

03-03-2017 LETTING ITEM 097

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	1
ILLINOIS			CONTRACT NO. 64L82	

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

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 88 (I-88)
SECTION D2 BRR 2017-2
TYPE OF IMPROVEMENT: BRIDGE REPAIRS
WHITESIDE COUNTY

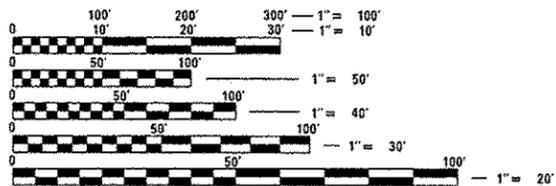
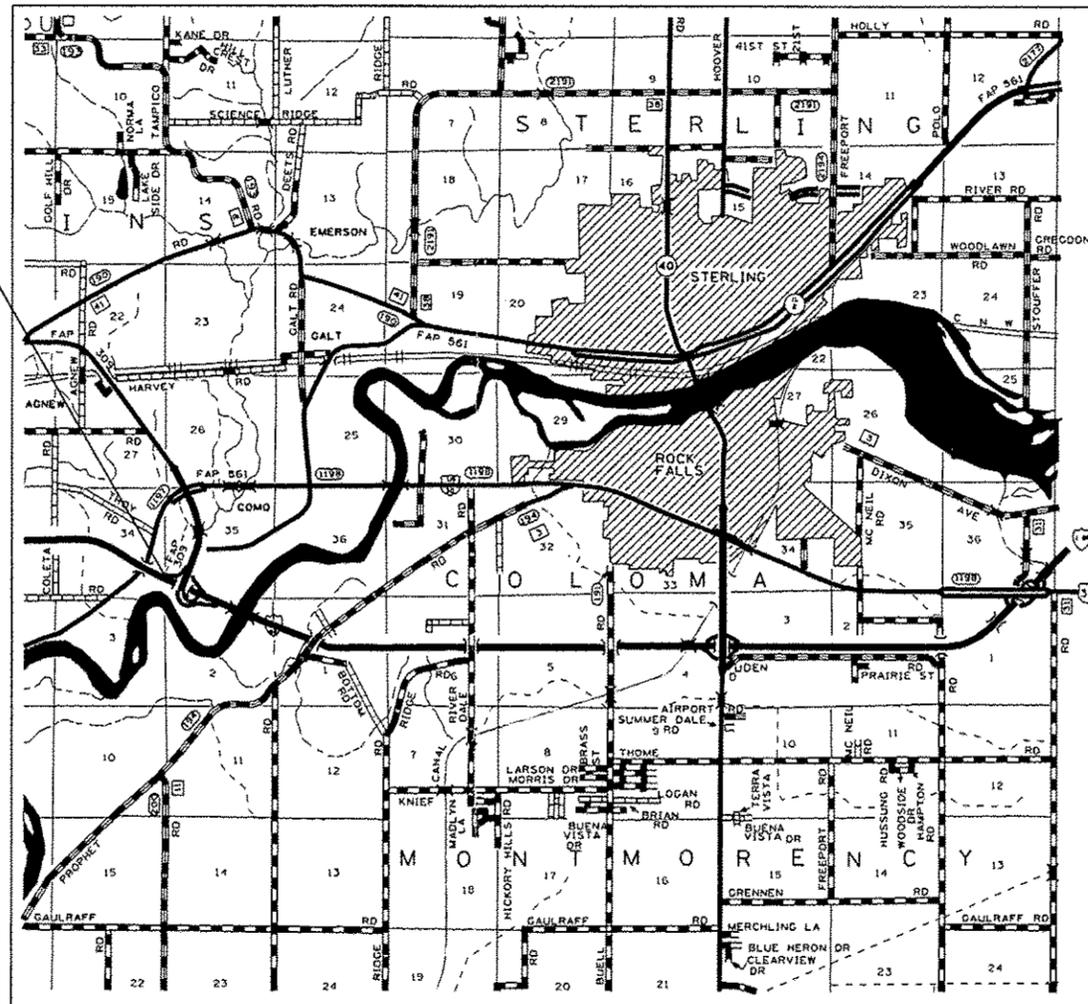
C-92-010-17

D-92-103-16



HOPKINS TOWNSHIP - SECTION 35

SN 098-0075
SN 098-0076



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

CONTRACT NO. 64L82

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JAN 4 2017
Kevin Marchek REGIONAL ENGINEER

Jan 27 2017
Maureen M. Addis PE ENGINEER OF DESIGN AND ENVIRONMENT

Jan 27 2017
Maureen M. Addis DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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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 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.

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 - 05	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 - 09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402 - 12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411 - 09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426 - 09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
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)

FILE NAME : D:\BR\Goss\Whiteside\64L82 Bridge Repair	USER NAME : drossd	DESIGNED -	REVISED - 8-18-2014 DD	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE : Jan-04-2017 07:14:33 AM	DATE -	REVISED -	CONTRACT NO. 64L82						

SUMMARY OF QUANTITIES

0014
100%
STATE

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
42001300	PROTECTIVE COAT	SQ YD	30.4
50102400	CONCRETE REMOVAL	CU YD	21
50300255	CONCRETE SUPERSTRUCTURE	CU YD	21.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,170
50800515	BAR SPLICERS	EACH	48
52000110	PREFORMED JOINT STRIP SEAL	FOOT	162
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	15,000
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,225
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,175
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78001110	PAINT PAVEMENT MARKING LINE - 4"	FOOT	7,716
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5,679

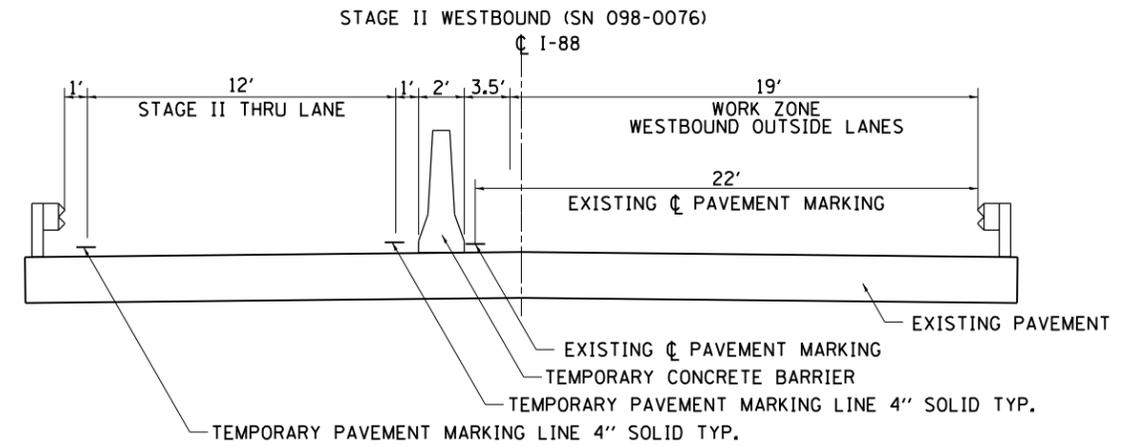
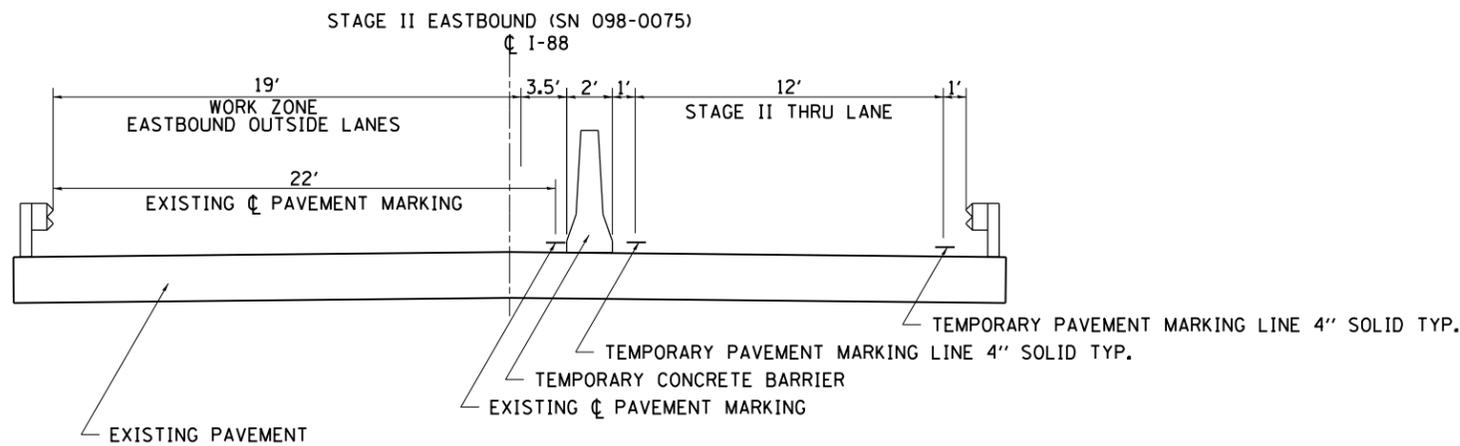
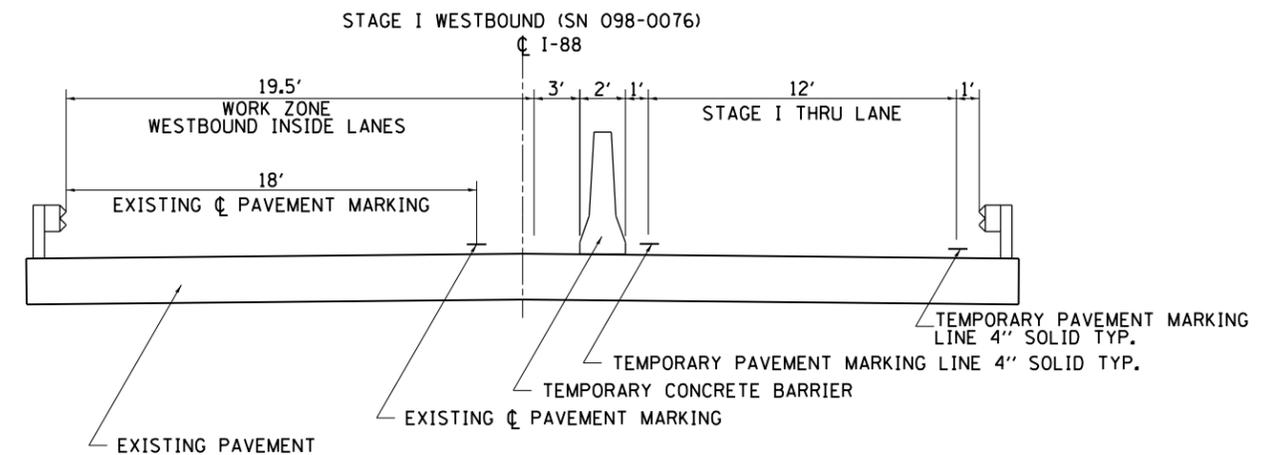
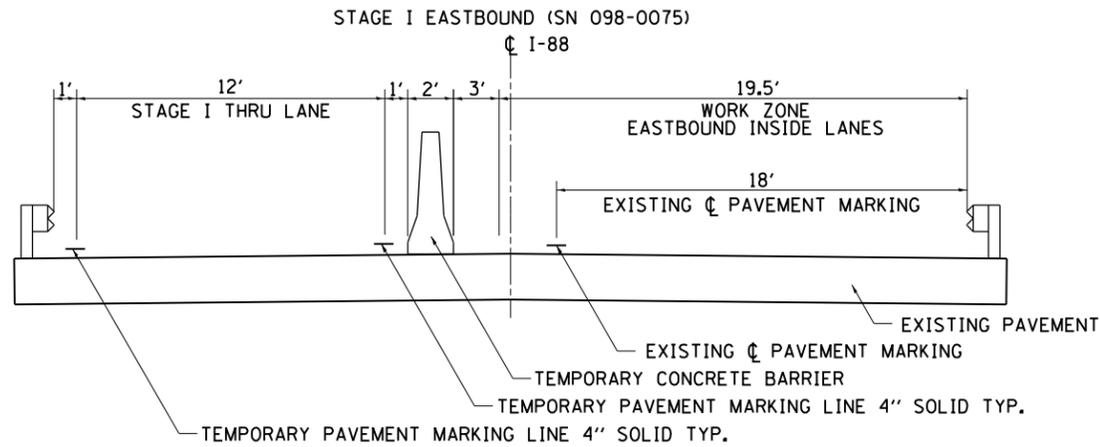
16

* SPECIALTY ITEMS

FILE NAME : D:\BR\Draw\Whiteside\64L82 Bridge Rep	USER NAME : dmsdd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE. 88	SECTION D2 BRR 2017-2	COUNTY WHITESIDE	TOTAL SHEETS 40	SHEET NO. 3	CONTRACT NO. 64L82
Default	SN 098-0075 & 098-0076\0400\02-shr	DRAWN - _____	REVISOR - _____	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT					

REV

STAGING TYPICALS FOR SN 098-0075 & 098-0076



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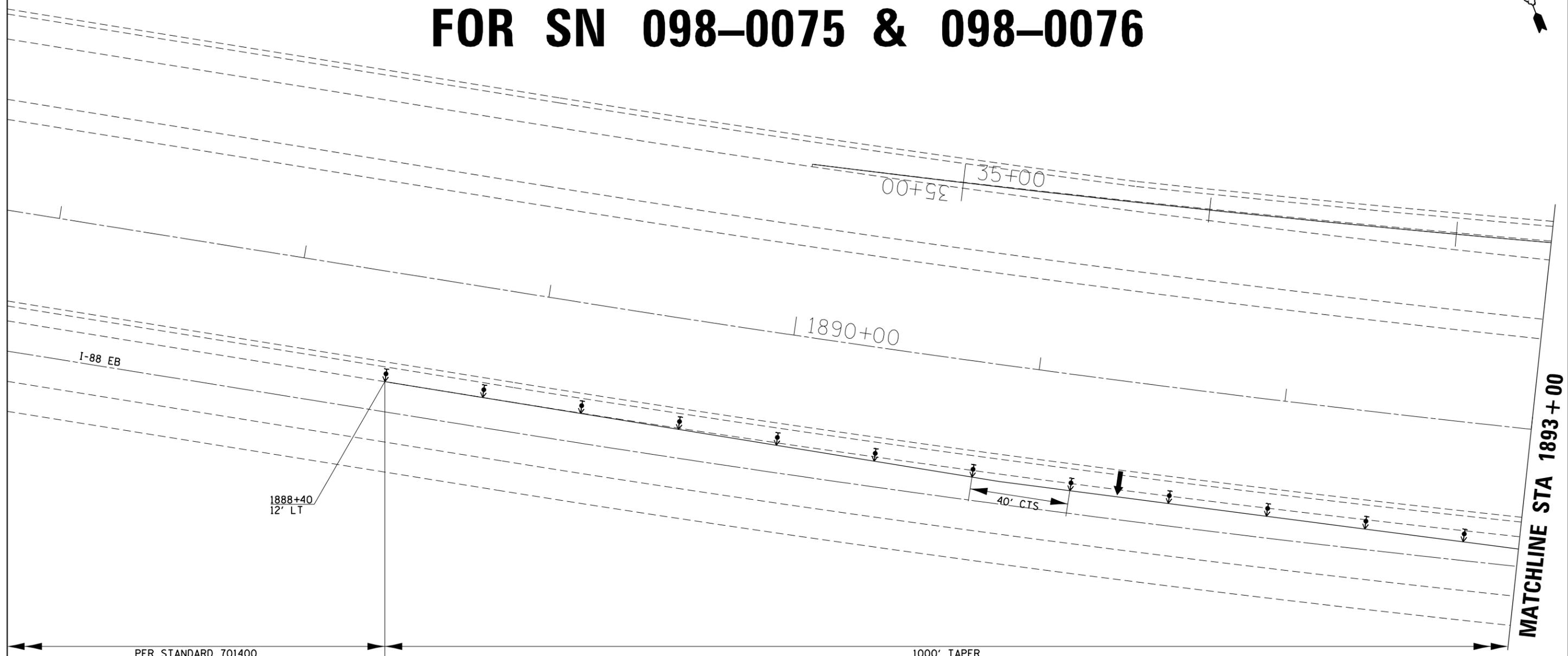
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICALS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	5
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE I PLANS FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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.
- 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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

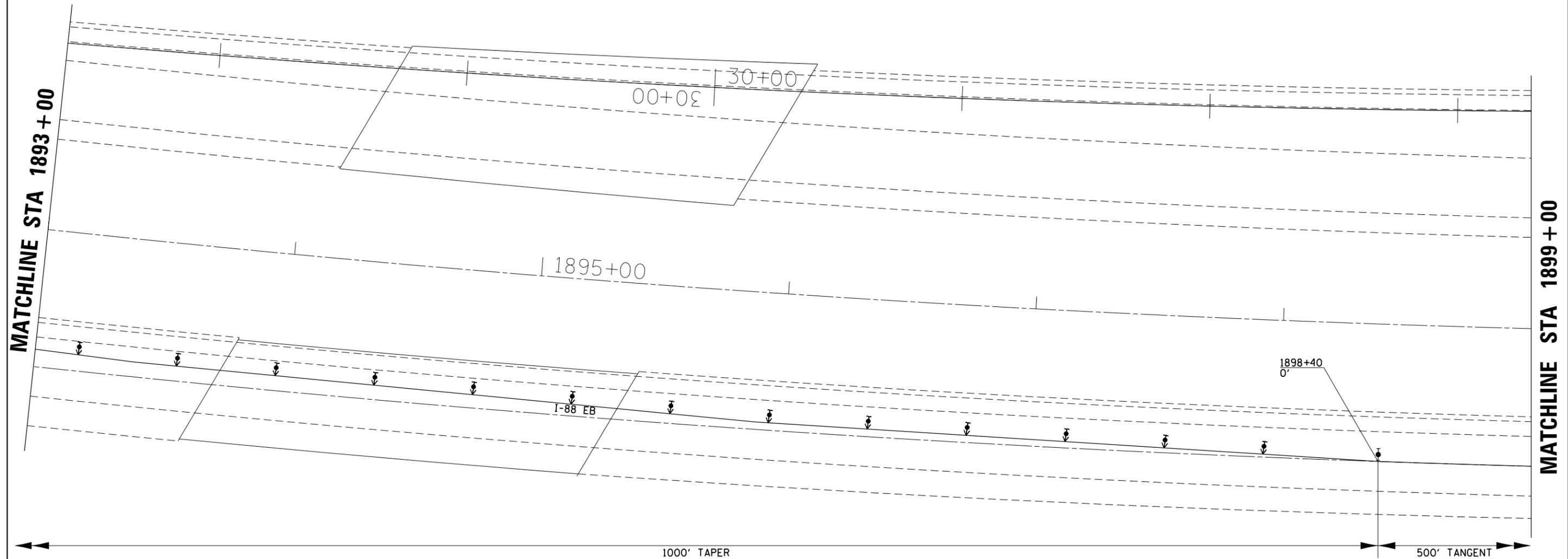
**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	6
CONTRACT NO. 64L82			ILLINOIS FED. AID PROJECT	

STAGE I PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- ↑ Arrow board
- ▨ 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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

