

IOWA
DEPARTMENT OF TRANSPORTATION
Highway Division

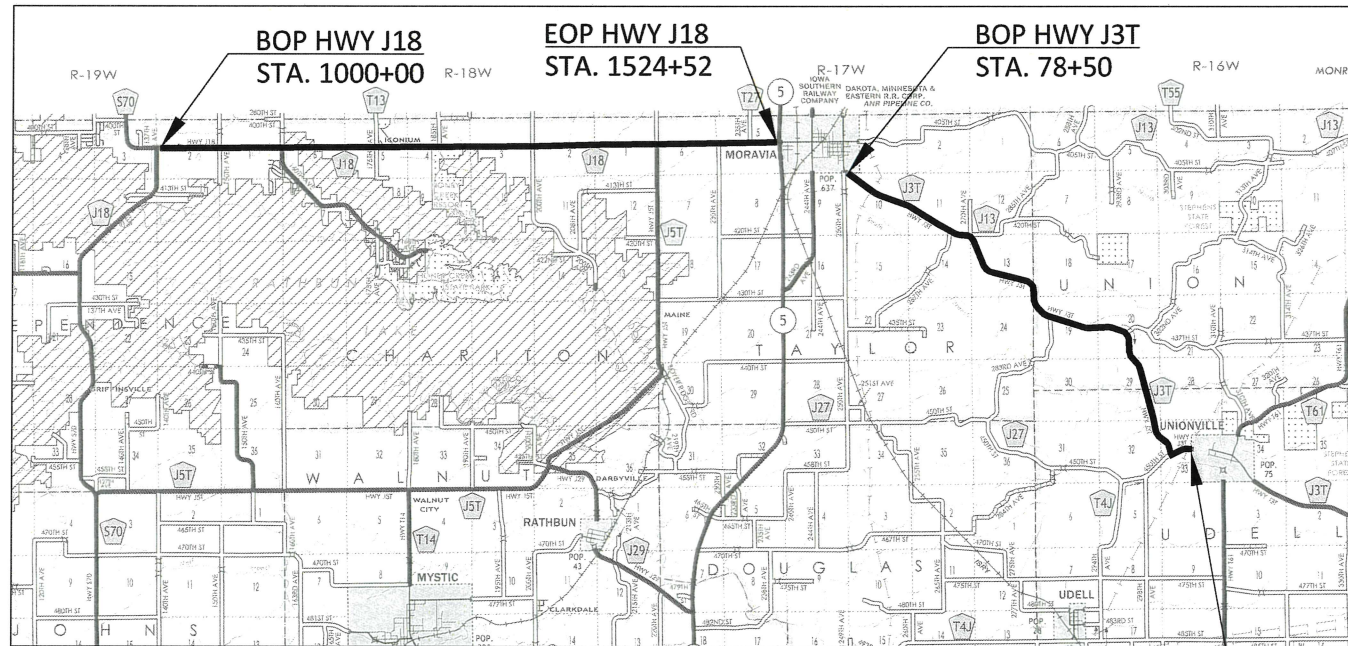
PLANS OF PROPOSED IMPROVEMENTS ON THE
FARM-TO-MARKET SYSTEM
APPANOOSE COUNTY

PROJECT NO. FM-C004(133)--55-04

CULVERT REPAIR
HWY J3T & HWY J18
PROJECT LOCATION

On HWY J3T, from ECL Moravia E 8 miles to WCL of Unionville
and On HWY J18, from HWY S70 E 10 miles to State HWY 5

Refer to the Proposal Form for list of applicable specifications.



