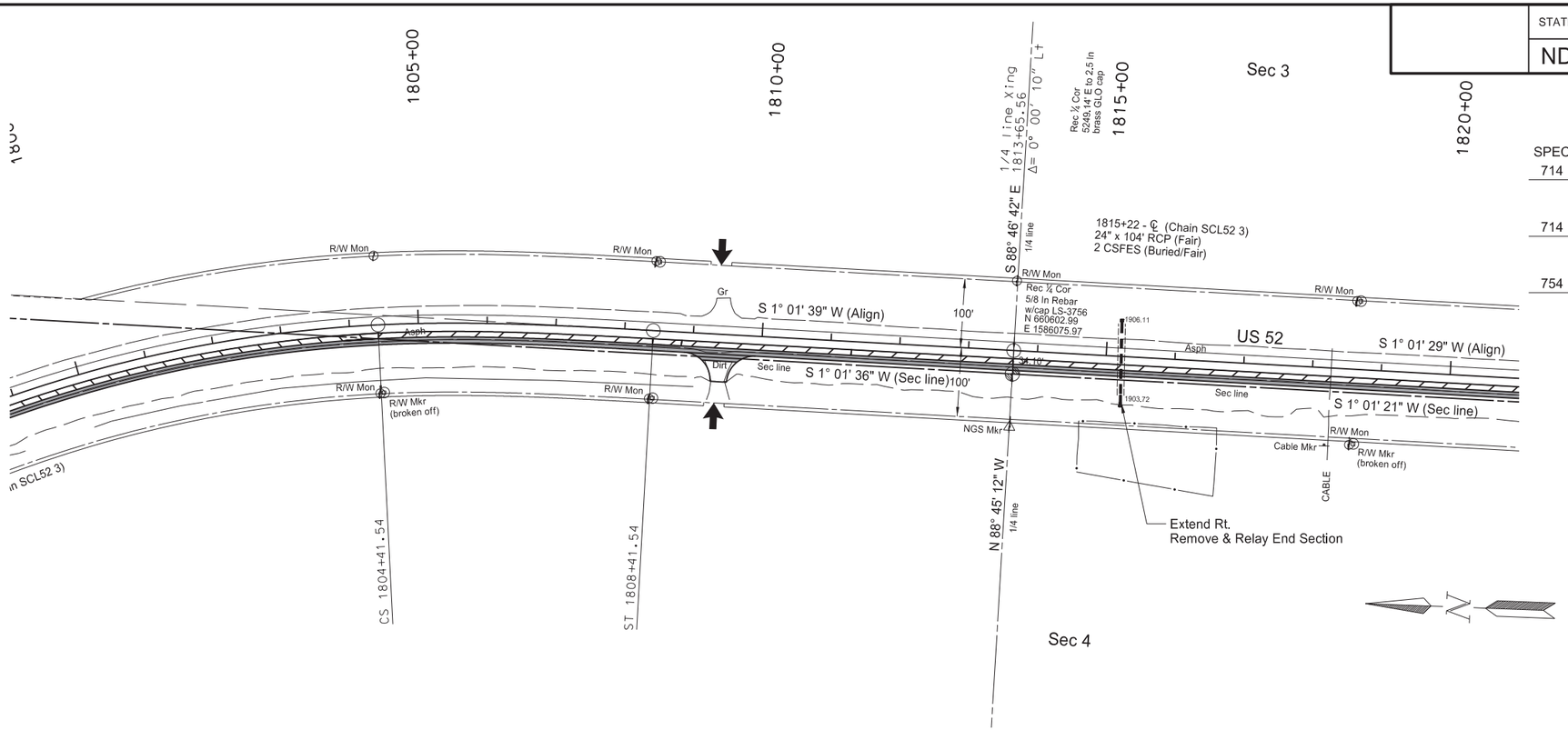
Passing Lane #8

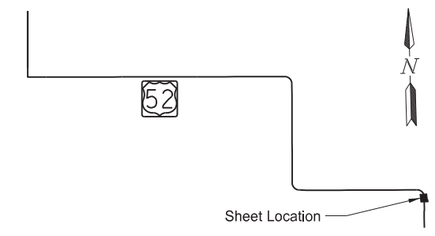
Sta 1780+00 to Sta 1800+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 46 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 714 | 615 | PIPE CONC REINF 24IN CL III | | |
| | | Sta 1815+22 - CL (Rt) | 10 | LF |
| 714 | 9660 | REMOVE & RELAY END SECTION-ALL TYPE & SIZES | | |
| | | Sta 1815+22 - CL (Rt) | 1 | EA |
| 754 | 805 | OBJECT MARKERS - CULVERTS | | |
| | | Sta 1815+22 - CL (Rt) | 1 | EA |



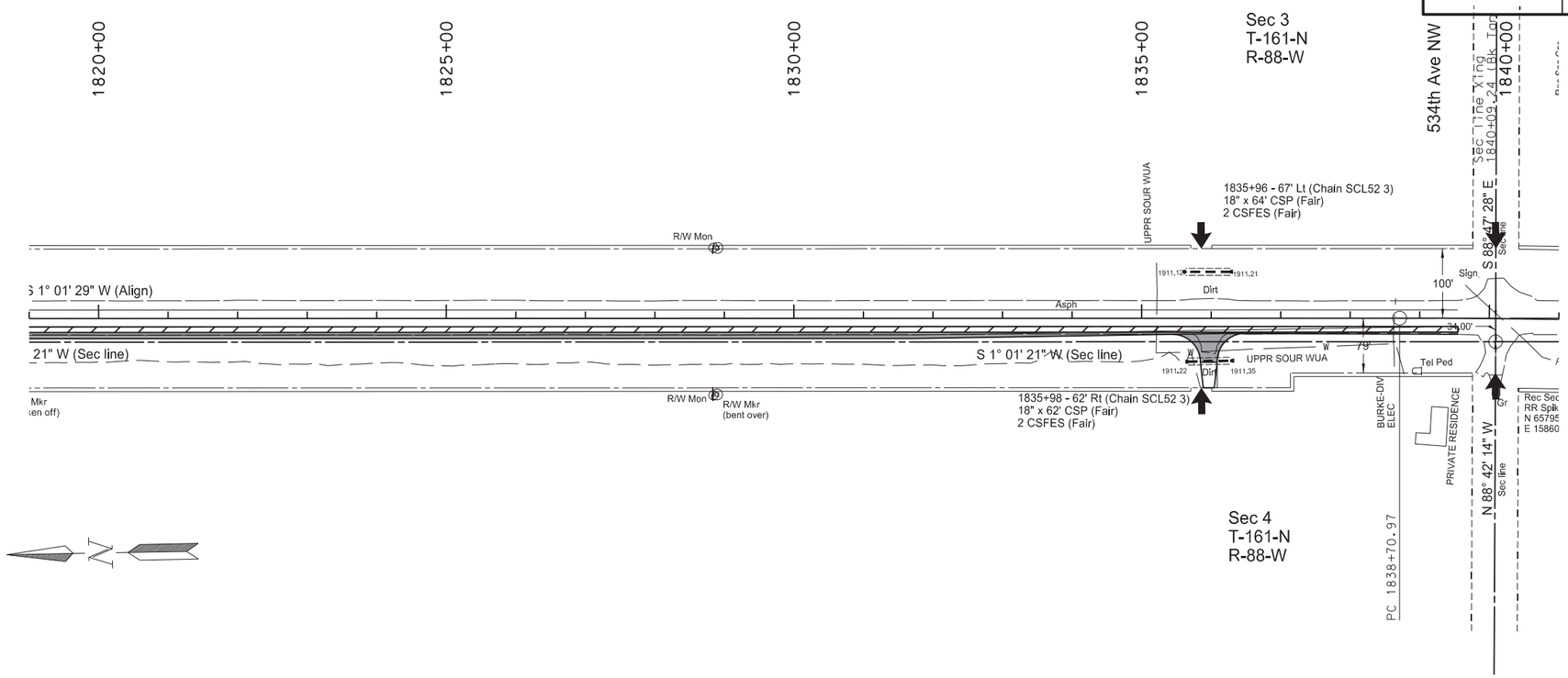

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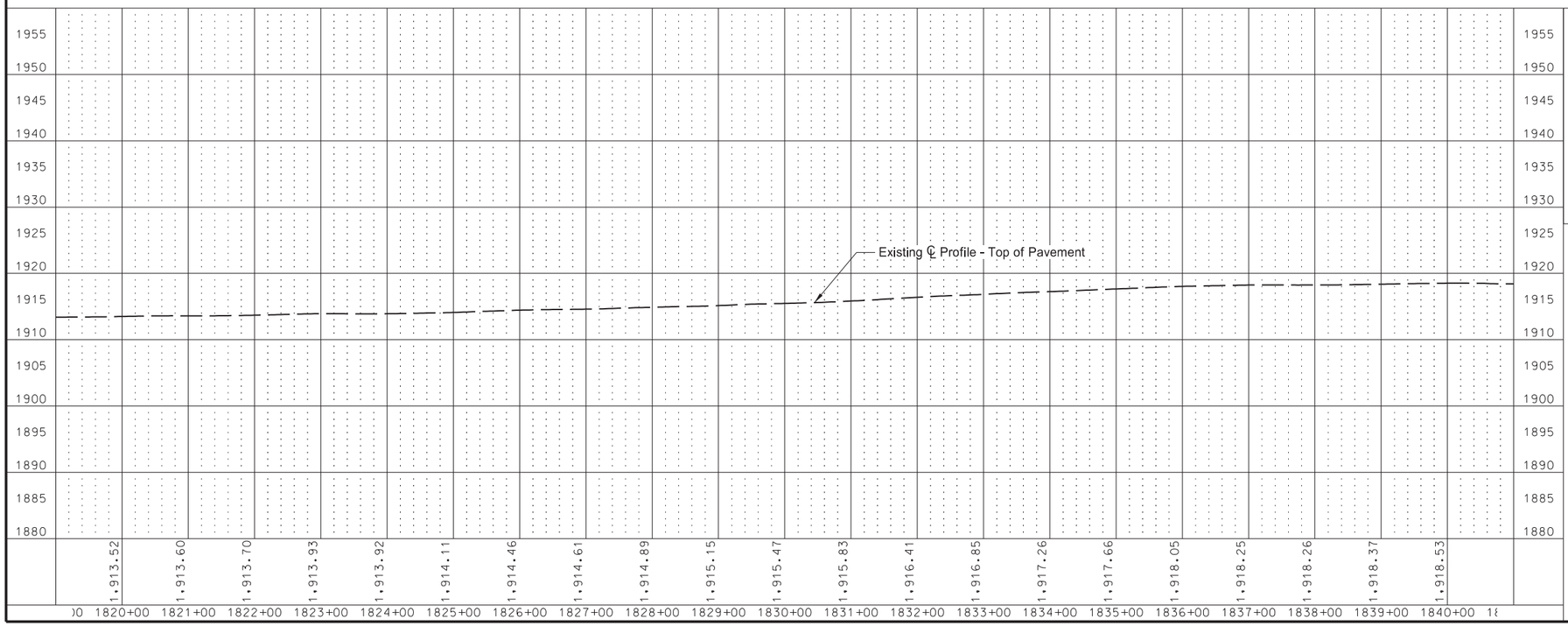
Plan and Profile

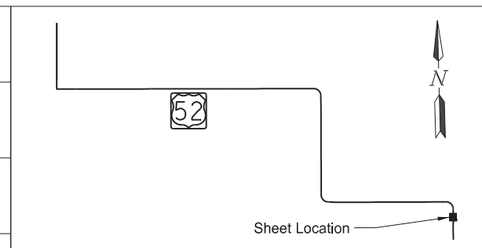
Passing Lane #8

Sta 1800+00 to Sta 1820+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 60 | 47 |




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PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

Plan and Profile

Passing Lane #8

Sta 1820+00 to Sta 1840+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 1 |

| Wetland Number | Location | Wetland Type | Wetland Feature | USACE Jurisdictional Wetlands[1] | Wetland Impacts Acre(s) | | | Wetland Mitigation | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Mitigation Required | | USACE/11990 Bank | | 1990 Bank | | Onsite | | | | |
| | | | | | Temp. | Perm. (Fill/Drain) | Perm. (Cut) | EO 11990 | USACE | Location | Acre(s) | Location | Acre(s) | Mitigation Location; Ratio | Ditch Shift Acre(s) | Onsite Acre(s) | Constructed Site # | Constructed Size Acre(s) |
| 1 | Sec. 18 T163N R91W | Basin | Natural | Y | - | - | - | - | - | | | | | | | | | |
| 2a | Sec. 13 T163N R92W | Basin | Natural | N | 0.182 | 0.108 | 0.000 | Y | N | | | Anderson | 0.108 | | | | | |
| 2b | Sec. 24 T163N R92W | Ditch | Created | N | 0.029 | 0.018 | 0.000 | N | N | | | | | | | | | |
| 3 | Sec. 19 T163N R91W | Slope | Natural | Y | 0.047 | 0.120 | 0.000 | Y | Y | Trego | 0.120 | | | | | | | |
| 4a | Sec. 30 T163N R91W | Basin | Natural | Y | 0.092 | 0.073 | 0.000 | Y | Y | Trego | 0.073 | | | | | | | |
| 4b | Sec. 25 T163N R92W | Ditch | Created | Y | 0.180 | 0.169 | 0.000 | N | Y | Trego<br>Kirkeby/Schuster | 0.124<br>0.09 | | | | | | | |
| 6 | Sec. 30 T163N R91W | Basin | Natural | N | 0.511 | 0.365 | 0.000 | Y | N | | | Anderson | 0.365 | | | | | |
| 7a | Sec. 31 T163N R91W | Ditch | Created | N | - | - | - | - | - | | | | | | | | | |
| 7b | Sec. 31 T163N R91W | Basin | Natural | N | 0.132 | 0.055 | 0.000 | Y | N | | | Anderson | 0.055 | | | | | |
| 9a | Sec. 32 T163N R91W | Ditch | Created | N | - | - | - | - | - | | | | | | | | | |
| 9b | Sec. 5 T162N R91W | Ditch | Created | N | - | - | - | - | - | | | | | | | | | |
| 9c | Sec. 5 T162N R91W | Basin | Natural | N | - | - | - | - | - | | | | | | | | | |
| 9d | Sec. 32 T163N R91W | Ditch | Created | N | - | - | - | - | - | | | | | | | | | |
| 10 | Sec. 33 T163N R91W | Basin | Natural | N | 0.192 | 0.243 | 0.000 | Y | N | | | Anderson | 0.243 | | | | | |
| 11 | Sec. 33 T163N R91W | Basin | Natural | N | 0.357 | 0.275 | 0.000 | Y | N | | | Anderson | 0.275 | | | | | |
| 12a | Sec. 4 T162N R91W | Ditch | Created | N | 0.084 | 0.192 | 0.000 | N | N | | | | | | | | | |
| 12b | Sec. 4 T162N R91W | Basin | Natural | N | 0.679 | 0.403 | 0.000 | Y | N | | | Anderson | 0.403 | | | | | |
| 12c | Sec. 4 T162N R91W | Basin | Created | N | 0.016 | 0.070 | 0.000 | N | N | | | | | | | | | |
| 13 | Sec. 4 T162N R91W | Ditch | Created | N | 0.051 | 0.129 | 0.000 | N | N | | | | | | | | | |
| 14a | Sec. 3 T162N R91W | Ditch | Created | N | 0.034 | 0.500 | 0.000 | N | N | | | | | | | | | |
| 14b | Sec. 3 T162N R91W | Basin | Natural | N | 0.269 | 0.259 | 0.000 | Y | N | | | Anderson | 0.259 | | | | | |
| 15a | Sec. 3 T162N R91W | Ditch | Created | N | 0.000 | 0.024 | 0.000 | N | N | | | | | | | | | |
| 15b | Sec. 2 T162N R91W | Ditch | Created | N | 0.000 | 0.008 | 0.000 | N | N | | | | | | | | | |
| 16 | Sec. 2 T162N R91W | Basin | Natural | N | - | - | - | - | - | | | | | | | | | |
| 17a | Sec. 34 T163N R90W | Basin | Natural | Y | - | - | - | - | - | | | | | | | | | |
| 17b | Sec. 34 T163N R90W | Ditch | Created | Y | 0.030 | 0.000 | 0.000 | N | N | | | | | | | | | |
| 18 | Sec. 34 T163N R90W | Ditch | Created | N | 0.195 | 0.133 | 0.000 | N | N | | | | | | | | | |
| 19 | Sec. 35 T163N R90W | Ditch | Created | N | 0.128 | 0.048 | 0.000 | N | N | | | | | | | | | |
| 20 | Sec. 35 T163N R90W | Ditch | Created | N | 0.057 | 0.101 | 0.000 | N | N | | | | | | | | | |
| 21 | Sec. 35 T163N R90W | Slope | Natural | Y | 0.034 | 0.027 | 0.000 | Y | N | | | Anderson | 0.027 | | | | | |
| 22 | Sec. 36 T163N R90W | Ditch | Created | N | 0.006 | 0.000 | 0.000 | N | N | | | | | | | | | |
| 23 | Sec. 36 T163N R90W | Ditch | Created | N | - | - | - | - | - | | | | | | | | | |
| 24 | Sec. 31 T163N R89W | Ditch | Created | N | - | | - | - | - | | | | | | | | | |
| 25a | Sec. 5 T162N R89W | Ditch | Created | Y | - | - | - | - | - | | | | | | | | | |
| 25b | Sec. 5 T162N R89W | Basin | Natural | Y | - | - | - | - | - | | | | | | | | | |
| 25c | Sec. 5 T162N R89W | Ditch | Created | Y | - | - | - | - | - | | | | | | | | | |
| 26 | Sec. 5 T162N R89W | Ditch | Created | Y | - | - | - | - | - | | | | | | | | | |
| 27 | Sec. 8 T162N R89W | Ditch | Created | N | 0.095 | 0.002 | 0.000 | N | N | | | | | | | | | |
| 28a | Sec. 8 T162N R89W | Ditch | Created | N | 0.050 | 0.002 | 0.000 | N | N | | | | | | | | | |
| 28b | Sec. 17 T162N R89W | Ditch | Created | N | 0.070 | 0.000 | 0.000 | N | N | | | | | | | | | |
| 29a | Sec. 17 T162N R89W | Slope | Natural | Y | 0.039 | 0.034 | 0.000 | Y | N | | | Anderson | 0.034 | | | | | |
| 29b | Sec. 17 T162N R89W | Ditch | Created | N | 0.013 | 0.000 | 0.000 | N | N | | | | | | | | | |
| 29c | Sec. 17 T162N R89W | Ditch | Created | N | 0.014 | 0.005 | 0.000 | N | N | | | | | | | | | |
| 30 | Sec. 17 T162N R89W | Ditch | Created | N | 0.024 | 0.027 | 0.000 | N | N | | | | | | | | | |
| 31a | Sec. 16 T162N R89W | Ditch | Created | N | 0.050 | 0.043 | 0.000 | N | N | | | | | | | | | |
| 31b | Sec. 21 T162N R89W | Ditch | Created | N | 0.372 | 0.234 | 0.000 | N | N | | | | | | | | | |
| 32a | Sec. 21 T162N R89W | Ditch | Created | N | 0.001 | 0.021 | 0.000 | N | N | | | | | | | | | |
| 32b | Sec. 21 T162N R89W | Ditch | Created | N | 0.065 | 0.045 | 0.000 | N | N | | | | | | | | | |
| 32c | Sec. 21 T162N R89W | Ditch | Created | N | 0.193 | 0.152 | 0.000 | N | N | | | | | | | | | |
| 32d | Sec. 21 T162N R89W | Basin | Natural | Y | 0.382 | 0.231 | 0.000 | Y | Y | Kirkeby/Schuster 2:1 | 0.462 | | | | | | | |
| 32e | Sec. 21 T162N R89W | Ditch | Created | N | 0.395 | 0.219 | 0.000 | N | N | | | | | | | | | |
| 33 | Sec. 28 T162N R89W | Ditch | Created | N | 1.230 | 0.418 | 0.000 | N | N | | | | | | | | | |
| 34a | Sec. 28 T162N R89W | Ditch | Created | N | 0.032 | 0.026 | 0.000 | N | N | | | | | | | | | |

REGISTERED PROFESSIONAL ENGINEER
CAVEN D PATCH
PE-10611
DATE 9/13/2023
NORTH DAKOTA

Wetland Impact Table

Passing Lanes

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 2 |

| Wetland Number | Location | Wetland Type | Wetland Feature | USACE Jurisdictional Wetlands[1] | Wetland Impacts Acre(s) | | | Wetland Mitigation | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Mitigation Required | | USACE/11990 Bank | | 1990 Bank | | Onsite | | | | |
| | | | | | Temp. | Perm. (Fill/Drain) | Perm. (Cut) | EO 11990 | USACE | Location | Acre(s) | Location | Acre(s) | Mitigation Location; Ratio | Ditch Shift Acre(s) | Onsite Acre(s) | Constructed Site # | Constructed Size Acre(s) |
| 34b | Sec. 28 T162N R89W | Ditch | Created | **N** | 0.047 | 0.030 | 0.000 | N | N | | | | | | | | | |
| 34c | Sec. 28 T162N R89W | Ditch | Created | **N** | 0.417 | 0.227 | 0.000 | N | N | | | | | | | | | |
| 34d | Sec. 28 T162N R89W | Basin | Natural | **N** | 0.067 | 0.043 | 0.000 | Y | N | | | | | | | | | |
| 35 | Sec. 28 T162N R89W | Ditch | Created | **N** | 0.079 | 0.084 | 0.000 | N | N | | | | | | | | | |
| 36 | Sec. 33 T162N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 37 | Sec. 33 T162N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 38 | Sec. 33 T162N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 39 | Sec. 33 T162N R89W | Ditch | Created | **Y** | - | - | - | - | - | | | | | | | | | |
| 40a | Sec. 33 T162N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 40b | Sec. 33 T162N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 41 | Sec. 4 T161N R89W | Slope | Natural | **Y** | - | - | - | - | - | | | | | | | | | |
| 42 | Sec. 3 T161N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 43 | Sec. 3 T161N R89W | Ditch | Created | **N** | 0.283 | 0.109 | 0.000 | N | N | | | | | | | | | |
| 44 | Sec. 2 T161N R89W | Riverine | Natural | **Y** | - | - | - | - | - | | | | | | | | | |
| 45 | Sec. 2 T161N R89W | Ditch | Created | **N** | 0.068 | 0.021 | 0.000 | N | N | | | | | | | | | |
| 46 | Sec. 2 T161N R89W | Ditch | Created | **N** | 0.007 | 0.000 | 0.000 | N | N | | | | | | | | | |
| 47a | Sec. 2 T161N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 47b | Sec. 35 T162N R89W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 48 | Sec. 36 T162N R89W | Ditch | Created | **N** | 0.189 | 0.043 | 0.000 | N | N | | | | | | | | | |
| 49 | Sec. 36 T162N R89W | Basin | Natural | **N** | 0.478 | 0.287 | 0.000 | Y | N | | | Anderson | 0.287 | | | | | |
| 50a | Sec. 36 T162N R89W | Ditch | Created | **N** | 0.200 | 0.046 | 0.000 | N | N | | | | | | | | | |
| 50b | Sec. 36 T162N R89W | Ditch | Created | **N** | 0.086 | 0.026 | 0.000 | N | N | | | | | | | | | |
| 50c | Sec. 36 T162N R89W | Basin | Natural | **N** | 0.123 | 0.028 | 0.000 | Y | N | | | Anderson | 0.028 | | | | | |
| 51 | Sec. 36 T162N R89W | Basin | Natural | **N** | - | - | - | - | - | | | | | | | | | |
| 52a | Sec. 36 T162N R89W | Ditch | Created | **N** | 0.031 | 0.001 | 0.000 | N | N | | | | | | | | | |
| 52b | Sec. 31 T162N R88W | Ditch | Created | **N** | 0.156 | 0.043 | 0.000 | N | N | | | | | | | | | |
| 52c | Sec. 31 T162N R88W | Basin | Natural | **Y** | 0.509 | 0.255 | 0.000 | Y | Y | Kirkeby/Schuster 2:1 | 0.510 | | | | | | | |
| 52d | Sec. 31 T162N R88W | Ditch | Created | **Y** | 0.029 | 0.004 | 0.000 | N | Y | Kirkeby/Schuster 2:1 | 0.008 | | | | | | | |
| 54a | Sec. 31 T162N R88W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 54b | Sec. 31 T162N R88W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 54c | Sec. 32 T162N R88W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 55 | Sec. 4 T161N R88W | Ditch | Created | **N** | - | - | - | - | - | | | | | | | | | |
| 56a | Sec. 4 T161N R88W | Ditch | Created | **N** | 0.066 | 0.031 | 0.000 | N | N | | | | | | | | | |
| 56b | Sec. 4 T161N R88W | Ditch | Created | **N** | 0.533 | 0.285 | 0.000 | N | N | | | | | | | | | |
| 56c | Sec. 4 T161N R88W | Ditch | Created | **N** | 0.148 | 0.114 | 0.000 | N | N | | | | | | | | | |
| 56d | Sec. 4 T161N R88W | Basin | Natural | **N** | 0.276 | 0.136 | 0.000 | Y | N | | | Anderson | 0.136 | | | | | |
| 56e | Sec. 4 T161N R88W | Ditch | Created | **N** | 0.379 | 0.109 | 0.000 | N | N | | | | | | | | | |
| 57a | Sec. 4 T161N R88W | Ditch | Created | **N** | 0.142 | 0.073 | 0.000 | N | N | | | | | | | | | |
| 57b | Sec. 4 T161N R88W | Basin | Natural | **N** | 0.246 | 0.159 | 0.000 | Y | N | | | Anderson | 0.159 | | | | | |
| 58 | Sec. 4 T161N R88W | Ditch | Created | **N** | 0.162 | 0.054 | 0.000 | N | N | | | | | | | | | |
| 59a | Sec. 9 T161N R88W | Basin | Natural | **N** | - | - | - | - | - | | | | | | | | | |
| 59b | Sec. 9 T161N R88W | Basin | Natural | **N** | - | - | - | - | - | | | | | | | | | |
| 134 | Sec. 30 T163N R91W | Slope | Natural | **Y** | 0.006 | 0.006 | 0.000 | Y | N | | | Anderson | 0.006 | | | | | |
| 135a | Sec. 31 T163N R91W | Basin | Natural | **N** | - | - | - | - | - | | | | | | | | | |
| 135b | Sec. 31 T163N R91W | Basin | Natural | **N** | | | | | | | | | | | | | | |
| | | | | Totals | **11.057** | **6.993** | **0.000** | | | **Totals** | **1.387** | | **2.385** | | **0.000** | **0.000** | | |

[1] An Approved Jurisdictional Determination was issued by the USACE on 3/4/2022 and an Approved and Premilimeanty Jurisdictional Determaination was issued on 7/19/23; NWO-2019-02129-BIS.

REGISTERED PROFESSIONAL ENGINEER
CAVALIER COUNTY
PE-10611
DATE 9/13/2023
NORTH DAKOTA

Wetland Impact Table

Passing Lanes

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 75 | 3 |

## Other Waters-d Impact Table

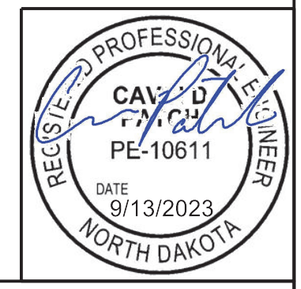
| | | | | | Impacts to Other Waters | | | | | | Other Water Mitigation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Acres | | | Linear Feet | | | Mitigation Proposed | | | USACE Mitigation Bank | | Onsite Mitigaiton Method | | Onsite Constructed Location | |
| Number | Location | Type | Feature | USACE Jurisdictional[1] | Temp. | Perm. (Fill/Drain) | Perm. (Cut) | Temp. | Perm. (Fill/Drain) | Perm. (Cut) | EO 11990 | USACE | USFWS | Location | Acre(s) | Mitigation Location; ratio | Acre(s) | Onsite Constructed Site # | Onsite Constructed Size Acre(s) |
| OW1-D | Sec 4 T-161-N R-89-W | Ephemeral Swale | Natural | Y | - | - | - | - | - | - | | | | | | | | | |
| OW2-D | Sec. 4, T161N, R89W | Ephemeral Swale | Natural | Y | - | - | - | - | - | - | | | | | | | | | |
| OW3-D | Sec. 2, T161N, R89W | Perennial Stream | Natural | Y | 0.0009 | 0.0003 | - | 15.0 | 5.3 | - | | | | | | | | | |
| OW4-D | Sec. 2, T161N, R89W | Ephemeral Swale | Natural | Y | 0.0009 | 0.0004 | - | 15.0 | 7.2 | - | | | | | | | | | |
| OW5-D | Sec. 2, T161N, R89W | Perennial Stream | Natural | Y | - | - | - | - | - | - | | | | | | | | | |
| | | | | Totals | 0.0018 | 0.0007 | - | 30.0 | 12.5 | - | | | | | | | | | |

## PCN 22484 Impact Summary Table

| Permanent Impact Summary | | Temporary Impacts and additional information | |
|---|---|---|---|
| Wetland Type | Total (Acres) | Wetland Type | Total (Acres/Lf) |
| Natural/JD (Fill/Drain) | 0.746 | Temporary JD | 1.348 |
| Natural/Non-JD | 2.361 | Non-JD Temporary | 9.709 |
| Artificial/JD (Fill/Drain) | 0.173 | Permanent JD > 0.10 | 0.852 |
| Artificial /Non-JD | 3.713 | Permanent OW | 0.0007/ 12.5 |
| Total | 6.993 | Temporary OW | 0.0018/ 30 |
| JD Natural | 0.000 | | |
| JD Artificial (Cut) | 0.000 | | |
| Non-JD Natural (Cut) | 0.000 | | |
| Non-JD Artificial | 0.000 | | |
| Total | 0.000 | | |

## PCN 22484 Mitigation Summary Table

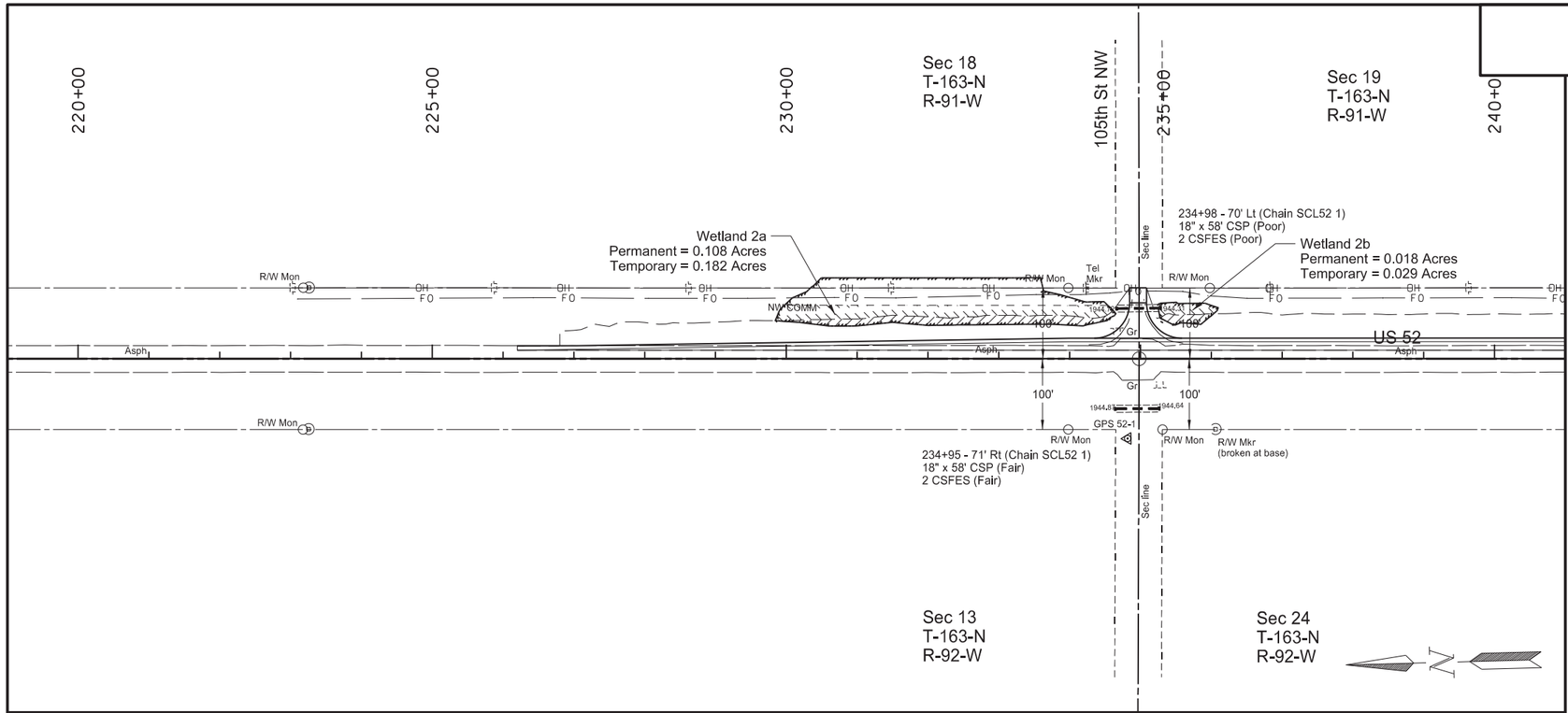
| | Location | 11990 Bank Acre(s) | USACE/11990 Bank Acer(s) |
|---|---|---|---|
| EO 11990 Only | Anderson Bank | 2.385 | |
| USACE/11990 | Trego | | 0.317 |
| USACE/11990 | Kirkeby/Schuster | | 1.070 |
| | Total | 2.385 | 1.387 |

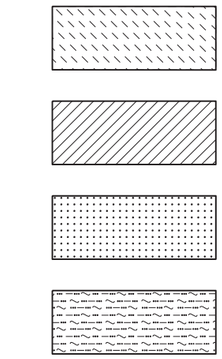


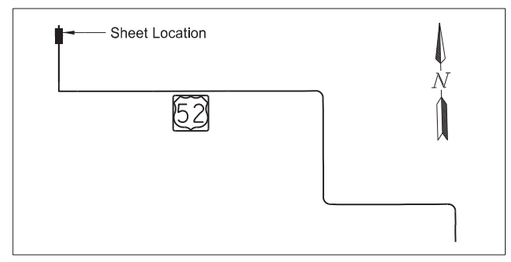

Wetland Impact Table

Passing Lanes

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 4 |





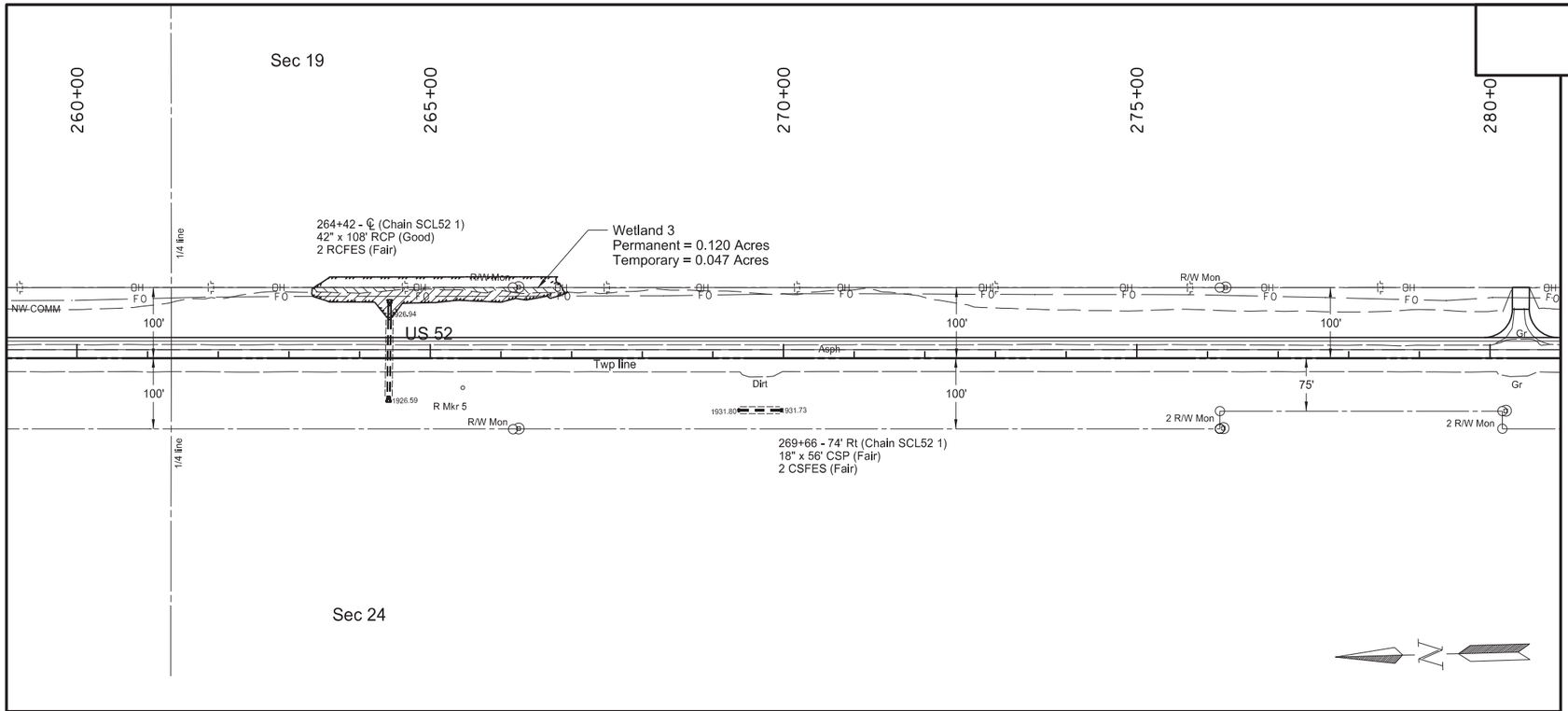


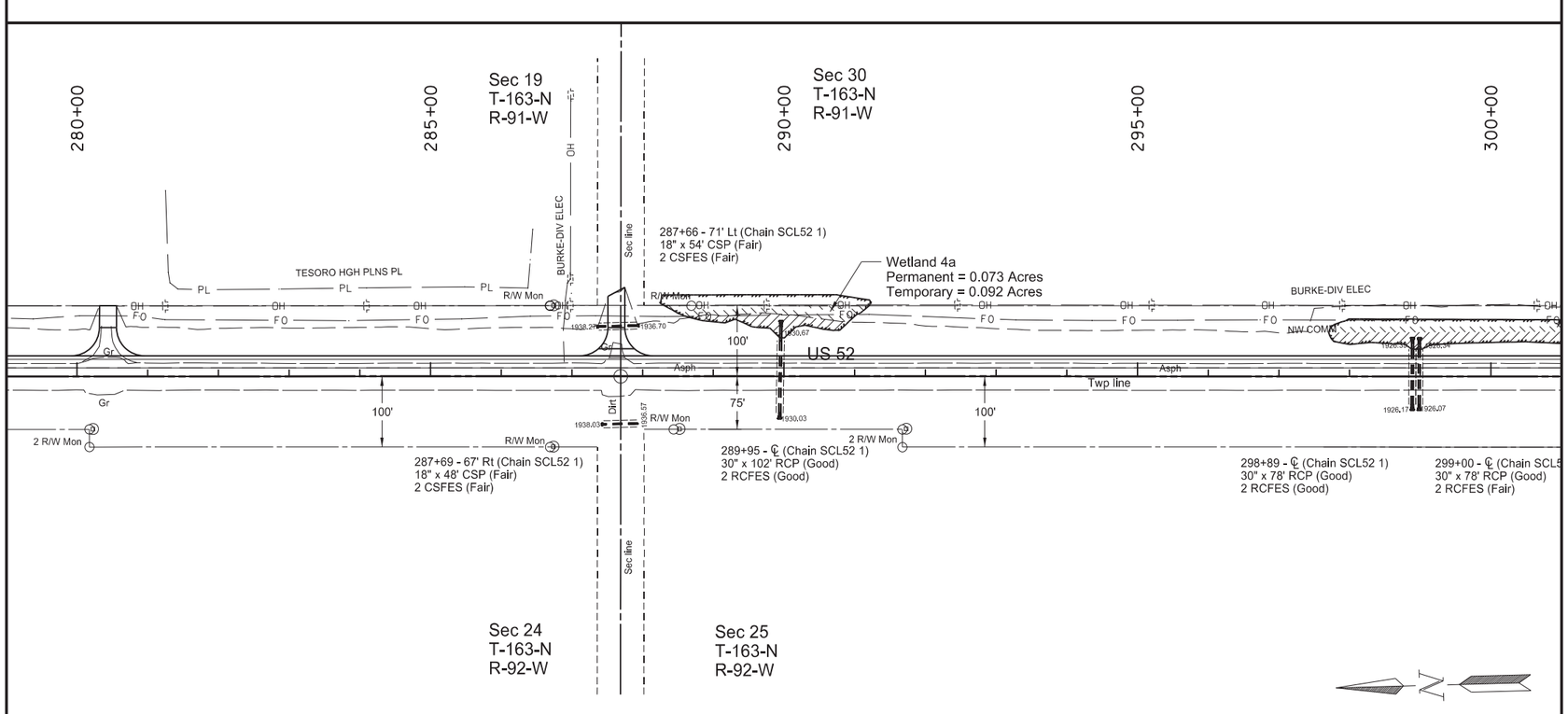
Wetland Impacts

Passing Lane #1

Sta 220+00 to Sta 260+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 5 |



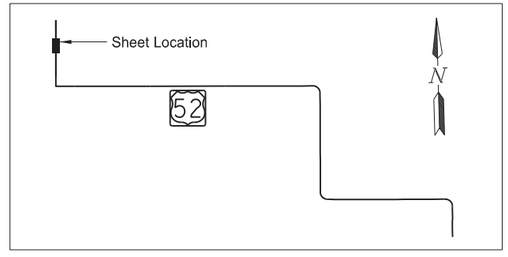




Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



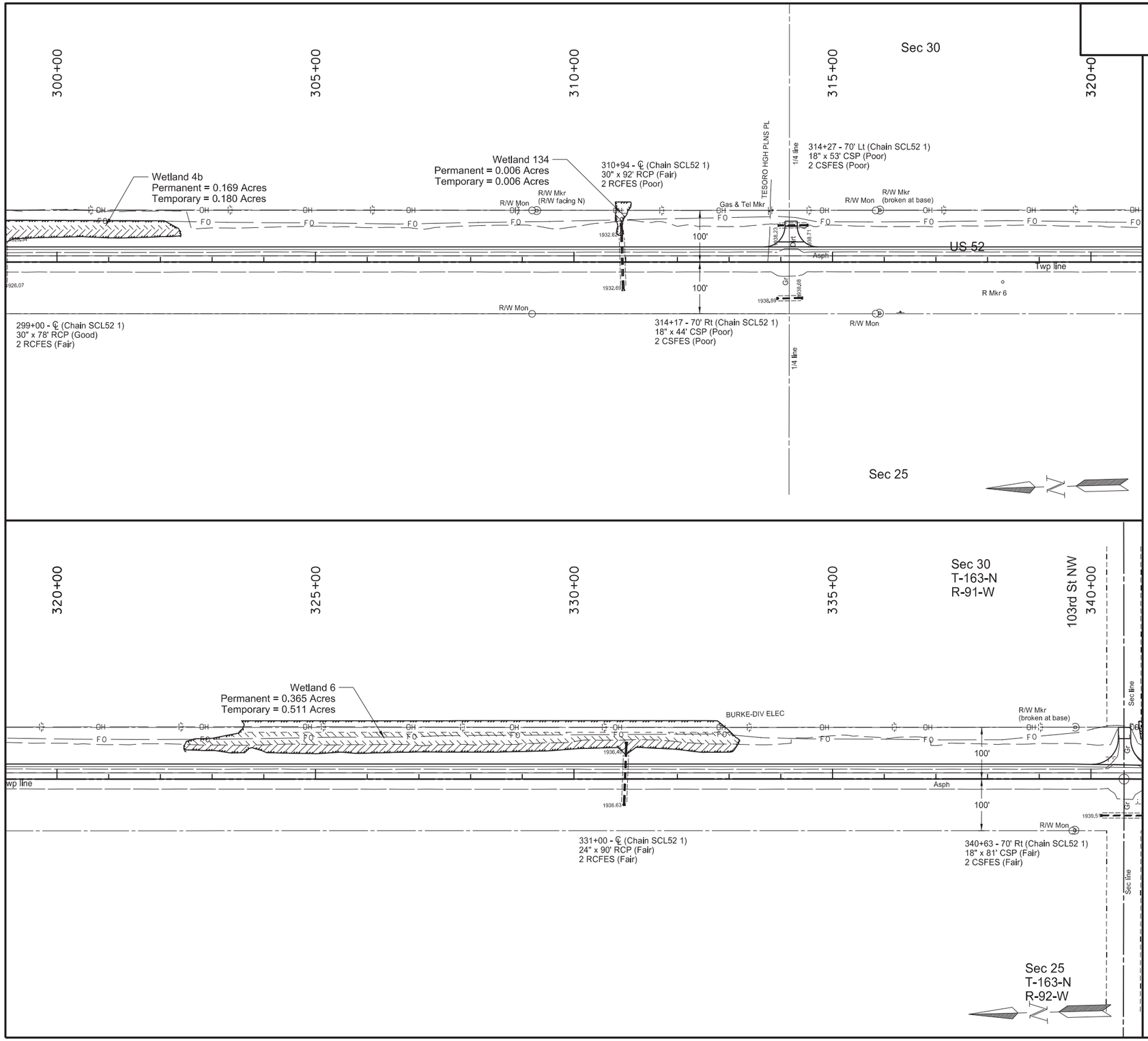

REGISTERED PROFESSIONAL ENGINEER
CAVEL
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #1

Sta 260+00 to Sta 300+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 6 |

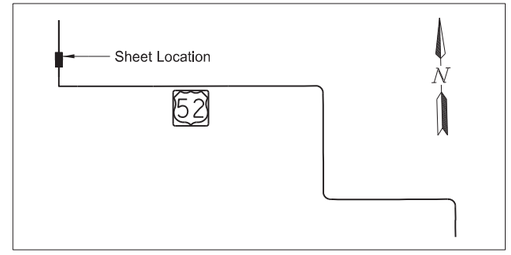



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



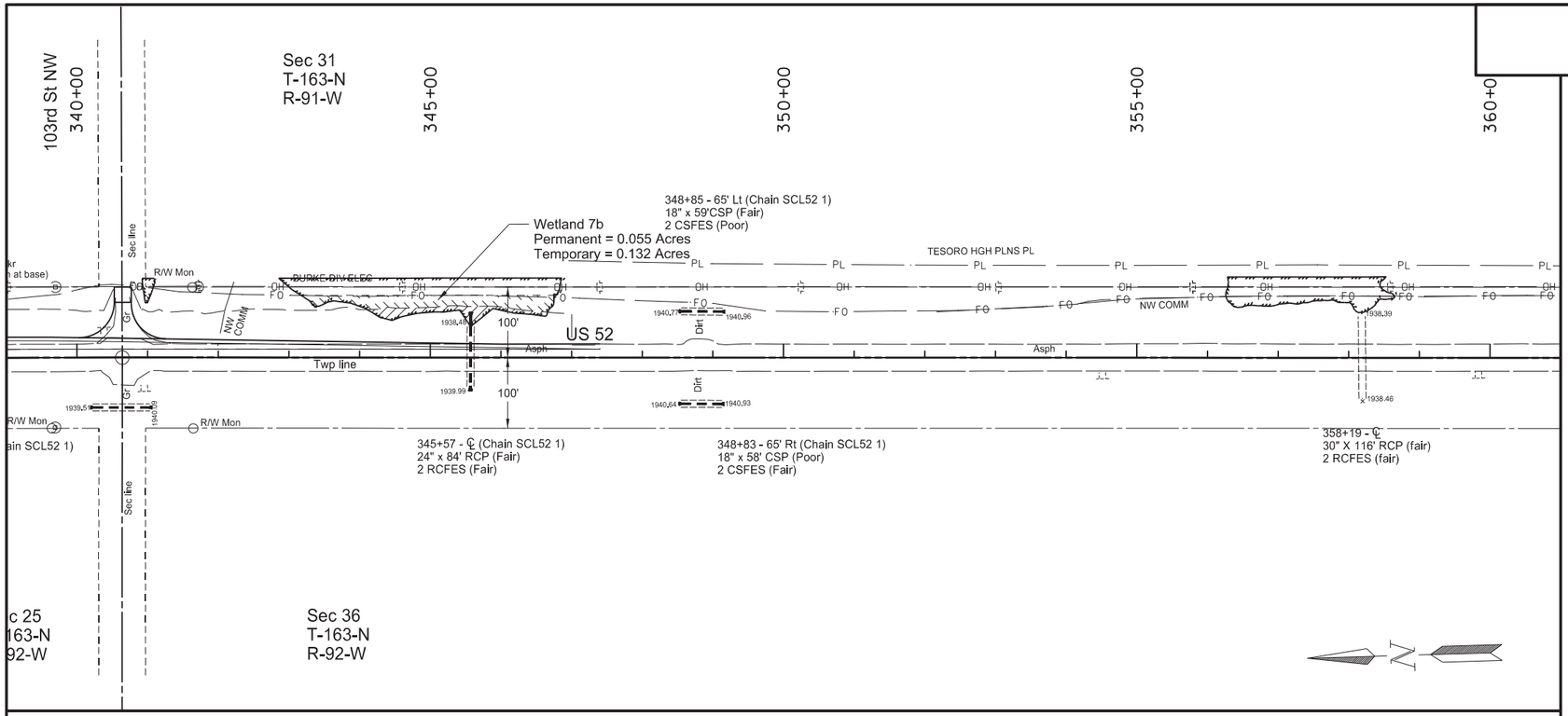

REGISTERED PROFESSIONAL ENGINEER
CAVELL PATCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #1

Sta 300+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 7 |

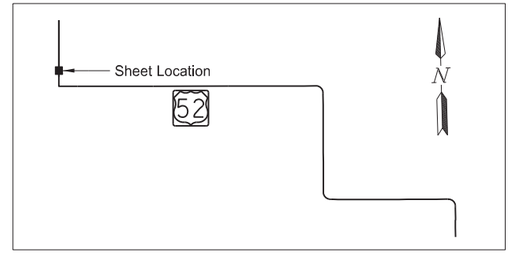



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



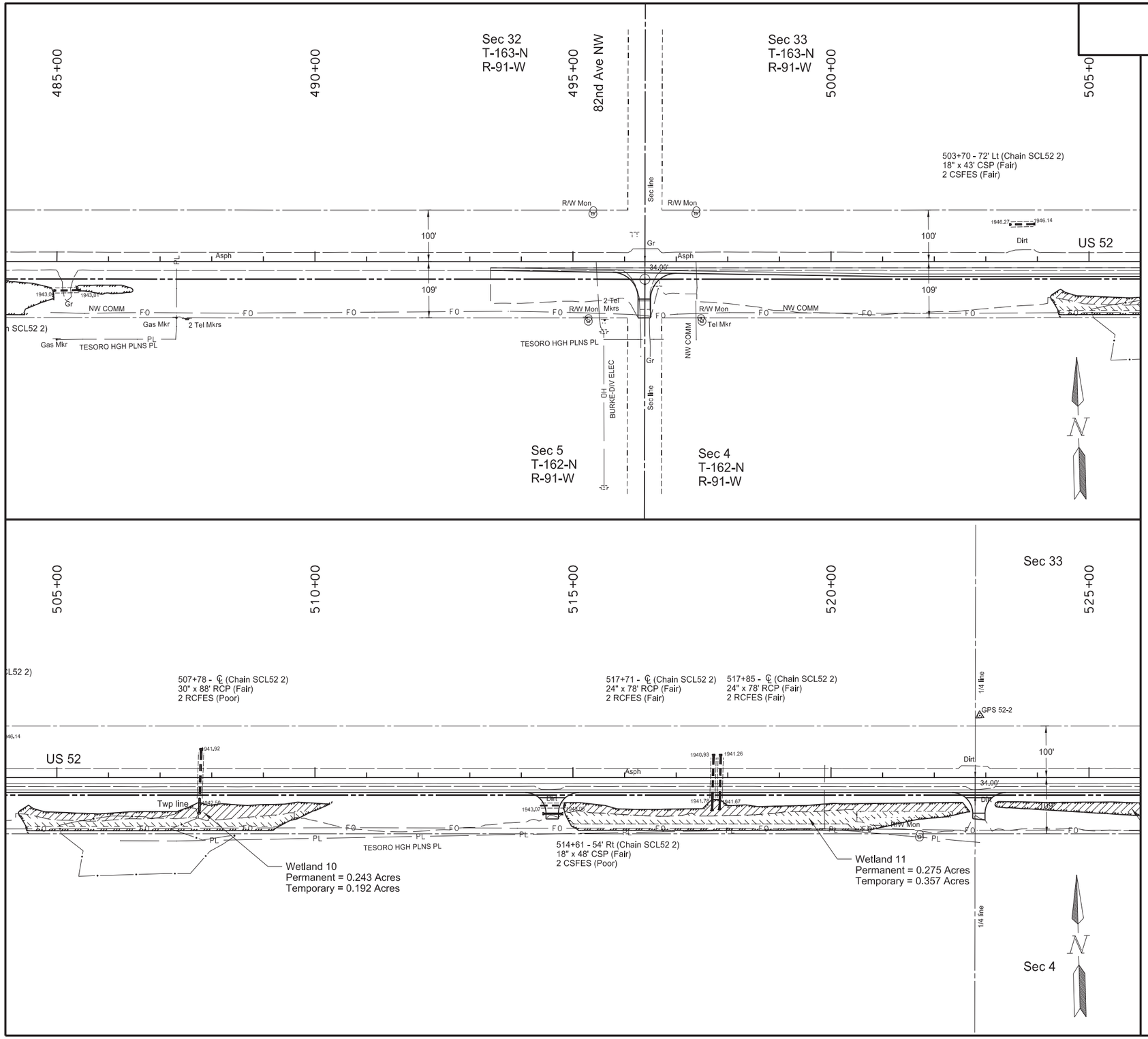

REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #1

Sta 340+00 to Sta 360+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 8 |

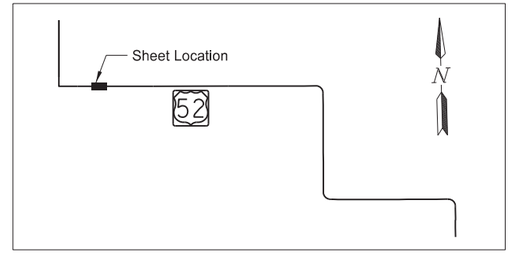



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact




REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
DATE
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NORTH DAKOTA

Wetland Impacts

Passing Lane #2

Sta 485+00 to Sta 525+00

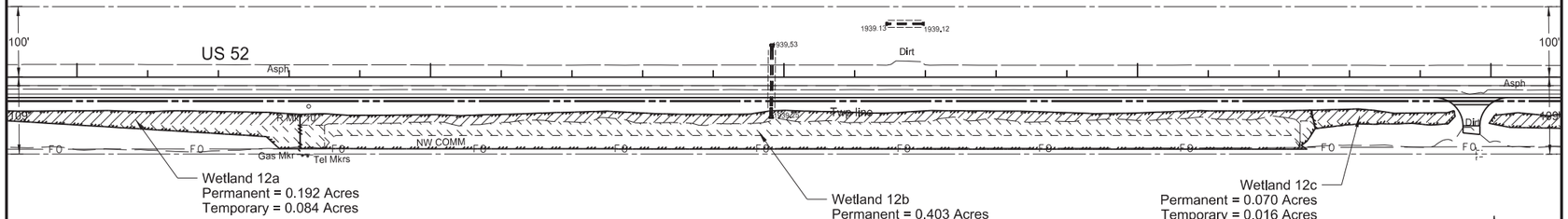
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 9 |

c 33

525+00 530+00 535+00 540+00 545+0

534+83 - ℄ (Chain SCL52 2)
30" x 82' RCP (Fair)
2 RCFES (Fair)

536+72 - 75' Lt (Chain SCL52 2)
18" x 48' CSP (Poor)
2 CSFES (Poor)




Wetland 12a
Permanent = 0.192 Acres
Temporary = 0.084 Acres

Wetland 12b
Permanent = 0.403 Acres
Temporary = 0.679 Acres

Wetland 12c
Permanent = 0.070 Acres
Temporary = 0.016 Acres

c 4

545+00 550+00 555+00 560+00 565+00

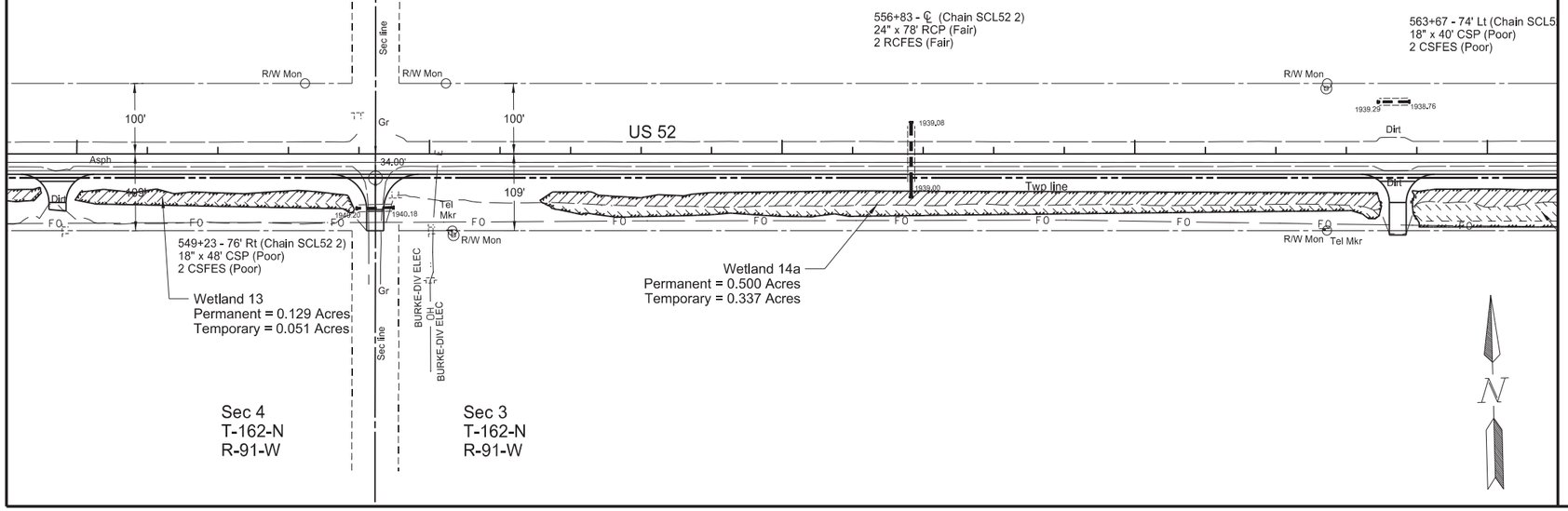
Sec 33
T-163-N
R-91-W

81st Ave NW

Sec 34
T-163-N
R-91-W

556+83 - ℄ (Chain SCL52 2)
24" x 78' RCP (Fair)
2 RCFES (Fair)

563+67 - 74' Lt (Chain SCL5
18" x 40' CSP (Poor)
2 CSFES (Poor)




Wetland 13
Permanent = 0.129 Acres
Temporary = 0.051 Acres

Wetland 14a
Permanent = 0.500 Acres
Temporary = 0.337 Acres

Sec 4
T-162-N
R-91-W

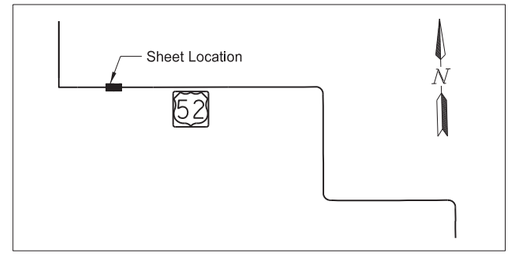
Sec 3
T-162-N
R-91-W

Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact




REGISTERED PROFESSIONAL ENGINEER
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NORTH DAKOTA

Wetland Impacts

Passing Lane #2

Sta 525+00 to Sta 565+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 10 |

565+00 570+00 575+00 580+00 585+0

Sec 34

63+67 - 74' Lt (Chain SCL52 2)
3" x 40' CSP (Poor)
CSFES (Poor)

566+82 - ℄ (Chain SCL52 2)
24" x 90' RCP (Fair)
2 RCFES (Fair)

1/4 line

938.76
937.90
938.79
100'
109'
Gr
Asph
34.00'
Dirt
US 52
R Mkr 11
Tel Mkr
1945.16
1945.61
FO Ped
NW COMM

Wetland 14b
Permanent = 0.259 Acres
Temporary = 0.269 Acres

575+80 - 74' Rt (Chain SCL52 2)
18" x 44' CSP (Fair)
2 CSFES (Fair)

1/4 line

Sec 3

N

585+00 590+00 595+00

Sec 34
T-163-N
R-91-W

600+00 80th Ave NW 605+00

Se
T-
R-

587+75 - 76' Lt (Chain SCL52 2)
18" x 50' CSP (Poor)
2 CSFES (Poor)

602+01 - 71' Lt (Chain SCL52 2)
18" x 46' CSP (Poor)
2 CSFES (Poor)

Sec line

R/W Mon
1951.87
1952.35
1955.01
1954.92
Dirt
Asph
100'
109'
34.00'
Twp line
NW COMM
Tel Mkr
OH
Gas Mkr
1955.64
1955.05
STEEL REEF BURKE LLC

Wetland 15b
Permanent = 0.008 Acres

Wetland 15a
Permanent = 0.024 Acres

602+10 - 60' Rt (Chain SCL52 2)
18" x 58' CSP (Fair)
2 CSFES (Fair)

Sec 3
T-162-N
R-91-W

Sec 2
T-162-N
R-91-W

N

Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact

Sheet Location

52

N

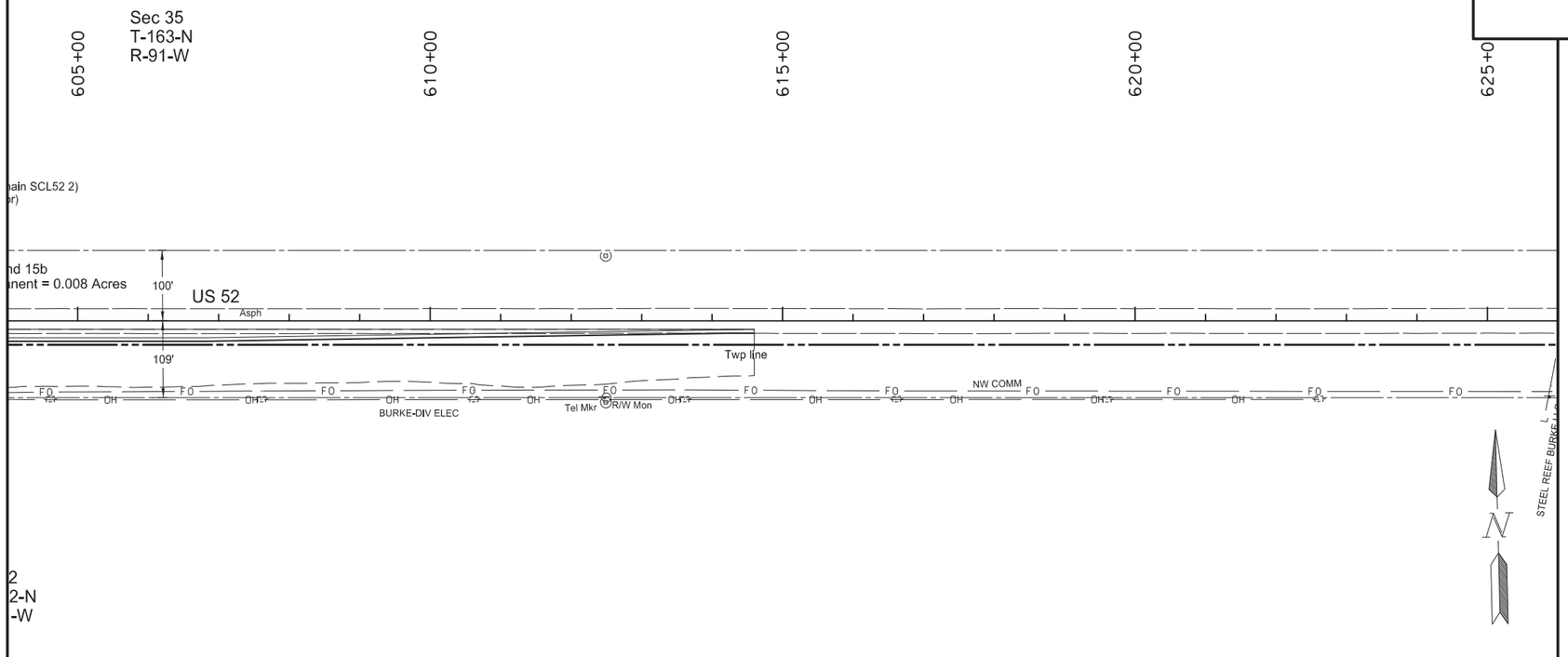
REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #2

Sta 565+00 to Sta 605+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 11 |

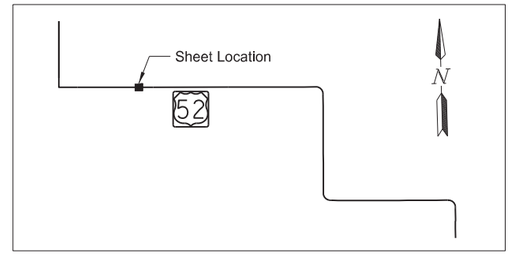



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



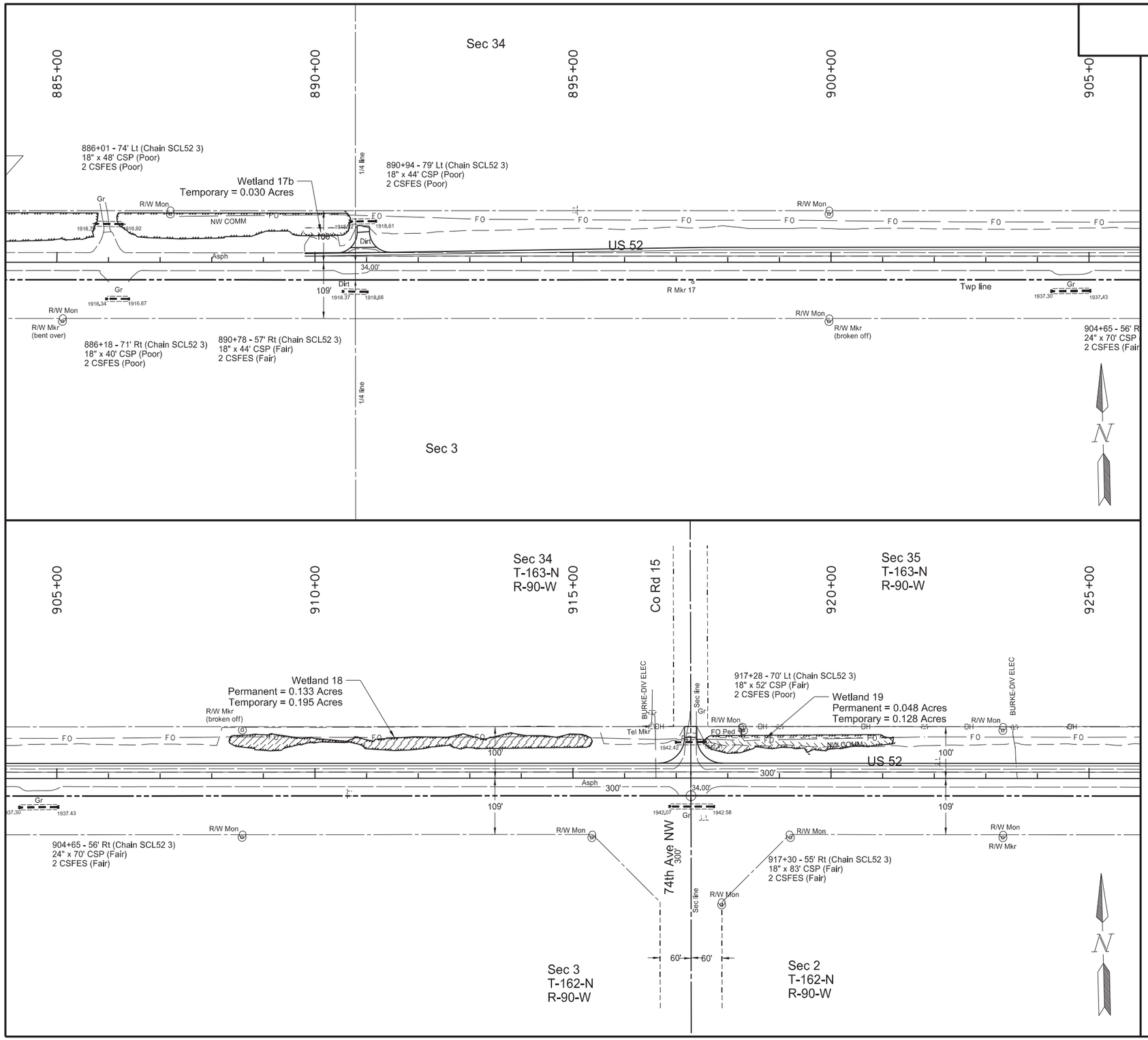

REGISTERED PROFESSIONAL ENGINEER
CAVELL FINCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #2

Sta 605+00 to Sta 625+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 12 |

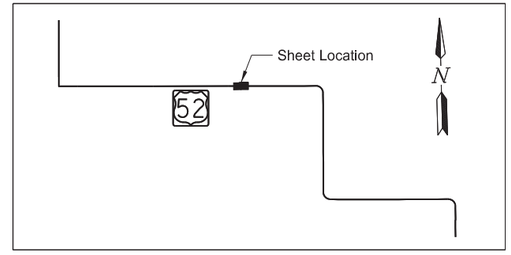



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



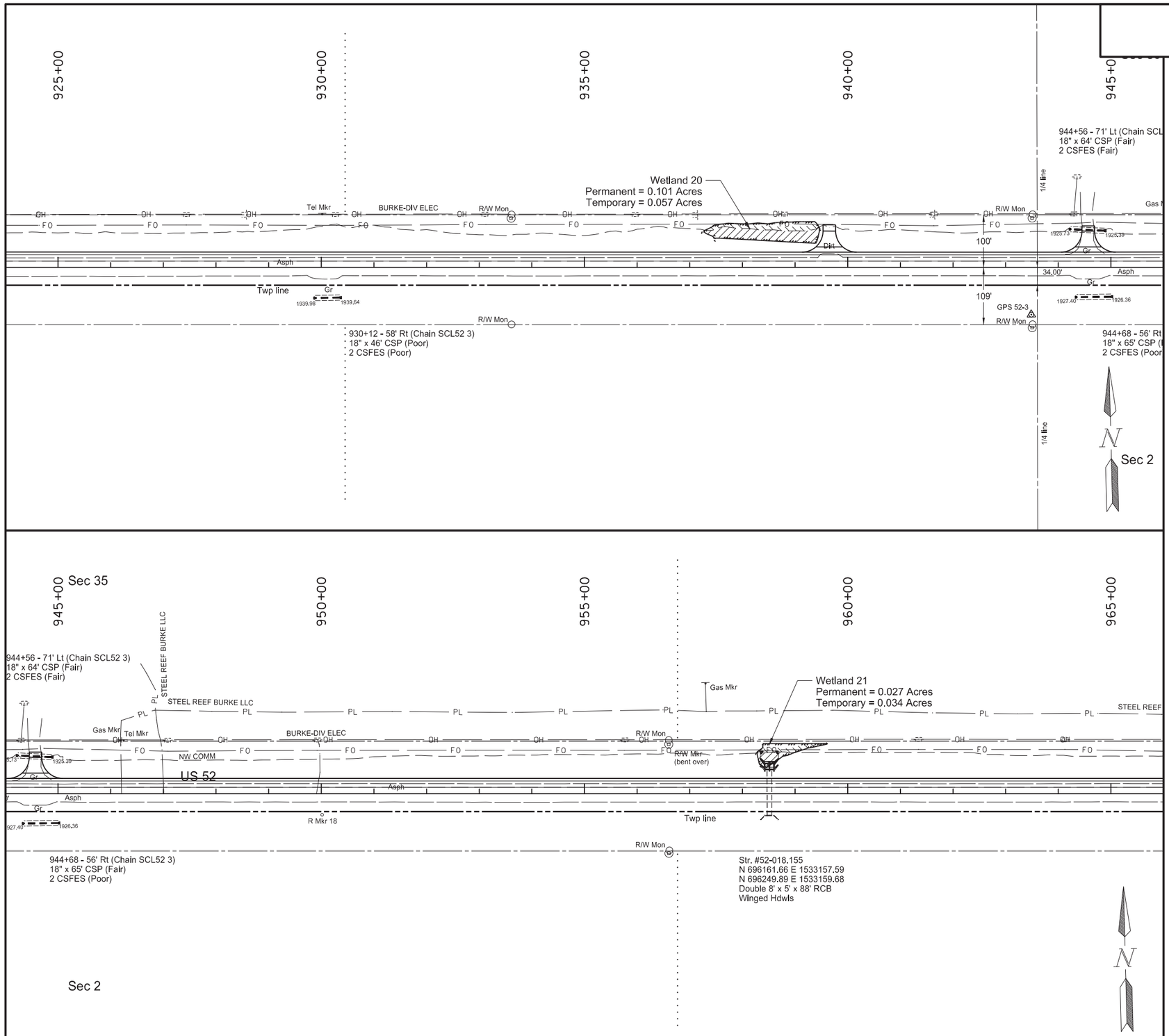

REGISTERED PROFESSIONAL ENGINEER
CAV[illegible]
[illegible]
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #3

Sta 885+00 to Sta 925+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 13 |

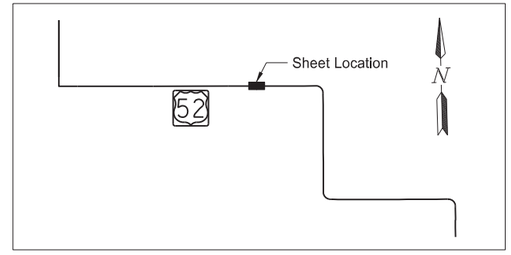



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



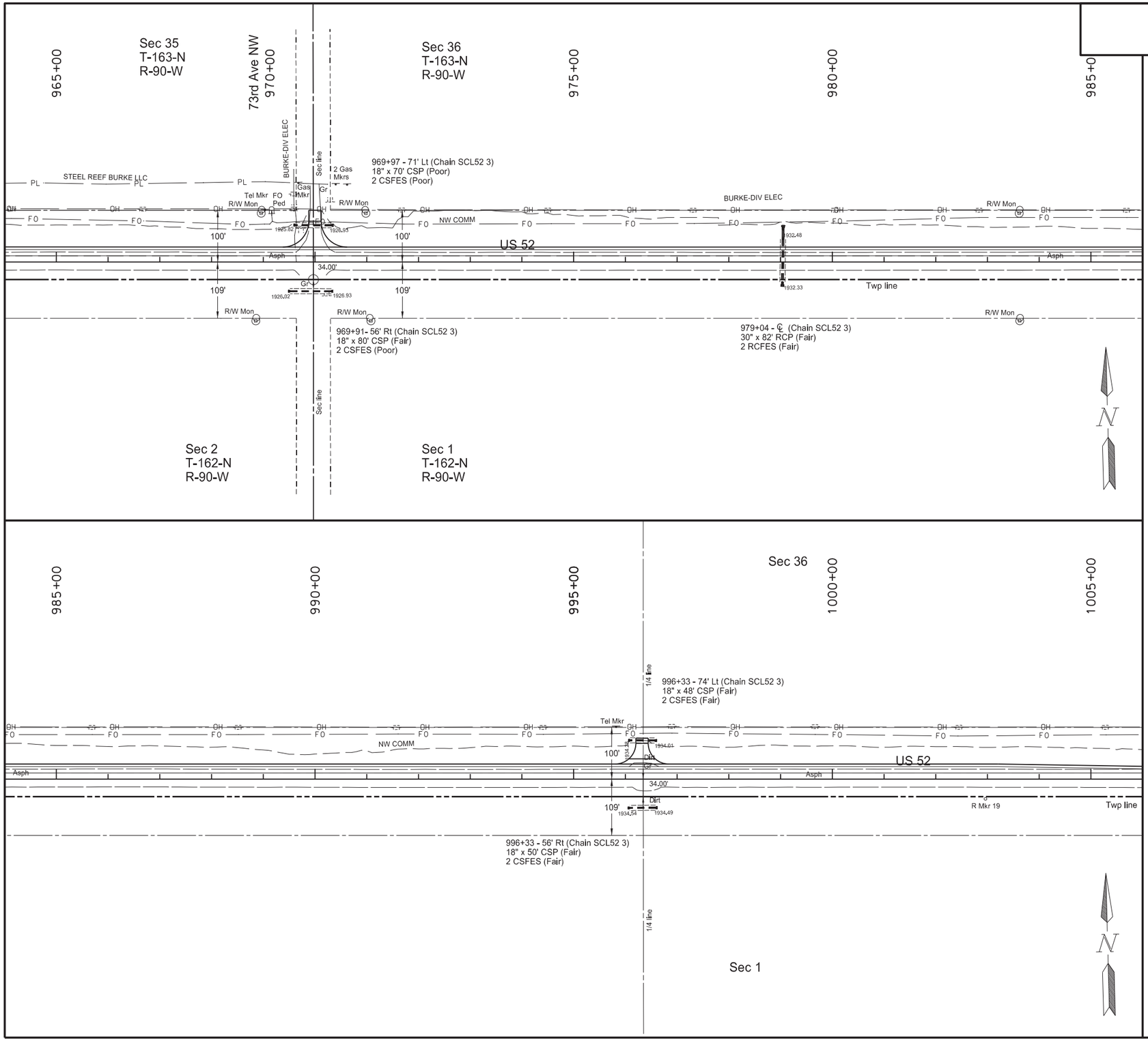

REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #3

Sta 925+00 to Sta 965+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 14 |

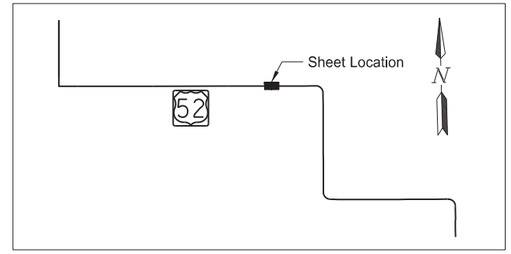



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



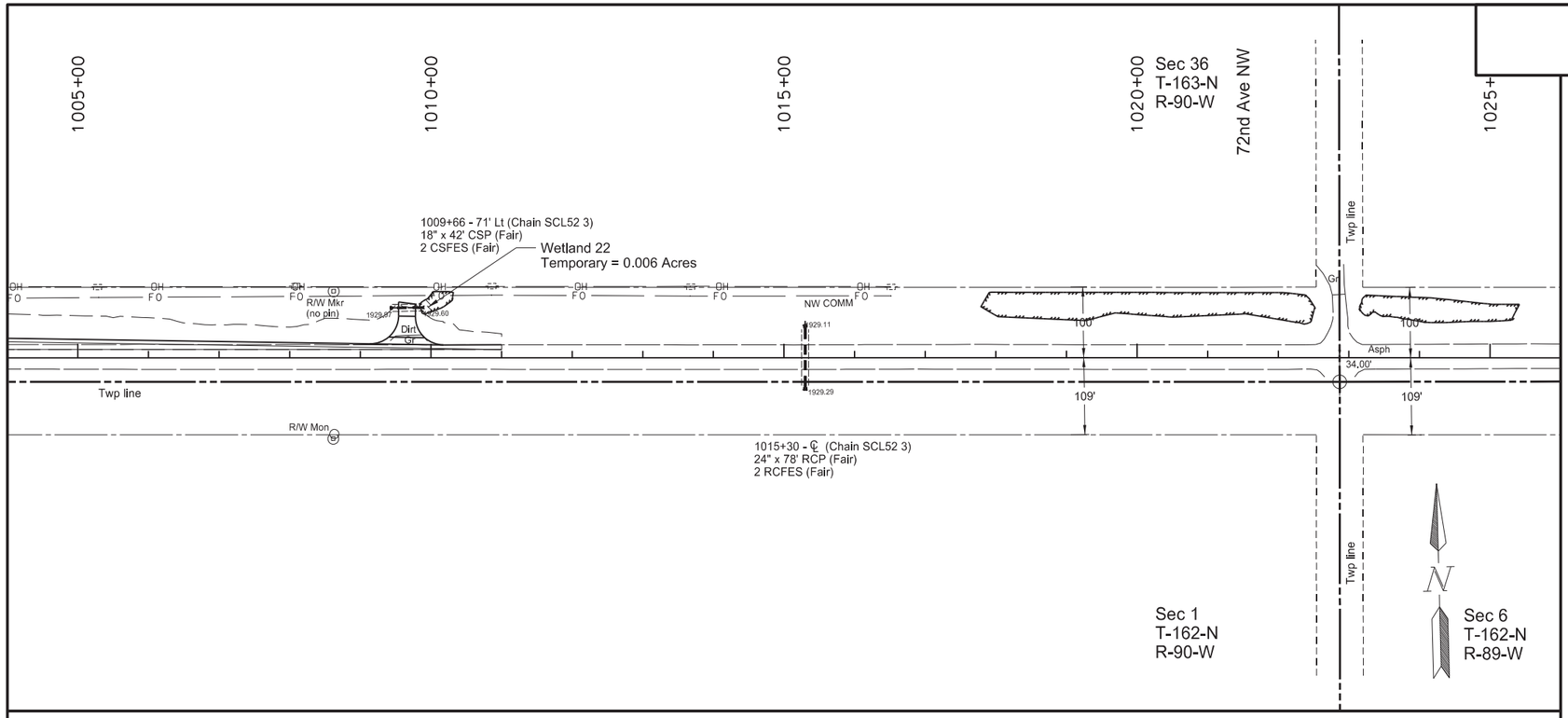

REGISTERED PROFESSIONAL ENGINEER
CAV[illegible]
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #3

Sta 965+00 to Sta 1005+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 15 |

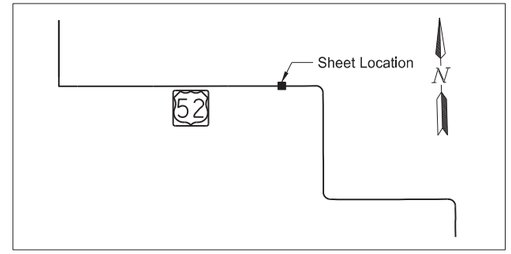



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



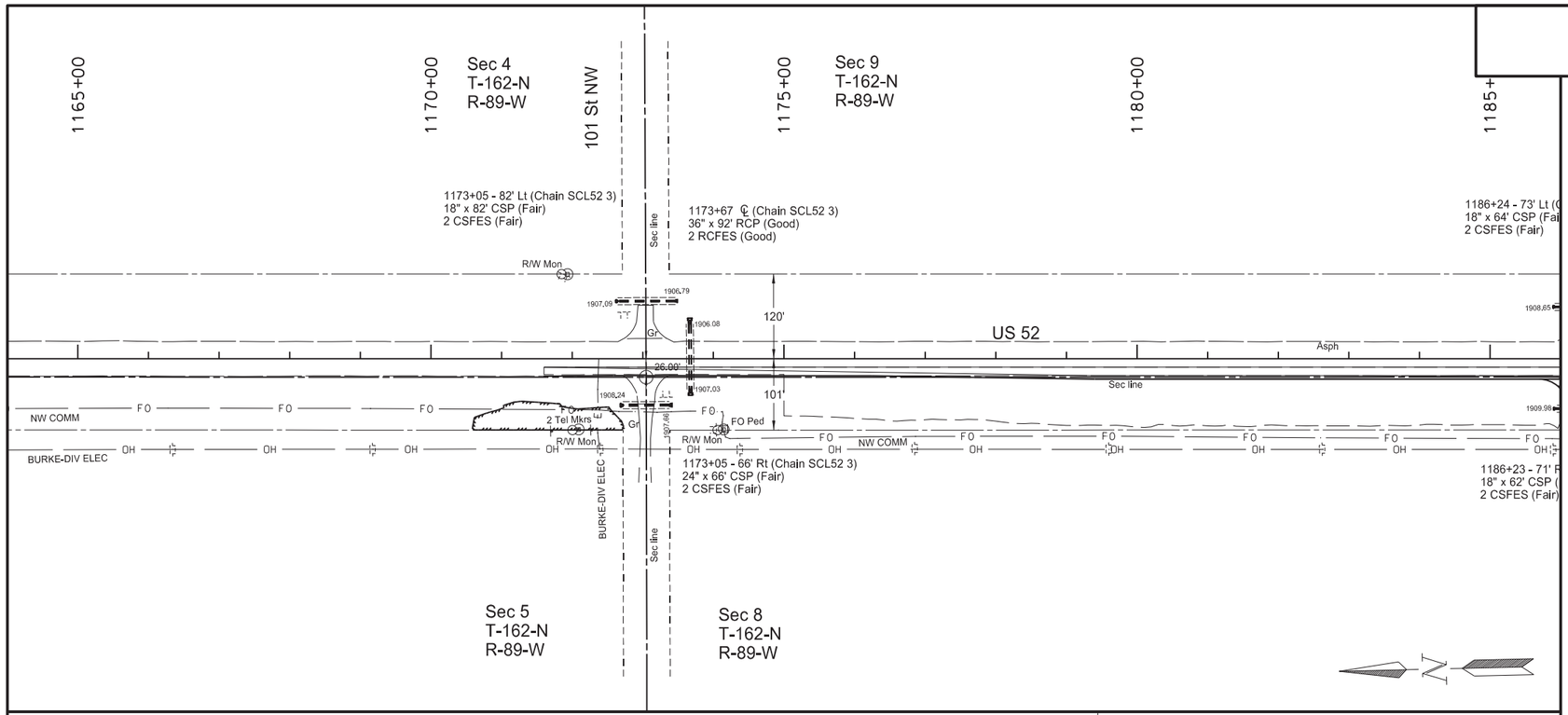

REGISTERED PROFESSIONAL ENGINEER
CAVELL FINCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #3

Sta 1005+00 to Sta 1025+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 16 |

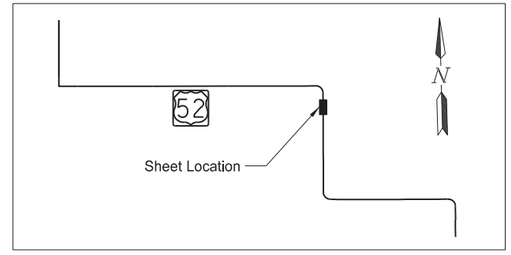



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



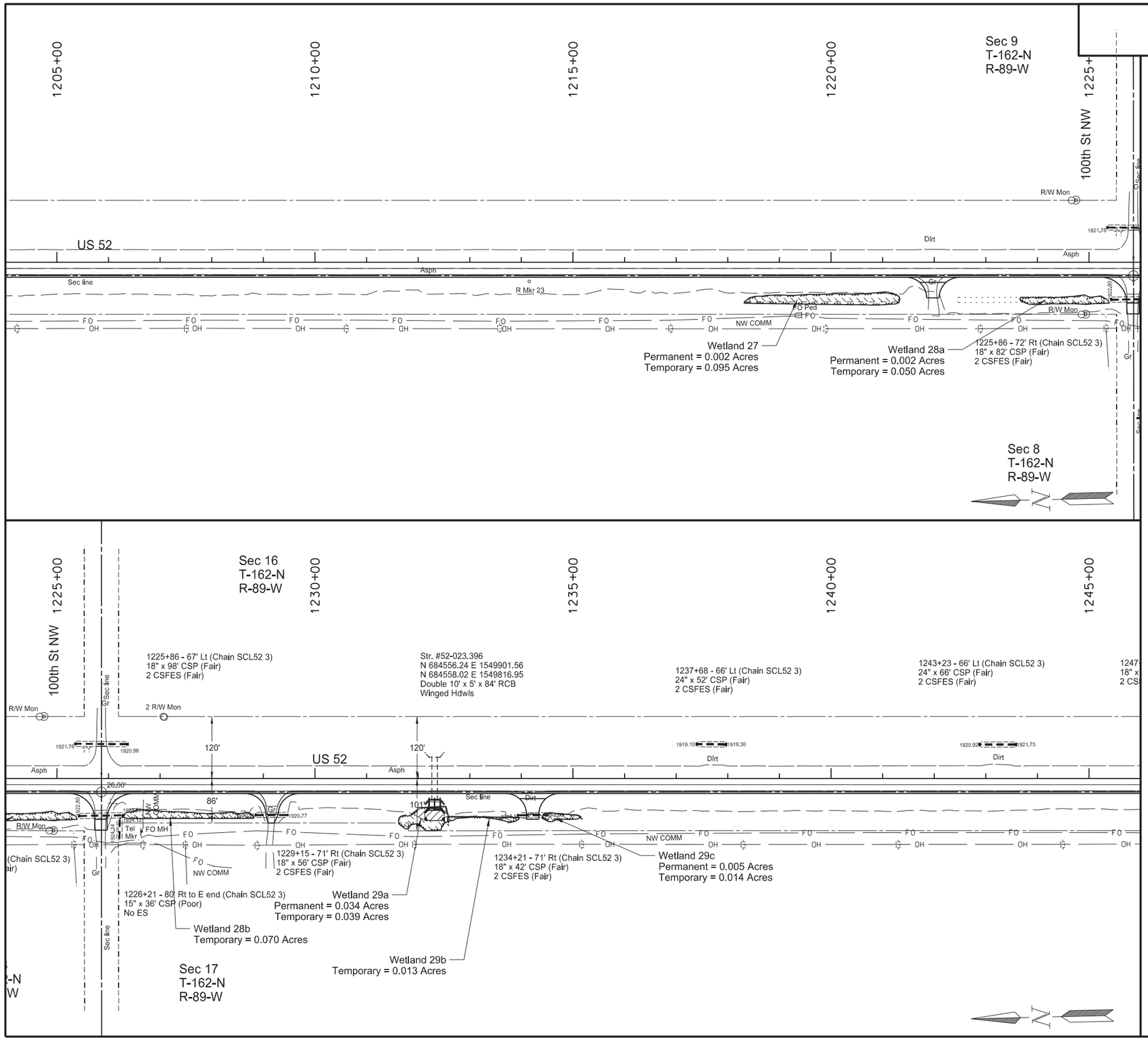

REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
DATE
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NORTH DAKOTA

Wetland Impacts

Passing Lane #4

Sta 1165+00 to Sta 1205+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 17 |

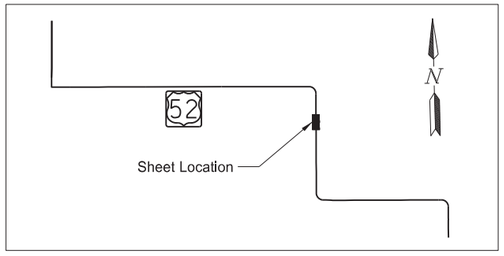



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



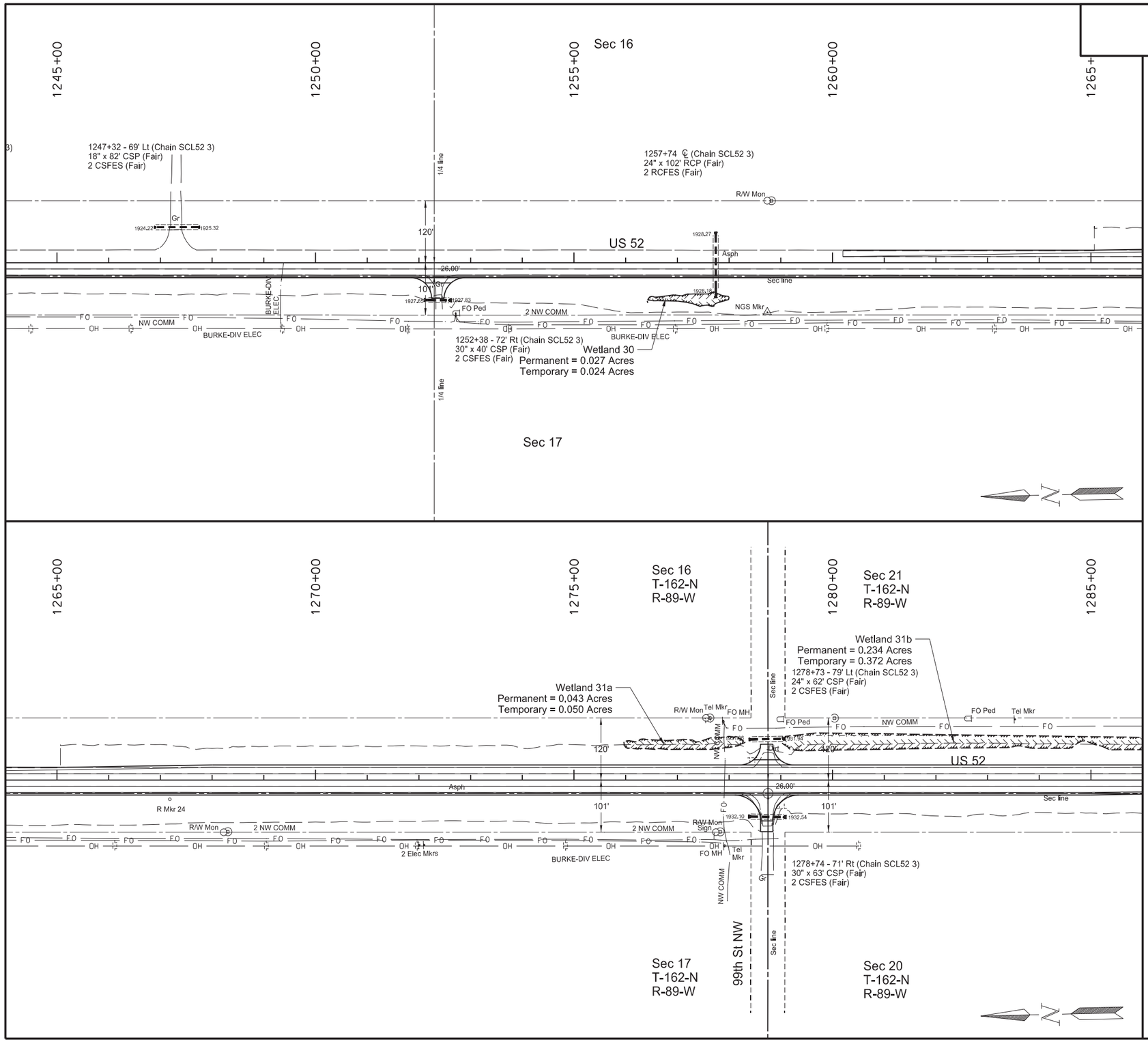

REGISTERED PROFESSIONAL ENGINEER
CAV[illegible]
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #4

Sta 1205+00 to Sta 1245+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 18 |



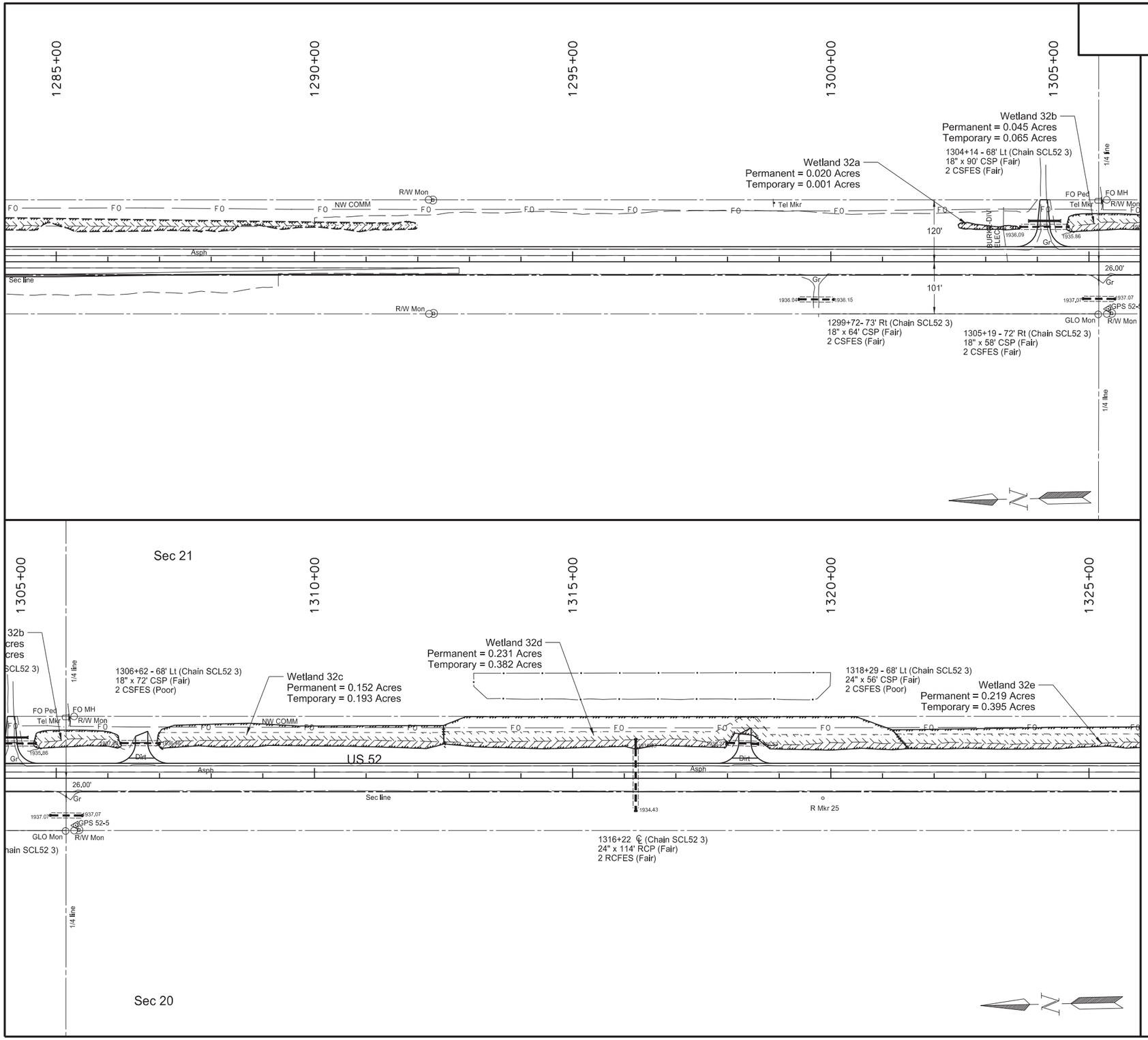

REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
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NORTH DAKOTA

Wetland Impacts

Passing Lane #4 & #5

Sta 1245+00 to Sta 1285+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 19 |

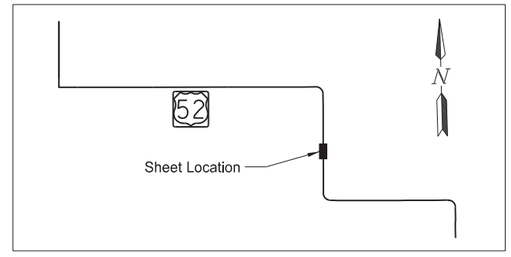



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



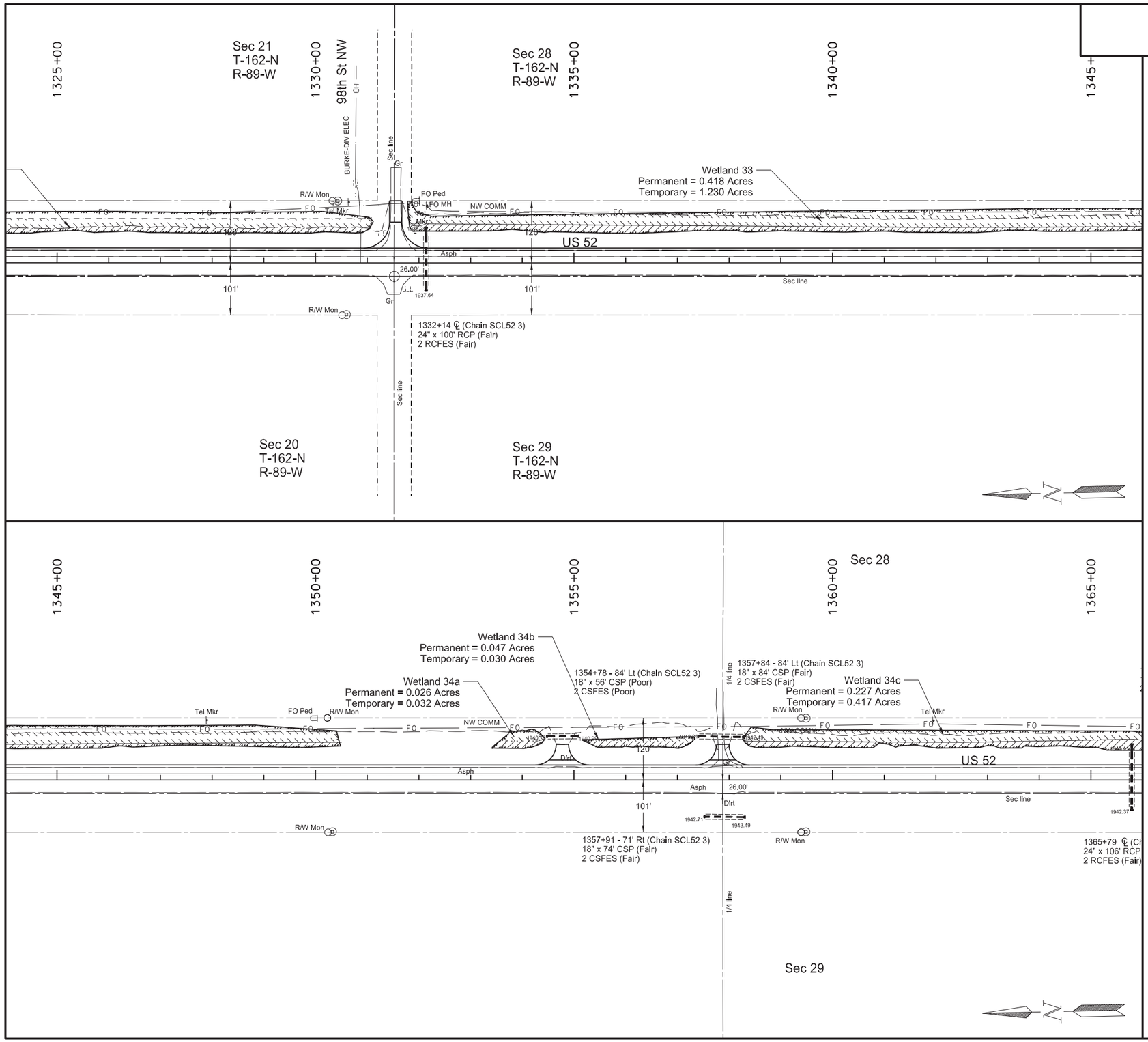

REGISTERED PROFESSIONAL ENGINEER
CAVELL PATCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #4 & #5

Sta 1285+00 to Sta 1325+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 20 |

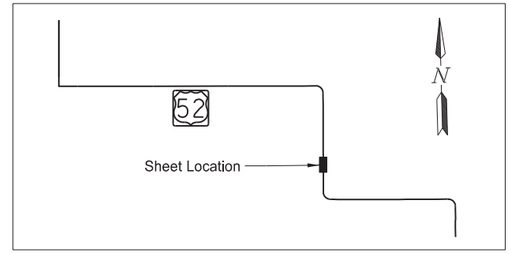



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



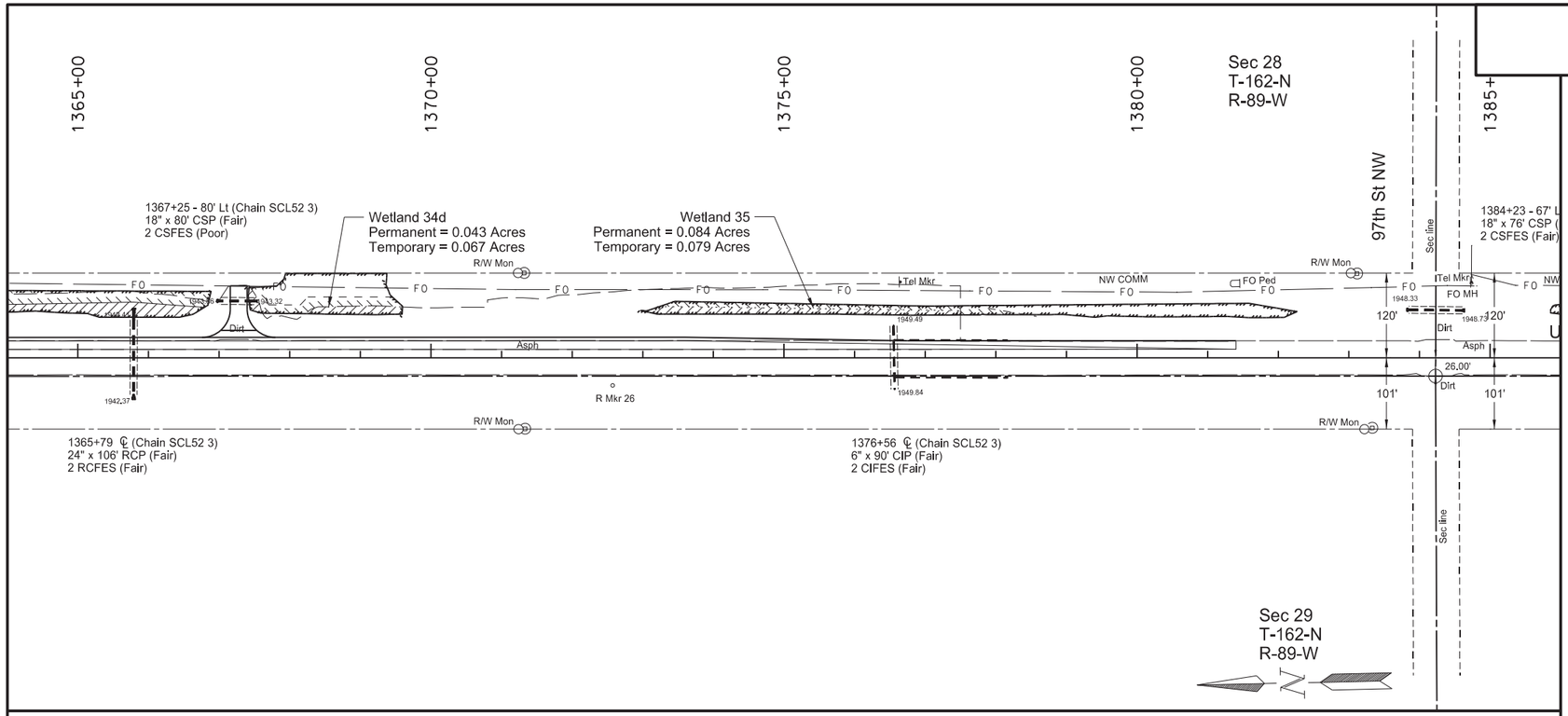

REGISTERED PROFESSIONAL ENGINEER
CAVELL PATCH
PE-10611
DATE
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NORTH DAKOTA

Wetland Impacts

Passing Lane #5

Sta 1325+00 to Sta 1365+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 21 |

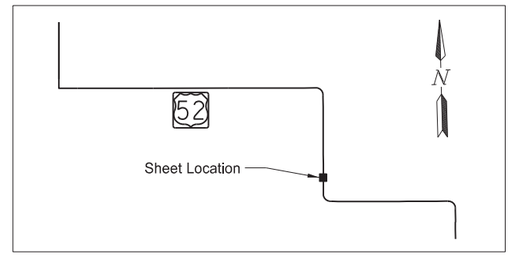



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



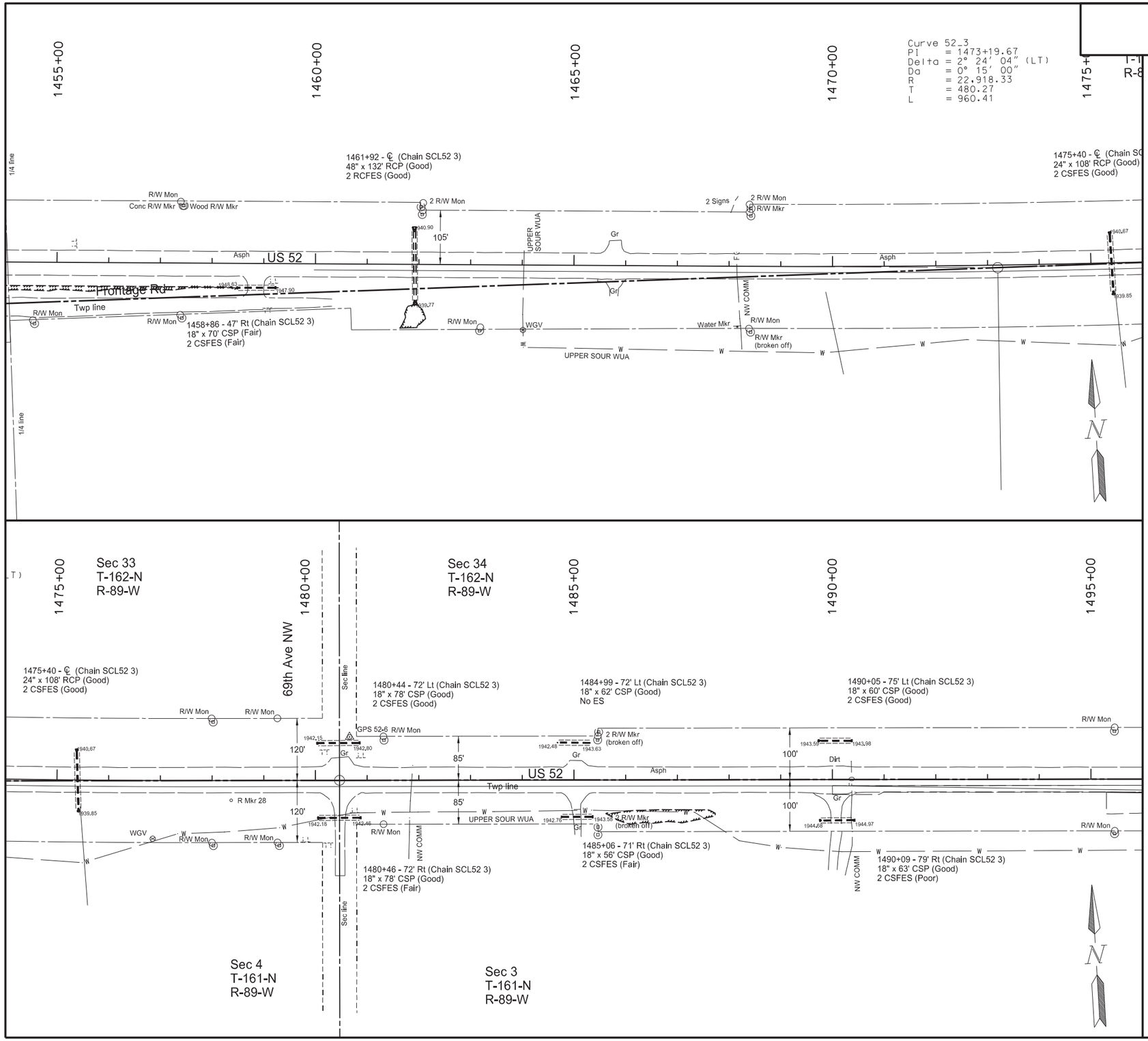

REGISTERED PROFESSIONAL ENGINEER
CAVELL PATCH
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DATE
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NORTH DAKOTA

Wetland Impacts

Passing Lane #5

Sta 1365+00 to Sta 1385+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 22 |

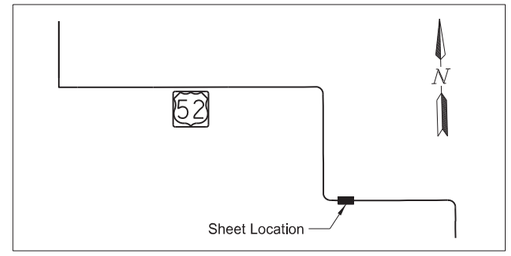



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



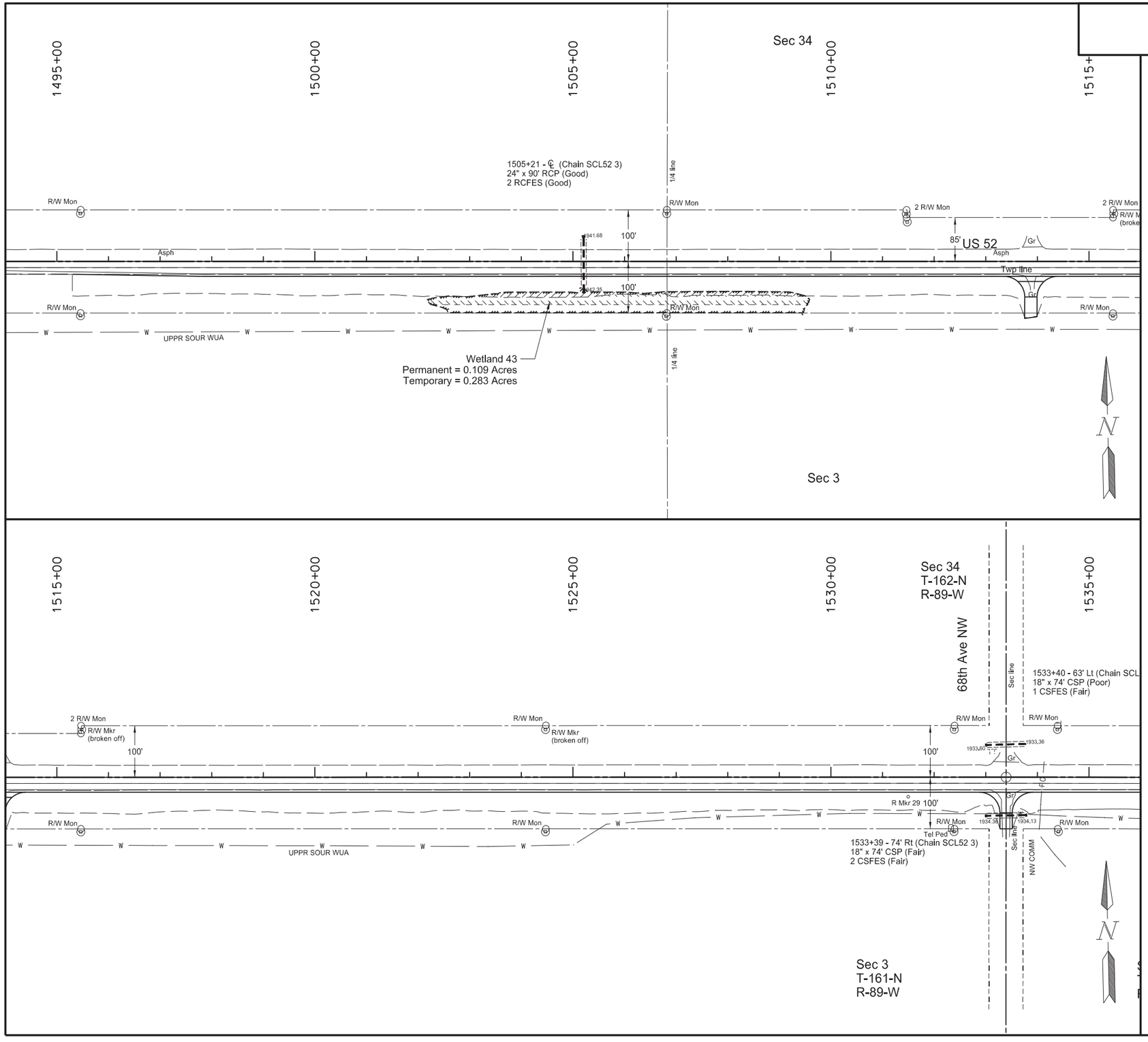

REGISTERED PROFESSIONAL ENGINEER
CAV[illegible]
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #6

Sta 1455+00 to Sta 1495+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 23 |

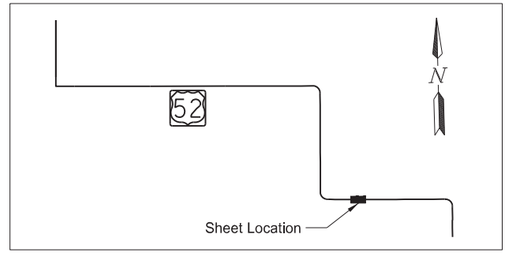



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



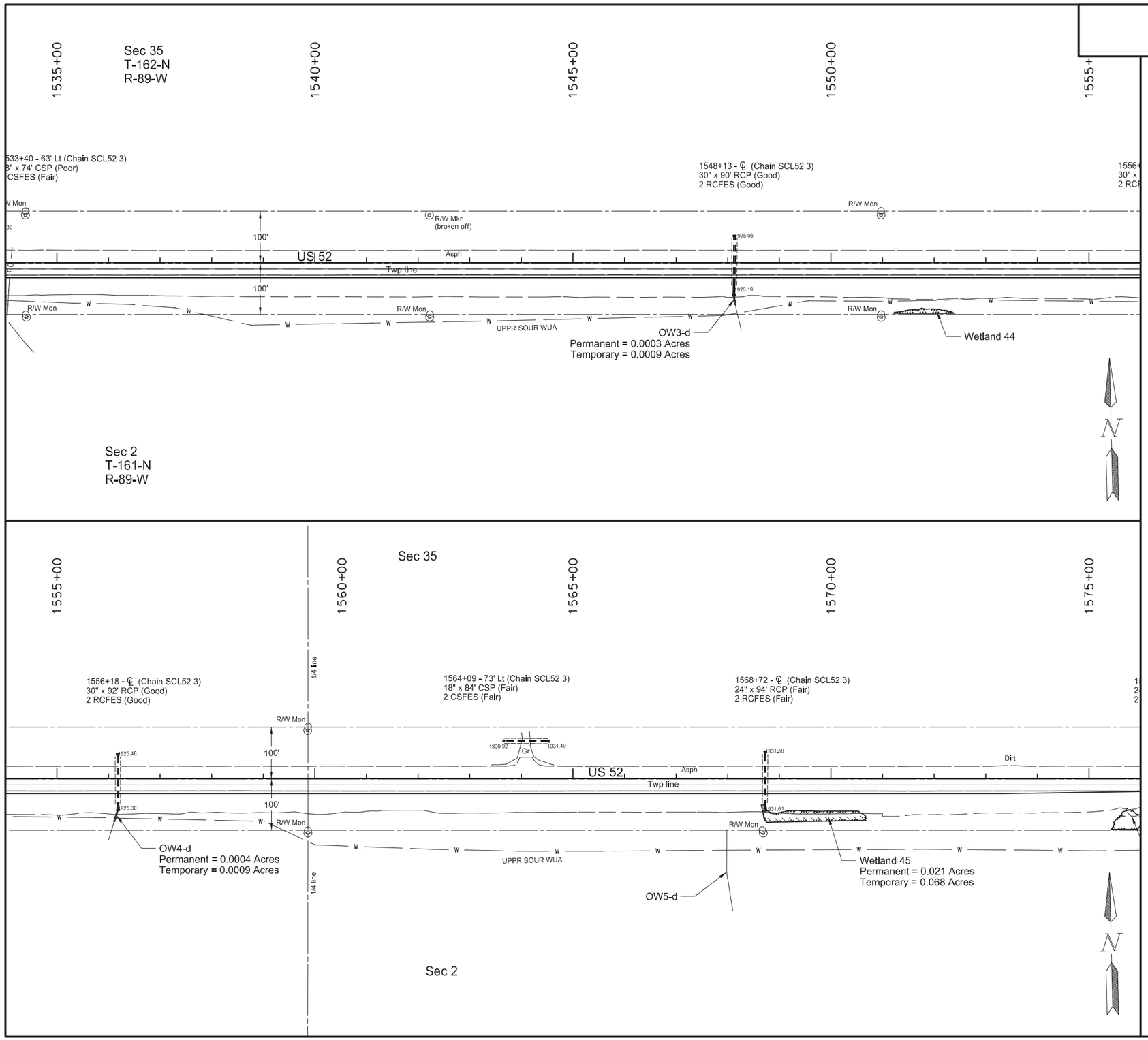

REGISTERED PROFESSIONAL ENGINEER
CAVALIER PATCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #6

Sta 1495+00 to Sta 1535+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 24 |

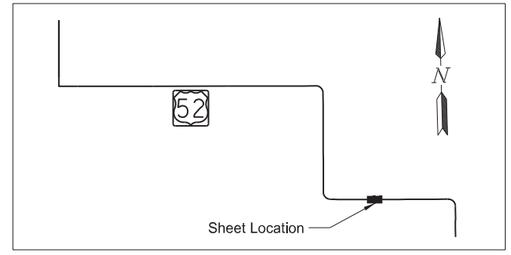



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



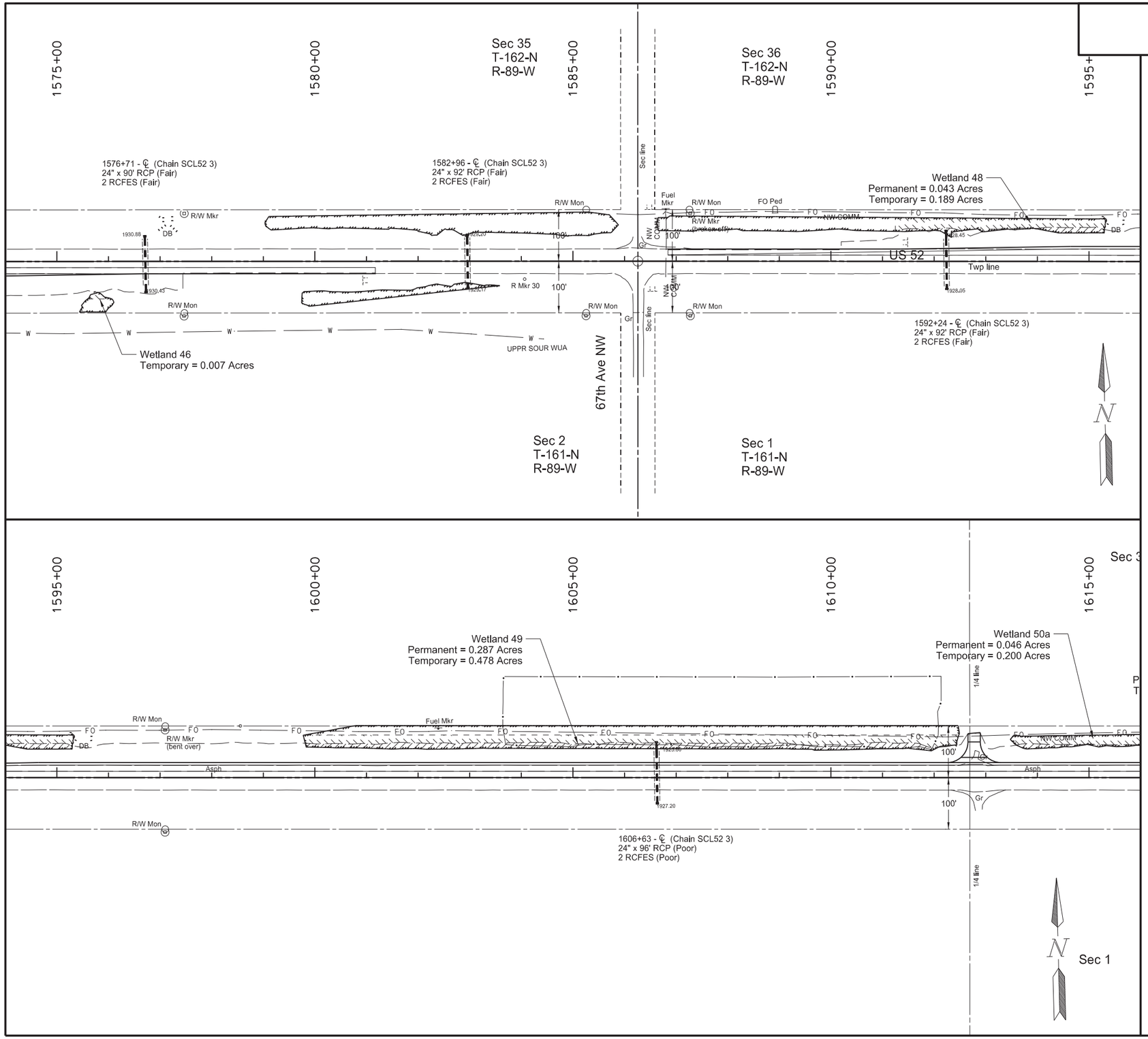

REGISTERED PROFESSIONAL ENGINEER
CAVID [illegible]
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #6

Sta 1535+00 to Sta 1575+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 25 |

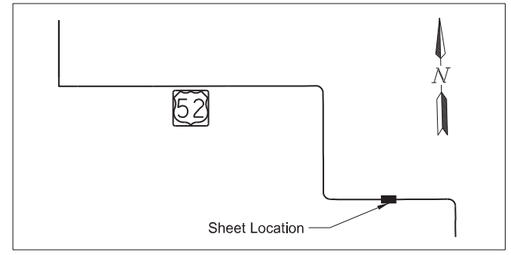



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



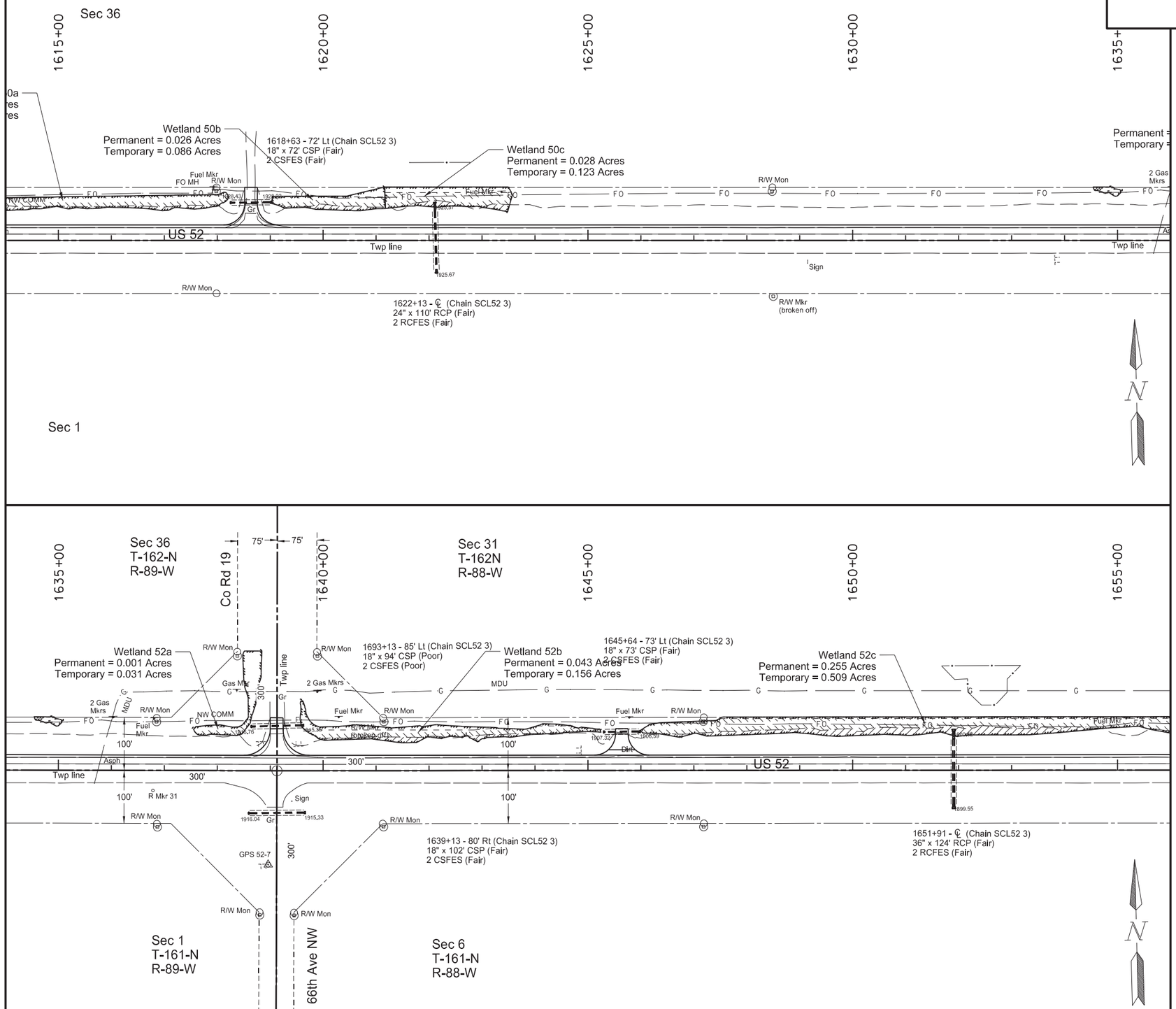

RECISTERED PROFESSIONAL ENGINEER
CAVELL MANN
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #6 & #7

Sta 1575+00 to Sta 1615+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 26 |

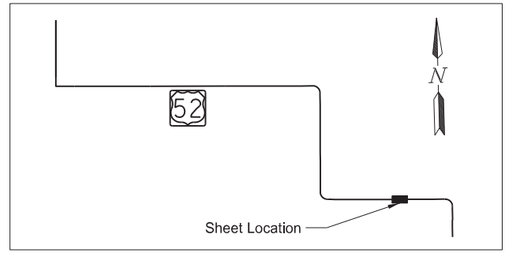



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



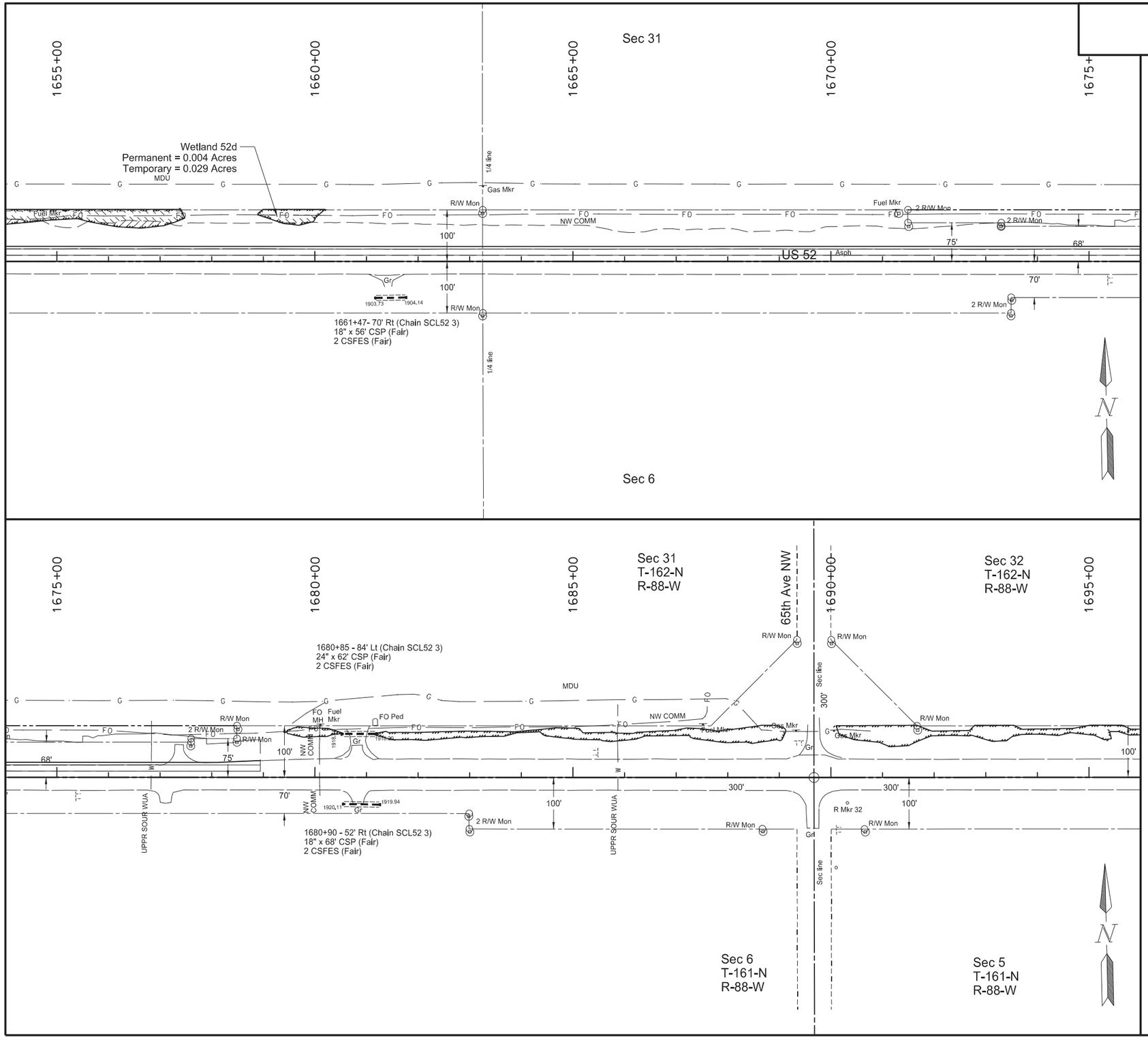

REGISTERED PROFESSIONAL ENGINEER
CAVALIER
PE-10611
DATE
9/13/2023
NORTH DAKOTA

Wetland Impacts

Passing Lane #7

Sta 1615+00 to Sta 1655+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 27 |

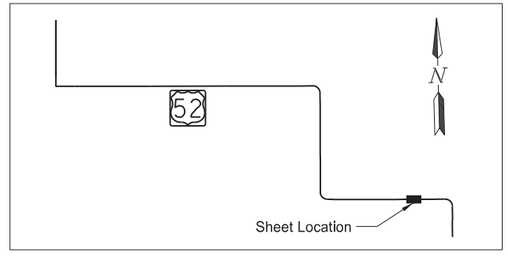



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



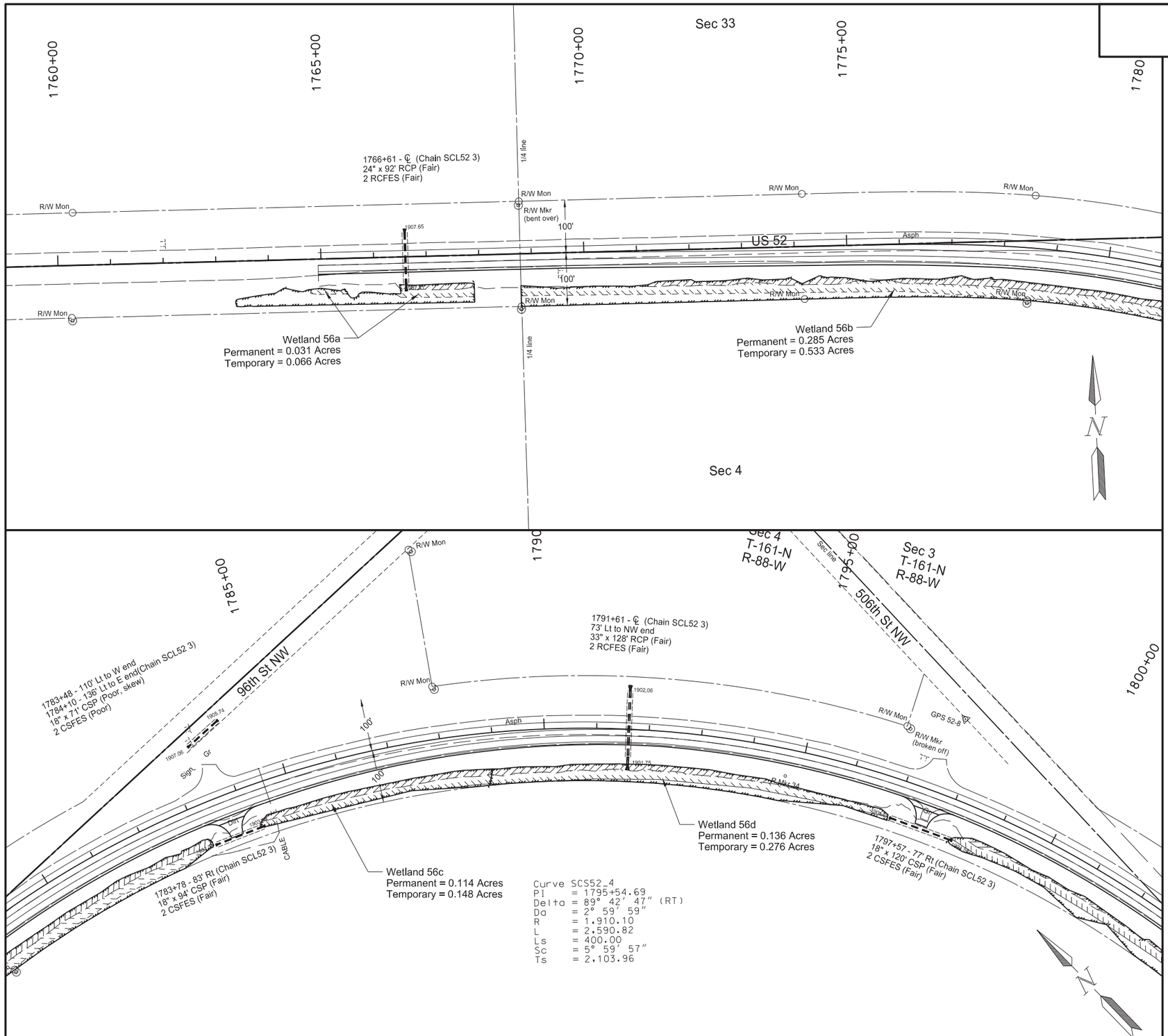

REGISTERED PROFESSIONAL ENGINEER
CAVIN D PATCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

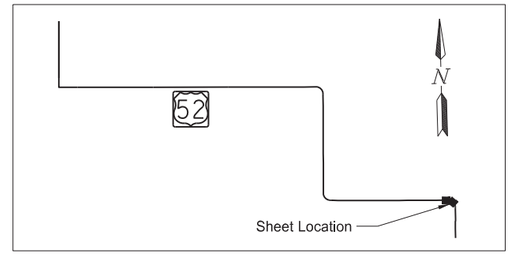
Wetland Impacts

Passing Lane #7

Sta 1655+00 to Sta 1695+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 28 |



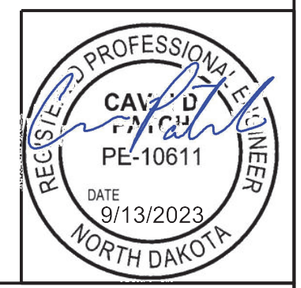




Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact

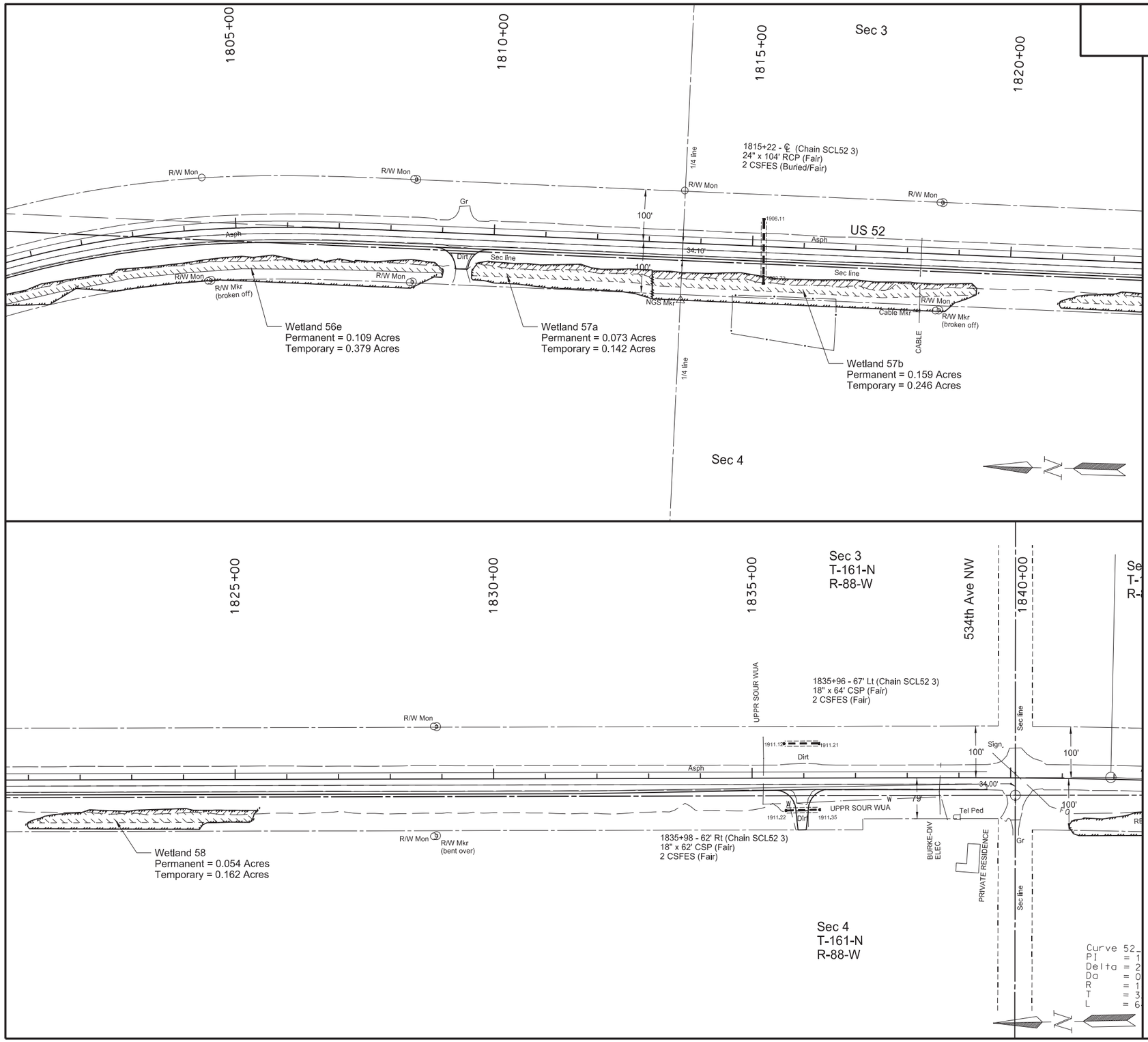



Wetland Impacts

Passing Lane #8

Sta 1760+00 to 1800+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 75 | 29 |

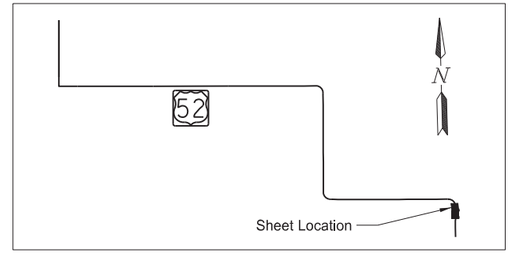



Temporary Wetland Impact

Permanent Wetland Impact

Temporary Other Water Impact

Permanent Other Water Impact



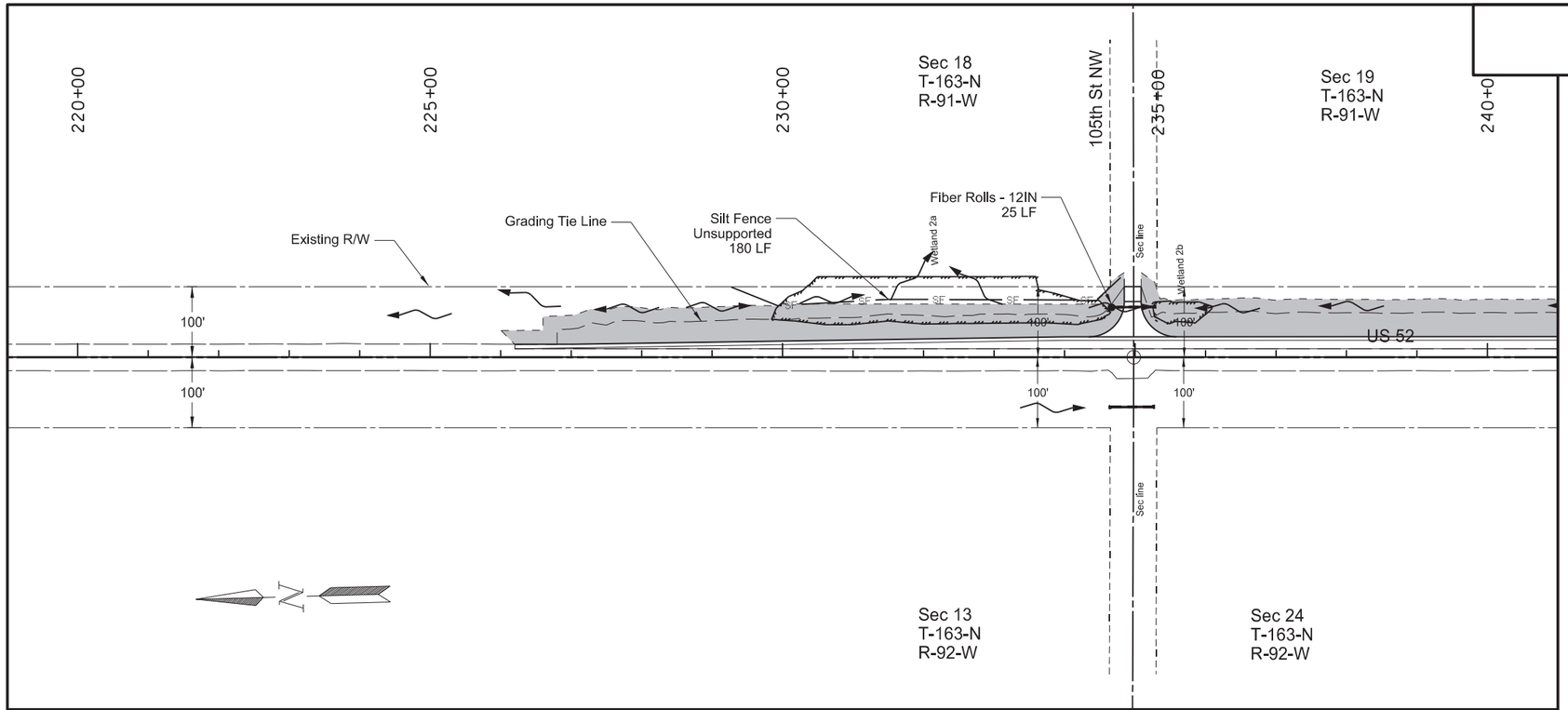

REGISTERED PROFESSIONAL ENGINEER
CAVID PATCH
PE-10611
DATE
9/13/2023
NORTH DAKOTA

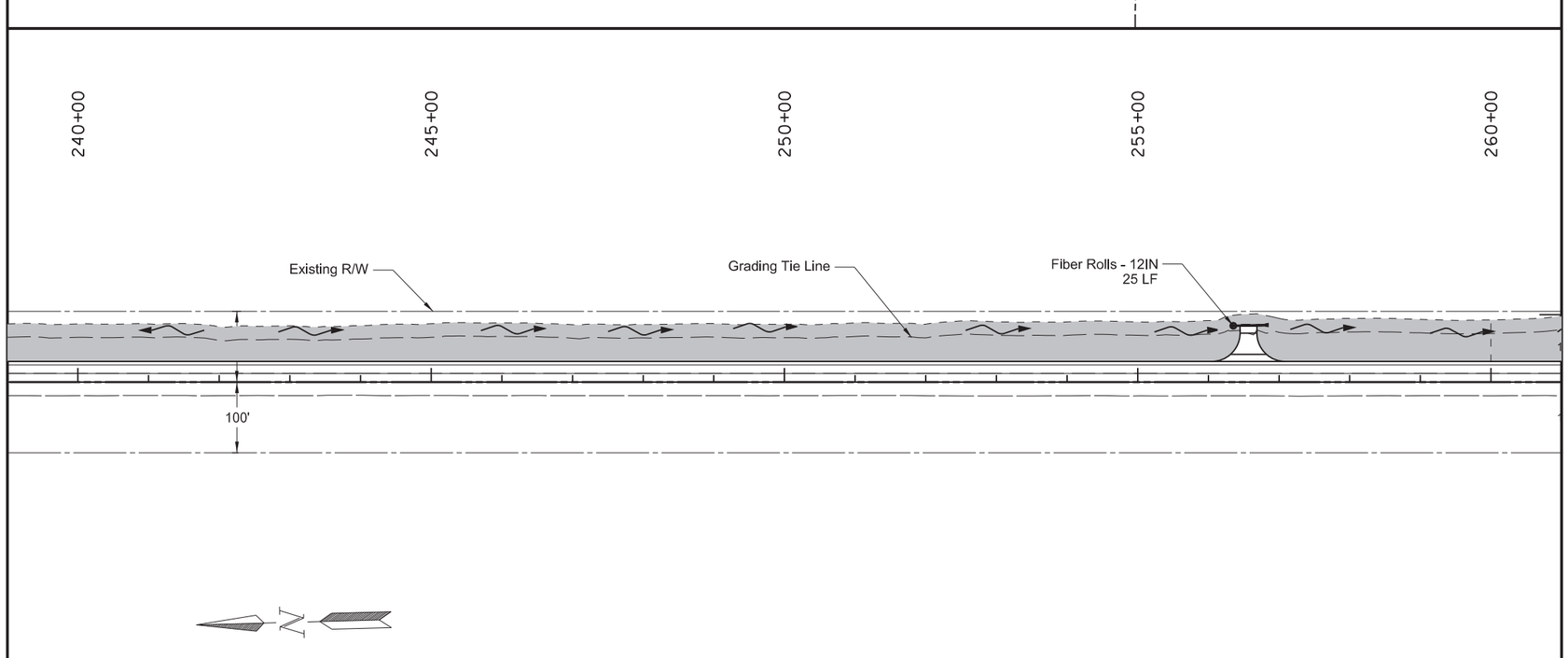
Wetland Impacts

Passing Lane #8

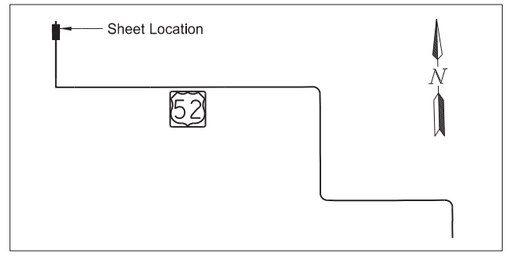
Sta 1800+00 to Sta 1840+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 1 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 226+00 to Sta 260+00 - Lt | 4.04 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 226+00 to Sta 260+00 - Lt | 4.04 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 229+27 to Sta 234+80 - Lt (Protecting Wetland) | 570 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 229+27 to Sta 234+80 - Lt (Protecting Wetland) | 580 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

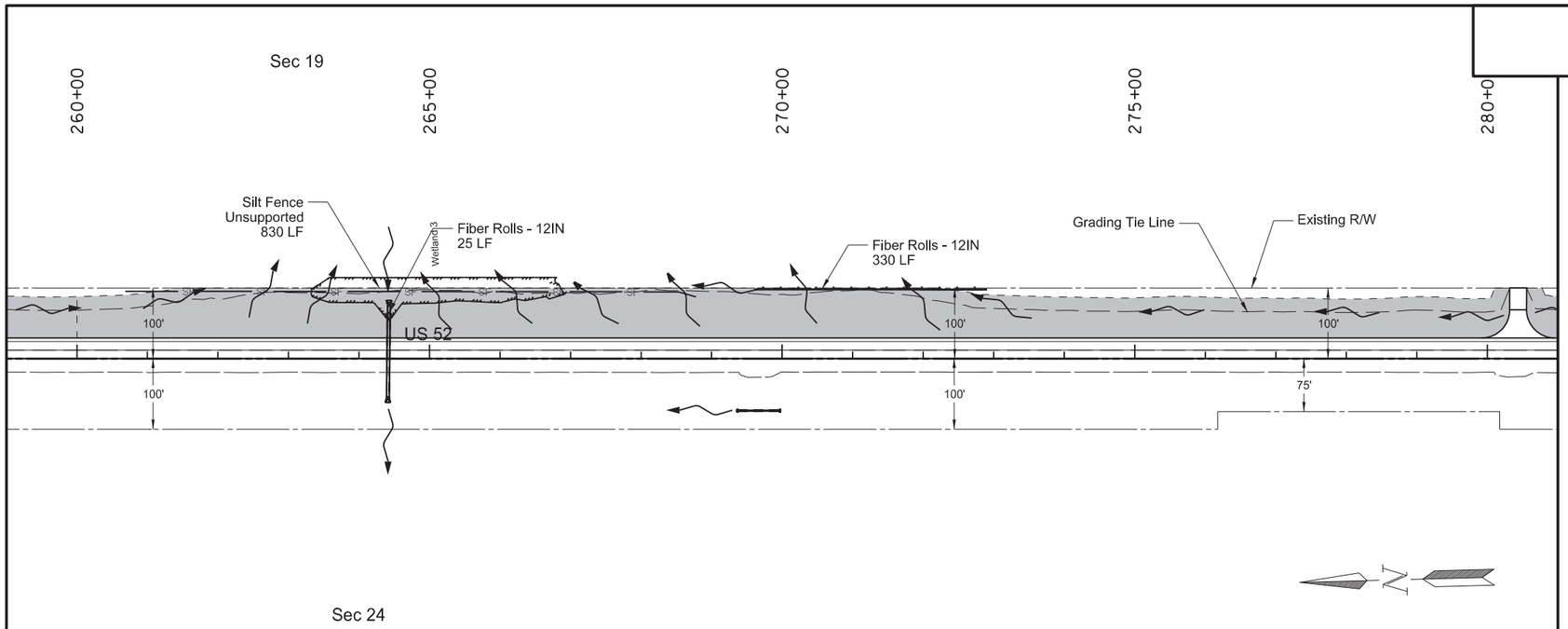
09/01/23

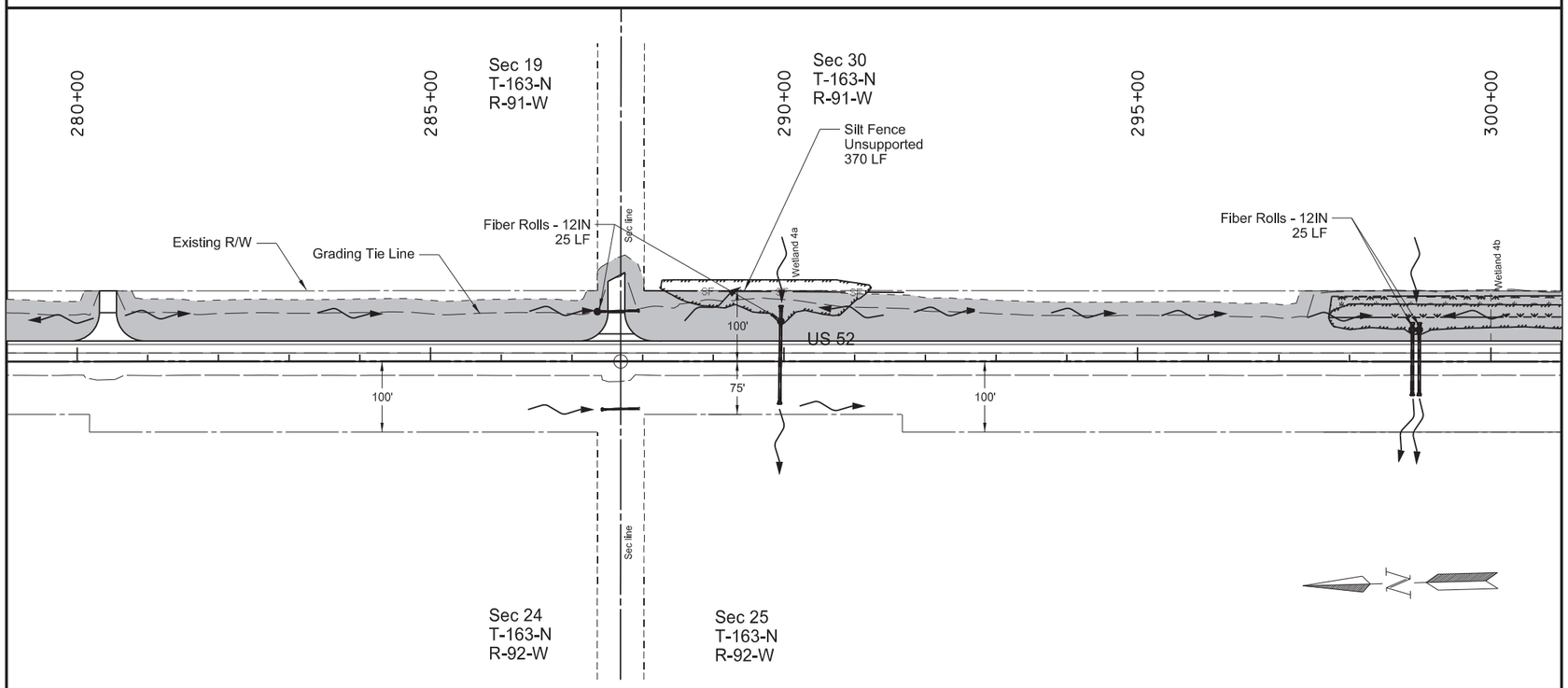
Temporary Erosion Control

Passing Lane #1

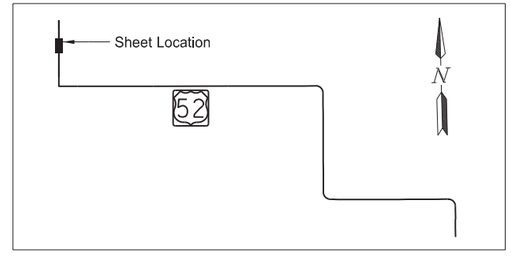
Sta 220+00 to Sta 260+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 2 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 260+00 to Sta 300+00 - Lt | 5.78 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 260+00 to Sta 300+00 - Lt | 5.78 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 260+67 to Sta 268+95 - Lt (Protecting Wetland) | 830 | LF |
| | | Sta 288+02 to Sta 291+70 - Lt (Protecting Wetland) | 370 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 260+67 to Sta 268+95 - Lt (Protecting Wetland) | 830 | LF |
| | | Sta 288+02 to Sta 291+70 - Lt (Protecting Wetland) | 370 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 5 Locations (Protecting Culvert Inlet) | 125 | LF |
| | | Sta 269+68 to Sta 272+91 - Lt (Leaving R/W) | 330 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 5 Locations (Protecting Culvert Inlet) | 125 | LF |
| | | Sta 269+68 to Sta 272+91 - Lt (Leaving R/W) | 330 | LF |