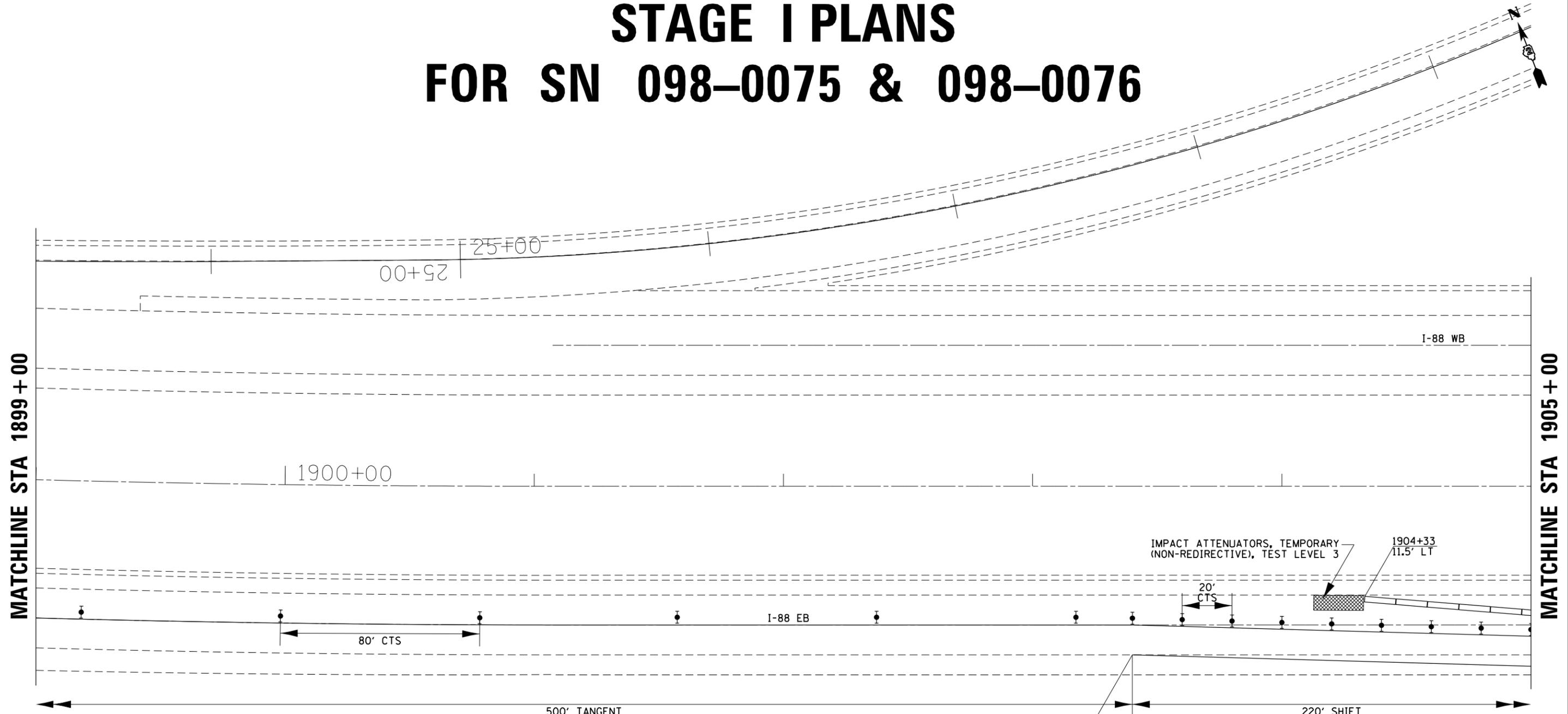
**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	7
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE I PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

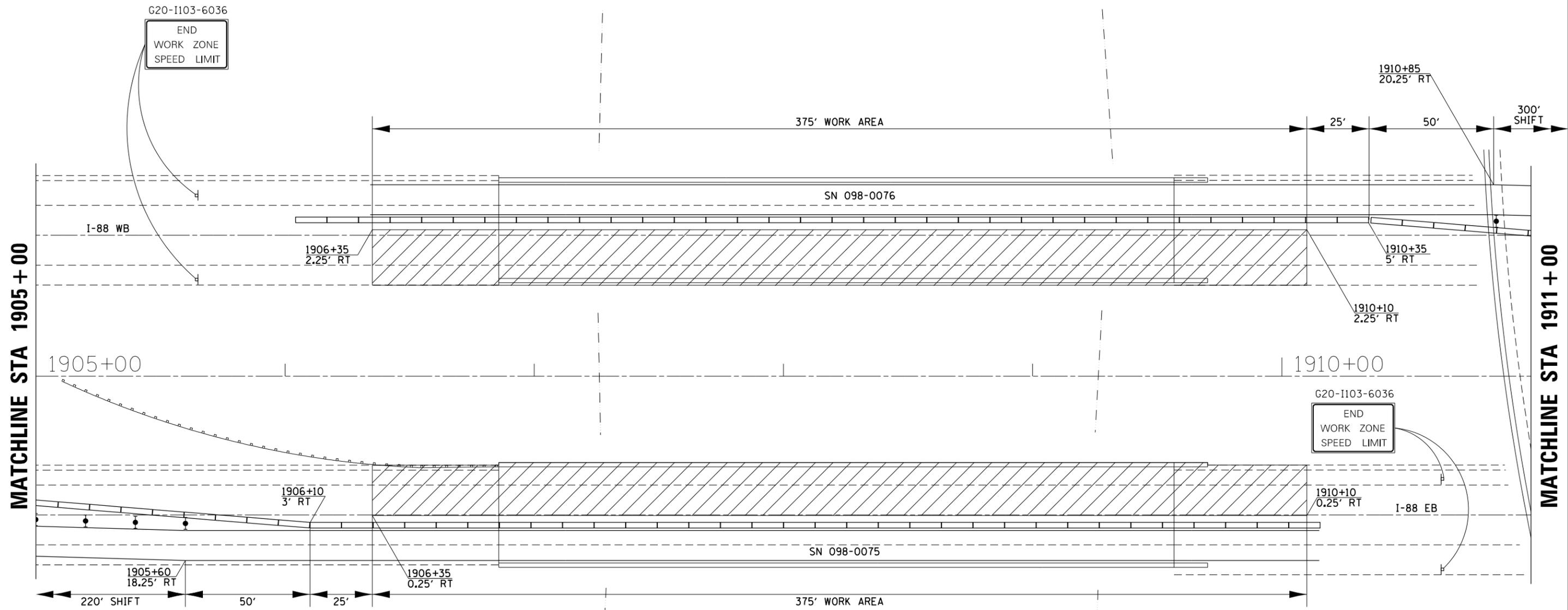
**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	8
CONTRACT NO. 64L82				
ILLINOIS FED. AID PROJECT				

STAGE I PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

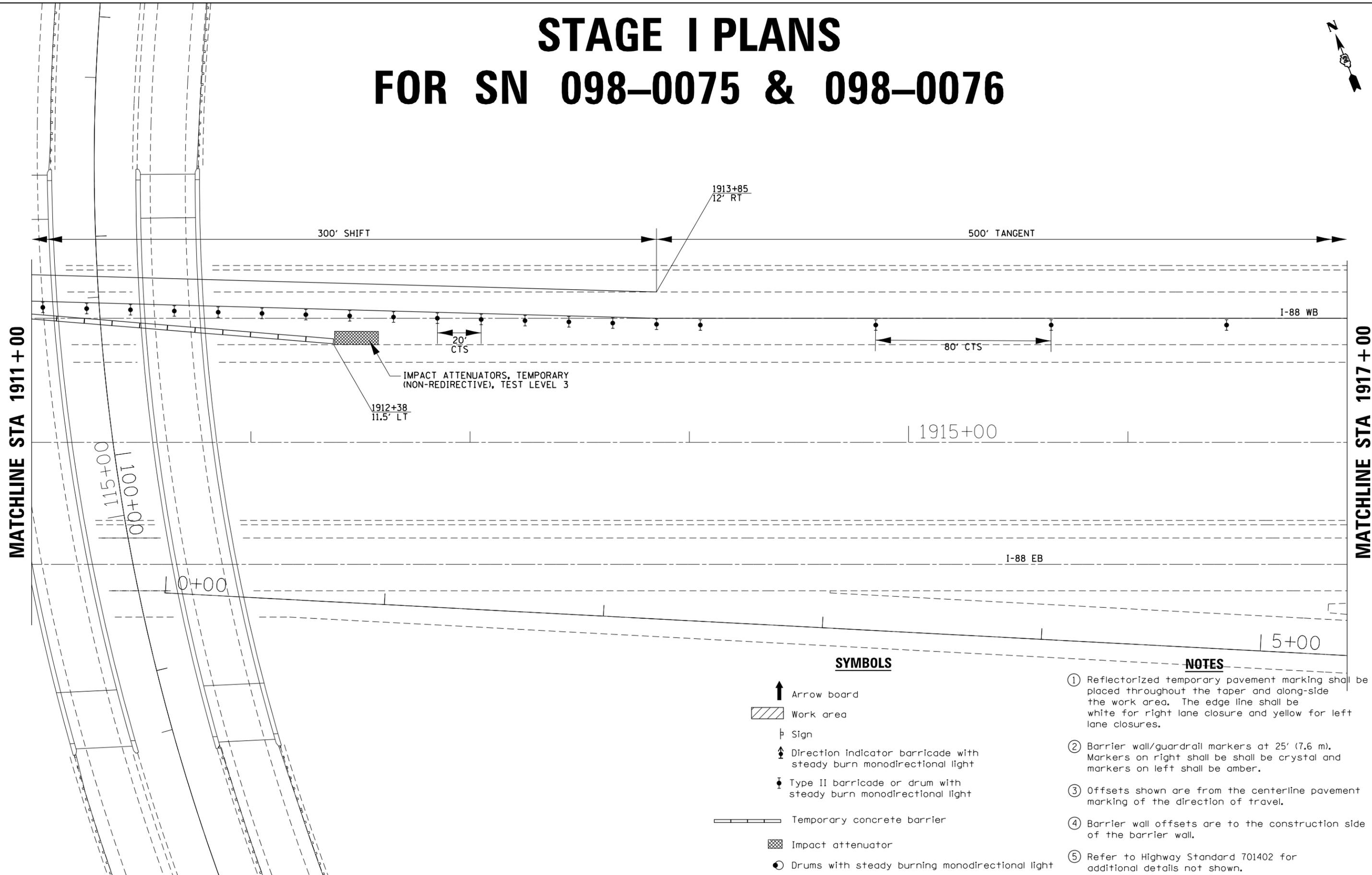
- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
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- Impact attenuator
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FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I PLANS FOR SN 098-0075 & 098-0076	F.A.I. RTE. 88	SECTION D2 BRR 2017-2	COUNTY WHITESIDE	TOTAL SHEETS 40	SHEET NO. 9	
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		DATE - _____	REVISED - _____								

STAGE I PLANS FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

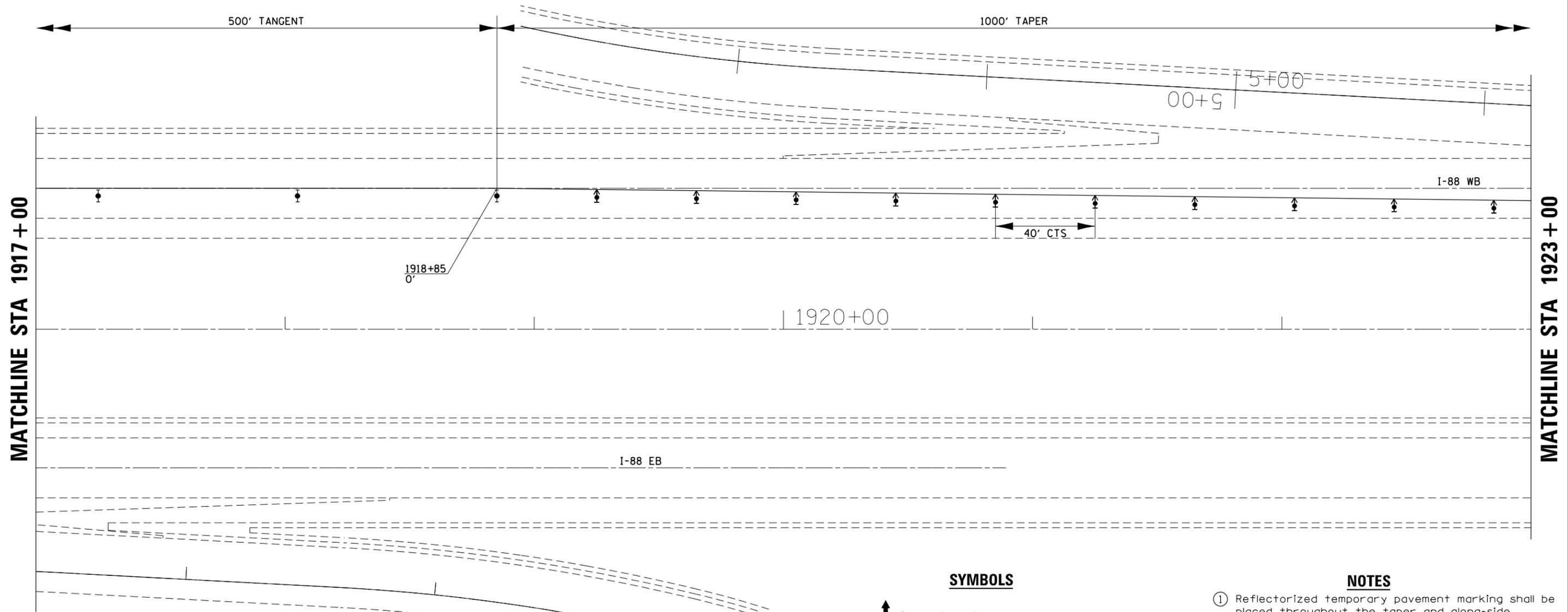
**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	10
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE I PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- Work area
- Sign
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

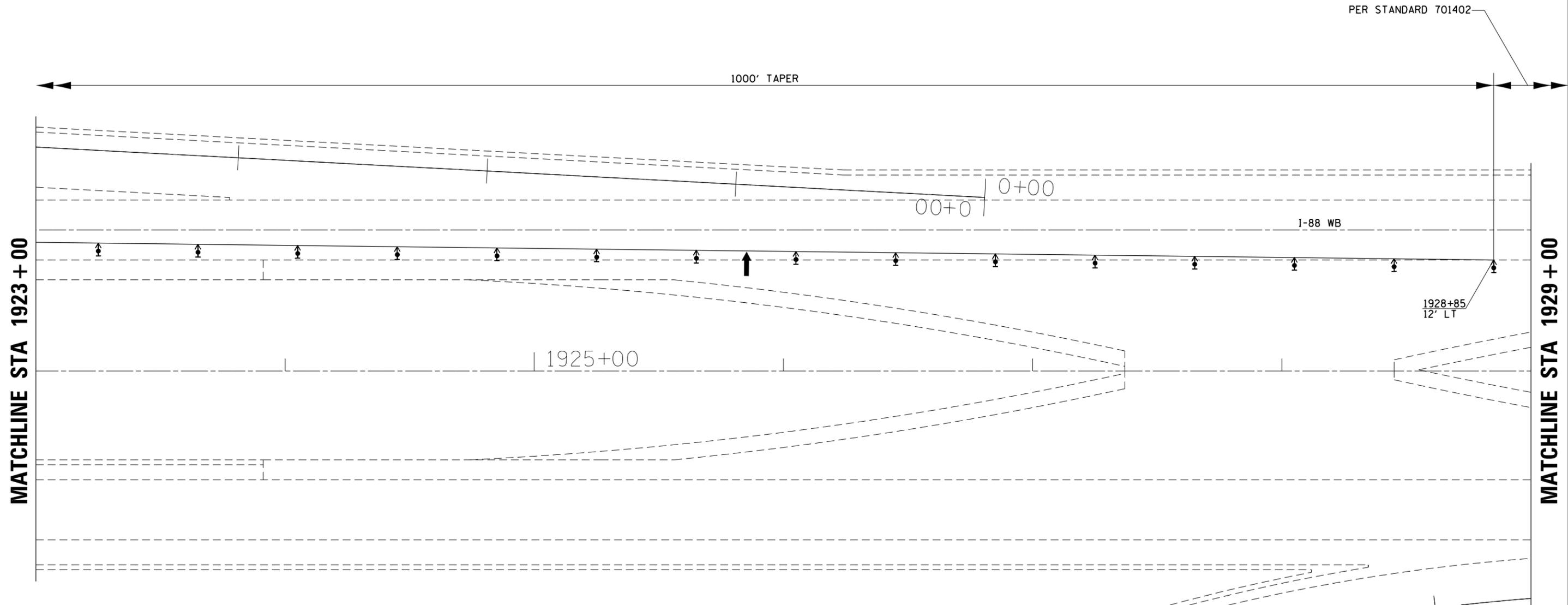
**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	11
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE I PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
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FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - _____
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

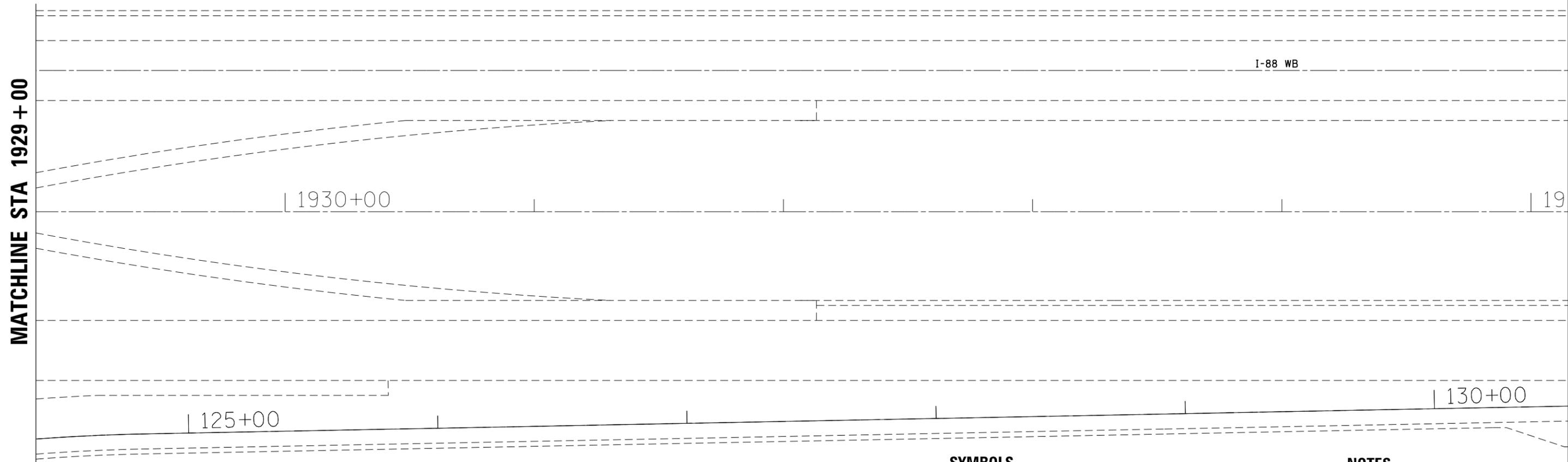
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	12
CONTRACT NO. 64L82			ILLINOIS FED. AID PROJECT	

