

PCC PAVEMENT - REPLACE
STP-057-1(044)--2C-12

BUTLER COUNTY

LETTING DATE
OCT 19, 2027

Field Exam - May 8, 2025

Attendees:
Ashton Johnson - D2 Staff Eng.
Dusty Rolando - D2 Staff Eng.
Chris Suntken - D2 Design Tech
Mark Nel - D2 EOT
Daryl Erickson - D2 DUC
Jason Dighton - Allison Maintenance
Ron Loecher - New Hampton RCE
Jimmy Ellis - Prelim. Bridge
Eric Diedrich - Prelim. Bridge

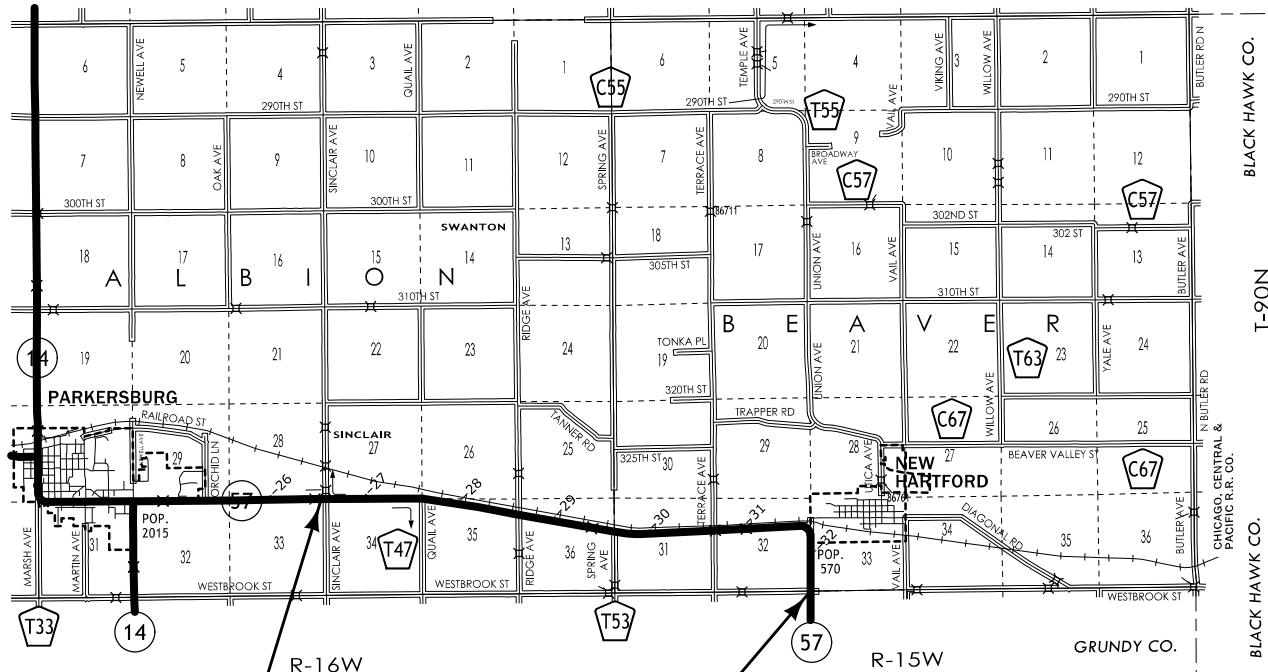


PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
BUTLER COUNTY
PCC PAVEMENT - REPLACE
From Co Rd T47 to the Grundy Co Line

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



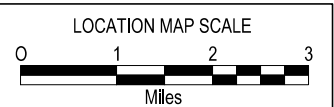
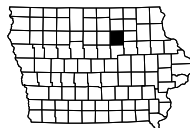
STA 210+66.0
BEGIN PROJECT
MP 26.57

STA 515+85.25
END PROJECT
MP 32.39

Structure:
Maint. # 1226.6S057
Struct # 16441

Structure:
Maint. # 1229.4S057
Struct # 16450

Structure:
Maint. # 12311S057
Struct # 16470



REVISIONS

TOTAL
60

PROJECT IDENTIFICATION NUMBER

24-12-057-010

PROJECT NUMBER

STP-057-1(044)--2C-12

R.O.W. PROJECT NUMBER

INDEX OF SHEETS

A.1	Title sheet & Location Map
B.1	Typical Detail
C.1-C.22	Estimate of Quantities, General Notes and Tabulations
CS.1	Longitudinal Subdrains
D.1-D.11	Mainline Plan Sheets
G.1-G.5	Survey Sheets and Alignment Coordinates
J.1-J.2	Traffic Control Sheets
L.1-L.5	Intersection Sheets
R.1-R.11	Erosion Control & As-Built Plan Sheets
T.1-T._	Earthwork Sheets
U.1	Special Detail Sheet
W.1-W._	Mainline Cross Sections

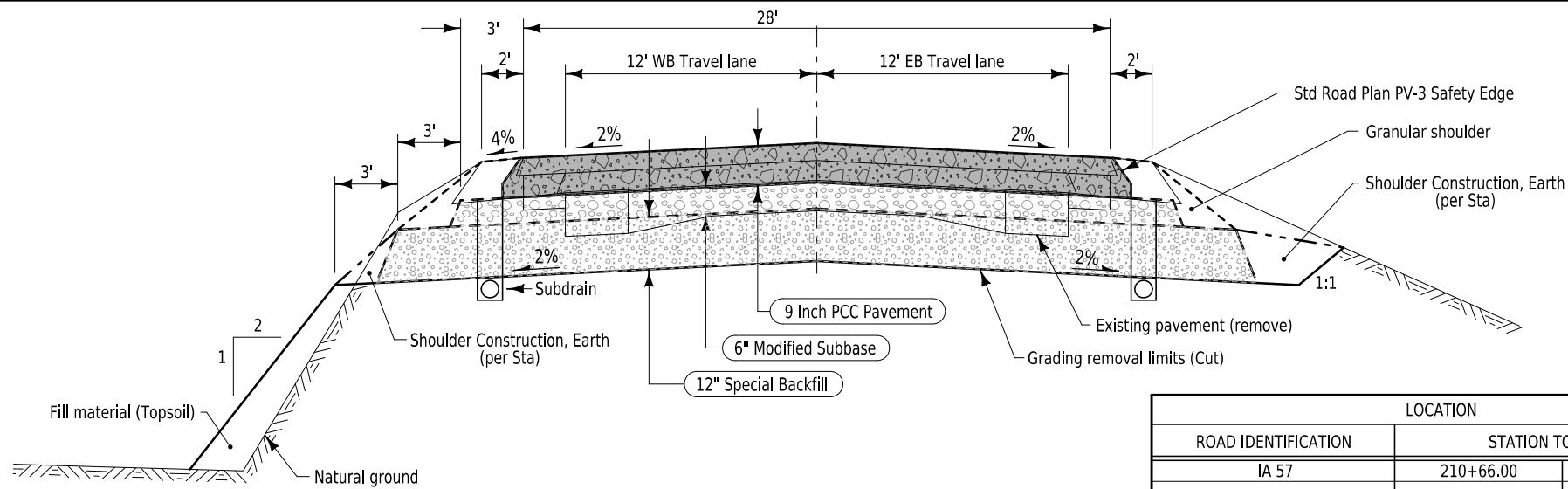
PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN - MAY 8, 2025

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Dusten D. Rolando	Primary Signature Block	X
X	X	X	X



LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
IA 57	210+66.00	515+85.25

TYPICAL CROSS SECTION PCC PAVEMENT - REPLACE

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

PCC Reconstruction - DOT Costs : Roadway Items
PCC Reconstruction - County Costs :

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				PCC Reconstruction - DOT Costs	PCC Reconstruction - County Costs	Total	
1	2102-0425071	SPECIAL BACKFILL	CY	45,730		45,730	Reclaimed asphalt pavement (RAP) and reclaimed HMA shall not be used for the special backfill.
2	2102-2710090	EXCAVATION, CLASS 10, WASTE Idea to try and use this somewhere else? No place for it though...	CY	89,000	1,137	90,137	All waste must be removed from the project site. Contractor is notified that the excavation area is anticipated to be excessively wet and specilized equipment, blocking or mats may be required to complete the work as shown on the plans. Overhaul will not be measured or paid for , but shall be considered incidental to excavation on this project.
3	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	1,776		1,776	Refer to Tab. 103-10 and the T Sheets.
4	2115-0100000	MODIFIED SUBBASE	CY	19,236	648	19,884	Refer to Typicals _____ and _____ on Sheet _____.
5	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	11,715		11,715	Refer to Typical 7110 and Tabulation 112-9. Requires XXX cu. yds. of earth shoulder fill, available within the ROW from Sta. XXX+XX to Sta. XXX+XX OR to be provided by the Contractor, which shall be considered incidental to this bid item.
6	2122-5500090	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 9 IN.	SY	250		250	
7	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	605		605	Includes _____ Sta. of _____ ft wide shoulders on mainline, _____ Sta. of _____ ft shoulders on mainline, and _____ Sta. of _____ ft wide shoulders on sideroads. ----- Requires _____ cu. yds. of Class 10 for Earth Shoulder Fill. Material is available from Borrow _____. ----- Requires a minimum of 4 inches of topsoil. Place according to Article 2105.03,B of the Standard Specifications.
8	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	95,000	1,767	96,767	
9	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1		1	
10	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	114,960		114,960	
11	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	73,692		73,692	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				PCC Reconstruction - DOT Costs	PCC Reconstruction - County Costs	Total	
12	2401-6750001	REMOVALS, AS PER PLAN	LS	1		1	Includes all work for removal and off-site disposal of ?????. Removal of scheduled items shall be in accordance with Section 2401, of the Standard Specifications. Any damage to material not to be removed shall be the responsibility of the Contractor and repaired at no extra cost to the state. Contractor to add the following information when submitting the Iowa DNR "Notification of Bridge Demolition and Renovation" form: Name of Asbestos Inspector: ? Date Inspected: ? IA License Number: ? Inspector Phone: ? Procedure used to detect the presence of asbestos materials: Polarized Light Microscopy (PLM) (Designer to add this reference note to all renovation projects where asbestos is present. Information for completing the note can be found through the Project Information Inspections button. Note: Related Bridge Bureau plan note E485 will also need to be added to the plan set.)
13	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	150		150	
14	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	60,200		60,200	
15	2502-8225010	SUBDRAIN OUTLET, 500-10	EACH	120		120	
16	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	400		400	
17	2505-4008300	STEEL BEAM GUARDRAIL	LF	125		125	
18	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	4		4	
19	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	4		4	
20	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4		4	
21	2510-6745850	REMOVAL OF PAVEMENT	SY	95,000		95,000	A. Refer to Tabs.110-1 and 102-5 on Sheet _____. B. HMA material shall be milled off existing roadway pavement and stockpiled as per Note _____ on Sheet _____, and will be paid for under the Pavement Scarification bid item.
22	2520-3350010	FIELD LABORATORY	EACH	1		1	
23	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	940		940	
24	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	610		610	
25	2528-2518000	SAFETY CLOSURE	EACH	9		9	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				PCC Reconstruction - DOT Costs	PCC Reconstruction - County Costs	Total	
26	2528-8445110	TRAFFIC CONTROL	LS	1		1	Refer to Traffic Control Plan on Sheet _____. Refer to Traffic Control Plan on sheet C.2
27	2533-4980005	MOBILIZATION	LS	1		1	--
28	2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	605		605	
29	2548-0000320	MILLED CENTERLINE RUMBLE STRIPS, PCC SURFACE	STA	301		301	
30	2595-0005120	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR CHICAGO, CENTRAL AND PACIFIC RAILROAD / CEDAR RIVER RAILROAD COMPANY	LS		1	1	

100_01D
8/15/22

PROJECT DESCRIPTION

The existing pavement in this corridor will be removed and replaced at or near existing grade. Project also includes installing

TABULATION OF SILT FENCES					100_17 8/15/22
Refer to EC-201					
Line No.	Station From	Station To	Side	Length (FT)	Remarks

