Seal Coat

LETTING DATE Nov. 17, 2026

STPN-175-1(119)--2J-67

MONONA COUNTY

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
A.3	Detour Route Sheet
B Sheets	**Typical Cross Sections and Details**
B.1	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1	Estimated Project Quantities & Reference Information
C.2 - 14	Tabulations & General Notes
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	511 Travel Restrictions
J.3	Coordinated Operations
J.4	Staging Notes
J.5	Detour Signing Sheet
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
U.1 - 12	Plan View Sheets - For Information Only
U.13	Detail Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

MONONA COUNTY

Seal Coat

IA 37 to 0.26 mi SW of S Front St
in Mapleton

SCALES: As Noted

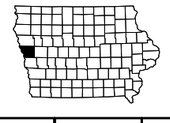
Refer to the Proposal Form for list of applicable specifications.

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

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

	TOTAL
	36
PROJECT IDENTIFICATION NUMBER	
26-67-175-020	
PROJECT NUMBER	
STPN-175-1(119)--2J-67	
R.O.W. PROJECT NUMBER	



DESIGN DATA RURAL			
2026	AADT	960	V.P.D.
20 --	AADT	--	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		8	%
Total Design ESALs		--	

DESIGN DATA URBAN			
2026	AADT	805	V.P.D.
20 --	AADT	--	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		9	%
Total Design ESALs		--	

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
JUSTIN M. POTTORFF
25733
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 — Date: 09/01/2026

JUSTIN M. POTTORFF
Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: ALL

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER A.1

2:41:28 PM 8/27/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_A01.dgn

END CONSTRUCTION
STA. 690+00
MP 28.14

R-44W

R-43W

R-42W

T-85N

T-84N

FHWA # 37051

FHWA # 37031

END DIVISION 2
RESUME DIVISION 1
STA. 280+21

FHWA # 37091

FHWA # 37081

FHWA # 37071

FHWA # 37061

FHWA # 603610

FHWA # 603600

FHWA # 603590

FHWA # 603580

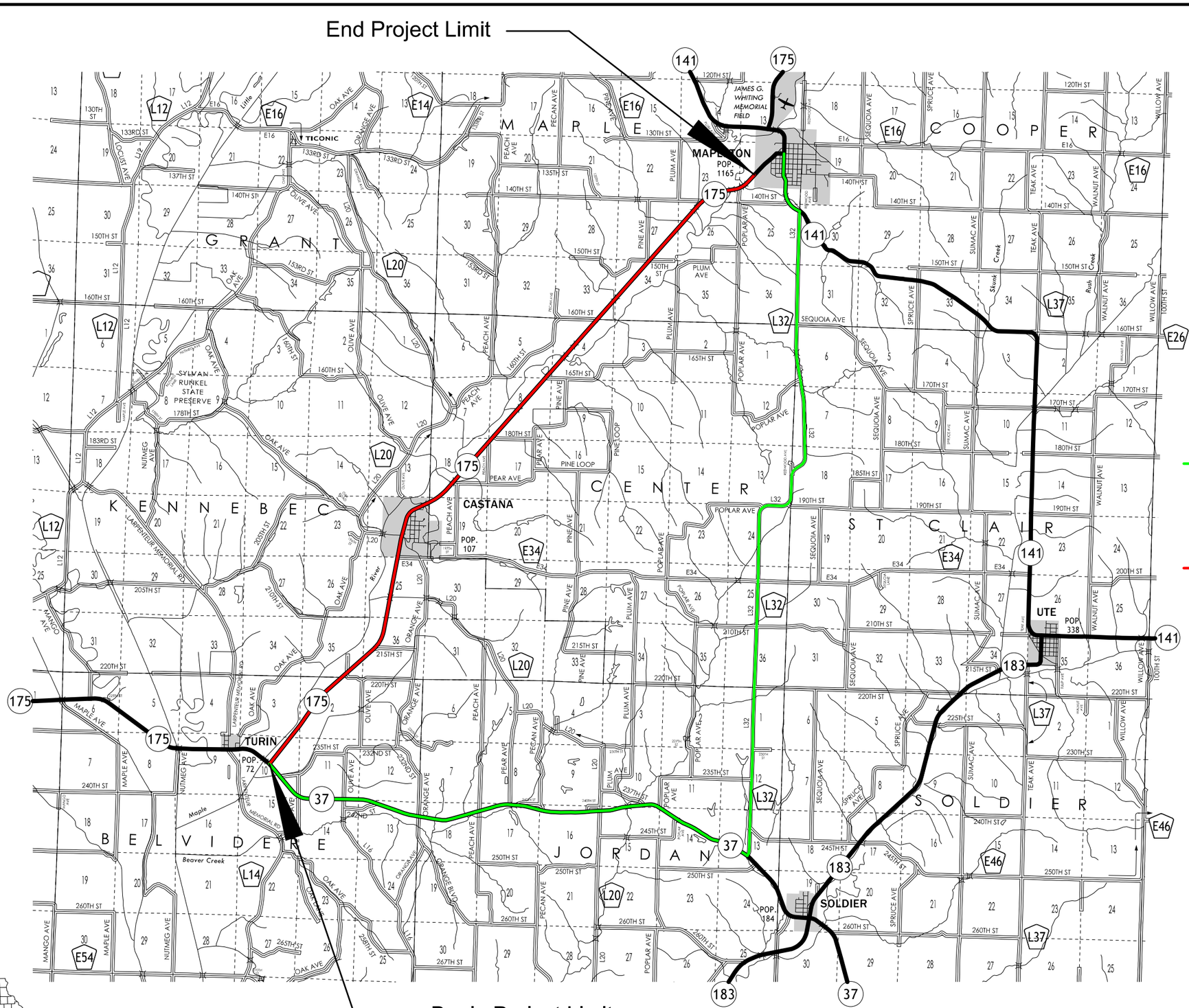
BEGIN CONSTRUCTION
BEGIN DIV. 1
STA. 0+00
MP 15.08

STOP DIVISION 1
BEGIN DIVISION 2
STA. 220+18.5

LOCATION MAP SCALE
0 1 2 3
Miles

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER A.2

2:41:29 PM 8/27/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_A01.dgn



Detour Map

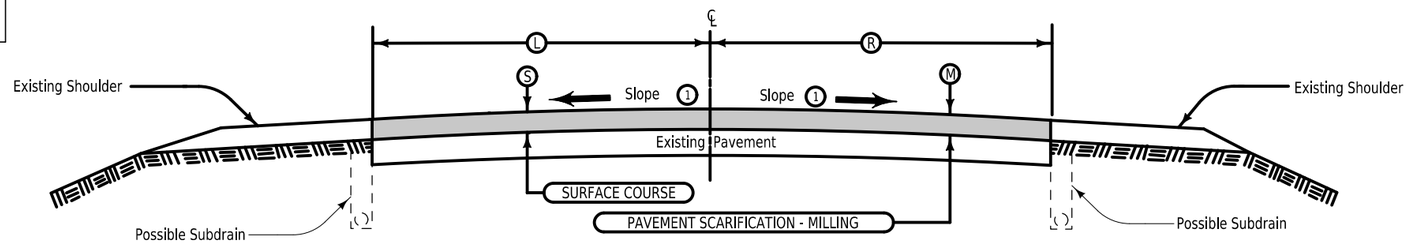
Detour signing to be done by Contractor

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER A.3

2:41:30 PM 8/27/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_A01.dgn

DESIGN RATES		
ITEM	RATE	QUANTITY
Surface Course	147 lbs./cu.ft.	Tons
Tack Coat	0.05 gal./sq.yd.	Gal.
Scarification	145 lbs./cu.ft.	Tons

2618
MODIFIED



Notes:

Section shown in the direction of travel

(1) Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.

Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.

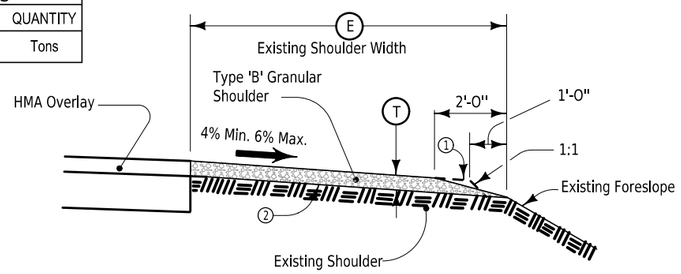
(2) Tack Coat estimated for 1 application, Incidental to mainline quantities.

Design Quantities Per Station											
Location			(S)	(M)	(L)	(R)	TACK COAT (2)	SCARIFICATION	HMA SURFACE	PG58-28S BINDER	Remarks
Road Identification	Station To Station		Inches	Inches	Feet	Feet	GAL	SY	TONS	TONS	
IA 175	53+50	71+45	2.0	2.0	11	11	12.22	244.44	26.95	1.62	Division 1
IA 175	80+45	90+14	2.0	2.0	11	11	12.22	244.44	26.95	1.62	Division 1
IA 175	219+00	220+18.5	2.0	2.0	11	11	12.22	244.44	26.95	1.62	Division 1
IA 175	220+18.5	222+24	2.0	2.0	11	11	12.22	244.44	26.95	1.62	Division 2
IA 175	294+10	310+80	2.0	2.0	11	11	12.22	244.44	26.95	1.62	Division 1
IA 175	315+50	351+80	2.0	2.0	11	11	12.22	244.44	26.95	1.62	Division 1

TYPICAL CROSS SECTION
HMA RESURFACING & PAVEMENT
SCARIFICATION

DESIGN RATES		
ITEM	RATE	QUANTITY
Granular Shoulder	140 lbs./cu.ft.	Tons

7135
Modified



(1) Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.

(2) Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.

(3) Per station.

LOCATION				(T)	(E)	BLADE & SHAPE	TONS	REMARKS
ROAD IDENTIFICATION	STATION TO STATION		SIDE	Inches	Feet	STA (3)	(3)	
IA 175	53+50	71+45	RT	2.0	4	1.00	4.67	Division 1
IA 175	80+45	90+14	RT	2.0	4	1.00	4.67	Division 1
IA 175	219+00	220+18.5	RT	2.0	4	1.00	4.67	Division 1
IA 175	220+18.5	222+24	RT	2.0	4	1.00	4.67	Division 2
IA 175	294+10	310+80	RT	2.0	4	1.00	4.67	Division 1
IA 175	315+50	351+80	RT	2.0	4	1.00	4.67	Division 1
IA 175	53+50	71+45	LT	2.0	4	1.00	4.67	Division 1
IA 175	80+45	90+14	LT	2.0	4	1.00	4.67	Division 1
IA 175	219+00	220+18.5	LT	2.0	4	1.00	4.67	Division 2
IA 175	220+18.5	222+24	LT	2.0	4	1.00	4.67	Division 1
IA 175	294+10	310+80	LT	2.0	4	1.00	4.67	Division 1
IA 175	315+50	351+80	LT	2.0	4	1.00	4.67	Division 1

TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER
ADJACENT TO HMA OVERLAY

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : Rural
Division 2 : Urban

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
1	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	763.7	19.18	782.88	Refer to Typical 7135 on B Sheets.
2	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	20,001.67	502.33	20,504	Refer to Typical 2618 on B Sheets.
3	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	163.65	4.11	167.76	Refer to Typical 7135 on B Sheets.
4	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT	TON	2,205.18	55.38	2,260.56	Refer to Typical 2618 on B Sheets.
5	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	132.31	3.32	135.63	Refer to Typical 2618 on B Sheets. Estimated at 6% of HMA Surface.
6	2307-1400000	ASPHALT EMULSION FOR DUST CONTROL	GAL	25,767.38	2,834.09	28,601.47	See Special Provision for Polymer Scrub Seal for more information.
7	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	2,885.7	479.84	3,365.54	Refer to Tab. 108-22 on C Sheets.
8	2527-9263225	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL	STA	2.75		2.75	
9	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	1,255.05	257.26	1,512.31	
10	2528-2518000	SAFETY CLOSURE	EACH	4		4	Refer to Tab. 108-13A on C Sheets.
11	2528-8445110	TRAFFIC CONTROL	LS	1		1	Refer to Traffic Control Plan on Tab. 108-23A on J Sheets. All detour signing will be fabricated, installed, maintained and removed by the Contractor.
12	2528-8445115	PILOT CARS	EACH	0		0	See Proposal.
13	2528-8445116	FLAGGER WITH AFAD	EACH	0		0	See Proposal.
14	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0		0	See Proposal. Coordinate message content for the PDMS board 7 to 10 days ahead of the detour start and are requested through the duration of the project. Message content for the PDMS can be supplied by either the Engineer or the Traffic Tech. Engineer, Andrew Theeler: 515-203-1074; andrew.theeler@iowadot.us. Traffic Tech, Bethany Waltersdorf: 712-539-1033; bethany.waltersdorf@iowadot.us.
15	2529-2242304	CD JOINT ASSEMBLY	EACH	12		12	Refer to Tab. 102-6C on C Sheets.
16	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	343.9		343.9	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
17	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	20		20	
18	2529-8202000	RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)	EACH	1		1	Refer to Tab. 112-07 on C Sheets.
19	2533-4980005	MOBILIZATION	LS	1		1	- -
20	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	613.78		613.78	Refer to Tab. 112-10 on C Sheets.
21	2548-0000317	ENGINEERED EMULSION FOR FOG SEAL (CENTERLINE RUMBLE STRIPS)	SY	7,957.6		7,957.6	Refer to Tab. 112-10 on C Sheets. See Special Provisions for Penetrating Engineered Fog Seal for more information.
22	2599-9999006	('GALLONS' ITEM) Emulsion for Scrub Seal	GAL	45,092.91	4,959.66	50,052.57	See Special Provision for Polymer Scrub Seal for more information.
23	2599-9999018	('SQUARE YARDS' ITEM) Scrub Seal Area	SY	128,836.89	14,170.44	143,007.33	See Special Provision for Polymer Scrub Seal for more information. Use L-4 Friction aggregate for the polymer scrub seal. Gap bridge decks and deduct from measured area.

100_01D
8/15/22

PROJECT DESCRIPTION

This a Scrub Seal with Spot HMA Milling and Resurfacing project on IA 175 in Monona County from IA 37 to Mapleton. Other work includes PCC Patching, Rumble Strips, and Pavement Markings.