STAGE I PLANS

FOR SN 098-0075 & 098-0076



PER STANDARD 701400



SYMBOLS

- Arrow board
- 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
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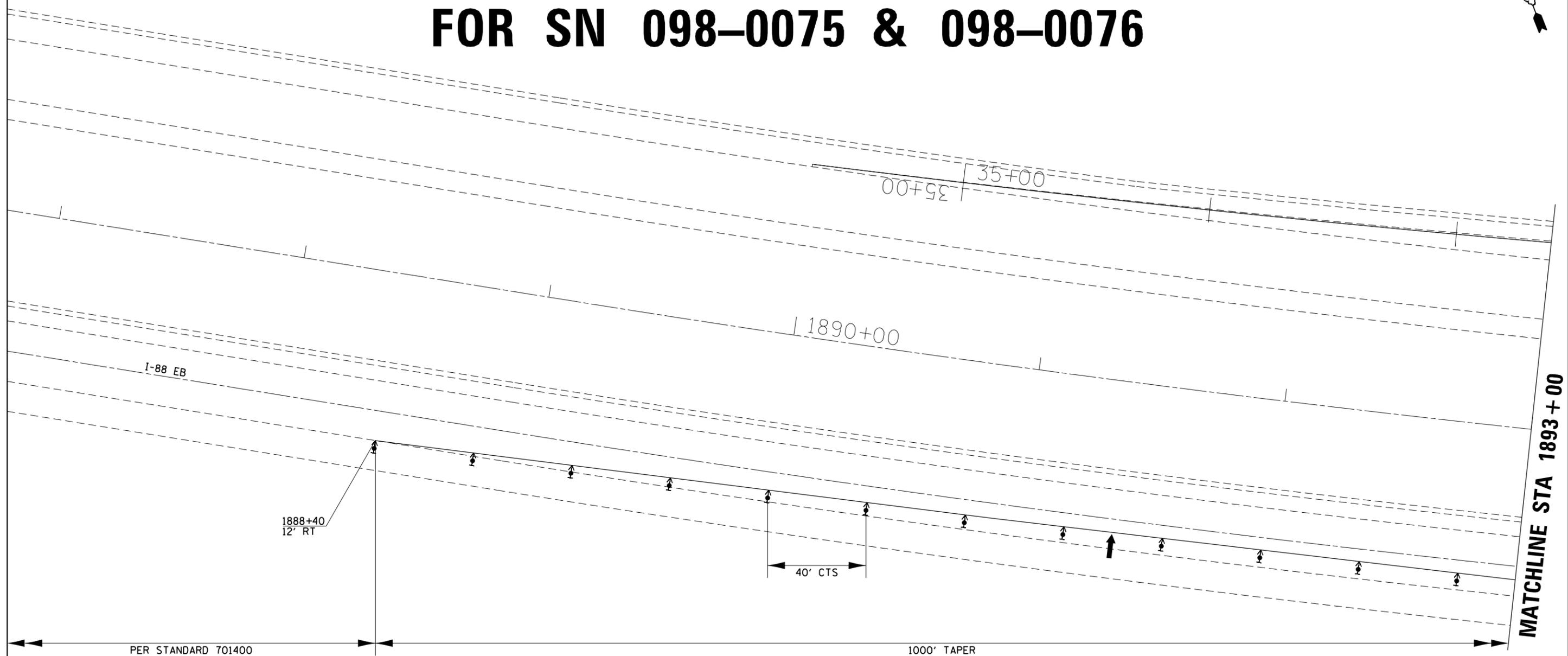
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	13
CONTRACT NO. 64L82				
ILLINOIS FED. AID PROJECT				

STAGE II PLANS FOR SN 098-0075 & 098-0076



PER STANDARD 701400

1000' TAPER

MATCHLINE STA 1893+00

SYMBOLS

- Arrow board
- 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

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- ⑤ Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
Q:\BR\Draws\Whiteside\64L82 Bridge Repairs	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN - _____	REVISED - _____
Default	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____
	PLOT DATE = Jan-04-2017 07:15:42 AM	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

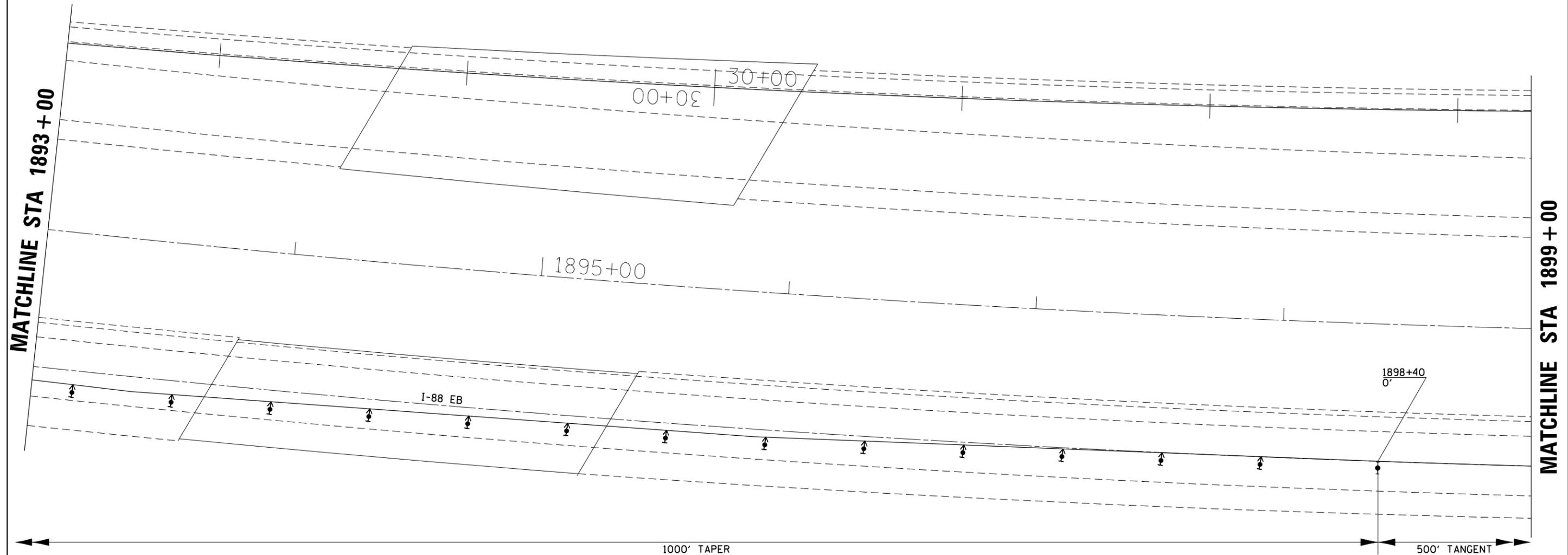
**STAGE II PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	14
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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.
- 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 = dosddd	DESIGNED - _____	REVISED - _____
Default		DRAWN - _____	REVISED - _____
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	PLOT DATE = Jan-04-2017 07:15:47 AM	DATE - _____	REVISED - _____

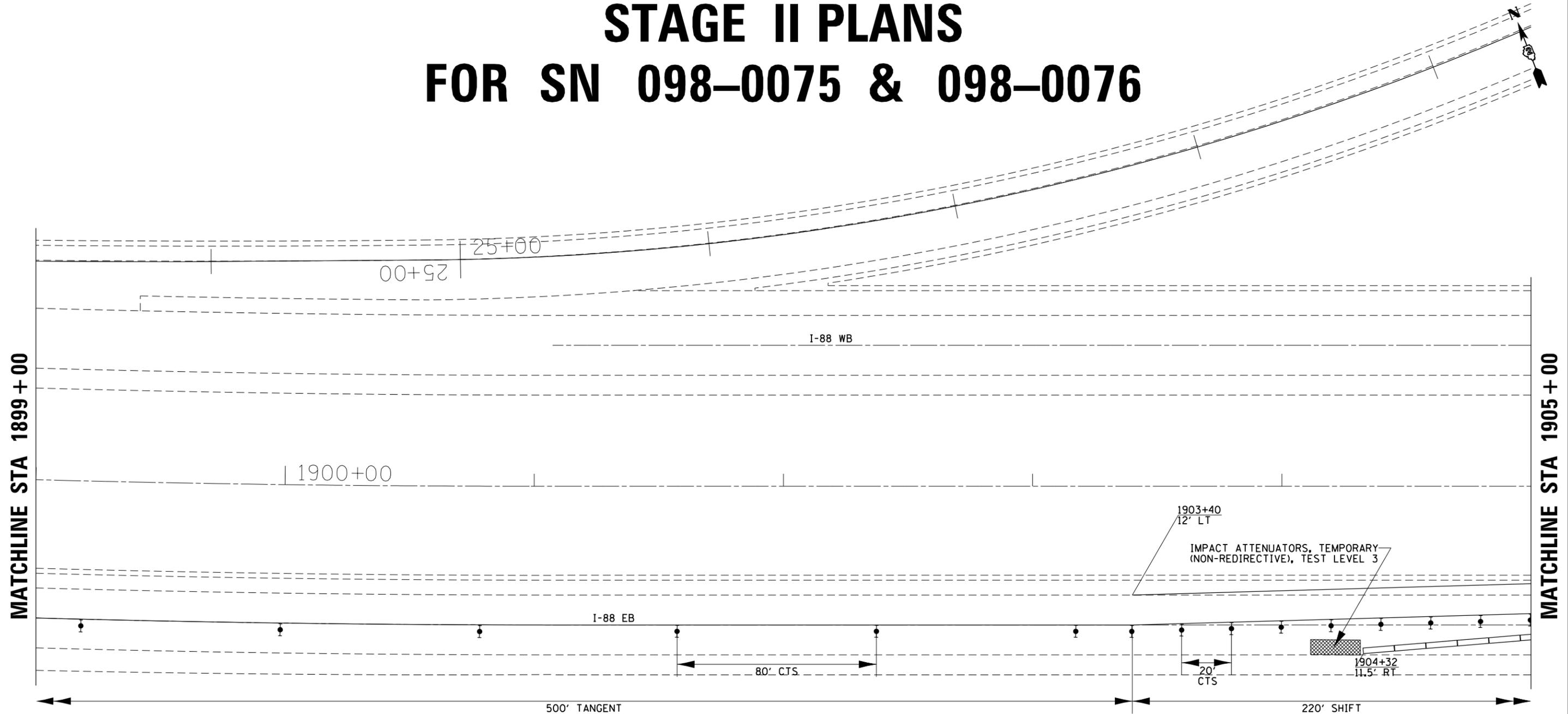
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE II PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	15
CONTRACT NO. 64L82			ILLINOIS FED. AID PROJECT	

STAGE II PLANS FOR SN 098-0075 & 098-0076



SYMBOLS

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

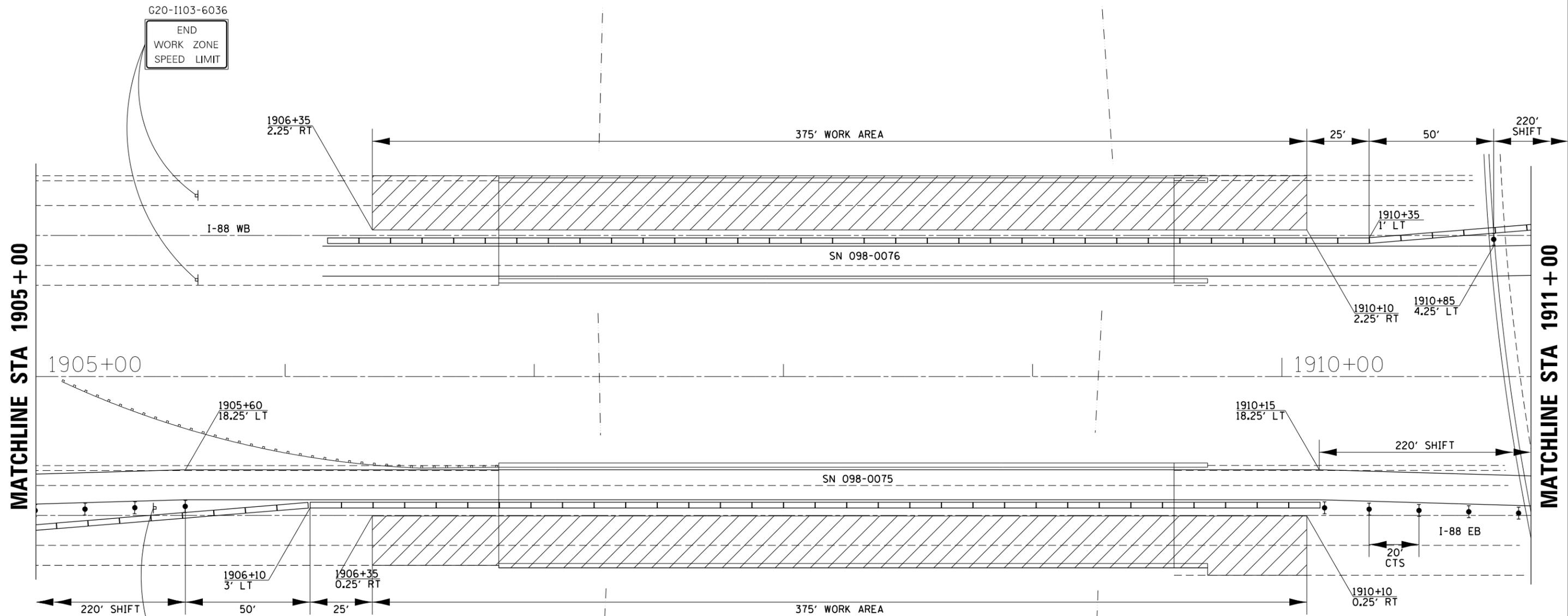
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Default		CHECKED - _____	REVISED - _____
	PLOT DATE = Jan-04-2017 07:15:52 AM	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II PLANS FOR SN 098-0075 & 098-0076			
SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	16
CONTRACT NO. 64L82				
ILLINOIS FED. AID PROJECT				

STAGE II PLANS FOR SN 098-0075 & 098-0076



G20-I103-6036
END
WORK ZONE
SPEED LIMIT

EXIT
OPEN
AHEAD

D4-I102(G)-3648

SYMBOLS

- Arrow board
- 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.
- 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 = dosddd	DESIGNED - _____	REVISED - _____
Default		DRAWN - _____	REVISED - _____
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	PLOT DATE = Jan-04-2017 07:15:57 AM	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

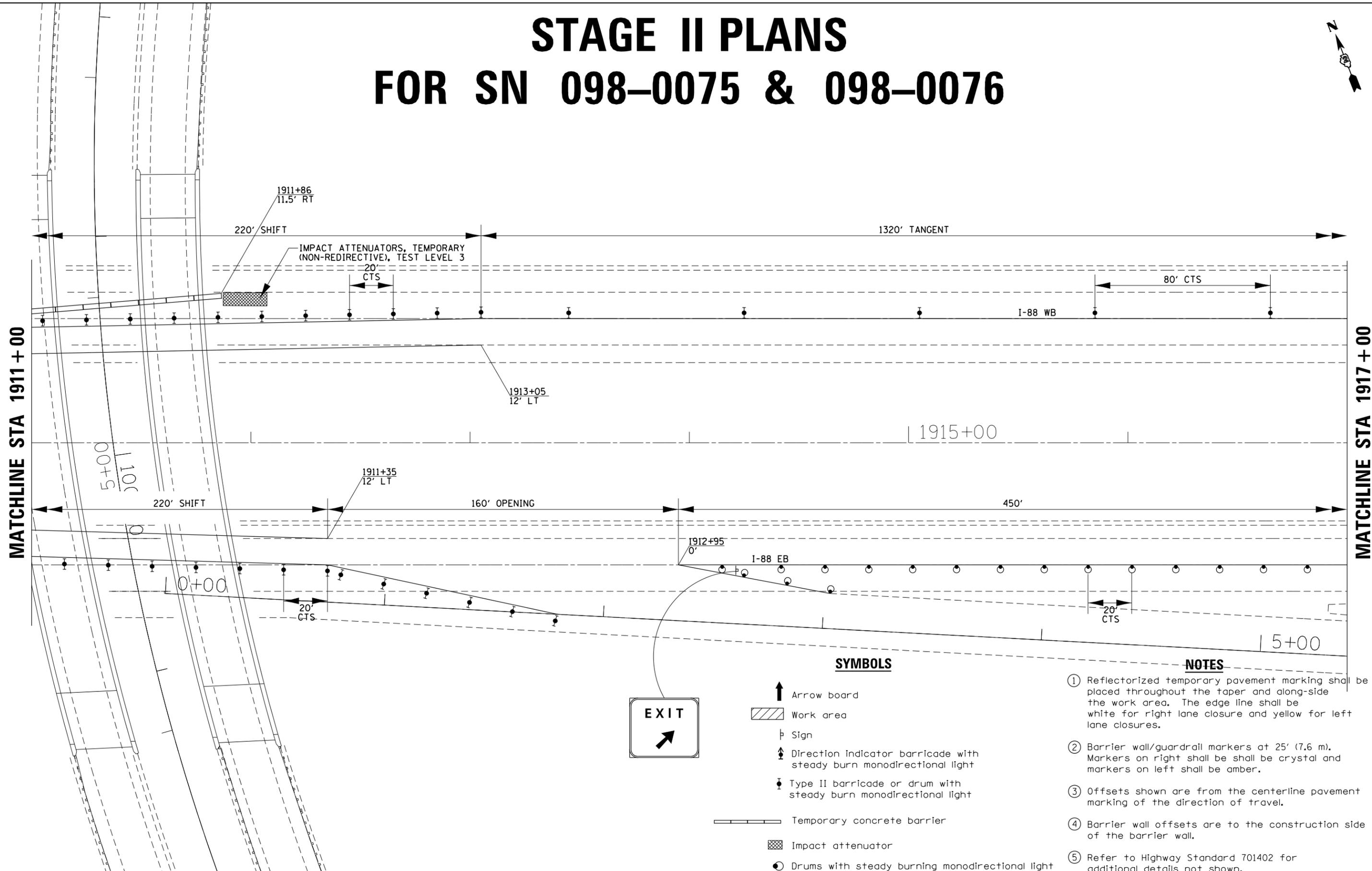
**STAGE II PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	17
CONTRACT NO. 64L82				
ILLINOIS FED. AID PROJECT				

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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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- 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 -
D:\BR\Draws\Whiteside\64L82 Bridge Reports	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jan-04-2017 07:16:02 AM	DATE -	REVISED -

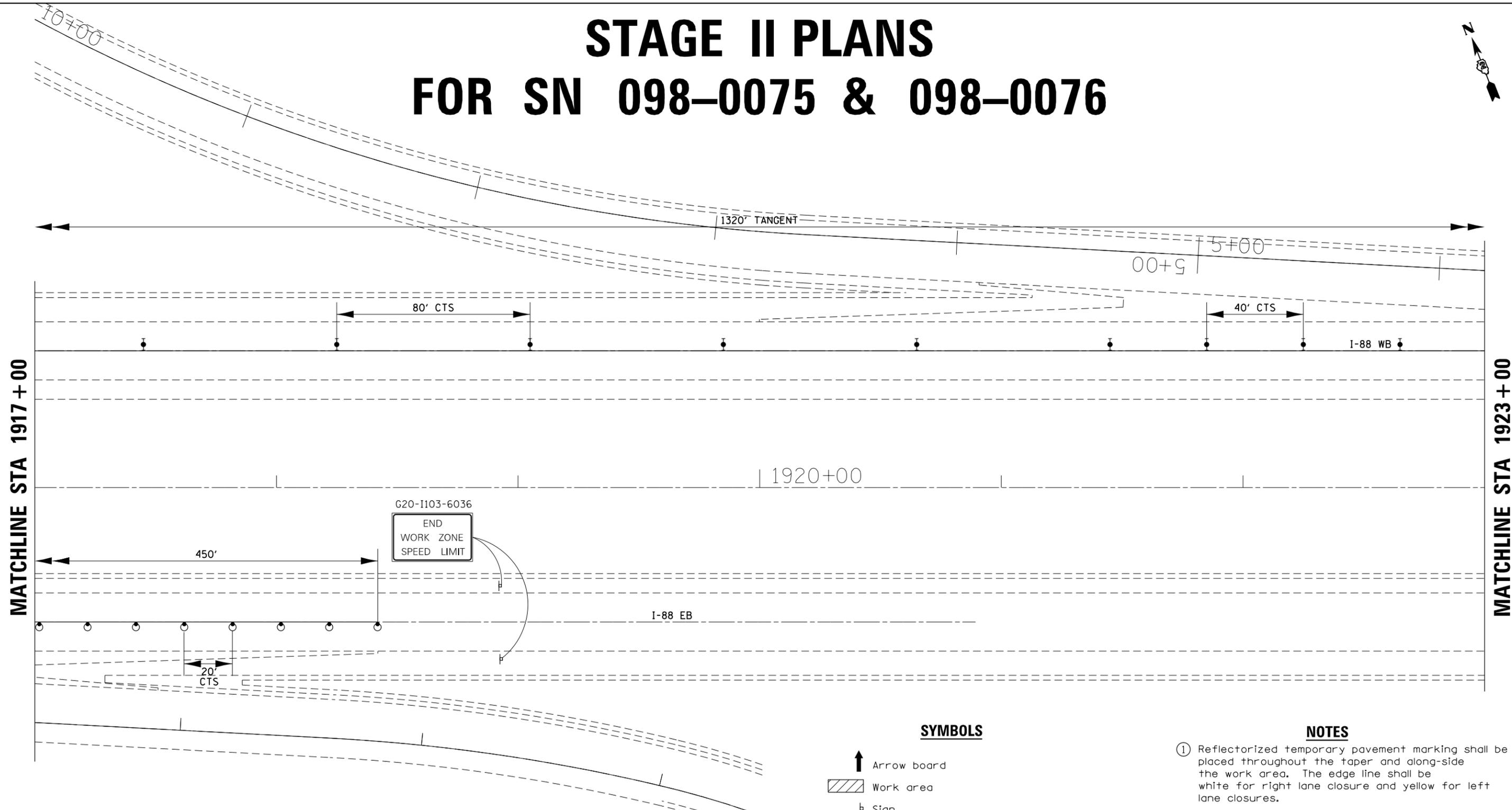
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II PLANS
FOR SN 098-0075 & 098-0076

