

11-9-12 LETTING ITEM 013  
 FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR STATE STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

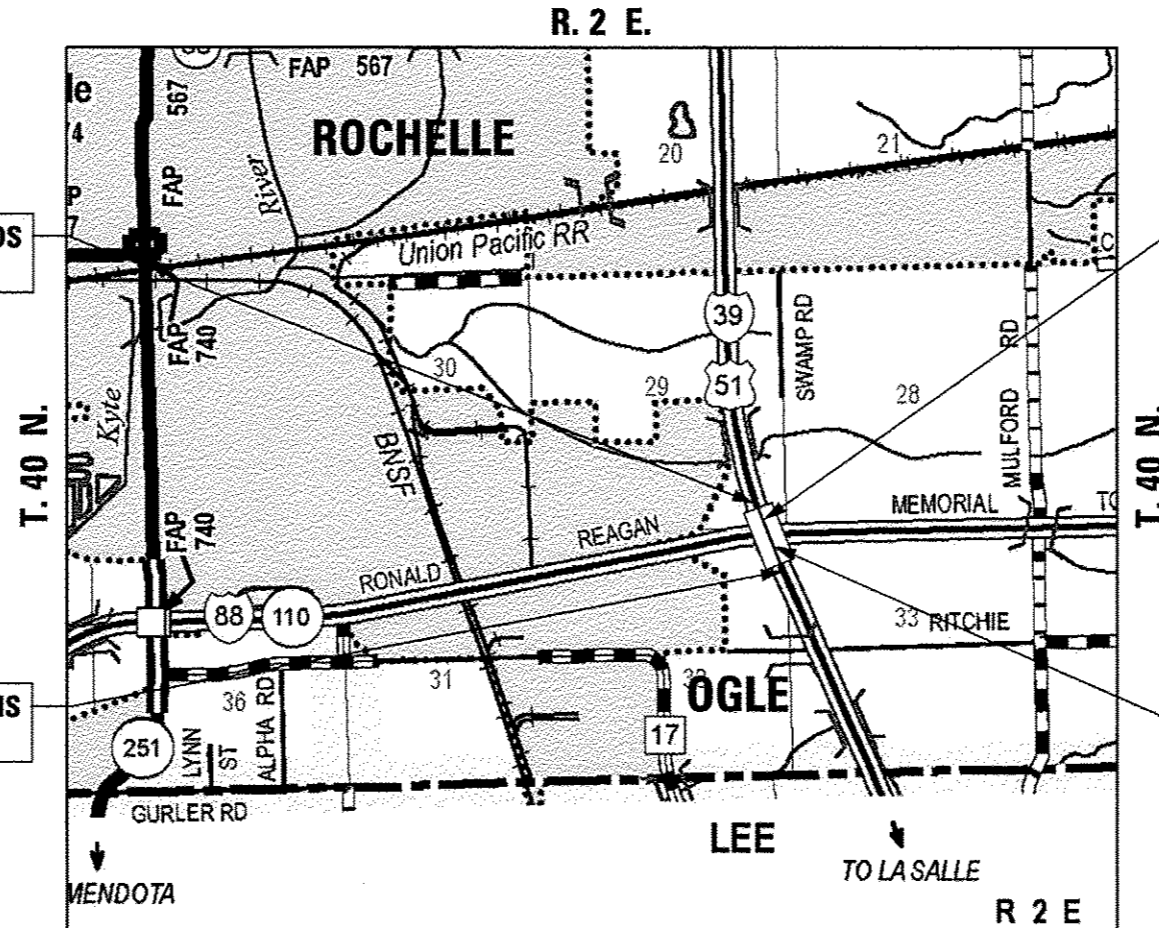
**PROPOSED  
 HIGHWAY PLANS**

FAI 39 (I-39) (RONALD REAGAN MEMORIAL EXPRESSWAY)  
 S.N. 071-0062 & S.N. 071-0063 OVER I-88  
 BRIDGE REHABILITATION  
 SECTION D2 DECK REPAIR 2013-1  
 OGLE COUNTY  
 C-92-175-12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	1
FED. ROAD DIST. NO. 2	ILLINOIS	CONTRACT NO. 64H73		

\*32 \*7=39

D-92-047-12

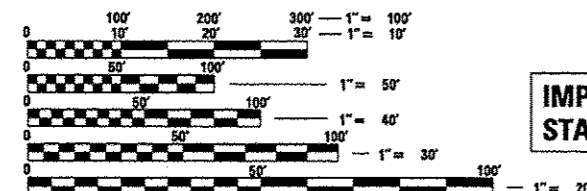


IMPROVEMENT ENDS  
 STA. 1429 + 20

END PROJECT  
 STA. 1410 + 26.25

IMPROVEMENT BEGINS  
 STA. 1386 + 90

BEGIN PROJECT  
 STA. 1407 + 48.05



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  
 OR 811

PROJECT MANAGER : MAHMOUD ETEMADI (815) 284-5393  
 DESIGN  
 PROJECT MANAGER : GEORGE F. LIPTACK (312) 372-2023  
 CONTRACT NO. 64H73

DEMENT TOWNSHIP (SECTION 29)  
 GROSS LENGTH OF PROJECT = 278.2 LIN. FT. = 0.053 MILES  
 NET LENGTH OF PROJECT = 278.2 LIN. FT. = 0.053 MILES



BIRINDER S. SACHDEVA, P.E.  
 EXPIRES: 11-30-2013

CHRISTIAN-ROGE & ASSOCIATES, INC.  
 ENGINEERS - PLANNERS - SURVEYORS  
 211 W. WACKER DRIVE CHICAGO, IL 60606  
 TELEPHONE: 312-372-2023

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

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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
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
835011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24' (800 MM) FROM PAVEMENT EDGE
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-08	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, 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
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**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.

REFLECTOR MARKERS TYPE B SHALL BE INSTALLED ON THE TOP OF BRIDGE PARAPET WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 835011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE.

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.

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS. 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 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 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. 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.

DATE	
BY	
STARTED	
SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	

DATE	
BY	
STARTED	
SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	

FILE NAME: 0264H73-shr-index.dgn  
 PLOT DATE: 4/20/2012  
 PLOT SCALE: 100.0000 ' / IN.

**CR** CHRISTIAN-ROGE & ASSOCIATES, INC.  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60604  
 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 -	AUGUST 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 DECK REPAIR 2013-1	OGLE	32	2
CONTRACT NO. 64H73				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITY	CONSTRUCTION CODE		
CODE NO.	ITEM	UNIT		0014 BRIDGE REPAIR 100% STATE		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	229	229		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	2044	2044		
50102400	CONCRETE REMOVAL	CU YD	11,1	11,1		
50157300	PROTECTIVE SHIELD	SQ YD	1132	1132		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11,1	11,1		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1775	1775		
50800515	BAR SPLICERS	EACH	24	24		
52000110	PERFORMED JOINT STRIP SEAL	FOOT	215,5	215,5		
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2847	2847		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MD	4	4		
67100100	MOBILIZATION	L SUM	1	1		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	8	8		

\* SPECIALTY ITEM

FILE NAME: I:\2012\1-39 OVER I-88\1-39 OVER I-88.dgn  
 PLOT DATE: 1/16/2012  
 PLOT SCALE: 1/8" = 1' IN.

**CHRISTIAN-ROSE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312) 972-2023 FAX: (312) 372-5274

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 I-39 OVER I-88

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

S.I. I. H.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99	D2 DECK REPAIR 2013-1	OGLE	32	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H73	

Rev.

DATE	
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NO. 1	
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NO. 17	
NO. 18	
NO. 19	
NO. 20	

DATE	
BY	
REVISION	
NO. 1	
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NO. 17	
NO. 18	
NO. 19	
NO. 20	

SUMMARY OF QUANTITIES			CONSTRUCTION CODE			
CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	0014 BRIDGE REPAIR 100% STATE		
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3068	3068		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18193	18193		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6064	6064		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1275	1275		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1225	1225		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5375	5375		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1688	1688		
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2310	2310		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	264	264		
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	6	6		

\* SPECIALTY ITEM

FILE NAME: D264H73-1-1-0002.dgn  
 PLOT DATE: 6/6/2012  
 PLOT SCALE: 1/8"=1'-0"

**CHRISTIAN ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 271 WEST WALKER DRIVE  
 CHICAGO, ILLINOIS 60646  
 PHONE: (312) 372-2021 FAX: (312) 372-6274

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

REVISED -  
 REVISED -  
 REVISED -  
 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.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H73	

DATE	
BY	
SURVEYED	
TEMPERATURE	
TEMPERATURE	
AREAS	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
TEMPERATURE	
TEMPERATURE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

SUMMARY OF QUANTITIES			CONSTRUCTION CODE			
CODE NO.	ITEM	UNIT	URBAN	0014 BRIDGE REPAIR 100% STATE		
			TOTAL QUANTITY			
78100300	REPLACEMENT REFLECTOR	EACH	26	26		
78200520	BARRIER WALL MARKERS, TYPE B	EACH	44	44		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	3388	3388		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6		
Z0012754	STRUCTURAL REPAIR OF CONCRETE EQUAL TO OR LESS THAN 5 INCHES	SQ FT	621	621		
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	2.8	2.8		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	4.3	4.3		
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	7.1	7.1		
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
Z0053750	RETROFIT CONCRETE PARAPET	FOOT	1149	1149		
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	1	1		
X5810015	BRIDGE DECK CONCRETE SEALER	SQ YD	31,482	31,482		
X0323818	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	510	510		
X0024967	CONCRETE METH ACRYLATE SEALER	SQ YD	3498	3498		
JS701010	MAINTENANCE OF TRAFFIC	L SUM	1	1		

\* SPECIALTY ITEM

FILE NAME: D264H73-ht-50003.dgn  
 PLOT DATE: 9/21/2012  
 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 - G.F.L./K.R.K.  
 DRAWN - K.R.K.  
 CHECKED - E.J.M.  
 DATE - AUGUST 2012

REVISED -  
 REVISED -  
 REVISED -  
 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	D2 DECK REPAIR 2013-1	OGLE	32	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H73	

Rev.

# SCHEDULE OF QUANTITIES

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50					40603310
STAGE			SOYD	INCHES	TONS
<b>Stage 1</b>					
NB	1401+40.00	1402+35.00	varies	146.7	2
SB	1412+70.00	1417+70.00	varies	222.2	2
<b>Stage 2</b>					
SB	1402+30.00	1407+61.20	6	354.1	2
SB	1410+38.80	1414+70.00	6	287.5	2
NB	1396+40.00	1407+34.00	6	729.3	2
NB	1410+14.20	1414+70.00	6	303.9	2
<b>TOTAL</b>					<b>228.9</b>

HOT-MIX ASPHALT SURFACE REMOVAL, 2"					44000157
STAGE			SOYD		
<b>Stage 1</b>					
NB	1401+40.00	1402+35.00	varies	146.7	
SB	1412+70.00	1417+70.00	varies	222.2	
<b>Stage 2</b>					
SB	1402+30.00	1407+61.20	6	354.1	
SB	1410+38.80	1414+70.00	6	287.5	
NB	1396+40.00	1407+34.00	6	729.3	
NB	1410+14.20	1414+70.00	6	303.9	
<b>TOTAL</b>					<b>2043.7</b>

SHOULDER RUMBLE STRIPS, 16 INCH					64200116
STAGE			FOOT		
<b>Stage 1</b>					
NB	1396+40.00	1402+75.00		635.0	
SB	1412+70.00	1414+70.00		200.0	
<b>Stage 2</b>					
SB	1402+30.00	1407+61.20		531.2	
SB	1410+38.80	1414+70.00		431.2	
NB	1401+40.00	1407+34.00		594.0	
NB	1410+14.20	1414+70.00		455.8	
<b>TOTAL</b>					<b>2847.2</b>

SHORT TERM PAVEMENT MARKING					70300100
STAGE			FOOT		SQ.FT
<b>NORTHBOUND</b>					
4" YELLOW	1396+40.00	1414+70.00	1,830		610.0
4" WHITE	1401+00.00	1413+90.00	1,290		430.0
6" SKIP DASH	1386+90.00	1415+20.00	707.5		235.8
6" SKIP DASH	1406+40.00	1412+70.00	157.5		52.5
8" WHITE	1401+45.00	1406+30.00	970		323.3
8" WHITE	1412+75.00	1415+20.00	370		123.3
<b>SOUTHBOUND</b>					
4" YELLOW	1402+30.00	1414+70.00	1,240		413.3
4" WHITE	1404+00.00	1413+00.00	900		300.0
6" SKIP DASH	1402+80.00	1429+20.00	660.0		220.0
6" SKIP DASH	1405+00.00	1411+40.00	160.0		53.3
8" WHITE	1401+80.00	1405+10.00	470		155.7
8" WHITE	1411+45.00	1413+70.00	450		150.0
<b>TOTAL</b>					<b>3068.2</b>

WORK ZONE PAVEMENT MARKING REMOVAL					70301000
TEMPORARY PAVEMENT MARKING - LINE 4"					70300220
STAGE			FOOT		SQ.FT
<b>STAGE I</b>					
<b>SOUTHBOUND</b>					
	1401+95.00	1429+70.00	2,725		908.3
	1401+95.00	1404+75.00		280	93.3
	1403+69.00	1404+75.00		106	35.3
	1412+70.00	1414+70.00		200	66.7
	1412+70.00	1413+70.00		100	33.3
<b>NORTH BOUND</b>					
	1386+90.00	1416+05.00	2,915		971.7
	1401+40.00	1407+00.00		560	186.7
	1401+00.00	1407+00.00		600	200.0
(CHEVRONS)	1401+53.00	1404+85.00		117	39.0
	1401+00.00	1407+00.00		600	200.0
	1413+40.00	1415+05.00		165	55.0
	1413+40.00	1414+22.00		84	28.0
<b>STAGE II</b>					
<b>SOUTHBOUND</b>					
	1401+80.00	1404+40.00		260	86.7
	1402+30.00	1414+70.00	1,240		413.3
	1403+78.00	1404+40.00		75	25.0
	1404+00.00	1429+20.00		2520	840.0
<b>NORTH BOUND</b>					
	1386+90.00	1402+50.00		1,560	520.0
	1396+40.00	1414+70.00	1,830		610.0
	1401+50.00	1402+50.00		100	33.3
	1401+50.00	1413+80.00		1,235	411.7
	1413+10.00	1414+21.00		111	37.0
	1413+10.00	1415+70.00		210	70.0
<b>STAGE II (AT EXIT RAMP TO SB I-39)</b>					
	4157+00.00	4163+00.00		600	200.0
<b>TOTAL</b>					<b>18,193</b>
<b>TOTAL</b>					<b>6064.4</b>

TEMPORARY CONCRETE BARRIER					70400100
STAGE			FOOT		
<b>STAGE I</b>					
	1404+98.75	1411+34.68		625	
	1406+45.63	1413+00.54		650	
<b>TOTAL</b>					<b>1275</b>

RELOCATE TEMPORARY CONCRETE BARRIER					70400200
STAGE			FOOT		
<b>STAGE 2</b>					
	1405+49.44	1411+34.31		575	
	1406+45.29	1413+00.41		650	
<b>TOTAL</b>					<b>1225</b>

BARRIER WALL MARKERS, TYPE B					78200520
STAGE			25' SPACING		EACH
<b>NORTH BOUND</b>					
	1407+48.00	1410+27.00	/25		11
	1407+48.00	1410+27.00			11
<b>SOUTH BOUND</b>					
	1407+48.00	1410+27.00			11
	1407+48.00	1410+27.00			11
<b>TOTAL</b>					<b>44</b>

RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)					78100105
STAGE			LANES		EACH
<b>STAGE I</b>					
NB	1407+48.05	1410+26.25	1		3
SB	1407+48.05	1410+26.25	1		3
<b>TOTAL</b>					<b>6</b>

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL					78300200
STAGE			LANES		EACH
<b>STAGE I</b>					
NB	1407+48.05	1410+26.25	1		3
SB	1407+48.05	1410+26.25	1		3
<b>TOTAL</b>					<b>6</b>

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3					20030250
STAGE					EACH
<b>STAGE I</b>					
	1412+99.60				1
	1404+75.40				1
<b>TOTAL</b>					<b>2</b>

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3					20030350
STAGE					EACH
<b>STAGE II</b>					
	1412+99.60				1
	1404+75.40				1
<b>TOTAL</b>					<b>2</b>

THERMOPLASTIC PAVEMENT MARKING - LINE 4"					78000200
STAGE			FOOT		FOOT
<b>NORTHBOUND</b>					
YELLOW	1396+40.00	1414+70.00		1,830	
YELLOW	1401+10.00	1401+45.00		35	
WHITE	1401+10.00	1413+90.00		1,280	
<b>SOUTHBOUND</b>					
YELLOW	1402+30.00	1414+70.00		1,240	
WHITE	1403+80.00	1413+70.00		990	
<b>TOTAL</b>					<b>5375</b>

THERMOPLASTIC PAVEMENT MARKING - LINE 5"					78000400
STAGE			FOOT		FOOT
<b>NORTHBOUND</b>					
SKIP DASH	1386+90.00	1415+20.00		707.5	
SKIP DASH	1406+30.00	1412+75.00		161.3	
<b>SOUTHBOUND</b>					
SKIP DASH	1402+80.00	1429+20.00		660.0	
SKIP DASH	1405+10.00	1411+45.00		158.8	
<b>TOTAL</b>					<b>1687.6</b>

THERMOPLASTIC PAVEMENT MARKING - LINE 12"					78000600
STAGE			FOOT		FOOT
<b>NORTHBOUND</b>					
WHITE	1401+45.00	1406+30.00		62	
WHITE	1412+75.00	1415+20.00		80	
<b>SOUTHBOUND</b>					
WHITE	1401+80.00	1405+10.00		78	
WHITE	1411+45.00	1413+70.00		44	
<b>TOTAL</b>					<b>264</b>

THERMOPLASTIC PAVEMENT MARKING - LINE 8"					78000500
STAGE			FOOT		FOOT
<b>NORTHBOUND</b>					
WHITE	1401+45.00	1406+30.00		485	
WHITE	1401+45.00	1406+30.00		485	
WHITE	1412+75.00	1415+20.00		245	
WHITE	1412+75.00	1414+00.00		125	
<b>SOUTHBOUND</b>					
WHITE	1401+80.00	1405+10.00		330	
WHITE	1403+75.00	1405+10.00		140	
WHITE	1411+45.00	1413+70.00		225	
WHITE	1411+45.00	1413+70.00		225	
WHITE	1413+70.00	1414+20.00		50	
<b>TOTAL</b>					<b>2310</b>

REPLACEMENT REFLECTOR					78100300
STAGE			EACH		EACH
<b>NORTHBOUND</b>					
SKIP-DASH	1386+90.00	1396+90.00		13	
<b>SOUTHBOUND</b>					
SKIP-DASH	1419+20.00	1429+20.00		13	
<b>TOTAL</b>					<b>26</b>

PAVEMENT MARKING REMOVAL					78300100
STAGE			FOOT		SQ.FT
<b>STAGE I</b>					
<b>NORTHBOUND</b>					
4" YELLOW	1401+00.00	1401+50.00		50	16.7
4" WHITE	1401+00.00	1407+00.00		600	200.0
6" SKIP DASH	1386+90.00	1407+30.00		510	255.0
6" SKIP DASH	1406+30.00	1412+80.00		163	81.3
6" SKIP DASH	1410+10.00	1415+05.00		124	61.9
8" WHITE	1401+40.00	1407+30.00		590	393.3
8" WHITE	1401+40.00	1407+30.00		590	393.3
8" WHITE	1412+80.00	1415+05.00		290	193.3
<b>SOUTHBOUND</b>					
4" WHITE	1413+70.00	1414+70.00		100	33.3
6" SKIP DASH	1402+95.00	1407+60.00		116	58.1
6" SKIP DASH	1405+20.00	1411+40.00		155	77.5
6" SKIP DASH	1409+90.00	1429+20.00		483	241.3
8" WHITE	1402+95.00	1405+10.00		250	166.7
8" WHITE	1411+40.00	1413+70.00		230	153.3
8" WHITE	1411+40.00	1413+70.00		230	153.3
<b>STAGE II</b>					
<b>NORTHBOUND</b>					
4" YELLOW	1396+40.00	1409+60.00	1,320		440.0
4" YELLOW	1410+10.00	1414+70.00	460		153.3
<b>SOUTHBOUND</b>					
4" YELLOW	1402+30.00	1407+30.00	500		166.7
4" YELLOW	1410+20.00	1414+70.00	450		150.0
<b>TOTAL</b>					<b>3388.3</b>

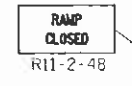
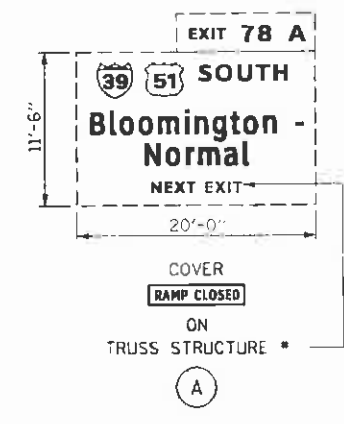
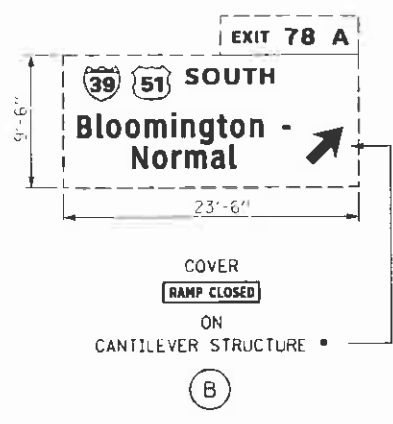
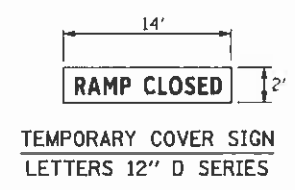
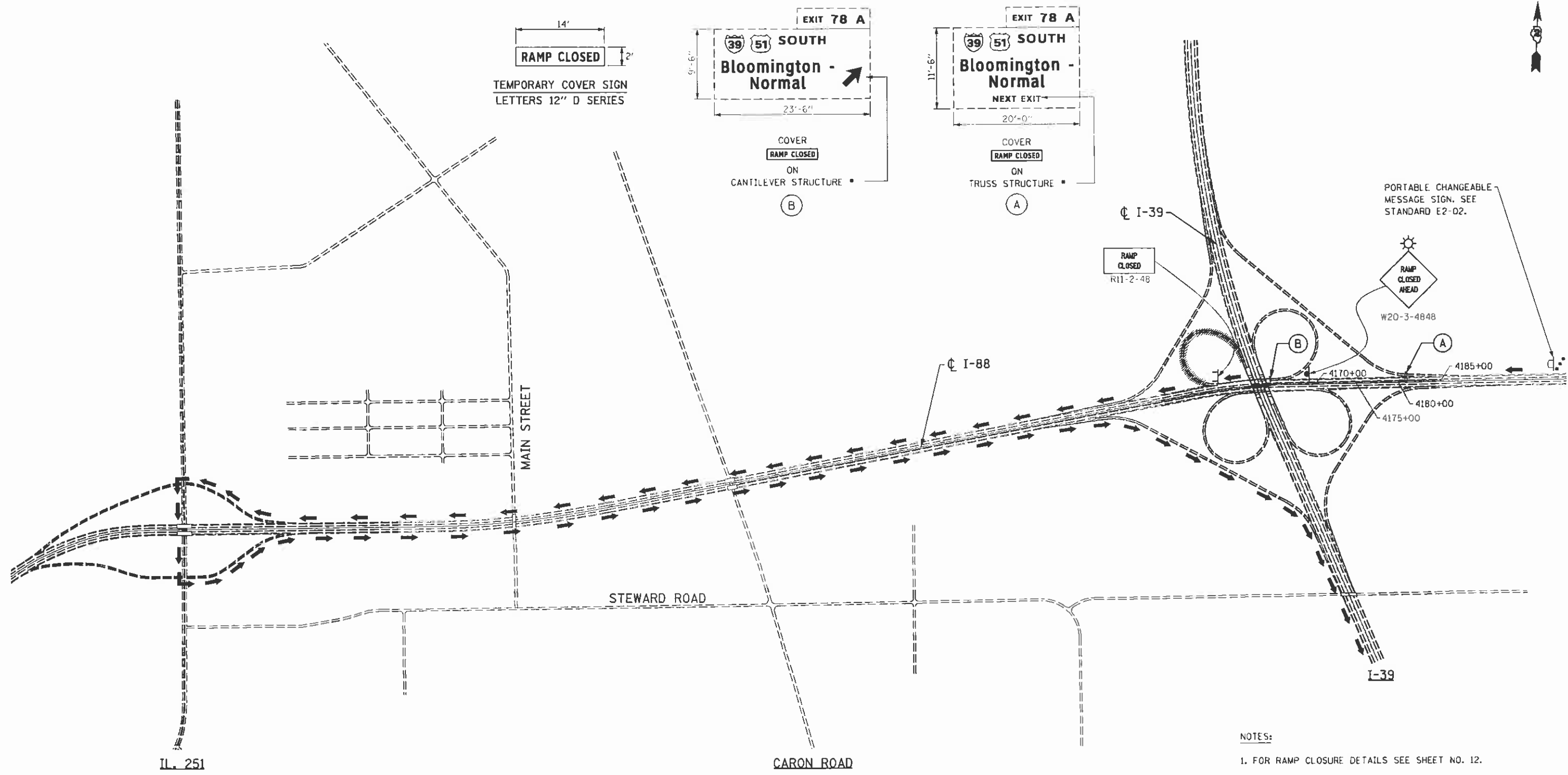
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 BY: \_\_\_\_\_  
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 TITLE: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 SHEET NO.: \_\_\_\_\_  
 TOTAL SHEETS: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 SHEET NO.: \_\_\_\_\_  
 TOTAL SHEETS: \_\_\_\_\_

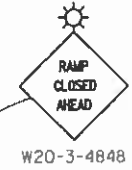


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PLOTTED	
TEMPLATE	
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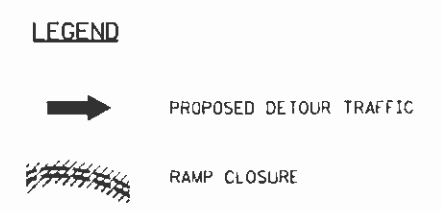
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BY	
SUPERVISED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



PORTABLE CHANGEABLE MESSAGE SIGN. SEE STANDARD E2-02.



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



FILE NAME = sht-de tour stage2.dgn  
PLOT DATE = 8/7/2012  
PLOT SCALE = 688.8000' / IN.

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

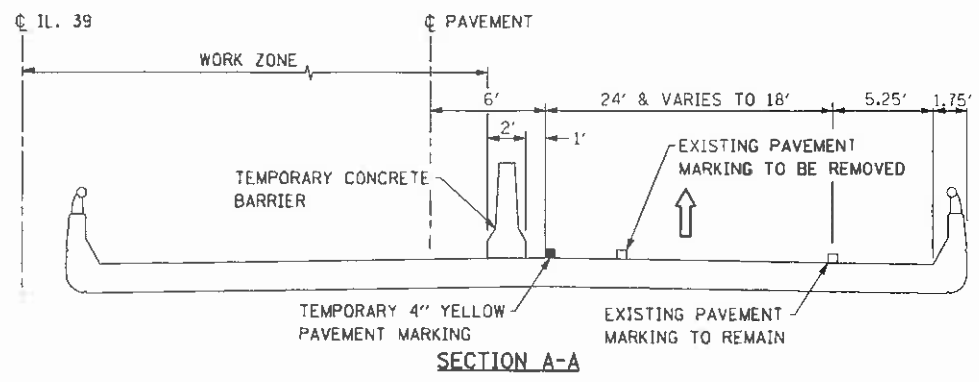
SCALE: SHEET NO. OF SHEETS STA. TO STA.

