O6-17-2O22 LETT*NG *TEM 2O7

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION COUNTY 55[(1.2)AS-1;3RS]:31RS-1 McDONOUGH 7

INDEX OF SHEETS

COVER SHEET

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- COMMITMENTS, GENERAL NOTES, AND PROJECT SPECIFIC NOTES
- SUMMARY OF QUANTITIES
- SCHEDULE OF QUANTITIES
- PATCHING DETAIL
- TYPICAL SECTIONS
- LINE DIAGRAM

ILLINOIS HIGHWAY STANDARDS

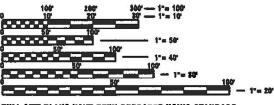
000001-08 701201-05 701400-11 701406-13

701411-09 701456-05 701901-08

DESIGN DESIGNATION

IL 336: PRINCIPAL ARTERIAL ADT: 4,200 (2019)

SU: 275 MU: 625



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZEO PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

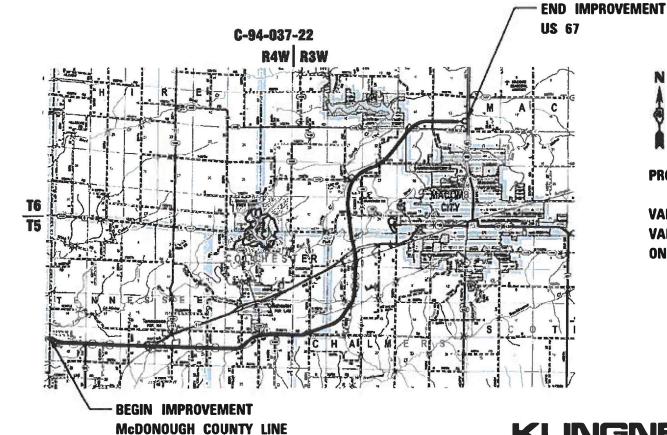
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: BEN TELLEFSON (309) 671-3333 PROJECT MANAGER: WILL MOSER (309) 671-3333

CATALOG NO. 036311-00D CONTRACT NO. 68H03

PROPOSED HIGHWAY PLANS

FAP ROUTE 407/315A (IL 336/IL 110/US 136) SECTION (55-1)RS-1;31RS-3;24RS-5 **CONTRACT MAINTENANCE** McDONOUGH COUNTY



1/29/21

DATE

REGISTERED PROFESSIONAL ENGINEER **STATE OF ILLINOIS NO. 062-060864** LICENSE EXPIRES NOVEMBER 30, 2023

MARK C. LEE

GROSS LENGTH = 90.816.00 FT. = 17.20 MILE HET LENGTH = 90,816.00 FT. = 17.20 MILE

KLINGNER & ASSOCIATES, P.C.

Engineers · Architects · Surveyors

Galesburg, Illinois **DESIGN FIRM NO. 184-2738** LOCATION OF SECTION INDICATED THUS: -

D-94-022-22

PROJECT DESCRIPTION:

VARIABLE DEPTH HMA MILLING AND HMA PAVING AT VARIOUS LOCATIONS TO CORRECT THE PAVEMENT PROFILE ON IL 336 FROM McDONOUGH COUNTY LINE TO US 67.



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COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

NO COMMITMENTS HAVE BEEN MADE ON THIS PROJECT.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND /OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCE REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM-D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

JOB SPECIFICATIONS

- FLAGGERS, WHEN SHOWN, SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL STANDARD PAY ITEMS.
- 2. TWO CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE PROJECT. ONE PER EACH DIRECTION OF TRAVEL ON IL 336 ONE WEEK PRIOR TO CONSTRUCTION.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MAINLINE
SURFACE
SBS 76-28
4% N70
POLYMERIZED IL 9.5
MIX D
112.0 LB/SY/IN
QC/QA
N/A
NO

NOTES:

1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM.

2) FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LB./S.Y./IN., UNLESS OTHERWISE NOTED.

THE HMA MATERIAL SHALL MATCH THE ELEVATION OF THE SURROUNDING PAVEMENT AFTER FINAL COMPACTION. BUMPS GREATER THAN 1/4", MEASURED WITH A 16' STRAIGHT EDGE, LEFT AFTER COMPACTION SHALL BE REMOVED WITH PAVEMENT SURFACE GRINDING EQUIPMENT IN ACCORDANCE WITH ARTICLE 1101.04 OF THE STANDARD SPECIFICATION.

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DEPARTMENT OF TRANSPORTATION

SCALE: NONE

COMMITMENTS, GENERAL NOTES, AND PROJECT SPECIFIC NOTES		F.A.P RTE.	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.			
		407	55[(1.2)RS-1	3RS];31	RS-1	McDONOUGH	7	2			
AIND	I HOUL	OI SILU	ALIO MOLE	,					CONTRACT	NO. 68	3H03
2	OF 7	SHEETS	STA. N/A	TO STA. N/A			ILLINOIS	FED. A	D PROJECT		

						CONSTRUC	CTION CODE		
				McDONOUGH					
			Г	COUNTY					
CODE	ITEM	UNIT	TOTAL	100% STATE 0005					
NO.	1 1 614	TOW!	QUANTITY						
				RURAL					
40600305	POLYMEDIZED DITUMNOUS MATERIALS (TACK COAT)	POLINIB	221	004					
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	231	231					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	518	518					
							1		
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	270	270					
				210					
		+	+	4					
67100100	MOBILIZATION	L SUM	1	1	-				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28					
70200200	DAIGED DEFLECTIVE DAVEMENT MADIVED DEMOVAL	FAGU	20	20					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30	30					
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1498	1498					
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1					
X7010210	THATTE CONTROL AND TROTLETION (SEEGLE)	L 3011	-	'					
		+	 				-	-	
			1						
		1							
			1						
		+	-				-	-	
		1							
			-						
			1						
		+	1				1		
			<u> </u>					<u> </u>	

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PLOT DATE = 3/22/2022	DATE -	REVISED -

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SUMMARY OF QUANTITIES					F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						407	55[(1.2)RS-1;3RS];31RS-1	McDONOUGH	7	3
								CONTRACT	NO. 68	8H03
SCALE: NONE	SHEET 3	OF 7	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED. A	ID PROJECT		

MOBILIZATION					
LOCATION	L SUM				
IL 336	1				
TOTAL	1				

TRAFFIC CONTROL & PROTECTION (SPECIAL)							
LOCATION	L SUM						
IL 336	1						
TOTAL	1						

POLYMERIZED BIT	MATERIALS (TACK COAT)
LOCATION	POUND
IL 336	231
TOTAL	231

RAISED REFLECT	IVE PAVEMENT MARKER REMOVAL				
LOCATION	EACH				
IL 336	30				
TOTAL	30				

O/S	STA	LENGTH	WIDTH	AREA	HMA REMOVAL VARIABLE DEPTH	HMA REMOVAL BUTT JOINT	HMA POLY SURFACE	DEPTH
		FT	FT	SQ YD	SQ YD	SQ YD	TON	INCH
LT	16+00 TO 16+41.5	41.5	38.5	177.5	177.5	85.6	33.3	2.25
LT	12+05 TO 12+45	40	38.5	171.1	171.1	85.6	32.5	2.25
RT	11+38 TO 12+48	110	38.5	470.6	470.6	85.6	70.1	2.25
RT	284+33 TO 284+73	40	38.5	171.1	171.1	85.6	31.4	2.25
RT	285+75 TO 286+45	70	38.5	299.4	299.4	85.6	64.9	3
RT	770+64 TO 771+10	46	40.67	207.9	207.9	90.4	37.7	2.25
			TO	ΓAL	1498	518	270	

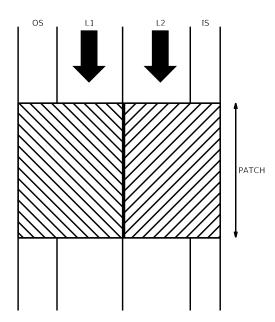
LOCATIONS WITH 2.25" OF HMA SHALL BE CONSTRUCTED IN ONE 2.25" LIFT. LOCATIONS WITH 3" OF HMA SHALL BE CONSTRUCTED IN TWO 1.5" LIFTS.