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	18
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE II PLANS FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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

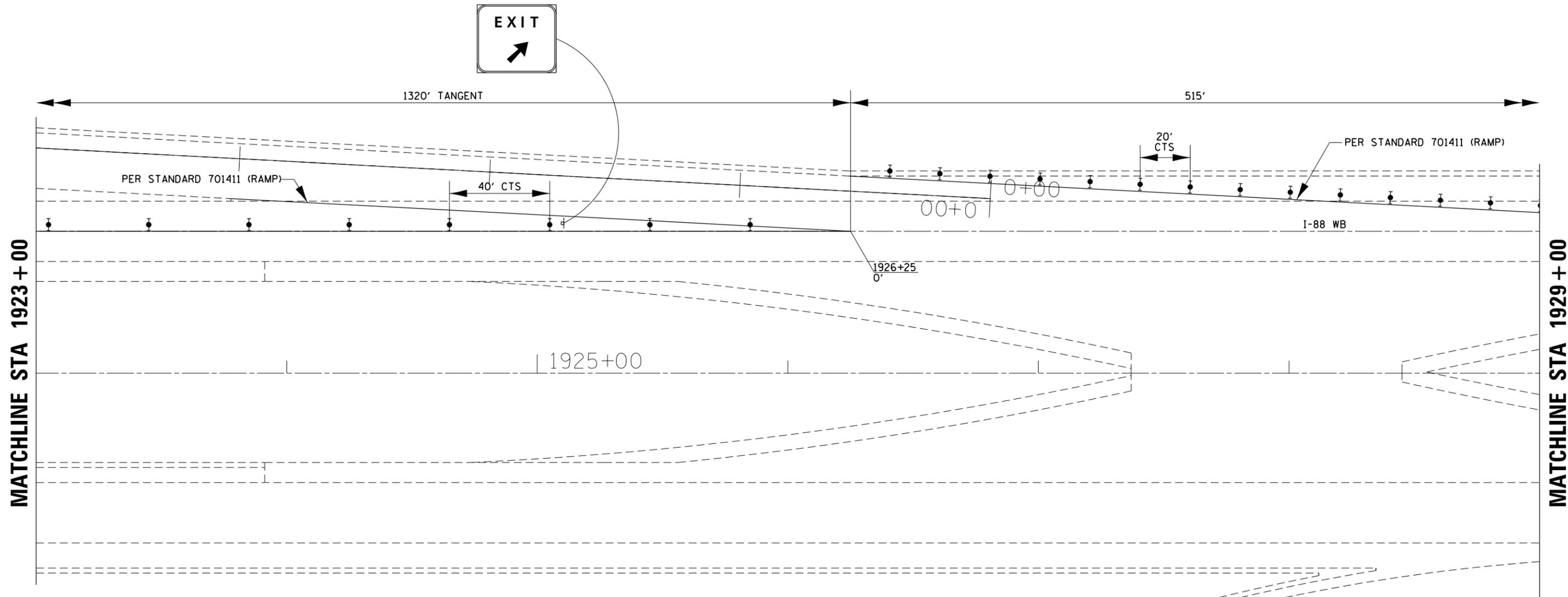
NOTES

- 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.
- 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 - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II PLANS FOR SN 098-0075 & 098-0076	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
Default	Q:\BR\Draws\Whiteside\64L82 Bridge Repairs SN 098-0075 & 098-0076\CADD\02-sht-cover	DRAWN - _____	REVISED - _____			88	D2 BRR 2017-2	WHITESIDE	40	19	
	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64L82					
	PLOT DATE = Jan-04-2017 07:16:07 AM	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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.
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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 - _____
Q:\BR\Drawings\Whiteside\64L82 Bridge Repairs SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN - _____	CHECKED - _____	REVISED - _____
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____
	PLOT DATE = Jan-04-2017 07:16:12 AM		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

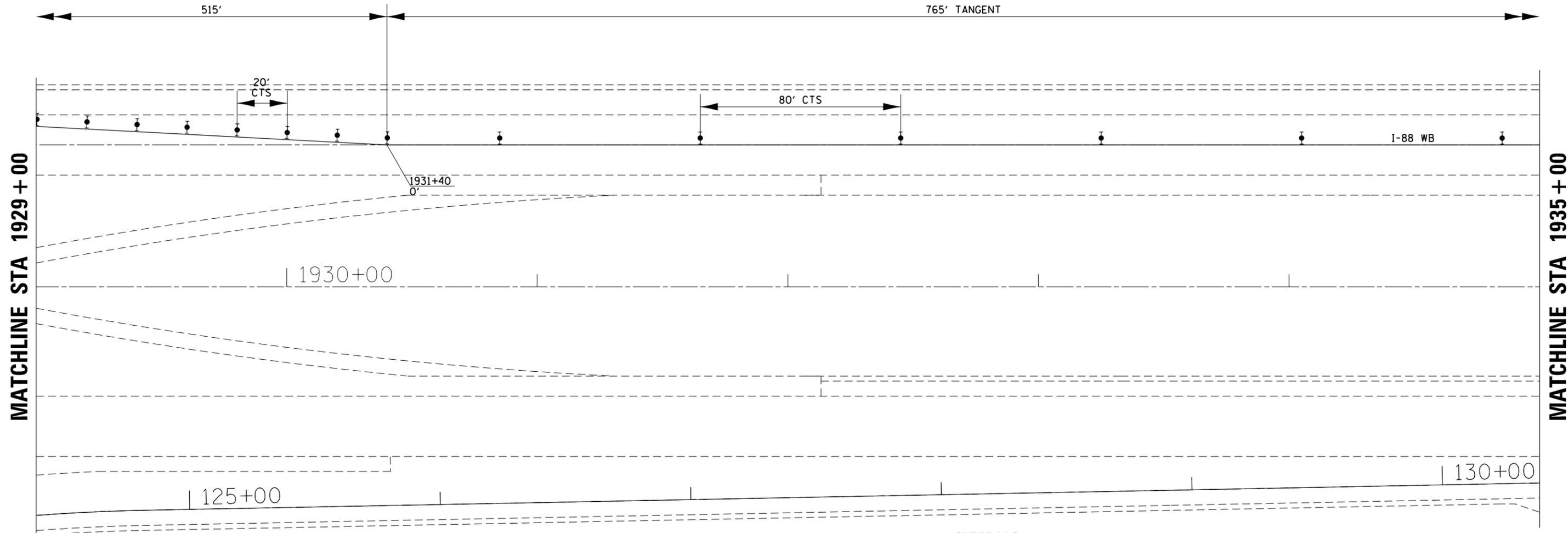
**STAGE II PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	20
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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

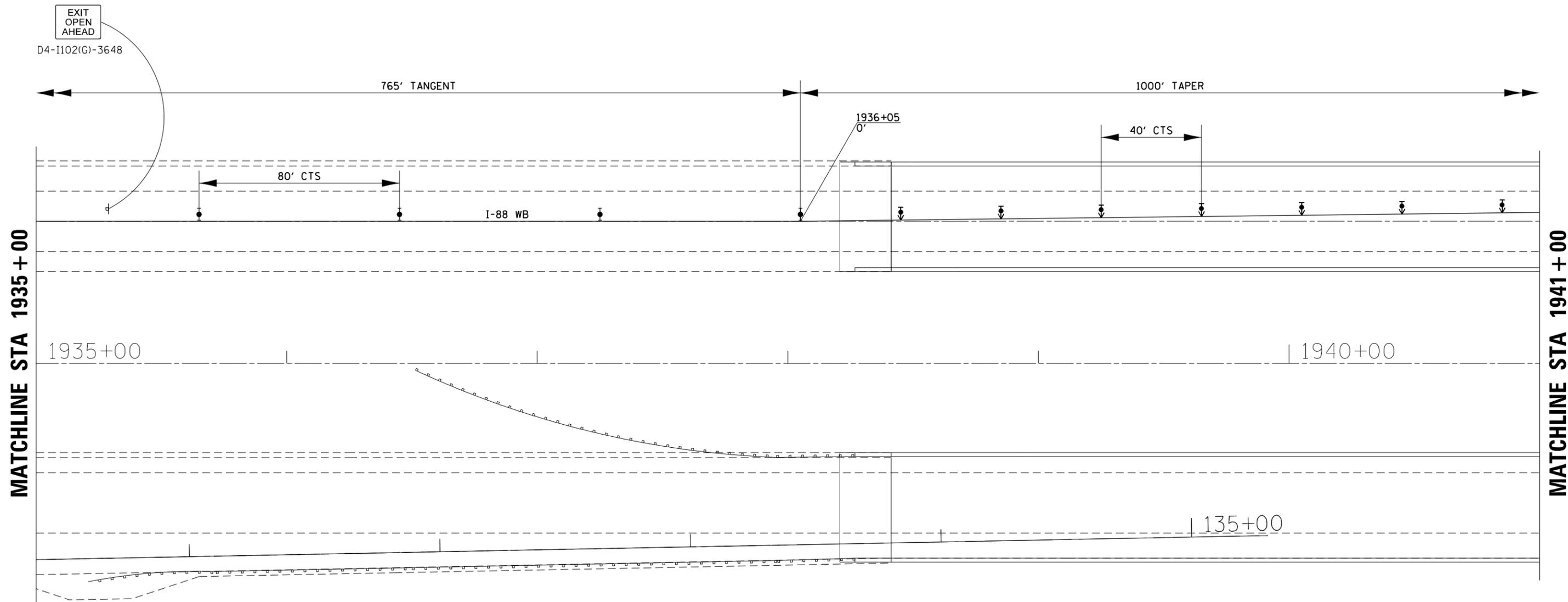
NOTES

- 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.
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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.

FILE NAME =	USER NAME = dssdd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II PLANS FOR SN 098-0075 & 098-0076	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
Q:\BR\Draws\Whiteside\64L82 Bridge Repairs SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN - _____	REVISED - _____	REVISED - _____			88	D2 BRR 2017-2	WHITESIDE	40	21	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64L82			
	PLOT DATE = Jan-04-2017 07:16:21 AM	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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.
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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 = dossed	DESIGNED - _____	REVISED - _____
Q:\BR\Draws\Whiteside\64L82 Bridge Repairs SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN - _____	CHECKED - _____	REVISED - _____
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____
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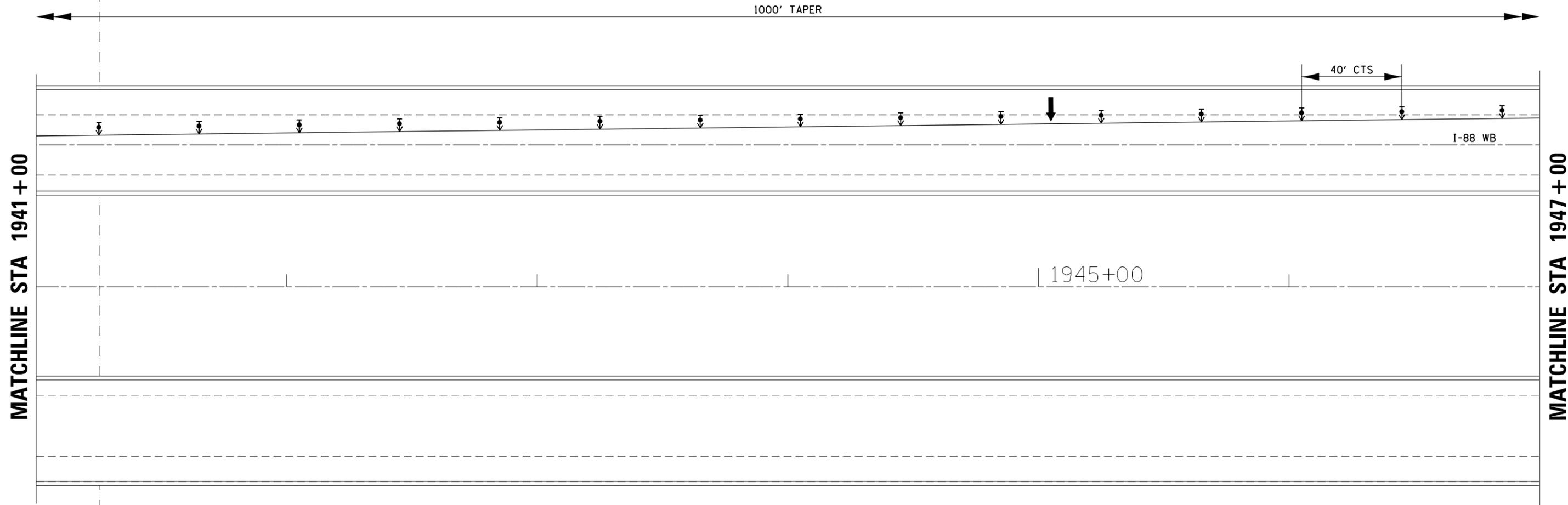
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II PLANS			
FOR SN 098-0075 & 098-0076			
SCALE: _____	SHEET _____	OF _____	SHEETS
STA. _____		TO STA. _____	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	22
CONTRACT NO.			64L82	
ILLINOIS FED. AID PROJECT				

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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.
- 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 = dossed	DESIGNED - _____	REVISED - _____
Default		CHECKED - _____	REVISED - _____
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

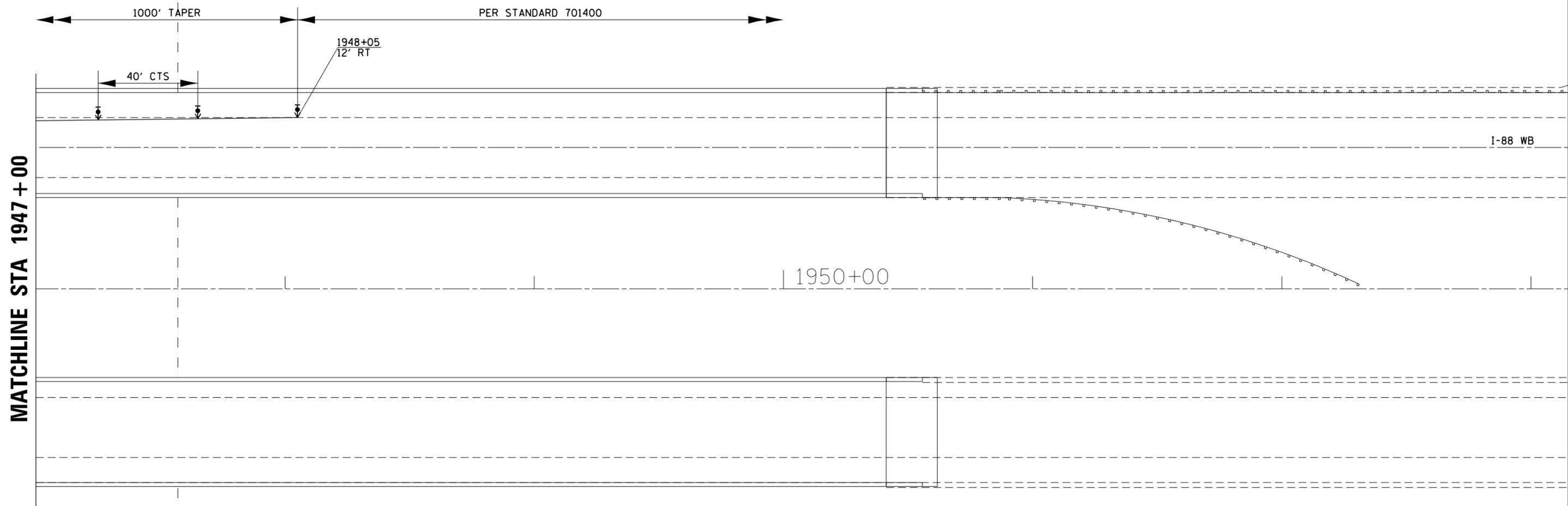
**STAGE II PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	23
CONTRACT NO. 64L82			ILLINOIS FED. AID PROJECT	

STAGE II PLANS

FOR SN 098-0075 & 098-0076



SYMBOLS

- Arrow board
- 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.
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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 = dosddd	DESIGNED - _____	REVISED - _____
Q:\BR\Draws\Whiteside\64L82 Bridge Repairs SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN - _____	CHECKED - _____	REVISED - _____
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

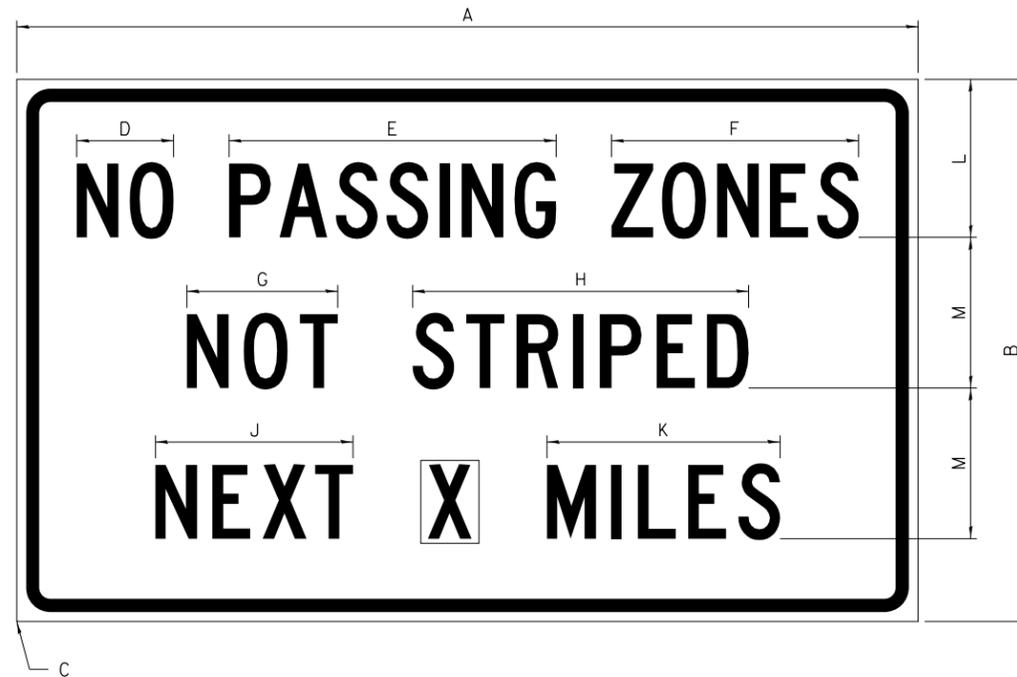
**STAGE II PLANS
FOR SN 098-0075 & 098-0076**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	24
CONTRACT NO. 64L82				
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



