

TRANSPORTATION DEVELOPMENT DIVISION

SECONDARY ROAD SYSTEM

BUTLER COUNTY

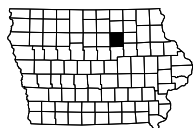
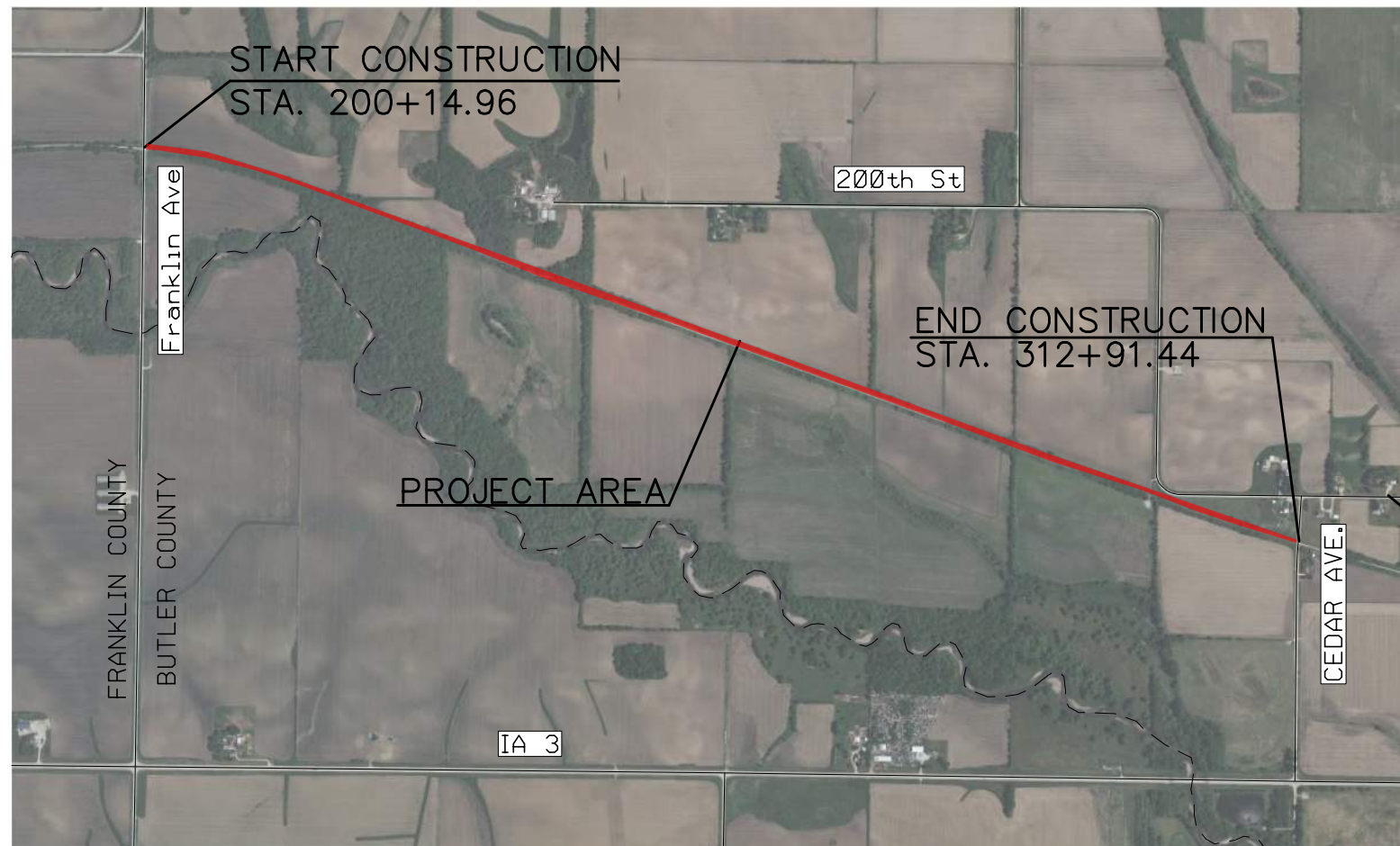
PLANS OF PROPOSED IMPROVEMENT FOR:

TAP-R-C012(136)--8T-12
WORK CODE: 8022 - HMA TRAIL

On Rolling Prairie Trail, From Cedar Ave NW
2.14 Miles to Franklin County Line

Refer to the Proposal Form for list of applicable specifications.

SCALES: As Noted



LOCATION MAP
(NOT TO SCALE)

UTILITY CONTACTS

ONE CALL
1-800-292-8989

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|-----------------------------|
| A.1 | TITLE SHEET |
| B.1-B.2 | TYPICAL SECTIONS |
| C.1-C.5 | QUANTITY TABULATIONS |
| D.1 | GENERAL NOTES |
| D.2-D.10 | PLAN & PROFILE |
| G.1-G.4 | CONTROL AND ALIGNMENT DATA |
| J.1 | TRAFFIC CONTROL INFORMATION |
| S.1-S.2 | SIDEWALK DETAILS |
| T.1-T.2 | EARTHWORK QUANTITIES |
| V.1-V.3 | CULVERT DETAILS |
| W.1-W.42 | CROSS SECITONS |
| TOTAL: | 72 SHEETS |

MILEAGE SUMMARY

| Div. | Location | Lin. Ft. | Miles |
|------|--------------------------------|-----------|-------|
| 1 | STATION 200+14.96 TO 312+91.44 | 11,276.48 | 2.136 |

CITY OF DUMONT

| | | |
|--|---|-----------|
| | I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. | |
| | | 4/22/2026 |
| | Signature STEVEN SCOTT SWEET, P.E. Printed or Typed Name | |
| | My license renewal date is December 31, 2026 | |
| Pages or sheets covered by this seal: A.1, B.1-B.2, C.1-C.5, D.1-D.10, G.1-G.4, J.1, S.1-S.2, T.1-T.2, V.1-V.3, and W.1-W.42 | | |

Approved: Butler County Conservation Board



| REVISIONS | DESCRIPTION | NO. | DATE |
|-----------|-------------|-----|------|
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TITLE SHEET
ROLLING PRAIRIE TRAIL
IMPROVEMENTS

SCALE NONE
PROJECT NO. 9513.00
DRAWN BY: TB
CHECKED BY: SS
SHEET A.1

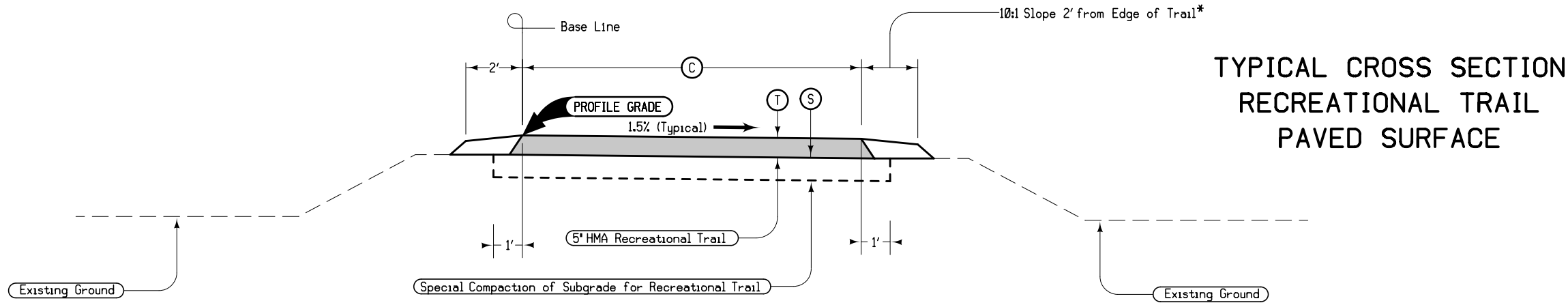
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| | NO. | DATE | DESCRIPTION |
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| TYPICAL SECTIONS | ROLLING PRAIRIE TRAIL IMPROVEMENTS BUTLER COUNTY CONSERVATION BOARD PROJECT# TAP-R-C012(136)---8T-12 |
|------------------|--|

| | |
|-------------|---------|
| SCALE | NONE |
| PROJECT NO. | 9513.00 |
| DRAWN BY: | EF |
| CHECKED BY: | SS |
| SHEET | B.1 |

WHKS-1

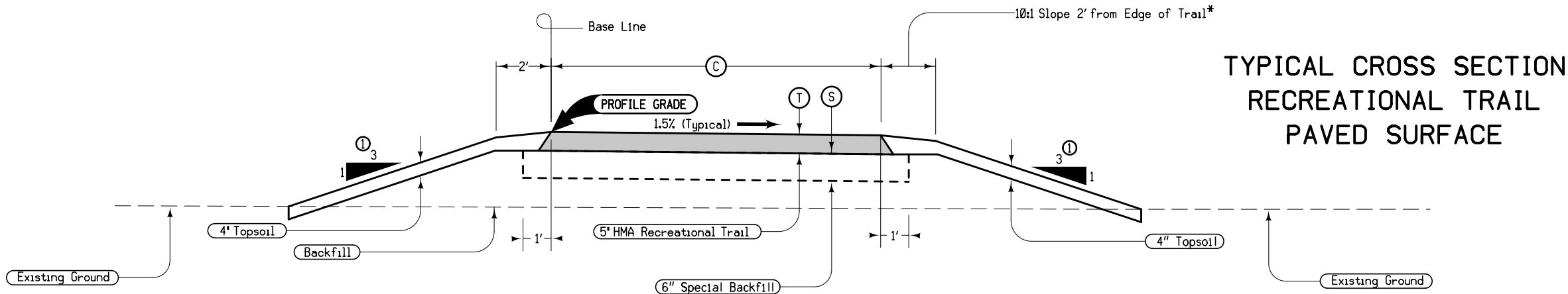


HMA RECREATIONAL TRAIL
TYPICAL SECTION

① Refer to Cross Sections for areas of special grading

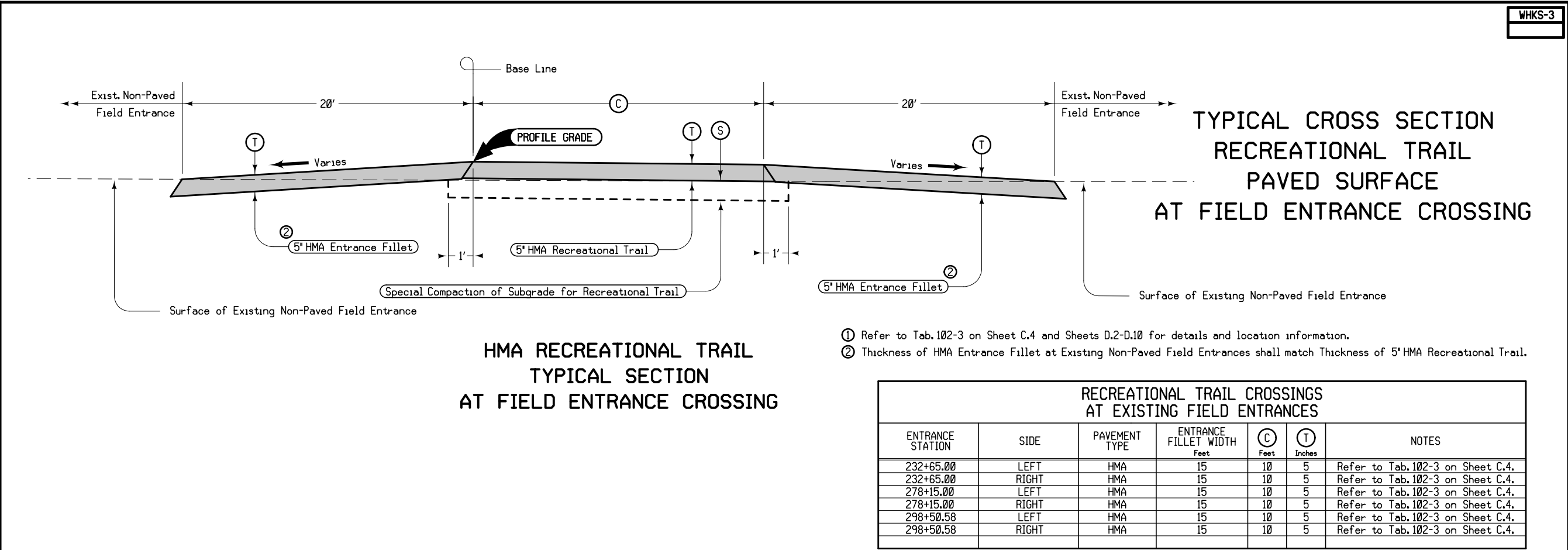
| WHKS-6 RECREATIONAL TRAIL, HOT MIX ASPHALT, 5 IN. | | | | | | |
|--|-----------|---------------|-----------|-------------|-------------|----------------|
| STATION TO STATION | | PAVEMENT TYPE | C Feet | S Inches | T Inches | NOTES |
| 200+26.98 | 207+42.01 | HMA | 10 | 6 | 5 | HMA Rec. Trail |
| 207+63.82 | 218+01.62 | HMA | 10 | 6 | 5 | HMA Rec. Trail |
| 218+26.15 | 242+93.28 | HMA | 10 | 6 | 5 | HMA Rec. Trail |
| 243+29.34 | 312+76.41 | HMA | 10 | 6 | 5 | HMA Rec. Trail |

WHKS-2



HMA RECREATIONAL TRAIL
CULVERT SECTION

| WHKS-7 RECREATIONAL TRAIL, HOT MIX ASPHALT, 5 IN. | | | | | | |
|--|-----------|---------------|-----------|-------------|-------------|----------------|
| STATION TO STATION | | PAVEMENT TYPE | C Feet | S Inches | T Inches | NOTES |
| 207+42.01 | 207+63.82 | HMA | 10 | 6 | 5 | HMA Rec. Trail |
| 218+01.62 | 218+26.15 | HMA | 10 | 6 | 5 | HMA Rec. Trail |
| 242+93.28 | 243+29.34 | HMA | 10 | 6 | 5 | HMA Rec. Trail |



| | | | | | |
|---|---|---|----------------|------------------------|---------------|
| 100-1D 10-18-05 | | | | | |
| PROJECT DESCRIPTION | | | | | |
| This project is for constructing a 10' wide HMA trail along an old railroad bed. Also included in the project is grading, removal of exsiting timber bridge structures, pipe culveters placement, the removal a gravel drive and placement of HMA driveway. | | | | | |
| 100-1A 07-15-97 | | | | | |
| ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT) | | | | | |
| Item No. | Item Code | Item | Unit | Total | As Built Qty. |
| 1 | 2102-0425070 | SPECIAL BACKFILL | TON | 132.22 | |
| 2 | 2102-2710070 | EXCAVATION, CLASS 10, ROADWAY AND BORROW | CY | 1,393 | |
| 3 | 2102-2710090 | EXCAVATION, CLASS 10, WASTE | CY | 1,329 | |
| 4 | 2102-2713090 | EXCAVATION, CLASS 13, WASTE | CY | 20 | |
| 5 | 2105-8425015 | TOPSOIL, STRIP, SALVAGE AND SPREAD | CY | 704 | |
| 6 | 2123-7450000 | SHOULDER CONSTRUCTION, EARTH | STA | 224.99 | |
| 7 | 2303-9093010 | HOT MIX ASPHALT, DRIVEWAY | SY | 199.8 | |
| 8 | 2401-6745650 | REMOVAL OF EXISTING STRUCTURES | LS | 1 | |
| 9 | 2511-0301500 | RECREATIONAL TRAIL, HOT MIX ASPHALT, 5 IN. | SY | 12499.40 | |
| 10 | 2511-0310100 | SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL | STA | 109.34 | |
| 11 | 2511-7526006 | SIDEWALK, P.C. CONCRETE, 6 IN. | SY | 31.0 | |
| 12 | 2511-7528101 | DETECTABLE WARNINGS | SF | 40 | |
| 13 | 2524-6765010 | REMOVE AND REINSTALL SIGN AS PER PLAN | EACH | 3 | |
| 14 | 2524-9276010 | PERFORATED SQUARE STEEL TUBE POSTS | LF | 18.5 | |
| 15 | 2524-9276021 | PERFORATED SQUARE STEEL TUBE POSTS ANCHOR, BREAK-AWAY SOIL INSTALLATION | EACH | 3 | |
| 16 | 2524-9325001 | TYPE A SIGNS, SHEET ALUMINUM | SF | 24 | |
| 17 | 2526-8285020 | CONSTRUCTION SURVEY, CONTROL POINT SURVEY | LS | 1 | |
| 18 | 2526-8285040 | CONSTRUCTION SURVEY, LOCATION SURVEY | LS | 1 | |
| 19 | 2528-8445110 | TRAFFIC CONTROL | LS | 1 | |
| 20 | 2533-4980005 | MOBILIZATION | LS | 1 | |
| 21 | 2601-2634100 | MULCHING | ACRE | 2.07 | |
| 22 | 2601-2642100 | STABILIZING CROP- SEEDING AND FERTILIZING | ACRE | 2.07 | |
| 23 | 2602-0000312 | PERIMETER ABD SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. | LF | 850 | |
| 24 | 2602-0000351 | REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE | LF | 850 | |
| 25 | 2602-0010010 | MOBILIZATIONS, EROSION CONTROL | EACH | 1 | |
| 26 | 2602-0010020 | MOBILIZATIONS, EMERGENCY EROSION CONTROL | EACH | 1 | |
| | | | | | |
| | | | | | |
| 100-4A 10-29-02 | | | | | |
| ESTIMATE REFERENCE INFORMATION | | | | | |
| Item No. | Item Code | Description | | | |
| 1 | 2102-0425070 | SPECIAL BACKFILL This item shall be in accordance with Section 2102 of the Iowa DOT Standard Specifications. Refer to Tab. WHKS-1 for additional information. | | | |
| 2 | 2102-2710070 | EXCAVATION, CLASS 10, ROADWAY AND BORROW | | | |
| 3 | 2102-2710090 | EXCAVATION, CLASS 10, WASTE This item shall be in accordance with Section 2102 of the Iowa DOT Standard Specifications. Refer to T Sheets for additional information. No additional payment will be made if debris (old railroad ties, garbage, etc.) is encountered. Debris must be properly disposed of off-site. All material wasted from the project site shall become the property of the Contractor. Overhaul will not be measured or paid for, but shall be considered incidental to this item. Excess material can be wasted along the trail foreslopes. Wasting of the excess material shall be included in this bid price. No measurement will be made and the Plan Quantity will be paid for. | | | |
| 4 | 2102-2713090 | EXCAVATION, CLASS 13, WASTE This item shall be in accordance with Section 2102 of the Iowa DOT Standard Specifications. Item is for excavating material such as existing gravel surfaces. No measurement will be made and the Plan Quantity will be paid. | | | |
| 5 | 2105-8425015 | TOPSOIL, STRIP, SALVAGE AND SPREAD The quantity includes 20 CY shown on the T Sheets for placing adjacent to the pave only sections. A minimum of 4 inches shall be placed prior to seeding. Topsoil placement is assumed at 40% shrinkage. Refer to the T Sheets for add't information. No measurement will be made and the Plan Quantity will be paid. | | | |
| 6 | 2123-7450000 | SHOULDER CONSTRUCTION, EARTH This item shall be in accordance with Section 2123 of the Iowa DOT Standard Specifications. Item is for finish grading of the topsoil adjacent to trail paving. Refer to Tab. WHKS-1 for additional information. | | | |
| 7 | 2303-9093010 | HOT MIX ASPHALT, DRIVEWAY Certified Plant Inspection is required for this item. MATERIALS: All materials used shall be in accordance with Iowa DOT Standard Specification Section 2303. METHOD OF MEASUREMENT: Per Square Yard of HMA Driveway placed. Driveway thickness shall be 5 inches. BASIS OF PAYMENT: Payment of HMA Driveway is compensation for all Labor and Materials necessary to remove and excavate existing drives, preparation of the base, and the placement of new HMA Driveway. Payment will be at the contract unit price per Square Yard. | | | |
| 8 | 2401-6745650 | REMOVAL OF EXISTING STRUCTURES Three abandoned timber rail structures to be removed. Removal of all Existing Superstructures and Substructures shall be in accordance with Section 2401 of the Standard Specifications. | | | |
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| 111-25 10-18-11 | | | | | |
| INDEX OF TABULATIONS | | | | | |
| Tabulation | Tabulation Title | | | | Sheet No. |
| C Sheets | | | | | |
| 100-1A | ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT0 | | | | C.1 |
| 100-1D | PROJECT DESCRIPTION | | | | C.1 |
| 100-4A | ESTIMATED REFERENCE INFORMATION | | | | C.1 |
| 100-19 | PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES | | | | C.3 |
| 102-3 | ACCESS POINTS AND SAFETY RAMPS | | | | C.4 |
| 103-1 | RECREATION TRAIL | | | | C.4 |
| 105-4 | STANDARD ROAD PLANS | | | | C.3 |
| 110-12L | POLLUTION PREVENTION PLAN | | | | C.2-C.3 |
| 111-25 | INDEX OF TABULATIONS | | | | C.1 |
| 113-1A | SIDEWALKS | | | | C.4 |
| 190-51 | MATERIALS FOR TYPE 'A' SIGNS | | | | C.4 |
| 190-66 | SUMMARY OF TYPE 'A' SIGNS | | | | C.4 |
| 232-3A | EROSION CONTROL (RURAL SEEDING) | | | | C.3 |
| 259-1 | SIGNING NOTES | | | | C.5 |
| 290-01 | SIDEWALK CONSTRAINTS | | | | C.3 |
| | | | | | |
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| FILE NO. | | ENGLISH | DESIGN TEAM | WHKS & Co. | |
| BUTLER | | COUNTY | PROJECT NUMBER | TAP-R-C012(136)--8T-12 | |
| SHEET NUMBER | | C.1 | | | |