LEGEND

- SF Silt Fence - Unsupported
- Fiber Rolls - 12IN
- Temporary Cover Crop & Soil Stabilization

CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

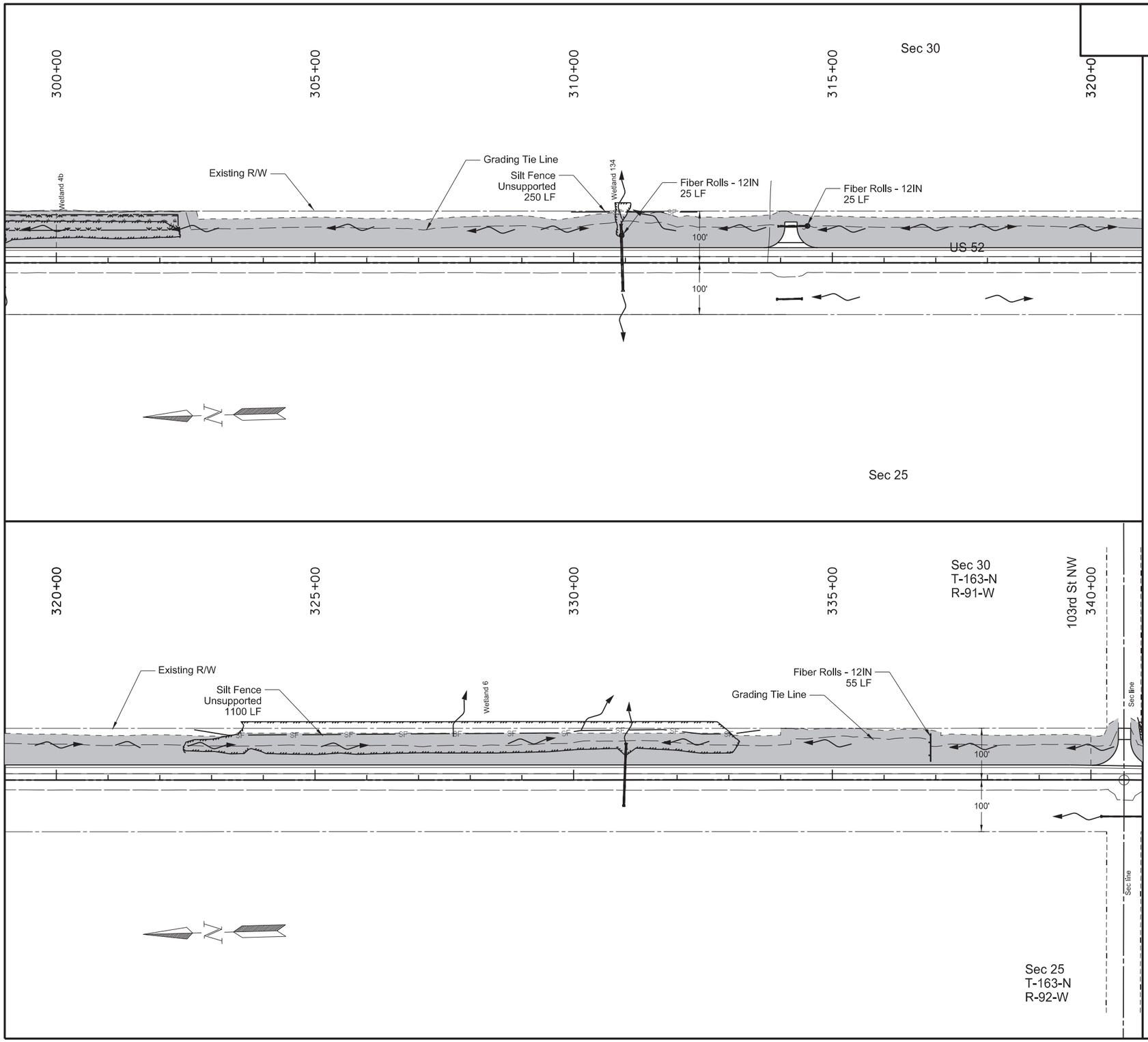
09/01/23

Temporary Erosion Control

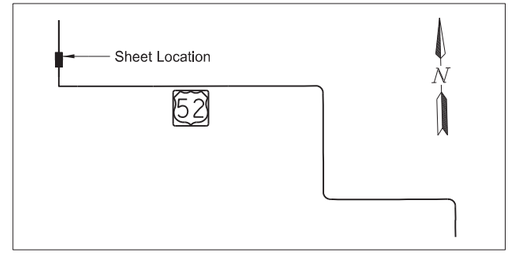
Passing Lane #1

Sta 260+00 to Sta 300+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 3 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 300+00 to Sta 340+00 - Lt | 5.60 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 300+00 to Sta 340+00 - Lt | 5.60 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 309+95 to Sta 312+40 - Lt (Protecting Wetland) | 250 | LF |
| | | Sta 322+66 to Sta 333+61 - Lt (Protecting Wetland) | 1100 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 309+95 to Sta 312+40 - Lt (Protecting Wetland) | 250 | LF |
| | | Sta 322+66 to Sta 333+61 - Lt (Protecting Wetland) | 1100 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 336+90 - Lt (Ditch Check) | 55 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 336+90 - Lt (Ditch Check) | 55 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

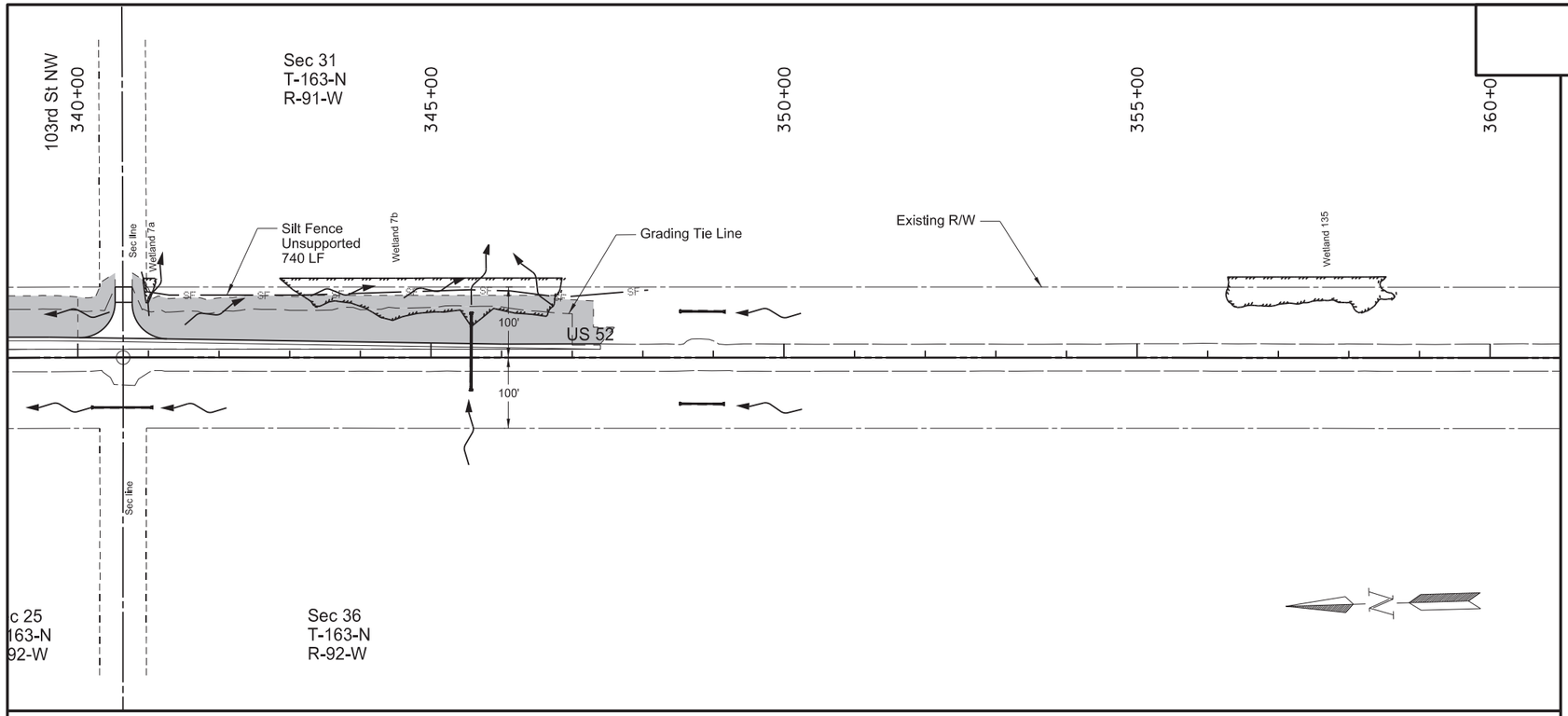
09/01/23

Temporary Erosion Control

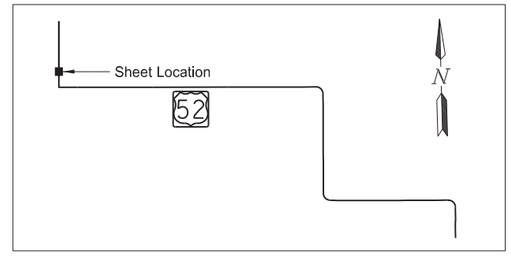
Passing Lane #1

Sta 300+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 4 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 340+00 to Sta 347+60 - Lt | 1.05 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 340+00 to Sta 347+60 - Lt | 1.05 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 340+89 to Sta 348+08 - Lt (Protecting Wetland) | 740 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 340+89 to Sta 348+08 - Lt (Protecting Wetland) | 740 | LF |




LEGEND

- SF Silt Fence - Unsupported
- Fiber Rolls - 12IN
- Temporary Cover Crop & Soil Stabilization

CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

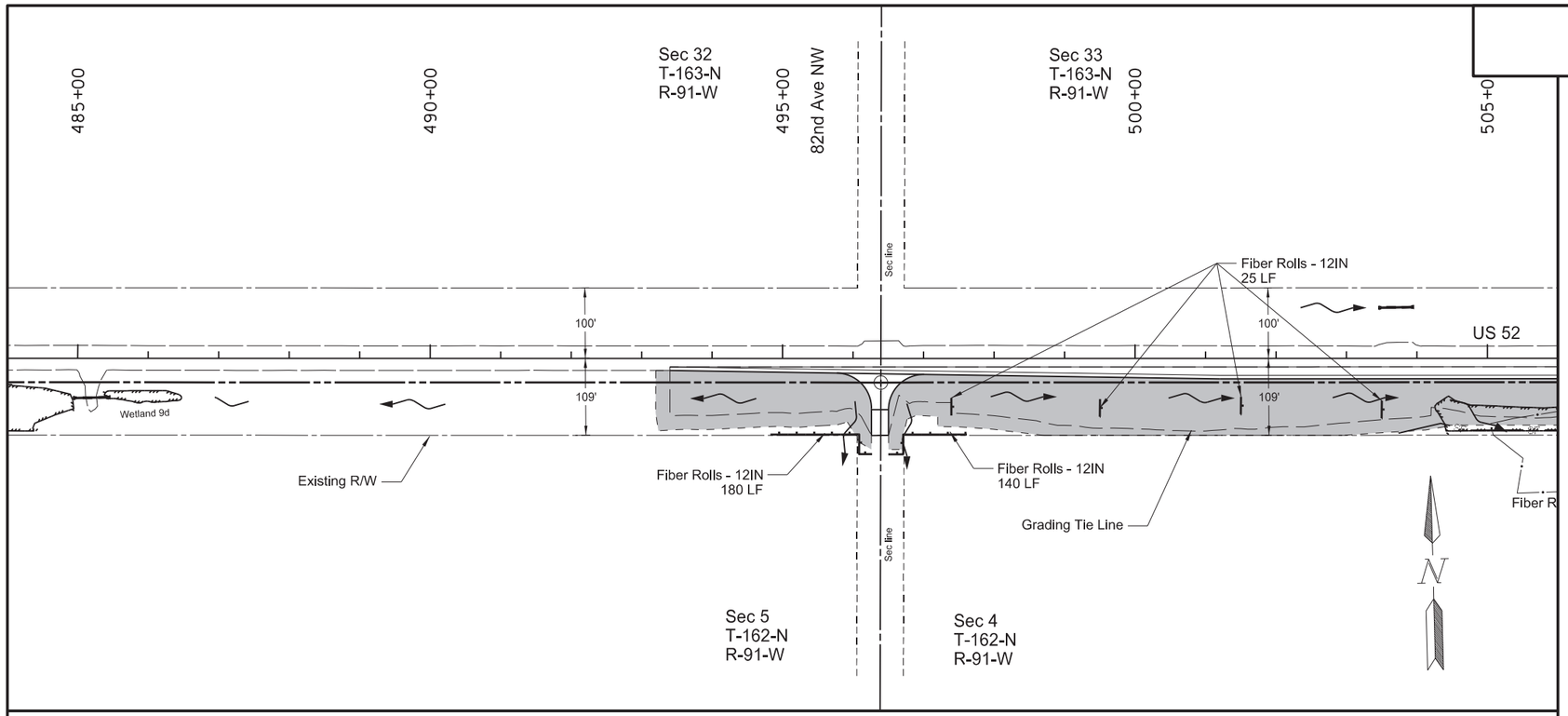
09/01/23

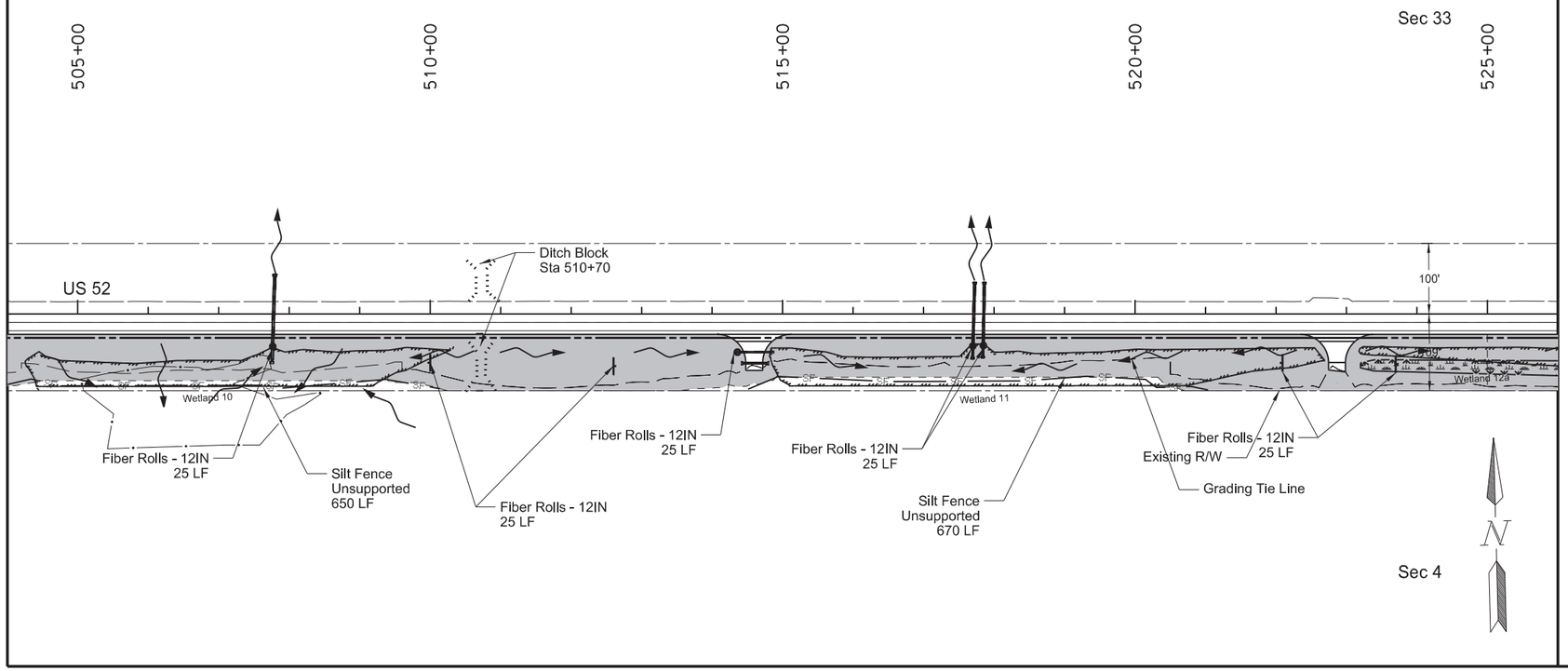
Temporary Erosion Control

Passing Lane #1

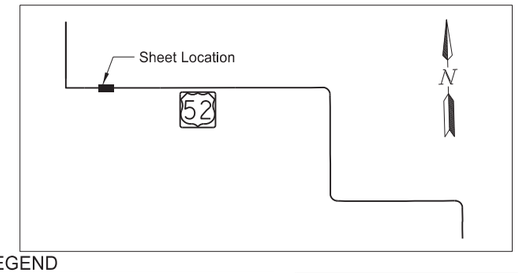
Sta 340+00 to Sta 360+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 5 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 493+20 to Sta 525+00 - Rt | 5.22 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 493+20 to Sta 525+00 - Rt | 5.22 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 503+73 to Sta 510+10 - Rt (Protecting Wetland) | 650 | LF |
| | | Sta 514+51 to Sta 521+04 - Rt (Protecting Wetland) | 670 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 503+73 to Sta 510+10 - Rt (Protecting Wetland) | 650 | LF |
| | | Sta 514+51 to Sta 521+04 - Rt (Protecting Wetland) | 670 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 4 Locations (Protecting Culvert Inlet) | 100 | LF |
| | | Sta 494+82 to Sta 496+27 - Rt (Leaving R/W) | 180 | LF |
| | | Sta 496+49 to Sta 497+62 - Rt (Leaving R/W) | 140 | LF |
| | | Sta 497+39 to Sta 503+50 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 510+00 to Sta 512+60 - Rt (Ditch Checks) | 50 | LF |
| | | Sta 522+10 to Sta 523+70 - Rt (Ditch Checks) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 4 Locations (Protecting Culvert Inlet) | 100 | LF |
| | | Sta 494+82 to Sta 496+27 - Rt (Leaving R/W) | 180 | LF |
| | | Sta 496+49 to Sta 497+62 - Rt (Leaving R/W) | 140 | LF |
| | | Sta 497+39 to Sta 503+50 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 510+00 to Sta 512+60 - Rt (Ditch Checks) | 50 | LF |
| | | Sta 522+10 to Sta 523+70 - Rt (Ditch Checks) | 50 | LF |




LEGEND

- SF Silt Fence - Unsupported
- Fiber Rolls - 12IN
- Temporary Cover Crop & Soil Stabilization

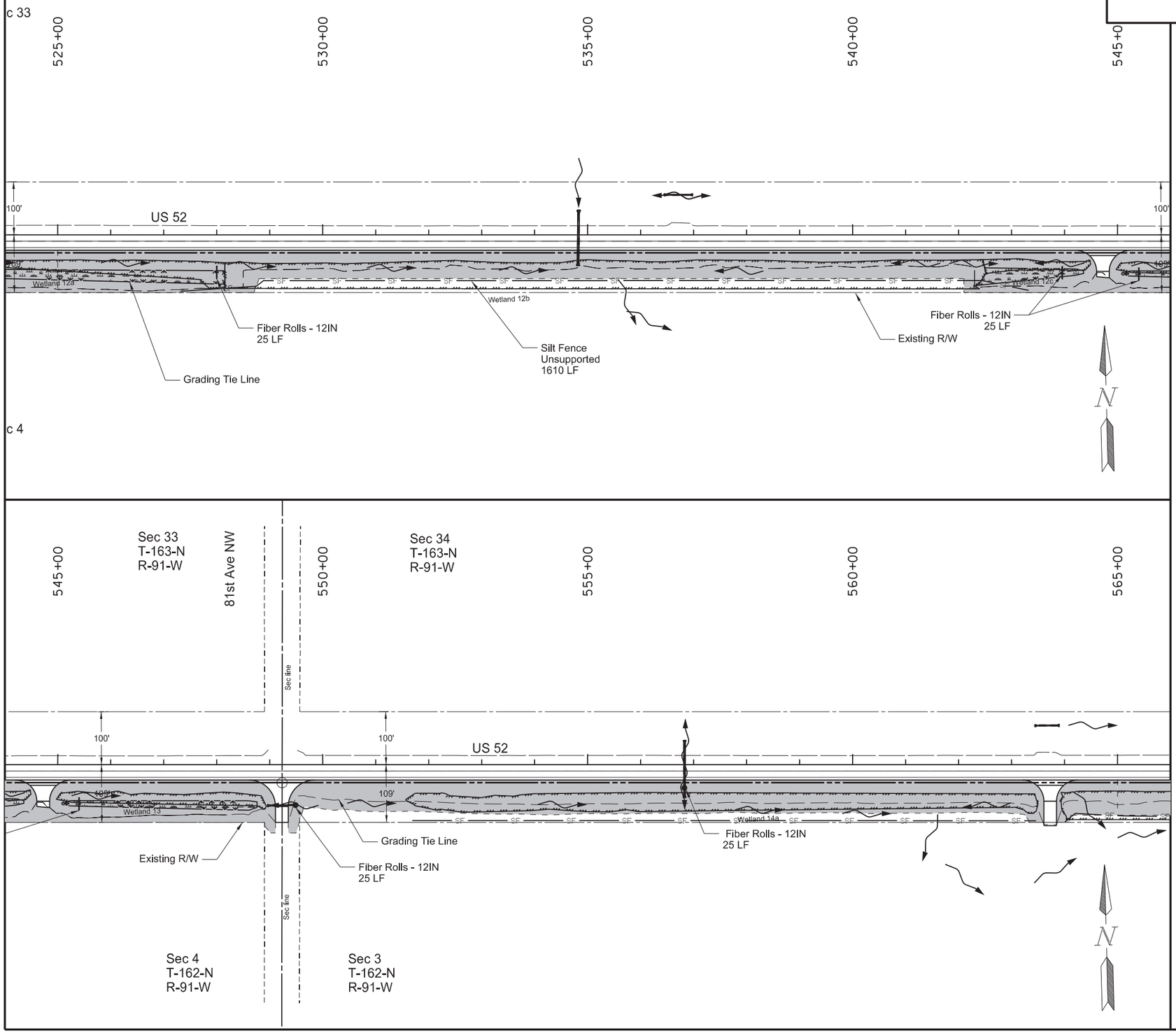
CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

Temporary Erosion Control

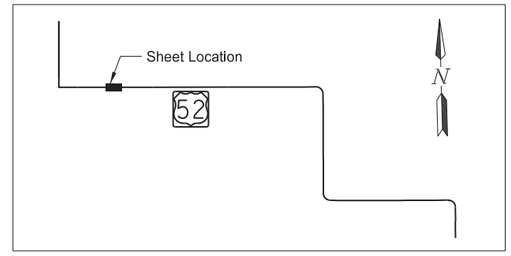
Passing Lane #2

Sta 485+00 to Sta 525+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 6 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 525+00 to Sta 565+00 - Rt | 5.78 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 525+00 to Sta 565+00 - Rt | 5.78 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 525+00 to Sta 543+33 - Rt (Protecting Wetland) | 1610 | LF |
| | | Sta 551+68 to Sta 563+47 - Rt (Leaving R/W) | 1180 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 525+00 to Sta 543+33 - Rt (Protecting Wetland) | 1610 | LF |
| | | Sta 551+68 to Sta 563+47 - Rt (Leaving R/W) | 1180 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 528+00 - Rt (Ditch Check) | 25 | LF |
| | | Sta 543+95 to Sta 545+40 - Rt (Ditch Check) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 528+00 - Rt (Ditch Check) | 25 | LF |
| | | Sta 543+95 to Sta 545+40 - Rt (Ditch Check) | 50 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

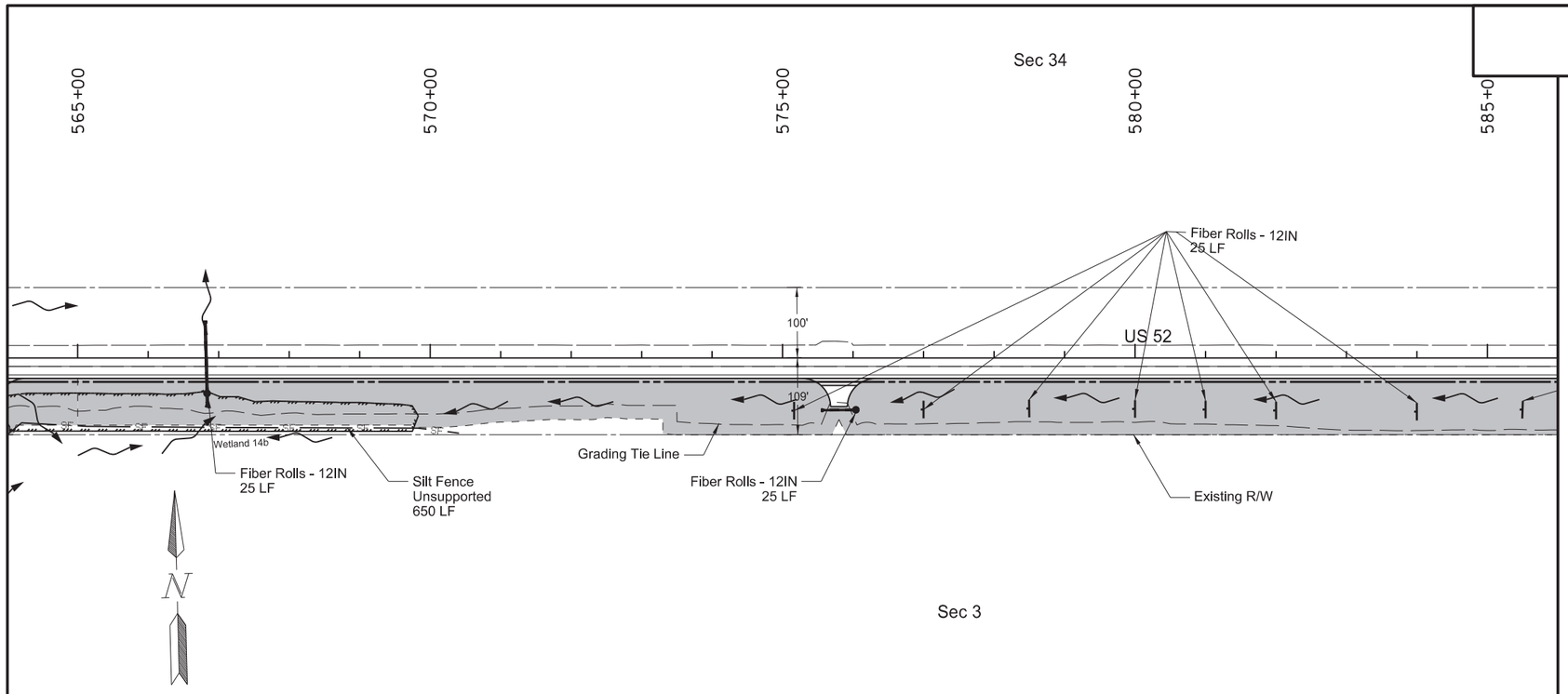
09/01/23

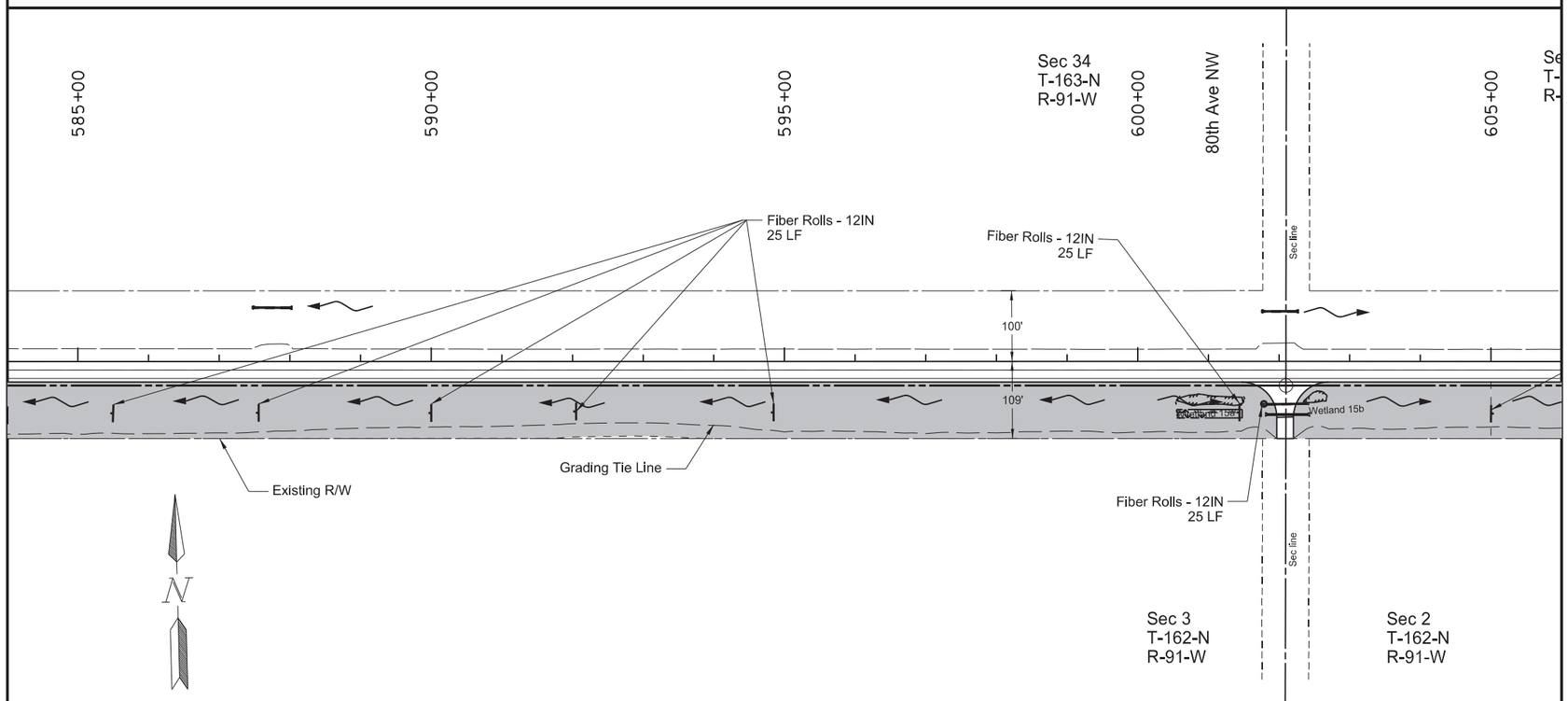
Temporary Erosion Control

Passing Lane #2

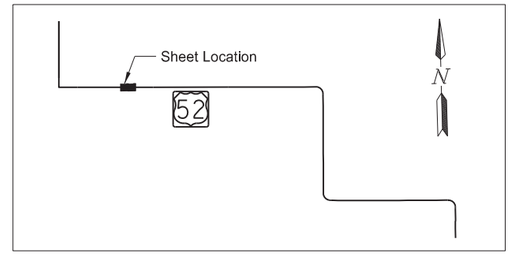
Sta 525+00 to Sta 565+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 7 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 565+00 to Sta 605+00 - Rt | 6.92 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 565+00 to Sta 605+00 - Rt | 6.92 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 564+00 to Sta 570+41 - Rt (Protecting Wetland) | 650 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 564+00 to Sta 570+41 - Rt (Protecting Wetland) | 650 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 3 Locations (Protecting Culvert Inlet) | 75 | LF |
| | | Sta 575+16 to Sta 601+44 - Rt (Ditch Checks) | 325 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 3 Locations (Protecting Culvert Inlet) | 75 | LF |
| | | Sta 575+16 to Sta 601+44 - Rt (Ditch Checks) | 325 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

CHAD FRISINGER
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ENGINEER
NORTH DAKOTA

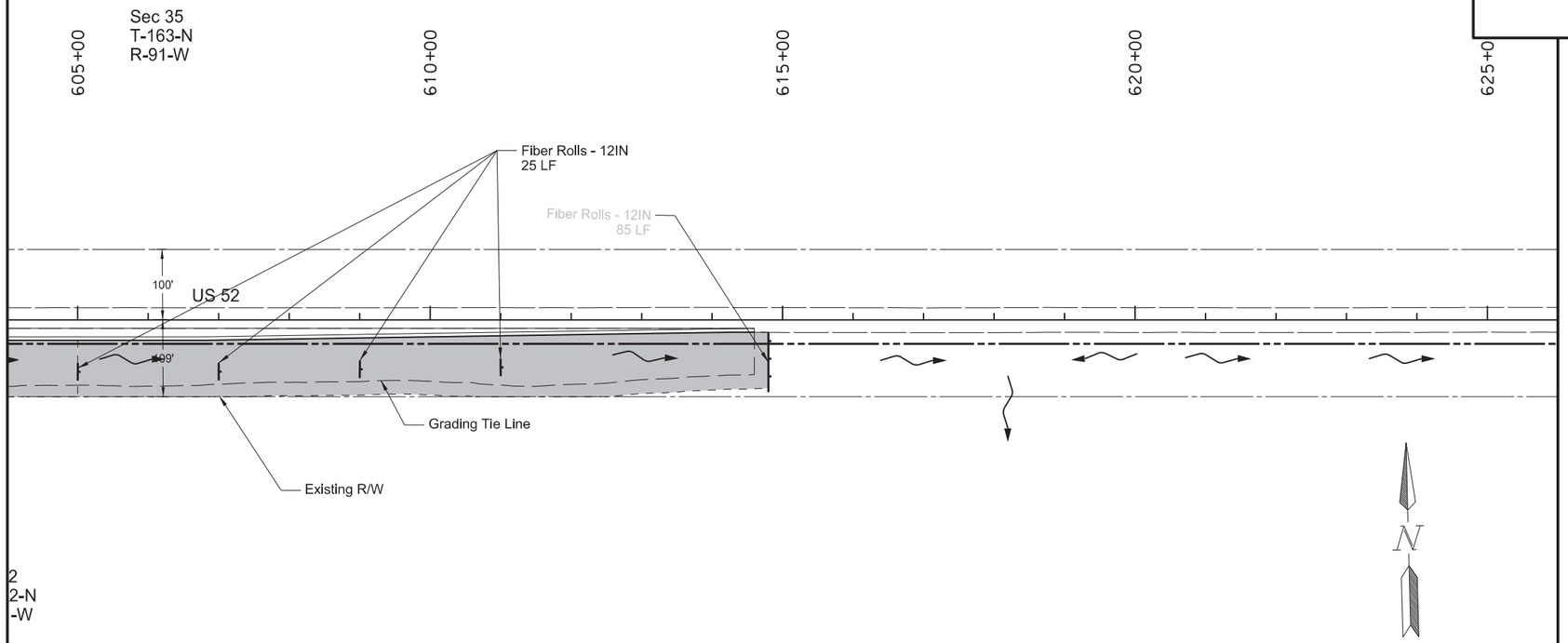
09/01/23

Temporary Erosion Control

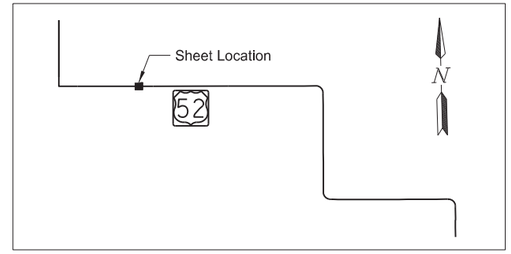
Passing Lane #2

Sta 565+00 to Sta 605+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 8 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 605+00 to Sta 614+80 - Rt | 1.88 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 605+00 to Sta 614+80 - Rt | 1.88 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 605+00 to Sta 611+00 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 614+80 - Rt (Leaving Project Limits) | 85 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | Sta 605+00 to Sta 611+00 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 614+80 - Rt (Leaving Project Limits) | 85 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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ENGINEER
NORTH DAKOTA

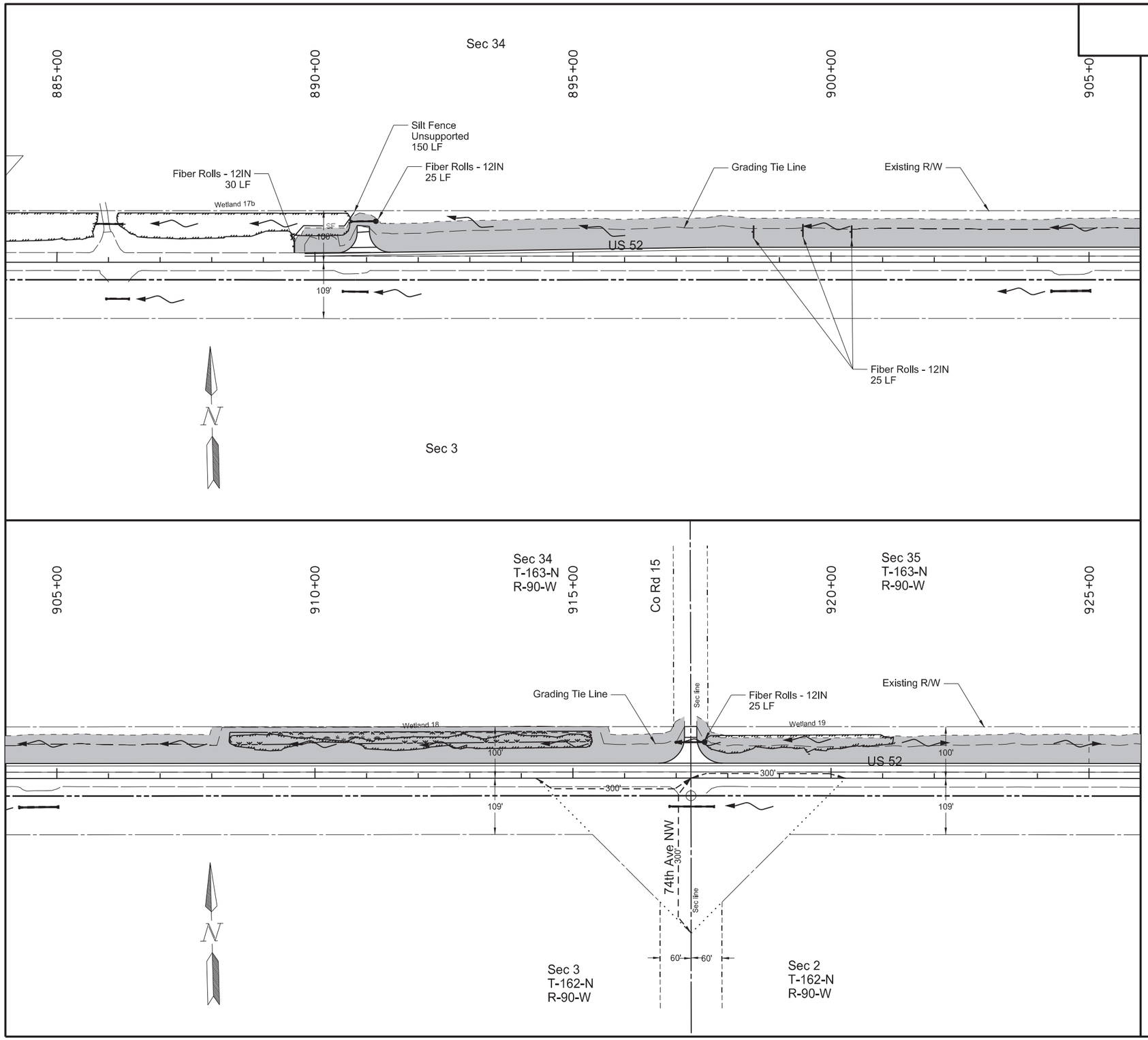
09/01/23

Temporary Erosion Control

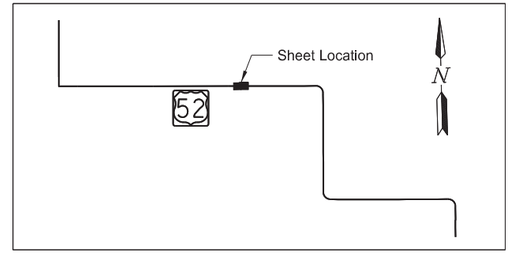
Passing Lane #2

Sta 605+00 to Sta 625+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 9 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 889+60 to Sta 925+00 - Lt | 4.72 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 889+60 to Sta 925+00 - Lt | 4.72 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 889+53 to Sta 890+76 - Lt (Protecting Wetland) | 150 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 889+53 to Sta 890+76 - Lt (Protecting Wetland) | 150 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 889+60 (Leaving Project Limits) | 30 | LF |
| | | Sta 898+50 to Sta 900+40 - Lt (Ditch Checks) | 75 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 889+60 (Leaving Project Limits) | 30 | LF |
| | | Sta 898+50 to Sta 900+40 - Lt (Ditch Checks) | 75 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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NORTH DAKOTA

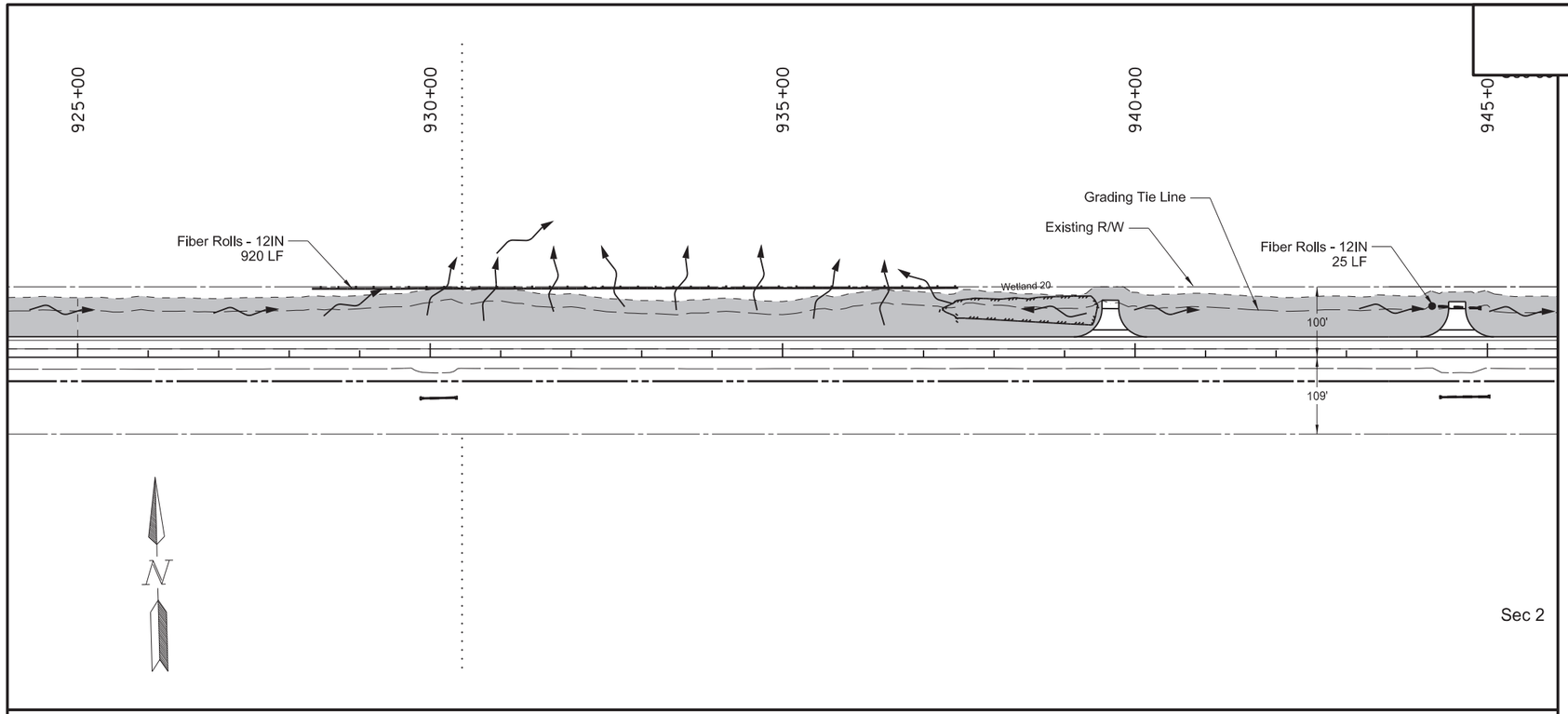
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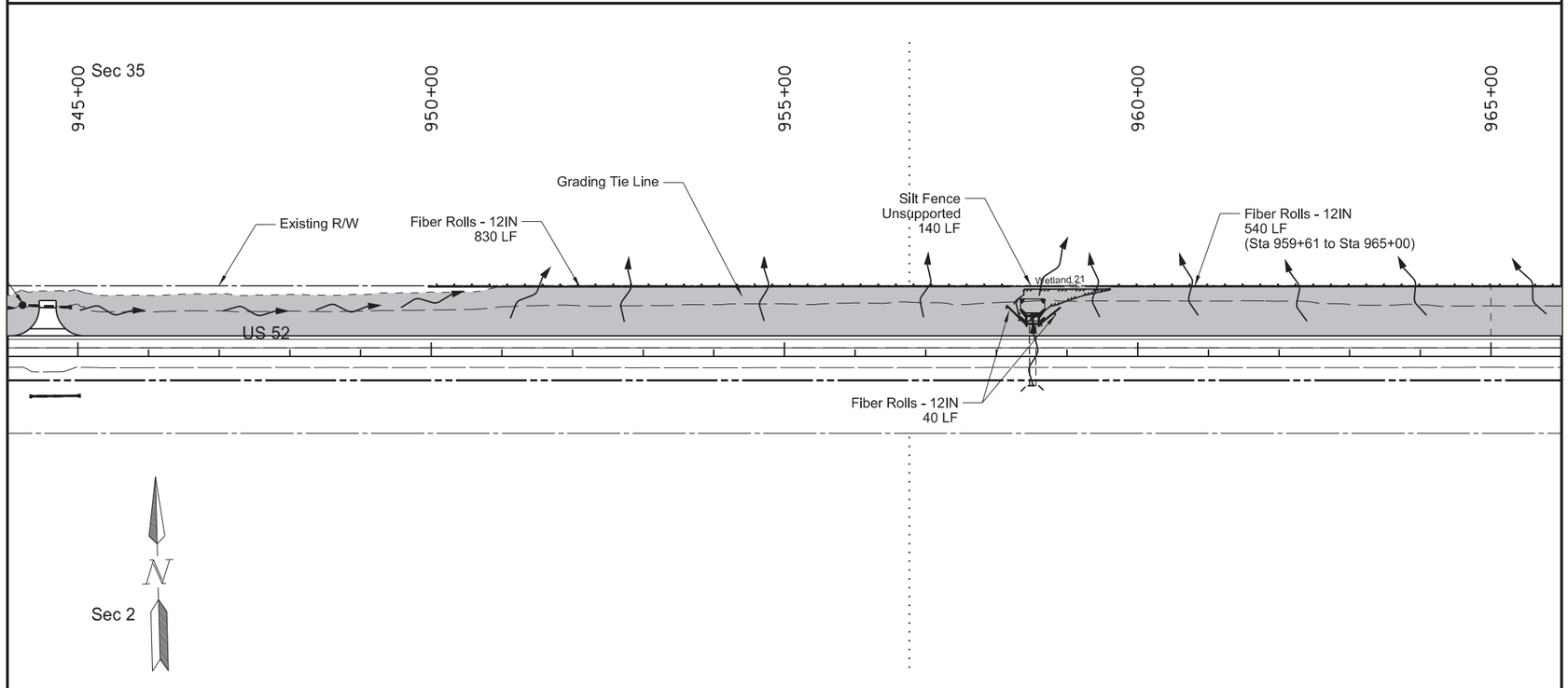
Temporary Erosion Control

Passing Lane #3

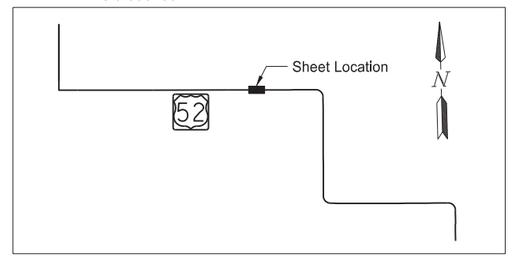
Sta 885+00 to Sta 925+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 10 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 925+00 to Sta 965+00 - Lt | 5.74 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 925+00 to Sta 965+00 - Lt | 5.74 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 958+21 to Sta 959+61 - Lt (Leaving R/W) | 140 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 958+21 to Sta 959+61 - Lt (Leaving R/W) | 140 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| | | Sta 928+32 to 937+50 - Lt (Leaving R/W) | 920 | LF |
| | | Sta 949+95 to Sta 958+21 - Lt (Leaving R/W) | 830 | LF |
| | | Sta 958+14 to Sta 958+43 - Lt (Culvert Outflow) | 40 | LF |
| | | Sta 958+60 to Sta 958+91 - Lt (Culvert Outflow) | 40 | LF |
| | | Sta 959+61 to Sta 965+00 - Lt (Leaving R/W) | 540 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| | | Sta 928+32 to 937+50 - Lt (Leaving R/W) | 920 | LF |
| | | Sta 949+95 to Sta 958+21 - Lt (Leaving R/W) | 830 | LF |
| | | Sta 958+14 to Sta 958+43 - Lt (Culvert Outflow) | 40 | LF |
| | | Sta 958+60 to Sta 958+91 - Lt (Culvert Outflow) | 40 | LF |
| | | Sta 959+61 to Sta 965+00 - Lt (Leaving R/W) | 540 | LF |
| 900 | 1000 | TEMPORARY STREAM DIVERSION | | |
| | | Str. #52-018.155 RCB Extension<br>Sta 958+50 | 1 | EA |




LEGEND

- SF Silt Fence - Unsupported
- Fiber Rolls - 12IN
- Temporary Cover Crop & Soil Stabilization

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NORTH DAKOTA

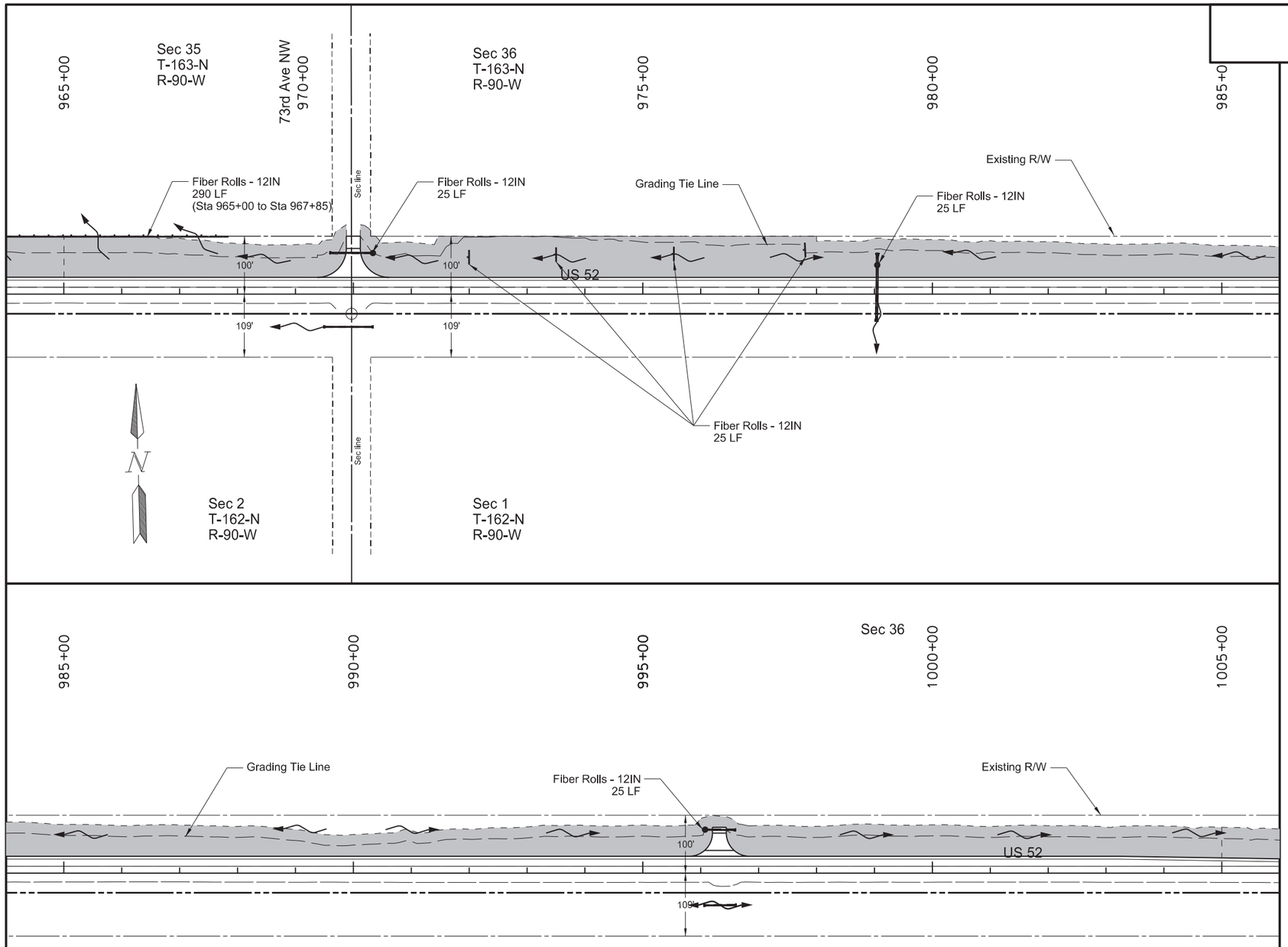
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Temporary Erosion Control

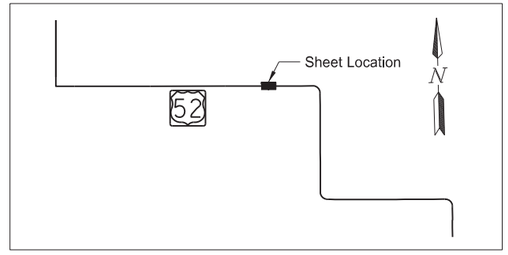
Passing Lane #3

Sta 925+00 to Sta 965+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 11 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 956+00 to Sta 1005+00 - Lt | 5.28 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 956+00 to Sta 1005+00 - Lt | 5.28 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 3 Locations (Protecting Culvert Inlet) | 75 | LF |
| | | Sta 965+00 to 967+85 - Lt (Leaving R/W) | 290 | LF |
| | | Sta 972+00 to Sta 977+80 - Lt (Ditch Checks) | 100 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 3 Locations (Protecting Culvert Inlet) | 75 | LF |
| | | Sta 965+00 to 967+85 - Lt (Leaving R/W) | 290 | LF |
| | | Sta 972+00 to Sta 977+80 - Lt (Ditch Checks) | 100 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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ENGINEER
NORTH DAKOTA

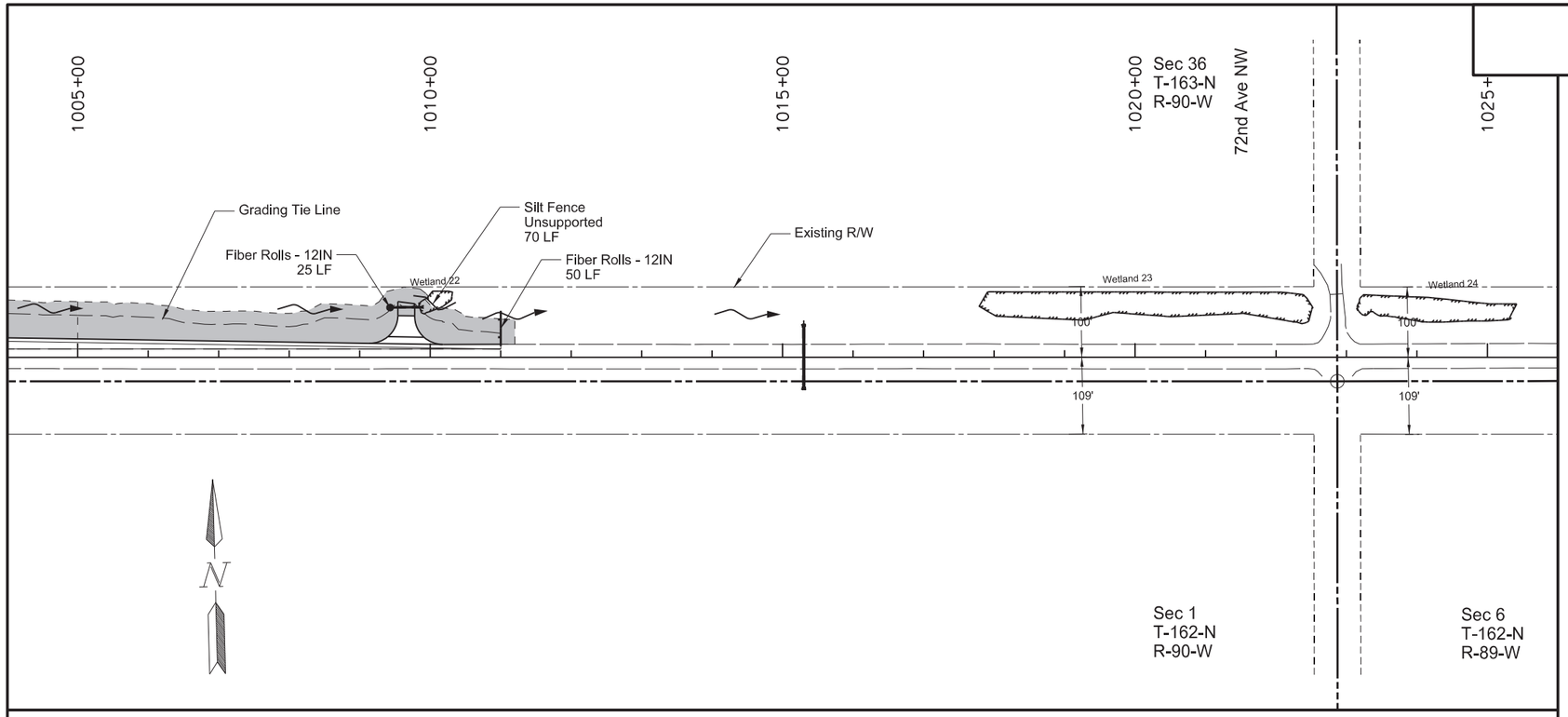
09/01/23

Temporary Erosion Control

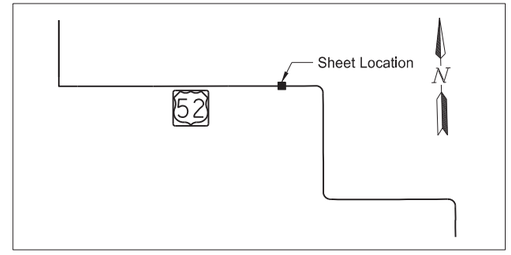
Passing Lane #3

Sta 965+00 to Sta 1005+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 12 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1005+00 to Sta 1011+20 - Lt | 0.68 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1005+00 to Sta 1011+20 - Lt | 0.68 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1009+78 to Sta 1010+69 - Lt (Protecting Wetland) | 70 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1009+78 to Sta 1010+69 - Lt (Protecting Wetland) | 70 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| | | Sta 1020+00 - Lt (Leaving Project Limits) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| | | Sta 1020+00 - Lt (Leaving Project Limits) | 50 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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ENGINEER
NORTH DAKOTA

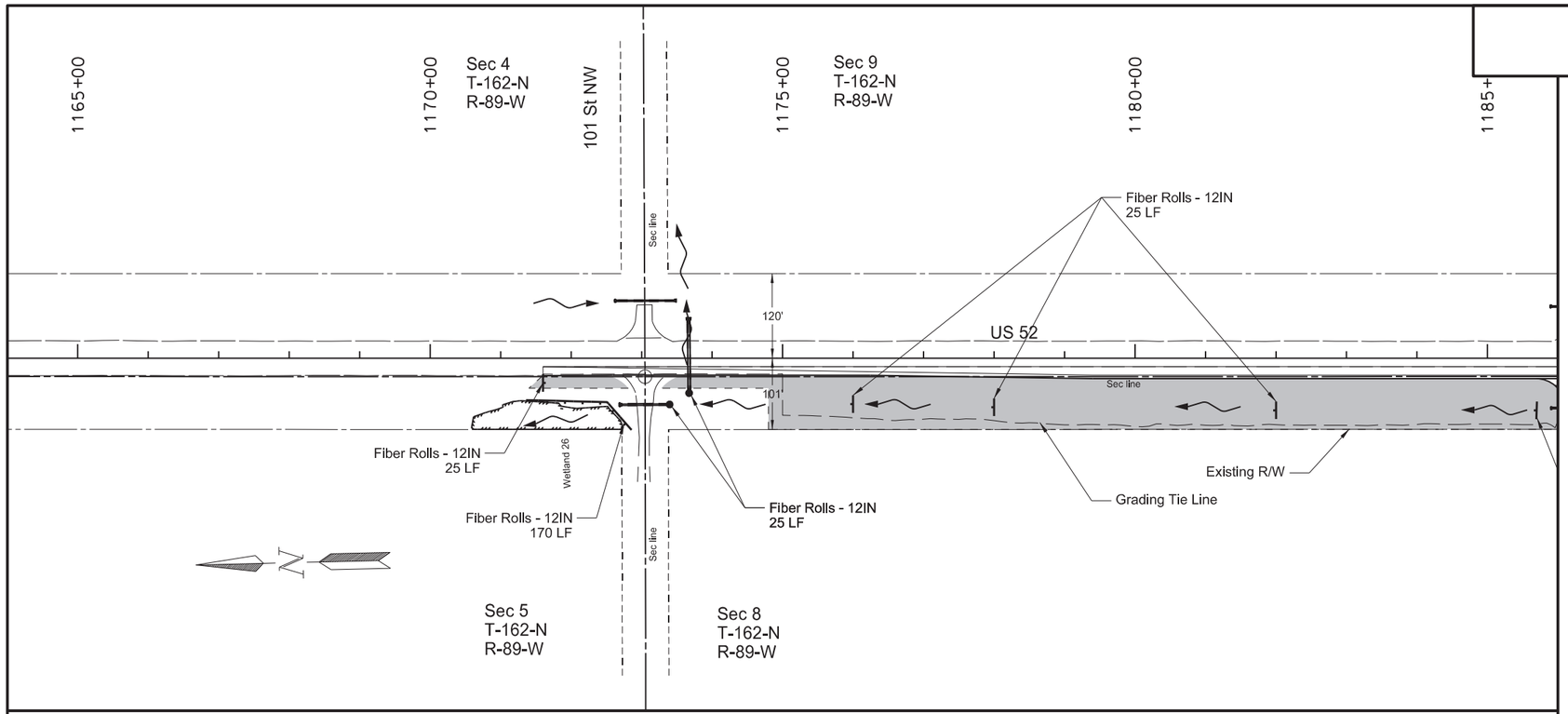
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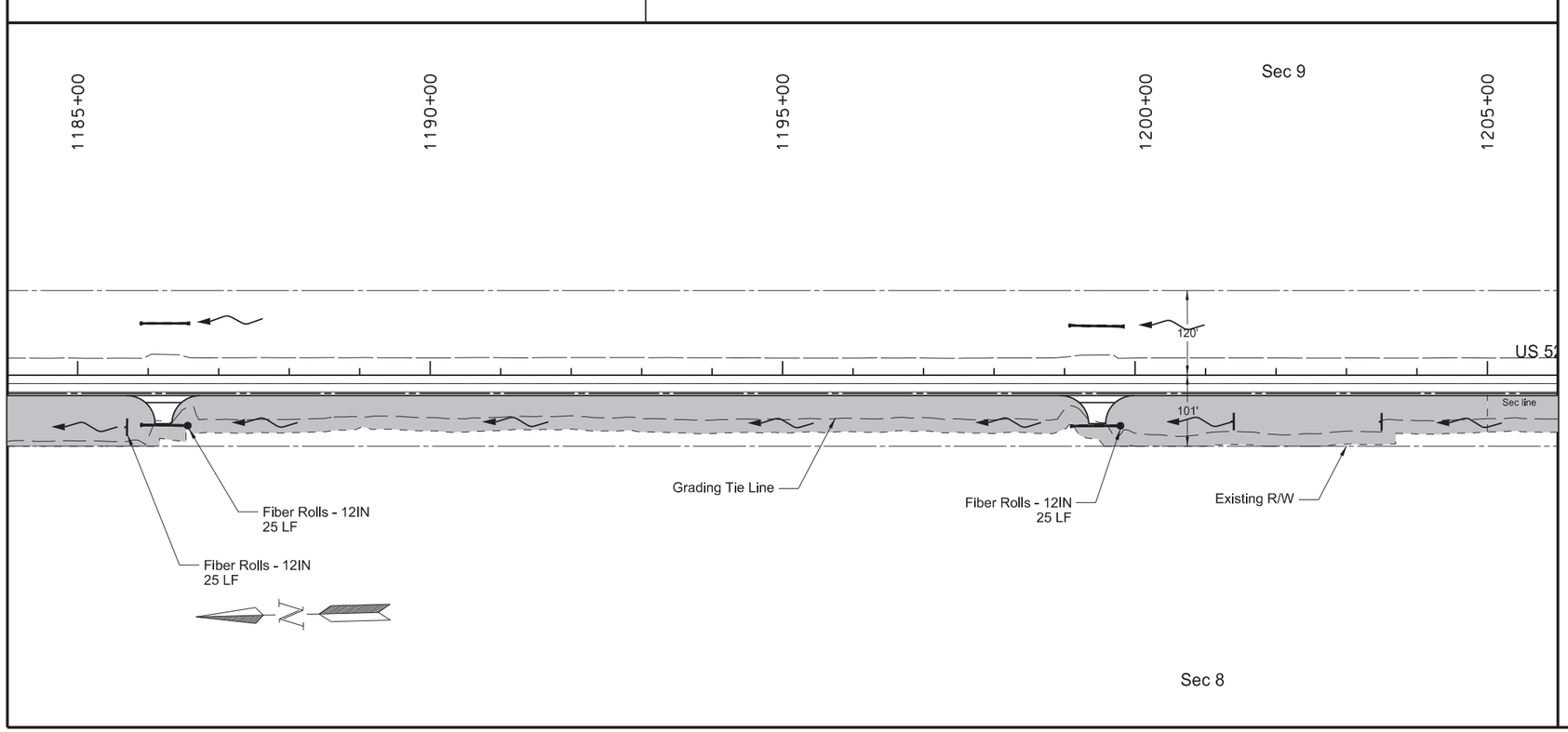
Temporary Erosion Control

Passing Lane #3

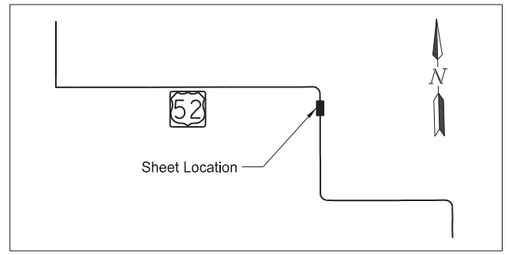
Sta 1005+00 to Sta 1025+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 13 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1171+40 to Sta 1205+00 - Rt | 4.81 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1171+40 to Sta 1205+00 - Rt | 4.81 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 5 Locations (Protecting Culvert Inlet) | 125 | LF |
| | | Sta 1171+36 to Sta 1172+86 (Protecting Wetland) | 170 | LF |
| | | Sta 1171+40 - Rt (Leaving R/W) | 25 | LF |
| | | Sta 1176+00 to Sta 1185+70 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 1201+40 to Sta 1203+50 - Rt (Ditch Checks) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 5 Locations (Protecting Culvert Inlet) | 125 | LF |
| | | Sta 1171+36 to Sta 1172+86 (Protecting Wetland) | 170 | LF |
| | | Sta 1171+40 - Rt (Leaving R/W) | 25 | LF |
| | | Sta 1176+00 to Sta 1185+70 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 1201+40 to Sta 1203+50 - Rt (Ditch Checks) | 50 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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ENGINEER
NORTH DAKOTA

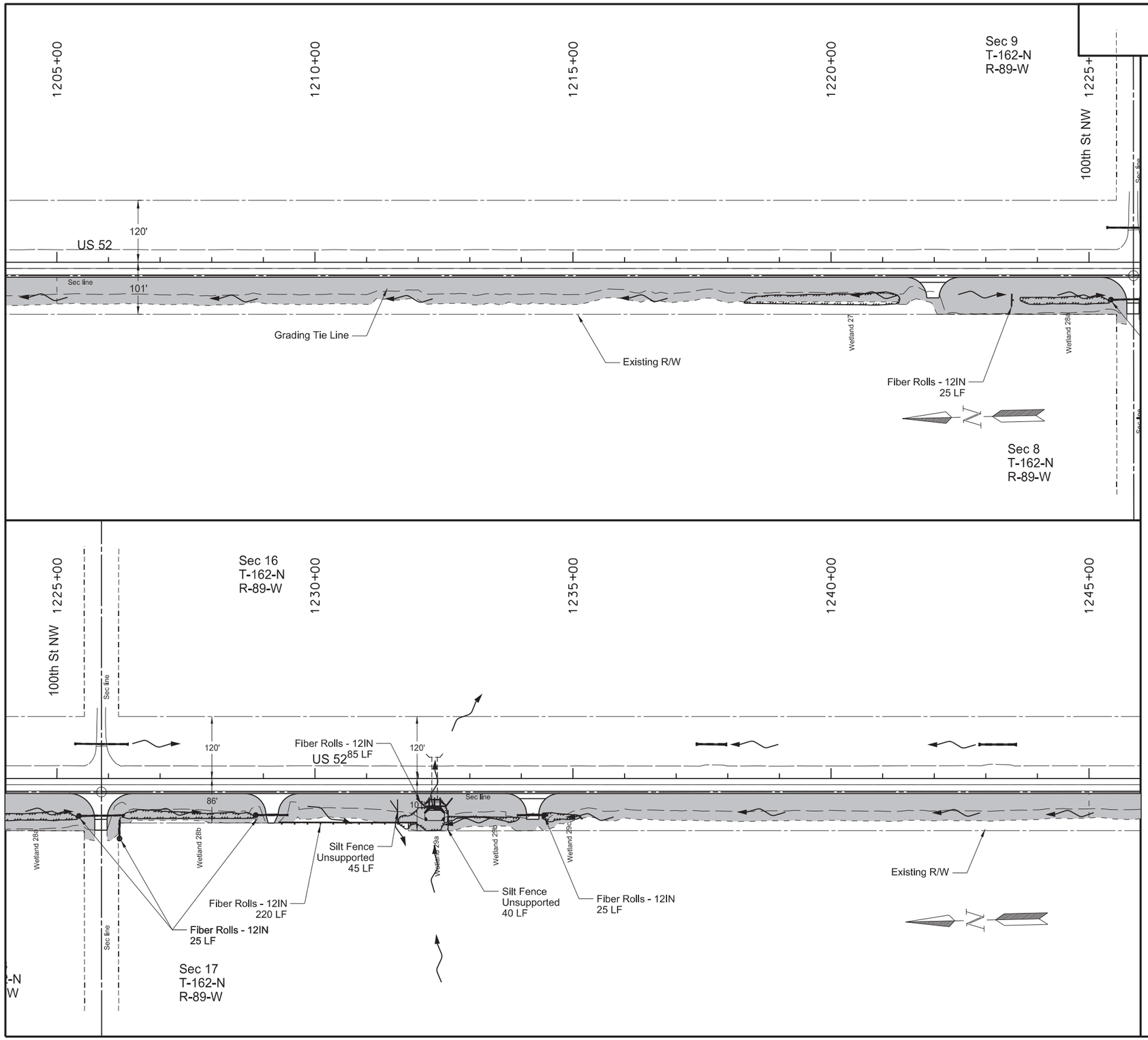
09/01/23

Temporary Erosion Control

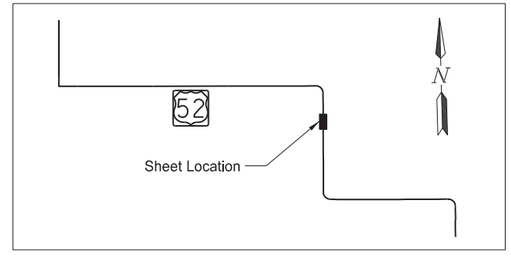
Passing Lane #4

Sta 1165+00 to Sta 1205+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 14 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1205+00 to Sta 1245+00 - Rt | 4.63 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1205+00 to Sta 1245+00 - Rt | 4.63 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1231+60 - Rt (Protecting Wetland) | 45 | LF |
| | | Sta 1235+58 - Rt (Protecting Wetland) | 40 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1231+60 - Rt (Protecting Wetland) | 45 | LF |
| | | Sta 1235+58 - Rt (Protecting Wetland) | 40 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 4 Locations (Protecting Culvert Inlet) | 100 | LF |
| | | Sta 1223+50 - Rt (Ditch Check) | 25 | LF |
| | | Sta 1229+33 to 1231+49 - Rt (Leaving R/W) | 220 | LF |
| | | Sta 1231+96 to Sta 1232+67 - Rt (Protect Box Culvert Inlet | 85 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 4 Locations (Protecting Culvert Inlet) | 100 | LF |
| | | Sta 1223+50 - Rt (Ditch Check) | 25 | LF |
| | | Sta 1229+33 to 1231+49 - Rt (Leaving R/W) | 220 | LF |
| | | Sta 1231+96 to Sta 1232+67 - Rt (Protect Box Culvert Inlet | 85 | LF |
| 900 | 1000 | TEMPORARY STREAM DIVERSION | | |
| | | Str. #52-023.396 RCB Extension<br>Sta 1232+30 | 1 | EA |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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ENGINEER
NORTH DAKOTA

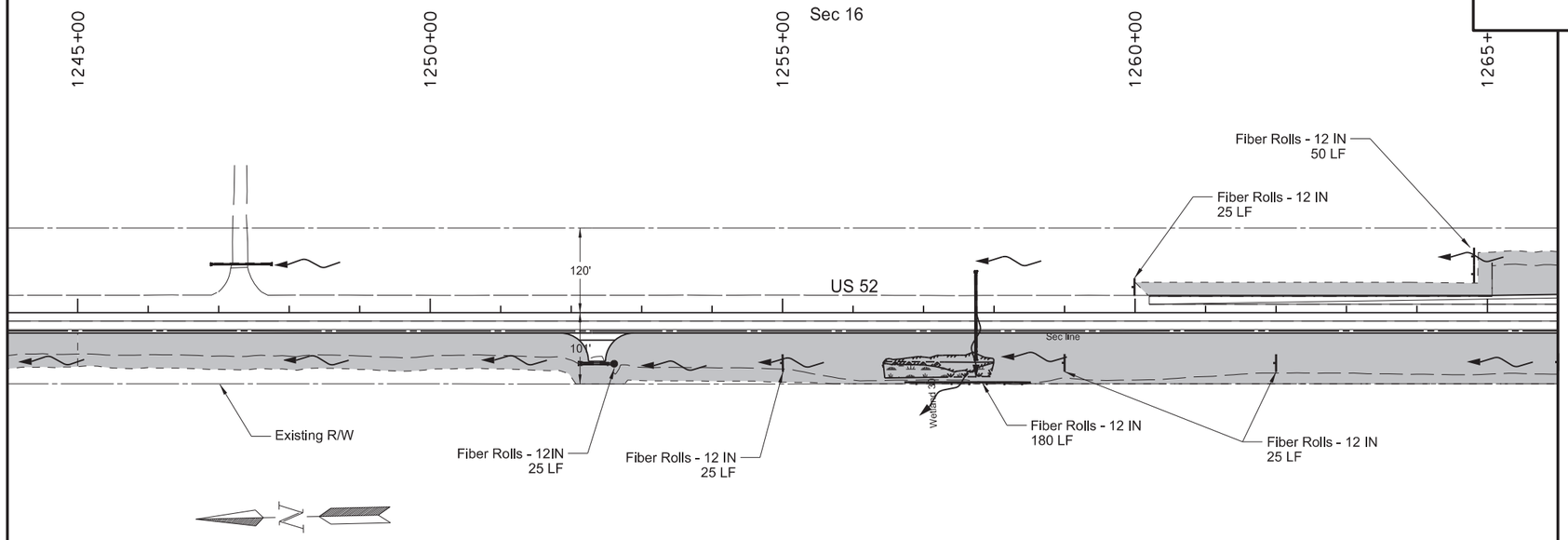
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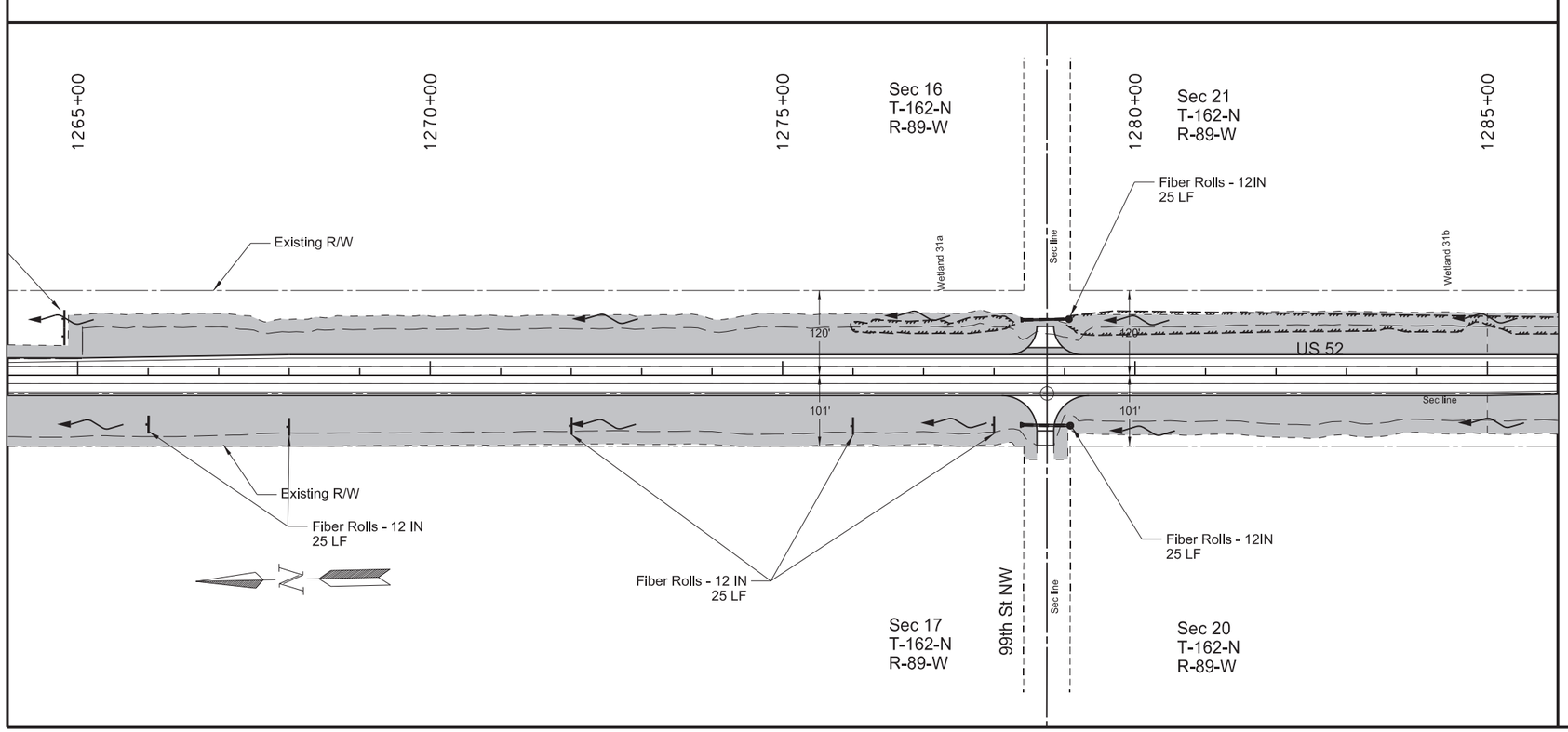
Temporary Erosion Control

Passing Lane #4

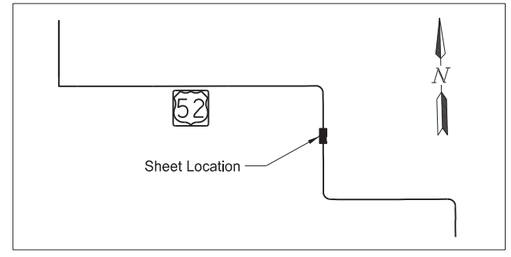
Sta 1205+00 to Sta 1245+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 15 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1245+00 to Sta 1285+00 - Rt | 5.91 | ACRE |
| | | Sta 1245+00 to Sta 1285+00 - Lt | 2.83 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1245+00 to Sta 1285+00 - Rt | 5.91 | ACRE |
| | | Sta 1245+00 to Sta 1285+00 - Lt | 2.83 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 3 Locations (Protecting Culvert Inlet) | 75 | LF |
| | | Sta 1256+72 to Sta 1258+53 - Rt (Leaving R/W) | 180 | LF |
| | | Sta 1260+00 - Lt (Leaving Project Limits) | 25 | LF |
| | | Sta 1264+81 - Lt (Leaving Project Limits) | 50 | LF |
| | | Sta 1255+00 to Sta 1262+00 - Rt (Ditch Checks) | 75 | LF |
| | | Sta 1266+00 to Sta 1278+00 - Rt (Ditch Checks) | 125 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 3 Locations (Protecting Culvert Inlet) | 75 | LF |
| | | Sta 1256+72 to Sta 1258+53 - Rt (Leaving R/W) | 180 | LF |
| | | Sta 1260+00 - Lt (Leaving Project Limits) | 25 | LF |
| | | Sta 1264+81 - Lt (Leaving Project Limits) | 50 | LF |
| | | Sta 1255+00 to Sta 1262+00 - Rt (Ditch Checks) | 75 | LF |
| | | Sta 1266+00 to Sta 1278+00 - Rt (Ditch Checks) | 125 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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NORTH DAKOTA

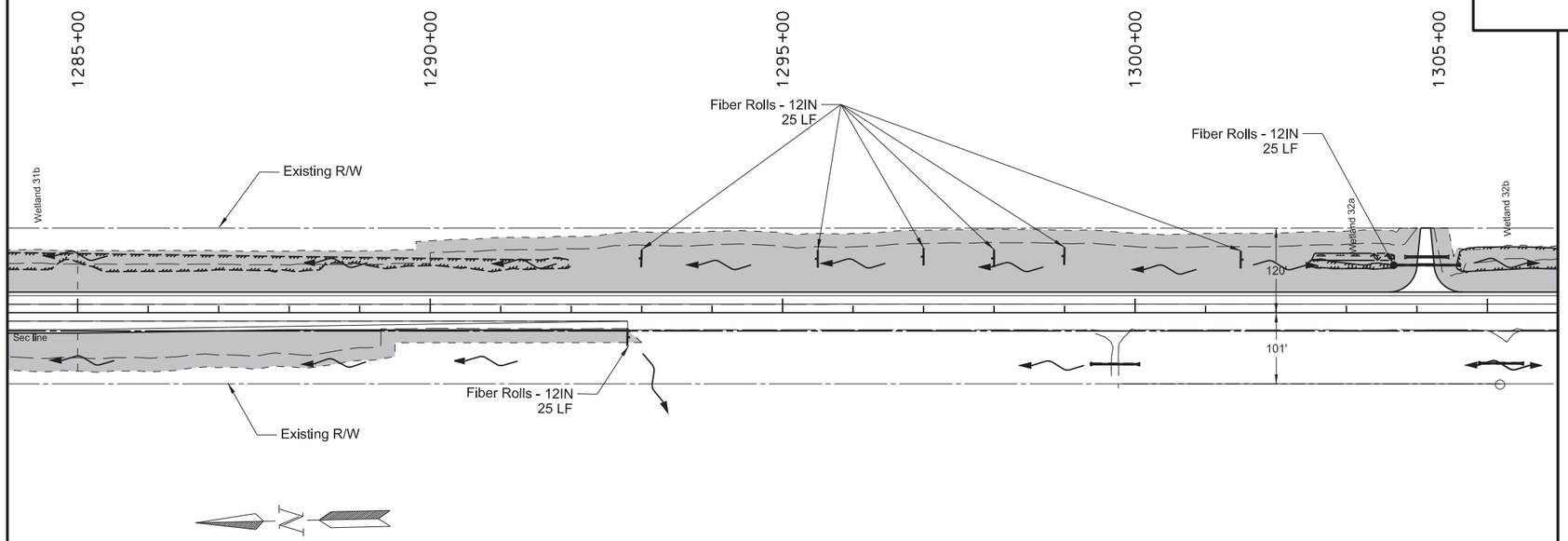
09/01/23

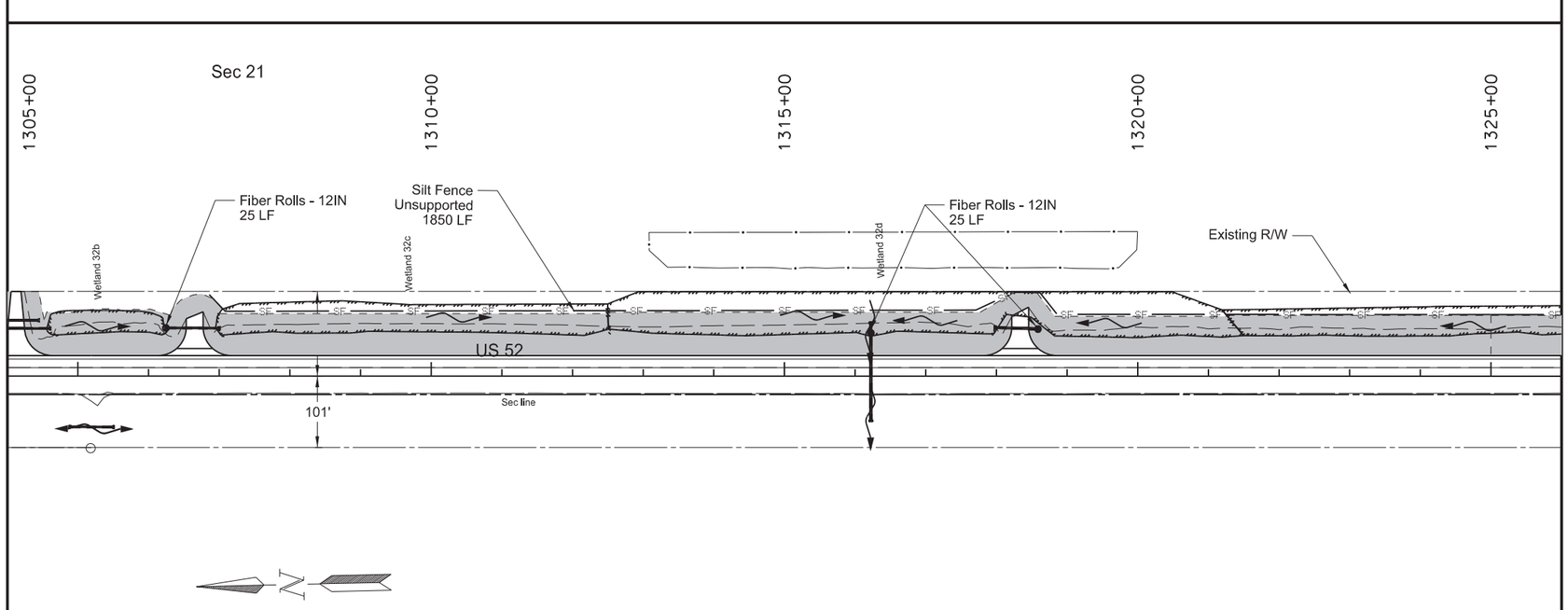
Temporary Erosion Control

Passing Lane #4 and #5

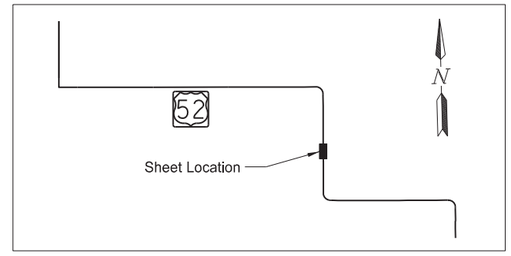
Sta 1245+00 to Sta 1285+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 16 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1285+00 to Sta 1325+00 - Rt | 0.67 | ACRE |
| | | Sta 1285+00 to Sta 1325+00 - Lt | 6.21 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1285+00 to Sta 1325+00 - Rt | 0.67 | ACRE |
| | | Sta 1285+00 to Sta 1325+00 - Lt | 6.21 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1306+85 to Sta 1325+00 - Lt (Protecting Wetland) | 1850 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1306+85 to Sta 1325+00 (Protecting Wetland) | 1850 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 4 Locations (Protecting Culvert Inlet) | 100 | LF |
| | | Sta 1292+80 - Rt (Leaving Project Limits) | 25 | LF |
| | | Sta 1293+00 to Sta 1301+50 - Lt (Ditch Checks) | 150 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 4 Locations (Protecting Culvert Inlet) | 100 | LF |
| | | Sta 1292+80 - Rt (Leaving Project Limits) | 25 | LF |
| | | Sta 1293+00 to Sta 1301+50 - Lt (Ditch Checks) | 150 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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NORTH DAKOTA

09/01/23

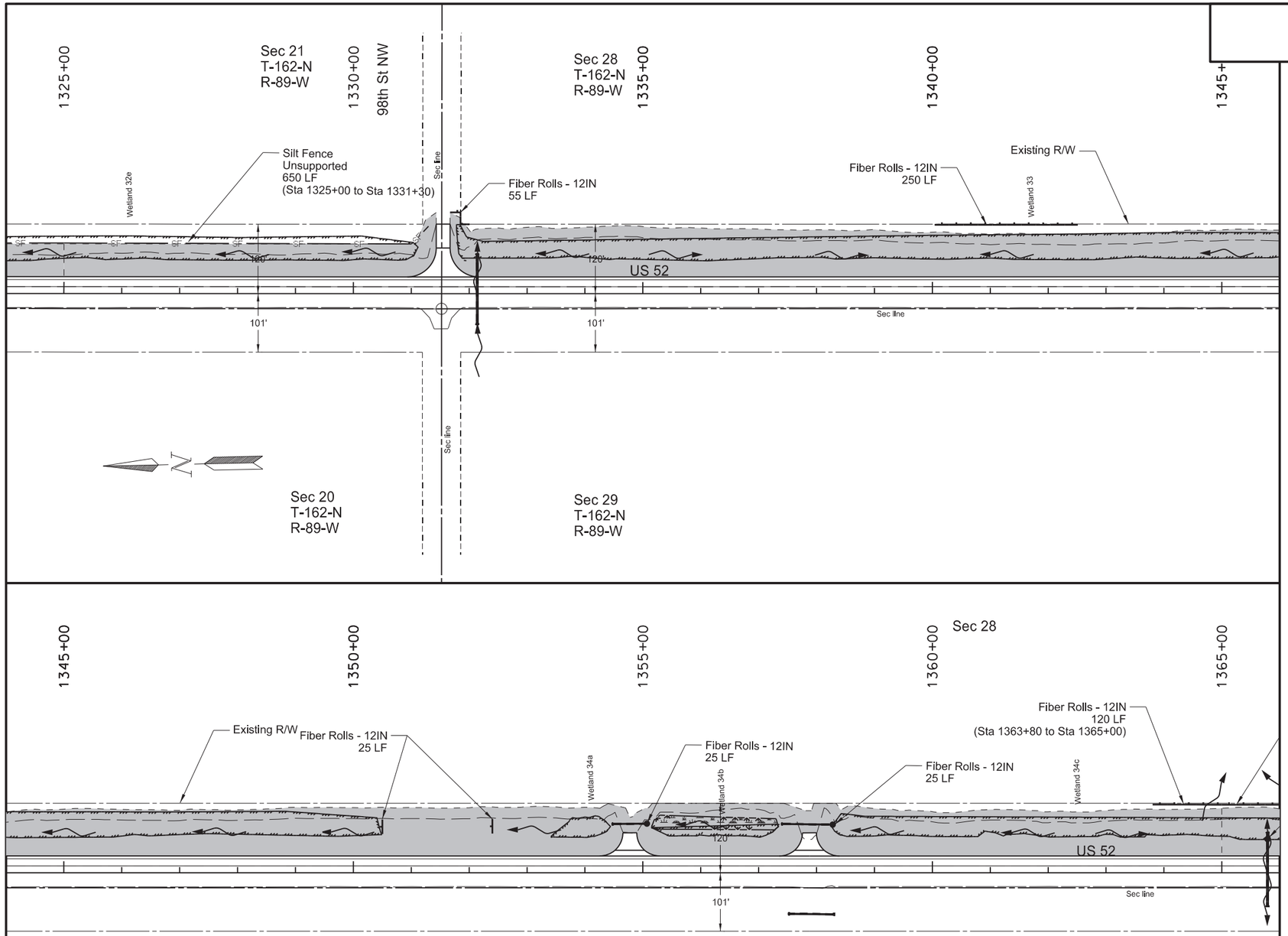
Temporary Erosion Control

Passing Lane #4 and #5

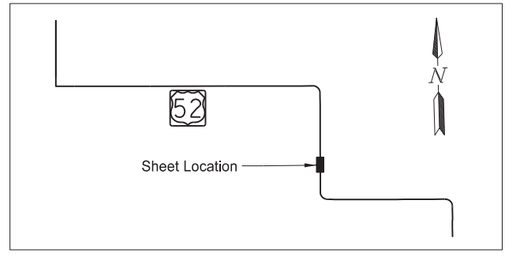
Sta 1285+00 to Sta 1325+00

6/15/2022 11:25:38 AM cfrising R:\project\70052000.034\design\Sheets\076_TE_016.dgn

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 17 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1325+00 to Sta 1365+00 - Lt | 7.03 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1325+00 to Sta 1365+00 - Lt | 7.03 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1325+00 to Sta 1331+30 - Lt (Protecting Wetland) | 650 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1325+00 to Sta 1331+30 - Lt (Protecting Wetland) | 650 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1331+67 to Sta 1332+00 - Lt (Leaving Project Limits | 55 | LF |
| | | Sta 1340+04 to Sta 1342+52 - Lt (Leaving R/W) | 250 | LF |
| | | Sta 1350+50 to Sta 1352+40 - Lt (Ditch Checks) | 50 | LF |
| | | Sta 1363+80 to Sta 1365+00 - Lt (Leaving R/W) | 120 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1331+67 to Sta 1332+00 (Leaving Project Limits) | 55 | LF |
| | | Sta 1340+04 to Sta 1342+52 (Leaving R/W) | 250 | LF |
| | | Sta 1363+80 to Sta 1365+00 - Lt (Leaving R/W) | 120 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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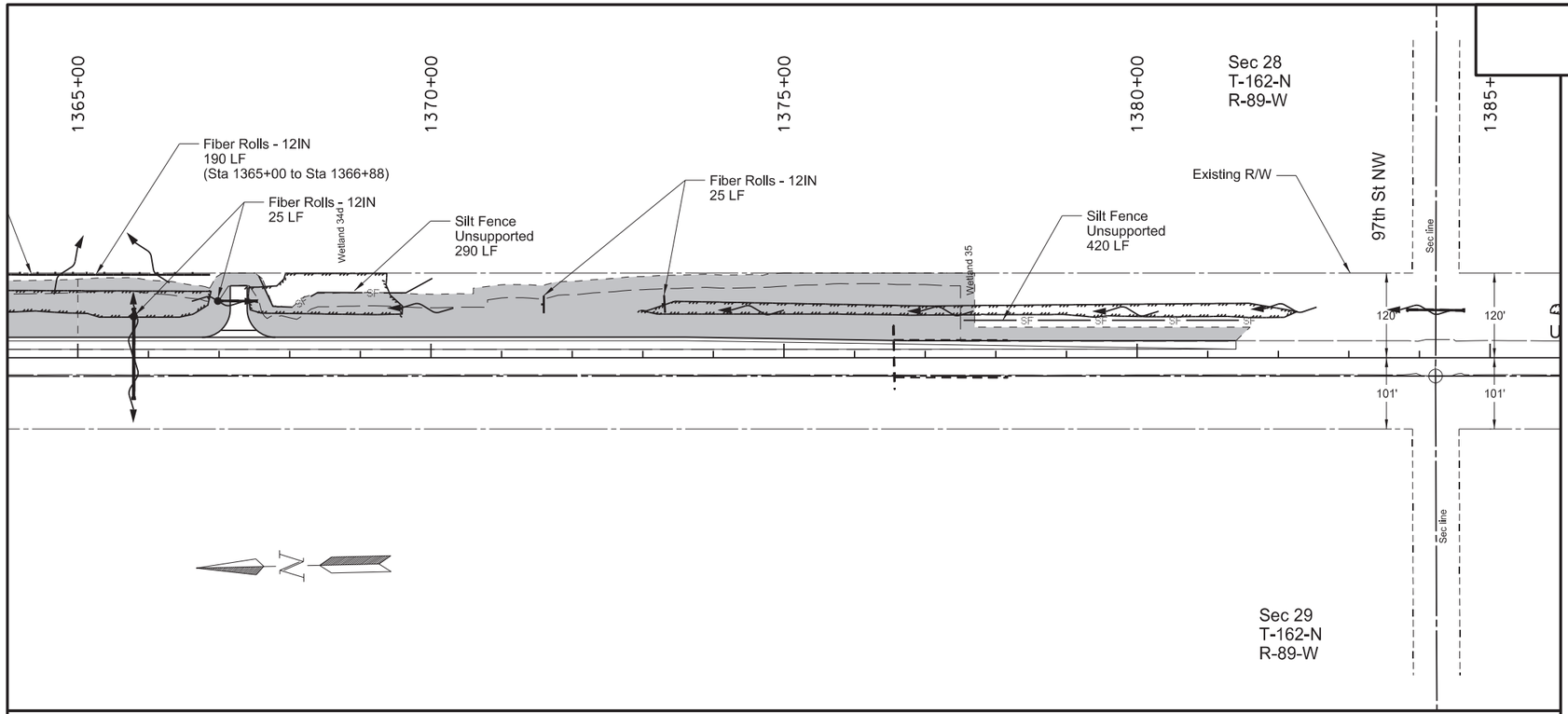
09/01/23

Temporary Erosion Control

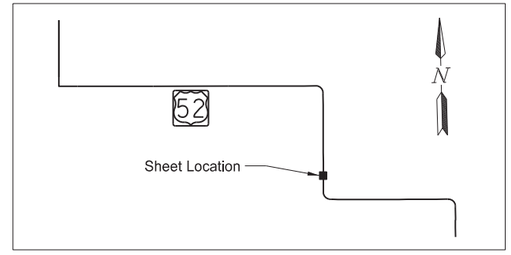
Passing Lane #5

Sta 1325+00 to Sta 1365+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 18 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1365+00 to Sta 1381+60 - Lt | 2.44 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1365+00 to Sta 1381+60 - Lt | 2.44 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1367+56 to Sta 1370+02 - Lt (Protecting Wetland) | 290 | LF |
| | | Sta 1377+62 to Sta 1381+75 - Lt (Protecting Wetland) | 420 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1367+56 to Sta 1370+02 - Lt (Protecting Wetland) | 290 | LF |
| | | Sta 1377+62 to Sta 1381+75 - Lt (Protecting Wetland) | 420 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1365+00 to Sta 1366+88 - Lt (Leaving R/W) | 190 | LF |
| | | Sta 1371+60 to Sta 1373+31 - Lt (Ditch Checks) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1365+00 to Sta 1366+88 - Lt (Leaving R/W) | 190 | LF |
| | | Sta 1371+60 to Sta 1373+31 - Lt (Ditch Checks) | 50 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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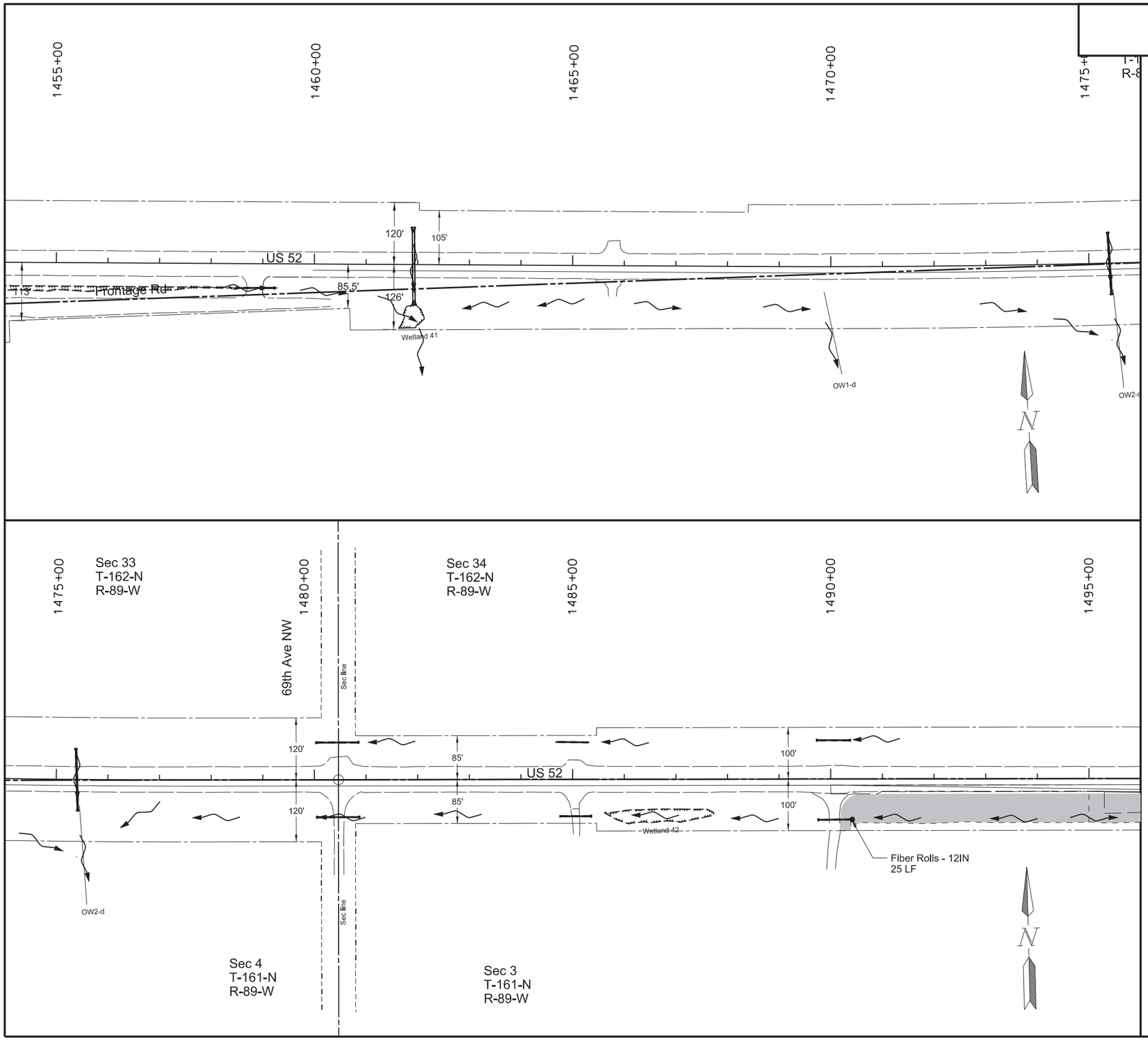
09/01/23

Temporary Erosion Control

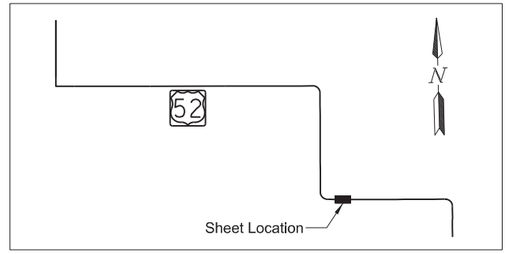
Passing Lane #5

Sta 1365+00 to Sta 1385+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 19 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1459+77 to Sta 1495+00 - Rt | 0.62 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1459+77 to Sta 1495+00 - Rt | 0.62 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 1 Locations (Protecting Culvert Inlet) | 25 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 1 Locations (Protecting Culvert Inlet) | 25 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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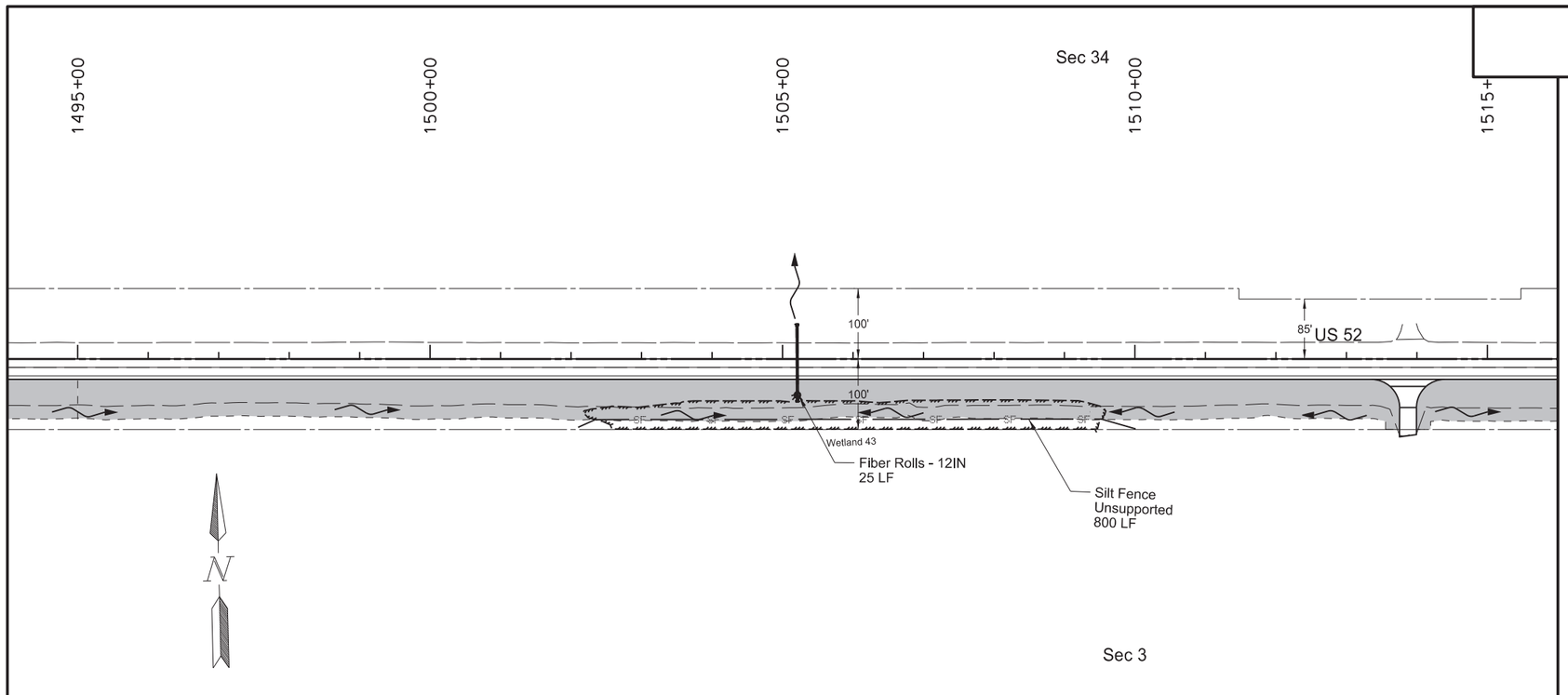
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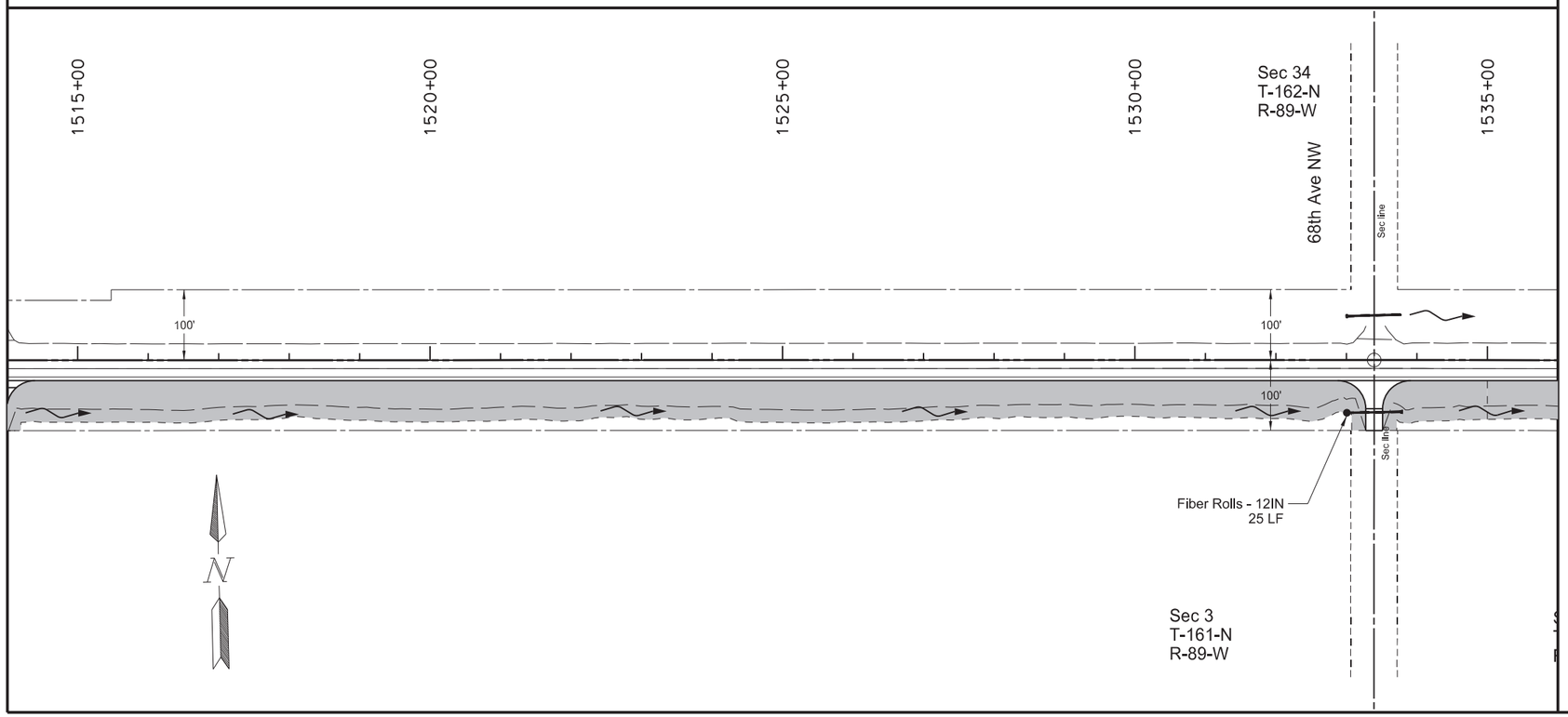
Temporary Erosion Control

Passing Lane #6

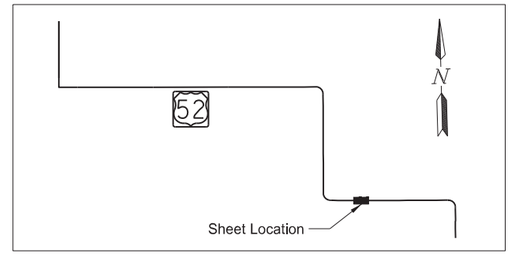
Sta 1455+00 to Sta 1495+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 20 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1495+00 to Sta 1535+00 - Rt | 5.06 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1495+00 to Sta 1535+00 - Rt | 5.06 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1502+09 to Sta 1510+01 - Rt (Protecting Wetland) | 800 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1502+09 to Sta 1510+01 - Rt (Protecting Wetland) | 800 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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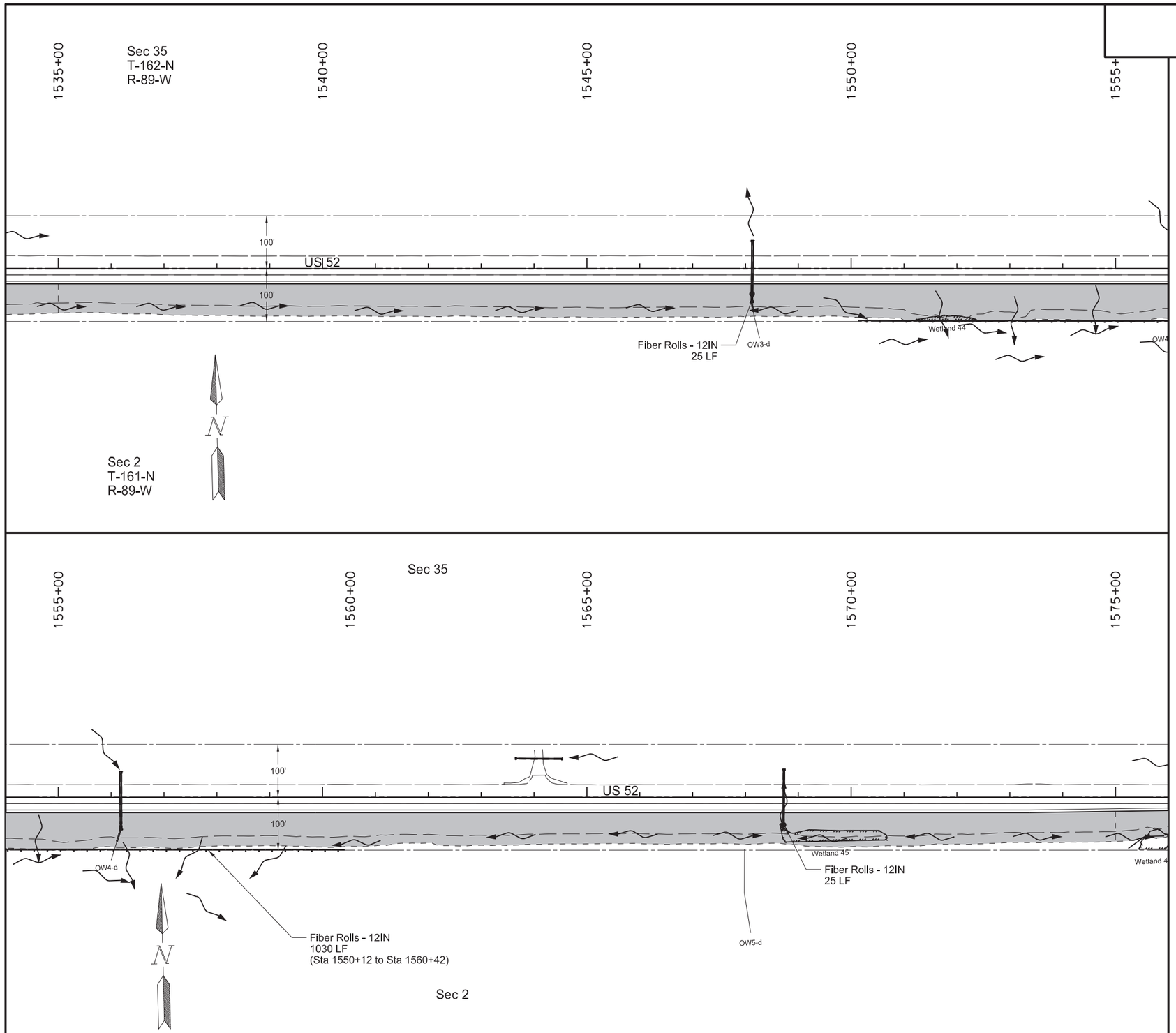
09/01/23

Temporary Erosion Control

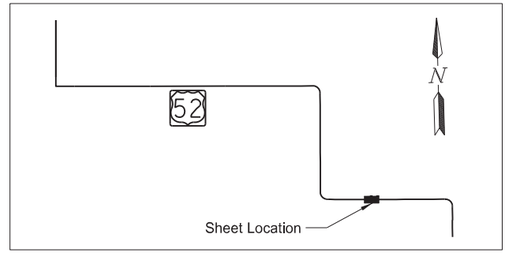
Passing Lane #6

Sta 1495+00 to Sta 1535+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 21 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1535+00 to Sta 1575+00 - Rt | 5.71 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1535+00 to Sta 1575+00 - Rt | 5.71 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1550+12 to 1560+42 - Rt (Leaving R/W) | 1030 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1550+12 to 1560+42 - Rt (Leaving R/W) | 1030 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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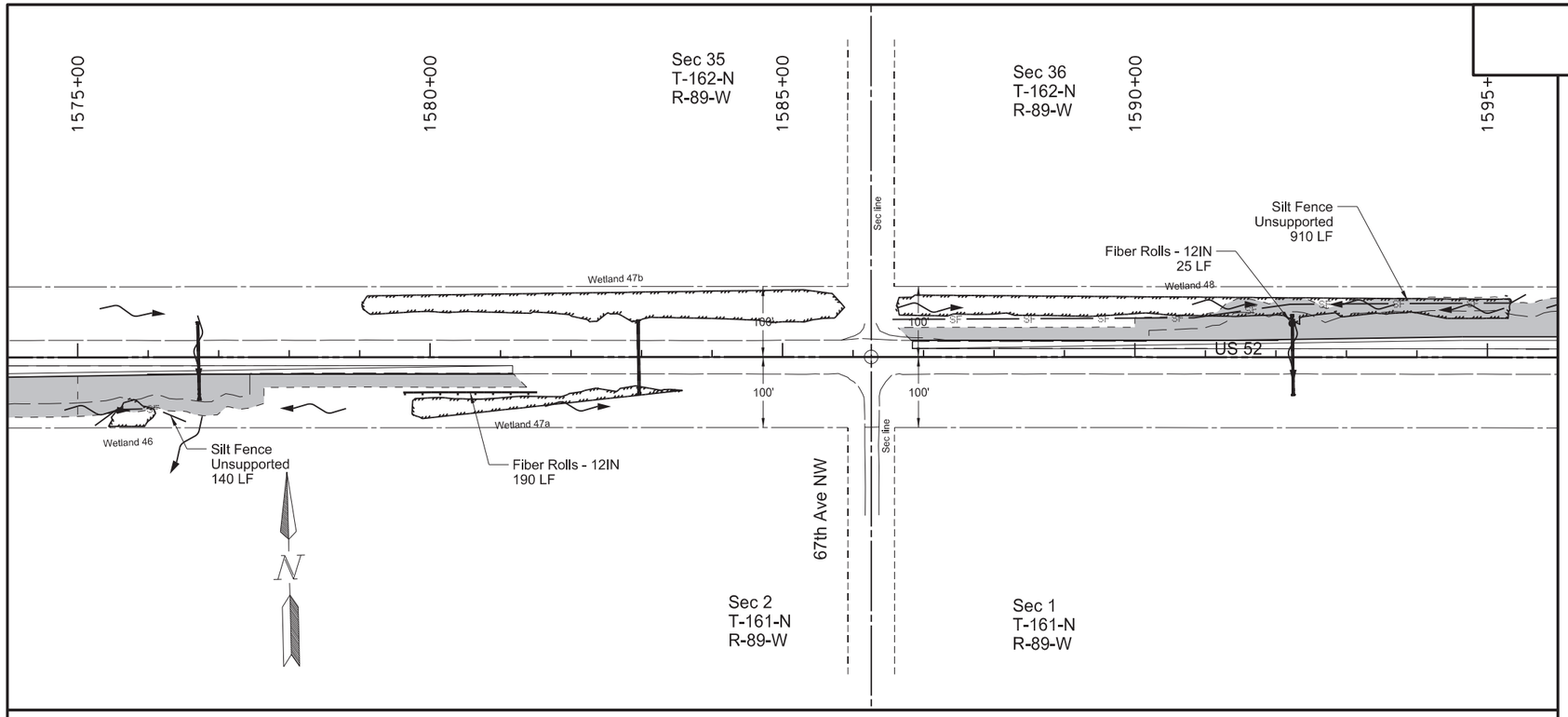
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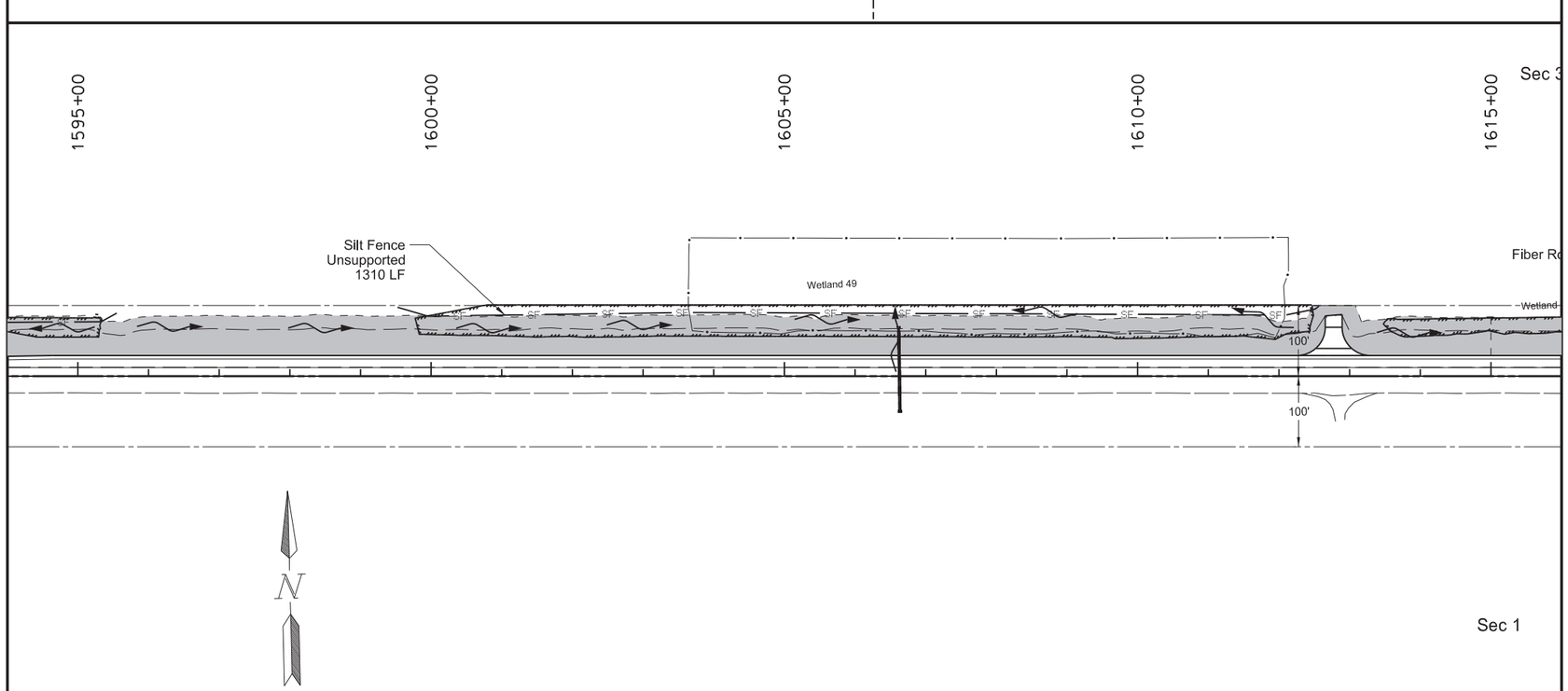
Temporary Erosion Control

Passing Lane #6

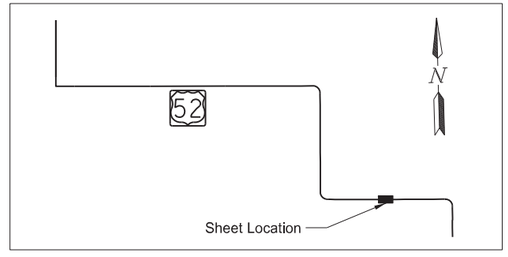
Sta 1535+00 to Sta 1575+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 22 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1575+00 to Sta 1581+37 - Rt | 0.47 | ACRE |
| | | Sta 1586+63 to Sta 1615+00 - Lt | 3.24 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1575+00 to Sta 1581+37 - Rt | 0.47 | ACRE |
| | | Sta 1586+63 to Sta 1615+00 - Lt | 3.24 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1575+24 to Sta 1576+54 - Rt (Protecting Wetland) | 140 | LF |
| | | Sta 1586+56 to Sta 1595+55 - Lt (Protecting Wetland) | 910 | LF |
| | | Sta 1599+52 to Sta 1612+57 - Lt (Protecting Wetland) | 1310 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1575+24 to Sta 1576+54 - Rt (Protecting Wetland) | 140 | LF |
| | | Sta 1586+56 to Sta 1595+55 - Lt (Protecting Wetland) | 910 | LF |
| | | Sta 1599+52 to Sta 1612+57 - Lt (Protecting Wetland) | 1310 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| | | Sta 1579+61 to Sta 1581+52 - Rt (Protecting Wetland) | 190 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| | | Sta 1579+61 to Sta 1581+52 - Rt (Protecting Wetland) | 190 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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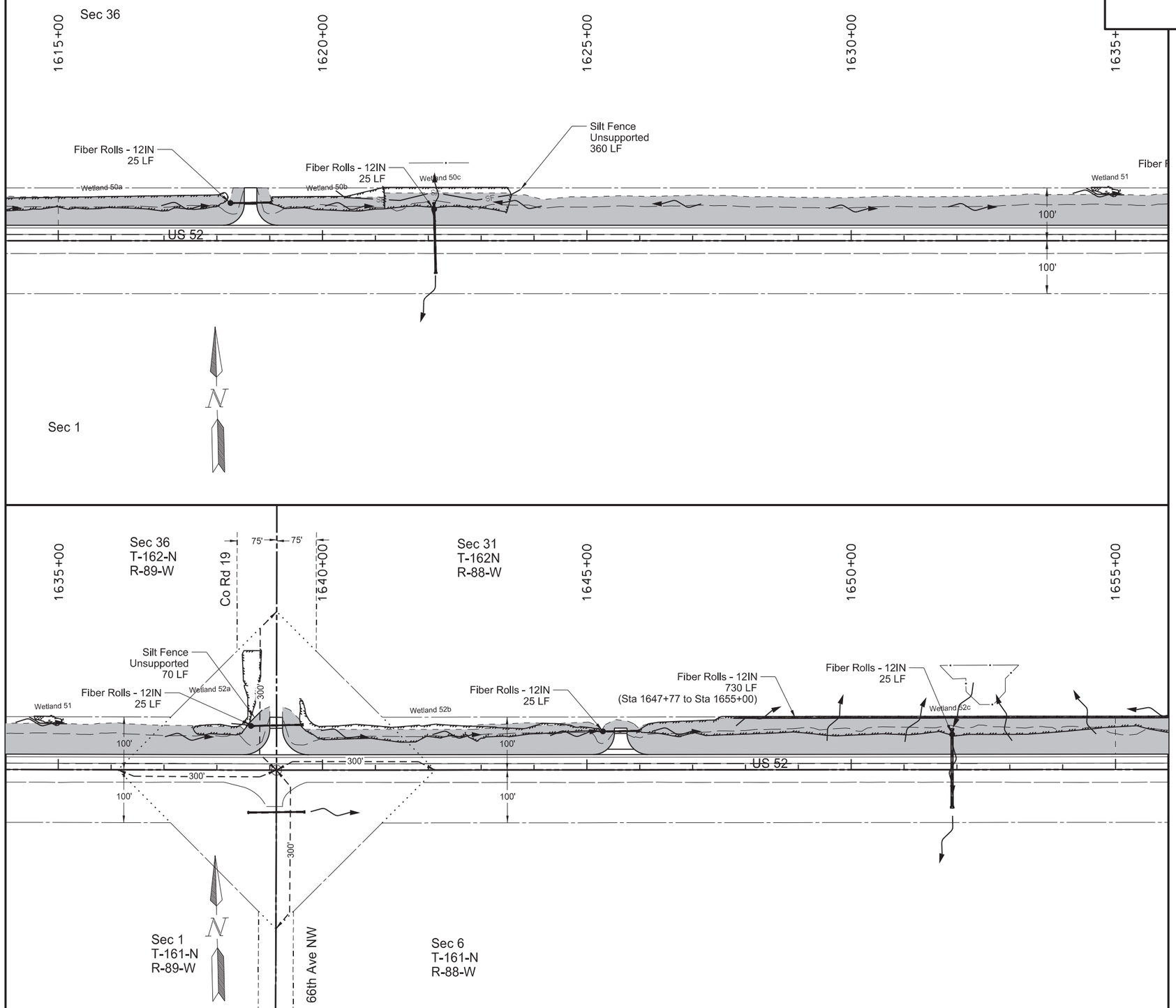
09/01/23

Temporary Erosion Control

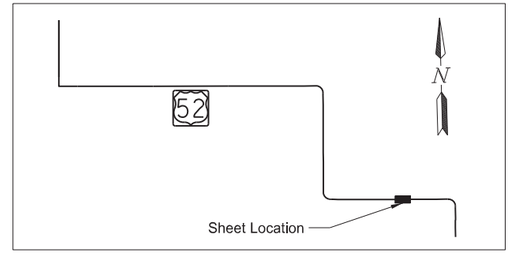
Passing Lane #6 and #7

Sta 1575+00 to Sta 1615+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 23 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1615+00 to Sta 1655+00 - Lt | 5.24 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1615+00 to Sta 1655+00 - Lt | 5.24 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1620+25 to Sta 1623+75 - Lt (Protecting Wetland) | 360 | LF |
| | | Sta 1638+27 to Sta 1638+86 - Lt (Protecting Wetland) | 70 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1620+25 to Sta 1623+75 - Lt (Protecting Wetland) | 360 | LF |
| | | Sta 1638+27 to Sta 1638+86 - Lt (Protecting Wetland) | 70 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 5 Locations (Protecting Culvert Inlet) | 125 | LF |
| | | Sta 1647+77 to Sta 1655+00 - Lt (Leaving R/W) | 730 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 5 Locations (Protecting Culvert Inlet) | 125 | LF |
| | | Sta 1647+77 to Sta 1655+00 - Lt (Leaving R/W) | 730 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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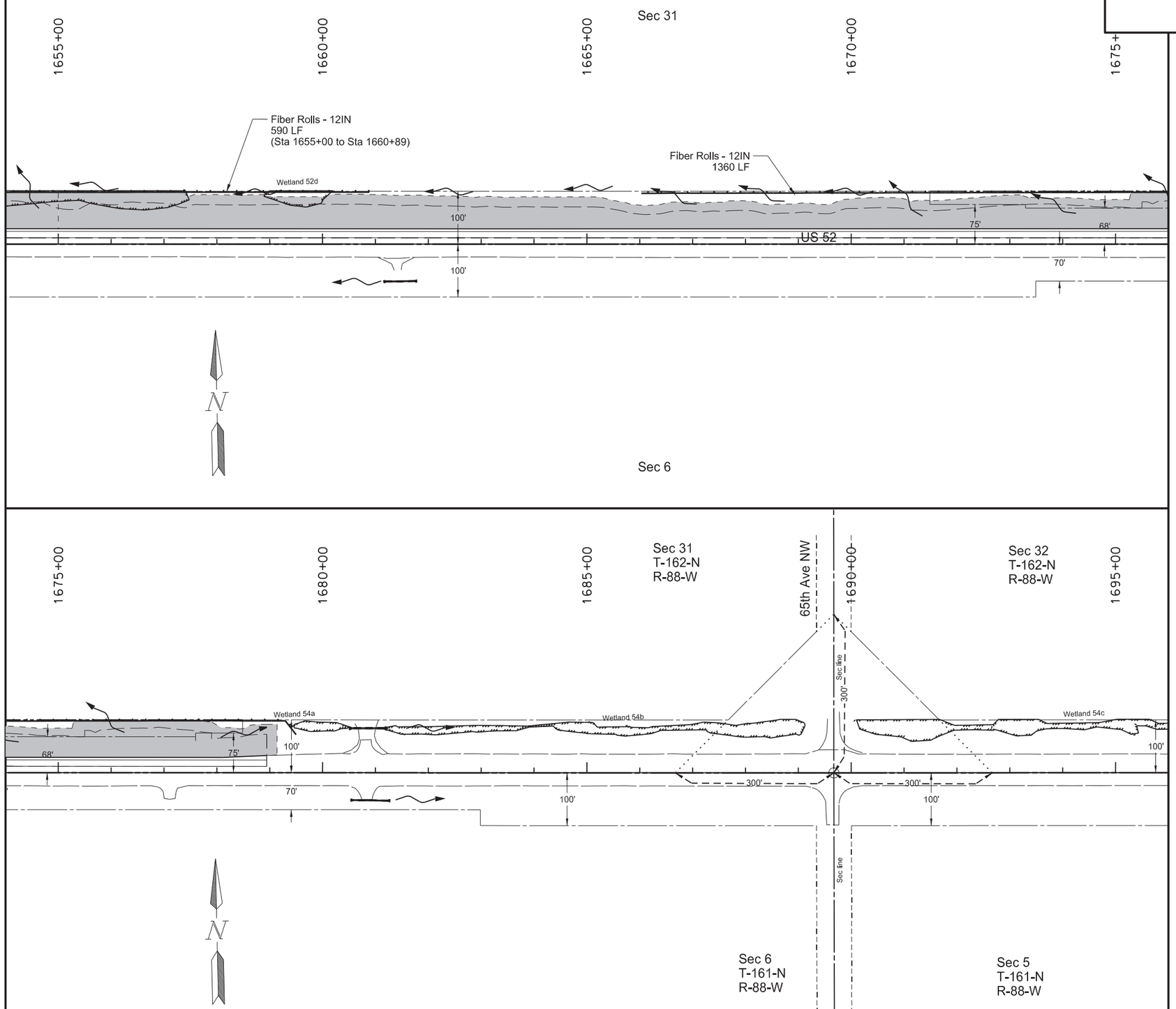
09/01/23

Temporary Erosion Control

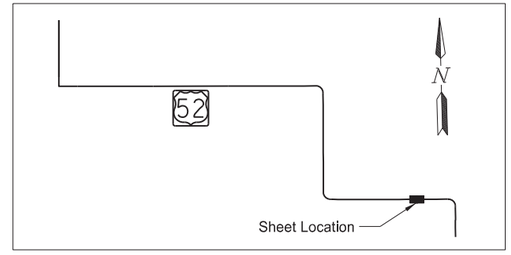
Passing Lane #7

Sta 1615+00 to Sta 1655+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 24 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1655+00 to Sta 1679+14 - Lt | 3.33 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1655+00 to Sta 1679+14 - Lt | 3.33 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1655+00 to Sta 1660+89 - Lt (Leaving R/W) | 590 | LF |
| | | Sta 1666+03to Sta 1679+50 - Lt | 1360 | LF |
| | | (Leaving R/W & Project Limits) | | |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | Sta 1655+00 to Sta 1660+89 - Lt (Leaving R/W) | 590 | LF |
| | | Sta 1666+03to Sta 1679+50 - Lt | 1360 | LF |
| | | (Leaving R/W & Project Limits) | | |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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NORTH DAKOTA

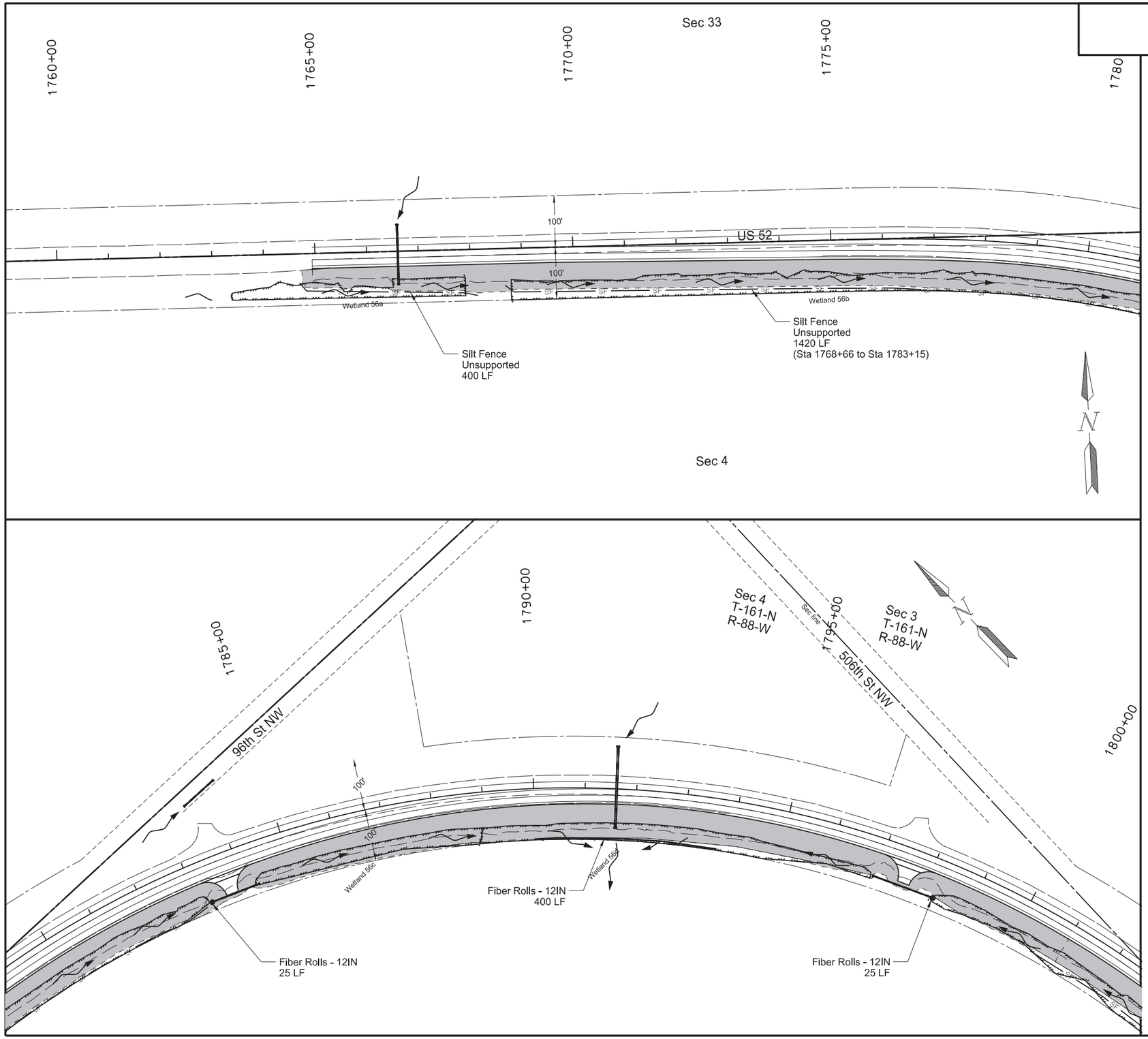
09/01/23

Temporary Erosion Control

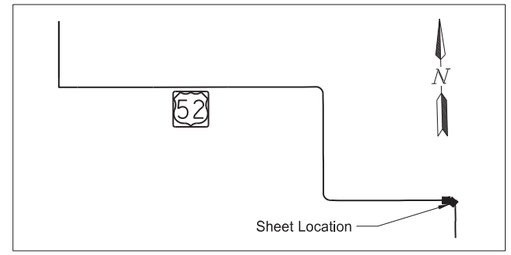
Passing Lane #7

Sta 1655+00 to Sta 1695+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 25 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1764+74 to Sta 1801+00 - Rt | 4.33 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1764+74 to Sta 1801+00 - Rt | 4.33 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1764+69 to Sta 1768+14 - Rt (Protecting Wetland) | 400 | LF |
| | | Sta 1768+64 to Sta 1783+15 - Rt (Protecting Wetland) | 1420 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1764+69 to Sta 1768+14 - Rt (Protecting Wetland) | 400 | LF |
| | | Sta 1768+64 to Sta 1783+15 - Rt (Protecting Wetland) | 1420 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1789+98 to Sta 1793+71 - Rt (Leaving R/W) | 400 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 2 Locations (Protecting Culvert Inlet) | 50 | LF |
| | | Sta 1789+98 to Sta 1793+71 - Rt (Leaving R/W) | 400 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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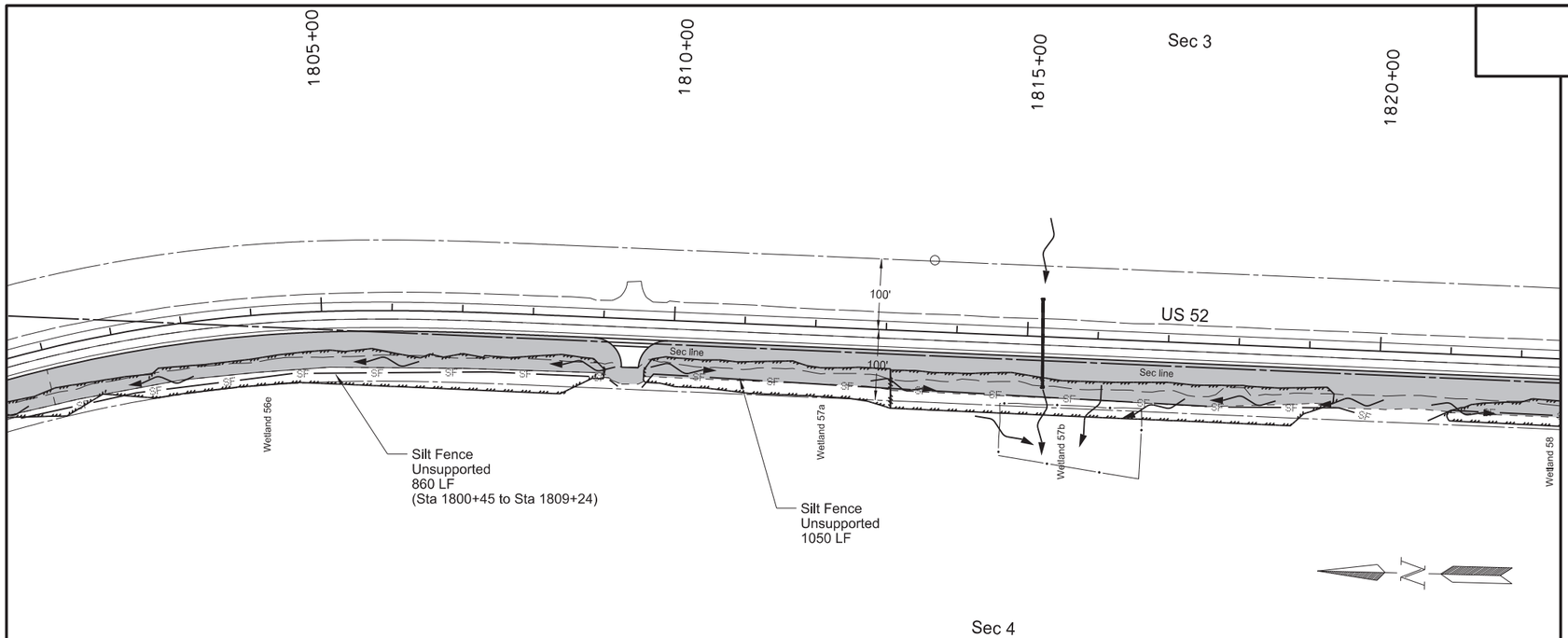
09/01/23

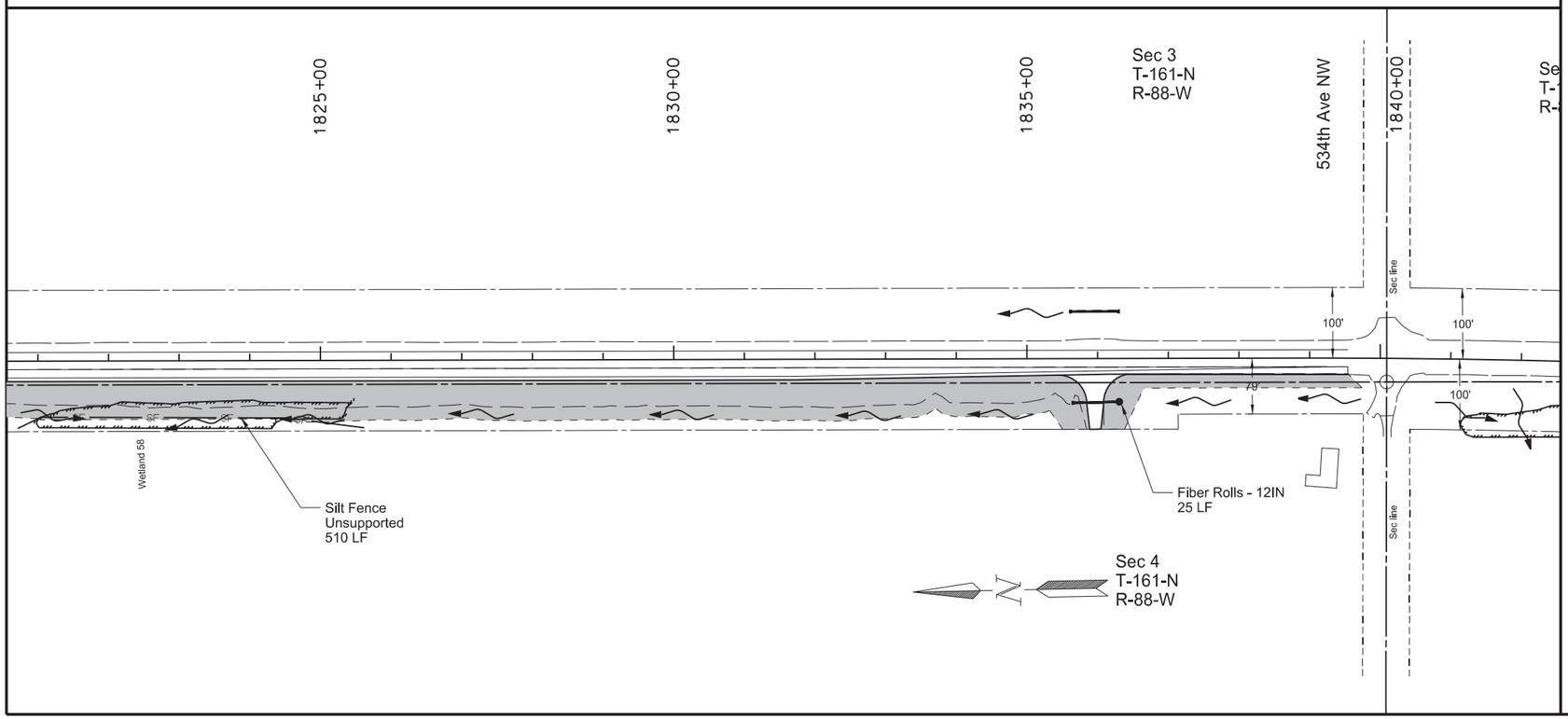
Temporary Erosion Control

Passing Lane #8

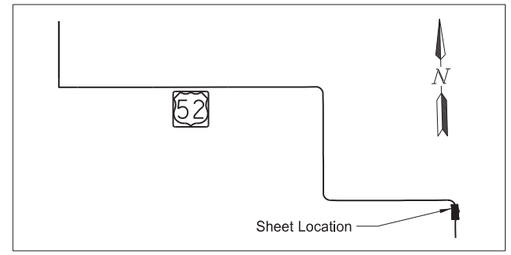
Sta 1760+00 to Sta 1801+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 76 | 26 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 1801+00 to Sta 1839+75 - Rt | 4.52 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1801+00 to Sta 1839+75 - Rt | 4.52 | ACRE |
| 260 | 0100 | SILT FENCE UNSUPPORTED | | |
| | | Sta 1800+45 to Sta 1809+24 - Rt (Protecting Wetland) | 860 | LF |
| | | Sta 1809+57 to Sta 1819+90 - Rt (Protecting Wetland) | 1050 | LF |
| | | Sta 1820+71 to Sta 1825+75 - Rt (Protecting Wetland) | 510 | LF |
| 260 | 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | | Sta 1800+45 to Sta 1809+24 - Rt (Protecting Wetland) | 860 | LF |
| | | Sta 1809+57 to Sta 1819+90 - Rt (Protecting Wetland) | 1050 | LF |
| | | Sta 1820+71 to Sta 1825+75 - Rt (Protecting Wetland) | 510 | LF |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |
| 261 | 0113 | REMOVE FIBER ROLLS 12IN | | |
| | | 1 Location (Protecting Culvert Inlet) | 25 | LF |




LEGEND

SF Silt Fence - Unsupported

Fiber Rolls - 12IN

Temporary Cover Crop & Soil Stabilization

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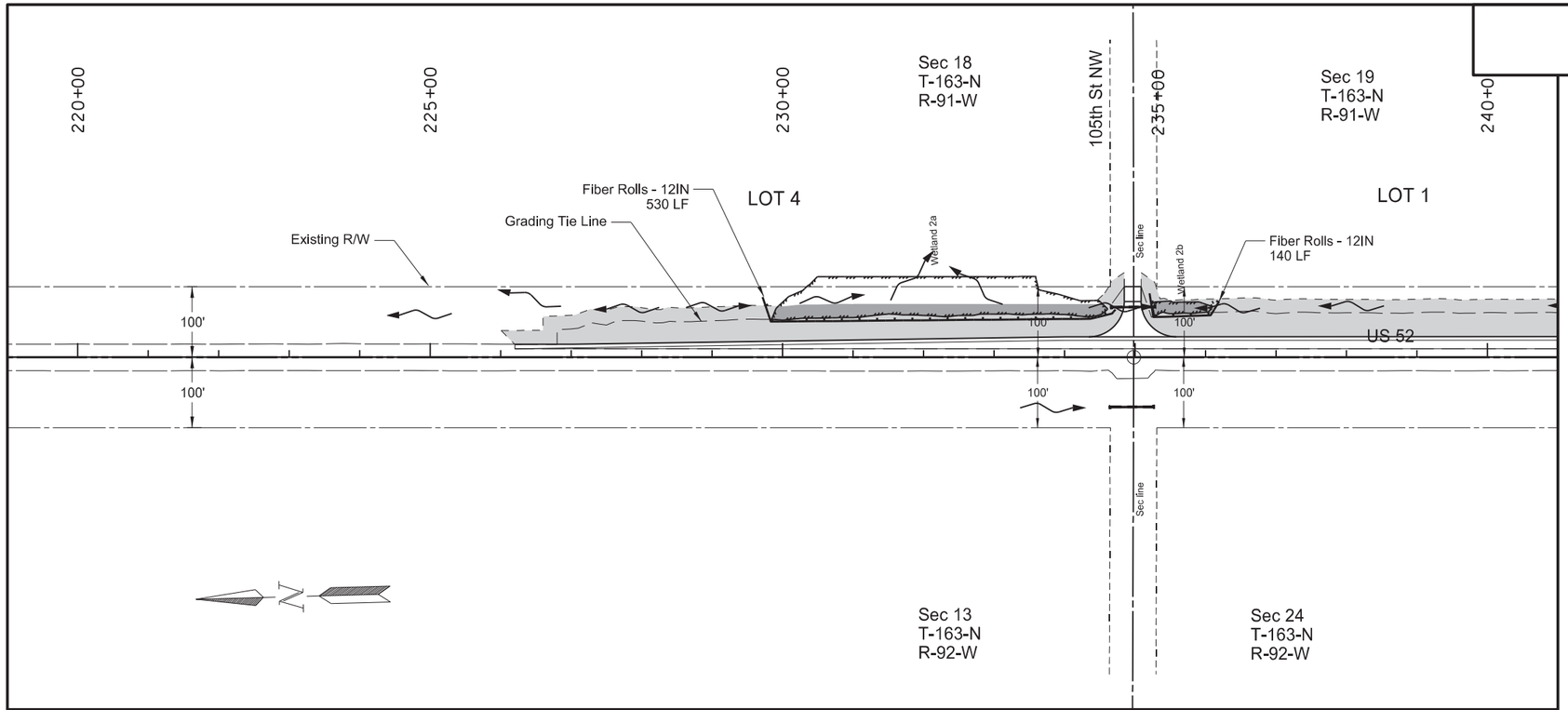
09/01/23

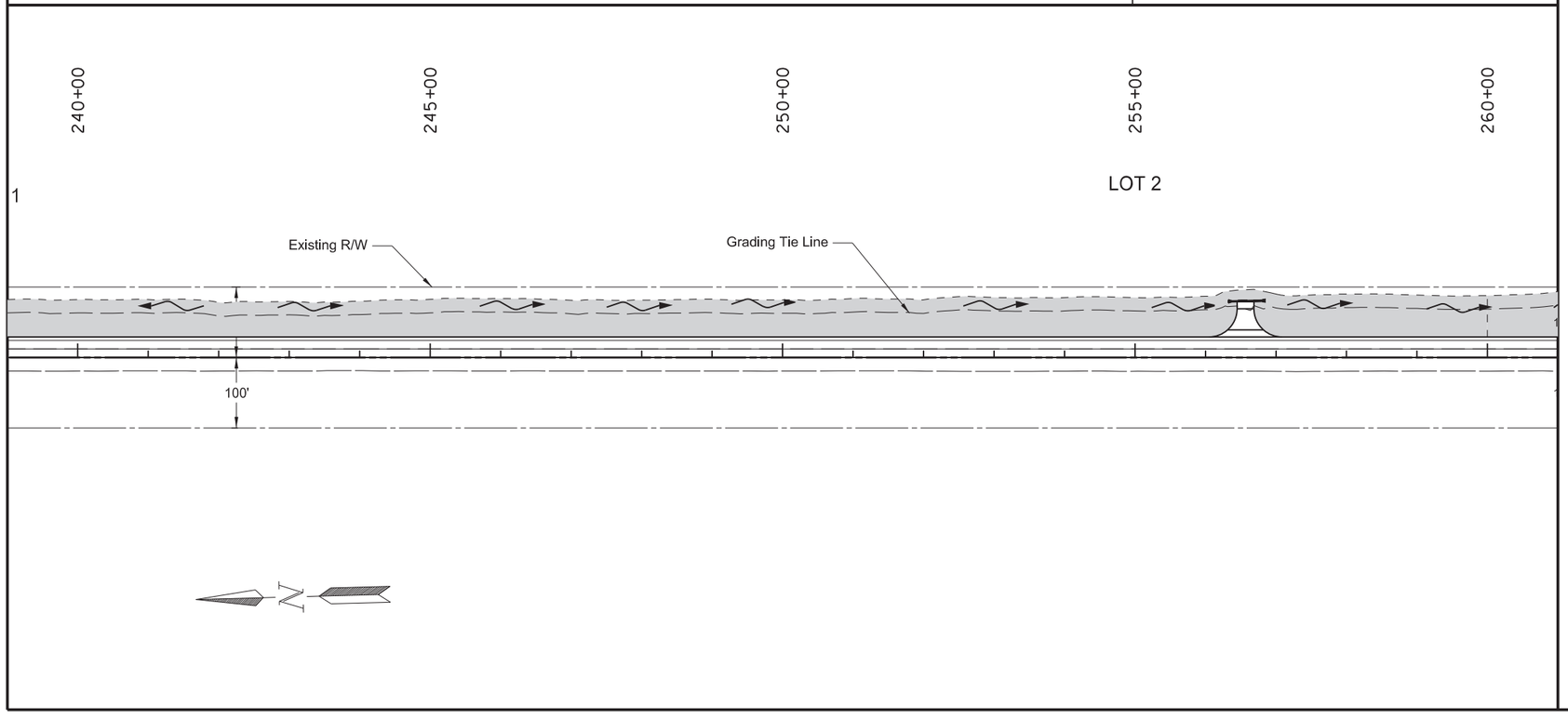
Temporary Erosion Control

Passing Lane #8

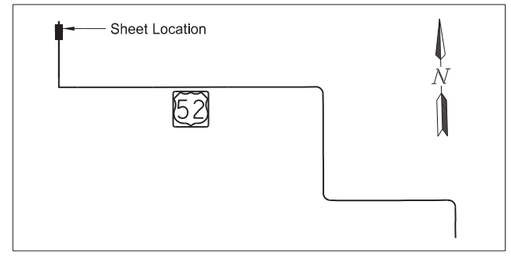
Sta 1801+00 to Sta 1842+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 1 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 226+00 to Sta 260+00 - Lt | 3.83 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 226+00 to Sta 260+00 - Lt | 0.21 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 226+00 to Sta 260+00 - Lt | 4.04 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 229+71 to Sta 234+72 - Lt (Protecting Wetland) | 540 | LF |
| | | Sta 235+20 to Sta 236+19 - Lt (Protecting Wetland) | 140 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

