

06-14-13 LETTING ITEM 240

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR STATE STANDARDS, SEE SHEET NO. 2

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

FAI 39 (I-39) OVER I-88
S.N. 071-0062 & S.N. 071-0063

BRIDGE PAINTING
SECTION D2 BRIDGE PAINTING 2013-2
OGLE COUNTY
C-92-176-12

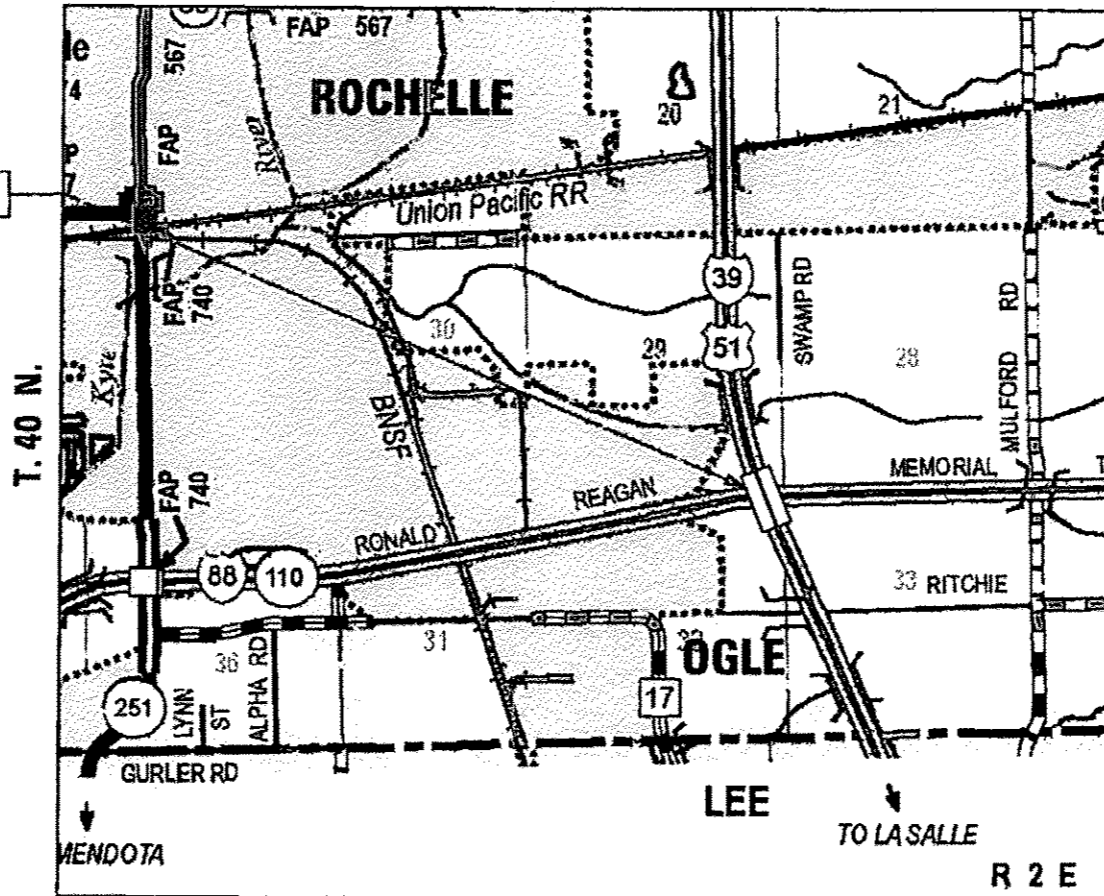
R. 2 E.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	1
FED. ROAD DIST. NO. 2		ILLINOIS	CONTRACT NO. 64J27	

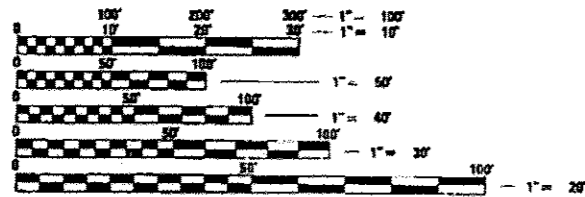
D-92-113-12



PROJECT LOCATION



DEMENT TOWNSHIP (SECTION 29)



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 LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
DR 811

PROJECT MANAGER : MAHMOUD ETEMADI (815) 284-5393
BRIDGE PAINT TECHNICIAN : DAN LINK (815) 284-5416
DESIGN
PROJECT MANAGER : GEORGE F. LIPTACK (312) 372-2023
CONTRACT NO. 64J27

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct. 9 2012
Paul Koeter
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7 2012
John D. Baranzelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2012
William R. Freyja
DIRECTOR OF HIGHWAYS, CHIEF-ENGINEER



Birinder S. Sachdeva 9-7-12
BIRINDER S. SACHDEVA, P.E. DATE
EXPIRES: 11-30-2013



CHRISTIAN ROGE & ASSOCIATES INC
ENGINEERS - PLANNERS - SURVEYORS
211 W WACKER DR WY CHICAGO IL 60606
TELEPHONE 312-372-2023

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DATE	
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SHEET NO. INDEX OF SHEETS

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23-25	TYPICAL PAVEMENT MARKINGS (DISTRICT STANDARD 41.1)
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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS
701101-03	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701400-06	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-07	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701451-01	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS

LIST OF ILLINOIS TOLLWAY HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
D5-03	PERMANENT PAVEMENT MARKINGS
D6-01	PAVEMENT MARKING AND SHOULDER RUMBLE STRIP DETAILS
D8-00	RAISED PAVEMENT LANE MARKER
E1-02	CONSTRUCTION SIGNS
E2-02	LANE CLOSURE DETAILS
E3-02	SHOULDER CLOSURE DETAILS
E5-02	TEMPORARY GORE DETAILS

GENERAL NOTES

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USES(S):	SHOULDER SURFACE
PG:	PG-58-22
DESIGN AIR VOIDS	3.0% AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5
FRICTION AGGREGATE	MIX C
20 YEAR ESAL	NA
MIX UNIT WEIGHT	112 LB/SY/IN

THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAYS PRODUCTIVITY, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

INSTALL RUMBLE STRIPS IN ALL SHOULDERS IN ACCORDANCE WITH STATE STANDARD 642001. RUMBLE STRIPS SHALL BE PLACED ON SHOULDERS ON BOTH SIDES OF THE PAVEMENT.

CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.

TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

RELOCATE TEMPORARY IMPACT ATTENUATORS WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATION. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

THE CONTRACTOR SHALL SECURE A PERMIT FROM THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY PRIOR TO STARTING ANY WORK ON THE TOLLWAY RIGHT-OF-WAY.

THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A PERMIT FROM THE ILLINOIS STATE TOLL HIGHWAY TO REQUEST A LOCATE OF TOLLWAY FACILITIES FOR THE PLACEMENT OF TRAFFIC CONTROL SIGNS AND TO PLACE TRAFFIC CONTROL ON TOLLWAY PROPERTY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT.

PRIOR TO THE IMPLEMENTATION OF THE MAINTENANCE OF TRAFFIC, A 21 DAY ADVANCE COORDINATION MEETING SHOULD BE HELD BETWEEN IDOT, THE IDOT CONSTRUCTION MANAGER (RE), THE TOLLWAY AND THE CONTRACTOR.

IF AN ALTERNATE TRAFFIC PATTERN IS REQUIRED WITHIN THE CONTRACT, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC DEVIATION PLAN, 21 DAYS PRIOR TO THE CHANGES FOR APPROVAL BY THE TOLLWAY AND IDOT. IN ADDITION, THE CONTRACTOR IS REQUIRED TO ATTEND A MAINTENANCE OF TRAFFIC MEETING ARRANGED BY THE TOLLWAY CONSTRUCTION MANAGER WITH REPRESENTATIVES FROM THE TOLLWAY TO REVIEW THE PROPOSED CHANGES IN THE MAINTENANCE OF TRAFFIC TWO (2) DAYS PRIOR TO THE IMPLEMENTATION OF THE NEW MAINTENANCE OF TRAFFIC STAGE CHANGES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NOTIFICATIONS TO THE TOLLWAY.

ALL TOLLWAY STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS SHALL ONLY APPLY TO THE TOLLWAY RIGHT OF WAY.

IN ACCORDANCE WITH ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS/HER CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION AND MAINTENANCE OPERATIONS OF OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF THE PROJECT AND ADJACENT TO THE PROJECT.

MORE SPECIFICALLY, THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE CONTRACTOR OF CONTRACT 64H73, FAI 39 (I-39) & US 88 (RONALD REAGAN MEMORIAL EXPRESSWAY) S.N. 071-0062 & S.N. 071-0063 OVER I-88, BRIDGE REHABILITATION, SECTION D2, DECK REPAIR 2013-1. THE CONTRACTOR FOR 64J27 MUST WAIT UNTIL THE SUB-STRUCTURE WORK IS COMPLETED AND ALL RAMP CLOSURES ARE REMOVED BY THE CONTRACTOR PERFORMING THE WORK IN CONTRACT 64H73 BEFORE STARTING HIS OWN WORK REQUIRING RAMP CLOSURES.

FILE NAME: 026427-shc-index.dgn
 PLOT DATE: 10/2/2012
 PLOT SCALE: 100.0000 / IN



DESIGNED	G.F.L./K.R.K.	REVISED	-
DRAWN	K.R.K.	REVISED	-
CHECKED	E.J.M.	REVISED	-
DATE	JULY 2012	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, LIST OF STATE STANDARDS, LIST OF TOLLWAY STANDARDS AND GENERAL NOTES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	2
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Rev.

SUMMARY OF QUANTITIES

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				0014 BRIDGE REPAIR 100% STATE		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	90	90		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	800	800		
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1800	1800		
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	4	4		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1560	1560		
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	14100	14100		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4700	4700		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	512.5	512.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1287.5	1287.5		
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2350	2350		

* SPECIALTY ITEM

DATE	
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FINISHED SURVEY	
NOTED SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

FILE NAME *D264J27-plt-50001.dgn
 PLOT DATE *9/6/2012
 PLOT SCALE *100.0000 1/ IN.

CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L./K.R.K.	REVISED -
DRAWN - K.R.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - JULY 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
I-39 OVER I-88

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	02 BRIDGE PAINTING 2013-2	OGLE	26	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J27	

SCHEDULE OF QUANTITIES

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50						40603310
			WIDTH	SQYD	INCHES	TONS
Stage I EB	4159+50.00	4167+00.00	4	333.3	2	37.3
Stage II EB	4159+50.00	4161+00.00	4	66.7	2.0	7.5
Stage III WB	4165+50.00	4167+50.00	4	88.9	2	10.0
Stage IV WB	4160+00.00	4167+00.00	4	311.1	2	34.8
TOTAL						89.6

HOT-MIX ASPHALT SURFACE REMOVAL, 2"					44000157
			WIDTH	SQYD	
Stage I EB	4159+50.00	4167+00.00	4	333.3	
Stage II EB	4159+50.00	4161+00.00	4	66.7	
Stage III WB	4165+50.00	4167+50.00	4	88.9	
Stage IV WB	4160+00.00	4167+00.00	4	311.1	
TOTAL					800

SHOULDER RUMBLE STRIPS, 16 INCH					64200116
					FOOT
EB Median	4159+50.00	4167+00.00			750
EB Outside	4159+50.00	4161+00.00			150
WB Outside	4165+50.00	4167+50.00			200
WB Median	4160+00.00	4167+00.00			700
TOTAL					1,800

SHORT TERM PAVEMENT MARKING						70300100
STAGE I						FOOT
EASTBOUND						
6" SKIP DASH	4144+50.00	4154+50.00	500			250
4" WHITE	4159+50.00	4167+00.00	750			250
6" SKIP DASH	4167+50.00	4170+00.00	125			63
STAGE II						
EASTBOUND						
4" WHITE	4159+50.00	4164+00.00	450			150
6" SKIP DASH	4164+00.00	4167+00.00	150			75
STAGE III						
WESTBOUND						
6" SKIP DASH	4172+50.00	4182+50.00	500			250
4" WHITE	4163+00.00	4167+50.00	450			150
6" SKIP DASH	4159+50.00	4163+00.00	175			88
STAGE IV						
WESTBOUND						
4" WHITE	4160+00.00	4167+00.00	700			234
6" SKIP DASH	4158+50.00	4161+00.00	50			25
TOTAL					1,535	
USE					1,560	

WORK ZONE PAVEMENT MARKING REMOVAL						70301000
PAVEMENT MARKING TAPE, TYPE III 4"						70300520
STAGE I						
EASTBOUND						SQ FT
	4144+50.00	4170+00.00				850
	4159+50.00	4167+00.00	750			250
(8" GORE PM)	4168+85.00	4172+00.00				210
(8" GORE PM)	4168+85.00	4170+15.00				87
(8" CHEVRONS)	4168+85.00	4170+15.00				40
STAGE II						
EASTBOUND						
	4144+50.00	4167+00.00				750
(25' SKIP DASH)	4159+50.00	4164+00.00				150
	4164+00.00	4167+00.00				50
STAGE III						
WESTBOUND						
	4159+00.00	4182+50.00	2350			784
	4163+00.00	4167+50.00				150
(25' SKIP DASH)	4159+75.00	4163+00.00				54
STAGE IV						
WESTBOUND						
(8" GORE PM)	4157+00.00	4159+00.00				400
(8" GORE PM)	4157+50.00	4159+00.00				300
(8" CHEVRONS)	4158+00.00	4159+00.00				120
	4158+00.00	4182+00.00				2,400
	4160+00.00	4167+00.00	700			234
TOTAL					14,043	4,683
USE					14,100	4,700

TEMPORARY CONCRETE BARRIER					70400100
STAGE I					FOOT
4159+83.40	4165+05.74	EB			512.5
TOTAL					512.5

RELOCATE TEMPORARY CONCRETE BARRIER					70400200
STAGE II					FOOT
4160+98.31	4165+05.97	EB			400
4161+98.28	4166+00.73	WB			400
4161+98.05	4166+89.00	WB			487.5
TOTAL					1287.5

IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3					Z0030250
STAGE I					
4159+83.40		EB			1
TOTAL					1

IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3					Z0030350
STAGE II					EACH
4160+98.31		EB			1
4166+00.73		WB			1
4166+89.00		WB			1
TOTAL					3

