

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

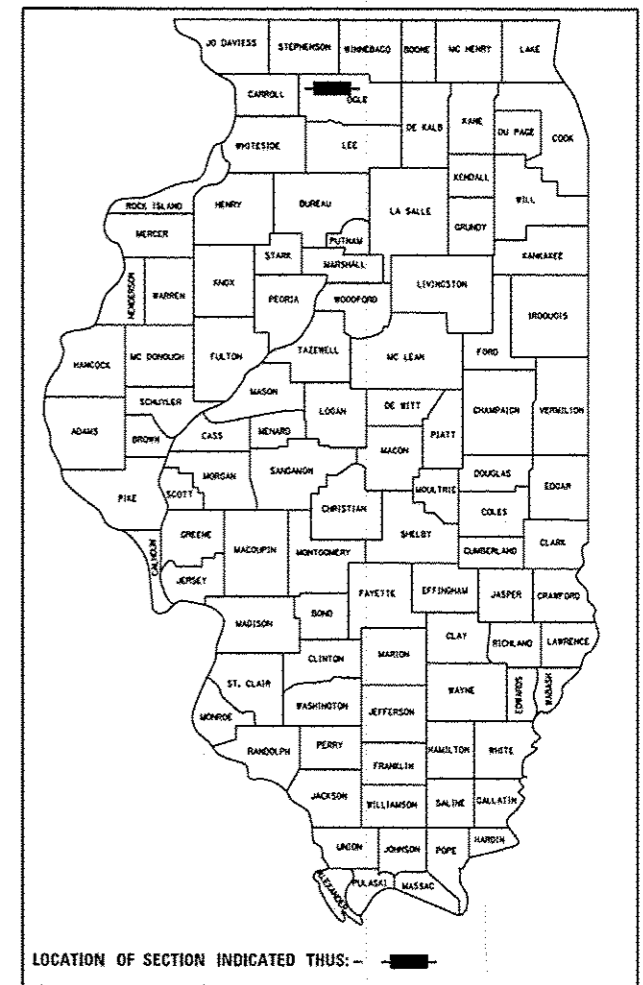
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 553 (IL 72)
SECTION D2 DECK REPAIR 2015-1
TYPE of IMPROVEMENT: BRIDGE REPAIR
OGLE COUNTY

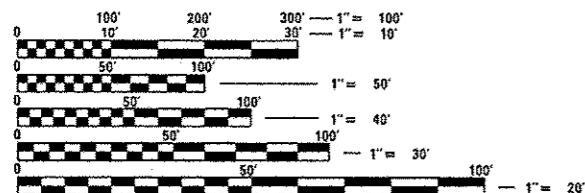
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	1
ILLINOIS CONTRACT NO.			64K41	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

D-92-061-14

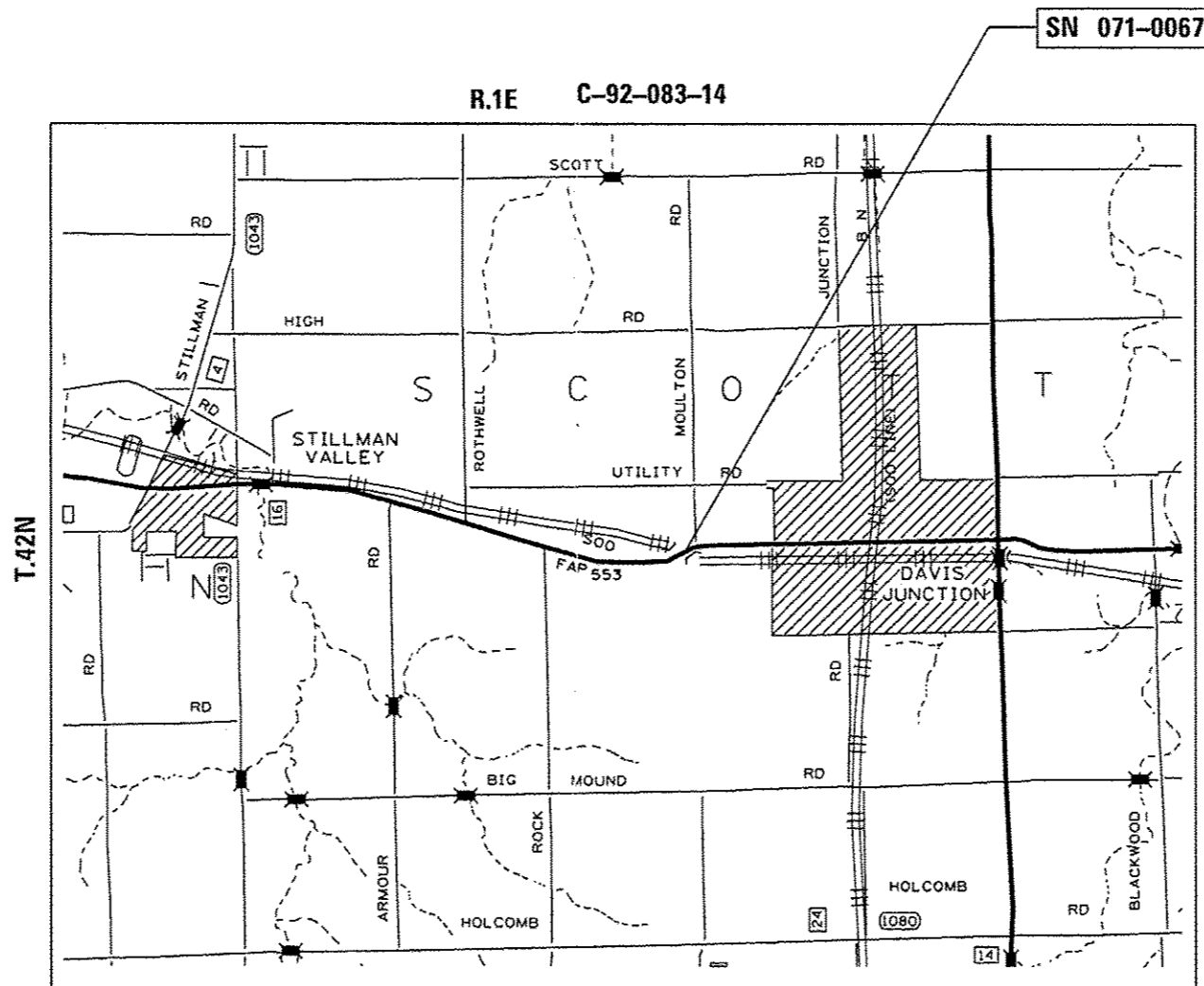


OGLE COUNTY - SCOTT TOWNSHIP - SECTION 21



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

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



PROJECT ENGINEER: DAVID DOSS (815) 284-5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64K41

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 5 2014
Paul A. Coeten
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30 2015
John D. Baranzelli
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30 2015
Omer Osman
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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STATE STANDARDS

000001 - 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL EQUIVALENTS OF AN INCH AND FOOT
701006 - 05	OFF ROAD OPERATIONS, 2L, 2W, 15'(4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011 - 04	OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201 - 04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311 - 03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321 - 14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326 - 04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901 - 04	TRAFFIC CONTROL DEVICES
704001 - 07	TEMPORARY CONCRETE BARRIER
720011 - 01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & 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 Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

ELECTRIC:

COMMONWEALTH EDISON COMPANY
ATTN: NORA FERNANDEZ (815) 490-2869
123 ENERGY AVENUE
ROCKFORD, IL 61109

GAS:

NICOR GAS CO.
ATTN: BRUCE KOPPANG (630) 388-3046
1844 FERRY ROAD
NAPERVILLE, IL 60563

TELEPHONE:

FRONTIER
ATTN: DONALD BELMORE (815) 544-6171
2239 NEWBURG ROAD
BELVIDERE, IL 61008

COMMUNICATIONS:

IFIBER
ATTN: LANCE SANDY (815) 753-6075
3100 SYCAMORE ROAD
DEKALB, IL 60115

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Hazards behind Temporary Concrete Barrier Wall
No materials, equipment, vehicles or other hazards shall be within 3'-6" of the temporary concrete barrier wall, measured from the closest point of the barrier wall perpendicular to the hazard. Equipment that is actively working with 3'-6" of the barrier wall may be allowed for a short duration, if approved by the engineer, required for the work activity, and there is not another method to complete the work.

FILE NAME =	USER NAME = dcaadd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
G:\BR\Draw\0916441 Repairs SN 071-0067	C:\AD0\02\shd-cover.dgn	DRAWN -	REVISED -			553	D2 DECK REPAIR 2015-1	OGLE	20	2	
Default	PLOT SCALE = 48.0000' / 1" =	CHECKED -	REVISED -			CONTRACT NO. 64K41					
	PLOT DATE = Thu Dec 04 13:45:13 2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____

SUMMARY OF QUANTITIES

**0014
100%
State Funds**

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
20200500	EARTH EXCAVATION (WIDENING)	CU YD	93
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SQ YD	239
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	3
42001300	PROTECTIVE COAT	SQ YD	35
50102400	CONCRETE REMOVAL	CU YD	13.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	13.0
50300260	BRIDGE DECK GROOVING	SQ YD	671
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,280
50800515	BAR SPLICERS	EACH	20
52000110	PREFORMED JOINT STRIP SEAL	FOOT	88
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1

14

Rev.

FILE NAME : G:\BR\Draw\Ogle\64K41 Repair SH 071-0007	USER NAME : dmsdd CADD\02\sh\cover.dgn	DESIGNED - _____ DRAWN - _____	REVISED - _____ REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 553	SECTION D2 DECK REPAIR 2015-1	COUNTY OGLE	TOTAL SHEETS 20	SHEET NO. 3
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SUMMARY OF QUANTITIES

0014
100%
State Funds

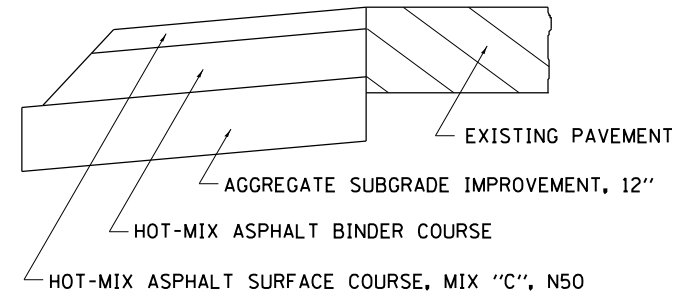
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	2,300
70300280	TEMPORARY PAVEMENT MARKING LINE, 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. FT	815
70400100	TEMPORARY CONCRETE BARRIER	FOOT	493
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	455
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
70600241	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
70600341	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
78300100	PAVEMENT MARKING REMOVAL	SQ. FT	173
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4"	SQ. YD	676
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ. YD	676
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD	10
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD	10
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

Rev.

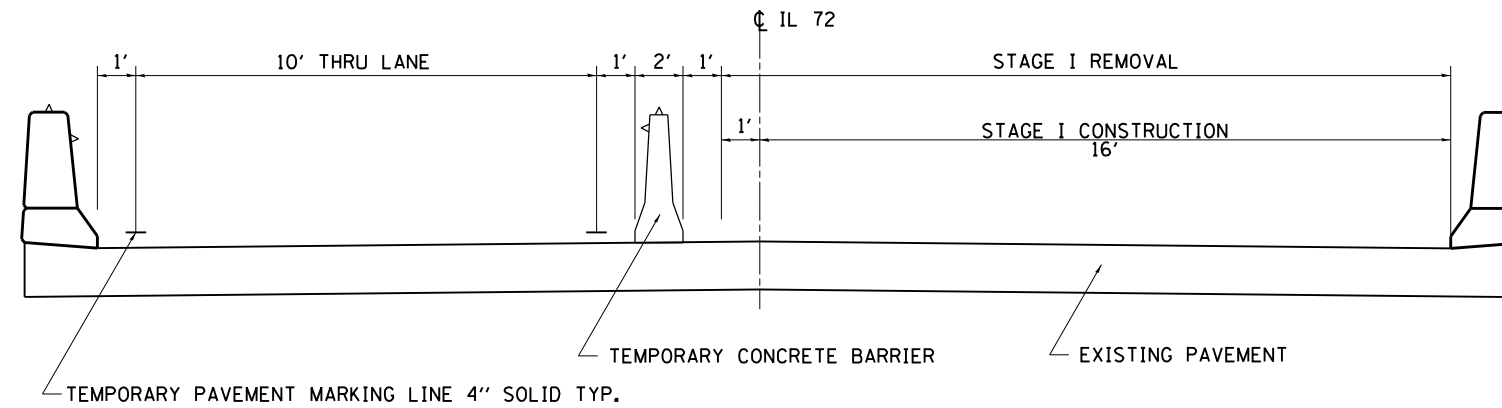
STAGINIG TYPICALS

PRE-STAGE SHOULDER WIDENING

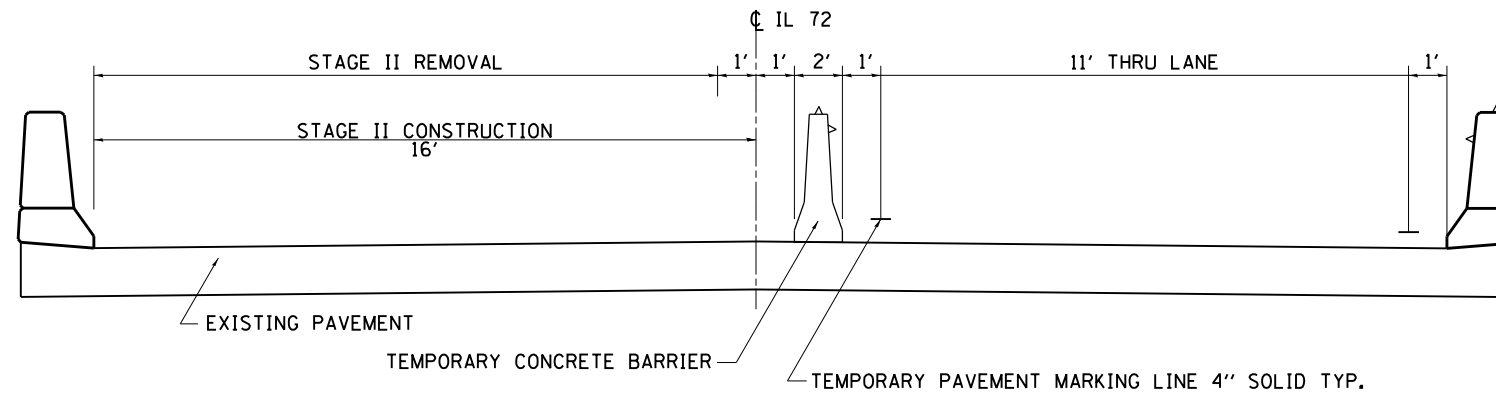
STA 1670+61 - 1671+86 WB
 STA 1673+80 - 1675+32 WB
 STA 1670+61 - 1672+08 EB
 STA 1674+02 - 1675+50 EB



