

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTF	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		VARIOUS	19	1
		ILLINOIS	CONTRACT NO. 74C06	

* D7 GUARDRAIL 2023-2

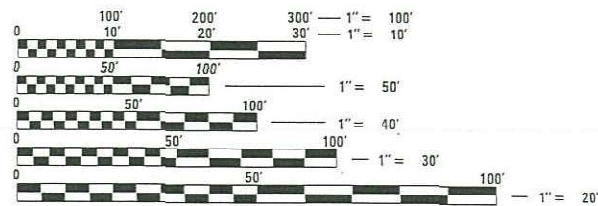
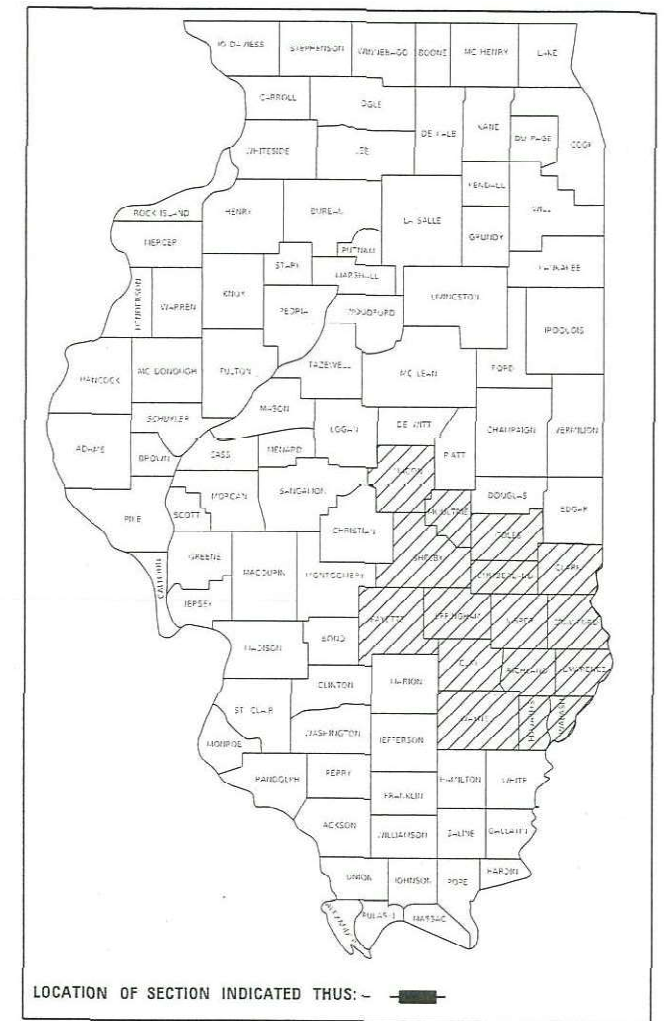
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION D7 GUARDRAIL 2023-2

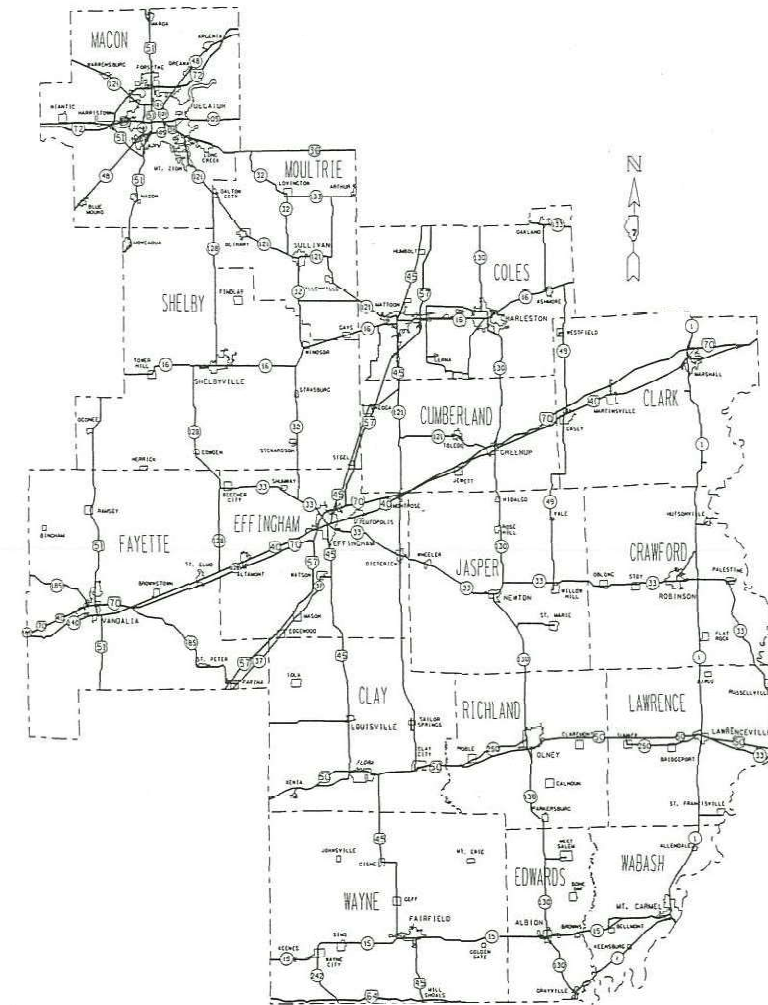
GUARDRAIL MAINTENANCE
VARIOUS COUNTIES

C-97-055-23



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 BRIAN LEWIS

CONTRACT NO. 74C06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED FEBRUARY 6 2023
Jeffrey P. Myerles
REGIONAL ENGINEER

March 24, 2023 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023 [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
3-4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6-18	LOCATION MAPS BY COUNTY
19	SAND BARREL DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED 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
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
631033-09	TRAFFIC BARRIER TERMINAL, TYPE 6B
636001-02	CABLE ROAD GUARD SINGLE STRAND
643001-02	SAND MODULE IMPACT ATTENUATORS
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 EDGE
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
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630111-01	WEAK POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5

REV. - MS

MODEL: D:\default
 FILE: M:\gis\p\illinois\p\illinois\dot\office\dist\ct\7\Project\374C06\CADD\DATA\CAD\sheet\0774C06-INT-GENERAL.dgn

USER NAME = Mona.Steffen PLOT SCALE = 100.0000' / in. PLOT DATE = 2/6/2023	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED + REVISED +	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, LIST OF STANDARDS, INDEX OF SHEETS	F.A. RTE. VAR.	SECTION *	COUNTY VARIOUS	TOTAL SHEETS 19	SHEET NO. 2
SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT * D7 GUARDRAIL 2023-2					

100% STATE
URBAN

100% STATE
URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 CONT. MAINT.
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	25	17	8
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	1	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	30	21	9
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	98	48	50
X6300210	GUARDRAIL BLOCKS	EACH	472	272	200
X6300215	RAIL ELEMENT PLATES	EACH	318	168	150
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	2		2

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 CONT. MAINT.
X6300220	EXTRUDER HEAD	EACH	1	1	
X6300225	SINGLE END SECTION	EACH	2		2
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	11	9	2
X6300236	STEEL POSTS 6'	EACH	335	235	100
X6300239	STEEL POSTS 9'	EACH	20		20
X6431220	REMOVE AND REPLACE IMPACT ATTENUATOR SAND MODULE	EACH	10	5	5
Z0008760	EMERGENCY WORK CALL OUT	EACH	3		3
Z0029658	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST	EACH	6	1	5
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	13	8	5
Z0052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	2	1	1
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	2	1
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	2	1

MODEL: Default
 FILE NAME: p:\project-aw-bee-fwy.com\PIV\DOT\Documents\DOT_Offices\Director_7\Project\74C06\CADD\Drawings\74C06-SP-S00.dgn

