

POLK COUNTY

PCC TRAIL
TAP-U-CO77(249)--8I-77

LETTING DATE

JUNE 16, 2026

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.



TRANSPORTATION DEVELOPMENT DIVISION

RECREATIONAL TRAIL PLANS FOR

POLK COUNTY

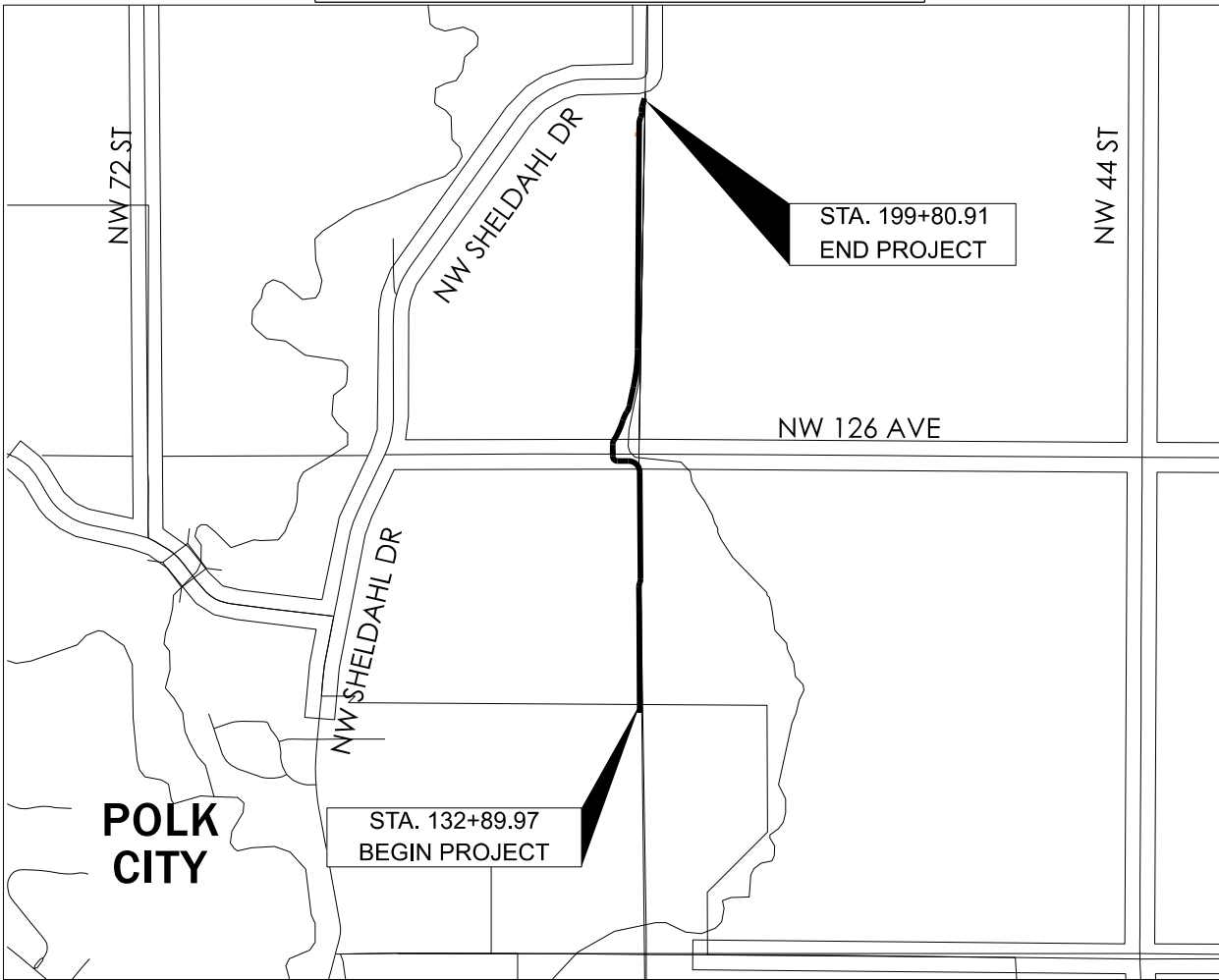
PCC TRAIL

IN POLK COUNTY, A MULTIUSE TRAIL CONNECTION
FROM POLK CITY TO HIGH TRESTLE TRAIL

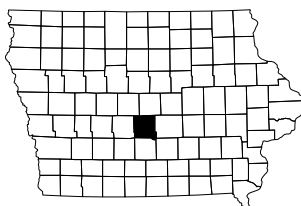
SCALES: As Noted

REFER TO PROPOSAL FORM LIST OF APPLICABLE SPECIFICATIONS

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.



VICINITY MAP



INDEX OF SHEETS

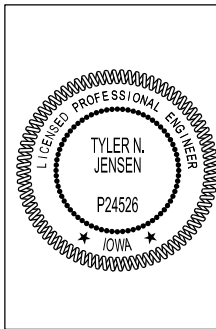
- A.1 TITLE SHEET
- A.2 LEGEND, GENERAL NOTES AND UTILITY CONTACTS
- B.1-B.2 TYPICAL SECTIONS
- C.1-C.12 ESTIMATE REFERENCE INFORMATION, QUANTITIES, AND TABULATIONS
- D.1-D.14 PLAN AND PROFILE SHEETS
- E.1 FIELD ENTRANCE PLAN SHEET
- G.1-G.2 SURVEY SHEETS
- H.1-H.2 RIGHT OF WAY SHEETS
- J.1-J.4 TRAFFIC CONTROL GENERAL NOTES AND TABULATIONS
- J.5 TRAFFIC CONTROL AND STAGING
- L.1 GEOMETRIC AND STAKING INFORMATION
- RC.1-RC.6 EROSION CONTROL TABULATIONS
- RR.1-RR.7 EROSION CONTROL PLAN SHEETS
- S.1-S.2 PEDESTRIAN RAMP AND TABULATIONS SHEET
- W.1-W.43 CROSS SECTIONS

POLK COUNTY CONSERVATION BOARD

This Engineering Document is Approved.

Adam Fendrick
LPA, Polk County Representative

3/11/26
Date



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.

Tyler N. Jensen, P.E. 3/17/26
Date

License Number P24526
My License Renewal Date is December 31, 2027

Pages or sheets covered by this seal:
ALL SHEETS

MILEAGE SUMMARY			
Location	Station	Lin. Ft.	Miles
Trail	132+89.97-161+48.49	2,858.52	0.54
Trail	161+74.89-199+80.91	3,806.02	0.72
Total		6,664.54	1.26

TOTAL SHEETS
99

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

POLK COUNTY, IOWA

TITLE SHEET

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM



Project No: 1241375

Sheet A.1

MARK
Engineer: AMF
Technician: JDS
Checked By: TNU
Date: 12/2/2025
Scale: N.T.S.
Field Bk: Pg:
Project No: 1241375
Sheet A.1

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ORDbVitalWeightPDF_plotig

LEGEND

Features

Spot Elevation
Contour Elevation
Fence (Barbed, Field, Hog)
Fence (Chain Link)
Fence (Wood)
Fence (Silt)
Tree Line
Tree Stump

Deciduous Tree \ Shrub

Coniferous Tree \ Shrub

Communication
Overhead Communication
Fiber Optic
Underground Electric
Overhead Electric
Gas Main with Size
High Pressure Gas Main with Size
Water Main with Size
Sanitary Sewer with Size
Duct Bank
Test Hole Location for SUE w/ID

(*) Denotes the survey quality service level for utilities

Sanitary Manhole

Storm Sewer with Size
Storm Manhole
Single Storm Sewer Intake
Double Storm Sewer Intake
Fire Hydrant
Fire Hydrant on Building
Water Main Valve
Water Service Valve
Well
Utility Pole
Guy Anchor
Utility Pole with Light
Utility Pole with Transformer
Street Light
Yard Light
Electric Box
Electric Transformer
Traffic Sign
Communication Pedestal
Communication Manhole
Communication Handhole
Fiber Optic Manhole
Fiber Optic Handhole
Gas Valve
Gas Manhole
Gas Apparatus
Fence Post or Guard Post
Underground Storage Tank
Above Ground Storage Tank
Sign
Satellite Dish
Mailbox
Soil Boring

Existing

93.0
-93-
-x-x-
-//--
-o-
-w-
-a-
-1-
C(*)
OC(*)
FO(*)
E(*)
OE(*)
4" G(*)
4" HPG(*)
8" W(*)
8" S(*)
DUCT(*)
12" ST

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

UTILITY NOTES:

- THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE UTILITY COMPANIES WITH RESPECT TO RELOCATING AND CONSTRUCTING THEIR FACILITIES. CALL IOWA ONE CALL FOR UTILITY LOCATIONS 48 HOURS BEFORE CONSTRUCTION, 1-800-292-8989.
- BEFORE STARTING CONSTRUCTION IN EACH STAGE, THE CONTRACTOR SHALL EXCAVATE ALL UTILITIES WHICH MAY BE IN CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR PROVIDED SURVEYOR SHALL OBTAIN ELEVATIONS OF THE UTILITIES AND NOTIFY THE ENGINEER.
- THE COST OF STAGING CONSTRUCTION FOR UTILITY INSTALLATION, PROVIDING TEMPORARY SUPPORTS FOR ALL UTILITIES WITH ASSISTANCE FROM AFFECTED UTILITY COMPANY, AND ALL COSTS INVOLVED IN COORDINATING WITH UTILITIES SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THE CONTRACT BID PRICE OF THAT UTILITY, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- THE CONTRACTOR SHALL EXERCISE CAUTION AND USE CONSTRUCTION METHODS AND EQUIPMENT TO COMPLETE THE WORK WITHOUT DAMAGING UTILITIES.
- THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
- IT IS ANTICIPATED THAT UTILITY RELOCATION WORK BY VARIOUS UTILITY COMPANIES WILL BE DONE IN CONJUNCTION WITH CONSTRUCTION OF THIS PROJECT. CONTRACTOR IS REQUIRED TO COORDINATE AND COOPERATE WITH THESE UTILITY COMPANITES DURING CONSTRUCTION.

NOTES

- BUILDING LINES AND CORNERS ARE FOR USE IN PREPARING CIVIL SITE PLAN DOCUMENTS. BUILDING CORNERS AND BUILDING LINES SHOULD BE SPECIFICALLY VERIFIED, AS NECESSARY, PRIOR TO DESIGN FOR CONSTRUCTION OF ANY PROPOSED EXPANSION OR CONNECTION OF BUILDING COMPONENTS.
- FOR CLARITY PURPOSES, SURVEY SPOT ELEVATIONS ARE NOT SHOWN ON THIS SURVEY, BUT ARE CONTAINED WITHIN THE DIGITAL CADD FILES.
- FOR THE PURPOSE OF THIS SURVEY, STORM SEWER, SANITARY SEWER AND WATER MAIN LINES ARE ASSUMED TO FOLLOW A STRAIGHT LINE FROM STRUCTURE TO STRUCTURE.
- UTILITY SERVICE LINES TO BUILDINGS ARE APPROXIMATE ONLY. AN INTERNAL BUILDING INVESTIGATION, EXCAVATION AND/OR SUBSURFACE LOCATING/DESIGNATING WOULD NEED TO BE PERFORMED TO DETERMINE THE LOCATION OF SERVICES ENTERING THE BUILDING.
- UNDERGROUND PIPE MATERIALS AND SIZES ARE BASED UPON VISIBLE EVIDENCE VIEWED FROM ACCESS MANHOLES/STRUCTURES. DUE TO THE CONFIGURATION AND/OR CONSTRUCTION OF THE STRUCTURE, IT MAY BE DIFFICULT TO ACCURATELY DETERMINE THE PIPE MATERIAL AND/OR SIZE. THE SURVEYOR WILL USE THEIR JUDGMENT AND EXPERIENCE TO ATTEMPT TO DETERMINE, BUT COMPLETE ACCURACY CANNOT BE GUARANTEED.
- BOUNDARY LINES SHOWN ON THE EXISTING SITE SURVEY ARE TO FACILITATE DESIGN OR CONCEPT NEEDS AND ENABLE CREATION OF SAID CONSTRUCTION DOCUMENTS. THESE LINES DO NOT CONSTITUTE A CERTIFIED BOUNDARY SURVEY AND MISSING MONUMENTS WILL NOT BE SET.

UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 552101270 AND 552407260.

FO1-FIBER OPTIC	LUMEN SADIE HULL 918-547-0147 sadie.hull@lumen.com
FO19-FIBER OPTIC	HUXLEY COMMUNICATIONS COOPERATIVE LEVI BAPPE 515-597-2281 design-locates@huxleycommunications.net
CLEAR PER MAP RECEIVED	MIDAMERICAN ENERGY Jaime Neer 515-252-6972 MECDSDMDesignLocates@midamerican.com
NO RESPONSE	MI-FIBER JUSTIN MILLER 515-897-8802 jmilller@mi-fiber.net
E1-UNDERGROUND ELECTRIC OE1-OVERHEAD ELECTRIC	MIDLAND POWER COOPERATIVE ENG DEPT 515-386-4111 ENG@MIDLANDPOWER.COOP
CLEAR PER EMAIL	CITY OF POLK CITY Jenny Coffin 515-984-6233 jcoffin@polkcityia.gov
CLEAR PER EMAIL	MEDIACOM JERRY BROUGHTON 845-587-2521 JBROUGHTON@MEDIACOMCCC.COM
NO RESPONSE	SOUTHEAST POLK RURAL WATER DISTRICT Ed Clark 515-323-6244 onecallmaps@dmww.com
FO3-FIBER OPTIC	WINDSTREAM COMMUNICATIONS LOCATE DESK 800-289-1901 LOCATE.DESK@WINDSTREAM.COM
W1-WATER MAIN	DES MOINES WATER WORKS

TOPOGRAPHY DISCLAIMER

NOTE: TOPOGRAPHY SHOWN WAS OBTAINED FROM EXISTING PUBLIC RECORD. FROM THE USGS TOPOGRAPHY MAPS, AND THROUGH REVIEW OF AERIAL PHOTOGRAPHS MAPS. CONTOURS HAVE BEEN INTERPOLATED FOR PRELIMINARY CONCEPT PURPOSES TO DEMONSTRATE THE GENERAL CHARACTER OF GRADE, AND SLOPE AND, THEREFORE, IS NOT ACCURATE FOR DETAILED DESIGN. FIELD TOPOGRAPHY SURVEY WILL BE REQUIRED PRIOR TO FINAL DESIGN.

GENERAL NOTES:

- COMPLETE ALL CONSTRUCTION IN ACCORDANCE WITH THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (SERIES 2025), THESE PROJECT PLANS, AND CONTRACT DOCUMENTS.
- NOTIFY THE OWNER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION AND DUST POLLUTION. COMPLY WITH THE SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE AND ALL LOCAL ORDINANCES AND WITH THE STORM WATER POLLUTION PREVENTION PLAN.
- DO NOT RESTRICT PUBLIC ACCESS ON THE ADJACENT TRAIL DURING CONSTRUCTION. KEEP THE TRAIL CLEAR OF EQUIPMENT AND MATERIALS AT ALL TIMES. PROVIDE PLANKING OR GRANULAR SURFACING AS NECESSARY TO KEEP TRAIL AND SIDEWALK OPEN (INCIDENTAL). CLEARLY MARK TRAIL CLOSURES AND BARRICADE AS NECESSARY TO PROTECT THE WORK AREA.
- PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETED.
- NOTIFY UTILITY COMPANIES PRIOR TO COMMENCING WORK. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S CARELESSNESS AT THE CONTRACTOR'S EXPENSE.
- ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS. ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO REPAIR TILE LINES ENCOUNTERED IS CONSIDERED INCIDENTAL TO THE PROJECT.
- DO NOT RESTRICT DRAINAGE CHANNELS AND PROTECT ALL EXISTING DRAINAGE STRUCTURES UNLESS OTHERWISE NOTED. CONTRACTOR IS FULLY LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN PROVIDING FOR THE HANDLING OF STORM WATER FLOW DURING CONSTRUCTION.
- IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
- THE CONTRACTOR SHALL PROVIDE WASTE AREAS OR DISPOSAL SITES FOR WASTE MATERIAL REMOVED FROM THE PROJECT WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK. NO EXTRA PAYMENTS WILL BE MADE FOR MATERIAL HAULED TO THESE SITES. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. DO NOT PLACE WASTE MATERIAL WITHIN THE RIGHT OF WAY. KEEP CONSTRUCTION DEBRIS AND DIRT OFF OF ADJACENT PROPERTIES AND STREETS.
- THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND TREES OUTSIDE OF THE CONSTRUCTION LIMITS.
- THE TOP SIX INCHES OF ALL DISTURBED AREAS SHALL BE FREE OF ROCK AND DEBRIS AND SHALL BE SUITABLE FOR THE ESTABLISHMENT OF VEGETATION, SUBJECT TO THE APPROVAL OF THE OWNER.
- AVOID DAMAGE TO PRIVATE PROPERTY AND ALL EXISTING PAVEMENT NOT CALLED OUT FOR REMOVAL DURING CONSTRUCTION. REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S CARELESSNESS AT THE CONTRACTOR'S EXPENSE.
- CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO OCCUR BETWEEN 7:00 A.M. AND 7:00 P.M. MONDAY THROUGH SATURDAY. NO CONSTRUCTION ACTIVITIES ARE ALLOWED ON SUNDAYS WITHOUT APPROVAL OF THE OWNNER.
- CONTRACTOR TO INSTALL TRAFFIC CONTROL SIGNAGE FOR ALL CLOSURES, DETOURS OR ANY WORK AFFECTING EXISTING SIDEWALKS AND ROADWAYS. ALL SIGNAGE SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, AS ADOPTED BY THE IOWA DOT PER 761 OF THE IOWA ADMINISTRATIVE CODE 9IAC), CHAPTER 130. THE CONTRACTOR MUST PROVIDE 10 CALENDAR DAYS ADVANCE NOTIFICATION OF PEDESTRIAN PATH CLOSURE TO THE IOWA DEPARTMENT OF THE BLIND (RICHARD.SOREY@BLIND.STATE.IA.US), THE NATIONAL FEDERATION OF THE BLIND OF IOWA (NFBIOWA@QUESTOFFICE.NET), AND THE PROJECT ENGINEER.
- PROTECT EXISTING DRIVEWAYS AND STREET SURFACING UNLESS SPECIFICALLY NOTED OTHERWISE. REMOVE AND REPLACE DAMAGED SURFACING WITHOUT ADDITIONAL COMPENSATION. PROVIDE AND MAINTAIN TEMPORARY GRANULAR SURFACING AS NECESSARY TO MAINTAIN ACCESS ON SITE.
- THE CONTRACTOR IS EXPECTED TO PROVIDE ADEQUATE PERSONNEL AND EQUIPMENT TO PERFORM WORK WITHIN SPECIFIED TIME OF CONSTRUCTION. ONCE WORK WITHIN A SPECIFIED AREA HAS COMMENCED THE CONTRACTOR SHALL PUT FULL AND CONTINUOUS WORKFORCE TO COMPLETE THE AREA AS SOON AS POSSIBLE TO MINIMIZE INCONVENIENCE TO TRAVELING PUBLIC, AND TO ADJACENT PROPERTY OWNERS.
- ALL HOLES RESULTING FROM OPERATIONS OF THE CONTRACTOR, INCLUDING REMOVAL OF GUARDRAIL POSTS, FENCE POSTS, UTILITY POLES, OR FOUNDATION STUDIES, SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE AS DIRECTED BY THE ENGINEER TO PREVENT FUTURE SETTLEMENT. THE VOIDS SHALL BE FILLED AS SOON AS PRACTICAL - PREFERABLY THE DAY CREATED AND NOT LATER THAN THE FOLLOWING DAY. ANY PORTION OF THE RIGHT-OF-WAY OR PROJECT LIMITS (INCLUDING BORROW AREAS AND OPERATION SITES) DISTURBED BY ANY SUCH OPERATIONS SHALL BE RESTORED TO AN ACCEPTABLE CONDITION. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL.
- LENGTHS OF STORM SEWER PIPE SHOWN ON THE PLANS ARE DIMENSIONED FROM THE WALL OF THE STRUCTURE TO THE WALL OF THE STRUCTURE AND DO NOT INCLUDE FLARED END SECTIONS.
- CONCRETE WASHOUTS ARE CONSIDERED INCIDENTAL TO PROJECT. COORDINATE WASHOUT LOCATION WITH OWNER AND ENGINEER PRIOR TO INSTALLATION.
- STABILIZED CONSTRUCTION ENTRANCES ARE CONSIDERED INCIDENTAL TO PROJECT. STABILIZED CONSTRUCTION ENTRANCES SHALL MEET THE REQUIREMENTS OF EC-303.
- THE CONTRACTOR SHALL CLEAN ALL SURFACES PRIOR TO OPENING THE PROJECT TO THE PUBLIC. PICKUP BROOM OR STREET SWEEPER THAT CREATES MINIMAL AMOUNT OF DUST SHALL BE USED FOR CLEANING. ALL COST FOR CLEANING SHALL BE INCIDENTAL TO THE CONTRACT.
- CONSTRUCTION SURVEY WILL BE PROVIDED BY OWNER. ANY ADDITIONAL STAKING OR STAKING THAT IS DESTROYED DUE TO CONSTRUCTION MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION STAKING WILL BE PROVIDED AS FOLLOWS: ONE SET OF STAKES FOR ROW AND/OR TEMPORARY EASEMENTS (150' INTERVALS AND POINTS OF DEFLECTION); ONE SET OF STAKES FOR GRADING LIMIT PERIMETER (100' INTERVALS); ONE SET OF STAKES FOR TRAIL GRADING (SINGLE SIDE OR CENTERLINE TRAIL OFFSETS TO TOP OF SLAB ON 50-FT INTERVALS); ONE SET OF STAKES FOR TRAIL DITCH GRADING (CENTERLINE DITCH OFFSETS WITH ELEVATIONS ON 50-FT INTERVALS); ONE SET OF STAKES FOR TRAIL PAVING (SINGLE SIDE OFFSETS TO TOP OF SLAB ON 25-FT INTERVALS); ONE SET OF STAKES FOR DRIVEWAY CROSSING PAVING (CORNER OFFSETS TO TOP OF SLAB); ONE SET OF STAKES FOR STORM SEWER/SUBDRAIN PIPE AND STRUCTURES (HORIZONTAL OFFSETS WITH FLOWLINE ELEVATIONS). OWNER PROVIDED CONSTRUCTION STAKING WILL BE LIMITED TO A MAXIMUM OF 10 TOTAL SITE VISITS TO COMPLETE THE WORK.

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

LEGEND, GENERAL NOTES AND UTILITY CONTACTS POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM



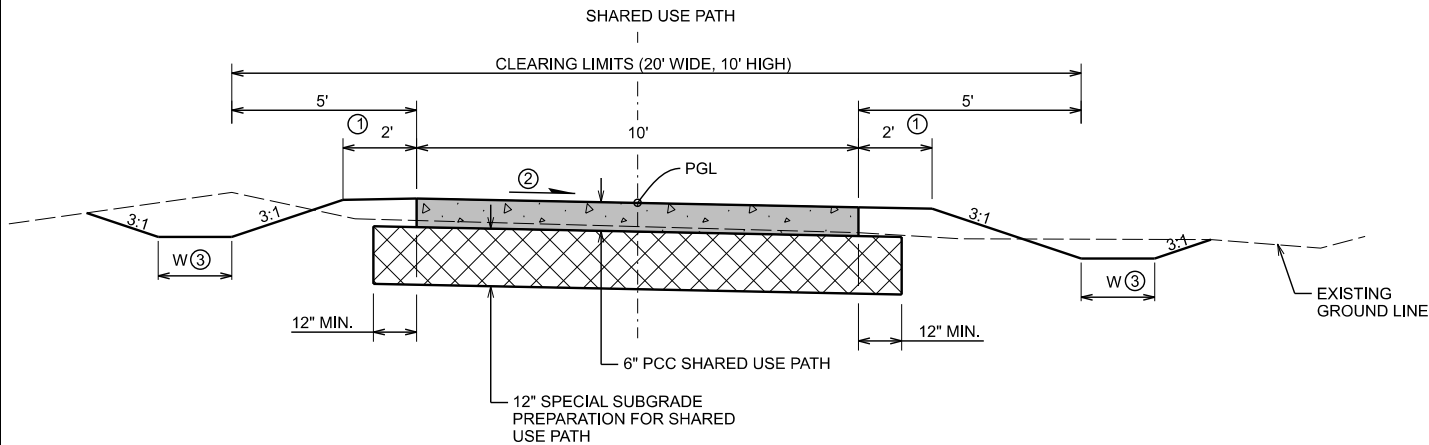
Project No: 1241375

Sheet A.2

MARK
Engineer: AMF
Technician: JDS
DOT: TAP-LC077(249)-8-17
Project No: 1241375
Sheet A.2

BY
DATE
1"= 400'
Scale: 1"= 400'
Checked By: TNJ
Date: 12/2/2025
Field Bk: Pg: 1

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DESCRIPTION	LOCATION		DITCH WIDTH ③
	STATION TO STATION		
TRAIL	132+89.97	142+20.00	NO DITCH
TRAIL	142+20.00	142+40.00	RIGHT DITCH, 3'
TRAIL	142+40.00	146+20.00	NO DITCH
TRAIL	146+20.00	157+80.00	RIGHT DITCH, 2'
TRAIL	157+80.00	158+80.00	NO DITCH
TRAIL	158+71.00	160+07.94	LEFT DITCH, 2'
TRAIL	260+07.94	260+75.00	LEFT DITCH, 2'
TRAIL	262+25.00	263+48.93	LEFT DITCH, 2'
TRAIL	163+38.55	164+00.00	LEFT DITCH, 2'
TRAIL	164+00.00	187+75.00	LEFT DITCH, 5'
TRAIL	184+15.00	193+50.00	RIGHT DITCH, 2'
TRAIL	187+75.00	193+50.00	NO DITCH
TRAIL	193+50.00	197+50.00	RIGHT DITCH, 2'
TRAIL	197+50.00	199+80.91	NO DITCH

GENERAL NOTES:

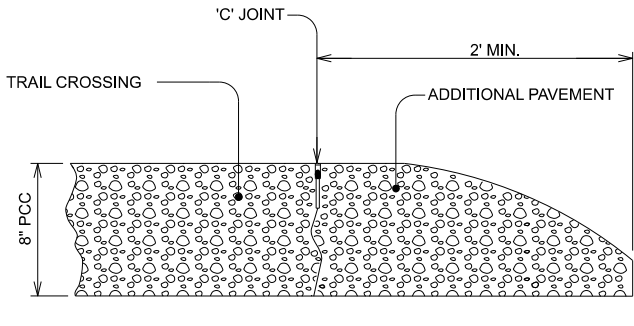
- NORMAL SECTION SHOWN MAY BE MODIFIED APPROPRIATELY IN AREAS OF DRAINAGE PIPES OR OTHER LOCATIONS SPECIFICALLY DESIGNATED BY THE ENGINEER. REFER TO CROSS SECTIONS FOR ADDITIONAL INFORMATION. FIELD ADJUSTMENT CAN BE MADE TO ENSURE PROPER DRAINAGE. COORDINATE WITH ENGINEER.

KEYED NOTES:

- 2% (OR FLATTER) SLOPE 2' MIN. FROM EDGE OF TRAIL.
- CROSS SLOPE SHALL BE 1.5% TARGET, 2% MAXIMUM. UNIFORM TRANSITION BETWEEN CROSS SLOPE DIRECTION, REFER TO D SHEETS.
- DITCH DEPTH AND SHAPE VARY. REFER TO D SHEETS FOR DITCH PROFILE AND CROSS SECTIONS FOR ADDITIONAL DETAILS OF DITCHES AND BACKSLOPES

1
B.1 TRAIL TYPICAL SECTION

NO SCALE

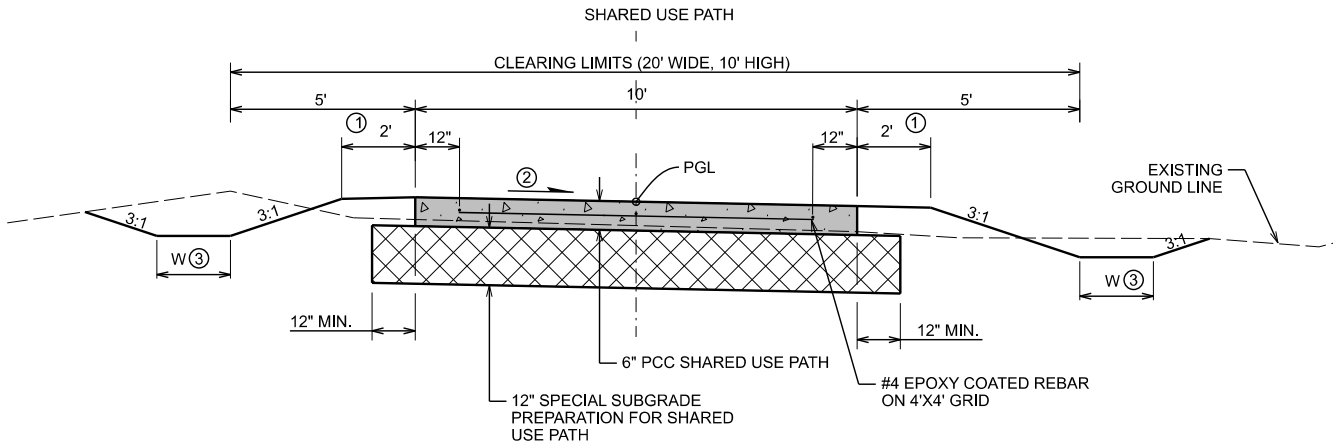


GENERAL NOTES:

- PAVEMENT HEADER IS CONSIDERED INCIDENTAL TO 8" PCC RECREATIONAL TRAIL ITEM.

3
B.1 PAVEMENT HEADER DETAIL

NO SCALE



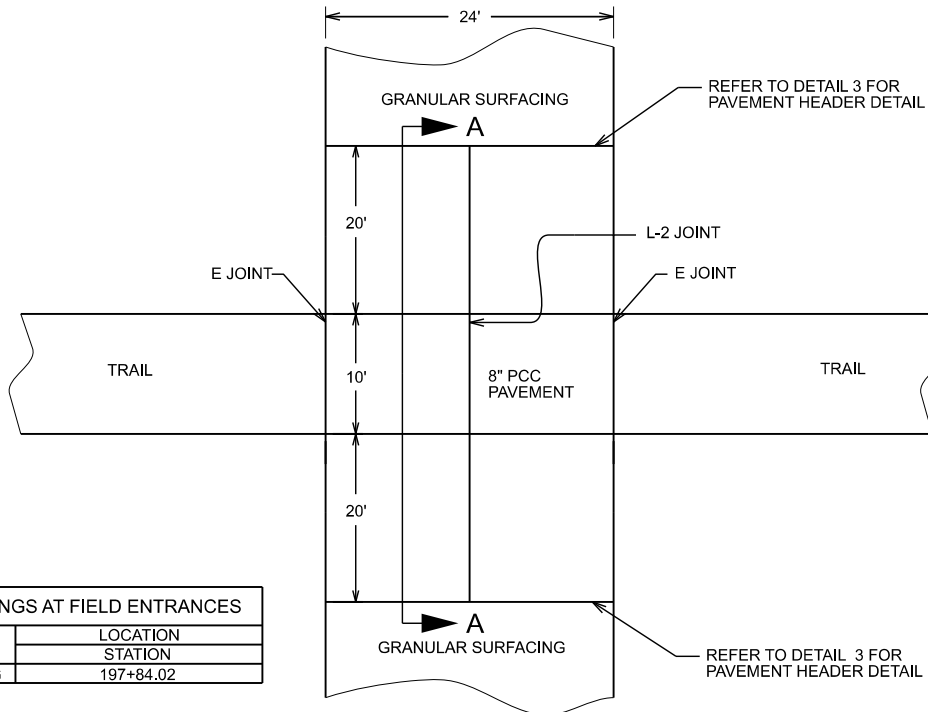
DESCRIPTION	LOCATION	
	STATION TO STATION	
TRAIL	158+69.93	158+89.63
TRAIL	261+37.13	261+57.13
TRAIL	172+24.28	172+54.35
TRAIL	183+84.35	184+24.35
TRAIL	195+84.35	196+14.35

GENERAL NOTES:

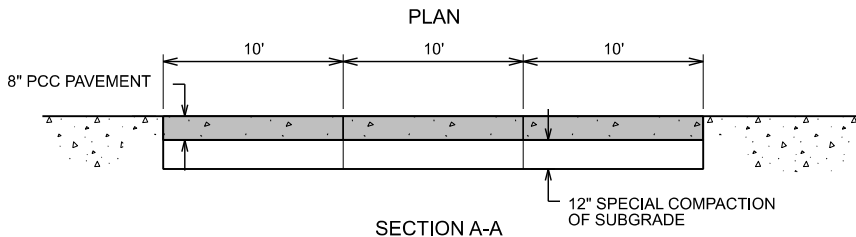
- NORMAL SECTION SHOWN MAY BE MODIFIED APPROPRIATELY IN AREAS OF DRAINAGE PIPES OR OTHER LOCATIONS SPECIFICALLY DESIGNATED BY THE ENGINEER. REFER TO CROSS SECTIONS FOR ADDITIONAL INFORMATION. FIELD ADJUSTMENT CAN BE MADE TO ENSURE PROPER DRAINAGE. COORDINATE WITH ENGINEER.

2
B.1 TYPICAL SECTION FOR REINFORCED PCC SHARED USE PATH

NO SCALE



TRAIL CROSSINGS AT FIELD ENTRANCES	
DESCRIPTION	LOCATION STATION
FIELD CROSSING	197+84.02



4
B.1 TYPICAL TRAIL CROSSING AT FIELD ENTRANCE

NO SCALE

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

TYPICAL SECTIONS AND DETAILS

POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM



Project No: 1241375

Sheet B.1

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNJ	Scale: 1"= 20'	
Technician: JDS	Date: 12/2/2025	Field Bk:	
DOT TAP-LC077(249)-8/77			Project No: 1241375
Sheet B.1			

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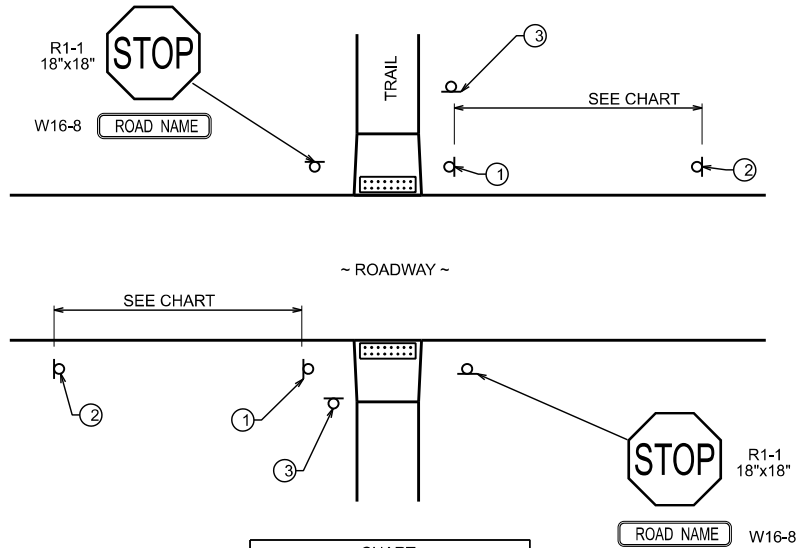
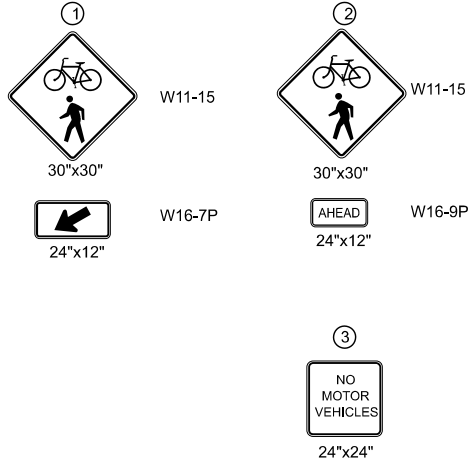
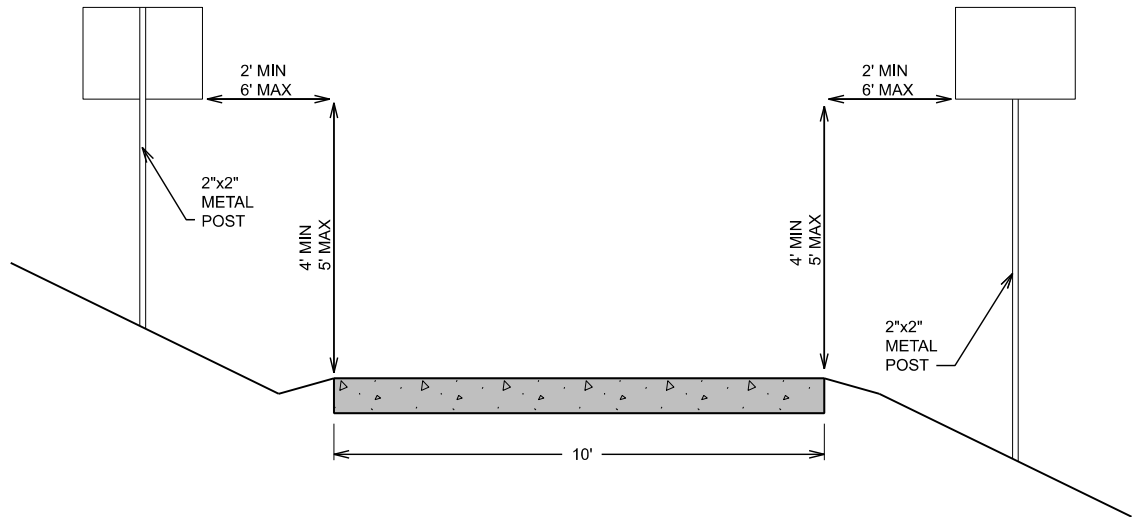


CHART	
SPEED LIMIT	DISTANCE
40 MPH	305 FT.
45 MPH	360 FT.
50 MPH	425 FT.
55 MPH	495 FT.

ROAD CROSSINGS
N.W. 126TH AVENUE

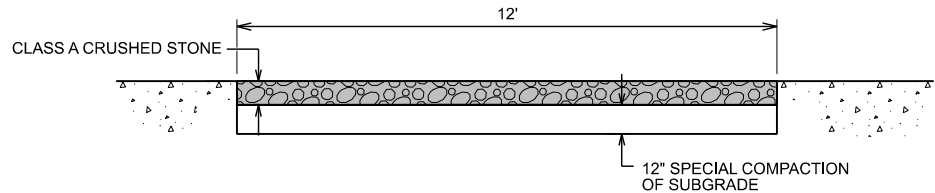


COORDINATE WITH ENGINEER PRIOR TO ORDERING AND INSTALLING SIGNS.

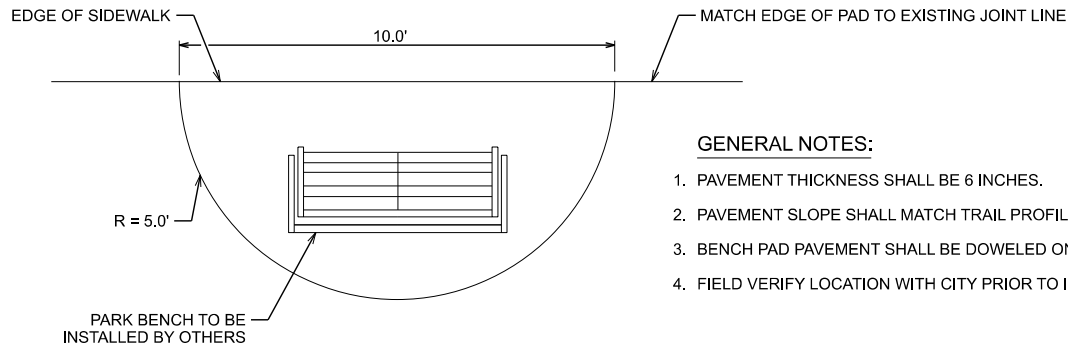


2
B.2 SIGN PLACEMENT
NO SCALE

1
B.2 SIGN PLACEMENT INFORMATION
NO SCALE



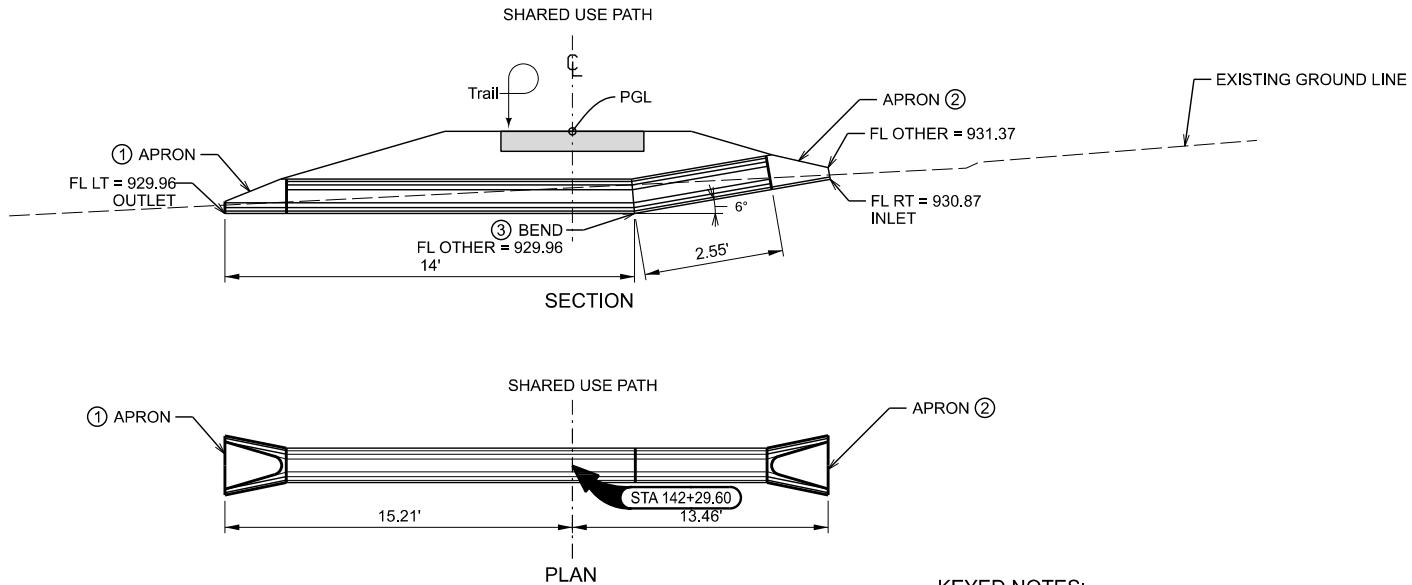
3
B.2 TYPICAL GRANULAR SURFACING PLACEMENT DETAIL
NO SCALE



GENERAL NOTES:

1. PAVEMENT THICKNESS SHALL BE 6 INCHES.
2. PAVEMENT SLOPE SHALL MATCH TRAIL PROFILE.
3. BENCH PAD PAVEMENT SHALL BE DOWELED ONTO EXISTING TRAIL.
4. FIELD VERIFY LOCATION WITH CITY PRIOR TO INSTALLATION.

4
B.2 CONCRETE BENCH PAD DETAIL
NO SCALE



KEYED NOTES:

- 1 REFER TO IOWA DOT STANDARD ROAD PLAN DR-201.
- 2 REFER TO IOWA DOT STANDARD ROAD PLAN DR-205.
- 3 REFER TO IOWA DOT STANDARD ROAD PLAN DR-141.

5
B.2 REINFORCED CONCRETE PIPE CULVERT LETDOWN STRUCTURE (DR-611) - STA 142+29.60
NO SCALE

POLK CITY JUNCTION TO HIGH TRETTLE TRAIL CONNECTOR		POLK COUNTY, IOWA		Sheet B.2	
TYPICAL SECTIONS AND DETAILS		SNYDER & ASSOCIATES, INC.		Project No: 1241375	
2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	
SNYDER & ASSOCIATES		SNYDER & ASSOCIATES		SNYDER & ASSOCIATES	
Project No: 1241375		Project No: 1241375		Project No: 1241375	
Sheet B.2		Sheet B.2		Sheet B.2	

ESTIMATED PROJECT QUANTITIES					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2101-0850001	CLEARING AND GRUBBING	ACRE	0.70	
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	980.00	
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	2759.00	
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	3391.00	
5	2123-7450020	SHOULDER FINISHING, EARTH	STA	142.00	
6	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	TON	158.00	
7	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.	EA	10.00	
8	2416-0102218	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 18 IN.	EA	4.00	
9	2416-0102224	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 24 IN.	EA	2.00	
10	2416-0102230	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 30 IN.	EA	4.00	
11	2416-1160015	CULVERT, CONCRETE ENTRANCE PIPE, 15 IN.	LF	98.00	
12	2416-1190218	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	30.00	
13	2416-1190224	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	20.00	
14	2416-1190230	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	46.00	
15	2417-0225015	APRONS, METAL, 15 IN. DIA.	EA	3.00	
16	2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA.	LF	69.50	
17	2435-0251224	SW-512, 24 IN.	EA	2.00	
18	2502-8212208	SUBDRAIN, PERFORATED PLASTIC PIPE, 8 IN. DIA.	LF	567.00	
19	2502-8221305	SUBDRAIN OUTLET, DR-305	EA	1.00	
20	2507-6800061	REVTMENT, CLASS E	TON	63.00	
21	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY	7246.90	
22	2511-0302800	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 8 IN.	SY	163.00	
23	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	71.00	
24	2511-7528101	DETECTABLE WARNINGS	SF	40.00	
25	2528-8445110	TRAFFIC CONTROL	LS	1.00	
26	2528-8445113	FLAGGERS	EA	10.00	
27	2533-4980005	MOBILIZATION	LS	1.00	
28	2599-9999010	('LUMP SUM' ITEM) SIGNS	LS	1.00	
29	2599-9999018	('SQUARE YARDS' ITEM) RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN., REINFORCED	SY	155.70	
30	2601-2634100	MULCHING	ACRE	9.60	
31	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	8.10	
32	2601-2636015	NATIVE GRASS SEEDING	ACRE	7.10	
33	2601-2636041	SEEDING AND FERTILIZING	ACRE	1.00	
34	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	552.00	
35	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	9.60	
36	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	110.40	
37	2601-2643300	MOBILIZATION FOR WATERING	EA	3.00	
38	2602-0000020	SILT FENCE	LF	7602.00	
39	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	7602.00	
40	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	7602.00	
41	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	1122.00	
42	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	1122.00	
43	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EA	3.00	
44	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EA	2.00	

ESTIMATE REFERENCE INFORMATION			100_04A 6/2/23
Item No.	Item Code	Description	
1	2101-0850001	CLEARING AND GRUBBING	
		Refer to Tab 110-17 for locations and details. Trees to be cut down by Owner. Contractor is responsible for removal of all remaining vegetation, previously felled trees, and all grubbing. All material removed shall become property of the Contractor and removed from the project site. Owner and Engineer to approve any additional tree removals required for construction. Item includes compensation for all labor, equipment, and materials necessary to prune trees and brush and to properly dispose of material removal off site.	
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	
		Total fill 30% shrink of 4033 CY minus total cut of 2759 CY = 1274 CY of project fill 30% shrink. Removal of shrinkage equals 980 CY of Embankment-In-Place, Contractor Furnished. Payment will be based on contract quantity. Refer to W Sheets for trail cross sections. Overhaul will not be measured or paid for, but shall be considered incidental to this bid item.	
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	
		Quantity is based on varied cut depths of approximately 6 inches over vegetative disturbed areas. Topsoil placement to be a uniform 6 inches over all disturbed areas. Quantity includes 3391 CY of strip and 2798 CY of placement 30% shrink for a Contractor waste of 593 CY. Excess topsoil may be wasted on site as directed by the Engineer. No payment shall be made for hauling material offsite. Payment will be based on contract quantity.	
5	2123-7450020	SHOULDER FINISHING, EARTH	
		Refer to typical sections on B Sheets. Shoulder area shall be free of large rocks and debris. There will be no additional compensation for overhaul of excess materials. All material for finishing shall be from Items 2, 3, and 4.	
6	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	
		Refer to Tab 102-03 and the E Sheet for locations and additional information. Installation thickness assumed as 6 inches at all locations.	
7	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.	
8	2416-0102218	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 18 IN.	
9	2416-0102224	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 24 IN.	
10	2416-0102230	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 30 IN.	
		Refer to Tab 104-03 and D Sheets for locations and details. Concrete footing shall be installed on the end of all aprons and will be incidental to the pipe apron items. Precast footings are not allowed. Certified plant inspection is required for footing construction item. End walls (DR-205) are considered incidental to this item.	
11	2416-1160015	CULVERT, CONCRETE ENTRANCE PIPE, 15 IN.	
12	2416-1190218	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 18 IN.	
13	2416-1190224	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 24 IN.	
14	2416-1190230	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 30 IN.	
		Refer to Tab 104-03 and D Sheets for locations and details. All RCP culverts require pipe joints to be constructed with O-ring or profiled gaskets with pipe segments being tied. Pipe embedment, bedding and backfill shall be per Iowa DOT Standard Road Plan DR-101 and DR-104. Pipe bends (DR-141) are considered incidental to this item.	
15	2417-0225015	APRONS, METAL, 15 IN. DIA.	
		Refer to Tab 104-03 and D Sheets for locations and details. Installation shall conform to Iowa DOT Standard Road Plans DR-103 and DR-203.	
16	2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA.	
		Refer to Tab 104-03 and D Sheets for locations and details. 16 Gage Pipe shall be used. Pipe embedment, bedding and backfill shall be per Iowa DOT Standard Road Plan DR-101 and DR-104.	

ESTIMATE REFERENCE INFORMATION			100_04A 6/2/23
Item No.	Item Code	Description	
17	2435-0251224	SW-512, 24 IN.	
		Refer to Tab 104-05A and D Sheets for locations and details. Item includes SW-604 Type 3B Casting.	
18	2502-8212208	SUBDRAIN, PERFORATED PLASTIC PIPE, 8 IN. DIA.	
19	2502-8221305	SUBDRAIN OUTLET, DR-305	
		Refer to D Sheets and Tab 104-05C for locations and details.	
20	2507-6800061	REVETMENT, CLASS E	
		Refer to D Sheets and Tab 100-23 for locations and details.	
21	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	
22	2511-0302800	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 8 IN.	
		Refer to B Sheets for typical sections. Refer to Tab 300-99 and D Sheets for locations and details. Use Class C concrete. Slip-form paving is required for the trail. All damage to the trail occurring prior to final acceptance shall be repaired by the Contractor. No additional compensation will be allowed for this work. This item requires certified plant inspection.	
23	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	
		Refer to B Sheets for typical section. Special compaction of subgrade to be used under all trail pavement and granular surfacing.	
24	2511-7528101	DETECTABLE WARNINGS	
		Refer to Tab 300-99 and S Sheet for locations and details. Detectable warnings shall be natural finish cast iron panels.	
25	2528-8445110	TRAFFIC CONTROL	
26	2528-8445113	FLAGGERS	
		Refer to J Sheets for locations and details.	
27	2533-4980005	MOBILIZATION	
		Includes all costs associated with mobilization for entire project.	
28	2599-9999010	('LUMP SUM' ITEM) SIGNS	
		Refer to sign placement details on B Sheets. Construction methods and materials shall comply with Section 2524 of the Specifications. All signs will be Type A signs. Sign posts shall consist of pre-galvanized 12-gage steel tubing, conforming to the standard specification for Hot-Rolled Carbon Sheet Steel, structural quality on 1 centers, and generally square in shape. Signs along the trail may be directly embedded into the ground. Concrete footing will not be required for sign installations. Signing work shall be measured as lump sum. Contract unit price for lump sum shall include all labor, equipment, and materials necessary to furnish and install signs as detailed herein and specified in the contract documents.	
29	2599-9999018	('SQUARE YARDS' ITEM) RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN., REINFORCED	
		Refer to B Sheets for details and D Sheets for locations. Construction shall comply with Section 2301 of the Iowa Department of Transportation Standard Specification for Highway and Bridge Construction, Series 2024, and detailed in the plans. Use Class C concrete. Certified plant inspection is required for this item.	
		Method of Measurement: The Engineer will determine the square yard of Recreational Trail, Portland Cement Concrete, 6 In., Reinforced by measuring the length and width of paving to the nearest 0.1 foot. The calculated area will be rounded to the nearest whole square yard.	
		Basis of Payment: The Contractor will be paid the contract unit price per square yard for the Recreational Trail, Portland Cement Concrete, 6 In., Reinforced for the quantity measured and calculated above, and constructed per plan requirements. This payment shall be considered full compensation for all labor, equipment, and materials necessary to complete the work as detailed herein and specified in the Contract Documents.	

