

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
	(511&525)B-R-1	COOK	NO.
			21
		CONTRACT NO. 62G50	1

D-91-310-18



LOCATION OF SECTION INDICATED THIS: [Symbol]

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED
WITHIN UNINCORPORATED
PALOS TOWNSHIP

PROPOSED HIGHWAY PLANS

FAP ROUTE 330: US 45 (LAGRANGE ROAD)
OVER CAL SAG CHANNEL
SECTION: (511&525)B-R-1
PROJECT: NHPP-DIFF(884)
BRIDGE REPAIR
COOK COUNTY

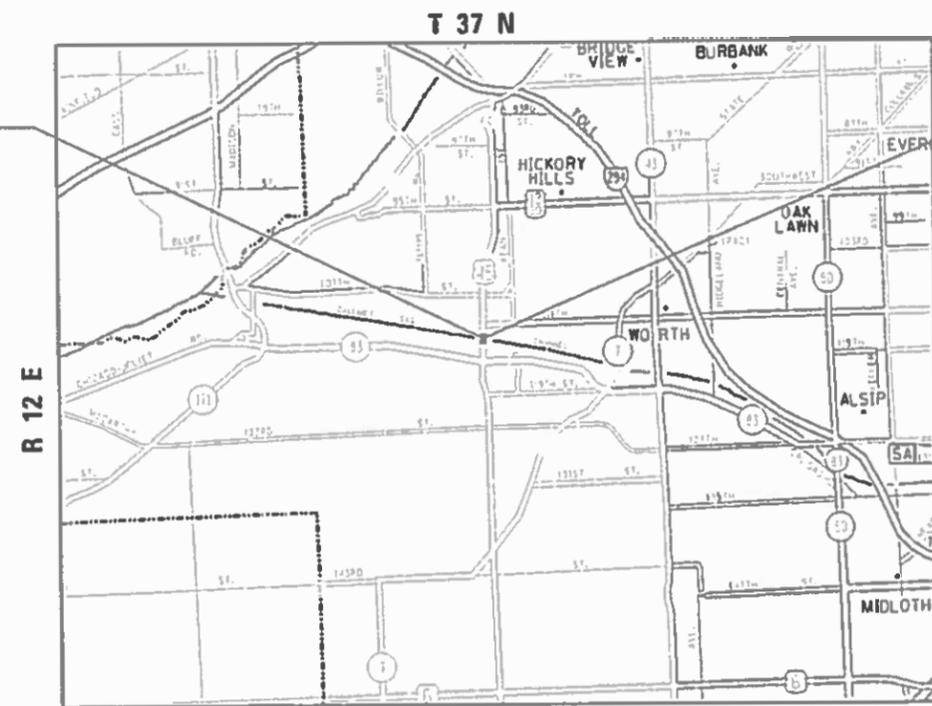
C-91-227-18

TRAFFIC DATA

US ROUTE 45:
FUNCTIONAL CLASSIFICATION:
OTHER ARTERIAL
ADT (2017) = 34,000
POSTED SPEED LIMIT = 45 MPH

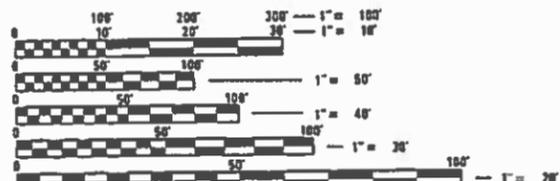
BRIDGE REPAIR
SN: 016-0343
SB US 45
BEGIN PROJECT:
STA. 25+80
END PROJECT:
STA. 49+00

BRIDGE REPAIR
SN: 016-0344
NB US 45
BEGIN PROJECT:
STA. 12+97
END PROJECT:
STA. 32+25



PALOS TOWNSHIP

GROSS LENGTH = 3625 FT. = 0.70 MILE
NET LENGTH = 1054 FT. = 0.20 MILE



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: J. ALAIN MIDY, PE
PROJECT MANAGER: FAWAD AQUEEL, PE, PTOE

CONTRACT NO. 62G50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED ~~December 6~~ 20 18

Anthony A. Quigley REGIONAL ENGINEER
Feb 19 2019

Paul P. Chif ENGINEER OF DESIGN AND ENVIRONMENT
Feb 19 2019
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 20 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 21 ARTERIAL ROAD INFORMATION SIGN (TC-22)

STATE STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701411-09 LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS \geq 45 MPH
- 701422-10 LANE CLOSURE, MULTILANE, FOR SPEED $S \geq$ 45 MPH TO 55 MPH
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-08 TRAFFIC CONTROL DEVICES
- 781001-04 RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES:

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT Kalpana.Kannan-Hosadurga@Illinois.gov A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
9. THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT Patrice.Harris@Illinois.gov A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
10. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
11. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE (BRIDGE INSPECTORS).
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
16. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
17. THE CONTRACTOR SHALL OBTAIN COAST GUARD APPROVAL FOR ANY WORK THAT MAY INTERFERE WITH NAVIGATIONAL OPERATIONS OF THE NAVIGABLE WATERS. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL.

BRIDGE ADMINISTRATOR
 US COAST GUARD
 NINTH COAST GUARD DISTRICT
 1240 E. NINTH ST
 CLEVELAND, OH 44199-2060

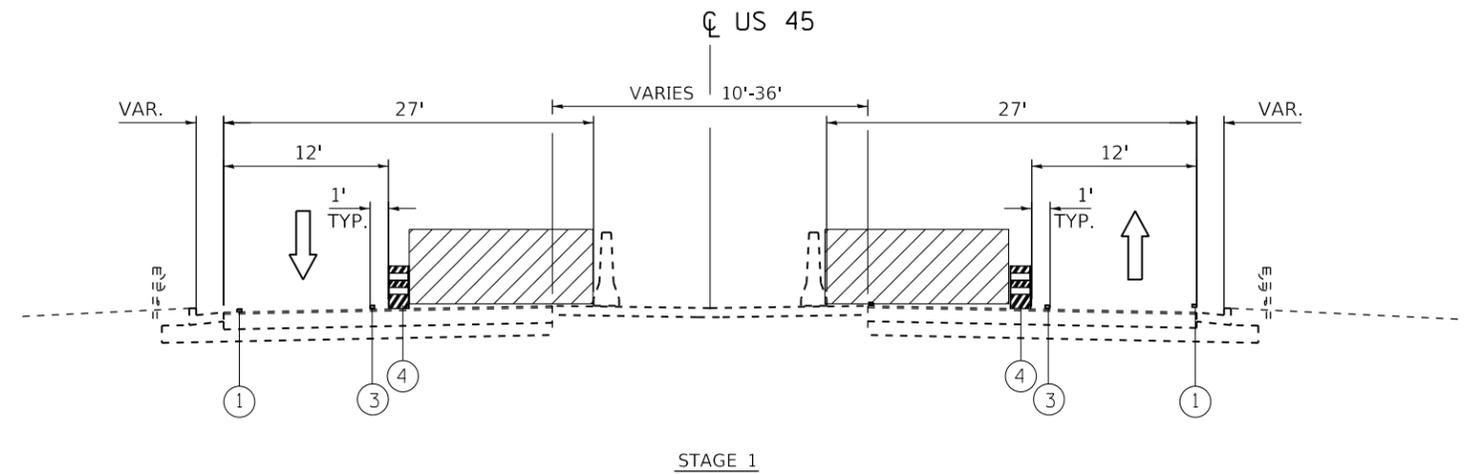
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REV. - MS

USER/NAME = kaimp PLOT SCALE = 100.0000' / in. PLOT DATE = 1/8/2019	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS AND STATE STANDARDS U.S. ROUTE 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			330	(511 & 525) B-R-1	COOK	21	2
	CHECKED -	REVISED -			CONTRACT NO.		62G50		
	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
									ILLINOIS FED. AID PROJECT

GENERAL NOTES:

1. THE CONTRACTOR SHALL REMOVE AND SAFELY STORE (FREE FROM THEFT OR DAMAGE) OR COVER ALL CONFLICTING EXISTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. ALL SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION.
2. THE FOLLOWING APPLY TO CONSTRUCTION SIGNS:
 - A) THE CONTRACTOR SHALL FURNISH ALL SIGNS.
 - B) THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REPLACE ANY SIGNS THAT ARE SUPPLIED BY OTHERS AND DAMAGED BY THE CONTRACTOR'S WORK FORCE OR SUBCONTRACTORS DURING RELOCATION OR CONSTRUCTION OPERATIONS.
 - C) ALL SIGNS AND ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 2.
 - D) ALL SIGNS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL) PAY ITEM, EXCEPT FOR TEMPORARY INFORMATIONAL SIGNING AS NOTED ON THE PLANS.
3. ALL TEMPORARY PAVEMENT MARKINGS DURING STAGED CONSTRUCTION SHALL BE PAVEMENT MARKING TAPE, TYPE IV OF THE WIDTH AND COLOR SPECIFIED ON THE PLAN SHEETS
4. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION FOR THE DURATION OF THE CONTRACT.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL ENTRANCES FOR THE ENTIRE DURATION OF THE PROJECT UNLESS OTHERWISE NOTED ON THE PLANS.
6. SIDE ROAD, INTERSECTIONS, AND DRIVEWAY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE TYPICAL ENTRANCE SIGNING DETAIL, DISTRICT DETAILS TC-10 AND TC-26, AND AS SHOWN ON THE PLANS



SUGGESTED MAINTENANCE OF TRAFFIC STAGES:

STAGE 1:

CONSTRUCTION:

- BEAM REPAIR, PARAPET SEALING, JOINT REPAIR AND DECK POLYMER OVERLAY ON WEST SIDE OF WEST BRIDGE AND EAST SIDE OF EAST BRIDGE.

TRAFFIC:

- MAINTAIN ONE LANE EACH FOR EASTBOUND AND WESTBOUND TRAFFIC AS SHOWN ON EAST AND WEST BRIDGE AS SHOWN ON PLANS

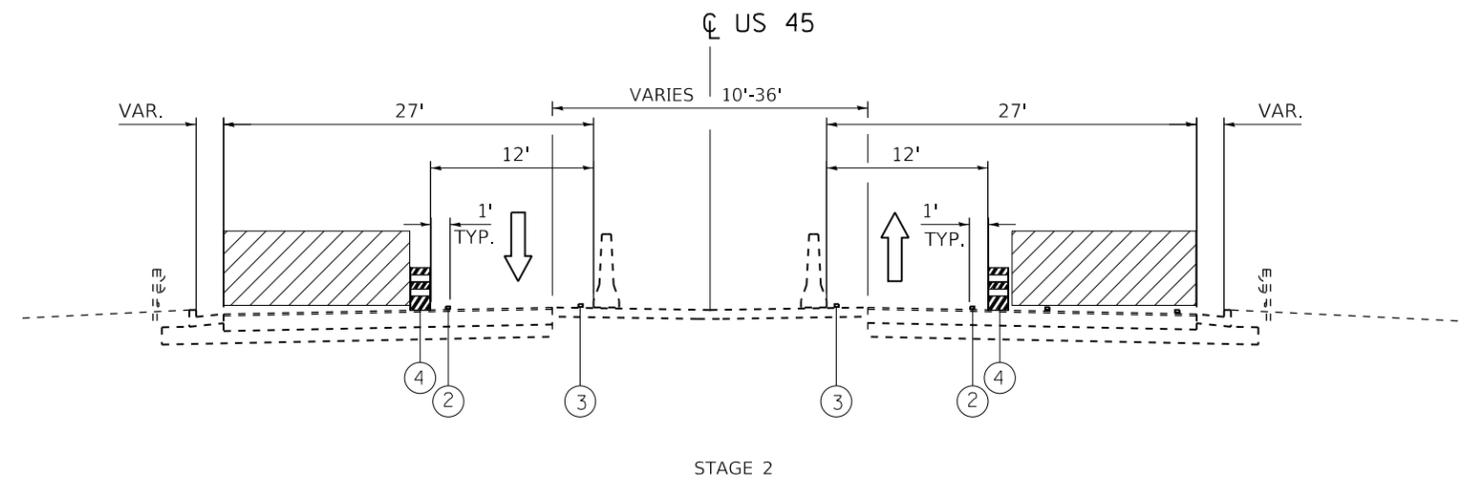
STAGE 2:

CONSTRUCTION:

- BEAM REPAIR, PARAPET SEALING, JOINT REPAIR AND DECK POLYMER OVERLAY ON EAST SIDE OF WEST BRIDGE AND WEST SIDE OF EAST BRIDGE.

TRAFFIC:

- MAINTAIN ONE LANE EACH FOR EASTBOUND AND WESTBOUND TRAFFIC AS SHOWN ON EAST AND WEST BRIDGE AS SHOWN ON PLANS



LEGEND

- ① EXISTING PAVEMENT MARKING TO REMAIN
- ② PAVEMENT MARKING 4" SOLID WHITE EDGE LINE
- ③ PAVEMENT MARKING 4" SOLID YELLOW EDGE LINE
- ④ DRUMS OR TYPE II BARRICADES
- ▨ WORK ZONE