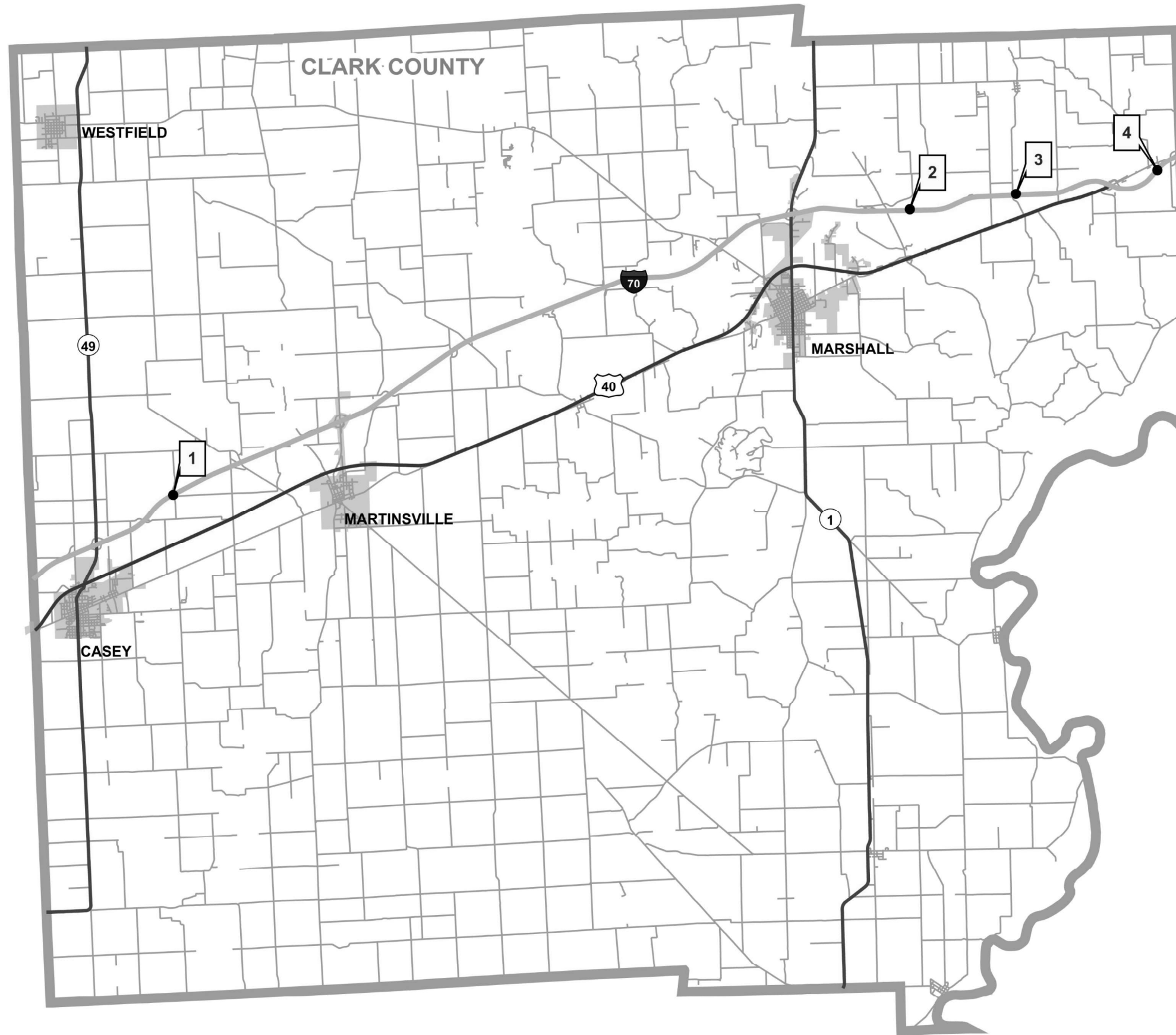
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	3
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				
* D7 GUARDRAIL 2023-2				



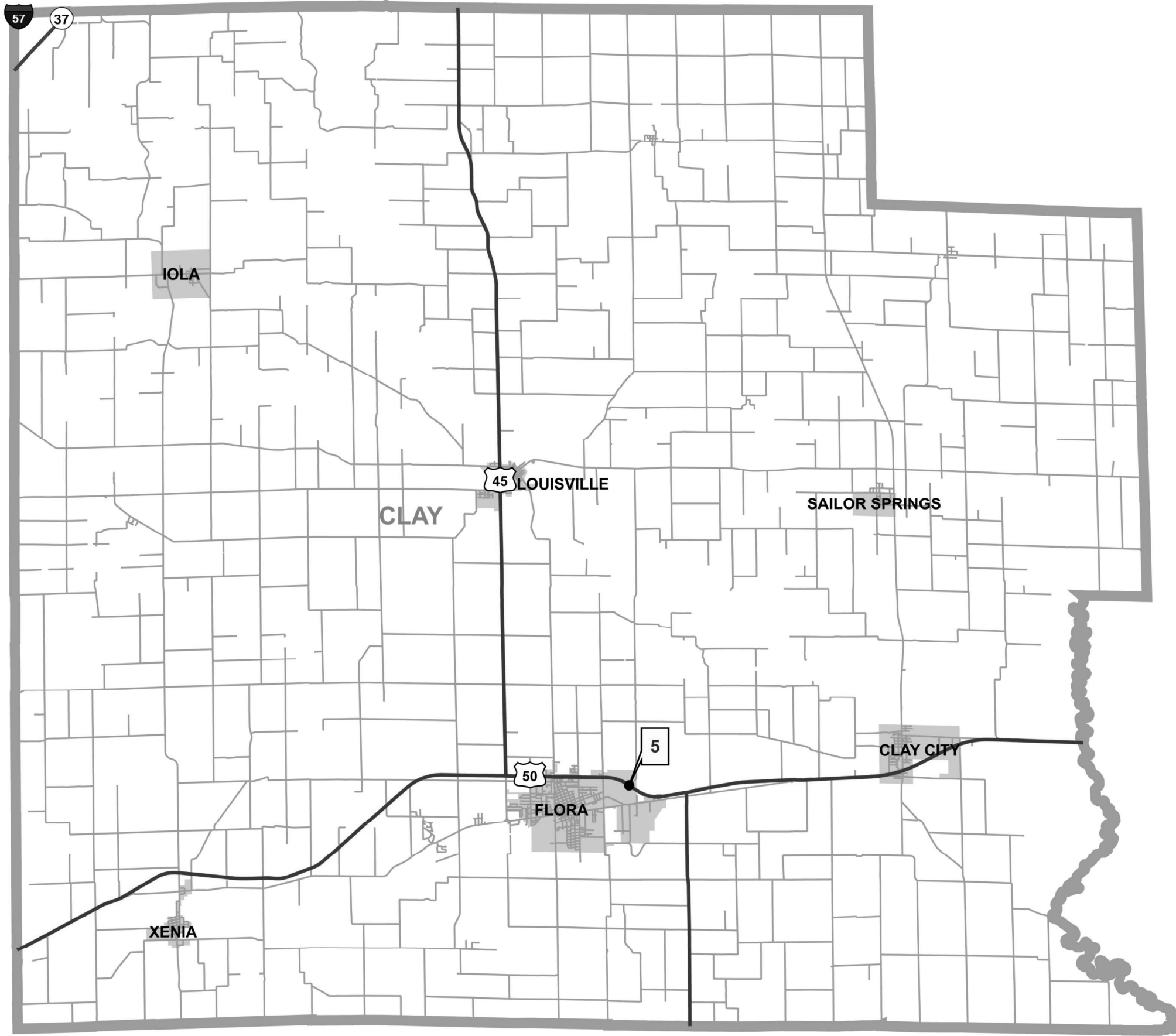
MODEL: Default
 FILE: \\nafe-pw-bentley.com\P\DOT\Documents\DOT Office\District 7\Project\74C06\CADDData\CAD\Sheet\74C06-sht-6.dgn

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	6
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE NAME: p:\project-aw-beadefy.com\PIV\DOT\Documents\DOT Office\District 7\Project\74C06\CADD\DATA\CAD\Sheet\74C06-sht-7.dgn