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	Monona	IA-175	NB	15.12	28.13	2009	V	STPN-175-1(42)--2J-67	HMA	2.0							CRESCENT	C.LST.			
2.0	Monona	IA-175	NB	15.12	28.13	2003	V	MP-175-3(704)15--76-67	AAC	2.0											
3.0	Monona	IA-175	NB	15.12	28.13	1996	V	MP-175-3(701)15--76-67	AAC	2.0											
4.0	Monona	IA-175	NB	15.12	28.13	1989		MP-175-3(3)15--76-	BSC												
5.0	Monona	IA-175	NB	15.12	28.13	1974		FN-175-1(13)--21-67	BAC	1.0	TBB	2.0					LOGAN	C.LST.			
6.0	Monona	IA-175	NB	15.12	28.13	1956		F-994(1)	BAC	2.0	ATB	8.0	SAS	6.0			ULLRICH PIT-OTO				
7.0																					
8.0	Monona	IA-175	NB	28.13	28.74	1974		NA	BAC	5.0											
9.0	Monona	IA-175	NB	28.13	28.74	1955		NA	AAC	8.0	SAS	6.0									

8/24/2026 11:22:00 AM aaron.schwarz@dot.iowa.gov

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
DR-303	10-17-17	Subdrains (Longitudinal)
DR-305	04-19-22	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)
PM-110	10-15-24	Line Types
PM-115	10-20-26	Grooving for Line Types
PM-120	10-15-24	Stop Lines and Islands
PR-103	10-21-25	Full Depth PCC Patch with Dowels
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-10	10-20-26	Rumble Strip Panel for Intersection Approach
PV-13	10-20-26	Milled Centerline Rumble Strips
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-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
TC-233	10-17-17	Pavement Marking Operations Two-Lane
TC-252	10-20-26	Routes Closed to Traffic

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

(1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Line No.	Station	Type of Notch or Runout	S (IN)	I (IN)	DI (IN)	L (FT)	M (IN)	Pavement Scarification (SY) (1)	Remarks
1.0	53+50.00	Type N2	2.0				2.0		
2.0	71+45.00	Type N2	2.0				2.0		
3.0	80+45.00	Type N2	2.0				2.0		
4.0	90+14.00	Type N2	2.0				2.0		
5.0	219+00.00	Type N2	2.0				2.0		
6.0	222+24.00	Type N2	2.0				2.0		
7.0	294+10.00	Type N2	2.0				2.0		
8.0	310+80.00	Type N2	2.0				2.0		
9.0	315+50.00	Type N2	2.0				2.0		
10.0	351+80.00	Type N2	2.0				2.0		

FULL-DEPTH PATCHES

Line No.	Count	Station	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
1.0	1	+30.00	WB	Left	10.5	12.0	9.0	Finish	PCC With Dowels (PR-103)	14.0										Remove curbed stop island
2.0	1	3+35.00	WB	Left	30.0	11.0	9.0	Finish	PCC With Dowels (PR-103)	36.7						2				Remove rumble strip panel
3.0	1	14+90.00	WB	Left	30.0	11.0	9.0	Finish	PCC With Dowels (PR-103)	36.7						2				Proposed rumble strip panel
4.0	1	102+50.00	WB	Left	10.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	12.2										
5.0	1	133+86.00	WB	Left	15.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	18.3						1				
6.0	1	136+70.00	WB	Left	15.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	18.3						1				
7.0	1	146+23.00	WB	Left	10.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	12.2										
8.0	1	190+31.00	WB	Right	20.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	24.4						1				
9.0	2	301+83.00	WB	Both	20.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	48.9						2				
10.0	1	335+75.00	WB	Right	15.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	18.3						1				
11.0	2	456+30.00	WB	Both	15.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	36.7						2				
12.0	2	458+00.00	WB	Both	6.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	14.7										
13.0	1	459+40.00	WB	Center	20.0	6.0	19.0	Finish	PCC With Dowels (PR-103)	13.3										
14.0	2	460+40.00	WB	Both	8.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	19.6										
15.0	1	503+00.00	WB	Right	8.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	9.8										
16.0	1	555+90.00	WB	Right	8.0	11.0	19.0	Finish	PCC With Dowels (PR-103)	9.8										
Total	20									343.9						12				

112_07
10/20/26

RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

Line No.	Roadway Identification	Station	Side	Pavement Type	Rumble Strip Panel Type	Remarks
1.0	IA 175	3+35.00	Left	New	Rumble Strip Panel	New panel, 200' prior to Stop Ahead sign

8/24/2026 11:22:00 AM aaron.schwarz@dot.iowa.gov

RUMBLE STRIPS

* Calculated at 18" width for Shoulder.
** For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

Line No.	Road Identification	Station From	Station To	Surface Type	Rumble Strip Lane	Rumble Strip Type	Fog Seal Type	L (IN)	HMA Length (STA)	Fog Seal (SY)**	Effective Shoulder Width PCC (FT)	Effective Shoulder Width HMA (FT)	Effective Shoulder Width Granular\Earth (FT)	Remarks
1.0	IA 175	4+24.00	220+18.00	HMA	Centerline	Milled Centerline Rumble Strips	Penetrating Engineered	12"	215.94	2799.2				
2.0	IA 175	280+21.00	452+00.00	HMA	Centerline	Milled Centerline Rumble Strips	Penetrating Engineered	12"	171.79	2227.5				
3.0	IA 175	456+00.00	662+22.00	HMA	Centerline	Milled Centerline Rumble Strips	Penetrating Engineered	12"	206.22	2673.9				
4.0	IA 175	667+02.00	673+55.00	HMA	Centerline	Milled Centerline Rumble Strips	Penetrating Engineered	12"	6.53	84.6				
5.0	IA 175	676+70.00	690+00.00	HMA	Centerline	Milled Centerline Rumble Strips	Penetrating Engineered	12"	13.30	172.4				
Total									613.78	7957.6				