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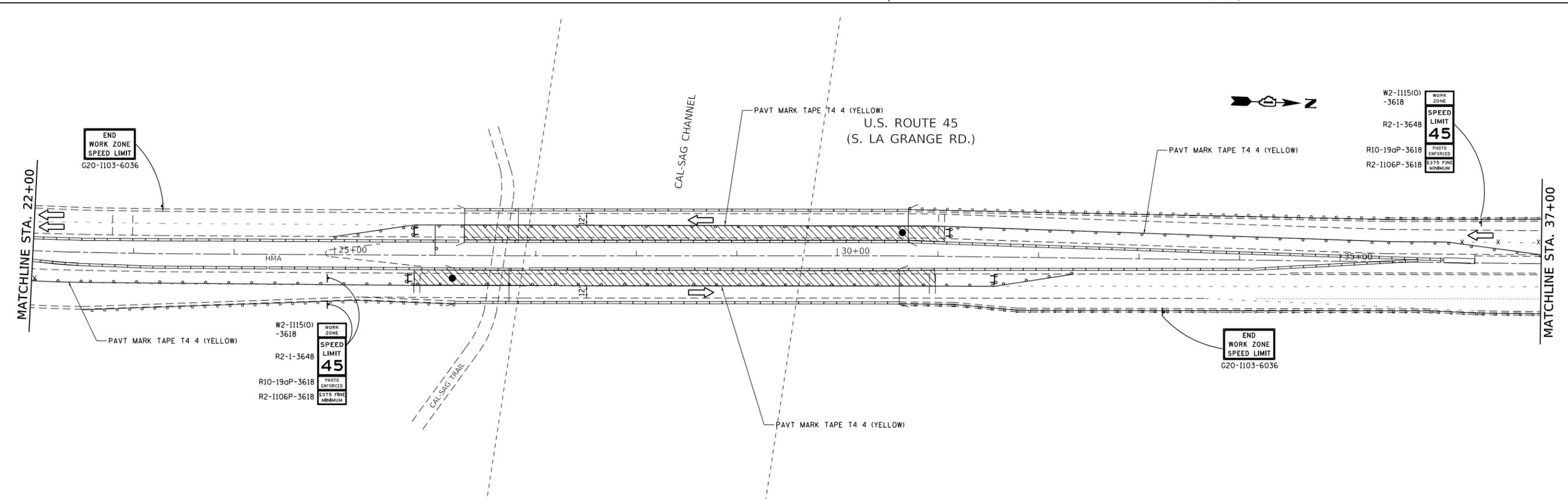
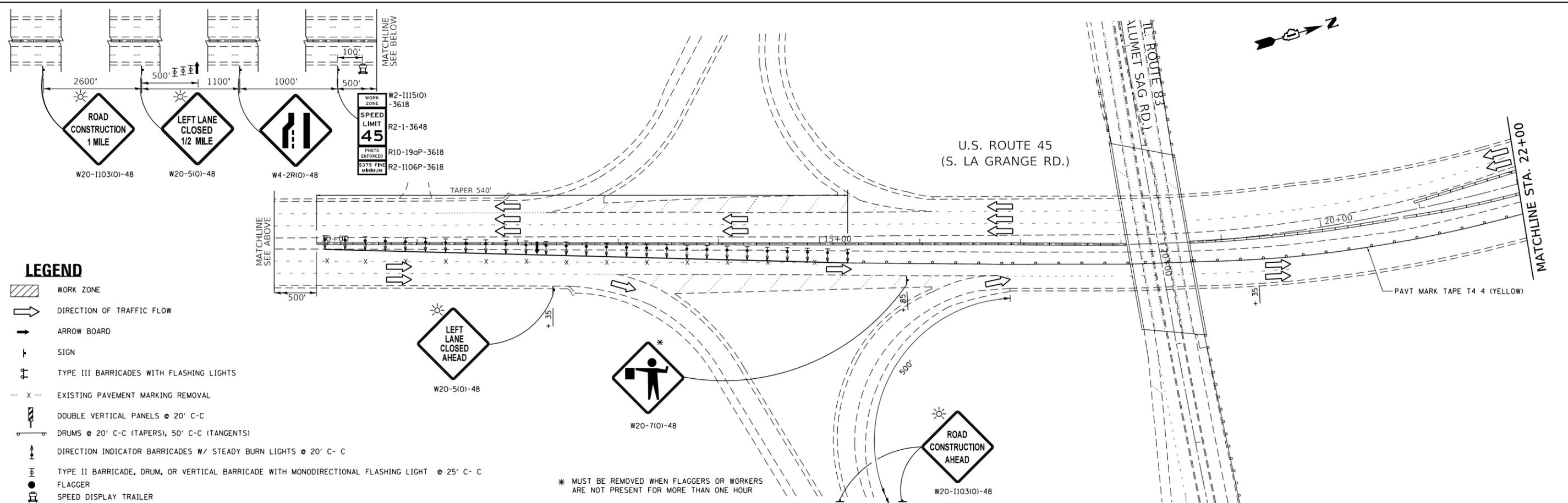
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
US 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(511 & 525) B-R-1	COOK	21	4
CONTRACT NO. 62G50				
		ILLINOIS	FED. AID PROJECT	



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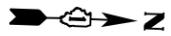
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

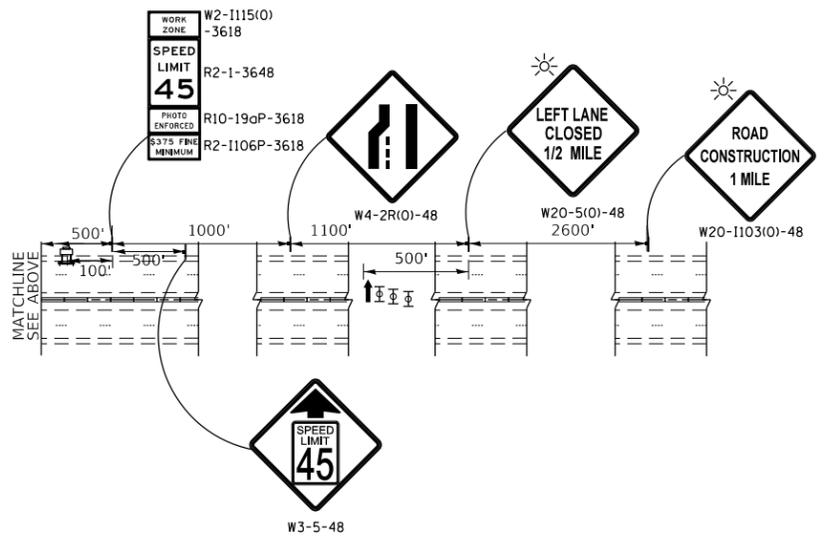
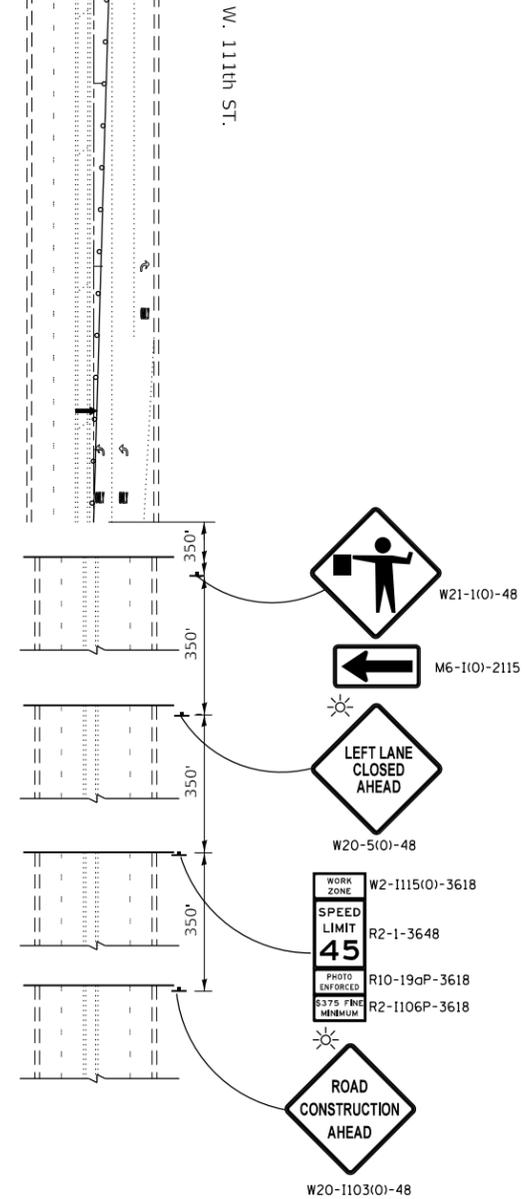
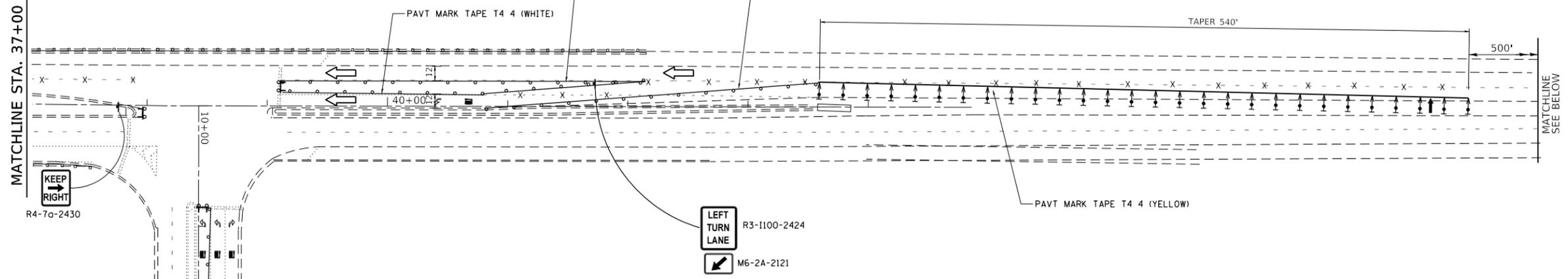
MAINTENANCE OF TRAFFIC - STAGE I
U.S. ROUTE 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(511 & 525) B-R-1	COOK	21	5
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



U.S. ROUTE 45
(S. LA GRANGE RD.)



LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- ARROW BOARD
- SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS
- EXISTING PAVEMENT MARKING REMOVAL
- DOUBLE VERTICAL PANELS @ 20' C-C
- DRUMS @ 20' C-C (TAPERS), 50' C-C (TANGENTS)
- DIRECTION INDICATOR BARRICADES W/ STEADY BURN LIGHTS @ 20' C- C
- FLAGGER
- SPEED DISPLAY TRAILER

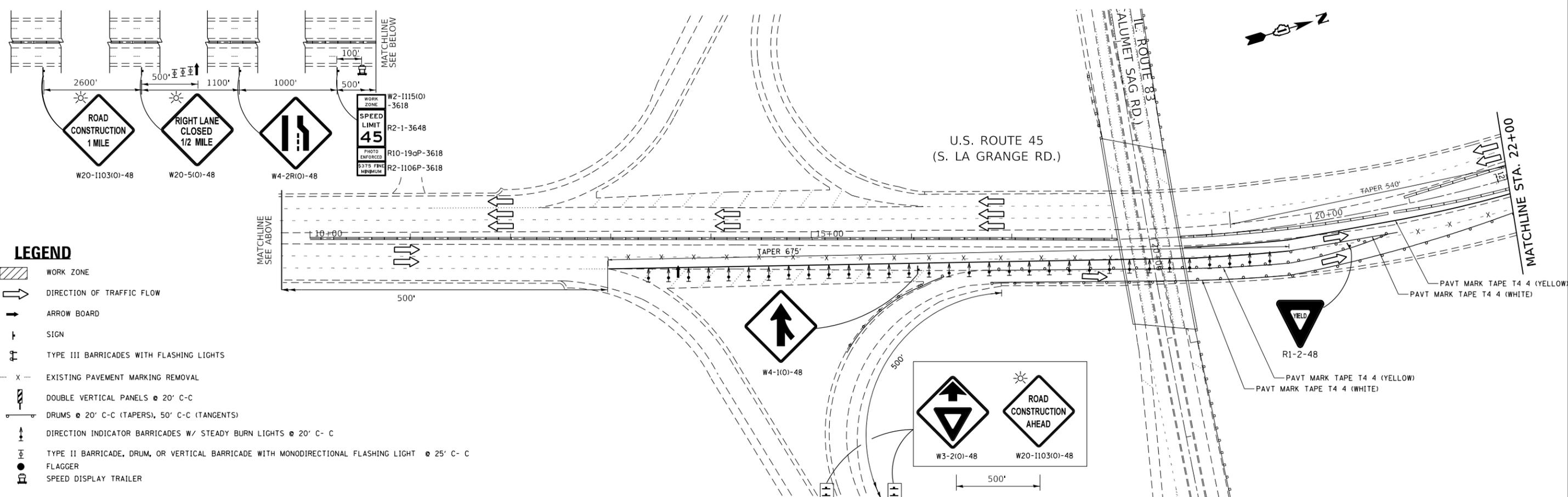
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

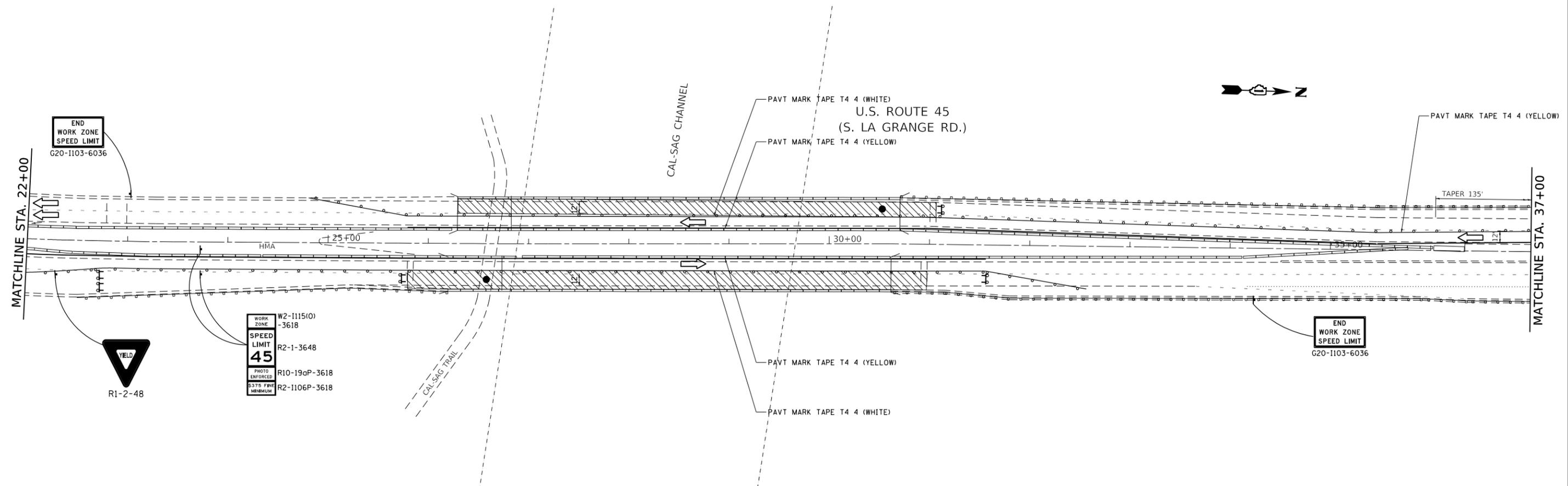
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(511 & 525) B-R-1	COOK	21	6
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- ARROW BOARD
- SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS
- EXISTING PAVEMENT MARKING REMOVAL
- DOUBLE VERTICAL PANELS @ 20' C-C
- DRUMS @ 20' C-C (TAPERS), 50' C-C (TANGENTS)
- DIRECTION INDICATOR BARRICADES W/ STEADY BURN LIGHTS @ 20' C-C
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT @ 25' C-C
- FLAGGER
- SPEED DISPLAY TRAILER



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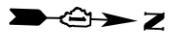
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

