

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
5. TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL)
6. TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
7. STAGING DETAILS
- 8-9. EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY

STANDARDS

- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 - 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
 - 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
 - 701411-08 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
 - 701428 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
 - 701901-03 TRAFFIC CONTROL DEVICES
 - 704001-07 TEMPORARY CONCRETE BARRIER
- 701408-07*

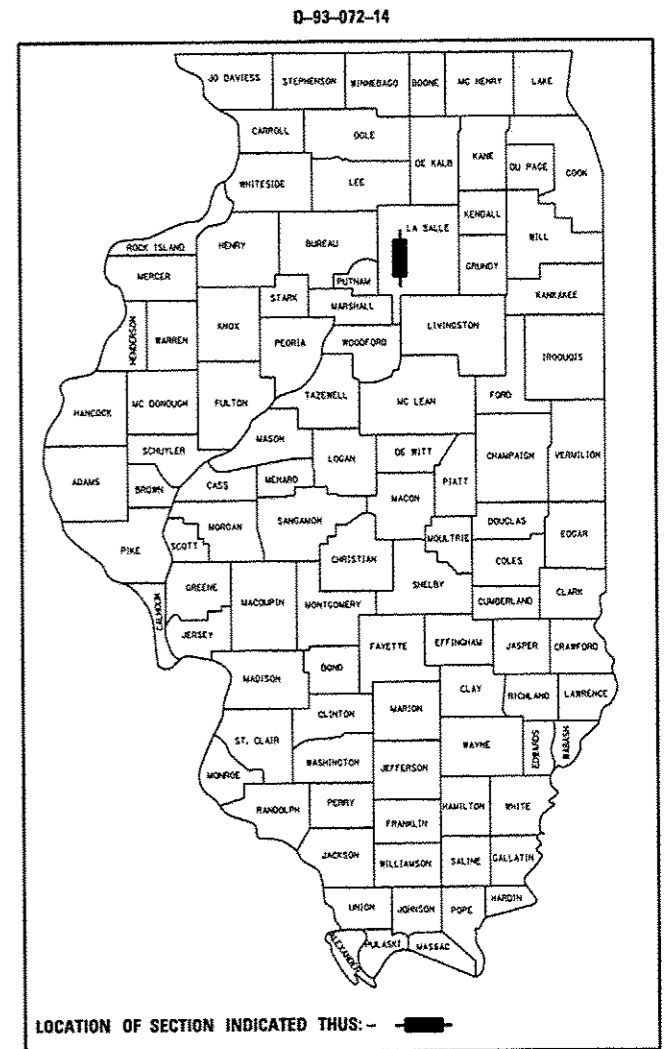
**DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**

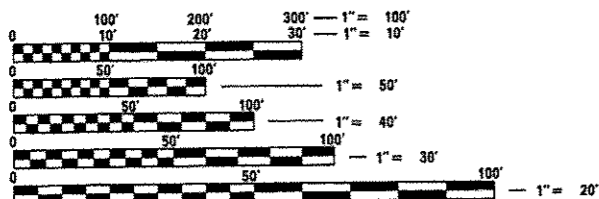
**F.A.I. ROUTE 39 (I-39)
SECTION (50-4B-1)BP**

**BRIDGE PAINTING
LASALLE
STRUCTURE NO. 050-0196
CARRYING F.A.I. ROUTE 39 (I-39)
OVER A SERVICE ROAD AND CONVEYOR
0.43 MILES SOUTH OF US ROUTE 6**