**DETOUR PLAN  
I-39 OVER I-88  
RAMP CLOSURE - STAGE II**

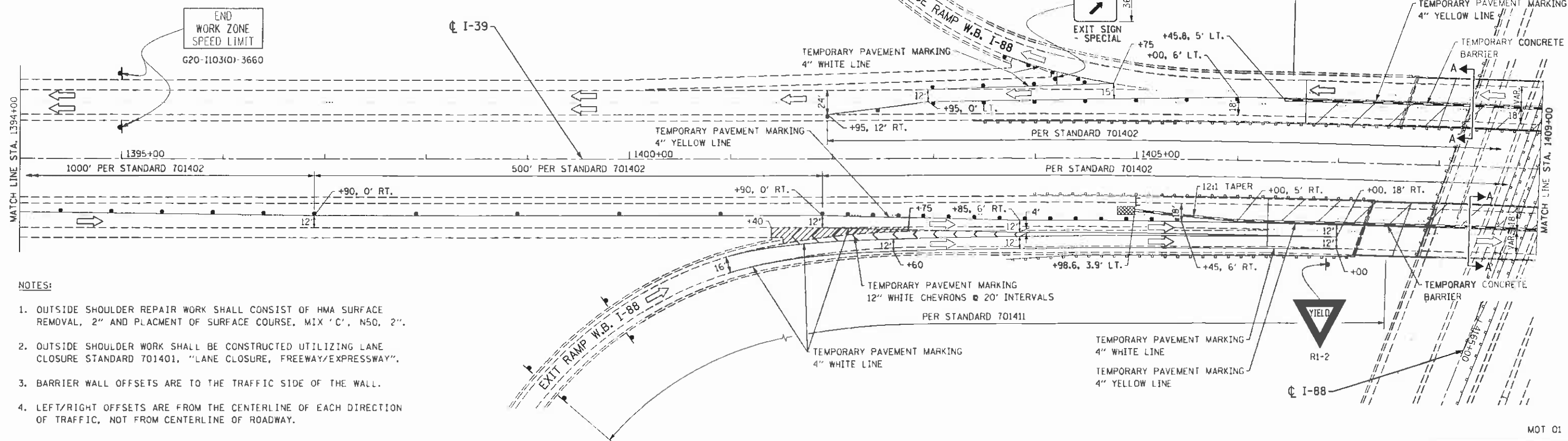
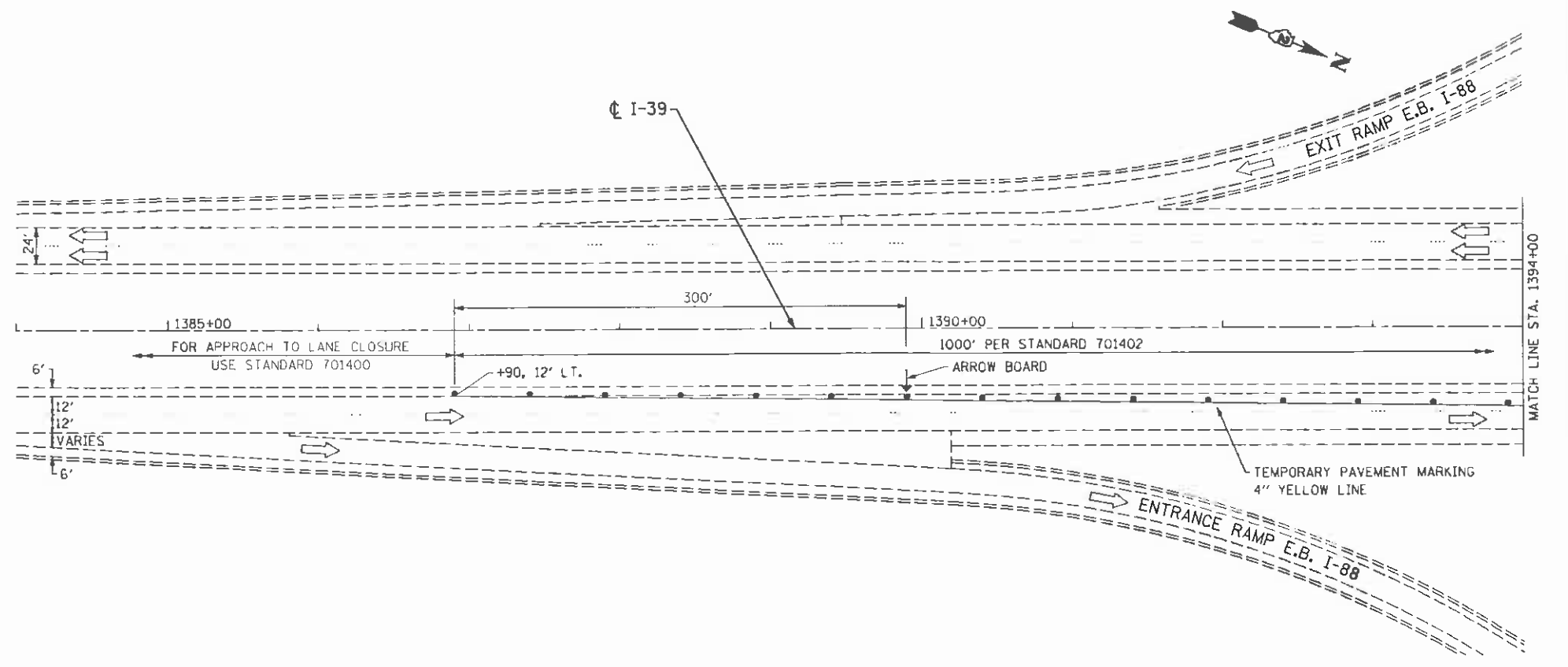
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	02 DECK REPAIR 2013-1	OGLE	32	7
CONTRACT NO. 64H73				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
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BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



- 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
  - TEMPORARY SIGN WITH MESSAGE
  - TYPE III BARRICADES



- NOTES:**
1. OUTSIDE SHOULDER REPAIR WORK SHALL CONSIST OF HMA SURFACE REMOVAL, 2" AND PLACEMENT OF SURFACE COURSE, MIX 'C', N50, 2".
  2. OUTSIDE SHOULDER WORK SHALL BE CONSTRUCTED UTILIZING LANE CLOSURE STANDARD 701401, "LANE CLOSURE, FREEWAY/EXPRESSWAY".
  3. BARRIER WALL OFFSETS ARE TO THE TRAFFIC SIDE OF THE WALL.
  4. LEFT/RIGHT OFFSETS ARE FROM THE CENTERLINE OF EACH DIRECTION OF TRAFFIC, NOT FROM CENTERLINE OF ROADWAY.

FILE NAME - wht-stg01.dgn  
 PLOT DATE - 8/7/2012  
 PLOT SCALE - 50.0000 / 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 -	AUGUST 2012	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION**  
**I-39 OVER I-88**  
**STAGE I**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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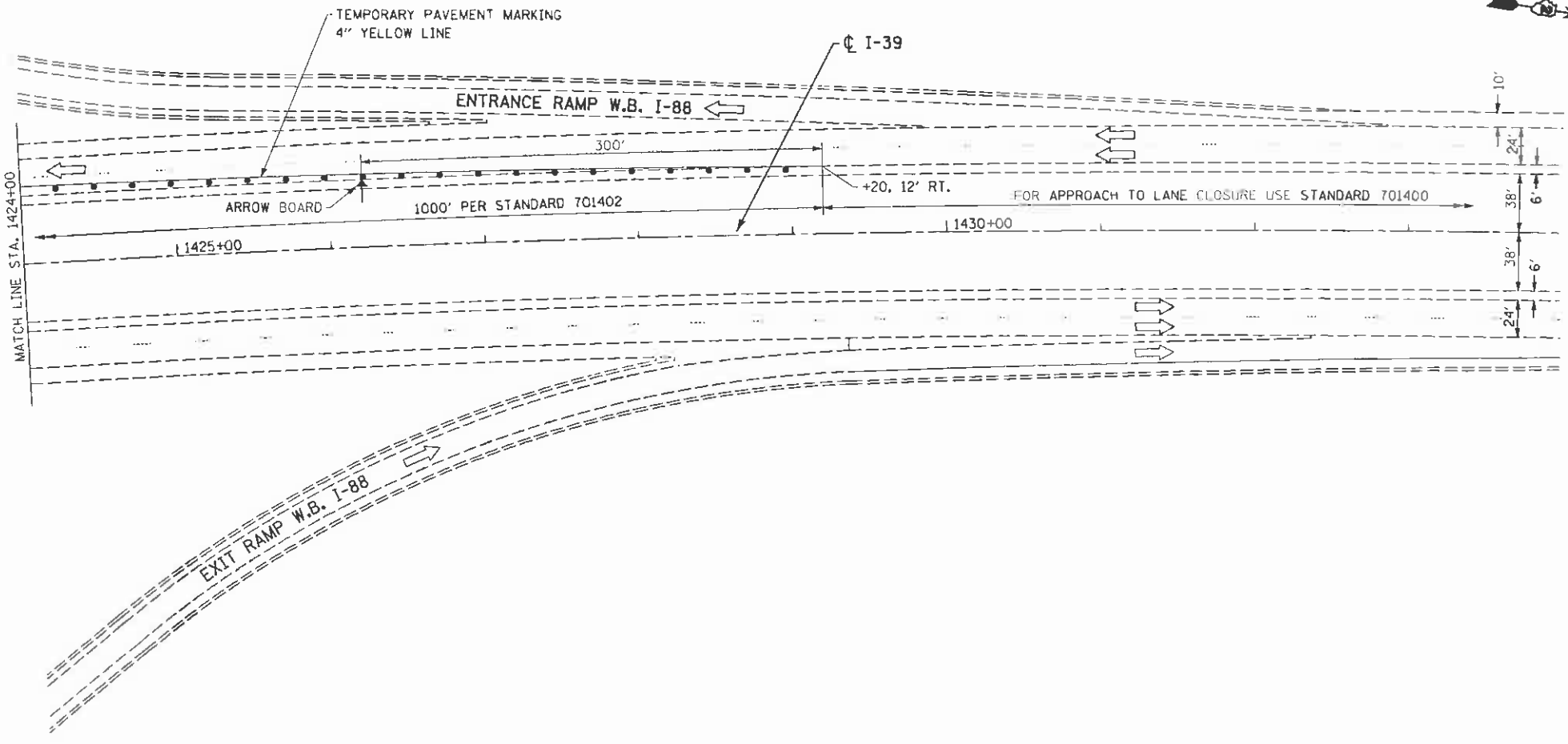
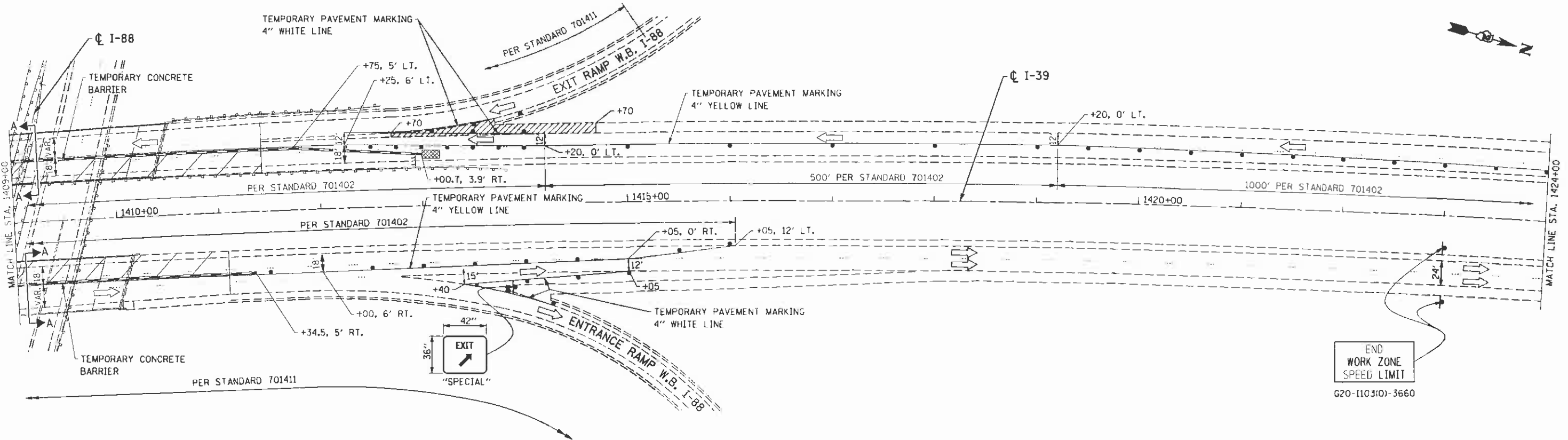
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39 D2 DECK REPAIR 2013-1	OGLE	32	8
CONTRACT NO. 64H73			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

MOT 01



DATE	
BY	
APPROVED	
PROJECT	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
APPROVED	
PROJECT	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



**NOTES:**

1. OUTSIDE SHOULDER REPAIR WORK SHALL CONSIST OF HMA SURFACE REMOVAL, 2" AND PLACEMENT OF SURFACE COURSE, MIX 'C', N50, 2".
2. OUTSIDE SHOULDER WORK SHALL BE CONSTRUCTED UTILIZING LANE CLOSURE STANDARD 701401, "LANE CLOSURE, FREEWAY/EXPRESSWAY".
3. BARRIER WALL OFFSETS ARE TO THE TRAFFIC SIDE OF THE WALL.
4. LEFT/RIGHT OFFSETS ARE FROM THE CENTERLINE OF EACH DIRECTION OF TRAFFIC, NOT FROM CENTERLINE OF ROADWAY.
5. FOR SECTION A-A SEE SHEET NO. 8.

**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
- TEMPORARY SIGN WITH MESSAGE
- TYPE III BARRICADES

MOT 02

FILE NAME : aht-stage1.B2.dgn  
 PLOT DATE : 8/7/2012  
 PLOT SCALE : 58.8000 / IN.

**CR**  
 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 -	AUGUST 2012	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION**  
**I-39 OVER I-88**  
**STAGE I**









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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H73	

**NOTES:**

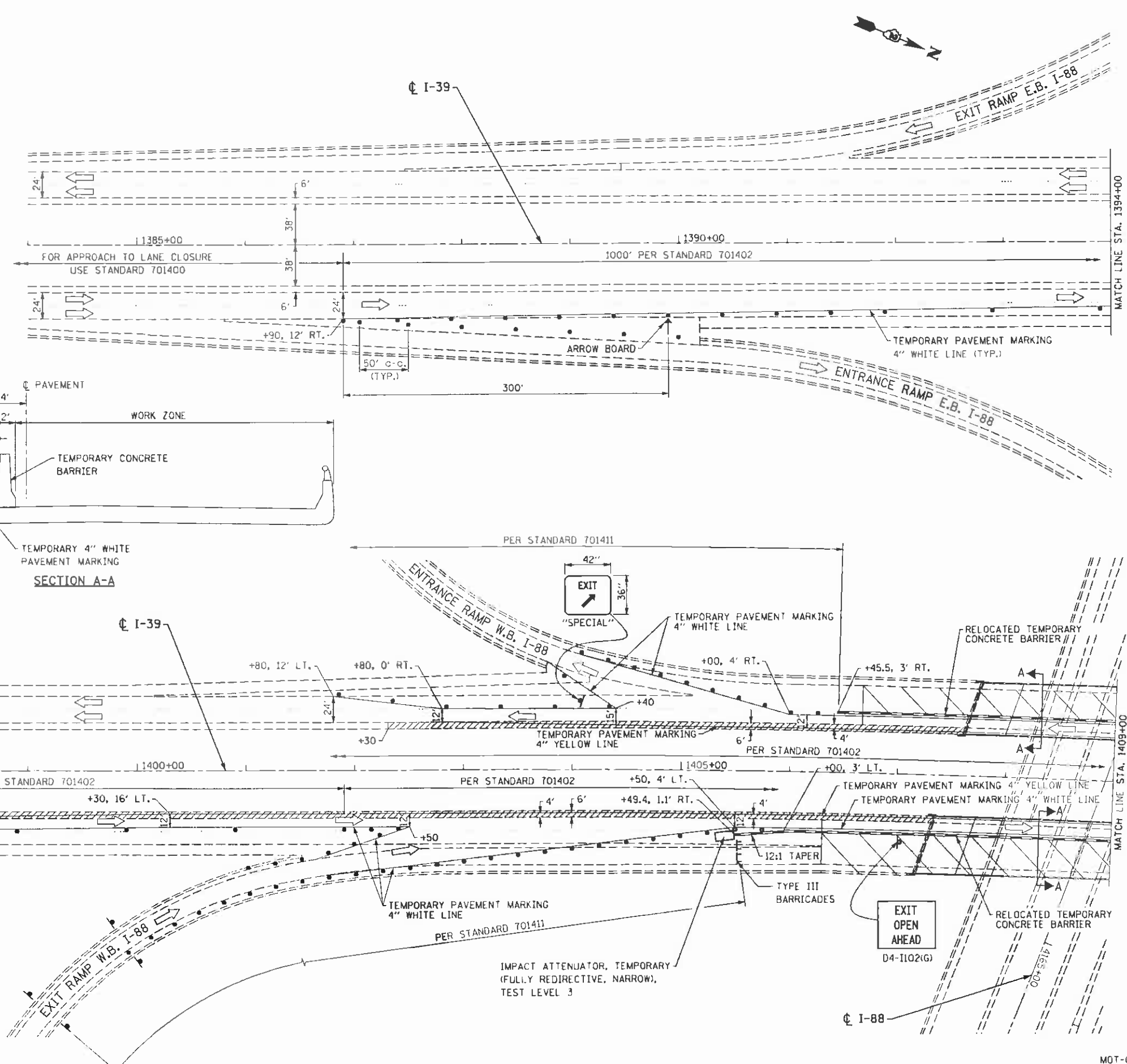
1. MEDIAN SHOULDER REPAIR WORK SHALL CONSIST OF HMA SURFACE REMOVAL 2" AND PLACEMENT OF SURFACE COURSE MIX "C", N50, 2".
2. MEDIAN WORK SHALL BE DONE IN STAGE I AND UTILIZING LANE CLOSURE STANDARD 701401, "LANE CLOSURE, FREEWAY/EXPRESSWAY".
3. BARRIER WALL OFFSETS ARE TO THE TRAFFIC SIDE OF THE WALL.
4. LEFT/RIGHT OFFSETS ARE FROM THE CENTERLINE OF EACH DIRECTION OF TRAFFIC, NOT FROM CENTERLINE OF ROADWAY.

**LEGEND**

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

DATE	
BY	
SLIPPED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
NO.	

DATE	
BY	
SLIPPED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
NO.	



END WORK ZONE SPEED LIMIT  
G20-I103(K)-3660

EXIT OPEN AHEAD  
D4-I102(G)

FILE NAME : aht-stage2.81.dgn  
PLOT DATE : 8/17/2012  
PLOT SCALE : 50.0000' / 1" =

**CHRISTIAN-BOGE & 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 - AUGUST 2012	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

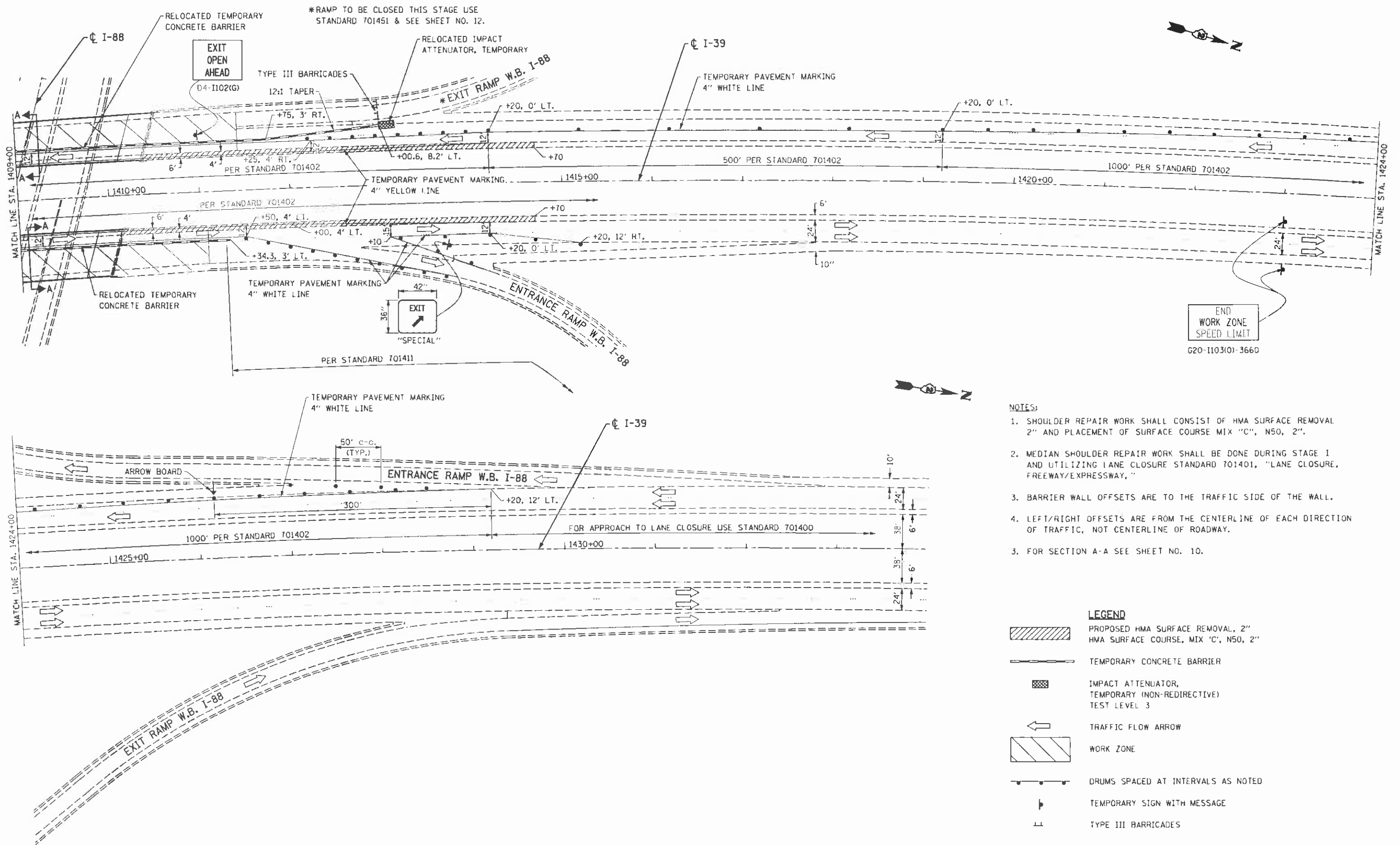
**TRAFFIC CONTROL AND PROTECTION**  
**I-39 OVER I-88**  
**STAGE II**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	10
CONTRACT NO. 64H73				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	









DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**NOTES:**

1. SHOULDER REPAIR WORK SHALL CONSIST OF HMA SURFACE REMOVAL 2" AND PLACEMENT OF SURFACE COURSE MIX "C", N50, 2".
2. MEDIAN SHOULDER REPAIR WORK SHALL BE DONE DURING STAGE I AND UTILIZING LANE CLOSURE STANDARD 701401, "LANE CLOSURE, FREEWAY/EXPRESSWAY."
3. BARRIER WALL OFFSETS ARE TO THE TRAFFIC SIDE OF THE WALL.
4. LEFT/RIGHT OFFSETS ARE FROM THE CENTERLINE OF EACH DIRECTION OF TRAFFIC, NOT CENTERLINE OF ROADWAY.
5. FOR SECTION A-A SEE SHEET NO. 10.

**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
-  TEMPORARY SIGN WITH MESSAGE
-  TYPE III BARRICADES

FILE NAME : wht-stage2.02.dgn  
 PLOT DATE : 8/7/2012  
 PLOT SCALE : 58.8888 / IN.



**CHRISTIAN-RIDGE & 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	AUGUST 2012	REVISED	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION  
 I-39 OVER I-88  
 STAGE II**

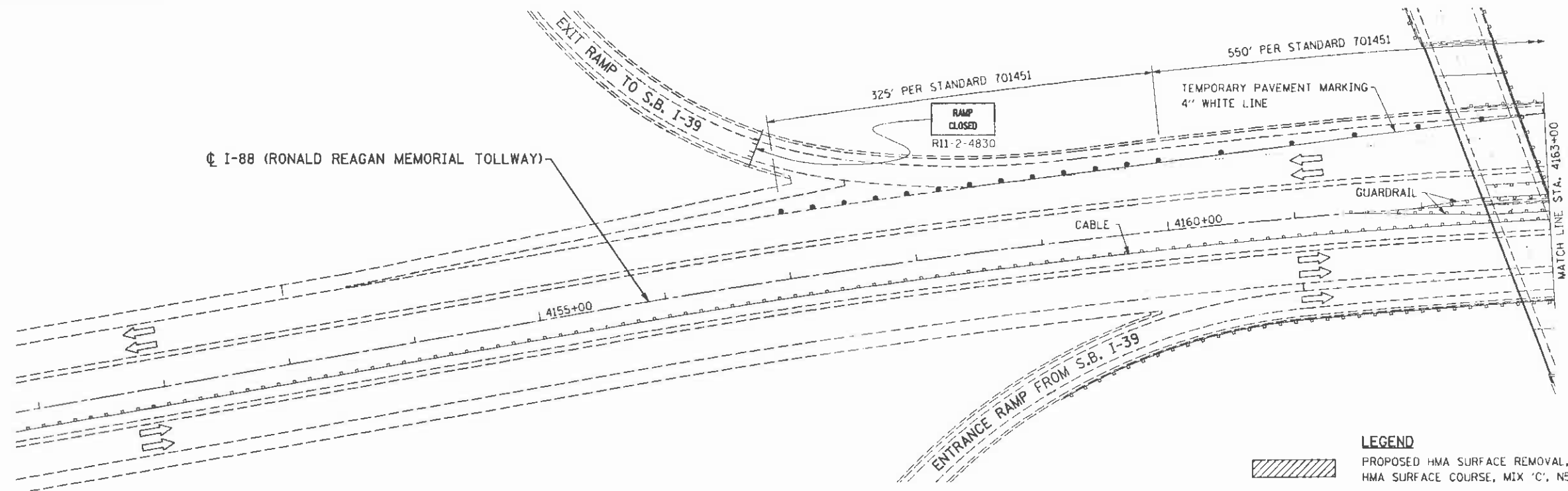
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	11
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 64H73	

MOT-04

DATE	
BY	
SUPERVISED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
NO.	

DATE	
BY	
SUPERVISED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
NO.	



**TRAFFIC CONTROL ON TOLLWAY**

**CONSTRUCTION**

1. FULL DEPTH DECK REPAIR (SHIELDING), ABUTMENT AND PIER CONCRETE REPAIR.

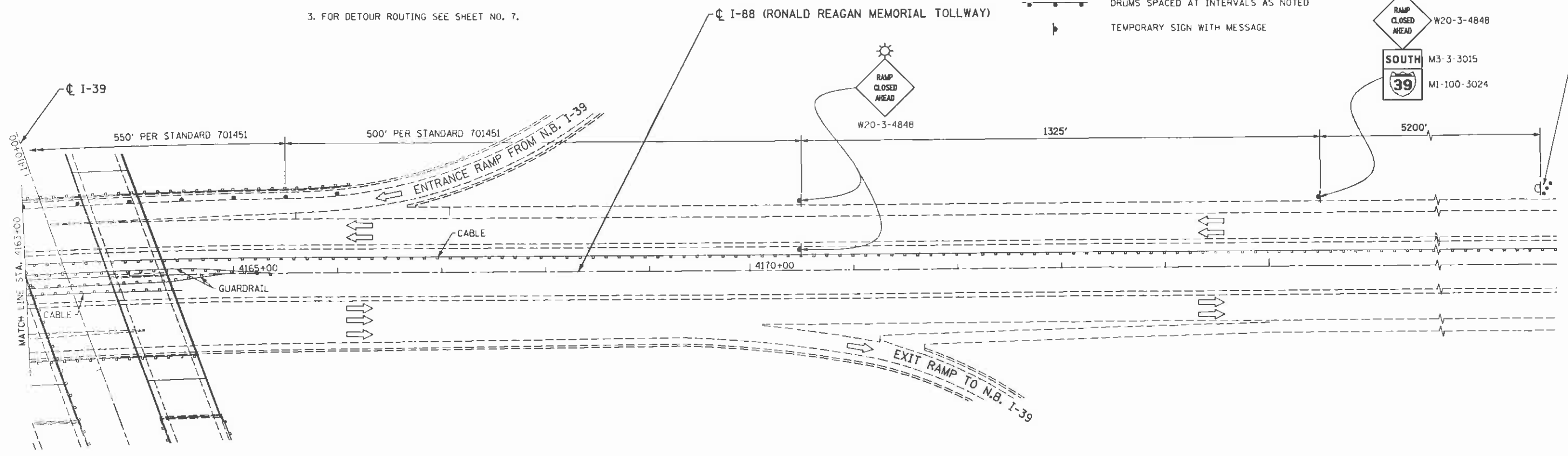
**MAINTENANCE OF TRAFFIC**

1. USE TOLLWAY STANDARDS E-01, E-02, E-03 AND E-05 FOR LANE AND SHOULDER CLOSURES. THE M.O.T. REQUIRED WILL BE PAID FOR IN THE "MAINTENANCE OF TRAFFIC" ITEM.
2. USE IDOT STANDARD 701451 FOR RAMP CLOSURES.
3. FOR DETOUR ROUTING SEE SHEET NO. 7.

**LEGEND**

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

PORTABLE CHANGEABLE MESSAGE SIGN. SEE STANDARD E2-02.



FILE NAME: hrt-stage2.03.dgn  
 PLOT DATE: 8/7/2012  
 PLOT SCALE: 50.0000' / IN.

