

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
739	432RS-2	JERSEY	7	1
		ILLINOIS	CONTRACT NO. 76K97	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA - ELRED/HILLVIEW RD  
FROM THE COUNTY LINE TO SANDRIDGE RD

2017 ADT = 625 (ACTUAL)  
2018 ADT = 625 (ESTIMATED)  
2038 ADT = 775 (ESTIMATED)  
SU = 6.4% MU = 6.4%

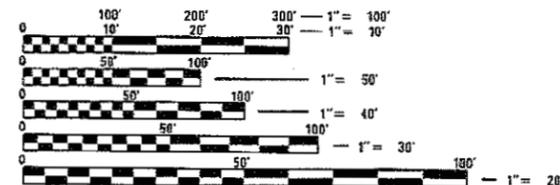
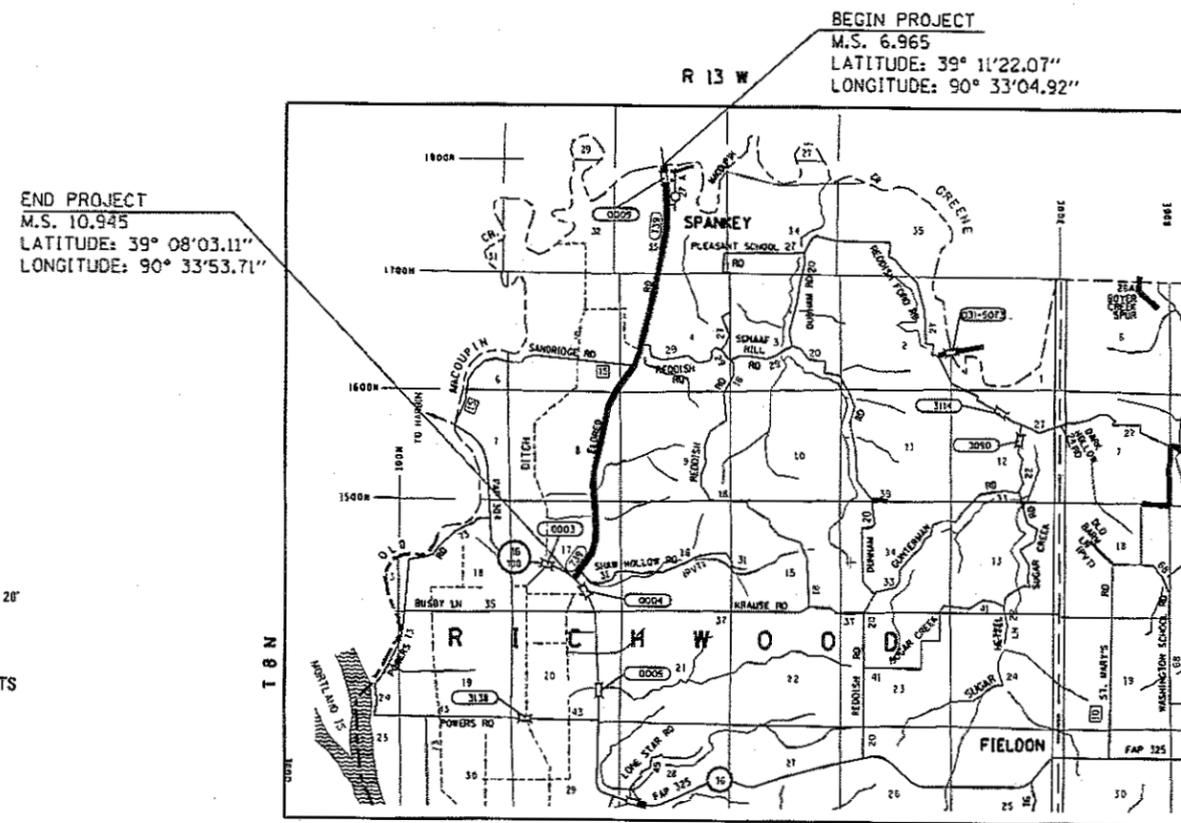
TRAFFIC DATA - ELRED/HILLVIEW RD  
FROM SANDRIDGE RD TO IL 100

2017 ADT = 325 (ACTUAL)  
2018 ADT = 325 (ESTIMATED)  
2038 ADT = 490 (ESTIMATED)  
SU = 12.3% MU = 5.5%

# PROPOSED HIGHWAY PLANS

FAS ROUTE 739  
SECTION 432RS-2  
1/2 SMART RESURFACING - CM  
JERSEY COUNTY

C-98-138-18



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED 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 EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: TIM PADGETT 618-346-3325  
PROJECT MANAGER: LEONARD CHILDS 618-346-3191

