

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	1
SN 016-0427		ILLINOIS	CONTRACT NO. 62D31	

*30 + 1 = 31 TOTAL
D-91-460-16

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE VILLAGE OF LEMONT

TRAFFIC DATA

2013 ADT = 30,100
POSTED SPEED = 45 MPH

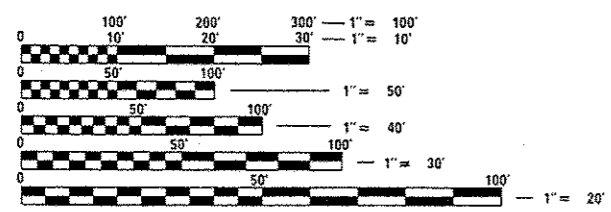
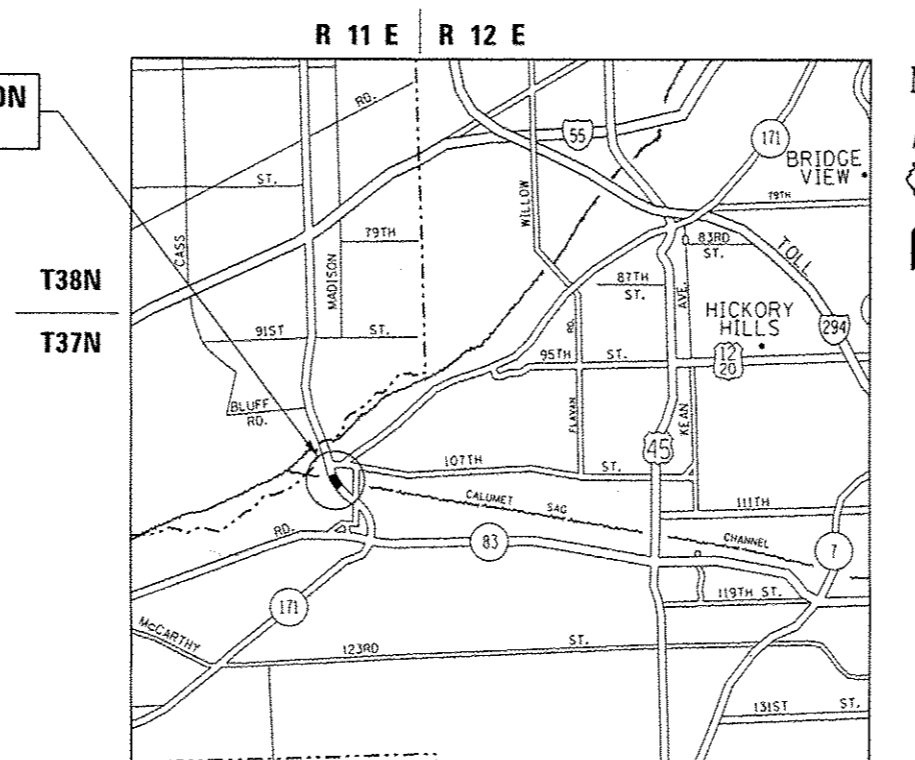
PROPOSED
HIGHWAY PLANS

FAP 344: IL 83 /171 (ARCHER AVE.)
OVER CAL SAG CHANNEL
SECTION: 545B-BR
BRIDGE REPAIRS
COOK COUNTY

C-91-460-16



IMPROVEMENT LOCATION
SN 016-0427



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 (847)-221-3056
PROJECT MANAGER: ISSAM RAYYAN (847)-705-4178

GROSS LENGTH = 305.42 FT. = 0.058 MILE
NET LENGTH = 305.42 FT. = 0.058 MILE

CONTRACT NO. 62D31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1/5 2017
As King of [Signature]
REGIONAL ENGINEER

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

Jan 27 2017
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-17	BRIDGE PLANS (SN 016-0427)
18-19	DETOUR PLANS
20-24	STAGING PLANS
25-26	FINAL PAVEMENT MARKING PLANS
27	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
28	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
29	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
29A	SHORT TERM PAVEMENT MARKINGS LETTERS AND SYMBOLS (TC-16)
30	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTIALNE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701606-10	URBAN LANE CLOSURE, MULTILANE, 2-W, WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

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.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF LEMONT.

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 BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

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.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

OIL PIPELINES ARE ATTACHED TO BOTH SIDES OF THE BRIDGE. CARE SHOULD BE TAKEN WHILE WORKING AROUND EXISTING PIPELINES.

REMOVAL AND REINSTALLATION OF THE PEDESTRIAN FENCE ALONG THE EAST SIDE OF THE SIDEWALK SHOULD BE INCIDENTAL TO THE IMPROVEMENT.

THE ENGINEER SHALL CONTACT ERIC CAMPOS, IDOT'S AREA TRAFFIC FIELD ENGINEER FOR WILL COUNTY, VIA EMAIL AT ERIC.CAMPOS@ILLINOIS.GOV OR AT (815)485-6475 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

FOR ACCESS BELOW THE TRUSS, THE CONTRACTOR SHALL CONTACT THE HEAD DISTRICT ATTORNEY, MS. SUSAN MORAKALIS AT (312) 751-6557 FOR A PERMIT OR TEMPORARY EASEMENT.

FILE NAME :	USER NAME : pyrsenovskrb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE x 100.0000 1/1 in.		CHECKED -	REVISED -		CONTRACT NO. 62031								
PLOT DATE : 1/10/2017		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

URBAN 100% STATE

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014				
50102400	CONCRETE REMOVAL	CU YD	49.2	49.2				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	49.2	49.2				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5330	5330				
50800515	BAR SPLICERS	EACH	68	68				
52000110	PERFORMED JOINT STRIP SEAL	FOOT	242	242				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9				
67100100	MOBILIZATION	L SUM	1	1				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	8173	8173				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1125	1125				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1125	1125				
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2				
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2				
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	6602	6602				
78100300	REPLACEMENT REFLECTOR	EACH	50	50				
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	110	110				

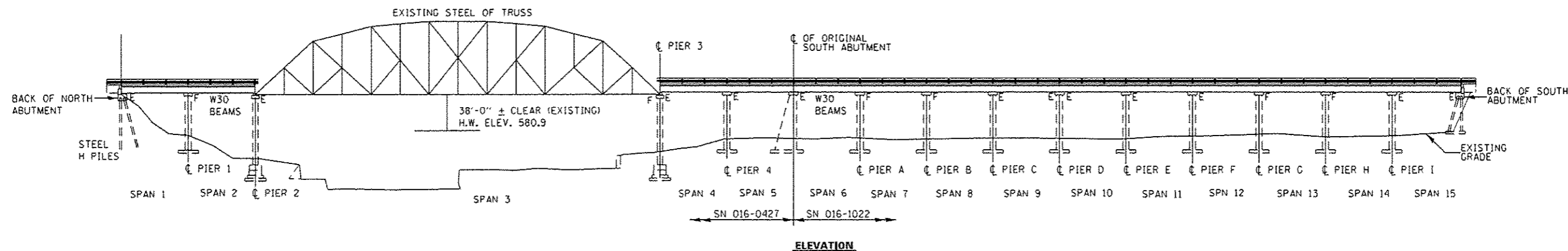
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014				
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	622	622				
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	64946	64946				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2725	2725				
Z0001905	STRUCTURAL STEEL REPAIR	POUND	3580	3580				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4				

*Specialty Item

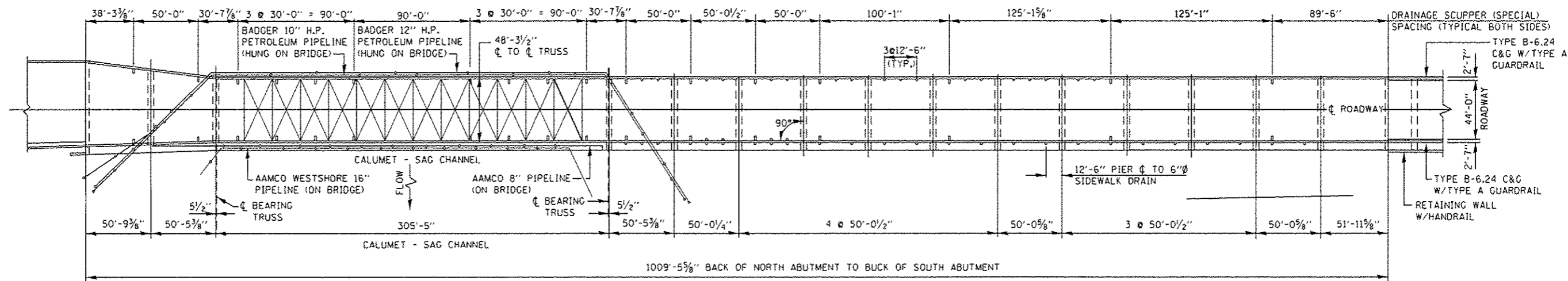
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PLOT SCALE * 1/8" = 1' / in.	DATE -	CHECKED -	REVISED -
PLOT DATE * 1/5/2017	DATE -	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

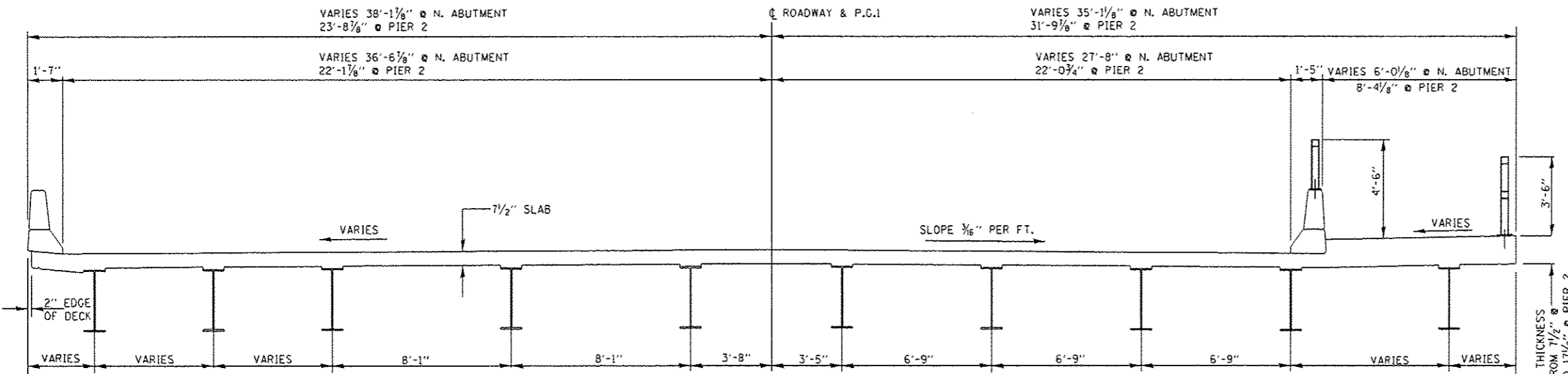
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				CONTRACT NO. 62031				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT								



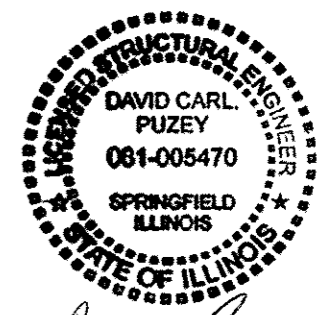
ELEVATION



PLAN

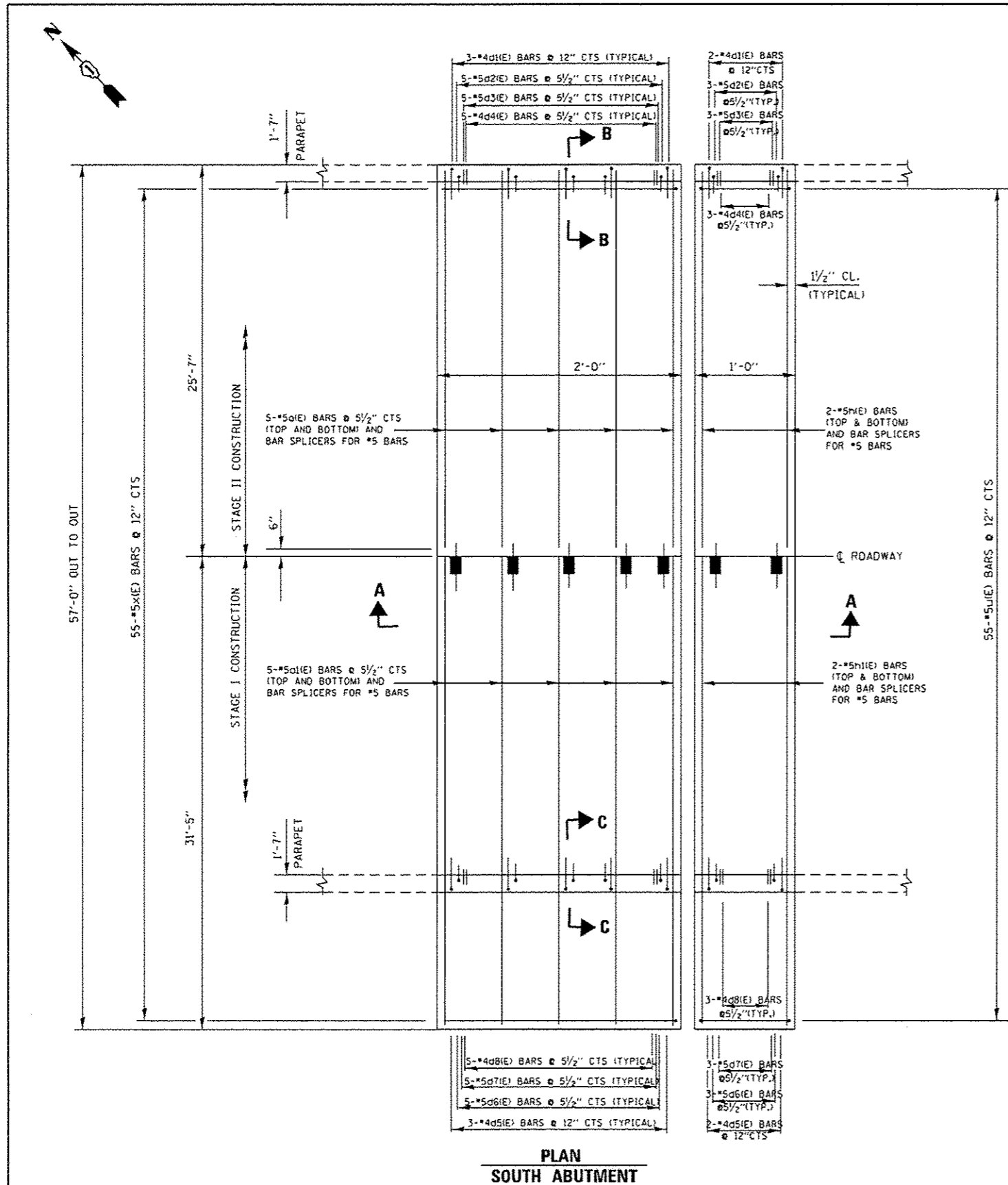


CROSS SECTION (LOOKING SOUTH)

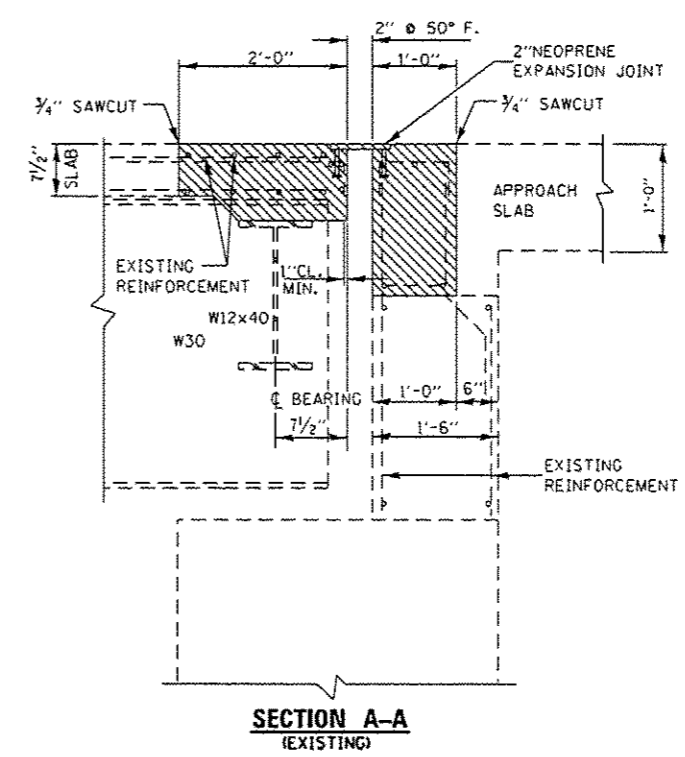


David Carl Puzey 1/29/17 Expires 1/30/18

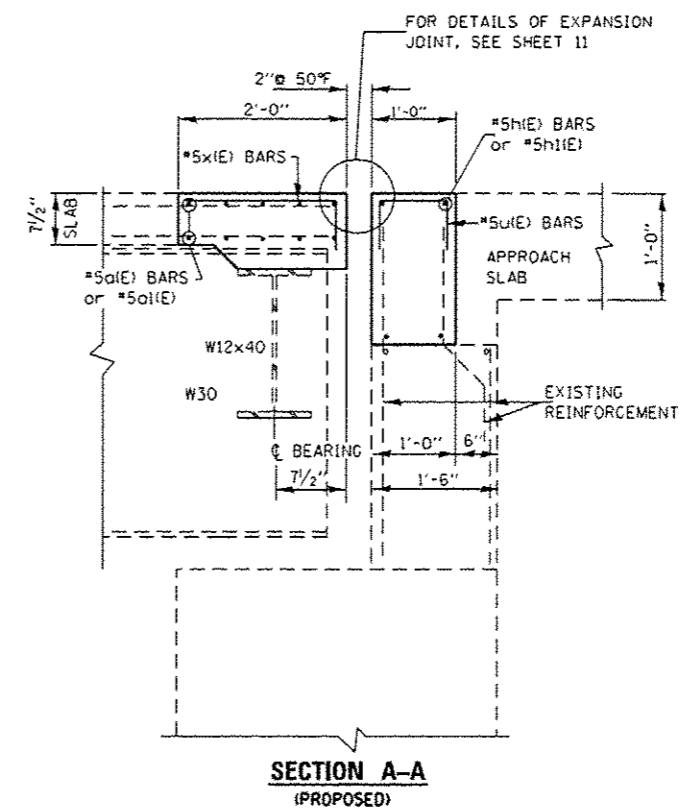
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Default	PLOT SCALE: 100.0000' / 1"	CHECKED: -	REVISED: -			SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.	CONTRACT NO. 62031	ILLINOIS FED. AID PROJECT				
Default	PLOT DATE: 1/19/2017	DATE: ECC	REVISED: -									



**PLAN
SOUTH ABUTMENT**



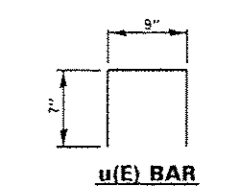
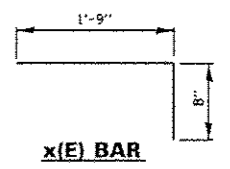
**SECTION A-A
(EXISTING)**



**SECTION A-A
(PROPOSED)**

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE	
a(E)	10	#5	25'-3"	—	
a1(E)	10	#5	31'-3"	—	
d1(E)	5	#5	3'-0"	L	
d2(E)	8	#4	3'-0"	L	
d3(E)	8	#5	2'-7"	L	
d4(E)	8	#4	4'-8"	L	
d5(E)	3	#5	3'-0"	L	
d6(E)	3	#4	3'-9"	L	
d7(E)	3	#5	2'-2"	L	
d8(E)	3	#4	2'-3"	L	
h(E)	4	#5	25'-3"	—	
h1(E)	4	#5	31'-3"	—	
u(E)	55	#5	1'-4"	□	
x(E)	55	#5	2'-5"	□	
REINFORCEMENT BARS (EPOXY COATED)				POUND	1147
CONCRETE REMOVAL				CU.YD.	6.4
CONCRETE SUPERSTRUCTURE				CU.YD.	6.4
BAR SPLICERS				EACH	14



