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PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
MAHASKA COUNTY
PCC PATCHING
On US 63
S Skunk River to ECL of New Sharon

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	
11	
PROJECT IDENTIFICATION NUMBER	
26-62-063-030	
PROJECT NUMBER	
MP-063-5(713)68--76-62	
R.O.W. PROJECT NUMBER	

INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Anthony J Klein	Primary Signature Block	C.1

PROFESSIONAL ENGINEER

ANTHONY JARED KLEIN

21902

IOWA

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

Anthony J. Klein

Printed or Typed Name

8/31/26

XX-XX-XX

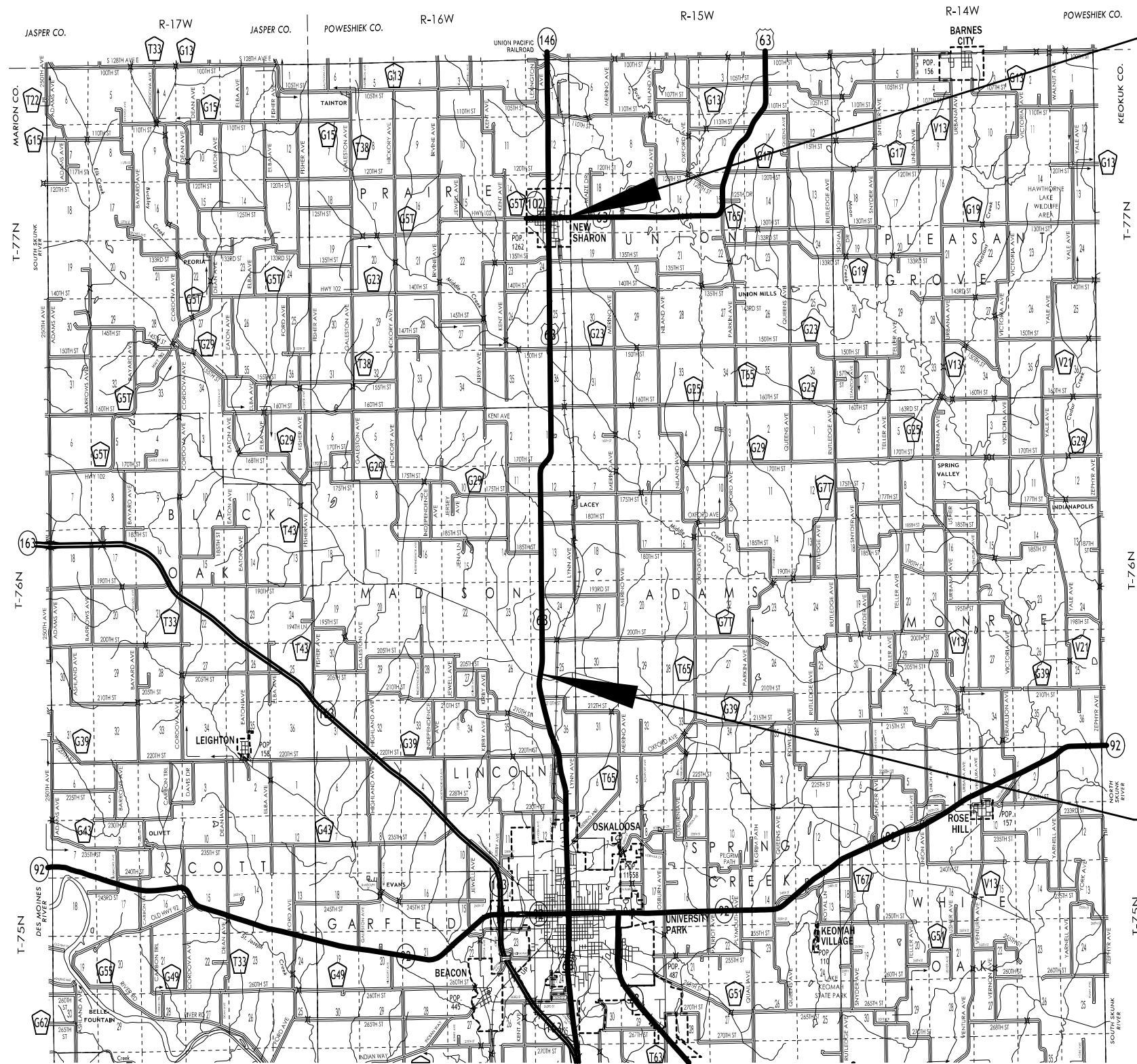
Date

My license renewal date is December 31, 2026 XX

Pages or sheets covered by this seal: ALL SHEETS

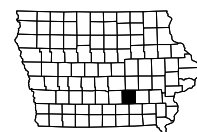
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END CONSTRUCTION
M.P. 76.4

BEGIN CONSTRUCTION
M.P. 68.0



ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2528-8445110	TRAFFIC CONTROL	LS	1	As per current Standard Specifications and Road Standards. See Tab 108-23A for additional information.
2	2528-8445113	FLAGGERS	EACH	0	See Proposal.
3	2528-8445115	PILOT CARS	EACH	0	
