07-31-2015 LETTING ITEM 087

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

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

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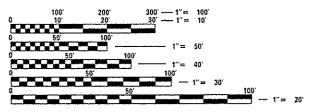
PROPOSED HIGHWAY PLANS

FAI ROUTE 74/280 (I-74/I-280)
SECTION (37-1HB-1R)M
TYPE OF IMPROVEMENT: BRIDGE REPAIR
SN 037-0005 & SN 037-0006 OVER EAST 400TH STREET (TR 48)

HENRY COUNTY

SN 037-0005 & C-92-070-15
R.1E

COLONA TOWNSHIP, SECTION 16



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

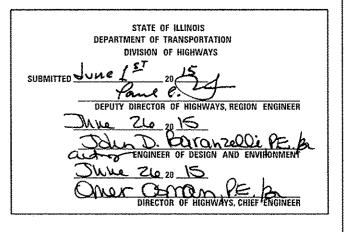
PROJECT ENGINEER: DAVID DOSS (815) 284-5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64K81

RTE. SECTION COUNTY STEETS NO. 74/280 (37-1HB-1R)M HENRY A 1 1 ILLINOIS CONTRACT NO. 64K81

D-92-032-15





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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- 26 TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION SN 037-0005 & 037-0006

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
- 701101 04 OFF ROAD OPERATIONS, MULTILANE, 15' (4,5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201 04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301 04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701400 08 APPROACH TO LANE CLOSURE, FREEWAYEXPRESSWAY
- 701401 09 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402 10 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
- 701426 07 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, 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:

(Type name & phone number of JULIE companies from attached utility form.)

Electric:

MIDAMERICAN ENERGY ATTN: JASON TERRY (309) 793-3649 2811 5TH AVENUE ROCK ISLAND, IL 61201

Gas

MIDAMERICAN ENERGY COMPANY ATTN: ROD HAWK (309) 793-3760 2811 5TH AVENUE ROCK ISLAND, IL 61201

Telephone:

GENESEO TELEPHONE CO. ATTN: ROGER GRANELL (309) 944-8025 111 EAST 1ST STREET GENESEO, IL 61254

AT&T
ATTN: DAVID CREEN (309) 757-4707
2800 7TH STREET

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 2'-0' 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 2'-0" 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.

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STATI	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	F.A.I. RTE.	SECTION				
	74/28C	(37-1HB-1R)A				
A) F:	SHEET	OF	SHEETS STA.	TO STA.		Ti. Line

HENRY 26 2 CONTRACT NO. 64K81

URDAN

SUMMARY OF QUANTITIES

0014 100% State Funds

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
42001300	PROTECTIVE COAT	SQ YD	66.6
50102400	CONCRETE REMOVAL	CU YD	26.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	26.8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4740
50800515	BAR SPLICERS	EACH	56
52000110	PREFORMED JOINT STRIP SEAL	FOOT	178
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	14,060
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4,661
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,049
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	981
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
78300100	PAVEMENT MARKING REMOVAL	SQ FT	2,594
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	40
X0550300	SLOPE WALL BREAKING	SQ YD	95
X7010410	SPEED DISPLAY TRAILER	CAL MO	3

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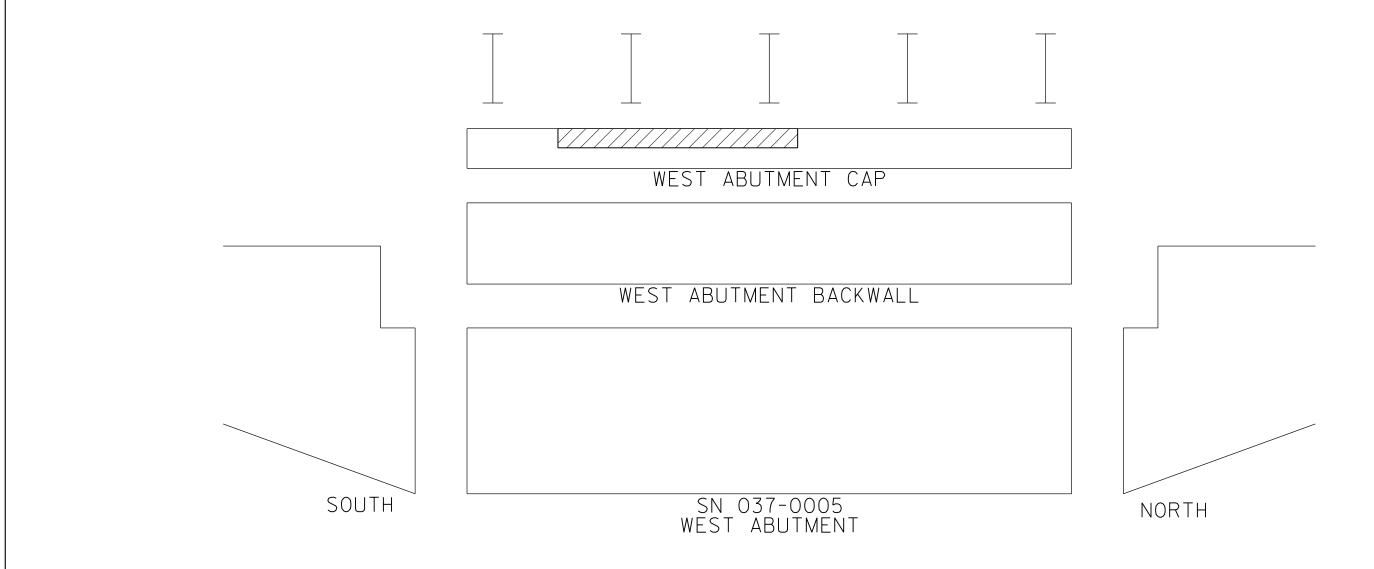
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STATE OF	FILLINOIS
DEPARTMENT OF	TRANSPORTATION

		SUMMARY	OF	QU	ANTIT	IES	
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	F,A.J RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74/280	(37-1HB-1R)M	HENRY	26	3
_			CONTRACT	NO. 6	34K81
		ILLINOIS FED. A	O PROJECT		

SUBSTRUCTURE REPAIR DETAIL SN 037-0005 WEST ABUTMENT



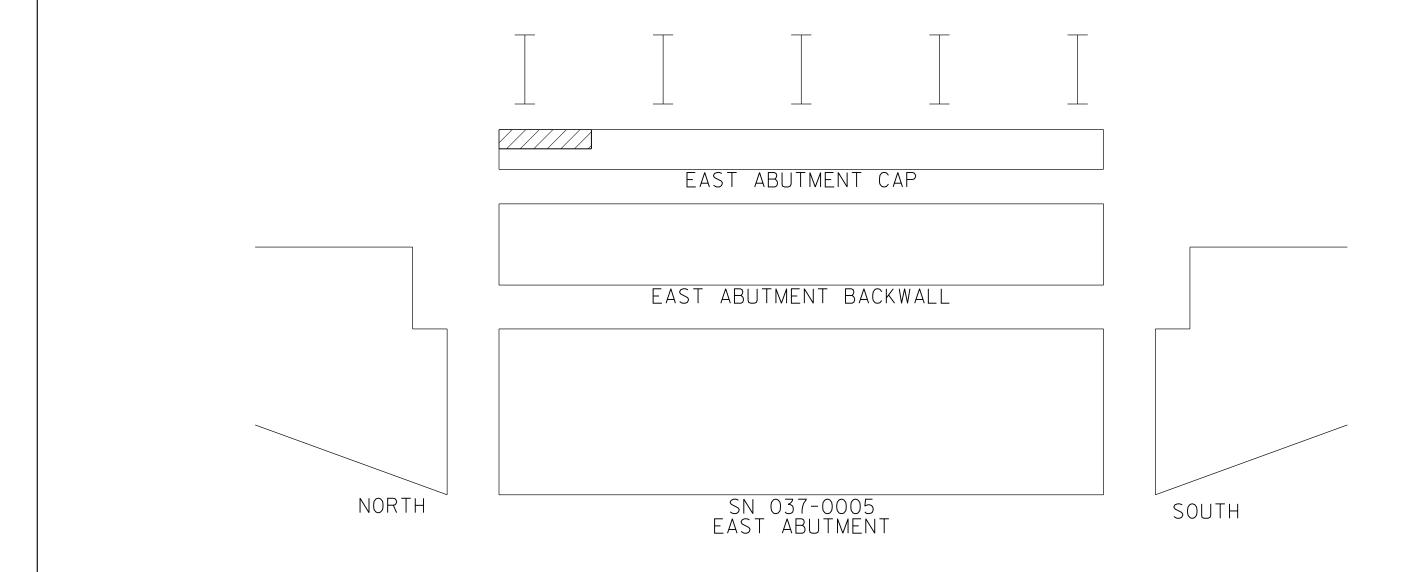
ITEM	QUANTITY					
(*) STRUCTURAL REPAIR OF CONCRETE =< 5"	20 (SQ FT)					



