03-03-2017 LETTING ITEM 068

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR STATE STANDARDS, SEE SHEET NO. 2

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

D2 BDR 2017-2



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

# **PROPOSED HIGHWAY PLANS**

FAP ROUTE 742 (IL 2)

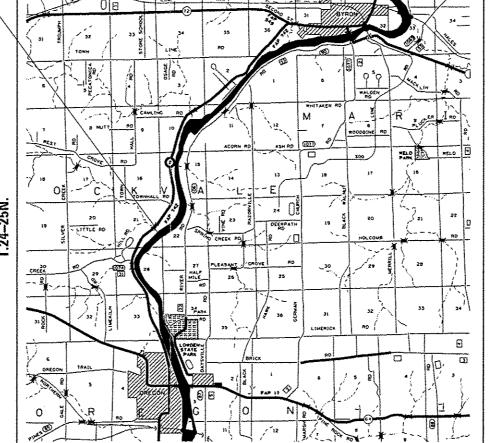
C-92-008-17 **R.10E** 

SECTION D2 BDR 2017-2 TYPE of IMPROVEMENT: BRIDGE REHAB **OGLE COUNTY** 

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

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



SN 071-0024 OGLE COUNTY - ROCKVALE TOWNSHIP - SECTION 21

627 553%

TARAGO

CONTRACT NO. 64L80

# INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	STAGING TYPICAL
6-7	TRAFFIC CONTROL PLAN - STAGE I FOR SN 071-0024
8-9	TRAFFIC CONTROL PLAN - STAGE II FOR SN 071-0024
10-12	TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
13	PAINTING DETAILS (DIST STD 44.1)
14	GENERAL PLAN AND ELEVATION FAP 742 (IL 2) OVER SILVER CREEK SN 071-0024
15	REPAIR DETAILS SN 071-0024
16	PREFORMED JOINT STRIP SEAL SN 071-0024
17	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 071-0024
18	SUBSTRUCTURE REPAIR DETAILS SN 071-0024

# 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

701201 - 04 LANE CLOSURE, 2L. 2W, DAY ONLY, FOR SPEEDS 2 45 MPH

701301 - 04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311 - 03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

701321 - 16 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

701901 - 06 TRAFFIC CONTROL DEVICES

704001 - 08 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.

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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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STATE STANDARDS							
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	ILLINOIS FED. A	O PROJECT		
		CONTRACT	NO. 6	41.80
42	02 BDR 2017-2	OGLE	18	2
λ.Ρ. Ε.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.

# SUMMARY OF QUANTITIES

	20MINIARY OF GOAMILIES		100% STATE	100% STATE
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	OGLE COUNTY
42001300	PROTECTIVE COAT	SQ YD	18.7	18.7
50102400	CONCRETE REMOVAL	CU YD	7	7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	7.5	7.5
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	311	3/1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	850	850
50800515	BAR SPLICERS	EACH	12	12
52000110	PREFORMED JOINT STRIP SEAL	FOOT	84	84
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	2
70106700	TEMPORARY RUMBLE STRIPS	EACH	2	2
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	2,491	2,491
70400100	TEMPORARY CONCRETE BARRIER	FOOT	562.50	562.50
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550.0	550.0



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Di\BR\Doss\_Dgle\64L80 Bridge Repairs S	871-8824\CADD\&4L88-sht-oover.dgn	DRAWN -	REVISED	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	742 D2 BDR 2017-2 OGLE 18 3
	PLOT SCALE * 188.9988 1/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 64L80
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# SUMMARY OF QUANTITIES

	SUMMANT OF COAMITIES		100% STATE	100% STATE
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	OGLE
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2	EACH	2	2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2	EACH	2	2
78007110	PERMANENT PAVEMENT MARKING - LINE 4"	FOOT	985	985
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,159	1,159
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ YD	500.9	500.9
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	500.9	500.9
Z0012754	STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ FT	60	60
Z0012755	STRUCTURAL REPAIR OF CONCRETE > 5"	SQ FT	30	30
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	500.9	500.9
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	6	6
Z001600	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YP	5	5
# SPECIAL T			1	

10 \* SPECIALTY ITEMS

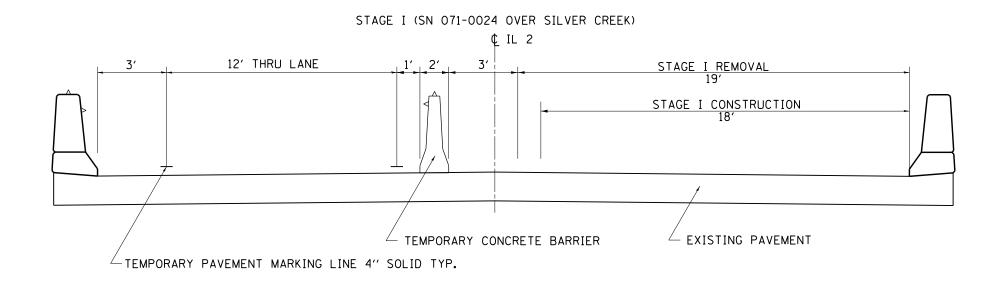
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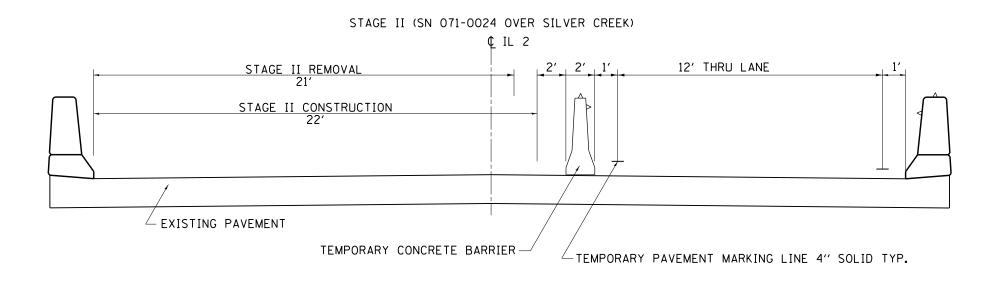
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**SUMMARY OF QUANTITIES** SHEET \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

