

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	1
		ILLINOIS	CONTRACT NO. 74B20	

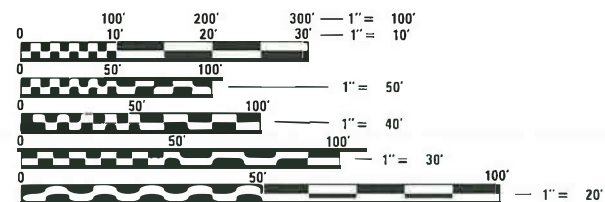
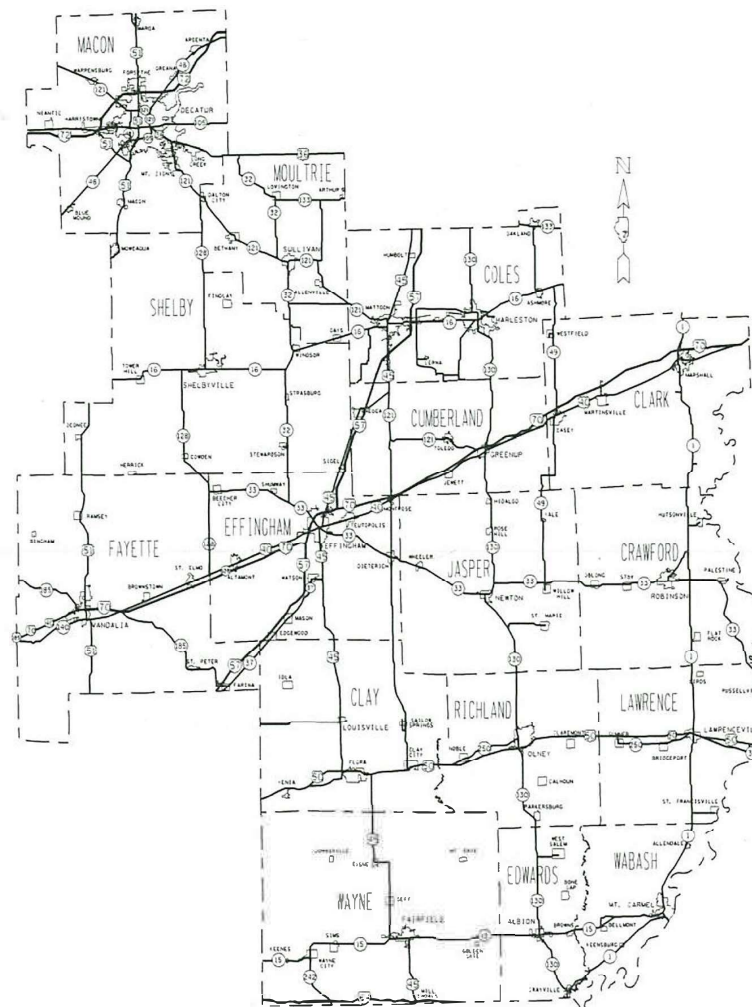
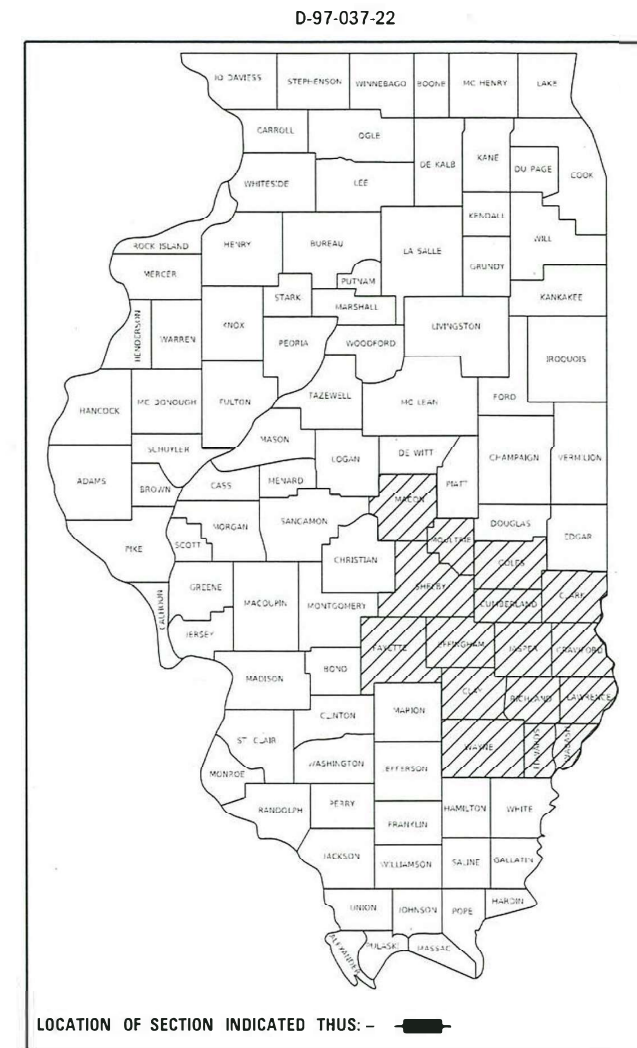
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION D7 GUARDRAIL 2023-1

GUARDRAIL MAINTENANCE
VARIOUS COUNTIES

C-97-084-22



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER BRIAN LEWIS
PROJECT MANAGER ANDREW NIEMERG

CONTRACT NO. 74B20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 4 20 22
Jeffrey P. Myerles
REGIONAL ENGINEER

May 13, 2022 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN SIXTEEN COUNTIES ALL LOCATED WITHIN DISTRICT 7. THE WORK INCLUDED IN THIS SECTION CONSISTS OF VARIOUS TYPES OF GUARDRAIL REPAIR AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THIS PROJECT INCLUDES REPAIRS OF EXISTING DAMAGE AT KNOWN LOCATIONS AND REPAIRS OF FUTURE DAMAGE ON AN ON-CALL BASIS.