(*)THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

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SUBSTRUCTURE REPAIR DETAIL SN 037-0005 EAST ABUTMENT



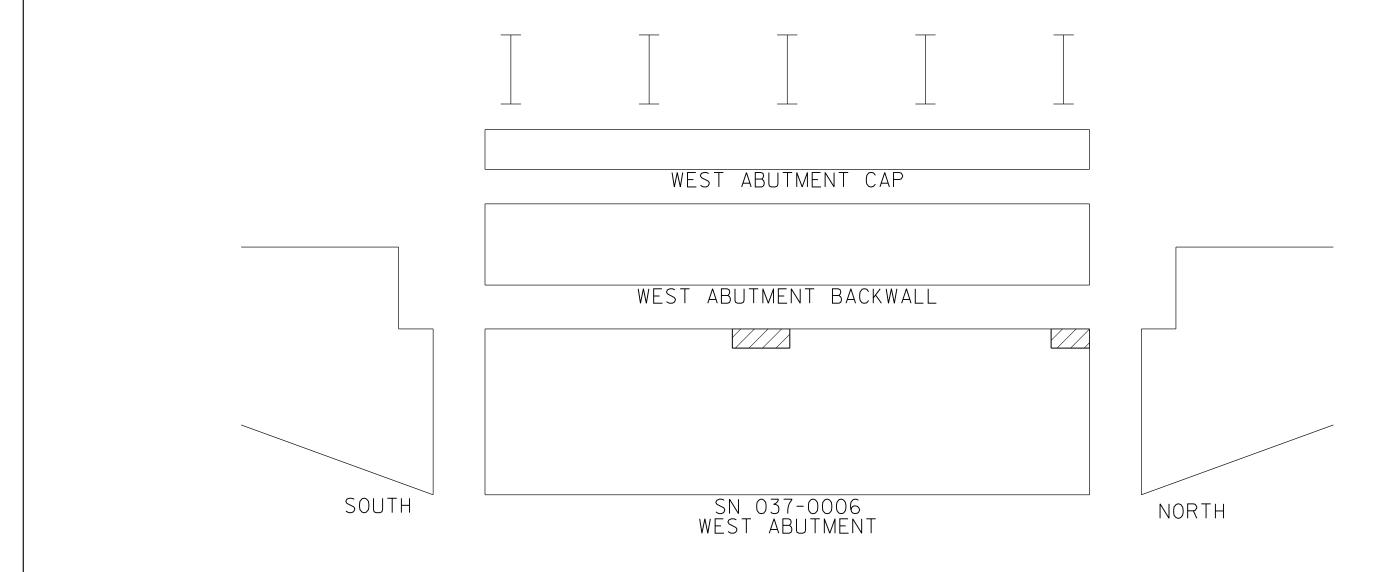
		QUANTITY				
(*)	STRUCTURAL	REPAIR	OF	CONCRETE	=< 5''	10 (SQ FT)



(*)THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

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SUBSTRUCTURE REPAIR DETAIL SN 037-0006 WEST ABUTMENT



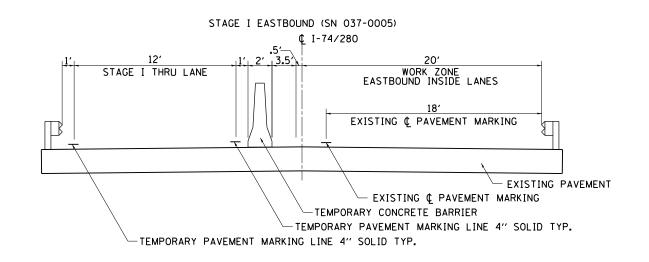
ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE =< 5"	10 (SQ FT)

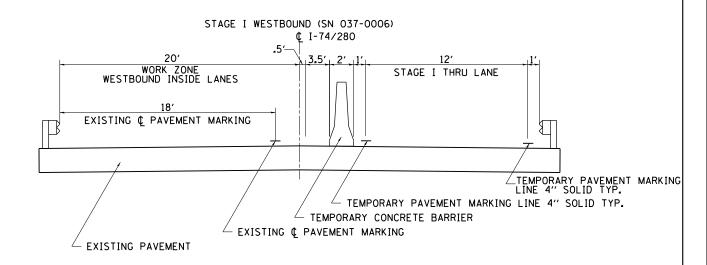


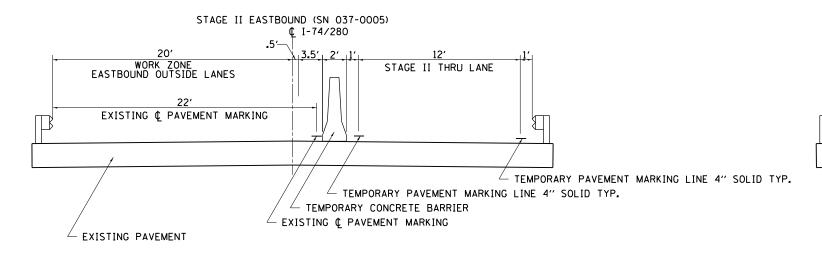
(*)THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

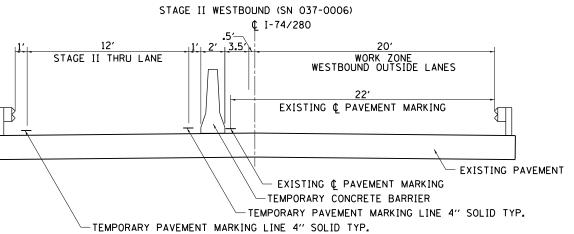
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STAGING TYPICALS FOR SN 037-0005 & 037-0006









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STAGING TYPICALS F.A.I RTE. SECTION COUNTY SHEETS NO											
FOR SN 037-0005 & 037-0006	74/280 (37-1HB-1R)M HENRY 26 7										
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SHEET OF SHEETS STA TO STA	ILLINOIS FED. AID PROJECT										



