

03-06-2015 LETTING ITEM 032

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

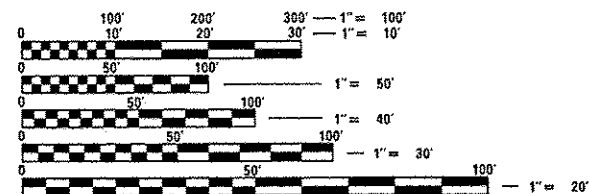
**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 734 (IL 2)
SECTION: D2 DECK REPAIR 2015-2
PROJECT: BRIDGE REPAIR
TYPE of IMPROVEMENT
WINNEBAGO COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	24	1
		ILLINOIS	CONTRACT NO. 64K42	

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

ROCKTON TOWNSHIP - SECTION 5

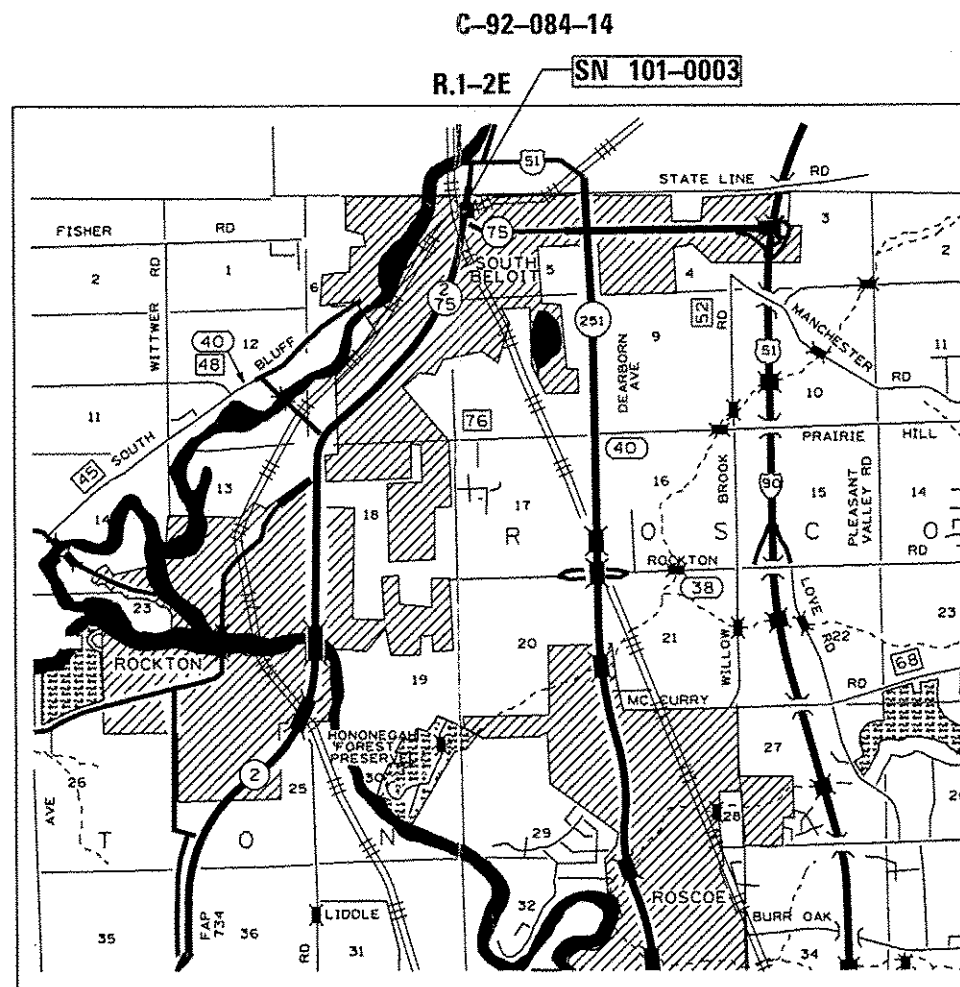


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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. 64K42



LOCATION OF SECTION INDICATED THIS: - [shaded area]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED DEC 5 2014
Paul A. Zota
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30 2015
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

URBAN
0014
100%
State Funds

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "E", N90	TON	36
42001300	PROTECTIVE COAT	SQ YD	48
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	420
50102400	CONCRETE REMOVAL	CU YD	22
50300255	CONCRETE SUPERSTRUCTURE	CU YD	22
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3080
50800515	BAR SPLICERS	EACH	28
52000110	PREFORMED JOINT STRIP SEAL	FOOT	140
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
X7012030	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	230.4
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	4,717
70300280	TEMPORARY PAVEMENT MARKING LINE, 24"	FOOT	48
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,572
70400100	TEMPORARY CONCRETE BARRIER	FOOT	266.07
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	240.73
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
70600241	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
70600341	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,465
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	915
Z0024476	FLEXIBLE DELINEATOR MAINTENANCE	EACH	5

25

FILE NAME :	USER NAME = dpaadd	DESIGNED - _____	REVISED - _____
D:\BR\Draws\Winnebago\64K42 Repair SH	01-0003\CADD\02-64K42-shr-cover.dgn	DRAWN - _____	REVISED - _____
Default	PLOT SCALE = 100.0000 / in	CHECKED - _____	REVISED - _____
	PLOT DATE = Tue Dec 09 07:24:10 2014	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

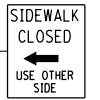
SUMMARY OF QUANTITIES

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

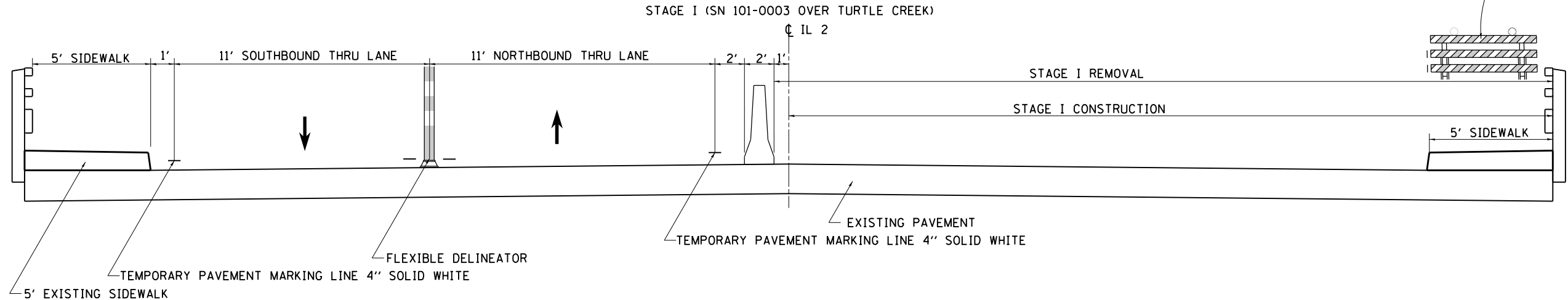
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64K42	

Rev.

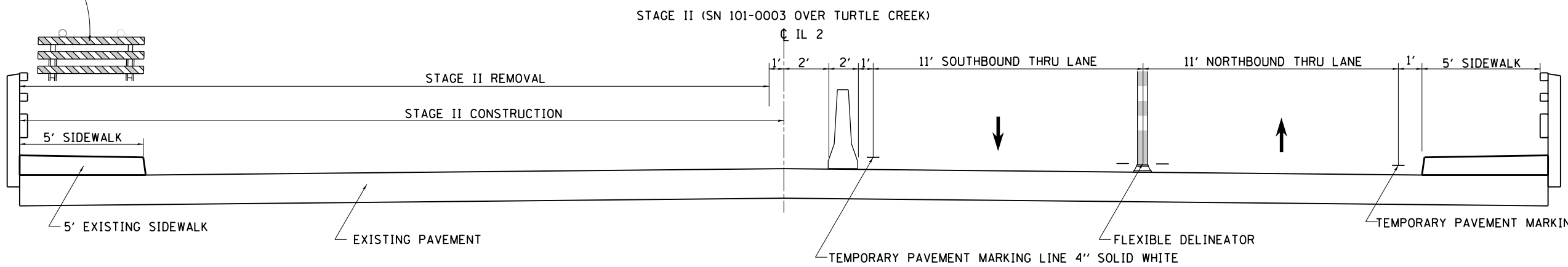
STAGING TYPICALS



R11-1102-2430



R11-1102-2430



NARRATIVE FOR PEDESTRIAN TRAFFIC CONTROL STAGES

STAGE I
 MAINTAIN EXISTING PEDESTRIAN TRAFFIC ON IL 2 USING EXISTING WEST SIDEWALK.

STAGE II
 MAINTAIN EXISTING PEDESTRIAN TRAFFIC ON IL 2 USING EXISTING EAST SIDEWALK.

NOTES:
 PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.

CONTRACTOR SHALL PROVIDE SIGNAGE AND BARRICADES TO FACILITATE AND PROTECT PEDESTRIANS.

THE CONTRACTOR SHALL PROTECT PEDESTRIANS FROM HAZARDS CAUSED BY CONSTRUCTION ACTIVITIES AT ALL TIMES. THIS INCLUDES, BUT IS NOT LIMITED TO, FLYING DEBRIS FROM WORK.

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
D:\BR\Draws\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN - _____	REVISED - _____
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

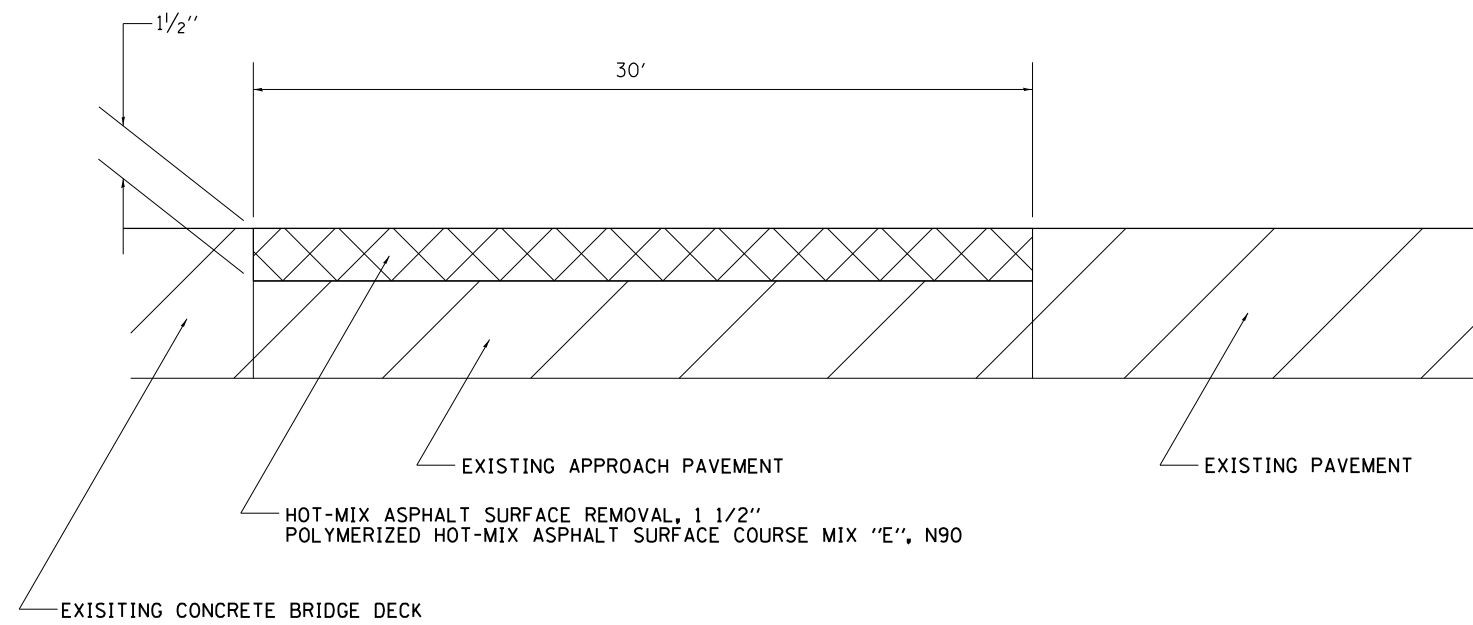
STAGING TYPICALS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	4
CONTRACT NO. 64K42				