STAGE I (SN 071-0067 OVER DM&E RAILROAD)



STAGE II (SN 071-0067 OVER DM&E RAILROAD)



FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
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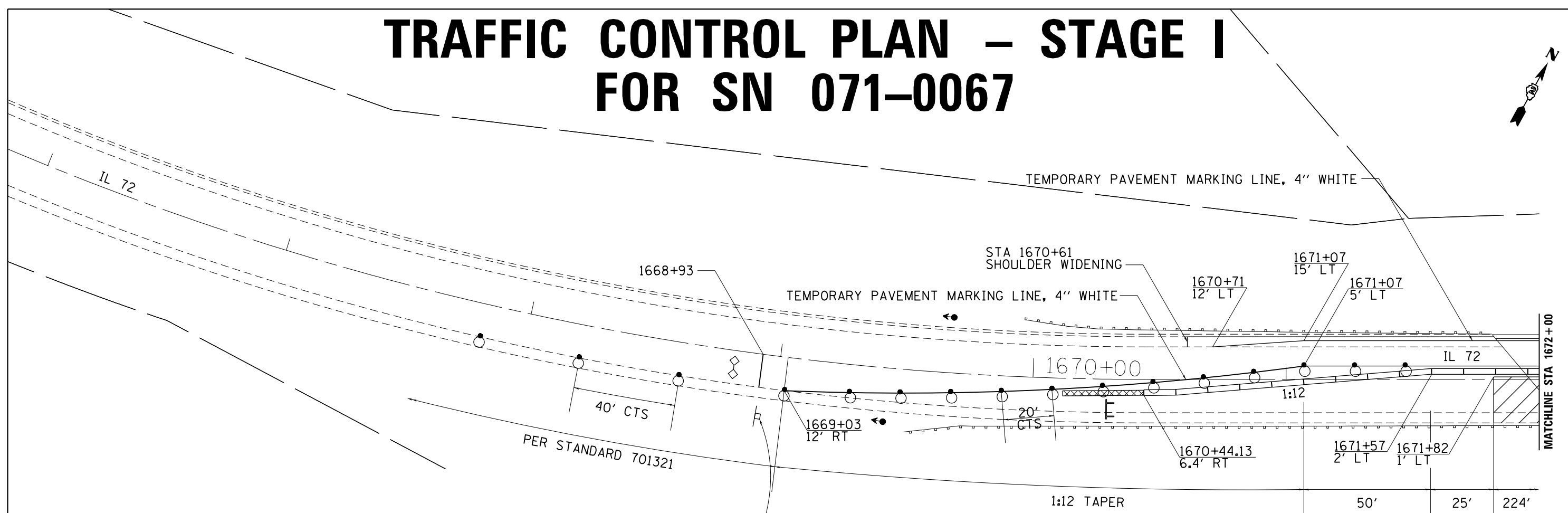
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	5
CONTRACT NO. 64K41			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN – STAGE I FOR SN 071-0067



70400100 TEMPORARY CONCRETE BARRIER

STAGE I 493 FT

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STAGE II 455 FT

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STAGE I 1 EACH

- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2

STAGE I 1 EACH

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

STAGE II 1 EACH

- IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 2

STAGE II 1 EACH

70300220 TEMPORARY PAVEMENT MARKING LINE 4"

STAGE I 1,094 FT
STAGE II 1,206 FT

70301000 WORKZONE PAVEMENT MARKING REMOVAL

STAGE I 365 SQ FT
STAGE II 450 SQ FT



R10-6A-2430

NOTES

See Traffic Control and Protection Standard 701321 for details not shown.

This Standard is used where, at any time, any vehicle, equipment, workers, or their activities will encroach on one lane of a bridge. Traffic signals and a positive barrier are required.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

All dimensions are in inches (millimeters) unless otherwise shown.

Barrier wall offsets are to the construction side of the barrier wall.

SYMBOLS

- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Work area
- Sign
- Type III barricade
- Traffic signal
- Detector loops
- Impact attenuator

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
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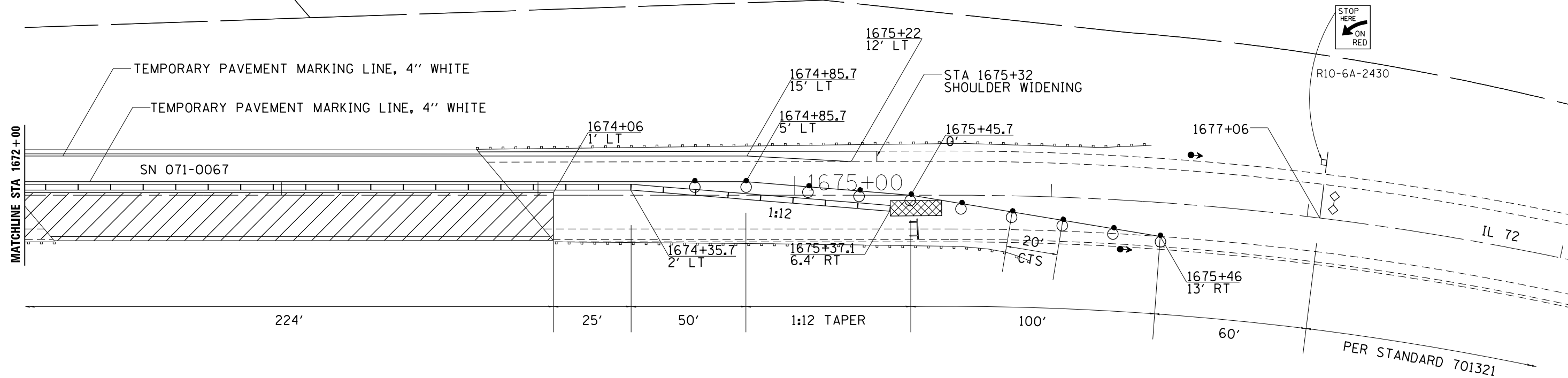
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN – STAGE I
FOR SN 071-0067

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	6
CONTRACT NO.			64K41	
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN – STAGE I FOR SN 071-0067



NOTES

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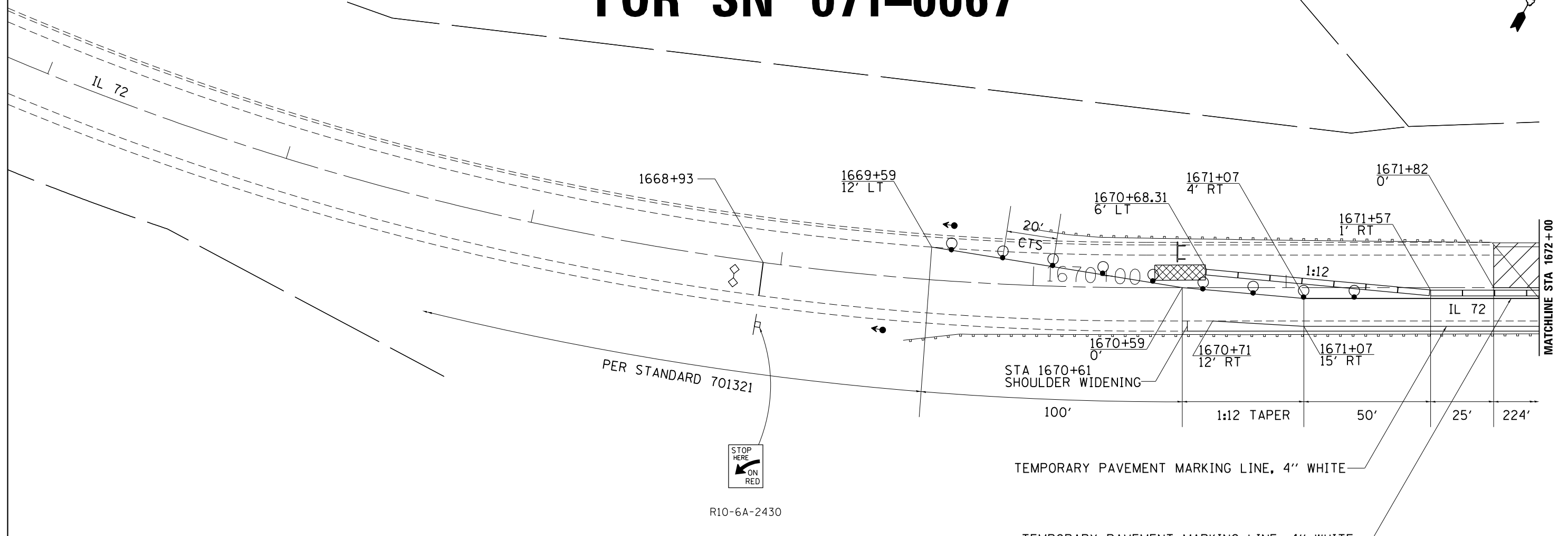
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SYMBOLS

- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Work area
- Sign
- Type III barricade
- Traffic signal
- Detector loops
- Impact attenuator

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL PLAN – STAGE I FOR SN 071-0067	F.A.P. RTE. 553	SECTION D2 DECK REPAIR 2015-1	COUNTY OGLE	TOTAL SHEETS 20	SHEET NO. 7		
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	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____									ILLINOIS FED. AID PROJECT
	PLOT DATE = Thu Dec 04 13:45:56 2014	DATE - _____	REVISED - _____									

TRAFFIC CONTROL PLAN – STAGE II FOR SN 071-0067



TEMPORARY PAVEMENT MARKING LINE, 4" WHITE

TEMPORARY PAVEMENT MARKING LINE, 4" WHITE

NOTES

See Traffic Control and Protection Standard 701321 for details not shown.