4	2529-2242304	CD JOINT ASSEMBLY	EACH	28	Refer to Tab. 102-6C for locations and details.
5	2529-2242320	CT JOINT	EACH	13	
6	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	791.18	Refer to Tab. 102-6C for locations and details. Quantity increased by 5% for irregularities.
7	2529-5070111	PATCHES, FULL-DEPTH FINISH, BY AREA (50 FEET OR GREATER IN LENGTH)	SY	459.06	
8	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	54	
9	2533-4980005	MOBILIZATION	LS	1	As per current Standard Specifications.

100_01D
8/15/22

PROJECT DESCRIPTION

This project includes Rural Full-Depth Patching at various locations along US 63 in Mahaska County from S Skunk River to ECL of New Sharon.

105_04 10/20/26 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
PR-101	10-21-25	Full Depth Patch with 'EF' Joint in PCC
PR-103	10-21-25	Full Depth PCC Patch with Dowels
PR-140	04-21-15	Subbase Patches
PV-101	10-20-26	Joints
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-18-23	Work Within 15 ft of Traveled Way
TC-212	04-18-23	Spot Location Lane Closure with Flaggers
TC-213	04-18-23	Lane Closure with Flaggers
TC-214	04-18-23	Lane Closure with Flaggers for use with Pilot Car
TC-231	04-18-23	Slow Moving Vehicle Operating in the Traffic Lane