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

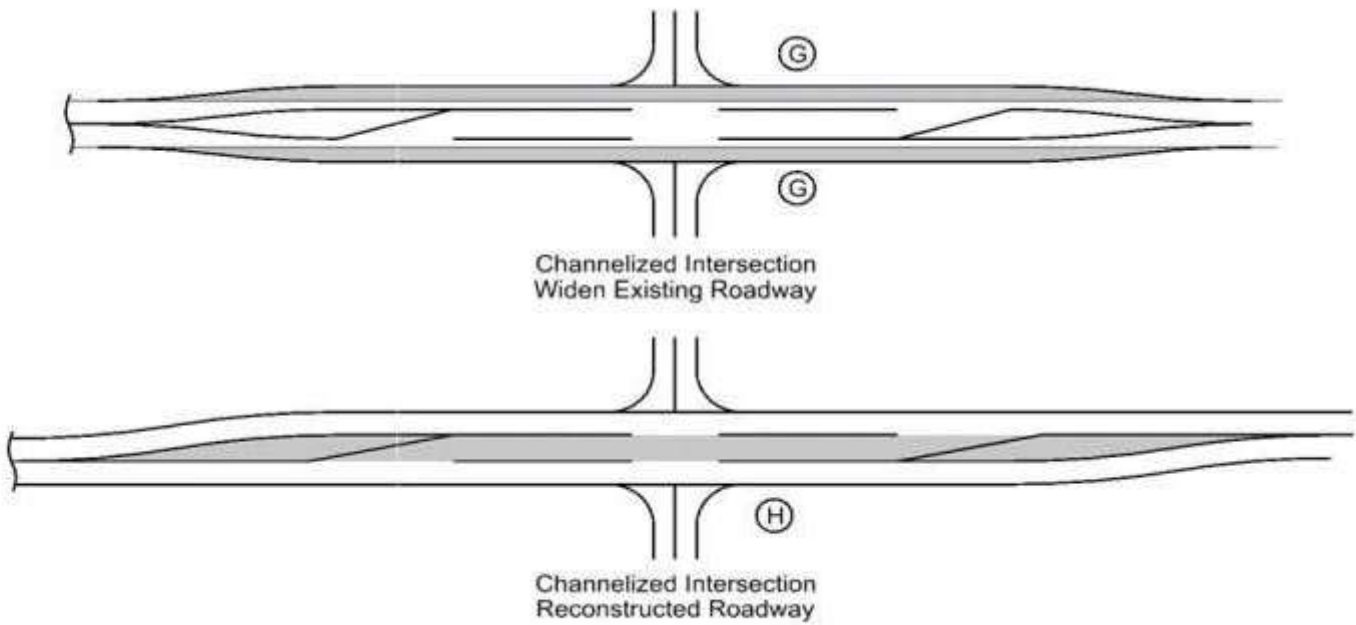
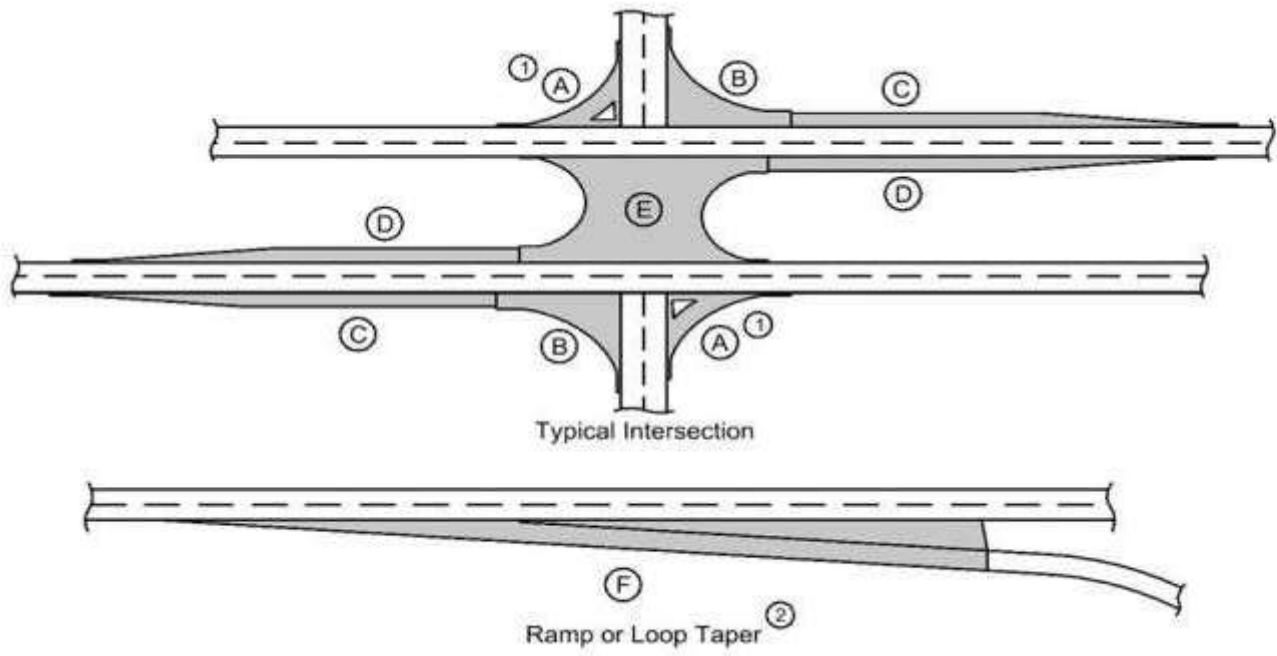
Possible Standards: EC-204

100_19

10/15/24

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks

PCC PAVEMENT



(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
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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

102_05 9/29/23																					
EXISTING PAVEMENT																					
Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks

102_05A
9/29/23

EXISTING HMA PAVEMENT FOR RECYCLING																	
For informational purposes only. When designed RAP is specified, process the RAP to control the uniformity of the final mixture.																	
Line No.	Route No.	Location	Year Placed	Layer	Thickness	Asphalt Binder Grade	Asphalt Binder Content	Description	Quality Type	Size	Content	% of -4 that is Type 2	% of +4 that is Type 2	% of +4 that is Type 3	% of +4 that is Type 4	% Crushed	% Limestone

STANDARDS The following Standards apply to construction work on this project.			105_04 10/21/25
Number	Date	Title	

108_08A
4/25/25

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-209, BA-210, BA-211, BA-221, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.

(1) Lane(s) to which the obstacle is adjacent.
(2) Not a bid item. Incidental to guardrail installation.

Line No.	Direction of Travel (1)	Side	Station	Offset (FT)	Barrier Transition Section	Barrier Transition Section (EA)	End Terminal	End Terminal Count (EA)	VT1 (LF)	VF (LF)	VT2 (LF)	ET (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type) (2)	Delineator SI-172 Type 1 (EA) (2)	Object Marker Type 2 (EA) (2)	Object Marker Type 3 Lt (EA)(2)	Object Marker Type 3 Rt (EA)(2)	Bolted End Anchor BA-202 (Type)	Bolted End Anchor BA-202 (EA)	Post Adapter BA-210 (EA)	Steel Beam Guardrail BA-200 (LF)	Remarks

108_13A 3/27/25 SAFETY CLOSURES Refer to Section 2528 of the Standard Specifications			
Station	Road Closure Qty.	Hazard Closure Qty.	Remarks

108_22

10/21/25

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.

***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17

CBW6: Crosswalk Bar (White) @ 10.00

CLW6: Crosswalk Line (White) @ 2.00

DLW4: Dotted Line (White) @ 0.22

ELW6: Edge Line Right (White) @ 1.00

MNY6: Median Nose (Yellow) @ 1.00

RLY4: Ramp Edge Line Left (Yellow) @ 0.67

SPW4: Sloped Curb 4" (White) @ 2.16

STY6: Standard Curb 6" (Yellow) @ 2.03

BCY6: Broken Centerline (Yellow) @ 0.25

CHW8: Channelizing Line (White) @ 1.33

DCY4: Double Centerline (Yellow) @ 1.34

DLW6: Dotted Line (White) @ 0.33

ELY4: Edge Line Left (Yellow) @ 0.67

NPY4: No Passing Zone Line (Yellow) @ 0.84

RLY6: Ramp Edge Line Left (Yellow) @ 1.00

SPW6: Sloped Curb 6" (White) @ 2.28

YLW2: Yield Line (White) @ 1.15

BLC6: Broken Line Contrast (White/Black) @ 0.50

CHW10: Channelizing Line (White) @ 1.67

DCY6: Double Centerline (Yellow) @ 2.00

DLY4: Dotted Line (Yellow) @ 0.22

ELY6: Edge Line Left (Yellow) @ 1.00

NPY6: No Passing Zone Line (Yellow) @ 1.25

SLW2: Stop Line (White) @ 4.00

SPY4: Sloped Curb 4" (Yellow) @ 2.16

BLW4: Broken Lane Line (White) @ 0.17

CHY8: Channelizing Line (Yellow) @ 1.33

DDY4: Double Dotted Line (Yellow) @ 0.44

DLY6: Dotted Line (Yellow) @ 0.33

LDW8: Lane Drop (White) @ 0.33

RLW4: Ramp Edge Line Right (White) @ 0.67

SLW4: Solid Lane Line (White) @ 0.67

SPY6: Sloped Curb 6" (Yellow) @ 2.28

BLW6: Broken Lane Line (White) @ 0.25

CHY10: Channelizing Line (Yellow) @ 1.67

DDY6: Double Dotted Line (Yellow) @ 0.67

ELW4: Edge Line Right (White) @ 0.67

LDW10: Lane Drop (White) @ 0.42

RLW6: Ramp Edge Line Right (White) @ 1.00

SLW6: Solid Lane Line (White) @ 1.00

STW6: Standard Curb 6" (Yellow) @ 2.03

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY4* Factored (STA)	BLW4 Factored (STA)	DCY4 Factored (STA)	ELY4 Factored (STA)	Remarks

REMOVAL OF PAVEMENT Refer to Tabulation 102-5.							110_01 4/5/24
* Not a bid item.							
Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks

REMOVAL OF EXISTING STRUCTURES				110_02 8/15/22
Line No.	Location	Description	Remarks	

110_07A
8/15/22

REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent.
(2) Includes length of End Terminals and End Anchors.

Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)

INDEX OF TABULATIONS				111_25 10/23/24
Line No.	Tabulation	Tabulation Title	Sheet No.	

