

076

06-14-2019 LETTING ITEM 076

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57	D3 INTERMITTENT RS 2019-2	IROQUOIS	9	1
		ILLINOIS	CONTRACT NO. 66K24	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
- 3 - 4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6 - 7 SCHEDULES
- 8 DETAILS
- 9 STANDARD 701400 (SPECIAL)

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 642001-02 SHOULDER RUMBLE STRIPS, 16 INCH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION.
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS \geq 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY

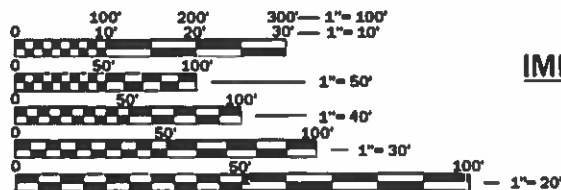
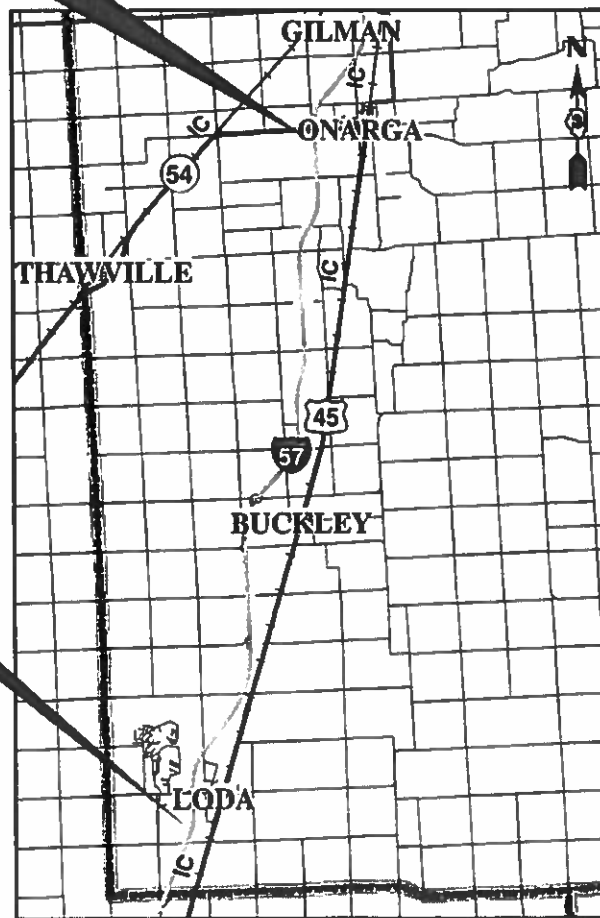
PROPOSED HIGHWAY PLANS