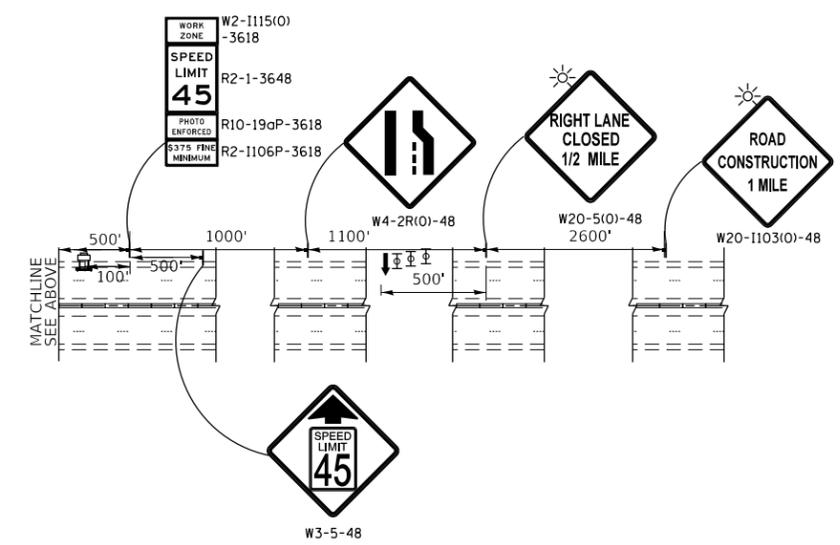
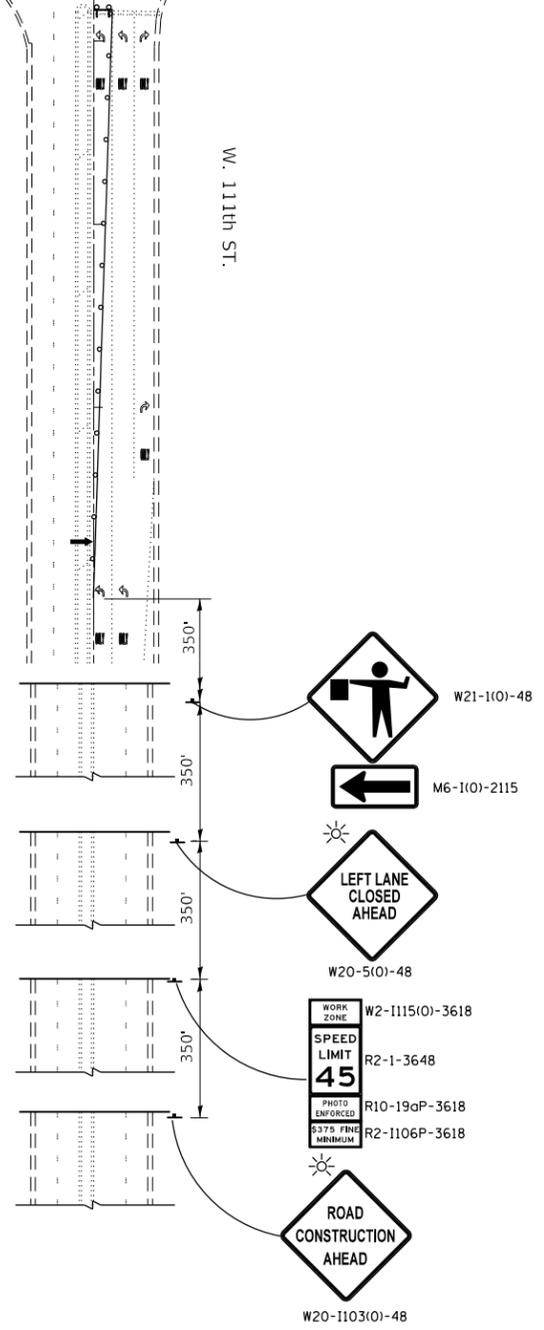
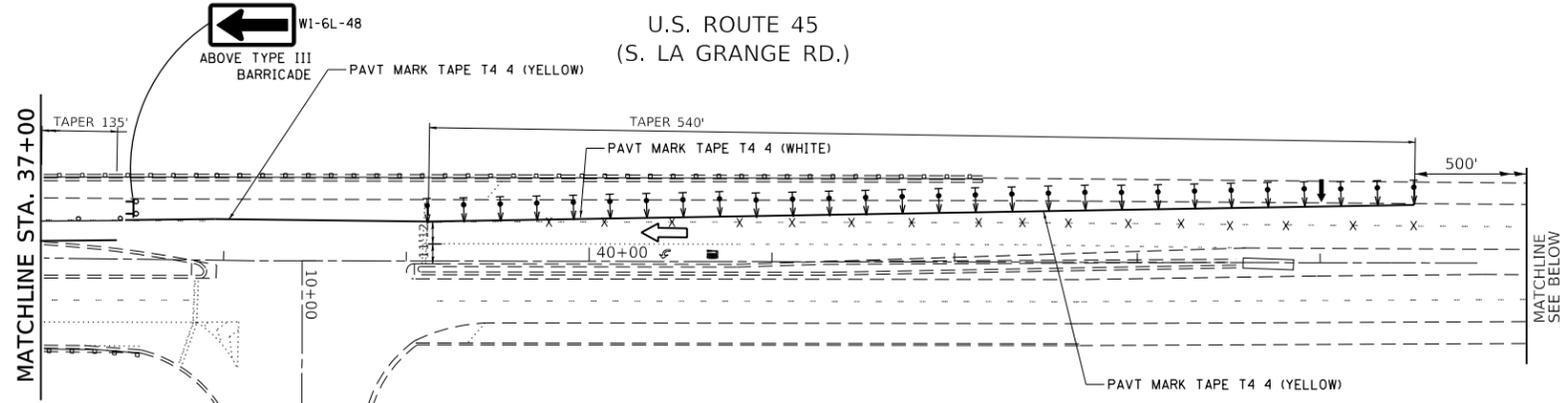
MAINTENANCE OF TRAFFIC - STAGE II
U.S. ROUTE 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(511 & 525) B-R-1	COOK	21	7
CONTRACT NO. 62G50				
		ILLINOIS	FED. AID PROJECT	



U.S. ROUTE 45
(S. LA GRANGE RD.)



LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- ARROW BOARD
- SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS
- EXISTING PAVEMENT MARKING REMOVAL
- DOUBLE VERTICAL PANELS @ 20' C-C
- DRUMS @ 20' C-C (TAPERS), 50' C-C (TANGENTS)
- DIRECTION INDICATOR BARRICADES W/ STEADY BURN LIGHTS @ 20' C-C
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT @ 25' C-C
- FLAGGER
- SPEED DISPLAY TRAILER

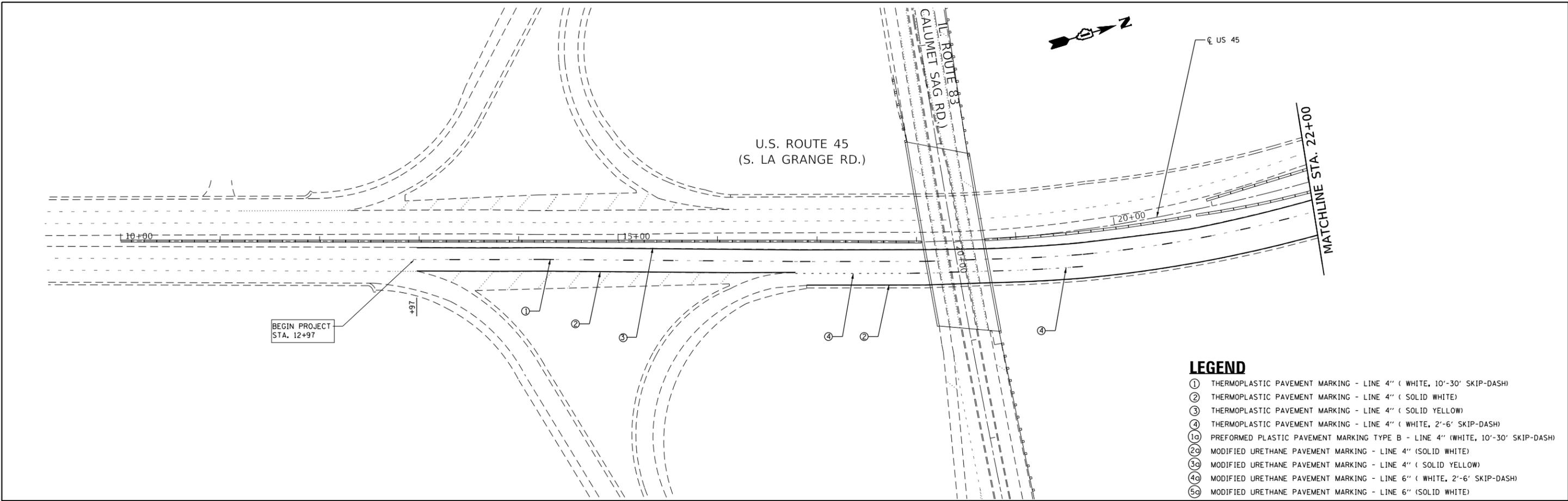
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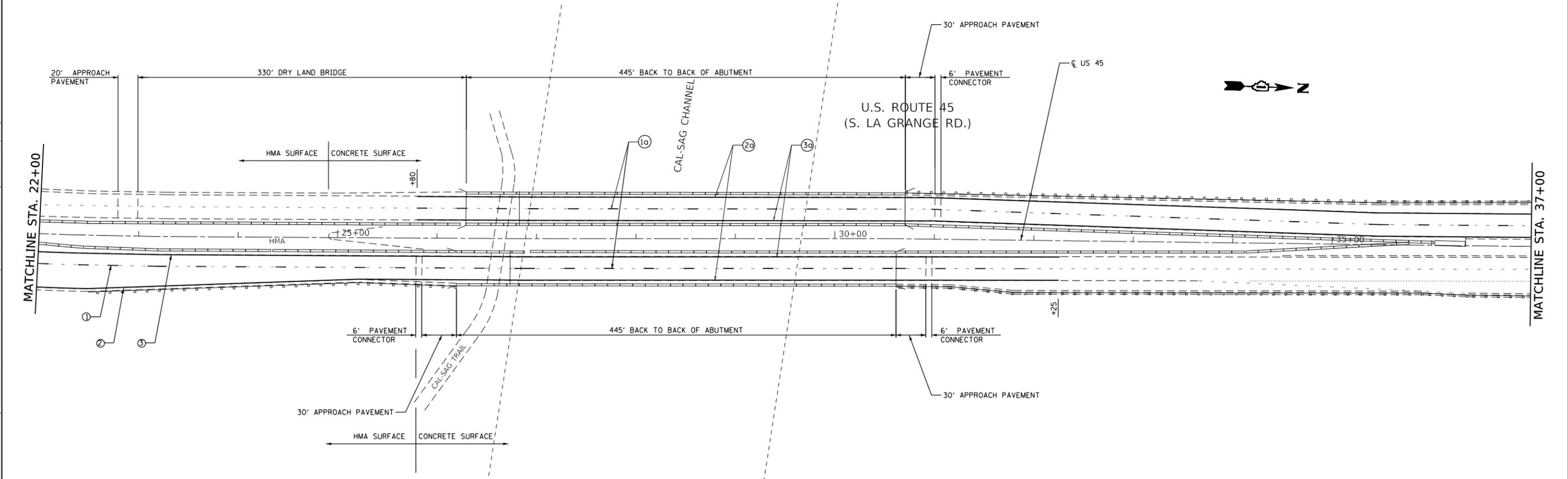
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE II	
U.S. ROUTE 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(511 & 525) B-R-1	COOK	21	8
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE, 10'-30' SKIP-DASH)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE, 2'-6' SKIP-DASH)
 - ⑩ PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" (WHITE, 10'-30' SKIP-DASH)
 - ⑳ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ㉑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ㉒ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE, 2'-6' SKIP-DASH)
 - ㉓ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (SOLID WHITE)



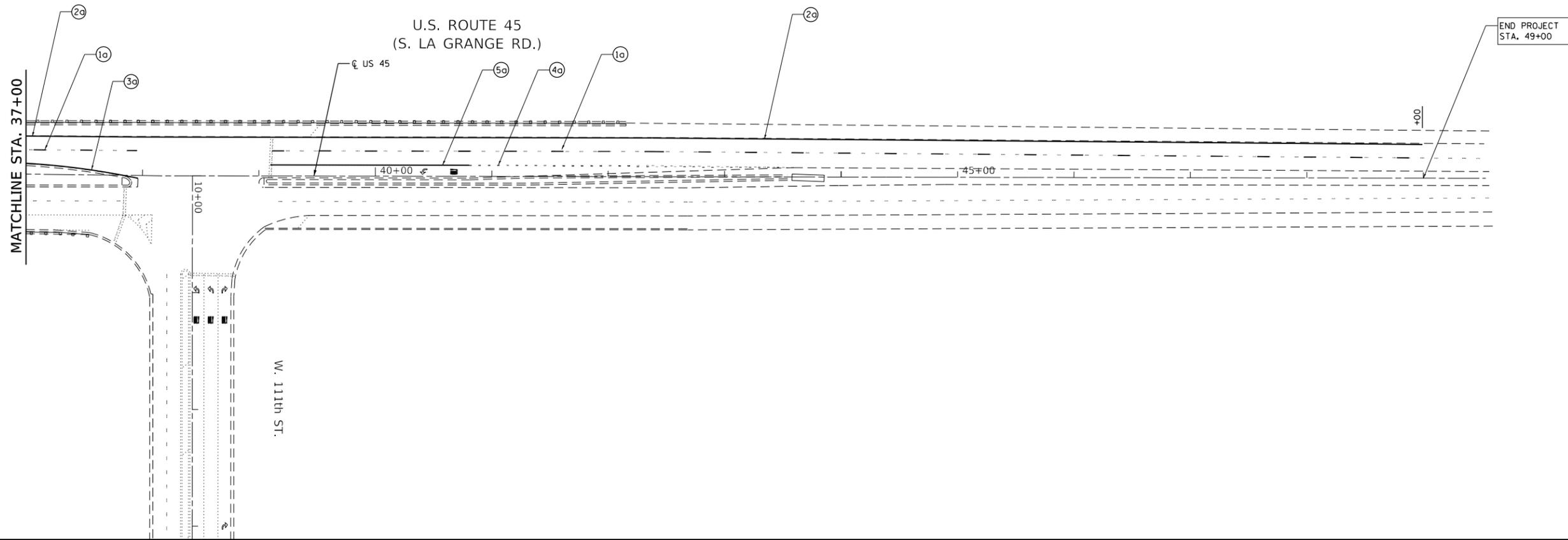
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PLOT DATE = 12/14/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN U.S. ROUTE 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(511 & 525) B-R-1	COOK	21	9
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



