

06-15-2018 LETTING ITEM 106

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

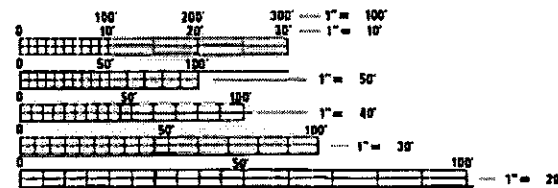
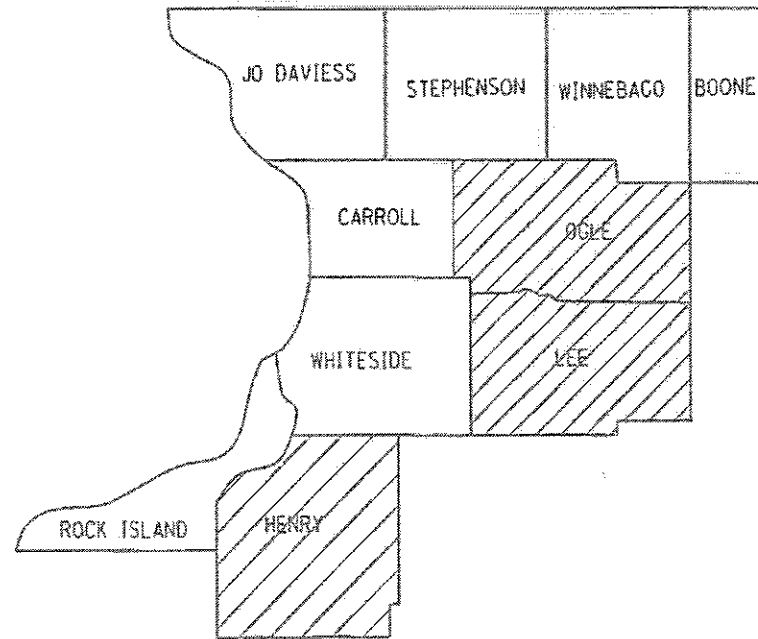
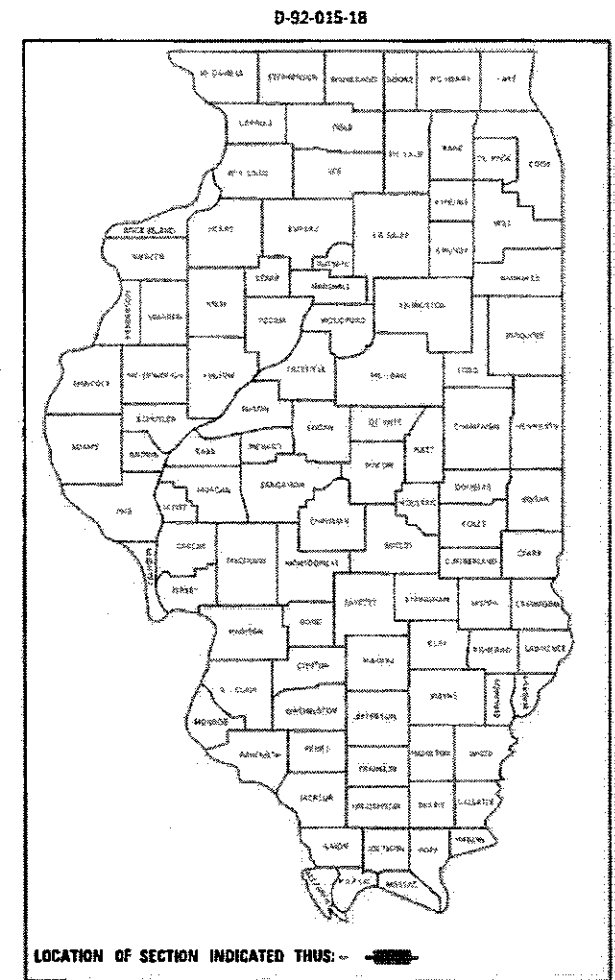
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D2 BC 2018-5	VARIOUS	17	1
ILLINOIS		CONTRACT NO. 64M70	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION D2 BC 2018-5
PROJECT: STP-78UQ(144)
TYPE of IMPROVEMENT
VARIOUS COUNTIES

C-92-019-18



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: DAVID DOSS (815) 284-5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64M70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13, 2018
[Signature]
REGIONAL ENGINEER

May 11, 2018
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 17, 2018
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS & STATE STANDARDS
- 3 SUMMARY OF QUANTITIES
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- 5 LOCATION MAP HENRY COUNTY
- 6 LOCATION MAP LEE COUNTY
- 7 LOCATION MAP OGLE COUNTY
- 8 DISTRICT STANDARD 35.1
- 9-12 DISTRICT STANDARD 38.1