SECTION DZ BDR 2017-2

# **STAGING TYPICALS**

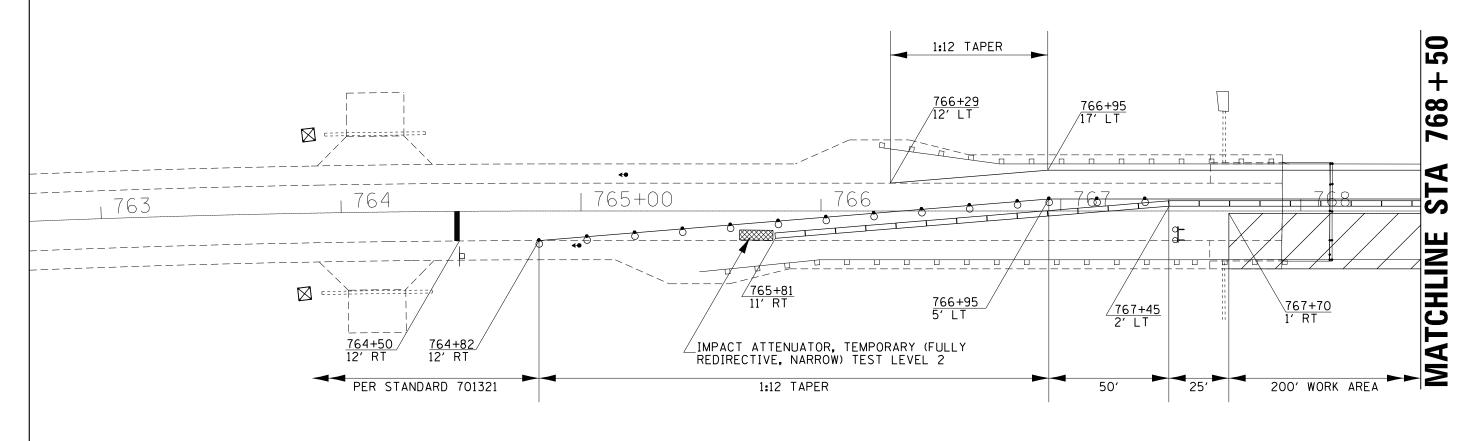




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# TRAFFIC CONTROL PLAN — STAGE I FOR SN 071-0024





### **SYMBOLS**

Work area

Drum with steady burning bi-directional light

Sign

Temporary concrete barrier

Type III barricade with flashing lights

Double vertical panel (see detail)

Traffic signal

Detector loops

Crystal, bidirectional guardrail/barrier wall reflector

### 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 701321 for additional details not shown.

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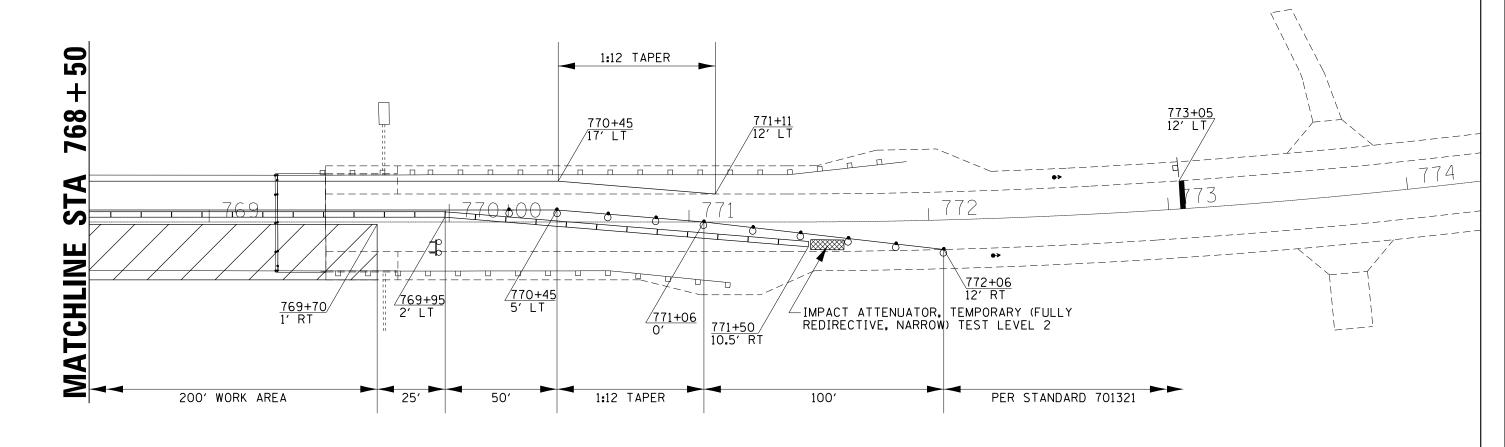
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Impact attenuator

TRAFFIC CONTROL PLAN - STAGE I FOR SN 071-0024					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					742	D2 BDR 2017-2	OGLE	18	6
FUN 3N 0/1-0024							CONTRACT	NO. 6	54L80
SHEET	0F SH	EETS	STA	TO STA		ILLINOIS FED.	AID PROJECT		

# TRAFFIC CONTROL PLAN - STAGE I FOR SN 071-0024





## SYMBOLS

Work

Work area

Traffic signal

Detector loops

Impact attenuator

Drum with steady burning bi-directional light

Type III barricade with flashing lights

Temporary concrete barrier

Temporary rumble strip (when specified)

Double vertical panel (see detail)

Crystal, bidirectional guardrail/barrier wall reflector

### <u>NOTES</u>

- (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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COUNTY

OGLE 18 7
CONTRACT NO. 64L80

(5) Refer to Highway Standard 701321 for additional details not shown.

