Letting Date DECEMBER 15, 2026

WOODBURY COUNTY

PROJECT NO: FM-C097(157)--55-97

HMA RESURFACING AND COLD-IN-PLACE RECYCLING

TOTAL SHEETS - 13

Project Number: FM-C097(157)--55-97

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IOWA DEPARTMENT OF TRANSPORTATION

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

FARM-TO-MARKET SYSTEM

WOODBURY COUNTY

HMA RESURFACING/ COLD-IN-PLACE RECYCLING

PROJECT NO. FM-C097(157)--55-97

REFER TO THE PROPOSAL FOR LIST OF APPLICABLE SPECIFICATIONS

On L 27, from D 50 S 6 miles to D 54

INDEX OF SHEETS

No.	Description
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES AND REFERENCE INFORMATION
3	GENERAL NOTES, TABULATIONS, AND TYPICAL DETAILS
4	TYPICAL DETAILS
5–13	INTERSECTION DETAILS

ROAD STANDARD PLANS

The following Standard Plans shall be considered applicable to construction work on this project.

Identification	Date	Identification	Date	Identification	Date
PM–110	10–15–24				
PM–120	10–15–24				
PV–10	10–20–26				
TC–252	10–21–25				

MILEAGE SUMMARY

DIV.	LOCATION	LIN. FT.	MILES
1	STA. 0+22.0 TO 324+12.0	32,390.0	
1	DEDUCT BRIDGE STA 293+59.7	–400	
1	TOTAL LENGTH OF DIV. 1	31,990	6.059

TABULATION OF UTILITIES

NO UTILITIES ARE EXPECTED TO BE ENCOUNTERED OR MOVED BUT CONTRACTOR SHALL DO ONE CALL 30 DAYS PRIOR TO CONSTRUCTION

TRAFFIC CONTROL PLAN

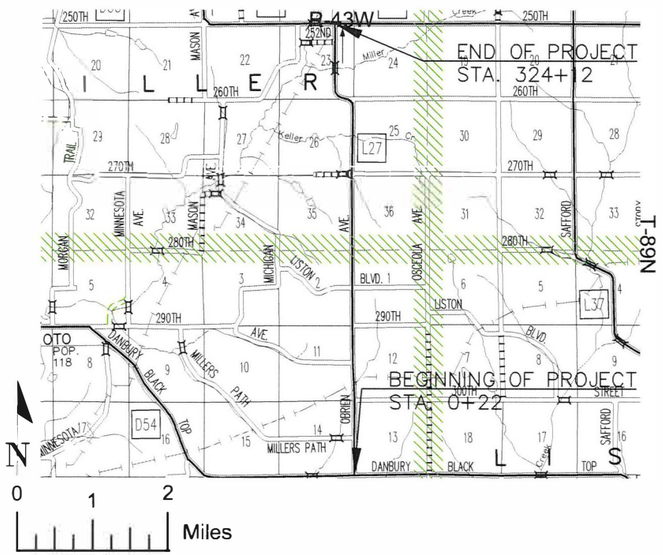
THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08 OF THE CURRENT STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, AND SIGNING INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL 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.

ALL SAFETY CLOSURES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

MAINTENANCE OF SIGNS, BARRICADES AND SAFETY CLOSURES AS STATED IN ARTICLE 1107.09 SHALL APPLY ON THIS PROJECT.

ROAD CLOSURES ON THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH ROAD STANDARD TC–252. NO PEDESTRIAN FACILITIES ARE PRESENT.

WOODBURY COUNTY WILL ESTABLISH AND MAINTAIN THE DETOUR ROUTE.



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.