UTILITIES					111_26 4/15/25
Line No.	Company	Contact	Phone	Email	

112_09
10/15/24

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

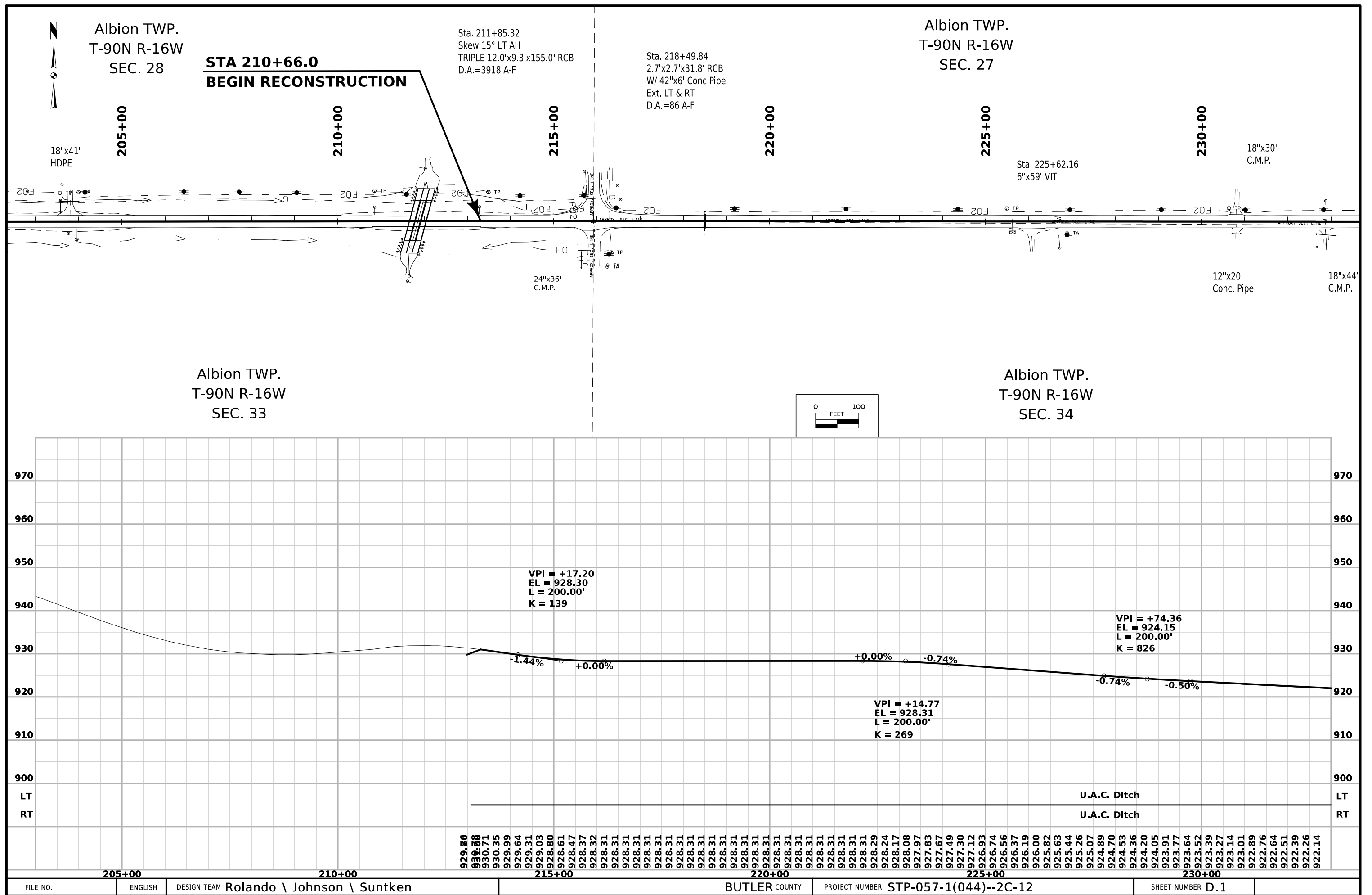
Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY)(3)(4)	HMA (TON)	HMA (TON/STA)	Binder (TONS)	Paved Shoulder (3) (SY)	Shoulder at Grd rail (5)(7)	Reinforced Paved Shoulder(3) (SY)	Special Backfill HMA Alt. (3) (TON)	Special Backfill HMA Alt. (TON/STA)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Const. Alt (3) (STA)	Shoulder Const. Alt HMA (6) (CY)	Shoulder Const. Alt PCC (6) (CY)	Remarks
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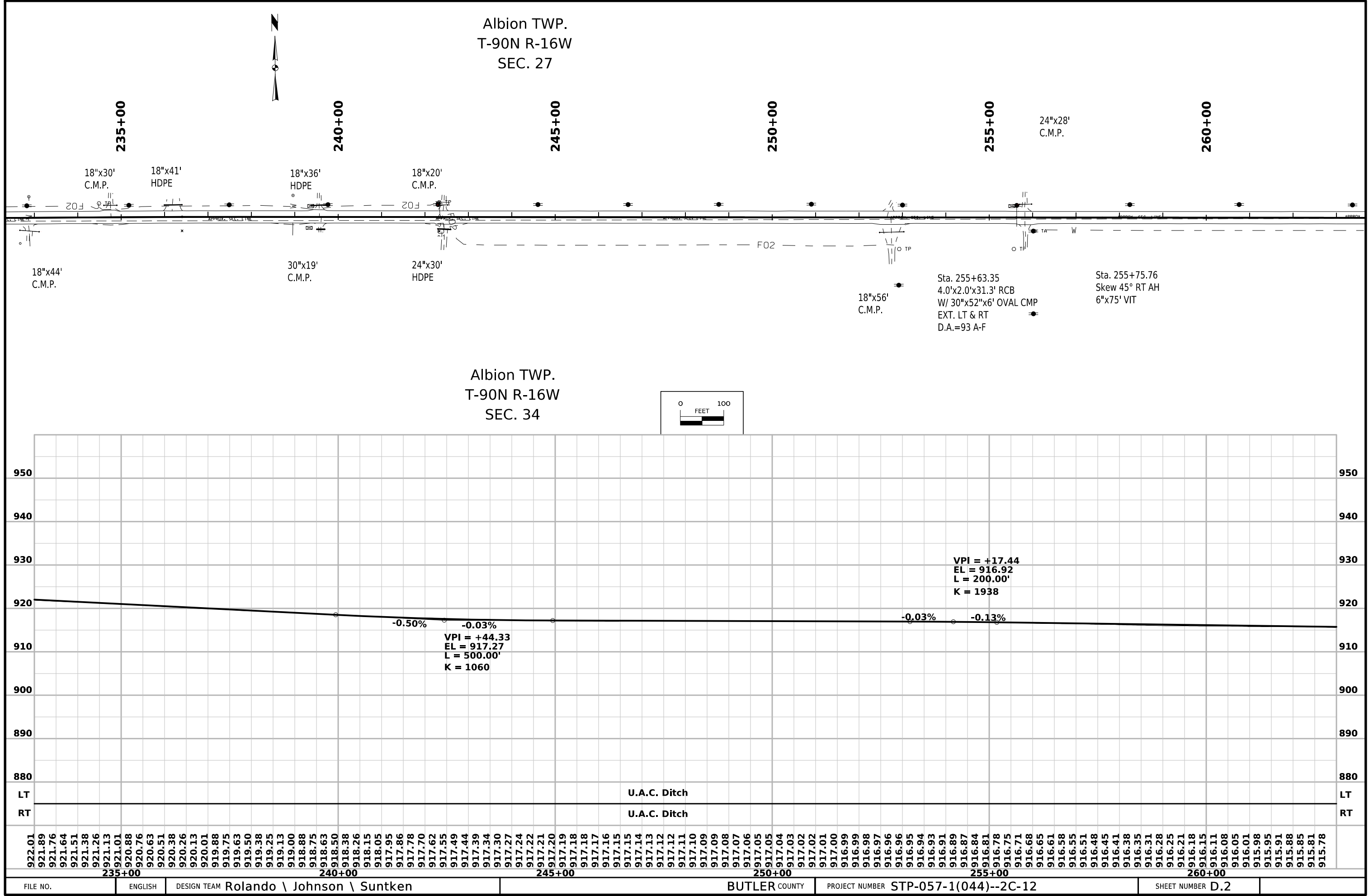
104_09A
5/6/24

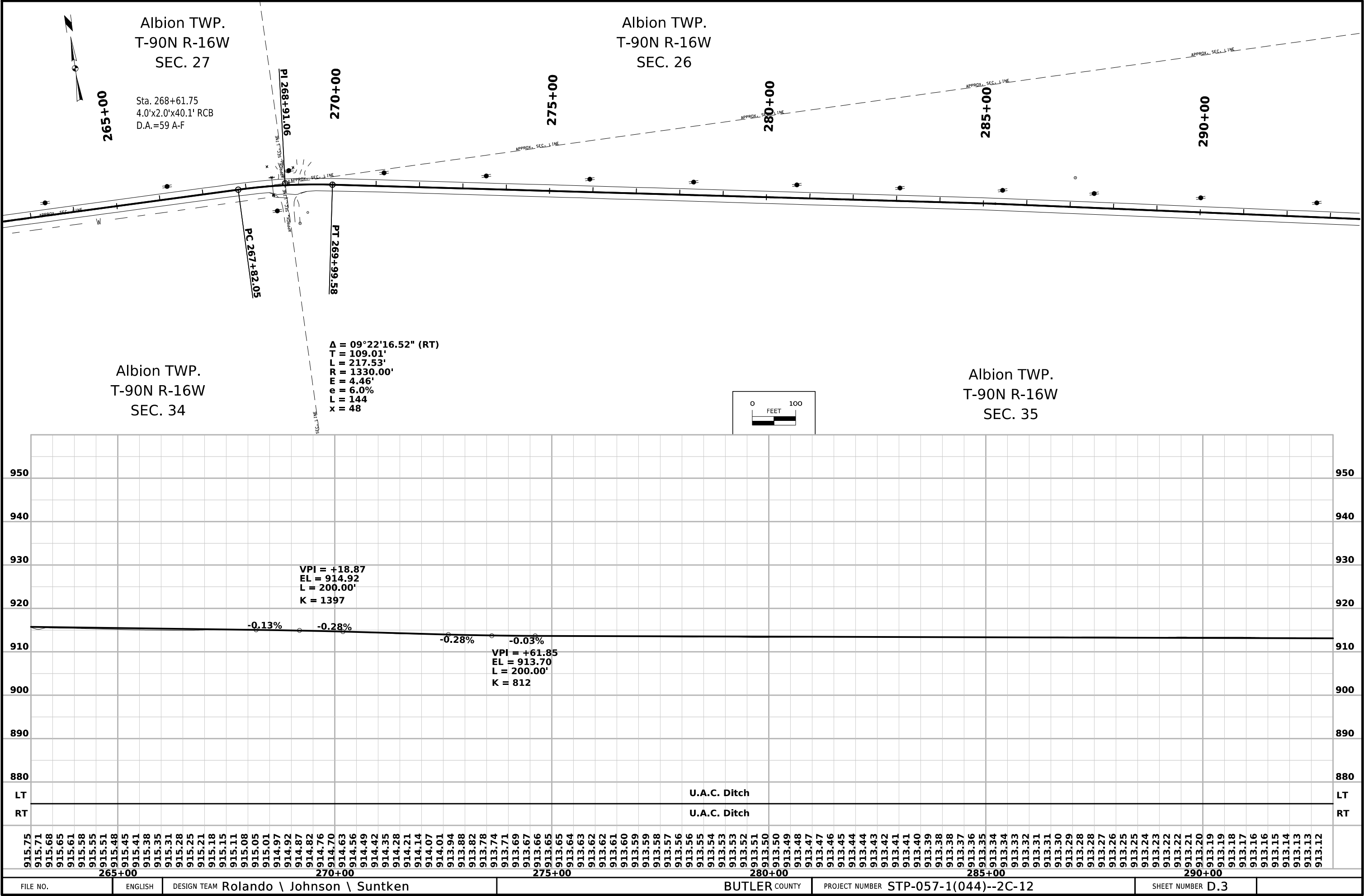
LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks







Albion TWP.
T-90N R-16W
SEC. 35

295+00

300+00

305+00

310+00

315+00

320+00

Sta. 322+53.50, 47' LT
42"x44' CMP

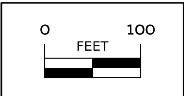
Sta. 322+46.47, 45' LT
24"x59' HDPE

Sta. 322+66.11, 49' RT
24"x60' HDPE

Sta. 322+79.83, 71' RT
24"x38' CMP

Sta. 322+79.70, 73' RT
24"x38' CMP

18"x30'
C.M.P.