ESTIMATE REFERENCE INFORMATION			100_04A 6/2/23
Item No.	Item Code	Description	
30	2601-2634100	MULCHING	
		Quantity included for disturbed area within construction limits. Mulching is intended to be used for any temporary seeding that is needed to comply with SWPPP and NPDES.	
31	2601-2634105	MULCHING, BONDED FIBER MATRIX	
		Quantity included for disturbed area within construction limits. Mulching with Binded Fiber Matrix is to be used for all permanent seeding.	
32	2601-2636015	NATIVE GRASS SEEDING	
		Includes quantity for restoration of all areas within the construction limits as shown in the plans. Refer to RR Sheets for the seeding plan. Bonded Fiber Matrix shall be used as a mulching agent.	
33	2601-2636041	SEEDING AND FERTILIZING	
		Type 1 Mix to be applied in 3 ft width along both sides of the trail unless otherwise specified. Bonded Fiber Matrix shall be used as a mulching agent. Refer to RR Sheets for the seeding plan.	
34	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	
		Refer to RR Sheets and Tab 100-22 for locations and details.	
35	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	
		Quantity included for disturbed area within construction limits. Item is intended to be used for any temporary seeding that is needed to comply with SWPPP and NPDES. Item will also be used to stabilize disturbed areas within temporary construction easements. Refer to RR Sheets for the seeding plan.	
36	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	
		This item includes 4 waterings of 50 Gal per SQ of special ditch control. Refer to Tab 100-22 for locations.	
37	2601-2643300	MOBILIZATION FOR WATERING	
38	2602-0000020	SILT FENCE	
		Refer to Tab. 100-17. The tabulation includes estimated locations for placement of Silt Fence to address possible erosion during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.	
39	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	
		This item is included for silt fence and silt fence for ditch check removal required for staging reasons, for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth.	
40	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	
		This item is included for cleanout and repair of the silt fence and silt fence for ditch checks during the project.	
41	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	
42	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	
		Refer to RR Sheets and Tab 100-19 for locations and details. The tabulation includes estimated locations for placement. Perimeter control shall be placed at locations deemed necesssary by the Engineer.	
43	2602-0010010	MOBILIZATIONS, EROSION CONTROL	
44	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	

100_01D
8/15/22

PROJECT DESCRIPTION

Construction of 10' wide PCC multi-use trail connection from Polk City Junction Trail to High Trestle Trail.

111_25 4/30/25			
INDEX OF TABULATIONS			
Line No.	Tabulation	Tabulation Title	Sheet No.
1.0	100_01A	ESTIMATED PROJECT QUANTITIES	C.1
2.0	100_04A	ESTIMATE REFERENCE INFORMATION	C.2
3.0	100_01D	PROJECT DESCRIPTION	C.4
4.0	111_25	INDEX OF TABULATIONS	C.5
5.0	105_04	STANDARD ROAD PLANS	C.6
6.0	110_17	CLEARING AND GRUBBING	C.7
7.0	300_99	TRAIL	C.8
8.0	102_03	ACCESS POINTS AND SAFETY RAMPS	C.9
9.0	104_03	DRAINAGE STRUCTURE BY ROAD CONTRACTOR	C.10
10.0	104_05A	INTAKES AND UTILITY ACCESSES	C.11
11.0	104_05C	LIST OF SUBDRAIN WORK	C.12
12.0	108_23A	TRAFFIC CONTROL PLAN	J.1
13.0	108_26A	STAGING NOTES	J.2
14.0	113_02	PEDESTRIAN PATH CLOSURES	J.3
15.0	110_12	POLLUTION PREVENTION PLAN	RC.1
16.0	100_17	TABULATION OF SILT FENCES	RC.3
17.0	100_18	SILT FENCES FOR DITCH CHECKS	RC.4
18.0	100_19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	RC.5
19.0	100_22	ROLLED EROSION CONTROL	RC.6
20.0	100_23	ROCK EROSION CONTROL	RC.7
21.0	113_10	SIDEWALK COMPLIANCE	S.2

<div>105_04 10/21/25</div> <div>STANDARDS</div> <div>The following Standards apply to construction work on this project.</div>		
Number	Date	Title
DR-101	4/18/2017	Pipe Culvert (Bedding and Backfill)
DR-102	4/21/2015	Pipe Culvert (Cover and Camber)
DR-103	4/21/2015	Pipe Culvert (Installation Details)
DR-104	4/19/2016	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-121	4/18/2023	Connected Pipe Joints
DR-122	10/18/2016	Construction of Type 'C' Concrete Adaptors for Pipe Culvert Connections
DR-141	4/18/2017	Pipe Bends and Half Pipe
DR-201	10/17/2023	Concrete Aprons
DR-202	10/17/2023	Low Clearance Concrete Pipe Aprons
DR-203	4/21/2020	Metal Pipe Aprons and Beveled Ends
DR-205	10/17/2023	Concrete Apron with End Wall
DR-301	4/19/2022	Subdrains for Fill or Foundation Drainage (Standard)
DR-302	4/18/2023	Subdrains Standard (Farm Tile Replacement)
DR-305	4/19/2022	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)
DR-601	4/18/2017	Reinforced Concrete Pipe Culvert
DR-611	4/18/2017	Reinforced Concrete Pipe Culvert Letdown Structure
EC-101	04/19/2016	Wood Excelsior Mat for Ditch Protection
EC-103	4/21/2015	Wood Excelsior Mat for Slope Protection
EC-201	4/20/2021	Silt Fence
EC-204	10/19/2021	Perimeter, Slope and Ditch Check Sediment Control Devices
EC-301	10/18/2022	Rock Erosion Control (REC)
EC-303	10/19/2021	Stabilized Construction Entrance
EW-101	10/17/2017	Embankment and Rebuilding Embankments
MI-220	4/15/2025	Detectable Warnings and Pedestrian Ramp
PV-101	01/01/2026	Joints
SI-101	4/19/2016	Locations - Type 'A' Signs
SI-131	10/18/2016	Installation - Type 'A' Signs
SW-512	10/21/2025	Circular Area Intake
SW-604	10/21/2025	Castings for Area Intakes
TC-1	10/15/2019	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	4/18/2023	Work Within 15 ft of Traveled Way
TC-212	4/18/2023	Spot Location Lane Closure with Flaggers
TC-273	10/15/2019	Construction Site Entrance

CLEARING AND GRUBBING																							110_17 1/27/25
Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Other Materials Length (FT)	Other Materials Width (FT)	Estimated Units	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks
1.0	132+89.97	137+31.51		Trees - Clearing and Grubbing																	0.048		
2.0	138+88.95	156+24.50		Trees - Clearing and Grubbing																	0.494		
3.0	198+74.30	199+92.25		Trees - Clearing and Grubbing																	0.133		

<div>TRAIL</div> <div>See S Sheets and MI-220</div>										300 99 Modified
Line No.	Road Identification	Station	Station	Trail Length (LF)	Trail Thickness (IN)	Trail Width (FT)	6 IN PCC Trail (SY)	8 IN PCC Trail (SY)	Detectable Warnings (SF)	Remarks
1.0	Polk City Junction Trail	132+89.97	160+07.94	2717.97	6	10	3020.0			
1.5	Polk City Junction Trail	260+07.94	261+57.13	149.19	6	10	165.8		20	
1.75	Polk City Junction Trail	261+81.65	263+48.93	167.28	6	10	185.9		20	
2.0	Polk City Junction Trail	163+38.55	197+71.03	3432.48	6	10	3813.9			
3.0	Polk City Junction Trail	197+71.03	197+97.14	24.00	8	61		163.0		See Detail 4 on Sheet B.1
4.0	Polk City Junction Trail	197+97.14	199+80.91	183.80	6	10	212.7			

102_03
10/15/24

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.

Line No.	Station	Side	Access Type	Descriptor	Case	Curb Type	Curb Length (1) (LF)	Width (FT)	PR (1) (2) (FT)	SR (2) (FT)	Pipe Culvert (H) (3) (FT)	Pipe Culvert Size (3) (IN)	Culvert Length (3) (LF)	Pipe Culvert Lt. (3) (LF)	Pipe Culvert Rt. (3) (LF)	Culvert Aprons (3) (No.)	Driveway Surface Type	Driveway Surface Area (SY)	Driveway Surfacing Material (TON)	Remarks
2.0	197+98.57	Left	D					12.0									Granular	499.1	158.000	Field entrance, 6" thick

Drainage Area (ACRE)	Location	Type	Size (IN) (1)	Pipe Classification	Kind of Pipe (2)	Length New Const. (LF)	Length of total that is Trenchless	Bedding Class	Design Cover (H) (FT)	Camber* (DR-102) (FT)	Apron No. (IN)	Apron No. (OUT)	Apron Guard* (DR-213) (No.)	Elbow* (DR-141) (No.)	Diaphragm* (DR-501) (No.)	Tee Section* (DR-142) (No.)	"D" Section* (DR-141) (No.)	Reducer* (No.)	Type 'C' Conn.* (DR-122)	Type 'C' Conn.* (No.)	Connected Pipe Joint* (DR-121)	4" Perforated Subdrain* (FT)	Flow Line Elevation LT.	Flow Line Elevation RT.	Flow Line Elevation Other	Flow Line Elevation Other	Dimensions Lineal Feet Total (Left)	Dimensions Lineal Feet Total (Right)	Dimensions Lineal Feet Extensions	Dimensions Lineal Feet Extensions	Skew Ahead Degrees (Left)	Skew Ahead Degrees (Right)	Class 20 (CY)	Flowable Mortar	Floodable Backfill* (A)	Porous Backfill* (B)	Flooded Backfill (A+B)	Remarks	
	134+49.65	2000D	24.0	III	LCP	20.0		B	1.42		1	1											920.80	920.64			16.07	15.93										RCAP	
	142+29.60	2000D	15.0	III	RCP	16.5		B	1.23		1	1		1									929.96	930.87	931.37	929.96	15.40	13.65										DR-611, DR-205, Refer to Detail 5 on Sheet B.2	
	146+80.00	2000D	15.0	III	RCP	17.5		B	1.37		1	1											938.68	939.36			14.75	15.30											
	158+80.00	2000D	15.0	III	RCP	16.0		B	1.17		1	1											934.14	933.58			14.25	14.29											
	261+50.17	2000D	15.0	III	RCP	28.0		B	0.77		1	1											932.75	932.33	933.25		12.17	26.37										DR-205	
	261+93.45	2000D	15.0	III	RCP	20.0		B	1.85		1	1											932.35	931.27			15.03	17.52											
	164+00.00	2000D	18.0	III	LCP	16.0		B	1.40		1	1											929.16	928.60			14.03	14.47										RCAP	
	172+41.00	2000D	18.0	III	LCP	14.0		B	0.74		1	1											930.92	930.53			13.00	13.50										RCAP	
	183+99.70	2000D	30.0	III	LCP	23.0		B	1.72		1	1											932.77	931.91			18.82	20.18		29.0								RCAP	
	184+06.09	2000D	30.0	III	LCP	23.0		B	1.61		1	1											932.86	932.00			17.73	21.27		29.0								RCAP	
	196+00.00	16 Gage	15.0		CMP	24.0		B	1.11		1	1											937.71	937.88			14.60	14.17											
	197+78.34	16 Gage	15.0		CMP	45.5		B	1.42			1											939.05	939.34			25.57	22.25				28.8							See Tab 102-03 and 104-05A

INTAKES AND UTILITY ACCESSES						104_05A 8/15/22
* Not a Bid Item ** For SW-545						
Line No.	Location	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Extension Length** (FT)	Remarks
1.0	152+10.00	SW-512, 24"	941.15	938.65		SW-604 Type 3B Casting
2.0	198+00.00	SW-512, 24"	941.59	938.84		SW-604 Type 3B Casting

104_05C
8/15/22

LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

* Not a bid item

Line No.	Station From	Station To	Type of Installation	Pipe Type	Pipe Diameter (IN)	Pipe Length (LF)	Apron Type	Apron Quantity	Outlet Type	Outlet Quantity	Connected Pipe Joints Type* (DR-121)	Connected Pipe Joints No.* (DR-121)	Trench Drain (LF)	Granular Blanket Material (CY)	Porous Backfill* (CY)	Class ""A"" Crushed Stone* (CY)	Remarks
1.0	152+10.00	157+80.00		Plastic	8.0	567.0			DR-305 Type A	1							

FILE NO.

ENGLISH

DESIGN TEAM

Snyder & Associates. Inc.

POLK COUNTY

PROJECT NUMBER

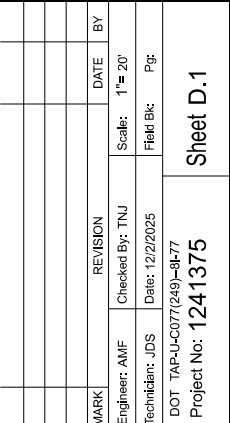
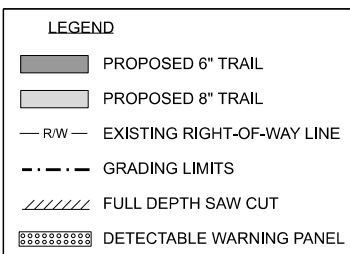
TAP-U-C077(249)--8I-77

SHEET NUMBER

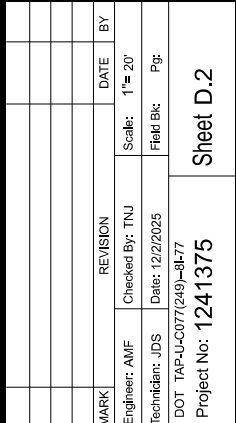
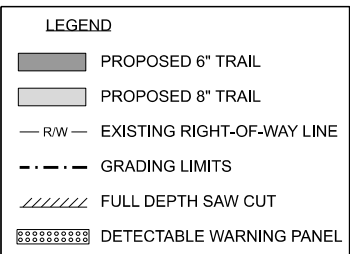
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ALEXIS.MORALES-FOOTE@IOWAID

PLAN AND PROFILE
POLK COUNTY, IOWA

The logo for Snyder & Associates features a large, bold, black stylized letter 'S' with a horizontal bar extending from its right side. Below the 'S' is the company name 'SNYDER & ASSOCIATES' in a bold, black, sans-serif font. The 'S' is positioned to the left of the text.



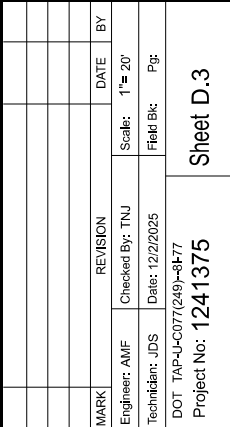
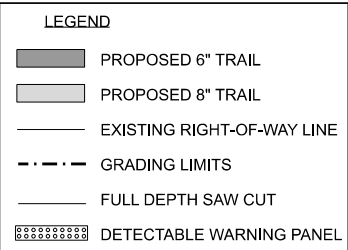
PLAN AND PROFILE



Sheet D.2

PLAN AND PROFILE

SNYDER & ASSOCIATES, INC.



PLAN AND PROFILE



SNYDER
& ASSOCIATES

Project No: 1241375

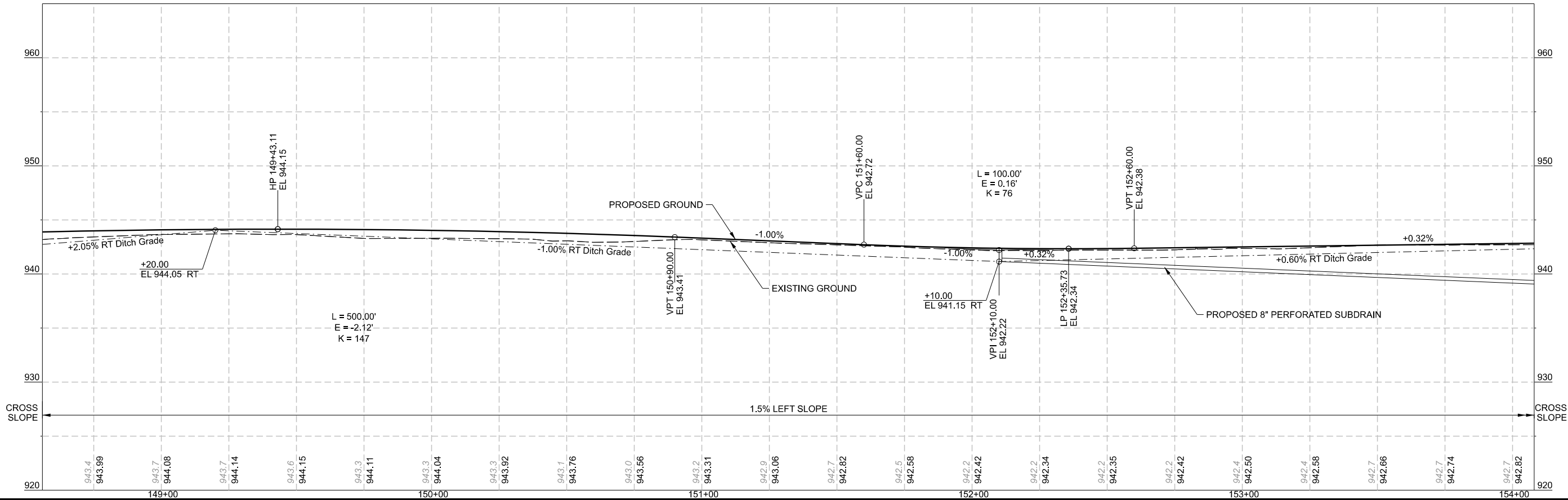
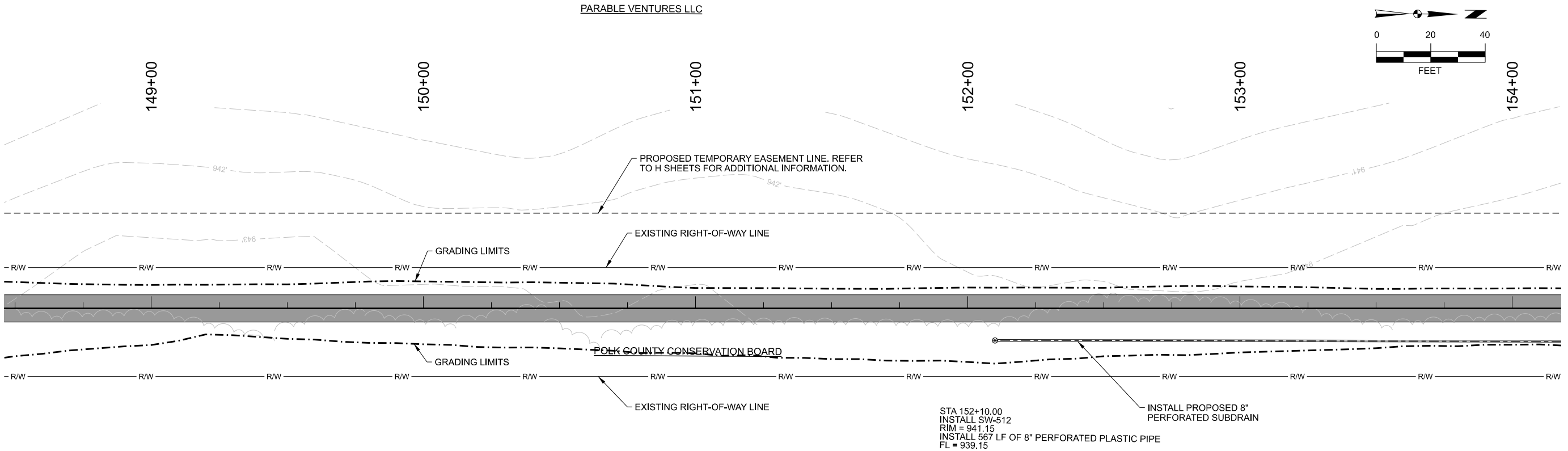
Sheet D.3

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GEOM_SOUTH+1 - Plan (Crew Sheet)

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POLK CITY JUNCTION TO HIGH TRETTLE TRAIL CONNECTOR		POLK COUNTY, IOWA	
PLAN AND PROFILE		Sheet D.4	
SNYDER & ASSOCIATES, INC.		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	
Project No: 1241375		Sheet D.4	

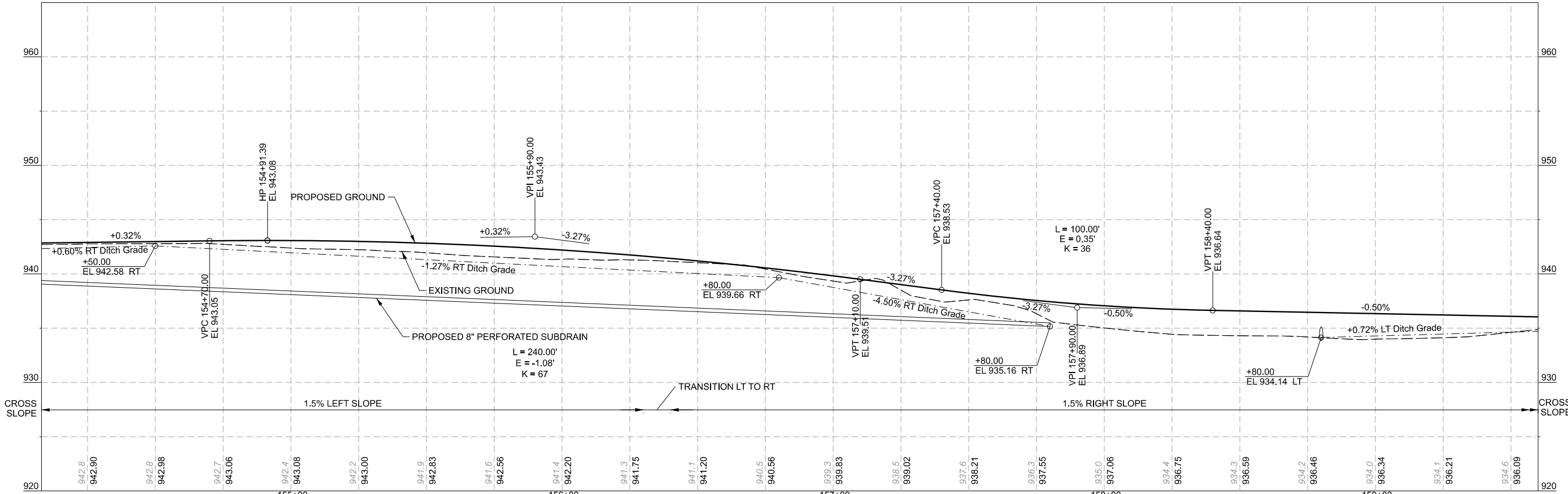
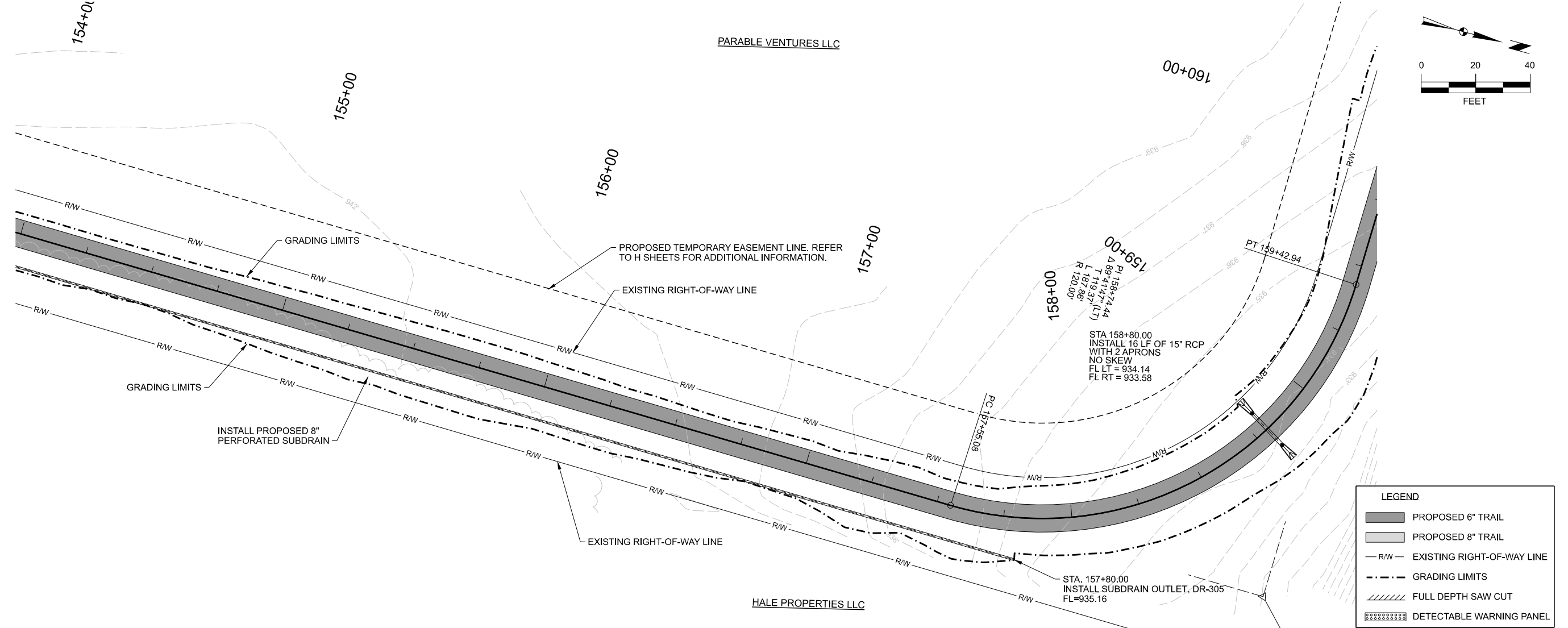
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Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:
DOT TAP-UC077(249)-9L-77		Project No: 1241375	

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GEOM_SOUTH-1 - Plan 11.rvt (Sheet)

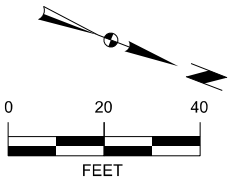
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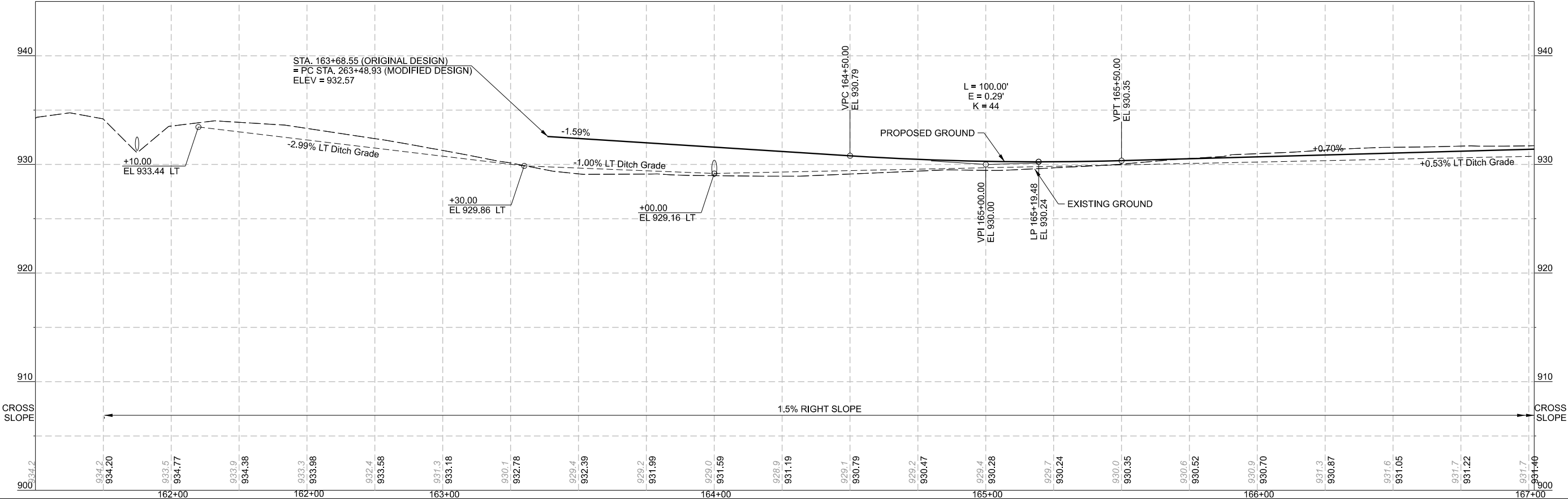
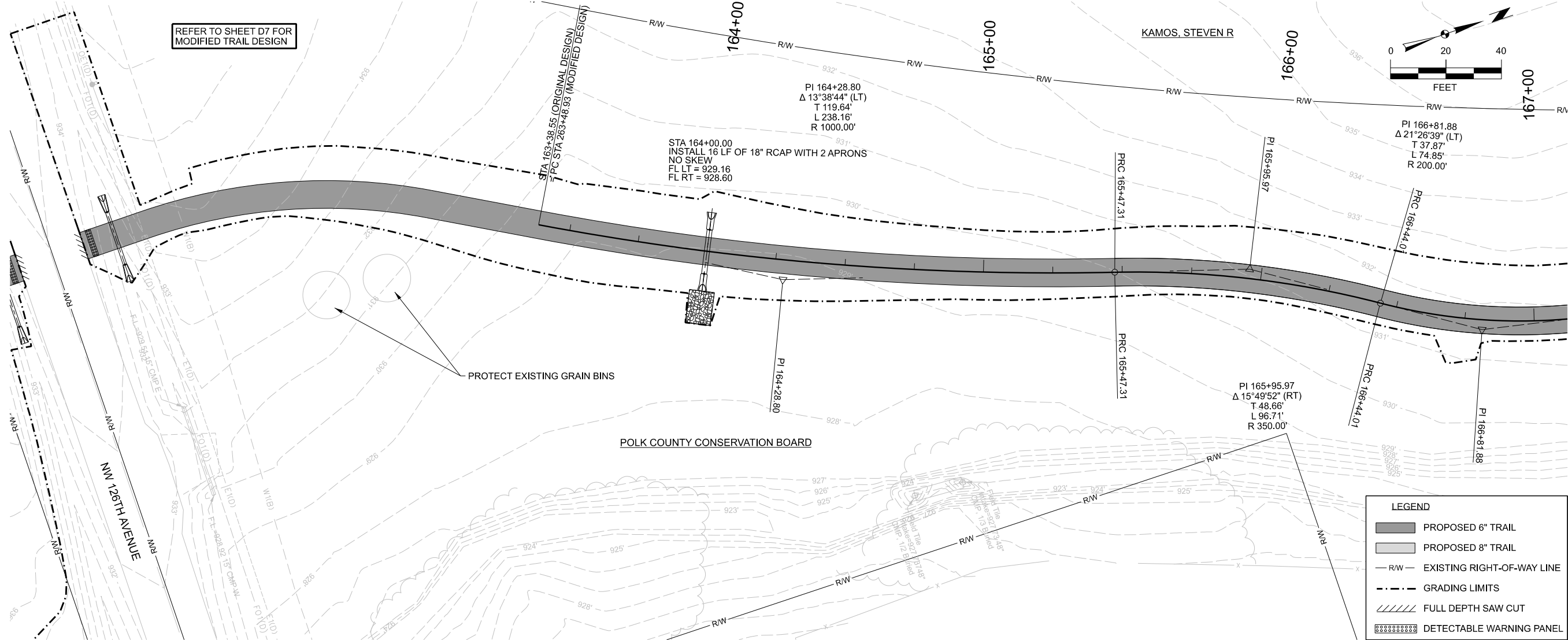
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POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR			
PLAN AND PROFILE			
POLK COUNTY, IOWA			
SNYDER & ASSOCIATES, INC.		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	
Project No: 1241375		Sheet D.5	

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: JDS	Date: 12/22/2025	Field Bk:	Pg:
DOT TAP-U-077(249)-a177		Project No: 1241375	
Sheet D.5			





POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

PLAN AND PROFILE

Project No: 1241375

POLK COUNTY, IOWA

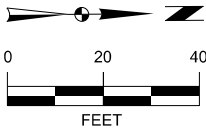
SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Sheet D.8

Sheet D.8

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:
DOT TAP-U-C077(249)-8-77			Project No: 1241375

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POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

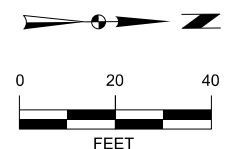
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ANKENY, IOWA 50023
| WWW.SNYDER-ASSOCIATES.COM

Sheet D.10

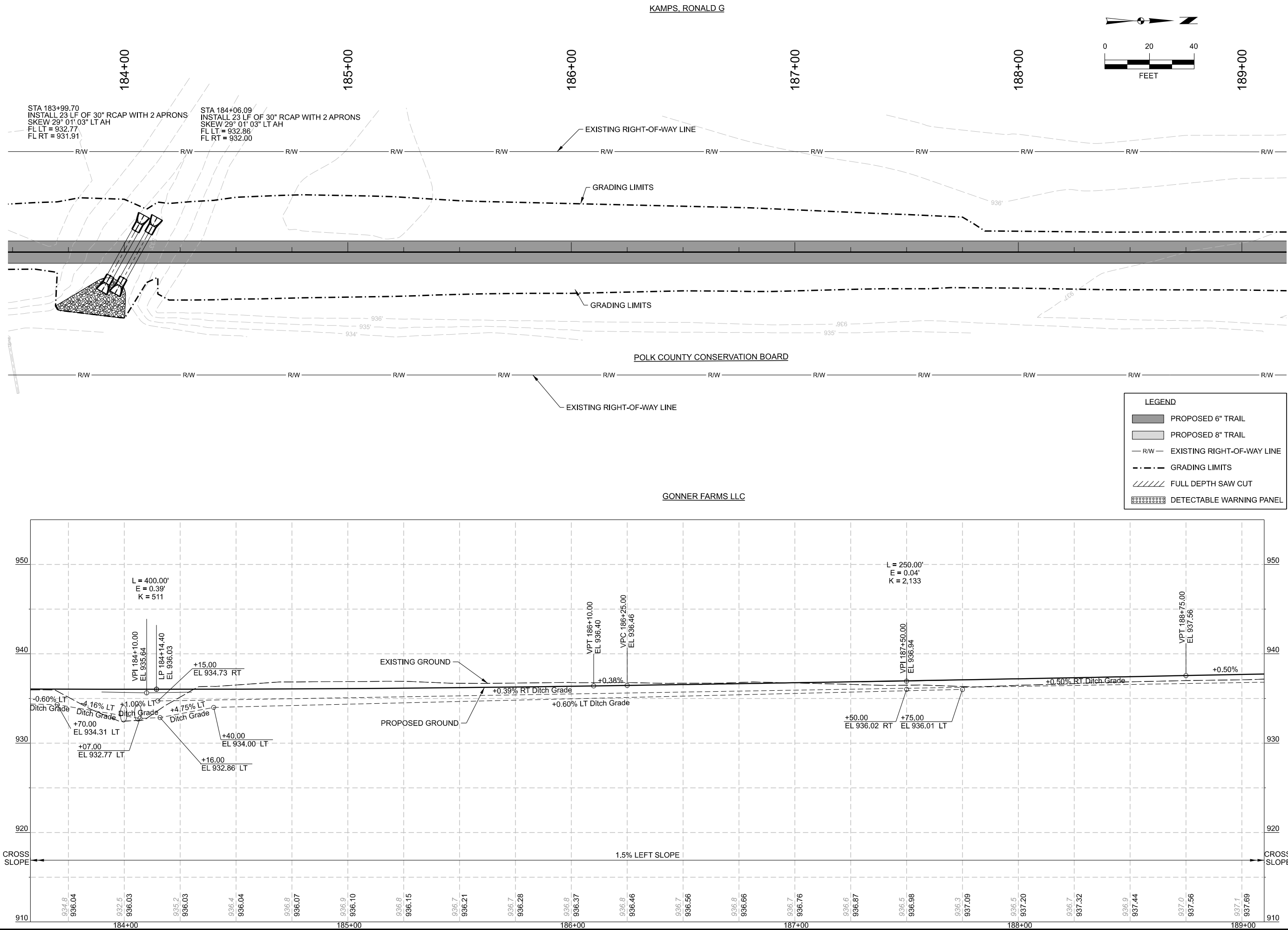


Project No: 1241375

Sheet D.10



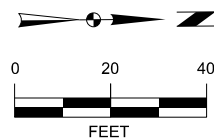
POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR			<div style="text-align: right;">SHEET D.11</div>
PLAN AND PROFILE			
POLK COUNTY, IOWA			
<p align="center"> SNYDER & ASSOCIATES, INC. 2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM </p>			
		REVISION	DATE BY
MARK:	Engineer: AMF	Checked By: TNJ	Date: 11-20'
	Techinician: JDS	Dated: 12/2/2025	Filed Bk: Pg:
DOT TAP-U-C07(2)49--R-I-77			Sheet D.11
Project No: 1241375			



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR		POLK COUNTY, IOWA	
PLAN AND PROFILE		SNYDER & ASSOCIATES, INC.	
Project No: 1241375		Sheet D.12	
2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM		Sheet D.12	

SNYDER & ASSOCIATES

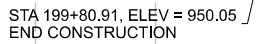
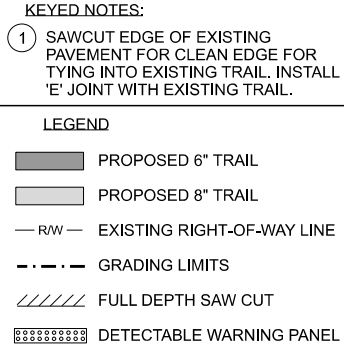
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Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:
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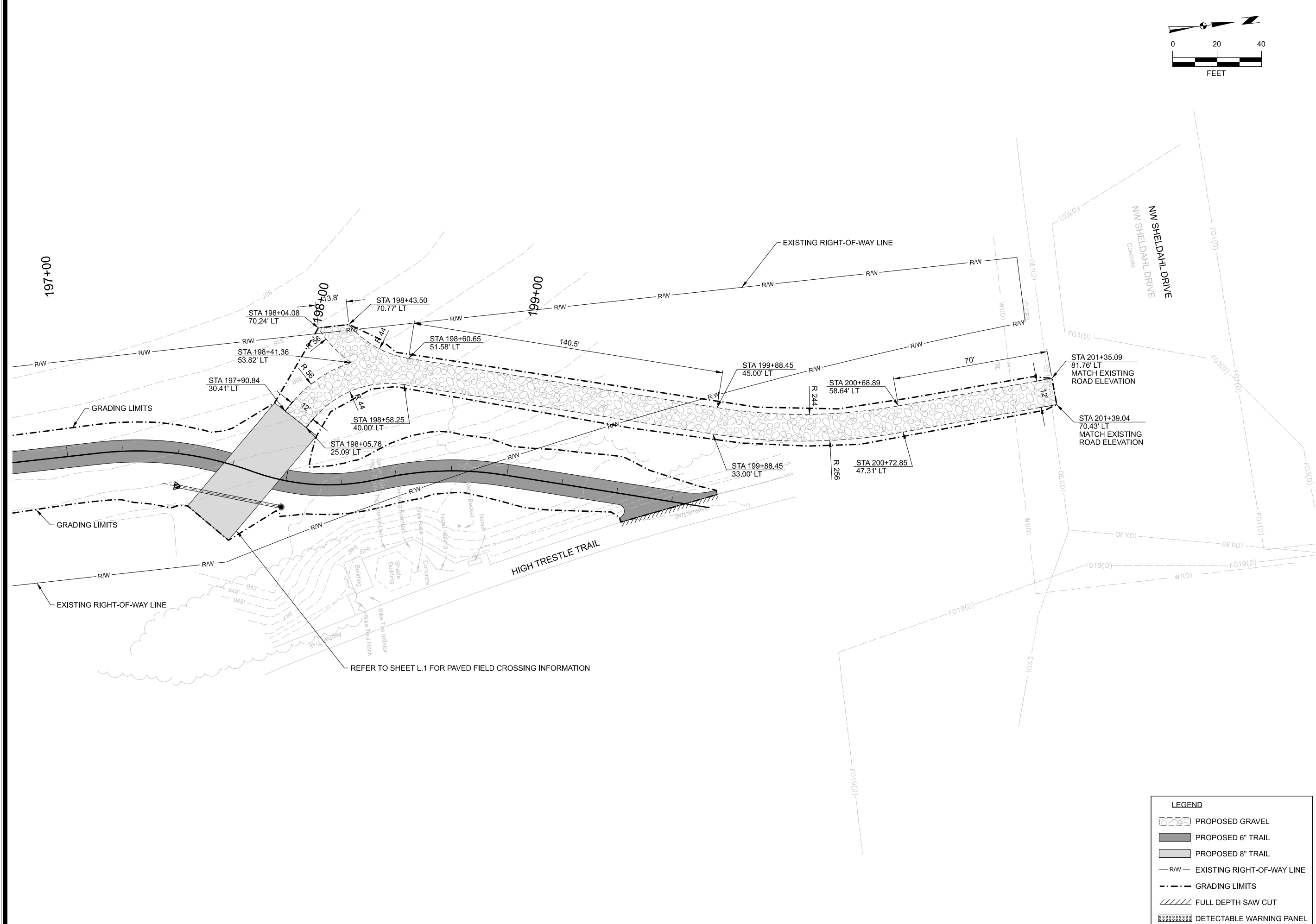
SNYDER
& ASSOCIATES

Project No: 1241375

Sheet D.13



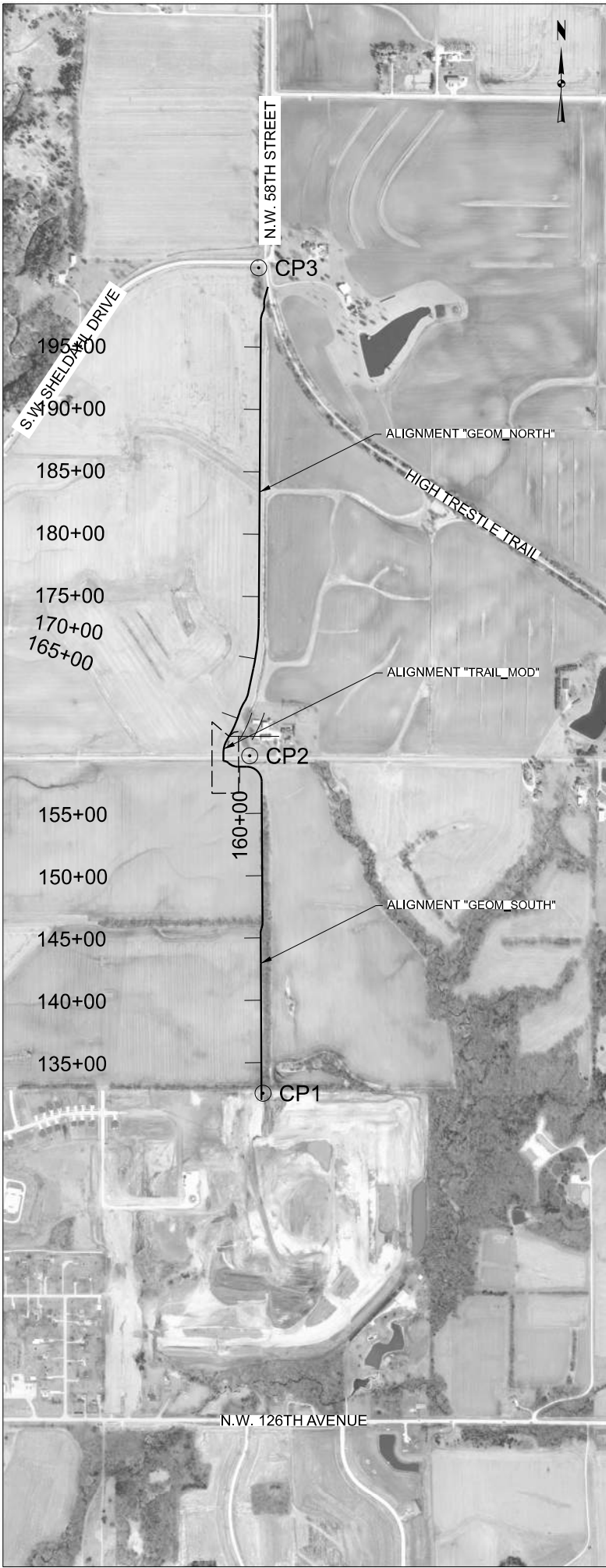
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POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR		POLK COUNTY, IOWA	
FIELD ENTRANCE PLAN SHEET			
SNYDER & ASSOCIATES, INC.		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	
Project No: 1241375		Sheet E.1	

MARK	REVISION	DATE	BY
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Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:
DOT TAP-U-007(249)-8-77		Project No: 1241375	
Sheet E.1			

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DATE OF SURVEY

MARCH 16, 2021

CONTROL POINTS

- IOWA STATE PLANE SOUTH COORDINATE SYSTEM
NAD83(2011)(EPOCH 2010.00) IARTN DERIVED - US SURVEY FEET
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - GEOID12A)
IARTN DERIVED - US SURVEY FEET
- CP1 N=850098.19 E=1586445.71 ELEVATION=921.85
1/2" REBAR WITH ORANGE PLASTIC CCONTROL CAP 1/45' SW OF SECTION CORNER, 1/20' SOUTH OF FENCE LINE, SOUTH CORNER OF SITE. AS SHOWN ON SURVEY.
- CP2 N=652802.91 E=1586338.95 ELEVATION=929.99
CUT "X" ON EAST SIDE CULVERT CONCRETE HEADWALL, NORTH SIDE OF NW 126TH AVENUE. AS SHOWN ON SURVEY.
- CP3 N=656714.37 E=1586411.16 ELEVATION=946.34
1/2" REBAR WITH RED PLASTIC CAP 1/5' EAST OF POWER POLE WITH UNDERGROUND ELECTRIC, 1/20' SOUTH OF LIGHT POLE SOUTH SIDE OF SHELDAHL DRIVE, 1/40' WEST OF HTT TRAIL. AS SHOWN ON SURVEY.

Alignment Name: GEOM_SOUTH Alignment Description: Alignment Style: Alignment(Geom_Baseline	Station	Northing	Easting
Element: Linear START (START) HPI (HPI) Tangential Direction: Tangential Length:	132+00.000 142+95.027 N0.304°W 1095.027	650043.300 651138.311	1586433.898 1586428.097
Element: Linear HPI (HPI) PC (PC) Tangential Direction: Tangential Length:	142+95.027 145+36.161 N0.304°W 241.135	651138.311 651379.443	1586428.097 1586426.820
Element: Circular PC (PC) HPI (HPI) CC (CC) PRC (PRC) Radius: Delta: 20°48'25.012" Right Degree of Curvature (Arc): Length: Tangent: Chord: Middle Ordinate: External: Back Tangent Direction: Back Radial Direction: Chord Direction: Ahead Radial Direction: Ahead Tangent Direction:	145+36.161 145+57.275 145+77.924 115.000 49°49'20.701" 41.762 21.114 41.533 1.891 1.922 N0.304°W N89.696°E N10.100°E S69.497°E N20.503°E	651379.443 651400.556 651380.052 651420.332	1586426.820 1586426.708 1586541.818 1586434.103
Element: Circular PRC (PRC) HPI (HPI) CC (CC) PT (PT) Radius: Delta: 20°48'25.012" Left Degree of Curvature (Arc): Length: Tangent: Chord: Middle Ordinate: External: Back Tangent Direction: Back Radial Direction: Chord Direction: Ahead Radial Direction: Ahead Tangent Direction:	145+77.924 145+99.037 146+19.686 115.000 49°49'20.701" 41.762 21.114 41.533 1.891 1.922 N20.503°E S69.497°E N10.100°E N89.696°E N0.304°W	651420.332 651440.108 651460.612 651461.222	1586434.103 1586441.499 1586326.388 1586441.387
Element: Linear PT (PT) PC (PC) Tangential Direction: Tangential Length:	146+19.686 157+55.078 N0.304°W 1135.393	651461.222 652596.598	1586441.387 1586435.372
Element: Circular PC (PC) HPI (HPI) CC (CC) PT (PT) Radius: Delta: 89°41'47.342" Left Degree of Curvature (Arc): Length: Tangent: Chord: Middle Ordinate: External: Back Tangent Direction: Back Radial Direction: Chord Direction: Ahead Radial Direction: Ahead Tangent Direction:	157+55.078 158+74.444 159+42.938 120.000 47°44'47.339" 187.860 119.366 169.256 34.923 49.258 N0.304°W N89.696°E N45.152°W N0.000°E N90.000°W	652596.598 652715.963 652595.963 652715.963	1586435.372 1586434.740 1586315.374 1586315.374
Element: Linear PT (PT) HPI (HPI)	159+42.938 160+07.944	652715.963 650239.869	1586315.374 1598365.664

Alignment Name: TRAIL_MOD Alignment Description: Alignment Style: Alignment(Geom_Baseline	Station	Northing	Easting
Element: Linear START (START) PC (PC) Tangential Direction: Tangential Length:	25942.938 26017.944 S90.000°W 75.006	652715.963 652715.963	1586315.374 1586240.368
Element: Circular PC (PC) HPI (HPI) CC (CC) PRC (PRC) Radius: Delta: 45.607 Right Degree of Curvature (Arc): Length: Tangent: Chord: Middle Ordinate: External: Back Tangent Direction: Back Radial Direction: Chord Direction: Ahead Radial Direction: Ahead Tangent Direction:	26017.944 26059.987 26097.543 100.000 57.296 79.599 42.043 77.514 7.816 8.479 S90.000°W N0.000°W N67.197°W N45.607°E N44.393°W	652715.963 652715.963 652746.005	1586240.368 1586198.325 1586240.368 1586168.913
Element: Circular PRC (PRC) HPI (HPI) CC (CC) PT (PT) Radius: Delta: 45.365 Left Degree of Curvature (Arc): Length: Tangent: Chord: Middle Ordinate: External: Back Tangent Direction: Back Radial Direction: Chord Direction: Ahead Radial Direction: Ahead Tangent Direction:	26097.543 26118.441 26137.132 50.000 114.592 39.589 20.898 38.563 3.867 4.191 N44.393°W N45.607°E N67.076°W N0.242°E N89.758°W	652746.005 652760.937 652711.026 652761.026	1586168.913 1586154.293 1586133.185 1586133.396
Element: Linear PT (PT) HPI (HPI) Tangential Direction: Tangential Length:	26137.132 26142.132 N89.758°W 5.000	652761.026 652761.047	1586133.396 1586128.396
Element: Linear HPI (HPI) PC (PC) Tangential Direction: Tangential Length:	26142.132 26205.465 N0.078°W 63.334	652761.047 652824.380	1586128.396 1586128.310
Element: Circular PC (PC) HPI (HPI) CC (CC) PT (PT) Radius: Delta: 29.577 Right Degree of Curvature (Arc): Length: Tangent: Chord: Middle Ordinate: External: Back Tangent Direction: Back Radial Direction: Chord Direction: Ahead Radial Direction: Ahead Tangent Direction:	26205.465 26258.265 26308.709 200.000 28.648 103.243 52.799 102.101 6.625 6.852 N0.078°W N89.922°E N14.711°E S60.501°E N29.499°E	652824.380 652877.18 652824.651 652923.134	1586128.310 1586128.238 1586328.310 1586154.237
Element: Linear PT (PT) PC (PC) Tangential Direction: Tangential Length:	26308.709 26348.931 N29.499°E 40.222	652923.134 652958.142	1586154.237 1586174.043

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

SURVEY SHEETS

POLK COUNTY, IOWA



Project No: 1241375

Sheet G.1

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Sheet G.1

Project No: 1241375

MARK

Engineer: AUF

Checked By: TNU

Scale:

DATE

BY

N.T.S.