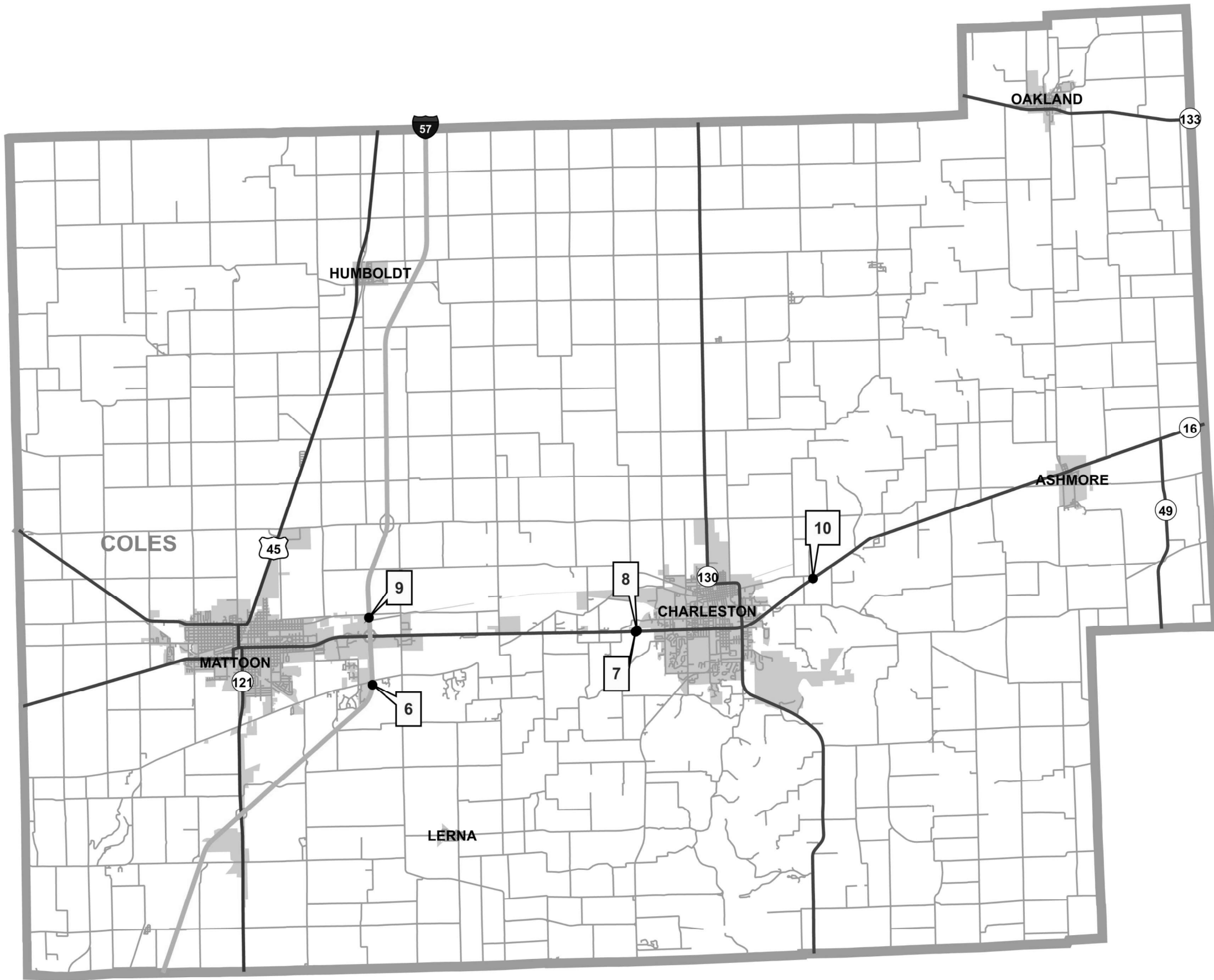
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLAY COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	7
CONTRACT NO. 74C06				



MODEL: Default
 FILE: \\nafe-pw-bentley.com\P\I\DOT\Documents\DOT Office\District 7\Project\74C06\CADD\DATA\CAD\Sheet\74C06-sht-8.dgn

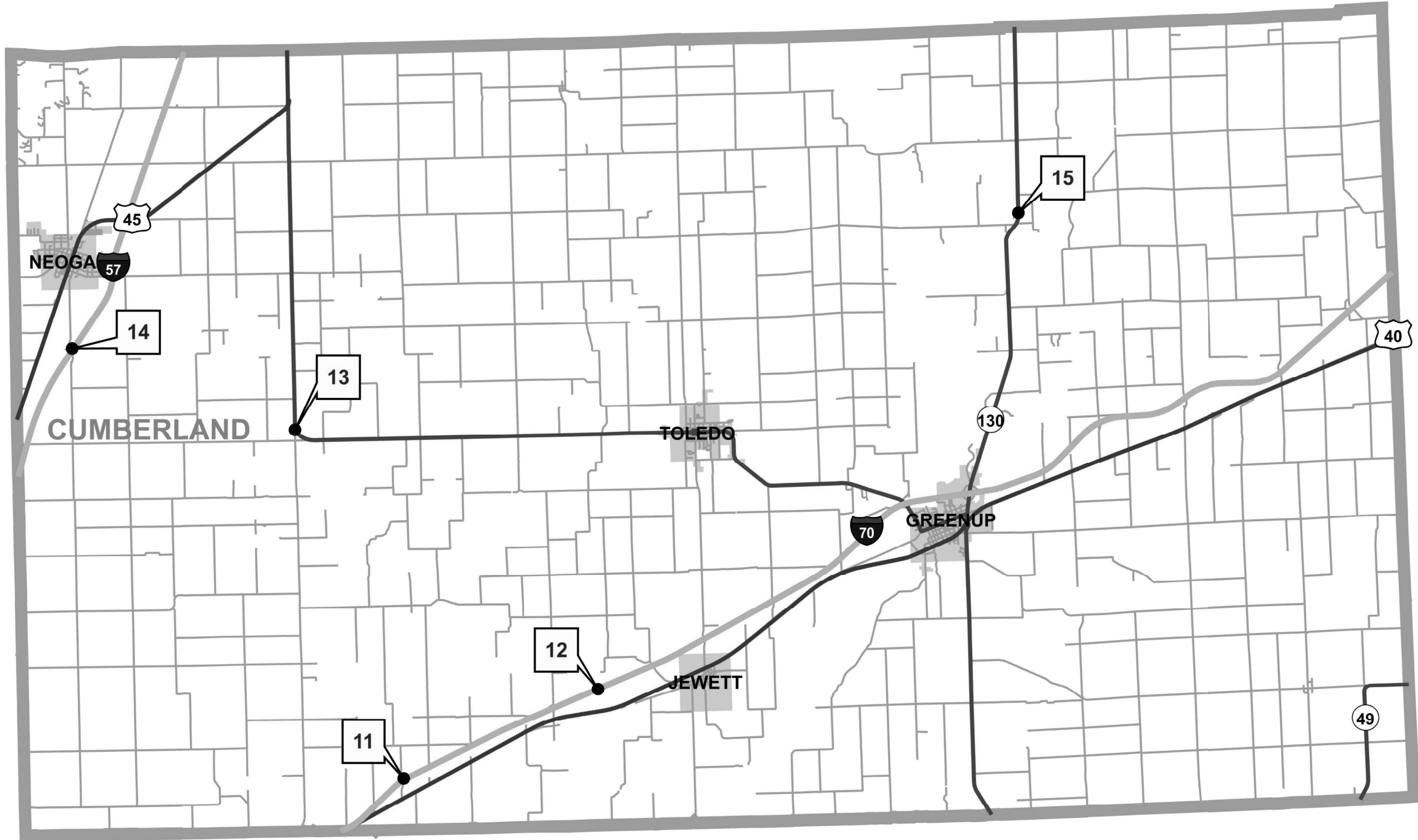
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COLES COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	8
CONTRACT NO. 74C06				



MODEL: Default
 FILE: \\mdepcw.bea.com\PIV\DOT\Documents\DOT Office\District 7\Project\74C06\CADD\Drawings\Drawings\74C06-sht-9.dgn