C-93-123-14



URBAN
INTERSTATE
F.A.I. RTE. 39
2013
ADT 18800
P.V. 65.29%
S.U. 5.45%
M.U. 29.26%

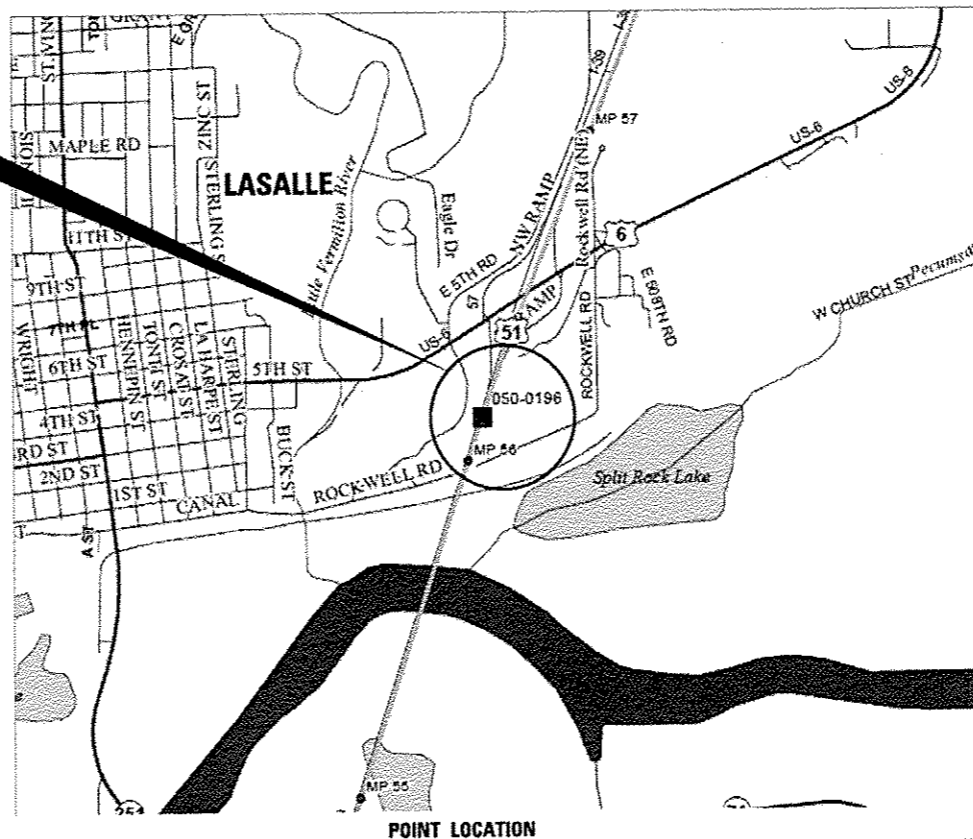


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**PROJECT ENGINEER: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
TOWNSHIP: LASALLE
CONTRACT NO. 66D94**

**PROJECT LOCATION
STRUCTURE NO. 050-0196**



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *April 16 20 14*
Paul Coate P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9 20 14
John P. Baranzelli P.E./S
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 14
Chris Osman P.E./S
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED 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 BASED UPON THE UNIT BID PRICE FOR THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

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

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

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 SSPC-OP1 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.

THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

LOCATION 1: STRUCTURE NO 050-0196

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXTERIOR AND INTERIOR SURFACES OF THE BEAMS, DIAPHRAGMS, BEARING ASSEMBLIES AND ALL OTHER ASSOCIATED STEEL COMPONENTS SHALL BE CLEANED PER "NEAR WHITE BLAST CLEANING - SSPC-SP10. ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF "PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE "GRAY, MUNSELL NO. 5B 7/1". THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

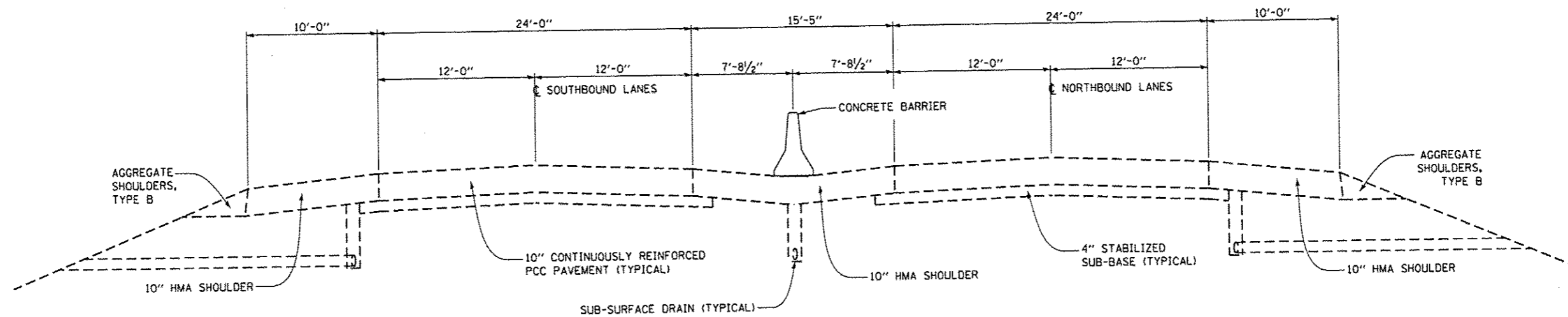
REVIEWED BY: *D. Bonil*
DISTRICT STUDIES & PLANS ENGINEER
DATE: 4-16-14
EXAMINED BY: *Michael J. ...*
DISTRICT CONSTRUCTION ENGINEER
James G. ...
DISTRICT OPERATIONS ENGINEER
...
DISTRICT MATERIALS ENGINEER