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 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY6 Factored (STA)	CHW10 Factored (STA)	DCY6 Factored (STA)	ELW6 Factored (STA)	NPY6** Factored (STA)	SLW2 Factored (STA)	Remarks
1.0	IA 175	4+24.00	6+16.00	Both	Waterborne/Solvent Paint	X	X	X	No					3.84	2.40		Div. 01 Temp. before grooving
2.0	IA 175	6+16.00	220+18.50	Both	Waterborne/Solvent Paint	X	X	X	No		53.51			428.05			Div. 01 Temp. before grooving
8.0	IA 175	280+21.00	348+81.00	Both	Waterborne/Solvent Paint	X	X	X	No		17.15			137.20			Div. 01 Temp. before grooving
9.0	IA 175	348+81.00	355+81.00	Both	Waterborne/Solvent Paint	X	X	X	No					14.00	8.75		Div. 01 Temp. before grooving
10.0	IA 175	355+81.00	358+11.00	Both	Waterborne/Solvent Paint	X	X	X	No		0.57			4.60			Div. 01 Temp. before grooving
11.0	IA 175	358+11.00	364+36.00	Both	Waterborne/Solvent Paint	X	X	X	No					12.50	7.81		Div. 01 Temp. before grooving
12.0	IA 175	364+36.00	446+01.00	Both	Waterborne/Solvent Paint	X	X	X	No		20.41			163.30			Div. 01 Temp. before grooving
13.0	IA 175	446+01.00	452+88.00	Both	Waterborne/Solvent Paint	X	X	X	No					13.74	8.59		Div. 01 Temp. before grooving
14.0	IA 175	452+88.00	456+10.00	Both	Waterborne/Solvent Paint	X	X	X	No				6.44	6.44			Div. 01 Temp. before grooving
15.0	IA 175	456+10.00	463+37.00	Both	Waterborne/Solvent Paint	X	X	X	No					14.54	9.09		Div. 01 Temp. before grooving
16.0	IA 175	463+37.00	690+00.00	Both	Waterborne/Solvent Paint	X	X	X	No		56.66			453.26			Div. 01 Temp. before grooving
Total										0.00	148.30	0.00	6.44	1251.47	36.64	0.00	
Remarks : Div. 01 Temp. before grooving																	
3.0	IA 175	220+18.50	246+93.00	Both	Waterborne/Solvent Paint	X	X	X	No		6.69			53.50			Div. 02 Temp. before grooving
4.0	IA 175	246+93.00	257+48.00	Both	Waterborne/Solvent Paint	X	X	X	No					21.10	13.19		Div. 02 Temp. before grooving
5.0	IA 175	257+48.00	261+45.00	Both	Waterborne/Solvent Paint	X	X	X	No				7.94	7.94			Div. 02 Temp. before grooving
6.0	IA 175	261+45.00	271+63.00	Both	Waterborne/Solvent Paint	X	X	X	No					20.36	12.73		Div. 02 Temp. before grooving
7.0	IA 175	271+63.00	280+21.00	Both	Waterborne/Solvent Paint	X	X	X	No		2.15			17.16			Div. 02 Temp. before grooving
Total										0.00	8.84	0.00	7.94	120.06	25.92	0.00	
Remarks : Div. 02 Temp. before grooving																	
17.0	IA 175	+30.00	+51.00	Left	Thermoplastic	X			Yes	3.58		0.83				1.92	Div. 1 Permanent
18.0	IA 175	4+24.00	6+16.00	Both	Waterborne/Solvent Paint		X		No						2.40		Div. 1 Permanent
19.0	IA 175	4+24.00	6+16.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	3.84				3.84			Div. 1 Permanent
20.0	IA 175	6+16.00	220+18.50	Both	Waterborne/Solvent Paint		X		No		53.51						Div. 1 Permanent
21.0	IA 175	6+16.00	220+18.50	Both	Waterborne/Solvent Paint	X	X	X	Yes	428.05				428.05			Div. 1 Permanent
32.0	IA 175	280+21.00	348+81.00	Both	Waterborne/Solvent Paint		X		No		17.15						Div. 1 Permanent
33.0	IA 175	280+21.00	348+81.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	137.20				137.20			Div. 1 Permanent
34.0	IA 175	348+81.00	355+81.00	Both	Waterborne/Solvent Paint		X		No						8.75		Div. 1 Permanent
35.0	IA 175	348+81.00	355+81.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	14.00				14.00			Div. 1 Permanent
36.0	IA 175	355+81.00	358+11.00	Both	Waterborne/Solvent Paint		X		No		0.57						Div. 1 Permanent
37.0	IA 175	355+81.00	358+11.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	4.60				4.60			Div. 1 Permanent
38.0	IA 175	358+11.00	364+36.00	Both	Waterborne/Solvent Paint		X		No						7.81		Div. 1 Permanent
39.0	IA 175	358+11.00	364+36.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	12.50				12.50			Div. 1 Permanent
40.0	IA 175	364+36.00	446+01.00	Both	Waterborne/Solvent Paint		X		No		20.41						Div. 1 Permanent
41.0	IA 175	364+36.00	446+01.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	163.30				163.30			Div. 1 Permanent
42.0	IA 175	446+01.00	452+88.00	Both	Waterborne/Solvent Paint		X		No						8.59		Div. 1 Permanent
43.0	IA 175	446+01.00	452+88.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	13.74				13.74			Div. 1 Permanent
44.0	IA 175	452+88.00	456+10.00	Both	Waterborne/Solvent Paint		X		No				6.44				Div. 1 Permanent
45.0	IA 175	452+88.00	456+10.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	6.44				6.44			Div. 1 Permanent

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 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY6 Factored (STA)	CHW10 Factored (STA)	DCY6 Factored (STA)	ELW6 Factored (STA)	NPY6** Factored (STA)	SLW2 Factored (STA)	Remarks
46.0	IA 175	456+10.00	463+37.00	Both	Waterborne/Solvent Paint		X		No						9.09		Div. 1 Permanent
47.0	IA 175	456+10.00	463+37.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	14.54				14.54			Div. 1 Permanent
48.0	IA 175	463+37.00	690+00.00	Both	Waterborne/Solvent Paint		X		No		56.66						Div. 1 Permanent
49.0	IA 175	463+37.00	690+00.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	453.26				453.26			Div. 1 Permanent
Total										1255.05	148.30	0.83	6.44	1251.47	36.64	1.92	
Remarks : Div. 1 Permanent																	
22.0	IA 175	220+18.50	246+93.00	Both	Waterborne/Solvent Paint		X		No		6.69						Div. 2 Permanent
23.0	IA 175	220+18.50	246+93.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	53.50				53.50			Div. 2 Permanent
24.0	IA 175	246+93.00	257+48.00	Both	Waterborne/Solvent Paint		X		No						13.19		Div. 2 Permanent
25.0	IA 175	246+93.00	257+48.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	21.10				21.10			Div. 2 Permanent
26.0	IA 175	257+48.00	261+45.00	Both	Waterborne/Solvent Paint		X		No				7.94				Div. 2 Permanent
27.0	IA 175	257+48.00	261+45.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	7.94				7.94			Div. 2 Permanent
28.0	IA 175	261+45.00	271+63.00	Both	Waterborne/Solvent Paint		X		No						12.73		Div. 2 Permanent
29.0	IA 175	261+45.00	271+63.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	20.36				20.36			Div. 2 Permanent
30.0	IA 175	271+63.00	280+21.00	Both	Waterborne/Solvent Paint		X		No		19.30						Div. 2 Permanent
31.0	IA 175	271+63.00	280+21.00	Both	Waterborne/Solvent Paint	X	X	X	Yes	154.36				154.36			Div. 2 Permanent
Total										257.26	25.99	0.00	7.94	257.26	25.92	0.00	
Remarks : Div. 2 Permanent																	
Grand Totals										1512.31	331.43	0.83	28.76	2880.26	125.12	1.92	

101_10
1/17/24

PAINTED ISLANDS

Refer to PM-110, 560-5, and 108-22.

Offsets are located from mainline.

Line No.	Road Identification	Point A Station	Point A Offset (FT)	Point B Station	Point B Offset (FT)	Point C Station	Point C Offset (FT)	Remarks
1.0	IA 175	+30.64	13.4	+31.59	26.8	+51.28	13.4	See Sheet U.1

8/24/2026 11:22:00 AM aaron.schwarz@dot.iowa.gov

108_13A
3/27/25

SAFETY CLOSURES

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
2+00.00	1		Begin construction
238+00.00	1		S. of Castana SCL
268+00.00	1		N. of Castana NCL
700+00.00	1		End construction
Total	4		

8/24/2026 11:22:00 AM aaron.schwarz@dot.iowa.gov

232_03A
9/28/22

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area **as follows:**

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

232_03B
9/28/22

EROSION CONTROL (URBAN SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the Contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,4 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will not be paid for separately.

232_11
6/21/23

EROSION CONTROL (STABILIZING CROP SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

If outside of permanent seeding dates in Section 2601 of the Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and

232_11
6/21/23

EROSION CONTROL (STABILIZING CROP SEEDING)

mulch are incidental to mobilization and will will not be paid for separately.

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, except as noted below.

2. From the beginning of the Scrub Seal operation until placed, through traffic at the intersection of IA 37 to Main Street in Mapleton will be detoured. See detour routes on Sheets A.3 and detour signing layout on Sheet J.5 for additional information. The Contractor shall place and maintain the detour signs for this project.

3. Traffic from the end of project to Main Street in Mapleton will be maintained on the project at all times.

4. Traffic control on this project shall be found in accordance with the TC series of Standard Road Plans found in Tabulation 105-4 and/or appropriate Detail Sheets included in the plans. For additional complementary information, refer to part VI of the Manual on Uniform Traffic Control Devices and the current Standard Specifications.