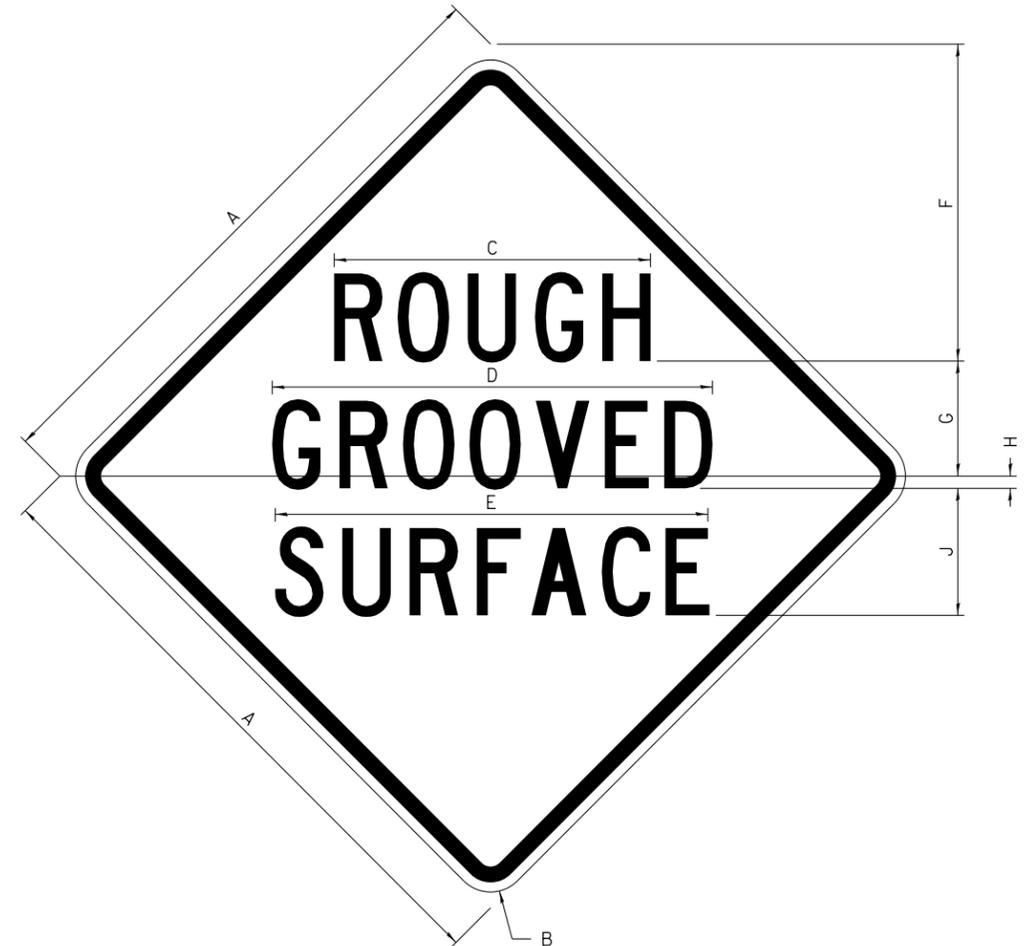
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 3-02-16
D:\BR\Draws\Whiteside\64L82 Bridge Repairs	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jan-04-2017 07:16:42 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

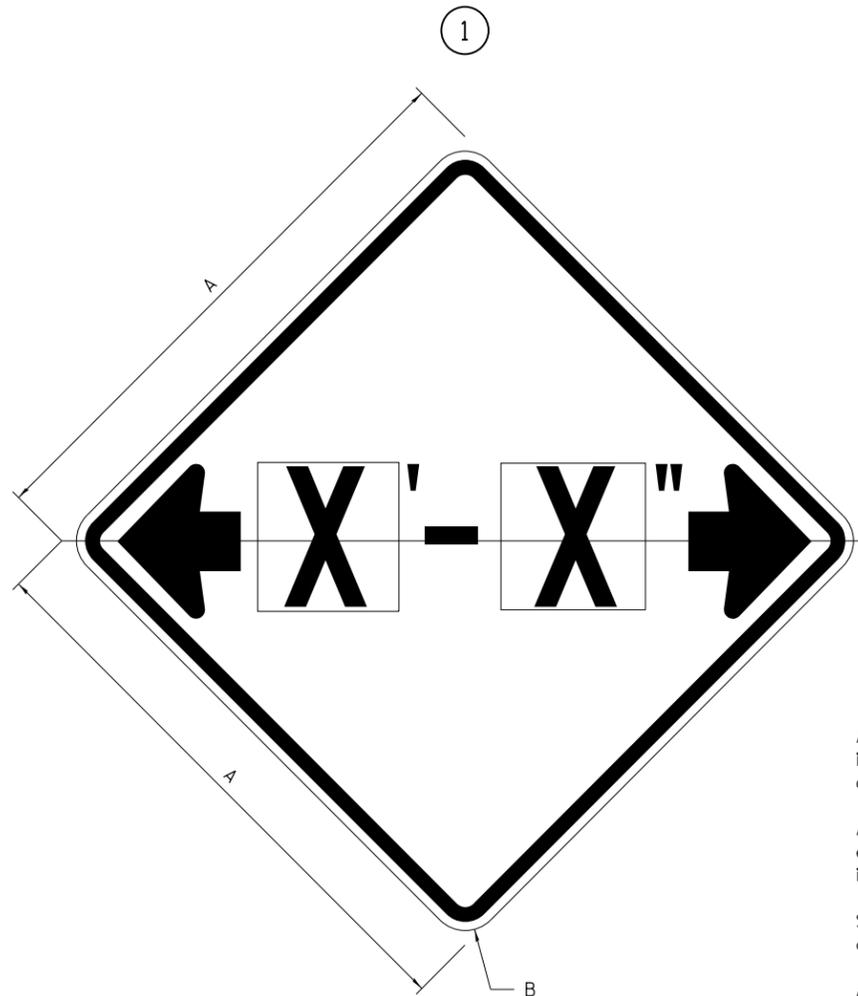
REGION 2 / DISTRICT 2 STANDARD

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

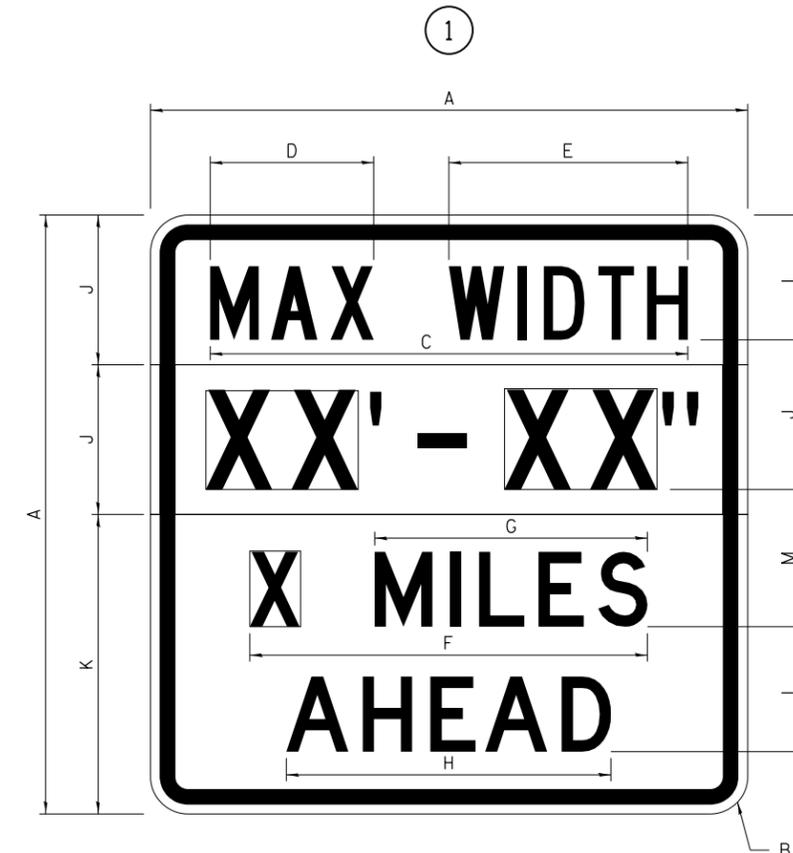
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	25
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L82	

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 3-02-16
D:\BR\Draws\Whiteside\64L82 Bridge Reports	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jan-04-2017 07:16:59 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

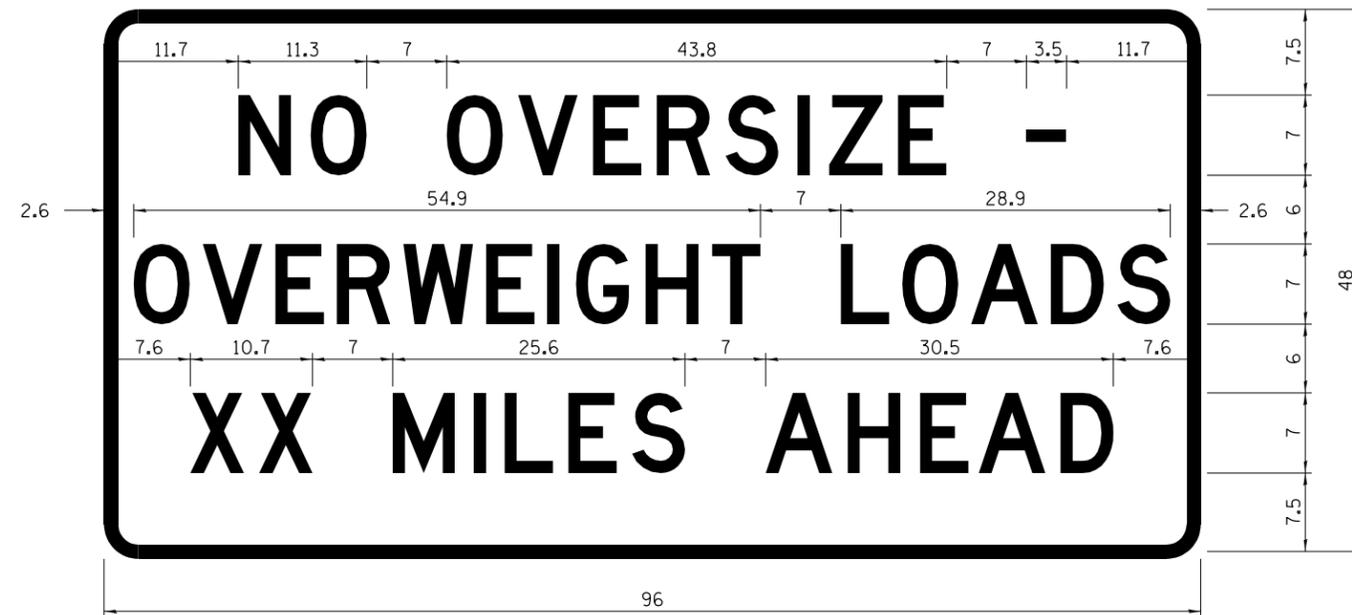
SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	26
CONTRACT NO. 64L82				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 3-02-16
D:\BR\Draws\Whiteside\64L82 Bridge Repairs	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jan-04-2017 07:17:06 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

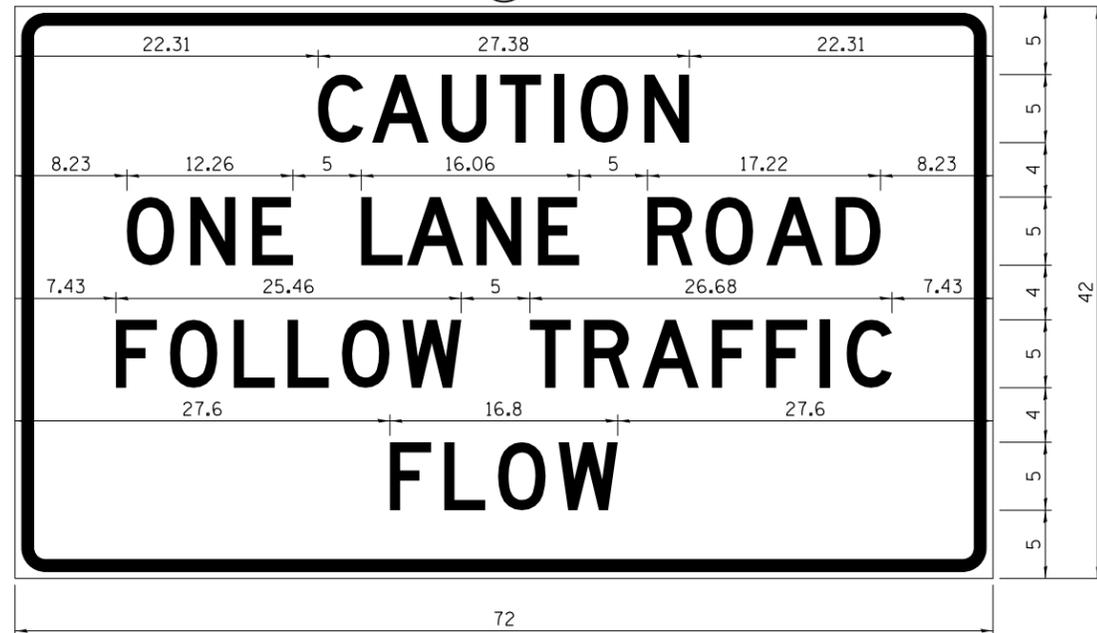
SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	27
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L82	

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 3-02-16
D:\BR\Draws\Whiteside\64L82 Bridge Repairs	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jan-04-2017 07:17:12 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

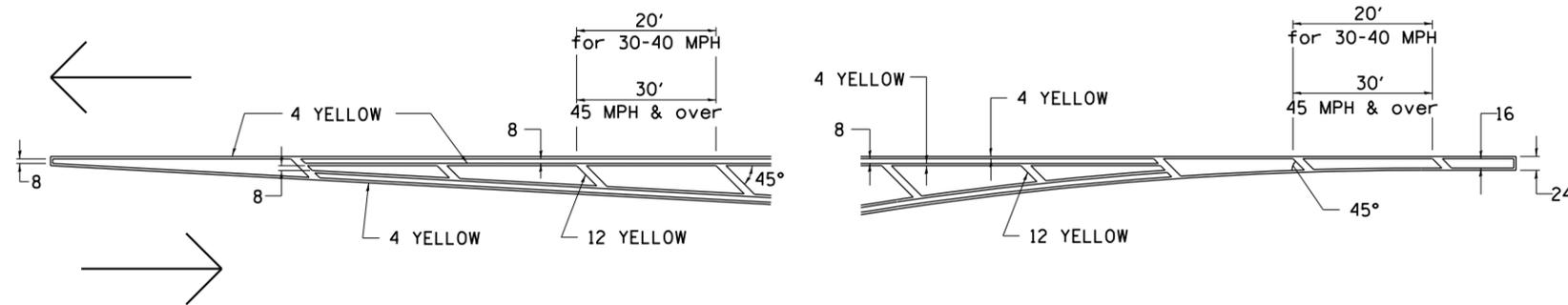
REGION 2 / DISTRICT 2 STANDARD

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

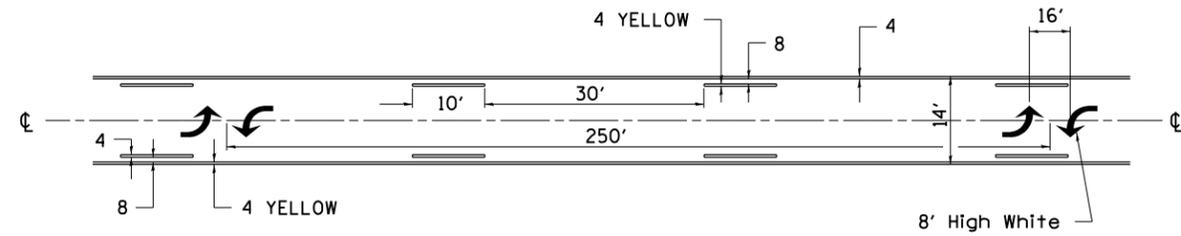
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	28
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L82	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

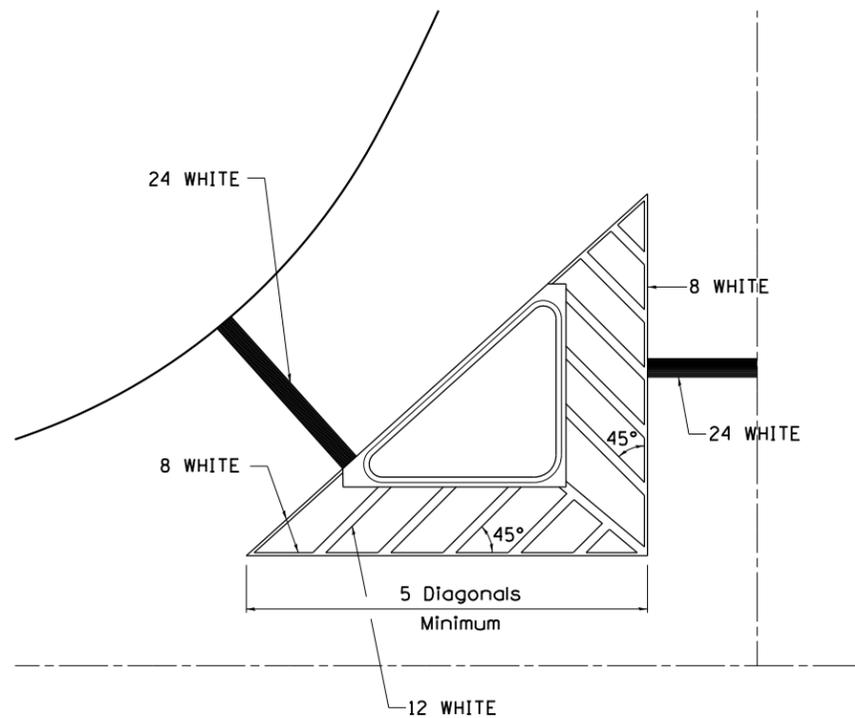


MEDIAN PAVEMENT MARKING



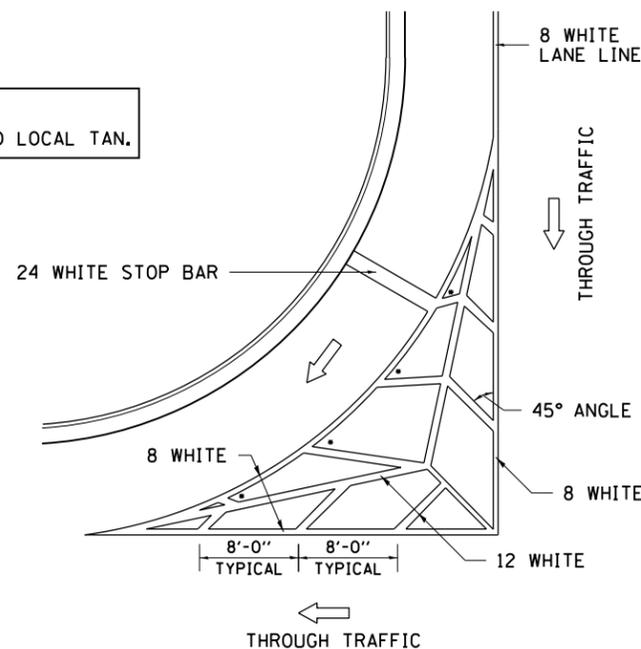
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