LOCATION MAP

EOP HWY J3T
STA. 516+25

UTILITIES

ANR PIPELINE COMPANY
Phone # 319-498-4200

ALLIANT ENERGY
Phone # 1-800-255-4268

BUCKEYE PARTNERS, LP
Phone # 610-940-4475

CHARITON VALLEY ELECTRIC COOP
Phone # 610-749-2531

CITIZENS MUTUAL TELEPHONE
Phone # 641-664-2074

FARMERS MUTUAL TELEPHONE
Phone # 641-642-3249

CITY OF MORAVIA
Phone # 515-724-9811

RATHBUN REGIONAL WATER
Phone # 641-647-1037

WINDSTREAM COMMUNICATIONS
Phone # 1-800-289-1901

AUREON NETWORK SERVICES
Phone # 515-830-0445

MEDIACOM CABLE
Phone # 319-759-3786

PROJECT NUMBER: FM-C004(133)--55-04
TOTAL SHEETS: 04

INDEX OF SHEETS

NO.	DESCRIPTION
A.01	TITLE SHEET
C.01-C.03	ESTIMATED QUANTITIES AND GENERAL INFORMATION

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

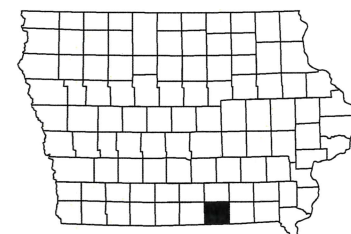
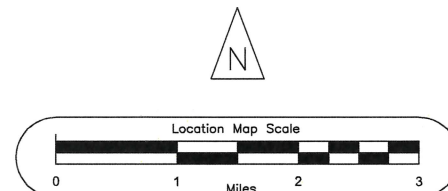
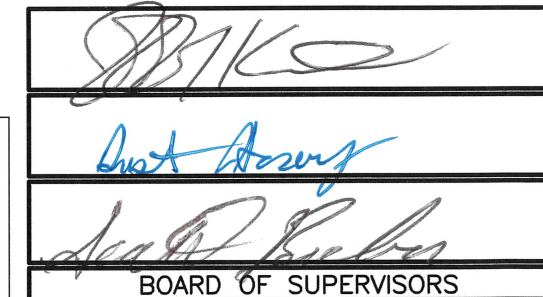
Number	Date	Title
TC-1	10-15-19	Work Not Affecting Traffic
TC-202	04-18-23	Work Within 15 ft of Traveled Way
TC-211	10-15-19	Lane Closure on Low Volume Roadway
TC-212	04-18-23	Spot Location Lane Closure with Flaggers

PROJECT TRAFFIC CONTROL

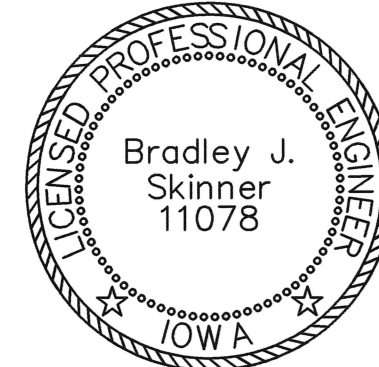
THROUGH TRAFFIC WILL BE MAINTAINED DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08, OF THE CURRENT STANDARD SPECIFICATIONS PLUS CURRENT SUPPLEMENTAL SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.

MILEAGE SUMMARY

Div.	Location	Lin. Ft.	Miles
1	Sta 78+50 to 516+25	43,775	8.29
	Sta 1000+00 to 1524+52	52,452	9.93
	Total	96,228	18.22



2022 TRAFFIC COUNT = HWY J3T 790 VPD
HWY J18 1,900 VPD



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

Signature: Bradley J. Skinner P.E. & L.S. (11078) Date: 7/29/26

My license renewal date is 12-31-26
Pages or sheets covered by this seal: A.01-C.03
4 TOTAL SHEETS

ESTIMATED PROJECT QUANTITIES				
ITEM NO.	ITEM CODE	DESCRIPTION	UNIT	TOTAL
		BASE ITEMS		
1	2528-8445110	TRAFFIC CONTROL	LS	1.00
2	2528-8445113	FLAGGERS	EA	Per Proposal
3	2533-4980005	MOBILIZATION	LS	1.00
		ALTERNATE AA OPTION 1		
4	2499-4000036	SLIPLINING EXISTING CULVERTS, LESS THAN OR EQUAL TO 36 IN. DIA. OR HEIGHT	LF	1,779.20
		ALTERNATE AA OPTION 2		
5	2549-0041033	CURED-IN-PLACE CULVERT LINING	LF	1,779.20

GENERAL NOTES	
1. Aprons to be removed shall become property of the contractor.	
2. The Contractor shall visit all sites to ensure that they are familiar with the existing conditions.	
3. Site preparation (minor clearing, earthwork, etc.) which is necessary to facilitate the installation of the liner, will be incidental to the respective lining bid item. Appanoose County will locate and mark sites prior to construction.	