**CHRISTIAN-BOGE & 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	AUGUST 2012	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION**  
**I-88 UNDER I-39 RAMP CLOSURE**  
**STAGE II**

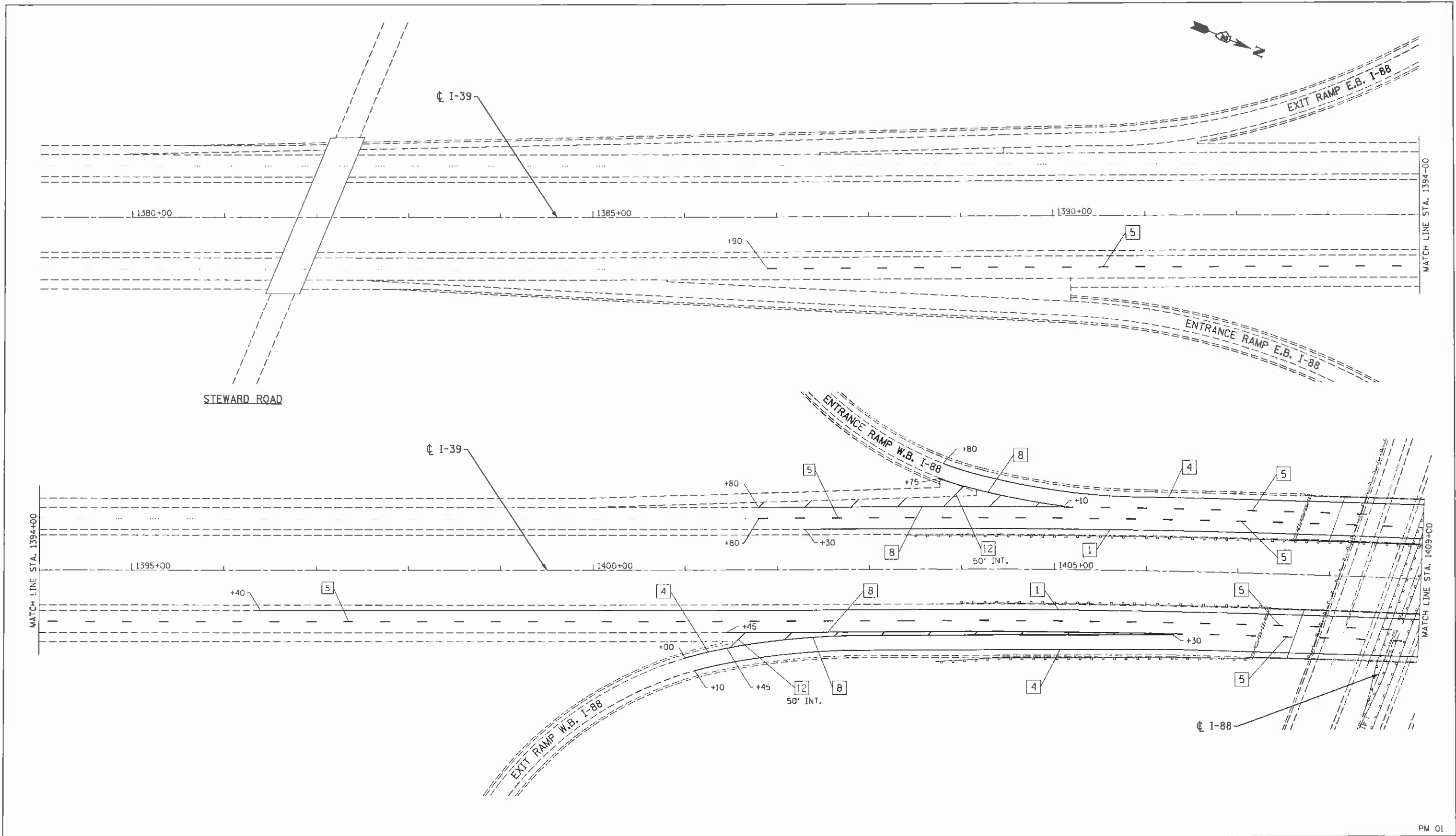
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	12
				CONTRACT NO. 64H73
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

MOT-05

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



PM 01

**LEGEND**

- |   |  |                                    |
|---|--|------------------------------------|
| 1 LINE 4" (YELLOW SOLID LINE)           | 5 LINE 6" (WHITE LANE LINE - 10' DASH, 30' 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)  |

**NOTES:**

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME = sh1-pm01.dgn  
 PLOT DATE = 8/7/2012  
 PLOT SCALE = 50.0000' / 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 - AUGUST 2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

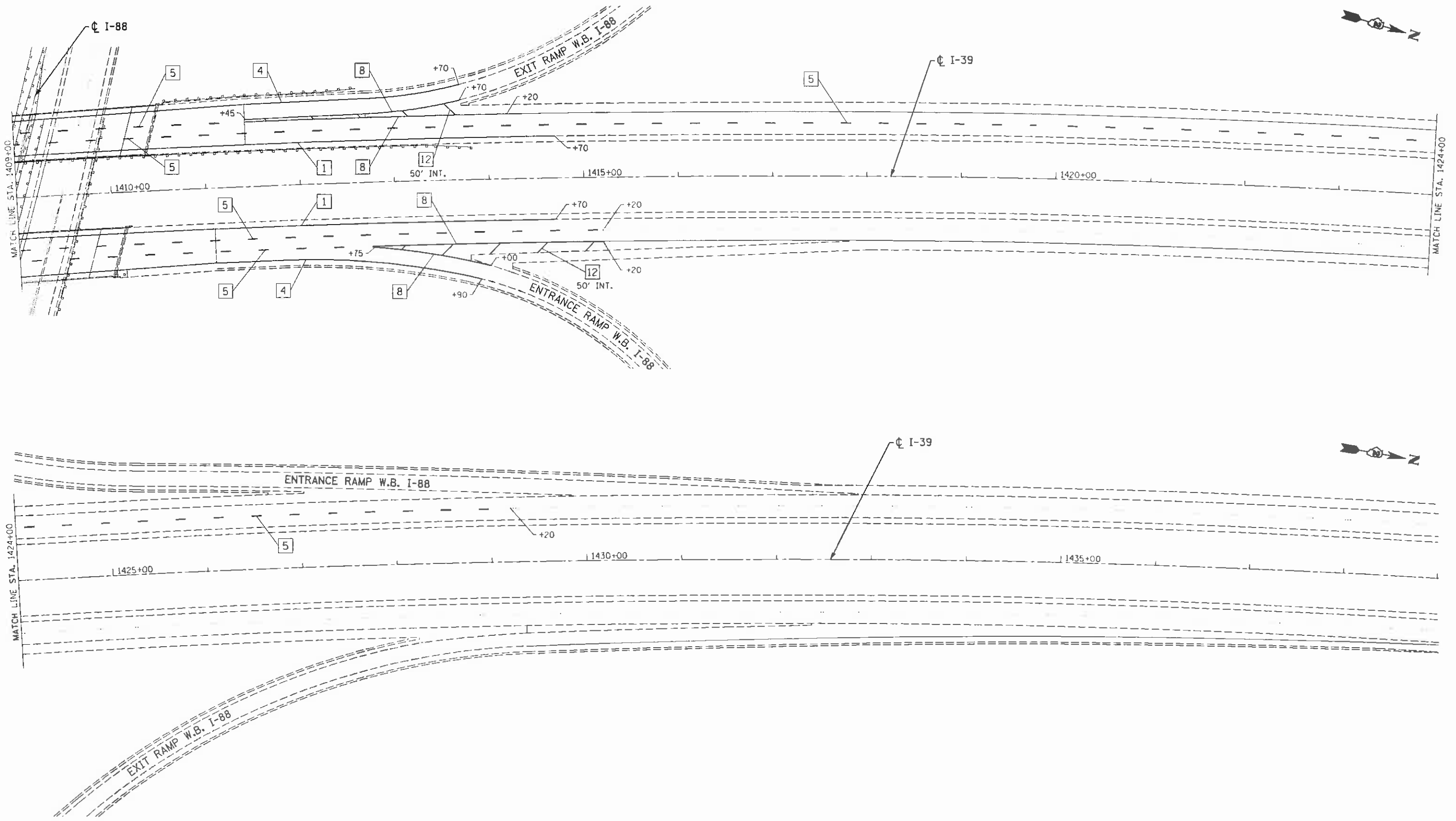
**PAVEMENT MARKING PLAN  
 I-39 OVER I-88**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	13
CONTRACT NO. 64H73				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	



**LEGEND**

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

**NOTES:**

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME - sh1-pm02.dgn  
 PLOT DATE - 8/7/2012  
 PLOT SCALE - 50.0000' / IN.

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

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 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 DECK REPAIR 2013-1	OGLE	32	14
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 64H73	

**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

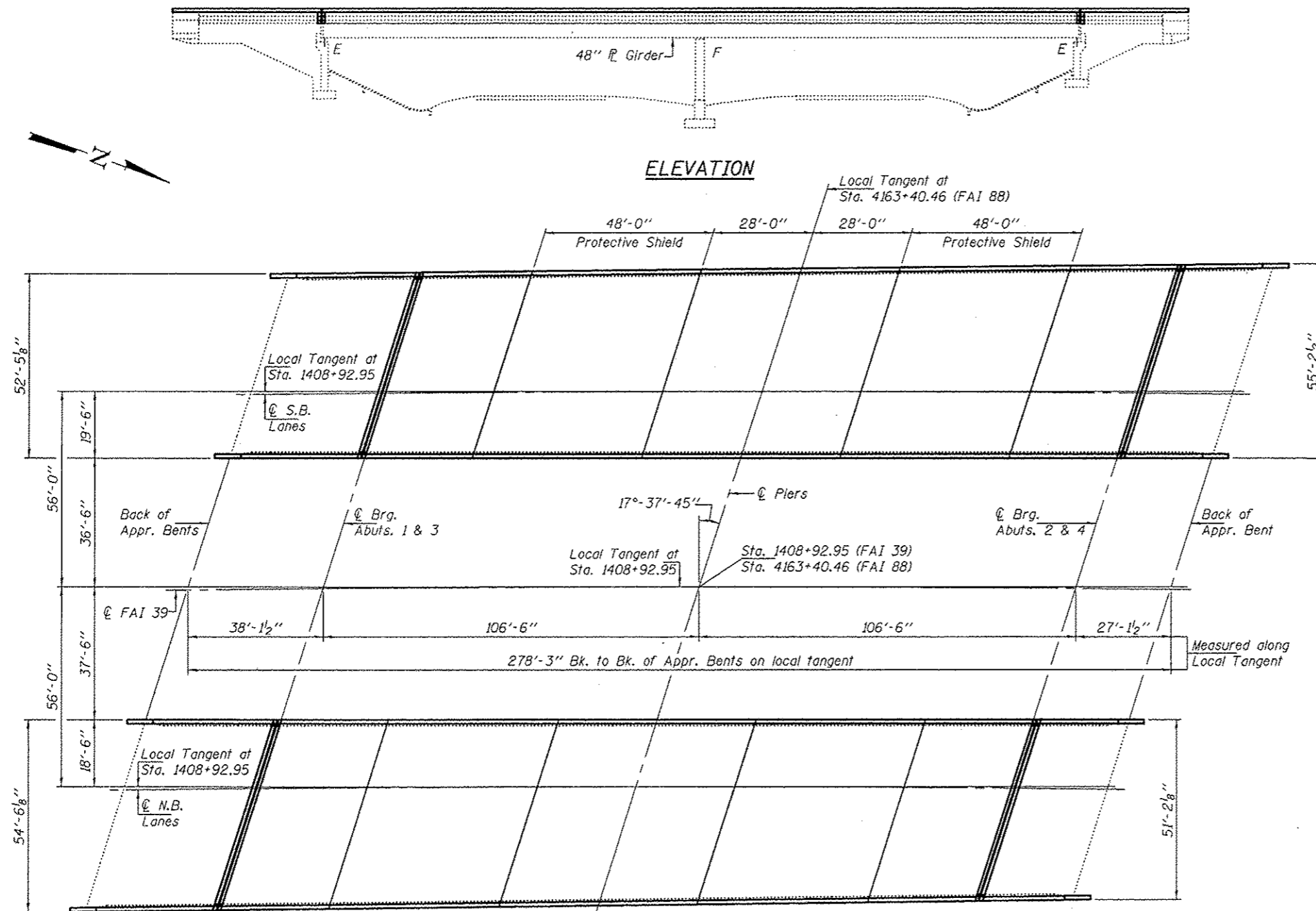
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

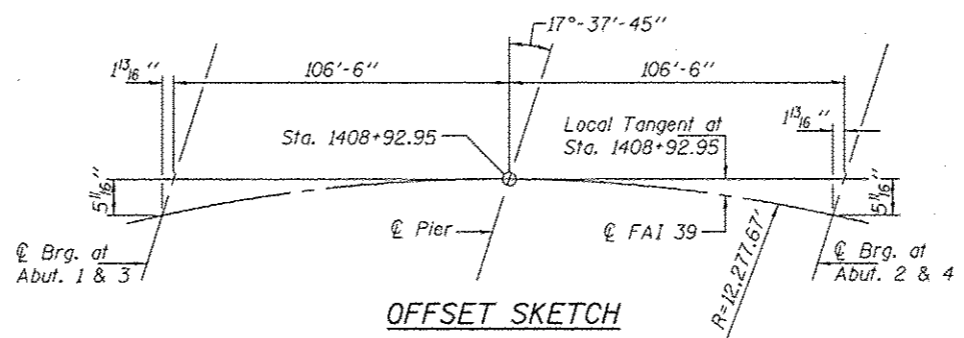


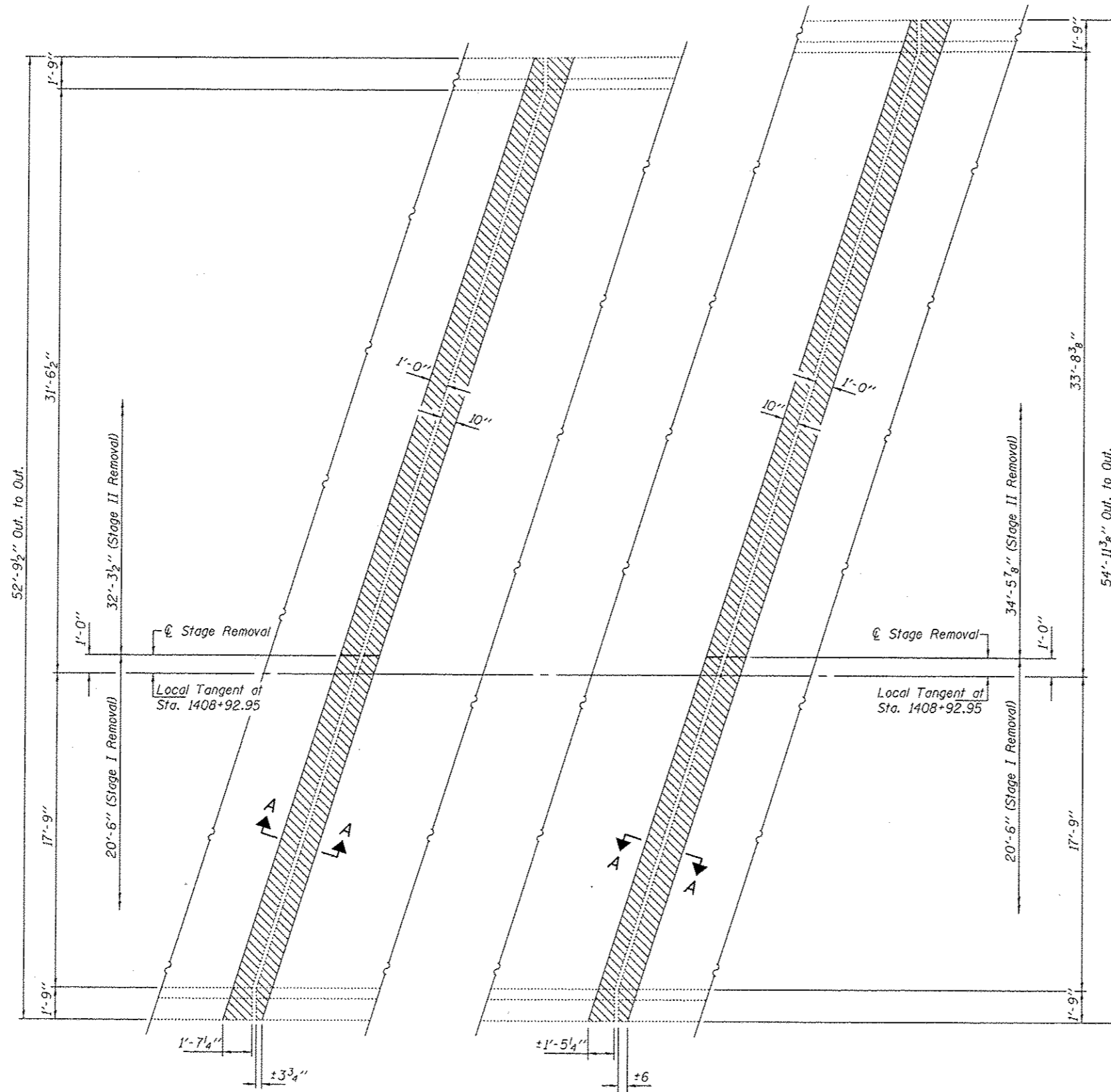
**PROPOSED SCOPE OF WORK**

1. Replace Expansion Joints at Abutments
2. Parapet Retrofit
3. Partial and Full Depth Deck Patching
4. Substructure Repairs
5. Apply Concrete Methacrylate Sealer to Deck and Top & Inside Faces of Parapets.

**TOTAL BILL OF MATERIAL**

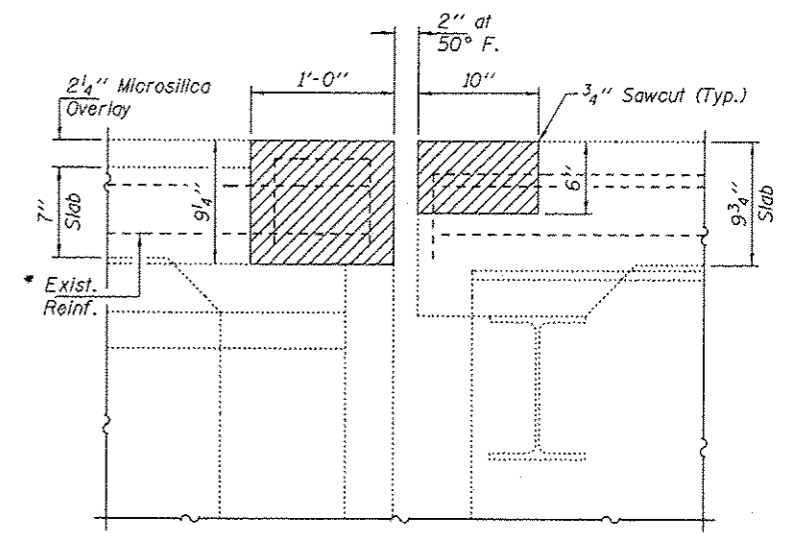
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	11.1
Concrete Superstructure	Cu. Yd.	11.1
Reinforcement Bars, Epoxy Coated	Pound	1775
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	215.5
Retrofit Concrete Parapet	Foot	1149
Structural Repair of Concrete (Depth ≤ 5 inches)	Sq. Ft.	621
Deck Slab Repair (Partial)	Sq. Yd.	7.1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4.3
Approach Slab Repair (Partial Depth)	Sq. Yd.	2.8
Bridge Deck Concrete Sealer	Sq. Yd.	3498
Protective Shield	Sq. Yd.	1132
Temporary Shoring & Cribbing	Each	1
Cleaning and Painting Exposed Rebar	Sq. Ft.	510





**CONCRETE REMOVAL  
AT SOUTH ABUTMENT**

**CONCRETE REMOVAL  
AT NORTH ABUTMENT**

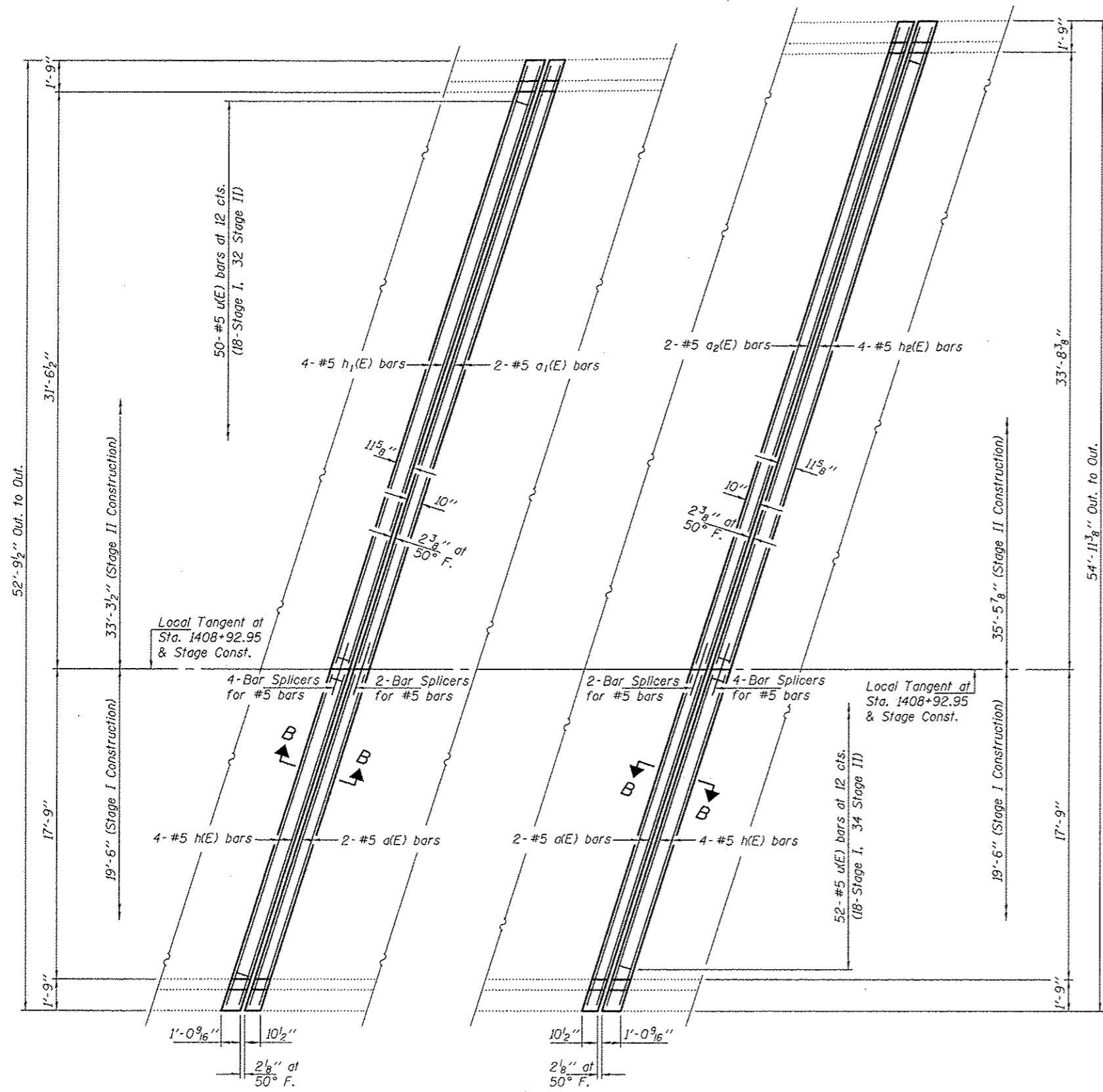


**SECTION A-A**  
Dimensions at Rt. L's

\* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

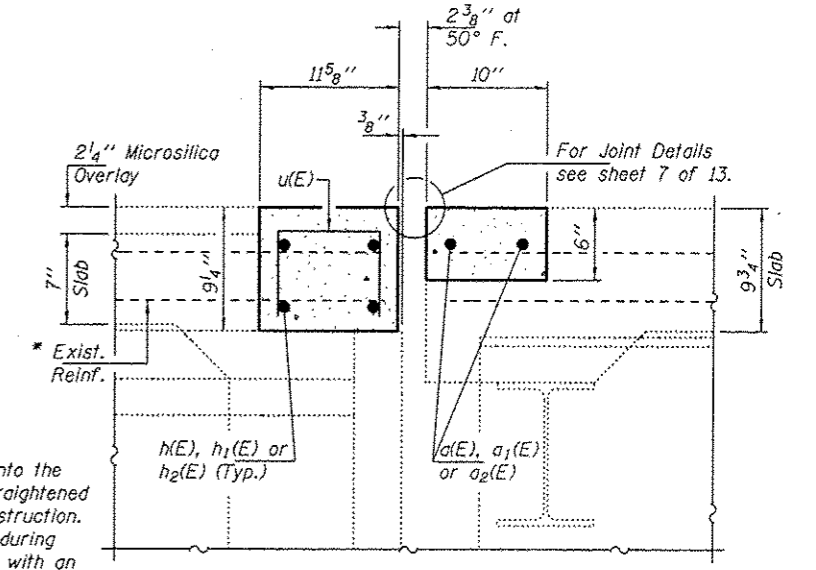
DESIGNED - GGE	EXAMINED - <i>Timothy A. [Signature]</i>	DATE - SEPTEMBER 19, 2012	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONCRETE REMOVAL DETAILS</b>		F.A.T. RTE. 39	SECTION 02 DECK REPAIR 2013-1	COUNTY OGLE	TOTAL SHEETS 32	SHEET NO. 16
CHECKED - ADY	PASSED - <i>[Signature]</i>			SN 071-0062 (S.B.)				CONTRACT NO. 64H73		
DRAWN - Kyle M. Steffen				SHEET NO. 2 OF 13 SHEETS				ILLINOIS FED. AID PROJECT		
CHECKED - GGE ADY										





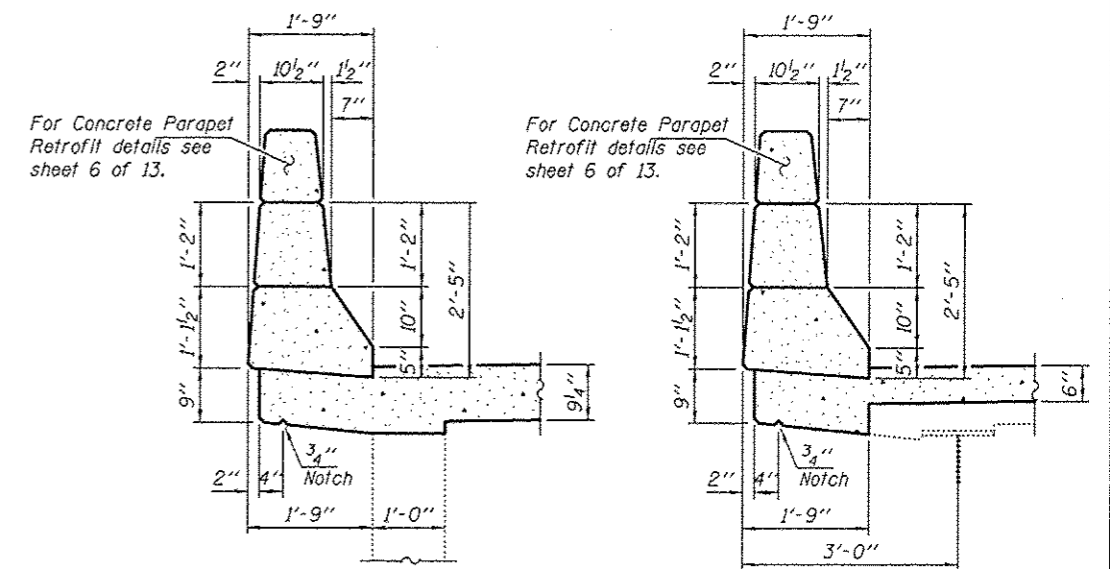
CONCRETE PLAN AT SOUTH ABUTMENT

CONCRETE PLAN AT NORTH ABUTMENT



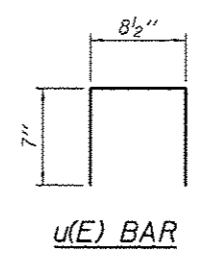
SECTION B-B  
Dimensions at Rt. L's

\* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinf. bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cast shall be included with Concrete Removal.



SECTION THRU APPROACH PARAPETS

SECTION THRU BRIDGE PARAPETS



u(E) BAR

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	20'-0"	—
a1(E)	2	#5	34'-5"	—
a2(E)	2	#5	36'-8"	—
h(E)	8	#5	20'-0"	—
h1(E)	4	#5	34'-5"	—
h2(E)	4	#5	36'-8"	—
u(E)	102	#5	1'-10 1/2"	U
Concrete Removal			Cu. Yd.	5.6
Concrete Superstructure			Cu. Yd.	5.6
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pounds	895

DESIGNED - GGE  
CHECKED - ADY  
DRAWN - Kyle M. Steffen  
CHECKED - GGE ADY

EXAMINED  
PASSED  
ACTING ENGINEER OF STRUCTURAL SERVICES  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

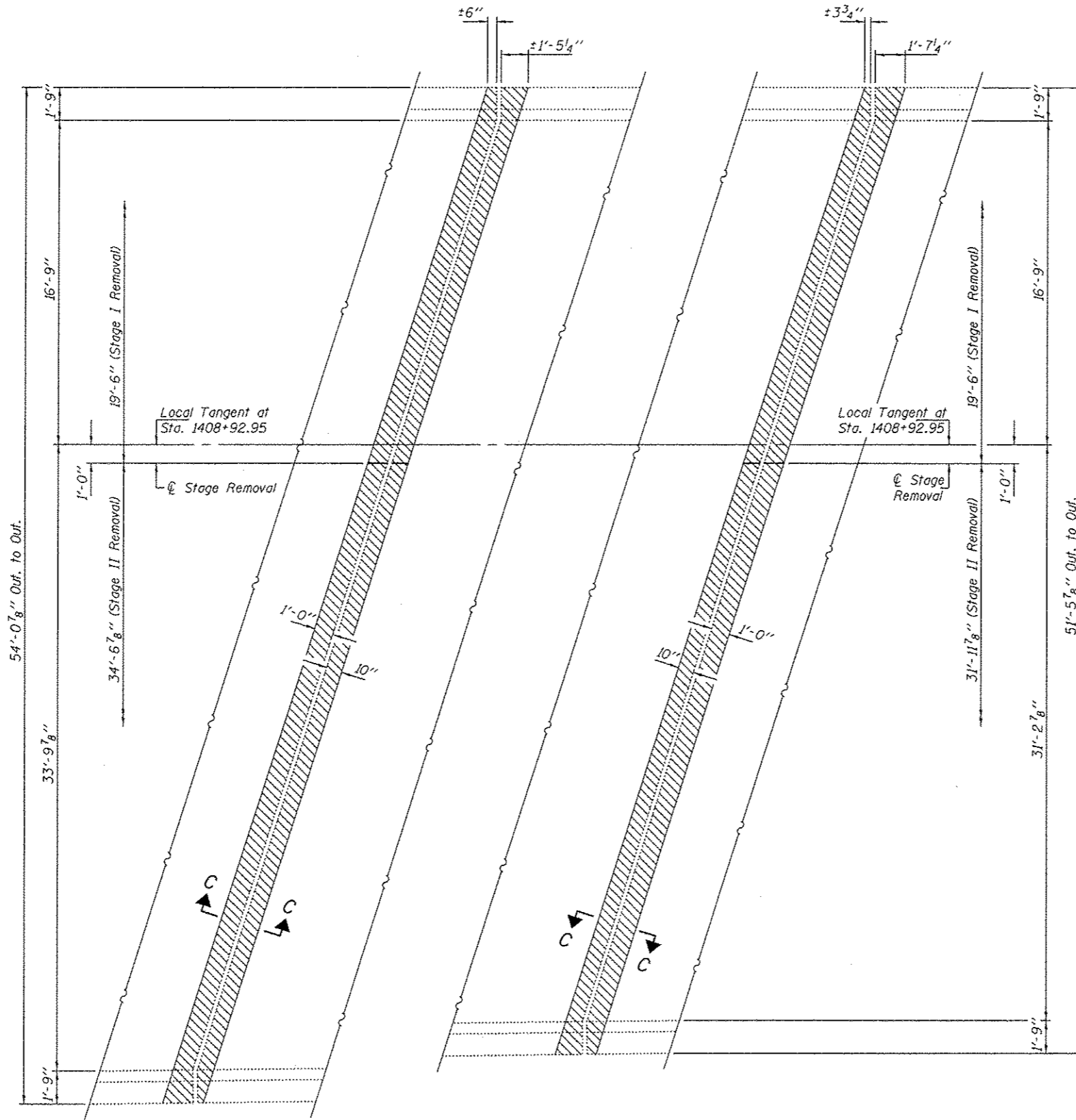
DATE - SEPTEMBER 19, 2012

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE REPLACEMENT DETAILS  
SN 071-0062 (S.B.)

