

INDEX OF SHEETS

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3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
5. TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL)
6. DETAILS
7. MAINLINE SCHEDULE

STANDARDS

- |           |   |
|-----------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                                  |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT  |
| 642001-02 | SHOULDER RUMBLE STRIPS, 16 INCH   |
| 701101-04 | OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY                    |
| 701401-08 | LANE CLOSURE, FREEWAY/EXPRESSWAY  |
| 701411-08 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS 45 MPH           |
| 701901-03 | TRAFFIC CONTROL DEVICES   |
| 701400-07 |   |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

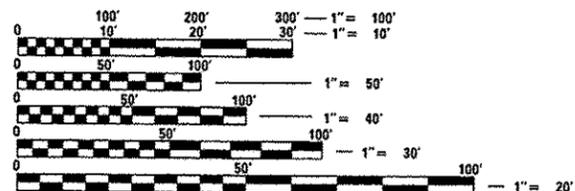
F.A.I. ROUTE 39 (I-39)  
SECTION (50-4)I-3  
PROJECT: ACHSIP-0039(036)  
HOT-MIX ASPHALT SHOULDER REPAIR  
LASALLE COUNTY

C-93-026-14



**BEGIN PROJECT**  
STA. 679 + 25.00  
SOUTH OF IL 251

**BEGIN PROJECT**  
STA. 792 + 65.00  
0.3 MI SOUTH OF IL 351



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.

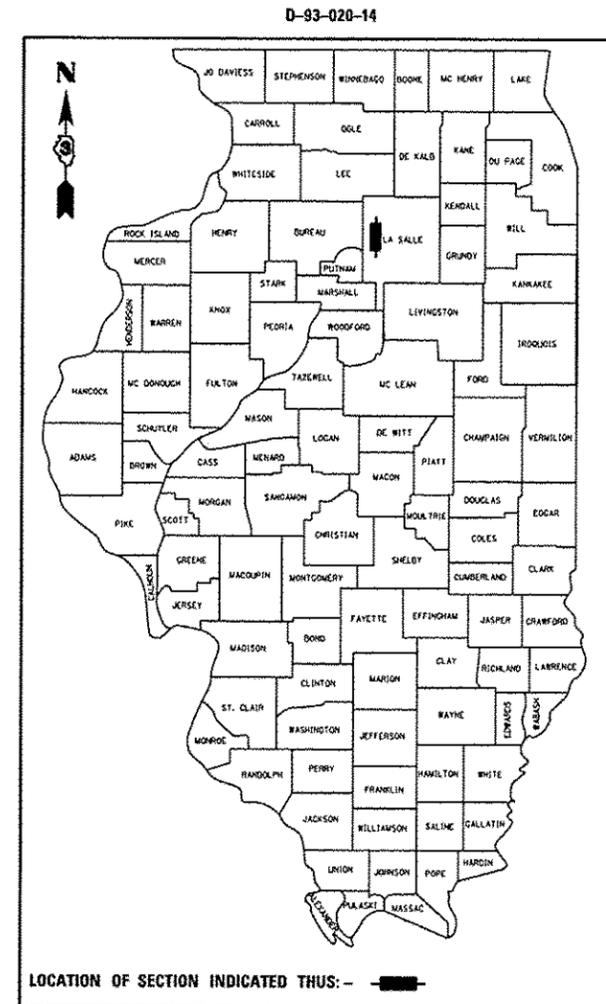
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

DISTRICT 3 NO. (815) 434-6131  
PROJECT ENGINEER: JOE KANNEL, P.E.  
UNIT CHIEF: SCOTT A. FERGUSON

CONTRACT NO. 66D32

GROSS LENGTH = 11,340.00 FT. = 2.15 MILES  
NET LENGTH = 11,340.00 FT. = 2.15 MILES  
LOCATION MAP  
NOT TO SCALE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4)I-3	LASALLE	7	1
		ILLINOIS	CONTRACT NO. 66D32	



**FUNCTIONAL CLASSIFICATION**  
**RURAL INTERSTATE**  
2012 ADT = 18800  
P.V. = 65.29%    M.U. = 29.26%    S.U. = 5.45%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 12-16-13 2013  
Paul A. Tolson  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 24 2014  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 24 2014  
Omer Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

PLAN DIMENSIONS RELATIVE TO THE EXISTING ROADWAY HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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