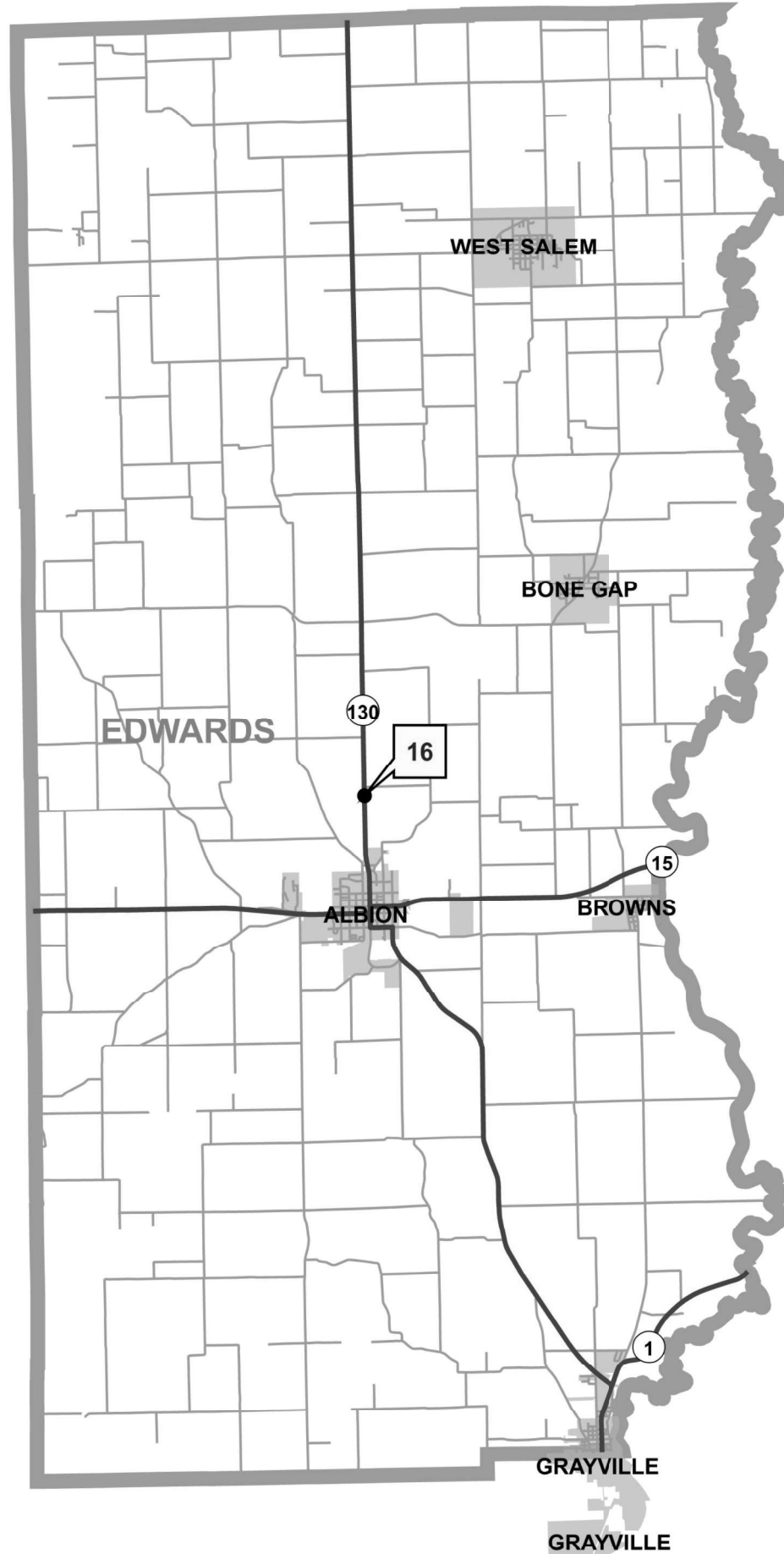
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CUMBERLAND COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	9
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE: \\mdepc-pw-bentley.com\P\W\DOT\Documents\DOT Office\District 7\Projects\74C06\CADD\DATA\CAD\Sheet\74C06-sht-10.dgn

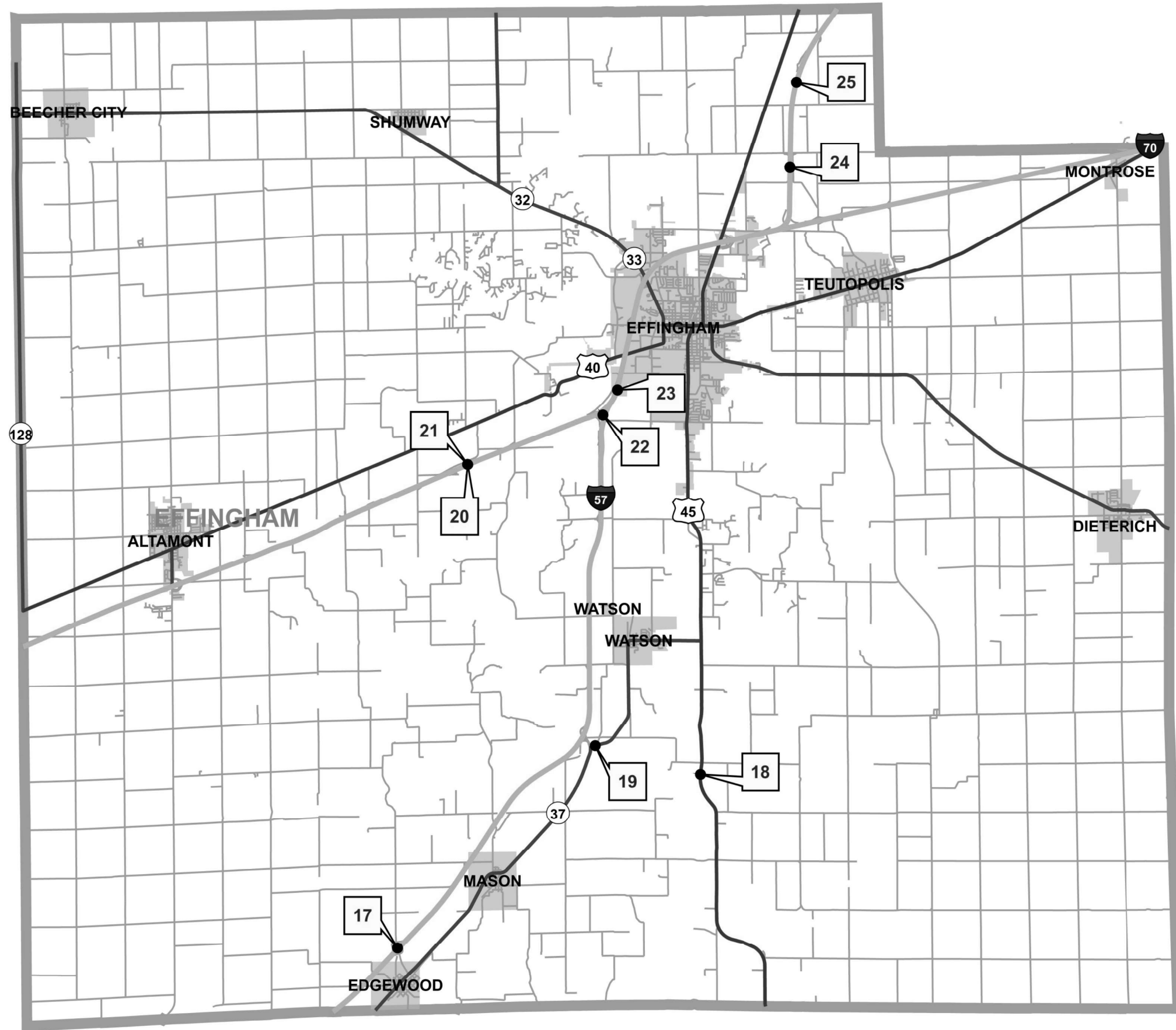
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EDWARDS COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	10
CONTRACT NO. 74C06				
		ILLINOIS	FED. AID PROJECT	



MODEL: Default
 FILE: \\mafe-pw-bentley.com\P\I\DOT\Documents\DOT_Offices\District_7\Project\74C06\CADD\DATA\CAD\Sheet\74C06-sht-11.dgn