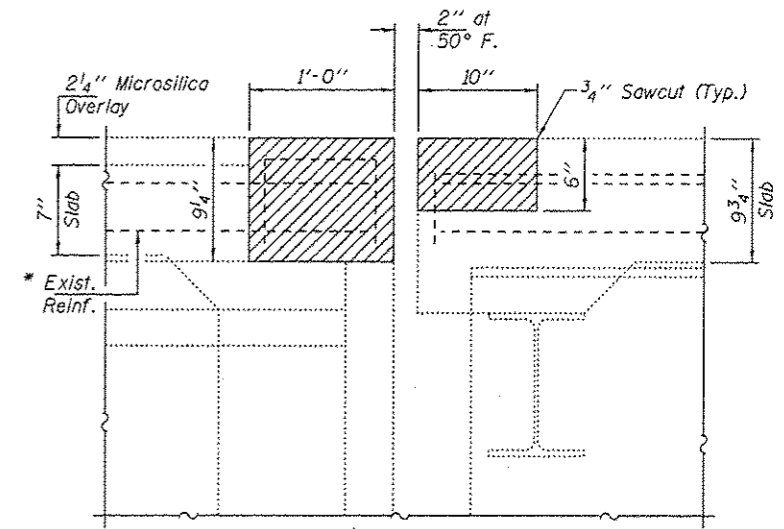
SHEET NO. 3 OF 13 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
39 02 DECK REPAIR 2013-1 OGLE 32 17  
CONTRACT NO. 64H73  
ILLINOIS FED. AID PROJECT



**CONCRETE REMOVAL  
AT SOUTH ABUTMENT**

**CONCRETE REMOVAL  
AT NORTH ABUTMENT**



**SECTION C-C**  
Dimensions at Rt. L's

\* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

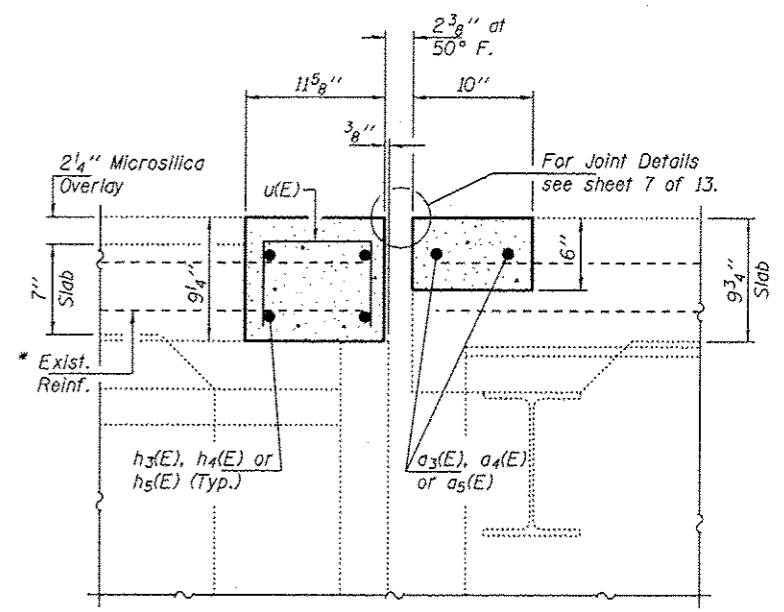
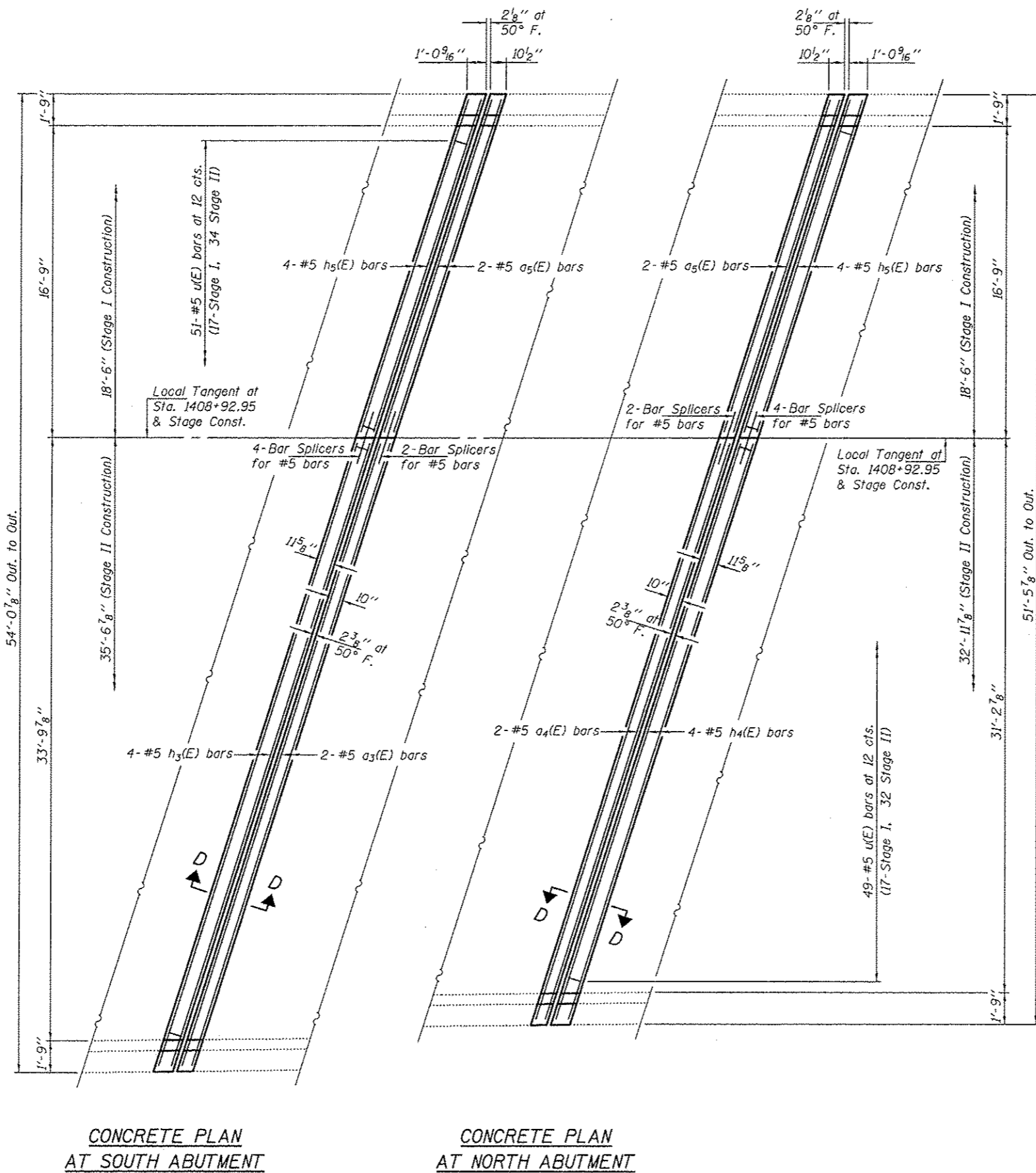
DESIGNED - GGE	EXAMINED - <i>Timothy A. Daulton</i>
CHECKED - ADY	ACTING ENGINEER OF STRUCTURAL SERVICES
DRAWN - Kyle M. Steffen	PASSED - <i>Carl Kopp</i>
CHECKED - GGE ADY	ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - SEPTEMBER 19, 2012
---------------------------

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE REMOVAL DETAILS  
SN 071-0063 (N.B.)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	18
CONTRACT NO. 64H73			ILLINOIS FED. AID PROJECT	



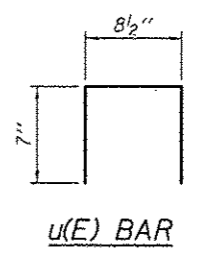
**SECTION D-D**  
Dimensions at Rt. L's

\* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

Note:  
For Parapet details see sheets 3 & 6 of 13.

**BILL OF MATERIAL**

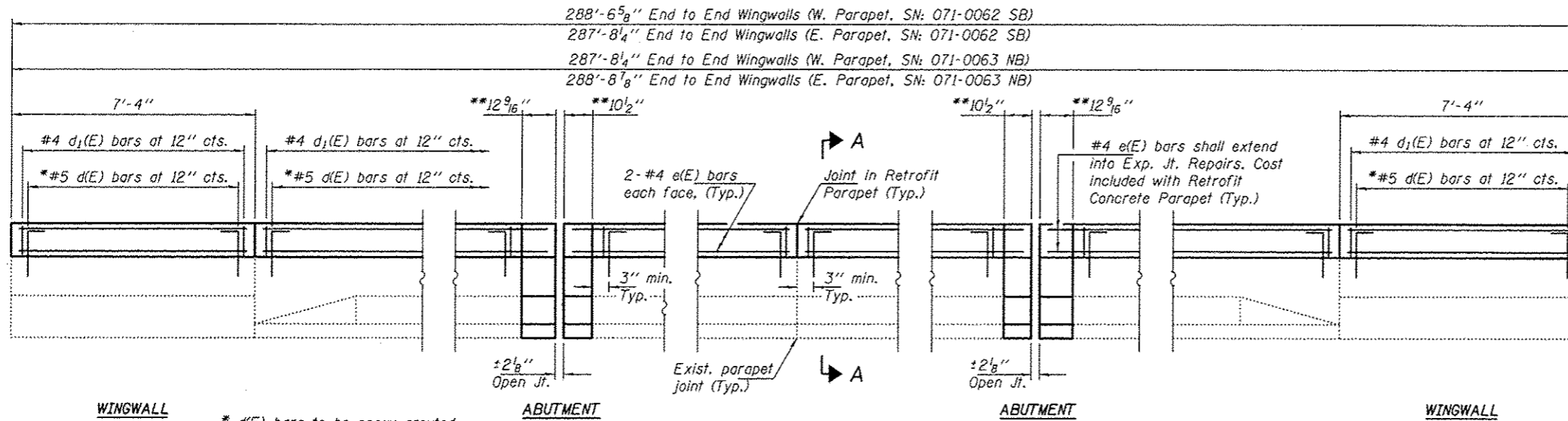
Bar	No.	Size	Length	Shape
a3(E)	2	#5	36'-10"	—
a4(E)	2	#5	34'-1"	—
a5(E)	4	#5	19'-0"	—
h3(E)	4	#5	36'-10"	—
h4(E)	4	#5	34'-1"	—
h5(E)	8	#5	19'-0"	—
u(E)	100	#5	1'-10 1/2"	□
Concrete Removal			Cu. Yd.	5.5
Concrete Superstructure			Cu. Yd.	5.5
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pounds	880



**CONCRETE PLAN AT SOUTH ABUTMENT**

**CONCRETE PLAN AT NORTH ABUTMENT**

**u(E) BAR**



WINGWALL

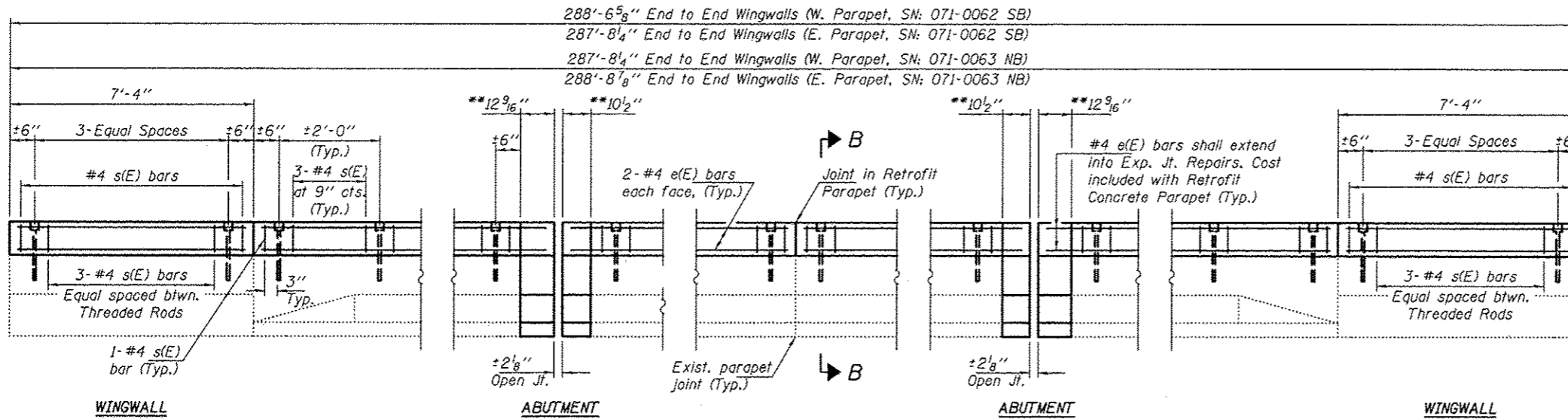
\* d(E) bars to be epoxy grouted in 7/8" φ x 9" min. holes.

\*\* Portion of Parapet to be rebuilt with Expansion Joint Replacement.

ABUTMENT

TYPICAL INSIDE ELEVATION OF PARAPET

(Cast-in-Place Alternate)

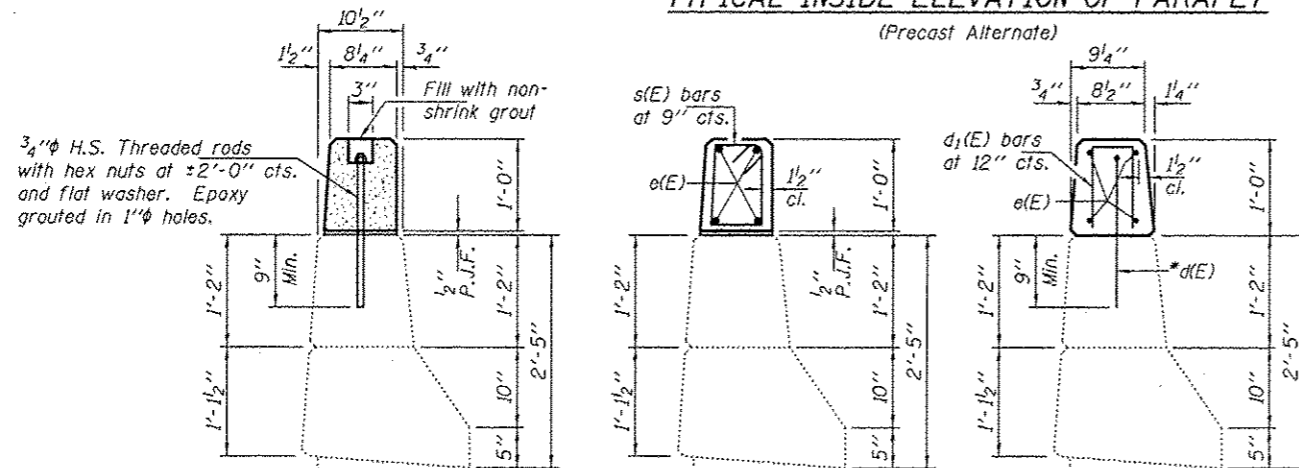


WINGWALL

ABUTMENT

TYPICAL INSIDE ELEVATION OF PARAPET

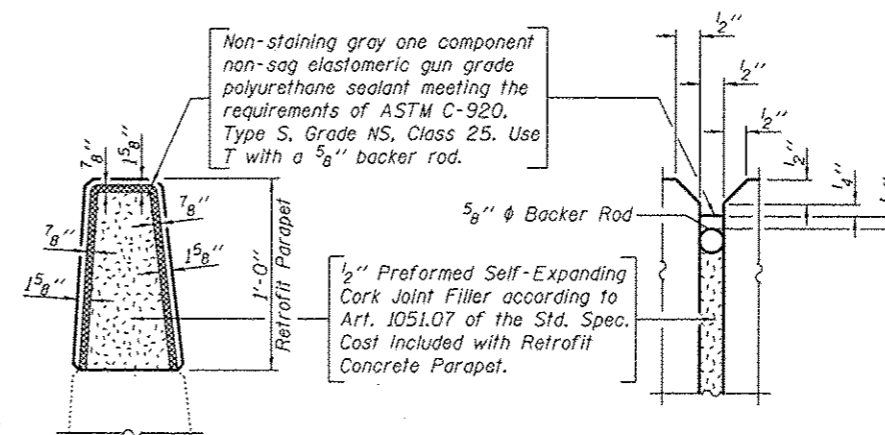
(Precast Alternate)



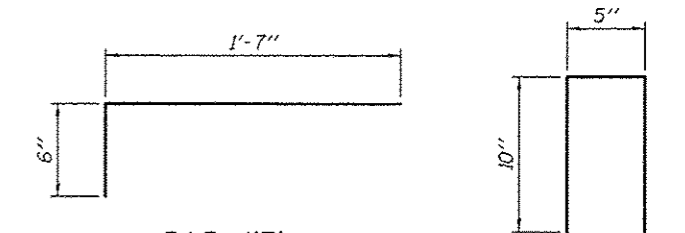
SECTION B-B (Showing Attachment)

SECTION B-B (Showing Reinforcement)

SECTION A-A

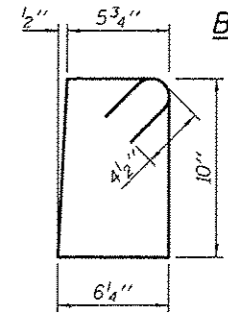


PARAPET JOINT DETAILS



BAR d(E)

BAR d<sub>1</sub>(E)



BAR s(E)

BILL OF MATERIAL

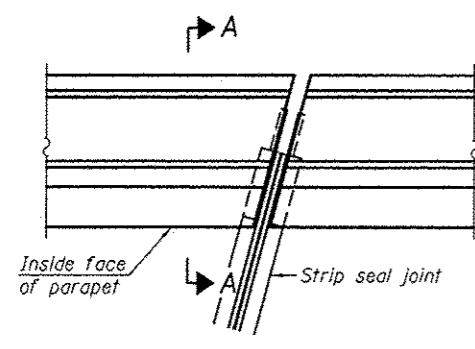
ITEM	UNIT	QUANTITY
Retrofit Concrete Parapet	Foot	1149

DESIGNED - GGE	EXAMINED - <i>Timothy A. Smith</i>	DATE - SEPTEMBER 19, 2012
CHECKED - ADY	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen	PASSED - <i>Carl King</i>	
CHECKED - GGE ADY	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

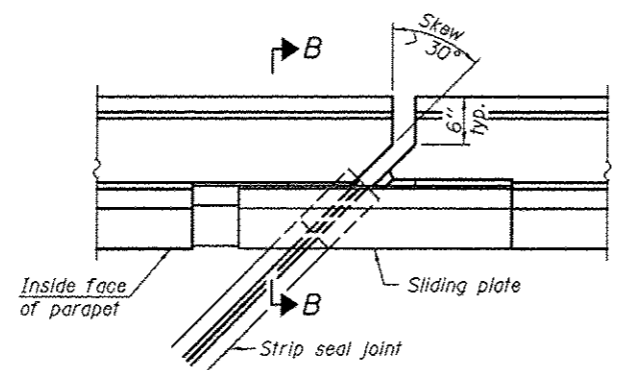
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RETROFIT CONCRETE PARAPET DETAILS  
 SN 071-0062 (S.B.) & 0063 (N.B.)

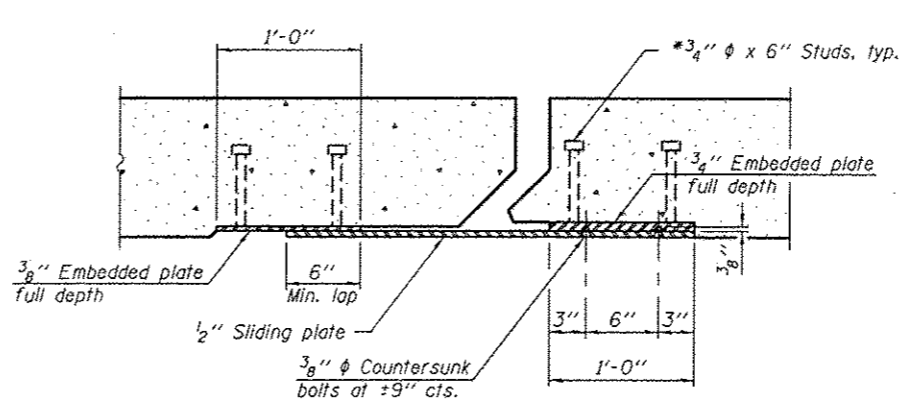
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	20
CONTRACT NO. 64H73				



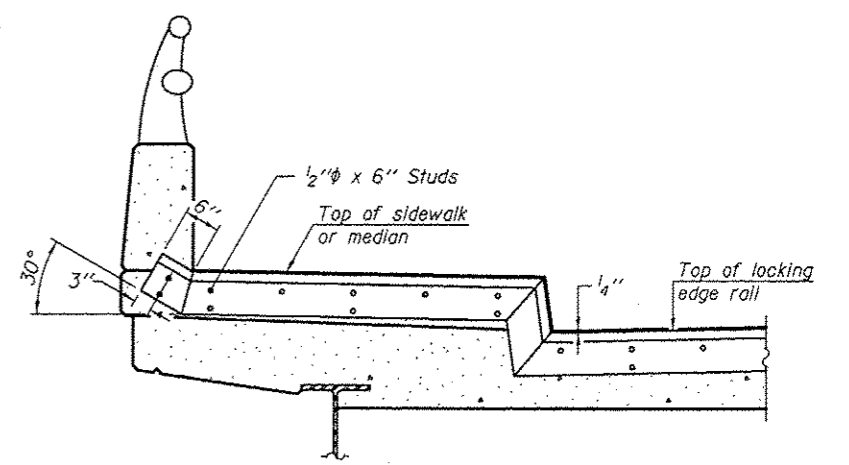
**PLAN**  
(For skews  $\le 30^\circ$ )



**PLAN**  
(For skews  $> 30^\circ$ )  
Showing point block

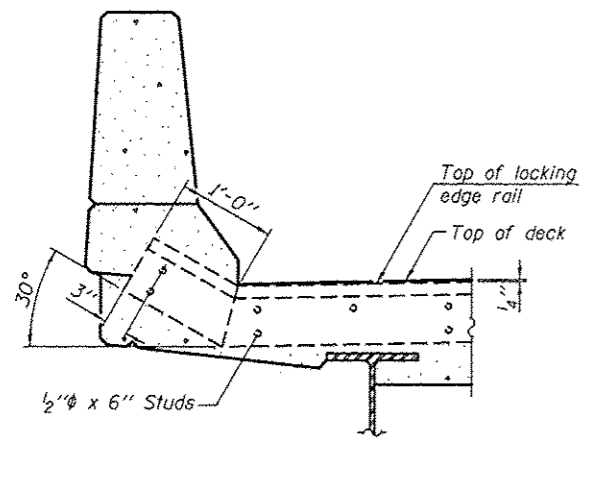


**SECTION C-C**

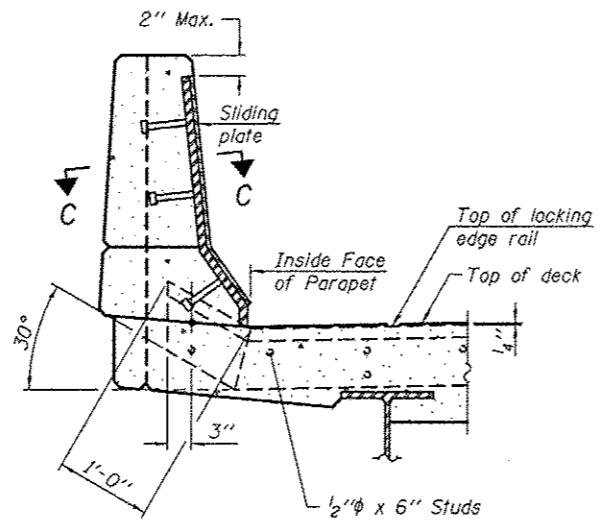


**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**

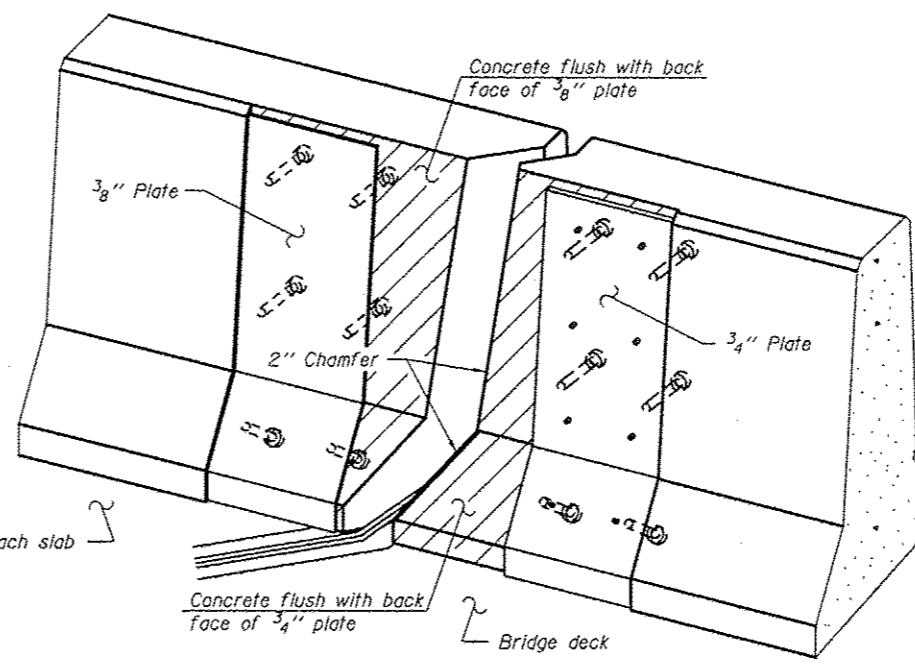
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**SECTION A-A**



**SECTION B-B**



**TRIMETRIC VIEW**  
(Showing back plates only)

**Notes:**

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

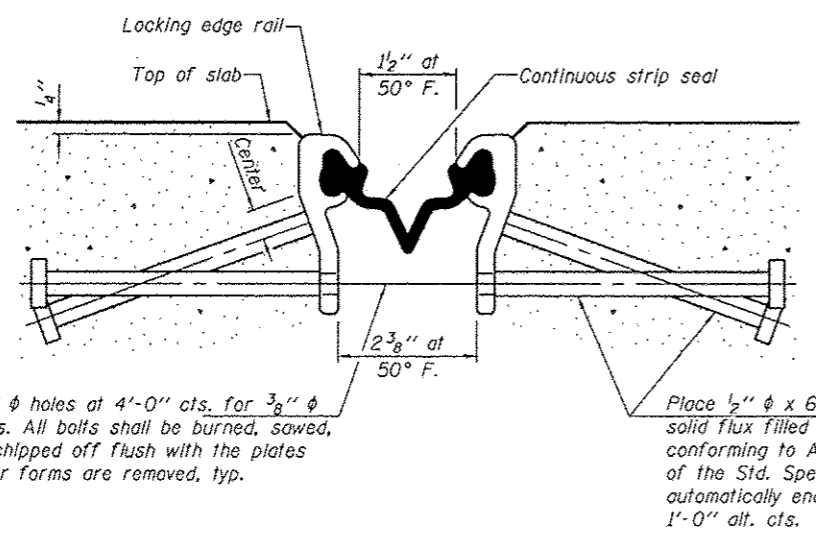
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.

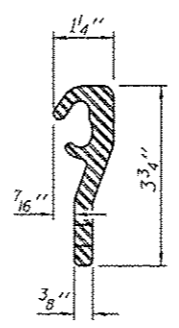


**SECTION THRU SHALLOW STRIP SEAL JOINT**

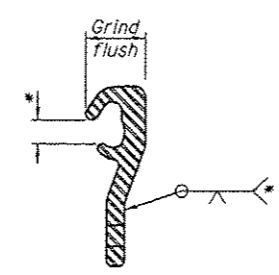
7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2"  $\phi$  x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

\* Omit weld at seal opening.



**LOCKING EDGE RAIL**



**LOCKING EDGE RAIL SPLICE**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	215.5

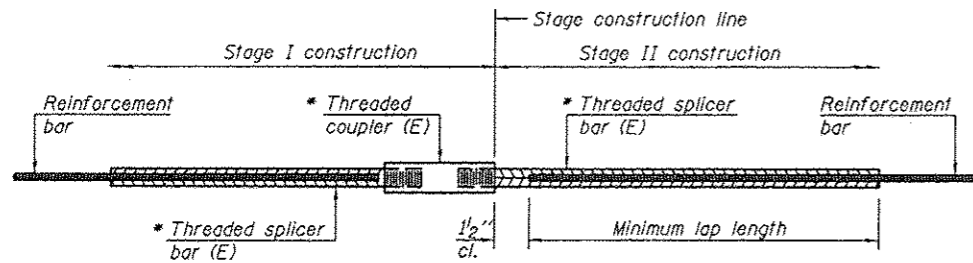
DESIGNED - GGE	EXAMINED - <i>Timothy A. Smith</i>	DATE - SEPTEMBER 19, 2012
CHECKED - ADY	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen	PASSED - <i>Carl Perry</i>	
CHECKED - GGE ADY	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS  
SN 071-0062 (S.B.) & 0063 (N.B.)

SHEET NO. 7 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	COLE	32	21
CONTRACT NO. 64H73				
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

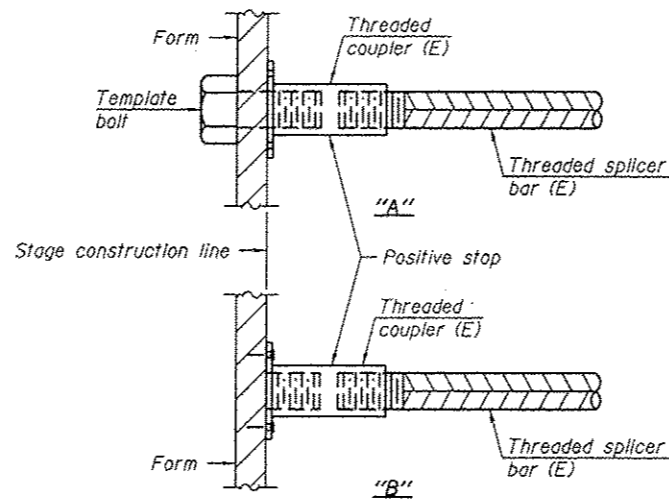
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

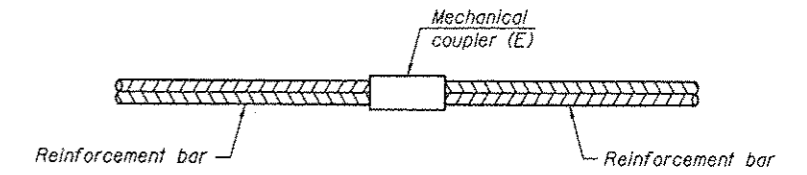
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	8	3
Abutment	#5	16	3



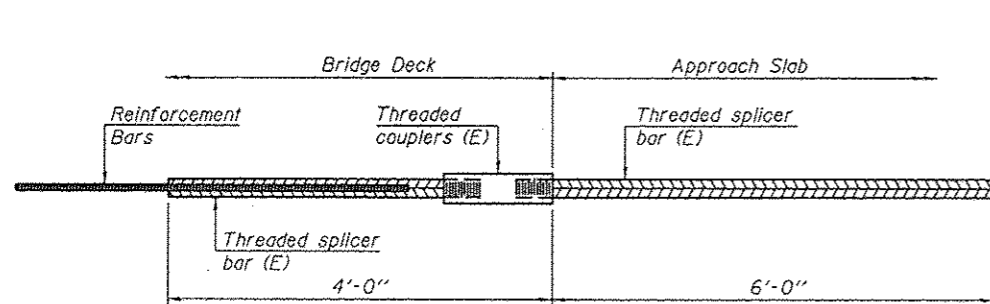
**INSTALLATION AND SETTING METHODS**

"A": Set bar splicer assembly by means of a template bolt.  
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E): Indicates epoxy coating.