EXISTING PAVEMENT																					102_05 9/29/23
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
1.0	Mahaska	US-63	2-Lane	68.31	69.85	2010		ESP-063-3(78)--2S-62	HMA	1.5	HMA	3.5			MIL	1.5	DURHAM MINE	C.LST.			
2.0	Mahaska	US-63	2-Lane	68.31	69.85	2010	W	ESP-063-3(78)--2S-62	HMA	1.5	HMA	3.5	HMA	3.0			DURHAM MINE	C.LST.			WIDEN 4' BOTH SIDES
3.0	Mahaska	US-63	2-Lane	68.31	69.85	1988		FN-63-3(40)--12-62	AAC	4.5							DURHAM	C.LST.			
4.0	Mahaska	US-63	2-Lane	68.31	69.85	1962		F-364(4)	AAC	1.5	AAC	1.5					LANGSTRATT	C.LST.			
5.0	Mahaska	US-63	2-Lane	68.31	69.85	1930		P-511A	PC7	7.0							LINWOOD	C.LST.	I		
6.0	Mahaska	US-63	2-Lane	69.85	75.31	2010		ESP-063-3(78)--2S-62	HMA	1.5	HMA	3.5			MIL	1.5	DURHAM MINE	C.LST.			
7.0	Mahaska	US-63	2-Lane	69.85	75.31	2010	W	ESP-063-3(78)--2S-62	HMA	1.5	HMA	3.5	HMA	9.0			DURHAM MINE	C.LST.			WIDEN 3' BOTH SIDES
8.0	Mahaska	US-63	2-Lane	69.85	75.31	2001	V	MP-63-5(703)70--76-62	AAC	1.5	BAC	1.5									
9.0	Mahaska	US-63	2-Lane	69.85	75.31	1988		FN-63-3(40)--12-62	AAC	4.5							DURHAM	C.LST.			VL 94AC MP
10.0	Mahaska	US-63	2-Lane	69.85	75.31	1974		FN-63-3(19)--21-62	AAC	1.5							KESWICK	C.LST.			
11.0	Mahaska	US-63	2-Lane	69.85	75.31	1953		F-364	BAC	1.5	TBB	0.5					PELLA LST.	C.LST.			
12.0	Mahaska	US-63	2-Lane	69.85	75.31	1930		P-511A	PC7	7.0							LE GRAND	C.LST.	1		LINWOOD ST.=I
13.0	Mahaska	US-63	2-Lane	75.31	75.95	2009		ESP-063-3(78)--2S-62	HMA	1.5	HMA	1.5					DURHAM MINE	C.LST.			
14.0	Mahaska	US-63	2-Lane	75.31	75.95	1955		NA	PCC	8.5											
15.0	Mahaska	US-63	2-Lane	75.95	76.32	2010	V	STPN-063-3(70)--2J-62	HMA	1.5	HMA	1.5	CIP	3.0	MIL	3.0					Last 0.12mi of section
16.0	Mahaska	US-63	2-Lane	75.95	76.32	1987		NA	PCC	9.0											

FILE NO.	ENGLISH	DESIGN TEAM	McElmeel/Roberts/Freitag	MAHASKA COUNTY	PROJECT NUMBER	MP-063-5(713)68--76-62	SHEET NUMBER	C.5
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102_06C 4/21/26																						
FULL-DEPTH PATCHES																						
Line No.	Count	Station	Reference Location Sign	Direction of Travel	Side	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	HMA Patches (SY)	Composite HMA (TON)	Subbase Patches (PR-140) (SY)	Subbase Patch with 'EF' Joint (PR-101) (SY)	Patch Subdrain PR-101 or PR-140 (No.)	'CD' Joints (No.)	'CT' Joints (No.)	'EF' Joints PR-101 (No.)	Anchor Lugs Removal (No.)	Remarks	
Remarks SEE NOTE 2:												346.2							7		3	
47.0	1		76.146			63.0	13.0	12.0	Finish	PCC With Dowels (PR-103)	91.0						3	1			SEE NOTE B	
Remarks SEE NOTE B:												91							3		1	
Total:												1190.7							12		5	

2529-5070110 PATCHES, FULL-DEPTH FINISH, BY AREA = 753.5 + 5% = 791.18 S.Y.
2529-5070111 PATCHES, FULL-DEPTH FINISH, BY AREA (50 FT OR GREATER IN LENGTH) = 437.2 + 5% = 459.06 S.Y.

NOTE 1 : BID ITEM IS 2529-5070110 PATCHES, FULL-DEPTH FINISH, BY AREA
NOTE 2 :2529-5070111 PATCHES, FULL-DEPTH FINISH, BY AREA (50 FT OR GREATER IN LENGTH)

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
NHSX-063-5(95)--3H-62	Grading NW Bypass Oskaloosa
NHSX-063-5(95)--3H-62	Bridge Project
NHSX-063-5(95)--3H-62	Culvert Project

108_23A
8/15/22

TRAFFIC CONTROL PLAN

1. Through traffic will be maintained on the project at all times.

511 TRAVEL RESTRICTIONS												108_25 3/28/24		
Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks	
None Provided.														
FILE NO.	ENGLISH	DESIGN TEAM	McElmeel/Roberts/Freitag			MAHASKA COUNTY		PROJECT NUMBER			MP-063-5(713)68--76-62		SHEET NUMBER	J.3