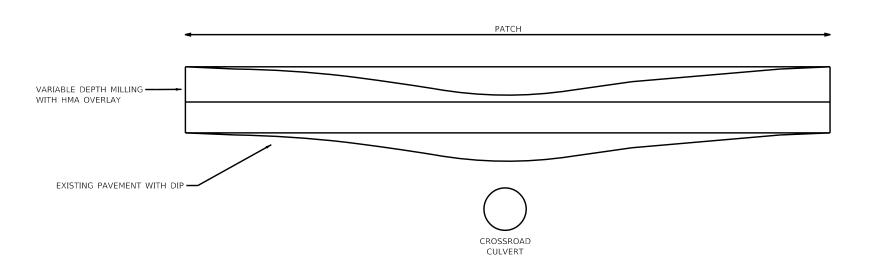
CHANGEABL	E MESSAGE SIGN
LOCATION	CAL DAY
IL 336	28
TOTAL	28

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	SCHEDULE OF Q	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS			
		407	55[(1.2)RS-1;3RS];31RS-1	McDONOUGH	7	4		
						CONTRAC	Г NO. 6	8H03
SCALE: NONE	SHEET 4 OF 7 SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED	AID PROJECT		





CONSTRUCTION SEQUENCE:

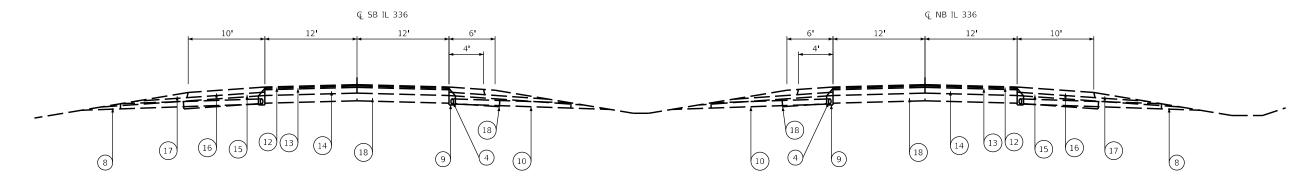
- 1. CLOSE RIGHT-LANE, MOVING TRAFFIC TO LANE 2 (L2) AND INSIDE SHOULDER (IS)
- 2. VARIABLE DEPTH MILL L1 WITH A STRINGLINE TO ESTABLISH A MILLED SURFACE BELOW FINAL GRADE THAT ELIMINATES THE DIP.
- 3. MILL OS TO MATCH L1.
- 4. SAWCUT AND TRANSVERSE MILL 10' BUTT JOINTS AT BOTH ENDS OF PATCH FOR L1 AND OS
- 5. CLEAN MILLED SURFACE WITH MECHANICAL BROOM
- 6. TACK COAT MILLED SURFACE
- 7. PAVE HMA OVERLAY OF L1 WITH A STRINGLINE TO ESTABLISH GRADE
- 8. PAVE HMA OVERLAY OF OS TO MATCH L1
- 9. SWITCH TRAFFIC FROM L2 TO L1 AND OS
- 10. VARIABLE DEPTH MILL L2 AND IS TO MATCH L1 AND ALLOW FOR HMA OVERLAY
- 11. SAWCUT AND TRANSVERSE MILLING 10' BUTT JOINTS AT BOTH ENDS OF PATCH FOR L2 AND IS
- 12. CLEAN MILLED SURFACE WITH MECHANICAL BROOM
- 13. TACK COAT MILLED SURFACE
- 14. PAVE HMA OVERLAY OF L2 AND IS