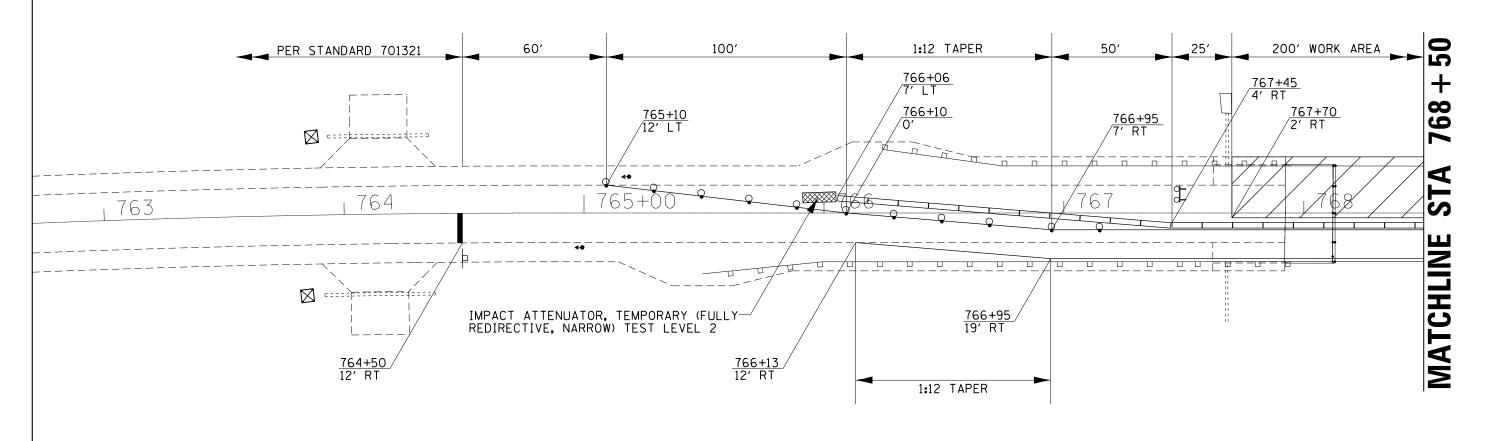
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STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

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# TRAFFIC CONTROL PLAN - STAGE II FOR SN 071-0024





### **SYMBOLS**

☑ Work area ● Drum with steady burning bi-directional light

Temporary concrete barrier

Type III barricade with flashing lights
Traffic signal Temporary rumble strip (when specified)

Double vertical panel (see detail)

Crystal, bidirectional guardrail/barrier wall reflector

### 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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- $\stackrel{\hbox{\scriptsize (4)}}{}$  Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701321 for additional details not shown.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

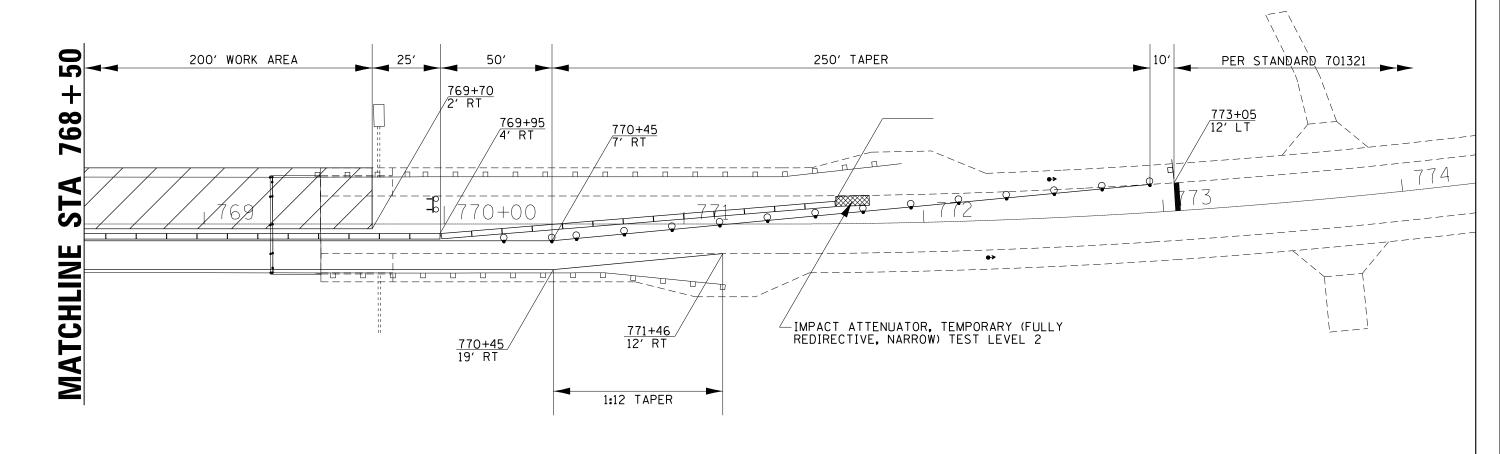
Detector loops

Impact attenuator

TRAFFIC CONTROL PLAN - STAGE II		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	FOR S	N 071-	0024		742	D2 BDR 2017-2	OGLE	18	8
	1011 3	14 0/1-	0024				CONTRACT	NO. (	54L80
SHEET	0F	SHEETS	STA.	TO STA		ILLINOIS FED. A	ID PROJECT		

# TRAFFIC CONTROL PLAN - STAGE II FOR SN 071-0024





### **SYMBOLS**

Work area • Drum with steady burning bi-directional light Temporary concrete barrier

Type III barricade with flashing lights Temporary rumble strip (when specified)

Double vertical panel (see detail)

Crystal, bidirectional auardrail/barrier wall reflector

### **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.
- $\bigodot$  Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- $\overline{(3)}$  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.