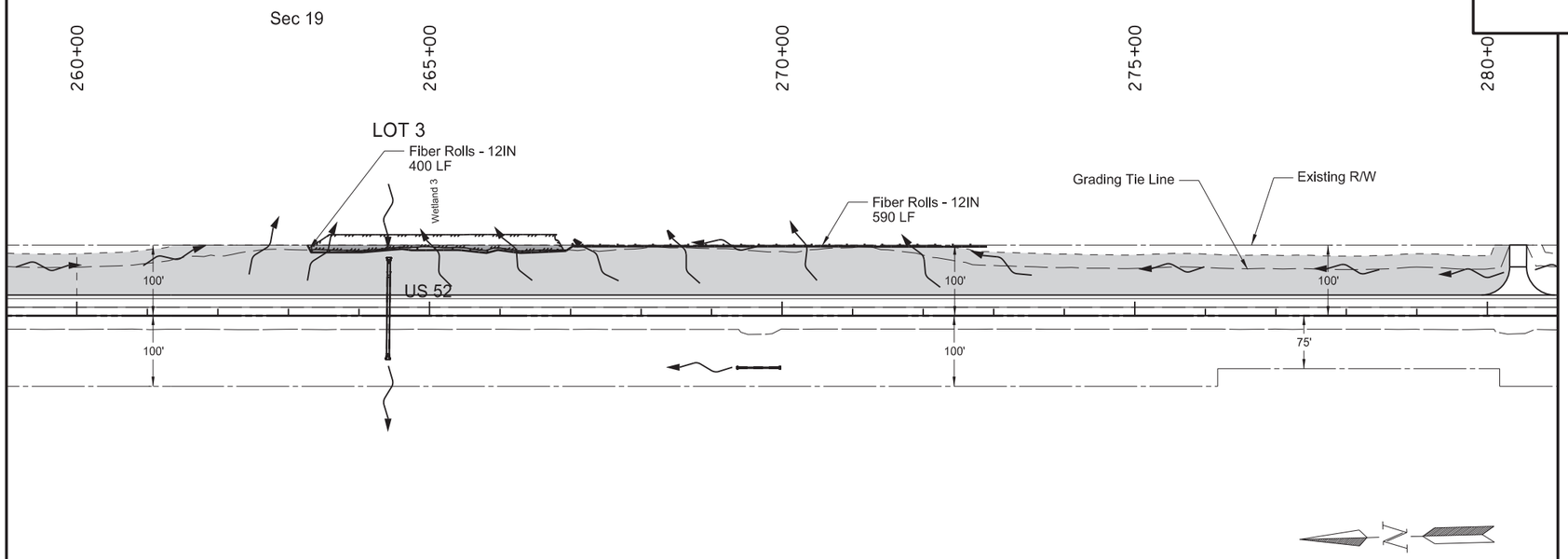
CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

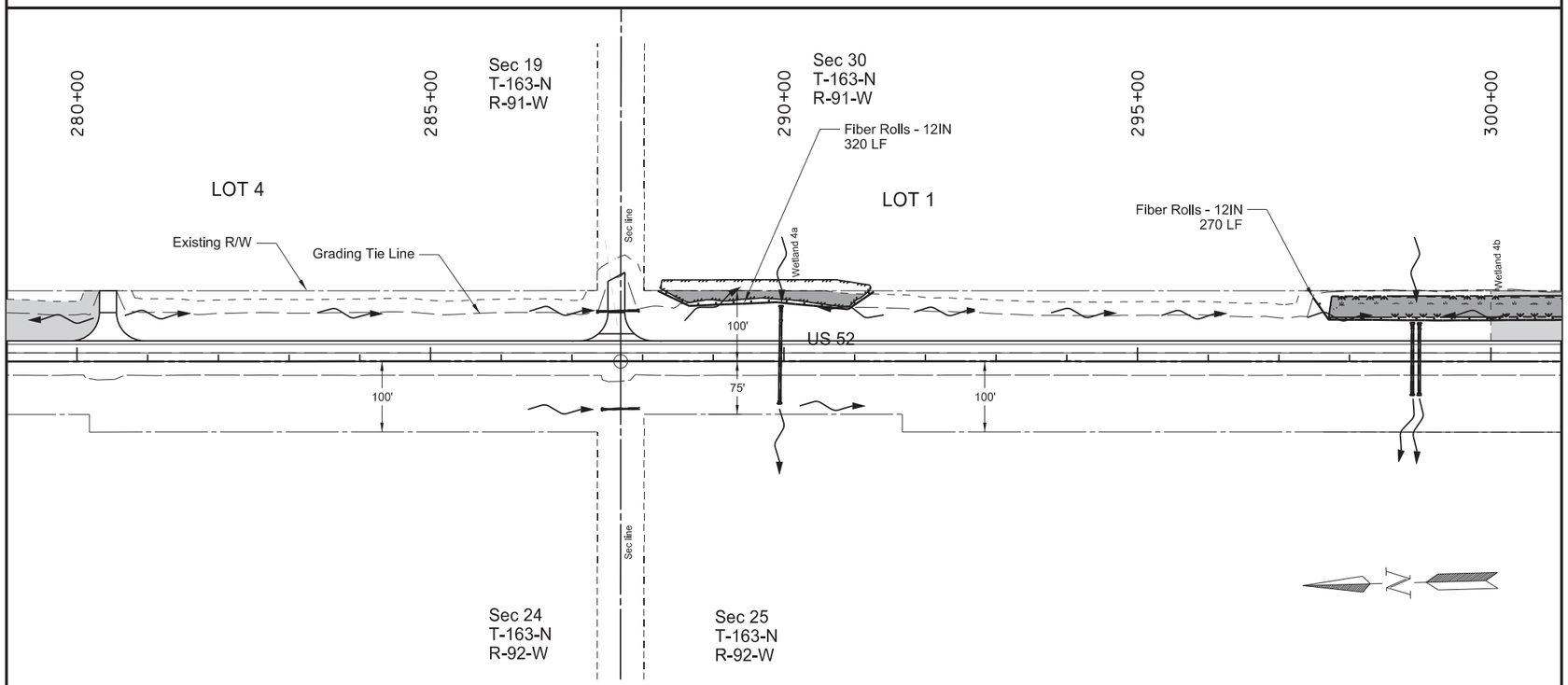
Permanent Erosion Control

Passing Lane #1

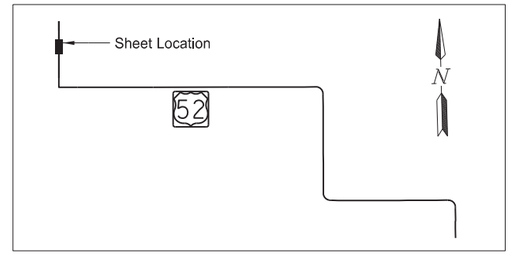
Sta 220+00 to Sta 260+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 2 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 260+00 to Sta 300+00 - Lt | 5.55 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 260+00 to Sta 300+00 - Lt | 0.29 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 260+00 to Sta 300+00 - Lt | 5.84 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 263+26 to Sta 267+05 - Lt (Protecting Wetland) | 400 | LF |
| | | Sta 267+04 to Sta 272+91 - Lt (Leaving R/W) | 590 | LF |
| | | Sta 288+21 to Sta 291+28 - Lt (Protecting Wetland) | 320 | LF |
| | | Sta 297+48 to Sta 300+00 - Lt (Protecting Wetland) | 270 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

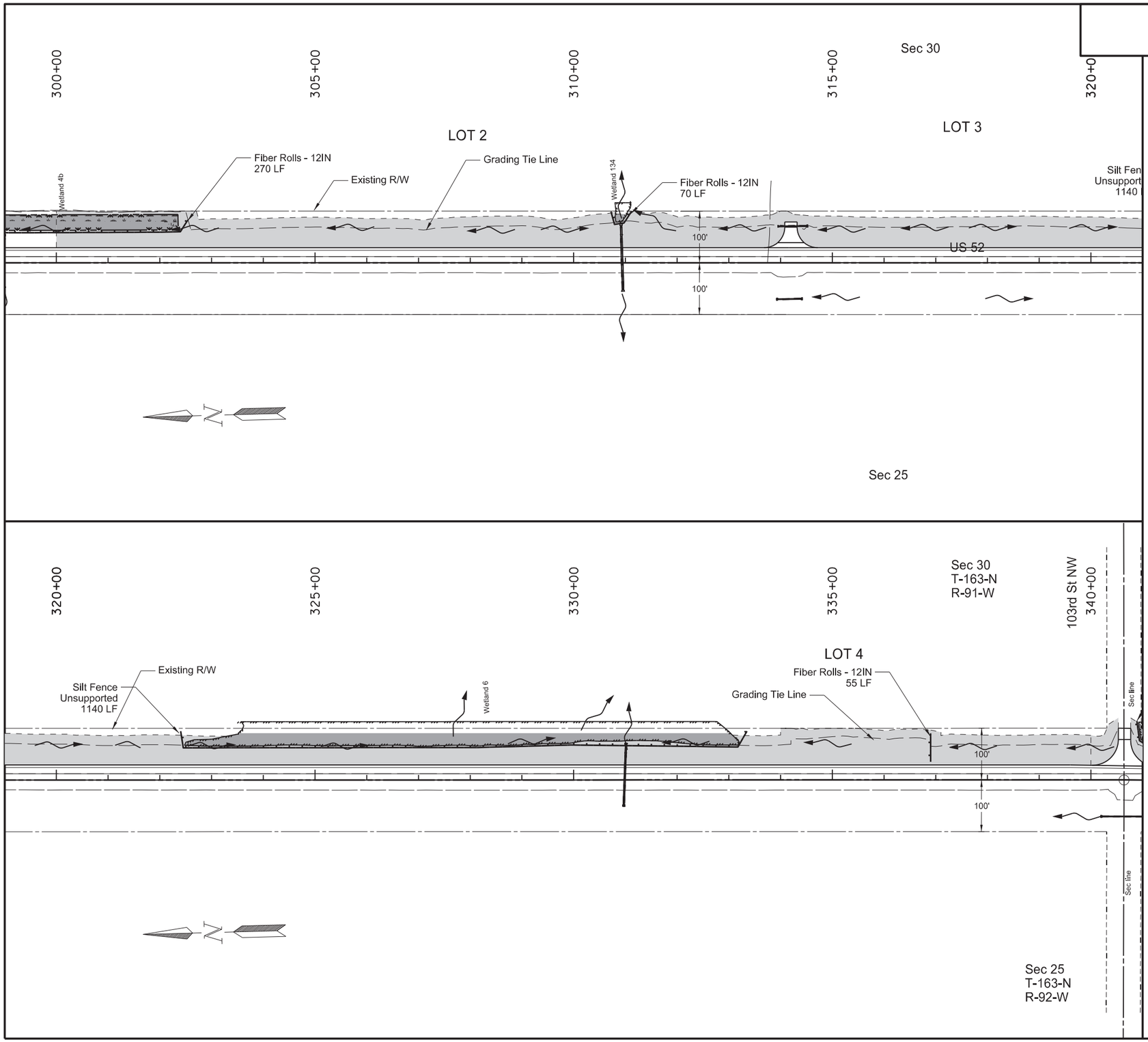
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Permanent Erosion Control

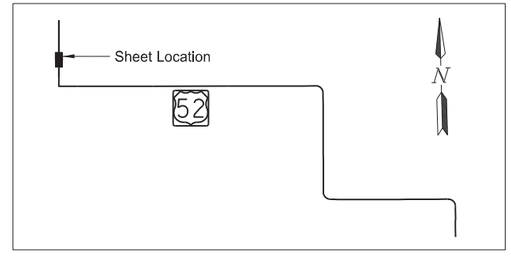
Passing Lane #1

Sta 260+00 to Sta 300+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 3 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 300+00 to Sta 340+00 - Lt | 4.91 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 300+00 to Sta 340+00 - Lt | 0.68 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 300+00 to Sta 340+00 - Lt | 5.59 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 300+00 to Sta 302+54 - Lt (Protecting Wetland) | 270 | LF |
| | | Sta 310+72 to Sta 311+12 - Lt (Protecting Wetland) | 70 | LF |
| | | Sta 322+40 to Sta 333+35 - Lt (Protecting Wetland) | 1140 | LF |
| | | Sta 336+90 - Lt (Ditch Check) | 55 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

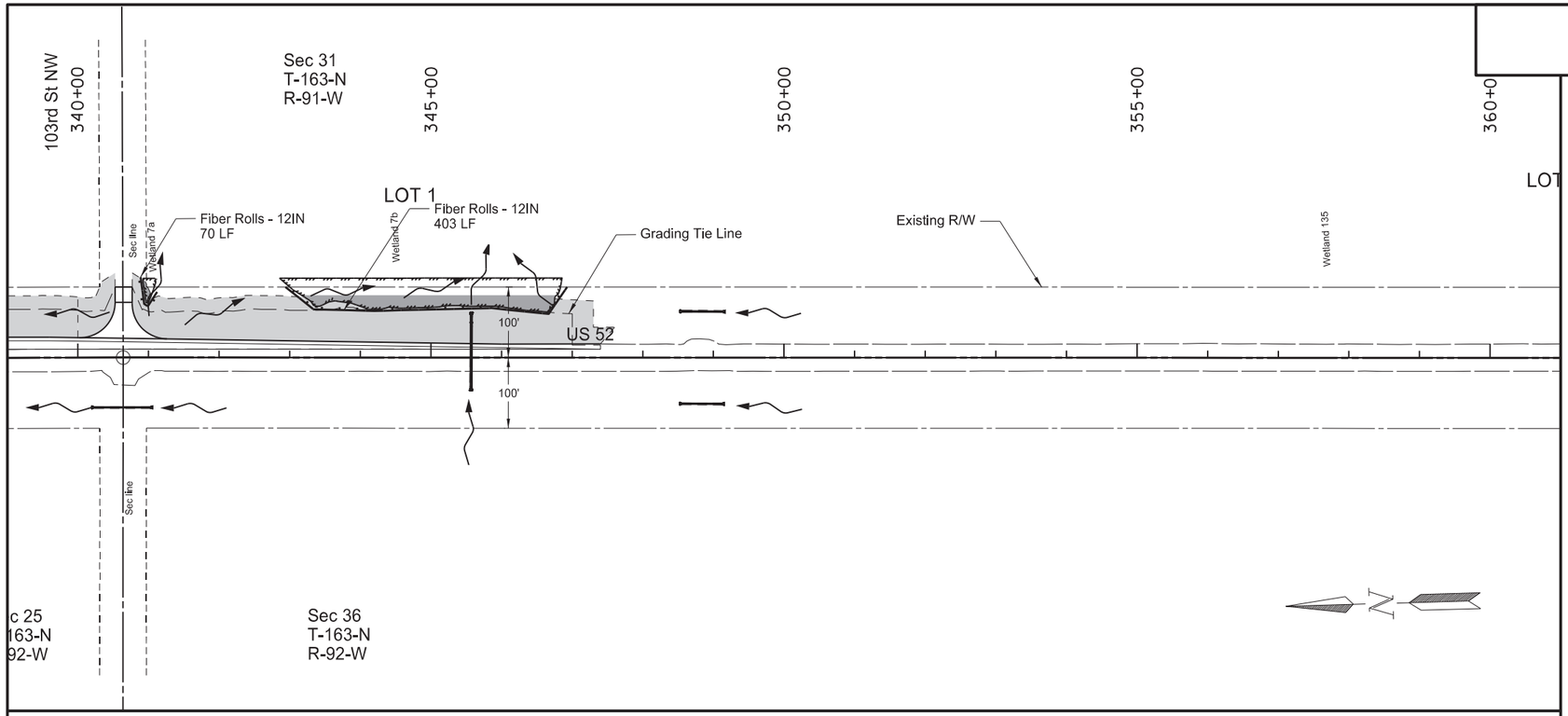
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ENGINEER
NORTH DAKOTA
09/01/23

Permanent Erosion Control

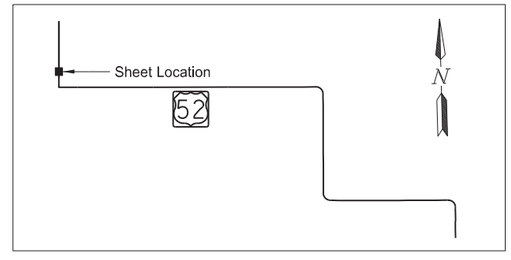
Passing Lane #1

Sta 300+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 4 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 340+00 to Sta 347+60 - Lt | 0.91 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 340+00 to Sta 347+60 - Lt | 0.14 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 340+00 to Sta 347+60 - Lt | 1.05 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 340+88 to Sta 341+13 - Lt (Protecting Wetland) | 70 | LF |
| | | Sta 342+93 to Sta 346+93 - Lt (Protecting Wetland) | 430 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

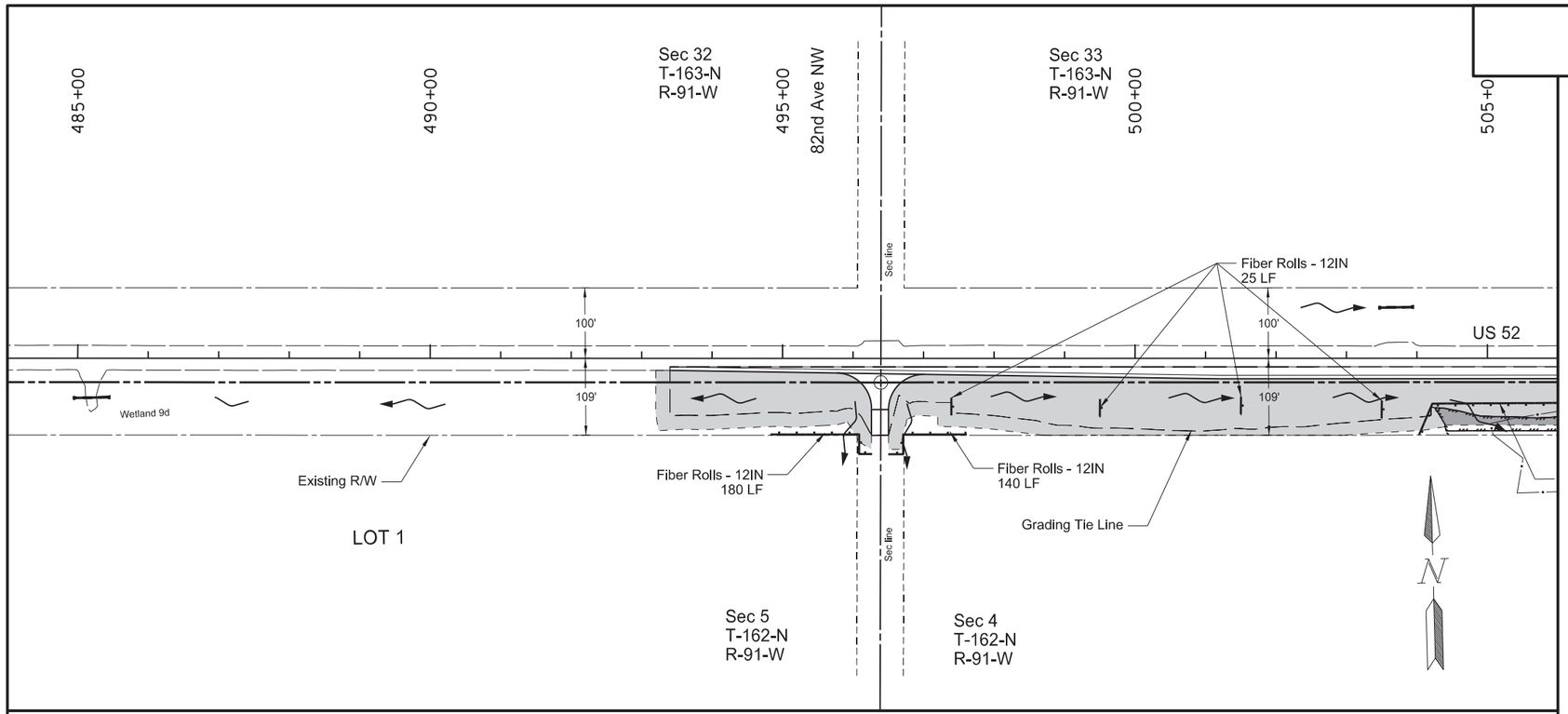
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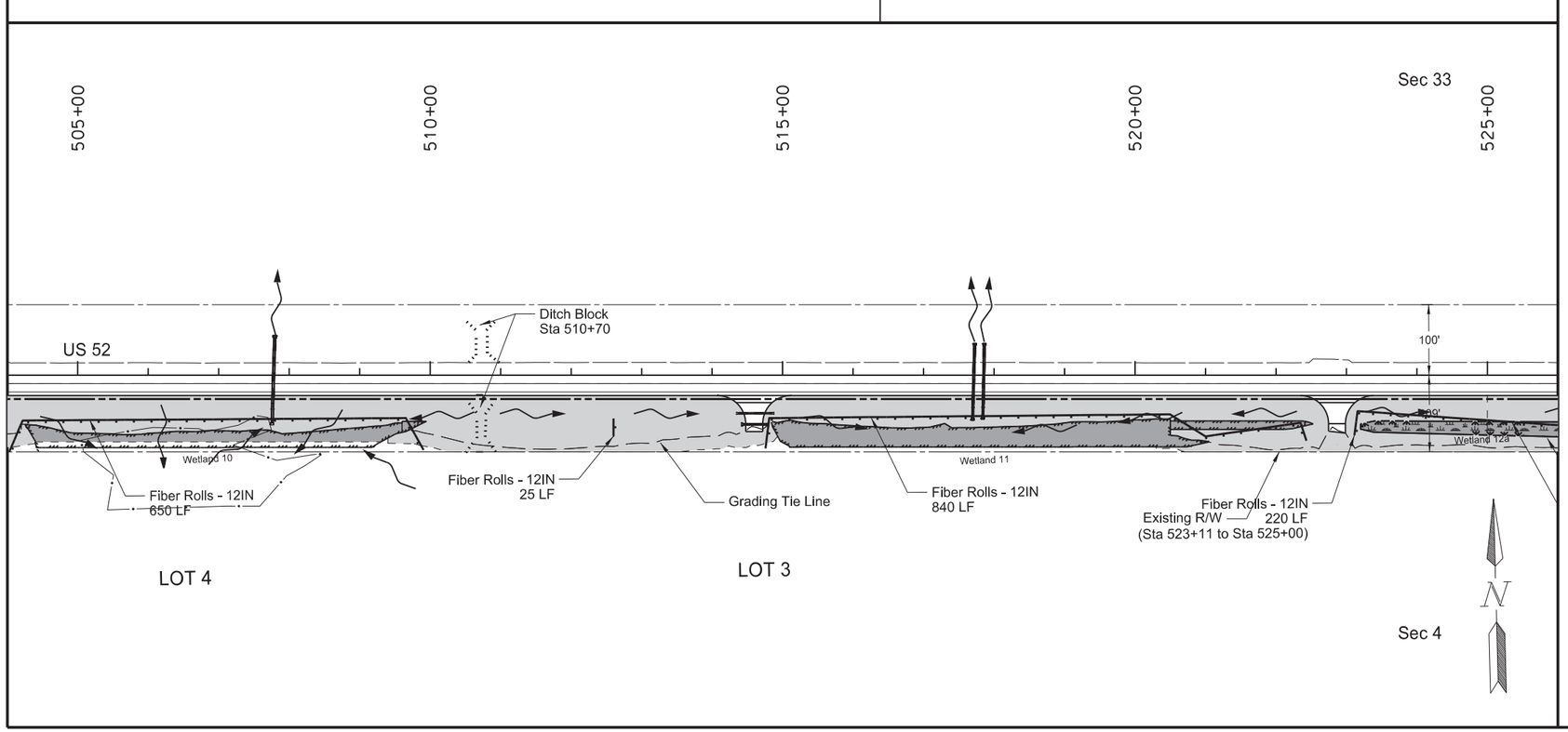
Permanent Erosion Control

Passing Lane #1

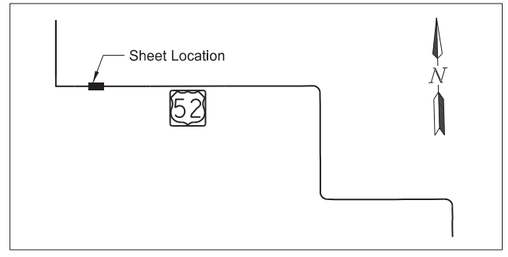
Sta 340+00 to Sta 360+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 5 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 493+20 to Sta 525+00 - Rt | 4.63 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 493+20 to Sta 525+00 - Rt | 0.74 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 493+20 to Sta 525+00 - Rt | 5.37 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 494+82 to Sta 496+27 - Rt (Leaving R/W) | 180 | LF |
| | | Sta 496+49 to Sta 497+62 - Rt (Leaving R/W) | 140 | LF |
| | | Sta 497+39 to Sta 503+50 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 504+02 to Sta 509+91 - Rt (Protecting Wetland) | 650 | LF |
| | | Sta 512+60 - Rt (Ditch Check) | 25 | LF |
| | | Sta 515 to Sta 522+44 - Rt (Protecting Wetlands) | 840 | LF |
| | | Sta 523+11 to Sta 525+00 - Rt (Protecting Wetlands) | 220 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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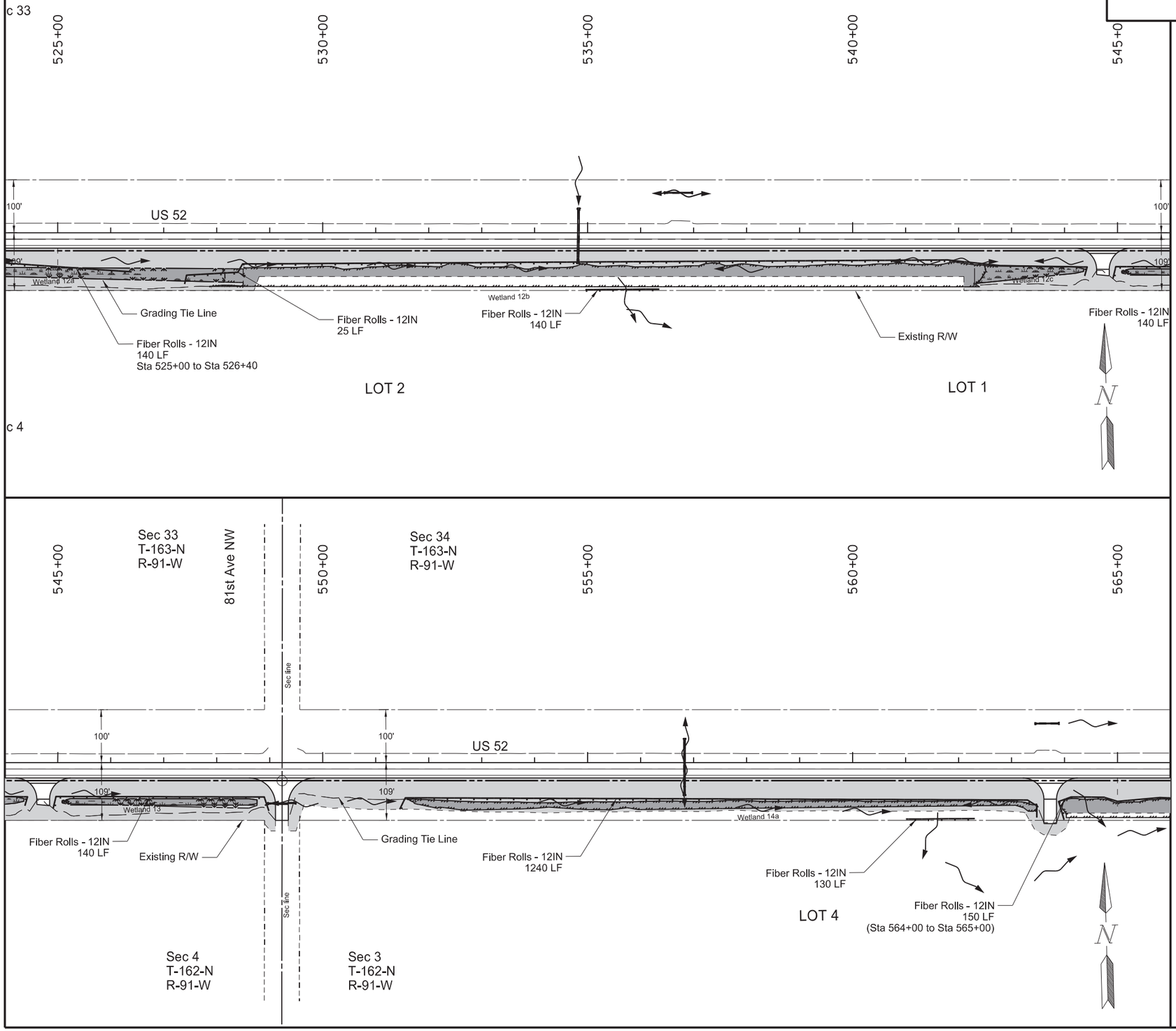
09/01/23

Permanent Erosion Control

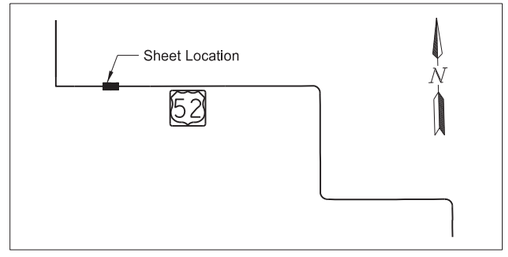
Passing Lane #2

Sta 485+00 to Sta 525+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 6 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 525+00 to Sta 565+00 - Rt | 4.37 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 525+00 to Sta 565+00 - Rt | 1.44 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 525+00 to Sta 565+00 - Rt | 5.81 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 525+00 to Sta 526+40 - Rt (Protecting Wetlands) | 1750 | LF |
| | | Sta 534+95 to Sta 536+36 - Rt (Leaving R/W) | 140 | LF |
| | | Sta 543+95 to Sta 545+40 - Rt (Ditch Check) | 50 | LF |
| | | Sta 551+45 to Sta 563+48 - Rt (Protecting Wetlands) | 1240 | LF |
| | | Sta 561+00 to Sta 562+30 - Rt (Leaving R/W) | 130 | LF |
| | | Sta 564+00 to Sta 565+00 - Rt (Protecting Wetlands) | 150 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

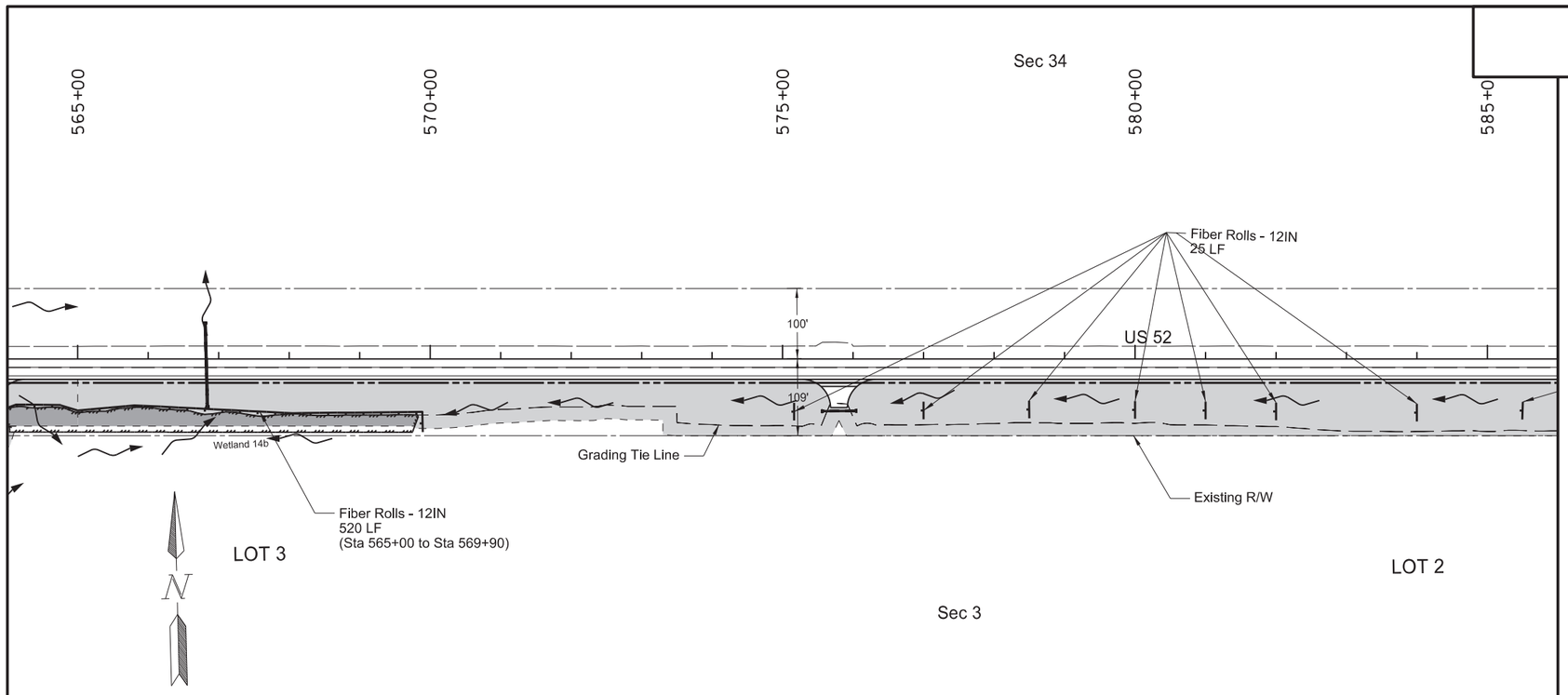
CHAD FRISINGER
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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

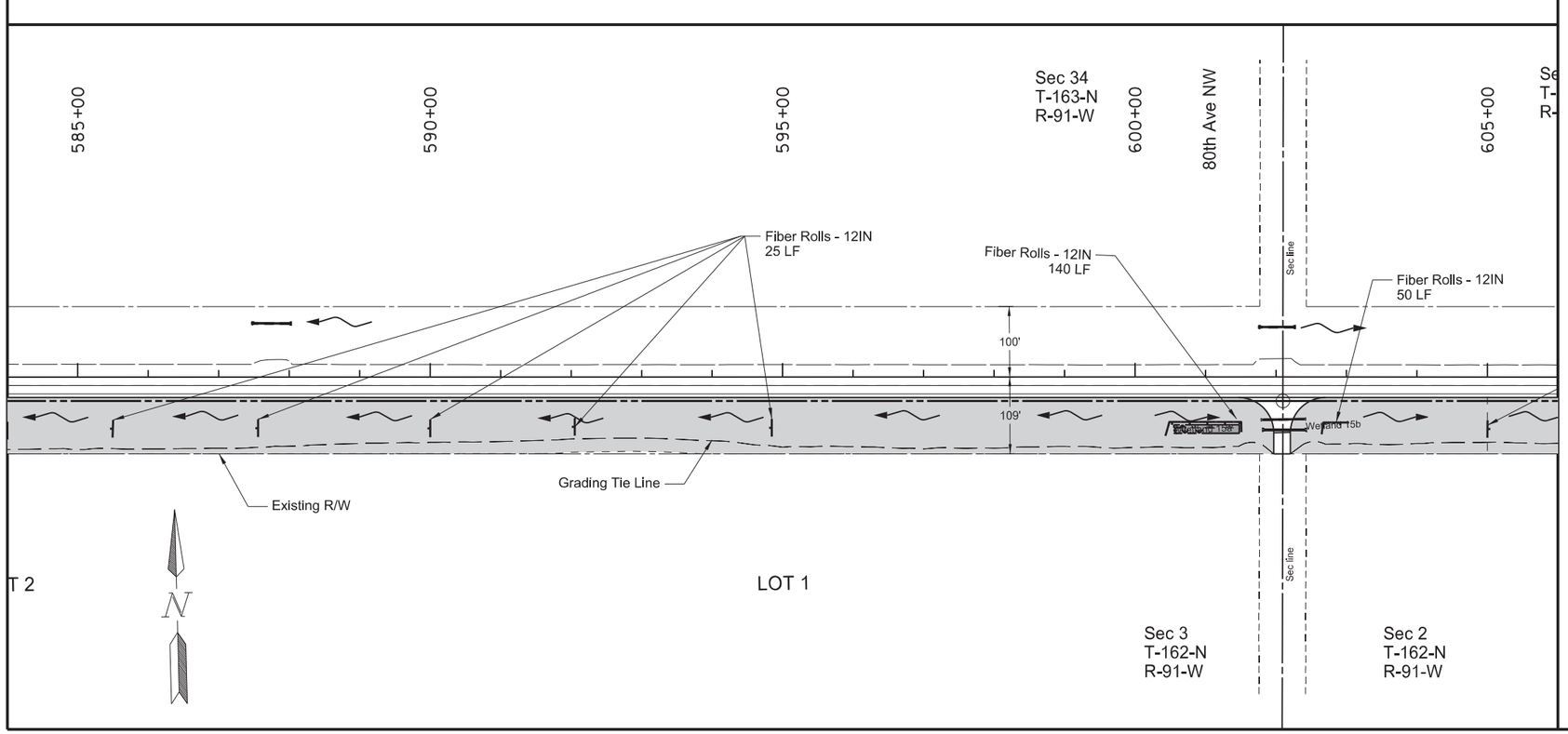
Permanent Erosion Control

Passing Lane #2

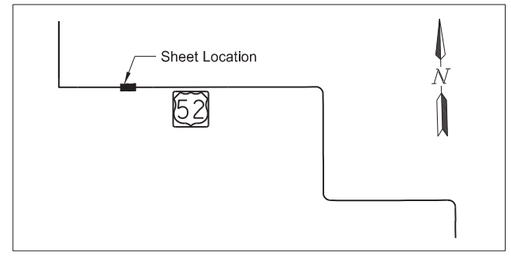
Sta 525+00 to Sta 565+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 7 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 565+00 to Sta 605+00 - Rt | 6.69 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 565+00 to Sta 605+00 - Rt | 0.23 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 565+00 to Sta 605+00 - Rt | 6.92 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 565+00 to Sta 569+90 - Rt (Protecting Wetlands) | 520 | LF |
| | | Sta 575+16 to Sta 594+85 - Rt (Ditch Checks) | 300 | LF |
| | | Sta 600+43 to Sta 601+51 - Rt (Protecting Wetlands) | 140 | LF |
| | | Sta 602+64 to Sta 603+045 - Rt (Protecting Wetlands) | 50 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

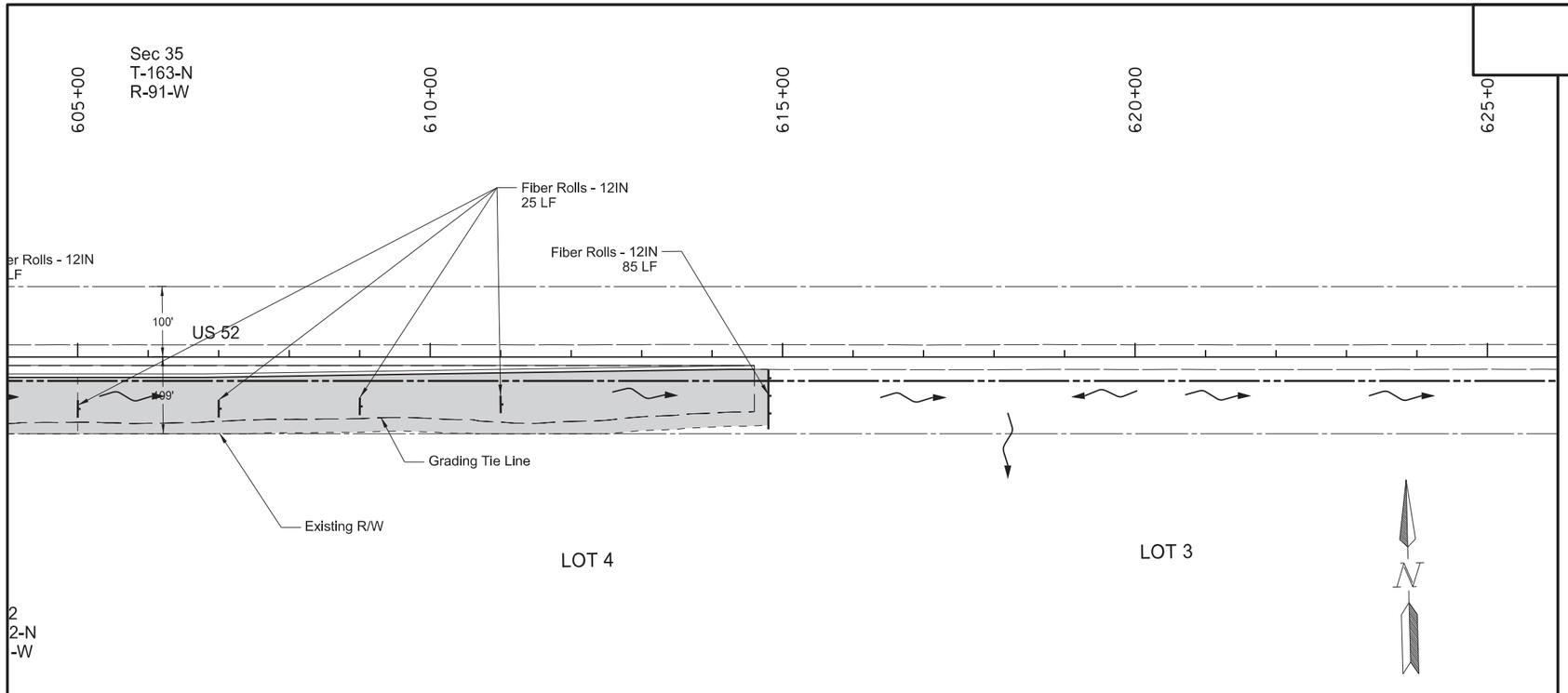
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Permanent Erosion Control

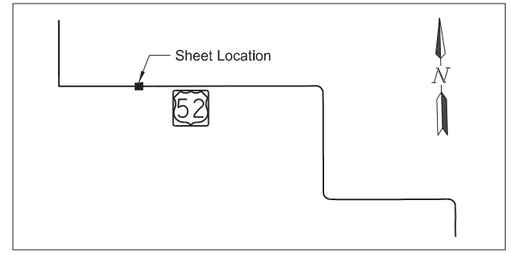
Passing Lane #2

Sta 565+00 to Sta 605+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 8 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 2000 | TEMPORARY COVER CROP | | |
| | | Sta 605+00 to Sta 614+80 - Rt | 1.86 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 605+00 to Sta 614+80 - Rt | 1.86 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 605+00 to Sta 611+00 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 614+80 - Rt (Leaving Project Limits) | 85 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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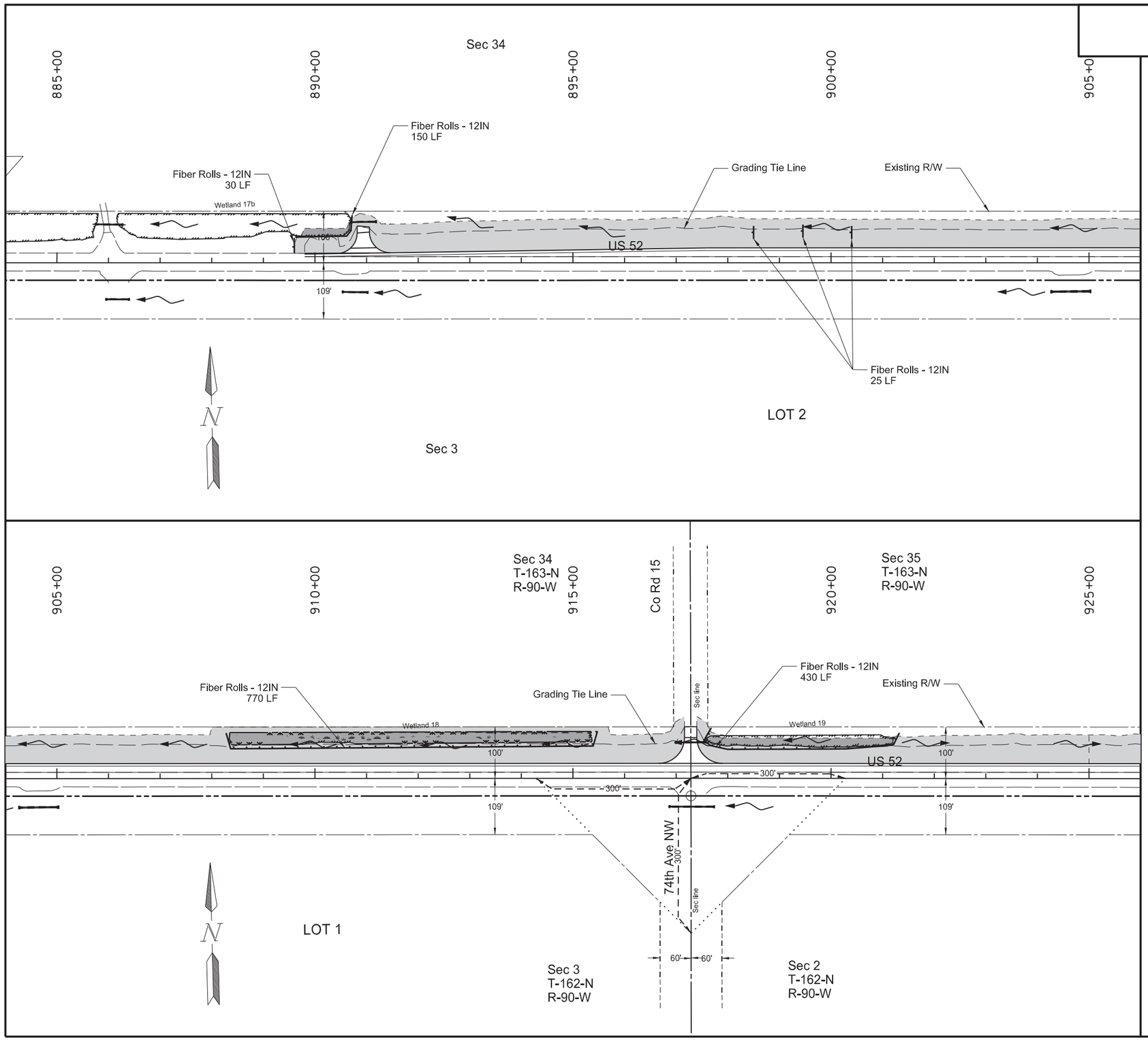
09/01/23

Permanent Erosion Control

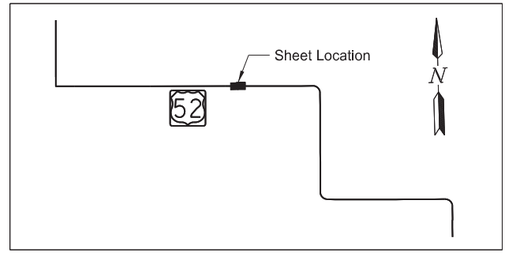
Passing Lane #2

Sta 605+00 to Sta 625+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 9 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 889+60 to Sta 925+00 - Lt | 4.21 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 889+60 to Sta 925+00 - Lt | 0.19 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 889+60 to Sta 925+00 - Lt | 4.41 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 889+60 (Leaving Project Limits) | 30 | LF |
| | | Sta 889+61 to Sta 890+72 - Lt (Protecting Wetland) | 150 | LF |
| | | Sta 898+50 to Sta 900+40 - Lt (Ditch Checks) | 75 | LF |
| | | Sta 908+27 to Sta 915+48 - Lt (Protecting Wetland) | 770 | LF |
| | | Sta 917+53 to Sta 921+33 - Lt (Protecting Wetland) | 430 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

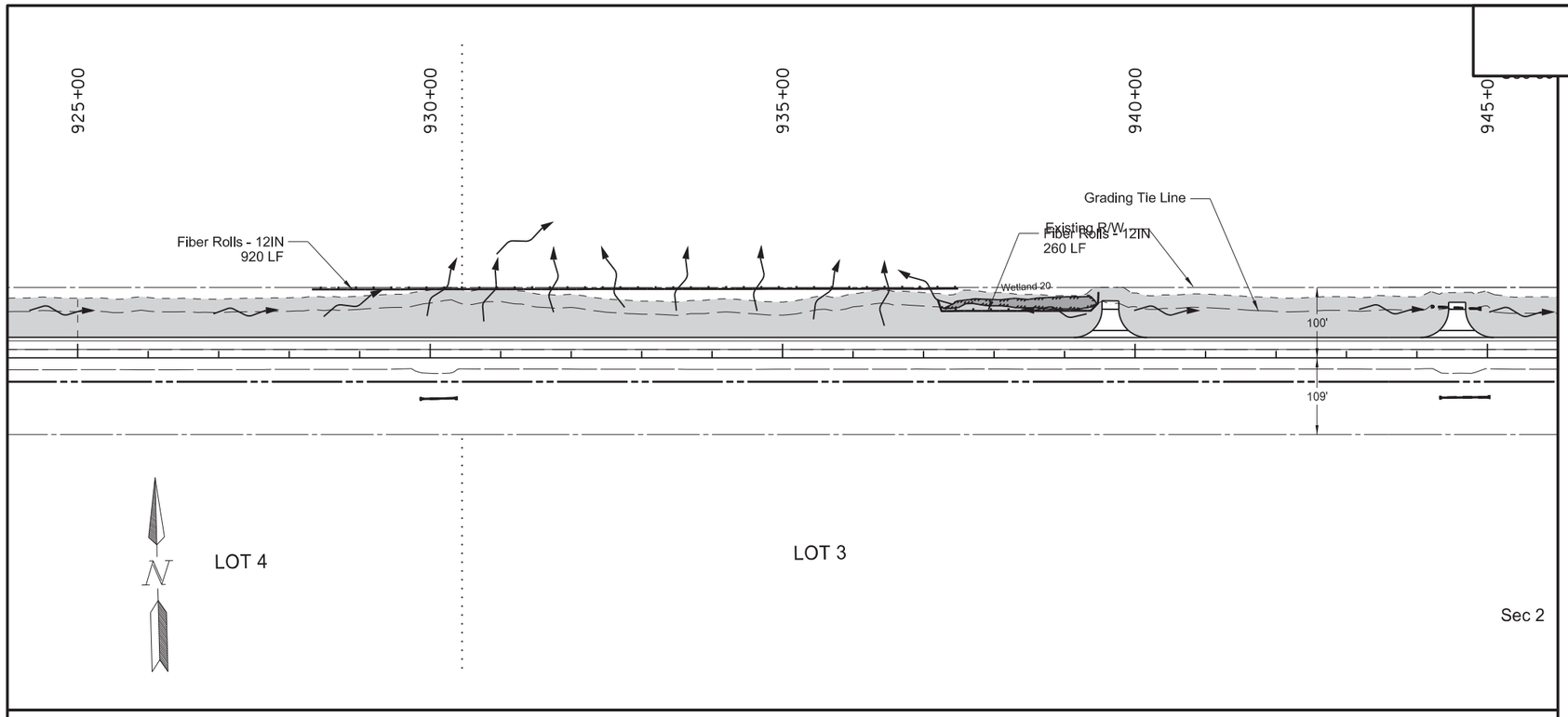
CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

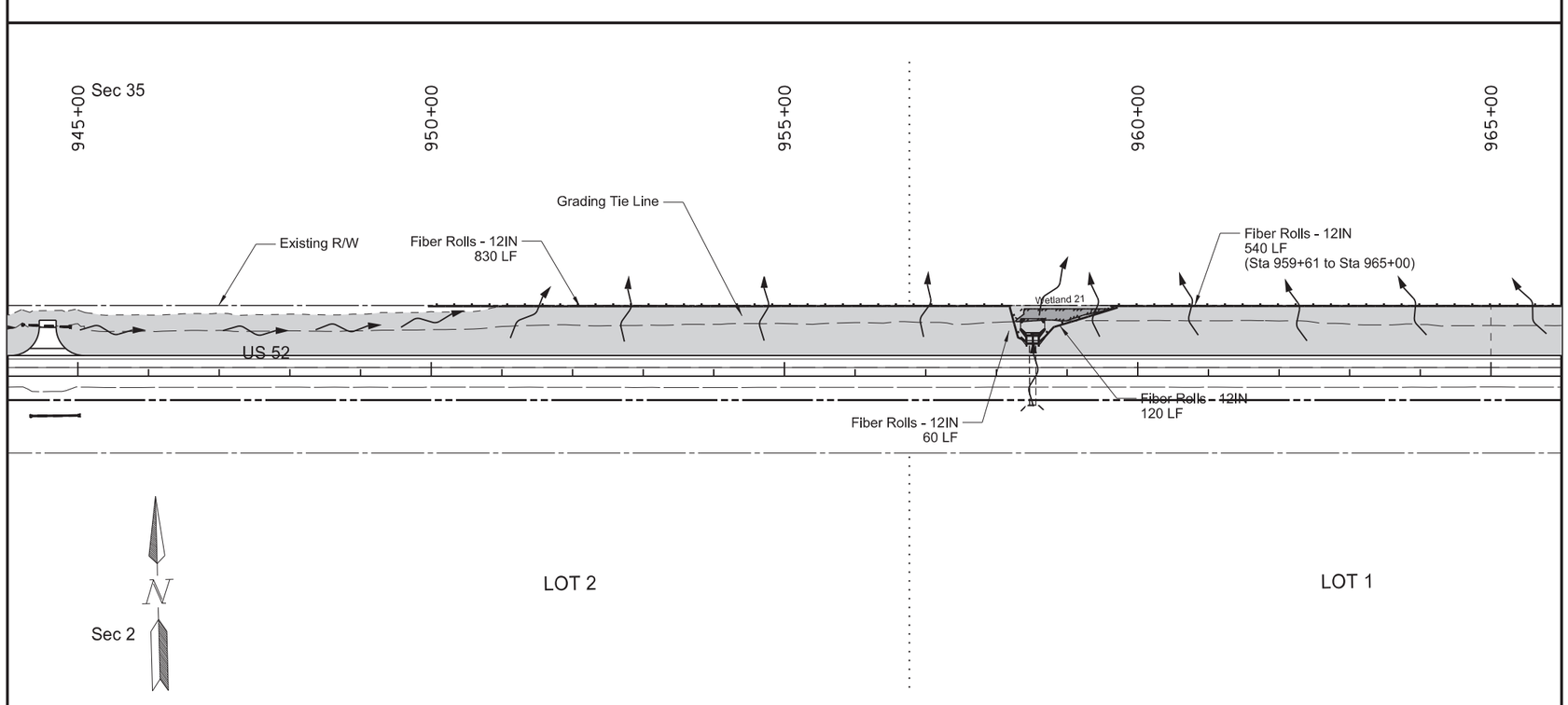
Permanent Erosion Control

Passing Lane #3

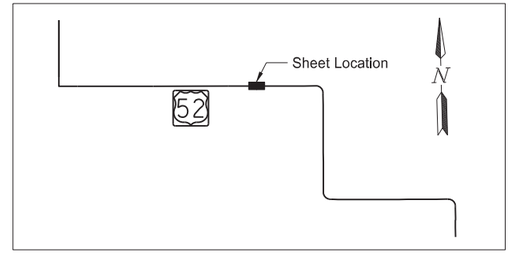
Sta 885+00 to Sta 925+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 10 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 925+00 to Sta 965+00 - Lt | 5.65 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 925+00 to Sta 965+00 - Lt | 0.09 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 925+00 to Sta 965+00 - Lt | 5.74 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 928+32 to 937+50 - Lt (Leaving R/W) | 920 | LF |
| | | Sta 937+20 to Sta 939+49 - Lt (Protecting Wetland) | 260 | LF |
| | | Sta 949+95 to Sta 958+21 - Lt (Leaving R/W) | 830 | LF |
| | | Sta 958+18 to Sta 958+39 - Lt (Protecting Wetland) | 60 | LF |
| | | Sta 958+64 to Sta 959+72 - Lt (Protecting Wetland) | 120 | LF |
| | | Sta 959+61 to Sta 965+00 - Lt (Leaving R/W) | 540 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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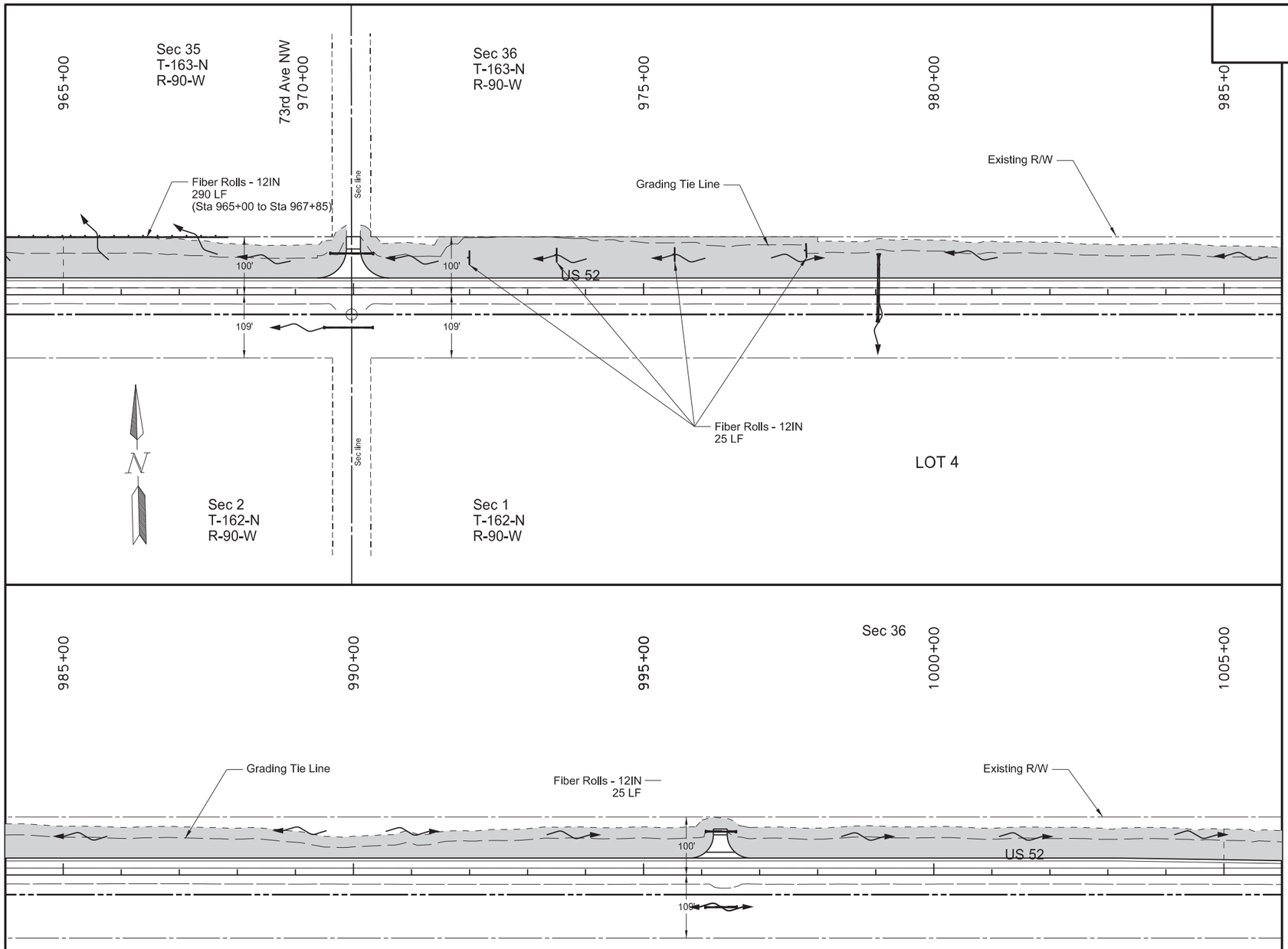
09/01/23

Permanent Erosion Control

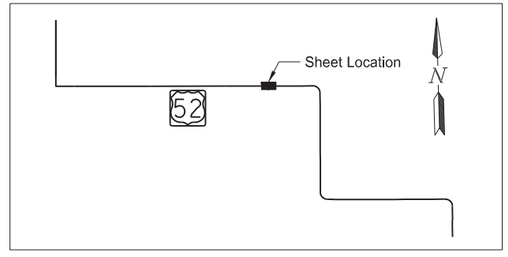
Passing Lane #3

Sta 925+00 to Sta 965+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 11 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 956+00 to Sta 1005+00 - Lt | 5.28 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 956+00 to Sta 1005+00 - Lt | 5.28 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 965+00 to 967+85 - Lt (Leaving R/W) | 290 | LF |
| | | Sta 972+00 to Sta 977+80 - Lt (Ditch Checks) | 100 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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NORTH DAKOTA

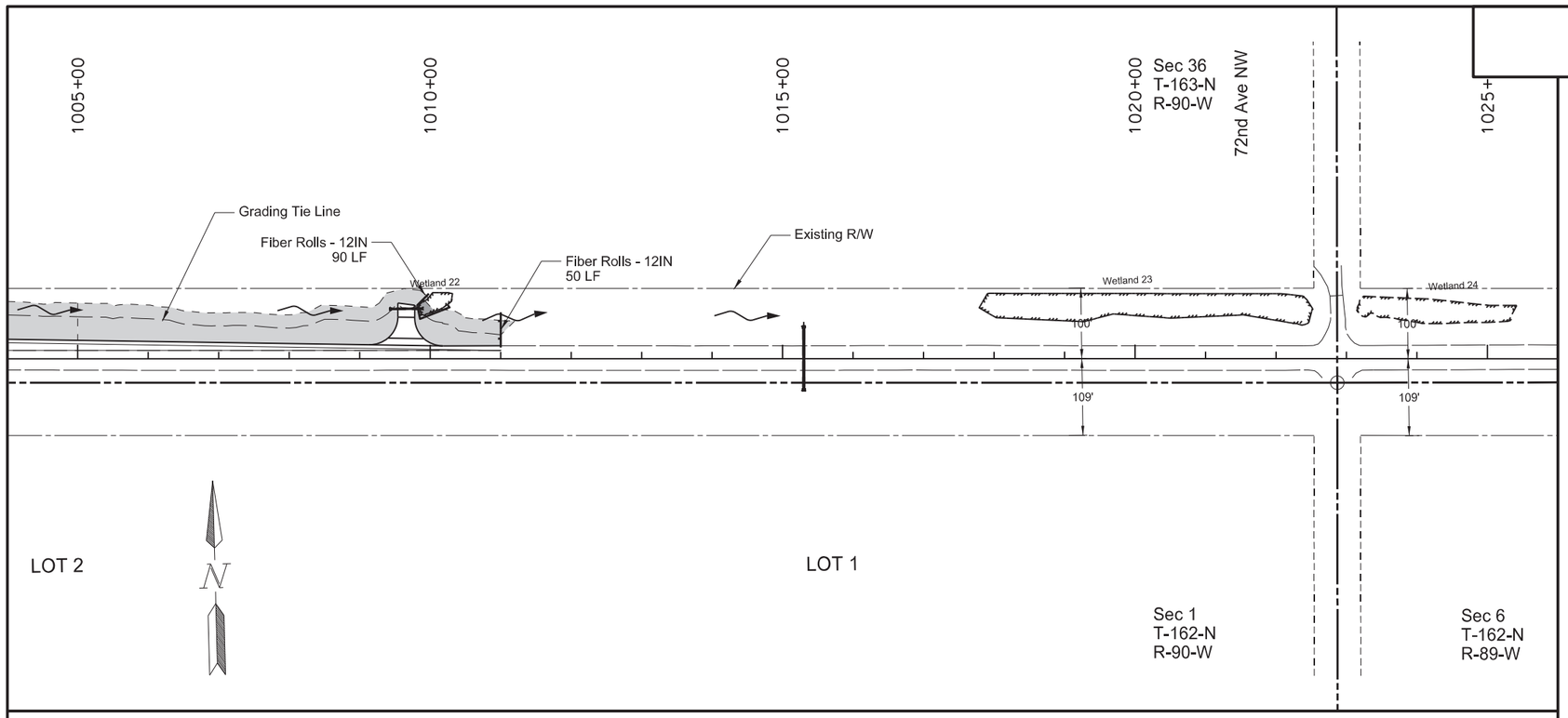
09/01/23

Permanent Erosion Control

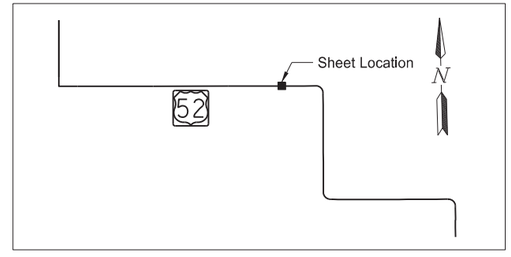
Passing Lane #3

Sta 965+00 to Sta 1005+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 12 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1005+00 to Sta 1011+20 - Lt | 0.65 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1005+00 to Sta 1011+20 - Lt | 0.01 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1005+00 to Sta 1011+20 - Lt | 0.65 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1009+81 to Sta 1010+29 - Lt (Protecting Wetland) | 90 | LF |
| | | Sta 1020+00 - Lt (Leaving Project Limits) | 50 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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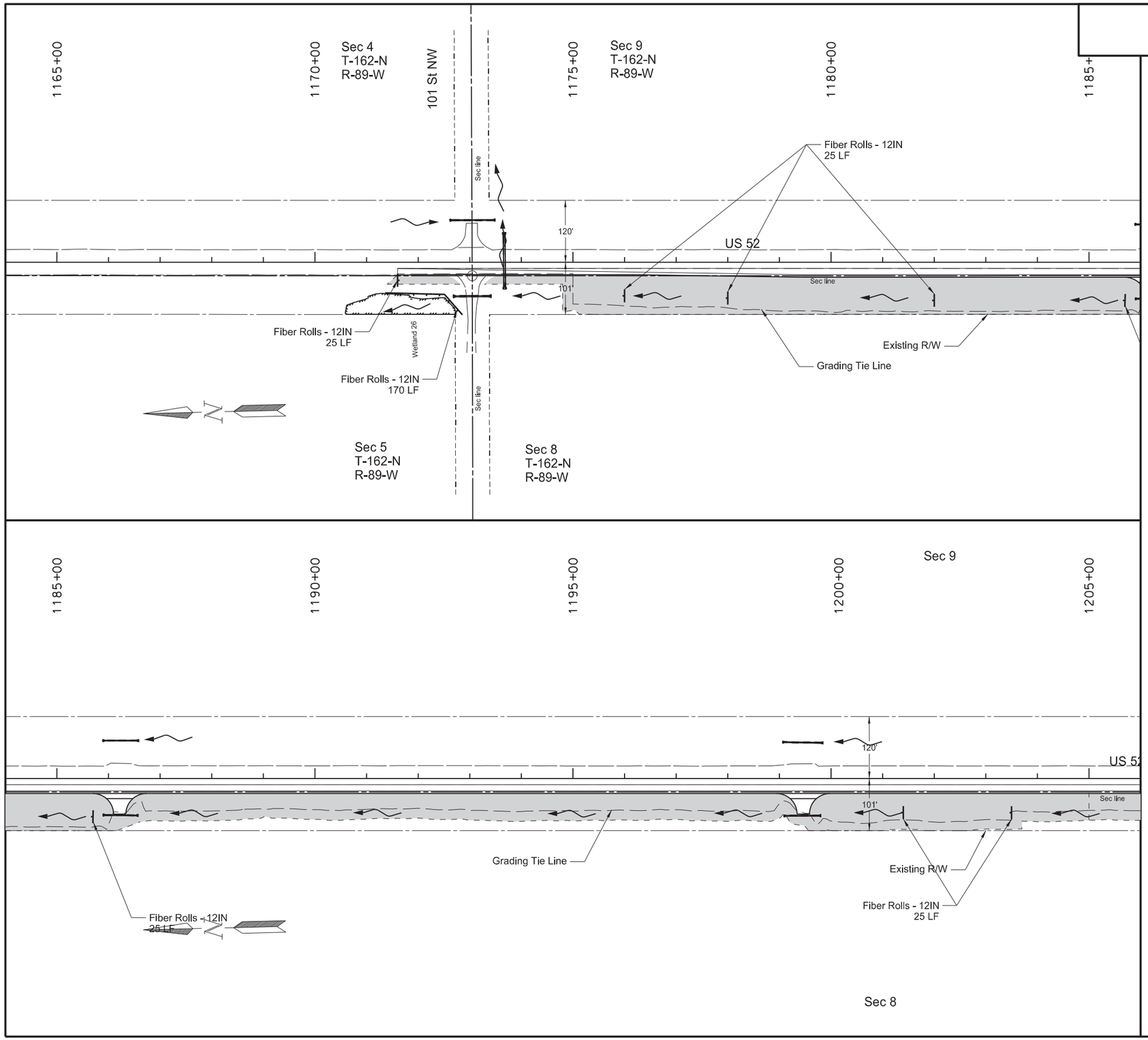
09/01/23

Permanent Erosion Control

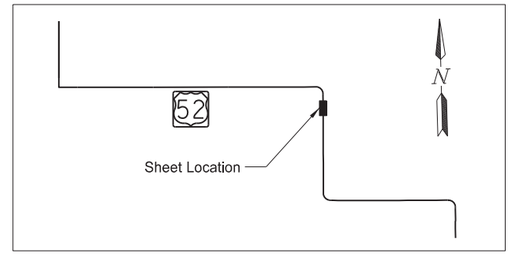
Passing Lane #3

Sta 1005+00 to Sta 1025+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 13 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1171+40 to Sta 1205+00 - Rt | 4.37 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1171+40 to Sta 1205+00 - Rt | 4.37 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1171+36 to Sta 1172+86 (Protecting Wetland) | 170 | LF |
| | | Sta 1171+40 - Rt (Leaving R/W) | 25 | LF |
| | | Sta 1176+00 to Sta 1185+70 - Rt (Ditch Checks) | 100 | LF |
| | | Sta 1201+40 to Sta 1203+50 - Rt (Ditch Checks) | 50 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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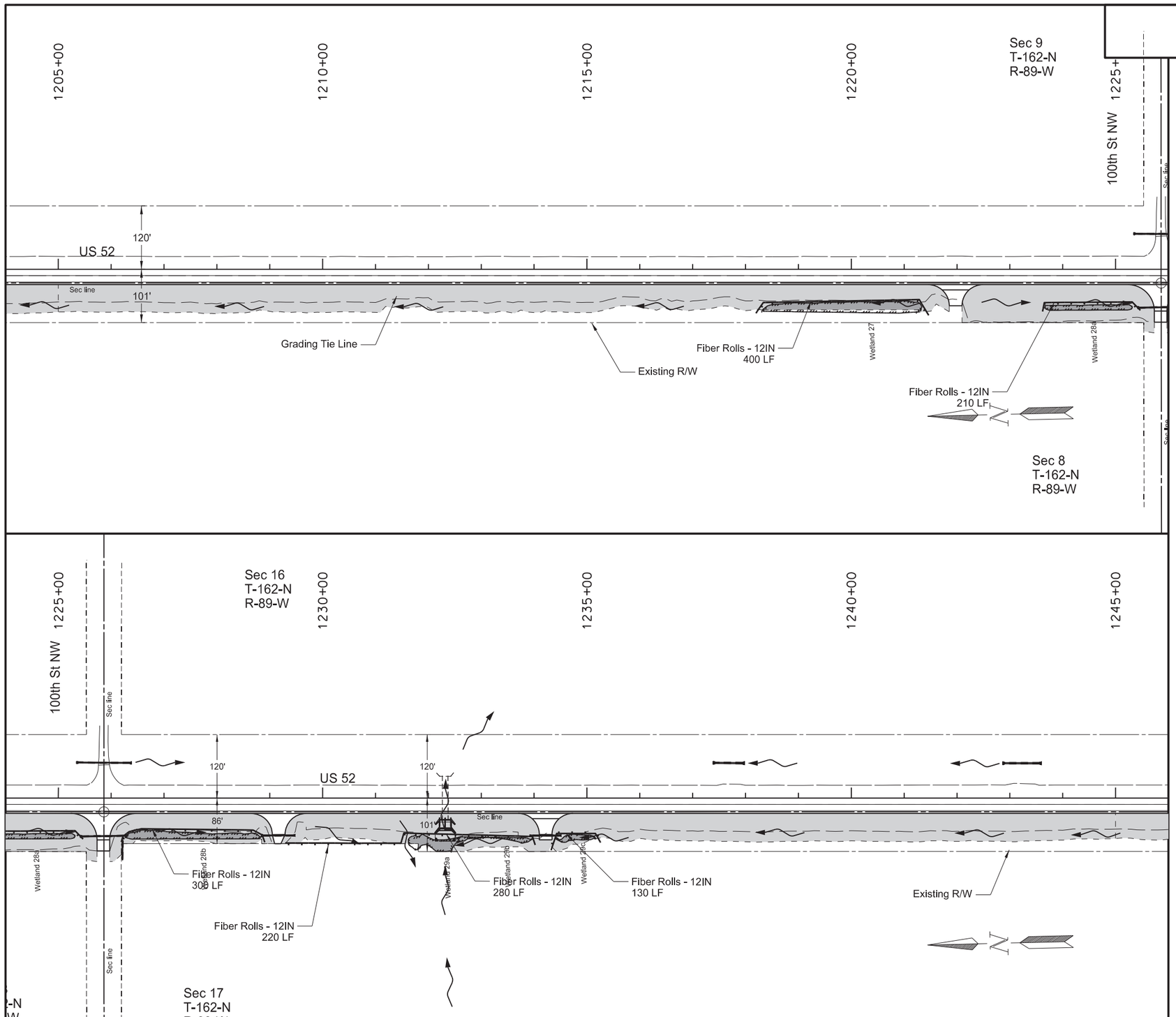
09/01/23

Permanent Erosion Control

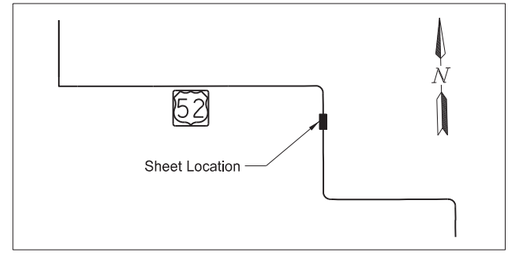
Passing Lane #4

Sta 1165+00 to Sta 1205+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 14 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1205+00 to Sta 1245+00 - Rt | 4.52 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1205+00 to Sta 1245+00 - Rt | 0.27 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1205+00 to Sta 1245+00 - Rt | 4.79 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1218+19 to Sta 1221+47 - Rt (Protecting Wetland) | 400 | LF |
| | | Sta 1223+60 to Sta 1225+47 - Rt (Protecting Wetland) | 210 | LF |
| | | Sta 1226+19 to Sta 1228+91 - Rt (Protecting Wetland) | 300 | LF |
| | | Sta 1229+29 to 1231+49 - Rt (Leaving R/W) | 220 | LF |
| | | Sta 1226+19 to Sta 1234+02 - Rt (Protecting Wetland) | 280 | LF |
| | | Sta 1234+32 to Sta 1235+26 - Rt (Protecting Wetland) | 130 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

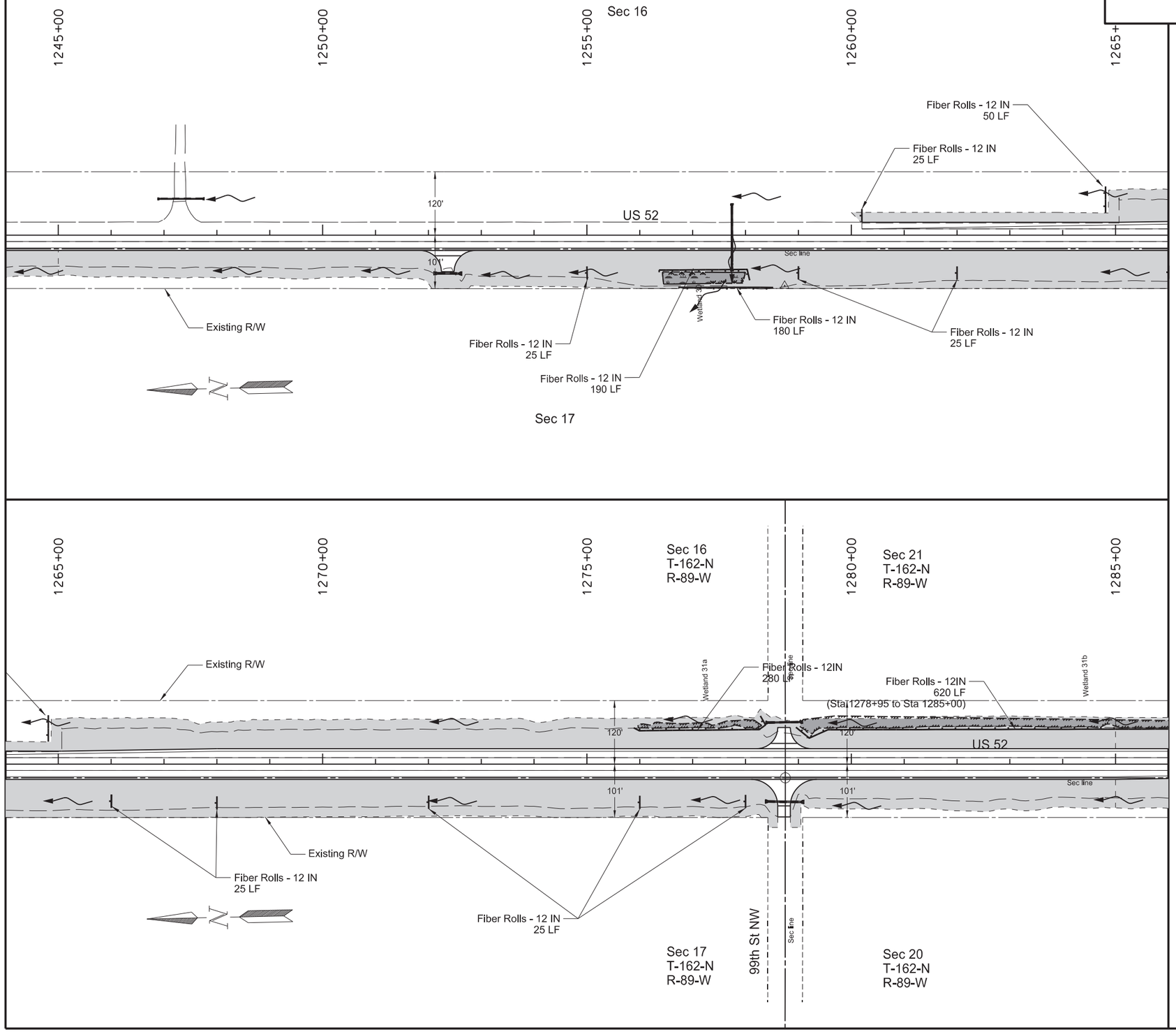
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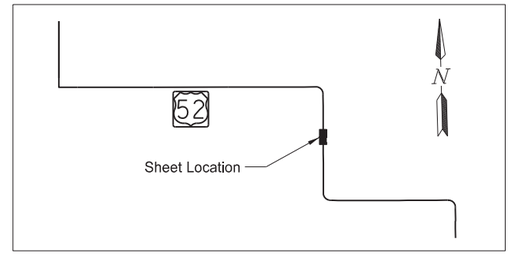
Passing Lane #4

Sta 1205+00 to Sta 1245+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 15 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1245+00 to Sta 1285+00 - Rt | 5.83 | ACRE |
| | | Sta 1245+00 to Sta 1285+00 - Lt | 2.56 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1245+00 to Sta 1285+00 - Rt | 0.08 | ACRE |
| | | Sta 1245+00 to Sta 1285+00 - Lt | 0.27 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1245+00 to Sta 1285+00 - Rt | 5.91 | ACRE |
| | | Sta 1245+00 to Sta 1285+00 - Lt | 2.82 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1255+00 to Sta 1262+00 - Rt (Ditch Checks) | 75 | LF |
| | | Sta 1256+36 to Sta 1258+08 - Rt (Protecting Wetland) | 190 | LF |
| | | Sta 1256+72 to Sta 1258+53 - Rt (Leaving R/W) | 180 | LF |
| | | Sta 1260+20 - Lt (Leaving Project Limits) | 25 | LF |
| | | Sta 1264+81 - Lt (Leaving Project Limits) | 50 | LF |
| | | Sta 1266+00 to Sta 1278+00 - Rt (Ditch Checks) | 125 | LF |
| | | Sta 1275+88 to Sta 1278+29 - Lt (Protecting Wetland) | 280 | LF |
| | | Sta 1278+95 to Sta 1285+00 - Lt (Protecting Wetland) | 620 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

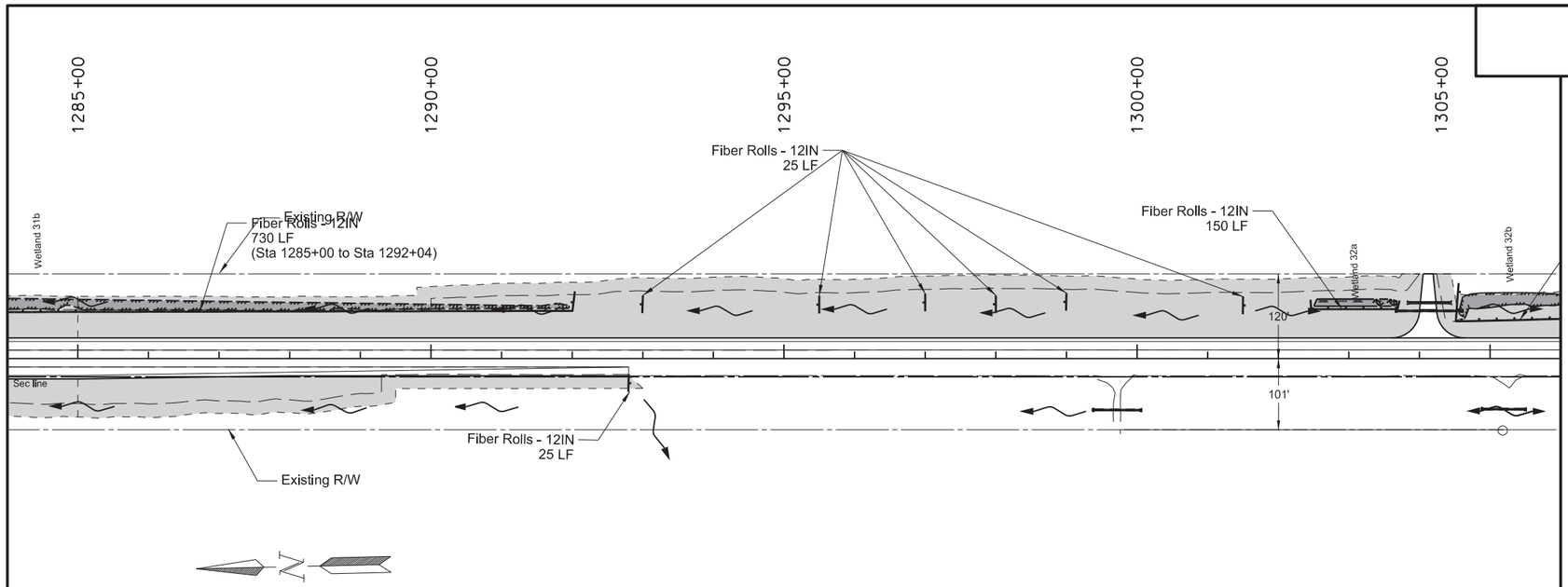
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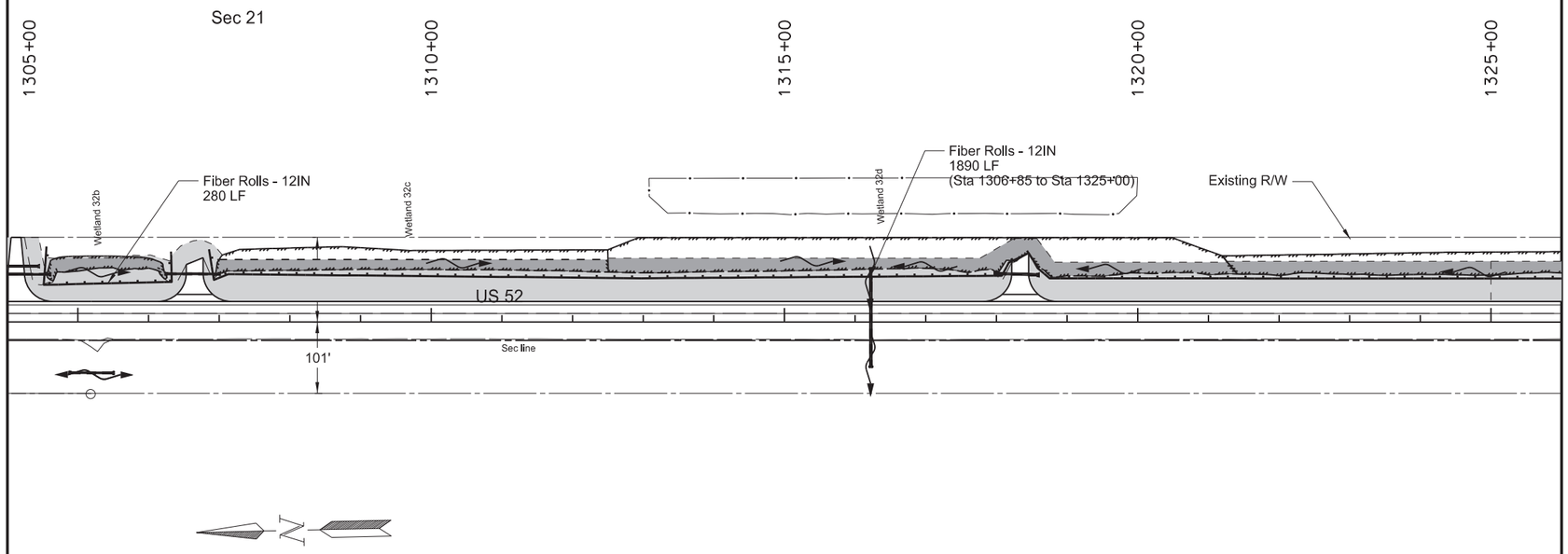
Permanent Erosion Control

Passing Lane #4 and #5

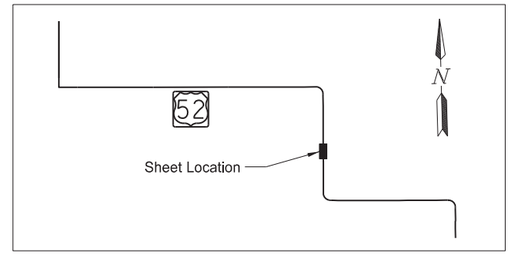
Sta 1245+00 to Sta 1285+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 16 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1285+00 to Sta 1325+00 - Rt | 0.67 | ACRE |
| | | Sta 1285+00 to Sta 1325+00 - Lt | 3.93 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1285+00 to Sta 1325+00 - Lt | 0.98 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1285+00 to Sta 1325+00 - Rt | 0.67 | ACRE |
| | | Sta 1285+00 to Sta 1325+00 - Lt | 4.90 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1285+00 to Sta 1292+04 - Lt (Protecting Wetland) | 730 | LF |
| | | Sta 1292+80 - Rt (Leaving Project Limits) | 25 | LF |
| | | Sta 1293+00 to Sta 1301+50 - Lt (Ditch Checks) | 150 | LF |
| | | Sta 1302+45 to Sta 1303+72 - Lt (Protecting Wetland) | 150 | LF |
| | | Sta 1306+85 to Sta 1325+00 (Protecting Wetland) | 1850 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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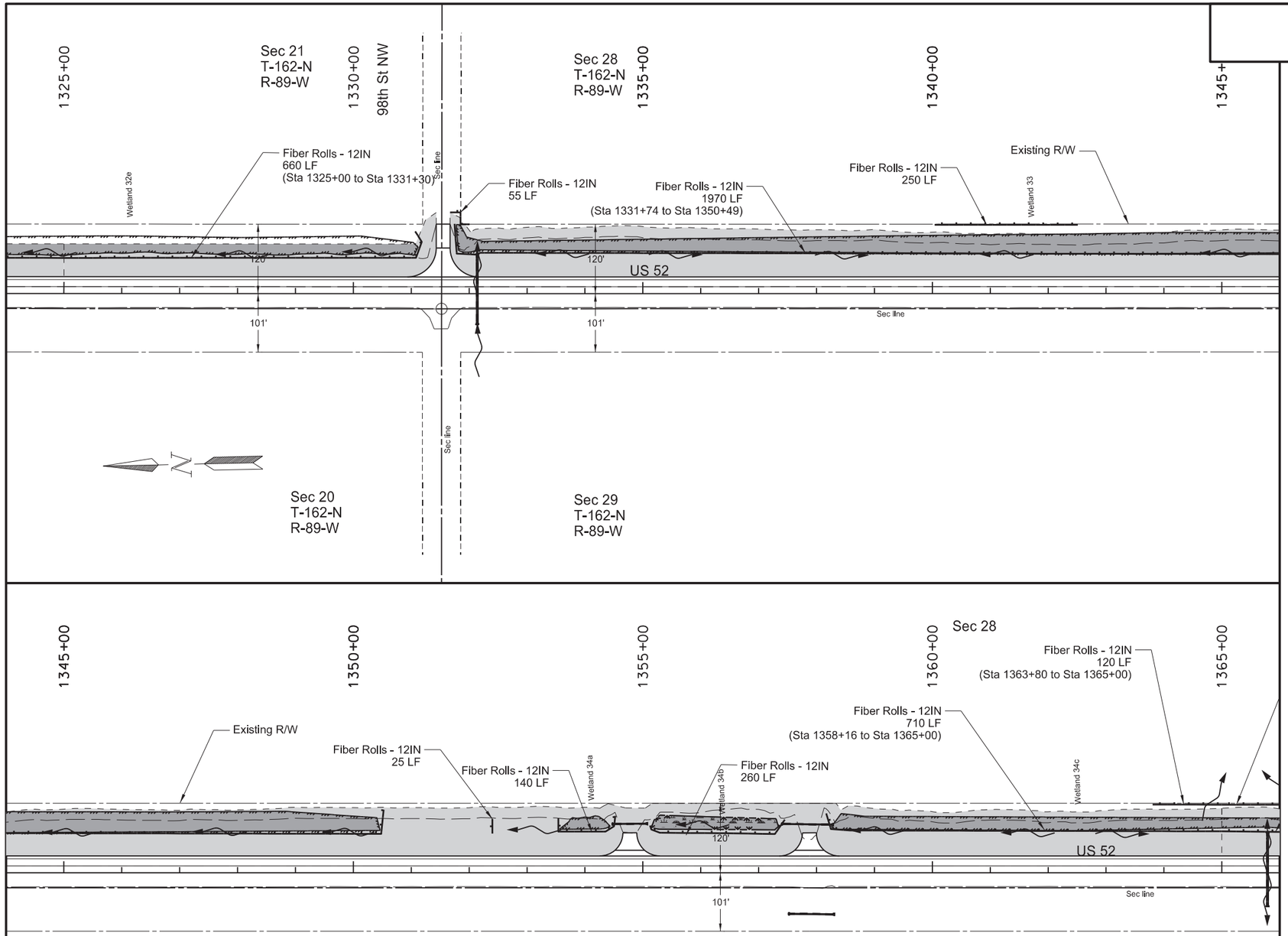
09/01/23

Permanent Erosion Control

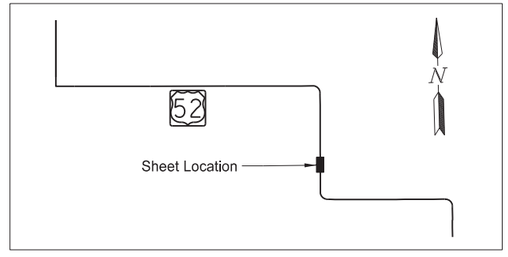
Passing Lane #4 and #5

Sta 1285+00 to Sta 1325+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 17 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1325+00 to Sta 1365+00 - Lt | 5.10 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1325+00 to Sta 1365+00 - Lt | 1.94 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1325+00 to Sta 1365+00 - Lt | 7.04 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1325+00 to Sta 1331+30 - Lt (Protecting Wetland) | 660 | LF |
| | | Sta 1331+67 to Sta 1332+00 - Lt (Leaving Project Limits | 55 | LF |
| | | Sta 1331+74 to Sta 1350+49 - Lt (Protecting Wetland) | 1970 | LF |
| | | Sta 1340+04 to Sta 1342+52 - Lt (Leaving R/W) | 250 | LF |
| | | Sta 1352+40 - Lt (Ditch Check) | 25 | LF |
| | | Sta 1353+54 to Sta 1354+53 - Lt (Protecting Wetland) | 140 | LF |
| | | Sta 1355+12 to Sta 1357+46 - Lt (Protecting Wetland) | 260 | LF |
| | | Sta 1355+12 to Sta 1357+46 - Lt (Protecting Wetland) | 710 | LF |
| | | Sta 1363+80 to Sta 1365+00 - Lt (Leaving R/W) | 120 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

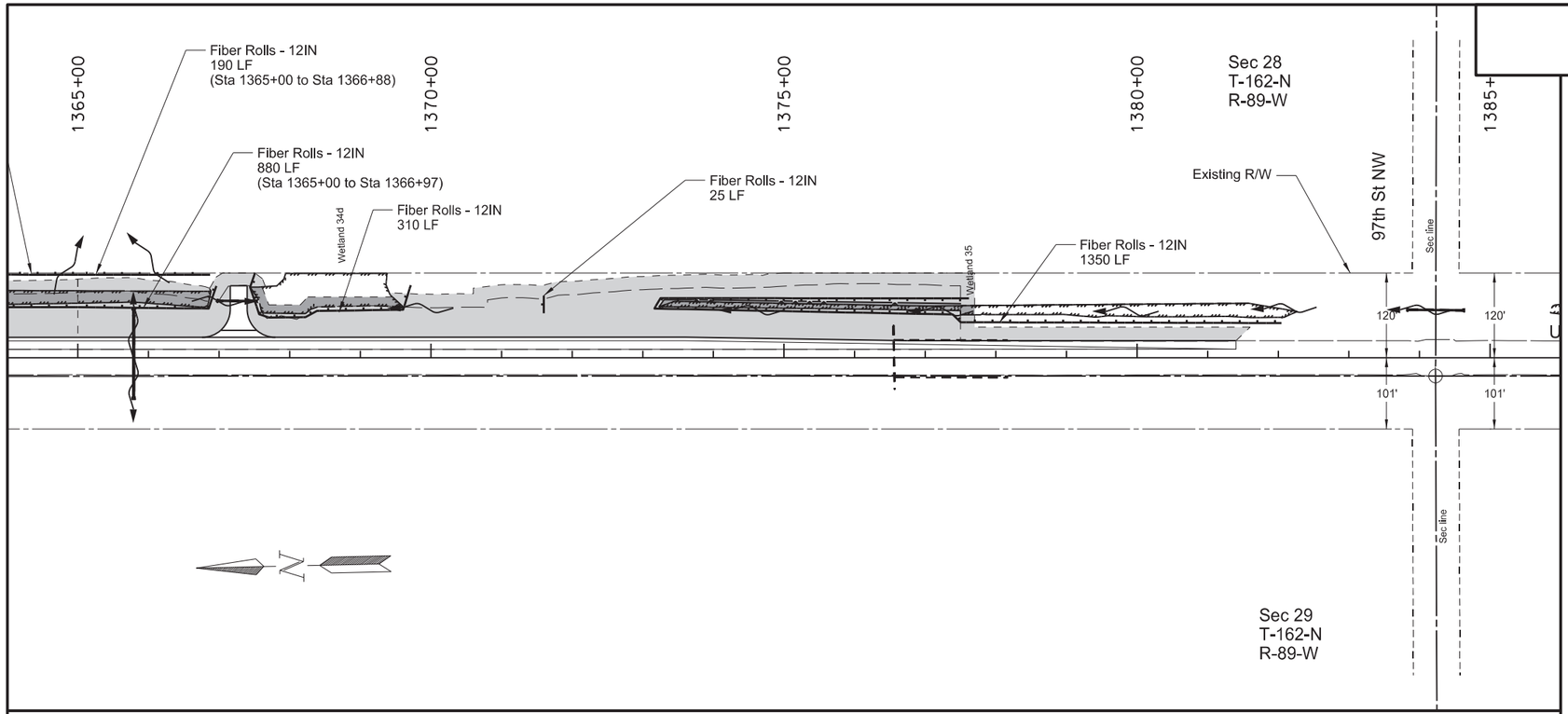
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09/01/23

Permanent Erosion Control

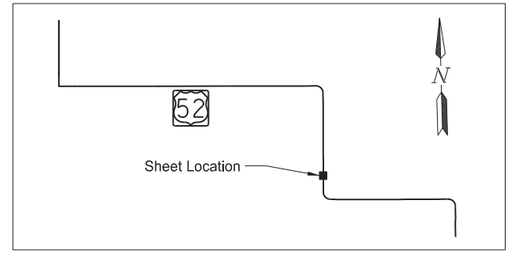
Passing Lane #5

Sta 1325+00 to Sta 1365+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 18 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1365+00 to Sta 1381+60 - Lt | 2.18 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1365+00 to Sta 1381+60 - Lt | 0.25 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1365+00 to Sta 1381+60 - Lt | 2.43 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1365+00 to Sta 1366+88 - Lt (Leaving R/W) | 190 | LF |
| | | Sta 1365+00 to Sta 1366+97 - Lt (Protecting Wetland) | 880 | LF |
| | | Sta 1367+50 to Sta 1369+71 - Lt (Protecting Wetland) | 310 | LF |
| | | Sta 1371+60 - Lt (Ditch Check) | 25 | LF |
| | | Sta 1373+16 to Sta 1382+05 - Lt (Protecting Wetland) | 1350 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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NORTH DAKOTA

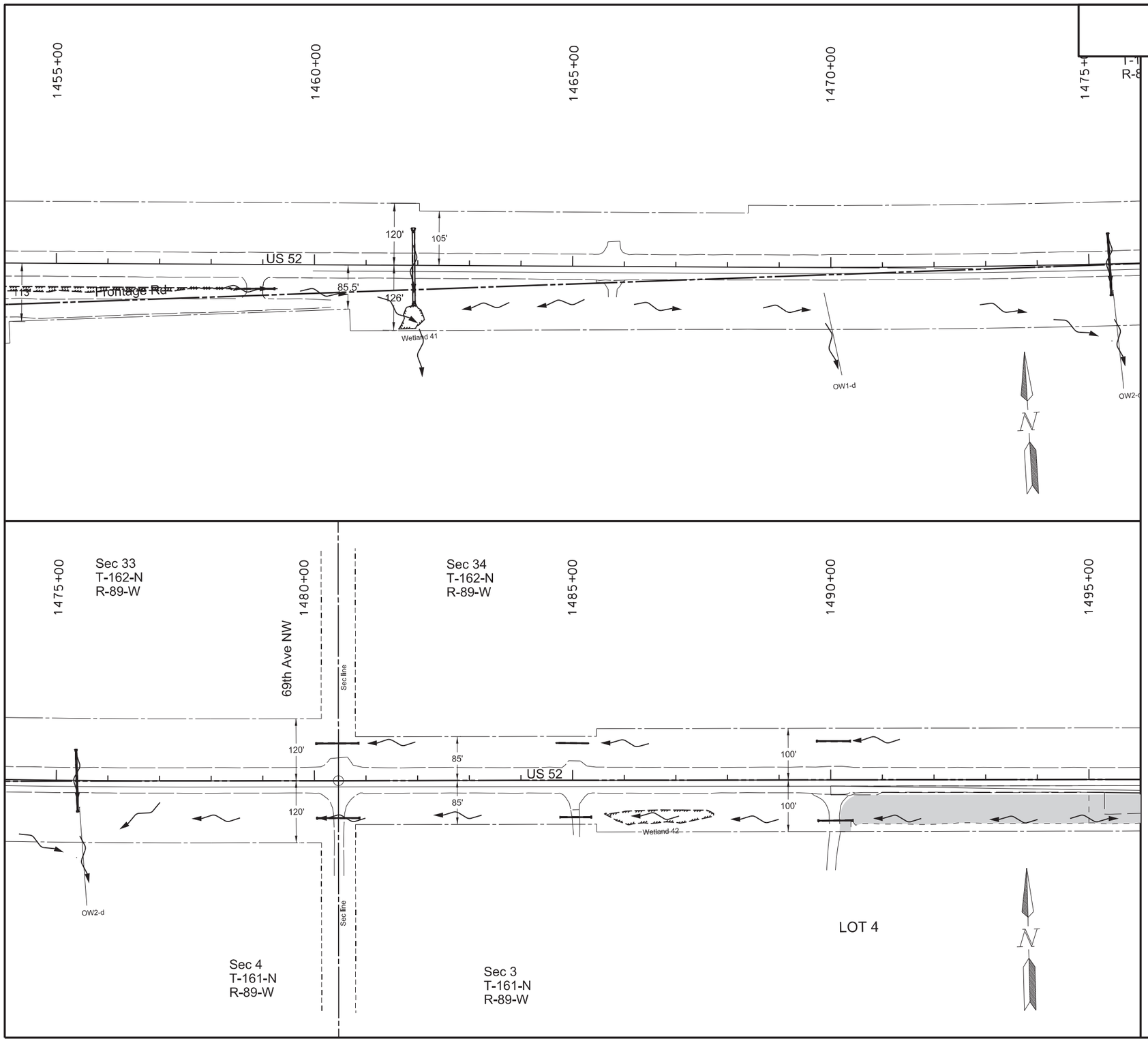
09/01/23

Permanent Erosion Control

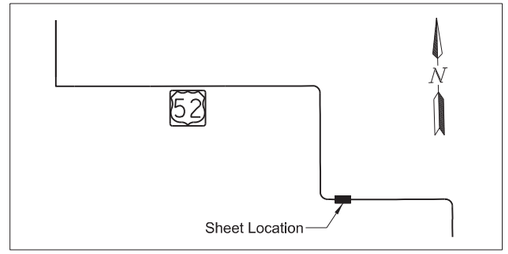
Passing Lane #5

Sta 1365+00 to Sta 1385+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 19 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1459+77 to Sta 1495+00 - Rt | 0.62 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1459+77 to Sta 1495+00 - Rt | 0.62 | ACRE |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

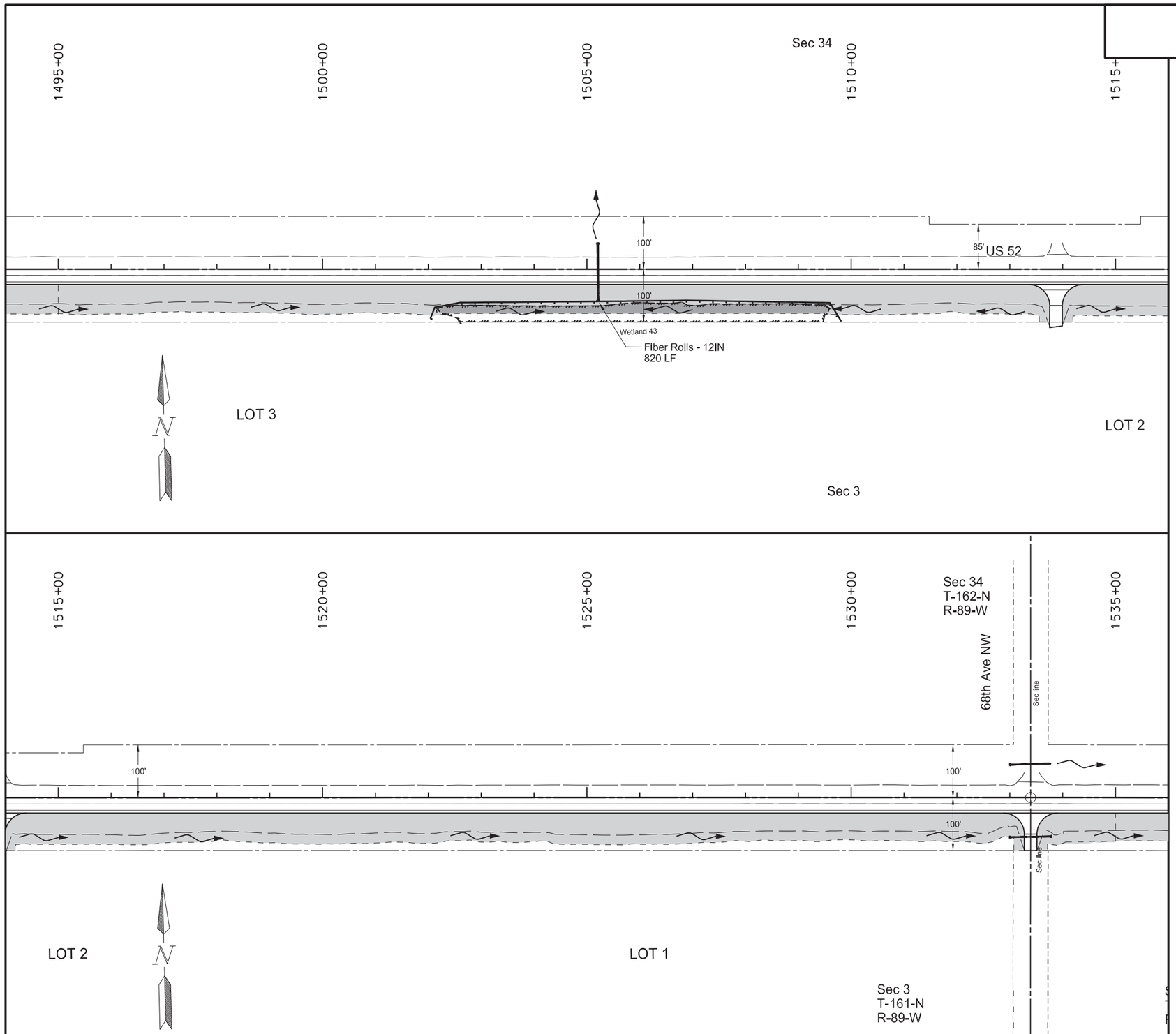
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PROFESSIONAL
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ENGINEER
NORTH DAKOTA
09/01/23

Permanent Erosion Control

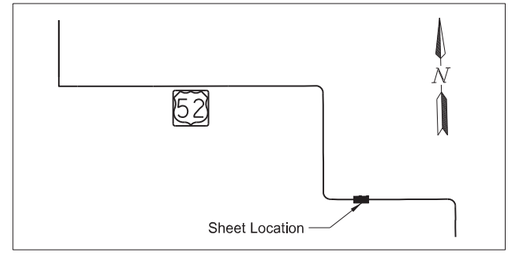
Passing Lane #6

Sta 1455+00 to Sta 1495+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 20 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1495+00 to Sta 1535+00 - Rt | 4.62 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1495+00 to Sta 1535+00 - Rt | 0.28 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1495+00 to Sta 1535+00 - Rt | 4.90 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1502+03 to Sta 1509+82 - Rt (Protecting Wetland) | 820 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

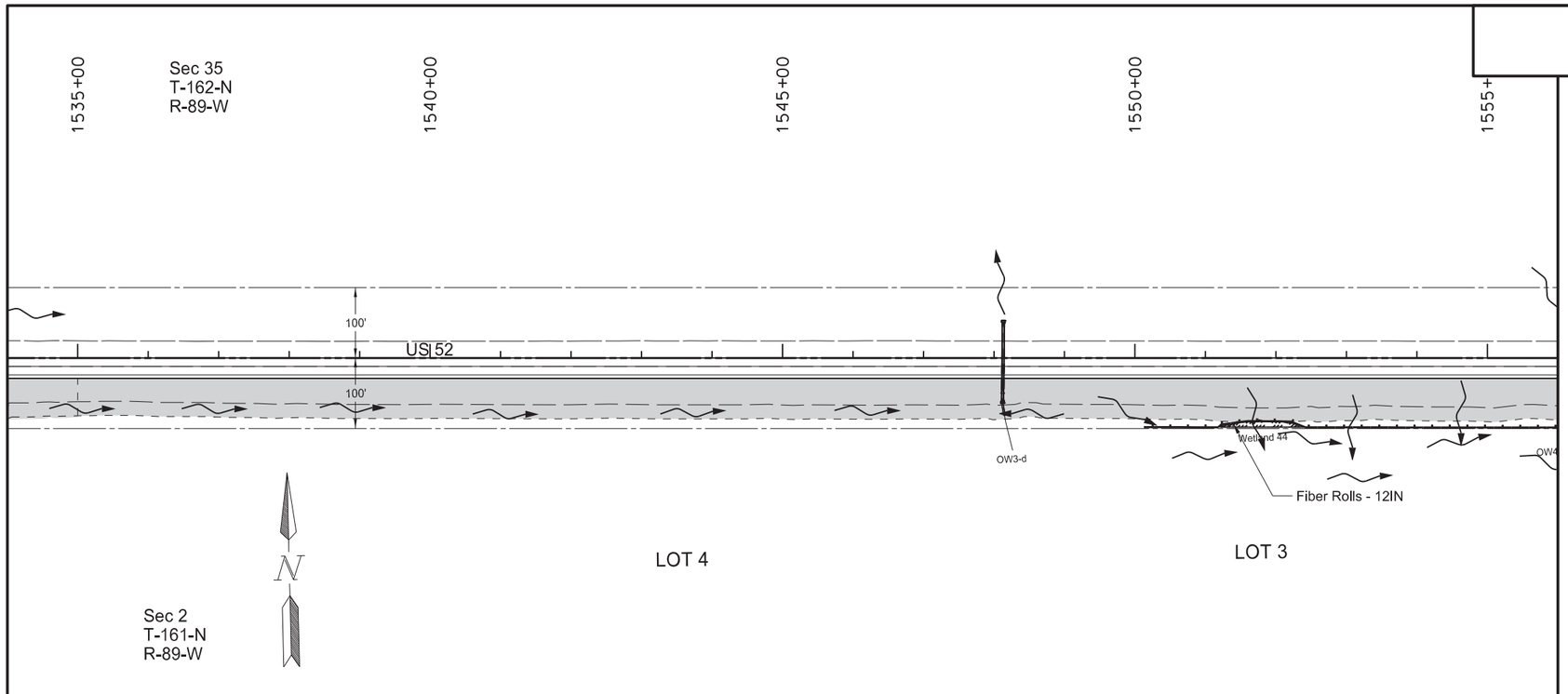
CHAD FRISINGER
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PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

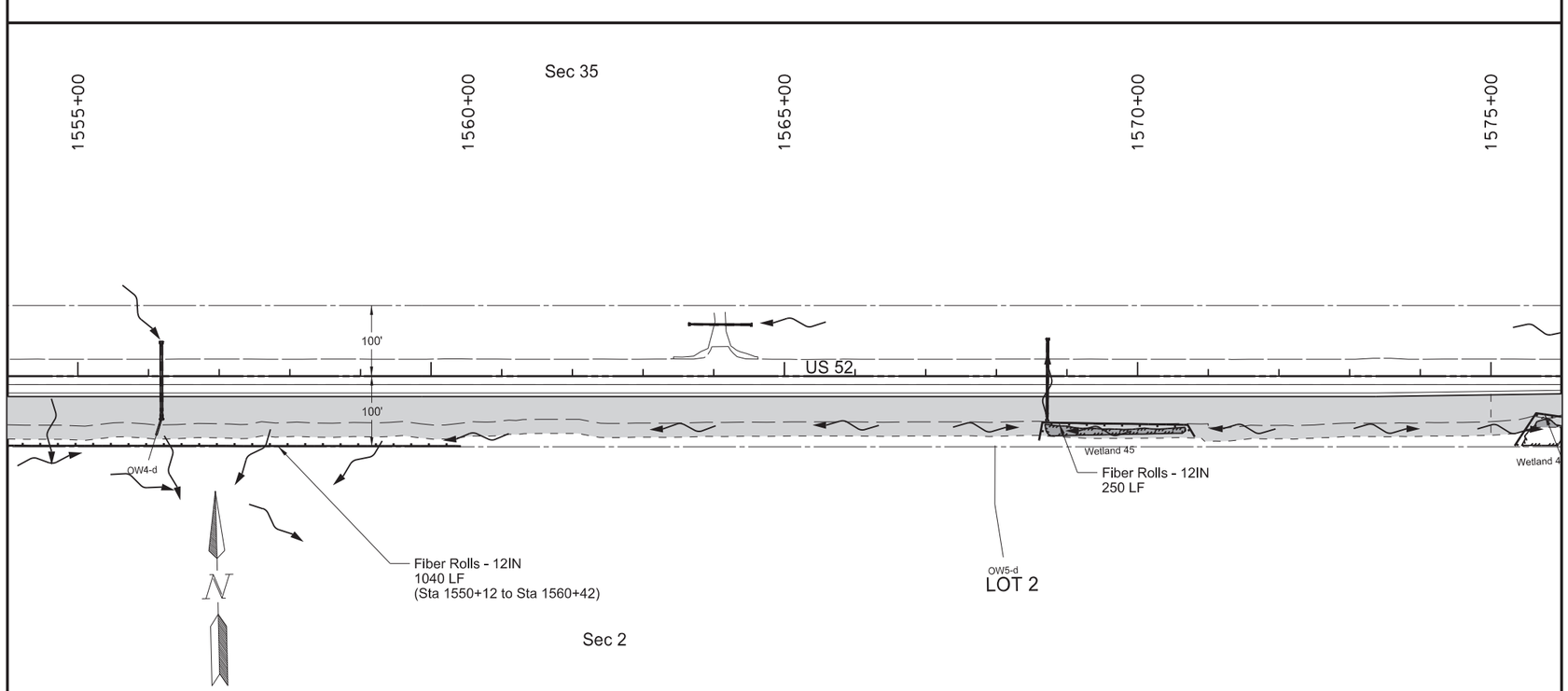
Permanent Erosion Control

Passing Lane #6

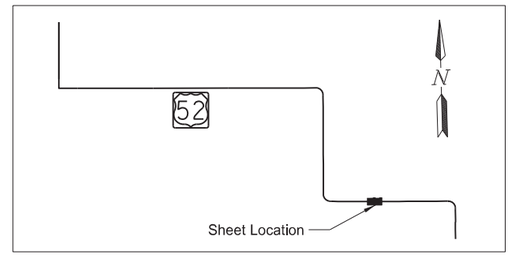
Sta 1495+00 to Sta 1535+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 21 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1535+00 to Sta 1575+00 - Rt | 5.23 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1535+00 to Sta 1575+00 - Rt | 0.04 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1535+00 to Sta 1575+00 - Rt | 5.27 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1550+12 to Sta 1560+42 - Rt | | |
| | | (Leaving R/W & Protecting Wetland) | 1040 | LF |
| | | Sta 1568+60 to Sta 1570+81 - Rt (Protecting Wetland) | 250 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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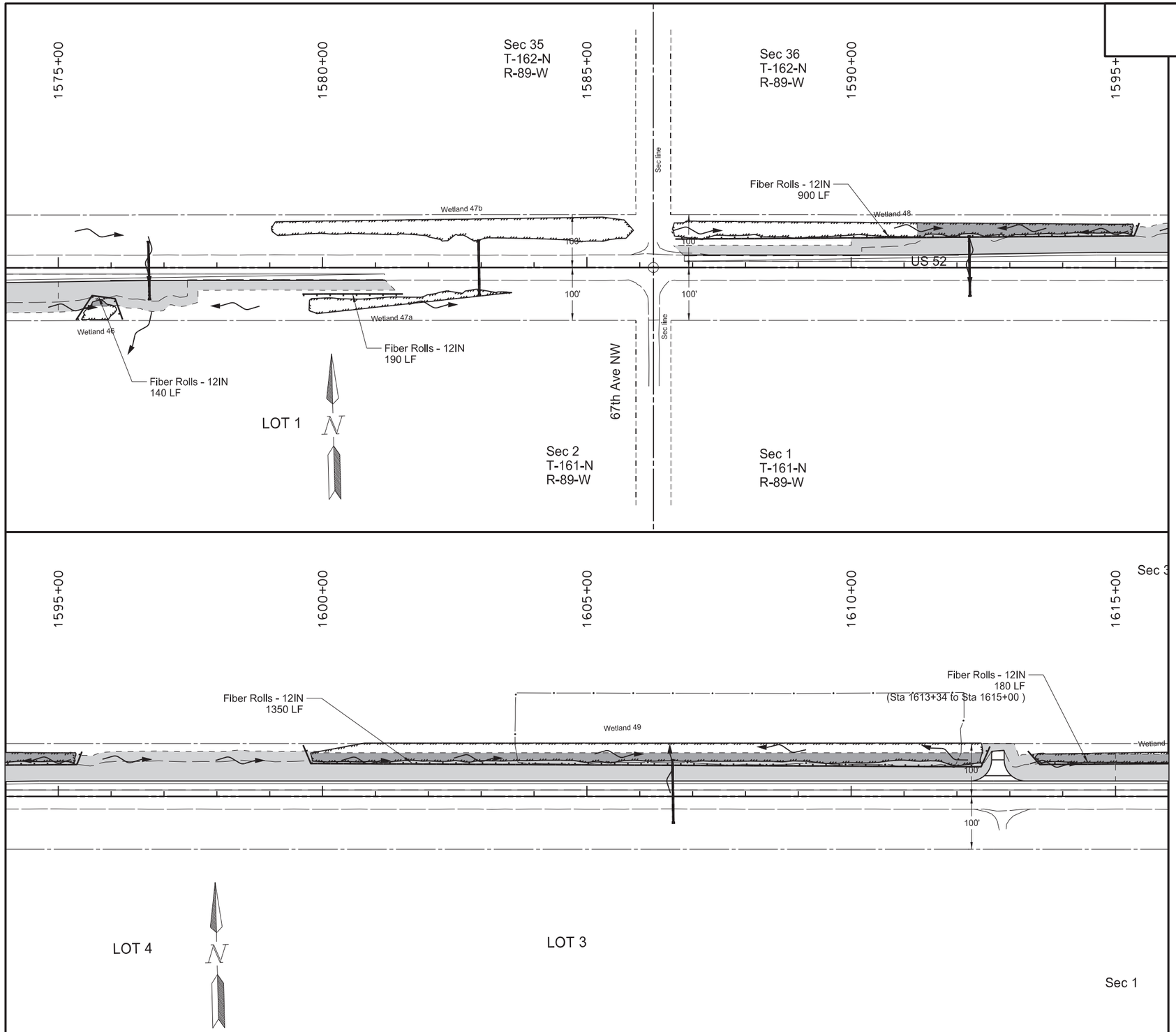
09/01/23

Permanent Erosion Control

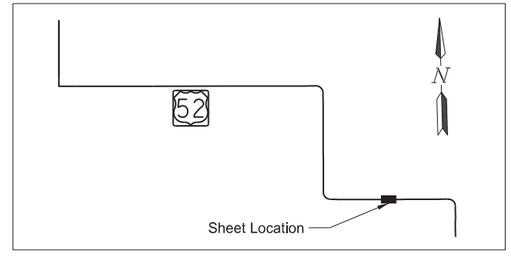
Passing Lane #6

Sta 1535+00 to Sta 1575+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 22 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1575+00 to Sta 1581+37 - Rt | 0.46 | ACRE |
| | | Sta 1586+63 to Sta 1615+00 - Lt | 2.45 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1575+00 to Sta 1581+37 - Rt | 0.01 | ACRE |
| | | Sta 1586+63 to Sta 1615+00 - Lt | 0.69 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1575+00 to Sta 1581+37 - Rt | 0.47 | ACRE |
| | | Sta 1586+63 to Sta 1615+00 - Lt | 3.14 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1575+33 to Sta 1576+22 - Rt (Protecting Wetland) | 140 | LF |
| | | Sta 1579+61 to Sta 1581+62 - Rt (Protecting Wetland) | 190 | LF |
| | | Sta 1586+67 to Sta 1595+45 - Lt (Protecting Wetland) | 900 | LF |
| | | Sta 1599+63 to Sta 1612+63 - Lt (Protecting Wetland) | 1350 | LF |
| | | Sta 1613+34 to Sta 1615+00 - Lt (Protecting Wetland) | 180 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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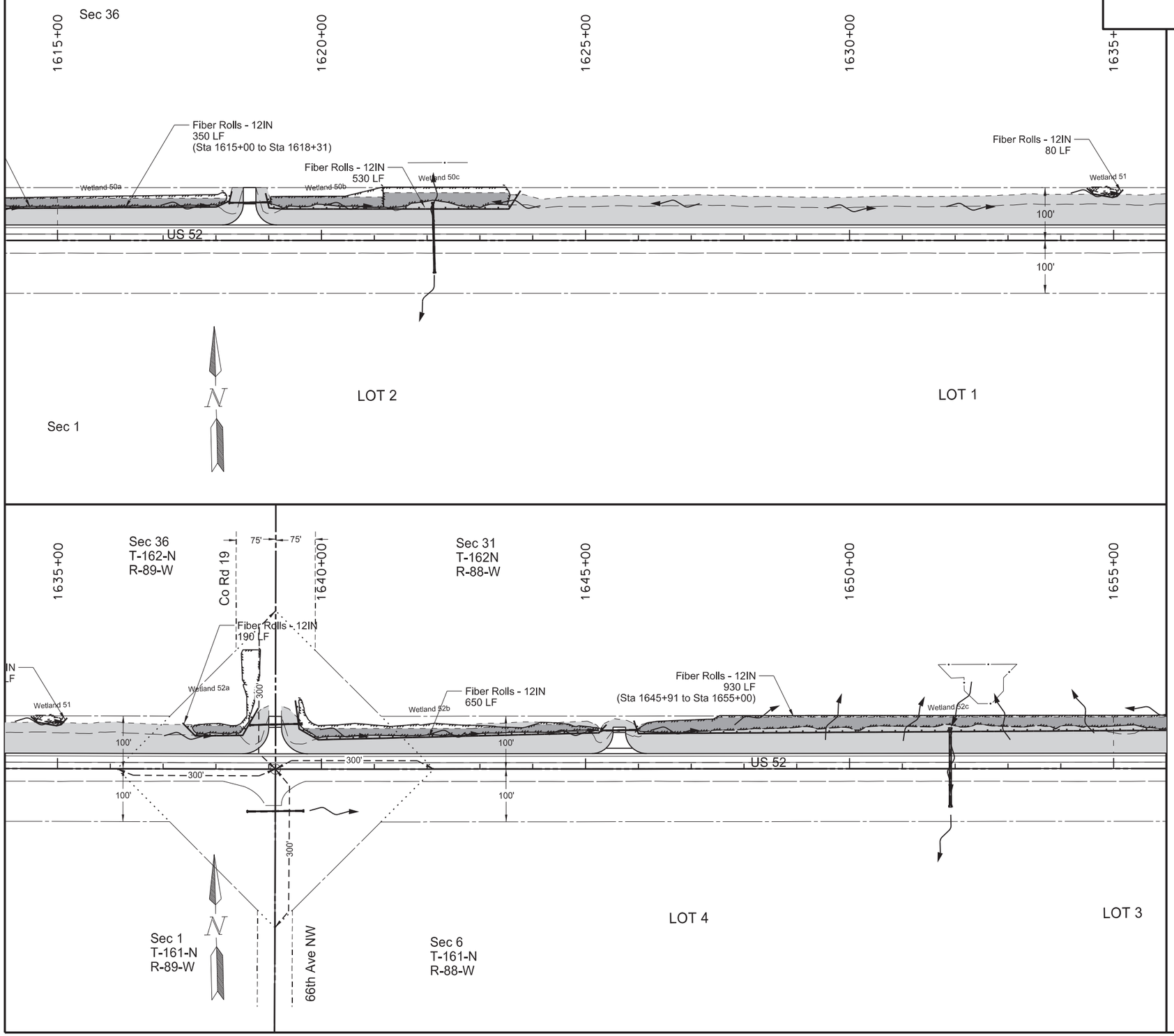
09/01/23

Permanent Erosion Control

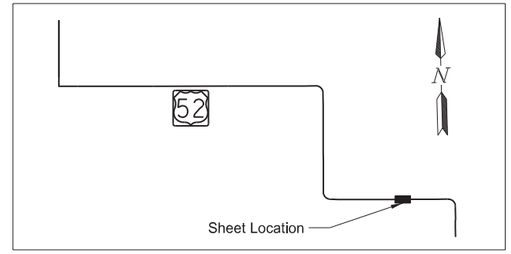
Passing Lane #6 and #7

Sta 1575+00 to Sta 1615+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 23 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1615+00 to Sta 1655+00 - Lt | 4.30 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1615+00 to Sta 1655+00 - Lt | 0.90 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1615+00 to Sta 1655+00 - Lt | 5.20 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1615+00 to Sta 1618+31 - Lt (Protecting Wetland) | 350 | LF |
| | | Sta 1634+49 to Sta 1635+18 - Lt (Protecting Wetland) | 530 | LF |
| | | Sta 1634+49 to Sta 1635+18 - Lt (Protecting Wetland) | 80 | LF |
| | | Sta 1637+36 to Sta 1638+81 - Lt (Protecting Wetland) | 190 | LF |
| | | Sta 1639+50 to Sta 1645+39 - Lt (Protecting Wetland) | 650 | LF |
| | | Sta 1645+91 to Sta 1655+00 - Lt (Protecting Wetland) | 930 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

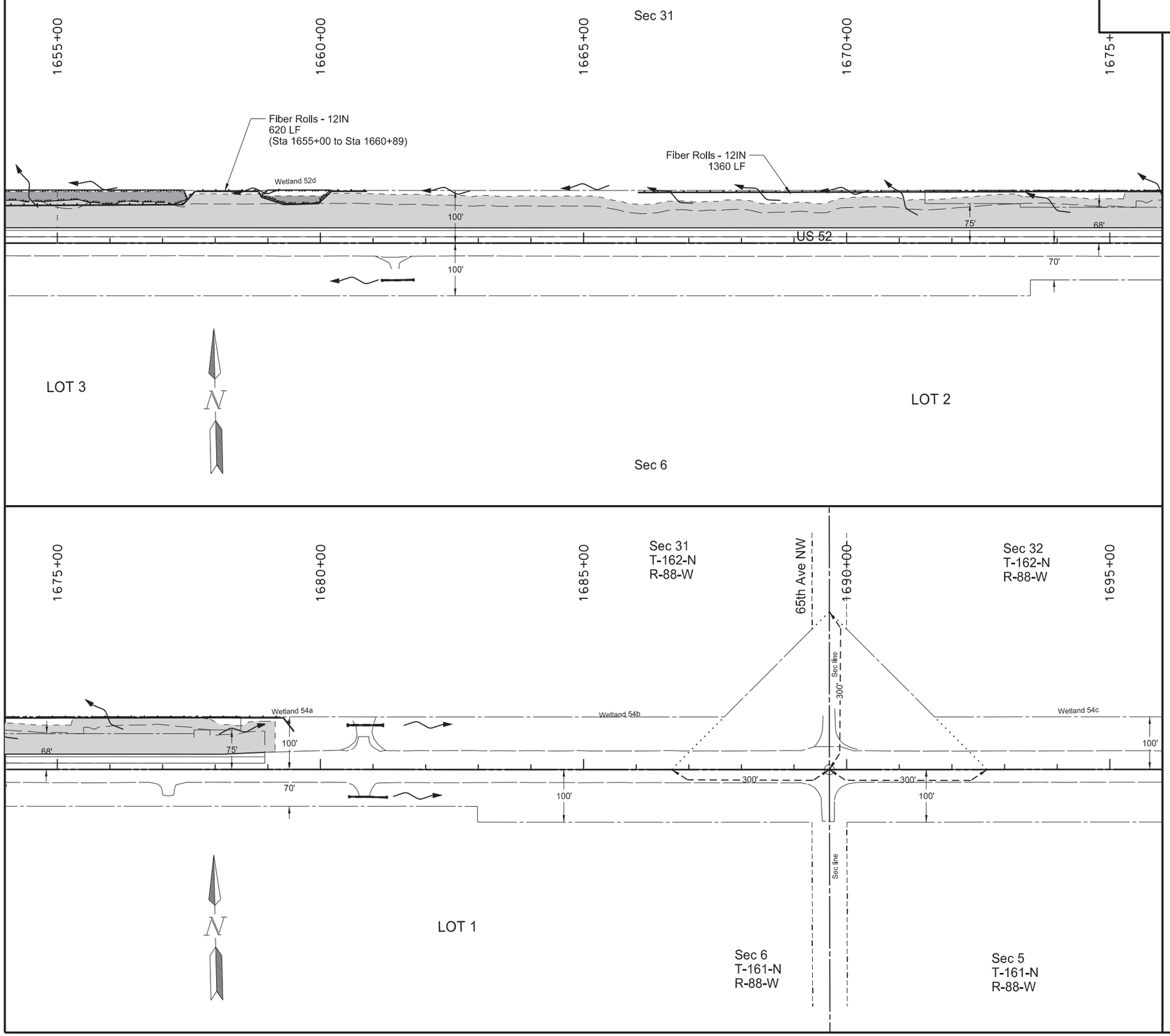
CHAD FRISINGER
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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

Permanent Erosion Control

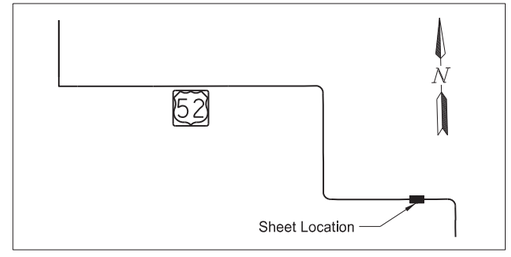
Passing Lane #7

Sta 1615+00 to Sta 1655+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 24 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1655+00 to Sta 1679+14 - Lt | 3.19 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1655+00 to Sta 1679+14 - Lt | 0.14 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1655+00 to Sta 1679+14 - Lt | 3.33 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1655+00 to Sta 1660+89 - Lt | 620 | LF |
| | | (Leaving R/W & Protecting Wetland) | | |
| | | Sta 1666+03 to Sta 1679+50 - Lt | 1360 | LF |
| | | (Leaving R/W & Project Limits) | | |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

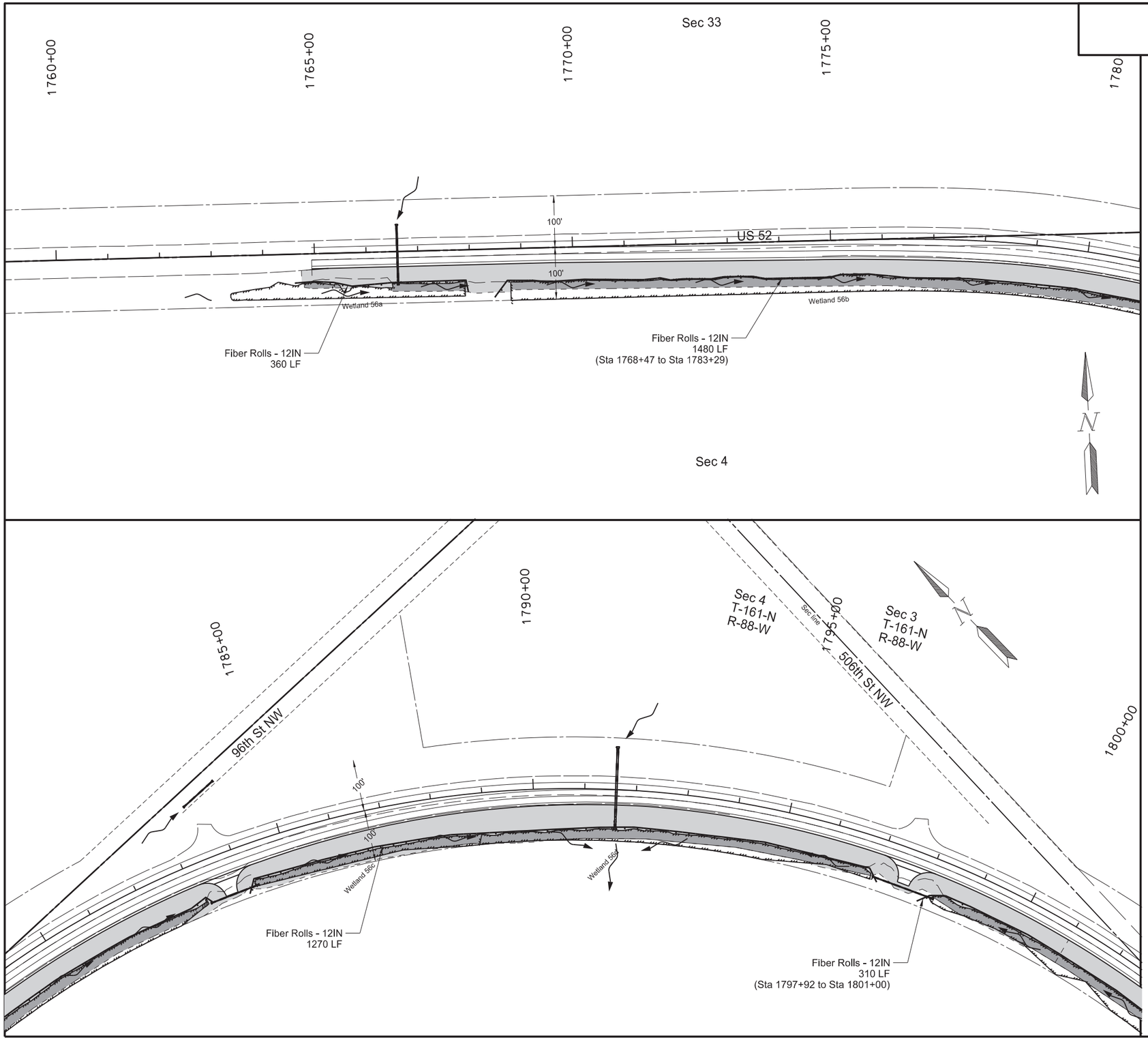
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09/01/23

Permanent Erosion Control

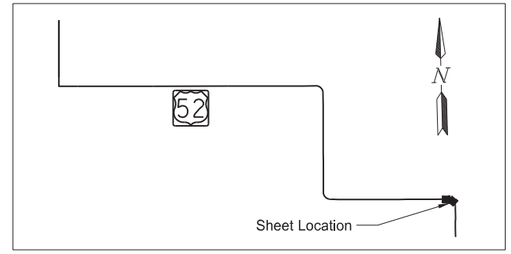
Passing Lane #7

Sta 1655+00 to Sta 1695+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 25 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1764+74 to Sta 1801+00 - Rt | 3.21 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1764+74 to Sta 1801+00 - Rt | 1.12 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1764+74 to Sta 1801+00 - Rt | 4.33 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1764+60 to Sta 1767+97 - Rt (Protecting Wetland) | 360 | LF |
| | | Sta 1768+47 to Sta 1783+29 - Rt (Protecting Wetland) | 1480 | LF |
| | | Sta 1784+06 to Sta 1797+04 - Rt (Protecting Wetland) | 1270 | LF |
| | | Sta 1797+92 to Sta 1801+00 - Rt (Protecting Wetland) | 310 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

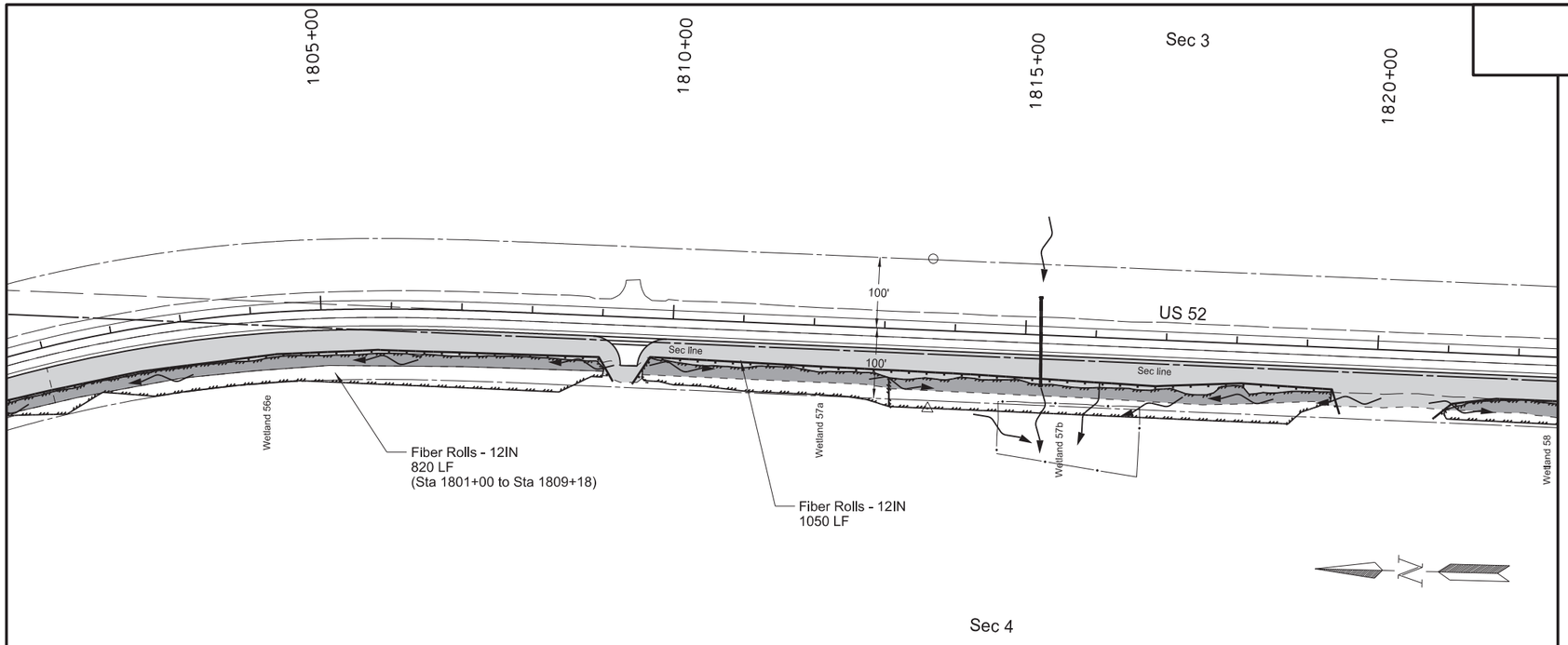
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09/01/23

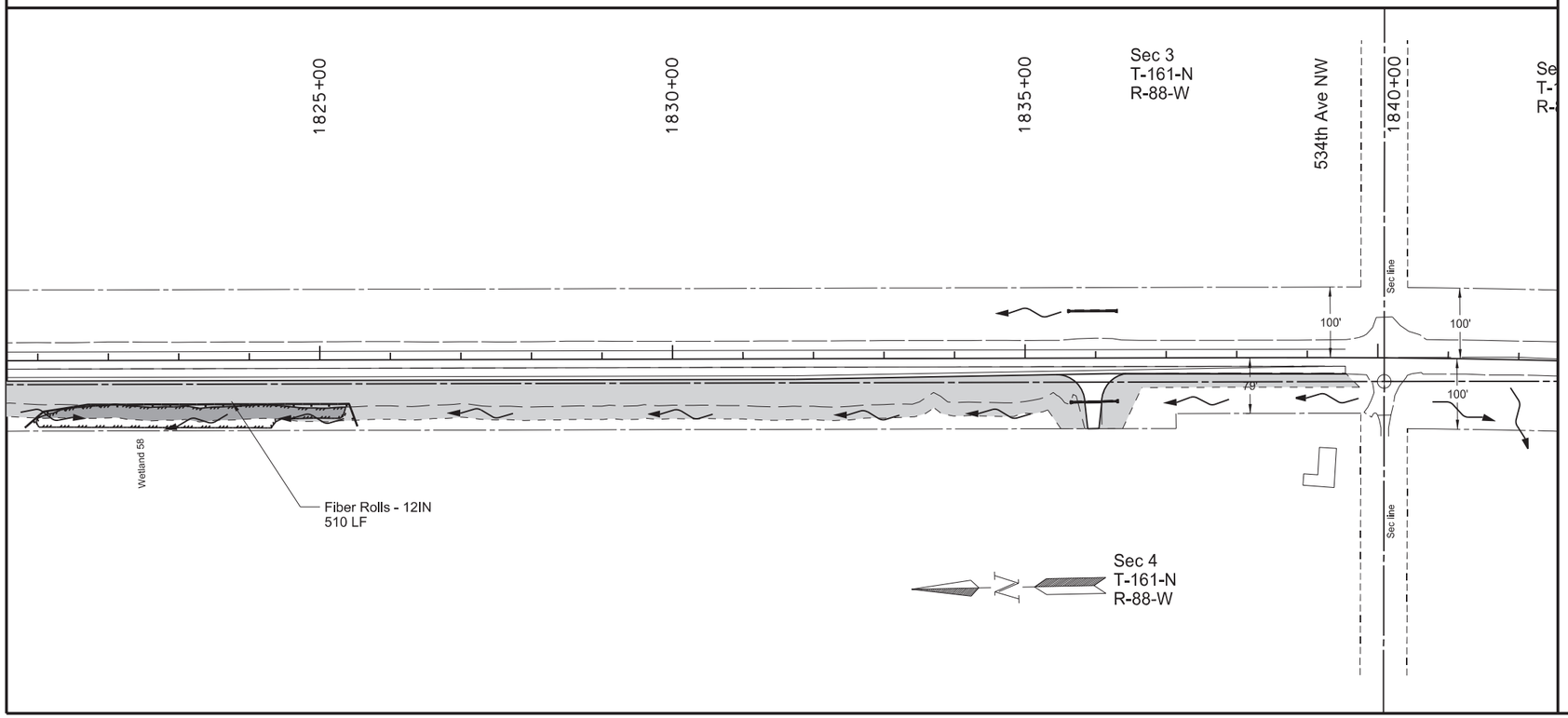
Permanent Erosion Control

Passing Lane #8

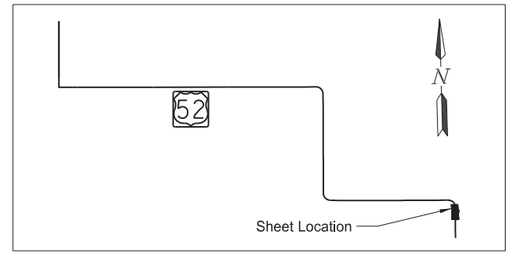
Sta 1760+00 to Sta 1801+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 77 | 26 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 251 | 200 | SEEDING CLASS II | | |
| | | Sta 1801+00 to Sta 1839+75 - Lt | 3.68 | ACRE |
| 251 | 1000 | WETLAND SEED | | |
| | | Sta 1801+00 to Sta 1839+75 - Lt | 0.84 | ACRE |
| 253 | 0061 | SOIL STABILIZATION | | |
| | | Sta 1801+00 to Sta 1839+75 - Lt | 3.72 | ACRE |
| 261 | 0112 | FIBER ROLLS 12IN | | |
| | | Sta 1800+45 to Sta 1809+18 - Rt (Protecting Wetland) | 820 | LF |
| | | Sta 1809+45 to Sta 1819+50 - Rt (Protecting Wetland) | 1050 | LF |
| | | Sta 1820+81 to Sta 1825+53 - Rt (Protecting Wetland) | 510 | LF |




LEGEND

- Fiber Rolls - 12IN
- Seeding Class II & Soil Stabilization
- Wetland Seed & Soil Stabilization

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09/01/23

Permanent Erosion Control

Passing Lane #8

Sta 1801+00 to Sta 1842+00

# PRELIMINARY SURVEY COORDINATE AND CURVE DATA - US 52, STATE LINE TO JCT ND 5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 81 | 1 |

## HORIZONTAL ALIGNMENT

| PNT | STATION | NORTHING | EASTING |
|---|---|---|---|
| US 52 (Chain: SCL52_1) | | | |
| Begin / 1/4 Cor | 208+55.10 | 716077.27 | 1476966.63 |
| Sec Cor | 234+98.24 | 713435.09 | 1476895.68 |
| 1/4 Cor | 261+33.52 | 710800.75 | 1476825.29 |
| Sec Cor | 287+68.95 | 708166.26 | 1476754.85 |
| 1/4 Cor | 314+16.53 | 705519.63 | 1476683.60 |
| Sec Cor | 340+64.03 | 702873.09 | 1476612.42 |
| 1/4 Cor | 367+06.08 | 700232.19 | 1476534.51 |
| PI | 393+13.55 | 697625.83 | 1476458.54 |
| POT | 445+07.08 | 697492.90 | 1481650.38 |
| Station equation US 52 (Chain: SCL52_1 & SCL52_2) | | | |
| Bk (SCL52_1) | 445+07.08 | 697492.90 | 1481650.38 |
| Ahd (SCL52_2) | 443+48.88 | 697492.90 | 1481650.38 |

## CURVE DATA

ARC DEFINITION

## US PUBLIC LAND SURVEY DATA

| CORNER | IRN | NORTHING | EASTING |
|---|---|---|---|
| T-163-N R-92-W | | | |
| W 1/4 Cor Sec 13 | 11-F | 716242.26 | 1471683.32 |
| SW Cor Sec 13 | 11-G | 713595.29 | 1471608.61 |
| SW Cor Sec 25 | 11-L | 703032.13 | 1471316.44 |
| T-163-N R-91-W | | | |
| W 1/4 Cor Sec 18 | 1-F | 716077.27 | 1476966.63 |
| SW Cor Sec 18 | 1-G | 713435.09 | 1476895.68 |
| W 1/4 Cor Sec 19 | 1-H | 710800.75 | 1476825.29 |
| SW Cor Sec 19 | 1-J | 708166.26 | 1476754.85 |
| W 1/4 Cor Sec 30 | 1-K | 705519.63 | 1476683.60 |
| SW Cor Sec 30 | 1-L | 702873.09 | 1476612.42 |
| W 1/4 Cor Sec 31 | 1-M | 700232.19 | 1476534.51 |
| S 1/4 Cor Sec 19 | 2-J | 708095.38 | 1479283.64 |
| S 1/4 Cor Sec 30 | 2-K | 702807.88 | 1479148.56 |
| E 1/4 Cor Sec 18 | 3-F | 715943.92 | 1482135.79 |
| SE Cor Sec 18 | 3-G | 713305.22 | 1482063.42 |
| E 1/4 Cor Sec 19 | 3-H | 710667.86 | 1481994.77 |
| SE Cor Sec 19 | 3-J | 708019.74 | 1481926.10 |
| E 1/4 Cor Sec 30 | 3-K | 705379.64 | 1481858.17 |
| SE Cor Sec 30 | 3-L | 702739.58 | 1481790.68 |

## SURVEY CONTROL POINTS

| PNT | NORTHING | EASTING | ELEV | STATION | OFFSET | MONUMENT DESCRIPTION |
|---|---|---|---|---|---|---|
| Primary Control | | | | | | |
| GPS52-1 | 713454.41 | 1476783.41 | 1949.72' | 234+82 (SCL52_1) | 113' Rt | #5 Rebar w/Alum cap stamped GPS#1 |

## REFERENCE MARKERS

| R Mkr # | NORTHING | EASTING | STATION | OFFSET | ALIGNMENT |
|---|---|---|---|---|---|
| 4 | 715680.82 | 1476924.75 | 212+53 | 31' Rt | SCL52_1 |
| 5 | 710389.57 | 1476772.40 | 265+46 | 42' Rt | SCL52_1 |
| 6 | 705108.01 | 1476633.92 | 318+29 | 39' Rt | SCL52_1 |
| 7 | 699854.88 | 1476486.72 | 367+06 | 37' Rt | SCL52_1 |

NOTES: Sheet 1 of 6

Date Survey Completed 11/04/19

☐ Assumed Coordinates

☒ All coordinates on this sheet are Burke County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9999095

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

INITIALIZING BENCH MARK NDGPS Stations (OPUS)

☒ NAVD-88

☐ _____

☒ GEOID12A ☐ _____

☐ GEOID18

REGISTERED PROFESSIONAL LAND SURVEYOR
KJ JOHNSON
LS-10169
DATE
NORTH DAKOTA
09/14/21

9/14/2021 11:45:25 AM kjjohnson R:\project\70052000.034\survey\Final\081CD_001.dgn

# PRELIMINARY SURVEY COORDINATE AND CURVE DATA - US 52, STATE LINE TO JCT ND 5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 81 | 2 |

## HORIZONTAL ALIGNMENT

| PNT | STATION | NORTHING | EASTING |
|---|---|---|---|
| US 52 (Chain: SCL52_2) | | | |
| Begin/Station equation US 52 (Chain: SCL52_1 & SCL52_2) | | | |
| Bk (SCL52_1) | 445+07.08 | 697492.90 | 1481650.38 |
| Ahd (SCL52_2) | 443+48.88 | 697492.90 | 1481650.38 |
| 1/4 line Xing | 469+94.17 | 697424.36 | 1484294.78 |
| Sec line Xing | 496+39.44 | 697355.81 | 1486939.16 |
| 1/4 line Xing | 522+79.45 | 697289.28 | 1489578.33 |
| Sec line Xing | 549+23.42 | 697222.66 | 1492221.46 |
| 1/4 line Xing | 575+66.53 | 697156.76 | 1494863.75 |
| Sec line Xing | 602+09.91 | 697090.90 | 1497506.30 |
| 1/4 line Xing | 628+51.69 | 697024.37 | 1500147.25 |
| End/Sec line Xing | 654+93.89 | 696957.94 | 1502788.61 |

## CURVE DATA

ARC DEFINITION

## US PUBLIC LAND SURVEY DATA

| CORNER | IRN | NORTHING | EASTING |
|---|---|---|---|
| T-163-N R-91-W | | | |
| SW Cor Sec 32 | 3-N | 697458.92 | 1481649.47 |
| S 1/4 Cor Sec 32 | 4-N | 697390.32 | 1484293.89 |
| NE Cor Sec 32 | 5-L | 702603.92 | 1487082.22 |
| SE Cor Sec 32 | 5-N | 697321.82 | 1486938.23 |
| S 1/4 Cor Sec 33 | 6-N | 697255.29 | 1489577.41 |
| NE Cor Sec 33 | 7-L | 702473.54 | 1492358.62 |
| E 1/4 Cor Sec 33 | 7-M | 699831.20 | 1492289.48 |
| SE Cor Sec 33 | 7-N | 697188.67 | 1492220.58 |
| N 1/4 Cor Sec 34 | 8-L | 702405.84 | 1495000.31 |
| S 1/4 Cor Sec 34 | 8-N | 697122.77 | 1494862.87 |
| E 1/4 Cor Sec 34 | 9-M | 699698.28 | 1497573.85 |
| SE Cor Sec 34 | 9-N | 697056.91 | 1497505.42 |
| N 1/4 Cor Sec 35 | 10-L | 702274.52 | 1500282.97 |
| S 1/4 Cor Sec 35 | 10-N | 696990.38 | 1500146.37 |
| NE Cor Sec 35 | 11-L | 702206.17 | 1502928.48 |
| E 1/4 Cor Sec 35 | 11-M | 699564.97 | 1502858.21 |
| SE Cor Sec 35 | 11-N | 696923.96 | 1502787.70 |
| N 1/4 Cor Sec 36 | 12-L | 702145.52 | 1505567.81 |
| S 1/4 Cor Sec 36 | 12-N | 696856.64 | 1505428.92 |
| T-162-N R-91-W | | | |
| W 1/4 Cor Sec 5 | 3-B | 694821.91 | 1481582.49 |
| SW Cor Sec 5 | 3-C | 692179.45 | 1481510.29 |
| E 1/4 Cor Sec 5 | 5-B | 694691.84 | 1486864.77 |
| SE Cor Sec 5 | 5-C | 692046.84 | 1486792.74 |
| S 1/4 Cor Sec 4 | 6-C | 691977.76 | 1489434.49 |
| E 1/4 Cor Sec 4 | 7-B | 694546.35 | 1492150.56 |
| S 1/4 Cor Sec 3 | 8-C | 691833.32 | 1494719.35 |
| E 1/4 Cor Sec 3 | 9-B | 694405.35 | 1497432.72 |
| S 1/4 Cor Sec 2 | 10-C | 691699.70 | 1500004.88 |
| SE Cor Sec 2 | 11-C | 691637.10 | 1502648.64 |
| S 1/4 Cor Sec 1 | 12-C | 691570.27 | 1505290.27 |

## SURVEY CONTROL POINTS

| PNT | NORTHING | EASTING | ELEV | STATION | OFFSET |
|---|---|---|---|---|---|
| MONUMENT DESCRIPTION | | | | | |
| Primary Control | | | | | |
| GPS52-2 | 697409.43 | 1489590.19 | 1949.82' | 522+88 (SCL52_2) | 120' Lt |
| #5 Rebar w/Alum cap stamped GPS#2 | | | | | |

## REFERENCE MARKERS

| R Mkr # | NORTHING | EASTING | STATION | OFFSET | ALIGNMENT |
|---|---|---|---|---|---|
| 9 | 697372.11 | 1484794.61 | 474+95 | 39' Rt | SCL52_2 |
| 10 | 697234.14 | 1490125.22 | 528+28 | 41' Rt | SCL52_2 |
| 11 | 697104.54 | 1495387.64 | 580+92 | 39' Rt | SCL52_2 |
| 12 | 696971.97 | 1500657.06 | 633+63 | 40' Rt | SCL52_2 |

NOTES: Sheet 2 of 6

Date Survey Completed 11/04/19

☐ Assumed Coordinates

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

INITIALIZING BENCH MARK NDGPS Stations (OPUS)

☒ NAVD-88

☐ _____

☒ GEOID12A ☐ _____

☐ GEOID18

REGISTERED PROFESSIONAL LAND SURVEYOR
KJELL H. JOHNSON
LS-10169
DATE
NORTH DAKOTA
09/14/21

# PRELIMINARY SURVEY COORDINATE AND CURVE DATA - US 52, STATE LINE TO JCT ND 5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 81 | 3 |

## HORIZONTAL ALIGNMENT

| PNT | STATION | NORTHING | EASTING |
|---|---|---|---|
| US 52 (Chain: SCL52_3) | | | |
| Begin | 864+43.18 | 696439.88 | 1523753.40 |
| 1/4 line Xing | 890+78.33 | 696374.44 | 1526387.74 |
| Sec line Xing | 917+28.57 | 696309.33 | 1529037.18 |
| 1/4 line Xing | 943+60.07 | 696241.47 | 1531667.81 |
| Sec line Xing | 969+96.81 | 696174.09 | 1534303.69 |
| 1/4 line Xing | 996+34.33 | 696107.17 | 1536940.35 |
| Twp line Xing | 1022+96.81 | 696039.87 | 1539592.08 |
| PI | 1033+87.51 | 696011.42 | 1540692.31 |
| PI | 1048+54.91 | 695973.48 | 1542159.22 |
| Station equation US 52 (SCL52_3) at ND 8(EX 8_2) Sec line Xing | | | |
| ND 8 | 10765+28.64 | 695904.94 | 1544809.51 |
| US 52 | 1075+06.08 | 695904.94 | 1544809.51 |
| TS | 1107+03.44 | 695839.16 | 1548006.19 |
| SC | 1111+03.44 | 695816.99 | 1548405.38 |
| PI SCS52_1 | 1128+20.90 | 695795.59 | 1550123.21 |
| CS | 1137+07.74 | 694078.45 | 1550070.36 |
| ST | 1141+07.74 | 693678.67 | 1550075.26 |
| 1/4 line Xing | 1146+66.37 | 693120.19 | 1550062.61 |
| Sec line Xing | 1173+04.63 | 690482.69 | 1549999.43 |
| 1/4 line Xing | 1199+45.42 | 687842.64 | 1549936.73 |
| Sec line Xing | 1225+86.20 | 685202.60 | 1549874.03 |
| 1/4 line Xing | 1252+29.60 | 682559.89 | 1549813.73 |
| Sec line Xing | 1278+75.24 | 679914.93 | 1549753.73 |
| 1/4 line Xing | 1305+19.06 | 677271.79 | 1549693.54 |
| Sec line Xing | 1331+52.39 | 674639.15 | 1549633.58 |
| 1/4 line Xing | 1357+87.64 | 672004.54 | 1549575.57 |
| Sec line Xing | 1384+22.86 | 669369.95 | 1549517.55 |
| 1/4 line Xing | 1410+74.58 | 666718.92 | 1549457.86 |
| Equation: Sta 1410+74.58 (BK) = Sta 1410+71.73 (AHD) | | | |
| 1/4 line Xing | 1410+71.73 | 666718.93 | 1549457.84 |

## CURVE DATA

| ARC DEFINITION | |
|---|---|
| SCS52_1 | |
| PI Sta = 1128+20.90 | |
| Delta = 90° 07' 07" (RT) | |
| Da = 2° 59' 59" | |
| R = 1,910.08' | |
| L = 2,604.30' | |
| LS = 400.00 | |
| Sc = 5° 59' 58" | |
| Ts = 2,117.46 | |

## US PUBLIC LAND SURVEY DATA

| CORNER | IRN | NORTHING | EASTING |
|---|---|---|---|
| T-163-N R-90-W | | | |
| W 1/4 Cor Sec 34 | 7-M | 699044.60 | 1523813.31 |
| N 1/4 Cor Sec 34 | 8-L | 701619.15 | 1526516.61 |
| E 1/4 Cor Sec 34 | 9-M | 698910.78 | 1529094.99 |
| N 1/4 Cor Sec 35 | 10-L | 701488.52 | 1531793.34 |
| E 1/4 Cor Sec 35 | 11-M | 698781.09 | 1534365.91 |
| N 1/4 Cor Sec 36 | 12-L | 701356.85 | 1537074.03 |
| NE Sec Cor 36 | 13-L | 701292.31 | 1539715.88 |
| T-162-N R-90-W | | | |
| NW Cor Sec 3 | 7-A | 696405.89 | 1523752.62 |
| W 1/4 Cor Sec 3 | 7-B | 693764.42 | 1523686.01 |
| SW Cor Sec 3 | 7-C | 691121.31 | 1523618.54 |
| N 1/4 Cor Sec 3 | 8-A | 696340.45 | 1526386.91 |
| S 1/4 Cor Sec 3 | 8-C | 691055.11 | 1526263.62 |
| NE Cor Sec 3 | 9-A | 696275.34 | 1529036.43 |
| E 1/4 Cor Sec 3 | 9-B | 693629.45 | 1528972.12 |
| SE Cor Sec 3 | 9-C | 690988.37 | 1528907.14 |
| N 1/4 Cor Sec 2 | 10-A | 696207.48 | 1531666.99 |
| S 1/4 Cor Sec 2 | 10-C | 690922.55 | 1531539.43 |
| NE Cor Sec 2 | 11-A | 696140.10 | 1534302.88 |
| E 1/4 Cor Sec 2 | 11-B | 693500.85 | 1534236.34 |
| SE Cor Sec 2 | 11-C | 690857.14 | 1534170.47 |
| N 1/4 Cor Sec 1 | 12-A | 696073.15 | 1536939.51 |
| NE Sec Cor 1 | 13-A | 696005.88 | 1539591.28 |
| SE Sec Cor 1 | 13-C | 690726.29 | 1539461.40 |
| T-162-N R-89-W | | | |
| NW Cor Sec 31 | 1-L | 701292.31 | 1539715.88 |
| NW Sec Cor 5 | 3-A | 695878.95 | 1544808.97 |
| W 1/4 Cor Sec 5 | 3-B | 693243.80 | 1544743.61 |
| SW Sec Cor 5 | 3-C | 690598.07 | 1544682.83 |

