

PIPE CULVERTS
NHSN-005-2(44)--2R-68

LETTING DATE
1-20-2021

MONROE CO.



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
MONROE COUNTY
PIPE CULVERTS

0.1 mi S of Co Rd T19

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



REVISIONS

TOTAL

10

PROJECT IDENTIFICATION NUMBER

19-68-005-010

PROJECT NUMBER

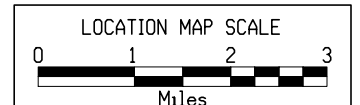
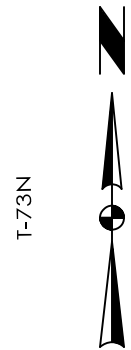
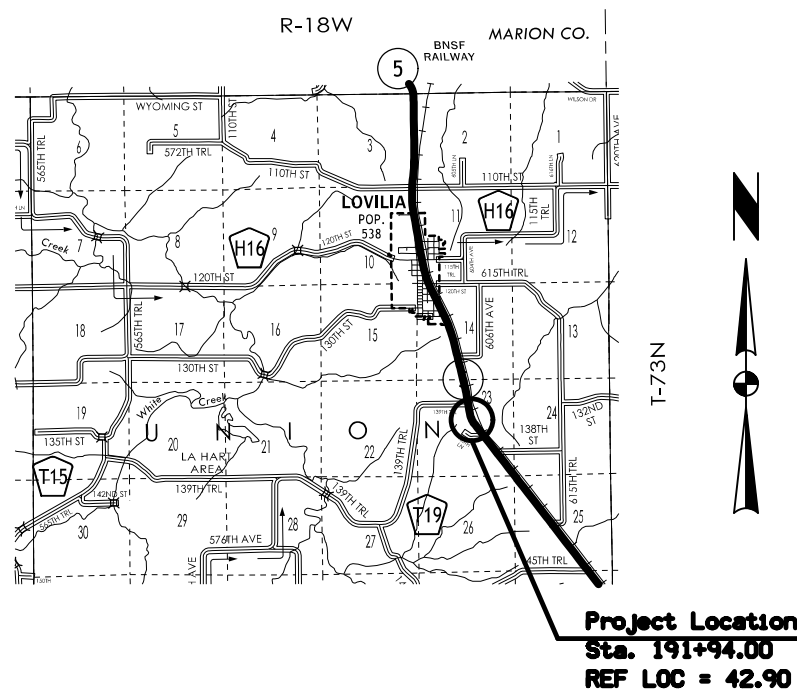
NHSN-005-2(44)--2R-68

R.O.W. PROJECT NUMBER

NHSN-005-2(45)--2R-68

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.1	Location Map Sheet
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 5
G Sheets	Survey Sheets
G.1 - 3	Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
W Sheets	Mainline Cross Sections
W.1 - 3	Mainline Cross Sections
	* Color Plan Sheets



DESIGN DATA RURAL			
2017	AADT	3,330	V.P.D.
20--	AADT	--	V.P.D.
20--	DHV	--	V.P.H.
	TRUCKS	10.39	%
	Total		
	Design ESALs	--	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	X	Primary Signature Block
X	X	X

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 8-12-19

SURVEY SYMBOLS

UTILITY LEGEND

— FO — Windstream Communications (ILEC)
 Joy Matthews
 1101 Anderson Dr. Suite 100
 Little Rock, AR 72212
 WCI.OSP.Permits@Windstream.com
 (501) 748-7654

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		
	Design Color No.	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