00 DER STANDARD 701400

70400100 TEMPORARY CONCRETE BARRIER

STAGE I

1,049 FT

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STAGE II

981 FT

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

STAGE I

2 EACH

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

STAGE II

2 EACH

70300220 TEMPORARY PAVEMENT MARKING LINE 4"

STAGE I STAGE II 7,780 F

TOTAL 14.060 FT

70301000 WORKZONE PAVEMENT MARKING REMOVAL

STAGE I STAGE II 2,594 SQ FT 2,067 SQ FT

TOTAL 4,661 SQ FT

78300100 PAVEMENT MARKING REMOVAL

STAGE I STAGE II 1,464 SQ FT 1,130 SQ FT

TOTAL 2,594 SQ FT

SYMBOLS

Arrow boar

Work area

h ci

- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

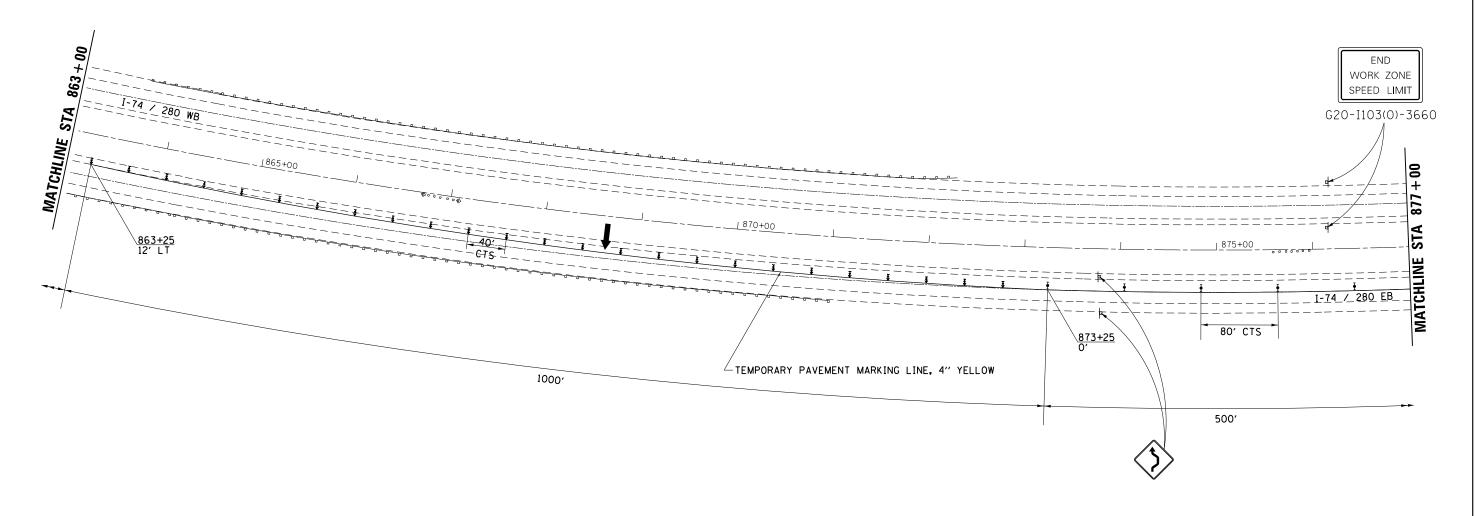
Temporary concrete barrier

- Drums with steady burning monodirectional light

- **NOTES**
- Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- (2) Barrier wall/guardrail markers at 25′ (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- 3 Offsets shown are from the centerline pavement marking of the direction of travel.
- $\stackrel{\hbox{\scriptsize (4)}}{}$ Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

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SYMBOLS

Arrow boa

Work area

- ⊧ Sign
- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

Temporary concrete barrier

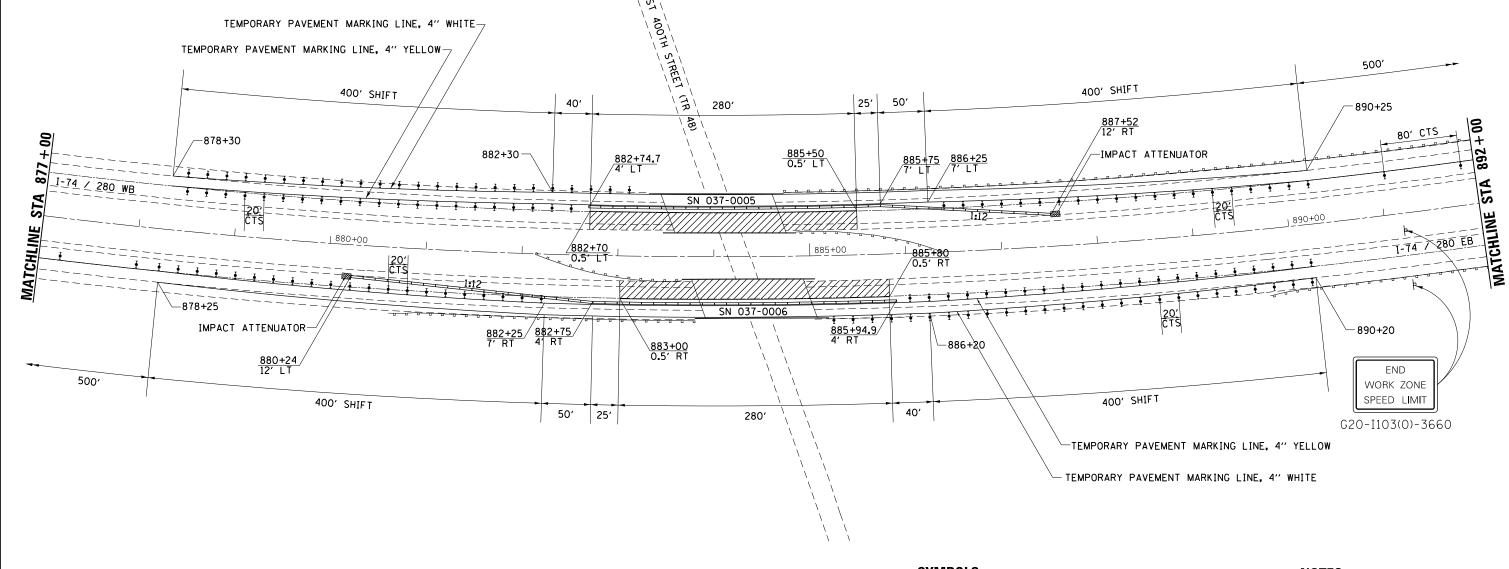
- - Drums with steady burning monodirectional light

NOTES

- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25′ (7.6 m).

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- (4) Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED		TRAFFI	C CONTROL PLAN FOR SN 037-0005 & 037-0006	F.A.I RTF.	SECTION	COUNTY S	SHEET NO.
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SYMBOLS

Arrow boar

Work area

⊧ Sign

- Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

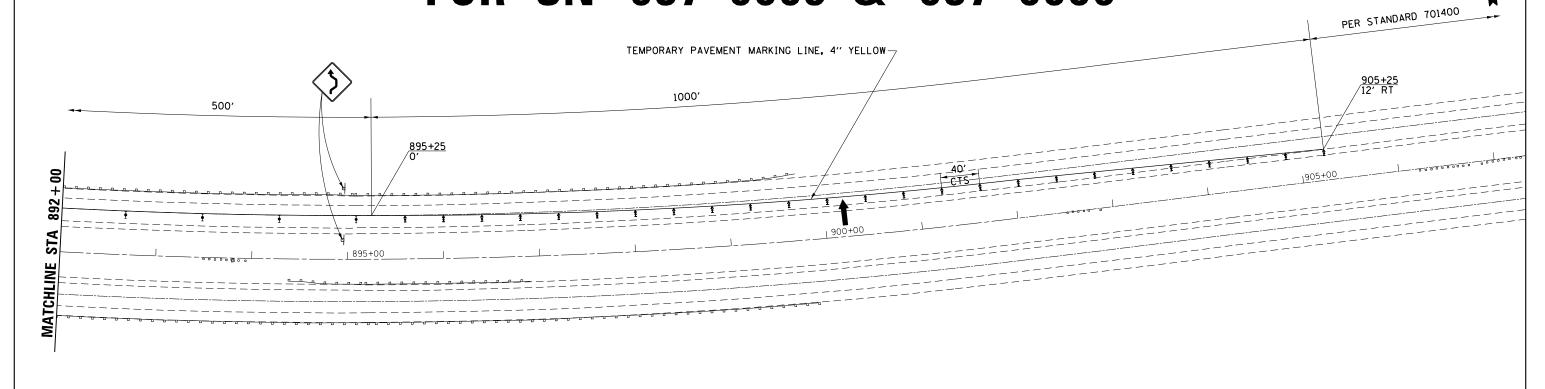
Temporary concrete barrier

- Drums with steady burning monodirectional light

NOTES

- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- (2) Barrier wall/guardrail markers at 25′ (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
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SYMBOLS

Arrow boa

Work area

- ⊧ Sign
- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

Temporary concrete barrier

- ₩ Impact attenuator
 - Drums with steady burning monodirectional light

- **NOTES**
- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- (2) Barrier wall/guardrail markers at 25′ (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
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Arrow boa