				Impact attenuator	gadi di dii) barrior wali remeere		hway Standard 701321 tails not shown.	for
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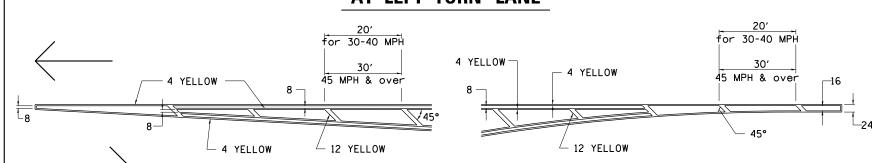
← Traffic signal

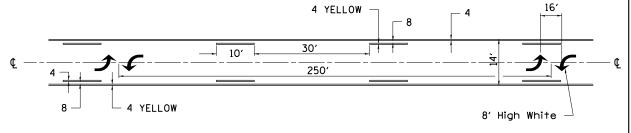
☐ ♦ Detector loops

## **TYPICAL PAVEMENT MARKINGS**

### **MEDIAN PAVEMENT MARKING**

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



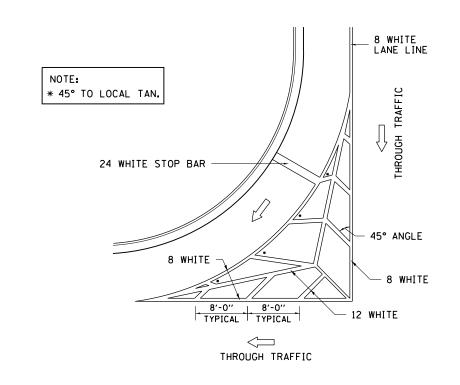


.. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

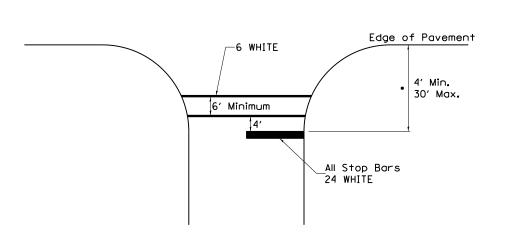
# 24 WHITE -−8 WHITE -24 WHITE 8 WHITE 5 Diagonals Minimum -12 WHITE

## TYPICAL MARKING FOR **PAINTED ISLANDS**



### STANDARD CROSSWALK MARKING

See Schedules for Locations



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

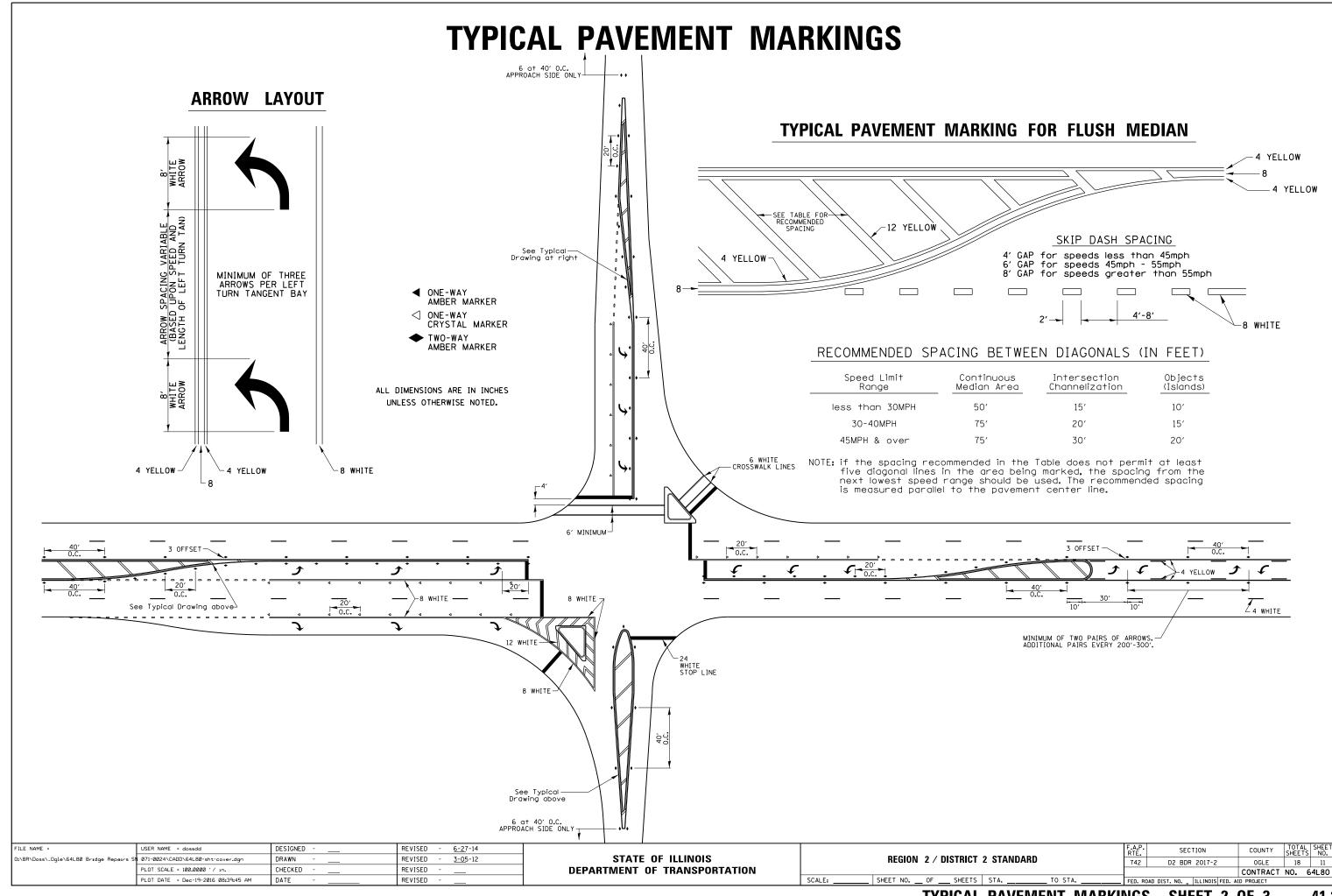
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