A VIRTUAL FIELD CHECK IS POSSIBLE BY SEARCHING THE COORDINATES OF ANY LOCATION IN GOOGLE MAPS AND GOING TO STREET VIEW. IMAGES THERE MAY NOT BE UP TO DATE.

REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY SHALL BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS SHALL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.

THE CONTRACTOR IS ADVISED THAT THE GUARDRAIL PAY ITEMS INCLUDED IN THE PLANS MAY BE USED TO REPLACE/REPAIR SPBGR AND TRAFFIC BARRIER TERMINALS FOR THE MIDWEST GUARDRAIL SYSTEM AS SHOWN IN THE HIGHWAY STANDARDS AS WELL AS SPBGR AND TRAFFIC BARRIER TERMINALS INSTALLED PRIOR TO JAN. 1, 2007. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST GUARDRAIL SYSTEM STANDARD.

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>ITEM</u>
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES & LIST OF STANDARDS
3	SUMMARY OF QUANTITIES
4	SCHEDULES OF QUANTITIES
5-11	LOCATION MAPS BY COUNTY
12	SAND BARREL DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDE FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

<u>STD. NO.</u>	<u>DESCRIPTION</u>
630001-12	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
631033-08	TRAFFIC BARRIER TERMINAL, TYPE 6B
665001-02	WOVEN WIRE FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVE
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
000001-08	STANDARD SYMBOLS OF AN INCH AND OF A FOOT
001006	DECIMAL OF AN INCH AND OF A FOOT
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
636001-02	CABLE ROAD GUARD SINGLE STRAND
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

REV. - MS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																					
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	2																					
ILLINOIS			CONTRACT NO. 74B20																						
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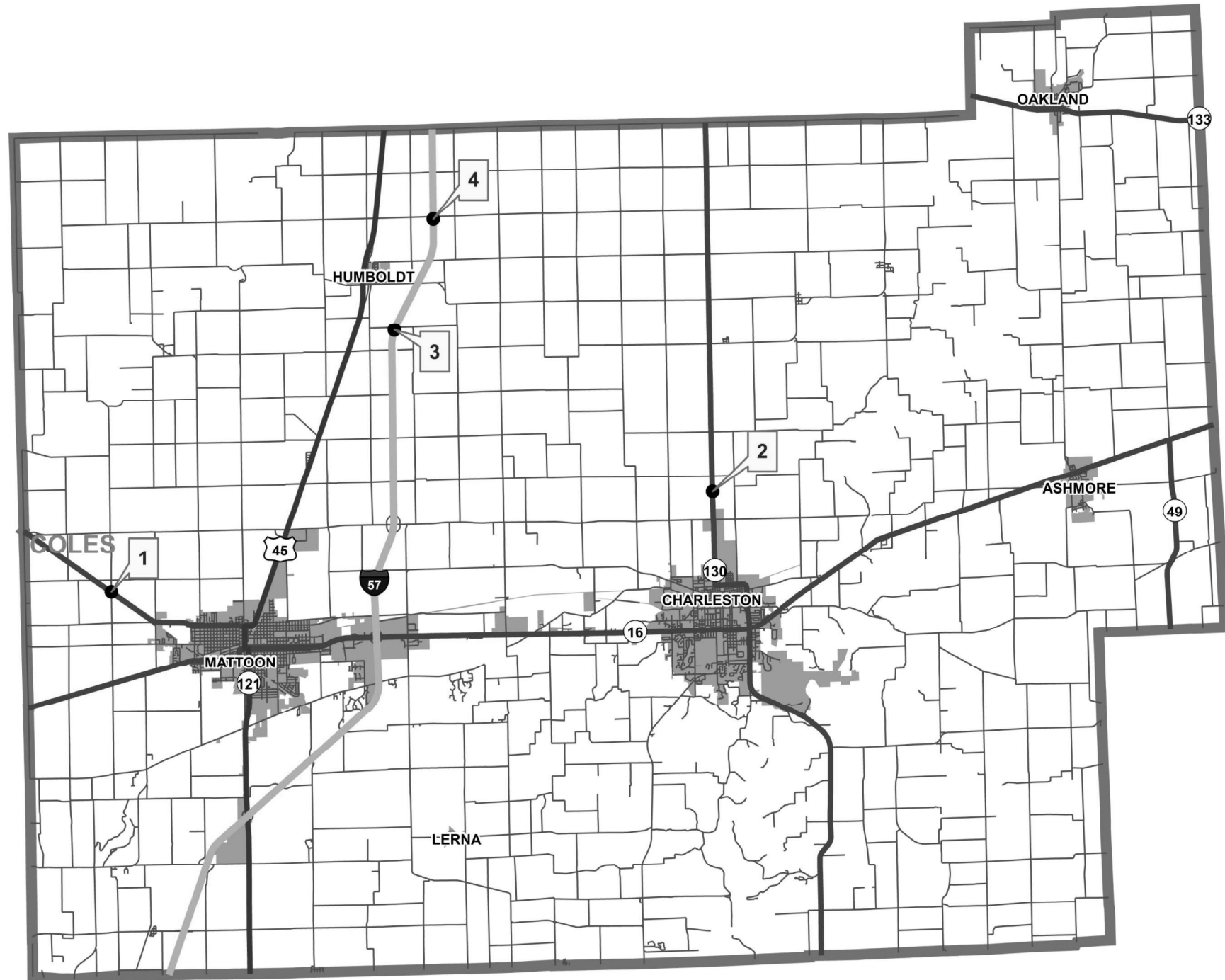
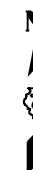
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CODE NO	ITEM	UNIT		0021 MCHD	0021 C.M.
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1		1
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1		1
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	11	7	4
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	3	2	1
63600105	CABLE ROAD GUARD, SINGLE STRAND	FOOT	100		100
66500105	WOVEN WIRE FENCE, 4'	FOOT	100		100
67100100	MOBILIZATION	L SUM	1	0.5	0.5
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	18	12	6
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	24	14	10
X6300210	GUARDRAIL BLOCKS	EACH	122	82	40
X6300215	RAIL ELEMENT PLATES	EACH	111	76	35
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	6	4	2
X6300220	EXTRUDER HEAD	EACH	4	3	1

