

|  |       |                   |       |             |           |
|--|-------|-------------------|-------|-------------|-----------|
|  | STATE | PROJECT NO.       | PCN   | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 23493 | 1           | 1         |

NORTH DAKOTA

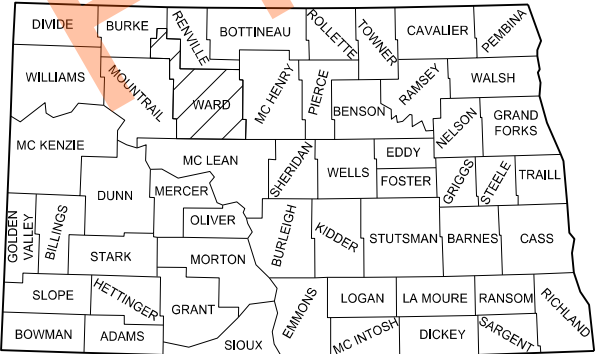
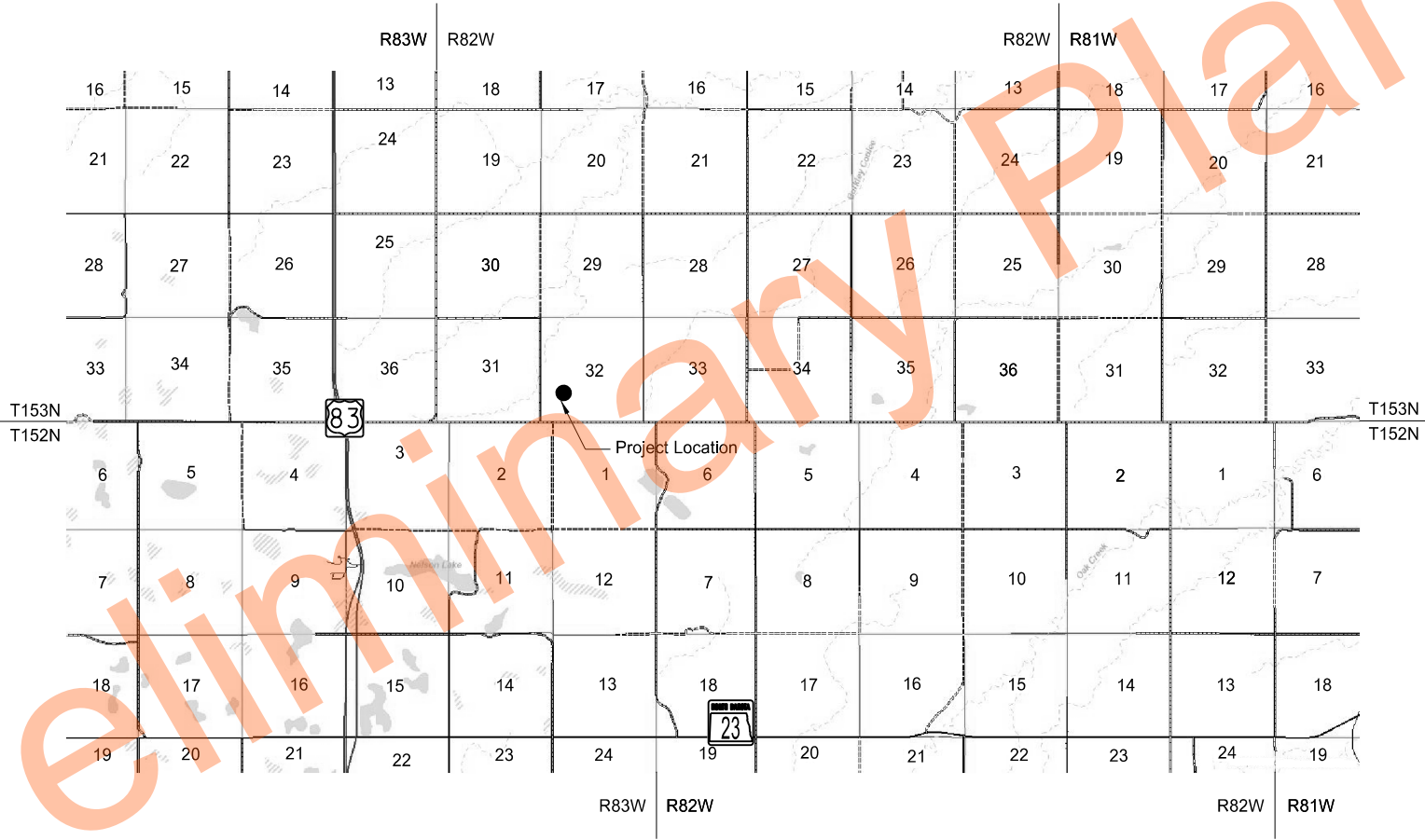
DEPARTMENT OF TRANSPORTATION

| GOVERNING SPECIFICATIONS    | Date Published and Adopted by the North Dakota Department of Transportation |
|-----------------------------|-----------------------------------------------------------------------------|
| Standard Specifications     | 4/1/2023                                                                    |
| Supplemental Specifications | NONE                                                                        |

Ward County  
12 miles South of Minot and 2 miles east of US 83

PROJECT NUMBER \ DESCRIPTION    NET MILES    GROSS MILES

Wetland Mitigation Bank



STATE COUNTY MAP

|             |
|-------------|
| DESIGNER    |
| Carlie Doll |
| DESIGNER    |
| DESIGNER    |

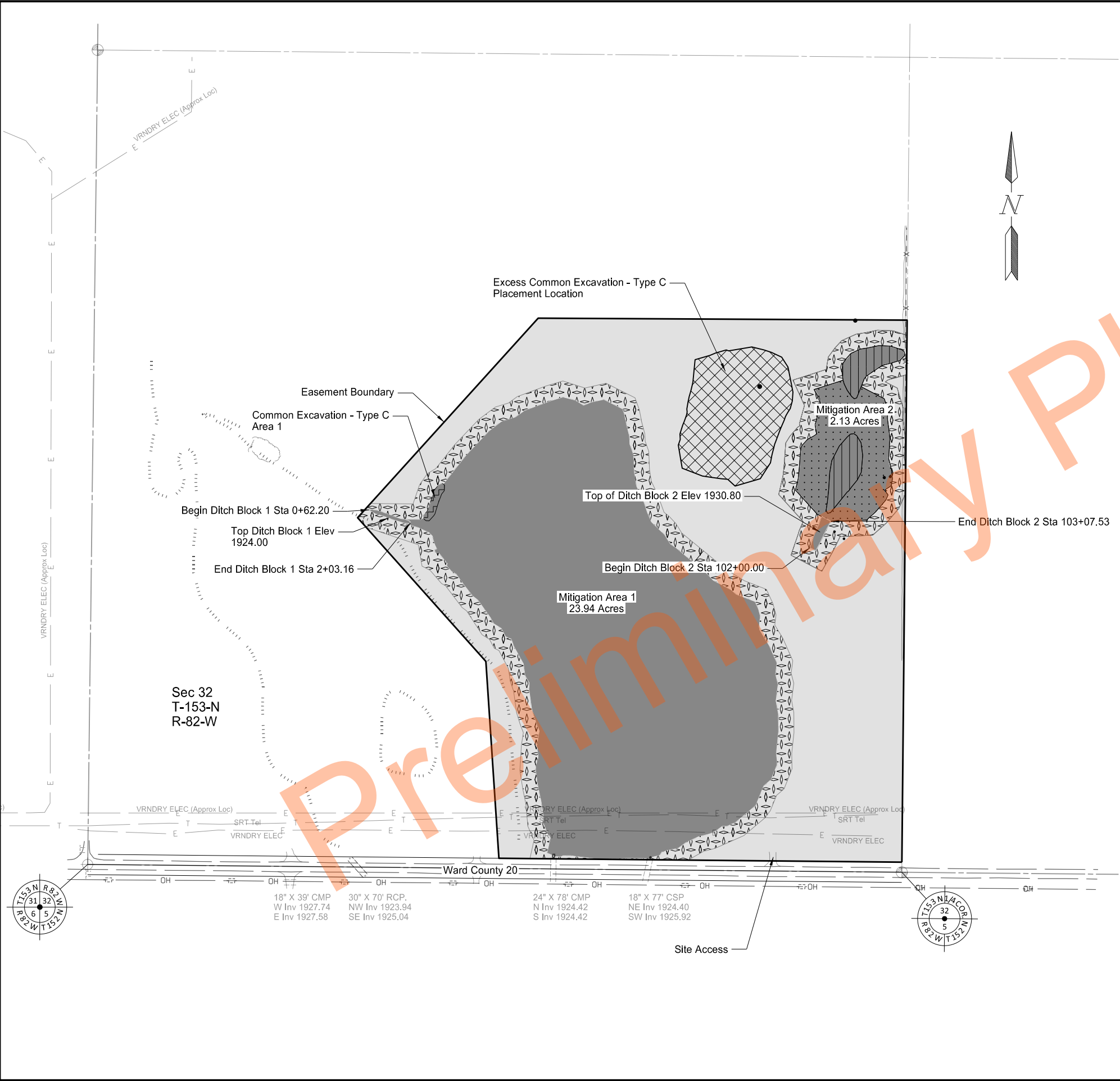
|                                                                  |
|------------------------------------------------------------------|
| ND DEPARTMENT OF TRANSPORTATION<br>OFFICE OF PROJECT DEVELOPMENT |
| Kirk Hoff<br>01/16/25                                            |



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|                    |                                                          |                                  |                           |                                                                      |  | ND    | ARP-SS-4-999(045) | 2           | 1         |
| PLAN SECTIONS      |                                                          |                                  | LIST OF STANDARD DRAWINGS |                                                                      |  |       |                   |             |           |
| Section            | Page(s)                                                  | Description                      | Number                    | Description                                                          |  |       |                   |             |           |
| 1                  | 1                                                        | Title Sheet                      | D-101-1, 2, 3, 4          | NDDOT Abbreviations                                                  |  |       |                   |             |           |
| 2                  | 1                                                        | Table of Contents                | D-101-10                  | NDDOT Utility Company and Organization Abbreviations                 |  |       |                   |             |           |
| 4                  | 1                                                        | Scope of Work                    | D-101-20, 21              | Line Styles                                                          |  |       |                   |             |           |
| 6                  | 1 - 2                                                    | Notes                            | D-101-30, 31, 32, 33      | Symbols                                                              |  |       |                   |             |           |
| 6                  | 3                                                        | Environmental Notes              | D-255-2                   | Erosion And Siltation Control - Erosion Control Blanket Installation |  |       |                   |             |           |
| 8                  | 1                                                        | Quantities                       | D-261-1                   | Erosion Control - Fiber Roll Placement Details                       |  |       |                   |             |           |
| 11                 | 1                                                        | Data Tables                      |                           |                                                                      |  |       |                   |             |           |
| 30                 | 1 - 2                                                    | Typical Sections                 |                           |                                                                      |  |       |                   |             |           |
| 60                 | 1 - 2                                                    | Plan & Profile                   |                           |                                                                      |  |       |                   |             |           |
| 77                 | 1 - 3                                                    | Permanent Erosion Control        |                           |                                                                      |  |       |                   |             |           |
| 80                 | 1 - 2                                                    | Layouts                          |                           |                                                                      |  |       |                   |             |           |
| 81                 | 1                                                        | Survey Coordinate and Curve Data |                           |                                                                      |  |       |                   |             |           |
| 82                 | 1                                                        | Survey Data Layouts              |                           |                                                                      |  |       |                   |             |           |
| 110                | 1 - 2                                                    | Signing                          |                           |                                                                      |  |       |                   |             |           |
| 200                | 1 - 11                                                   | Cross Sections                   |                           |                                                                      |  |       |                   |             |           |
| SPECIAL PROVISIONS |                                                          |                                  |                           |                                                                      |  |       |                   |             |           |
| Number             | Description                                              |                                  |                           |                                                                      |  |       |                   |             |           |
| SSP 1              | Temporary Erosion and Sediment Best Management Practices |                                  |                           |                                                                      |  |       |                   |             |           |
| PSP 98(23)         | Permits and Environmental Considerations                 |                                  |                           |                                                                      |  |       |                   |             |           |
| SP 330(23)         | Hydraulic Mulch                                          |                                  |                           |                                                                      |  |       |                   |             |           |
| SP 463(23)         | TRM Special                                              |                                  |                           |                                                                      |  |       |                   |             |           |



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|  | ND    | ARP-SS-4-999(045) | 4           | 1         |



- Wetland Mitigation Area 1
- Common Excavation - Type C Area 1
- Common Excavation - Type C Area 2
- Upland Buffer Area
- Easement Area
- Existing Delineated Wetland
- Excess Common Excavation - Type C Placement Location

Scope of Work

Wetland Mitigation  
Ward County



12/23/2024

NOTES

- 100-P01 STAGING AREA: No equipment is to be staged or stored on or under Verendrye Electric or SRT Communications utility easements or utility corridors.
- 100-P02 INGRESS/EGRESS: Access the site via the existing field approach off from Ward County 20 located in the southeast quadrant of the mitigation site.
- 100-P03 ELEVATIONS: All final elevations in the plans are to top of topsoil.
- 100-P04 PROJECT COORDINATION: NDDOT Project Representative, Russell Senske, NDDOT Wetland Specialist (701) 328-2188. Do not begin work prior to September 1st or until the crop planted within the easement area has been harvested in full, whichever is later. No construction is allowed until the contractor has received confirmation from NDDOT Project Representative or Engineer.
- 105-P01 UTILITIES: No utility relocations are planned. All utilities on the project need to be protected and remain in existing location.
- 203-010 SHRINKAGE: 20 percent additional volume is included for shrinkage in earth embankment.
- 203-P01 COMMON EXCAVATION: Use material from Common Excavation areas to construct Ditch Block 1 at Sta 0+62.20, Ditch Block 2 at Sta 102+00.00. All "Common Excavation – Type C" will be paid at plan quantity.
- 203-P02 TOPSOIL: Strip topsoil from Common Excavation – Type C Area 1 and Ditch Block 1 area. Spread topsoil evenly back over these areas upon completion of construction.
- Strip and stockpile the top 6 inches of topsoil material separately from the bottom 6 inches of topsoil material from Common Excavation – Type C Area 2 and Ditch Block 2. Place the topsoil material obtained from the top 6 inches uniformly over the Excess Common Excavation – Type C Placement area after placing all excess common excavation. Place the topsoil obtained from the bottom 6 inches uniformly over Ditch Block 2 and Common Excavation – Type C Area 2.
- Stripping of topsoil at the Excess Common Excavation – Type C Placement area prior to placement of the excess Common Excavation – Type C is not required.
- Topsoil will be paid at plan quantity
- 203-P03 EXCESS COMMON EXCAVATION-TYPE C: Dispose of excess common excavation material at the placement area identified in the plans. Grade the excess material placement area to drain east. Exact limits for the area will be determined in the field. Include all costs to place and shape material in the contract unit price for "Common Excavation – Type C".