LEGEND:
 HATCHED AREA INDICATES CONCRETE REMOVAL

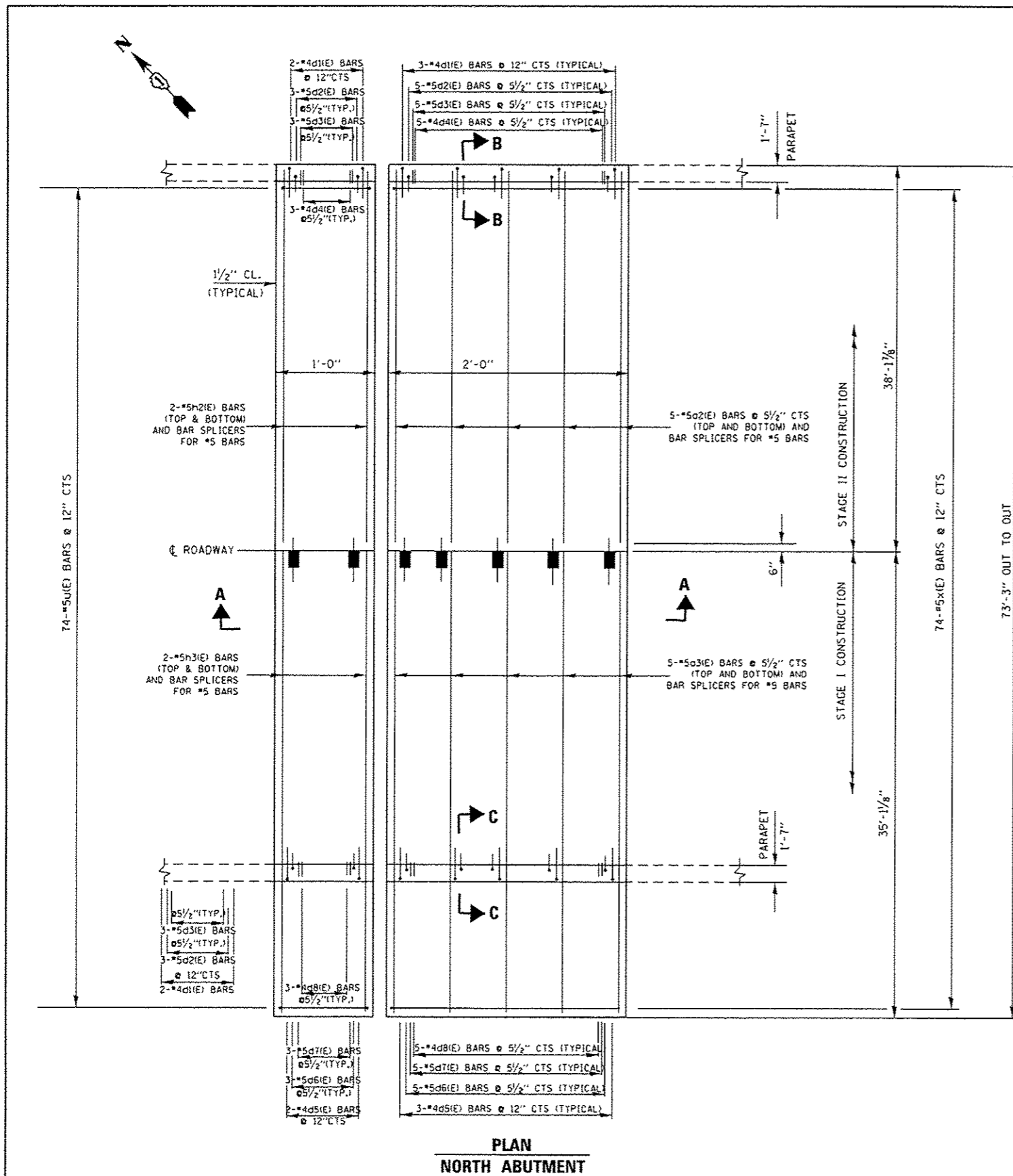
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PROJECT	PROJECT	PROJECT	PROJECT
DATE	DATE	DATE	DATE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

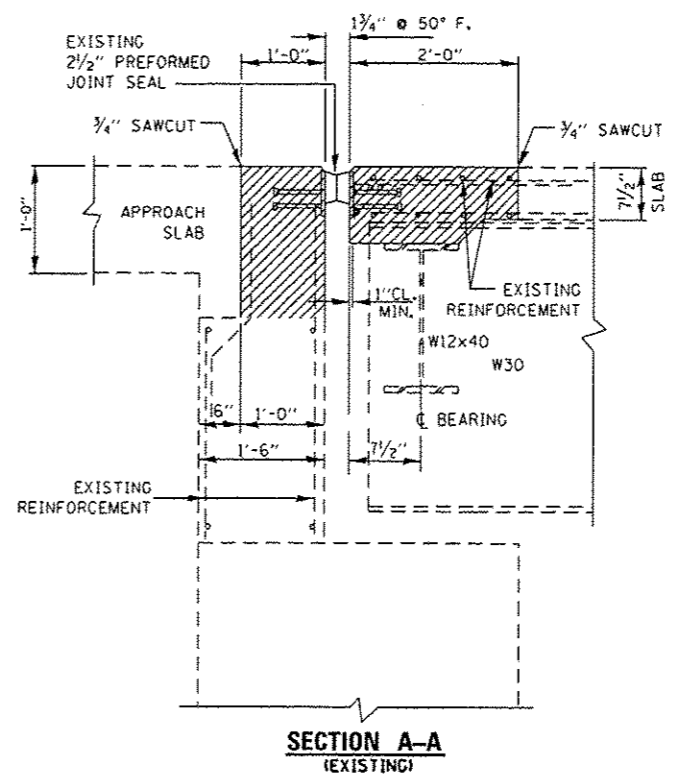
**ILL 83171 (ARCHER AVENUE) OVER CAL SAG CHANNEL
EXPANSION JOINTS AT SOUTH ABUTMENTS
S.N. 016-0427 AND 016-1022**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	6
CONTRACT NO. 62031				ILLINOIS FED. AID PROJECT

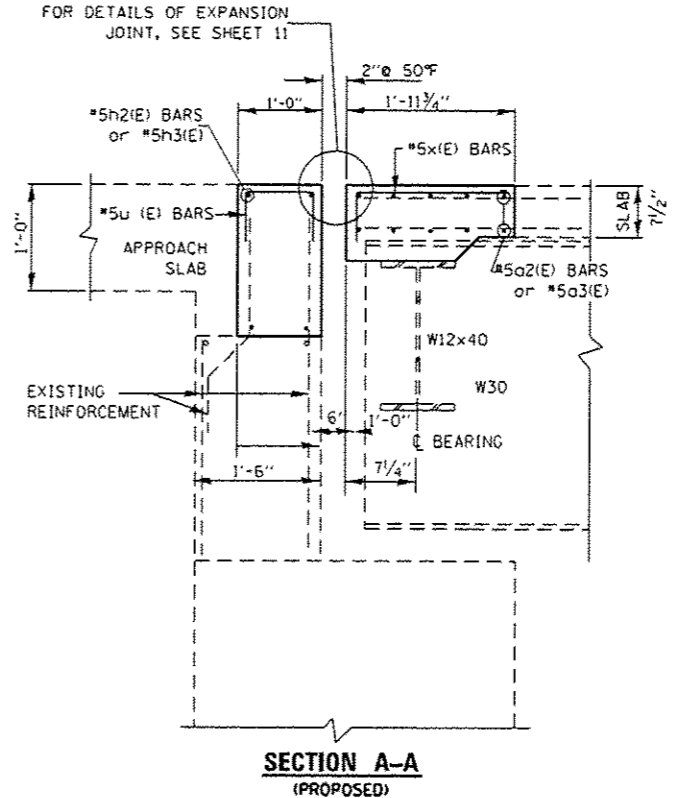
SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.



**PLAN
NORTH ABUTMENT**



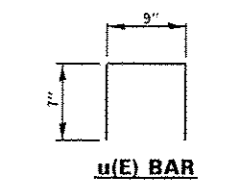
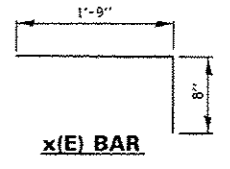
**SECTION A-A
(EXISTING)**



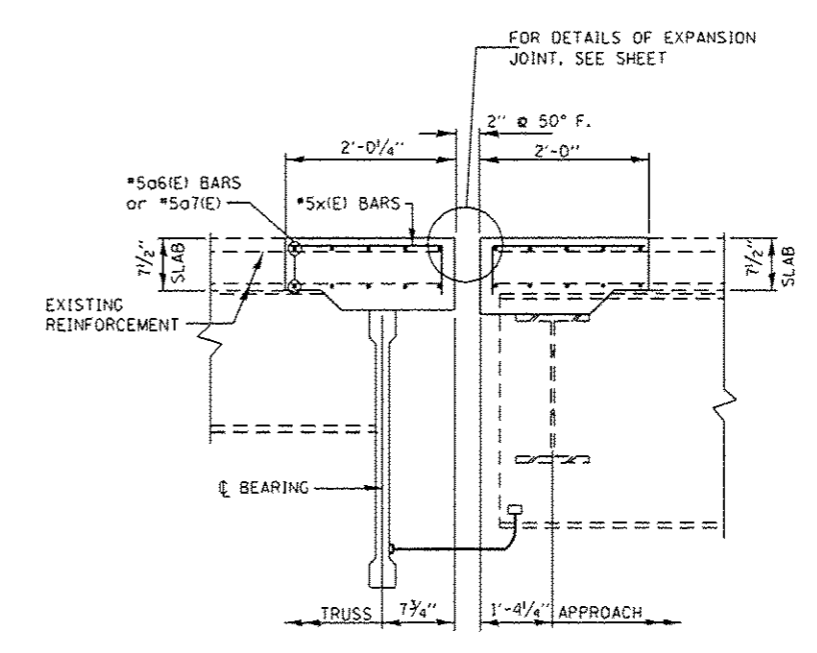
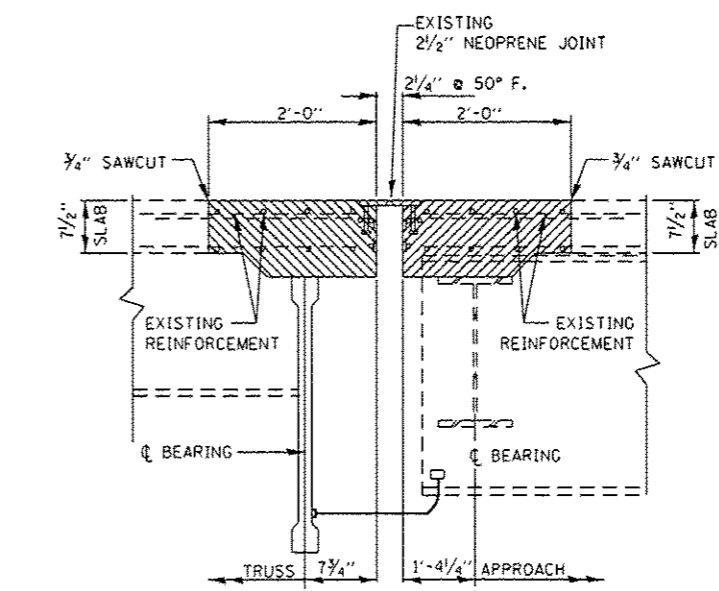
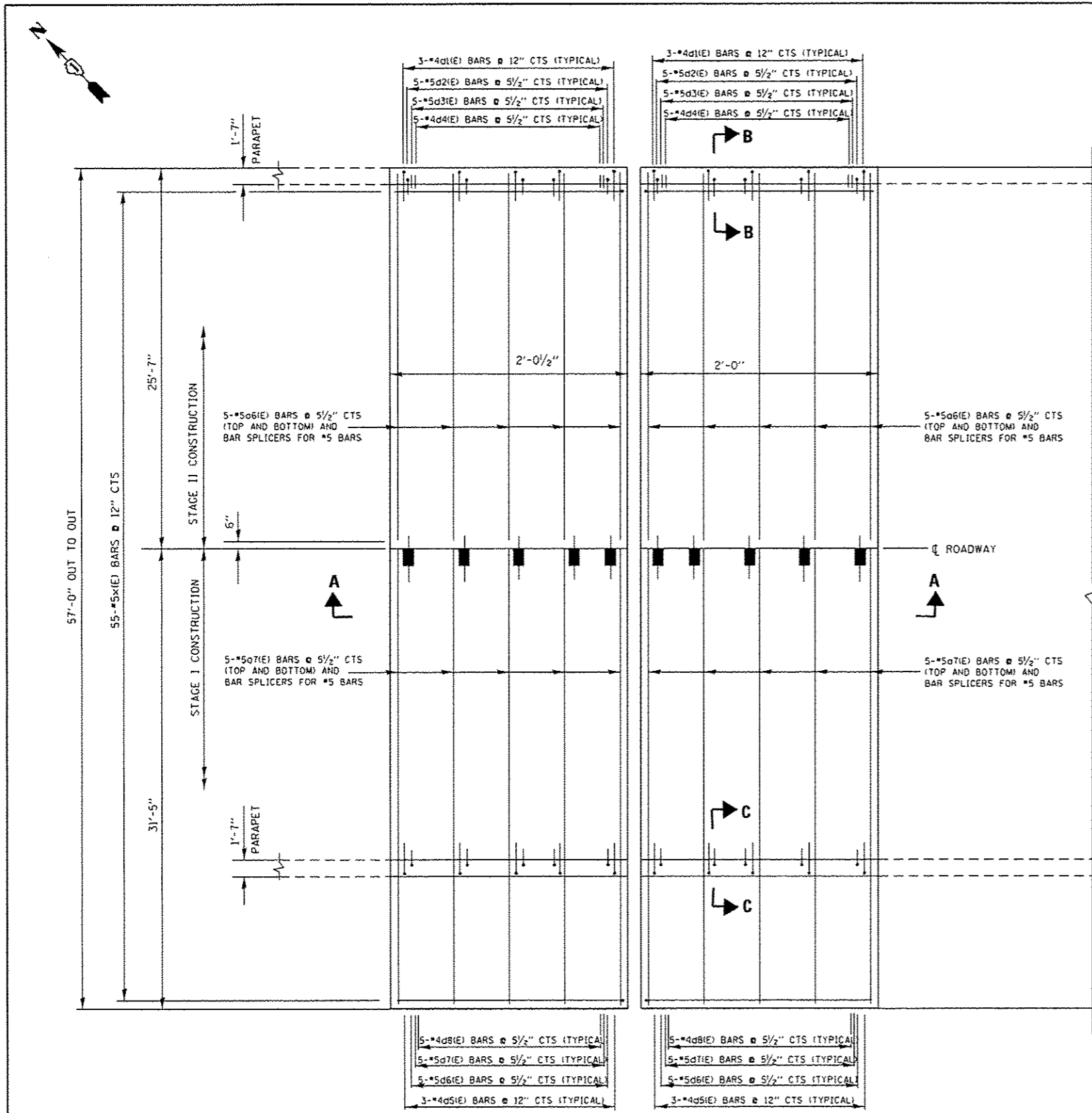
**SECTION A-A
(PROPOSED)**

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
g2(E)	10	#5	37'-6"	—
g3(E)	10	#5	34'-9"	—
d1(E)	5	#5	3'-0"	L
d2(E)	8	#4	3'-0"	L
d3(E)	8	#5	2'-7"	L
d4(E)	8	#4	4'-8"	L
d5(E)	3	#5	3'-0"	L
d6(E)	3	#4	3'-9"	L
d7(E)	3	#5	2'-2"	L
d8(E)	3	#4	2'-3"	L
h2(E)	4	#5	37'-6"	—
h3(E)	4	#5	34'-9"	—
u(E)	55	#5	1'-4"	□
x(E)	55	#5	2'-5"	□
REINFORCEMENT BARS (EPOXY COATED)		PDUND	1450	
CONCRETE REMOVAL		CU.YD.	8.3	
CONCRETE SUPERSTRUCTURE		CU.YD.	8.3	
BAR SPLICERS		EACH	14	

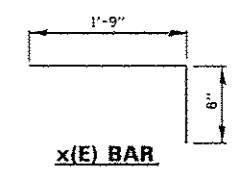


LEGEND:
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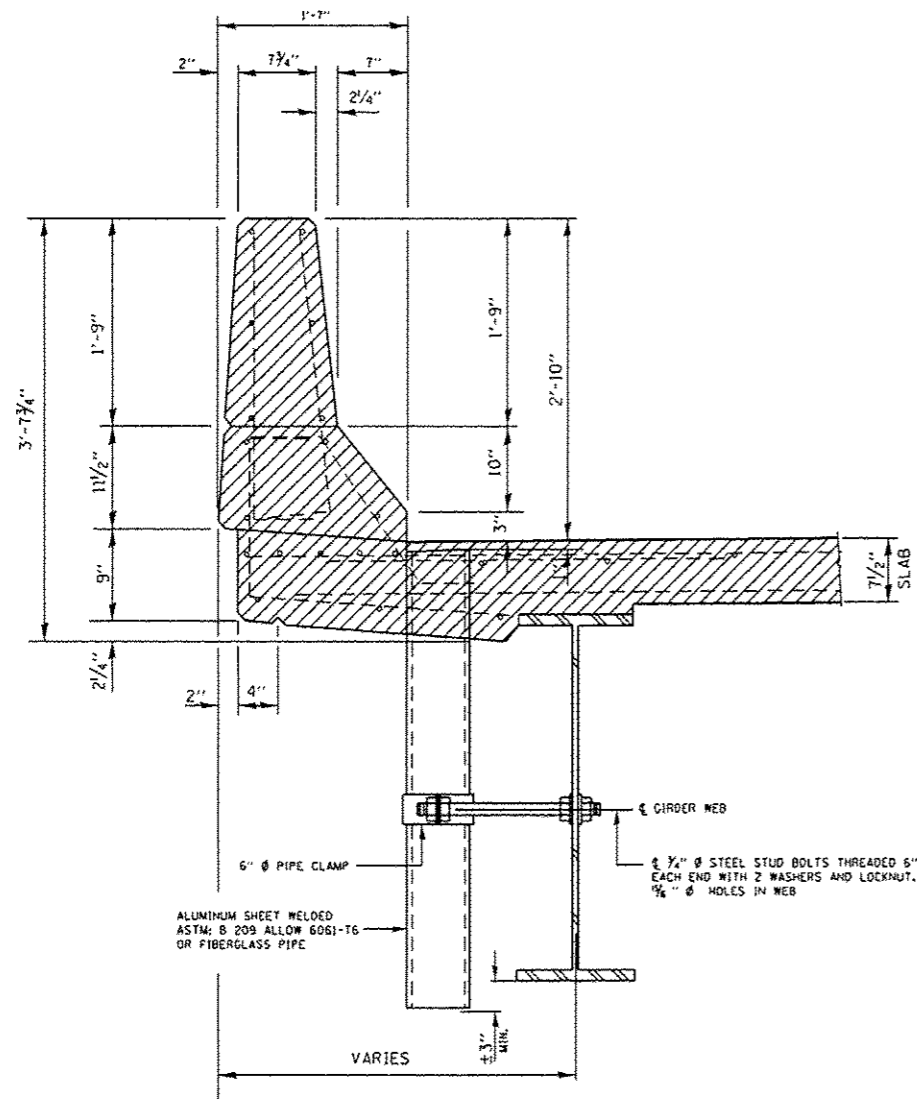


BILL OF MATERIALS

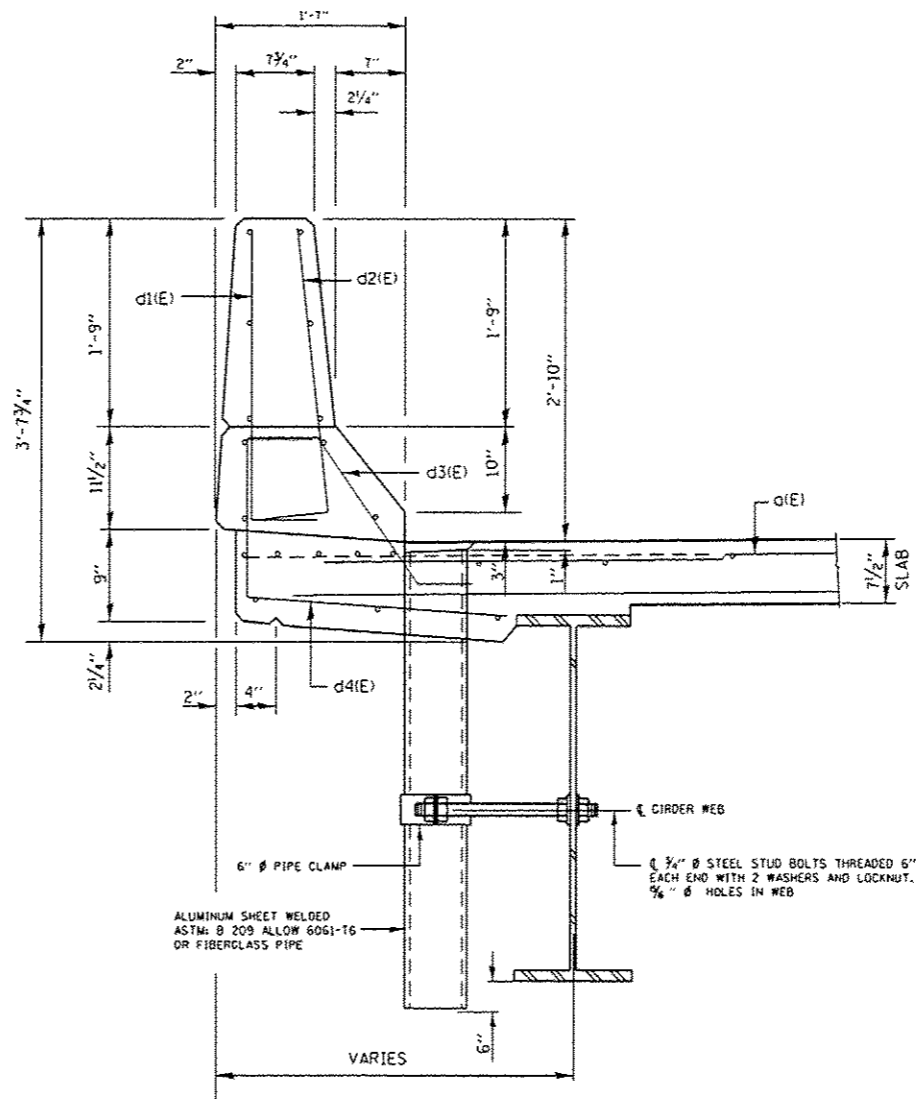
BAR	NO.	SIZE	LENGTH	SHAPE	
d6(E)	20	#5	25'-3"	—	
d7(E)	20	#5	31'-3"	—	
d1(E)	5	#5	3'-0"	L	
d2(E)	8	#4	3'-0"	L	
d3(E)	8	#5	2'-7"	L	
d4(E)	8	#4	4'-8"	L	
d5(E)	3	#5	3'-0"	L	
d6(E)	3	#4	3'-9"	L	
d7(E)	3	#5	2'-2"	L	
d8(E)	3	#4	2'-3"	L	
x(E)	110	#5	2'-5"	—	
REINFORCEMENT BARS (EPOXY COATED)				POUND	1364
CONCRETE REMOVAL				CU.YD.	7
CONCRETE SUPERSTRUCTURE				CU.YD.	7
BAR SPLICERS				EACH	40