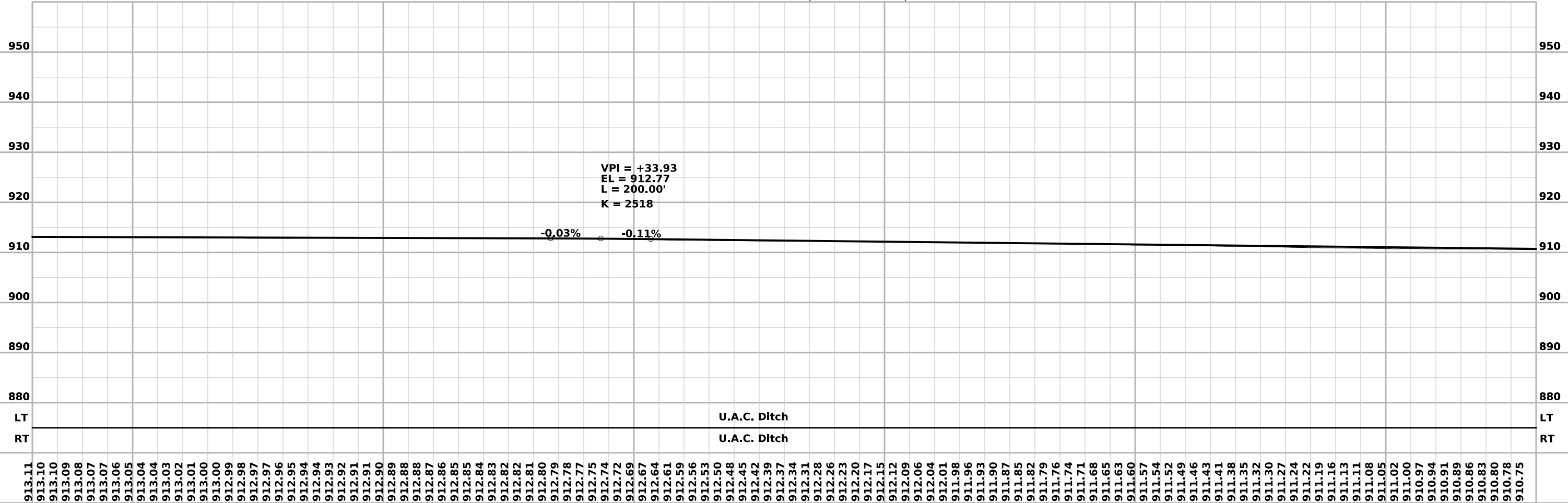


VPI = +33.93
EL = 912.77
L = 200.00'
K = 2518

-0.03% -0.11%

U.A.C. Ditch

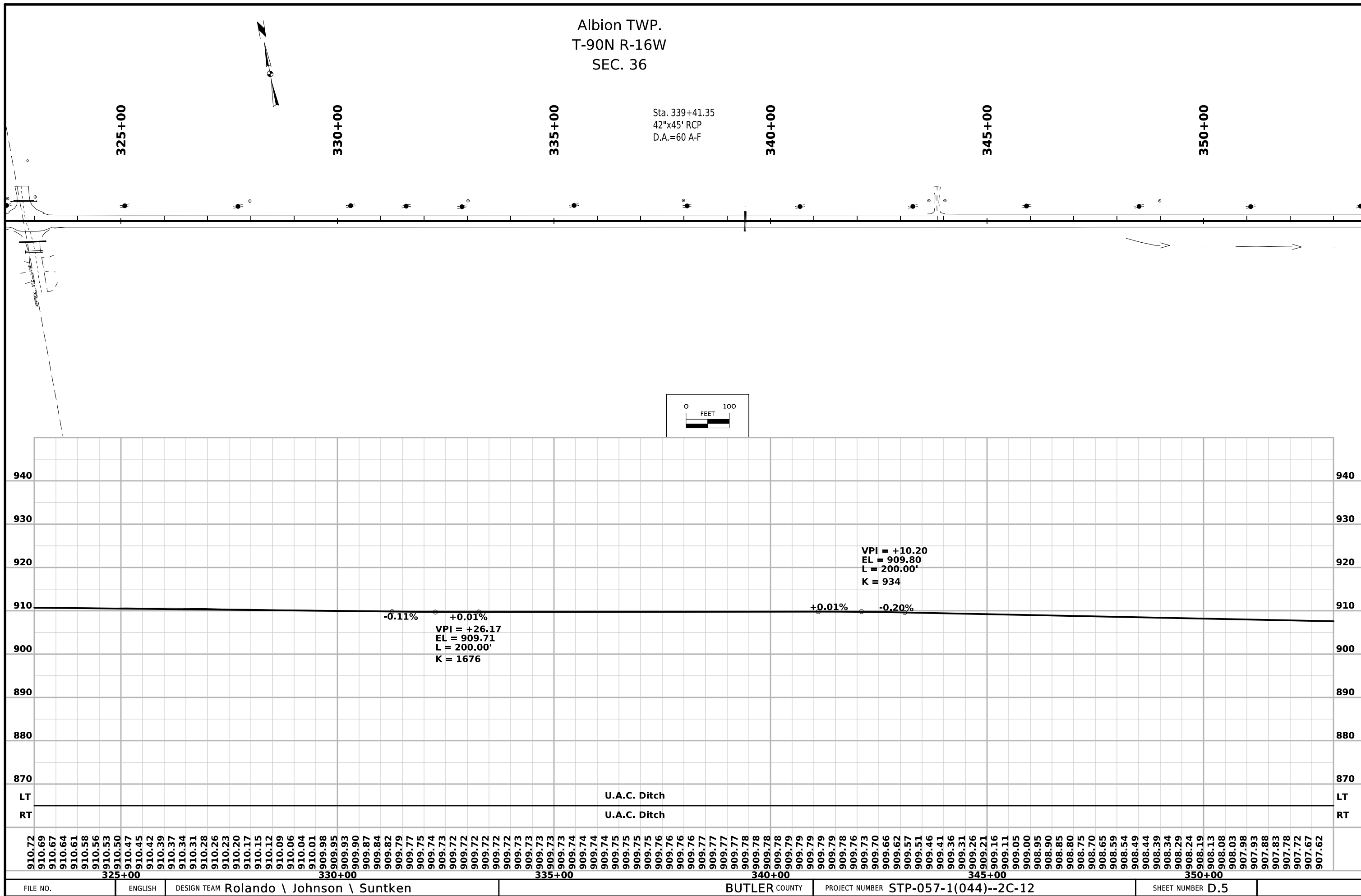
U.A.C. Ditch

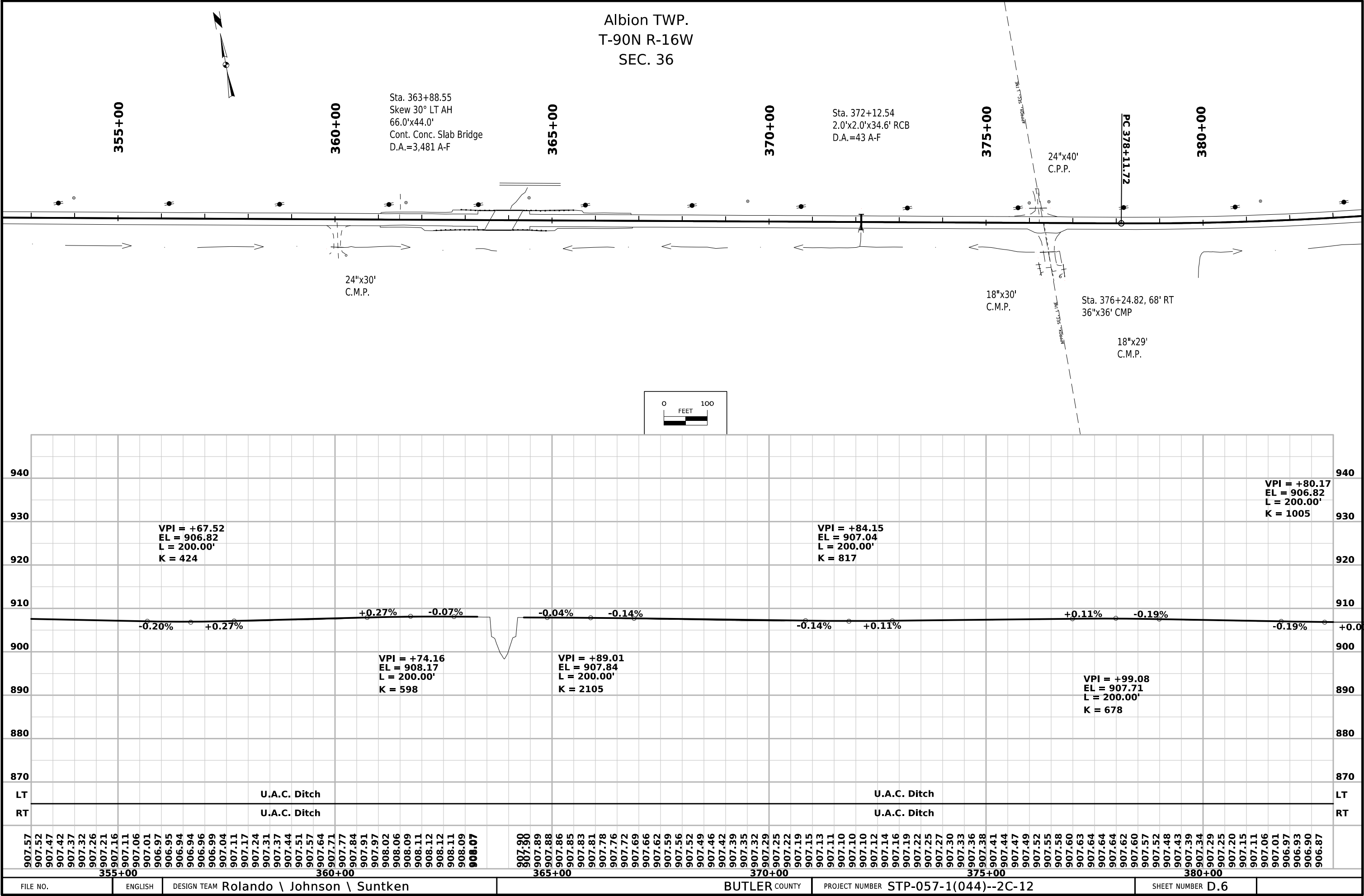


FILE NO.		ENGLISH	DESIGN TEAM	Rolando \ Johnson \ Suntken		BUTLER COUNTY	PROJECT NUMBER	STP-057-1(044)--2C-12		SHEET NUMBER	D.4	
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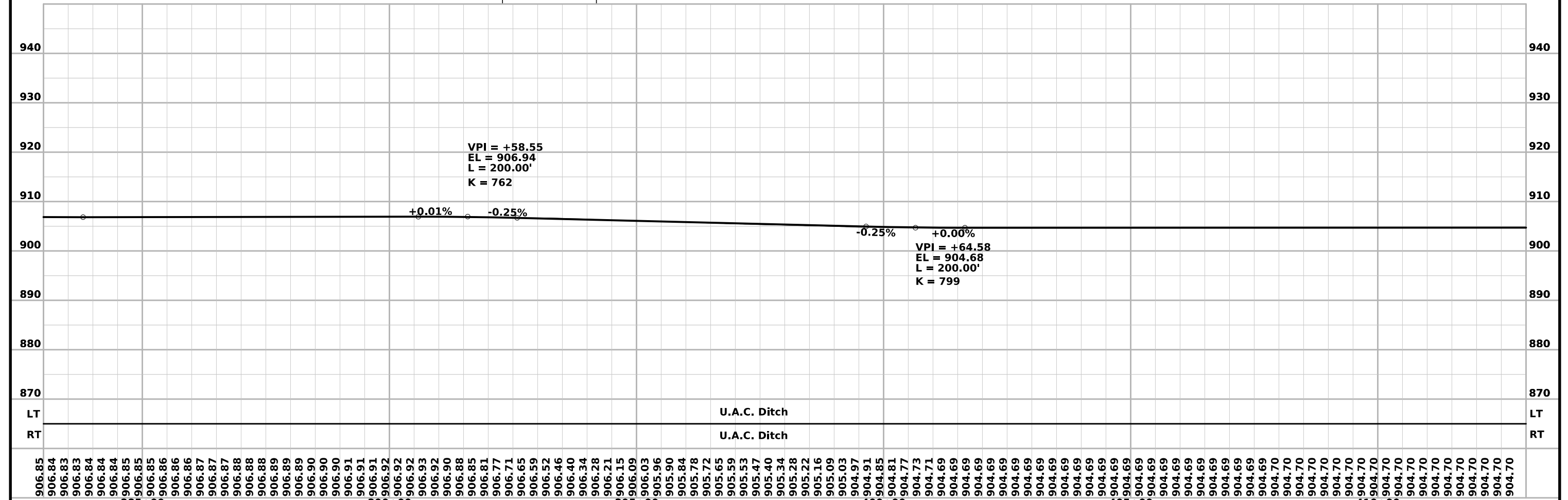
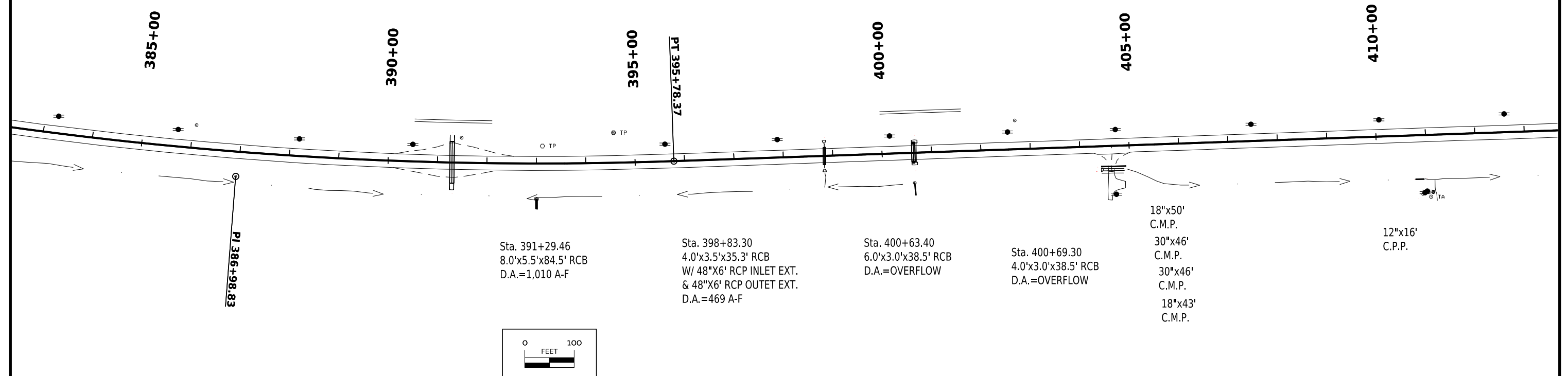
Albion TWP.
T-90N R-16W
SEC. 36