## SURVEY CONTROL POINTS

| PNT | NORTHING | EASTING | ELEV | STATION | OFFSET |
|---|---|---|---|---|---|
| MONUMENT DESCRIPTION | | | | | |
| Primary Control | | | | | |
| GPS52-3 | 696152.14 | 1531654.28 | 1935.68' | 943+49 | 90' Rt |
| #5 Rebar w/Alum cap stamped GPS#3 (SCL52_3) | | | | | |
| GPS52-4 | 691937.12 | 1550117.78 | 1916.97' | 1158+48 | 83' Lt |
| #5 Rebar w/Alum cap stamped GPS#4 (SCL52_3) | | | | | |
| GPS52-5 | 677255.56 | 1549602.02 | 1940.52' | 1305+37 | 91' Rt |
| #5 Rebar w/Alum cap stamped GPS#5 (SCL52_3) | | | | | |

## REFERENCE MARKERS

| R Mkr # | NORTHING | EASTING | STATION | OFFSET | ALIGNMENT |
|---|---|---|---|---|---|
| 17 | 696319.49 | 1527040.75 | 897+32 | 39' Rt | SCL52_3 |
| 18 | 696185.07 | 1532308.07 | 950+02 | 40' Rt | SCL52_3 |
| 19 | 696052.05 | 1537600.95 | 1002+96 | 38' Rt | SCL52_3 |
| 21 | 695796.60 | 1548166.74 | 1108+65 | 38' Rt | SCL52_3 |
| 22 | 691634.65 | 1549990.60 | 1161+53 | 36' Rt | SCL52_3 |
| 23 | 686374.12 | 1549864.76 | 1214+15 | 37' Rt | SCL52_3 |
| 24 | 681072.61 | 1549742.74 | 1267+18 | 37' Rt | SCL52_3 |
| 25 | 675807.54 | 1549621.82 | 1319+85 | 38' Rt | SCL52_3 |
| 26 | 670536.05 | 1549504.16 | 1372+57 | 39' Rt | SCL52_3 |
| 27 | 665264.78 | 1549573.22 | 1425+33 | 39' Rt | SCL52_3 |

NOTES: Sheet 3 of 6

Date Survey Completed 11/04/19

☐ Assumed Coordinates

☒ All coordinates on this sheet are Burke County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9999095

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

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88

☐ _____

☒ GEOID12A ☐ _____

☐ GEOID18

REGISTERED PROFESSIONAL LAND SURVEYOR
BRUCE P ZELMER
Bruce P. Zelmer
LS-3756
DATE: 3-11-21
* NORTH DAKOTA *

# PRELIMINARY SURVEY COORDINATE AND CURVE DATA - US 52, STATE LINE TO JCT ND 5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 81 | 4 |

## HORIZONTAL ALIGNMENT

| PNT | STATION | NORTHING | EASTING |
|---|---|---|---|
| US 52 (Chain: SCL52_3) | | | |
| TS | 1414+96.77 | 666293.98 | 1549448.27 |
| SC | 1418+96.77 | 665894.21 | 1549453.22 |
| Station equation US 52 (SCL52_3) at ND 8(EX8_1) | | | |
| ND 8 | 10408+14.72 | 664666.40 | 1550041.09 |
| US 52 | 1432+88.64 | 664666.40 | 1550041.09 |
| PI SCS52_2 | 1435+30.40 | 664260.87 | 1549402.48 |
| CS | 1444+15.71 | 664168.42 | 1551033.99 |
| ST | 1448+15.71 | 664128.49 | 1551431.80 |
| 1/4 line Xing | 1454+04.37 | 664090.18 | 1552019.21 |
| PC | 1468+39.40 | 663996.77 | 1553451.20 |
| PI 52_3 | 1473+19.67 | 663965.50 | 1553930.45 |
| PT | 1477+99.81 | 663954.35 | 1554410.60 |
| Sec Cor | 1480+46.52 | 663948.62 | 1554657.24 |
| 1/4 Cor | 1506+82.36 | 663887.52 | 1557292.38 |
| Sec Cor | 1533+39.43 | 663825.96 | 1559948.73 |
| 1/4 Cor | 1559+86.58 | 663763.01 | 1562595.13 |
| Sec Cor | 1586+25.79 | 663700.23 | 1565233.60 |
| 1/4 Cor | 1612+69.21 | 663634.35 | 1567876.20 |
| Sec Cor | 1639+12.75 | 663568.43 | 1570518.91 |
| 1/4 Cor | 1663+25.04 | 663516.34 | 1572930.64 |
| Sec Cor | 1689+67.12 | 663459.39 | 1575572.11 |
| 1/4 Cor | 1716+02.50 | 663405.23 | 1578206.93 |
| Sec Cor | 1742+36.97 | 663351.21 | 1580840.85 |
| 1/4 Cor | 1768+78.86 | 663291.13 | 1583482.05 |
| TS | 1774+50.73 | 663278.02 | 1584053.77 |
| SC | 1778+50.73 | 663254.91 | 1584452.91 |
| PI 52_4 | 1795+54.69 | 663229.77 | 1586157.18 |
| CS | 1804+41.54 | 661525.89 | 1586112.67 |
| ST | 1808+41.54 | 661126.14 | 1586119.46 |
| 1/4 line Xing | 1813+65.56 | 660602.21 | 1586110.06 |
| PC | 1838+70.97 | 658097.20 | 1586065.26 |
| PI 52_5 | 1841+94.00 | 657774.23 | 1586059.48 |
| PT | 1845+16.92 | 657451.84 | 1586039.15 |

NOTES: Sheet 4 of 6

## CURVE DATA

ARC DEFINITION

| SCS52_2 | Curve 52_3 |
|---|---|
| PI Sta = 1435+30.40 | PI Sta = 1473+19.67 |
| Delta = 87° 33' 29" (LT) | Delta = 2° 24' 04" (LT) |
| Da = 2° 59' 59" | Da = 0° 15' 00" |
| R = 1,910.08' | R = 22,918.33' |
| L = 2,518.94' | T = 480.27' |
| LS = 400.00 | L = 960.41' |
| Sc = 5° 59' 58" | |
| Ts = 2,033.63 | |
| SCS52_4 | Curve 52_5 |
| PI Sta = 1795+54.69 | PI Sta = 1841+94.00 |
| Delta = 89° 42' 47" (RT) | Delta = 2° 35' 02" (RT) |
| Da = 2° 59' 59" | Da = 0° 24' 00" |
| R = 1,910.10' | R = 14,323.97' |
| L = 2,590.82' | T = 323.03' |
| LS = 400.00 | L = 645.95' |
| Sc = 5° 59' 57" | |
| Ts = 2,103.96 | |

Date Survey Completed 11/04/19

## US PUBLIC LAND SURVEY DATA

| CORNER | IRN | NORTHING | EASTING |
|---|---|---|---|
| T-162-N R-89-W | | | |
| SW Sec Cor 8 | 3-E | 685320.94 | 1544562.08 |
| W 1/4 Cor Sec 17 | 3-F | 682680.28 | 1544500.56 |
| SW Sec Cor 17 | 3-G | 680040.11 | 1544440.27 |
| W 1/4 Cor Sec 20 | 3-H | 677399.37 | 1544379.62 |
| SW Sec Cor 20 | 3-J | 674758.25 | 1544320.22 |
| W 1/4 Cor Sec 29 | 3-K | 672112.79 | 1544255.99 |
| SW Sec Cor 29 | 3-L | 669467.57 | 1544193.23 |
| SW Sec Cor 32 | 3-N | 664187.43 | 1544068.50 |
| N 1/4 Cor Sec 5 | 4-A | 695824.56 | 1547452.72 |
| S 1/4 Cor Sec 8 | 4-E | 685262.00 | 1547205.01 |
| S 1/4 Cor Sec 32 | 4-N | 664127.96 | 1546726.57 |
| NW Sec Cor 4 | 5-A | 695770.13 | 1550096.62 |
| W 1/4 Cor Sec 4 | 5-B | 693120.72 | 1550036.61 |
| SE Sec Cor 5 | 5-C | 690483.17 | 1549973.43 |
| W 1/4 Cor Sec 9 | 5-D | 687843.21 | 1549910.74 |
| SW Sec Cor 9 | 5-E | 685203.22 | 1549848.04 |
| E 1/4 Cor Sec 17 | 5-F | 682560.49 | 1549787.74 |
| NW Sec Cor 21 | 5-G | 679915.51 | 1549727.74 |
| E 1/4 Cor Sec 20 | 5-H | 677272.41 | 1549667.60 |
| SW Sec Cor 21 | 5-J | 674639.77 | 1549607.59 |
| E 1/4 Cor Sec 29 | 5-K | 672005.18 | 1549549.52 |
| NE Sec Cor 32 | 5-L | 669370.59 | 1549491.56 |
| E 1/4 Cor Sec 32 | 5-M | 666719.57 | 1549431.87 |
| SE Sec Cor 32 | 5-N | 664068.57 | 1549372.14 |
| S 1/4 Cor Sec 4 | 6-C | 690432.17 | 1552619.63 |
| S 1/4 Cor Sec 9 | 6-E | 685141.97 | 1552496.08 |
| S 1/4 Cor Sec 16 | 6-G | 679856.58 | 1552375.08 |
| S 1/4 Cor Sec 21 | 6-J | 674576.70 | 1552257.33 |
| S 1/4 Cor Sec 28 | 6-L | 669305.40 | 1552139.29 |
| S 1/4 Cor Sec 33 | 6-N | 664010.00 | 1552017.37 |

☐ Assumed Coordinates

☒ All coordinates on this sheet are Burke County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9999095

## SURVEY CONTROL POINTS

| PNT | NORTHING | EASTING | ELEV | STATION | OFFSET |
|---|---|---|---|---|---|
| MONUMENT DESCRIPTION | | | | | |
| Primary Control | | | | | |
| GPS52-6 | 664032.15 | 1554678.82 | 1946.48' | 1480+66 | 84' Lt |
| #5 Rebar w/Alum cap stamped GPS#6 | | | | (SCL52_3) | |
| GPS52-7 | 663391.55 | 1570498.43 | 1920.42' | 1638+97 | 177' Rt |
| #5 Rebar w/Alum cap stamped GPS#7 | | | | (SCL52_3) | |
| GPS52-8 | 662241.07 | 1586071.40 | 1912.18' | 1797+63 | 149' Lt |
| #5 Rebar w/Alum cap stamped GPS#8 | | | | (SCL52_3) | |

## REFERENCE MARKERS

| R Mkr # | NORTHING | EASTING | STATION | OFFSET | ALIGNMENT |
|---|---|---|---|---|---|
| 28 | 663915.22 | 1554446.80 | 1478+37 | 38' Rt | SCL52_3 |
| 29 | 663792.43 | 1559758.24 | 1531+50 | 38' Rt | SCL52_3 |
| 30 | 663670.84 | 1565013.46 | 1584+06 | 35' Rt | SCL52_3 |
| 31 | 663536.57 | 1570283.82 | 1636+79 | 38' Rt | SCL52_3 |
| 32 | 663408.87 | 1575635.93 | 1690+32 | 49' Rt | SCL52_3 |
| 33 | 663293.77 | 1580762.98 | 1741+60 | 59' Rt | SCL52_3 |
| 34 | 662401.57 | 1585749.83 | 1794+72 | 51' Rt | SCL52_3 |
| 35 | 657148.21 | 1585975.41 | 1848+23 | 45' Rt | SCL52_3 |

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

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88
☐ _____

☒ GEOID12A ☐ _____
☐ GEOID18

REGISTERED PROFESSIONAL LAND SURVEYOR
BRUCE P ZELMER
Bruce P. Zelmer
LS-3756
DATE: 3-11-21
* NORTH DAKOTA *

# PRELIMINARY SURVEY COORDINATE AND CURVE DATA - US 52, STATE LINE TO JCT ND 5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 81 | 5 |

## HORIZONTAL ALIGNMENT

| PNT | STATION | NORTHING | EASTING |
|---|---|---|---|
| US 52 (Chain: SCL52_3) | | | |
| PC | 1846+58.85 | 657310.18 | 1586030.22 |
| PI 52_6 | 1849+73.40 | 656996.26 | 1586010.42 |
| PT | 1852+87.84 | 656681.77 | 1586004.42 |
| 1/4 Cor | 1866+51.00 | 655318.87 | 1585978.44 |
| End/Sec Cor | 1892+93.97 | 652676.31 | 1585931.38 |
| ND 8 (Chain: EX8_1) | | | |
| Begin | 10399+47.07 | 664067.66 | 1549413.13 |
| End/US 52 | 10408+14.72 | 664666.40 | 1550041.09 |
| ND 8 (Chain: EX8_2) | | | |
| Begin/US 52 | 10765+28.64 | 695904.94 | 1544809.51 |
| End | 10791+89.09 | 698564.82 | 1544864.25 |

## CURVE DATA

| ARC DEFINITION | |
|---|---|
| Curve 52_6 | |
| PI Sta = 1849+73.40 | |
| Delta = 2° 30' 57" (LT) | |
| Da = 0° 24' 00" | |
| R = 14,323.97' | |
| T = 314.55' | |
| L = 628.99' | |

## US PUBLIC LAND SURVEY DATA

| CORNER | IRN | NORTHING | EASTING |
|---|---|---|---|
| T-162-N R-89-W | | | |
| NE Sec Cor 4 | 7-A | 695654.94 | 1555386.03 |
| E 1/4 Cor Sec 4 | 7-B | 693013.00 | 1555327.68 |
| E 1/4 Cor Sec 9 | 7-D | 687727.94 | 1555205.00 |
| E 1/4 Cor Sec 16 | 7-F | 682439.88 | 1555082.19 |
| E 1/4 Cor Sec 21 | 7-H | 677155.62 | 1554968.02 |
| E 1/4 Cor Sec 28 | 7-K | 671875.08 | 1554844.44 |
| E 1/4 Cor Sec 33 | 7-M | 666586.44 | 1554719.53 |
| N 1/4 Cor Sec 34 | 8-L | 669172.76 | 1557427.07 |
| S 1/4 Cor Sec 34 | 8-N | 663887.52 | 1557292.38 |
| NE Sec Cor 34 | 9-L | 669105.02 | 1560071.35 |
| SE Sec Cor 34 | 9-N | 663825.96 | 1559948.73 |
| S Cor Sec 35 | 10-N | 663763.01 | 1562595.13 |
| NE Sec Cor 35 | 11-L | 668982.32 | 1565359.53 |
| N 1/4 Cor Sec 36 | 12-L | 668920.59 | 1568000.34 |
| S 1/4 Cor 36 | 12-N | 663634.35 | 1567876.20 |
| NE Sec Cor 36 | 13-L | 668840.76 | 1570644.64 |
| T-161-N R-89-W | | | |
| S 1/4 Cor Sec 4 | 6-C | 658715.92 | 1551889.88 |
| NE Sec Cor 4 | 7-A | 663948.62 | 1554657.24 |
| SE Sec Cor 4 | 7-C | 658655.11 | 1554532.35 |
| S 1/4 Cor Sec 3 | 8-C | 658597.59 | 1557177.52 |
| E 1/4 Cor Sec 3 | 9-B | 661186.18 | 1559885.60 |
| S 1/4 Cor Sec 2 | 10-C | 658480.62 | 1562463.35 |
| NW Sec Cor 1 | 11-A | 663700.23 | 1565233.60 |
| SW Sec Cor 1 | 11-C | 658421.39 | 1565105.91 |
| S Cor Sec 1 | 12-C | 658355.28 | 1567744.25 |
| NE Sec Cor 1 | 13-A | 663568.43 | 1570518.91 |

## SURVEY CONTROL POINTS

| PNT | NORTHING | EASTING | ELEV | STATION | OFFSET | MONUMENT DESCRIPTION |
|---|---|---|---|---|---|---|

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

☐ Assumed Coordinates

☒ All coordinates on this sheet are Burke County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9999095

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88
☐ _____

☒ GEOID12A ☐ _____
☐ GEOID18

REGISTERED PROFESSIONAL LAND SURVEYOR
BRUCE P ZELMER
Bruce P. Zelmer
LS-3756
DATE: 3-11-21
* NORTH DAKOTA *

NOTES: Sheet 5 of 6

Date Survey Completed 11/04/19

# PRELIMINARY SURVEY COORDINATE AND CURVE DATA - US 52, STATE LINE TO JCT ND 5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 81 | 6 |

## HORIZONTAL ALIGNMENT

| PNT | STATION | NORTHING | EASTING |
|---|---|---|---|

## CURVE DATA

| ARC DEFINITION | |
|---|---|

## US PUBLIC LAND SURVEY DATA

| CORNER | IRN | NORTHING | EASTING |
|---|---|---|---|
| T-162-N R-88-W | | | |
| N 1/4 Cor 31 | 2-L | 668800.19 | 1573040.09 |
| S 1/4 Cor Sec 31 | 2-N | 663516.34 | 1572930.64 |
| E 1/4 Cor Sec 31 | 3-M | 666101.57 | 1575627.38 |
| SE Sec Cor 31 | 3-N | 663459.39 | 1575572.11 |
| S 1/4 Cor 32 | 4-N | 663405.23 | 1578206.93 |
| NE Sec Cor 32 | 5-L | 668631.52 | 1580957.31 |
| E 1/4 Cor Sec 32 | 5-M | 665990.33 | 1580899.12 |
| SW Sec Cor 33 | 5-N | 663351.21 | 1580840.85 |
| N 1/4 Cor 33 | 6-L | 668573.96 | 1583596.25 |
| S 1/4 Cor 33 | 6-N | 663291.13 | 1583482.05 |
| T-161-N R-88-W | | | |
| SW Sec Cor 6 | 1-C | 658288.60 | 1570382.58 |
| S 1/4 Cor 6 | 2-C | 658238.44 | 1572833.61 |
| SE Sec Cor 6 | 3-C | 658189.93 | 1575472.67 |
| E 1/4 Cor 5 | 5-B | 660717.87 | 1580797.12 |
| SE Sec Cor 5 | 5-C | 658074.99 | 1580752.38 |
| S 1/4 Cor 4 | 6-C | 658019.39 | 1583388.81 |
| NE Sec Cor 4 | 7-A | 663230.36 | 1586123.06 |
| E 1/4 Cor Sec 4 | 7-B | 660602.99 | 1586075.97 |
| SE Sec Cor 4 | 7-C | 657959.67 | 1586028.79 |
| E 1/4 Cor 9 | 7-D | 655318.87 | 1585978.44 |
| SW Sec Cor 10 | 7-E | 652676.31 | 1585931.38 |
| E 1/4 Cor 3 | 9-B | 660490.36 | 1591358.01 |
| SE Sec Cor 3 | 9-C | 657848.26 | 1591308.63 |

## SURVEY CONTROL POINTS

| PNT | NORTHING | EASTING | ELEV | STATION | OFFSET | MONUMENT DESCRIPTION |
|---|---|---|---|---|---|---|

NOTES: Sheet 6 of 6

Date Survey Completed 11/04/19

☐ Assumed Coordinates

☒ All coordinates on this sheet are Burke County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota North Zone Combination Factor (cf) = 0.9999095

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

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88

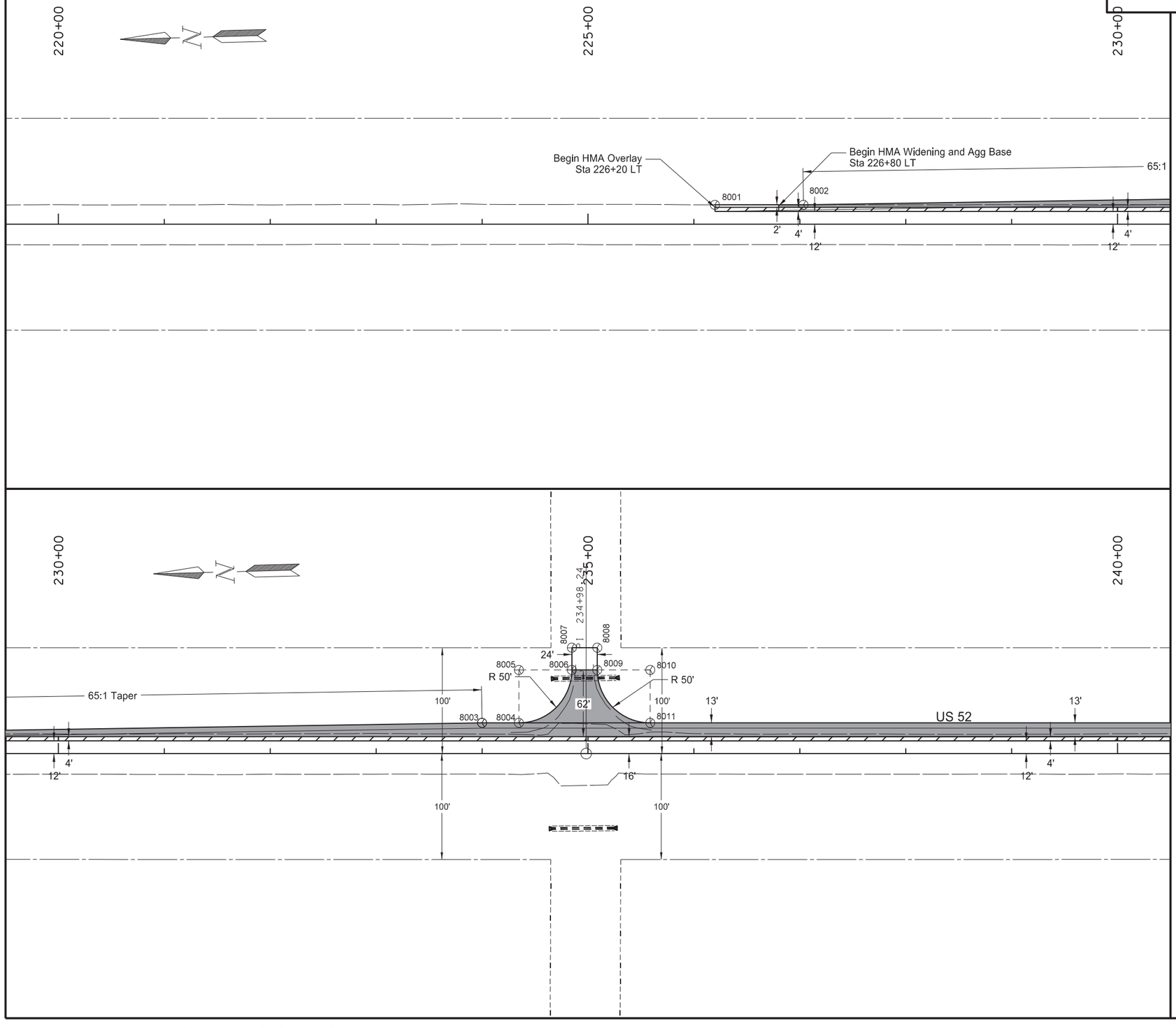
☐ _____

☒ GEOID12A ☐ _____

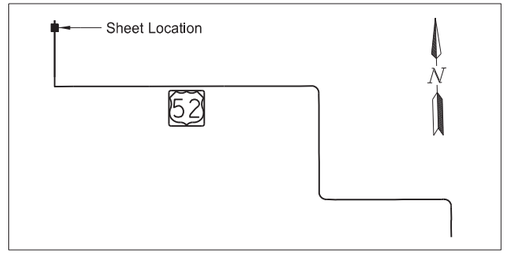
☐ GEOID18

REGISTERED PROFESSIONAL LAND SURVEYOR
BRUCE P ZELMER
Bruce P. Zelmer
LS-3756
DATE: 3-11-21
* NORTH DAKOTA *

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 1 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8001 | 714312.70 | 1476937.53 | 226+19.82 | -18.27 |
| 8002 | 714229.14 | 1476935.29 | 227+03.41 | -18.28 |
| 8003 | 713532.55 | 1476927.31 | 233+99.96 | -29.00 |
| 8004 | 713497.77 | 1476926.38 | 234+34.75 | -29.00 |
| 8005 | 713496.43 | 1476976.36 | 234+34.75 | -79.00 |
| 8006 | 713446.45 | 1476975.02 | 234+84.75 | -79.01 |
| 8007 | 713445.89 | 1476996.01 | 234+84.75 | -100.00 |
| 8008 | 713421.90 | 1476995.36 | 235+08.76 | -100.00 |
| 8009 | 713422.46 | 1476974.37 | 235+08.76 | -79.00 |
| 8010 | 713372.48 | 1476973.03 | 235+58.76 | -79.00 |
| 8011 | 713373.82 | 1476923.05 | 235+58.75 | -29.00 |



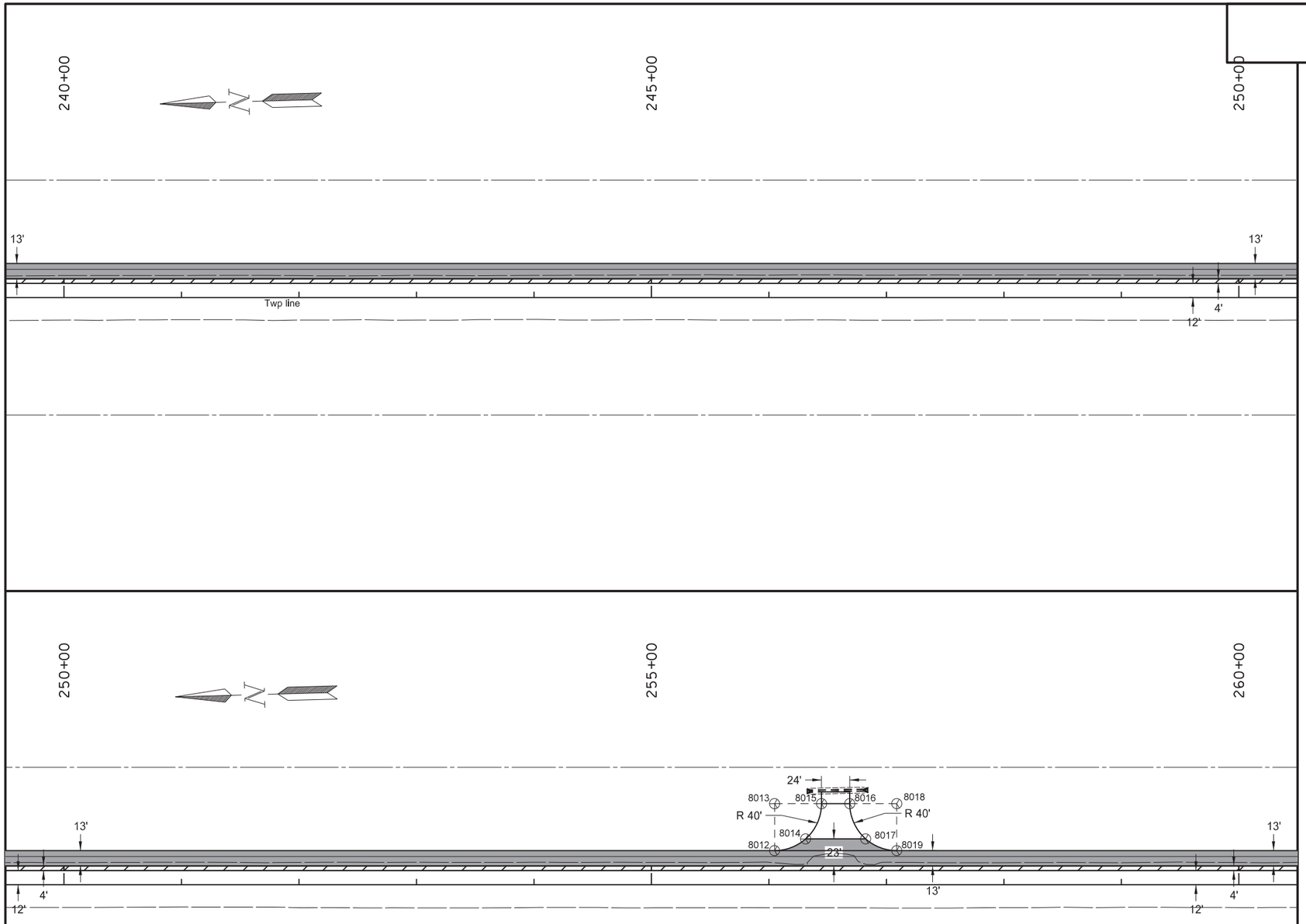

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Survey Data

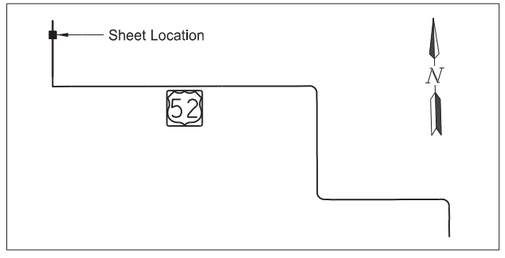
Passing Lane #1

Sta 220+00 to Sta 240+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 2 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8012 | 711328.52 | 1476868.40 | 256+04.78 | -29.00 |
| 8013 | 711327.45 | 1476908.39 | 256+04.78 | -69.00 |
| 8014 | 711301.80 | 1476877.69 | 256+31.24 | -39.00 |
| 8015 | 711287.46 | 1476907.32 | 256+44.78 | -69.00 |
| 8016 | 711263.47 | 1476906.68 | 256+68.78 | -69.00 |
| 8017 | 711250.74 | 1476876.33 | 256+82.33 | -39.00 |
| 8018 | 711223.49 | 1476905.61 | 257+08.78 | -69.00 |
| 8019 | 711224.56 | 1476865.63 | 257+08.78 | -29.00 |



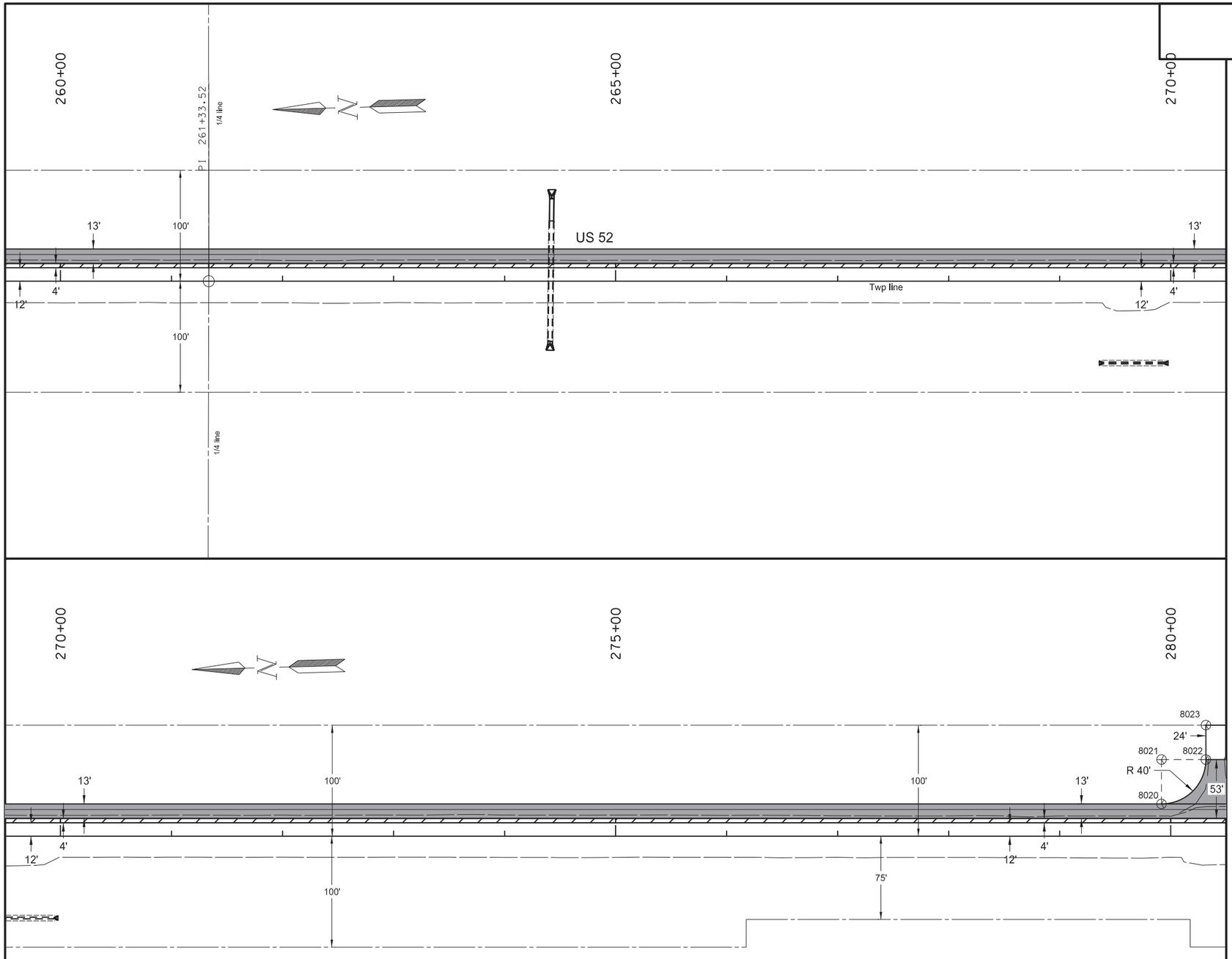

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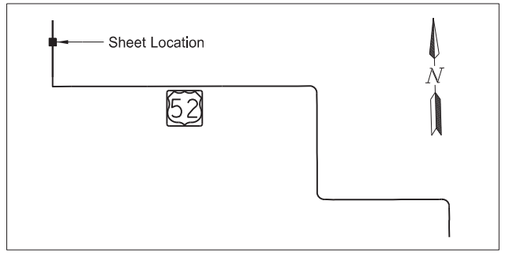
Survey Data

Passing Lane #1

Sta 240+00 to Sta 260+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 3 |



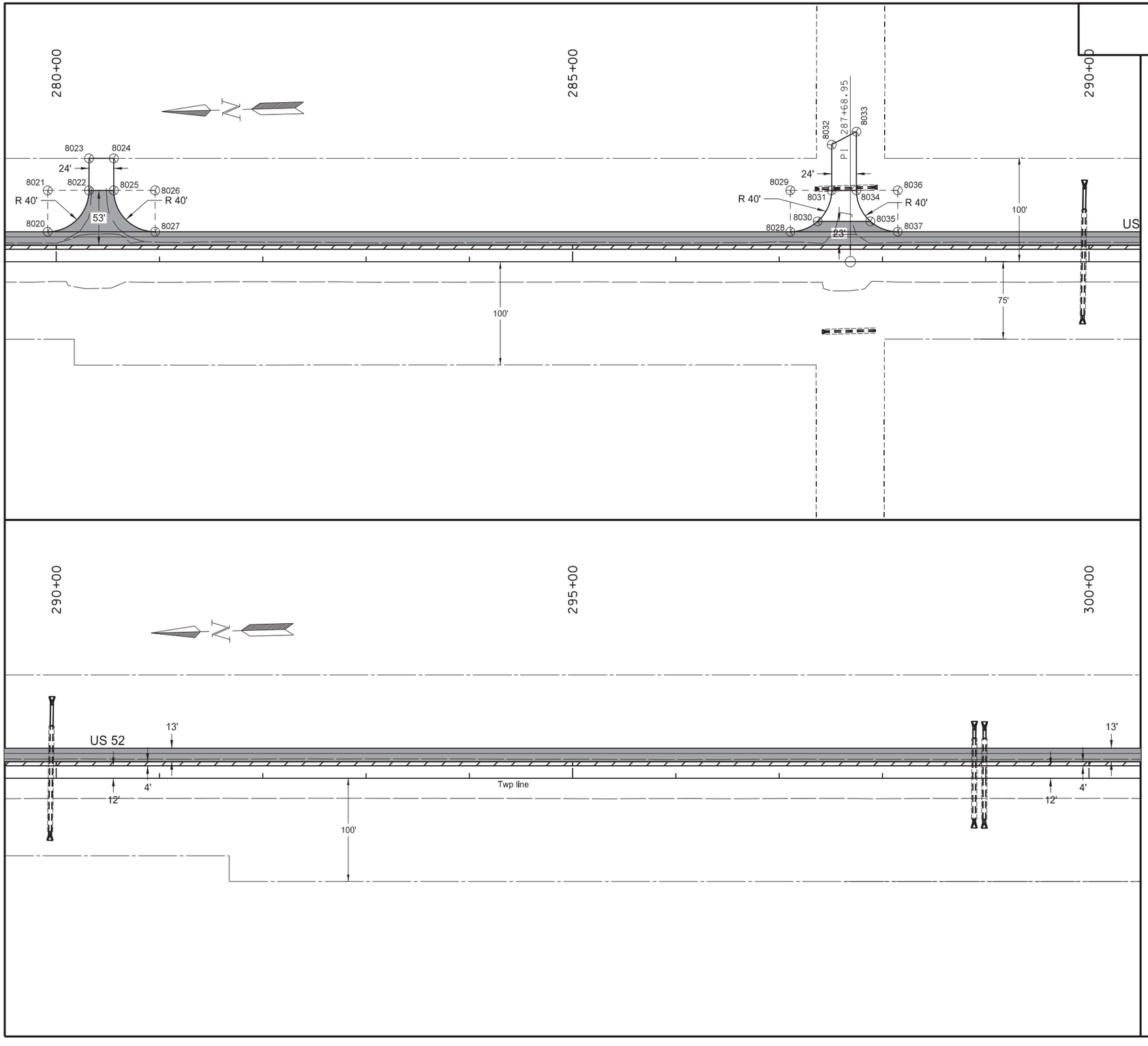

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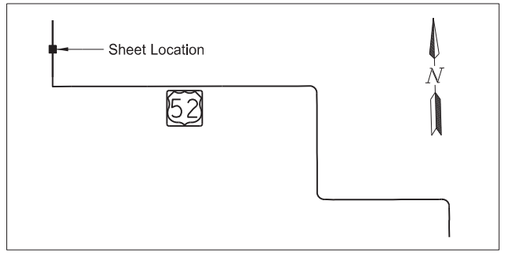
Passing Lane #1

Sta 260+00 to Sta 280+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 4 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8020 | 708942.50 | 1476804.62 | 279+91.65 | -29.00 |
| 8021 | 708941.43 | 1476844.60 | 279+91.65 | -69.00 |
| 8022 | 708901.45 | 1476843.53 | 280+31.65 | -69.00 |
| 8023 | 708900.56 | 1476874.52 | 280+31.71 | -100.01 |
| 8024 | 708876.61 | 1476873.87 | 280+55.67 | -100.00 |
| 8025 | 708877.45 | 1476842.89 | 280+55.65 | -69.00 |
| 8026 | 708837.47 | 1476841.82 | 280+95.65 | -69.00 |
| 8027 | 708838.54 | 1476801.84 | 280+95.65 | -29.00 |
| 8028 | 708223.60 | 1476785.40 | 287+10.81 | -29.01 |
| 8029 | 708222.52 | 1476825.39 | 287+10.82 | -69.01 |
| 8030 | 708196.88 | 1476794.69 | 287+37.27 | -39.01 |
| 8031 | 708182.54 | 1476824.31 | 287+50.82 | -69.00 |
| 8032 | 708181.36 | 1476868.55 | 287+50.82 | -113.26 |
| 8033 | 708157.03 | 1476880.56 | 287+74.80 | -125.91 |
| 8034 | 708158.55 | 1476823.67 | 287+74.81 | -69.00 |
| 8035 | 708145.82 | 1476793.31 | 287+88.35 | -39.00 |
| 8036 | 708118.56 | 1476822.59 | 288+14.81 | -69.00 |
| 8037 | 708119.64 | 1476782.60 | 288+14.81 | -29.00 |



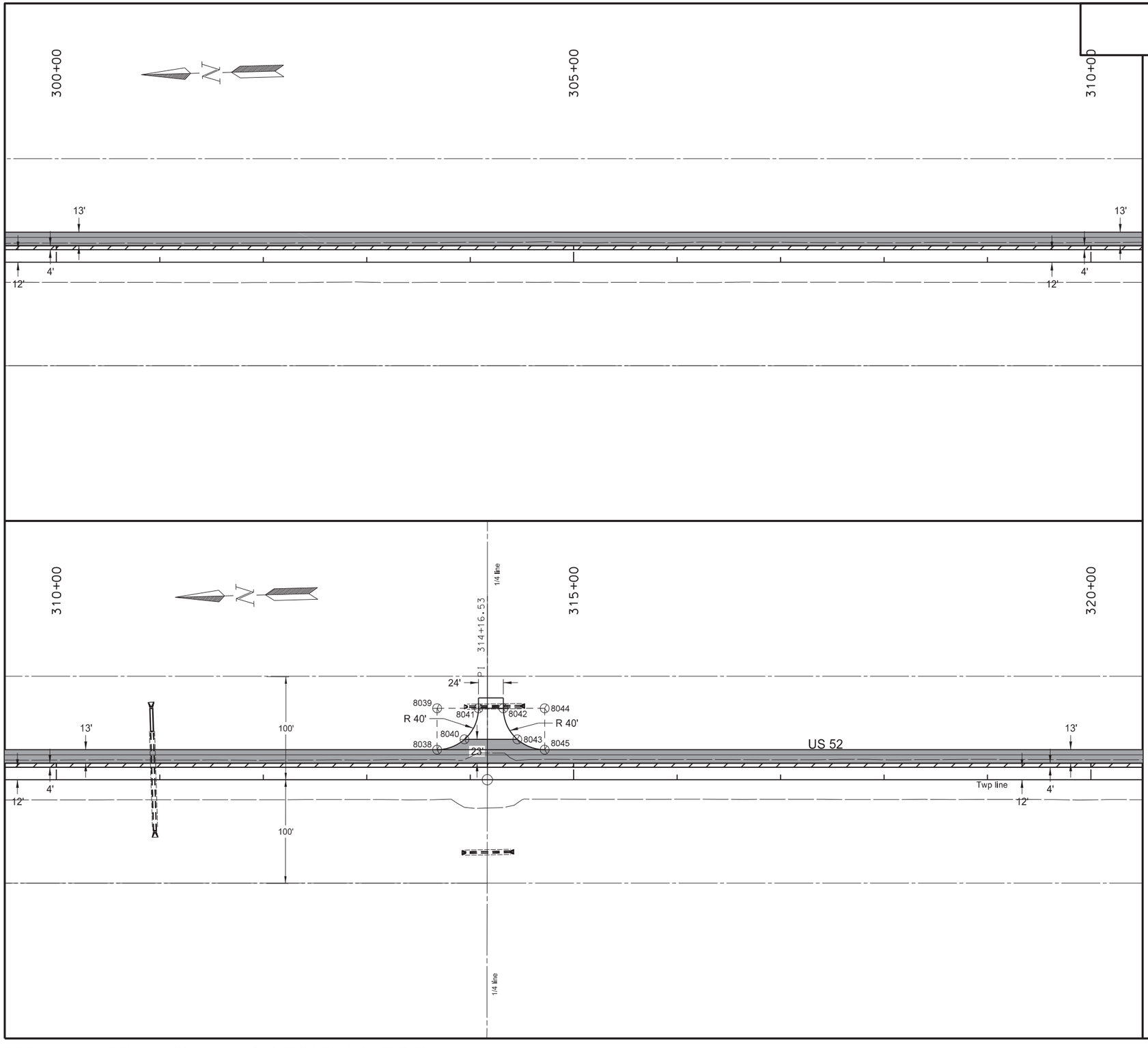

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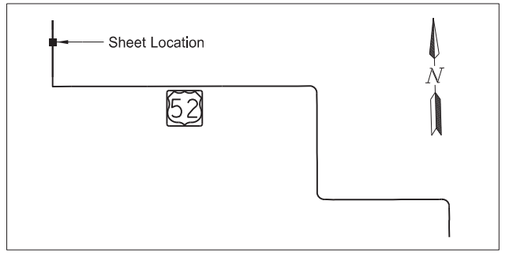
Passing Lane #1

Sta 280+00 to Sta 300+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 5 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8039 | 705566.30 | 1476753.88 | 313+67.99 | -69.00 |
| 8040 | 705540.66 | 1476723.18 | 313+94.45 | -39.00 |
| 8041 | 705526.31 | 1476752.81 | 314+07.99 | -69.00 |
| 8042 | 705502.32 | 1476752.16 | 314+31.99 | -69.00 |
| 8043 | 705489.59 | 1476721.81 | 314+45.54 | -39.00 |
| 8044 | 705462.34 | 1476751.09 | 314+71.99 | -69.00 |
| 8045 | 705463.41 | 1476711.10 | 314+71.99 | -29.00 |



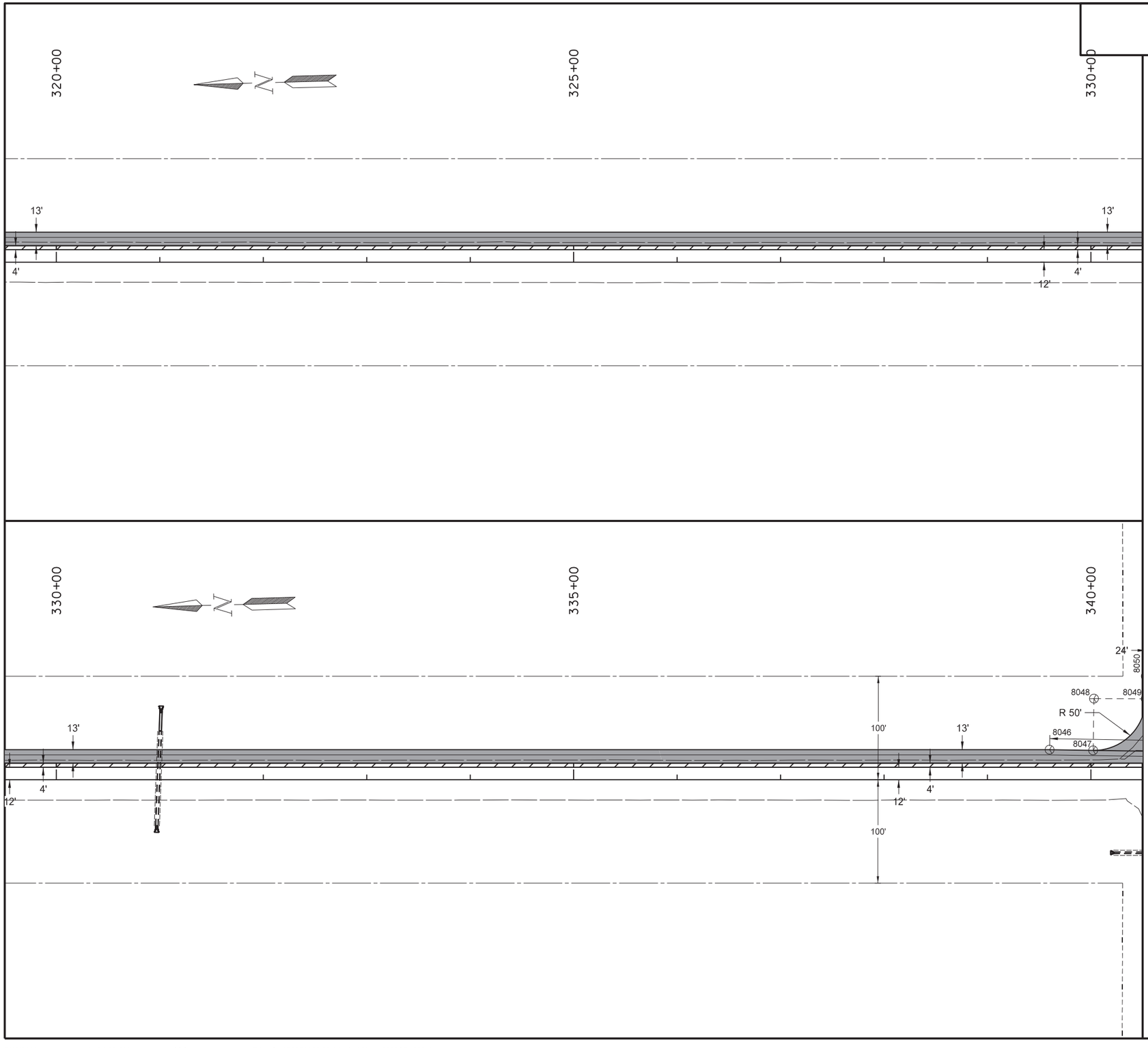

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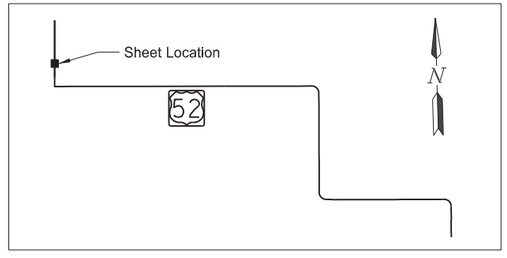
Passing Lane #1

Sta 300+00 to Sta 320+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 6 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8046 | 702976.27 | 1476644.21 | 339+60.04 | -29.00 |
| 8047 | 702934.18 | 1476642.43 | 340+02.16 | -28.35 |
| 8048 | 702932.06 | 1476692.38 | 340+02.93 | -78.35 |



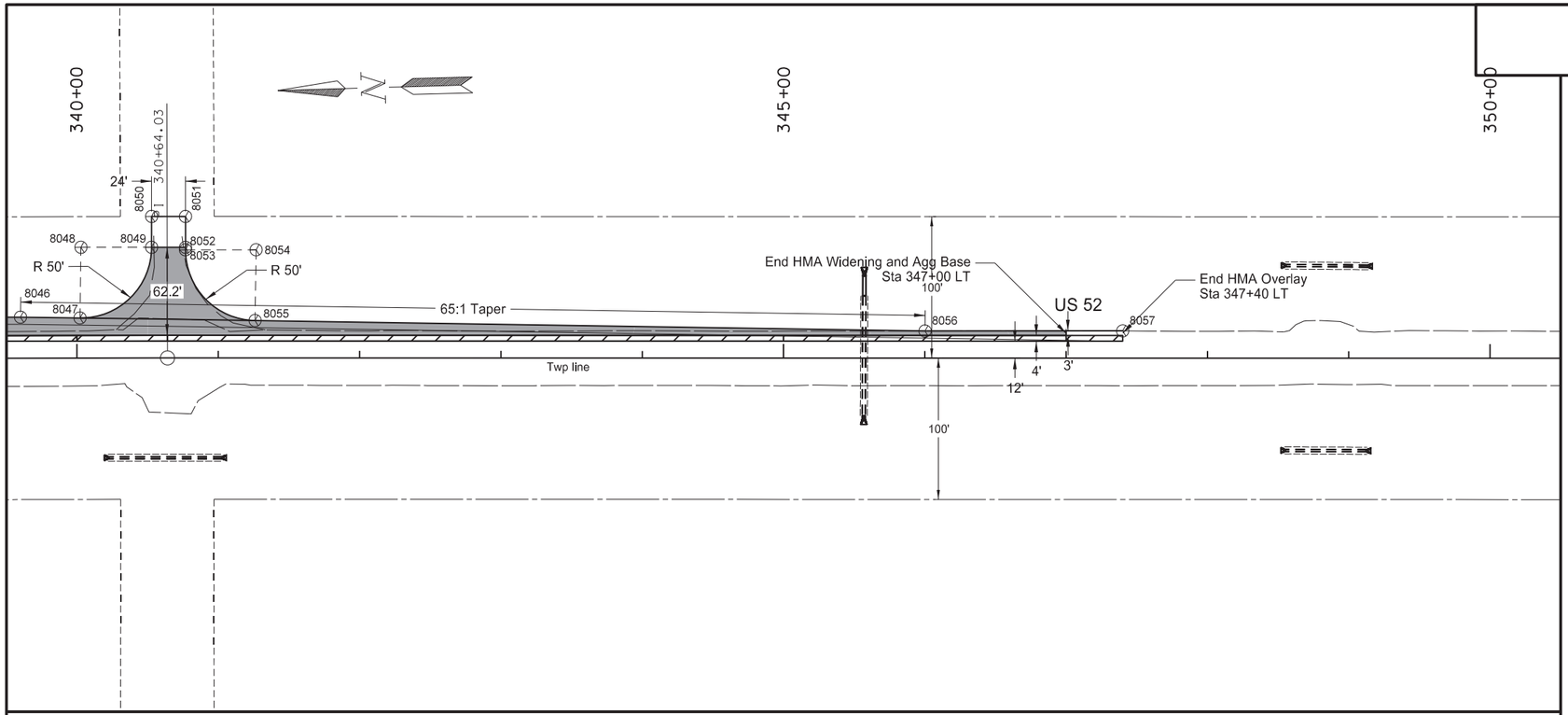

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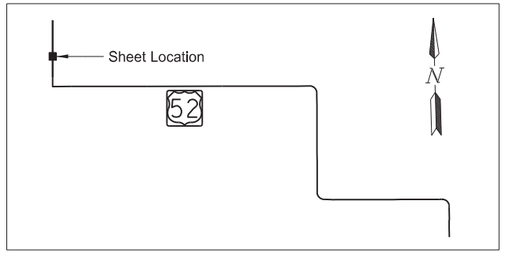
Passing Lane #1

Sta 320+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 7 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8046 | 702976.27 | 1476644.21 | 339+60.04 | -29.00 |
| 8047 | 702934.18 | 1476642.43 | 340+02.16 | -28.35 |
| 8048 | 702932.06 | 1476692.38 | 340+02.93 | -78.35 |
| 8049 | 702882.09 | 1476690.91 | 340+52.93 | -78.22 |
| 8050 | 702881.44 | 1476712.71 | 340+52.99 | -100.03 |
| 8051 | 702857.45 | 1476712.01 | 340+76.73 | -100.00 |
| 8052 | 702858.10 | 1476690.20 | 340+76.73 | -78.19 |
| 8053 | 702858.15 | 1476688.46 | 340+76.73 | -76.44 |
| 8054 | 702808.17 | 1476686.98 | 341+26.73 | -76.44 |
| 8055 | 702810.41 | 1476637.03 | 341+25.96 | -26.45 |
| 8056 | 702336.68 | 1476615.76 | 346+00.11 | -19.15 |
| 8057 | 702196.83 | 1476611.76 | 347+40.02 | -19.28 |



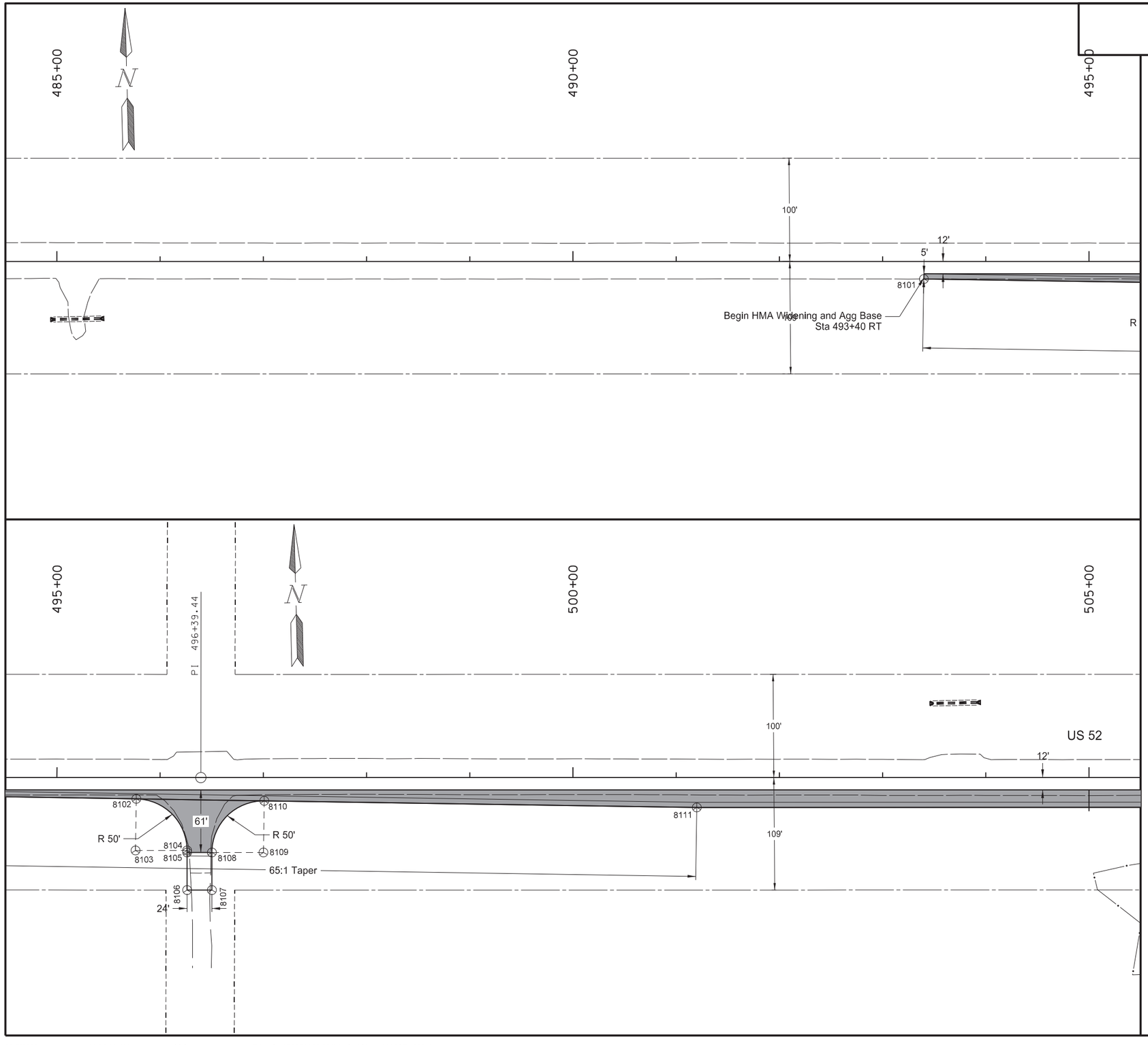

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Survey Data

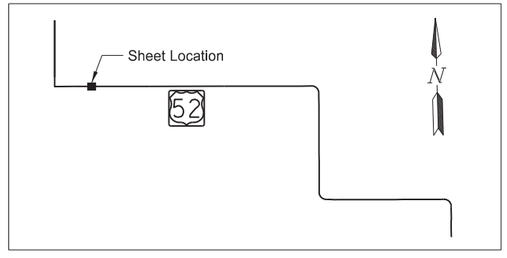
Passing Lane #1

Sta 340+00 to Sta 360+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 8 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8101 | 697346.56 | 1486639.38 | 493+40.00 | 17.02 |
| 8102 | 697336.79 | 1486876.12 | 495+76.91 | 20.65 |
| 8103 | 697286.83 | 1486874.05 | 495+76.14 | 70.64 |
| 8104 | 697285.56 | 1486924.04 | 496+26.14 | 70.62 |
| 8105 | 697283.64 | 1486923.99 | 496+26.14 | 72.53 |
| 8106 | 697247.18 | 1486923.06 | 496+26.16 | 109.01 |
| 8107 | 697246.57 | 1486947.05 | 496+50.08 | 109.00 |
| 8108 | 697283.03 | 1486947.98 | 496+50.09 | 72.53 |
| 8109 | 697281.76 | 1486997.96 | 497+00.09 | 72.55 |
| 8110 | 697331.71 | 1486999.99 | 497+00.86 | 22.55 |
| 8111 | 697314.71 | 1487418.80 | 501+19.96 | 29.00 |



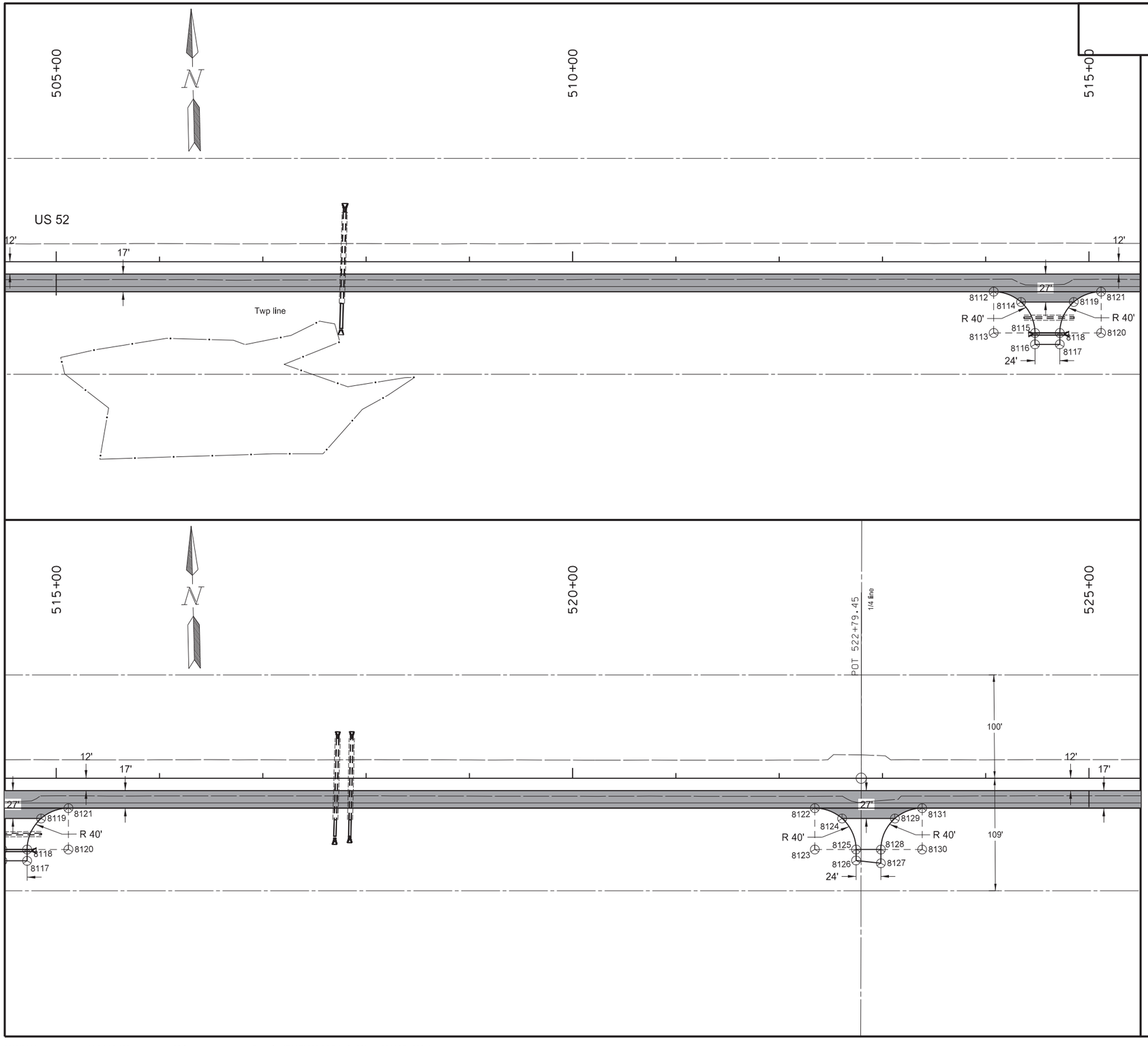

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09/01/23

Survey Data

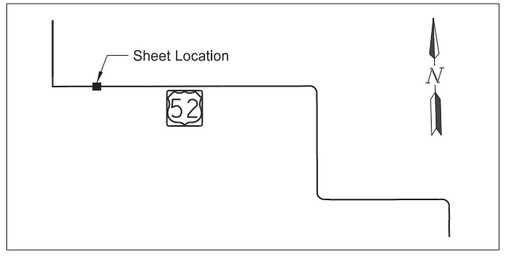
Passing Lane #2

Sta 485+00 to Sta 505+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 9 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8112 | 697282.26 | 1488706.15 | 514+07.72 | 29.00 |
| 8113 | 697242.27 | 1488705.14 | 514+07.72 | 69.00 |
| 8114 | 697271.59 | 1488732.34 | 514+34.18 | 39.00 |
| 8115 | 697241.26 | 1488745.13 | 514+47.72 | 69.00 |
| 8116 | 697230.27 | 1488744.85 | 514+47.72 | 80.00 |
| 8117 | 697229.66 | 1488768.84 | 514+71.72 | 80.00 |
| 8118 | 697240.66 | 1488769.12 | 514+71.72 | 69.00 |
| 8119 | 697270.31 | 1488783.41 | 514+85.26 | 39.00 |
| 8120 | 697239.65 | 1488809.11 | 515+11.72 | 69.00 |
| 8121 | 697279.64 | 1488810.11 | 515+11.72 | 29.00 |
| 8122 | 697261.42 | 1489532.64 | 522+34.48 | 29.00 |
| 8123 | 697221.44 | 1489531.64 | 522+34.48 | 69.00 |
| 8124 | 697250.76 | 1489558.84 | 522+60.94 | 39.00 |
| 8125 | 697220.43 | 1489571.62 | 522+74.48 | 69.00 |
| 8126 | 697209.84 | 1489571.36 | 522+74.48 | 79.60 |
| 8127 | 697206.50 | 1489595.28 | 522+98.48 | 82.33 |
| 8128 | 697219.82 | 1489595.62 | 522+98.48 | 69.00 |
| 8129 | 697249.47 | 1489609.91 | 523+12.02 | 39.00 |
| 8130 | 697218.82 | 1489635.60 | 523+38.48 | 69.00 |
| 8131 | 697258.80 | 1489636.61 | 523+38.48 | 29.00 |



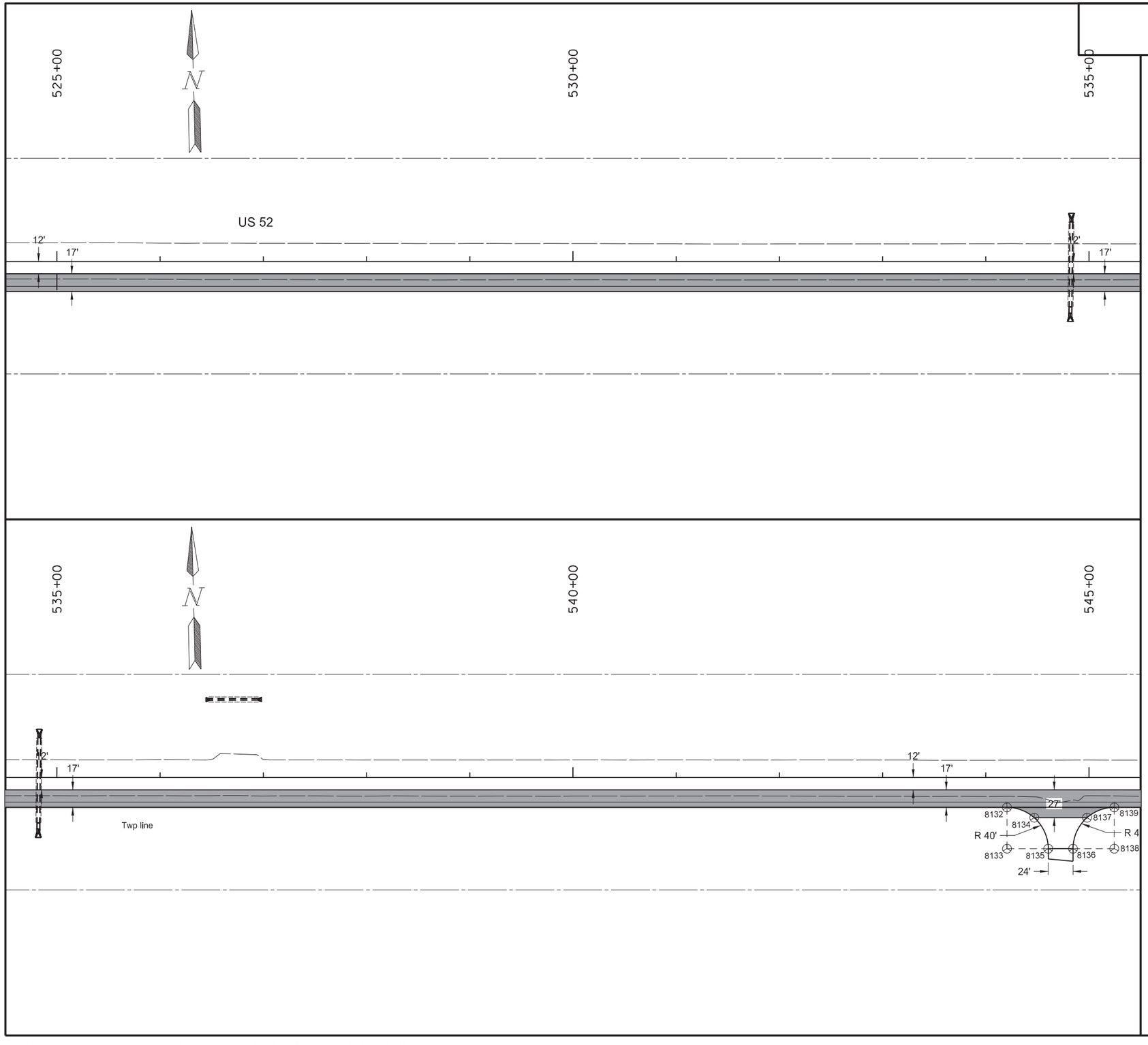

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Survey Data

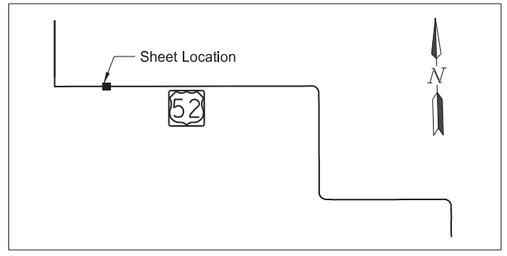
Passing Lane #2

Sta 505+00 to Sta 525+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 10 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8132 | 697206.34 | 1491717.95 | 544+20.48 | 29.00 |
| 8133 | 697166.35 | 1491716.95 | 544+20.48 | 69.00 |
| 8134 | 697195.68 | 1491744.15 | 544+46.94 | 39.00 |
| 8135 | 697165.34 | 1491756.93 | 544+60.48 | 69.00 |
| 8136 | 697164.74 | 1491780.92 | 544+84.48 | 69.00 |
| 8137 | 697194.39 | 1491795.22 | 544+98.03 | 39.00 |
| 8138 | 697163.73 | 1491820.91 | 545+24.48 | 69.00 |
| 8139 | 697203.72 | 1491821.92 | 545+24.48 | 29.00 |



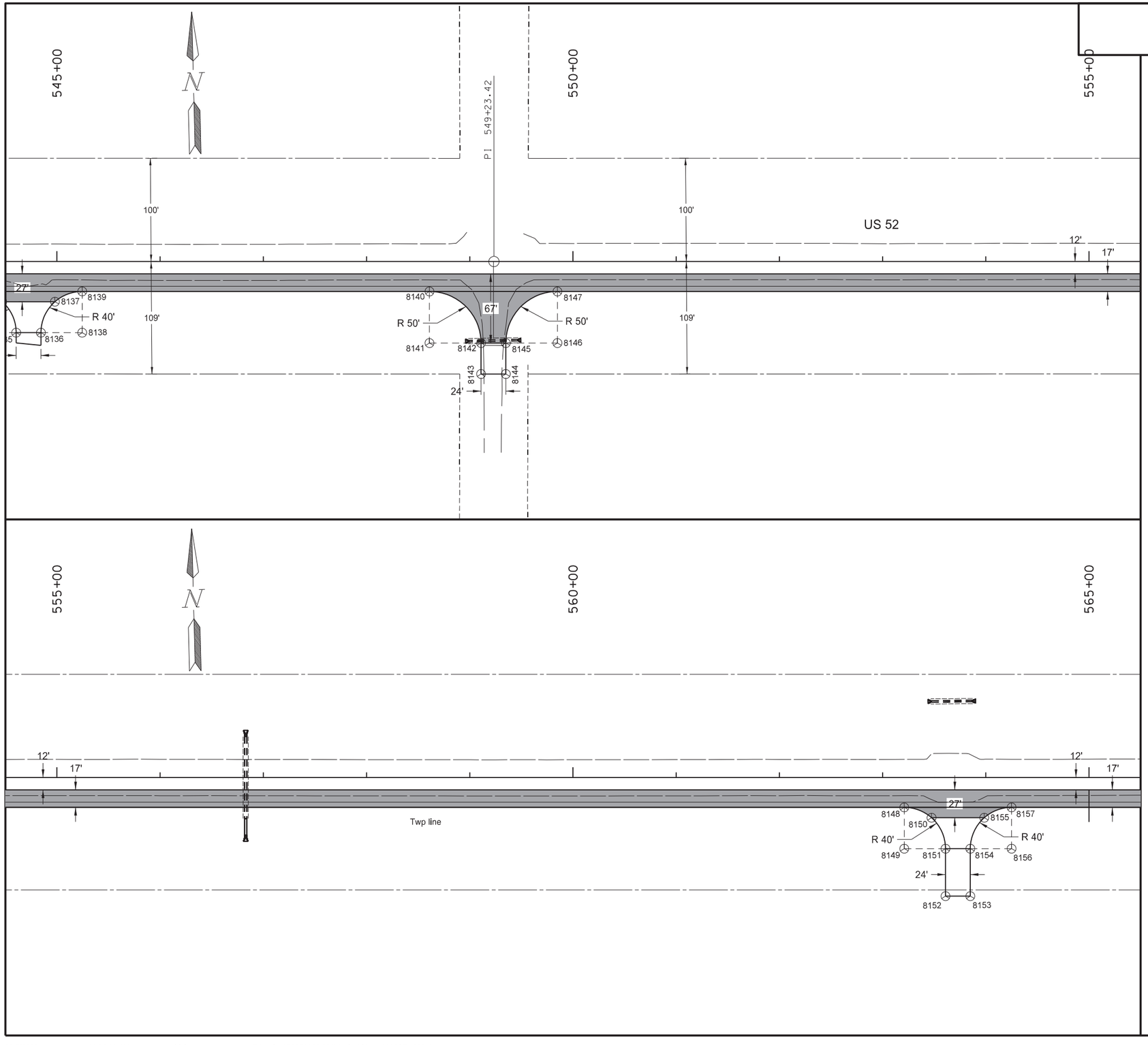

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NORTH DAKOTA
09/01/23

Survey Data

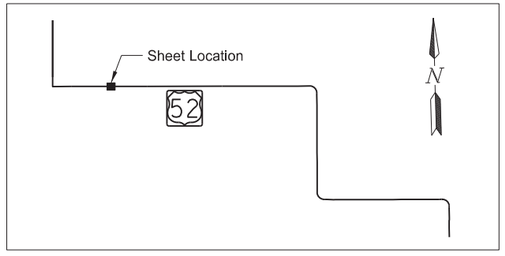
Passing Lane #2

Sta 525+00 to Sta 545+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 11 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8136 | 697164.74 | 1491780.92 | 544+84.48 | 69.00 |
| 8137 | 697194.39 | 1491795.22 | 544+98.03 | 39.00 |
| 8138 | 697163.73 | 1491820.91 | 545+24.48 | 69.00 |
| 8139 | 697203.72 | 1491821.92 | 545+24.48 | 29.00 |
| 8140 | 697195.24 | 1492158.26 | 548+60.93 | 29.00 |
| 8141 | 697145.26 | 1492157.00 | 548+60.93 | 79.00 |
| 8142 | 697144.00 | 1492206.98 | 549+10.93 | 79.00 |
| 8143 | 697114.00 | 1492206.23 | 549+10.93 | 109.00 |
| 8144 | 697113.40 | 1492230.22 | 549+34.90 | 109.00 |
| 8145 | 697143.41 | 1492230.98 | 549+34.91 | 78.99 |
| 8146 | 697142.15 | 1492280.96 | 549+84.91 | 79.00 |
| 8147 | 697192.13 | 1492282.21 | 549+84.91 | 29.00 |
| 8148 | 697158.82 | 1493617.84 | 563+20.96 | 29.00 |
| 8149 | 697118.83 | 1493616.84 | 563+20.96 | 69.00 |
| 8150 | 697148.16 | 1493644.04 | 563+47.42 | 39.00 |
| 8151 | 697117.84 | 1493656.83 | 563+60.96 | 69.00 |
| 8152 | 697071.85 | 1493655.68 | 563+60.96 | 115.00 |
| 8153 | 697071.25 | 1493679.68 | 563+84.96 | 115.00 |
| 8154 | 697117.24 | 1493680.82 | 563+84.96 | 69.00 |
| 8155 | 697146.89 | 1493695.11 | 563+98.50 | 39.00 |
| 8156 | 697116.24 | 1493720.81 | 564+24.96 | 69.00 |
| 8157 | 697156.23 | 1493721.81 | 564+24.96 | 29.00 |



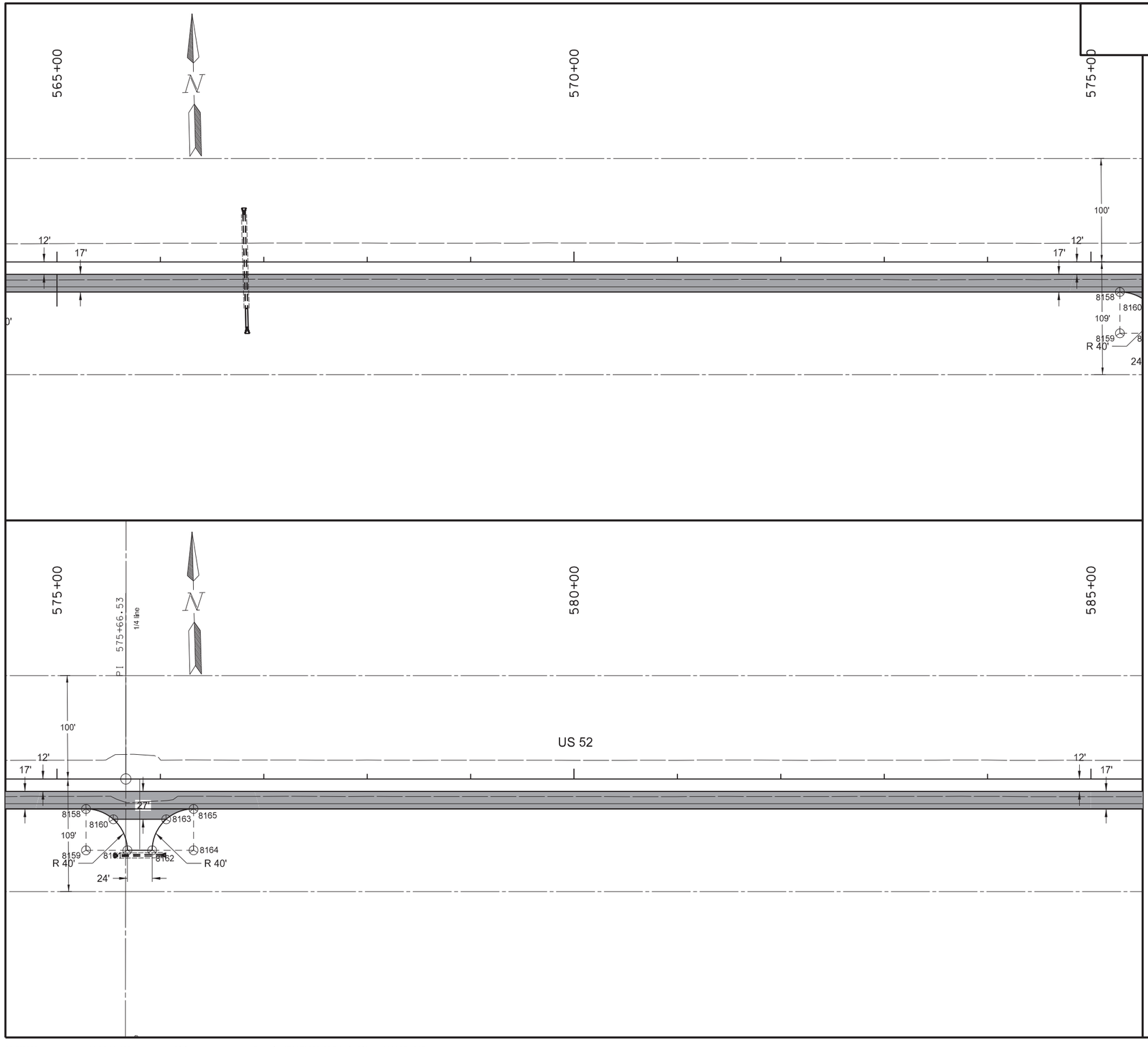

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NORTH DAKOTA
09/01/23

Survey Data

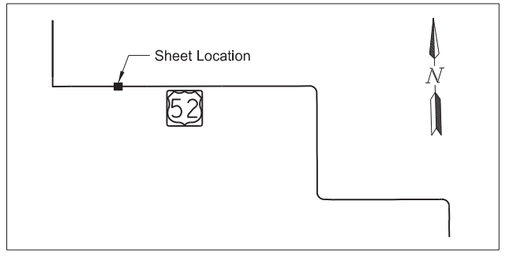
Passing Lane #2

Sta 545+00 to Sta 565+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 12 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8158 | 697128.73 | 1494824.51 | 575+28.00 | 29.00 |
| 8159 | 697088.74 | 1494823.51 | 575+28.00 | 69.00 |
| 8160 | 697118.07 | 1494850.71 | 575+54.46 | 39.00 |
| 8161 | 697087.74 | 1494863.50 | 575+68.00 | 69.00 |
| 8162 | 697087.14 | 1494887.49 | 575+92.00 | 69.00 |
| 8163 | 697116.80 | 1494901.78 | 576+05.54 | 39.00 |
| 8164 | 697086.15 | 1494927.48 | 576+32.00 | 69.00 |
| 8165 | 697126.13 | 1494928.48 | 576+32.00 | 29.00 |



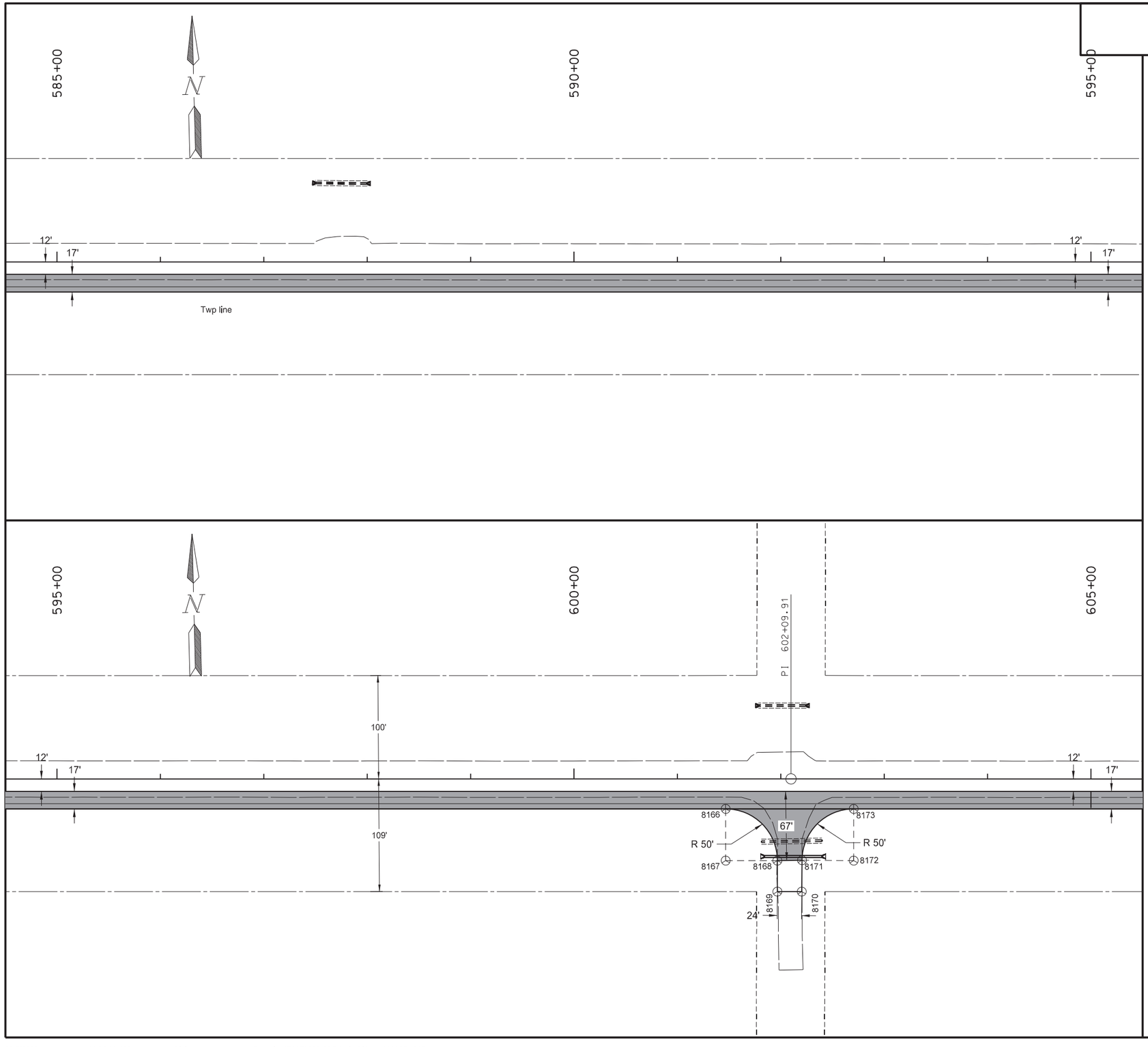

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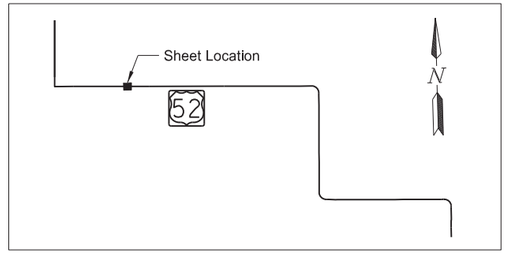
Passing Lane #2

Sta 565+00 to Sta 585+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 13 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8166 | 697063.48 | 1497442.38 | 601+46.68 | 29.00 |
| 8167 | 697013.50 | 1497441.13 | 601+46.68 | 79.00 |
| 8168 | 697012.24 | 1497491.11 | 601+96.68 | 79.01 |
| 8169 | 696982.27 | 1497490.36 | 601+96.67 | 109.00 |
| 8170 | 696981.67 | 1497513.95 | 602+20.30 | 109.00 |
| 8171 | 697012.03 | 1497514.94 | 602+20.52 | 78.63 |
| 8172 | 697010.40 | 1497564.91 | 602+70.52 | 79.00 |
| 8173 | 697060.38 | 1497566.17 | 602+70.52 | 29.00 |



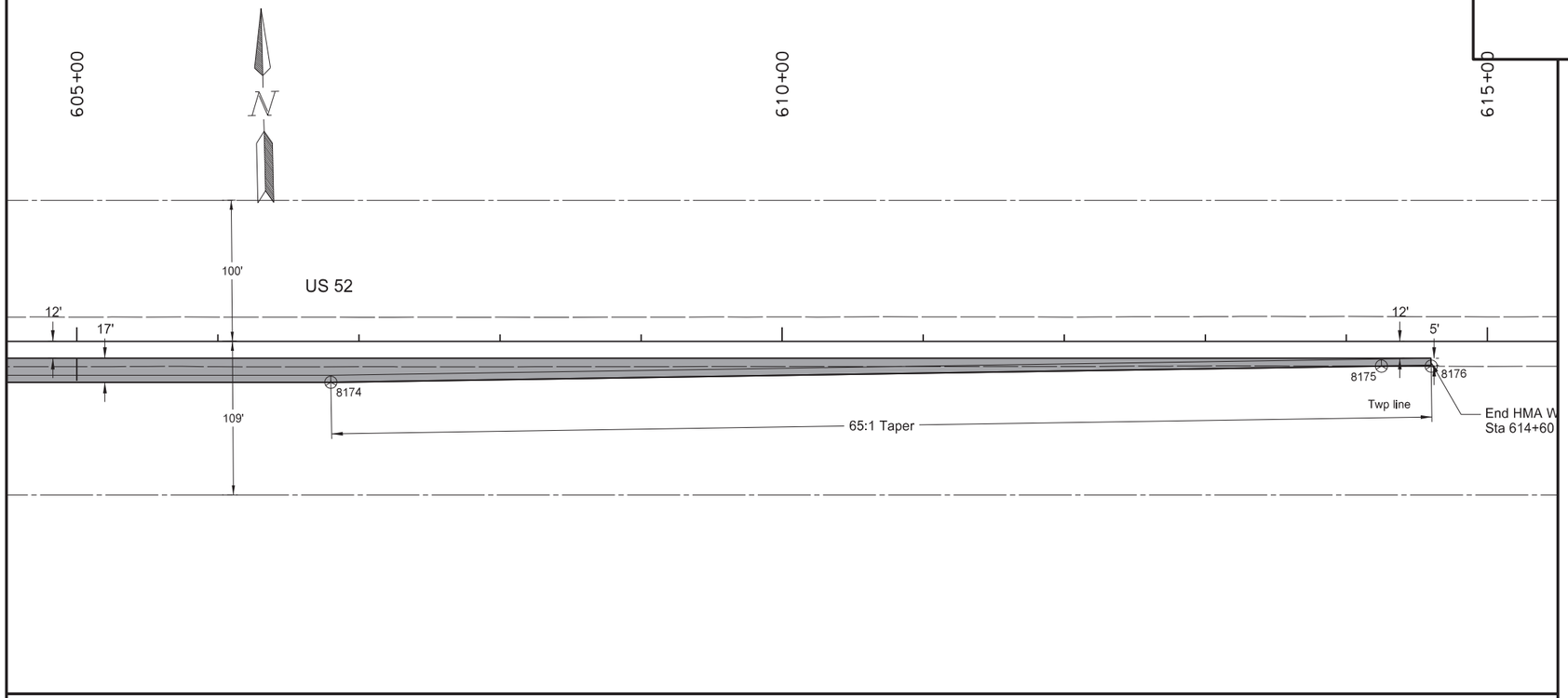

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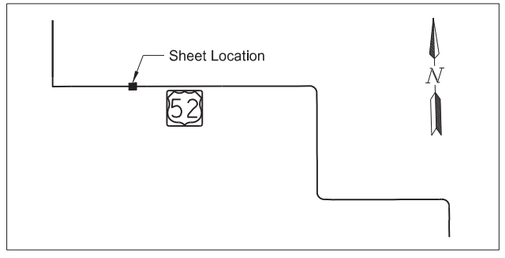
Passing Lane #2

Sta 585+00 to Sta 605+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 14 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8174 | 697050.07 | 1497975.56 | 606+80.04 | 29.00 |
| 8175 | 697042.76 | 1498720.48 | 614+24.91 | 17.54 |
| 8176 | 697041.84 | 1498755.72 | 614+60.16 | 17.58 |



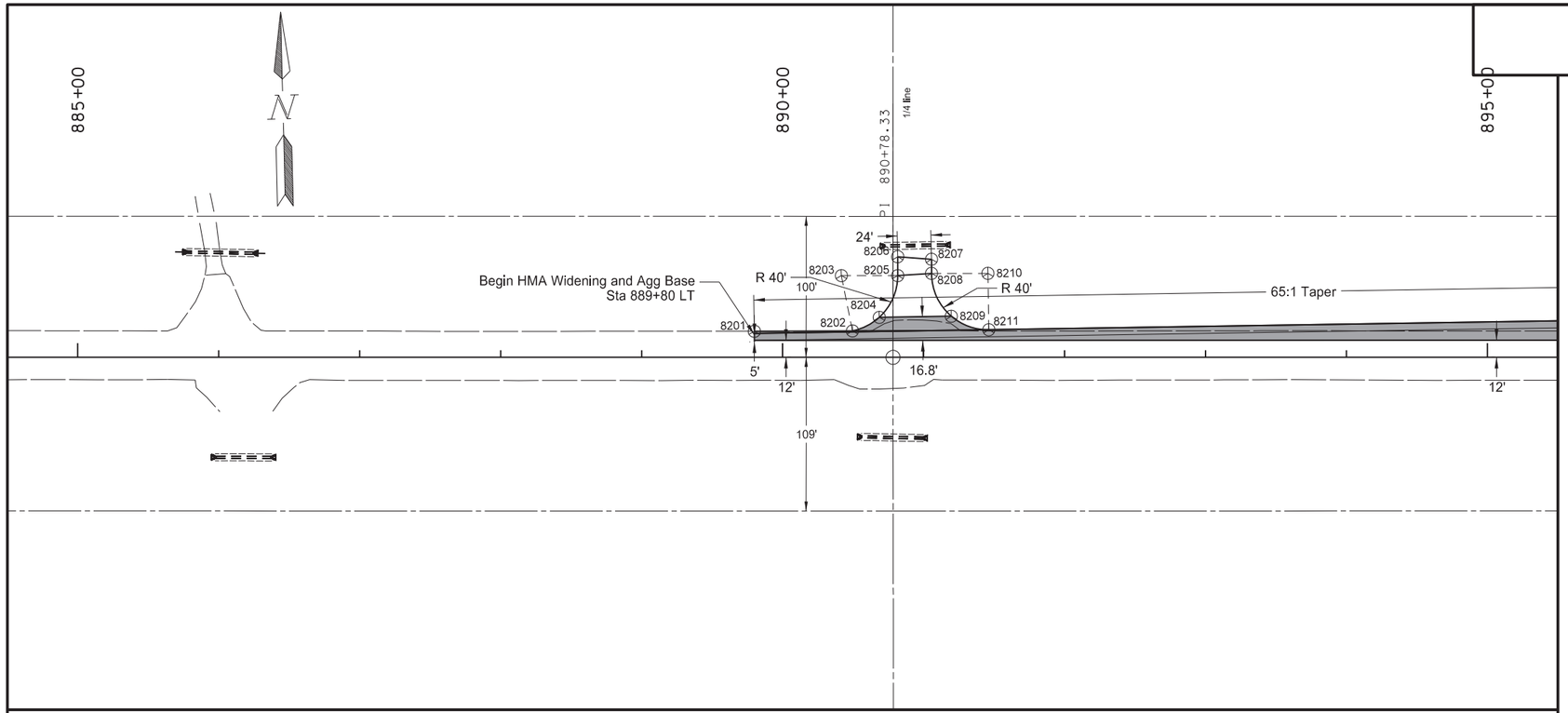

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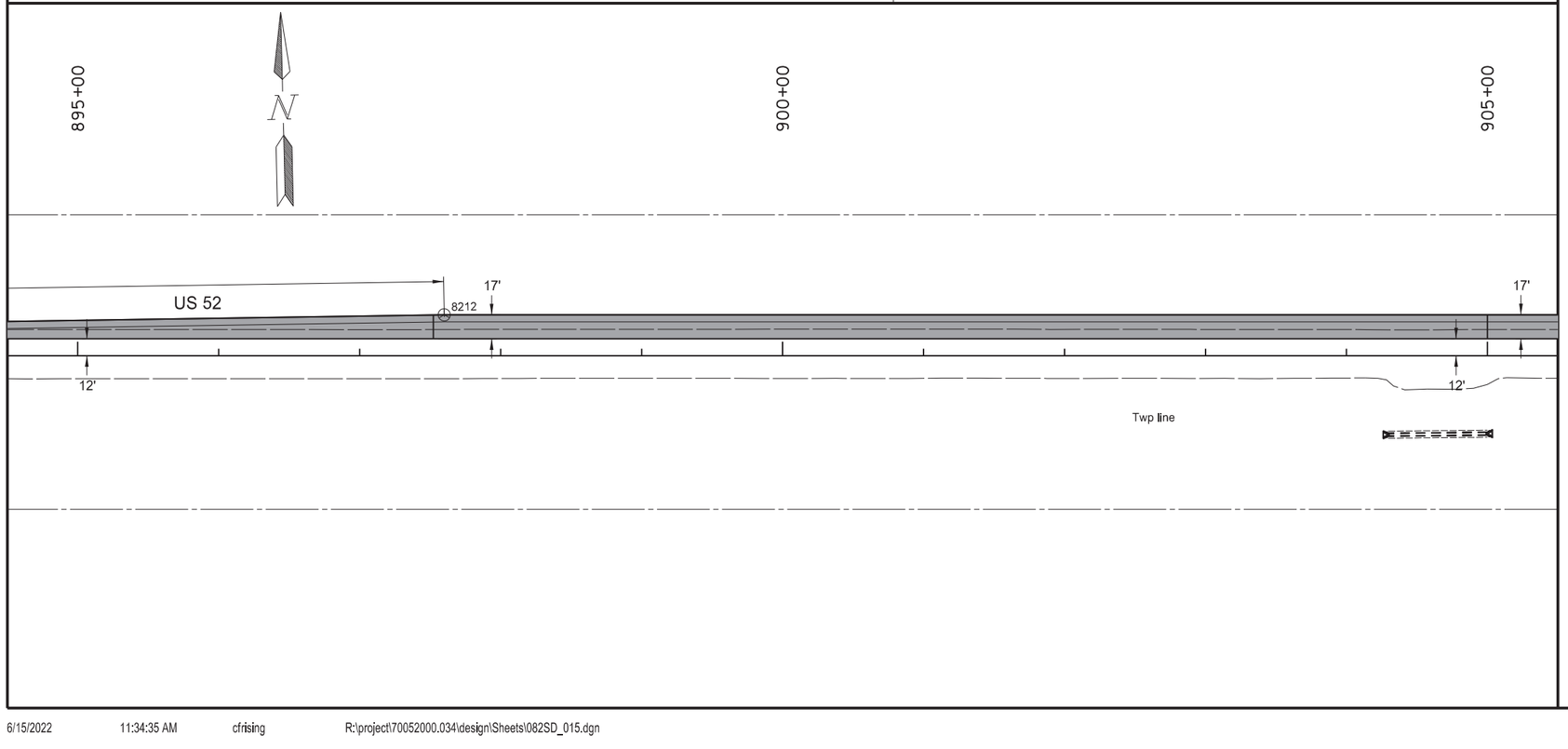
Survey Data

Passing Lane #2

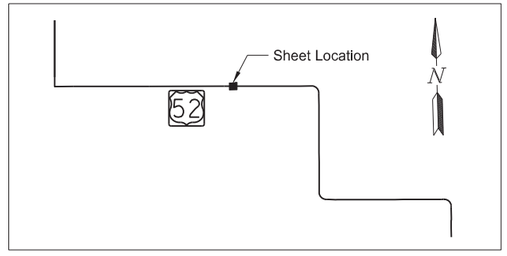
Sta 605+00 to Sta 625+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 15 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8201 | 696395.35 | 1526289.83 | 889+79.93 | -18.46 |
| 8202 | 696393.89 | 1526359.42 | 890+49.53 | -18.74 |
| 8203 | 696433.29 | 1526352.50 | 890+41.64 | -57.95 |
| 8204 | 696403.04 | 1526378.67 | 890+68.55 | -28.36 |
| 8205 | 696432.31 | 1526392.49 | 890+81.65 | -57.96 |
| 8206 | 696445.72 | 1526392.82 | 890+81.66 | -71.38 |
| 8207 | 696443.31 | 1526416.77 | 891+05.66 | -69.55 |
| 8208 | 696433.31 | 1526416.52 | 891+05.65 | -59.55 |
| 8209 | 696402.57 | 1526429.78 | 891+19.66 | -29.15 |
| 8210 | 696432.33 | 1526456.51 | 891+45.65 | -59.55 |
| 8211 | 696392.33 | 1526456.14 | 891+46.27 | -19.56 |
| 8212 | 696386.69 | 1527069.84 | 897+59.92 | -29.00 |



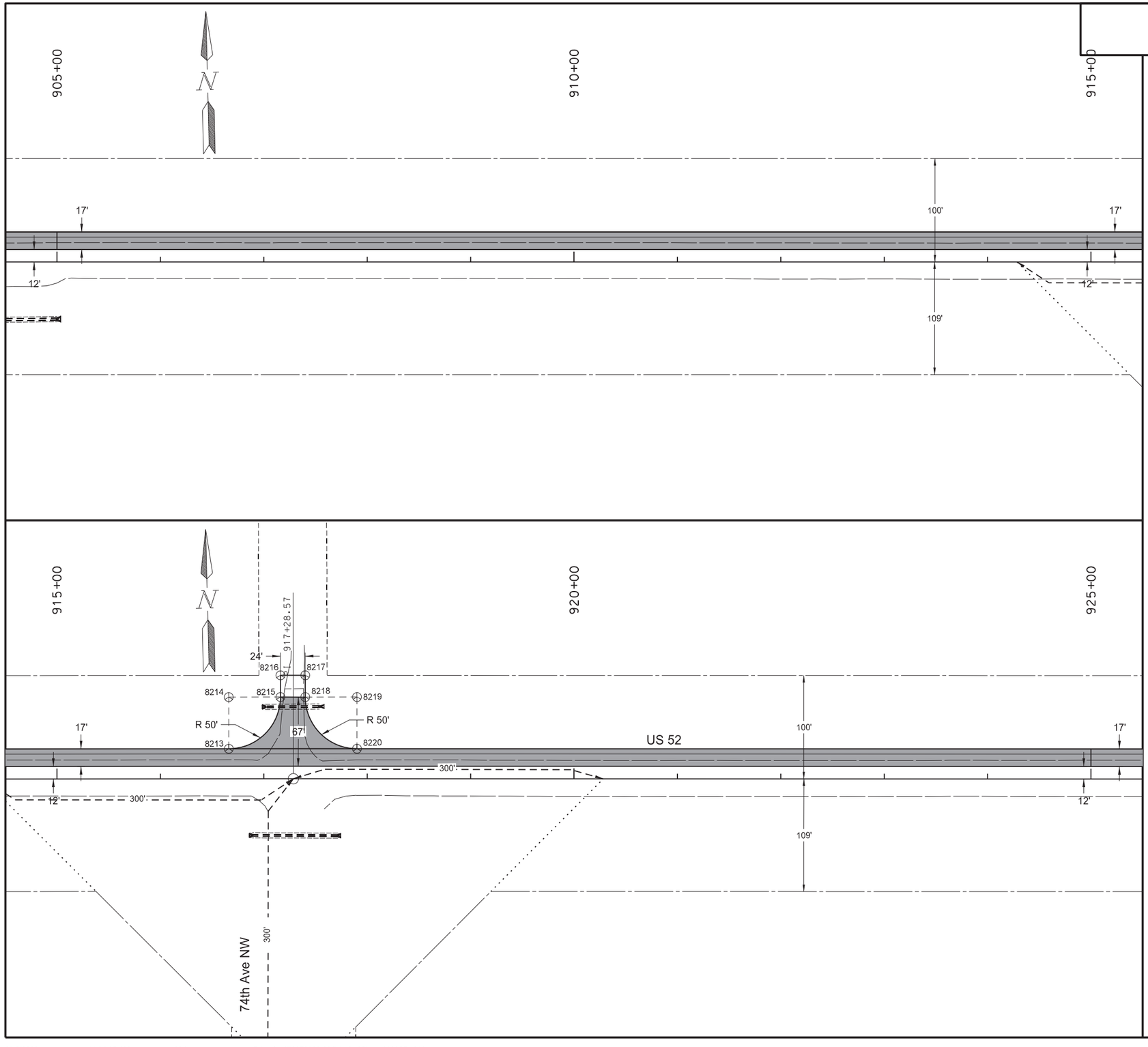

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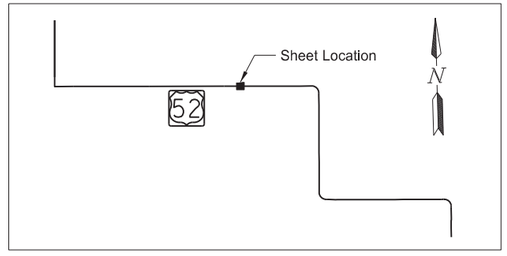
Passing Lane #3

Sta 885+00 to Sta 905+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 16 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8213 | 696339.86 | 1528975.45 | 916+66.11 | -29.01 |
| 8214 | 696389.85 | 1528976.71 | 916+66.14 | -79.01 |
| 8215 | 696388.62 | 1529026.69 | 917+16.14 | -79.01 |
| 8216 | 696409.61 | 1529027.21 | 917+16.14 | -100.00 |
| 8217 | 696409.02 | 1529051.20 | 917+40.01 | -100.01 |
| 8218 | 696387.95 | 1529050.68 | 917+40.04 | -78.95 |
| 8219 | 696386.73 | 1529100.67 | 917+90.04 | -79.01 |
| 8220 | 696336.74 | 1529099.41 | 917+90.07 | -29.01 |



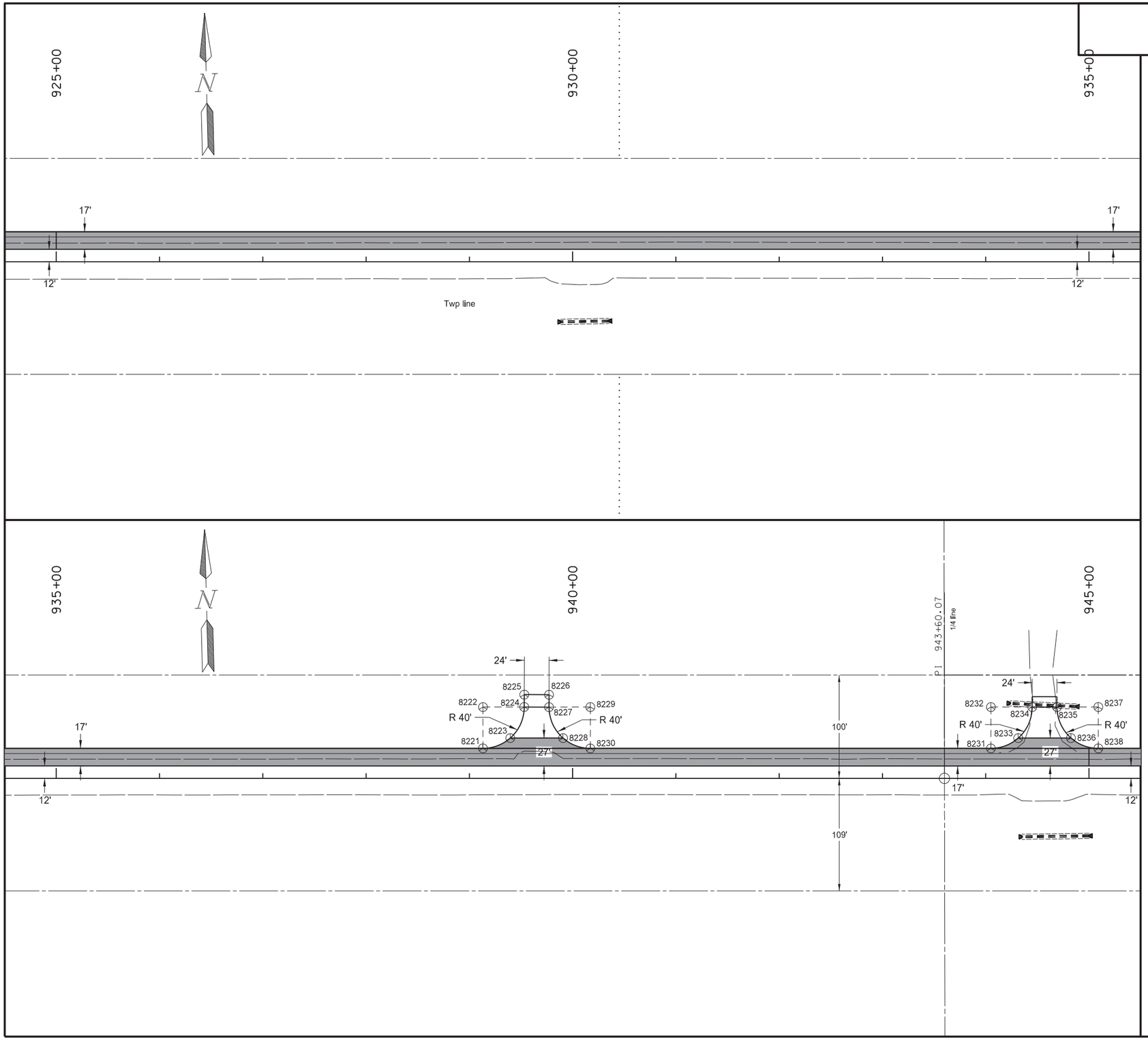

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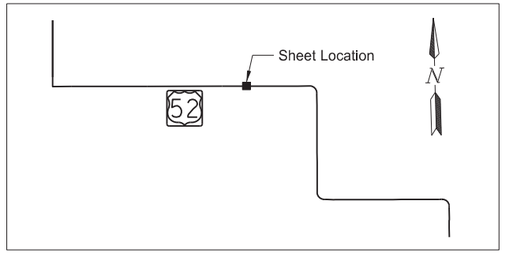
Passing Lane #3

Sta 905+00 to Sta 925+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 17 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8221 | 696281.98 | 1531221.76 | 939+13.13 | -29.00 |
| 8222 | 696321.97 | 1531222.79 | 939+13.13 | -69.00 |
| 8223 | 696291.30 | 1531248.47 | 939+39.59 | -39.00 |
| 8224 | 696320.99 | 1531262.78 | 939+53.13 | -69.05 |
| 8225 | 696332.98 | 1531263.09 | 939+53.13 | -81.05 |
| 8226 | 696332.27 | 1531287.08 | 939+77.13 | -80.95 |
| 8227 | 696320.27 | 1531286.77 | 939+77.13 | -68.95 |
| 8228 | 696289.98 | 1531299.54 | 939+90.67 | -39.00 |
| 8229 | 696319.29 | 1531326.76 | 940+17.13 | -69.00 |
| 8230 | 696279.30 | 1531325.73 | 940+17.13 | -29.00 |
| 8231 | 696269.31 | 1531713.49 | 944+05.03 | -29.00 |
| 8232 | 696309.30 | 1531714.52 | 944+05.03 | -69.00 |
| 8233 | 696278.63 | 1531740.20 | 944+31.49 | -39.00 |
| 8234 | 696308.27 | 1531754.50 | 944+45.03 | -69.00 |
| 8235 | 696307.66 | 1531778.50 | 944+69.03 | -69.00 |
| 8236 | 696277.33 | 1531791.27 | 944+82.57 | -39.00 |
| 8237 | 696306.64 | 1531818.48 | 945+09.03 | -69.00 |
| 8238 | 696266.65 | 1531817.46 | 945+09.03 | -29.00 |




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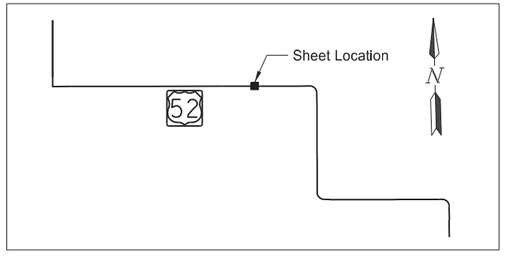
Passing Lane #3

Sta 925+00 to Sta 945+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 18 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8235 | 696307.66 | 1531778.50 | 944+69.03 | -69.00 |
| 8236 | 696277.33 | 1531791.27 | 944+82.57 | -39.00 |
| 8237 | 696306.64 | 1531818.48 | 945+09.03 | -69.00 |
| 8238 | 696266.65 | 1531817.46 | 945+09.03 | -29.00 |



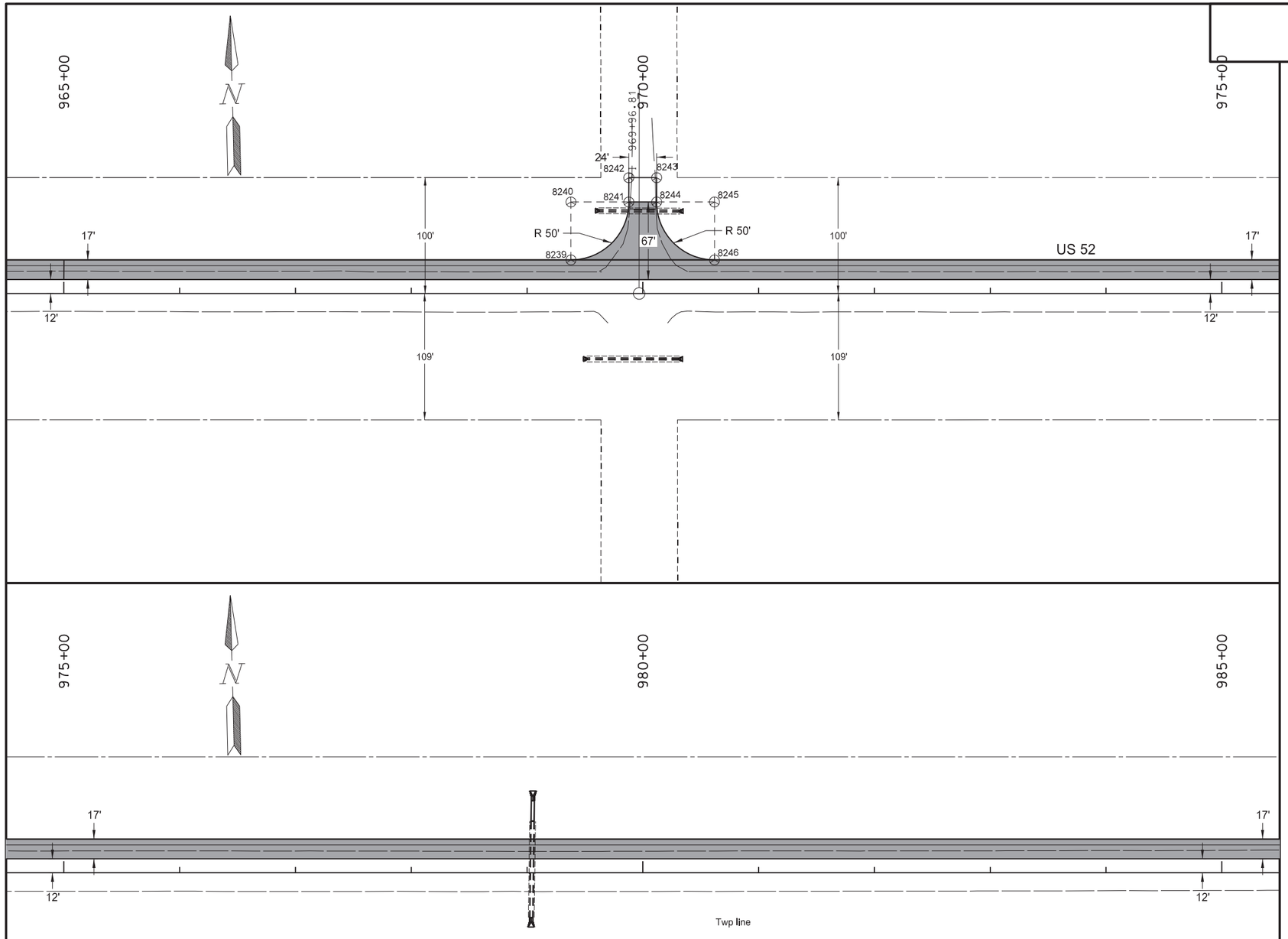

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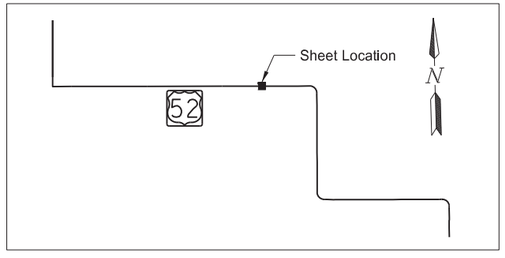
Passing Lane #3

Sta Sta 945+00 to Sta 965+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 19 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8239 | 696204.59 | 1534245.50 | 969+37.86 | -29.00 |
| 8240 | 696254.57 | 1534246.78 | 969+37.86 | -79.00 |
| 8241 | 696253.30 | 1534296.76 | 969+87.86 | -79.00 |
| 8242 | 696274.29 | 1534297.30 | 969+87.86 | -100.00 |
| 8243 | 696273.68 | 1534321.29 | 970+11.88 | -100.00 |
| 8244 | 696252.69 | 1534320.75 | 970+11.88 | -79.00 |
| 8245 | 696251.42 | 1534370.74 | 970+61.88 | -79.00 |
| 8246 | 696201.43 | 1534369.47 | 970+61.88 | -29.00 |




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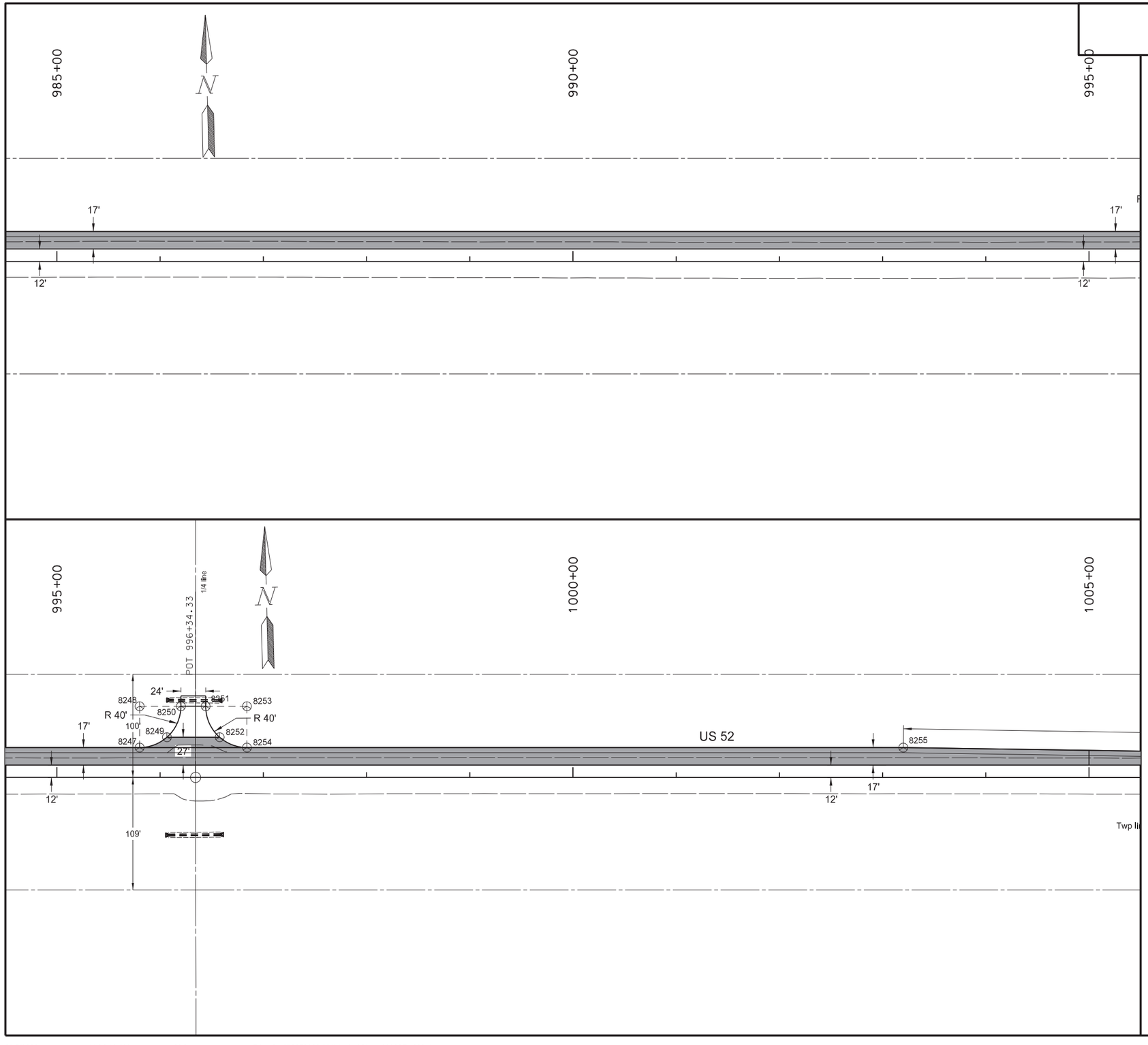
Survey Data

Passing Lane #3

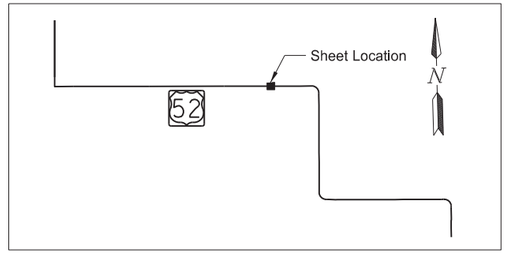
Sta 965+00 to Sta 985+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 20 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8247 | 696137.51 | 1536886.87 | 995+80.09 | -29.00 |
| 8248 | 696177.50 | 1536887.88 | 995+80.09 | -69.00 |
| 8249 | 696146.83 | 1536913.57 | 996+06.54 | -39.00 |
| 8250 | 696176.48 | 1536927.87 | 996+20.09 | -69.00 |
| 8251 | 696175.88 | 1536951.86 | 996+44.09 | -69.00 |
| 8252 | 696145.54 | 1536964.64 | 996+57.63 | -39.00 |
| 8253 | 696174.86 | 1536991.85 | 996+84.09 | -69.00 |
| 8254 | 696134.87 | 1536990.83 | 996+84.09 | -29.00 |
| 8255 | 696118.74 | 1537626.58 | 1003+20.04 | -29.00 |



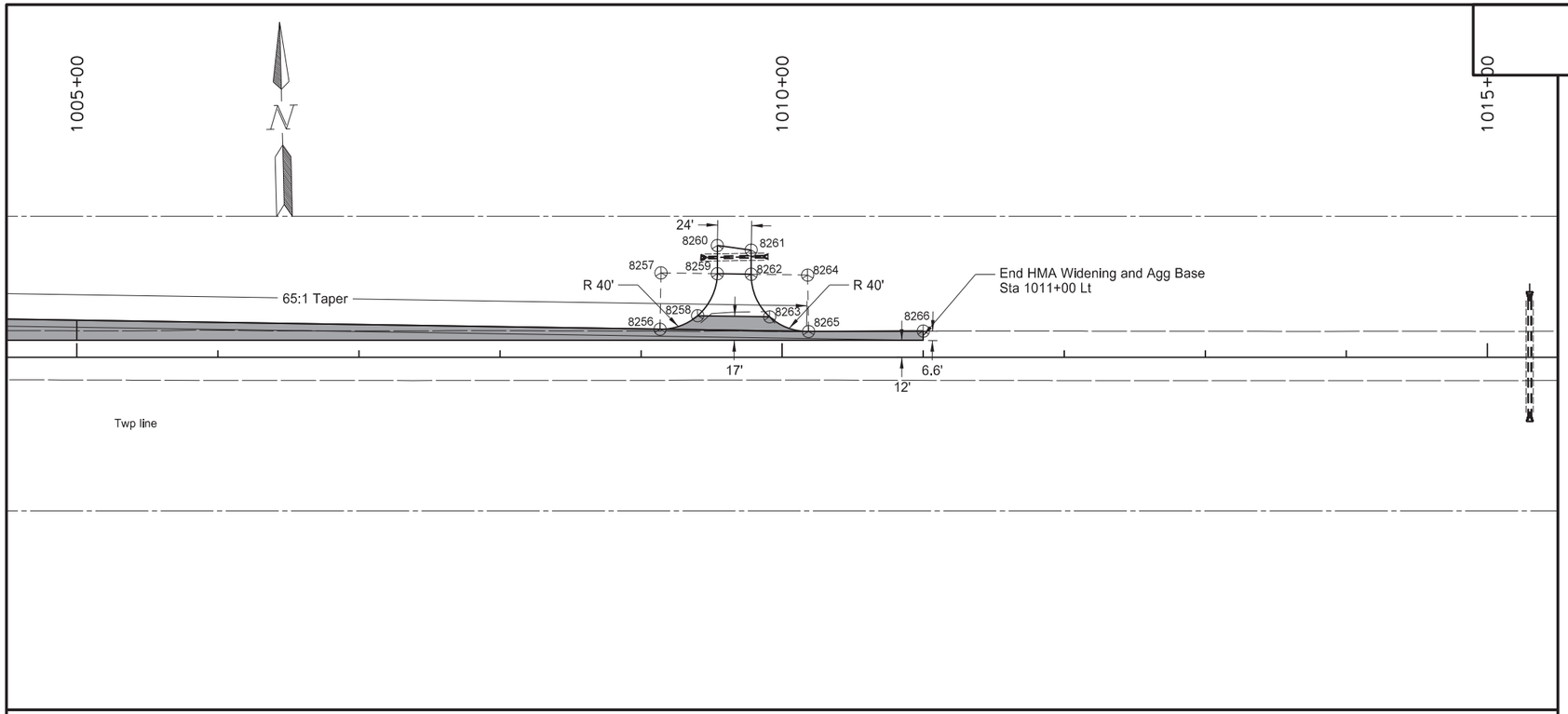

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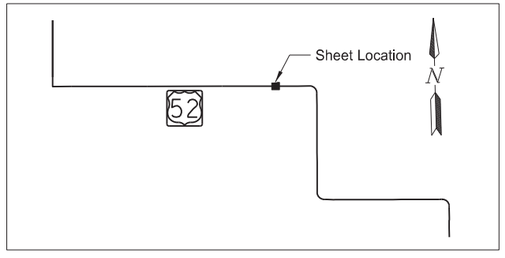
Passing Lane #3

Sta 985+00 to Sta 1005+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 21 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8256 | 696094.57 | 1538219.57 | 1009+13.45 | -19.87 |
| 8257 | 696134.53 | 1538221.20 | 1009+14.06 | -59.87 |
| 8258 | 696103.48 | 1538246.41 | 1009+40.06 | -29.46 |
| 8259 | 696132.90 | 1538261.16 | 1009+54.06 | -59.25 |
| 8260 | 696152.90 | 1538261.67 | 1009+54.06 | -79.25 |
| 8261 | 696149.05 | 1538285.56 | 1009+78.04 | -76.01 |
| 8262 | 696131.93 | 1538285.13 | 1009+78.04 | -58.88 |
| 8263 | 696101.40 | 1538297.44 | 1009+91.12 | -28.68 |
| 8264 | 696130.30 | 1538325.09 | 1010+18.03 | -58.27 |
| 8265 | 696090.28 | 1538324.74 | 1010+18.69 | -18.25 |
| 8266 | 696088.55 | 1538406.08 | 1011+00.05 | -18.58 |



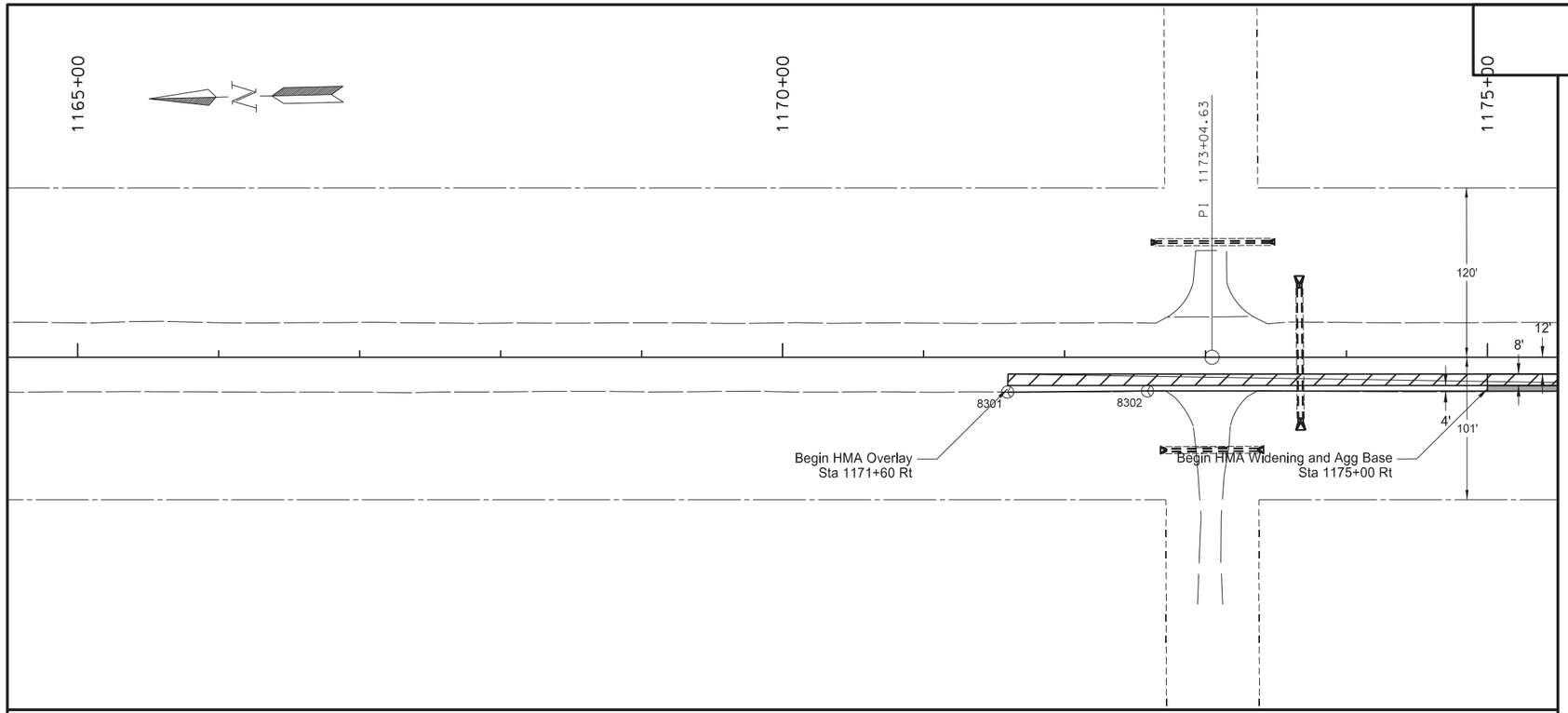

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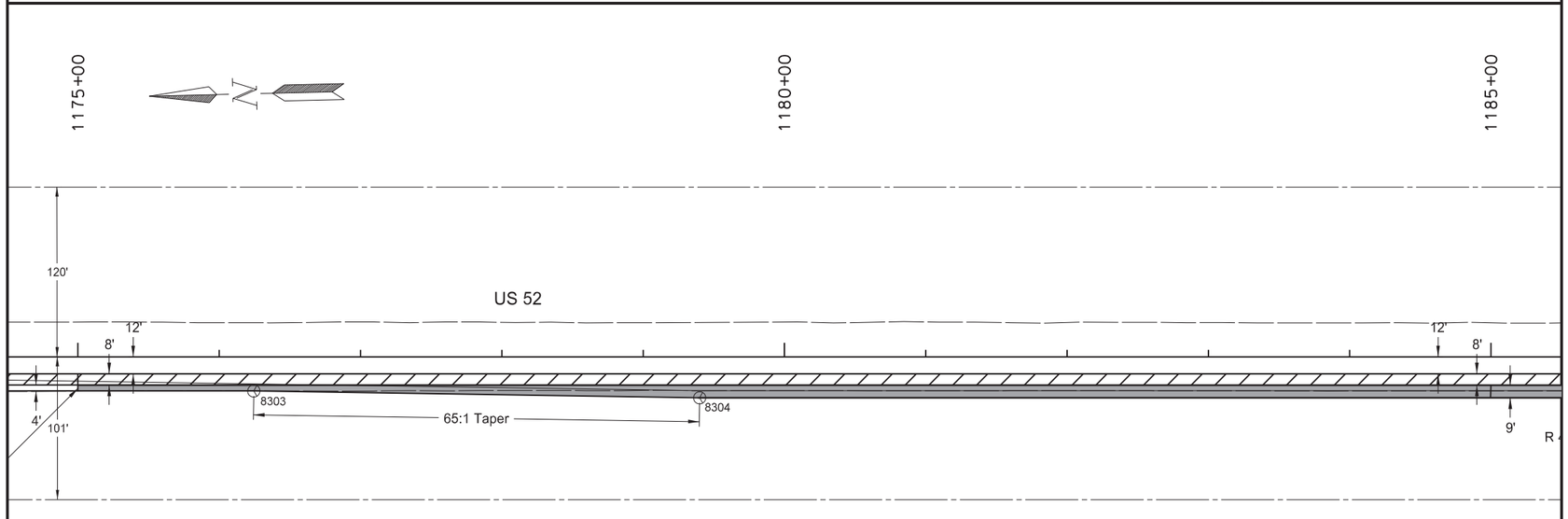
Survey Data

Passing Lane #3

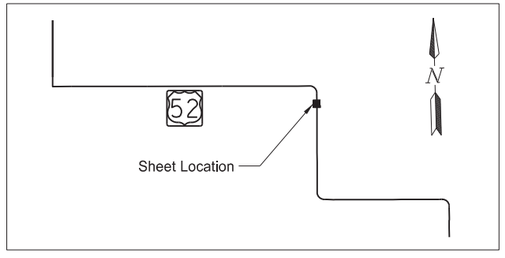
Sta 1005+00 to Sta 1025+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 22 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8301 | 690628.28 | 1549978.22 | 1171+59.58 | 24.68 |
| 8302 | 690529.07 | 1549976.59 | 1172+58.81 | 23.93 |
| 8303 | 690163.57 | 1549967.69 | 1176+24.40 | 24.15 |
| 8304 | 689848.22 | 1549955.35 | 1179+39.96 | 29.00 |



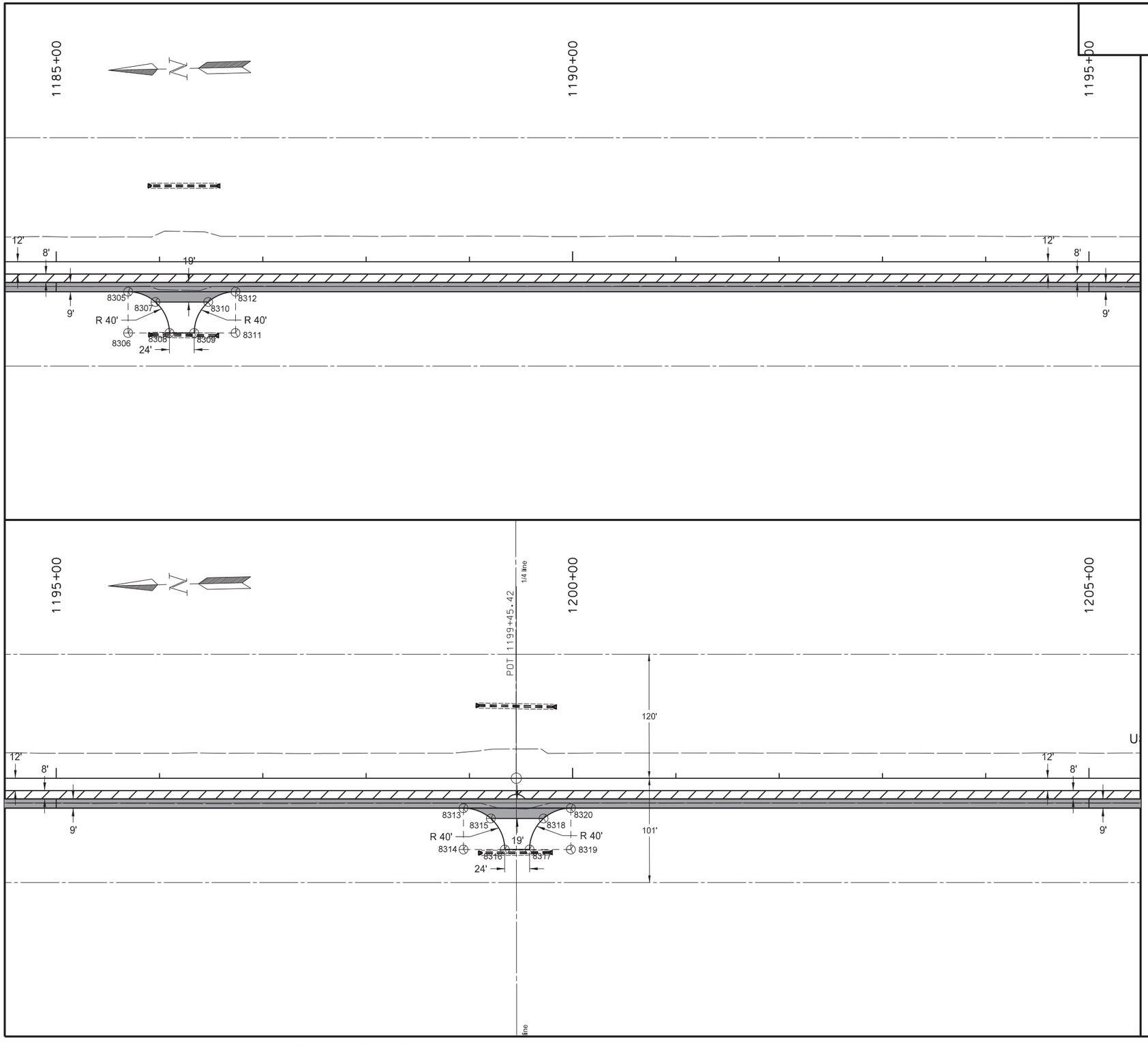

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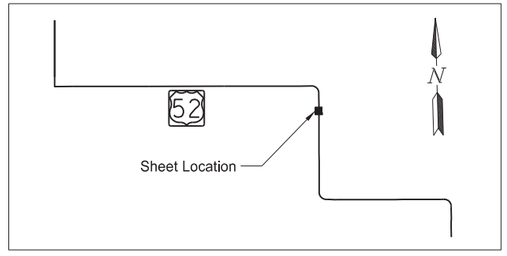
Passing Lane #4

Sta 1165+00 to Sta 1185+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 23 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8305 | 689218.82 | 1549940.40 | 1185+69.54 | 29.00 |
| 8306 | 689219.77 | 1549900.41 | 1185+69.54 | 69.00 |
| 8307 | 689192.60 | 1549929.78 | 1185+96.00 | 39.00 |
| 8308 | 689179.78 | 1549899.45 | 1186+09.54 | 69.01 |
| 8309 | 689155.78 | 1549898.90 | 1186+33.54 | 68.99 |
| 8310 | 689141.53 | 1549928.56 | 1186+47.08 | 39.00 |
| 8311 | 689115.80 | 1549897.94 | 1186+73.54 | 69.00 |
| 8312 | 689114.85 | 1549937.93 | 1186+73.54 | 29.00 |
| 8313 | 687894.45 | 1549908.95 | 1198+94.29 | 29.00 |
| 8314 | 687895.40 | 1549868.96 | 1198+94.29 | 69.00 |
| 8315 | 687868.23 | 1549898.33 | 1199+20.74 | 39.00 |
| 8316 | 687855.41 | 1549868.01 | 1199+34.29 | 69.00 |
| 8317 | 687831.41 | 1549867.45 | 1199+58.29 | 69.00 |
| 8318 | 687817.16 | 1549897.12 | 1199+71.83 | 39.00 |
| 8319 | 687791.43 | 1549866.50 | 1199+98.29 | 69.00 |
| 8320 | 687790.48 | 1549906.48 | 1199+98.29 | 29.00 |




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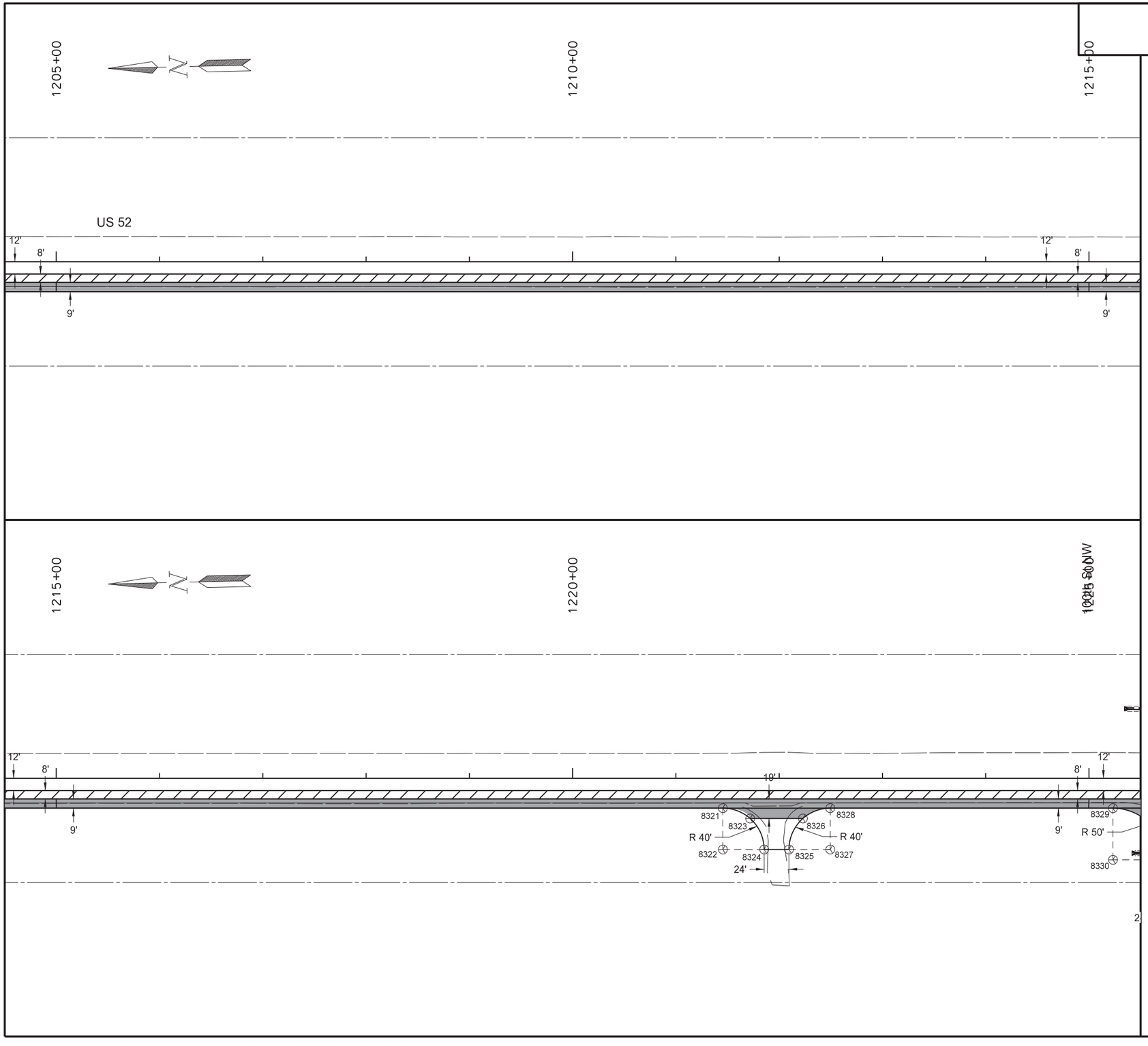
Survey Data

Passing Lane #4

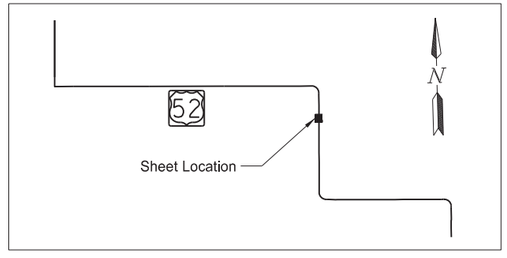
Sta 1185+00 to Sta 1205+00

6/15/2022 11:34:41 AM cfrising R:\project\70052000.034\design\Sheets\082SD_023.dgn

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 24 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8321 | 685643.91 | 1549855.51 | 1221+45.45 | 29.00 |
| 8322 | 685644.86 | 1549815.52 | 1221+45.45 | 69.00 |
| 8323 | 685617.70 | 1549844.88 | 1221+71.91 | 39.00 |
| 8324 | 685604.88 | 1549814.57 | 1221+85.45 | 69.00 |
| 8325 | 685580.88 | 1549814.00 | 1222+09.45 | 69.00 |
| 8326 | 685566.63 | 1549843.67 | 1222+23.00 | 39.00 |
| 8327 | 685540.89 | 1549813.05 | 1222+49.45 | 69.00 |
| 8328 | 685539.94 | 1549853.04 | 1222+49.45 | 29.00 |



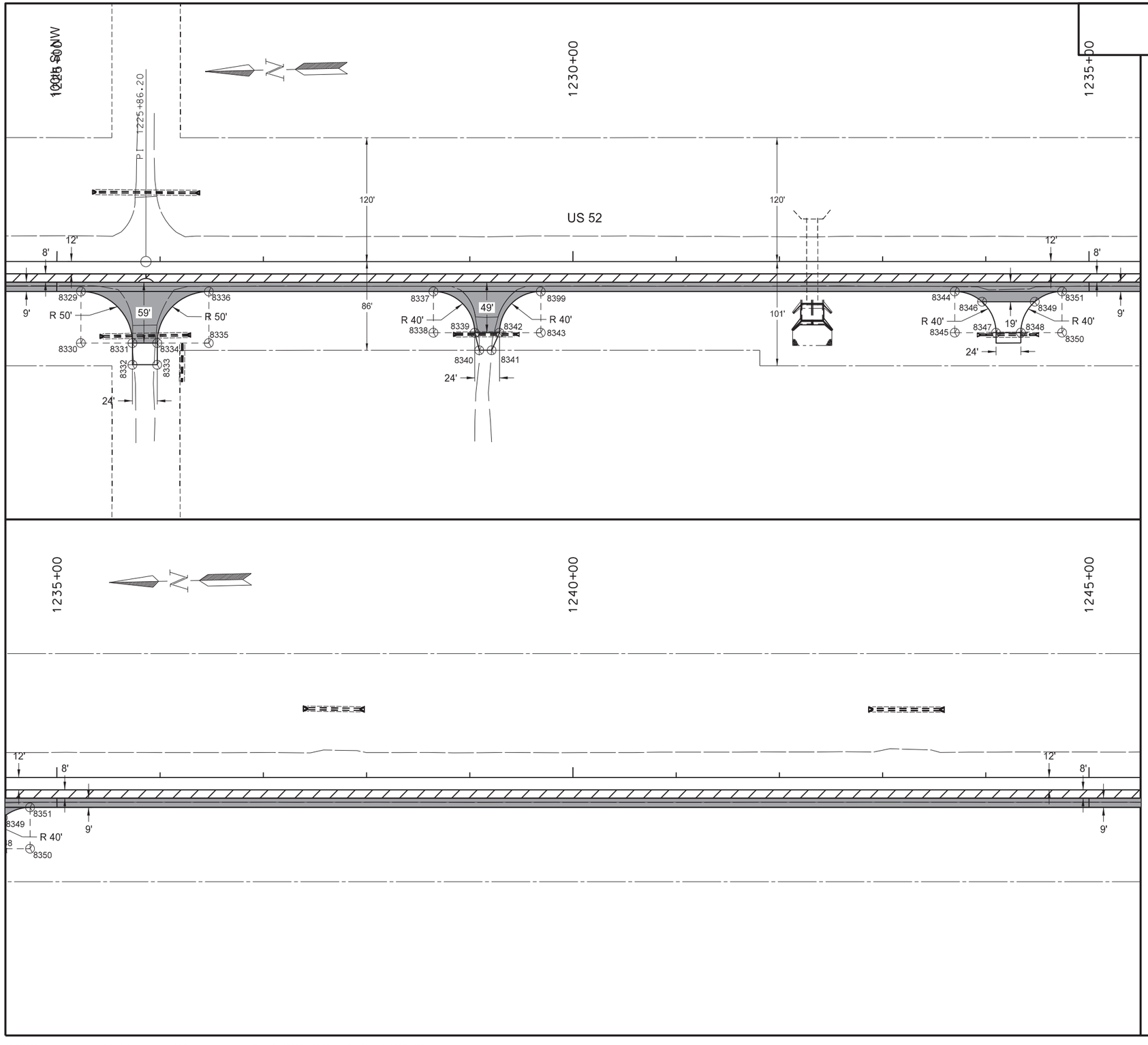

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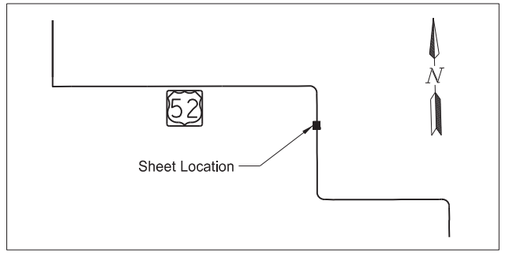
Passing Lane #4

Sta 1205+00 to Sta 1225+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 25 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8329 | 685266.24 | 1549846.54 | 1225+23.23 | 29.00 |
| 8330 | 685267.43 | 1549796.55 | 1225+23.23 | 79.00 |
| 8331 | 685217.45 | 1549795.36 | 1225+73.23 | 79.00 |
| 8332 | 685217.94 | 1549774.37 | 1225+73.23 | 100.00 |
| 8333 | 685193.95 | 1549773.80 | 1225+97.14 | 100.01 |
| 8334 | 685193.45 | 1549794.85 | 1225+97.16 | 78.95 |
| 8335 | 685143.47 | 1549793.66 | 1226+47.16 | 79.00 |
| 8336 | 685142.32 | 1549843.65 | 1226+47.16 | 29.00 |
| 8337 | 684924.76 | 1549838.69 | 1228+64.78 | 29.00 |
| 8338 | 684925.67 | 1549798.70 | 1228+64.78 | 69.00 |
| 8339 | 684885.69 | 1549797.75 | 1229+04.78 | 69.04 |
| 8340 | 684881.68 | 1549780.69 | 1229+09.16 | 86.00 |
| 8341 | 684869.72 | 1549780.41 | 1229+21.13 | 86.00 |
| 8342 | 684861.69 | 1549797.27 | 1229+28.78 | 68.96 |
| 8343 | 684821.70 | 1549796.32 | 1229+68.78 | 69.00 |
| 8344 | 684419.76 | 1549827.16 | 1233+69.90 | 29.00 |
| 8345 | 684420.68 | 1549787.17 | 1233+69.90 | 69.00 |
| 8346 | 684393.54 | 1549816.56 | 1233+96.36 | 39.00 |
| 8347 | 684380.69 | 1549786.22 | 1234+09.90 | 69.04 |
| 8348 | 684356.69 | 1549785.75 | 1234+33.91 | 68.96 |
| 8349 | 684342.47 | 1549815.40 | 1234+47.45 | 39.00 |
| 8350 | 684316.70 | 1549784.80 | 1234+73.90 | 69.00 |
| 8351 | 684315.79 | 1549824.79 | 1234+73.90 | 29.00 |
| 8399 | 684820.79 | 1549836.31 | 1229+68.78 | 29.00 |



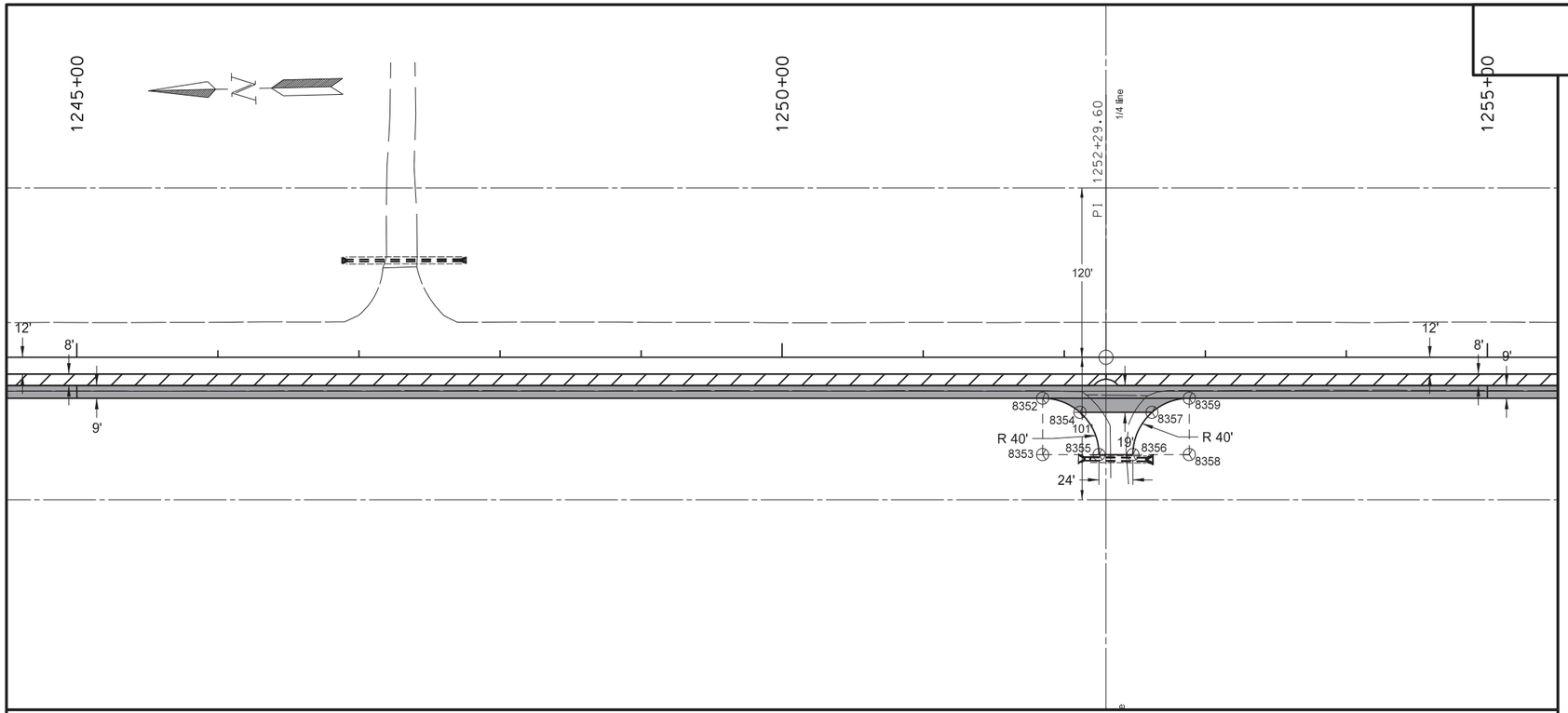

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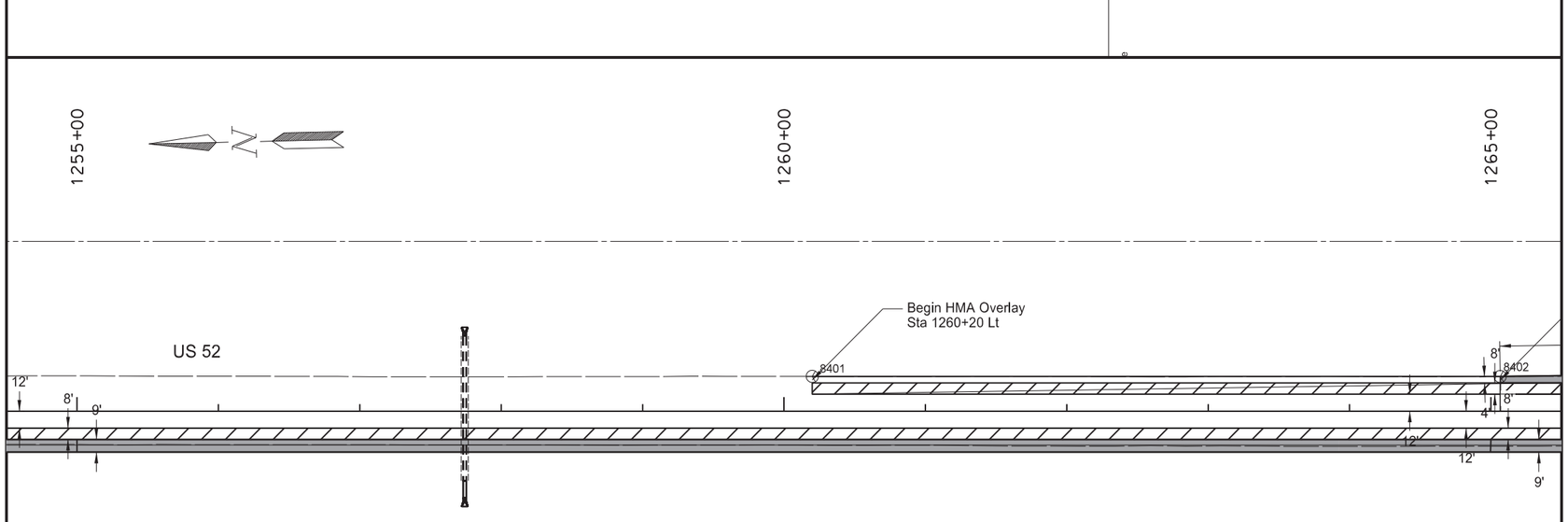
Survey Data

Passing Lane #4

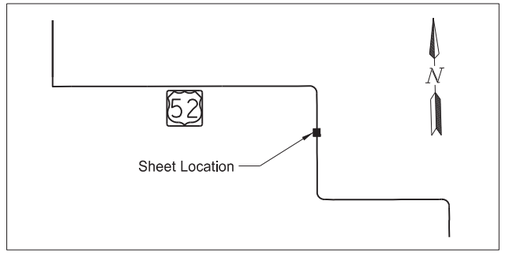
Sta 1225+00 to Sta 1245+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 26 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8352 | 682605.47 | 1549785.76 | 1251+84.67 | 29.00 |
| 8353 | 682606.38 | 1549745.77 | 1251+84.68 | 69.00 |
| 8354 | 682579.24 | 1549775.16 | 1252+11.13 | 39.00 |
| 8355 | 682566.39 | 1549744.86 | 1252+24.68 | 69.00 |
| 8356 | 682542.39 | 1549744.32 | 1252+48.67 | 69.00 |
| 8357 | 682528.17 | 1549774.00 | 1252+62.21 | 39.00 |
| 8358 | 682502.40 | 1549743.41 | 1252+88.67 | 69.00 |
| 8359 | 682501.49 | 1549783.40 | 1252+88.67 | 29.00 |
| 8401 | 681769.14 | 1549820.36 | 1260+20.00 | -24.56 |
| 8402 | 681282.69 | 1549809.25 | 1265+06.57 | -24.49 |