CONTRACT NO. 76K97



GROSS LENGTH = 21014.4 FT. = 3.98 MILE  
NET LENGTH = 21014.4 FT. = 3.98 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 8 2017  
Jeffrey Z. Kamars  
REGIONAL ENGINEER

Feb 2 2018  
David L. Childs  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 2 2018  
David L. Childs  
DIRECTOR OF PROGRAM DEVELOPMENT 2

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**INDEX OF SHEETS**

- 1 COVER
- 2 INDEX OF SHEETS, STANDARDS, GENERAL NOTES & COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 SCHEDULE OF QUANTITIES
- 6 DETAILS
- 7 LOCATION MAP

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W SHORT TERM OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901-07 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS

**GENERAL NOTES**

- 1 ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 

UTILITY	ABOVE GROUND	BELOW GROUND
* FRONTIER COMMUNICATIONS COMMUNICATIONS	X	X
* M.J.M. ELECTRIC COOPERATIVE, INC. ELECTRIC	X	X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800)892-0123 AND ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- 2 THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT, THE STATIONING, TOPOGRAPHY AND QUANTITIES SHOWN ON THESE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3 PROPOSED PAVEMENT MARKING SHALL BE PLACED IN THE SAME LOCATION AS EXISTING AS DIRECTED BY THE ENGINEER.
- 4 NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.
- 6 SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO PRIMED SURFACE AND LEVELING BINDER AND REMOVED FROM LEVELING BINDER ONLY.

**COMMITMENTS**

NONE

**MIXTURE REQUIREMENTS**

ROUTE	FAS 739
SECTION	432RS-2
COUNTY	JERSEY
CONTRACT	76K97

<b>DESCRIPTION</b>	<b>1/2 SMART RESURFACING</b>
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ADT (CONSTRUCTION YR):	625
MU%	5.5
SU%	6
20 YR. ESAL'S	0.23

MIXTURE USE	LEVEL BINDER
AC/PG	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5 FG
FRICTION AGG	MIXTURE "C"
QUALITY MGMT PROGRAM	QCP

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STANDARDS  
GENERAL NOTES & COMMITMENTS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
739	432RS-2	JERSEY	7	2
CONTRACT NO. 76K97				
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY 0005	RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	23116	23116	
40600637	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	TON	2158	2158	
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	51369	51369	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3900	3900	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	654	654	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10487	10487	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	10697	10697	
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	1067	1067	
X1500001	BITUMINOUS SURFACE TREATMENT, (PREVENTIVE MAINTENANCE)	SQ YD	51369	51369	
Ø Z0070604	TRAINEES TRAINING PROGRAM GRADUATE	HOVR	500	500	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	3566	3566	

\* SPECIALTY ITEM

Ø 0042

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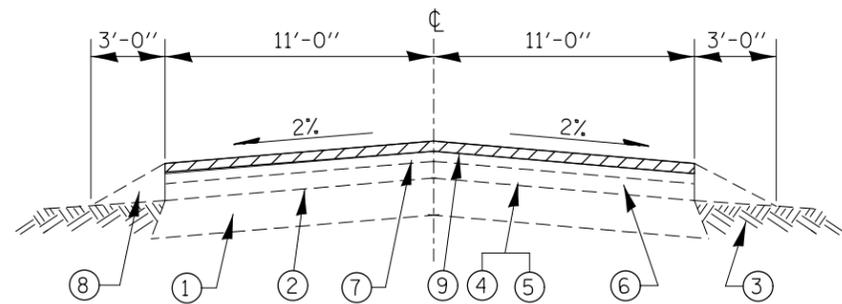
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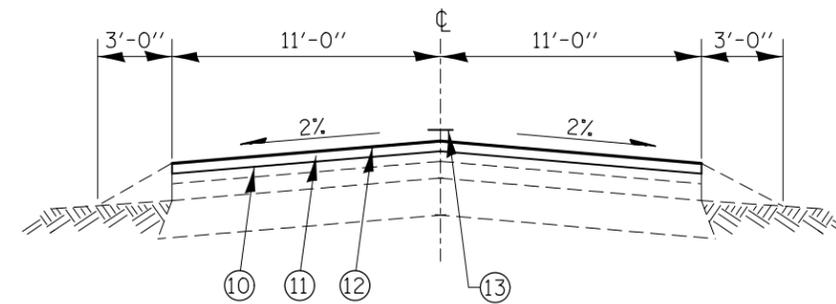
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