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SYMBOLS

- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Work area
- Sign
- Type III barricade
- Traffic signal
- Detector loops
- Impact attenuator

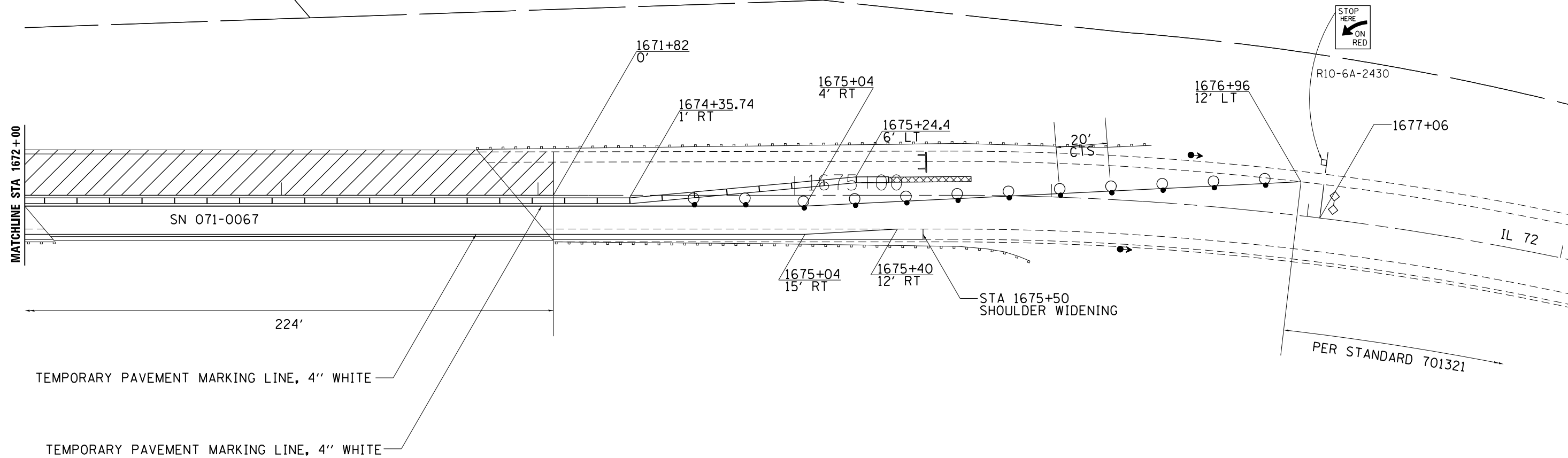
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	PLOT DATE = Thu Dec 04 13:46:05 2014	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN – STAGE II FOR SN 071-0067	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	8
CONTRACT NO. 64K41			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN – STAGE II FOR SN 071-0067



NOTES

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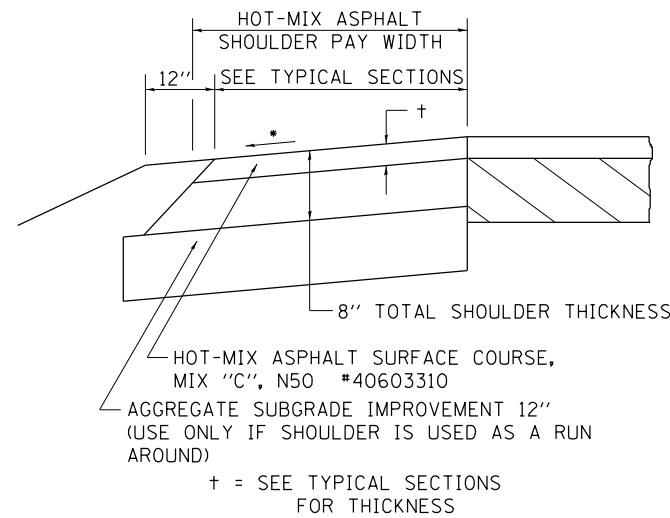
Barrier wall offsets are to the construction side of the barrier wall.

SYMBOLS

- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Work area
- Sign
- Type III barricade
- Traffic signal
- Detector loops
- Impact attenuator

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL PLAN – STAGE II FOR SN 071-0067	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
0:\BR\Oss\Ogle\64K41 Repairs SN 071-0067\CADD\02-shit-cover.dgn		DRAWN - _____	REVISED - _____			553	D2 DECK REPAIR 2015-1	OGLE	20	9	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64K41					
	PLOT DATE = Thu Dec 04 13:46:13 2014	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS, THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

REVISED - 3-13-13

HOT-MIX ASPHALT SHOULDER 23.4a

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 24 x 24
 4 CAPITAL LETTERS - BLACK
 1/2 BORDER - BLACK
 WHITE REFLECTIVE - TYPE AP
 HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

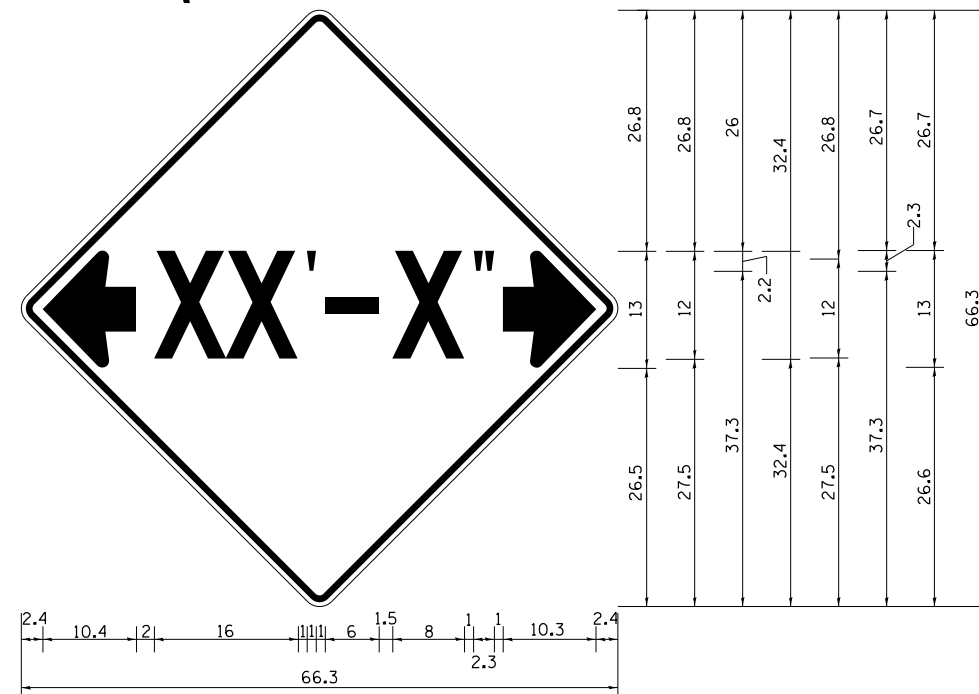
THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

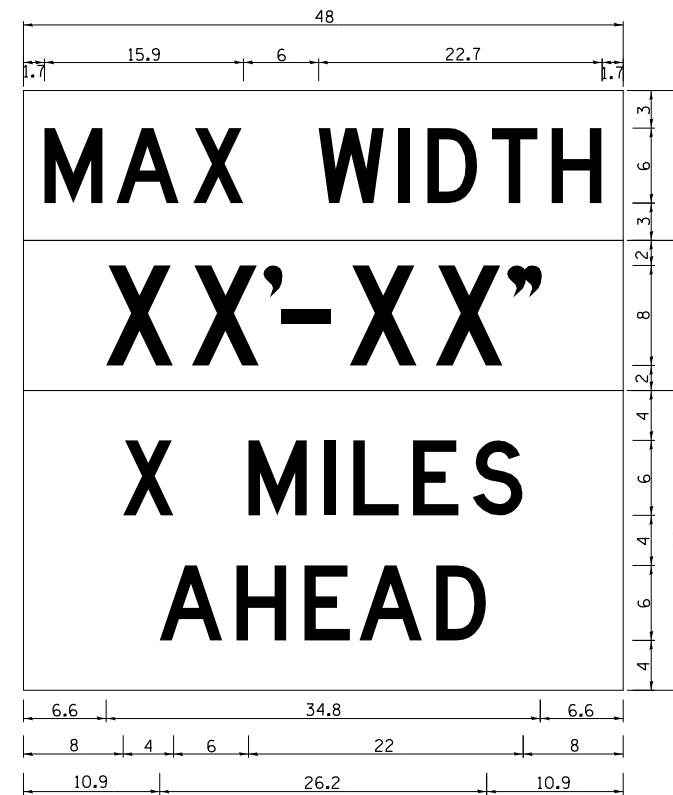
REVISED - 10-11-11

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

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 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
 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.

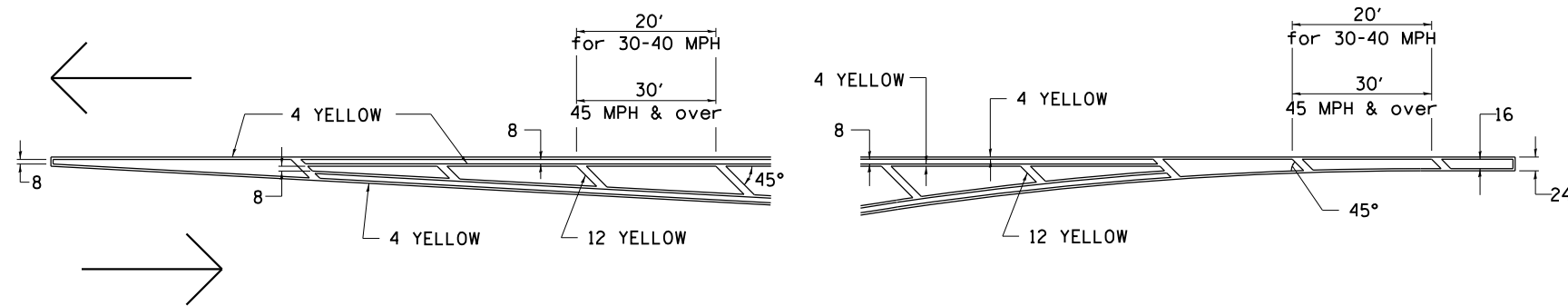
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -				553	D2 DECK REPAIR 2015-1	OGLE	20	10
REVISED -				CONTRACT NO. 64K41				
REVISED -	SCALE: 1/2" = 1'-0" SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

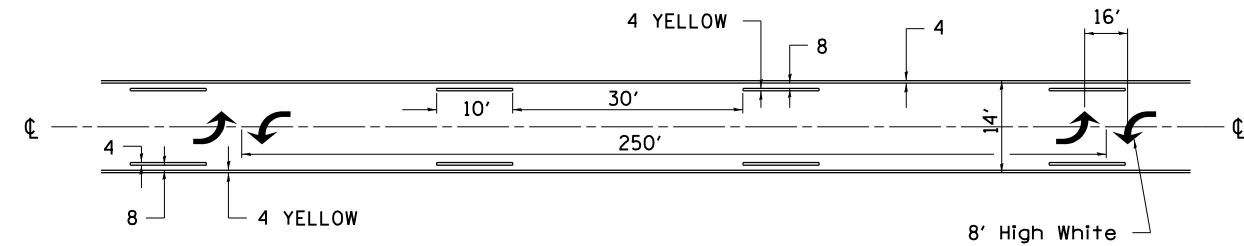
INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

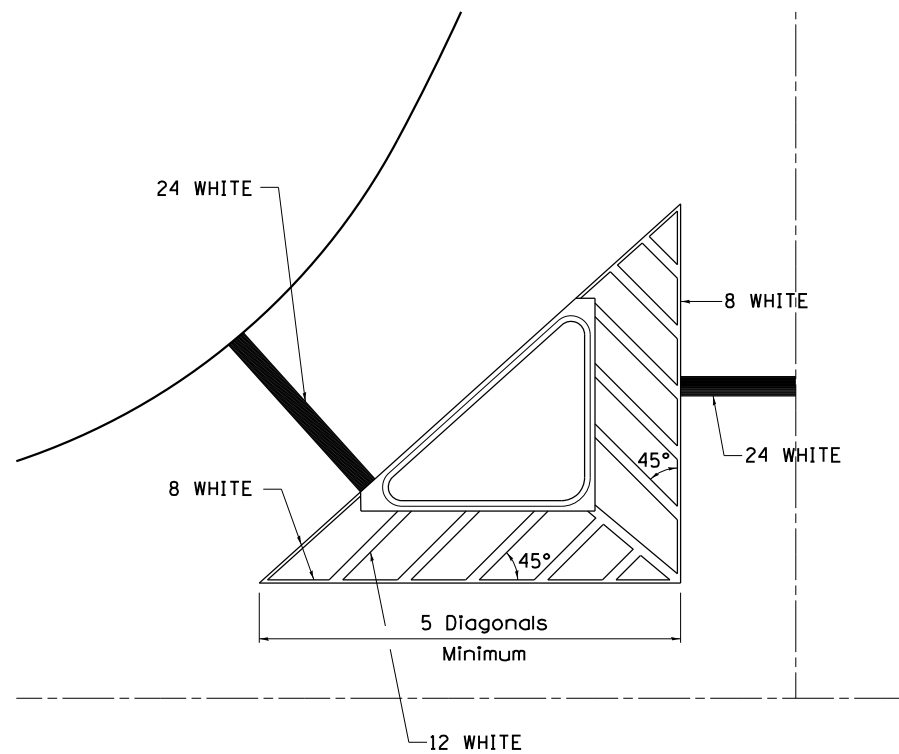


MEDIAN PAVEMENT MARKING



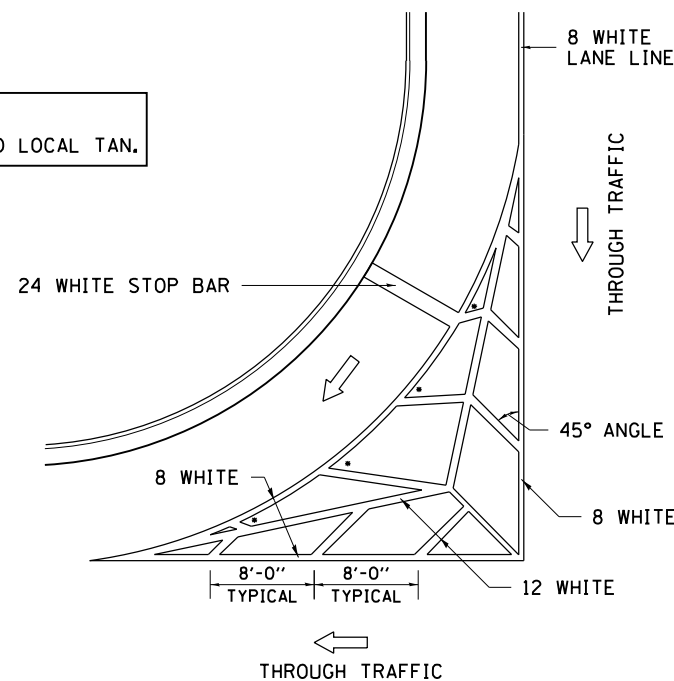
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