LICENSED PROFESSIONAL ENGINEER
LAURA M. SIEVERS
19243
IOWA

Laura M Sievers Date 9/8/26

Iowa Registration Number 19243
Expiration Date 12/31/2026

Pages or sheets covered by this seal:
Pages 1–12

2023 AADT 110 V.P.D.

Approved
Board of Supervisors

ESTIMATED QUANTITIES

No.	ITEM CODE	ITEM	UNIT	TOTAL	ESTIMATE REFERENCE NOTES
1.	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CU. YDS.	262	INCLUDES THE CORE OUT OF INTERSECTING ROADS AT STA.310+90, STA. 265+57 RT, STA. 260+17 RT, STA. 211+38 RT AND LT, STA 131+60 RT AND LT, STA. 105+30 RT, STA. 79+00 LT, STA. 53+00 RT, AND STA. 26+60 LT. ALL EXCESS MATERIAL SHALL BE HAULED OFF THE PROJECT AND DISPOSED OF BY THE CONTRACTOR. PAYMENT SHALL BE BY PLAN QUANTITY. FILLET DIMENSIONS SHOWN ON SHEETS 5–13 ARE FOR ESTIMATING ONLY AND SHALL BE ADJUSTED TO MATCH EXISTING CONDITIONS.
2.	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	5,124	PLACEMENT SHALL BE ADJUSTED TO MATCH THE EXISTING SHOULDER WIDTH ALONG THE LENGTH OF THE PROJECT. ITEM INCLUDES THE ENTIRE LENGTH OF THE PROJECT, INCLUDING THE INTERSECTION RADIUS AND ALL DRIVEWAYS. SHOULDERS ARE CALCULATED AT A WIDTH AND DEPTH SHOWN ON THE TYPICAL ON SHEET 4. THE MATERIAL SHALL BE COMPACTED WITH A SMOOTH STEEL DRUM ROLLER. SHALL INCLUDE A MINIMUM OF 50% RECLAIMED HMA MILLINGS FROM THE TIED D 38 PROJECT. THE HMA MATERIAL SHALL PASS A 2" SCREEN
3.	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE 1/2 IN. MIX	TON	8,058	ASPHALTIC CEMENT SHALL BE GRADE PG 58–34S FOR THIS MIXTURE PER SECTION 1303. ASPHALTIC CEMENT TOTALS ARE BASED ON 6.00% BINDER CONTENT. FINAL DETERMINATION TO BE BASED ON MIX DESIGN. THIS MIXTURE MAY INCLUDE RECYCLED MATERIAL. INCLUDES MATERIAL FOR INTERSECTION FILLETS AND DRIVEWAYS. MATERIAL SHALL BE PLACED IN 1 – 1½" LIFT IN THE ROADWAY AND 2 – 2" LIFTS FOR NEW FILLETS. CERTIFIED PLANT INSPECTION SHALL APPLY
4.	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE C0URSE, 1/2 IN. MIX NO SPECIAL FRICTION REQUIREMENT	TON	7,403	ASPHALTIC CEMENT SHALL BE GRADE PG 58–34S FOR THIS MIXTURE PER SECTION 1303. ASPHALTIC CEMENT TOTALS ARE BASED ON 6.00% BINDER CONTENT. FINAL DETERMINATION TO BE BASED ON MIX DESIGN. THIS MIXTURE SHALL NOT INCLUDE RECYCLED MATERIAL. INCLUDES MATERIAL FOR INTERSECTION FILLETS AND DRIVEWAYS. MATERIAL SHALL BE PLACED IN 1 – 1½" LIFT IN THE ROADWAY AND NEW FILLETS. CERTIFIED PLANT INSPECTION SHALL APPLY.
5.	2303-1258343	ASPHALT BINDER, PG 58-34S, STANDARD TRAFFIC	TON	927	ITEM INTENDED FOR USE WITH BID ITEMS 4 AND 5.
6.	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LUMP SUM	1	
7.	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISCENTIVE FOR HMA MIXTURE LAB VOIDS (FORMULA-BY PAY FACTOR)	EACH	15,461	
8.	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA-BY PAY FACTOR)	EACH	15,461	
9.	2303-9091010	RUMBLE STRIP PANEL (HMA SURFACE)	EACH	4	RUMBLE STRIPS SHALL BE ADDED AT STA. 8+02, STA. 12+51, STA. 312+56, AND STA. 316+83. METHOD OF MEASUREMENT AND BASIS OF PAYMENT IS BY COUNT FOR EACH PANEL.
10.	2318-1001100	COLD-IN-PLACE RECYCLED ASPHALT PAVEMENT	SQ. YDS.	78,198	COLD–IN–PLACE SHALL BE CONDUCTED ON 3" OF THE EXISTING PAVEMENT. WORK SHALL BE ACCOMPLISHED BY MILLING, INJECTION, PLACING, AND COMPACTING. A FLOATING SCREED ATTACHED TO THE RECYCLING MACHINE WILL NOT BE ALLOWED. ALL BLADING OR DEBRIS/VEGITATION REMOVAL SHALL BE INCIDENTAL TO THIS ITEM.
11.	2318-1001220	ASPAHLT STABILIZING AGENT (FOAMED ASPHALT)	TON	258	SHALL BE FOAMED ASPHALT PG 52–34 AT THE APPLICATION RATE OF 0.0011 (TONS/YD2/IN).
12.	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA'S	733.03	SEE TABULATION ON SHEET 3.
13	2528-2518000	SAFETY CLOSURE	EACH	13	ROAD SHALL BE CLOSED ONLY DURING ACTIVE WORK OPERATIONS
14.	2528-8445110	TRAFFIC CONTROL	LUMP SUM	1	
15.	2533-4980005	MOBILIZATION	LUMP SUM	1	