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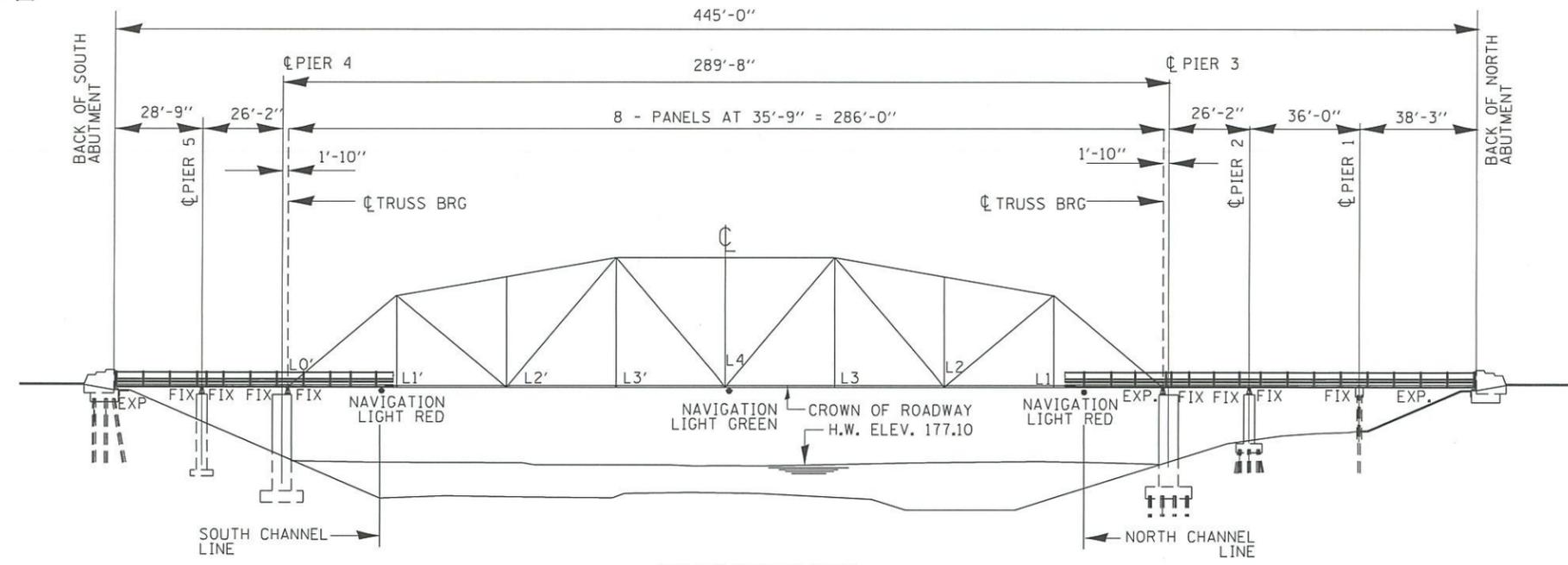
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PLOT DATE = 12/14/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN
 U.S. ROUTE 45 (LA GRANGE RD.) AT CAL-SAG CHANNEL**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(511 & 525) B-R-1	COOK	21	10
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



ELEVATION

GENERAL NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT 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 BASED AT THE UNIT PRICE BID FOR THE WORK.

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.

AREA OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

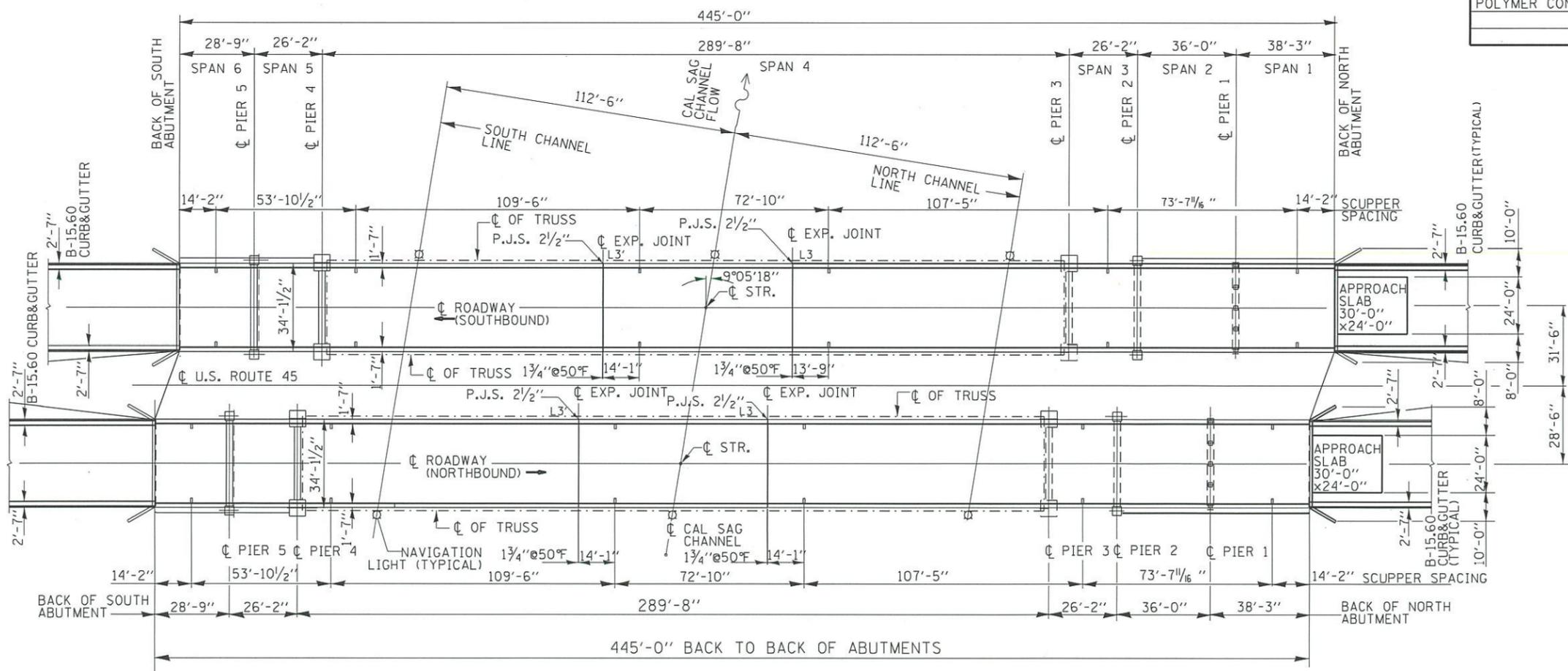
JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

ALL NEW STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZED FOR STRUCTURAL STEEL"

DO NOT SCALE DIMENSIONS.

TOTAL BILL OF MATERIALS

ITEM	S.N. 016-0343		S.N. 016-0344	
	UNIT	QUANTITY	UNIT	QUANTITY
BRIDGE DECK CONCRETE SEALER	SO.FT.	2390	SO.FT.	2390
BRIDGE DECK THIN POLYMER OVERLAY, 3/8"	SO.YD.	1673	SO.YD.	1673
CONCRETE BRIDGE DECK SCARIFICATION, 3/8"	SO.YD.	1673	SO.YD.	1673
PREFORMED JOINT SEAL, 2"	FOOT	34	FOOT	34
PREFORMED JOINT SEAL, 2 3/4 "	FOOT	171	FOOT	171
STRUCTURAL STEEL REPAIR	POUND	206	POUND	274
POLYMER CONCRETE	CU.FT.	3.8	CU.FT.	3.8



PLAN

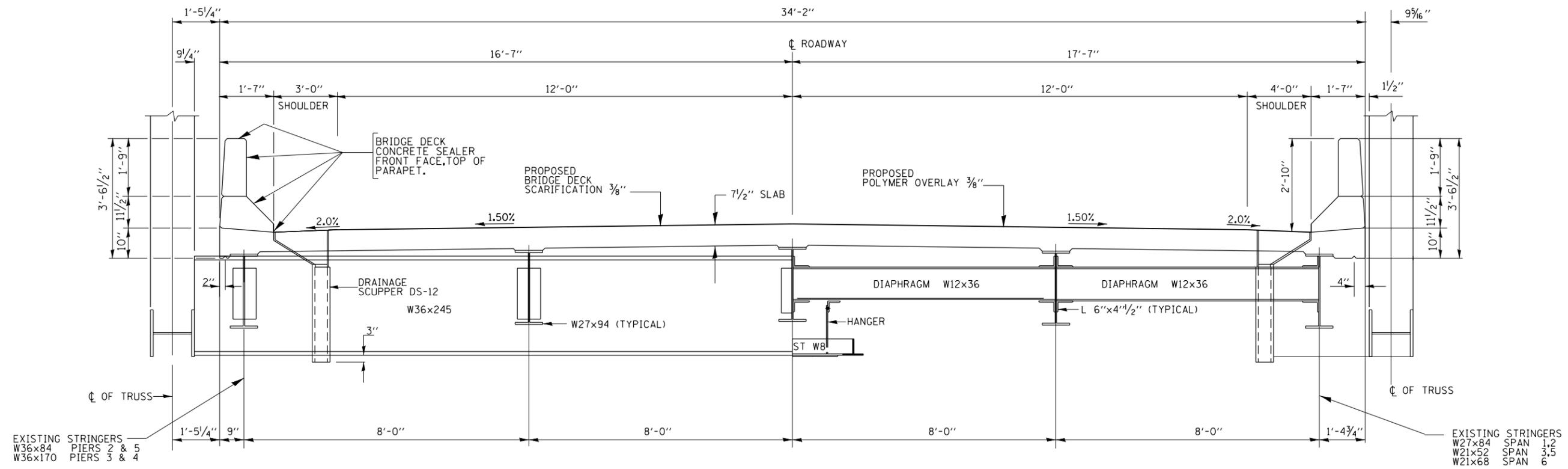


Expires 11/30/20
Dr. Carl Puzey

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DESIGNED - Jean Midy	EXAMINED - <i>Tim A. Jala</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - 01/14/19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 45 AT CAL SAG CHANNEL PLAN AND ELEVATION S.N. 016-0343 AND S.N. 016-0344	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	PASSED - <i>Dr. Carl Puzey</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			031	(5116525)B-R-1	COOK	21	11
DRAWN - Mark Tiniakos		REVISED -	SHEET 1 OF 6 SHEETS		ILLINOIS		FED. AID PROJECT		
CHECKED - Jean Midy							CONTRACT NO. 62G50		

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**CROSS SECTION
 (SOUTHBOUND-LOOKING SOUTH)
 (NORTHBOUND-LOOKING NORTH)**

BILL OF MATERIALS

ITEM	S.N. 016-0343		S.N. 016-0344	
	UNIT	QUANTITY	UNIT	QUANTITY
BRIDGE DECK THIN POLYMER OVERLAY, 3/8"	SQ.YD.	1673	SQ.YD.	1673
CONCRETE BRIDGE DECK SCARIFICATION, 3/8"	SQ.YD.	1673	SQ.YD.	1673

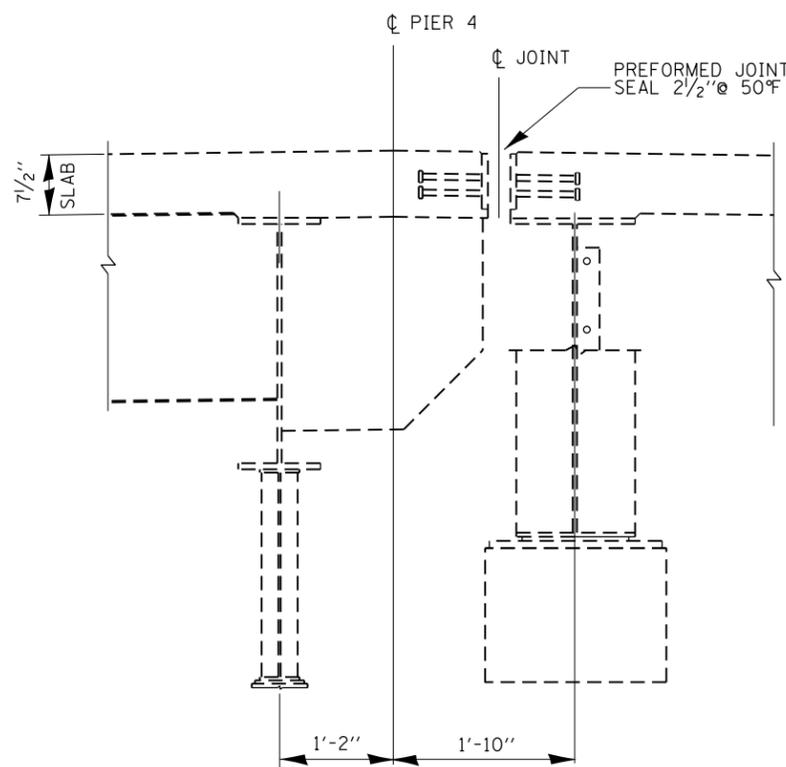
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CHECKED -	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Mark Tinlakos	PASSED	REVISED -
CHECKED - Jean Midy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

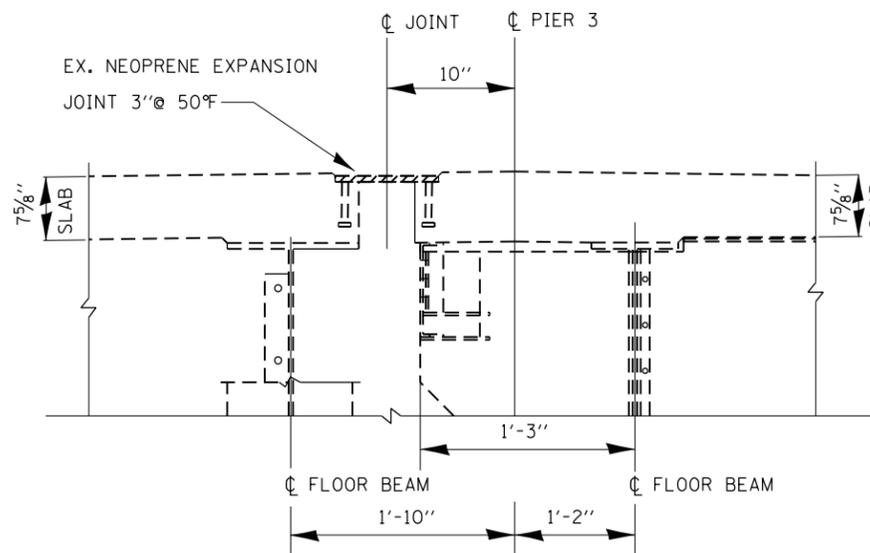
**US 45 AT CAL SAG CHANNEL
 CROSS SECTION
 S.N. 016-0343 AND S.N. 016-0344**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(511&525)B-R-1	COOK	21	12
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				

