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PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
LUCAS COUNTY
PCC Patching
On IA 14
Chariton to Knoxville

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	12
PROJECT IDENTIFICATION NUMBER	
26-59-014-010	
PROJECT NUMBER	
MP-014-5(705)19--76-59	
R.O.W. PROJECT NUMBER	
-	
-	
-	

CHARITON TO G62 DESIGN DATA RURAL			
2024	AADT	3000	V.P.D.
20	-- AADT	--	V.P.D.
20	-- DHV	--	V.P.H.
TRUCKS		13	%
Total			
Design ESALs		--	

G62 TO KNOXVILLE DESIGN DATA RURAL			
2024	AADT	5300	V.P.D.
20	-- AADT	--	V.P.D.
20	-- DHV	--	V.P.H.
TRUCKS		14	%
Total			
Design ESALs		--	

INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Jared A. Roberts	Primary Signature Block	C.1

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: *Jared A. Roberts* Date: *8-3-2026*

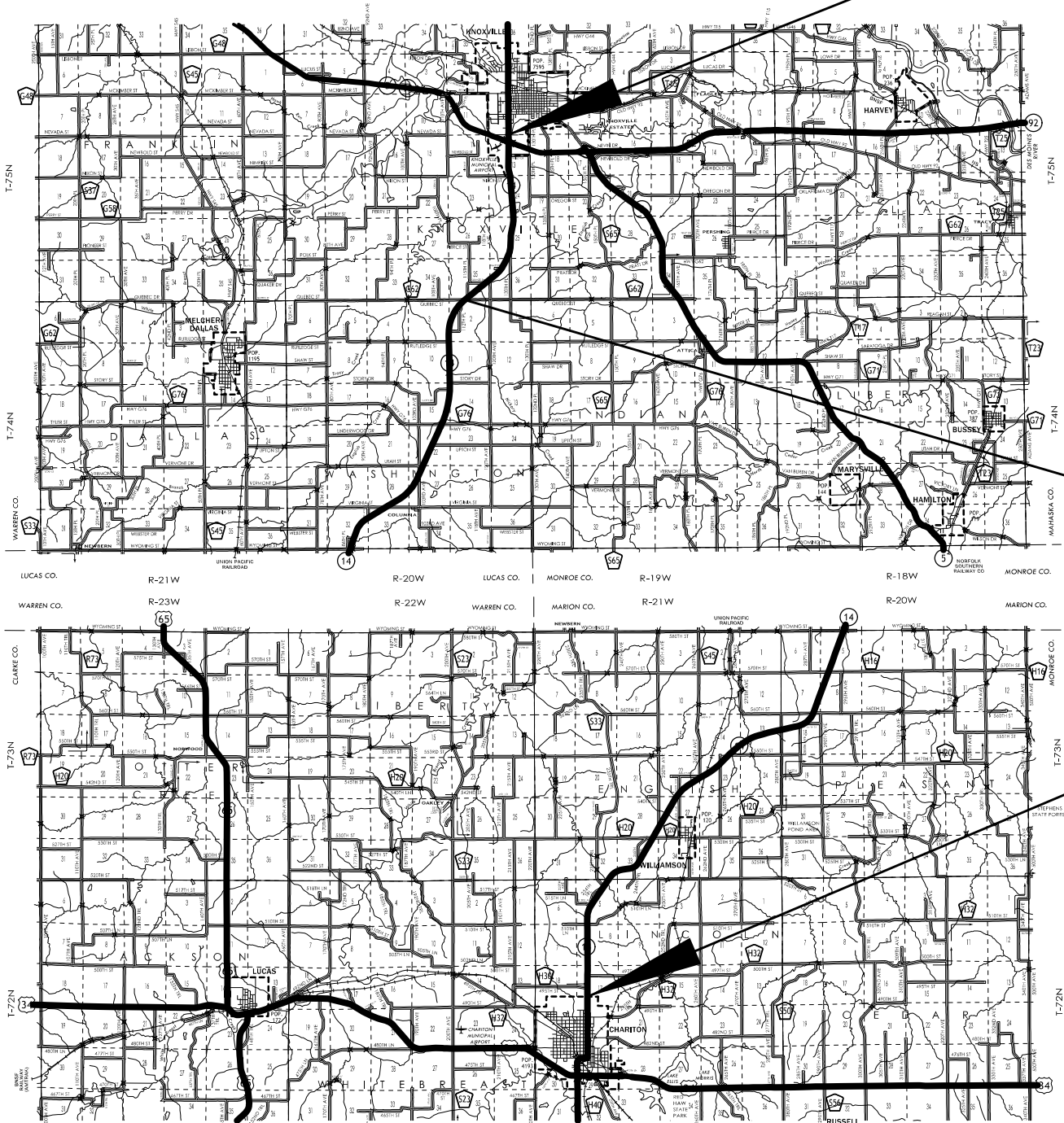
Printed or Typed Name: **Jared A. Roberts**

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: **ALL SHEETS**

MARION COUNTY

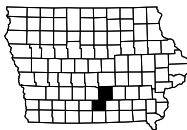
LUCAS COUNTY



END CONSTRUCTION
End PCC Patching
MP 42.7
STA 1294+80

EQUATION
Sta 1080+08.8 BK
= Sta 907+23.0 AH

BEGIN CONSTRUCTION
Begin PCC Patching
MP 19.4
STA 75+45



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	6	Refer to Tab. 102-6C for locations and details
5	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	1,337.28	Refer to Tab. 102-6C for locations and details. Quantity increased by 5% for irregularities.
6	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	111	Refer to Tab. 102-6C for locations and details.
7	2533-4980005	MOBILIZATION	LS	1	As per current Standard Specifications.