Field Bk:

Date: 12/22/2025

Technician: JDS

Pg:

DOT TAP-U-C077(249)-84-77

Alignment Name: GEOM_NORTH
Alignment Description:
Alignment Style: Alignment\Geom_Baseline

Station	Northing	Easting
Element: Circular		
PC (GeomBL5)	163+38.547	652958.142
HPI (HPI)	164+28.796	653035.131
CC (CC)		653450.555
PRC (PRC)	165+47.309	653149.215

Radius: 1000.000
Delta: 13°38'43.530" Left
Degree of Curvature (Arc): 05°43'46.481"
Length: 208.762
Tangent: 119.645
Chord: 237.595
Middle Ordinate: 7.082
External: 7.132
Back Tangent Direction: N31.184°E
Back Radial Direction: S58.816°E
Chord Direction: N24.361°E
Ahead Radial Direction: S72.462°E
Ahead Tangent Direction: N17.538°E

Element: Circular		
PRC (GeomBL6)	165+47.309	653149.215
HPI (HPI)	165+95.972	653195.616
CC (CC)		653043.746
PRC (PRC)	166+44.015	653236.256
Radius: 350.000		
Delta: 15°49'51.636" Right		
Degree of Curvature (Arc): 16°22'12.802"		
Length: 96.706		
Tangent: 48.663		
Chord: 96.399		
Middle Ordinate: 3.335		
External: 3.367		
Back Tangent Direction: N17.538°E		
Back Radial Direction: S72.462°E		
Chord Direction: N25.454°E		
Ahead Radial Direction: S56.631°E		
Ahead Tangent Direction: N33.369°E		

Element: Circular		
PRC (GeomBL7)	166+44.015	653236.256
HPI (HPI)	166+81.885	653267.883
CC (CC)		653346.263
PT (GeomBL2)	167+18.869	653304.936
Radius: 200.000		
Delta: 21°26'38.587" Left		
Degree of Curvature (Arc): 28°38'52.403"		
Length: 74.854		
Tangent: 37.870		
Chord: 74.418		
Middle Ordinate: 3.492		
External: 3.554		
Back Tangent Direction: N33.369°E		
Back Radial Direction: S56.631°E		
Chord Direction: N22.647°E		
Ahead Radial Direction: S78.075°E		
Ahead Tangent Direction: N11.925°E		

Element: Linear		
PT (PT)	167+18.869	653304.936
PC (PC)	169+20.597	653502.310
Tangential Direction: N11.925°E		
Tangential Length: 201.728		

Element: Circular		
PC (GeomBL2)	169+20.597	653502.310
HPI (HPI)	171+22.461	653699.818
CC (CC)		653915.576
PT (GeomBL3)	173+22.962	653901.677
Radius: 2000.000		
Delta: 11°31'36.860" Left		
Degree of Curvature (Arc): 02°51'53.240"		
Length: 402.365		
Tangent: 201.864		
Chord: 401.687		
Middle Ordinate: 10.110		
External: 10.161		
Back Tangent Direction: N11.925°E		
Back Radial Direction: S78.075°E		
Chord Direction: N6.162°E		
Ahead Radial Direction: S89.602°E		
Ahead Tangent Direction: N0.398°E		

Element: Linear		
PT (PT)	173+22.962	653901.677
PC (PC)	197+14.636	656293.293
Tangential Direction: N0.398°E		
Tangential Length: 2391.674		

Element: Circular		
PC (GeomBL3)	197+14.636	656293.293
HPI (HPI)	197+49.958	656328.614
CC (CC)		656292.251
PRC (PRC)	197+84.016	656360.115
Radius: 150.000		
Delta: 26°30'04.387" Right		
Degree of Curvature (Arc): 38°11'49.871"		
Length: 69.380		
Tangent: 35.322		
Chord: 68.763		
Middle Ordinate: 3.993		
External: 4.103		
Back Tangent Direction: N0.398°E		
Back Radial Direction: S89.602°E		
Chord Direction: N13.649°E		
Ahead Radial Direction: S63.101°E		
Ahead Tangent Direction: N26.899°E		

Element: Circular		
PRC (GeomBL10)	197+84.016	656360.115
HPI (HPI)	198+13.640	656386.533
CC (CC)		656405.357
PRC (PRC)	198+41.616	656415.989
Radius: 100.000		
Delta: 33°00'08.610" Left		
Degree of Curvature (Arc): 57°17'44.806"		
Length: 57.600		
Tangent: 29.624		
Chord: 56.807		
Middle Ordinate: 4.119		
External: 4.296		
Back Tangent Direction: N26.899°E		
Back Radial Direction: S63.101°E		
Chord Direction: N10.398°E		
Ahead Radial Direction: N83.897°E		
Ahead Tangent Direction: N6.103°W		

Element: Circular		
PRC (GeomBL11)	198+41.616	656415.989
HPI (HPI)	198+70.709	656444.917
CC (CC)		656431.936
PT (GeomBL4)	198+99.088	656472.904
Radius: 150.000		
Delta: 21°57'10.040" Right		
Degree of Curvature (Arc): 38°11'49.871"		
Length: 57.472		
Tangent: 29.093		
Chord: 57.121		
Middle Ordinate: 2.744		
External: 2.795		
Back Tangent Direction: N6.103°W		
Back Radial Direction: N83.897°E		
Chord Direction: N4.873°E		
Ahead Radial Direction: S74.150°E		
Ahead Tangent Direction: N15.850°E		

Element: Linear		
PT (PT)	198+99.088	656472.904
END (END)	199+92.252	656562.526
Tangential Direction: N15.850°E		
Tangential Length: 93.164		

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

SURVEY SHEETS

POLK COUNTY, IOWA



Project No: 1241375

Sheet G.2

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

DOT TAP-JJ-COT77(249)-81-77

Project No: 1241375

Sheet G.2

Scale:

Field Bk:

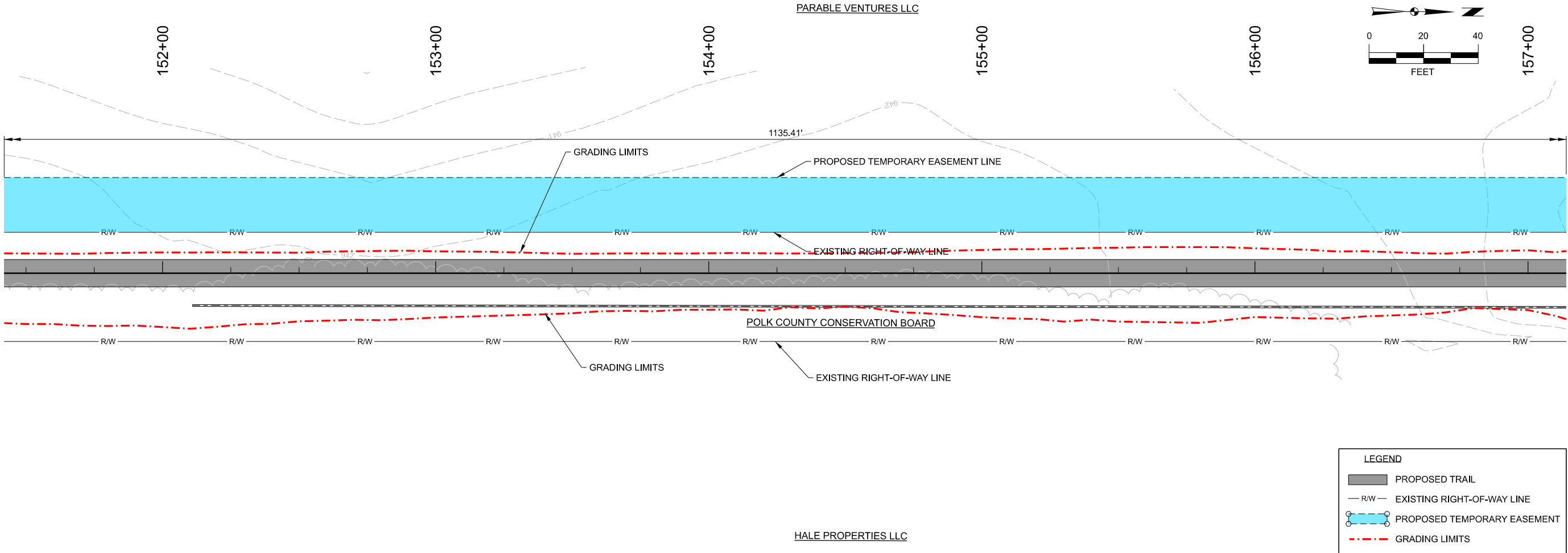
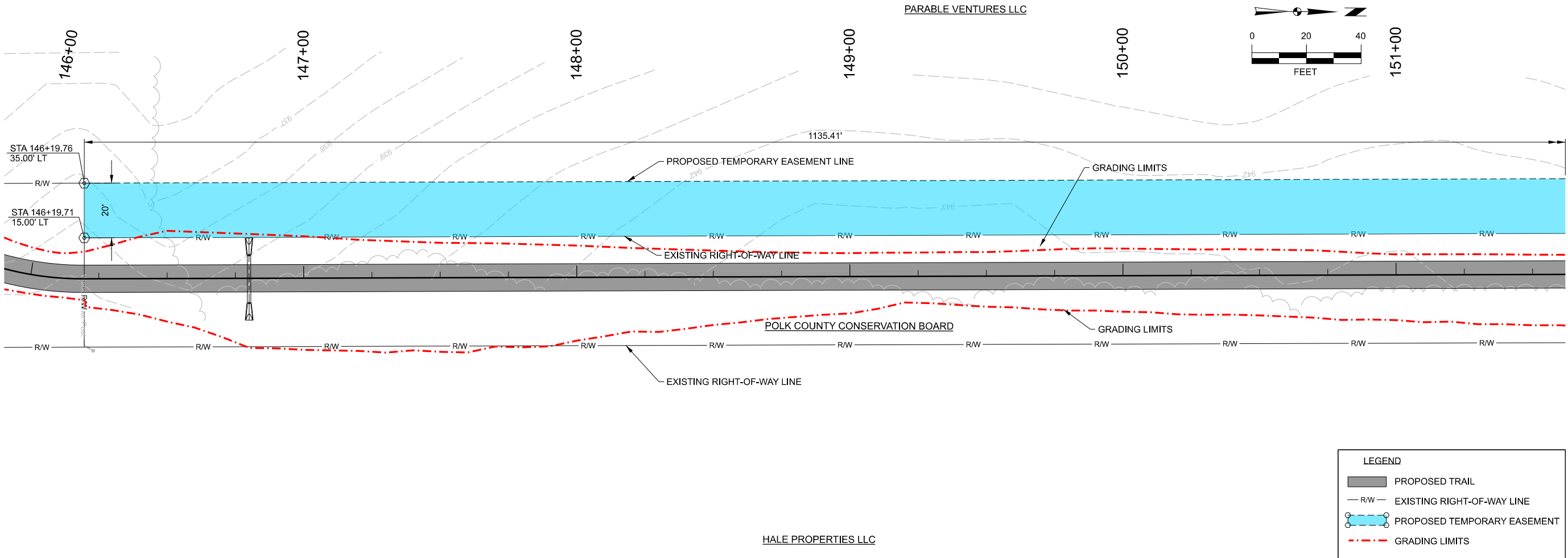
DATE

BY

N.T.S.

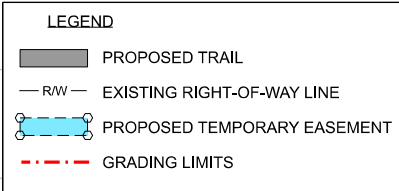
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POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR		POLK COUNTY, IOWA	
RIGHT OF WAY SHEETS		RIGHT OF WAY SHEETS	
SNYDER & ASSOCIATES, INC.		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	
Project No: 1241375		Sheet H.1	

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:
DOT TAP-U-0077(249)-477		Project No: 1241375	
Sheet H.1			



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR			
RIGHT OF WAY SHEETS		POLK COUNTY, IOWA	
<div>  <div> SNYDER & ASSOCIATES </div> </div>			
Project No: 124.1375 Sheet H.2		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	

TRAFFIC CONTROL PLAN

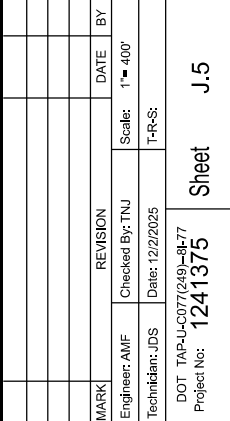
1. TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR THE STREETS AND HIGHWAYS, 11TH EDITION AS ADOPTED BY THE IOWA DEPARTMENT OF TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, CLEANED AND REMOVED BY THE CONTRACTOR. ALL TRAFFIC CONTROL WILL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK TRAFFIC CONTROL DEVICES DAILY AND REPAIR OR REPLACE DAMAGED OR MISALIGNED DEVICES PROMPTLY.
3. THE CONTRACTOR SHALL PROVIDE, PRIOR TO THE START OF CONSTRUCTION, THE NAME AND 24-HOUR PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE IN CHARGE OF TRAFFIC CONTROL. PROMPT RESPONSE TO TRAFFIC CONTROL RELATED ITEMS IS REQUIRED.
4. PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED WITH THE OWNER AND ENGINEER AT LEAST 5 BUSINESS DAYS BEFORE CHANGES ARE MADE IN THE FIELD.
5. THE CONTRACTOR SHALL COMMUNICATE TRAFFIC CONTROL CHANGES DETAILED IN THESE PLANS WITH PROPERTY OWNERS ALONG THE PROJECT CORRIDOR AT LEAST ONE WEEK PRIOR TO CHANGES.
6. ACCESS TO LOCAL RESIDENTIAL PROPERTIES AND BUSINESSES ALONG PROJECT CORRIDOR WILL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS OF ANY TEMPORARY ACCESS CLOSURES AT LEAST TWO WEEKS PRIOR TO CLOSE.
7. WHERE PEDESTRIAN PATHWAY CLOSURES ARE IDENTIFIED IN THE PLANS, THE CONTRACTOR MUST PROVIDE 10 CALENDAR DAYS ADVANCE NOTIFICATION OF PEDESTRIAN PATH CLOSURES TO: IOWA DEPARTMENT OF THE BLIND: DIRECTOR'S OFFICE, TELEPHONE: 515-281-1336, WEBSITE: WWW.BLIND.STATE.IS.US, NATIONAL FEDERATION OF THE BLIND OF IOWA: PRESIDENT, TELEPHONE: 319-321-8769, EMAIL ADDRESS: DONNA.PRIME@NFB.ORG AND THE ENGINEER.
8. TRAIL PEDESTRIAN PATHWAY CLOSURES SHALL BE MARKED WITH R9-9 MODIFIED (TRAIL) SIGNAGE MOUNTED ON TYPE III BARRICADE WITH MOVEABLE SKIDS. THE SIGNS MUST BE IN A CONDITION THAT ALLOWS THEM TO BE EFFECTIVE. THE SIGNS MUST HAVE ADEQUATE REFLECTIVITY DURING NIGHT TIME INSTALLATIONS AND USAGE SO THAT THE MESSAGE IS CLEARLY READABLE. LOCATE THE SIGNS AT THE DESIGNATED AREAS IN TAB 113-2 WHILE CONSTRUCTION IS IN PROGRESS. ORANGE CONSTRUCTION FENCING (48" HEIGHT) WITH TEMPORARY T-POSTS, SHALL BE INSTALLED FOR ALL TRAIL PEDESTRIAN PATHWAY CLOSURES TO BE EXTENDED THE FULL WIDTH OF THE TRAIL SECTION.
9. NW 126TH AVENUE SHALL REMAIN OPEN AT ALL TIMES. LANE CLOSURES WILL BE FOR DAYTIME WORK ONLY AND WILL NOT BE ALLOWED OVERNIGHT.
10. CONSTRUCTION ENTRANCES OFF OF NW 126TH AVENUE AND NW SHELDAHL DRIVE WILL REQUIRE TRAFFIC CONTROL PER IOWA DOT STANDARD ROAD PLAN TC-273.
11. CONSTRUCTION WITHIN 126TH AVENUE ROAD RIGHT-OF-WAY WILL REQUIRE TRAFFIC CONTROL PER IOWA DOT STANDARD ROAD PLAN TC-212. TRAFFIC CONTROL FOR LANE CLOSURE WILL BE REMOVED WHENEVER CONTRACTOR IS NOT ON SITE. FLAGGER SHALL BE USED WHENEVER LANE CLOSURE IS IN EFFECT.

STAGING NOTES

1. THE CONTRACTOR SHALL NOT START ANY WORK UNTIL AFTER TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE OWNER AND ENGINEER.
2. SUBMIT A SCHEDULE THAT INCLUDES A PHASING/STAGING PLAN FOR TRAIL IMPROVEMENTS TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
3. STAGING PLAN SHALL IDENTIFY ACCESS LOCATIONS TO TRAIL, SCHEDULE FOR WHAT OPERATIONS WILL TAKE PLACE ON WHICH PROJECT SEGMENTS, AND TRUCK WASHOUT-OUT LOCATIONS.
4. CONTRACTOR MAY USE POLK COUNTY CONSERVATION BOARD PROPERTY AS STAGING/LAY DOWN AREA. COORDINATE STAGING/LAY DOWN AREA WITH POLK COUNTY CONSERVATION BOARD. PROTECT EXISTING PAVEMENT, GRANULAR MATERIAL, AND OTHER SITE FEATURES. RESTORATION OF STAGING/LAY DOWN AREA INCLUDING PERMANENT SEEDING IS CONSIDERED INCIDENTAL TO THE PROJECT. CONTRACTOR TO INSTALL AND MAINTAIN ORANGE CONSTRUCTION FENCING AROUND STAGING AREA THROUGHOUT DURATION OF THE PROJECT. THIS IS CONSIDERED INCIDENTAL TO THE PROJECT.
5. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH FRANCHISE UTILITY COMPANIES. CONTRACTOR TO PROTECT AND SUPPORT EXISTING UTILITIES DURING CONSTRUCTION.
6. CONTRACTOR IS TO COORDINATE TRAIL CONSTRUCTION WITH CITY OF POLK CITY'S REGIONAL PARK PROJECT.
7. CONTRACTOR TO NOTIFY OWNER, ENGINEER, AND ADJACENT PROPERTY PRIVATE OWNER'S A MINIMUM OF TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION OF PAVED FIELD CROSSING ON SHEET L.1 AND REALIGNMENT OF FARM FIELD ENTRANCE ON SHEET E.1. FIELD CROSSING AND FIELD ENTRANCE MAY NOT BE CLOSED MORE THAN TWO (2) WEEKS FOR GRADING AND PAVING OPERATIONS.

<div>113_02 8/15/22</div> <div>PEDESTRIAN PATH CLOSURES</div> <div>Refer to TC-601.</div> <div>*Assumes 6 foot wide barricade. Closures may need to be removed and re-established.</div>					
Line No.	Location	Side	Width of Closure (FT)	Type III Barricades* (No.)	Remarks
1.0	132+89.97		10.0	1	Includes orange construction fencing
2.0	261+57.13		10.0	1	Includes orange construction fencing
3.0	261+81.65		10.0	1	Includes orange construction fencing
4.0	199+80.91		10.0	1	Includes orange construction fencing

<div>111_01 10/14/22</div> <div>COORDINATED OPERATIONS</div> <div>Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.</div>	
Project	Type of Work
City of Polk City Regional Park	Trail



POLK COUNTY, IOWA

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Sheet J.5

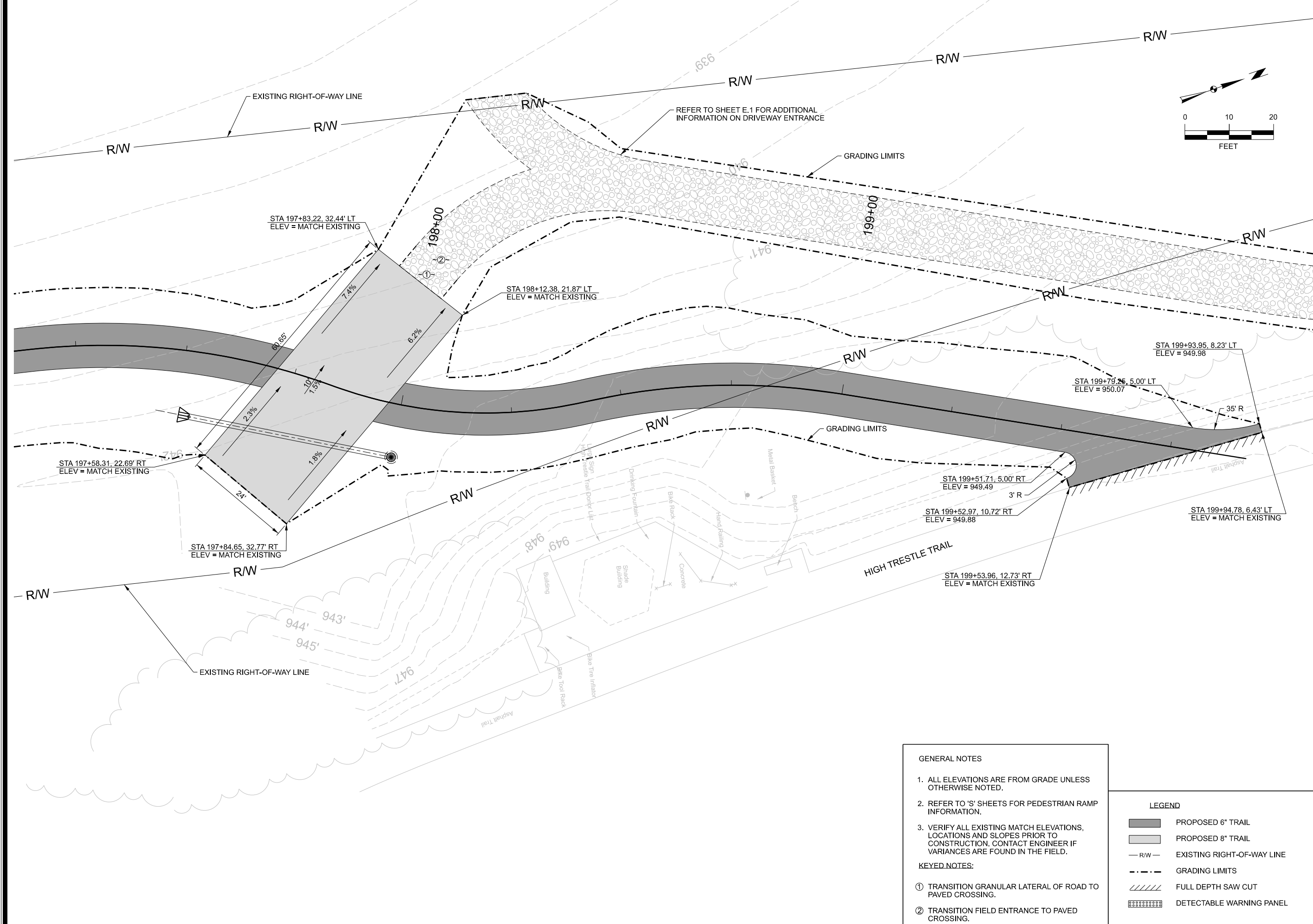
Project No: 1241375

Sheet J.5



SNYDER
 & ASSOCIATES

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GENERAL NOTES

1. ALL ELEVATIONS ARE FROM GRADE UNLESS OTHERWISE NOTED.
2. REFER TO 'S' SHEETS FOR PEDESTRIAN RAMP INFORMATION.
3. VERIFY ALL EXISTING MATCH ELEVATIONS, LOCATIONS AND SLOPES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF VARIANCES ARE FOUND IN THE FIELD.

KEYED NOTES:

- ① TRANSITION GRANULAR LATERAL OF ROAD TO PAVED CROSSING.
- ② TRANSITION FIELD ENTRANCE TO PAVED CROSSING.

LEGEND

- PROPOSED 6" TRAIL
- PROPOSED 8" TRAIL
- EXISTING RIGHT-OF-WAY LINE
- GRADING LIMITS
- FULL DEPTH SAW CUT
- DETECTABLE WARNING PANEL

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

GEOMETRIC, STAKING AND JOINTING

POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNU	Scale: 1"= 10'	
Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:
Project No: 1241375			Sheet L.1



Project No:1241375

Sheet L.1

<div>110_12 1/13/23</div> <div>POLLUTION PREVENTION PLAN</div> <div><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">Prepares Base PPP included in the project plan.Prepares Notice of Intent (NOI) submitted to Iowa DNR.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">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.Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).Supervises and implements good housekeeping practices according to Paragraph III, C, 2.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.Complies with training and certification requirements of Section 2602 of the Standard Specifications.Submits amended PPP site map according to Section 2602 of the Standard Specifications.<p>C. Subcontractors:</p><ol style="list-style-type: none">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 perorming 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.Implement good housekeeping practices according to Paragraph III, C, 2.<p>D. RCE/Project Engineer:</p><ol style="list-style-type: none">Is Project Storm Water Manager.On projects where DOT is the Contracting Authority, is current with erosion control training or certification.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.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.Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.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.Is familiar with the Project PPP and storm water site map.On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.Is signature authority on Notice of Discontinuation.Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).Makes information to determine permit compliance available to the DNR upon their request.</div>				<div>110_12 1/13/23</div> <div>POLLUTION PREVENTION PLAN</div> <div><p>E. Inspector:</p><ol style="list-style-type: none">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.Makes information to determine permit compliance available to the DNR upon their request.Conducts joint required inspections of the site with the contractor/subcontractor.Completes an inspection report after each inspection.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 the Polk City Junction Trail.</p><p>B. This PPP covers approximately 10.4 acres with an estimated 10.4 acres being disturbed. The portion of the PPP covered by this contract has 10.4 acres disturbed.</p><p>C. The PPP is located in an area of Clarion-Nicollet-Webster soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.42.</p><p>D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.</p><p>E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion 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 unnamed tributaries to Big Creek.</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">Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:<ol style="list-style-type: none">Permanently ceased on any portion of the site, orTemporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.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.Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R 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 or R sheets.Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.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 or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.<p>b. Structural Practices</p><ol style="list-style-type: none">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.Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R 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 on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.</div>					
FILE NO.	ENGLISH	DESIGN TEAM	Snvder & Associates. Inc.	POLK COUNTY	PROJECT NUMBER	TAP-U-C077(249) -- 8I-77	SHEET NUMBER	RC.1	

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<div>110_12 1/13/23</div> <div>POLLUTION PREVENTION PLAN</div>				<div>110_12 1/13/23</div> <div>POLLUTION PREVENTION PLAN</div>					
<div><div><div><div>c. Storm Water Management</div><div>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 storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R 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. The installation of these devices may be subject to Section 404 of the Clean Water Act.</div></div></div><div><div>2. OTHER CONTROLS</div><div>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 laws, rules or regulations shall apply.</div><div><div>a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.</div><div>b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.</div><div>c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.</div><div>d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div></div><div><div>3. APPROVED STATE OR LOCAL PLANS</div><div>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.</div></div></div><div><div>IV. MAINTENANCE PROCEDURES</div><div>The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.</div></div><div><div>V. INSPECTION REQUIREMENTS</div><div><div>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:<div><div>1. Date of the inspection.</div><div>2. Summary of the scope of the inspection.</div><div>3. Name and qualifications of the personnel making the inspection.</div><div>5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.</div><div>6. Major observations related to the implementation of the PPP.</div><div>7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.</div></div></div><div>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.</div></div></div><div><div>VI. NON-STORM WATER DISCHARGES</div></div></div>				<div>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 III of the PPP.</div> <div>VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION</div> <div>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.</div> <div>VIII. DEFINITIONS</div> <div><div>A. Base PPP - Initial Pollution Prevention Plan.</div><div>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.</div><div>C. Fieldbook Entries - This contains the inspector’s daily diary and bid item postings.</div><div>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).</div><div>E. Signature Authority - Representative authorized to sign various storm water documents.</div></div> <div>-----</div> <div>CERTIFICATION STATEMENT</div> <div>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.</div> <div><div><div>Adam Fendrick</div><div>Signature</div></div><div><div>Adam Fendrick</div><div>Printed or Typed Name</div></div><div><div>Tyler N Jensen</div><div>Signature</div></div><div><div>Tyler Jensen</div><div>Printed or Typed Name</div></div></div>					
FILE NO.	ENGLISH	DESIGN TEAM	Snvder & Associates. Inc.	POLK COUNTY	PROJECT NUMBER	TAP-U-C077(249)--8I-77	SHEET NUMBER	RC.2	

11/20/2025 9:37:56 AM

#BXK15#MRALES-FOOTE@IOWAID

<div>TABULATION OF SILT FENCES</div> <div>Refer to EC-201</div> <div>100_17 8/15/22</div>					
Line No.	Station From	Station To	Side	Length (FT)	Remarks
1.0	132+87.54	138+80.49	Right	612.00	
2.0	140+82.78	156+93.87	Left	1612.00	
3.0	158+40.10	260+74.83	Right	260.00	
4.0	261+86.69	263+42.66	Right	152.00	
5.0	263+50.24	183+69.50	Right	2064.00	
6.0	187+70.33	198+13.91	Left	1056.00	
7.0	198+50.30	199+92.25	Left	325.00	

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE							
Possible Standards: EC-204							
Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1.0	134+49.34	134+49.34	Left	Perimeter and Slope	12 inch	25.00	Inlet Protection
2.0	142+29.60	142+29.60	Right	Perimeter and Slope	12 inch	19.00	Inlet Protection
3.0	146+80.00	146+80.00	Right	Perimeter and Slope	12 inch	19.00	Inlet Protection
4.0	147+25.00	147+25.00	Right	Ditch Check	12 inch	14.00	
5.0	147+75.00	147+75.00	Right	Ditch Check	12 inch	14.00	
6.0	148+25.00	148+25.00	Right	Ditch Check	12 inch	14.00	
7.0	148+75.00	148+75.00	Right	Ditch Check	12 inch	12.00	
8.0	150+30.00	150+30.00	Right	Ditch Check	12 inch	12.00	
9.0	151+20.00	151+20.00	Right	Ditch Check	12 inch	12.00	
10.0	152+10.00	152+10.00	Right	Perimeter and Slope	12 inch	13.00	Inlet Protection
11.0	153+00.00	153+00.00	Right	Ditch Check	12 inch	12.00	
12.0	153+90.00	153+90.00	Right	Ditch Check	12 inch	12.00	
13.0	154+95.00	154+95.00	Right	Ditch Check	12 inch	15.00	
14.0	155+40.00	155+40.00	Right	Ditch Check	12 inch	15.00	
15.0	155+85.00	155+85.00	Right	Ditch Check	12 inch	15.00	
16.0	156+30.00	156+30.00	Right	Ditch Check	12 inch	15.00	
17.0	156+75.00	156+75.00	Right	Ditch Check	12 inch	15.00	
18.0	156+95.00	156+95.00	Right	Ditch Check	12 inch	15.00	
19.0	157+15.00	157+15.00	Right	Ditch Check	12 inch	15.00	
20.0	157+35.00	157+35.00	Right	Ditch Check	12 inch	15.00	
21.0	157+55.00	157+55.00	Right	Ditch Check	12 inch	15.00	
22.0	157+73.00	157+73.00	Right	Ditch Check	12 inch	15.00	
23.0	157+90.00	157+90.00	Right	Ditch Check	12 inch	15.00	
24.0	157+98.00	158+24.00	Right	Perimeter and Slope	12 inch	36.00	
25.0	158+80.00	158+80.00	Left	Perimeter and Slope	12 inch	19.00	Inlet Protection
26.0	159+70.00	159+70.00	Left	Ditch Check	12 inch	12.00	
27.0	261+50.00	261+50.00	Left	Perimeter and Slope	12 inch	19.00	Inlet Protection
28.0	261+93.45	261+93.45	Left	Perimeter and Slope	12 inch	19.00	Inlet Protection
29.0	262+60.00	262+60.00	Left	Ditch Check	12 inch	14.00	
30.0	262+85.00	262+85.00	Left	Ditch Check	12 inch	14.00	
31.0	263+10.00	263+10.00	Left	Ditch Check	12 inch	14.00	
32.0	263+35.00	263+35.00	Left	Ditch Check	12 inch	14.00	
33.0	163+50.00	163+50.00	Left	Ditch Check	12 inch	14.00	
34.0	163+75.00	163+75.00	Left	Ditch Check	12 inch	14.00	
35.0	164+00.00	164+00.00	Left	Perimeter and Slope	12 inch	19.00	Inlet Protection
36.0	164+90.00	164+90.00	Left	Ditch Check	12 inch	14.00	
37.0	165+80.00	165+80.00	Left	Ditch Check	12 inch	14.00	
38.0	166+70.00	166+70.00	Left	Ditch Check	12 inch	14.00	
39.0	167+60.00	167+60.00	Left	Ditch Check	12 inch	14.00	
40.0	168+50.00	168+50.00	Left	Ditch Check	12 inch	14.00	
41.0	170+60.00	170+60.00	Left	Ditch Check	12 inch	14.00	
42.0	171+50.00	171+50.00	Left	Ditch Check	12 inch	14.00	
43.0	172+41.00	172+41.00	Left	Perimeter and Slope	12 inch	19.00	Inlet Protection
44.0	173+30.00	173+30.00	Left	Ditch Check	12 inch	17.00	
45.0	174+20.00	174+20.00	Left	Ditch Check	12 inch	17.00	
46.0	175+10.00	175+10.00	Left	Ditch Check	12 inch	17.00	
47.0	176+00.00	176+00.00	Left	Ditch Check	12 inch	17.00	
48.0	176+90.00	176+90.00	Left	Ditch Check	12 inch	17.00	
49.0	177+80.00	177+80.00	Left	Ditch Check	12 inch	17.00	
50.0	178+70.00	178+70.00	Left	Ditch Check	12 inch	17.00	
51.0	179+60.00	179+60.00	Left	Ditch Check	12 inch	17.00	
52.0	180+50.00	180+50.00	Left	Ditch Check	12 inch	17.00	
53.0	182+80.00	182+80.00	Left	Ditch Check	12 inch	15.00	
54.0	184+10.93	184+10.93	Left	Perimeter and Slope	12 inch	44.00	Inlet Protection
55.0	185+05.00	185+05.00	Right	Ditch Check	12 inch	12.00	

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE							
Possible Standards: EC-204							
Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
56.0	185+30.00	185+30.00	Left	Ditch Check	12 inch	15.00	
57.0	185+95.00	185+95.00	Right	Ditch Check	12 inch	12.00	
58.0	186+20.00	186+20.00	Left	Ditch Check	12 inch	15.00	
59.0	186+85.00	186+85.00	Right	Ditch Check	12 inch	12.00	
60.0	187+10.00	187+10.00	Left	Ditch Check	12 inch	15.00	
61.0	187+75.00	187+75.00	Right	Ditch Check	12 inch	12.00	
62.0	188+65.00	188+65.00	Right	Ditch Check	12 inch	12.00	
63.0	189+55.00	189+55.00	Right	Ditch Check	12 inch	12.00	
64.0	190+45.00	190+45.00	Right	Ditch Check	12 inch	12.00	
65.0	191+35.00	191+35.00	Right	Ditch Check	12 inch	12.00	
66.0	192+25.00	192+25.00	Right	Ditch Check	12 inch	12.00	
67.0	193+15.00	193+15.00	Right	Ditch Check	12 inch	12.00	
68.0	194+20.00	194+20.00	Right	Ditch Check	12 inch	14.00	
69.0	195+10.00	195+10.00	Right	Ditch Check	12 inch	14.00	
70.0	196+00.00	196+00.00	Right	Perimeter and Slope	12 inch	19.00	Inlet Protection
71.0	196+90.00	196+90.00	Right	Ditch Check	12 inch	14.00	
72.0	198+00.00	198+00.00	Right	Perimeter and Slope	12 inch	16.00	Inlet Protection
Total:						1122.00	

<div>ROLLED EROSION CONTROL</div> <div>Refer to EC-101, EC-103 and EC-104.</div>											100_22 8/15/22
Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	TRM Type (EC-104)	TRM Quantity (Squares)	Slope Protection (EC-103) (Squares)	Special Ditch Control (EC-101) (Squares)	Remarks
1.0	Polk City Junction Trail	142+20.00	142+40.00	Right	20.0	8.0				2.0	
2.0	Polk City Junction Trail	146+20.00	157+80.00	Right	1160.0	8.0				93.0	
3.0	Polk City Junction Trail	158+25.00	159+90.00	Right	165.0	16.0			26.0		
4.0	Polk City Junction Trail	158+80.00	260+75.00	Left	195.0	8.0				16.0	
5.0	Polk City Junction Trail	262+25.00	187+80.00	Left	2566.0	11.0				283.0	
6.0	Polk City Junction Trail	184+00.00	193+50.00	Right	950.0	8.0				76.0	
7.0	Polk City Junction Trail	193+50.00	197+50.00	Right	400.0	8.0				32.0	
8.0	Polk City Junction Trail	198+00.00	199+40.00	Right	140.0	8.0				11.0	
9.0	Polk City Junction Trail	198+25.00	199+92.00	Left	167.0	8.0			13.0		

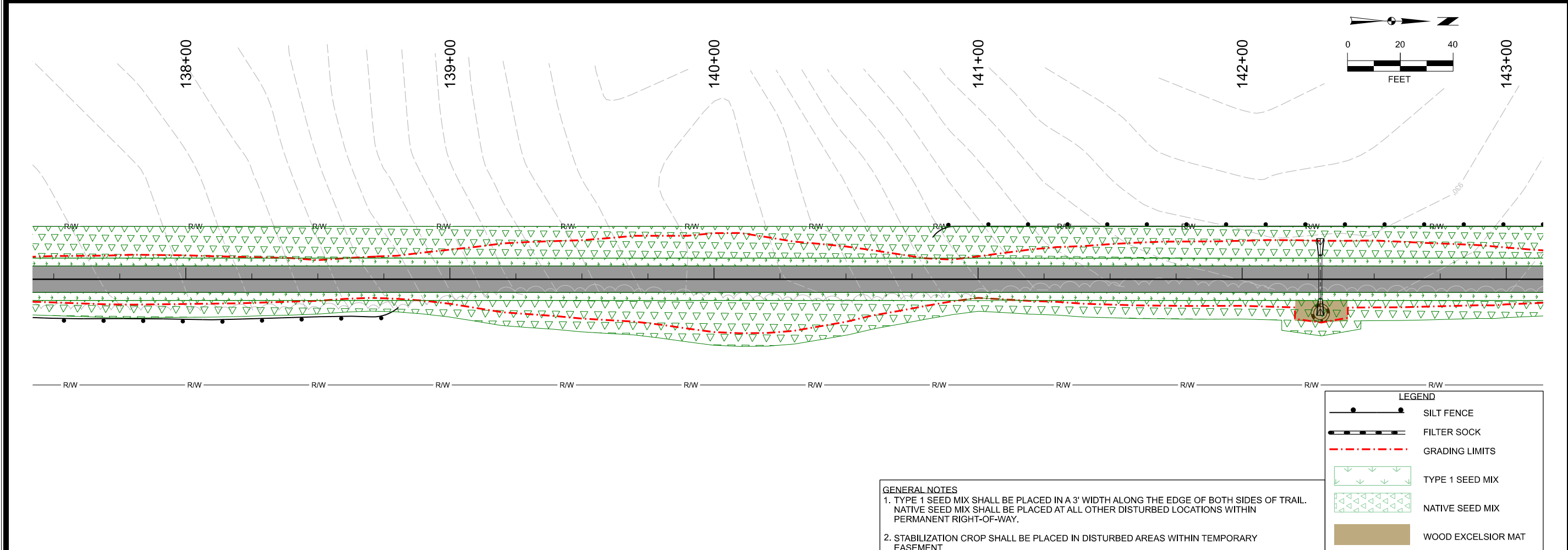
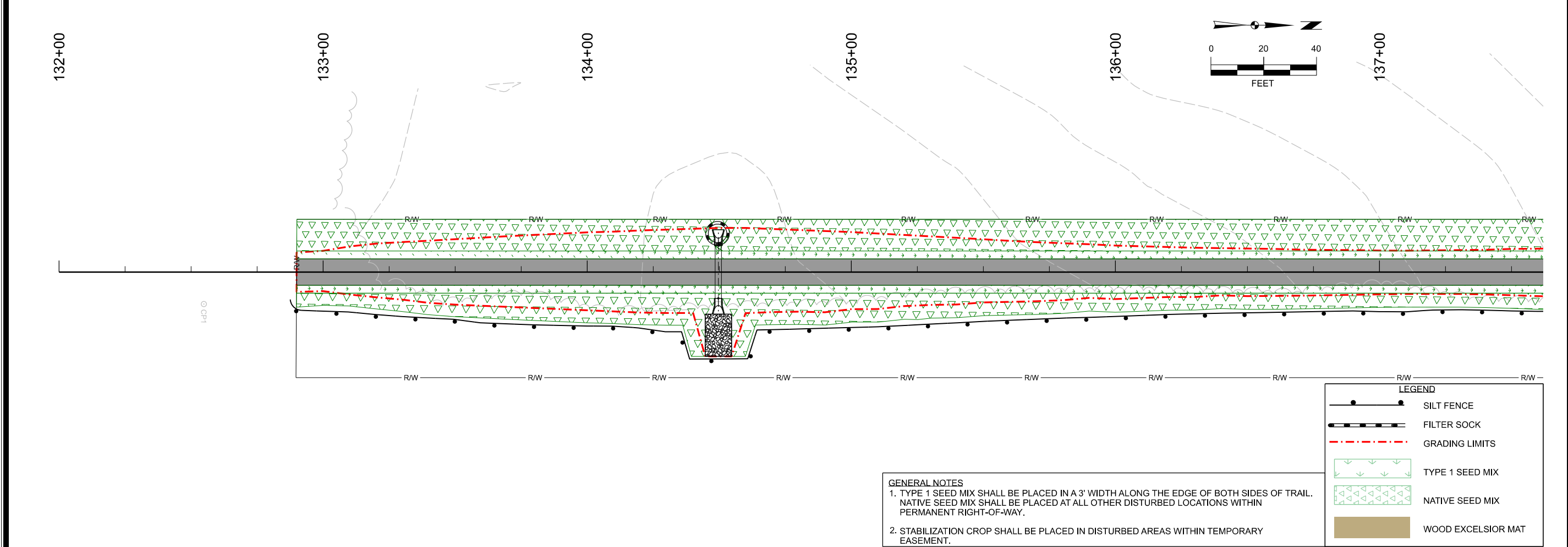
ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

100_23
8/15/22

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Erosion Stone (TON)	Remarks
1.0	Polk City Junction Trail	134+44.65	134+54.65	Right	10.00	16.0	Type 4 - Rock Splash Basin	30.0	14.500		
2.0	Polk City Junction Trail	163+95.56	164+04.44	Right	9.00	12.0	Type 4 - Rock Splash Basin	22.0	10.000		
3.0	Polk City Junction Trail	172+37.28	172+44.72	Right	7.50	12.0	Type 4 - Rock Splash Basin	21.0	9.000		
4.0	Polk City Junction Trail	183+69.22	184+00.59	Right	31.37	11.0	Type 4 - Rock Splash Basin	59.0	29.500		

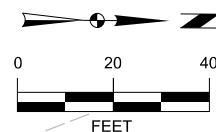
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POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR		POLK COUNTY, IOWA	
EROSION CONTROL PLAN SHEETS			
SNYDER & ASSOCIATES, INC.		2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM	
Project No: 1241375		Sheet RR.1	

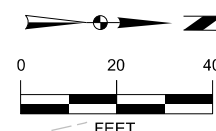
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Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: JDS	Date: 12/2/2025	T-R-S:	
DOT: TAB-L-0077(249)-8-77		Project No: 1241375	
Sheet		RR.1	

SNYDER & ASSOCIATES



LEGEND

-  SILT FENCE
-  FILTER SOCK
-  GRADING LIMITS
-  TYPE 1 SEED MIX
-  STABILIZATION CROP
-  NATIVE SEED MIX
-  WOOD EXCELSIOR MAT



LEGEND

The legend defines the symbols used in the cross-section diagram:

- SILT FENCE:** Represented by a horizontal line with two black dots above it.
- FILTER SOCK:** Represented by a horizontal line with alternating black and white segments.
- GRADING LIMITS:** Represented by a horizontal line with alternating red and white segments.
- TYPE 1 SEED MIX:** Represented by a green rectangular area containing several green downward-pointing arrows.
- STABILIZATION CROP:** Represented by a blue rectangular area containing several blue upward-pointing triangles.
- NATIVE SEED MIX:** Represented by a green rectangular area containing several green upward-pointing triangles.
- WOOD EXCELSIOR MAT:** Represented by a solid brown rectangular area.

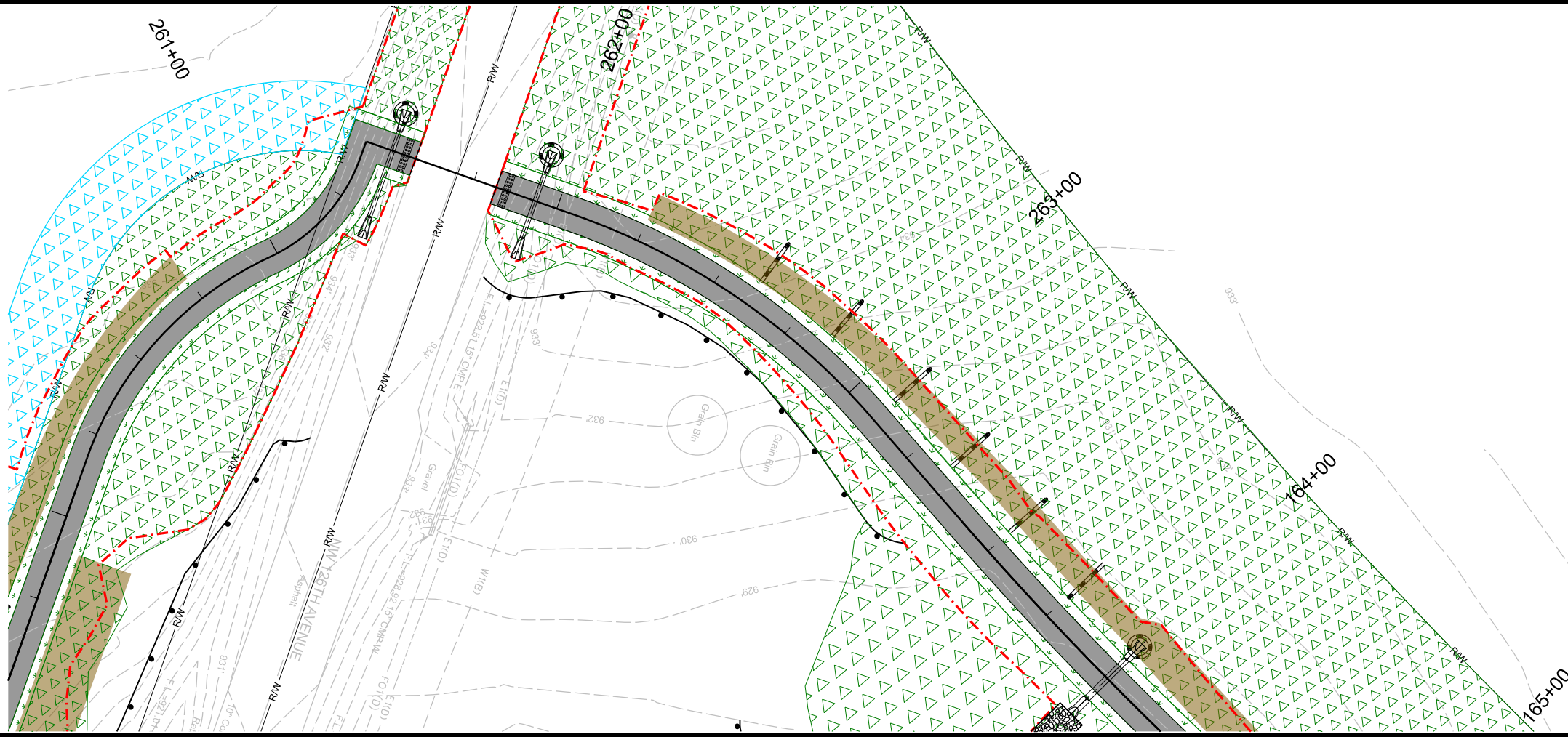
Sheet RR.2



Project No: 1241375

Sheet RR.2

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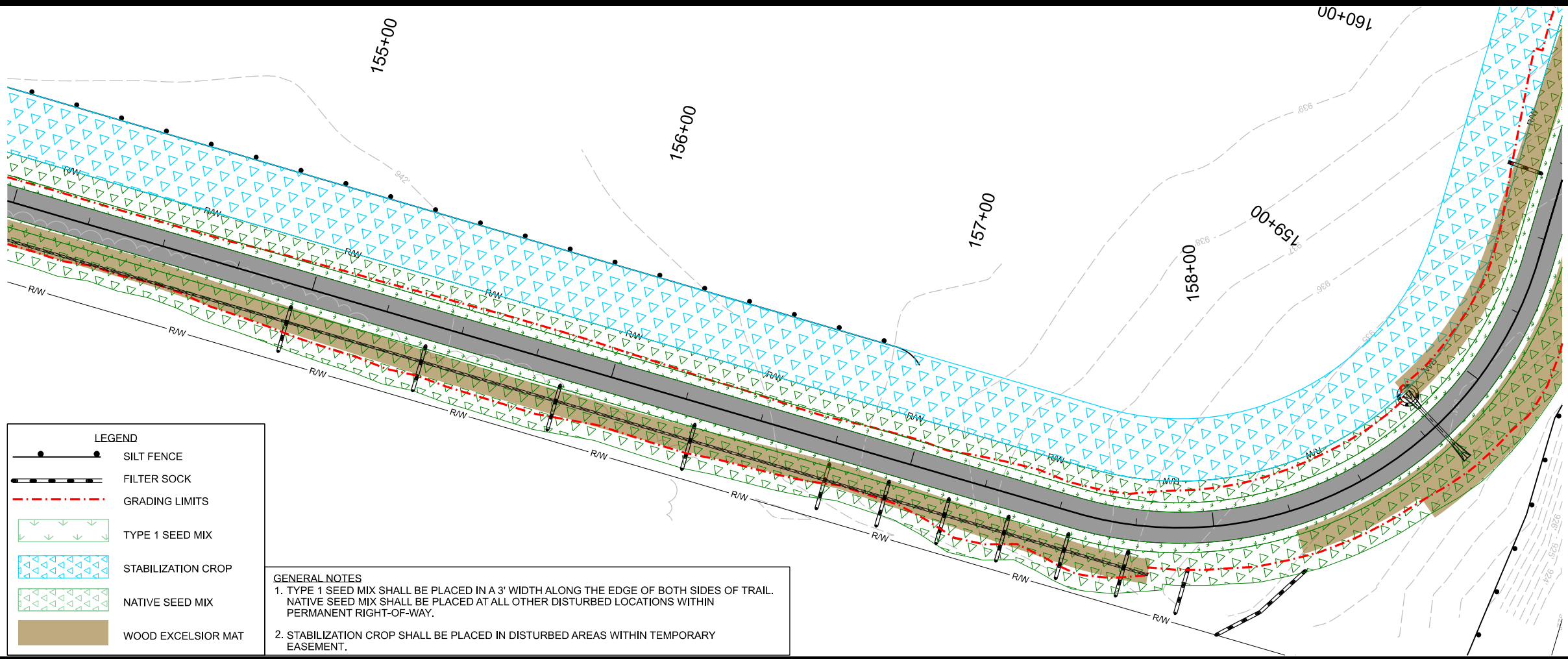
GENERAL NOTES

1. TYPE 1 SEED MIX SHALL BE PLACED IN A 3' WIDTH ALONG THE EDGE OF BOTH SIDES OF TRAIL. NATIVE SEED MIX SHALL BE PLACED AT ALL OTHER DISTURBED LOCATIONS WITHIN PERMANENT RIGHT-OF-WAY.