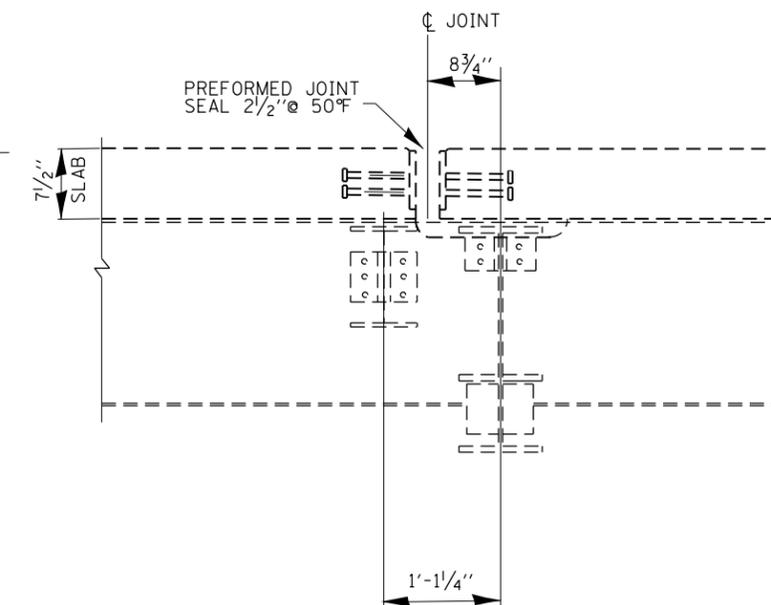
SHEET 2 OF 6 SHEETS



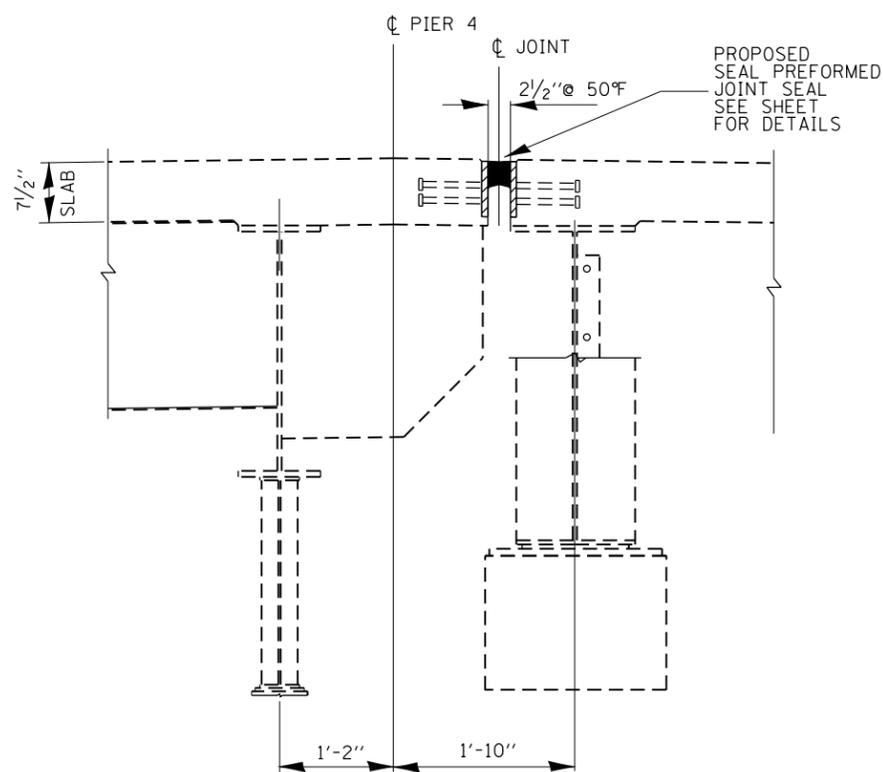
EXISTING PREFORMED JOINT SEAL AT PIER 4



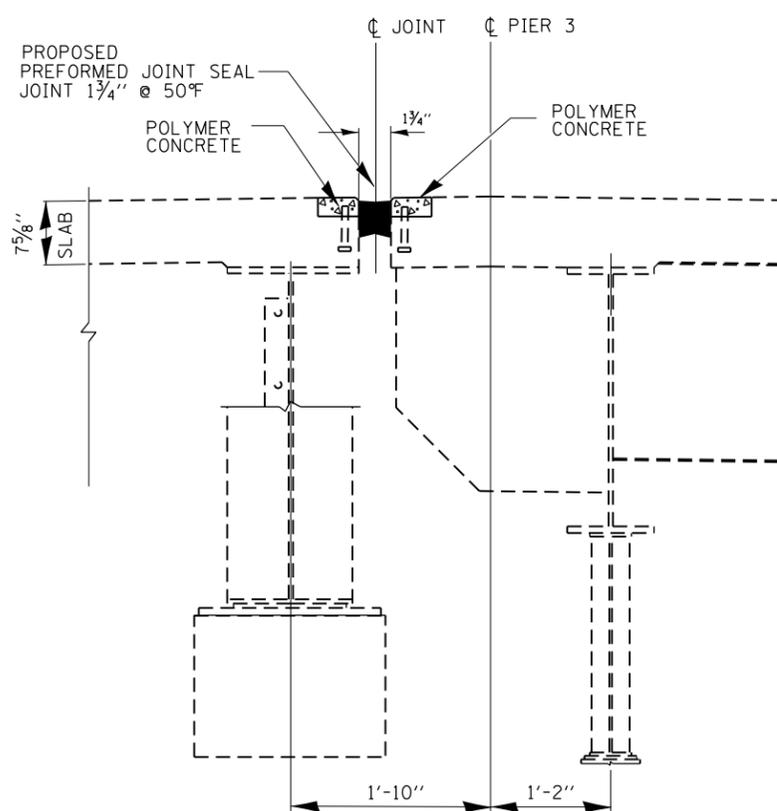
EXISTING NEOPENE JOINT AT PIER 3



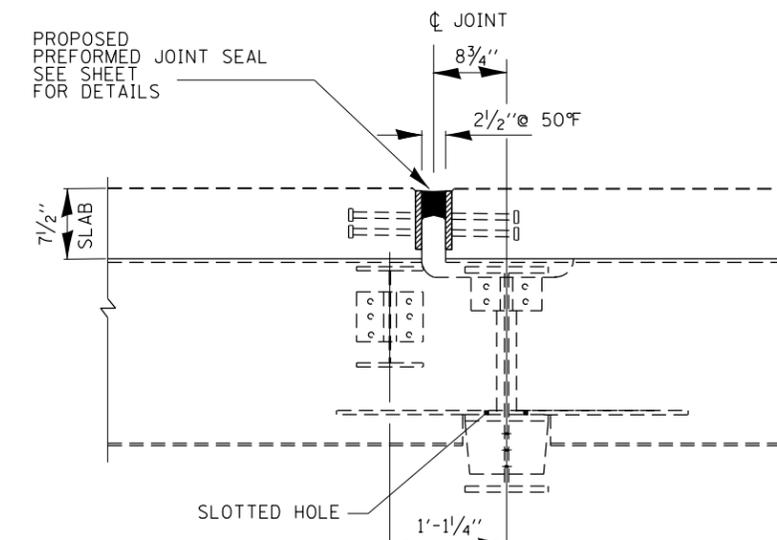
EXISTING SECTION THRU JOINT AT L3 & L3'



PROPOSED PREFORMED JOINT SEAL AT PIER 4



PROPOSED PREFORMED JOINT SEAL AT PIER 3



PROPOSED PREFORMED JOINT SEAL AT L3' AND L3

BILL OF MATERIALS

ITEM	S.N. 016-0343		S.N. 016-0344	
	UNIT	QUANTITY	UNIT	QUANTITY
POLYMER CONCRETE	CU.FT.	3.8	CU.FT.	3.8
PREFORMED JOINT SEAL, 2 3/4"	FOOT	171	FOOT	171
PREFORMED JOINT SEAL, 2"	FOOT	34	FOOT	34

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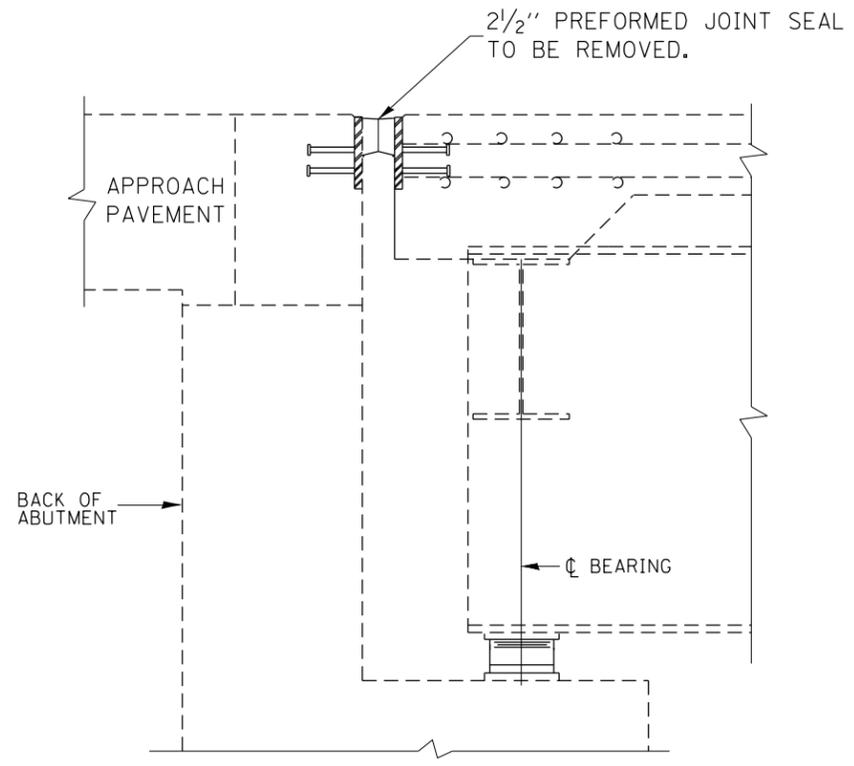
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CHECKED -	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Mark Tinakos	PASSED	REVISED -
CHECKED - Jean Midy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

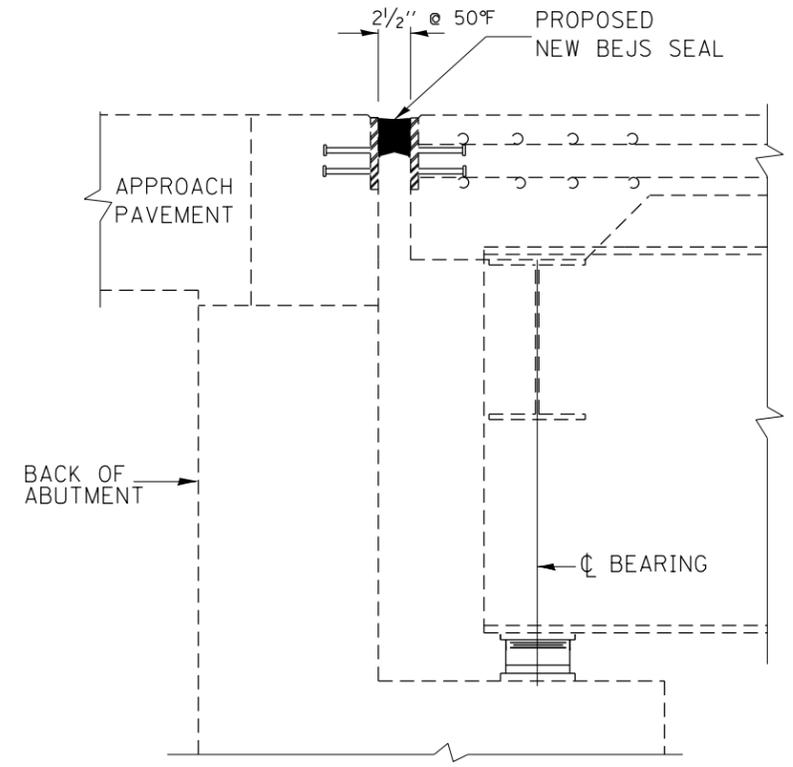
US 45 AT CAL SAG CHANNEL
 JOINT REPAIR DETAILS
 S.N. 016-0343 AND S.N. 016-0344

SHEET 3 OF 6 SHEETS

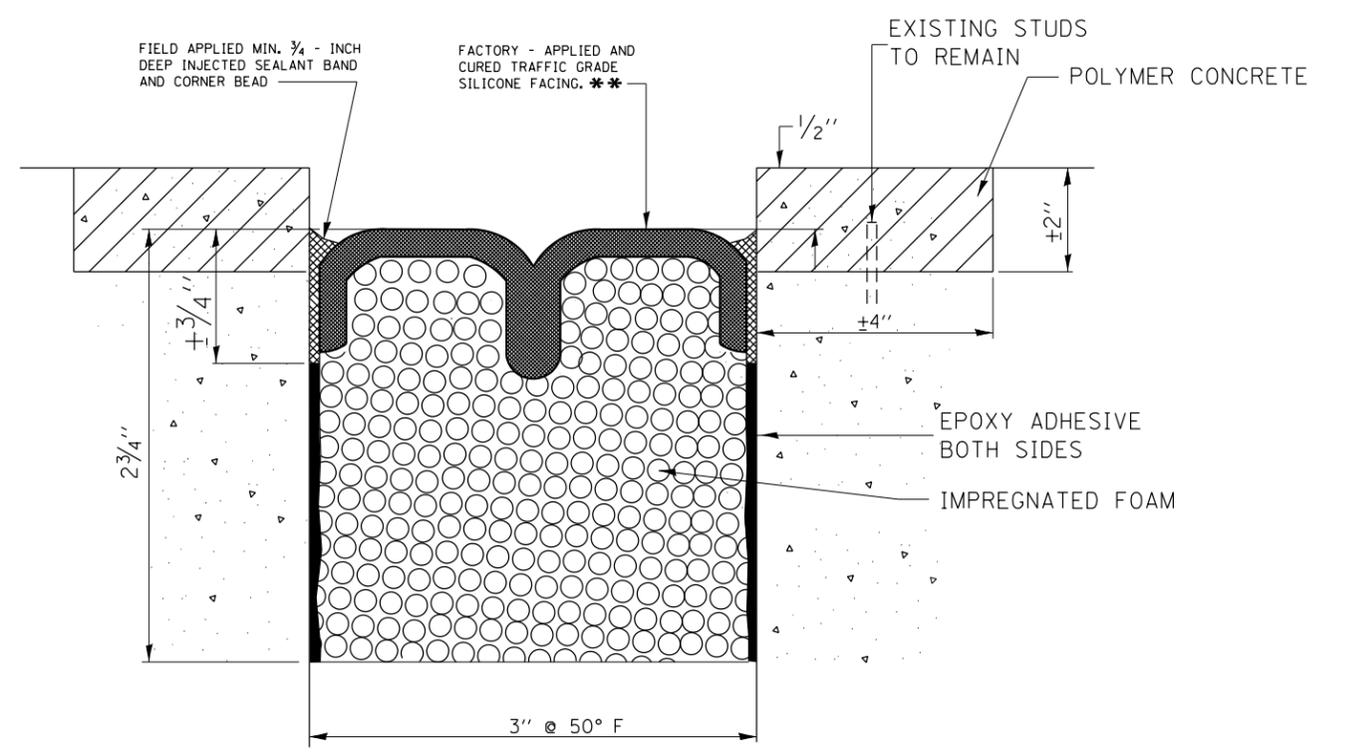
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CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