STATE STANDARDS

- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS, \geq 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-11 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS \geq 45 TO 55 MPH
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701901-07 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & STATE STANDARDS	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D2 BC 2018-5	VARIOUS	12	2
CONTRACT NO. 64M70				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

Paycode	Description	Units	Quantity		Total
			BRIDGE 0047		
			STP > 200K 80% FEDERAL 20% STATE		
			Urban	Rural	
59200101	BRIDGE WASHING NO. 1	EACH	1		1
59200102	BRIDGE WASHING NO. 2	EACH	1		1
59200103	BRIDGE WASHING NO. 3	EACH	1		1
59200104	BRIDGE WASHING NO. 4	EACH	1		1
59200105	BRIDGE WASHING NO. 5	EACH	1		1
59200106	BRIDGE WASHING NO. 6	EACH	1		1
67100100	MOBILIZATION	L SUM	1		1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM		1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1		1
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**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.
VAR.	D2 BC 2018-5	VARIOUS	12	3
			CONTRACT NO. 64M70	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

Pay Item	Project Location	SN	Facility Carried	Feature Crossed	Bridge Location	Traffic Control
BRIDGE WASHING NO. 1	1	037-0021	FAI 80 SB	Rock River	At Rock Island Co. Line	701400 701406
BRIDGE WASHING NO. 2		037-0022	FAI 80 NB	Rock River	At Rock Island Co. Line	701400 701406
BRIDGE WASHING NO. 3	2	037-0149	IL 92	Rock River	1.0 MI East of Joslin	701201
BRIDGE WASHING NO. 4	3	037-0128	IL 84	Rock River	At Rock Island Co. Line	701421 DIST STD 38.1
BRIDGE WASHING NO. 5	4	052-0063	IL 2	Rock River	South edge of Grand Detour	701201
BRIDGE WASHING NO. 6	5	071-0088	IL 64	Rock River	East of IL 2 in Oregon	701606 DIST STD 35.1 DIST STD 38.1

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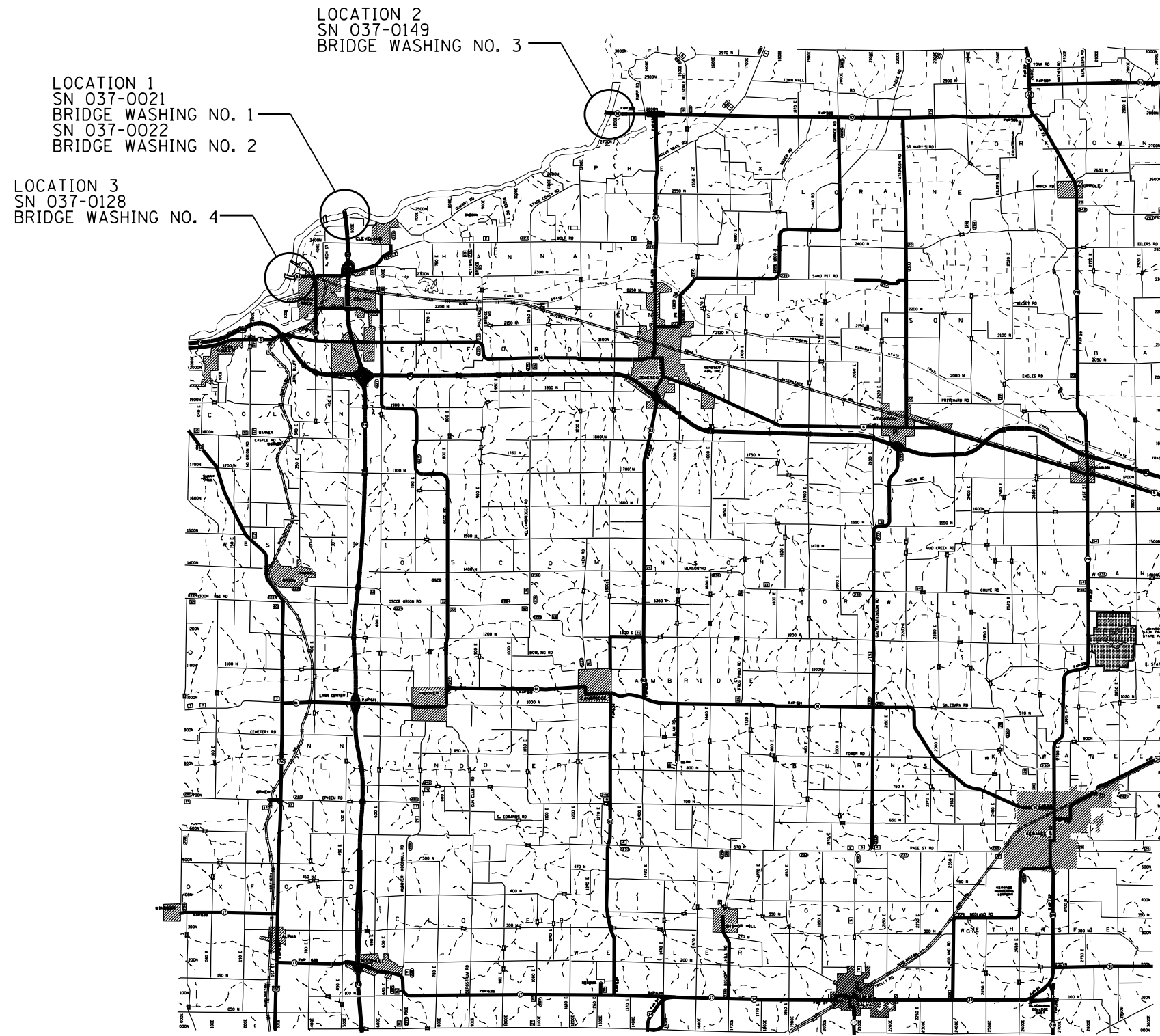
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D2 BC 2018-5	VARIOUS	12	4
CONTRACT NO. 64M70				
ILLINOIS		FED. AID PROJECT		