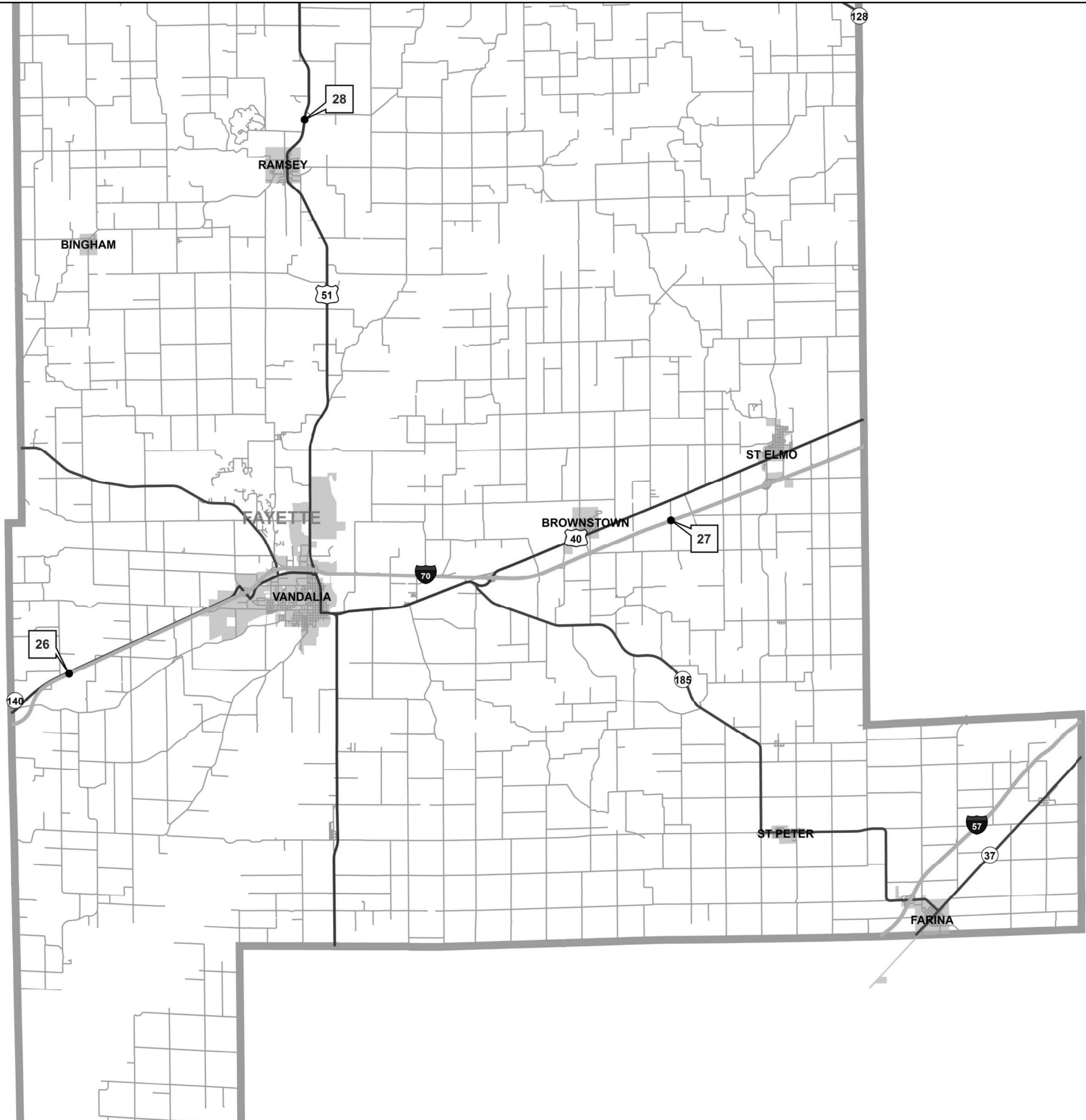
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EFFINGHAM COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	11
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE NAME: p:\project-aw-bead\paw.com\p\INDOT\Documents\DOT_Offices\District_7\Project\74C06\CADD\Drawings\74C06-sht-12.dgn

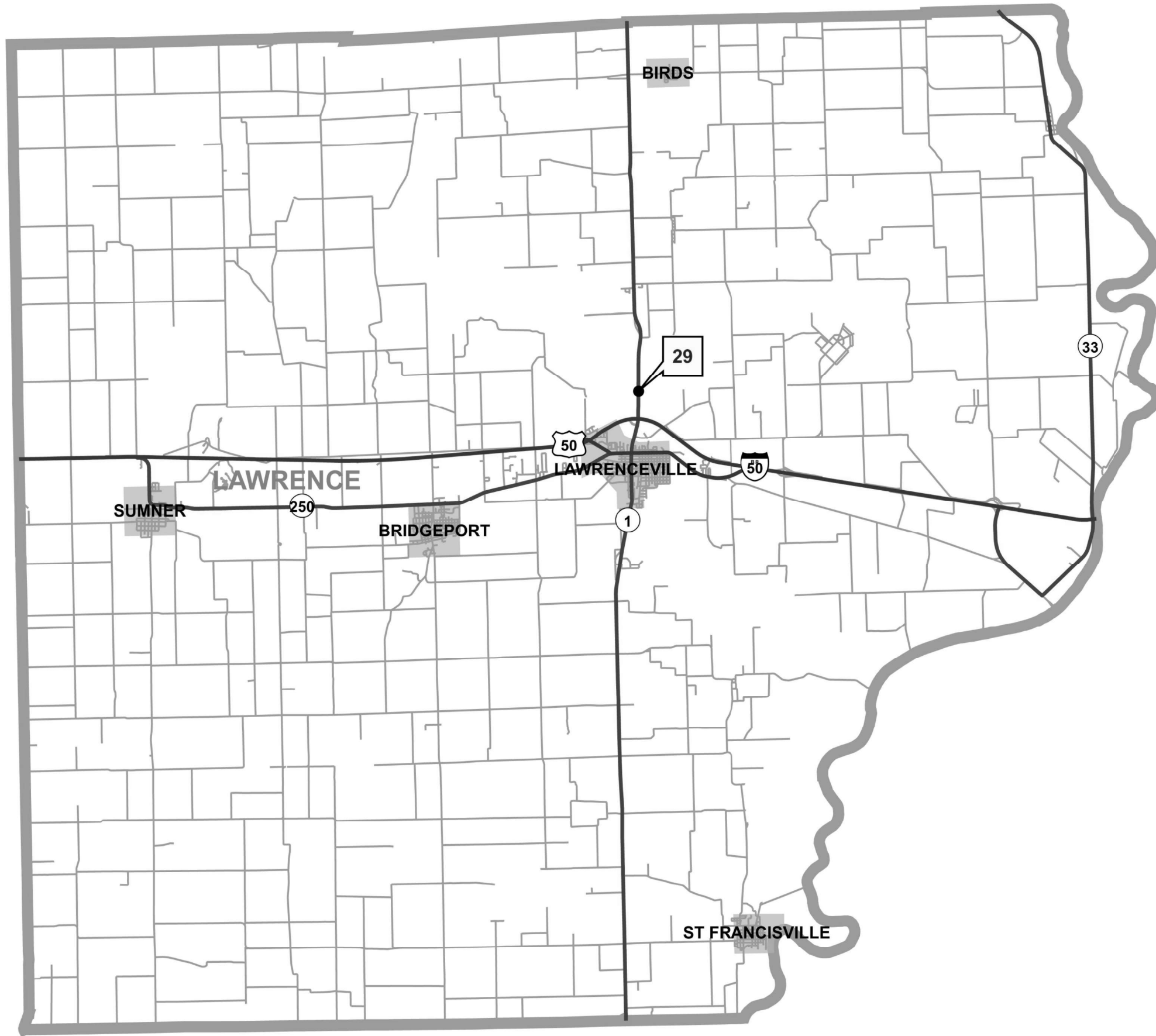
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	12
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE NAME: p:\project-aw-beadefy.com\PIV\DOT\Documents\DOT Offices\District 7\Project\74C06\CADD\DATA\CAD\Sheet\74C06-sht-13.dgn