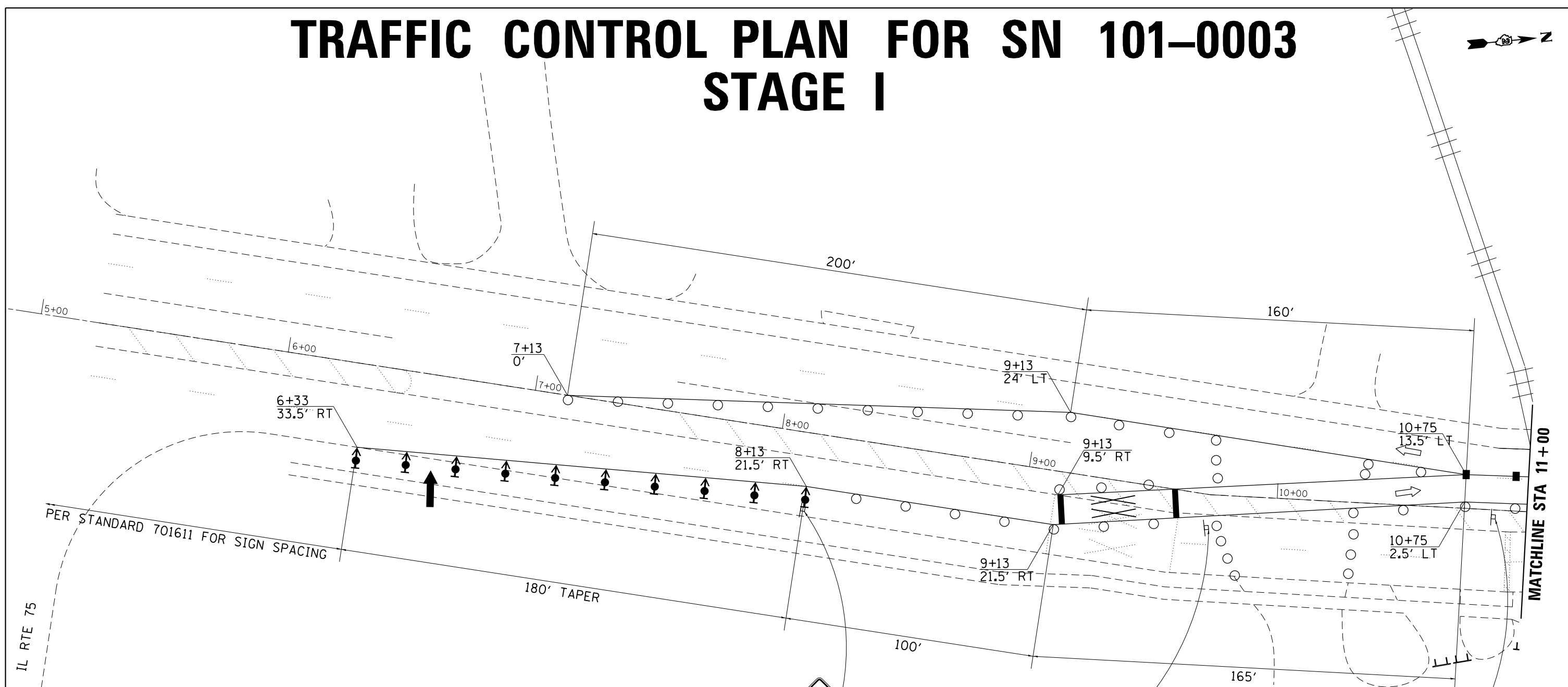
ILLINOIS FED. AID PROJECT

BUTT JOINT DETAIL



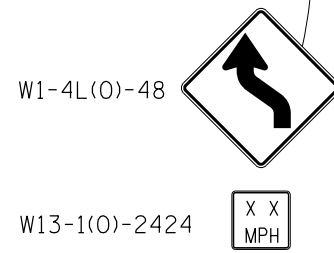
FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Doss\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN - _____	REVISED - _____			734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	5
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	
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TRAFFIC CONTROL PLAN FOR SN 101-0003 STAGE I



PER STANDARD 701611 FOR SIGN SPACING

IL RTE 75



SYMBOLS

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Type III barricade with flashing lights
- Flagger with traffic control sign.
- Type III barricade
- Flexible Delineator
- Direction Indicator Barricades



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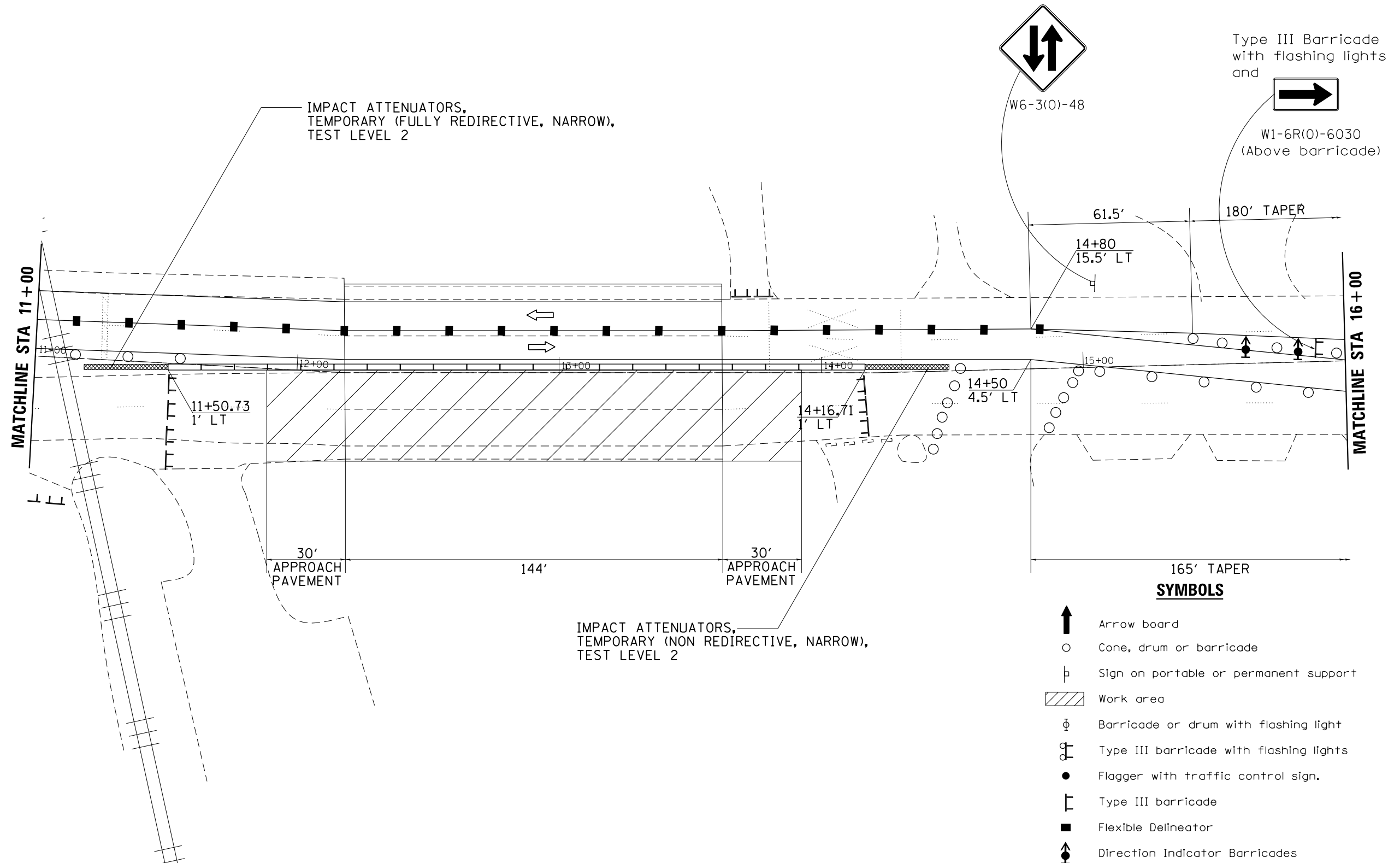
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN FOR SN 101-0003
STAGE I

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	6
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN FOR SN 101-0003 STAGE I



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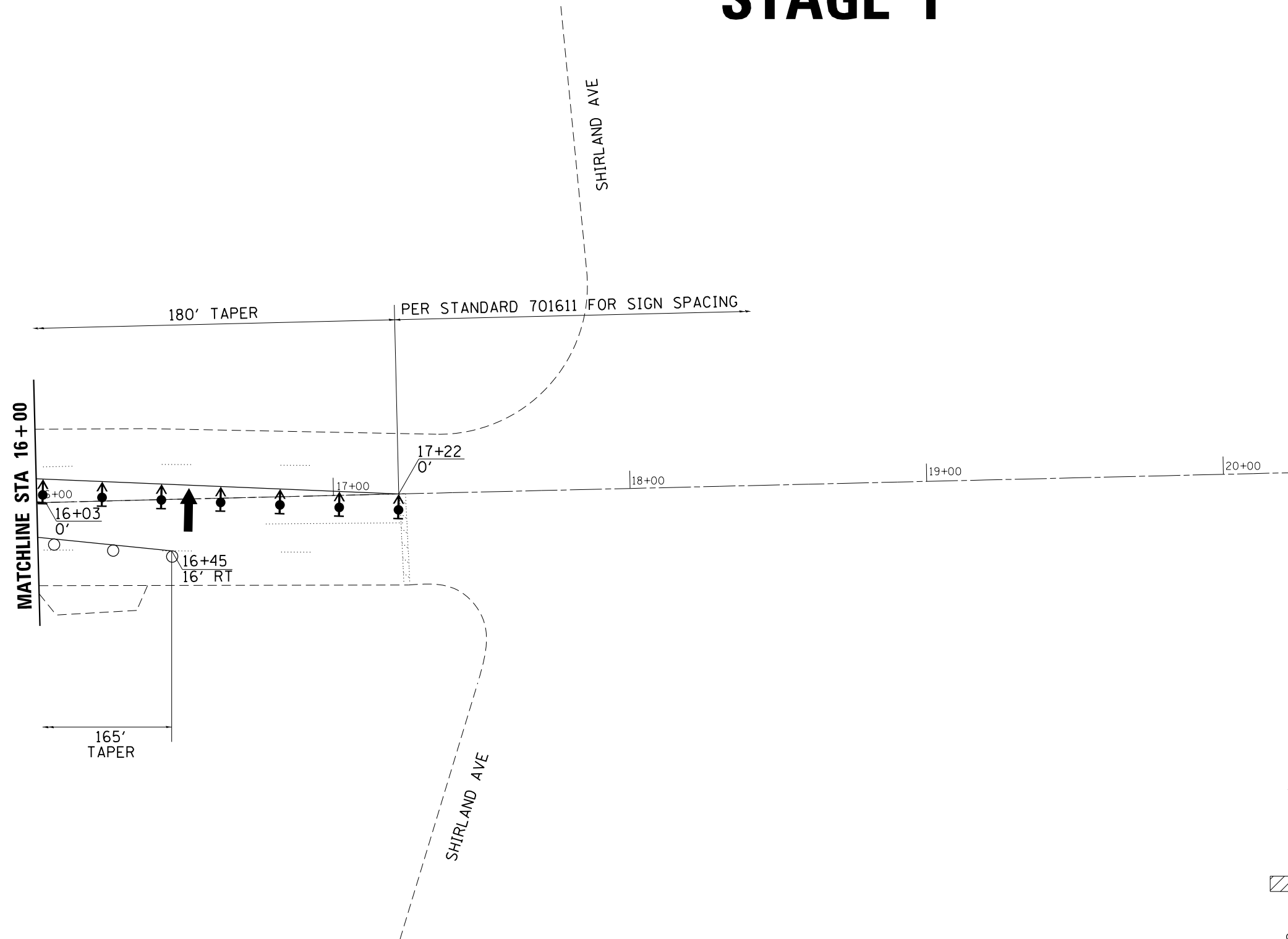
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN FOR SN 101-0003
STAGE I











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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	7
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN FOR SN 101-0003 STAGE I



SYMBOLS

-  Arrow board
-  Cone, drum or barricade
-  Sign on portable or permanent support
-  Work area
-  Barricade or drum with flashing light
-  Type III barricade with flashing lights
-  Flagger with traffic control sign.
-  Type III barricade
-  Flexible Delineator
-  Direction Indicator Barricades

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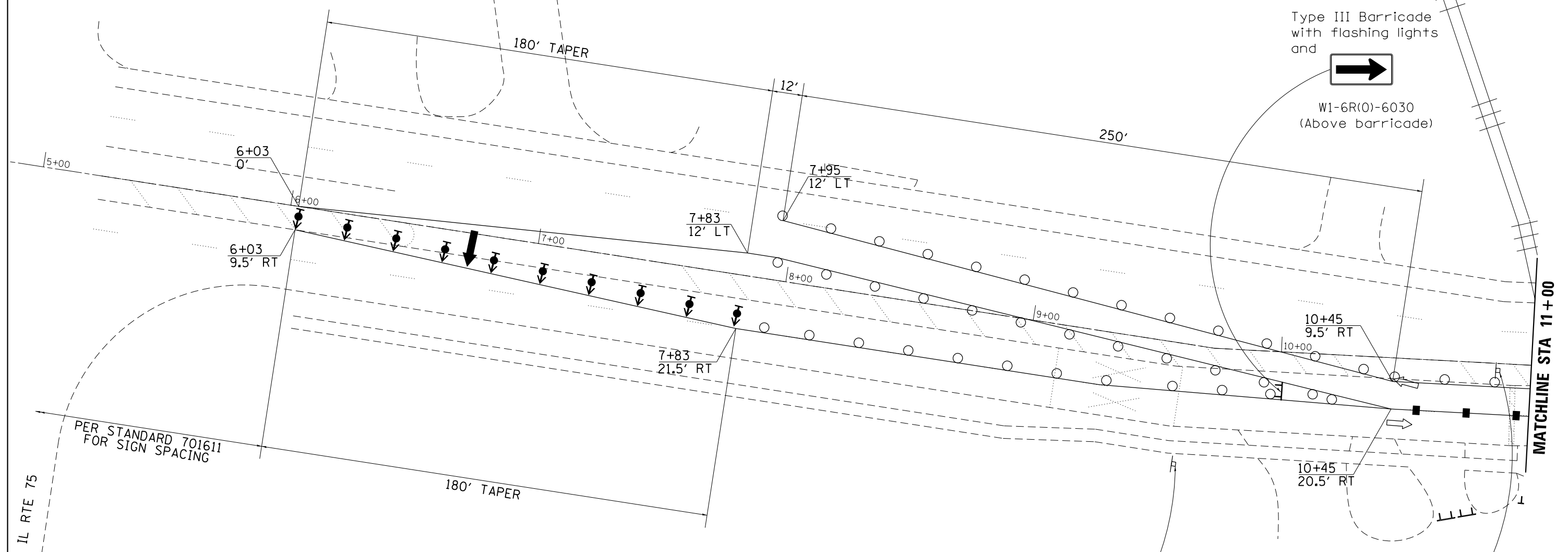
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

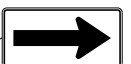
TRAFFIC CONTROL PLAN FOR SN 101-0003
STAGE I

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	8
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN FOR SN 101-0003 STAGE II













Type III Barricade with flashing lights and

 W1-6R(0)-6030
 (Above barricade)

PER STANDARD 701611
 FOR SIGN SPACING



SYMBOLS

-  Arrow board
-  Cone, drum or barricade
-  Sign on portable or permanent support
-  Work area
-  Barricade or drum with flashing light
-  Type III barricade with flashing lights
-  Flagger with traffic control sign.
-  Type III barricade
-  Flexible Delineator
-  Direction Indicator Barricades