251-P01 WETLAND SEED: Remove and replace Table 251-02 of the Standard Specifications with the following seed mix for all areas noted as Wetland Seed:

| Scientific name              | Common name             | Pounds Pure Live Seed Per Acre | % of seed mix by weight |
|------------------------------|-------------------------|--------------------------------|-------------------------|
| <i>Glyceria grandis</i>      | American mannagrass     | 2                              | 20.9                    |
| <i>Spartina pectinata</i>    | prairie cordgrass       | 2                              | 20.9                    |
| <i>Poa palustris</i>         | fowl bluegrass          | 1.5                            | 15.6                    |
| <i>Beckmannia syzigachne</i> | American sloughgrass    | 0.5                            | 5.2                     |
| <i>Alisma triviale</i>       | northern water plantain | 0.1                            | 1.0                     |
| <i>Carex hystericina</i>     | bottlebrush sedge       | 1                              | 10.4                    |
| <i>Carex bebbii</i>          | Bebb's Sedge            | 0.3                            | 3.1                     |
| <i>Sparganium eurycarpum</i> | broadfruit bur-reed     | 1.5                            | 15.6                    |
| <i>Asclepias incarnata</i>   | swamp milkweed          | 0.7                            | 7.3                     |

Rate of Seeding = 9.6 Lbs/Acre



NOTES

251-P02 SEEDING CLASS II: Remove and replace Table 251-01 of the Standard Specifications with the following seed mix for all areas noted as Seeding Class II:

| Scientific name               | Common name           | Pounds Pure Live Seed Per Acre | % of seed mix by weight |
|-------------------------------|-----------------------|--------------------------------|-------------------------|
| <i>Elymus hoffmannii</i>      | green wheatgrass      | 5                              | 22.8                    |
| <i>Elymus trachycaulus</i>    | slender wheatgrass    | 2                              | 9.1                     |
| <i>Pascopyrum smithii</i>     | western wheatgrass    | 2                              | 9.1                     |
| <i>Andropogon gerardii</i>    | big bluestem          | 5                              | 22.8                    |
| <i>Panicum virgatum</i>       | switchgrass           | 5                              | 22.8                    |
| <i>Bouteloua gracilis</i>     | blue grama            | 0.25                           | 1.1                     |
| <i>Achillea millefolium</i>   | western yarrow        | 0.2                            | 0.9                     |
| <i>Allium stellatum</i>       | prairie onion         | 0.1                            | 0.5                     |
| <i>Asclepias tuberosa</i>     | butterfly milkweed    | 0.25                           | 1.1                     |
| <i>Astragalus canadensis</i>  | Canada milkvetch      | 1                              | 4.7                     |
| <i>Dalea purpurea</i>         | purple prairie clover | 0.5                            | 2.3                     |
| <i>Gaillardia aristata</i>    | blanket flower        | 0.5                            | 2.3                     |
| <i>Helianthus pauciflorus</i> | stiff sunflower       | 0.1                            | 0.5                     |

Rate of Seeding = 21.9 Lbs/Acre

251-P03 SEEDING CLASS III: Use the following seed mix for all areas noted as Seeding Class III.

| Scientific name                 | Common name              | Pounds Pure Live Seed Per Acre | % of seed mix by weight |
|---------------------------------|--------------------------|--------------------------------|-------------------------|
| <i>Elymus hoffmannii</i>        | green wheatgrass         | 5                              | 23.6                    |
| <i>Elymus trachycaulus</i>      | slender wheatgrass       | 5                              | 23.6                    |
| <i>Pascopyrum smithii</i>       | western wheatgrass       | 5                              | 23.6                    |
| <i>Spartina pectinata</i>       | prairie cordgrass        | 1                              | 4.7                     |
| <i>Anemone canadensis</i>       | Canada anemone           | 0.1                            | 0.5                     |
| <i>Agastache foeniculum</i>     | blue giant hyssop        | 0.03                           | 0.1                     |
| <i>Cleome serrulata</i>         | rocky mountain bee plant | 0.8                            | 3.8                     |
| <i>Helianthus maximiliani</i>   | Maximilian sunflower     | 1                              | 4.7                     |
| <i>Rudbeckia hirta</i>          | black-eyed Susan         | 0.8                            | 3.8                     |
| <i>Solidago rigida</i>          | gray goldenrod           | 0.25                           | 1.2                     |
| <i>Symphyotrichum ericoides</i> | heath aster              | 0.5                            | 2.4                     |
| <i>Verbena hastata</i>          | blue vervain             | 1                              | 4.7                     |
| <i>Dalea purpurea</i>           | purple prairie clover    | 0.5                            | 2.4                     |
| <i>Zizia aptera</i>             | heart-leaved alexander   | 0.2                            | 0.9                     |

Rate of Seeding = 21.18 Lbs/Acre

- 253-P01 TEMPORARY STABILIZATION: Provide and install any temporary stabilization required to accommodate phasing and permitting requirements. Include all costs for temporary stabilization in the contract unit price of other items.
- 260-P01 SILT FENCE SUPPORTED: An additional quantity of 100 LF of Silt Fence has been included in the project quantities. The location and quantity will be determined in the field at the discretion of the Engineer or Project Representative.



1/16/2025

ENVIRONMENTAL NOTES

|       |                   |             |           |
|-------|-------------------|-------------|-----------|
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| ND    | APR-SS-4-999(045) | 6           | 3         |

ENVIRONMENTAL NOTES (EN): The North Dakota Department of Transportation has 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: March 15 - May 15*<br>Fall: September 10 – November 15 |

\*Time frames can differ slightly, depending on the year

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 USFWS (701-355-8513), FHWA (701-221-9464), and NDDOT Environmental and Transportation Services (701-328-2592). 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 WETLAND MITIGATION: 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.



Estimated Quantities

|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
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| SPEC | CODE | ITEM DESCRIPTION                           | UNIT  | ARP-SS-4-999(045) | TOTAL |
|------|------|--------------------------------------------|-------|-------------------|-------|
| 103  | 0100 | CONTRACT BOND                              | L SUM | 1                 | 1     |
| 201  | 0330 | CLEARING & GRUBBING                        | L SUM | 1                 | 1     |
| 203  | 0103 | COMMON EXCAVATION-TYPE C                   | CY    | 4803              | 4803  |
| 203  | 0109 | TOPSOIL                                    | CY    | 3618              | 3618  |
| 251  | 0200 | SEEDING CLASS II                           | ACRE  | 26.63             | 26.63 |
| 251  | 0300 | SEEDING CLASS III                          | ACRE  | 7.12              | 7.12  |
| 251  | 1000 | WETLAND SEED                               | ACRE  | 24.7              | 24.7  |
| 253  | 0201 | HYDRAULIC MULCH                            | ACRE  | 3.11              | 3.11  |
| 255  | 0200 | TRM SPECIAL                                | SY    | 979               | 979   |
| 260  | 0200 | SILT FENCE SUPPORTED                       | LF    | 240               | 240   |
| 265  | 0100 | STABILIZED CONSTRUCTION ACCESS             | EA    | 1                 | 1     |
| 265  | 0101 | REMOVE STABILIZED CONSTRUCTION ACCESS      | EA    | 1                 | 1     |
| 702  | 0100 | MOBILIZATION                               | L SUM | 1                 | 1     |
| 754  | 0112 | FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING | SF    | 1.75              | 1.75  |
| 900  | 0700 | FLEXIBLE GROWTH MEDIUM                     | SY    | 979               | 979   |

| Earthwork Summary               |                    |                                                |                                           |
|---------------------------------|--------------------|------------------------------------------------|-------------------------------------------|
| Location                        | Embankment<br>(CY) | Common Excavation - Type C<br>(CY)<br>Pay Item | Excess Common Excavation - Type C<br>(CY) |
|                                 | (A)                | (B)                                            | (C) = (B) - (A)                           |
| West Ditch Berm and Borrow Area | 102                | 102                                            | 0                                         |
| East Wetland Mitigation Area    | 35                 | 4701                                           | 4666                                      |
| Totals                          | 137                | 4803                                           | 4666                                      |

- Notes:
1. This Computation is not a balance sheet.
  2. 20 percent additional volume is included for shrinkage in earth embankment.

| Topsoil Summary                                        |                        |                |                   |                |
|--------------------------------------------------------|------------------------|----------------|-------------------|----------------|
| Location                                               | Topsoil from Stripping |                | Topsoil Placement |                |
|                                                        | Area<br>(SY)           | Volume<br>(CY) | Area<br>(SY)      | Volume<br>(CY) |
| Ditch Block 1                                          | 170                    | 57             | 170               | 57             |
| Common Excavation - Type C Area 1                      | 351                    | 117            | 351               | 117            |
| Common Excavation - Type C Area 2 and<br>Ditch Block 2 | 10333                  | 3444           | 10333             | 1722           |
| Excess Common Excavation - Type C Area                 |                        |                |                   | 1722           |
| Total                                                  | 10854                  | 3618           | 10854             | 3618           |

Data Tables

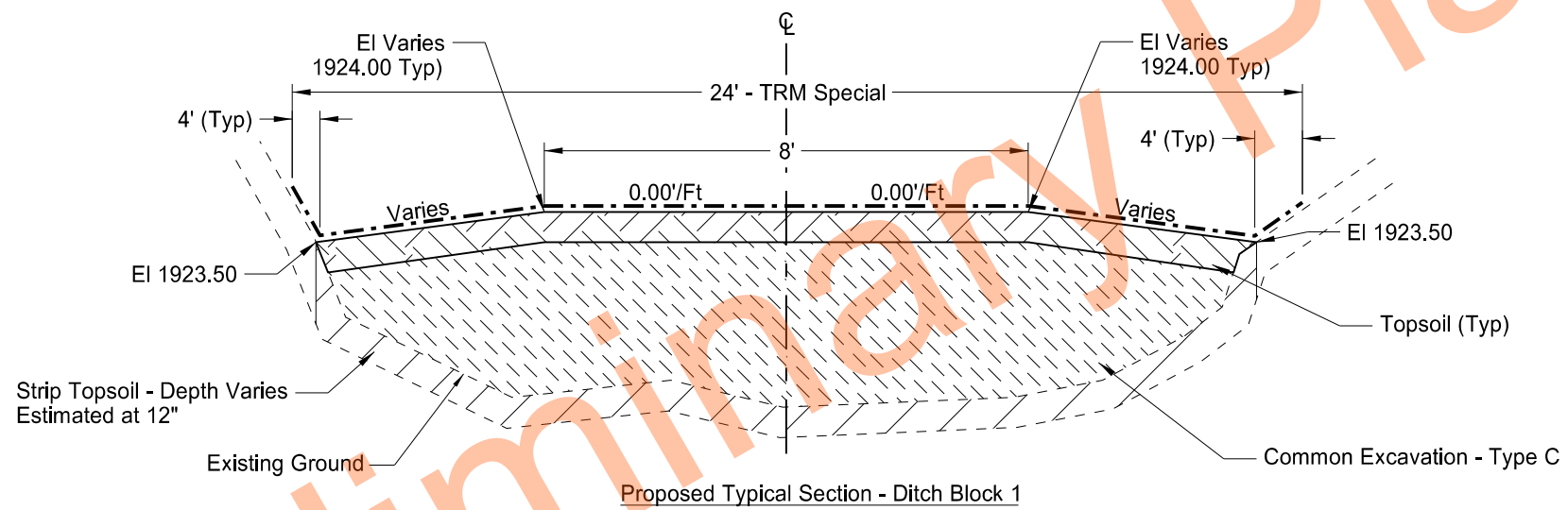
Wetland Mitigation  
Ward County



12/23/2024



|  |       |                   |             |           |
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|  | ND    | ARP-SS-4-999(045) | 30          | 1         |



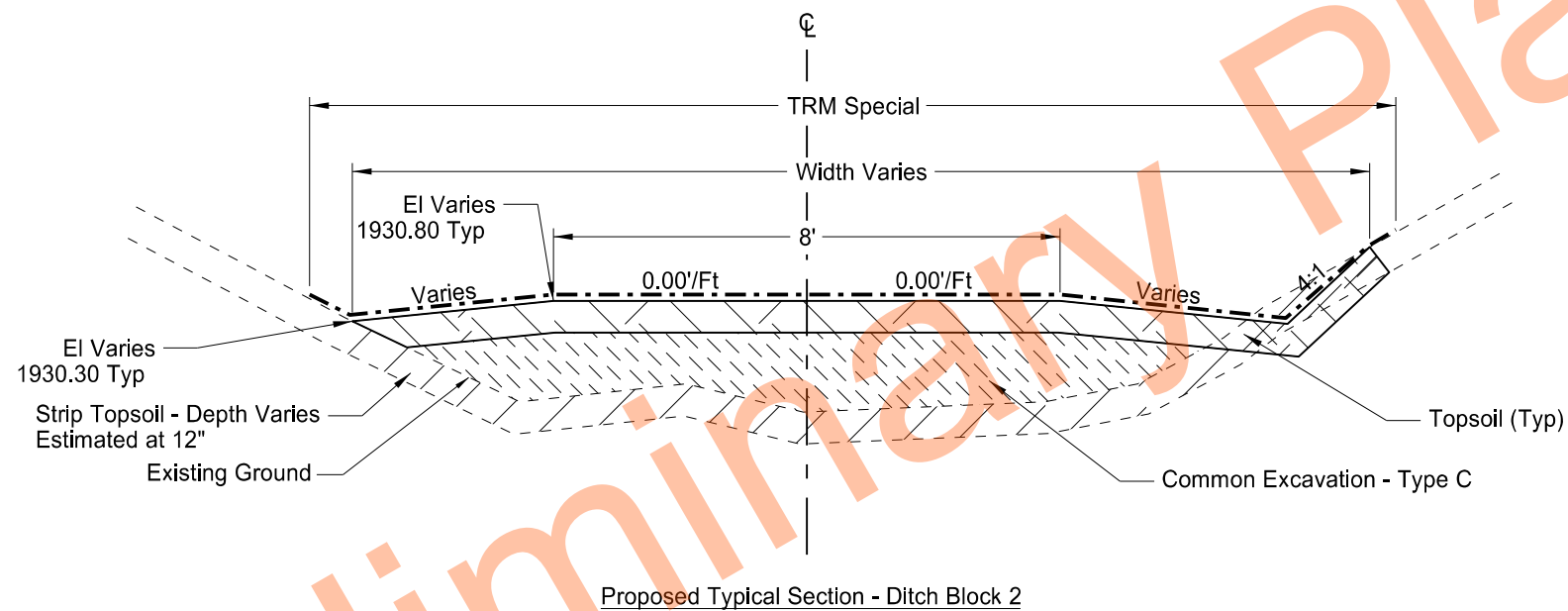
Proposed Typical Section  
Ditch Block 1

Wetland Mitigation Bank  
Ward County



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|--|-------|-------------------|-------------|-----------|
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|  | ND    | ARP-SS-4-999(045) | 30          | 2         |