5. The contractor shall coordinate traffic control with other projects in the area.

6. Contractor shall notify the Engineer 14 days prior to start of the detour.

511 TRAVEL RESTRICTIONS

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
1.0	IA 175	NB	Monona	IA 37 to Mapleton		Traffic Control Device		Horizontal	N/A	22	N/A	N/A	
2.0	IA 175	EB	Monona	0.7 Mi. W. of Castana	Drainage Ditch	Traffic Control Device	FHWA 603580	Horizontal	N/A	22	N/A	N/A	
3.0	IA 175	EB	Monona	0.1 Mi. E. of Castana	Drainage Ditch	Traffic Control Device	FHWA 603590	Horizontal	N/A	22	N/A	N/A	
4.0	IA 175	EB	Monona	0.5 Mi. E. of Castana	Drainage Ditch	Traffic Control Device	FHWA 603600	Horizontal	N/A	22	N/A	N/A	
5.0	IA 175	EB	Monona	2.2 Mi. E. of Castana	Drainage Ditch	Traffic Control Device	FHWA 603610	Horizontal	N/A	22	N/A	N/A	
6.0	IA 175	EB	Monona	3.3 Mi. E. of Castana	Maple River	Barrier	FHWA 37031	Horizontal	N/A	43	N/A	N/A	
7.0	IA 175	EB	Monona	3.7 Mi. E. of Castana	Drainage Ditch	Traffic Control Device	FHWA 37051	Horizontal	N/A	22	N/A	N/A	
8.0	IA 175	EB	Monona	3.3 Mi. W. of Mapleton	Drainage Ditch	Traffic Control Device	FHWA 37061	Horizontal	N/A	22	N/A	N/A	
9.0	IA 175	EB	Monona	1.2 Mi. W. of Mapleton	Drainage Ditch	Traffic Control Device	FHWA 37071	Horizontal	N/A	22	N/A	N/A	
10.0	IA 175	EB	Monona	0.5 Mi. W. of Mapleton	Maple River	Barrier	FHWA 37081	Horizontal	N/A	26	N/A	N/A	
11.0	IA 175	EB	Monona	0.4 Mi. W. of Mapleton	Mucky Creek	Barrier	FHWA 37091	Horizontal	N/A	44	N/A	N/A	

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
None	

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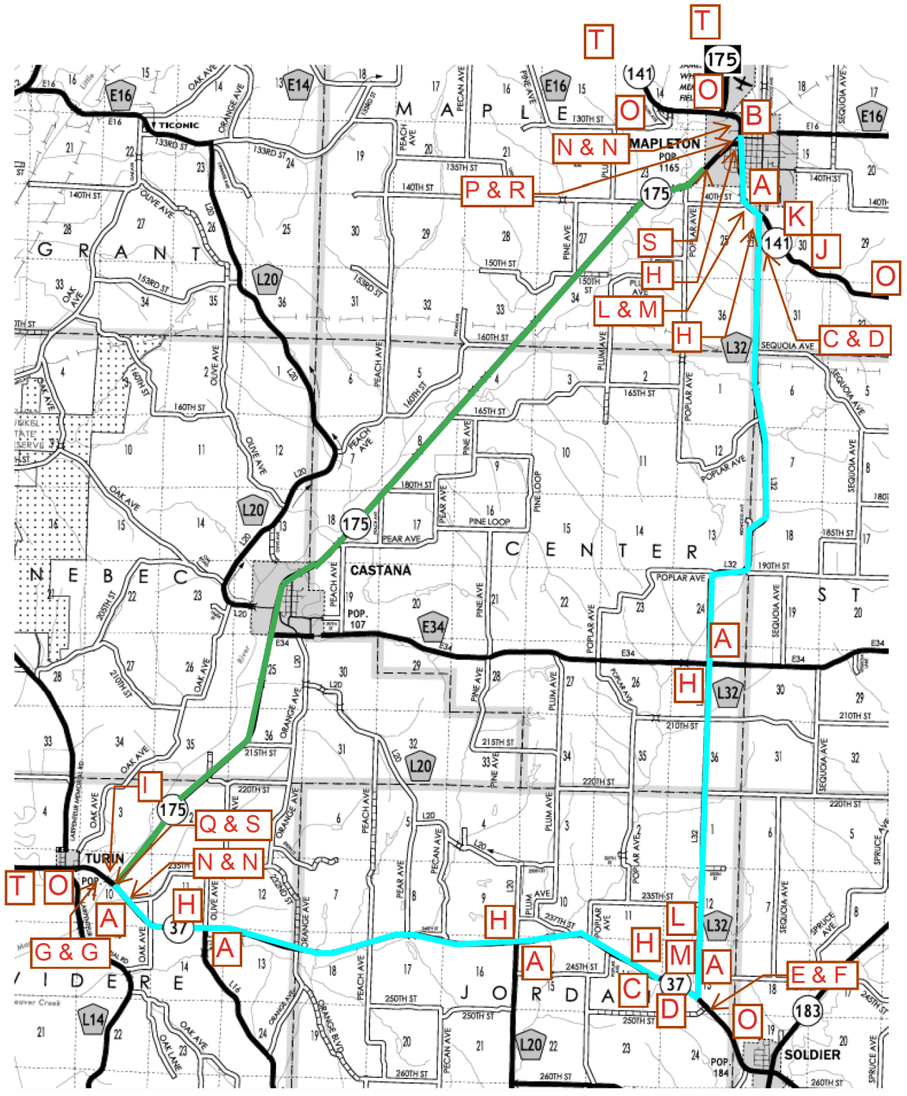
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8/15/22