WOODBURY COUNTY
ENGINEERS OFFICE

JSG DRAWN BY:
JSG DESIGNED BY:
LMS APPROVED BY:
DATE: REVISION DATE:

PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING

SHEET DESCRIPTION: ESTIMATE OF QUANTITIES AND REFERENCE INFORMATION

PROJECT NO.
FM-CO97(157)–55-97

SHEET
2

GENERAL NOTES

CLEAN AND PREPARE SCARIFIED H.M.A. BASE IN ACCORDANCE WITH SECTION 2212.

THIS PROJECT WILL BE A QMA PROJECT IN ACCORDANCE WITH STANDARD SPECS. CONTRACTOR WILL SUBMIT TO THE COUNTY ENGINEER THE JOB MIX FORMULA AND BEGINNING AC% FOR ACCEPTANCE BEFORE ANY OPERATION INVOLVING THAT PARTICULAR JOB MIX FORMULA BEGINS.

TABULATION OF PAVEMENT MARKINGS

LOCATION	SIDE			LENGTH IN STATIONS				
				SOLID WHITE EDGE LINE	YELLOW CENTER LINE BROKEN	YELLOW CENTER LINE SOLID	STOP BAR SOLID WHITE LINE	
STATION TO STATION	LT.	CL.	RT.					
STA. 00+22 TO STA. 324+12	X			323.05				
STA. 00+22 TO STA. 324+12		X			213.41	393.16	2	
STA. 00+22 TO STA. 324+12			X	323.05				
WIDTH FACTORS				0.67	0.17	0.67	0.22	
TOTALS				432.89	36.28	263.42	0.44	733.03

TABULATION OF NEW DRIVEWAY AND FIELD ENTRANCE FILLETS

LOCATION	SIDE		LOCATION	SIDE	
STATION	LT.	RT.	STATION	LT.	RT.
16+90		X	167+27		X
73+40	X		184+64		X
143+92		X	186+03	X	
148+68		X	199+93	X	
152+83		X	298+70	X	
157+10	X				

TABULATION OF NEW MAIL BOX TURNOUTS

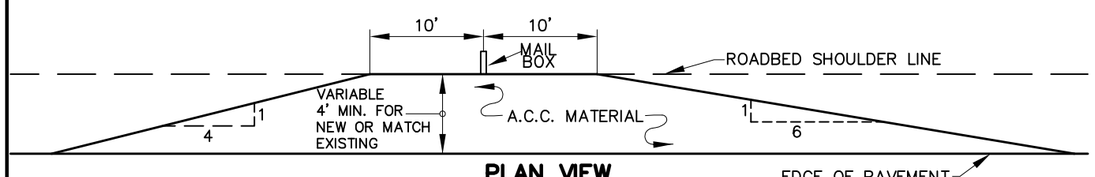
LOCATION	SIDE		LOCATION	SIDE	
STATION	LT.	RT.	STATION	LT.	RT.
95+60		X	186+33		X
149+06	X				