2. STABILIZATION CROP SHALL BE PLACED IN DISTURBED AREAS WITHIN TEMPORARY EASEMENT.

LEGEND

- SILT FENCE
- FILTER SOCK
- GRADING LIMITS
- TYPE 1 SEED MIX
- STABILIZATION CROP
- NATIVE SEED MIX
- WOOD EXCELSIOR MAT




LEGEND

- SILT FENCE
- FILTER SOCK
- GRADING LIMITS
- TYPE 1 SEED MIX
- STABILIZATION CROP
- NATIVE SEED MIX
- WOOD EXCELSIOR MAT

GENERAL NOTES

1. TYPE 1 SEED MIX SHALL BE PLACED IN A 3' WIDTH ALONG THE EDGE OF BOTH SIDES OF TRAIL. NATIVE SEED MIX SHALL BE PLACED AT ALL OTHER DISTURBED LOCATIONS WITHIN PERMANENT RIGHT-OF-WAY.

2. STABILIZATION CROP SHALL BE PLACED IN DISTURBED AREAS WITHIN TEMPORARY EASEMENT.



SNYDER & ASSOCIATES

Project No: 1241375

Sheet **RR.3**

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

EROSION CONTROL PLAN SHEETS

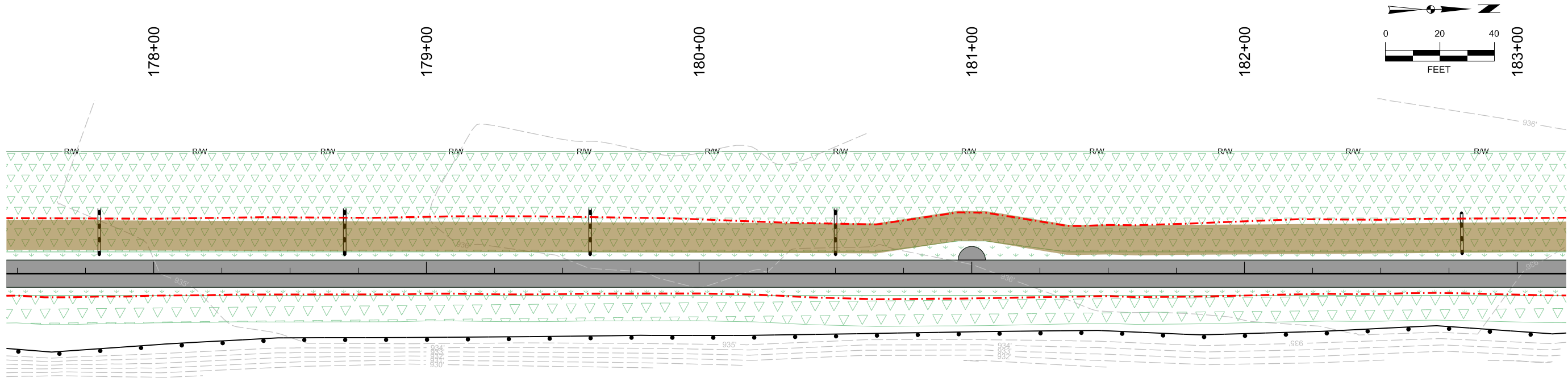
POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

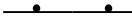





2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

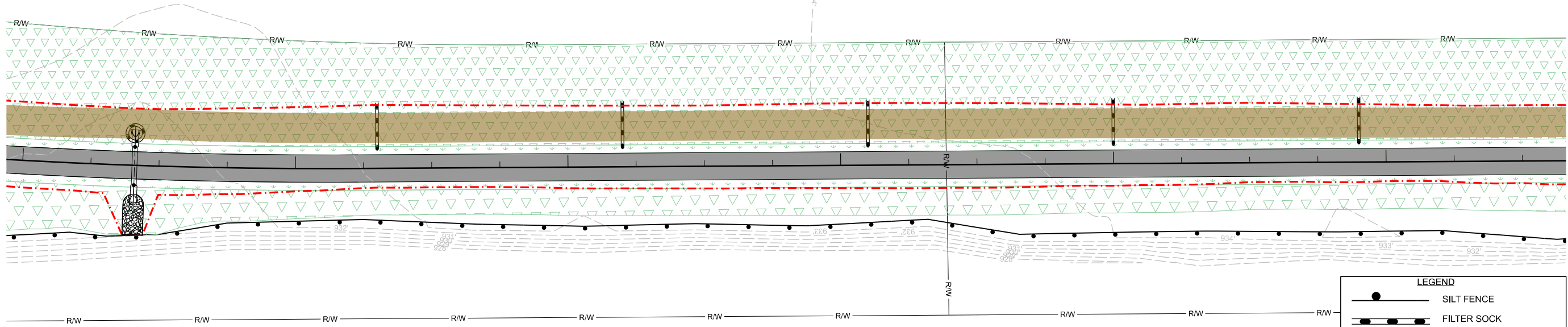
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Engineer: AMF	Checked By: TNU	11-20	
Technician: IDS	Date: 12/2/2025	T-R-S:	
DOT: TAB-L-0077(249)-8-77		Project No: 1241375	
Sheet		RR.3	

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- GENERAL NOTES**
1. TYPE 1 SEED MIX SHALL BE PLACED IN A 3' WIDTH ALONG THE EDGE OF BOTH SIDES OF TRAIL. NATIVE SEED MIX SHALL BE PLACED AT ALL OTHER DISTURBED LOCATIONS WITHIN PERMANENT RIGHT-OF-WAY.
 2. STABILIZATION CROP SHALL BE PLACED IN DISTURBED AREAS WITHIN TEMPORARY EASEMENT.

LEGEND	
	SILT FENCE
	FILTER SOCK
	GRADING LIMITS
	TYPE 1 SEED MIX
	NATIVE SEED MIX
	WOOD EXCELSIOR MAT



- GENERAL NOTES**
1. TYPE 1 SEED MIX SHALL BE PLACED IN A 3' WIDTH ALONG THE EDGE OF BOTH SIDES OF TRAIL. NATIVE SEED MIX SHALL BE PLACED AT ALL OTHER DISTURBED LOCATIONS WITHIN PERMANENT RIGHT-OF-WAY.
 2. STABILIZATION CROP SHALL BE PLACED IN DISTURBED AREAS WITHIN TEMPORARY EASEMENT.

LEGEND	
	SILT FENCE
	FILTER SOCK
	GRADING LIMITS
	TYPE 1 SEED MIX
	NATIVE SEED MIX
	WOOD EXCELSIOR MAT



Project No: 1241375

Sheet RR.5

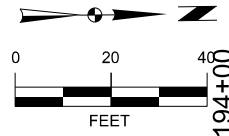
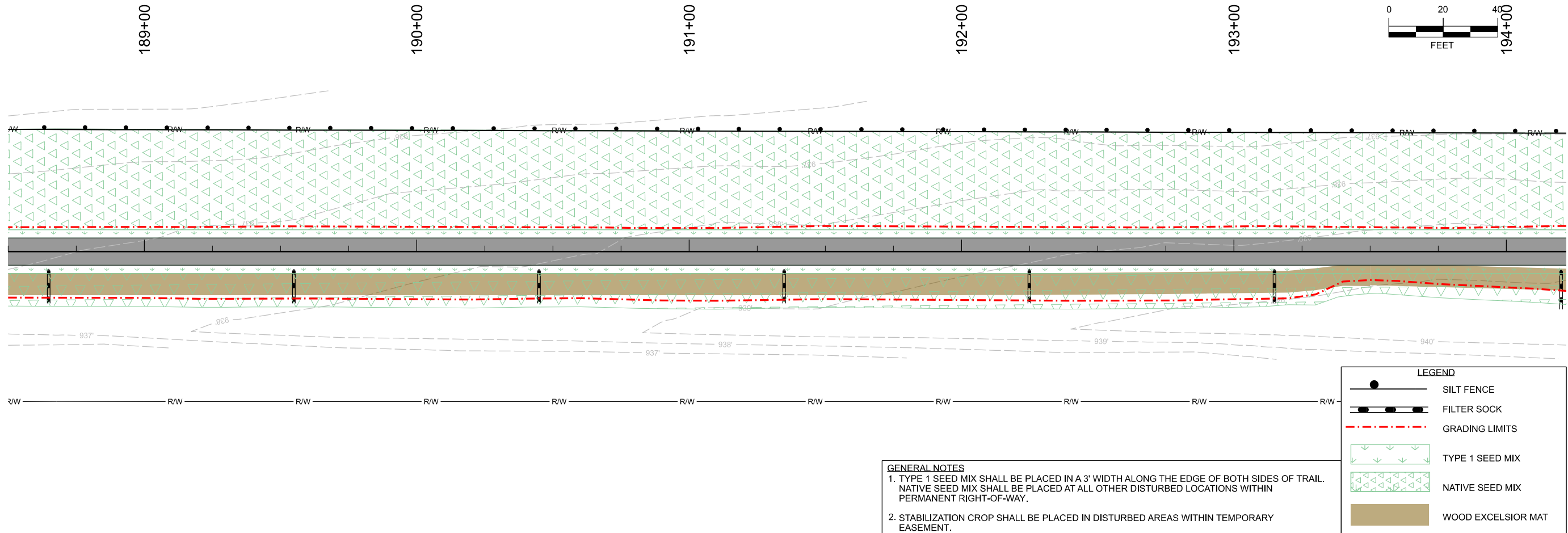
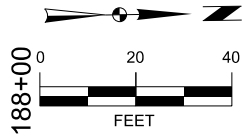
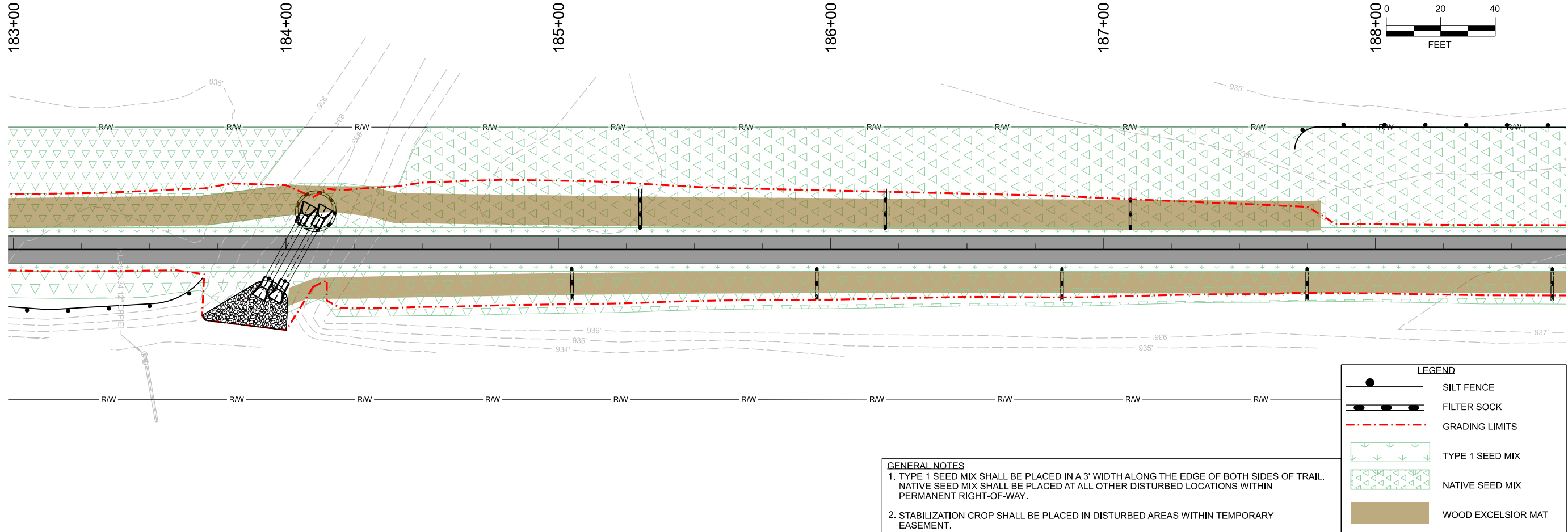
POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

EROSION CONTROL PLAN SHEETS

POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.
2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNU	Scale: 1"= 20'	
Technician: IDS	Date: 12/2/2025	T-R-S:	
DOT: TAB-L-077(249)-8-77	Project No: 1241375	Sheet	RR.5



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

EROSION CONTROL PLAN SHEETS

POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM



Project No: 1241375

Sheet RR.6

MARK

Engineer: AMF

Checked By: TNU

DATE: 1/1/20

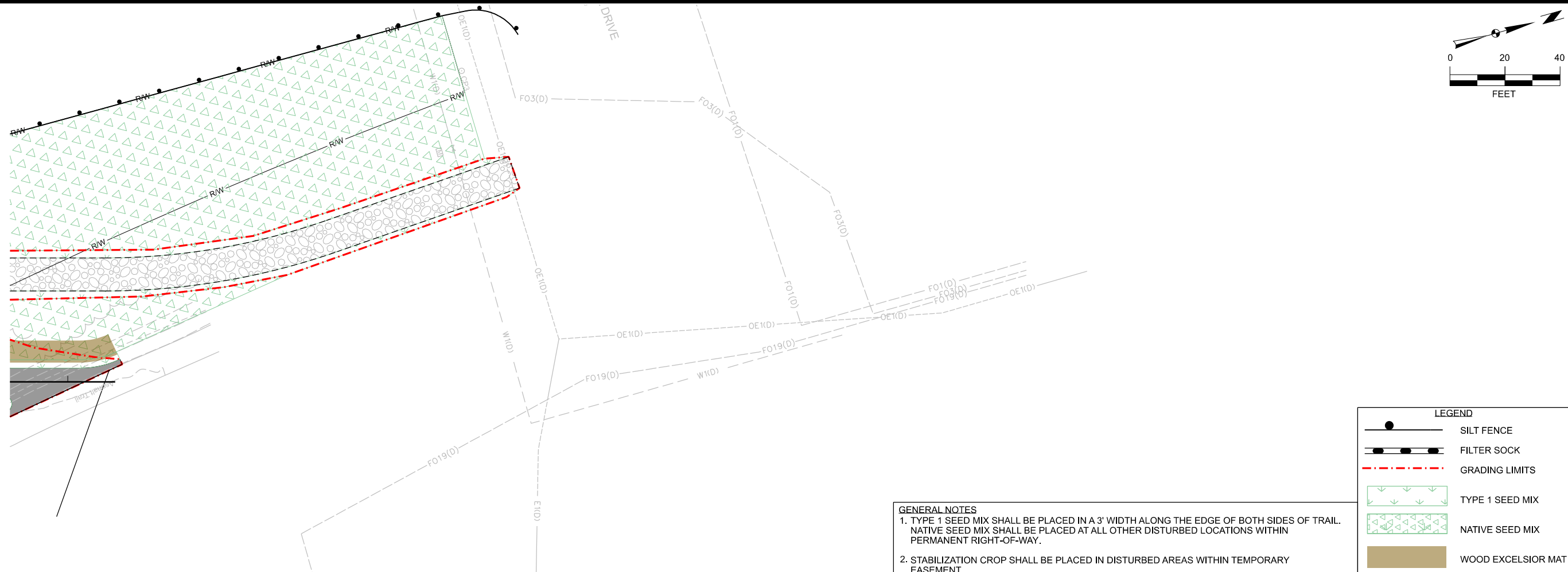
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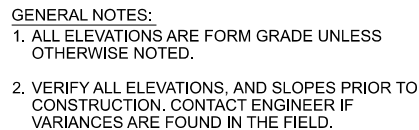
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DOT: TAB-L-077(2/09)-8/77

Project No: 1241375

Sheet RR.6





 SNYDER & ASSOCIATES	Project No: 1241375		Sheet S.1	
	POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR PEDESTRIAN RAMP SHEET SNYDER & ASSOCIATES, INC.			
	POLK COUNTY, IOWA 2727 SW SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 WWW.SNYDER-ASSOCIATES.COM			
	MARK: _____ Engineer: AMF Technician: JDS		REVISION: _____ Checked By: TJN Date: 12/2/2025 Scale: 1"= 10' Field Bk: _____ Pg: _____	

113_10
6/18/25

SIDEWALK COMPLIANCE
See S Sheets

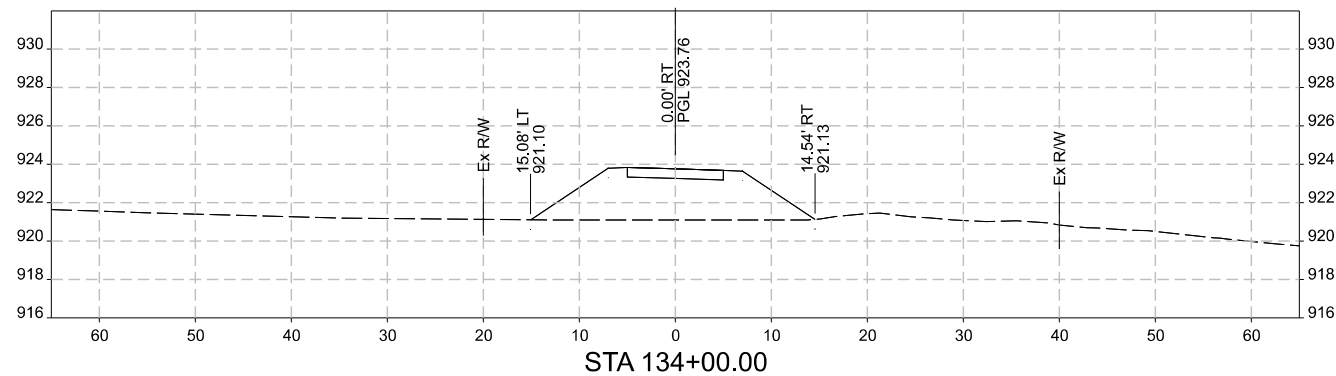
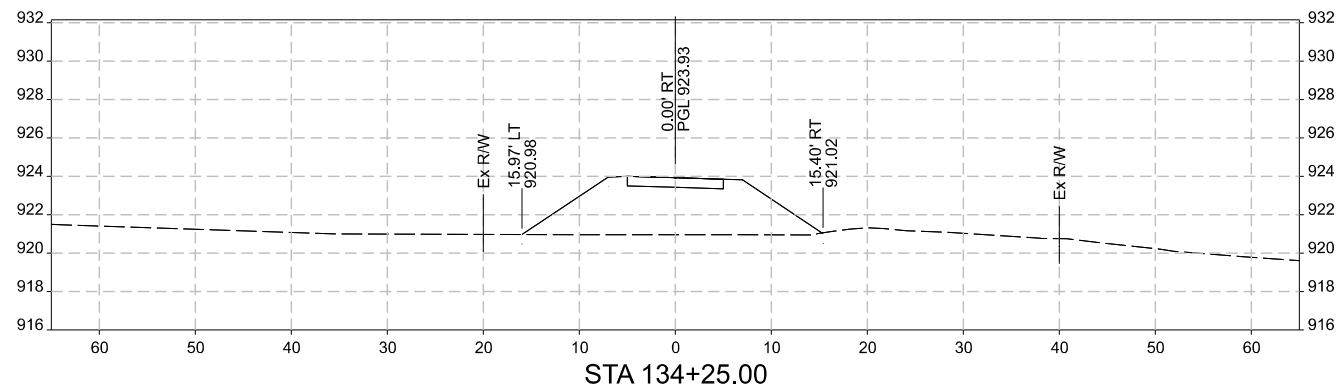
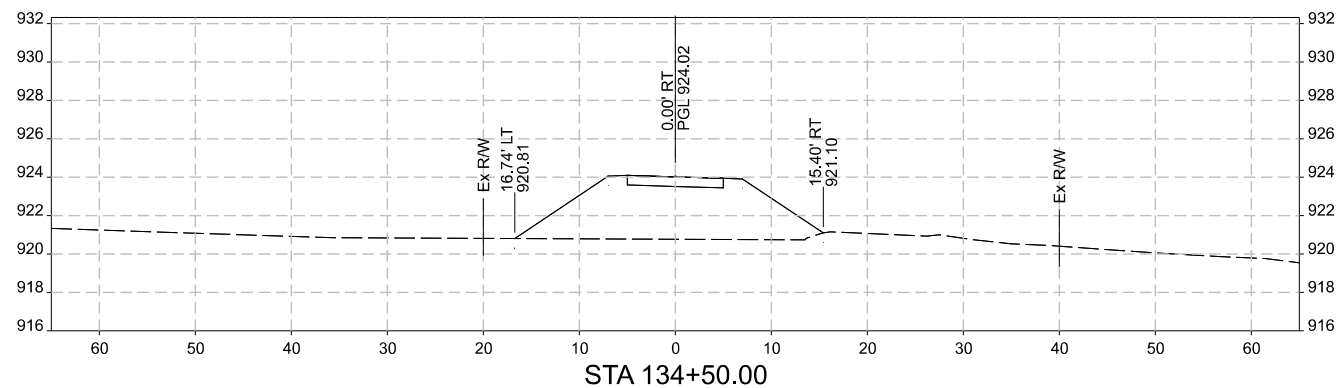
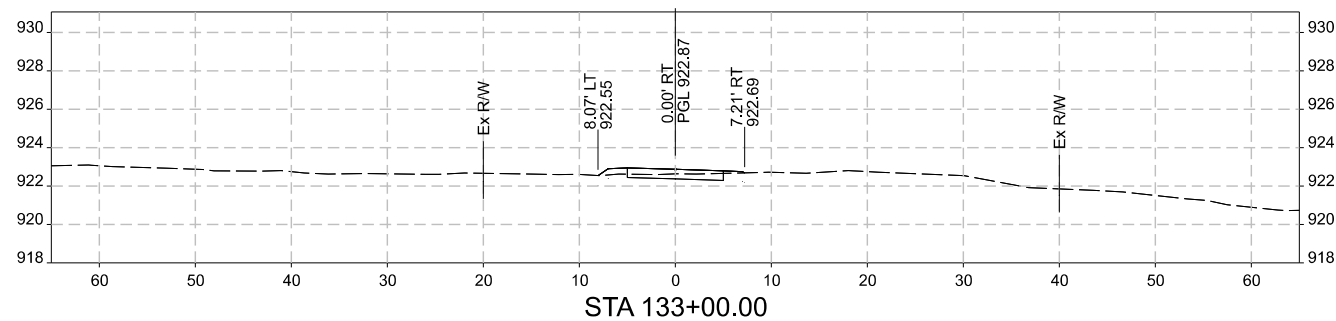
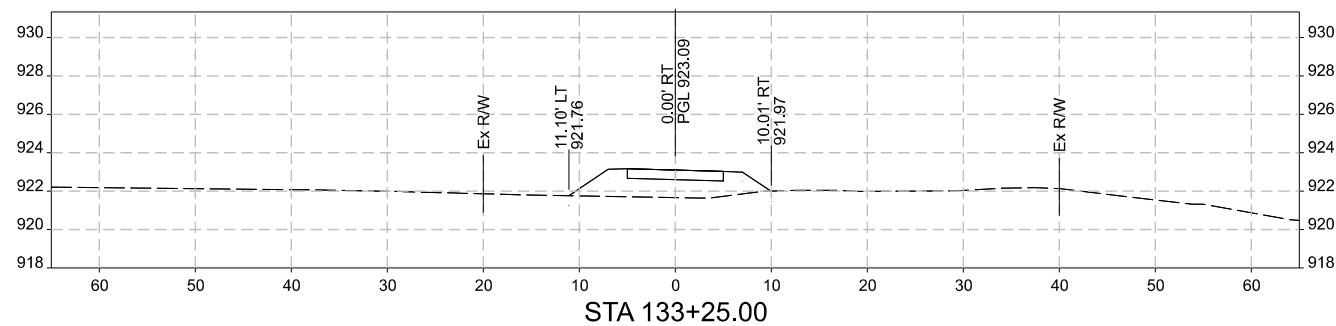
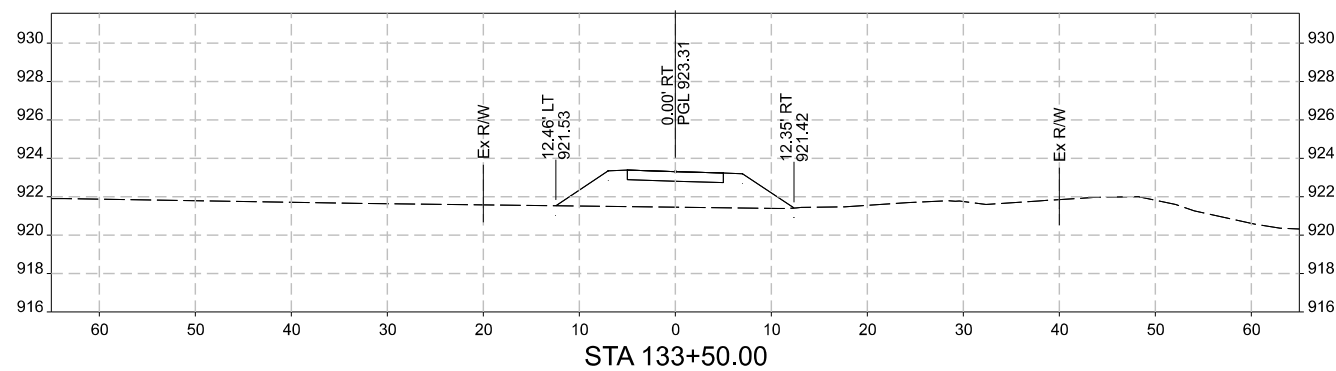
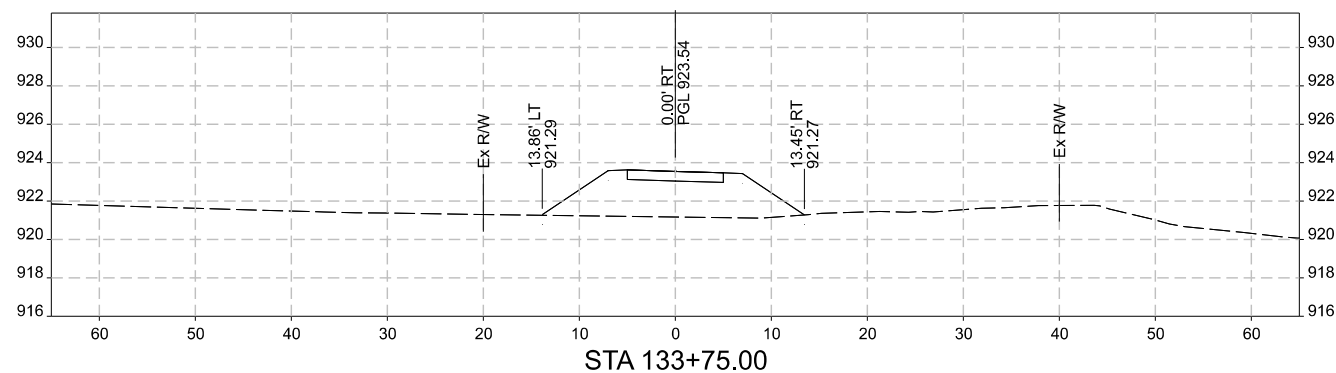
* Does not include curb

1. Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

2. Refer to tabulation 113-01 for bid quantities.

3. See Tab 113-10A for point location information.

Roadway Identification	From Point	Ending Point	Sidewalk Designation	Sidewalk Thickness (IN)	Distance* (FT)	Change in Elevation (FT)	Slope (%)	Acceptable Constructed Range	Staking Required? (1)	Measured Slope (%)	Initials	Remarks
Polk City Junction Trail	S0001	S0002	Ramp Running Slope	6	2.00	0.12	6.0	0.1% to 2.0%				
Polk City Junction Trail	S0002	S0007	Ramp Cross Slope	6	10.00	0.05	0.5	0.1% to 2.0%				
Polk City Junction Trail	S0002	S0003	Ramp Running Slope	6	8.00	0.46	5.8					
Polk City Junction Trail	S0003	S0006	Ramp Cross Slope	6	10.00	-0.15	-1.5					
Polk City Junction Trail	S0003	S0004	Landing/Turning Space	6	10.00	0.15	1.5					
Polk City Junction Trail	S0004	S0005	Landing/Turning Space	6	10.00	-0.15	-1.5	0.1% to 2.0%				
Polk City Junction Trail	S0005	S0006	Landing/Turning Space	6	10.00	-0.15	-1.5	Match Existing				
Polk City Junction Trail	S0006	S0007	Ramp Running Slope	6	8.00	-0.26	-3.2	0.1% to 2.0%				
Polk City Junction Trail	S0007	S0008	Ramp Running Slope	6	2.00	-0.07	-3.5	0.1% to 2.0%				
Polk City Junction Trail	S0008	S0001	Ramp Cross Slope	6	10.00	-0.10	-1.0					
Polk City Junction Trail	S1001	S1002	Ramp Running Slope	6	2.00	0.14	7.0					
Polk City Junction Trail	S1002	S1007	Ramp Cross Slope	6	10.00	-0.11	-1.1					
Polk City Junction Trail	S1002	S1003	Ramp Running Slope	6	8.00	0.57	7.1	0.1% to 2.0%				
Polk City Junction Trail	S1003	S1006	Ramp Cross Slope	6	10.00	-0.15	-1.5	Match Existing				
Polk City Junction Trail	S1003	S1004	Landing/Turning Space	6	10.00	-0.16	-1.6					
Polk City Junction Trail	S1004	S1005	Landing/Turning Space	6	10.00	-0.15	-1.5					
Polk City Junction Trail	S1005	S1006	Landing/Turning Space	6	10.00	0.16	1.6					
Polk City Junction Trail	S1006	S1007	Ramp Running Slope	6	8.00	-0.53	-6.6					
Polk City Junction Trail	S1007	S1008	Ramp Running Slope	6	2.00	-0.13	-6.5					
Polk City Junction Trail	S1008	S1001	Ramp Cross Slope	6	10.00	0.10	1.0					



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

POLK COUNTY, IOWA

MAINLINE CROSS SECTIONS

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2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

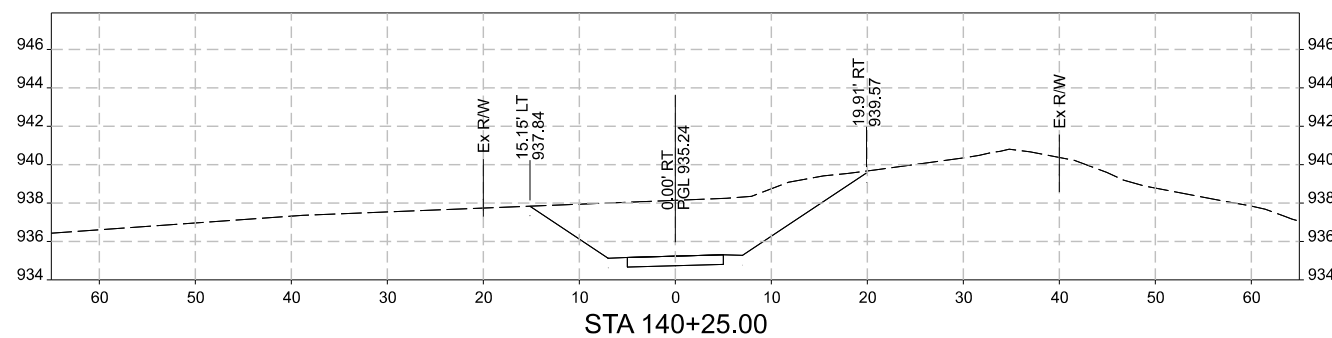
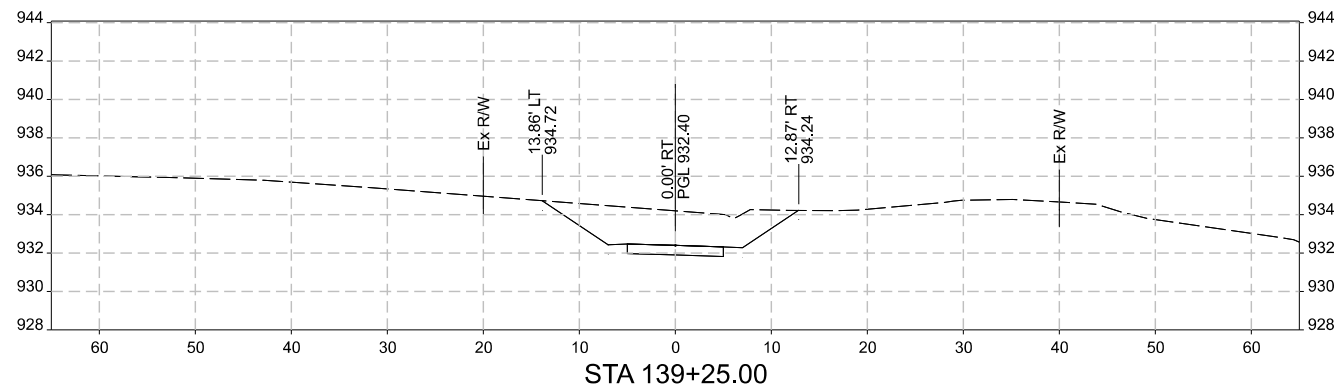
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Project No: 1241375

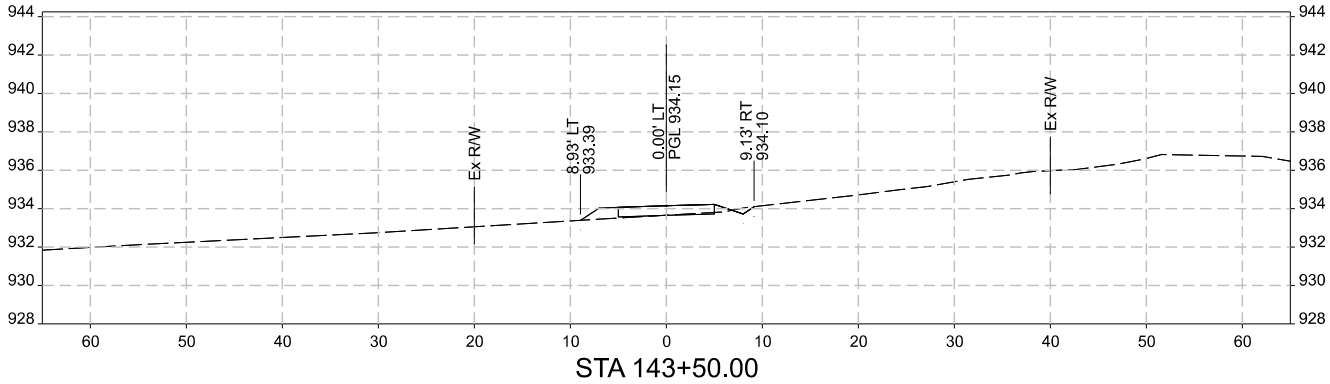
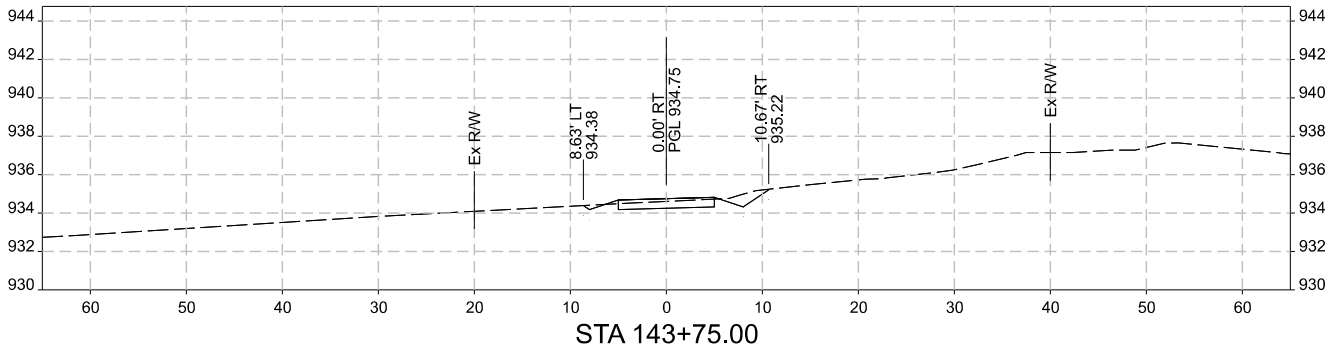
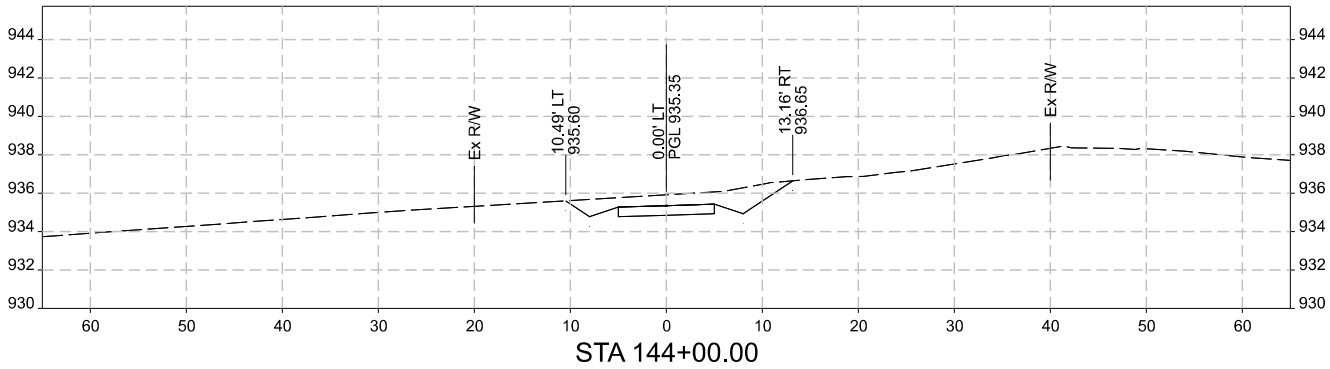
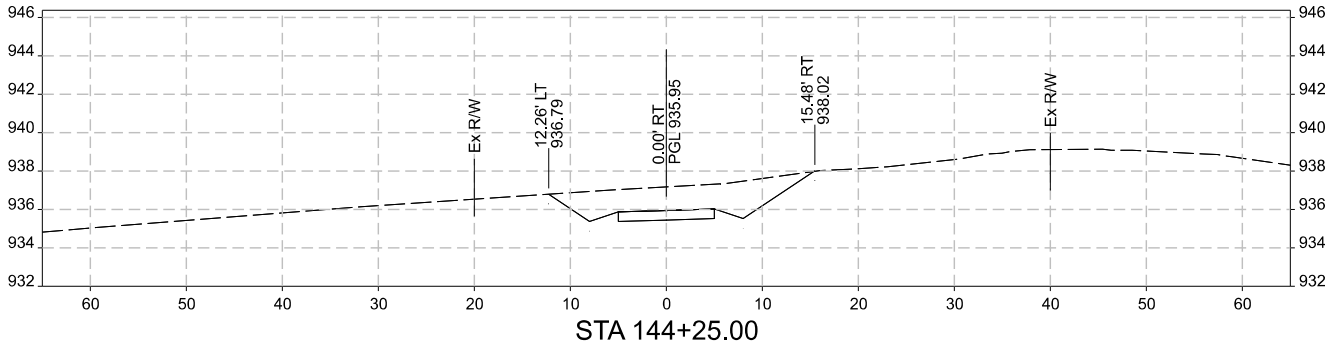
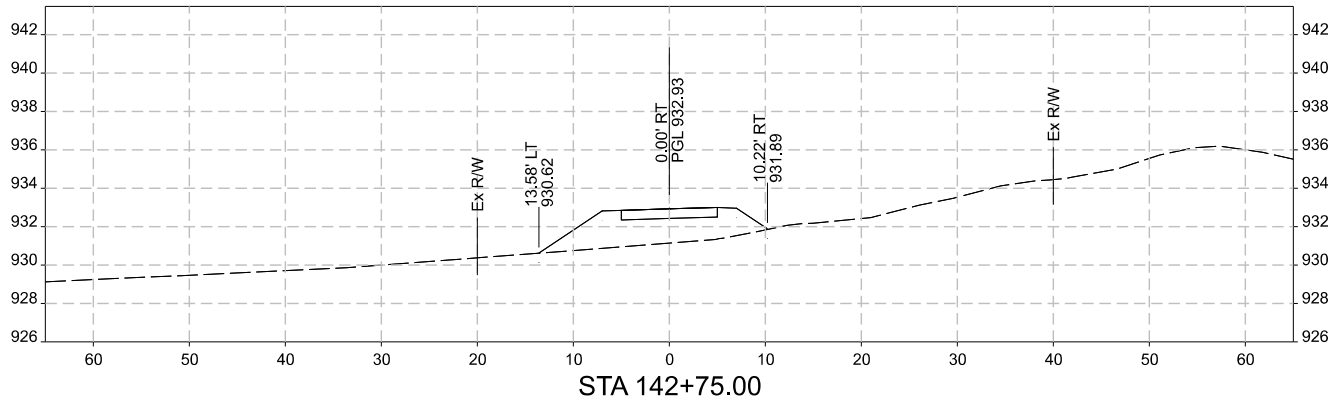
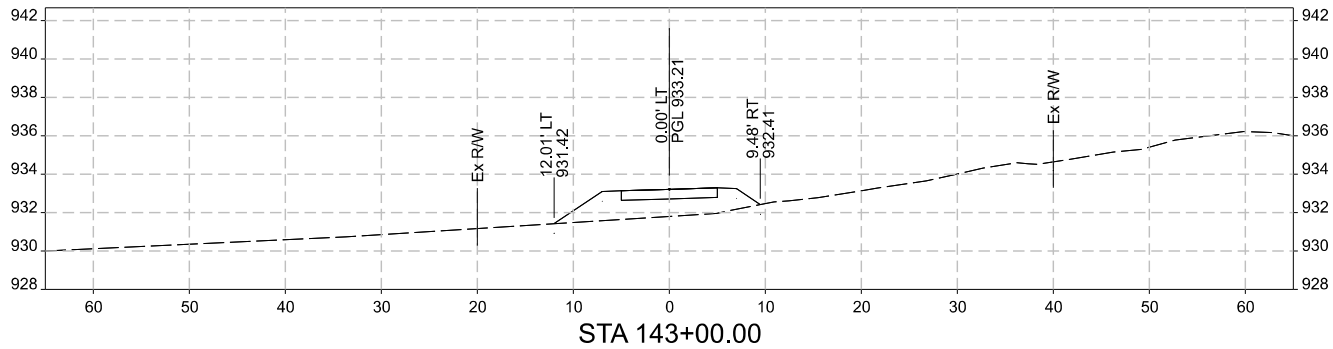
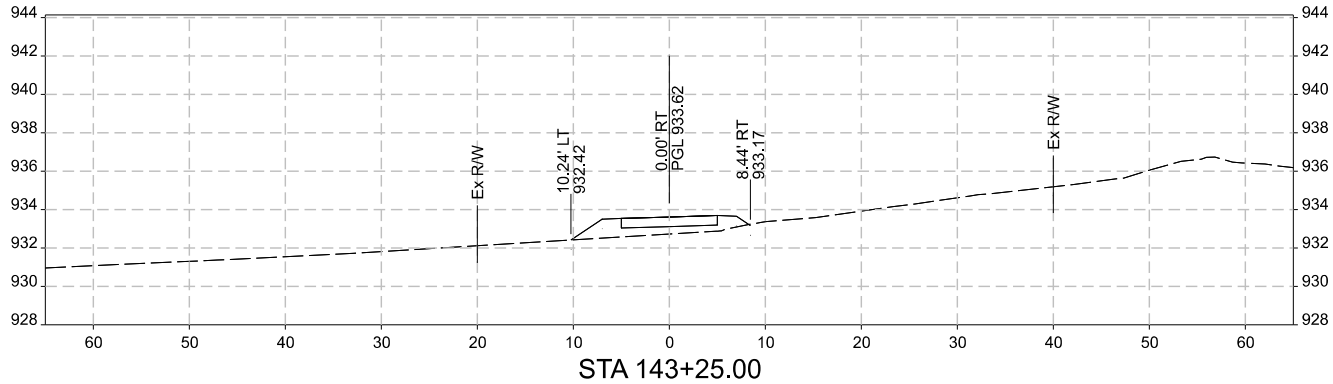
Sheet W.1

SNYDER & ASSOCIATES, INC.