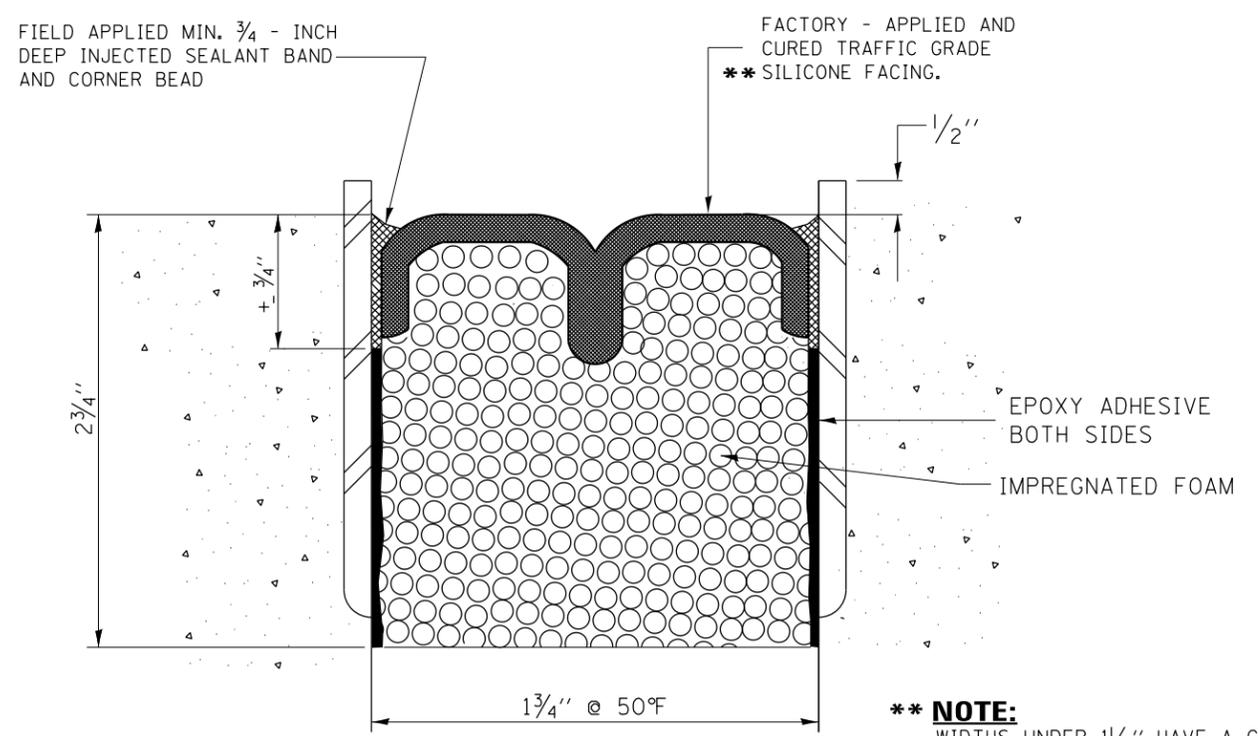
EXISTING PREFORMED JOINT SEAL AT NORTH AND SOUTH ABUTMENTS



PROPOSED PREFORMED JOINT SEAL AT ABUTMENTS



PREFORMED JOINT SEAL AT NEOPRENE BLOCKOUT PIER 3



BEJS JOINT SEAL AT PIERS AND ABUTMENTS

**** NOTE:**
 WIDTHS UNDER 1 1/4" HAVE A CONVEX SINGLE BELLOWS SURFACE WIDTHS FROM 1 1/2" TO 4" HAVE A DUAL BELLOWS SURFACE.

NOTE:
 SMALL SPALLED OR DETERIORATED CONCRETE ADJACENT TO EXPANSION JOINT SHALL BE REPAIRED, COST INCLUDED IN POLYMER CONCRETE.

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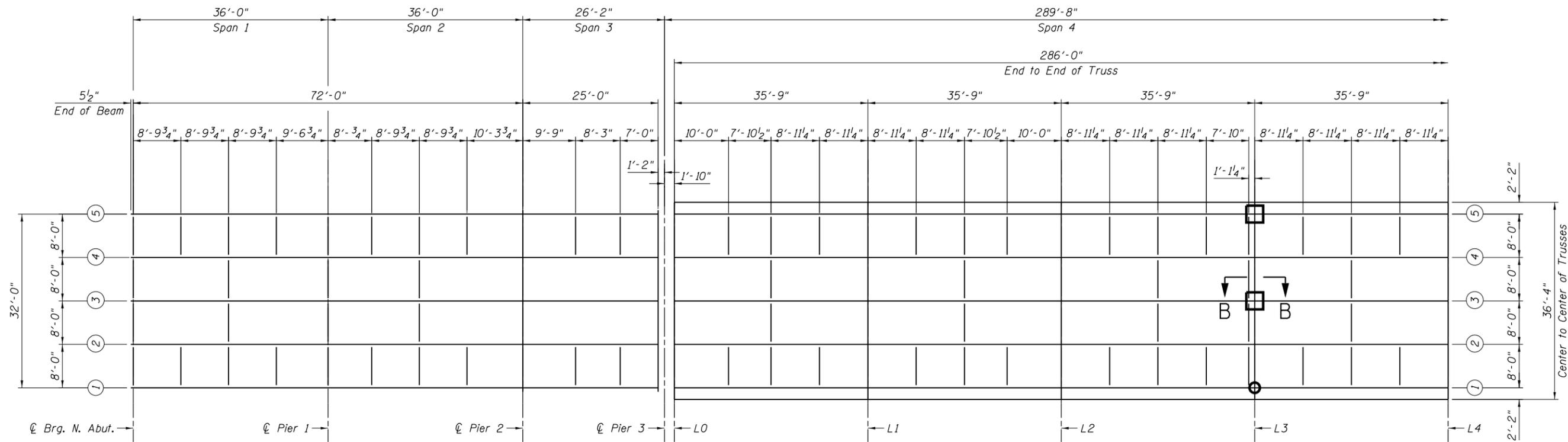
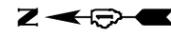
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DRAWN - Mark Tinkas	PASSED	REVISED -
CHECKED - Jean Midy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

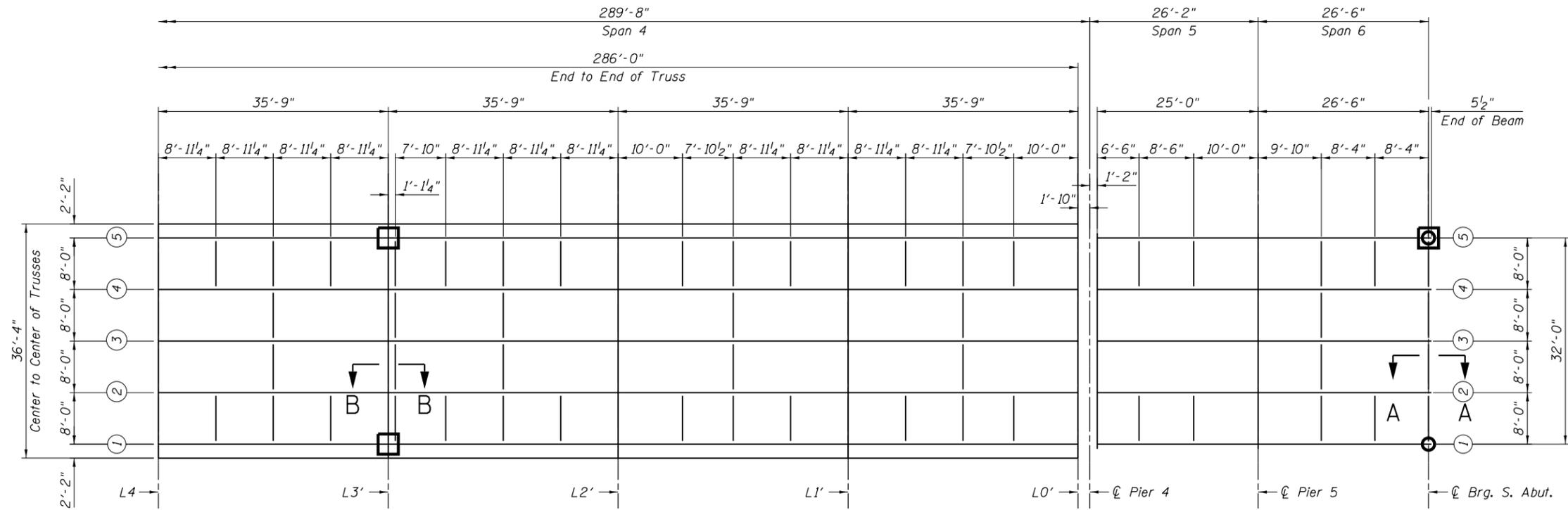
US 45 AT CAL SAG CHANNEL	
JOINT REPAIR DETAILS	
S.N. 016-0343 AND S.N. 016-0344	
SHEET 4 OF 6 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(511&525)B-R-1	COOK	21	14
CONTRACT NO. 62G50				

ILLINOIS FED. AID PROJECT	
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FRAMING PLAN



FRAMING PLAN

LEGEND

- Steel Repair Location for Structure No. 016-0343
- Steel Repair Location for Structure No. 016-0344

NOTES:

1. Cost of furnishing and installing angles included with Structural Steel Repair
2. Two hardened washers required for each set of oversized holes.
3. See Sheet 16 of 21 for Steel Repair Details. (Section A-A & Section B-B)

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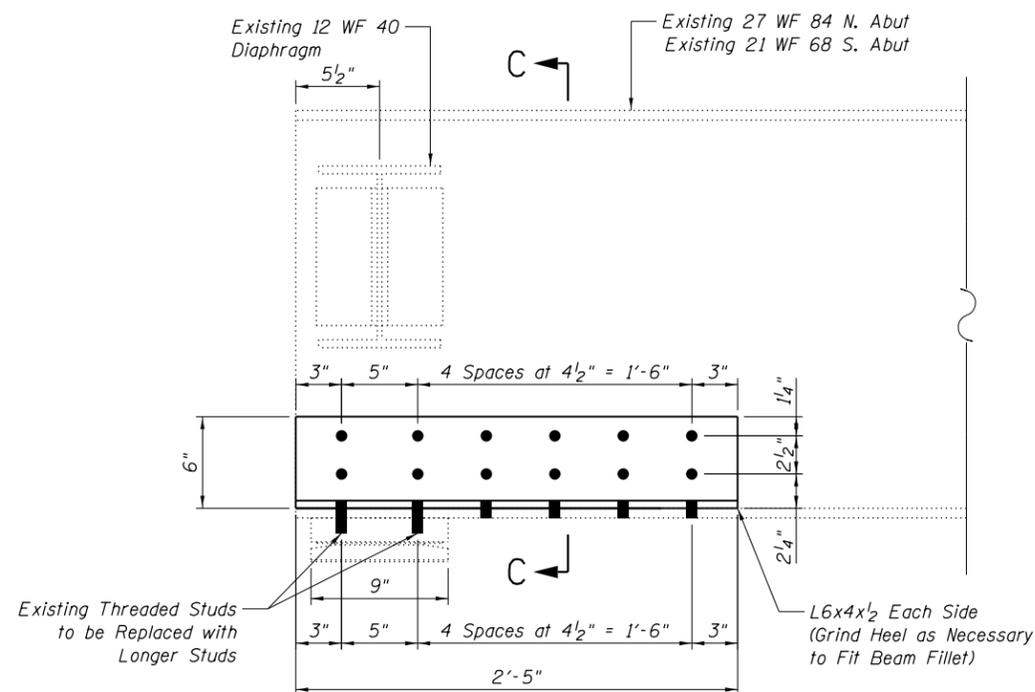
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CHECKED -	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Tom Condreva	PASSED	REVISED -
CHECKED - Jean Midy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

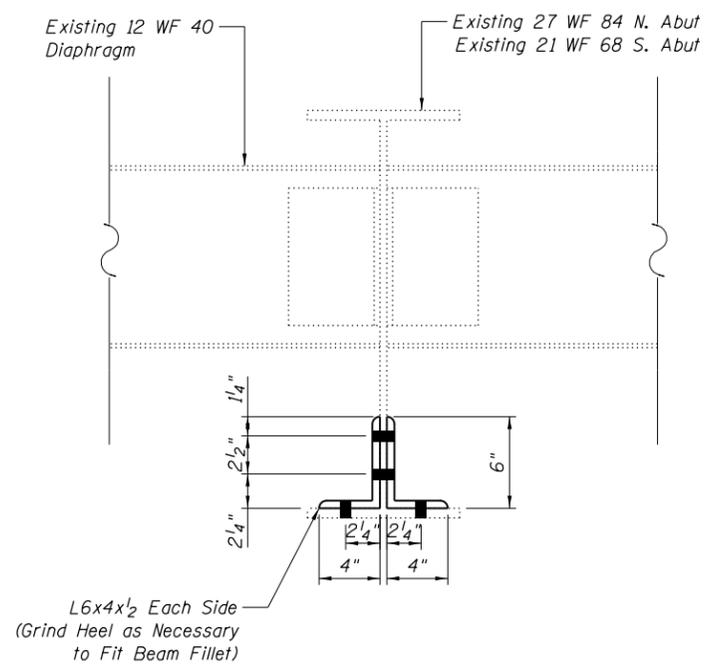
FRAMING PLAN
US 45 OVER CAL SAG CHANNEL

SHEET 5 OF 6 SHEETS

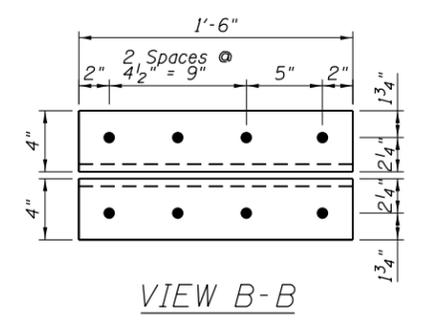
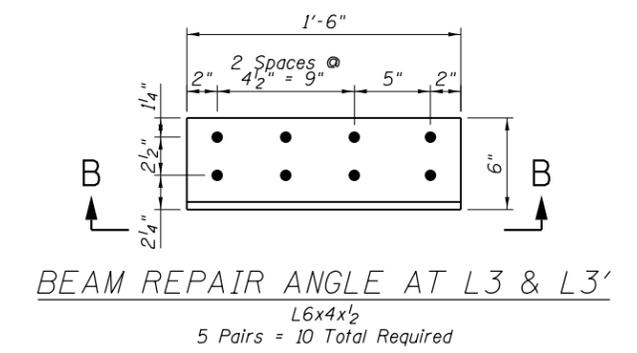
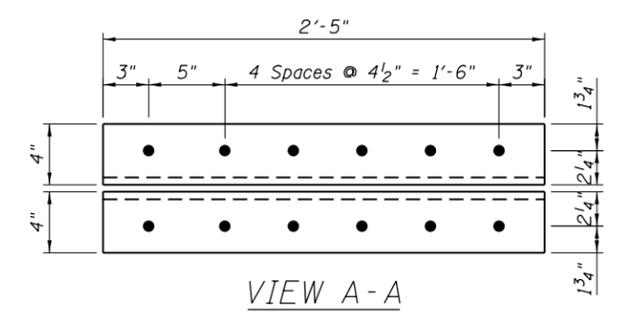
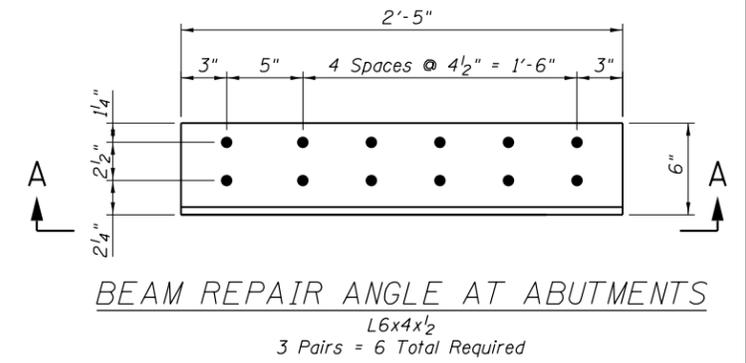
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CONTRACT NO. 62G50				
		ILLINOIS	FED. AID PROJECT	