FAI ROUTE I-57 (I-57)
SECTION D3 INTERMITTENT RS 2019-2
PROJECT NHPP U7U(533)
INTERMITTENT RESURFACING
IROQUOIS COUNTY

IMPROVEMENT ENDS
MP 280

D-93-089-19
C-93-109-19

IMPROVEMENT BEGINS
MP 265

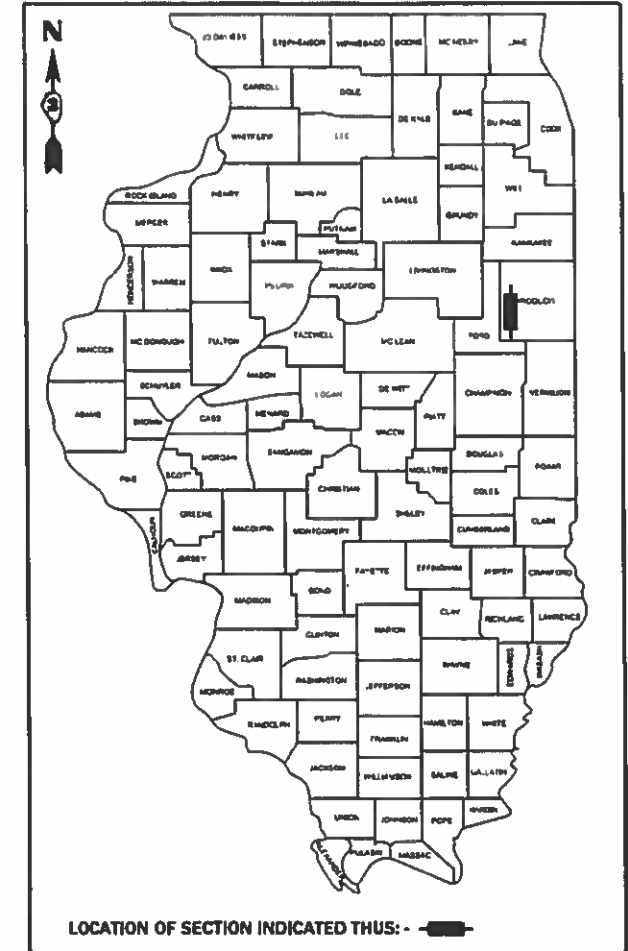


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - BRAD DUNCAN, P.E.
UNIT CHIEF - LUIS CALDERON, P.E.
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66K24

GROSS LENGTH = 15.0 MILES
NET LENGTH = 4.49 MILES



LOCATION OF SECTION INDICATED THIS: -

FUNCTIONAL CLASSIFICATION:
RURAL INTERSTATE
2017 ADT = 17400
MU = 31% SU = 8.1% PV = 60.9%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 03/28 2019
Louis Calderon
REGIONAL ENGINEER

May 10 2019
cc A ETC
ENGINEER OF DESIGN AND ENVIRONMENT

May 10 2019
Brad Duncan
DIRECTOR OF HIGHWAY PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE EXIT AND ENTRANCE RAMPS FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, ITS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *Tom Benoit*
DISTRICT STUDIES & PLANS ENGINEER

DATE: 3-29-19

EXAMINED BY: *Kyle Vidge AH*
DISTRICT CONSTRUCTION ENGINEER

Michael Short CA
DISTRICT MATERIALS ENGINEER

Tom Hagedorn
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = calderoni	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/28/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57	D3 INTERMITTENT RS 2019-2	IROQUOIS	9	2
CONTRACT NO. 66K24				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				NHPP	
				90%FED	10%STATE
				ROADWAY	RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7820		7820
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3		3
40603085	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70	TON	784		784
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	784		784
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	486		486
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	676		676
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	10380		10380
44000173	HOT-MIX ASPHALT SURFACE REMOVAL, 6"	SQ YD	4665		4665
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	20992		20992
67100100	MOBILIZATION	L SUM	1		1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6		6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28		28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2373		2373
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	792		792

* SPECIALTY ITEM

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	PLOT DATE = 3/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

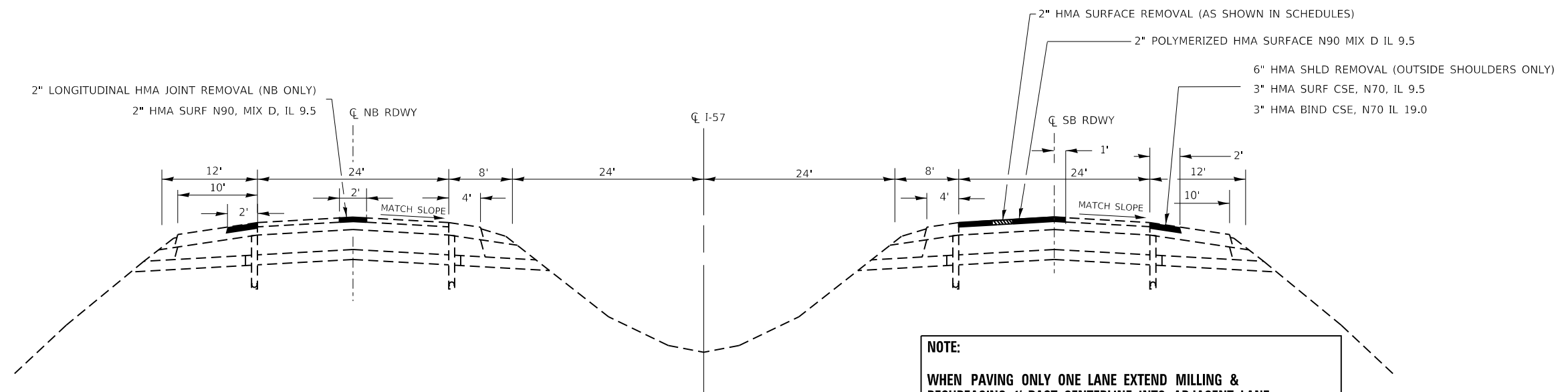
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57	D3 INTERMITTENT RS 2019-2	IROQUOIS	9	3
			CONTRACT NO. 66K24	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				NHPP	
				90%FED	10%STATE
				ROADWAY	RURAL
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8360	8360	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11880	11880	
* 78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	5940	5940	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	4180	4180	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	602	602	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	602	602	
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOURL	200	200	
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	1	1	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4365	4365	
X7010805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	L SUM	1	1	
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	4180	4180	
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	5940	5940	