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 C.M.
X6300225	SINGLE END SECTION	EACH	1	1	
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	4		4
X6300236	STEEL POSTS 6'	EACH	100	69	31
X6300239	STEEL POSTS 9'	EACH	6		6
X6431220	REMOVE AND REPLACE IMPACT ATTENUATOR SAND MODULE	EACH	21	6	15
Z0008760	EMERGENCY WORK CALL OUT	EACH	6		6
Z0029658	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST	EACH	5	4	1
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	11	8	3
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4	EACH	1		1
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1		1
Z0053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1		1
Z0059660	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	EACH	8	4	4

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	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



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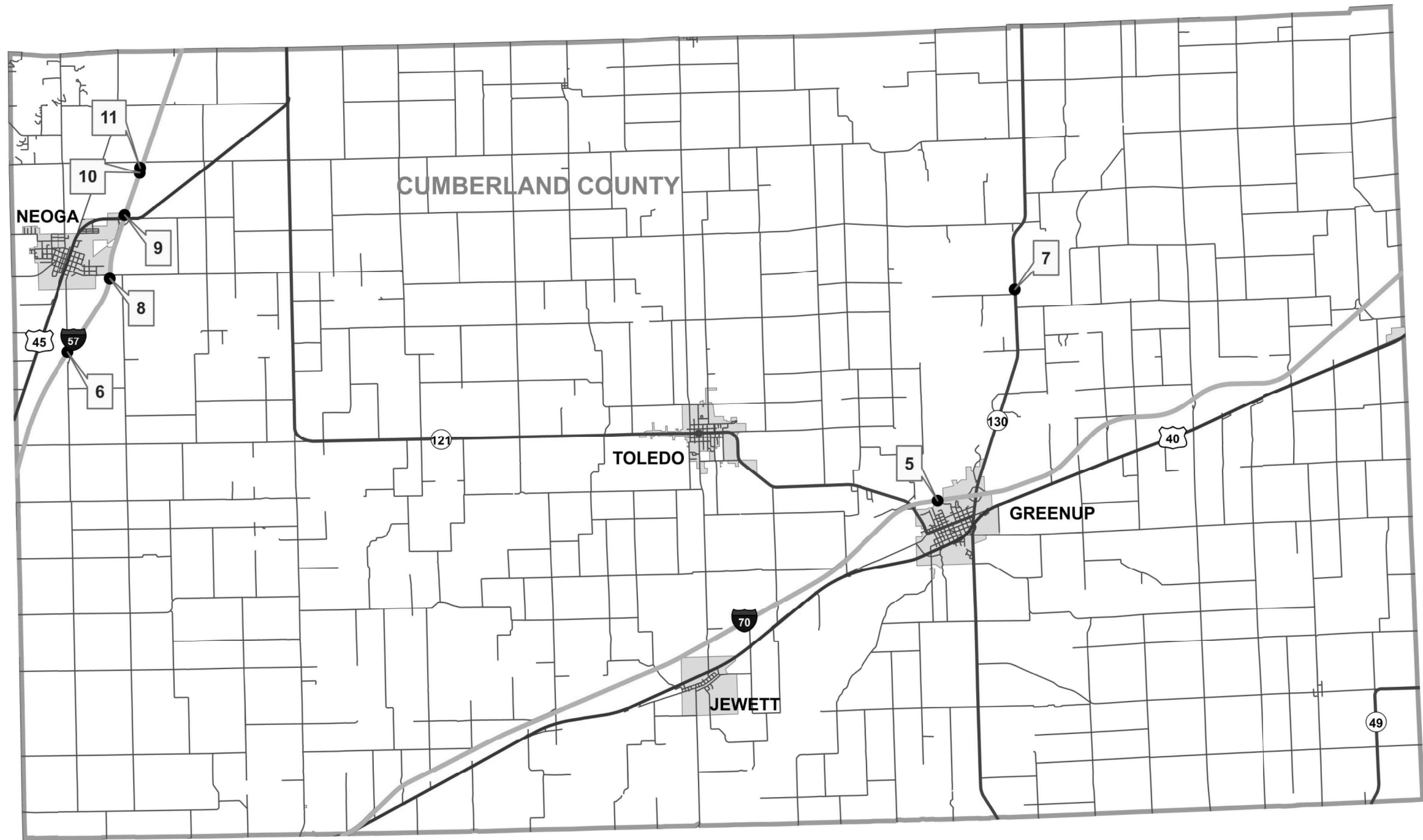
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COLES COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	5
			CONTRACT NO. 74B20	
ILLINOIS FED. AID PROJECT				