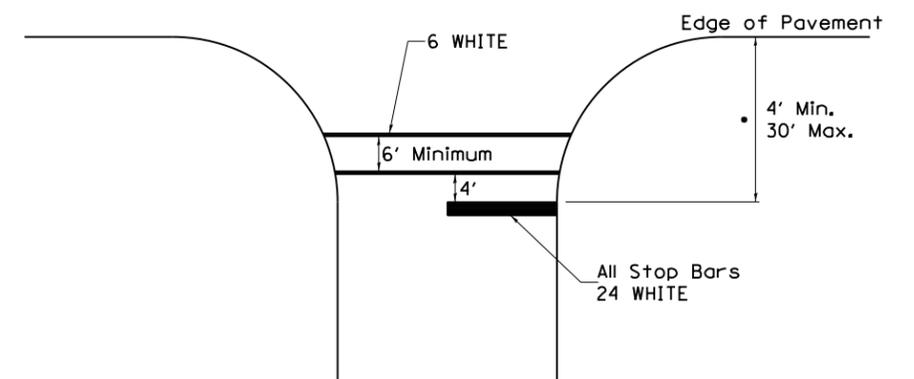
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

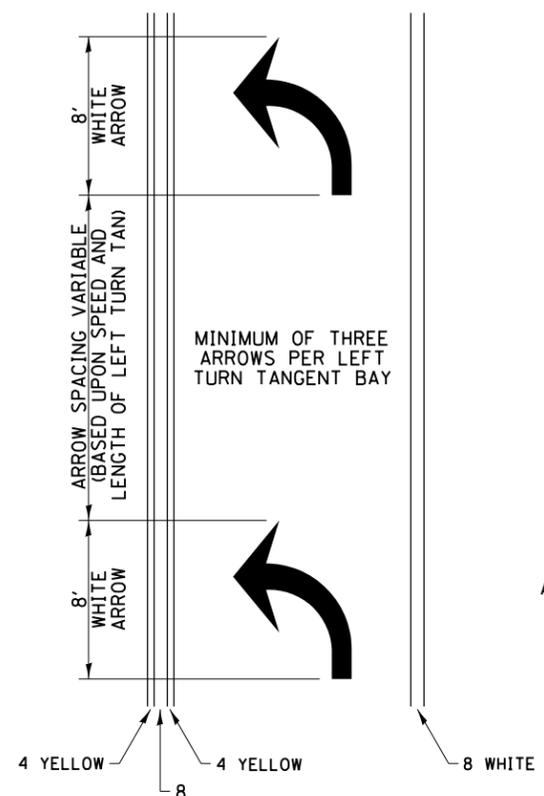


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Draws\Whiteside\64L82 Bridge Reports	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED - 3-05-12		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	88	D2 BRR 2017-2	WHITESIDE	40	29
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 64L82				
	PLOT DATE = Jan-04-2017 07:17:17 AM	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL PAVEMENT MARKINGS

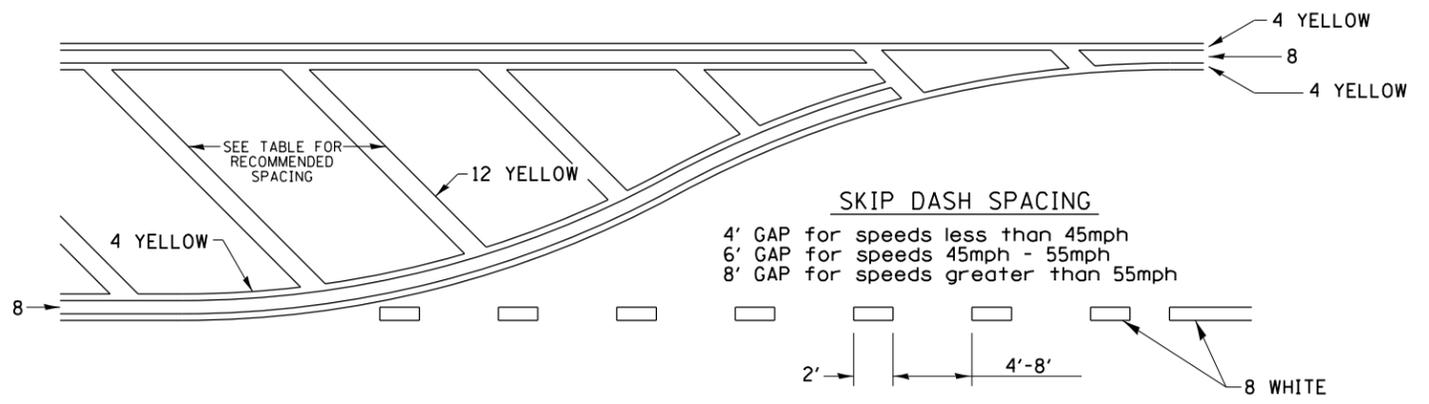
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

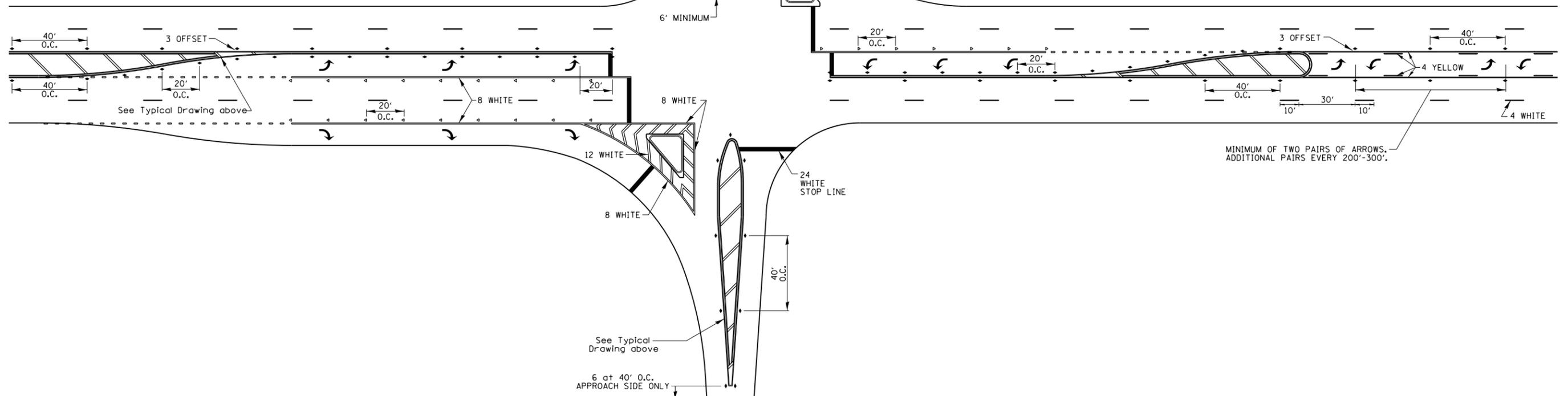
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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:\BRR\Drawings\Whiteside\64L82 Bridge Reports	SN 098-0075 & 098-0076\CADD\D2-sht-cover	DRAWN -	REVISED - 3-05-12
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	PLOT DATE = Jan-04-2017 07:17:22 AM	DATE -	REVISED -

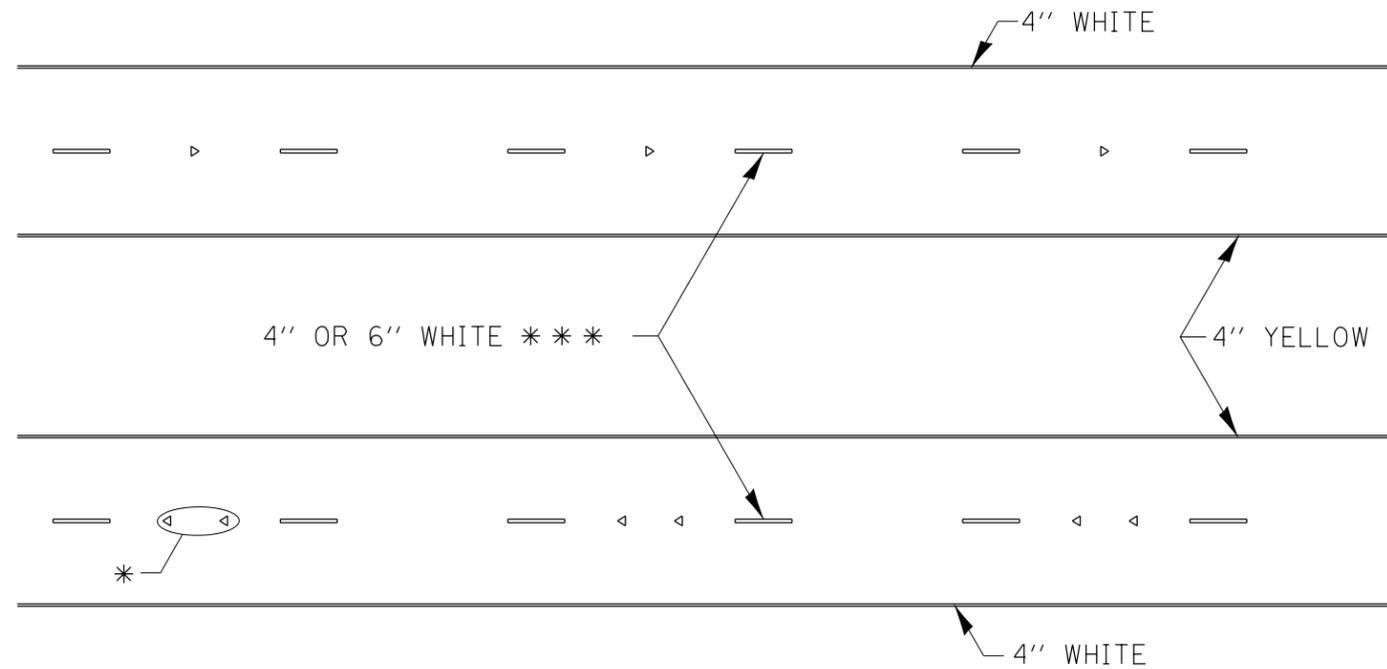
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

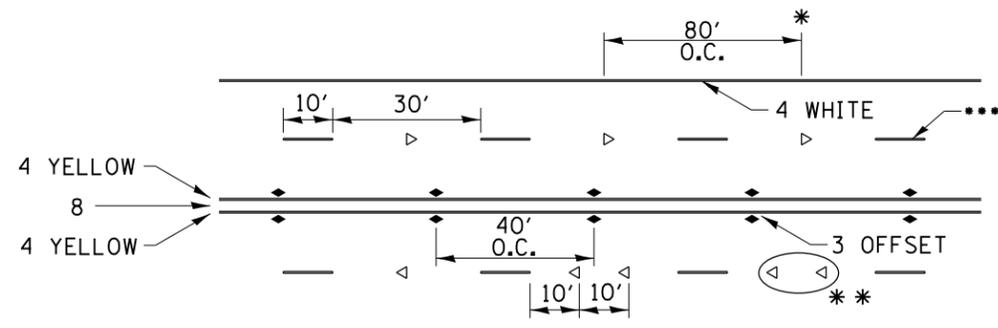
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	30
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L82	

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.

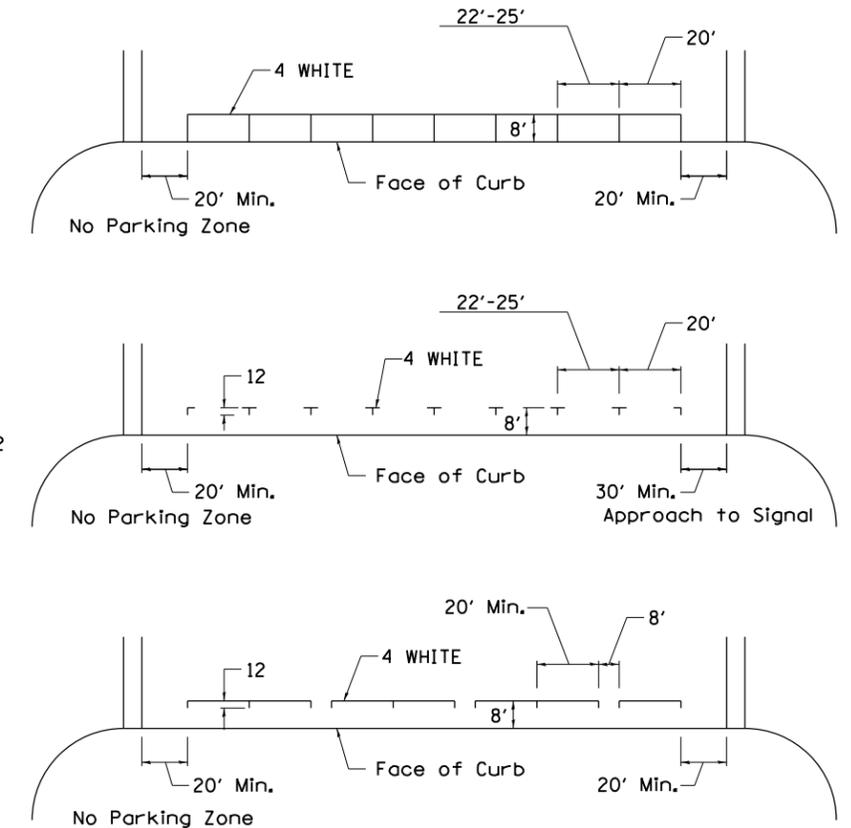
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

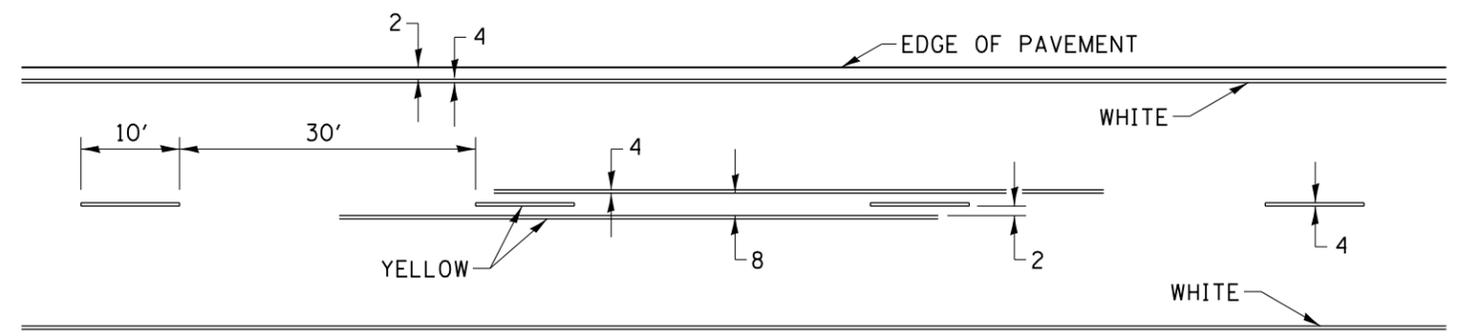
MULTI-LANE / UNDIVIDED & ONE WAY

(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

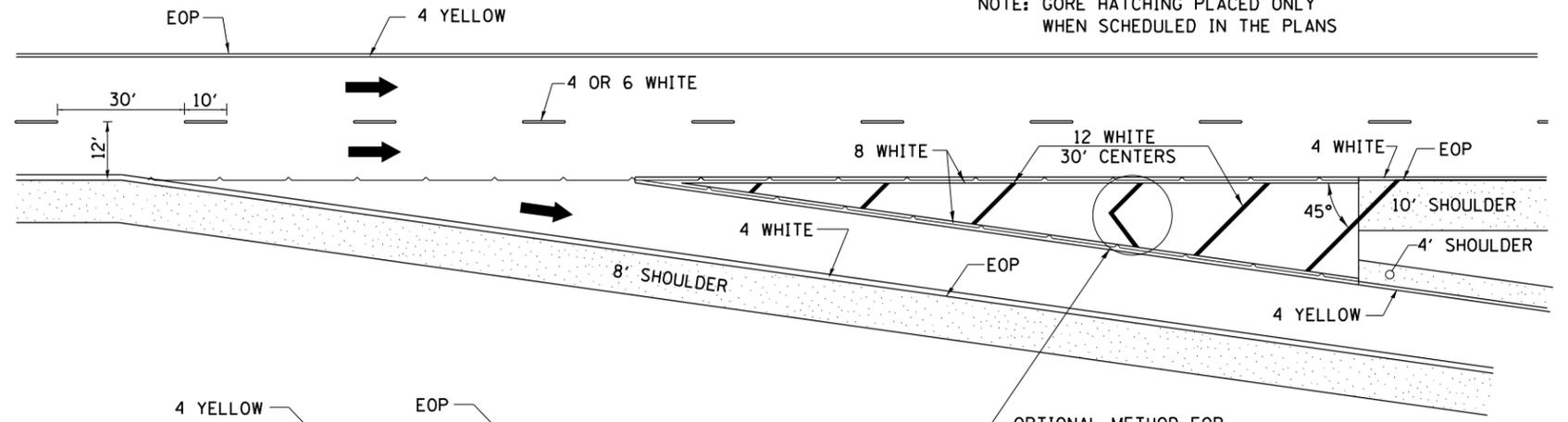
FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draw\Whiteside\64L82 Bridge Repairs	SN 098-0075 & 098-0076\CADD\02-sht-cover	DRAWN -	REVISED - 8-27-13				88	D2 BRR 2017-2	WHITESIDE	40	31
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 11-28-12		SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64L82		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		
	PLOT DATE = Jan-04-2017 07:17:27 AM	DATE -	REVISED -		TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1						

PAINING DETAILS

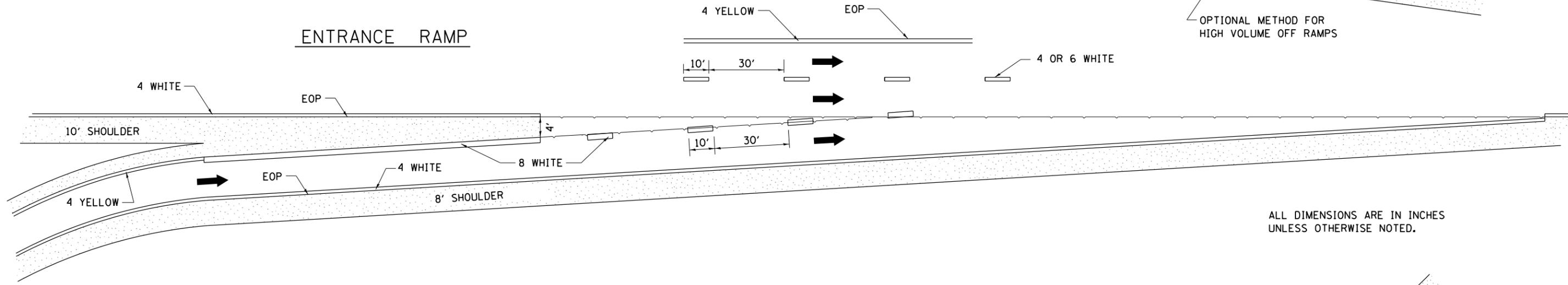
EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

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.