REGION 2 / DISTRICT 2 STANDARD SHEET NO. \_\_ OF \_\_\_ SHEETS STA. TO STA.

SECTION D2 BDR 2017-2 CONTRACT NO. 64L80

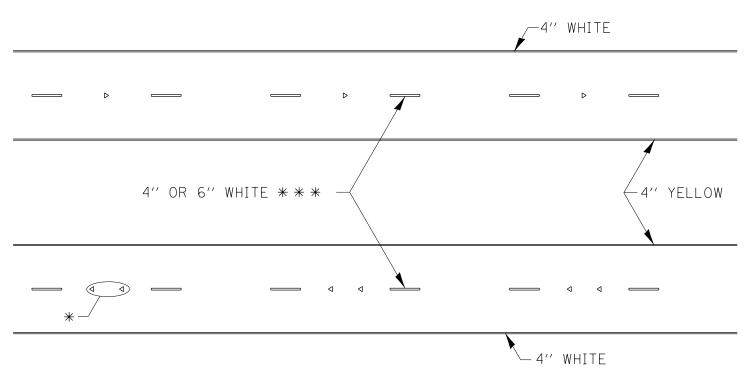
OGLE 18 10



## **TYPICAL PAVEMENT MARKINGS**

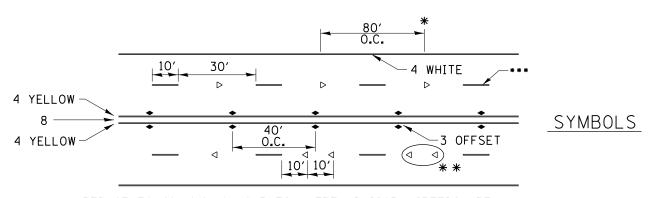
### TYPICAL PARKING SPACING

22′-25′



\* 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)

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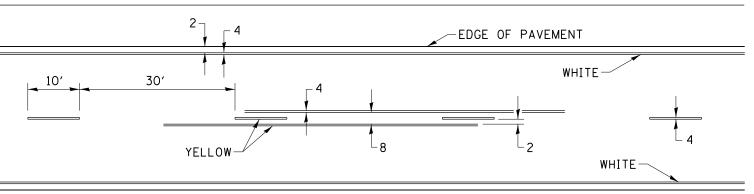
### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

#### SECTION REGION 2 / DISTRICT 2 STANDARD D2 BDR 2017-2 OGLE CONTRACT NO. 64L80 SCALE: SHEET NO. \_\_ OF \_\_\_ SHEETS STA. TO STA.

## -4 WHITE 8′ Face of Curb – 20′ Min. 20' Min. -No Parking Zone 22'-25' -4 WHITE Face of Curb 30' Min. — Approach to Signal No Parking Zone 20' Min.-Face of Curb 20' Min.-

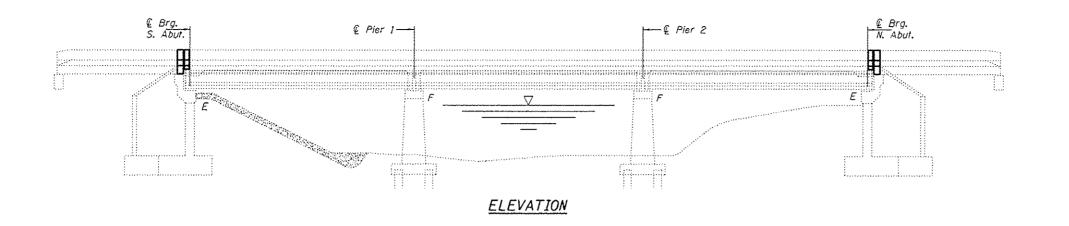
### TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