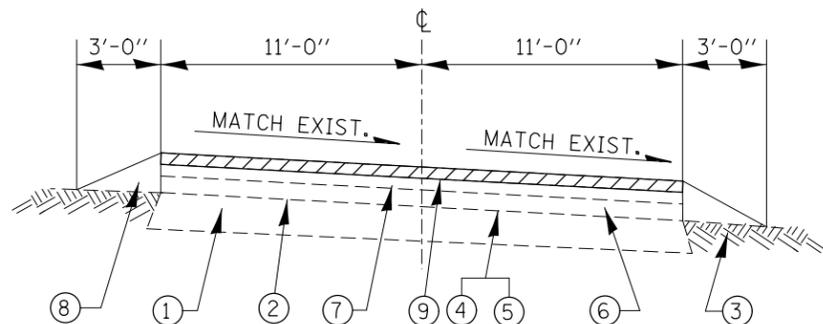
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739	432RS-2	JERSEY	7	3
SCALE:			CONTRACT NO. 76K97	
SHEET 1 OF 1 SHEETS		STA.	TO STA.	
ILLINOIS FED. AID PROJECT				



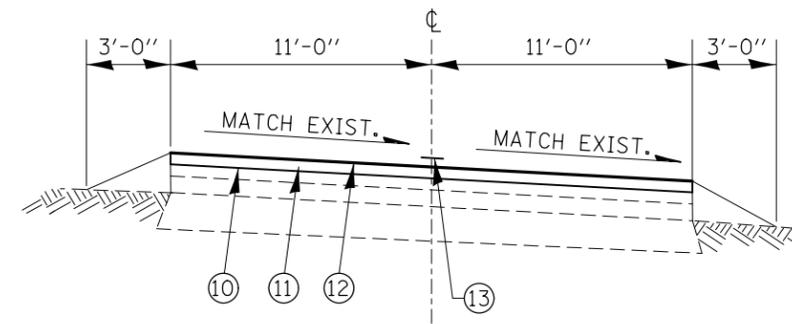
EXISTING SECTION



PROPOSED SECTION



EXISTING SUPERELEVATION SECTION



PROPOSED SUPERELEVATION SECTION

**LEGEND**

- ① EXISTING AGGREGATE BASE STONE
- ② EXISTING BITUMINOUS A-3 & A-1 TREATMENT
- ③ EXISTING EARTH SHOULDER
- ④ EXISTING BITUMINOUS MATERIAL (PRIME COAT)
- ⑤ EXISTING AGGREGATE (PRIME COAT)
- ⑥ EXISTING LEVELING BINDER (MACHINE METHOD) N50 - 3/4"
- ⑦ EXISTING BITUMINOUS SURFACE COURSE, SUPERPAVE N50 - 1 1/2"
- ⑧ EXISTING AGGREGATE SHOULDERS TYPE B
- ⑨ PROPOSED HMA SURFACE REMOVAL - 3/4"
- ⑩ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑪ PROPOSED LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70, 3/4"
- ⑫ PROPOSED BITUMINOUS SURFACE TREATMENT - A1
- ⑬ PROPOSED PAVEMENT MARKING, 4"

HOT-MIX SURFACE REMOVAL 3/4"

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
739	432RS-2	JERSEY	7	4
			CONTRACT NO. 76K97	
			ILLINOIS FED. AID PROJECT	

RESURFACING SCHEDULE								
STATION TO STATION	LENGTH	DIMENSION		HMA SURFACE REMOVAL 3/4"	BITUMINOUS MATERIALS TACK COAT	LEVELING BINDER	BITUMINOUS SURFACE TREATMENT (A-1) (PREVENTIVE MAINTENANCE)	
		WIDTH		SQ YD	POUND	TON	SQ YD	
		FT						
MAINLINE								
6.965	-	10.945	3.980	22	51369	23116	2157.5	51368.5
TOTAL:					51369	23116	2158	51369

PAVEMENT MARKING SCHEDULE														
STATION TO STATION	LENGTH	SHORT TERM PAVEMENT MARKING		TEMPORARY PAVEMENT MARKING			TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	PAINT PAVEMENT MARKING LINE			SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING REMOVAL		
		4" SKIP-DASH YELLOW	FOOT	4" SKIP-DASH YELLOW	NO PASSING ZONE			4" SKIP-DASH YELLOW	NO PASSING ZONE					
					4" SOLID	DIR			FOOT	4" SOLID			DIR	FOOT
FT	FOOT	FOOT	DIR	FOOT	EACH	FOOT	DIR	FOOT	SQ FT	SQ FT				
6.965	-	7.172	1093	200	280	NB	1093	57	280	NB	1093	34	458	
7.172	-	8.922	9240	1700	2310			464	2310			284	770	
8.922	-	9.111	998	200	250	SB	998	52	250	SB	998	34	416	
9.111	-	9.131	106	20	0	BOTH	211	7	0	BOTH	211	4	81	
9.131	-	9.340	1104	220	280	NB	1104	57	280	NB	1104	37	462	
9.340	-	10.694	7149	1300	1790			359	1790			217	597	
10.694	-	10.815	639	120	160		639	34	0		639	20	267	
10.815	-	10.945	686	140	0	BOTH	1373	36	180	BOTH	1373	24	518	
SUBTOTAL				3900	5280		5417	1067	5280		5417	654	3566	
TOTAL				3900			10487	1067				654	3566	