PROJECT DESCRIPTION This project is for PCC full-depth finish patching on IA 14 from Chariton to Knoxville, in Lucas and Marion Counties. This project begins north of Chariton (MP 19.4) and ends south of Knoxville (MP 42.7).				100_01D 8/15/22				
FILE NO.	ENGLISH	DESIGN TEAM	McElmeel/Klein/Roberts	LUCAS COUNTY	PROJECT NUMBER	MP-014-5(705)19--76-59	SHEET NUMBER	C.2

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
1.0		IA-14	Both	19.4	23.9	2024	S	MP-014-5(704)19--76-59	SS												
2.0		IA-14	Both	19.4	23.9	2012		STP-014-2(33)--2C-59	HMA	2.0					SCR	1.0					
3.0		IA-14	Both	19.4	23.9	2012	W	STP-014-2(33)--2C-59	HMA	2.0	HMA	8.0									
4.0		IA-14	Both	19.4	23.9	1985		FR-14-2(15)--2G-59	BAC	1.5	TBB	1.5					LEMLEY	C.LST.			
5.0		IA-14	Both	19.4	23.9	1940		FA-63E(3)	PC8	8.0							EDDYVILLE	GRAVEL	2		
6.0																					
7.0		IA-14	Both	23.9	31.16	2024	S	MP-014-5(704)19--76-59	SS												
8.0		IA-14	Both	23.9	31.16	2006		STPN-14-2(29)--2J-59	HMA	2.0	HMA	2.5					DURHAM MINE	C.LST.			
9.0		IA-14	Both	23.9	31.16	2006	W	STPN-14-2(29)--2J-59	HMA	2.0	HMA	2.5	HMA	10.0							
10.0		IA-14	Both	23.9	31.16	1955		F-63(11)	PCC	8.0							DES MOINES	GRAVEL	2		
11.0																					
12.0		IA-14	Both	31.16	35.06	2024	S	MP-014-5(704)19--76-59	SS												
13.0		IA-14	Both	31.16	35.06	2006	W	STPN-14-2(29)--2J-59	HMA	2.0	HMA	2.5	HMA	10.0			DURHAM MINE	C.LST.			
14.0		IA-14	Both	31.16	35.06	2006		STPN-14-2(29)--2J-59	HMA	2.0	HMA	2.5					DURHAM MINE	C.LST.			
15.0		IA-14	Both	31.16	35.06	1955		F-75(5)	PCC	8.0							WEST DES MOINES	GRAVEL	2		
16.0																					
17.0		IA-14	Both	35.06	42.7	2024	S	MP-014-5(704)19--76-59	SS												
18.0		IA-14	Both	35.06	42.7	2012		STP-014-3(41)--2C-63	HMA	2.0					SCR	1.0					
19.0		IA-14	Both	35.06	42.7	2012	W	STP-014-3(41)--2C-63	HMA	2.0	HMA	4.0									
20.0		IA-14	Both	35.06	42.7	1985		FR-14-3(23)--2G-63	BAC	1.5	TBB	1.5					DURHAM	C.LST.			
21.0		IA-14	Both	35.06	42.7	1947		F-75(4) & FA-7(3)	PC8	8.0							WEST DES MOINES	GRAVEL	2		

FULL-DEPTH PATCHES												102_06C 4/21/26
Line No.	Count	Station	Side	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	'CD' Joints (No.)	'CT' Joints (No.)	Remarks
58.0	2	998+75.00	Both	8.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	21.3			
59.0	2	1005+00.00	Both	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			
60.0	2	1011+20.00	Both	12.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	32.0			
61.0	1	1043+40.00	Left	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	8.0			
62.0	2	1051+80.00	Both	10.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	26.7			
63.0	2	1087+00.00	Both	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			
64.0	2	1094+10.00	Both	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			
65.0	2	1094+50.00	Both	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			
66.0	2	1107+60.00	Both	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			EQUATION WITHIN THESE 3 PATCHES
67.0	1	1110+60.00	Right	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	8.0			EQUATION WITHIN THESE 3 PATCHES
68.0	2	1111+00.00	Both	12.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	32.0			EQUATION WITHIN THESE 3 PATCHES
69.0	2	950+10.00	Both	8.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	21.3			
70.0	1	974+10.00	Right	8.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	10.7			
71.0	2	978+65.00	Both	8.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	21.3			
72.0	1	1001+60.00	Right	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	8.0			
73.0	1	1026+10.00	Right	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	8.0			
74.0	1	1027+35.00	Left	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	8.0			
75.0	1	1039+20.00	Right	10.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	13.3			
76.0	1	1040+20.00	Left	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	8.0			
77.0	2	1069+00.00	Both	6.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			
78.0	1	1090+50.00	Right	8.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	10.7			
79.0	1	1091+65.00	Left	12.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	16.0			
80.0	2	1104+40.00	Both	10.0	12.0	12.5	Finish	PCC With Dowels (PR-103)	26.7			
Total:		111							1273.6	6		

2529-5070110 PATCHES 1273.6 S.Y. W/ 5% IRREGULARITIES = 1337.28 S.Y.
1. A STATION EQUATION OCCURS AT THE FOLLOWING STATION: STA 1080+08.8 BK = STA 907+23.0 AH. STATION EQUATION DISCREPANCIES TO BE RESOLVED IN THE FIELD.

105_04 10/20/26 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
PR-103	10-21-25	Full Depth PCC Patch with Dowels
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

262_06
9/28/22

UTILITIES (NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

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/Klein/Roberts			LUCAS COUNTY	PROJECT NUMBER	MP-014-5(705)19--76-59			SHEET NUMBER	J.2	

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
MP-014-5(706)19--76-59	Longitudinal Joint Repair