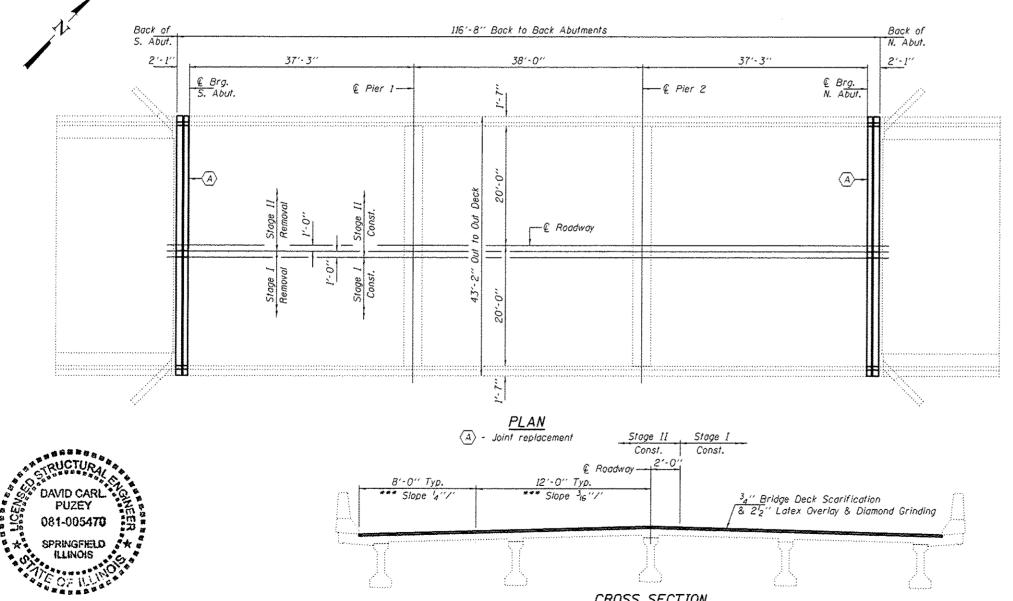
No Parking Zone



18 12

### **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) COUNTY TOTAL SHEET NO. OGLE 18 13 CONTRACT NO. 64L80 DESIGNED REVISED - <u>8-2</u>7-13 SECTION STATE OF ILLINOIS REVISED - <u>10-1</u>8-11 REGION 2 / DISTRICT 2 STANDARD 0:\BR\Doss\\_Ogle\64L80 Bridge Repairs 071-0024\CADD\64L80-sht-cover.dar DRAWN D2 BDR 2017-2 742 PLOT SCALE = 100.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = Dec-19-2016 08:39:56 AM DATE REVISED SCALE: SHEET NO. \_\_ OF \_\_\_ SHEETS STA.





\*\*\* Match existing cross slope.

CROSS SECTION

JANUARY 18, 2017 REVISED

Expires: November 30. 2018

PASSED

DESIGNED -

CHECKED -

CHECKED - CONTROL OF C

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**GENERAL PLAN & ELEVATION** FAP 742 (ILLINOIS ROUTE 2) OVER SILVER CREEK SN 071-0024 SHEET NO. 1 OF 5 SHEETS

### TOTAL SHEET SHEETS NO. 18 14 COUNTY D2 BDR 2017-2 OGLE CONTRACT NO. 64Z80

### 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 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.

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. Synthetic fiber shall be added to the Bridge Deck Latex overlay. See

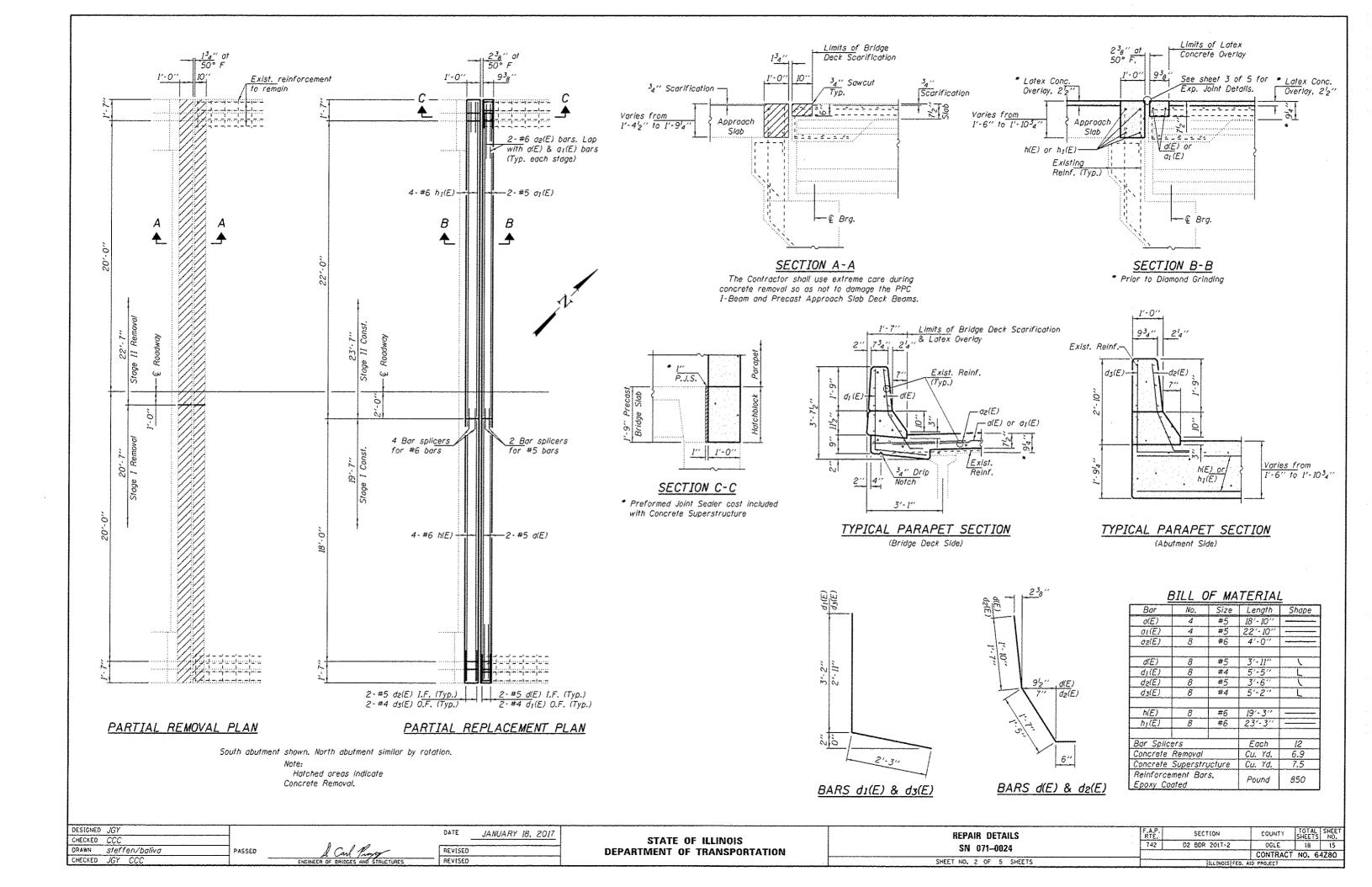
Special Provisions.