TABULATION OF SAFETY CLOSURES

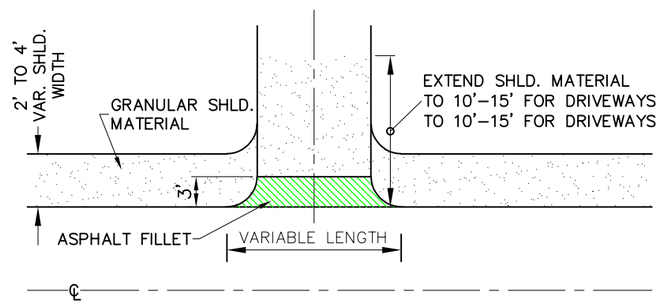
108-13A
08-01-08

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Quantity	Hazard Quantity	
00+22	1.0		
26+60	1.0		
53+00	1.0		
79+00	1.0		
105+30	1.0		
131+60	2.0		
211+38	2.0		
260+17	1.0		
265+57	1.0		
310+90	1.0		
324+12	1.0		
Totals	13.0		



PLAN VIEW
TYPICAL MAIL BOX TURNOUT



DETAILS OF NEW DRIVEWAY AND FIELD ENT. FILLET

WOODBURY COUNTY
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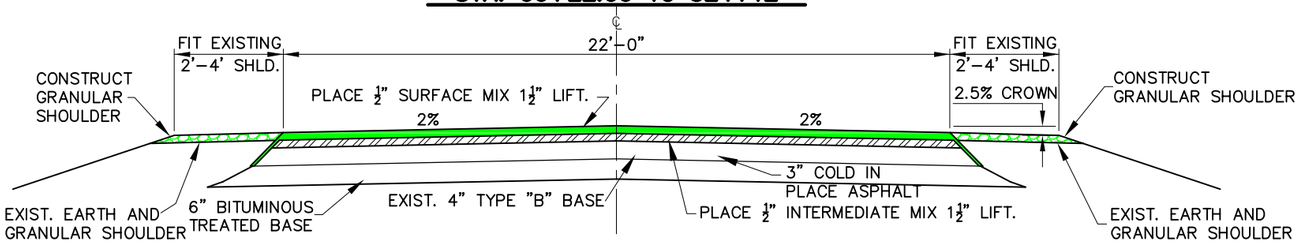
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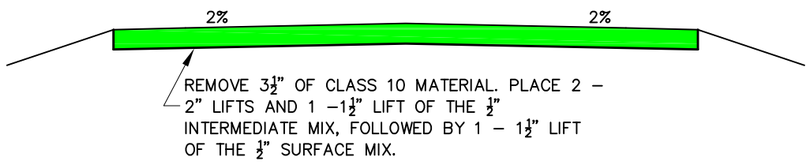
SHEET DESCRIPTION: GENERAL NOTES, TABULATIONS, AND TYPICAL DETAILS