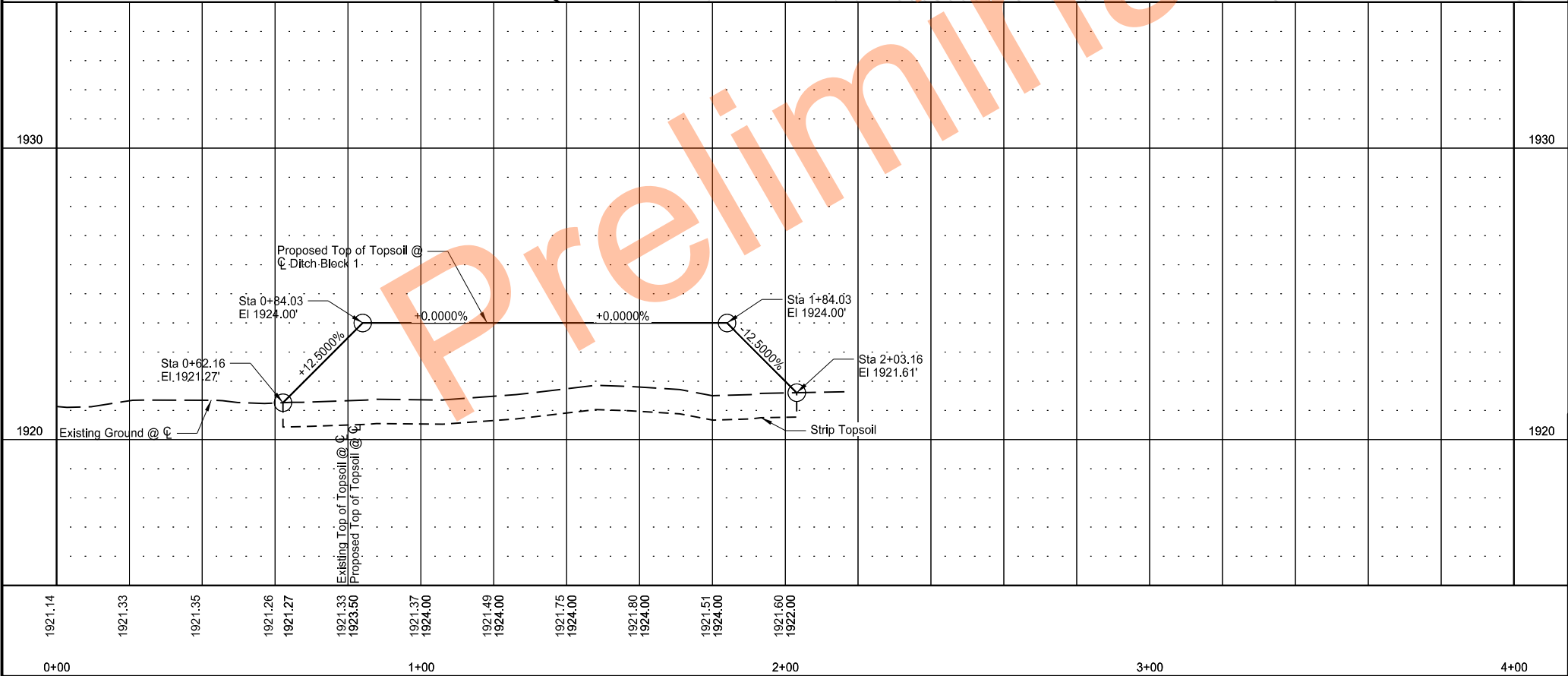
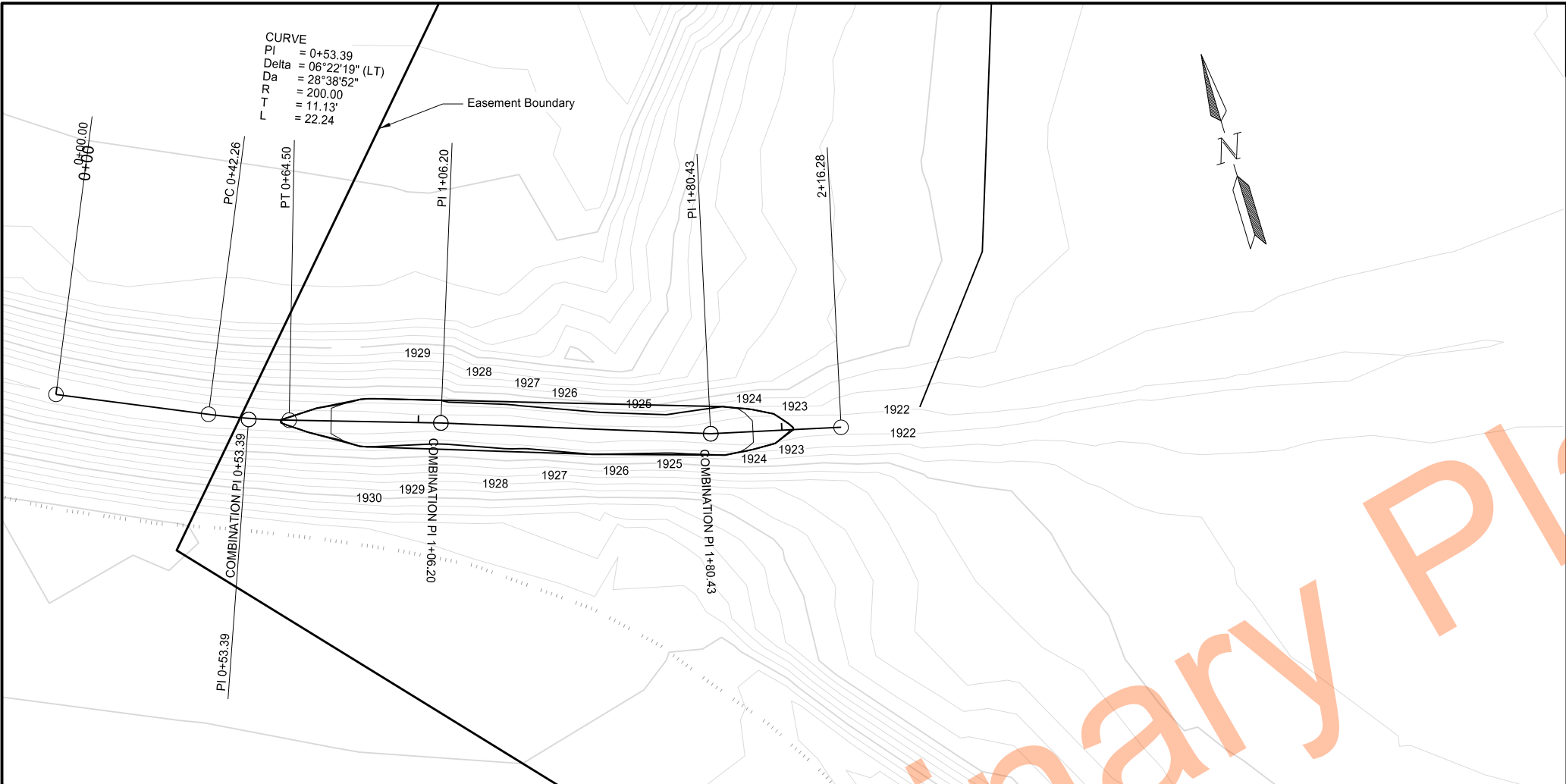


Proposed Typical Section  
Ditch Block 2

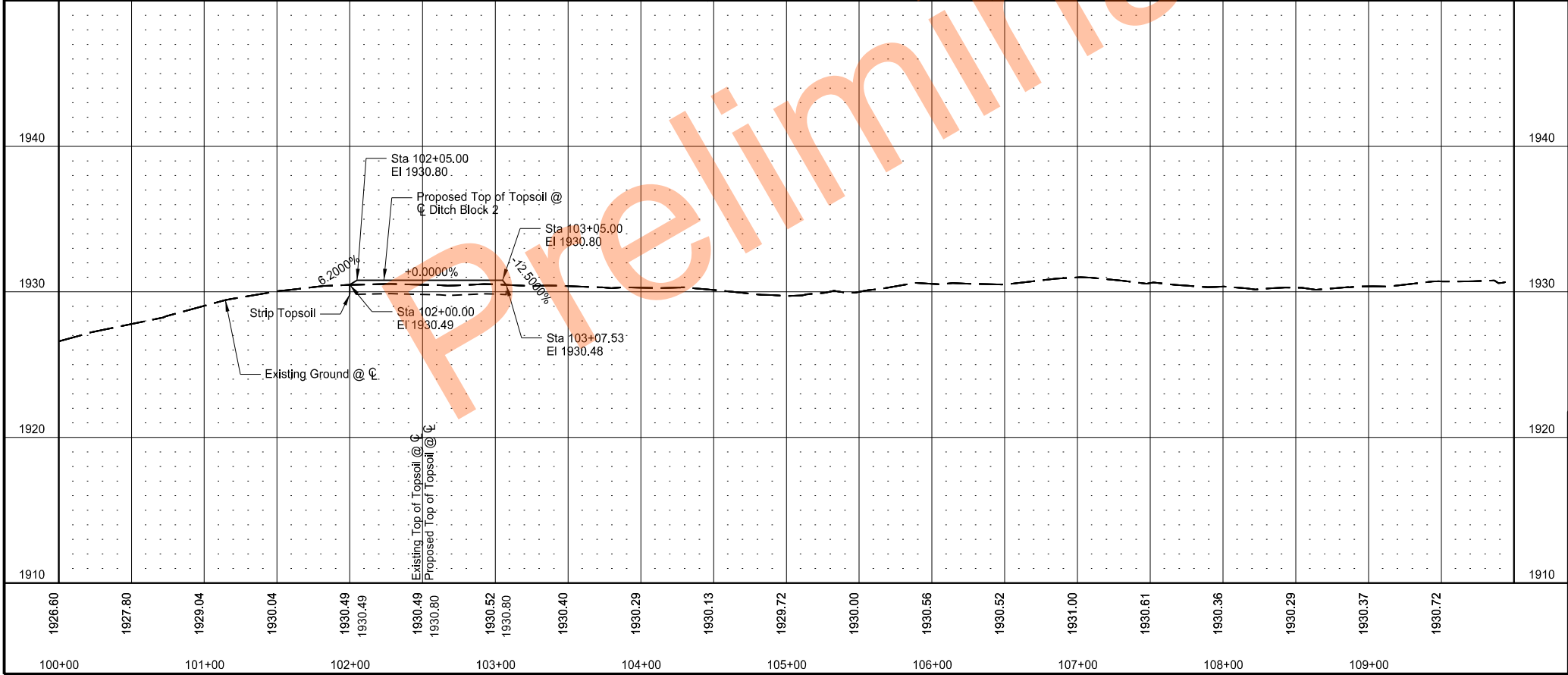
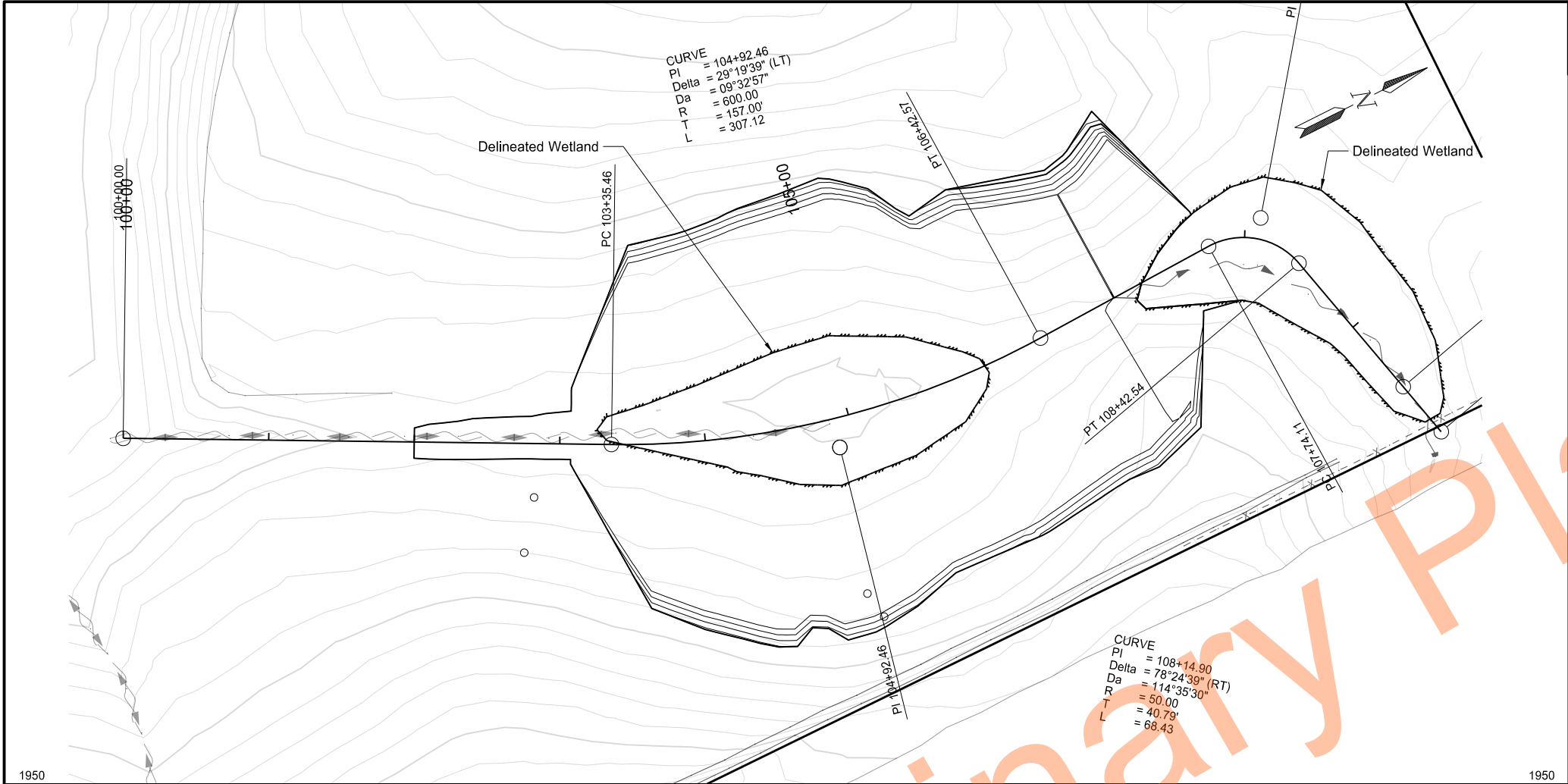
Wetland Mitigation Bank  
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|----------------------------------------------|-------------------|----------------------------------------|-----------|
|                                              |                   |                                        |           |
| ND                                           | ARP-SS-4-999(045) | 60                                     | 1         |
| Plan & Profile<br>Site 1 - West Wetland Area |                   | Wetland Mitigation Bank<br>Ward County |           |
| 12/26/2024                                   |                   | 12/26/2024                             |           |