| | | | | | | | | |
|---|---------|-------------|---------------------|---------------|----------------|------------------------|--------------|-----|
| 110-12L 10-20-20 | | | 110-12L 10-20-20 | | | | | |
| POLLUTION PREVENTION PLAN | | | | | | | | |
| <p>This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).</p> <p>This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.</p> <p>All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.</p> <p>I. ROLES AND RESPONSIBILITES</p> <p>A. Designer:</p> <ol style="list-style-type: none">1. Prepares Base PPP included in the project plan.2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required. <p>B. Contractor:</p> <ol style="list-style-type: none">1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.8. Submits amended PPP site map according to Section 2602 of the Standard Specifications. <p>C. Subcontractors:</p> <ol style="list-style-type: none">1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.2. Implement good housekeeping practices according to Paragraph III, C, 2. <p>D. RCE/Project Engineer:</p> <ol style="list-style-type: none">1. Is Project Storm Water Manager.2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.6. Is familiar with the Project PPP and storm water site map.7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.8. Is signature authority on Notice of Discontinuation.9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).10. Makes information to determine permit compliance available to the DNR upon their request. <p>E. Inspector:</p> <ol style="list-style-type: none">1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.2. Makes information to determine permit compliance available to the DNR upon their request.3. Conducts joint required inspections of the site with the contractor/subcontractor.4. Completes an inspection report after each inspection.5. Is signature authority on storm water inspection reports. <p>II. PROJECT SITE DESCRIPTION</p> <p>A. This Pollution Prevention Plan (PPP) is for the construction of an HMA Recreational Trail.</p> <p>B. This PPP covers approximately 20.38 acres with an estimated 3.69 acres being disturbed. The portion of the PPP covered by this contract has 3.69 acres disturbed.</p> <p>C. The PPP is located in an area of one (1) soil association (Kenyon-Clyde-Floyd) The estimated weighted average runoff coefficient number for this PPP after completion will be 0.27.</p> <p>D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:</p> <ol style="list-style-type: none">1. Drainage Patterns - Plan and Profile sheets and Situation plans.2. Proposed Slopes - Cross Sections.3. Areas of Soil Disturbance - Construction limits shown on Plan and Profile sheets.4. Location of Structural Controls - Tabulations in C sheets.5. Locations of Non-structural Controls - Tabulations in C sheets.6. Locations of Stabilization Practices - Generally within construction limits shown on Plan and Profile sheets.7. Surface Waters (including wetlands) - Project Location Map and Plan and Profile sheets.8. Locations where Storm Water is Discharged - Plan and Profile sheets. <p>E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion</p> | | | | | | | | |
| POLLUTION PREVENTION PLAN | | | | | | | | |
| <p>control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.</p> <p>F. Runoff from this work will flow into Mason Creek, Willow Creek, and the Winnebago River.</p> <p>III. CONTROLS</p> <p>A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.</p> <p>B. Preserve vegetation in areas not needed for construction.</p> <p>C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.</p> <p>1. EROSION AND SEDIMENT CONTROLS</p> <p>a. Stabilization Practices</p> <ol style="list-style-type: none">1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:<ol style="list-style-type: none">a) Permanently ceased on any portion of the site, orb) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications. <p>b. Structural Practices</p> <ol style="list-style-type: none">1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets. <p>c. Storm Water Management</p> <p>Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.</p> <p>2. OTHER CONTROLS</p> <p>Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.</p> <ol style="list-style-type: none">a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.g. Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.j. Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point. <p>3. APPROVED STATE OR LOCAL PLANS</p> <p>During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.</p> <p>IV. MAINTENANCE PROCEDURES</p> <p>The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including</p> | | | | | | | | |
| FILE NO. | ENGLISH | DESIGN TEAM | WHKS & Co. | BUTLER COUNTY | PROJECT NUMBER | TAP-R-C012(136)--8T-12 | SHEET NUMBER | C.2 |
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110-12L
10-20-20

POLLUTION PREVENTION PLAN

cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:

1. Date of the inspection.

2. Summary of the scope of the inspection.

3. Name and qualifications of the personnel making the inspection.

5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.

6. Major observations related to the implementation of the PPP.

7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section IIII of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.

B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.

C. Fieldbook Entries – This contains the inspector’s daily diary and bid item postings.

D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).

E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Steven Scott Sweet

Printed or Typed Name

Signature

Matt Wilken

Printed or Typed Name

232-3A
MODIFIED

EROSION CONTROL
(RURAL SEEDING)

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

290-01
04-15-14

SIDEWALK CONSTRAINTS

1. Widths:
Widths listed in the S sheets are minimums.

2. Cross Slopes:
Construct all sidewalks, curb ramps, and landings/turning spaces at a target cross slope of 1.5%. Cross slopes exceeding 2.0% will not be allowed, except for areas tying into existing pavement. In these areas, transition from existing pavement cross slope to a cross slope of less than 2.0% within one panel at a rate not to exceed 1.0% per foot.

3. Longitudinal Slopes:

a. Sidewalk:

i. Roadway slope exceeds 5.0%: Sidewalk longitudinal slope exceeding the roadway slope by more than 2.0% will not be allowed.

ii. Roadway slope 5.0% or less: Sidewalk longitudinal slope exceeding 5.0% will not be allowed.

b. Ramps:

i. Ramps 15.0’ in length or less: Longitudinal slope exceeding 8.3% will not be allowed.

ii. Ramps greater than 15.0’ in length: Construct with the longitudinal slope necessary to conform to the design.

4. Landing/Turning Spaces:
Longitudinal slopes exceeding 2.0% will not be allowed.

| | | |
|---|----------|---|
| 105-4 10-18-11 | | |
| STANDARD ROAD PLANS | | |
| The following Standard Road Plans apply to construction work on this project. | | |
| Number | Date | Title |
| DR-101 | 04-18-17 | PIPE CULVERT (BEDDING AND BACKFILL) |
| DR-102 | 04-21-15 | PIPE CULVERT (COVER AND CAMBER) |
| DR-103 | 04-21-15 | PIPE CULVERT (INSTALLATION DETAILS) |
| DR-104 | 04-19-16 | DEPTH OF COVER TABLES FOR CONCRETE AND CORRUGATED PIPE |
| DR-121 | 04-18-23 | CONNECTED PIPE JOINTS |
| DR-201 | 10-17-23 | CONCRETE APRONS |
| DR-601 | 04-18-17 | REINFORCED CONCRETE PIPE CULVERT |
| EC-204 | 10-19-21 | PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES |
| MI-220 | 04-15-25 | DETECTABLE WARNINGS AND PEDESTRIAN RAMP |
| PV-101 | 10-20-26 | JOINTS |
| SI-101 | 04-19-16 | LOCATIONS - TYPE 'A' SIGNS |
| SI-131 | 10-18-16 | INSTALLATION - TYPE 'A' SIGNS |
| TC-1 | 10-15-19 | WORK NOT AFFECTING TRAFFIC (TWO-LANE OR MULTI-LANE) |
| TC-202 | 04-18-23 | WORK WITHIN 15 FT OF TRAVELED WAY |
| | | |
| | | |

| | | | | | | | |
|---|-------------|------|------------------------|-------------|-------------|------------------------|--|
| 100-19 Modified | | | | | | | |
| PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES | | | | | | | |
| Possible Standards: EC-204 | | | | | | | |
| Location | | | Perimeter and Slope | | | Ditch Check | |
| Begin Station | End Station | Side | Length of Installation | | | Length of Installation | |
| | | | 9 inch Dia | 12 inch Dia | 20 inch Dia | 12 inch Dia | 20 inch Dia |
| | | | LF | LF | LF | LF | LF |
| 207+02.67 | 207+28.91 | L | | 50 | | | |
| 207+02.67 | 207+28.91 | R | | 50 | | | |
| 207+73.80 | 208+03.20 | L | | 50 | | | |
| 207+73.80 | 208+03.20 | R | | 50 | | | |
| 217+60.66 | 217+83.94 | L | | 60 | | | |
| 217+60.66 | 217+83.94 | R | | 60 | | | |
| 218+23.60 | 218+60.39 | L | | 60 | | | |
| 218+23.60 | 218+60.39 | R | | 60 | | | |
| 242+57.60 | 242+84.13 | L | | 60 | | | |
| 242+57.60 | 242+84.13 | R | | 50 | | | |
| 243+32.83 | 243+71.58 | L | | 50 | | | |
| 243+32.83 | 243+71.58 | R | | 50 | | | |
| | | | | 200 | | | 200 LF to be used per The Engineers Discretion |
| | | | | 850 | | | TOTAL |

FILE NO.

ENGLISH

DESIGN TEAM WHKS & Co.

BUTLER COUNTY

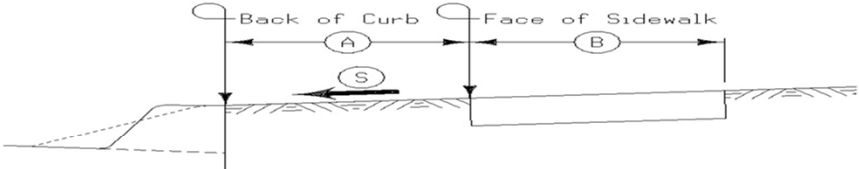
PROJECT NUMBER TAP-R-C012(136)--8T-12

SHEET NUMBER C.3

113-1A
04-16-19

SIDEWALKS

See MI-220 and S Sheets



| Road Identification | Station to Station | | Side | <div>A</div> | <div>B</div> | <div>S</div> | 4" PCC Sidewalk | 6" PCC Sidewalk | 8" PCC Sidewalk | 10" PCC Sidewalk | Detectable Warnings | Remarks |
|---------------------|--------------------|-----------|------|--------------|--------------|--------------|--------------------|--------------------|--------------------|---------------------|------------------------|---------|
| | | | | FT | FT | % | SY | SY | SY | SY | SF | |
| Franklin Ave. | 200+14.98 | 200+26.98 | R | | | | | 13.3 | | | 20 | |
| Cedar Ave. | 312+76.41 | 312+93.32 | R | | | | | 17.7 | | | 20 | |
| | | | | | | | | 31.0 | | | 40 | TOTAL |
| | | | | | | | | | | | | |

WHKS-1

RECREATIONAL TRAIL

| Location | | Length | Width | 5" HMA Trail | Special Backfill | Earth Shoulder Construction | Remarks |
|--------------------|-----------|---------|-------|--------------|------------------|-----------------------------|---------|
| Station to Station | | | | | | | |
| | | FT | FT | SY | TON | STA | |
| 200+26.98 | 312+76.41 | 11249.4 | 10.0 | 12499.4 | 132.22 | 224.99 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

190-66
10-21-14

SUMMARY OF TYPE 'A' SIGNS

| Sign Number | Quantity | Size | Total Sign Area |
|-------------|----------|--------------|-----------------|
| | EACH | IN | SF |
| R1-2 | 2 | 24 X 24 X 24 | 16.0 |
| R5-3 | 1 | 24 X 24 | 8.0 |
| TOTAL | | | 24.0 |
| | | | |
| | | | |

190-51
10-15-13

MATERIALS FOR TYPE 'A' SIGNS

| TYPE A SIGNING TYPICALS | SIGN NUMBER | DIR OF TRAVEL | SIGN LOCATION | WOOD POSTS | | PERFORATED SQUARE STEEL TUBE | | | | | | Steel Rect. Tube | | | TYPE A SIGN MOUNTING BRACKETS | | | | | | INSTALLATION | | | REMARKS | |
|----------------------------|-------------|------------------|---------------|-----------------|-------|------------------------------|-------------|-------------|-------------|--------|----------|------------------|-----------------|----------------------|-------------------------------|---------------------|----------|-----------|---|---|--------------|------|------------|---------|----------------------|
| | | | | NO. OF POSTS | 4 x 6 | | LEG 1 FT | LEG 2 FT | LEG 3 FT | ANCHOR | | | NO. OF POSTS | POST LENGTH FT | ANCHORS EACH | ONE POST BRACKET | TWO POST | AUXILIARY | H | F | F1 | TYPE | DIM 'X' FT | | SEE SIGNING NOTES |
| | | | LEG 1 | | LEG 2 | CONC | | | | SOIL | SLIPBASE | | | | | | | | | | | | | | |
| | | | STATION | | | | | | | | | | | | | | | | | | | | | | |
| | R5-3 | Rt. | 200+19.43 | | | | 6.5 | | | | 1 | | | | | | | | | | | 1 | 3.5 | IA, PP | |
| | R1-2 | Lt. | 200+22.00 | | | | 6 | | | | 1 | | | | | | | | | | | 1 | 3.5 | IA, PP | |
| | R1-2 | Rt. | 312+82.17 | | | | 6 | | | | 1 | | | | | | | | | | | 1 | 3.5 | IA, PP | |
| | | | | | | | 18.5 | | | | 3 | | | | | | | | | | | | | | TOTALS |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

102-3

10-16-18

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.

1

Refer to MI-210

2

Refer to EW-501.

3

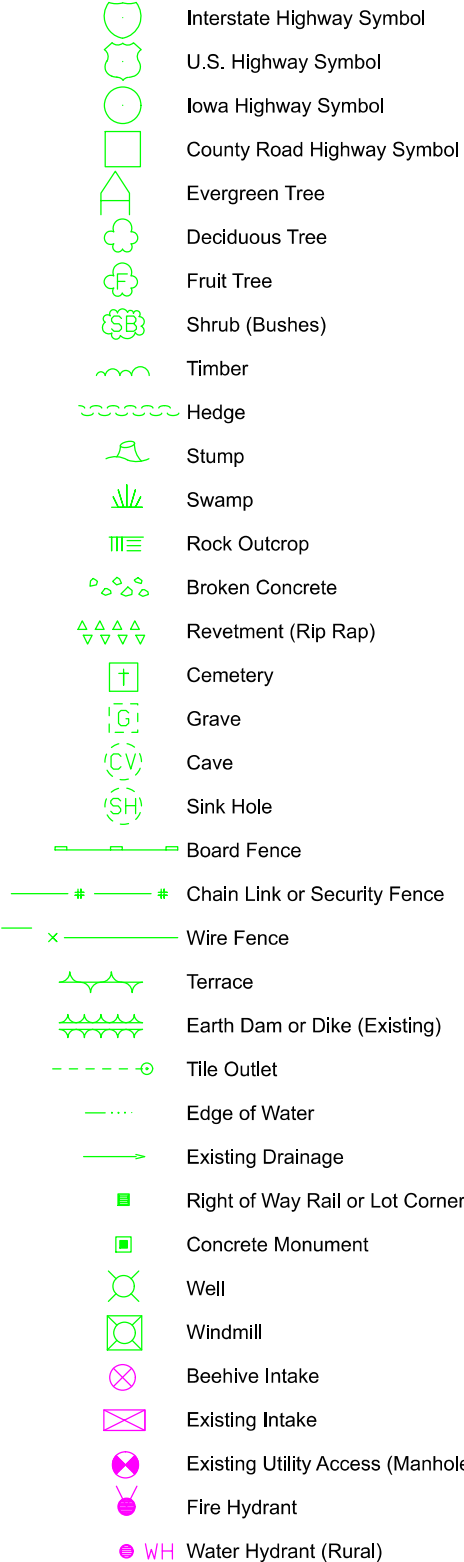
Refer to EW-501 or EW-502.