HENRY COUNTY



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HENRY COUNTY
LOCATION MAP

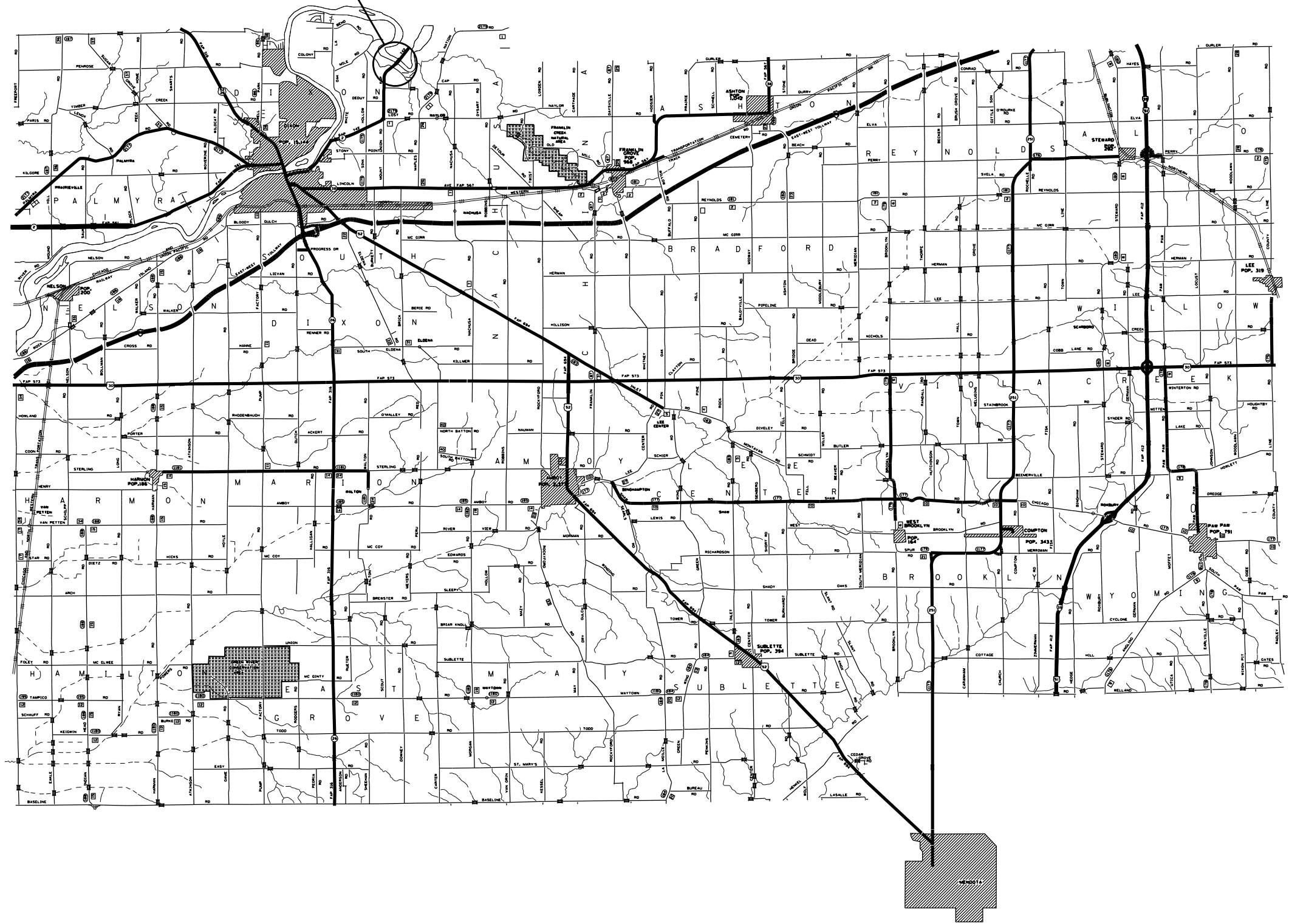
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D2 BC 2018-5	VARIOUS	12	5
			CONTRACT NO. 64M70	
		ILLINOIS	FED. AID PROJECT	