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2528-8445110	SEE PROJECT TRAFFIC CONTROL ON PAGE A.01.
4	2499-4000036	SEE GENERAL NOTES ON PAGE C.01 AND THE TABULATION OF STRUCTURES TO BE LINED (SOLID WALL HDPE) ON SHEET C.02. PRE-REHABILITATION CLEANING AND INSPECTION SHALL BE CONSIDERED INCEDENTAL. EXISTING APRONS SHALL BE REMOVED. PLEASE REFER TO DEVELOPMENTAL SPECIFICATION SLIPLINING EXISTING PIPE CULVERTS FOR MORE INFORMATION
5	2549-0041033	SEE GENERAL NOTES ON PAGE C.01 AND THE TABULATION OF STRUCTURES TO BE LINED (UV CURED IN PLACE) ON SHEET C.03. PRE-REHABILITATION CLEANING AND INSPECTION SHALL BE CONSIDERED INCEDENTAL. EXISTING APRONS SHALL BE REMOVED.

STRUCTURES TO BE LINED (Solid Wall HDPE) ALTERNATE AA OPTION 1													
Existing Structure							Proposed Liner						
					Flowline Elevation (ft)					Offset From Centerline (ft)		Annular Space for Grouting (CY)	Notes
SITE NO.	STATION	TYPE	DIAMETER (IN)	LENGTH (FT)	LT	RT	Outside Dia. (in)	Length (ft)	Type	LT	RT		
1	81+61	CMP	36	95.5	983	998.2	32	95.5	Solid Wall HDPE	44.3	51.1	5.2	HWY J3T
2	89+24	CMP	24	69.5	988.6	986.1	20	69.5	Solid Wall HDPE	30.7	38.8	2.5	HWY J3T
3	110+31	CMP	30	89.3	983.1	975.2	24	89.3	Solid Wall HDPE	26.9	61.8	5.8	HWY J3T
4	126+89	CMP	30	128	977.7	958.5	24	128	Solid Wall HDPE	38.2	88.4	8.4	HWY J3T
5	152+35	CMP	24	75.3	975.1	978.9	20	75.3	Solid Wall HDPE	44.1	31	2.7	HWY J3T
6	163+92	CMP	24	62.5	988.7	989.6	20	62.5	Solid Wall HDPE	32.5	30	2.2	HWY J3T
7	175+30	CMP	24	76.8	990.7	988.6	20	76.8	Solid Wall HDPE	36	40.9	2.7	HWY J3T
8	196+71	CMP	24	57.1	988.4	988.5	20	57.1	Solid Wall HDPE	33.5	23.7	2.0	HWY J3T
9	211+63	CMP	24	91.3	984.4	980	20	91.3	Solid Wall HDPE	39.1	52.1	3.2	HWY J3T
10	231+58	CMP	24	71	981.4	984.1	20	71	Solid Wall HDPE	35.1	35.9	2.5	HWY J3T
11	238+82	CMP	24	69.4	974	976.3	20	69.4	Solid Wall HDPE	37.1	32.3	2.5	HWY J3T
12	279+93	CMP	30	85	962.5	963.5	24	85	Solid Wall HDPE	43.5	41.4	5.6	HWY J3T
13	290+34	CMP	24	71.2	973.9	972.4	20	71.2	Solid Wall HDPE	28.8	42.3	2.5	HWY J3T
14	294+71	CMP	24	79.4	968	961.7	20	79.4	Solid Wall HDPE	29.3	49.8	2.8	HWY J3T
15	300+34	CMP	24	59.4	978.8	978.7	20	59.4	Solid Wall HDPE	25.9	33.5	2.1	HWY J3T
16	311+22	CMP	24	130	970.7	960	20	130	Solid Wall HDPE	35.8	85	4.6	HWY J3T
17	329+68	CMP	24	83.3	960.7	968.5	20	83.3	Solid Wall HDPE	53.5	29.4	3.0	HWY J3T
18	345+87	CMP	24	88.8	952.7	941.4	20	88.8	Solid Wall HDPE	31.1	57.1	3.2	HWY J3T
19	1015+65	CMP	30	64.8	1001.9	1002.1	24	64.8	Solid Wall HDPE	22.4	24.4	4.2	HWY J18
20	1034+15	CMP	24	63.4	995.7	993.7	20	63.4	Solid Wall HDPE	30.2	33.1	2.3	HWY J18
21	1041+27	CMP	30	68.4	992.9	994.3	24	68.4	Solid Wall HDPE	38.5	29.9	4.5	HWY J18
22	1063+08	CMP	30	84.1	979.4	982.5	24	84.1	Solid Wall HDPE	44.3	39.9	5.5	HWY J18