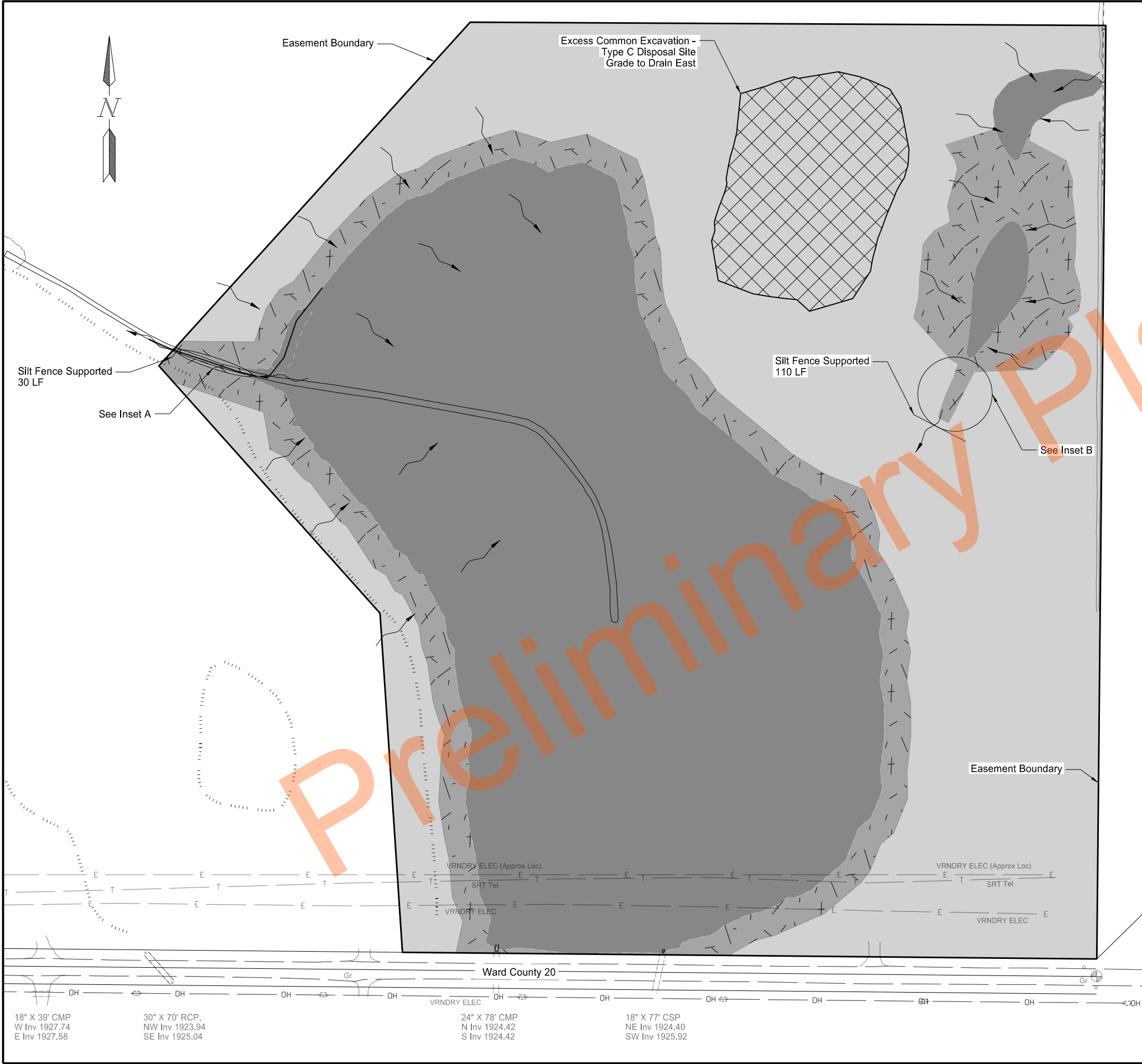
| STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
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Plan & Profile  
Site 2 - East Wetland Area

Wetland Mitigation Bank  
Ward County

JEFFREY T. LANSINK  
REGISTERED  
PROFESSIONAL  
ENGINEER  
NORTH DAKOTA  
PE-5244

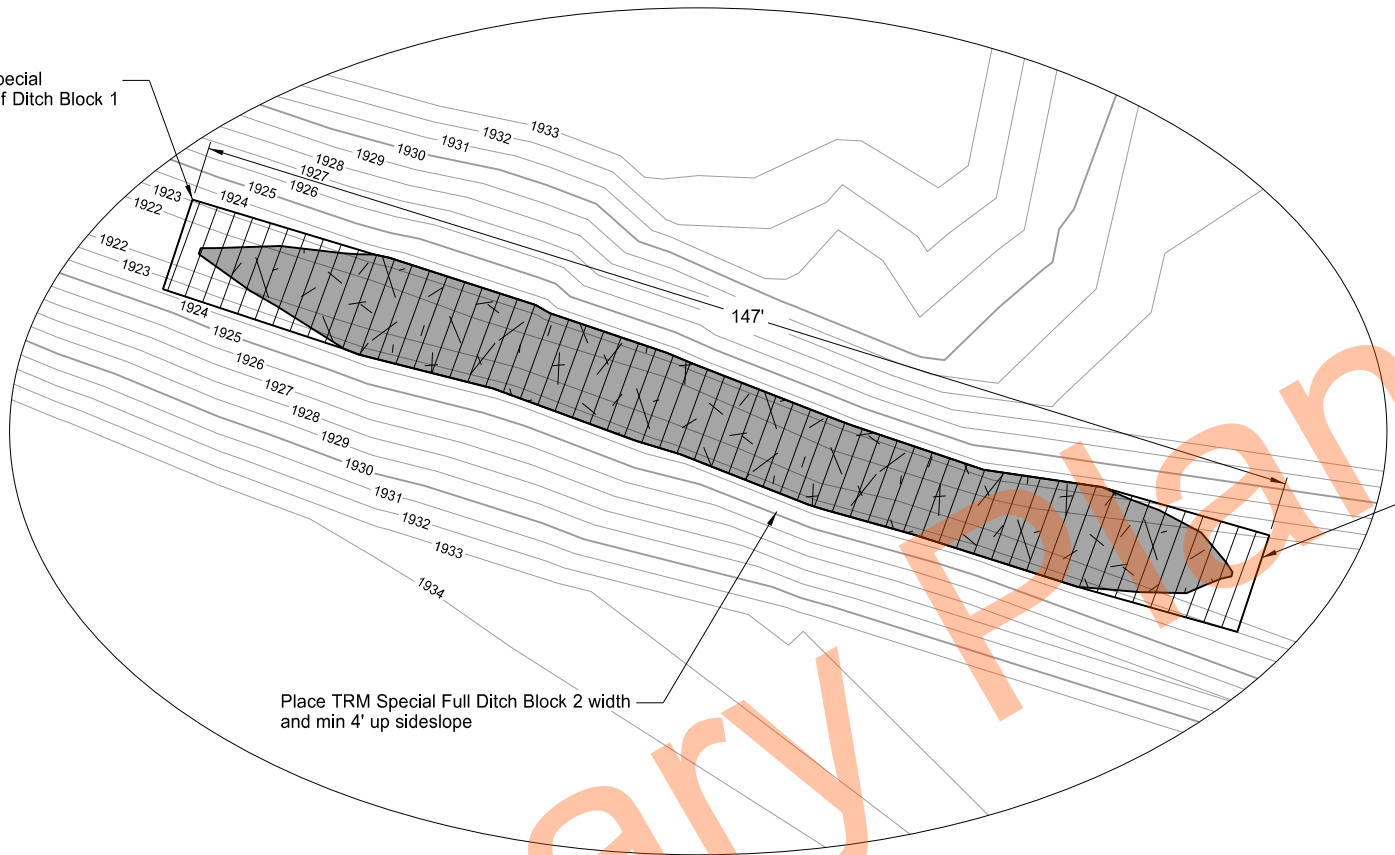
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | ND                     | ARP-SS-4-999(045)                                                                                                                                | 77          | 1         |
| SPEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CODE | BID ITEM               | QTY                                                                                                                                              | UNIT        |           |
| 251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0200 | SEEDING CLASS II       | 26.63                                                                                                                                            | ACRE        |           |
| 251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0300 | SEEDING CLASS III      | 7.12                                                                                                                                             | ACRE        |           |
| 251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1000 | WETLAND SEED           | 24.70                                                                                                                                            | ACRE        |           |
| 253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0201 | HYDRAULIC MULCH        | 3.11                                                                                                                                             | ACRE        |           |
| 255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0200 | TRM SPECIAL            | 979                                                                                                                                              | SY          |           |
| 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0200 | SILT FENCE SUPPORTED   | 140                                                                                                                                              | LF          |           |
| 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0700 | FLEXIBLE GROWTH MEDIUM | 979                                                                                                                                              | SY          |           |
| Note: See Section 77 Sheet 3 for seeding boundary staking information.                                                                                                                                                                                                                                                                                                                                                                                                              |      |                        |                                                                                                                                                  |             |           |
| <div><div></div>Flow Line</div> <div><div></div>Excess Common Excavation - Type C Disposal Site</div> <div><div></div>Hydraulic Mulch</div> <div><div></div>Seeding Class II</div> <div><div></div>Seeding Class III</div> <div><div></div>Wetland Seed</div> <div><div></div>TRM Special</div> <div><div></div>Flexible Growth Medium</div> <div><div></div>Seeding Class III - Wet Prairie</div> <div><div></div>Hydraulic Mulch</div> <div><div></div>Silt Fence Supported</div> |      |                        |                                                                                                                                                  |             |           |
| Permanent Erosion Control                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                        | <div><div>JEFFREY T. LANSINK</div><div>REGISTERED</div><div>PROFESSIONAL</div><div>PE-5244</div><div>ENGINEER</div><div>NORTH DAKOTA</div></div> |             |           |
| Wetland Mitigation Bank<br>Ward County                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                        | 1/3/2025                                                                                                                                         |             |           |

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Extend TRM Special  
3' beyond toe of Ditch Block 1

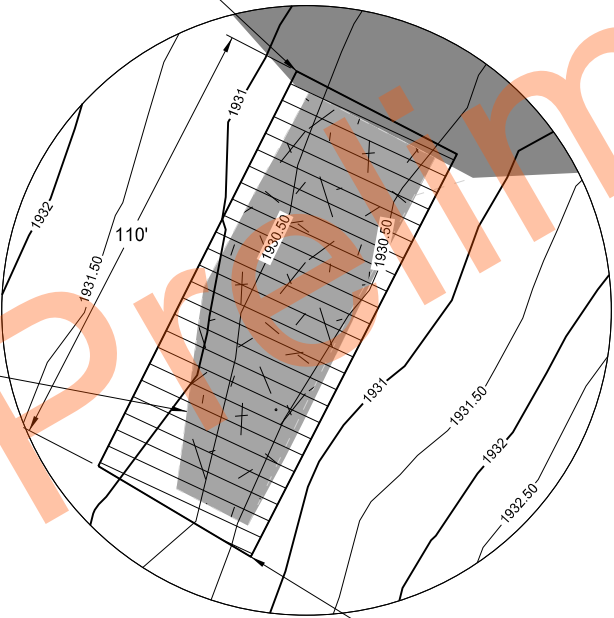


Extend TRM Special  
3' beyond toe of Ditch Block 1

Place TRM Special Full Ditch Block 2 width  
and min 4' up sideslope

Inset A

Extend TRM Special  
3' beyond toe of Ditch Block 2



Place TRM Special Full Ditch Block 2 width  
and min 4' up sideslope

Extend TRM Special  
3' beyond toe of Ditch Block 2

Inset B

- Seeding Class III
- Wetland Seed
- TRM Special  
Flexible Growth Medium  
Seeding Class III - Wet Prairie  
Hydraulic Mulch