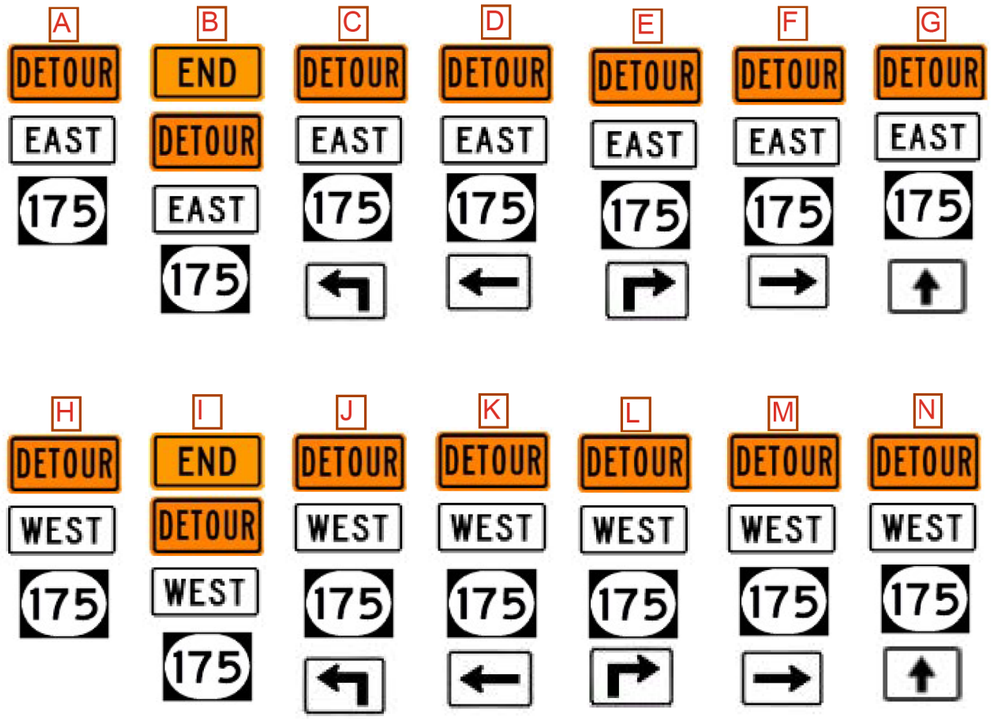
STAGING NOTES

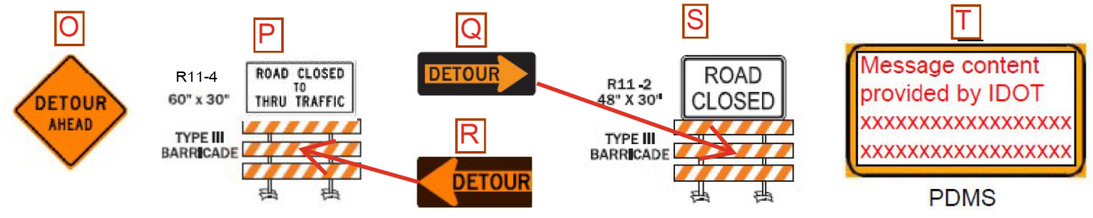
Stage 1: Patching, spot mill and resurfacing.

Stage 2: Detour, scrub seal, paint, grooving, rumble strips.

Stage 3: Final paint.







Sign	MUTCD	Size	#
Detour	M4-8	24x12	32
East	M3-2	24x12	15
West	M3-4	24x12	17
End	M4-8B	24x12	2
IA 175 Shield	M1-6C	30x24	32
Advance Turn Arrow Left 90	M5-1B	21x15	3
Single Left Arrow	M6-1	21x15	3
Advance Turn Arrow Right 90	M5-1	21x15	3
Single Right Arrow	M6-1	21x15	3
Straight Up Arrow	M6-3	21x15	6
Detour on Right Arrow	M4-10R	48x18	1
Detour on Left Arrow	M4-10L	48x18	1
Road Closed	R11-2	48x30	2
Road Closed To Thru Traffic	R11-4	60x30	1
Type III Barricades	N/A	N/A	3
Detour Ahead	W20-2	48x48	5
PDMS	N/A	N/A	3

Detour Route

Project Closure

All detour signing to be fabricated, installed, maintained and removed by Contractor - all conflicting signing should be covered during duration of detour usage. Care should be taken to not block visibility of other signing while installing temporary detour signing. Spacing needs to be maintained based on MUTCD requirements.

FILE NO.	ENGLISH	DESIGN TEAM **DISTRICT 3**	**MONONA** COUNTY	PROJECT NUMBER **STPN-175-1(119)--2J-67**	SHEET NUMBER **J.5**

9:47:23 AM 8/11/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_J01.dgn



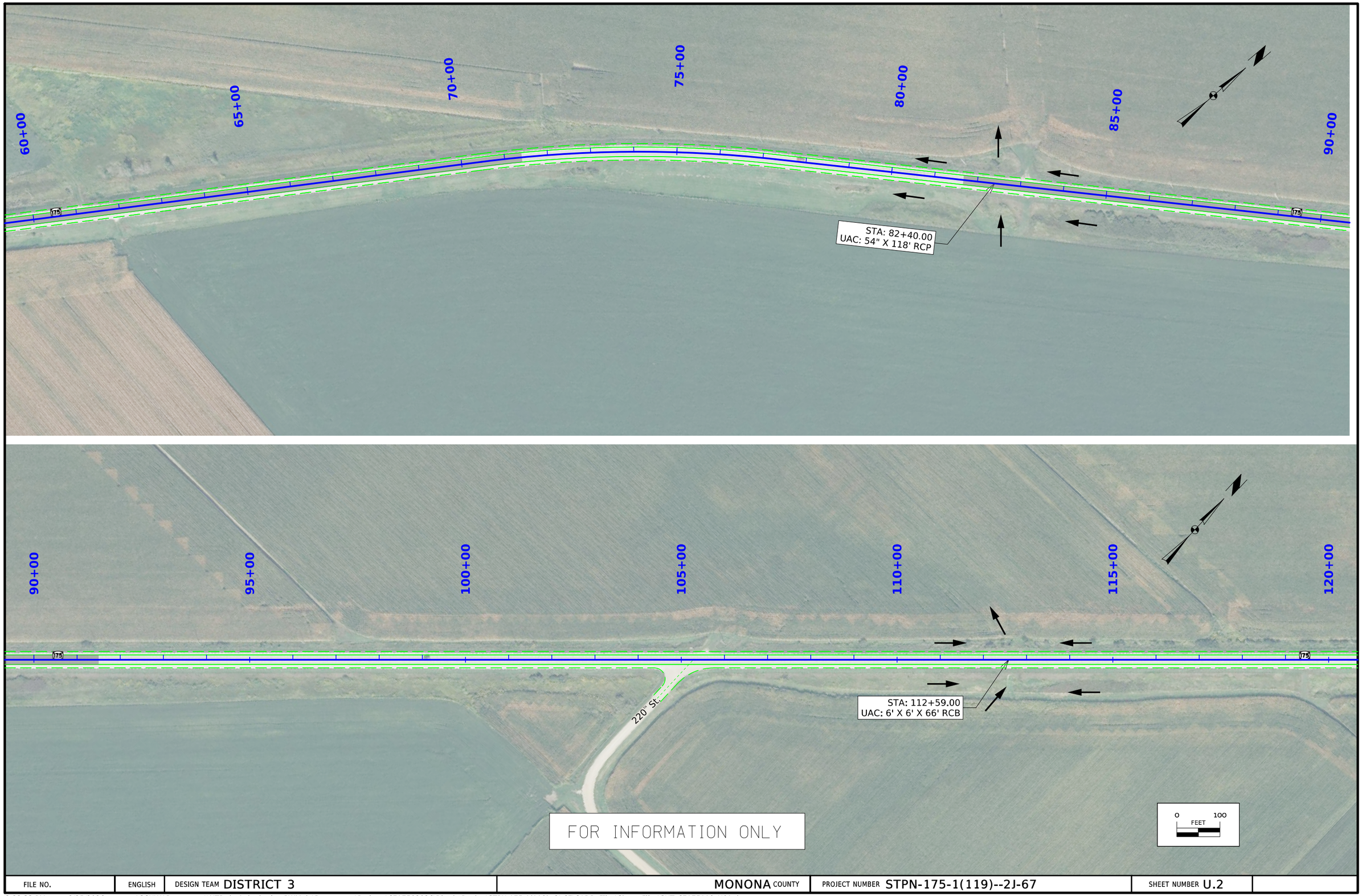
PLAN VIEW - AERIAL

FOR INFORMATION ONLY

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.1

2:20:24 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_U01.dgn

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FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.2

2:22:33 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_U01.dgn

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FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.3	