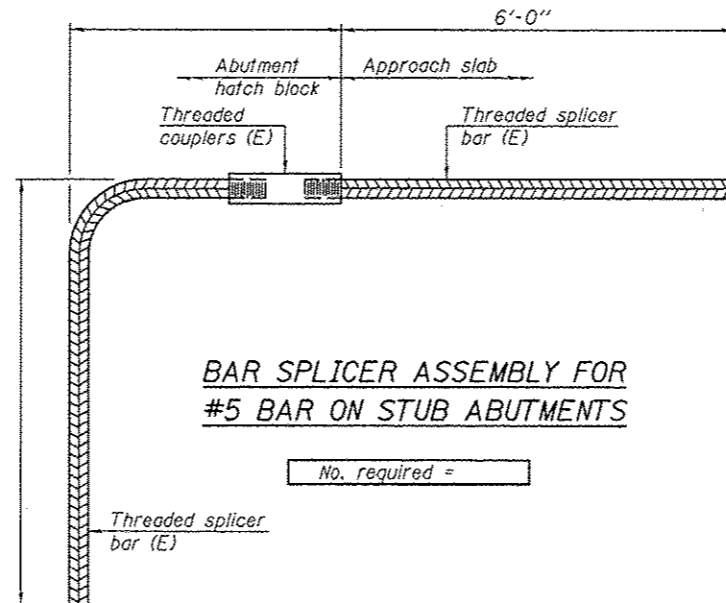
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

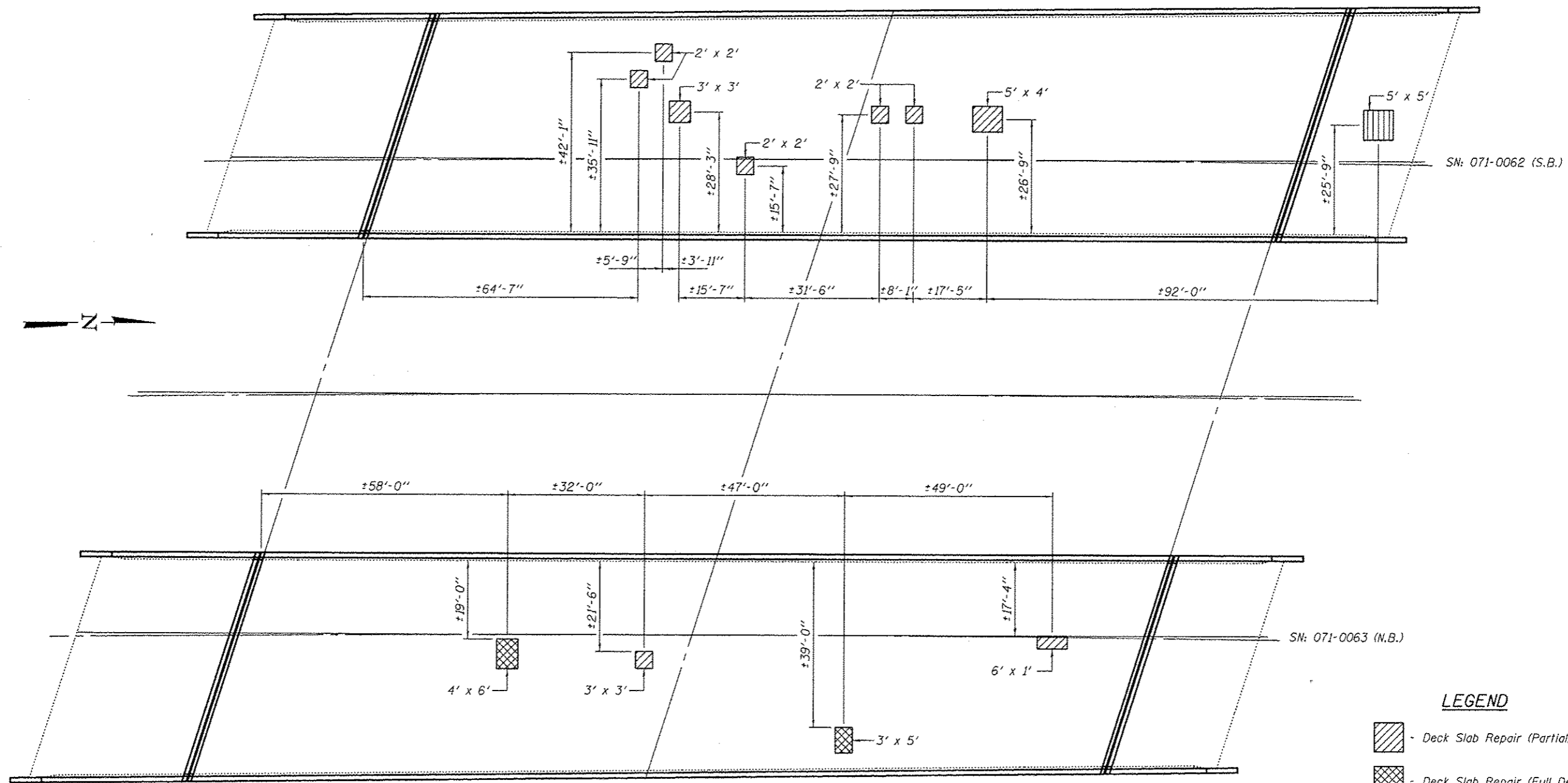
No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See special provision for Mechanical Splicers.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.




BSD-1

7-1-10



DECK PATCHING PLAN

LEGEND

-  - Deck Slab Repair (Partial)
-  - Deck Slab Repair (Full Depth, Type II)
-  - Approach Slab Repair (Partial Depth)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	7.1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4.3
Approach Slab Repair (Partial Depth)	Sq. Yd.	2.8

DESIGNED - GGE  
 CHECKED - ADY  
 DRAWN - Kyle M. Steffen  
 CHECKED - GGE ADY

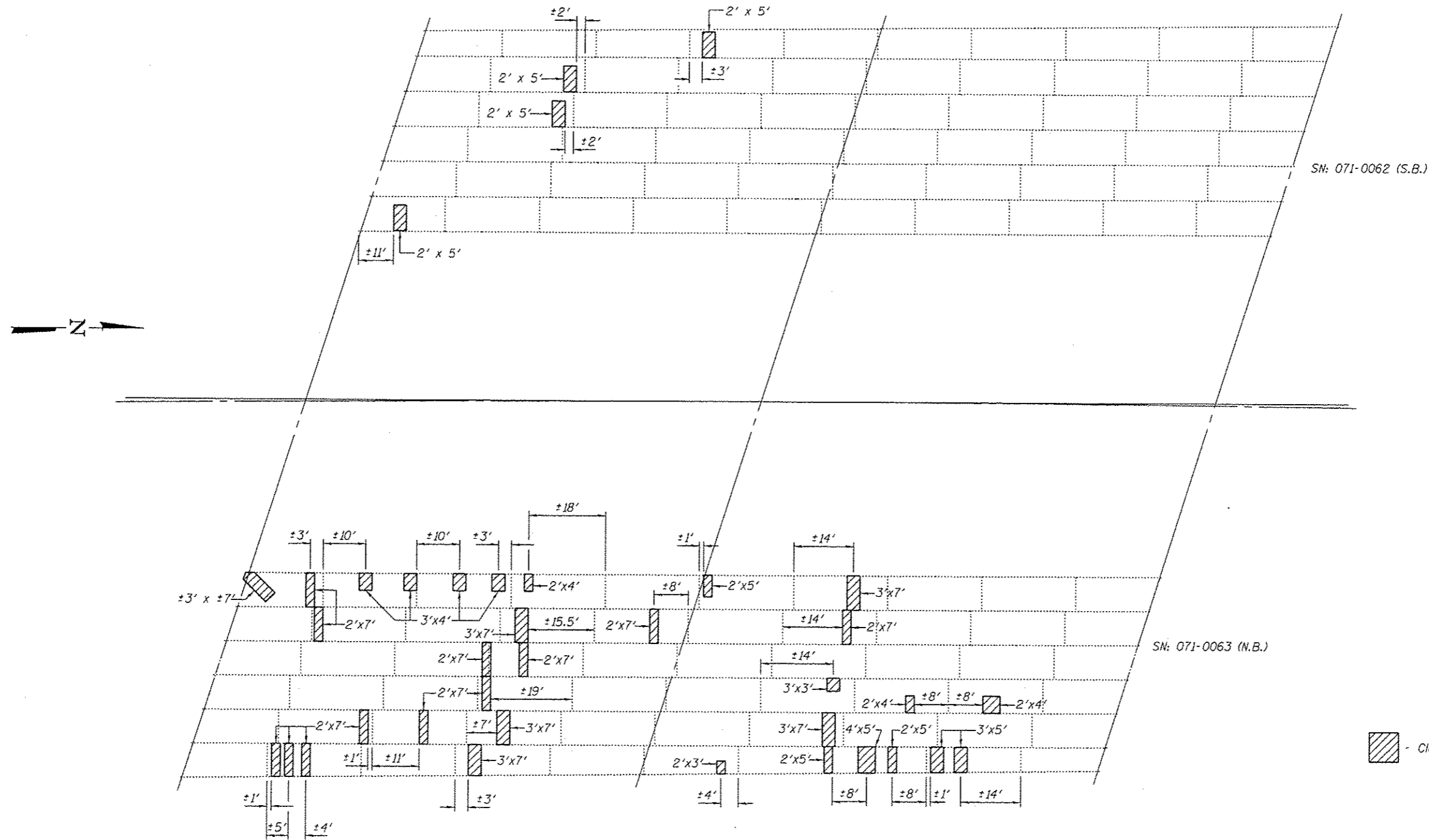
EXAMINED *Timothy A. Balliet*  
 ACTING ENGINEER OF STRUCTURAL SERVICES  
 PASSED *Carl Perry*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES  
 DATE - SEPTEMBER 19, 2012

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DECK PATCHING DETAILS  
 SN 071-0062 (S.B.) & 0063 (N.B.)  
 SHEET NO. 9 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	02 DECK REPAIR 2013-1	OGLE	32	23

CONTRACT NO. 64H73  
 ILLINOIS FED. AID PROJECT



FRAMING PLAN SHOWING SOFFIT REPAIR LOCATIONS

**LEGEND**  
 - Cleaning and Painting Exposed Rebar

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Cleaning and Painting Exposed Rebar	Sq. Ft.	510

DESIGNED - GGE	EXAMINED - <i>Timothy A. ...</i>	DATE - SEPTEMBER 19, 2012
CHECKED - ADY	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen	PASSED - <i>Carl ...</i>	
CHECKED - GGE ADY	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

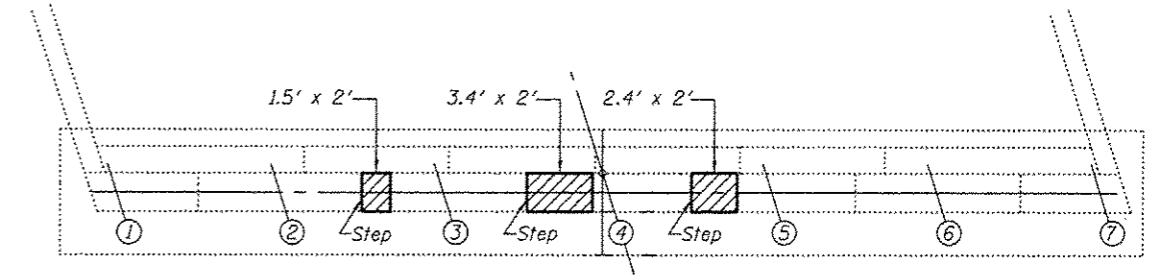
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOFFIT REPAIR DETAILS  
 SN 071-0062 (S.B.) & 0063 (N.B.)

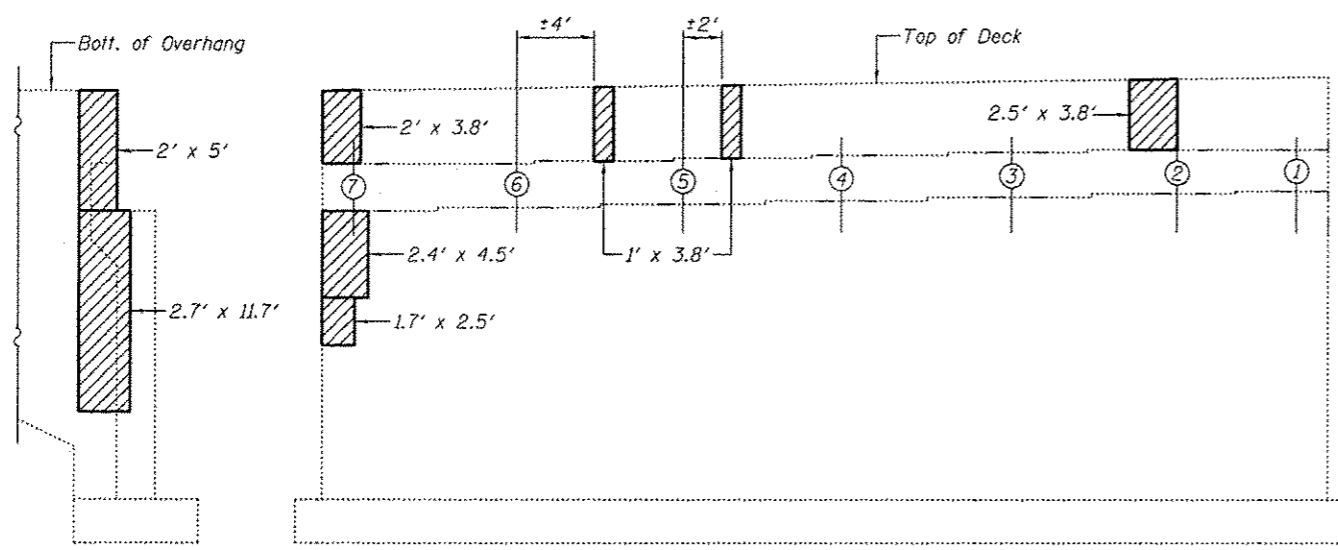
SHEET NO. 10 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	24
			CONTRACT NO. 64H73	
ILLINOIS FED. AID PROJECT				



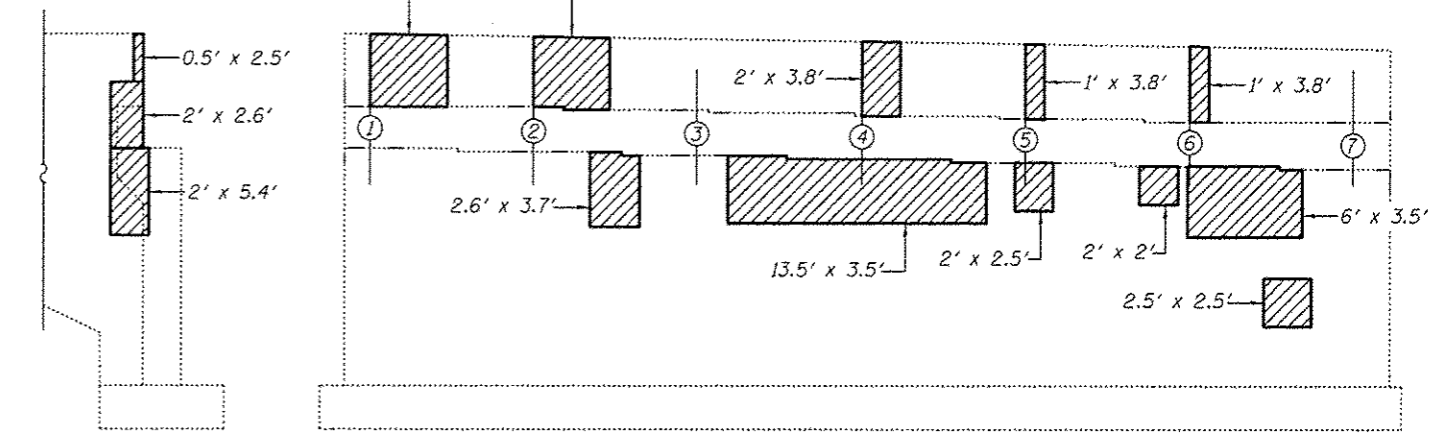


N. ABUT. PLAN (SN: 071-0062 S.B.)



SOUTH ABUTMENT  
EAST CURTAIN WALL  
(SN: 071-0062 S.B.)

SOUTH ABUTMENT (SN: 071-0062 S.B.)  
(Looking South)



NORTH ABUTMENT  
WEST CURTAIN WALL  
(SN: 071-0062 S.B.)

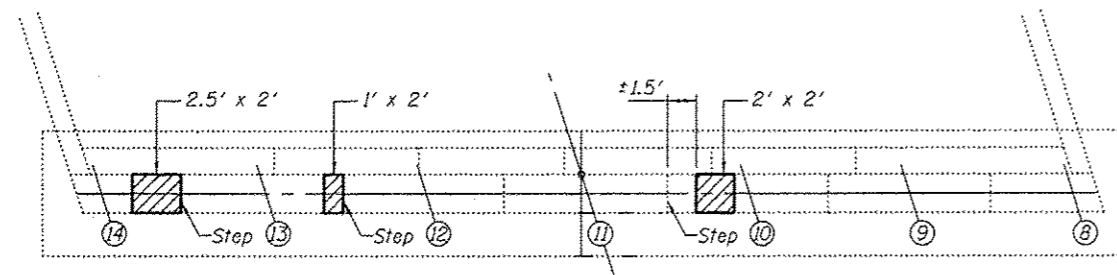
NORTH ABUTMENT (SN: 071-0062 S.B.)  
(Looking North)

BILL OF MATERIAL

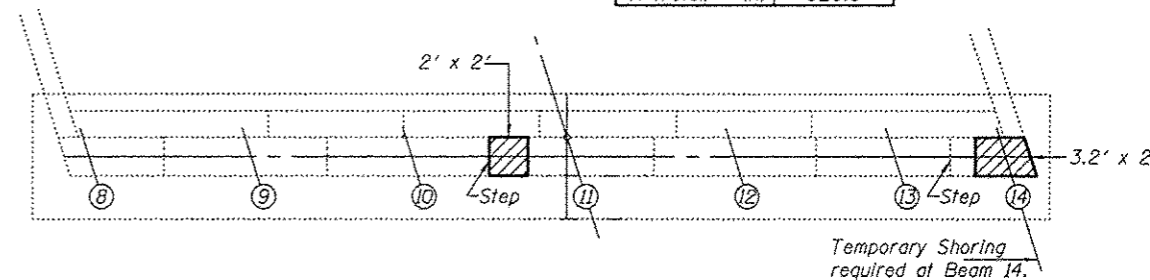
ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth ≤ 5 inches)	Sq. Ft.	252

**BEAM REACTIONS**

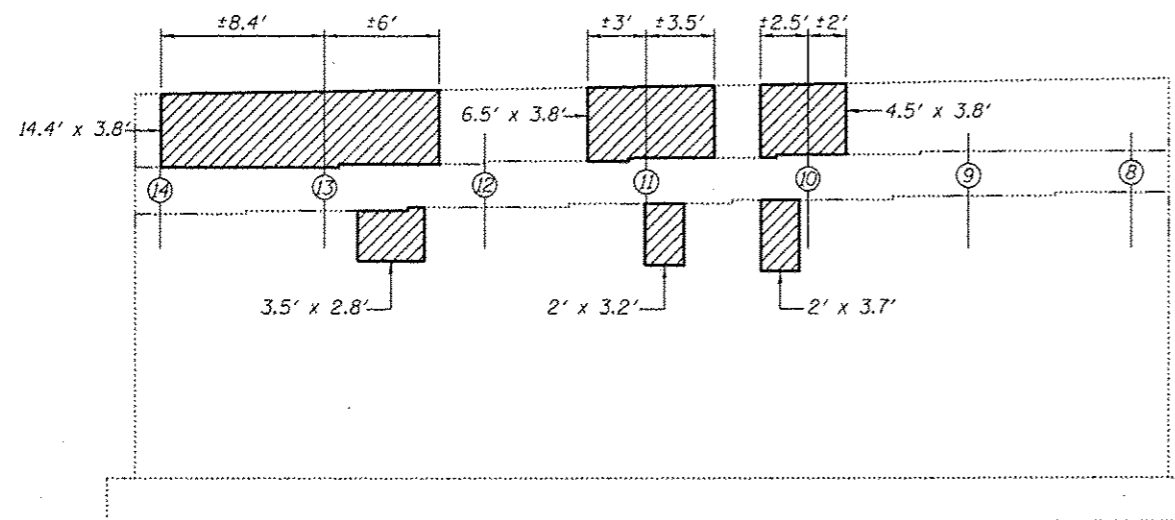
R <sub>2</sub>	(K)	216.5
R <sub>4</sub>	(K)	85.6
Imp.	(K)	18.5
R (Total)	(K)	320.6



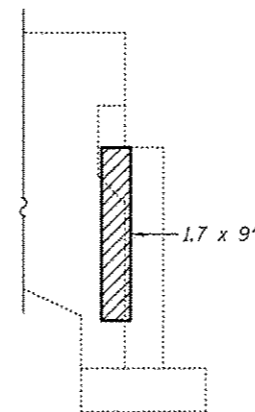
**S. ABUT. PLAN (SN: 071-0063 N.B.)**



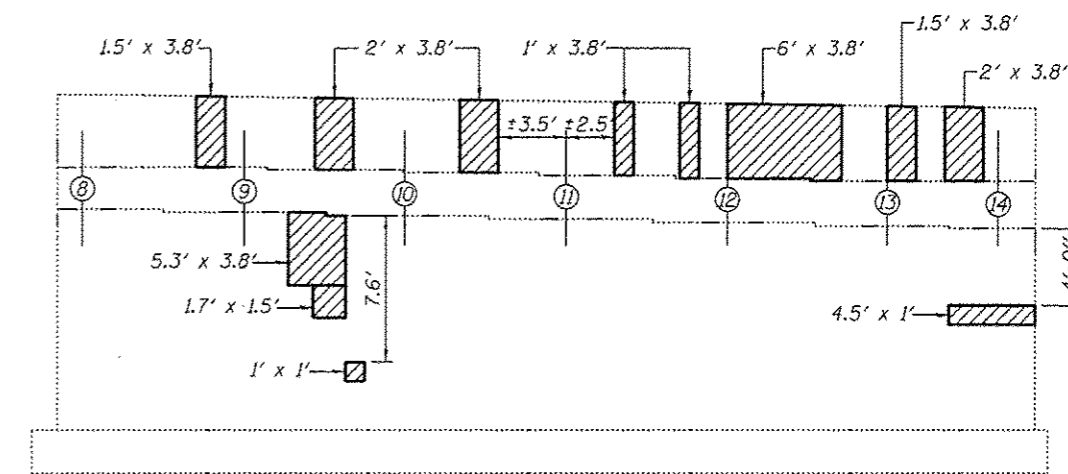
**N. ABUT. PLAN (SN: 071-0063 N.B.)**



**SOUTH ABUTMENT (SN: 071-0063 N.B.)**  
(Looking South)



**NORTH ABUTMENT WEST CURTAIN WALL (SN: 071-0063 N.B.)**



**NORTH ABUTMENT (SN: 071-0063 N.B.)**  
(Looking North)

*Note:*  
If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

**BILL OF MATERIAL**

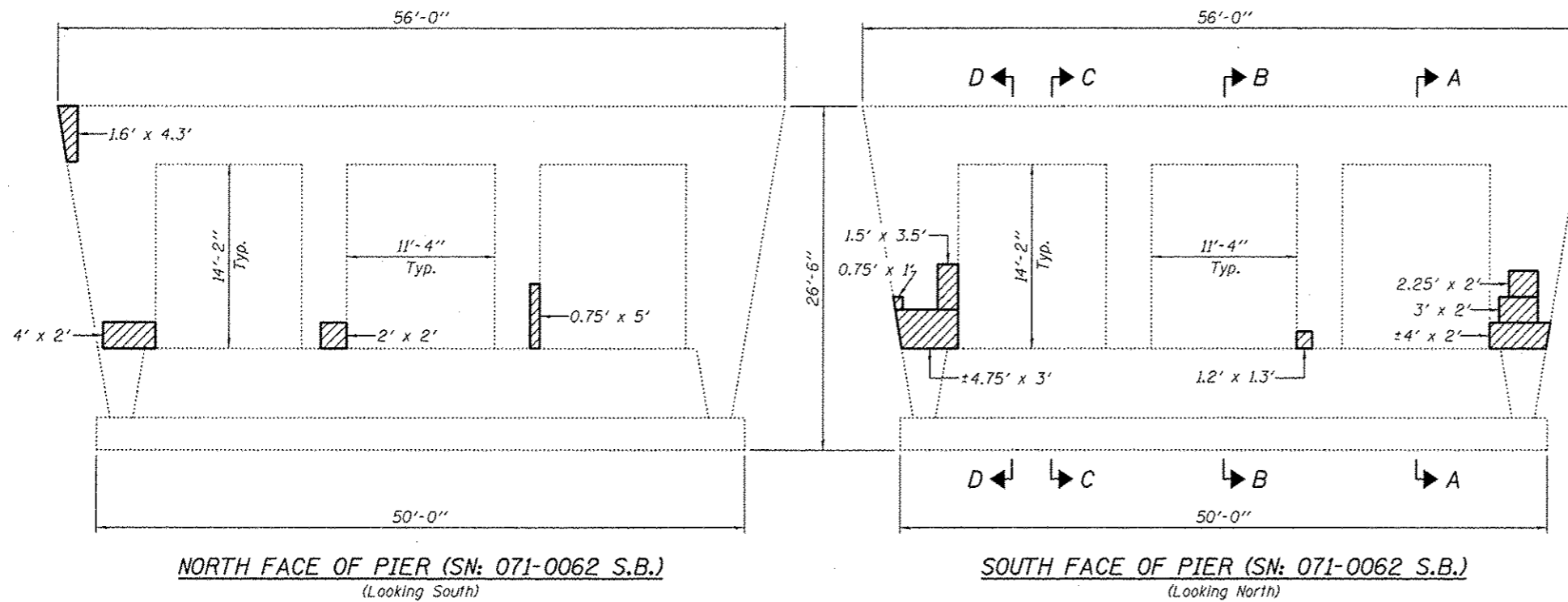
ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth ≤ 5 inches)	Sq. Ft.	250
Temporary Shoring & Cribbing	Each	1

DESIGNED - GGE	EXAMINED - <i>Timothy A. [Signature]</i>	DATE - SEPTEMBER 19, 2012
CHECKED - ADY	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen	PASSED - <i>[Signature]</i>	
CHECKED - GGE ADY	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

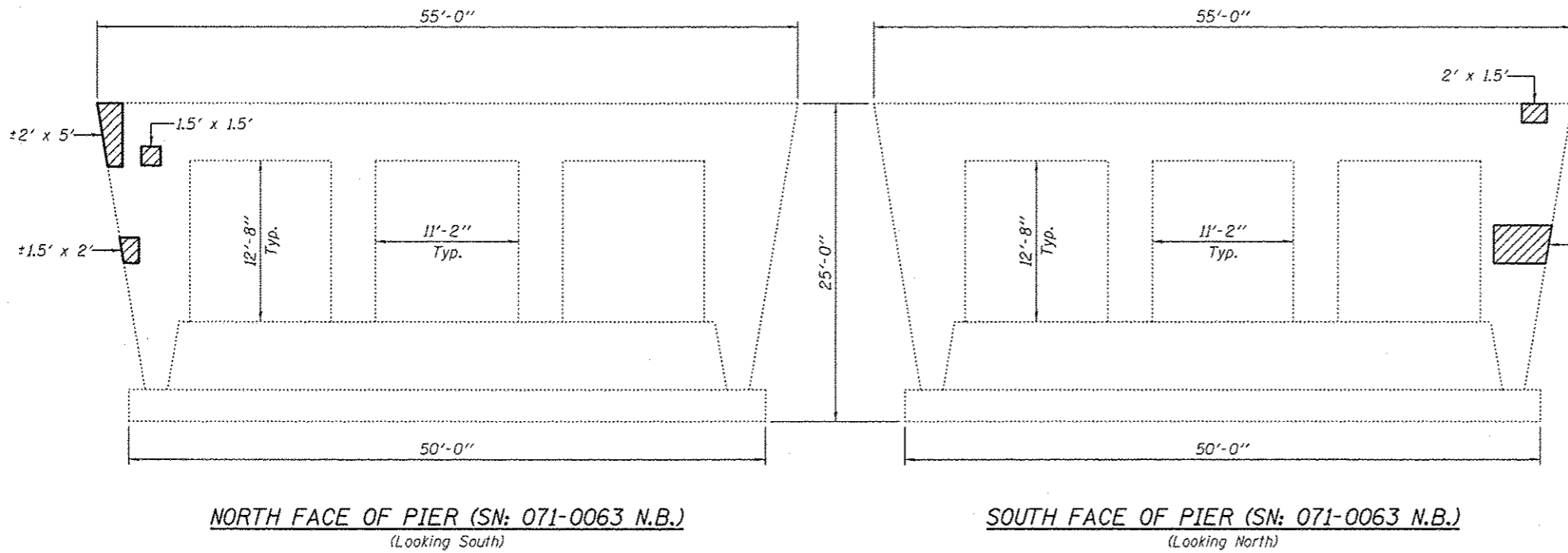
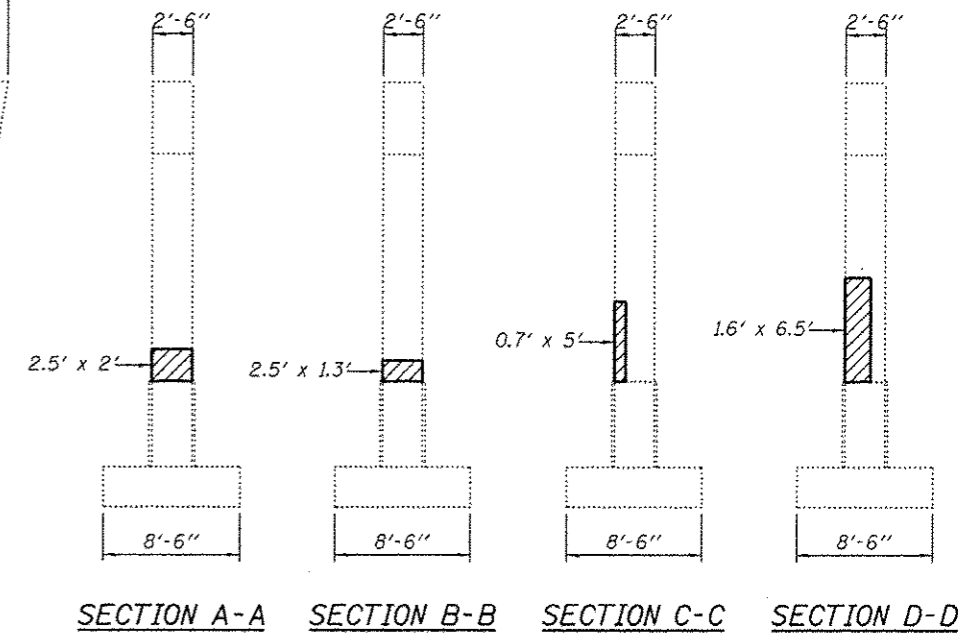
**STRUCTURAL REPAIR OF CONCRETE AT ABUTMENTS SN 071-0063 (N.B.)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	26
CONTRACT NO. 64H73				
ILLINOIS FED. AID PROJECT				