*Predetermined for access point not constructed with this project.

| Location | | Type | Length of Opening ① | | | W | ① PR | ② SR | Pipe Culvert ③ | | | | | Aprons | Driveway Surface Area | | Driveway Surfacing Material | Remarks | |
|-----------|------|---|---------------------|------------------|-----------------|------|---------|---------|----------------|------|-------------|-----|-----|--------|-----------------------|-------|-----------------------------|---------|----------------|
| Station | Side | A, B, C, Safety Ramp, or Predetermined* | Case | 1½" Dropped Curb | 3" Dropped Curb | | | | H | Size | Pipe Length | Lt. | Rt. | | HMA | PCC | | | |
| | | | | | | | | | | | | | | | | | | | 1 or 2 |
| 232+65.00 | Lt. | D | | | | 15.0 | | | | | | | | | | 33.3 | | | |
| 232+65.00 | Rt. | D | | | | 15.0 | | | | | | | | | | 33.3 | | | |
| 278+15.00 | Lt. | D | | | | 15.0 | | | | | | | | | | 33.3 | | | |
| 278+15.00 | Rt. | D | | | | 15.0 | | | | | | | | | | 33.3 | | | |
| 298+50.58 | Lt. | D | | | | 15.0 | | | | | | | | | | 33.3 | | | |
| 298+50.58 | Rt. | D | | | | 15.0 | | | | | | | | | | 33.3 | | | |
| | | | | | | | | | | | | | | | | 199.8 | | | BID ITEM TOTAL |
| | | | | | | | | | | | | | | | | | | | |



















| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|--------------------|------------|--|----------------|---------------------|------------------------|-------------|----------------|----------------|----------|----------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <div>259-1 10-15-13</div> <div>SIGNING NOTES</div> <div>The following tolerances will be allowed on all signs: Accumulation error of not greater than +/-0.50" per line of copy, not greater than +/-0.50" for spacing between lines of copy, and the margin between lines of copy and the inside edge of the sign border. The following tolerances will be allowed on each letter or numeral: <table><tr><td>nominal height</td><td>variation in height</td><td>variation in width</td></tr><tr><td>4" thru 12"</td><td>-1/8" to +3/8"</td><td>-1/4" to +1/4"</td></tr><tr><td>over 12"</td><td>-1/8" to +3/8"</td><td>-3/8" to +3/8"</td></tr></table> ----- Type B signs can be separated into two categories: - Major Guide Signs. - Minor Guide Signs. Major Guide Signs include the advance and exit direction guide signs for an interchange or intersection. Minor Guide Signs include all other guide signs such as NEXT EXIT signs, supplemental guide signs, logo signs, exit gore signs, post-interchange mileage signs, ramp destination signs, and ramp logo signs for an interchange, as well as destination signs along sideroads. Type A signs are not separated into categories, but special consideration should be given to regulatory signs. Do not remove Type B signs until replacement signs have been installed. If construction activities require the removal of a sign, the existing sign may be relocated to temporary posts, or a temporary plywood sign may be installed to replace the existing sign. Existing non-regulatory Type A signs are NOT required to remain in place until installation of replacement signs. Existing regulatory Type A signs, particularly Stop signs, should not be removed until replacement signs are installed. This guideline may not apply if the traffic control plans have sufficient temporary signing. Apply the following during the replacement or modification of signs: - No more than one of the major guide signs for each direction of travel at an interchange out of service at any one time. - No major guide sign out of service for more than 8 hours. - No minor guide out of service for more than 24 hours. Remove existing signs and posts within 24 hours following the installation of a new replacement sign. In any case where the plans call for a new sign and posts to be installed at the same station location and offset as an existing sign, install the new posts at a minimum of either 5 ft ahead or behind the existing sign installation. Whenever posts for a replacement sign are erected directly in front of an existing sign, install the new replacement sign and remove the existing sign installation within 24 hours of the time that the new posts are erected. Where signs are located behind guardrail, locate the near edge of the sign a minimum of 3 ft behind the guardrail posts. The Engineer may approve reducing this distance to a minimum of 1 ft where field conditions warrant. Unless noted otherwise, leave auxiliary panels, such as exit number panels, in place or reattach to the sign using the existing mounting hardware. Also, when replacing an existing logo sign with a new logo sign, remove the business logo panel(s) from the existing sign and attach to the new sign as directed by the Engineer. Do not damage the auxiliary or logo panels when removing and reattaching them. This work is incidental to other work and no separate payment will be made.</div> | | | | | nominal height | variation in height | variation in width | 4" thru 12" | -1/8" to +3/8" | -1/4" to +1/4" | over 12" | -1/8" to +3/8" | -3/8" to +3/8" | <div>259-1 10-15-13</div> <div>SIGNING NOTES</div> <div>The following notes apply to the corresponding sign installations shown on the plan sheets and listed in the tabulations. IB INSTALL NEW TYPE B SIGN IA INSTALL NEW TYPE A SIGN Install new signs at the location identified in the plans. For installation of new signs on existing posts: - if the new sign is taller than the existing sign, furnish the necessary hardware to extend the sign above the posts. Refer to Standard Road Plan SI-132. - if the new sign is shorter that the existing sign: - for wood posts and perforated square tube posts, install the sign at the proper height and cut off the excess post length. - for steel posts, install the sign at the top of the posts. For installation of new signs on an existing sign support structure, refer to note (L). Payment for installing Type A signs or Type B signs includes furnishing hardware for mounting, extending signs above existing posts, and cutting off wood posts. MS MODIFY EXISTING SIGN Modify the copy on the existing sign as shown in the plans. Deliver existing copy which is removed to a DOT storage area within 50 mi, as designated by the Engineer. Install the new copy as needed to make sign modifications. Payment for Modification of Existing Sign includes removal of existing copy and installation of new copy. MB INSTALL SPECIAL MOUNTING BRACKET Install special mounting brackets at the locations identified in the plans. Refer to Tabulations 190-10, 190-51, and/or 190-65. PW INSTALL NEW WOOD POSTS PB INSTALL NEW BREAKAWAY STEEL POSTS AND FOOTING PP INSTALL NEW PERFORATED SQUARE TUBE POSTS AND ANCHORS Install new wood posts, breakaway steel posts and footings, or perforated square tube posts and anchors at the locations indicated in the plans. Refer to Tabulations 190-51 and 190-50 for post size and footing information. If note (RR) accompanies (PW), (PB), or (PP), install an existing sign on the new posts. RR REMOVE AND REINSTALL SIGN: Do not remove existing major Type B guide signs on posts until the new posts are installed. Promptly remove sign and install at the new location. Existing major Type B guide signs on overhead support structures, minor Type B guide signs, plywood signs, and Type A signs may be removed and stored. Transport the signs to a DOT storage area within 50 mi, as designated by the Engineer. Transport the signs back to the job site when ready for installation at the new location. Replace signs damaged by the Contractor's activities at no additional cost to the Contracting Authority. Payment for Remove and Reinstall Sign includes sign removal, delivery to the DOT storage area (if applicable), and reinstallation. RA REMOVE TYPE A SIGN ASSEMBLY RB REMOVE TYPE B SIGN ASSEMBLY Type A Sign Assembly consists of one or more signs installed on one or more wood posts, either directly mounted to the post or mounted to the post with special sign mounting brackets.</div> | | | | | <div>259-1 10-15-13</div> <div>SIGNING NOTES</div> <div>Type B Sign Assembly consists of the main sign, all auxiliary signs and brackets, and the wood or steel posts. Unless stated otherwise in the plans, remove all posts with the signs and brackets. Remove each sign assembly identified in the plans. Sign posts removed become the property of the Contractor. All other materials removed remain the property of the DOT. Disassemble each sign assembly removed before delivering to the DOT. For Type A sign assemblies, unbolt all signs, special mounting brackets, and posts from each other. For Type B assemblies, unbolt all extruded aluminum panels, brackets, and posts from each other. Do not damage the disassembled materials. Place backfill in holes remaining from the removal of wood posts and restore to the normal surrounding conditions. Deliver the removed signs, special sign mounting brackets, and extruded aluminum panels to a DOT storage area within 50 mi, as designated by the Engineer. The concrete footings for steel posts are not considered part of the sign assembly. Refer to note RF for concrete footing removal. Payment for Removal of Type A Sign Assembly or Removal of Type B Sign Assembly includes sign assembly removal and disassembly, post removal (if applicable), delivery to the DOT storage area, placing backfill in holes, and restoration of the surrounding conditions. RF REMOVE EXISTING CONCRETE FOOTING FOR STEEL POST Remove existing concrete footings to a depth of 1 ft below ground. Place backfill in holes remaining from removal and restore to the normal surrounding conditions. This work is incidental to other work and no separate payment will be made. RS REMOVE EXISTING TYPE B SIGN SUPPORT STRUCTURE The following are considered Type B Sign Support Structures: - Overhead sign truss and foundation, - Cantilevered sign truss and foundation, or - Bridge mounted brackets. For removal purposes, wood and steel post are not considered Type B Support Structures. Unless stated otherwise in the plans, existing overhead trusses, cantilevered trusses, and bridge brackets which are removed become the property of the Contractor. If stated in the plans, deliver overhead trusses, cantilevered trusses, and bridge brackets to a DOT storage area within 50 mi, as designated by the Engineer. Payment for Removal of Sign Support Structure and Foundation includes sign support structure removal, delivery to the DOT storage area (if applicable), and restoration of the surrounding conditions. L MODIFTY SIGN SUPPORT ANGLES NEEDED TO INSTALL SIGNS ON EXISTING SIGN SUPPORTS STRUCTURES Refer to the sign support structure details for information on the required angle brackets. Provided all specifications are met, the existing sign support angles may be reused. Install existing sign support angles to be reused only on the sign support structure from which they were removed. Sign support angles removed and not reused become the property of the Contractor. When reusing the existing sign support angles with a shorter replacement sign, the sign support angles may need to be trimmed. Refer to the sign support details to determine if and where to trim the sign support angles. Do not use existing fasteners. Use new stainless steel bolts and nuts to install the existing or new sign support angles to the sign support structure.</div> | | | | | <div>259-1 10-15-13</div> <div>SIGNING NOTES</div> <div>Removal of existing sign support angles is incidental to removal of the sign. Reinstalling and/or modifying existing sign support angles; furnishing and installing new sign support angles (if required); and furnishing and installing new fasteners is incidental to work associated with Type B signs. SIGN INSTALLATION QUALITY CONTROL NOTES Post lengths have been derived from the proposed grading cross sections. Field verify post lengths. Slight differences between the design template and the actual conditions should be expected. These variations should be resolved by doing some localized shaping and grading. Obtain material needed to meet the site requirements of SI-113 from the footing excavation and/or the area immediately adjacent to the footing. Ensure reshaping work does not substantially change foreslopes or the drainage in the vicinity of the sign. Significant differences between the design template and the actual field conditions need to be resolved in this manner: Survey the location and draw the actual template on the cross section. Recalculate each post length and compare to the maximum allowable leg length. If all of the maximum leg lengths are less than or equal to the maximum allowable leg length, then the proposed post design will be sufficient. If any leg is greater than the maximum allowable leg length, then submit the cross section with the actual template drawn (including offsets and elevation from the survey shown) to the Engineer. The Engineer may forward this information on to the design Engineer in order to complete a new post design. Install the footings, stub posts, and posts according to the following tolerances: -elevation difference from the edge of pavement to the bottom of the sign within 6 inches of the dimension shown. -elevation difference of less than 2 inches between the top of the highest post and the lowest post at a site. Footing construction is the controlling activity that substantially affects the quality of the site installation. Verify the elevation difference between the stubs is exactly the same as the elevation difference between the post lengths. If the Engineer requests, submit documentation detailing the site field shots in order to verify site installation.</div> | | | | |
| nominal height | variation in height | variation in width | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4" thru 12" | -1/8" to +3/8" | -1/4" to +1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| over 12" | -1/8" to +3/8" | -3/8" to +3/8" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FILE NO. | ENGLISH | DESIGN TEAM | WHKS & Co. | | BUTLER COUNTY | PROJECT NUMBER | TAP-R-C012(136)--8T-12 | | SHEET NUMBER | C.5 | | | | | | | | | | | | | | | | | | |

SURVEY SYMBOLS









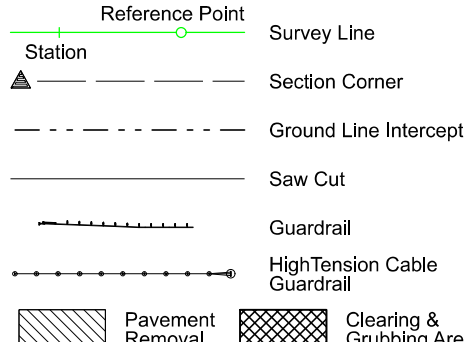
UTILITY LEGEND

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS









| LINEWORK | | Design Color No. |
|---------------|-------|--|
| Green | (2) |  Existing Topographic Features and Labels |
| Blue | (1) |  Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation |
| Magenta | (5) |  Existing Utilities |
| SHADING | | Design Color No. |
| Gray, Light | (48) |  Proposed Pavement Shading |
| Lavender | (9) |  Temporary Pavement Shading |
| Red | (3) |  Proposed Structure Shading |
| Orange | (6) |  Proposed Granular Shading |
| Orange | (70) |  Proposed Shoulder Granular Shading |
| Yellow | (68) |  Proposed Shoulder Paved Full Depth Shading |
| Yellow | (132) |  Proposed Shoulder Paved Partial Depth Shading |
| Gray, Dark | (112) |  Proposed Grade and Pave Shading "In conjunction with a paving project" |
| Brown, Light | (236) |  Grading Shading |
| Orange, Light | (134) |  Proposed Granular Entrance Shading |
| Yellow | (220) |  Proposed Paved Entrance Shading |
| Tan | (8) |  Proposed Sidewalk Shading |
| Blue, Light | (230) |  Proposed Sidewalk Landing Shading |
| Pink | (11) |  Proposed Sidewalk Ramp Shading |
| Green, Light | (225) |  Existing Pavement Shading |

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

| LINEWORK | Design Color No. | |
|-------------|------------------|---|
| Green | (10) |  Existing Ground Line Profile |
| Blue | (1) |  Proposed Profile and Annotation |
| Magenta | (5) |  Existing Utilities |
| Blue, Light | (230) |  Proposed Ditch Grades, Left |
| Black | (0) |  Proposed Ditch Grades, Median |
| Rust | (14) |  Proposed Ditch Grades, Right |



RIGHT-OF-WAY LEGEND

-  Proposed Right-of-Way
-  Existing Right of Way
-  Existing and Proposed Right-of-Way
-  Easement and Existing Right-of-Way
-  Easement (Temporary)
-  Easement
-  Access Control
-  Property Line

GOVERNING SPECIFICATION

THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS GENERAL SUPPLEMENTAL SPECIFICATIONS; AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS, SHALL APPLY TO CONSTRUCTION ON THIS PROJECT. FOR SOME ITEMS OF WORK, THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) SPECIFICATIONS MANUAL SHALL GOVERN. REFER TO SPECIAL PROVISIONS FOR WHICH ITEMS ARE TO SUDAS SPECIFICATIONS.

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

NOTES

1. WHERE PUBLIC UTILITY FIXTURES OR FACILITIES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THESE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION INVOLVING EXCAVATION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES OR RELOCATION. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY, RECORDS AND UTILITY OPERATOR LOCATION MARKINGS THAT WERE REQUESTED THROUGH IOWA ONE CALL; THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY THE WORK.

2. CONTRACTOR SHALL COORDINATE UTILITY RELOCATIONS WITH THE UTILITY COMPANIES, THIS SHALL BE INCIDENTAL TO THE PROJECT.

3. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING STREET SIGNS AS NECESSARY TO FACILITATE CONSTRUCTION OF THIS PROJECT, AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

4. CONTRACTOR SHALL ENSURE REMOVAL OF RESIDENTIAL AND COMMERCIAL WASTE (GARBAGE) ON THE REGULAR SCHEDULE FOR PROPERTIES IN THE PROJECT AREA. IF NORMAL ACCOMODATIONS CANNOT BE MET THE CONTRACTOR SHALL COORDINATE AND MOVE EXISTING BINS TO A SITE THAT CAN BE ACCESSED BY THE WASTE DISPOSAL COMPANY. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

5. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS (FLOW LINES, RIM ELEVATIONS, ETC.) PRIOR TO FABRICATING STRUCTURES. CONNECTIONS WITH EXISTING PIPES SHALL BE CONSIDERED INCIDENTAL UNLESS OTHERWISE STATED IN THE PLANS

6. CONTRACTOR SHALL COMPLETE MULCHING AND STABILIZING CROP - SEEDING AND FERTILIZING OF ALL DISTURBED SOIL AREAS IMMEDIATELY FOLLOWING THE COMPLETION OF WORK.
PERMANENT SEEDING AND FERTILIZING TO BE DONE BY BUTLER COUNTY.