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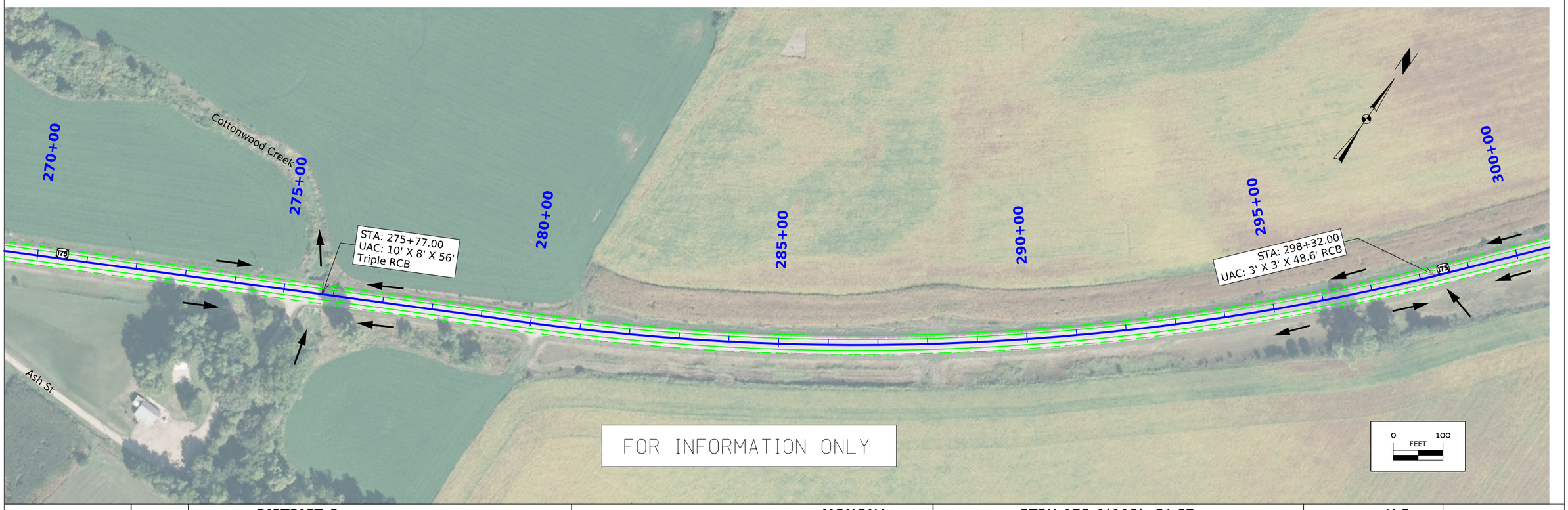


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FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.5

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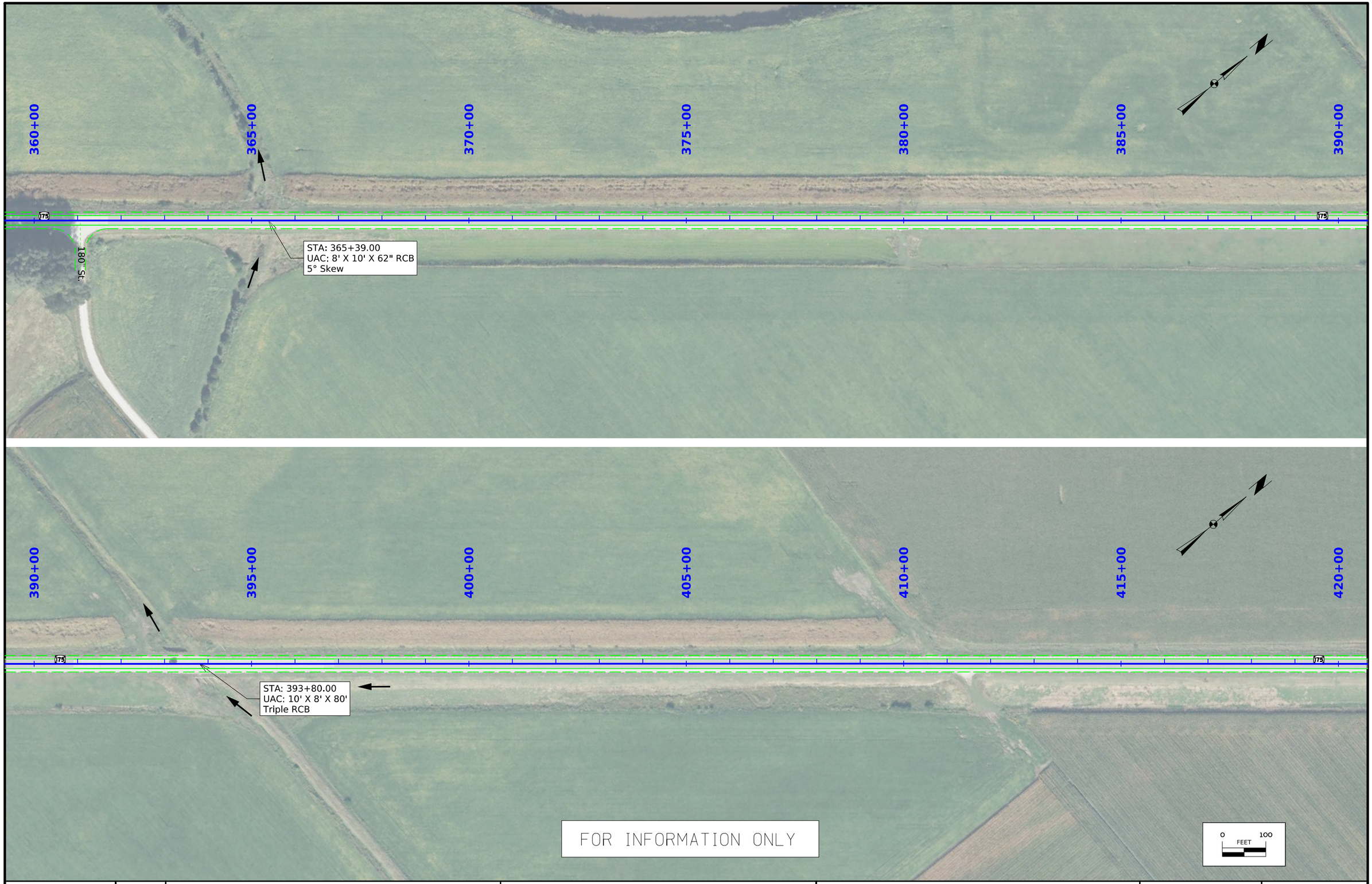
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FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.7

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FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.8	

2:21:16 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_U01.dgn

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480+00
485+00
490+00
495+00
500+00
505+00
510+00
160th St
175
175
N