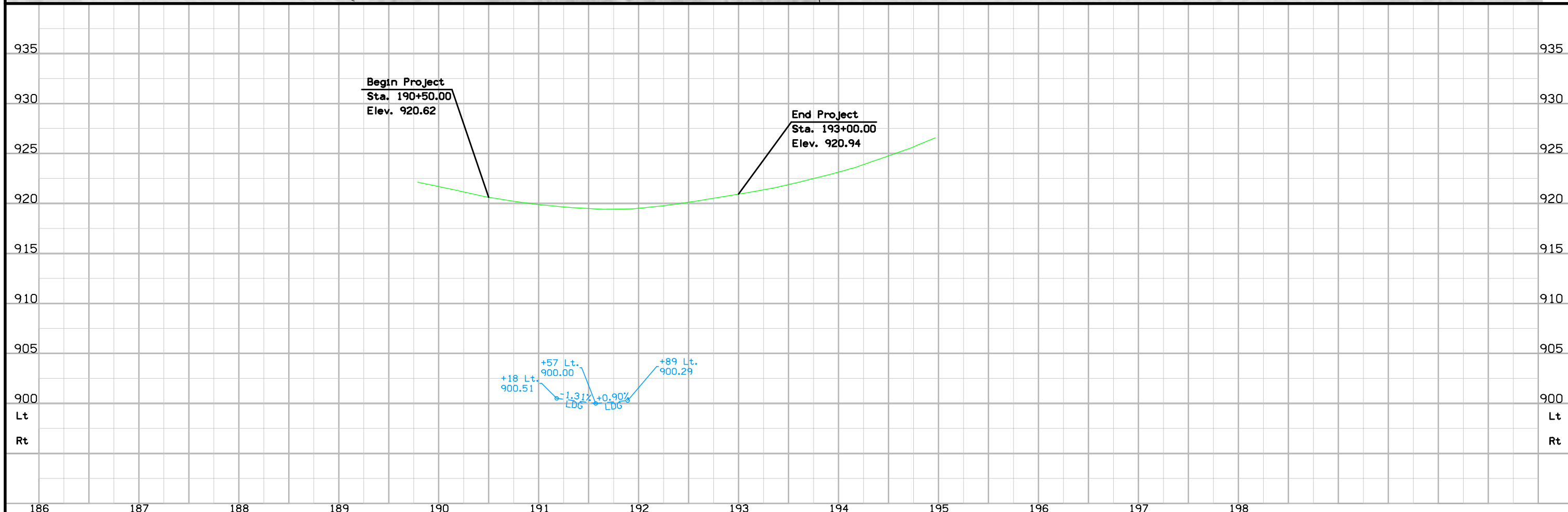
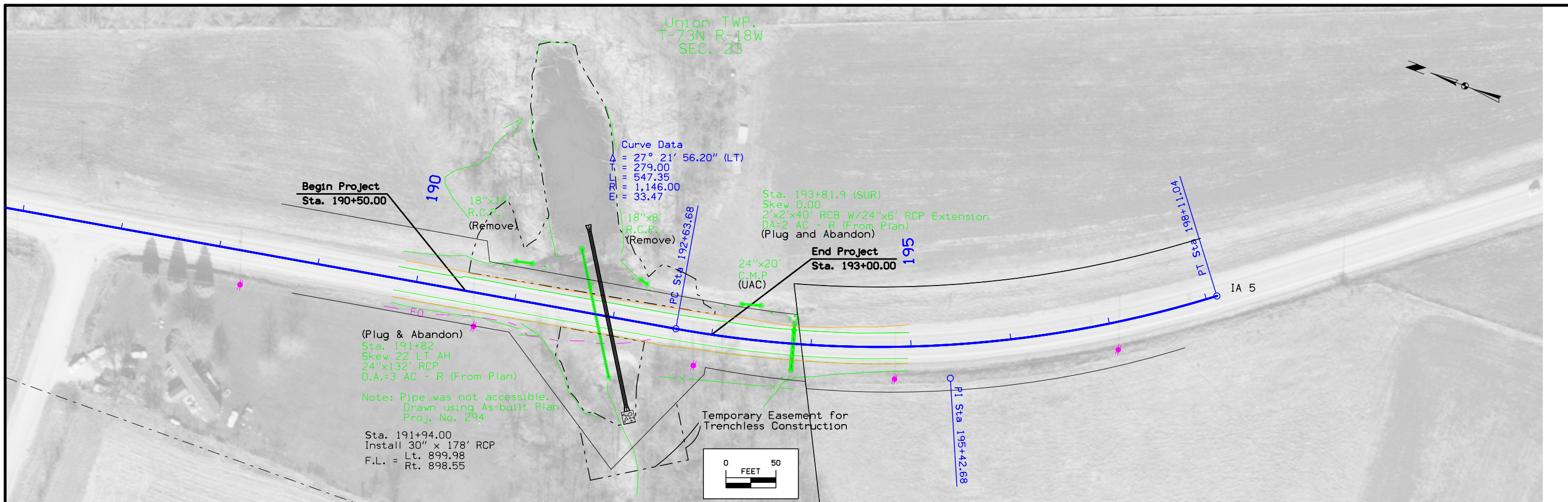
	Reference Point
	Survey Line
	Station
	Section Corner
	Ground Line Intercept
	Saw Cut
	Guardrail
	Trench Drain
	HighTension Cable Guardrail
	Sheet Pile
	Pavement Removal
	Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