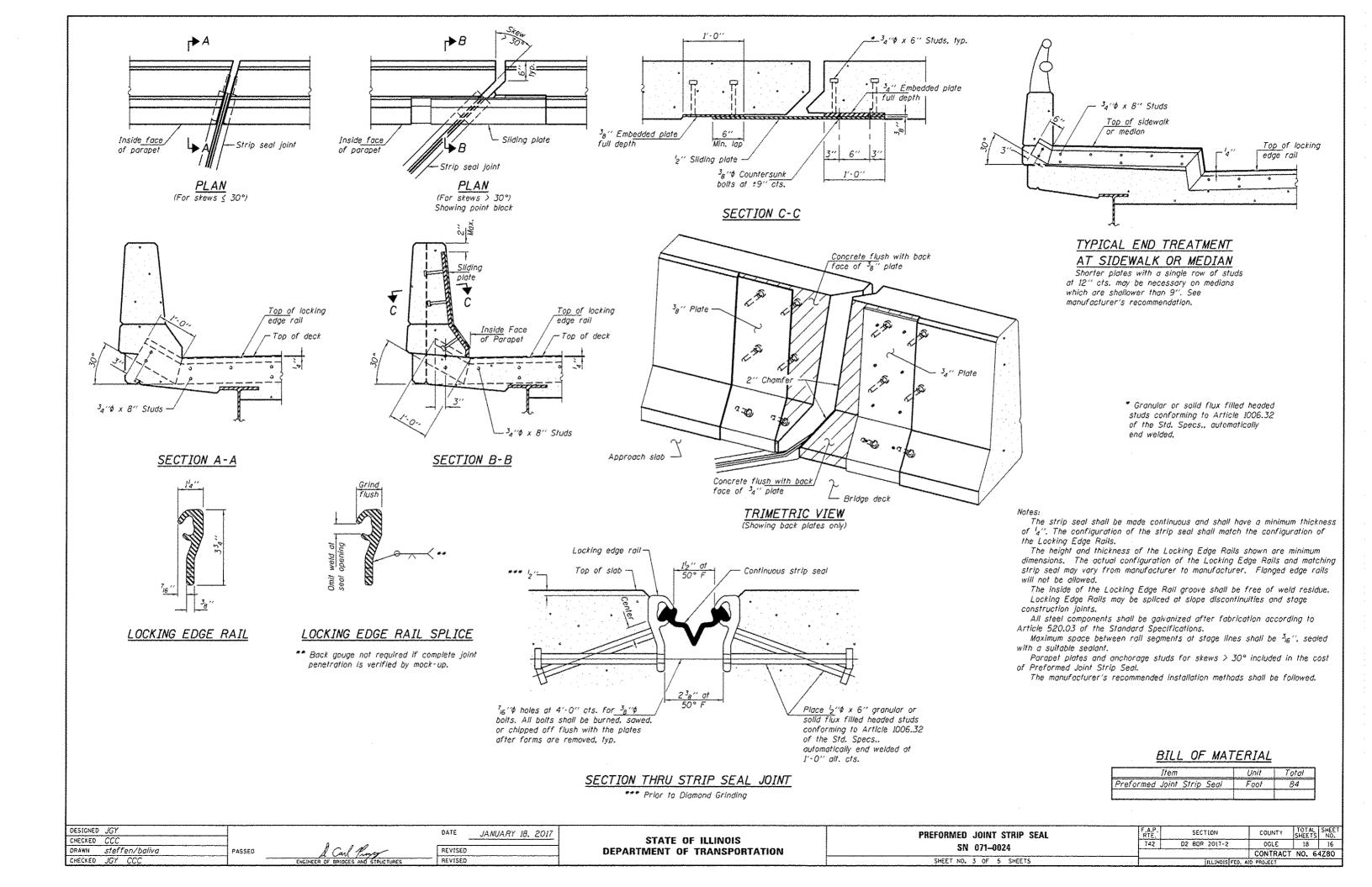
### TOTAL BILL OF MATERIAL

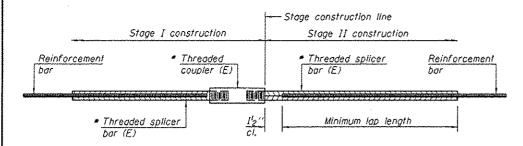
ITEM	UNIT	OUANTITY
Concrete Removal	Cu. Yd.	7.0
Concrete Superstructure	Cu. Yd.	7.5
Bridge Deck Scarification 34''	Sq. Yd.	500.9
Bridge Deck Latex Concrete Overlay, 212"	Sa. Yd.	500.9
Diamond Grinding	Sq. Yd.	516.7
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	311
Protective Coat	Sq. Yd.	18.7
Reinforcement Bars. Epoxy Coated	Pound	850
Bar Splicers	Each	12
Preformed Joint Strip Seal	Foot	84
Structural Repair of Concrete ≤5"	Sg. Ft.	48
Structural Repair of Concrete > 5"	Sq. Ft,	21
Temporary Shoring and Cribbing	Each	6
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5

\* Quantities are estimated. Actual locations and quantities to be determined by the Engineer in the field.