* SPECIALTY ITEM

FILE NAME =	USER NAME = calderoni	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 3/28/2019	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.						



TYPICAL SECTION I-57

M.M. 265.0 TO M.M. 280.0
BRIDGE STRUCTURES ON I-57 SHALL BE OMITTED

NOTE:
WHEN PAVING ONLY ONE LANE EXTEND MILLING & RESURFACING 1' PAST CENTERLINE INTO ADJACENT LANE
INTERMITTENT RESURFACING LOCATIONS SHOWN IN SCHEDULES

HMA MIXTURE REQUIREMENT TABLE

	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE	HMA CENTERLINE REPAIR	HMA SHOULDER BOTTOM LIFT(S)	HMA SHOULDER TOP LIFT(S)
BINDER GRADE (PG):	PG 70-28	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N90	4.0% @ N90	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:	MIXTURE D	MIXTURE D		MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	NA	NA	NA	NA
DENSITY TEST METHOD:	CORES	CORES/CORRELATION	CORES	CORES/CORRELATION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

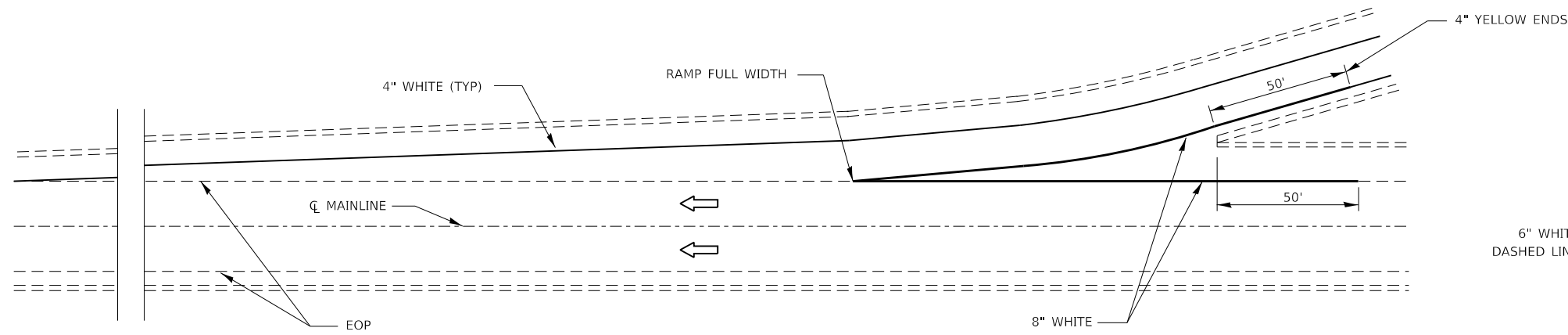
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57	D3 INTERMITTENT RS 2019-2	IROQUOIS	9	5
			CONTRACT NO. 66K24	
		ILLINOIS	FED. AID PROJECT	