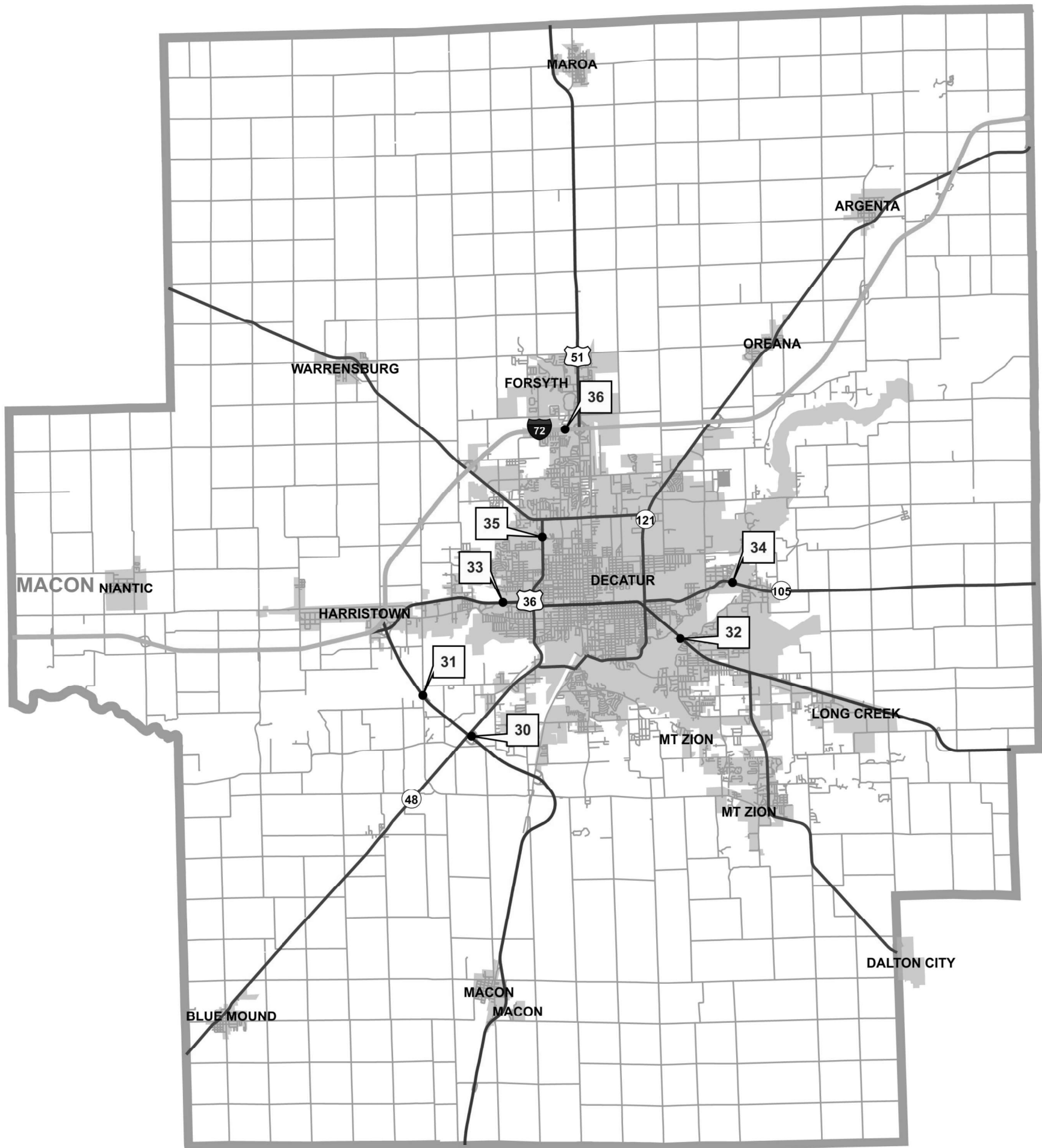
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAWRENCE COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	13
CONTRACT NO. 74C06				



MODEL: Default
 FILE: \\macon\pwworkspace\ben\pwworkspace\74C06\CADD\Drawings\DOT\Drawings\Sheet\74C06-31.dgn

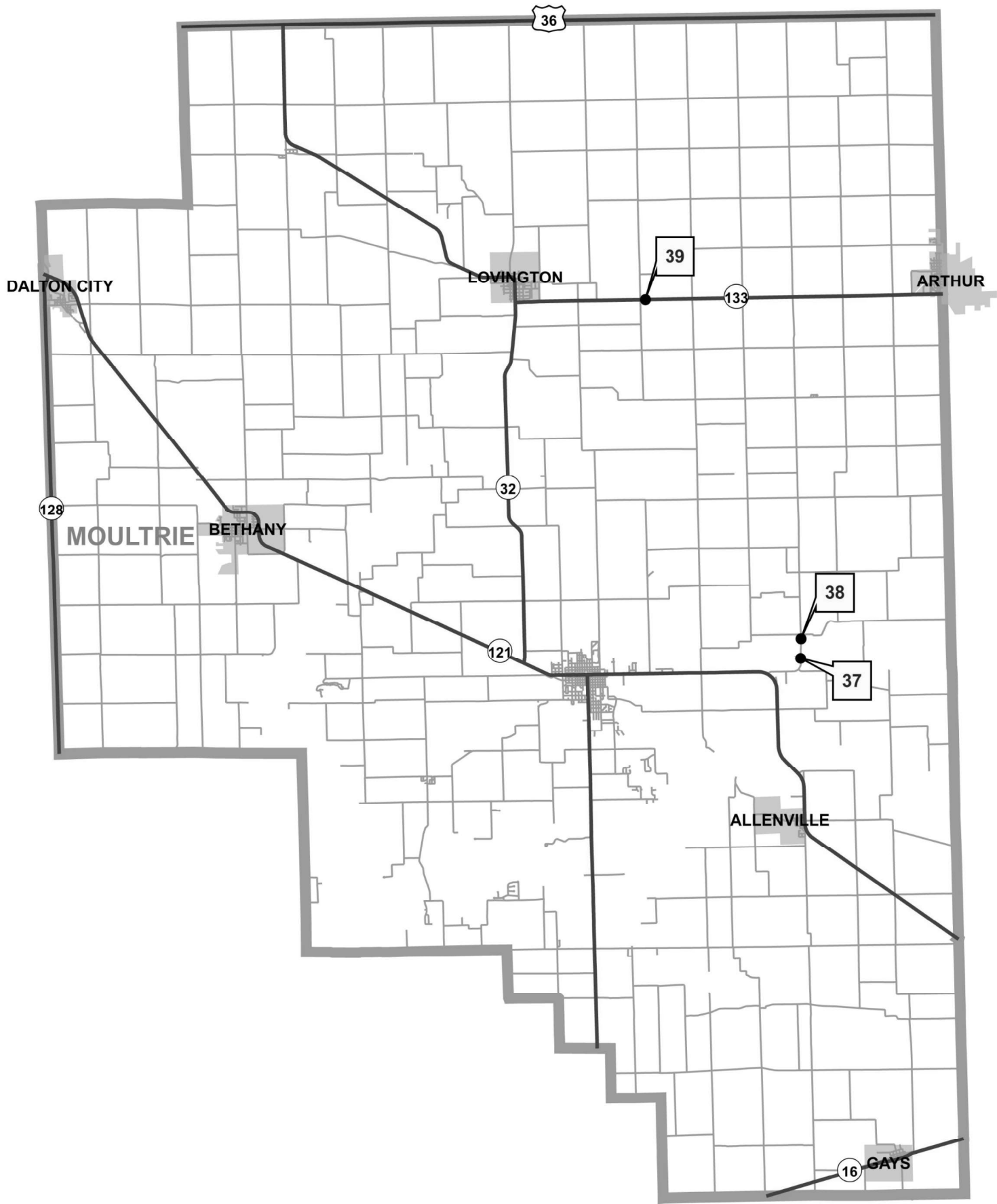
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET OF SHEETS		STA.	TO STA.