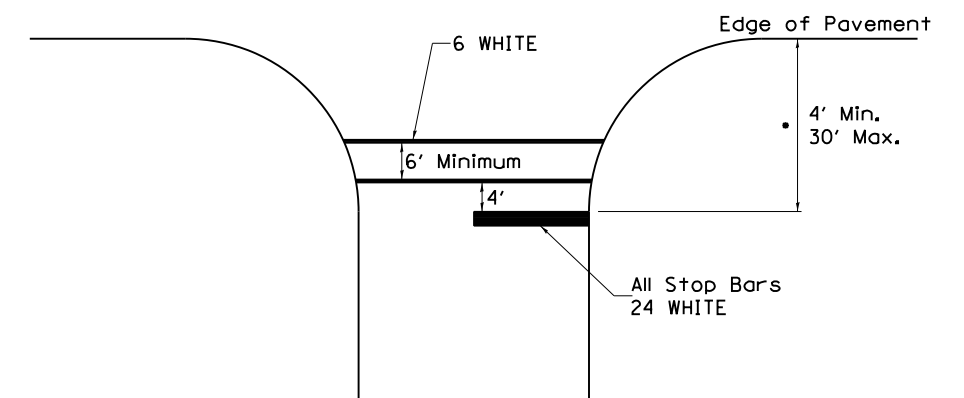
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

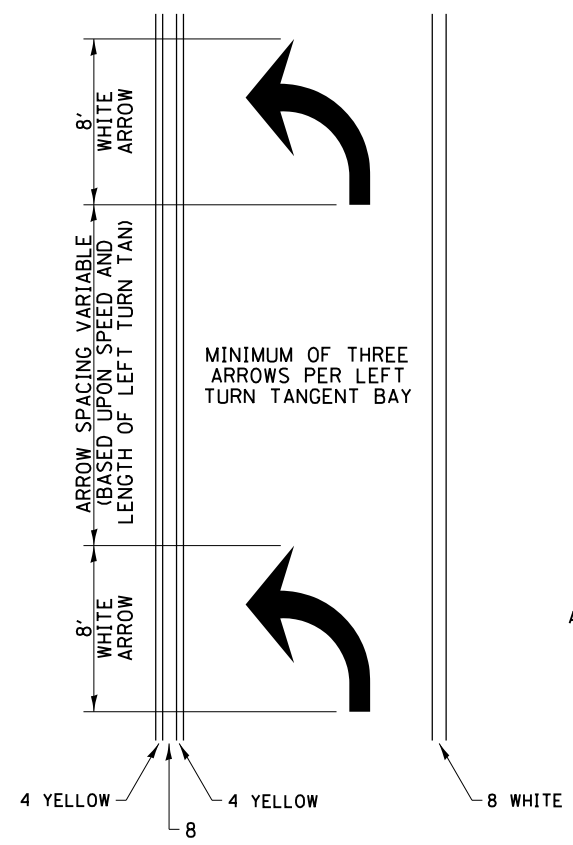


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Oss\Ogle\64K41 Repairs SN 071-006	CADD\02-shit-cover.dgn	DRAWN -	REVISED - 3-05-12		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	553	D2 DECK REPAIR 2015-1	OGLE	20	11
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 64K41				
	PLOT DATE = Thu Dec 04 13:46:26 2014	DATE -	REVISED -					FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

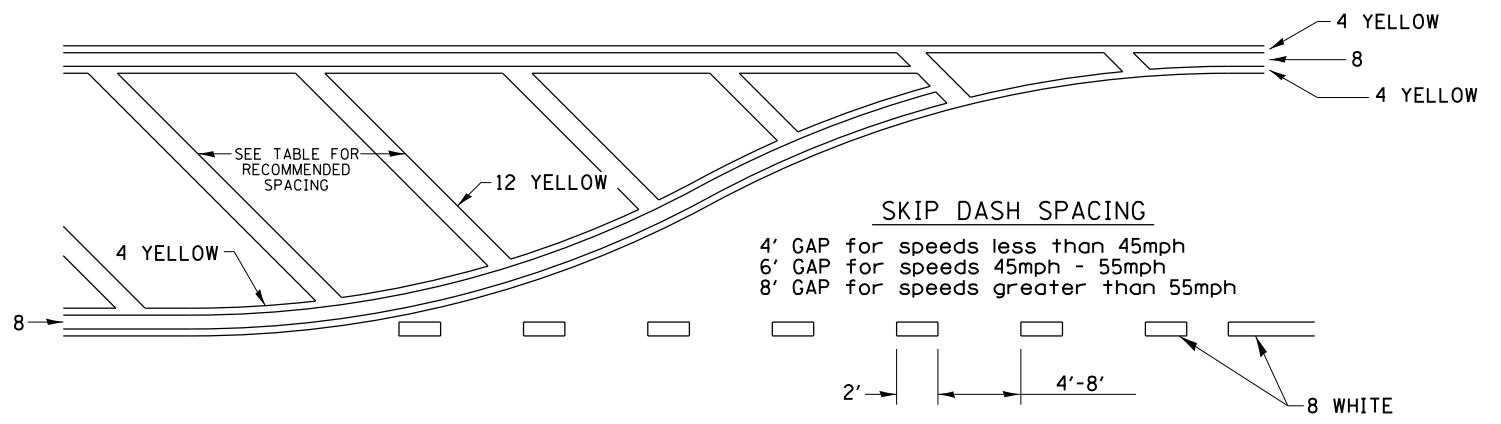
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

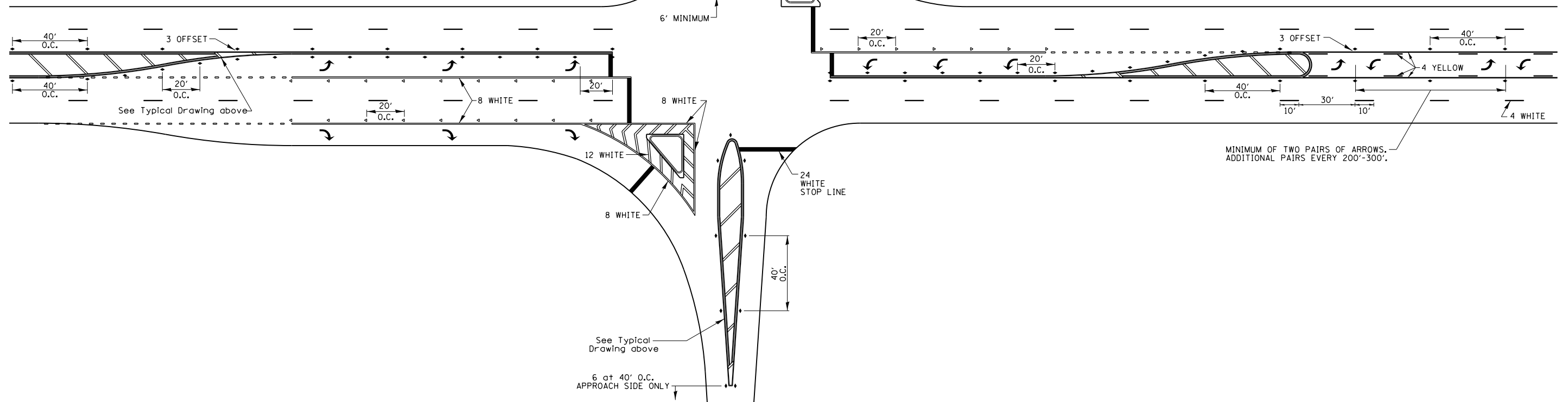
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

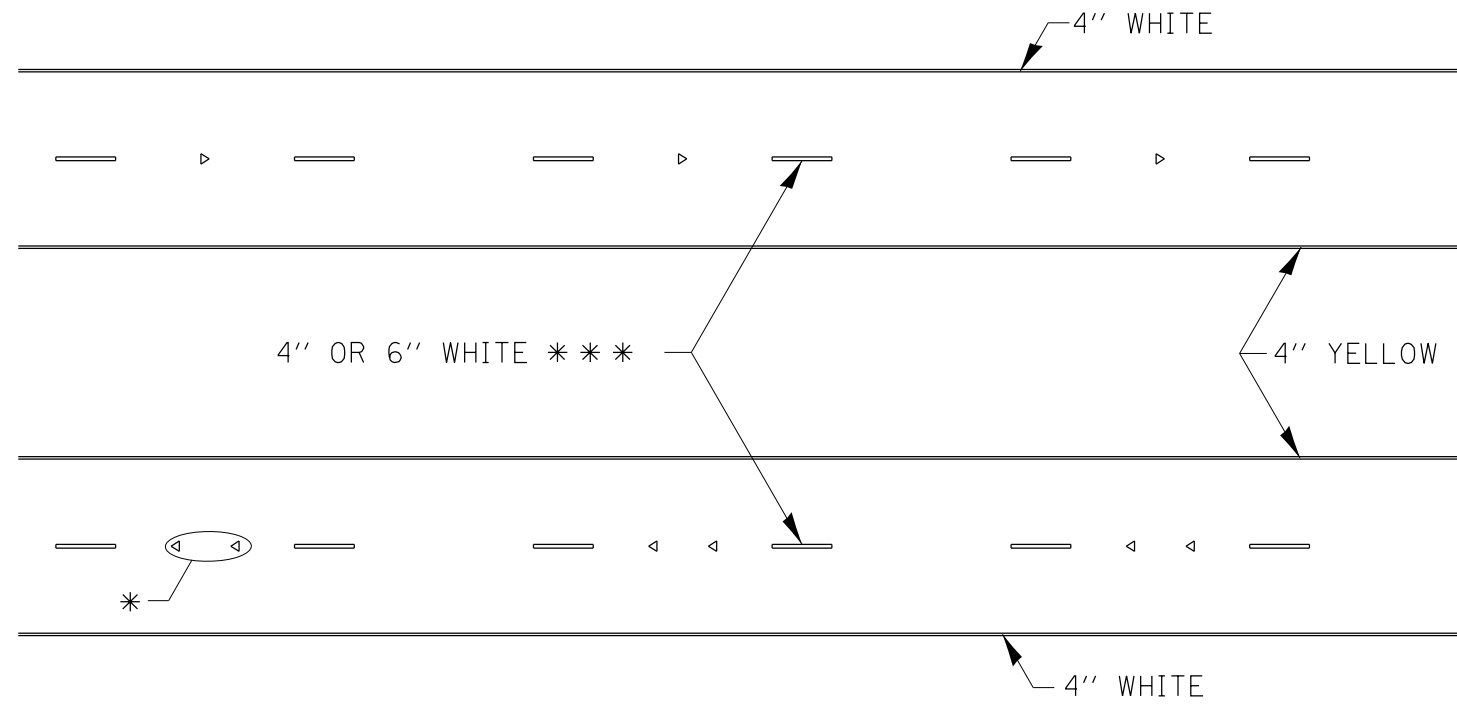
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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



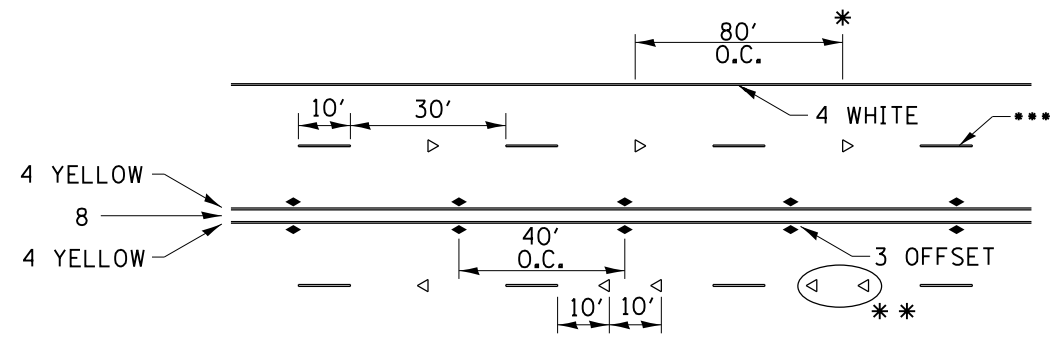
FILE NAME =	USER NAME = dossdd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Oss\Ogle\64K41 Repairs SN 071-006	CADD\02-shit-cover.dgn	DRAWN -	REVISED - 3-05-12			553	D2 DECK REPAIR 2015-1	OGLE	20	12
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -				CONTRACT NO. 64K41				
PLOT DATE = Thu Dec 04 13:46:33 2014	DATE -	REVISED -				FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