EXCAVATED MATERIALS SHALL BE DISPOSED OF AT LOCATIONS DIRECTED BY THE ENGINEER. ANY SUCH DISPOSAL SHALL NOT CREATE AND UNSIGHTLY OR OBJECTIONABLE APPEARANCE OR DETRACT FROM THE NATURAL TOPOGRAPHIC FEATURES WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE LEFT ON, OR INCORPORATED WITHIN, THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

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

HMA RESURFACING	112	LBS / SQ YD / IN
-----------------	-----	------------------

BITUMINOUS MATERIALS (PRIME COAT) RATES	
TYPE OF SURFACE TO BE PRIMED	RESIDUAL ASPHALT RATE LB/SQ FT (KG/SQ M)
MILLED HMA, AGED NON-MILLED HMA, MILLED CONCRETE, NON-MILLED CONCRETE & TINED CONCRETE	0.05
FOG COAT BWTWEEN HMA LIFTS, IL-4.75 & BRICK	0.025

DATE: 12-6-13

PREPARED BY: Tom Benoit  
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Harold Jones  
DISTRICT CONSTRUCTION ENGINEER

Ag. Phillips  
DISTRICT MATERIALS ENGINEER

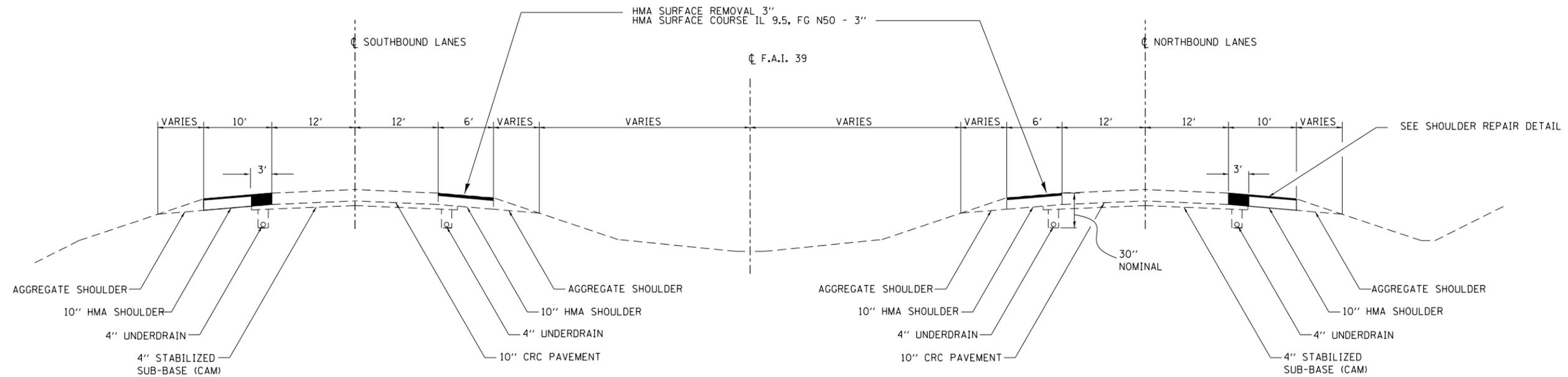
Bruce A. Hoeker  
DISTRICT OPERATIONS ENGINEER

FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED - OBS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.I. RTE. 39	SECTION (50-41)-3	COUNTY LASALLE	TOTAL SHEETS 7	SHEET NO. 2		
	PLOT SCALE * #SCALE#	DRAWN - OBS	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 66032			
	PLOT DATE * #DATE#	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE - FEBRUARY 2013	REVISED -									

CODE NO.	ITEM	UNIT	CONSTR. CODE
			FED / STATE 90% / 10% ROADWAY 0021 RURAL
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	358.07
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	25748.3
44000189	HOT-MIX ASPHALT SURFACE REMOVAL, 10"	SQ YD	5630.7
40603082	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, FG, N50	TON	2207.3
40603415	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, FG, N50	TON	5271.3
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	35807
67100100	MOBILIZATION	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	7
<del>70103015</del>	<del>TRAFFIC CONTROL SURVEILLANCE</del>	<del>CAL DA</del>	<del>28</del>
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	26789.7
X7010805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	L SUM	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42