LEE COUNTY



LOCATION 4
SN 052-0063 BRIDGE WASHING NO. 5



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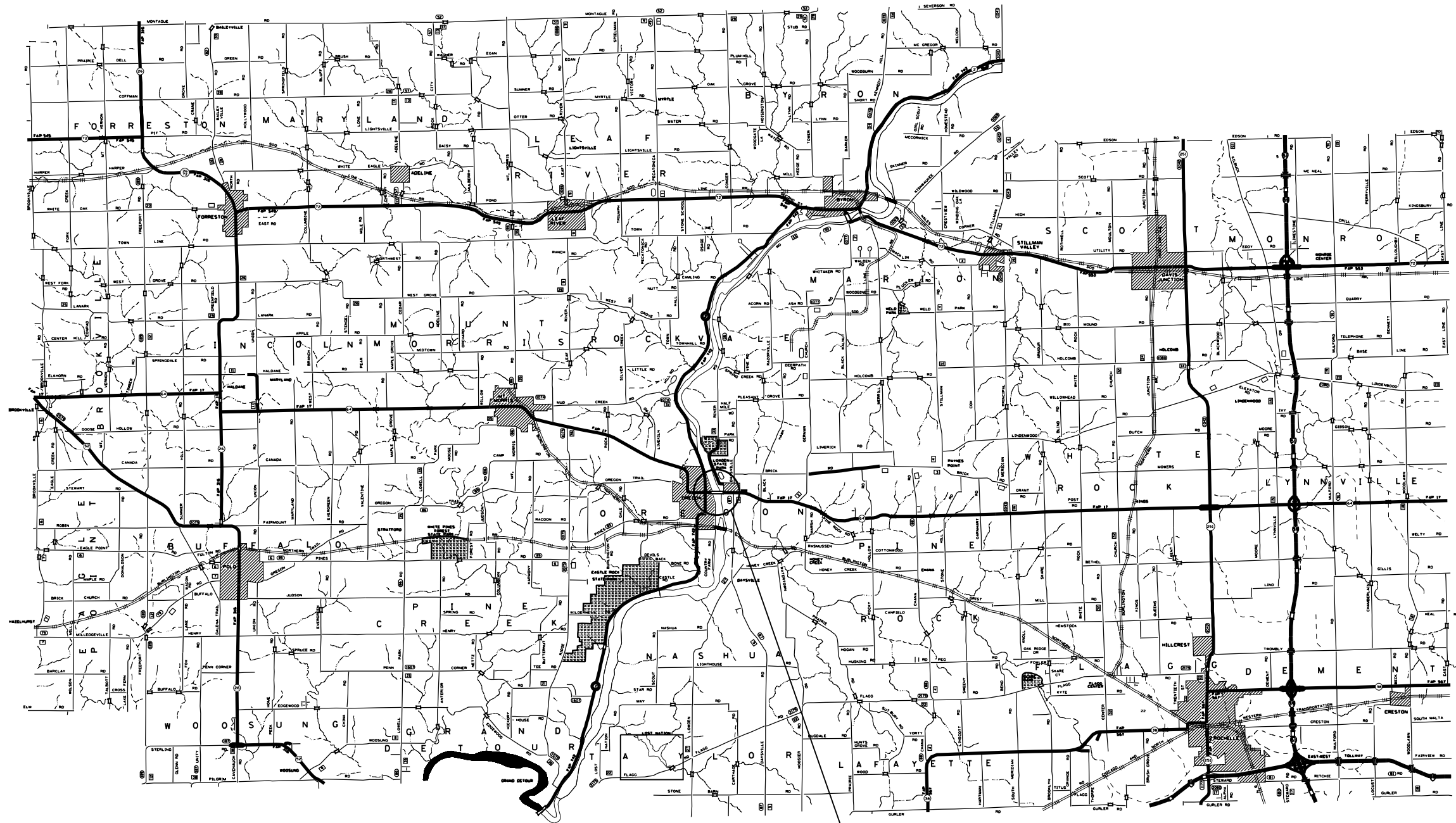
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LEE COUNTY LOCATION MAP	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D2 BC 2018-5	VARIOUS	12	6
CONTRACT NO. 64M70				
ILLINOIS FED. AID PROJECT				