Permanent Erosion Control  
Details

Wetland Mitigation Bank  
Ward County



1/3/2025



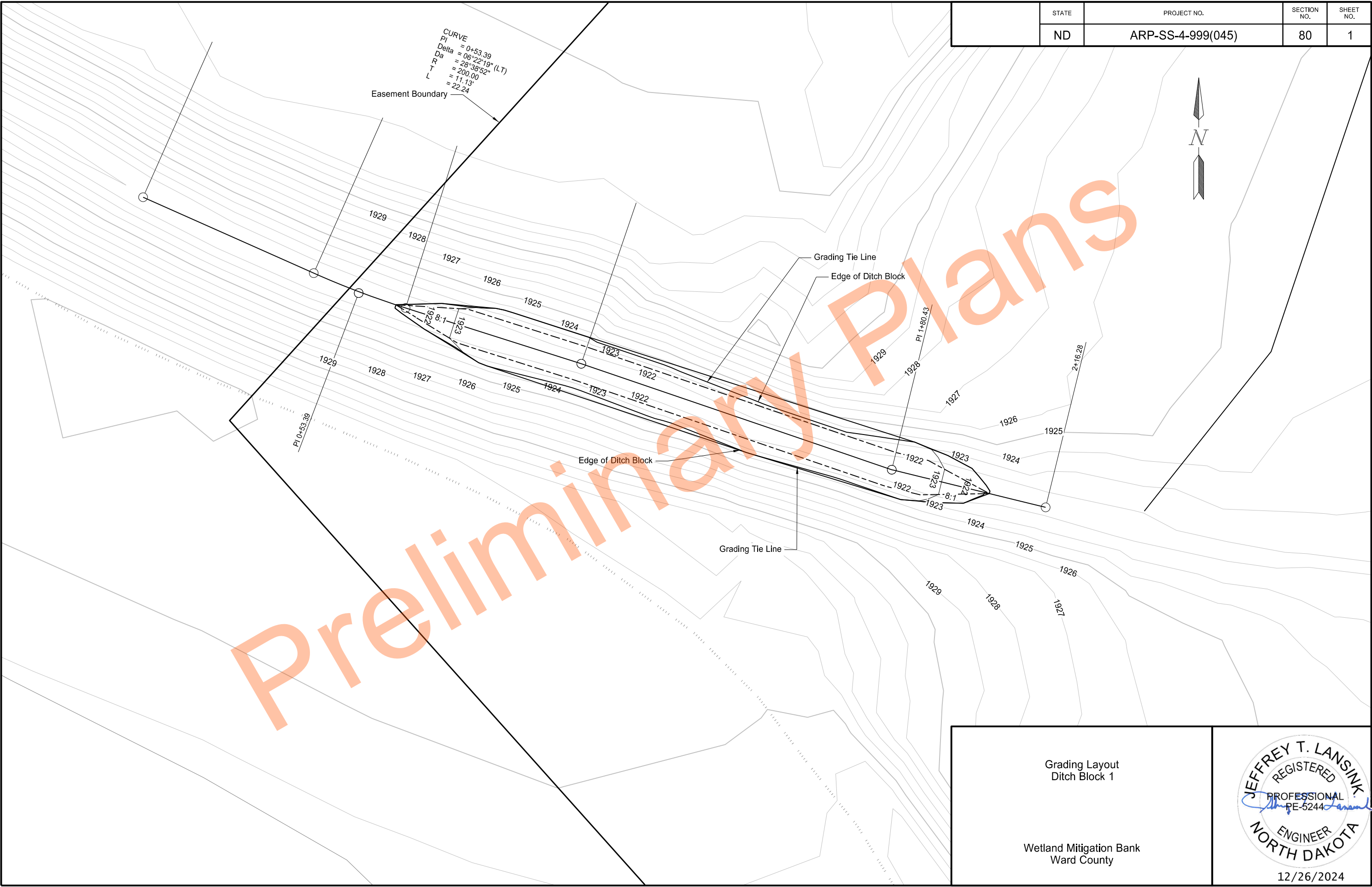
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| Wetland Seeding Boundary - Site 1 |             |              |              |             |              |
|-----------------------------------|-------------|--------------|--------------|-------------|--------------|
| Point Number                      | Northing    | Easting      | Point Number | Northing    | Easting      |
| 1                                 | 375472.1605 | 1785856.5614 | 68           | 374094.5315 | 1786096.7058 |
| 2                                 | 375395.1593 | 1785783.1141 | 69           | 374094.0870 | 1786121.0698 |
| 3                                 | 375292.7215 | 1785701.8439 | 70           | 374083.2321 | 1786209.6354 |
| 4                                 | 375297.9202 | 1785693.6167 | 71           | 374083.1855 | 1786210.4912 |
| 5                                 | 375295.8802 | 1785690.1116 | 72           | 374085.5508 | 1786309.2811 |
| 6                                 | 375283.3296 | 1785680.1874 | 73           | 374084.8849 | 1786379.8403 |
| 7                                 | 375278.1697 | 1785677.3855 | 74           | 374084.9601 | 1786380.2690 |
| 8                                 | 375212.0816 | 1785655.0884 | 75           | 374090.0086 | 1786386.8698 |
| 9                                 | 375197.8087 | 1785643.8058 | 76           | 374095.0731 | 1786410.4541 |
| 10                                | 375196.0367 | 1785642.8211 | 77           | 374106.4143 | 1786417.4305 |
| 11                                | 375189.6450 | 1785641.0464 | 78           | 374106.9587 | 1786423.5275 |
| 12                                | 375185.2880 | 1785635.8984 | 79           | 374110.8134 | 1786432.2224 |
| 13                                | 375185.8543 | 1785584.7697 | 80           | 374118.6964 | 1786470.5253 |
| 14                                | 375184.2488 | 1785588.4949 | 81           | 374137.1073 | 1786495.2084 |
| 15                                | 375182.8096 | 1785592.2607 | 82           | 374155.6868 | 1786535.1907 |
| 16                                | 375179.9138 | 1785597.7293 | 83           | 374165.3761 | 1786572.6736 |
| 17                                | 375176.0872 | 1785600.9111 | 84           | 374174.8541 | 1786593.2236 |
| 18                                | 375174.7680 | 1785601.7813 | 85           | 374189.9509 | 1786614.1537 |
| 19                                | 375174.2010 | 1785601.6426 | 86           | 374189.5489 | 1786627.8412 |
| 20                                | 375173.9173 | 1785600.3803 | 87           | 374202.1682 | 1786656.2718 |
| 21                                | 375173.0182 | 1785598.1014 | 88           | 374257.3730 | 1786721.9324 |
| 22                                | 375172.0034 | 1785595.7941 | 89           | 374320.4294 | 1786747.6153 |
| 23                                | 375172.1515 | 1785589.6534 | 90           | 374341.0966 | 1786771.7825 |
| 24                                | 375172.8446 | 1785581.5871 | 91           | 374388.3497 | 1786790.7979 |
| 25                                | 375158.8172 | 1785625.8367 | 92           | 374398.9720 | 1786791.9329 |
| 26                                | 375142.6596 | 1785661.2126 | 93           | 374425.5936 | 1786788.3682 |
| 27                                | 375131.1562 | 1785672.3359 | 94           | 374496.1159 | 1786796.0139 |
| 28                                | 375117.7863 | 1785675.7165 | 95           | 374554.0808 | 1786795.5719 |
| 29                                | 375100.9592 | 1785681.3396 | 96           | 374596.5301 | 1786787.7166 |
| 30                                | 375089.5688 | 1785686.5858 | 97           | 374650.3096 | 1786794.5296 |
| 31                                | 375086.7309 | 1785679.7277 | 98           | 374683.6282 | 1786786.0819 |
| 32                                | 375076.9612 | 1785681.1155 | 99           | 374719.4332 | 1786790.8269 |
| 33                                | 375076.7485 | 1785693.2244 | 100          | 374777.1617 | 1786765.2501 |
| 34                                | 375041.8281 | 1785720.8316 | 101          | 374826.5983 | 1786734.9821 |
| 35                                | 375034.2553 | 1785719.3943 | 102          | 374837.5300 | 1786733.0708 |
| 36                                | 375016.4896 | 1785734.8260 | 103          | 374871.8049 | 1786736.7495 |
| 37                                | 375007.5329 | 1785750.0571 | 104          | 374894.6820 | 1786730.4758 |
| 38                                | 374971.3579 | 1785775.7942 | 105          | 374919.0371 | 1786719.4641 |
| 39                                | 374935.8027 | 1785804.0622 | 106          | 374942.5856 | 1786658.8214 |
| 40                                | 374923.9039 | 1785820.1111 | 107          | 374956.6345 | 1786642.9941 |
| 41                                | 374884.9379 | 1785847.6737 | 108          | 374987.4370 | 1786584.5264 |
| 42                                | 374866.6748 | 1785860.7051 | 109          | 375010.5330 | 1786562.3962 |
| 43                                | 374846.8892 | 1785871.3764 | 110          | 375092.7061 | 1786464.4310 |
| 44                                | 374832.0464 | 1785895.8967 | 111          | 375105.8052 | 1786444.8536 |
| 45                                | 374805.4540 | 1785909.8014 | 112          | 375136.4847 | 1786425.7050 |
| 46                                | 374796.8147 | 1785928.3584 | 113          | 375156.0782 | 1786405.0709 |
| 47                                | 374773.5564 | 1785936.8550 | 114          | 375177.3436 | 1786383.2728 |
| 48                                | 374717.0214 | 1785967.8552 | 115          | 375206.5815 | 1786370.8022 |
| 49                                | 374678.1469 | 1785973.0316 | 116          | 375246.0040 | 1786357.4997 |
| 50                                | 374655.5202 | 1785986.5696 | 117          | 375294.5405 | 1786334.6303 |
| 51                                | 374631.8632 | 1785986.3588 | 118          | 375342.0597 | 1786327.4856 |
| 52                                | 374569.1817 | 1785994.9971 | 119          | 375396.5300 | 1786325.0448 |
| 53                                | 374539.4357 | 1786004.1133 | 120          | 375428.9182 | 1786313.6415 |
| 54                                | 374498.6490 | 1786019.4272 | 121          | 375456.0322 | 1786311.8884 |
| 55                                | 374451.2665 | 1786011.7285 | 122          | 375490.1560 | 1786303.0642 |
| 56                                | 374414.3282 | 1786015.8434 | 123          | 375527.7050 | 1786295.6444 |
| 57                                | 374387.2733 | 1786007.9597 | 124          | 375543.9312 | 1786289.8374 |
| 58                                | 374372.7236 | 1786006.9759 | 125          | 375574.4660 | 1786229.0511 |
| 59                                | 374321.5737 | 1786014.5527 | 126          | 375565.9483 | 1786187.8864 |
| 60                                | 374271.3538 | 1786025.1921 | 127          | 375555.4343 | 1786163.0552 |
| 61                                | 374227.6642 | 1786031.9950 | 128          | 375571.9582 | 1786136.3616 |
| 62                                | 374199.7060 | 1786032.2714 | 129          | 375582.4547 | 1786096.7676 |
| 63                                | 374178.3386 | 1786040.5358 | 130          | 375570.7106 | 1786057.6969 |
| 64                                | 374152.4003 | 1786055.1139 | 131          | 375539.2125 | 1785972.1727 |
| 65                                | 374103.7331 | 1786044.5110 | 132          | 375517.4080 | 1785942.1627 |
| 66                                | 374091.8891 | 1786069.1387 | 133          | 375503.3100 | 1785896.5513 |
| 67                                | 374091.1584 | 1786090.8265 |              |             |              |

| Wetland Seeding Boundary - Site 2 |            |             |
|-----------------------------------|------------|-------------|
| Point Number                      | Northing   | Easting     |
| 1                                 | 375579.499 | 1787049.469 |
| 2                                 | 375576.663 | 1787041.768 |
| 3                                 | 375584.131 | 1787033.047 |
| 4                                 | 375604.079 | 1787018.911 |
| 5                                 | 375625.274 | 1787008.71  |
| 6                                 | 375638.521 | 1787004.994 |
| 7                                 | 375668.652 | 1787000.822 |
| 8                                 | 375692.156 | 1787004.787 |
| 9                                 | 375709.826 | 1787017.912 |
| 10                                | 375723.61  | 1787030.578 |
| 11                                | 375737.71  | 1787062     |
| 12                                | 375749.05  | 1787121.062 |
| 13                                | 375747.577 | 1787158.069 |
| 14                                | 375735.265 | 1787195.579 |
| 15                                | 375716.297 | 1787205.097 |
| 16                                | 375700.41  | 1787188.723 |
| 17                                | 375686.735 | 1787139.576 |
| 18                                | 375682.025 | 1787127.453 |
| 19                                | 375650.425 | 1787080.856 |
| 20                                | 375641.169 | 1787073.872 |
| 21                                | 375579.499 | 1787049.469 |
| 22                                | 375204.988 | 1786955.128 |
| 23                                | 375214.897 | 1786950.13  |
| 24                                | 375240.935 | 1786954.32  |
| 25                                | 375281.987 | 1786958.531 |
| 26                                | 375336.782 | 1786961.904 |
| 27                                | 375336.782 | 1786961.904 |
| 28                                | 375376.079 | 1786968.519 |
| 29                                | 375423.074 | 1786992.877 |
| 30                                | 375453.373 | 1787019.362 |
| 31                                | 375462.06  | 1787029.223 |
| 32                                | 375463.579 | 1787040.688 |
| 33                                | 375457.047 | 1787049.747 |
| 34                                | 375434.07  | 1787063.559 |
| 35                                | 375393.325 | 1787069.055 |
| 36                                | 375337.967 | 1787064.469 |
| 37                                | 375313.316 | 1787051.427 |
| 38                                | 375291.913 | 1787033.912 |
| 39                                | 375277.913 | 1787023.832 |
| 40                                | 375273.9   | 1787018.388 |
| 41                                | 375237.947 | 1786989.469 |
| 42                                | 375207.856 | 1786964.947 |
| 43                                | 375204.988 | 1786955.128 |

| Seeding Class III - Wet Prairie Boundary - Site 2 |            |             |
|---------------------------------------------------|------------|-------------|
| Point Number                                      | Northing   | Easting     |
| 1                                                 | 375636.299 | 1787005.618 |
| 2                                                 | 375636.225 | 1787003.512 |
| 3                                                 | 375606.862 | 1786911.568 |
| 4                                                 | 375579.433 | 1786928.268 |
| 5                                                 | 375559.596 | 1786933.269 |
| 6                                                 | 375493.033 | 1786914.892 |
| 7                                                 | 375462.431 | 1786919.777 |
| 8                                                 | 375445.513 | 1786890.24  |
| 9                                                 | 375418.088 | 1786868.513 |
| 10                                                | 375359.189 | 1786862.378 |
| 11                                                | 375335.857 | 1786861.746 |
| 12                                                | 375305.179 | 1786857.028 |
| 13                                                | 375280.637 | 1786851.257 |
| 14                                                | 375202.206 | 1786921.513 |
| 15                                                | 375194.879 | 1786935.703 |
| 16                                                | 375168.575 | 1786926.639 |
| 17                                                | 375132.132 | 1786910.034 |
| 18                                                | 375093.643 | 1786897.391 |
| 19                                                | 375083.817 | 1786916.418 |
| 20                                                | 375179.638 | 1786965.217 |
| 21                                                | 375178.13  | 1786968.137 |
| 22                                                | 375183.672 | 1787081.814 |
| 23                                                | 375210.2   | 1787111.191 |
| 24                                                | 375250.274 | 1787144.765 |
| 25                                                | 375261.685 | 1787149.988 |
| 26                                                | 375276.719 | 1787143.069 |
| 27                                                | 375286.309 | 1787148.538 |
| 28                                                | 375294.724 | 1787161.653 |
| 29                                                | 375314.46  | 1787165.293 |
| 30                                                | 375322.138 | 1787165.134 |
| 31                                                | 375348.048 | 1787162.145 |
| 32                                                | 375381.668 | 1787153.338 |
| 33                                                | 375446.742 | 1787157.046 |
| 34                                                | 375517.174 | 1787149.421 |
| 35                                                | 375539.26  | 1787150.889 |
| 36                                                | 375576.857 | 1787139.348 |
| 37                                                | 375614.391 | 1787068.603 |
| 38                                                | 375638.668 | 1787072.906 |
| 39                                                | 375579.499 | 1787049.469 |
| 40                                                | 375576.663 | 1787041.768 |
| 41                                                | 375584.131 | 1787033.047 |
| 42                                                | 375602.671 | 1787019.909 |
| 43                                                | 375622.339 | 1787010.122 |

| Seeding Class III - Wet Prairie Boundary - Site 1 |             |              |              |             |              |
|---------------------------------------------------|-------------|--------------|--------------|-------------|--------------|
| Point Number                                      | Northing    | Easting      | Point Number | Northing    | Easting      |
| 1                                                 | 375237.1091 | 1785471.7566 | 40           | 374558.8571 | 1786845.5369 |
| 2                                                 | 375235.5787 | 1785609.9273 | 41           | 374493.6035 | 1786846.0346 |
| 3                                                 | 375298.2401 | 1785631.3879 | 42           | 374426.2261 | 1786838.7297 |
| 4                                                 | 375334.3267 | 1785656.7698 | 43           | 374376.1289 | 1786839.7767 |
| 5                                                 | 375349.7437 | 1785683.2587 | 44           | 374311.0616 | 1786813.5925 |
| 6                                                 | 375428.0207 | 1785745.3607 | 45           | 374290.3197 | 1786789.3379 |
| 7                                                 | 375509.3045 | 1785822.8929 | 46           | 374240.3695 | 1786768.9847 |
| 8                                                 | 375549.5343 | 1785876.7847 | 47           | 374217.9277 | 1786752.6795 |
| 9                                                 | 375562.7305 | 1785919.4783 | 48           | 374159.3431 | 1786683.0344 |
| 10                                                | 375583.7364 | 1785948.3893 | 49           | 374118.0914 | 1786589.5359 |
| 11                                                | 375618.1559 | 1786041.8456 | 50           | 374108.4202 | 1786552.1228 |
| 12                                                | 375634.4081 | 1786095.9141 | 51           | 374080.2450 | 1786502.6017 |
| 13                                                | 375611.5624 | 1786167.3788 | 52           | 374085.1716 | 1785989.2942 |
| 14                                                | 375626.9531 | 1786235.9524 | 53           | 374144.4724 | 1786002.2138 |
| 15                                                | 375579.6255 | 1786330.1686 | 54           | 374190.1351 | 1785982.3636 |
| 16                                                | 375541.0487 | 1786343.9745 | 55           | 374262.3115 | 1785975.9976 |
| 17                                                | 375501.2706 | 1786351.8348 | 56           | 374308.7484 | 1785966.1443 |
| 18                                                | 375463.9746 | 1786361.4792 | 57           | 374370.7240 | 1785956.7265 |
| 19                                                | 375439.0222 | 1786363.0926 | 58           | 374452.5313 | 1785961.2783 |
| 20                                                | 375406.1577 | 1786374.6635 | 59           | 374493.5323 | 1785967.9402 |
| 21                                                | 375346.9091 | 1786377.3185 | 60           | 374523.3073 | 1785956.7608 |
| 22                                                | 375309.2222 | 1786382.9849 | 61           | 374558.3739 | 1785946.0140 |
| 23                                                | 375264.7146 | 1786403.9559 | 62           | 374628.6559 | 1785936.3282 |
| 24                                                | 375208.5407 | 1786424.3246 | 63           | 374661.3249 | 1785924.8303 |
| 25                                                | 375196.6455 | 1786439.2075 | 64           | 374701.1676 | 1785919.5250 |
| 26                                                | 375171.7708 | 1786462.6210 | 65           | 374760.2204 | 1785888.4949 |
| 27                                                | 375141.3893 | 1786481.5836 | 66           | 374767.2749 | 1785873.3420 |
| 28                                                | 375047.0913 | 1786596.6147 | 67           | 374796.5038 | 1785858.0586 |
| 29                                                | 375026.8686 | 1786618.9100 | 68           | 374811.1678 | 1785833.8340 |
| 30                                                | 374985.9429 | 1786685.2949 | 69           | 374888.5015 | 1785783.9087 |
| 31                                                | 374958.2513 | 1786756.6072 | 70           | 374899.5477 | 1785769.00   |