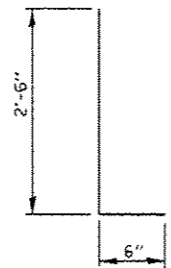
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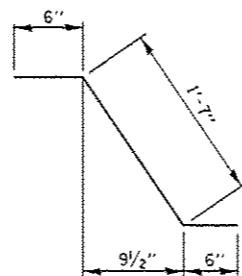
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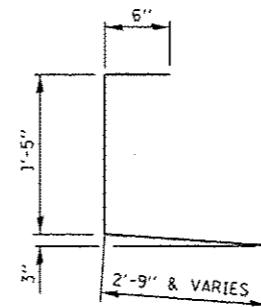
SECTION AT EAST PARAPET (PROPOSED)



d1(E) AND d2(E) BARS



d3(E) BAR

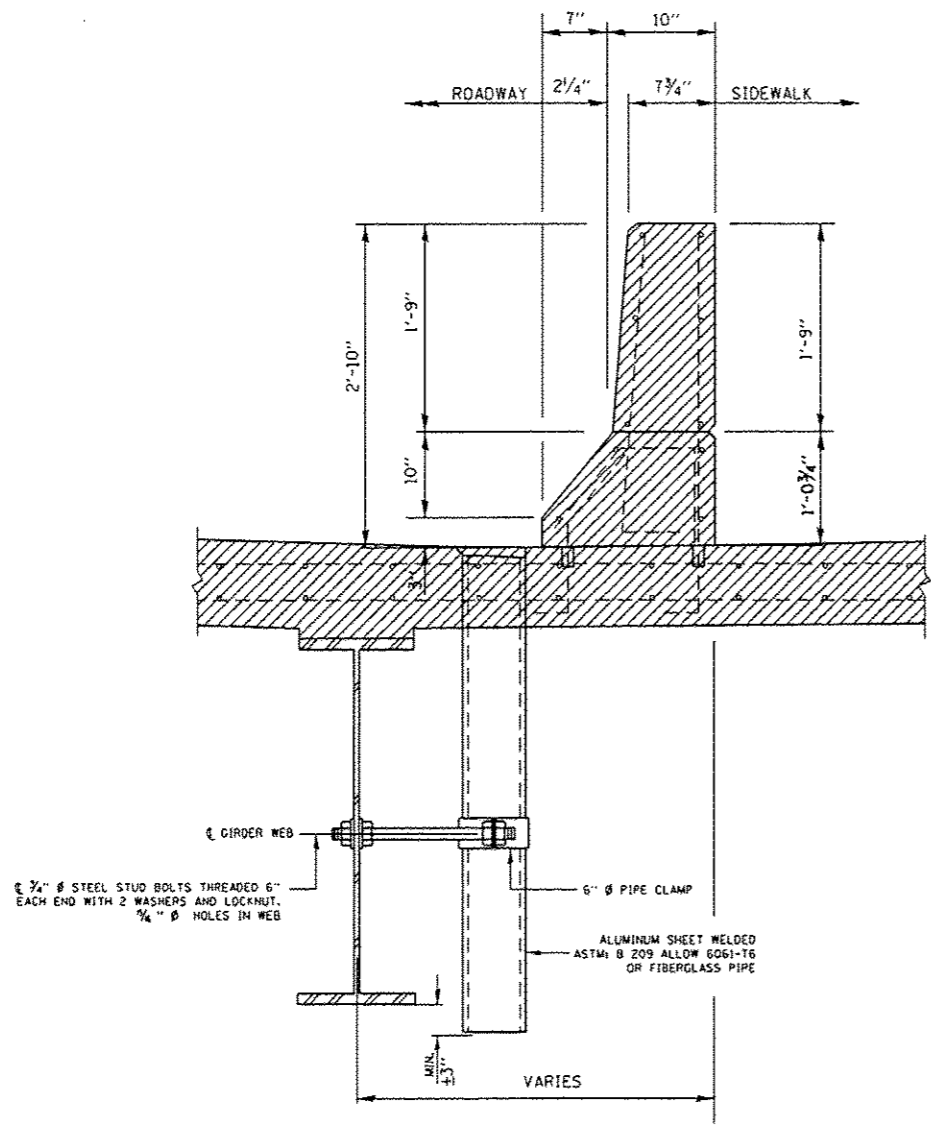


NOTE:
CUT TO FIT IN THE FIELD
d4(E) BAR

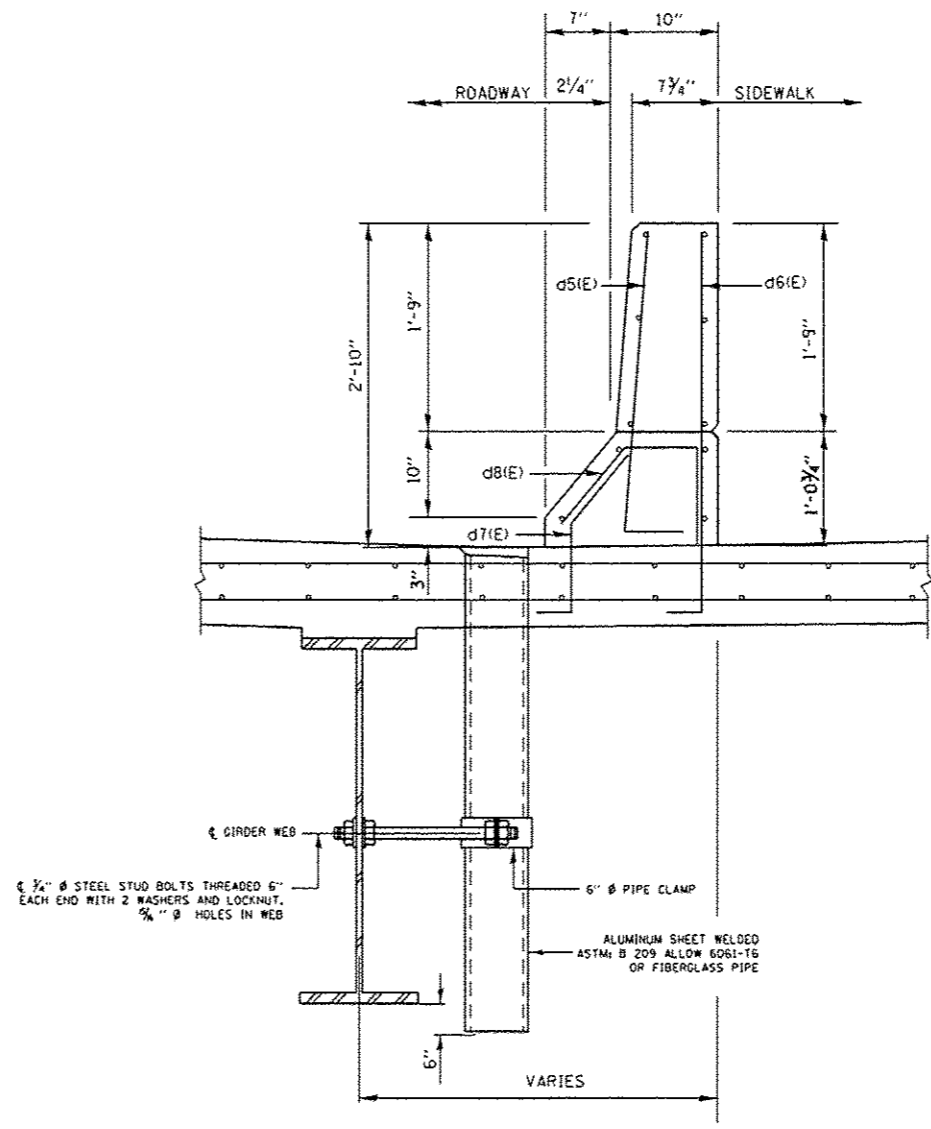
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HATCHED AREA INDICATES CONCRETE REMOVAL

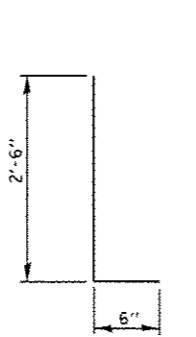
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PLOT SCALE: 100.0000 / 1 in.	PLOT DATE: 1/19/2017	CHECKED:	REVISIONS:			344	545B-BR	COOK	30	10
		DATE:	REVISIONS:			CONTRACT NO. 62031			ILLINOIS FED. AID PROJECT	
						SCALE:	SHEET 7 OF 10 SHEETS	STA.	TO STA.	



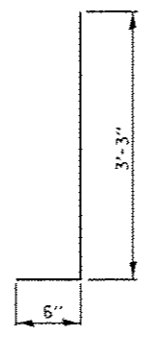
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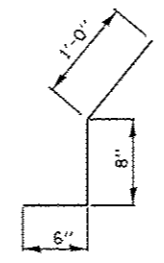
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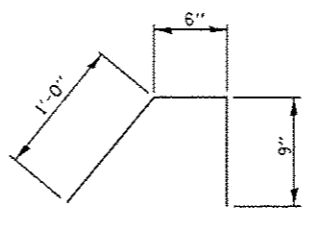
d5(E) BARS



d6(E) BARS



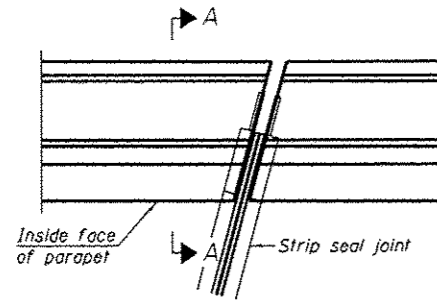
d7(E) BARS



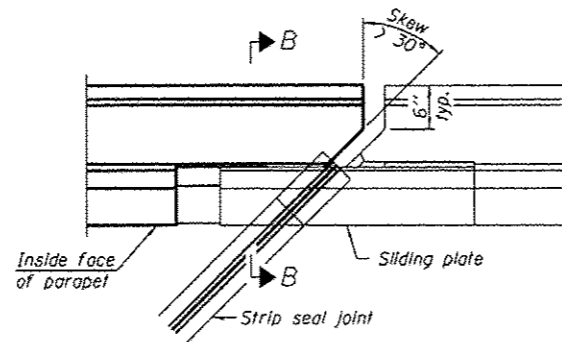
d8(E) BARS

LEGEND:
 HATCHED AREA INDICATES CONCRETE REMOVAL

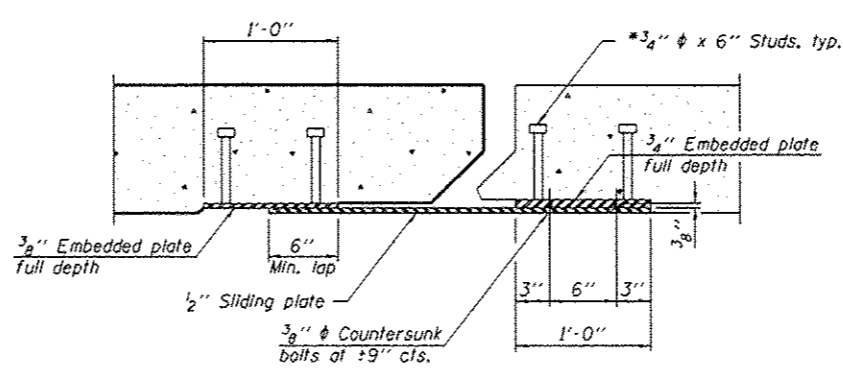
FILE NAME :	USER NAME : pyronowkirk	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILL 83171 (ARCHER AVENUE) OVER CAL SAG CHANNEL WEST PARAPET DETAILS S.N. 016-0427 AND 016-1022	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\1\004EB10INTEG.illinois.gov\VIDOT\Documents\DOT Offices\District 1\Projects\0146816\Design\0146816-sht-plan.dgn	PLLOT SCALE = 100,000 / 1"	CHECKED -	REVISED -			344	545B-BR	COOK	30	11	
Default	PLLOT DATE = 1/19/2017	DATE -	REVISED -			SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.		CONTRACT NO. 62031			
						ILLINOIS FED. AID PROJECT					



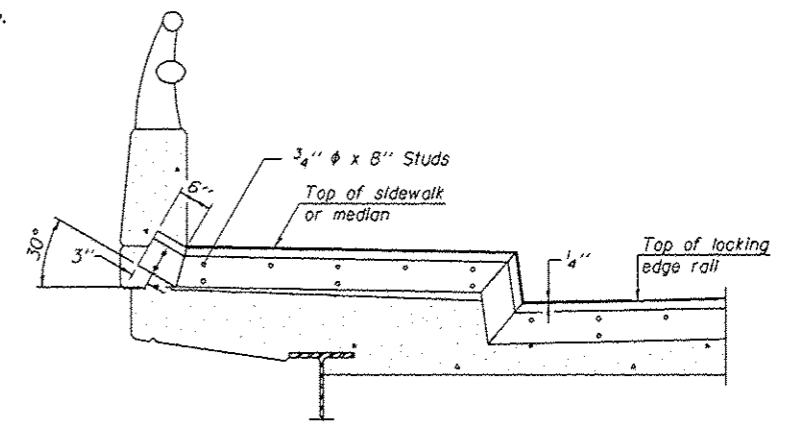
PLAN
(For skews $\le 30^\circ$)



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

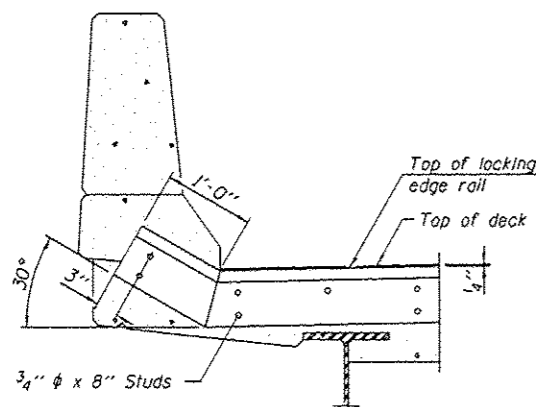


SECTION C-C

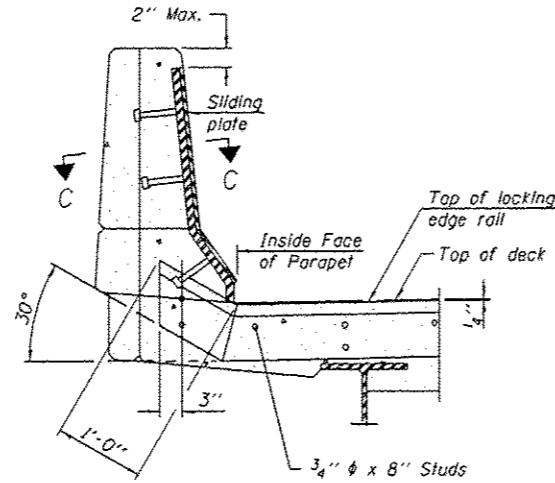


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

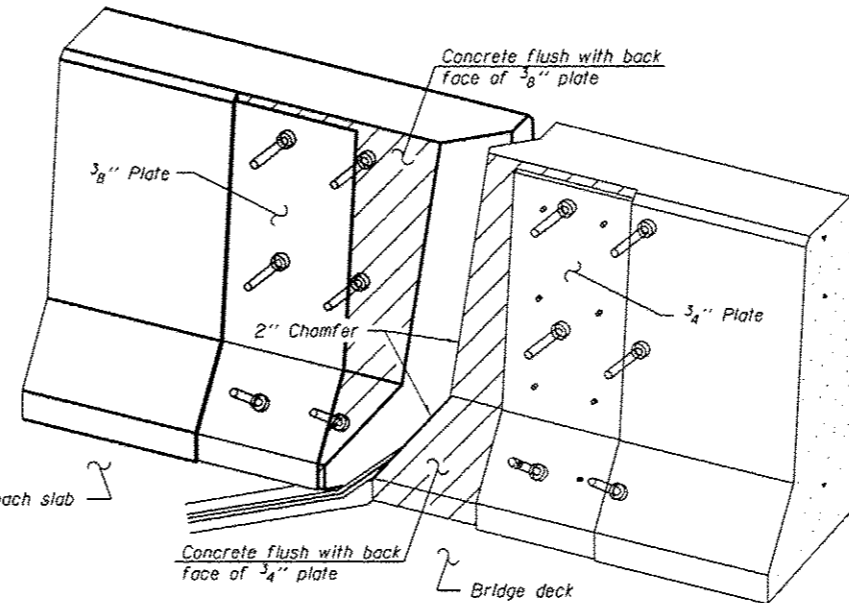
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A

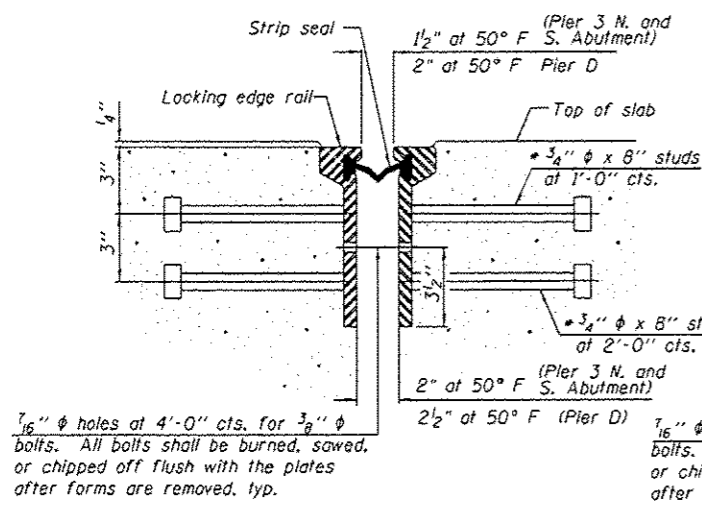


SECTION B-B

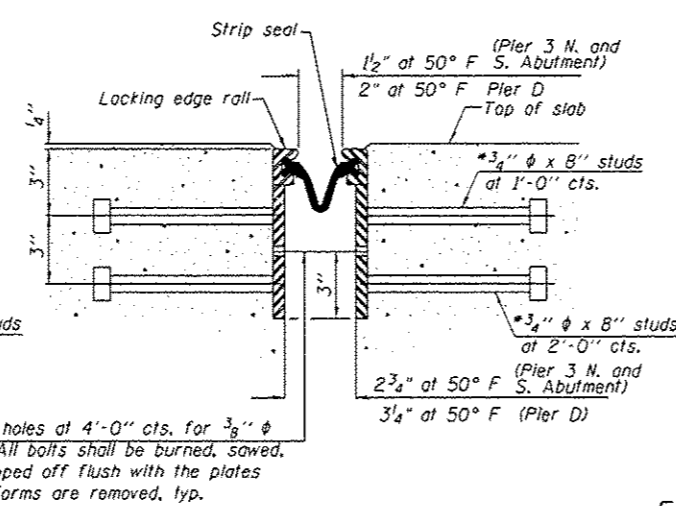


TRIMETRIC VIEW
(Showing back plates only)

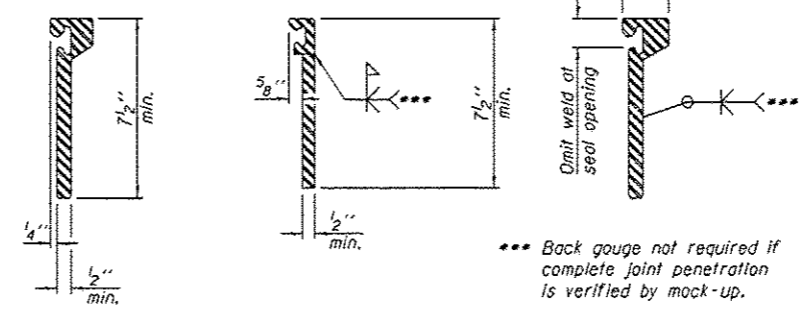
Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement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



ROLED EXTRUDED RAIL WELDED RAIL LOCKING EDGE RAIL SPLICE

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

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

1/16" 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.