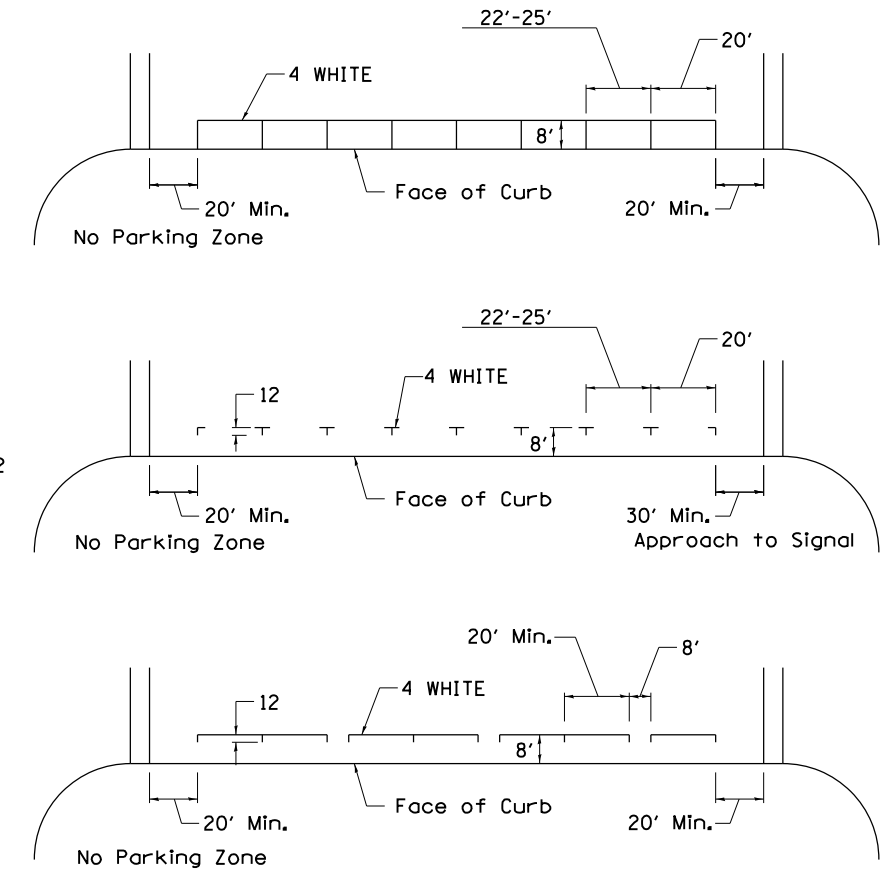
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

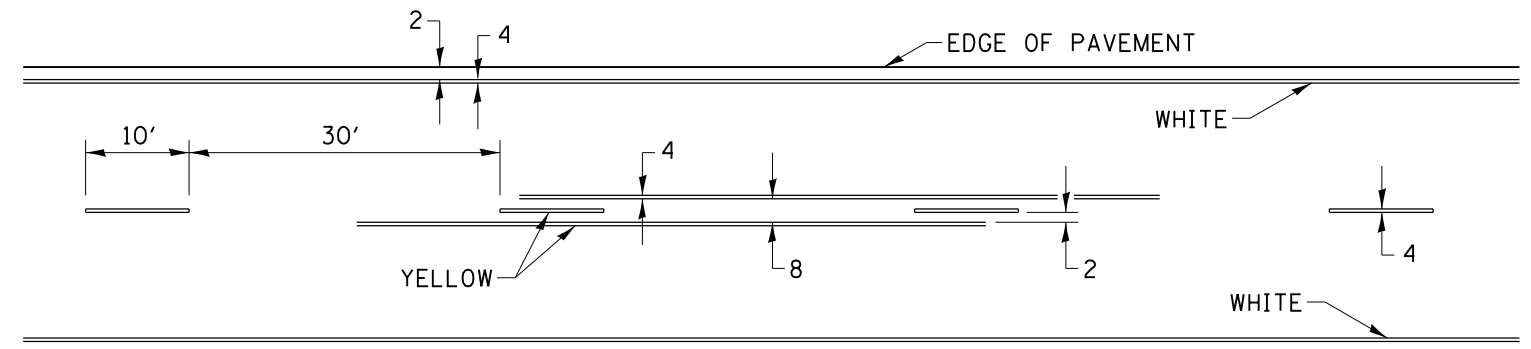
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

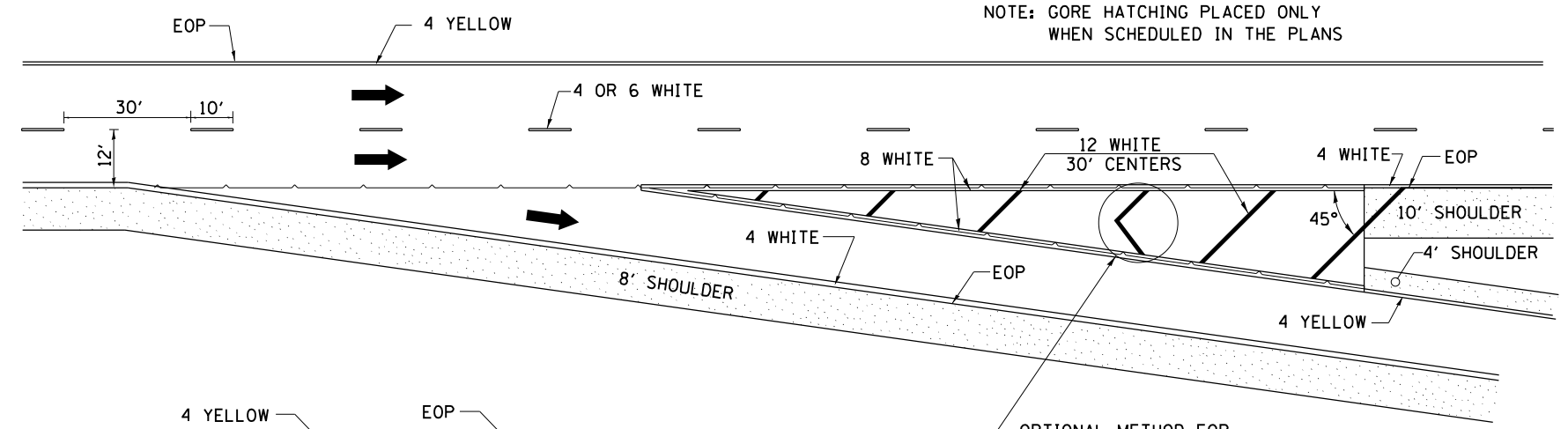
FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Oss\Ogle\64K41 Repairs SN 071-006\CADD\02-shr-cover.dgn	DRAWN -	REVISED - 8-27-13	553			D2 DECK REPAIR 2015-1	OGLE	20	13	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 11-28-12	CONTRACT NO. 64K41							
PLOT DATE = Thu Dec 04 13:46:41 2014	DATE -	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

PAINING DETAILS

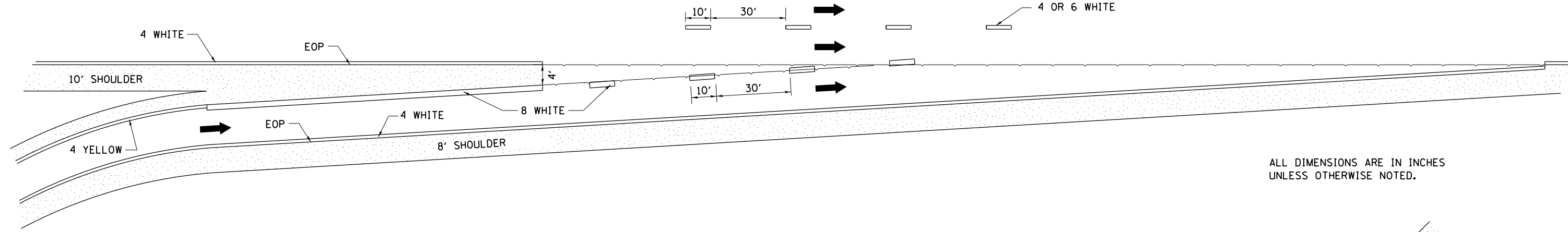
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

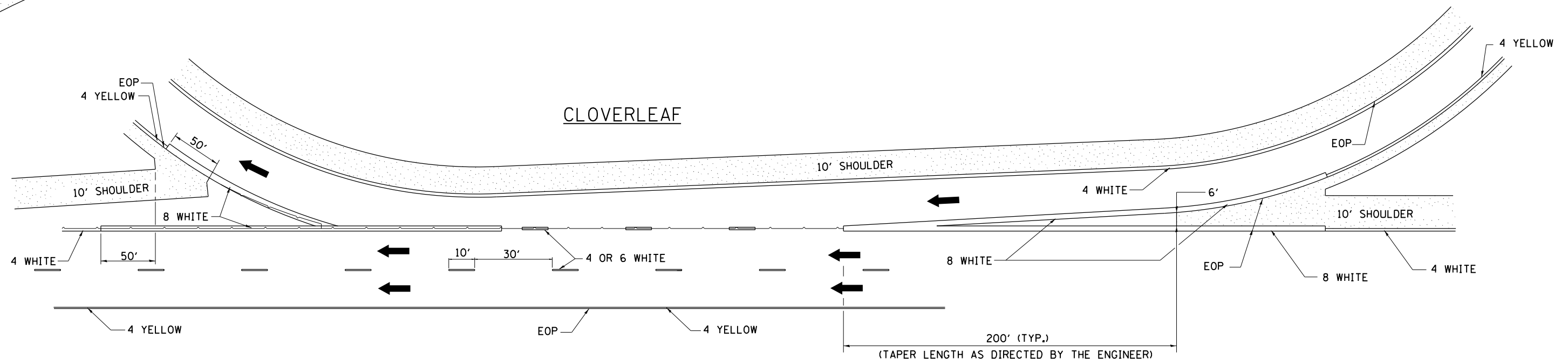


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 8-27-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Oss\Ogle\64K41 Repairs SN 071-006\CADD\02-shr-cover.dgn		DRAWN -	REVISED - 10-18-11		553	D2 DECK REPAIR 2015-1	OGLE	20	14		
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 64K41						
PLOT DATE = Thu Dec 04 13:46:50 2014		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

GENERAL NOTES

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 designated (E) shall be epoxy coated.

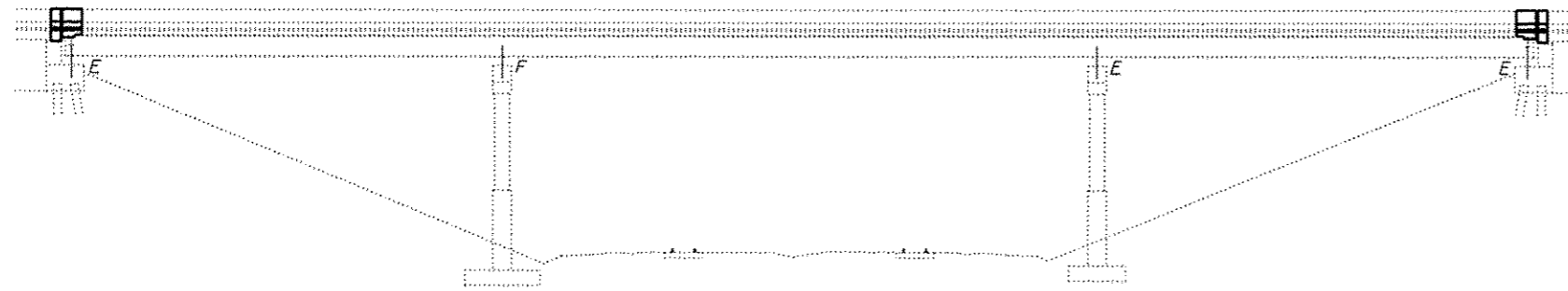
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

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.