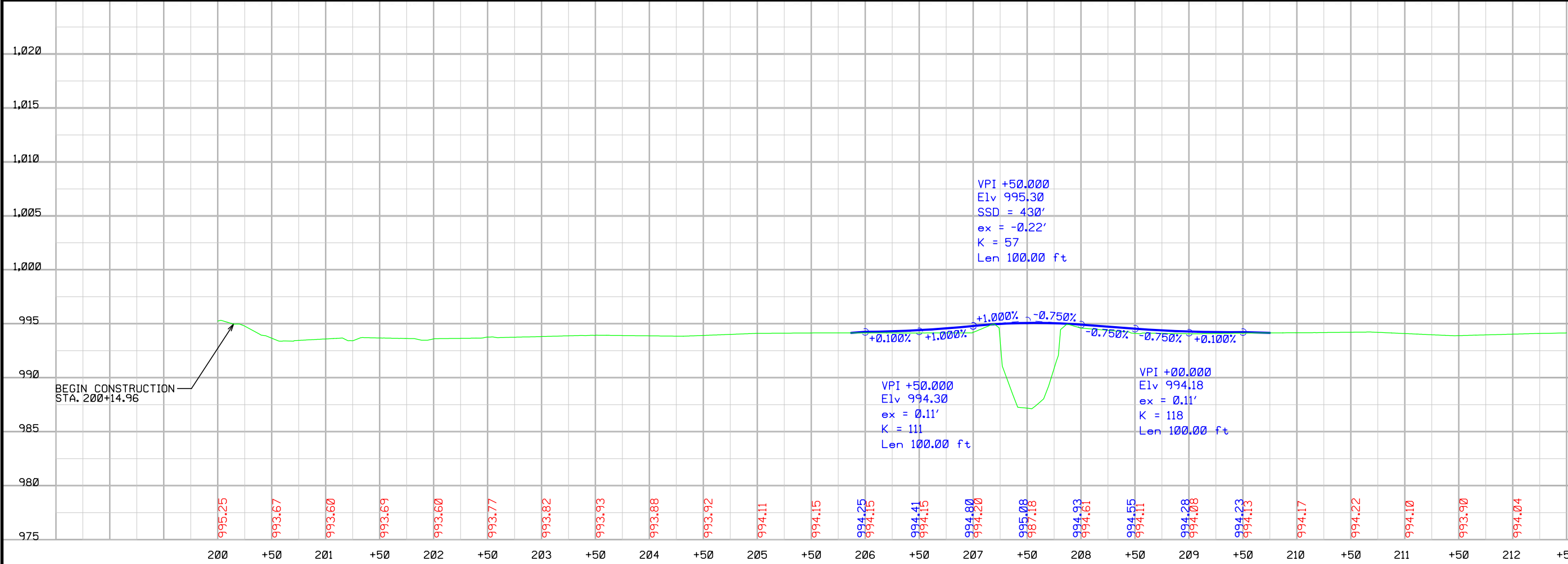
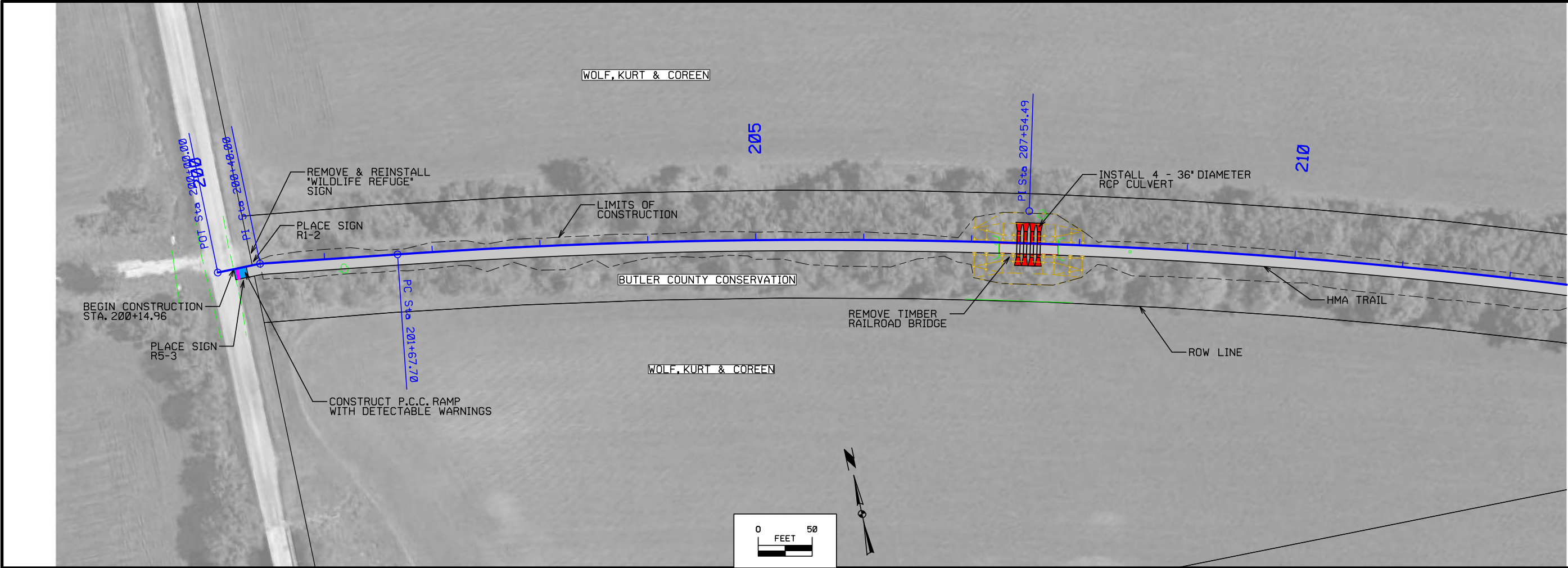
whks
engineers + planners + land surveyors

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GENERAL NOIES

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

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| SCALE | NONE |
| PROJECT NO. | 9513.00 |
| DRAWN BY: | EF |
| CHECKED BY: | SS |
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engineers + planners + land surveyors

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PLAN AND PROFILE

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

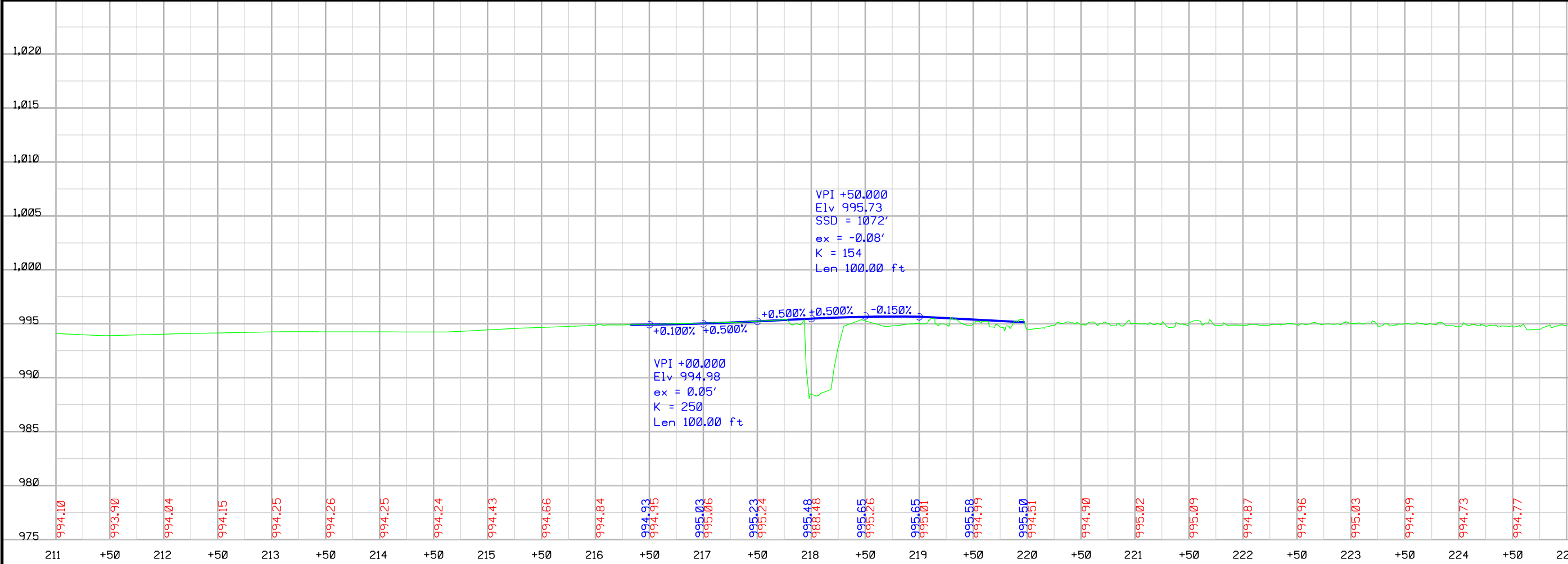
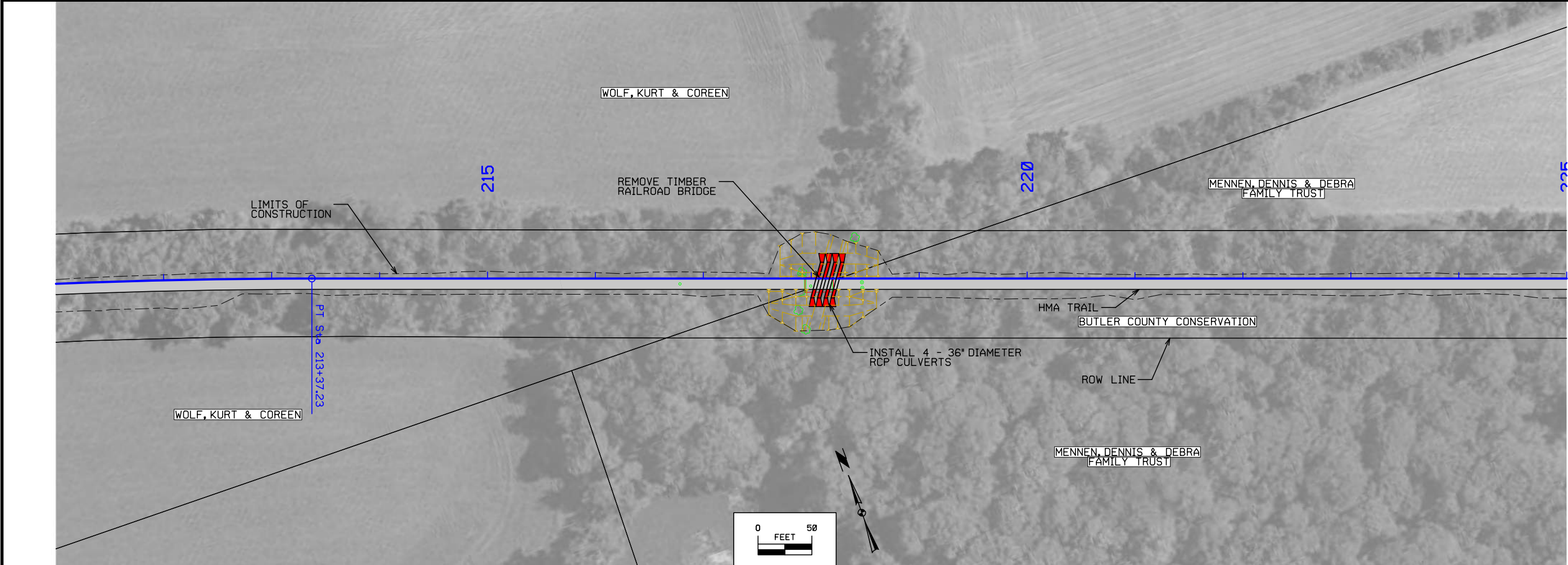
SCALE 50

PROJECT NO. 9513.00

DRAWN BY: EF

CHECKED BY: SS

SHEET D.2





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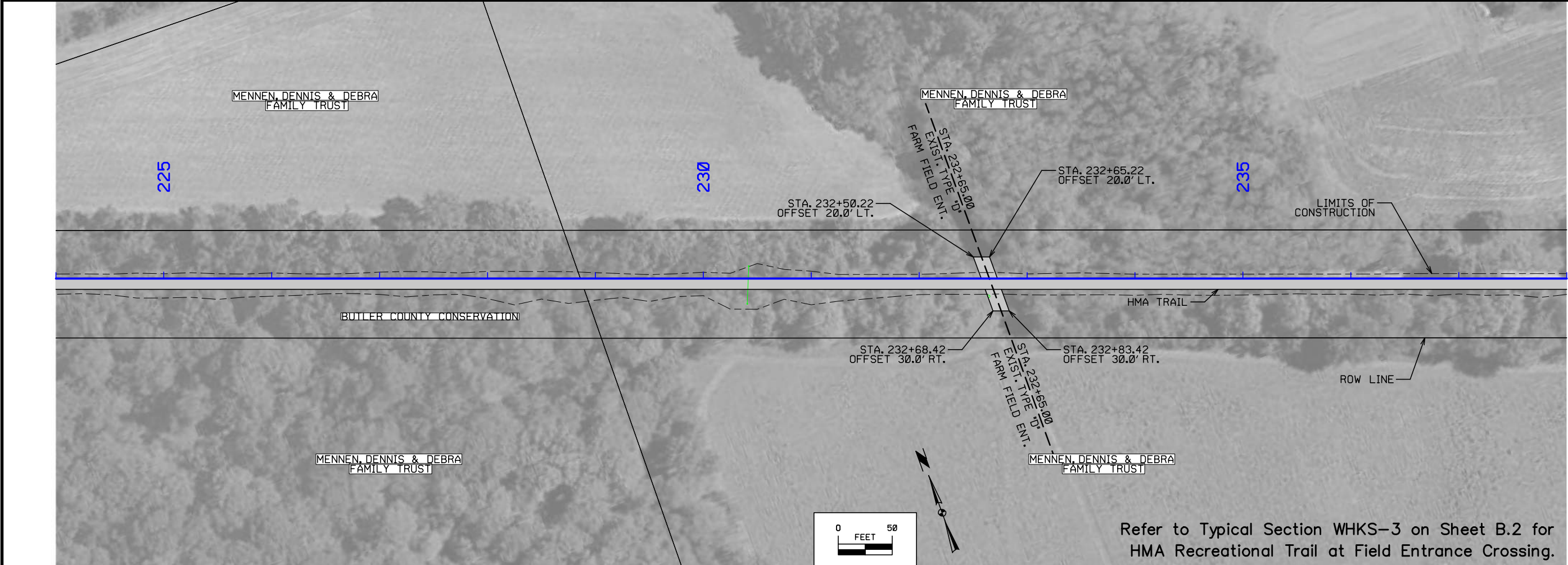
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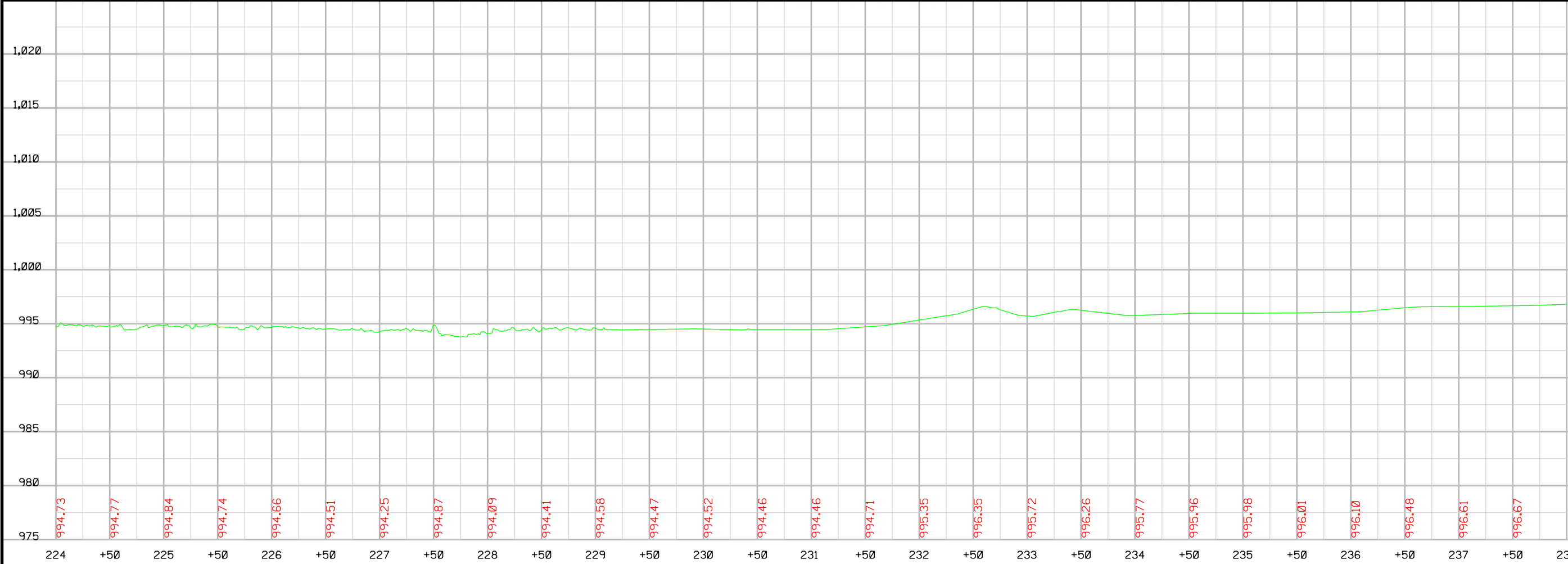
PLAN AND PROFILE

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

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| SCALE | 50 |
| PROJECT NO. | 9513.00 |
| DRAWN BY: | EF |
| CHECKED BY: | SS |
| SHEET | D.3 |



Refer to Typical Section WHKS-3 on Sheet B.2 for
HMA Recreational Trail at Field Entrance Crossing.





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PLAN AND PROFILE

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

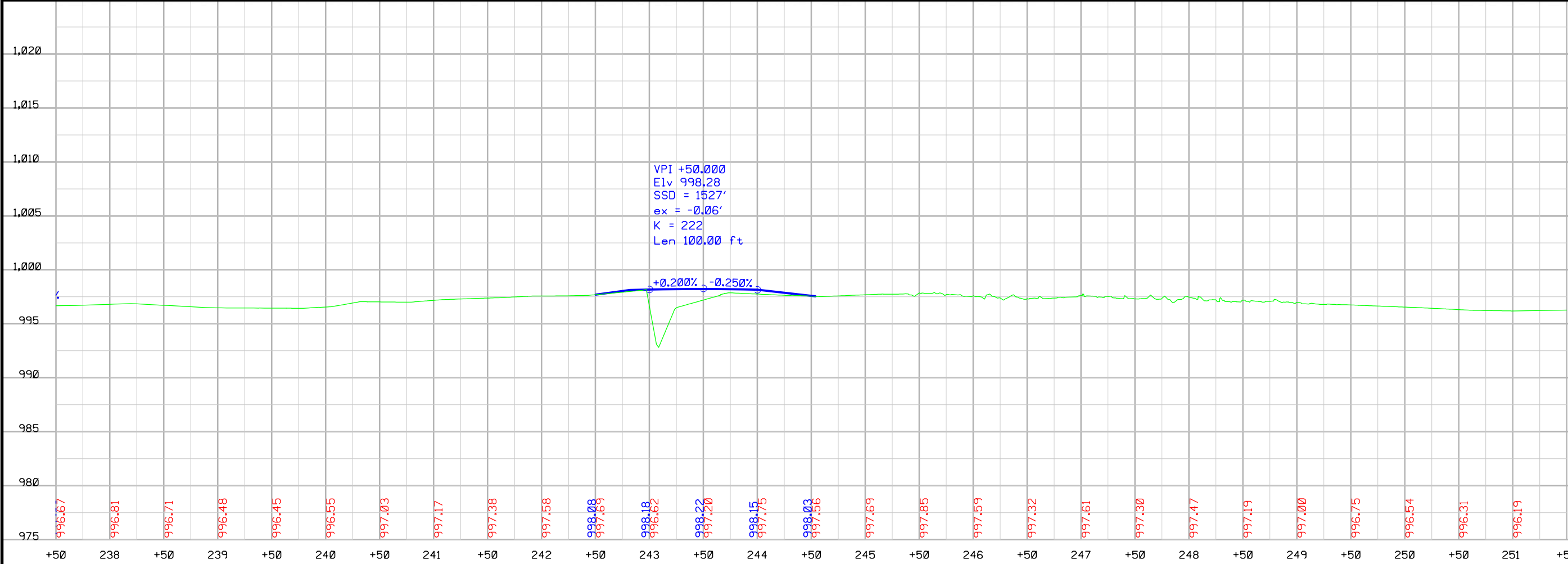
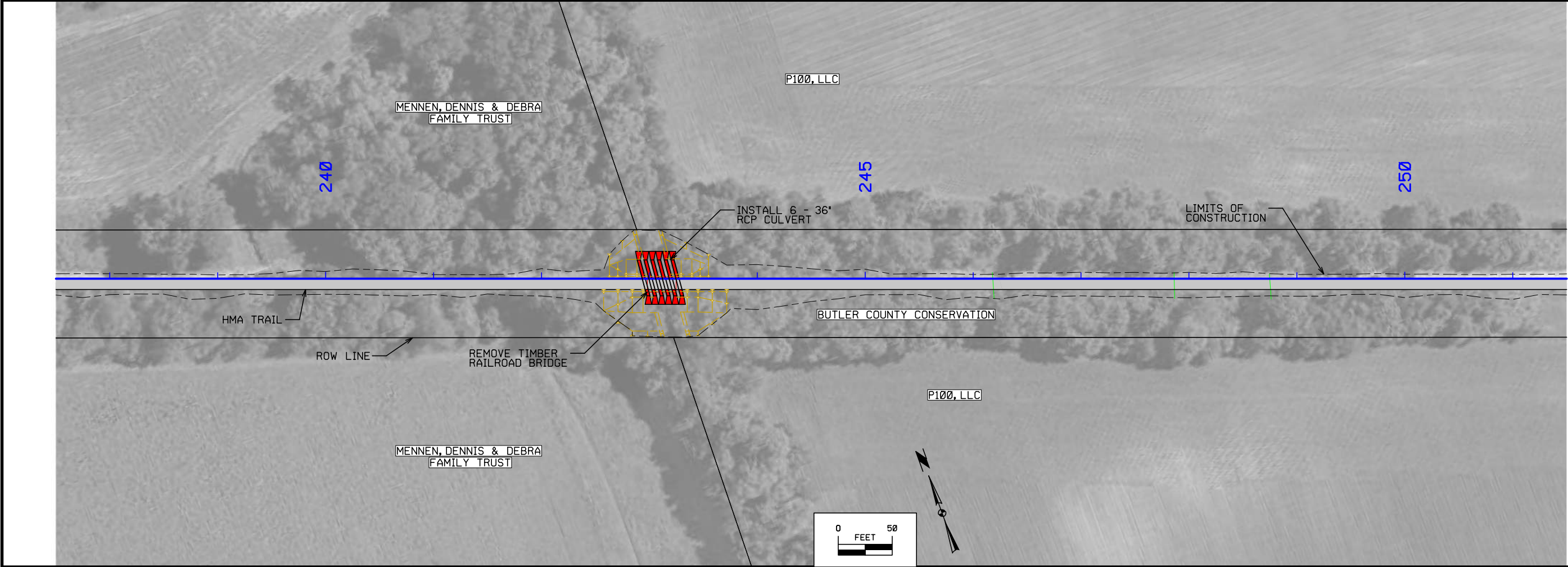
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PROJECT NO. 9513.00