Sheet W.4



Sheet W.6



MARK

Engineer: AMF

Technician: JDS

REVISION

Checked By: TNU

Date: 12/2/2025

DATE

1"= 10'

Field Bk:

BY

Scale:

Pg:

Sheet

W.7

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

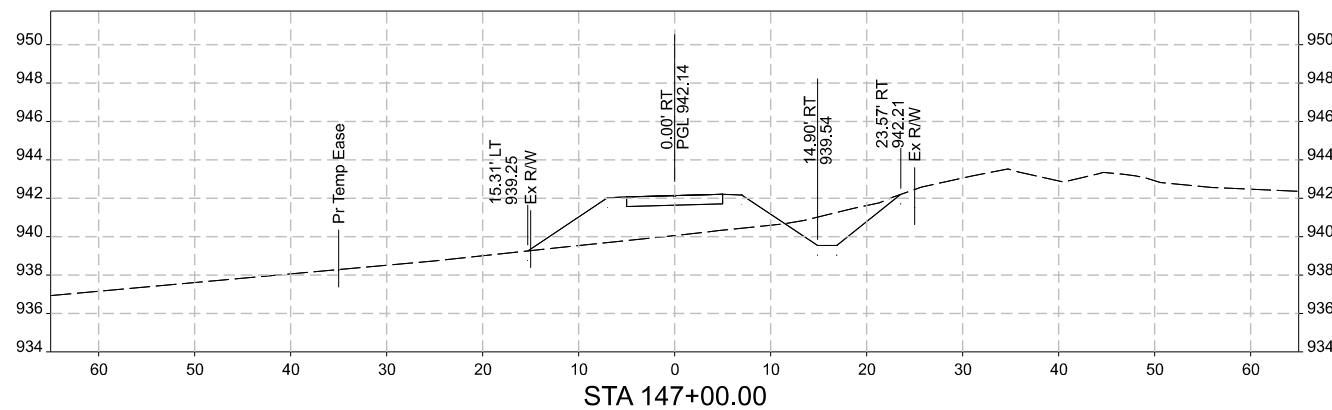
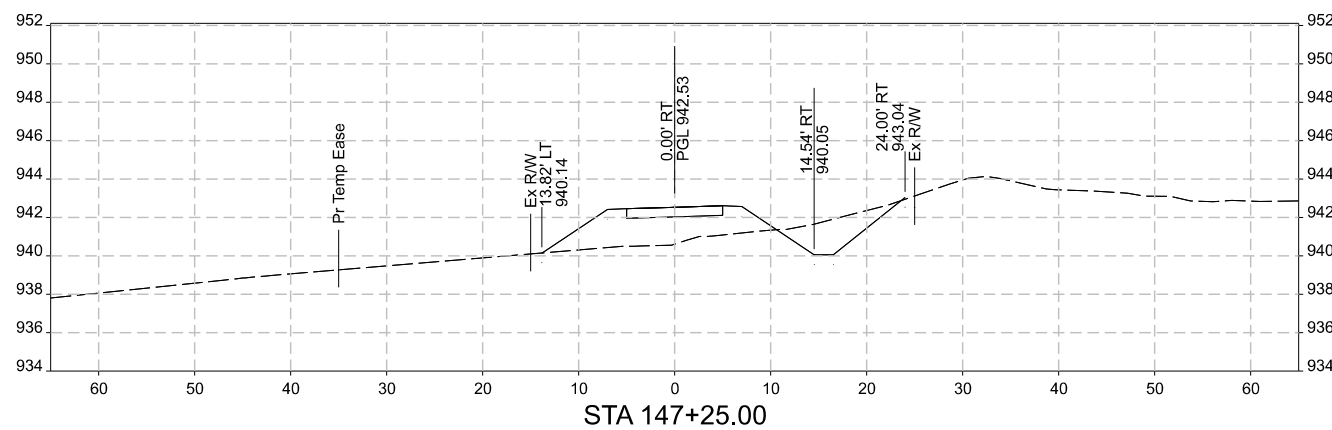
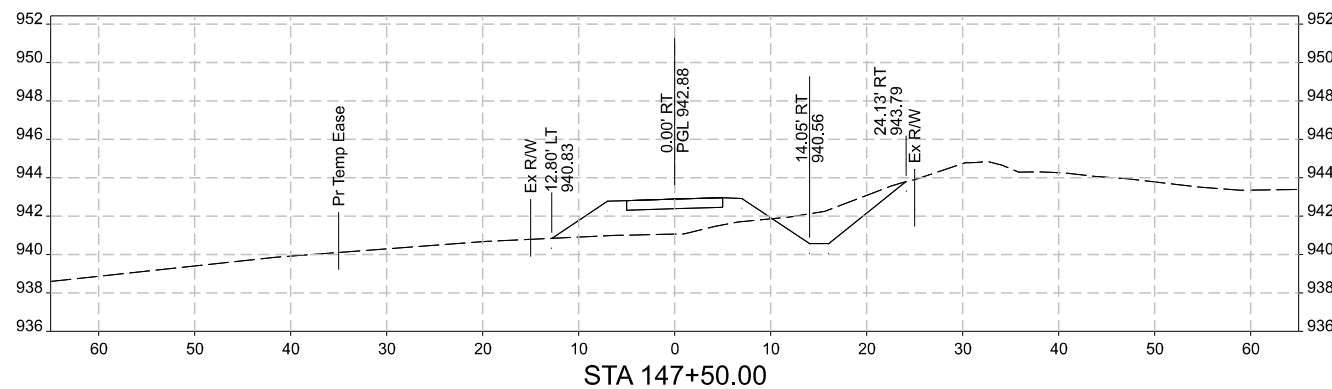
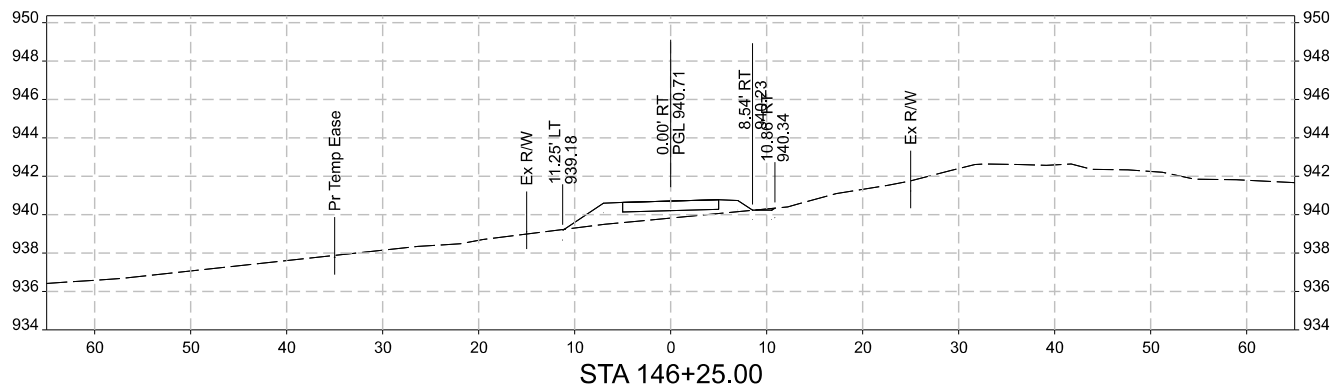
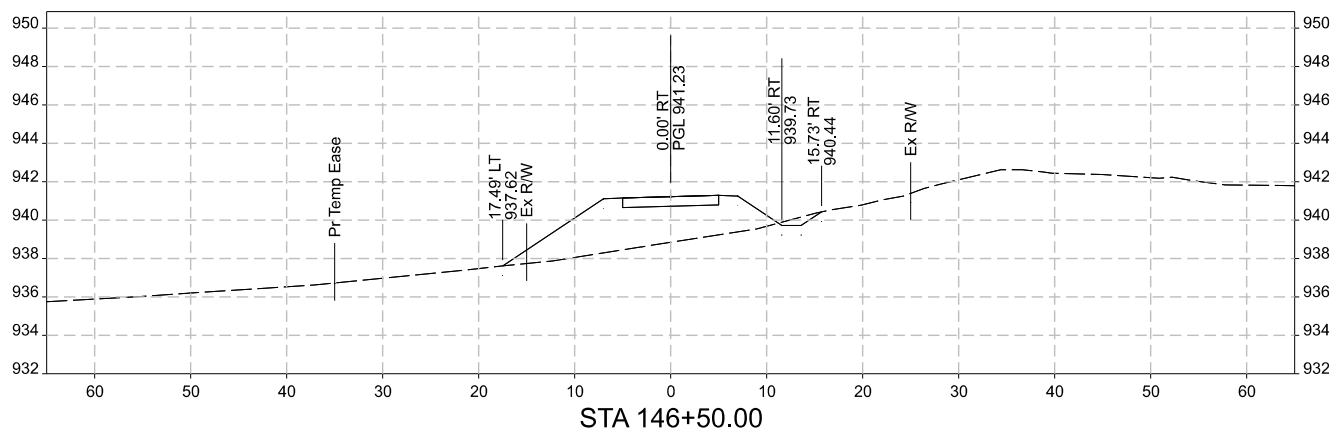
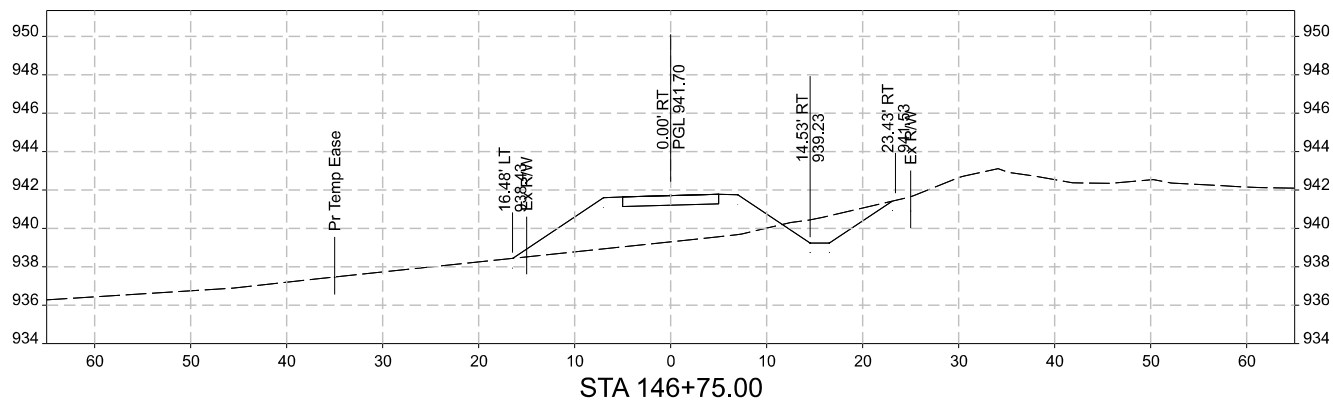
POLK COUNTY, IOWA

SNYDER & ASSOCIATES

2727 SW SNYDER BLVD
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Project No: 1241375

Sheet W.7

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POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

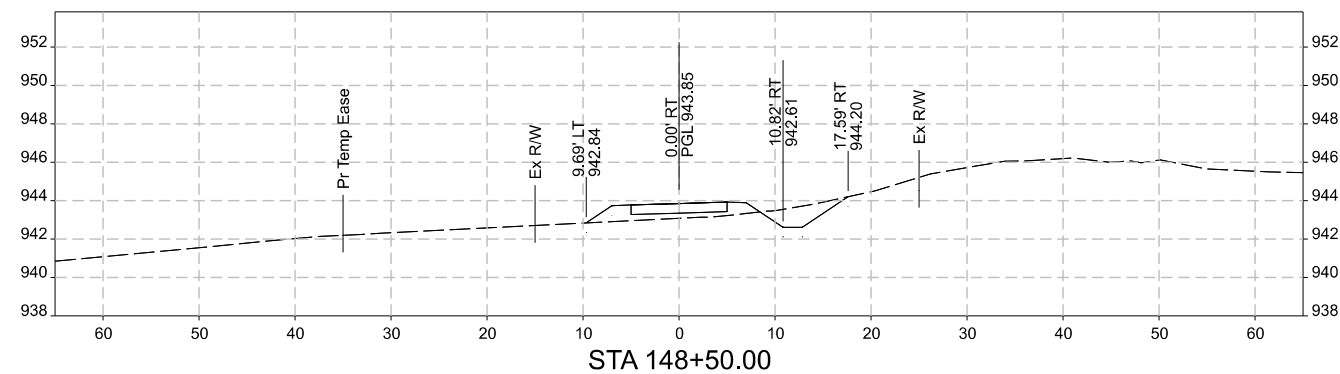
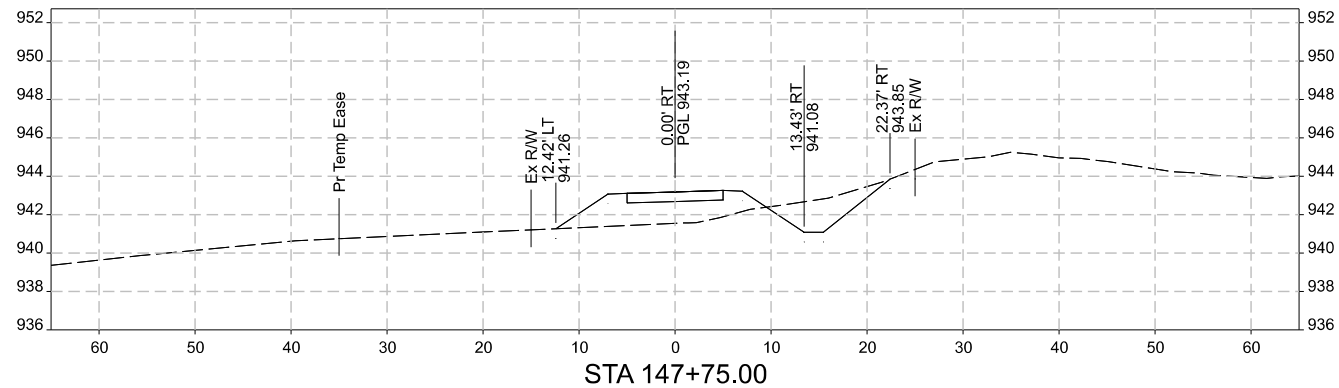
POLK COUNTY, IOWA

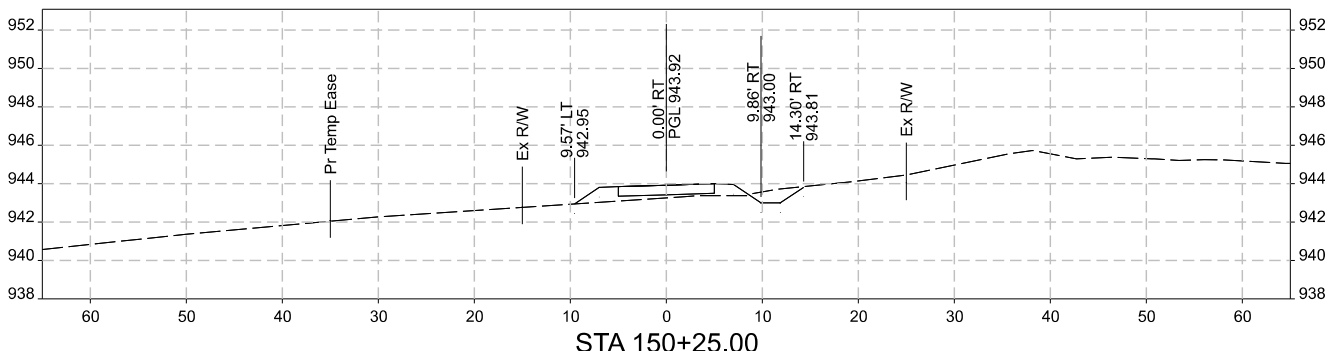
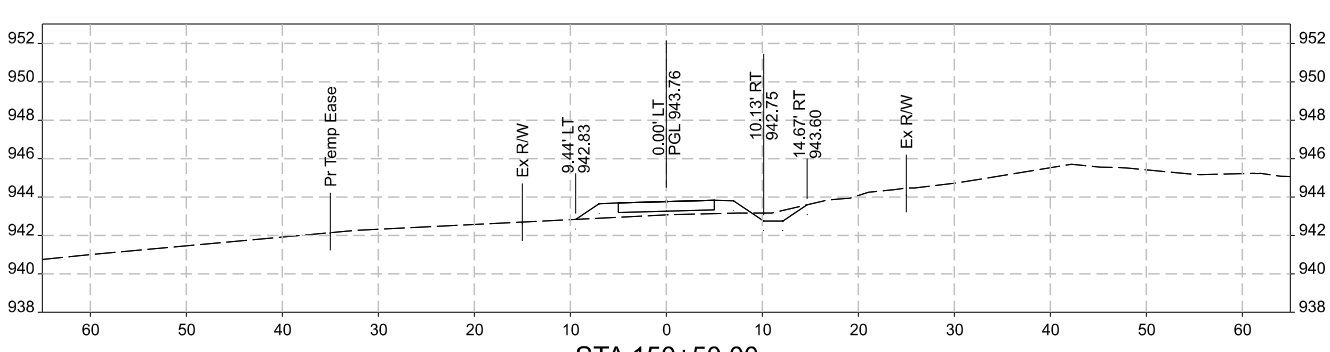
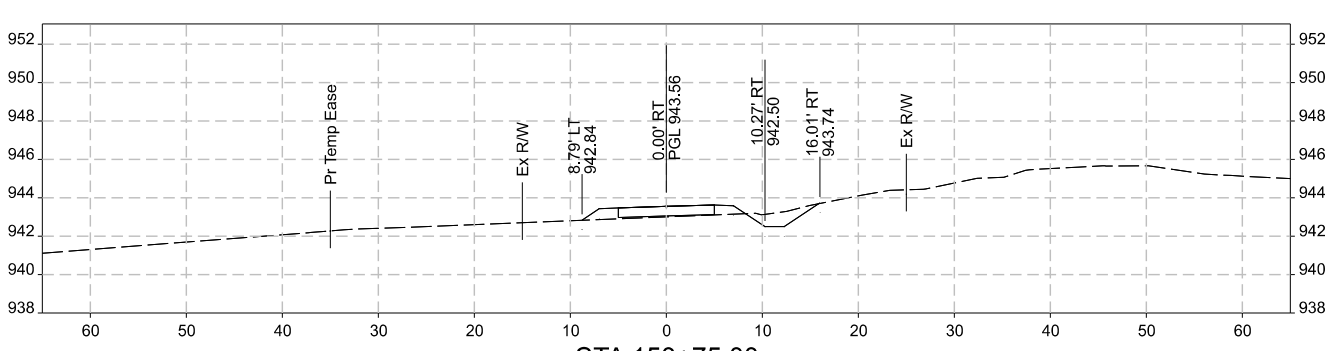
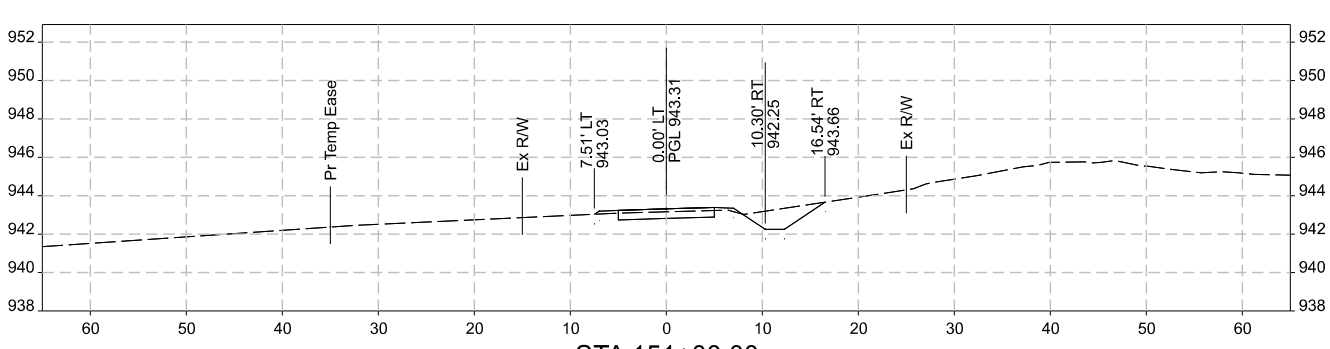
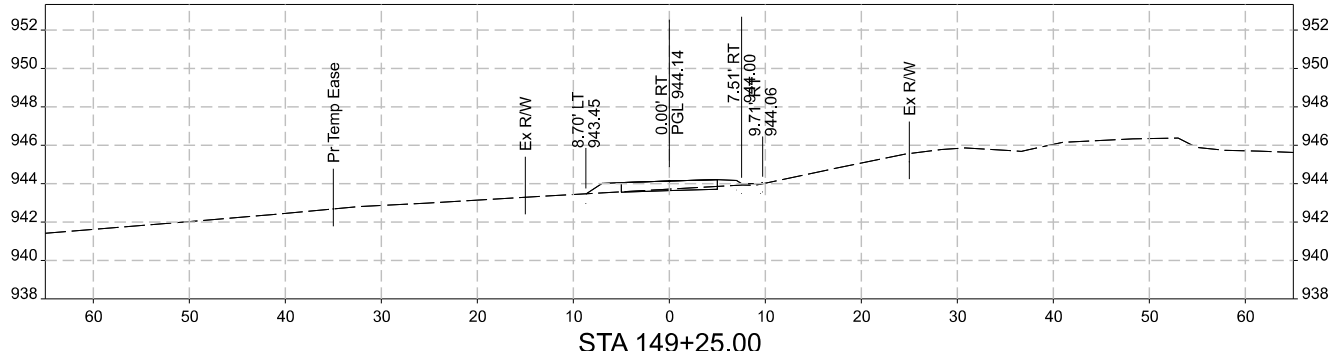
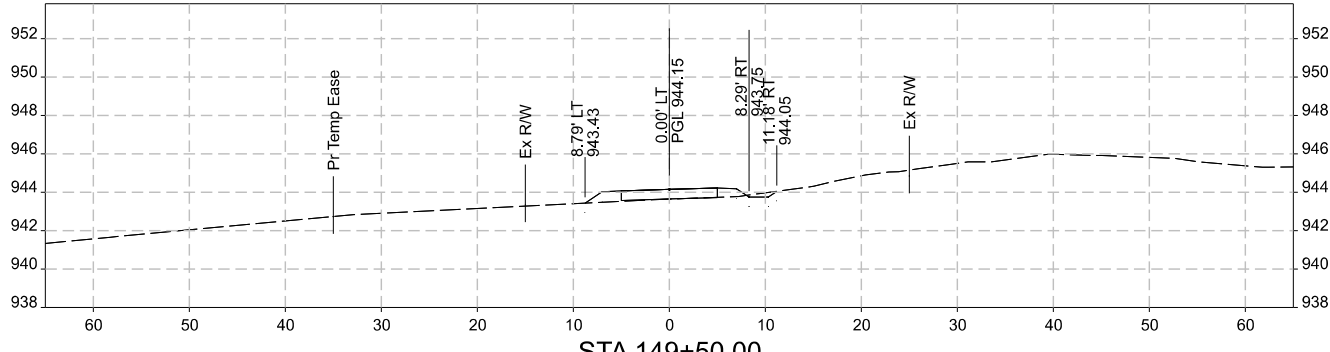
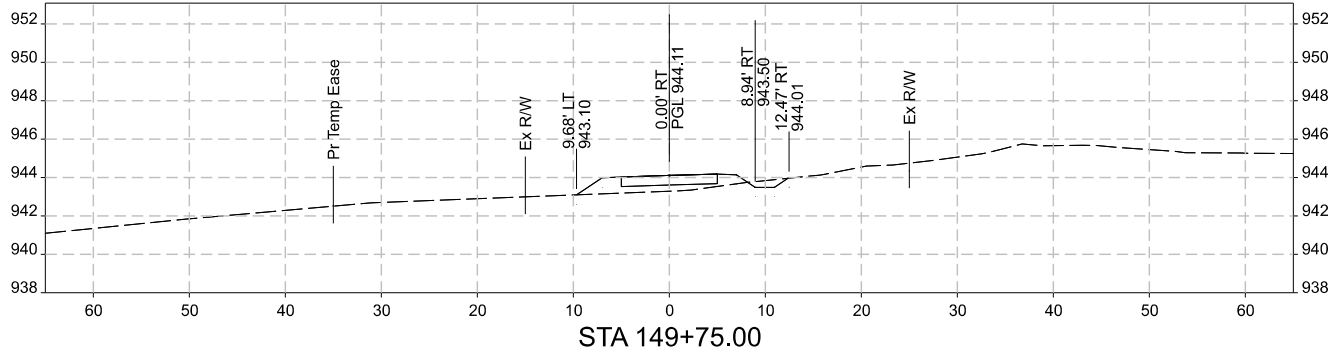
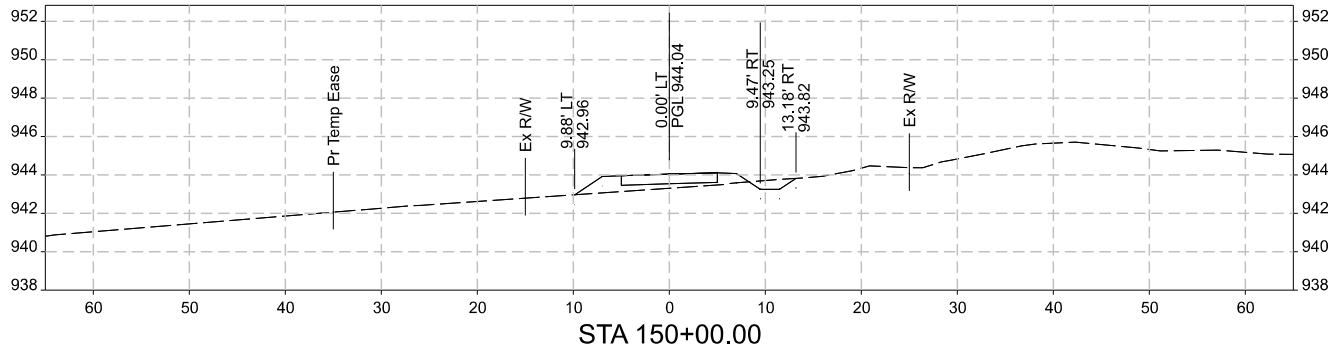
SNYDER & ASSOCIATES, INC. | 2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM



Project No: 1241375

Sheet W.9





MARK

Engineer: AMF

Technician: JDS

REVISION

Checked By: TNU

Date: 12/2/2025

DATE

1"=10'

Field Bk:

BY

Scale:

Pg:

Sheet W.11

Project No: 1241375

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

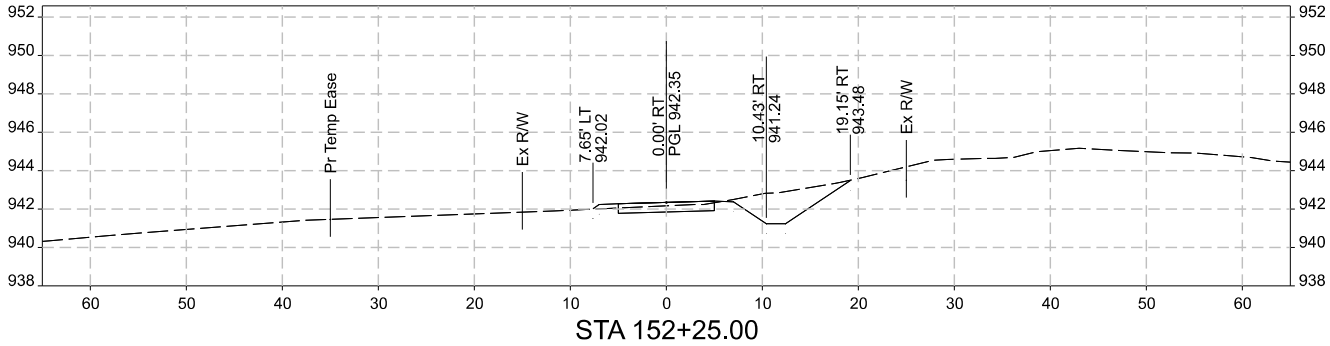
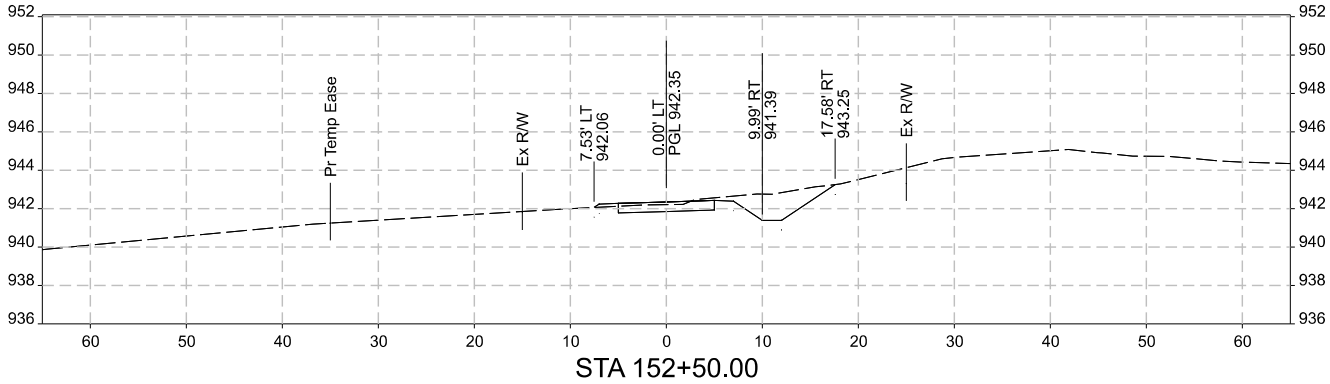
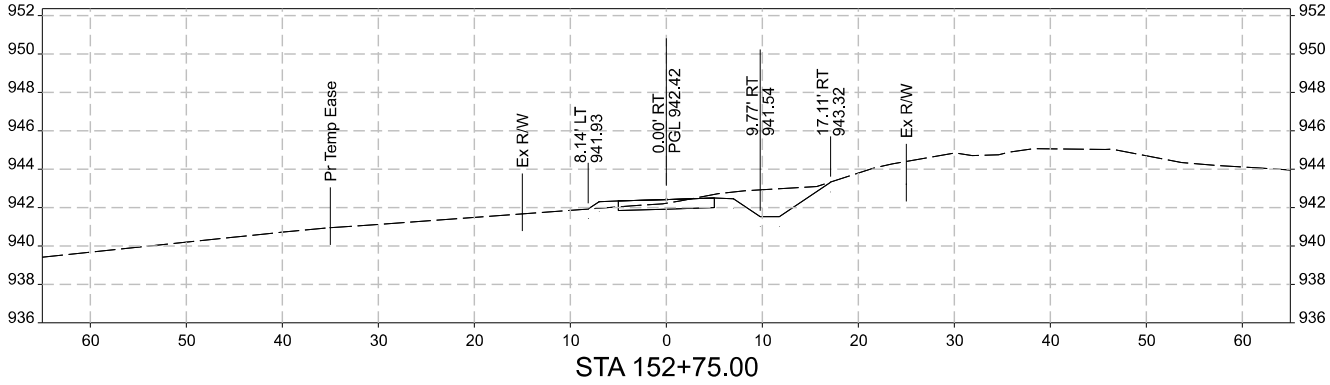
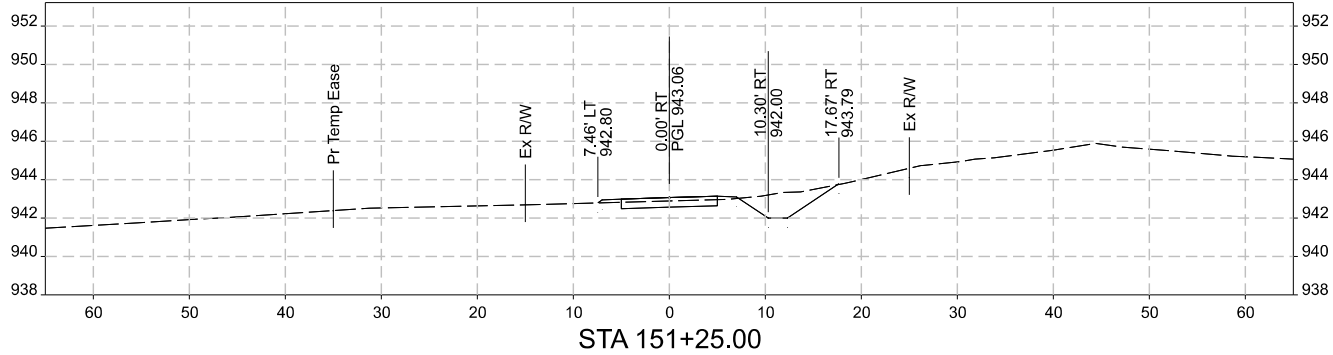
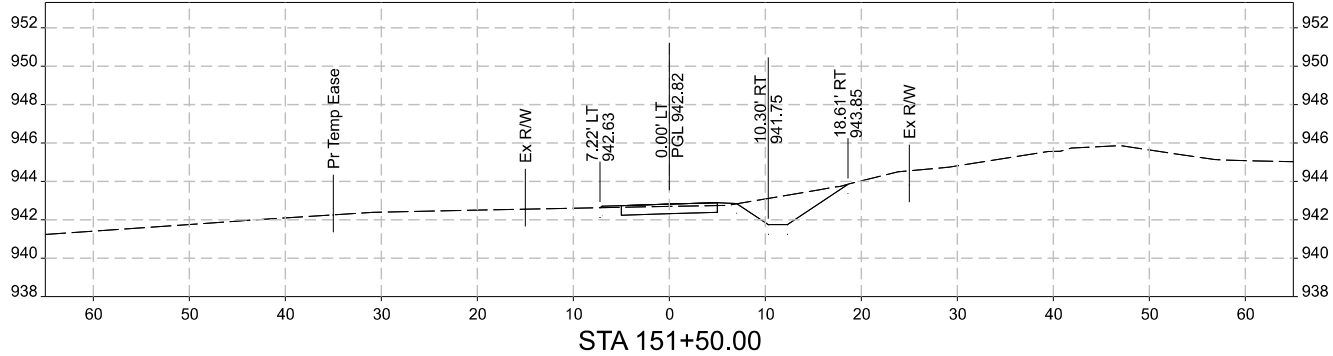
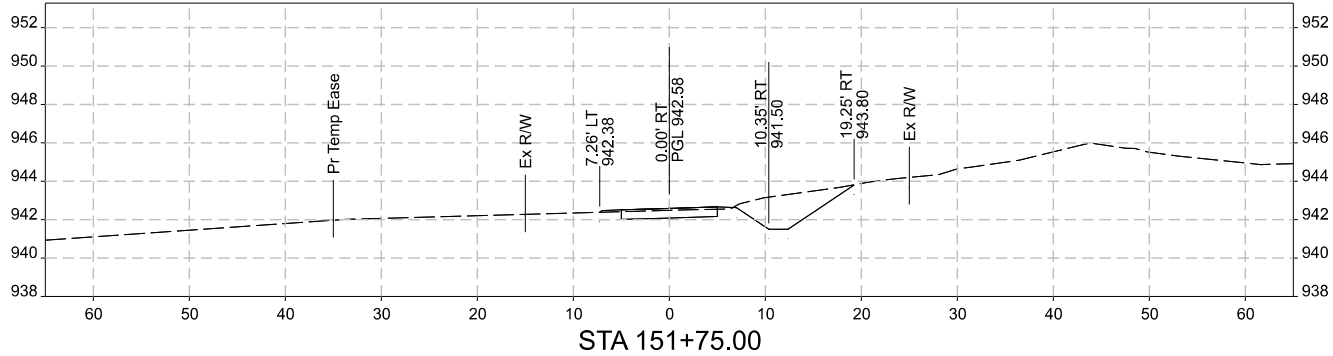
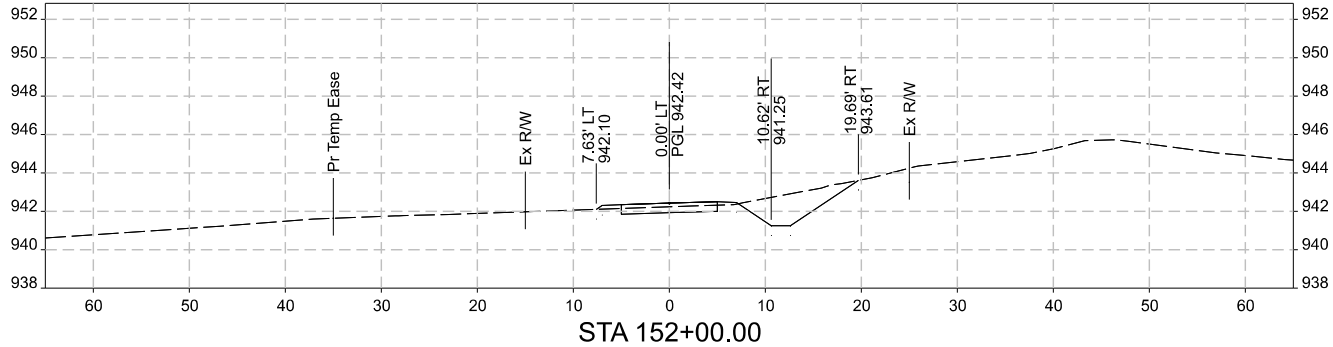
POLK COUNTY, IOWA

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2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.11



MARK

Engineer: AMF

Technician: JDS

REVISION

Checked By: TNU

Date: 12/2/2025

DATE

1"=10'

Field Bk:

BY

Scale:

Pg:

Sheet W.12

Project No: 1241375

DOT TAB-L-0077(249)-8-77

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

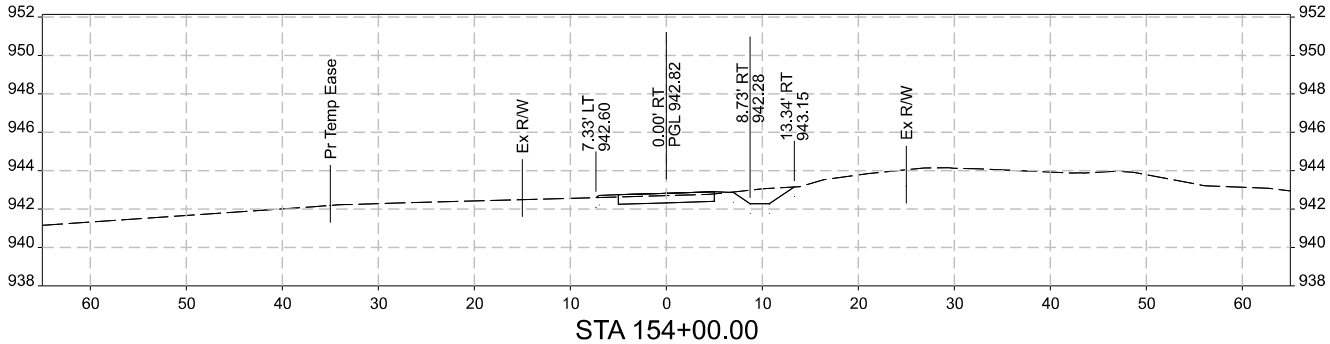
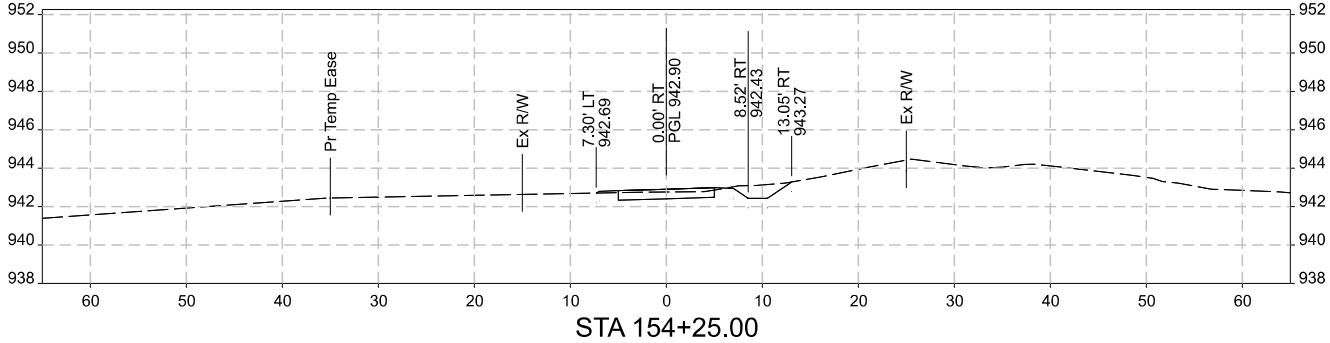
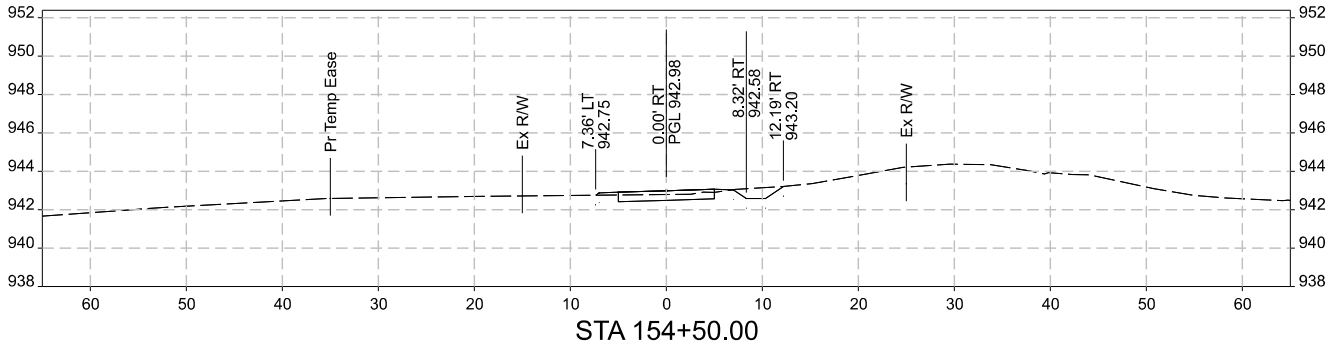
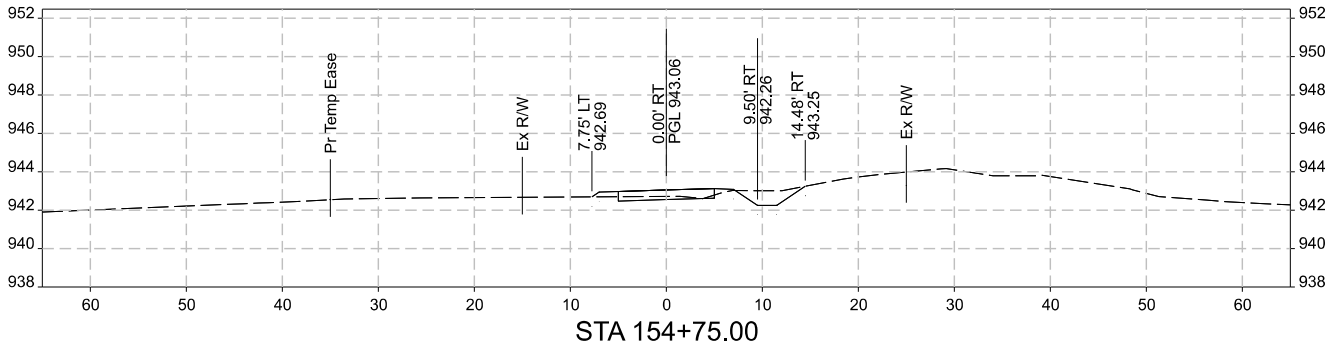
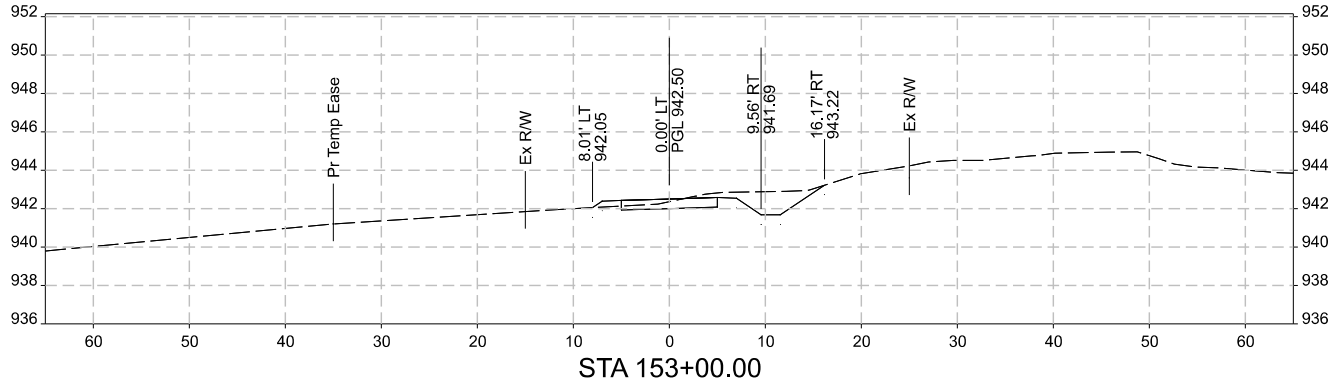
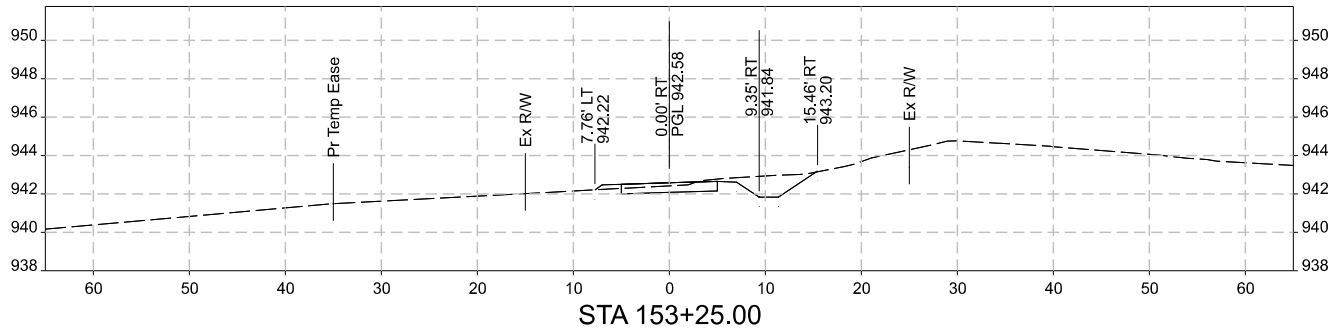
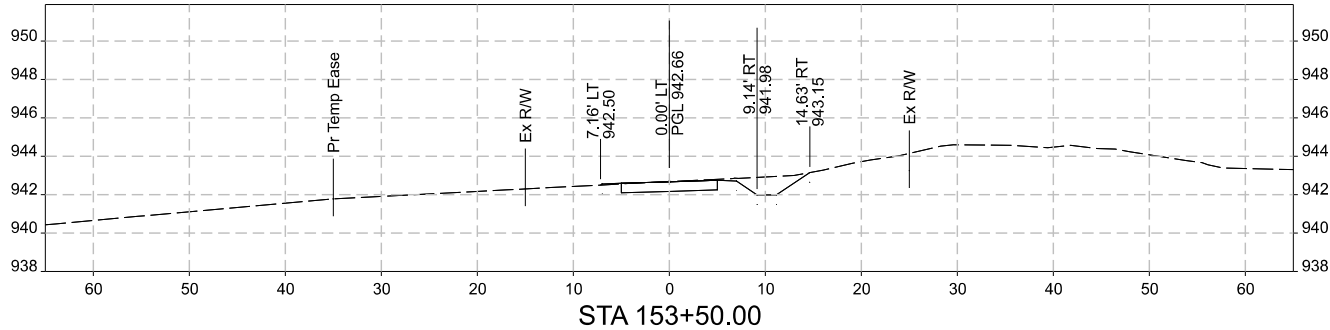
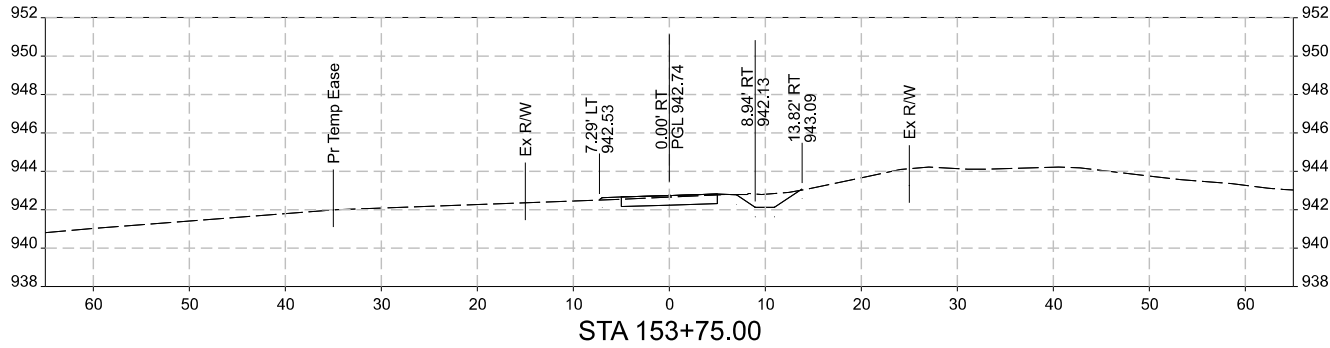
POLK COUNTY, IOWA

SNYDER & ASSOCIATES

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.12



MARK

Engineer: AMF

Checked By: TNU

DATE

1"=10'

Scale:

Field Bk:

Pg:

REVISION

Checked By: TNU

Date: 12/2/2025

Project No: 1241375

DOT: TAB-L-077(249)-8-77

Sheet W.13

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

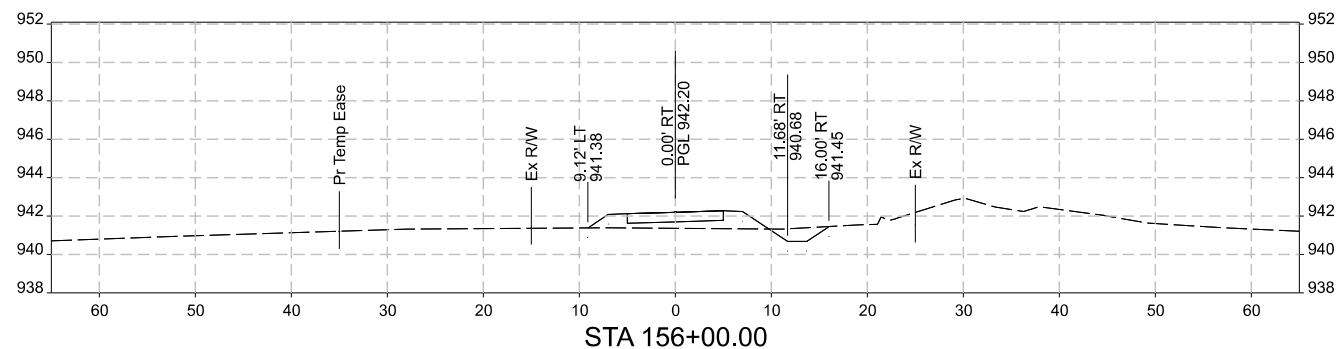
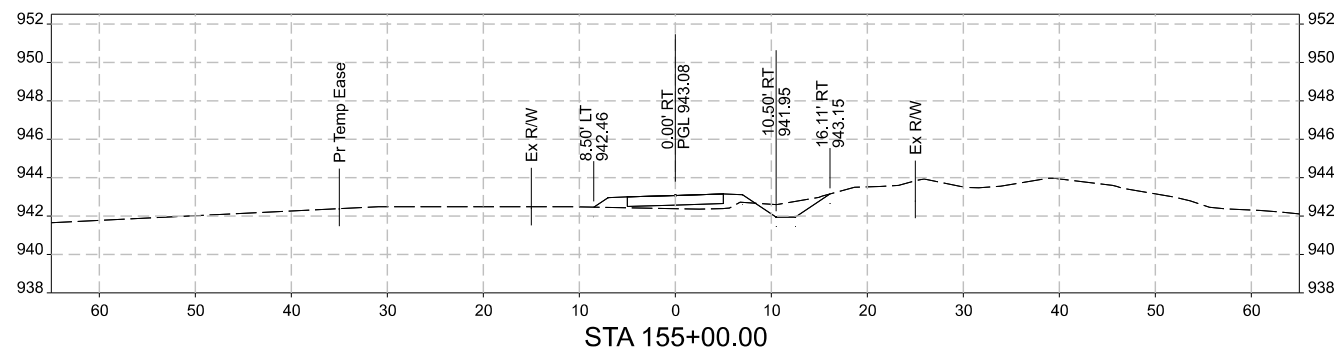
POLK COUNTY, IOWA

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2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

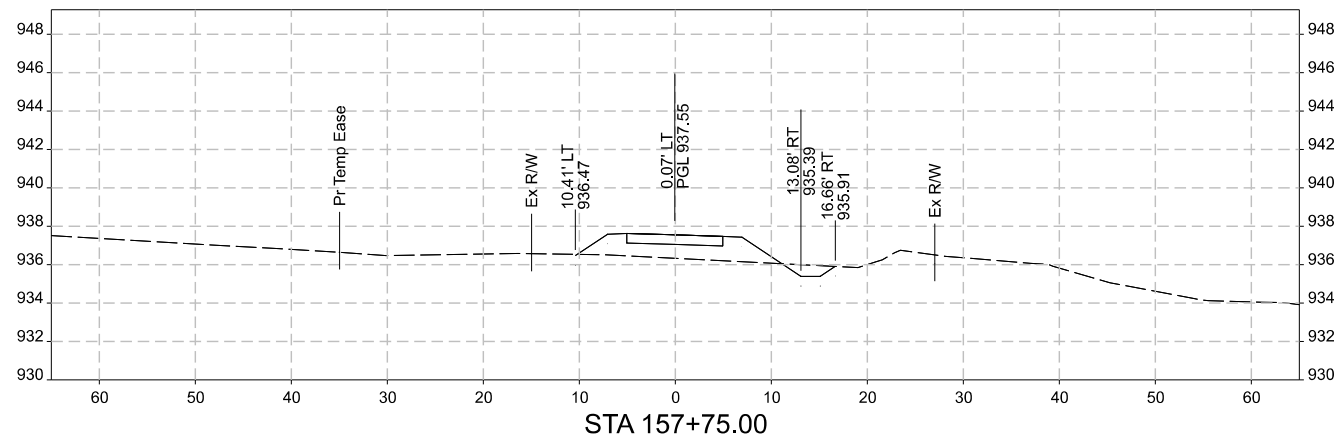
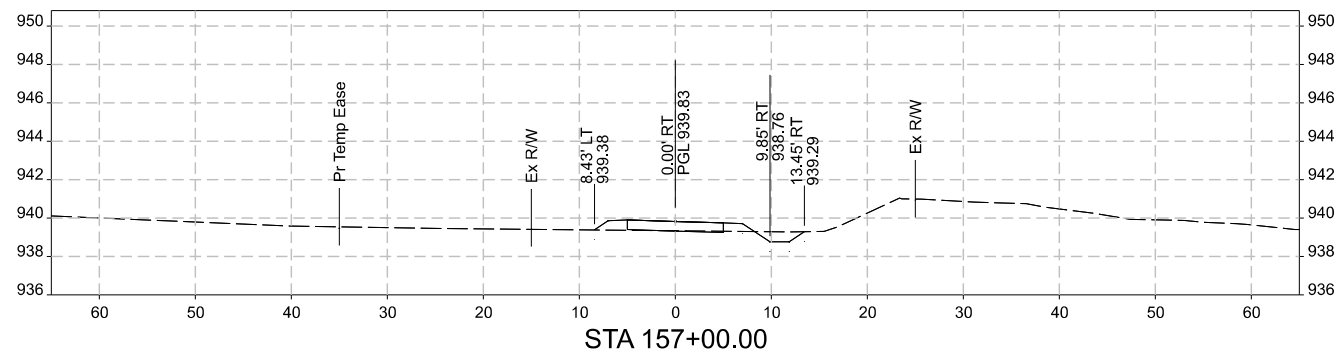
Sheet W.13