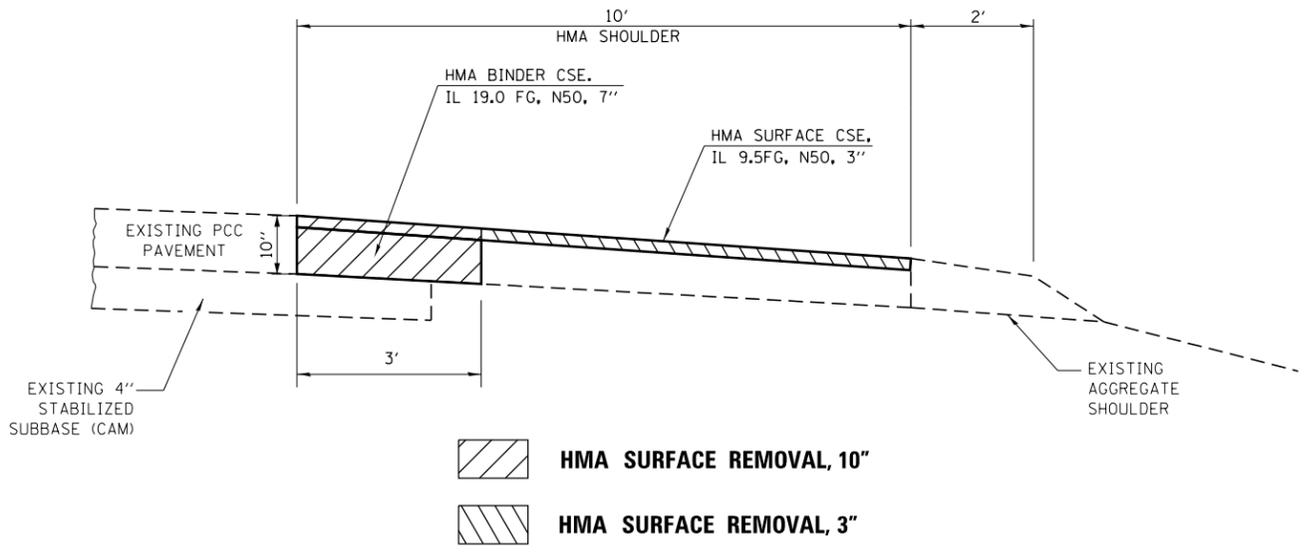
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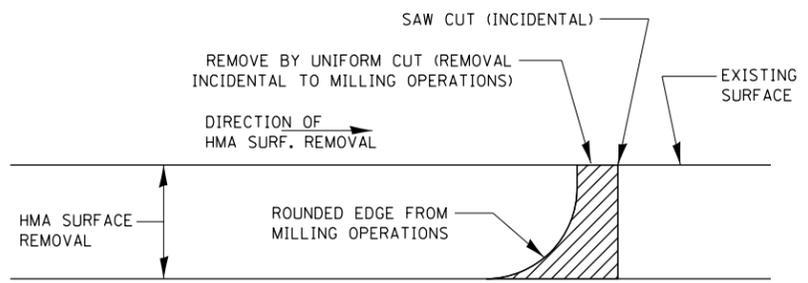
### TYPICAL SECTION

STA. 679+25 TO STA 792+65



### HMA SHOULDER REPAIR DETAIL

	HMA BINDER FOR SHOULDERS	HMA SURFACE FOR SHOULDERS
	BOTTOM LIFTS	TOP LIFTS
PG GRADE	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0 FG	IL 9.5 FG
FRICTION AGGREGATE		MIXTURE C
DENSITY CONTROL METHOD	CORES	GROWTH CURVE