PAVEMENT MARKING REMOVAL						78300100
STAGE I						
EASTBOUND						FOOT
6" SKIP DASH	4144+50.00	4154+50.00	500			250
4" WHITE	4159+50.00	4167+00.00	750			250
6" SKIP DASH	4166+00.00	4170+00.00	275			138
STAGE II						
EASTBOUND						
4" WHITE	4159+50.00	4164+00.00	450			150
6" SKIP DASH	4164+00.00	4167+00.00	150			75
STAGE III						
WESTBOUND						
6" SKIP DASH	4172+50.00	4182+50.00	500			250
4" WHITE	4163+00.00	4167+50.00	450			150
6" SKIP DASH	4159+50.00	4163+00.00	175			88
STAGE IV						
WESTBOUND						
4" WHITE	4160+00.00	4167+00.00	700			234
6" SKIP DASH	4158+50.00	4161+00.00	50			25
TOTAL					1,660	
USE					1,700	

POLYUREA PAVEMENT MARKING TYPE I - LINE 4"					78008210
STAGE I					FOOT
EASTBOUND	4159+50.00	4167+00.00			750
STAGE II					
EASTBOUND	4159+50.00	4164+00.00			450
STAGE III					
WESTBOUND	4163+00.00	4167+50.00			450
STAGE IV					
WESTBOUND	4160+00.00	4167+00.00			700
TOTAL					2,350

POLYUREA PAVEMENT MARKING TYPE I - LINE 6"					78008230
STAGE I					FOOT
EASTBOUND	4144+50.00	4154+50.00	500		250
EASTBOUND	4166+00.00	4170+00.00	275		138
STAGE II					
EASTBOUND	4164+00.00	4167+00.00	150		75
STAGE III					
WESTBOUND	4172+50.00	4182+50.00	500		250
WESTBOUND	4159+50.00	4163+00.00	175		88
STAGE IV					
WESTBOUND	4158+50.00	4161+00.00	50		25
TOTAL					1,750

REPLACEMENT REFLECTOR					78100300
EASTBOUND					EACH
SKIP-DASH	4144+50.00	4154+50.00			22
WESTBOUND					
SKIP-DASH	4172+50.00	4182+50.00			22
TOTAL					44

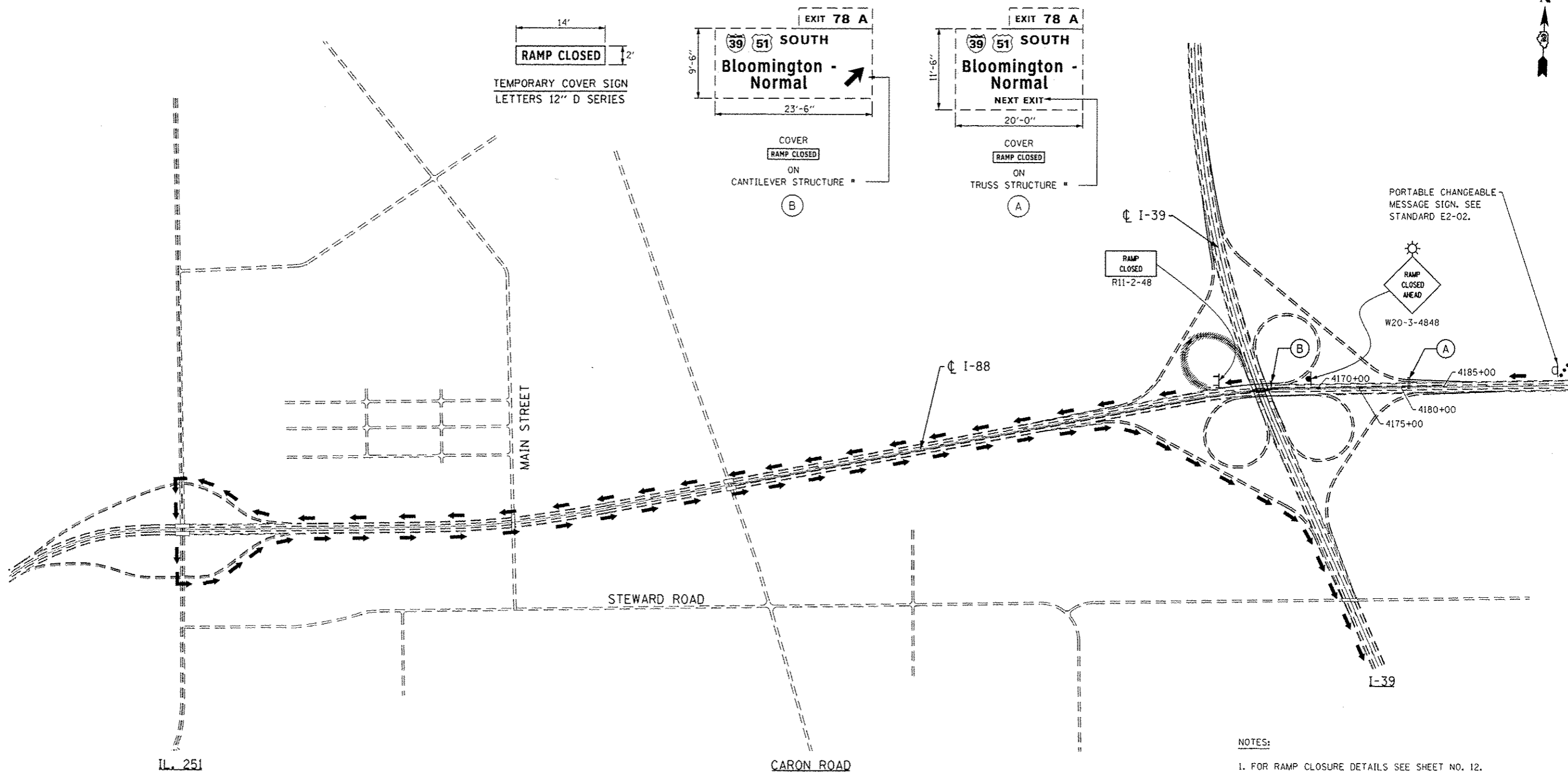
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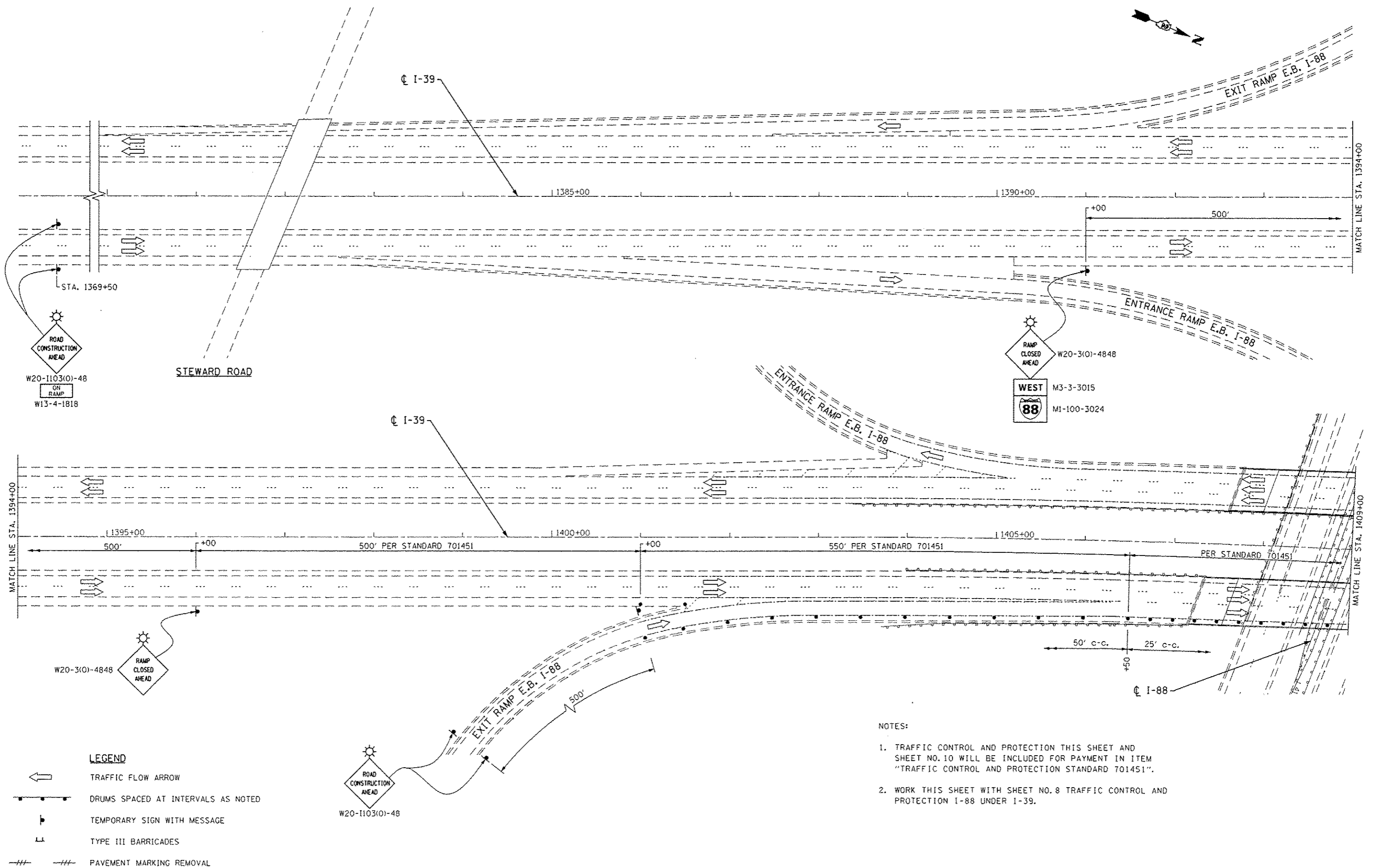
NOTES:
 1. FOR RAMP CLOSURE DETAILS SEE SHEET NO. 12.

LEGEND
 PROPOSED DETOUR TRAFFIC
 RAMP CLOSURE

FILE NAME: *FILES*	 CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	DESIGNED - G.F.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN I-39 OVER I-88 RAMP CLOSURE - STAGE II		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE: *DATES*		DRAWN - B.K.	REVISED -		39	D2 DECK REPAIR 2013-1	OGLE	32	7		
PLOT SCALE: *SCALE*		CHECKED - E.J.M.	REVISED -		CONTRACT NO. 64H73						
		DATE - AUGUST 2012	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			

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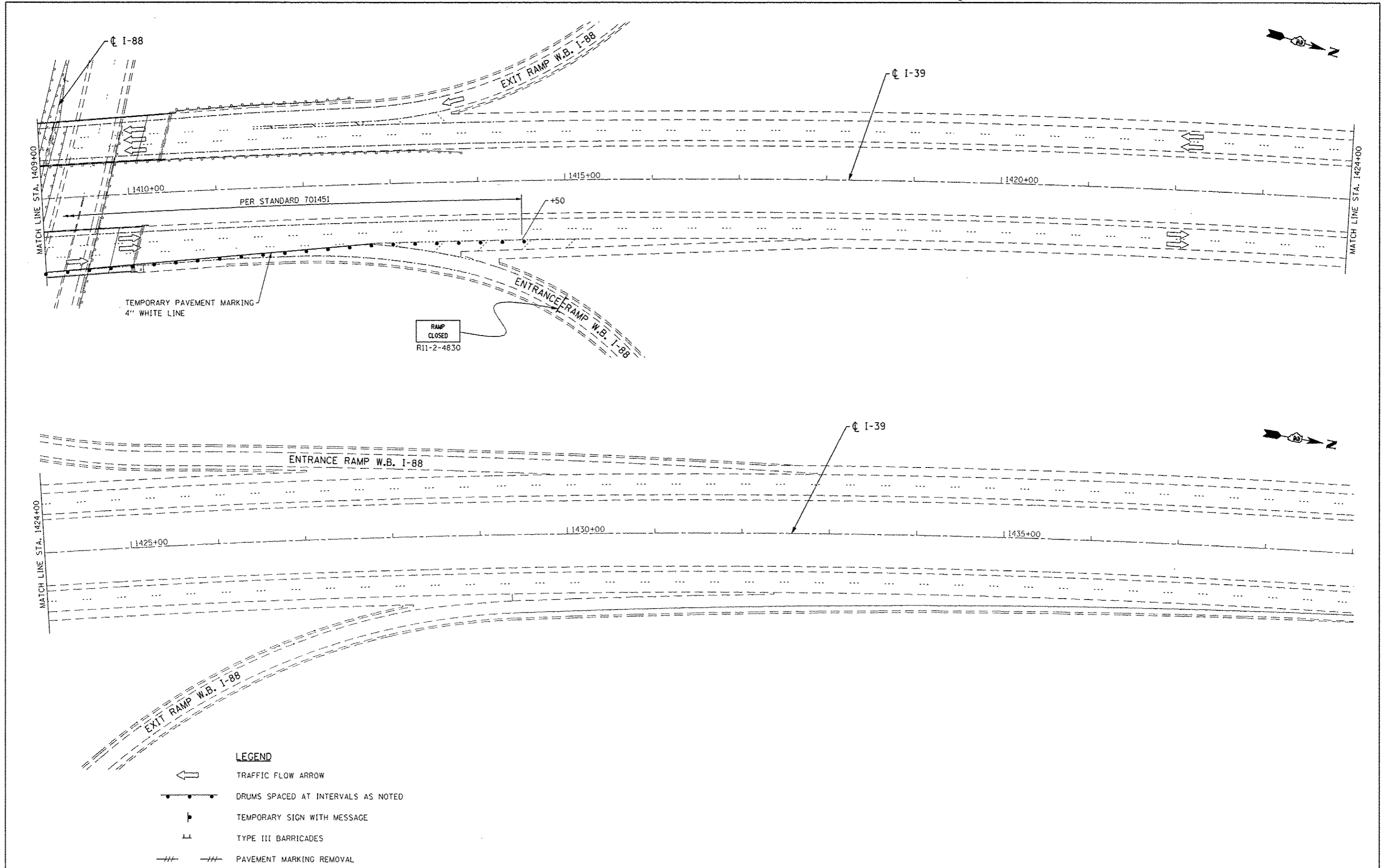
- LEGEND**
- TRAFFIC FLOW ARROW
 - DRUMS SPACED AT INTERVALS AS NOTED
 - TEMPORARY SIGN WITH MESSAGE
 - TYPE III BARRICADES
 - PAVEMENT MARKING REMOVAL

- NOTES:**
1. TRAFFIC CONTROL AND PROTECTION THIS SHEET AND SHEET NO. 10 WILL BE INCLUDED FOR PAYMENT IN ITEM "TRAFFIC CONTROL AND PROTECTION STANDARD 701451".
 2. WORK THIS SHEET WITH SHEET NO. 8 TRAFFIC CONTROL AND PROTECTION I-88 UNDER I-39.