POLK COUNTY, IOWA

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

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POLK COUNTY, IOWA

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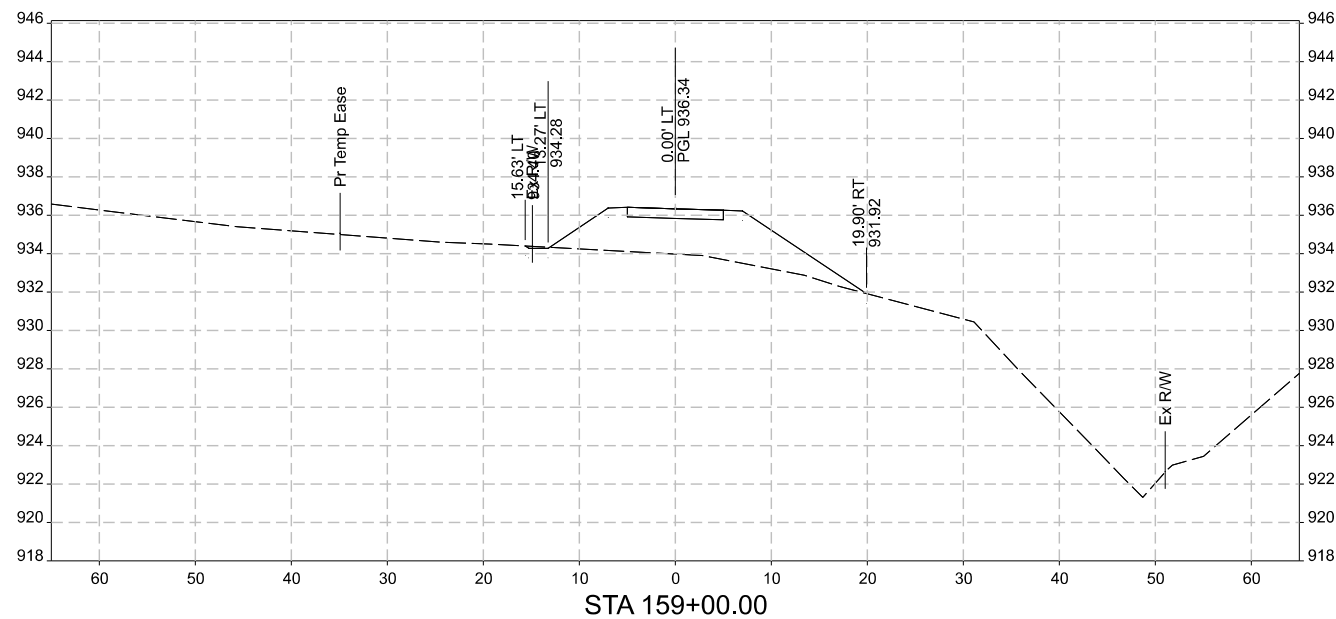
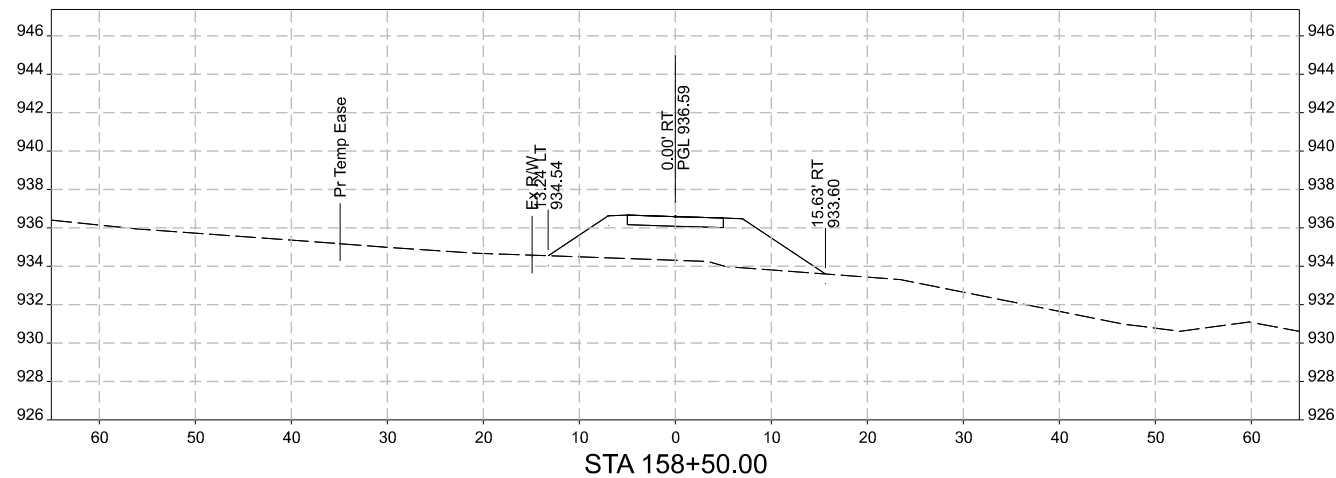


SNYDER
& ASSOCIATES

Project No: 1241375

Sheet W.15

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	Engineer: AMF	Checked By: TNJ	Scale: 1"= 10'	
	Technician: JDS	Date: 12/22/2025	Field Bk:	Pg:
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MAINLINE CROSS SECTIONS

POLK COUNTY, IOWA

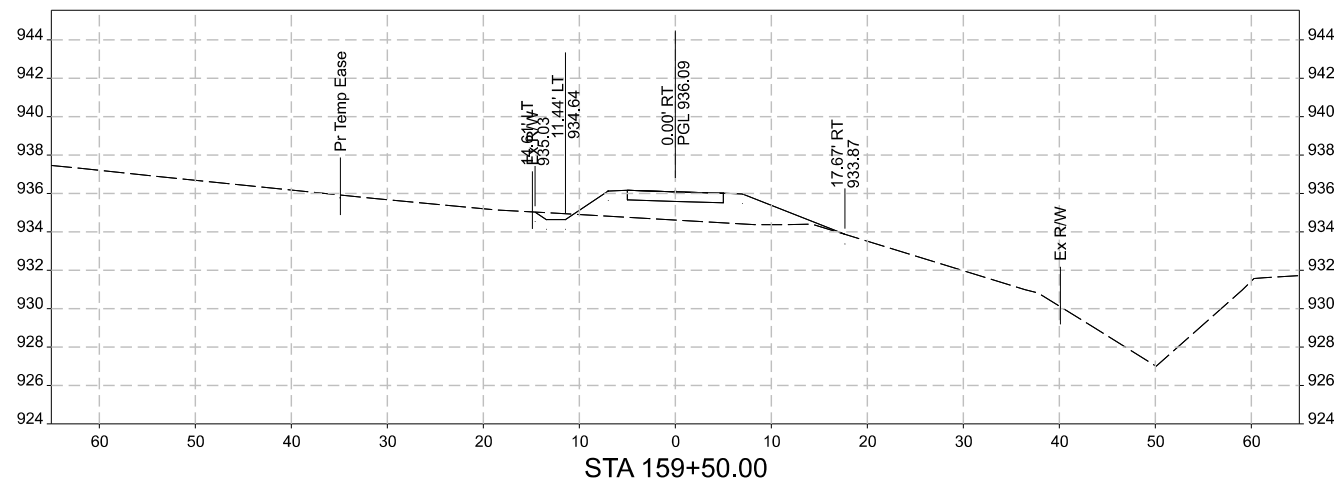
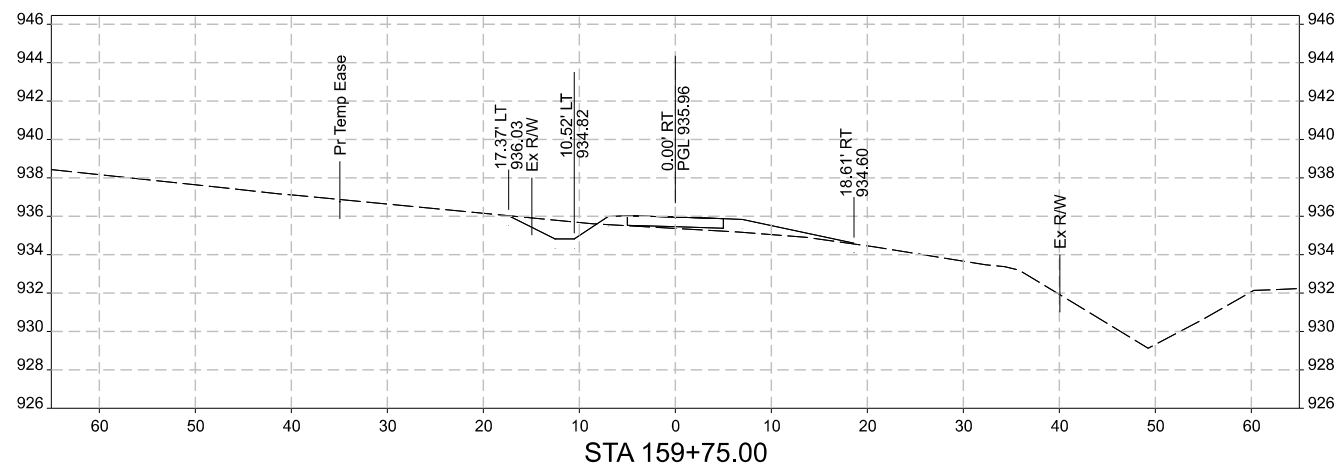
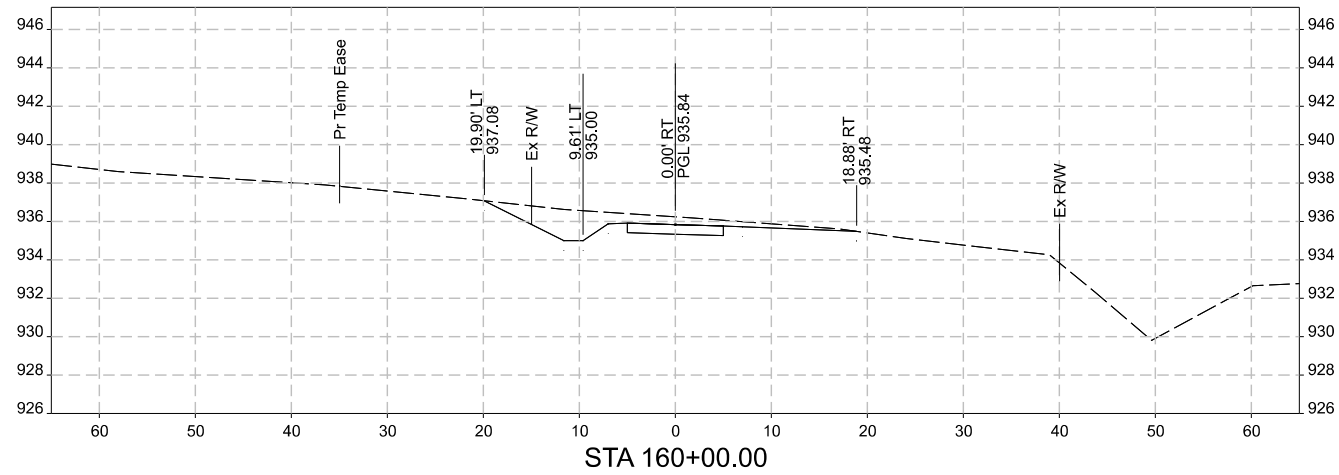


Project No: 1241375

Sheet W.16

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Technician: JDS	Date: 12/20/2025	Field Bk:	Pg:
DOT TAPU-C007(249)-R4-77 Project No: 1241375			
Sheet W.16			

SNYDER & ASSOCIATES, INC.



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

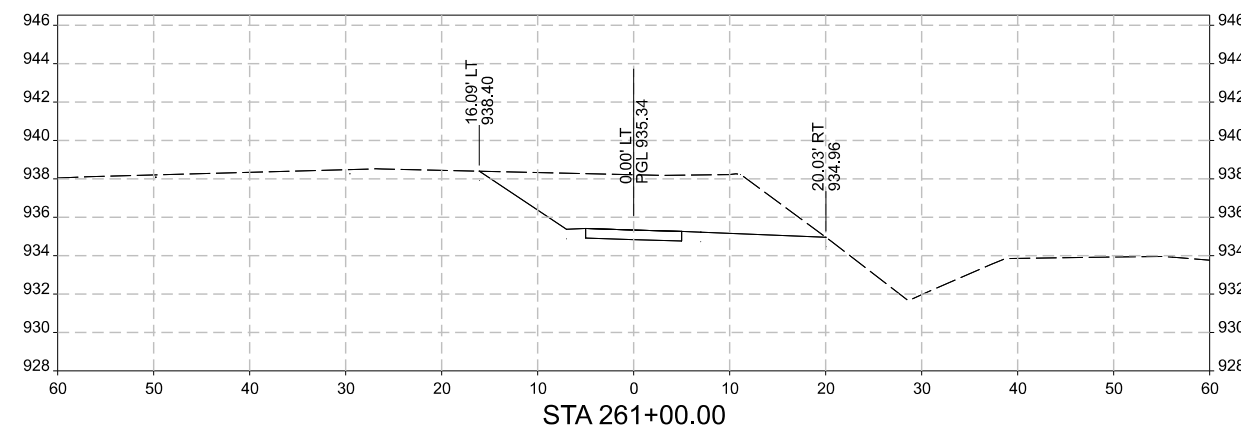
2727 SW SNYDER BLVD
ANKENY, IOWA 50023
WWW.SNYDER-ASSOCIATES.COM

Technician: JDS	Date: 12/22/2025	Field Bk:	Pg:
DOT TAP-U-C077(249)-81-77		Sheet W.17	
Project No: 1241375			

Project No: 1241375

Sheet W.17

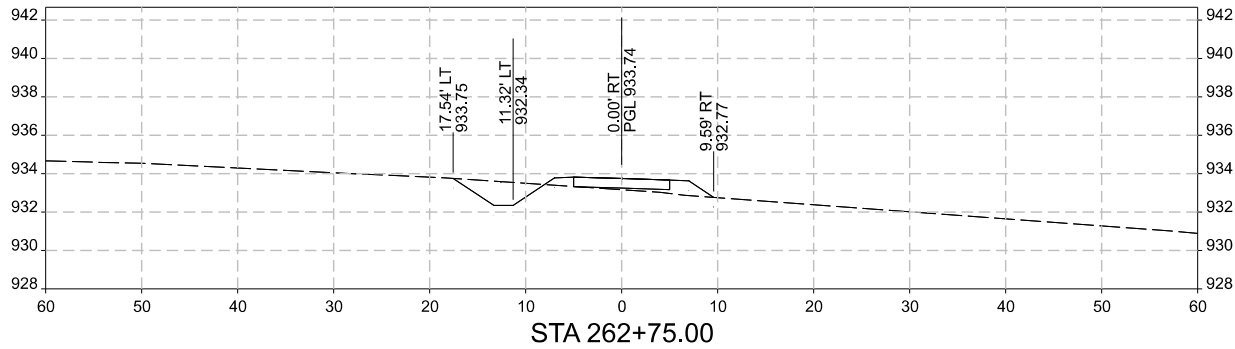
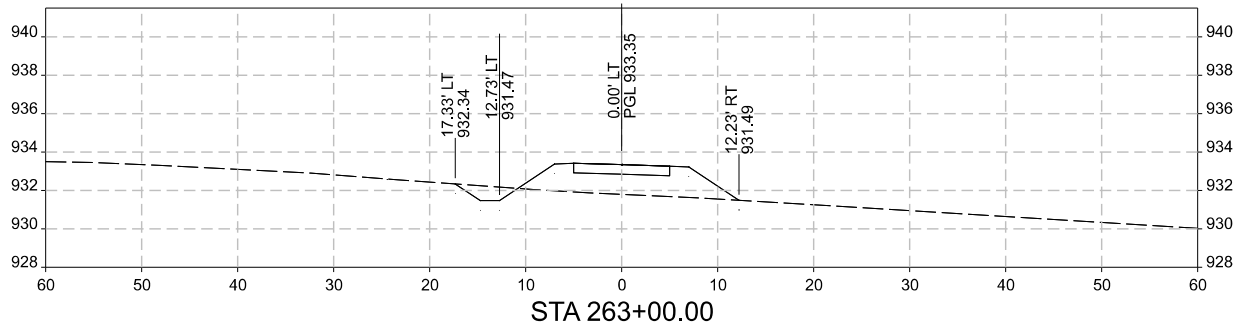
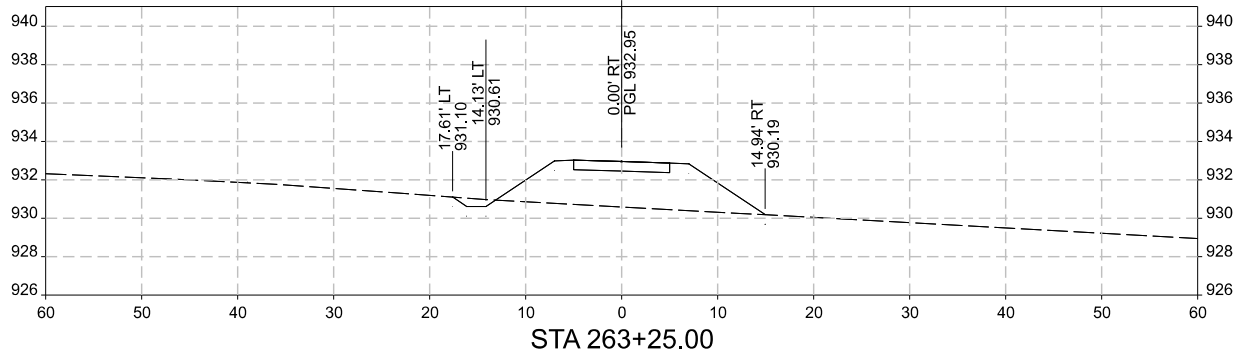
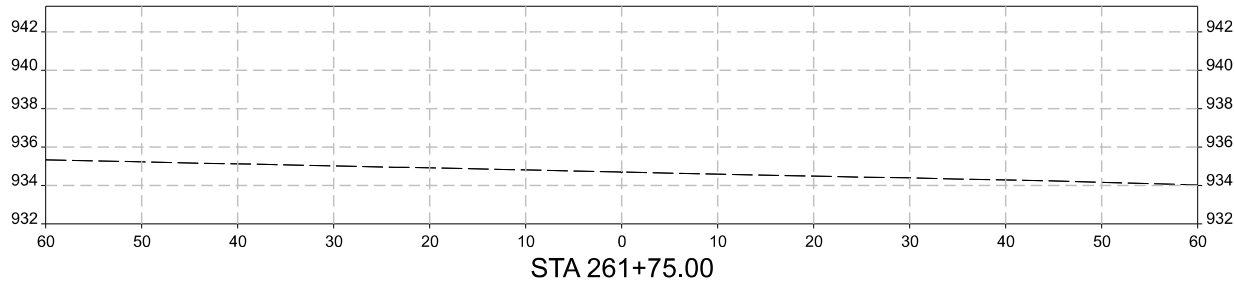
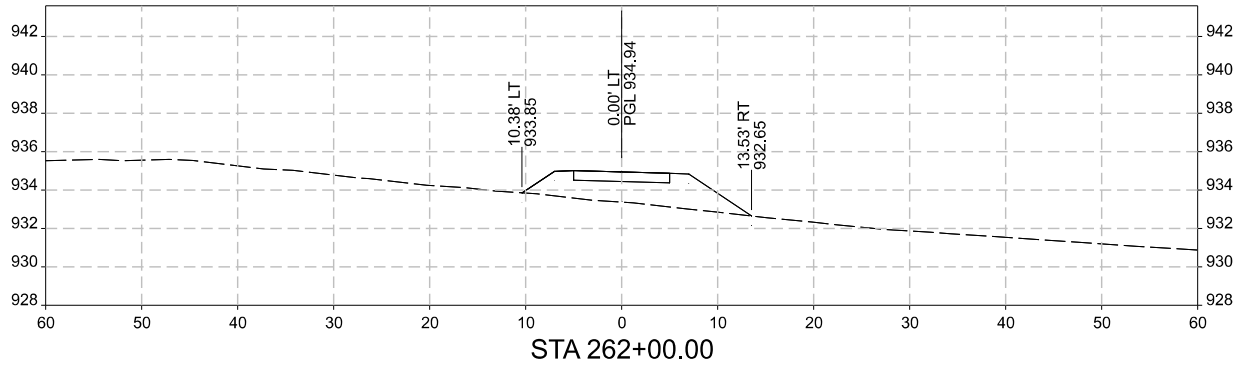
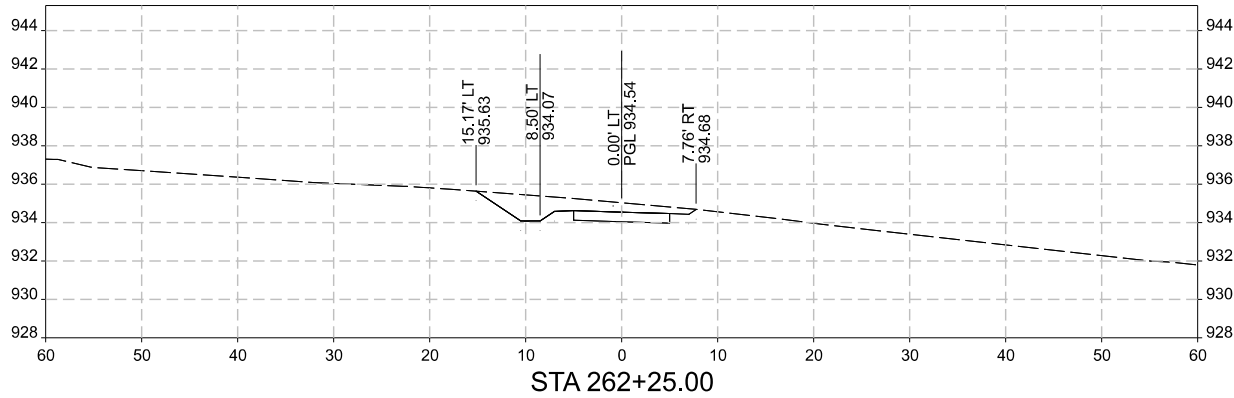
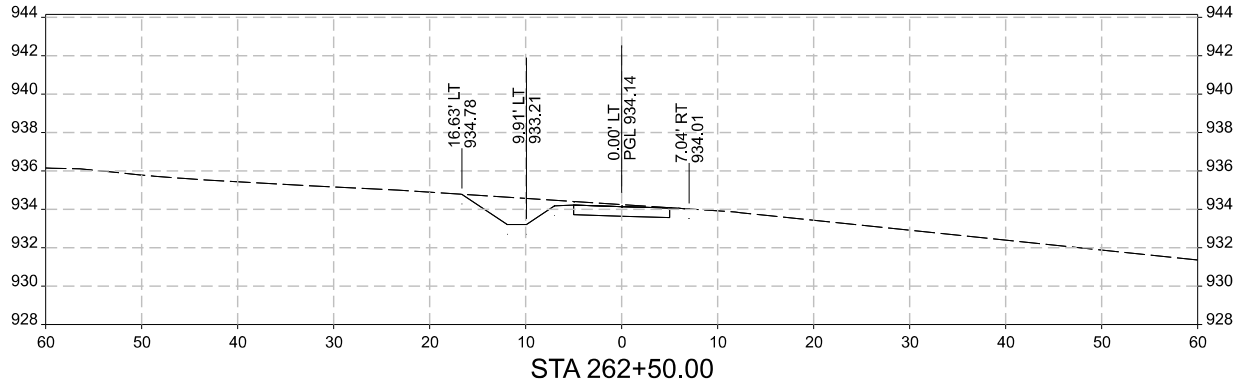


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ANKENY, IA 50023
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Sheet W.18



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

POLK COUNTY, IOWA

MAINLINE CROSS SECTIONS

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IA 50023

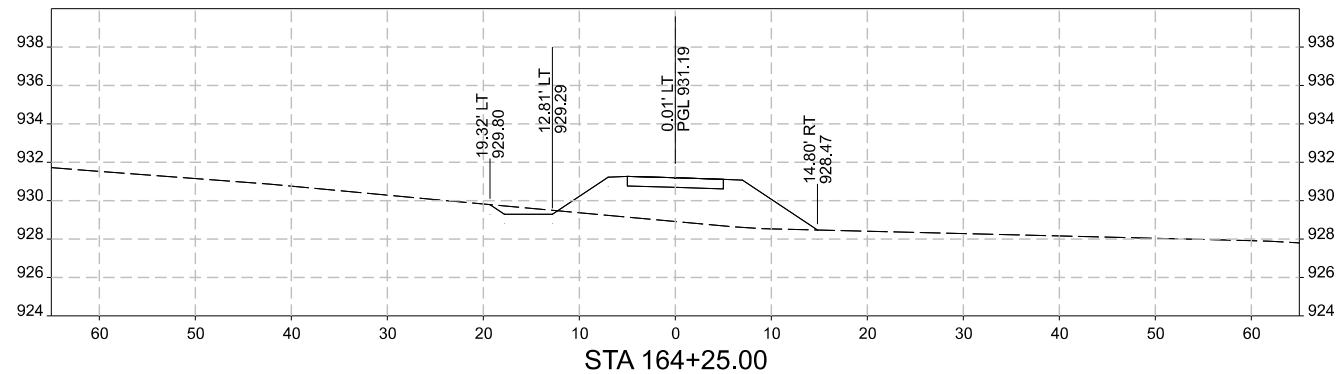
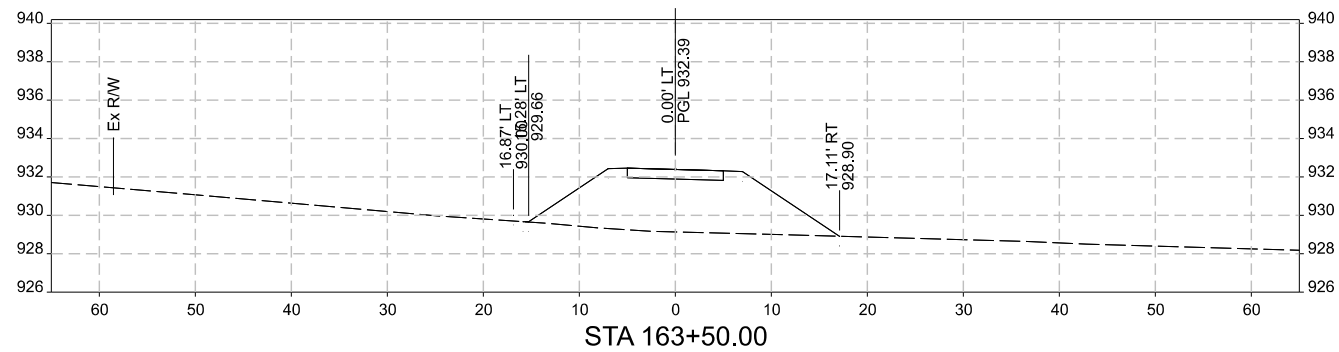
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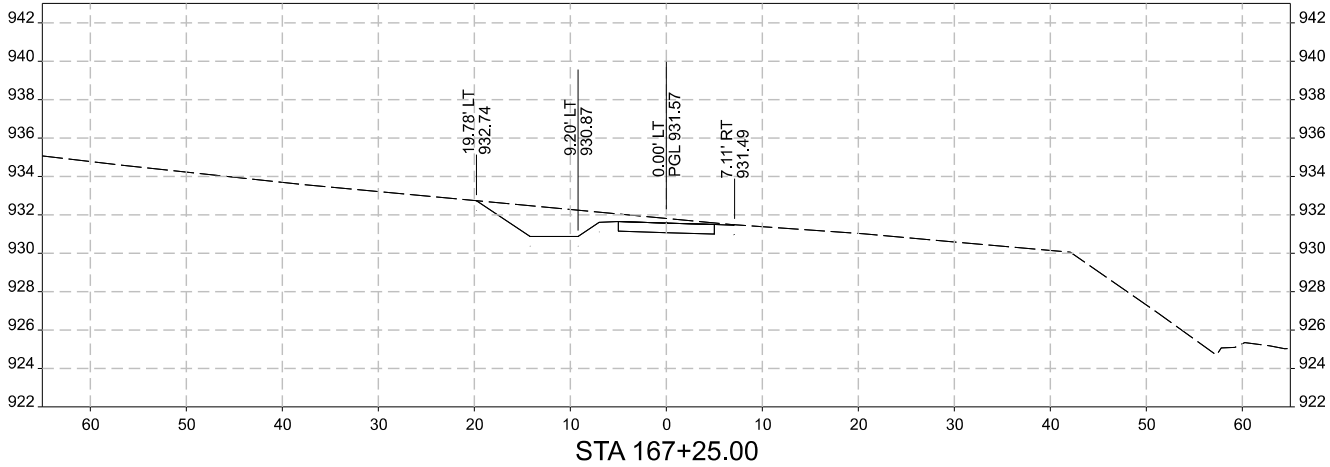
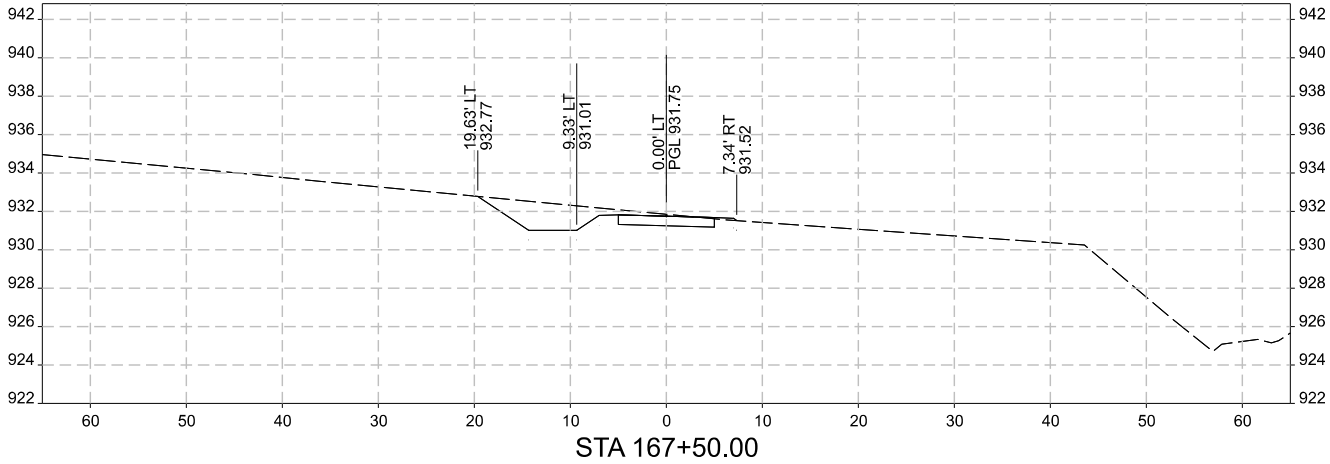
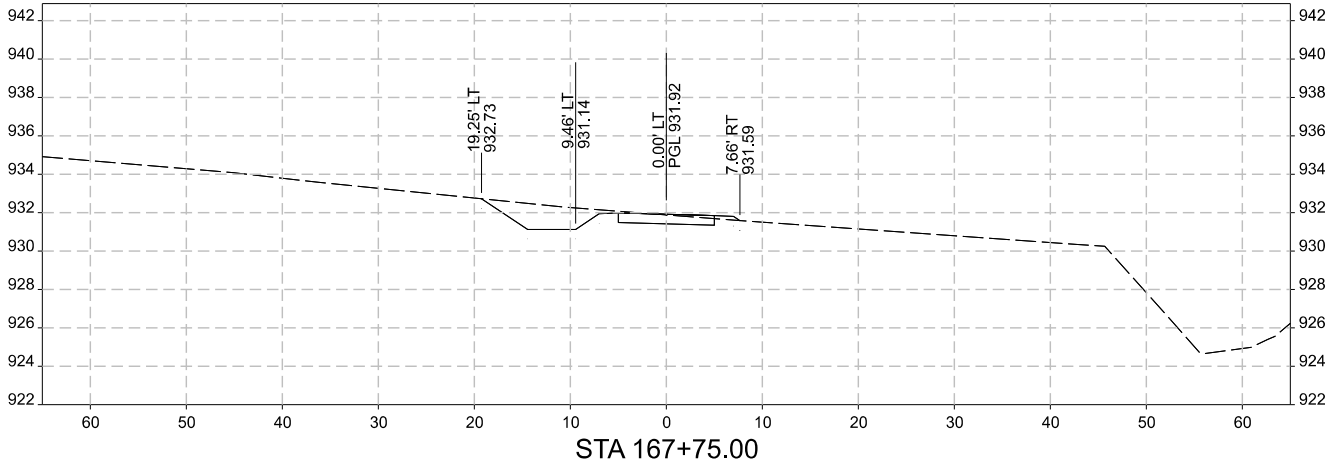
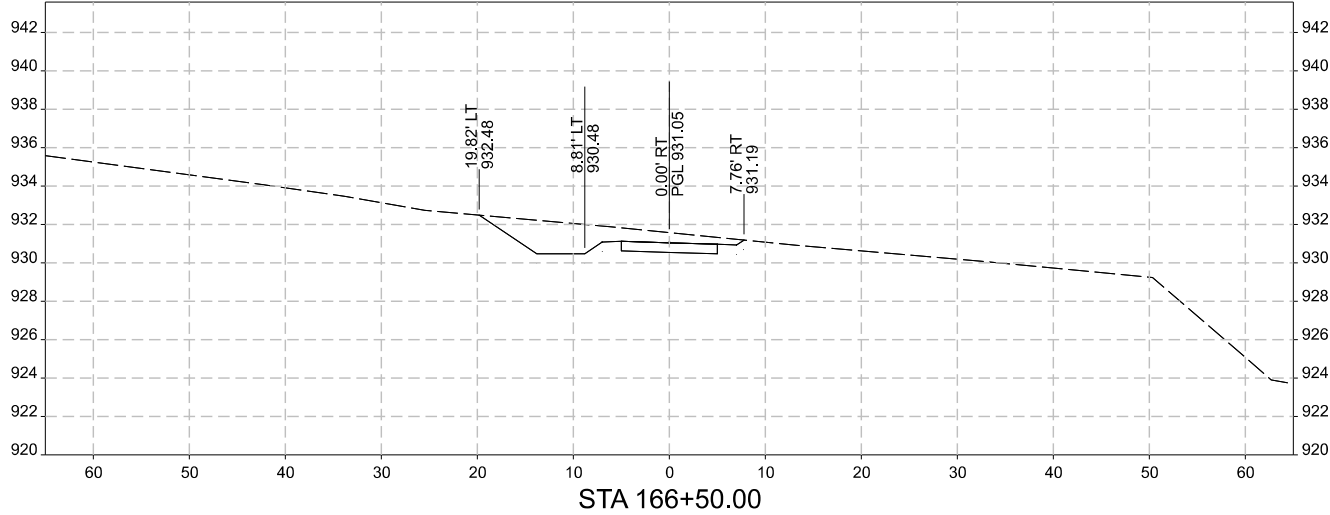
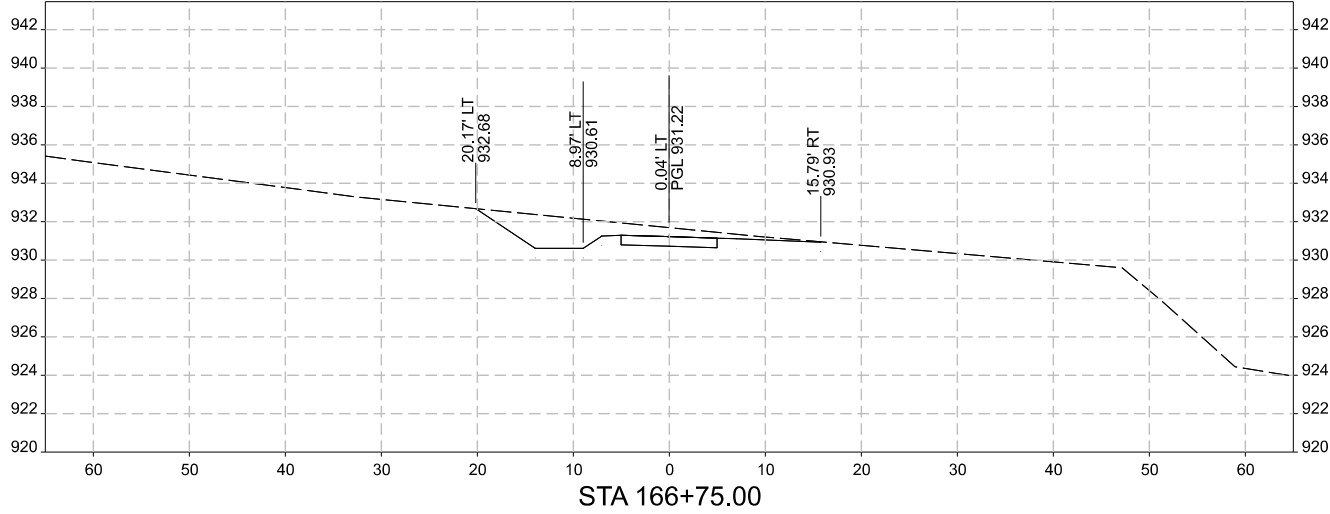
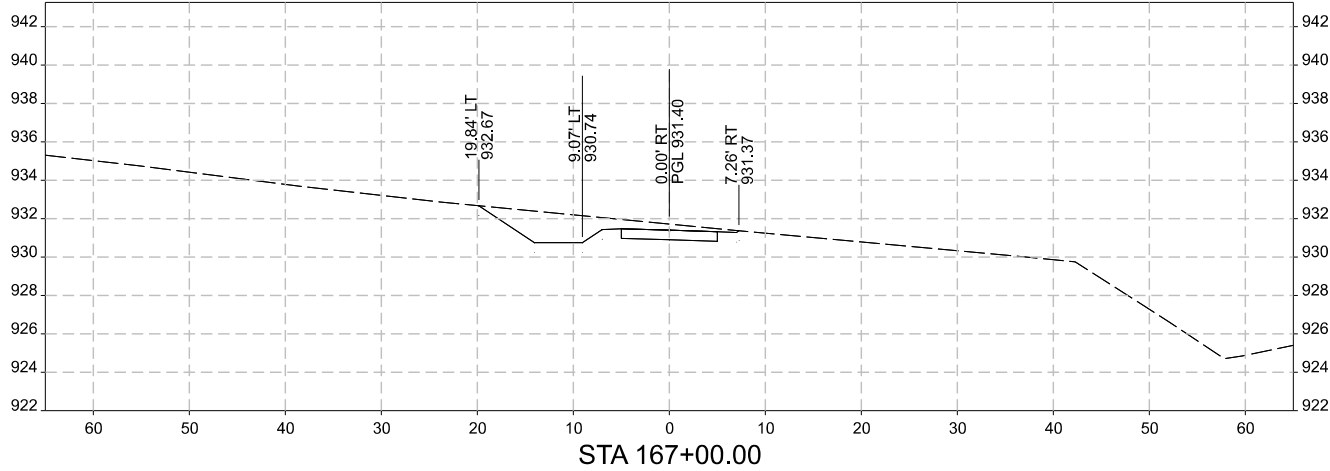
Project No: 1241375

Sheet W.19

MARK	REVISION	DATE	BY
Engineer: AMF	Checked By: TNU		
Technician: BTJ	Date: 3/17/2026		
DOT # TAP-JC077(249)-B-77			
Project No: 1241375			
			Sheet W.19



Sheet W.21



MARK

Engineer: AMF

Checked By: TNJ

REVISION

DATE

BY

1"= 10'

Scale:

12/2/2025

Date:

12/2/2025

Field Bk:

1241375

Project No:

DOT: TAP-L-007(248)-81-77

Sheet

W.22

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

POLK COUNTY, IOWA

3/17/2026 5:02:52 PM

bjohnson

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2727 SW SNYDER BLVD

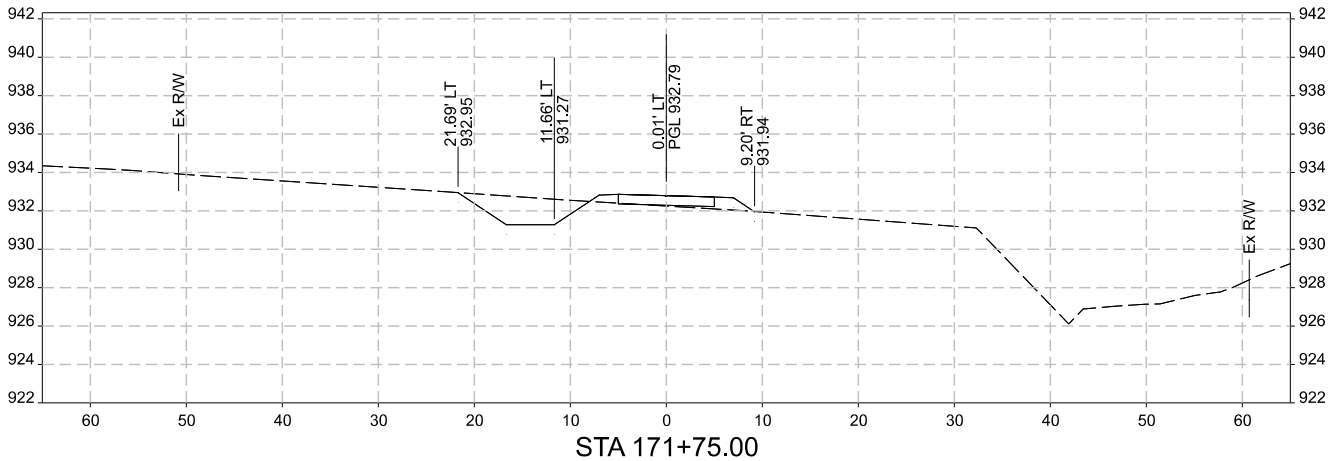
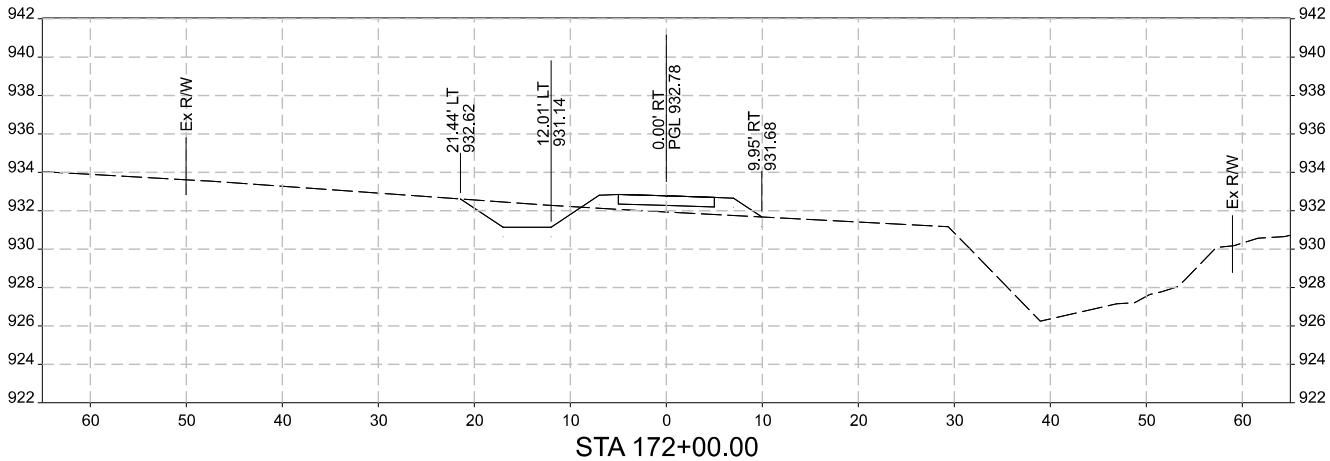
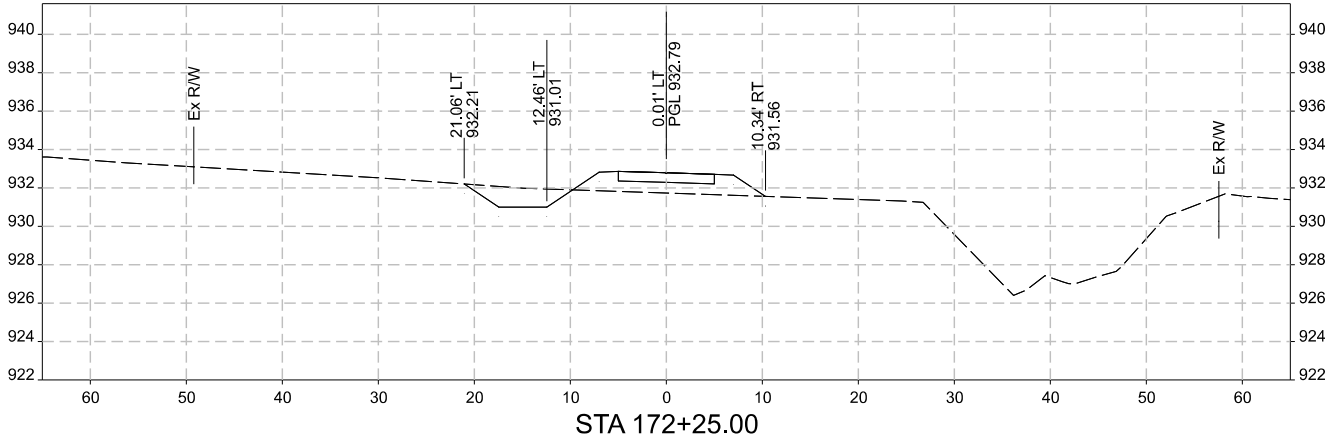
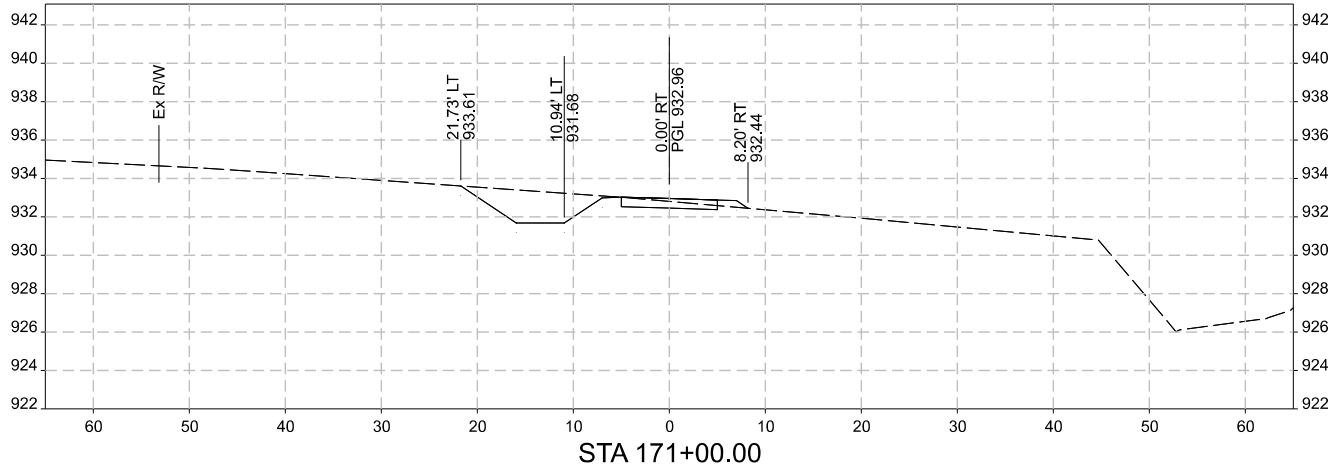
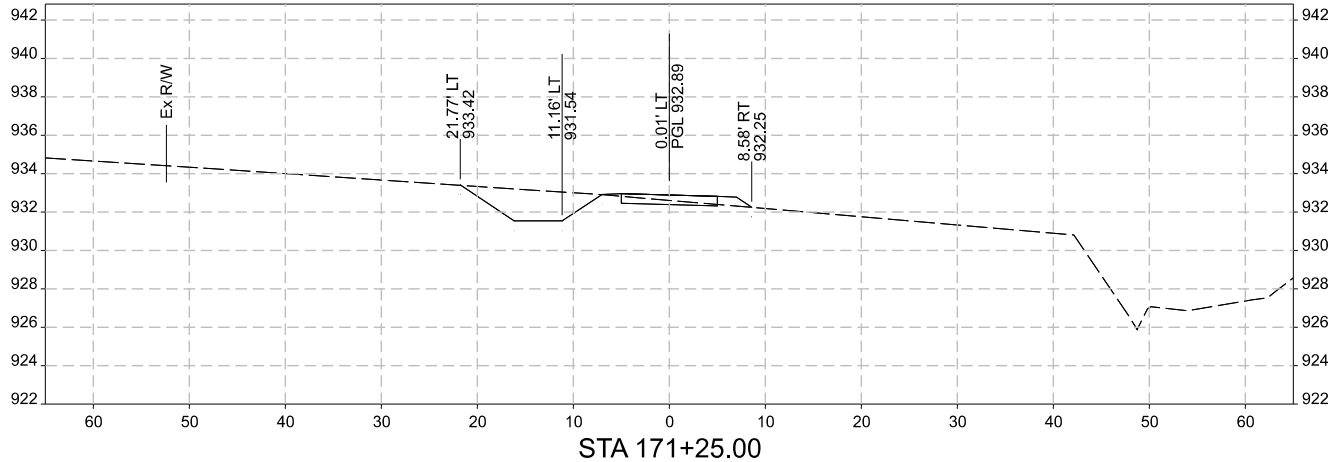
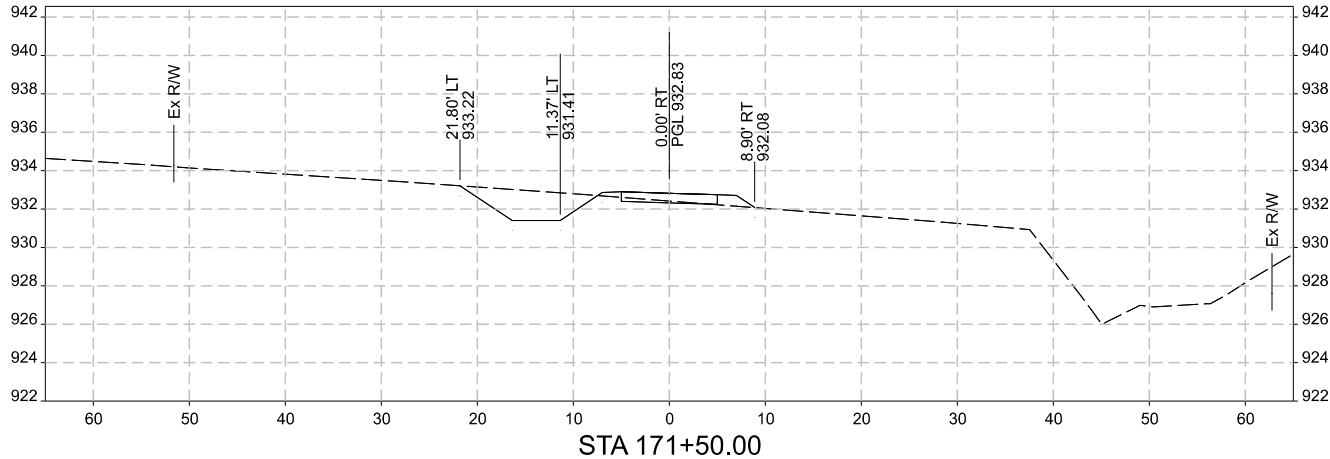
ANKENY, IOWA 50023

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SNYDER & ASSOCIATES, INC.

Sheet

W.22



MARK

Engineer: AMF

Technician: JDS

REVISION

Checked By: TNU

Date: 12/2/2025

DATE

1"= 10'

Field Bk:

BY

Scale:

Pg:

Project No: 1241375

Sheet W.25

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

SNYDER & ASSOCIATES, INC.