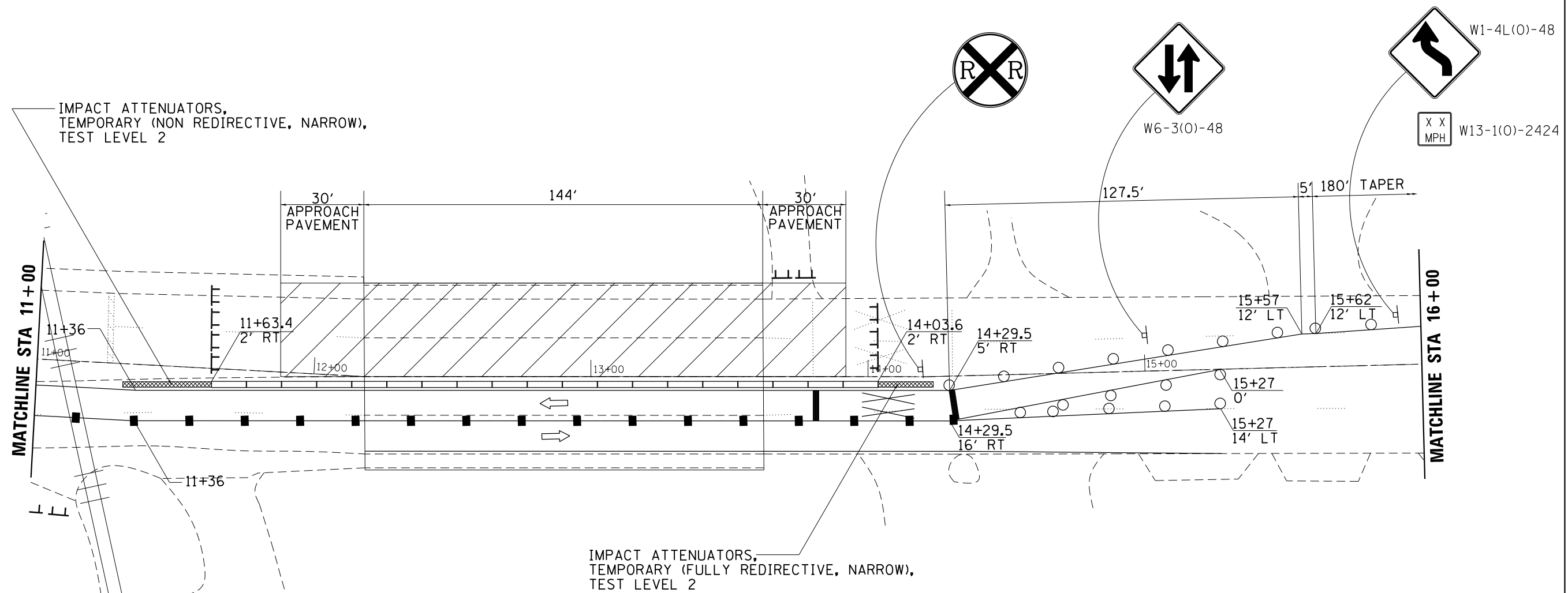
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN FOR SN 101-0003
 STAGE II
 SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	9
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN FOR SN 101-0003 STAGE II



SYMBOLS

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Type III barricade with flashing lights
- Flagger with traffic control sign.
- Type III barricade
- Flexible Delineator
- Direction Indicator Barricades

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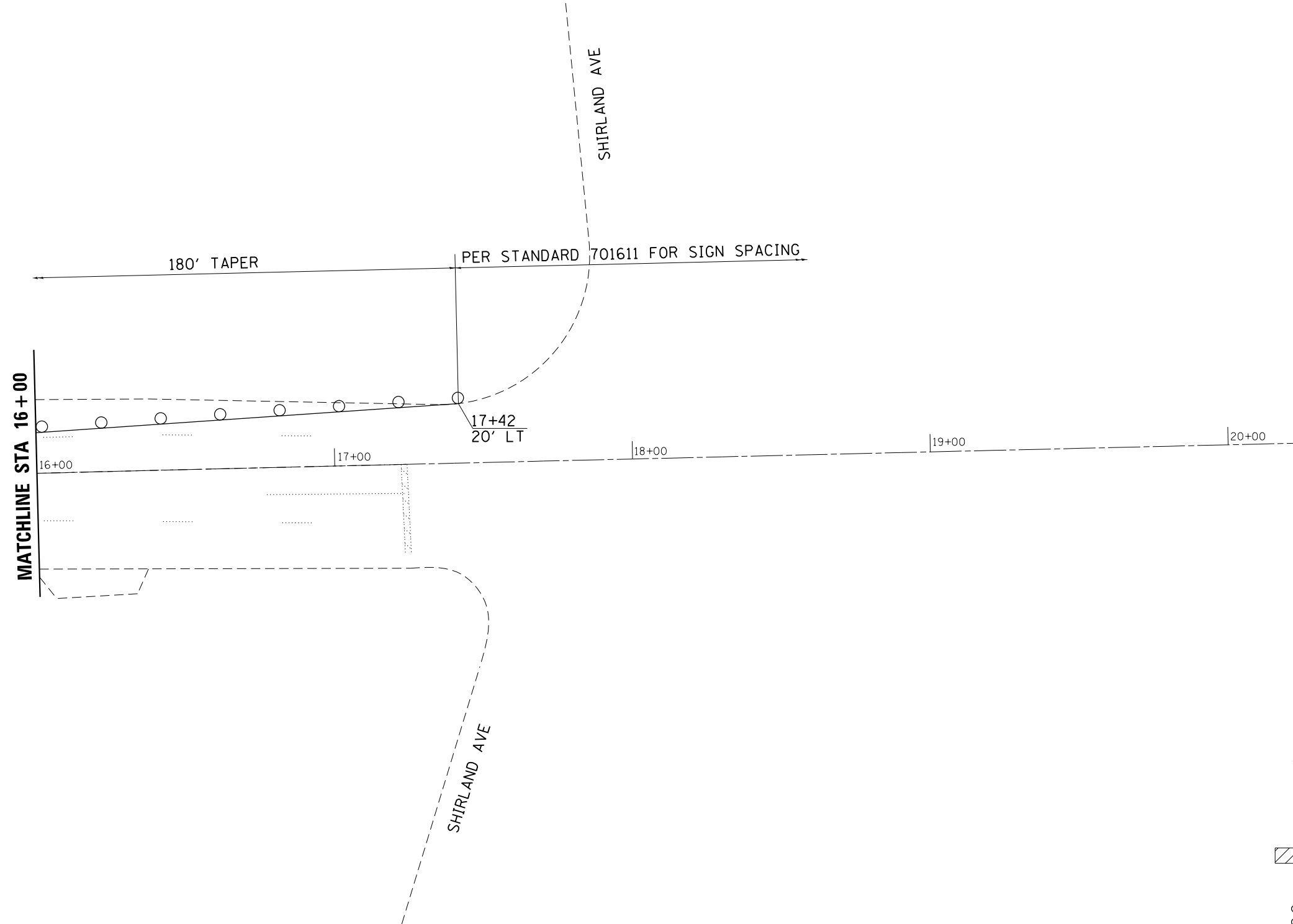
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN FOR SN 101-0003
STAGE II











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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	10
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL PLAN FOR SN 101-0003 STAGE II



SYMBOLS

-  Arrow board
-  Cone, drum or barricade
-  Sign on portable or permanent support
-  Work area
-  Barricade or drum with flashing light
-  Type III barricade with flashing lights
-  Flagger with traffic control sign.
-  Type III barricade
-  Flexible Delineator
-  Direction Indicator Barricades

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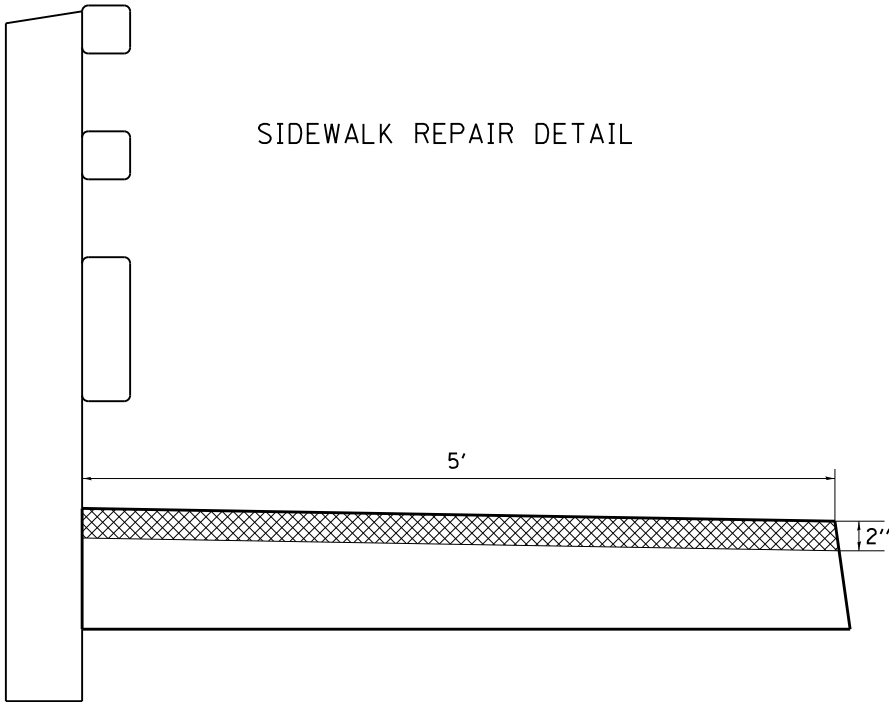
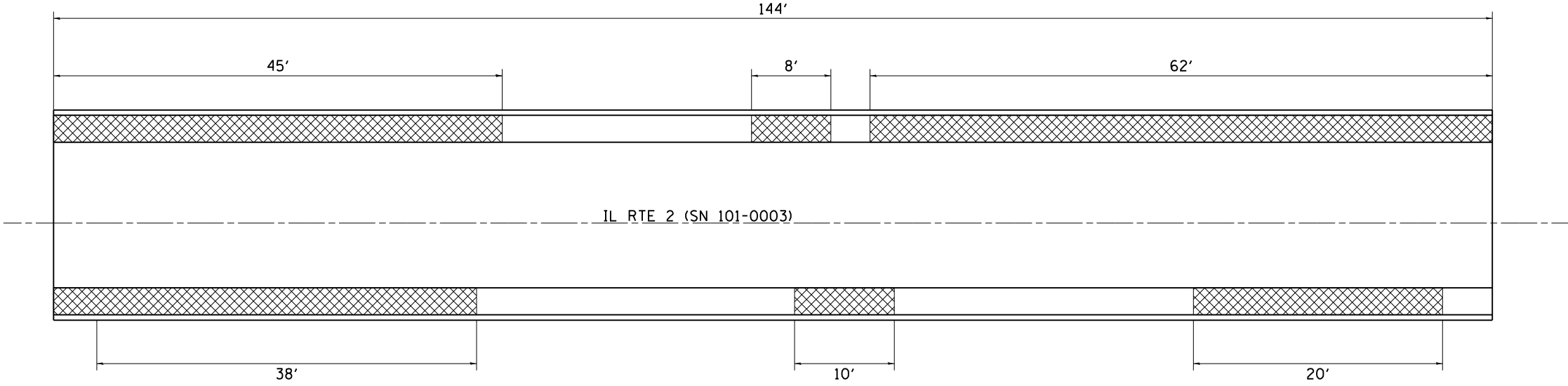
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 101-0003
STAGE II**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	11
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

SIDEWALK REPAIR DETAILS



 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) = 915 SQ FT

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
D:\NBR\Draws\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN - _____	REVISED - _____
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - _____	REVISED - _____
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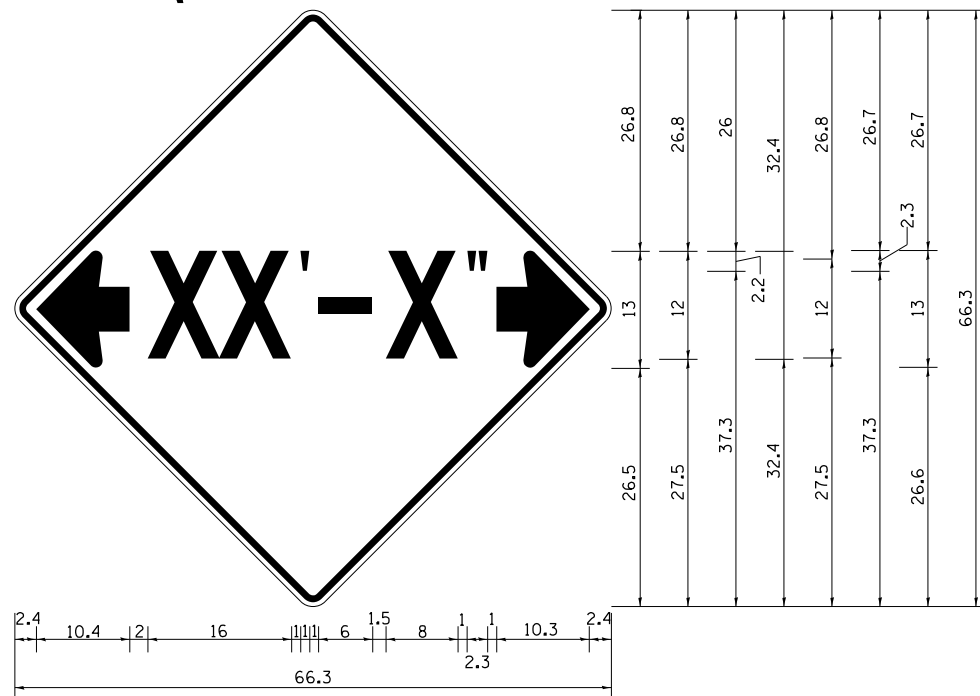
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIDEWALK REPAIR DETAILS

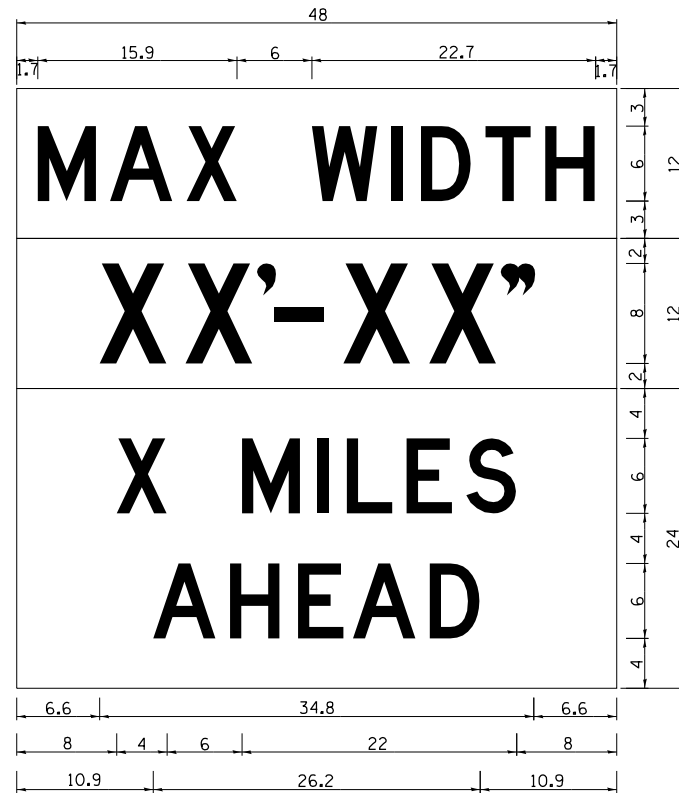
SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	12
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	

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.