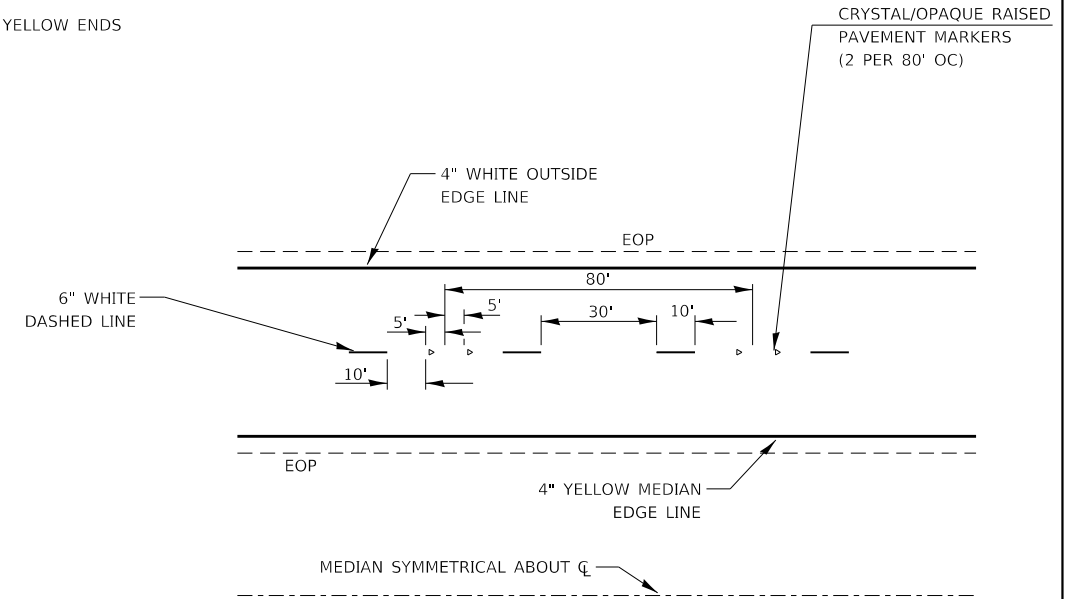
PAVEMENT MARKING SCHEDULE

DIRECTION & LOCATION		LENGTH	POLYUREA PAVT MARK TY 1		PREF PLASTIC PAVT MARK TY B	GROOVING FOR RECESSED PAVEMENT MARKING		RAISED REFLECT PAVT MARKERS		TEMPORARY PAVEMENT MARKING		PAVT MARK REM (WATER BLAST)	SHORT TERM PAVT MARK (1 APP)	SHORT TERM PAVT MARK REMOVAL (1 APP)
			4"		6"	5"	7"	INSTALL	REMOVAL *	4"	6"			
			WHITE	YELLOW	WHITE					(2 APP)				
			EDGE LINE	EDGE LINE	CENTER LINE	FOOT	FOOT	FOOT	FOOT	EACH	EACH			
MILE POSTS	SIDE	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	SQ FT
SOUTHBOUND														
277.8	DL	50	50		13	50	13	2	2	100	26	23	5	2
277.7	DL	100	100		25	100	25	2	2	200	50	46	10	3
277.5	DL	30	30		8	30	8	2	2	60	16	14	3	1
275.9	DL	400	400		100	400	100	10	10	800	200	183	40	13
275.8	PL	200		200	50	200	50	6	6	400	100	92	20	7
275.5	DL	50	50		13	50	13	2	2	100	26	23	5	2
275.1	DL	200	200		50	200	50	6	6	400	100	92	20	7
274.9	PL	100		100	25	100	25	2	2	200	50	46	10	3
272.95	DL	150	150		38	150	38	4	4	300	76	69	15	5
272.7	DL	150	150		38	150	38	4	4	300	76	69	15	5
272.1	DL	50	50		13	50	13	2	2	100	26	23	5	2
267.7	PL	150		150	38	150	38	4	4	300	76	69	15	5
265.7	DL	200	200		50	200	50	4	4	400	100	92	20	7
265.7	PL	100		100	25	100	25	2	2	200	50	46	10	3
SOUTHBOUND TOTAL			1,380	550	486	1,930	486	52	52	3,860	972	887	193	65
NORTHBOUND														