1/16" 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.

EJ-SSJ

1-27-12

PREFORMED JOINT STRIP SEAL

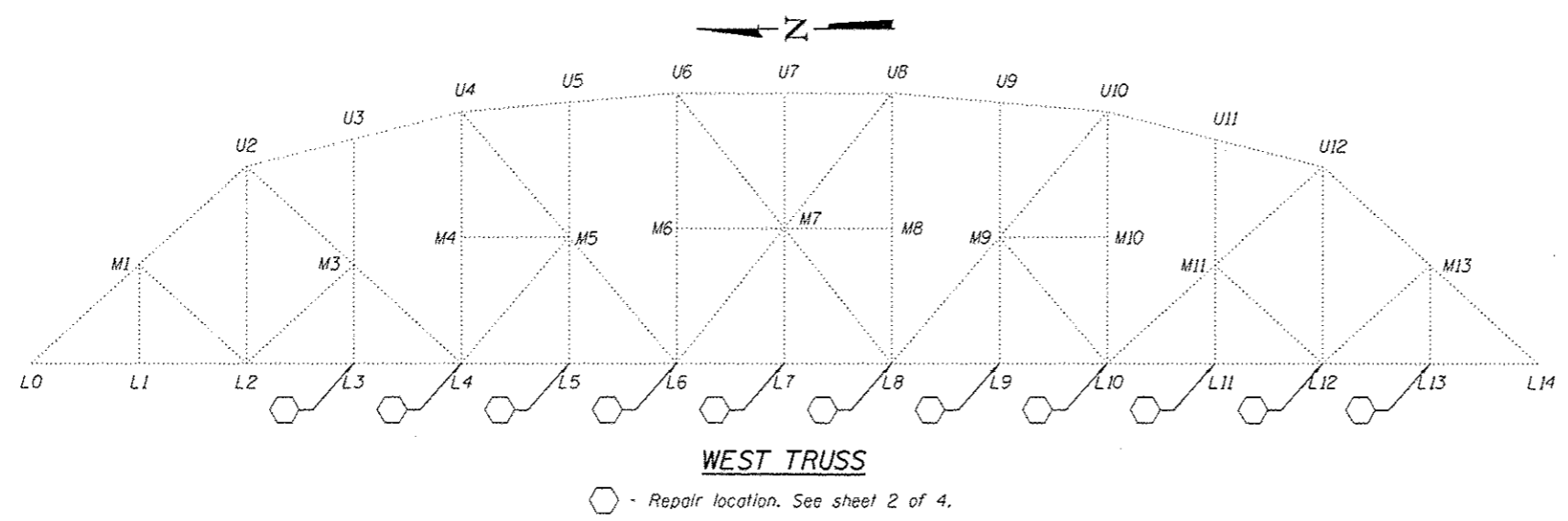
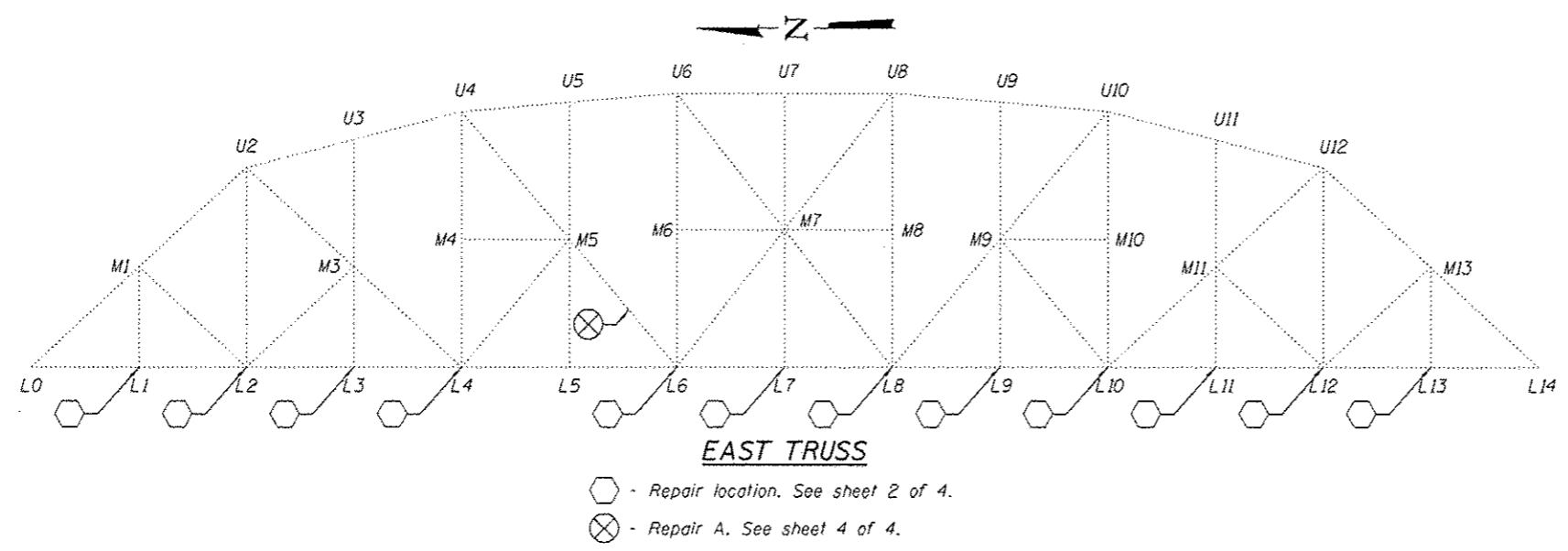
LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	249

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 Fasteners shall be high strength bolts. Bolts 7/8"φ, open holes 15/16"φ, 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.
 Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
 All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.



Expires 1/30/18

BILL OF MATERIAL

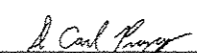
ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	3580

DESIGNED <i>Vicki H. Veltz</i>	DATE JANUARY 18, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELEVATIONS KINGERY AVE. OVER CAL SAG CHANNEL SN 016-0427	F.A.P. RTE. 344	SECTION 545B-BR	COUNTY COOK	TOTAL SHEETS 30	SHEET NO. 14
CHECKED <i>[Signature]</i>	REVISOR	SHEET NO. 1 OF 4 SHEETS		CONTRACT NO. 62031		ILLINOIS FED. AID PROJECT		
DRAWN <i>boliva</i>	REVISOR	ENGINEER OF BRIDGES AND STRUCTURES						
CHECKED <i>VKV</i>	REVISOR							

East Truss			
Truss Member	Angle	Repair Plate Length (L)	Distance Y (Top of Gusset \bar{c} to \bar{c} Repair \bar{c})
M1L1	NW	4'-6"	1'-3"
	SE	3'-0"	2'-0"
	SW	4'-6"	1'-3"
U2L2	NW	4'-0"	6"
	SW	4'-0"	6"
U3L3	NE	3'-0"	0"
	NW	5'-0"	1'-0"
	SE	3'-0"	0"
	SW	5'-0"	1'-0"
U4L4	NE	3'-0"	0"
	NW	5'-6"	1'-4"
	SE	3'-0"	0"
U6L6	SW	5'-6"	1'-4"
	NE	3'-0"	0"
	NW	5'-6"	1'-3"
U7L7	SE	3'-0"	0"
	SW	5'-6"	1'-3"
	NW	5'-0"	1'-0"
U8L8	SE	3'-0"	1'-4"
	SW	5'-0"	1'-0"
	NE	3'-0"	0"
U9L9	NW	5'-6"	1'-3"
	SE	3'-0"	0"
	SW	5'-6"	1'-3"
U10L10	NE	3'-0"	2'-0"
	NW	5'-6"	1'-0"
	SE	3'-0"	2'-0"
	SW	5'-6"	1'-0"
U11L11	NE	3'-0"	0"
	NW	5'-0"	1'-10"
	SE	3'-0"	0"
U12L12	SW	5'-0"	1'-10"
	NW	4'-0"	6"
M13L13	SW	4'-0"	6"
	NW	5'-0"	1'-6"
	SE	3'-0"	2'-0"
	SW	5'-0"	1'-6"

West Truss			
Truss Member	Angle	Repair Plate Length (L)	Distance Y (Top of Gusset \bar{c} to \bar{c} Repair \bar{c})
U2L2	NE	3'-0"	8"
	SE	3'-0"	8"
U3L3	NE	3'-0"	2'-0"
	SE	3'-0"	2'-0"
U4L4	NE	6'-0"	1'-0"
	NW	4'-0"	0"
	SE	6'-0"	1'-0"
U5L5	SW	4'-0"	0"
	NE	3'-0"	2'-0"
	SE	3'-0"	2'-0"
U6L6	NE	6'-0"	1'-6"
	NW	3'-0"	0"
	SE	6'-0"	1'-6"
U7L7	SW	3'-0"	0"
	NE	6'-6"	1'-0"
	SE	3'-0"	1'-1"
U8L8	NE	5'-6"	1'-3"
	NW	3'-0"	0"
	SE	5'-6"	1'-3"
U9L9	SW	3'-0"	0"
	NE	5'-0"	0"
	NW	3'-0"	0"
U10L10	SE	5'-0"	0"
	SW	3'-0"	0"
	NE	6'-0"	1'-6"
U11L11	NW	3'-0"	0"
	SE	6'-0"	1'-6"
	SW	3'-0"	0"
U12L12	NE	3'-0"	2'-0"
	SE	3'-0"	2'-0"
M13L13	NE	4'-0"	6"
	SE	4'-0"	6"
	NE	5'-0"	0"
	SE	5'-0"	0"

DESIGNED VHV
 CHECKED DAB
 DRAWN *baliva*
 CHECKED VHV DAB

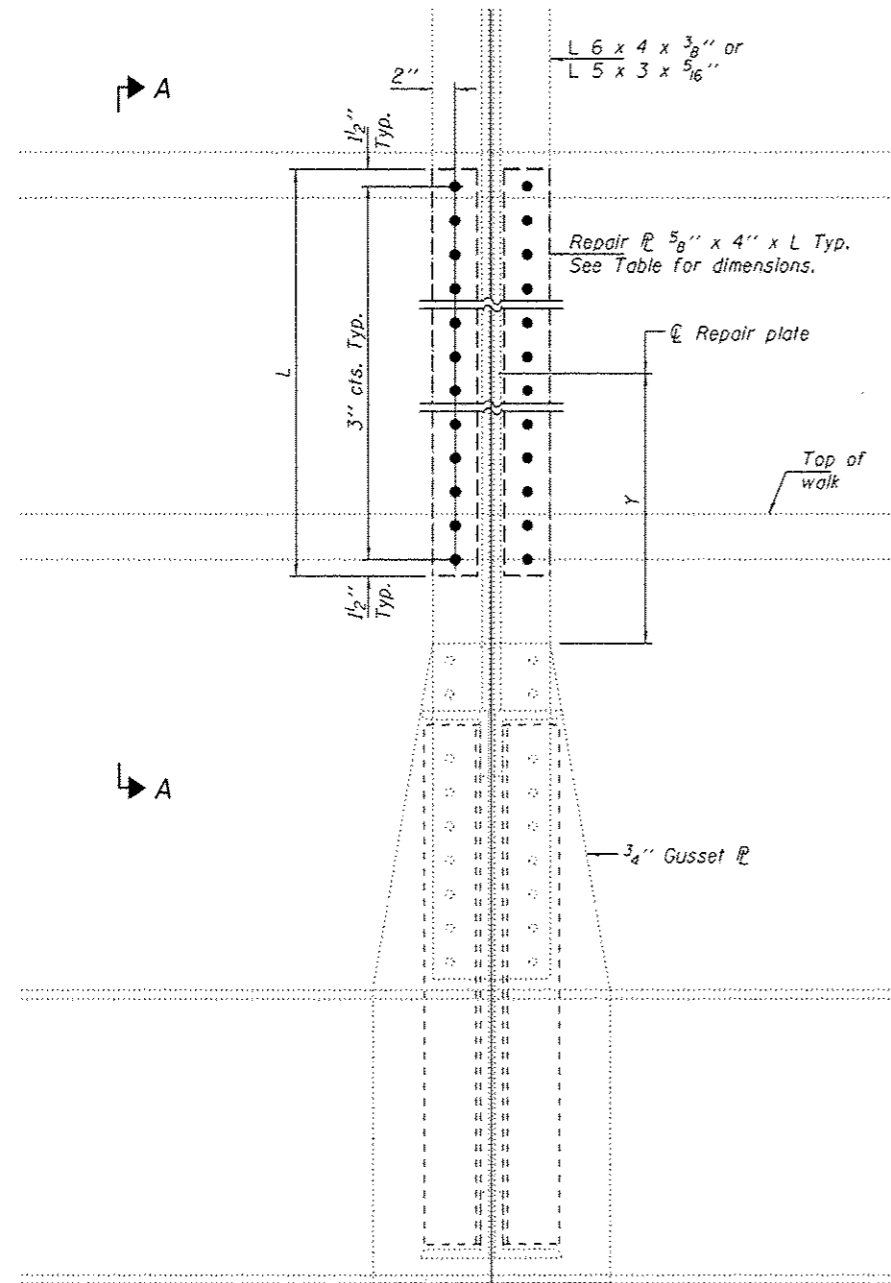
PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE JANUARY 18, 2017
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

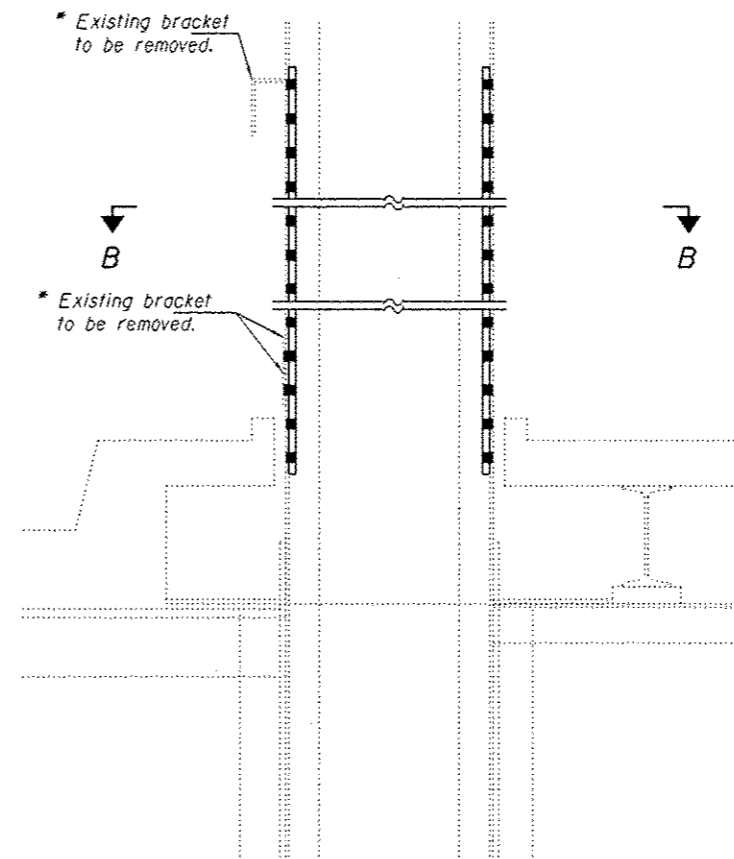
SCOPE OF WORK
 SN 016-0427
 SHEET NO. 2 OF 4 SHEETS

F.A.P. RTE. 344	SECTION 5458-BR	COUNTY COOK	TOTAL SHEETS 30	SHEET NO. 15
CONTRACT NO. 62031				ILLINOIS FED. AID PROJECT

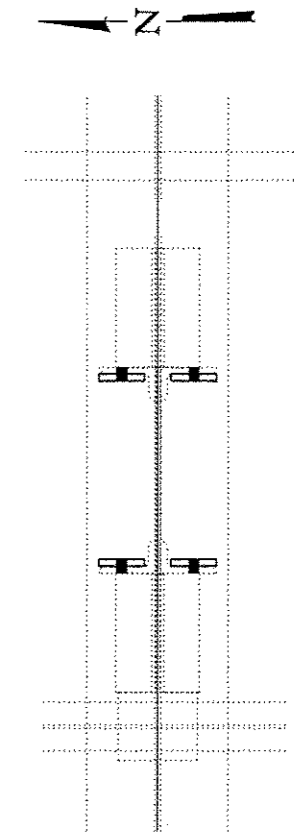


ELEVATION

(Repair when repair plates are above gusset plates.)



SECTION A-A



SECTION B-B

Repair plate orientation.
See Table for actual repair locations.


- - Field drill using new plates as template.
- - Use existing holes as template

* All abandoned existing rail brackets on entire truss to be removed, the remaining steel shall be cleaned and painted as specified in the General Notes on sheet 1 of 4 and all holes to be filled with 3/4" φ HS bolts. Cost included with Structural Steel Repair.

For dimensions not shown, see table on sheet 2 of 4.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.

DESIGNED	VHV
CHECKED	DAB
DRAWN	baliva
CHECKED	VHV DAB

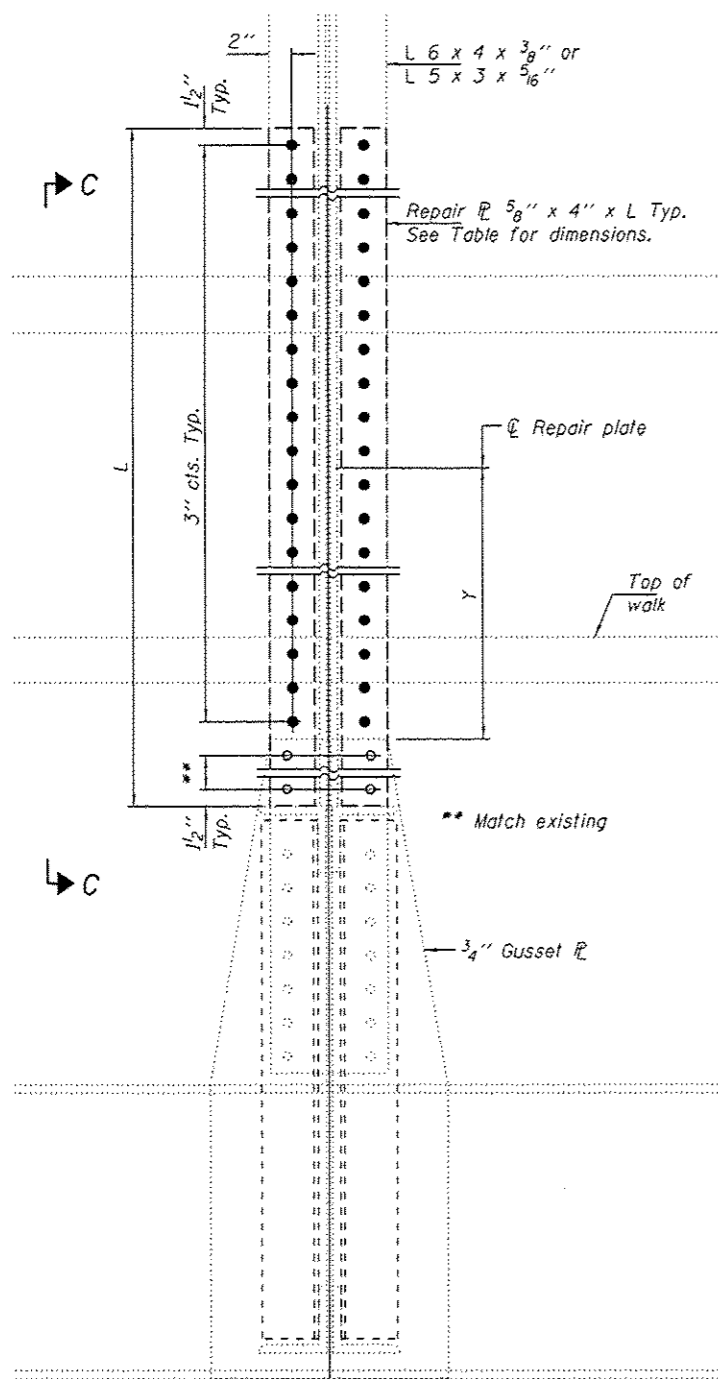
PASSED		DATE	JANUARY 18, 2017
		REVISOR	
		REVISION	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 016-0427

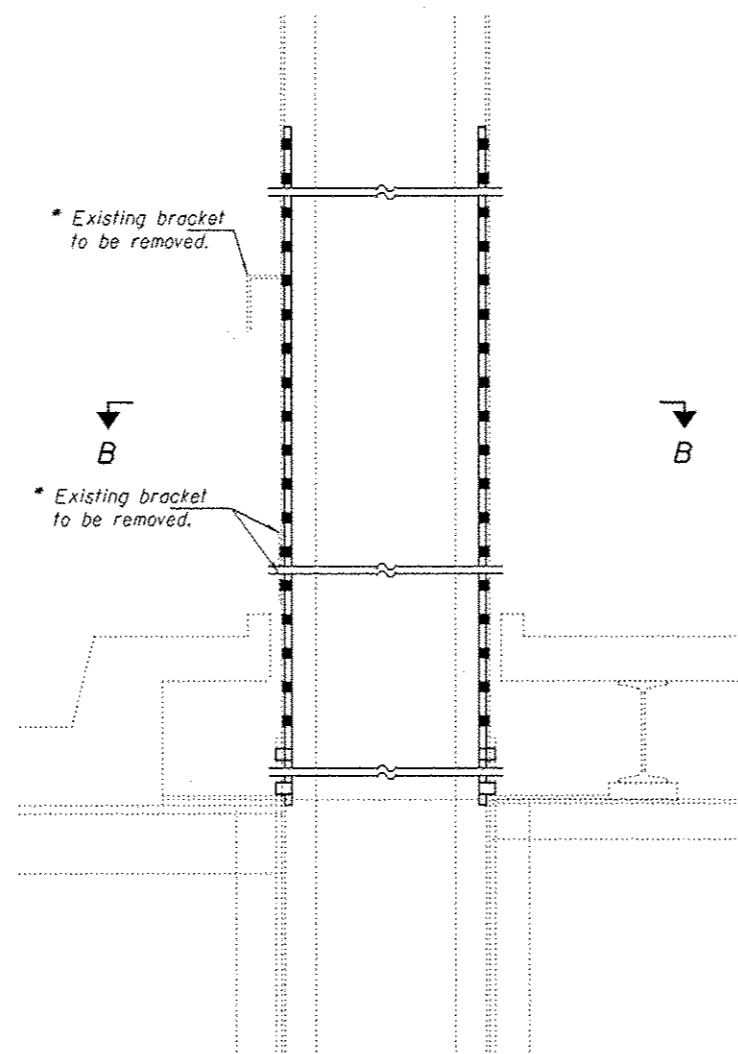
SHEET NO. 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	S-68-BR	COOK	30	16
CONTRACT NO. 62B31				
ILLINOIS FED. AID PROJECT				



ELEVATION

(Repair when repair plates extend below top of gusset plates.)