MACON COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*		19	14
			CONTRACT NO. 74C06	
ILLINOIS FED. AID PROJECT				



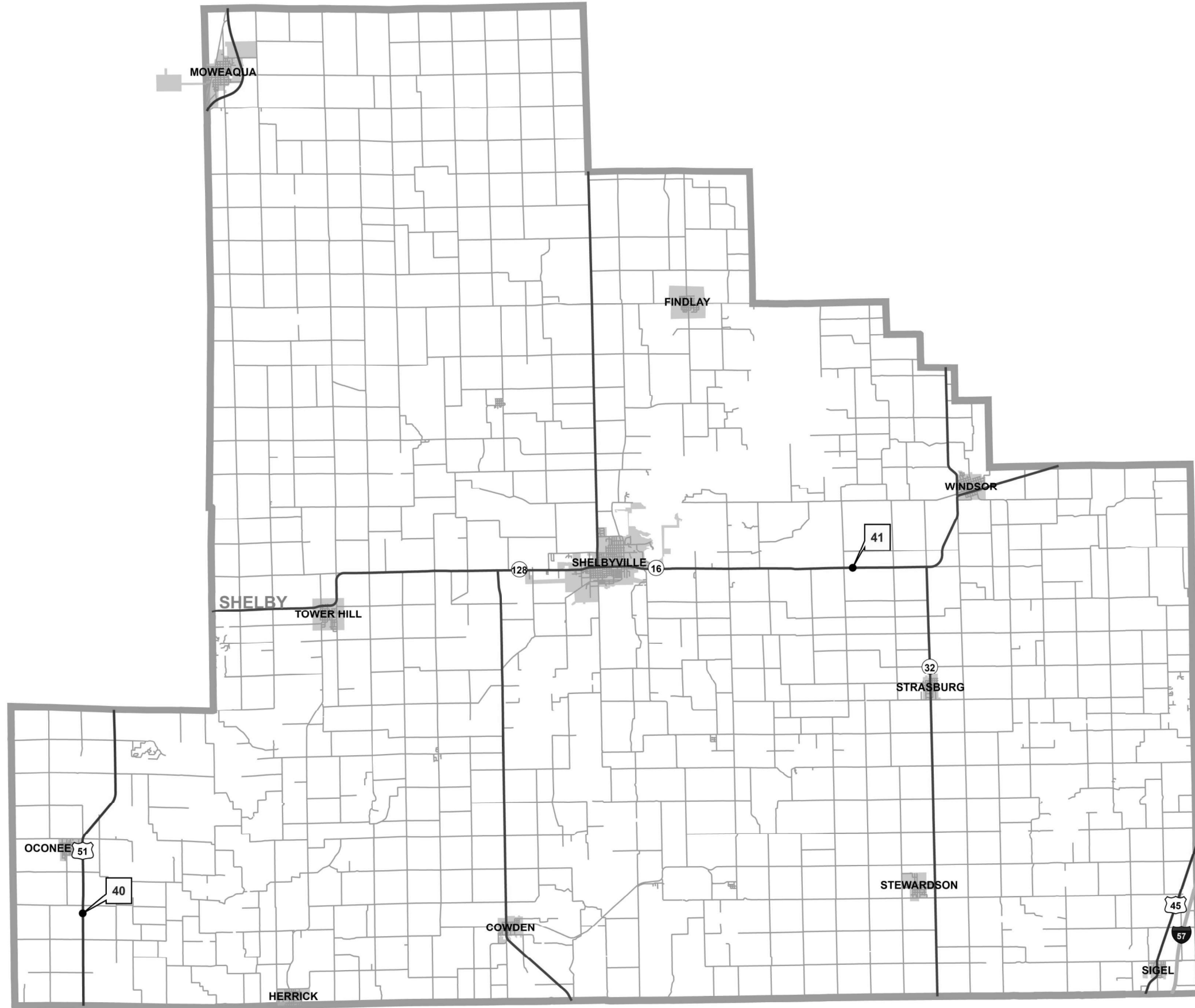
MODEL: Default
 FILE: M:\MFC_Plan\Subsect-pw-bead-fwy.com\PIV\DOT\Documents\DOT_Offices\District_7\Projects\74C06\CADDData\CAD\Sheet\74C06-sht-15.dgn

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	15
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE NAME: p:\shelby\shelby.dwg
 PROJECT: 74C06
 SHEET: 16 of 19

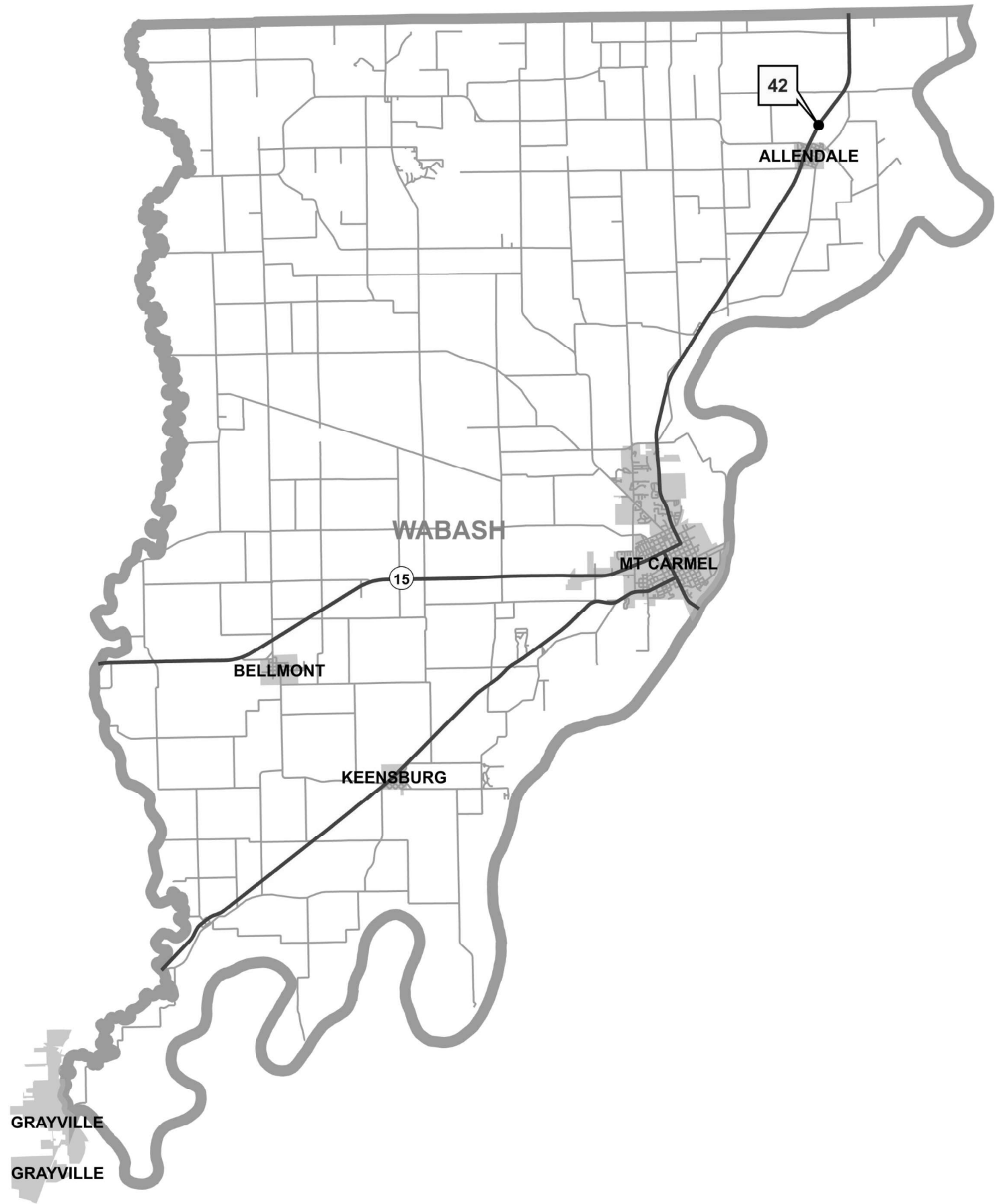
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHELBY COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	16
CONTRACT NO. 74C06				