FILE NAME *	USER NAME * Poteluj	DESIGNED - R WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwidot\poteluj\d0308702\0366	94-shs-details.dgn	DRAWN - R WOODSHANK	REVISED -			39	(50-4B-118P)	LASALLE	9	2	
#MODELNAME#	PLOT SCALE * 100.0000 "/ in.	CHECKED - Y PATEL	REVISED -			SCALE:		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.
	PLOT DATE * 4/15/2014	DATE - 4/3/2014	REVISED -			ILLINOIS FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				BRIDGE PAINT ONLY	100% STATE
				BRIDGE	
				0014	
				050-0196	
67100100	MOBILIZATION	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	290		290
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	870		870
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1		1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3		3
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	250		250
78300100	PAVEMENT MARKING REMOVAL	SQ FT	125		125
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1		1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1		1
X7010410	<i>SPEED DISPLAY TRAILER</i>	<i>CAL MO</i>	<i>1</i>		<i>1</i>
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42		42
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1		1

Rev

FILE NAME *	USER NAME * Patelj	DESIGNED - R WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
al\pwork\pwork\patelj\d0208702\0366974-ah-detailed.dgn		DRAWN - R WOODSHANK	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	39	(50-4B-1)BP	LASALLE	9	3
#MODELNAME*	PLOT SCALE * 1/8"=1'-0"	CHECKED - Y PATEL	REVISED -		CONTRACT NO. 66D94								
	PLOT DATE * 4/15/2014	DATE - 4/3/2014	REVISED -		ILLINOIS FED. AID PROJECT								