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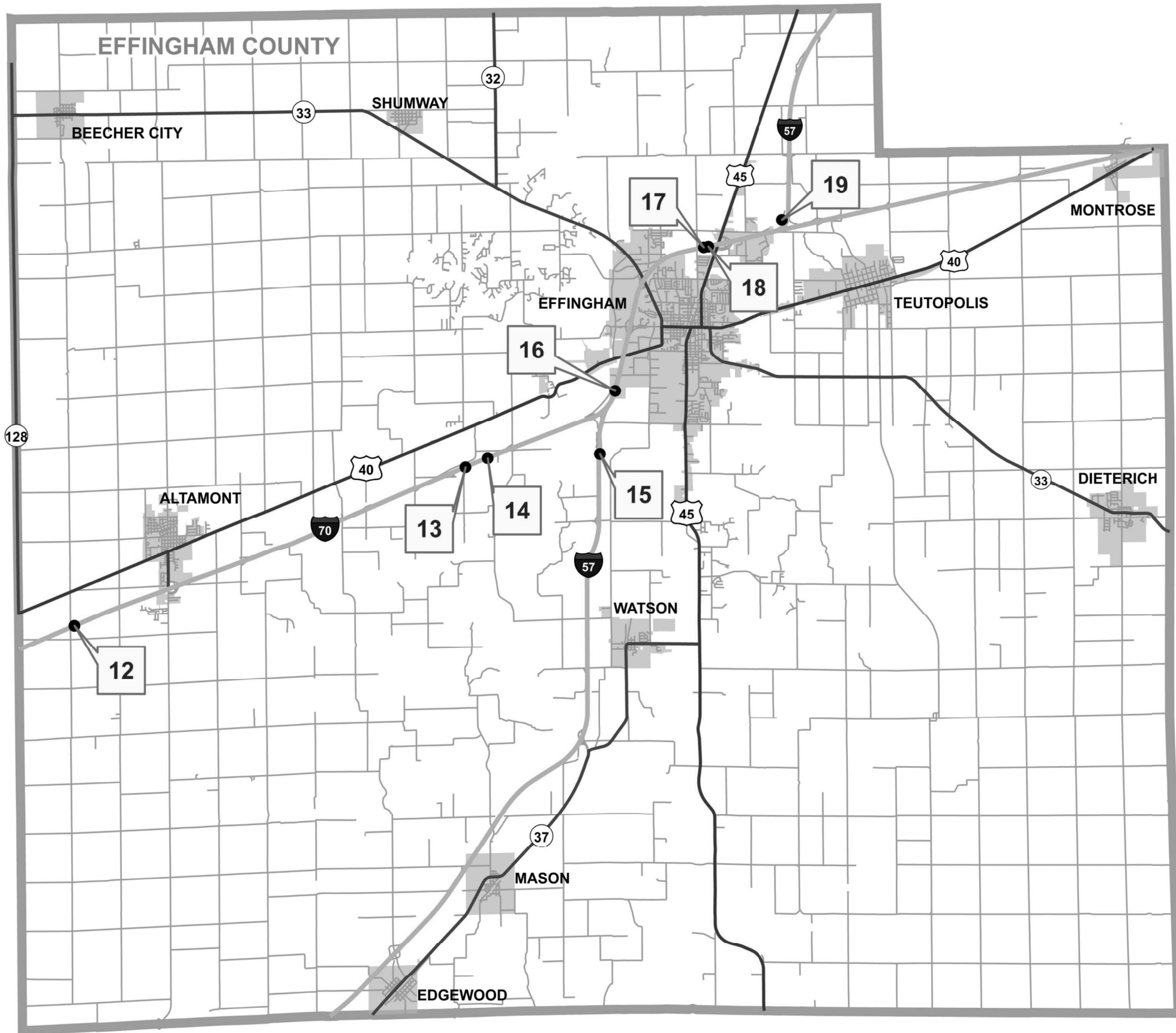
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CUMBERLAND COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				