265.8 TO 266.5	CL	3696			924		924	92	92		1848	462	370	123
267.8	DL	250	250		63	250	63	6	6	500	126	115	25	8
267.4 TO 268.8	CL	7392			1848		1848	184	184		3696	924	739	246
271.3	DL	150	150		38	150	38	4	4	300	76	69	15	5
271.3 TO 272.1	CL	4230			1057		1057	106	106		2114	529	423	141
272.1	DL	50	50		13	50	13	2	2	100	26	23	5	2
272.7	DL	150	150		38	150	38	4	4	300	76	69	15	5
272.8	DL	150	150		38	150	38	4	4	300	76	69	15	5
273.0	DL	150	150		38	150	38	4	4	300	76	69	15	5
274.5 TO 275.1	CL	3168			792		792	80	80		1584	396	317	106
275.0	PL	250		250	63	250	63	6	6	500	126	115	25	8
275.2	PL	150		150	38	150	38	4	4	300	76	69	15	5
275.4	DL	150	150		38	150	38	4	4	300	76	69	15	5
275.6	PL	50		50	13	50	13	2	2	100	26	23	5	2
275.9	PL	200		200	50	200	50	6	6	400	100	92	20	7
275.9 TO 276.1	CL	1056			264		264	26	26		528	132	106	35
276.4	PL	150		150	38	150	38	4	4	300	76	69	15	5
277.05	DL	50	50		13	50	13	2	2	100	26	23	5	2
277.5	DL	50	50		13	50	13	2	2	100	26	23	5	2
277.9	DL	200	200		50	200	50	6	6	400	100	92	20	7
279.1	PL	100		100	25	100	25	2	2	200	50	46	10	3
NORTHBOUND TOTALS			1350	900	5454	2250	5454	550	550	4500	10908	3478	2180	727
GRAND TOTALS			2730	1450	5940	4180	5940	602	602	8360	11880	4365	2373	792

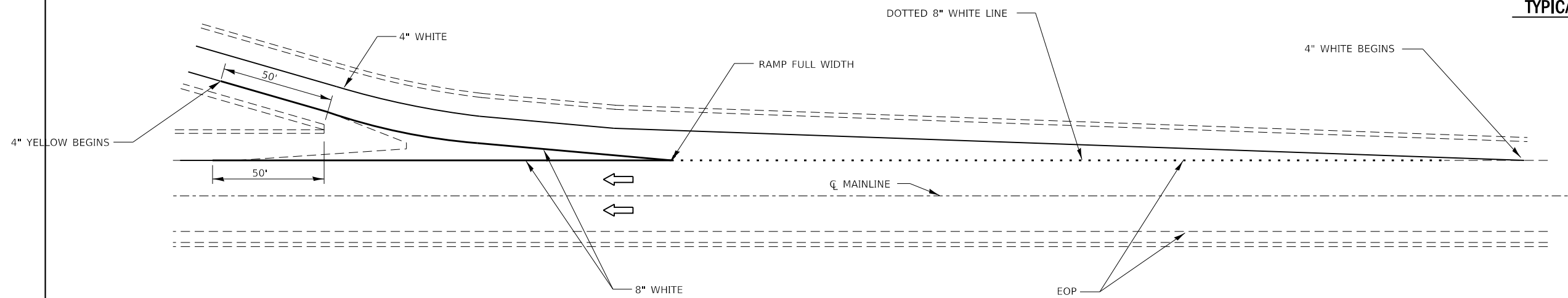
* THE RESIDENT SHALL FIELD CHECK REMOVAL ITEMS



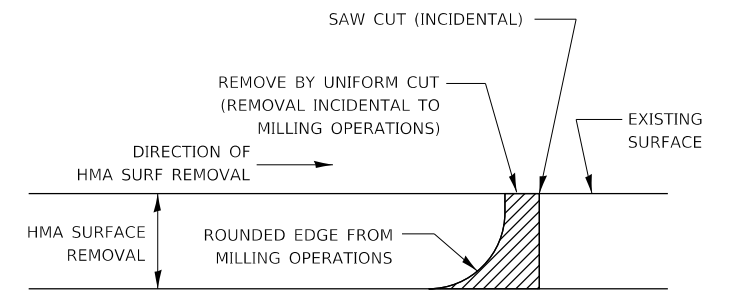
TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS



NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
 THEN A SAW CUT SHALL BE USED TO MANUFACTURE
 A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
 THE ENGINEER SHALL BE THE SOLE JUDGE
 CONCERNING THE USE OF THIS DETAIL

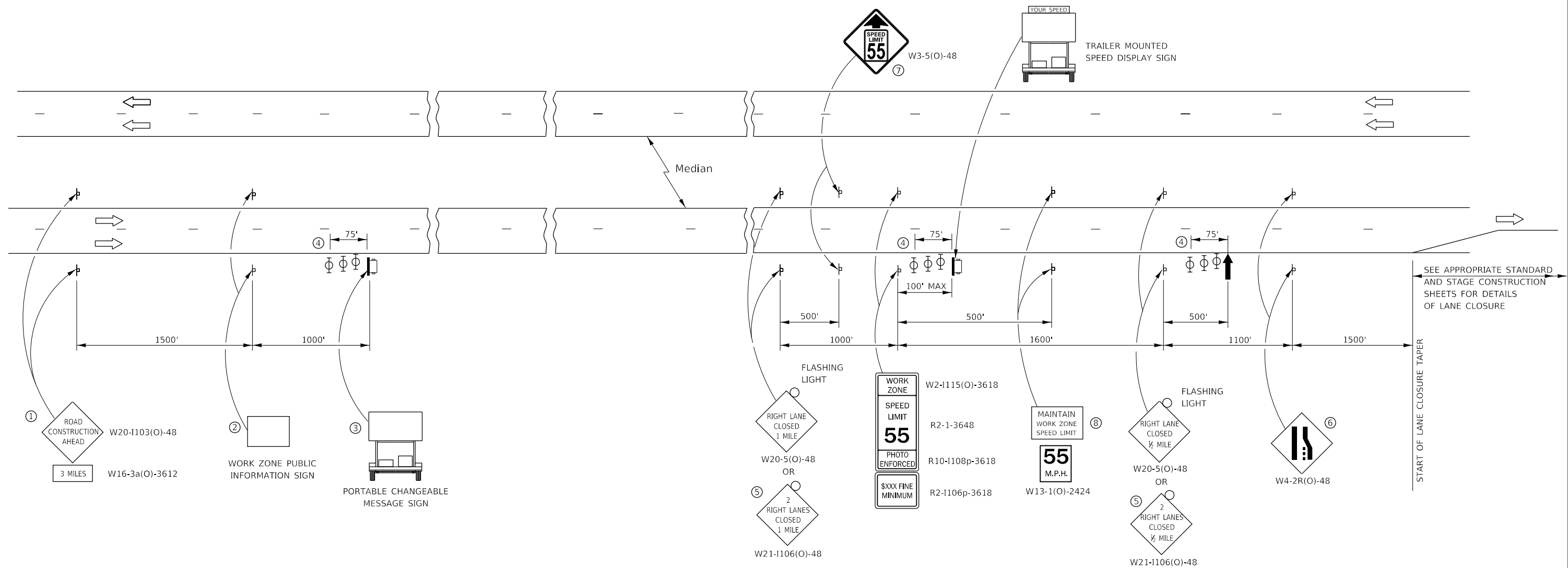
HMA DETAIL AT BUTT JOINTS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

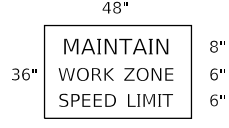
DETAILS			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE CLOSED" / " x MILES AHEAD"
 "LEFT LANE CLOSED" / " x MILES AHEAD"
 "ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = calderoni	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD 701400 (SPECIAL)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 66K24				
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