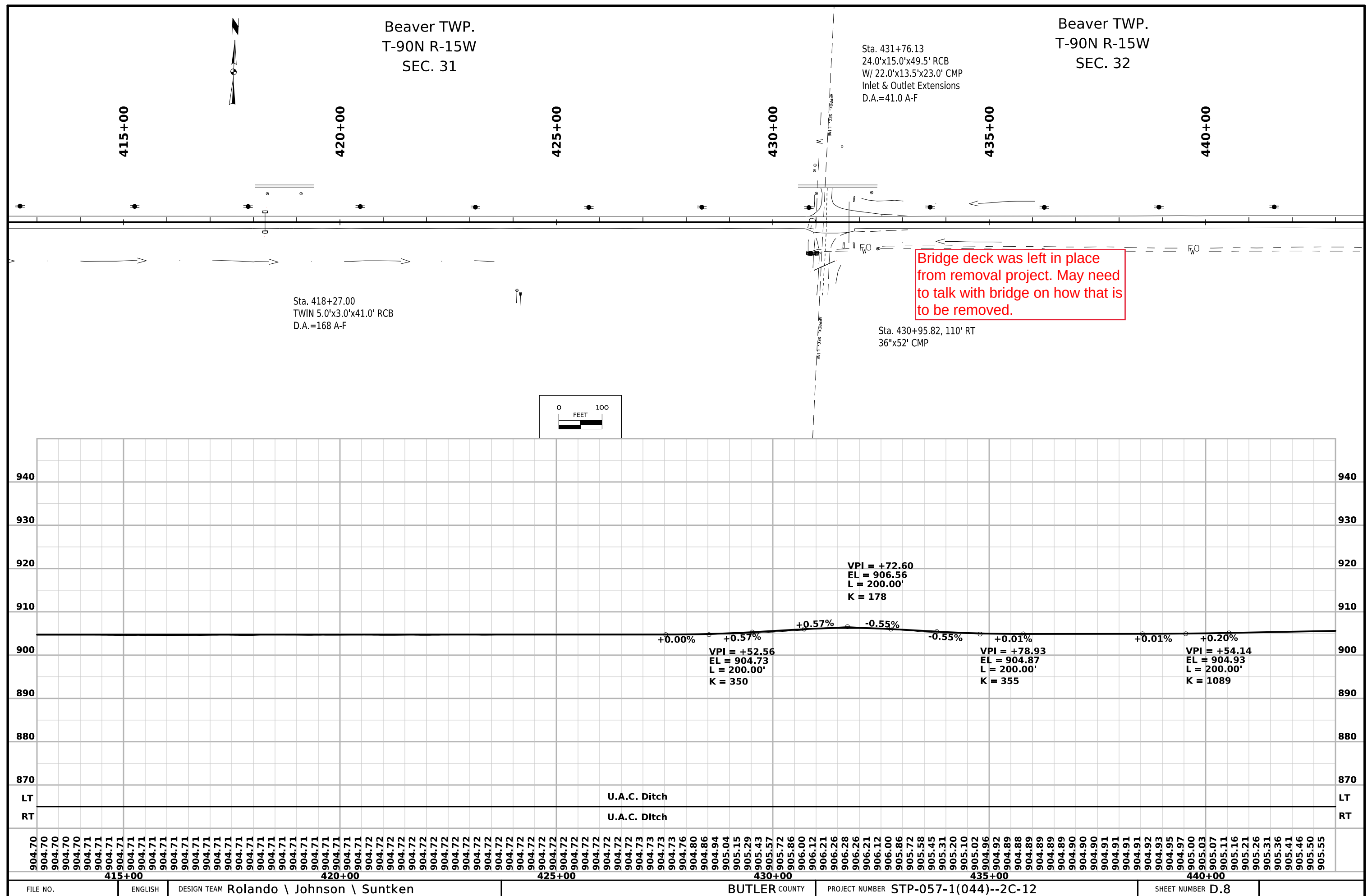
Sta. 339+41.35
42"x45' RCP
D.A.=60 A-F

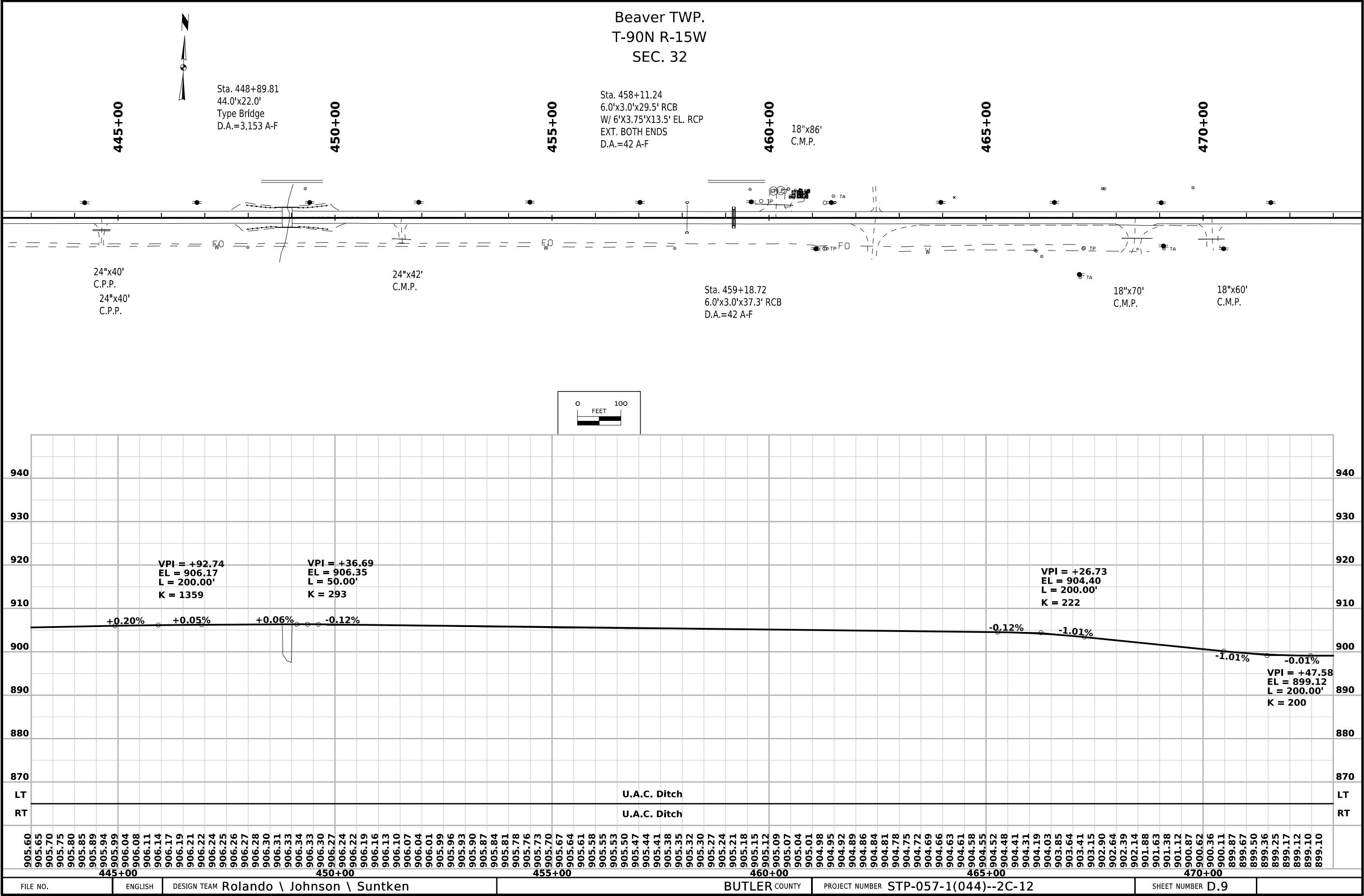


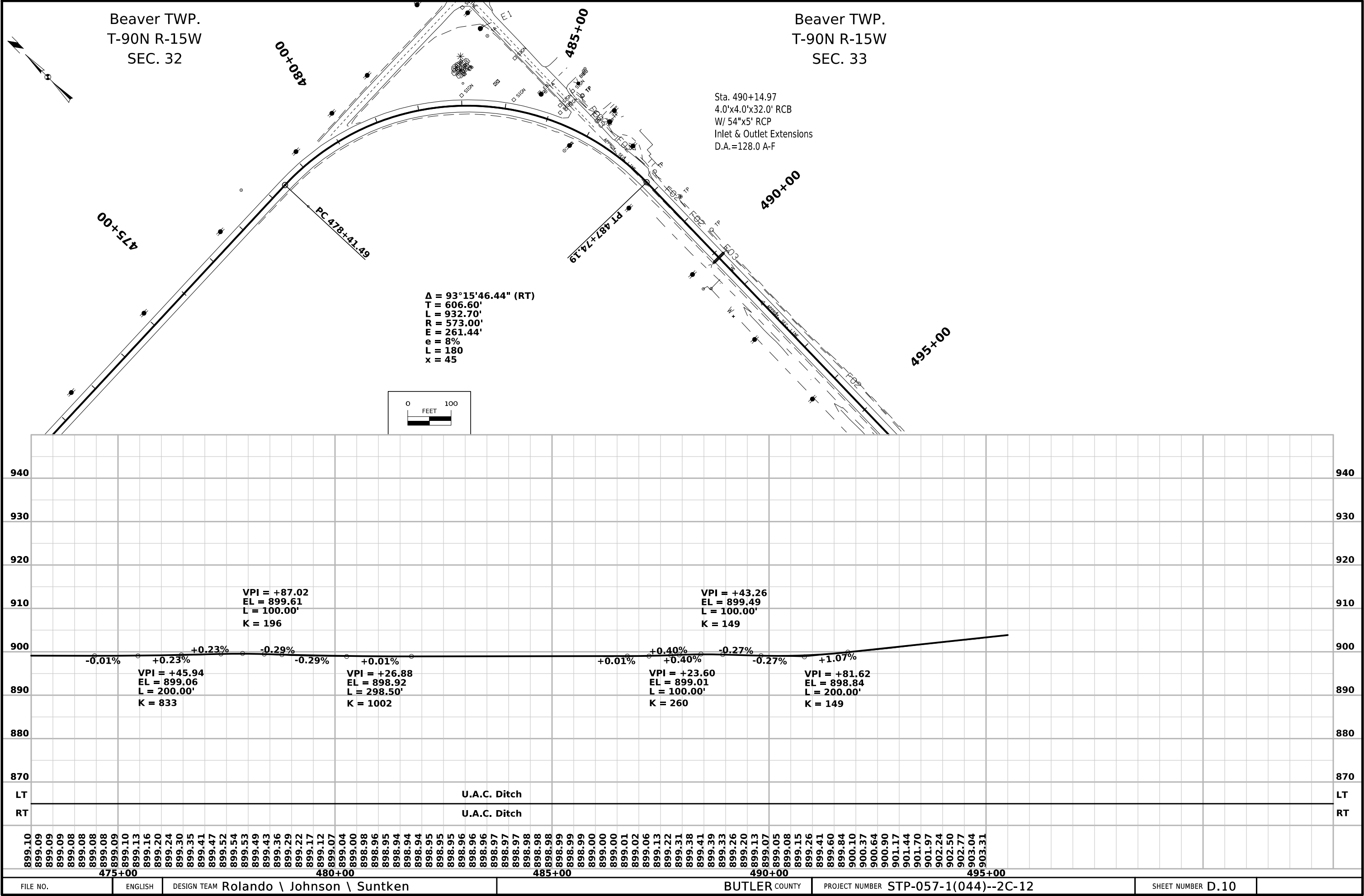


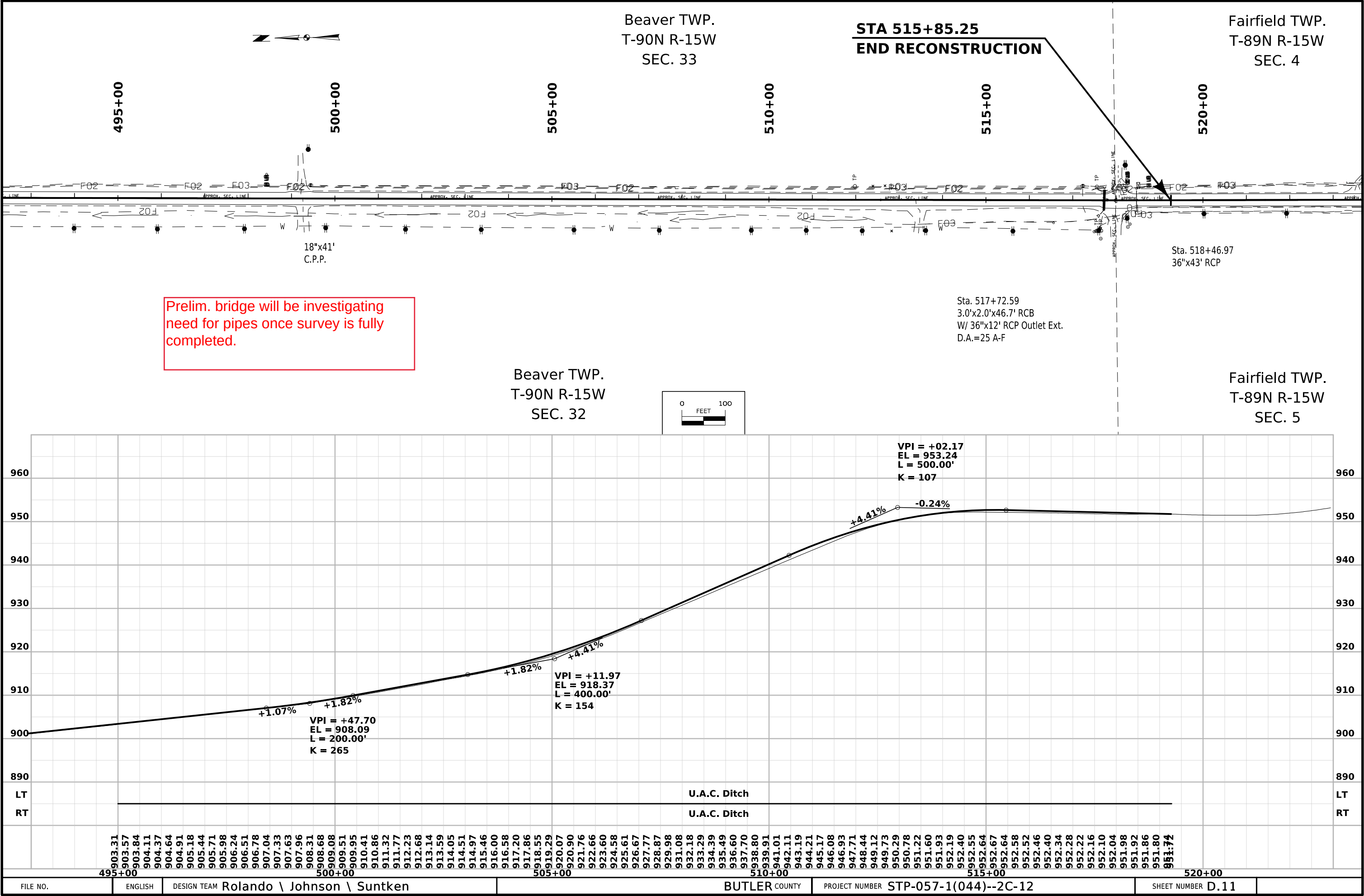
**$\Delta = 12^{\circ}57'14.16''$ (LT)
T = 887.11'
L = 1766.66'
R = 7814.00'
E = 50.19'
e = 2.2%
L = 53
x = 48**











Survey Information

SURVEY INDEX

County: Butler
PIN: 24-12-057-010
Project Number: STP-057-1(044)--2C-12
Location: IA57 from County Rd. T47 to New Hartford
Type of Work: Grade and Replace
Project Directory: 1205701024

Survey Personnel

Jeremy Leemon Survey Project Manager
Chris Ries Assistant Survey Project Manager
Jacob Powers Instrument
Matt Goedken Instrument

Date(s) of Survey

Begin Date 04/11/2024
End Date 04/30/2025

General Information

Full DTM survey along IA 57 from County Road T47 (North) to New Hartford.

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

Project Control

Project control was provided by I.D.O.T. Contact Preliminary Survey Department for questions concerning project control establishment.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 05
(U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

57?

The horizontal alignment for IA Hwy 18 this survey is a retrace of As-built Plans No. 167-F. Survey stationing was equated to the plan PI at Sta. 322+85.3 and carried back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 215+93.7 As-built Plans No. 167-F.
Survey PI Sta. 215+92.11

PI Sta. 236+42.4 As-built Plans No. 167-F.
Survey PI Sta. 236+40.43

PC Sta. 267+97.2 As-built Plans No. 167-F.
Survey PC Sta. 267+97.13

PI Sta. 322+85.3 As-built Plans No. 167-F.
Survey PI Sta. 322+85.30

PC Sta. 378+08.0 As-built Plans No. 167-F.
Survey PC Sta. 378+11.78

PI Sta. 431+17.6 As-built Plans No. 167-F.
Survey PI Sta. 431+24.10

PC Sta. 478+37.8 As-built Plans No. 167-F.
Survey PC Sta. 478+41.56

PI Sta. 517+94.0 As-built Plans No. 167-F.
Survey PI Sta. 517+98.40

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 05 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 05 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 05 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code-Description
12148	8881692.03	15370238.35	989.70	CP Fnd. CCP Berntsen 6ft. L. Rod Mon. w/Cap under Access Cover -20in deep at Butler County GPS Network CP #148 as described
12164	8881786.96	15402068.48	923.27	CP Fnd. CCP Berntsen 6ft. L. Rod Mon. w/Cap under Access Cover flush w/Ground at Butler County GPS Network CP #164 as described
387053	8865972.22	15370115.61	957.21	CP Fnd. CCP Disk set in 12in Dia. Concrete Mon. flush w/Ground at Grundy County GPS Network CP #7053 as described
387054	8865934.27	15385631.73	923.65	CP Fnd. CCP Disk set in 12in Dia. Concrete Mon. -3in deep at Grundy County GPS Network CP #7054 as described
387067	8865902.60	15401816.23	904.45	CP Fnd. CCP Disk set in 12in Dia. Concrete Mon. -1in deep at Grundy County GPS Network CP #7067 as described
120570262	8871415.68	15367959.07	957.83	FENO Fnd. #103_8302 (2019) flush w/Ground located ±2225ft West along IA57 from T47 (Sinclair Ave.) Intersection at 46.1ft North of CL IA57; and 40.2ft West of CL Field Entr.; and 3.3ft S/SE of Yellow NPZ T-Post