DRAWN BY: EF

CHECKED BY: SS

SHEET D.4





engineers + planners + land surveyors

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PLAN AND PROFILE

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

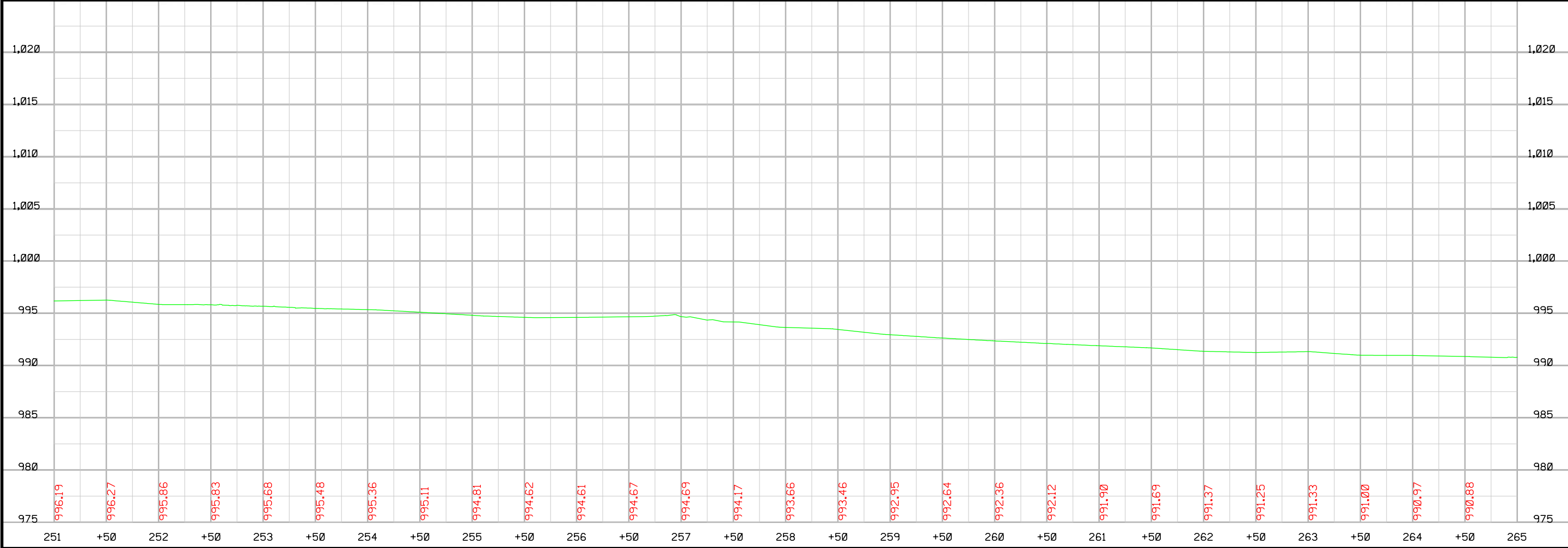
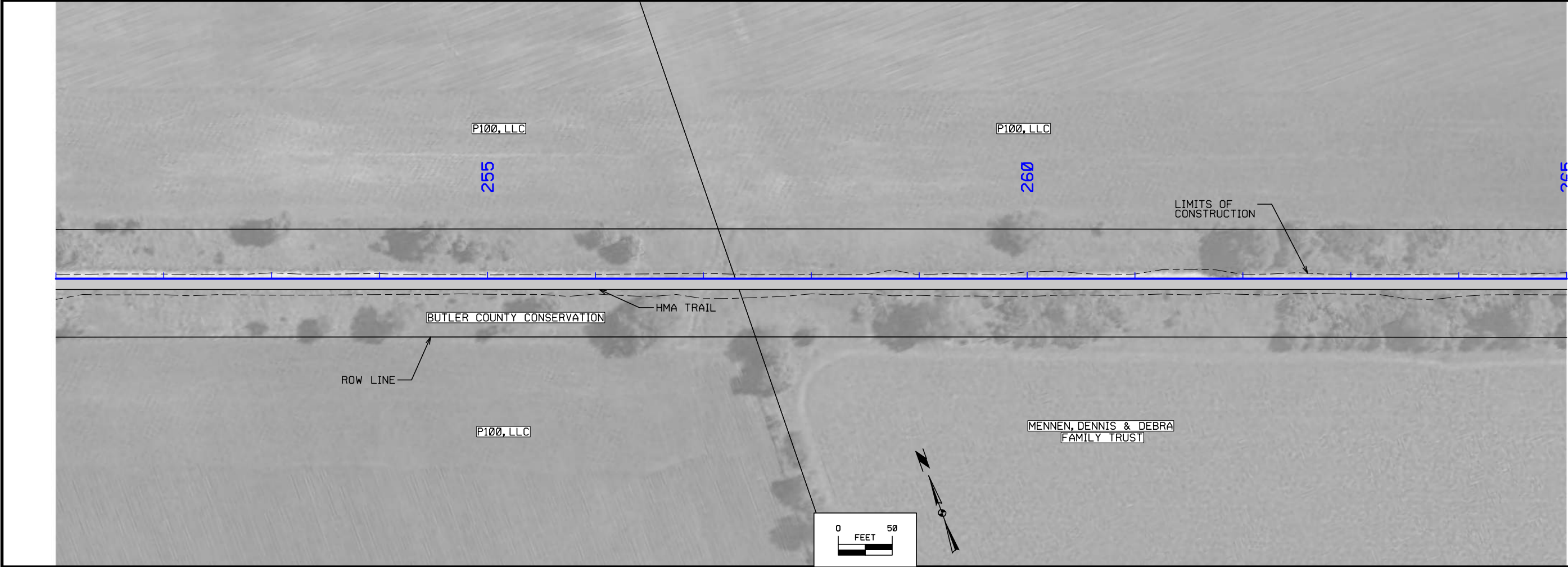
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PROJECT NO. 9513.00

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SHEET D.5





engineers + planners + land surveyors

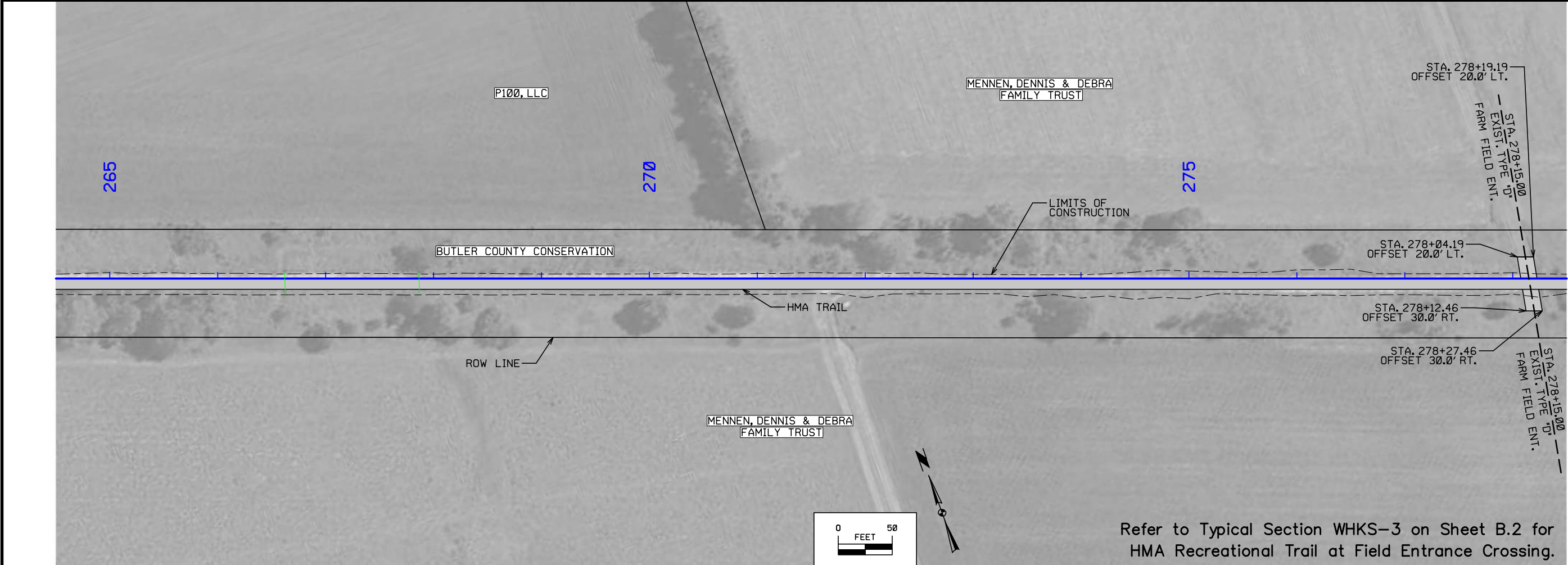
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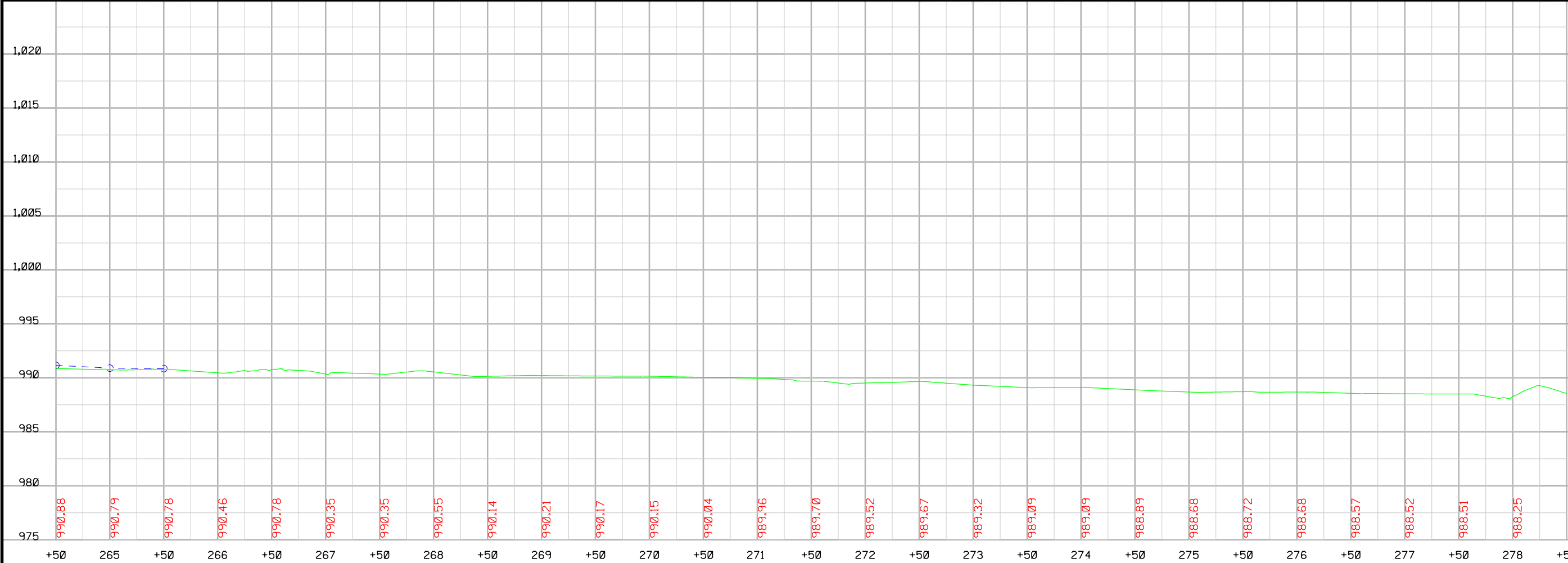
PLAN AND PROFILE

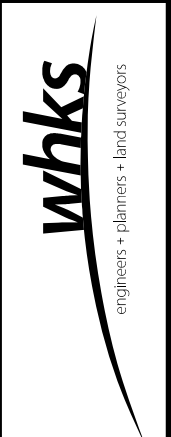
ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

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| SCALE | 50 |
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| CHECKED BY: | SS |
| SHEET | D.6 |



Refer to Typical Section WHKS-3 on Sheet B.2 for
HMA Recreational Trail at Field Entrance Crossing.

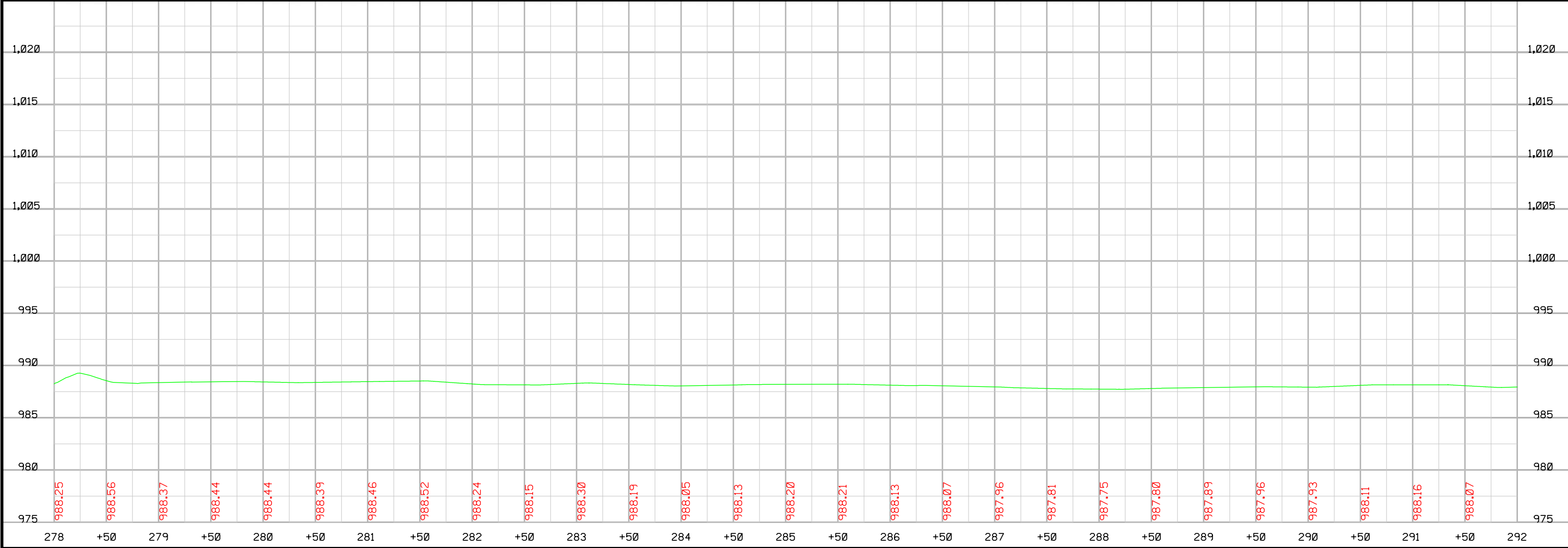
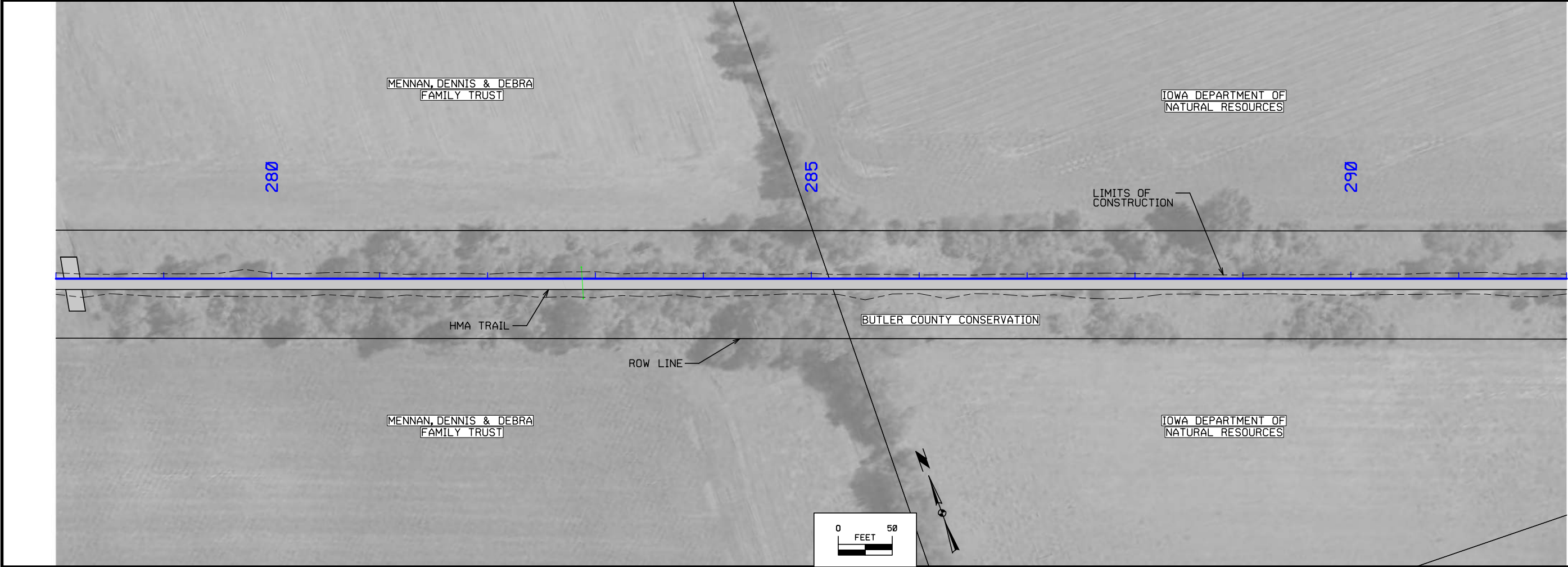