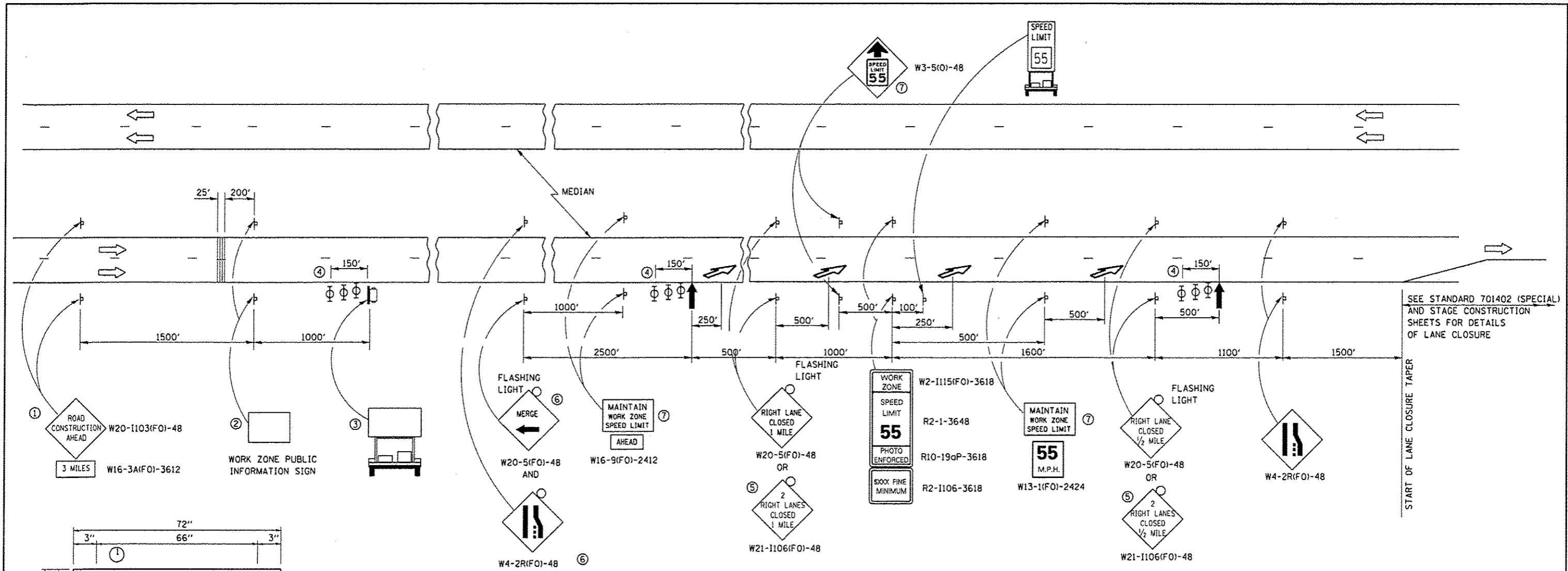


FILE NAME *	USER NAME * Patelj	DESIGNED - R WOODSHANK	REVISED -
cr:\pv_work\pvidot\patelj\d0388782\036694-sht-details.dgn		DRAWN - R WOODSHANK	REVISED -
#MODELNAME#	PLOT SCALE = 1/8" = 1' / in.	CHECKED - Y PATEL	REVISED -
	PLOT DATE = 4/15/2014	DATE - 4/3/2014	REVISED -

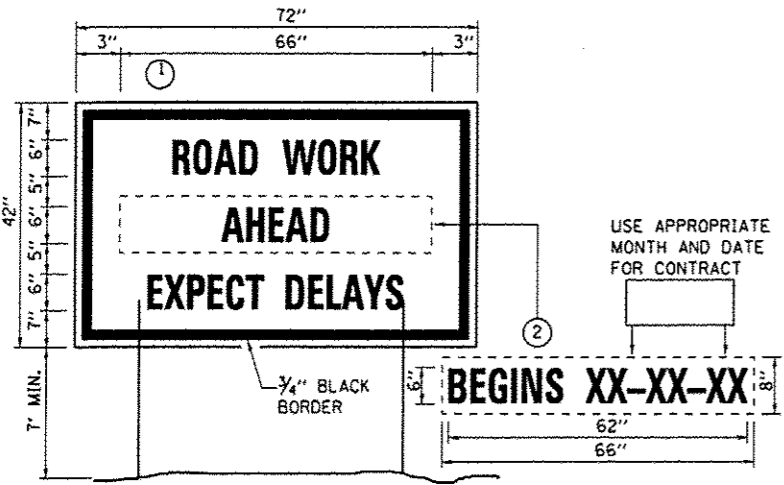
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION			
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(50-4B-1)BP	LASALLE	9	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66094	



SEE STANDARD 701402 (SPECIAL) AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE

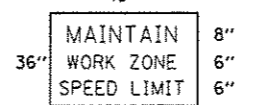


TEMPORARY INFORMATION SIGNING

- 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.

- 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 THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑦ 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
- LANE DROP ARROW - SEE STANDARD 780001
- ▨ TEMPORARY RUMBLE STRIPS
- 🚚 SPEED DISPLAY TRAILER

GENERAL NOTE:

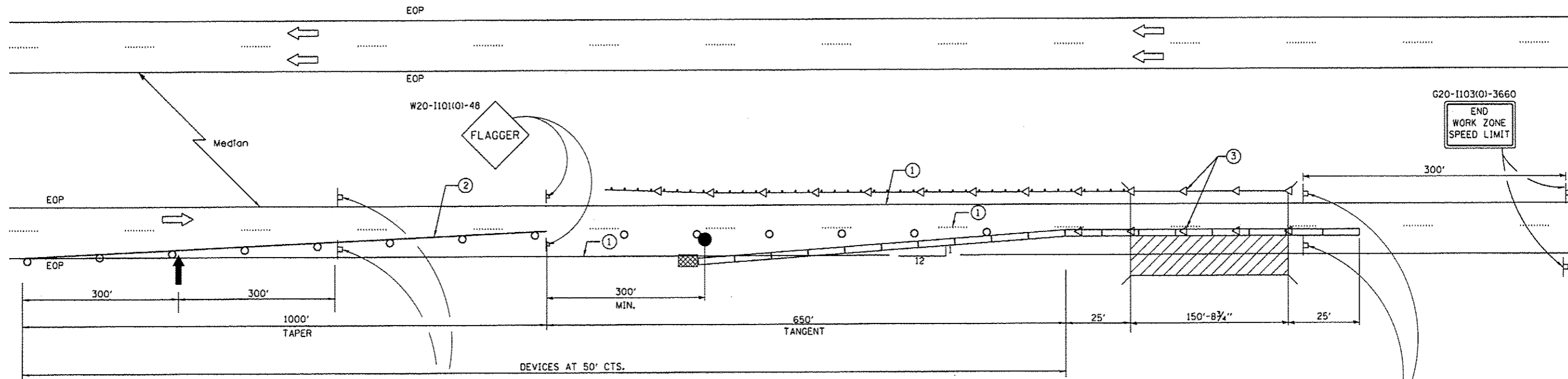
THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

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.