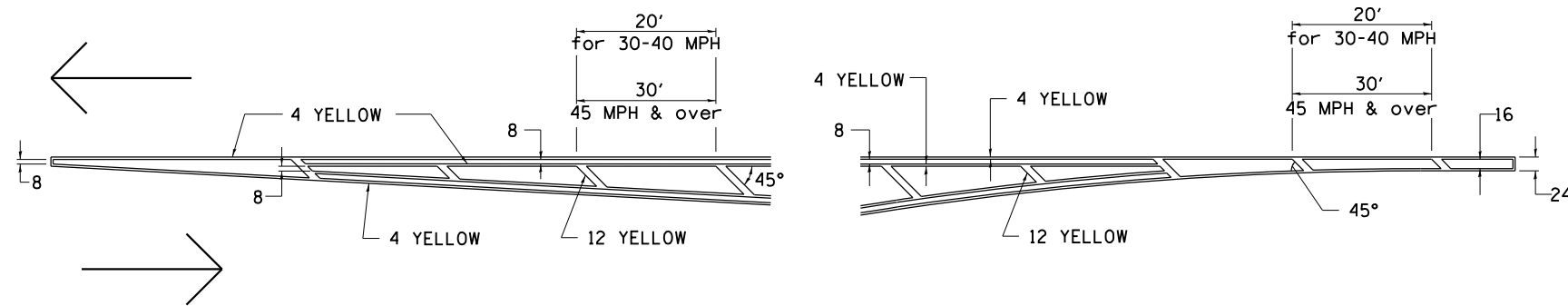
REVISED - 5-15-09

REVISED - ____	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - ____		734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	13
REVISED - ____		CONTRACT NO. 64K42				
REVISED - ____		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

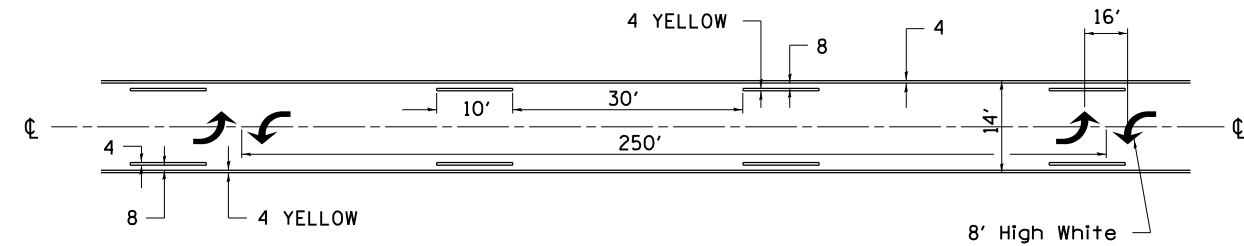
PLOT DATE = Tue Dec 09 07:26:26 2014

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

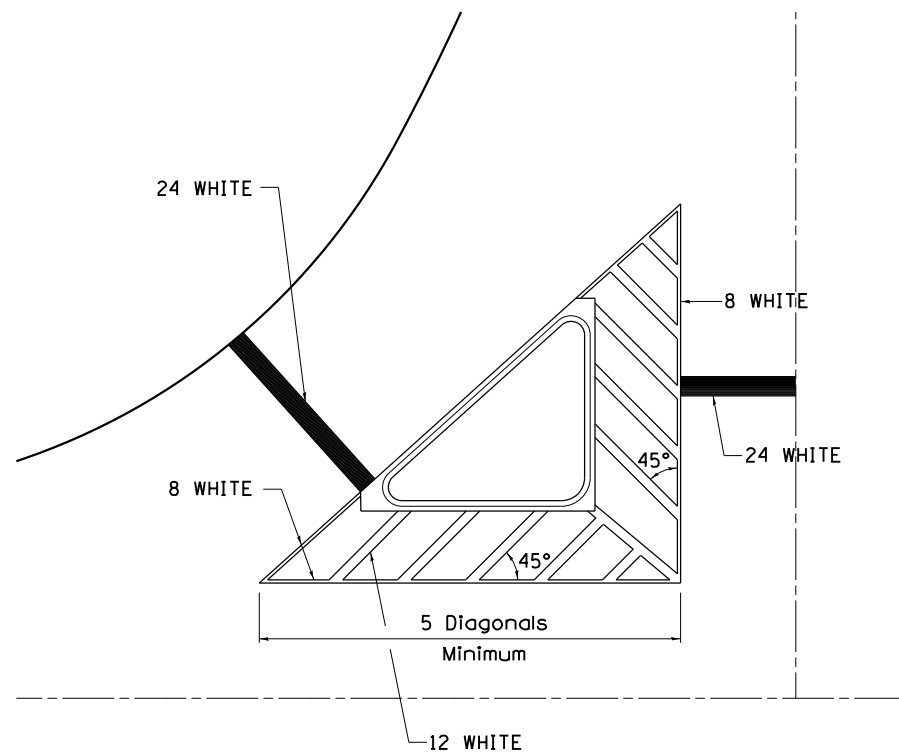


MEDIAN PAVEMENT MARKING



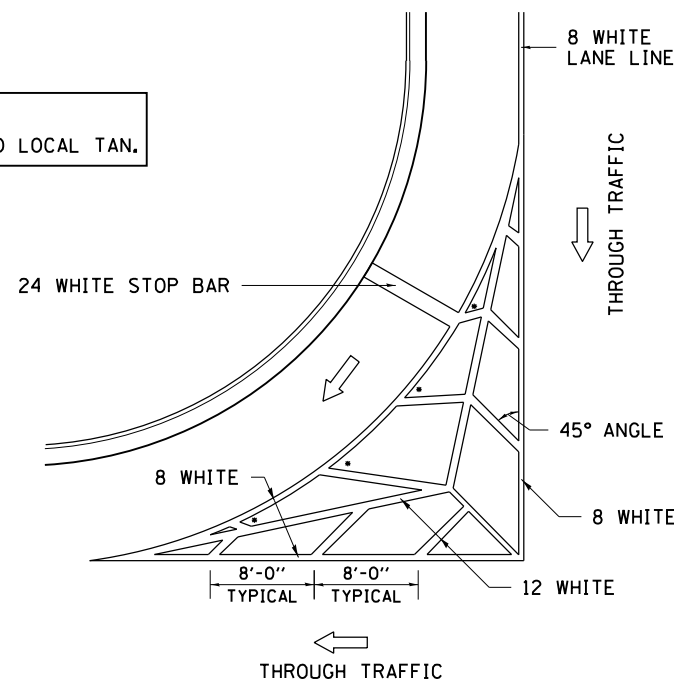
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



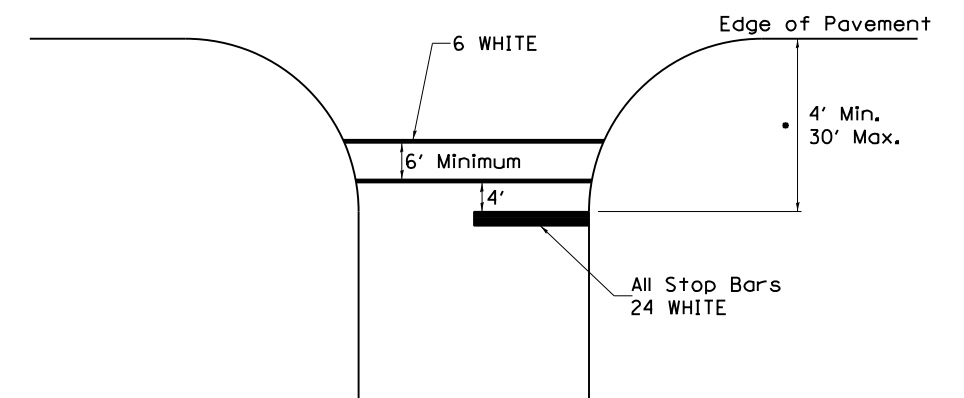
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

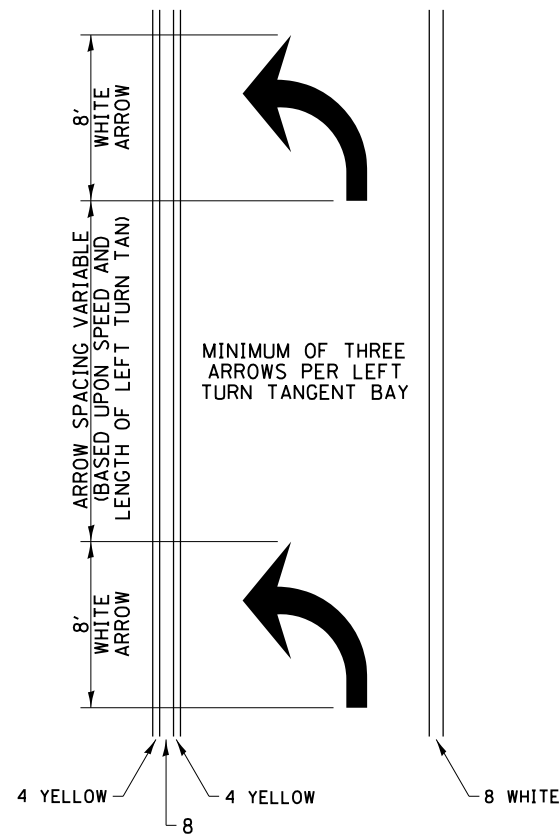


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = 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:\NBR\Draws\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN -	REVISED - 3-05-12		734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	14			
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		CONTRACT NO. 64K42							
	PLOT DATE = Tue Dec 09 07:26:33 2014	DATE -	REVISED -		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

TYPICAL PAVEMENT MARKINGS

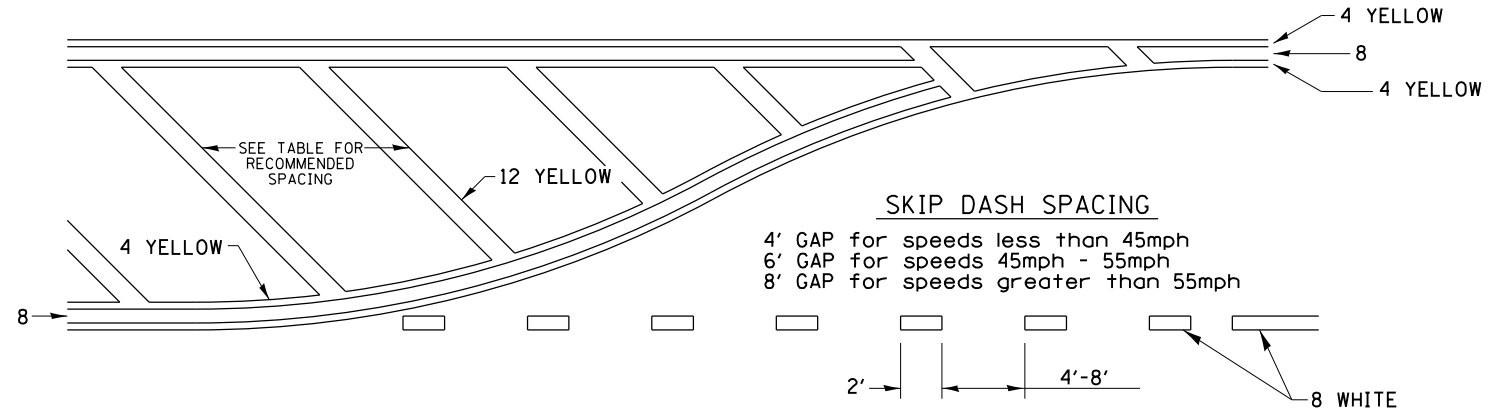
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