OGLE COUNTY



LOCATION 5
SN 071-0088
BRIDGE WASHING NO. 6

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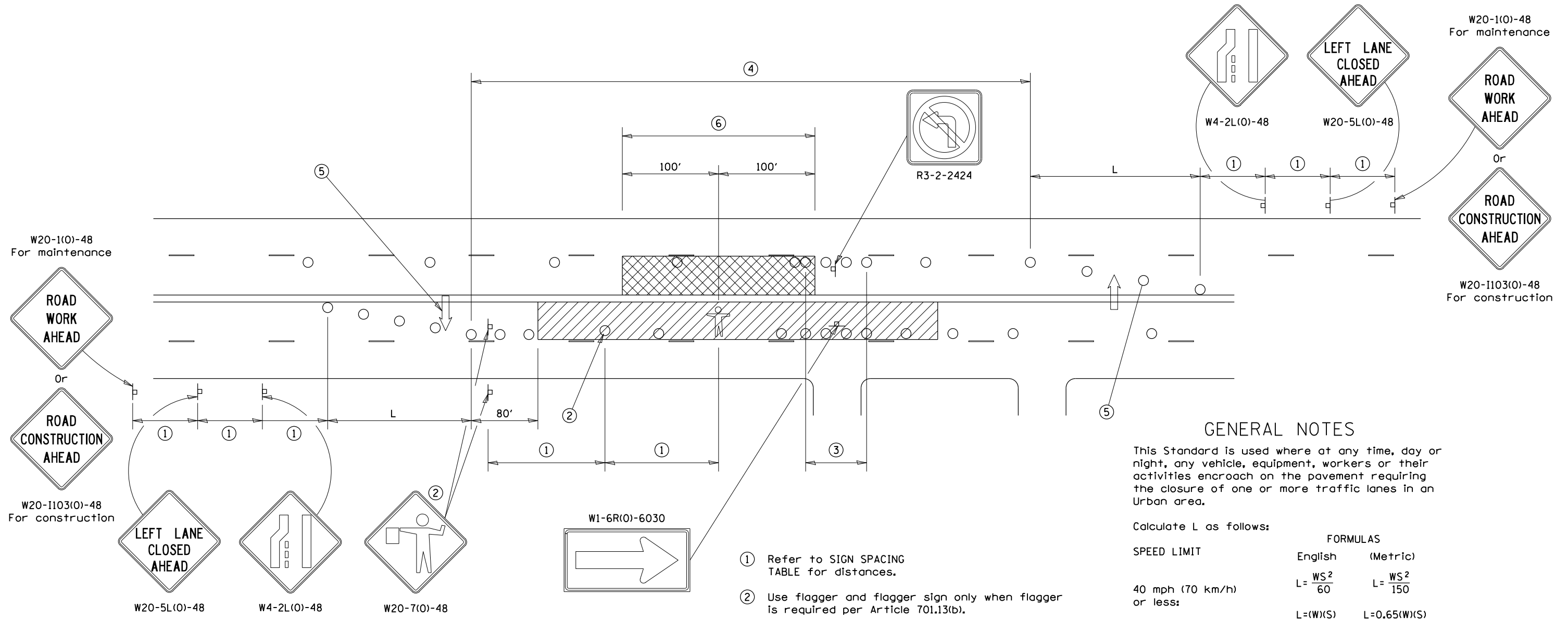
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OGLE COUNTY
LOCATION MAP

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D2 BC 2018-5	VARIOUS	12	7
CONTRACT NO. 64M70				
ILLINOIS FED. AID PROJECT				

URBAN LANE INSIDE CLOSURE, MULTILANE, 2-WAY, WITH MOUNTABLE MEDIAN



GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an Urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Lane closures in the opposite direction shall be removed when no workers are present.

Cones or reflectorized cones shall not be used during hours of darkness.