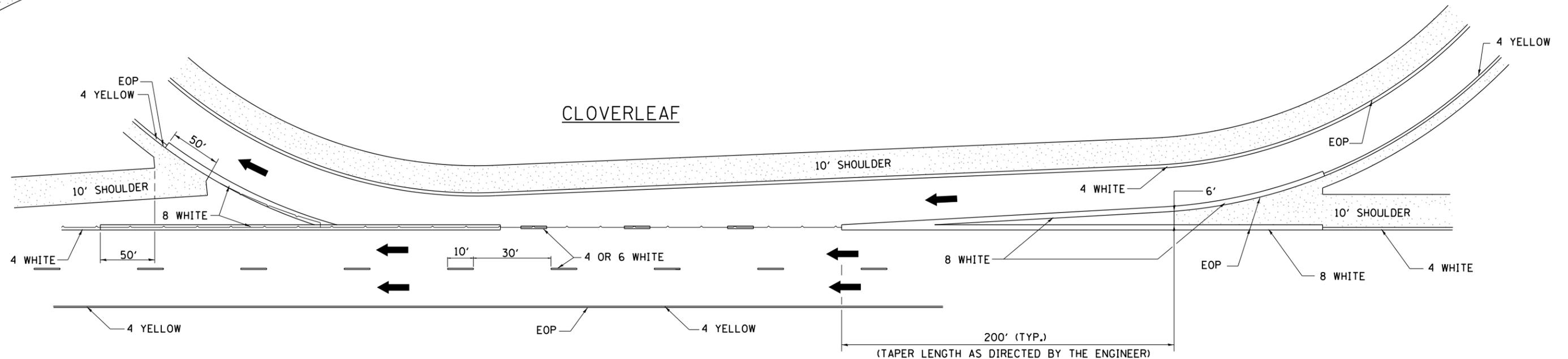


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 8-27-13
D:\BR\Drawings\Whiteside\64L82 Bridge Reports	SN 098-0075 & 098-0076\CADD\02-sht-cover	DRAWN -	REVISED - 10-18-11
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jan-04-2017 07:17:32 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

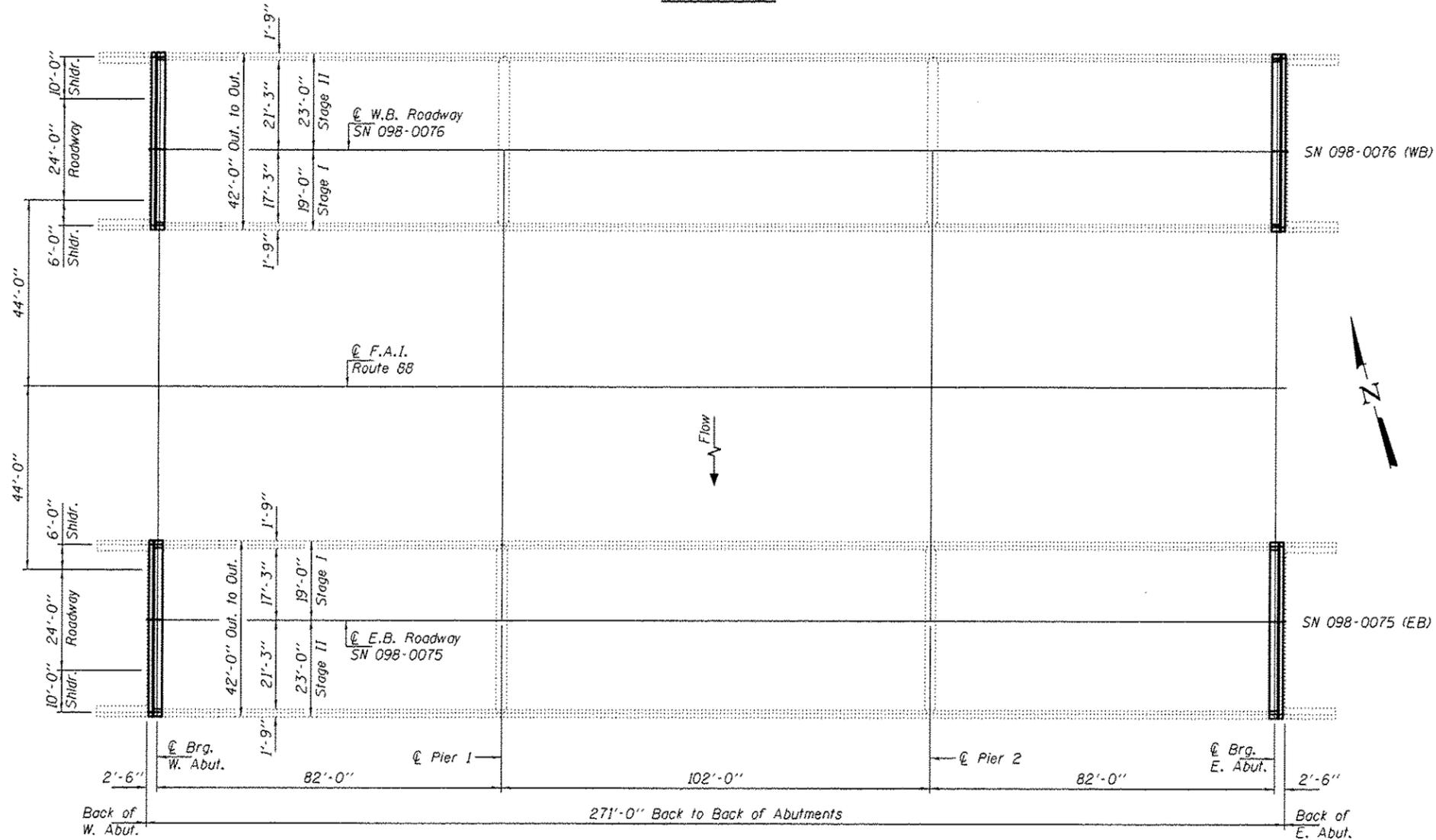
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	32
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L82	



ELEVATION

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.



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	21.0
Concrete Superstructure	Cu. Yd.	21.2
Reinforcement Bars, Epoxy Coated	Pound	4170
Bar Splicers	Each	48
Preformed Joint Strip Seal	Foot	162
* Structural Repair of Concrete ≤ 5 inches	Sq. Ft.	10
* Structural Repair of Concrete > 5 inches	Sq. Ft.	110
Temporary Shoring & Cribbing	Each	1
** Protective Coat	Sq. Yd.	30.4
* Deck Slab Repair (Partial)	Sq. Yd.	348
* Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	116
* Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	90

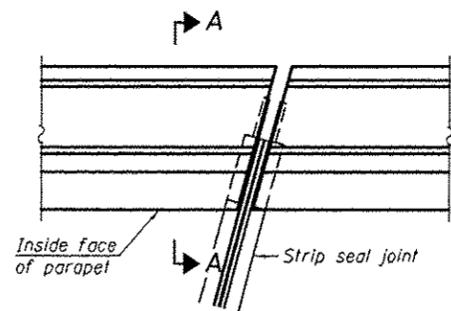
* Quantities are estimated. Actual locations and quantities to be determined by the Engineer in the field.

** New concrete areas only.

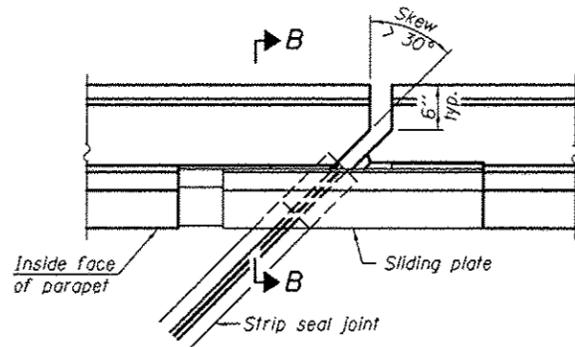


Expires: November 30, 2018

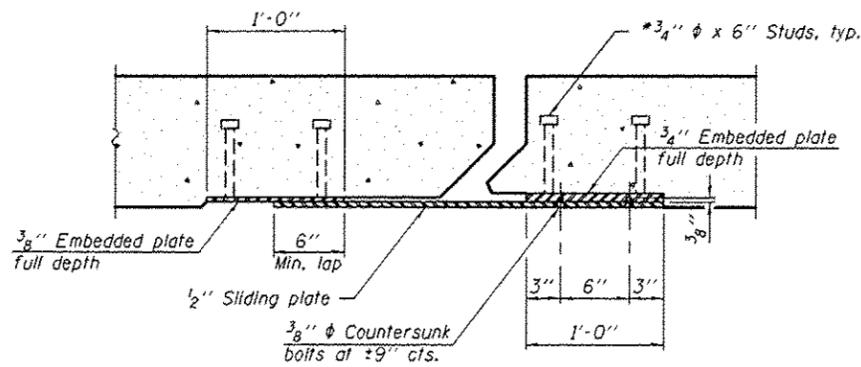
DESIGNED -	CHECKED -	DRAWN -	CHECKED -	PASSED -	DATE -	REVISOR -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION F.A.I. ROUTE 88 OVER ELKHORN CREEK SN 098-0075 (EB) & -0076 (WB)	F.A.I. RTE. -	SECTION -	COUNTY -	TOTAL SHEETS -	SHEET NO. -
		Kyle M. Staffon			JANUARY 18, 2017					88	02 BAR 2017-2	WHITESIDE	40	33
									SHEET NO. 1 OF 5 SHEETS		CONTRACT NO. 64L82			
									ILLINOIS FED. AID PROJECT					



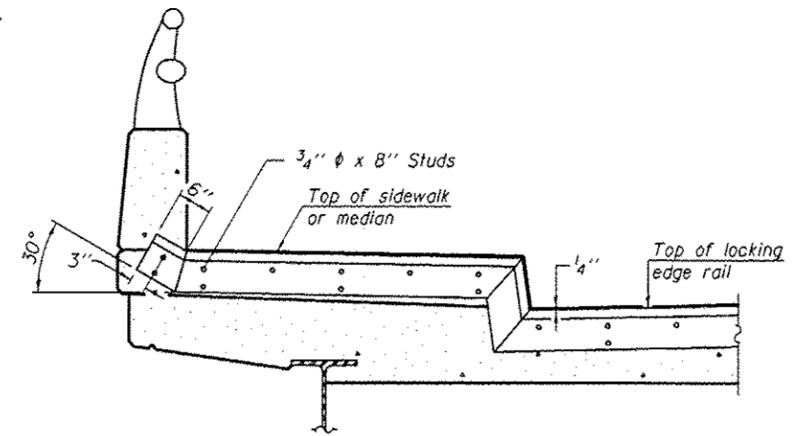
PLAN
(For skews $\leq 30^\circ$)



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

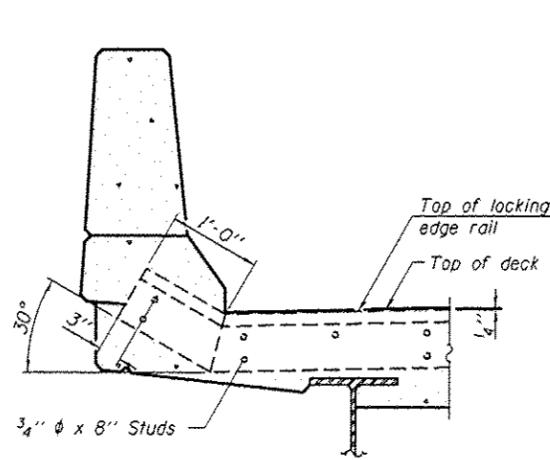


SECTION C-C

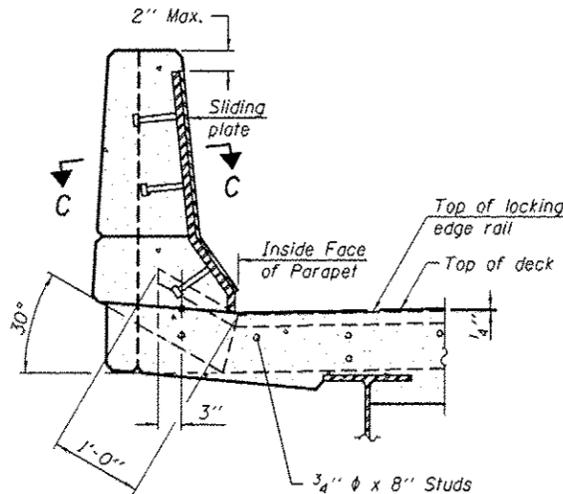


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

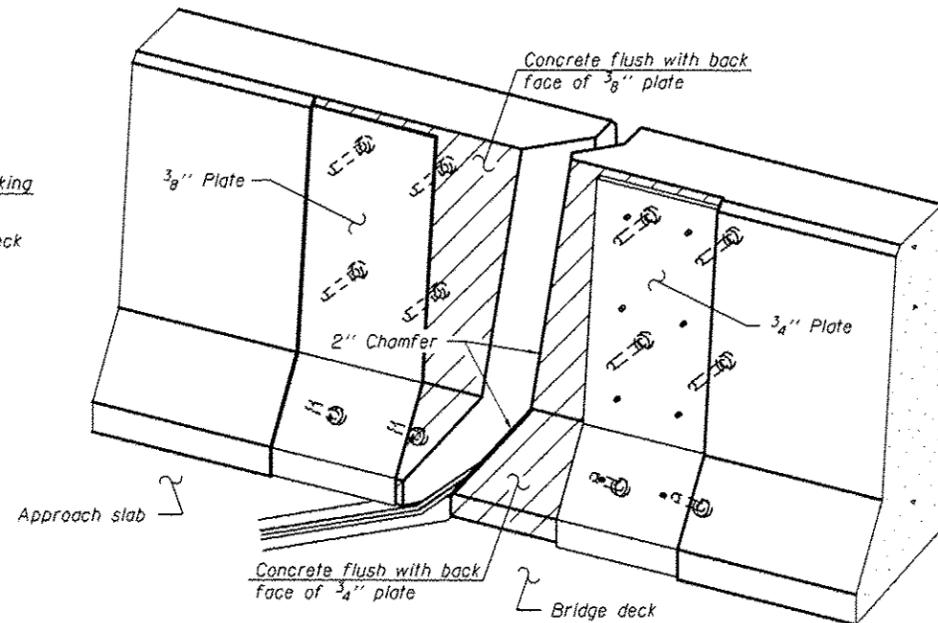
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



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.

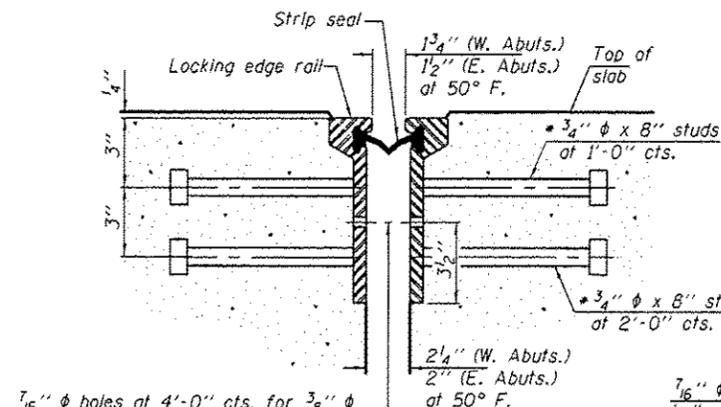
The manufacturer's recommended installation methods shall be followed.

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.

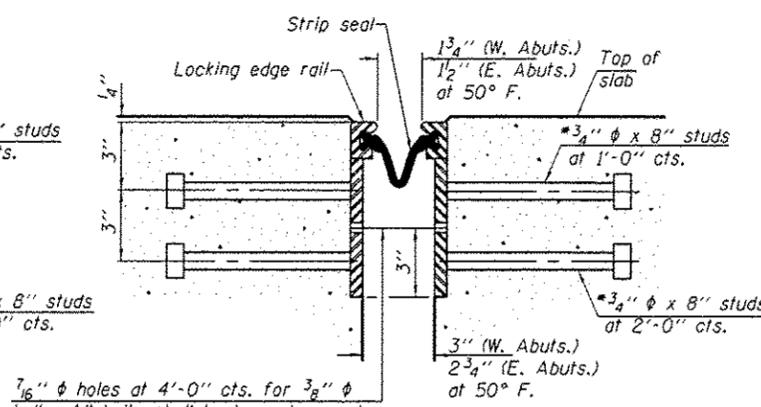
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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

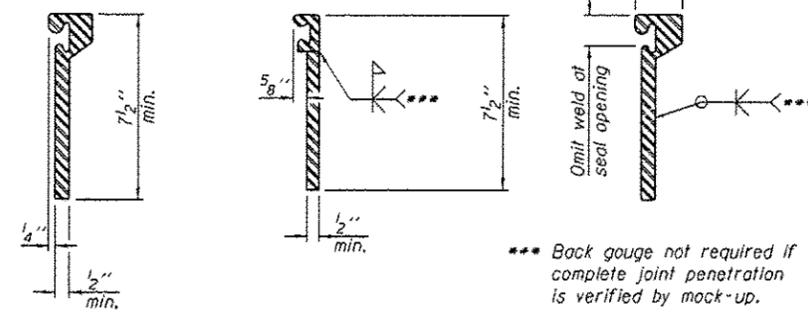


SECTION THRU WELDED RAIL JOINT

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.

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



ROLLED EXTRUDED RAIL WELDED RAIL

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

LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	162

EJ-SSJ

11-22-2016

DESIGNED - JGY
CHECKED - CCC
DRAWN - Kyle M. Stoffen
CHECKED - JGY CCC

PASSED

Carl Perry
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 18, 2017

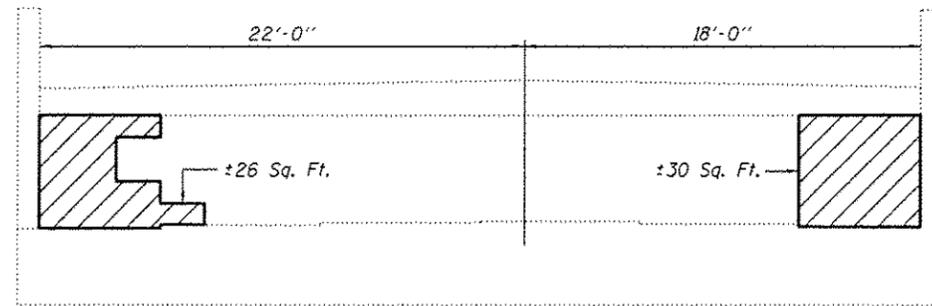
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
SN 098-0075 (EB) & -0076 (WB)

SHEET NO. 3 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	02 BRR 2017-2	WHITESIDE	40	35
CONTRACT NO. 64L82				
ILLINOIS FED. AID PROJECT				

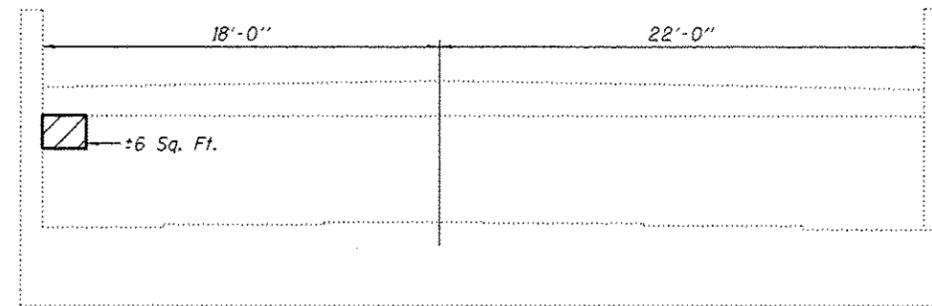


ELEVATION VIEW
(Looking West)

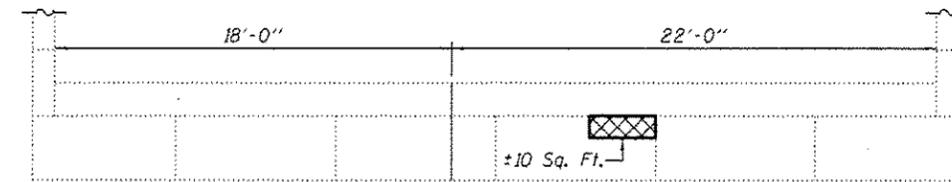


PLAN VIEW

WEST ABUTMENT - SN 098-0075 (E.B.)