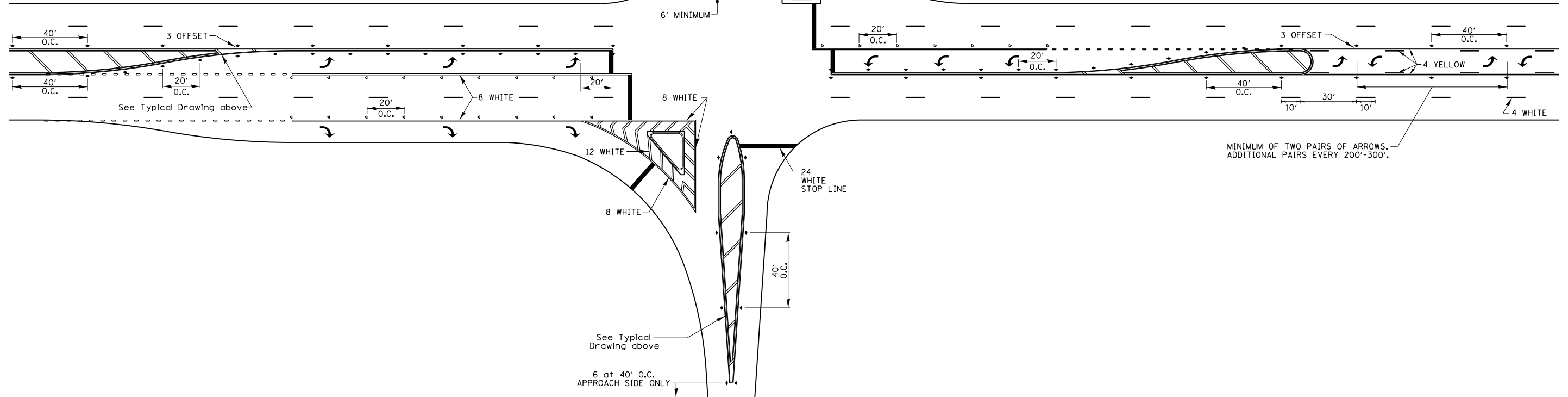
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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 = dosddd	DESIGNED -	REVISED - 6-27-14
D:\BR\Draws\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN -	REVISED - 3-05-12
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = Tue Dec 09 07:26:54 2014	DATE -	REVISED -

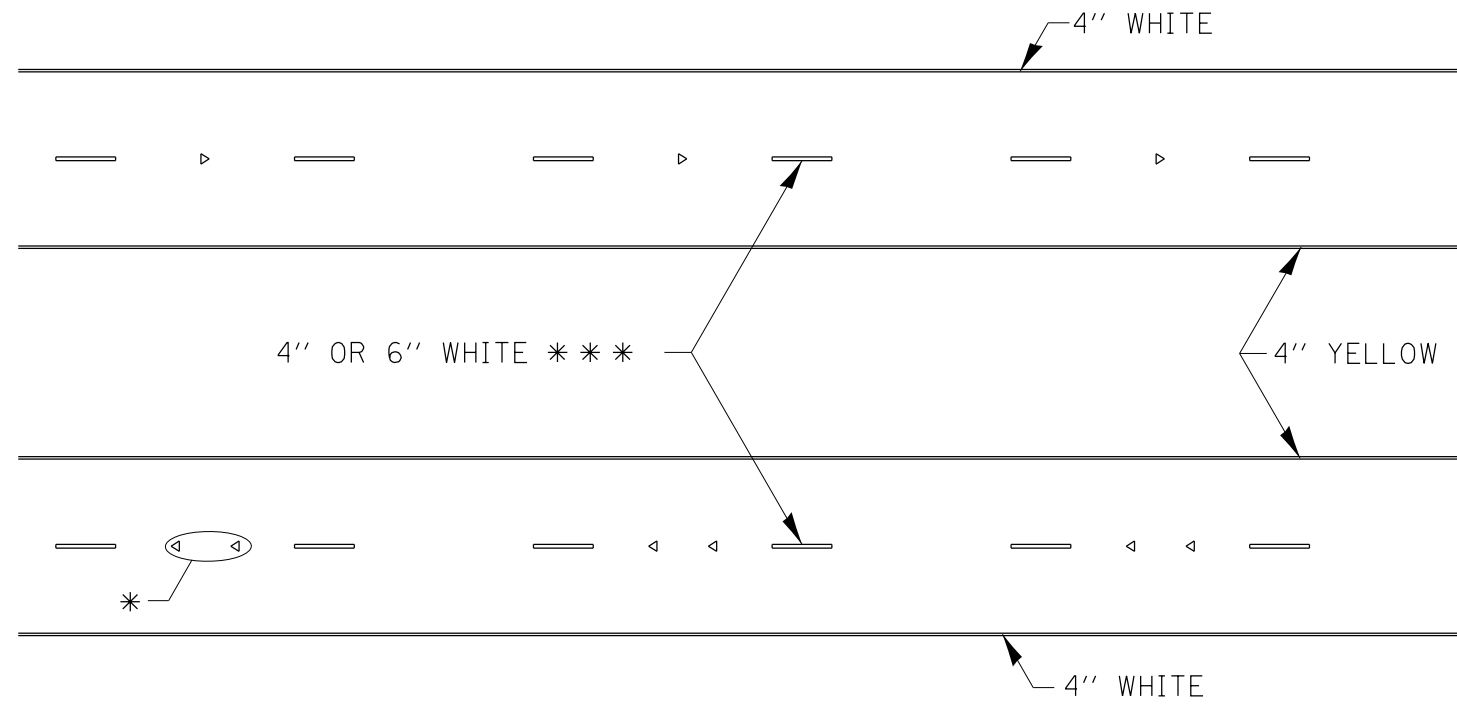
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

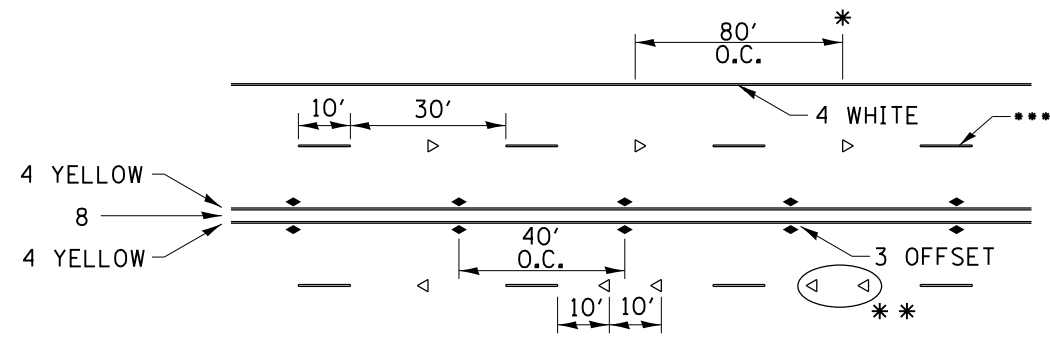
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	15
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 64K42	

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.

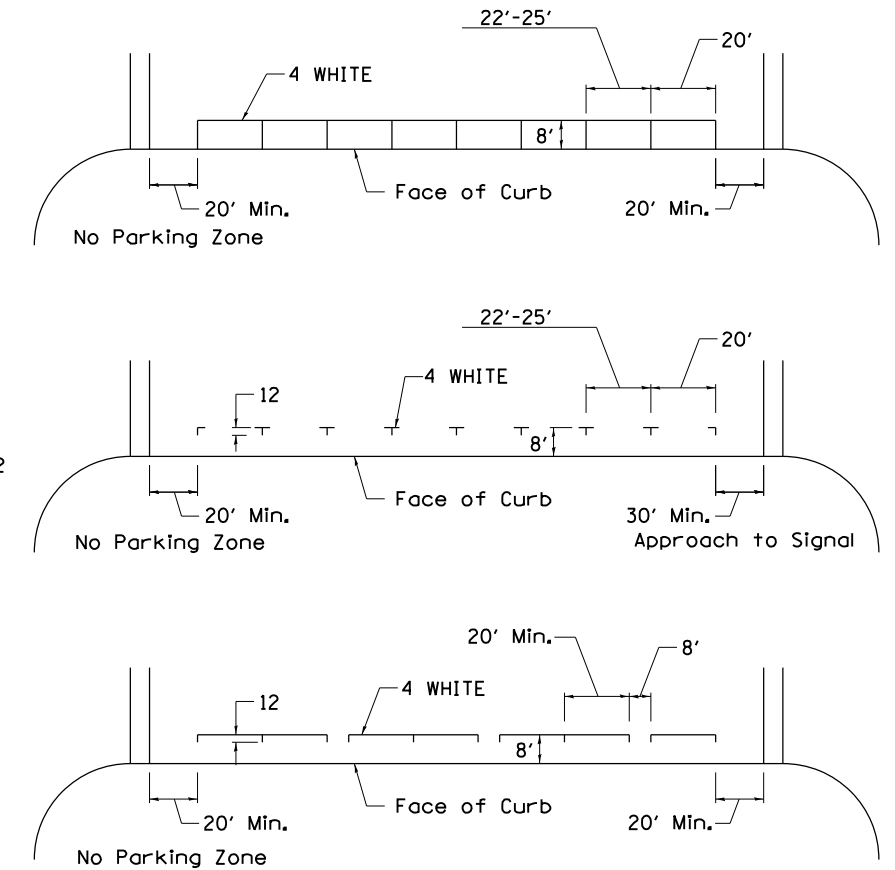
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

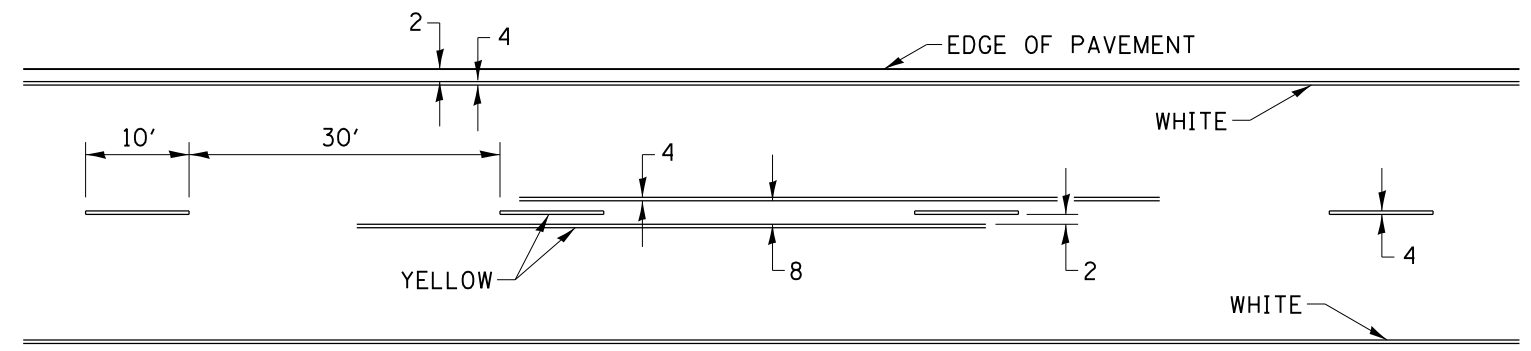
MULTI-LANE / UNDIVIDED & ONE WAY

(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

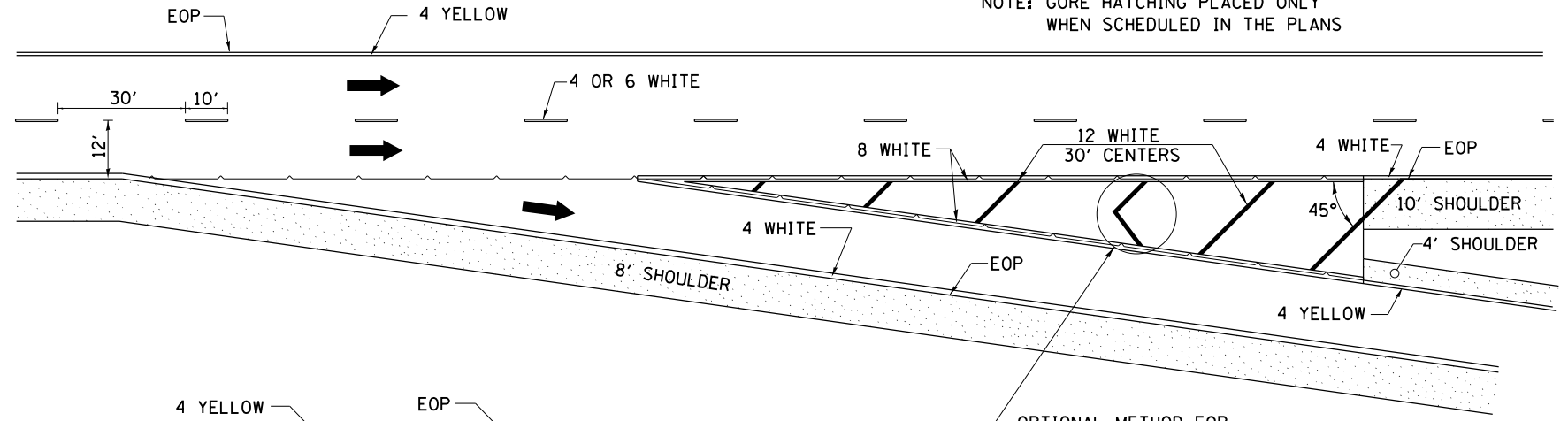
FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draw\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN -	REVISED - 8-27-13			734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	16
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - 11-28-12			CONTRACT NO. 64K42				
	PLOT DATE = Tue Dec 09 07:27:00 2014	DATE -	REVISED -			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

PAINING DETAILS

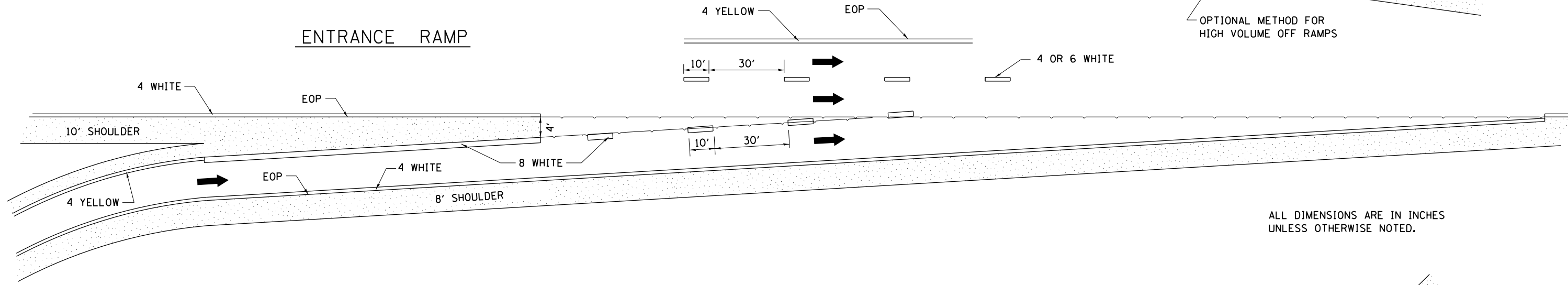
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