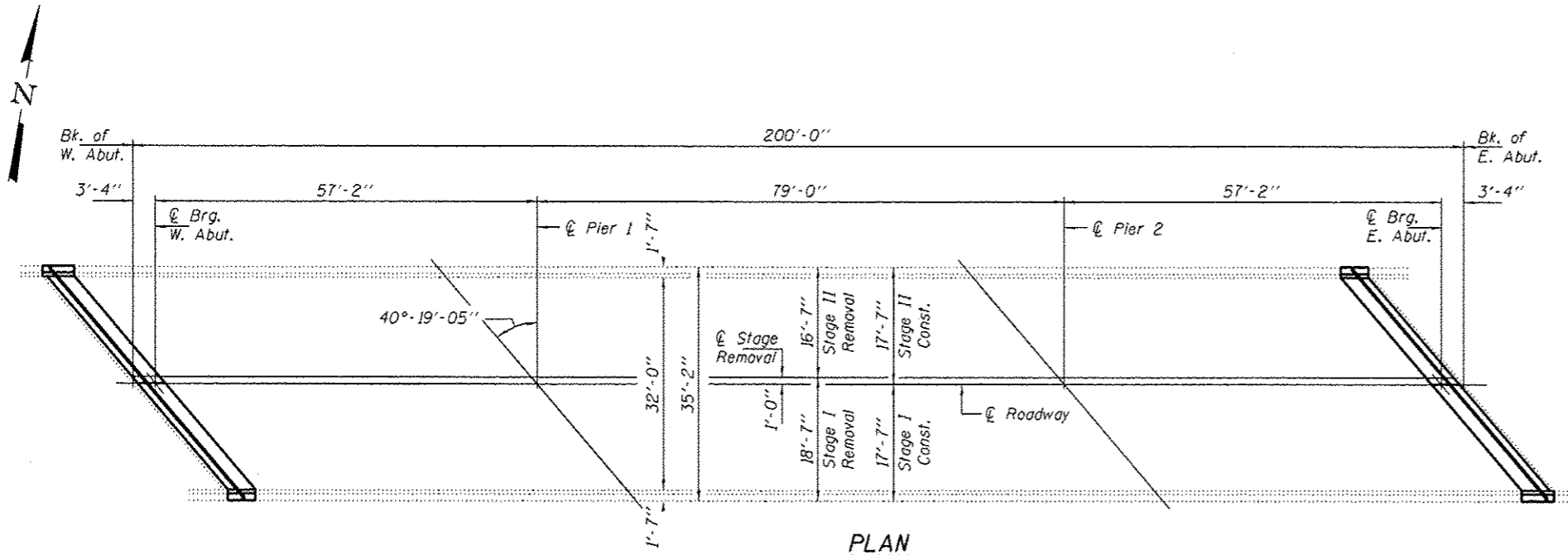
The new deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

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.

Synthetic fibers shall be added to the Bridge Deck Microsilica Overlay Concrete. See Special Provisions



ELEVATION



PLAN



EXPIRES 11-30-2016

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	13.8
Concrete Superstructure	Cu. Yd.	13.8
Preformed Joint Strip Seal	Foot	88
Reinforcement Bars, Epoxy Coated	Pound	1280
Bar Splicers	Each	20
Bridge Deck Scarification 3/4"	Sq. Yd.	676
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	676
Bridge Deck Grooving	Sq. Yd.	671
Protective Coat	Sq. Yd.	35

* On new concrete only

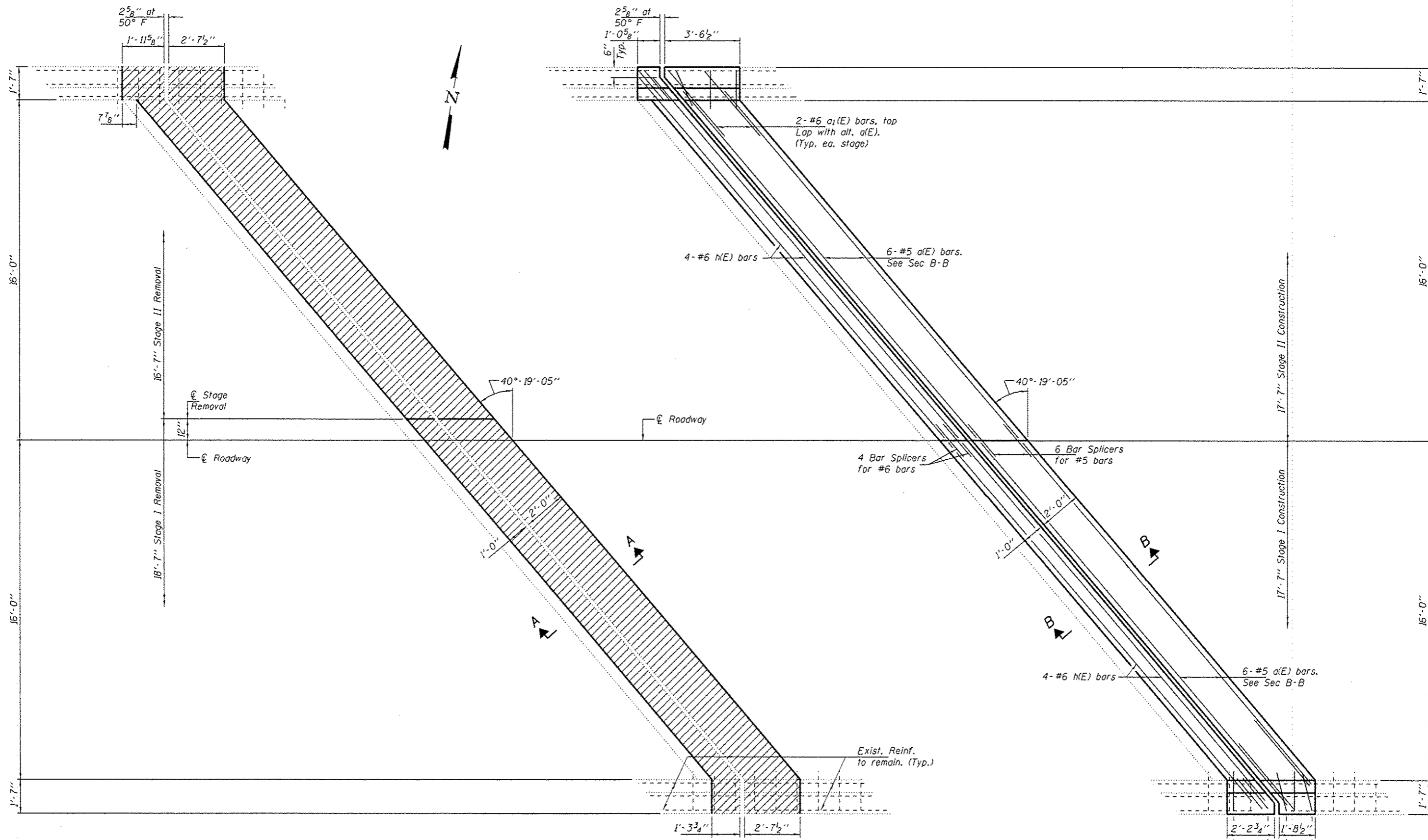
DESIGNED <i>Stephen M. Ryan</i>	EXAMINED <i>Timothy A. Adair</i>	DATE JANUARY 15, 2015
CHECKED <i>Alan C. Holloway</i>	PASSED <i>David Carl Puzey</i>	REVISED
DRAWN <i>baliva</i>		REVISED
CHECKED <i>SMR ATH</i>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
F.A. ROUTE 553 (IL 72) OVER DM & E RR
SN 071-0067

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	15
			CONTRACT NO. 64K41	
ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 6 SHEETS



Notes:
Hatched areas indicate removal.
For Sections A-A & B-B, bar details and
Bill of Material, see sheet 3 of 6.

REMOVAL DETAILS

(W. Abut. shown
E. Abut. similar)

REPLACEMENT DETAILS

(W. Abut. shown
E. Abut. similar)

DESIGNED SMR
CHECKED ATH
DRAWN baliva
CHECKED SMR ATH

EXAMINED
PASSED
Timothy A. Anelli
ACTING ENGINEER OF STRUCTURAL SERVICES
ACTING ENGINEER OF BRIDGES AND STRUCTURES

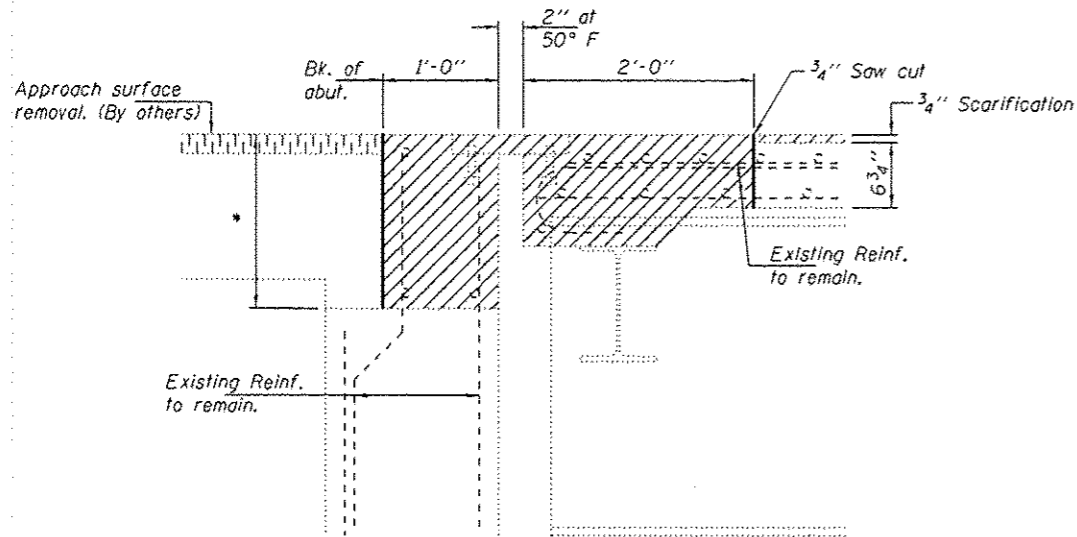
DATE JANUARY 15, 2015
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 071-0067

SHEET NO. 2 OF 6 SHEETS

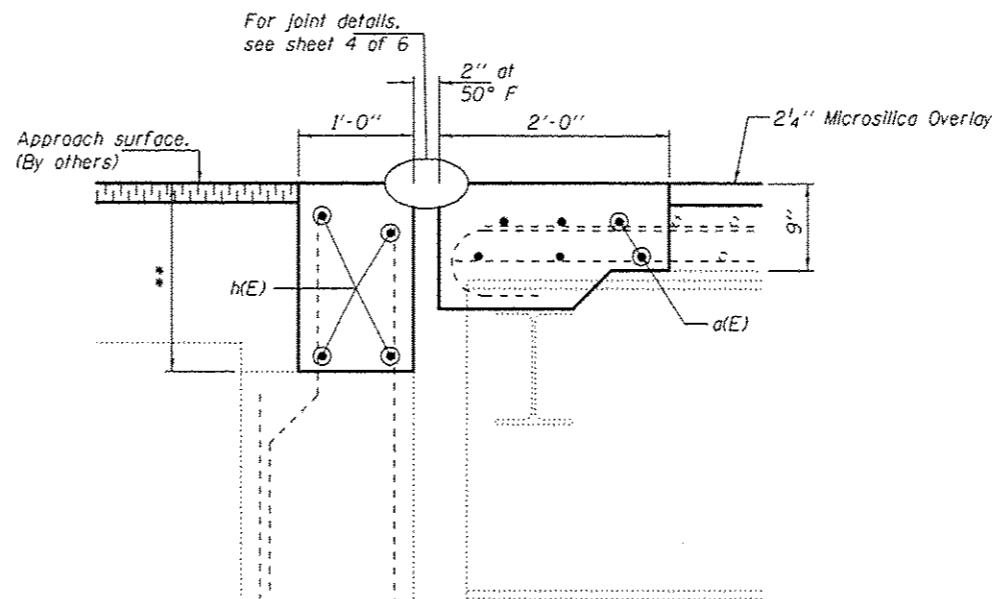
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	16
CONTRACT NO. 64K41			ILLINOIS FED. AID PROJECT	



SECTION A-A

(Near & Roadway)

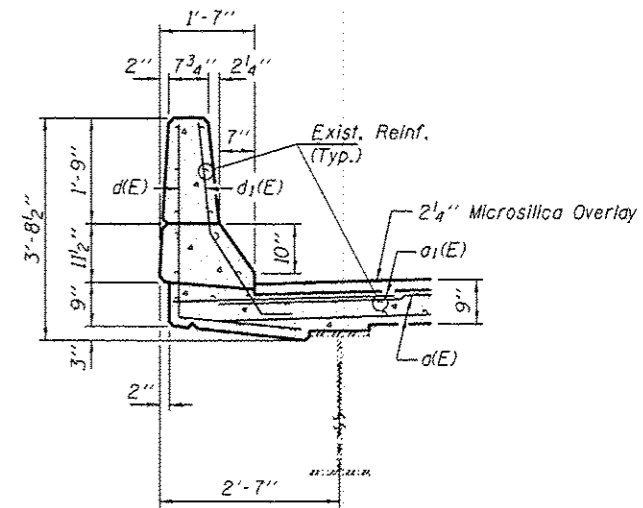
(Dimensions are at RT L's to end of deck)



SECTION B-B

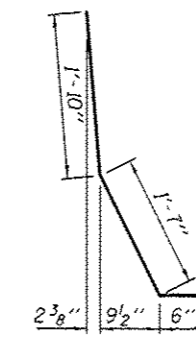
(Near & Roadway)

(Dimensions are at RT L's to end of deck)

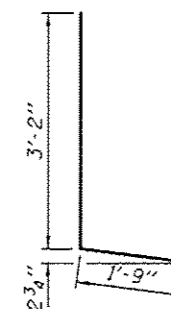


TYPICAL PARAPET SECTION

- * Varies from 1'-4 1/2" to 1'-9 1/2" at West Abut.
Varies from 1'-4 1/8" to 2'-4 5/8" at East Abut.
- ** Varies from 1'-6" to 1'-11" at West Abut.
Varies from 1'-5 5/8" to 2'-6 1/4" at East Abut.