This Traffic Control detail shall be included in the cost of Traffic Control and Protection Standard 701606.

SYMBOLS

- WORK AREA
- CLOSED LANE
- ARROW BOARD
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- CONE, DRUM OR BARRICADE
- FLAGGER WITH TRAFFIC CONTROL SIGN.
- WORKER ON FOOT

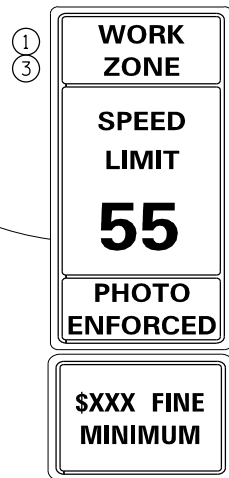
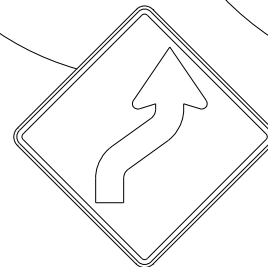
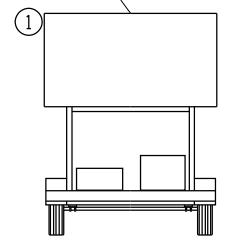
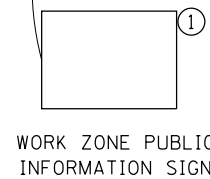
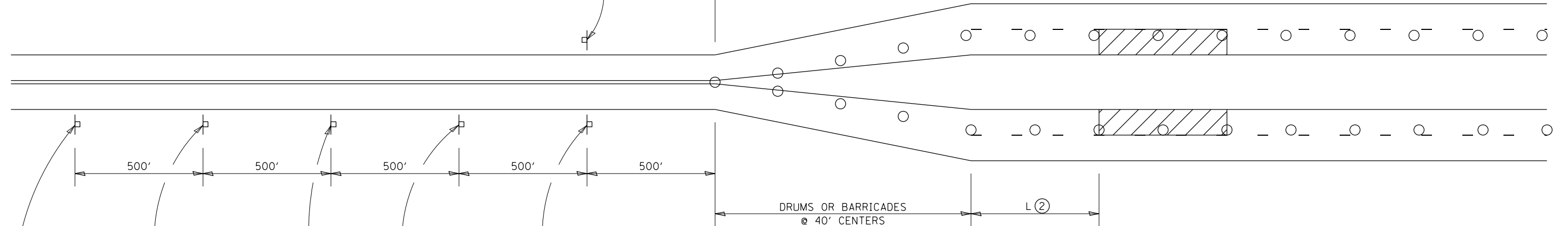
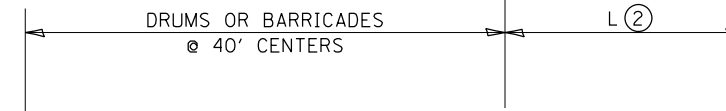
SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

- ① Refer to SIGN SPACING TABLE for distances.
- ② Use flagger and flagger sign only when flagger is required per Article 701.13(b).
- ③ Devices at 10' centers from edge of radius return to edge of radius return when left turns are prohibited due to actively working in the intersection.
- ④ Cones at 20' (6 m) centers for 250' (75 m). Additional cones may be placed at 40' (12 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled (excluding devices in intersections).
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑥ No equipment, materials, vehicles, or other hazards are allowed in the closed lane in the opposite direction within 100' of a worker on foot.

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 1

SIGNS, DEVICES & FLAGGERS ACCORDING TO APPLICABLE TRAFFIC CONTROL STANDARDS



W2-1115(0)-3618
R2-1-3648
R10-1108p-3618 (only along roadways under the jurisdiction of the State.)
R2-1106-3618

SIGNS, DEVICES & FLAGGERS ACCORDING TO APPLICABLE TRAFFIC CONTROL STANDARDS

GENERAL NOTES
THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable, Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