FILE NAME *	USER NAME * Pateljy	DESIGNED - R WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701400 (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.		
o:\p\work\p\w\p\pateljy\0388702\0366934-sht-details.dgn	PLT SCALE = 1/8"=1'-0"	DRAWN - R WOODSHANK	REVISED -			39	(50-48-1)BP	LASALLE	9	5		
#MODELNAME#	PLOT DATE = 4/15/2014	CHECKED - Y PATEL	REVISED -			SCALE:		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	CONTRACT NO. 66094
		DATE - 4/3/2014	REVISED -					ILLINOIS FED. AID PROJECT				



SEE STANDARD 701400 (SPECIAL) FOR APPROACH LANE CLOSURE SIGNING

- R2-1106-3618 MINIMUM 300X FINE
- W2-1113(0)-3612 BEGINS
- R2-1-3648 45 SPEED LIMIT
- W2-1115(0)-3618 WORK ZONE

- R2-1106-3618 MINIMUM 300X FINE
- W2-1113(0)-3612 BEGINS
- R2-1-3648 55 SPEED LIMIT
- W2-1115(0)-3618 WORK ZONE

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCR OACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 INCHES OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST BE USED IN COMBINATION WITH STANDARD 701400 (SPECIAL).

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

FLAGGER, FLAGGER SIGNS AND SPEED LIMIT SIGNS SHALL BE REQUIRED WHENEVER TEMPORARY CONCRETE BARRIER IS NOT IN PLACE, WHEN TEMPORARY CONCRETE BARRIER IS IN PLACE, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED AND THE FLAGGER NOT REQUIRED.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

CALCULATE L AS FOLLOWS:

FORMULA
L=(WXS)

45 MPH OR MORE

W = WIDTH OF OFFSET
IN FEET

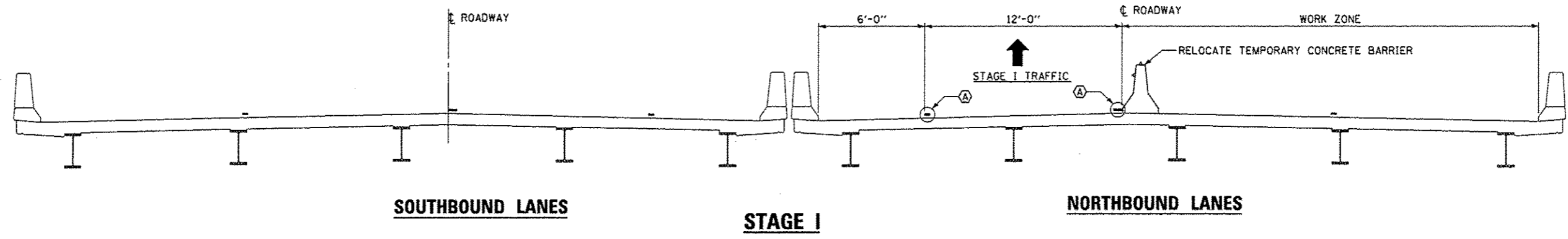
S = NORMAL POSTED
SPEED

- ① EXISTING PAVEMENT MARKING SHALL BE LEFT IN PLACE
- ② TEMPORARY PAVEMENT MARKING
- ③ BARRIER WALL/GUARDRAIL MARKERS AT 25'. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER. COST INCLUDED WITH TEMPORARY CONCRETE BARRIER.