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
739	432RS-2	JERSEY	7	5
			CONTRACT NO. 76K97	
		ILLINOIS	FED. AID PROJECT	

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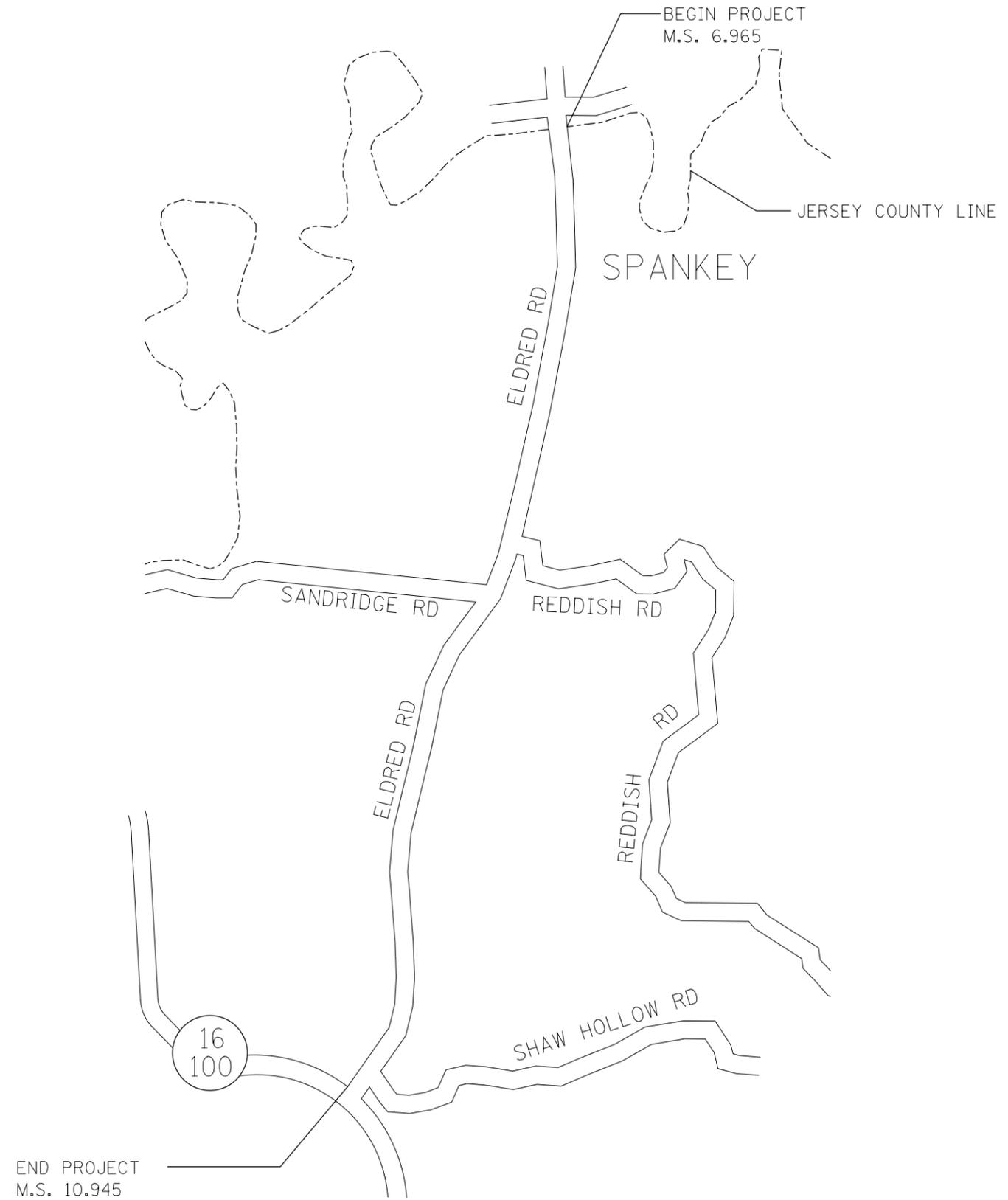
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
739	432RS-2	JERSEY	7	6
ILLINOIS			CONTRACT NO. 76K97	
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LOCATION MAP</b>			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
739	432RS-2	JERSEY	7	7
CONTRACT NO. 76K97				
ILLINOIS FED. AID PROJECT				