FILE NAME = sht:stage1.01 I-39.dgn	CHRISTIAN-ROSE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	DESIGNED - E.M.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION STAGE I I-39 OVER I-88			F.A.I. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 9/6/2012		DRAWN - B.K.	REVISED -		39	D2 BRIDGE PAINTING 2013-2	OCLE	26	9			
PLOT SCALE = 100,0000' / IN.		CHECKED - G.F.L.	REVISED -		CONTRACT NO. 64J27							
		DATE - JULY 2012	REVISED -		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT							
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	



- LEGEND**
- TRAFFIC FLOW ARROW
 - DRUMS SPACED AT INTERVALS AS NOTED
 - TEMPORARY SIGN WITH MESSAGE
 - TYPE III BARRICADES
 - PAVEMENT MARKING REMOVAL

FILE NAME: tsh-tstogel.02 1-39.dgn
 PLOT DATE: 9/6/2012
 PLOT SCALE: 100,0000 1/ IN.

CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

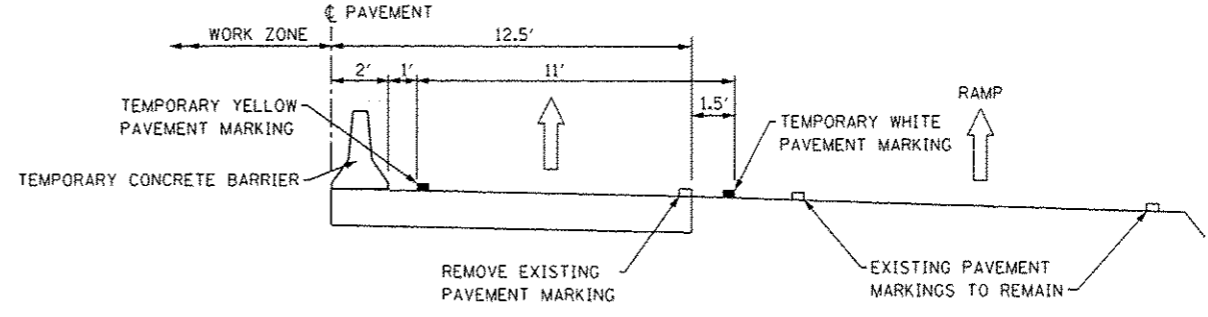
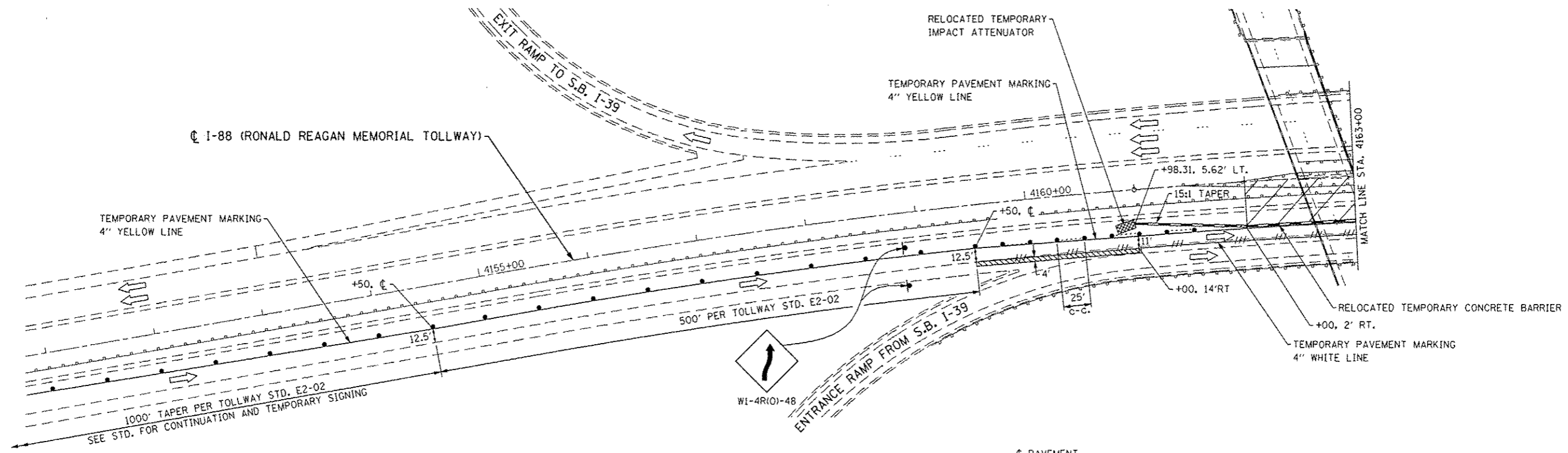
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION				
STAGE I				
I-39 OVER I-88				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

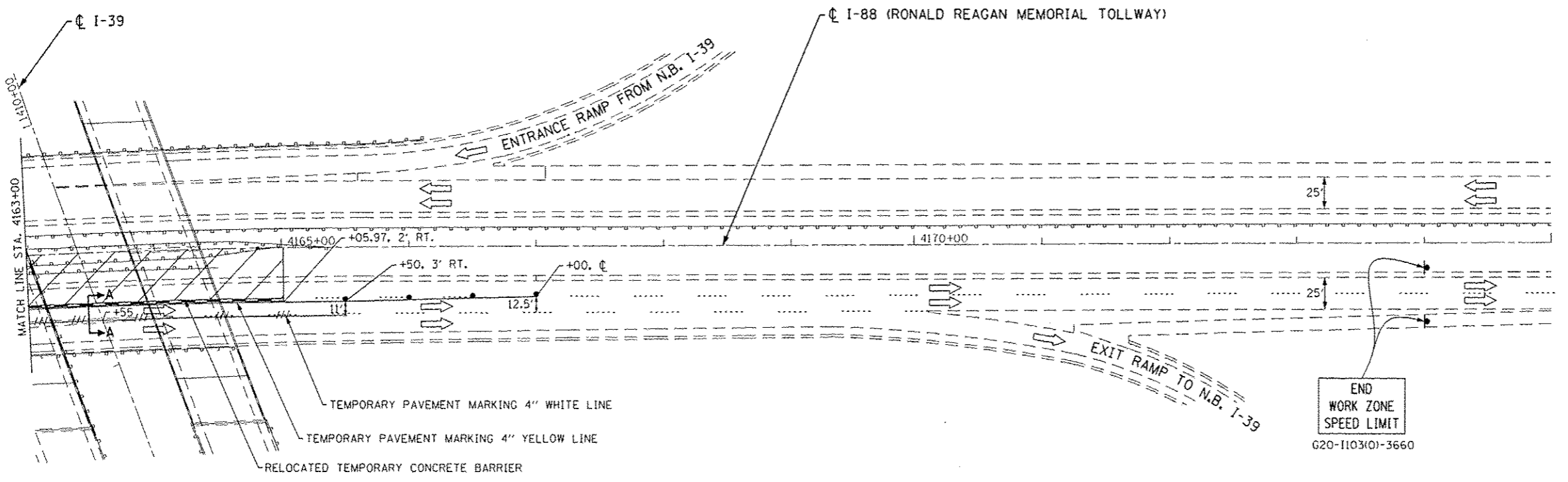
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	10
FED. ROAD DIST. NO. 1 [ILLINOIS]			FED. AID PROJECT	
			CONTRACT NO. 64J27	

DATE	
BY	
REVISIONS	
1. SURVEYED	
2. PLOTTED	
3. TEMPLATE	
4. NOTE BOOK	
5. PRESS CHECKED	
6. NO.	

DATE	
BY	
REVISIONS	
1. ORIGINAL	
2. SURVEY	
3. PLOTTED	
4. TEMPLATE	
5. NOTE BOOK	
6. PRESS CHECKED	
7. NO.	



SECTION A-A



LEGEND

- PROPOSED HMA SURFACE REMOVAL, 2" HMA SURFACE COURSE, MIX 'C', N50, 2"
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TRAFFIC FLOW ARROW
- WORK ZONE
- DRUMS SPACED AT INTERVALS AS NOTED
- PAVEMENT MARKING REMOVAL
- TEMPORARY SIGN WITH MESSAGE

FILE NAME: sht-stage2_01 I-88.dgn
 PLOT DATE: 9/6/2012
 PLOT SCALE: 100.0000 / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

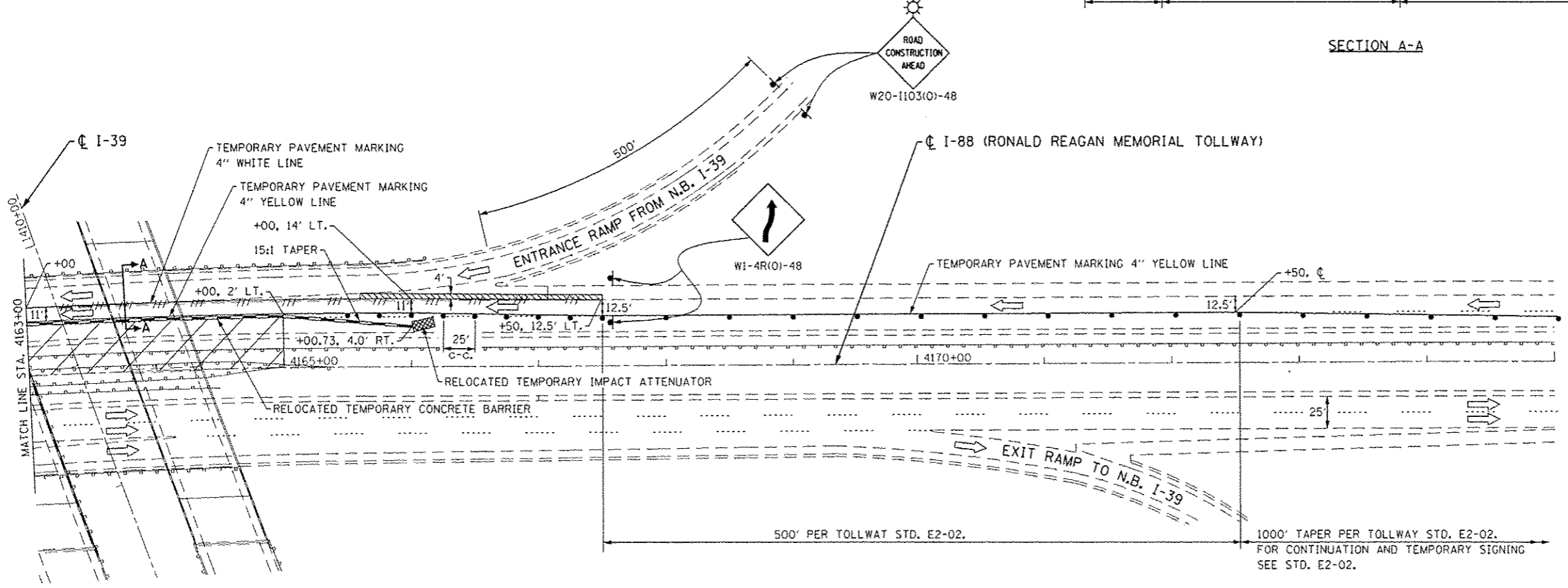
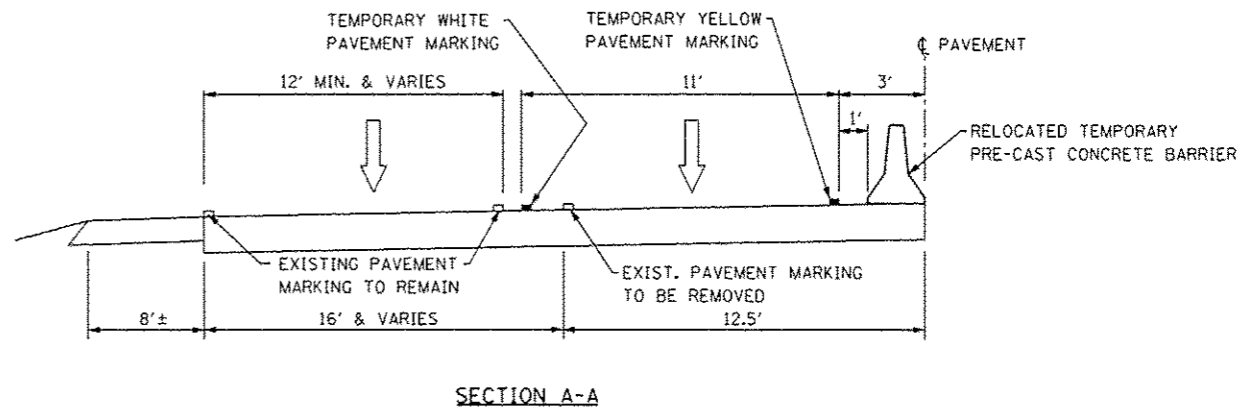
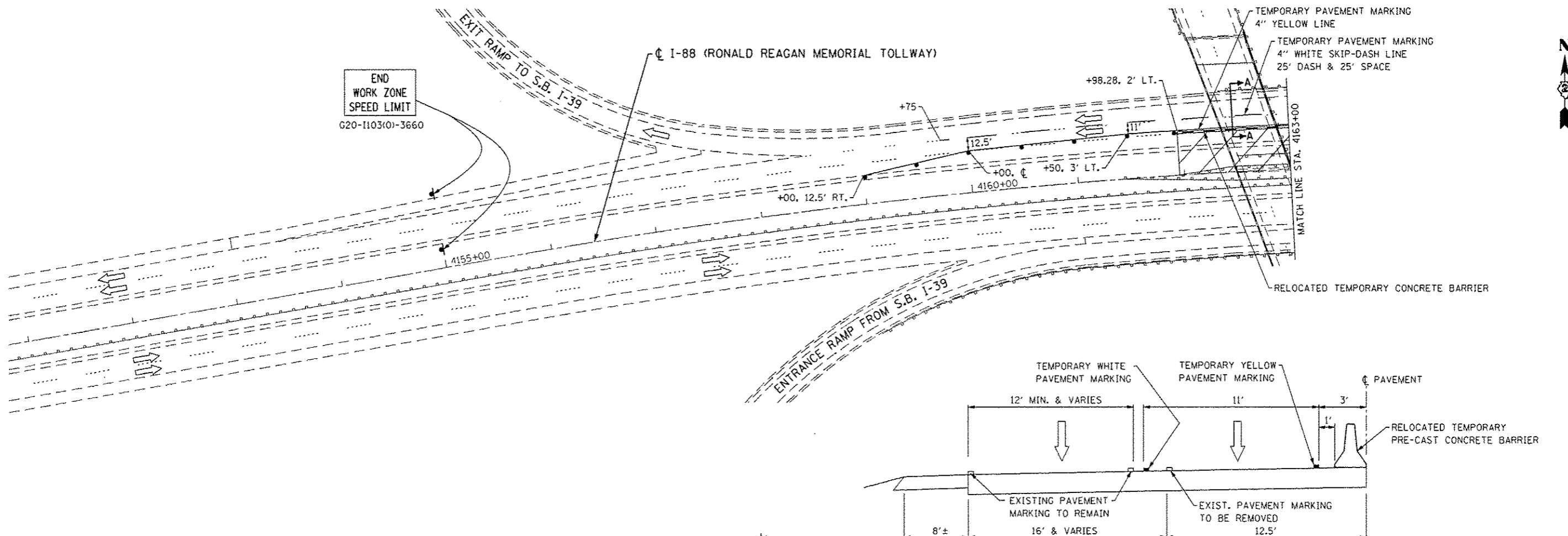
TRAFFIC CONTROL AND PROTECTION
I-88 UNDER I-39
STAGE II