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

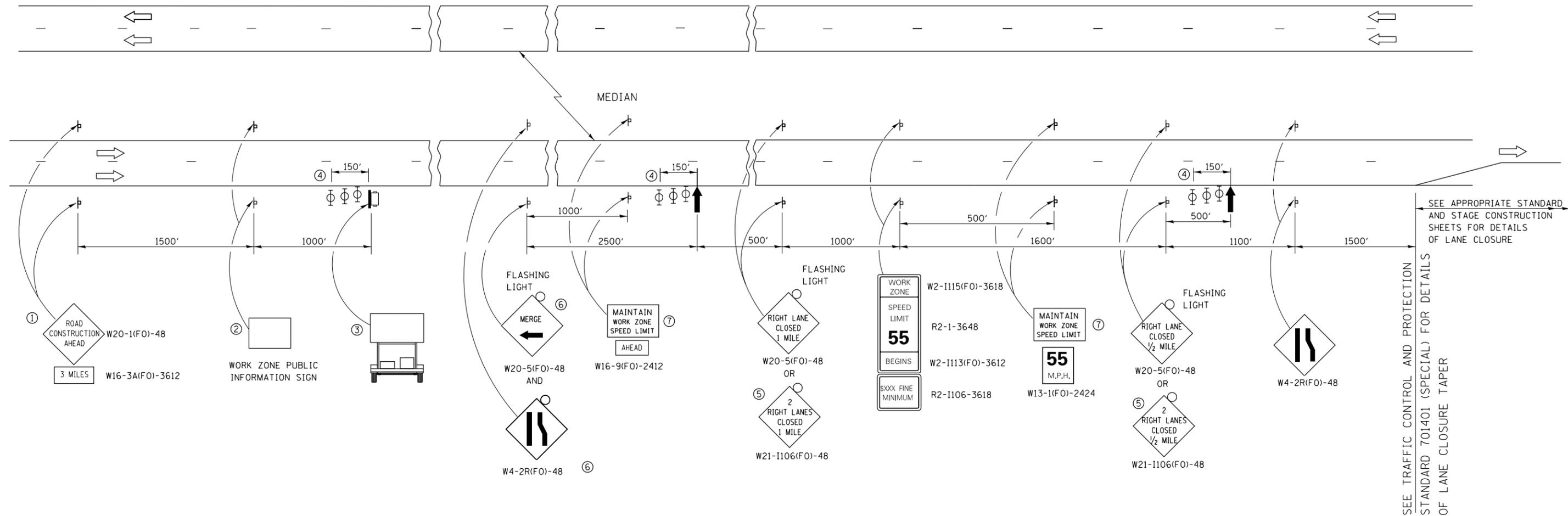
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	PLOT DATE = 12/6/2013	DATE - FEBRUARY 2013	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### TYPICAL SECTIONS

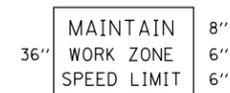
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4)I-3	LASALLE	7	4
			CONTRACT NO. 66D32	
ILLINOIS FED. AID PROJECT				



- 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 50' 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 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.  
48"



- ↑ 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).

WHEN WORK OPERATIONS ARE NEAR MAJOR INTERCHANGES THE CONTRACTOR SHALL FURNISH ADDITIONAL MESSAGE BOARDS AND UTILIZED AT THE DIRECTION OF THE ENGINEER.

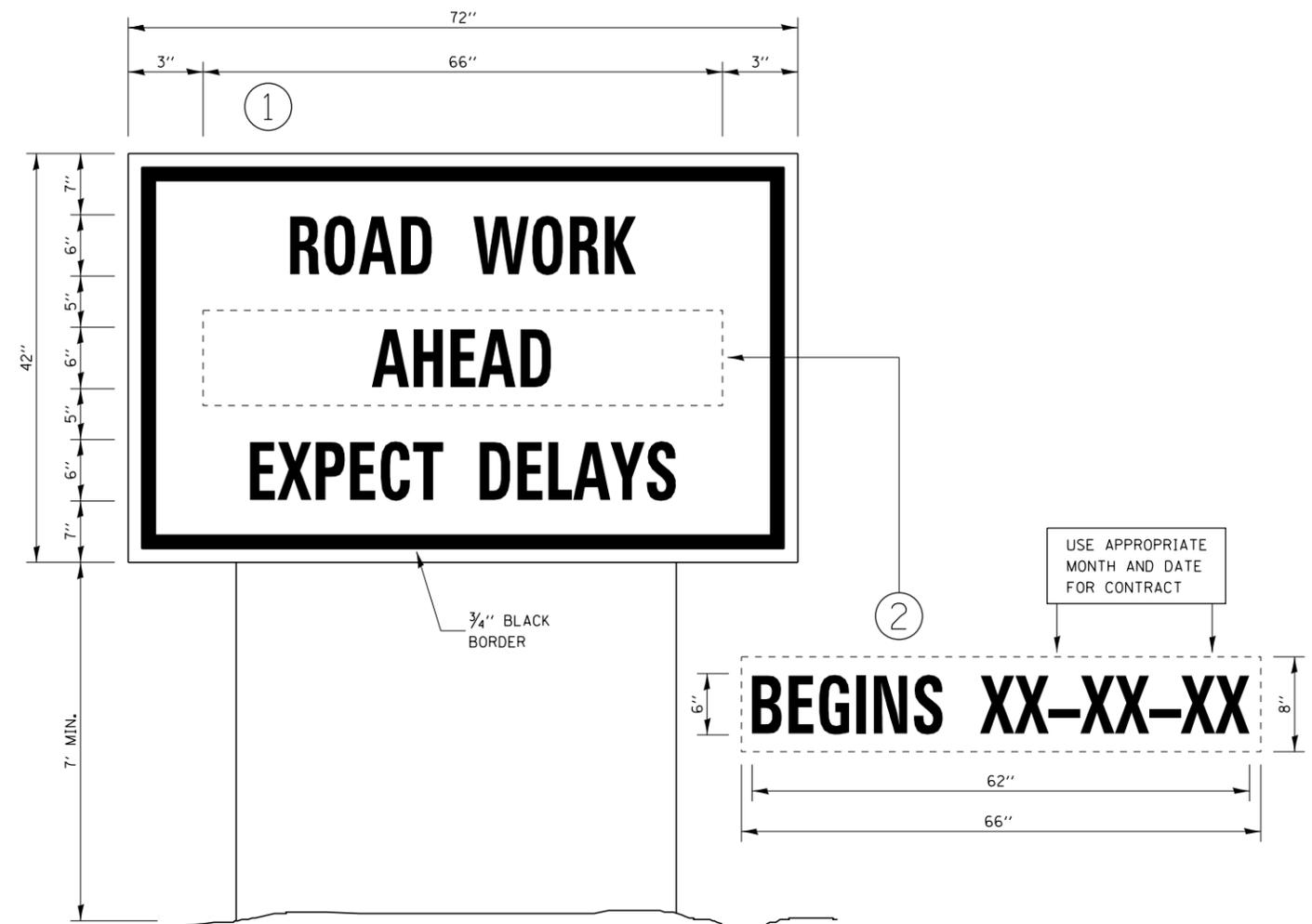
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION,  
STANDARD 701400 (SPECIAL)**