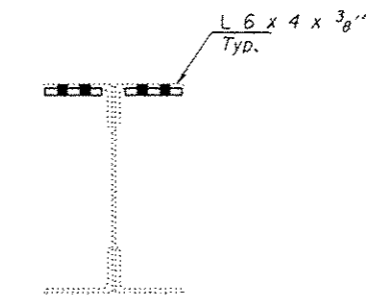


SECTION C-C

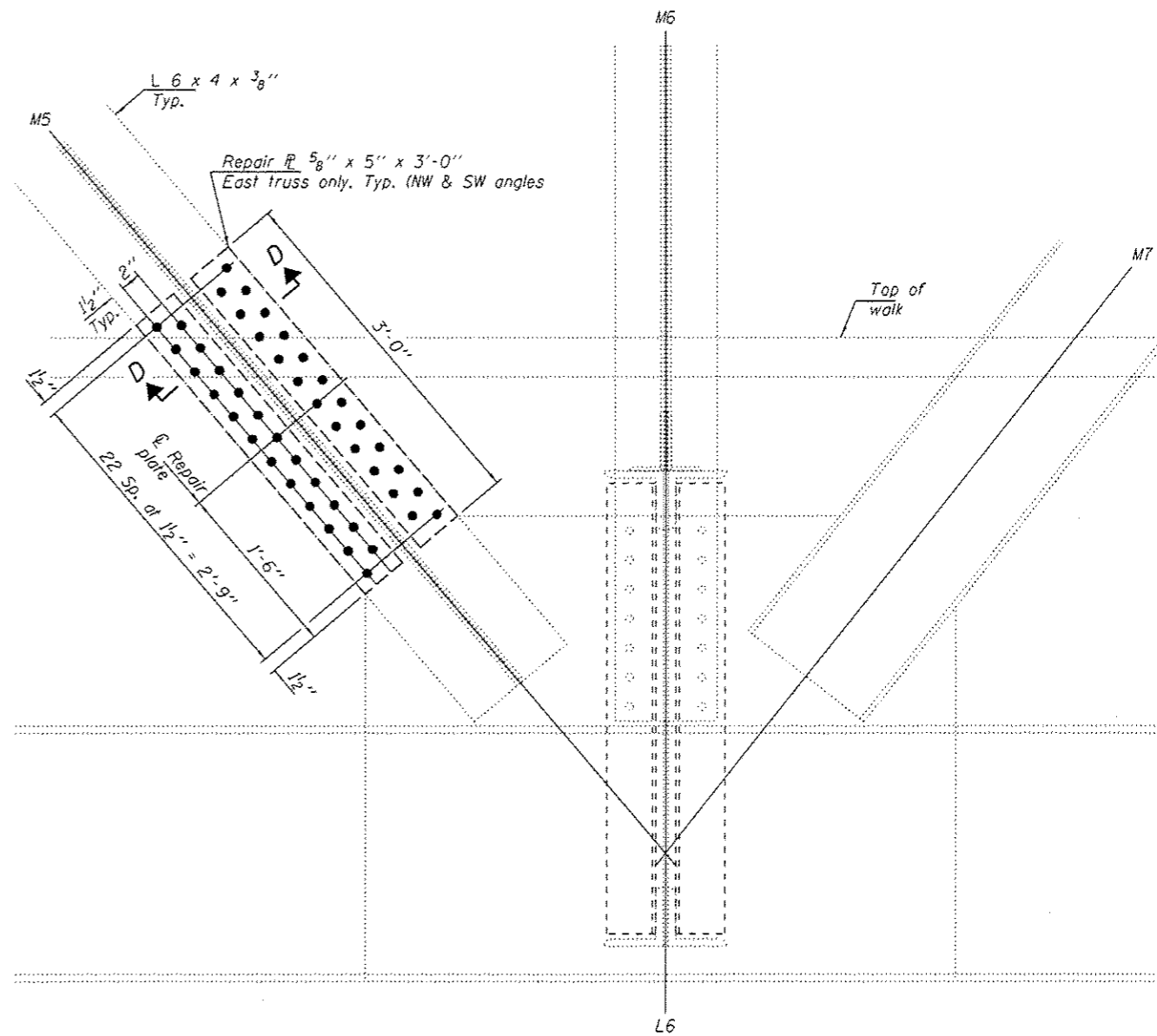
- - Field drill using new plates as template.
- - Use existing holes as template

* All abandoned existing rail brackets on entire truss to be removed, the remaining steel shall be cleaned and painted as specified in the General Notes on sheet 1 of 4 and all holes to be filled with 3/4" HS bolts. Cost included with Structural Steel Repair.

For dimensions not shown, see table on sheet 2 of 4.
For Sec. B-B, see sheet 3 of 4.



SECTION D-D



REPAIR A

DESIGNED *VHV*
CHECKED *DAB*
DRAWN *baliva*
CHECKED *VHV DAB*

PASSED
Carl Perry
ENGINEER OF BRIDGES AND STRUCTURES

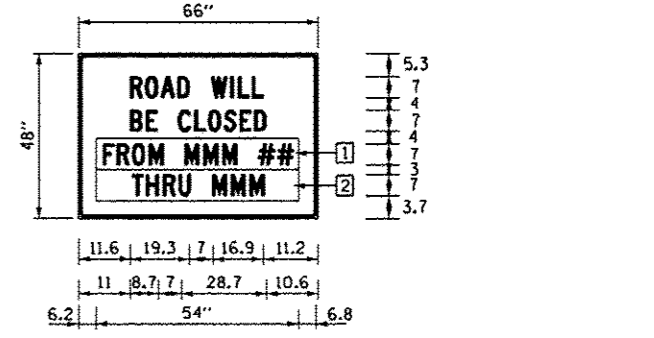
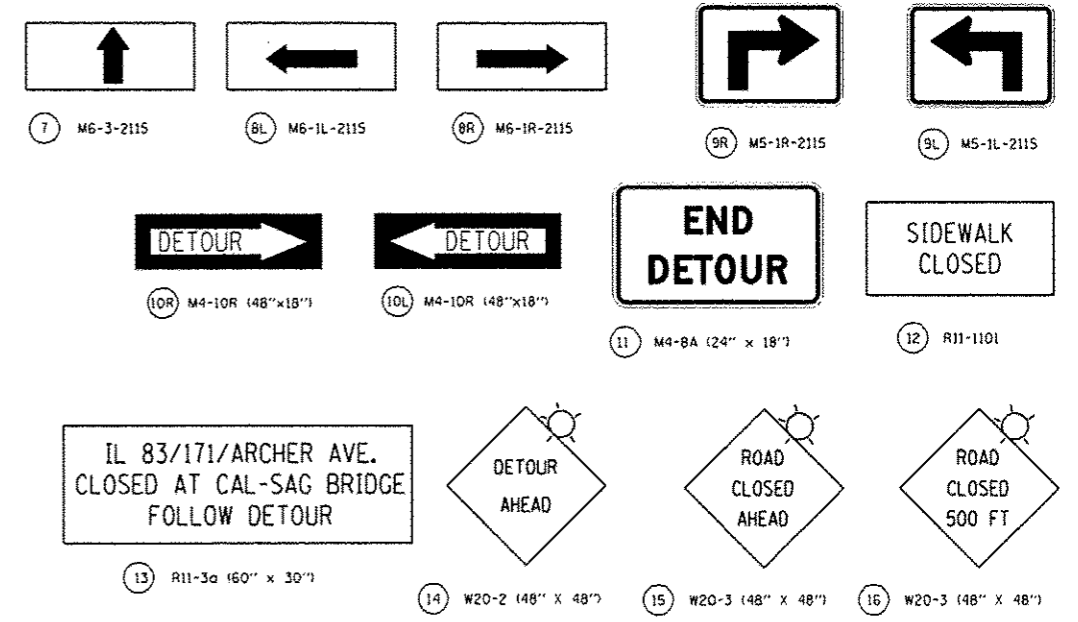
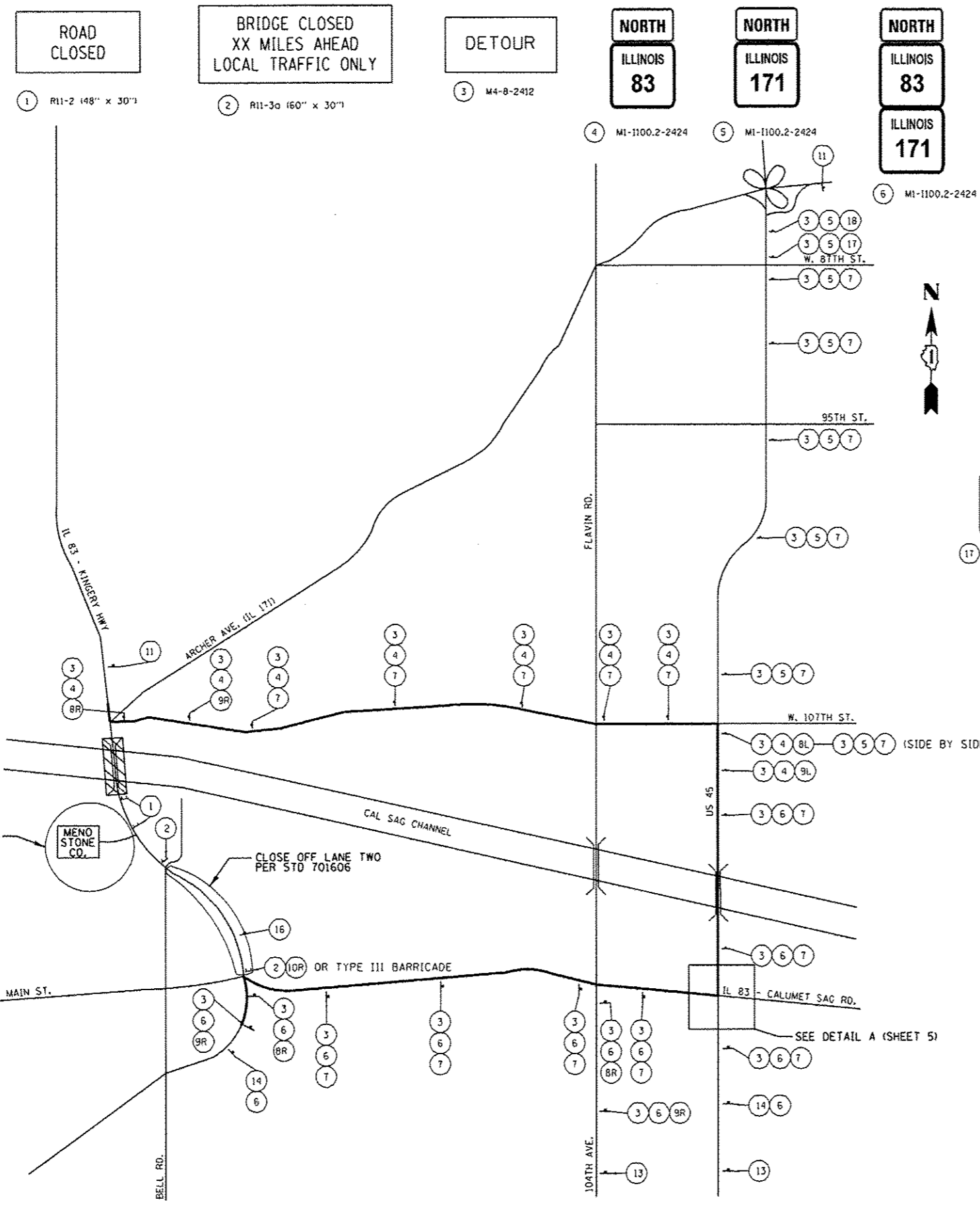
DATE JANUARY 18, 2017
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 016-0427

SHEET NO. 4 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	17
CONTRACT NO. 62031				ILLINOIS FED. AID PROJECT



ARTERIAL ROAD INFORMATION SIGN FOR ROADS TO BE FULLY CLOSED AND DETOURED
6'R, 1.3" BORDER, BLACK ON ORANGE

ARTERIAL ROAD INFORMATION SIGN NOTES:

- SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ONE SIGN ASSEMBLY EQUALS 27.3 SO FT.
- OVERLAY PANELS SHALL BE "HIGHWAY C" FONT
- OVERLAY PANEL 1 TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION
- OVERLAY PANEL 2 TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR. OMIT THE DATE ON PANEL; MONTH ONLY.
- ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS 1 AND 2 IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.

NOTE:

- PLACEMENT AND SPACING OF SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH TC-21 (DETOUR SIGNING FOR CLOSING STATE HIGHWAYS).
- THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND SIGNS SHALL BE INCLUDED IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- TEMPORARY INFORMATION SIGNING SHALL BE PLACED AT EACH END OF IL 83/171 (ARCHER AVE.) FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL DEVELOP AND MAINTAIN APPROPRIATE SIGNAL TIMINGS FOR THE FOLLOWING INTERSECTIONS, OR AS DIRECTED BY THE ENGINEER
 - A) CAL SAG RD. / 104TH ST.
 - B) CAL SAG RD. / US 45
 - C) US 45 / 107TH ST.
 - D) FLAVIN RD. / 107TH ST.
 - E) CAL SAG RD. / IL 83/171 (ARCHER AVE.)
 - F) 107TH ST. / IL 83/171 (ARCHER AVE.)
- COVER ALL EXISTING TRAILBLAZERS WITHIN THE DETOUR ROUTE THAT CONFLICTS WITH THE DETOUR SIGNING.

LEGEND:
 DETOUR ROUTE
 CONSTRUCTION ZONE
 TYPE III BARRICADE
 AMBER FLASHING LIGHT

FILE NAME: p:\11\08468IDINTEG.illinois.gov\11007-00	USER NAME: pyzengskrb	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN		F.A.P. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
					IL 171 / 83 (ARCHER AVE.) OVER CAL SAG CHANNEL (SN 016-0427)		344	545B-BR	COOK	30	18
					SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.		CONTRACT NO. 62D31				
					ILLINOIS FED. AID PROJECT						

ROAD CLOSED (1) R11-2 (48" x 30")

BRIDGE CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY (2) R11-3a (60" x 30")

DETOUR (3) M4-8-2412

NORTH ILLINOIS 83 (4) M1-1100.2-2424

NORTH ILLINOIS 171 (5) M1-1100.2-2424

NORTH ILLINOIS 83 ILLINOIS 171 (6) M1-1100.2-2424

M6-3-2115 (7)

M6-IL-2115 (8L)

M6-1R-2115 (8R)

M5-1R-2115 (9R)

M5-1L-2115 (9L)



DETAIL A

DETOUR (10R) M4-10R (48" x 18")

DETOUR (10L) M4-10L (48" x 18")

END DETOUR (11) M4-8A (24" x 18")

SIDEWALK CLOSED (12) R11-1101

IL 83/171/ARCHER AVE. CLOSED AT CAL-SAG BRIDGE FOLLOW DETOUR (13) R11-3a (60" x 30")

DETOUR AHEAD (14) W20-2 (48" x 48")

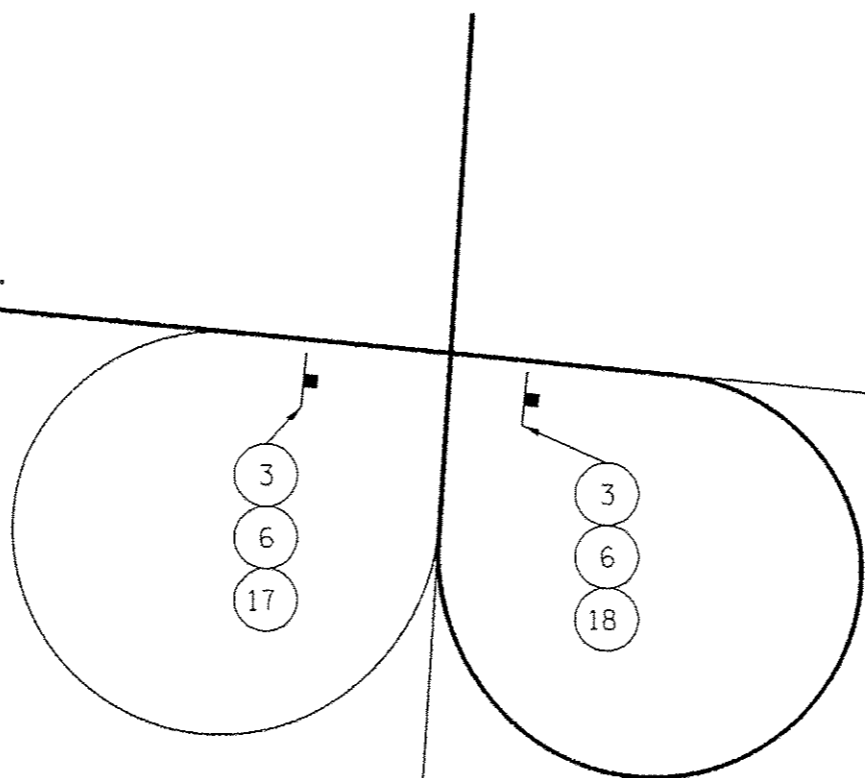
ROAD CLOSED AHEAD (15) W20-3 (48" x 48")

ROAD CLOSED 500 FT (16) W20-3 (48" x 48")

M5-2R-2115 (17)

M6-2-2115 (18)

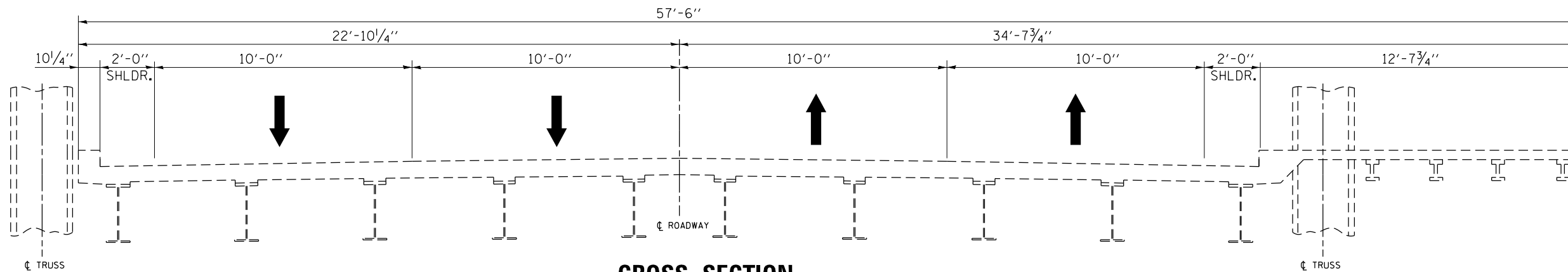
IL 83 - CALUMET SAG RD.