Work area

- ⊧ Sign
- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

Temporary concrete barrier

- Drums with steady burning monodirectional light

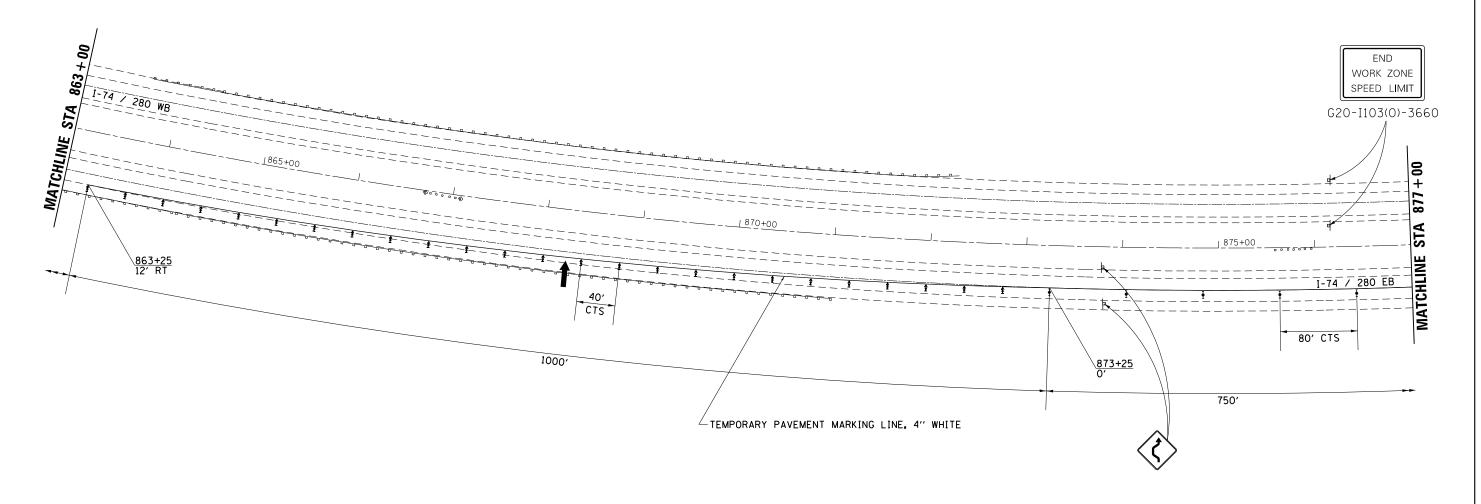
NOTES

PER STANDARD 701400

- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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- 3 Offsets shown are from the centerline pavement marking of the direction of travel.
- 4 Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

0\triangle Ox\times Henry\\ 64K8 Repairs SN \(037 - 08065\times \text{ AGDD \text{DZ}\(037 - 1805\times \text{ AGE I} \) REVISED	FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED		TRAFFIC CONTROL PLAN FOR SN 037-0005 & 037-0006	F.A.I RTF	SECTION	COUNTY	TOTAL SH	HEET NO.
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SYMBOLS

Arrow boar

Work area

- ⊧ Sign
- ↑ Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
- Temporary concrete barrier
 - - Drums with steady burning monodirectional light

NOTES

- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED		TRAFFI	C CONTROL PLAN FOR SN 037-0005 & 037-0006	F.A.I RTF.	SECTION	COUNTY	SHEET NO.
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	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		STAGE II			CONTRACT	NO. 64K81
Default	PLOT DATE = Jun-02-2015 02:51:59 PM	DATE	REVISED		SCALE:	SHEET OF SHEETS STA TO STA		ILLINOIS FED. A		

TRAFFIC CONTROL PLAN — STAGE II FOR SN 037-0005 & 037-0006 TEMPORARY PAVEMENT MARKING LINE, 4" WHITE-TEMPORARY PAVEMENT MARKING LINE, 4" YELLOW 150'/ SHIFT 150' SHIFT 40' 50′ 80' CTS 8 8 <u> 387+75</u> STA MATCHLINE 80' CTS 880+75 0' 886+20\ 7′ I T \<u>887+70</u> 885+89.4 END 150' SHIFT WORK ZONE 150' SHIF 50′ 25′ 40' 280' SPEED LIMIT IMPACT ATTENUATOR G20-I103(0)-3660 TEMPORARY PAVEMENT MARKING LINE, 4" YELLOW TEMPORARY PAVEMENT MARKING LINE, 4" WHITE 881+25 **SYMBOLS NOTES** (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be Work area white for right lane closure and yellow for left lane closures. ⊧ Sign (2) Barrier wall/guardrail markers at 25′ (7.6 m). ↑ Direction indicator barricade with Markers on right shall be shall be crystal and steady burn monodirectional light markers on left shall be amber. → Type II barricade or drum with (3) Offsets shown are from the centerline pavement steady burn monodirectional light marking of the direction of travel. Temporary concrete barrier 4 Barrier wall offsets are to the construction side of the barrier wall. (5) Refer to Highway Standard 701402 for • Drums with steady burning monodirectional light additional details not shown. DESIGNED REVISED SECTION TRAFFIC CONTROL PLAN FOR SN 037-0005 & 037-0006 STATE OF ILLINOIS rs SN 037-0005 & 037-0006\CADD\D203215-sht-cover.d DRAWN REVISED 74/280 (37-1HB-1R)M HENRY 26 14 STAGE II LOT SCALE = 100.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 64K81

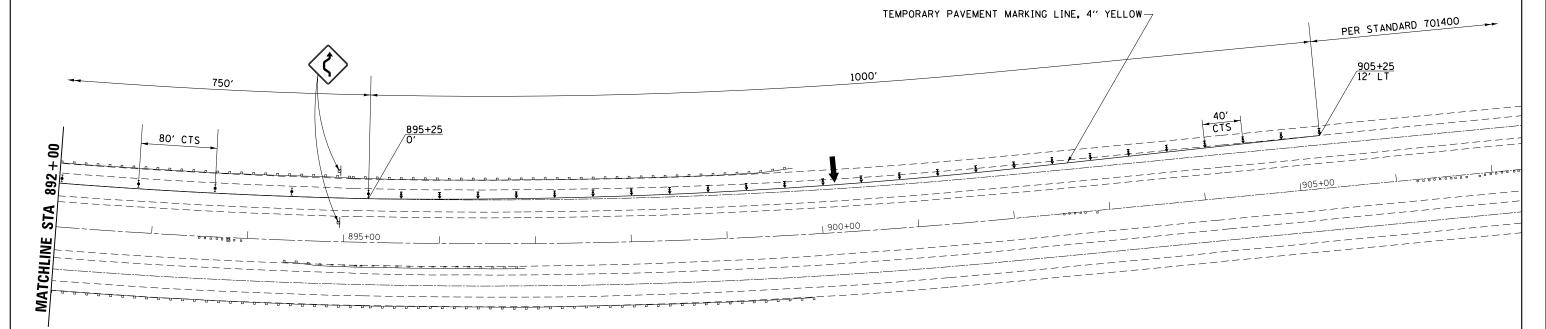
SHEET

SHEETS STA.

PLOT DATE = Jun-02-2015 02:52:04 PM

DATE

REVISED





Arrow boo

Work area

⊧ Sign

- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

Temporary concrete barrier

₩ Impact attenuator

• Drums with steady burning monodirectional light

NOTES

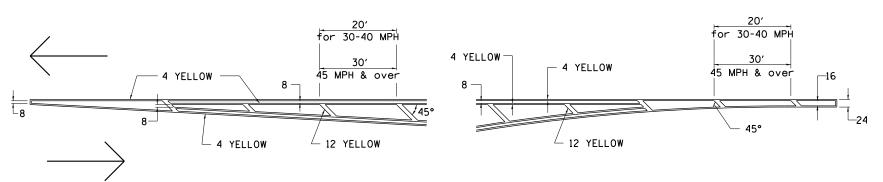
- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- (2) Barrier wall/guardrail markers at 25′ (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- 3 Offsets shown are from the centerline pavement marking of the direction of travel.
- $\stackrel{\hbox{\scriptsize (4)}}{}$ Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

	TION COUNTY SHEETS NO.
10:\BR\Doss_Henru\64K81 Repairs SN 037-0005 & 037-0006\CADD\D203215-sht-cover.don DRAWN - REVISED - STATE OF ILLINOIS	3-1R)M HENRY 26 15
PLOT SCALE = 100.00000 // 10. CHECKED REVISED DEPARTMENT OF TRANSPORTATION	CONTRACT NO. 64K81
Default PLOT DATE = Jun-02-2015 02:52:48 PM DATE REVISED SHEET OF _ SHEET	ILLINOIS FED. AID PROJECT