BEAM WEB REPAIR DETAIL AT ABUTMENTS
SECTION A-A



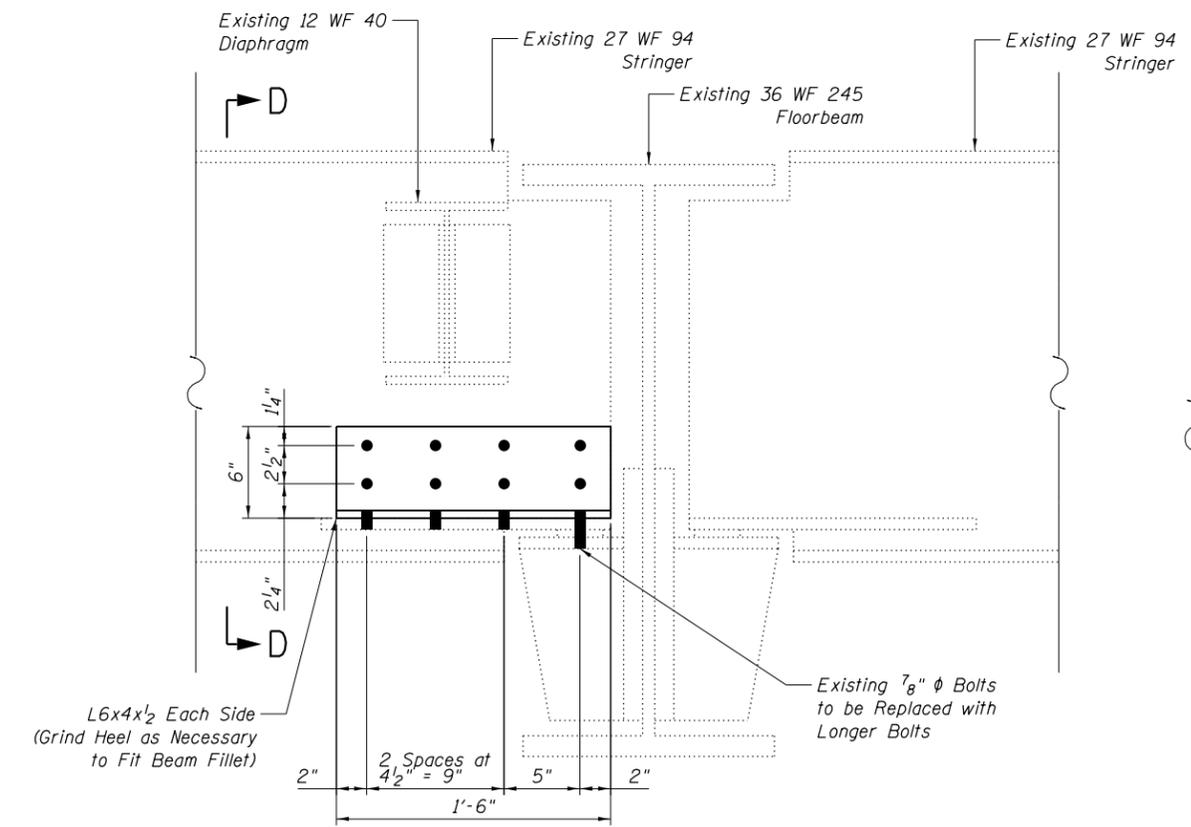
BEAM WEB REPAIR DETAIL AT ABUTMENTS
SECTION C-C



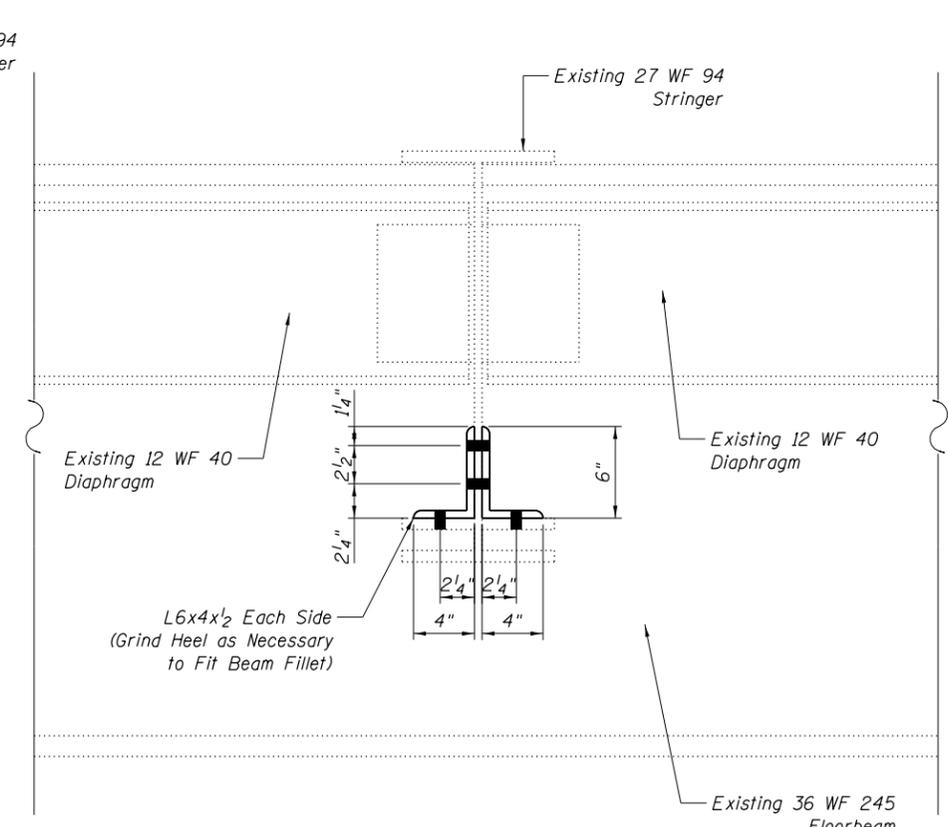
BILL OF MATERIAL

Item	Unit	Total	
		SN 016-0343	SN 016-0344
Structural Steel Repair	Lbs.	206	274

Notes:
Field drill holes in existing beam's web and flange using new angles as template.



BEAM WEB REPAIR DETAIL AT L3 & L3'
SECTION B-B



BEAM WEB REPAIR DETAIL AT L3 & L3'
SECTION D-D

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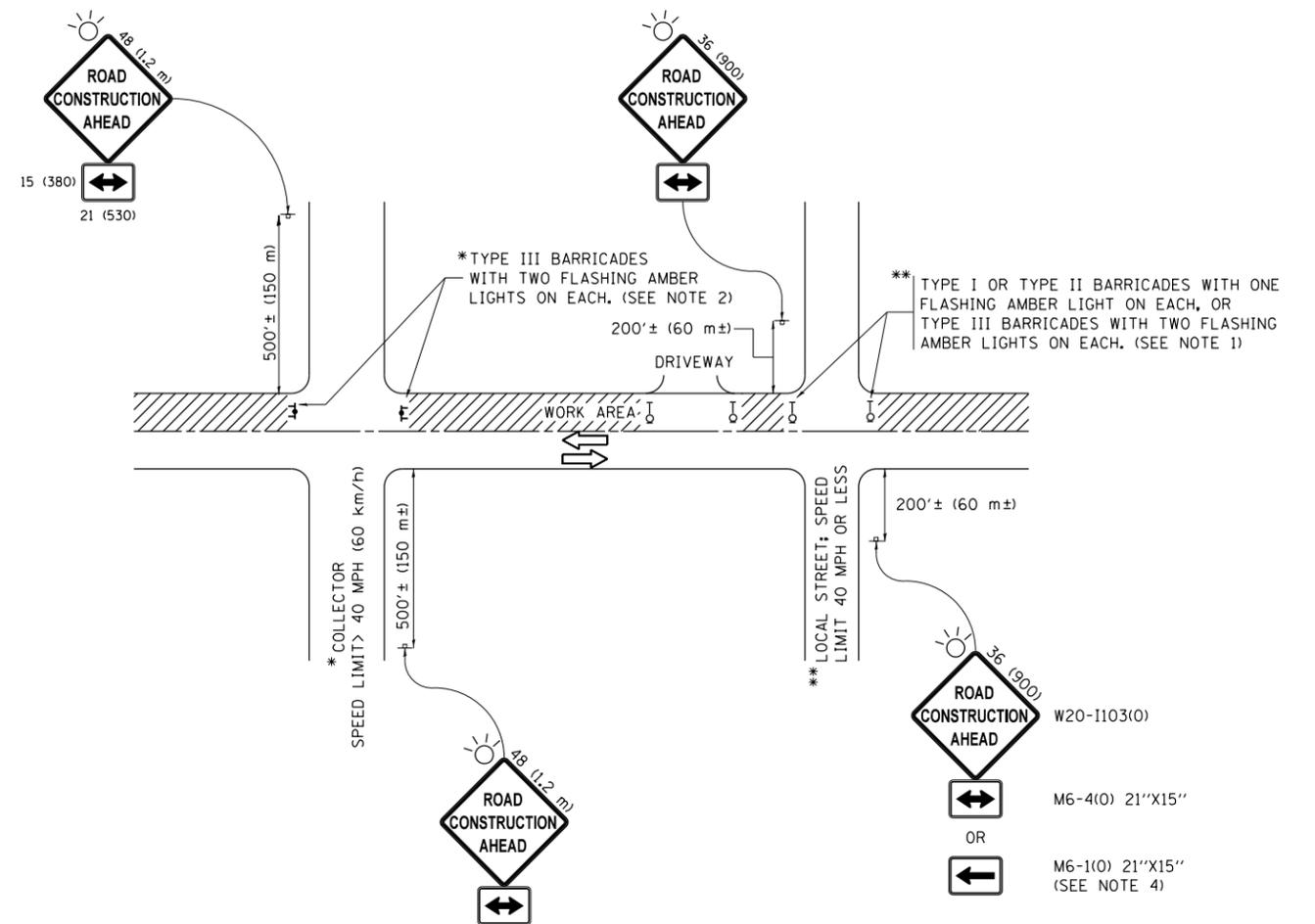
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CHECKED -	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Tom Condreva	PASSED	REVISED -
CHECKED - Jean Midy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL REPAIR DETAILS
US 45 OVER CAL SAG CHANNEL

SHEET 6 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(511&525)B-R-1	COOK	21	16
CONTRACT NO. 62G50				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

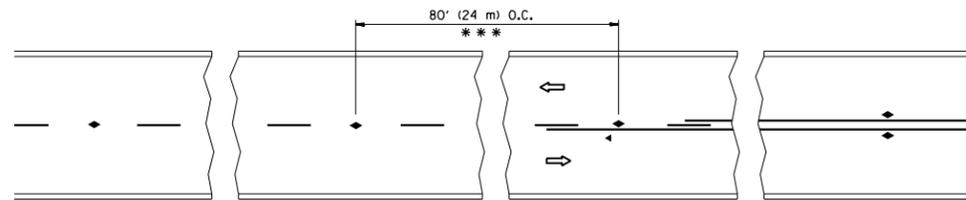
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

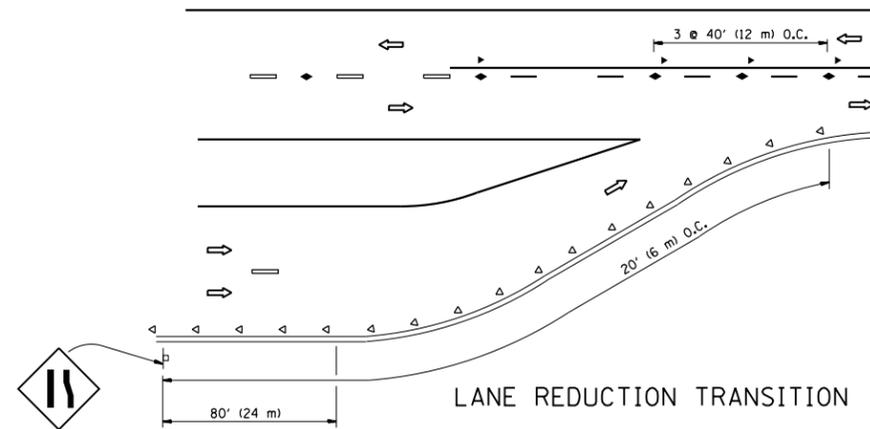
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ILLINOIS FED. AID PROJECT				