120570269	8871299.86	15371863.00	918.97	FENO Fnd. #104_8302 (2019) flush w/Ground near Toe Backslope located ±1675ft East along IA57 from T47 (Sinclair Ave.) Intersection at 58.9ft South of CL IA57; and 22ft West of CL Field Entr.; and 30.3ft S/SW. of W. End CMP; and 10.6ft North of Field Edge
120570276	8871247.46	15375528.92	911.03	FENO SET -4in Dp. located at SE Corner Intersection IA57 and Quail Ave. at 64.8ft South of CL IA57; and 43.8ft East of CL Quail Ave; and 30.8ft NE of Rural Water PVC Shut-off Riser
120570286	8870473.31	15380815.98	910.54	FENO SET -4in Dp. located 141.5ft North along Ridge Ave. from CL IA57 at 23.6ft East of CL Ridge Ave; and 22.3ft South of CL Field Entr.; and 55.5ft North of CL R/R Tracks; and 16.7ft N/NE of E. End CMP
120570297	8869215.45	15386061.17	905.23	FENO SET -3in Dp. located 126ft South along Spring Ave. from CL IA57 at 15ft East of CL Spring Ave; and 15ft South of CL Field Entr.; and 10ft West of S. End CMP
120570307	8869498.75	15391551.44	901.69	FENO SET -5in Dp. located 175ft North along Terrace Ave. from CL IA57 at 28.9ft East of CL Terrace Ave; and 91.3ft North of CL R/R Tracks; and 14.2ft NW. (Perp.) to West Bank of Creek; and 75.3ft NE. of Metal ROW Corner Post (N. R/R with W. Rd.)
120570317	8869388.14	15396692.16	897.37	FENO SET -3in Dp. located ±152ft South along Diagonal Rd. from IA57 West (Ext. from New Hartford) Intersection at 52.9ft NE. (Perp.) from CL IA57; and 147.8ft West of CL Diagonal Rd. (N/S); and 77.3ft NW. of NE. End PVC Outlet; and 28.0ft S/SW of SE. Corner PCC Sign Base (New Hartford); and 2.3ft S/SW of 4x4 Wood Post (Elect. Outlet)
120570323	8866047.79	15396730.67	951.25	FENO SET -6in Dp. located 144.4ft North along IA57 from CL Westbrook St. (West) at 52.7ft West of CL IA57; and 20.9ft East of West ROW Fence; and 96.1ft S/SE of CL PP; and 108.4ft N/NE of Rural Water PVC Shut-off Riser

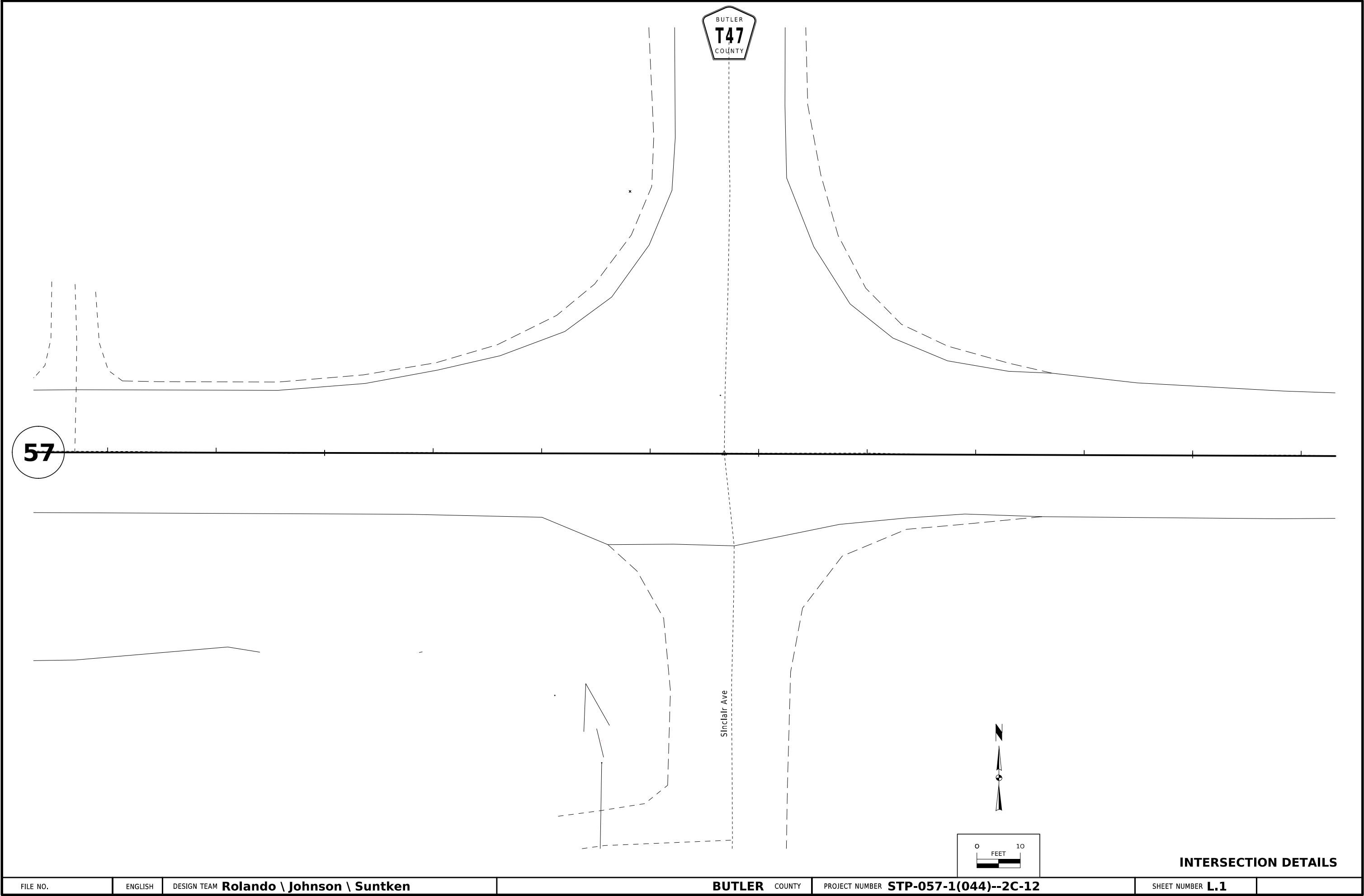
101_16 10/25/24																				
ALIGNMENT COORDINATES																				
Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1.0	IA 57	POB	187+60.81	8871370.738	15367356.99															
2.0	IA 57	PI	215+92.11	8871364.861	15370188.28															
3.0	IA 57	PI	236+40.43	8871357.313	15372236.58															
4.0	IA 57	PC							267+82.05	8871322.664	15375378.02									
5.0	IA 57	PI										267+82.05	8871322.664	15375378.02						
6.0	IA 57	PT													269+99.58	8871302.527	15375594.37			
7.0	IA 57	PI	285+27.67	8871037.094	15377099.23															
8.0	IA 57	PI	322+85.23	8870336.274	15380790.86															
9.0	IA 57	PC							378+11.71	8869311.533	15386221.51									
10.0	IA 57	PI										386+98.83	8869147.038	15387093.23						
11.0	IA 57	PT													395+78.37	8869182.143	15387979.65			
12.0	IA 57	PI	431+24.03	8869322.435	15391522.53															
13.0	IA 57	PC							478+41.49	8869510.585	15396236.24									
14.0	IA 57	PI										484+48.09	8869534.788	15396842.35						
15.0	IA 57	PT													487+74.19	8868928.279	15396832.02			
16.0	IA 57	PI	517+98.33	8865904.584	15396780.2															
17.0	IA 57	POE	540+87.75	8863615.345	15396751.46															

111_01
10/14/22

COORDINATED OPERATIONS

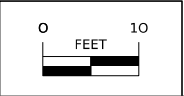
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work



57

Ridge Ave.