○ DRUMS OR BARRICADES WITH LIGHTS

▨ WORK AREA

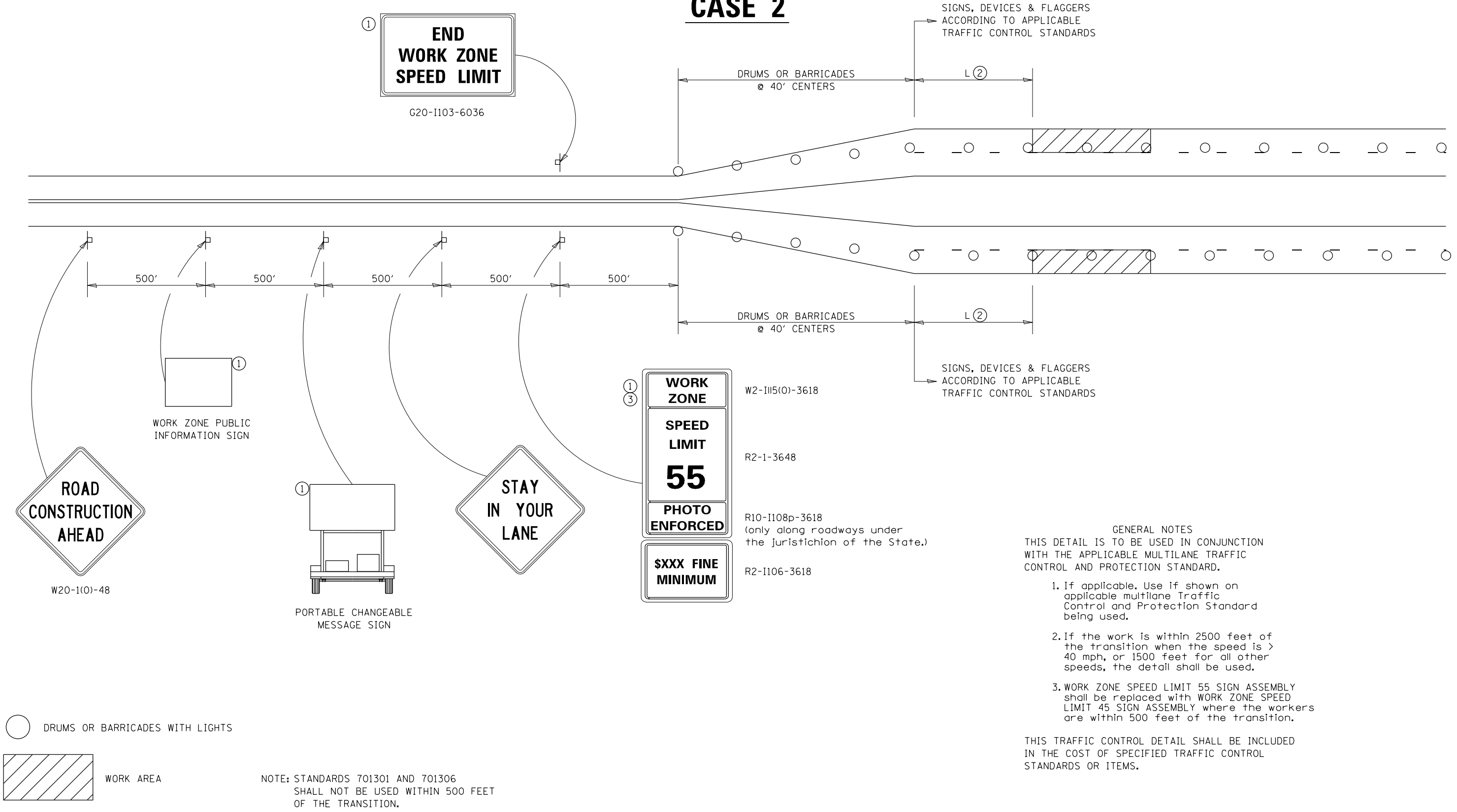
NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

* DEPENDS ON GEOMETRICS OF THE TRANSITION. MAY SWITCH THE "STAY IN YOUR LANE" AND "WEAVE SIGNS"

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Feb-27-2018 01:37:50 PM	DATE -	REVISION	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR TRANSITION AREAS