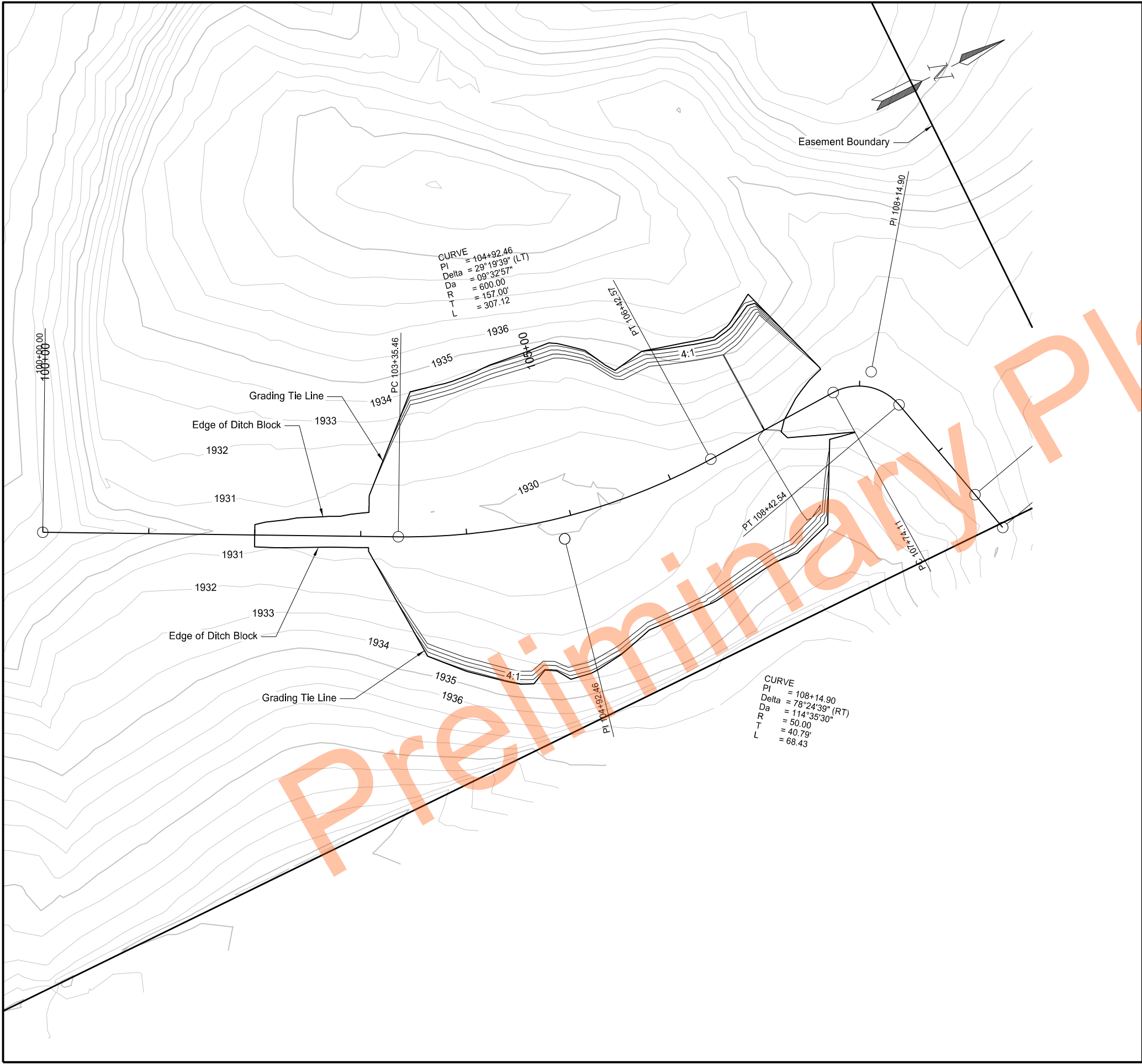
Grading Layout  
Ditch Block 1

Wetland Mitigation Bank  
Ward County



12/26/2024





| STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|-------|-------------------|-------------|-----------|
| ND    | ARP-SS-4-999(045) | 80          | 2         |

Grading Layout  
Ditch Block 2

Wetland Mitigation Bank  
Ward County



12/26/2024



|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 82          | 1         |

Beginning chain Pr\_DitchBlock2 Description

START ( ) 10000.000 374911.254 1786814.694

PC ( ) 10345.393 375218.144 1786973.170  
Tangential Direction: N27.311°E  
Tangential Length: 345.393

Element: Circular PC ( ) 10345.393 375218.144 1786973.170  
COMBINATION PI ( ) 10502.395 375357.644 1787045.207  
CC ( ) 375493.441 1786440.055  
PT ( ) 10652.511 375514.549 1787039.683  
Radius: 600.000  
Delta: 29.328°Left  
Degree of Curvature (Arc): 9.549°  
Length: 307.118  
Tangent: 157.002  
Chord: 303.776  
Middle Ordinate: 19.543  
External: 20.201  
Back Tangent Direction: N27.311°E  
Back Radial Direction: S62.689°E  
Chord Direction: N12.648°E  
Ahead Radial Direction: N87.984°E  
Ahead Tangent Direction: N2.016°W

Element: Linear PT ( ) 10652.511 375514.549 1787039.683  
PC ( ) 10784.047 375646.004 1787035.056  
Tangential Direction: N2.016°W  
Tangential Length: 131.536

Element: Circular PC ( ) 10784.047 375646.004 1787035.056  
COMBINATION PI ( ) 10824.834 375686.766 1787033.621  
CC ( ) 375647.763 1787085.025  
PT ( ) 10852.473 375696.360 1787073.263  
Radius: 50.000  
Delta: 78.411°Right  
Degree of Curvature (Arc): 114.592°  
Length: 68.426  
Tangent: 40.787  
Chord: 63.210  
Middle Ordinate: 11.256  
External: 14.526  
Back Tangent Direction: N2.016°W  
Back Radial Direction: N87.984°E  
Chord Direction: N37°.189E  
Ahead Radial Direction: S13.605°E  
Ahead Tangent Direction: N76.395°E

Element: Linear PT ( ) 10852.473 375696.360 1787073.263  
PC ( ) 10963.464 375722.469 1787181.139  
Tangential Direction: N76.395°E  
Tangential Length: 110.991

Element: Circular PC ( ) 10963.464 375722.469 1787181.139  
COMBINATION PI ( ) 10985.628 375727.682 1787202.682  
CC ( ) 375673.872 1787192.901  
PT ( ) 11005.190 375715.221 1787221.011  
Radius: 50.000  
Delta: 47.814°Right  
Degree of Curvature (Arc): 114.592°  
Length: 41.726  
Tangent: 22.164  
Chord: 40.526  
Middle Ordinate: 4.290  
External: 4.692  
Back Tangent Direction: N76.395°E  
Back Radial Direction: S13.605°E  
Chord Direction: S79.698°E  
Ahead Radial Direction: S34.209°E  
Ahead Tangent Direction: N55.791°E

Element: Linear PT ( ) 11005.190 375715.221 1787221.011  
PC ( ) 11032.938 375699.621 1787243.959  
Tangential Direction: S55.794°E  
Tangential Length: 27.748

Ending chain Pr\_DitchBlock2 Description

Beginning chain Pr\_DitchBlock Description

START ( ) 0.000 375241.289 1785410.185

PC ( ) 42.259 375224.109 1785448.794  
Tangential Direction: S66.013°E  
Tangential Length: 42.259

Element: Circular PC ( ) 42.259 375224.109 1785448.794  
COMBINATION PI ( ) 53.392 375219.584 1785458.965  
CC ( ) 375406.837 1785530.101  
PT ( ) 64.501 375216.215 1785469.576  
Radius: 200.000  
Delta: 6.372°Left  
Degree of Curvature (Arc): 28.648  
Length: 22.243  
Tangent: 11.133  
Chord: 22.231  
Middle Ordinate: 0.309  
External: 0.310  
Back Tangent Direction: S66.013°E  
Back Radial Direction: S23.987°W  
Chord Direction: S69.199°E  
Ahead Radial Direction: S17.615°W  
Ahead Tangent Direction: S72.385°E

Element: Linear PT ( ) 64.501 375216.215 1785469.576  
COMBINATION PI ( ) 106.200 375203.596 1785509.319  
Tangential Direction: S72.385°E  
Tangential Length: 41.698

Element: Linear COMBINATION PI ( ) 106.200 375203.596 1785509.319  
COMBINATION PI ( ) 180.429 375179.602 1785579.563  
Tangential Direction: S71.141°E  
Tangential Length: 74.229

Element: Linear COMBINATION PI ( ) 180.429 375179.602 1785579.563  
END ( ) 216.276 375171.084 1785614.384  
Tangential Direction: S76.254°E  
Tangential Length: 35.847

Ending chain Pr\_DitchBlock Description

Survey Data

Wetland Mitigation Bank  
Ward County



12/26/2024







|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 110         | 2         |

| Signage Locations |              |              |
|-------------------|--------------|--------------|
| Description       | Northing     | Easting      |
| Sign 1            | 375831.8031  | 1787212.9796 |
| Sign 2            | 374073.5883  | 1787196.1642 |
| Sign 3            | 374086.1406  | 1785888.3363 |
| Sign 4            | 3374724.7564 | 1785846.2672 |
| Sign 5            | 375190.7459  | 1785429.7593 |
| Sign 6            | 375837.8881  | 1786015.9614 |

Note: See Section 110 sheet 1 for sign details

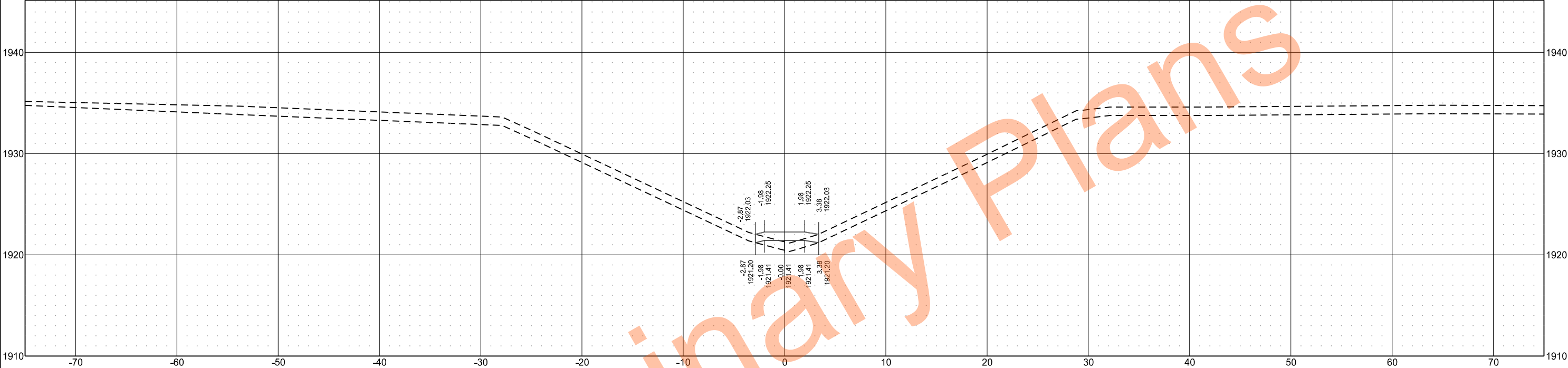
Sign and Post Details  
Phase 1, 2a & 2b

Wetland Mitigation Bank  
Ward County

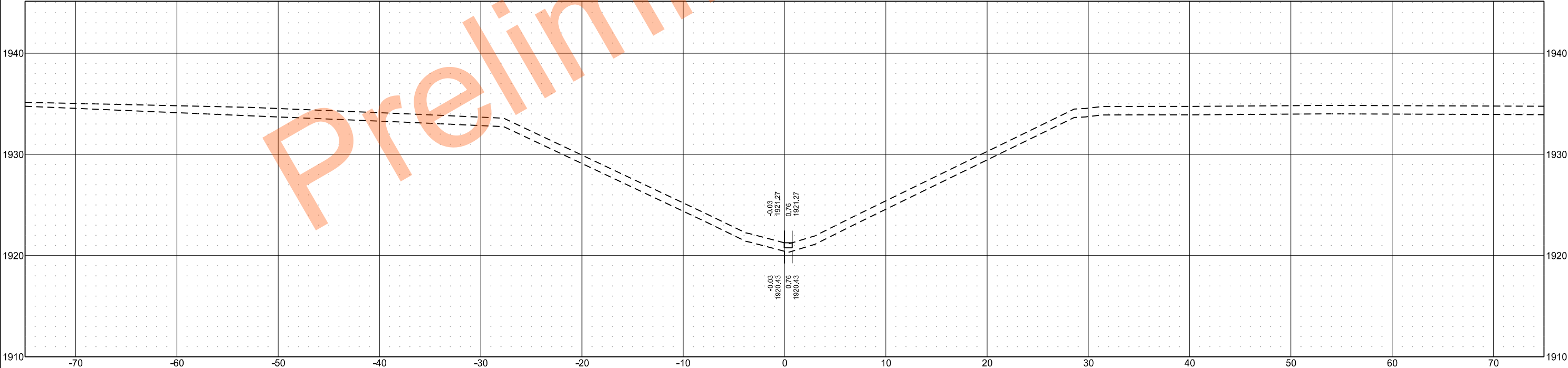
JEFFREY T. LANSINK  
REGISTERED  
PROFESSIONAL  
ENGINEER  
NORTH DAKOTA  
1/3/2025

|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 1         |

Sta 0+70.00

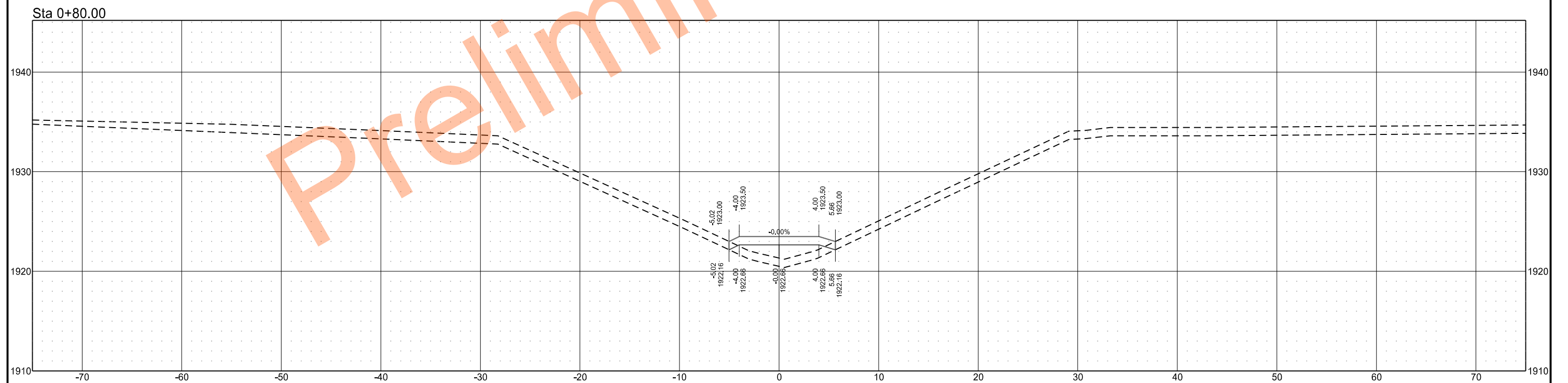


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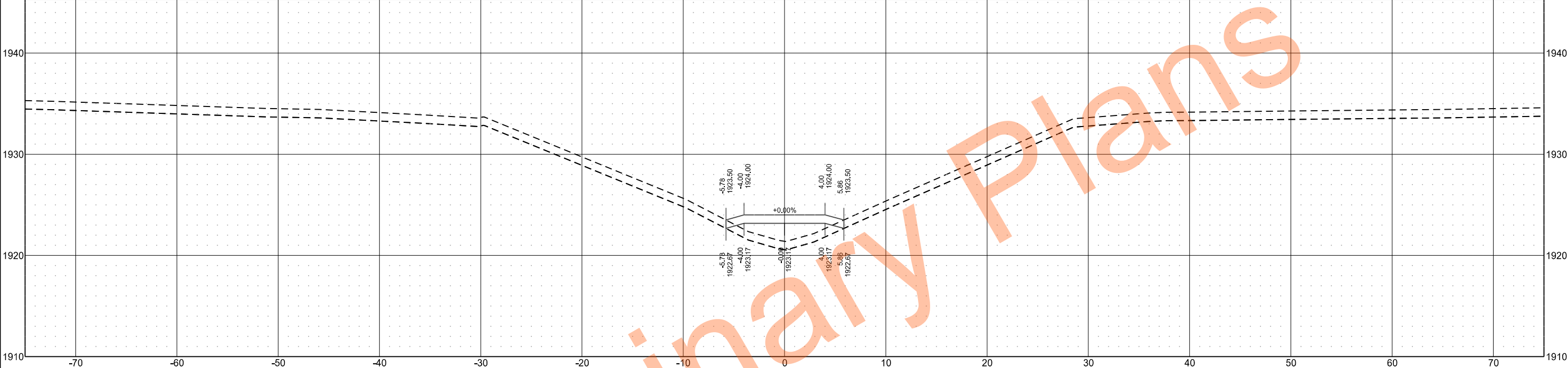
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|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 2         |