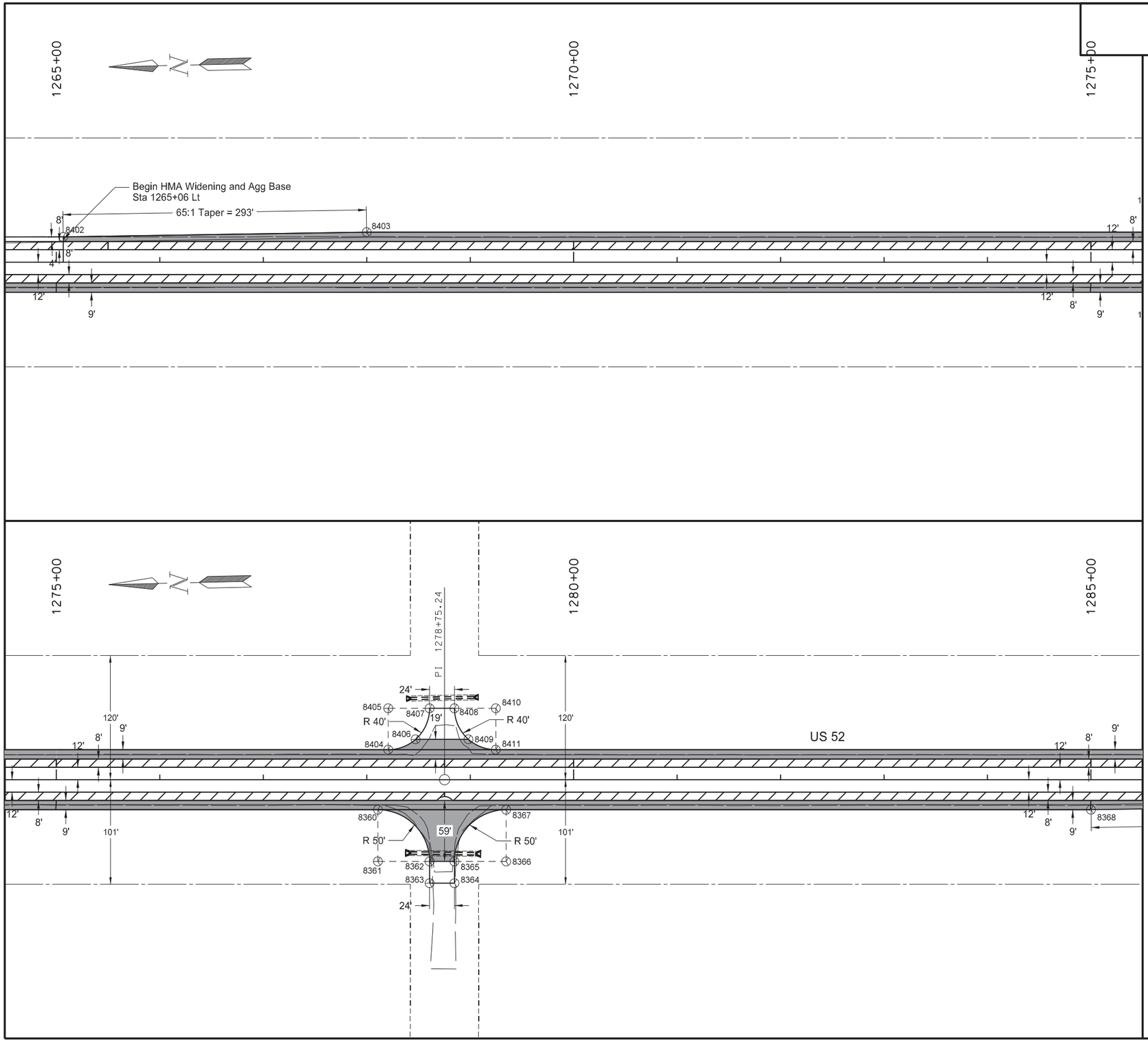

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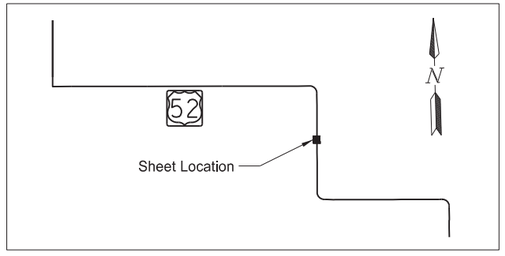
Passing Lane #4 & #5

Sta 1245+00 to Sta 1265+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 27 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8360 | 679980.07 | 1549726.20 | 1278+10.75 | 29.00 |
| 8361 | 679981.20 | 1549676.21 | 1278+10.75 | 79.00 |
| 8362 | 679931.21 | 1549675.08 | 1278+60.75 | 79.00 |
| 8363 | 679931.69 | 1549654.08 | 1278+60.75 | 100.00 |
| 8364 | 679907.70 | 1549653.54 | 1278+84.75 | 100.00 |
| 8365 | 679907.22 | 1549674.53 | 1278+84.75 | 79.00 |
| 8366 | 679857.23 | 1549673.40 | 1279+34.75 | 79.00 |
| 8367 | 679856.10 | 1549723.38 | 1279+34.75 | 29.00 |
| 8368 | 679290.95 | 1549710.52 | 1285+00.04 | 29.00 |
| 8402 | 681282.69 | 1549809.25 | 1265+06.57 | -24.49 |
| 8403 | 680989.28 | 1549807.11 | 1267+99.96 | -29.00 |
| 8404 | 679968.76 | 1549783.96 | 1278+20.74 | -29.00 |
| 8405 | 679967.85 | 1549823.95 | 1278+20.75 | -69.00 |
| 8406 | 679942.07 | 1549793.36 | 1278+47.21 | -39.00 |
| 8407 | 679927.86 | 1549823.04 | 1278+60.75 | -69.00 |
| 8408 | 679903.86 | 1549822.49 | 1278+84.74 | -69.00 |
| 8409 | 679891.00 | 1549792.19 | 1278+98.29 | -39.00 |
| 8410 | 679863.87 | 1549821.58 | 1279+24.74 | -69.00 |
| 8411 | 679864.78 | 1549781.60 | 1279+24.74 | -29.00 |



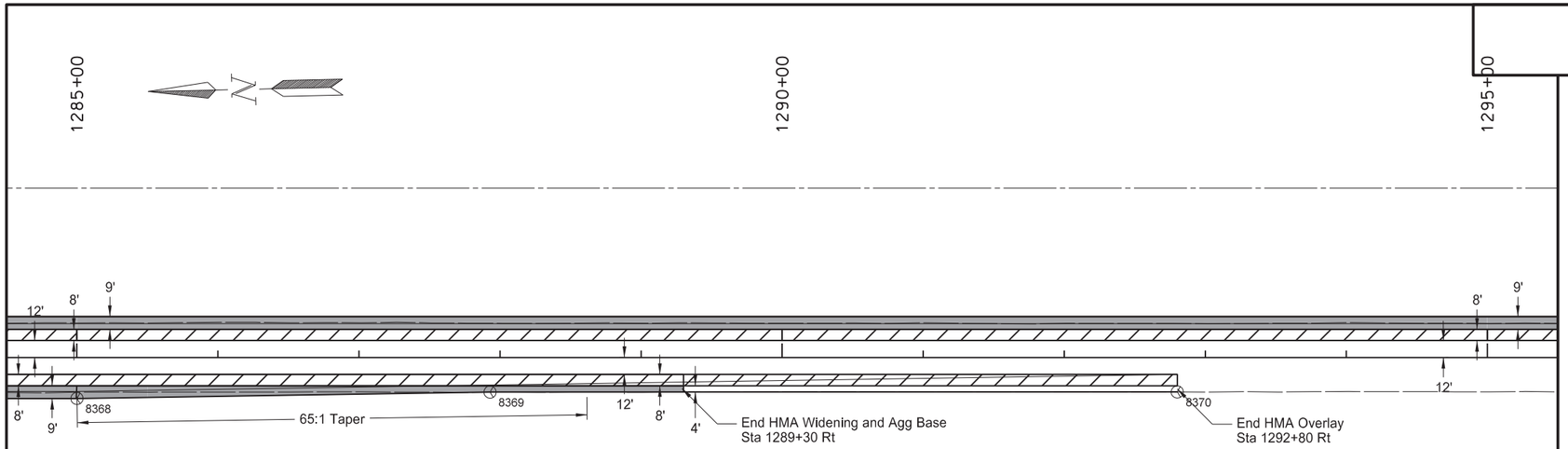

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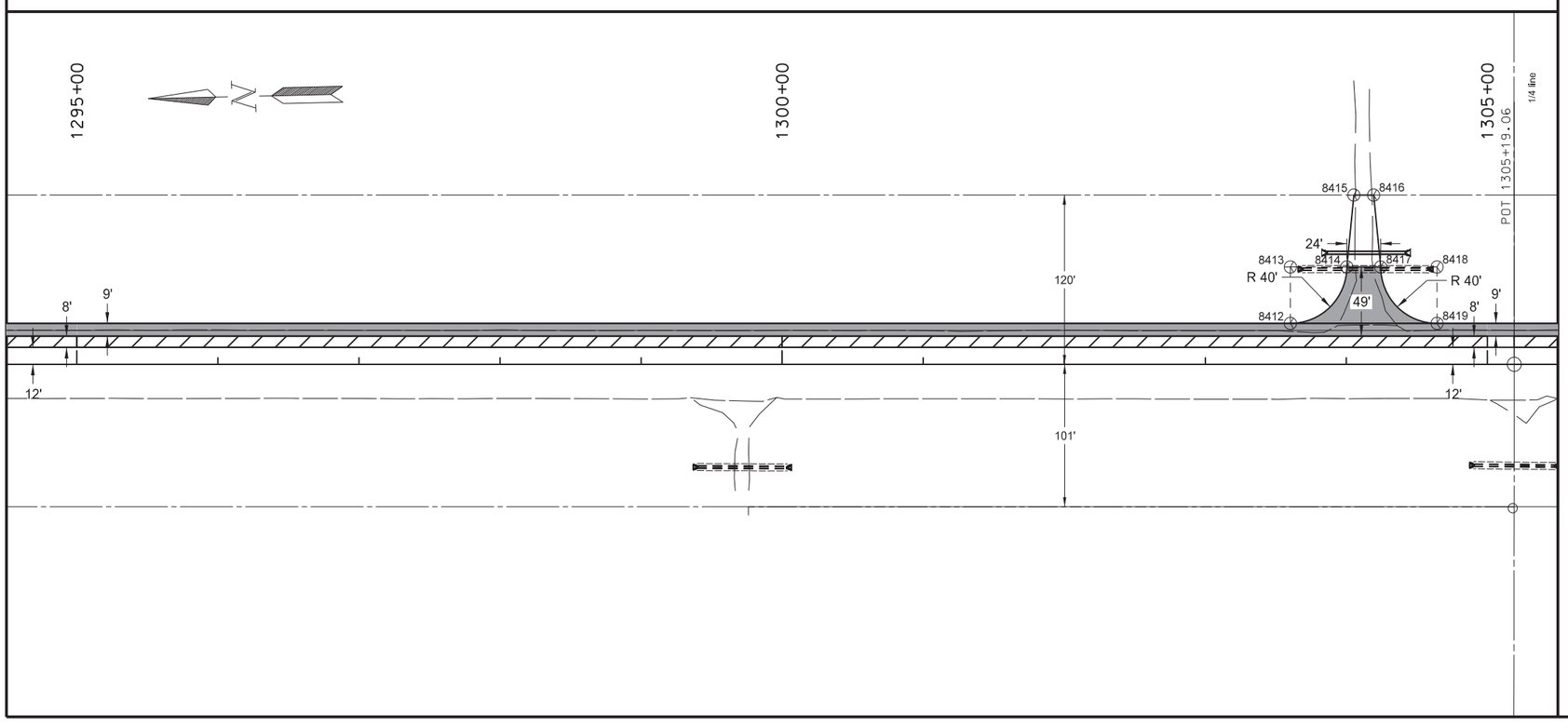
Survey Data

Passing Lane #4 & #5

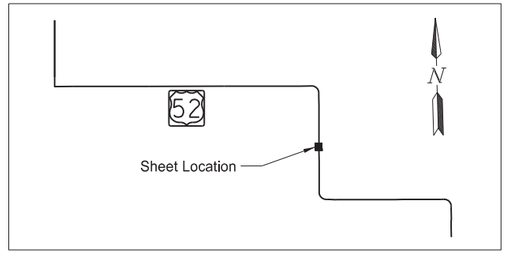
Sta 1265+00 to Sta 1285+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 28 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8368 | 679290.95 | 1549710.52 | 1285+00.04 | 29.00 |
| 8369 | 678998.06 | 1549708.37 | 1287+92.91 | 24.49 |
| 8370 | 678510.94 | 1549697.38 | 1292+80.15 | 24.40 |
| 8412 | 677429.83 | 1549726.20 | 1303+60.33 | -29.00 |
| 8413 | 677428.92 | 1549766.19 | 1303+60.33 | -69.00 |
| 8414 | 677388.93 | 1549765.28 | 1304+00.33 | -69.00 |
| 8415 | 677382.77 | 1549816.15 | 1304+05.32 | -120.00 |
| 8416 | 677368.78 | 1549815.83 | 1304+19.32 | -120.00 |
| 8417 | 677364.94 | 1549764.73 | 1304+24.33 | -69.00 |
| 8418 | 677324.95 | 1549763.82 | 1304+64.33 | -69.00 |
| 8419 | 677325.86 | 1549723.83 | 1304+64.33 | -29.00 |




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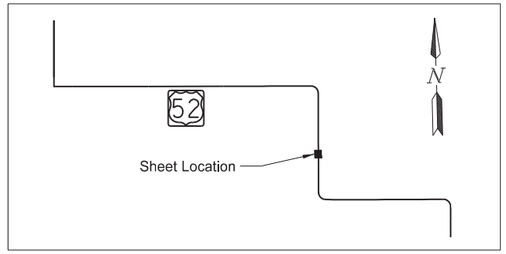
Passing Lane #4 & #5

Sta 1285+00 to Sta 1305+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 29 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8418 | 677324.95 | 1549763.82 | 1304+64.33 | -69.00 |
| 8419 | 677325.86 | 1549723.83 | 1304+64.33 | -29.00 |
| 8420 | 677177.11 | 1549720.44 | 1306+13.11 | -29.00 |
| 8421 | 677176.20 | 1549760.43 | 1306+13.11 | -69.00 |
| 8422 | 677150.43 | 1549729.84 | 1306+39.57 | -39.00 |
| 8423 | 677136.21 | 1549759.52 | 1306+53.11 | -69.00 |
| 8424 | 677135.93 | 1549771.81 | 1306+53.11 | -81.29 |
| 8425 | 677111.71 | 1549780.96 | 1306+77.11 | -91.00 |
| 8426 | 677112.21 | 1549758.97 | 1306+77.11 | -69.00 |
| 8427 | 677099.36 | 1549728.67 | 1306+90.65 | -39.00 |
| 8428 | 677072.22 | 1549758.06 | 1307+17.11 | -69.00 |
| 8429 | 677073.13 | 1549718.07 | 1307+17.11 | -29.00 |
| 8430 | 676008.89 | 1549693.81 | 1317+81.63 | -29.00 |
| 8431 | 676007.98 | 1549733.80 | 1317+81.63 | -69.00 |
| 8432 | 675982.21 | 1549703.21 | 1318+08.09 | -39.00 |
| 8433 | 675967.99 | 1549732.89 | 1318+21.63 | -69.00 |
| 8434 | 675967.62 | 1549749.15 | 1318+21.63 | -85.26 |
| 8435 | 675943.34 | 1549760.99 | 1318+45.63 | -97.66 |
| 8436 | 675944.00 | 1549732.34 | 1318+45.63 | -69.00 |
| 8437 | 675931.14 | 1549702.04 | 1318+59.17 | -39.00 |
| 8438 | 675904.01 | 1549731.43 | 1318+85.63 | -69.00 |
| 8439 | 675904.92 | 1549691.44 | 1318+85.63 | -29.00 |



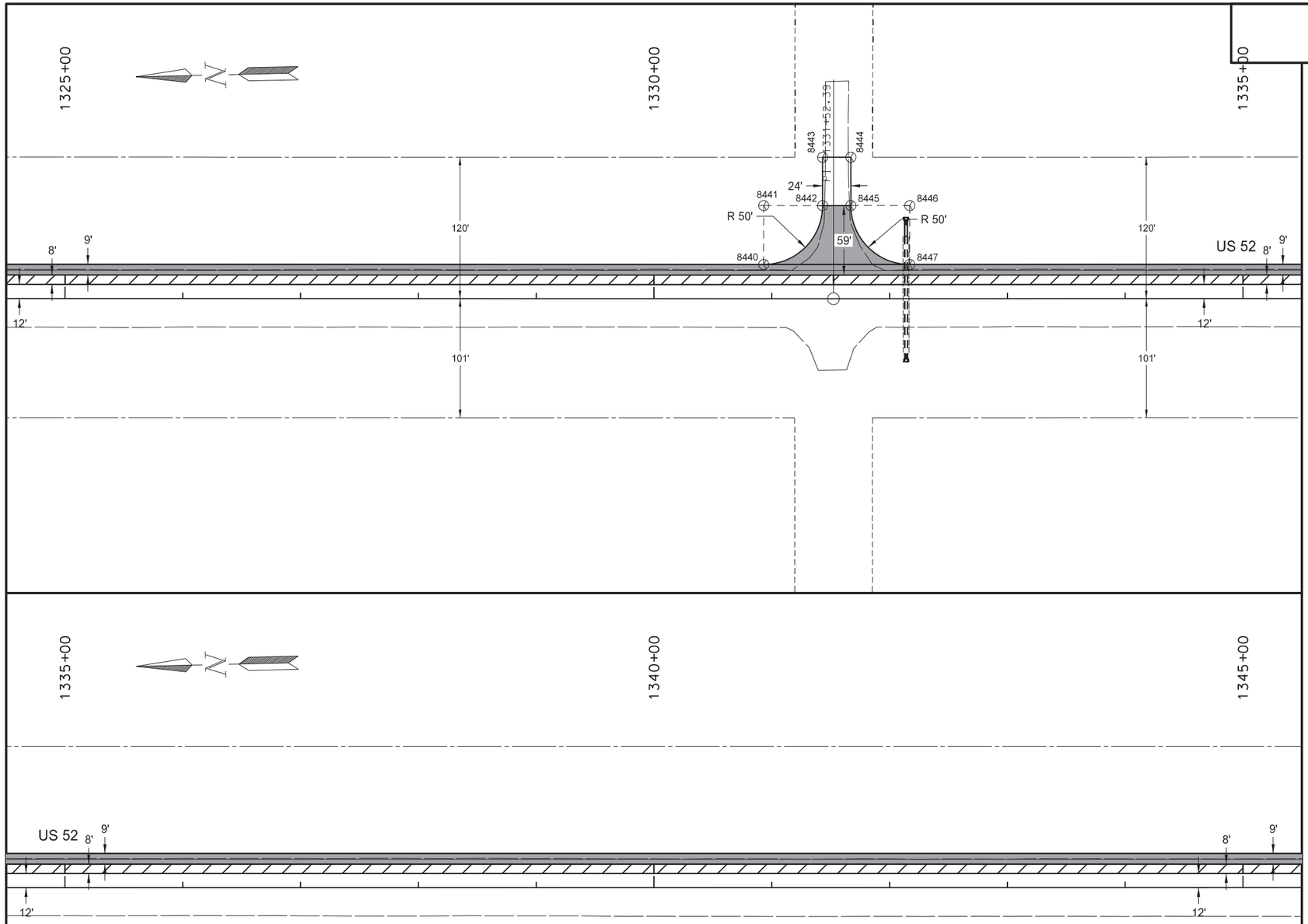

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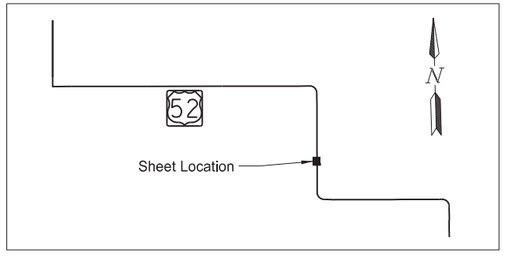
Passing Lane #5

Sta 1305+00 to Sta 1325+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 30 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8440 | 674697.77 | 1549663.93 | 1330+93.09 | -29.00 |
| 8441 | 674696.63 | 1549713.91 | 1330+93.09 | -79.00 |
| 8442 | 674646.65 | 1549712.78 | 1331+43.09 | -79.00 |
| 8443 | 674645.71 | 1549753.76 | 1331+43.09 | -119.99 |
| 8444 | 674621.72 | 1549753.23 | 1331+67.18 | -120.00 |
| 8445 | 674622.65 | 1549712.27 | 1331+67.15 | -79.04 |
| 8446 | 674572.66 | 1549711.14 | 1332+17.15 | -79.00 |
| 8447 | 674573.77 | 1549661.15 | 1332+17.15 | -29.00 |



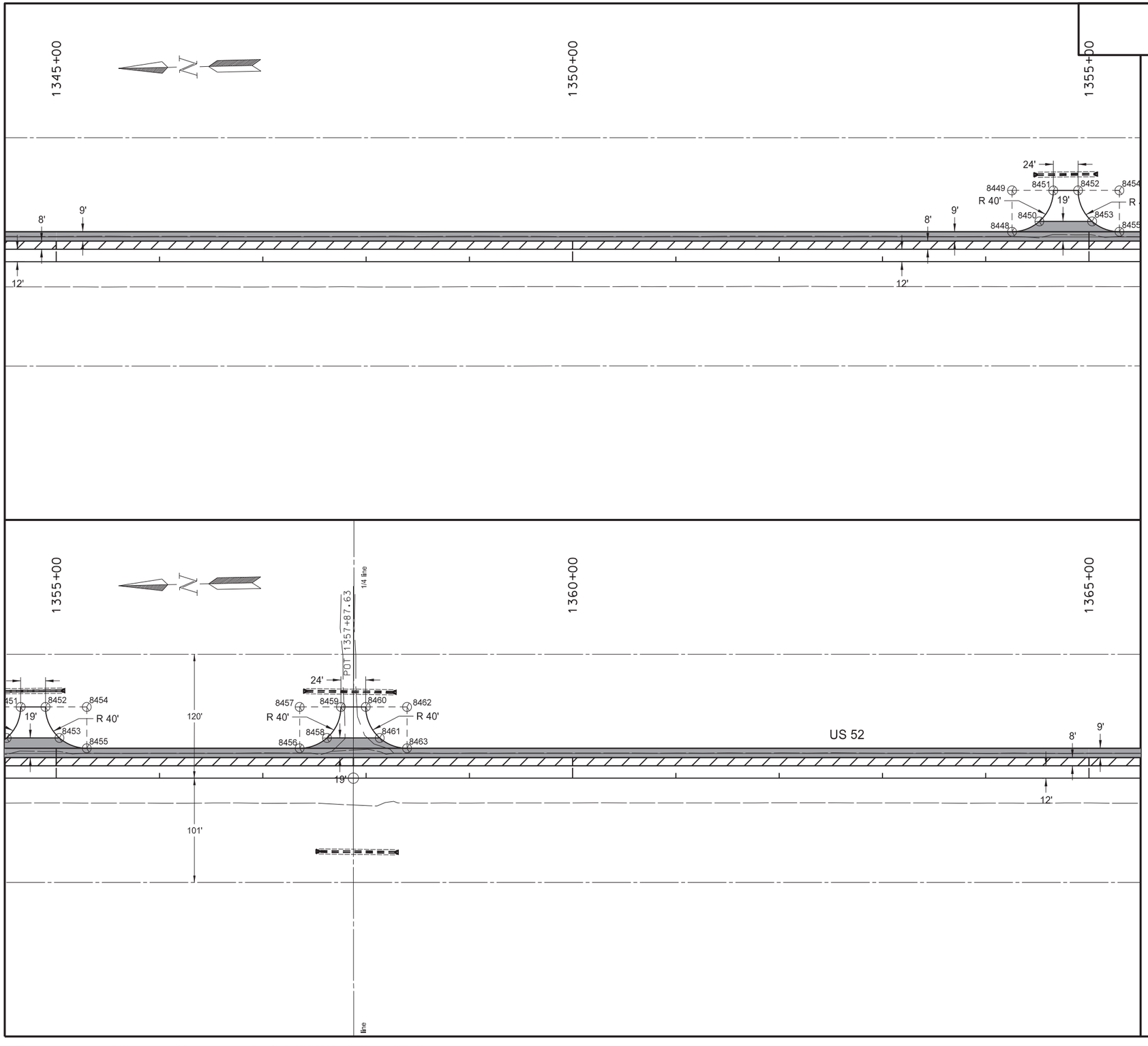

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09/01/23

Survey Data

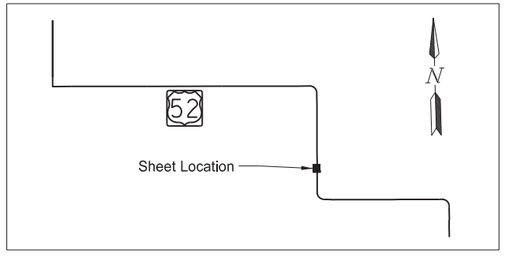
Passing Lane #5

Sta 1325+00 to Sta 1345+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 31 |




| PoInt | North | East | Station | Offset |
|---|---|---|---|---|
| 8448 | 672365.97 | 1549612.48 | 1354+25.48 | -29.00 |
| 8449 | 672365.09 | 1549652.47 | 1354+25.48 | -69.00 |
| 8450 | 672339.30 | 1549621.90 | 1354+51.94 | -39.00 |
| 8451 | 672325.10 | 1549651.56 | 1354+65.48 | -68.97 |
| 8452 | 672301.10 | 1549651.09 | 1354+89.48 | -69.03 |
| 8453 | 672288.23 | 1549620.77 | 1355+03.03 | -39.00 |
| 8454 | 672261.11 | 1549650.18 | 1355+29.48 | -69.00 |
| 8455 | 672261.99 | 1549610.19 | 1355+29.48 | -29.00 |
| 8456 | 672055.89 | 1549605.65 | 1357+35.64 | -29.00 |
| 8457 | 672055.01 | 1549645.64 | 1357+35.64 | -69.00 |
| 8458 | 672029.22 | 1549615.06 | 1357+62.10 | -39.00 |
| 8459 | 672015.02 | 1549644.73 | 1357+75.64 | -68.97 |
| 8460 | 671991.02 | 1549644.26 | 1357+99.64 | -69.03 |
| 8461 | 671978.14 | 1549613.94 | 1358+13.19 | -39.00 |
| 8462 | 671951.03 | 1549643.35 | 1358+39.64 | -69.00 |
| 8463 | 671951.91 | 1549603.36 | 1358+39.64 | -29.00 |



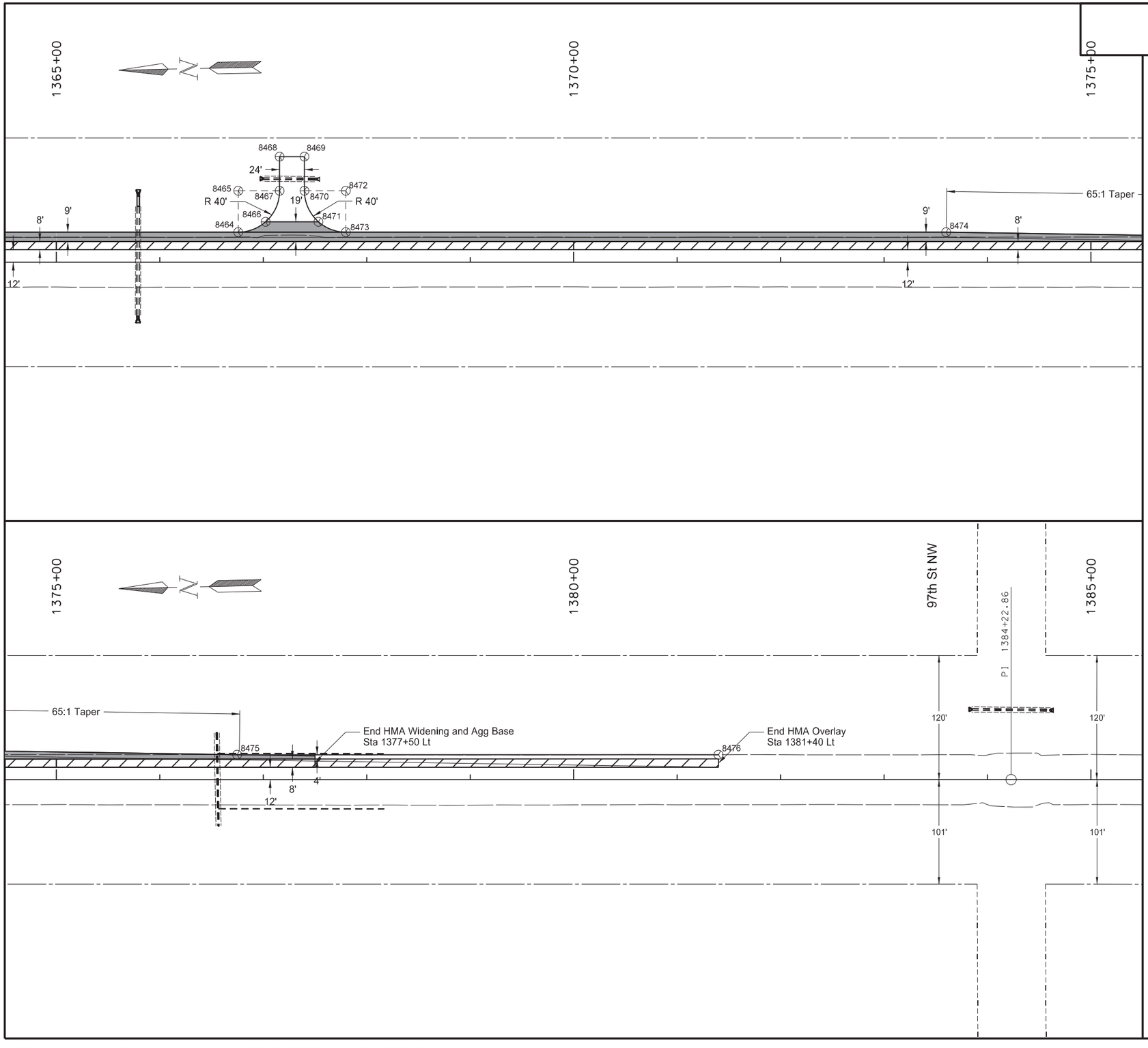

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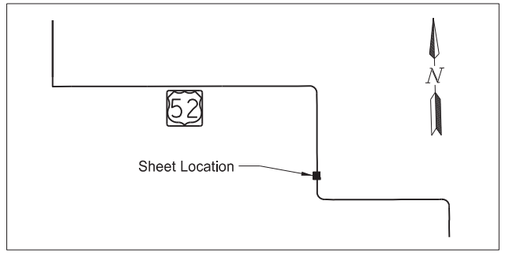
Passing Lane #5

Sta 1345+00 to Sta 1365+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 32 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8464 | 671116.00 | 1549584.97 | 1366+75.76 | -29.00 |
| 8465 | 671115.12 | 1549624.96 | 1366+75.76 | -69.00 |
| 8466 | 671089.33 | 1549594.39 | 1367+02.22 | -39.00 |
| 8467 | 671075.13 | 1549624.08 | 1367+15.76 | -69.00 |
| 8468 | 671074.40 | 1549657.07 | 1367+15.76 | -102.00 |
| 8469 | 671050.41 | 1549656.54 | 1367+39.76 | -102.00 |
| 8470 | 671051.13 | 1549623.55 | 1367+39.76 | -69.00 |
| 8471 | 671038.25 | 1549593.26 | 1367+53.30 | -39.00 |
| 8472 | 671011.14 | 1549622.67 | 1367+79.76 | -69.00 |
| 8473 | 671012.02 | 1549582.68 | 1367+79.76 | -29.00 |
| 8474 | 670431.88 | 1549569.92 | 1373+60.04 | -29.00 |
| 8475 | 670117.45 | 1549558.16 | 1376+74.65 | -24.16 |
| 8476 | 669652.22 | 1549547.87 | 1381+40.00 | -24.10 |




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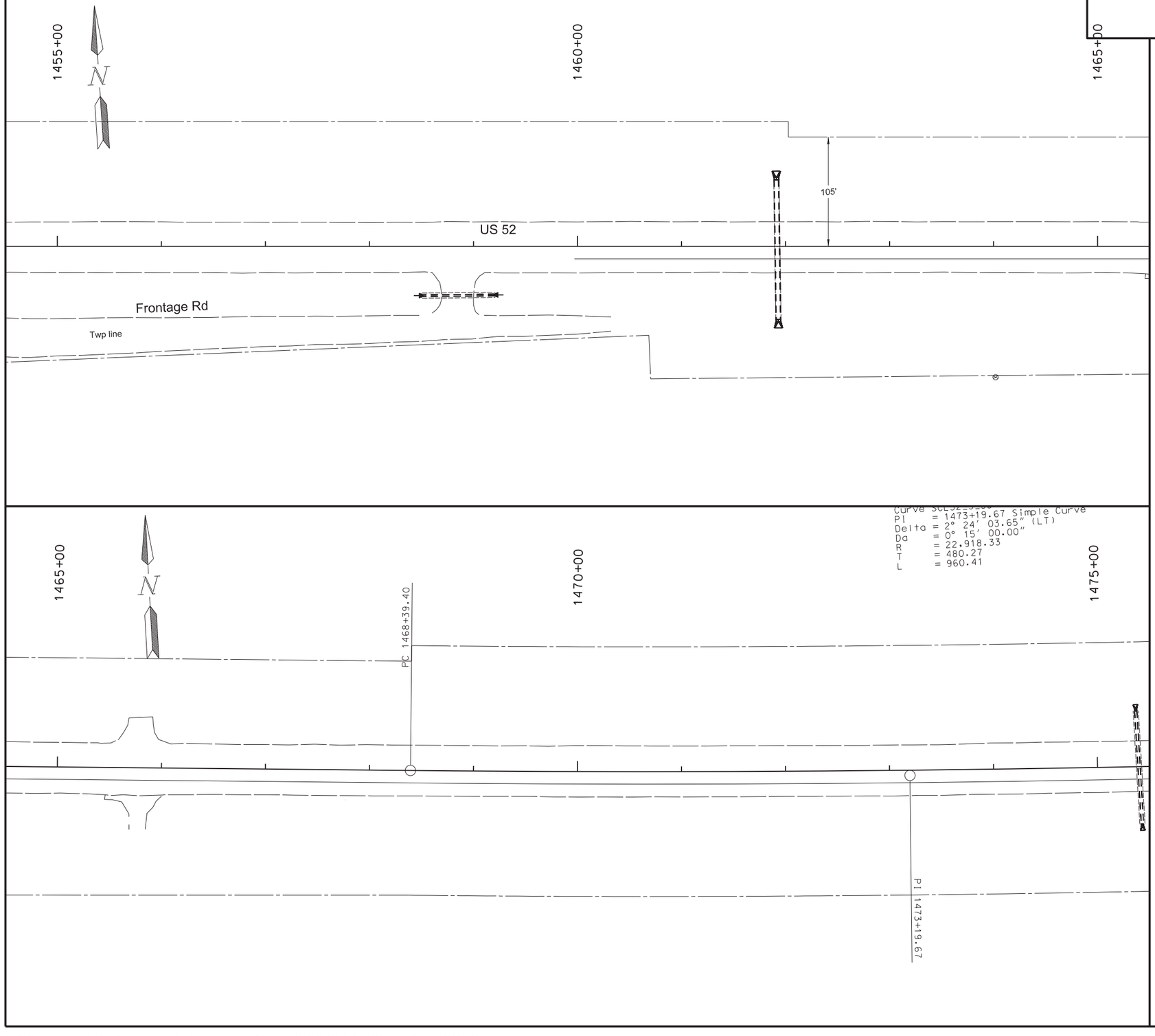
Survey Data

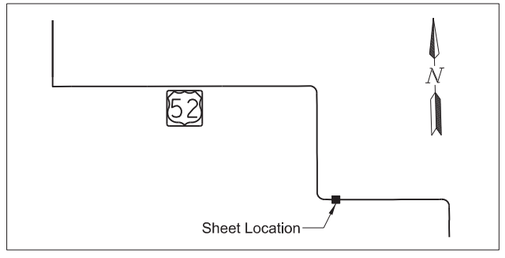
Passing Lane #5

Sta 1365+00 to Sta 1385+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 33 |



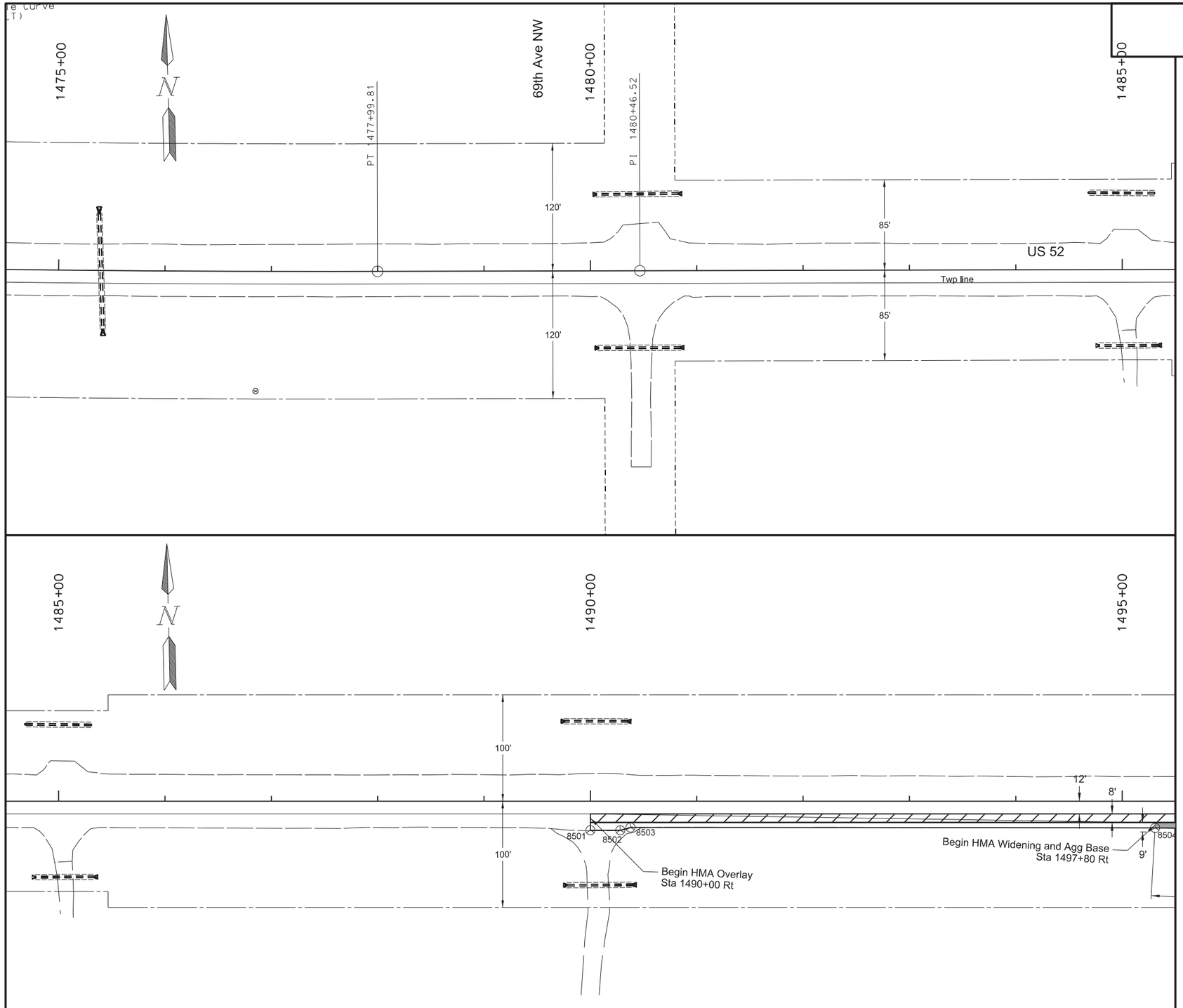

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Survey Data

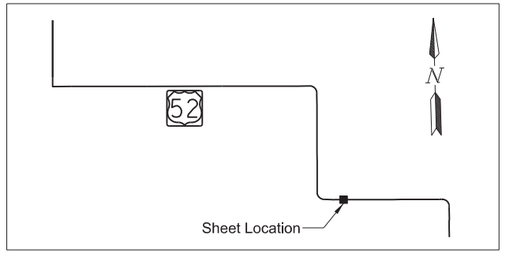
Passing Lane #6

Sta 1455+00 to Sta 1475+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 34 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8501 | 663899.14 | 1555609.83 | 1490+00.00 | 27.39 |
| 8502 | 663898.49 | 1555637.94 | 1490+28.11 | 27.39 |
| 8503 | 663900.84 | 1555647.54 | 1490+37.65 | 24.81 |
| 8504 | 663889.05 | 1556140.74 | 1495+31.00 | 25.17 |



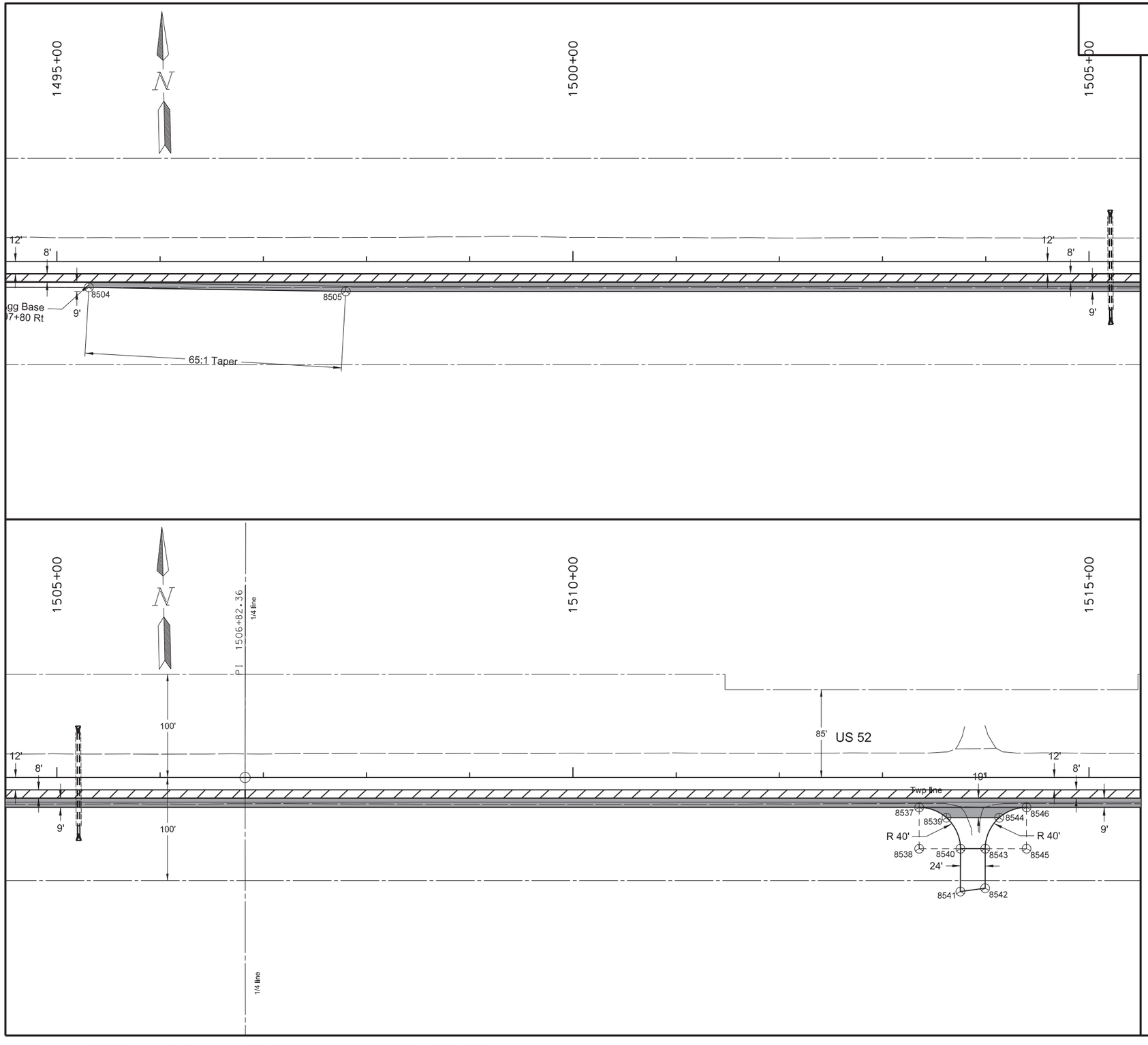

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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

Survey Data

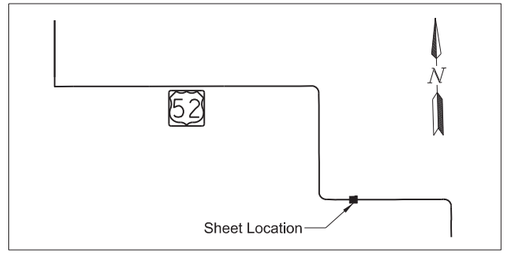
Passing Lane #6

Sta 1475+00 to Sta 1495+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 35 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8504 | 663889.05 | 1556140.74 | 1495+31.00 | 25.17 |
| 8505 | 663879.45 | 1556389.51 | 1497+79.92 | 29.00 |
| 8537 | 663843.40 | 1557944.67 | 1513+35.50 | 29.00 |
| 8538 | 663803.41 | 1557943.74 | 1513+35.50 | 69.00 |
| 8539 | 663832.79 | 1557970.89 | 1513+61.96 | 39.00 |
| 8540 | 663802.48 | 1557983.73 | 1513+75.50 | 69.00 |
| 8541 | 663760.95 | 1557982.68 | 1513+75.42 | 110.55 |
| 8542 | 663763.62 | 1558006.74 | 1513+99.40 | 107.32 |
| 8543 | 663801.93 | 1558007.72 | 1513+99.50 | 69.00 |
| 8544 | 663831.60 | 1558021.96 | 1514+13.04 | 39.00 |
| 8545 | 663801.00 | 1558047.71 | 1514+39.50 | 69.00 |
| 8546 | 663840.99 | 1558048.64 | 1514+39.50 | 29.00 |



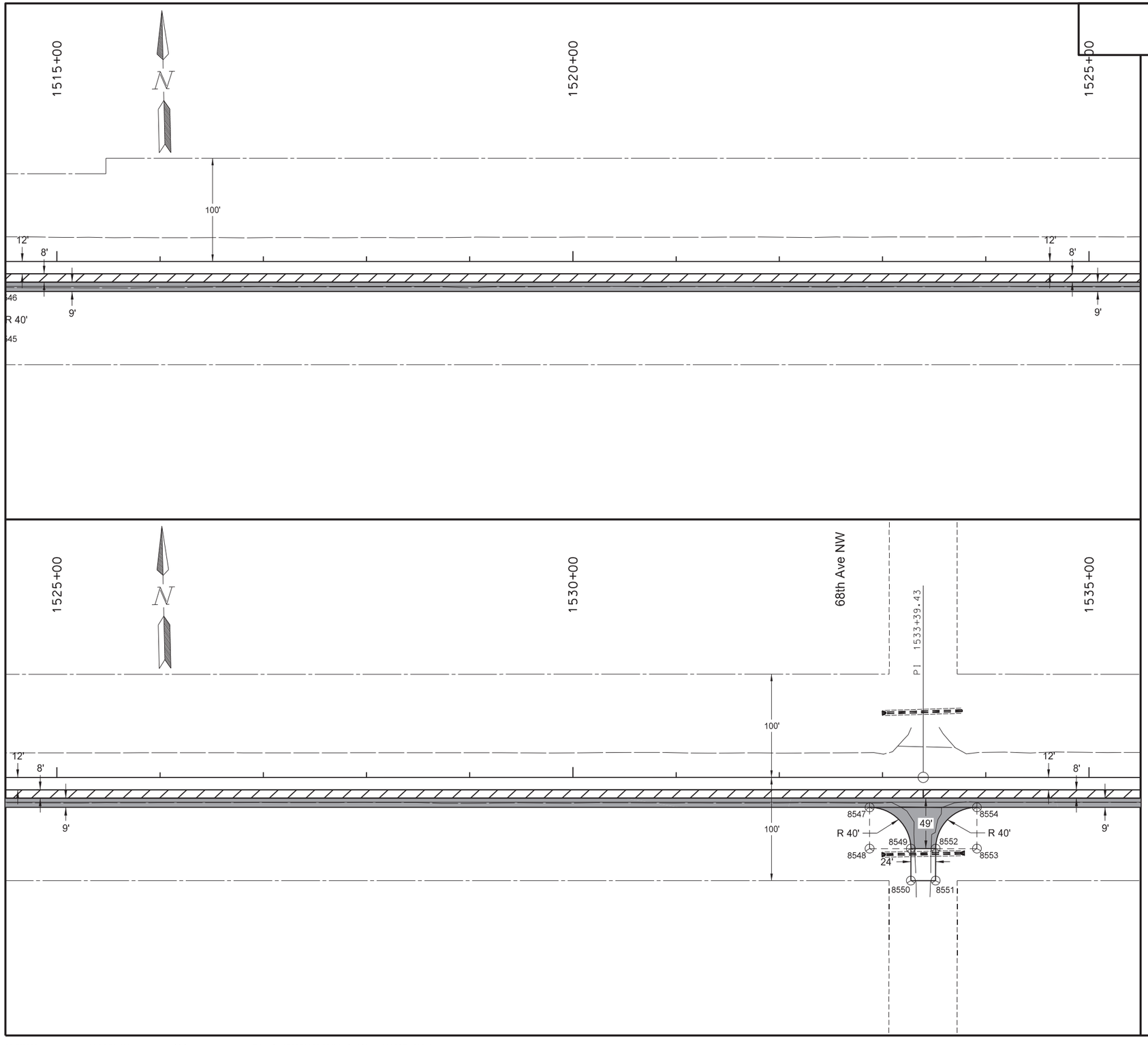

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NORTH DAKOTA
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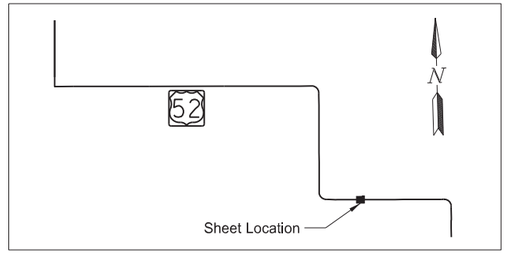
Passing Lane #6

Sta 1495+00 to Sta 1515+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 36 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8547 | 663798.16 | 1559896.09 | 1532+87.45 | 29.02 |
| 8548 | 663758.17 | 1559895.17 | 1532+87.45 | 69.02 |
| 8549 | 663757.24 | 1559935.16 | 1533+27.45 | 69.02 |
| 8550 | 663726.26 | 1559934.43 | 1533+27.44 | 100.00 |
| 8551 | 663725.71 | 1559958.42 | 1533+51.50 | 99.99 |
| 8552 | 663756.68 | 1559959.15 | 1533+51.49 | 69.01 |
| 8553 | 663755.75 | 1559999.14 | 1533+91.49 | 68.99 |
| 8554 | 663795.74 | 1560000.07 | 1533+91.47 | 28.99 |



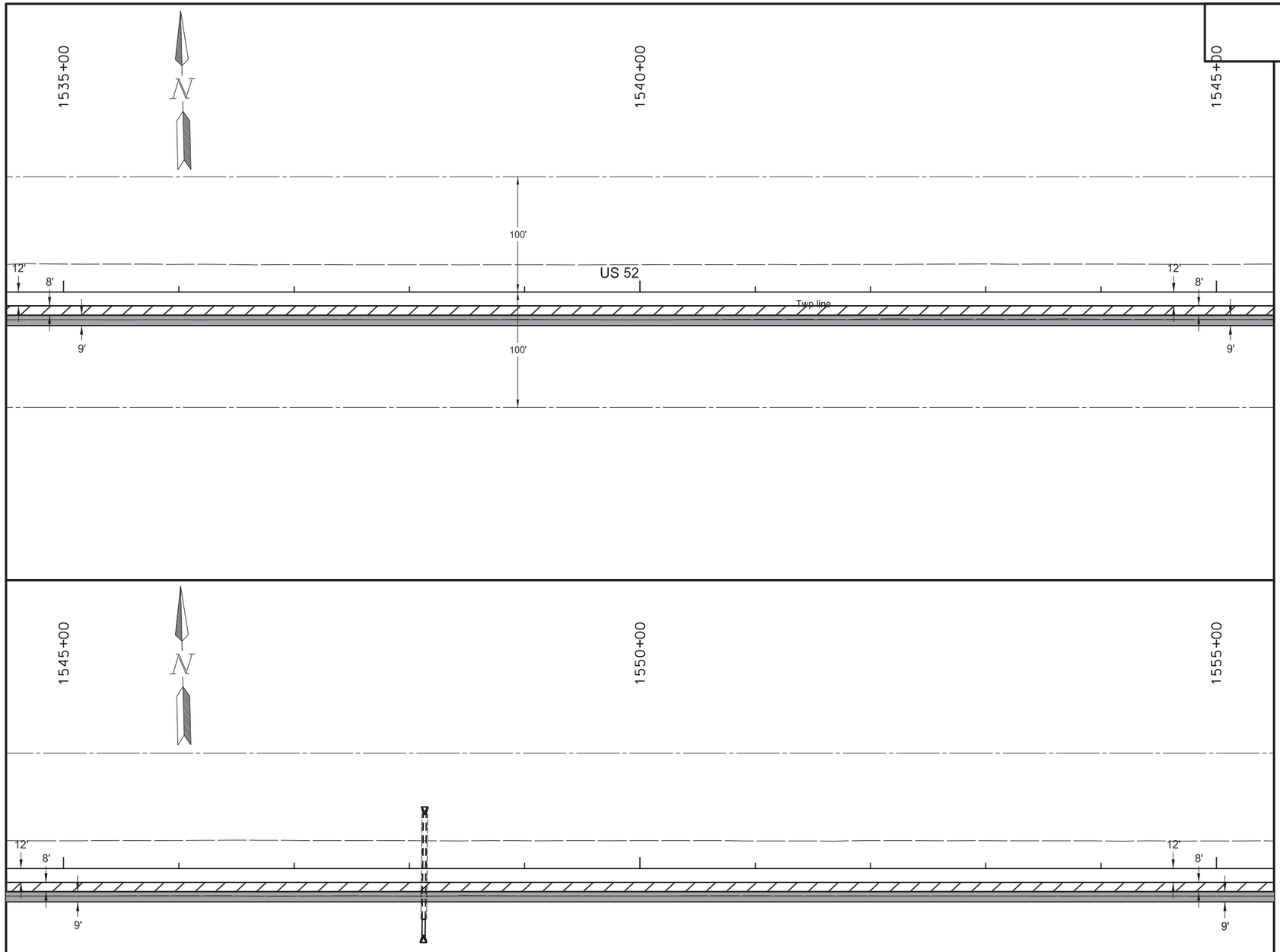

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NORTH DAKOTA
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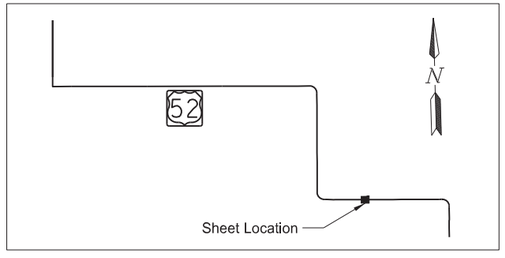
Survey Data

Passing Lane #6

Sta 1515+00 to Sta 1535+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 37 |



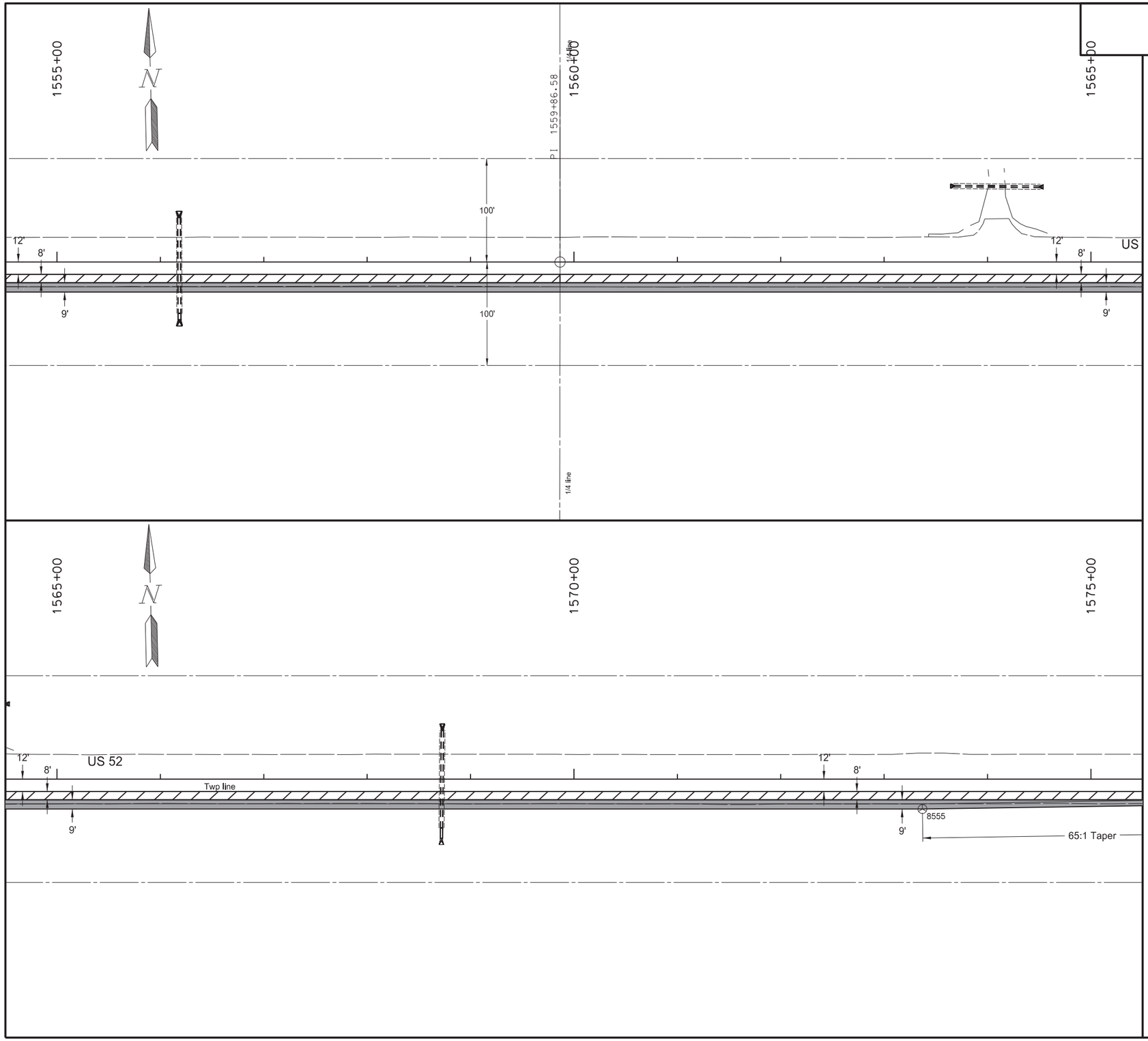

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09/01/23

Survey Data

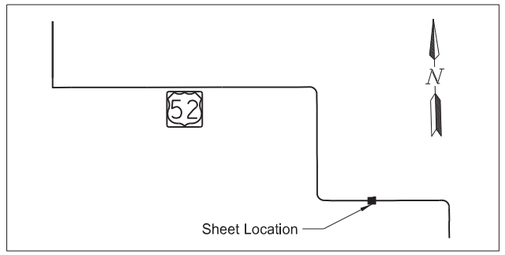
Passing Lane #6

Sta 1535+00 to Sta 1555+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 38 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8555 | 663701.90 | 1563944.52 | 1573+37.04 | 29.00 |




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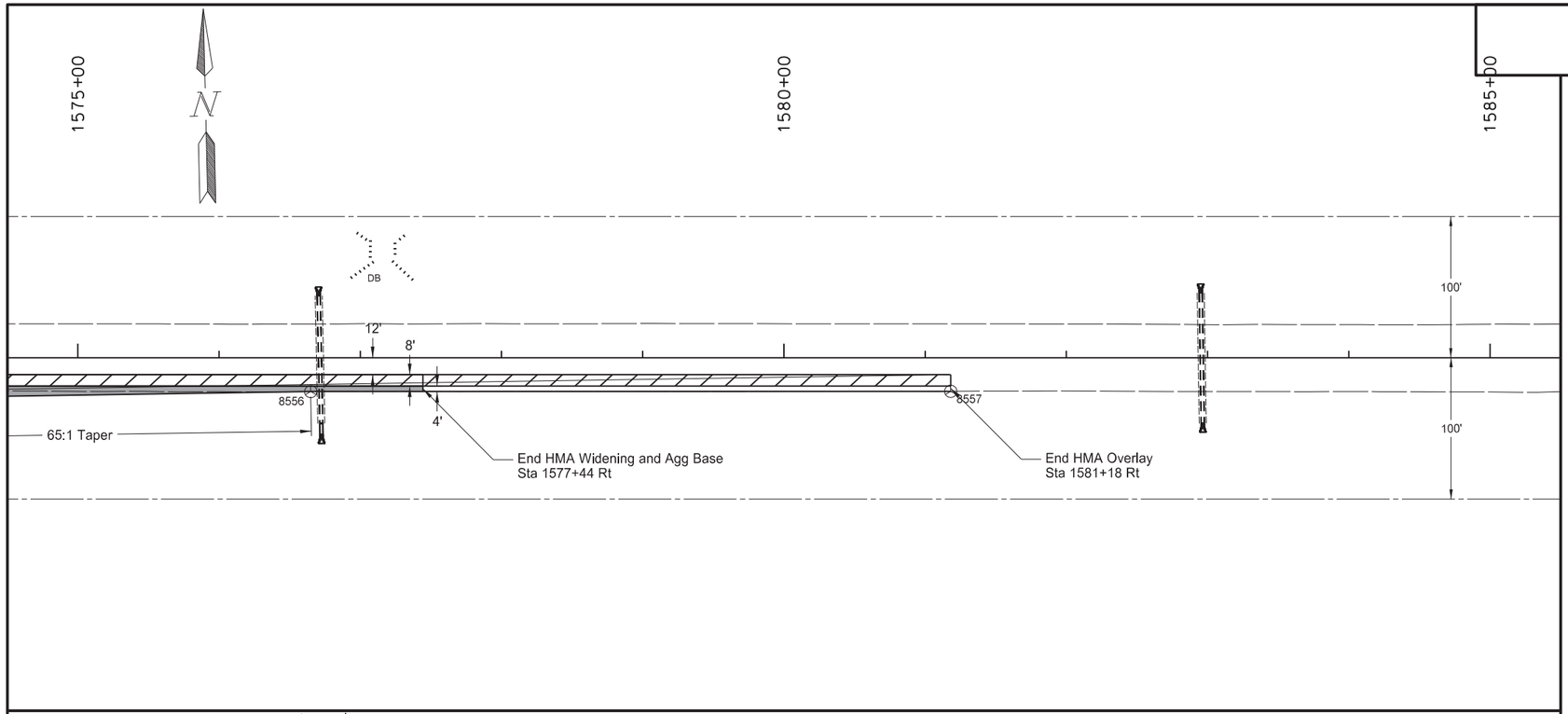
Survey Data

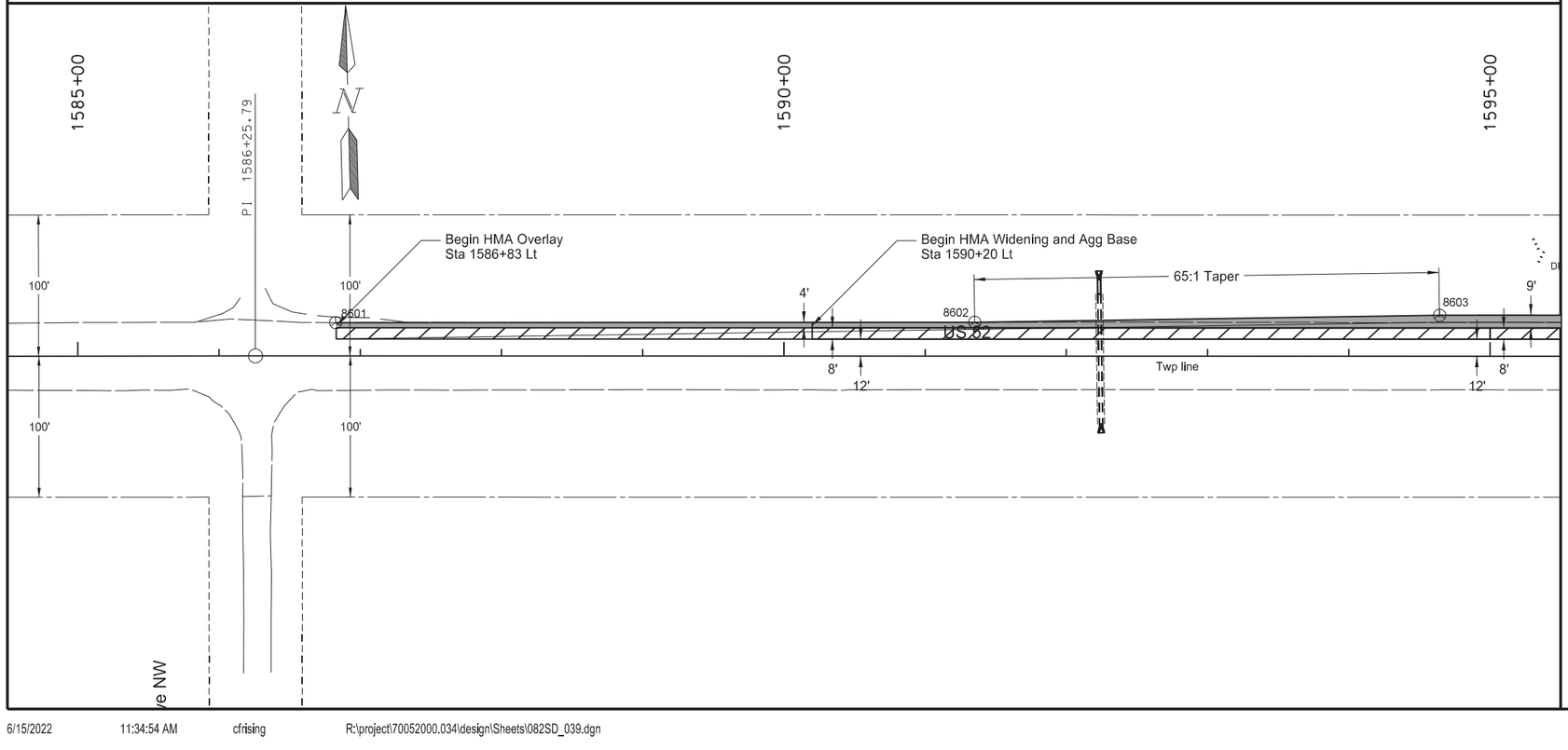
Passing Lane #6

Sta 1555+00 to Sta 1575+00

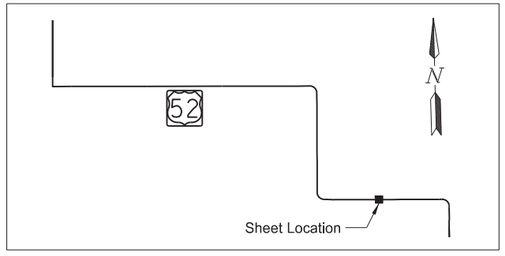
6/15/2022 11:34:53 AM cfrising R:\project\70052000.034\design\Sheets\082SD_038.dgn

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 39 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8556 | 663699.14 | 1564272.43 | 1576+64.92 | 23.96 |
| 8557 | 663688.54 | 1564725.48 | 1581+18.09 | 23.78 |
| 8601 | 663722.41 | 1565290.96 | 1586+82.59 | -23.60 |
| 8602 | 663711.47 | 1565743.36 | 1591+35.11 | -23.94 |
| 8603 | 663708.33 | 1566072.57 | 1594+64.30 | -29.00 |



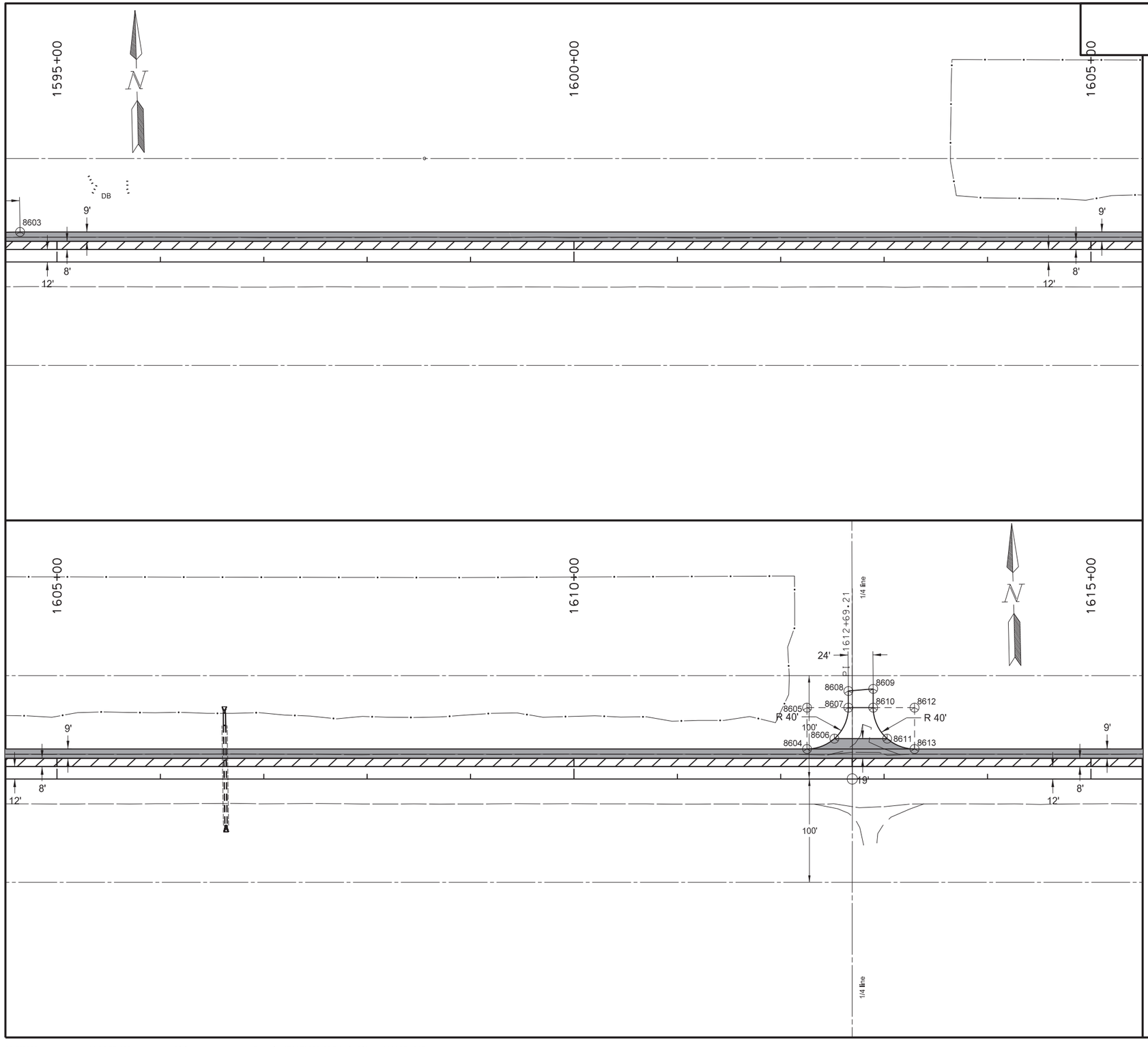

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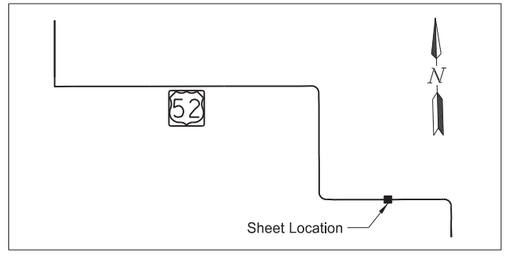
Passing Lane #6 & #7

Sta 1575+00 to Sta 1595+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 40 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8604 | 663664.43 | 1567833.16 | 1612+25.44 | -29.00 |
| 8605 | 663704.42 | 1567834.16 | 1612+25.44 | -69.00 |
| 8606 | 663673.77 | 1567859.86 | 1612+51.90 | -39.00 |
| 8607 | 663703.43 | 1567874.14 | 1612+65.44 | -69.00 |
| 8608 | 663719.51 | 1567874.55 | 1612+65.44 | -85.08 |
| 8609 | 663720.92 | 1567898.59 | 1612+89.44 | -87.10 |
| 8610 | 663702.83 | 1567898.14 | 1612+89.44 | -69.00 |
| 8611 | 663672.50 | 1567910.93 | 1613+02.98 | -39.00 |
| 8612 | 663701.83 | 1567938.12 | 1613+29.44 | -69.00 |
| 8613 | 663661.84 | 1567937.13 | 1613+29.44 | -29.00 |



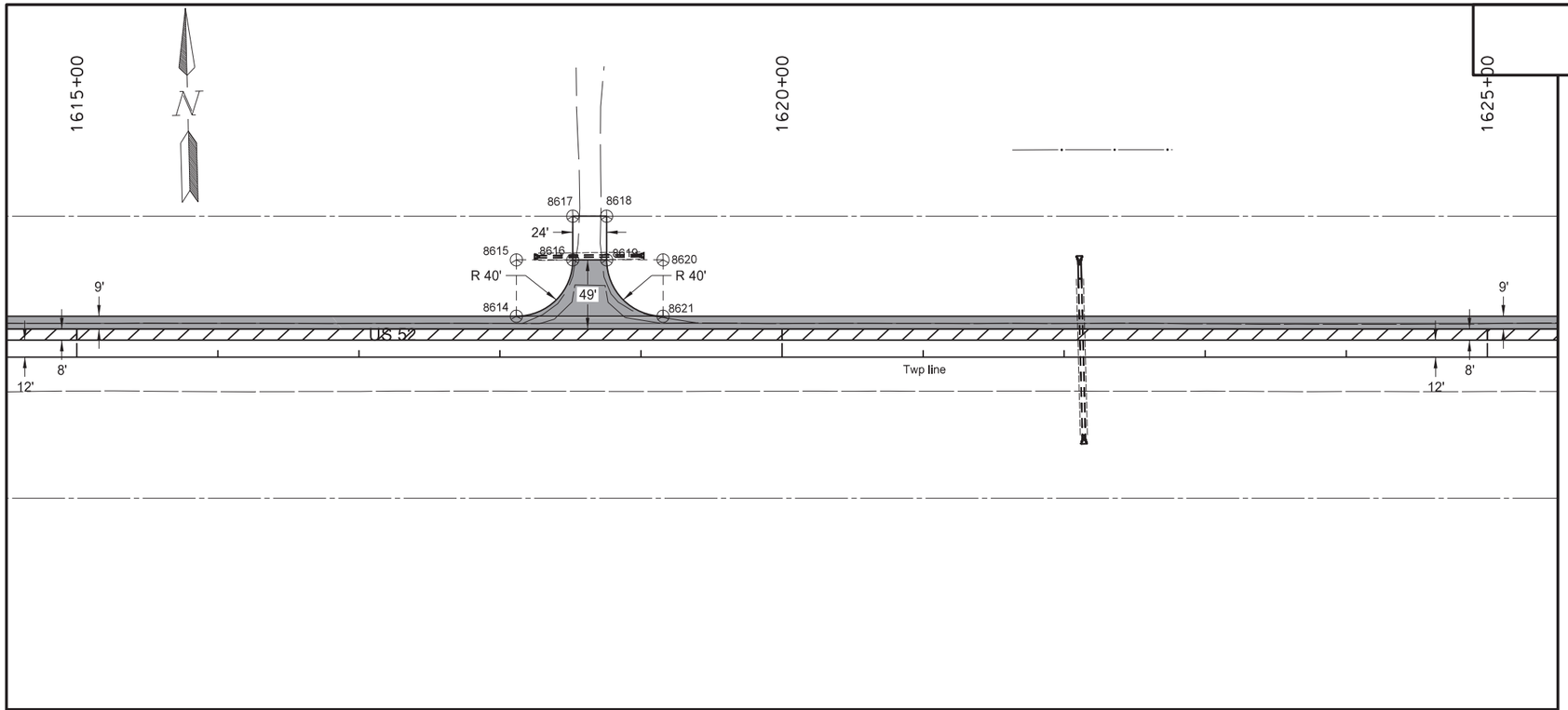

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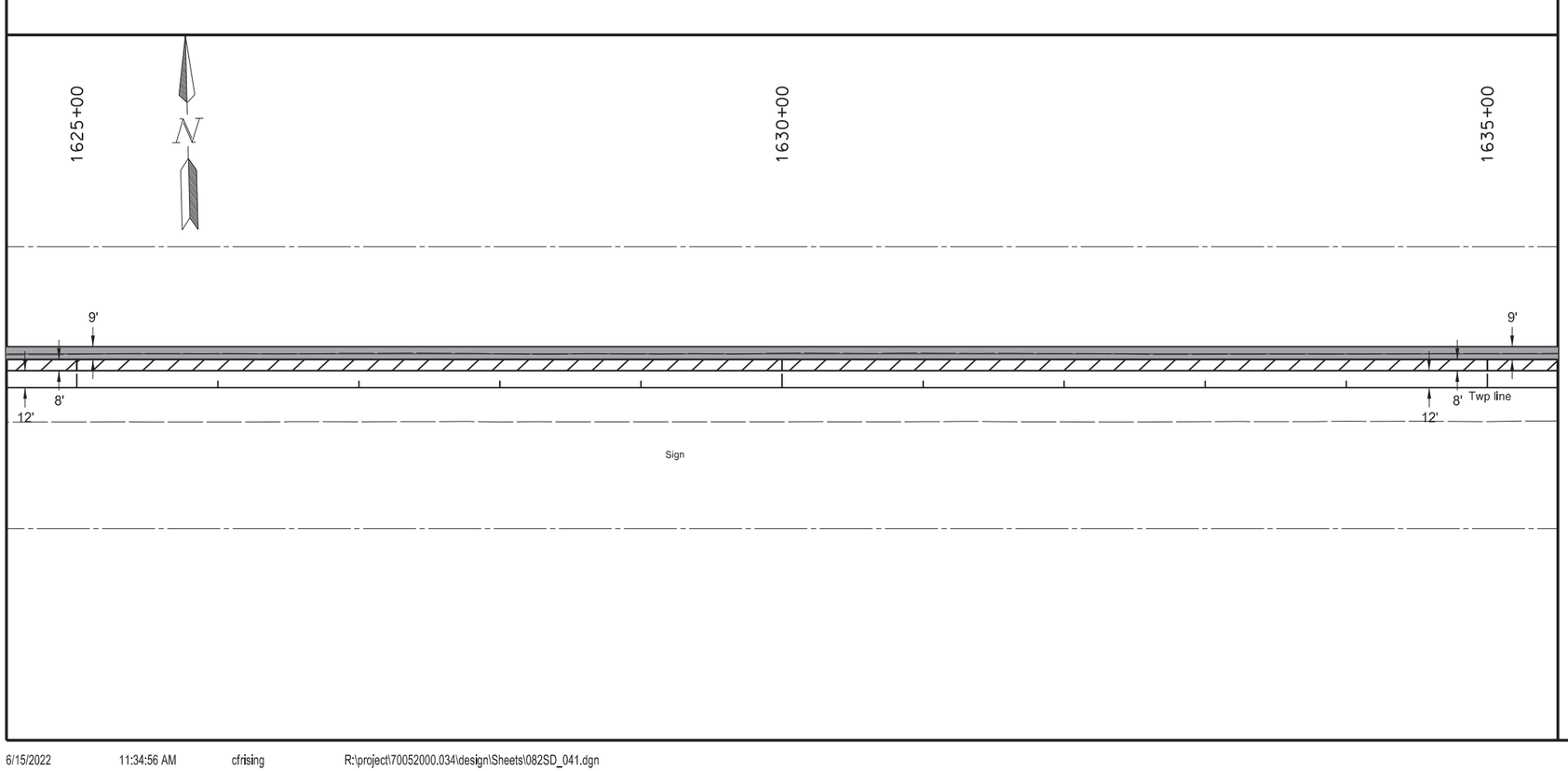
Survey Data

Passing Lane #7

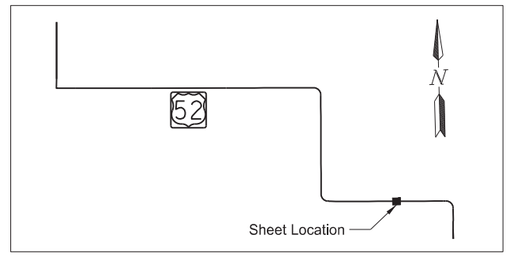
Sta 1595+00 to Sta 1615+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 41 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8614 | 663649.82 | 1568419.17 | 1618+11.63 | -29.00 |
| 8615 | 663689.80 | 1568420.16 | 1618+11.63 | -69.00 |
| 8616 | 663688.81 | 1568460.15 | 1618+51.63 | -69.00 |
| 8617 | 663719.80 | 1568460.92 | 1618+51.63 | -100.00 |
| 8618 | 663719.20 | 1568484.92 | 1618+75.63 | -100.00 |
| 8619 | 663688.21 | 1568484.14 | 1618+75.63 | -69.00 |
| 8620 | 663687.21 | 1568524.13 | 1619+15.63 | -69.00 |
| 8621 | 663647.22 | 1568523.13 | 1619+15.63 | -29.00 |



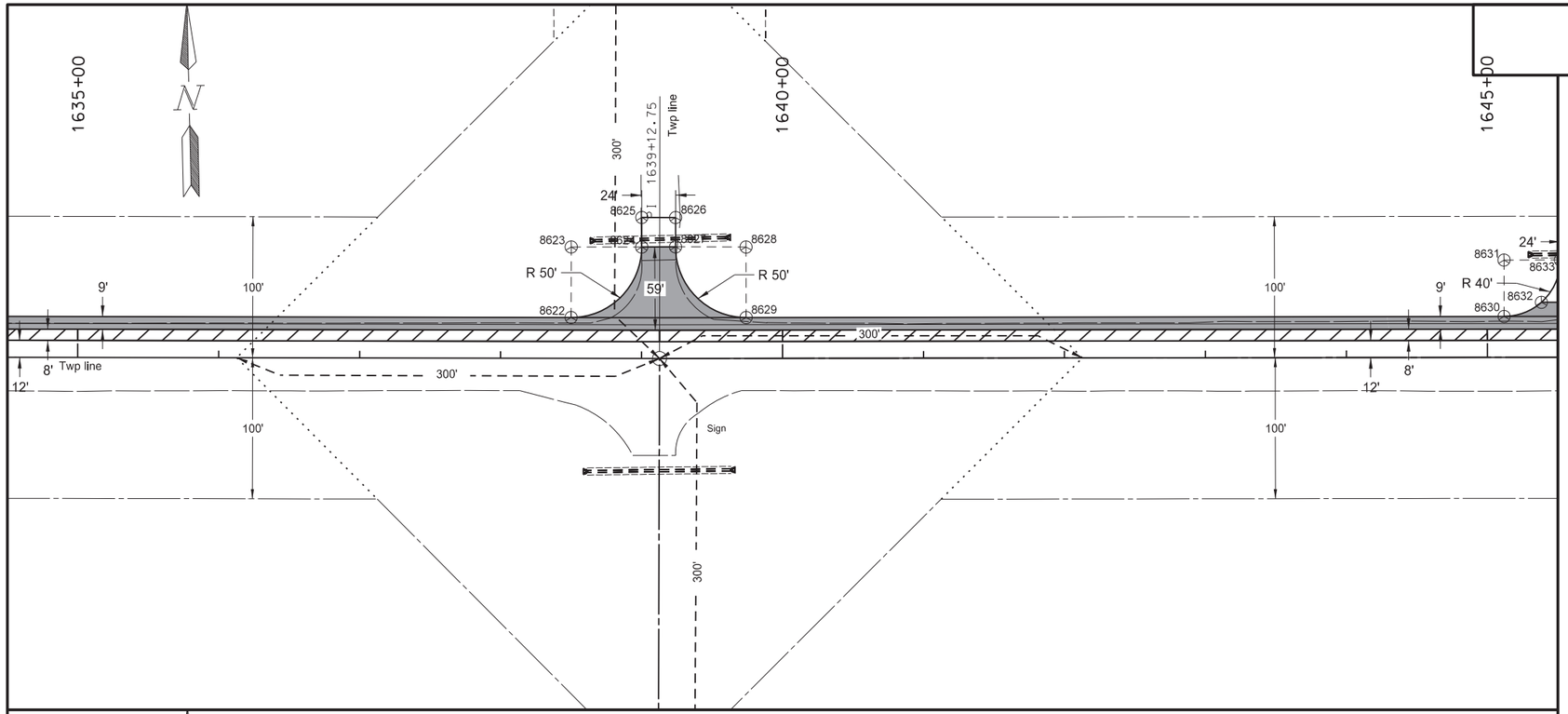

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NORTH DAKOTA
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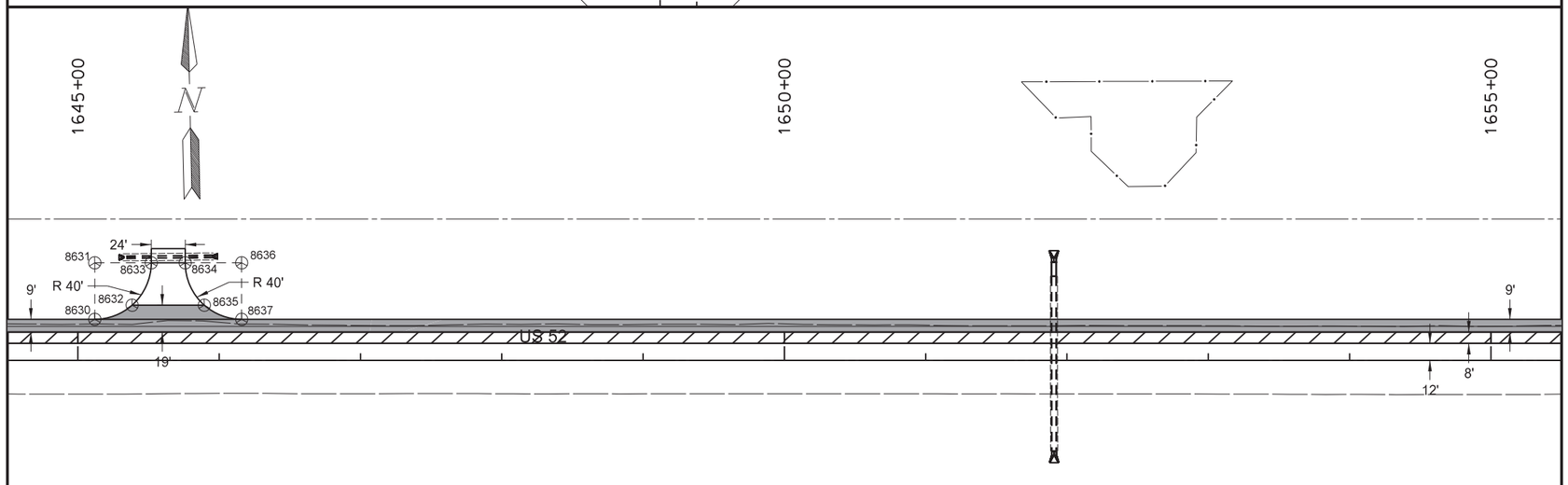
Survey Data

Passing Lane #7

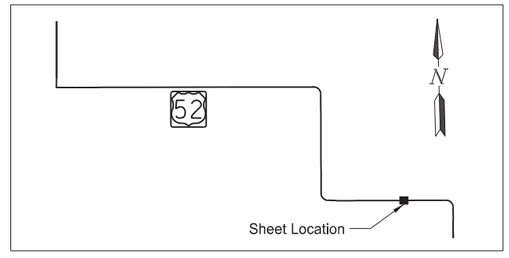
Sta 1615+00 to Sta 1635+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 42 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8622 | 663598.99 | 1570456.86 | 1638+49.95 | -29.00 |
| 8623 | 663648.97 | 1570458.11 | 1638+49.95 | -79.00 |
| 8624 | 663647.72 | 1570508.09 | 1638+99.95 | -79.00 |
| 8625 | 663668.72 | 1570508.61 | 1638+99.95 | -100.00 |
| 8626 | 663668.12 | 1570532.61 | 1639+24.29 | -99.96 |
| 8627 | 663647.33 | 1570532.09 | 1639+24.22 | -79.17 |
| 8628 | 663646.08 | 1570582.07 | 1639+74.22 | -79.00 |
| 8629 | 663596.09 | 1570580.99 | 1639+74.22 | -29.00 |
| 8630 | 663584.48 | 1571118.58 | 1645+11.93 | -29.00 |
| 8631 | 663624.48 | 1571119.45 | 1645+11.93 | -69.00 |
| 8632 | 663593.91 | 1571145.25 | 1645+38.39 | -39.00 |
| 8633 | 663623.61 | 1571159.44 | 1645+51.93 | -69.00 |
| 8634 | 663623.09 | 1571183.43 | 1645+75.93 | -69.00 |
| 8635 | 663592.81 | 1571196.32 | 1645+89.48 | -39.00 |
| 8636 | 663622.23 | 1571223.42 | 1646+15.93 | -69.00 |
| 8637 | 663582.24 | 1571222.56 | 1646+15.93 | -29.00 |




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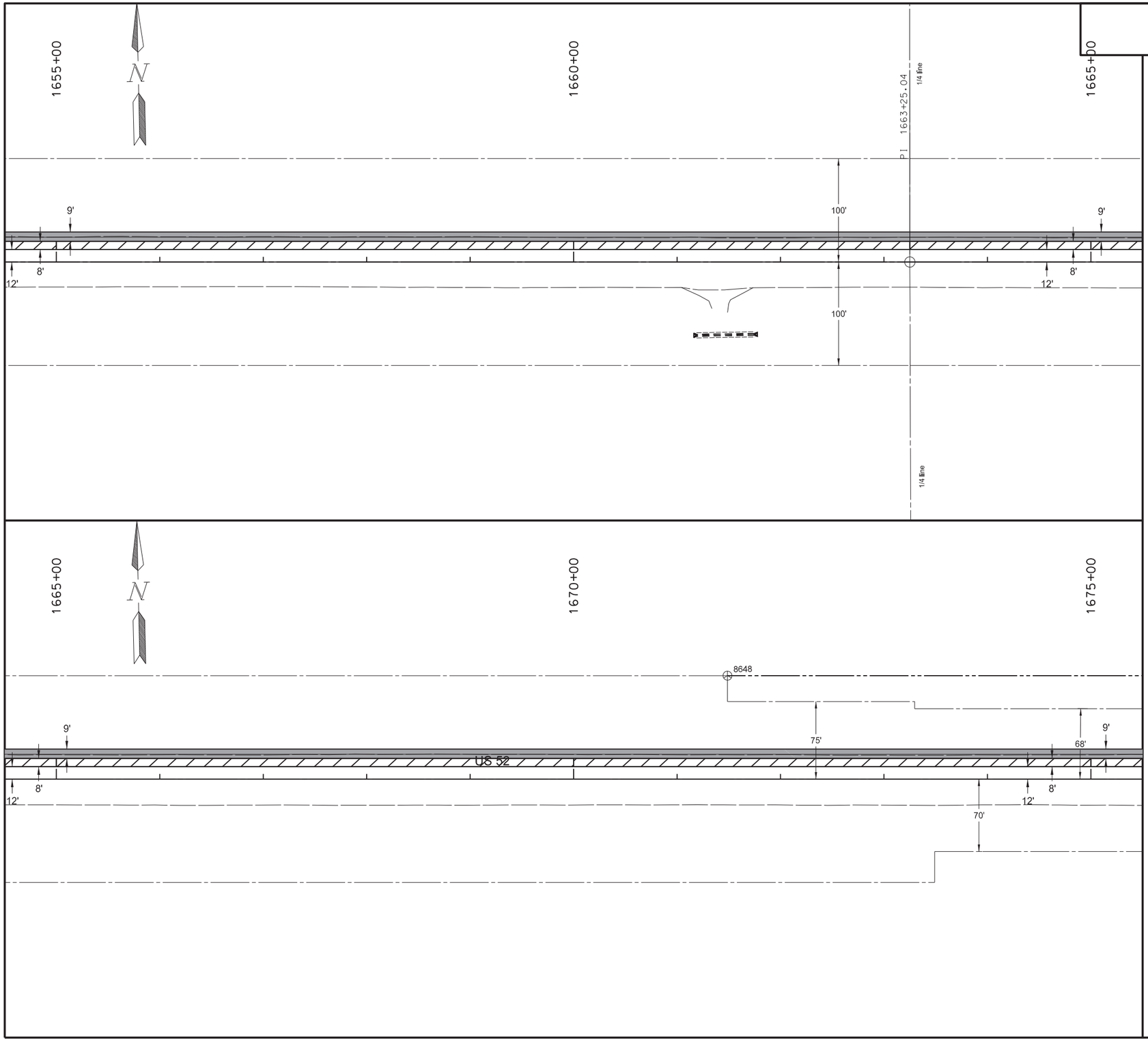
09/01/23

Survey Data

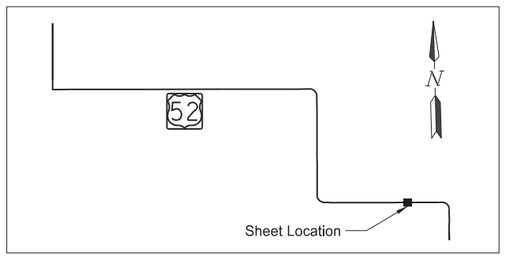
Passing Lane #7

Sta 1635+00 to Sta 1655+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 43 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8648 | 663598.56 | 1573756.30 | 1671+48.74 | -100.00 |



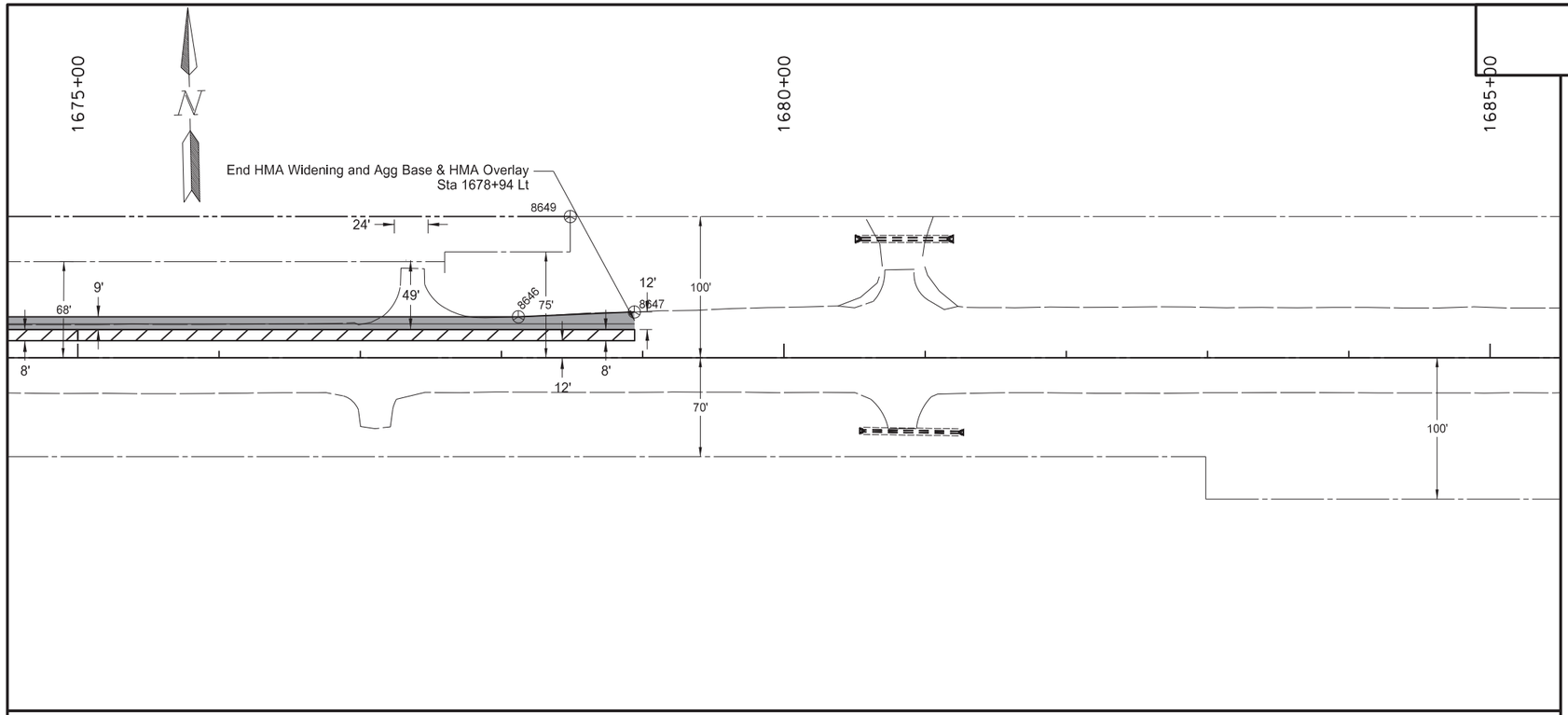

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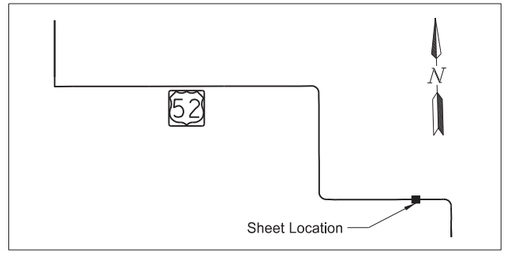
Passing Lane #7

Sta 1655+00 to Sta 1675+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 44 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8646 | 663513.28 | 1574417.82 | 1678+11.94 | -29.00 |
| 8647 | 663514.95 | 1574500.02 | 1678+94.08 | -32.44 |
| 8649 | 663583.47 | 1574456.14 | 1678+48.74 | -100.00 |



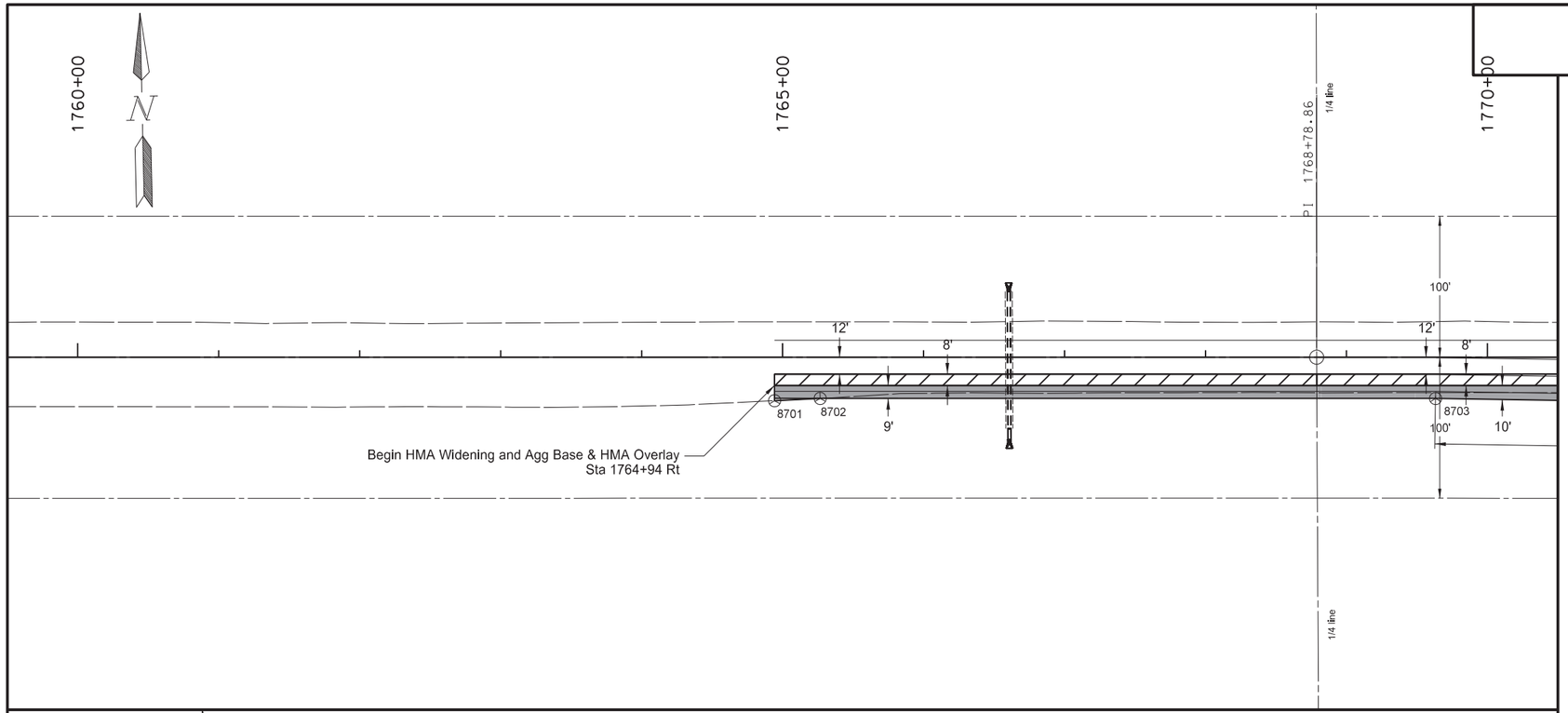

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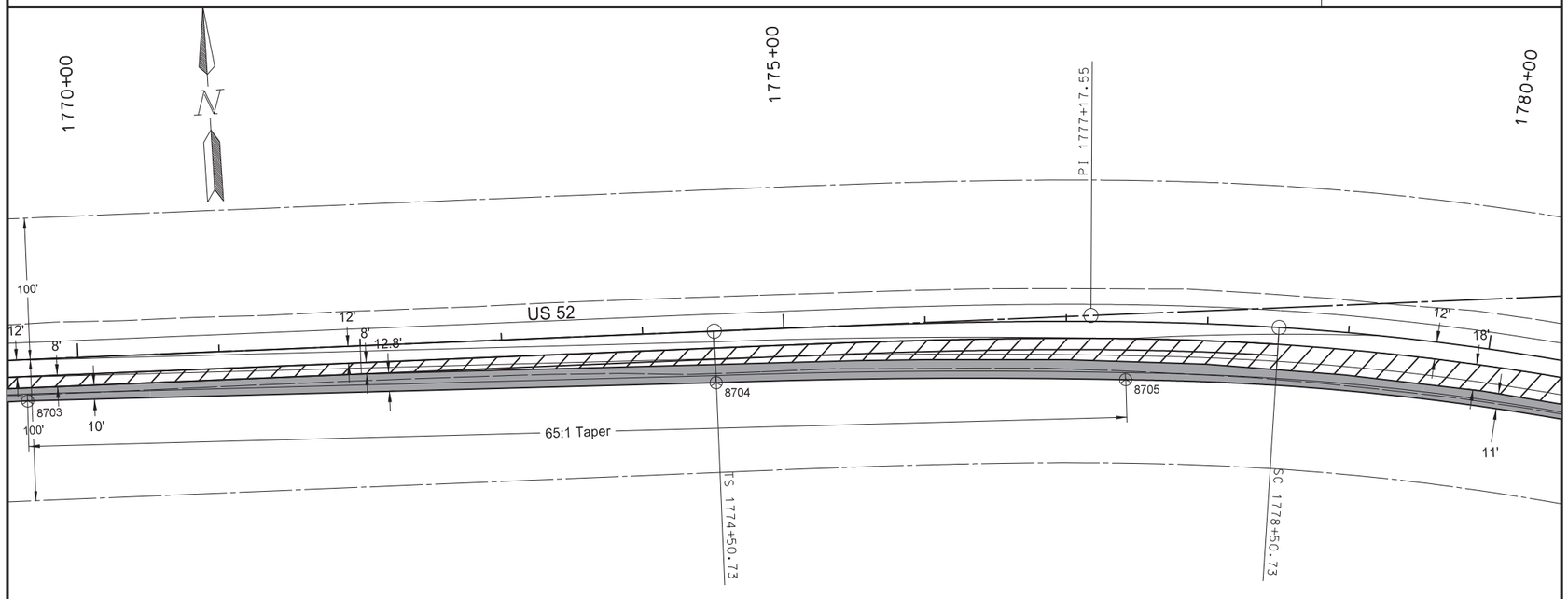
Survey Data

Passing Lane #7

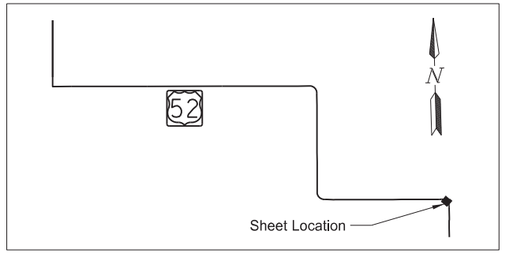
Sta 1675+00 to Sta 1695+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 45 |




| PoInt | North | East | StatIon | Offset |
|---|---|---|---|---|
| 8701 | 663269.07 | 1583096.87 | 1764+94.28 | 30.82 |
| 8702 | 663269.94 | 1583129.26 | 1765+26.64 | 29.21 |
| 8703 | 663259.92 | 1583565.71 | 1769+63.20 | 29.28 |
| 8704 | 663241.53 | 1584052.75 | 1774+50.55 | 36.50 |
| 8705 | 663225.03 | 1584342.09 | 1777+42.51 | 41.00 |



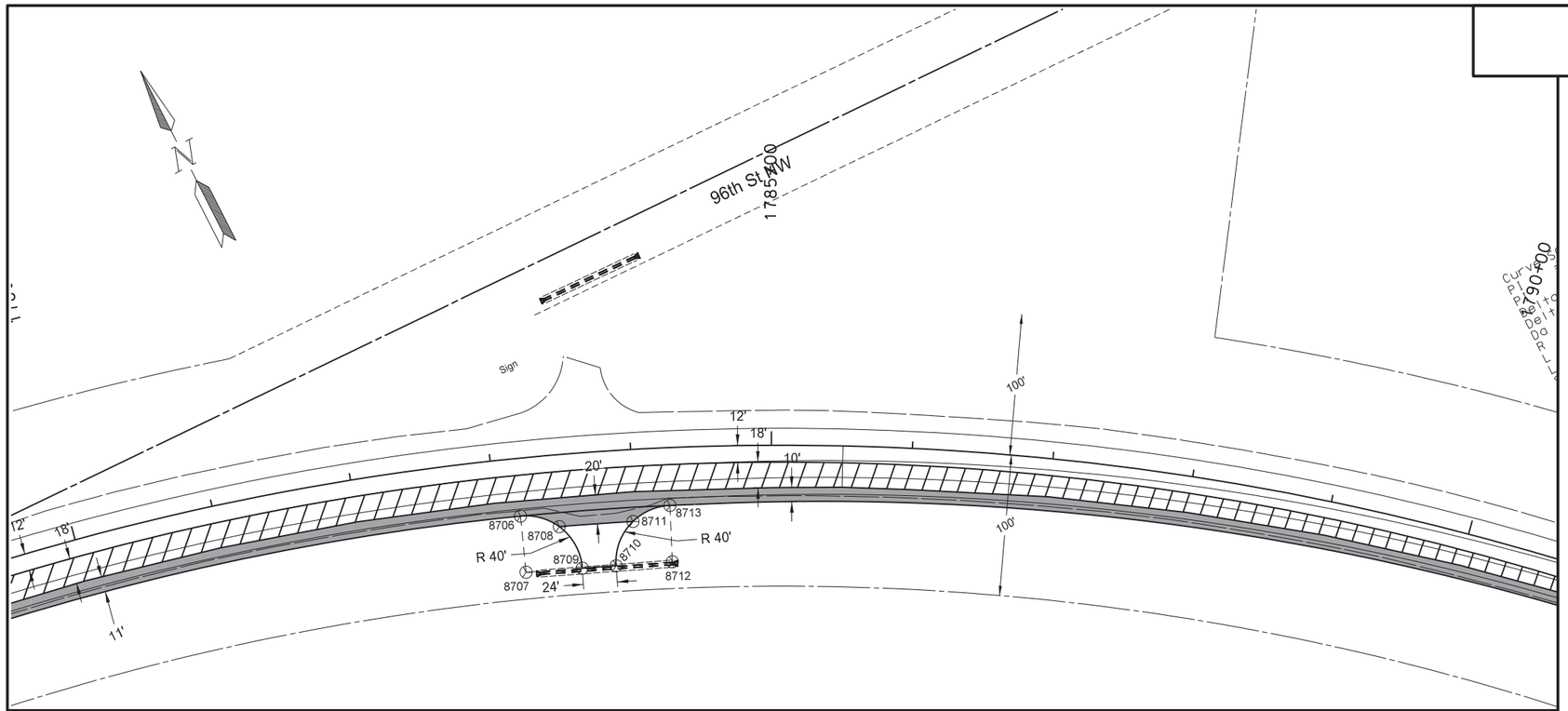

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ENGINEER
NORTH DAKOTA
09/01/23

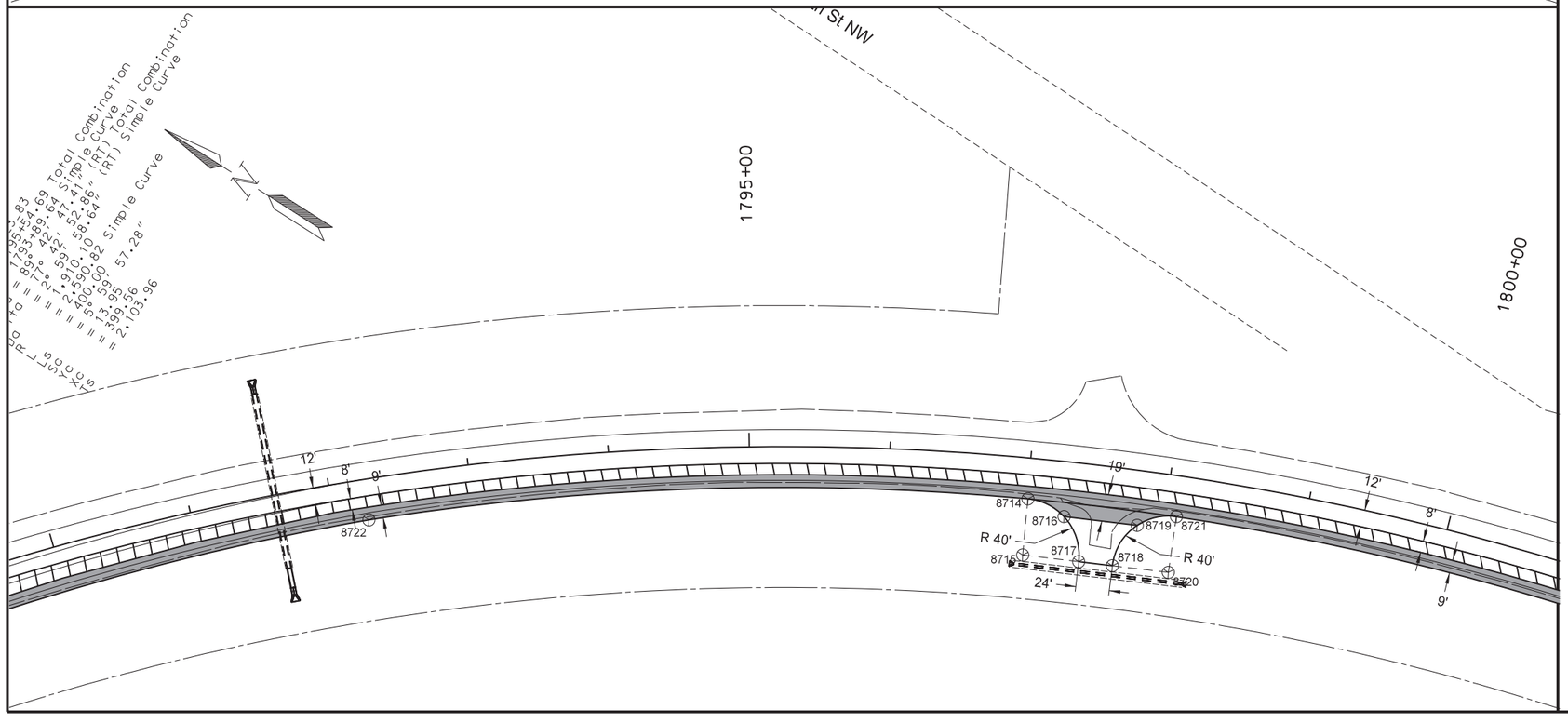
Survey Data

Passing Lane #8

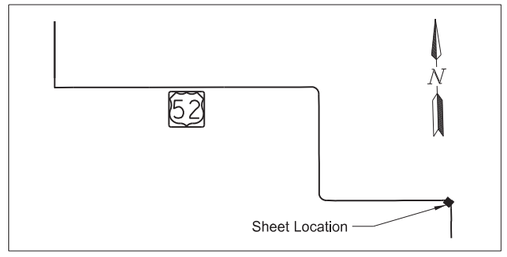
Sta 1760+00 to Sta 1780+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 46 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8706 | 663101.58 | 1584889.20 | 1783+17.54 | 41.00 |
| 8707 | 663064.32 | 1584874.66 | 1783+17.54 | 81.00 |
| 8708 | 663082.39 | 1584910.34 | 1783+44.95 | 51.00 |
| 8709 | 663048.73 | 1584911.50 | 1783+59.32 | 81.69 |
| 8710 | 663039.36 | 1584933.59 | 1783+84.39 | 81.70 |
| 8711 | 663061.97 | 1584958.57 | 1783+98.76 | 51.00 |
| 8712 | 663023.77 | 1584970.43 | 1784+26.16 | 81.00 |
| 8713 | 663060.15 | 1584987.07 | 1784+26.16 | 41.00 |
| 8714 | 662220.02 | 1585882.91 | 1797+00.70 | 29.02 |
| 8715 | 662201.78 | 1585847.31 | 1797+00.66 | 69.02 |
| 8716 | 662191.67 | 1585886.02 | 1797+27.90 | 39.02 |
| 8717 | 662165.74 | 1585864.67 | 1797+42.16 | 69.61 |
| 8718 | 662144.09 | 1585875.02 | 1797+67.07 | 69.62 |
| 8719 | 662144.59 | 1585908.65 | 1797+81.23 | 38.93 |
| 8720 | 662108.05 | 1585892.38 | 1798+08.57 | 68.83 |
| 8721 | 662124.45 | 1585928.86 | 1798+08.39 | 28.83 |
| 8722 | 662606.30 | 1585619.07 | 1792+24.47 | 29.00 |



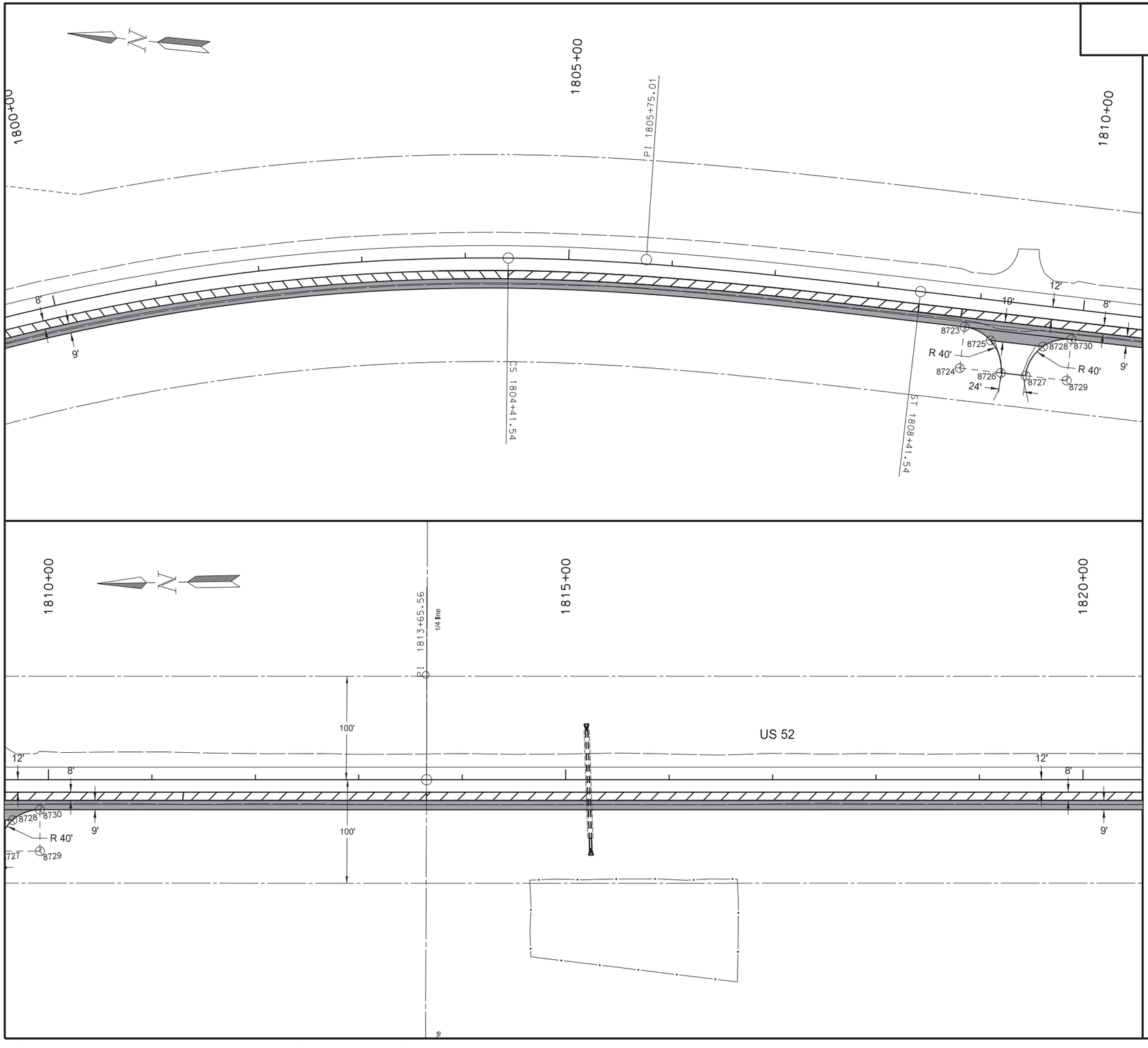

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Survey Data

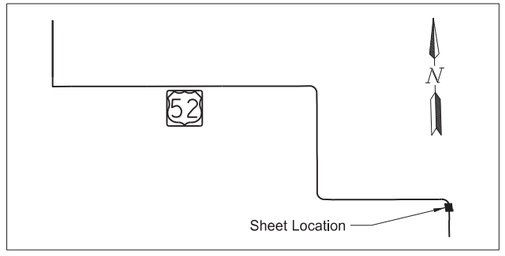
Passing Lane #8

Sta 1780+00 to Sta 1800+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 47 |




| Point | North | East | Station | Offset |
|---|---|---|---|---|
| 8723 | 661080.44 | 1586089.63 | 1808+87.77 | 29.00 |
| 8724 | 661081.16 | 1586049.64 | 1808+87.77 | 69.00 |
| 8725 | 661054.16 | 1586079.16 | 1809+14.23 | 39.00 |
| 8726 | 661041.16 | 1586048.92 | 1809+27.77 | 69.00 |
| 8727 | 661017.17 | 1586048.49 | 1809+51.77 | 69.00 |
| 8728 | 661003.09 | 1586078.24 | 1809+65.32 | 39.00 |
| 8729 | 660977.17 | 1586047.77 | 1809+91.77 | 69.00 |
| 8730 | 660976.45 | 1586087.77 | 1809+91.77 | 29.00 |




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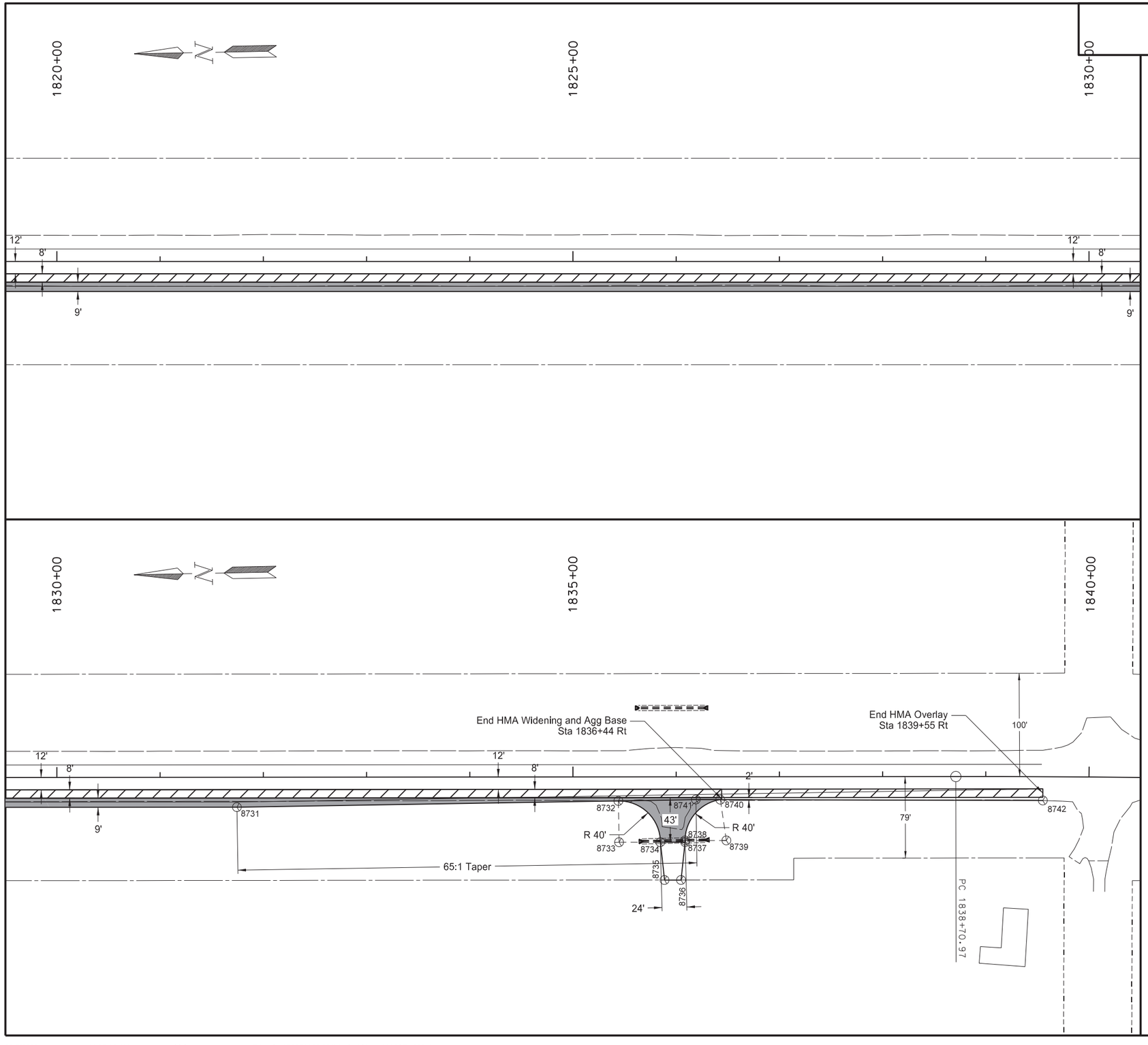
Survey Data

Passing Lane #8

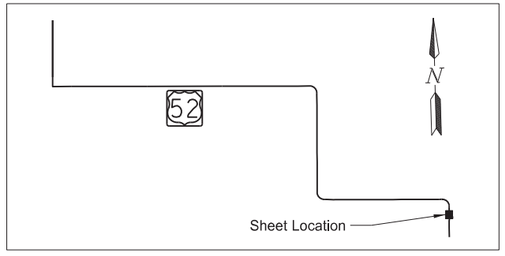
Sta 1800+00 to Sta 1820+00

6/15/2022 11:35:00 AM cfrising R:\project\70052000.034\design\Sheets\082SD_047.dgn

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 82 | 48 |




| PoInt | North | East | StatIon | Offset |
|---|---|---|---|---|
| 8731 | 658794.24 | 1586048.72 | 1831+74.34 | 29.00 |
| 8732 | 658424.57 | 1586047.80 | 1835+43.97 | 23.31 |
| 8733 | 658424.67 | 1586007.80 | 1835+44.58 | 63.31 |
| 8734 | 658384.67 | 1586007.08 | 1835+84.58 | 63.31 |
| 8735 | 658381.33 | 1585970.32 | 1835+88.58 | 100.00 |
| 8736 | 658365.33 | 1585970.04 | 1836+04.58 | 100.00 |
| 8737 | 658360.68 | 1586006.65 | 1836+08.58 | 63.31 |
| 8738 | 658360.65 | 1586008.25 | 1836+08.58 | 61.71 |
| 8739 | 658320.65 | 1586007.54 | 1836+48.58 | 61.71 |
| 8740 | 658325.84 | 1586047.20 | 1836+42.69 | 22.14 |
| 8741 | 658349.50 | 1586047.71 | 1836+19.03 | 22.06 |
| 8742 | 658013.36 | 1586040.45 | 1839+55.38 | 23.06 |



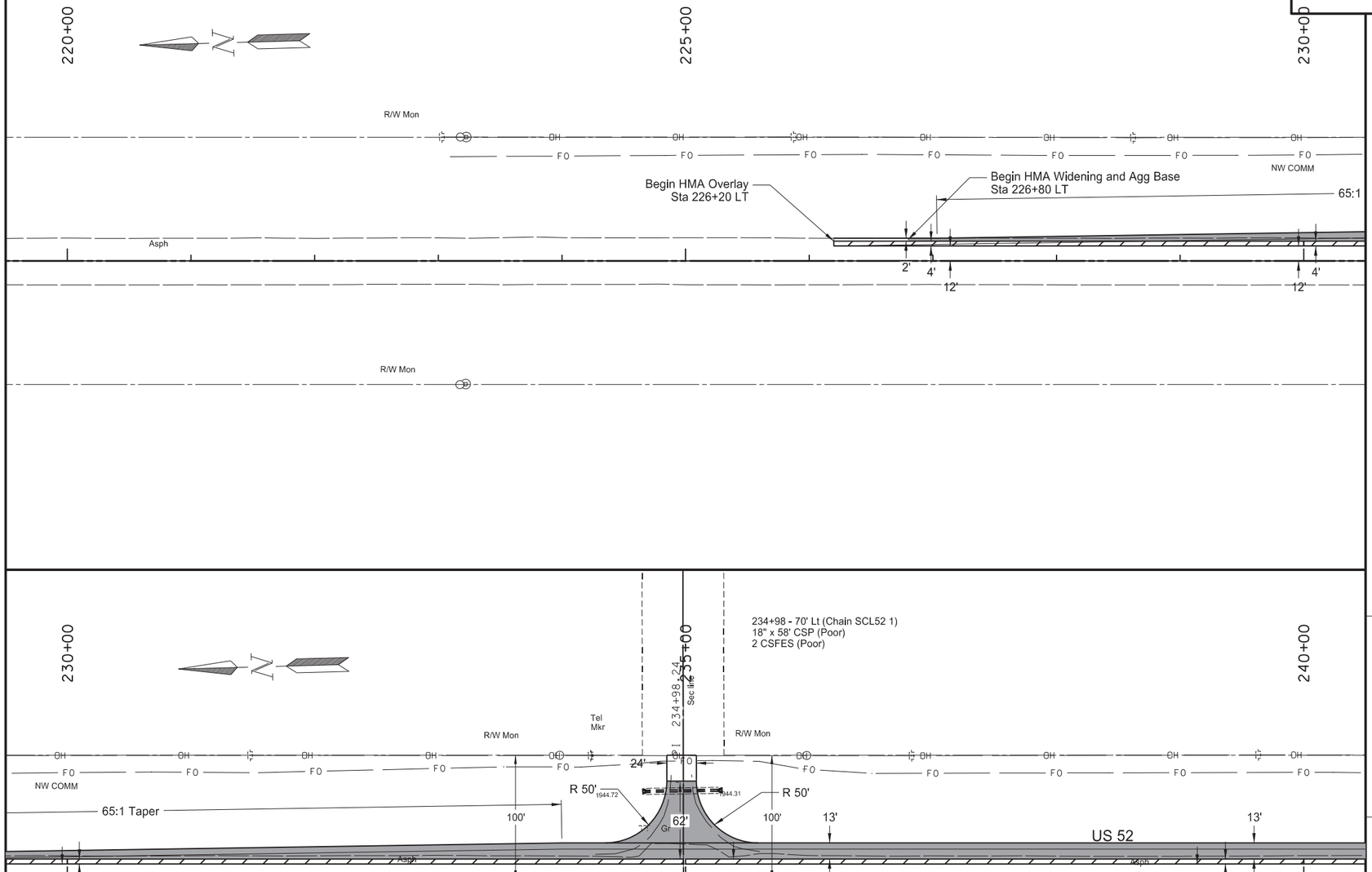

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Passing Lane #8

Sta 1820+00 to Sta 1840+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 1 |

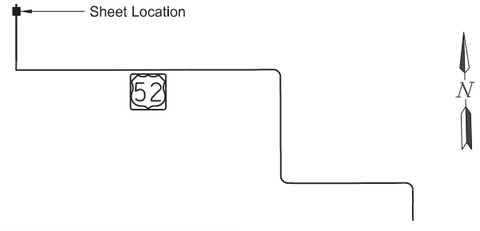



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 226+80 to 240+00 LT | 3046 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 226+20 to 240+00 LT - Two Applications | 245 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 226+20 to 240+00 LT | 623 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 226+20 to 240+00 LT | 924 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 226+20 to 240+00 LT | 55.4 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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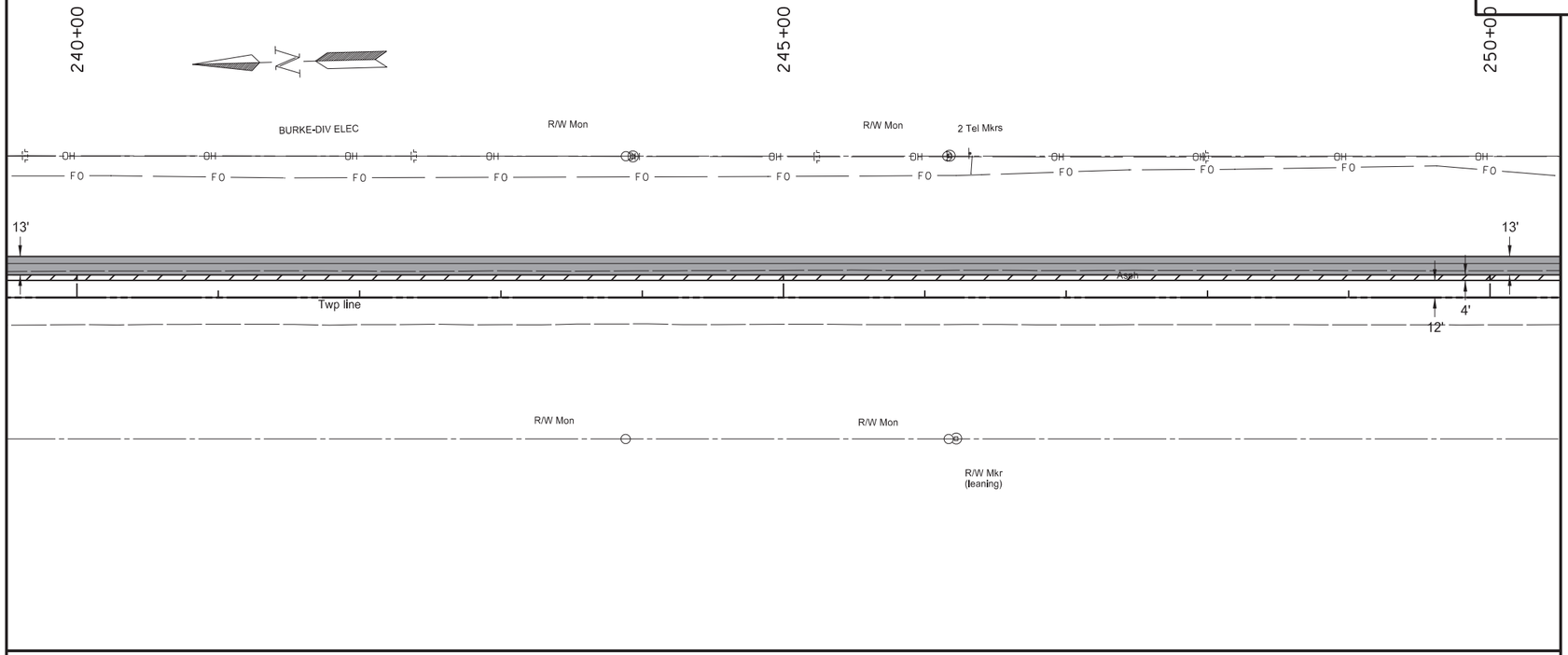
Paving

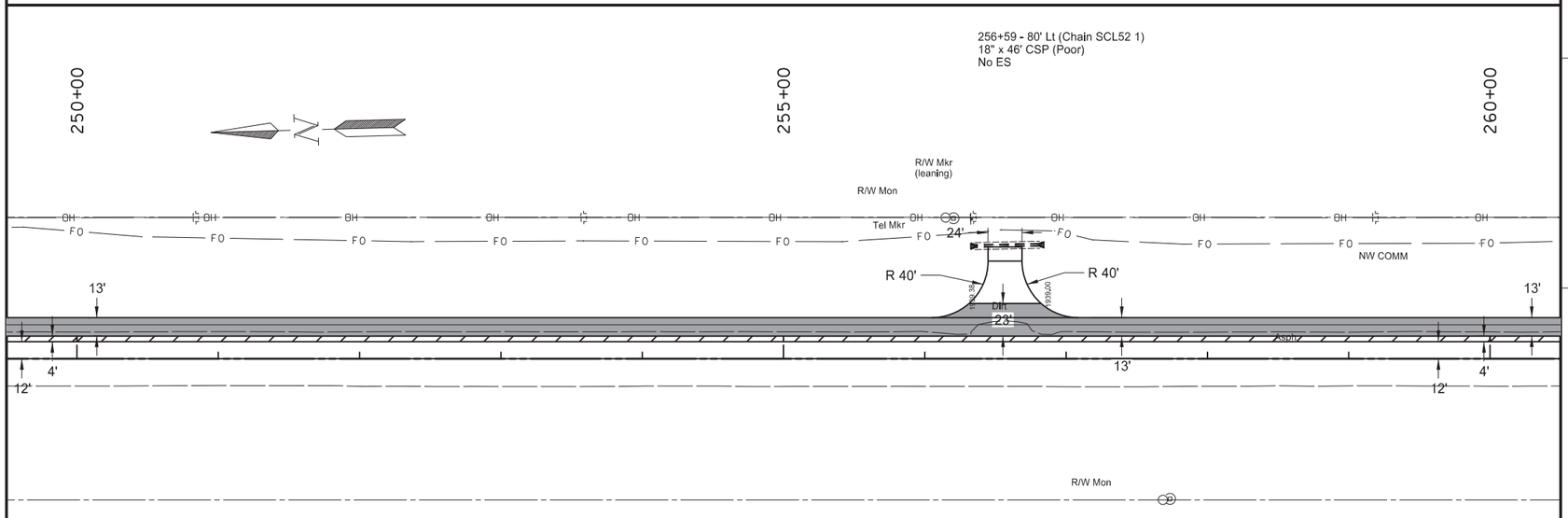
Passing Lane #1

Sta 220+00 to Sta 240+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 2 |



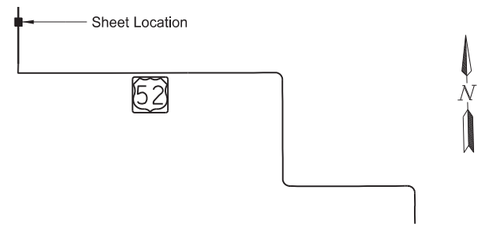




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 240+00 to 260+00 LT | 4615 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 240+00 to 260+00 LT - Two Applications | 372 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 240+00 to 260+00 LT | 944 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 240+00 to 260+00 LT | 1395 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 240+00 to 260+00 LT | 83.7 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



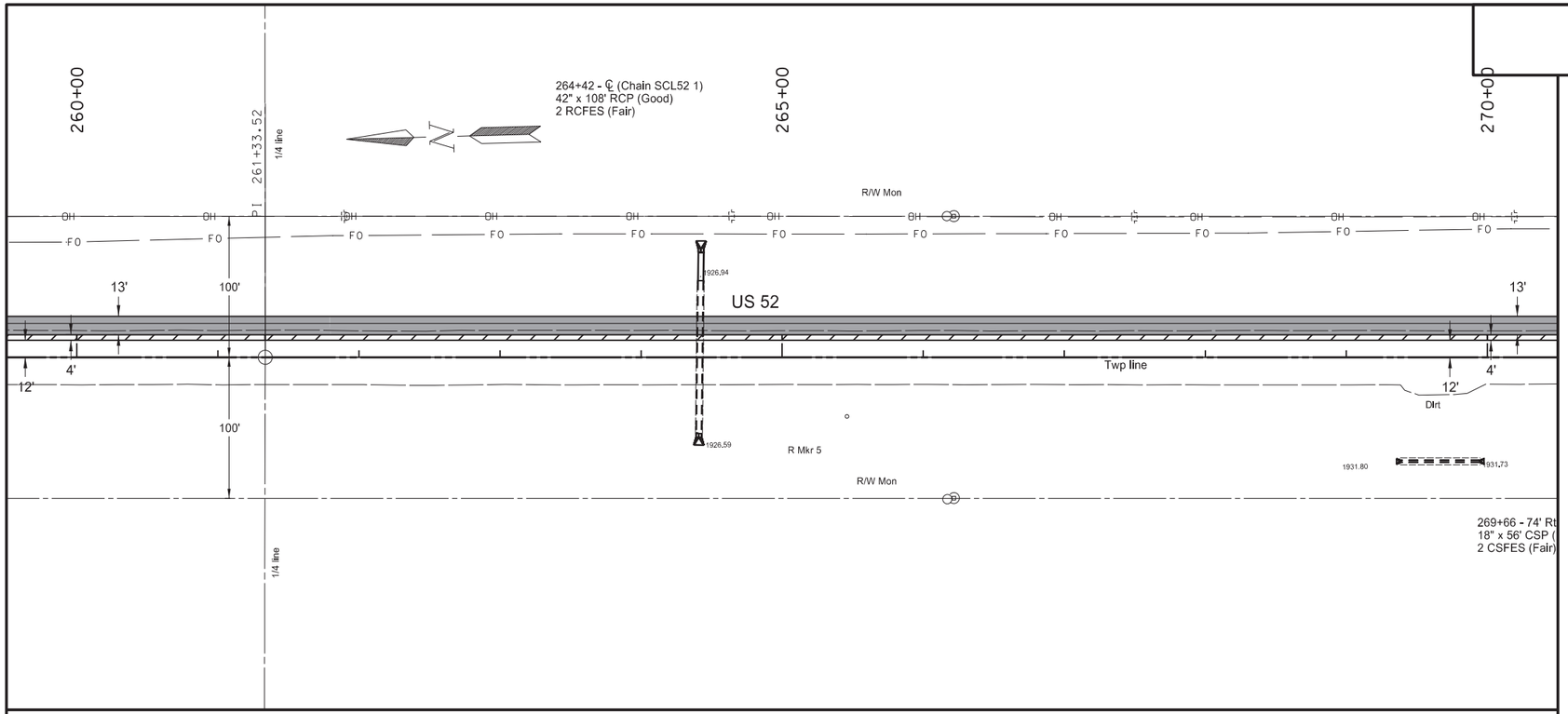

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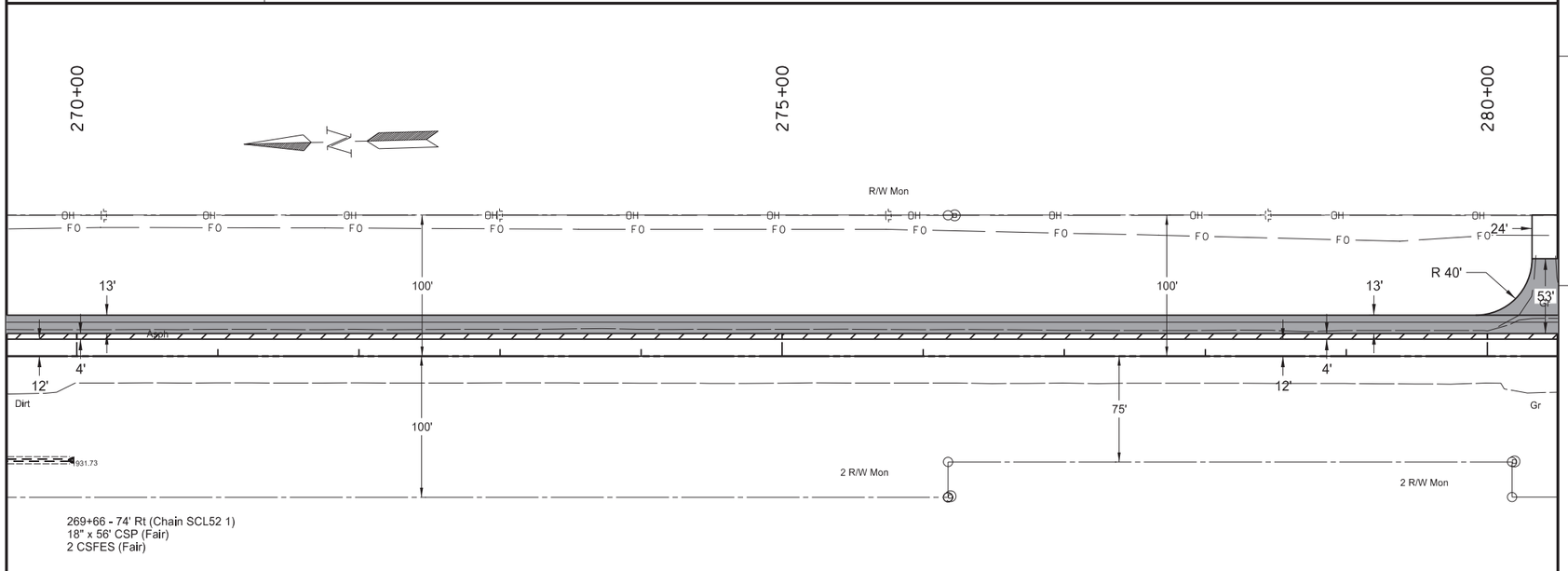
Paving

Passing Lane #1

Sta 240+00 to Sta 260+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 3 |



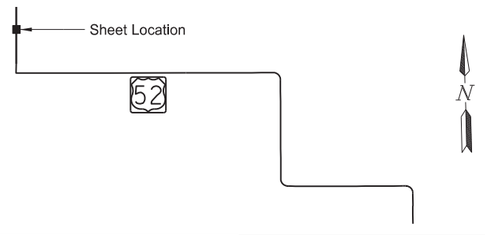




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 260+00 to 280+00 LT | 4615 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 260+00 to 280+00 LT - Two Applications | 372 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 260+00 to 280+00 LT | 944 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 260+00 to 280+00 LT | 1395 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 260+00 to 280+00 LT | 83.7 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



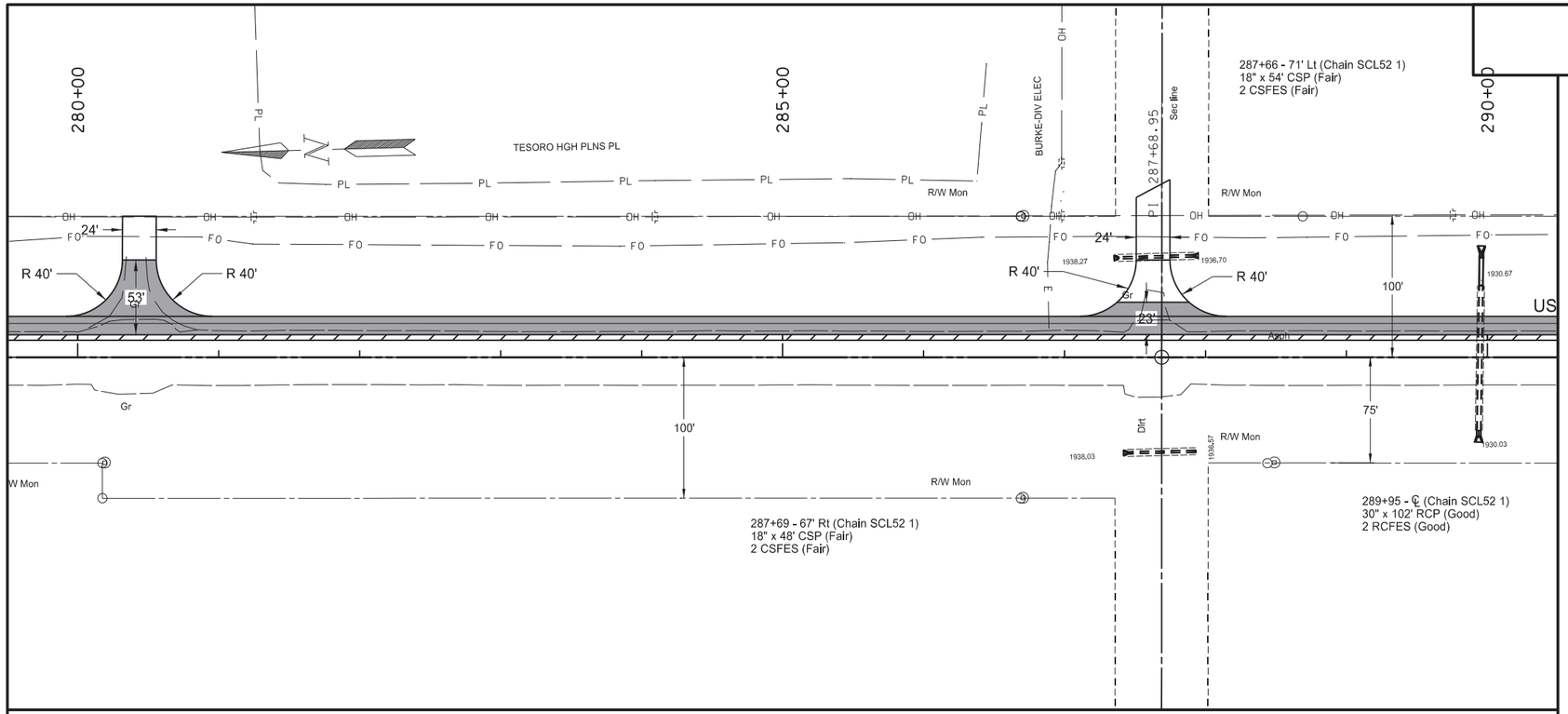

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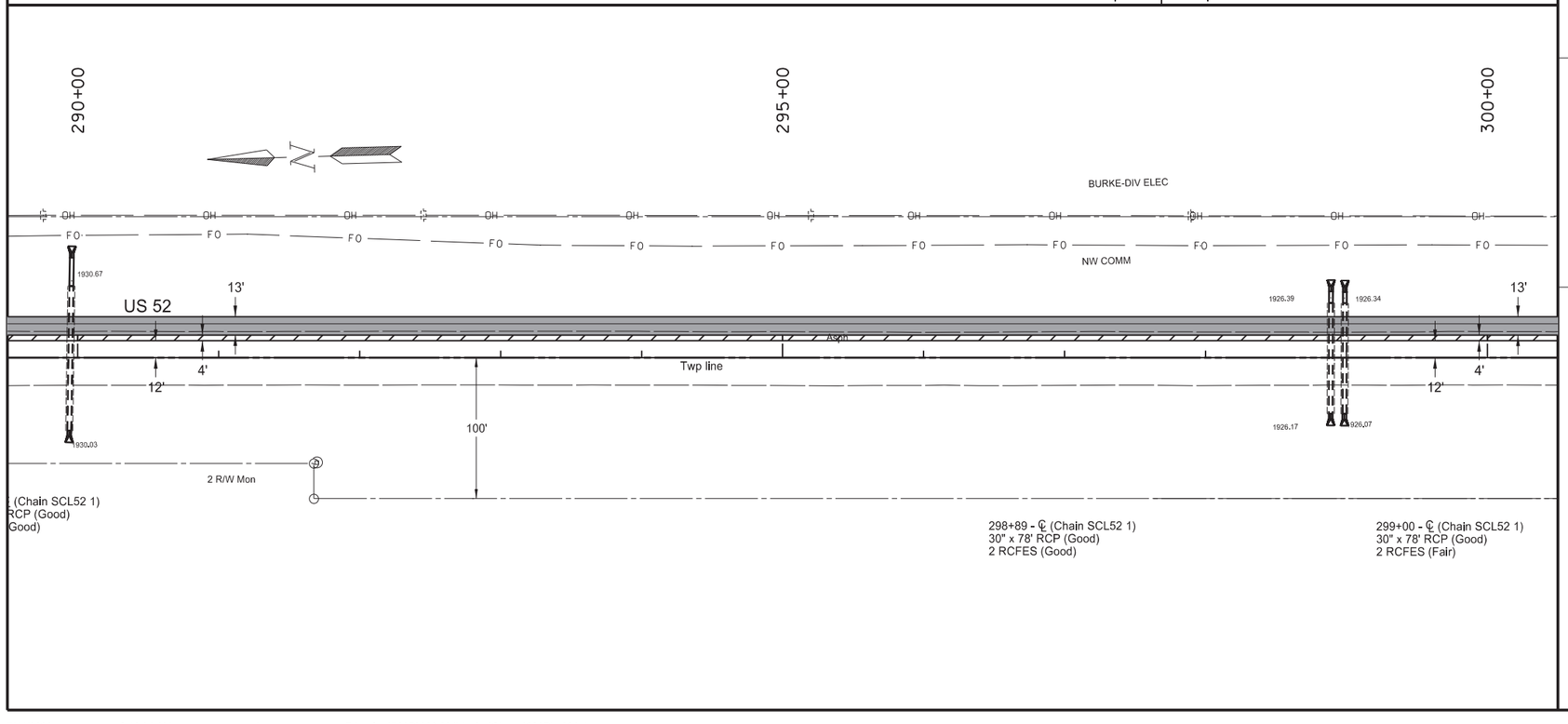
Paving

Passing Lane #1

Sta 260+00 to Sta 280+00

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|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 4 |



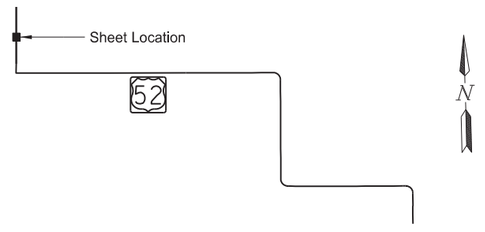




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 280+00 to 300+00 LT | 4615 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 280+00 to 300+00 LT - Two Applications | 372 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 280+00 to 300+00 LT | 944 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 280+00 to 300+00 LT | 1395 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 280+00 to 300+00 LT | 83.7 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



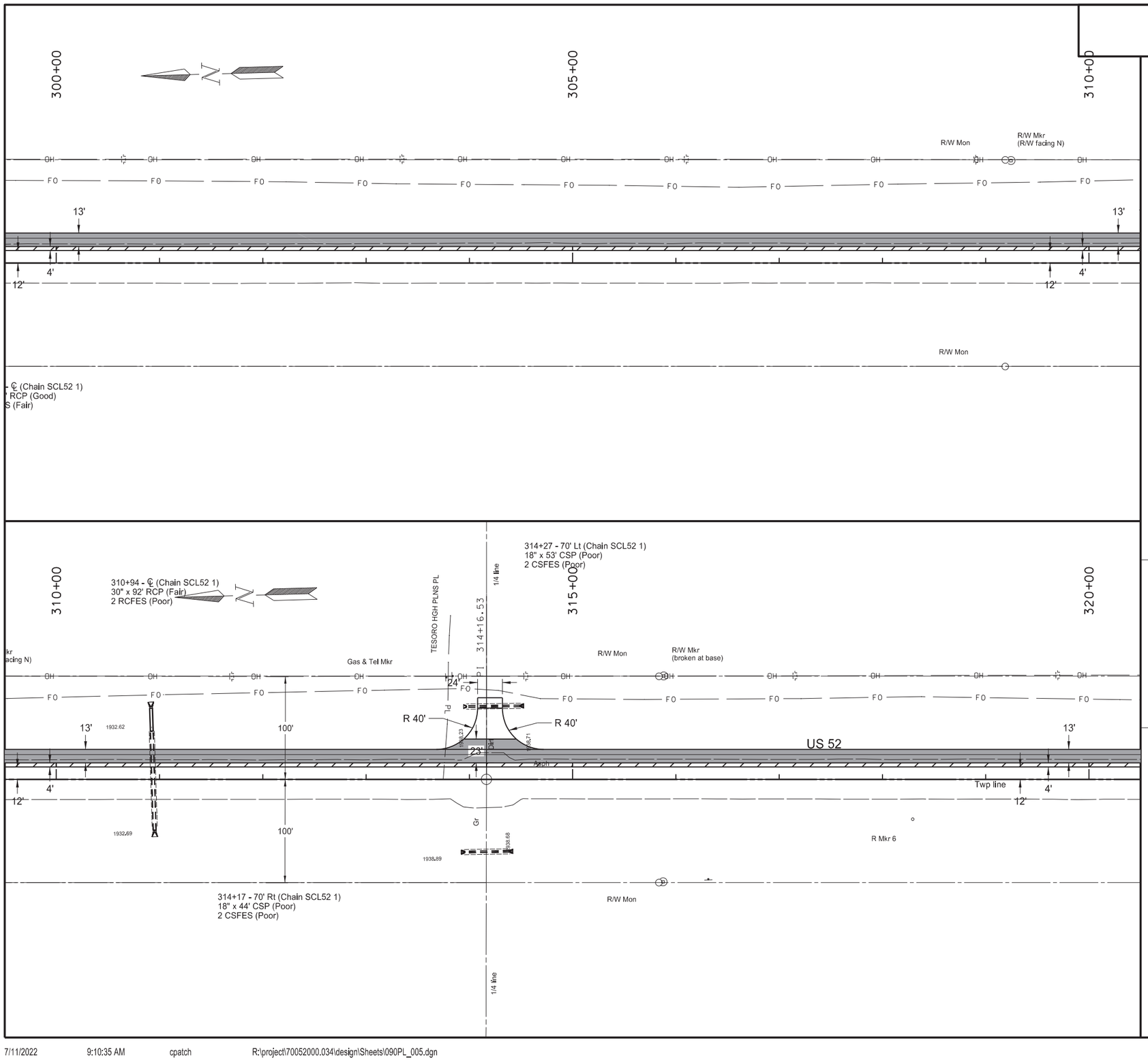

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Paving

Passing Lane #1

Sta 280+00 to Sta 300+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
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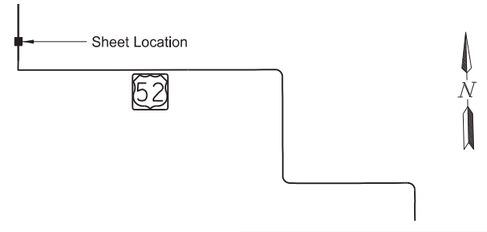



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 300+00 to 320+00 LT | 4615 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 300+00 to 320+00 LT - Two Applications | 372 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 300+00 to 320+00 LT | 944 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 300+00 to 320+00 LT | 1395 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 300+00 to 320+00 LT | 83.7 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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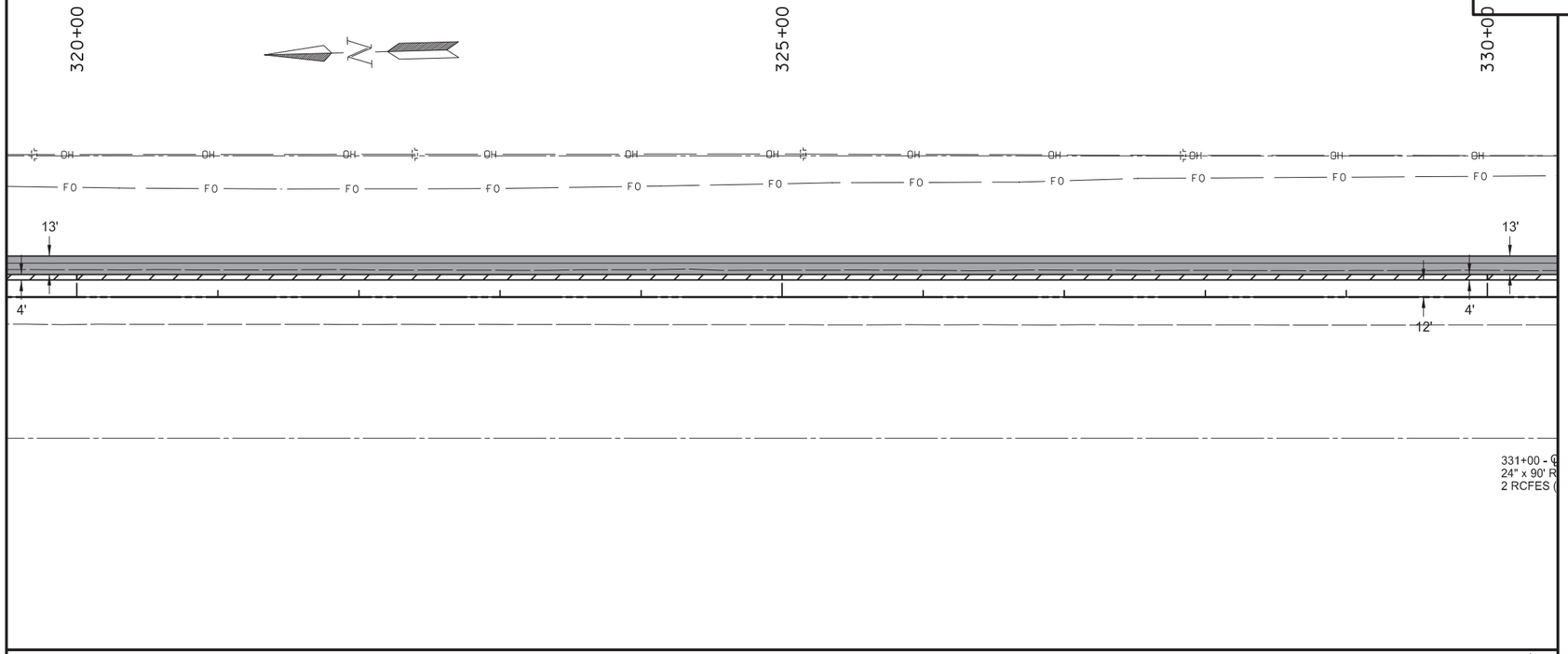
Paving