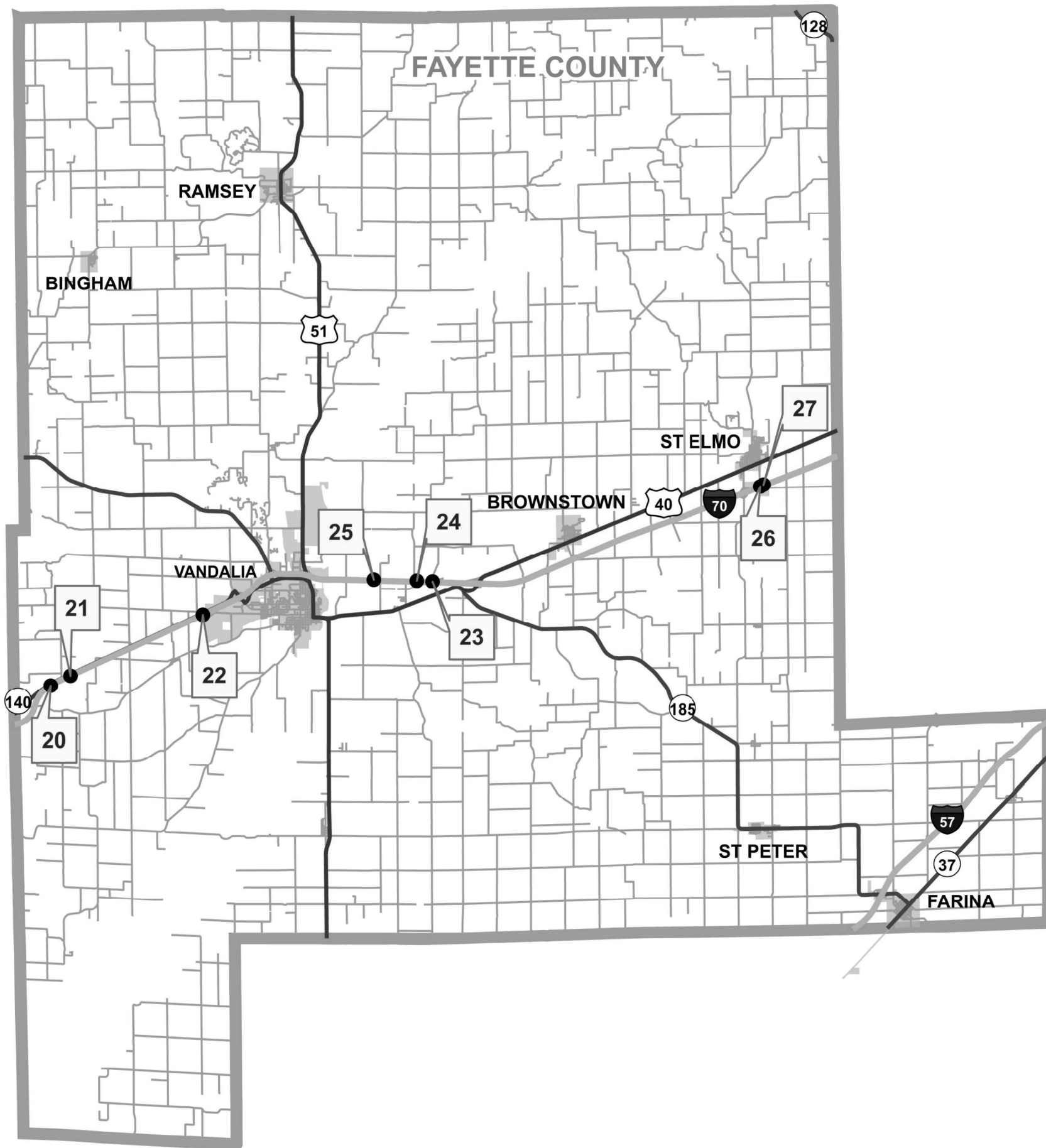
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EFFINGHAM COUNTY				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	7
			CONTRACT NO. 74B20	
ILLINOIS FED. AID PROJECT				