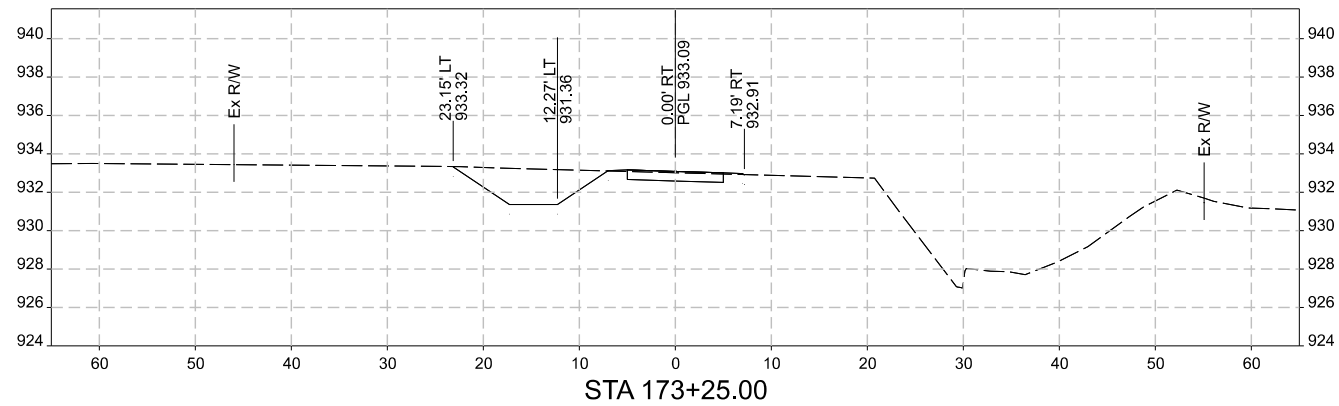
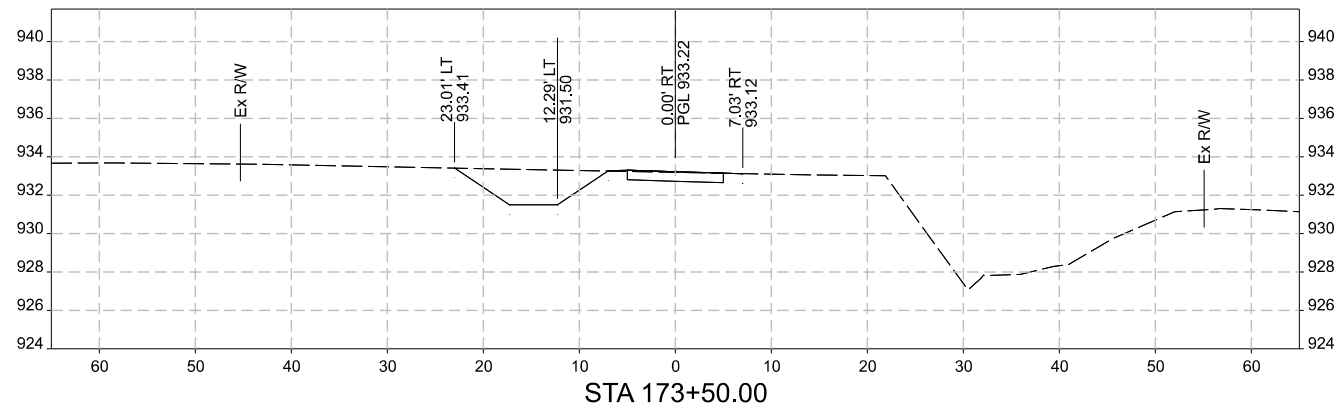
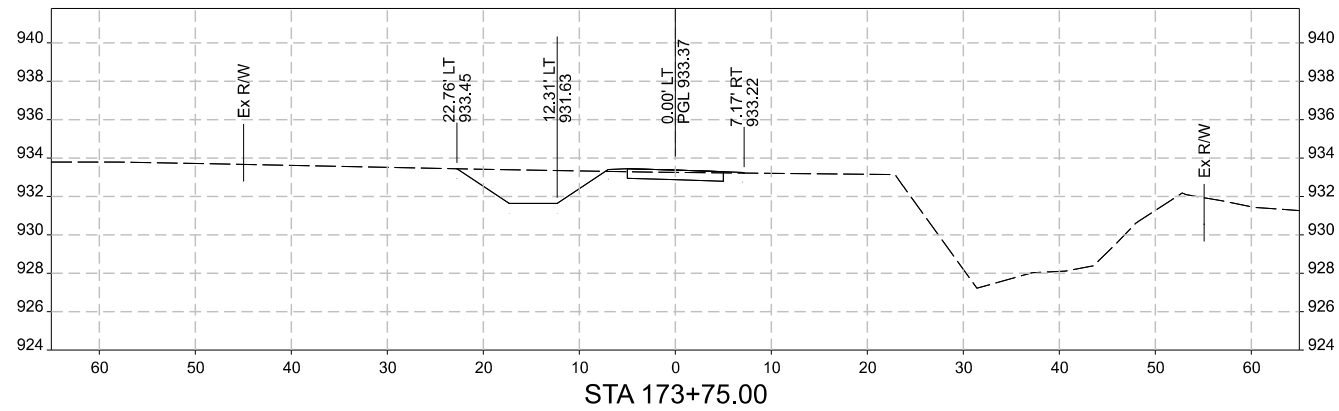
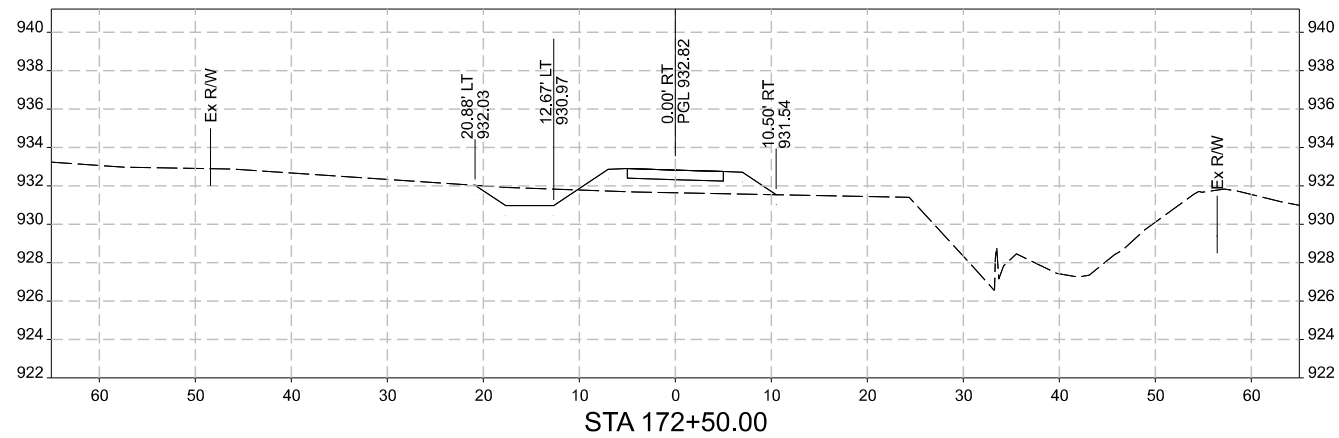
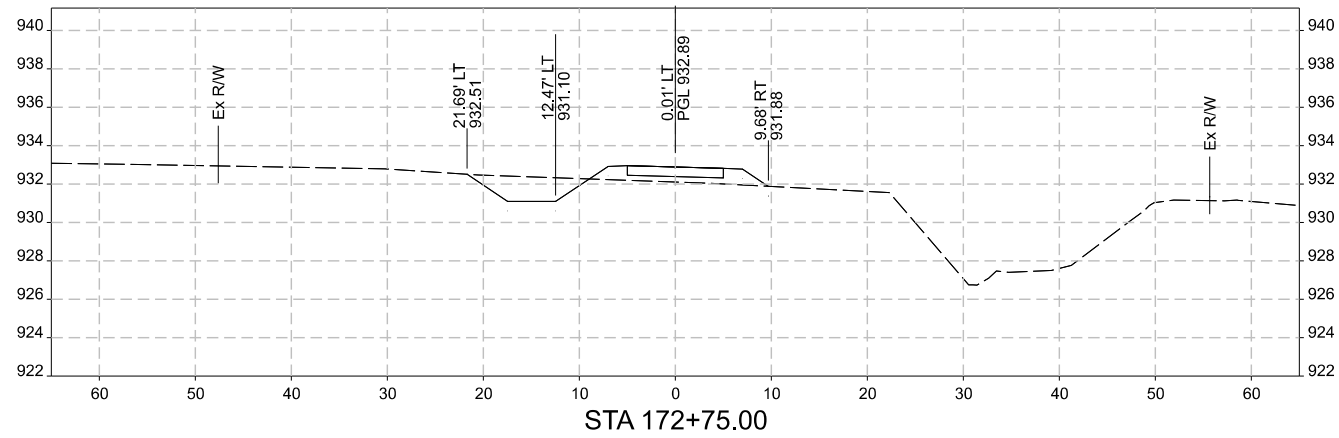
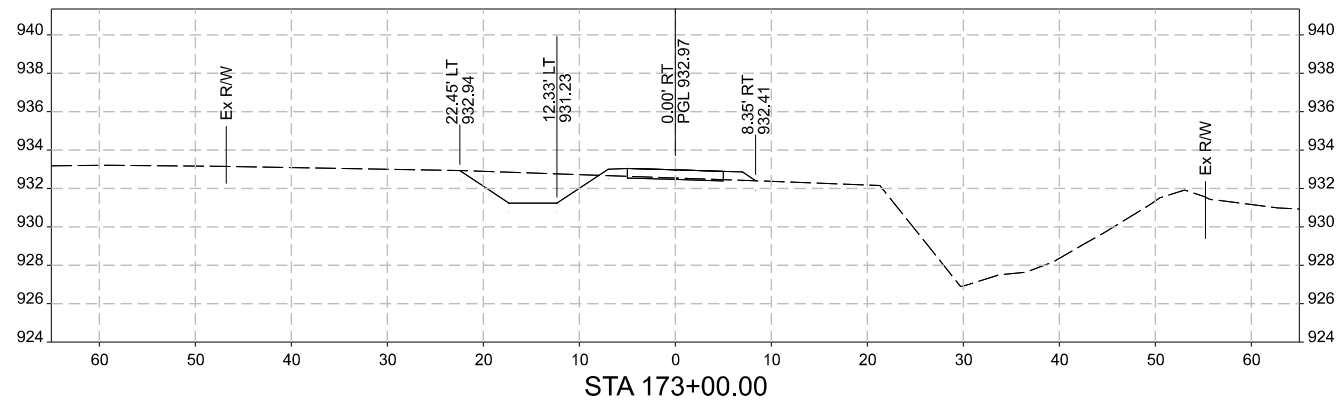
POLK COUNTY, IOWA

2727 SW SNYDER BLVD
ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.25



MARK		REVISION		DATE	BY
Engineer:	AMF	Checked By:	TNU	Scale:	1"= 10'
Technician:	JDS	Date:	12/22/2025	Field Bk:	Pgr.

DOT TAPU-COT7(249)-81-77
 Project No.: 1241375

Sheet W.26

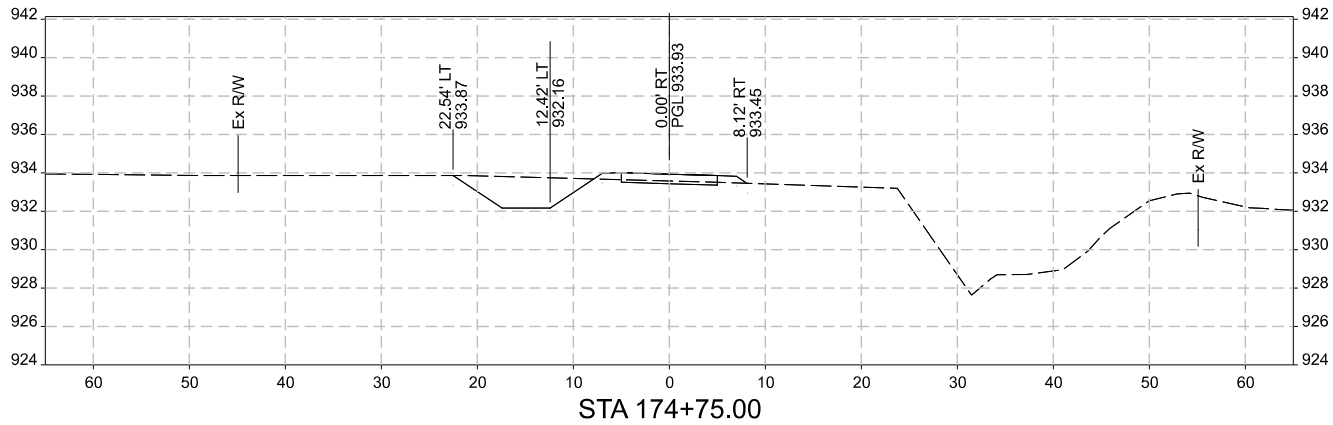
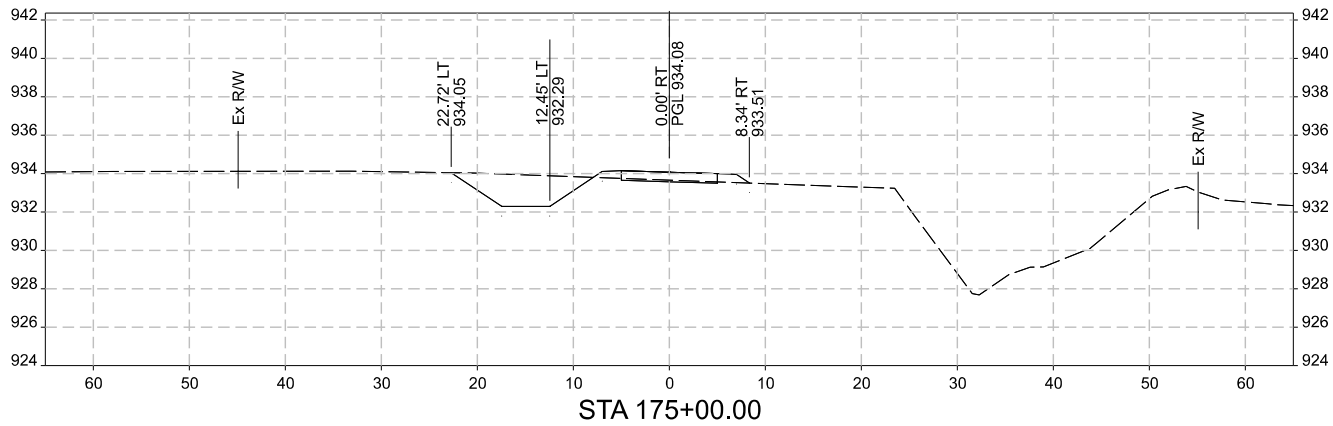
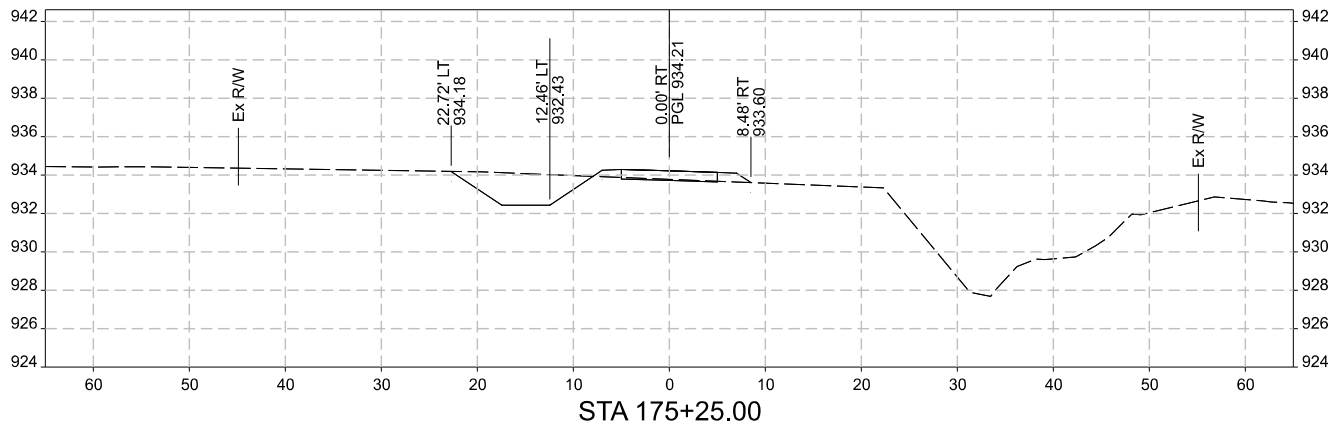
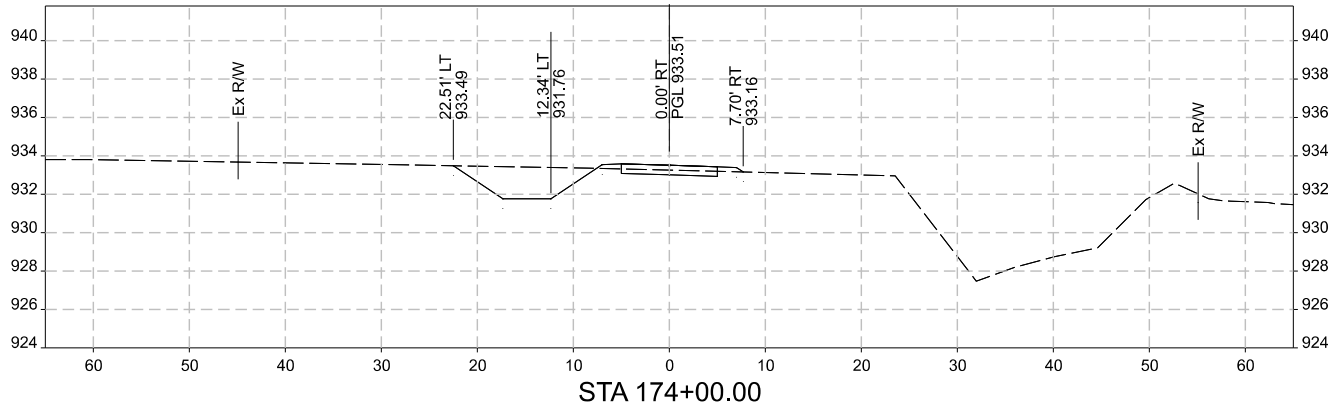
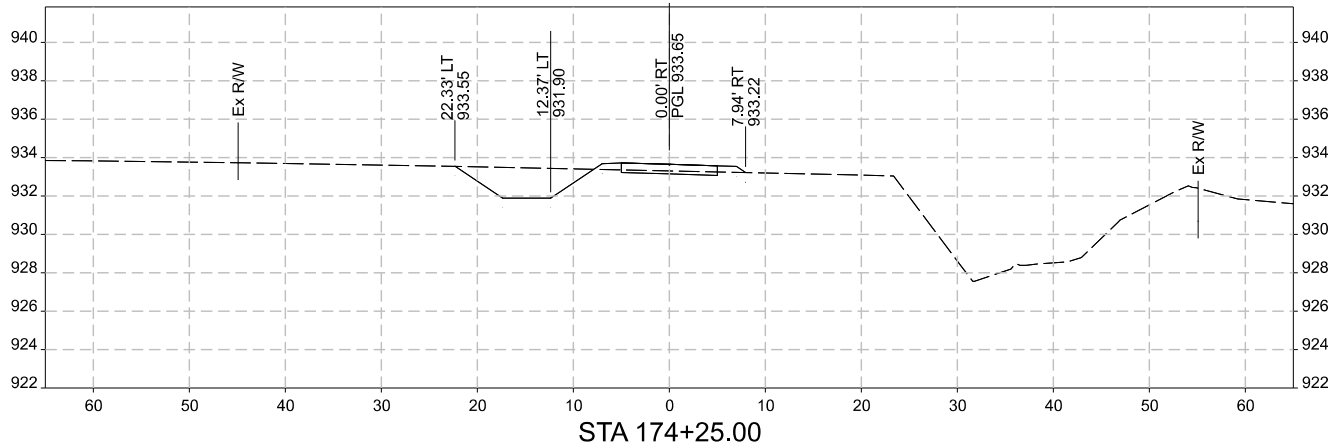
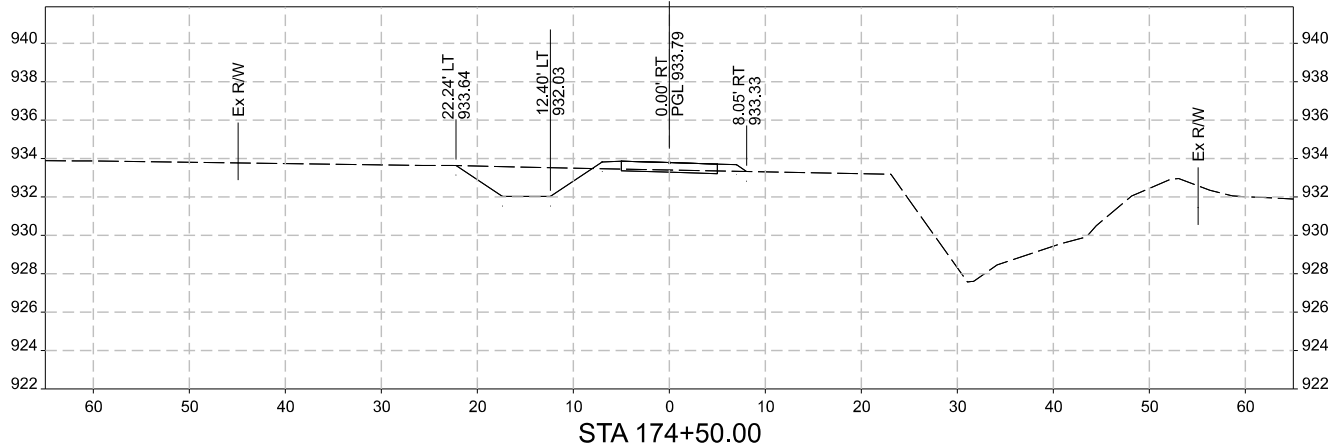
POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

SNYDER & ASSOCIATES, INC. | 2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

POLK COUNTY, IOWA





MARK

Engineer: AMF

Technician: JDS

REVISION

Checked By: TNU

Date: 12/2/2025

DATE

1"= 10'

Field Bk:

BY

Scale:

Pg:

Sheet

W.27

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

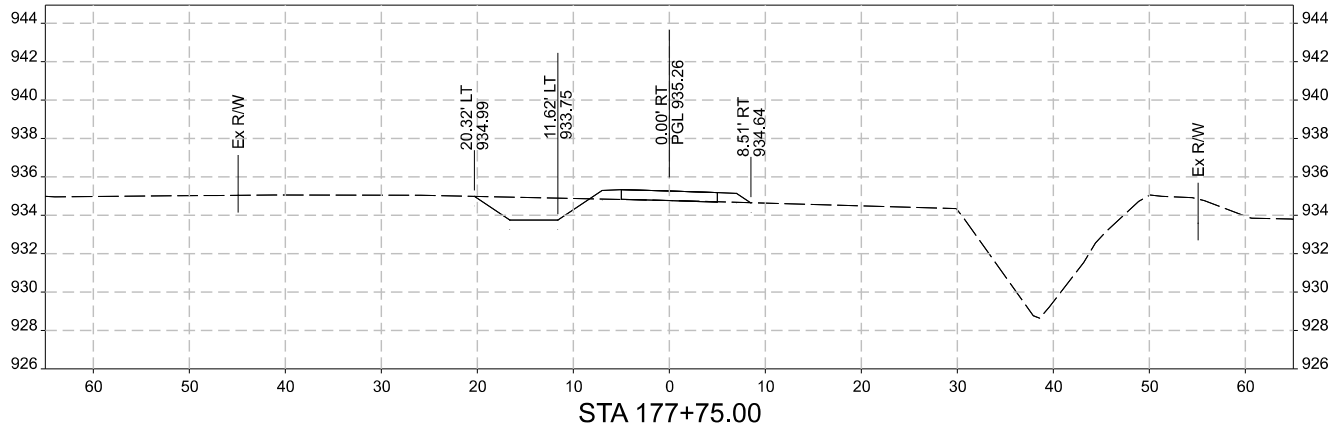
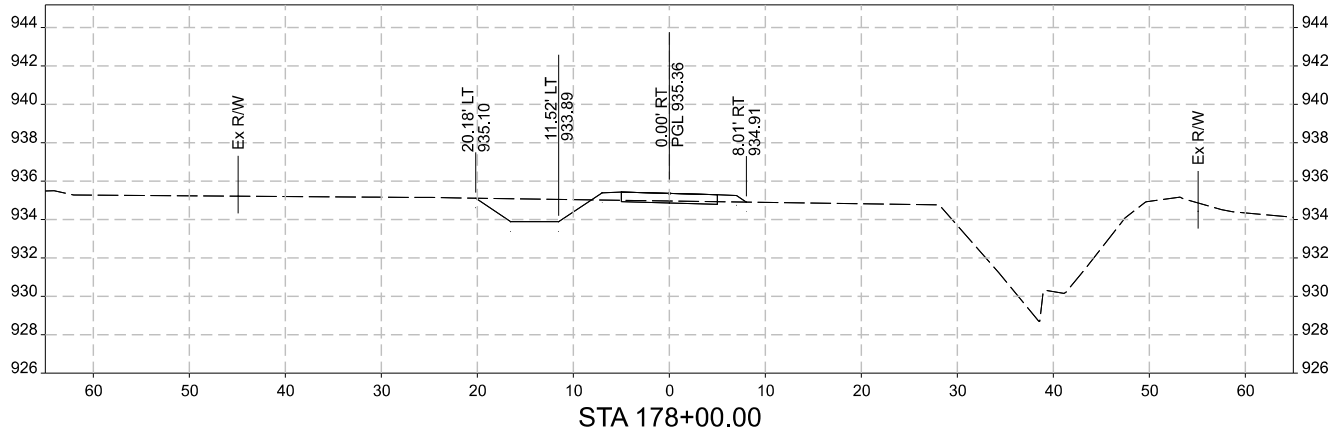
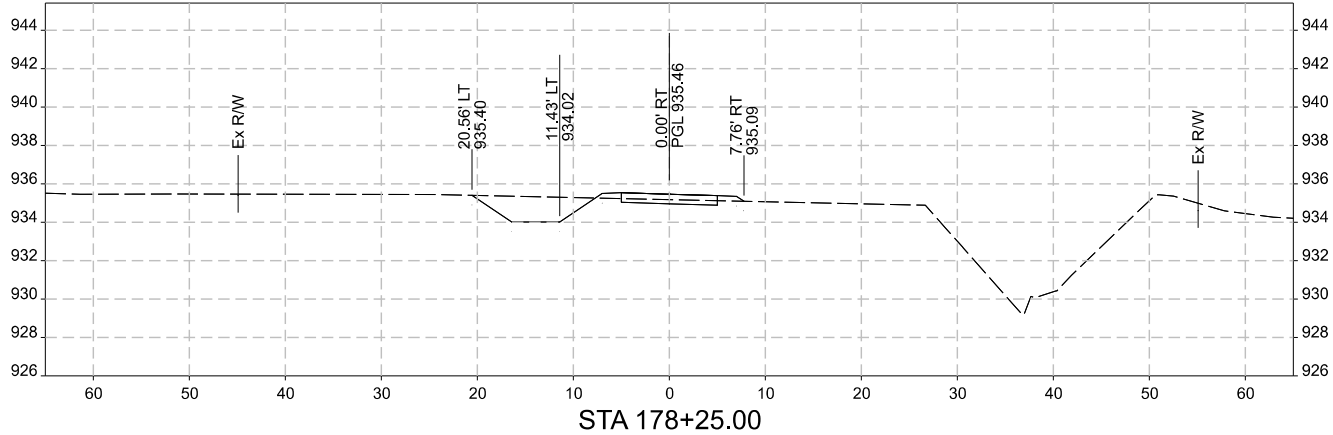
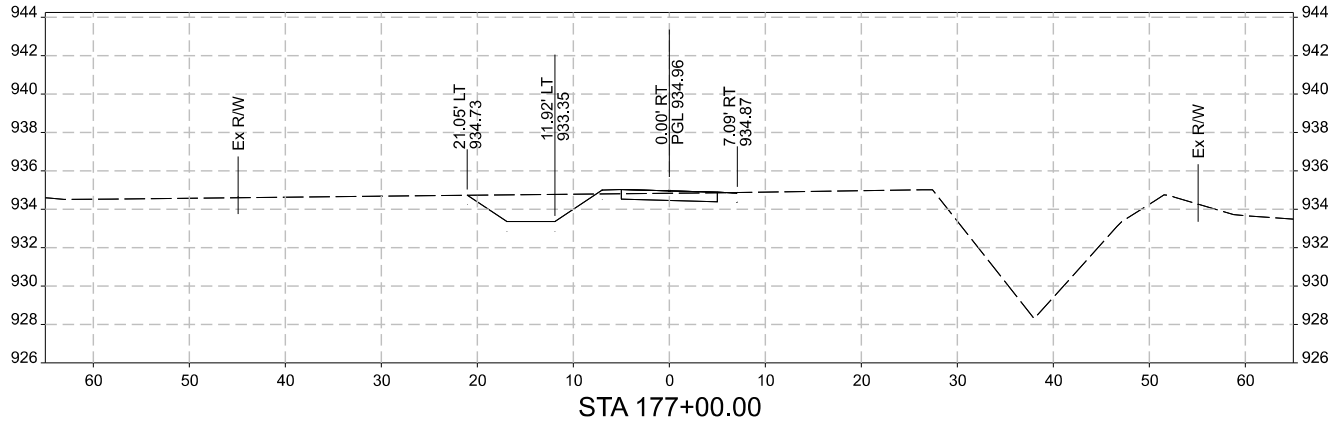
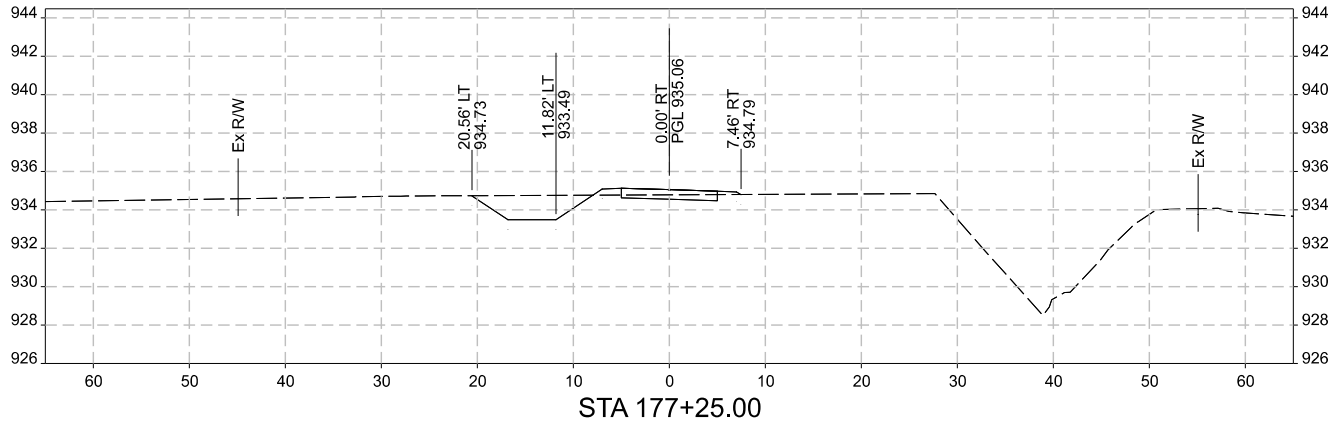
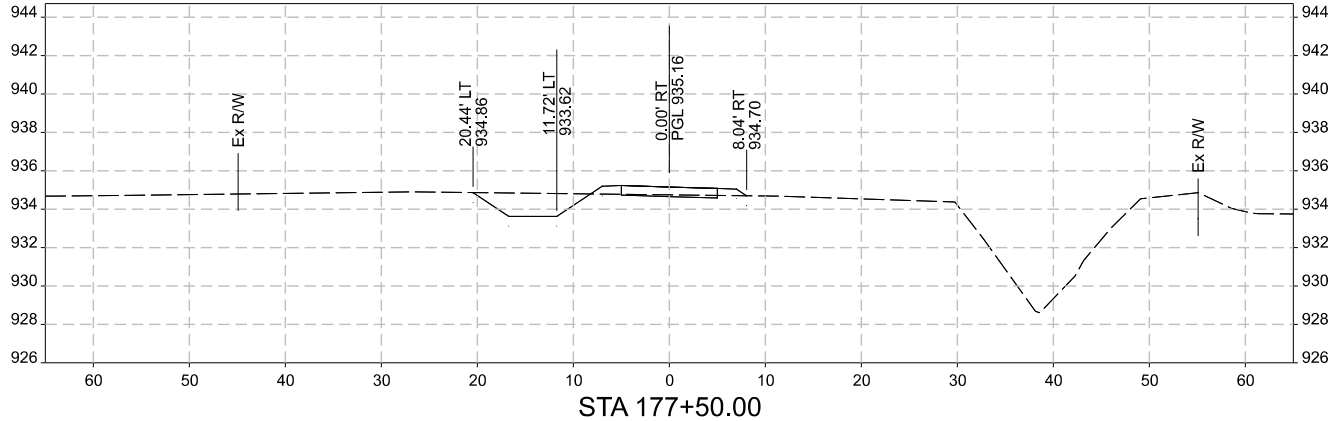
POLK COUNTY, IOWA

SNYDER & ASSOCIATES

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.27



MARK

Engineer: AMF

Checked By: TNJ

Date: 12/2/2025

REVISION

Scale: 1"= 10'

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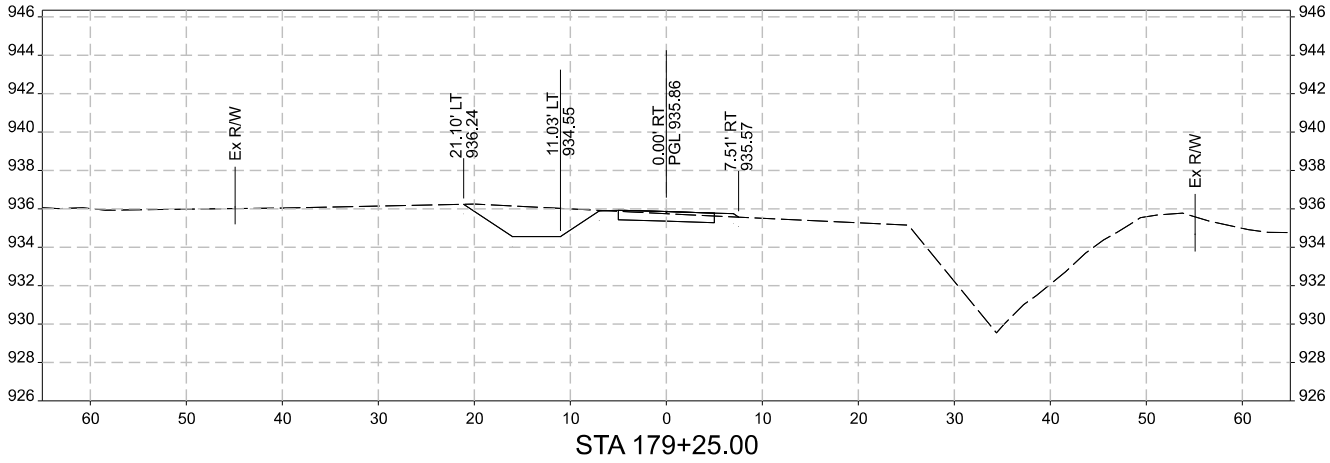
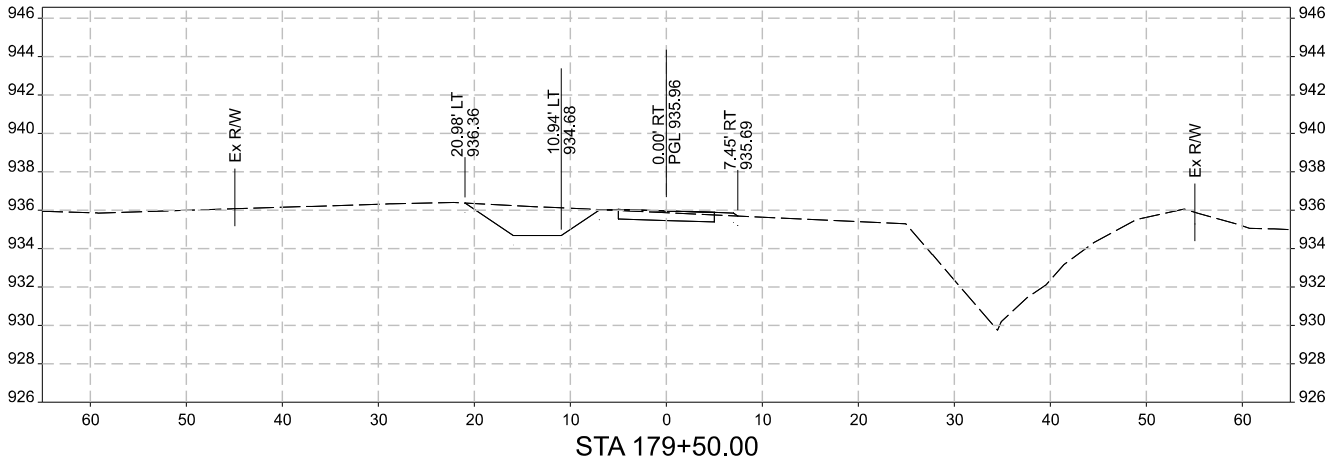
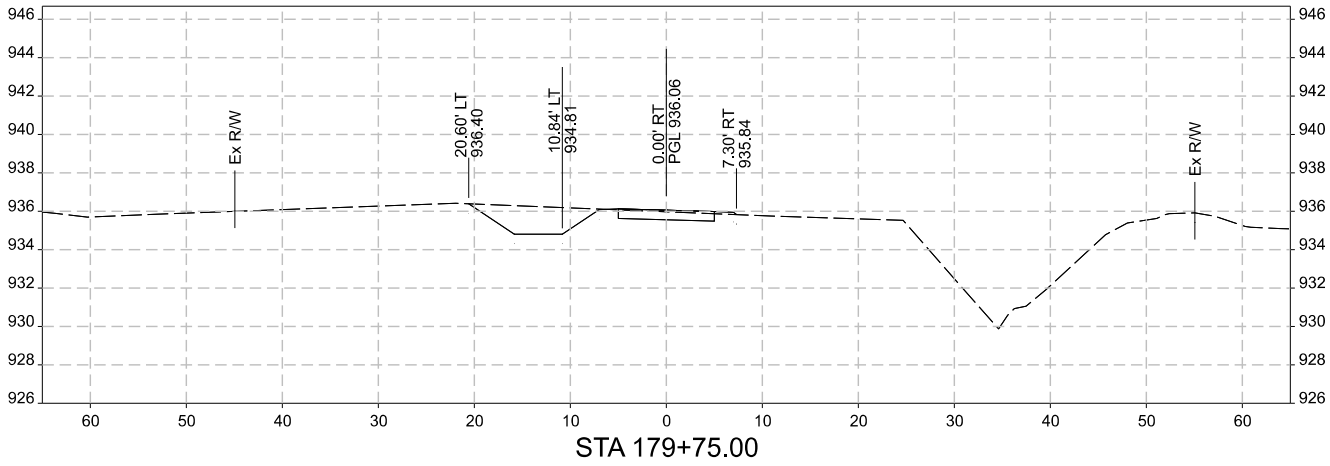
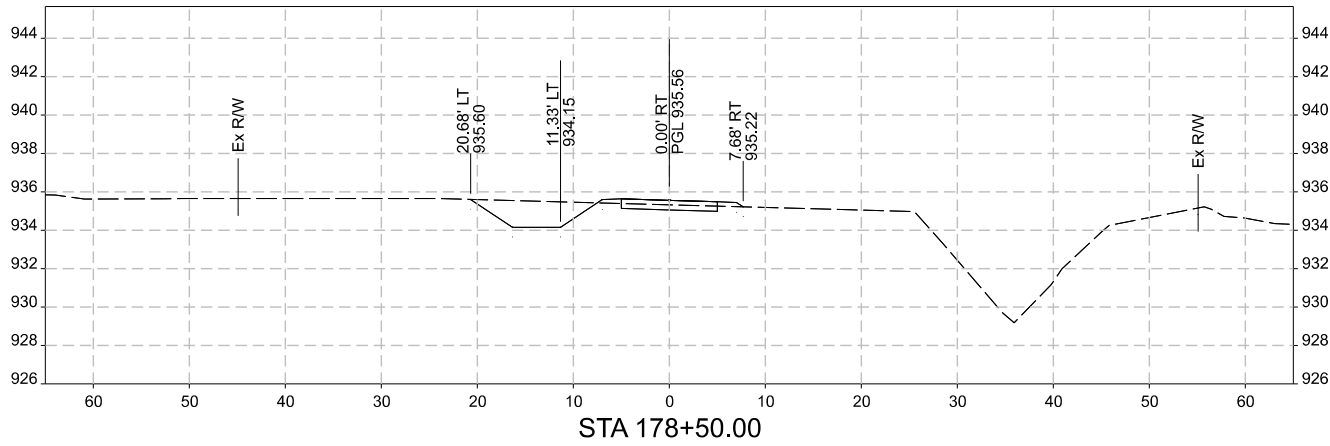
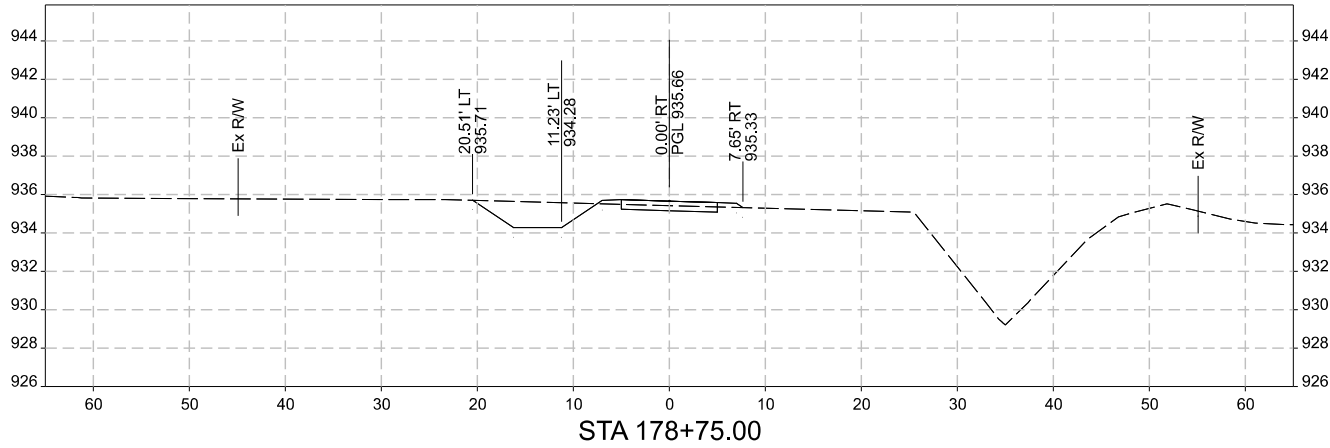
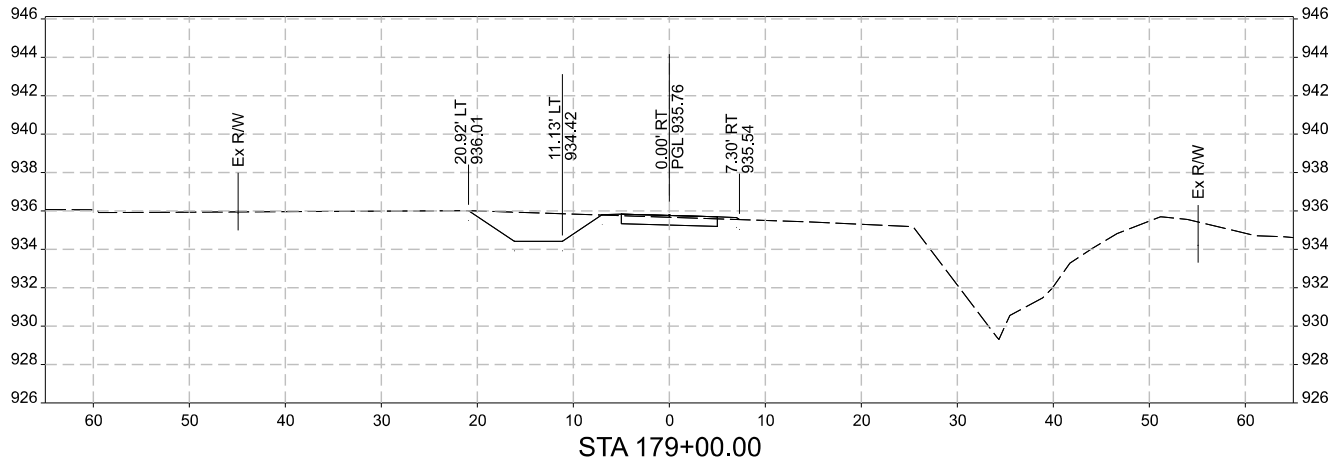
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DOT: TAP-L-007(248)-81-77

Project No: 1241375

Sheet W.29

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MARK

Engineer: AMF

Checked By: TNJ

Date: 12/2/2025

REVISION

Scale: 1"= 10'

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DATE

1"= 10'

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BY

Sheet W.30

POLK COUNTY, IOWA

MAINLINE CROSS SECTIONS

2727 SW SNYDER BLVD

ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.30

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

2727 SW SNYDER BLVD

ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.30

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

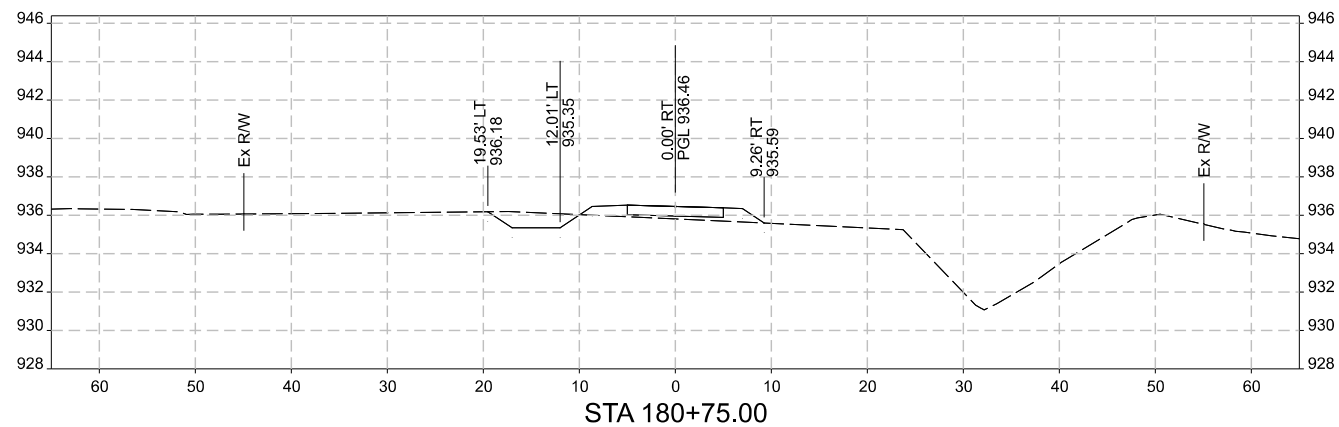
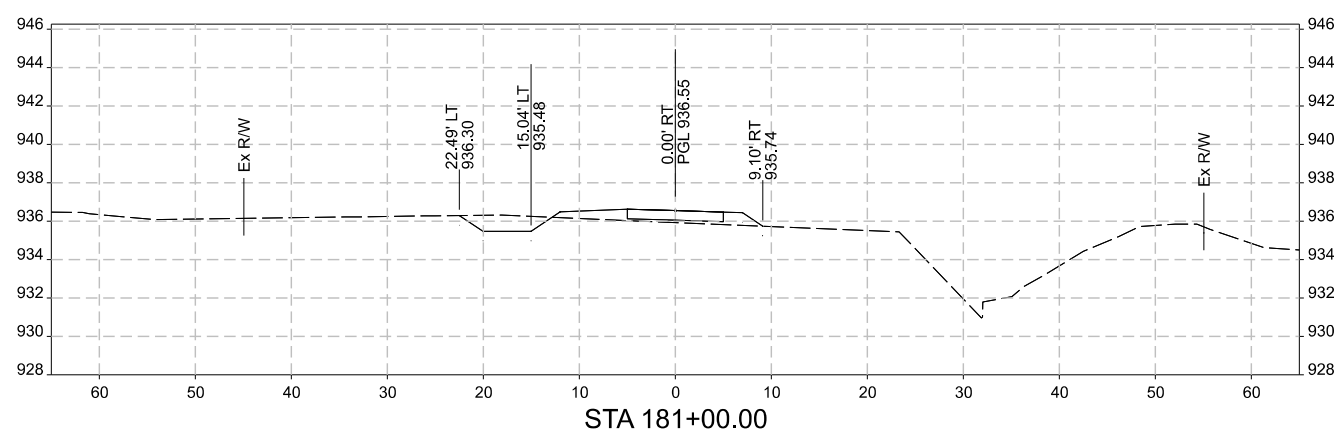
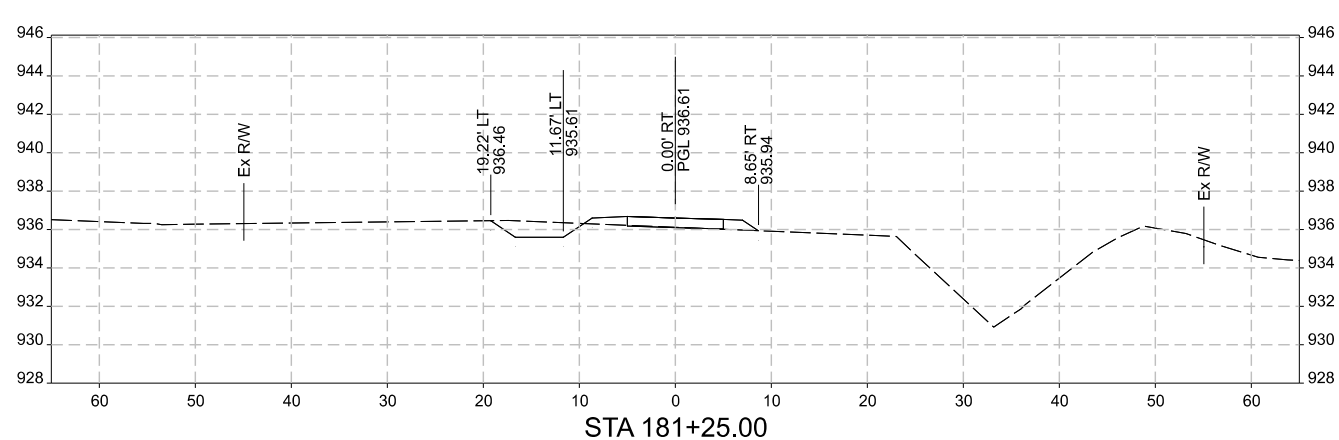
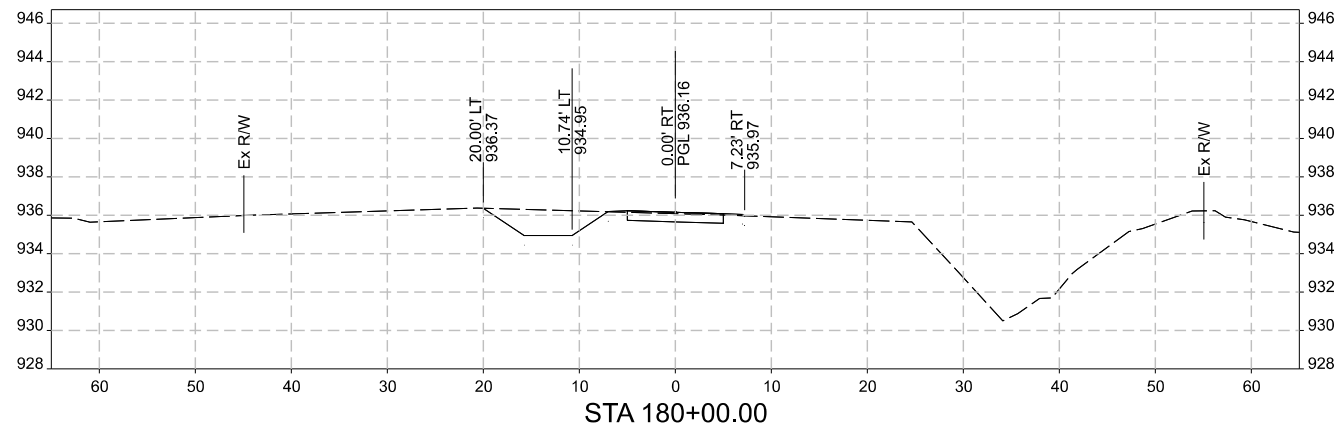
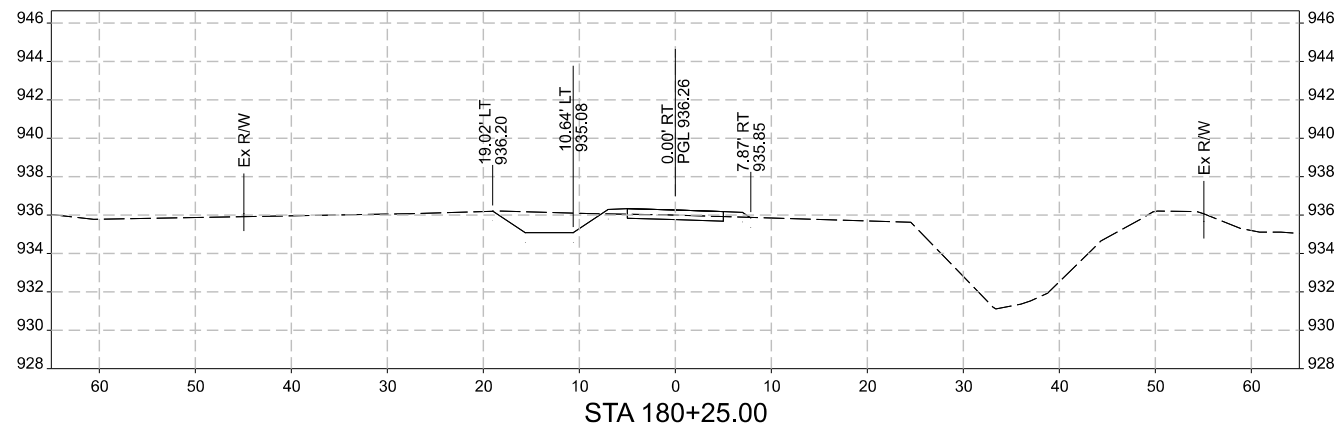
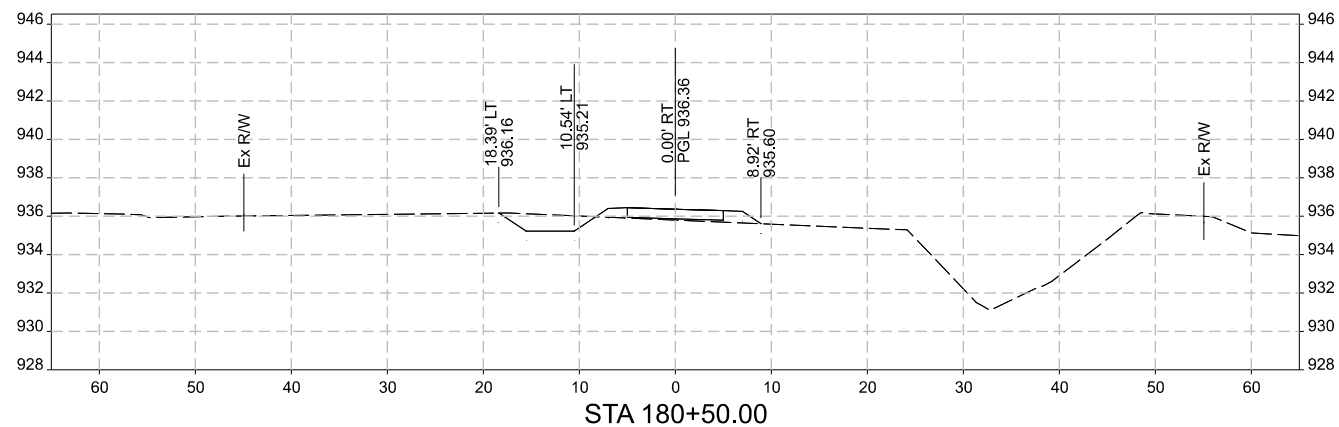
2727 SW SNYDER BLVD

ANKENY, IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

Project No: 1241375

Sheet W.30

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POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

POLK COUNTY, IOWA

SNYDER & ASSOCIATES, INC.