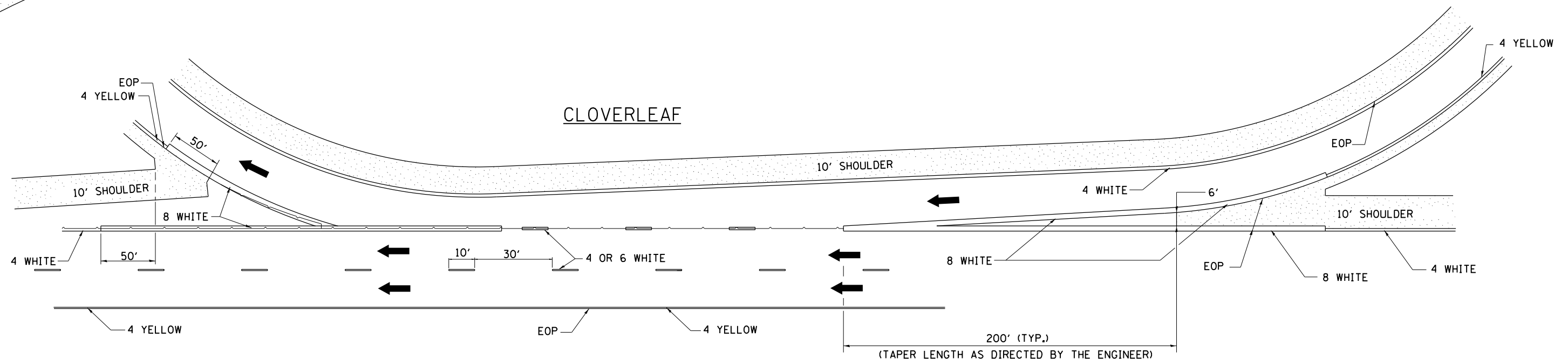
NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS



ENTRANCE RAMP



CLOVERLEAF



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 8-27-13
D:\BR\Drawings\Winnebago\64K42 Repairs SN	01-0003\CADD\02-64K42-sht-cover.dgn	DRAWN -	REVISED - 10-18-11
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = Tue Dec 09 07:27:09 2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	17
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 64K42	

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.

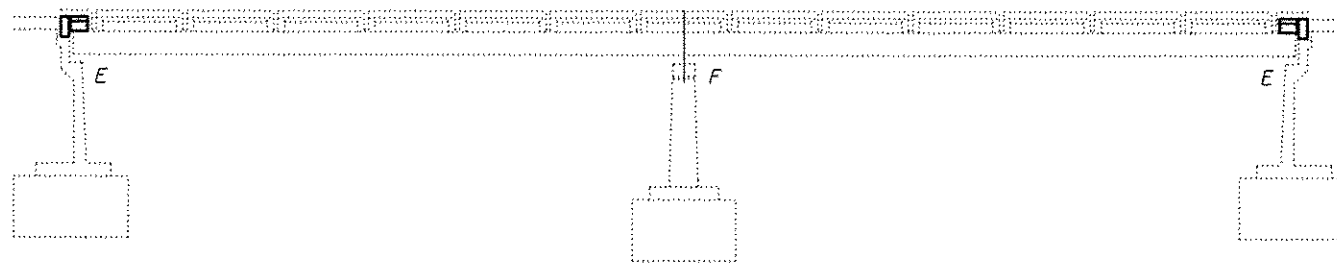
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

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.

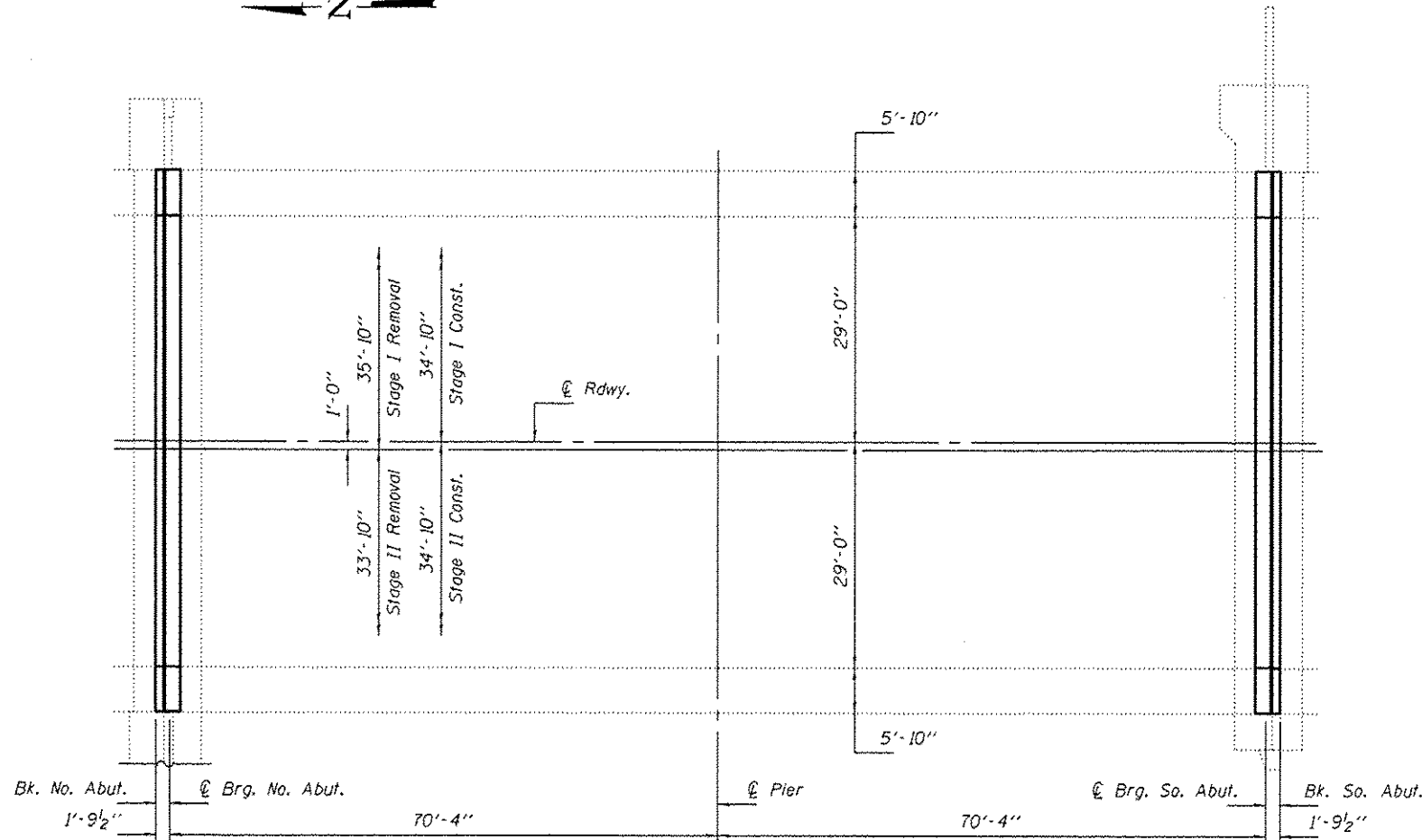
Reinforcement bars designated (E) shall be epoxy coated.

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)(1) of the Standard Specifications. Cost included with Concrete Superstructure.



ELEVATION



PLAN



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	22
Concrete Superstructure	Cu. Yd.	22
Prefomed Joint Strip Seal	Foot	140
Reinforcement Bars, Epoxy Coated	Pound	3080
Bar Splicers	Each	28
* Protective Coat	Sq. Yd.	48

* On new concrete only

EXPIRES 11-30-2016

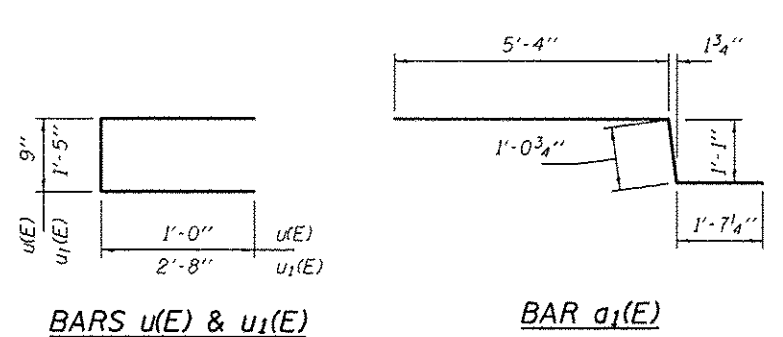
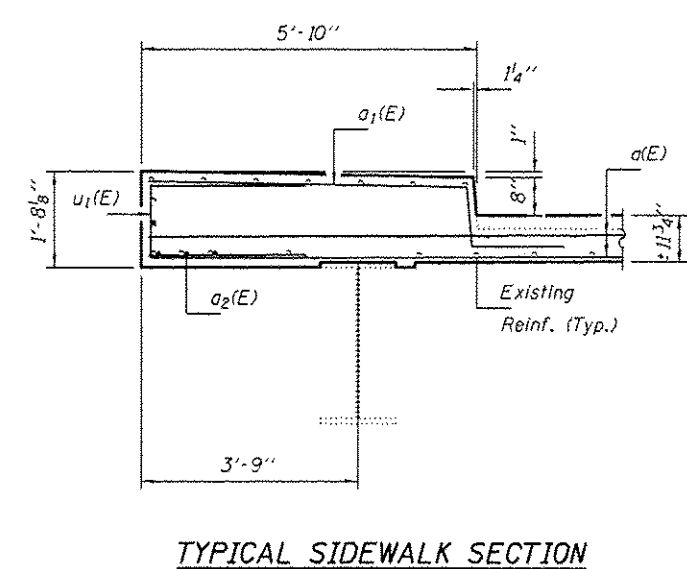
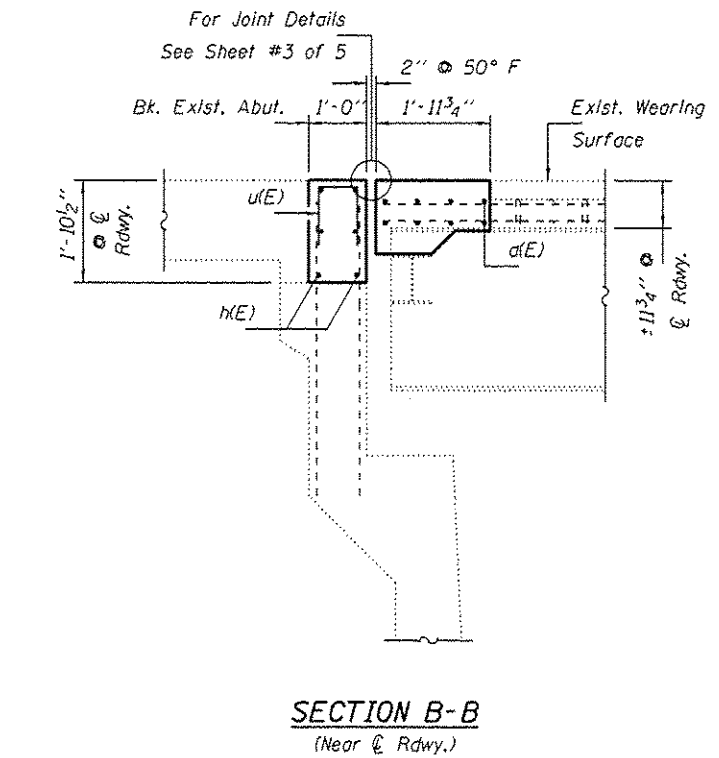
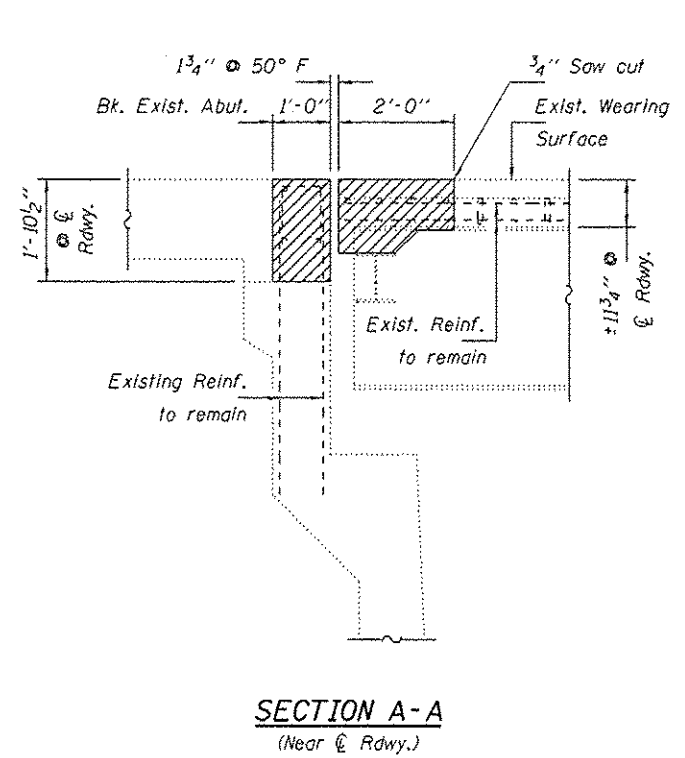
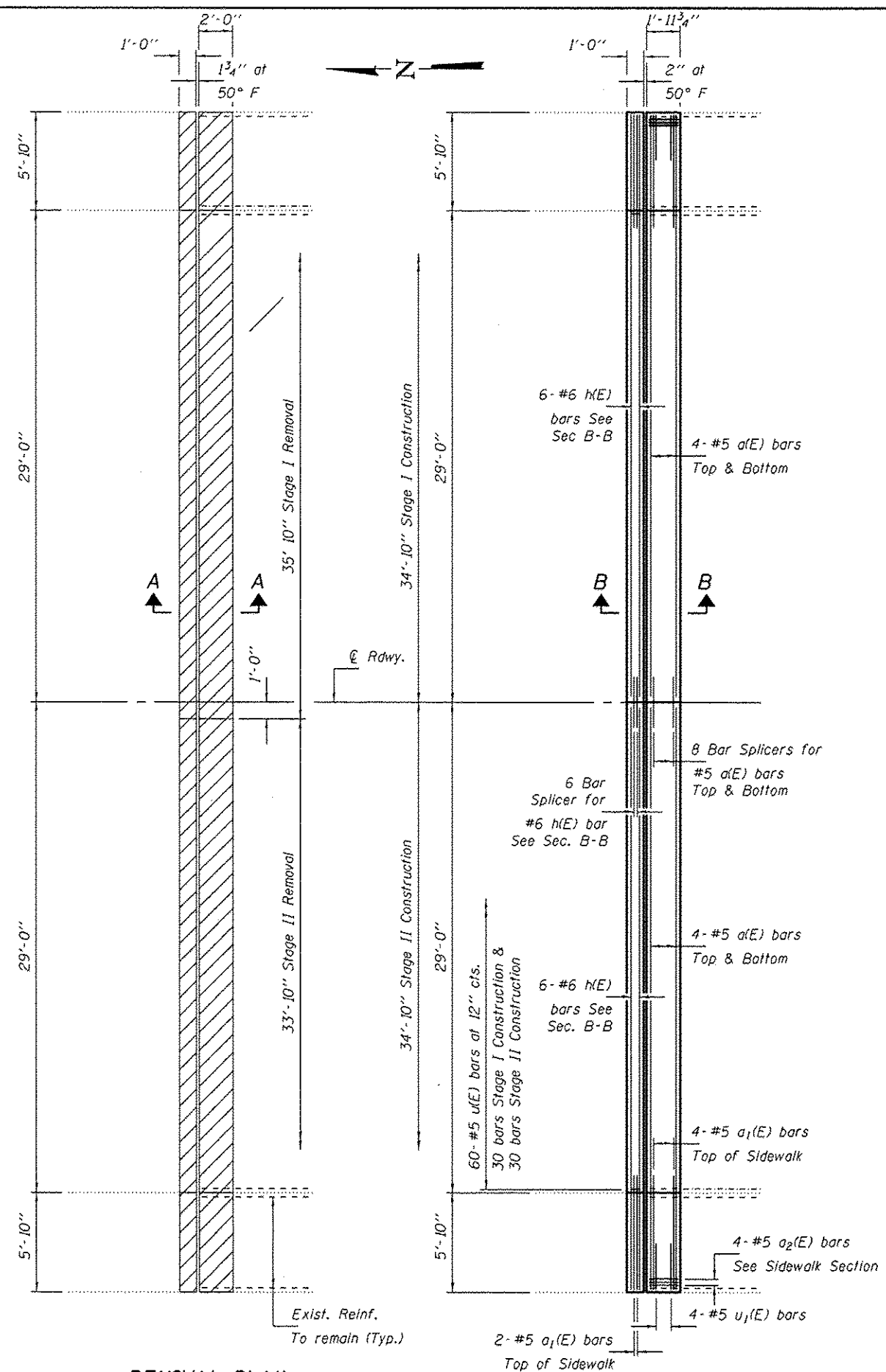
DESIGNED: <i>Tom Clark</i>	EXAMINED: <i>Travis A. Pelt</i>	DATE: JANUARY 15, 2015
CHECKED: <i>Adrian T. Holloway</i>	PASSED: <i>David Carl Puzey</i>	REVISED:
DRAWN: <i>J. Schneller</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED:
CHECKED: <i>TLC</i>	ACTING ENGINEER OF STRUCTURAL SERVICES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
F.A. RT. 734 OVER TURTLE CREEK
SN 101-0003