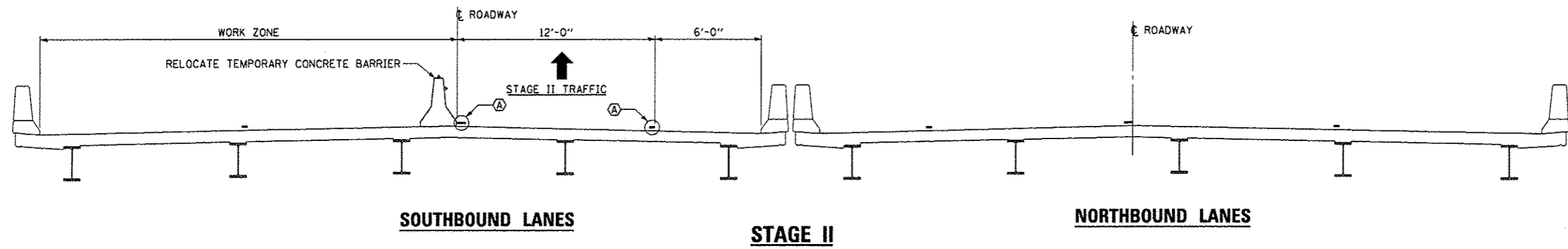
SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- ┆ SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ▬ TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- ▩ IMPACT ATTENUATOR

FILE NAME *	USER NAME * Poteluj	DESIGNED - R WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pvt\work\pvt\poteluj\08388782\03869	94-shr-details.dgn	DRAWN - R WOODSHANK	REVISED -			39	(50-4B-11BP)	LASALLE	9	6	
MODELNAME	PLOT SCALE = 1/8" = 1'-0"	CHECKED - Y PATEL	REVISED -			SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 4/15/2014	DATE - 4/3/2014	REVISED -			CONTRACT NO. 66094					