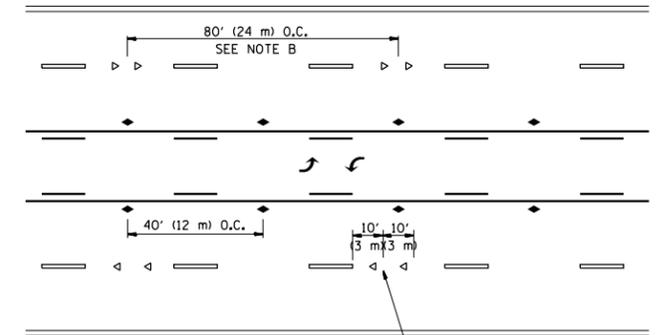


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

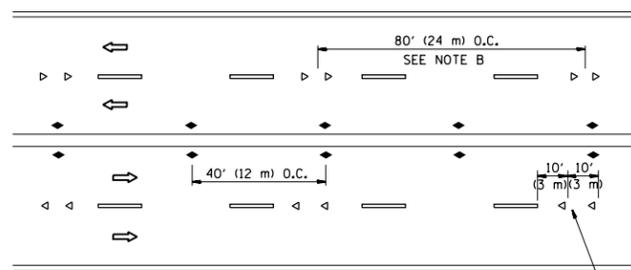
TWO-LANE/TWO-WAY



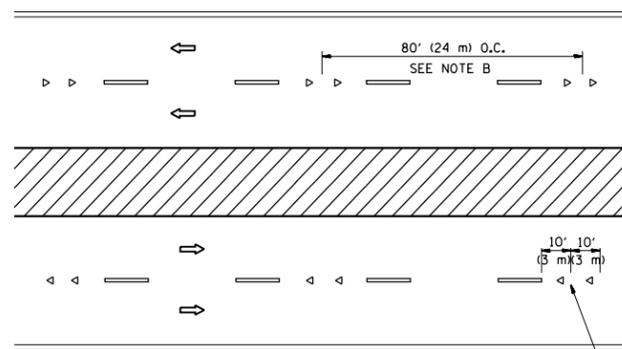
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

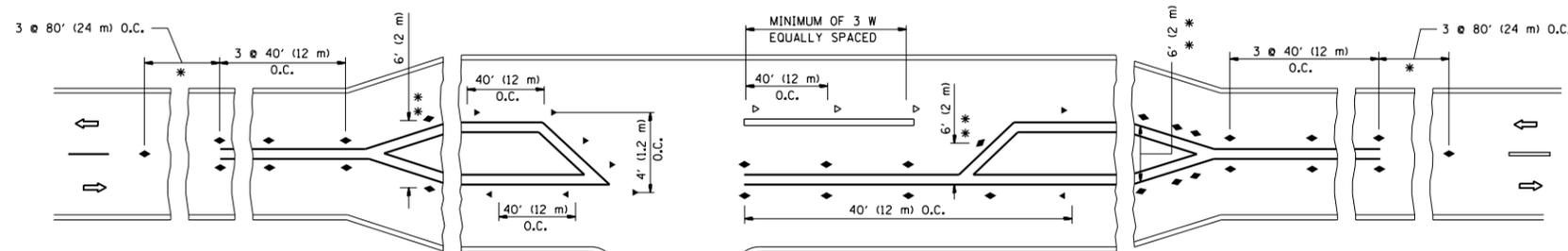
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	18
TC-11			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

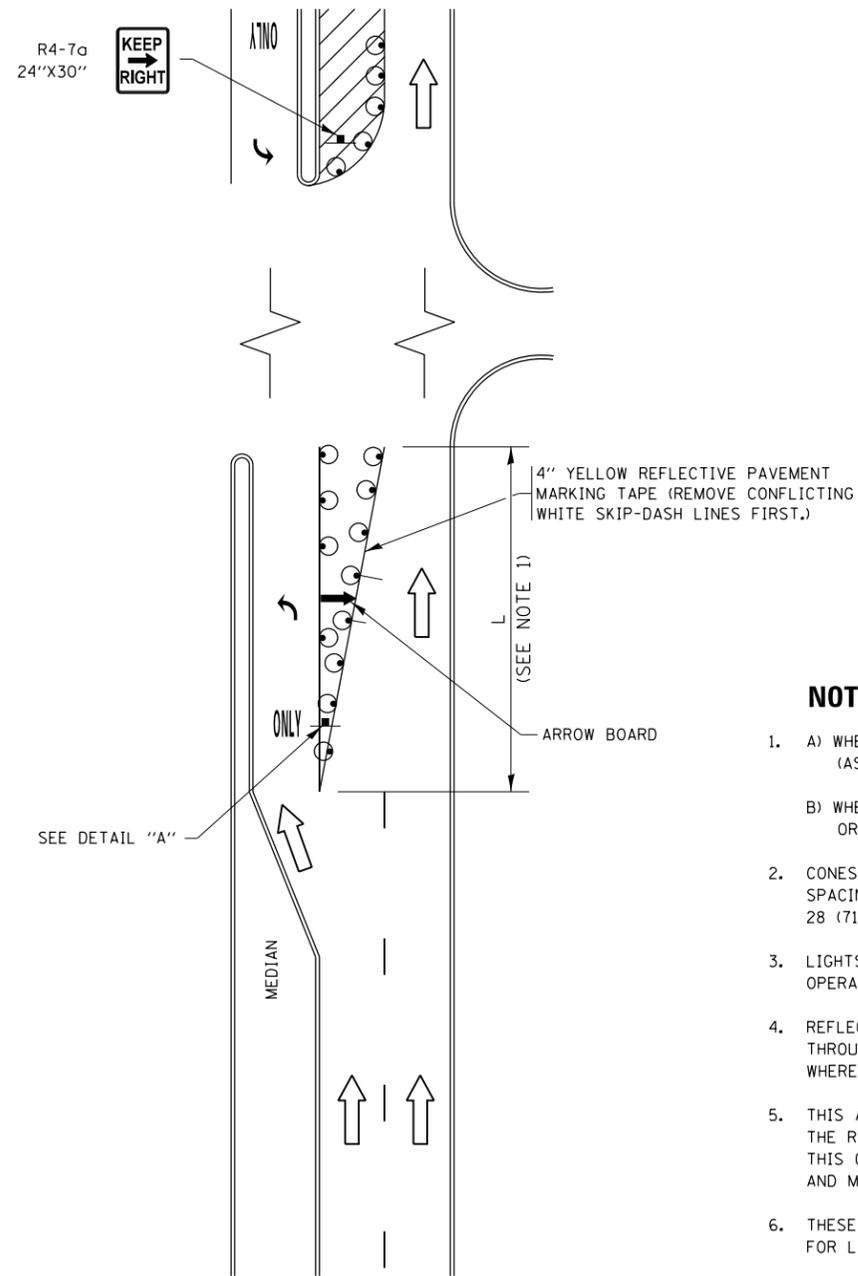


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

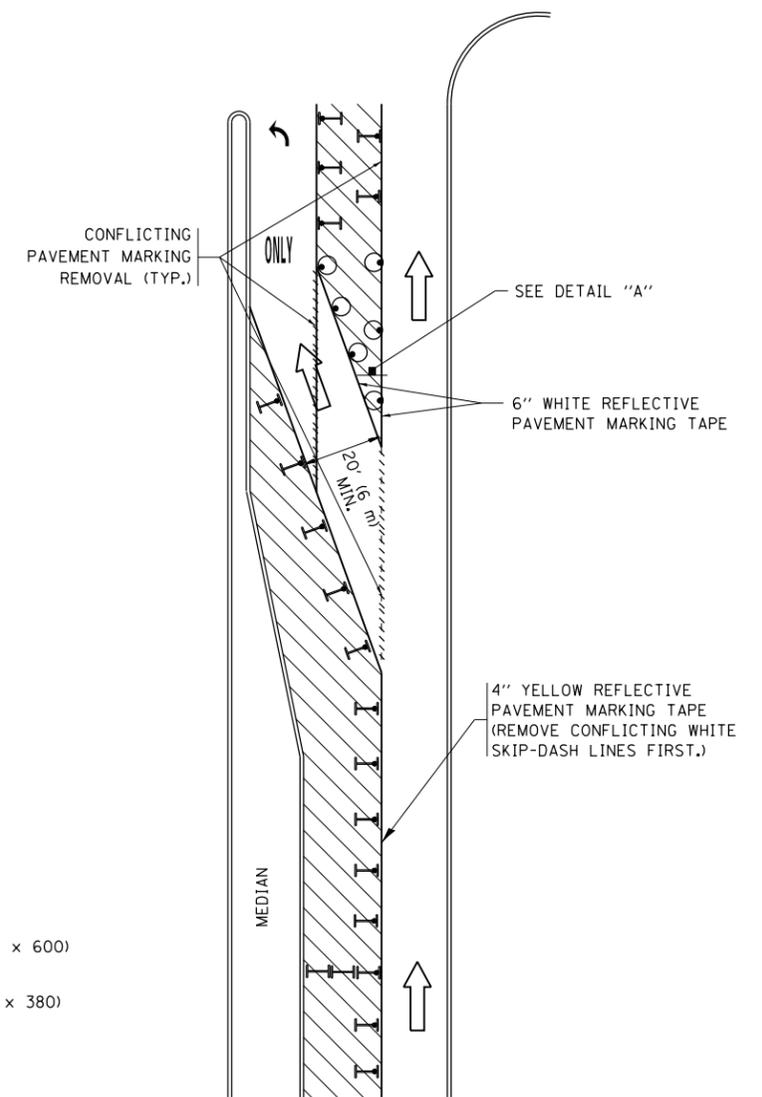
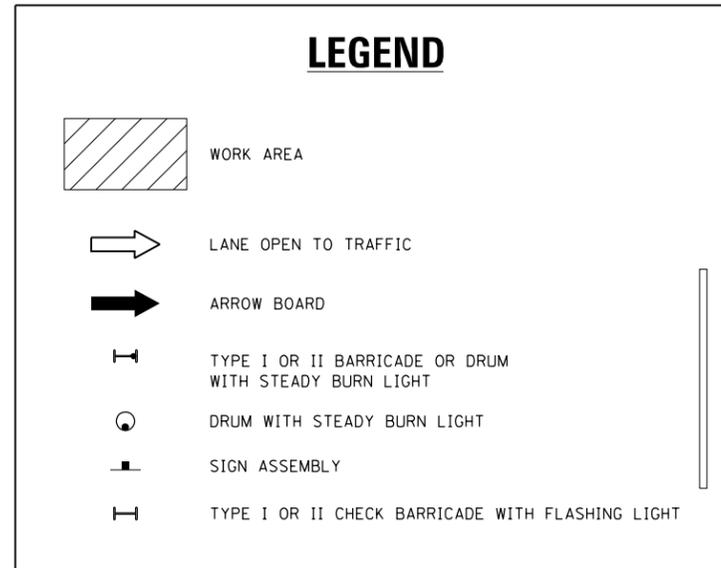
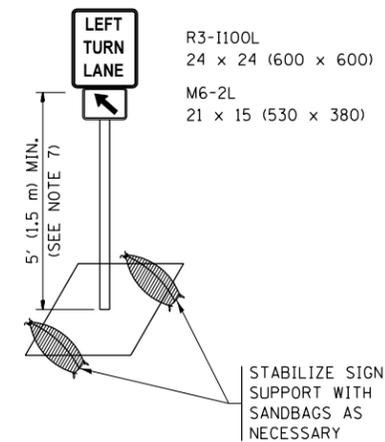


FIGURE 2



NOTES:

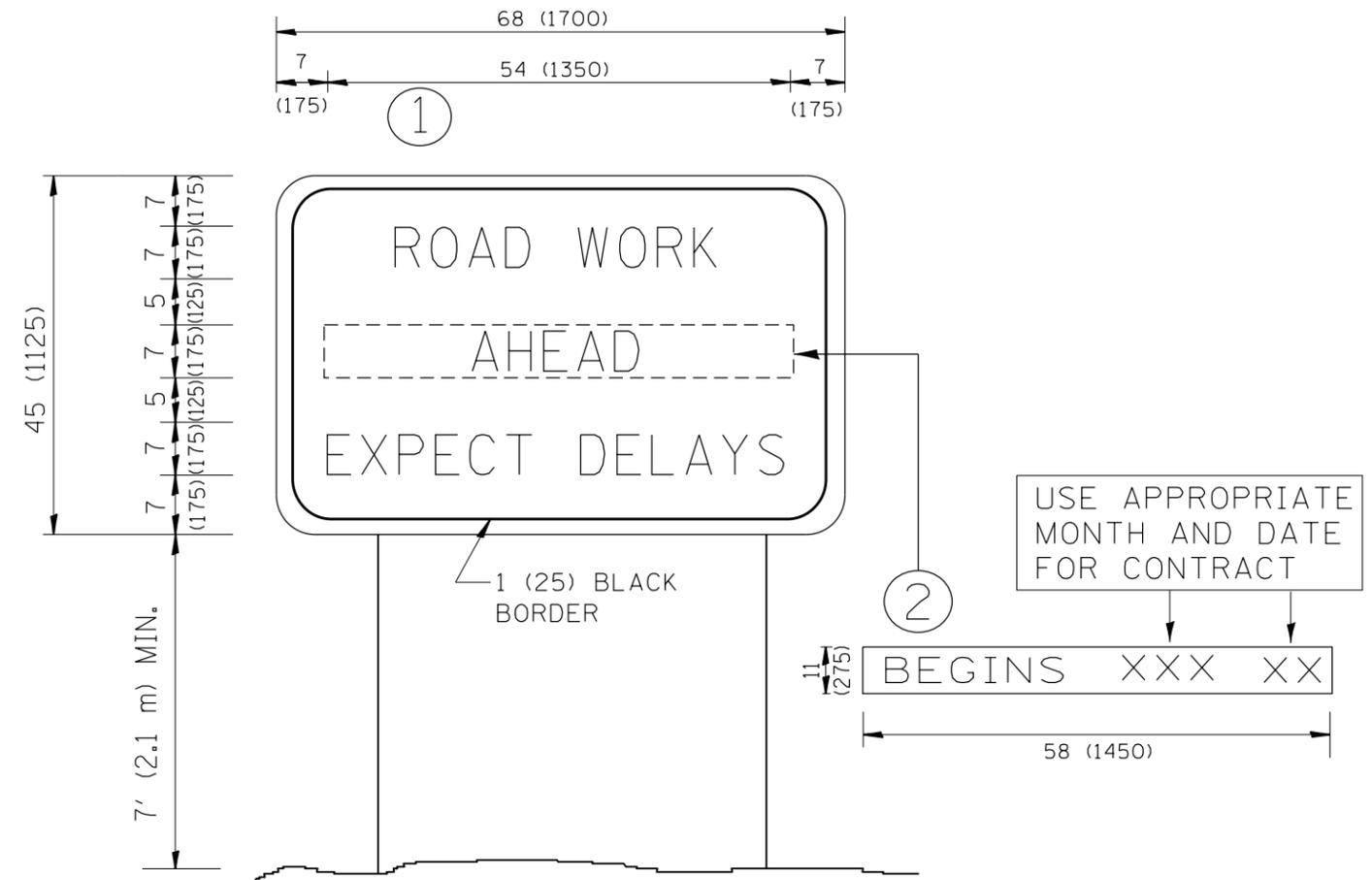
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

FILE NAME =	USER NAME = condrevate	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16					TC-14			21	20
	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13		CONTRACT NO.			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 12/14/2018	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.			



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = condrevate	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI31\BROWNS\Design\DistStd.dgn			REVISED - R. MIRS 12-11-97		TC-22			CONTRACT NO.			21	21
		CHECKED -	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
		DATE -	REVISED - C. JUCIUS 01-31-07									