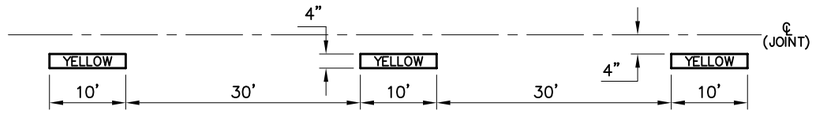
PROJECT NO.
FM-CO97(157)–55-97
SHEET
3

TYPICAL CROSS SECTION
STA. 00+22.00 TO 324+12

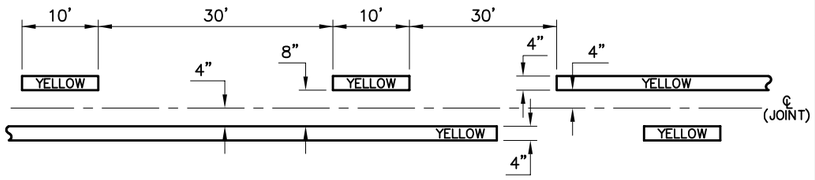


TYPICAL GRAVEL INTERSECTION PAVING

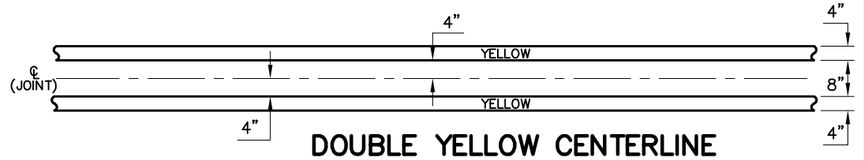




YELLOW CENTERLINE [BROKEN] ON P.C.C. SURFACE



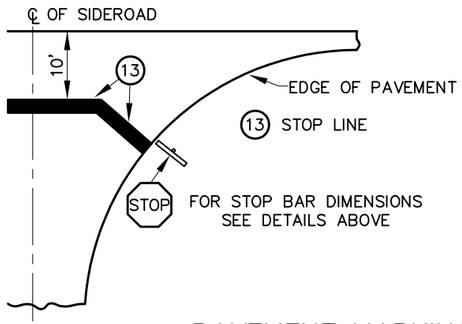
NO–PASSING ZONE LINE ON P.C.C. SURFACE



DOUBLE YELLOW CENTERLINE



WHITE EDGELINE





STOP LINE

PAVEMENT MARKINGS STOP LINE

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ENGINEERS OFFICE

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PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING

SHEET DESCRIPTION: TYPICAL DETAILS

PROJECT NO.
FM-CO97(157)–55-97
SHEET
4



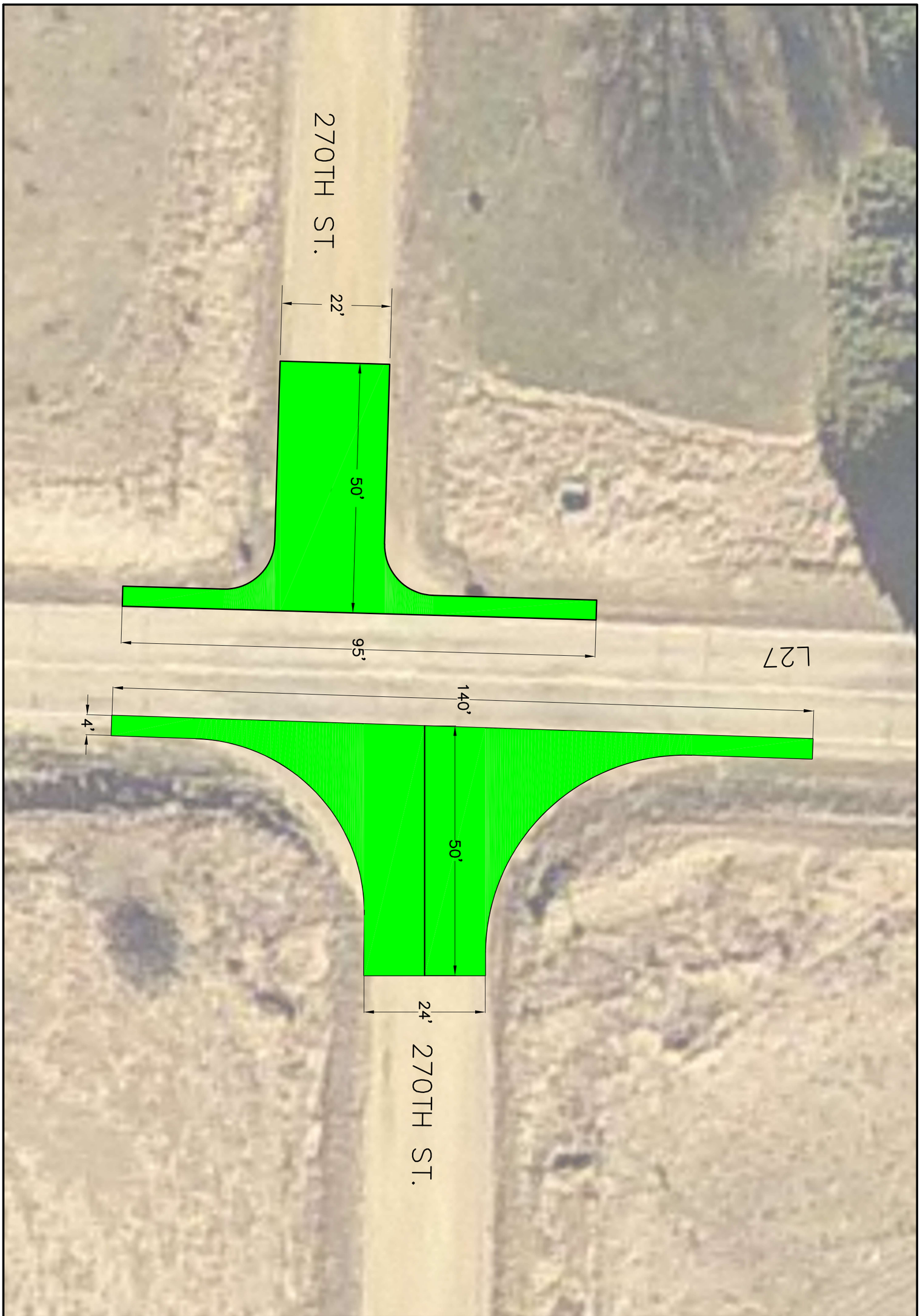
PROJECT NO. FM-C097(157)--5B-97 SHEET 5	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DRAWN BY: JSG DESIGNED BY: LMS APPROVED BY: DATE: REVISION DATE:	WOODBURY COUNTY ENGINEERS OFFICE