TYPICAL PAVEMENT MARKINGS

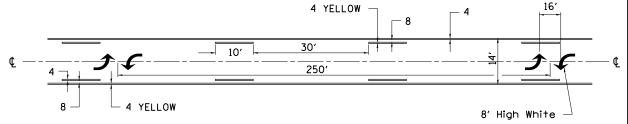
MEDIAN PAVEMENT MARKING

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



−8 WHITE

-24 WHITE



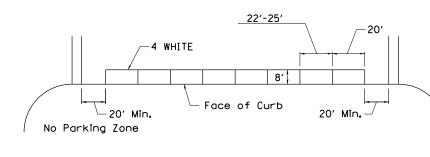
TYPICAL ISLAND OFFSET SHOULDER WIDTH

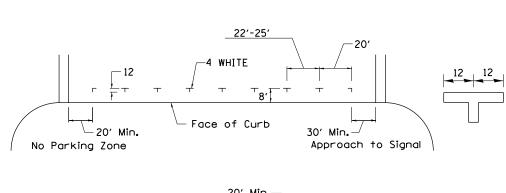
24 WHITE

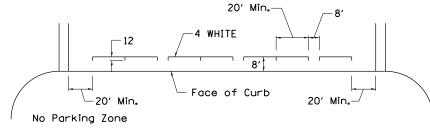
8 WHITE

SET SHOULDER WIDTH

TYPICAL PARKING SPACING



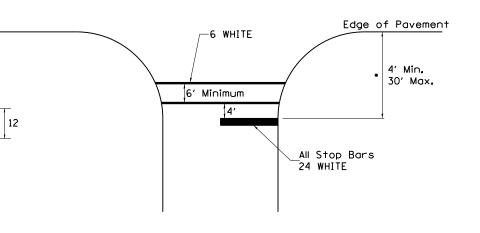




•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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 = dossdd	DESIGNED	-	_	REVISED	-	<u>3-0</u> 5-12
0:\BR\Doss_Henry\64K81 Repairs SN 037-0	005 & 037-0006\CADD\D203215-sht-cover.dgn	DRAWN	-	_	REVISED	-	_
	PLOT SCALE = 100.0000 '/ in.	CHECKED	-	_	REVISED	-	_
	PLOT DATE = Jun-02-2015 02:52:54 PM	DATE	-		REVISED	-	_

5 Diagonals

Minimum

-12 WHITE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

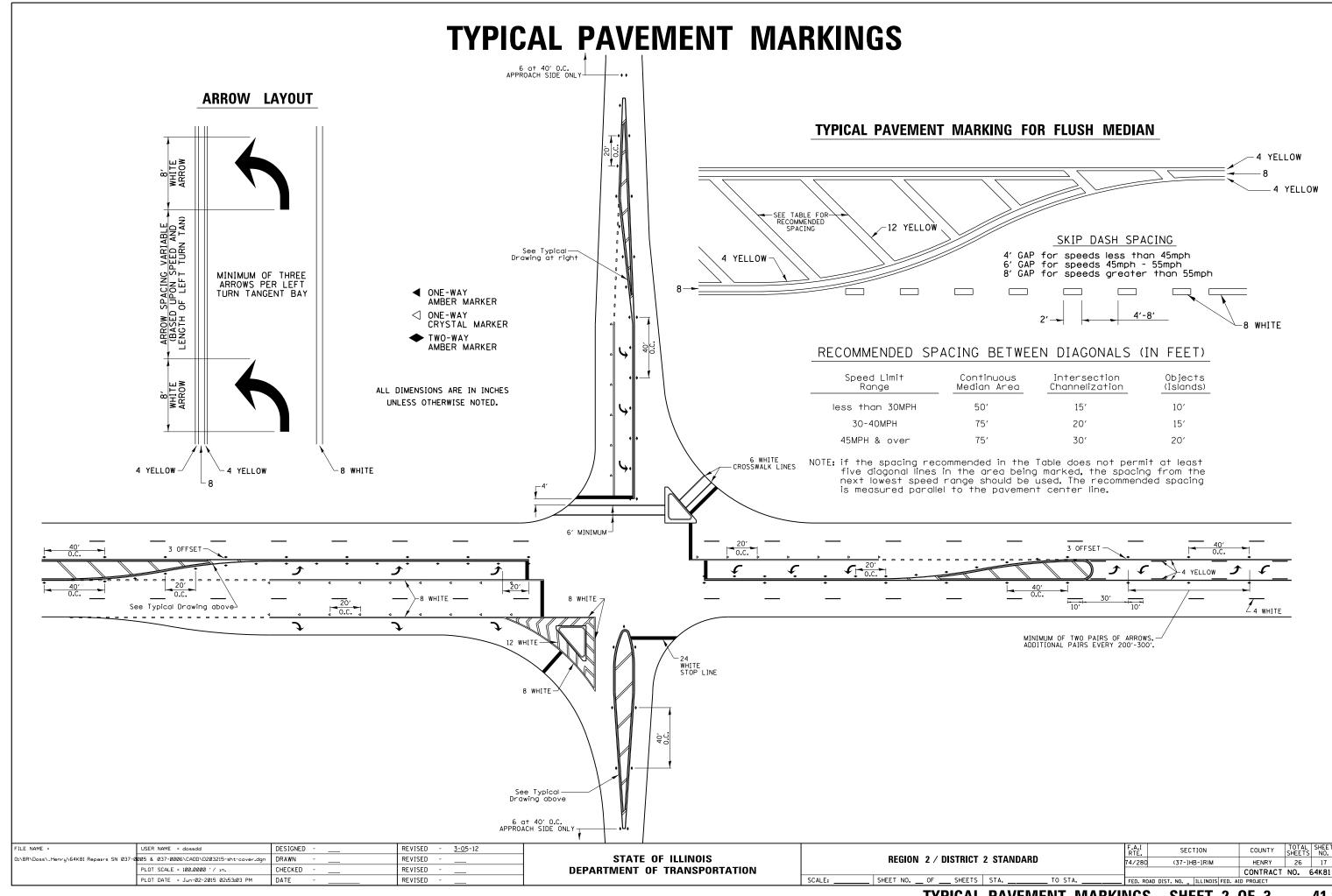
| REGION 2 / DISTRICT 2 STANDARD | SHEET NO. __ OF __ SHEETS | STA. _____ TO STA. ____

SCALE:

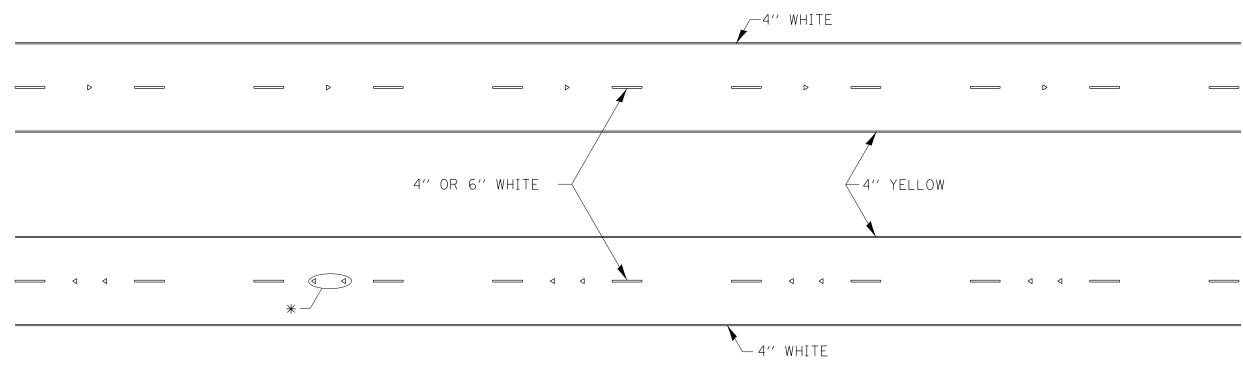
F.A.I RTE. SECTION COUNTY TOTAL SHEETS NO.

74/280 (37-1HB-1R)M HENRY 26 16

CONTRACT NO. 64K81



TYPICAL PAVEMENT MARKINGS

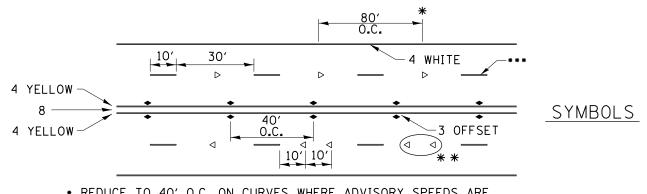


* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS. USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED

30'

YELLOV



- * 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)

DESIGNED REVISED - <u>8-27</u>-13 rs SN 037-0005 & 037-0006\CADD\D203215-sht-cover.da DRAWN REVISED - <u>11-2</u>8-12 PLOT SCALE = 100.0000 '/ in. CHECKED REVISED PLOT DATE = Jun-02-2015 02:53:08 PM REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY REGION 2 / DISTRICT 2 STANDARD 74/280 (37-1HB-1R)M HENRY CONTRACT NO. 64K81 SCALE: SHEET NO. __ OF ___ SHEETS STA.