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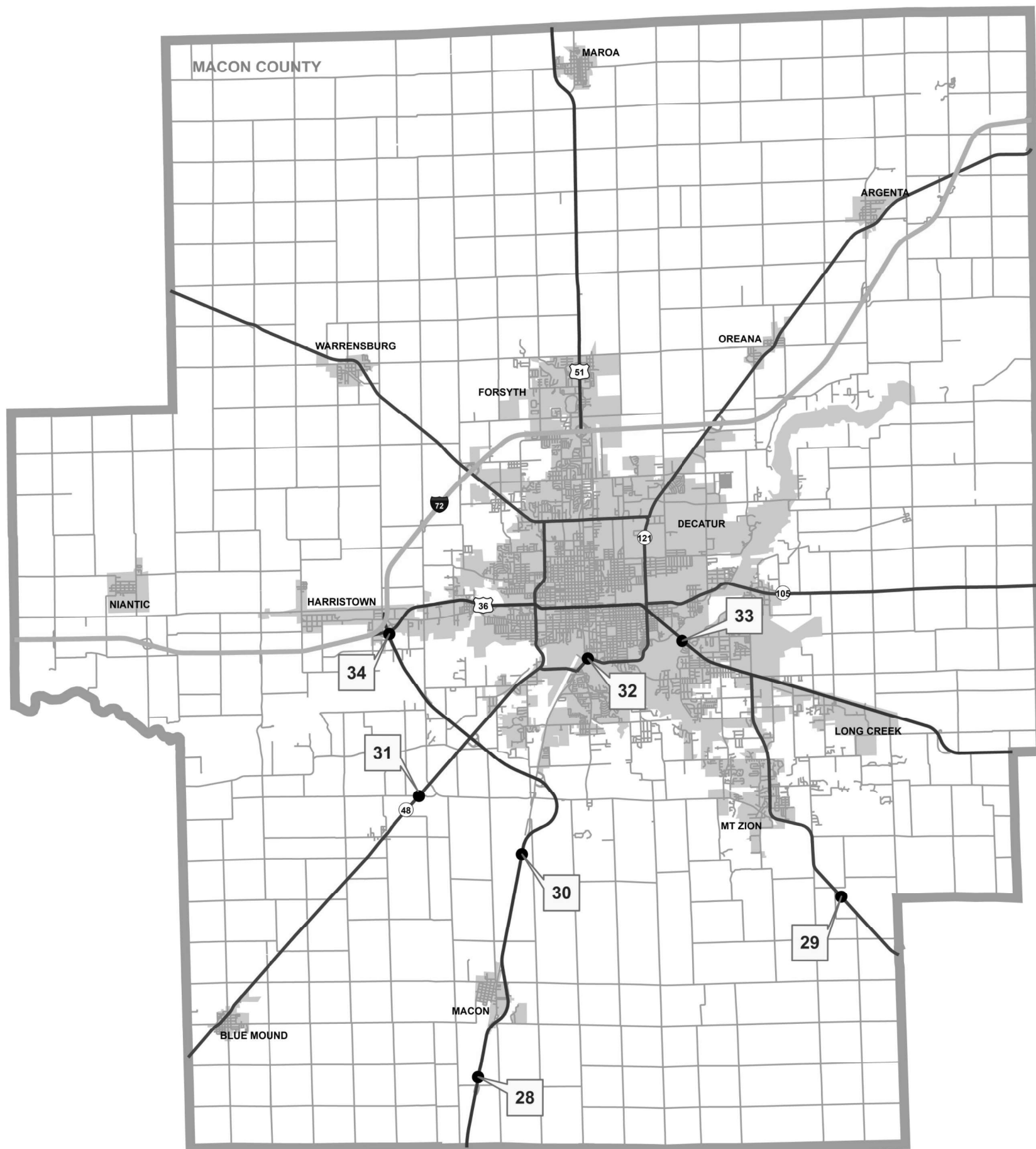
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAYETTE COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	8
CONTRACT NO. 74B20			ILLINOIS FED. AID PROJECT	



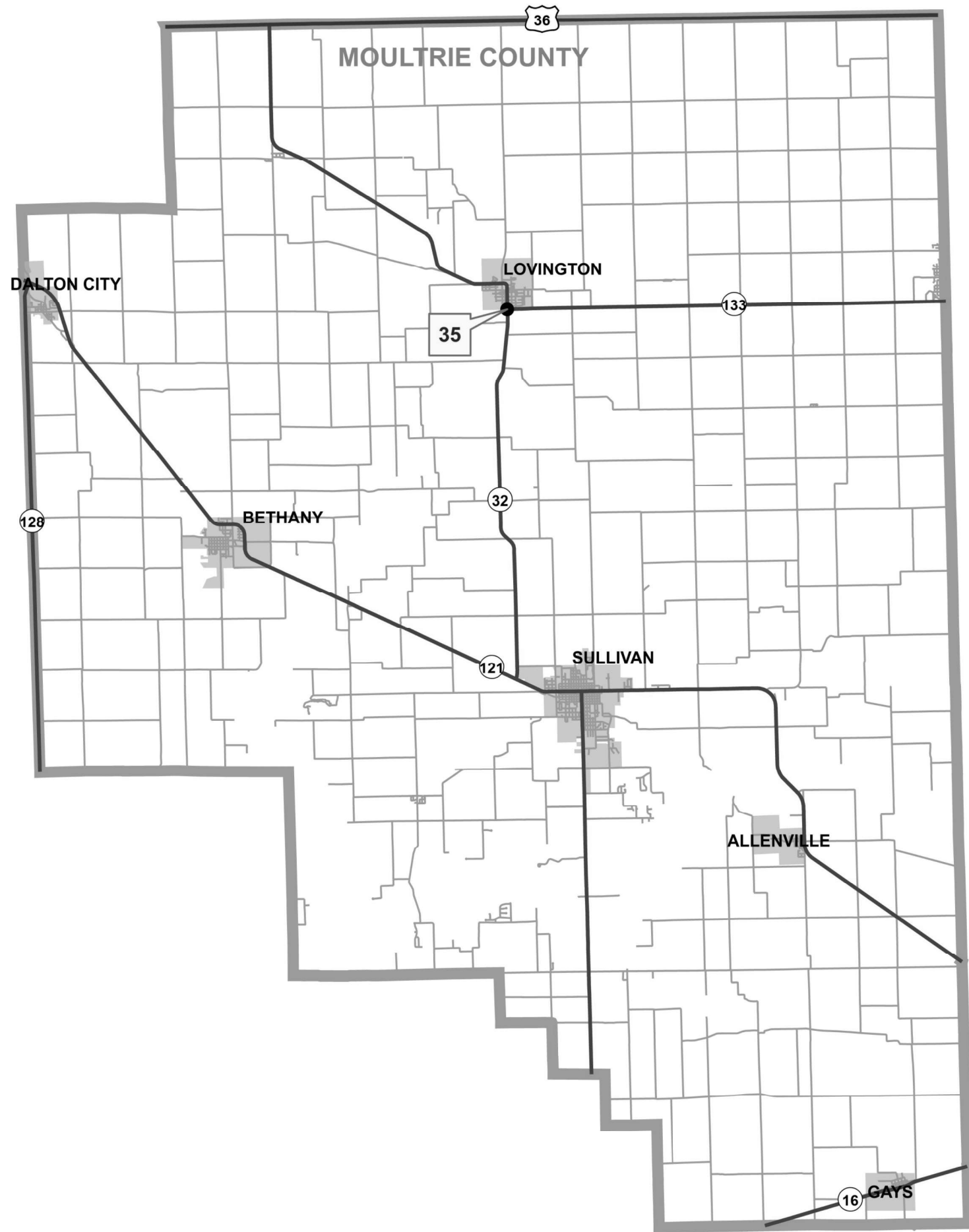
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MACON COUNTY				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 74B20	
ILLINOIS FED. AID PROJECT				