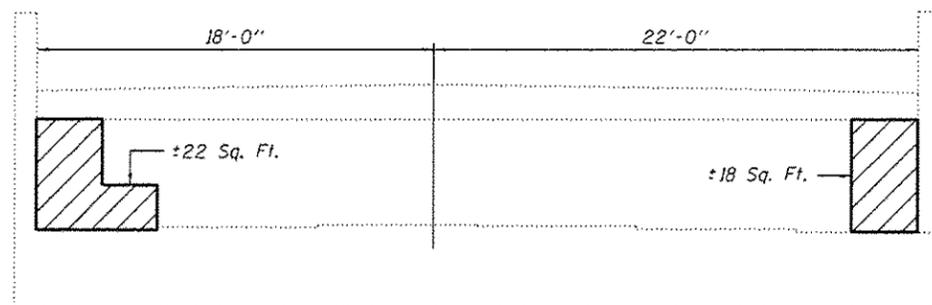


ELEVATION VIEW
(Looking East)

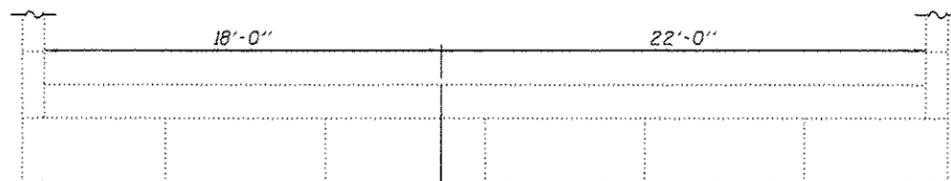


PLAN VIEW

EAST ABUTMENT - SN 098-0075 (E.B.)

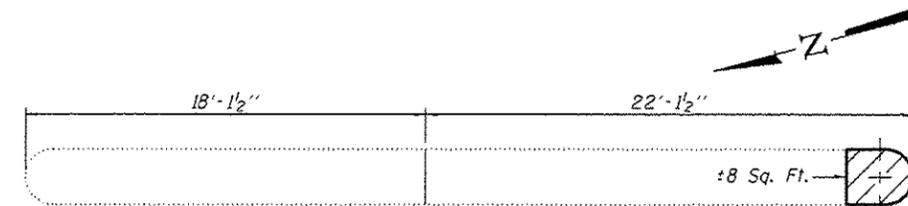


ELEVATION VIEW
(Looking West)



PLAN VIEW

WEST ABUTMENT - SN 098-0076 (W.B.)



PLAN VIEW

Temporary Shoring & Cribbing Required.

PIER 1 - SN 098-0076 (W.B.)

AT PIER 1

REACTION TABLE AT TEMPORARY SHORING			
Q	(k)	141.0	
L	(k)	62.3	
Imp.	(k)	14.3	
Total	(k)	217.6	



Structural Repair of Concrete ≤ 5 inches



Structural Repair of Concrete > 5 inches

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Shoring & Cribbing	Each	1
Structural Repair of Concrete ≤ 5 inches	Sq. Ft.	10
Structural Repair of Concrete > 5 inches	Sq. Ft.	110

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

DESIGNED - JCY
CHECKED - CCC
DRAWN - Kyle M. Steffen
CHECKED - JCY CCC

PASSED

[Signature]
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 18, 2017

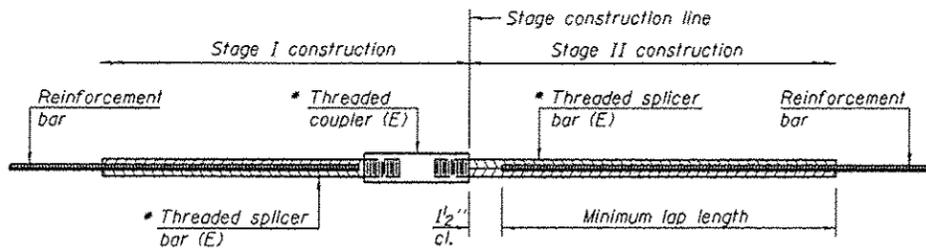
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS
SN 098-0075 (EB) & -0076 (WB)

SHEET NO. 4 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRR 2017-2	WHITESIDE	40	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L82	

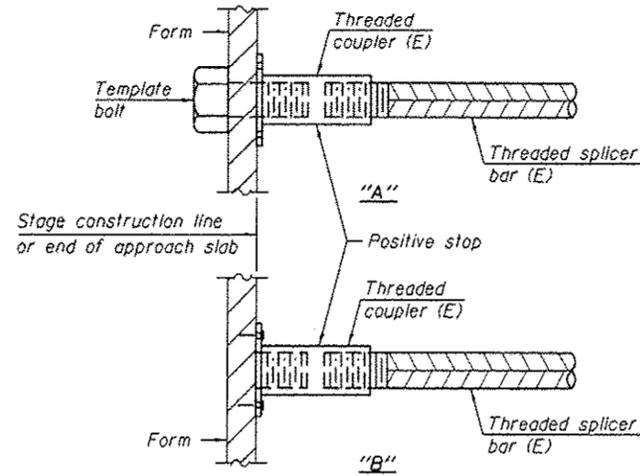


STANDARD BAR SPLICER ASSEMBLY

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	Minimum lap length
Hatchblock	#6	16	4'-0"
Deck	#6	32	3'-7"

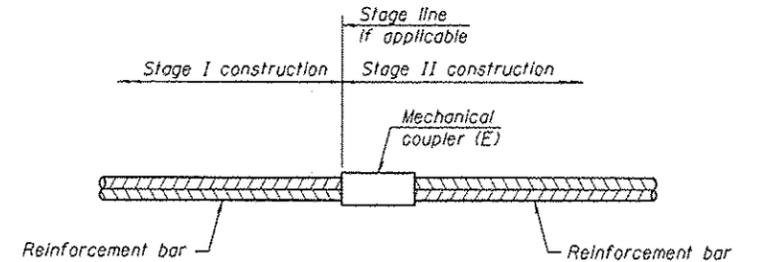


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

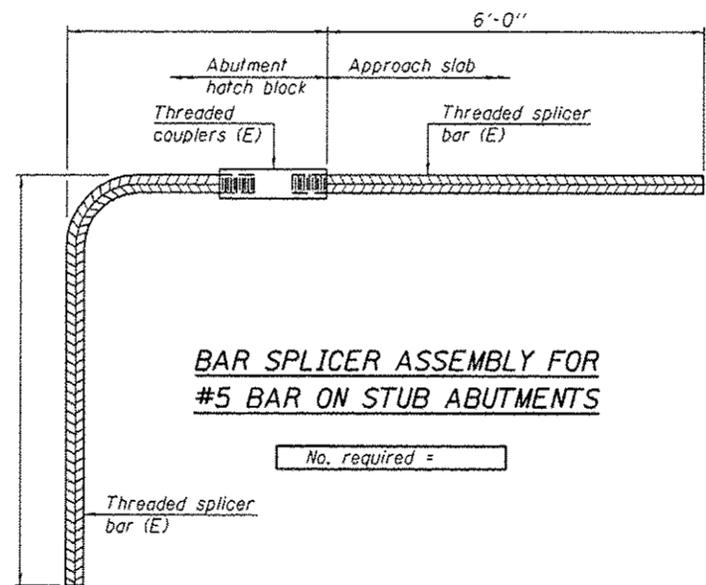
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

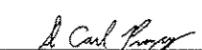
NOTES

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 11-22-2016

DESIGNED - JGY
 CHECKED - CCC
 DRAWN - Kyle M. Steffen
 CHECKED - JGY CCC

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 18, 2017
 REVISED
 REVISED

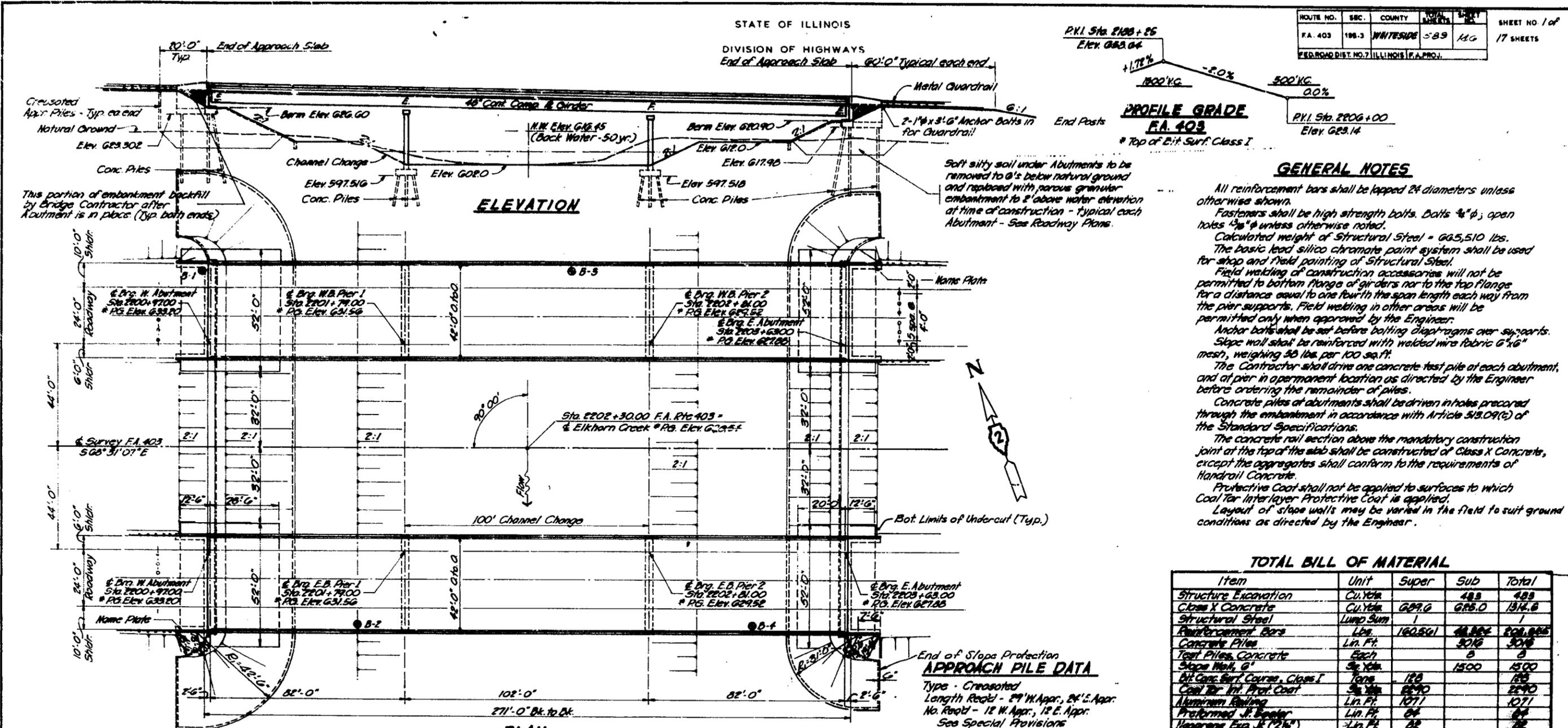
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 098-0075 (EB) & -0076 (WB)
 SHEET NO. 5 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	02 BR 2017-2	WHITESIDE	40	37

CONTRACT NO. 64L82
 ILLINOIS FED. AID PROJECT

098-0075 & 098-0076



ROUTE NO.	SEC.	COUNTY	POST MILE	POST MILE	SHEET NO. 1 of 17 SHEETS
FA. 403	195-3	WHITESIDE	5.89	11.6	
PER ROAD DIST. NO. 7 ILLINOIS (F.A. PROJ.)					

PROFILE GRADE
FA. 403
 * Top of Bit Surf. Class I

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 Fasteners shall be high strength bolts. Bolts 3/4" φ, open holes 1/2" φ unless otherwise noted.
 Calculated weight of Structural Steel = 665,510 lbs.
 The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.
 Field welding of construction accessories will not be permitted to bottom flange of girders nor to the top flange for a distance equal to one fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 Anchor bolts shall be set before bolting diaphragms over supports.
 Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 30 lbs. per 100 sq. ft.
 The Contractor shall drive one concrete test pile at each abutment, and at pier in permanent location as directed by the Engineer before ordering the remainder of piles.
 Concrete piles of abutments shall be driven in holes precored through the embankment in accordance with Article 513.09(e) of the Standard Specifications.
 The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
 Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.
 Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yds.		485	485
Class X Concrete	Cu. Yds.	609.0	685.0	1314.0
Structural Steel	Lump Sum	1		1
Reinforcement Bars	Lbs.	160,861	44,864	205,725
Concrete Piles	Lin. Ft.		3016	3016
Test Piles, Concrete	Each		2	2
Slope Mat, 6"	Sq. Yds.		1500	1500
Bit. Conc. Surf. Course, Class I	Tons	120		120
Coal Tar Int. Prot. Coat	Sq. Yds.	2290		2290
Aluminum Siding	Lin. Ft.	1071		1071
Preformed J. Board	Lin. Ft.	84		84
Wearings Exp. II (2 1/2")	7-Lin. Ft.	22		22
Steel Shear Connectors	Each	2052		2052
Protective Coat	Sq. Yds.	445		445
Crested Piles P21 to P30	Lin. Ft.		630	630
Name Plate	Each		2	2

APPROACH PILE DATA

Type - Crested
 Length Road - 29' W. Appr., 24' E. Appr.
 No. Road - 12 W. Appr., 12 E. Appr.
 See Special Provisions

DESIGN STRESSES

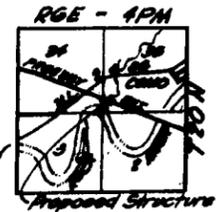
R_c = 1800 psi Deck Slab
 R_c = 1400 psi Curbs, Parapet, & Substructure
 R_c = 75 psi Footings
 n = 10
 R_s = 20,000 psi Reinf. & Struct.
 Design Specifications - 1969 MASHO (as applicable)
 Allow 25 #/sq ft for Future Wearing Surface
 Allowable Deflection = span/1800 (Composite)

LOADING HS 20-44

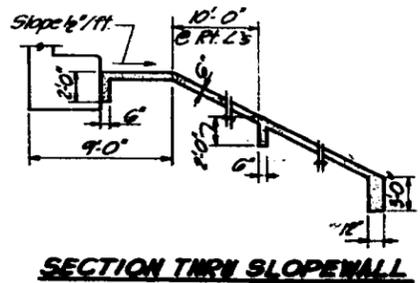
WATERWAY INFORMATION

Drainage Area = 252 sq. miles
 Q_{50} = 10,082 c.f.s.
 Reg. Opening (50 year flood) = 2100 S.F.
 Proposed Opening = 2100 S.F.
 Crested Head = 0.52'

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY



LOCATION SKETCH



SECTION THRU SLOPE WALL

STA. 2202 + 30.00
 BUILT 1972 BY
 STATE OF ILLINOIS
 FA. RTE. 403 - SEC. 195-3B2
 LOADING HS-20

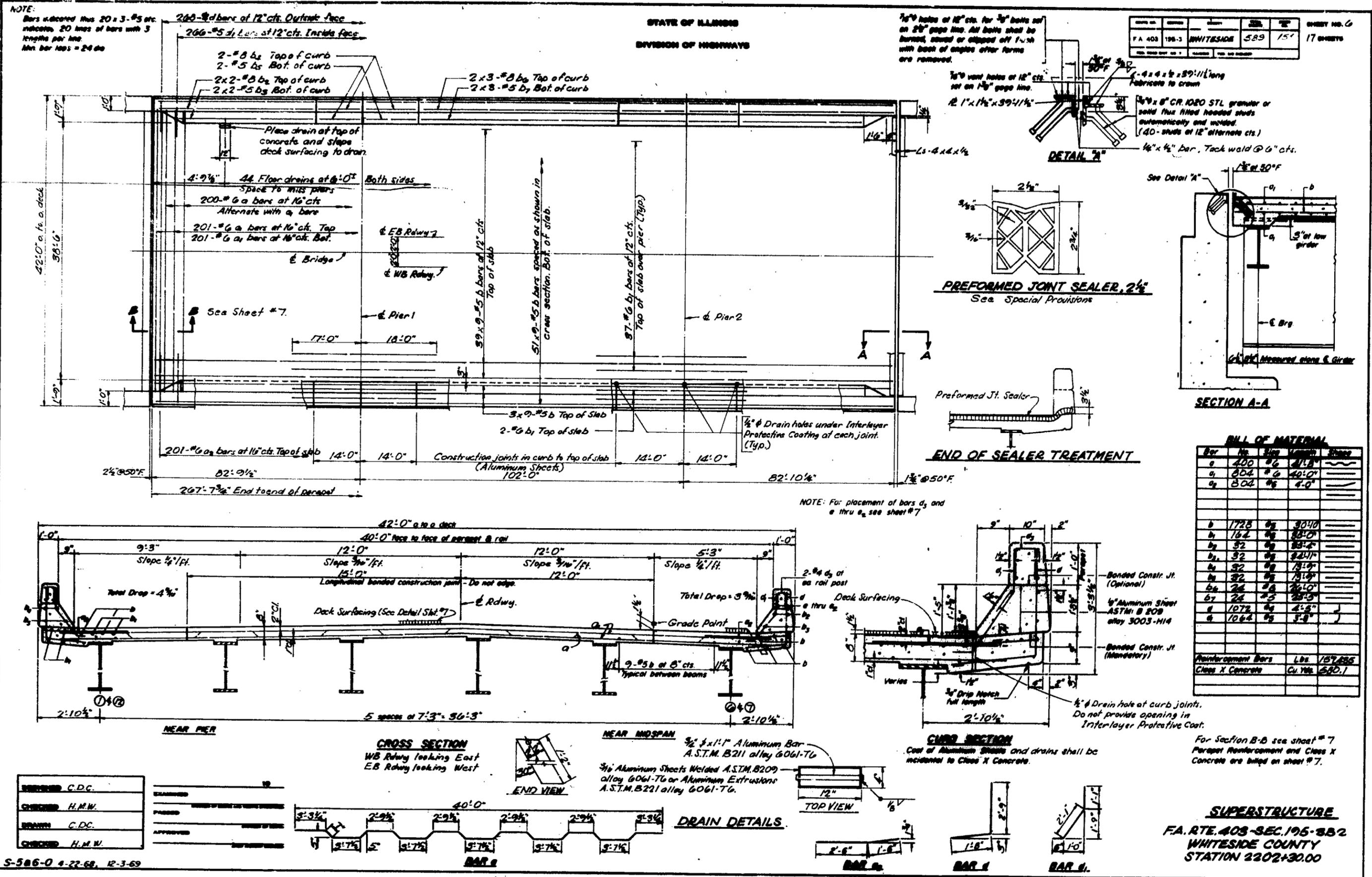
NAME PLATE
 See Std. 2113

DESIGNED	H.M.W.
CHECKED	C.D.C.
DRAWN	L.R.
CHECKED	H.M.W.

EXAMINED	
PASSED	
APPROVED	

GENERAL PLAN & ELEVATION

FA. 403 OVER ELKHORN CREEK
STA. 2202 + 30.00



PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
F.A. 403 195-3	WHITESIDE	589	15	17 SHEETS

BILL OF MATERIAL

Bar	No.	Size	Length	Notes
a	400	#6	41'-6"	
a ₁	804	#6	40'-0"	
a ₂	804	#6	4'-0"	
b	1728	#4	30'-10"	
b ₁	164	#4	33'-0"	
b ₂	32	#4	33'-2"	
b ₃	32	#4	32'-11"	
b ₄	32	#4	31'-9"	
b ₅	32	#4	31'-9"	
b ₆	24	#4	26'-10"	
b ₇	24	#4	25'-3"	
c	1072	#4	4'-5"	
d	1064	#5	3'-8"	
Reinforcement Bars		Lbs.	157,636	
Class X Concrete		Cu Yds.	540.1	

DESIGNED C.D.C.	EXAMINED
CHECKED H.M.W.	PREPARED
DRAWN C.D.C.	APPROVED
CHECKED H.M.W.	