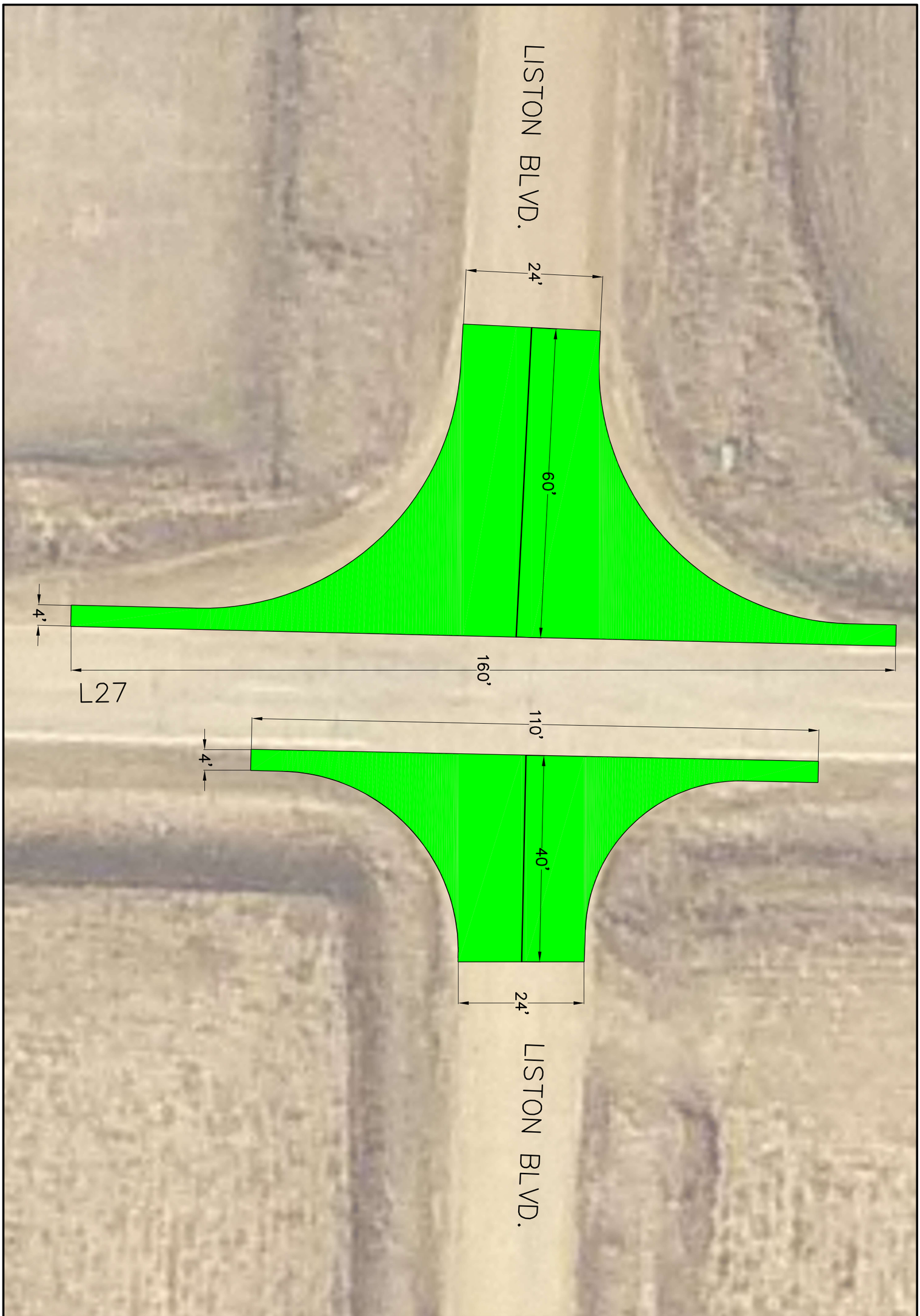
PROJECT NO. FM-C097(157)--5B-97 SHEET 6	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DRAWN BY: JSG DESIGNED BY: LMS APPROVED BY: DATE: REVISION DATE:	WOODBURY COUNTY ENGINEERS OFFICE