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3

EDGE OF PAVEMENT

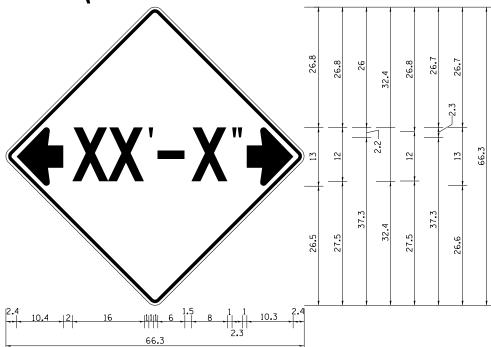
WHITE

WHITE-

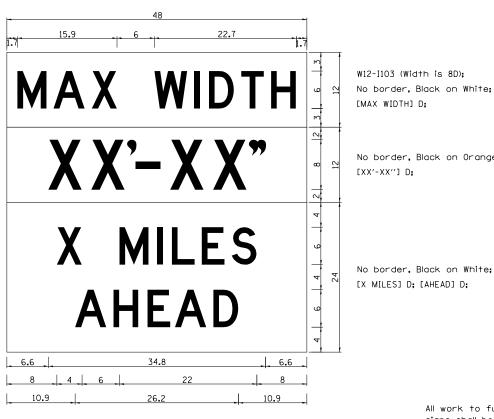
26 18

PAINTING DETAILS EXIT RAMP NOTE: GORE HATCHING PLACED ONLY EOP-4 YELLOW WHEN SCHEDULED IN THE PLANS -4 OR 6 WHITE 12 WHITE 30' CENTERS 4 WHITE7 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. 10' SHOULDER ∕-4' SHOULDER 8' SHOULDER 4 YELLOW EOP · 4 YELLOW ∠ OPTIONAL METHOD FOR HIGH VOLUME OFF RAMPS ENTRANCE RAMP 4 OR 6 WHITE 4 WHITE— EOP : 10' SHOULDER 30' 10′ 8 WHITE 8' SHOULDER ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. 4 YELLOW 4 YELLOW CLOVERLEAF 10' SHOULDER 10' SHOULDER 4 WHITE-10' SHOULDER 8 WHITE 8 WHITE EOP 4 WHITE 4 YELLOW 4 YELLOW EOP -200' (TYP.) (TAPER LENGTH AS DIRECTED BY THE ENGINEER) DESIGNED REVISED - <u>8-2</u>7-13 SECTION COUNTY STATE OF ILLINOIS REVISED - <u>10-1</u>8-11 REGION 2 / DISTRICT 2 STANDARD 0:\BR\Doss_Henru\64K81 Repairs SN 037-0005 & 037-0006\CADD\D2032I5-sht-cover.do DRAWN (37-1HB-1R)M HENRY 26 19 74/280 PLOT SCALE = 100.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 64K81 PLOT DATE = Jun-02-2015 02:53:13 PM DATE REVISED SCALE: SHEET NO. __ OF ___ SHEETS STA.

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



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°



No border, Black on Orange;

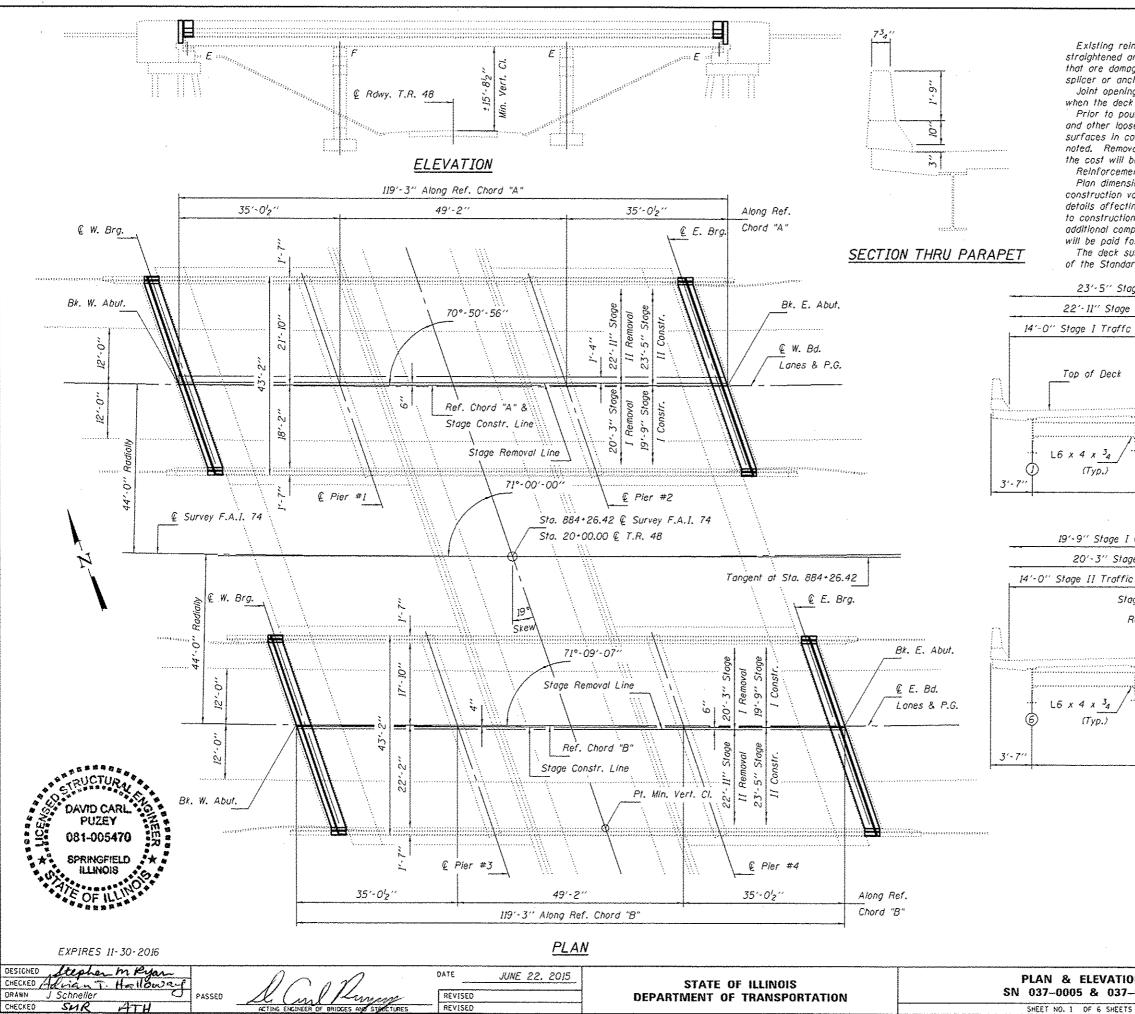
No border, Black on White;

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

REVISED						SECTION	COUNTY	TOTAL	SHEET NO.
REVISED	REGION 2	2 / DISTRICT	2 STANDARD		RTE. 74/280	(37-1HB-1R)M	HENRY	26	20
REVISED							CONTRACT		64K81
REVISED -	SCALE: 100.0000 / 17.SHEET NO.	OF SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. TILLINGIS FED. A	ID PROJECT		



GENERAL NOTES

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.

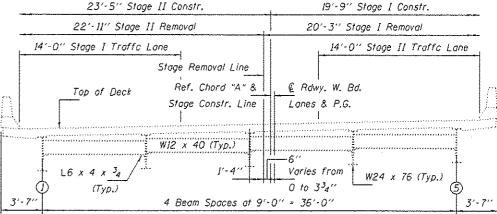
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F,

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.

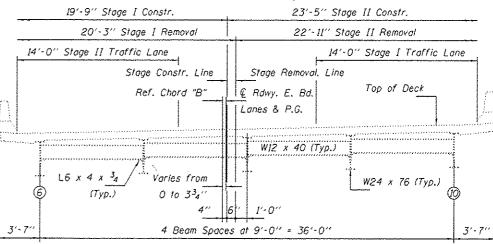
Reinforcement bars designated (E) shall be epoxy coated.

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.