|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 2         |

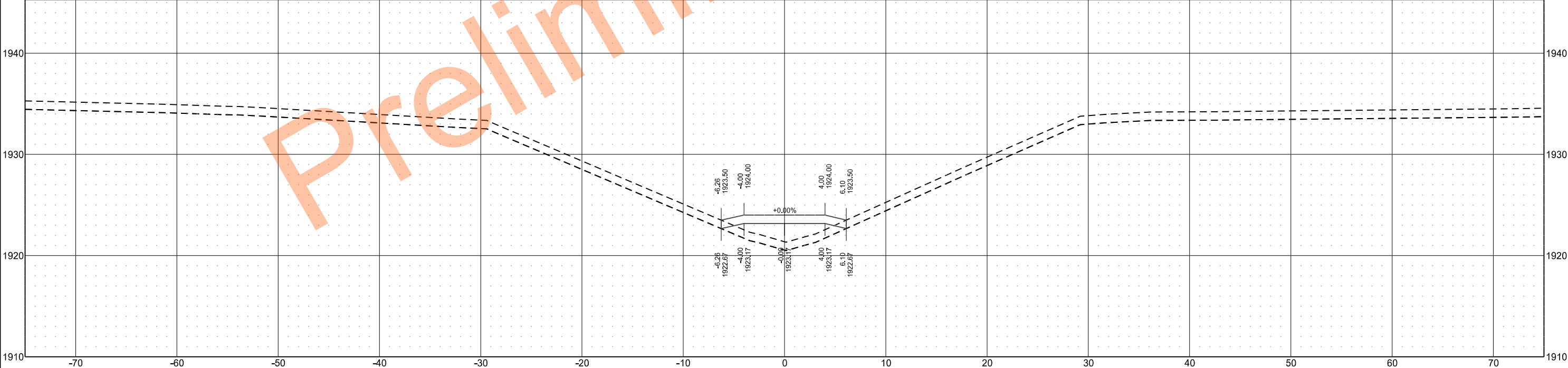


|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 3         |

Sta 1+10.00

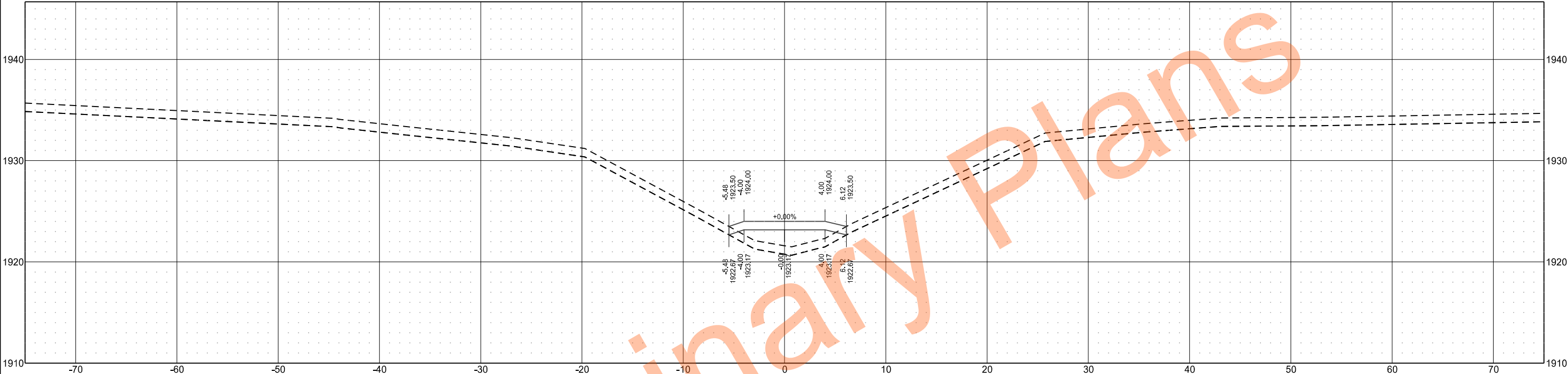


Sta 1+00.00

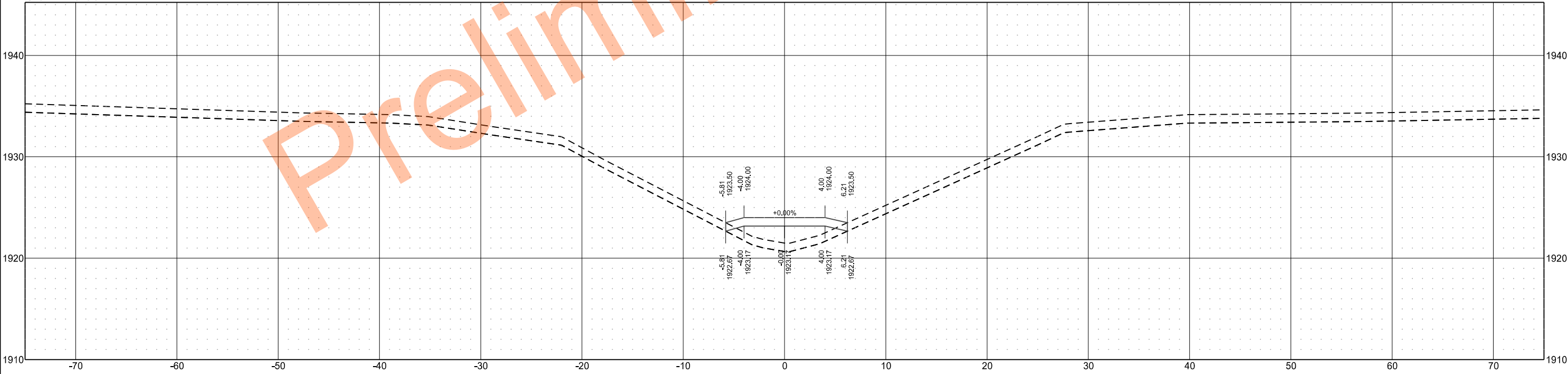


|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 4         |

Sta 1+30.00



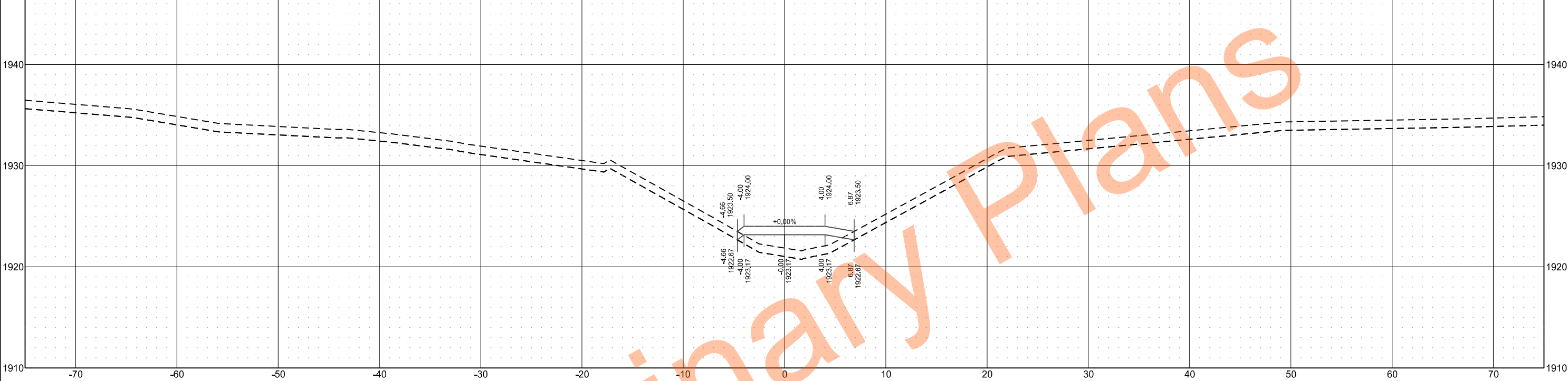
Sta 1+20.00



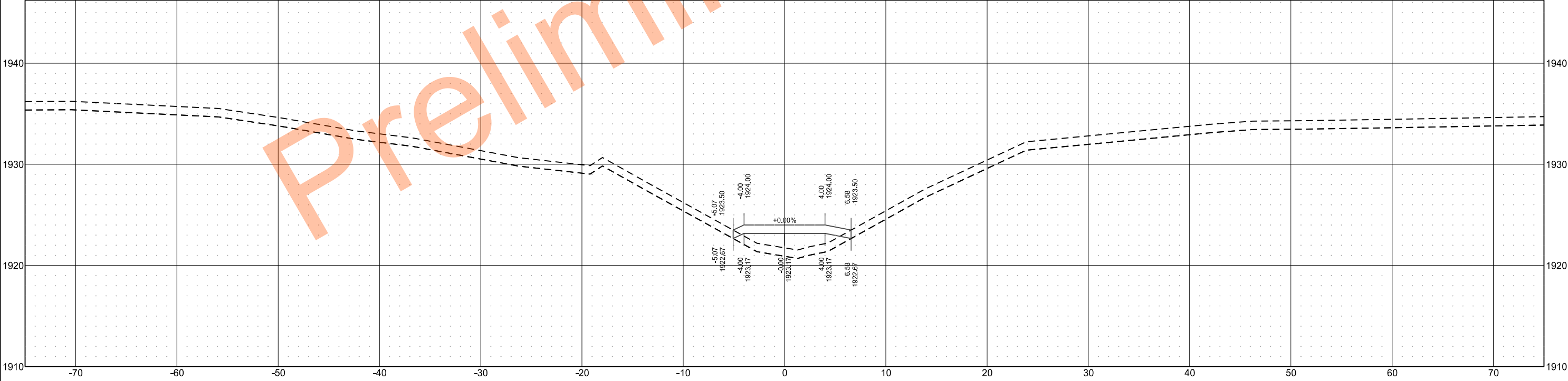


|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 5         |

Sta 1+50.00

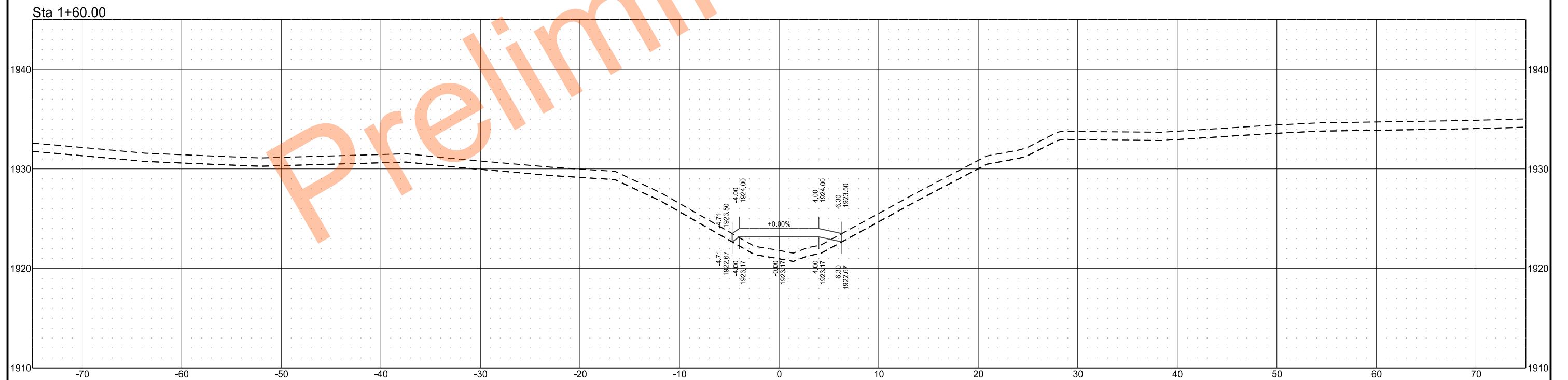


Sta 1+40.00



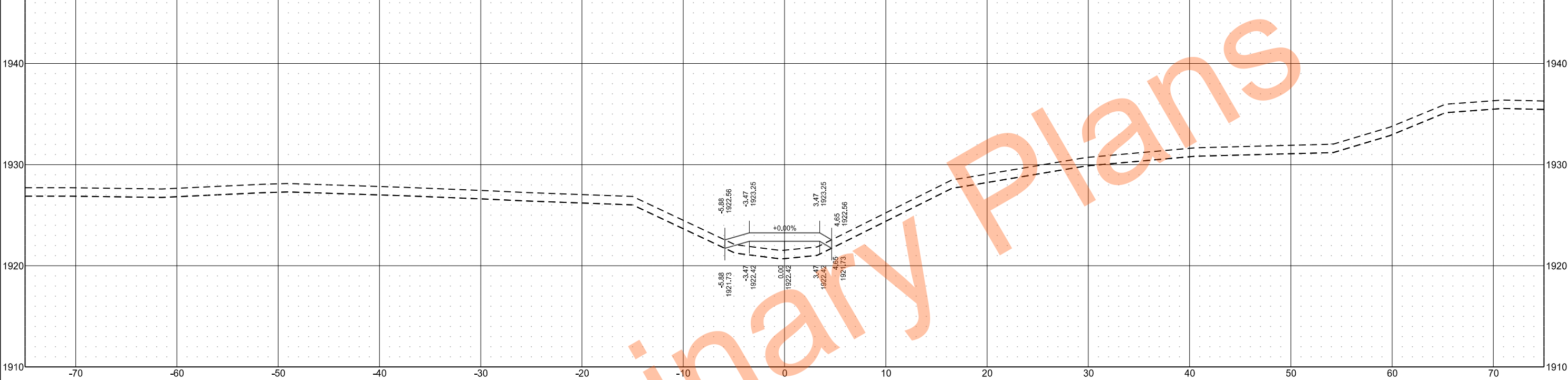
|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 6         |