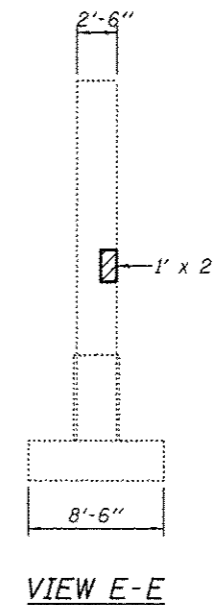
**NORTH FACE OF PIER (SN: 071-0062 S.B.)**  
(Looking South)

**SOUTH FACE OF PIER (SN: 071-0062 S.B.)**  
(Looking North)



**NORTH FACE OF PIER (SN: 071-0063 N.B.)**  
(Looking South)

**SOUTH FACE OF PIER (SN: 071-0063 N.B.)**  
(Looking North)



**VIEW E-E**

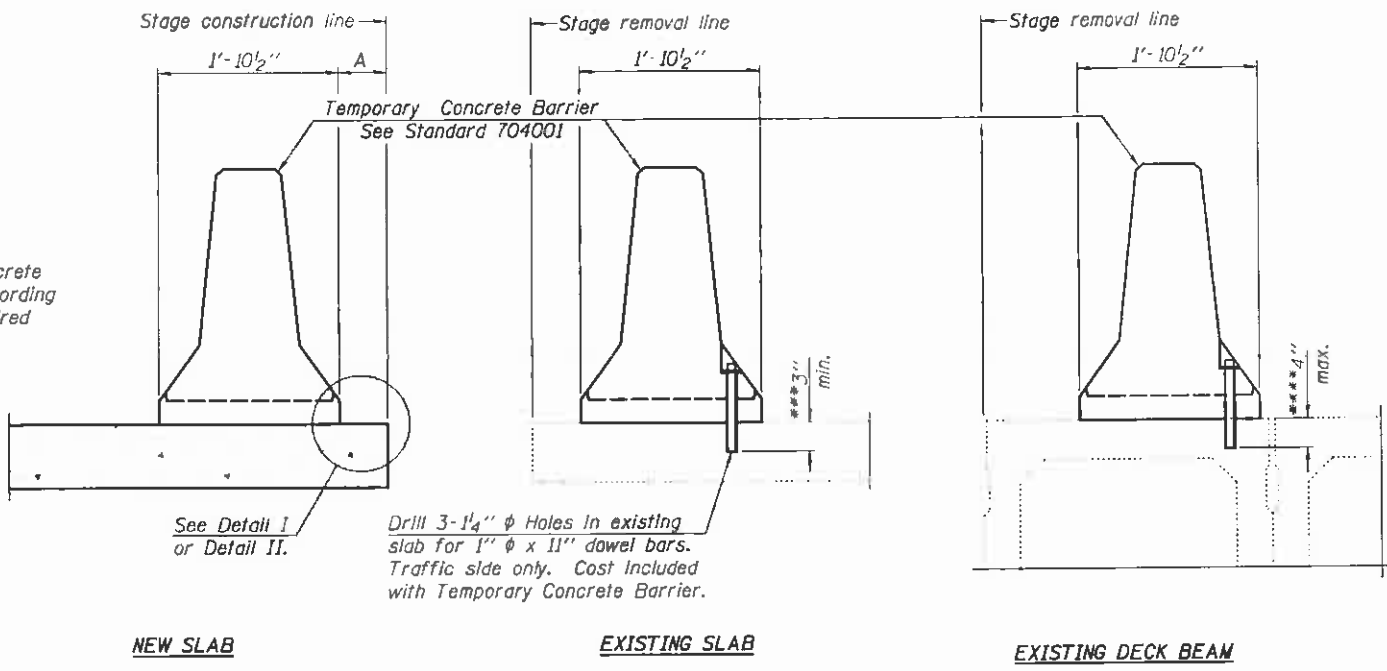
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth ≤ 5 inches)	Sq. Ft.	119

DATE	BY

DATE	BY

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



See Detail I or Detail II.  
 Drill 3-1/4"  $\phi$  Holes in existing slab for 1"  $\phi$  x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

**NOTES**

Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7" x "W" steel  $\bar{P}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

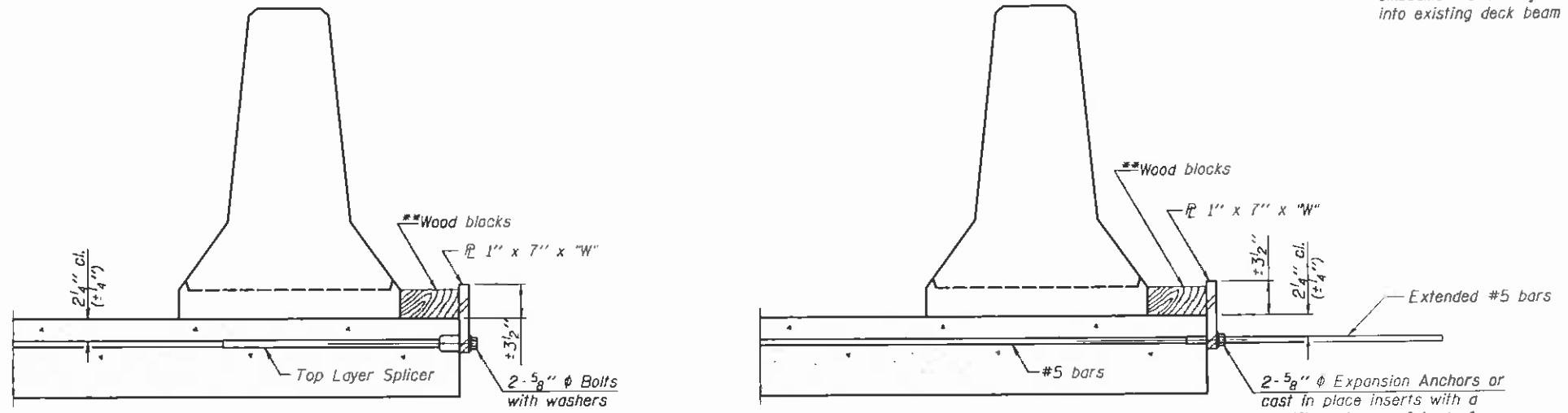
Detail II - With Extended Reinforcement Bars: Connect one (1) 1" x 7" x "W" steel  $\bar{P}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

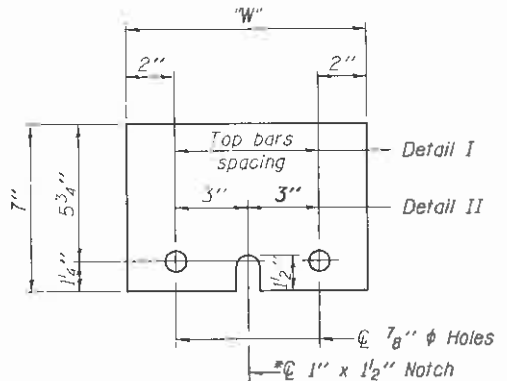
\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I

DETAIL II



STEEL RETAINER P 1" x 7" x "W"

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

FILE NAME = 0264H73-shr-pinwingde1.dwg PLOT DATE = 5/30/2012 PLOT SCALE = 50.0000 / 1X	<b>CHRISTIAN-DODGE &amp; ASSOCIATES, INC.</b> ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2027 FAX: (312)372-5274	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - FEBRUARY 2012	REVISED -

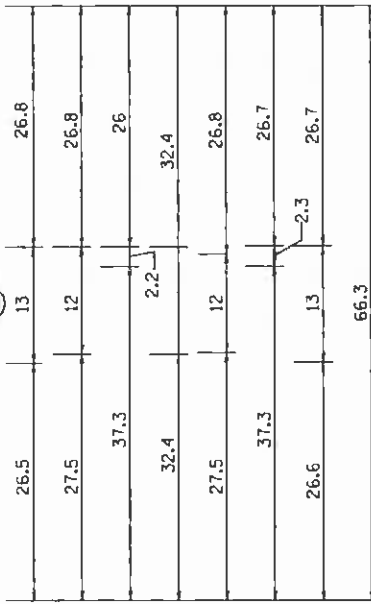
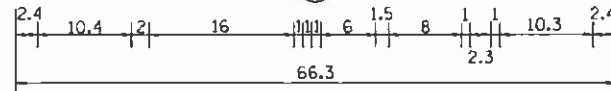
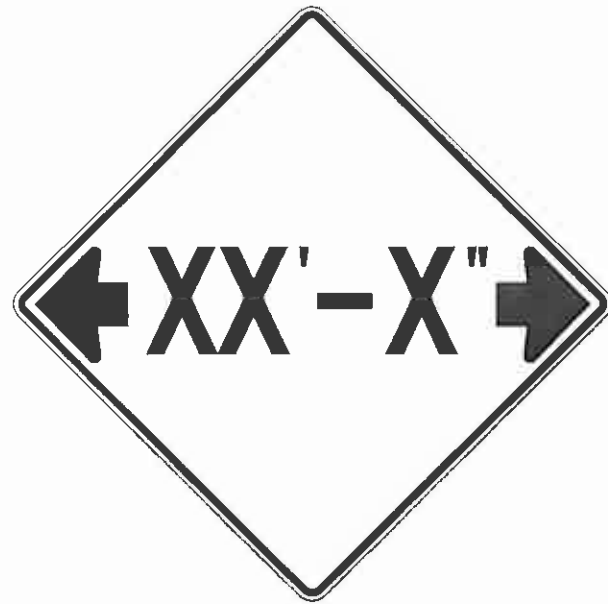
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
 S.N. 071-0062 (NB) & S.N. 071-0062 (SB)

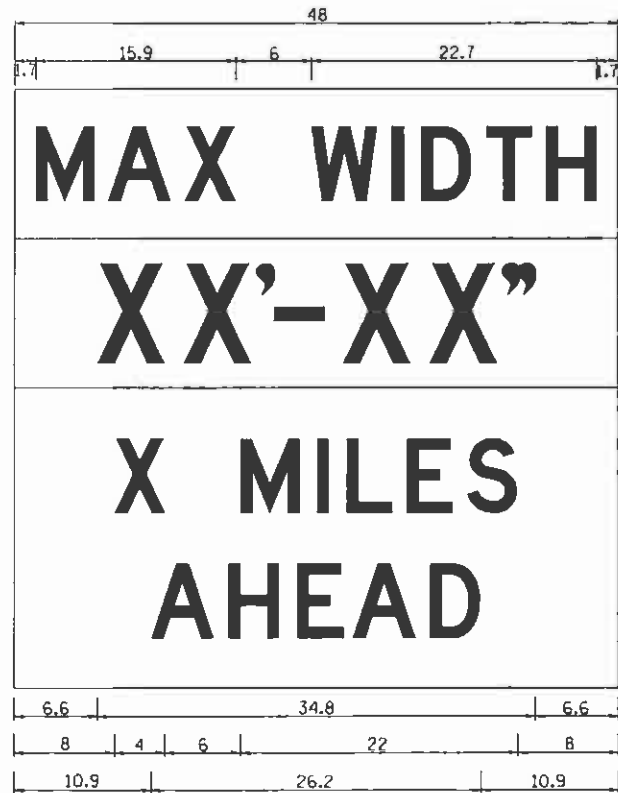
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	27
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				CONTRACT NO. 64H73

# INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



**NOTES**  
 W12-2 - Horizontal Clearance Sign  
 48.0" across sides, 1.9" Radius,  
 0.8" Border, 0.5" Indent, Black on  
 Orange; Standard Arrow Custom  
 10.4" X 8.1" 180° Black 1/2 Inch  
 D Series Lettering; Standard Arrow  
 Custom 10.4" X 8.1" 0°



W12-1103 (Width Is BD);  
 No border, Black on White;  
 [MAX WIDTH] D;

No border, Black on Orange;  
 [XX'-XX'''] D;

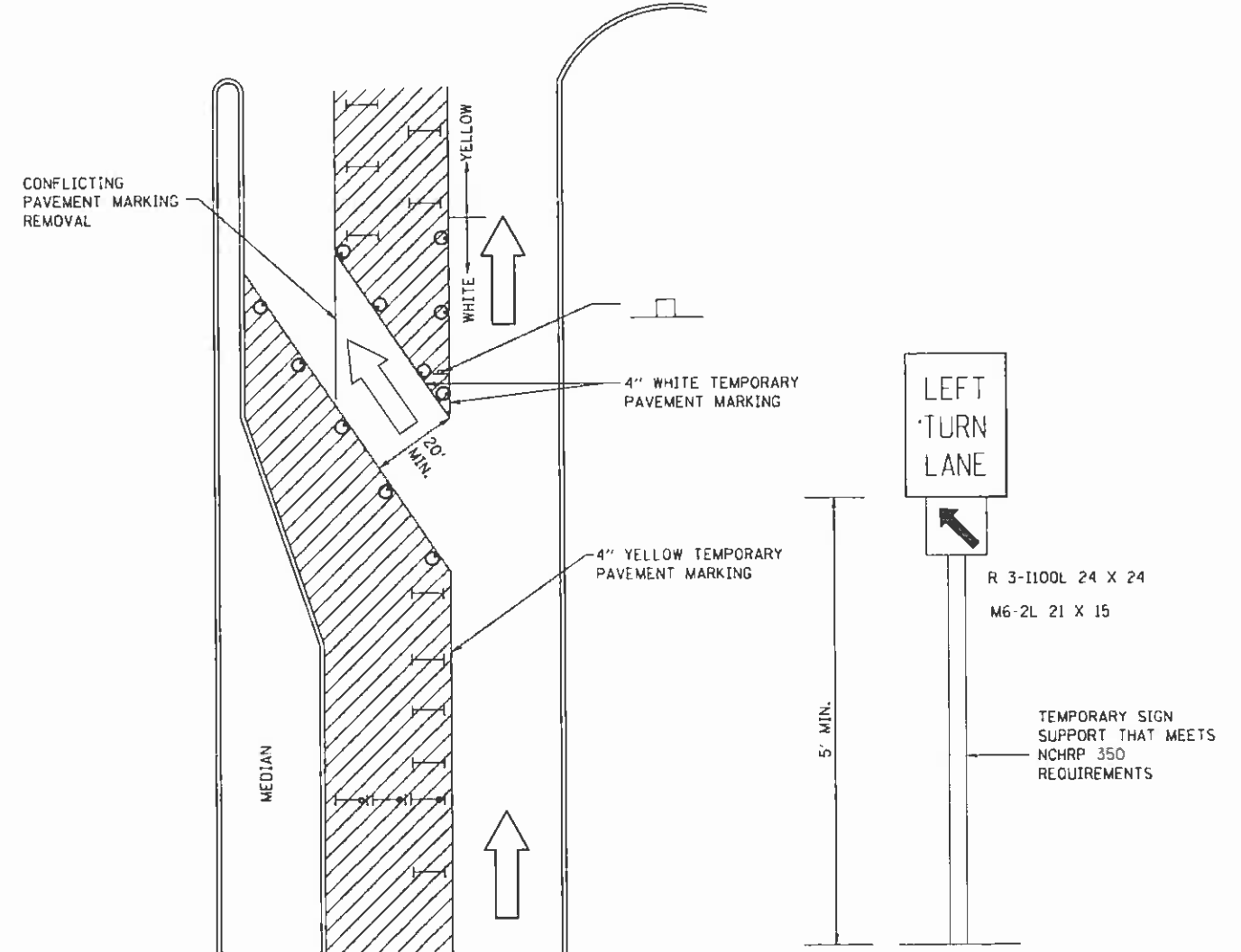
No border, Black on White;  
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

# TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



## LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
- DRUM OR BARRICADE WITH STEADY BURN LIGHT
- SIGN (SEE DETAIL)
- TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

## GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

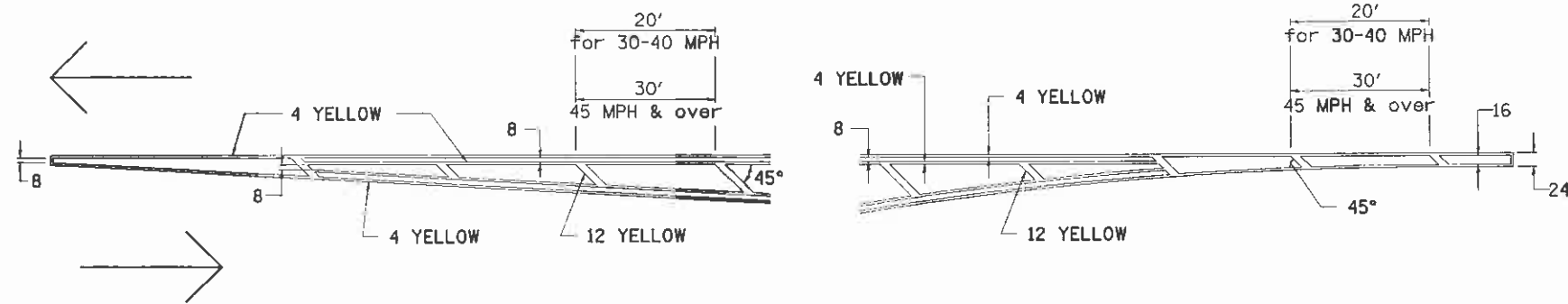
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

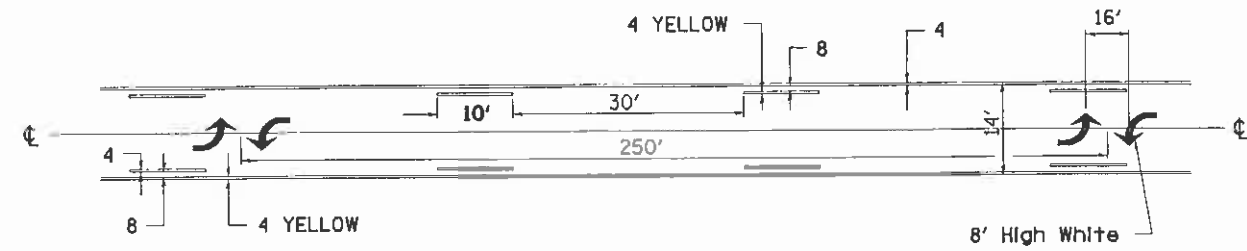
REVISED - 10-14-11	<b>REGION 2 / DISTRICT 2 STANDARD</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					39	D2 DECK REPAIR 2013-1	OGLE	32	28
REVISED -					CONTRACT NO. 64H73				
REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
SCALE: 1/2" = 1'-0"	SHEET NO.	OF	SHEETS	STA.	TO STA.				

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

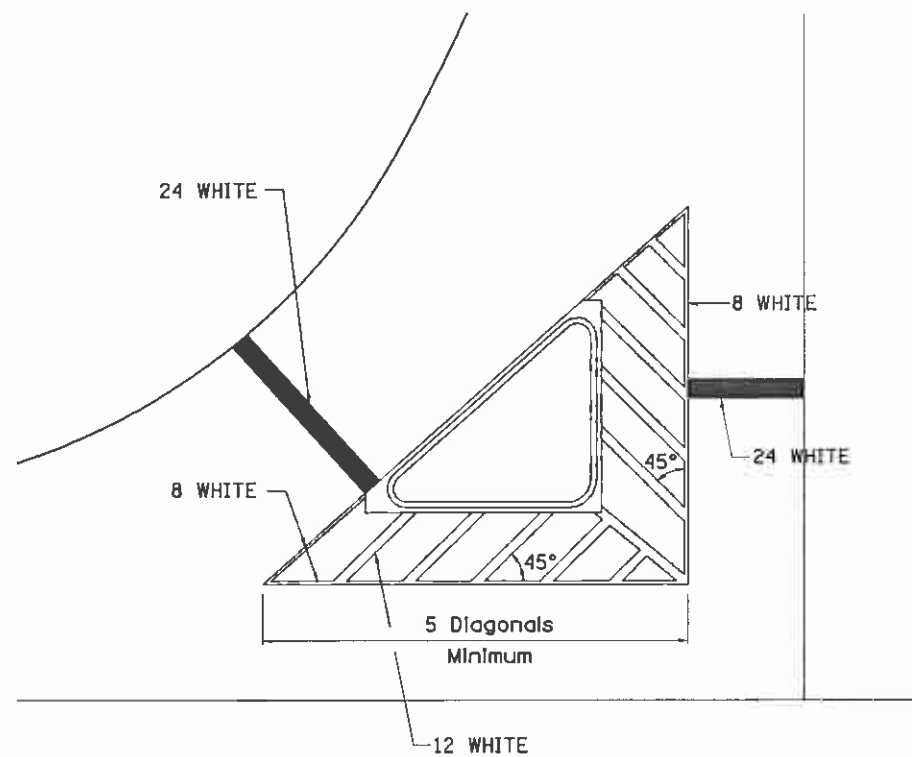


## MEDIAN PAVEMENT MARKING

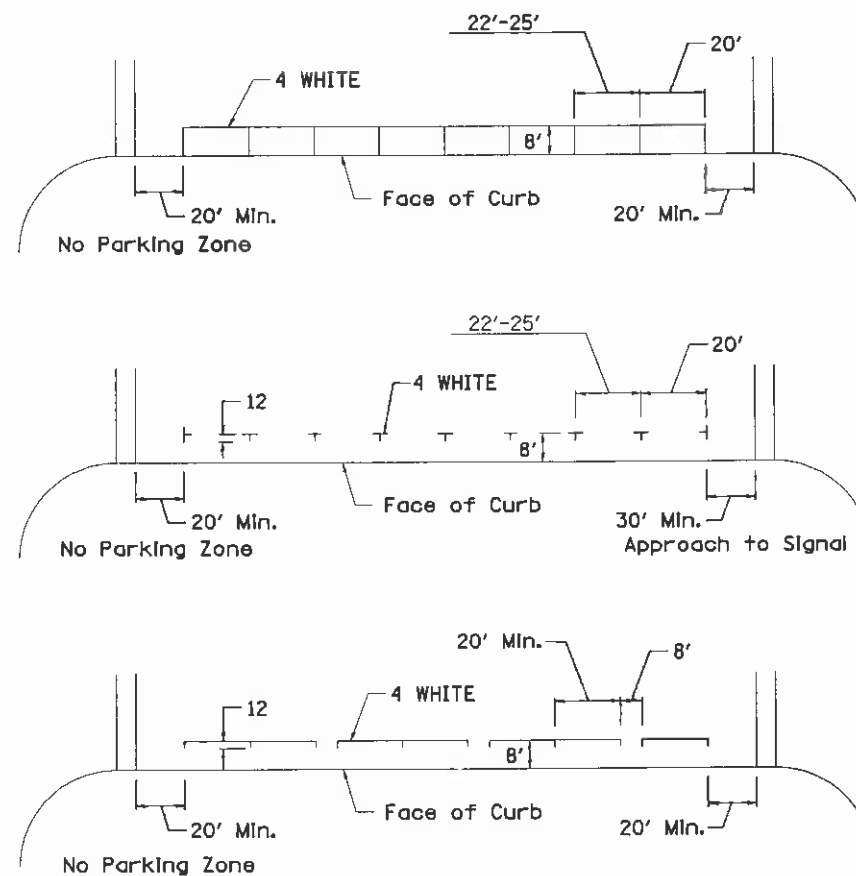


\*\* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

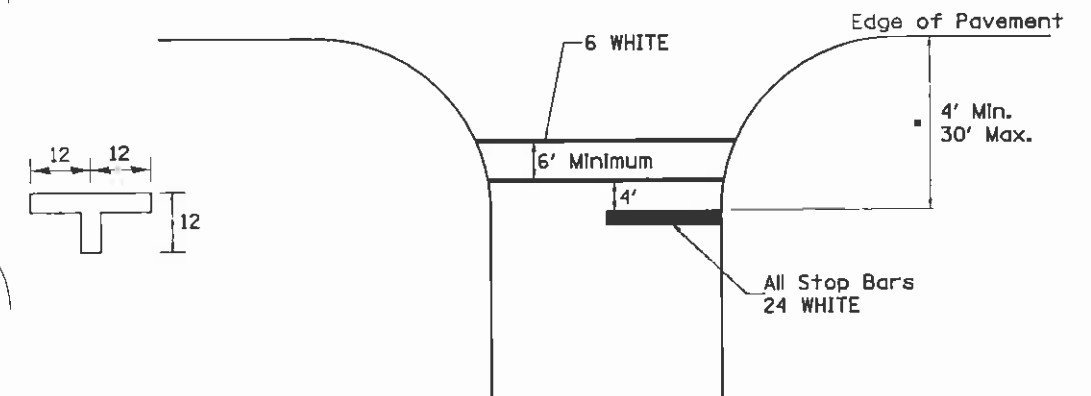


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations

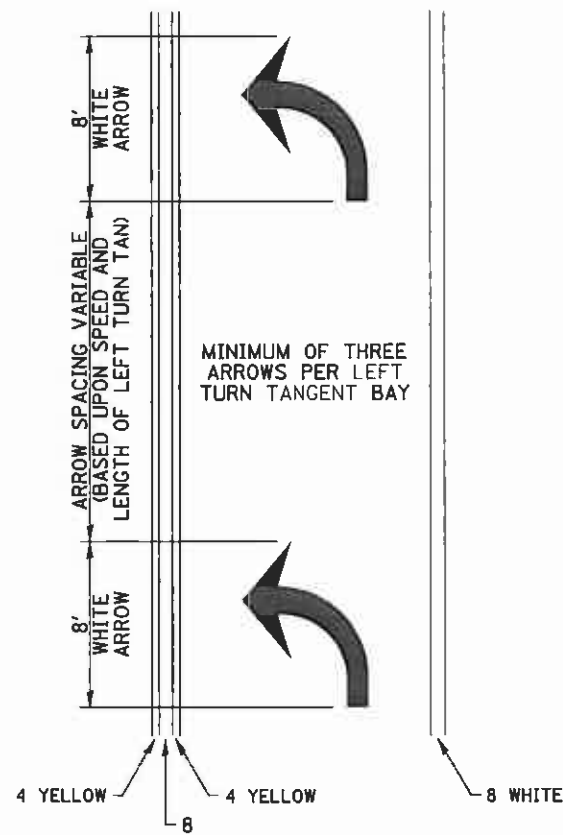


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME : \\182703.1-39\CAAD Sheets\0264H73-sh1-5.dwg	USER NAME : IDOT	DESIGNED -	REVISED - 10-18-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>				F.A.P. RTE. 39	SECTION D2 DECK REPAIR 2013-1	COUNTY OGLE	TOTAL SHEETS 32	SHEET NO. 29
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 64H73			
PLOT DATE = 5/30/2012	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
<b>TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3</b>													

# TYPICAL PAVEMENT MARKINGS

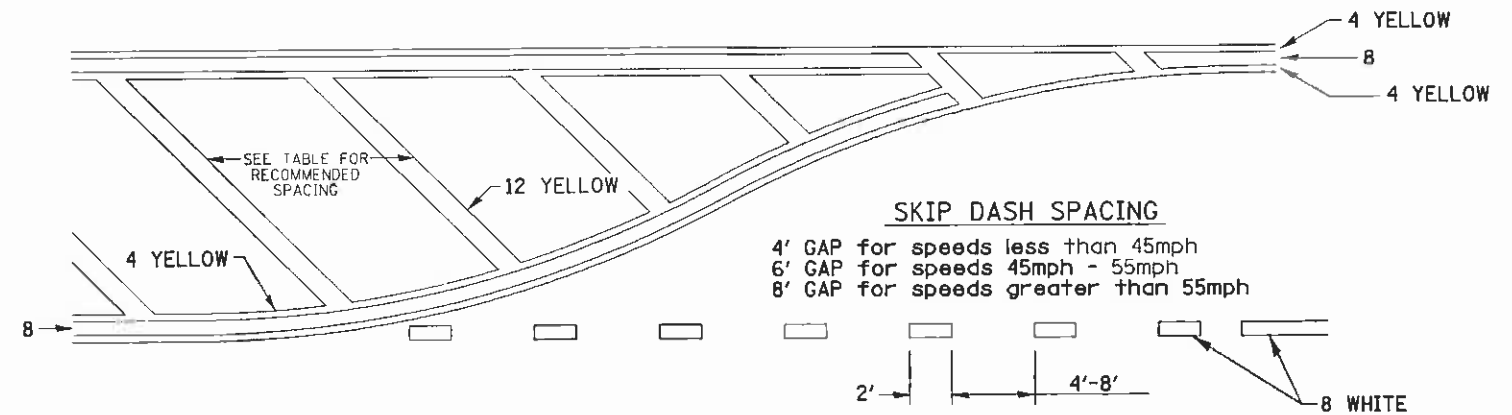
## ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

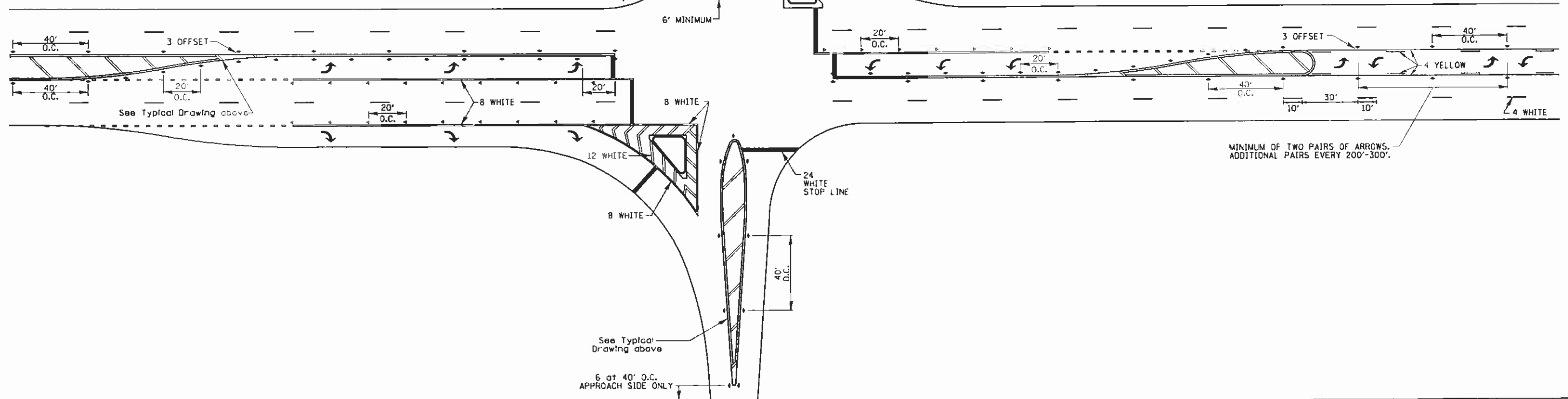
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

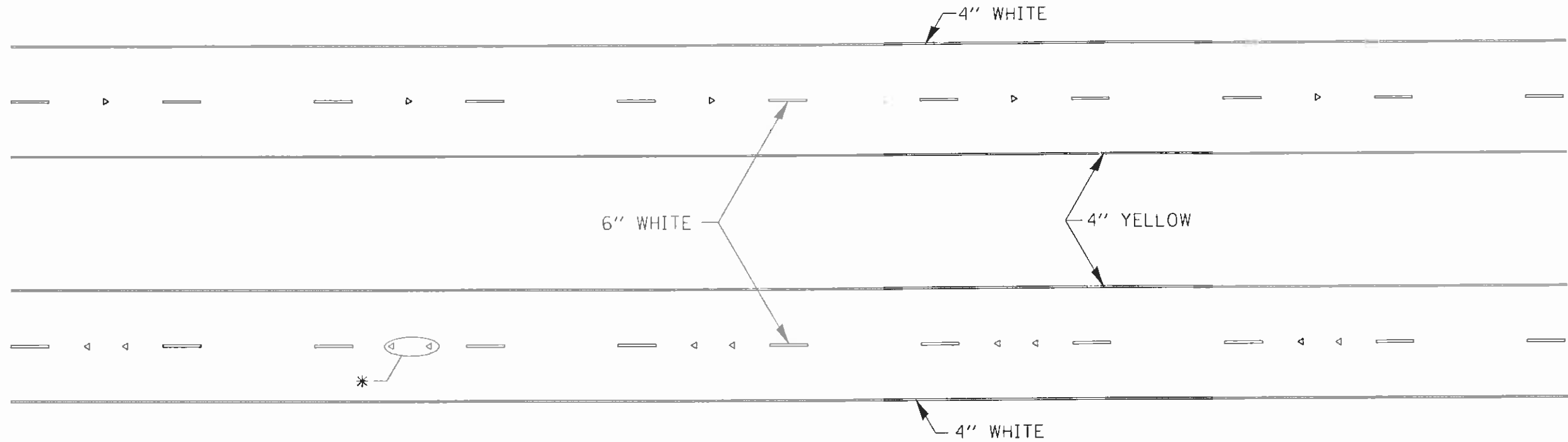
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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.