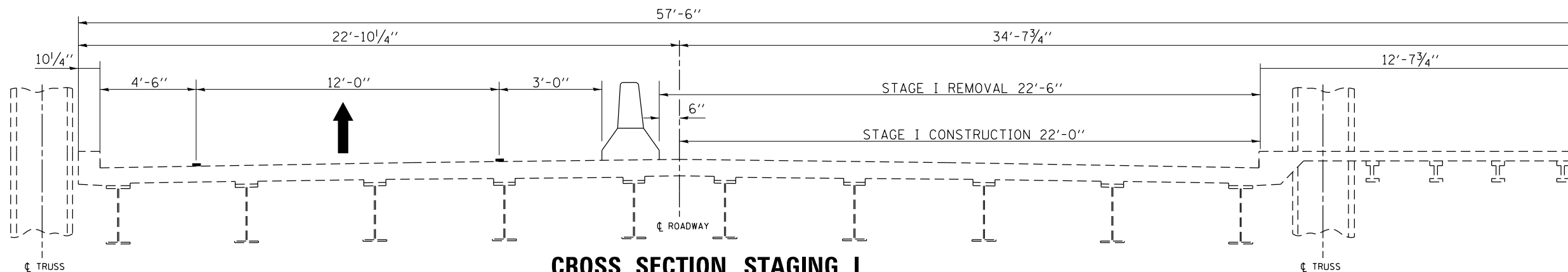
LEGEND:

- DETOUR ROUTE
- CONSTRUCTION ZONE
- TYPE III BARRICADE
- AMBER FLASHING LIGHT

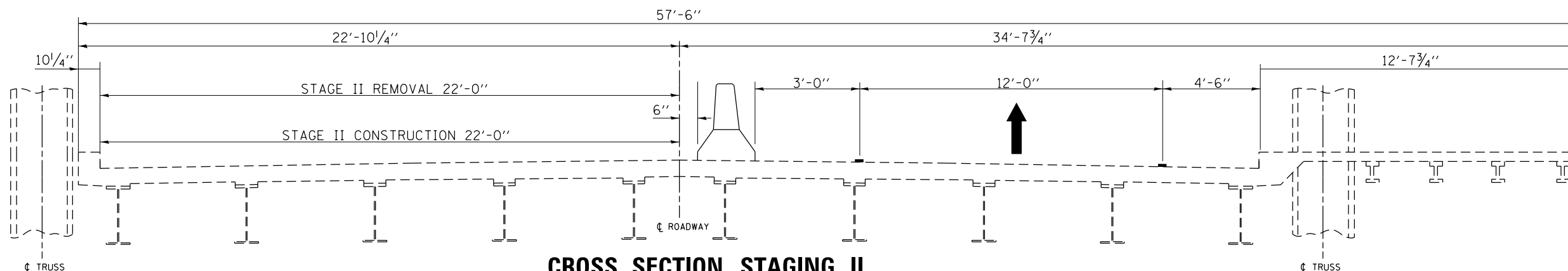
FILE NAME: p:\11884E810INTEG\Illinois.gov\PM1007\Documents\1007\Office\District 1\Projects\0146816\Design\0146816-ah1-plan.dgn	USER NAME: pyromonakirb	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN		F.A.P. RTE. 344	SECTION 545B-BR	COUNTY COOK	TOTAL SHEETS 30	SHEET NO. 19	
Default	PLOT SCALE: 100.0000' / in.	CHECKED: -	REVISED: -		SCALE:	SHEET 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 62031				
	PLOT DATE: 1/19/2017	DATE: -	REVISED: -		ILLINOIS FED. AID PROJECT							



CROSS SECTION
(LOOKING SOUTH)

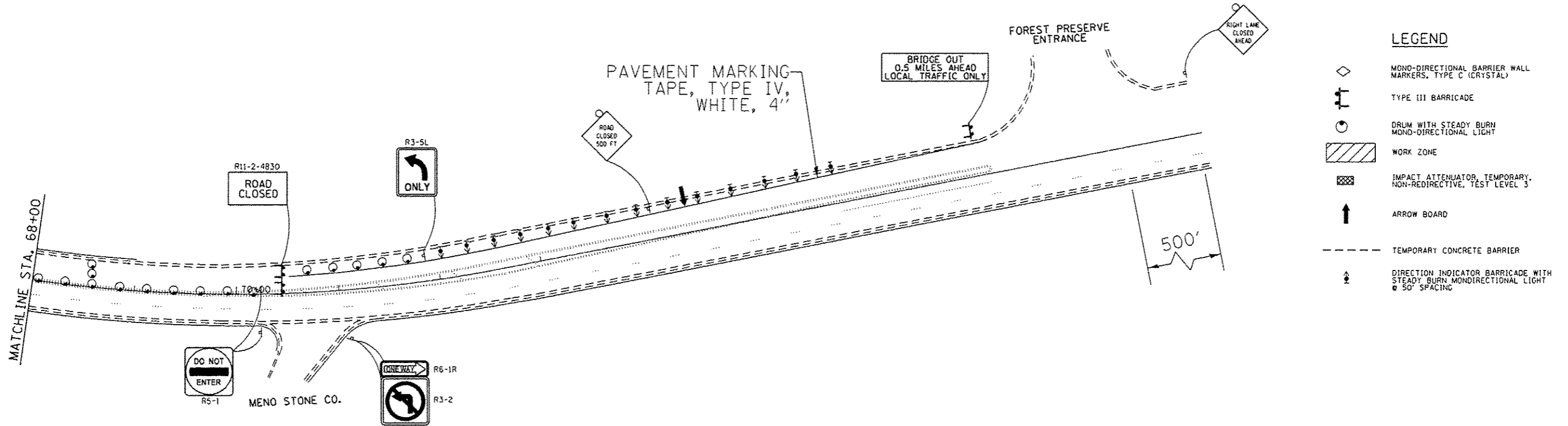
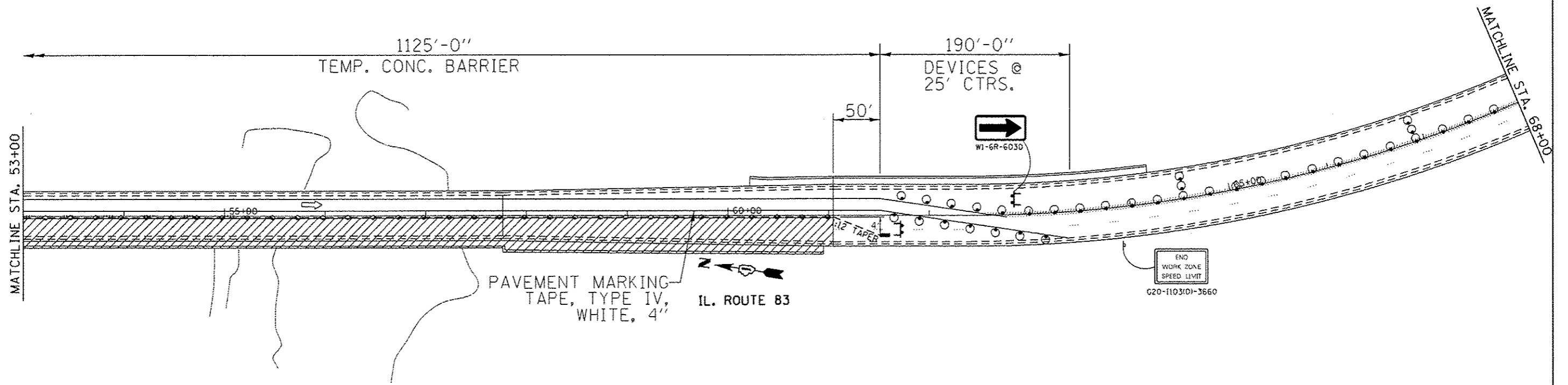


CROSS SECTION STAGING I
(LOOKING SOUTH)



CROSS SECTION STAGING II
(LOOKING SOUTH)

FILE NAME =	USER NAME = pyrzezowski	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL CROSS SECTIONS IL 171 /83 OVER CAL SAG CHANNEL (SN 016-0427)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI15314\Design\DI15314-shr-plan.dgn		CHECKED -	REVISED -			344	545B-BR	COOK	30	20
Default		DATE -	REVISED -			CONTRACT NO. 62D31				
						ILLINOIS FED. AID PROJECT				



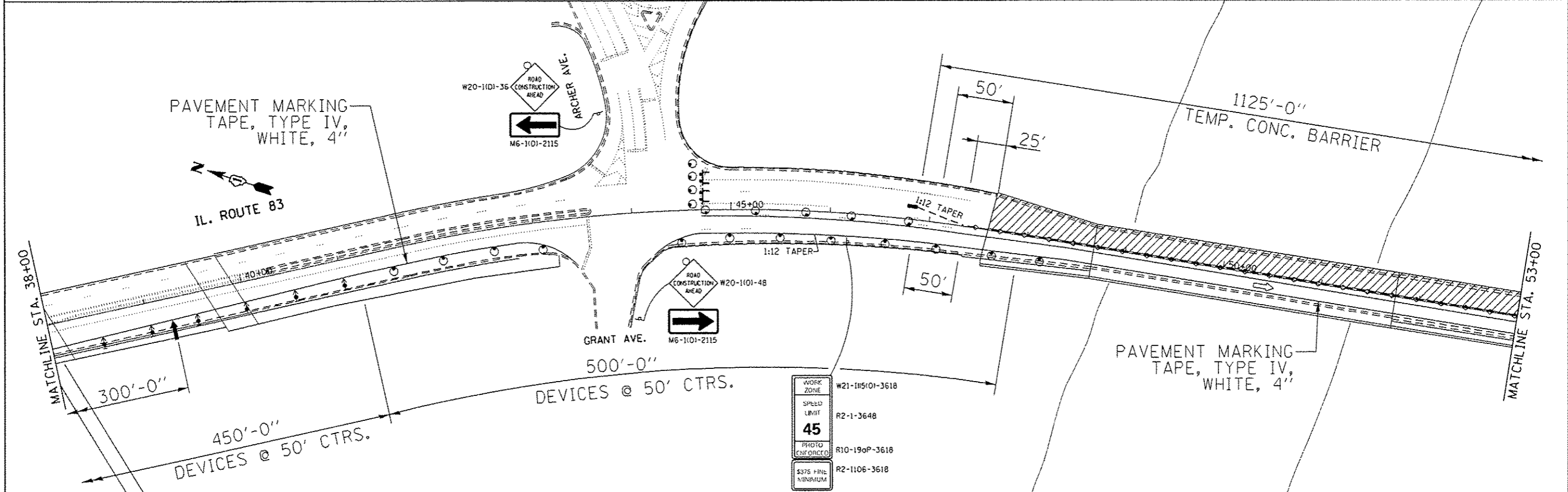
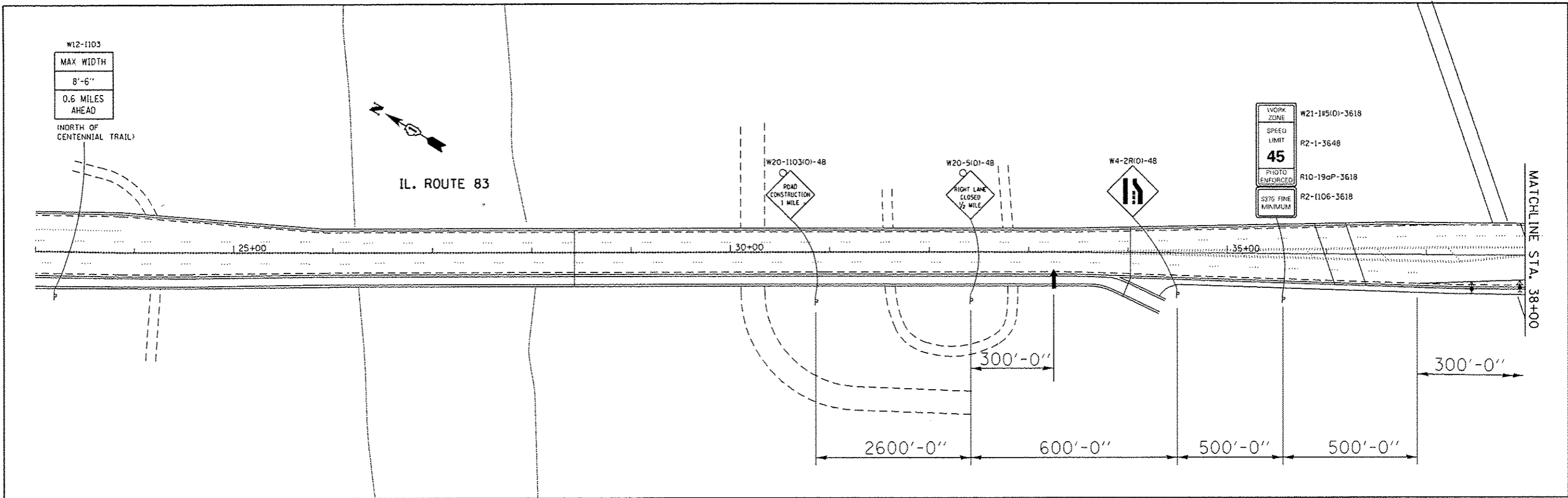
LEGEND

- ◇ MONO-DIRECTIONAL BARRIER WALL MARKERS, TYPE C (CRYSTAL)
- ⊥ TYPE III BARRICADE
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▨ WORK ZONE
- ▩ IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE, TEST LEVEL 3
- ↑ ARROW BOARD
- TEMPORARY CONCRETE BARRIER
- ⊥↑ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' SPACING

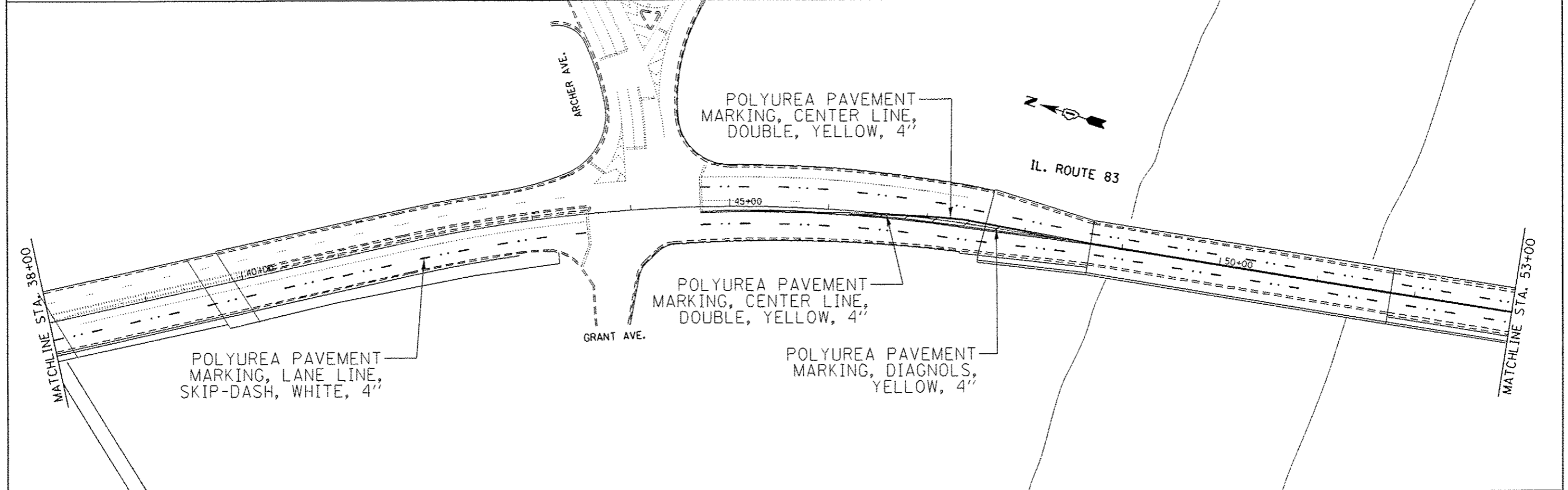
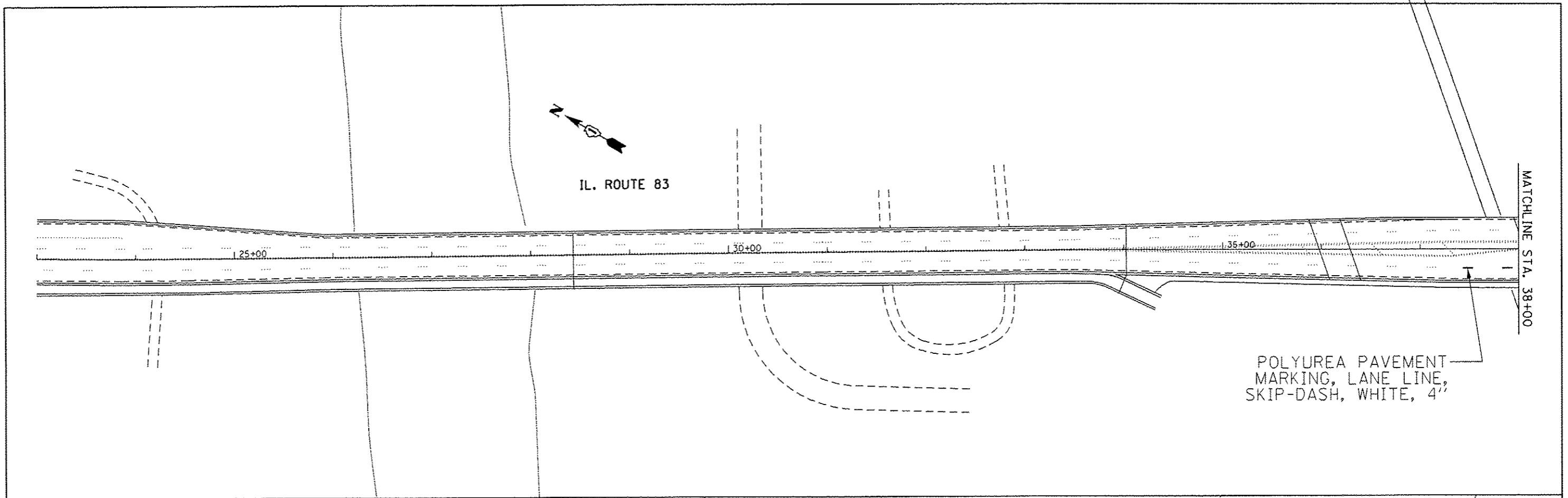
NOTES:

— TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED

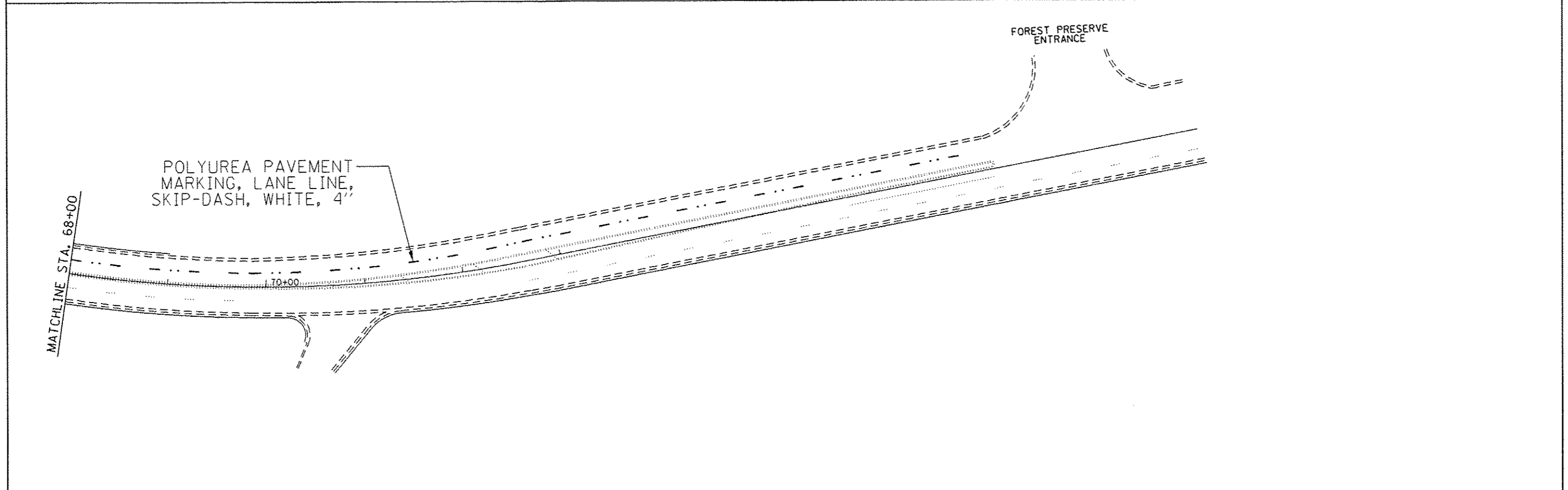
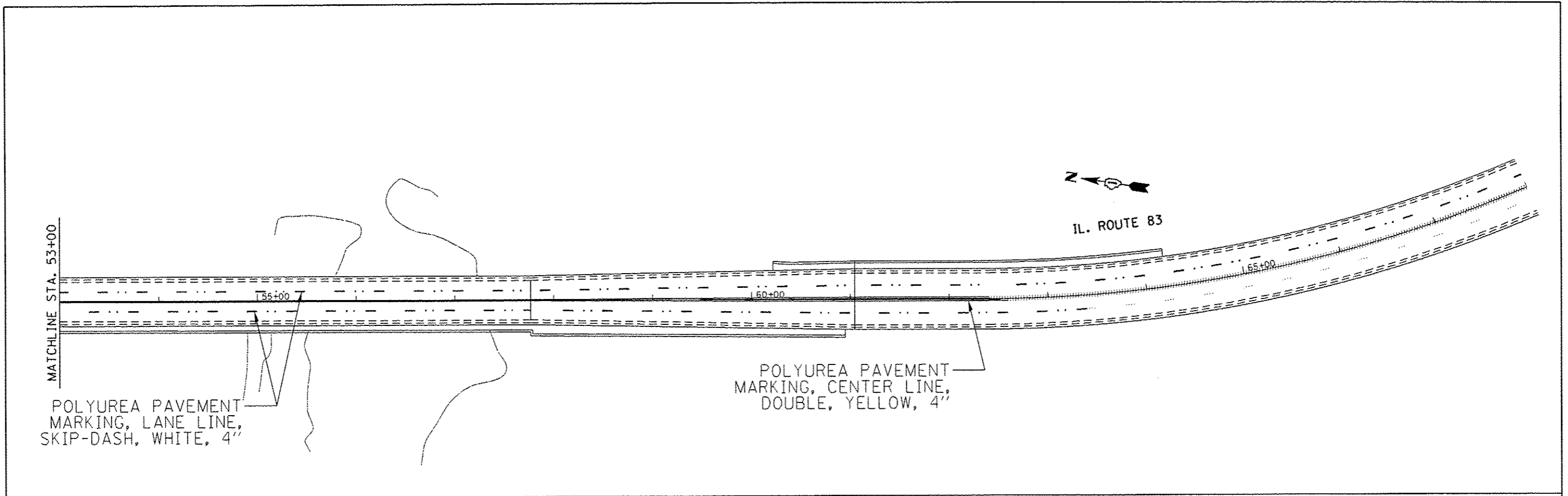
FILE NAME : p:\11004610\INTEG\Illinois.gov\PI\DOT\Documents\1007\Office\District 1\Projects\014610\014610\Design\014610-shr-plan.dgn	USER NAME : pysonowakirb	DESIGNED - REVISOR -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 171/83 (ARCHER AVE.) OVER CAL-SAG CHANNEL STAGE I TRAFFIC CONTROL AND PROTECTION PLAN	F.A.P. RTE. 344	SECTION 545B-BR	COUNTY COOK	TOTAL SHEETS 30	SHEET NO. 22		
Default	PLOT SCALE : 100.0000' / in.	CHECKED - DATE -	REVISOR - DATE -			SCALE: 1" = 100'	SHEET 1 OF 30 SHEETS	STA. TO STA.	CONTRACT NO. 62031 ILLINOIS FED. AID PROJECT			



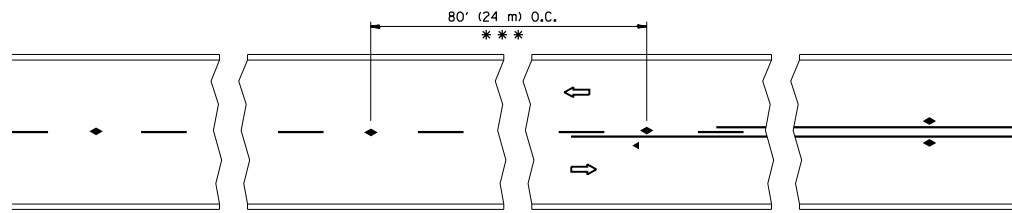
FILE NAME:	USER NAME: pgrsenowshrb	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 171/83 (ARCHER AVE.) OVER CAL-SAG CHANNEL STAGE II TRAFFIC CONTROL AND PROTECTION PLAN	F.A.P. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:	
Default	Documents\1007\Office\District 1\Projects\DI140\PSHD\Design\DI14016-sht-plan.dgn	CHECKED: -	REVISED: -			344	545B-BR	COOK	30	23	
	PLOT SCALE: 1/100,000" = 1"	DATE: -	REVISED: -			CONTRACT NO. 62D31					
	PLOT DATE: 1/19/2017	DATE: -	REVISED: -			ILLINOIS FED. AID PROJECT					



FILE NAME =	USER NAME = pyzanski	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 171/83 (ARCHER AVE.) OVER CAL-SAG CHANNEL FINAL PAVEMENT MARKING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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						ILLINOIS FED. AID PROJECT					

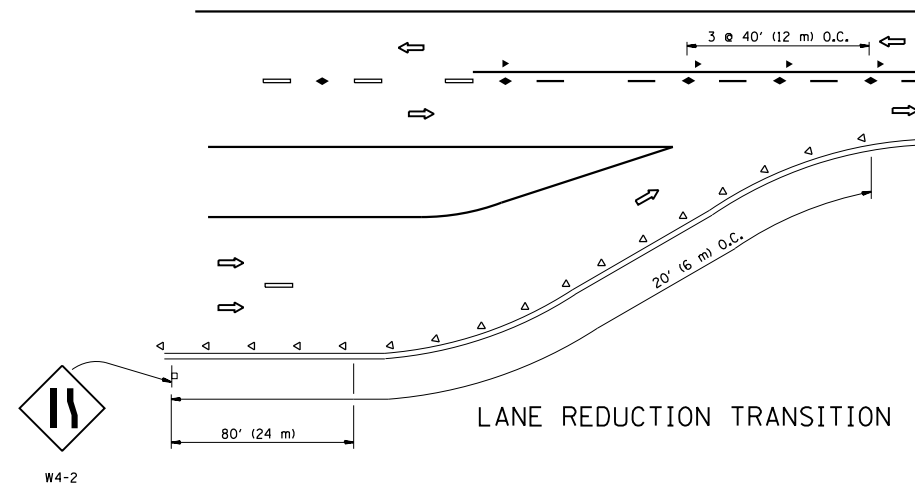


FILE NAME : pww\11884810\INTEG\11\maie.gov\PK1007\0	USER NAME : pyznanowakrb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 171 / 83 (ARCHER AVE.) OVER CAL-SAG CHANNEL FINAL PAVEMENT MARKING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLT SCALE : 100.0000 ' / 1"	CHECKED -	REVISED -			344	545B-BR	COOK	30	26
Default	PLT DATE : 1/16/2017	DATE -	REVISED -	SCALE: = SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT CONTRACT NO. 62031				

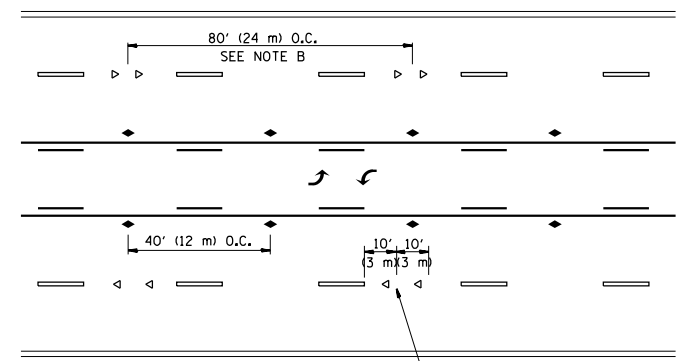


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

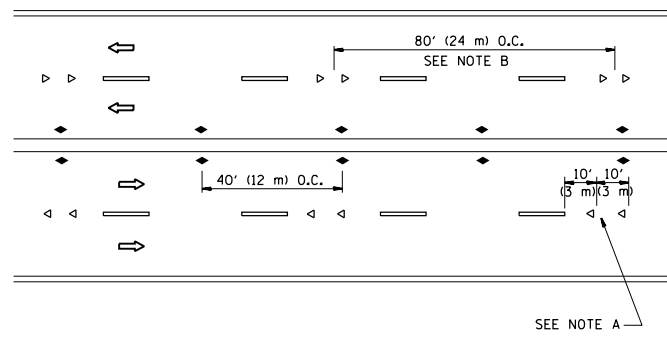
TWO-LANE/TWO-WAY



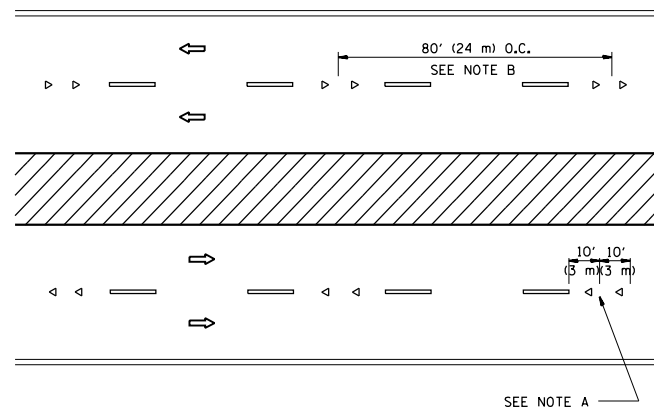
LANE REDUCTION TRANSITION



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

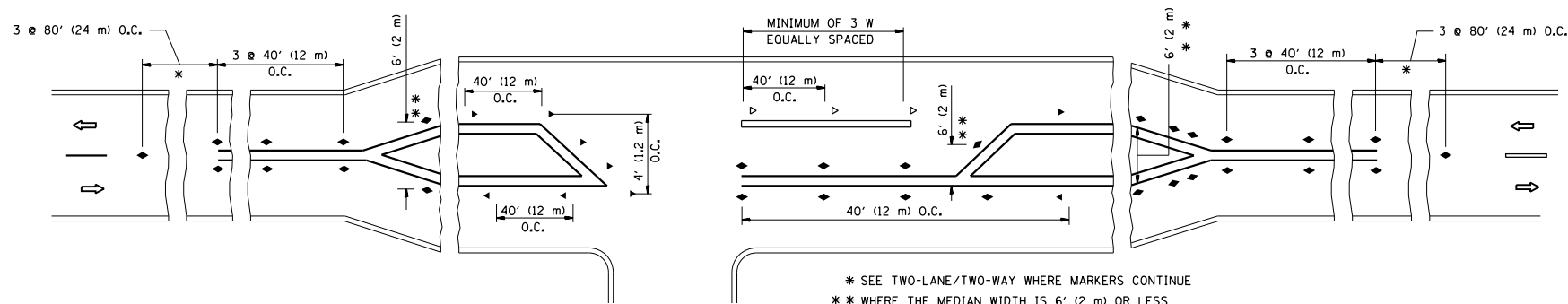
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

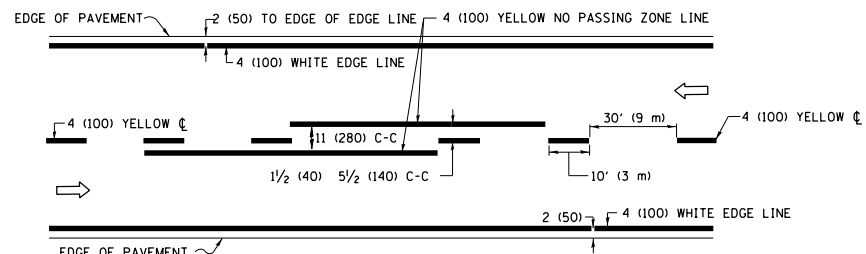
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = pyrzenowski	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
pw:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI15314\Design\DI15314-shr-plan.dgn		CHECKED -	REVISED - T. RAMMACHER 03-12-99
		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

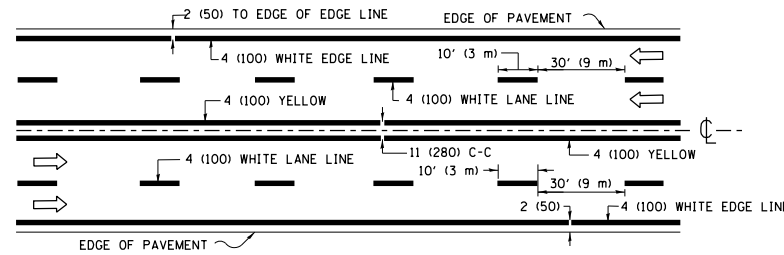
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

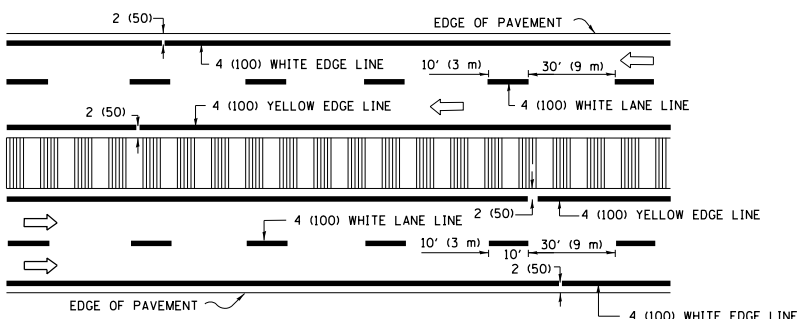
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	27
TC-11			CONTRACT NO. 62D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

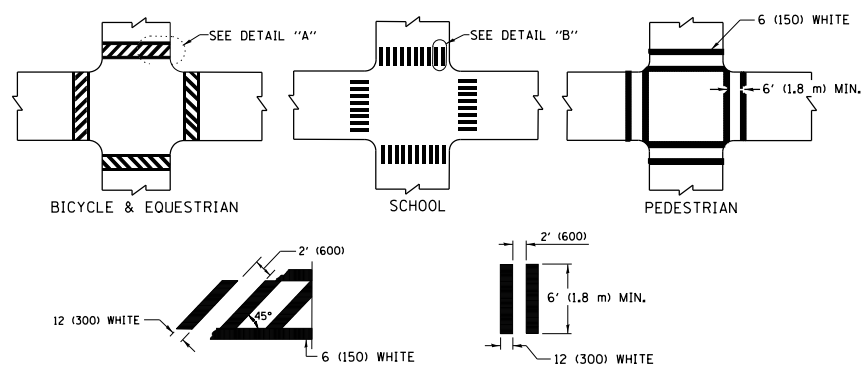


MULTI-LANE UNDIVIDED



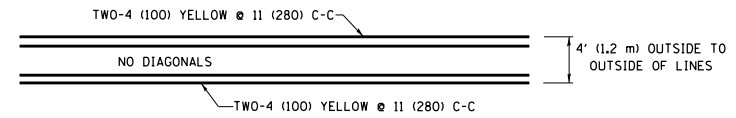
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

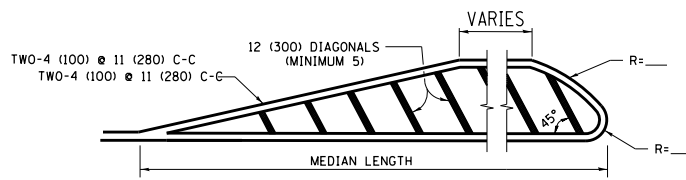


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

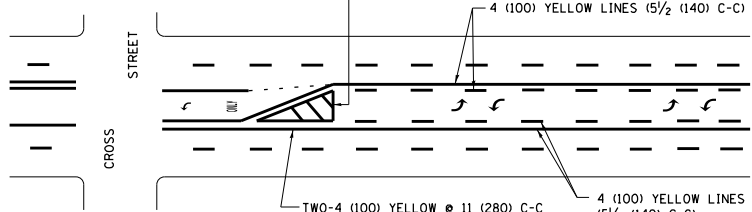


4' (1.2 m) WIDE MEDIANS ONLY



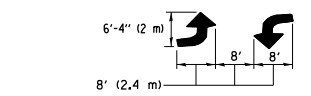
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

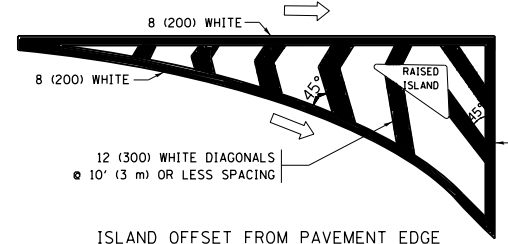
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



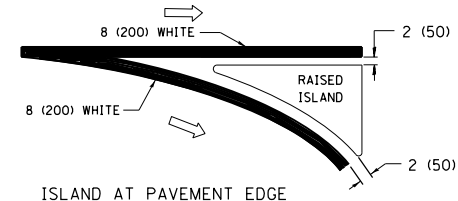
TYPICAL LEFT (OR RIGHT) TURN LANE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING

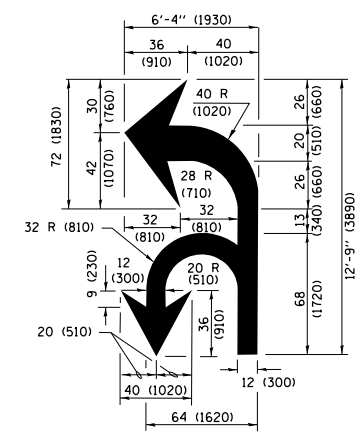


ISLAND OFFSET FROM PAVEMENT EDGE

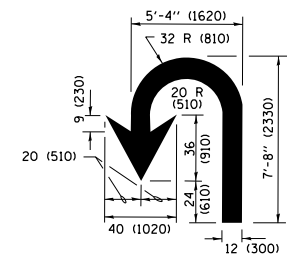


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = pyznowskirb	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
p:\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI15314\BRAW\Notes\Design\DI15314-sht-plan.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 1/4/2017		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	28
TC-13		CONTRACT NO.	62D31	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