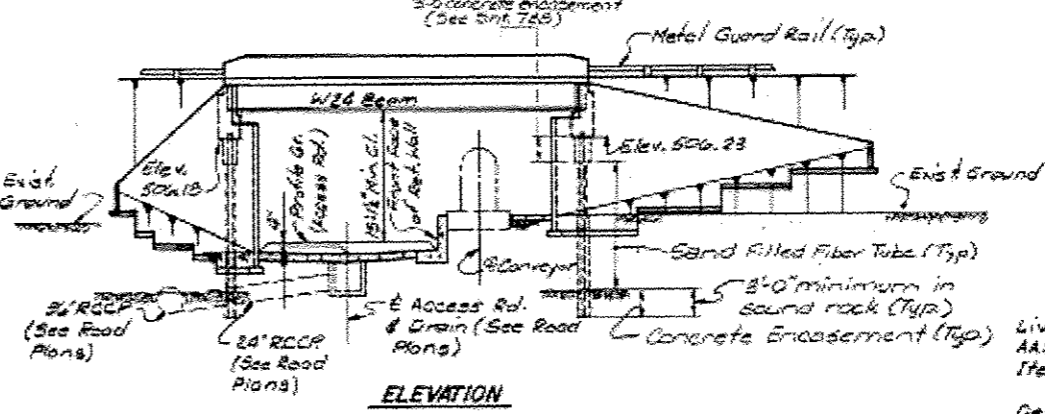
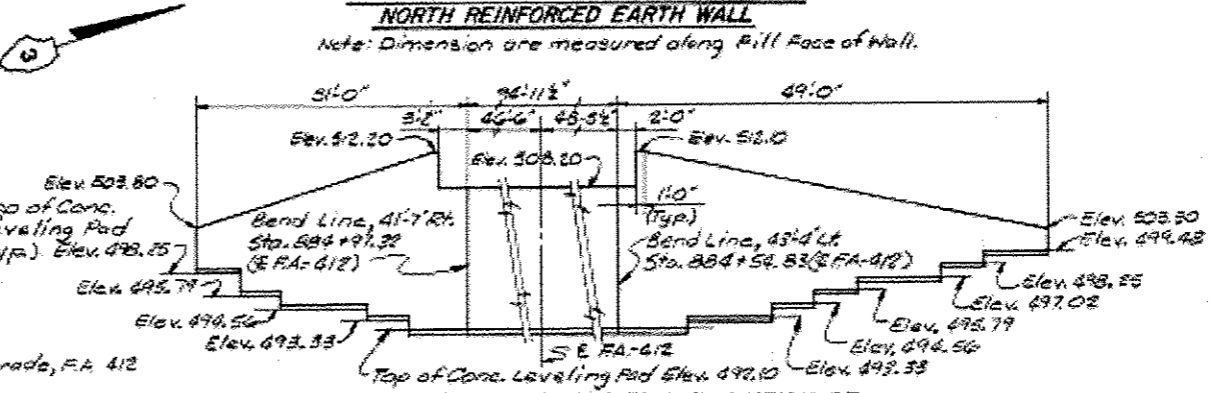
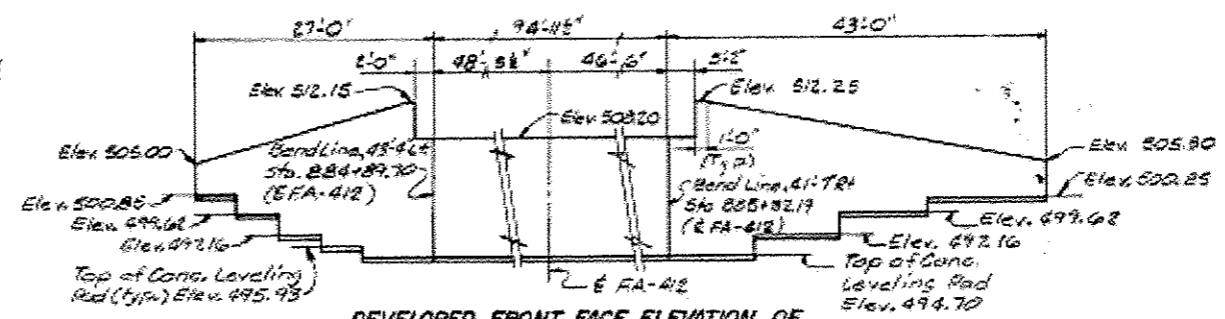
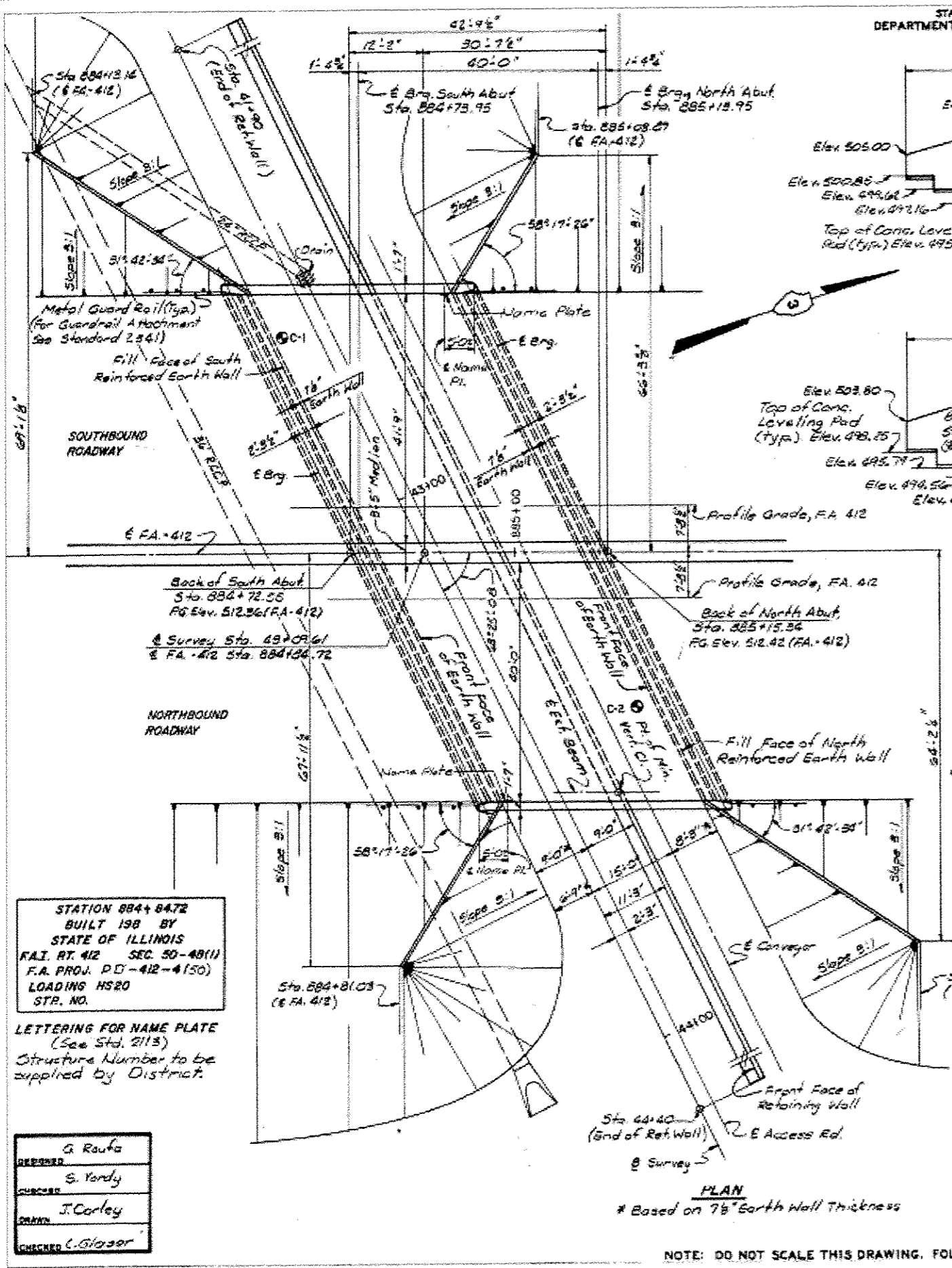