SHEET NO. 1 OF 5 SHEETS

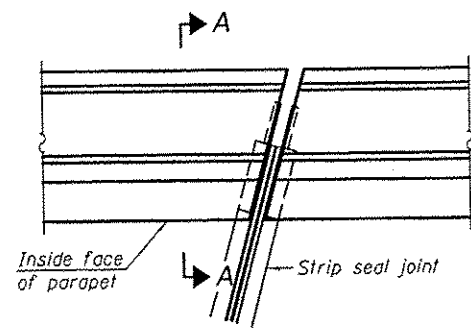
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	18
CONTRACT NO. 64K42			ILLINOIS FED. AID PROJECT	



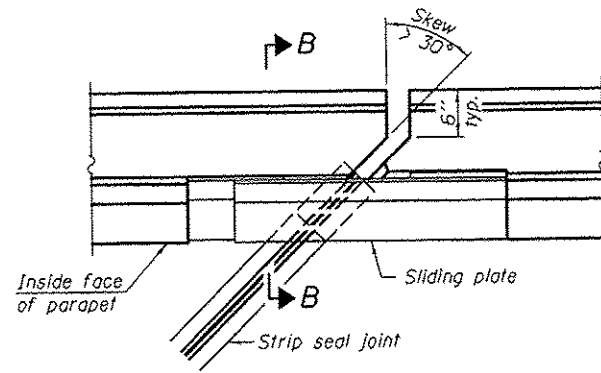
BILL OF MATERIAL
(Qty's included both Abutments)

Bar	No.	Size	Length	Shape
a(E)	32	#5	34'-6"	—
a1(E)	24	#5	8'-0"	—
a2(E)	16	#5	1'-8"	—
h(E)	24	#6	34'-6"	—
u(E)	120	#5	2'-9"	—
u1(E)	16	#5	6'-9"	—
Concrete Removal			Cu. Yd.	22
Concrete Superstructure			Cu. Yd.	22
Reinforcement Bars, Epoxy Coated			Lbs.	3080

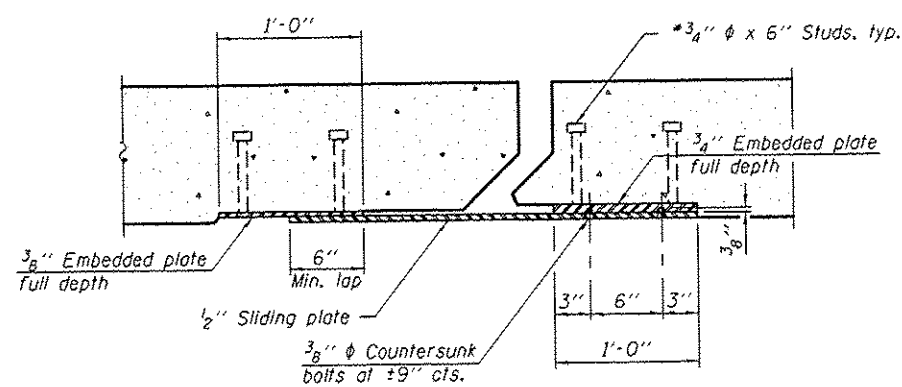
REMOVAL PLAN North Abutment shown, South Abutment similar by rotation.
REPLACEMENT PLAN



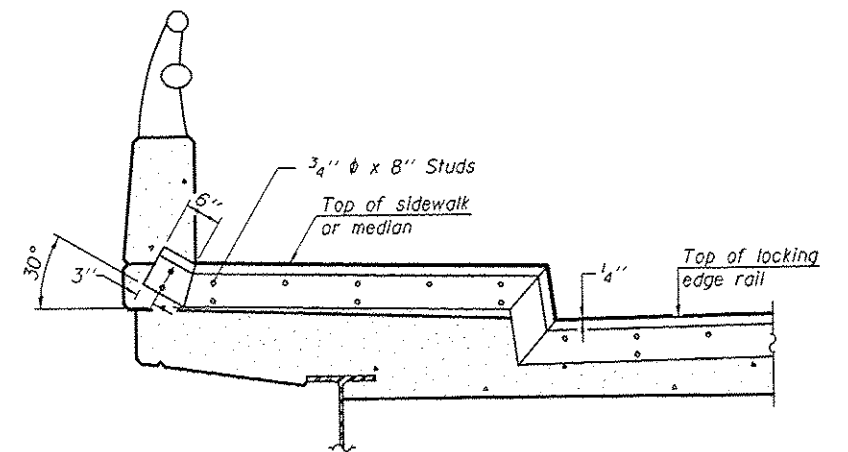
PLAN
(For skews $\leq 30^\circ$)



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

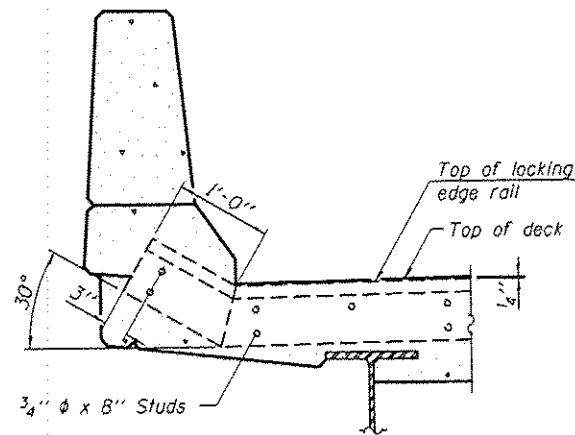


SECTION C-C

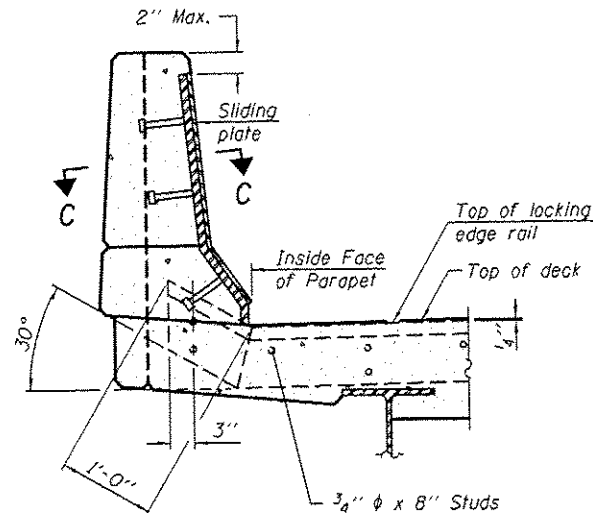


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

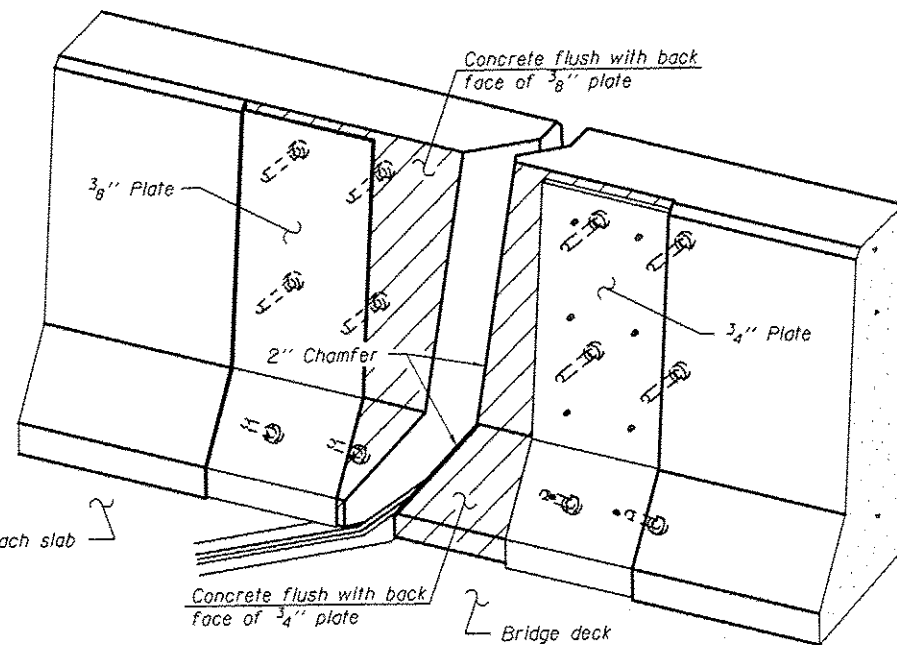
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

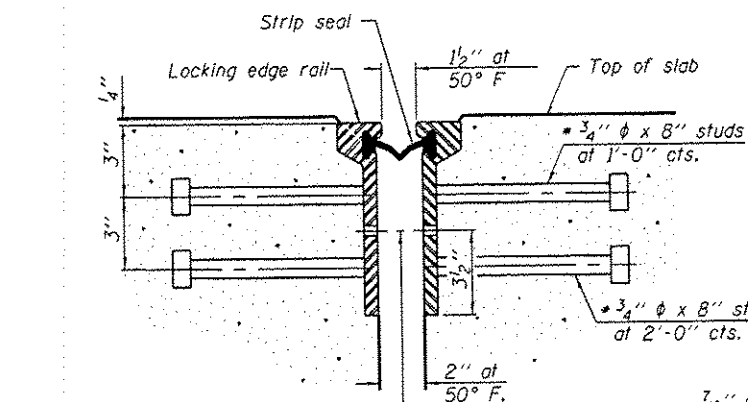
Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement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

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

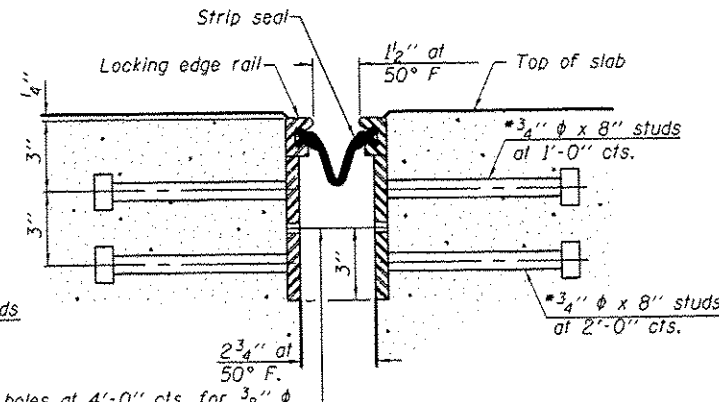
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according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

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments 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.