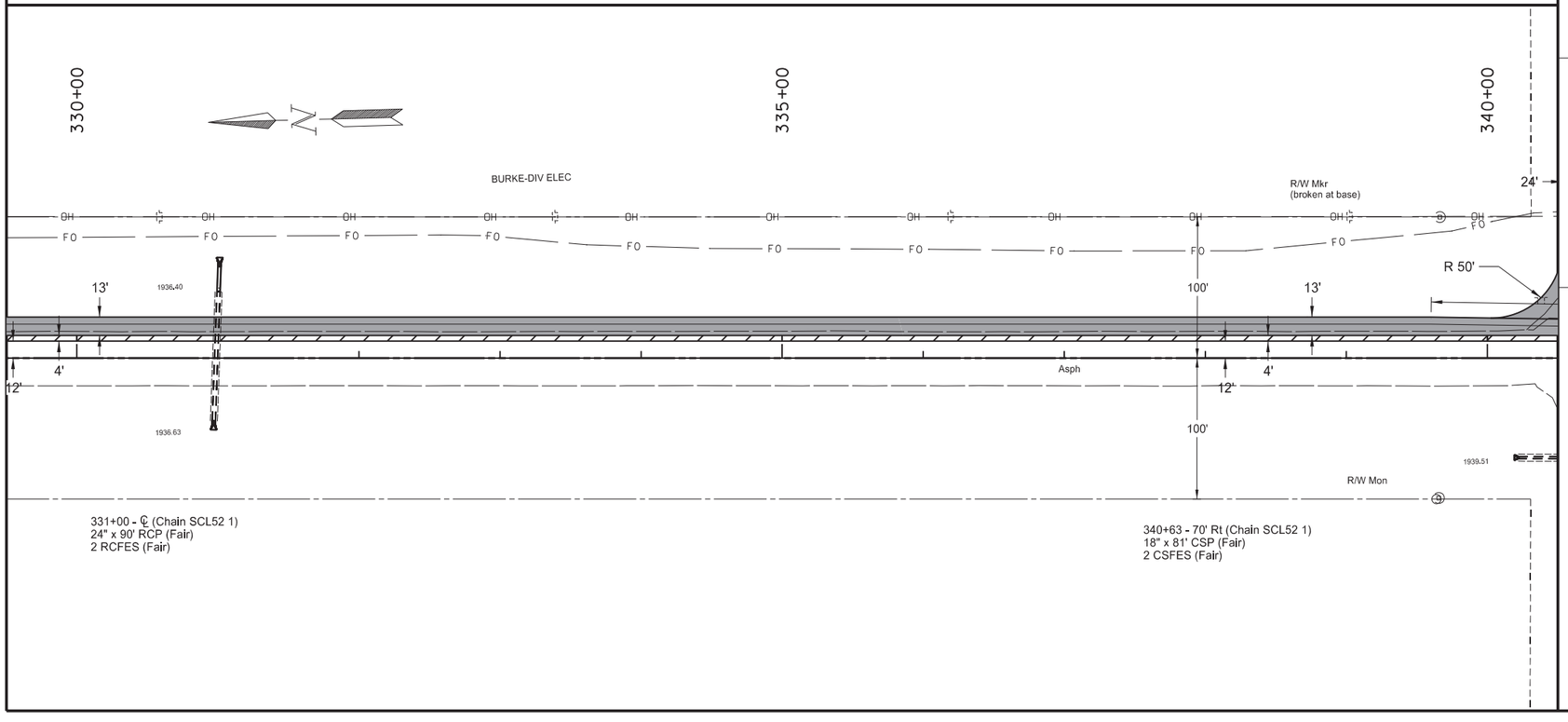
Passing Lane #1

Sta 300+00 to Sta 320+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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| ND | HEN-7-052(034)000 | 90 | 6 |



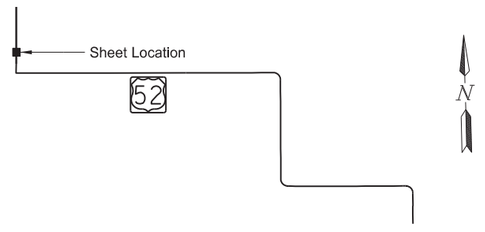




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 320+00 to 340+00 LT | 4615 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 320+00 to 340+00 LT - Two Applications | 372 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 320+00 to 340+00 LT | 944 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 320+00 to 340+00 LT | 1395 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 320+00 to 340+00 LT | 83.7 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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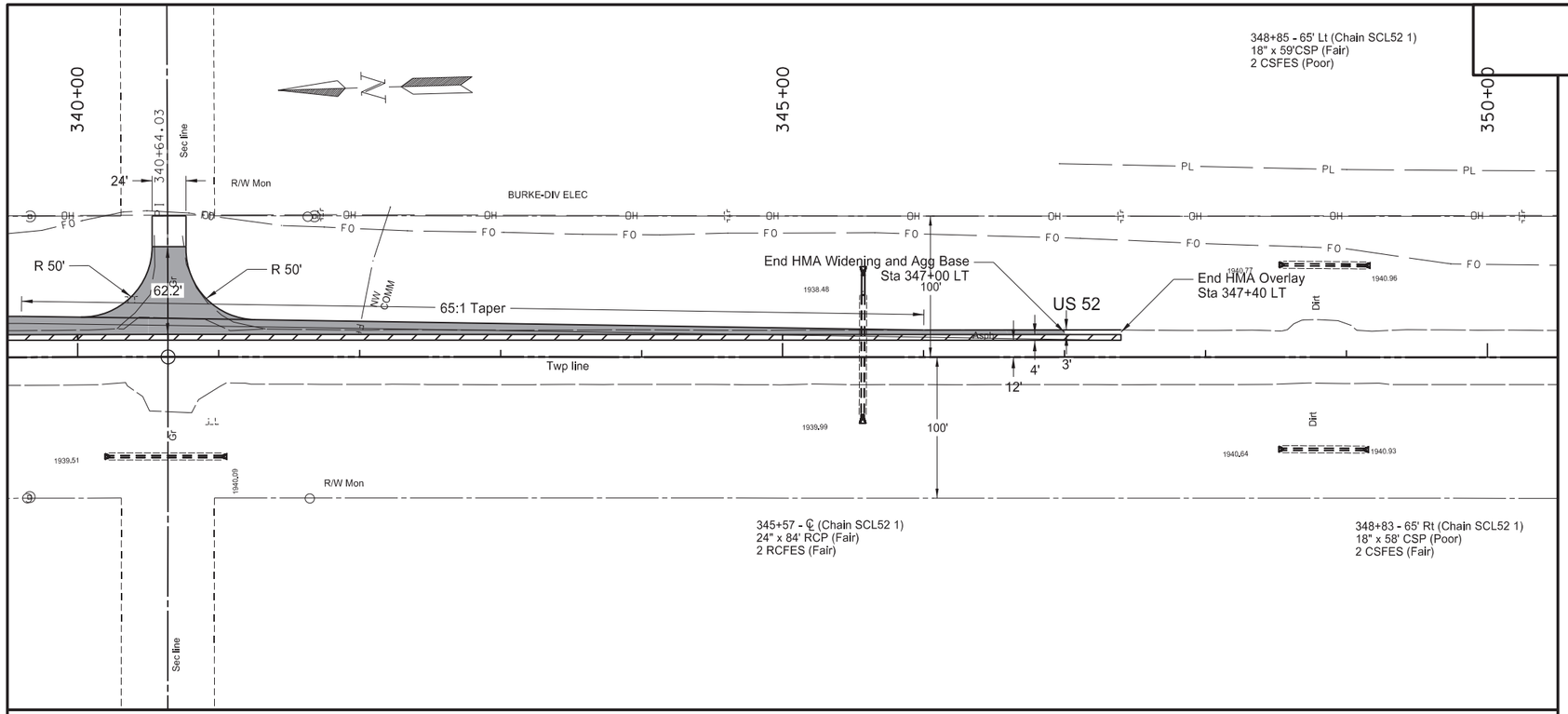
09/01/23

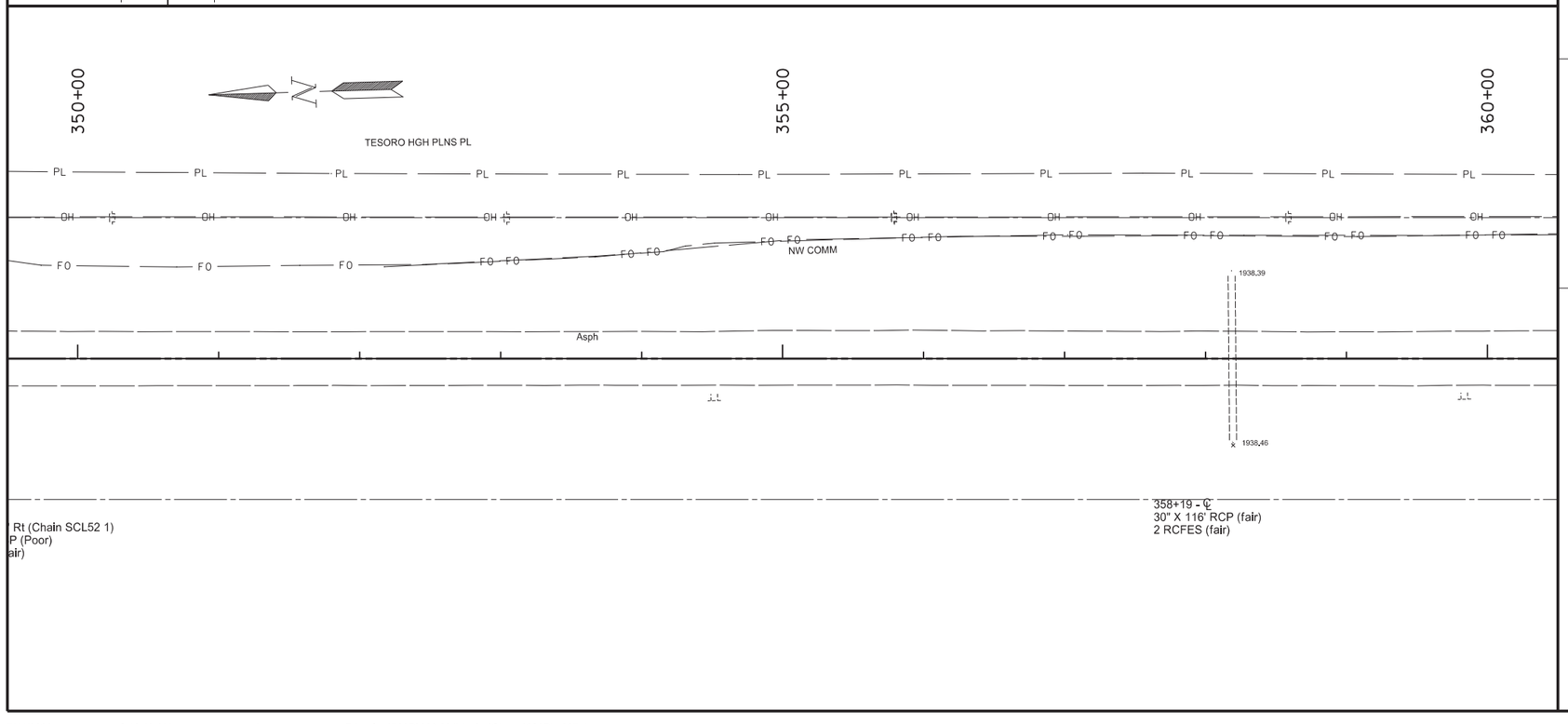
Paving

Passing Lane #1

Sta 320+00 to Sta 340+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 7 |



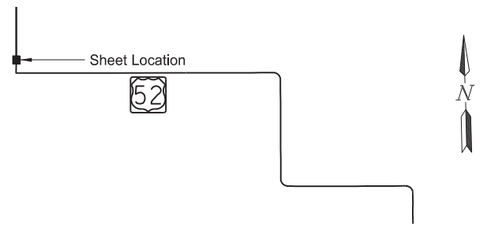




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 340+00 to 347+00 LT | 1615 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 340+00 to 347+40 LT - Two Applications | 130 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 340+00 to 347+40 LT | 331 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 340+00 to 347+40 LT | 490 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 340+00 to 347+40 LT | 29.4 | TON |

Legend

7.0" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



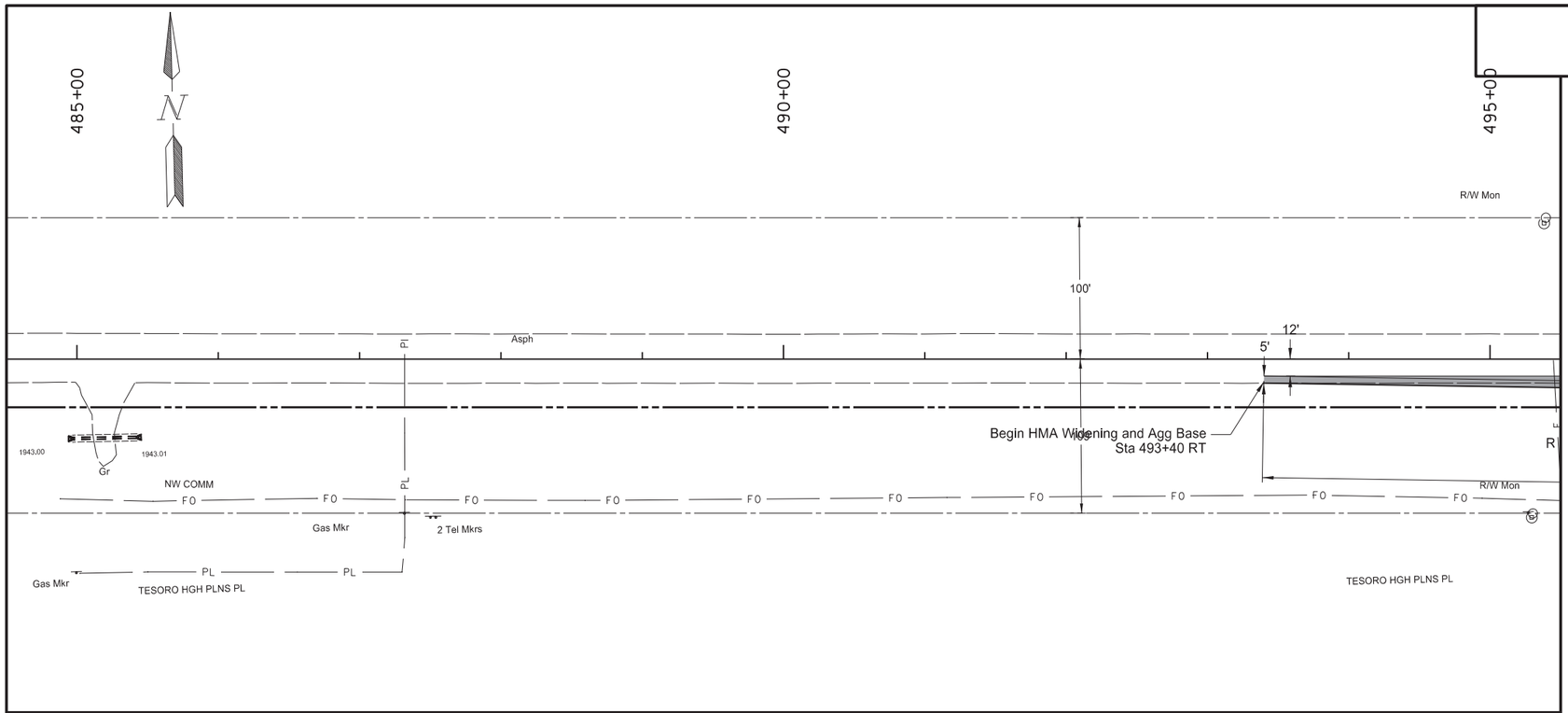

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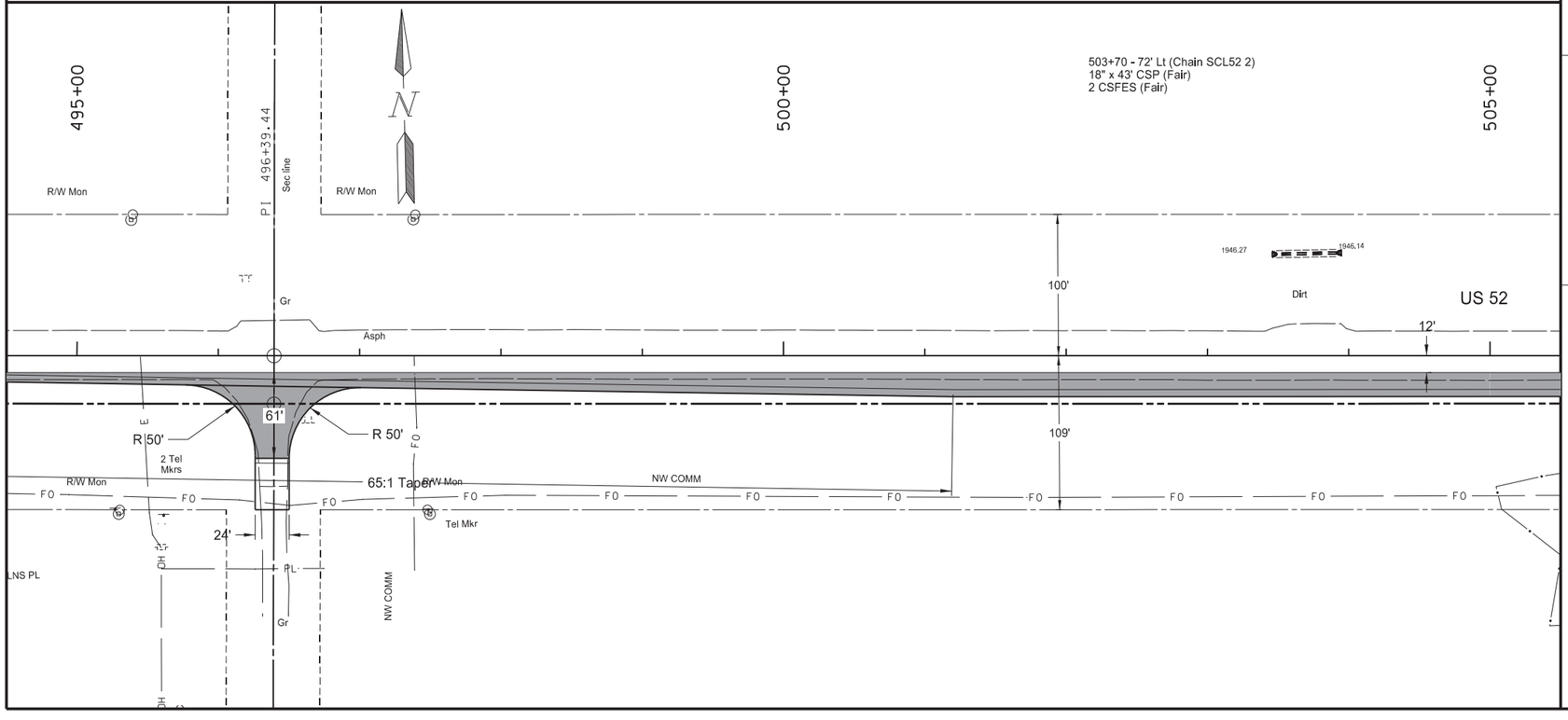
Paving

Passing Lane #1

Sta 340+00 to Sta 360+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 8 |

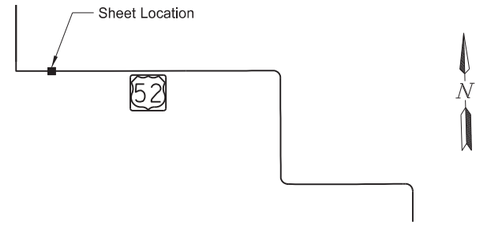



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 493+40 to 505+00 RT | 3127 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 493+40 to 505+00 RT - Two Applications | 241 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 493+40 to 505+00 RT | 667 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 493+40 to 505+00 RT | 878 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 493+40 to 505+00 RT | 52.7 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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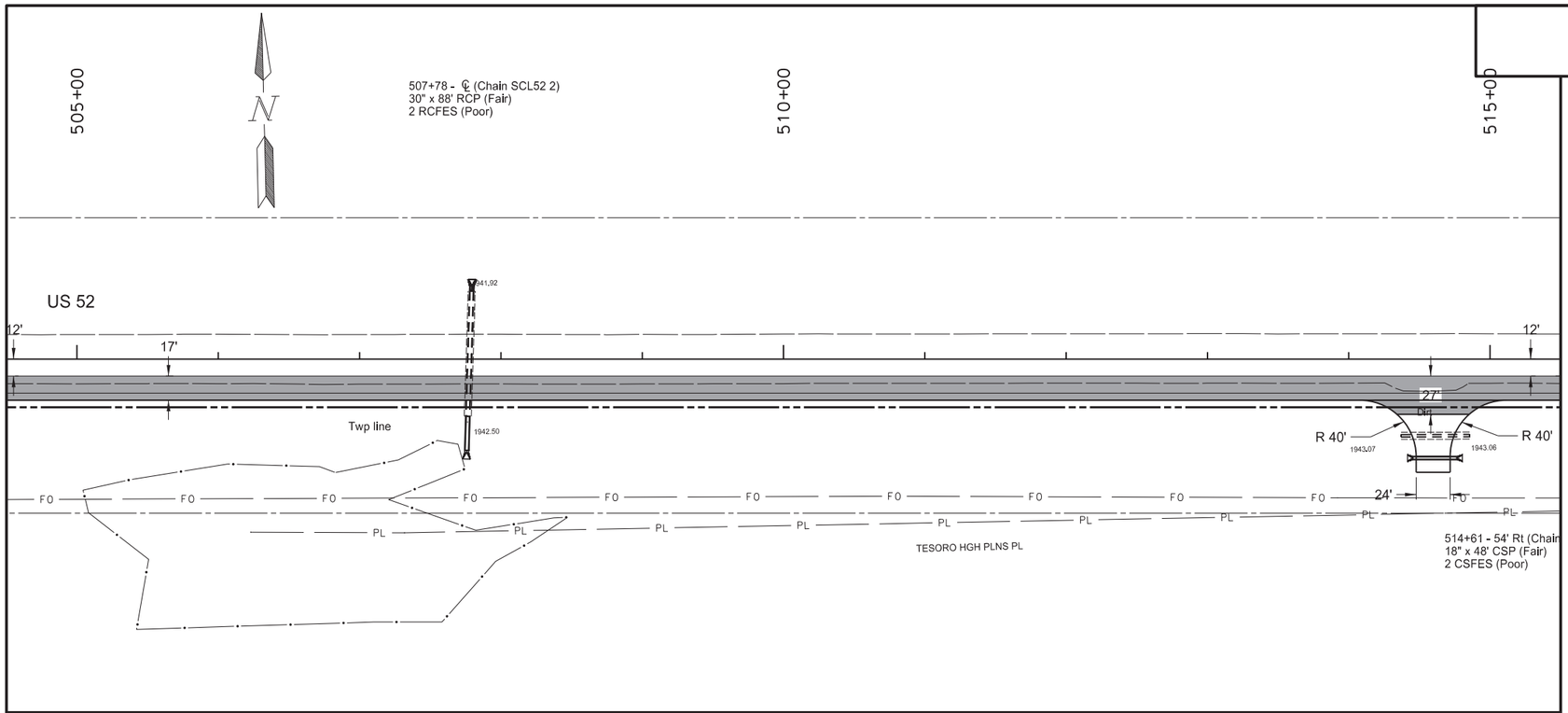
Paving

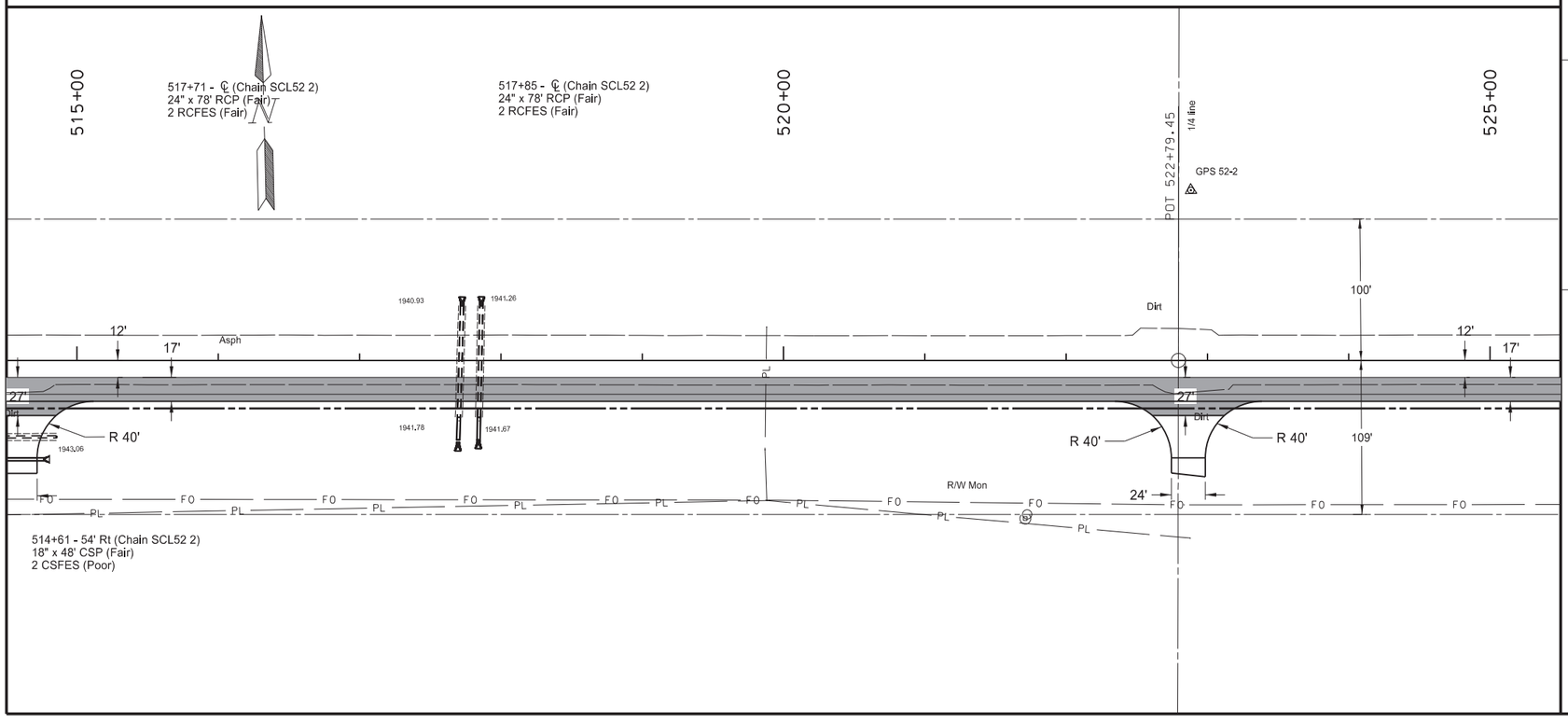
Passing Lane #2

Sta 485+00 to Sta 505+00

7/11/2022 9:10:42 AM cpatch R:\project\70052000.034\design\Sheets\090PL_008.dgn

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| ND | HEN-7-052(034)000 | 90 | 9 |

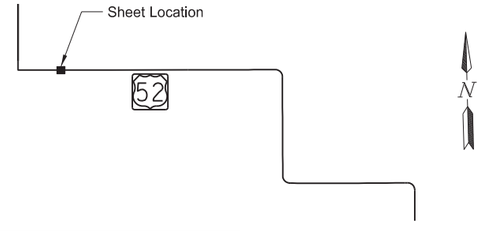



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 505+00 to 525+00 RT | 5391 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 505+00 to 525+00 RT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 505+00 to 525+00 RT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 505+00 to 525+00 RT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 505+00 to 525+00 RT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



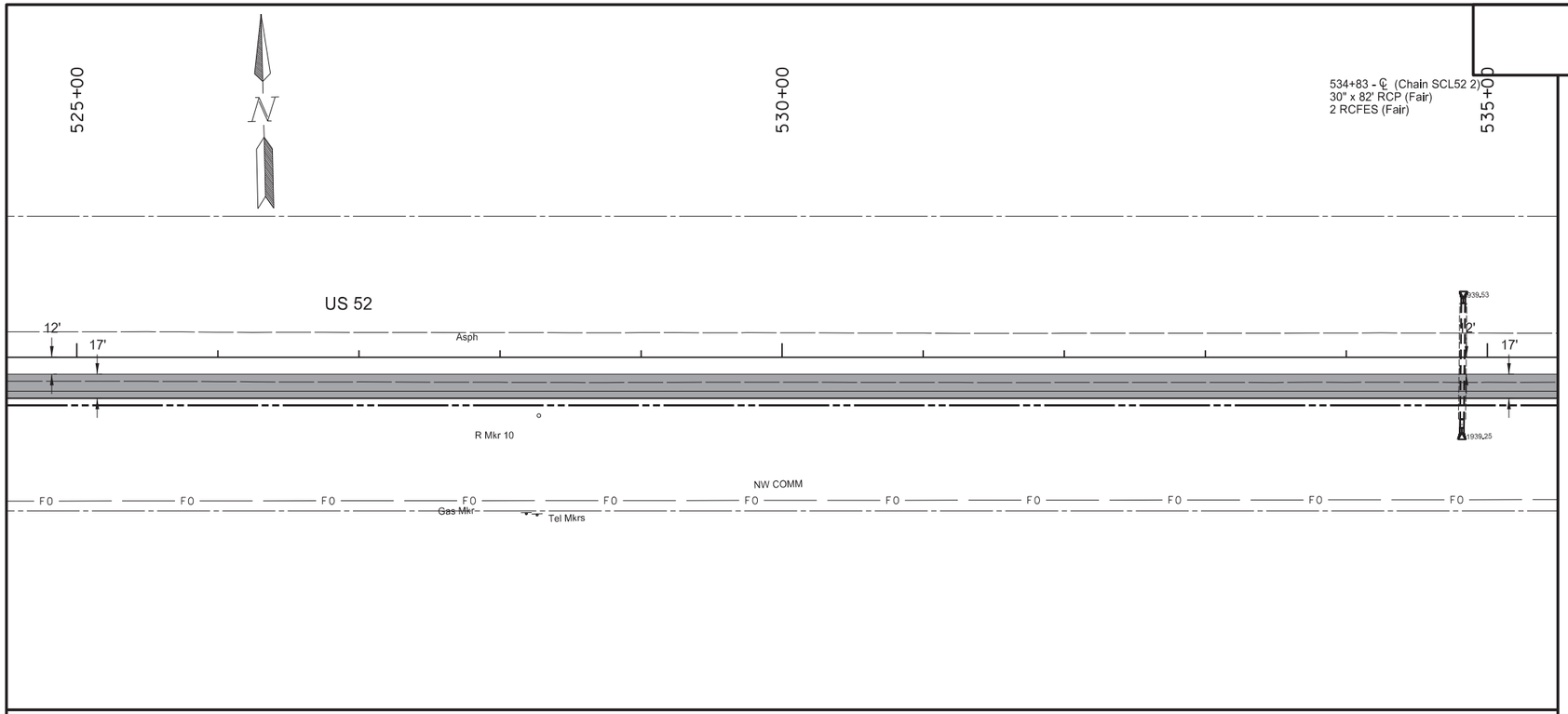

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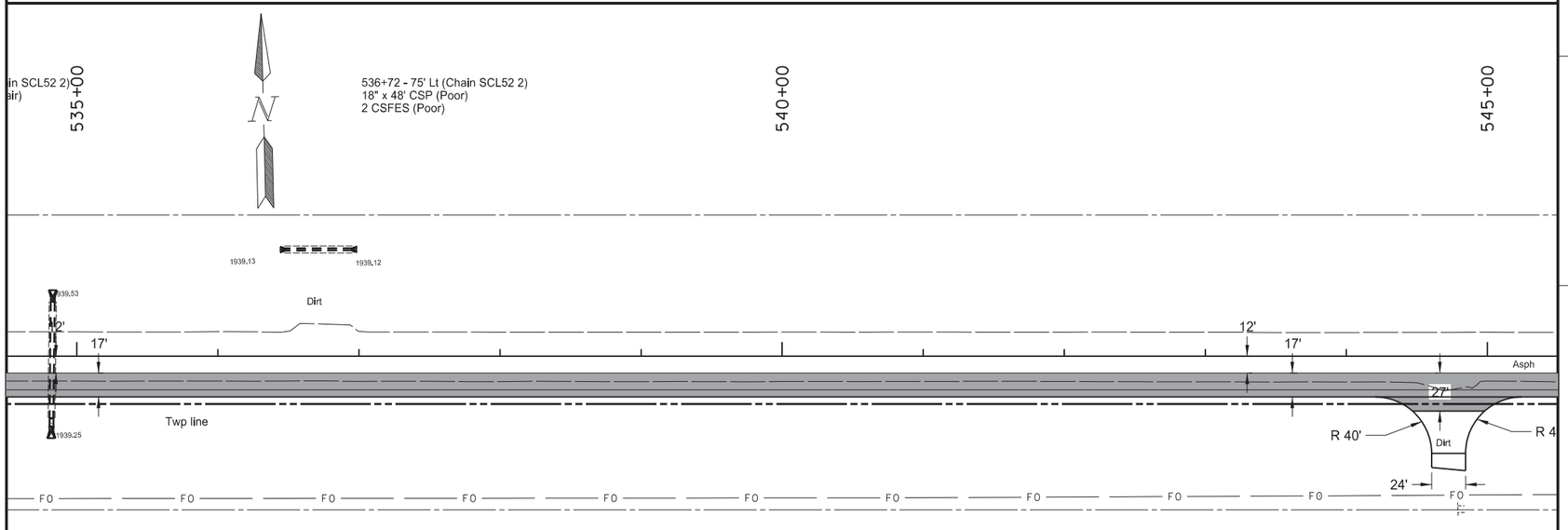
Paving

Passing Lane #2

Sta 505+00 to Sta 525+00

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|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 10 |

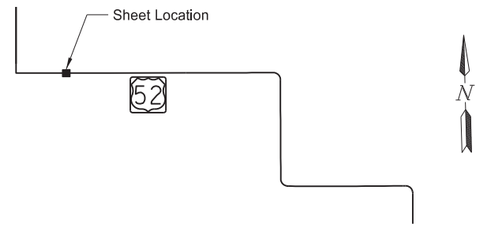



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 525+00 to 545+00 RT | 5391 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 525+00 to 545+00 RT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 525+00 to 545+00 RT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 525+00 to 545+00 RT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 525+00 to 545+00 RT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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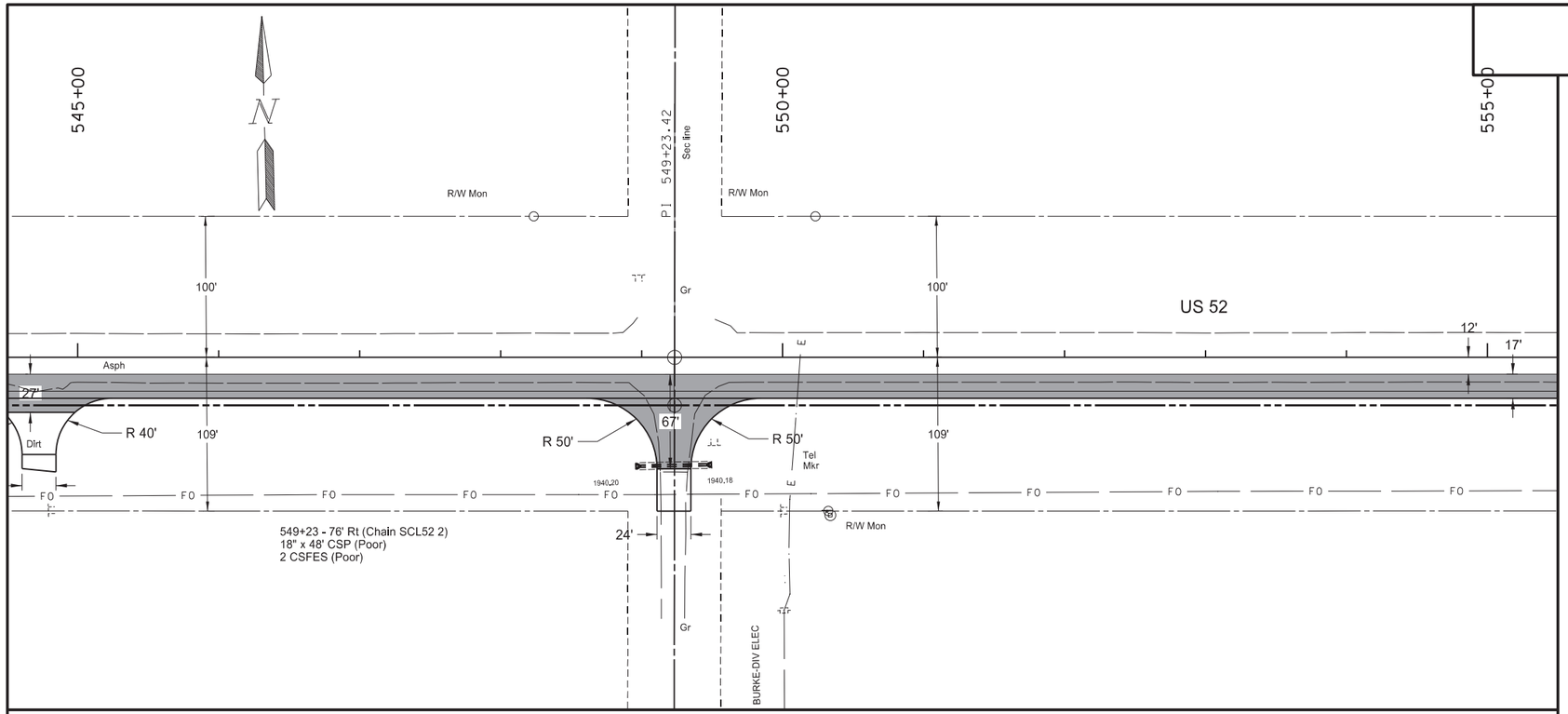
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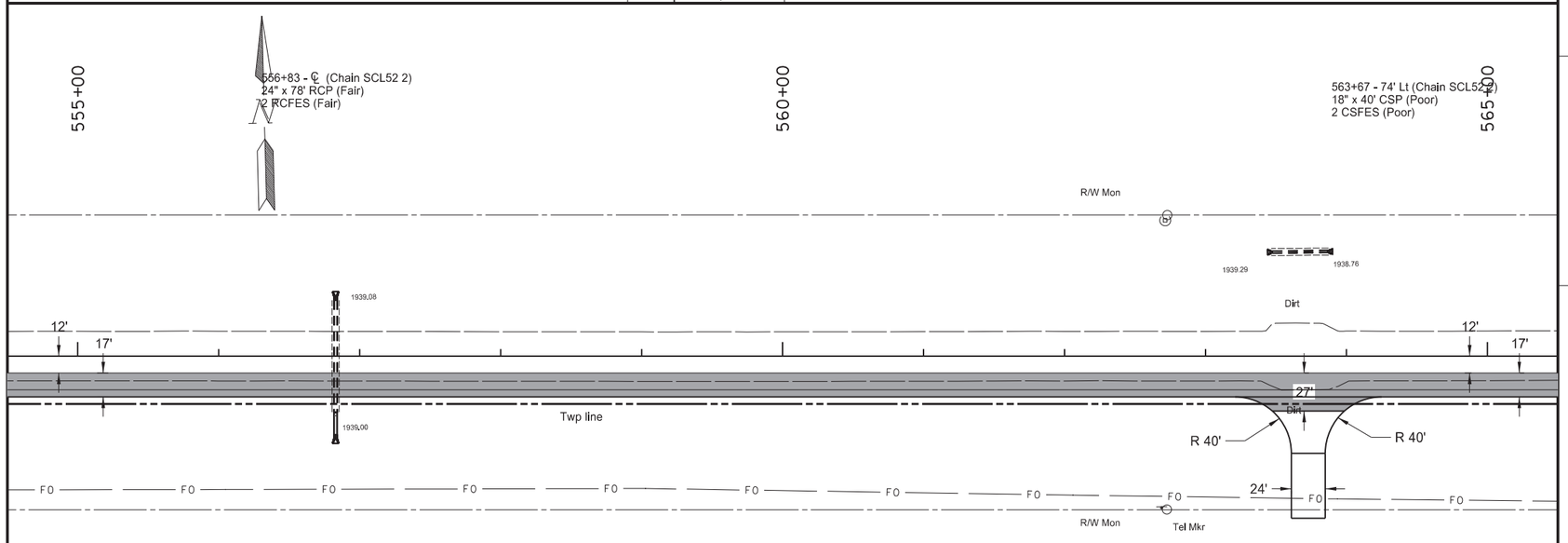
Passing Lane #2

Sta 525+00 to Sta 545+00

7/11/2022 9:10:46 AM cpatch R:\project\70052000.034\design\Sheets\090PL_010.dgn

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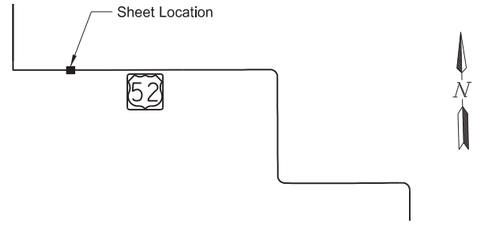



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 545+00 to 565+00 RT | 5391 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 545+00 to 565+00 RT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 545+00 to 565+00 RT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 545+00 to 565+00 RT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 545+00 to 565+00 RT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



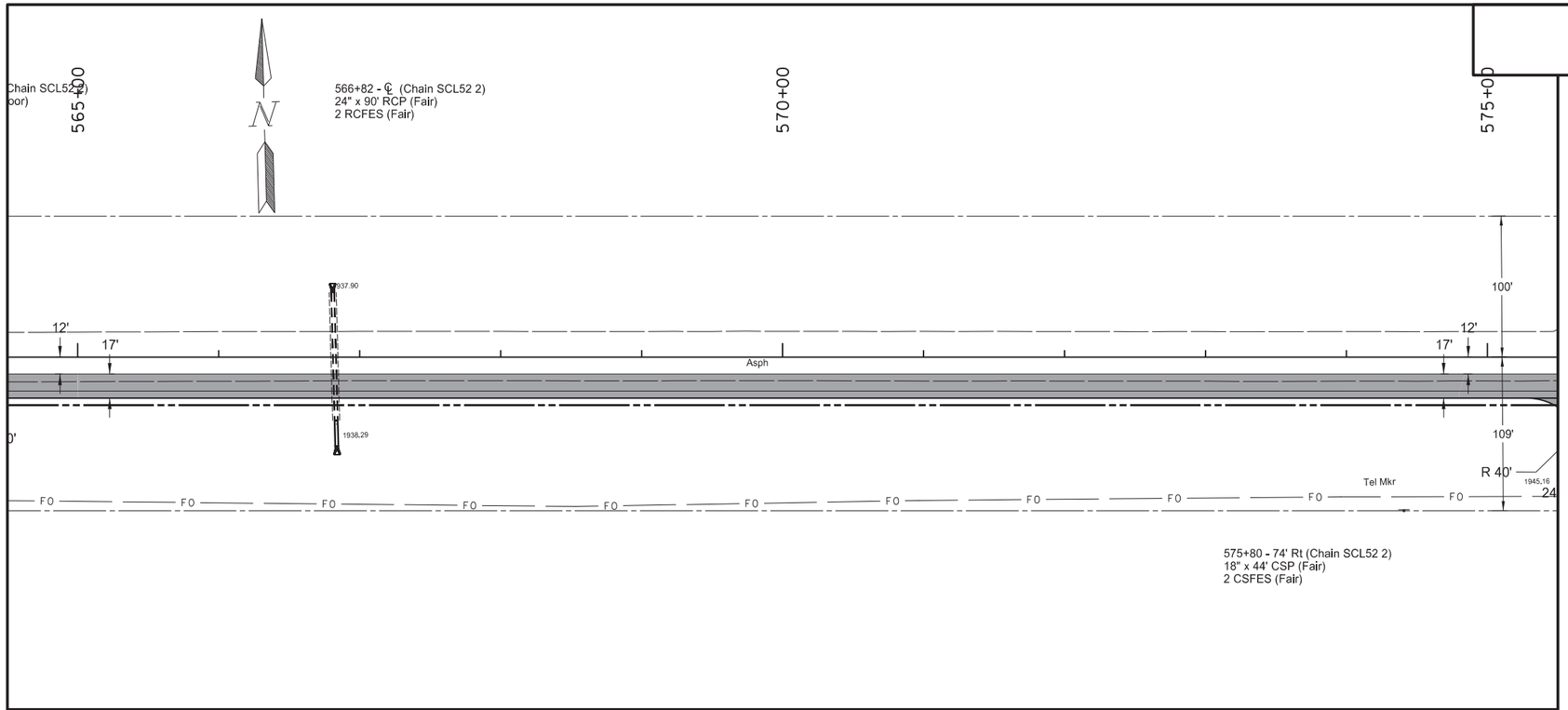

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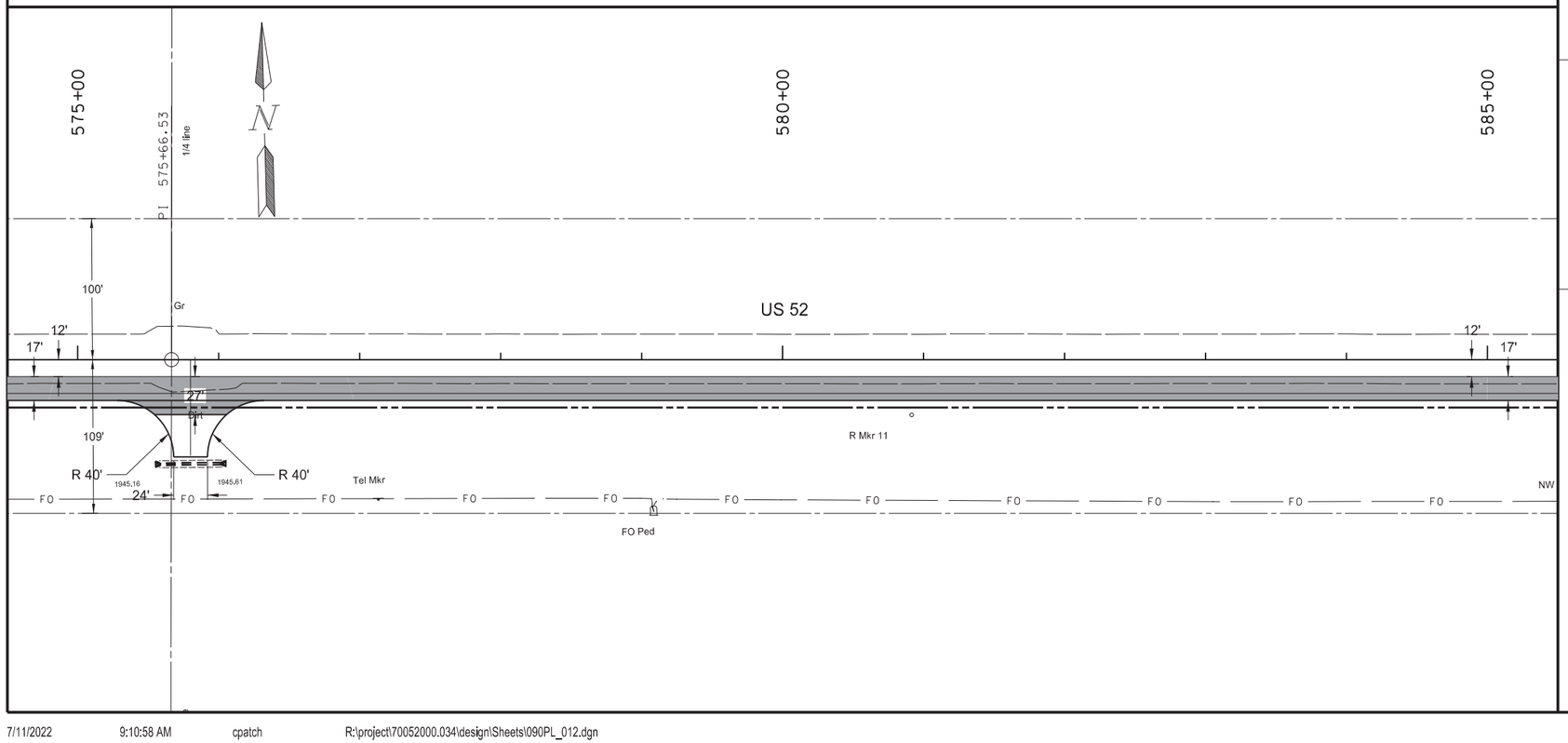
Paving

Passing Lane #2

Sta 545+00 to Sta 565+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 12 |

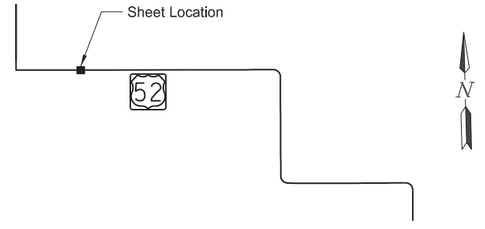



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 565+00 to 585+00 RT | 5391 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 565+00 to 585+00 RT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 565+00 to 585+00 RT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 565+00 to 585+00 RT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 565+00 to 585+00 RT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



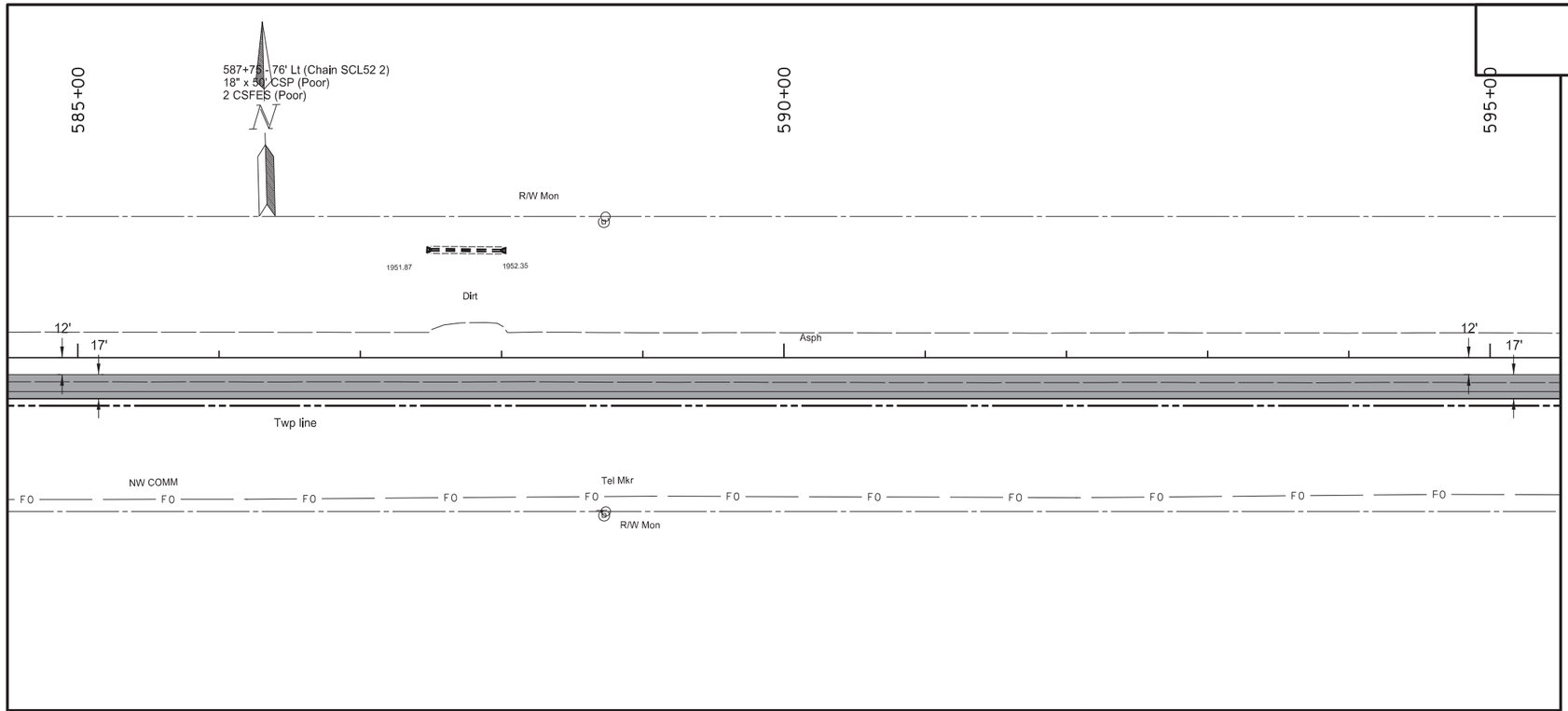

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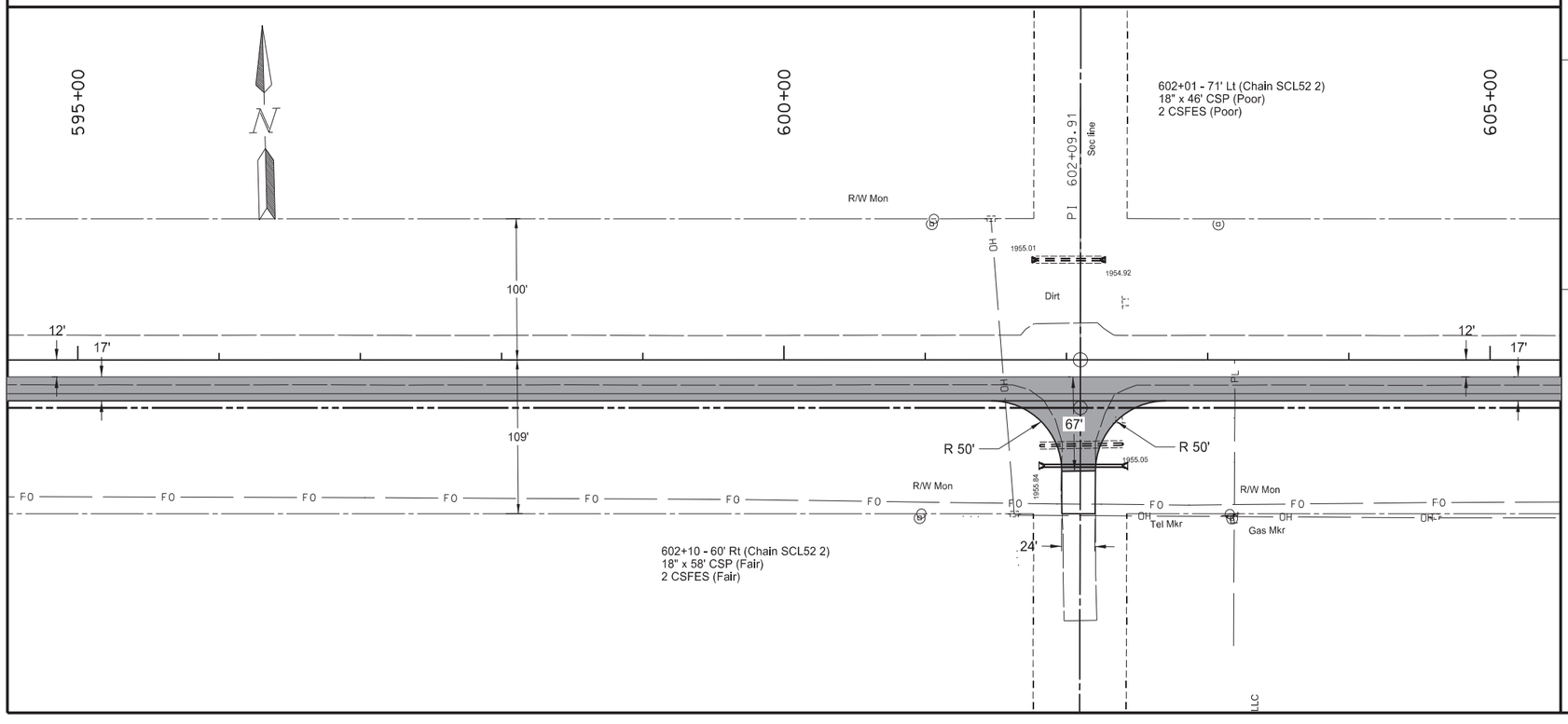
Paving

Passing Lane #2

Sta 565+00 to Sta 585+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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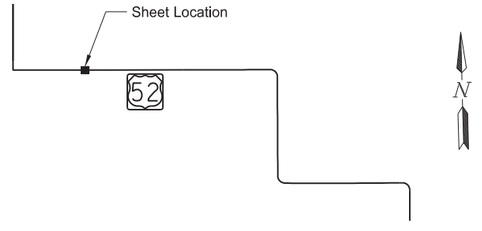



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 585+00 to 605+00 RT | 5391 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 585+00 to 605+00 RT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 585+00 to 605+00 RT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 585+00 to 605+00 RT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 585+00 to 605+00 RT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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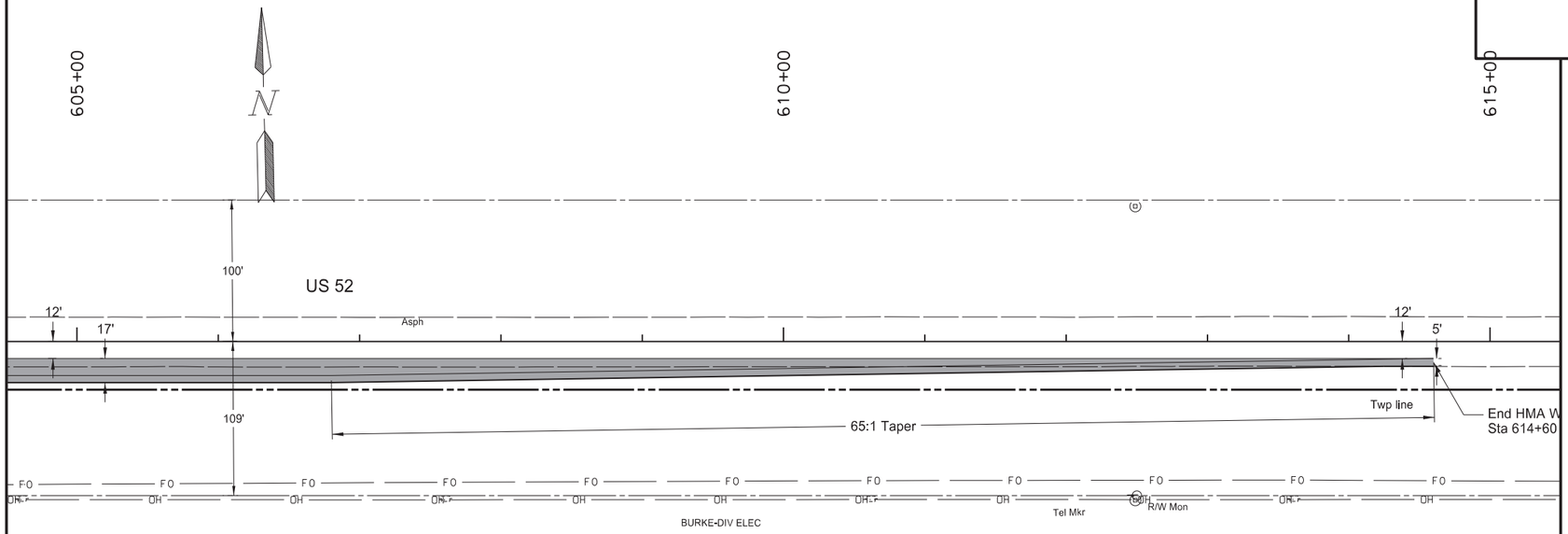
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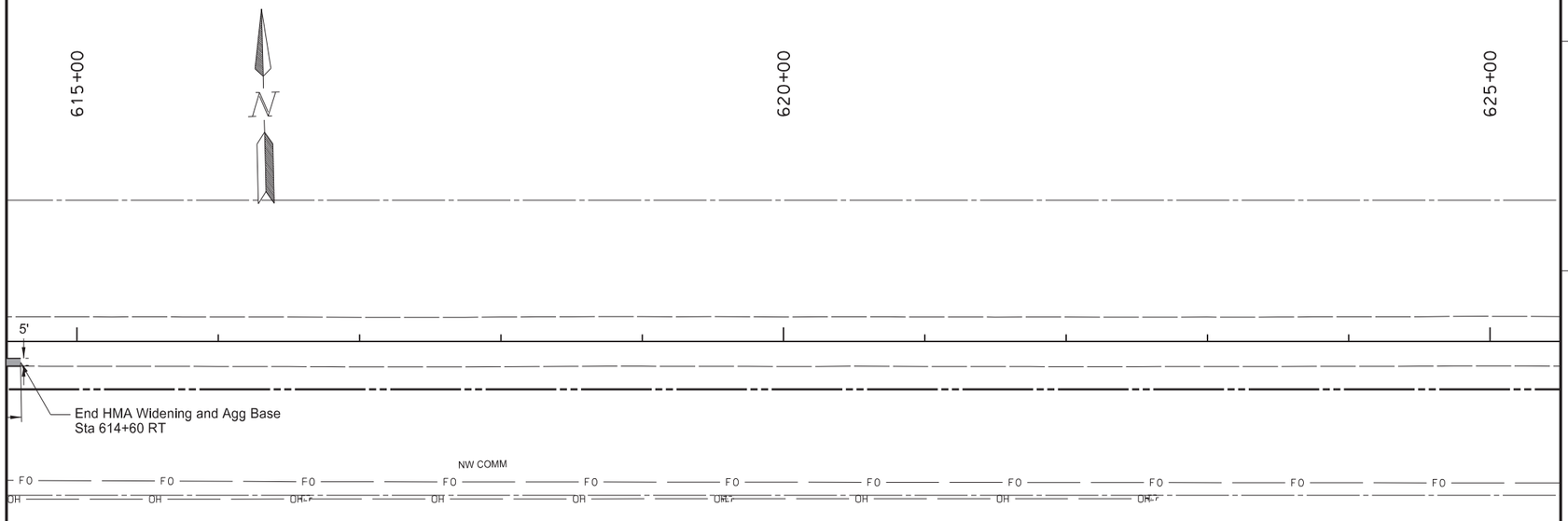
Passing Lane #2

Sta 585+00 to Sta 605+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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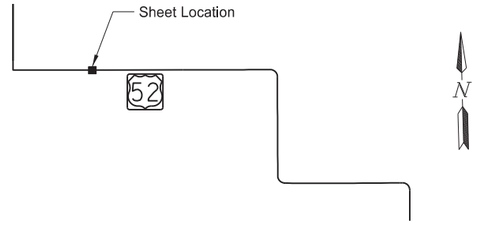



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 605+00 to 614+60 RT | 2588 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 605+00 to 614+60 RT - Two Applications | 200 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 605+00 to 614+60 RT | 552 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 605+00 to 614+60 RT | 726 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 605+00 to 614+60 RT | 43.6 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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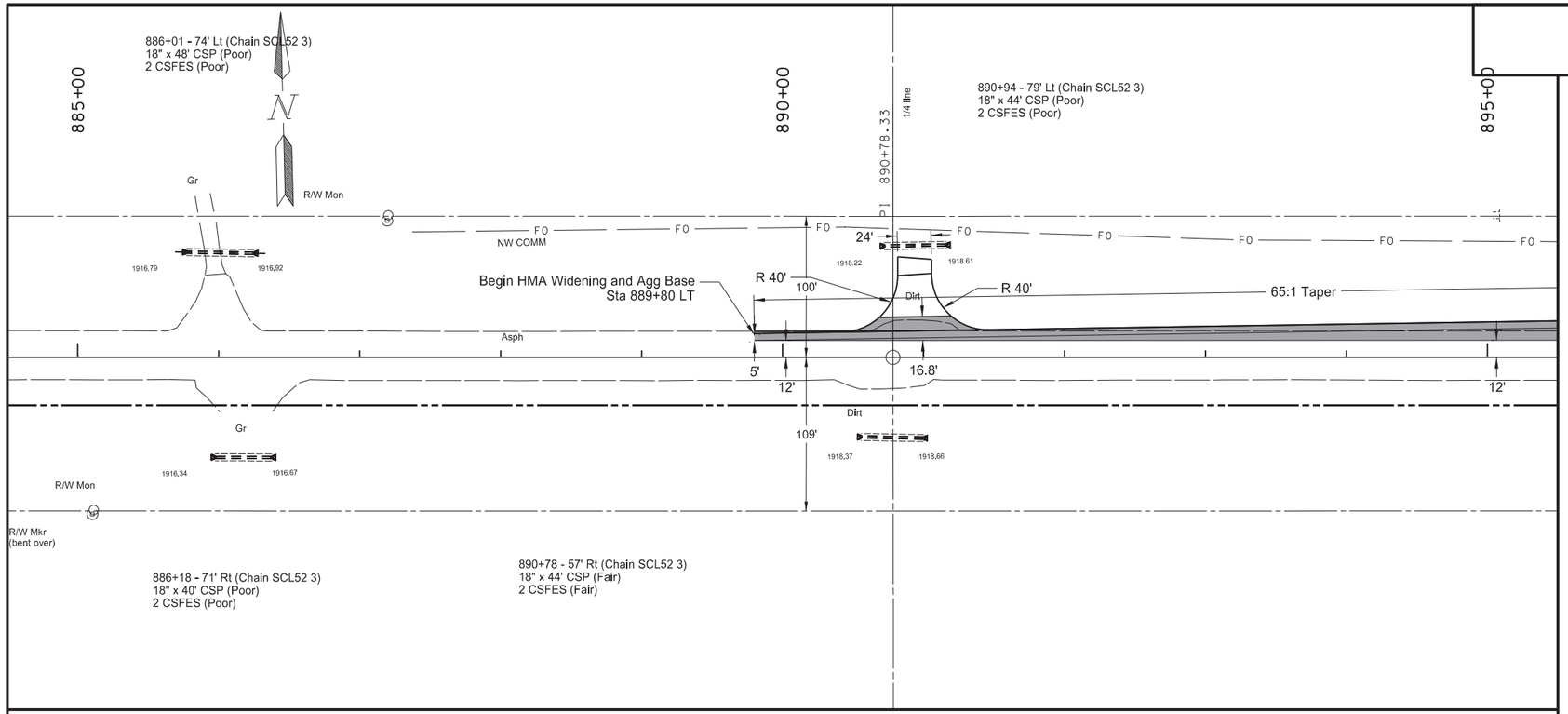
Paving

Passing Lane #2

Sta 605+00 to Sta 625+00

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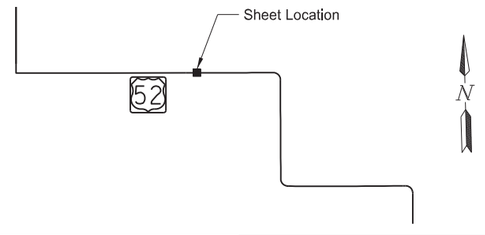
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|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 15 |




| SPEC CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|
| 302 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | Sta 889+80 to 905+00 LT | 4095 | TON |
| 401 0050 | **TACK COAT** | | |
| | Sta 889+80 to 905+00 LT - Two Applications | 316 | GAL |
| 401 0060 | **PRIME COAT** | | |
| | Sta 889+80 to 905+00 LT | 1150 | GAL |
| 430 0045 | **SUPERPAVE FAA 45** | | |
| | Sta 889+80 to 905+00 LT | 1150 | TON |
| 430 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | Sta 889+80 to 905+00 LT | 69.0 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



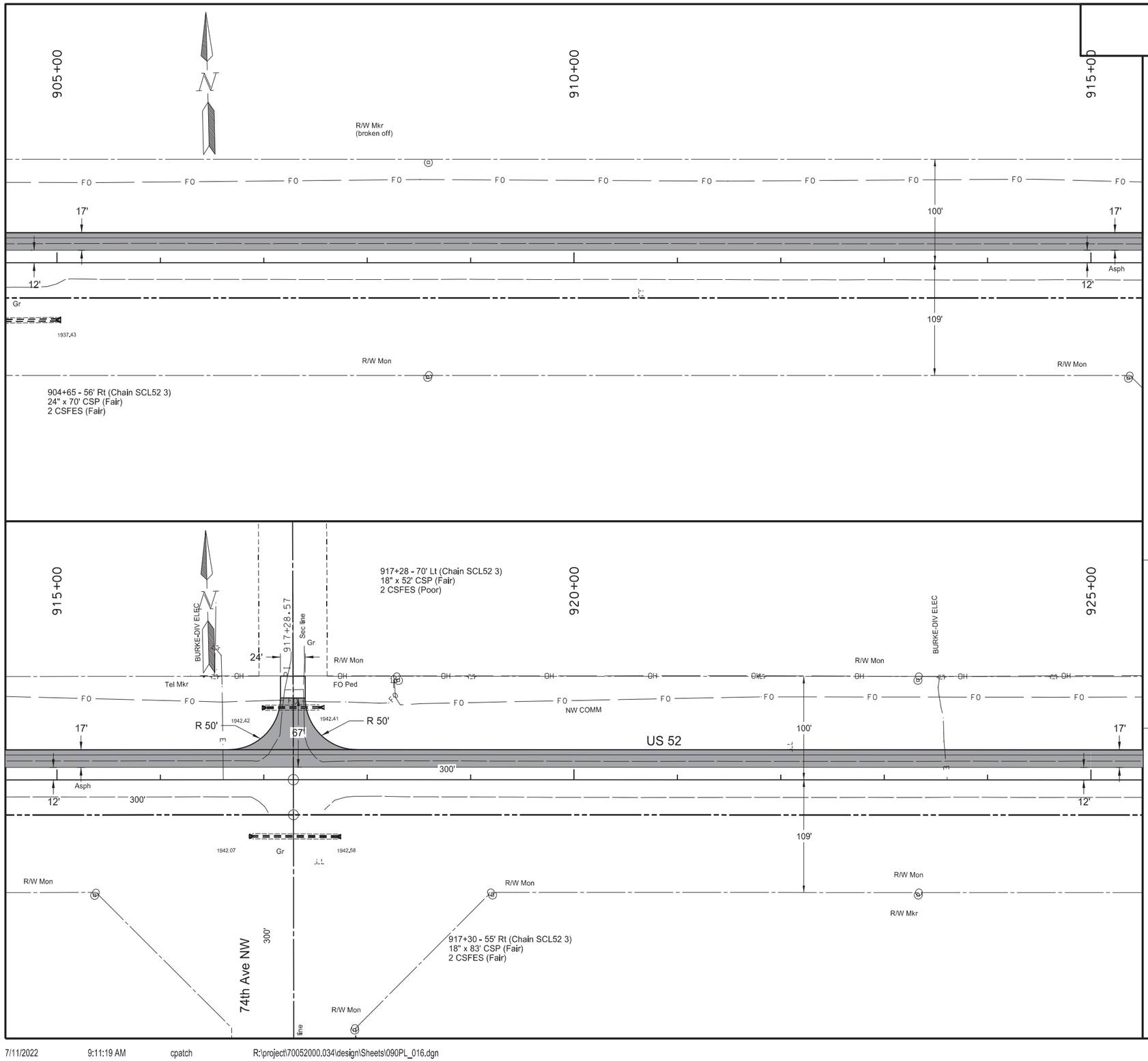

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Paving

Passing Lane #3

Sta 885+00 to Sta 905+00

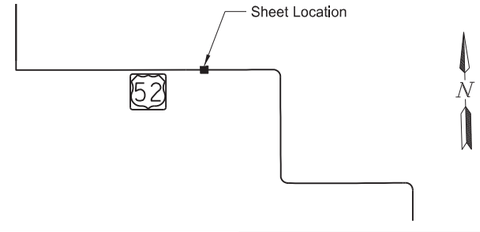
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 16 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 905+00 to 925+00 LT | 5389 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 905+00 to 925+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 905+00 to 925+00 LT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 905+00 to 925+00 LT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 905+00 to 925+00 LT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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09/01/23

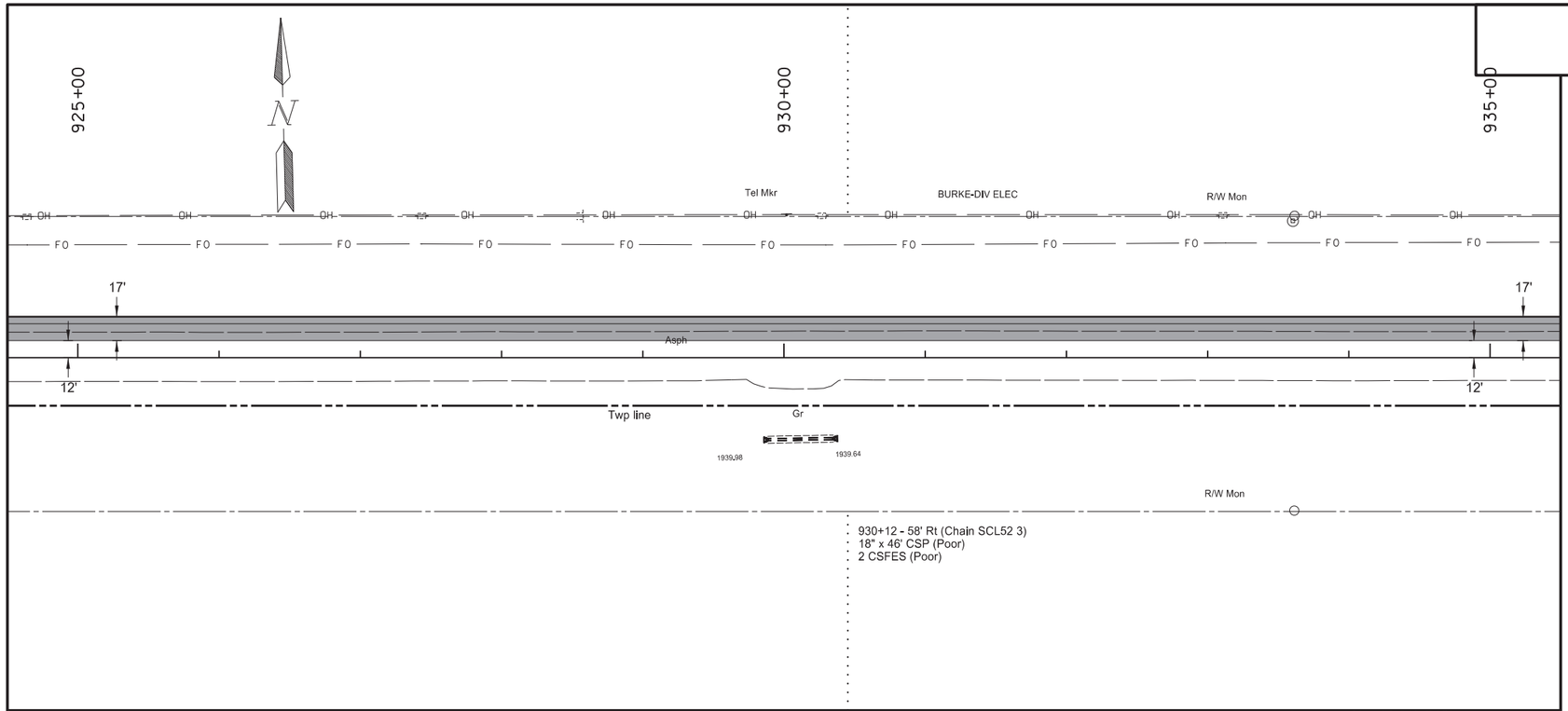
Paving

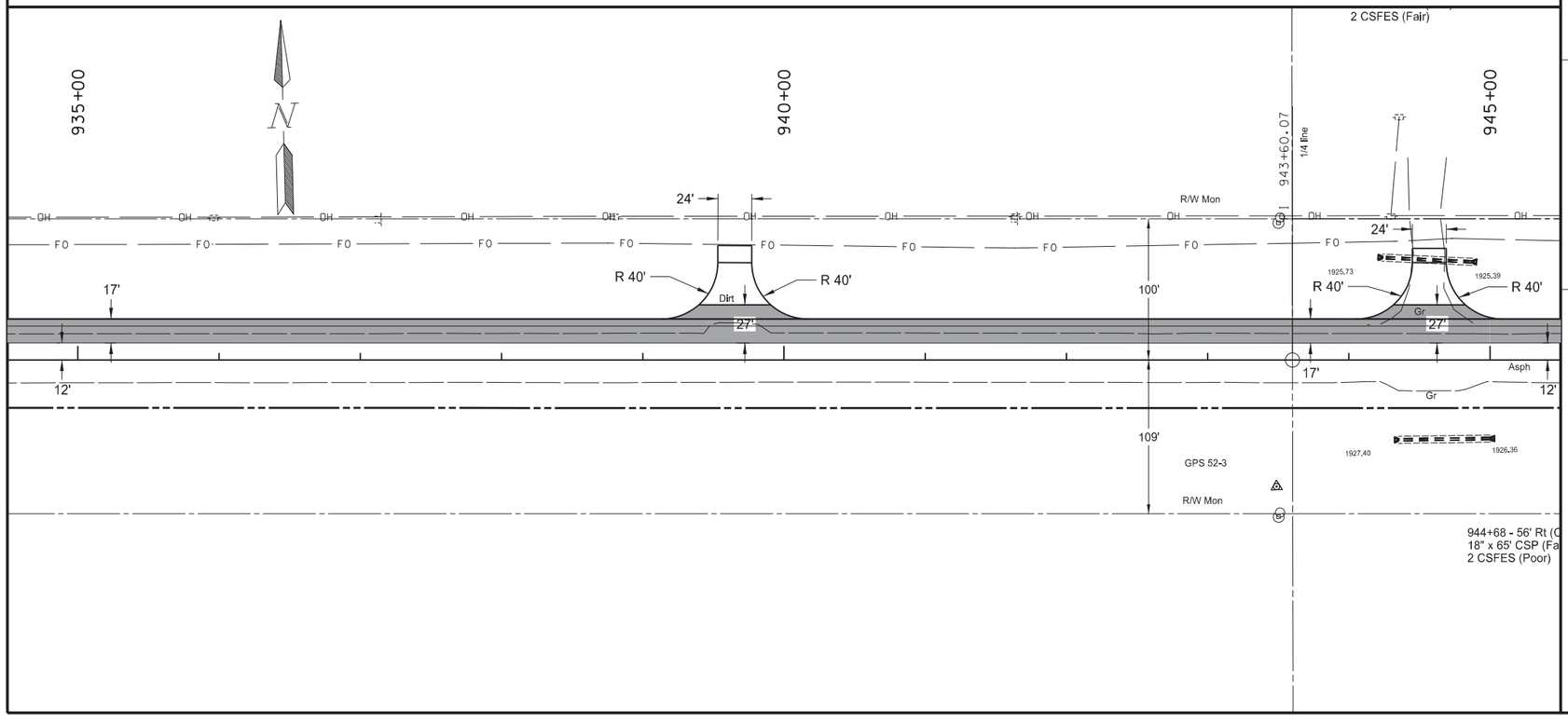
Passing Lane #3

Sta 905+00 to Sta 925+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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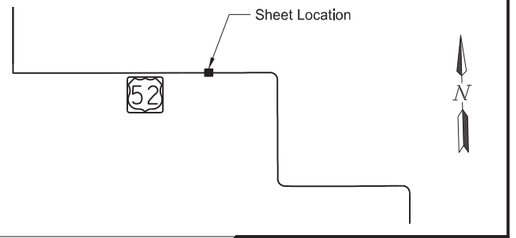



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 925+00 to 945+00 LT | 5389 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 925+00 to 945+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 925+00 to 945+00 LT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 925+00 to 945+00 LT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 925+00 to 945+00 LT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



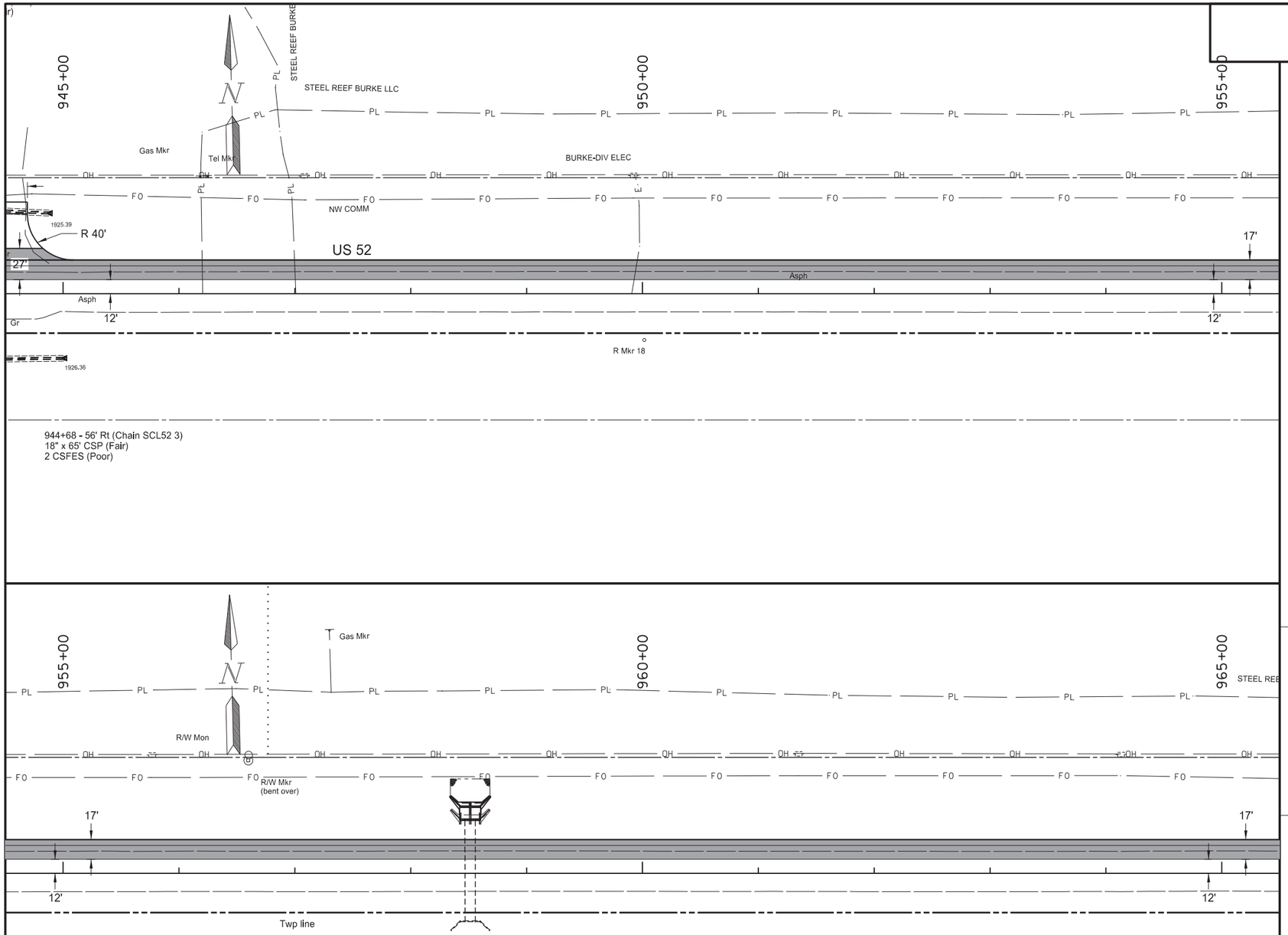

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Paving

Passing Lane #3

Sta 925+00 to Sta 945+00

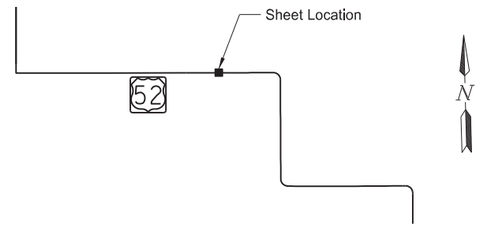
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 18 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 945+00 to 965+00 LT | 5389 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 945+00 to 965+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 945+00 to 965+00 LT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 945+00 to 965+00 LT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 945+00 to 965+00 LT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



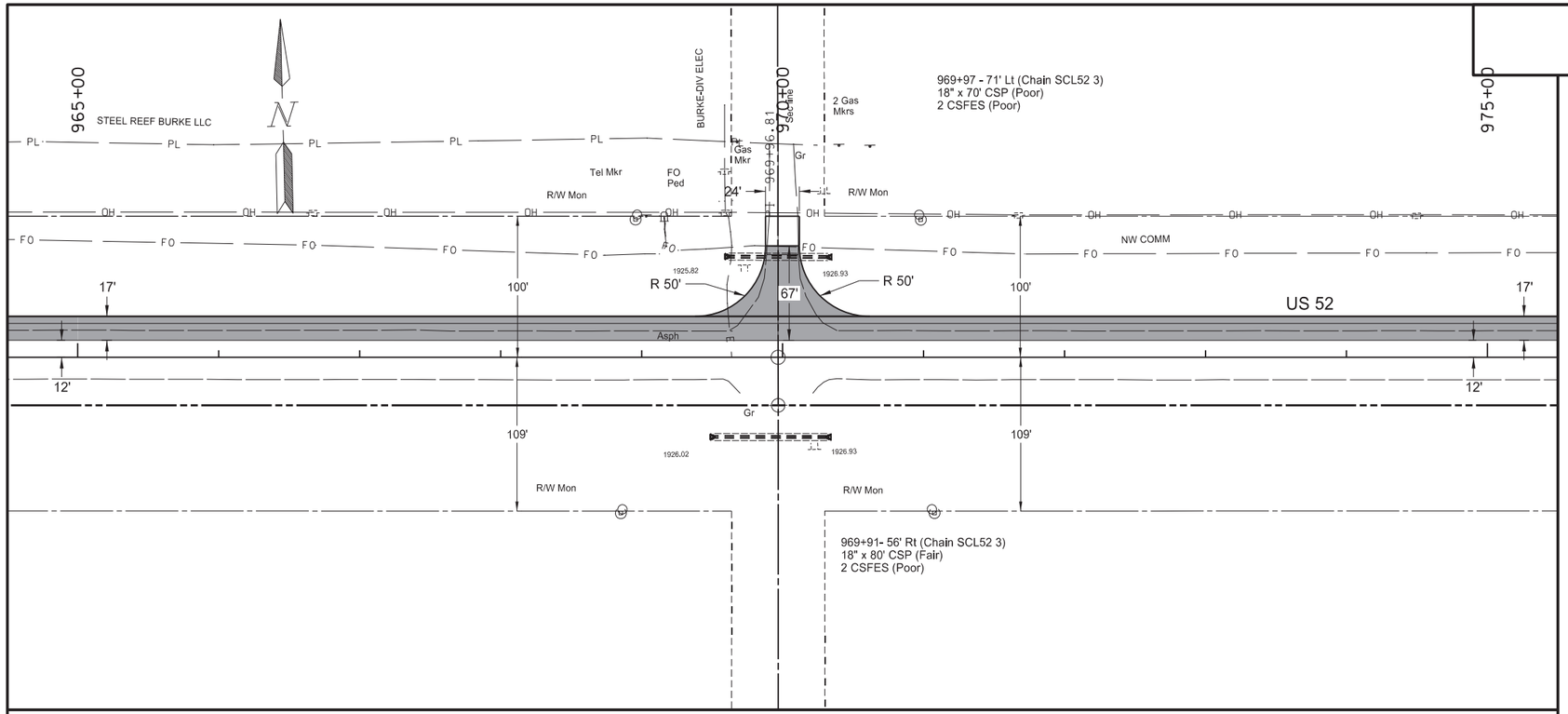

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Paving

Passing Lane #3

Sta Sta 945+00 to Sta 965+00

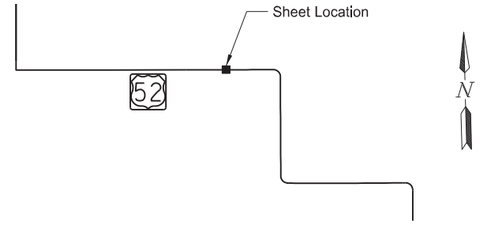
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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| ND | HEN-7-052(034)000 | 90 | 19 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 965+00 to 985+00 LT | 5389 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 965+00 to 985+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 965+00 to 985+00 LT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 965+00 to 985+00 LT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 965+00 to 985+00 LT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course



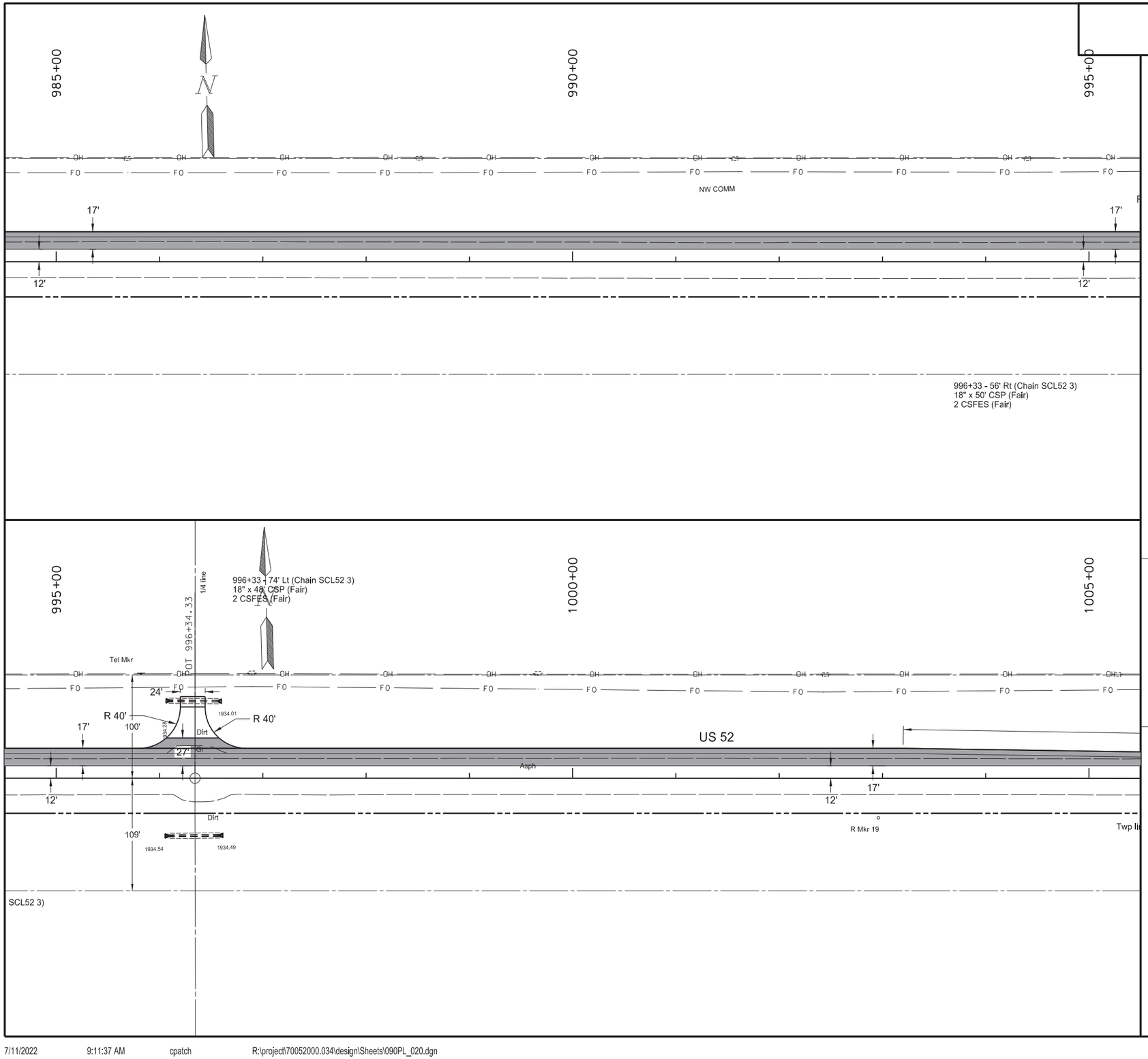

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Paving

Passing Lane #3

Sta 965+00 to Sta 985+00

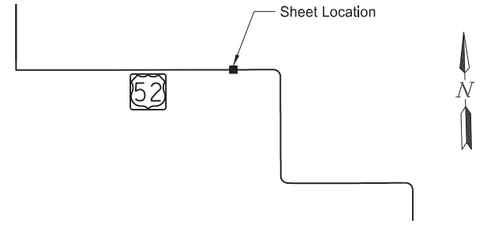
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 20 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 985+00 to 1005+00 LT | 5389 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 985+00 to 1005+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 985+00 to 1005+00 LT | 1150 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 985+00 to 1005+00 LT | 1513 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 985+00 to 1005+00 LT | 90.8 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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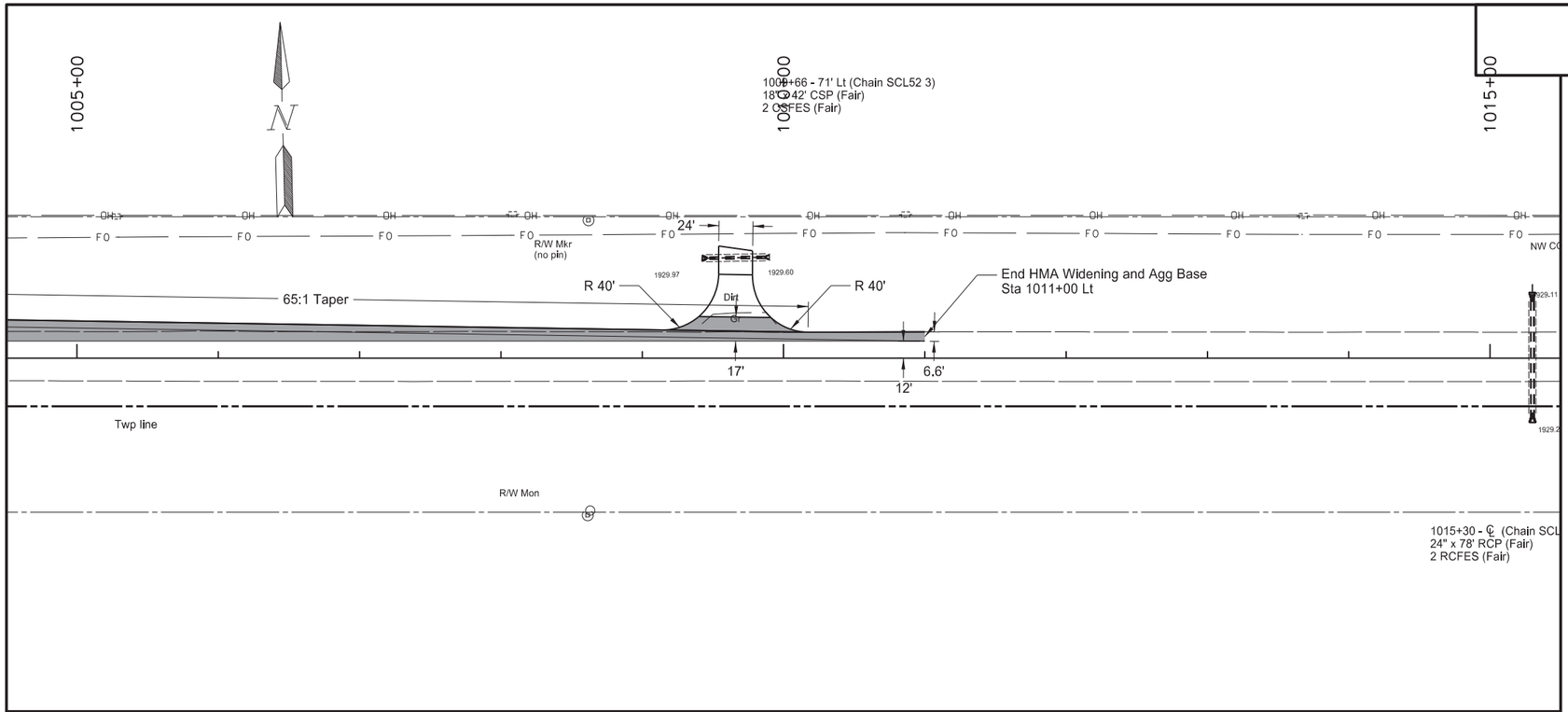
Paving

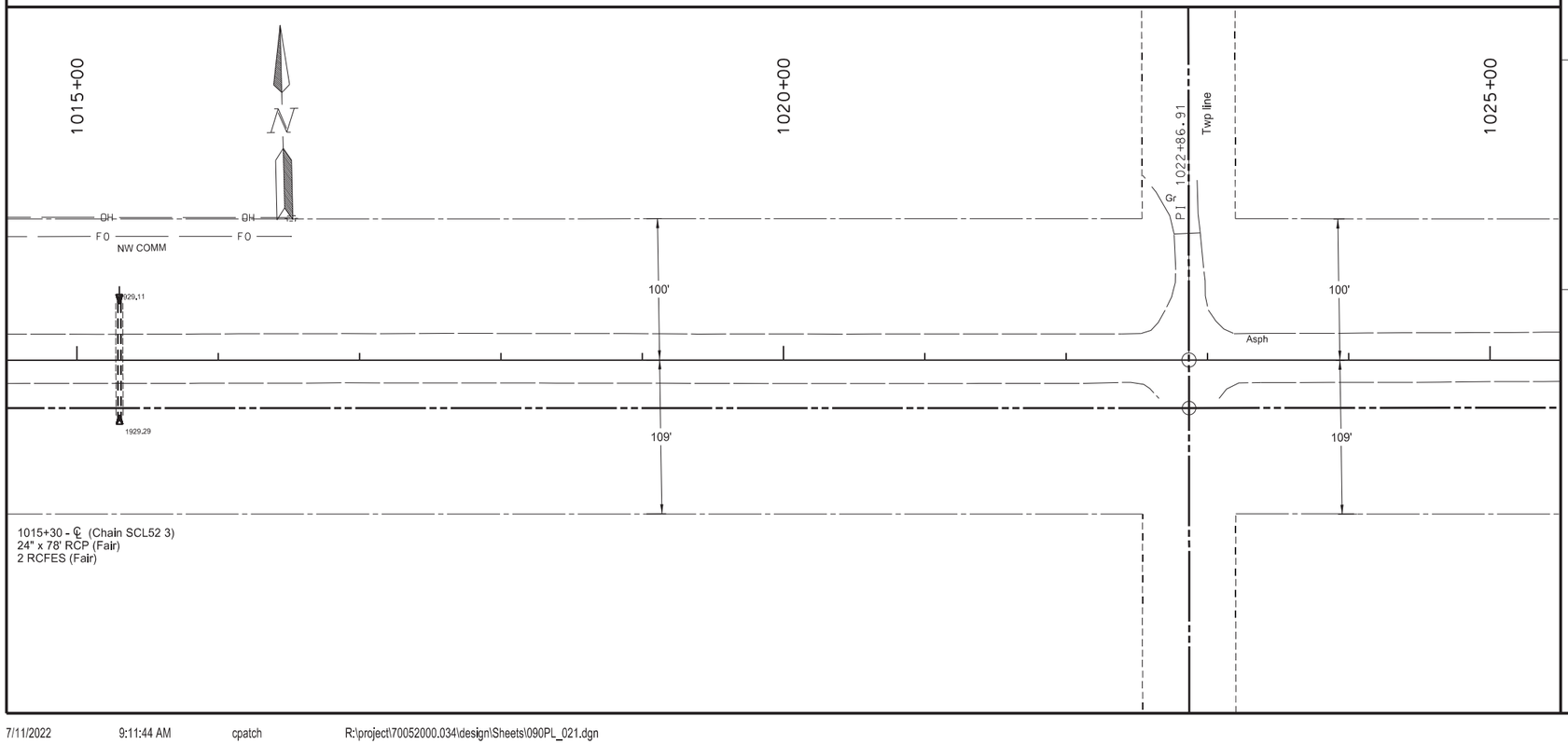
Passing Lane #3

Sta 985+00 to Sta 1005+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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| ND | HEN-7-052(034)000 | 90 | 21 |

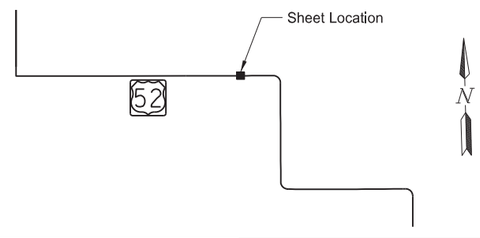



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1005+00 1011+00 LT | 1617 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1005+00 1011+00 LT - Two Applications | 124 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1005+00 1011+00 LT | 345 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1005+00 1011+00 LT | 454 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1005+00 1011+00 LT | 27.2 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course




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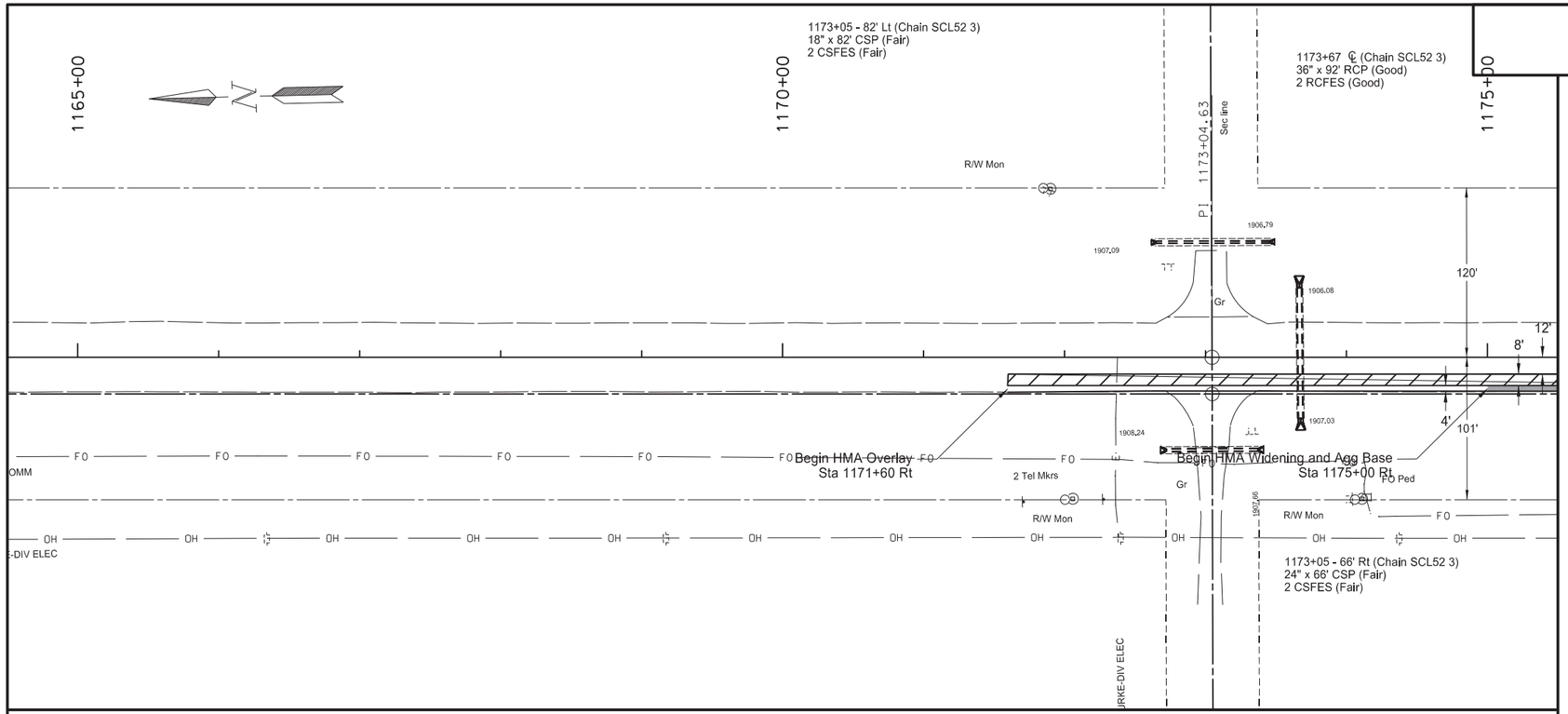
09/01/23

Paving

Passing Lane #3

Sta 1005+00 to Sta 1025+00

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|---|---|---|---|
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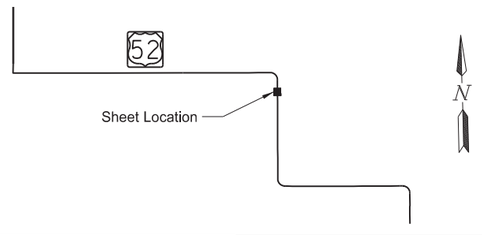



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1175+00 to 1185+00 RT | 1861 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1171+60 to 1185+00 RT - Two Applications | 164 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1171+60 to 1185+00 RT | 353 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1171+60 to 1185+00 RT | 629 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1171+60 to 1185+00 RT | 37.7 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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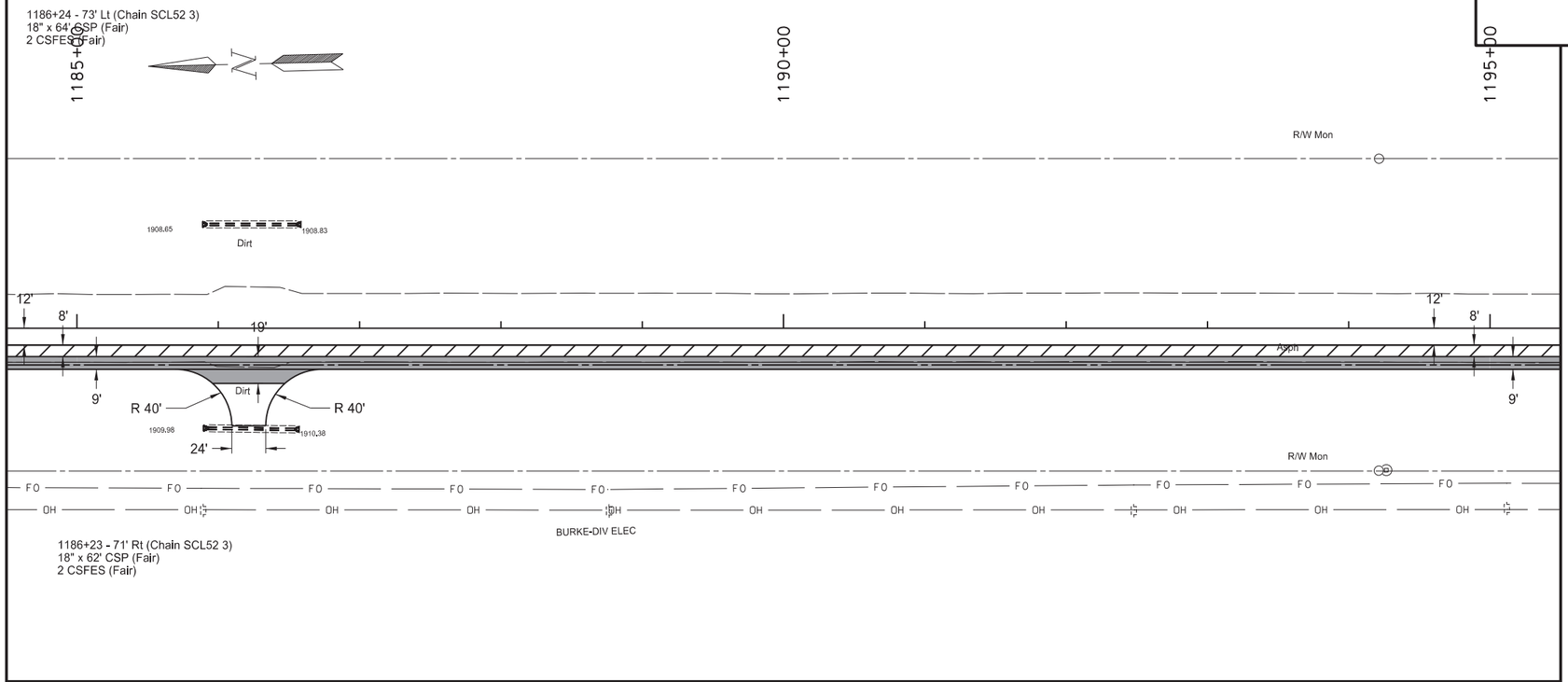
Paving

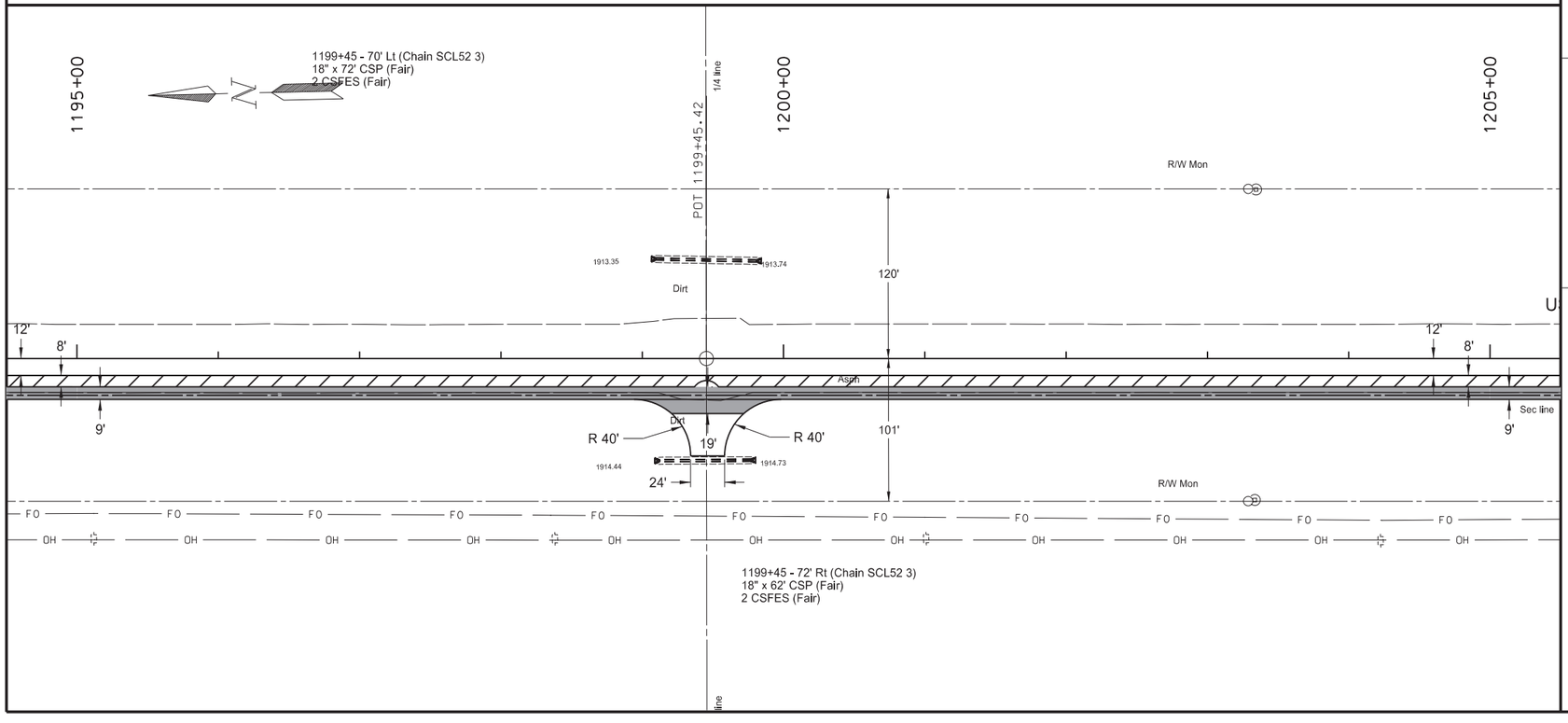
Passing Lane #4

Sta 1165+00 to Sta 1185+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 23 |



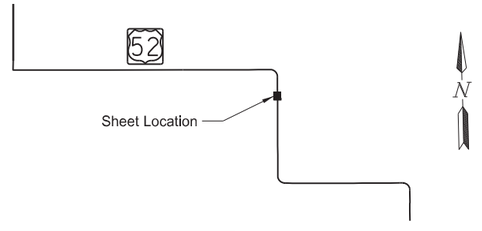




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1185+00 to 1205+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1185+00 to 1205+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1185+00 to 1205+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1185+00 to 1205+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1185+00 to 1205+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



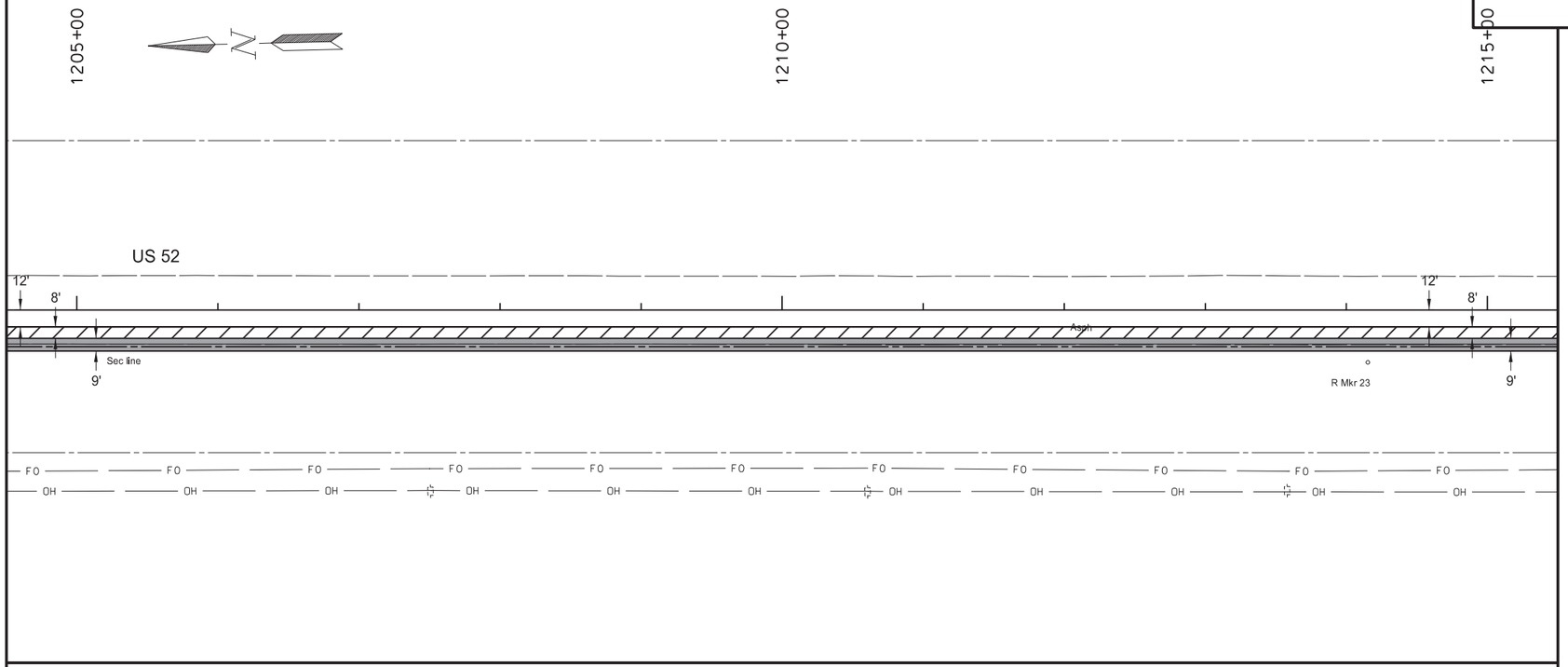

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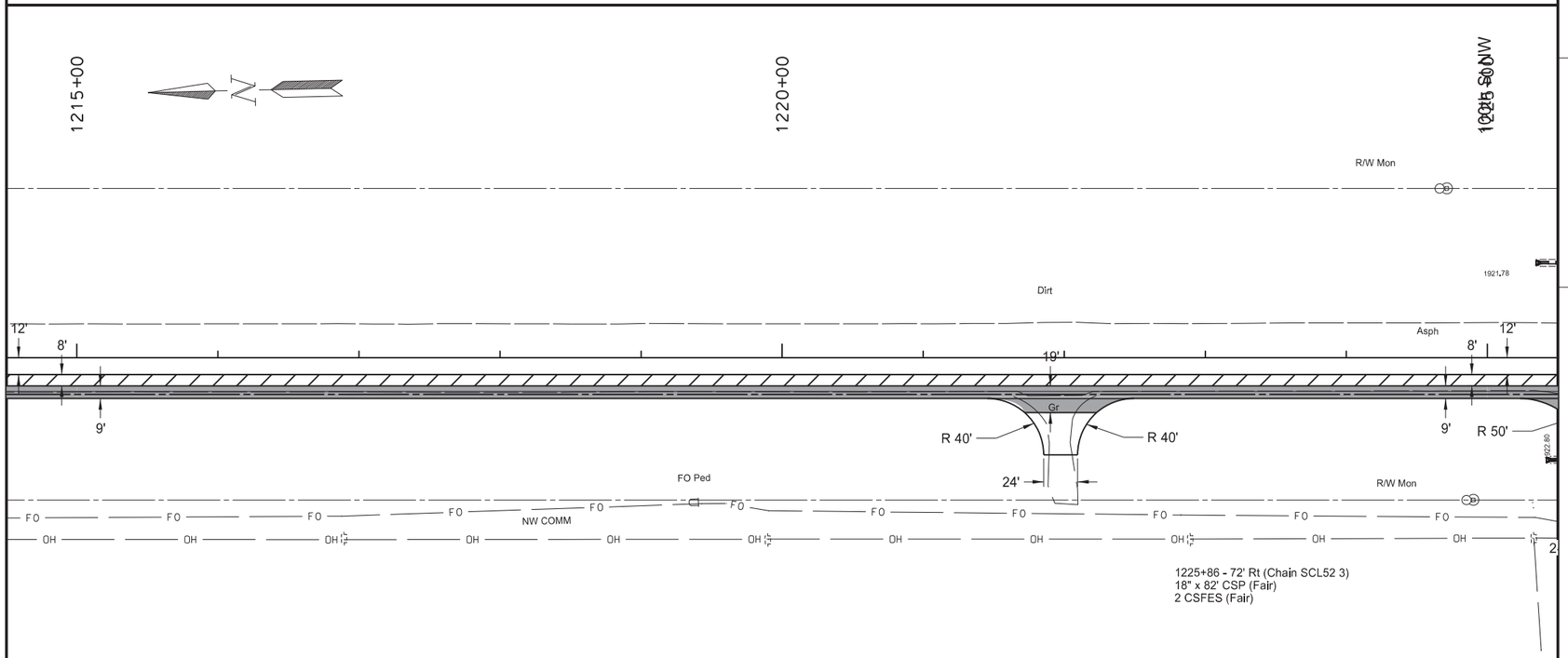
Paving

Passing Lane #4

Sta 1185+00 to Sta 1205+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 24 |



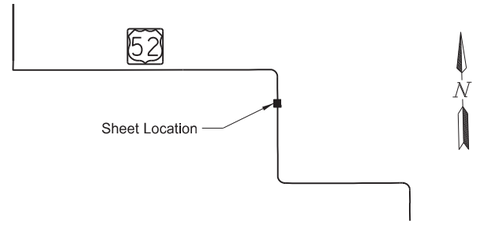




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1205+00 to 1225+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1205+00 to 1225+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1205+00 to 1225+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1205+00 to 1225+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1205+00 to 1225+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



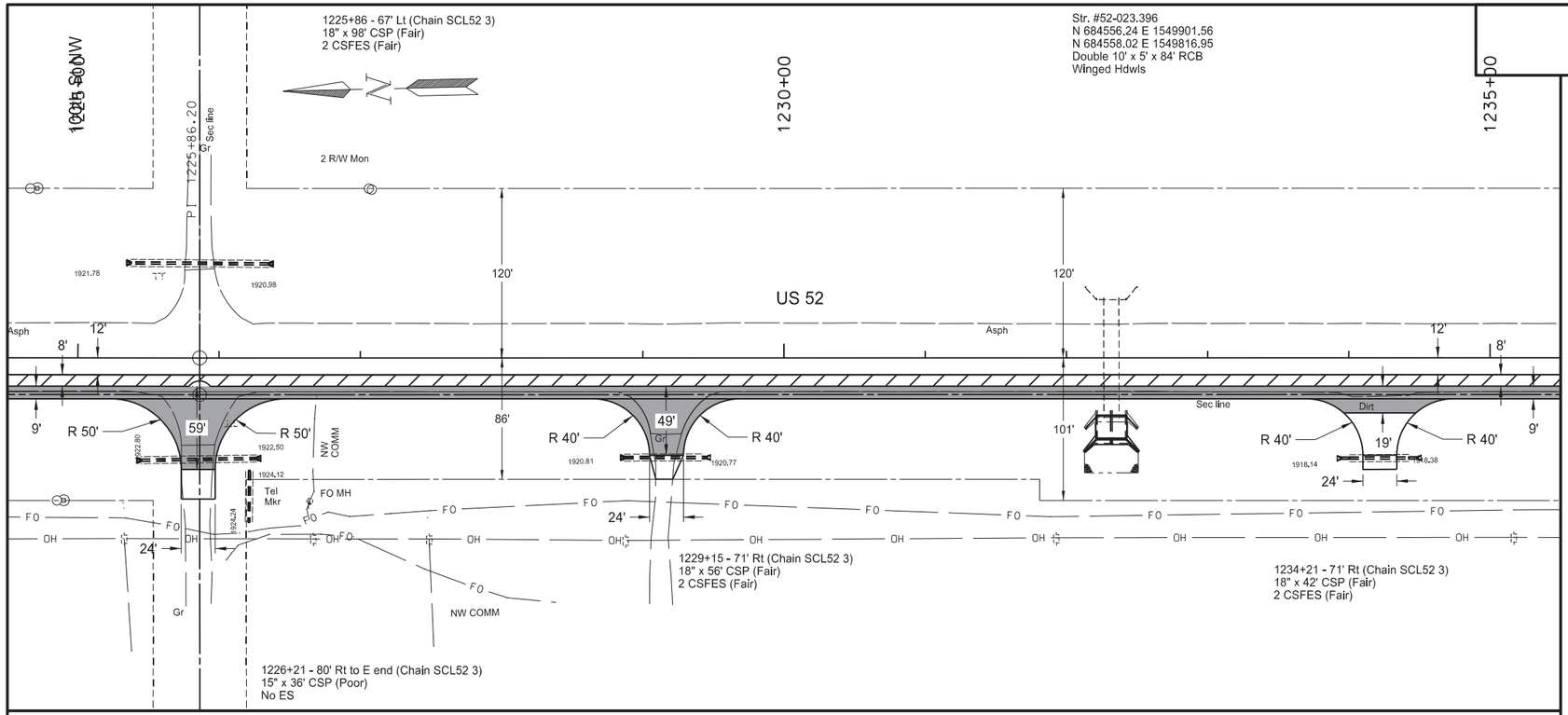

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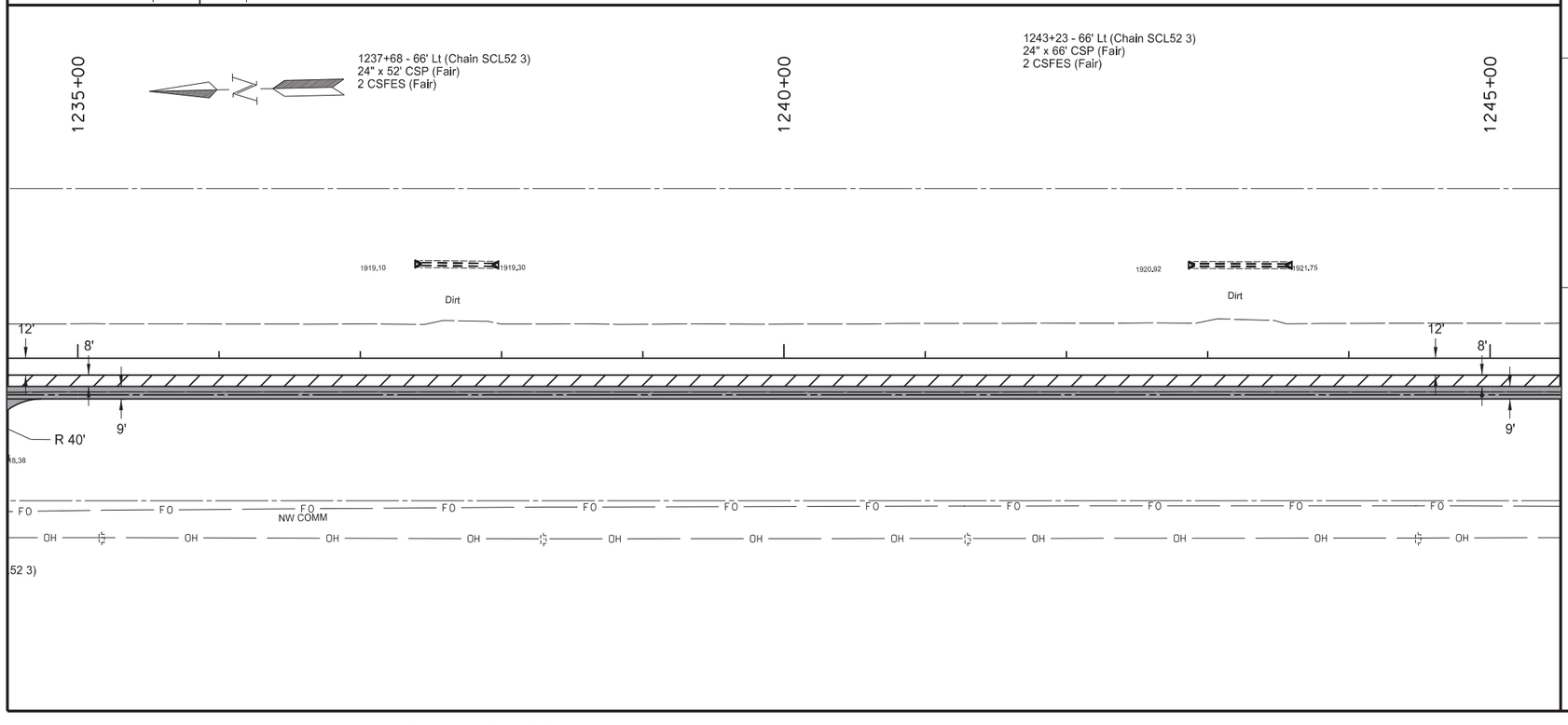
Paving

Passing Lane #4

Sta 1205+00 to Sta 1225+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 25 |



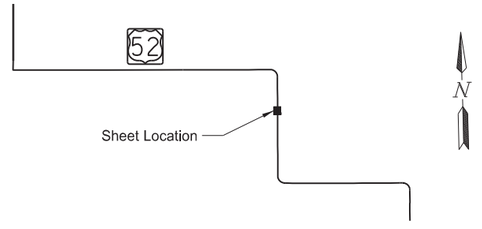




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1225+00to 1245+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1225+00 to 1245+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1225+00to 1245+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1225+00to 1245+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1225+00to 1245+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



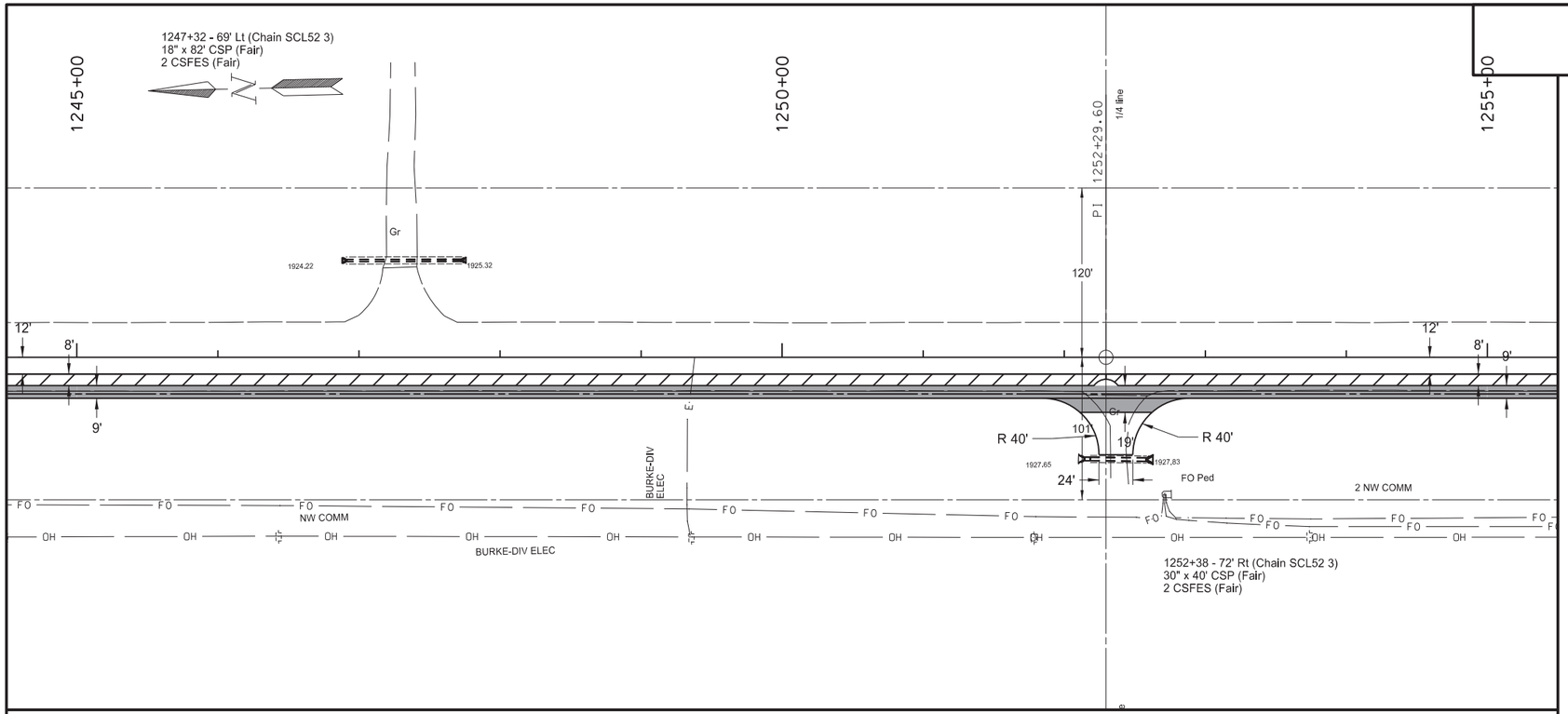

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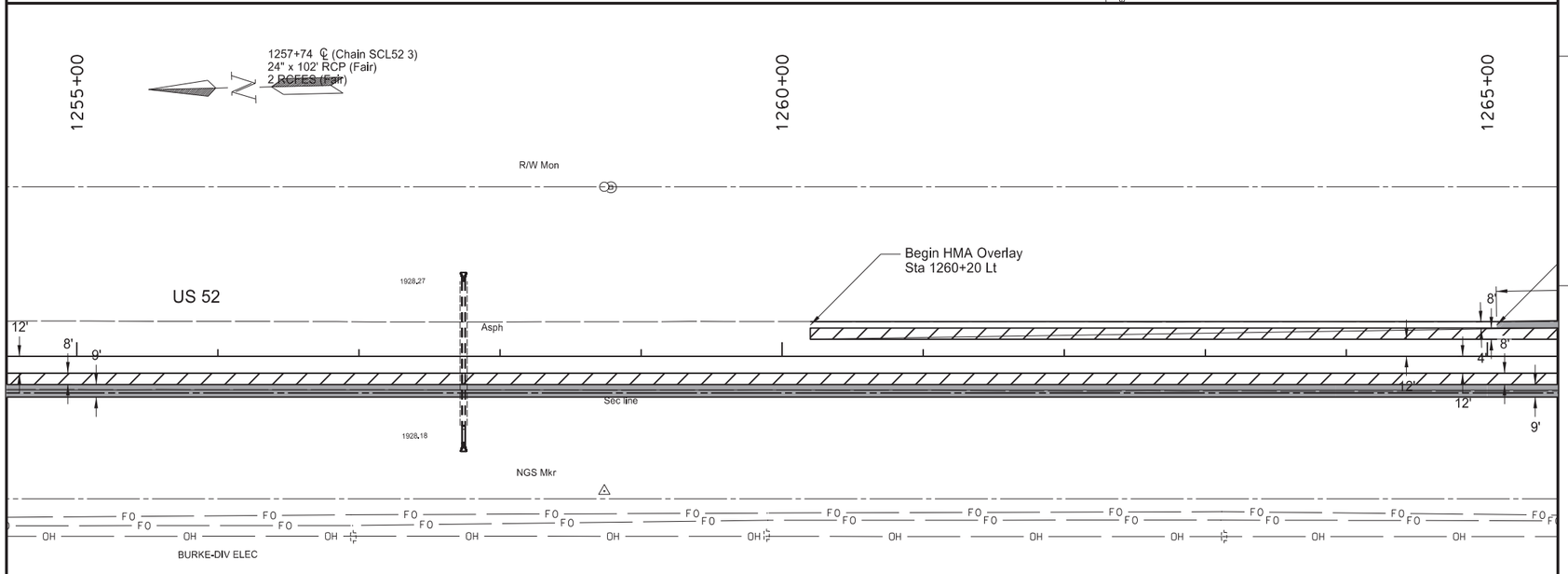
Paving

Passing Lane #4

Sta 1225+00 to Sta 1245+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 26 |



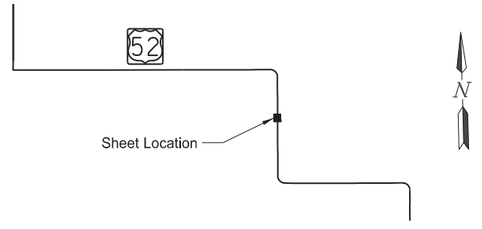




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1245+00 to 1265+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1245+00 to 1265+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1245+00 to 1265+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1245+00 to 1265+00 RT | 1159 | TON |
| | | Sta 1260+20 to 1265+00 LT | 52 | |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1245+00 to 1265+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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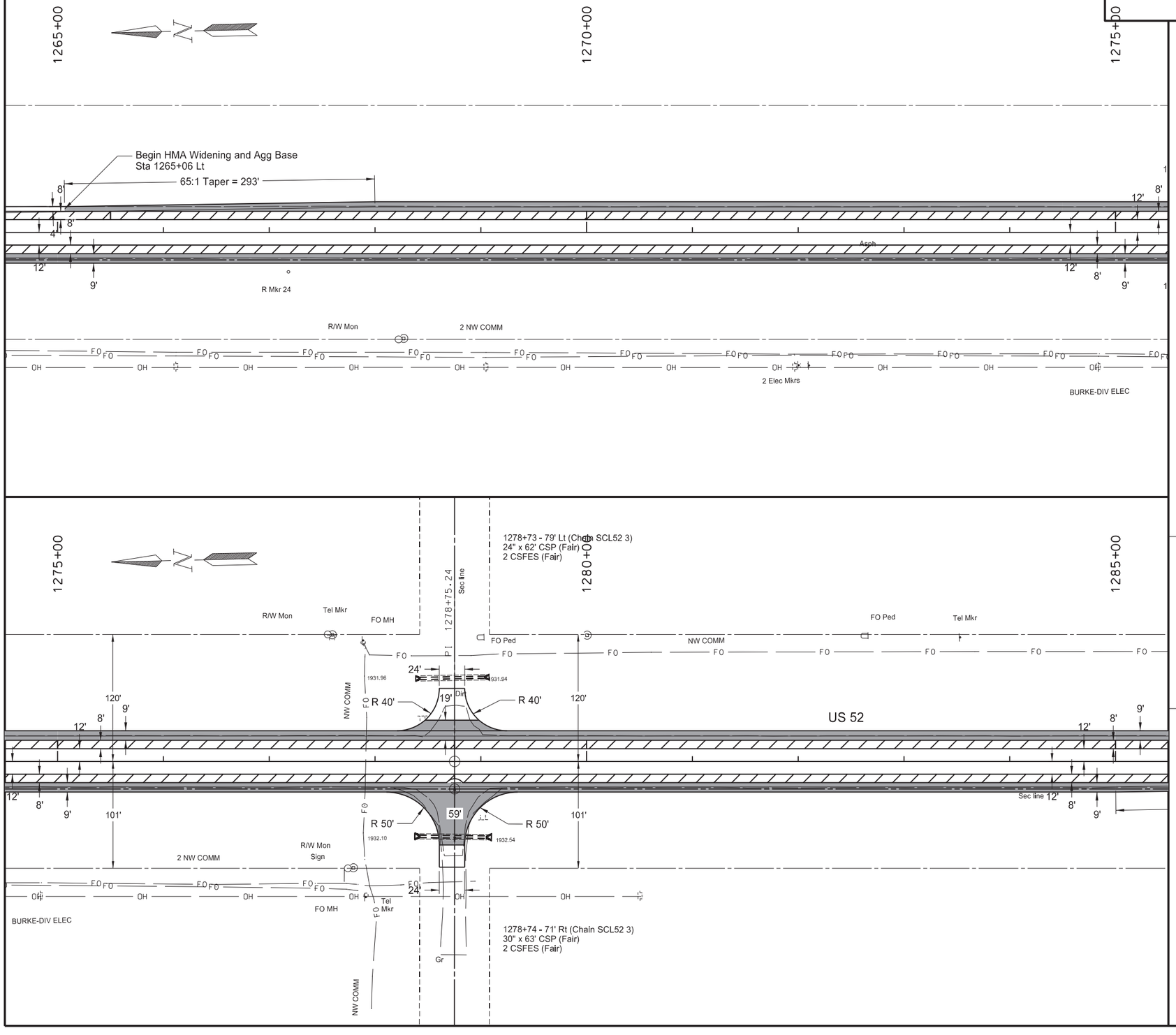
Paving

Passing Lane #4

Sta 1245+00 to Sta 1265+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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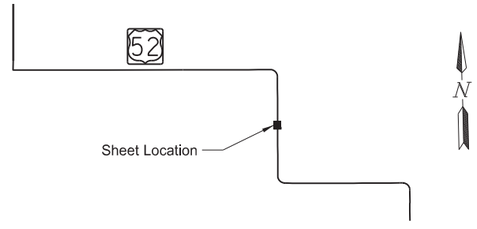



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1265+00 to 1285+00 RT | 3722 | TON |
| | | Sta 1265+06 to 1285+00 LT | 3711 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1265+00 to 1285+00 RT - Two Applications | 327 | GAL |
| | | Sta 1265+00 to 1285+00 LT - Two Applications | 326 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1265+00 to 1285+00 RT | 706 | GAL |
| | | Sta 1265+00 to 1285+00 LT | 703 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1265+00 to 1285+00 RT | 1159 | TON |
| | | Sta 1265+00 to 1285+00 LT | 1156 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1265+00 to 1285+00 RT | 69.5 | TON |
| | | Sta 1265+00 to 1285+00 LT | 69.4 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



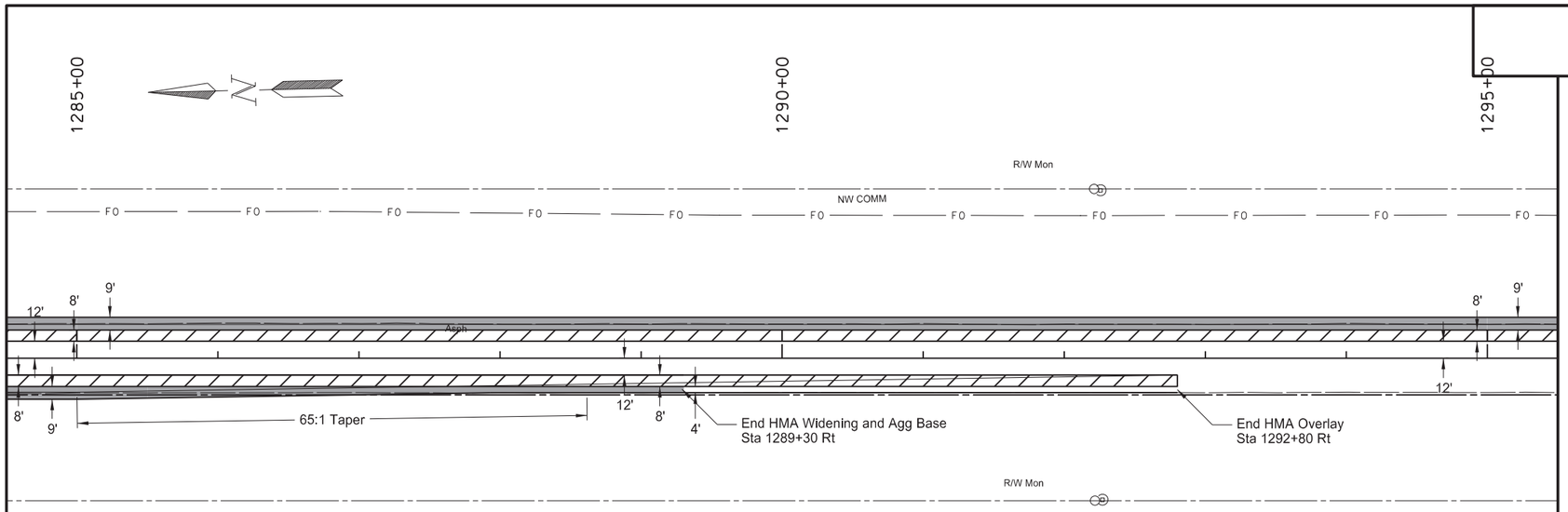

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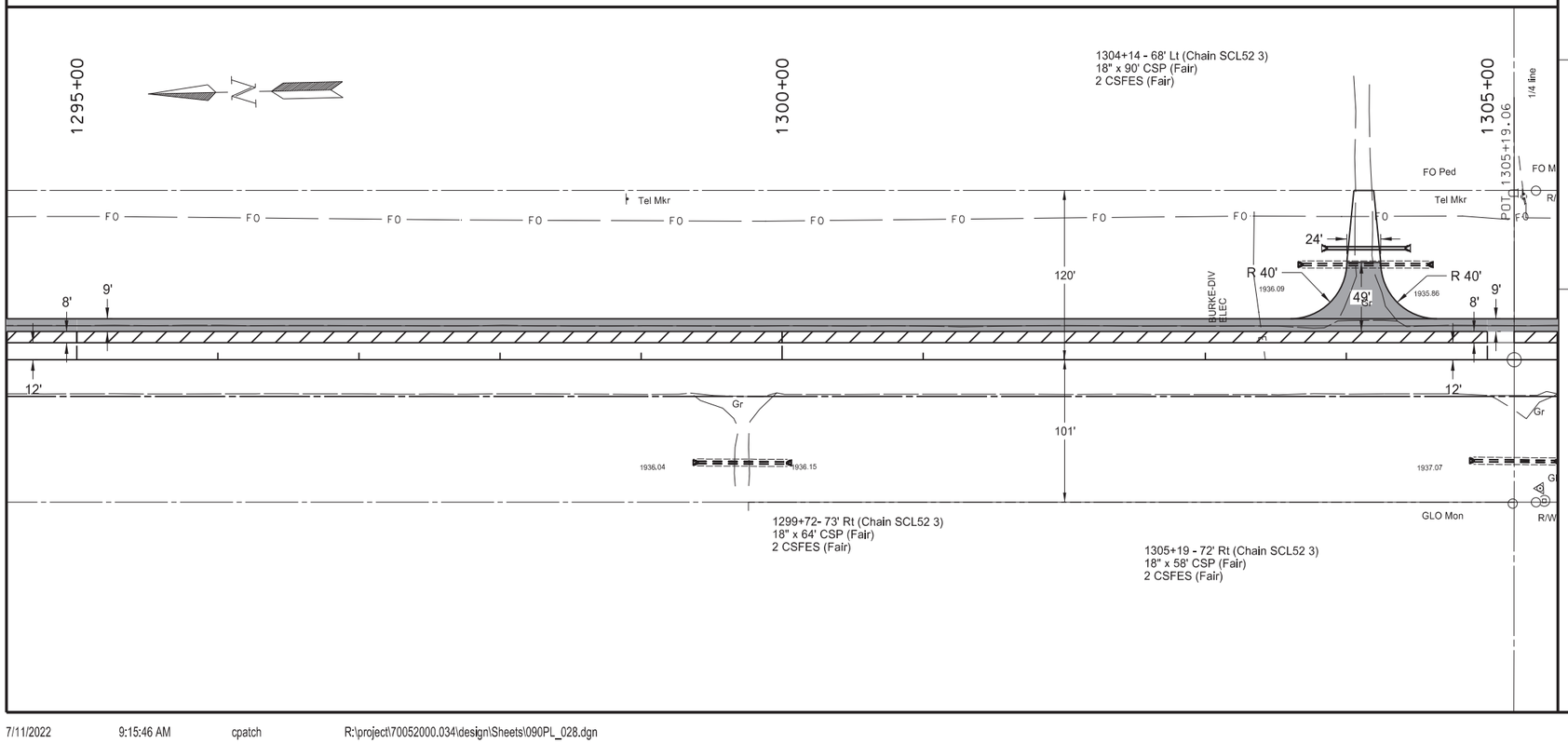
Paving

Passing Lane #4 & #5

Sta 1265+00 to Sta 1285+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 28 |



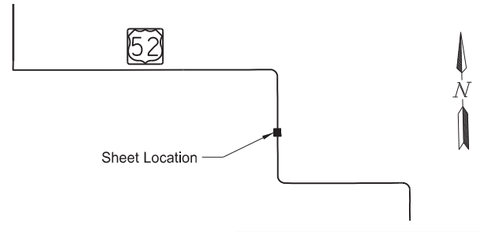




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1285+00 to 1289+30 RT | 800 | TON |
| | | Sta 1285+00 to 1305+00 LT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1285+00 to 1292+80 RT - Two Applications | 128 | GAL |
| | | Sta 1285+00 to 1305+00 LT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1285+00 to 1292+80 RT | 275 | GAL |
| | | Sta 1285+00 to 1305+00 LT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1285+00 to 1292+80 RT | 452 | TON |
| | | Sta 1285+00 to 1305+00 LT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1285+00 to 1292+80 RT | 27.1 | TON |
| | | Sta 1285+00 to 1305+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



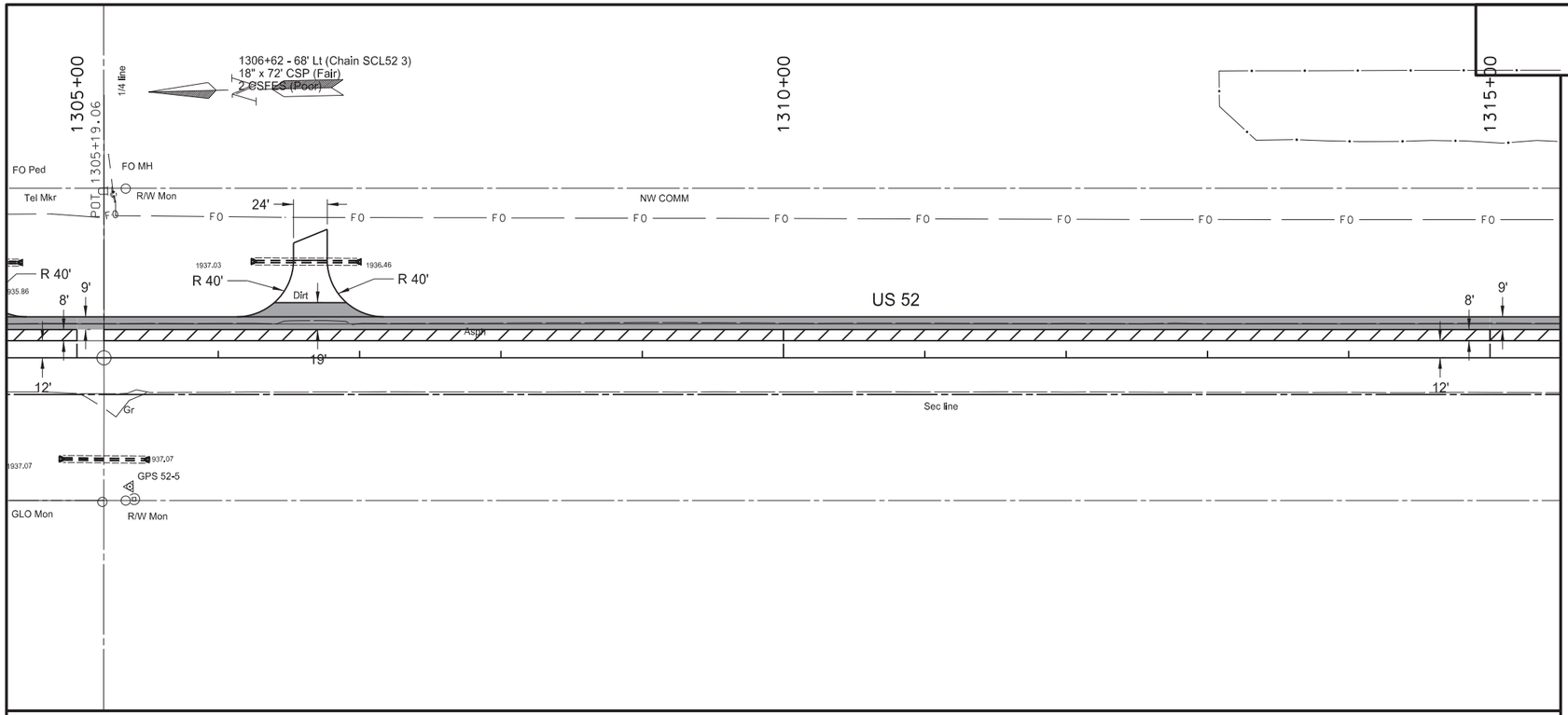

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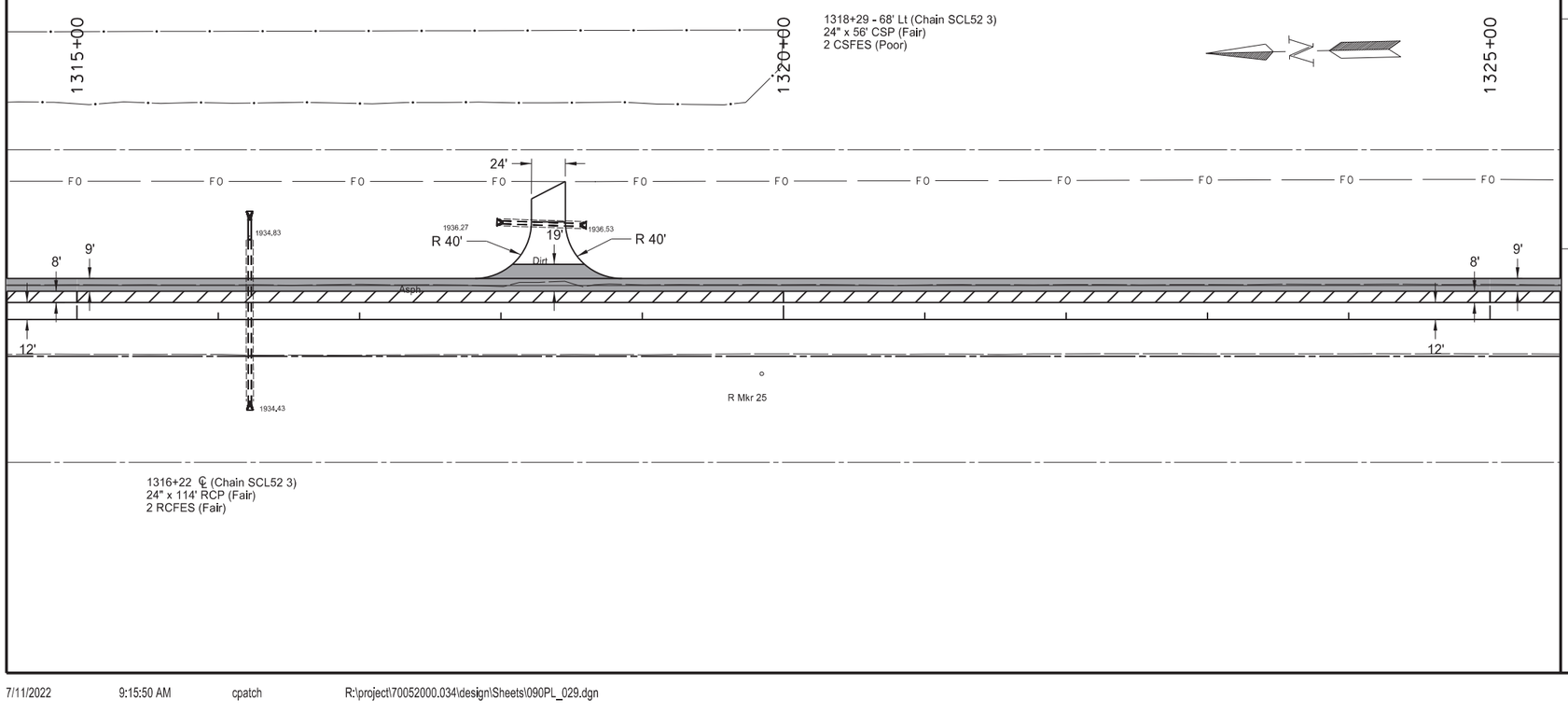
Paving

Passing Lane #4 & #5

Sta 1285+00 to Sta 1305+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 29 |



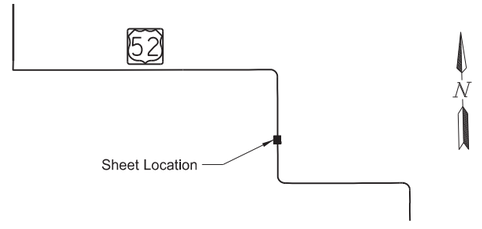




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1305+00 to 1325+00 LT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1305+00 to 1325+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1305+00 to 1325+00 LT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1305+00 to 1325+00 LT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1305+00 to 1325+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



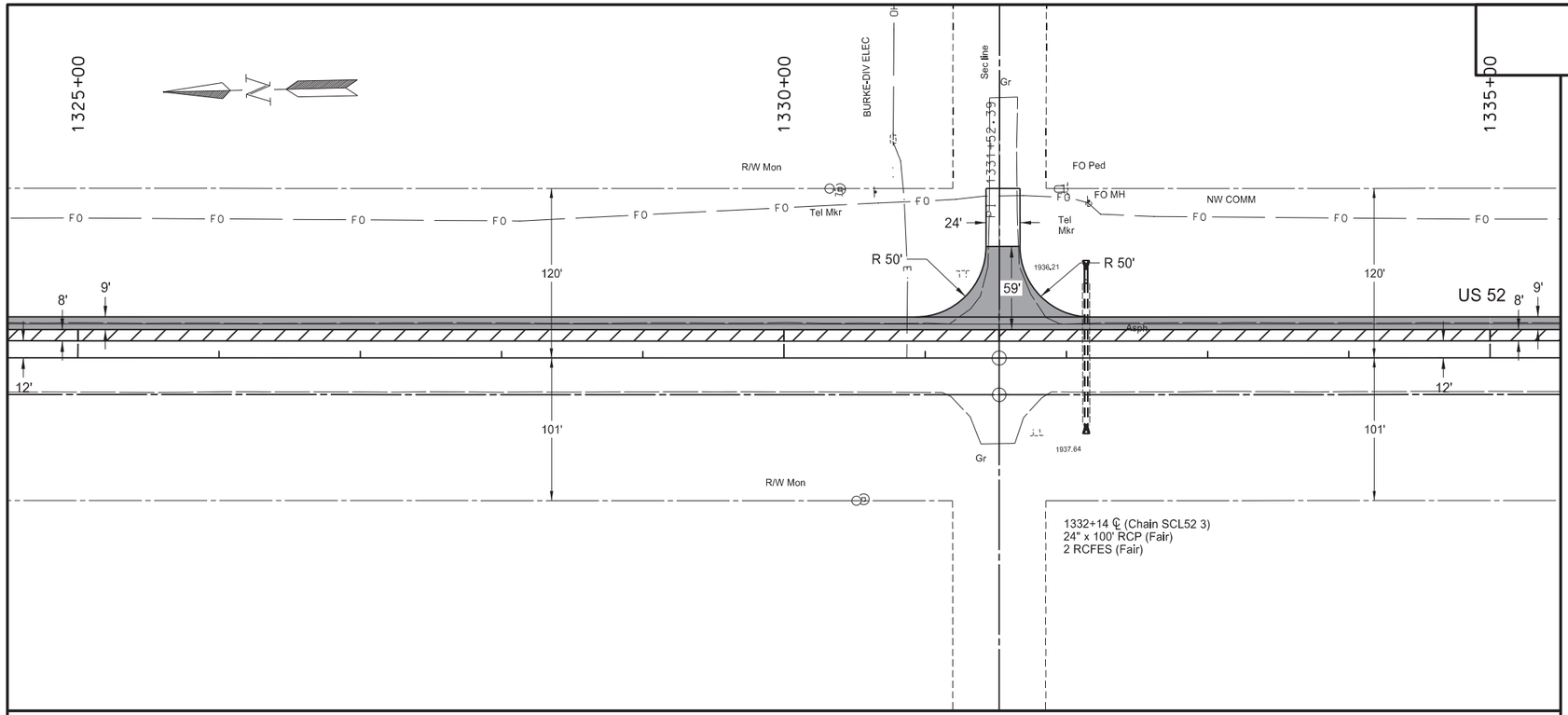

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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