\*\* On new concrete superstructure areas only.





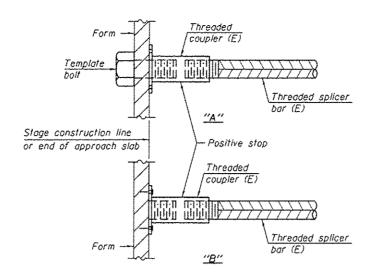


### STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 112" + thread length

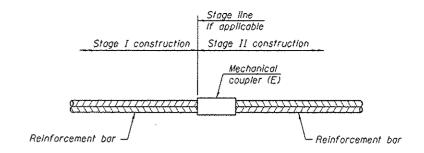
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum Iap length
N. Abut. Hatch Block	#6	4	4'-0"
N. Abut. Deck	#5	2	3'-6"
5. Abut. Hatch Block	#6	4	4'-0"
S. Abut. Deck	#5	2	3'-6''



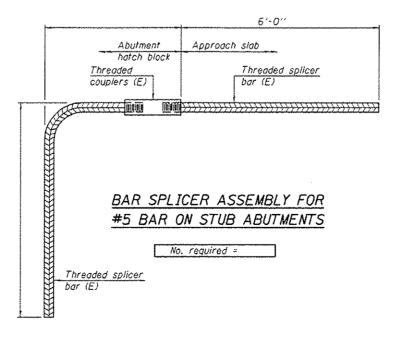
### INSTALLATION AND SETTING METHODS

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



### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
	-	
	<u> </u>	· · · · · · · · · · · · · · · · · · ·
	†	



### 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

6-8-15

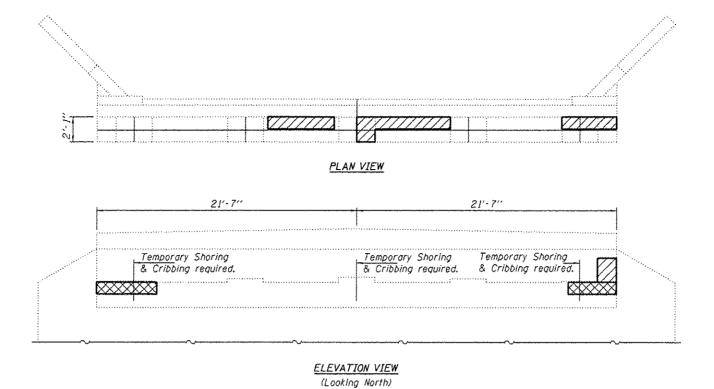
DESIGNED JGY		DATE	JANUARY 18. 2017
CHECKED CCC	<b>A</b> -		3711477777 201 2011
DRAWN steffen/baliva	PASSED & Carl Proper	REVISED	
CMECKED JGY CCC	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

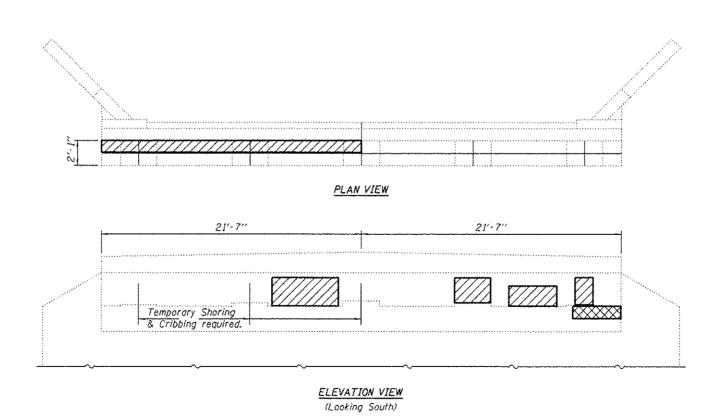
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

SN 071-0024

SHEET NO. 4 OF 5 SHEETS



### NORTH ABUTMENT



## BILL OF MATERIAL

	ITEM	UNIT	OUANTITY
*	Structural Repair of Concrete ≤5"	Sq. FI,	48
*	Structural Repair of Concrete > 5"	Sq. Ft.	21
	Temporary Shoring and Cribbing	Each	6

REACTION TABLE AT TEMPORARY SHORING

Q (k) 24.8

4 (k) 42.5

 ½
 (k)
 42.5

 [mp.
 (k)
 12.75

 Total
 (k)
 80.05

Spalled Area

Delaminated Area

\* Ouantities are estimated. Actual locations and quantities to be determined by the Engineer in the field.

COUNTY TOTAL SHEET NO. OOLE 18 18 CONTRACT NO. 64Z80 DESIGNED JGY DATE JANUARY 18. 2017 SECTION SUBSTRUCTURE REPAIR DETAILS CHECKED CCC STATE OF ILLINOIS D2 80R 2017-2 ORAWN steffen/baliva CHECKED JGY CCC REVISED SN 071-0024 **DEPARTMENT OF TRANSPORTATION** PASSED REVISED SHEET NO. 5 OF 5 SHEETS

SOUTH ABUTMENT