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J27	

DATE	
BY	
REVISIONS	
1	REVISED
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3	REVISED
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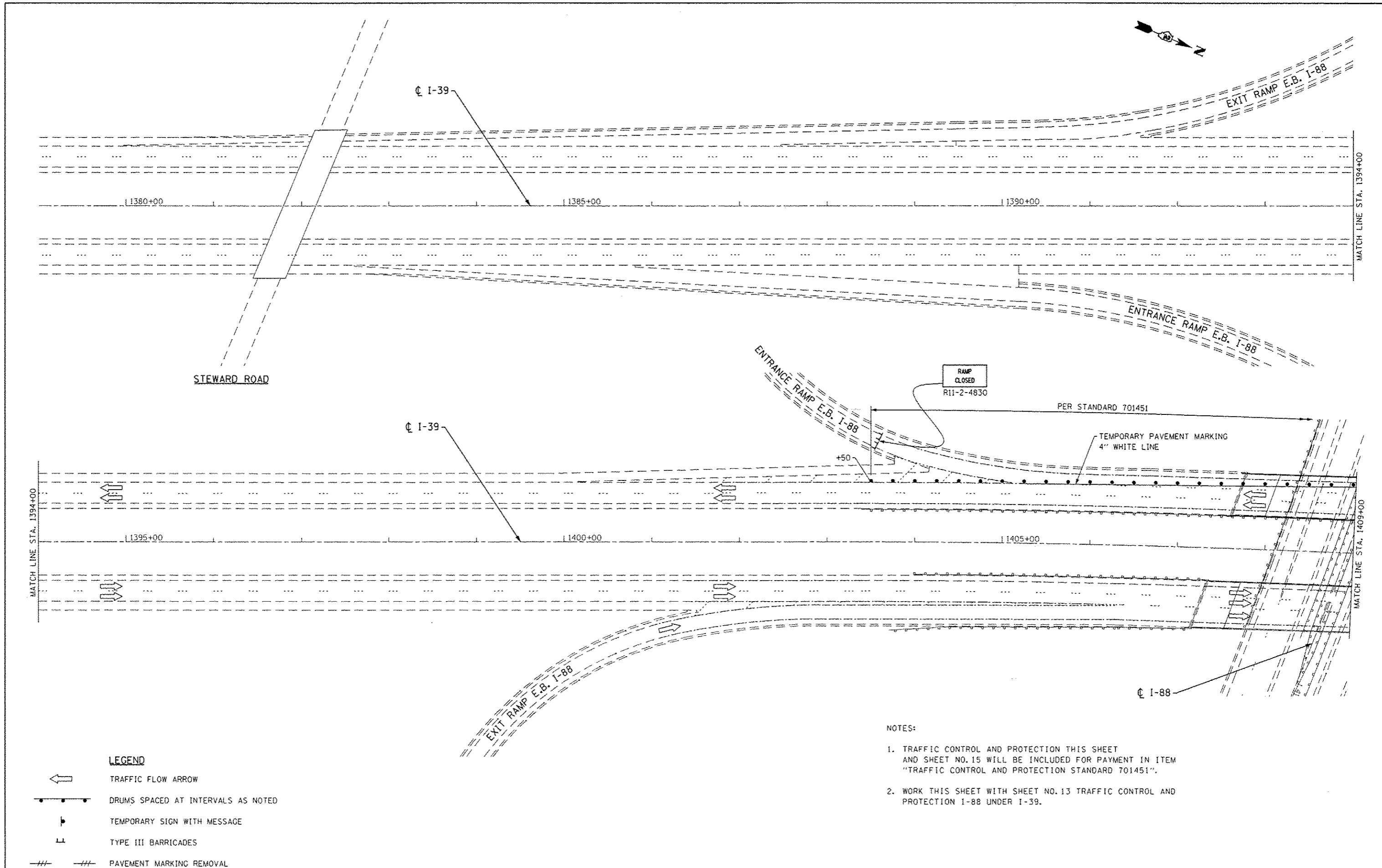


LEGEND

- PROPOSED HMA SURFACE REMOVAL, 2" HMA SURFACE COURSE, MIX 'C', N50, 2"
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TRAFFIC FLOW ARROW
- WORK ZONE
- DRUMS SPACED AT INTERVALS AS NOTED
- PAVEMENT MARKING REMOVAL
- TEMPORARY SIGN WITH MESSAGE

DATE	
BY	
FINAL SURVEY	
NOTED	
REVISIONS	
NO.	

DATE	
BY	
FINAL SURVEY	
NOTED	
REVISIONS	
NO.	



- NOTES:
1. TRAFFIC CONTROL AND PROTECTION THIS SHEET AND SHEET NO. 15 WILL BE INCLUDED FOR PAYMENT IN ITEM "TRAFFIC CONTROL AND PROTECTION STANDARD 701451".
 2. WORK THIS SHEET WITH SHEET NO. 13 TRAFFIC CONTROL AND PROTECTION I-88 UNDER I-39.

- LEGEND**
- ← TRAFFIC FLOW ARROW
 - DRUMS SPACED AT INTERVALS AS NOTED
 - ▬ TEMPORARY SIGN WITH MESSAGE
 - ⊥ TYPE III BARRICADES
 - PAVEMENT MARKING REMOVAL

FILE NAME: i-39-stage4.01-1-39.dgn
 PLOT DATE: 9/6/2012
 PLOT SCALE: 100.0000' / 1" = 100'

CR & A
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

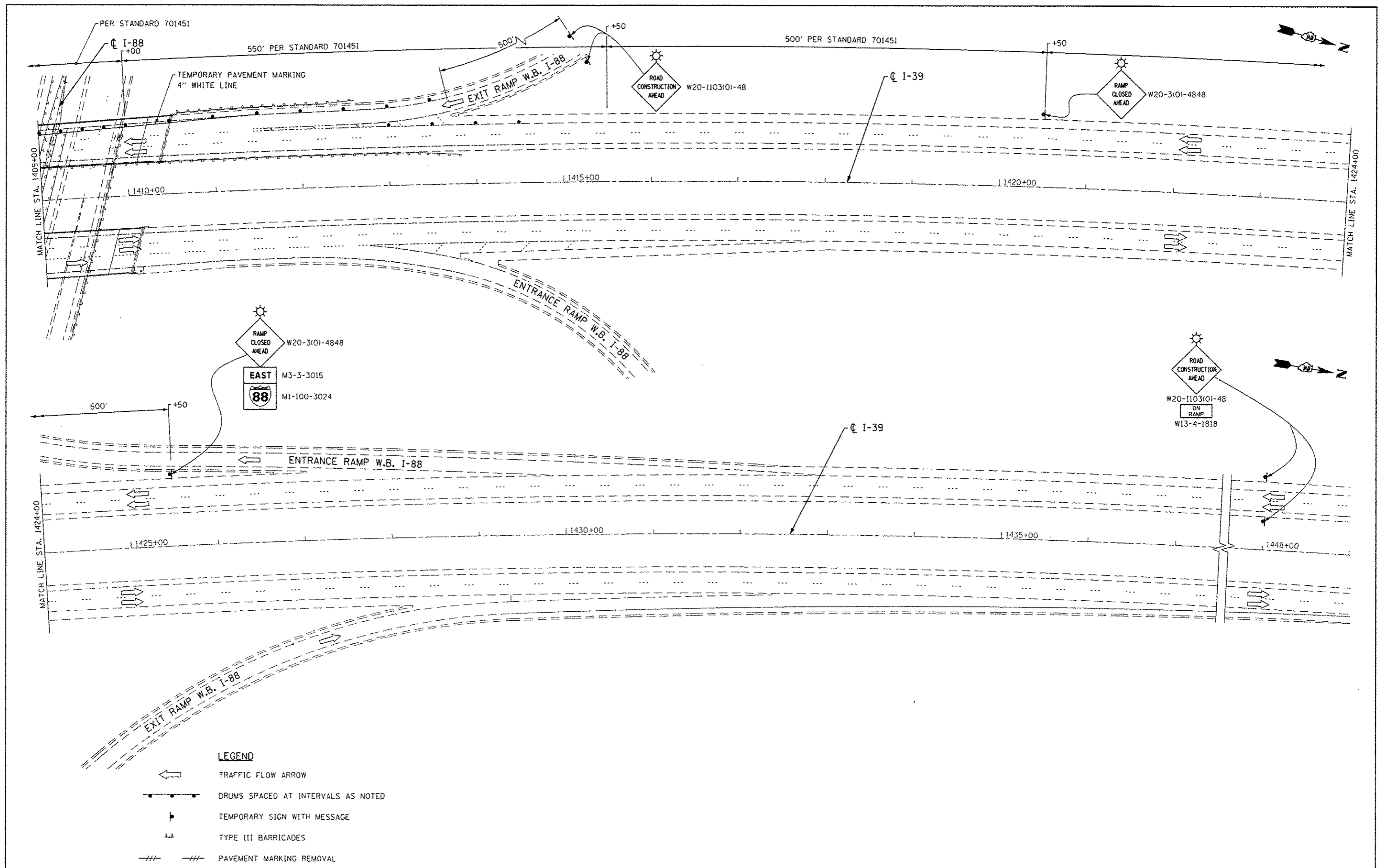
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION			
STAGE IV			
I-39 OVER I-88			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	02 BRIDGE PAINTING 2013-2	OCLE	26	14
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



- LEGEND**
- ← TRAFFIC FLOW ARROW
 - DRUMS SPACED AT INTERVALS AS NOTED
 - ▬ TEMPORARY SIGN WITH MESSAGE
 - ⊥ TYPE III BARRICADES
 - PAVEMENT MARKING REMOVAL

FILE NAME: sdt-stage4_02 I-39.dgn
 PLOT DATE: 9/6/2012
 PLOT SCALE: 100,0000 / 1 IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

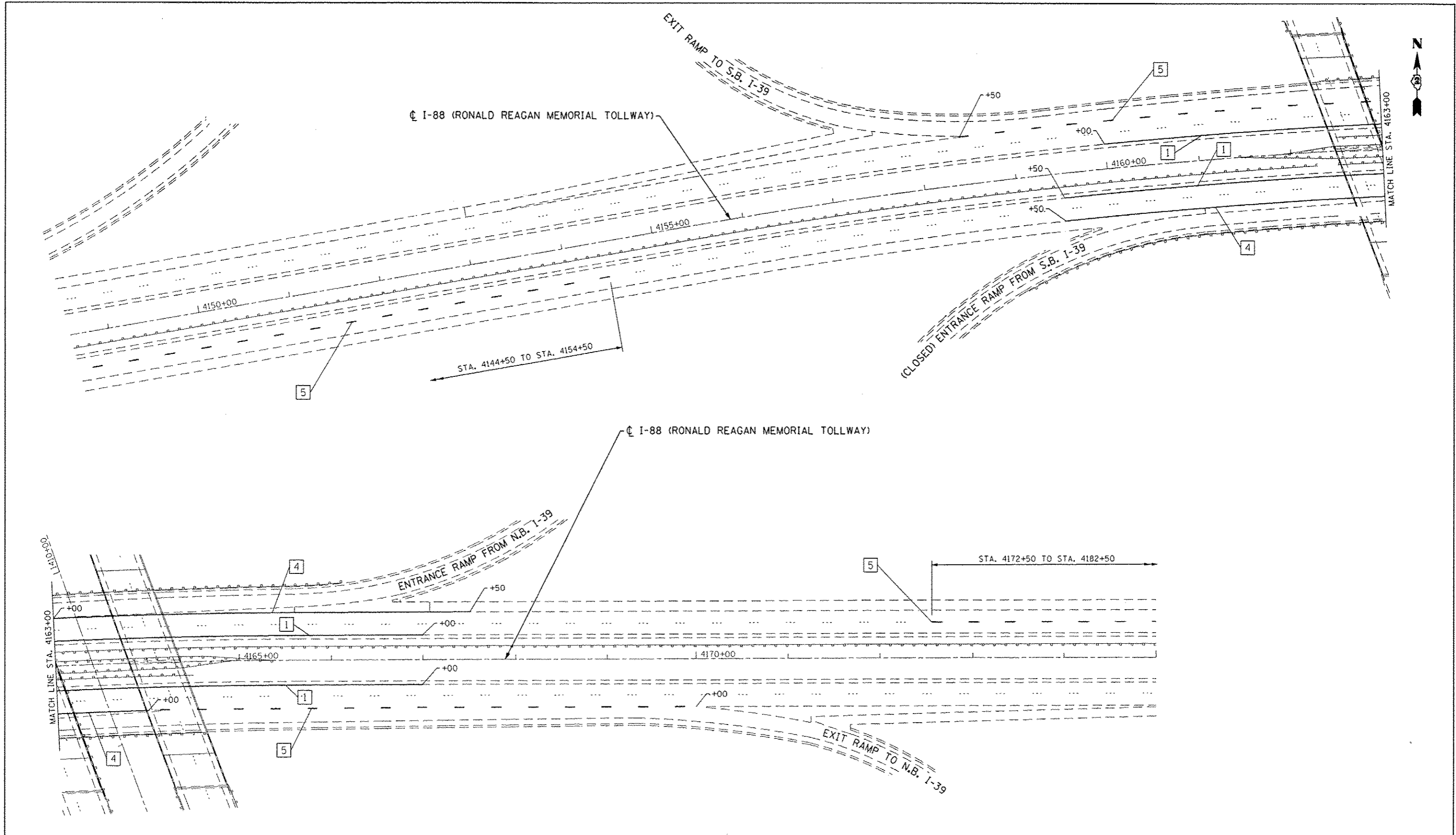
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION			
STAGE IV			
I-39 OVER I-88			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	15
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 64J27

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



LEGEND

- | | | |
|---|--|------------------------------------|
| 1 LINE 4" (YELLOW SOLID LINE) | 5 LINE 6" (WHITE LANE LINE - 25' DASH, 25' SKIP) | 9 LINE 12" (YELLOW SOLID LINE) |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 LINE 6" (WHITE SOLID LINE) | 10 LINE 12" (YELLOW DIAGONAL LINE) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 11 LINE 12" (WHITE SOLID LINE) |
| 4 LINE 4" (WHITE SOLID LINE) | 8 LINE 8" (WHITE SOLID LINE) | 12 LINE 12" (WHITE DIAGONAL LINE) |
| | | 13 LINE 24" (WHITE STOP BAR) |
| | | 14 LETTERS AND SYMBOLS (TYP.) |

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA UNLESS OTHERWISE SPECIFIED.