INTERSECTION DETAILS

57

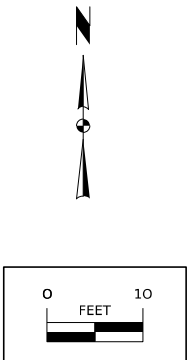
APPROX. SEC. LINE

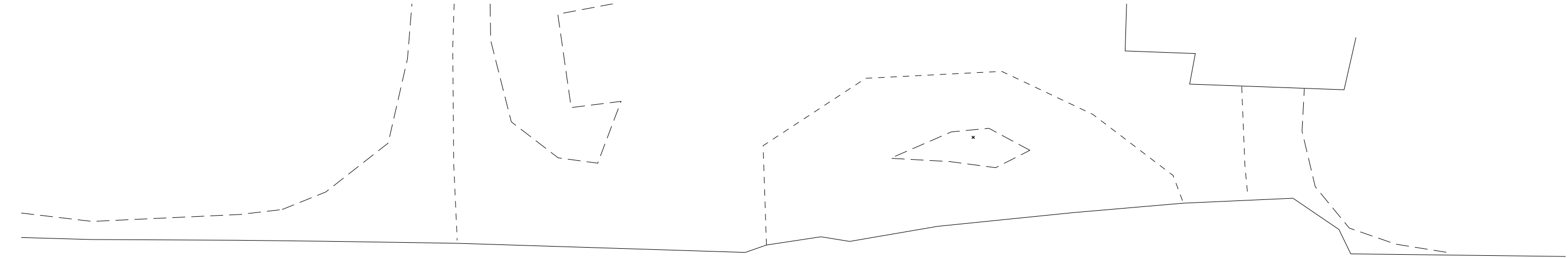
Terrace Ave.



INTERSECTION DETAILS

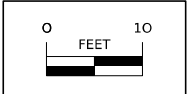
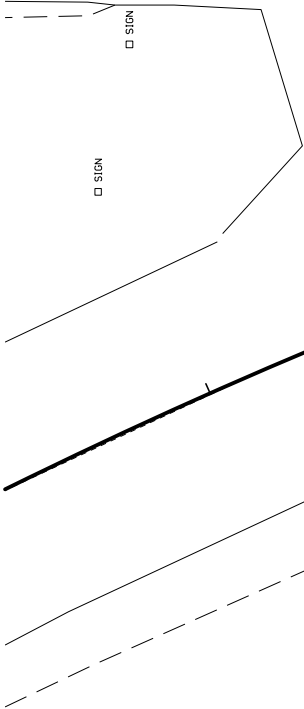
57





APPROX. SEC. L LINE

57



INTERSECTION DETAILS

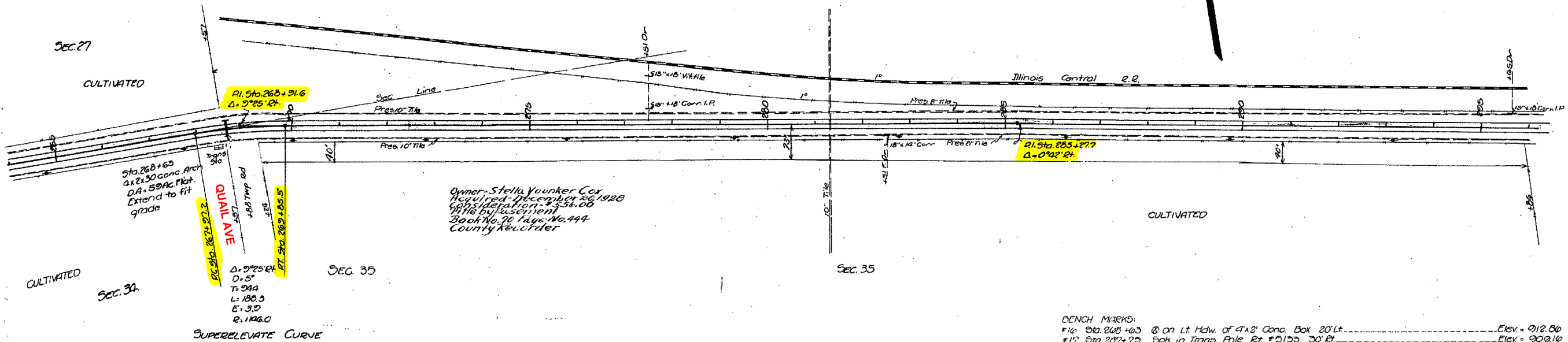
ESTABLISHED WIDTH OF
RIGHT OF WAY _____ FT.

+ Sec. Cur.
Ref. to P.I. Sta. 268+91.6
C.M. C.M.
13.8 13.8
105.1 105.1
+1.7
+9.6
C.M. C.M.
13.8 13.8
105.1 105.1
No Stone found

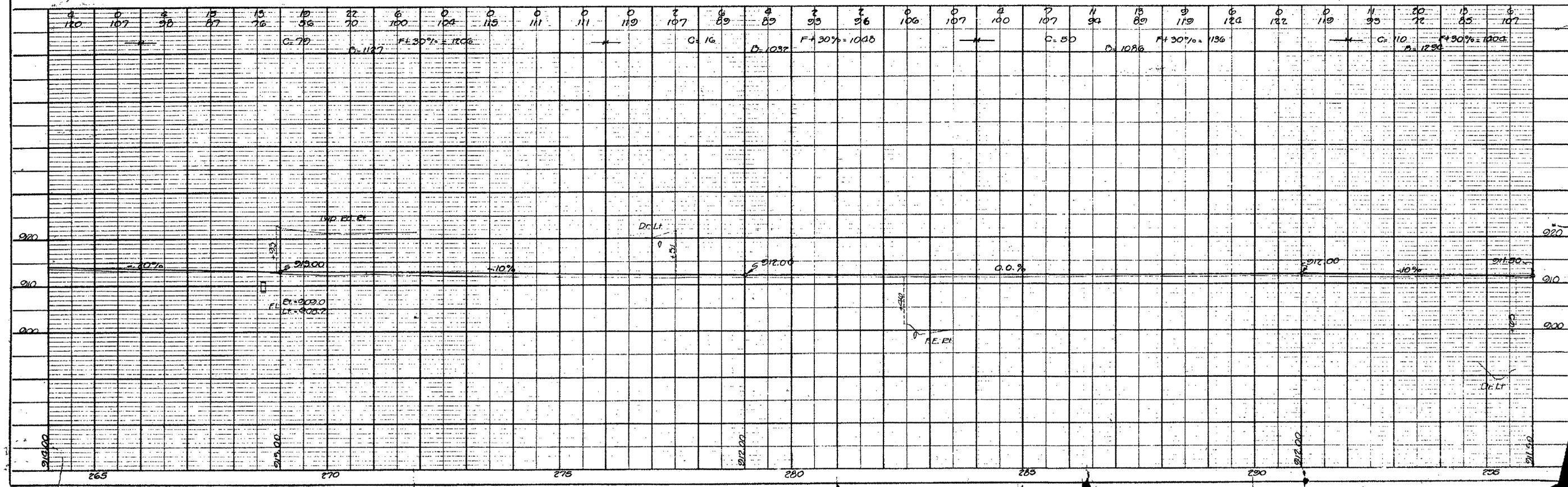
ALBION TWP
T90N. R.16W
SEC. 26

Ref. to P.I. Sta. 285+27.7
C.M. C.M.
49.5 49.5
98.7 98.7
C.M. C.M.
49.5 49.5

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		167 F		12	36
829 PAVING					



BENCH MARKS:
#16 Sta. 268+63 @ on Lt. Hdwy. of 4x8' Conc. Box 20' Lt. Elev. = 912.86
#17 Sta. 287+25 Sph. in Trans. Pole Rt #5155 30' Rt. Elev. = 909.16



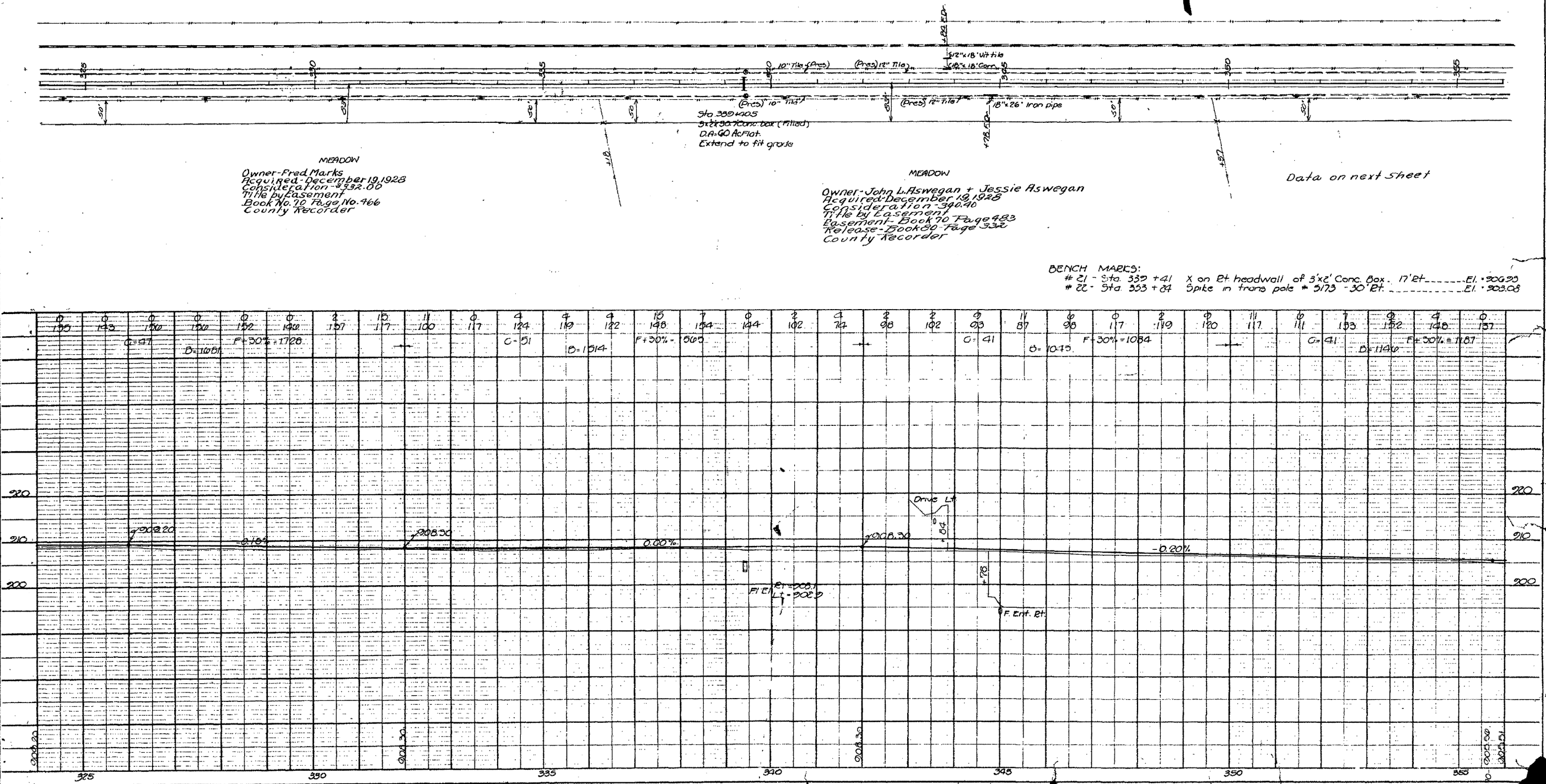
AS-BUILT PLANS / EROSION CONTROL

ESTABLISHED WIDTH OF
RIGHT OF WAY _____ FT.