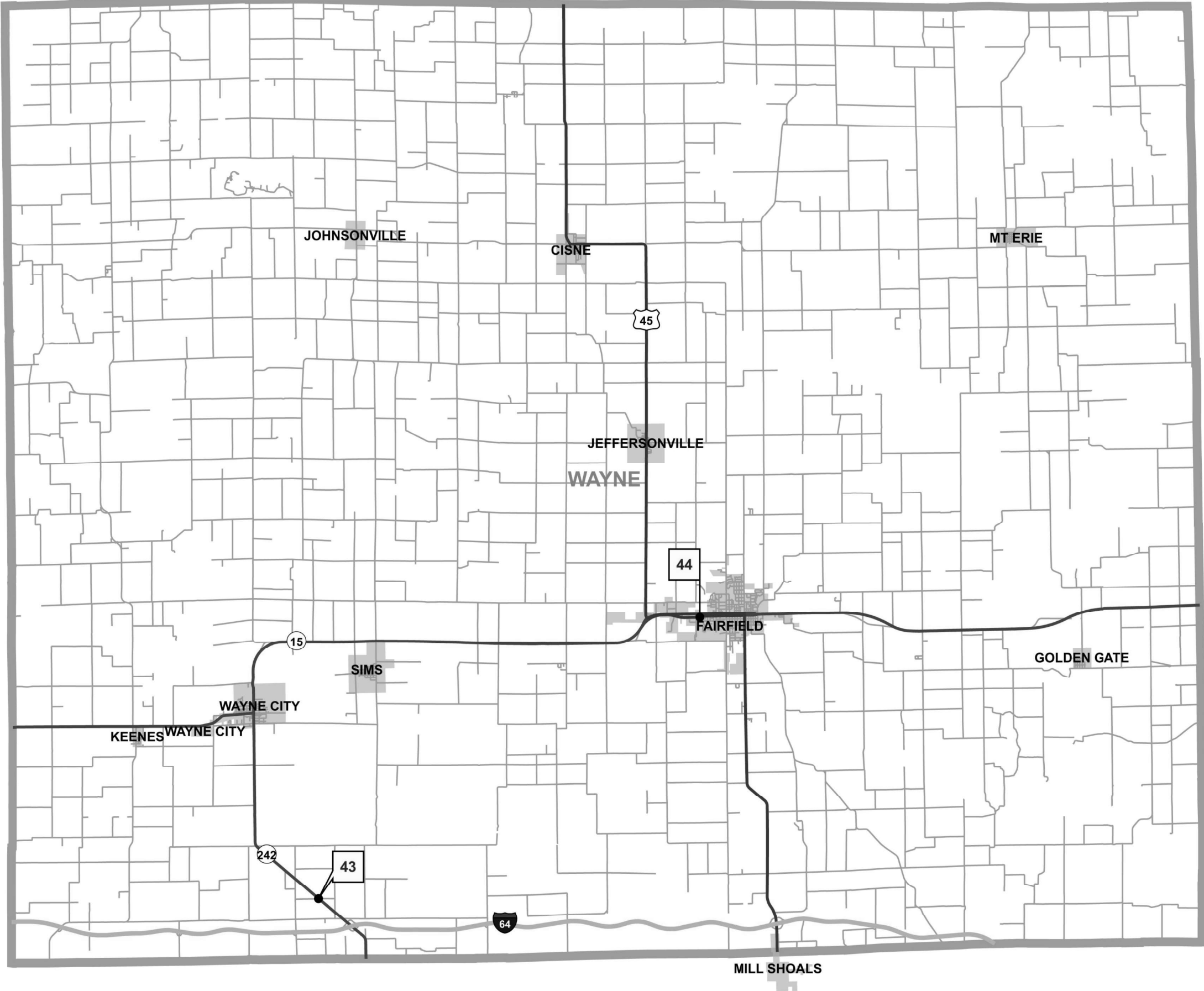
MODEL: Default
 FILE: \\mdepc-pw-bentley.com\P\W\DOT\Documents\DOT Office\District 7\Project\74C06\CADD\DATA\CAD\Sheet\74C06-sht-17.dgn

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	17
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE: \\nafe-pw-bentley.com\P\INDOT\Documents\INDOT Office\District 7\Project\74C06\CADDData\CAD\Sheet\74C06-sht-18.dgn

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2023	DATE -	REVISED -

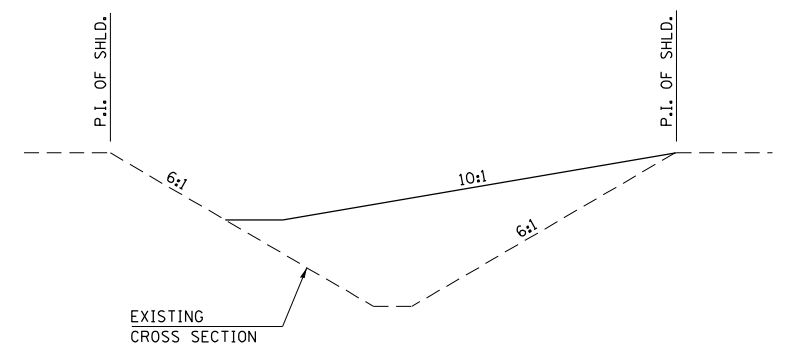
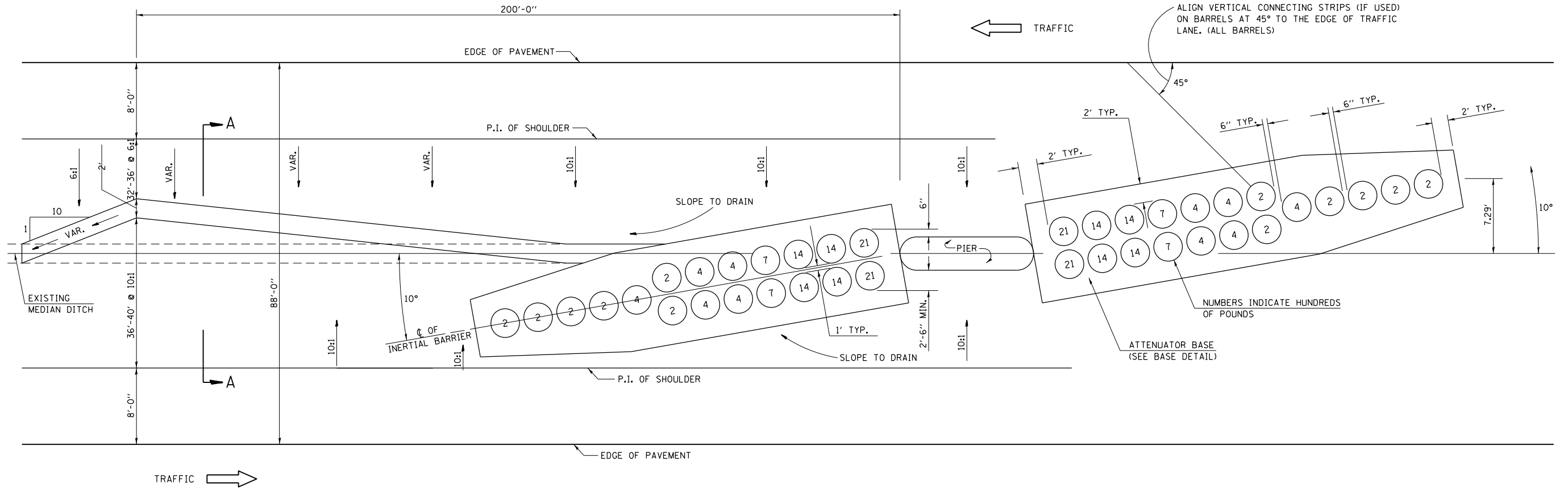
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WAYNE COUNTY

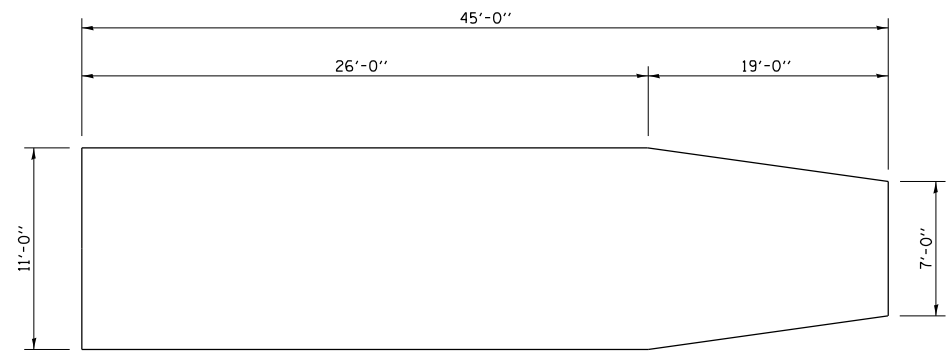
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	18
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				

† D7 GUARDRAIL 2023-2



**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

MODEL: Default
FILE: NAME: p:\subect-pw-bentley.com\PIV\DOT\Documents\DOT Office\Director_7\Project\74C06\CADDData\CAD\Sheet\74C06-sh-detailed.dgn

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/6/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING SAND BARREL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	VARIOUS	19	19
CONTRACT NO. 74C06				
ILLINOIS FED. AID PROJECT				
* D7 GUARDRAIL 2023-2				