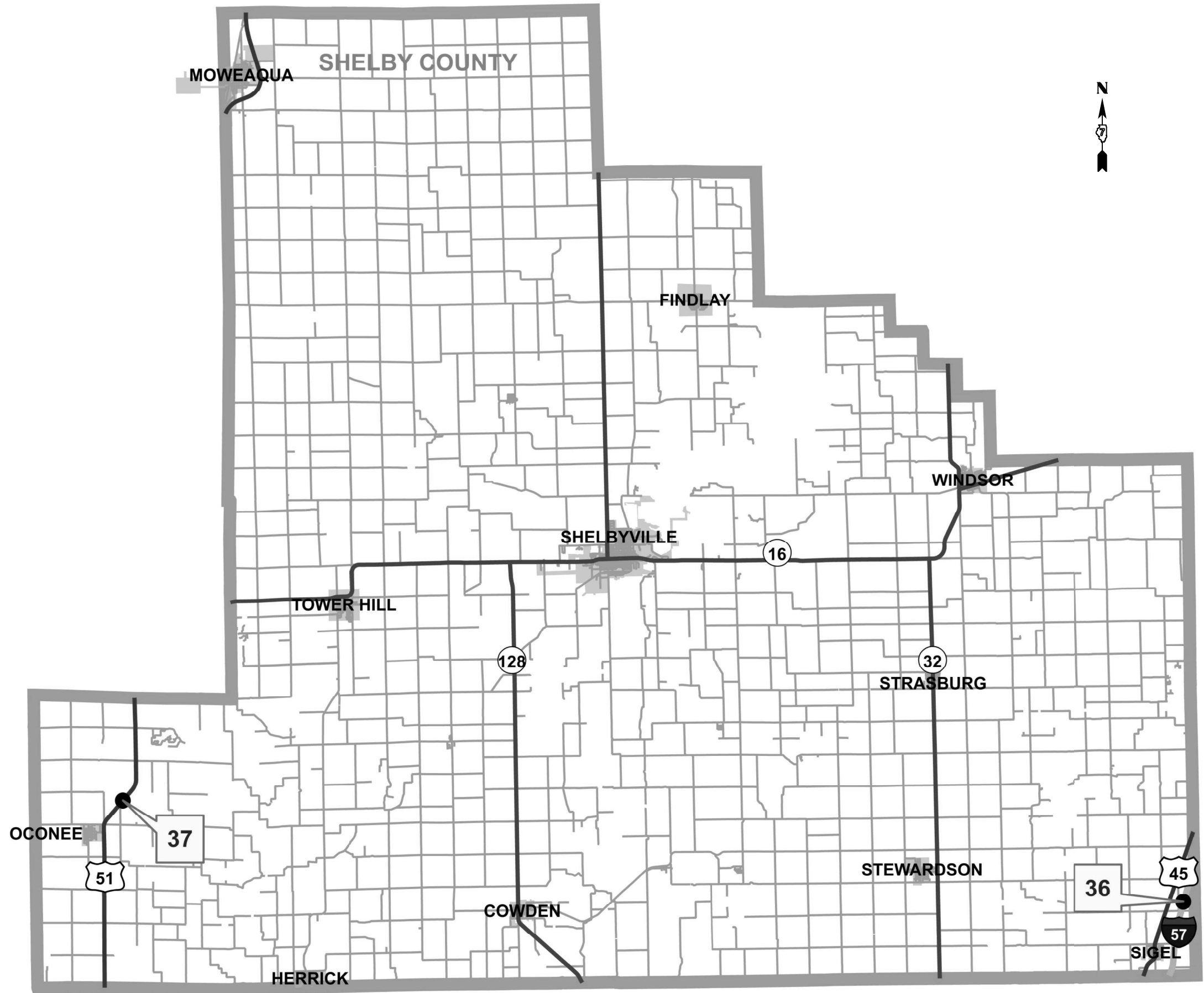
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MOULTRIE COUNTY		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	10
			CONTRACT NO. 74B20	
ILLINOIS FED. AID PROJECT				