STRUCTURES TO BE LINED (UV Cured in Place) ALTERNATE AA OPTION 2												
Existing Structure							Proposed Liner					
					Flowline Elevation (ft)					Offset From Centerline (ft)		Notes
SITE NO.	STATION	TYPE	DIAMETER (IN)	LENGTH (FT)	LT	RT	Outside Dia. (in)	Length (ft)	Type	LT	RT	
1	81+61	CMP	36	95.5	983.0	998.2	36	95.5	UV Cured in Place	44.3	51.1	HWY J3T
2	89+24	CMP	24	69.5	988.6	986.1	24	69.5	UV Cured in Place	30.7	38.8	HWY J3T
3	110+31	CMP	30	89.3	983.1	975.2	30	89.3	UV Cured in Place	26.9	61.8	HWY J3T
4	126+89	CMP	30	128.0	977.7	958.5	30	128	UV Cured in Place	38.2	88.4	HWY J3T
5	152+35	CMP	24	75.3	975.1	978.9	24	75.3	UV Cured in Place	44.1	31.0	HWY J3T
6	163+92	CMP	24	62.5	988.7	989.6	24	62.5	UV Cured in Place	32.5	30.0	HWY J3T
7	175+30	CMP	24	76.8	990.7	988.6	24	76.8	UV Cured in Place	36.0	40.9	HWY J3T
8	196+71	CMP	24	57.1	988.4	988.5	24	57.1	UV Cured in Place	33.5	23.7	HWY J3T
9	211+63	CMP	24	91.3	984.4	980.0	24	91.3	UV Cured in Place	39.1	52.1	HWY J3T
10	231+58	CMP	24	71.0	981.4	984.1	24	71	UV Cured in Place	35.1	35.9	HWY J3T
11	238+82	CMP	24	69.4	974.0	976.3	24	69.4	UV Cured in Place	37.1	32.3	HWY J3T
12	279+93	CMP	30	85.0	962.5	963.5	30	85	UV Cured in Place	43.5	41.4	HWY J3T
14	290+34	CMP	24	71.2	973.9	972.4	24	71.2	UV Cured in Place	28.8	42.3	HWY J3T
13	294+71	CMP	24	79.4	968.0	961.7	24	79.4	UV Cured in Place	29.3	49.8	HWY J3T
15	300+34	CMP	24	59.4	978.8	978.7	24	59.4	UV Cured in Place	25.9	33.5	HWY J3T
16	311+22	CMP	24	130.0	970.7	960.0	24	130	UV Cured in Place	35.8	85.0	HWY J3T
17	329+68	CMP	24	83.3	960.7	968.5	24	83.3	UV Cured in Place	53.5	29.4	HWY J3T
18	345+87	CMP	24	88.8	952.7	941.4	24	88.8	UV Cured in Place	31.1	57.1	HWY J3T
19	1015+65	CMP	30	64.8	1001.9	1002.1	30	64.8	UV Cured in Place	22.4	24.4	HWY J18
20	2034+15	CMP	24	63.4	995.7	993.7	24	63.4	UV Cured in Place	30.2	33.1	HWY J18
21	2041+27	CMP	30	68.4	992.9	994.3	30	68.4	UV Cured in Place	38.5	29.9	HWY J18
22	2063+08	CMP	30	99.8	979.4	982.5	30	99.8	UV Cured in Place	44.3	39.9	HWY J18