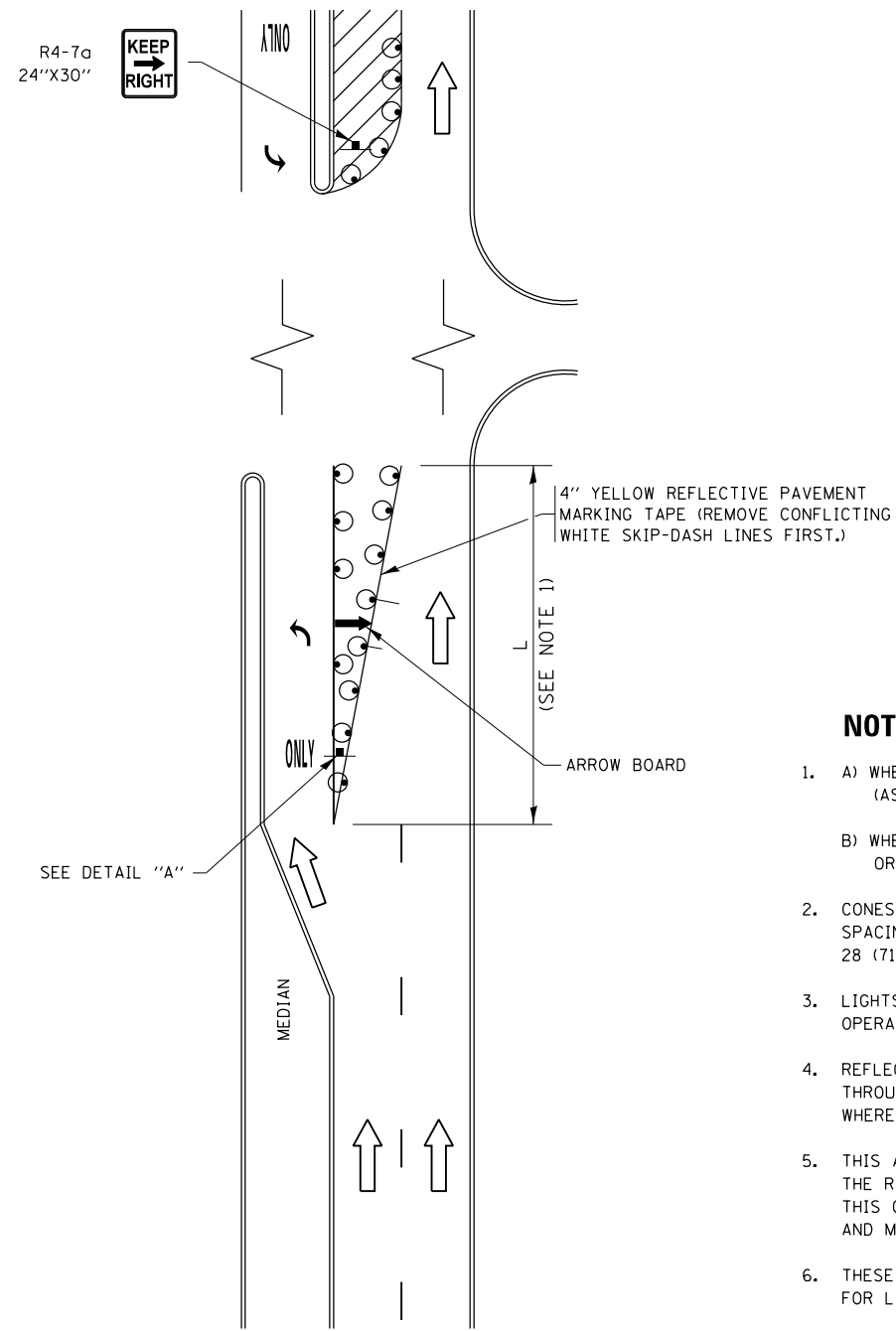


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

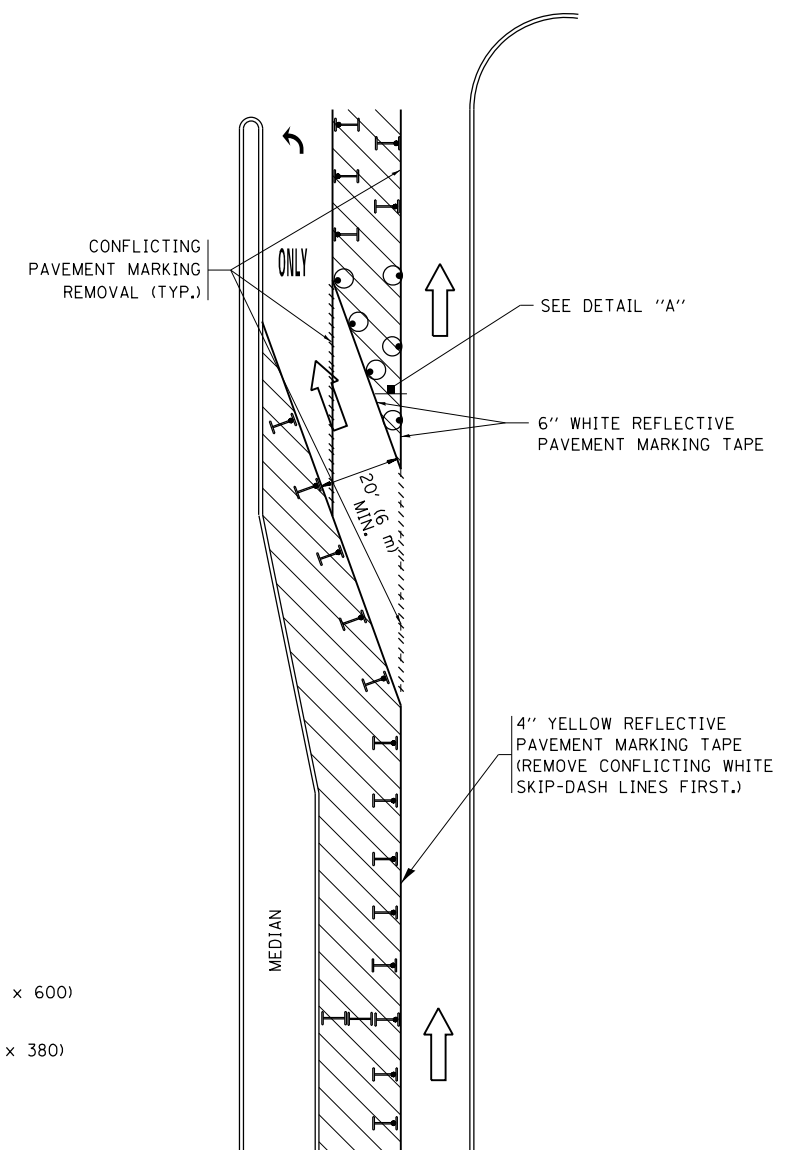
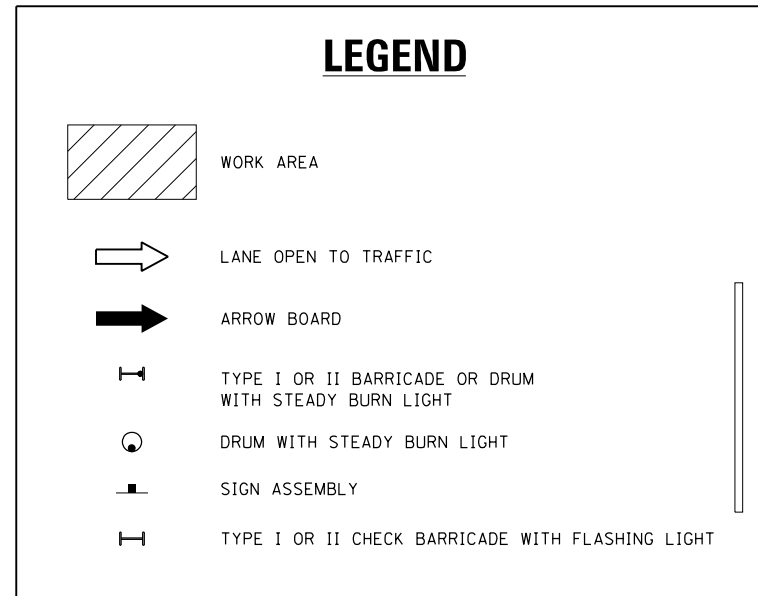
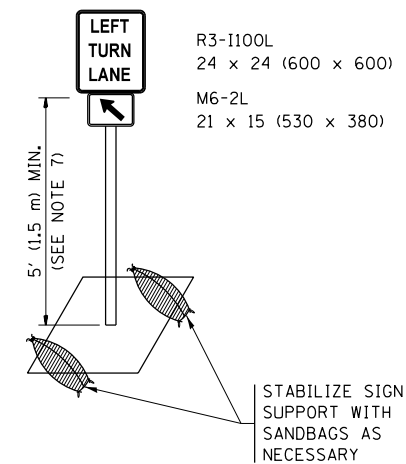


FIGURE 2



NOTES:

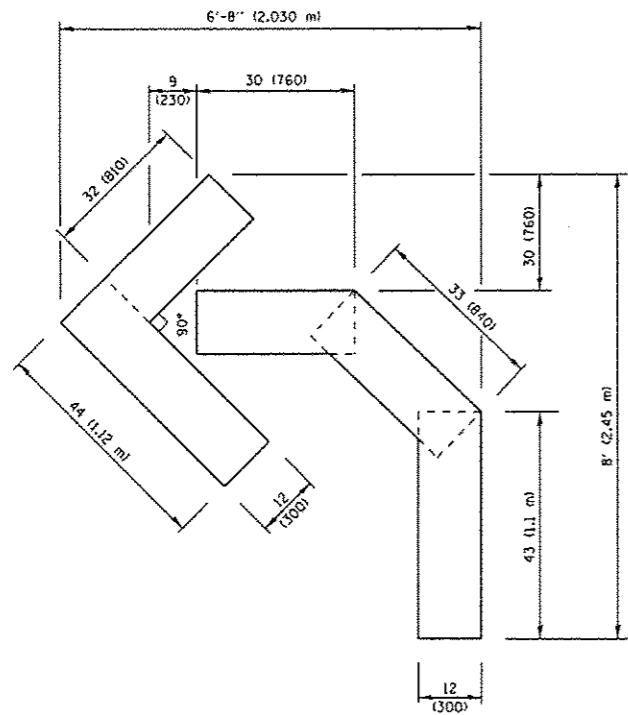
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. 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-I100R 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.



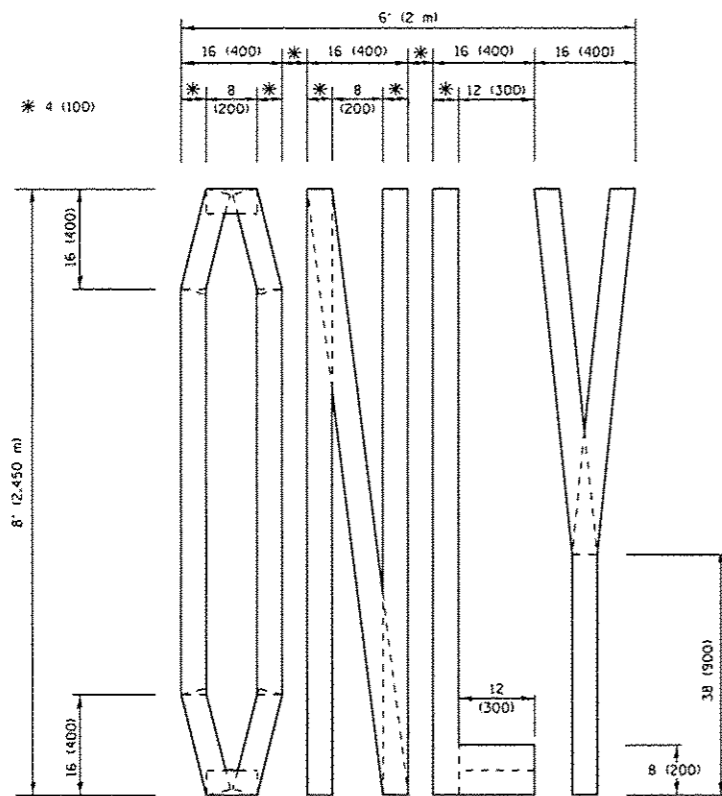
DETAIL A

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

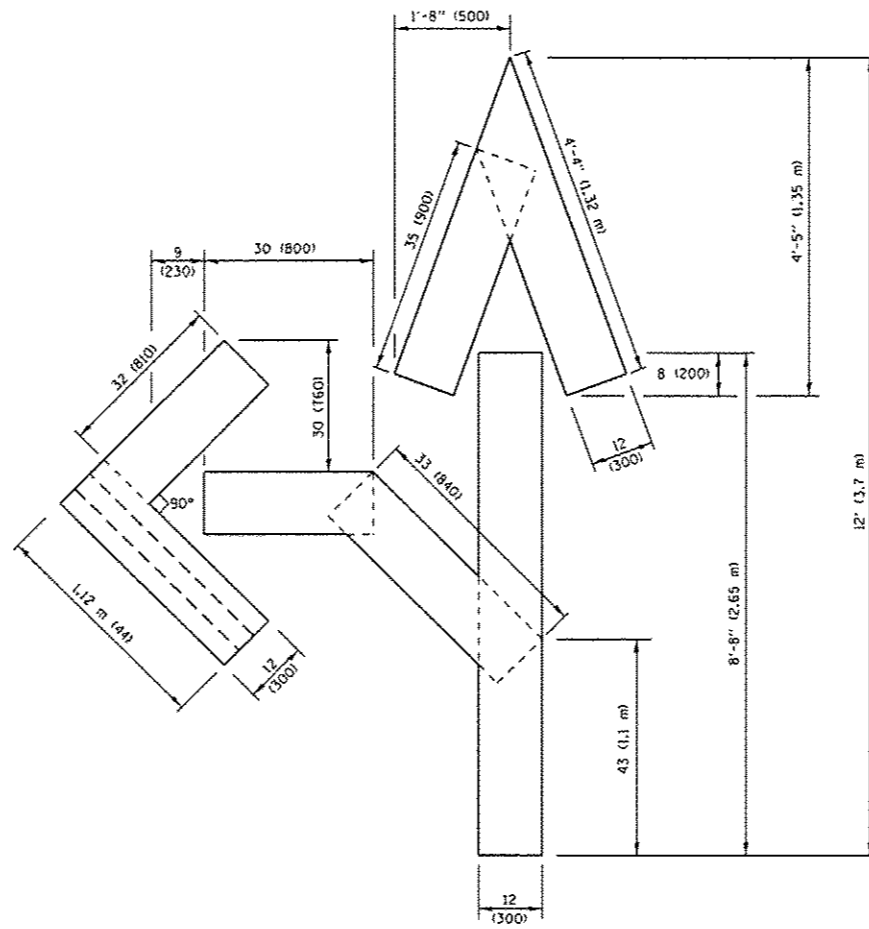
FILE NAME =	USER NAME = pyrzenowski	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 10-06-95	REVISED - A. SCHUETZE 07-01-13					344	545B-BR	COOK	30	29
	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14			CONTRACT NO. 62D31				
	PLOT DATE = 1/4/2017	REVISED - T. RAMMACHER 01-06-00	REVISED -		ILLINOIS FED. AID PROJECT							



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)



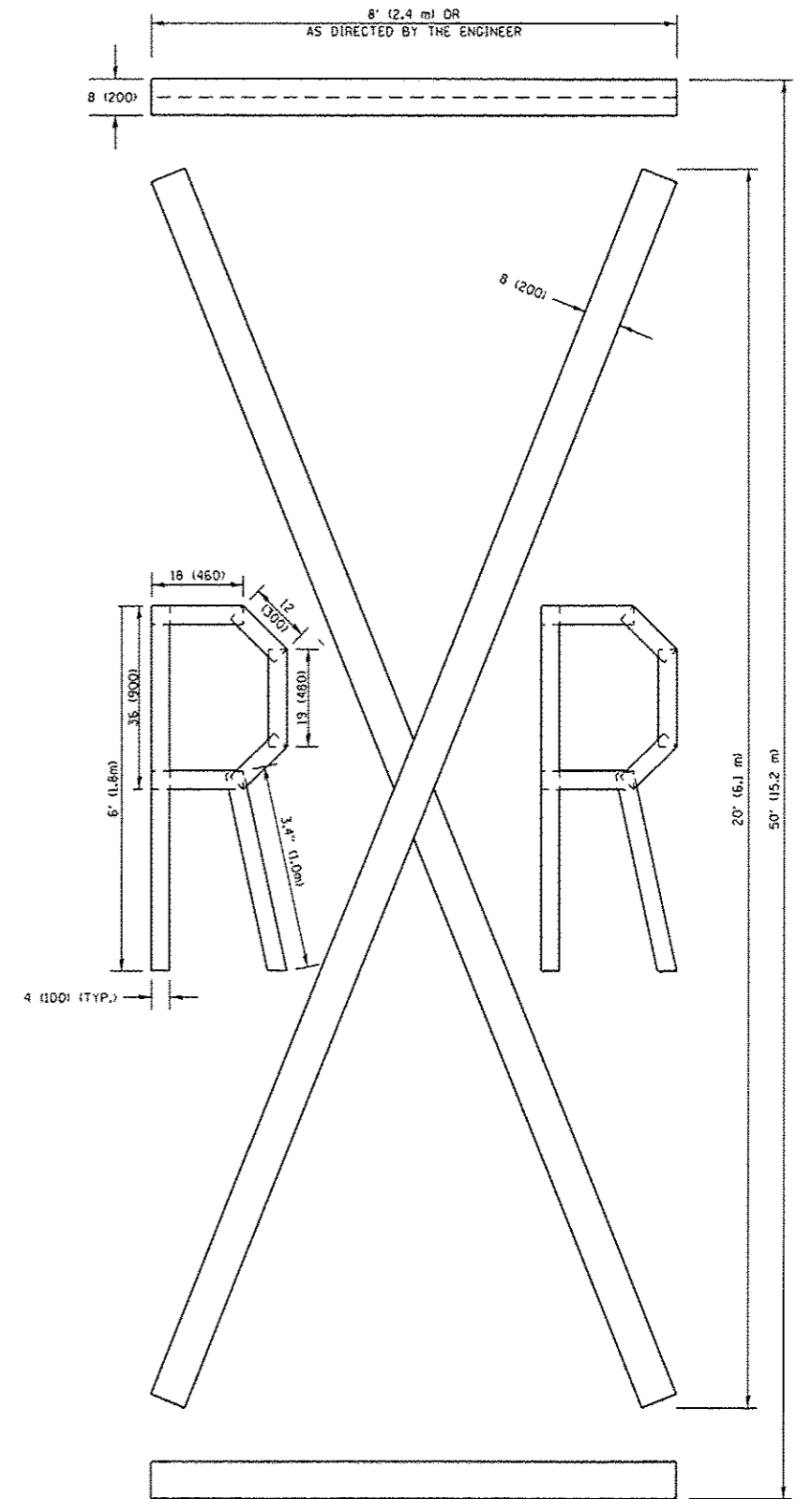
QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

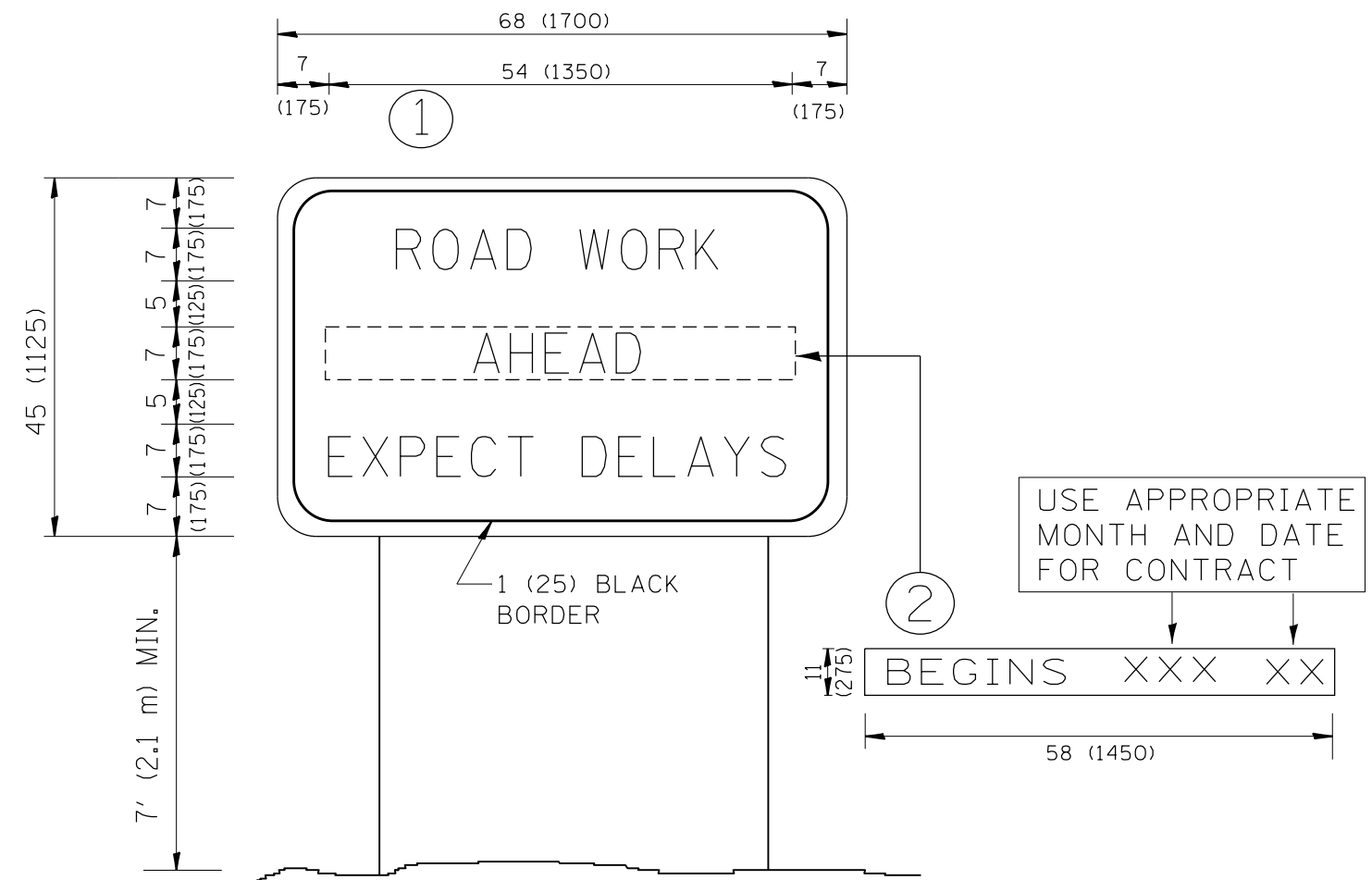
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = pyznanokurb	DESIGNED -	REVISED - I. RAMMACHER 03-02-98
p:\11\084EBID\INTEG\Illinois.gov\FW1007\Do	ments\1007 Offices\District 1\Projects\0146816\0146816.dgn	CHECKED -	REVISED - E. GOMEZ 08-28-00
		CHECKED -	REVISED - E. GOMEZ 08-28-00
		DATE -	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	29A
TC-16		CONTRACT NO. 62031		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 = pyrzezowski	DESIGNED -	REVISED - R. MIRS 09-15-97
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI15314\BROW\Design\DI15314-sh-t-plan.dgn		CHECKED -	REVISED - R. MIRS 12-11-97
		DATE -	REVISED - T. RAMMACHER 02-02-99
			REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	545B-BR	COOK	30	30
TC-22		CONTRACT NO. 62D31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				