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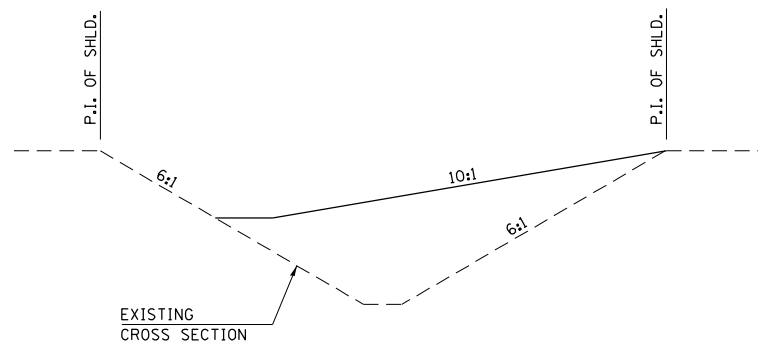
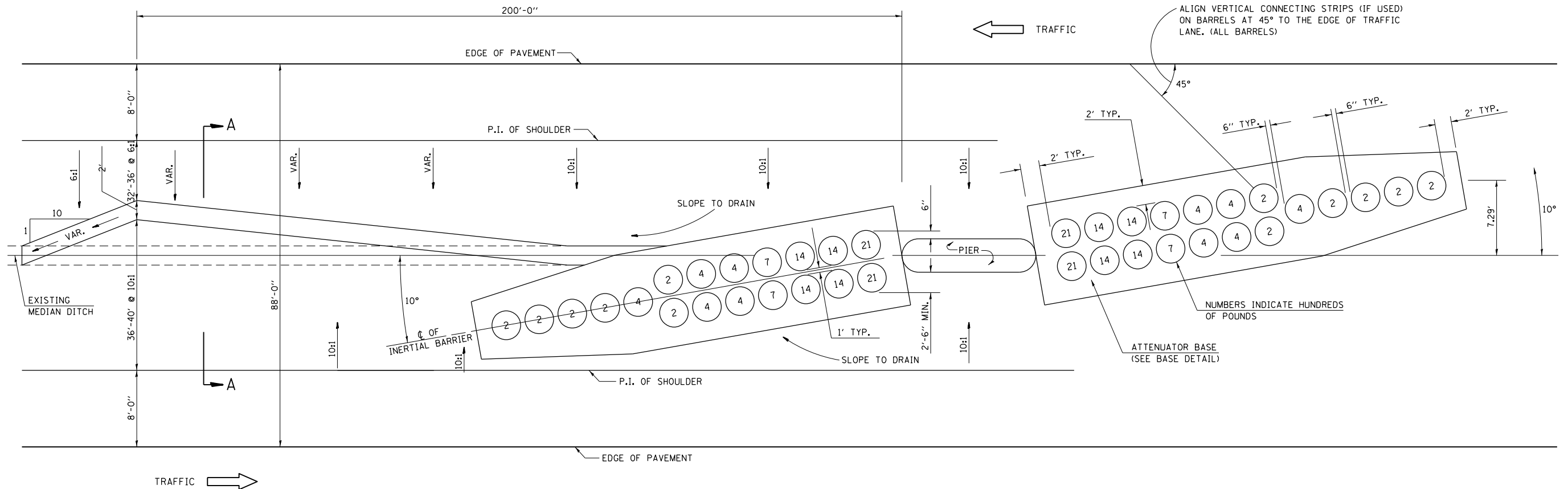
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

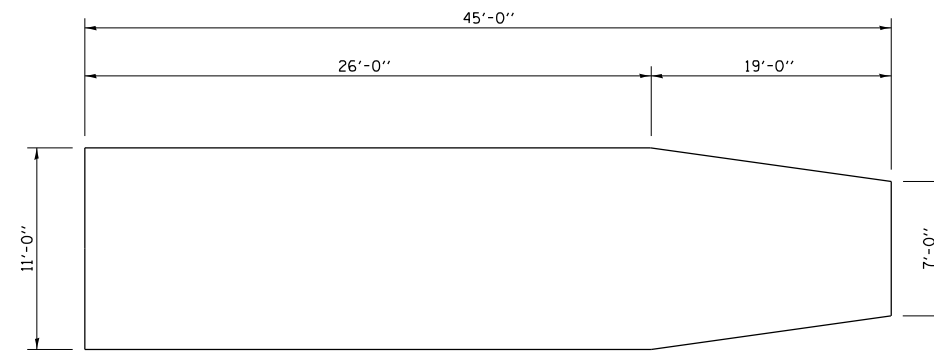
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SHELBY COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74B20	



**SECTION A-A
GRADING AND SHAPING DETAIL**



BASE DETAIL

GENERAL NOTES

1. ALL 10:1 SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 OR FLATTER.
2. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
3. THE LENGTH X WIDTH OF MODULE LAYOUT IS 41.0' x 7.0': 19 MODULES - 14,400 LBS.
4. IN AREAS OF 10:1 SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR OR MORE WOOD POSTS SHALL BE PLACED AT 5' INTERVALS IN THE MEDIAN ϕ . SEE SPECIAL PROVISIONS AND SCHEDULES.

NOTE:

This sheet applies ONLY when making partial repair of an existing sand barrel array that was installed according to this drawing. Use Standard 643001 for a complete replacement.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. Z0030150

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING SAND BARREL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

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VAR	D7 GUARDRAIL 2023-1	VARIOUS	12	12
CONTRACT NO. 74B20				
ILLINOIS FED. AID PROJECT				