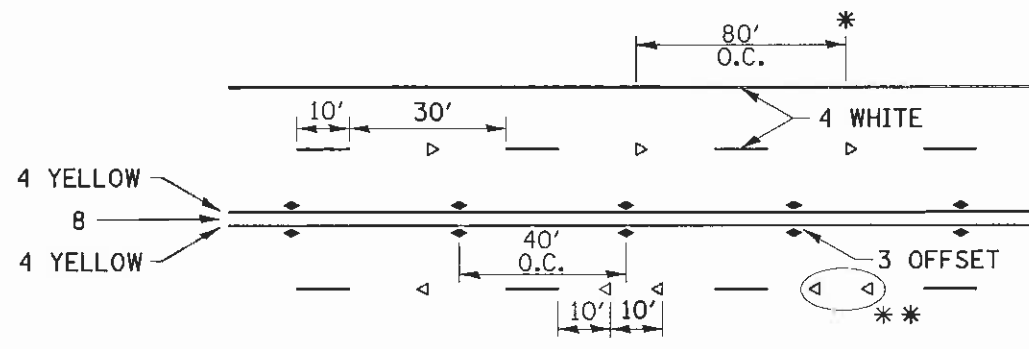
FILE NAME : J:\182703.1-39\CADD Sheets\0264473-11-5\041.dgn	USER NAME : IDOT	DESIGNED -	REVISED - 10-18-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.P. RTE. 39	SECTION D2 DECK REPAIR 2013-1	COUNTY OGLE	TOTAL SHEETS 32	SHEET NO. 30
PLOT SCALE = 58.0000' / IN.	CHECKED -	REVISED -	SCALE:					SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 64H73			
PLOT DATE = 5/30/2012	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
								TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3				

# TYPICAL PAVEMENT MARKINGS



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

## MULTI-LANE / DIVIDED

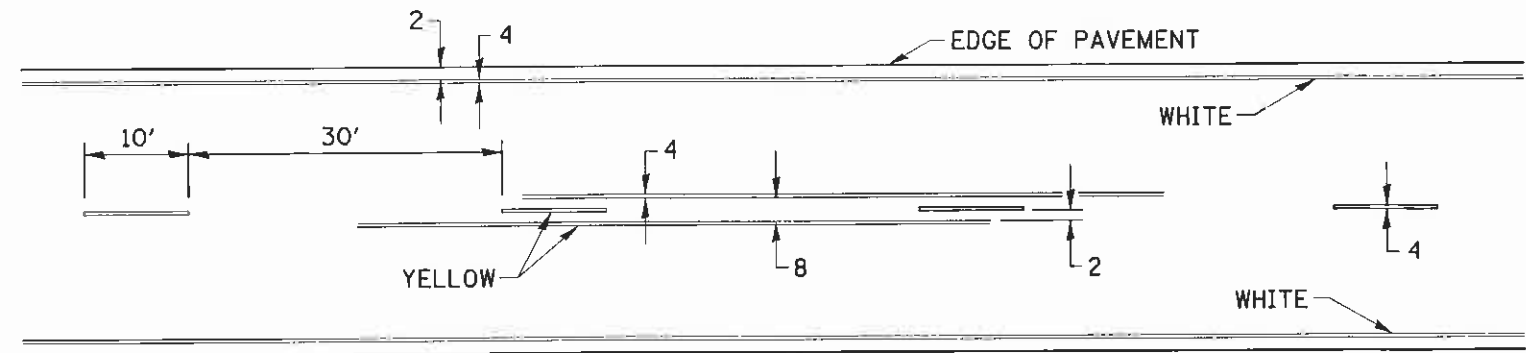


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000

## 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

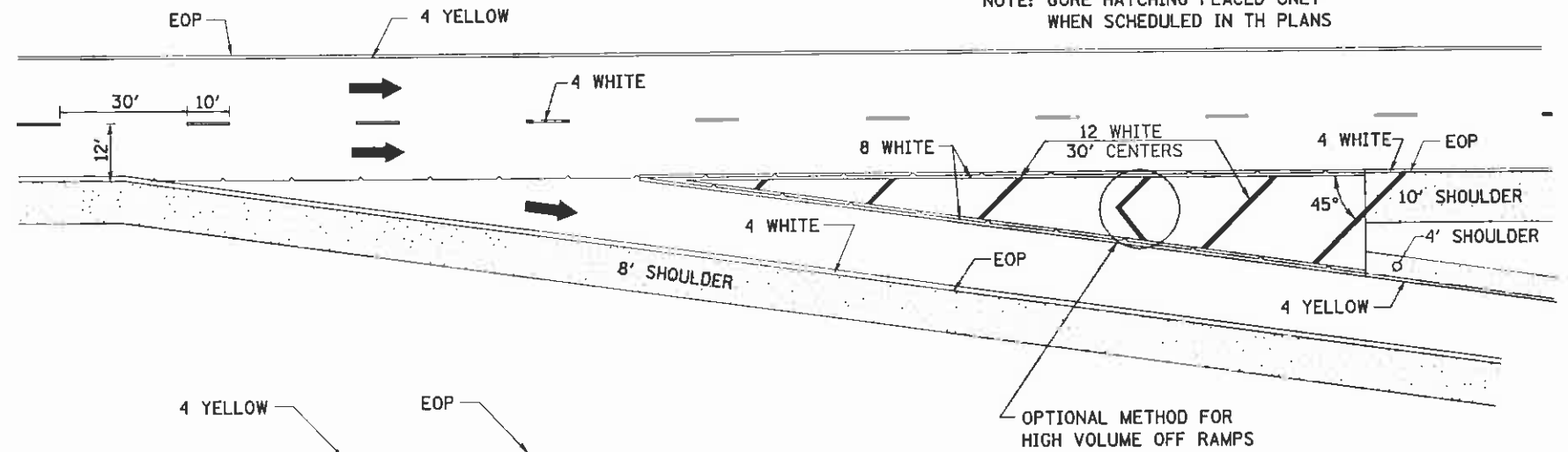
FILE NAME : D:\102703.1-39\CADDD Sheets\0264H73-sh1-5041.Ltdg	USER NAME : IDOT	DESIGNED -	REVISED - 10-18-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>				F.A.P. RTE. 39	SECTION D2 DECK REPAIR 2013-1	COUNTY OGLE	TOTAL SHEETS 32	SHEET NO. 31
PLOT SCALE = 50,000' / IN.	CHECKED -	REVISOR -	DATE -		SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 64H73				
PLOT DATE = 5/30/2012	DATE -	REVISOR -	DATE -		<b>TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3</b>								
<b>11 1</b>													



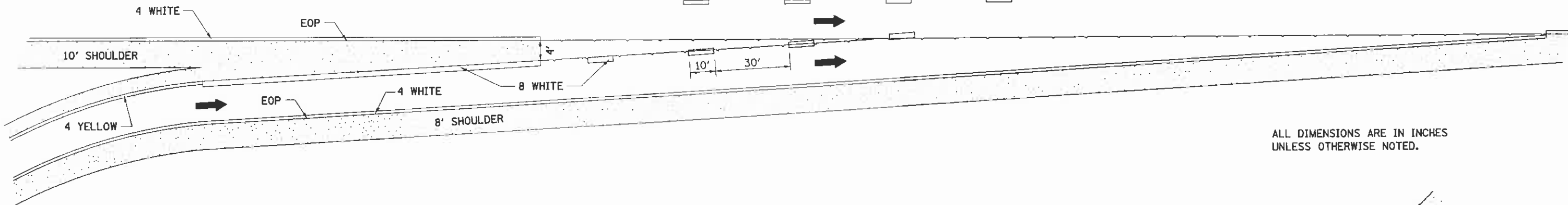
# PAINING DETAILS

## EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN TH PLANS

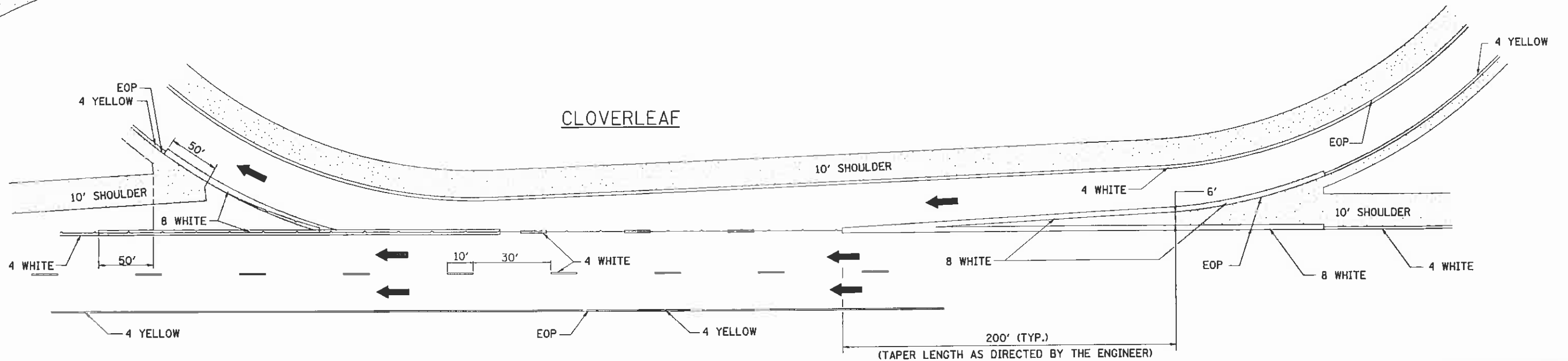


## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

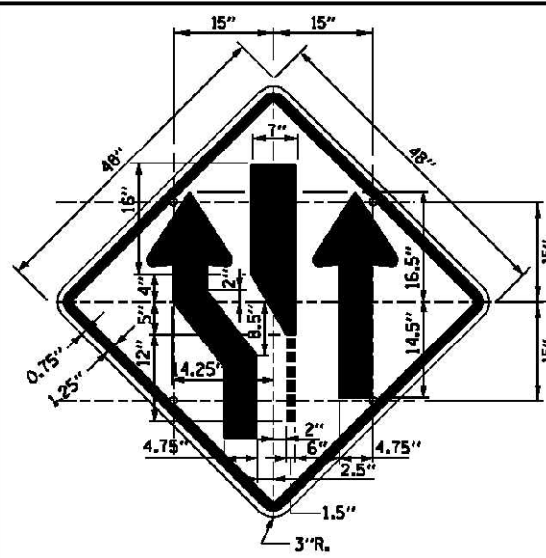
## CLOVERLEAF



FILE NAME -	USER NAME = IDOT	DESIGNED -	REVISED - 10-18-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IN\B2783.1-39\CADD Sheets\0264H73-sh1-S044.dgn	DRAWN -	REVISED -	39			02 DECK REPAIR 2013-1	OGLE	32	32	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64H73							
PLOT DATE = 5/30/2012	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
SCALE:						SHEET NO.	OF	SHEETS	STA.	TO STA.

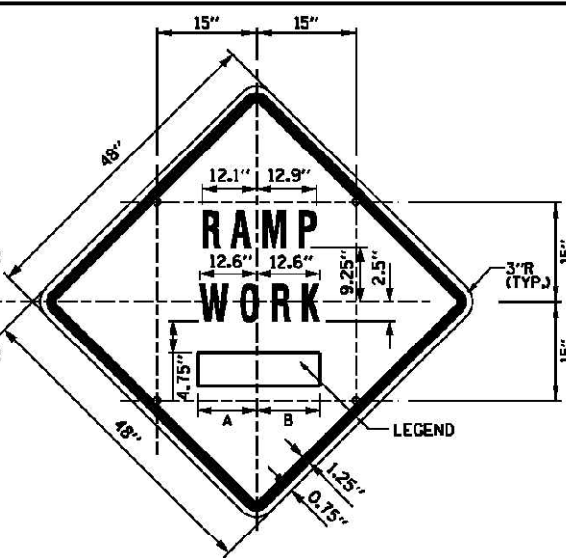
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	



**SIGN TS-1 (O)**

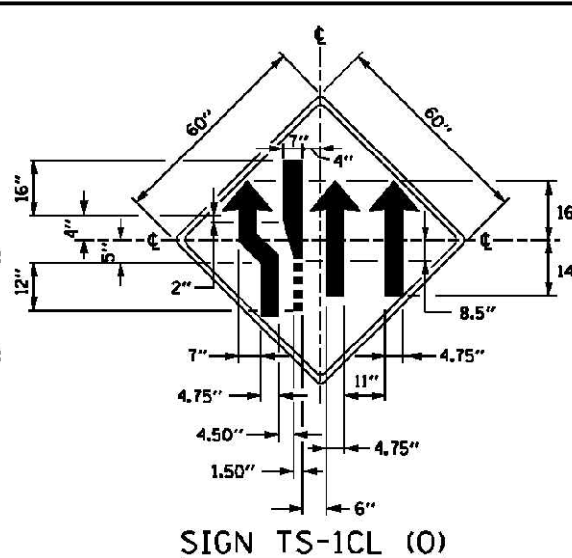
COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND SYMBOL - BLACK  
 SIZE: 48"x48"  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN  
 NOTE: SIGN TS-1L IS SHOWN; REVERSE SYMBOL FOR SIGN TS-1R



**SIGN TS-2 (O)**

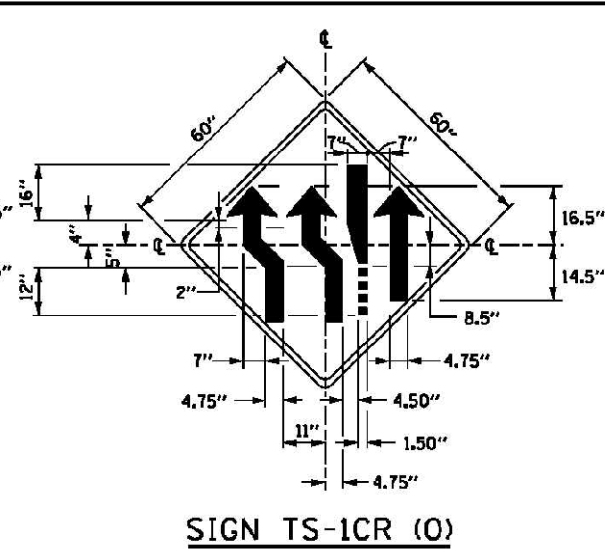
COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND SYMBOL - BLACK  
 SIZE: 48"x48"  
 LETTERING: 7" FEDERAL SERIES D  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN

SIGN NO.	LEGEND	A	B
TS-2A	AHEAD	15.50"	15.50"
TS-2B	500 FT	14.25"	15.13"
TS-2C	1000 FT	14.88" L2	15.75" L2
TS-2D	1500 FT	14.88" L2	15.75" L2
TS-2E	1/2 MILE	15.75" L3	15.75" L3
TS-2F	1 MILE	13.06"	13.06"



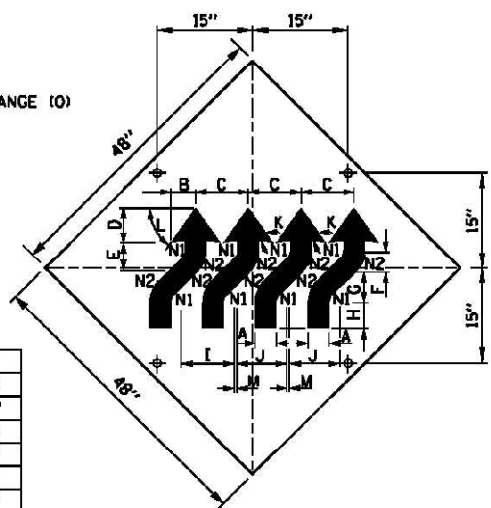
**SIGN TS-1CL (O)**

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND SYMBOL - BLACK  
 (NON-REFLECTORIZED)



**SIGN TS-1CR (O)**

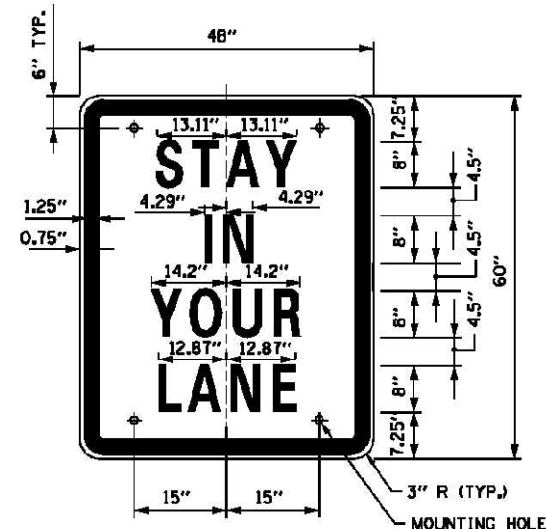
COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND SYMBOL - BLACK  
 (NON-REFLECTORIZED)



**SIGN WI-4dR (O)**

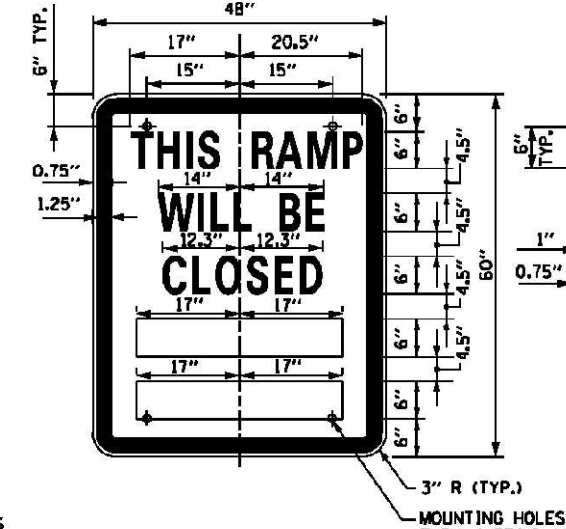
A	4 1/2"
B	5 3/4"
C	12 1/2"
D	7 3/4"
E	6 1/2"
F	4 1/2"
G	6 1/2"
H	6"
I	12 3/4"
J	12"
K	45°
L	55°
M	0 3/4"
N1	2"
N2	6 1/2"

COLOR: BACKGROUND, FLUORESCENT ORANGE (O)  
 TYPE A REFLECTIVE SHEETING PER STANDARD SPECIFICATIONS (\*A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x48"  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN.



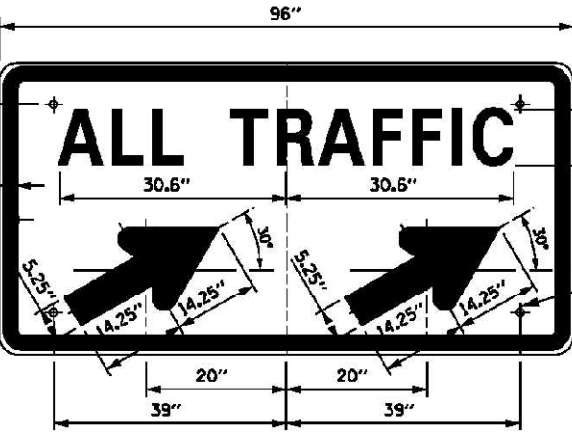
**SIGN TS-3**

COLOR: BACKGROUND - WHITE (REFLECTORIZED)\*A  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x60"  
 LETTERING: LEGEND - 8" FEDERAL SERIES D  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN



**SIGN TS-4**

COLOR: BACKGROUND - WHITE (REFLECTORIZED)\*A  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x60"  
 LETTERING: LEGEND - 6" FEDERAL SERIES C  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN



**SIGN TS-5a & TS-5b**

COLOR: BACKGROUND - WHITE (REFLECTORIZED)\*A  
 BORDER AND LETTERS - BLACK  
 ARROW - BLACK  
 SIZE: 96"x48"  
 LETTERING: 10" FEDERAL SERIES D  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN  
 NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE LEGEND "A" FOR "B" FOR SIGN TS-5b

**NOTES:**

- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.  
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.  
 (\*A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
- DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:  
 L1 SPACING REDUCED BY 25%  
 L2 SPACING REDUCED BY 40%  
 L3 SPACING REDUCED BY 50%

APPROVED: *Paul Kovacs*  
 DATE: 5-1-2009

**RAMP CLOSURE ADVANCE INFORMATION SIGN**

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.

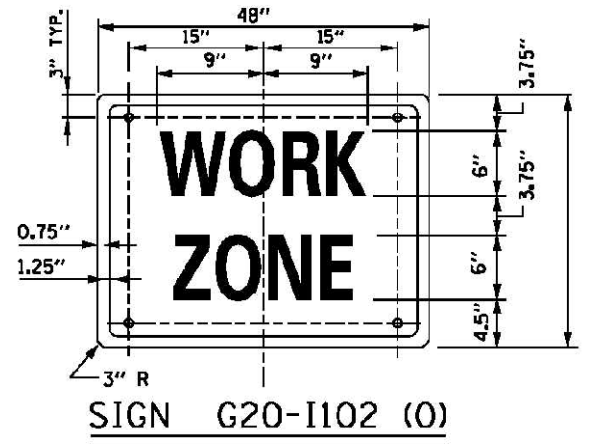


DATE	REVISIONS
5-1-2009	DELETED FLASHING ARROW BOARDS
1-1-2011	ADDED SIGN COLOR DESIGNATION

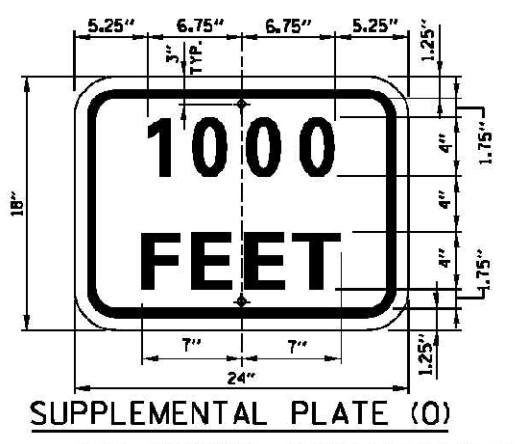
CONSTRUCTION SIGNS	
STANDARD E1-02	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

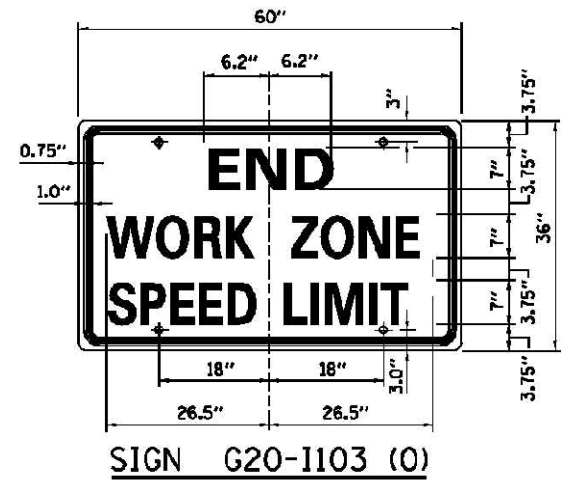
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



**SIGN G20-1102 (O)**  
 COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x24"  
 LETTERING: 6" FEDERAL SERIES C,  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN ON SIGN G20-2A



**SUPPLEMENTAL PLATE (O)**  
 COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND LETTERS - BLACK  
 SIZE: 24"x18"  
 LETTERING: 4" FEDERAL SERIES D  
 MOUNTING HOLES: 1/8" DIA.

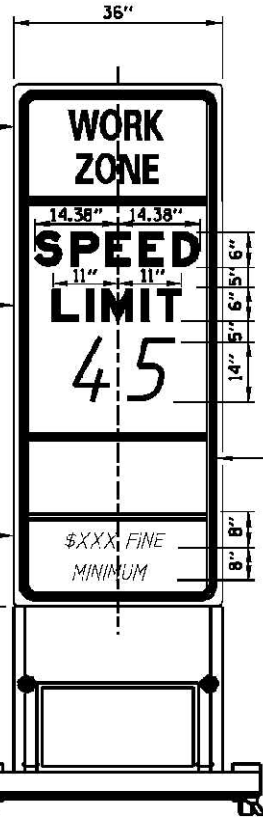


**SIGN G20-1103 (O)**  
 COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND LETTERS - BLACK  
 SIZE: 60"x36"  
 LETTERING: 6" FEDERAL SERIES C,  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN

"WORK ZONE"  
 W21-1115(O)-3618  
 (BLACK ON FLUORESCENT ORANGE (O))

"SPEED LIMIT XX"  
 R2-1-3648  
 (BLACK ON WHITE) (\*A)  
 \*\* 45 OR 55 MPH

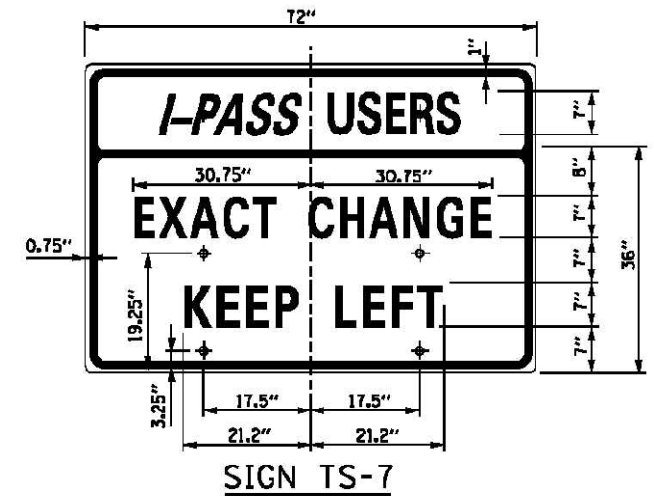
"XXX FINE MINIMUM"  
 R2-1106  
 (BLACK ON WHITE) (\*A)



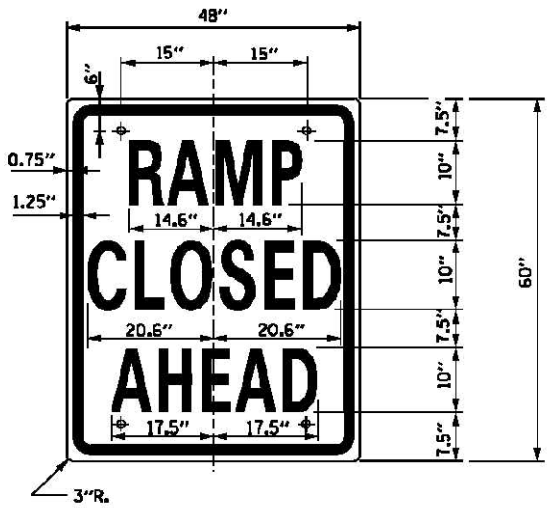
**WORK ZONE SPEED LIMIT SIGN ASSEMBLY**

**GENERAL NOTES:**

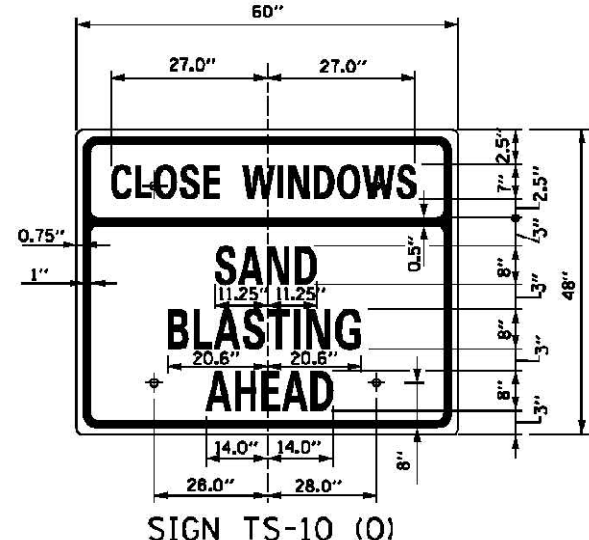
1. ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THE GUIDE EXCEPT WHERE NOTED.
2. SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
3. SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.  
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.  
 (\*A)-REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.