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



CROSS SECTION (West Bound Lanes Looking East)



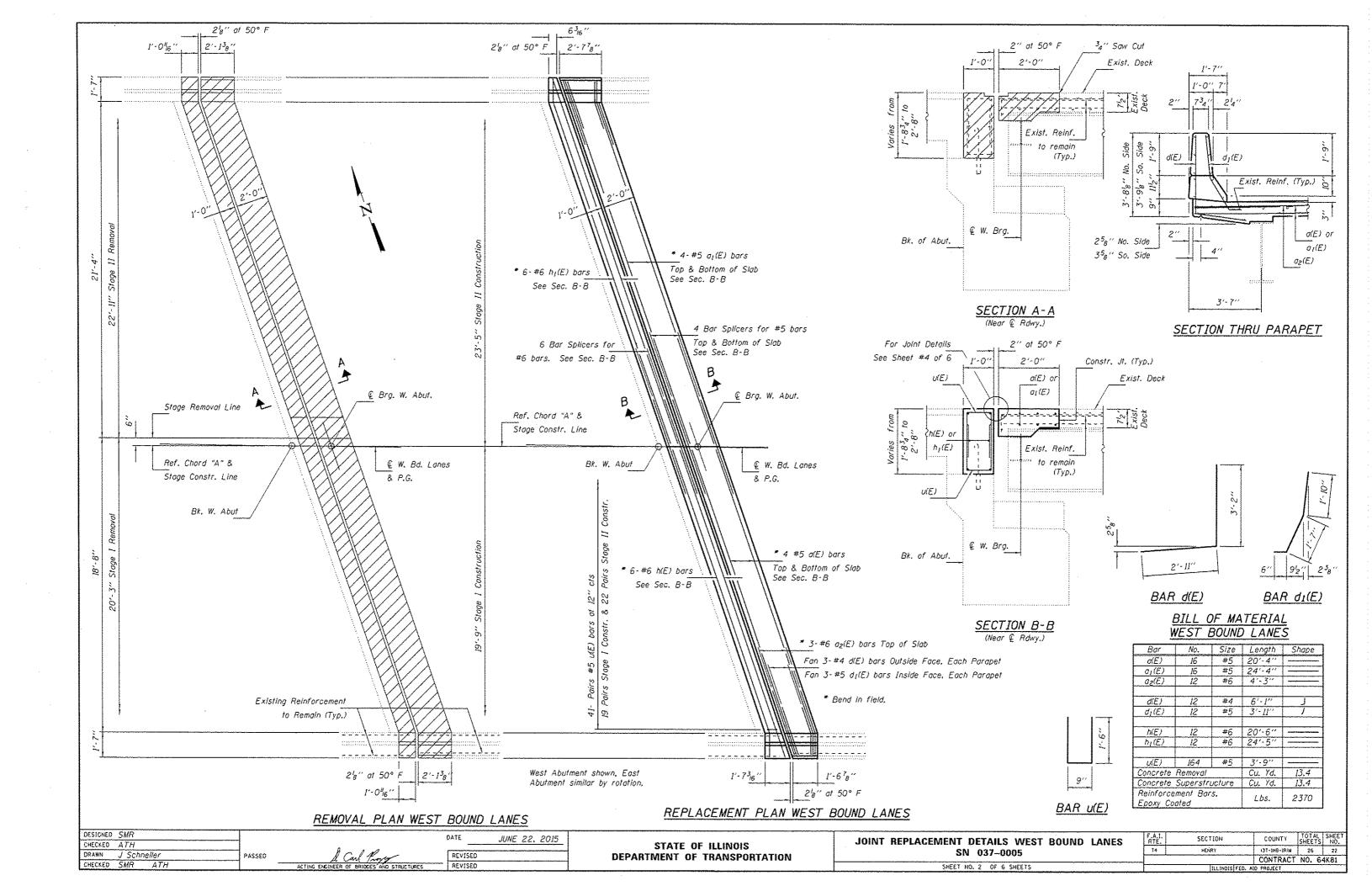
CROSS SECTION (East Bound Lanes Looking East)