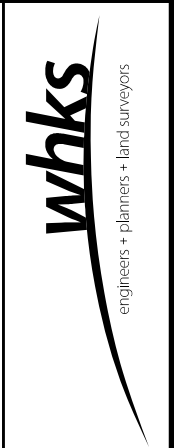


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| PLAN AND PROFILE | |
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| ROLLING PRAIRIE TRAIL IMPROVEMENTS | |
| BUTLER COUNTY CONSERVATION BOARD | |
| PROJECT# TAP-R-C012(136)--8T-12 | |
| SCALE | 50 |
| PROJECT NO. | 9513.00 |
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| CHECKED BY: | SS |
| SHEET | D.7 |

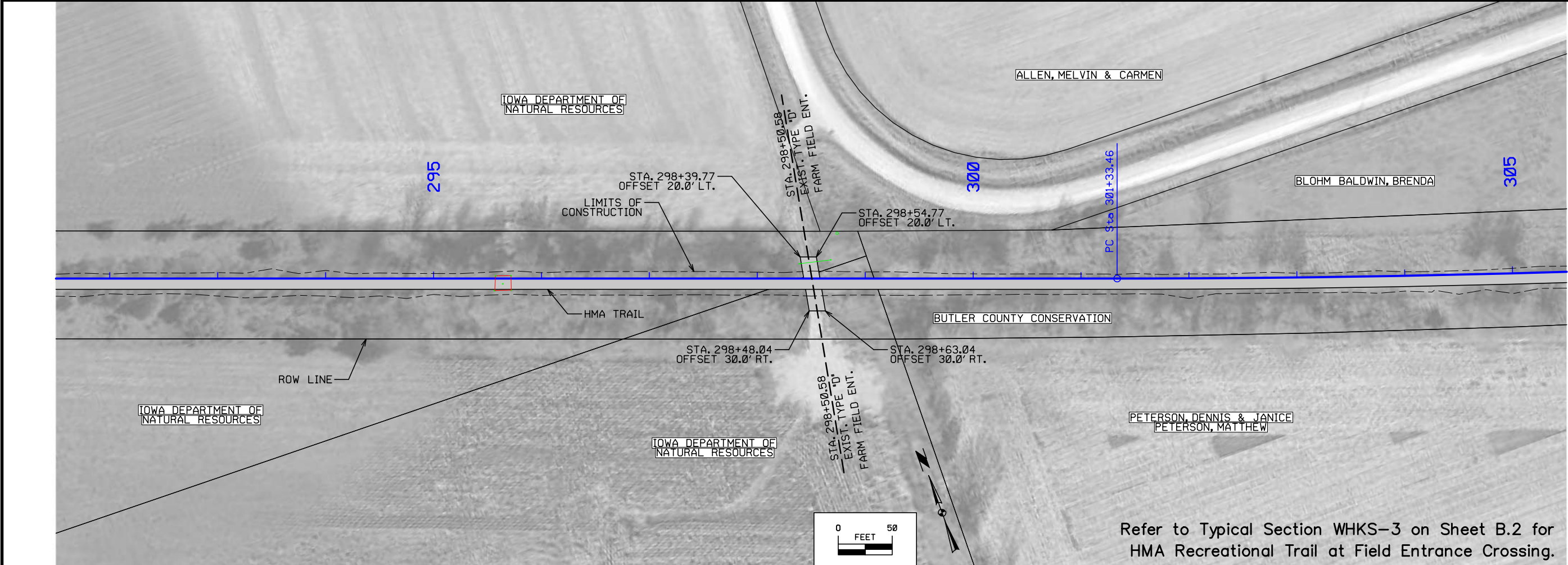




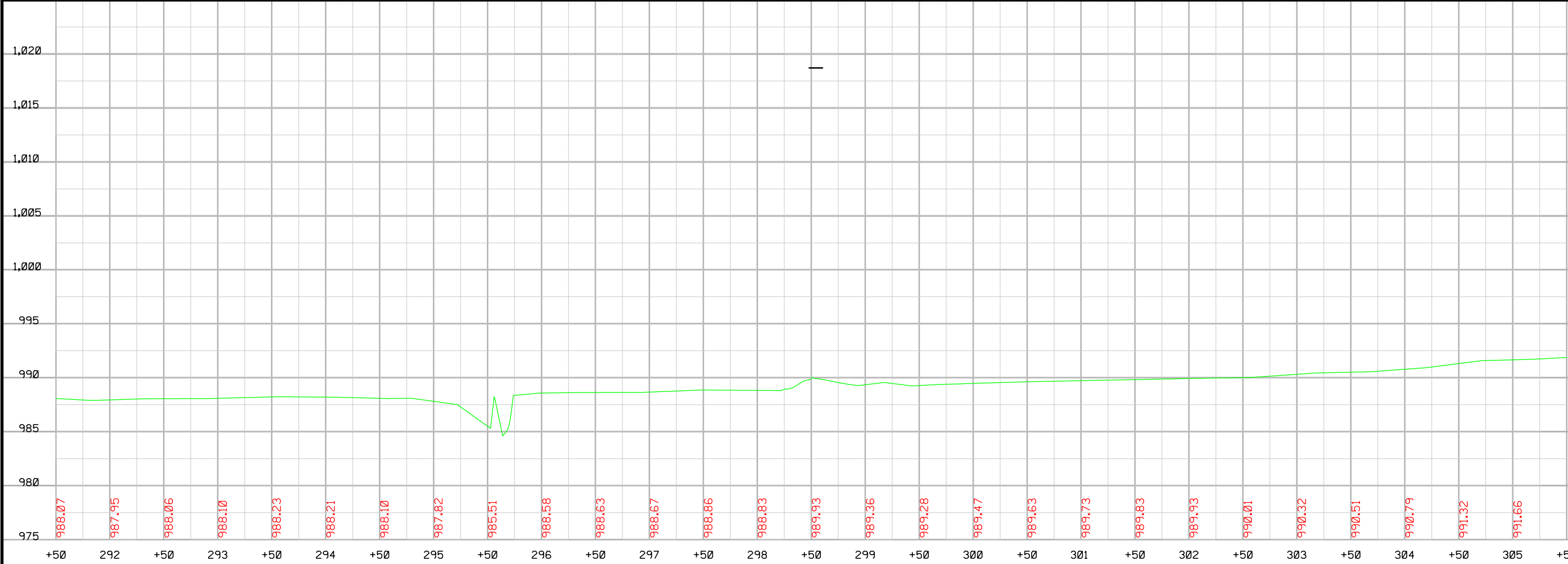
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| ROLLING PRAIRIE TRAIL IMPROVEMENTS | |
| BUTLER COUNTY CONSERVATION BOARD | |
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| SCALE | 50 |
| PROJECT NO. | 9513.00 |
| DRAWN BY: | EF |
| CHECKED BY: | SS |
| SHEET | D.8 |



Refer to Typical Section WHKS-3 on Sheet B.2 for
HMA Recreational Trail at Field Entrance Crossing.





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PLAN AND PROFILE

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)---8T-12

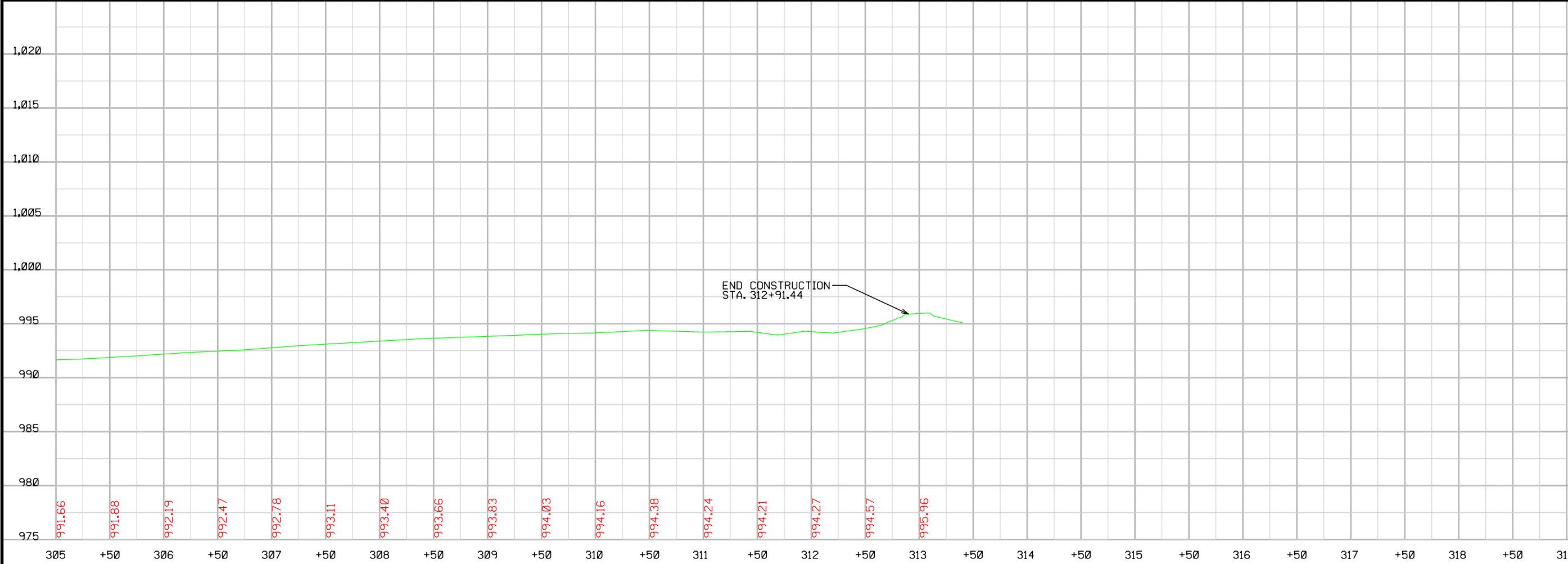
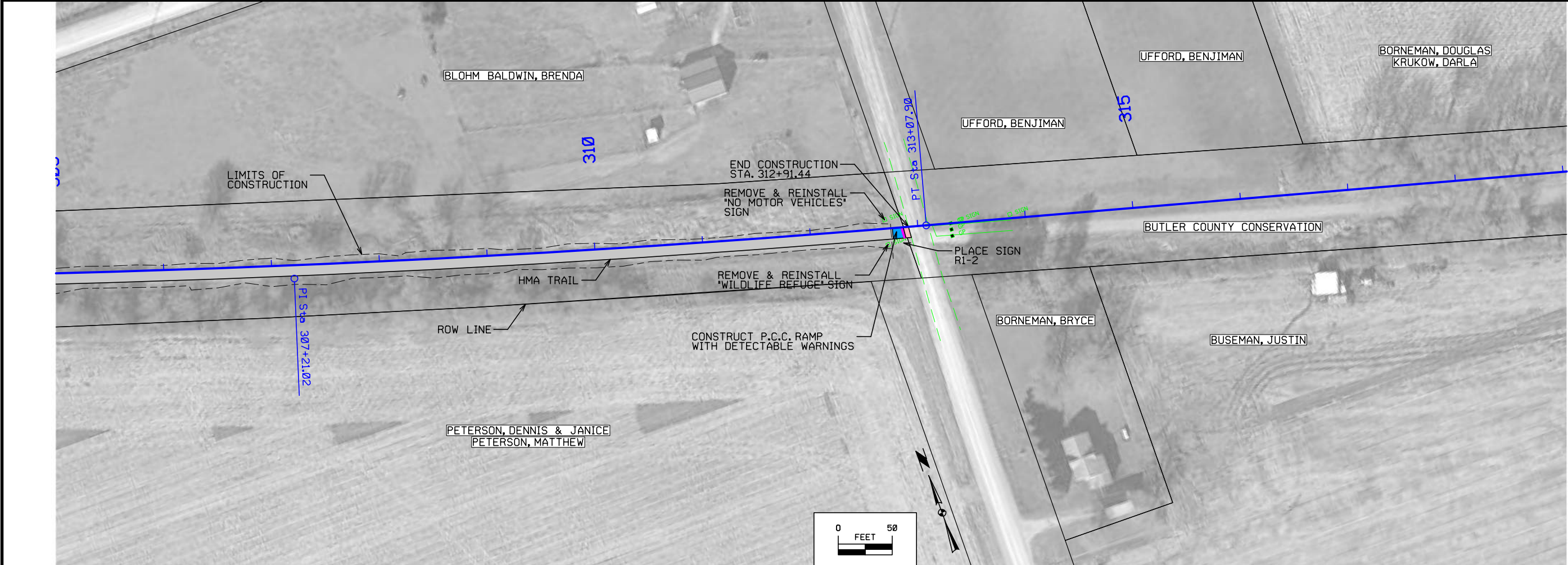
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PLAN AND PROFILE

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

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| SCALE | 50 |
| PROJECT NO. | 9513.00 |
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| CONTROL POINTS | | | | |
|----------------|---------------|----------------|-----------|----------------|
| NO. | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| CP1 | 8,935,600.139 | 15,302,339.890 | 977.008 | CP |
| CP2 | 8,935,506.222 | 15,304,635.700 | 976.919 | CP |
| K29 | 8,938,176.729 | 15,300,994.800 | 990.474 | CP |
| 105 | 8,930,888.341 | 15,291,547.780 | 998.738 | CP |
| 171 | 8,930,104.231 | 15,307,574.090 | 971.825 | CP |
| 201 | 8,940,462.902 | 15,291,617.270 | 991.924 | CP*5/8IN REBAR |
| 202 | 8,942,152.598 | 15,291,645.770 | 1,000.729 | CP*60D SPK |
| 204 | 8,939,431.944 | 15,301,062.550 | 1,034.470 | CP*5/8IN REBAR |
| 205 | 8,941,219.506 | 15,292,365.410 | 994.903 | CP*60D SPK |
| 206 | 8,940,371.431 | 15,294,760.110 | 995.708 | CP*60D SPK |
| 208 | 8,940,922.082 | 15,293,272.510 | 995.139 | CP*SPK |
| 9207 | 8,941,186.043 | 15,292,485.100 | 993.900 | CP*SPK |
| BASE200 | 8,941,186.043 | 15,302,436.850 | 975.177 | CP |
| RTCM0208 | 8,935,830.091 | 15,355,673.840 | 1,062.362 | RTN BASE |

| ALIGNMENT COORDINATES | | | | | | | | | | | | | | |
|-----------------------|----------|------------------|---------------|----------------|---------------|-------------|---------------|----------------|-------------------------------------|---------------|----------------|-----------|---------------|----------------|
| Name | Location | Point on Tangent | | | | Begin Curve | | | Simple Curve PI or Master PI of SCS | | | End Curve | | |
| | | Station | Coordinates | | | Station | Coordinates | | Station | Coordinates | | Station | Coordinates | |
| | | | Y (Northing) | X (Easting) | Z (Elevation) | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) |
| ROLLING PRAIRIE TRAIL | L-7 | 200+00.00 | 8,941,340.509 | 15,291,654.282 | | | | | | | | | | |
| | L-8 | 200+40.00 | 8,941,340.190 | 15,291,694.280 | | | | | | | | | | |
| | C-5 | | | | | 201+67.36 | 8,941,321.902 | 15,291,820.323 | 207+53.64 | 8,941,237.721 | 15,292,400.521 | 213+35.87 | 8,941,038.175 | 15,292,951.790 |
| | C-6 | | | | | 301+32.10 | 8,938,044.258 | 15,301,222.833 | 307+19.88 | 8,937,844.201 | 15,301,775.513 | 313+06.96 | 8,937,691.174 | 15,302,343.017 |
| | L-9 | 320+00.00 | 8,937,510.741 | 15,303,012.158 | | | | | | | | | | |
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REVISIONS

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CONTROL AND ALIGNMENT DATA

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)---8T-12

SCALE

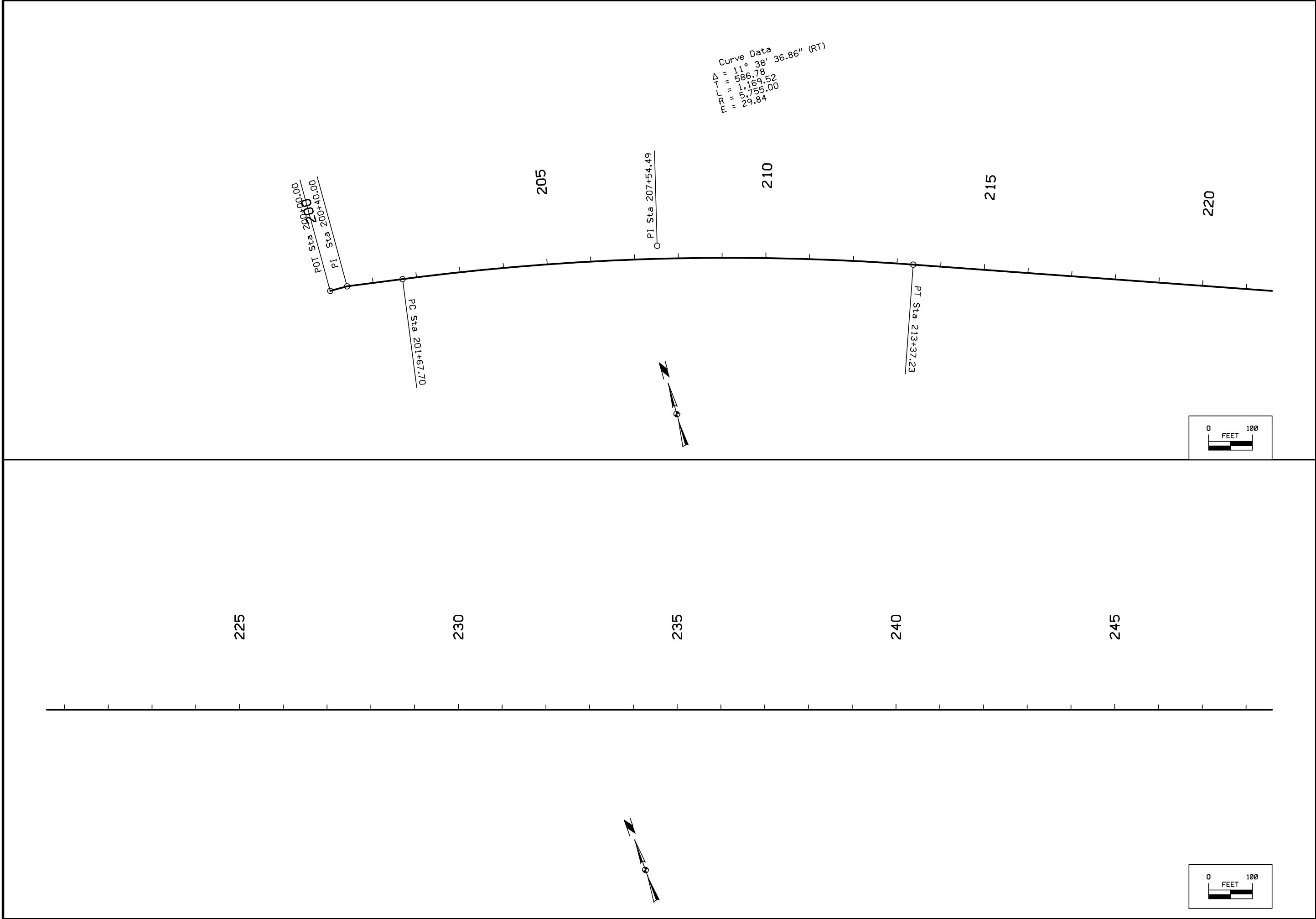
PROJECT NO.
9513.00

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CONTROL AND ALIGNMENT DATA

ROLLING PRAIRIE TRAIL IMPROVEMENTS
BUTLER COUNTY CONSERVATION BOARD
PROJECT# TAP-R-C012(136)--8T-12

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PROJECT NO.