FILE NAME: sht1-pm 1-88.dgn
 PLOT DATE: 9/6/2012
 PLOT SCALE: 100,0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-9274

DESIGNED - E.M.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - G.F.L.	REVISED -
DATE - JULY 2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN			
I-88 UNDER I-39			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

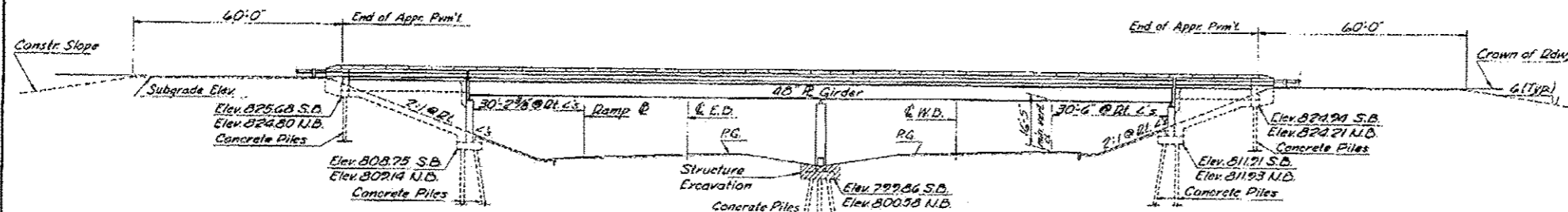
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	16
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J27	

FOR INFORMATION ONLY

Bench Mark "B": Iron Pin 4' U of D.O.W.
 Fence For Tollway 275' Lt. Sta. 1406+50.00
 Elev. 810.71.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 412	141-1A	OGLE	628	196
ILLINOIS PROJECT				
28 SHEETS				



NOTE ON INTERRUPTION OF TRAFFIC

The Contractor shall schedule his work (especially the structural steel erection) so as to interfere as little as possible with the flow of traffic on the tollway. One lane in each direction will be closed (with necessary signing) when required, as approved by the Engineer. The remaining lane may be closed a maximum of 30 minutes in a two hour period, with the Engineer's approval of the construction schedule and the provisions for signing and flagmen.

CURVE DATA

*FA RTE 412

PI. Sta. 1477+95.97
 Δ = 22° 37' 48"
 D = 0° 28' 00"
 Q = 12,777.667'
 T = 2,426.66'
 L = 4,042.28'
 E = 242.57'
 S_a = 0.0234

S.A. = Crown Reduced to Zero
 Sta. 1401+78.91 to Sta. 1402+18.91
 Sta. 1451+08.19 to Sta. 1453+48.18

E-W TOLLWAY

PI. Sta. 4160+5802
 Δ = 9° 46' 34"
 D = 0° 58' 00"
 Q = 39,771.5'
 T = 306.89'
 L = 1011.32'
 E = 21.71'
 S_a = 0.047

APPROVED

FOR STRUCTURAL ADOPTANCE ONLY

[Signature]

SEAL OF ILLINOIS ENGINEERS AND SURVEYORS

STATION 1408+92.95
 BUILT IN BY
 STATE OF ILLINOIS
 FA. RTE. 412 SEC. 141-1HB-1
 PROJECT FF-FPB-412-804
 LOADING HS 20

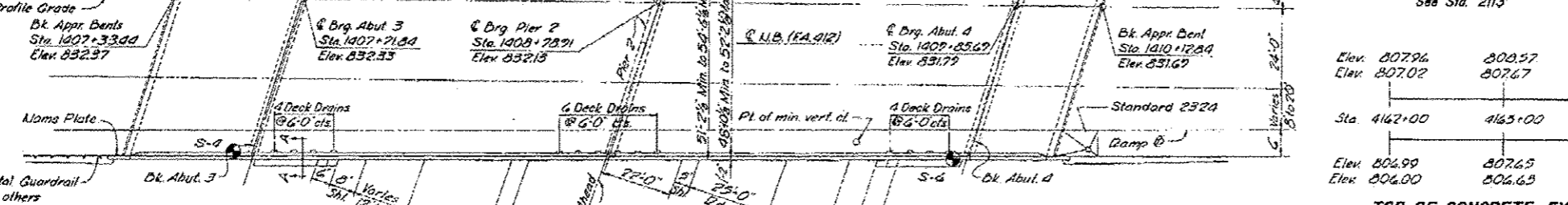
NAME PLATE

See Std. 2113

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB.	TOTAL
Structure Excavation	Cu. Yd.		250	250
Class X Concrete	Cu. Yd.	9124	7203	16327
Structural Steel	Lump Sum	0.44		0.44
Reinforcement Bars	Lbs.	239,000	23,620	362,620
Concrete Piles	Lin. Ft.		7806	7806
Test Piles (Concrete)	Each		6	6
Slipwall (C)	Sq. Yd.		1060	1060
Bitum. Surf. Mixture D, Class I	Tons	259		259
Waterproofing Membrane Sys.	Sq. Yd.	3080		3080
Preformed Joint Sealer (A)	Lin. Ft.	223		223
Stud Shear Connectors, 3/4"	Each	8400		8400
Protective Coat	Sq. Yd.	427		427
PPC I Beam (36")	Lin. Ft.	727		727
Name Plates	Each	2		2
Aluminum Railing	Lin. Ft.	1104		1104

*Note: Inside Fascia Lines are straight and parallel to the tangent of FA 412 @ Sta. 1408+92.95. The outside Fascia Lines are straight and flared to approximate the outside of the ramps.



Elev. 807.96	808.57	809.15	809.72 (27' LT)
Elev. 807.02	807.67	808.24	808.83 (27' LT)
W.B.			
Sta. 4162+00	4163+00	4164+00	4165+00
E.D.			
Elev. 806.99	807.65	808.17	808.85 (27' RT)
Elev. 806.00	806.65	807.12	807.91 (52' RT)

TOP OF CONCRETE EXISTING E-W TOLLWAY

(From Field Survey Notes)

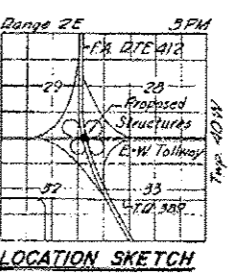
DESIGN STRESSES

Field Units.

f_c = 1400 psi (Curb, Parapet, Sub. Appr. Slab)
 f_s = 70,000 psi (Reinf.)
 f_s = 20,000 psi to 27,000 psi. M113 = M273 / Struct. Grade 50
 v_c = 75 psi (Figs.)
 n = 9
 Allowable & Deflection = 1/1600 or 1/1200
 Allow 25% for future W.S.
 Design Specifications - 1973 AASHTO as applicable.

Precast Prestress Units
 f_c = 5000 psi f_s = 270,000 psi (1/2" Strands)
 f_c = 4000 psi f_s = 180,000 psi (3/8" Strands)

LOADING HS 20-44



GENERAL PLAN & ELEVATION

FA. RTE. 412 OVER E-W TOLLWAY

FA. RTE. 412 SECTION 141-1HB-1

OGLE COUNTY

STA. 1408 + 92.95 (F.A.P. RTE. 412)

PLANS PREPARED BY AMERICAN ENG. CO.

DATE	BY	REVISION

DATE	BY	REVISION

DESIGNED	MVM
CHECKED	HMW
DRAWN	CWD
CHECKED	HMW

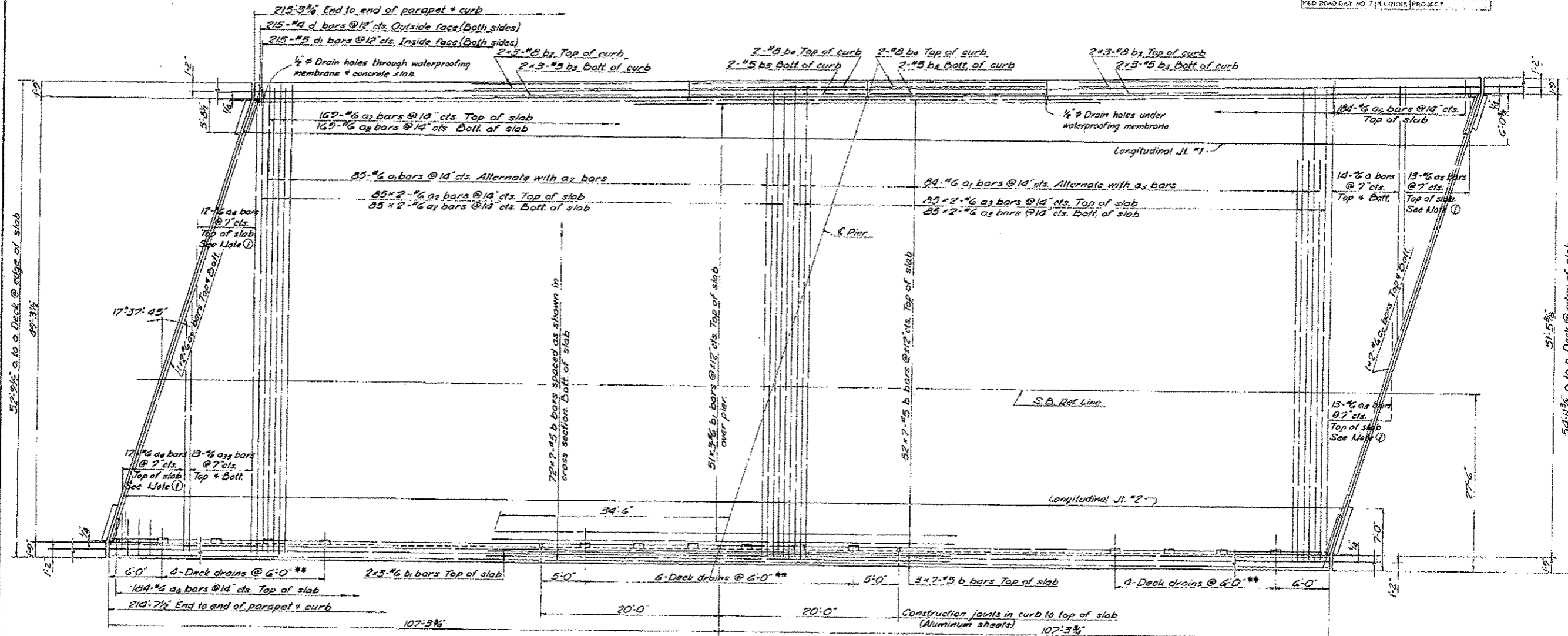


FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

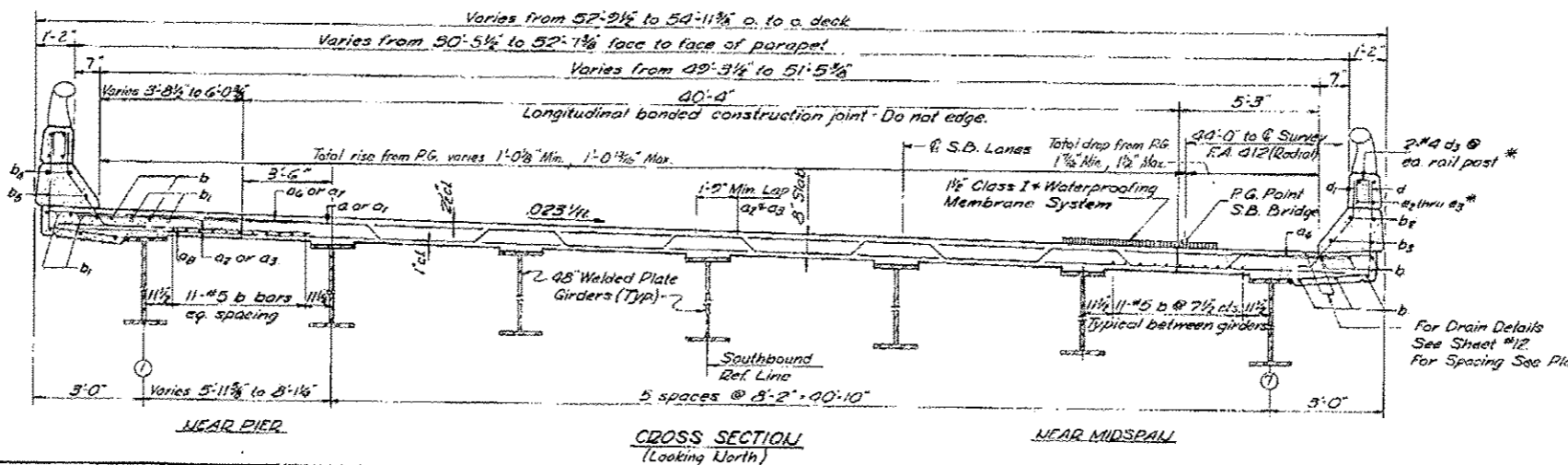
ROUTE NO.	SFD	COUNTY	TOTAL SHEETS	SHEET NO.
FA 412-141-A		OGLE	628	205
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

SHEET NO. 10
28 SHEETS



PLAN

Note ①: Order a₄ & a₅ bars full length. Cut to fit and use remainder in bolt of slab.