SHEET 7	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING	JSG DRAWN BY:	WOODBURY COUNTY
PROJECT NO. FM-C097(157)--5X-97	SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DESIGNED BY:	ENGINEERS OFFICE
		LMS APPROVED BY:	
		DATE: REVISION DATE:	



PROJECT NO. FM-C097(157)--5S-97 SHEET 8	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DRAWN BY: JSG DESIGNED BY: LMS APPROVED BY: DATE: REVISION DATE:	WOODBURY COUNTY ENGINEERS OFFICE



PROJECT NO. FM-C097(157)--5S-97

SHEET 9

PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING

SHEET DESCRIPTION: INTERSECTION DETAILS

JSG	DRAWN BY:	
JSG	DESIGNED BY:	
LMS	APPROVED BY:	
DATE:	REVISION	DATE:

WOODBURY COUNTY
ENGINEERS OFFICE



PROJECT NO. FM-C097(157)--5X-97

SHEET 10

PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING

SHEET DESCRIPTION: INTERSECTION DETAILS

JSG	DRAWN BY:	
JSG	DESIGNED BY:	
LMS	APPROVED BY:	
DATE:	REVISION	DATE:

WOODBURY COUNTY
ENGINEERS OFFICE



PROJECT NO. FM-C097(157)--5S-97	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING	JSG DRAWN BY:	WOODBURY COUNTY
SHEET 11	SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DESIGNED BY:	ENGINEERS OFFICE
		LMS APPROVED BY:	
		DATE: REVISION DATE:	



PROJECT NO. FM-C097(157)--5S-97 SHEET 12	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DRAWN BY: JSG DESIGNED BY: LMS APPROVED BY: DATE: REVISION DATE:	WOODBURY COUNTY ENGINEERS OFFICE



PROJECT NO. FM-C097(L27)--5S-97	PROJECT DESCRIPTION: L27 HMA RESURFACING AND COLD-IN-PLACE RECYCLING	JSG DRAWN BY:	WOODBURY COUNTY
SHEET 13	SHEET DESCRIPTION: INTERSECTION DETAILS	JSG DESIGNED BY:	ENGINEERS OFFICE
		LMS APPROVED BY:	
		DATE: REVISION DATE:	