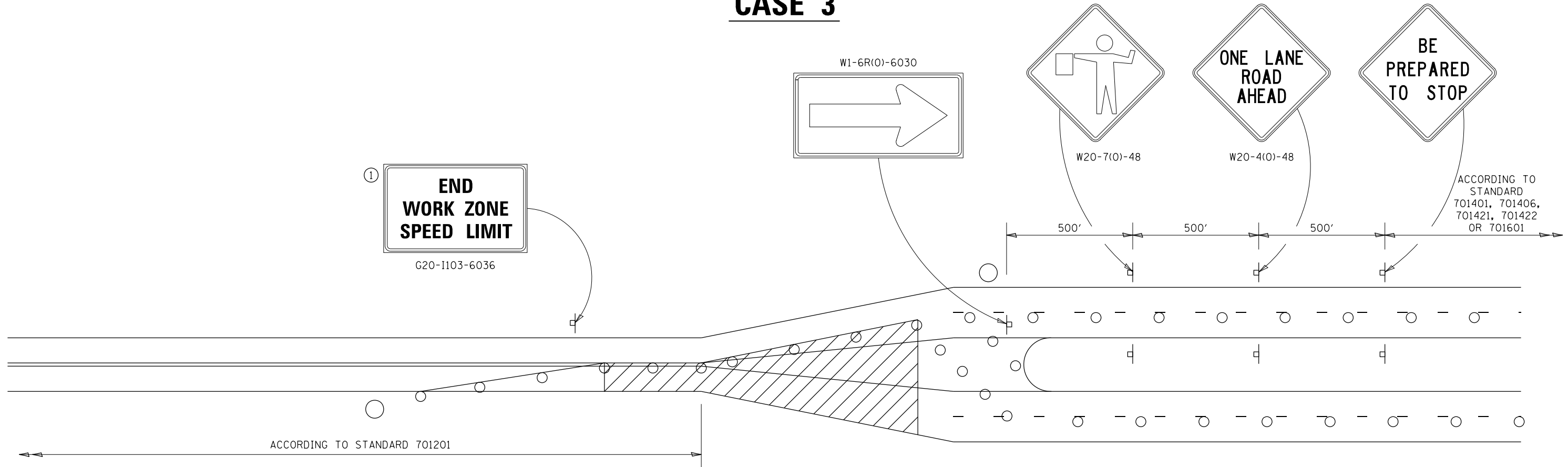
CASE 2



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN -						CONTRACT NO. 64M70	VAR.	D2 BC 2018-5	VARIOUS	12	10
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PLOT DATE = Feb-27-2018 01:38:00 PM		DATE -	REVISED - 1-16-13								

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 3



GENERAL NOTES
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable, Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

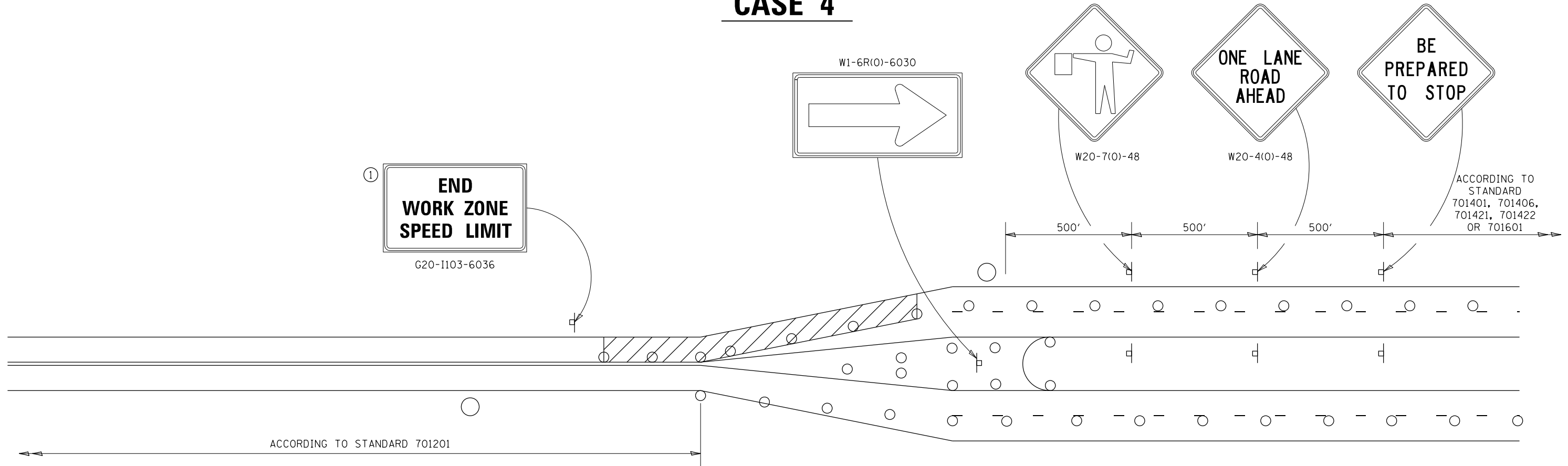
- FLAGGER WITH TRAFFIC CONTROL SIGN
- DRUMS OR BARRICADES WITH LIGHTS
- WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
							VAR.	D2 BC 2018-5	VARIOUS	12	11
							CONTRACT NO. 64M70		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
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TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 4



GENERAL NOTES
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable, Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

- FLAGGER WITH TRAFFIC CONTROL SIGN
- DRUMS OR BARRICADES WITH LIGHTS
- WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
DRAWN BY: [Name]						SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. _____ TO STA. _____	D2 BC 2018-5	VARIOUS	12	12
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