(A) EXISTING PAVEMENT MARKING



(A) EXISTING PAVEMENT MARKING

FILE NAME = c:\pwork\pwork\potelyj\d9388782\036694-sht-details.dgn	USER NAME = Potelyj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/80.0000' / in.	DRAWN -	REVISED -		39	(50-4B-1)BP	LASALLE	9	7			
	PLOT DATE = 4/15/2014	CHECKED -	REVISED -		STA.	TO STA.	CONTRACT NO. 66094					
	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									



TOTAL BILL OF MATERIAL				
ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
Setting Piles in Rock	Each	-	28	28
Class X Concrete	Cu. Yd.	187.4	59.2	246.6
Structural Steel	Lump Sum	1	-	1
Reinforcement Bars	Lb.	2860	6360	11070
Reinforcement Bars (Epoxy Coated)	Lb.	26570	-	26570
Furnishing Steel Piles	Lin. Ft.	-	616	616
Name Plates	Each	2	-	2
Stud Shear Connectors	Each	1780	-	1780

GENERAL NOTES - BRIDGE

For Roadway Data and Bench Marks, See Sheet 1.

⊙ Indicates Boring. See proposal for Boring Data

Calculated Weight of Structural Steel:
33,600 Lbs. M 223 Grade 50
8,550 Lbs. M 103

Fasteners shall be high strength bolts. Bolts 3/4", open holes 5/8", unless otherwise noted. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These are the Wide Flange Beams

The Zinc-Silicate and Vinyl paint system shall be used for shop painting and field painting of structural steel.

Field welding of construction accessories will not be permitted to the bottom of the wide flange beams. Field welding in other areas will be permitted only when approved by the Engineer.

For installation of piles at Abutments, See Special Provisions.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.

DESIGN STRESSES - BRIDGE
(Load Factor Design)

$f_c = 4500$ psi.
 $f_y = 60,000$ psi. (Rein. Steel)
 $f_y = 50,000$ psi. (M 223 Grade 50 Structural Steel)
 $54,000$ psi. (M 103 Structural steel)

DESIGN LOADING - BRIDGE

Live Load: HS 20-44 in accordance with AASHTO 1977 and 1978, 1979, 1980, 1981, 1982 & 1983 Interim Specifications.

Dead Load: Allow 25 psf of roadway for future wearing surface.

STATION 884+84.72
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 412 SEC. 50-4B(1)
F.A. PROJ. P.D. - 412-4(50)
LOADING HS20
STR. NO.

LETTERING FOR NAME PLATE
(See Std. 2113)
Structure Number to be
supplied by District.

DESIGNED: G. Roufa
CHECKED: S. Yordy
DRAWN: J. Corley
CHECKED: L. Glosner

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

"FOR INFORMATION ONLY"
STRUCTURES
AT
CEMENT COMPANY CONVEYOR
F.A.-412 OVER ACCESS ROAD AND CONVEYOR

GENERAL PLAN AND ELEVATION
SECTION 50 4B (1) PROJECT EBF - 412-4(6)
STA. 884+84.72 (FA-412) LASALLE CO.

SHEET NO. 2 OF 39

NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