2727 SW SNYDER BLVD
ANKENY, IOWA 50023

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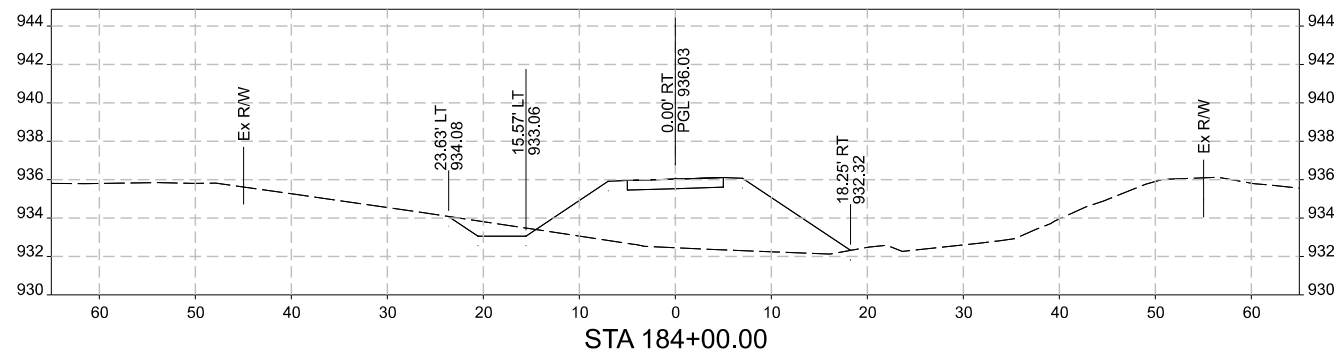
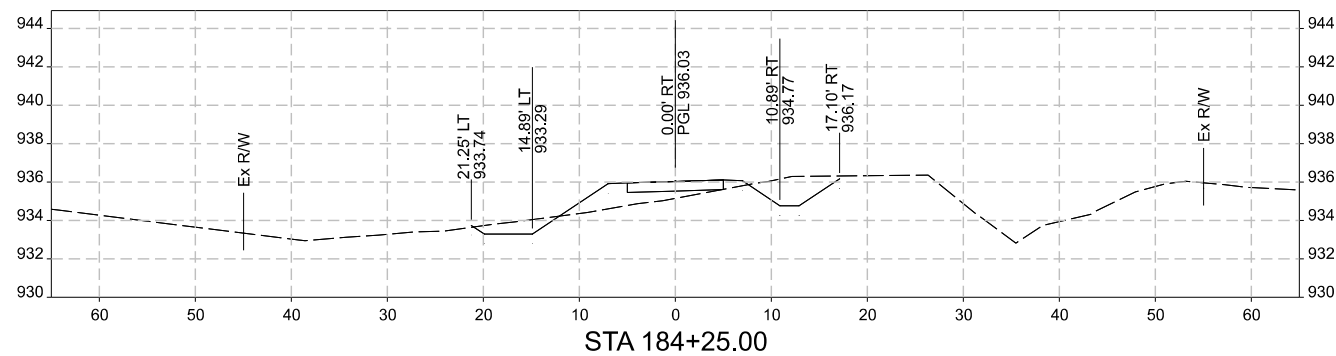
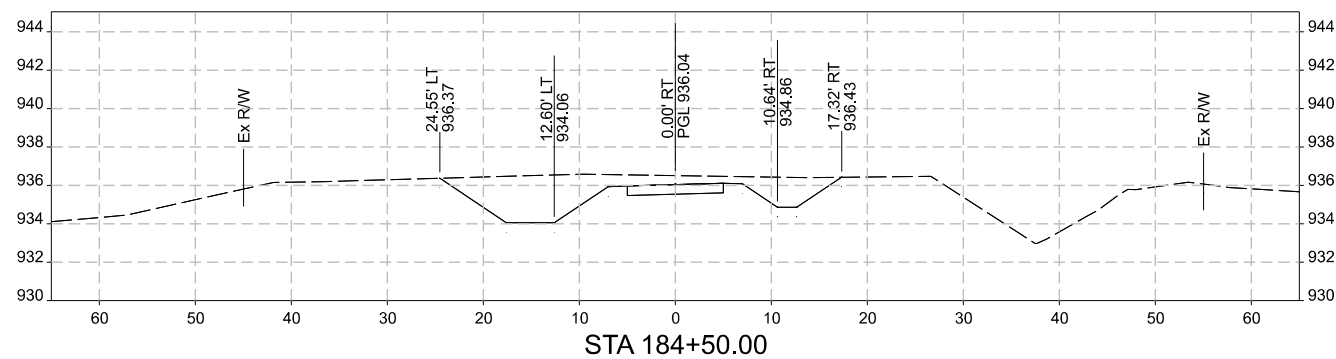
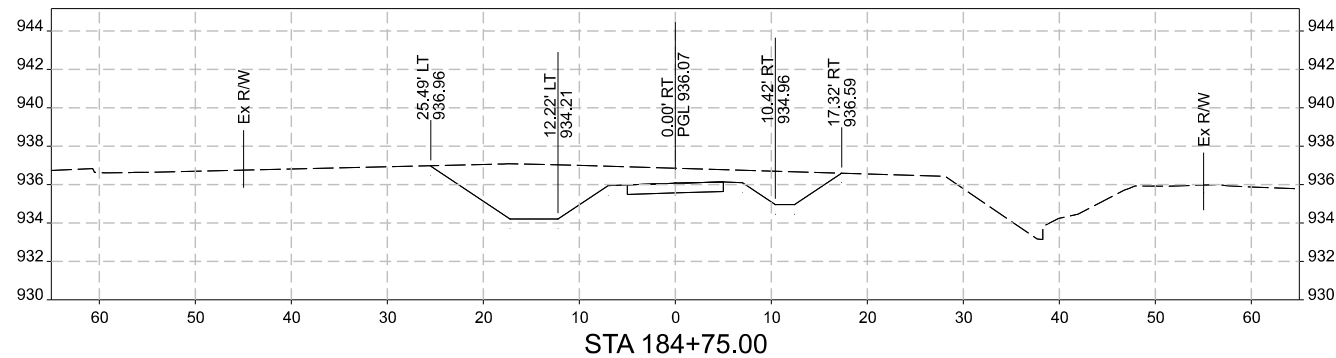
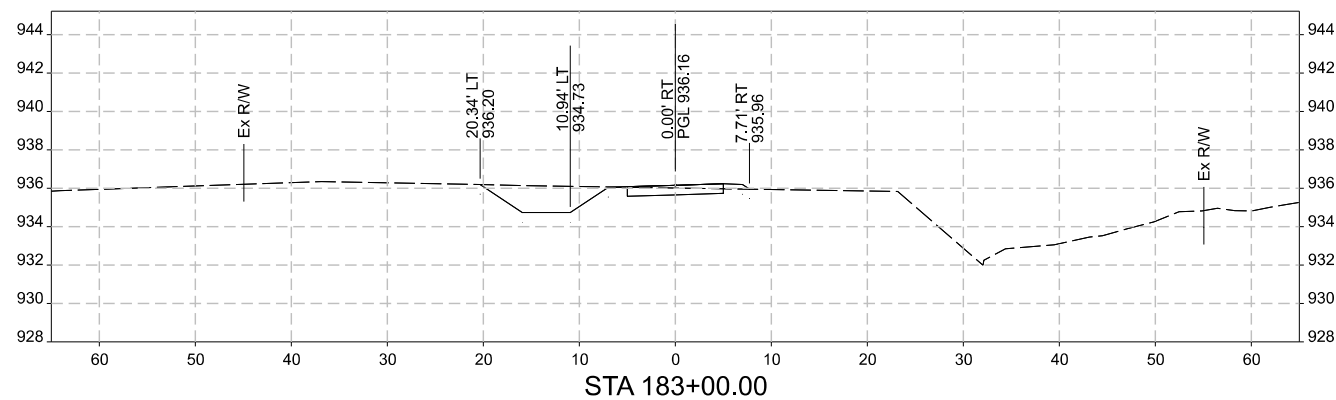
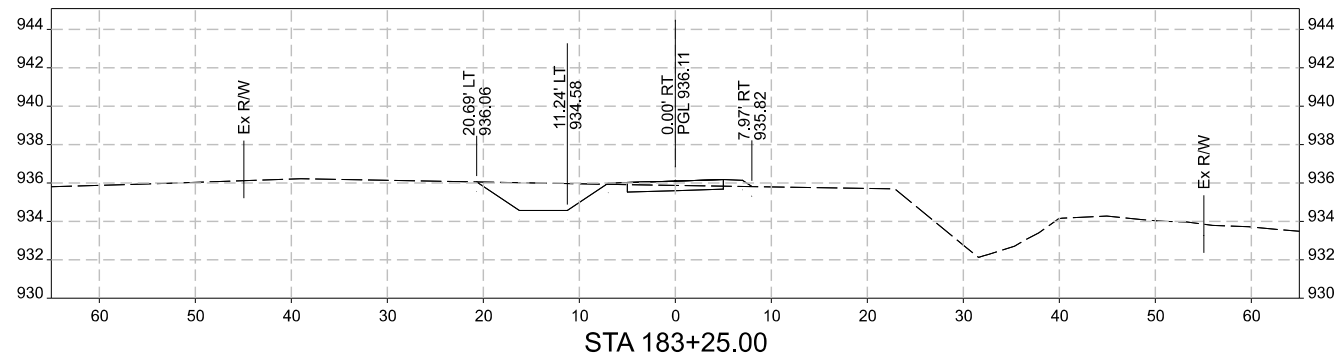
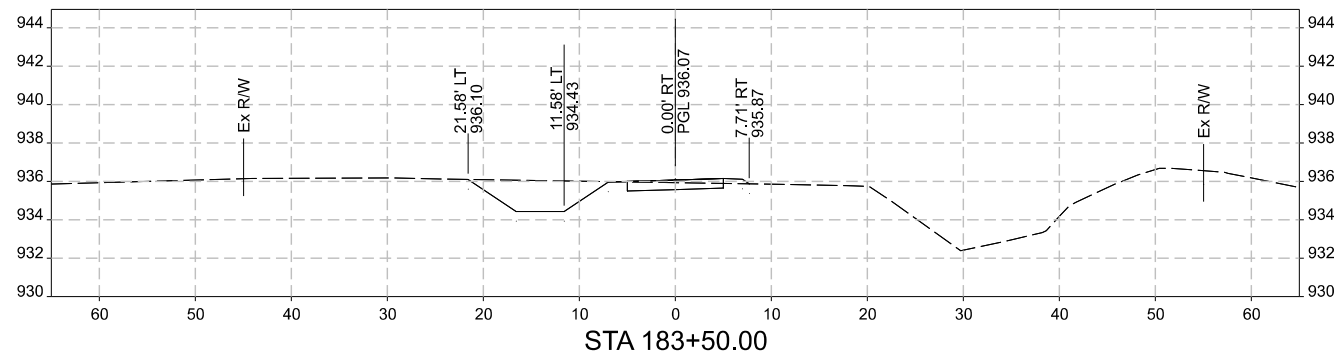
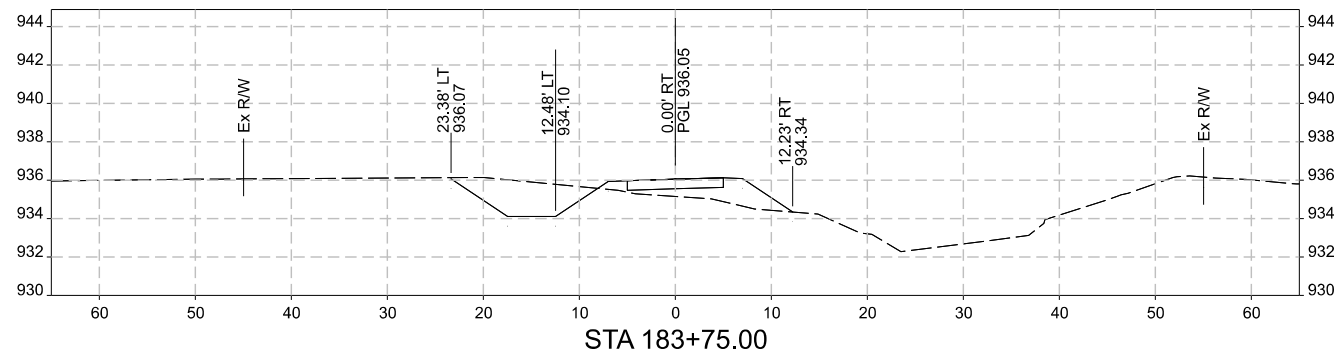
Sheet W.31

Sheet W.31



Project No: 1241375

Sheet W.31



POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

POLK COUNTY, IOWA



Project No: 1241375

Sheet W.33

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ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

2727 SW SNYDER BLVD
ANKENY IOWA 50023

ANKENY IOWA 50023

515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

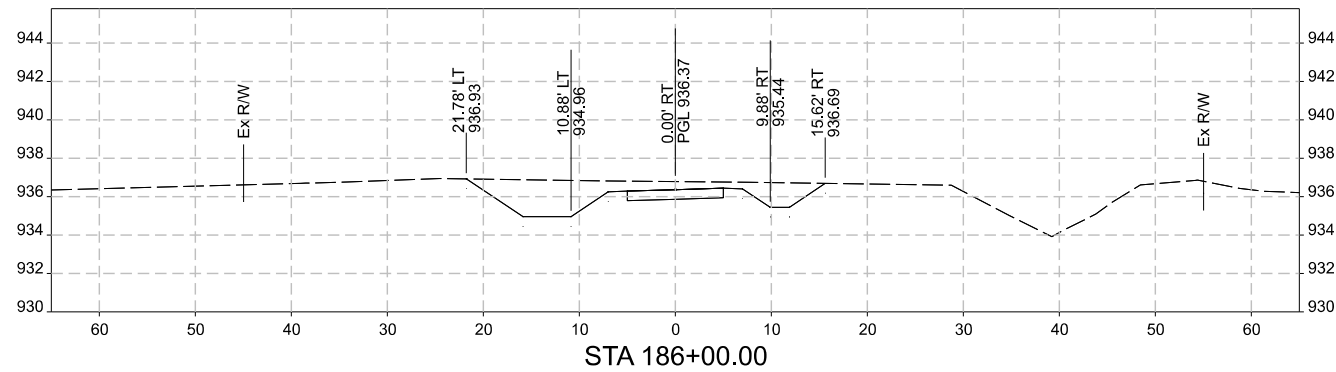
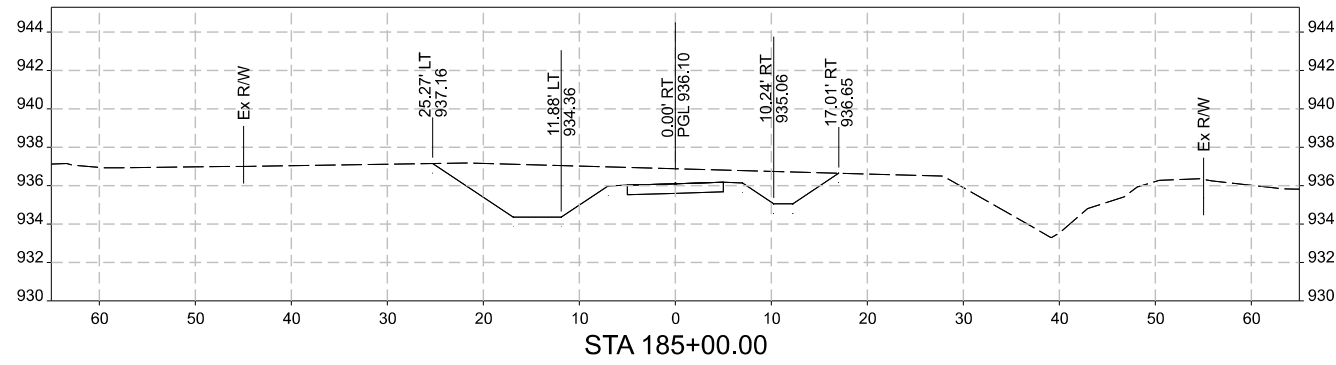
DOT TAP-U-CO77(249)-81-77

Sheet W.33

MARK		REVISION	DATE	BY
Engineer: AMF	Checked By: TJU	Scale: 1"= 10'		
Technician: JDS	Date: 12/2/2025	Field Bk:	Pg:	

DOT TAP-UC071649-48-77
 Project No: 1241375

Sheet W.33

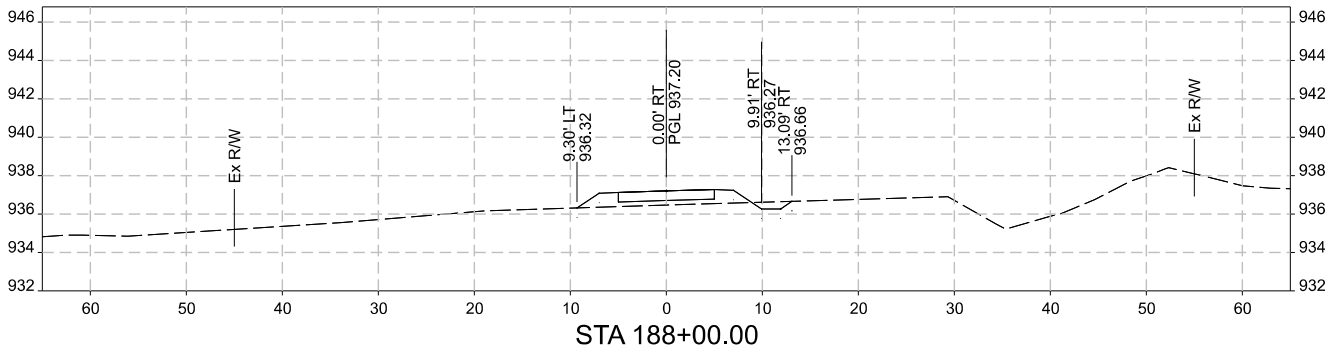
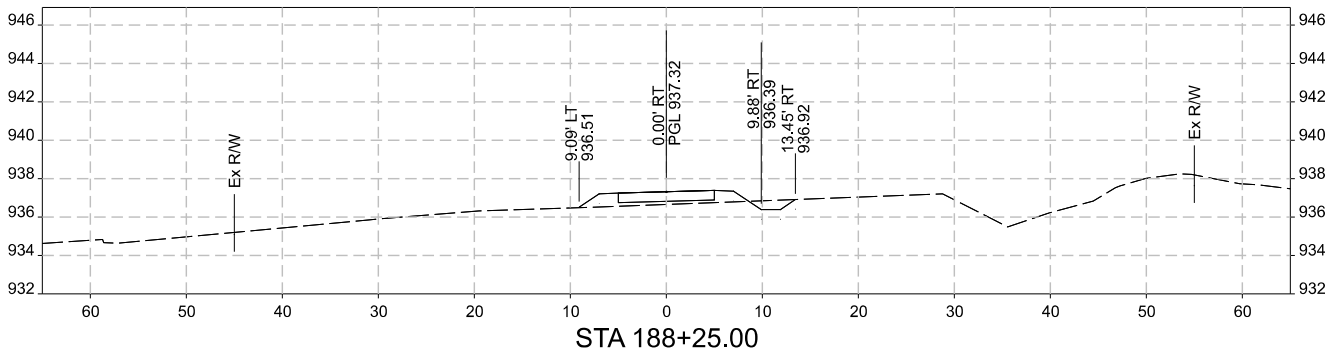
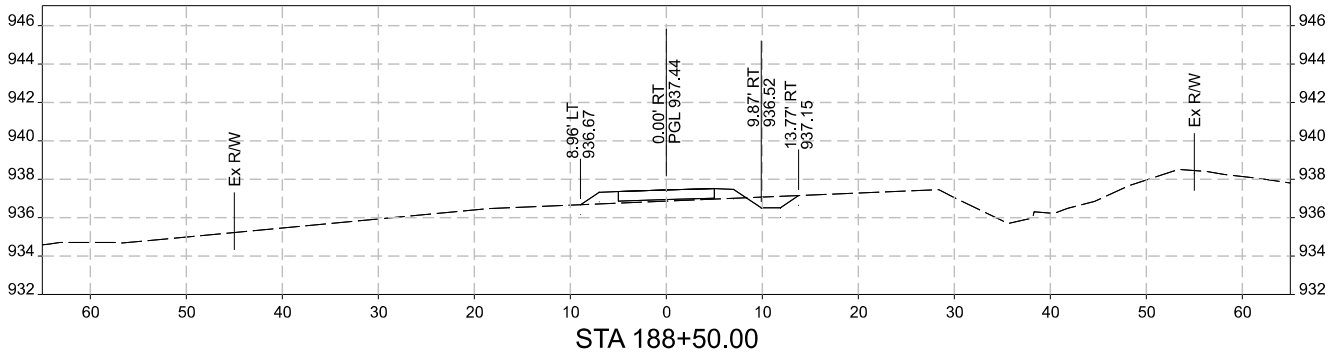
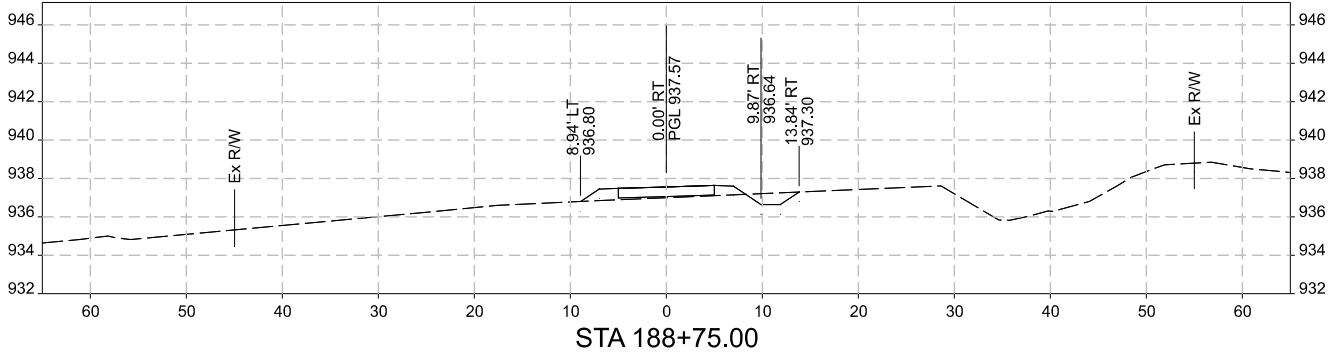
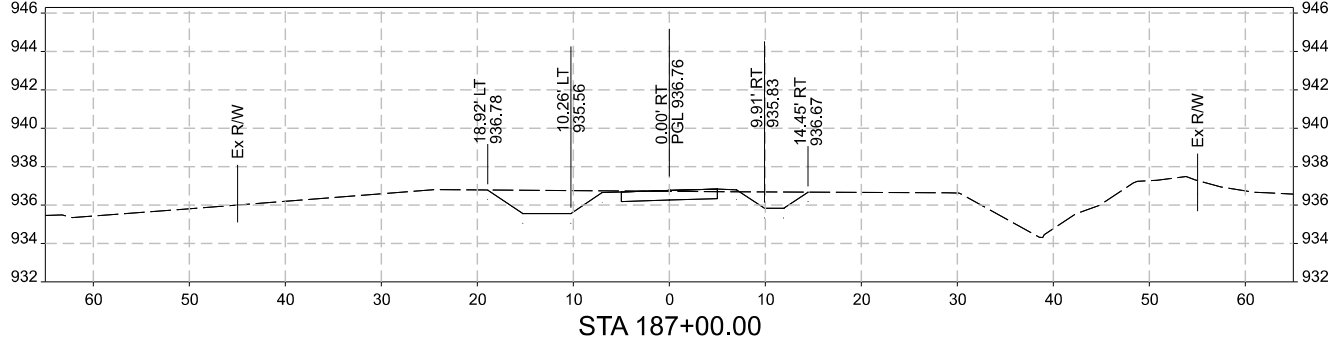
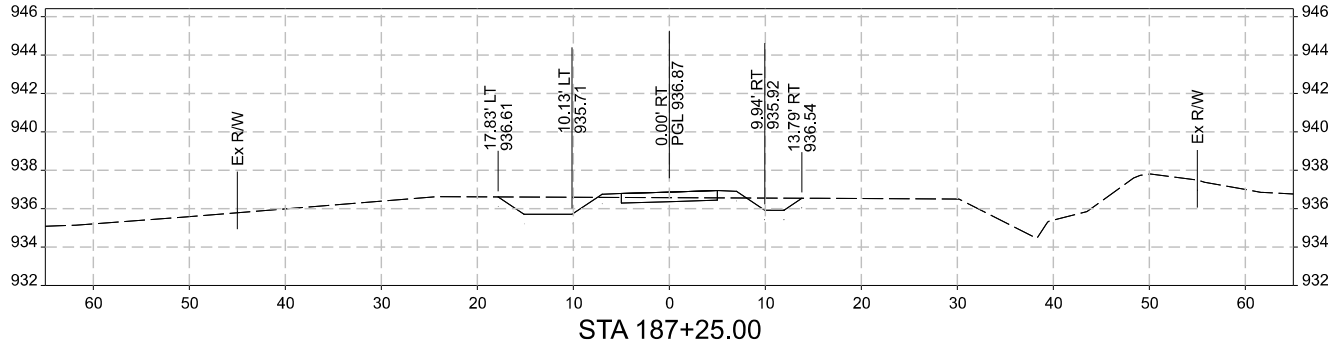
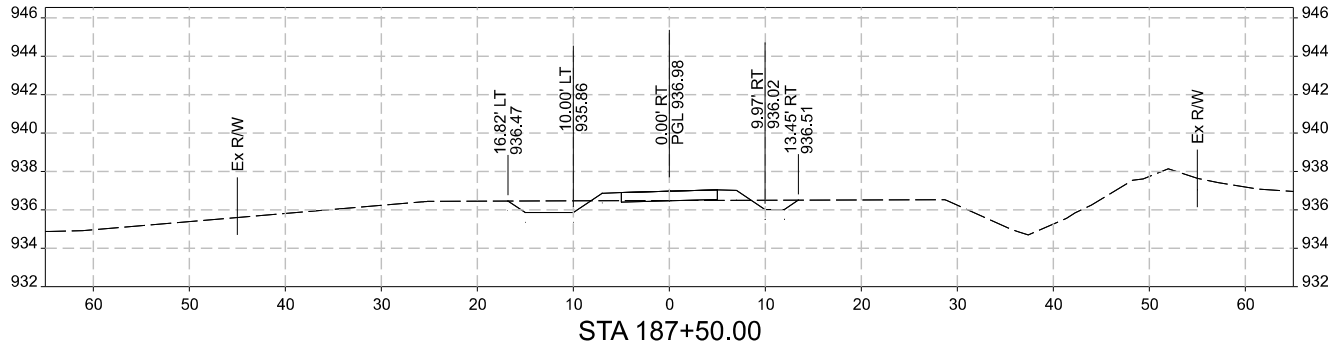
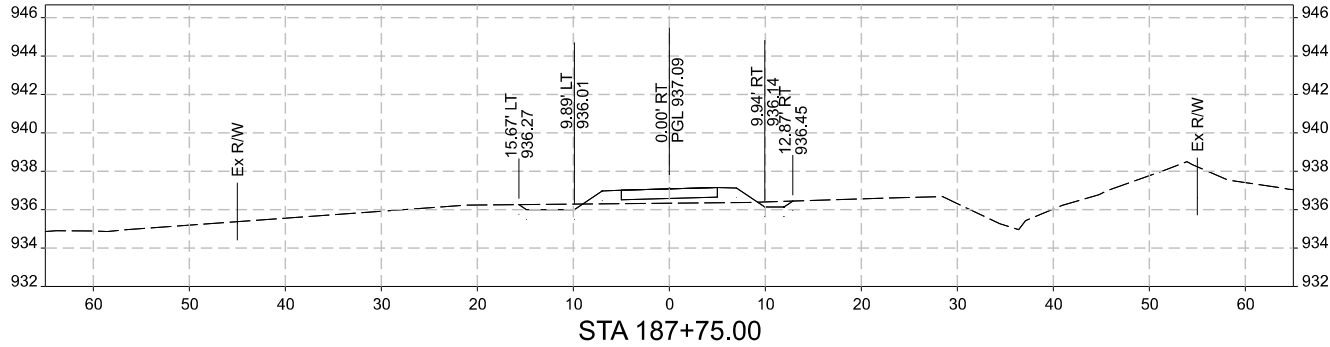


POLK COUNTY, IOWA

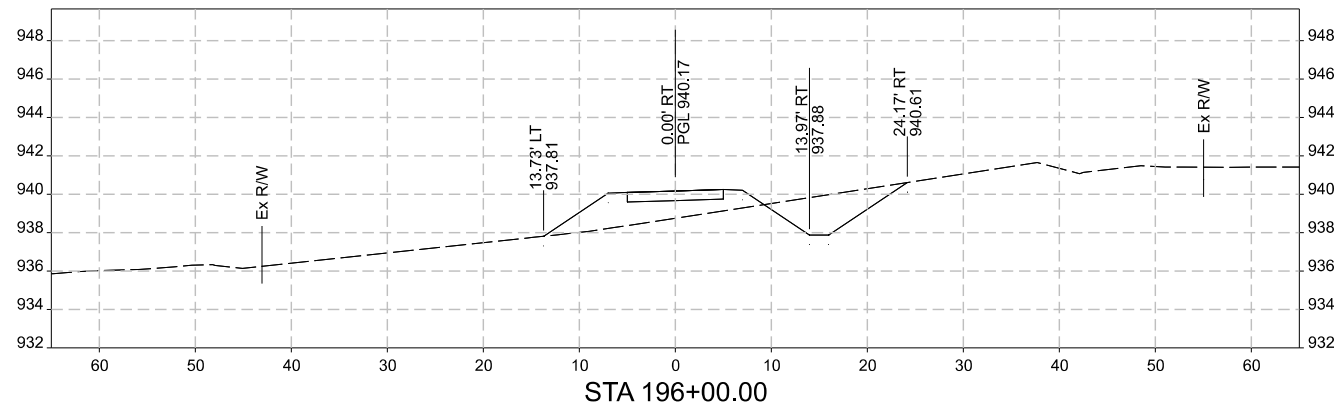
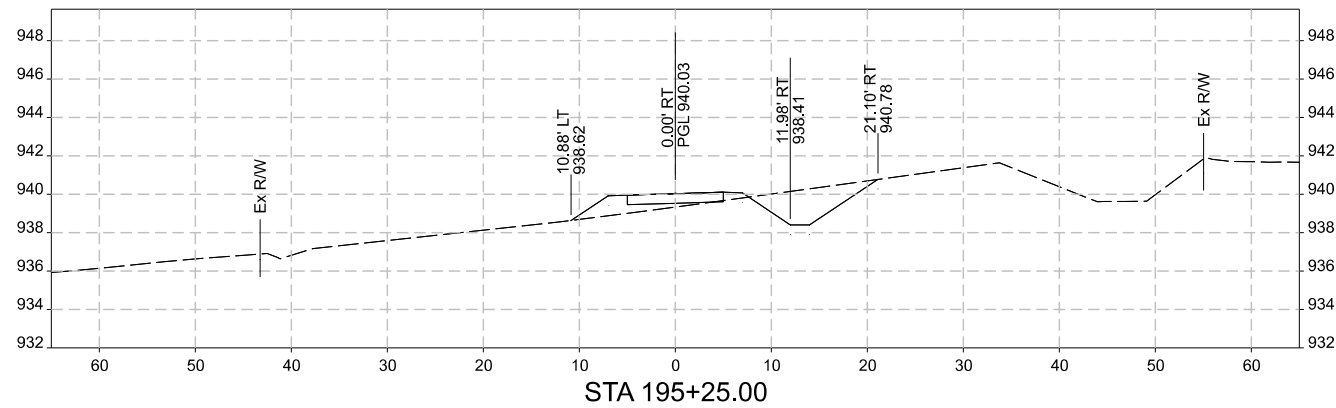
Sheet W.34

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

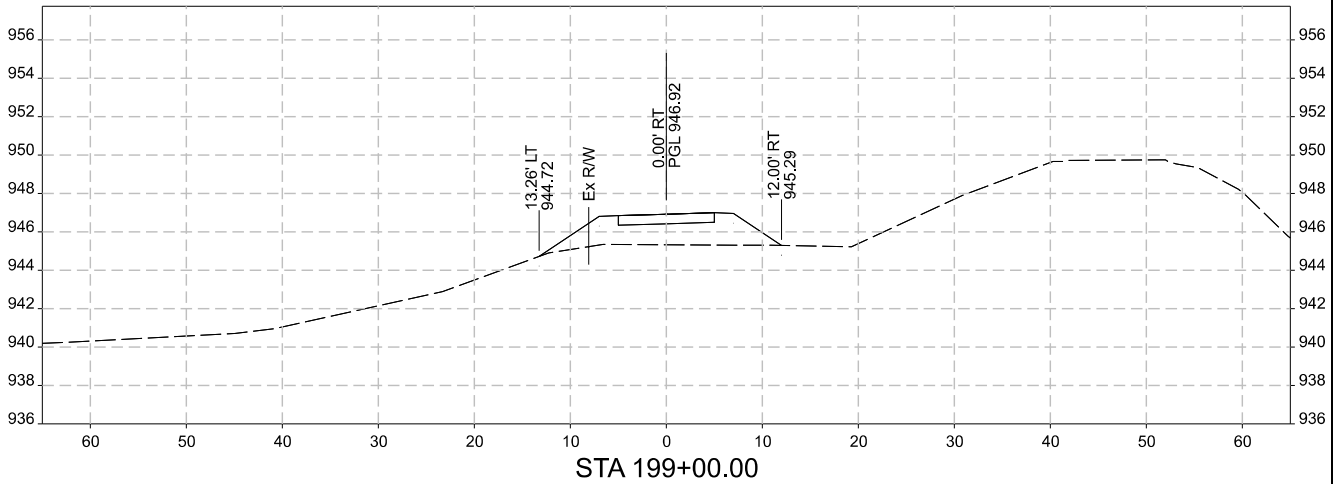
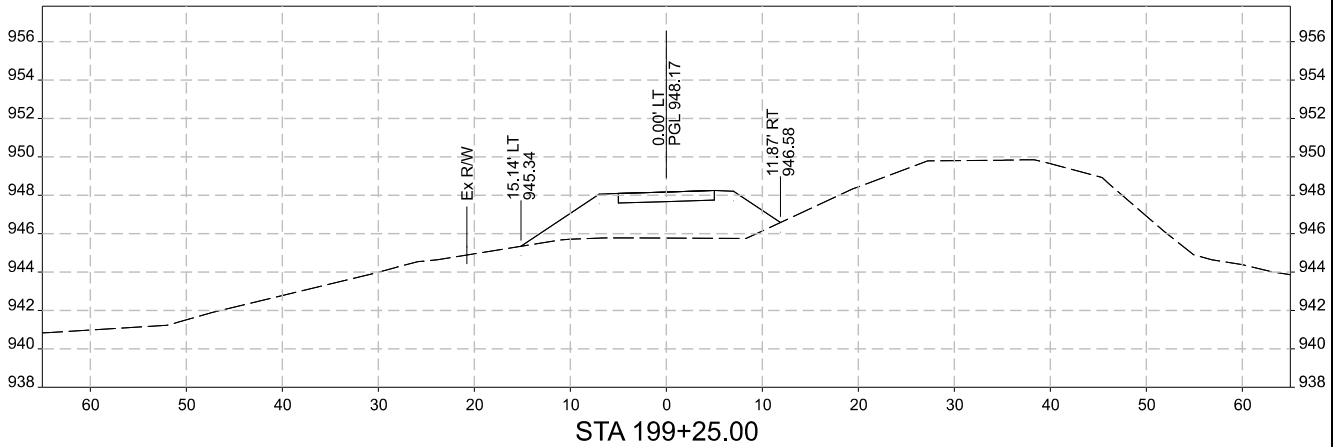
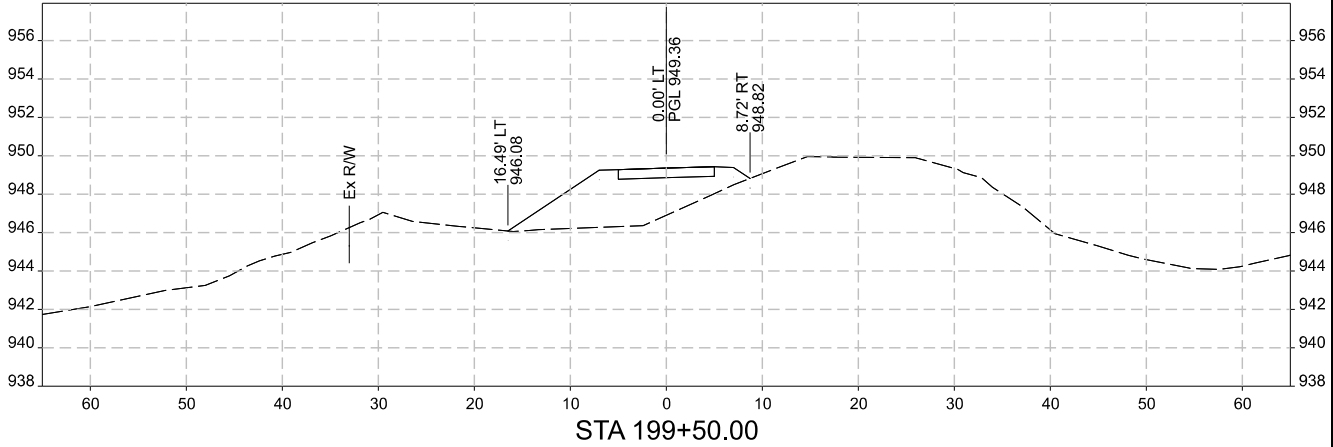
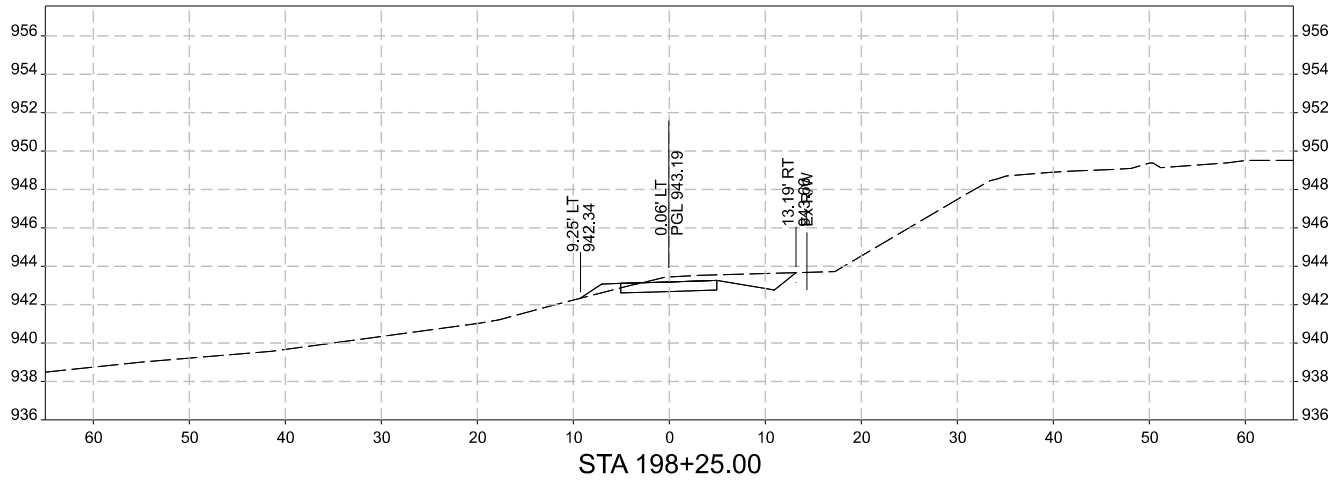
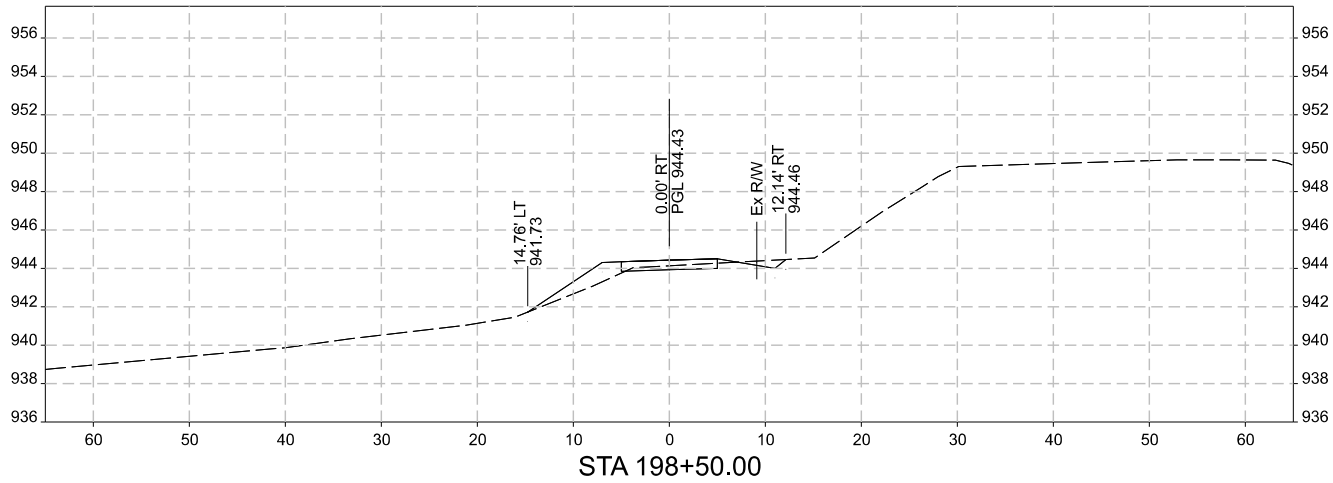
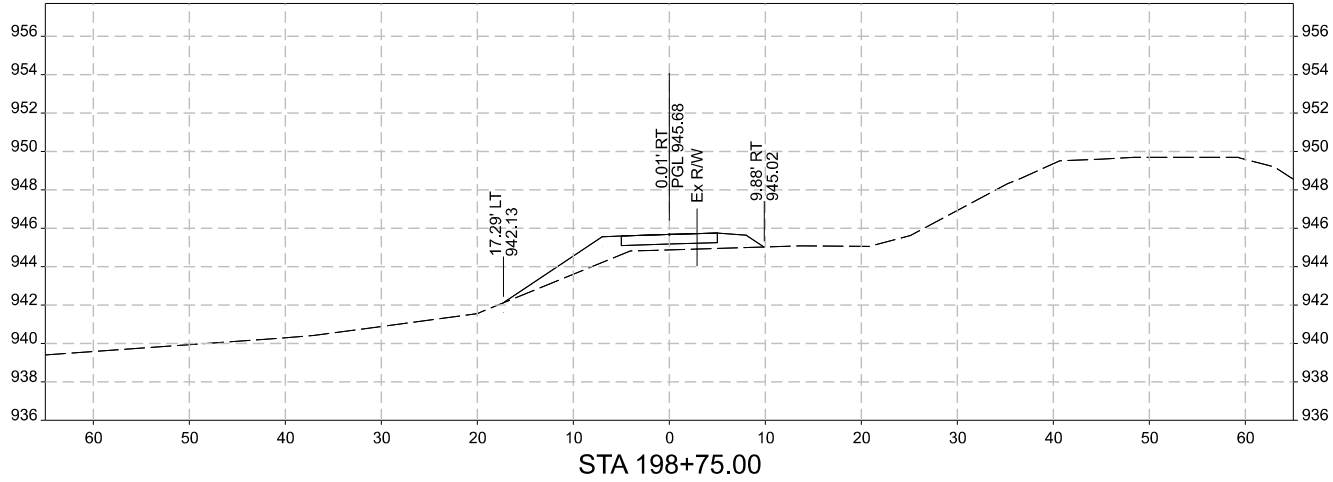
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Sheet W.37



Sheet W.41



MARK

Engineer: AMF

Checked By: TNU

Date: 12/2/2025

REVISION

Scale: 1"= 10'

Field Bk:

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DATE

1"= 10'

Field Bk:

Pg:

BY

1"= 10'

Field Bk:

Pg:

DOT: TAB-LC07(248)-81-77

Project No: 1241375

Sheet W.42

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

POLK COUNTY, IOWA

2727 SW SNYDER BLVD

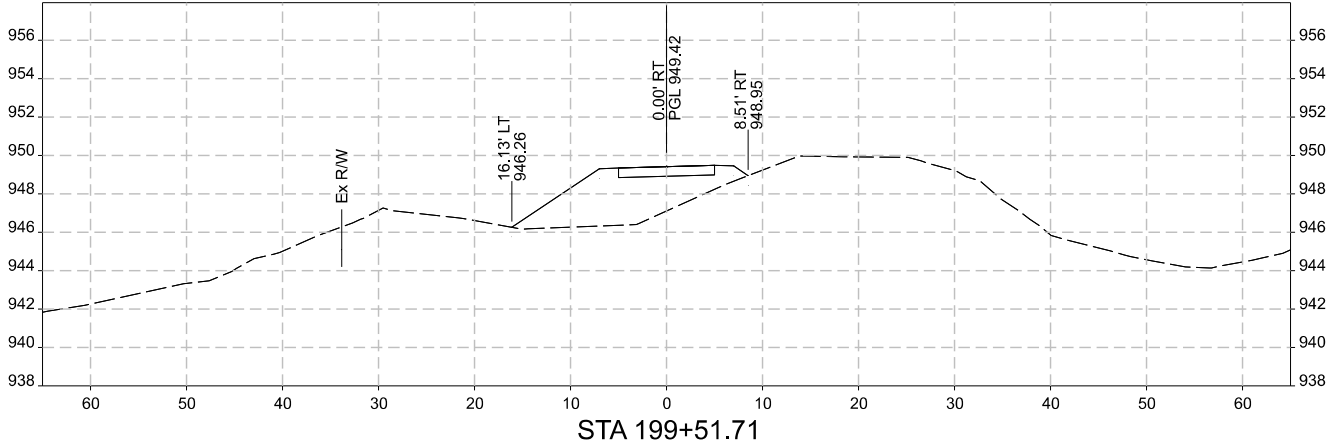
ANKENY, IOWA 50023


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SNYDER & ASSOCIATES

Project No: 1241375

Sheet W.42





Project No: 1241375

Sheet W.43

POLK CITY JUNCTION TO HIGH TRESTLE TRAIL CONNECTOR

MAINLINE CROSS SECTIONS

SNYDER & ASSOCIATES, INC.

POLK COUNTY, IOWA

2727 SW SNYDER BLVD
ANKENY, IOWA 50023
515-964-2020 | WWW.SNYDER-ASSOCIATES.COM

DOT: TAB-L-C07(248)-81-77
Project No: 1241375

Sheet W.43