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PLOT DATE = 3/18/2022	DATE -	REVISED -

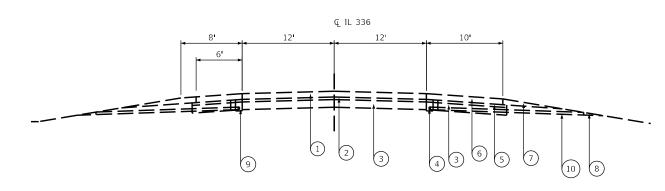
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DEPARTMENT OF TRANSPORTATIO	N

			PAT	CHING	DETAIL		F.A.P RTE.	SECT	TION		COUNTY	TOTAL SHEETS	
							407	55[(1.2)RS-1;	3RS];31	RS-1	McDONOUGH	7	5
											CONTRACT	NO. 68	3H03
SHEET	5	OF	7	SHEETS	STA. N/A	TO STA. N/A			ILLINOIS	FED. A	D PROJECT		



EXISTING TYPICAL IL 336 SECTION (McDONOUGH COUNTY LINE TO US 136)

STA 1405+21.21 TO STA 1405+25.00 (EB LANES ONLY)
STA 1405+25.00 TO STA 1411+17.86 (EB & WB LANES)
STA 1420+62.14 TO STA 1433+87.40 (EB & WB LANES)
STA 146+54.52 TO STA 17+49.92 (EB & WB LANES)
STA 26+94.39 TO STA 42+96.81 (EB & WB LANES)
STA 55+50.58 TO STA 70+84.42 (EB & WB LANES)
STA 80+29.71 TO STA 111+00.13 (EB & WB LANES)
STA 120+44.77 TO STA 128+00.00 (EB & WB LANES)



EXISTING TYPICAL IL 336 SECTION (US 136 TO US 67)

STA 541+57.14 TO STA 546+24.47 - SB ONLY STA 546+24.47 TO STA 548+25.25 STA 575+11.16 TO STA 577+00.00

LEGEND

- (1) EXISTING P.C.C. PAVEMENT, 9", (JOINTED)
- 9 EXISTING FA-4 OR FM-4 SAND
- (2) EXISTING STABILIZED SUB-BASE, 4"
- 10) EXISTING PIPE UNDERDRAINS 4" AT 2% SLOPE
- EXISTING LIME MODIFIED SOIL, 12" MIN
- 11) EXISTING AGGREGATE WEDGE SHOULDERS, TYPE B, 9"

(4) EXISTING PIPE UNDERDRAINS, 4"

- 12) EXISTING POLYMERIZED HMA SURFACE COURSE, 2"
- (5) EXISTING COMPACTED SUBGRADE (EMBANKMENT)
- (13) EXISTING POLYMERIZED HMA BINDER COURSE, 2.25"

(6) EXISTING P.C.C. SHOULDERS, 9"

- 14) EXISTING HMA BINDER COURSE, 9"
- (7) EXISTING AGGREGATE SHOULDERS, TYPE B, 9"
- 5) EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C, 5.25"
- 8 EXISTING CONCRETE HEADWALL FOR PIPE DRAINS
- (16) EXISTING BITUMINOUS SHOULDERS, 8"

(17) EXISTING AGGREGATE SHOULDERS. TYPE B

SCALE: NONE

(18) EXISTING MODIFIED SOILS

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						F.A.P RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
						407	55[(1.2)RS-1;3RS];31RS-1		McDONOUGH	7	6		
											CONTRACT NO. 68H03		
	SHEET	6	OF 7	SHEETS	STA. N/A	TO STA. N/A			ILLINOIS	FED. A	ID PROJECT		