|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 6         |

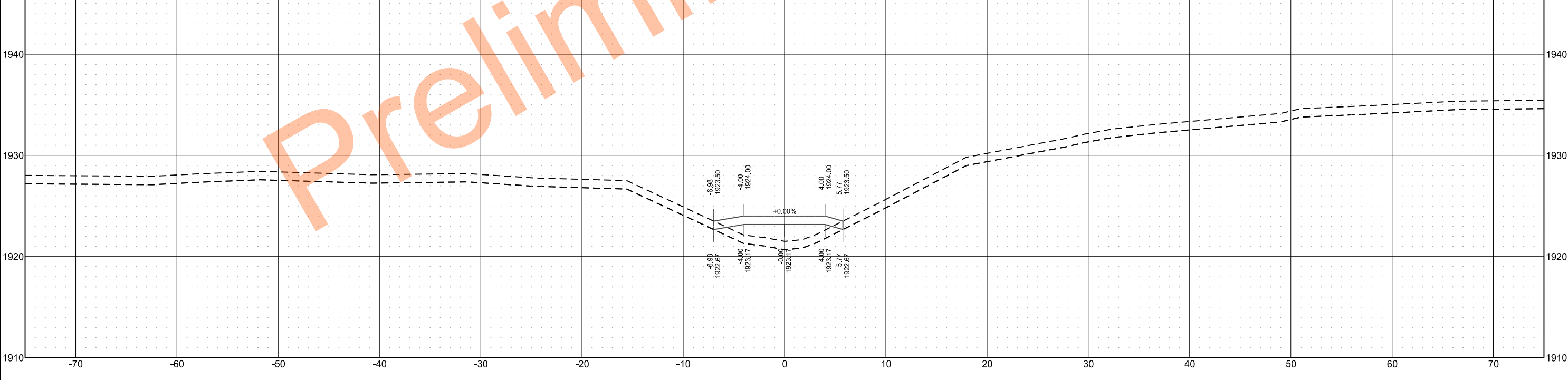


|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 7         |

Sta 1+90.00

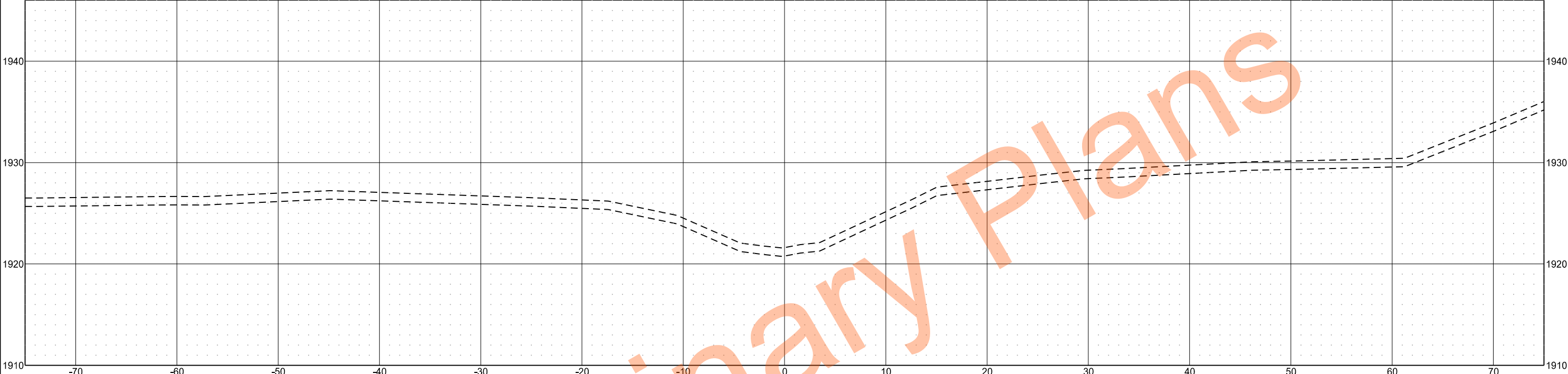


Sta 1+80.00

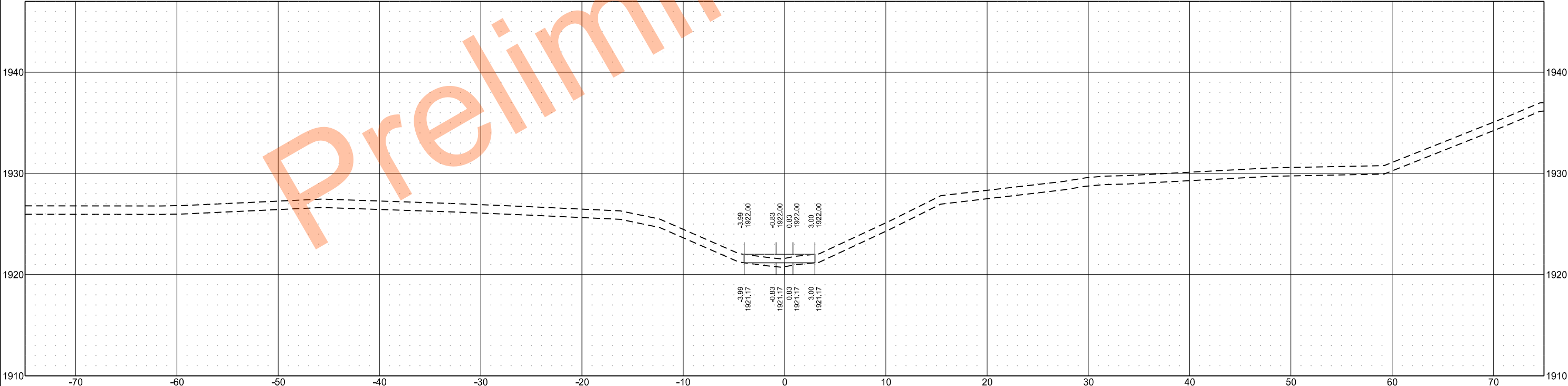


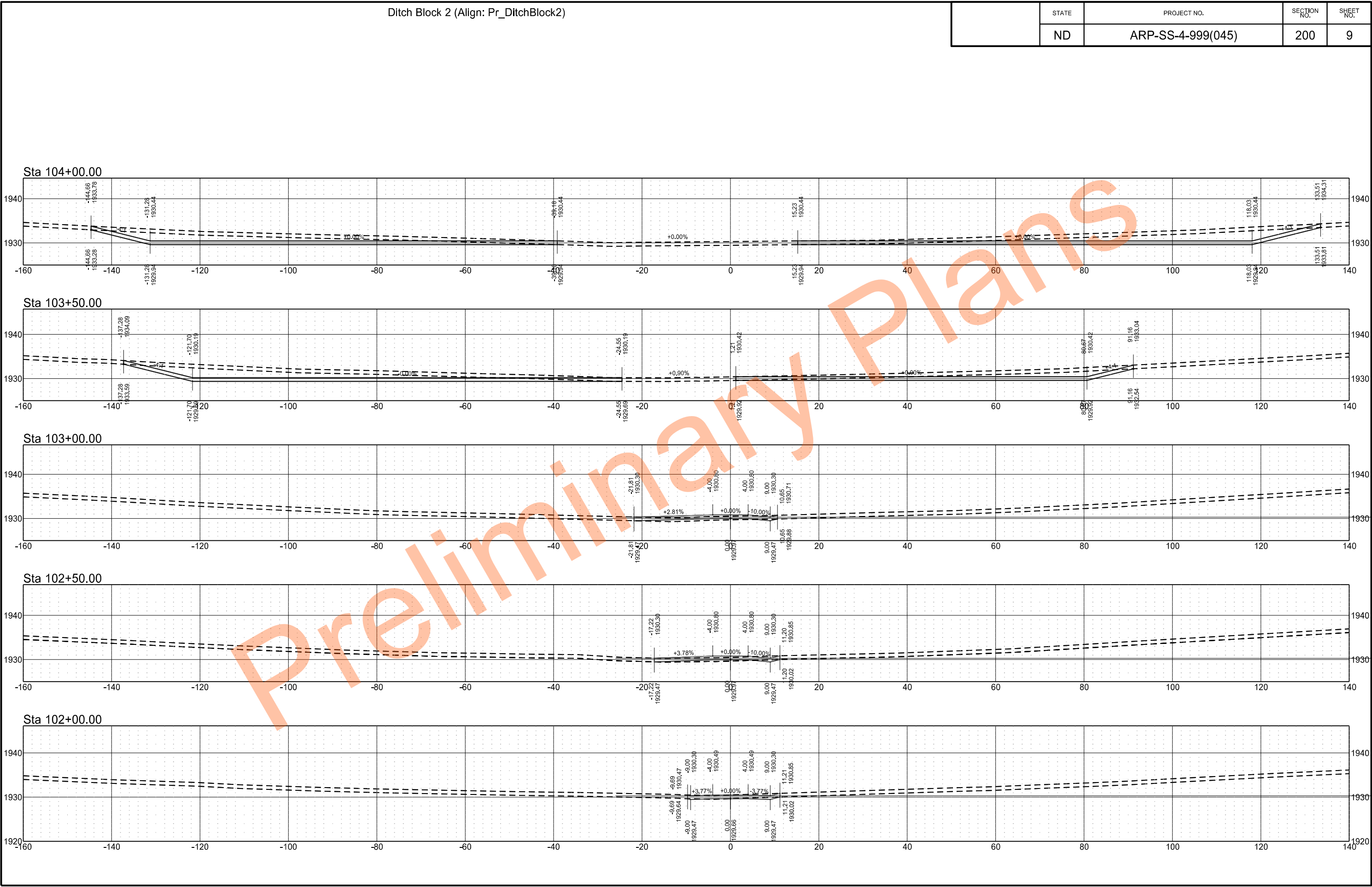
|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 8         |

Sta 2+03.16

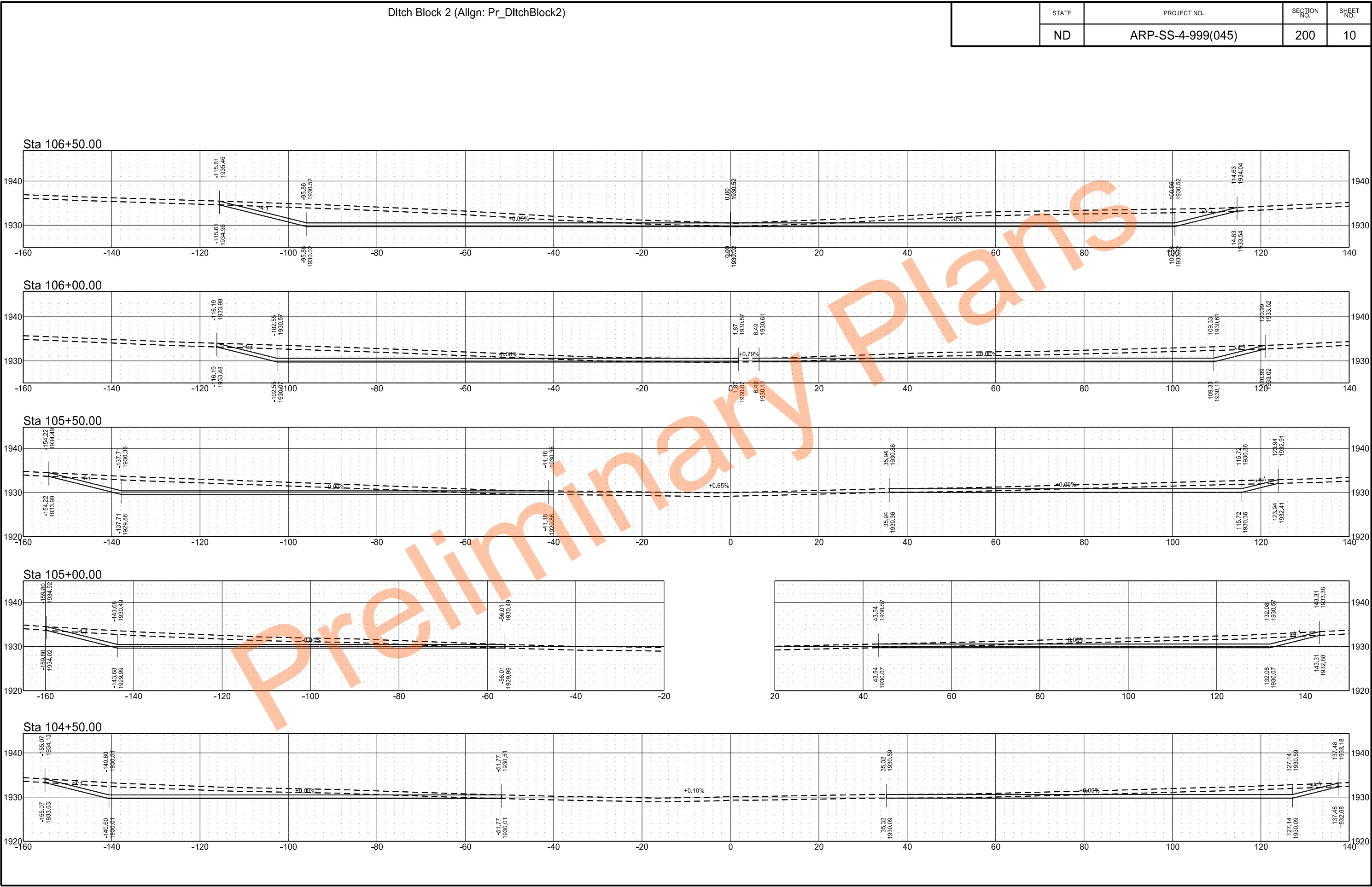


Sta 2+00.00



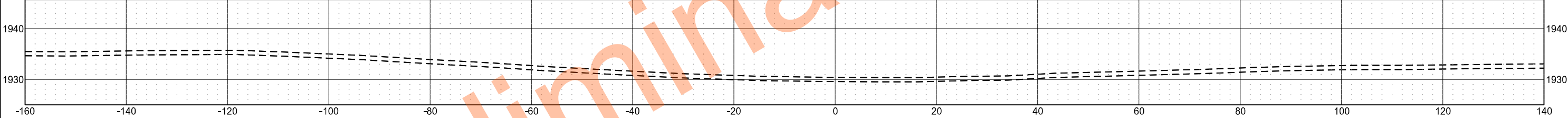




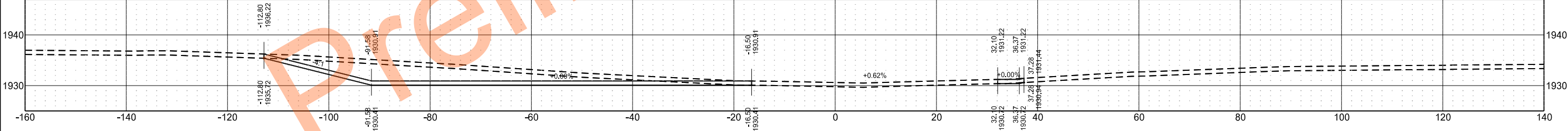


|  |       |                   |             |           |
|--|-------|-------------------|-------------|-----------|
|  | STATE | PROJECT NO.       | SECTION NO. | SHEET NO. |
|  | ND    | ARP-SS-4-999(045) | 200         | 11        |

Sta 107+74.11



Sta 107+50.00



Sta 107+00.00