Paving

Passing Lane #5

Sta 1305+00 to Sta 1325+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 30 |

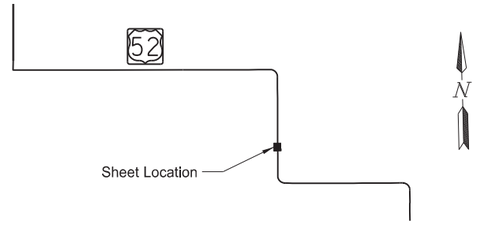



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1325+00 to 1345+00 LT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1325+00 to 1345+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1325+00 to 1345+00 LT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1325+00 to 1345+00 LT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1325+00 to 1345+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



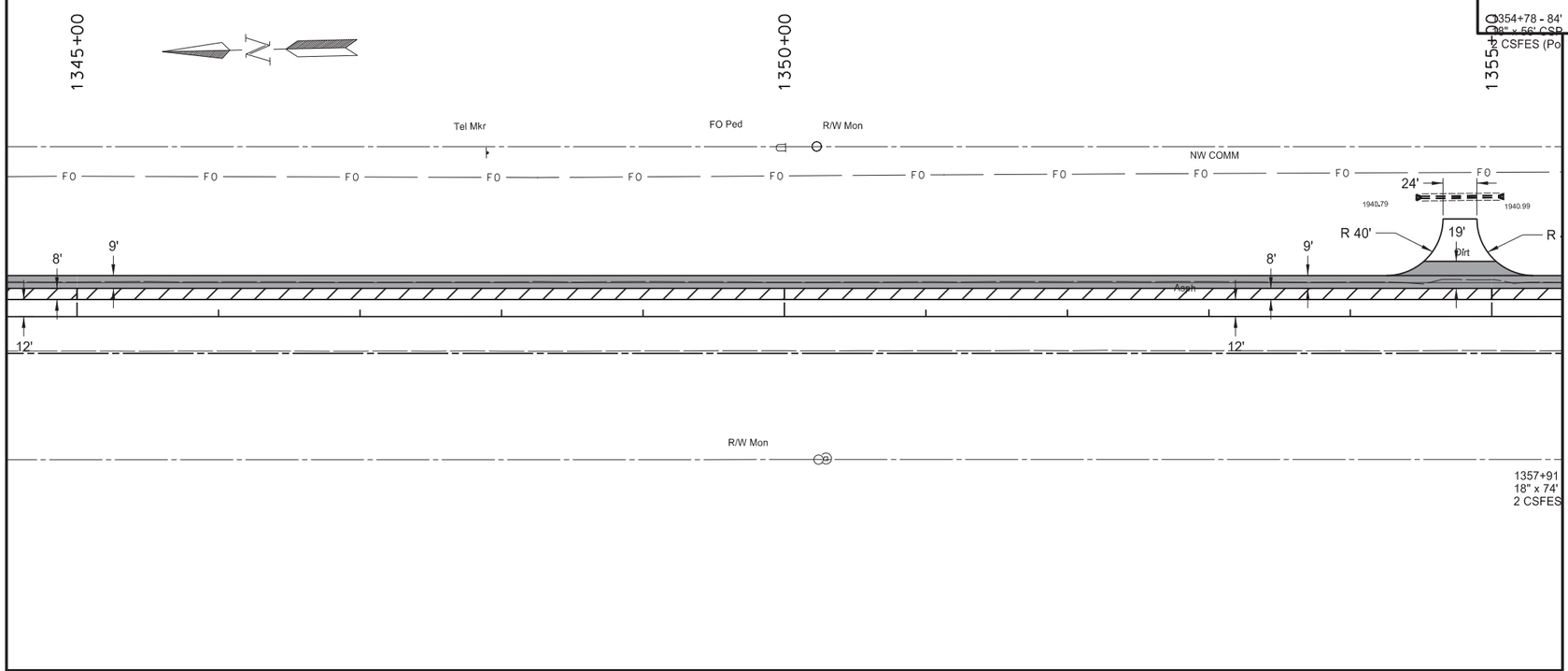

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NORTH DAKOTA
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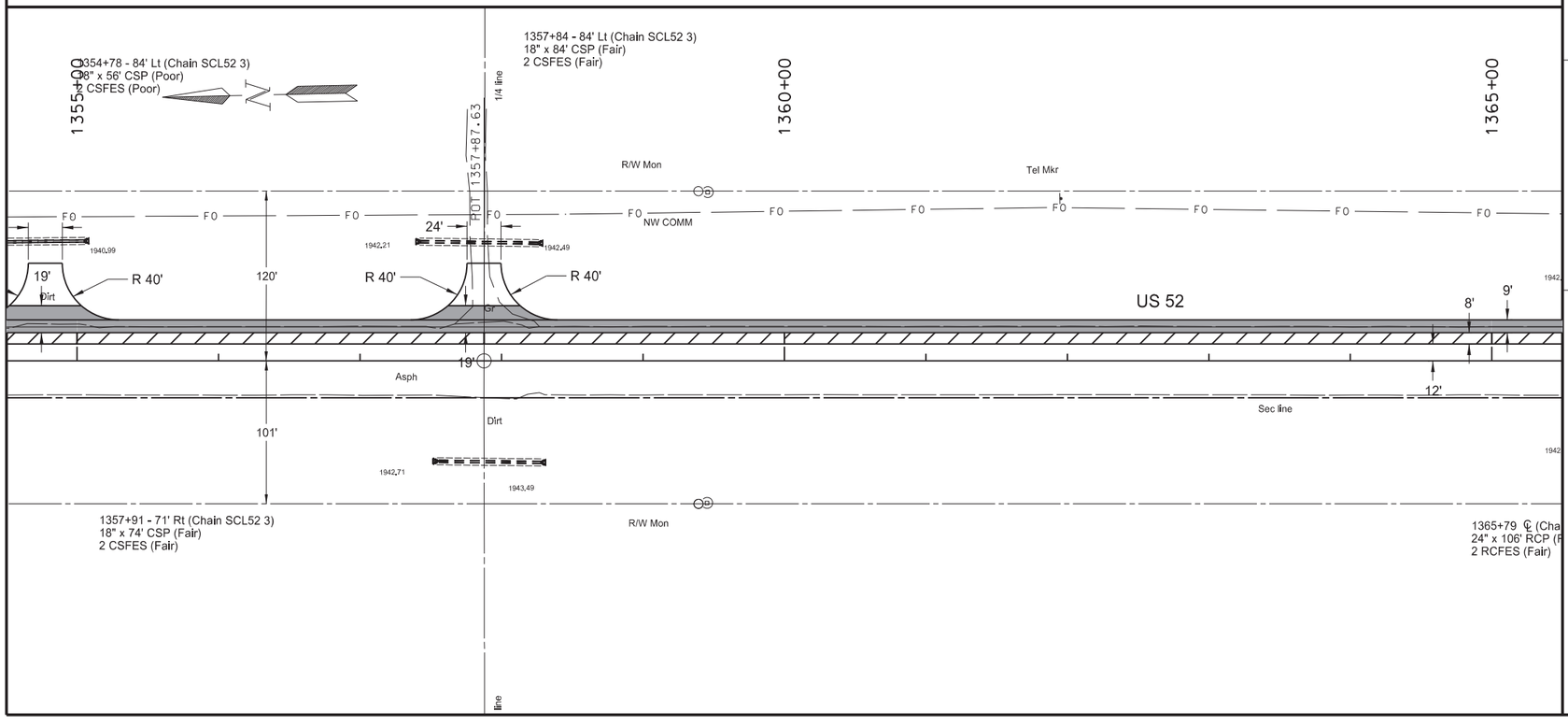
Paving

Passing Lane #5

Sta 1325+00 to Sta 1345+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 31 |



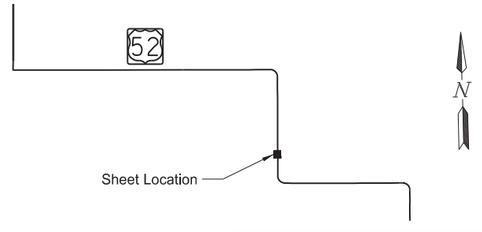




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1345+00 to 1365+00 LT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1345+00 to 1365+00 LT - Two Applications | 416 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1345+00 to 1365+00 LT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1345+00 to 1365+00 LT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1345+00 to 1365+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



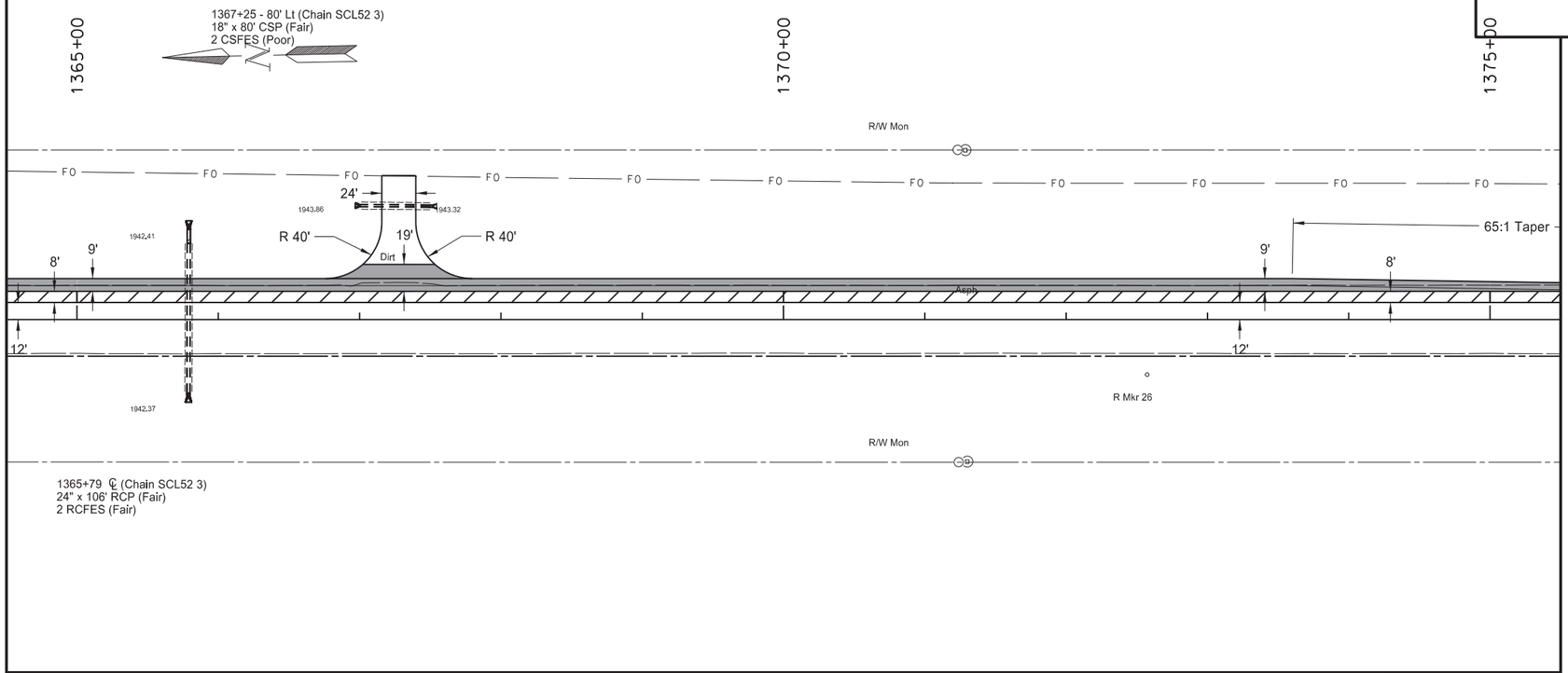

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NORTH DAKOTA
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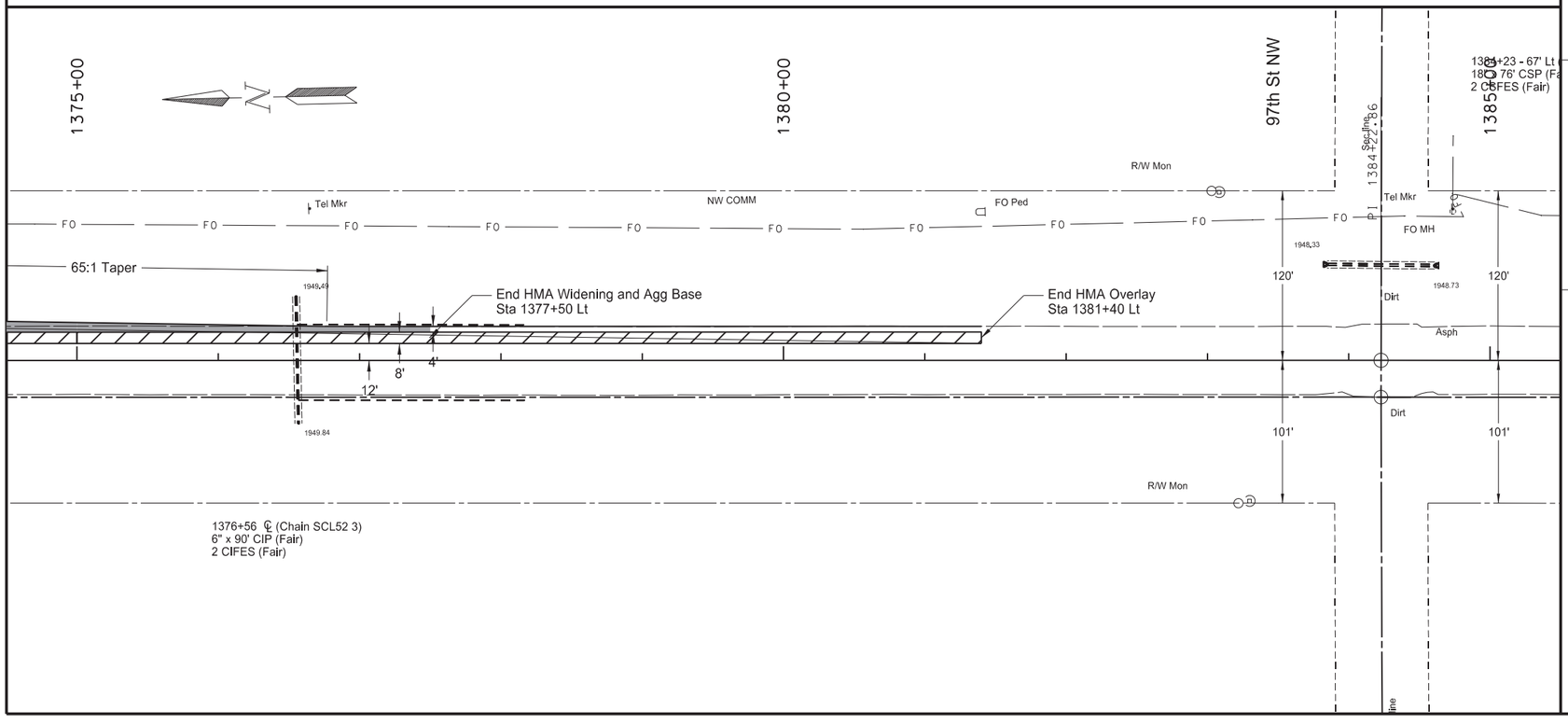
Paving

Passing Lane #5

Sta 1345+00 to Sta 1365+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 32 |



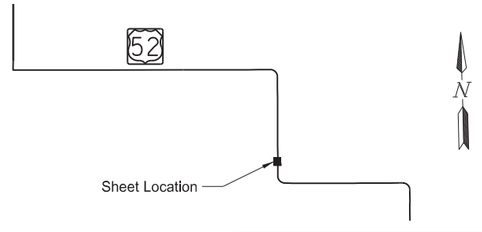




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1365+00 to 1377+50 LT | 2326 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1365+00 to 1381+40 LT - Two Applications | 341 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1365+00 to 1381+40 LT | 579 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1365+00 to 1371+40 LT | 724 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1365+00 to 1381+40 LT | 43.4 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



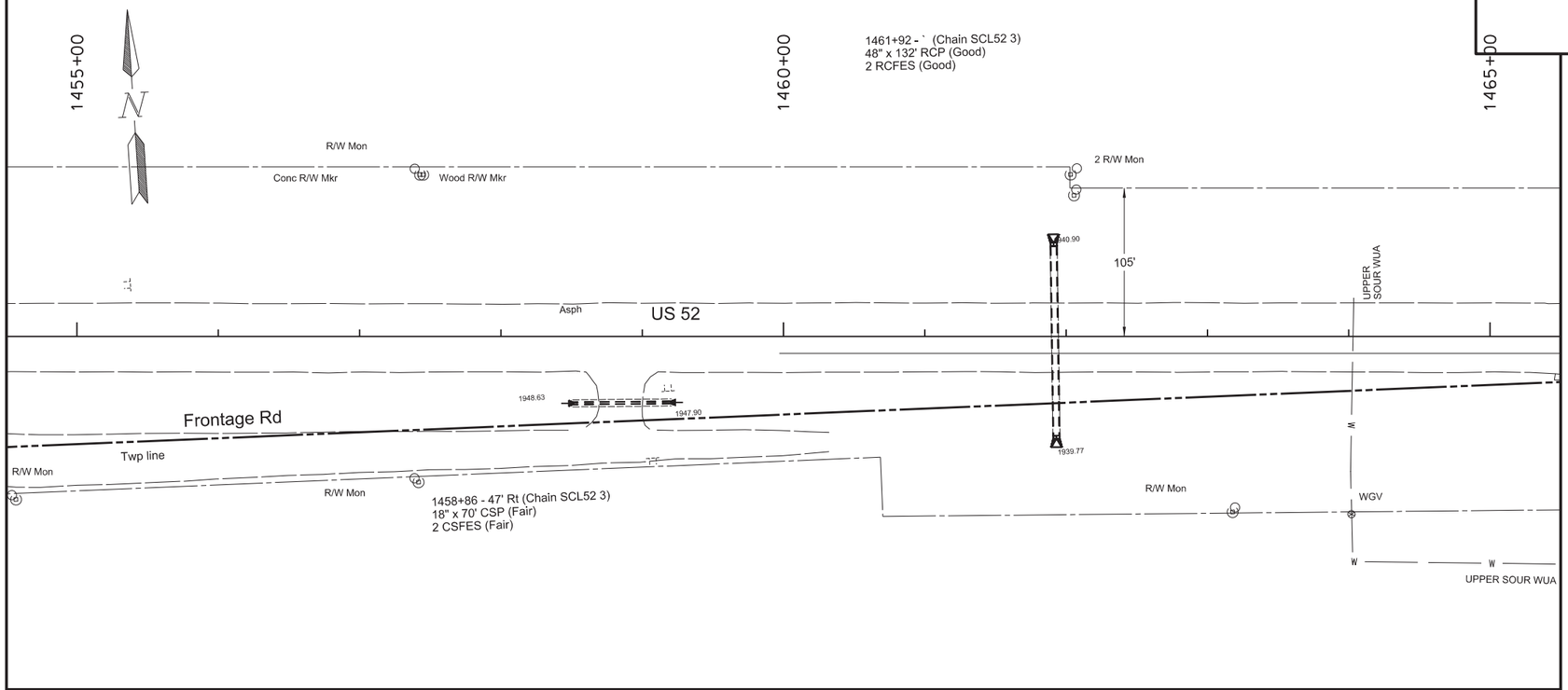

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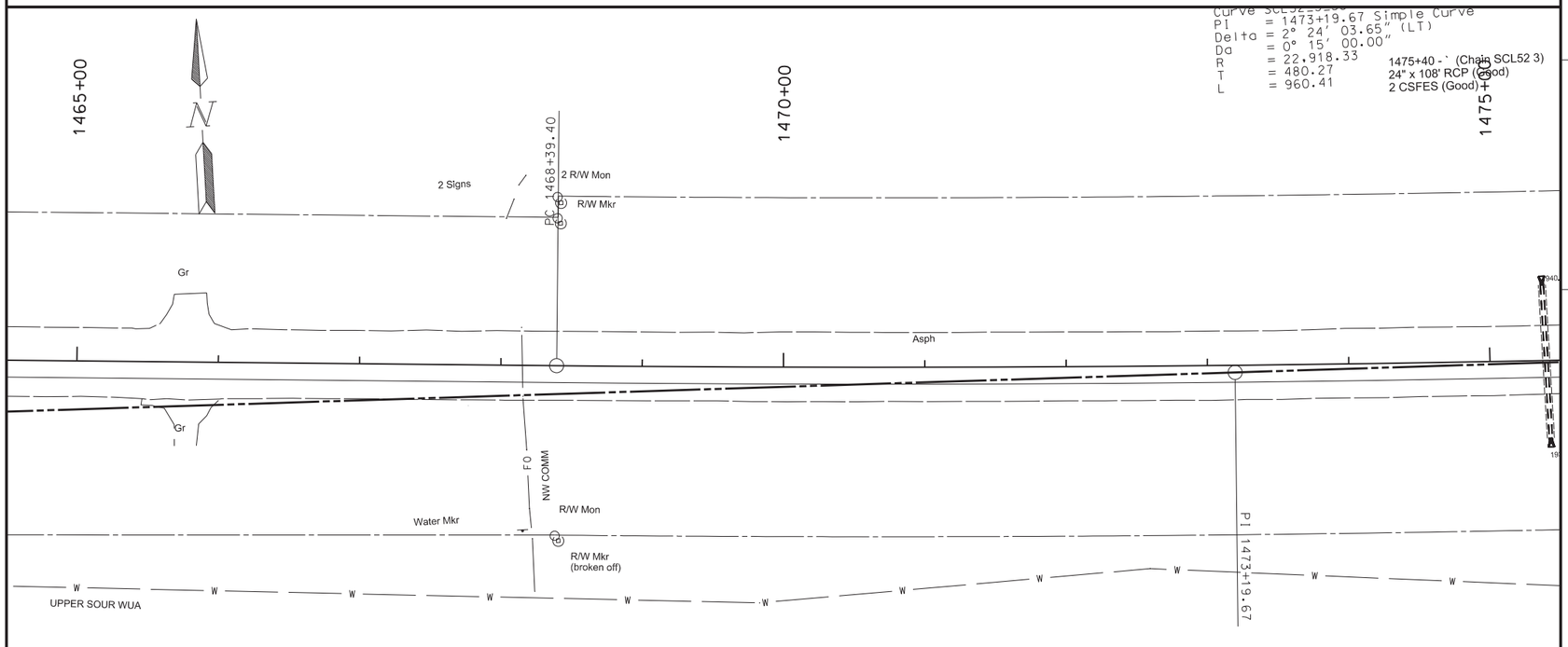
Paving

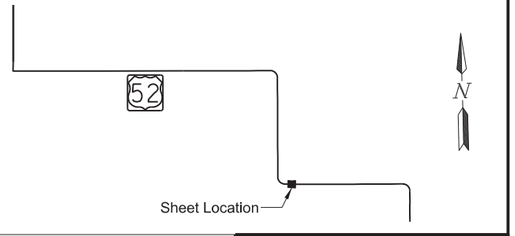
Passing Lane #5

Sta 1365+00 to Sta 1385+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 33 |




Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area

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Paving

Passing Lane #6

Sta 1455+00 to Sta 1475+00

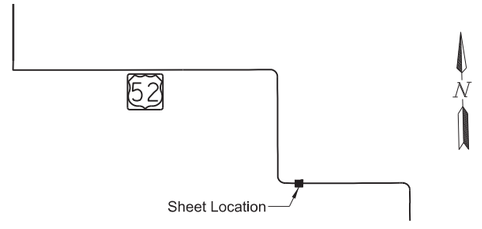
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 34 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1490+00 to 1495+00 RT - Two Applications | 31 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1490+00 to 1495+00 RT | 72 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1490+00 to 1495+00 RT | 4.3 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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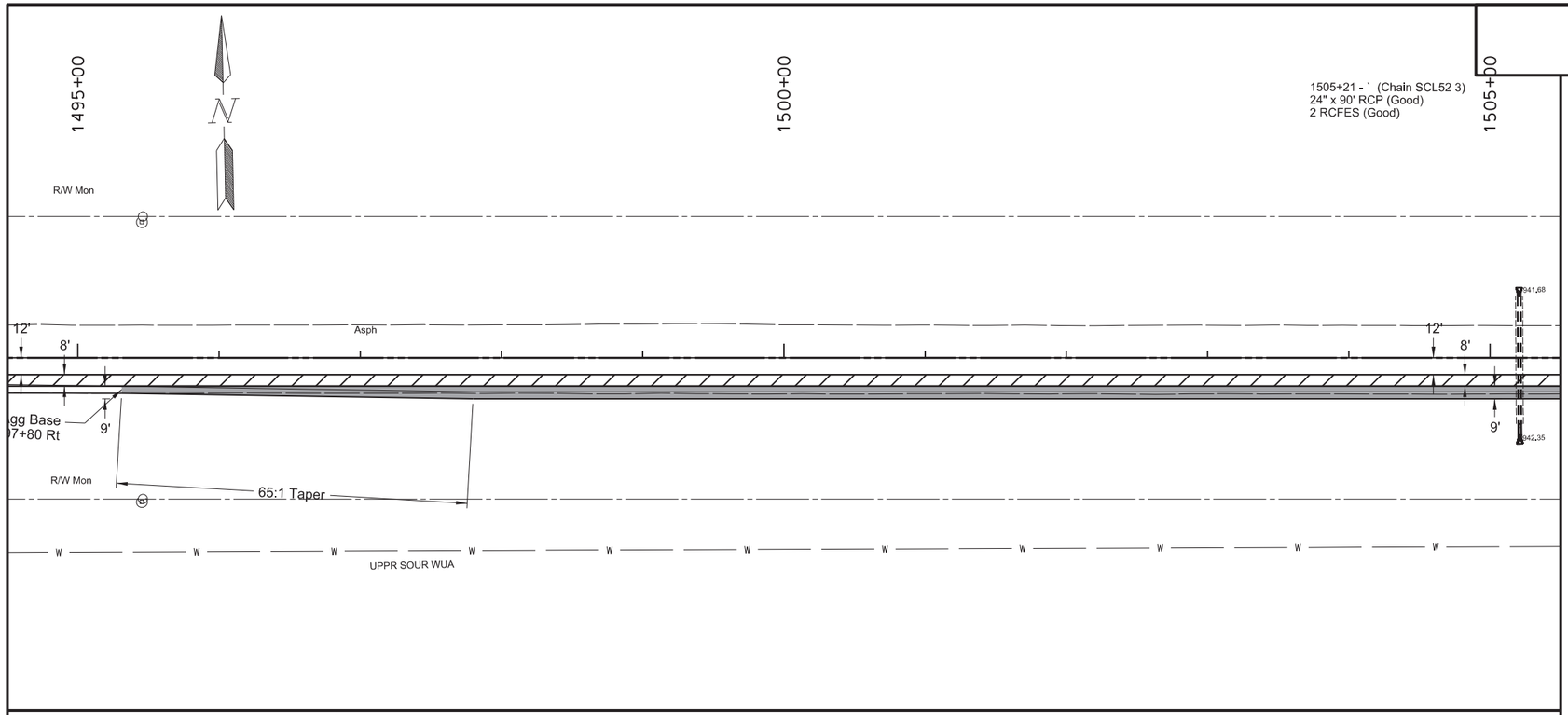
Paving

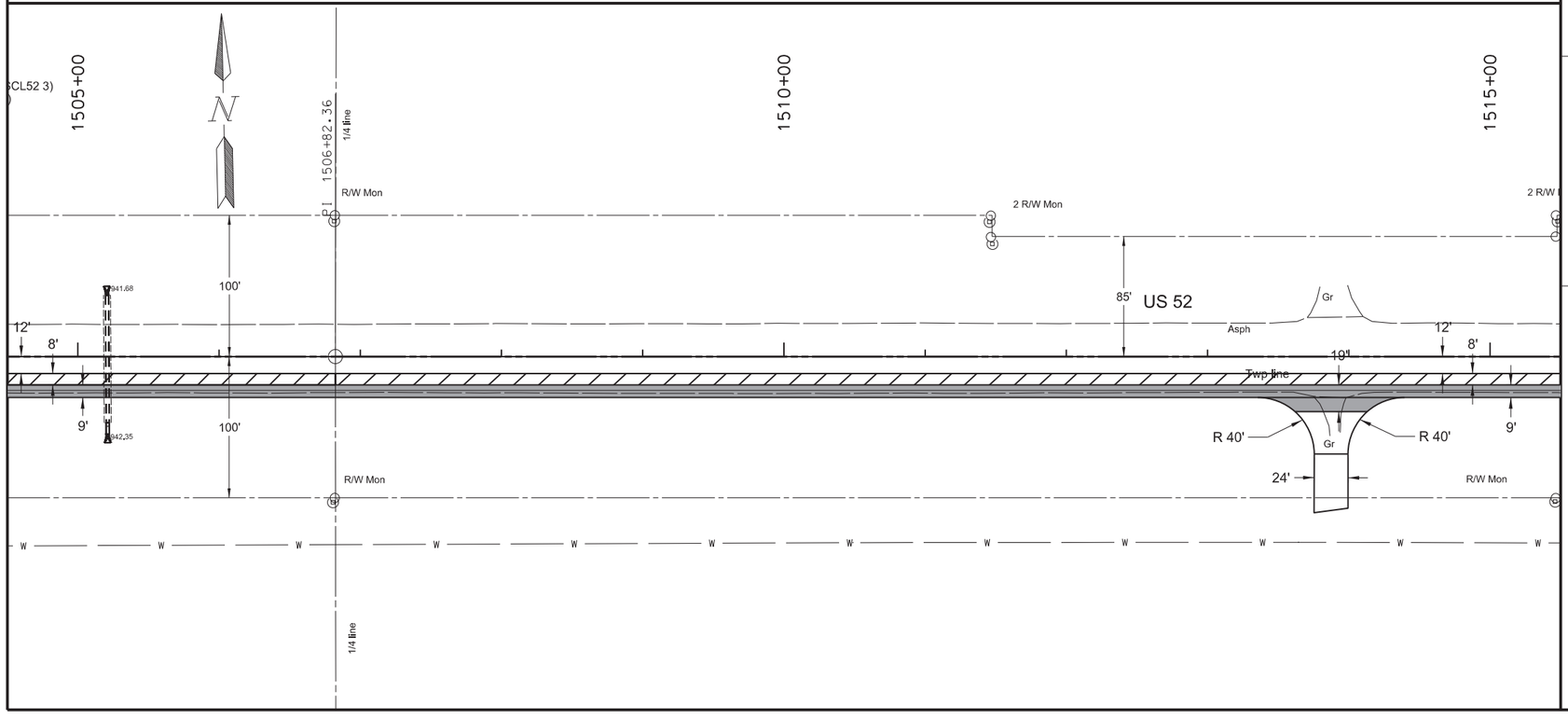
Passing Lane #6

Sta 1475+00 to Sta 1495+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 35 |



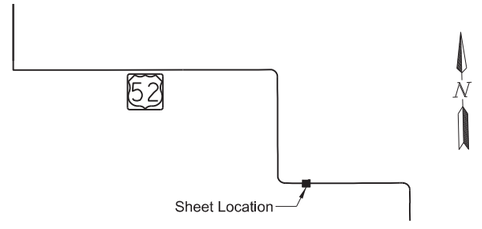




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1497+80 to 1515+00 RT | 3201 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1497+80 to 1515+00 RT - Two Applications | 298 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1497+80 to 1515+00 RT | 607 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1495+00 to 1515+00 RT | 1037 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1495+00 to 1515+00 RT | 62.2 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



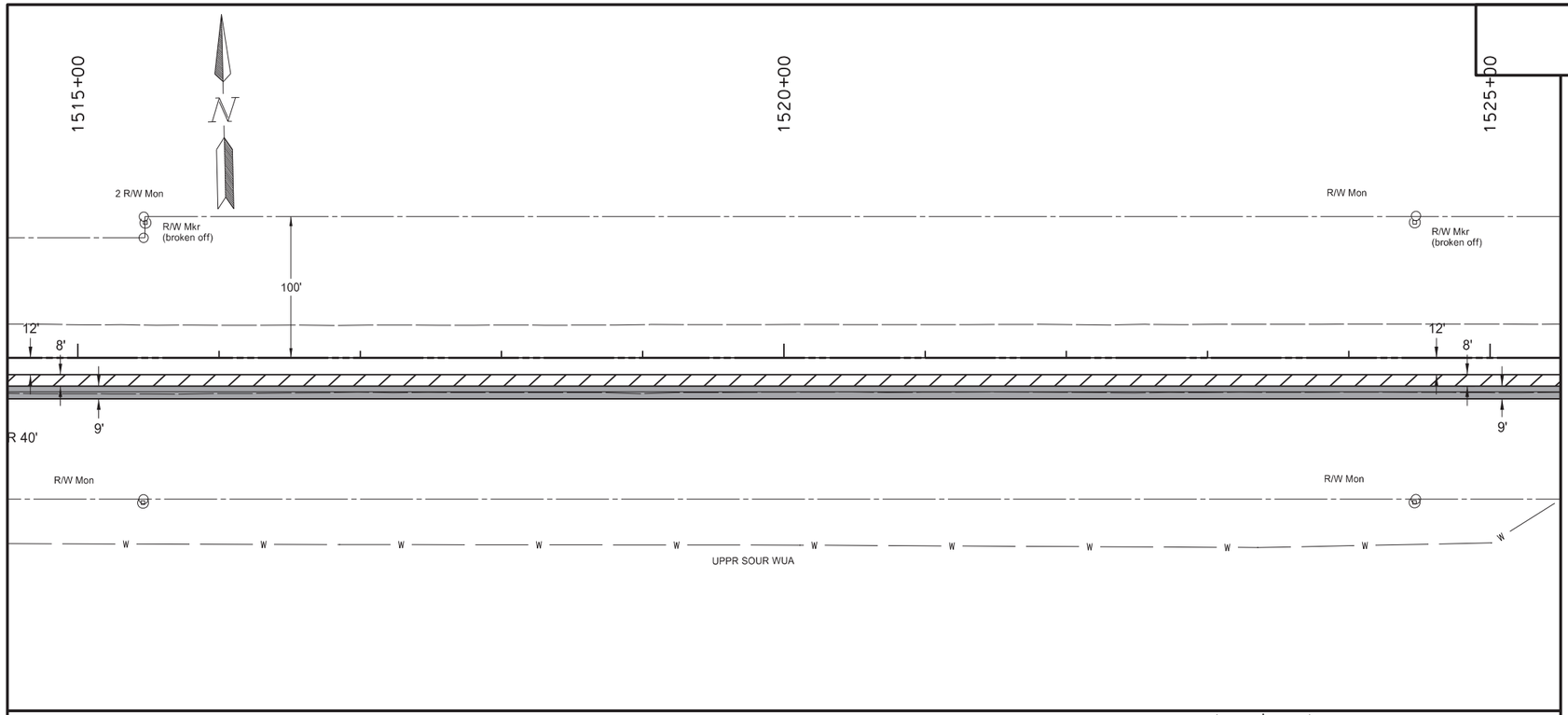

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NORTH DAKOTA
09/01/23

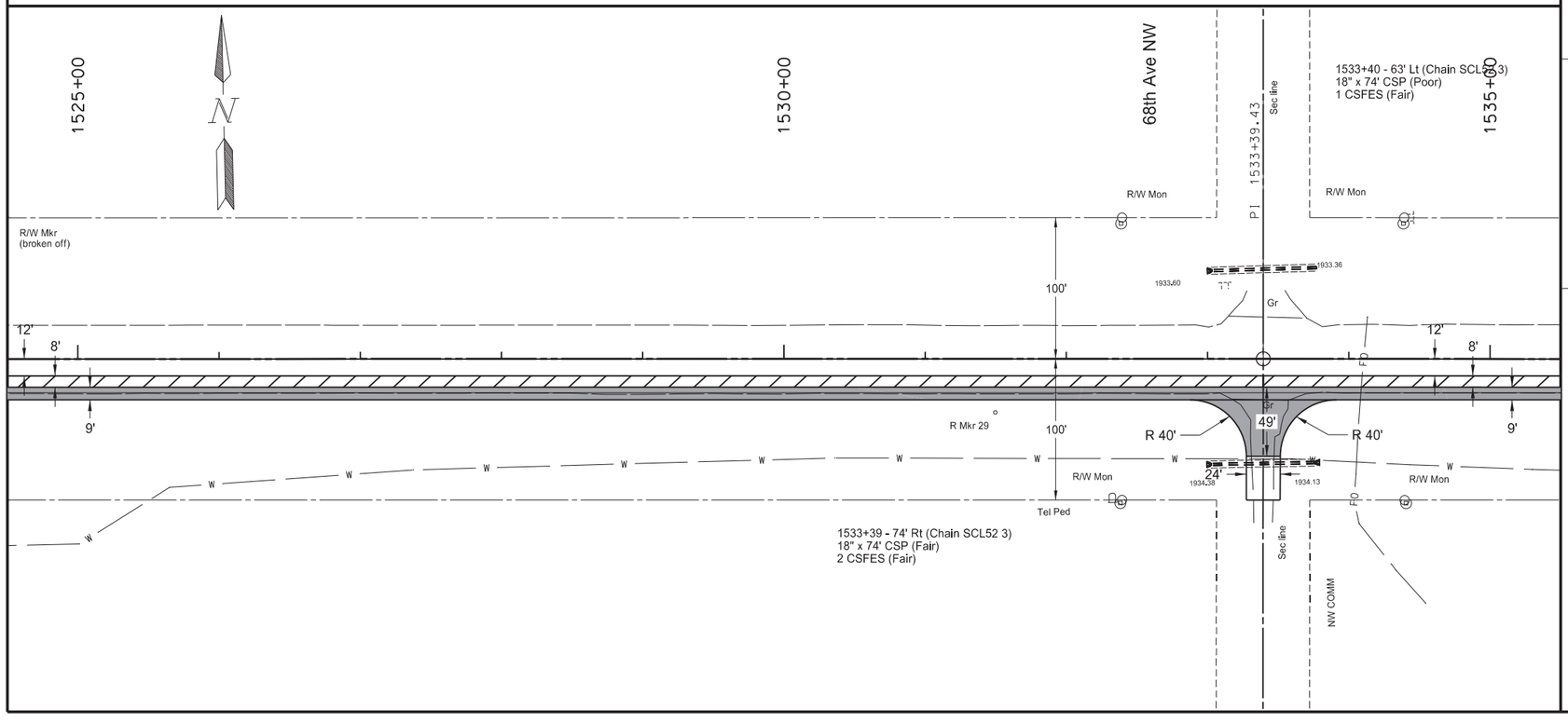
Paving

Passing Lane #6

Sta 1495+00 to Sta 1515+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 36 |



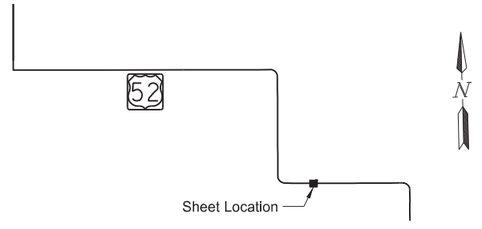




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1515+00 to 1535+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1515+00 to 1535+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1515+00 to 1535+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1515+00 to 1535+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1515+00 to 1535+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area







09/01/23

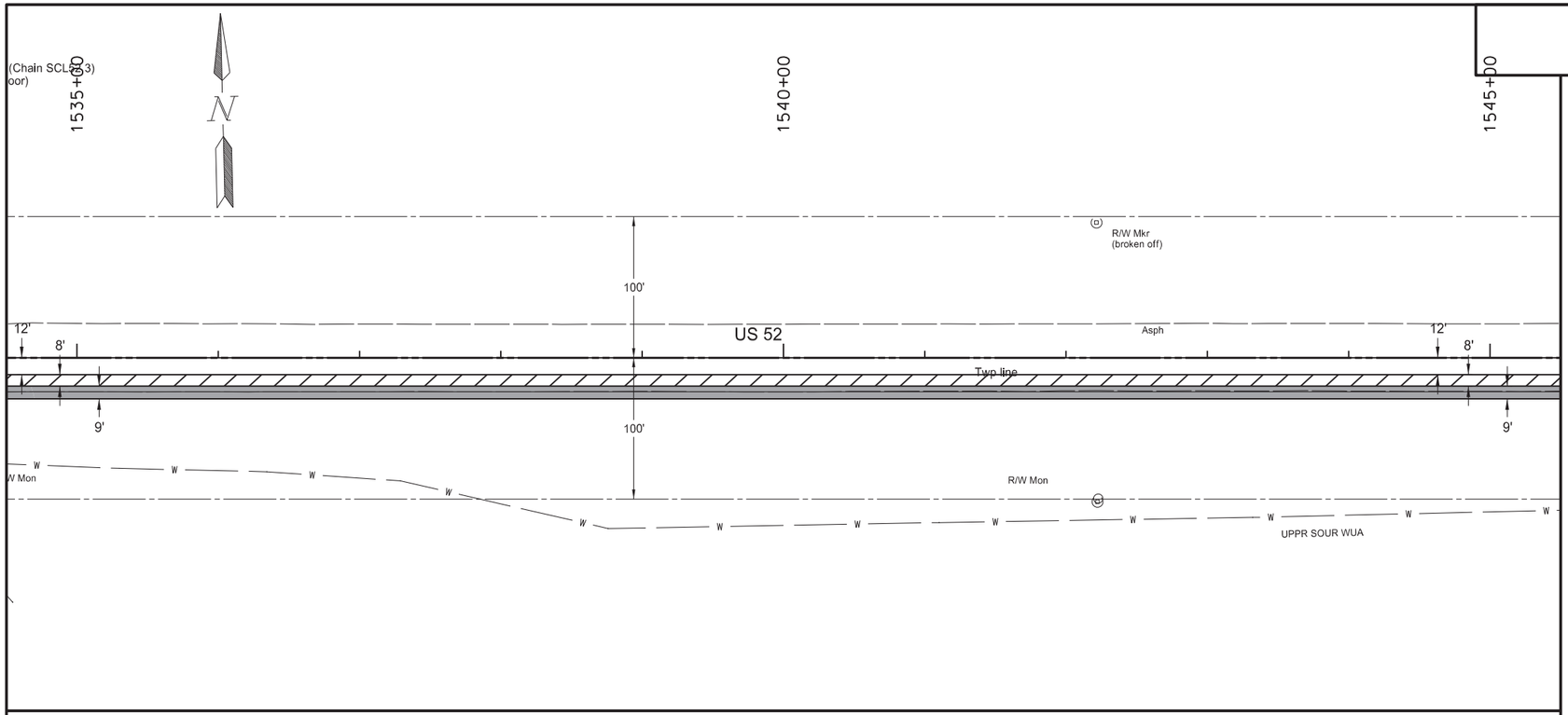
Paving

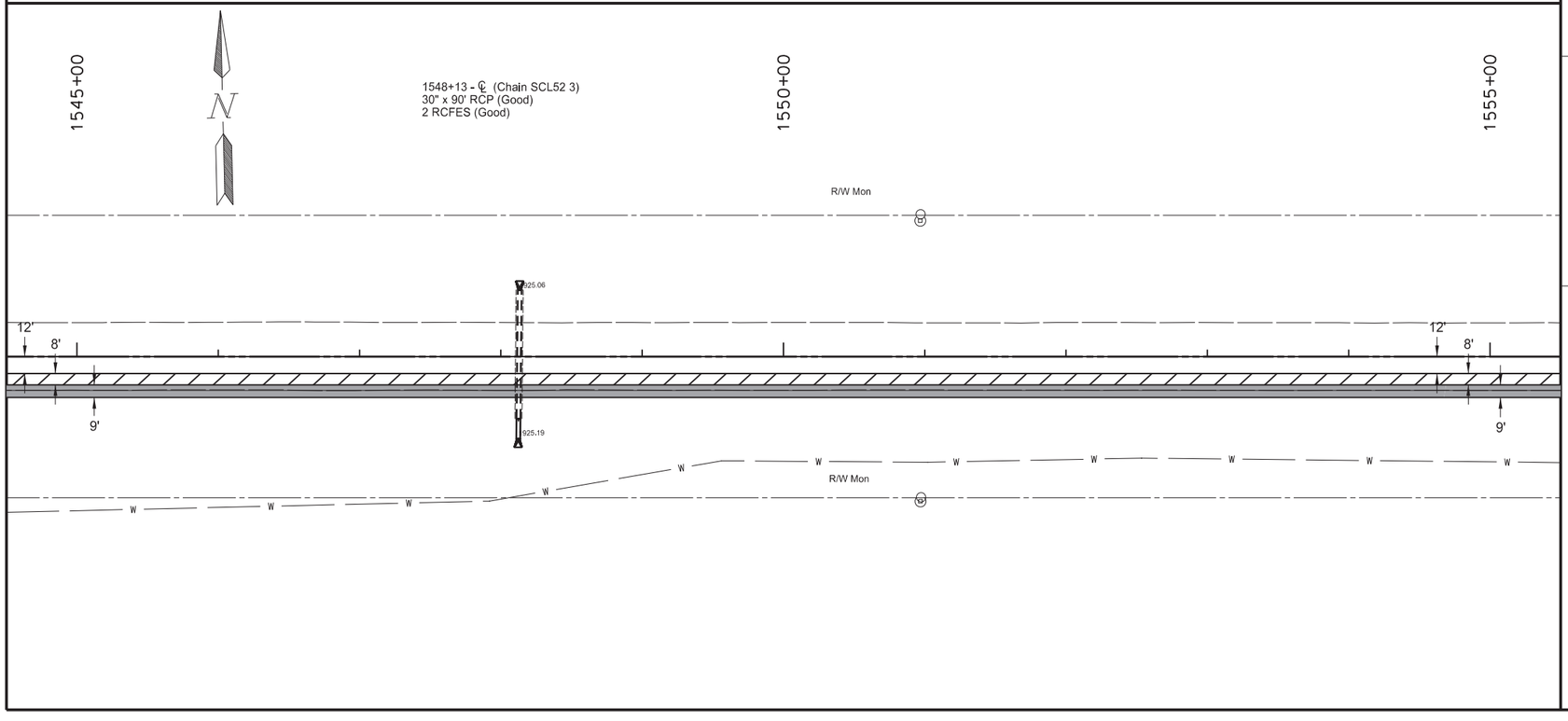
Passing Lane #6

Sta 1515+00 to Sta 1535+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 37 |



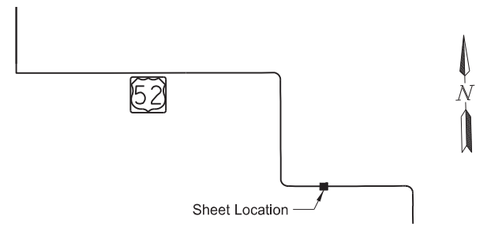




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1535+00 to 1555+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1535+00 to 1555+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1535+00 to 1555+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1535+00 to 1555+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1535+00 to 1555+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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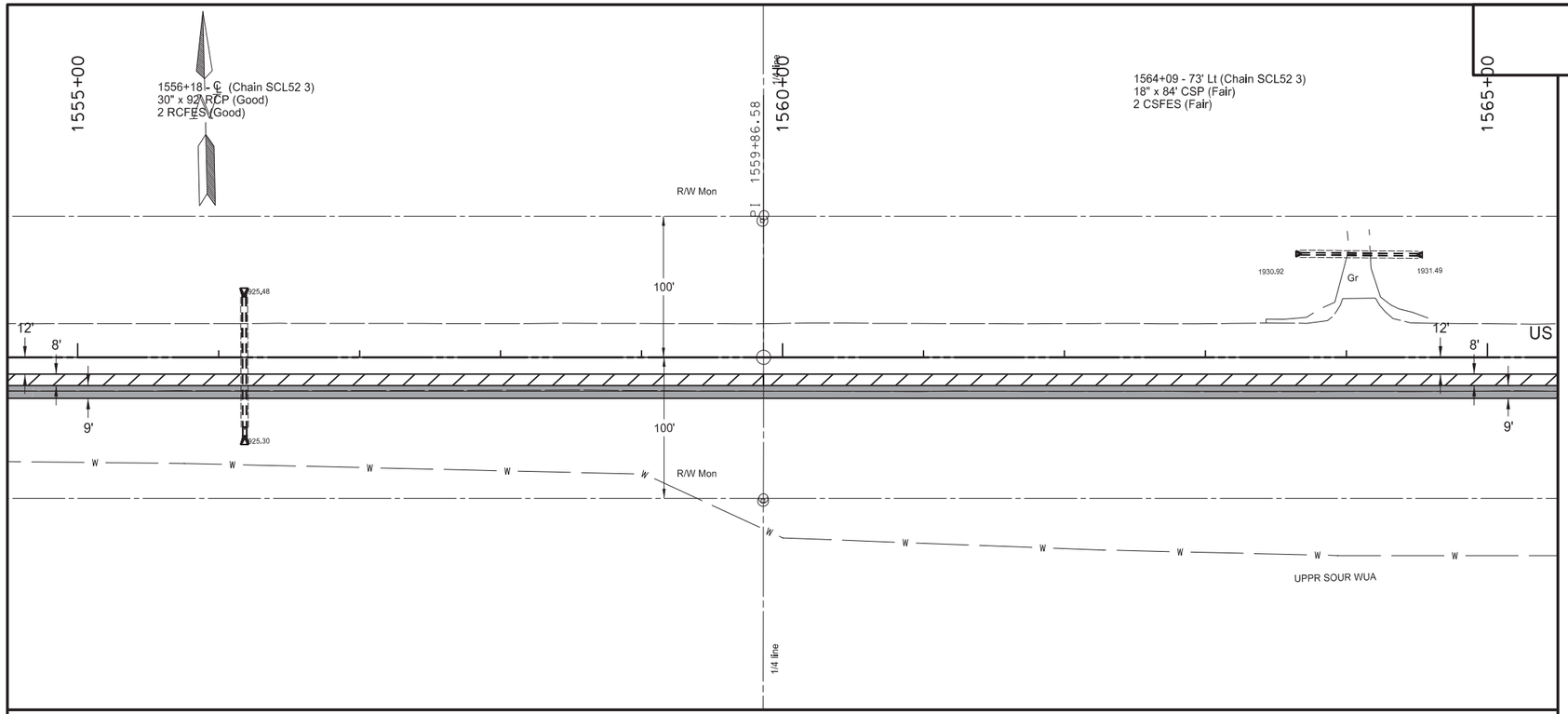
09/01/23

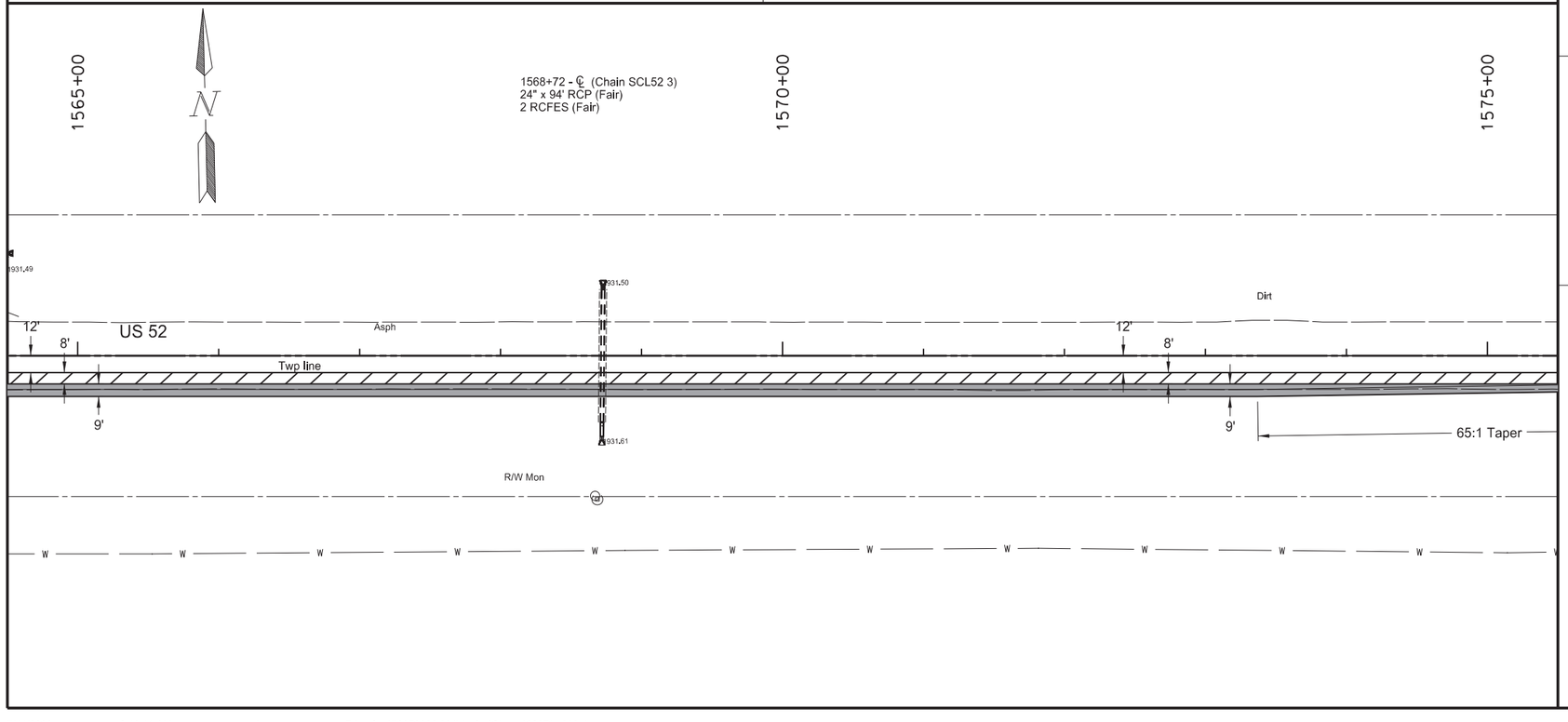
Paving

Passing Lane #6

Sta 1535+00 to Sta 1555+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 38 |



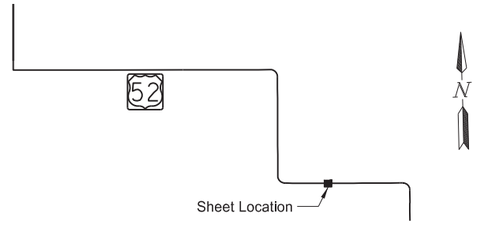




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1555+00 to 1575+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1555+00 to 1575+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1555+00 to 1575+00 RT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1555+00 to 1575+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1555+00 to 1575+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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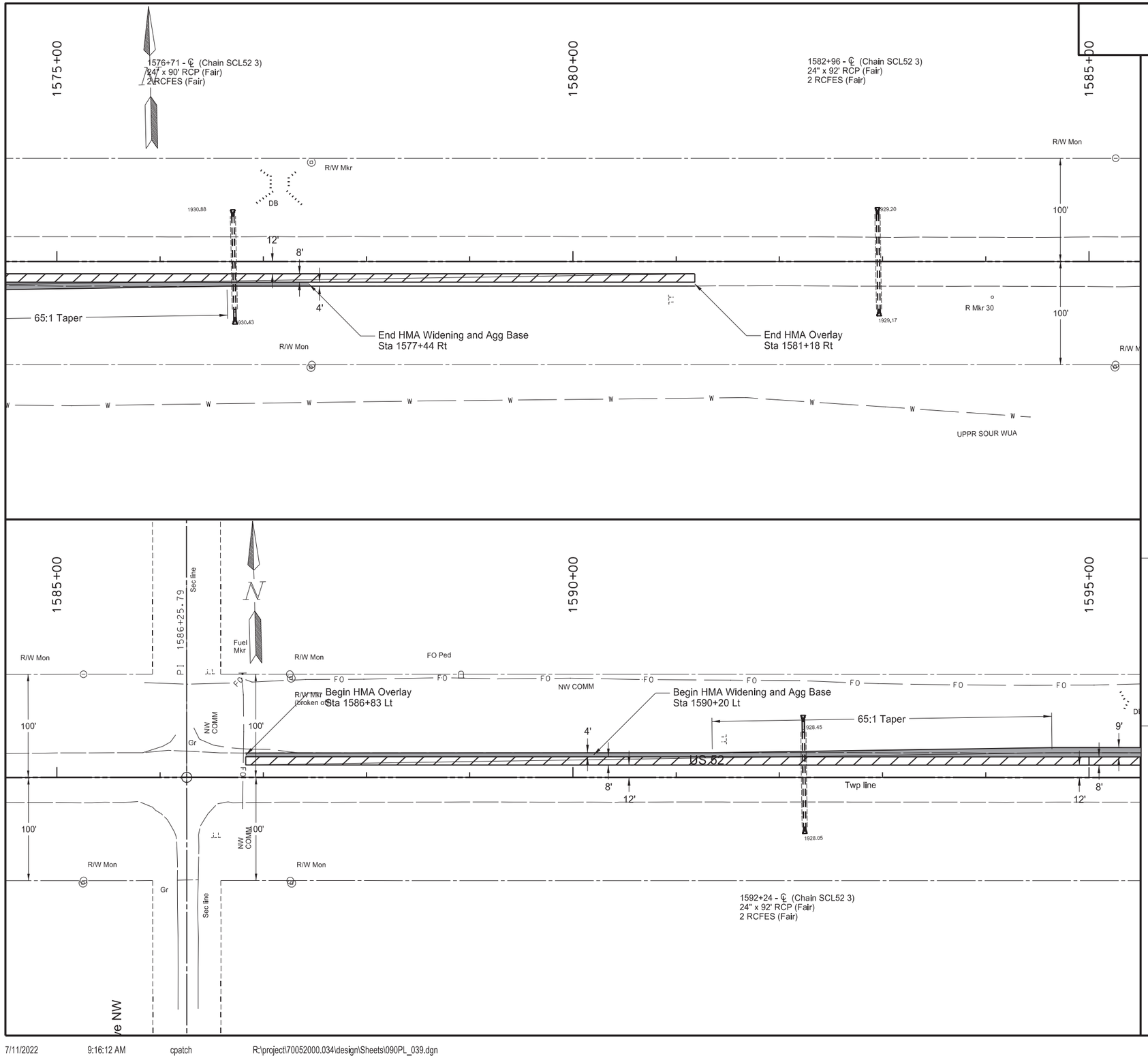
Paving

Passing Lane #6

Sta 1555+00 to Sta 1575+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 39 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1575+00 to 1577+45 RT | 456 | TON |
| | | Sta 1590+20 to 1595+00 LT | 893 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1575+00 to 1581+18 RT - Two Applications | 101 | GAL |
| | | Sta 1586+83 to 1595+00 LT - Two Applications | 78 | |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1575+00 to1581+18 RT | 218 | GAL |
| | | Sta 1586+83 to 1595+00 LT | 169 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1575+00 to 1581+18 RT | 142 | TON |
| | | Sta 1586+83 to 1595+00 LT | 326 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1575+00 to 1581+18 RT | 8.5 | TON |
| | | Sta 1586+83 to 1595+00 LT | 19.6 | |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area

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PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

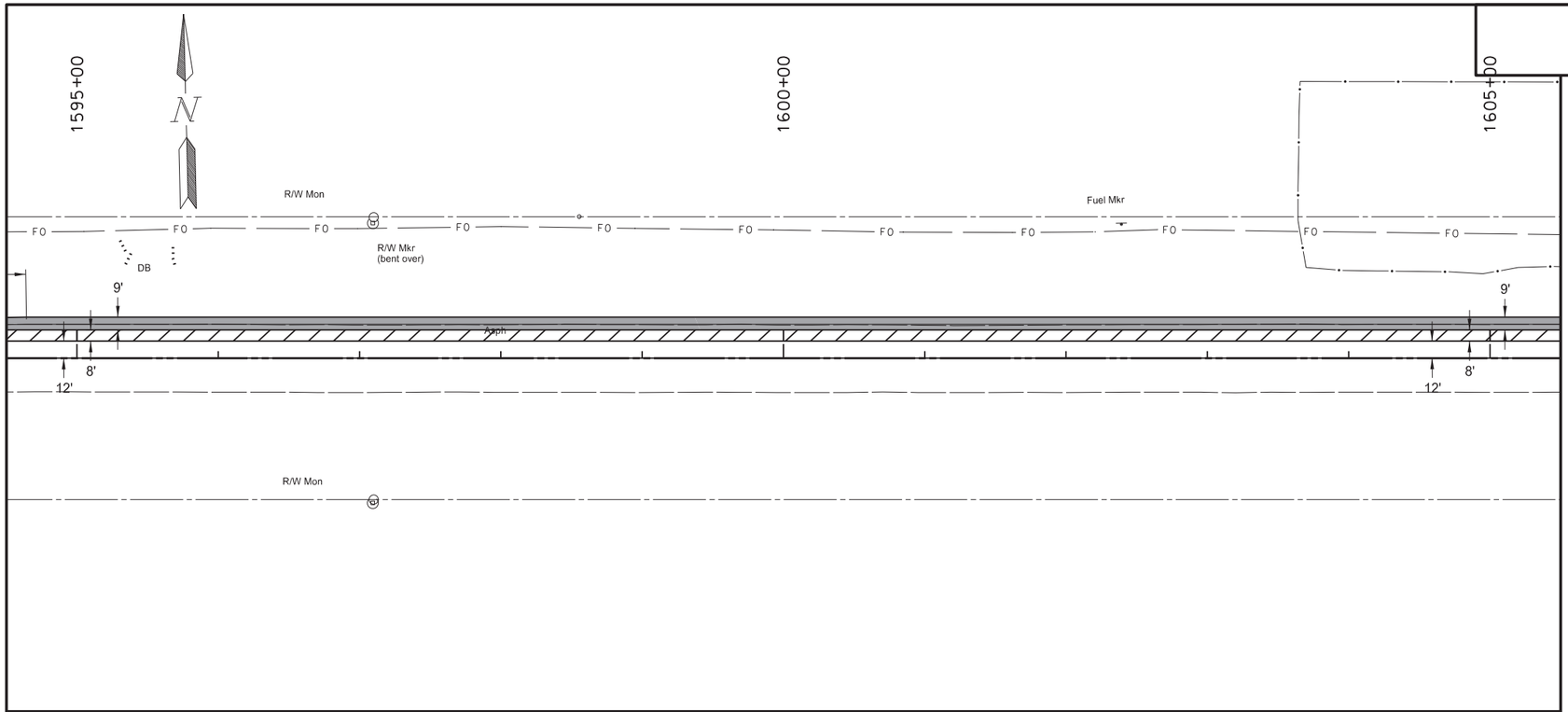
Paving

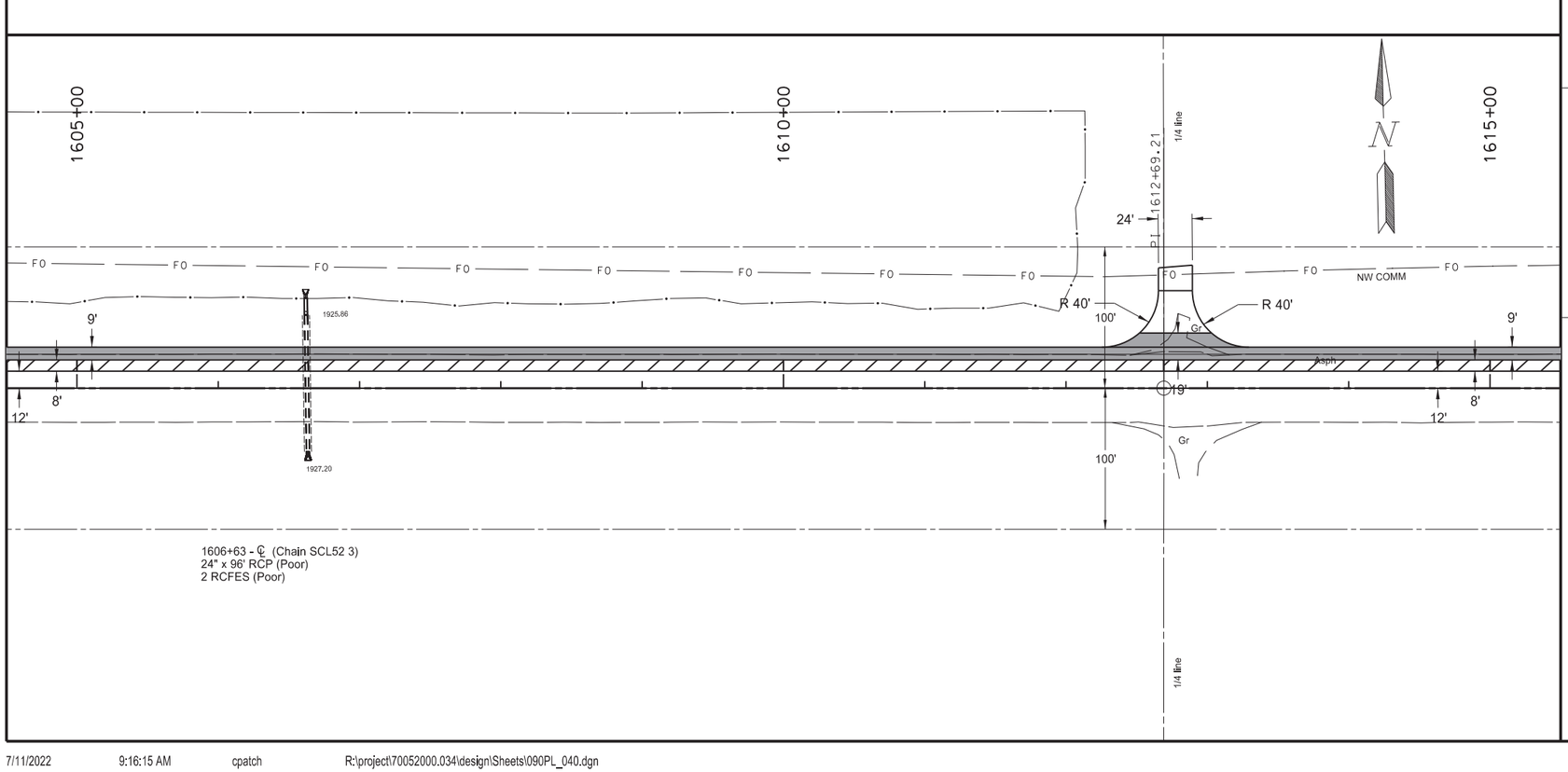
Passing Lane #6 & #7

Sta 1575+00 to Sta 1595+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 40 |



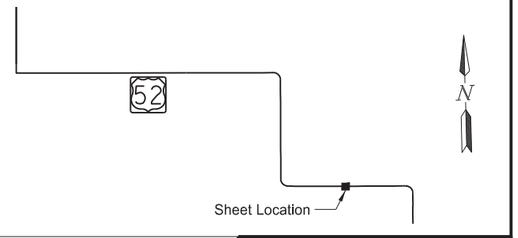




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | ## | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1595+00 to 1615+00 LT | 3722 | TON |
| 401 | ## | **TACK COAT** | | |
| | | Sta 1595+00 to 1615+00 LT - Two Applications | 327 | GAL |
| 401 | ## | **PRIME COAT** | | |
| | | Sta 1595+00 to 1615+00 LT | 706 | GAL |
| 430 | ## | **SUPERPAVE FAA 45** | | |
| | | Sta 1595+00 to 1615+00 LT | 1159 | TON |
| 430 | ## | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1595+00 to 1615+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



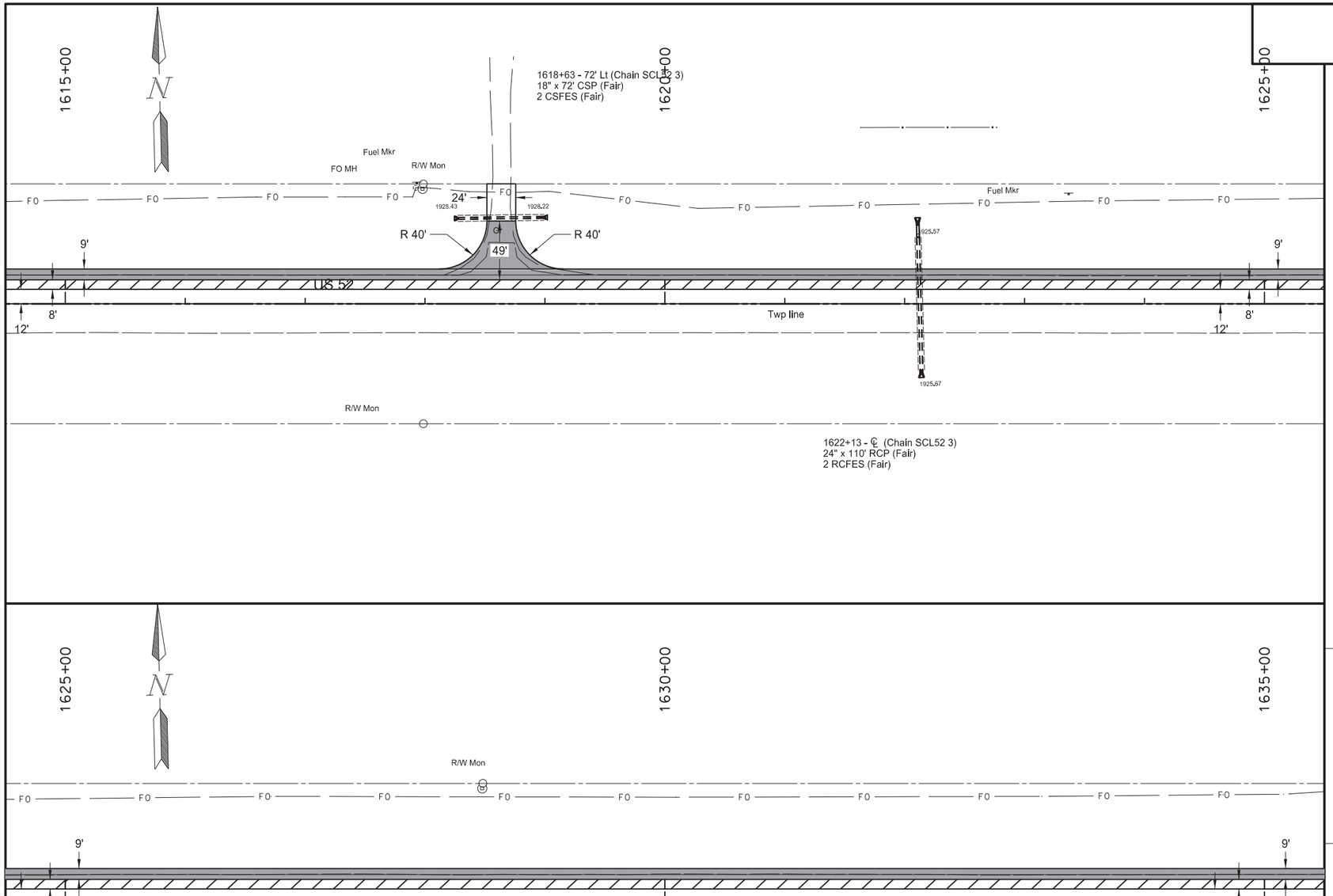

CHAD FRISINGER
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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
09/01/23

Paving

Passing Lane #7

Sta 1595+00 to Sta 1615+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 41 |

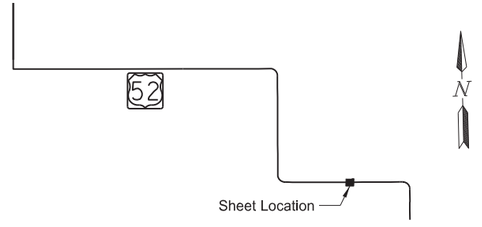



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | ## | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1615+00 to 1635+00 LT | 3722 | TON |
| 401 | ## | **TACK COAT** | | |
| | | Sta 1615+00 to 1635+00 LT - Two Applications | 77 | GAL |
| 401 | ## | **PRIME COAT** | | |
| | | Sta 1615+00 to 1635+00 LT | 706 | GAL |
| 430 | ## | **SUPERPAVE FAA 45** | | |
| | | Sta 1615+00 to 1635+00 LT | 1159 | TON |
| 430 | ## | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1615+00 to 1635+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



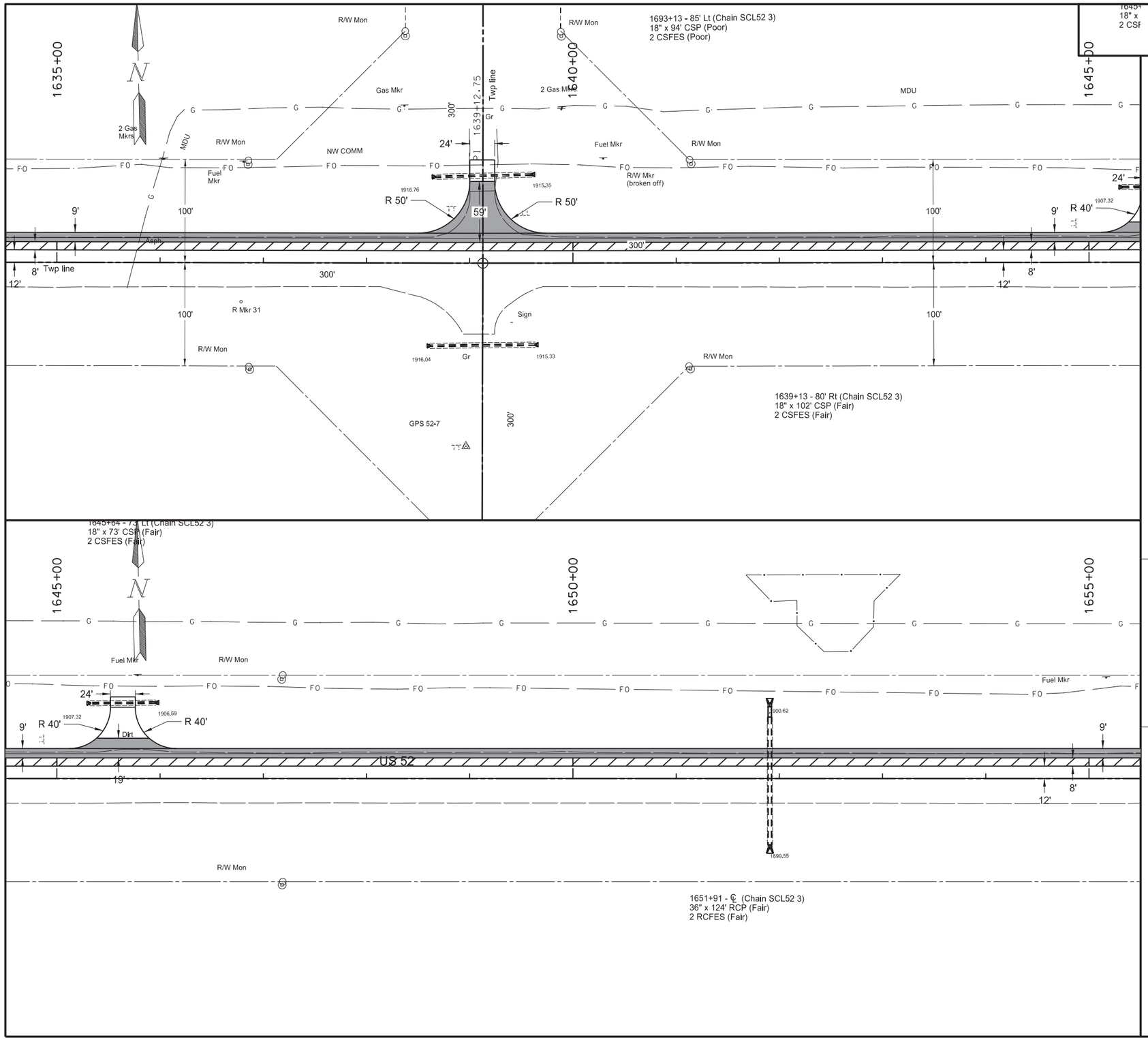

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ENGINEER
NORTH DAKOTA
09/01/23

Paving

Passing Lane #7

Sta 1615+00 to Sta 1635+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 42 |

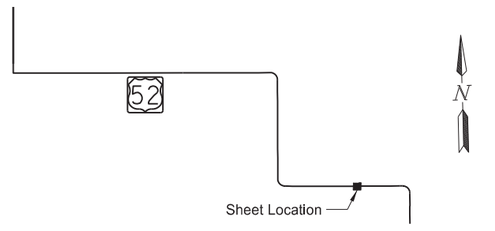



| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | ## | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1635+00 to 1655+00 LT | 3722 | TON |
| 401 | ## | **TACK COAT** | | |
| | | Sta 1635+00 to 1655+00 LT - Two Applications | 327 | GAL |
| 401 | ## | **PRIME COAT** | | |
| | | Sta 1635+00 to 1655+00 LT | 706 | GAL |
| 430 | ## | **SUPERPAVE FAA 45** | | |
| | | Sta 1635+00 to 1655+00 LT | 1159 | TON |
| 430 | ## | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1635+00 to 1655+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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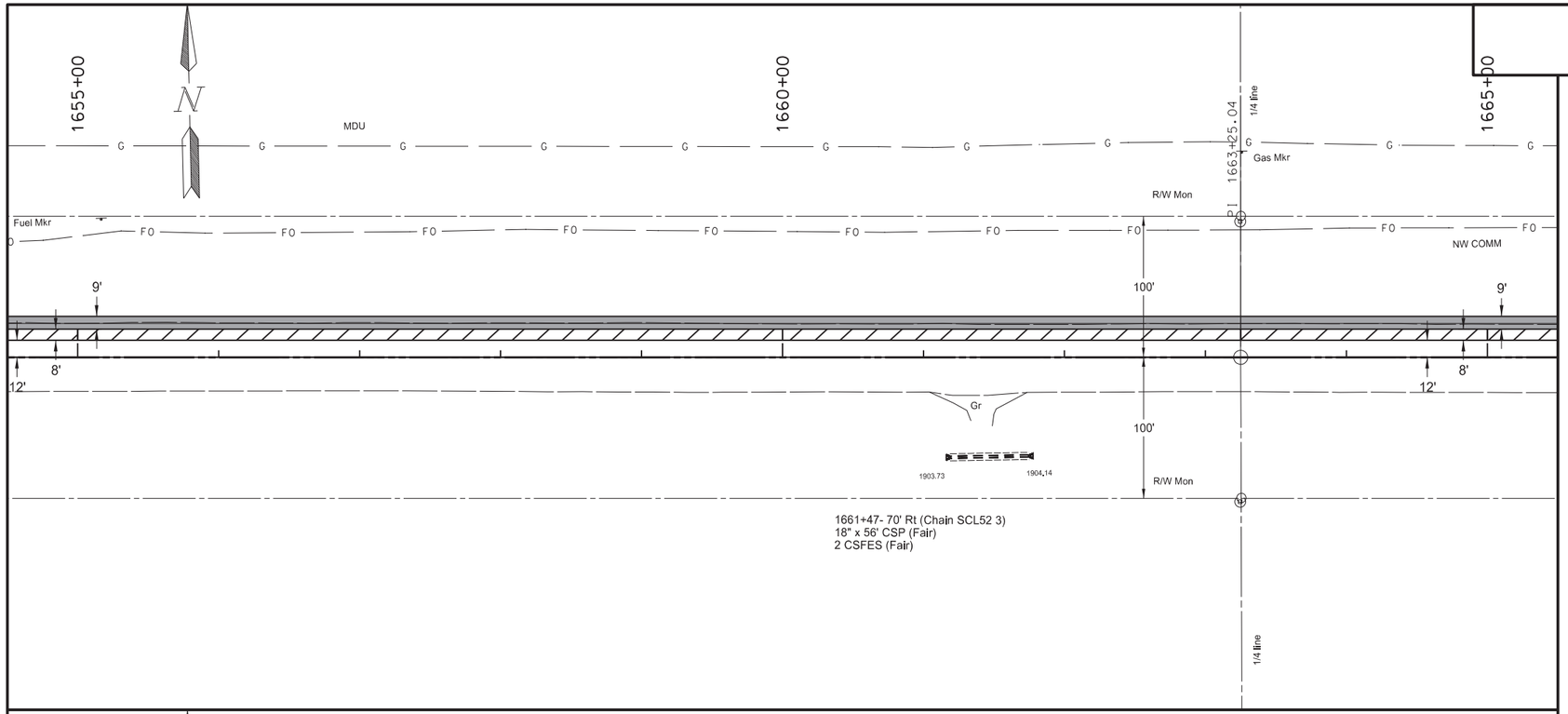
09/01/23

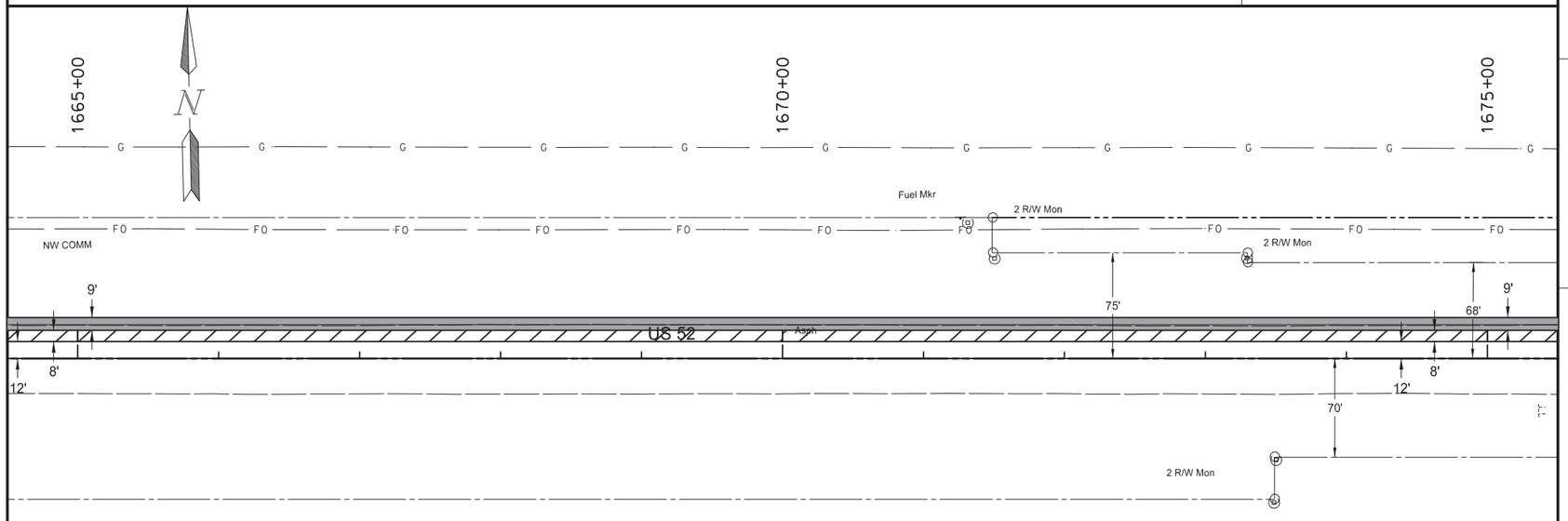
Paving

Passing Lane #7

Sta 1635+00 to Sta 1655+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 43 |



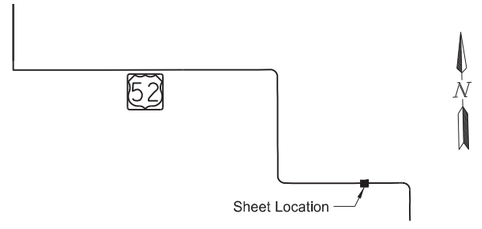




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1655+00 to 1675+00 LT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1655+00 to 1675+00 LT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1655+00 to 1675+00 LT | 706 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1655+00 to 1675+00 LT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1655+00 to 1675+00 LT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



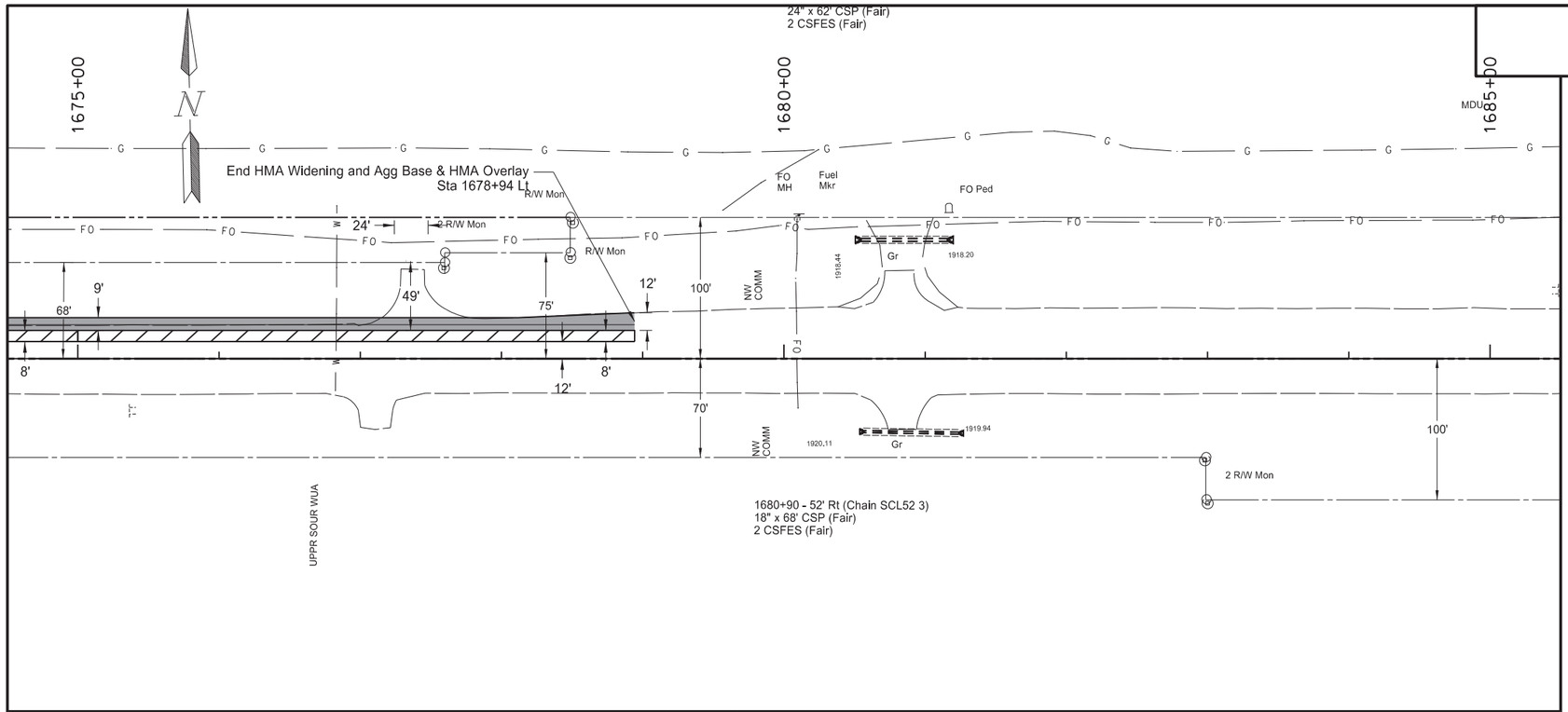

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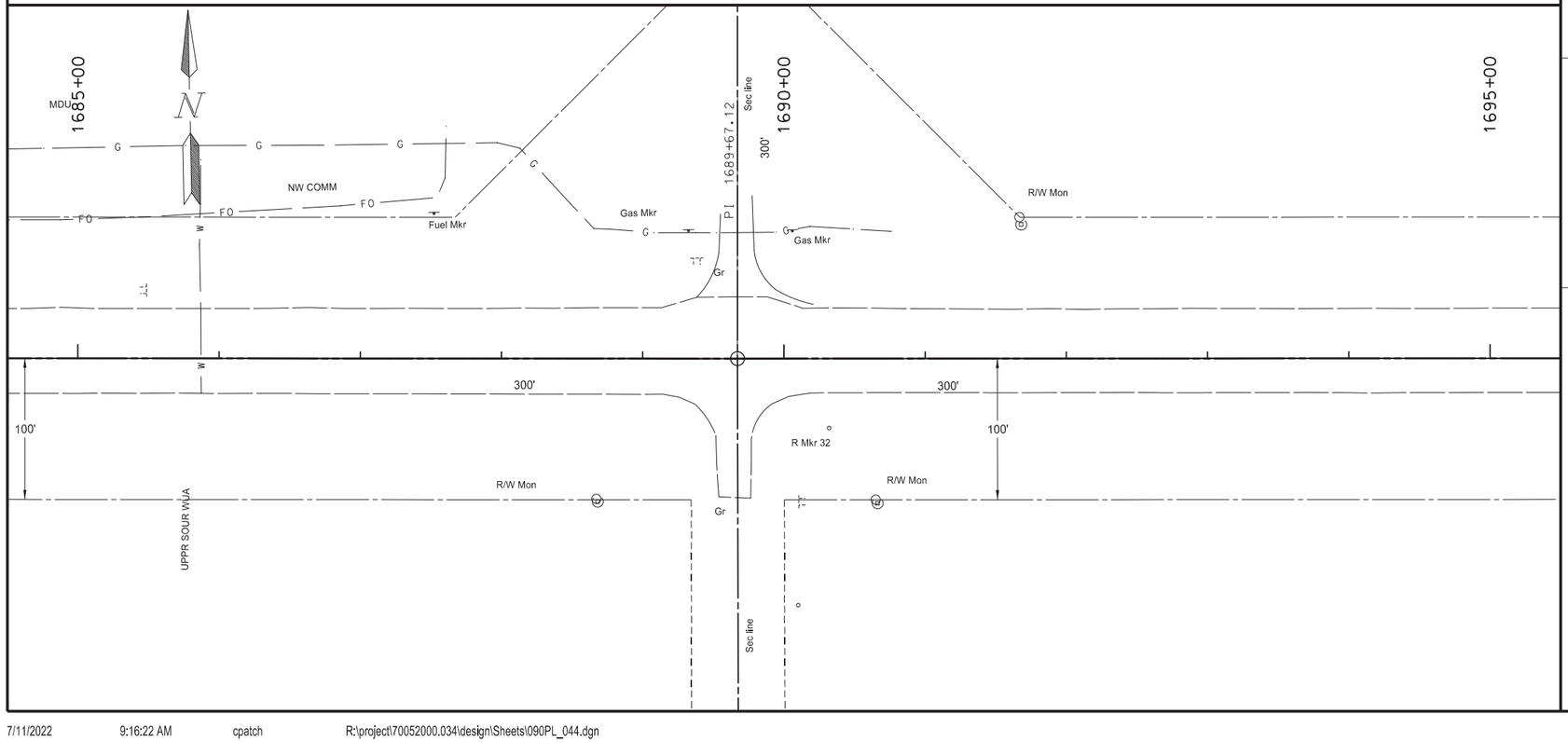
Paving

Passing Lane #7

Sta 1655+00 to Sta 1675+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 44 |



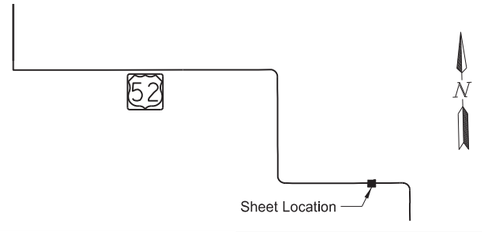




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1675+00 to 1678+94 LT | 733 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1675+00 to 1678+94 LT - Two Applications | 65 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1675+00 to 1678+94 LT | 139 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1675+00 to 1678+94 LT | 228 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1675+00 to 1678+94 LT | 13.7 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



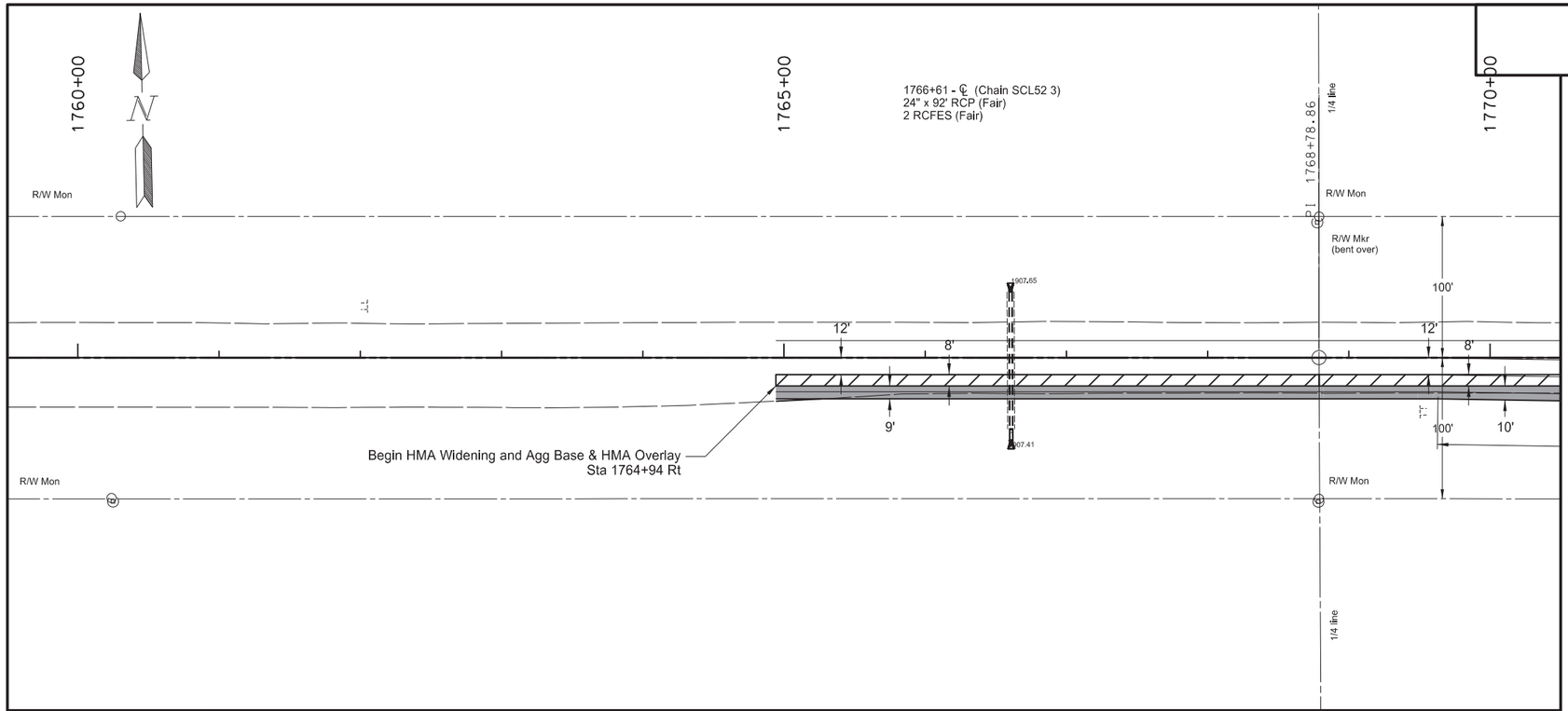

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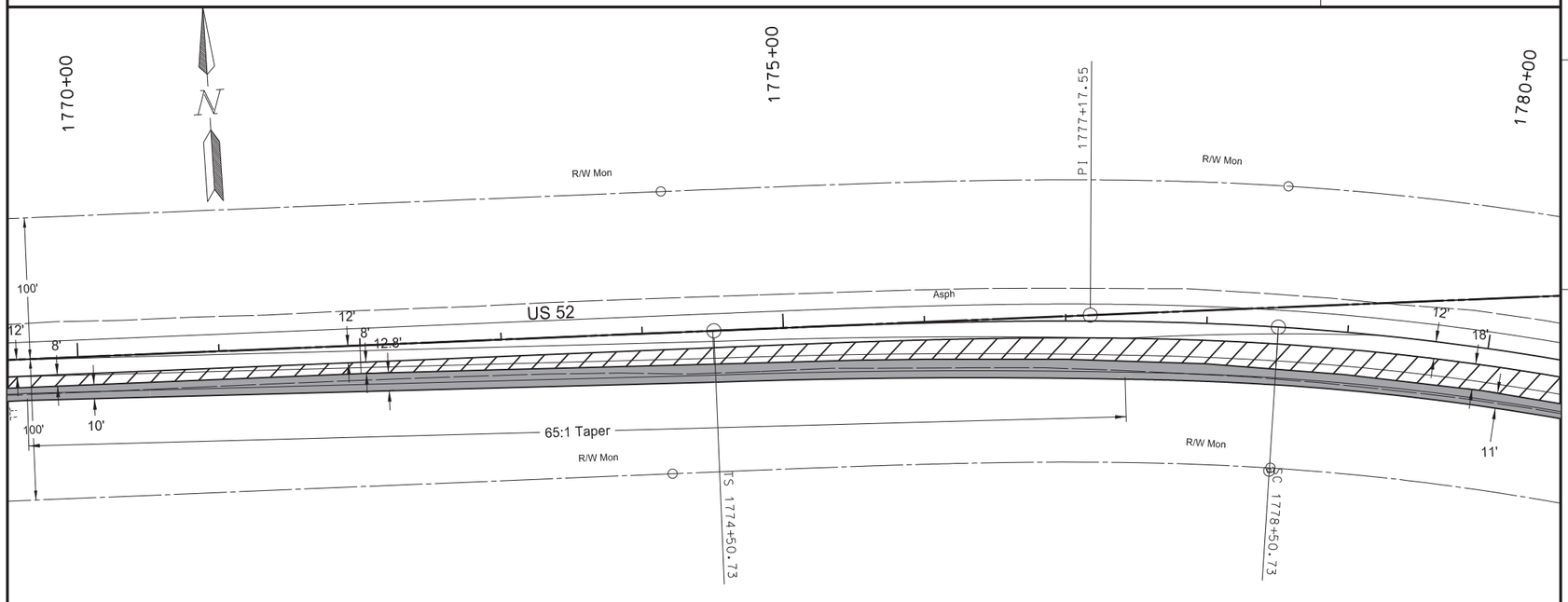
Paving

Passing Lane #7

Sta 1675+00 to Sta 1695+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 45 |



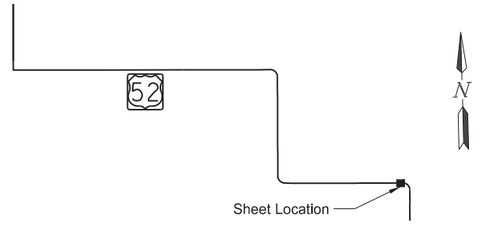




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1764+94 to 1780+00 RT | 2803 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1764+94 to 1780+00 RT - Two Applications | 246 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1764+94 to 1780+00 RT | 531 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1764+94 to 1780+00 RT | 873 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1764+94 to 1780+00 RT | 52.4 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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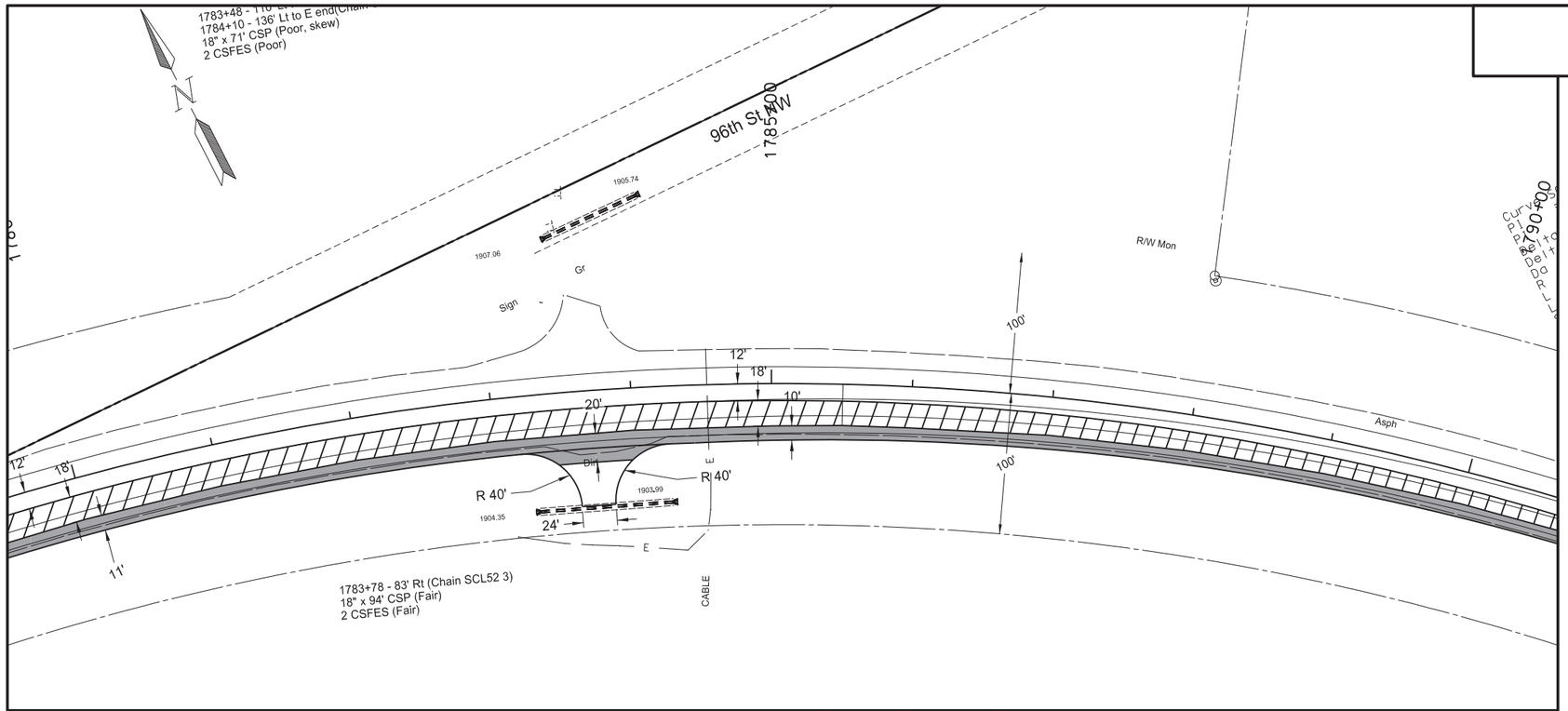
Paving

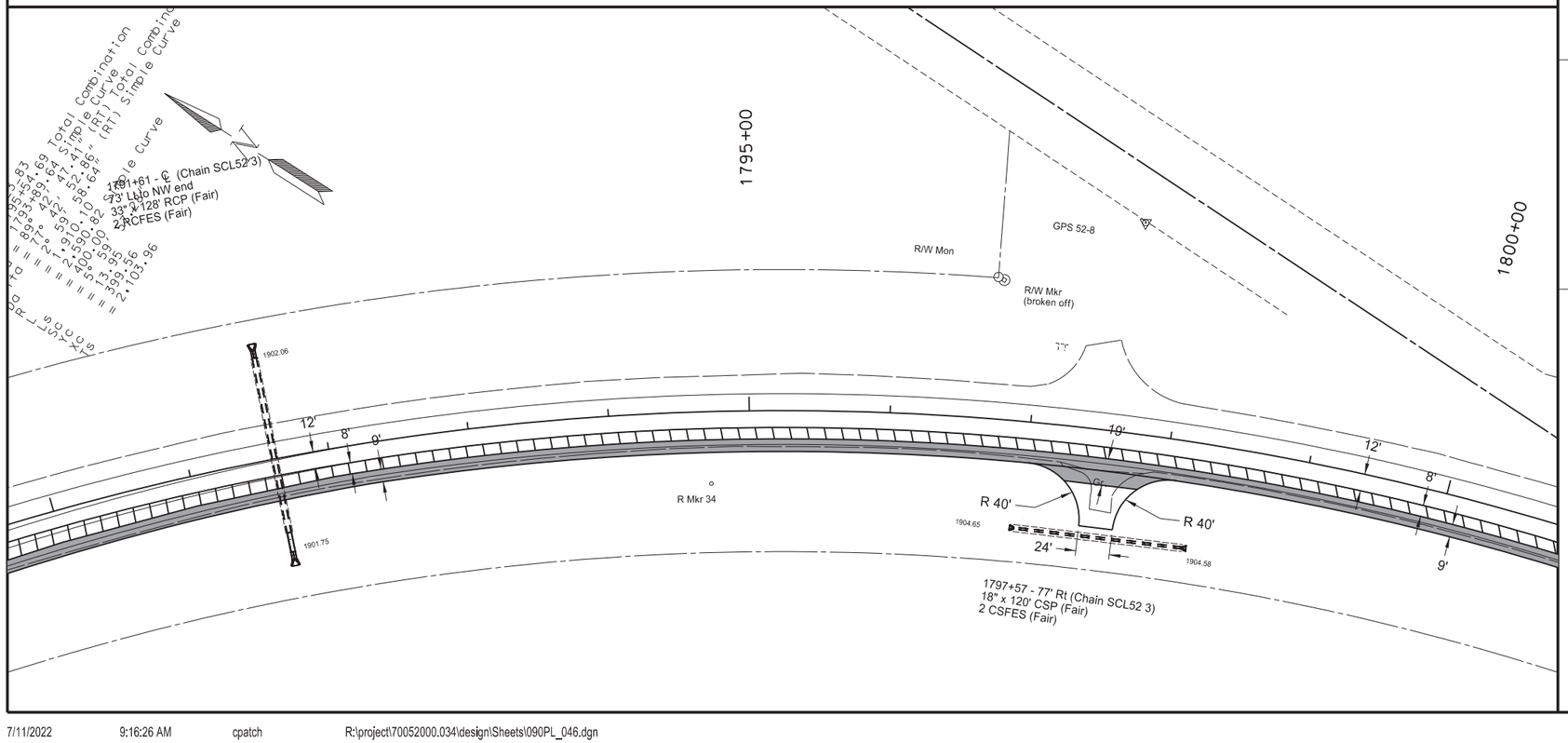
Passing Lane #8

Sta 1760+00 to Sta 1780+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 46 |

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1780+00 to 1800+00 RT | 3722 | TON |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1780+00 to 1800+00 RT - Two Applications | 1159 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1780+00 to 1800+00 RT | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1780+00 to 1800+00 RT | 706 | GAL |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1780+00 to 1800+00 RT | 69.5 | TON |

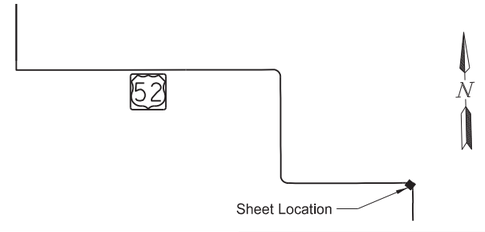



Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area




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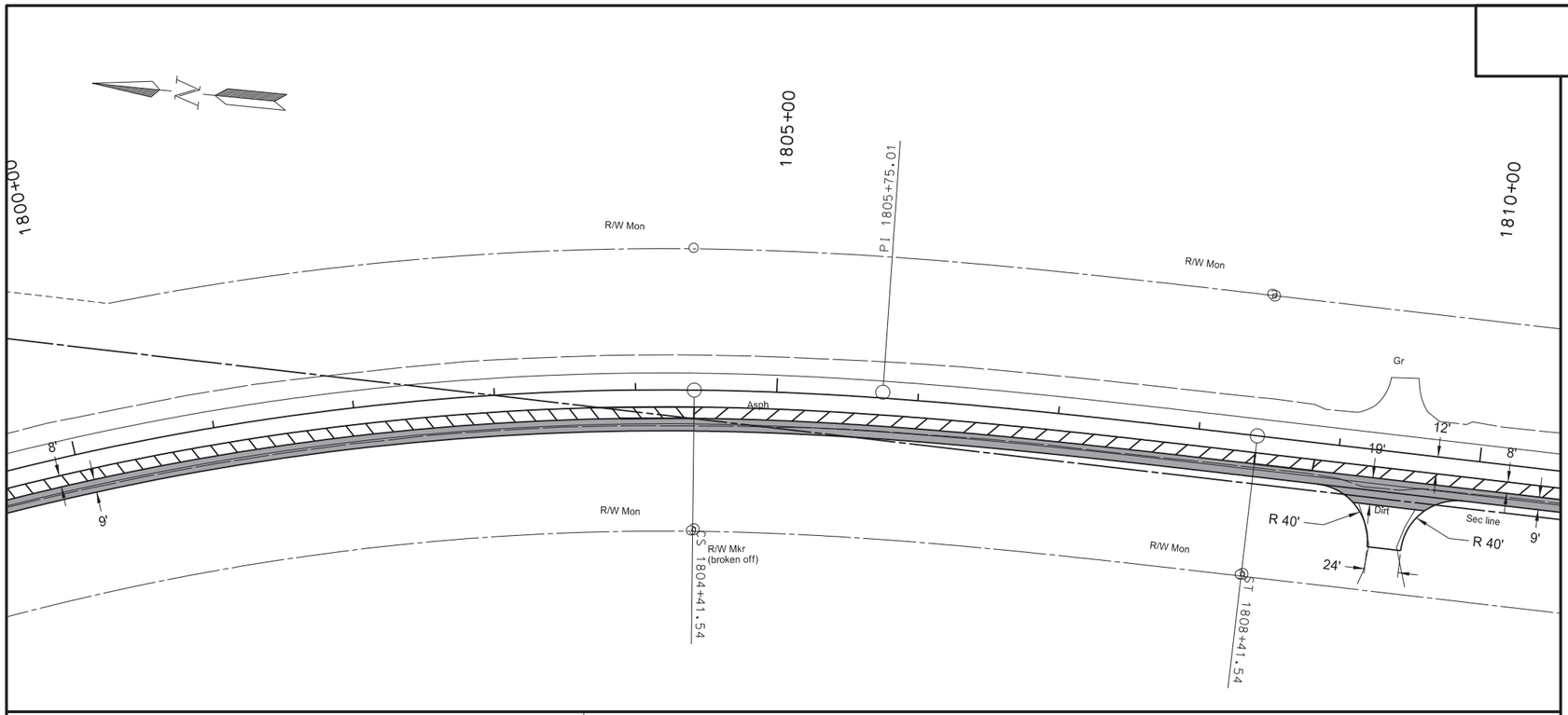
Paving

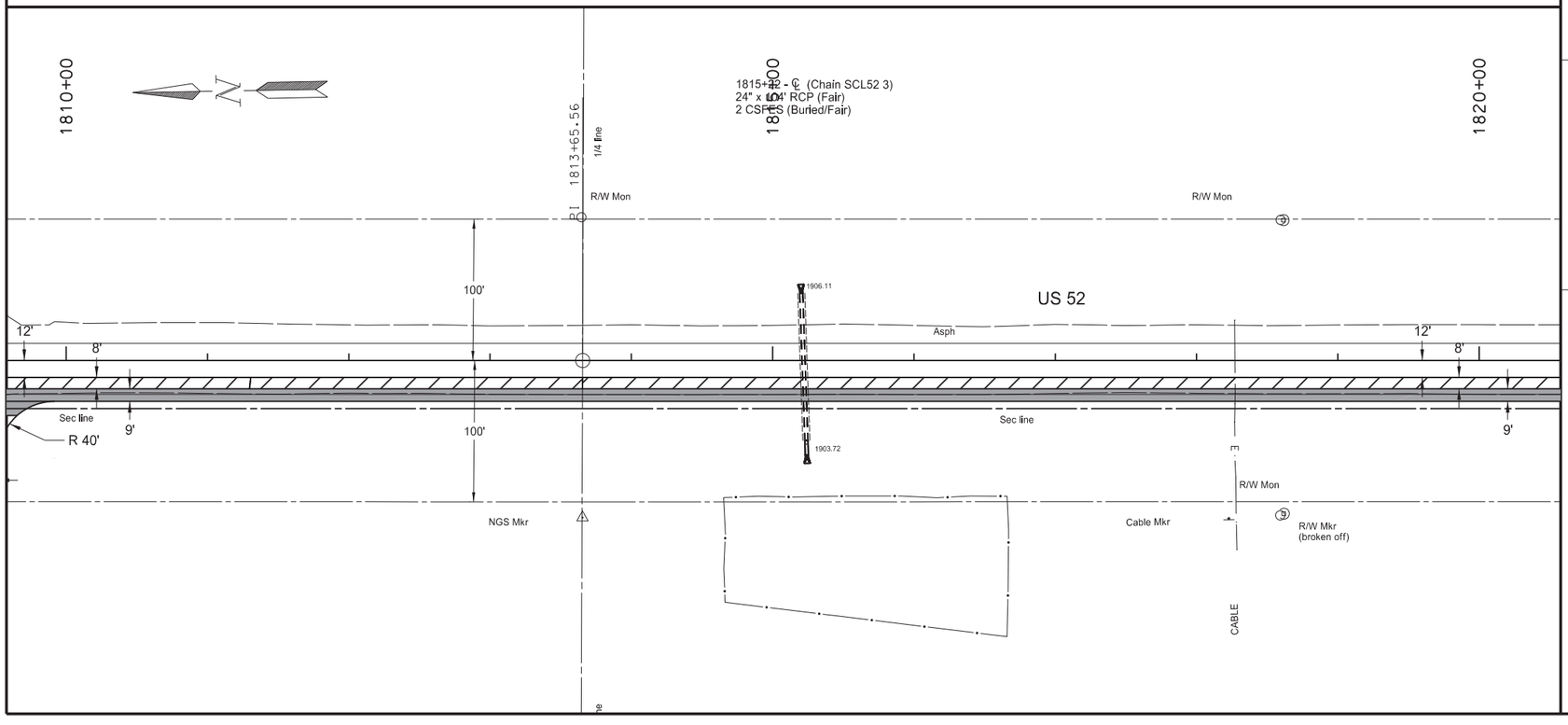
Passing Lane #8

Sta 1780+00 to Sta 1800+00

7/11/2022 9:16:26 AM cpatch R:\project\70052000.034\design\Sheets\090PL_046.dgn

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 47 |



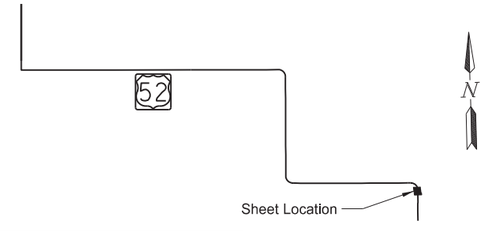




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1800+00 to 1820+00 RT | 3722 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1800+00 to 1820+00 RT - Two Applications | 327 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1800+00 to 1820+00 RT | 580 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1800+00 to 1820+00 RT | 1159 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1800+00 to 1820+00 RT | 69.5 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area



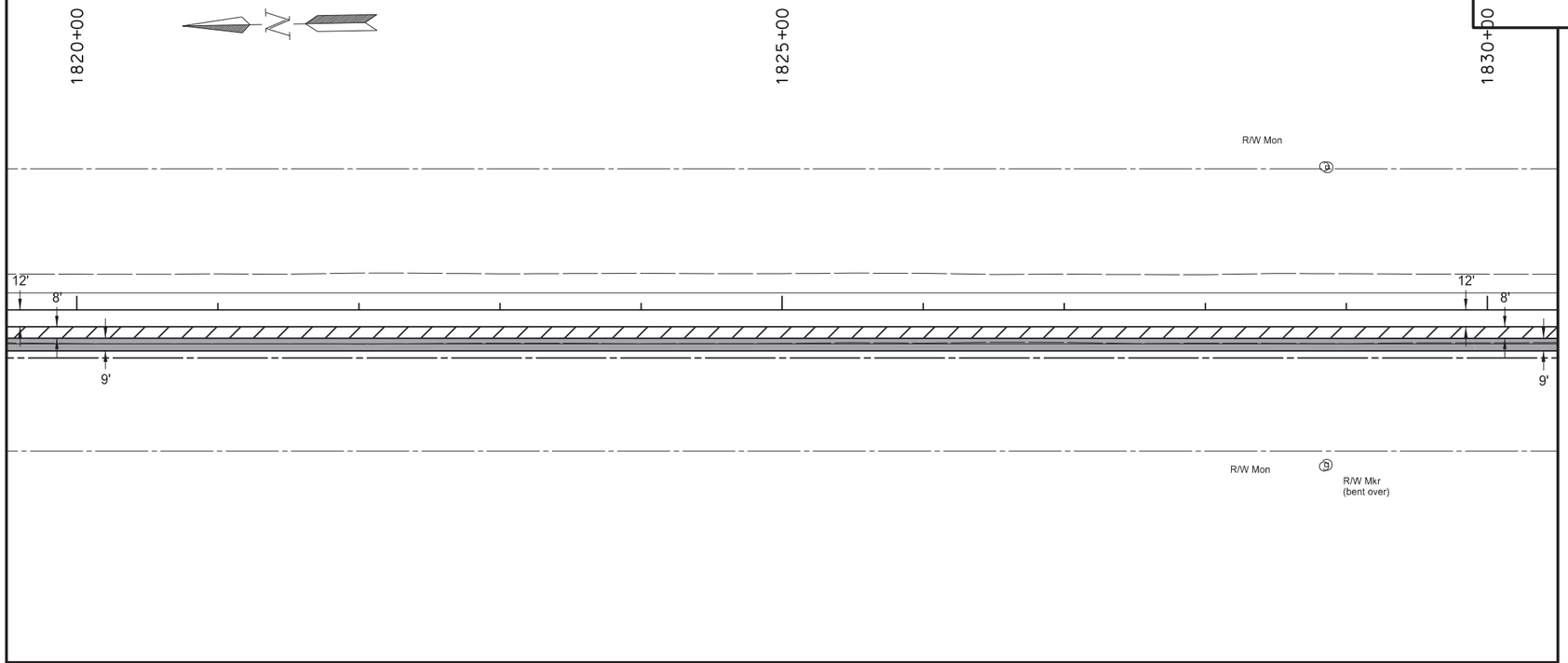

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09/01/23

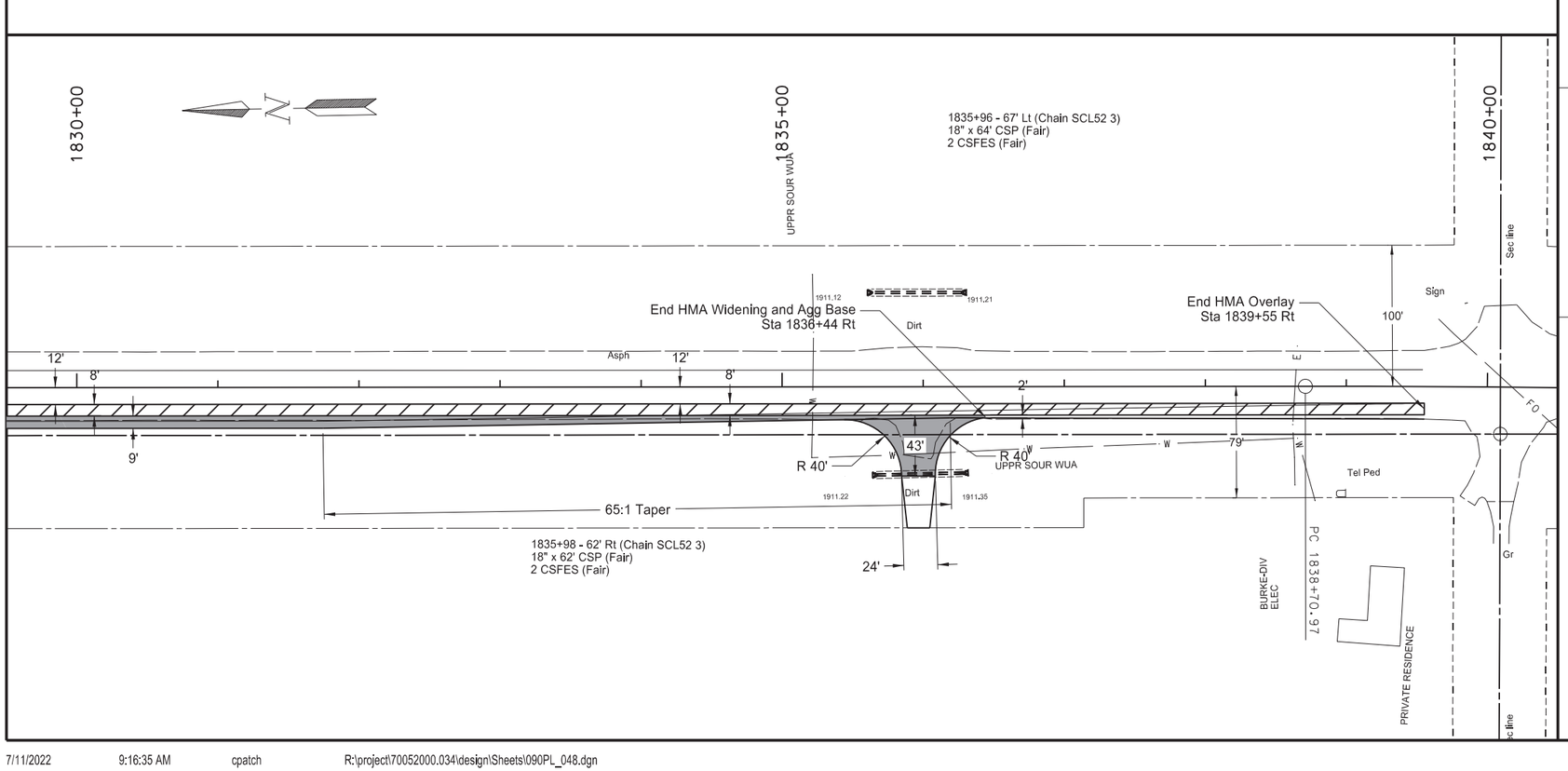
Paving

Passing Lane #8

Sta 1800+00 to Sta 1820+00

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 90 | 48 |



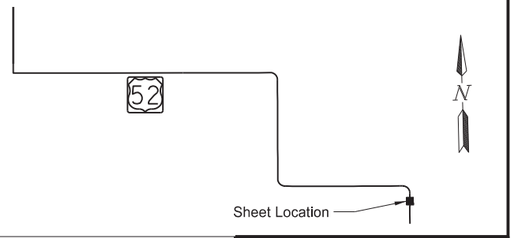




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 302 | 0120 | **AGGREGATE BASE COURSE CL 5** | | |
| | | Sta 1820+00 to 1836+44 RT | 3060 | TON |
| 401 | 0050 | **TACK COAT** | | |
| | | Sta 1820+00 to 1839+55 RT - Two Applications | 320 | GAL |
| 401 | 0060 | **PRIME COAT** | | |
| | | Sta 1820+00 to 1839+55 RT | 690 | GAL |
| 430 | 0045 | **SUPERPAVE FAA 45** | | |
| | | Sta 1820+00 to 1839+55 RT | 998 | TON |
| 430 | 5818 | **PG 58H-34 ASPHALT CEMENT** | | |
| | | Sta 1820+00 to 1839+55 RT | 57 | TON |

Legend

6.5" HMA Widening
18" Aggregate Base Course

2" HMA Overlay @ Milled Area







09/01/23

Paving

Passing Lane #8

Sta 1820+00 to Sta 1840+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 1 |

| SIGN NUMBER | SIGN SIZE | DESCRIPTION | AMOUNT REQUIRED BY PHASE NO. 1 | 2 | | TOTAL 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 | | | | | 28 | |
| G20-1b-60 | 60"x24" | NO WORK IN PROGRESS (Sign and installation only) | | | | | 18 | |
| **G20-2-48** | **48"x24"** | **END ROAD WORK** | **12** | **12** | | **12** | **26** | **312** |
| 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** | **1** | **1** | | **1** | **43** | **43** |
| **G20-52a-72** | **72"x24"** | **ROAD WORK NEXT __ MILES RT or LT ARROW** | **2** | **2** | | **2** | **36** | **72** |
| **G20-55-96** | **96"x48"** | **SPEED LIMIT ENFORCED - MINIMUM FEE $150 WHEN WORKERS PRESENT** | **12** | **12** | | **12** | **59** | **708** |
| 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** | **15** | **15** | | **15** | **32** | **480** |
| R1-2-60 | 60"x60" | YIELD | | | | | 29 | |
| **R2-1-36** | **36"x48"** | **SPEED LIMIT __ (Portable only)** | **24** | **24** | | **24** | **30** | **720** |
| R2-1-48 | 48"x60" | SPEED LIMIT __ | | | | | 39 | |
| **R2-1aP-24** | **24"x18"** | **MINIMUM FEE $150 (Mounted on Speed Limit post)** | **12** | **12** | | **12** | **10** | **120** |
| 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 | |
| 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) | | | | | 12 | |
| 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) | | | | | 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** | | **12** | | **12** | **35** | **420** |
| **W3-5-48** | **48"x48"** | **SPEED REDUCTION AHEAD** | **12** | **12** | | **12** | **35** | **420** |
| 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 | | | | | 35 | |
| 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** | **8** | **8** | | **8** | **35** | **280** |
| W8-53-48 | 48"x48" | TRUCKS ENTERING HIGHWAY | | | | | 35 | |
| **W8-54-48** | **48"x48"** | **TRUCKS ENTERING AHEAD or __ FT or _ MILE** | **2** | **2** | | **2** | **35** | **70** |
| **W8-55-48** | **48"x48"** | **TRUCKS CROSSING AHEAD or __ FT or _ MILE** | **2** | **2** | | **2** | **35** | **70** |
| 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** | **12** | **12** | | **12** | **35** | **420** |
| 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** | | **12** | | **12** | **35** | **420** |
| **W20-8-18** | **18"x18"** | **STOP - SLOW PADDLE Back to Back** | | **12** | | **12** | **5** | **60** |
| **W20-52P-54** | **54"x12"** | **NEXT __ MILES (Mounted on warning sign post)** | **8** | **8** | | **8** | **12** | **96** |
| 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** | **2** | **2** | | **2** | **35** | **70** |
| **W21-5a-48** | **48"x48"** | **RIGHT or LEFT SHOULDER CLOSED** | **8** | | | **8** | **35** | **280** |
| **W21-5b-48** | **48"x48"** | **RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE** | **8** | | | **8** | **35** | **280** |

| SIGN NUMBER | SIGN SIZE | DESCRIPTION | AMOUNT REQUIRED BY PHASE NO. 1 | 2 | | TOTAL AMOUNT REQUIRED | UNITS PER AMOUNT | UNITS SUB TOTAL |
|---|---|---|---|---|---|---|---|---|
| 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** | | **12** | | **12** | **35** | **420** |
| 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 5761** |

| SPEC & CODE | DESCRIPTION | UNIT | QUANTITY BY PHASE NO. 1 | 2 | | TOTAL QUANTITY |
|---|---|---|---|---|---|---|
| **704-0100** | **FLAGGING** | MHR | **3600** | **3600** | | **7200** |
| **704-1043** | **ATTENUATION DEVICE-TYPE B-65** | EA | **4** | **4** | | **4** |
| **704-1048** | **PORTABLE RUMBLE STRIPS** | EACH | **12** | **12** | | **12** |
| 704-1050 | TYPE I BARRICADES | EACH | | | | |
| **704-1052** | **TYPE III BARRICADES** | EACH | **24** | **24** | | **24** |
| 704-1060 | DELINEATOR DRUMS | EACH | | | | |
| 704-1065 | TRAFFIC CONES | EACH | | | | |
| 704-1067 | TUBULAR MARKERS | EACH | | | | |
| 704-1070 | DELINEATOR | EACH | | | | |
| 704-1072 | FLEXIBLE DELINEATORS | EACH | | | | |
| **704-1080** | **STACKABLE VERTICAL PANELS** | EACH | **856** | **856** | | **856** |
| 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 | **32** | | | **32** |
| 762-0200 | RAISED PAVEMENT MARKERS | EACH | | | | |
| 762-0420 | SHORT TERM 4IN LINE - TYPE R | LF | | | | |
| 762-0430 | SHORT TERM 4IN LINE - TYPE NR | LF | | | | |

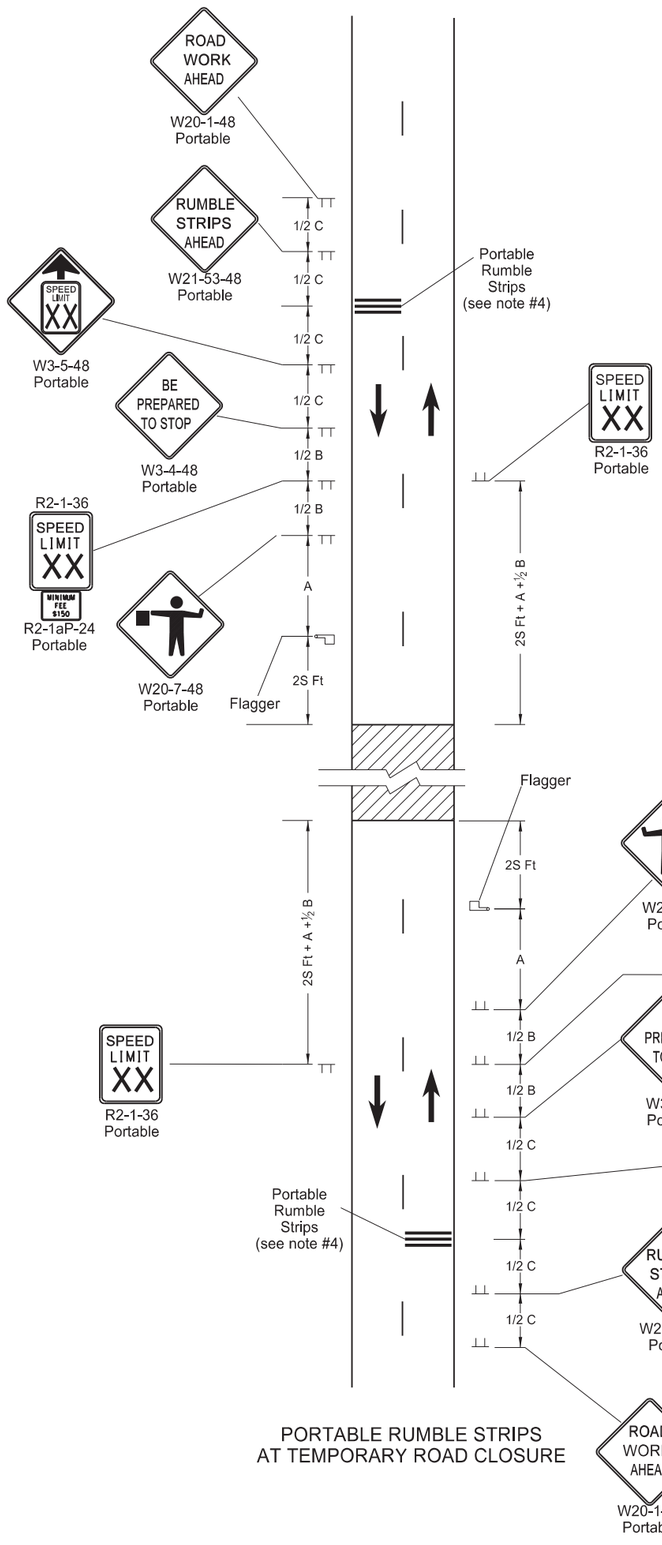
NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
http://www.dot.nd.gov/

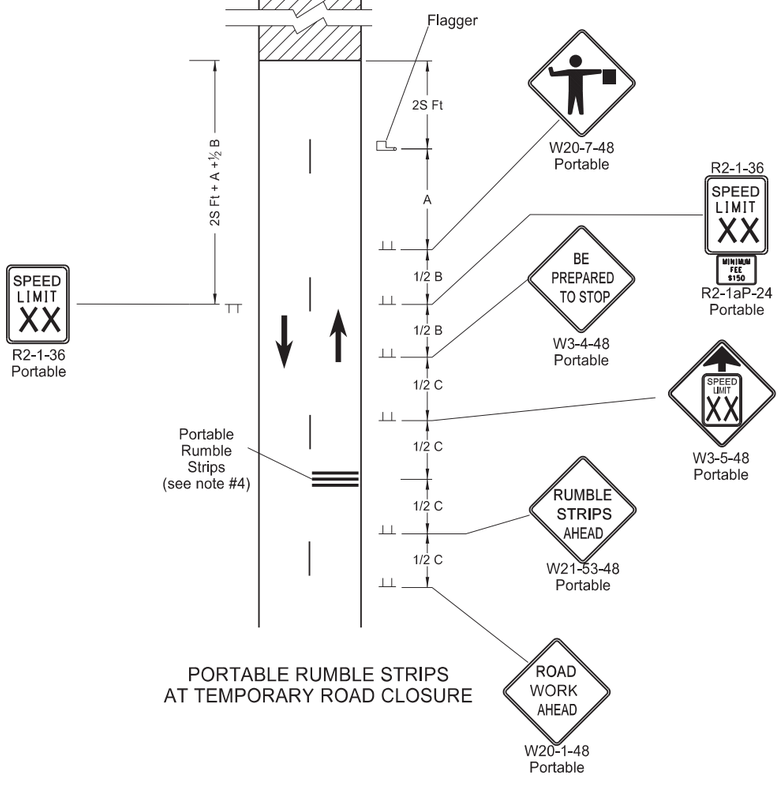
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10/17/25
NORTH DAKOTA

Traffic Control Devices List

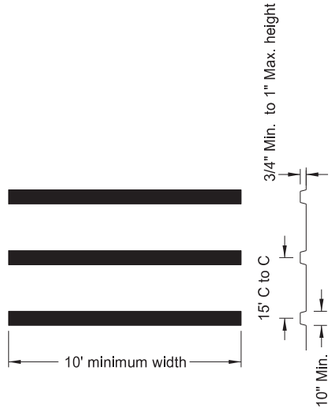
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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 100 | 2 |

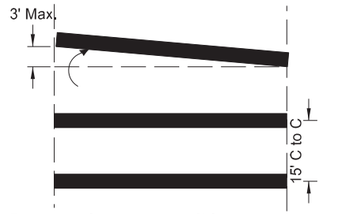



PORTABLE RUMBLE STRIPS AT TEMPORARY ROAD CLOSURE

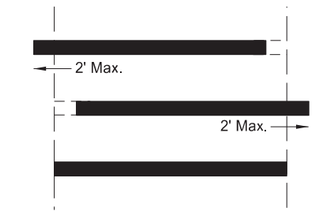



PORTABLE RUMBLE STRIPS ARRAY DETAIL



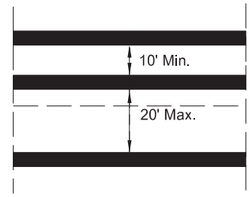

Reposition if movement is >3' from original position.

Skewing




Reposition if movement is >2' from original position.

Lateral




Reposition if distance between strips is <10' or >20'.

Perpendicular to Travel with or against traffic

## PORTABLE RUMBLE STRIPS ARRAY TYPES OF MOVEMENT AND MAXIMUM ALLOWANCES

Notes:
1. Number of devices were calculated using 40 mph. Speed determined in the field based on location and conditions.
2. Re-establish the speed limit. Determine the exact speed limit in the field, dependent on location and conditions.
3. Sign R2-1aP-24 is not required when pilot car operation is used.
4. Rumble strips are not used on a non paved surface or in a pre-construction speed zone of 25 mph or less.

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

KEY
- Work area
- Flagger
- Sign

S = Numerical value of speed limit or 85th percentile.