ALBION TWP
T.20N. R.16W.
SEC. 36.

FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		167 F		16	56

1-20 PAVING



AS-BUILT PLANS / EROSION CONTROL

FILE NO.

ENGLISH

DESIGN TEAM **Rolando \ Johnson \ Suntken**

BUTLER COUNTY

PROJECT NUMBER **STP-057-1(044)--2C-12**

SHEET NUMBER **R.5**

FED. ROAD DIST. No.	STATE	FED. RD PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
		167F		17	56

1929 PAYING

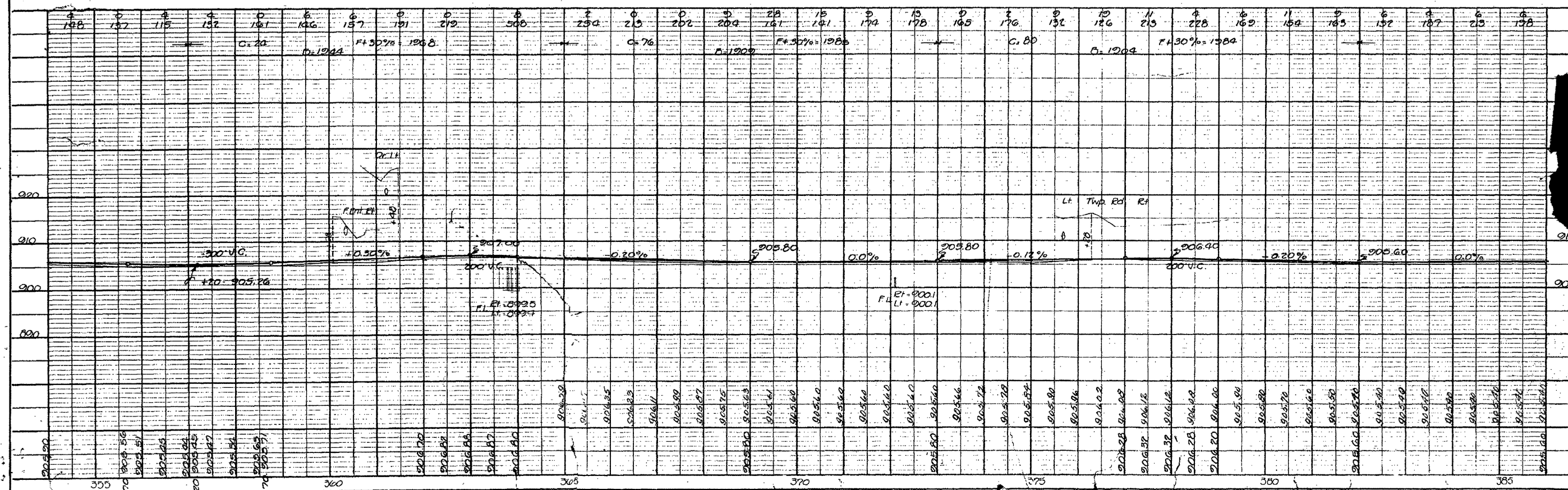
BEAVER TWP.
TOWN R15W0
SEC. 31

$\Delta = 120.58'$
 $D = 44' Lt$
 $T = 888.0$
 $L = 1768.3$
 $E = 50.3$
 $R = 7814.0$

Owners-Maudel Miller & J. A. Foote
Acquired-December 20, 1928
Consideration-\$250.00
Title by Easement
Book No. 76 Page No. 470
County Recorder

BENCH MARKS:
 # 23 Sta 363+?? @ on Rt. Hdwall Conc. Culv. 13' Rt. _____
 # 24 Sta. 372+10 @ on Rt. Hdwall Conc. Culv. 18' Rt. _____
 # 25 Sta 383+75 @ on Conc. Base of Signal Box next to R.R. Tracks 75' Lt. _____

ELEV. = 908.96
 ELEV. = 904.34
 ELEV. = 905.81



AS-BUILT PLANS / EROSION CONTROL

ESTABLISHED WIDTH OF
RIGHT OF WAY _____ FT.

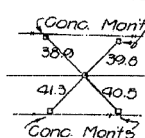
Ref to RT.
Sta. 395+70.5

BEAVER TWP
T90N R15W
SEC 31

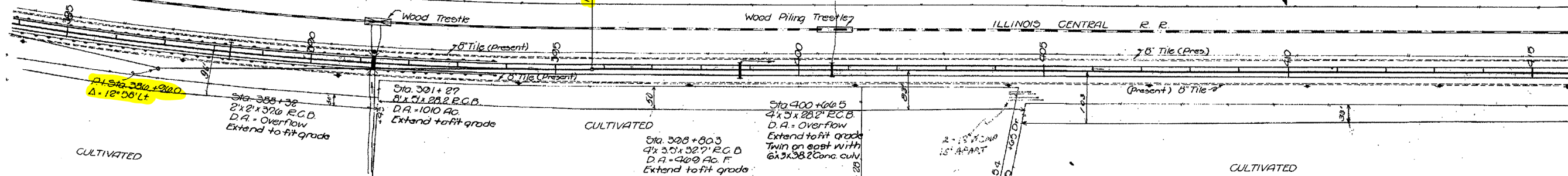
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IL	167F		18	86

ROAD PAVING

Δ = 12° 58'
D = 44' Lt
T = 888.0
L = 1708.3
E = 50.3
R = 784.0



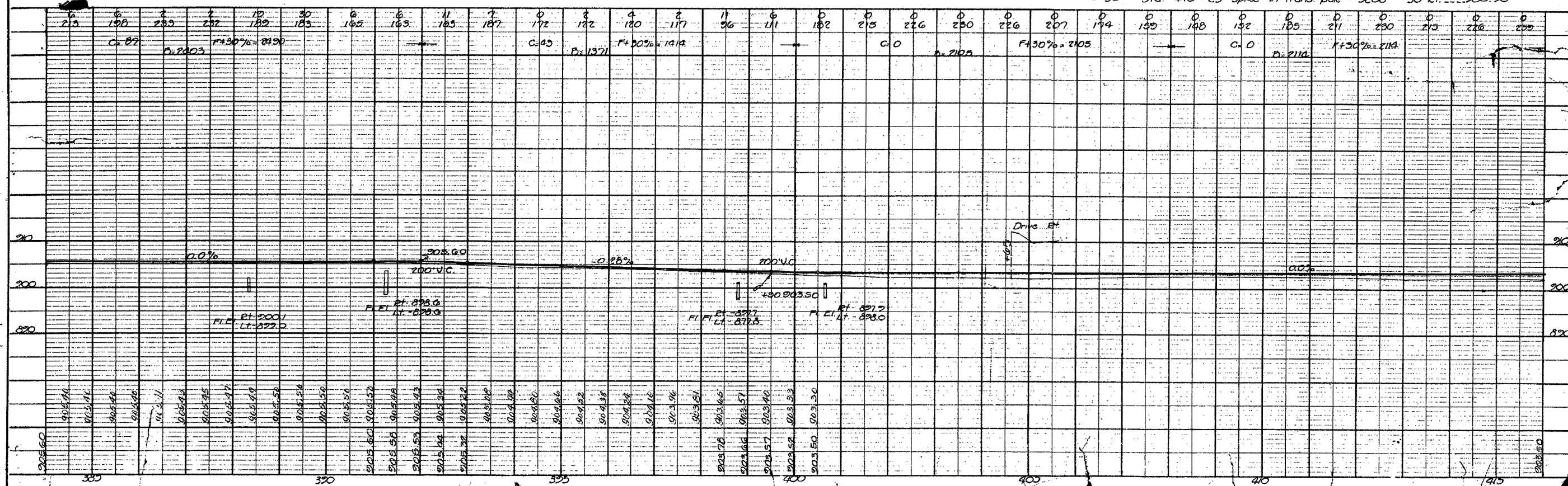
PT 395+70.5



Owner: Jacob J. Bergman
Acquired: December 18, 1928
Consideration: \$394.00
Title by Easement
Book No. 70 Page No. 431
County Recorder

Owner: G. E. Brubaker Jr.
Acquired: April 3, 1929
Consideration: \$244.00
Title by Easement
Book No. 70 Page 438
County Recorder

BENCH MARKS:
26 - Sta. 388+32 X on Rt. headwall Conc. Culv. 18' Et. 905.64
27 - Sta. 391+27 X on Rt. headwall Conc. Culv. 14' Et. 907.48
28 - Sta. 398+81 X on Rt. headwall Conc. Culv. 17' Et. 905.41
29 - Sta. 400+07 X on Rt. headwall Conc. Culv. 15' Et. 905.22
30 - Sta. 410+23 Spikes in trans. pole # 5208 30 Et. 900.90



AS-BUILT PLANS / EROSION CONTROL

FILE NO. _____ ENGLISH _____ DESIGN TEAM **Rolando \ Johnson \ Suntken**

BUTLER COUNTY PROJECT NUMBER **STP-057-1(044)--2C-12**

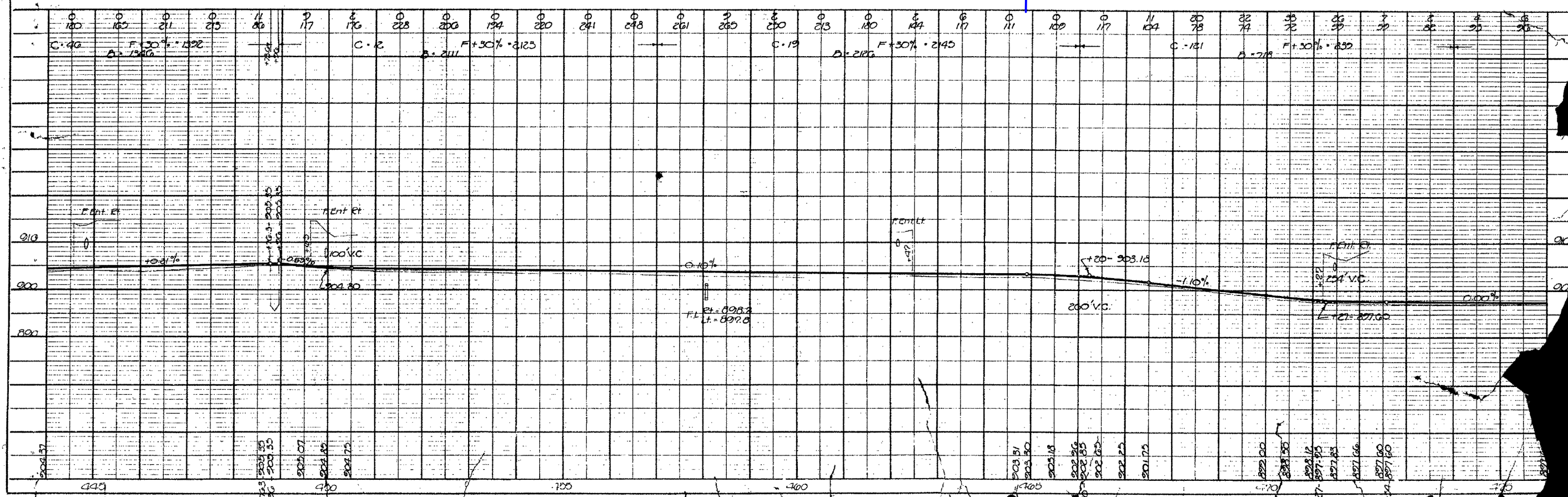
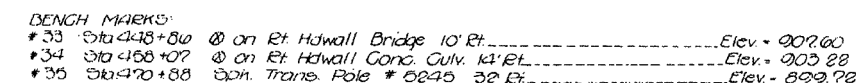
SHEET NUMBER **R.7**

BEAVER TWP
T90N R15W
SEC 32

Ref. to P.O.T.
Sta. 162 + 753

Sph. Tel. P. 82.0 Sph. W. Gt. W. 32.7 Sph. Tel. I 50.7 Dr. Sph.

Sph. Policed Sec. Pole # 32-10



AS-BUILT PLANS / EROSION CONTROL

IA 57 - Prelim