510+00
515+00
520+00
525+00
530+00
535+00
540+00
175
175
N

STA: 521+80.00
UAC: 12' X 10' X 73'
Twin RCB
5° Skew

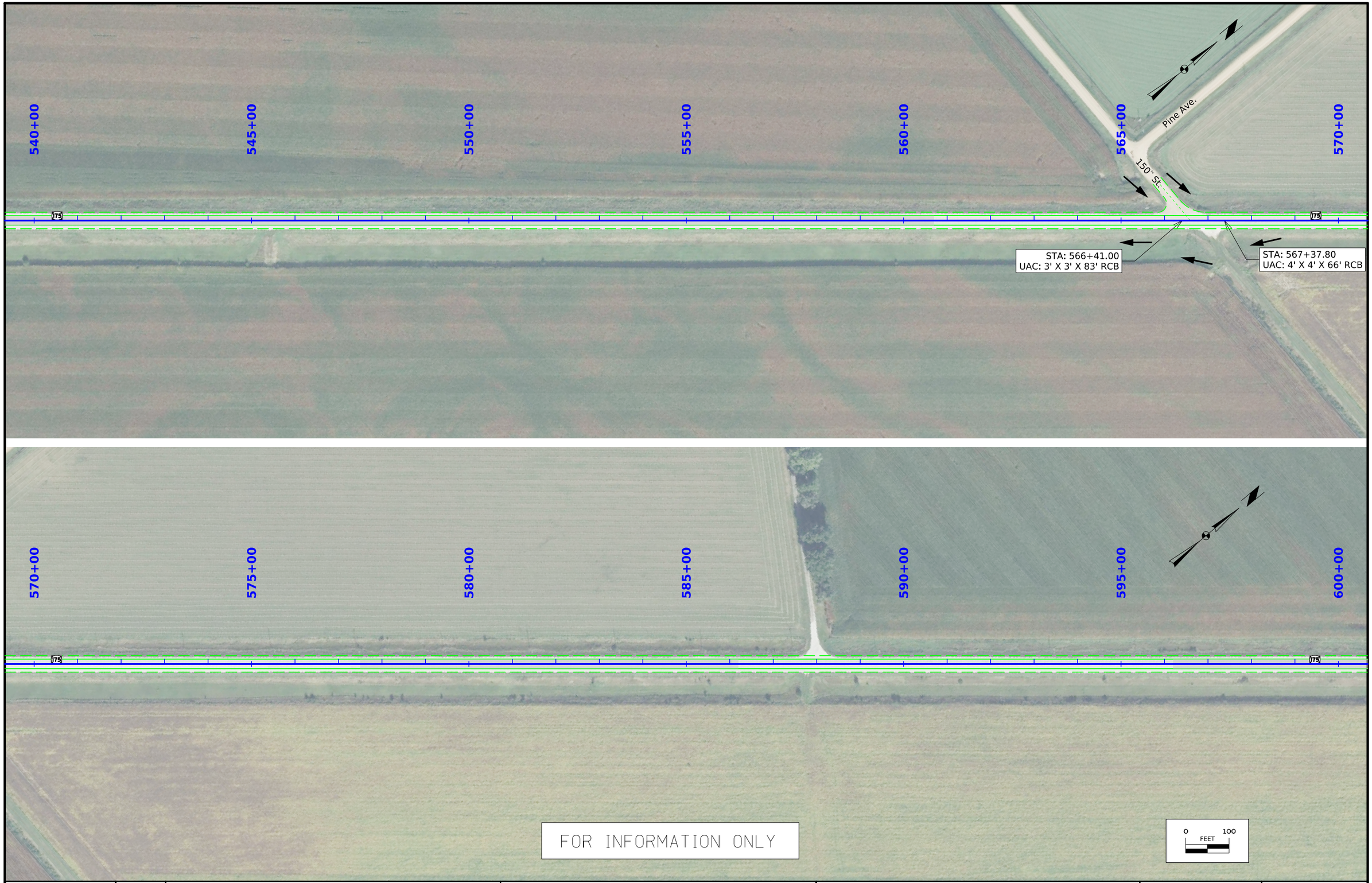
FOR INFORMATION ONLY

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600+00
605+00
610+00
615+00
620+00
625+00
630+00

STA: 612+78.00
UAC: 16' X12' Tapered Inlet
to 12' X10' RCB

STA: 626+26.00
UAC: 30'-0 X 44' CCS Bridge

635+00
640+00
645+00
650+00
655+00

140th St.

STA: 636+67.00
UAC: 10' Conc. Slab Culv.

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0 100
FEET

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	MONONA COUNTY	PROJECT NUMBER STPN-175-1(119)--2J-67	SHEET NUMBER U.11

2:22:04 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_U01.dgn

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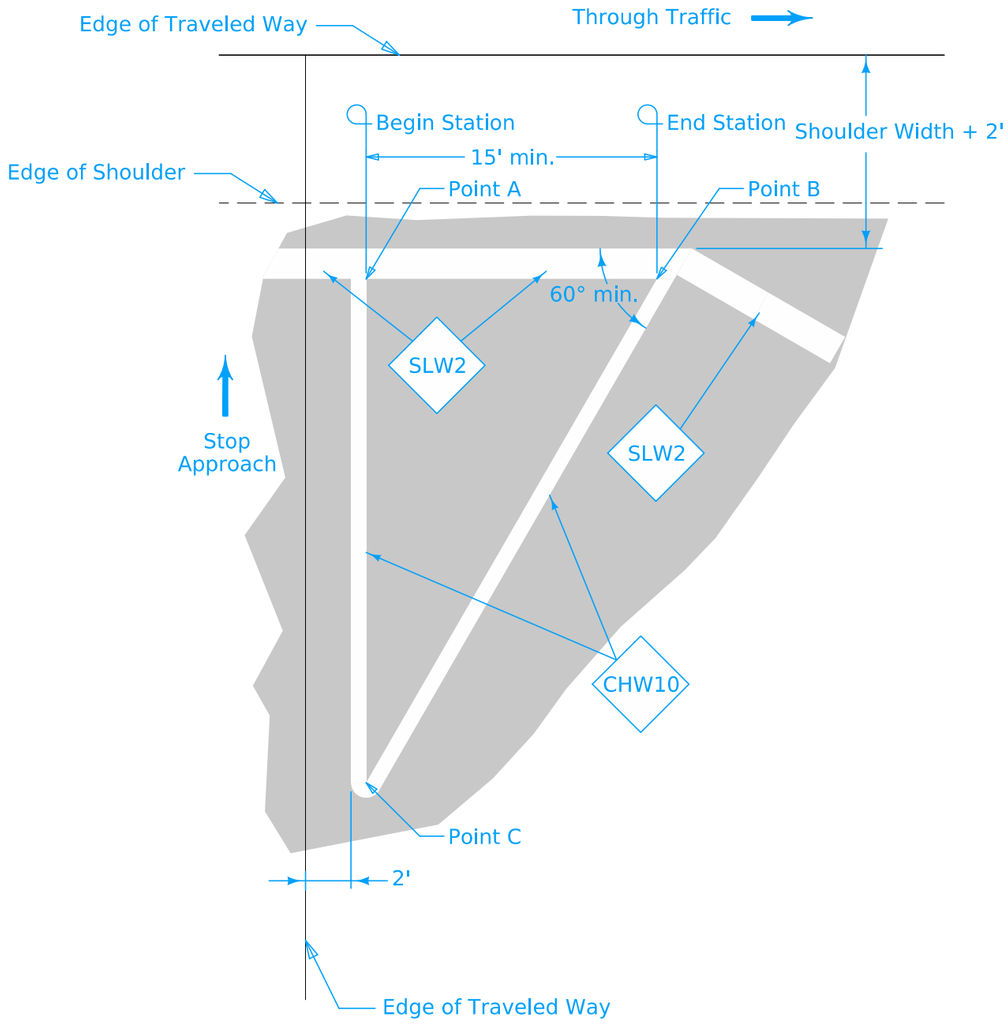
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For pavement marking line types, see PM-110.

For stop line information, see PM-120.



Possible Contract Item:
Pavement Marking Line Items

Possible Tabulations:
101-10
108-22

IOWA DOT

REVISION
2 | 10-21-25

ROAD DESIGN DETAIL

560-05

SHEET 1 of 1

REVISIONS: Changed CHW8 to CHW10

PAINTED ISLANDS

FILE NO.	ENGLISH	DESIGN TEAM **DISTRICT 3**	**MONONA** COUNTY	PROJECT NUMBER **STPN-175-1(119)--2J-67**	SHEET NUMBER **U.13**

2:10:14 PM 8/25/2026 ASCHWAR pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6717502026\DistrictDesign\STPN-175-1(119)--2J-67\CADD_Files\Sheet_Files\SHT_67175119_U02.dgn