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

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-41-3	LASALLE	7	5
			CONTRACT NO. 66D32	
ILLINOIS FED. AID PROJECT				



**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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	PLOT DATE = 12/6/2013	DATE - FEBRUARY 2013	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4)1-3	LASALLE	7	6
CONTRACT NO. 66D32			ILLINOIS FED. AID PROJECT	

I-39 MAINLINE SHOULDER TABLE

				EXC & GR EXISTING SHOULDER	HMA BINDER CSE. IL 19.0 FG N50	HMA SURF. CSE. IL 9.5 FG N50	HMA SURF. REM. 3"	HMA SURF. REM. 10"	SHLDR RUMBLE STRIPS 16"	BIT PRIME COAT	
I-39 NORTHBOUND				LENGTH	UNIT	TON	TON	SQ YD	SQ YD	FOOT	LBS
START PROJECT	INSIDE SHLDR	STA 679+25 TO STA 775+45		9620	96.2		1077.4	6413.3		9620	2886
	OUTSIDE SHLDR	STA 679+25 TO STA 689+27		1002	10.02	130.9	187	779.3	334	1002	1252.5
	OUTSIDE SHLDR	STA 700+81 TO STA 734+98		3417	34.17	446.5	637.8	2657.7	1139	3417	4271.3
	OUTSIDE SHLDR	STA 741+69 TO STA 761+48		1979	19.79	258.6	369.4	1539.2	659.7	1979	2473.8
	OUTSIDE SHLDR	STA 773+10 TO STA 792+65		1955	19.55	255.5	364.9	1520.6	651.7	1955	2443.8
NORTHBOUND TOTAL				17973	179.73	1091.5	2636.5	12910.1	2784.4	17973	13327.4
I-39 SOUTHBOUND				LENGTH	UNIT	TON	TON	SQ YD	SQ YD	FOOT	LBS
START PROJECT	INSIDE SHLDR	STA 682+50 TO STA 775+45		9295	92.95		1041	6196.7		9295	2788.5
	OUTSIDE SHLDR	STA 682+50 TO STA 697+84		1534	15.34	200.4	286.3	1193.1	511.3	1534	1917.5
	OUTSIDE SHLDR	STA 704+46 TO STA 731+75		2729	27.29	356.6	509.4	2122.6	909.7	2729	3411.3
	OUTSIDE SHLDR	STA 743+33 TO STA 764+45		2112	21.12	276	394.2	1642.7	704	2112	2640
	OUTSIDE SHLDR	STA 771+01 TO STA 792+65		2164	21.64	282.8	403.9	1683.1	721.3	2164	2705
SOUTHBOUND TOTAL				17834	178.34	1115.8	2634.8	12838.2	2846.3	17834	13462.3
GRAND TOTAL				35807	358.07	2207.3	5271.3	25748.3	5630.7	35807	26789.7

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAINLINE SCHEDULE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4)I-3	LASALLE	7	7
CONTRACT NO. 66D32			ILLINOIS FED. AID PROJECT	