9513.00

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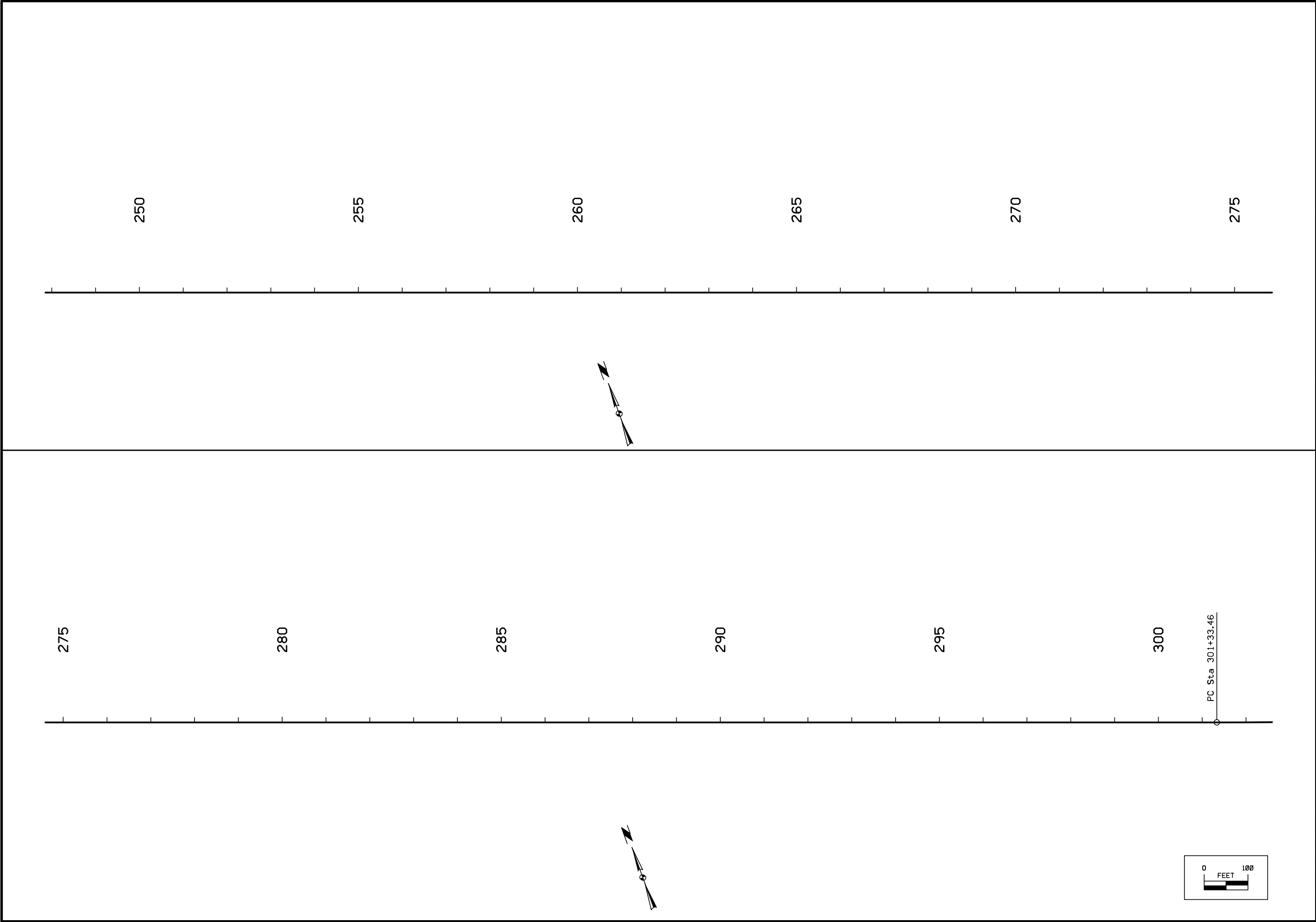
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CONTROL AND ALIGNMENT DATA

ROLLING PRAIRIE TRAIL IMPROVEMENTS

BUTLER COUNTY CONSERVATION BOARD

PROJECT# TAP-R-C012(136)--8T-12

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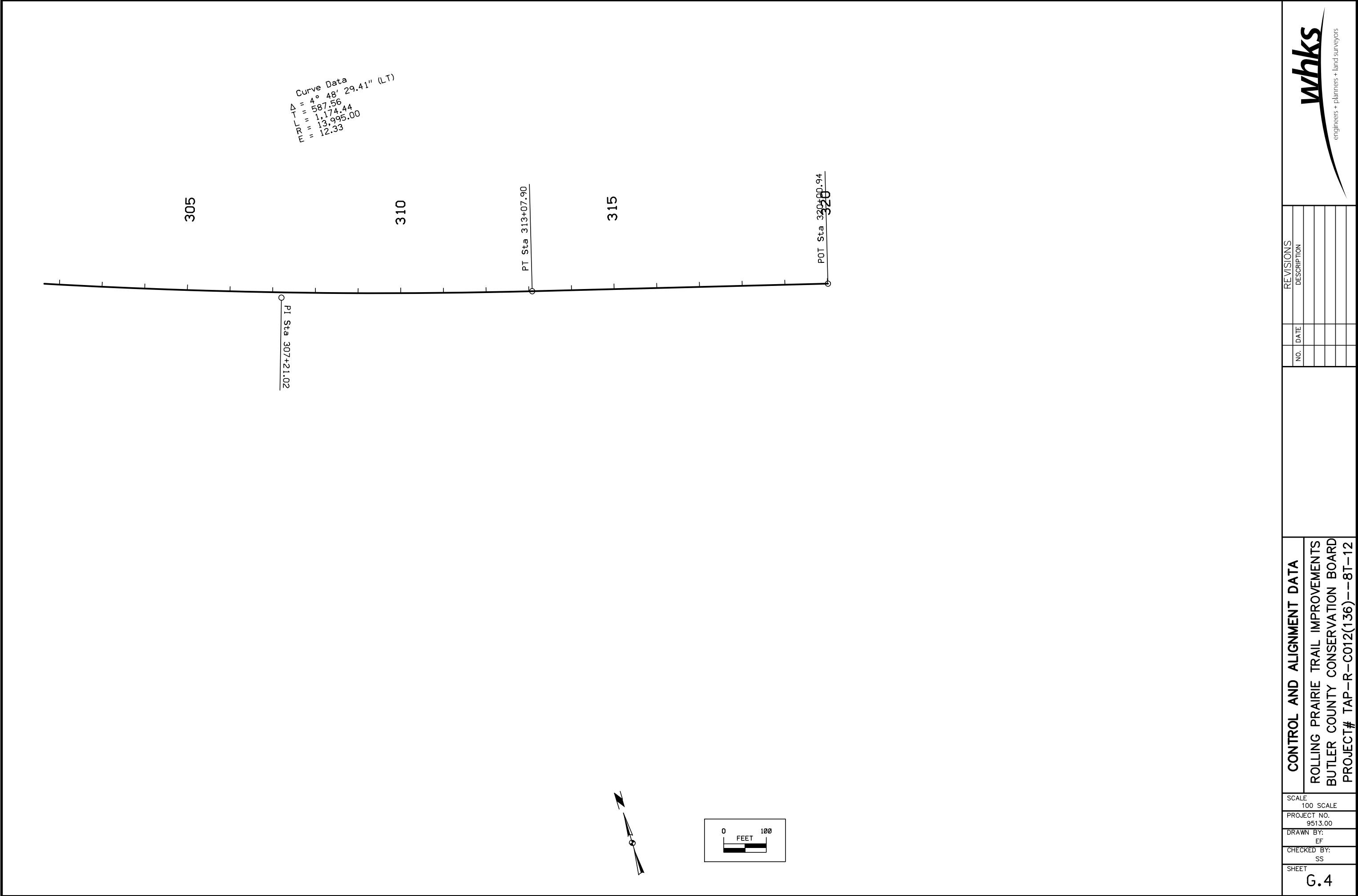
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REVISIONS

DESCRIPTION

whks

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|--|---------|-------------|------------|---------------------|----------------|------------------------|--------------|-----|
| TRAFFIC CONTROL PLAN | | | | 108-23A 08-01-08 | | | | |
| <div>1. Trail will be closed during construction.</div> <div>2. Traffic control shall utilize the standard road plans TC-1 and TC-202.</div> <div>3. Maintain access to fields for property owners.</div> <div>4. Contractor shall stage construction to minimize inconvenience to traffic and maintain local access along Franklin and Cedar Aves.</div> <div>5. The Contractor shall fully cooperate with County Conservation Board including suspension of work and the removal or relocation of construction construction equipment or traffic control devices as requested by the City, due to emergencies or special events.</div> <div>6. No pedestrian facilities are present on the project site currently.</div> | | | | | | | | |
| FILE NO. | ENGLISH | DESIGN TEAM | WHKS & Co. | BUTLER COUNTY | PROJECT NUMBER | TAP-R-C012(136)--8T-12 | SHEET NUMBER | J.1 |

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TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

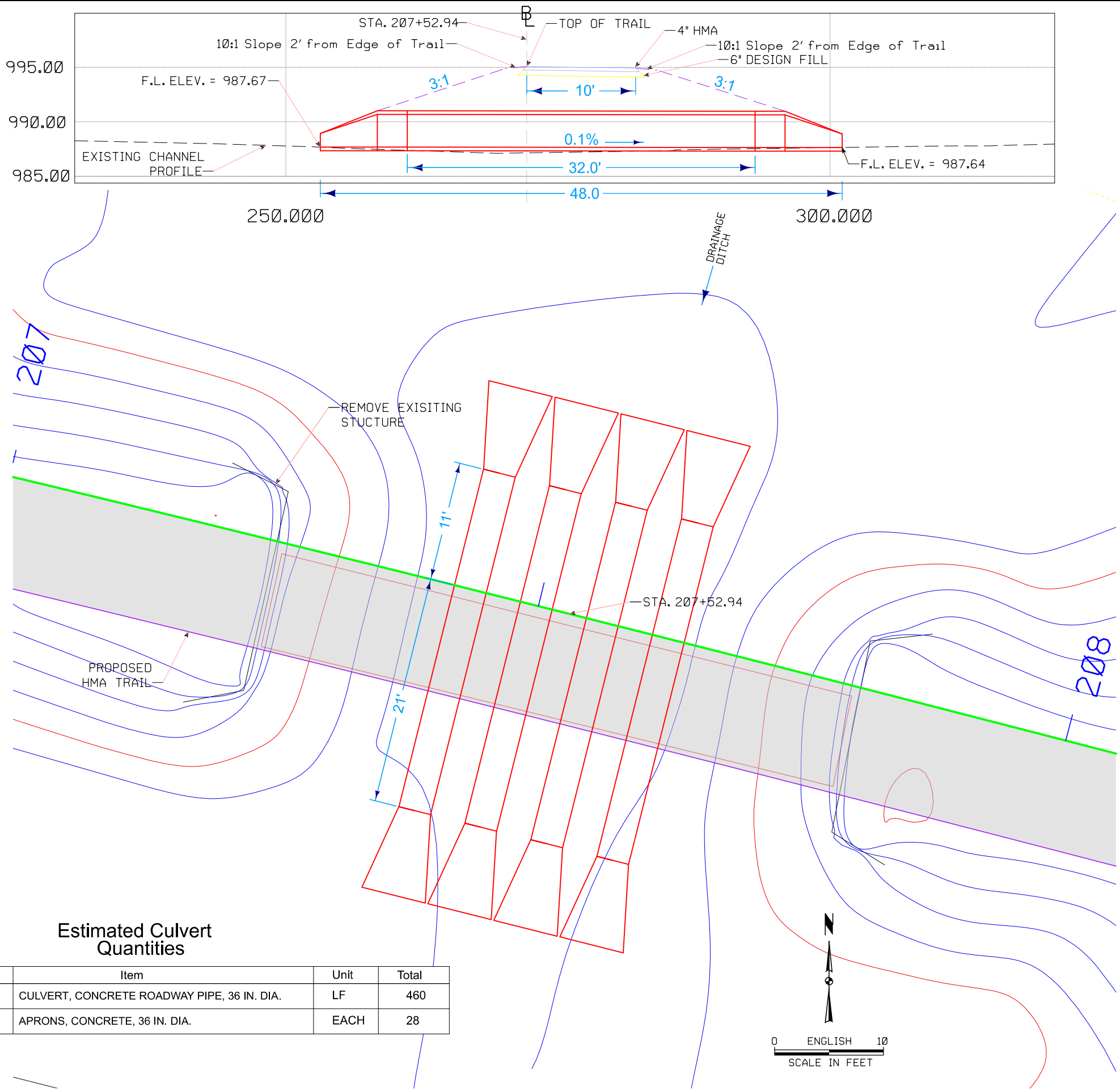
| Station | Cut | | | | Fill | | | | Checks (EW-102) | | Topsoil | | | | | | | | | | | |
|------------|-----------------------------|----------------------------------|--------------------|--------------------|------------------------------|---------------------|---|---|--|--|-----------------------------------|-----------------------------------|--|--|------|------|------|------|------|------|------|------|
| | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] |
| | Total Cut Unadjusted Volume | Total Class 10 Unadjusted Volume | Topsoil Cut Volume | Total Cut Adjusted | Total Fill Unadjusted Volume | Total Fill Adjusted | Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor | Total Cut Adjusted Minus Fill w/ Shrink | Approx. Fill Vol. Below 5' & Above 20' w/ Shrink | Approx. Fill Volume Below 3' w/ Shrink | Topsoil Stripping Undercut Volume | Topsoil Placement Undercut Volume | Topsoil Placement With 1.4 Shrink Factor | Topsoil Stripping Minus Topsoil Placement w/Shrink | | | | | | | | |
| GEO_RPT1 | | | | | | | | | | | | | | | | | | | | | | |
| 200+14.98 | 9 | 9 | 0 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 201+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 202+00.00 | 29 | 29 | 0 | 29 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 203+00.00 | 30 | 30 | 0 | 30 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 204+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 205+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 206+00.00 | 11 | 10 | 1 | 10 | 33 | 33 | 43 | -32 | 0 | 0 | 1 | 0 | 0 | 1 | | | | | | | | |
| 207+00.00 | 5 | 3 | 3 | 3 | 61 | 61 | 79 | -77 | 0 | 0 | 3 | 0 | 0 | 3 | | | | | | | | |
| 208+00.00 | 16 | 14 | 1 | 14 | 29 | 29 | 37 | -23 | 0 | 0 | 1 | 0 | 0 | 2 | | | | | | | | |
| 209+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 210+00.00 | 31 | 31 | 0 | 31 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 211+00.00 | 30 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 212+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 213+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 214+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 215+00.00 | 26 | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 216+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 217+00.00 | 23 | 17 | 7 | 17 | 336 | 336 | 437 | -421 | 0 | 0 | 7 | 0 | 0 | 7 | | | | | | | | |
| 218+00.00 | 12 | 5 | 7 | 5 | 338 | 338 | 439 | -434 | 0 | 0 | 7 | 0 | 0 | 7 | | | | | | | | |
| 219+00.00 | 21 | 21 | 0 | 21 | 1 | 1 | 2 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 220+00.00 | 31 | 31 | 0 | 31 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 221+00.00 | 31 | 31 | 0 | 31 | 0 | 0 | 1 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 222+00.00 | 33 | 33 | 0 | 33 | 0 | 0 | 1 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 223+00.00 | 30 | 30 | 0 | 30 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 224+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 225+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 226+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 1 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 227+00.00 | 32 | 32 | 0 | 32 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 228+00.00 | 34 | 34 | 0 | 34 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 229+00.00 | 32 | 32 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 230+00.00 | 32 | 32 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 231+00.00 | 31 | 31 | 0 | 31 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 232+00.00 | 22 | 22 | 0 | 22 | 1 | 1 | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 233+00.00 | 14 | 14 | 0 | 14 | 1 | 1 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 234+00.00 | 21 | 21 | 0 | 21 | 1 | 1 | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 235+00.00 | 32 | 32 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 236+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 237+00.00 | 21 | 21 | 0 | 21 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 238+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 239+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 240+00.00 | 26 | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 241+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 242+00.00 | 13 | 13 | 1 | 13 | 105 | 105 | 136 | -124 | 0 | 0 | 1 | 0 | 0 | 1 | | | | | | | | |
| 243+00.00 | 1 | 0 | 1 | 0 | 128 | 128 | 167 | -167 | 0 | 0 | 1 | 0 | 0 | 1 | | | | | | | | |
| 244+00.00 | 11 | 11 | 0 | 11 | 23 | 23 | 31 | -20 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 245+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 1 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 246+00.00 | 21 | 21 | 0 | 21 | 0 | 0 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 247+00.00 | 17 | 17 | 0 | 17 | 0 | 0 | 1 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 248+00.00 | 19 | 19 | 0 | 19 | 0 | 0 | 1 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 249+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 250+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 251+00.00 | 26 | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 252+00.00 | 26 | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 253+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 254+00.00 | 23 | 23 | 0 | 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 255+00.00 | 21 | 21 | 0 | 21 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 256+00.00 | 20 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 257+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 258+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 259+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 260+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 261+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 262+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 263+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 264+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 265+00.00 | 23 | 23 | 0 | 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 266+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 267+00.00 | | | | | | | | | | | | | | | | | | | | | | |
| Subtotals: | 1,589 | 1,569 | 20 | 1,569 | 1,063 | 1,063 | 1,385 | 186 | 0 | 0 | 20 | 0 | 0 | 20 | | | | | | | | |