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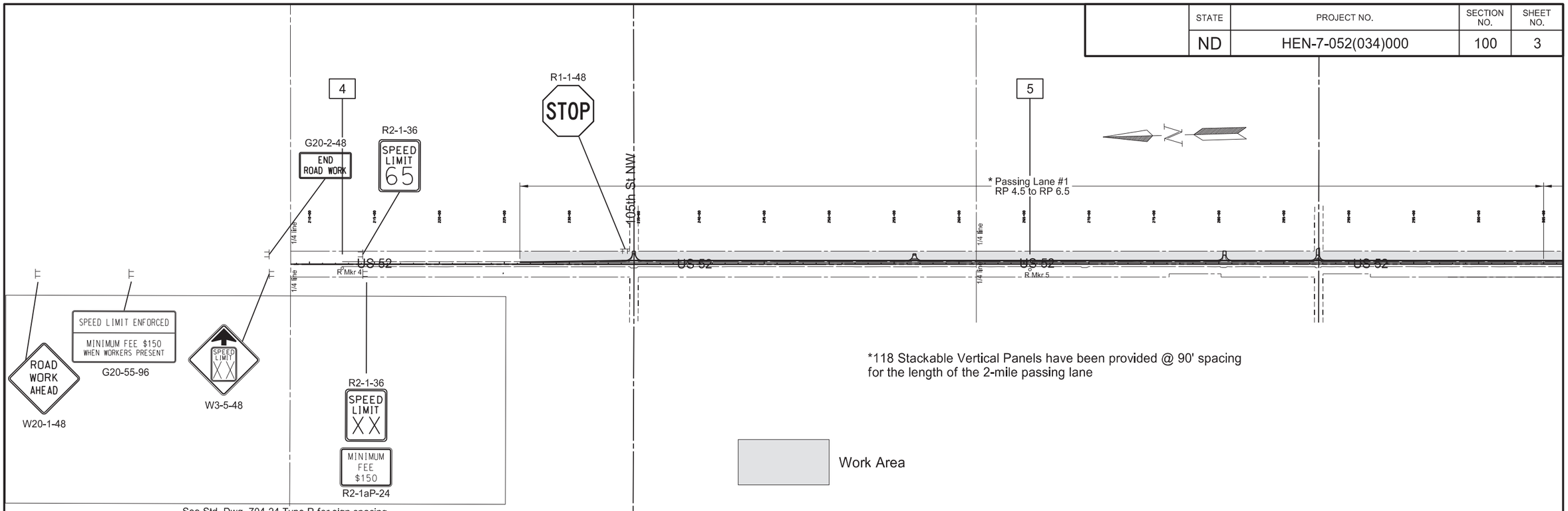
TWO-LANE PORTABLE RUMBLE STRIPS

Passing Lanes

US 52

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 3 |




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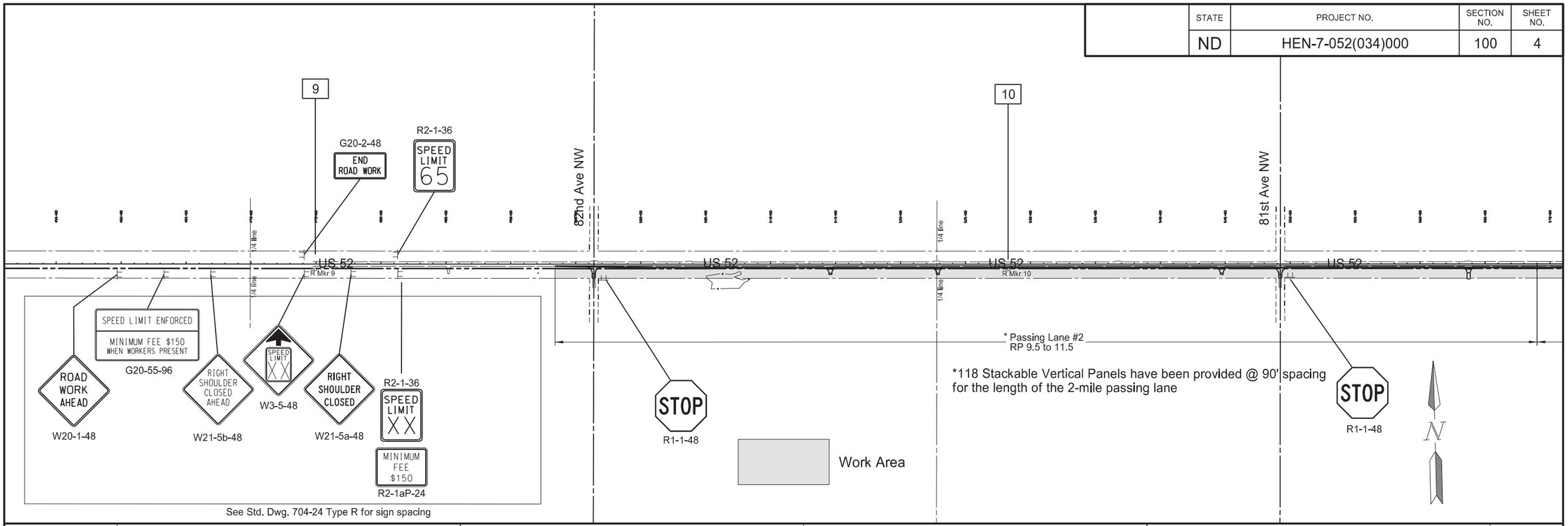
Work Zone Traffic Control
Signing Layout

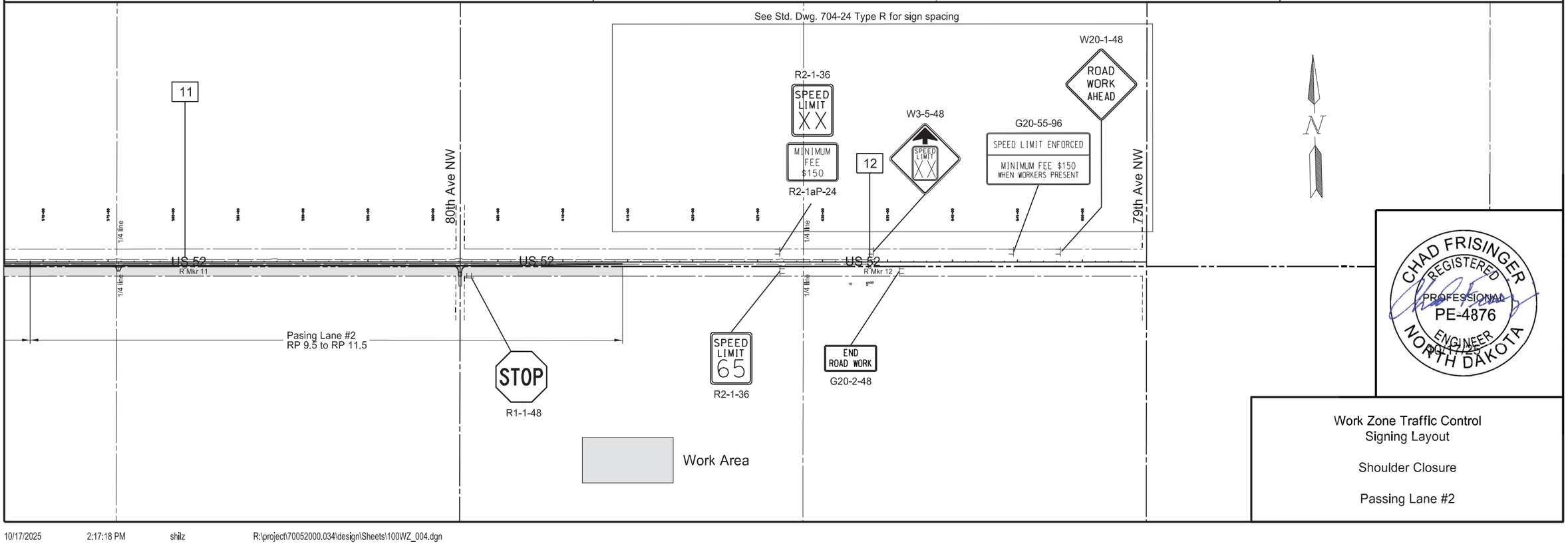
Shoulder Closure

Passing Lane #1

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 4 |




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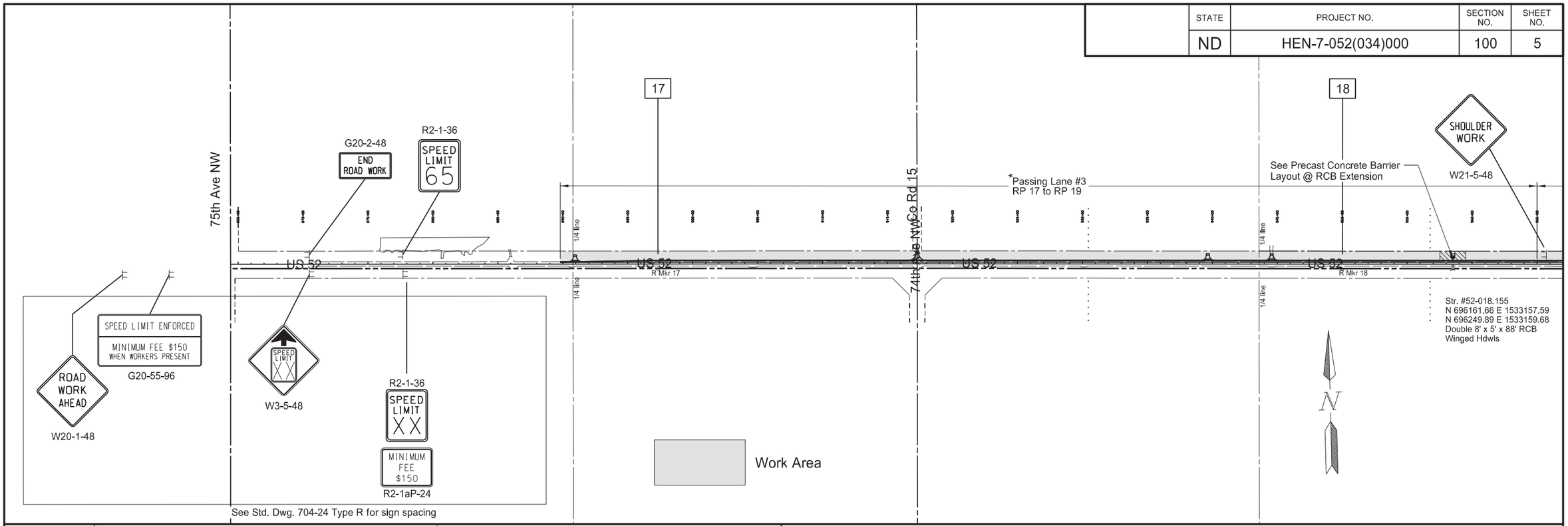
Work Zone Traffic Control
Signing Layout

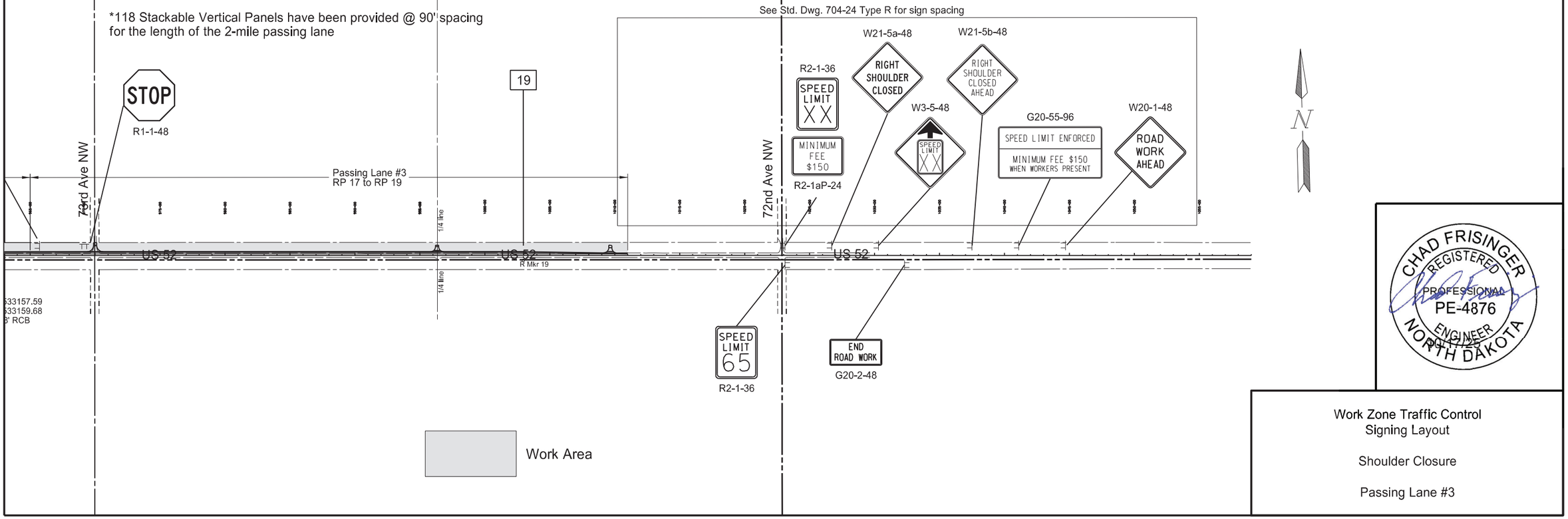
Shoulder Closure

Passing Lane #2

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 5 |




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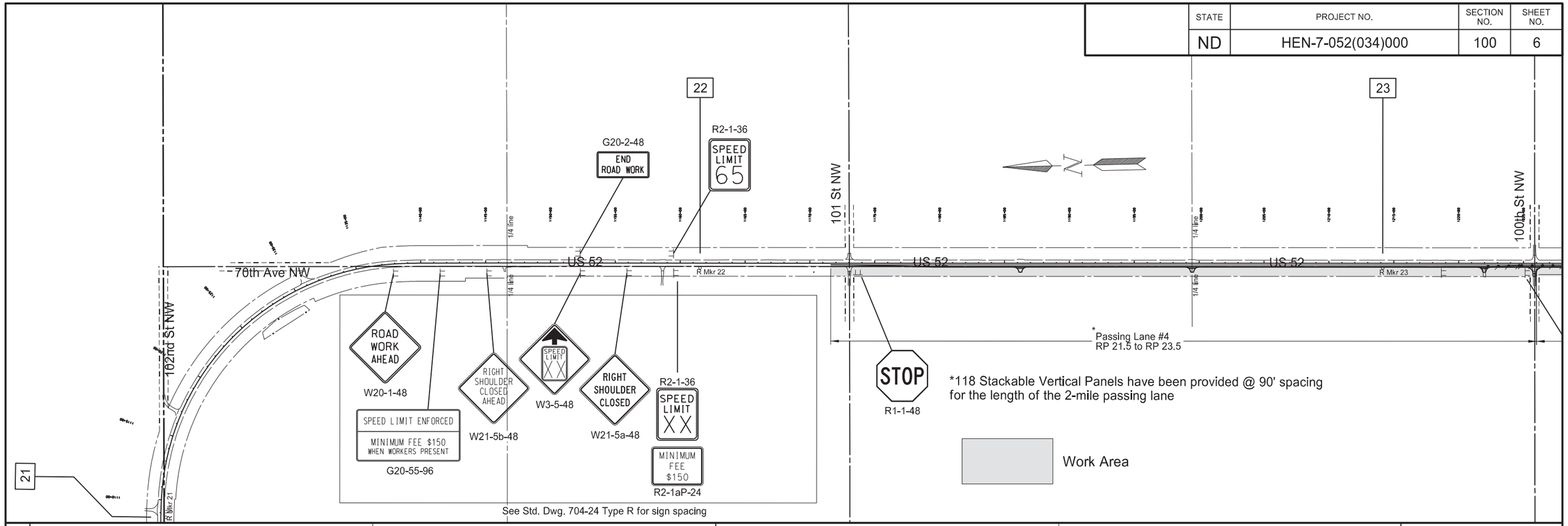
Work Zone Traffic Control
Signing Layout

Shoulder Closure

Passing Lane #3

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 6 |




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Work Zone Traffic Control
Signing Layout

Shoulder Closure

Passing Lanes #4 and #5

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 7 |

*118 Stackable Vertical Panels have been provided @ 90' spacing for the length of the 2-mile passing lane

24

25

R1-1-48

STOP

99th St NW

Passing Lane #5
RP 24.5 to RP 26.5

*Passing Lane #5
RP 24.5 to RP 26.5

1/4 line

US 52

R Mkr 24

R Mkr 25

st Concrete Barrier
RCB Extension

Passing Lane #4
RP 21.5 to RP 23.5

STOP

R1-1-48

Work Area

See Std. Dwg. 704-24 Type R for sign spacing

26

97th St NW

Passing Lane #5
RP 24.5 to RP 26.5

R2-1-36

SPEED LIMIT XX

MINIMUM FEE $150

R2-1aP-24

W21-5a-48

RIGHT SHOULDER CLOSED

W21-5b-48

RIGHT SHOULDER CLOSED AHEAD

W20-1-48

ROAD WORK AHEAD

W3-5-48

SPEED LIMIT XX

G20-55-96

SPEED LIMIT ENFORCED

MINIMUM FEE $150
WHEN WORKERS PRESENT

27

Frontage Rd

8 CFN

R Mkr 22

Sign

SPEED LIMIT 65

R2-1-36

END ROAD WORK

G20-2-48

Work Area

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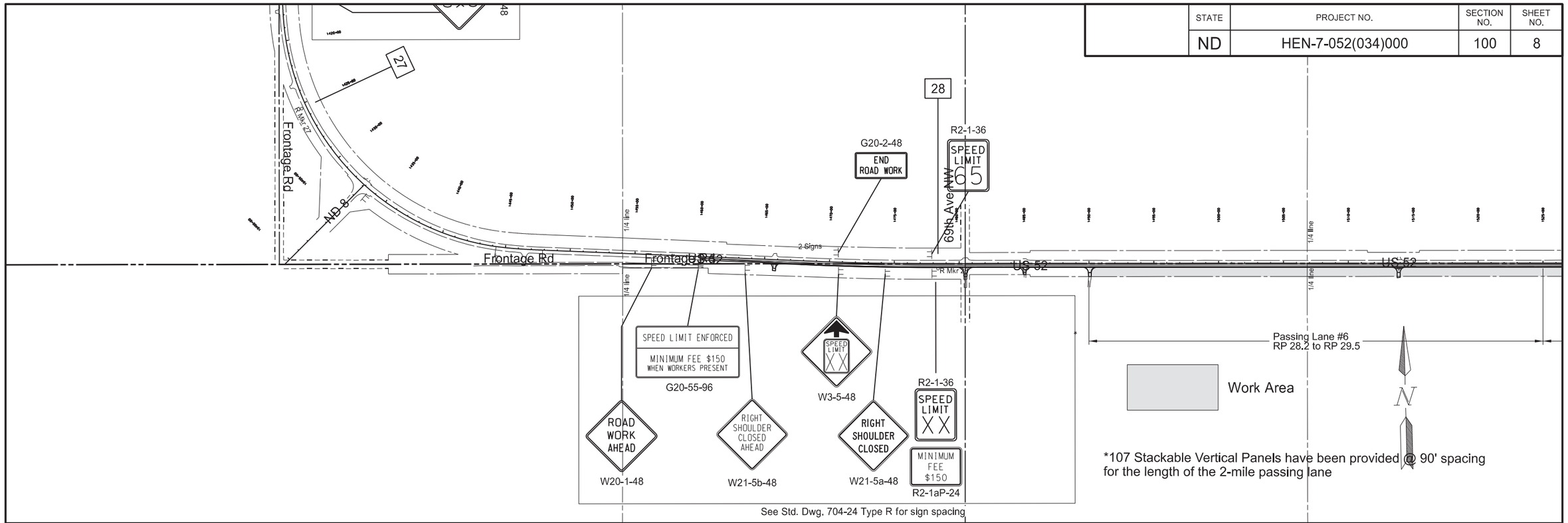
Work Zone Traffic Control
Signing Layout

Shoulder Closure

Passing Lanes #4 and #5

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 8 |




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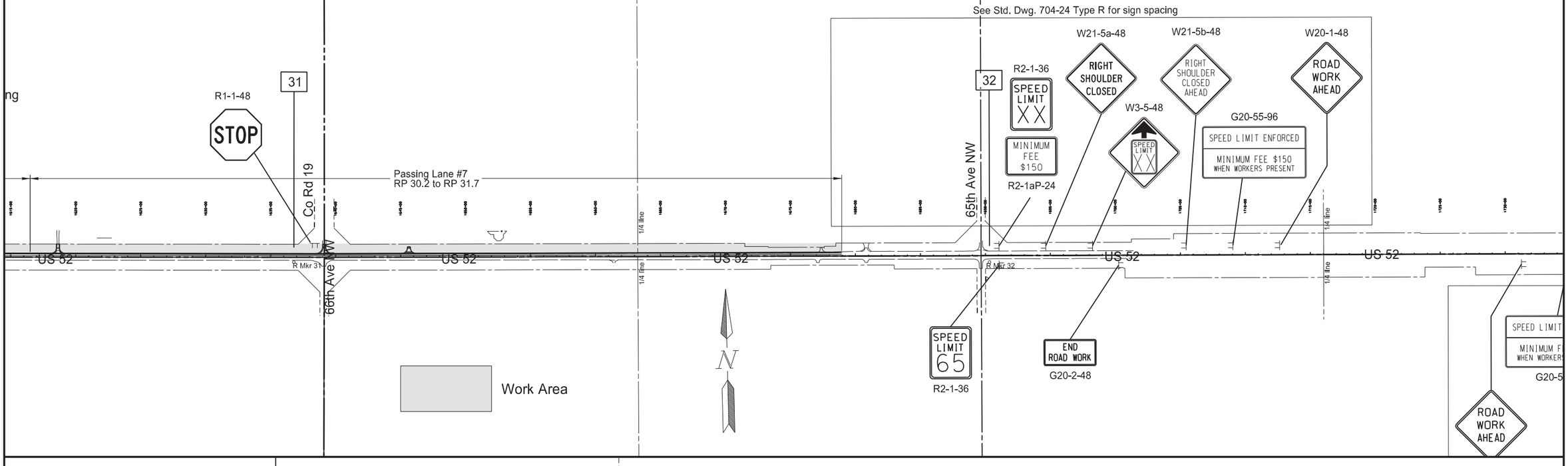
Work Zone Traffic Control
Signing Layout

Shoulder Closure

Passing Lanes #6 and #7

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 9 |




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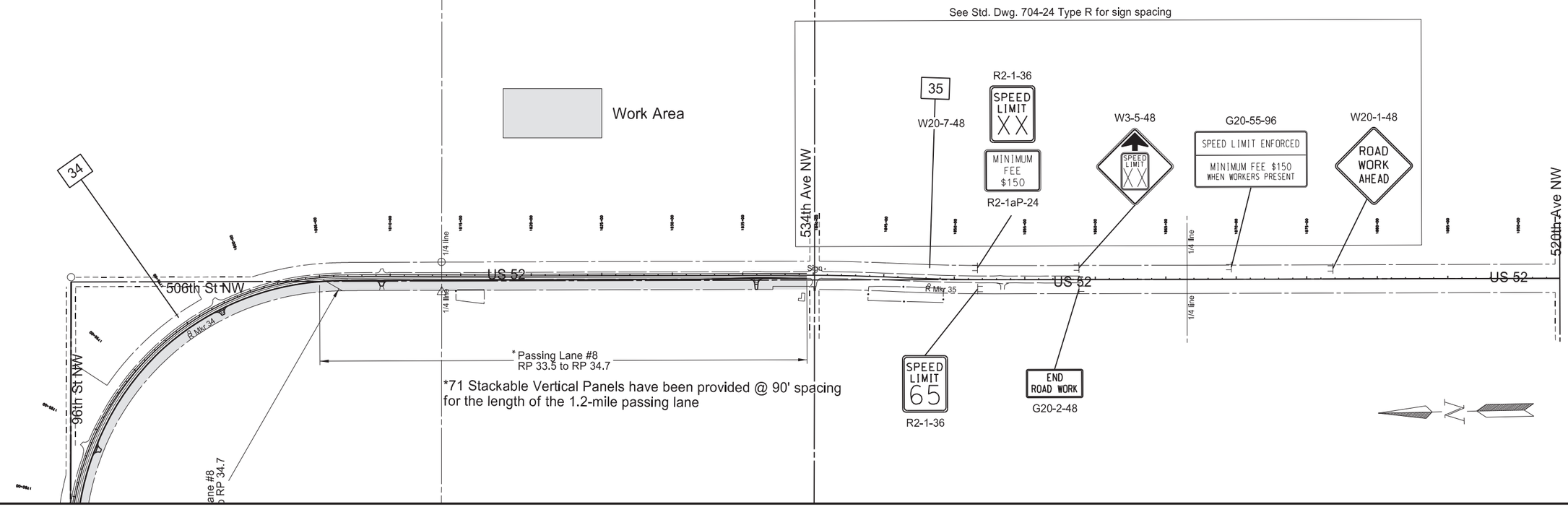
Work Zone Traffic Control
Signing Layout

Shoulder Closure

Passing Lanes #7 and #8

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 100 | 10 |




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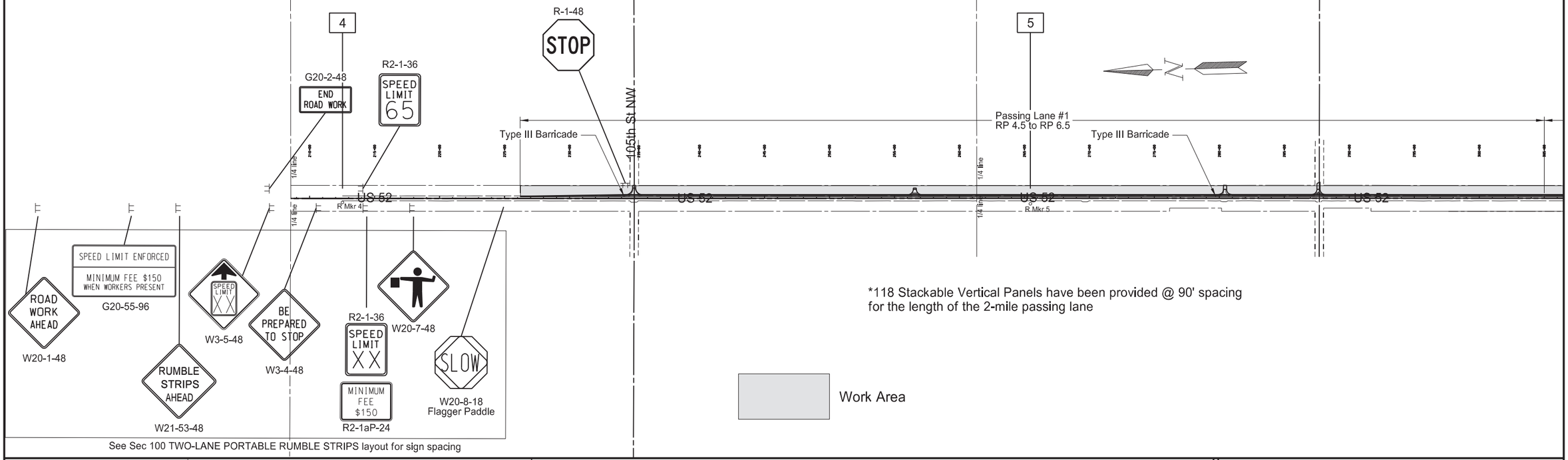
Work Zone Traffic Control
Signing Layout

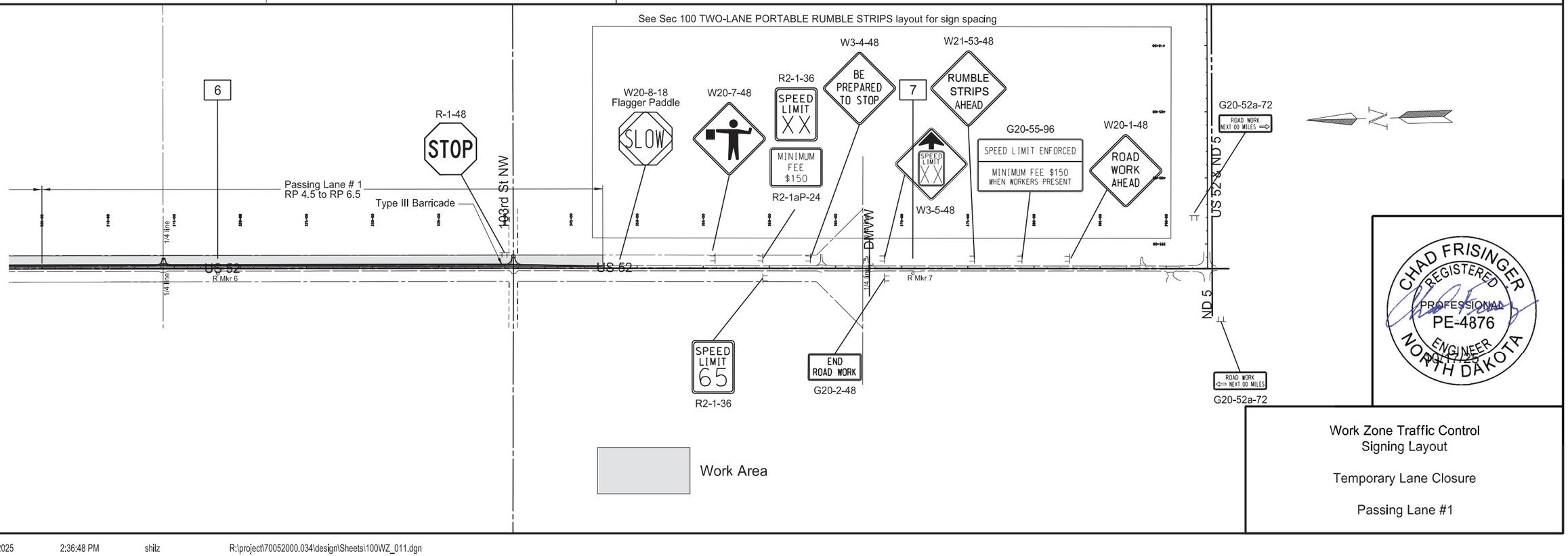
Shoulder Closure

Passing Lane #8

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 11 |




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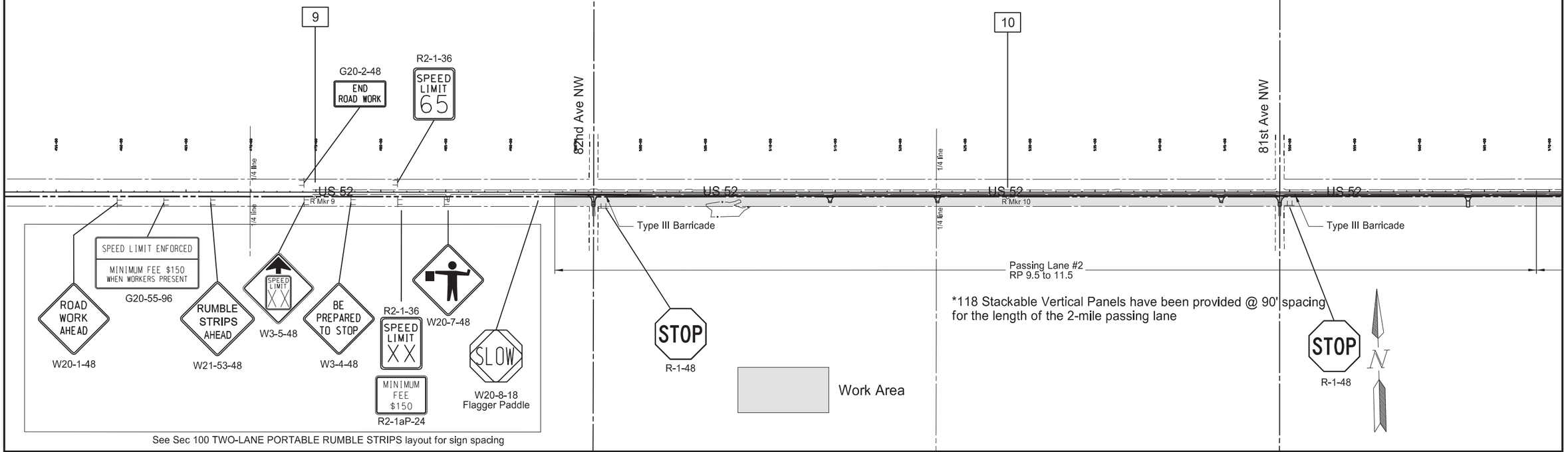
Work Zone Traffic Control
Signing Layout

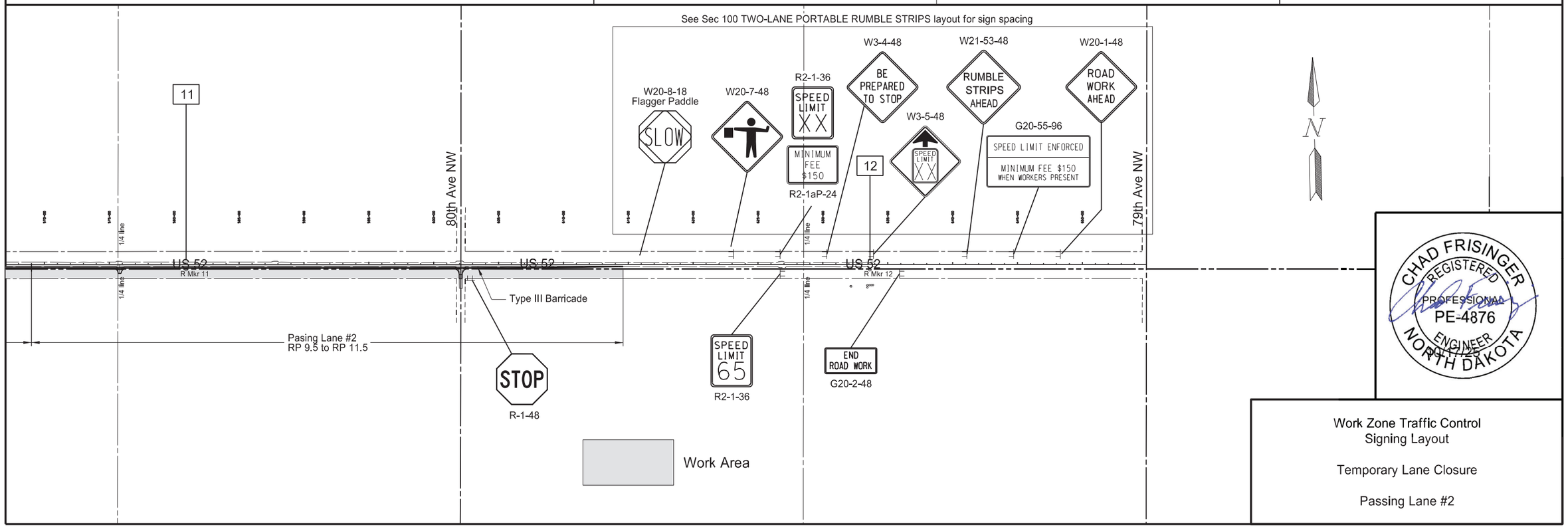
Temporary Lane Closure

Passing Lane #1

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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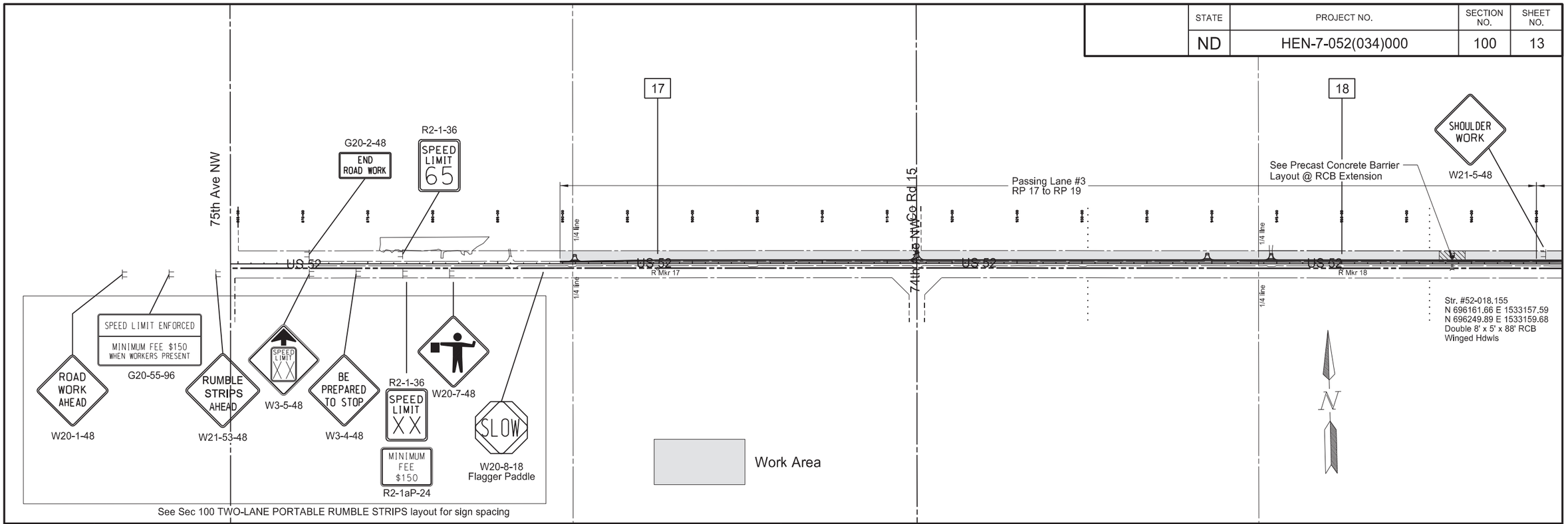
Work Zone Traffic Control
Signing Layout

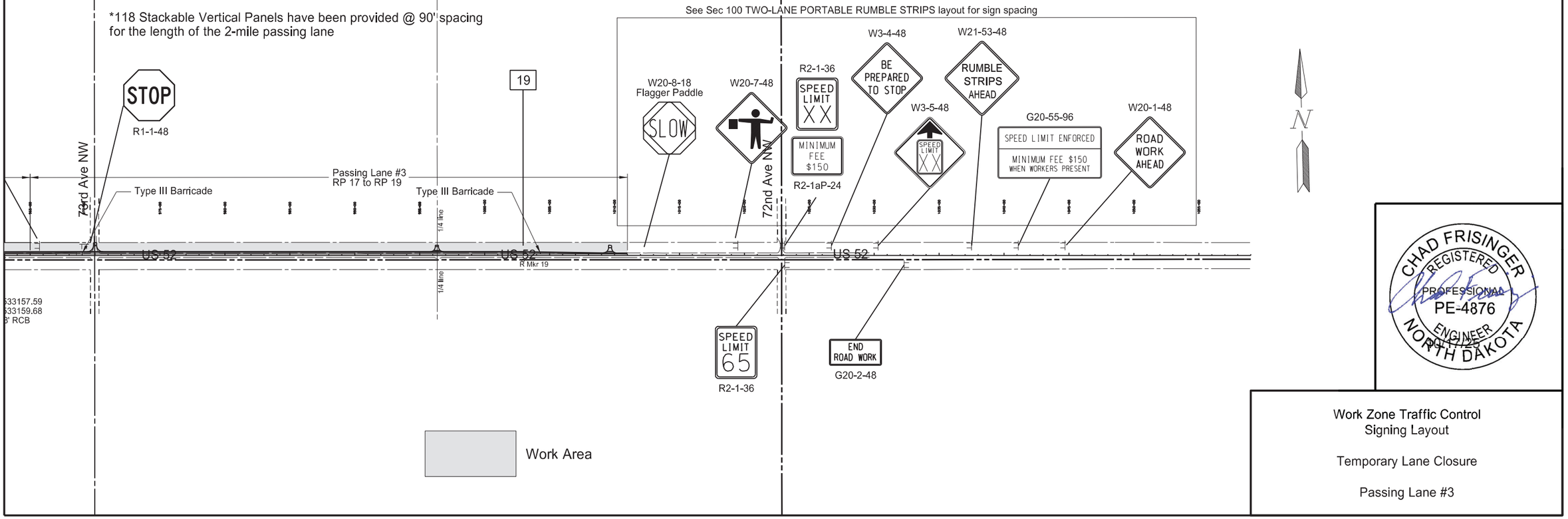
Temporary Lane Closure

Passing Lane #2

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 13 |




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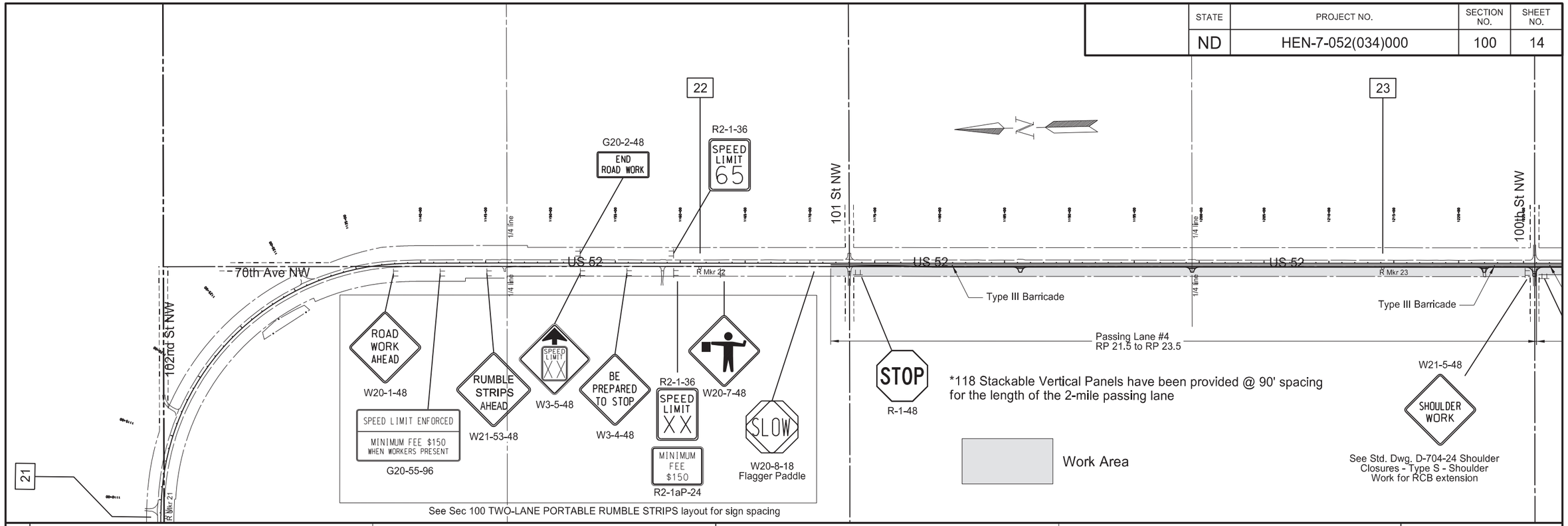
Work Zone Traffic Control
Signing Layout

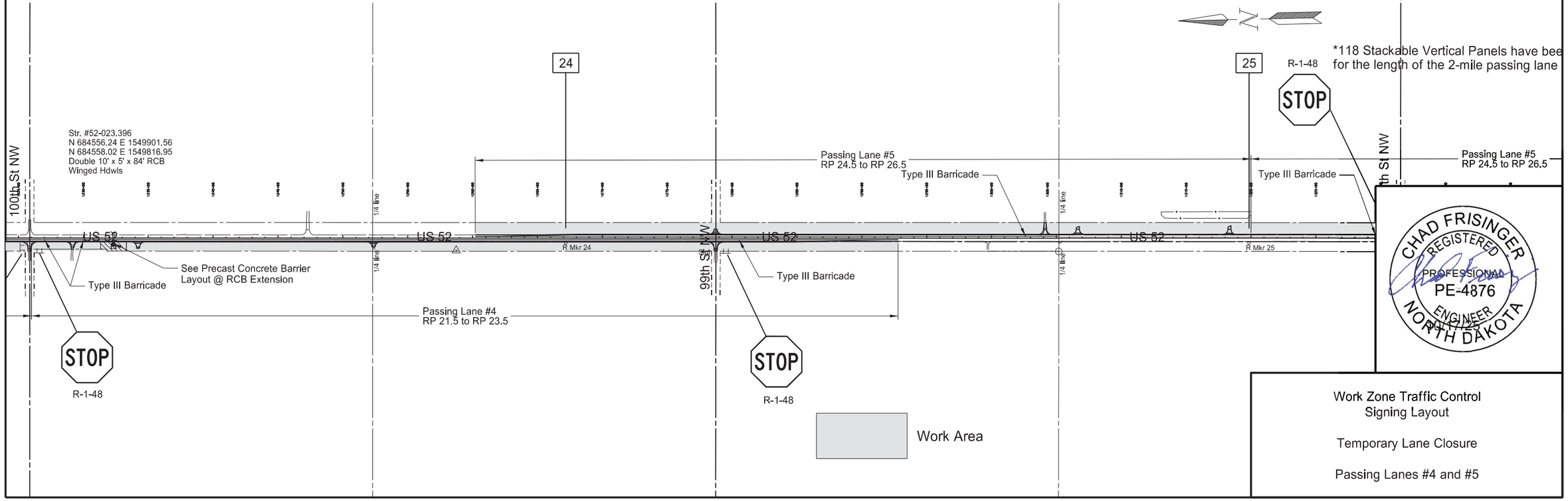
Temporary Lane Closure

Passing Lane #3

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 14 |



Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 15 |

*118 Stackable Vertical Panels have been provided @ 90' spacing for the length of the 2-mile passing lane

24

25

R-1-48

STOP

Passing Lane #5
RP 24.5 to RP 26.5

Type III Barricade

Type III Barricade

99th St NW

98th St NW

Passing Lane #5
RP 24.5 to RP 26.5

1/4 line

US 52

R Mkr 24

R Mkr 25

st Concrete Barrier
RCB Extension

Type III Barricade

Passing Lane #4
RP 21.5 to RP 23.5

STOP

R-1-48

Work Area

See Sec 100 TWO-LANE PORTABLE RUMBLE STRIPS layout for sign spacing

26

Passing Lane #5
RP 24.5 to RP 26.5

Type III Barricade

97th St NW

W20-8-18
Flagger Paddle

SLOW

W20-7-48

R2-1-36
SPEED LIMIT XX

MINIMUM FEE $150

R2-1aP-24

W3-4-48
BE PREPARED TO STOP

W3-5-48
SPEED LIMIT XX

W21-53-48
RUMBLE STRIPS AHEAD

W20-1-48
ROAD WORK AHEAD

G20-55-96
SPEED LIMIT ENFORCED
MINIMUM FEE $150
WHEN WORKERS PRESENT

27

Frontage Rd

8 CN

R Mkr 22

Frontage Rd

US 52

R Mkr 26

Sign

Sign

Sign

SPEED LIMIT 65

R2-1-36

END ROAD WORK

G20-2-48

Work Area

CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA
10/17/25

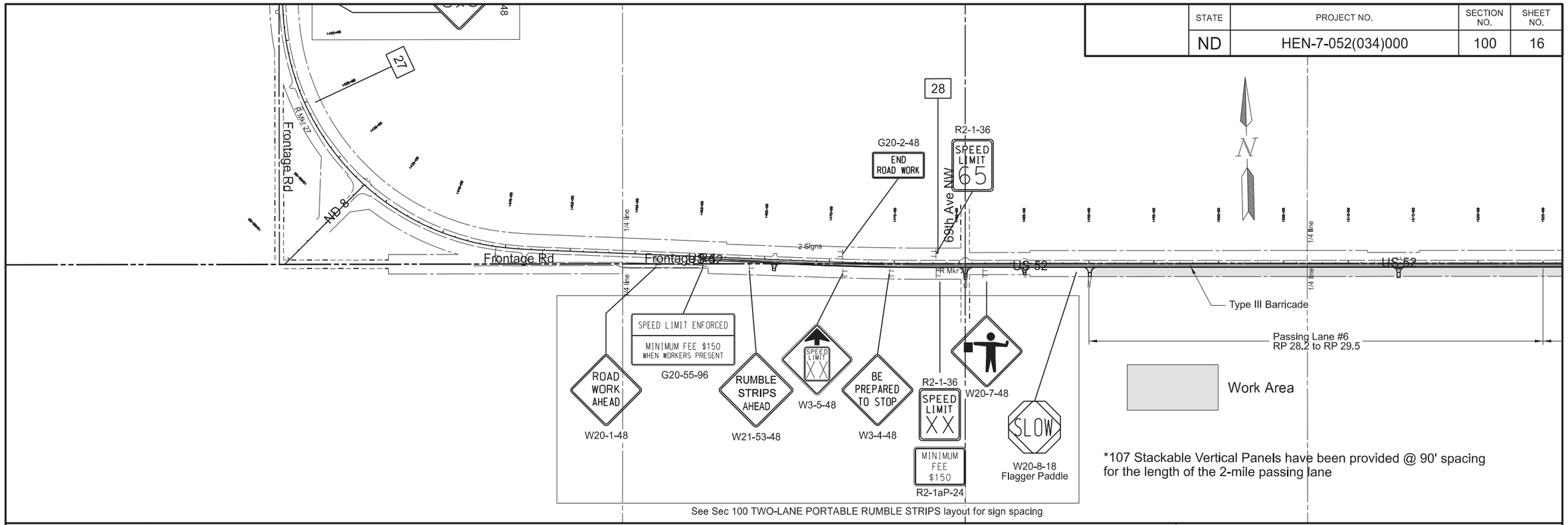
Work Zone Traffic Control
Signing Layout

Temporary Lane Closure

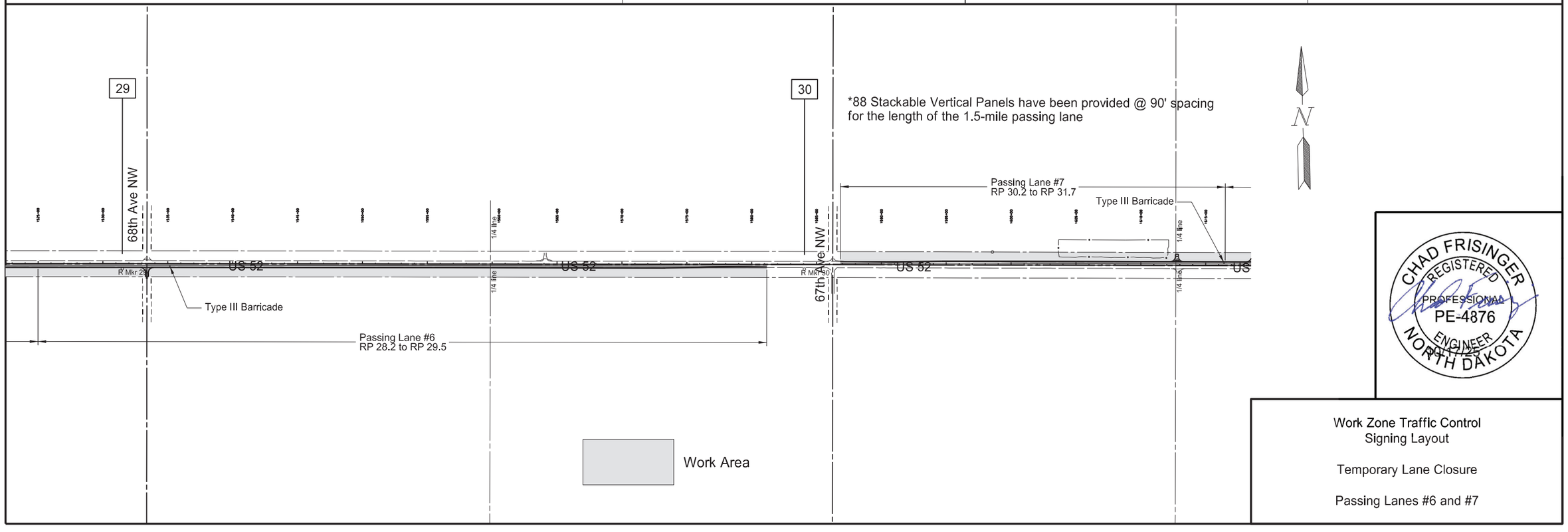
Passing Lanes #4 and #5

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 16 |




See Sec 100 TWO-LANE PORTABLE RUMBLE STRIPS layout for sign spacing




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10/17/25
NORTH DAKOTA

Work Zone Traffic Control
Signing Layout

Temporary Lane Closure

Passing Lanes #6 and #7

Docusign Envelope ID: 4B6AEB1D-0A8B-4DBC-9F90-6642579F7CE5

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 17 |

See Sec 100 TWO-LANE PORTABLE RUMBLE STRIPS layout for sign spacing

ng

R-1-48 STOP

31

Co Rd 19

Passing Lane #7
RP 30.2 to RP 31.7

Type III Barricade

Type III Barricade

W20-8-18 Flagger Paddle

W20-7-48

32

R2-1-36 SPEED LIMIT XX

MINIMUM FEE $150

R2-1aP-24

65th Ave NW

W3-4-48 BE PREPARED TO STOP

W3-5-48 SPEED LIMIT XX

W21-53-48 RUMBLE STRIPS AHEAD

G20-55-96 SPEED LIMIT ENFORCED / MINIMUM FEE $150 WHEN WORKERS PRESENT

W20-1-48 ROAD WORK AHEAD

US 52

R Mkr 31

66th Ave NW

1/4 line

R Mkr 32

SPEED LIMIT 65

R2-1-36

END ROAD WORK

G20-2-48

SPEED LIMIT

MINIMUM F

WHEN WORKER

G20-5

ROAD WORK AHEAD

Work Area

N

33

G20-2-48 END ROAD WORK

R2-1-36 SPEED LIMIT 65

Type III Barricade

R Mkr 33

96th St NW

34

Passing Lane #8
RP 33.5 to RP 34.7

R Mkr 34

56th St NW

Type III Barricade

SPEED LIMIT ENFORCED / MINIMUM FEE $150 WHEN WORKERS PRESENT

G20-55-96

W20-1-48 ROAD WORK AHEAD

W21-53-48 RUMBLE STRIPS AHEAD

W3-5-48 SPEED LIMIT XX

W3-4-48 BE PREPARED TO STOP

R2-1-36 SPEED LIMIT XX

MINIMUM FEE $150

R2-1aP-24

W20-7-48

W20-8-18 Flagger Paddle

SLOW

See Sec 100 TWO-LANE PORTABLE RUMBLE STRIPS layout for sign spacing

CHAD FRISINGER
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ENGINEER
NORTH DAKOTA

Work Zone Traffic Control
Signing Layout

Temporary Lane Closure

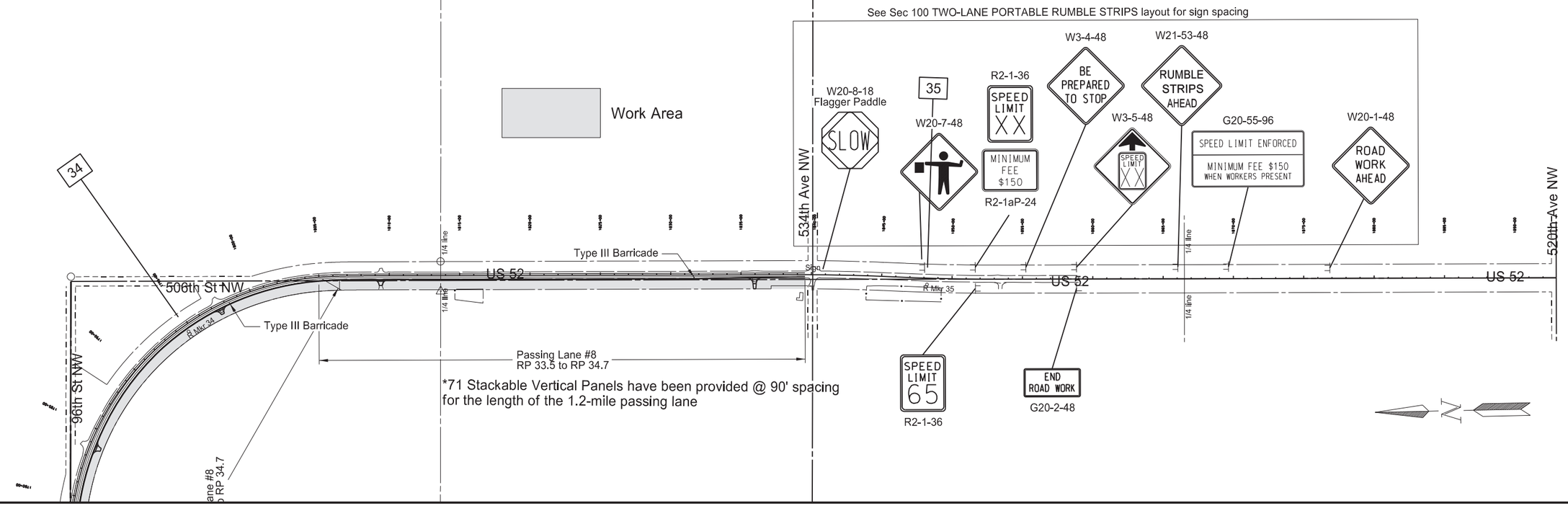
Passing Lanes #7 and #8

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 100 | 18 |

See Sec 100 TWO-LANE PORTABLE RUMBLE STRIPS layout for sign spacing




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NORTH DAKOTA
10/17/25

Work Zone Traffic Control
Signing Layout

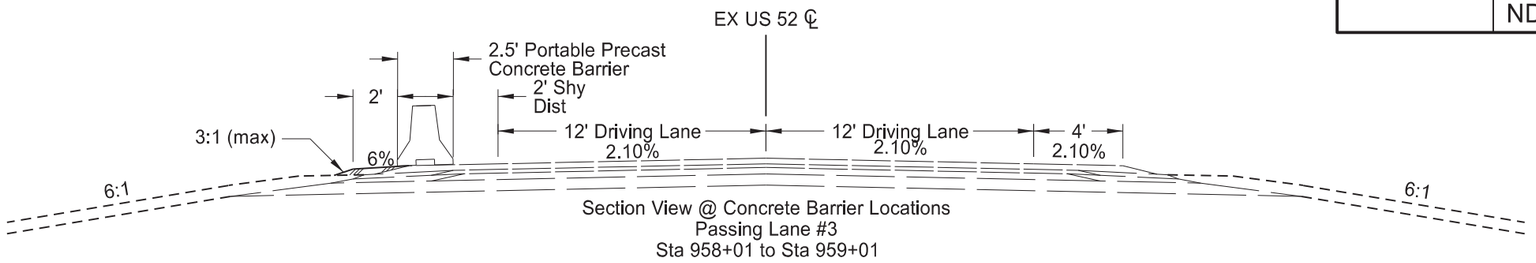
Temporary Lane Closure

Passing Lane #8

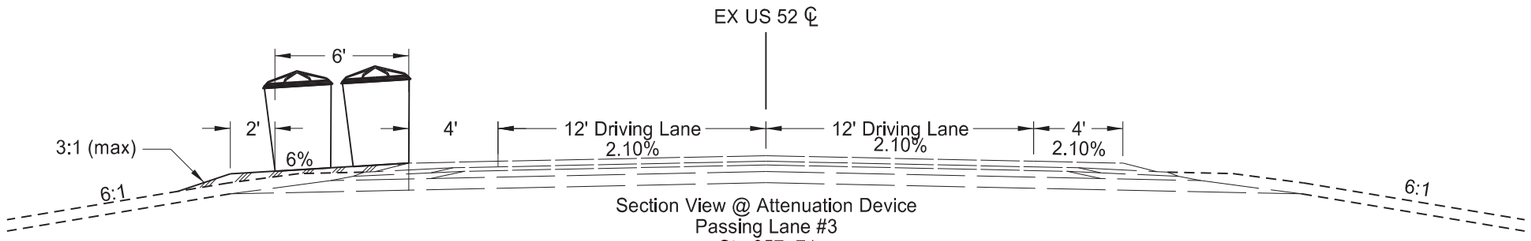
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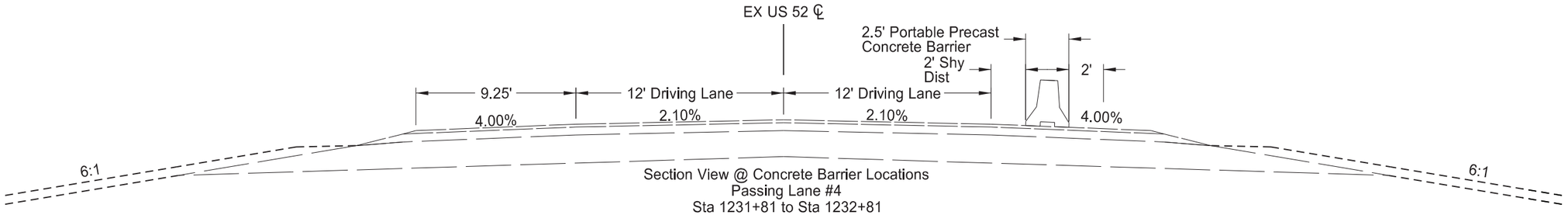
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|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 100 | 19 |



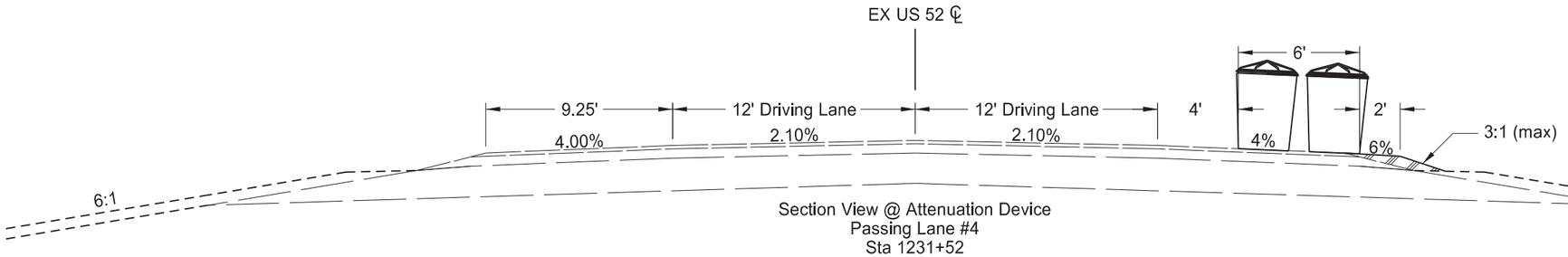

Section View @ Concrete Barrier Locations
Passing Lane #3
Sta 958+01 to Sta 959+01




Section View @ Attenuation Device
Passing Lane #3
Sta 957+71
Sta 959+31




Section View @ Concrete Barrier Locations
Passing Lane #4
Sta 1231+81 to Sta 1232+81



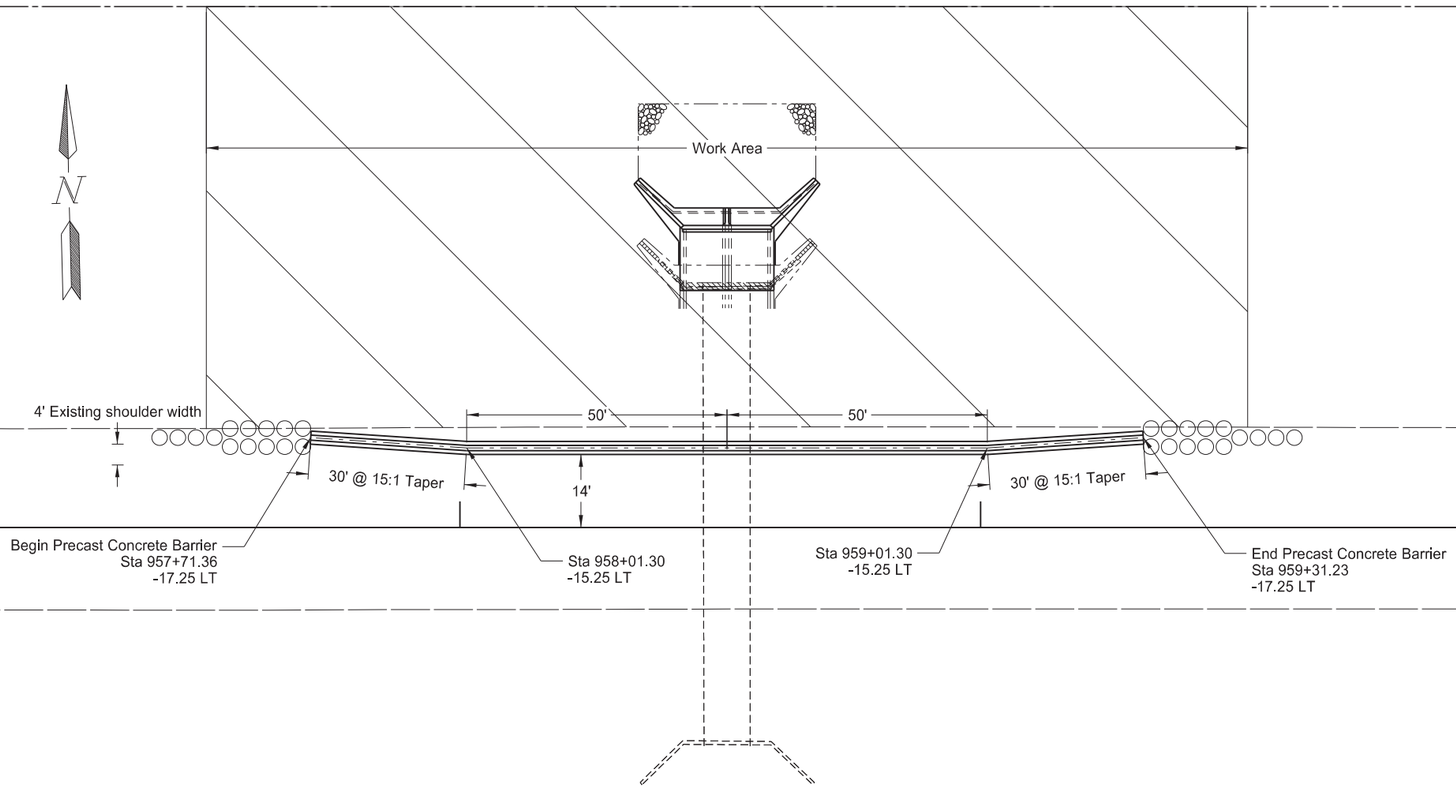

Section View @ Attenuation Device
Passing Lane #4
Sta 1231+52
Sta 1233+12




US 52
Work Zone Traffic Control
Typical Sections using Precast Concrete Barriers

Docusign Envelope ID: 39F74868-4506-42FF-8EA0-7382AA405BA2

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 100 | 20 |



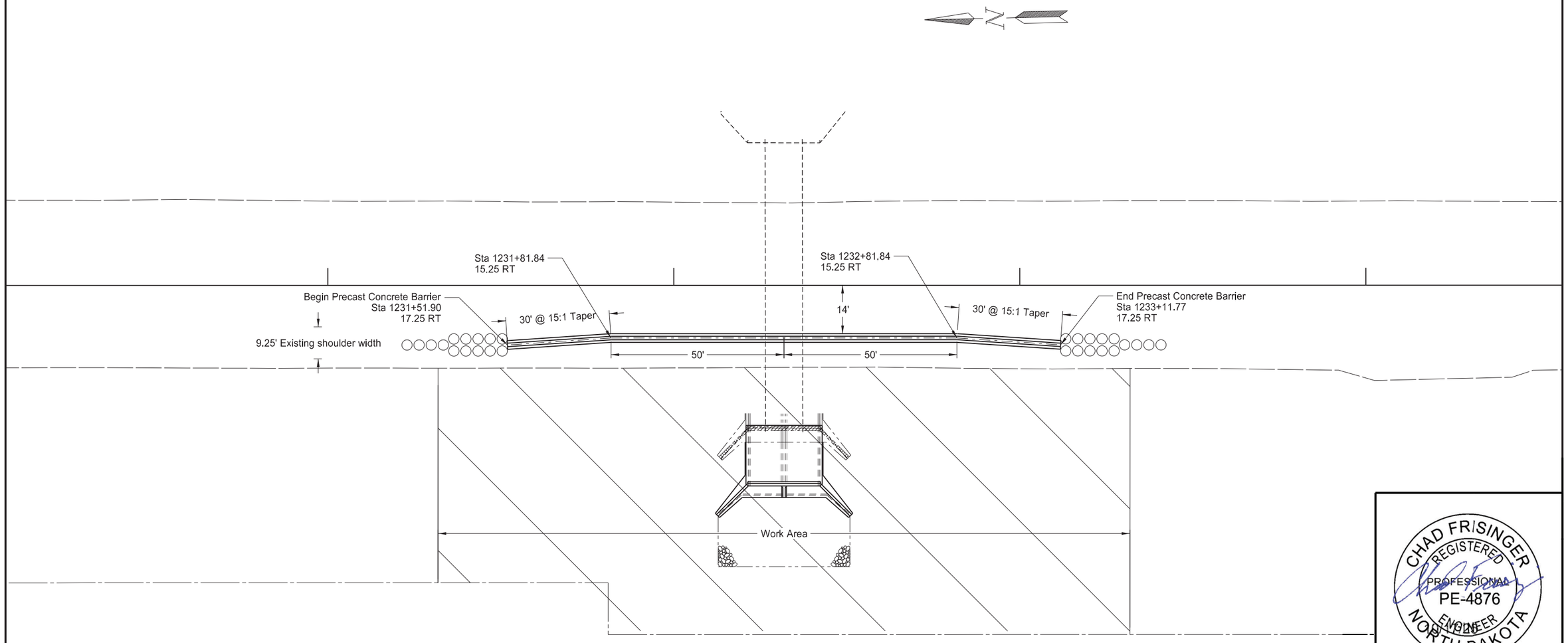

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PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

Work Zone Traffic Control
Precast Concrete Barrier Layout

RCB Extension within Passing Lane #3
Sta 956+51.3
#52-018.155

Docusign Envelope ID: 39F74868-4506-42FF-8EA0-7382AA405BA2

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 100 | 21 |




CHAD FRISINGER
REGISTERED
PROFESSIONAL
PE-4876
ENGINEER
NORTH DAKOTA

Work Zone Traffic Control
Precast Concrete Barrier Layout

RCB Extension within Passing Lane #4
Sta 1232+31.80
#52-023.396

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| N.D. | HEN-7-052(034)000 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 234+54 Lt | | | | | 13.2 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.4 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 246+00 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 252+00 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 337+60 Lt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 340+25 Lt | | | | | 13.2 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.4 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 349+90 Lt | | 9 | | 5.0 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 440+60 Rt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.5 x 2.5 12 ga | 13.7 | 4.3 | | | | 2.25 x 2.25 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 490+90 Rt | | 9 | | 5.0 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 496+73 Rt | | | | | 13.2 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.4 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 503+20 Rt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 549+56 Rt | | | | | 13.2 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.4 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 588+80 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 594+80 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 602+47 Rt | | | | | 11.8 | | | | 5.0 | 2.25 x 2.25 12 ga | 13.2 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | 1 | | | |
| 629+60 Rt | S.A.B | | 14.0 | | 12.9 | | | | 5.0 | 2.5 x 2.5 10 ga | 15.0 | 3.7 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 895+09 Lt | | | | | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.8 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 909+60 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 915+60 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 969+65 Lt | | 1 | | 5.2 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 13.7 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1001+20 Lt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 1013+50 Lt | | 9 | | 5.0 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1063+80 Lt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.5 x 2.5 12 ga | 13.7 | 4.3 | | | | 2.25 x 2.25 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1118+80 Rt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.5 x 2.5 12 ga | 13.7 | 4.3 | | | | 2.25 x 2.25 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1169+10 Rt | | 9 | | 5.0 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1173+33 Rt | | | | | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 13.7 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | 1 | | | |
| 1181+41 Rt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 1226+15 Rt | | | | | 13.2 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.4 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 1245+20 Lt | S.A.B | | 14.0 | | 12.9 | | | | 5.0 | 2.5 x 2.5 10 ga | 15.0 | 3.7 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1267+00 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1272+20 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1273+00 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1277+70 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1278+41 Lt | | | | | 11.2 | | | | 5.0 | 2 x 2 12 ga | 15.6 | | | | | | 1 | 4 | 2.25 x 2.25 12 ga | 1 | | | |
| 1279+03 Rt | | | | | 11.8 | | | | 5.0 | 2.25 x 2.25 12 ga | 13.2 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | 1 | | | |

REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

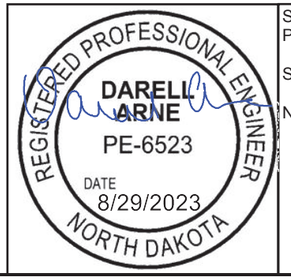
Sign Summary
Perforated Tube

State Line to E JCT ND 5

ND Hwy 52

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| N.D. | HEN-7-052(034)000 | 110 | 2 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1307+80 Rt | S.A.B | | 14.0 | | 12.9 | | | | 5.0 | 2.5 x 2.5 10 ga | 15.0 | 3.7 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1331+27 Lt | | | | | 13.2 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.4 | 4.1 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | 1 | | 1 | |
| 1371+60 Lt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 1383+80 Lt | | 9 | | 5.0 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1434+20 Lt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.5 x 2.5 12 ga | 13.7 | 4.3 | | | | 2.25 x 2.25 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1436+95 Rt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.25 x 2.25 12 ga | 13.7 | 4.3 | | | | 2.5 x 2.5 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1487+51 Rt | | 9 | | 5.0 | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1499+81 Rt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 1555+37 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1561+37 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1571+83 Lt | S.A.B | | 14.0 | | 12.9 | | | | 5.0 | 2.5 x 2.5 10 ga | 15.0 | 3.7 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1580+93 Rt | SN 2 | | 13.5 | | 12.1 | | | | 5.0 | 2.5 x 2.5 10 ga | 14.1 | 3.6 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1591+49 Lt | SN 3 | | 13.5 | | 12.1 | | | | 5.0 | 2.5 x 2.5 10 ga | 14.1 | 3.6 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1596+18 Rt | S.A.B | | 14.0 | | 12.9 | | | | 5.0 | 2.5 x 2.5 10 ga | 15.0 | 3.7 | | | | 2.19 x 2.19 10 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1598+83 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1604+83 Lt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1638+80 Lt | | | | | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 13.7 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | 1 | | | |
| 1639+54 Lt | | | | | 11.1 | | | | 5.0 | 2 x 2 12 ga | 14.9 | | | | | | 1 | 4 | 2.25 x 2.25 12 ga | 1 | | | |
| 1644+87 Lt | | | | | 13.8 | 14.3 | | | 5.0 | 2.25 x 2.25 12 ga | 15.4 | 4.0 | 4.5 | | | 2 x 2 12 ga | 2 | 4 | 3 x 3 7 ga | 1 | | 2 | |
| 1670+50 Rt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.5 x 2.5 12 ga | 13.7 | 4.3 | | | | 2.25 x 2.25 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1706+16 Lt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 1718+50 Lt | | 9 | 5.0 | | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1721+13 Rt | | 9 | 5.0 | | 12.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 15.0 | | | | | | 1 | 4 | 2.5 x 2.5 12 ga | | | | |
| 1728+96 Rt | SN 1 | | | 16.5 | 11.8 | 12.6 | | | 5.0 | 2.5 x 2.5 10 ga | 13.3 | | | | | | 2 | 4 | 3 x 3 7 ga | | | 2 | |
| 1766+05 Lt | S.A.A | | | 12.3 | 12.8 | | | | 5.0 | 2.5 x 2.5 12 ga | 13.7 | 4.3 | | | | 2.25 x 2.25 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1769+50 Rt | | | | | 13.0 | | | | 5.0 | 2.5 x 2.5 12 ga | 14.4 | | | | | | 1 | 4 | 3 x 3 7 ga | 1 | | | |
| 1813+74 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| 1819+74 Rt | | 20 | | 9.0 | 13.3 | | | | 5.0 | 2.25 x 2.25 12 ga | 14.1 | 4.5 | | | | 2 x 2 12 ga | 1 | 4 | 3 x 3 7 ga | | | 1 | |
| **Sub Total** | | | 107.0 | 397.3 | | **Total** | 901.1 | | | | | | | | | | **Total** | 284.0 | | 15 | 0 | 55 | |
| **Grand Total** | | | **107.0** | **397.3** | | **Total** | **901.1** | | | | | | | | | | **Total** | **284** | **0** | **15** | **0** | **55** | |

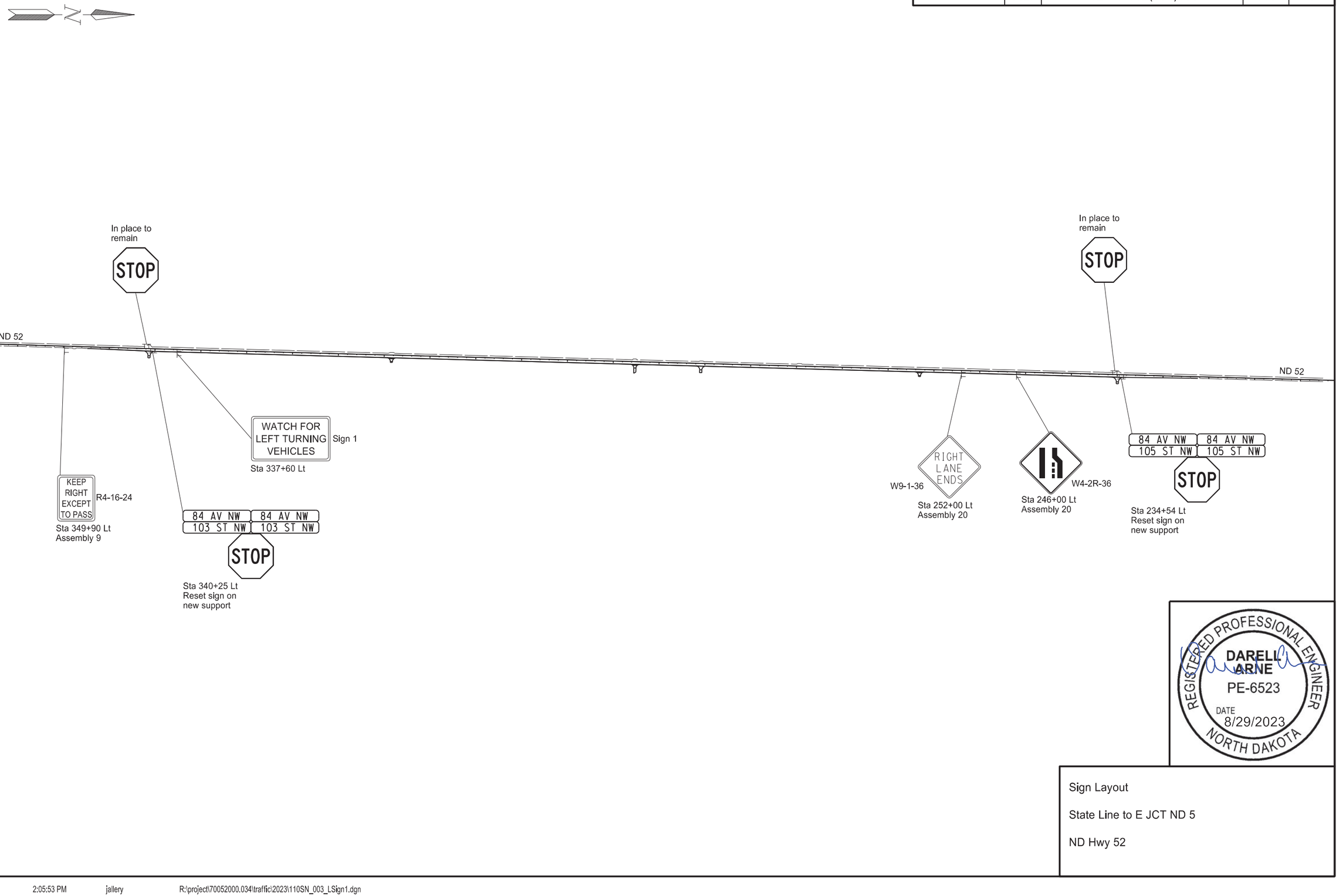



Sign Summary
Perforated Tube

State Line to E JCT ND 5

ND Hwy 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 3 |



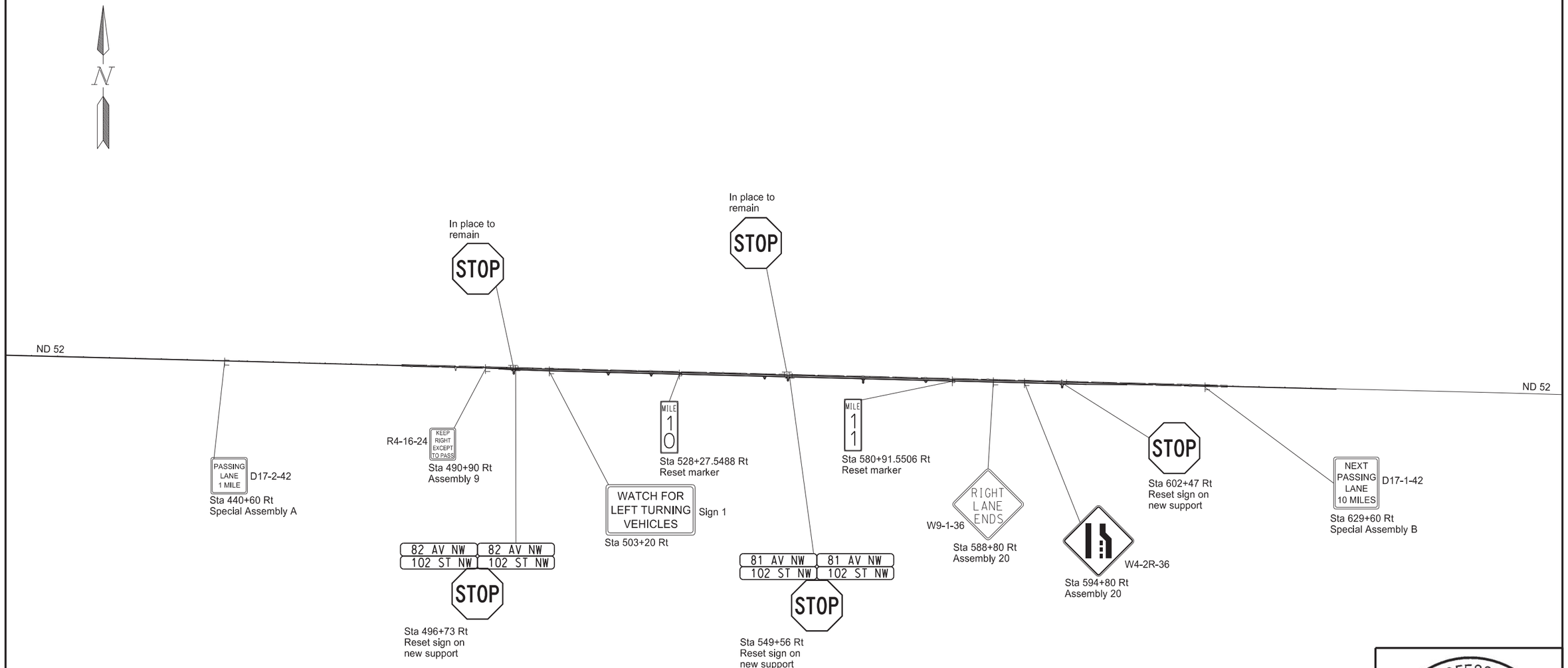

REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

Sign Layout

State Line to E JCT ND 5

ND Hwy 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 4 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 754 | 0596 | RESET MILE POST | | |
| | | Sta 528+27.5488 Rt | 1 | EA |
| | | Sta 580+91.5506 Rt | 1 | EA |
| | | Total | 2 | EA |

REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

Sign Layout

State Line to E JCT ND 5

ND Hwy 52

8/23/2023 2:05:56 PM jallery R:\project\70052000.034\traffic\2023\110SN_004_LSign2.dgn

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 5 |

N

ND 8

ND 52

Sta 895+09 Lt
Reset sign on new support

JCT

BURKE 15 COUNTY

Sta 909+60 Lt
Assembly 20

W4-2R-36

Sta 915+60 Lt
Assembly 20

RIGHT LANE ENDS

W9-1-36

Sta 969+65 Lt
Assembly 1

R1-1-30 STOP

Sta 969+73 Lt
Remove

STOP

Sta 1001+20 Lt

Sign 1 WATCH FOR LEFT TURNING VEHICLES

Sta 1013+50 Lt
Assembly 9

KEEP RIGHT EXCEPT TO PASS R4-16-24

Sta 1063+80 Lt
Special Assembly A

D17-2-42 PASSING LANE 1 MILE

STOP

In place to remain

STOP

In place to remain

D17-2-42 PASSING LANE 1 MILE

Sta 1118+80 Rt
Special Assembly A

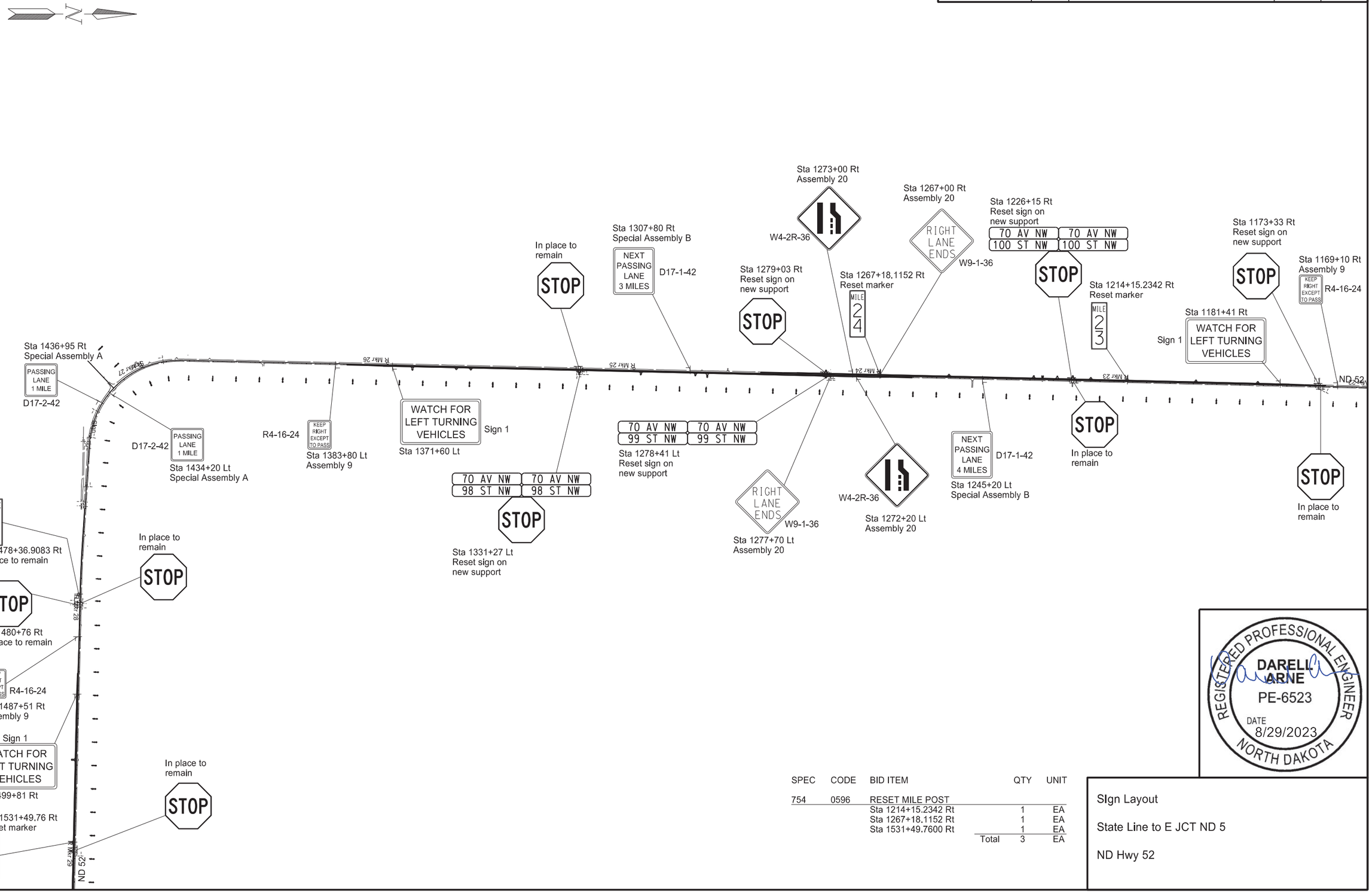
REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

Sign Layout

State Line to E JCT ND 5

ND Hwy 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 6 |




| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 754 | 0596 | RESET MILE POST | | |
| | | Sta 1214+15.2342 Rt | 1 | EA |
| | | Sta 1267+18.1152 Rt | 1 | EA |
| | | Sta 1531+49.7600 Rt | 1 | EA |
| | | Total | 3 | EA |

REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

SIgn Layout

State Line to E JCT ND 5

ND Hwy 52

8/29/2023 9:29:17 AM jallery R:\project\70052000.034\traffic\2023\110SN_006_LSign4.dgn

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 7 |

N

ND 52

Sta 1591+49 Lt
Sign 3
Golf Course

Sta 1591+49 Lt
Remove

Sta 1571+83 Lt
Special Assembly B
NEXT PASSING LANE 4 MILES D17-1-42

Sta 1598+83 Lt
Assembly 20
W4-2R-36

Sta 1604+83 Lt
Assembly 20
RIGHT LANE ENDS W9-1-36

Sta 1639+54 Lt
Reset sign on new support
66 AV NW / 96 ST NM

Sta 1638+80 Lt
Reset sign on new support
STOP

Sta 1644+87 Lt
Reset sign on new support
JCT JCT
WARD 1 COUNTY
BURKE 19 COUNTY

Sta 1685+49 Lt
Remove

Sta 1692+56 Rt
Remove
RIGHT LANE ENDS

Sta 1706+16 Lt
WATCH FOR LEFT TURNING VEHICLES Sign 1

Sta 1707+35 Lt
Remove
SLOWER TRAFFIC KEEP RIGHT

Sta 1718+50 Lt
Assembly 9
KEEP RIGHT EXCEPT TO PASS R4-16-24

Sta 1766+05 Lt
Special Assembly A
PASSING LANE 1 MILE D17-2-42

In place to remain
STOP

In place to remain
STOP

RIGHT LANE ENDS W9-1-36
Sta 1555+37 Rt
Assembly 20

W4-2R-36
Sta 1561+37 Rt
Assembly 20

Sta 1580+93 Rt
Remove

Golf Course Sign 2
Sta 1580+93 Rt

MILE 30
Sta 1584+06.4128 Rt
Reset marker

NEXT PASSING LANE 2 MILES D17-1-42
Sta 1596+18 Rt
Special Assembly B

STOP
In place to remain

PASSING LANE 1 MILE D17-2-42
Sta 1670+50 Rt
Special Assembly A

SLOWER TRAFFIC KEEP RIGHT
Sta 1719+00 Rt
Remove

KEEP RIGHT EXCEPT TO PASS R4-16-24
Sta 1721+13 Rt
Assembly 9

RIGHT LANE ENDS
Sta 1750+10 Rt
Remove

Sta 1756+80 Rt
Remove

Sta 1769+50 Rt
Reset sign on new support

MILE 34
Sta 1794+71.7452 Rt
Reset marker

WATCH FOR LEFT TURNING VEHICLES Sign 1
Sta 1728+96 Rt

Sta 1813+74 Rt
Assembly 20
RIGHT LANE ENDS W9-1-36

In place to remain
STOP

Sta 1819+74 Rt
Assembly 20
W4-2R-36

ND 52

REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

| SPEC | CODE | BID ITEM | QTY | UNIT |
|---|---|---|---|---|
| 754 | 0596 | RESET MILE POST | | |
| | | Sta 1584+06.4128 Rt | 1 | EA |
| | | Sta 1794+71.7452 Rt | 1 | EA |
| | | Total | 2 | EA |

Sign Layout

State Line to E JCT ND 5

ND Hwy 52

8/23/2023 2:28:21 PM jallery R:\project\70052000.034\traffic\2023\110SN_007_LSign5.dgn

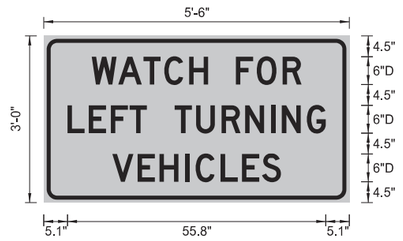
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 8 |

| | |
|---|---|
| SIGN NUMBER | Sign 1 |
| WIDTH X HEIGHT | 5'-6" x 3'-0" |
| BORDER WIDTH | 0.88" (inset 0.63") |
| CORNER RADIUS | 2.25" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: XI Reflective |
| | COLOR: Yellow |
| LEGEND/BORDER | TYPE: Non-Reflective |
| | COLOR: Black |

| SYMBOL | X | Y | WID | HT | ANGLE |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

STATION(S):
Various Locations

AREA: 16.5 Sq.Ft.




Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_Warn_36_Med.ssl

| LETTER POSITION (X) | | | | | | | | | | | | | | | | | | | LENGTH | SIZE | SERIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | A | T | C | H | | F | O | R | | | | | | | | | | | 45.3 | 6 | D 2000 |
| 10.4 | 16.1 | 21.5 | 26 | 31.4 | 35.5 | 41.5 | 46 | 51.6 | | | | | | | | | | | | | |
| L | E | F | T | | T | U | R | N | I | N | G | | | | | | | | 55.8 | 6 | D 2000 |
| 5.1 | 9.7 | 14.5 | 18.5 | 22.3 | 28.3 | 32.9 | 38.4 | 43.5 | 49 | 51.4 | 56.8 | | | | | | | | | | |
| V | E | H | I | C | L | E | S | | | | | | | | | | | | 36.4 | 6 | D 2000 |
| 14.8 | 20.3 | 25 | 30.5 | 32.8 | 38.2 | 42.8 | 47.1 | | | | | | | | | | | | | | |

| | |
|---|---|
| SIGN NUMBER | Sign 2 |
| WIDTH X HEIGHT | 4'-6" x 3'-0" |
| BORDER WIDTH | 0.75" (inset 0") |
| CORNER RADIUS | 3" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: IV Reflective |
| | COLOR: Brown |
| LEGEND/BORDER | TYPE: IV Reflective |
| | COLOR: White |

| SYMBOL | X | Y | WID | HT | ANGLE |
|---|---|---|---|---|---|
| ND_6IN_TYPE D | 34.5 | 10.5 | 6 | 9 | 270 |
| RS-128 | 10.5 | 4.5 | 18 | 18 | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

STATION(S):
1580+93 Rt

AREA: 13.5 Sq.Ft.




Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_Conv_Recreation_Cultural.ssl

| LETTER POSITION (X) | | | | | | | | | | | | | | | | | | | LENGTH | SIZE | SERIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G | o | l | f | C | o | u | r | s | e | | | | | | | | | | 42 | 6/4.5 | D 2000 |
| 6 | 11 | 15.7 | 17.5 | 24.1 | 29.2 | 33.7 | 38.5 | 41.1 | 44.5 | | | | | | | | | | | | |

| | |
|---|---|
| SIGN NUMBER | Sign 3 |
| WIDTH X HEIGHT | 4'-6" x 3'-0" |
| BORDER WIDTH | 0.75" (inset 0") |
| CORNER RADIUS | 3" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: IV Reflective |
| | COLOR: Brown |
| LEGEND/BORDER | TYPE: IV Reflective |
| | COLOR: White |

| SYMBOL | X | Y | WID | HT | ANGLE |
|---|---|---|---|---|---|
| ND_6IN_TYPE D | 10.5 | 10.5 | 6 | 9 | 90 |
| RS-128 | 25.5 | 4.5 | 18 | 18 | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

STATION(S):
1591+49 Lt

AREA: 13.5 Sq.Ft.




Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_Conv_Recreation_Cultural.ssl

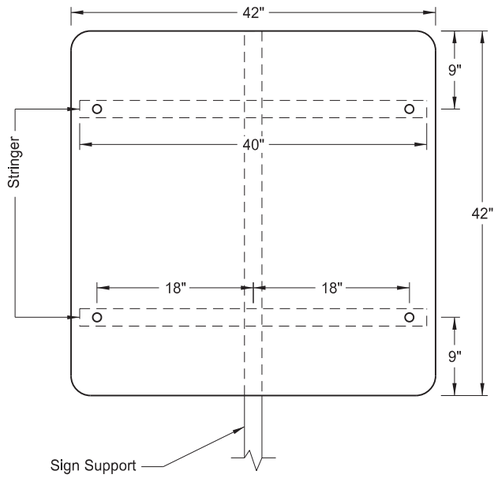



Sign Details

State Line to E JCT ND 5

ND Hwy 52

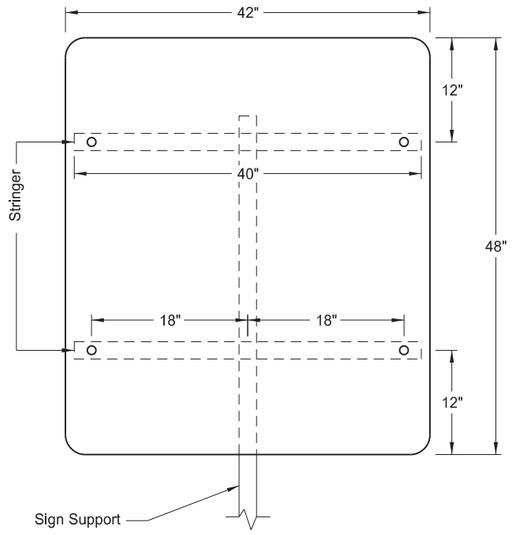
| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 110 | 9 |




Special Assembly A

Sta 440+60 Rt
Sta 1063+80 Lt
Sta 1118+80 Rt
Sta 1434+20 Lt
Sta 1436+95 Rt
Sta 1670+50 Rt
Sta 1766+05 Lt

Pay Area: 12.3 SF




Special Assembly B

Sta 629+60 Rt
Sta 1245+20 Lt
Sta 1307+80 Rt
Sta 1571+83 Lt
Sta 1596+18 Rt

Pay Area: 14.0 SF

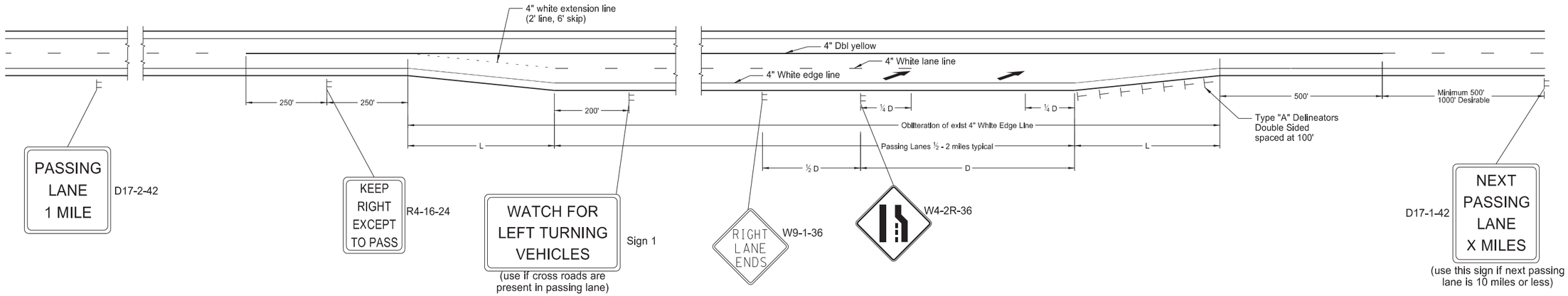
REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 8/29/2023
NORTH DAKOTA

Sign Assemblies

State Line to E JCT ND 5

ND Hwy 52

| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 120 | 1 |




| | Begin Sta | End Sta | Length "L" | Length "D" | 4" white edge line | 4" white extension line | 4" white lane line | Merge Arrow | 4" yellow double lane line | Obliteration of Pavement Marking |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | ft | ft | LF | LF | LF | SF | LF | SF |
| Passing Lane #1 | 226+20 Lt | 347+40 Lt | 780 | 1200 | 12120 | 196 | 3220 | 82 | 26240 | 4040 |
| Passing Lane #2 | 493+40 Rt | 614+60 Rt | 780 | 1200 | 12120 | 196 | 3220 | 82 | 26240 | 4040 |
| Passing Lane #3 | 889+80 Lt | 1011+00 Lt | 780 | 1200 | 12120 | 196 | 3220 | 82 | 26240 | 4040 |
| Passing Lane #4 | 1171+60 Rt | 1292+80 Rt | 780 | 1200 | 12120 | 196 | 3220 | 82 | 26240 | 4040 |
| Passing Lane #5 | 1120+20 Lt | 1381+40 Lt | 780 | 1200 | 12120 | 196 | 3220 | 82 | 26240 | 4040 |
| Passing Lane #6 | 1490+00 Lt | 1581+17 Rt | 780 | 1200 | 9118 | 196 | 2280 | 82 | 20236 | 3040 |
| Passing Lane #7 | 1586+84 Lt | 1678+94 Lt | 780 | 1200 | 9210 | 196 | 2510 | 82 | 20420 | 3070 |
| Passing Lane #8 | 1764+94 Rt | 1839+54 Rt | 780 | 1200 | 7415 | 196 | 1950 | 82 | 16830 | 2487 |
| | | | | Total | 86343 | 1568 | 22840 | 656 | 188686 | 28797 |

| Spec | Code | Bid Item | Qty | Unit |
|---|---|---|---|---|
| 704 | 1500 | OBLITERATION OF PAVEMENT MARKING | | |
| | | 4" white edge line | 28,797 | SF |
| 754 | 0155 | DELINEATORS - TYPE A - DOUBLE SIDED | | |
| | | Sta 234+00 Lt | 8 | EA |
| | | Sta 606+80 Rt | 8 | EA |
| | | Sta 897+60 Lt | 8 | EA |
| | | Sta 1268+00 Lt | 8 | EA |
| | | Sta 1285+00 Rt | 8 | EA |
| | | Sta 1573+37 Rt | 8 | EA |
| | | Sta 1594+64 Lt | 8 | EA |
| | | Sta 1831+74 Rt | 8 | EA |
| | | Total | 64 | EA |
| 762 | 0103 | PVMT MK PAINTED - MESSAGE | | |
| | | Merge Arrow (x16) | 656 | SF |
| 762 | 1104 | PVMT MK PAINTED 4IN LINE | | |
| | | 4" white edge line | 86,343 | LF |
| | | 4" white extension line | 1,568 | LF |
| | | 4" white lane line | 22,840 | LF |
| | | 4" yellow double lane line | 188,686 | LF |
| | | Total | 299,437 | LF |

REGISTERED PROFESSIONAL ENGINEER
DARELL ARNE
PE-6523
DATE 9/5/2023
NORTH DAKOTA

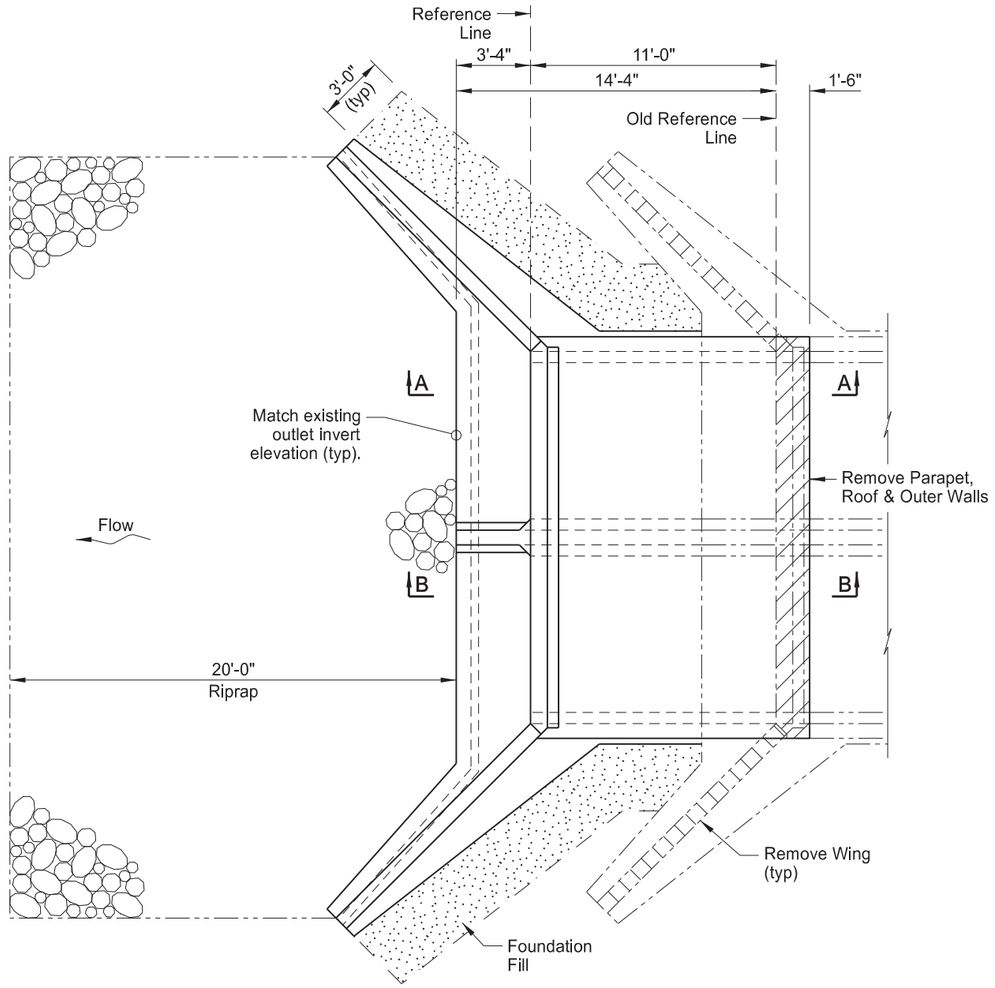
Passing/Climbing Lane Layout
Pavement Marking Quantities

State Line to E JCT ND 5

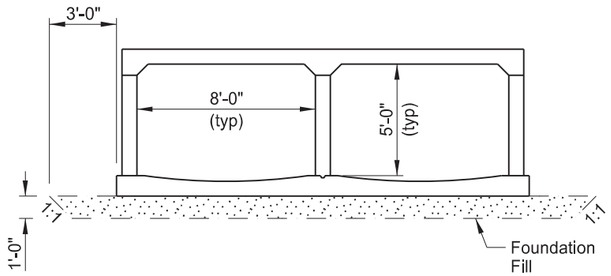
ND Hwy 52

23 U.S.C. 409
NDDOT Reserves All Objections

| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 1 |




PLAN




(SHOWING FILL UNDER BOX)
SECTION

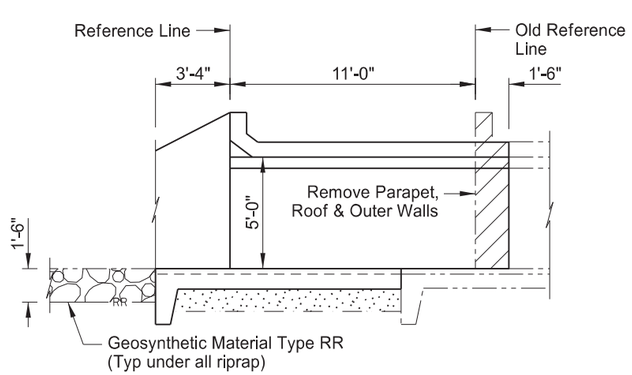
## NOTE:

Provide a 1'-0" minimum depth of foundation fill under the floor. Remove and replace all unsound material under the box extension with foundation fill. The Engineer will determine the depth required.

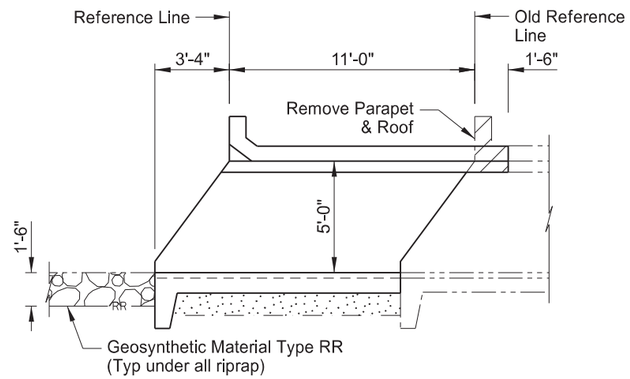
## DESIGN STRENGTHS:

f'c = 3,000 psi ~ Class AE-3 Concrete
fy = 60,000 psi ~ Reinforcing Steel

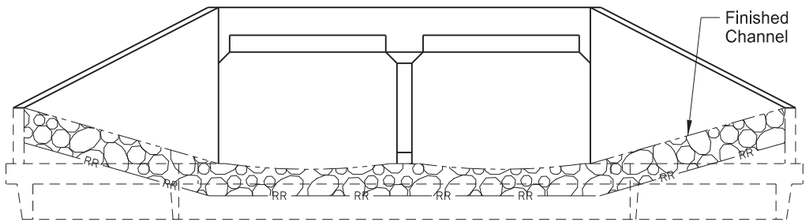
Load & Resistance Factor Design




A-A




B-B




(SHOWING FINISHED SECTION)
END VIEW

REGISTERED PROFESSIONAL ENGINEER
KYLE EVERT
PE-7868
DATE
NORTH DAKOTA
01 10 2022

## BRIDGE BID ITEMS

| SPEC | CODE | ITEM DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| 202 | 0101 | REMOVAL OF CONCRETE | EA | 1 |
| 210 | 0050 | BOX CULVERT EXCAVATION | EA | 1 |
| 210 | 0210 | FOUNDATION FILL | CY | 14 |
| 210 | 0405 | FOUNDATION PREPARATION-BOX CULVERT | EA | 1 |
| 256 | 0200 | RIPRAP GRADE II | CY | 40 |
| 602 | 1131 | CLASS AE-3 CONCRETE-BOX CULVERT | CY | 23.5 |
| 612 | 0114 | REINFORCING STEEL-GRADE 60-BOX CULVERT | LBS | 3,745 |
| 709 | 0155 | GEOSYNTHETIC MATERIAL TYPE RR | SY | 71 |

11 MILES EAST OF ND 5

CLEAR SPAN 2 x 8' CLEAR HEIGHT 5'
MAXIMUM FILL 5'

**STATION: 956+51.3**
**DBL BOX CULVERT EXTENSION LAYOUT**

ND DEPARTMENT OF TRANSPORTATION
BRIDGE DIVISION

Ketterling, Jonathan
01/10/22
DocuSign

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 2 |

# NOTES

100 SCOPE OF WORK: Work at this site consists of extending a double 8' x 5' reinforced concrete box culvert 11'-0" on one end.

202 REMOVAL OF CONCRETE: Remove portions of existing culvert end where extension is to be attached. Remove 1'-6" of existing concrete to expose the existing reinforcing steel at the parapet, roof, and outside walls at the vertical junction with the wing. Remove existing wing walls in entirety. Cut rebar protruding from the floor under the wing walls flush with the top surface of the floor. Leave existing floor and cutoff walls in place.

602 CONCRETE: Cast the following elements of each section in one continuous run:

1. Floor slab and wing footings
2. Each intermediate wall up to the bottom of fillets
3. Each sidewall up to the bottom of fillets with its adjacent wings complete to the top
4. Roof slab and parapets

Allow the concrete in the walls to set at least two hours before the roof slab is poured.

If the existing wall and roof thicknesses are different than the new thicknesses, align the inner surfaces and taper the exterior surfaces in the first 1'-6" of the barrel.

602 CURING CONCRETE: Wet cure all concrete surfaces not covered by forms. Cover the concrete with a double thickness of burlap. Maintain surface moisture between the final finish and placement of burlap by periodic applications of a light fog spray of water. Keep the burlap continuously moist until the end of the curing period.

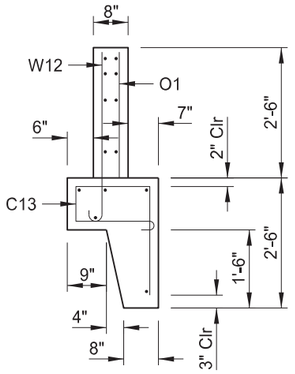
612 REINFORCING STEEL: Place bolsters and bar supports for the roof steel at a maximum of 4 foot spacing.

Dimensions of bent bars are given out to out.

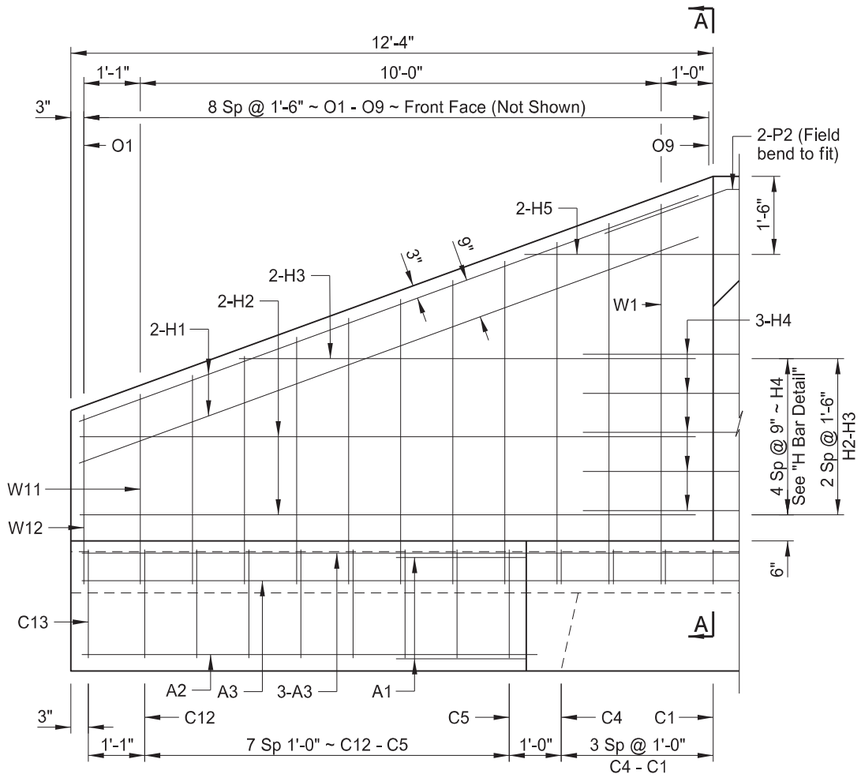
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KYLE EVERT
PE-7868
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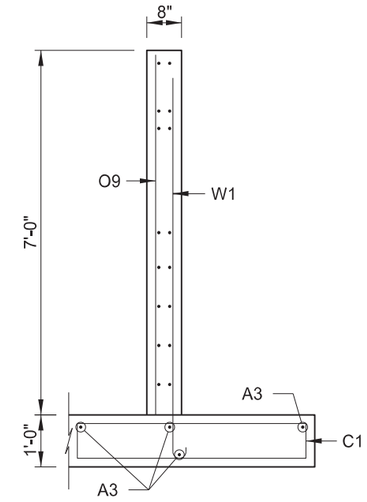
| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 3 |



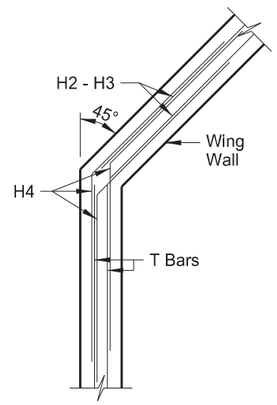

END VIEW



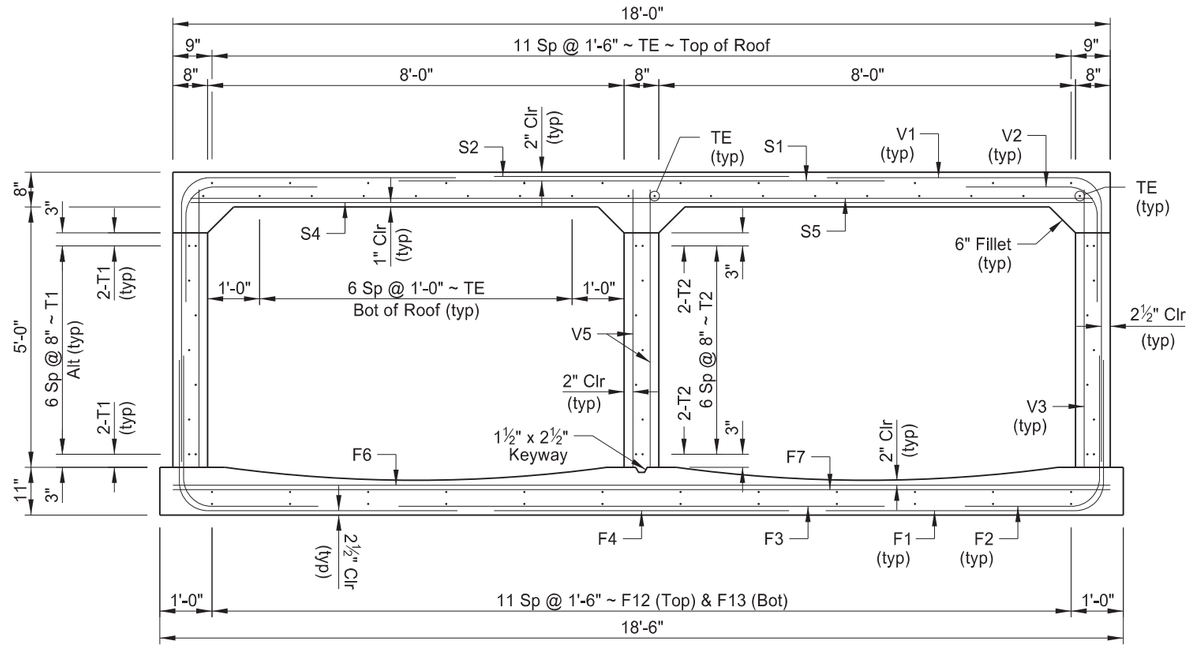

WING ELEVATION



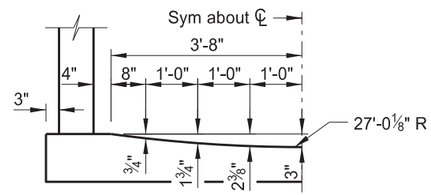

A-A




H BAR DETAIL




SECTION OF BARREL




CURVED FLOOR OFFSETS

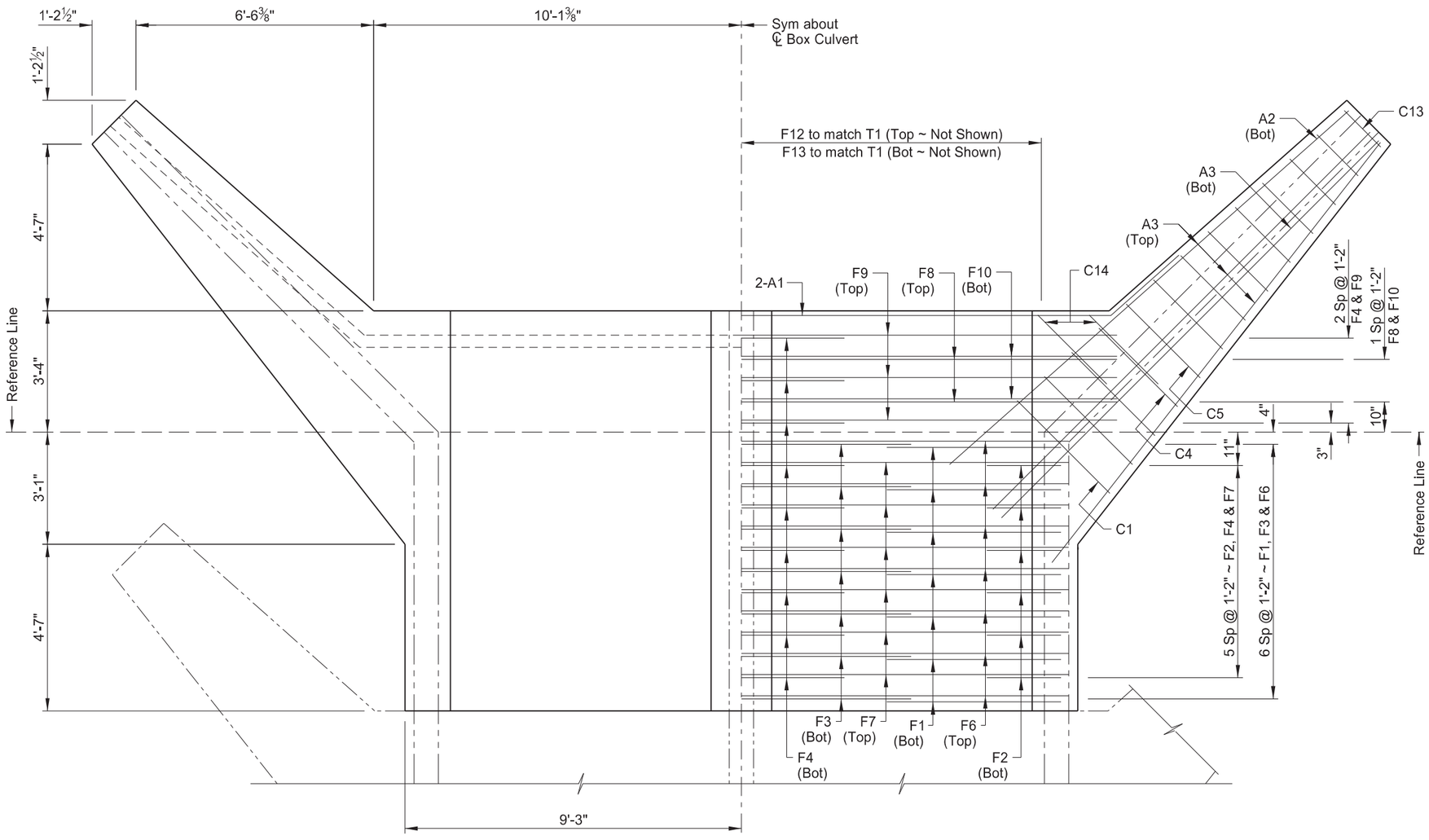
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CREEK
11 MILES EAST OF ND 5

BARREL SECTION &
WING DETAILS

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| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 4 |




(SHOWING DIMENSIONS)

(SHOWING REINFORCING)

FLOOR PLAN

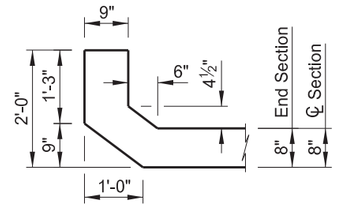
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CREEK
11 MILES EAST OF ND 5

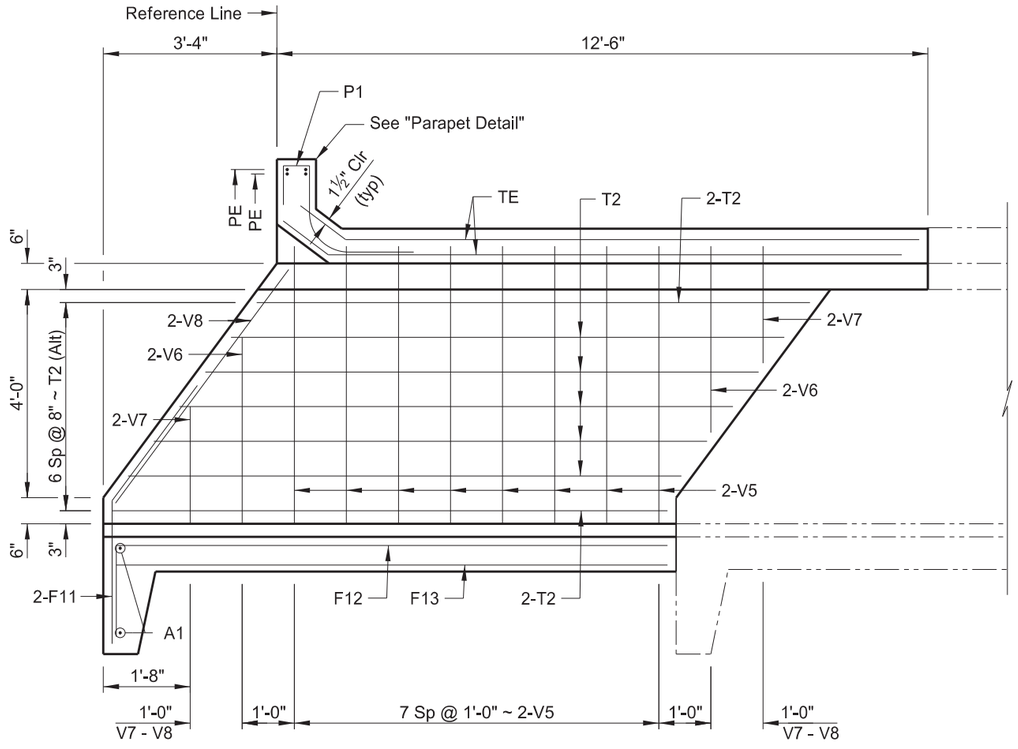
FLOOR DETAIL

23 U.S.C. 409
NDDOT Reserves All Objections

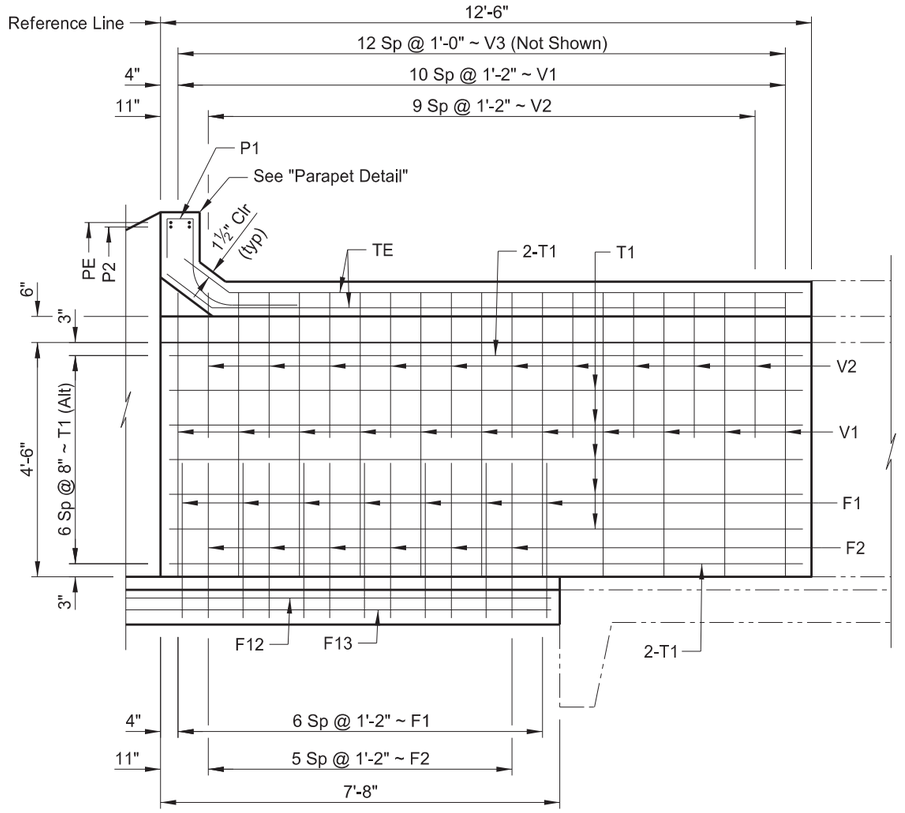
| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 5 |




PARAPET DETAIL




INNER WALL




OUTER WALL

LONGITUDINAL SECTIONS

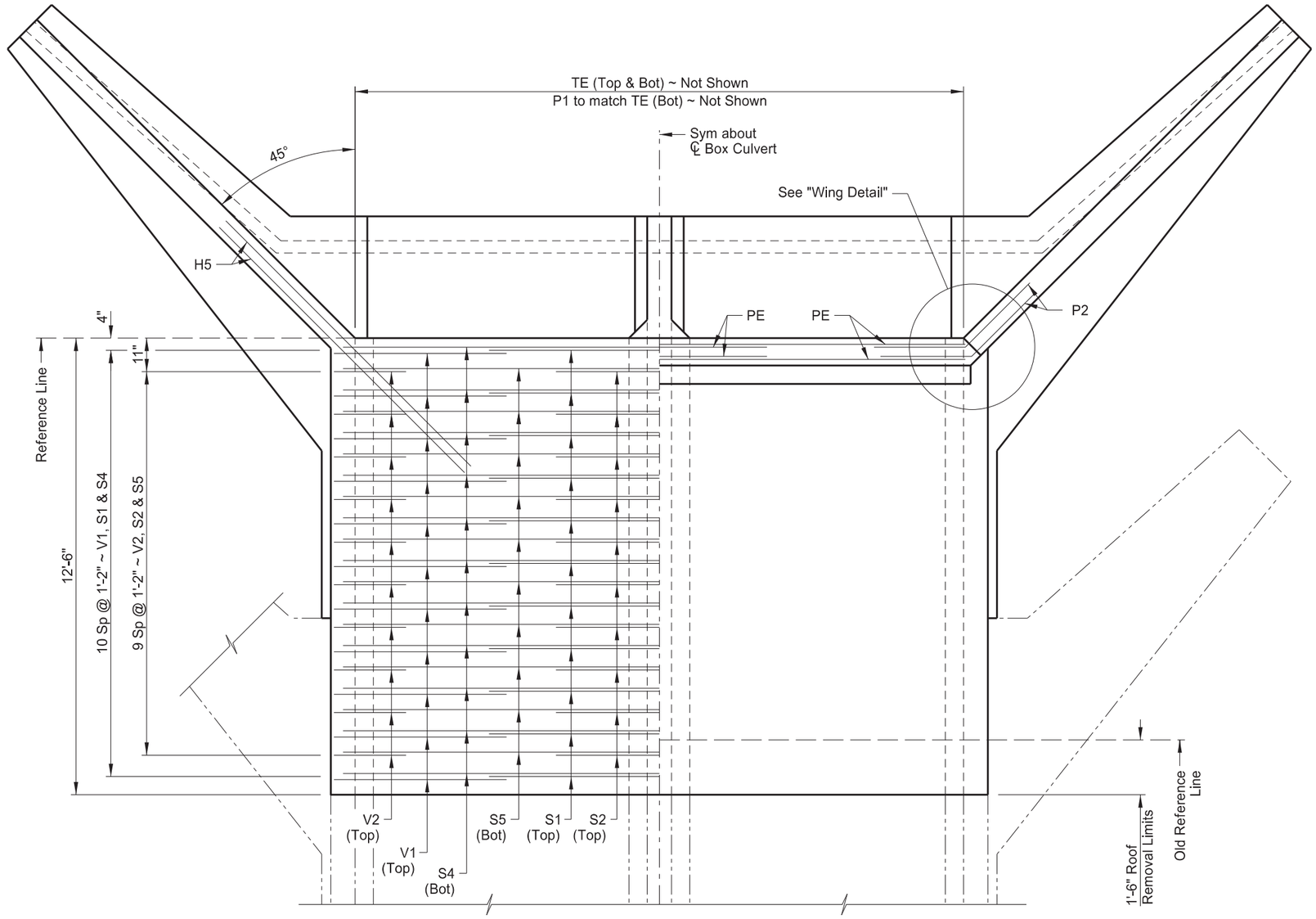
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CREEK
11 MILES EAST OF ND 5

WALL DETAILS &
PARAPET DETAILS

23 U.S.C. 409
NDDOT Reserves All Objections

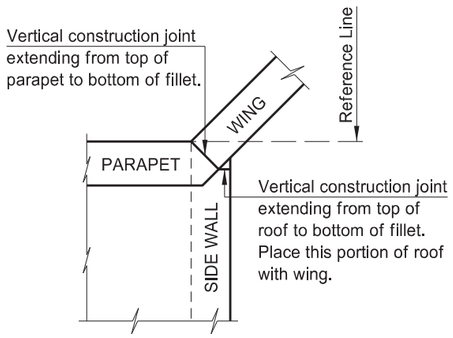
| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 6 |




(SHOWING ROOF REINFORCING)

(SHOWING PARAPET REINFORCING)

ROOF PLAN




WING DETAIL

REGISTERED PROFESSIONAL ENGINEER
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NORTH DAKOTA
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CREEK
11 MILES EAST OF ND 5

ROOF DETAIL &
WING DETAIL

| BAR LIST (CONSTANT) | | | | |
|---|---|---|---|---|
| MARK | SIZE | NO. | LENGTH | SHAPE |
| W1 | 4 | 2 | 7'-8" | BENT |
| W2 | 4 | 2 | 7'-3" | BENT |
| W3 | 4 | 2 | 6'-11" | BENT |
| W4 | 4 | 2 | 6'-6" | BENT |
| W5 | 4 | 2 | 6'-2" | BENT |
| W6 | 4 | 2 | 5'-10" | BENT |
| W7 | 4 | 2 | 5'-5" | BENT |
| W8 | 4 | 2 | 5'-1" | BENT |
| W9 | 4 | 2 | 4'-9" | BENT |
| W10 | 4 | 2 | 4'-4" | BENT |
| W11 | 4 | 2 | 4'-0" | BENT |
| W12 | 4 | 2 | 3'-7" | BENT |
| | | | | |
| C1 | 4 | 2 | 8'-10' | BENT |
| C2 | 4 | 2 | 8'-6" | BENT |
| C3 | 4 | 2 | 8'-0" | BENT |
| C4 | 4 | 2 | 7'-8" | BENT |
| C5 | 4 | 2 | 8'-11" | BENT |
| C6 | 4 | 2 | 8'-7" | BENT |
| C7 | 4 | 2 | 8'-1" | BENT |
| C8 | 4 | 2 | 7'-9" | BENT |
| C9 | 4 | 2 | 7'-5" | BENT |
| C10 | 4 | 2 | 7'-1" | BENT |
| C11 | 4 | 2 | 6'-9" | BENT |
| C12 | 4 | 2 | 6'-3" | BENT |
| C13 | 4 | 2 | 5'-11" | BENT |
| C14 | 4 | 4 | 4'-9" | BENT |
| | | | | |
| H1 | 6 | 8 | 12'-8" | STR. |
| H2 | 4 | 8 | 11'-10" | STR. |
| H3 | 4 | 4 | 9'-1" | STR. |
| H4 | 4 | 30 | 6'-0" | BENT |
| H5 | 6 | 4 | 9'-6" | STR. |
| | | | | |
| O1-O9 | 4 | 2 SETS | 41'-8" | STR. |
| | | | | |
| A1 | 6 | 4 | 13'-7" | BENT |
| A2 | 6 | 2 | 8'-9" | STR. |
| A3 | 6 | 8 | 14'-8" | STR. |
| | | | | |
| P1 | 4 | 18 | 4'-7" | BENT |
| P2 | 6 | 4 | 5'-0" | BENT |
| PE | 6 | 4 | 11'-4" | STR. |
| | | | | |
| V6 | 4 | 4 | 3'-11" | STR. |
| V7 | 4 | 4 | 2'-7" | STR. |
| V8 | 6 | 2 | 5'-7" | STR. |
| | | | | |
| F8 | 5 | 2 | 20'-8" | STR. |
| F9 | 4 | 3 | 20'-8" | STR. |
| F10 | 5 | 2 | 20'-8" | STR. |
| F11 | 6 | 2 | 5'-6" | BENT |
| F12 | 4 | 12 | 12'-5" | BENT |
| F13 | 4 | 12 | 10'-7" | STR. |
| | | | | |

| BAR LIST (VARIABLE) | | | | |
|---|---|---|---|---|
| MARK | SIZE | NO. | LENGTH | SHAPE |
| V1 | 4 | 22 | 10'-6" | BENT |
| V2 | 4 | 20 | 4'-6" | BENT |
| V3 | 4 | 26 | 5'-4" | STR. |
| V5 | 4 | 16 | 5'-4" | STR. |
| | | | | |
| F1 | 4 | 14 | 8'-0" | BENT |
| F2 | 4 | 12 | 5'-3" | BENT |
| F3 | 5 | 7 | 9'-4" | STR. |
| F4 | 6 | 9 | 5'-8" | STR. |
| F6 | 5 | 7 | 18'-0" | STR. |
| F7 | 4 | 6 | 18'-0" | STR. |
| | | | | |
| S1 | 6 | 11 | 9'-4" | STR. |
| S2 | 6 | 10 | 5'-8" | STR. |
| S4 | 4 | 11 | 17'-4" | STR. |
| S5 | 4 | 10 | 17'-4" | STR. |
| | | | | |
| T1 | 4 | 18 | 12'-2" | STR. |
| T2 | 4 | 9 | 10'-7" | STR. |
| TE | 4 | 30 | 12'-1" | BENT |
| | | | | |

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| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 7 |

| CONCRETE QUANTITIES | |
|---|---|
| ENTIRE FLOOR | 9.94 CY |
| TWO OUTSIDE WALLS & 2 WINGS | 5.61 CY |
| INSIDE WALL | 1.22 CY |
| ENTIRE ROOF | 6.72 CY |
| TOTAL | 23.5 CY |

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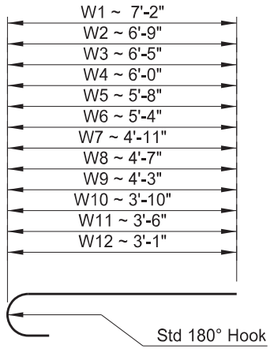
| QUANTITIES | |
|---|---|
| CLASS AE-3 CONCRETE | 23.5 CY |
| REINFORCING STEEL | 3,745 LBS |

CREEK
11 MILES EAST OF ND 5

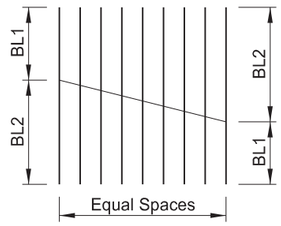
REINFORCING BAR LIST

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| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 8 |



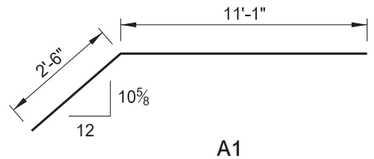

W1 - W12



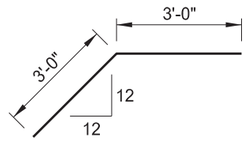

2 SETS SHOWN

| MARK | LENGTH 1 SET | BL1 | BL2 | SPACES |
|---|---|---|---|---|
| O1-O9 | 41'-8" | 2'-5" | 6'-10" | 8 |
| | | | | |
| | | | | |

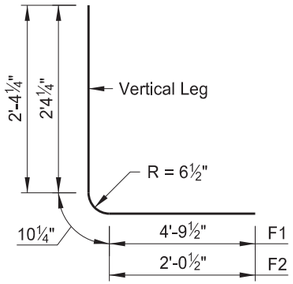
BAR CUTTING DETAILS



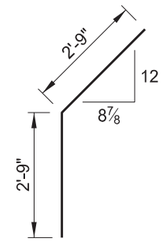

A1



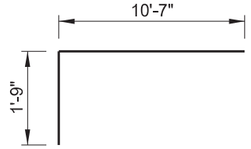

H4



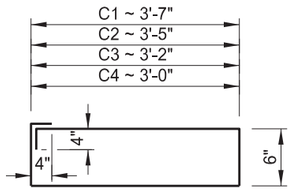

F1 & F2



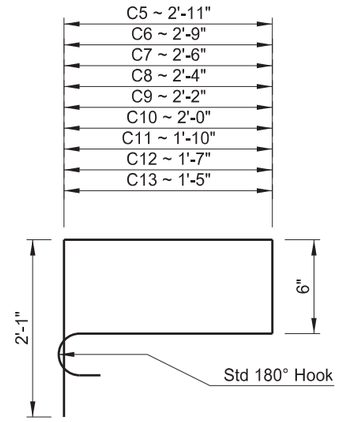

F11



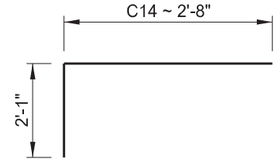

F12



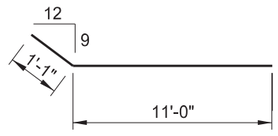

C1 - C4



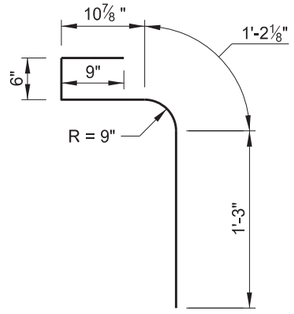

C5 - C13



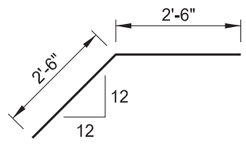

C14



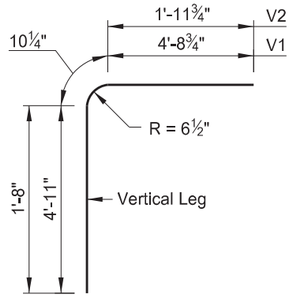

TE




P1




P2




V1 & V2

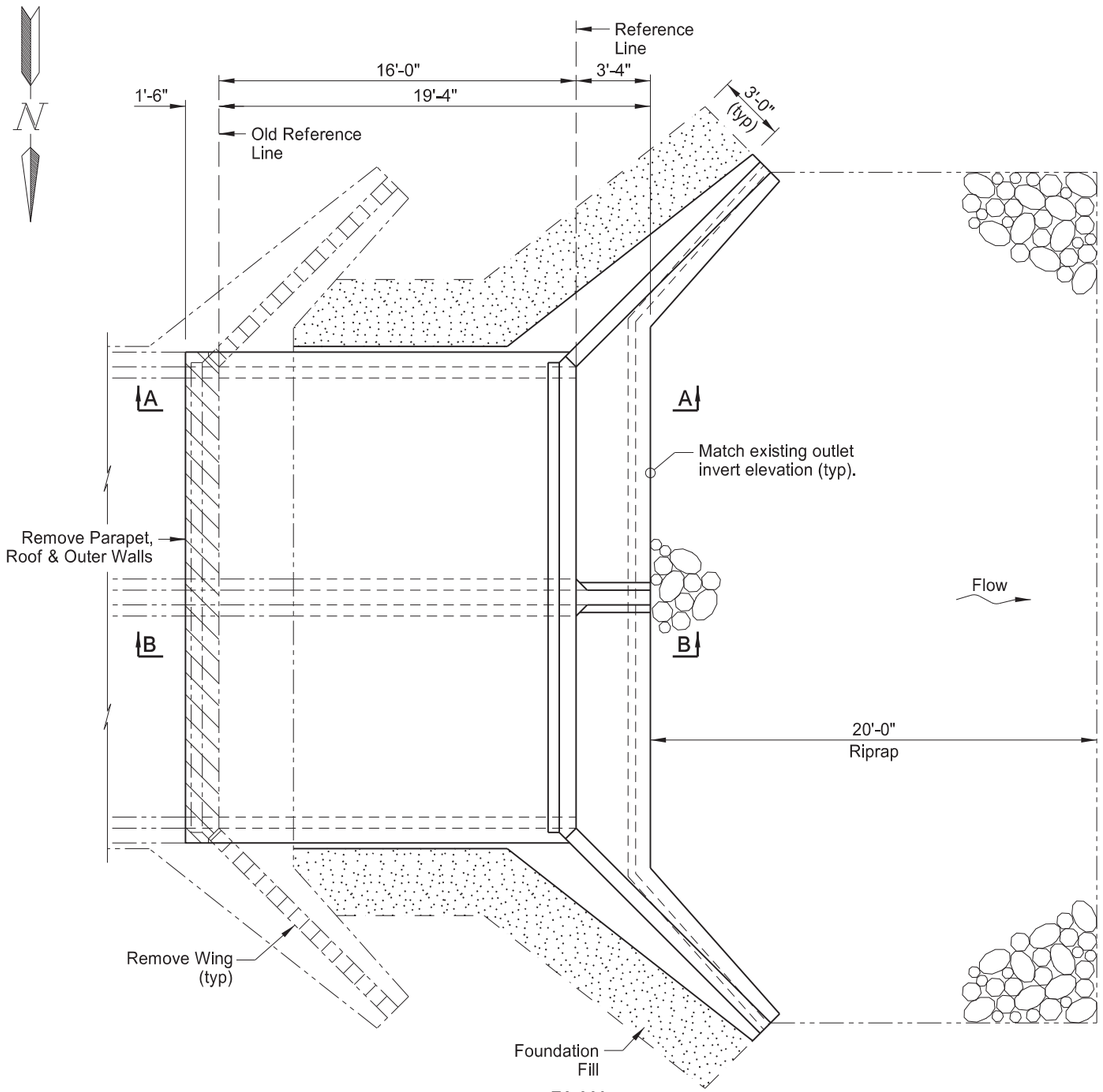
REGISTERED PROFESSIONAL ENGINEER
KYLE EVERT
PE-7868
DATE
NORTH DAKOTA
01 10 2022

CREEK
11 MILES EAST OF ND 5

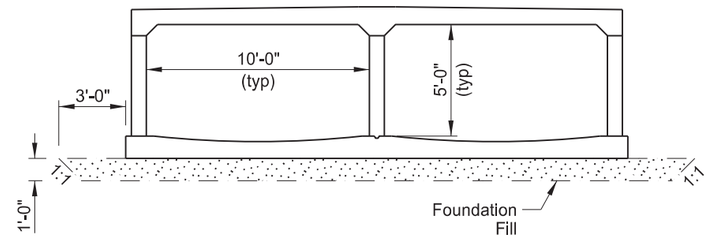
BAR DETAILS

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| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 9 |

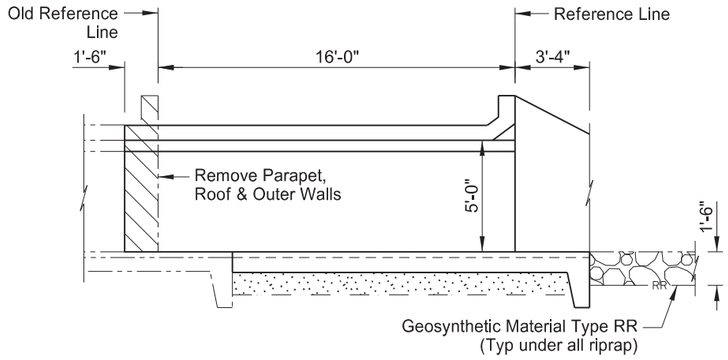



PLAN

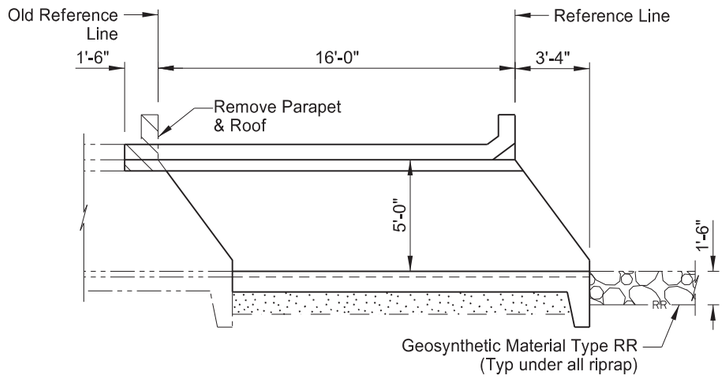



(SHOWING FILL UNDER BOX)

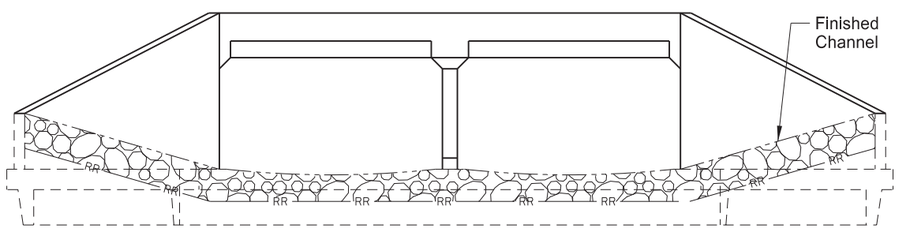
SECTION




A-A




B-B




(SHOWING FINISHED SECTION)

END VIEW

## NOTE:

Provide a 1'-0" minimum depth of foundation fill under the floor. Remove and replace all unsound material under the box extension with foundation fill. The Engineer will determine the depth required.

## DESIGN STRENGTHS:

f'c = 3,000 psi ~ Class AE-3 Concrete
fy = 60,000 psi ~ Reinforcing Steel

Load & Resistance Factor Design

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01 10 2022

## BRIDGE BID ITEMS

| SPEC | CODE | ITEM DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| 202 | 0101 | REMOVAL OF CONCRETE | EA | 1 |
| 210 | 0050 | BOX CULVERT EXCAVATION | EA | 1 |
| 210 | 0210 | FOUNDATION FILL | CY | 21 |
| 210 | 0405 | FOUNDATION PREPARATION-BOX CULVERT | EA | 1 |
| 256 | 0200 | RIPRAP GRADE II | CY | 40 |
| 602 | 1131 | CLASS AE-3 CONCRETE-BOX CULVERT | CY | 36.3 |
| 612 | 0114 | REINFORCING STEEL-GRADE 60-BOX CULVERT | LBS | 5,194 |
| 709 | 0155 | GEOSYNTHETIC MATERIAL TYPE RR | SY | 80 |

4 MILES NORTH OF ND 8

CLEAR SPAN 2 x 10' CLEAR HEIGHT 5'
MAXIMUM FILL 5'

STATION: 1232+31.80
DBL BOX CULVERT EXTENSION LAYOUT

ND DEPARTMENT OF TRANSPORTATION
BRIDGE DIVISION

Ketterling, Jonathan
01/10/22

DocuSign

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 10 |

# NOTES

100 SCOPE OF WORK: Work at this site consists of extending a double 10' x 5' reinforced concrete box culvert 16'-0" on one end.

202 REMOVAL OF CONCRETE: Remove portions of existing culvert end where extension is to be attached. Remove 1'-6" of existing concrete to expose the existing reinforcing steel at the parapet, roof, and outside walls at the vertical junction with the wing. Remove existing wing walls in entirety. Cut rebar protruding from the floor under the wing walls flush with the top surface of the floor. Leave existing floor and cutoff walls in place.

602 CONCRETE: Cast the following elements of each section in one continuous run:

1. Floor slab and wing footings
2. Each intermediate wall up to the bottom of fillets
3. Each sidewall up to the bottom of fillets with its adjacent wings complete to the top
4. Roof slab and parapets

Allow the concrete in the walls to set at least two hours before the roof slab is poured.

If the existing wall and roof thicknesses are different than the new thicknesses, align the inner surfaces and taper the exterior surfaces in the first 1'-6" of the barrel.

602 CURING CONCRETE: Wet cure all concrete surfaces not covered by forms. Cover the concrete with a double thickness of burlap. Maintain surface moisture between the final finish and placement of burlap by periodic applications of a light fog spray of water. Keep the burlap continuously moist until the end of the curing period.

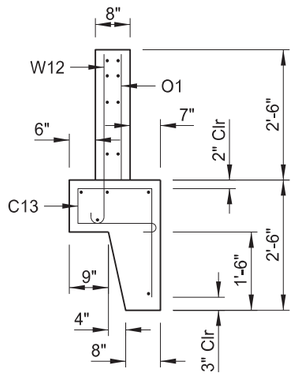
612 REINFORCING STEEL: Place bolsters and bar supports for the roof steel at a maximum of 4 foot spacing.

Dimensions of bent bars are given out to out.

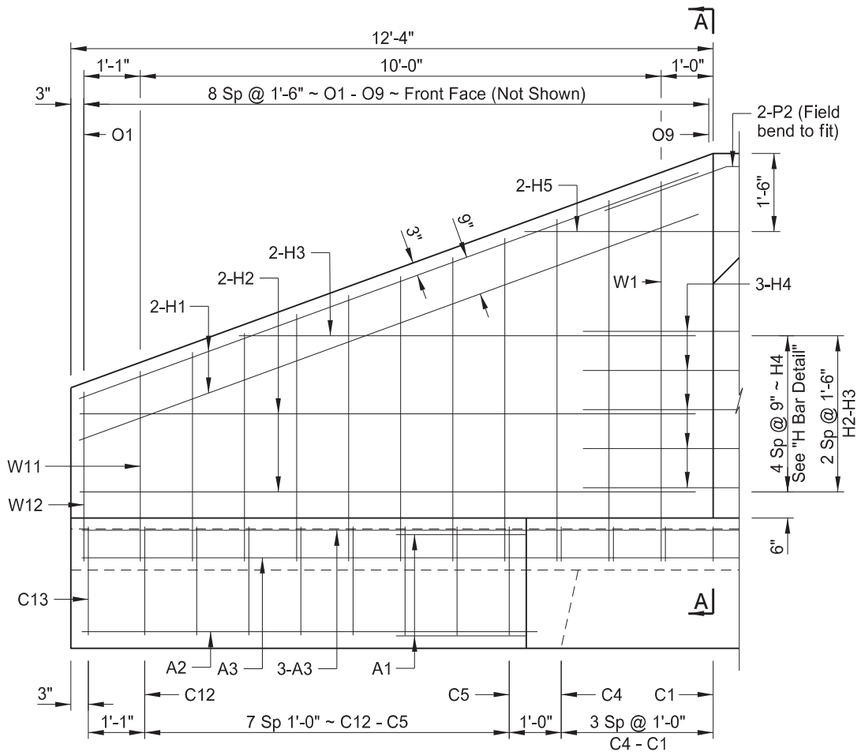
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PE-7868
DATE
NORTH DAKOTA
01 10 2022

23 U.S.C. 409
NDDOT Reserves All Objections

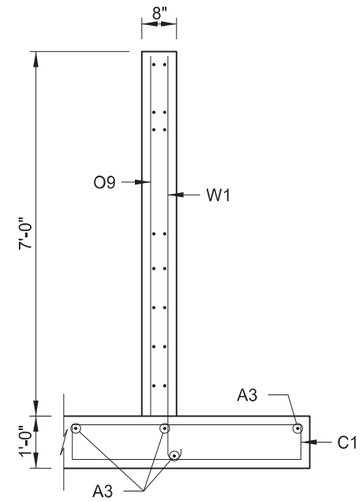
| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 11 |



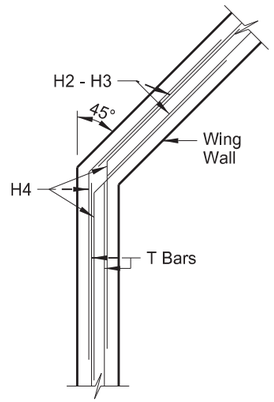

END VIEW



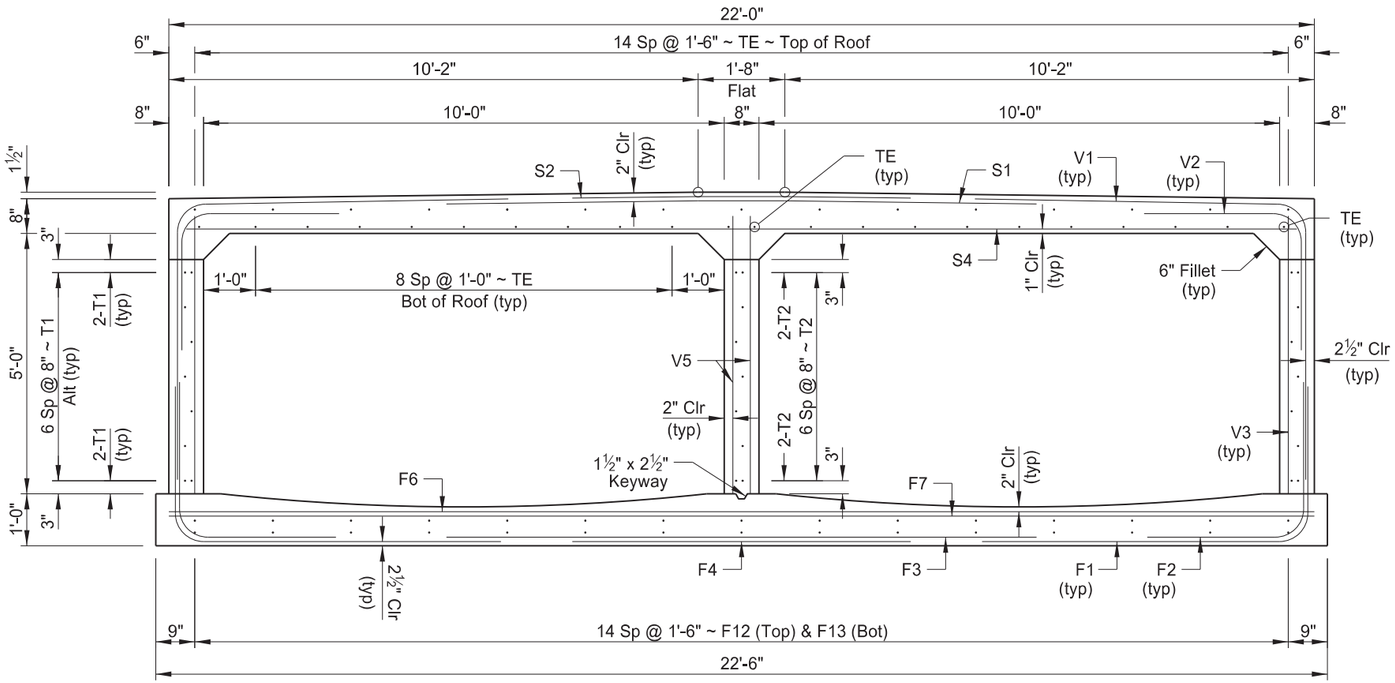

WING ELEVATION



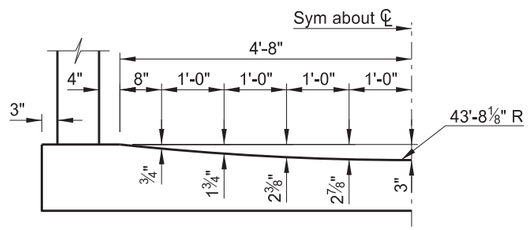

A-A




H BAR DETAIL




SECTION OF BARREL




CURVED FLOOR OFFSETS

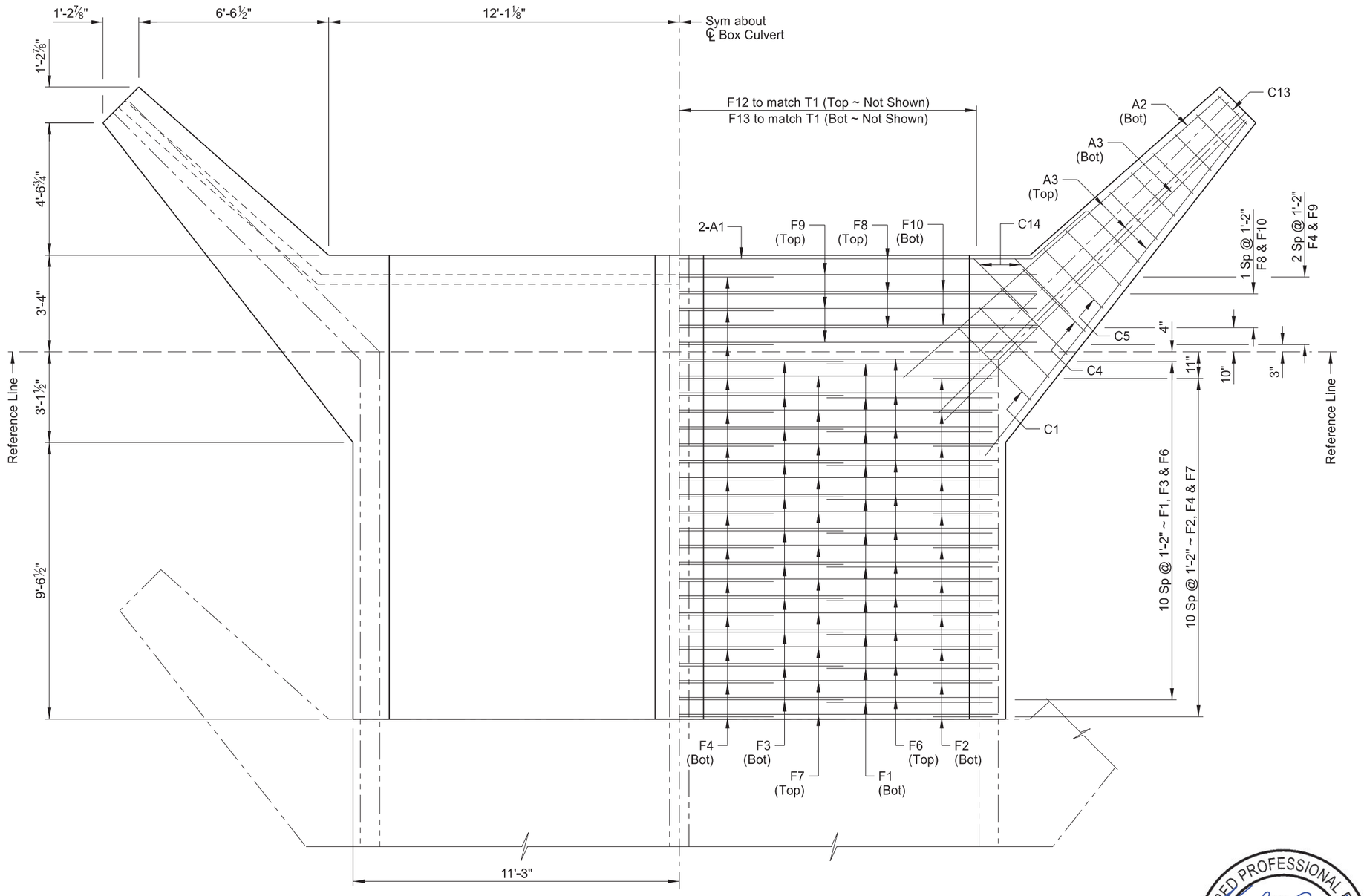
REGISTERED PROFESSIONAL ENGINEER
KYLE EVERT
PE-7868
DATE
NORTH DAKOTA
01 10 2022

CREEK
4 MILES NORTH OF ND 8

BARREL SECTION & WING DETAILS

23 U.S.C. 409
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| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 12 |




(SHOWING DIMENSIONS)

(SHOWING REINFORCING)

FLOOR PLAN

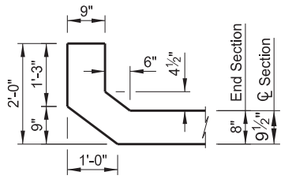
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CREEK
4 MILES NORTH OF ND 8

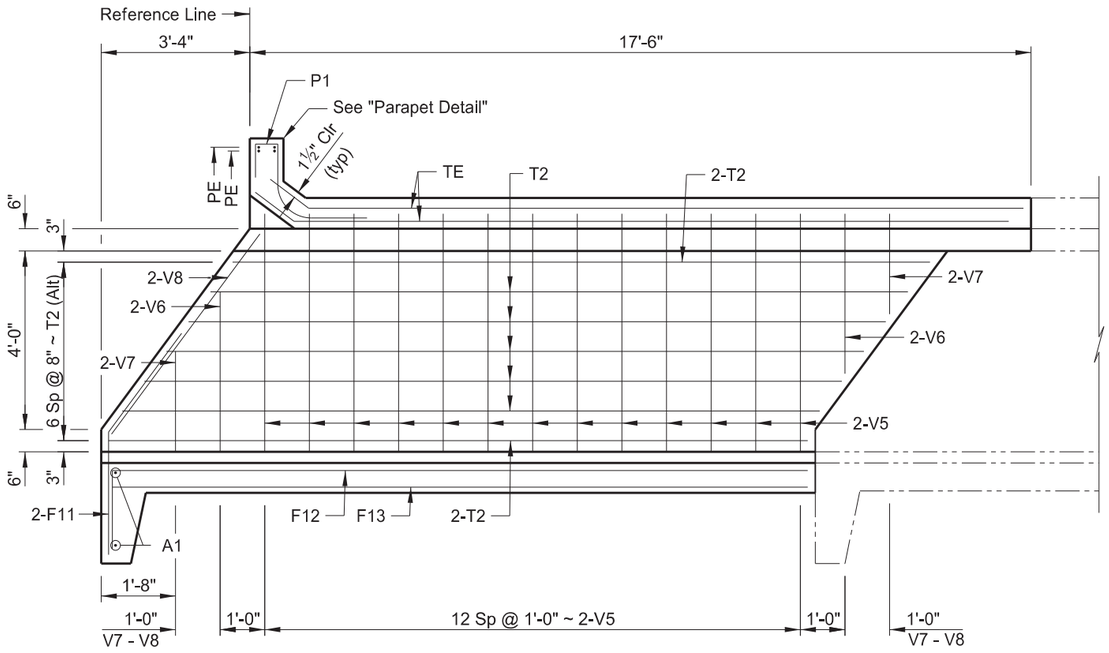
FLOOR DETAIL

23 U.S.C. 409
NDDOT Reserves All Objections

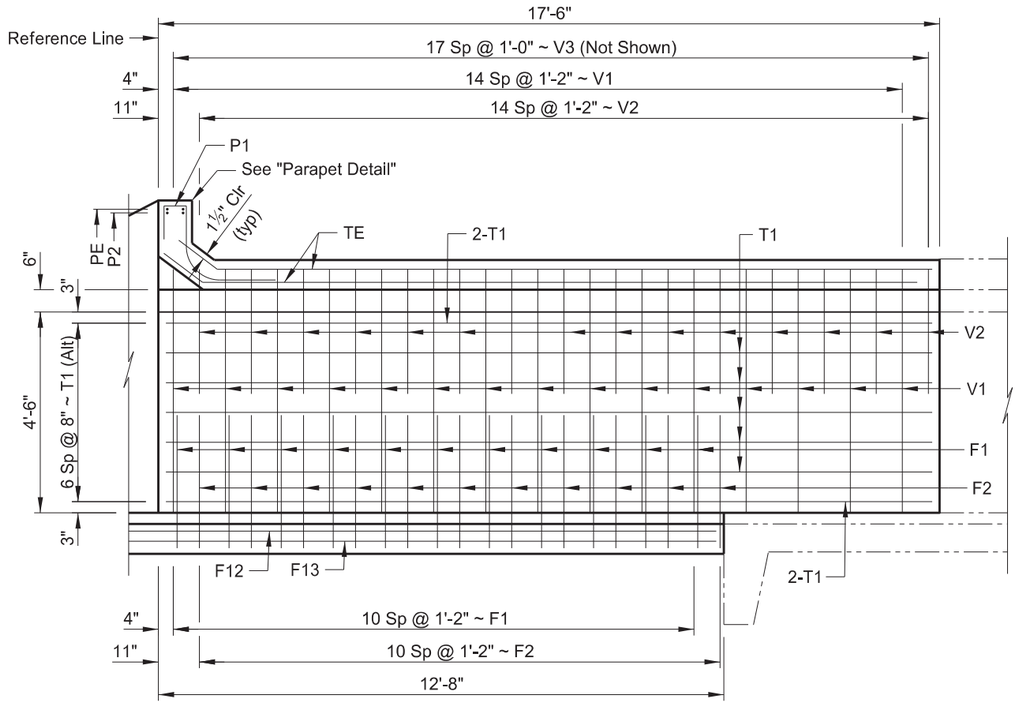
| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 13 |




PARAPET DETAIL




INNER WALL




OUTER WALL

LONGITUDINAL SECTIONS

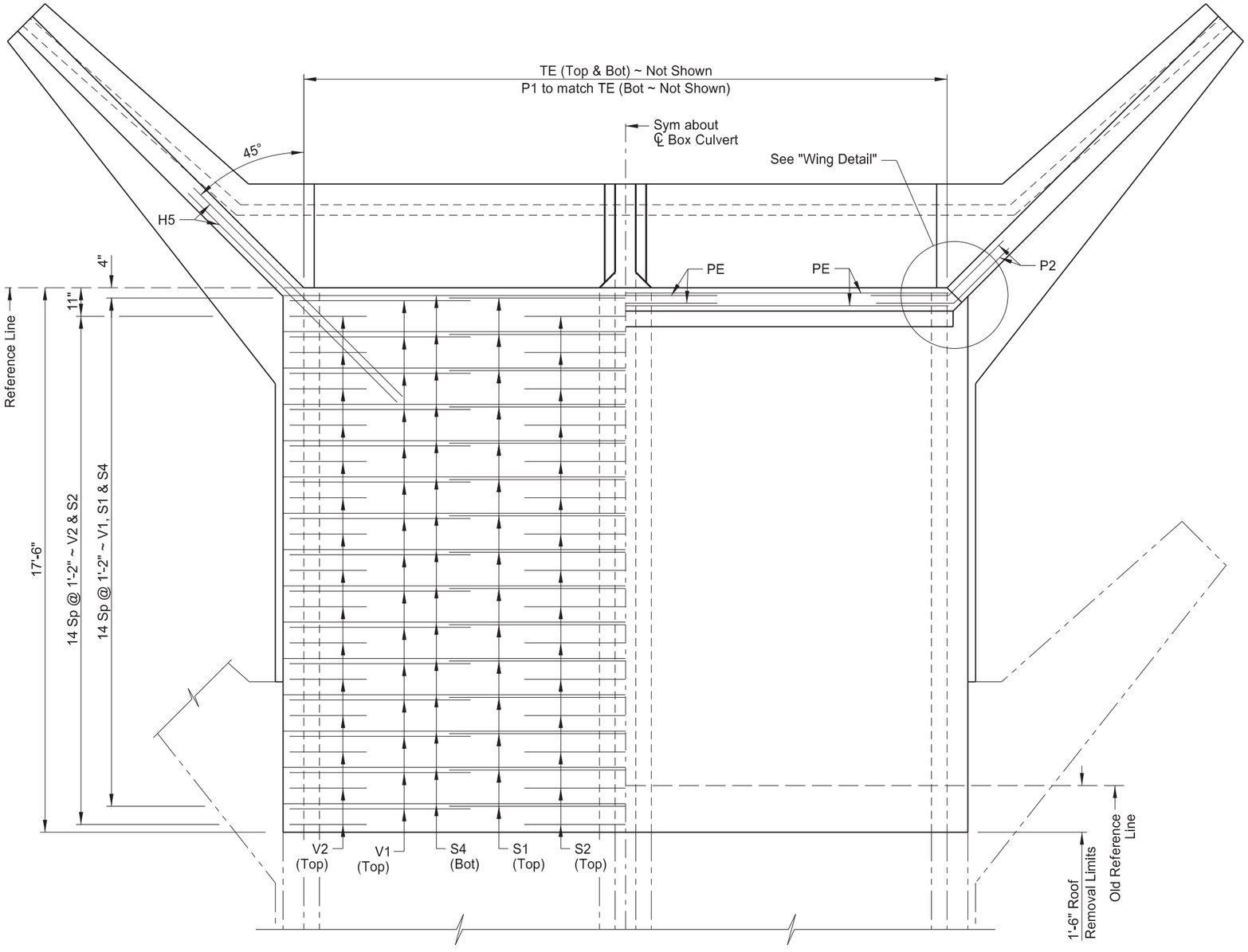
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NORTH DAKOTA
01 10 2022

CREEK
4 MILES NORTH OF ND 8

WALL DETAILS &
PARAPET DETAILS

23 U.S.C. 409
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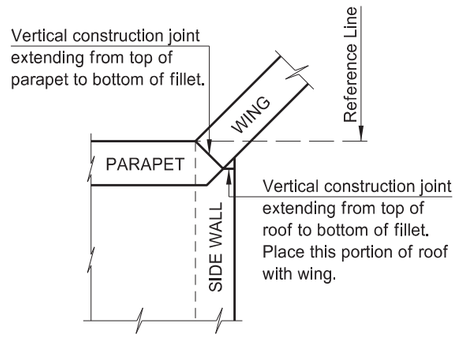
| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 14 |




(SHOWING ROOF DIMENSIONS)

(SHOWING PARAPET REINFORCING)

ROOF PLAN




WING DETAIL

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PE-7868
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NORTH DAKOTA
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CREEK
4 MILES NORTH OF ND 8

ROOF DETAIL

23 U.S.C. 409
NDDOT Reserves All Objections

| STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|
| ND | HEN-7-052(034)000 | 170 | 15 |

## BAR LIST (CONSTANT)

| MARK | SIZE | NO. | LENGTH | SHAPE |
|---|---|---|---|---|
| W1 | 4 | 2 | 7'-9" | BENT |
| W2 | 4 | 2 | 7'-4" | BENT |
| W3 | 4 | 2 | 7'-0" | BENT |
| W4 | 4 | 2 | 6'-7" | BENT |
| W5 | 4 | 2 | 6'-3" | BENT |
| W6 | 4 | 2 | 5'-11" | BENT |
| W7 | 4 | 2 | 5'-6" | BENT |
| W8 | 4 | 2 | 5'-2" | BENT |
| W9 | 4 | 2 | 4'-10" | BENT |
| W10 | 4 | 2 | 4'-5" | BENT |
| W11 | 4 | 2 | 4'-1" | BENT |
| W12 | 4 | 2 | 3'-8" | BENT |
| | | | | |
| C1 | 4 | 2 | 9'-0' | BENT |
| C2 | 4 | 2 | 8'-8" | BENT |
| C3 | 4 | 2 | 8'-2" | BENT |
| C4 | 4 | 2 | 7'-10" | BENT |
| C5 | 4 | 2 | 9'-0" | BENT |
| C6 | 4 | 2 | 8'-8" | BENT |
| C7 | 4 | 2 | 8'-4" | BENT |
| C8 | 4 | 2 | 8'-0" | BENT |
| C9 | 4 | 2 | 7'-6" | BENT |
| C10 | 4 | 2 | 7'-2" | BENT |
| C11 | 4 | 2 | 6'-10" | BENT |
| C12 | 4 | 2 | 6'-6" | BENT |
| C13 | 4 | 2 | 6'-0" | BENT |
| C14 | 4 | 4 | 4'-9" | BENT |
| | | | | |
| H1 | 6 | 8 | 12'-8" | STR. |
| H2 | 4 | 8 | 11'-10" | STR. |
| H3 | 4 | 4 | 9'-1" | STR. |
| H4 | 4 | 30 | 6'-0" | BENT |
| H5 | 6 | 4 | 9'-6" | STR. |
| | | | | |
| O1-O9 | 4 | 2 SETS | 41'-8" | STR. |
| | | | | |
| A1 | 6 | 4 | 15'-7" | BENT |
| A2 | 6 | 2 | 8'-9" | STR. |
| A3 | 6 | 8 | 14'-9" | STR. |
| | | | | |
| P1 | 4 | 22 | 4'-7" | BENT |
| P2 | 6 | 4 | 5'-0" | BENT |
| PE | 6 | 4 | 13'-10" | STR. |
| | | | | |
| V6 | 4 | 4 | 3'-11" | STR. |
| V7 | 4 | 4 | 2'-7" | STR. |
| V8 | 6 | 2 | 5'-7" | STR. |
| | | | | |
| F8 | 6 | 2 | 24'-8" | STR. |
| F9 | 4 | 3 | 24'-8" | STR. |
| F10 | 5 | 2 | 24'-8" | STR. |
| F11 | 6 | 2 | 5'-6" | BENT |
| F12 | 4 | 15 | 16'-4" | BENT |
| F13 | 4 | 15 | 15'-7" | STR. |
| | | | | |

## BAR LIST (VARIABLE)

| MARK | SIZE | NO. | LENGTH | SHAPE |
|---|---|---|---|---|
| V1 | 5 | 30 | 11'-8" | BENT |
| V2 | 5 | 30 | 5'-8" | BENT |
| V3 | 4 | 36 | 5'-4" | STR. |
| V5 | 4 | 26 | 5'-4" | STR. |
| | | | | |
| F1 | 4 | 22 | 9'-0" | BENT |
| F2 | 4 | 22 | 5'-9" | BENT |
| F3 | 5 | 11 | 11'-4" | STR. |
| F4 | 7 | 14 | 6'-6" | STR. |
| F6 | 6 | 11 | 22'-0" | STR. |
| F7 | 4 | 11 | 22'-0" | STR. |
| | | | | |
| S1 | 6 | 15 | 11'-4" | STR. |
| S2 | 7 | 15 | 6'-6" | STR. |
| S4 | 7 | 15 | 21'-4" | STR. |
| | | | | |
| | | | | |
| T1 | 4 | 18 | 17'-2" | STR. |
| T2 | 4 | 9 | 15'-8" | STR. |
| TE | 4 | 37 | 17'-1" | BENT |
| | | | | |

## CONCRETE QUANTITIES

| | |
|---|---|
| ENTIRE FLOOR | 15.84 CY |
| TWO OUTSIDE WALLS & 2 WINGS | 6.72 CY |
| INSIDE WALL | 1.78 CY |
| ENTIRE ROOF | 11.97 CY |
| TOTAL | 36.3 CY |

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## QUANTITIES

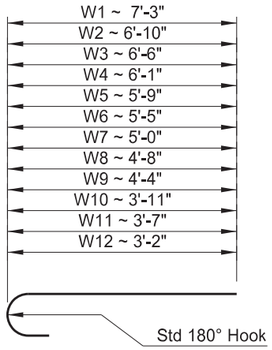
| | |
|---|---|
| CLASS AE-3 CONCRETE | 36.3 CY |
| REINFORCING STEEL | 5,194 LBS |

CREEK
4 MILES NORTH OF ND 8

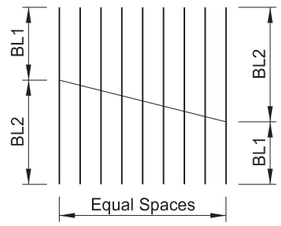
REINFORCING BAR LIST

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| | STATE | PROJECT NUMBER | SECTION NO. | SHEET NO. |
|---|---|---|---|---|
| | ND | HEN-7-052(034)000 | 170 | 16 |



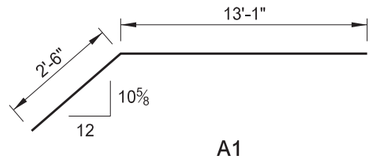

W1 - W12



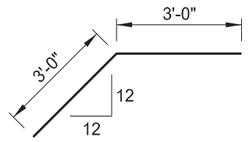

2 SETS SHOWN

| MARK | LENGTH 1 SET | BL1 | BL2 | SPACES |
|---|---|---|---|---|
| O1-O9 | 41'-8" | 2'-5" | 6'-10" | 8 |
| | | | | |
| | | | | |

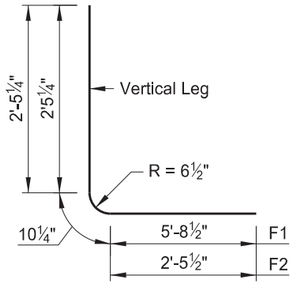
BAR CUTTING DETAILS



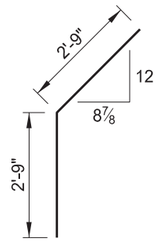

A1



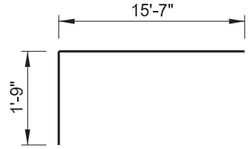

H4



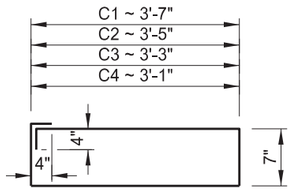

F1 & F2



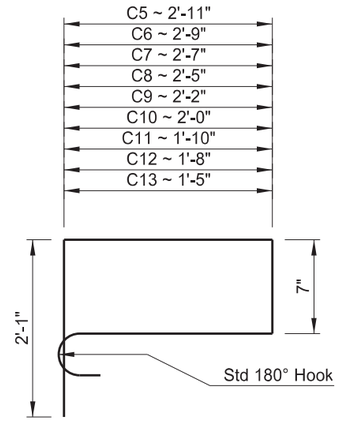

F11



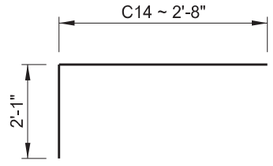

F12



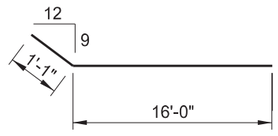

C1 - C4



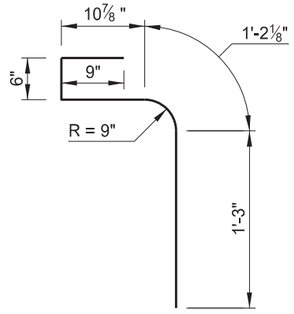

C5 - C13



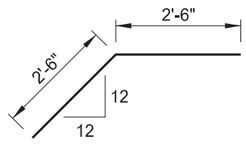

C14



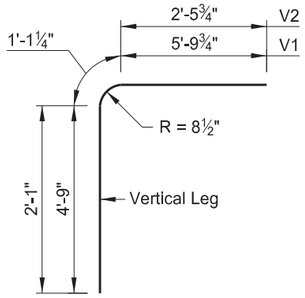

TE




P1




P2




V1 & V2




01 10 2022

CREEK
4 MILES NORH OF ND 8

BAR DETAILS