CROSS SECTION
(Looking North)

* Note: For placement of bars d₃ and e₂ thru e₃, see sheet #13.
** Note: Deck drains on East curb only.

DESIGNED	MYM
CHECKED	HMW
DRAWN	CWB
CHECKED	HMW

SUPERSTRUCTURE
SOUTHBOUND LANE
F.A. RTE. 412 SEC. 141-1HB-1
OGLE COUNTY
STA. 1408 + 92.95 (F.A. RTE. 412)

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

FILE NAME: 0264327-sht-Superstructure.dwg
PLOT DATE: 9/6/2012
PLOT SCALE: 1/8" = 1'-0"

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	G.F.L.	REVISED	
DRAWN	K.R.K.	REVISED	
CHECKED	E.J.M.	REVISED	
DATE	JULY 2012	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE SOUTHBOUND LANE

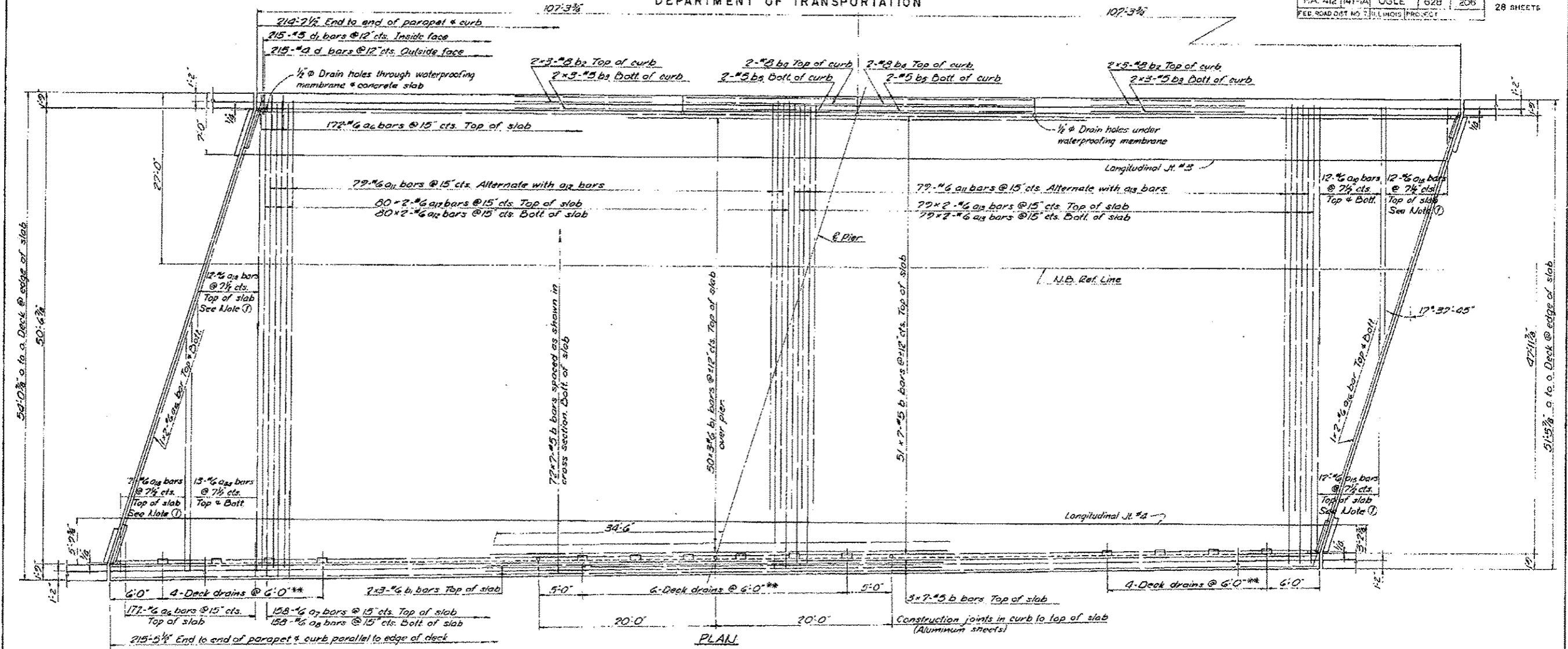
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	18
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

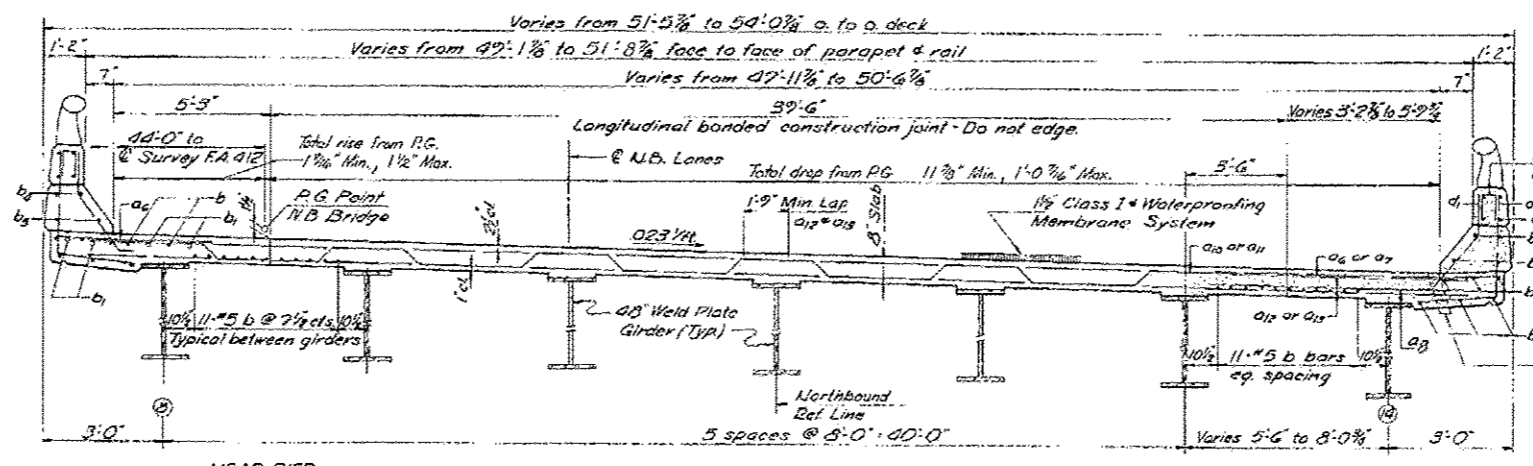
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SEC.	COUNTY	SHEET NO.	SHEET NO.
FA 412	141-1A	OGLE	62B	206
FED. ROAD DIST. NO. 1 ILLINOIS			PRE-FCR	



PLAN



CROSS SECTION
(Looking North)

Note ①: Order a₁₆ & a₁₈ bars full length. Cut to fit and use remainder in bott. of slab.

* Note: For placement of bars a₃ and a₅ thru a₅, see sheet #13.
** Note: Deck drains on East curb only.

DESIGNED	MVM
CHECKED	HMW
DRAWN	CWB
CHECKED	HMW

SUPERSTRUCTURE
NORTHBOUND LANE
F.A. RTE. 412 SEC. 141-1HB-1
OGLE COUNTY
STA. 140B+92.95 (F.A. RTE. 412)

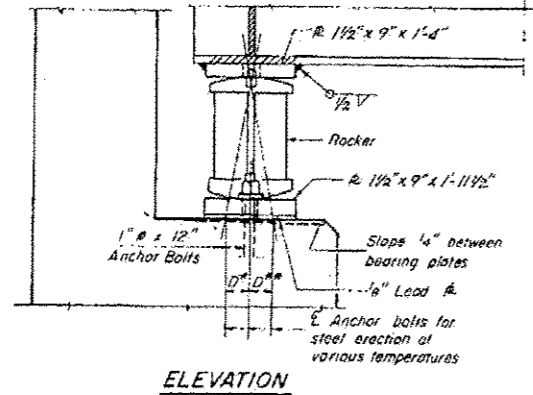
DATE	
BY	
REVISIONS	
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DATE	
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REVISIONS	
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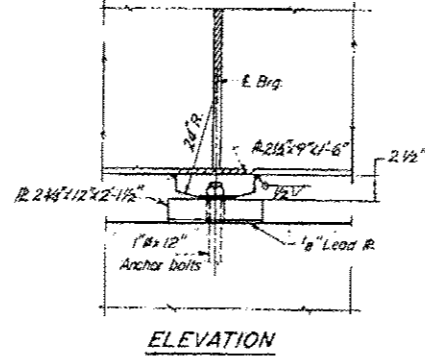
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

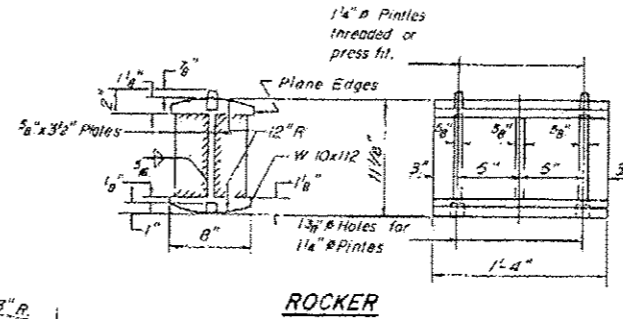
FA. 412-141-1A OGLE 828 211 28 SHEETS



ELEVATION



ELEVATION

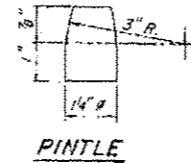


ROCKER

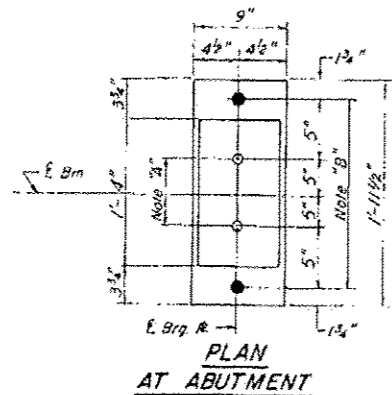
I_s and *S_s* are the moment of inertia and section modulus of the steel section. *I_c* and *S_c* are the moment of inertia and the section modulus of the composite section used in computing *f_s*.

V_R is the maximum LL + impact shear range in a span.

	0.4 Span 1	Pier	0.6 Span 2
<i>I_s</i> (in ⁴)	18,884.2	42,514.3	18,884.2
<i>S_s</i> (in ³)	870.68	1,443.06	870.68
DL (ft-k)	1015.9	1146.0	1015.9
M _{DL} (ft-k)	687.0	1767.8	687.0
<i>f_s</i> DL (ksi)	9.47	12.91	9.47
<i>I_c</i> (in ⁴)	37,478.6	✓	37,478.6
<i>S_c</i> (in ³)	1129.52	✓	1129.52
SCDL (ft-k)	531.5	531.5	531.5
M _{CDL} (ft-k)	423.0	751.16	423.0
<i>f_s</i> CDL (ksi)	4.49	5.49	4.49
<i>I_c</i> (neg) (in ⁴)	31,908.8	✓	31,908.8
<i>S_c</i> (in ³)	1236.0	✓	1236.0
M _{LL} (ft-k)	1011.6	854.0	1011.6
M _{IMP} (ft-k)	218.5	184.4	218.5
M _{TOTAL} (ft-k)	1230.1	1038.4	1230.1
<i>f_s</i> LL (ksi)	11.94	7.58	11.94
<i>f_s</i> TOTAL (ksi)	23.90	23.98	23.90
<i>V_R</i>	73.5	✓	73.5

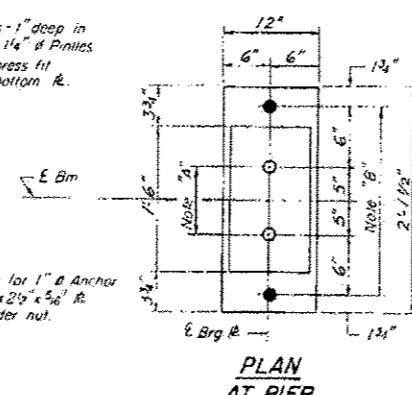


PIN



PLAN AT ABUTMENT

Note "A"
1 3/8" Holes - 1" deep in top R. for 1 1/4" Pintles Thread or press fit pintles in bottom R.

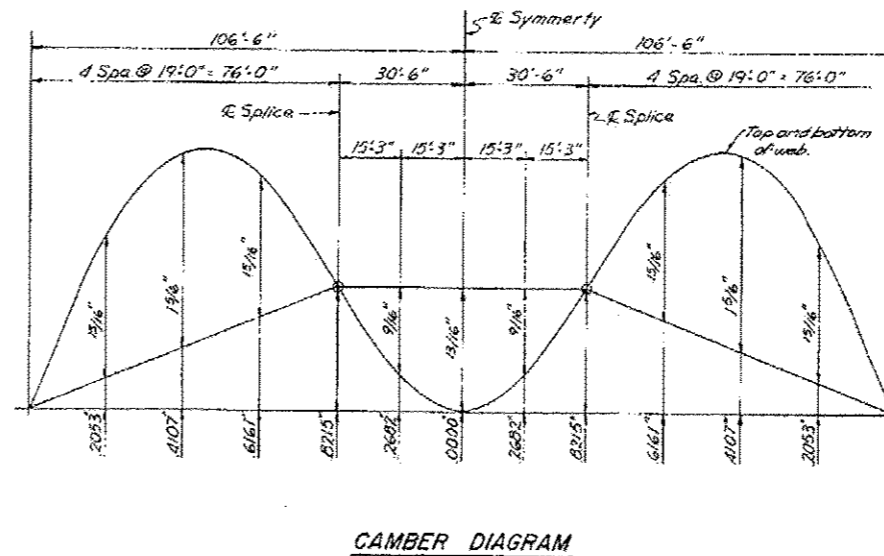


PLAN AT PIER

Note "B"
1 1/2" Holes for 1" Anchor Bolts - 2 1/2" x 2 1/2" x 5/8" R. Washers under nut.

NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a) *D*¹ Side of brg away from fixed brg
*D*² = 1/8" per each 100' of expansion for every 15° fall below the normal temp of 50° F.
- D*⁴ Side of brg toward fixed brg
*D*⁴ = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b) After beams have been erected and dimensions *D*¹ & *D*² determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



CAMBER DIAGRAM

DESIGNED	MVM
CHECKED	HMW
DRAWN	BSB
CHECKED	HMW

I-2-6 3-29-71

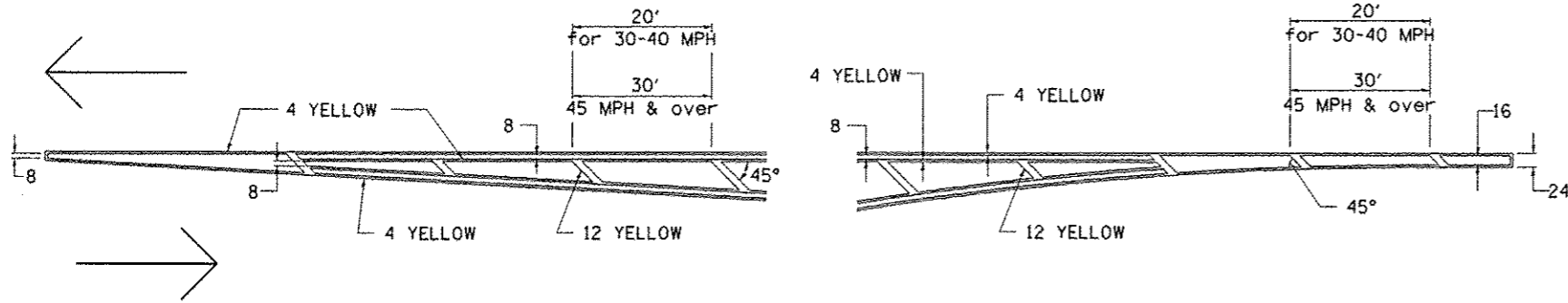
	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12	Girder 13	Girder 14
€ Brg. S. Abut.	832.328	832.194	832.011	831.828	831.645	831.462	831.279	831.096	830.912	830.728	830.544	830.360	830.176	829.992
€ Splice #1	832.173	832.024	831.842	831.662	831.480	831.299	831.117	830.937	830.756	830.575	830.394	830.213	830.032	829.851
€ Brg. Pier	832.022	831.847	831.686	831.506	831.325	831.145	830.964	830.784	830.603	830.422	830.241	830.060	829.879	829.698
€ Splice #2	832.008	831.847	831.667	831.488	831.308	831.128	830.948	830.767	830.587	830.406	830.225	830.044	829.863	829.682
€ Brg. N. Abut.	831.755	831.578	831.400	831.222	831.043	830.865	830.687	830.508	830.329	830.150	829.971	829.792	829.613	829.434

* For Girder Fabrication Only.

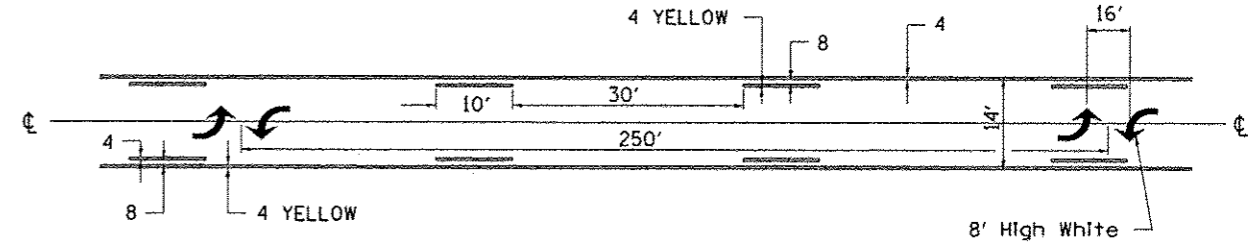
BEARING DETAILS
F.A. RTE. 412 SEC. 141-IHB-1
OGLE COUNTY
STA. 1408 + 92.95 (F.A. RTE. 412)

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

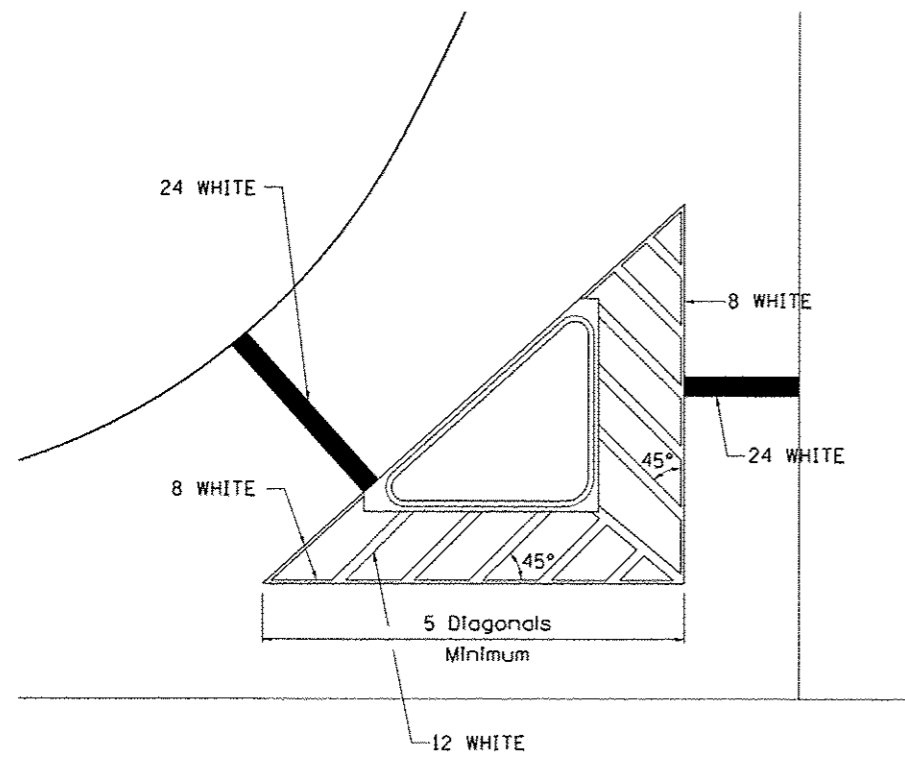


MEDIAN PAVEMENT MARKING

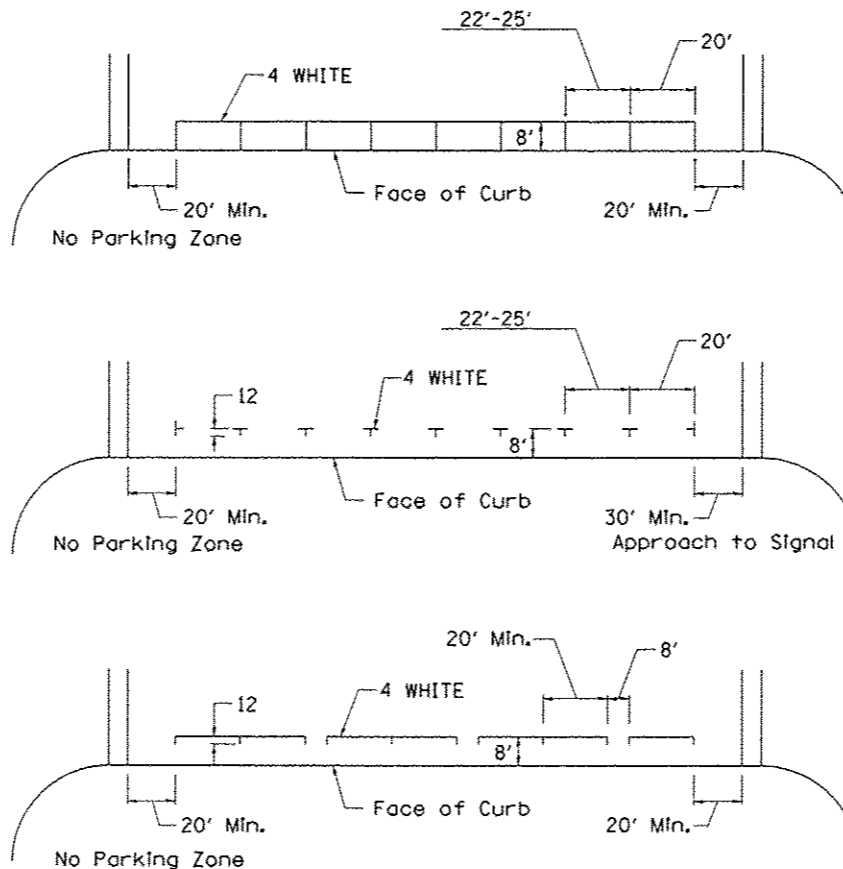


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

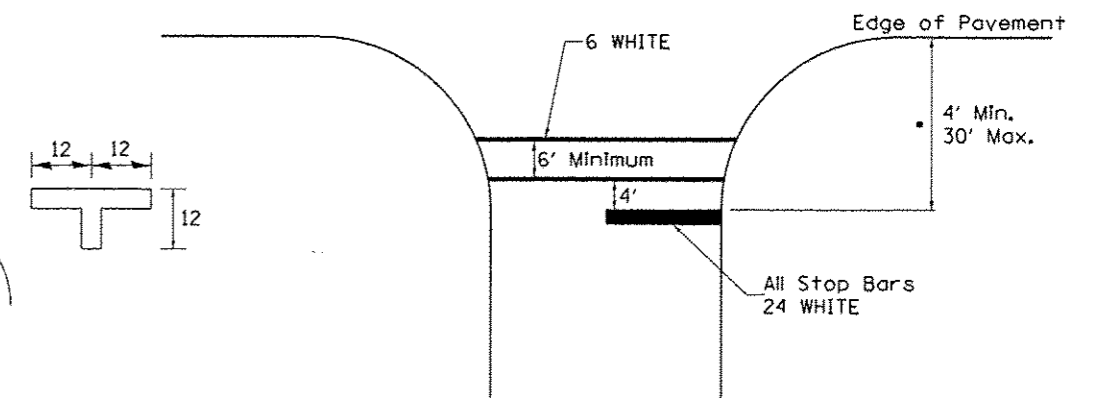


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

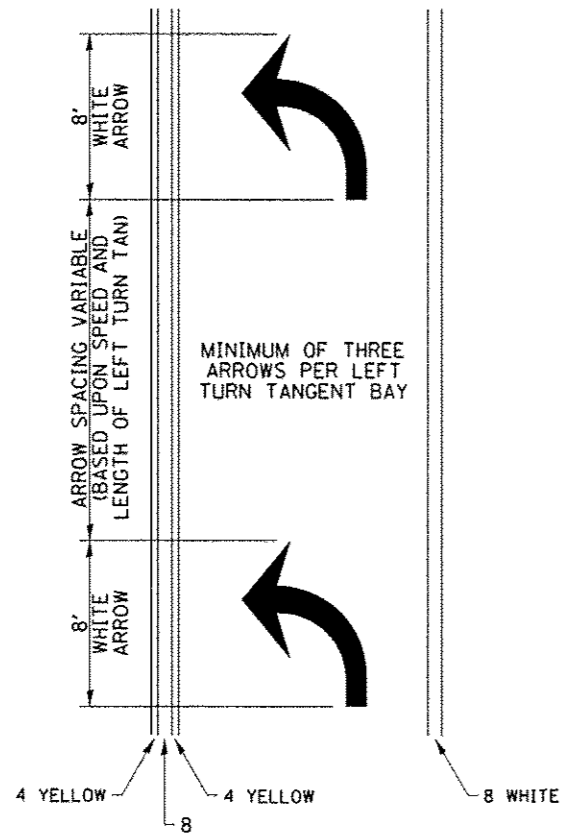


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME I:\182700-1-39 bridge painting\CADD Sheets\0264J27-sh1-STD41.dgn	USER NAME IGOT	DESIGNED -	REVISED 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. R.T.E. 39	SECTION D2 BRIDGE PAINTING 2013-2	COUNTY OGLE	TOTAL SHEETS 26	SHEET NO. 23
PLOT SCALE 100,0000 / IN.	CHECKED -	REVISOR -	SCALE					SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 64J27
PLOT DATE 9/6/2012	DATE -	REVISOR -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3												