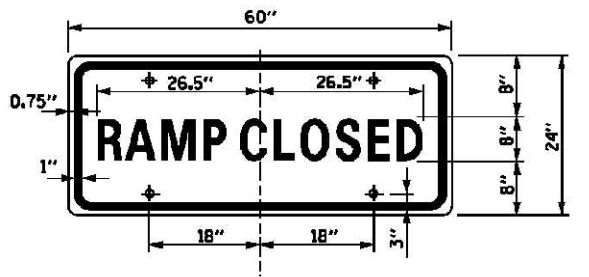
**SIGN TS-7**  
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\*A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 72"x36"  
 LETTERING: 7" FEDERAL SERIES C  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



**SIGN TS-9**  
 COLOR: BACKGROUND - WHITE (REFLECTORIZED)  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x60"  
 LETTERING: 10" FEDERAL SERIES C  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



**SIGN TS-10 (O)**  
 COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND LETTERS - BLACK  
 SIZE: 60"x48"  
 LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



**SIGN TS-6**  
 COLOR: BACKGROUND - WHITE (REFLECTORIZED)  
 BORDER AND LETTERS - BLACK  
 SIZE: 60"x24"  
 LETTERING: 8" FEDERAL SERIES C  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN

APPROVED: *Paul Kovacs* DATE 5-1-2009  
 ENGINEER'S

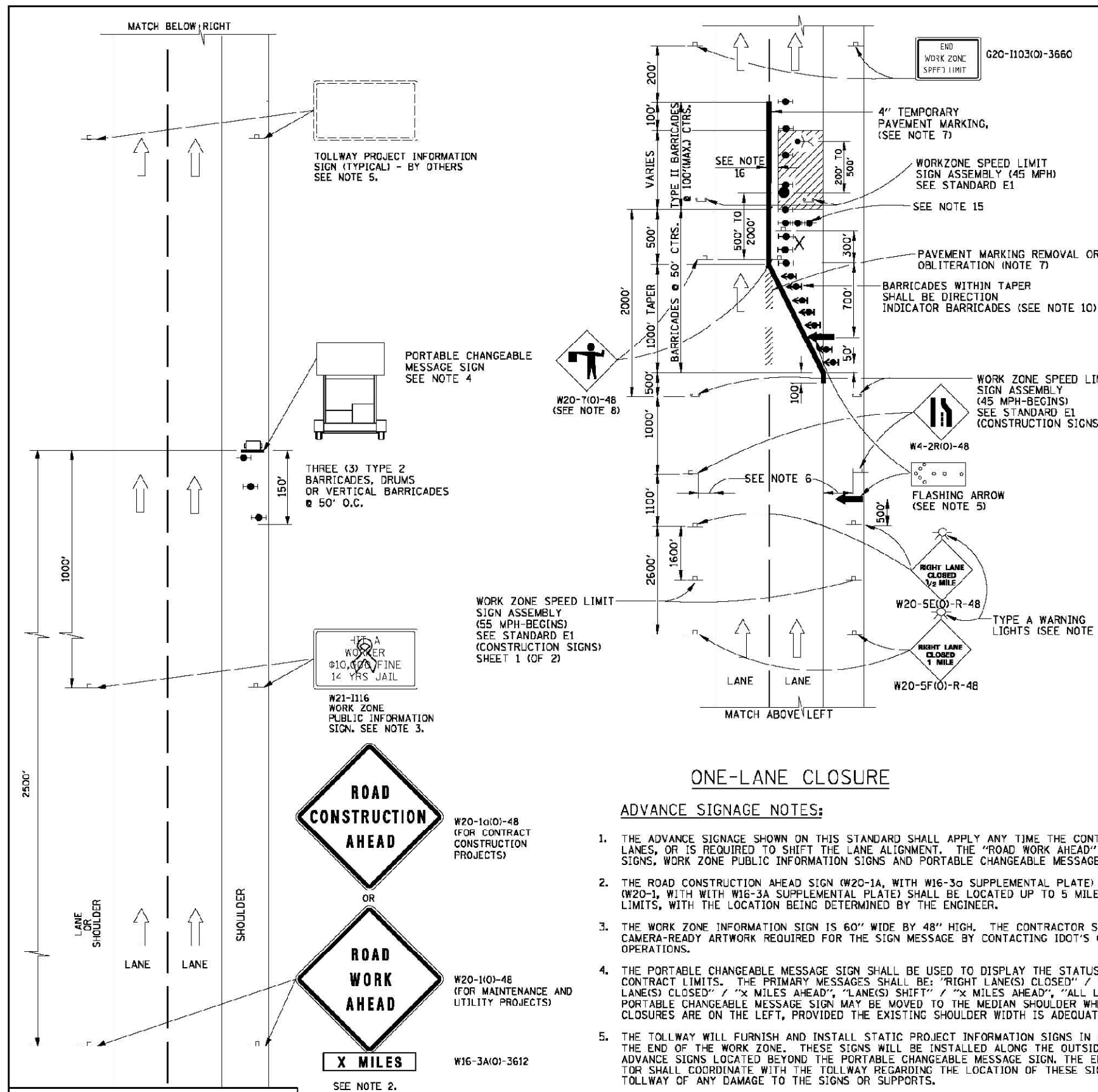
**Illinois Tollway**  
 Open Roads for a Better Future

**CONSTRUCTION SIGNS**

**STANDARD E1-02**

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	



- ### LANE CLOSURE NOTES:
- IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.
  - LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
  - THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.
  - FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND 1/2 MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT-ONLY CLOSURES, THE LIGHTS MAY BE OMITTED.
  - FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.
  - CONSTRUCTION SIGNS SHALL GENERALLY BE POST-MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE. IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.
  - PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.
  - WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY, PER THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
  - WHENEVER WORKERS ARE PRESENT AND WITHIN 12' OR LESS TO MOVING TRAFFIC, WORK ZONE SPEED LIMIT SIGN ASSEMBLIES, SHALL BE PLACED ADJACENT TO THE OPEN TRAFFIC LANE(S). WORK ZONE SPEED SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY PER THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
  - DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.
  - FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-0".
  - CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS, WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.
  - BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.
  - SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.
  - CHECK BARRICADES SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AND AT THE SHOULDER AT 1000 FOOT CENTERS.
  - A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.

### ONE-LANE CLOSURE

#### ADVANCE SIGNAGE NOTES:

- THE ADVANCE SIGNAGE SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
- THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3a SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
- THE WORK ZONE INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
- THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED", "X MILES AHEAD", "LEFT LANE(S) CLOSED" / "X MILES AHEAD", "LANE(S) SHIFT" / "X MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
- THE TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

### SYMBOLS

↑	ARROW BOARD
▨	WORK AREA
	SIGN
⬆	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
⬆	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
●	FLAGGER WITH TRAFFIC CONTROL SIGN
⚧	WORKER
X	LANE CLOSED

APPROVED: *Paul Kovacs* CHIEF ENGINEER DATE 5-1-2009

SHEET 1 OF 2

DATE	REVISIONS
5-1-2009	CHANGED TRAFFIC CONTROL DIMENSIONS
1-1-2011	UPDATED ROADWAY SIGNAGE
1-1-2011	CHANGED SYMBOL DESIGNATION, REVISED NOTES

LANE CLOSURE DETAILS

STANDARD E2-02

FILE NAME = D264H73-shr-STDE2-02.dgn  
 PLOT DATE = 9/20/2012  
 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)372-8274

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

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

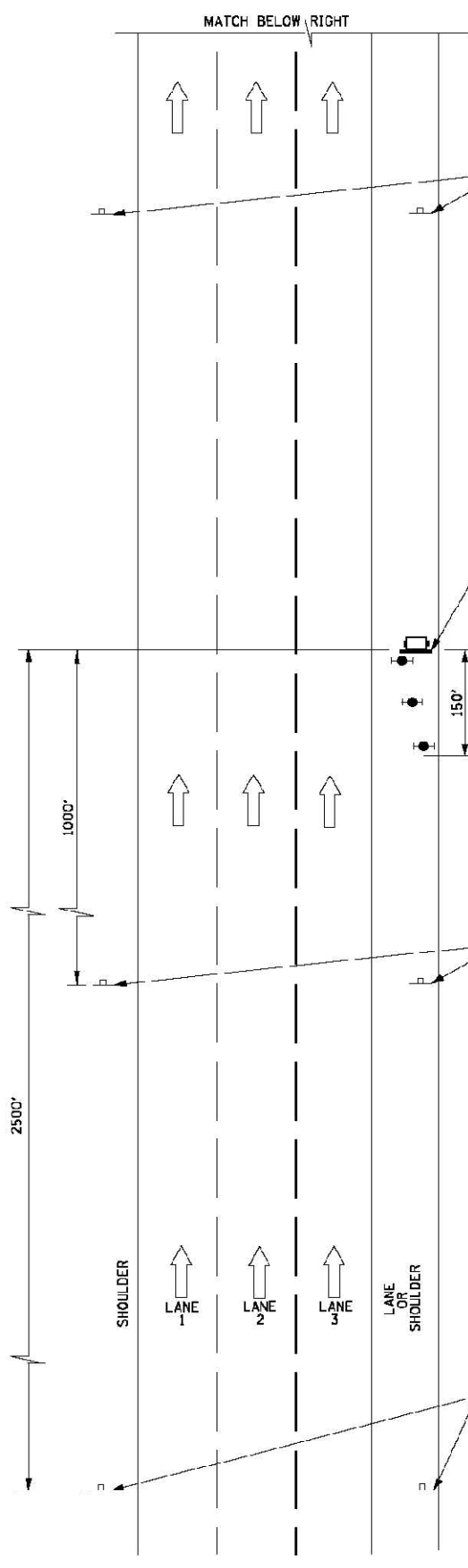
**TOLLWAY STANDARD E2-02**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	32C
				CONTRACT NO. 64H73
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
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TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	

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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
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TOLLWAY PROJECT INFORMATION SIGN (TYPICAL) - BY OTHERS SEE NOTE 5.

PORTABLE CHANGEABLE MESSAGE SIGN SEE NOTE 4.

THREE (3) TYPE 2 BARRICADES, DRUMS OR VERTICAL BARRICADES @ 50' O.C.

W21-1116 WORK ZONE PUBLIC INFORMATION SIGN. SEE NOTE 3.

W20-1a(0)-48 (FOR CONTRACT CONSTRUCTION PROJECTS)

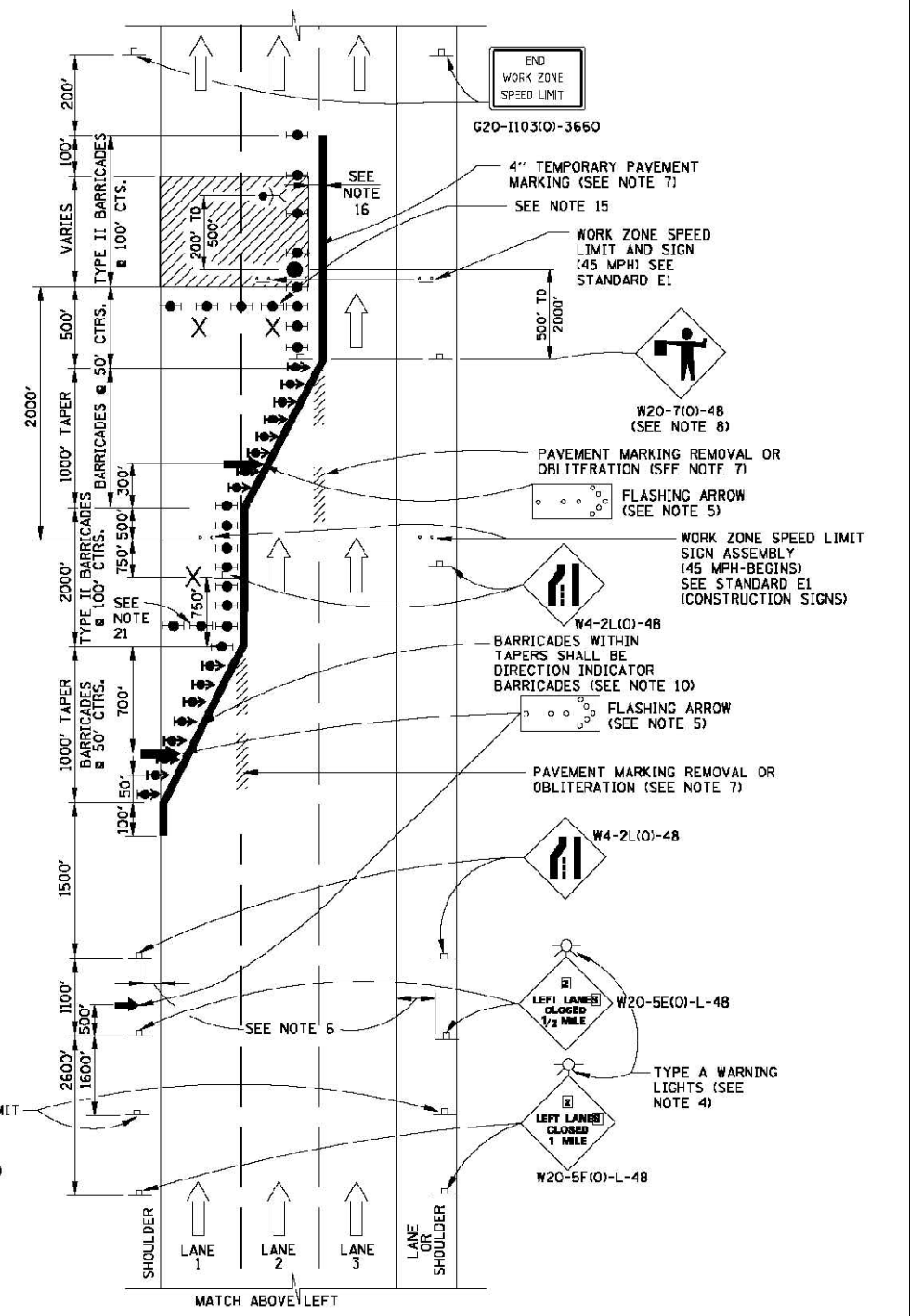
W20-1(0)-48 (FOR MAINTENANCE AND UTILITY PROJECTS)

W16-3a(0)-3612

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED

APPROVED: *Paul Kovacs* CHIEF ENGINEER DATE 5-1-2009



G20-1103(0)-3660

SEE NOTE 16

SEE NOTE 15

SEE NOTE 21

SEE NOTE 5

SEE NOTE 6

SEE NOTE 5

SEE NOTE 5

SEE NOTE 5

SEE NOTE 5

SEE NOTE 5

**TWO-LANE CLOSURE**

SEE SHEET 1 (OF 2) IN THIS SERIES FOR GENERAL NOTES

SHEET 2 OF 2

**Illinois Tollway**  
Open Roads for a Better Future

LANE CLOSURE DETAILS

STANDARD E2-02

FILE NAME = D264H73-sht-STOE2-02.SHT2.dgn  
PLOT DATE = 9/20/2012  
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)372-8274

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

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

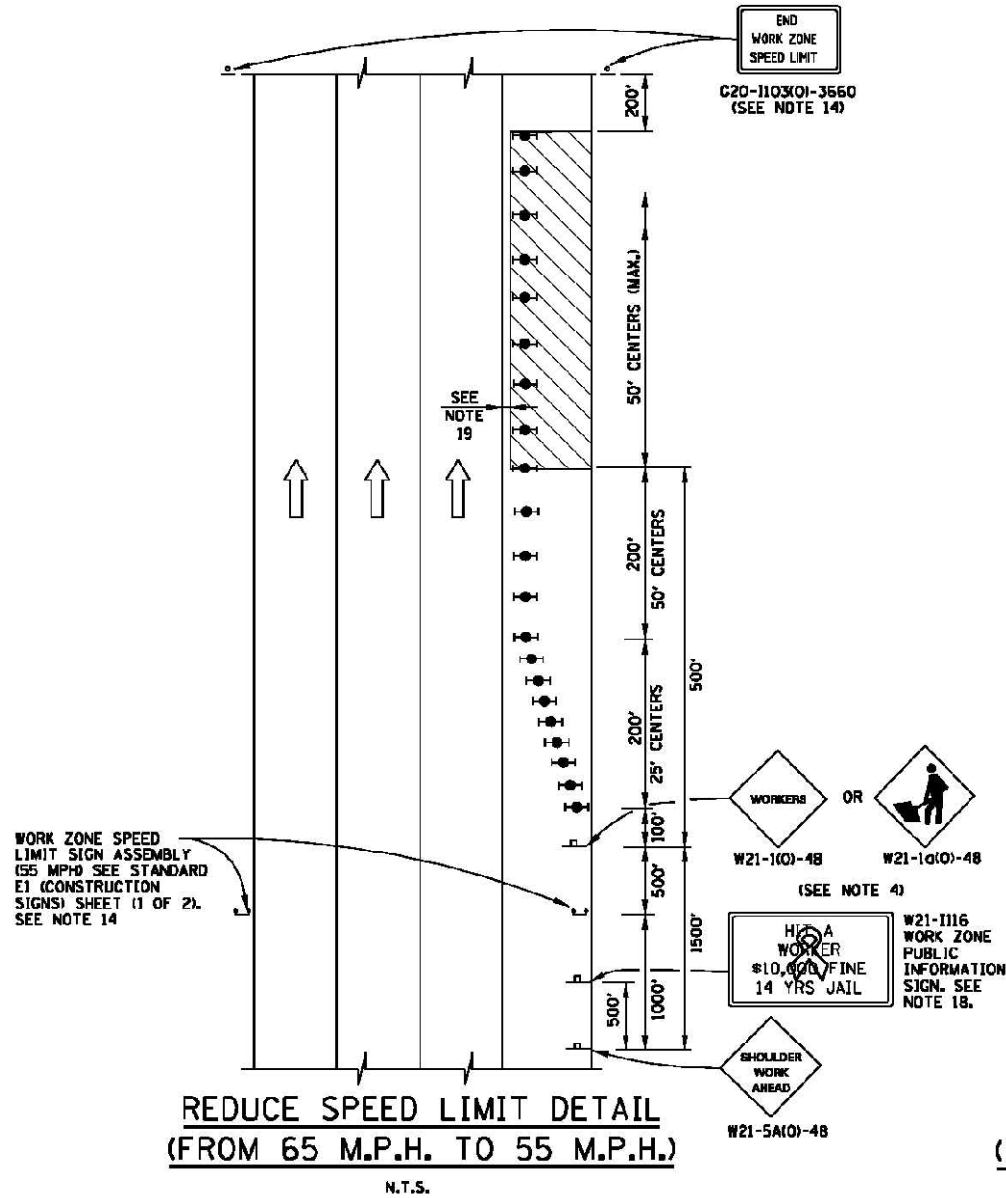
**TOLLWAY STANDARD E2-02**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	32D
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 64H73	

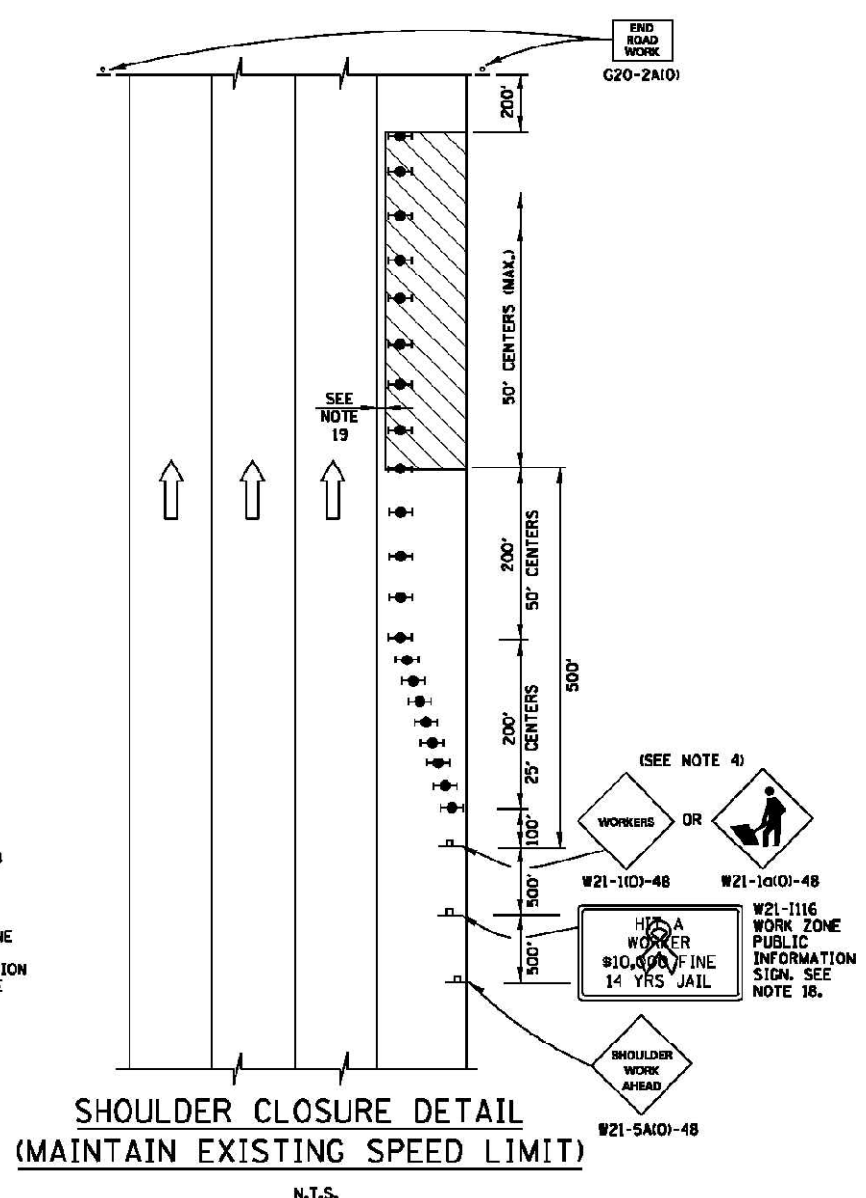
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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**REDUCE SPEED LIMIT DETAIL  
(FROM 65 M.P.H. TO 55 M.P.H.)**

N.T.S.



**SHOULDER CLOSURE DETAIL  
(MAINTAIN EXISTING SPEED LIMIT)**

N.T.S.

**GENERAL NOTES:**

1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN FOR THE SECOND SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II WITH STEADY BURNING LIGHT, TYPE C SHALL BE USED.
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY (55 MPH - BEGINS) SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE SIGN ASSEMBLY SHALL NOT BE UTILIZED WHEN WORKERS ARE BEHIND A TEMPORARY (MOVABLE BARRIER) WALL.
12. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT OR CLOSE TO MOVING TRAFFIC.
13. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
14. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
15. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
16. "WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
17. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER.
18. THE WORK ZONE INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
19. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.

**SYMBOLS**

- WORK AREA
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT



DATE	REVISIONS
5-1-2009	MODIFIED SHOULDER CLOSURE DETAILS
	-MAINTAIN EXISTING SPEED LIMIT
	-SPEED REDUCTION
	-MOVED "TEMPORARY CORE DETAILS" TO E5
1-1-2011	CHANGED SYMBOL DESIGNATION
	REVISED NOTES

SHOULDER CLOSURE DETAILS	
STANDARD E3-02	

APPROVED *Paul Kovacs* CHIEF ENGINEER DATE 5-1-2009

FILE NAME = 0264H73-sht-STDE3-02.dgn  
 PLOT DATE = 9/20/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
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 PHONE: (312)372-2023 FAX: (312)372-8274

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

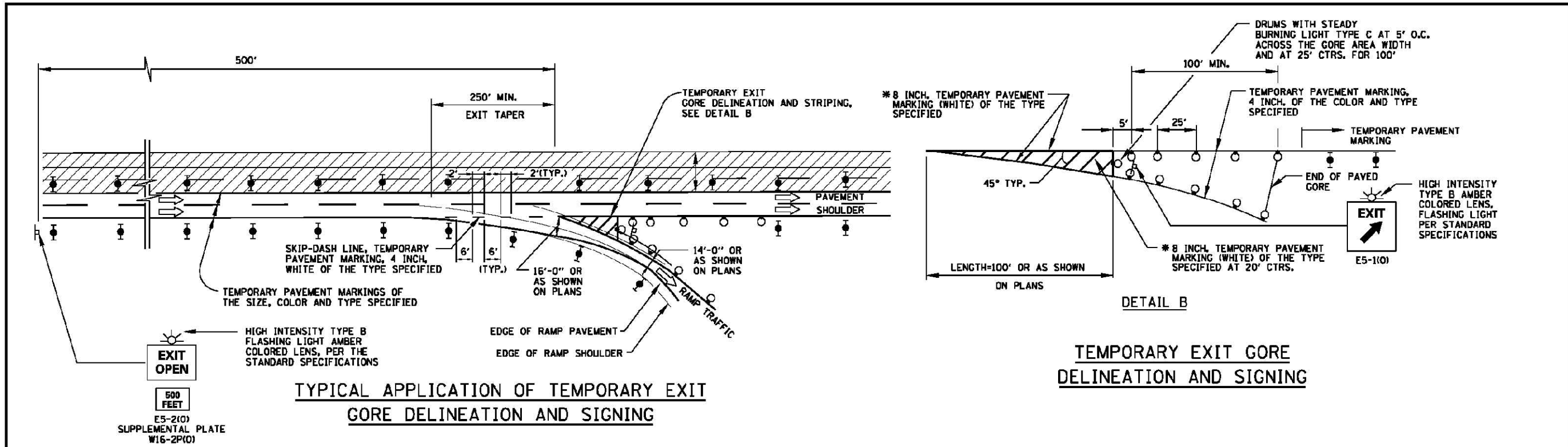
**TOLLWAY STANDARD E3-02**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	32E
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H73	

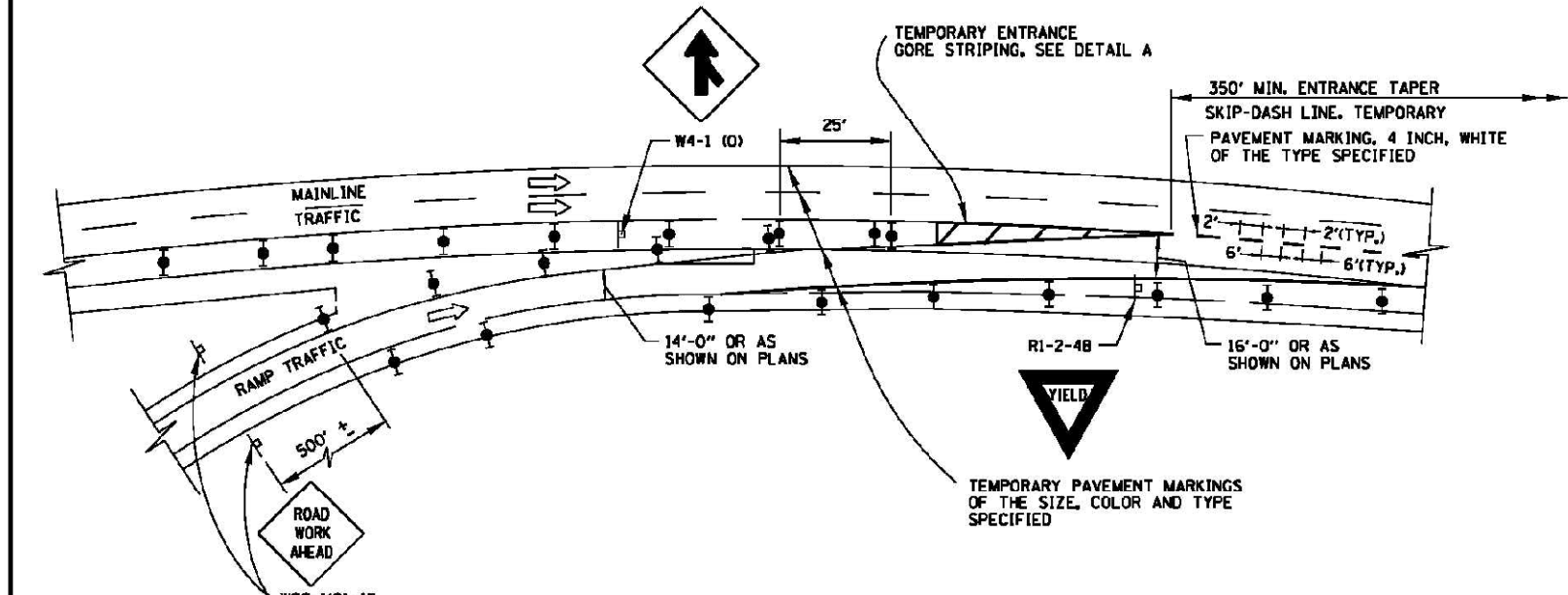
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**TYPICAL APPLICATION OF TEMPORARY EXIT GORE DELINEATION AND SIGNING**

**TEMPORARY EXIT GORE DELINEATION AND SIGNING**



**TYPICAL APPLICATION OF TEMPORARY ENTRANCE GORE DELINEATION AND SIGNING**

**TEMPORARY ENTRANCE GORE STRIPING**

**SYMBOLS**

- WORK AREA
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURNING LIGHT

\* 8 INCH TEMPORARY PAVEMENT MARKING IS TO BE MADE OF 2-TEMPORARY PAVEMENT MARKING 4 INCH, WHITE OF THE TYPE SPECIFIED.

*Paul Kovacs*  
 APPROVED..... CHIEF ENGINEER..... DATE 5-1-2009...

DATE	REVISIONS
1-1-2011	CHANGED SYMBOL DESIGNATION
2-7-2012	REVISED MERGE SIGN

**Illinois Tollway**  
*Open Roads for a Faster Future*

**TEMPORARY GORE DETAILS**

**STANDARD E5-02**