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

**PLAN AND PROFILE
 LEGEND AND SYMBOL
 INFORMATION SHEET**

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



Survey Information

County: Monroe
SAP 938
PIN: 19-68-005-010
Project Number: NHSN-005-2(44)--2R-68
Location: 0.1 mi S of Co Rd T19
Type of Work: Pipe Culverts
Project Directory: 6800501019

Party Personnel

Nels Sutherland- Party Chief
 Myron Fox- Assistant Survey Party Chief

Date(s) of Survey

Begin Date 10/29/2018
 End Date 12/05/2018

General Information

Measurement units for this survey are US survey feet. This survey is for proposed culvert replacement north of Albia on IA 5. Project datum and control information is provided by Design Survey Office. This project is a full field survey. This survey request was for the IA 5 corridor only.

Vertical Control

Vertical datum for this survey is NAVD88 (Computed using Geoid: g2012bu3). Benchmarks were placed throughout the project using post processed static observations relative to laRTN Base Network. A minimum of 6hrs of data was simultaneously collected on each of these primary control points.

Points Checked for Vertical tolerance:

Monroe County Control Pt. 9666 Published Elevation is 937.334'.

Static Survey Elevation is 937.60'.

Monroe County Control Pt. 6029 Published Elevation is 947.833'.

Static Survey Elevation is 947.96'.

Horizontal Control

The project coordinate system for this survey is laRCS Zone 12 (U.S. Survey Feet). This survey control is relative to laRTN reference stations. laRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00.

Monroe County Control Pt. 6029 was checked for horizontal tolerance. The horizontal difference is 0.12 ft.

Monroe County Control Pt. 9666 was checked for horizontal tolerance. The horizontal difference is 0.08 ft.

Point	Northing	Easting	Elevation	Feature Code-Description
	Name Coordinate	Coordinate		
6029	6269847.13	22739999.64	947.96	CP MONROE COUNTY MONUMENT #6029 3-1/4" ALUM DISK IN 12' DIA CONCRETE MONUMENT
9666	6281532.84	22732244.4	937.6	CP HARN MONUMENT #9666 USC&GS BRONZE DISK IN 12" DIA CON MONUMENT FLUSH
1	6273082.7	22734903.88	932.04	FENO 1 SET FENO MONUMENT 25' S OF INTERSECTION T19 AND HWY5 THEN 40' EAST OF CENTERLINE HWY5
2	6272529.79	22735016.04	922.04	CP SET 5/8TH REBAR 4" BELOW SURFACE 69' N OF FIELD ENT 53' EAST OF CENTERLINE HWY5

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans Project No.294. Survey stationing was equated to the plan PT at STA 180+28.90 and ran ahead without equation throughout the survey.

Survey stationing relates to as-built plan stationing as follows:

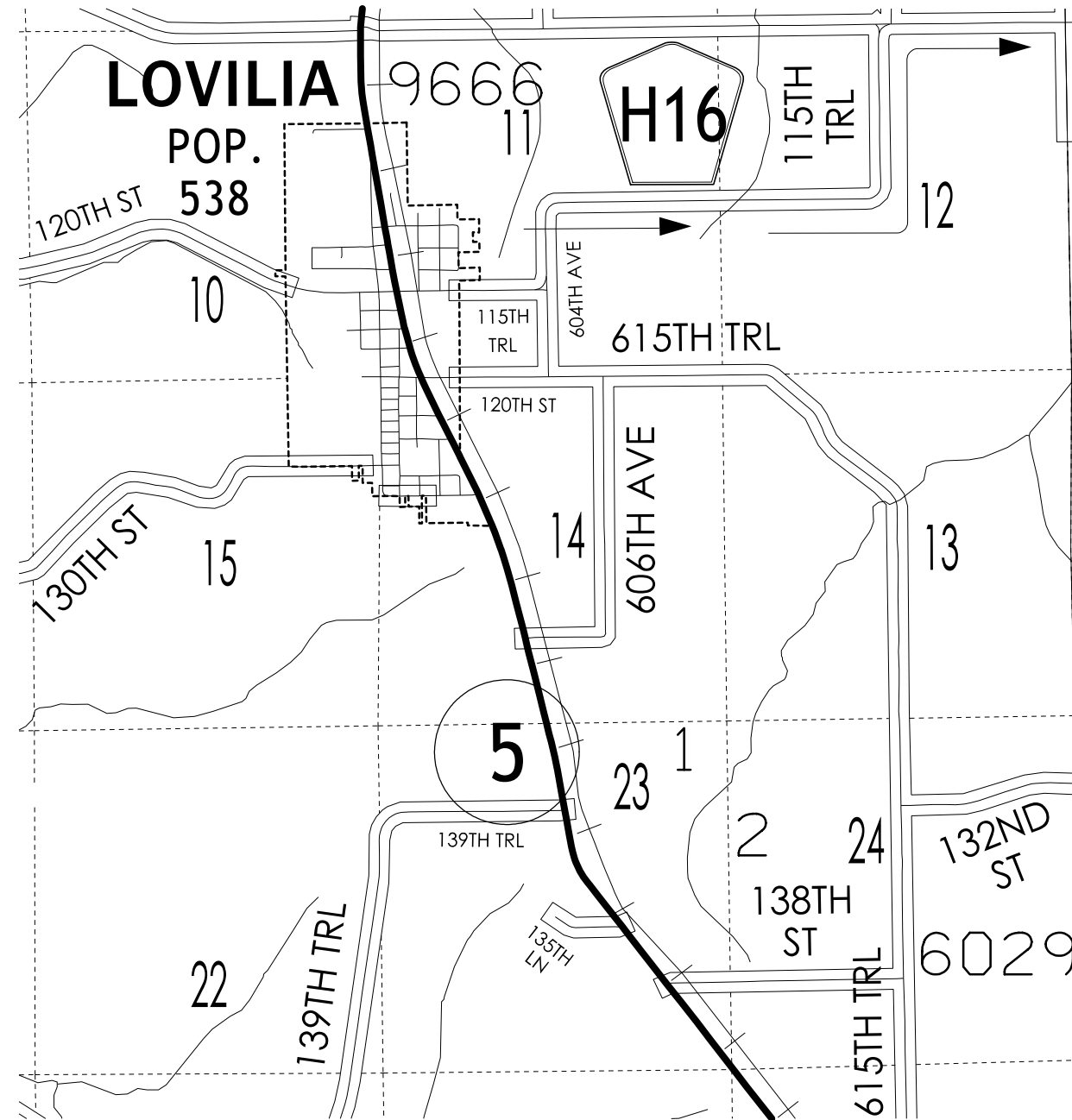
PT Sta. 180+28.90 As-built Plans Project No. 294
 Survey PT Sta. 180+28.90

PC Sta. 192+63.90 As-built Plans Project No. 294
 Survey PC Sta. 192+63.68

PT Sta. 198+12.60 As-built Plans Project No. 294
 Survey PT Sta. 198+11.04

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) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 12

Coordinate listing from next sheet will be used with 1aRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 12

Point Name	Northing Coordinate	Easting Coordinate	Elevation	Feature Code-Description		
6029	6269847.13	22739999.64	947.96	CP MONROE COUNTY MONUMENT #6029 3-1/4" ALUM DISK IN 12' DIA CONCRETE MONUMENT		
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NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



Union TWP.
T-73N R-18W
SEC. 23

①
RYAN WEST

TEMPORARY EASEMENT
TO SHAPE

190+65
±265'

191+50
±270'

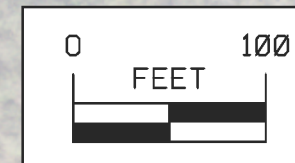
192+05
±100'

193+20
±32'±EX R/W

190+60
±100'

190+30
±53'±EX R/W

RAY D ANDERSON



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: ATINKEN / JLARSON	
ROW #: NHSN-005-2(45)-2R-68	
Plan Date: 12/16/19	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

108-23A 08-01-08
TRAFFIC CONTROL PLAN
IA 5 traffic shall be maintained at all times.

111-01 04-17-12								
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.								
<table border="1" style="width: 100%;"> <tr> <th style="width: 50%;">Project</th> <th style="width: 50%;">Type of Work</th> </tr> <tr> <td>None Provided</td> <td></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Project	Type of Work	None Provided					
Project	Type of Work							
None Provided								

511 TRAVEL RESTRICTIONS												108-25 10-21-14
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			No travel restriction expected.									

IA 5 Preliminary