BAR d₁(E)



BAR d(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	24	#5	21'-6"	—
a ₁ (E)	8	#6	4'-0"	—
d(E)	20	#4	4'-11"	L
d ₁ (E)	20	#5	3'-11"	L
h(E)	16	#6	22'-8"	—
Concrete Removal			Cu. Yd.	13.8
Concrete Superstructure			Cu. Yd.	13.8
Reinforcement Bars, Epoxy Coated			Lbs.	1280

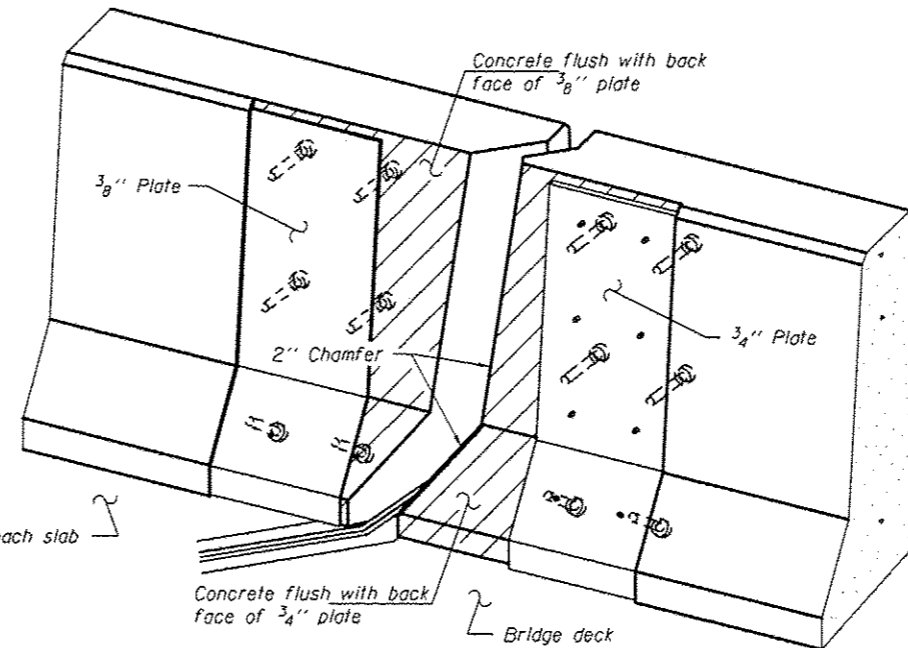
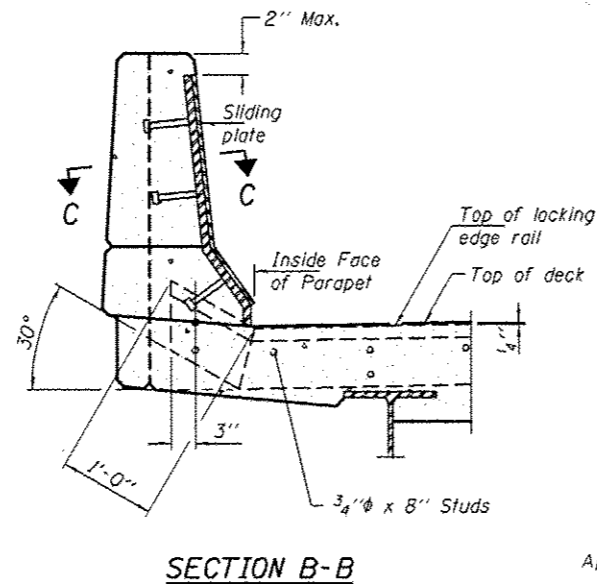
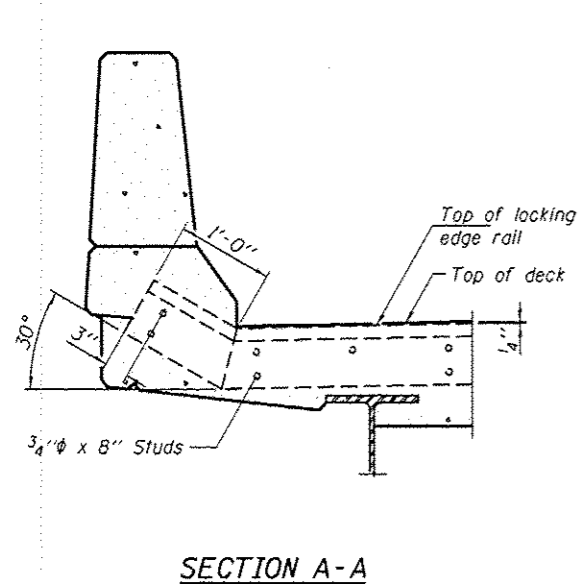
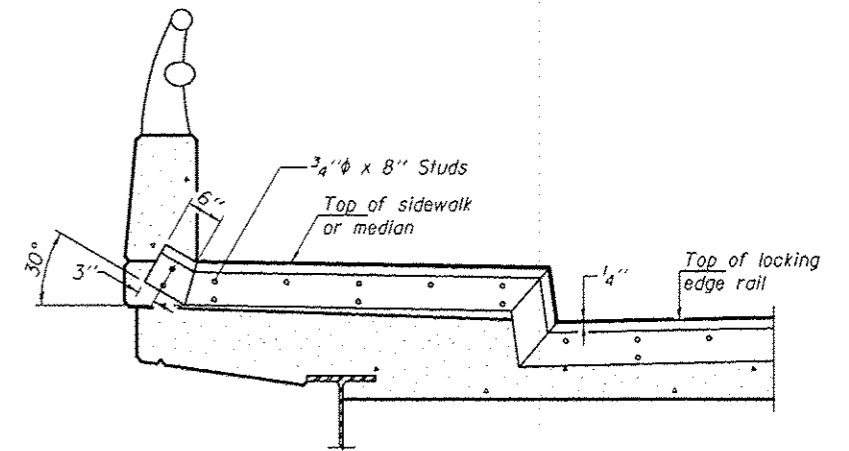
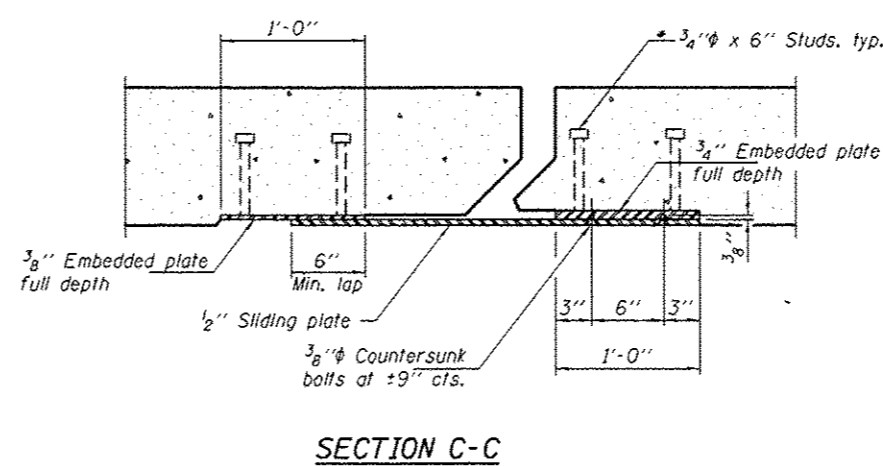
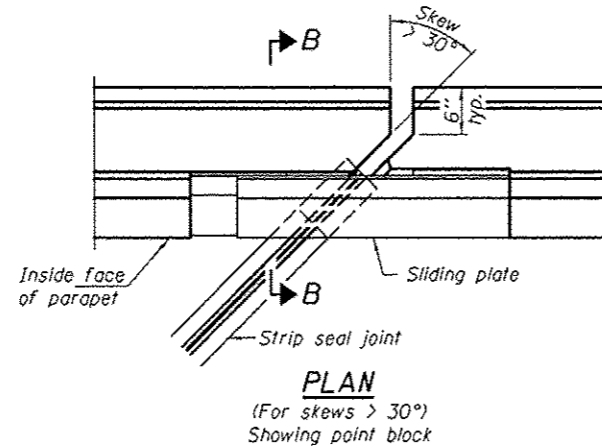
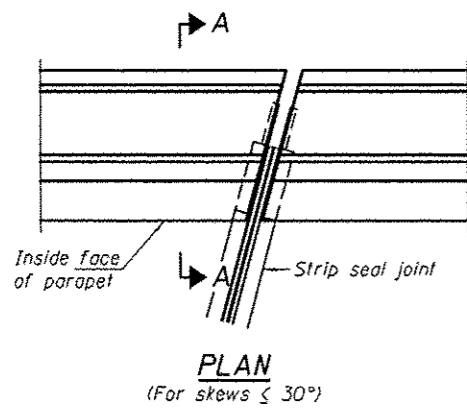
DESIGNED: SMR	EXAMINED: <i>Timothy A. Andert</i>	DATE: JANUARY 15, 2015
CHECKED: ATH	PASSED: <i>ACTING ENGINEER OF STRUCTURAL SERVICES</i>	REVISED:
DRAWN: baliva	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED:
CHECKED: SMR ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 071-0067

SHEET NO. 3 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	17
CONTRACT NO. 64K41				
ILLINOIS FED. AID PROJECT				



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.

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.

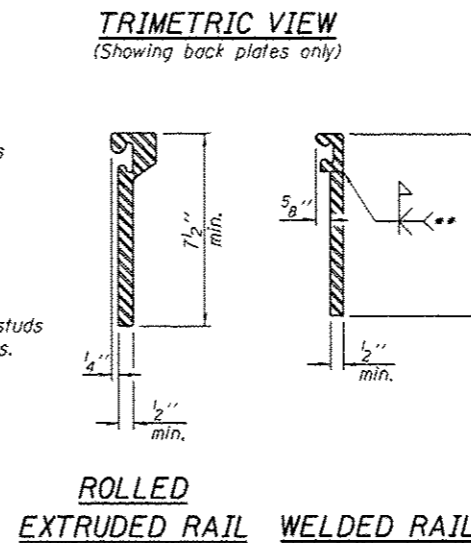
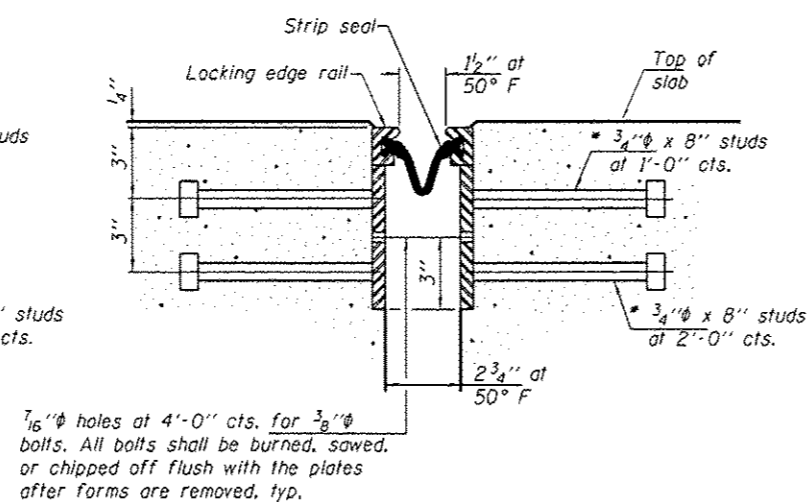
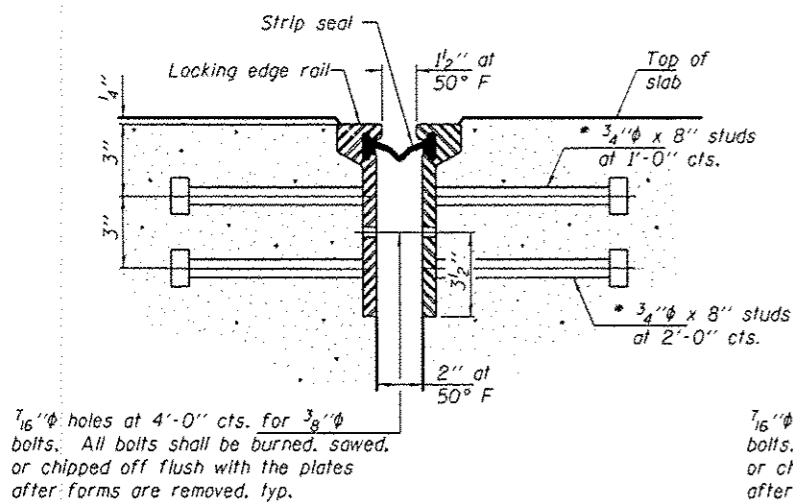
The manufacturer's recommended installation methods shall be followed.