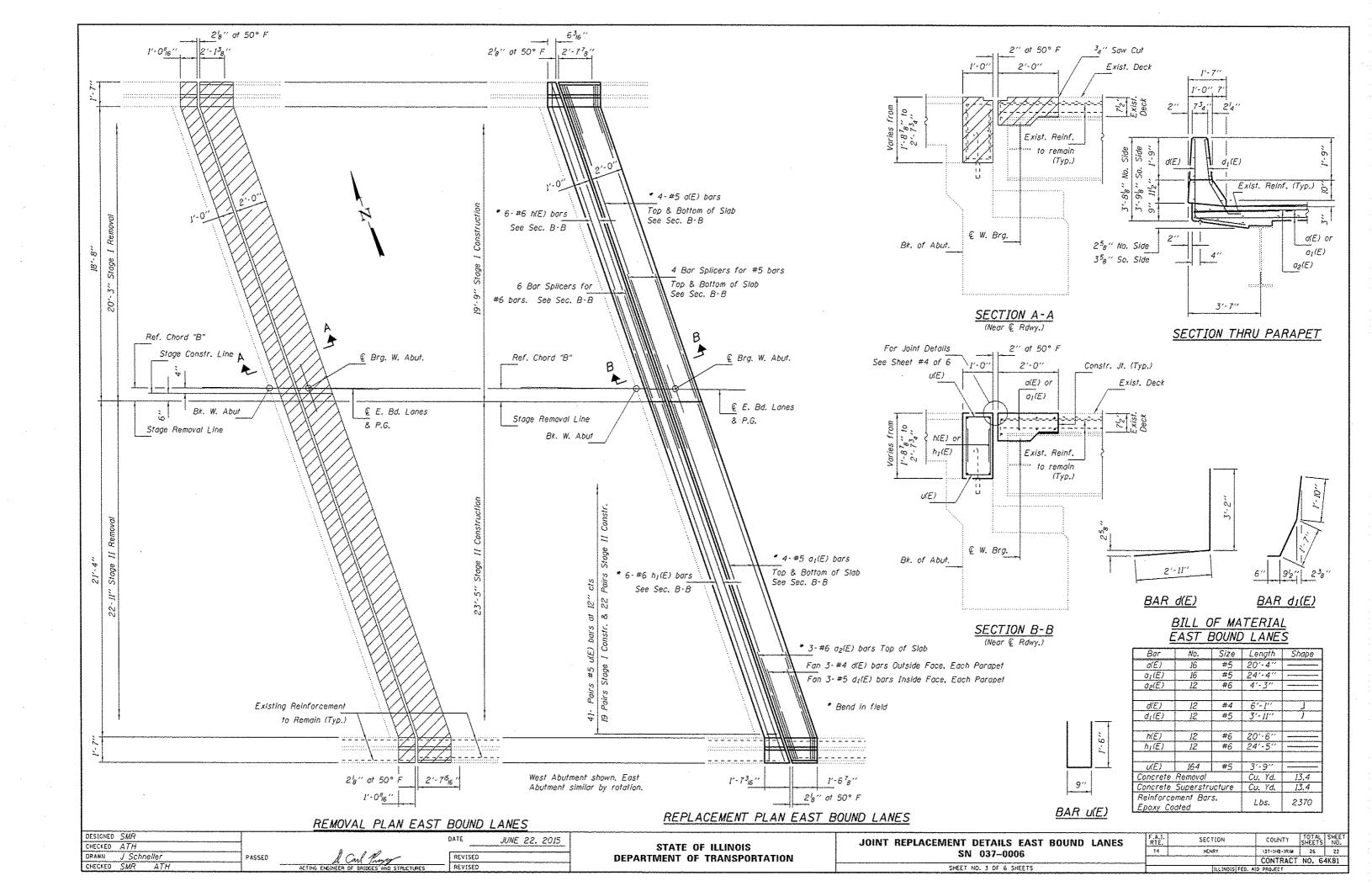
TOTAL BILL OF MATERIAL

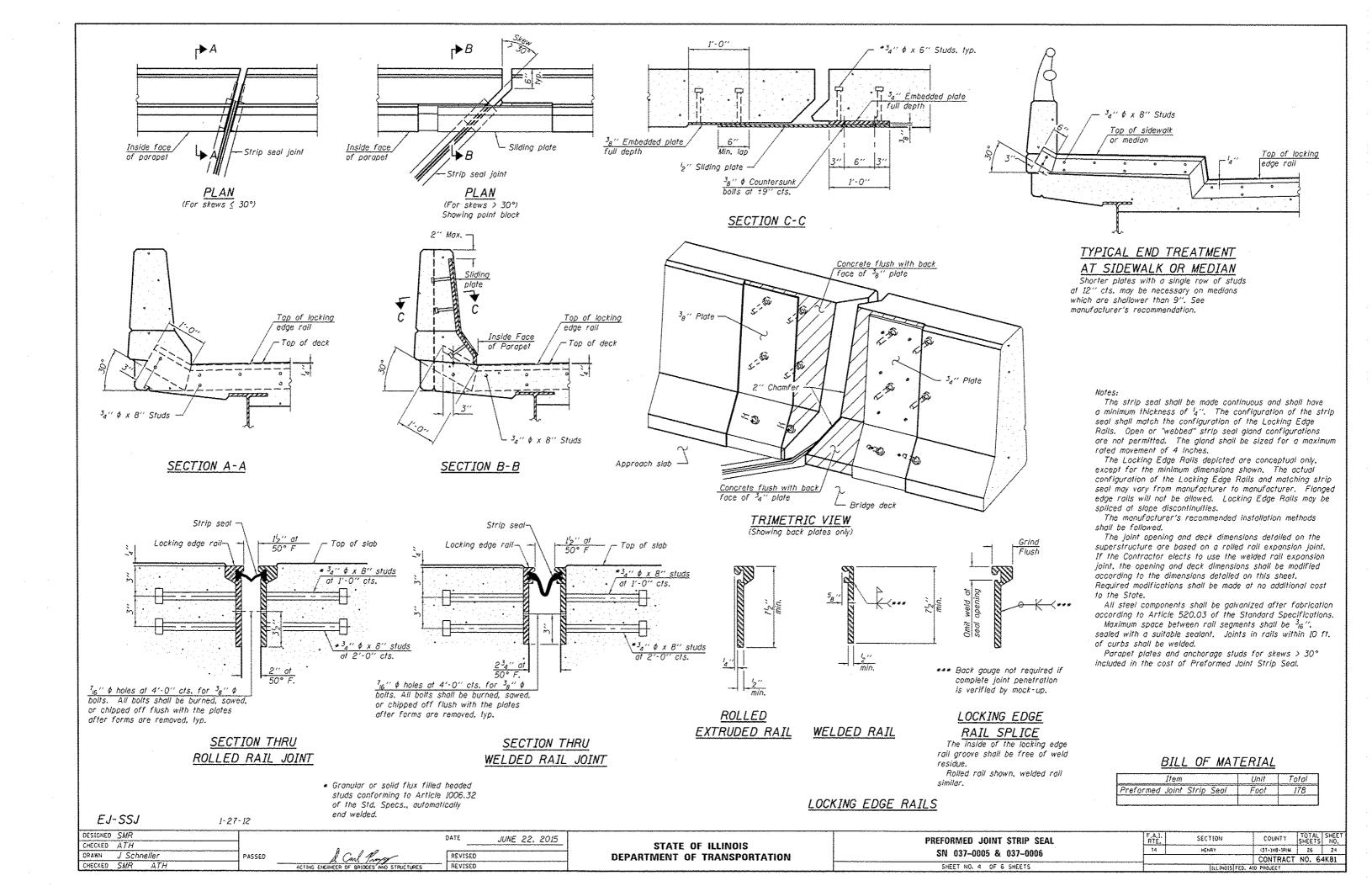
UNIT	QUANTITY
Cu. Yd.	26.8
Cu. Yd.	26.8
Foot	178
Pound	4740
Each	56
Sg. Yd.	66.6
1	
	Cu. Yd. Cu. Yd. Foot Pound Each

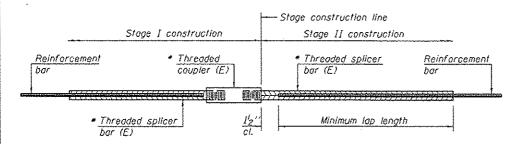
PLAN & ELEVATION SN 037-0005 & 037-0006

COUNTY TOTAL SHEET NO. SECTION HENRY CONTRACT NO. 64K81









STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths							
Bar size to be spliced	Table I	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, 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

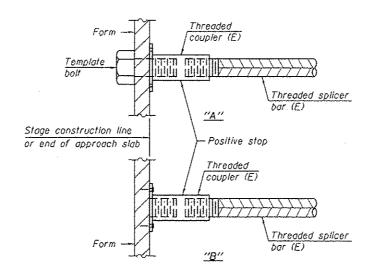
Table 5: Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min, lap length + $I_2^{\prime\prime}$ + thread length

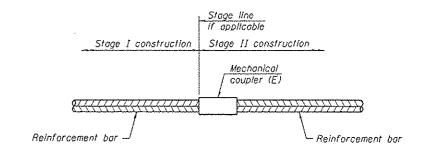
 Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Bar size	No. assemblies required	Table for minimum lap length
#6	12	3
#5	16	3
#6	12	3
#5	16	3
	#6 #5	#6 12 #5 16



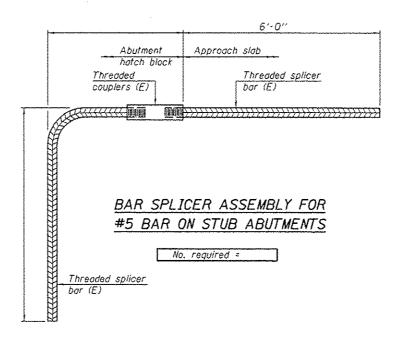
INSTALLATION AND SETTING METHODS

"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	Bor size	No. assemblies required		



<u>NOTES</u>

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

DRAWN J Schneller

CHECKED SMR ATH

DESIGNED SMR

CHECKED ATH

8-31-12 PASSED

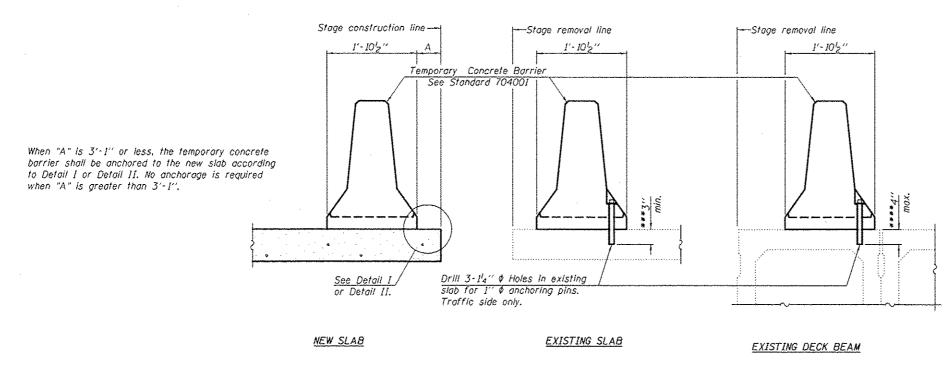
A Carl Frager ING ENCINEER OF BRIDGES AND STRUCTURE

DATE JUNE 22. 2015
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 037-0005 & 037-0006

SHEET NO. 5 DF 6 SHEETS



NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1) I' x 7' x "W" steel £ to the top layer of couplers with 2-5g" \$\phi\$ bolts screwed to coupler at approximate \$\mathbb{C}\$ of each barrier panel.

Detail II - With Extended Reinforcement Bars:

Connect one (1) I'' x 7'' x ''W'' steel P to the concrete slab or concrete wearing surface with 2-5g'' \$\phi\$

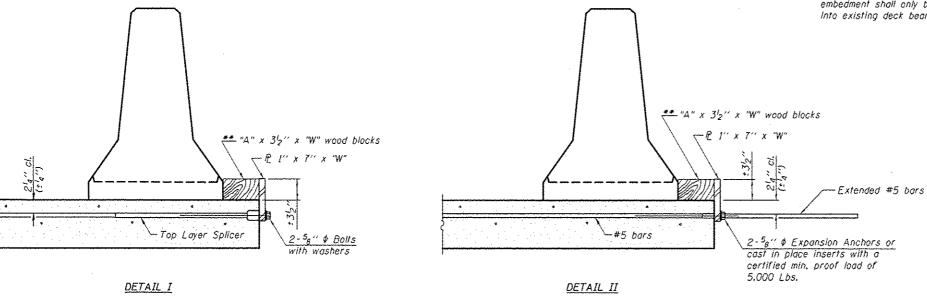
Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathbb{C}\$ of each barrier panel.

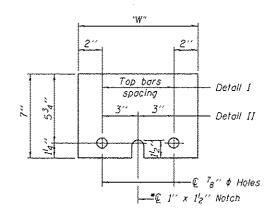
Cost of retainer assembly is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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.





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

* Required only with Detail II

RETAINER ASSEMBLY

** 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.

DESIGNED	SMR	
CHECKED	ATH	
DRAWN	J Schneller	PASSED
CHECKED	SMR ATH	-

1-12-15

R-27

A CON Proper ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JUNE 22, 2015

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
SN 037-0005 & 037-0006

SHEET NO. 6 OF 6 SHEETS

A.I. SECTION COUNTY TOTAL SHEETS NO.

14 HENRY (37-1HB-JRIM 26 26

CONTRACT NO. 64K81