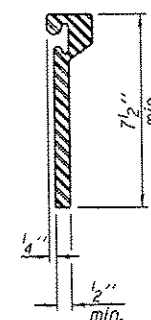
SECTION THRU ROLLED RAIL JOINT



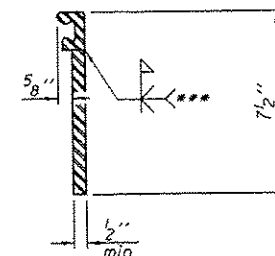
SECTION THRU WELDED RAIL JOINT

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

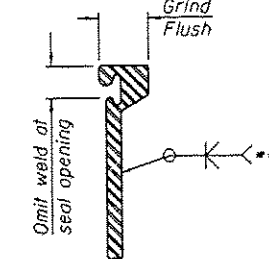
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

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

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

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	140

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

EJ-SSJ

1-27-12

DESIGNED TLC
CHECKED ATH
DRAWN J. Schneller
CHECKED TLC ATH

EXAMINED
PASSED
Timothy A. Anzani
ACTING ENGINEER OF STRUCTURAL SERVICES
J. Carl Long
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JANUARY 15, 2015
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

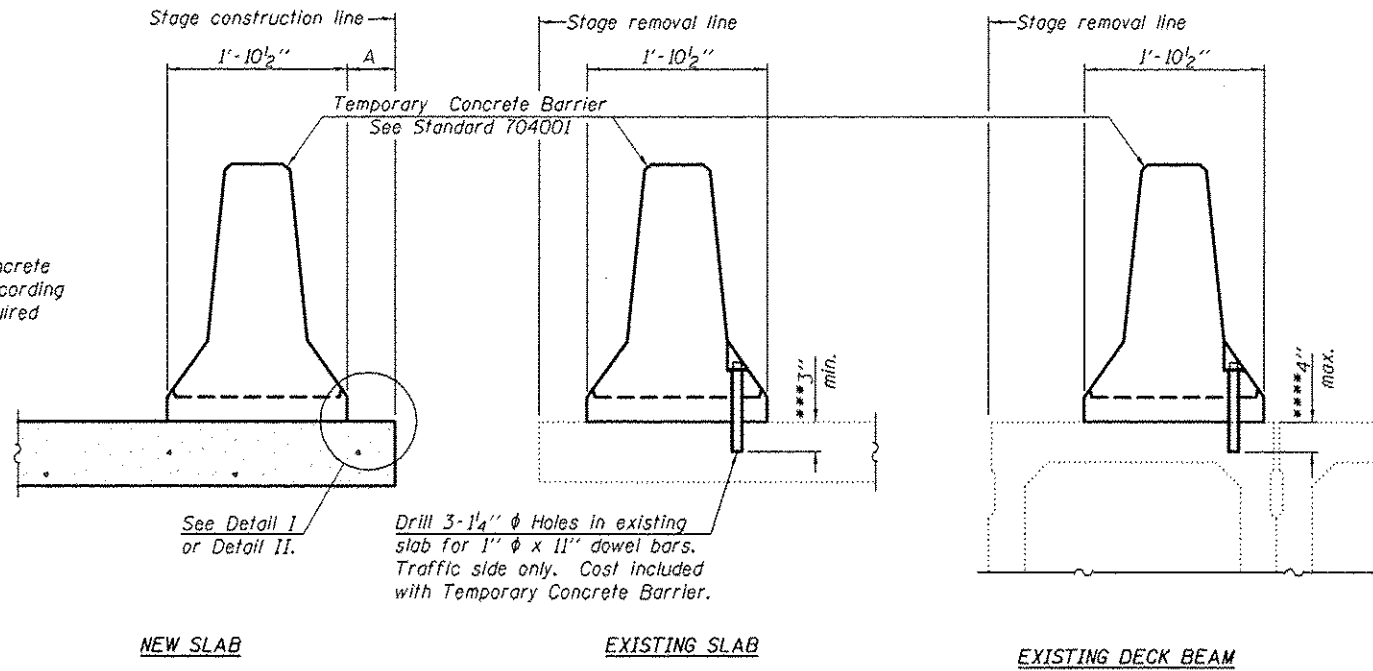
PREFORMED JOINT STRIP SEAL
SN 101-0003

SHEET NO. 3 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	D2 DECK REPAIR 2015-2	WINNEBAGO	22	20
			CONTRACT NO. 64K42	

ILLINOIS FED. AID PROJECT

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

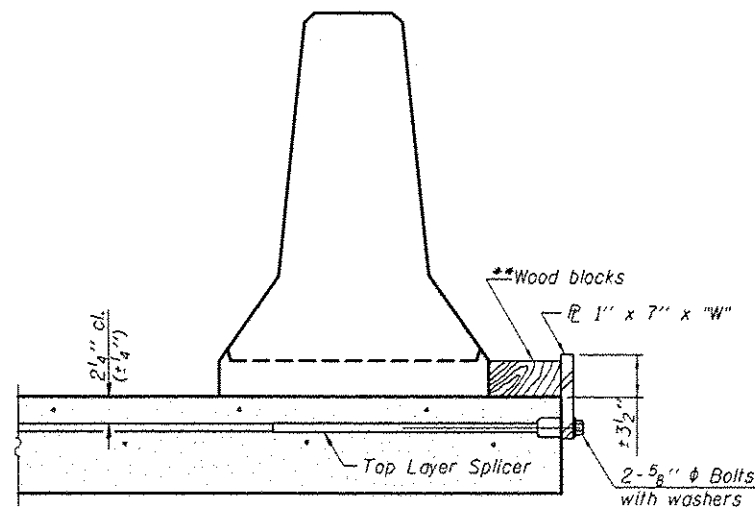
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{R} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

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.

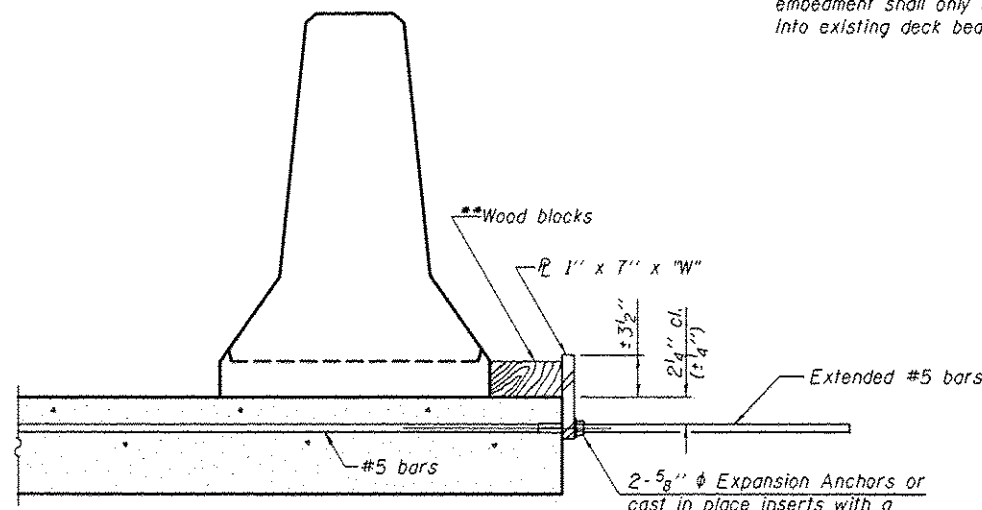
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

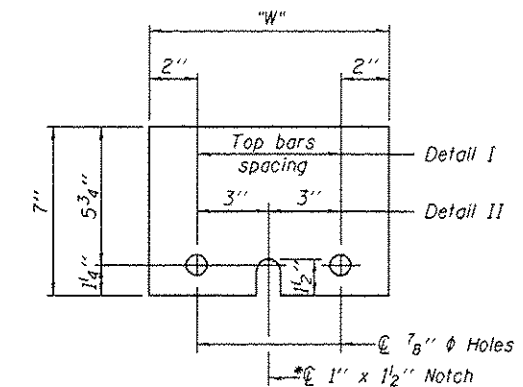
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



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

* Required only with Detail II

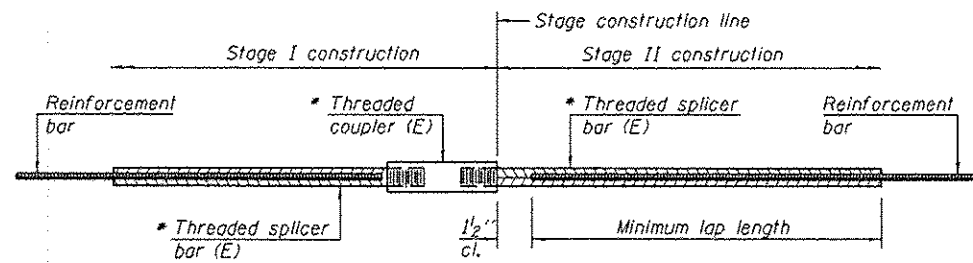
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

DESIGNED TLC	EXAMINED Timothy A. Anhalt	DATE JANUARY 15, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER SN 101-0003	F.A. RTE. 734	SECTION D2 DECK REPAIR 2015-2	COUNTY WINNEBAGO	TOTAL SHEETS 22	SHEET NO. 21	
CHECKED ATH	PASSED J. Schneller	REVISED			CONTRACT NO. 64K42					
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			ILLINOIS FED. AID PROJECT					
CHECKED TLC ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			SHEET NO. 4 OF 5 SHEETS					



STANDARD BAR SPLICER ASSEMBLY

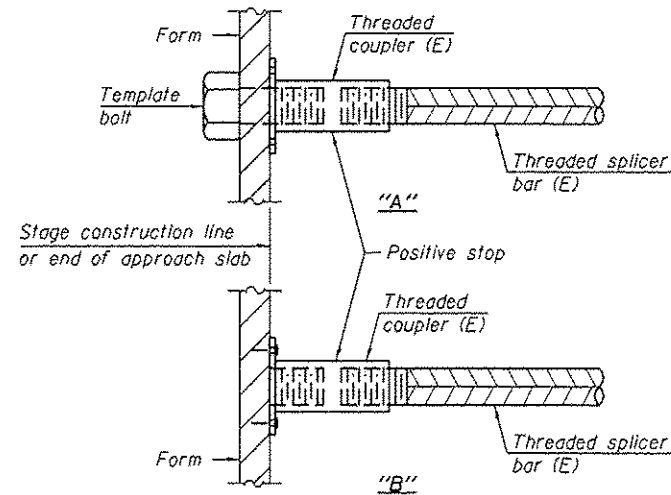
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- Table 1: Black bar, 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 + 1/2" + thread length

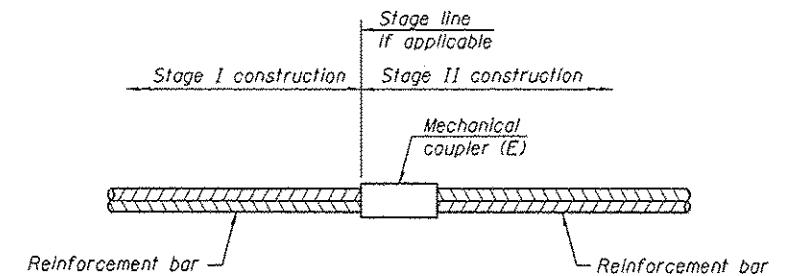
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
N. Abut. Hatch Block	#6	6	3
N. End of Deck	#5	8	3
S. Abut. Hatch Block	#6	6	3
S. End of Deck	#5	8	3



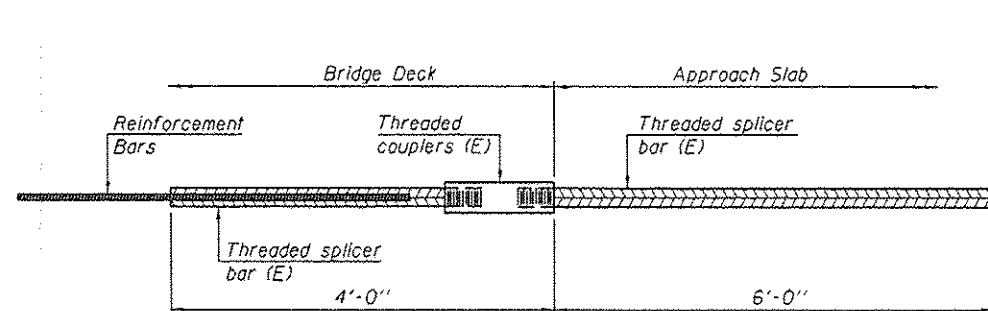
INSTALLATION AND SETTING METHODS

"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.



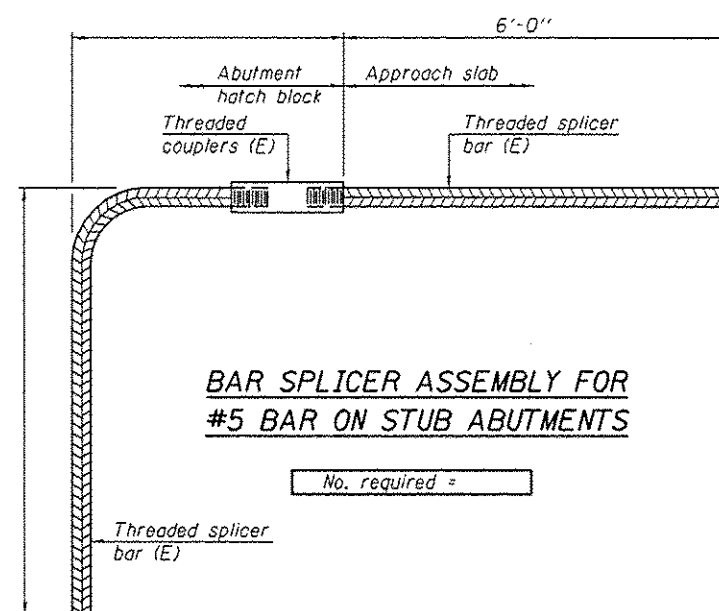
STANDARD MECHANICAL SPLICER

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