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 shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

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

*** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	88

EJ-SSJ

1-27-12

DESIGNED SMR
CHECKED ATH
DRAWN baliva
CHECKED SMR ATH

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

DATE JANUARY 15, 2015
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 071-0067

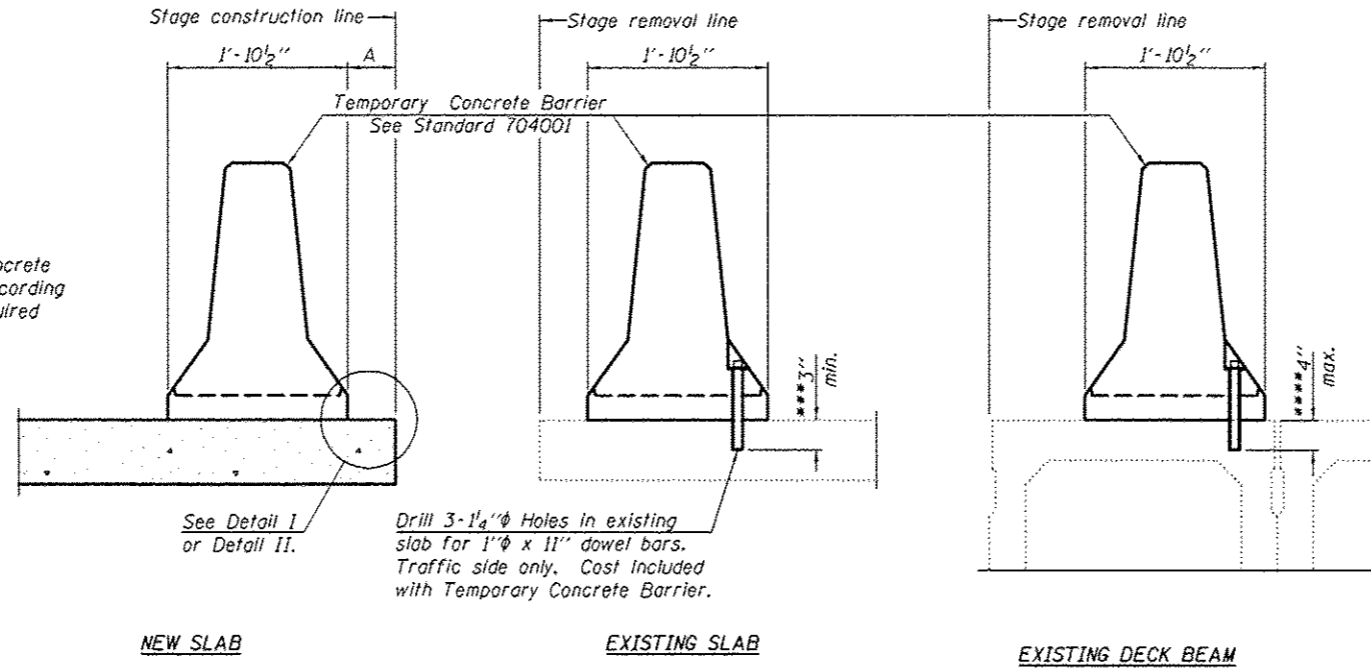
SHEET NO. 4 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	18

CONTRACT NO. 64K41
ILLINOIS FED. AID PROJECT

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

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".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

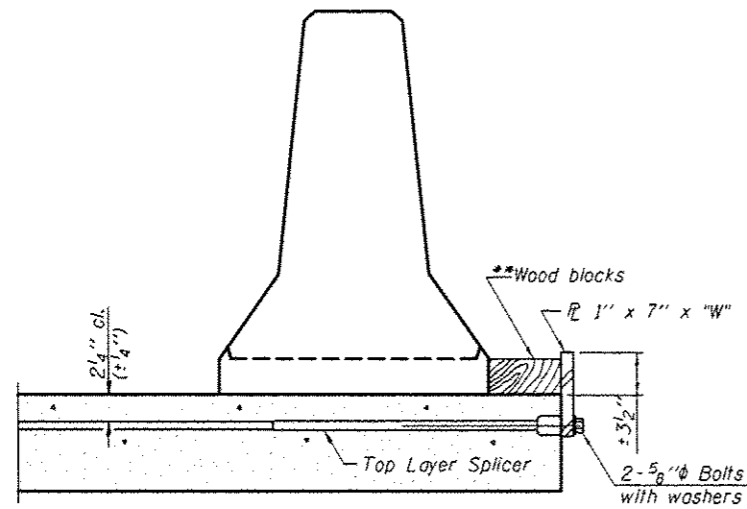
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{R} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

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

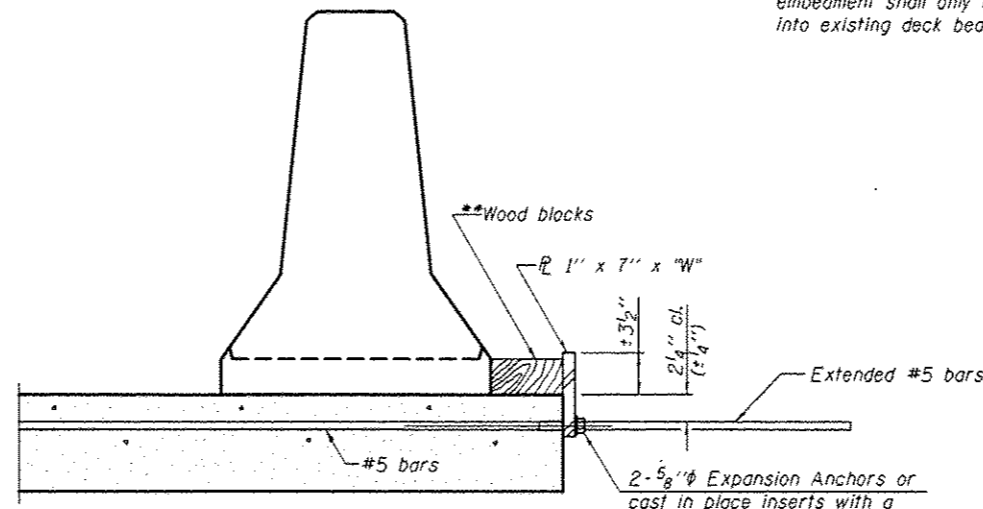
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

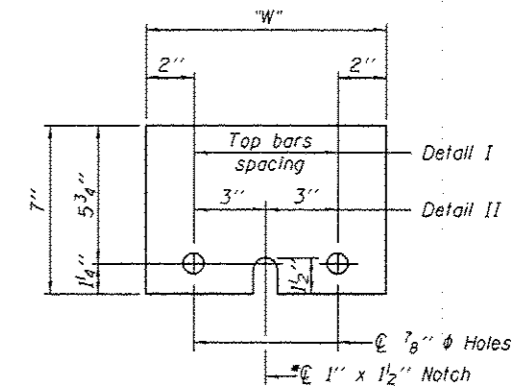
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{R} 1" x 7" x "W"

* Required only with Detail II

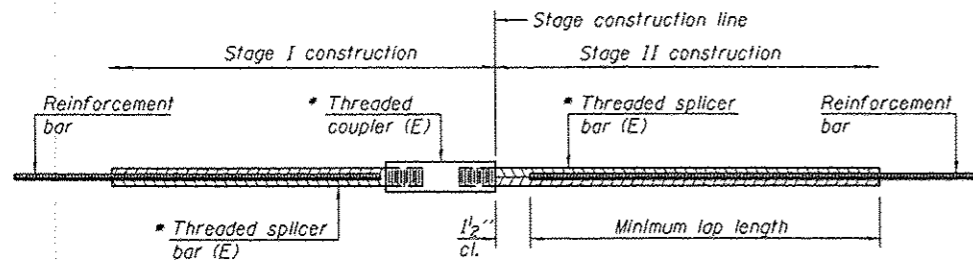
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

DESIGNED SMR	EXAMINED	DATE JANUARY 15, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TEMPORARY CONCRETE BARRIER SN 071-0067		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH	PASSED						553	D2 DECK REPAIR 2015-1	OGLE	20	19
DRAWN ballva									CONTRACT NO. 64K41		
CHECKED SMR ATH					SHEET NO. 5 OF 6 SHEETS		ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

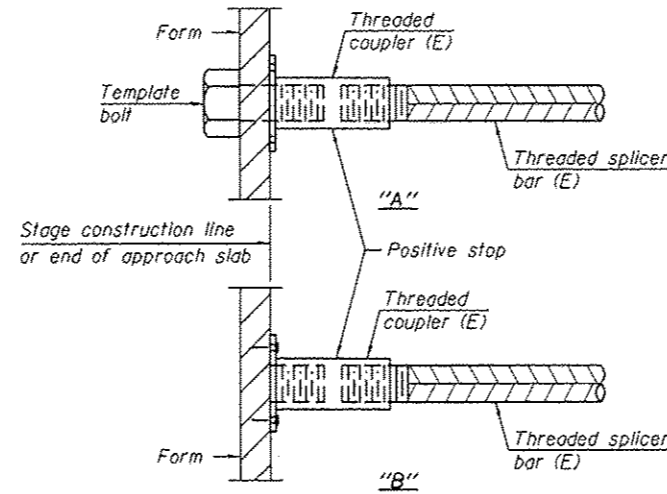
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- Table 1: Black bar, O.B Class C
- Table 2: Black bar, Top bar lap, O.B Class C
- Table 3: Epoxy bar, O.B Class C
- Table 4: Epoxy bar, Top bar lap, O.B Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

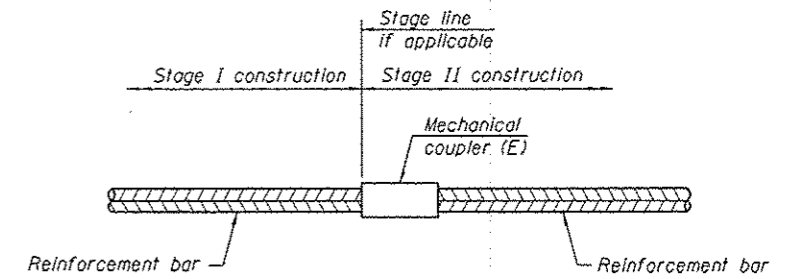
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
W. Abut. Hatch block	#6	4	3
W. End of deck	#5	6	3
E. Abut. Hatch block	#6	4	3
E. End of deck	#5	6	3



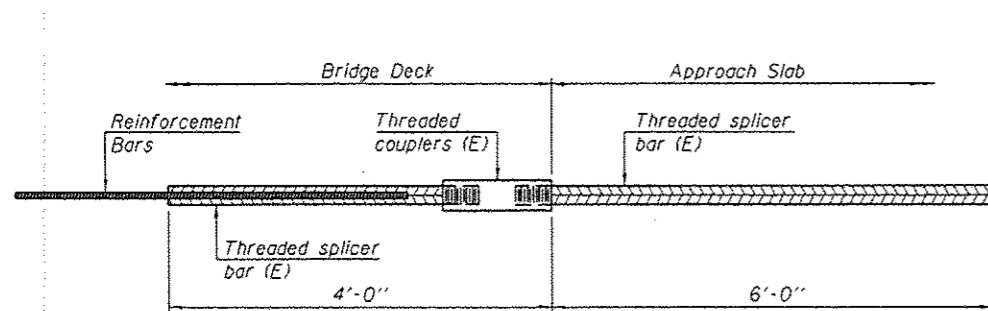
INSTALLATION AND SETTING METHODS

"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.



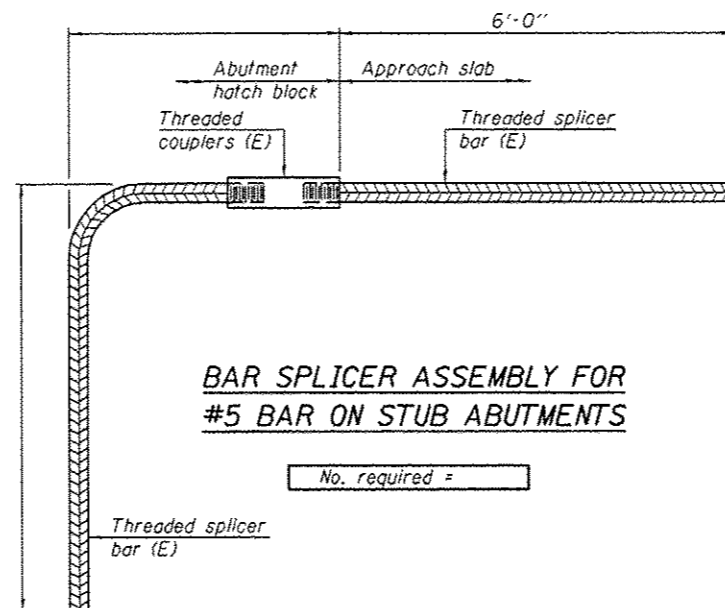
STANDARD MECHANICAL SPLICER

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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-27-12

DESIGNED SMR	EXAMINED	DATE JANUARY 15, 2015
CHECKED ATH	<i>Timothy A. Anelli</i>	
DRAWN ballva	ACTING ENGINEER OF STRUCTURAL SERVICES	
CHECKED SMR ATH	PASSED	REVISED
	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 071-0067

SHEET NO. 6 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	D2 DECK REPAIR 2015-1	OGLE	20	20
CONTRACT NO. 64K41			ILLINOIS FED. AID PROJECT	