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

| Station | Cut | | | | Fill | | | | Checks (EW-102) | | Topsoil | | | | | | | | | | | |
|-----------|-----------------------------|----------------------------------|--------------------|--------------------|--|---------------------|---|---|--|--|-----------------------------------|-----------------------------------|--|--|------|------|------|------|------|------|------|------|
| | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] |
| | Total Cut Unadjusted Volume | Total Class 10 Unadjusted Volume | Topsoil Cut Volume | Total Cut Adjusted | Total Fill Unadjusted Volume | Total Fill Adjusted | Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor | Total Cut Adjusted Minus Fill w/ Shrink | Approx. Fill Vol. Below 5' & Above 20' w/ Shrink | Approx. Fill Volume Below 3' w/ Shrink | Topsoil Stripping Undercut Volume | Topsoil Placement Undercut Volume | Topsoil Placement With 1.4 Shrink Factor | Topsoil Stripping Minus Topsoil Placement w/Shrink | | | | | | | | |
| 267+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 268+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 269+00.00 | 23 | 23 | 0 | 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 270+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 271+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 272+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 273+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 274+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 275+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 276+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 277+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 278+00.00 | 29 | 29 | 0 | 29 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 279+00.00 | 31 | 31 | 0 | 31 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 280+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 281+00.00 | 23 | 23 | 0 | 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 282+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 283+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 284+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 285+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 286+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 287+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 288+00.00 | 28 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 289+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 290+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 291+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 292+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 293+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 294+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 295+00.00 | 29 | 29 | 0 | 29 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 296+00.00 | 30 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 297+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 298+00.00 | 23 | 23 | 0 | 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 299+00.00 | 20 | 20 | 0 | 20 | 0 | 0 | 1 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 300+00.00 | 22 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 301+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 302+00.00 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 303+00.00 | 26 | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 304+00.00 | 26 | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 305+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 1 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 306+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 307+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 308+00.00 | 23 | 23 | 0 | 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 309+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 310+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 311+00.00 | 25 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 312+00.00 | 24 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 312+90.00 | 18 | 18 | 0 | 18 | 0 | 0 | 1 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| GEO_RPTI | | | | | | | | | | | | | | | | | | | | | | |
| Totals: | 2,742 | 2,722 | 20 | 2,722 | 1,068 | 1,068 | 1,393 | 1,334 | 0 | 0 | 20 | 0 | 0 | 21 | | | | | | | | |
| | | | | | Excavation, Class 10, Roadway & Borrow | | | | | | | | | | | | | | | | | |
| | | | | | | | 1,393 | CY | | | | | | | | | | | | | | |
| | | | | | | | [7] | | | | | | | | | | | | | | | |
| | | | | | Excavation, Class 10, Waste | | | | | | | | | | | | | | | | | |
| | | | | | | | 1,329 | CY | | | | | | | | | | | | | | |
| | | | | | | | [4] - [7] | | | | | | | | | | | | | | | |
| | | | | | Topsoil, Strip, Salvage & Spread | | | | | | | | | | | | | | | | | |
| | | | | | | | 20 | CY | | | | | | | | | | | | | | |
| | | | | | | | [11] | | | | | | | | | | | | | | | |

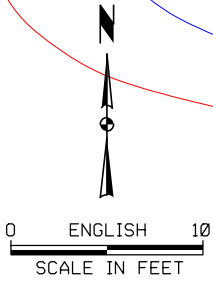
LOCATION

RECREATION TRAIL
IN BUTLER COUNTY, IA
T-92N R-18W
SECTION 30
PITTFORD TOWNSHIP
LAT: 42.76064
LON: -93.02512

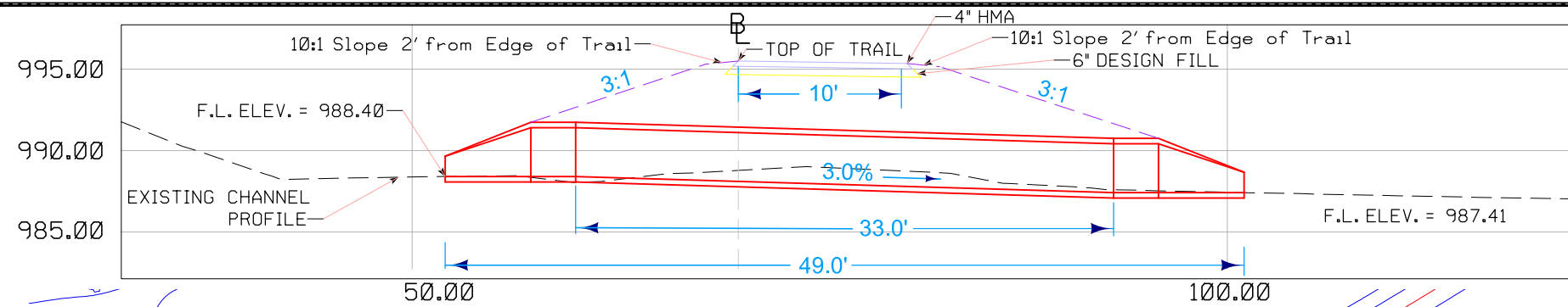


Estimated Culvert
Quantities

| Item No. | Item Code | Item | Unit | Total |
|----------|--------------|---|------|-------|
| 1 | 2416-1180036 | CULVERT, CONCRETE ROADWAY PIPE, 36 IN. DIA. | LF | 460 |
| 2 | 2416-0100036 | APRONS, CONCRETE, 36 IN. DIA. | EACH | 28 |

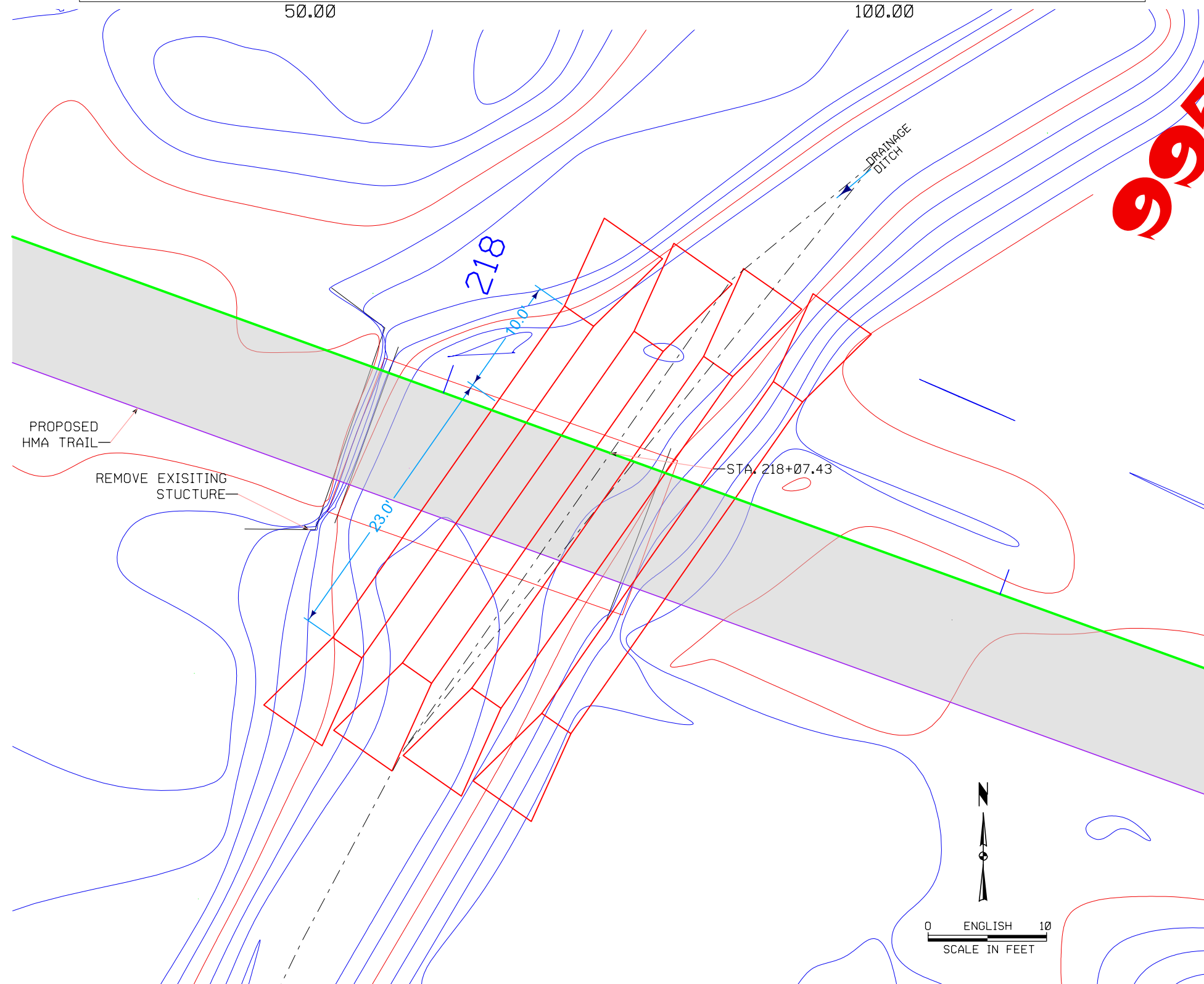


4 - 36' x 32'
RCP CULVERT



LOCATION

RECREATION TRAIL
IN BUTLER COUNTY, IA
T-92N R-18W
SECTION 19 & 30
PITTSFORD TOWNSHIP
LAT: 42.75924
LON: -93.01944



4 - 36' x 33'
RCP CULVERT

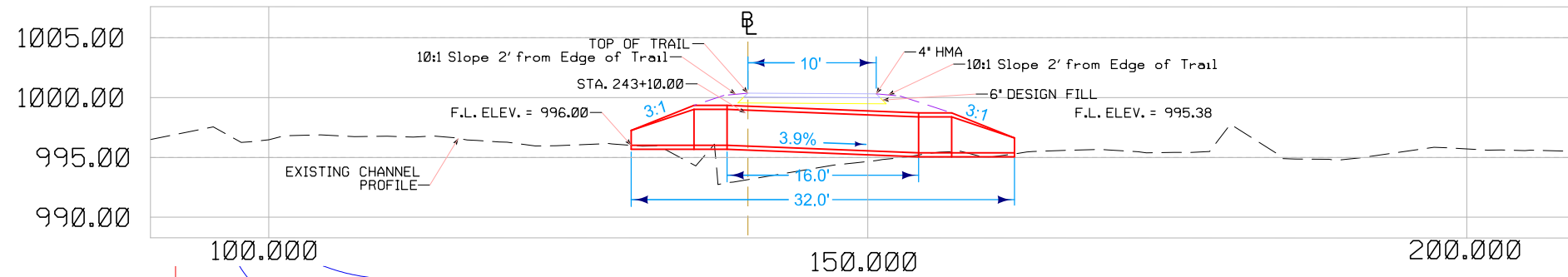
BUTLER COUNTY
DESIGN SHEET NO. 2 OF 3 FILE NO. DESIGN NO.

DESIGN TEAM

BUTLER COUNTY

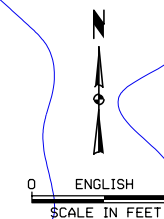
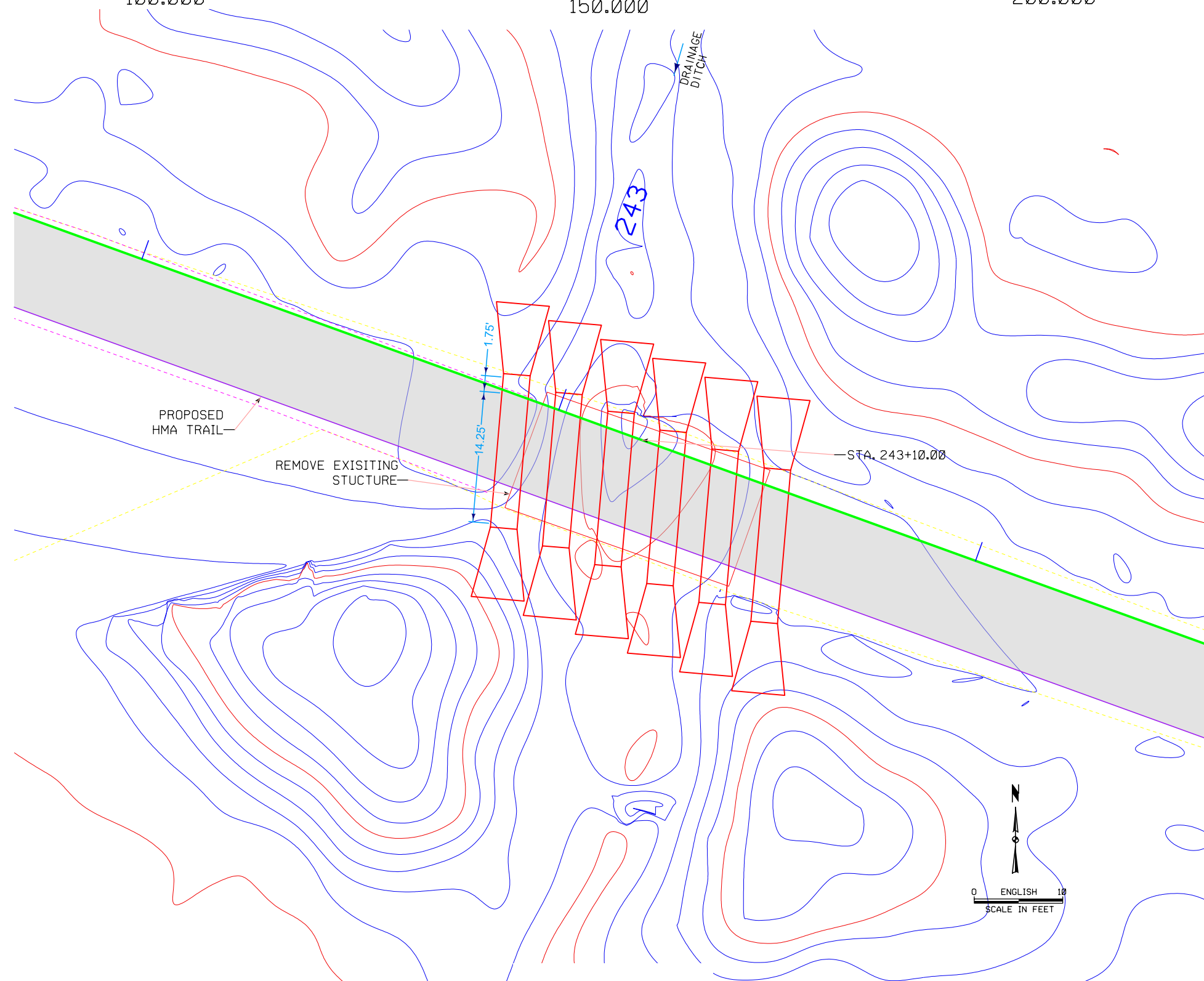
PROJECT NUMBER 9513

SHEET NUMBER V.2



LOCATION

RECREATION TRAIL
IN BUTLER COUNTY, IA
T-92N R-18W
SECTION 30
PITTSFORD TOWNSHIP
LAT: 42.75700
LON: -93.01047



6 - 36' x 32.5'
RCP CULVERT

BUTLER COUNTY
DESIGN SHEET NO. 3 OF 3 FILE NO. DESIGN NO.

| CROSS SECTION VIEW COLOR LEGEND | | | |
|---------------------------------|---------------------------------|--------------------|--------------------------------------|
| Design Color No. | Feature | Design Color No. | Feature |
| Aggregate | | Grading | |
| (64) | Choke Stone | (8) | Behind Curb Cut |
| (42) | Engineering Fabric | (6) | Granular |
| (8) | Flooded Backfill | (13) | Granular Back Fill |
| (92) | Macadam Stone | (48) | Rock Undercut |
| (20) | Modified | (8) | Shoulder Earth Fill |
| (12) | Plowing Shaping | (2) | Side Slopes |
| (14) | Porous Backfill | (226) | Side Slopes Dressing |
| (8) | Revetment Class A | Substrata | |
| (6) | Revetment Class B | (128) | Boulder |
| (62) | Revetment Class C | (209) | Boulder Removed |
| (188) | Revetment Class D | (48) | Broken Weathered |
| (28) | Revetment Class E | (210) | Broken Weathered Removed |
| (12) | Shoulder Special Backfill | (3) | Core Out |
| (12) | Special Backfill | (115) | Core Out Remove Only |
| (20) | Subbase | (195) | Core Out Remove and Replace |
| (20) | Subbase Lower | (203) | Existing Pavement |
| (20) | Subbase Upper | (184) | Existing Pavement Remove Only |
| (118) | Subgrade Treatment | (200) | Existing Pavement Remove and Replace |
| Asphalt | | (6) | Loam |
| (207) | HMA Base Course | (211) | Loam Removed |
| (207) | HMA Interim Course | (80) | Rock |
| (207) | HMA Surface Course | (212) | Rock Removed |
| Bridge | | (4) | Select Sand |
| (0) | Bridge | (214) | Select Sand Removed |
| Concrete | | (3) | Shale |
| (0) | Barrier Concrete | (215) | Shale Removed |
| (0) | Barrier Concrete Footing | (10) | Topsoil |
| (0) | Curb Gutter | (2) | Topsoil Remove Only |
| (48) | Flowable Mortar | (4) | Topsoil Remove and Replace |
| (0) | Median Concrete | Unsuitable / Waste | |
| (0) | PCC Pavement | (3) | Unsuitable Type A |
| (0) | Sidewalk | (216) | Unsuitable Type A Removed |
| Existing | | (13) | Unsuitable Type B |
| (0) | Existing Pavement | (217) | Unsuitable Type B Removed |
| Shoulder | | (11) | Unsuitable Type C |
| (209) | Shoulder HMA | (218) | Unsuitable Type C Removed |
| (0) | Shoulder PCC | (3) | Waste |
| (6) | Shoulder Granular | (219) | Waste Removed |
| Structural | | | |
| (112) | Noise Wall | | |
| (112) | Noise Wall Footing | | |
| (112) | Retaining Wall Back | | |
| (112) | Retaining Wall Back Excavate | | |
| (112) | Retaining Wall Face | | |
| (112) | Retaining Wall Front Excavate | | |
| (112) | Retaining Wall Front Footing | | |
| (112) | Retaining Wall MSE Gutter | | |
| (112) | Retaining Wall Reinforced Earth | | |

CROSS SECTIONS
LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