TYPICAL PAVEMENT MARKINGS

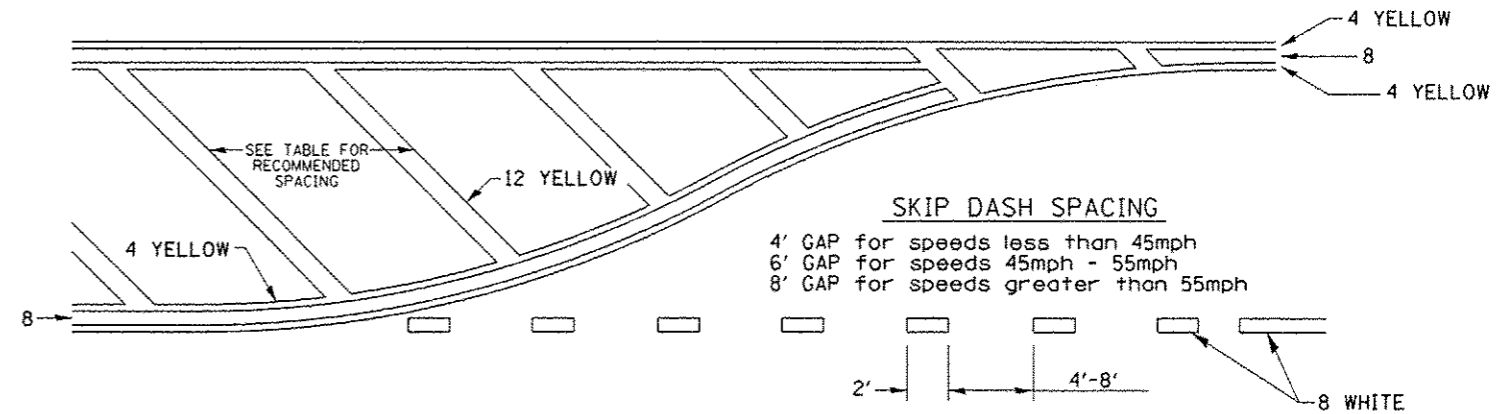
ARROW LAYOUT



- ▲ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

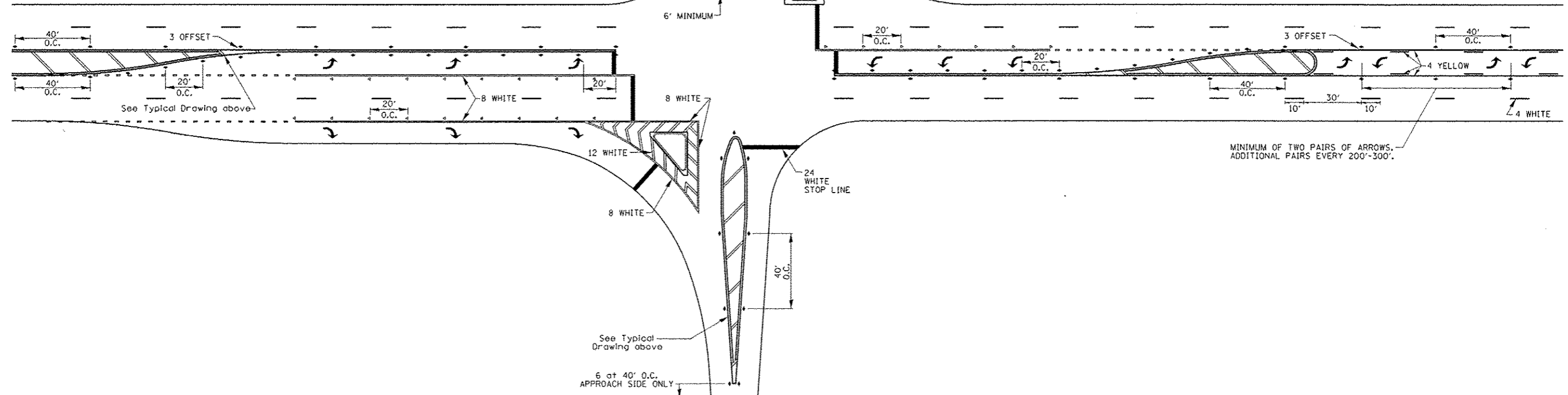
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

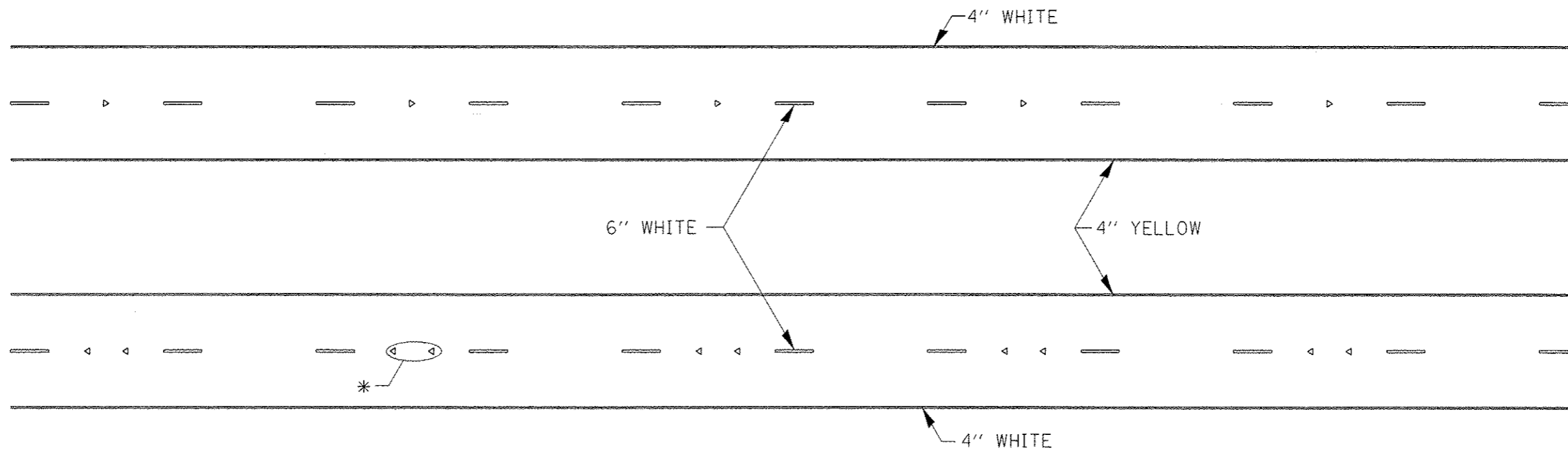
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



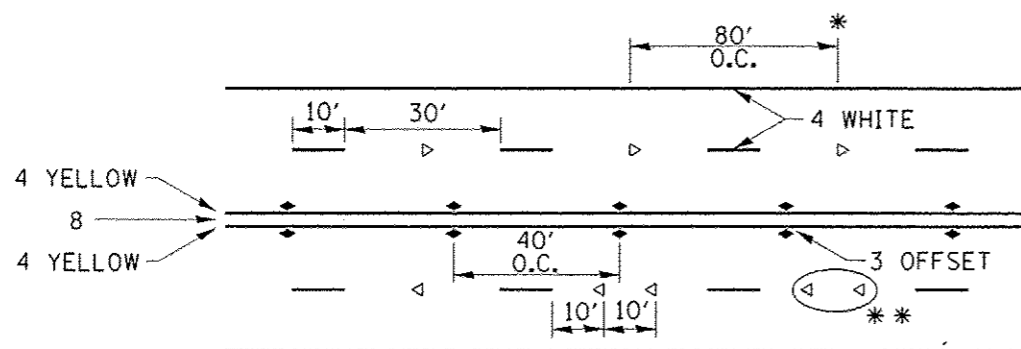
FILE NAME -	USER NAME - IDOT	DESIGNED -	REVISED - 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Ir\102798.1-39 bridge painting\CADD Sheets\0264J27-sub-ST041.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	39	D2 BRIDGE PAINTING 2013-2	OGLE	26	24
		CHECKED -	REVISED -						CONTRACT NO. 64J27					
		DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 25,000.

MULTI-LANE / DIVIDED

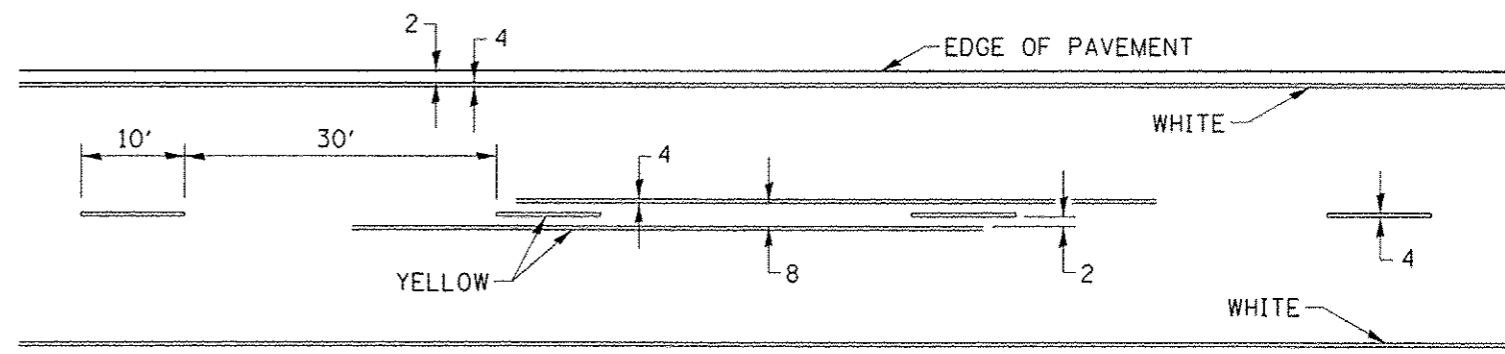


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT \geq 25,000

MULTI-LANE / UNDIVIDED

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



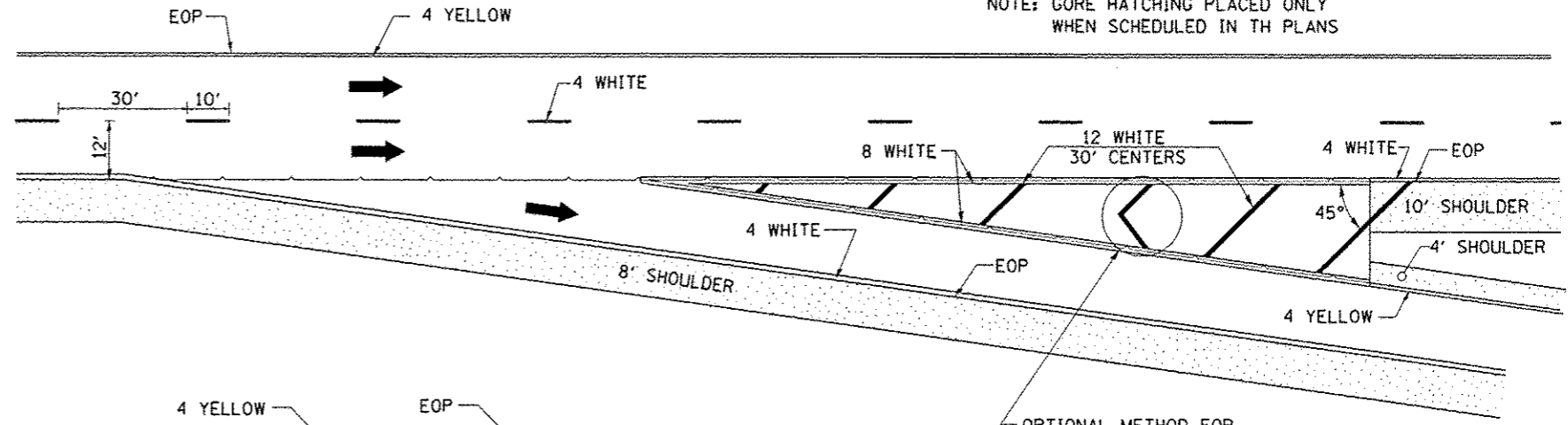
SYMBOLS

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. :	SECTION :	COUNTY :	TOTAL SHEETS :	SHEET NO. :
I:\102700-1-39 bridge painting\CADD Sheets\10264J27-sht-ST041.dgn	DDOT	-	10-18-11			39	D2 BRIDGE PAINTING 2013-2	OGLE	26	25
PLOT SCALE = 100.0000 / 1/4"		CHECKED :				SCALE:		SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
PLOT DATE = 9/6/2012		DATE :								CONTRACT NO. 64J27

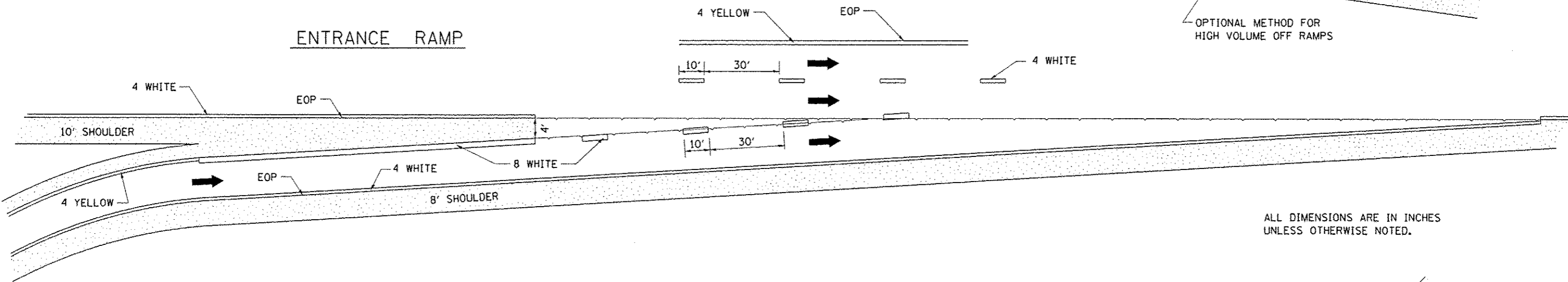
PAINTING DETAILS

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN TH PLANS

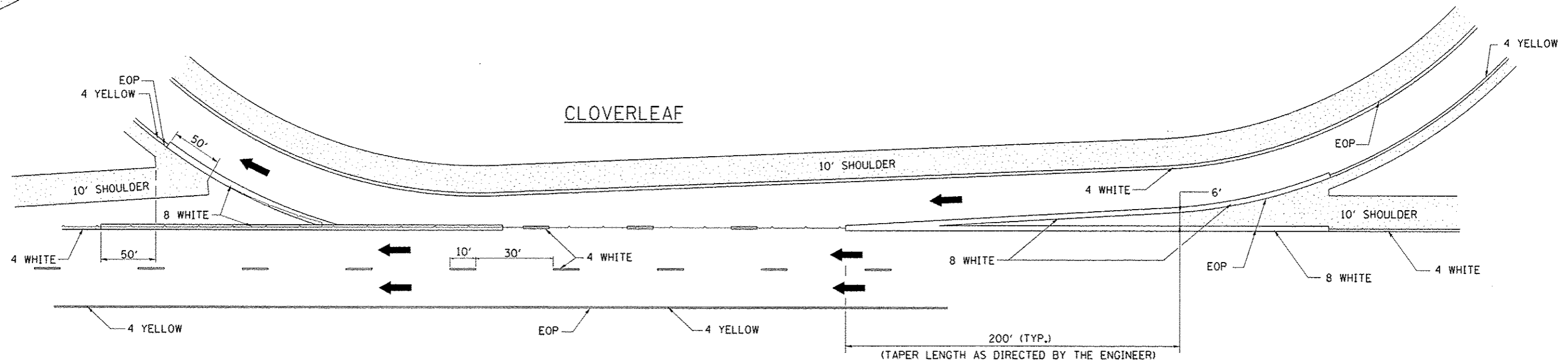


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



FILE NAME =	USER NAME = 1007	DESIGNED -	REVISED - 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
1:\102700.1-39 bridge painting\CADD Sheets\0264J27-sht-STD44.dgn		DRAWN -	REVISED -			39	D2 BRIDGE PAINTING 2013-2	OGLE	26	26	
PLOT SCALE = 1/8" = 1' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64J27					
PLOT DATE = 9/6/2012		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					