

06-14-13 LETTING ITEM 025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 347: IL 38 (ROOSEVELT RD)
AT WEST BRANCH DUPAGE RIVER
SECTION: 2011-067-1
DECK OVERLAY AND JOINT RECONSTRUCTION
DUPAGE COUNTY
C-91-623-11

F.A.P. RTE. 347	SECTION 2011-067-1	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 1
		ILLINOIS	CONTRACT NO. 60P86	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

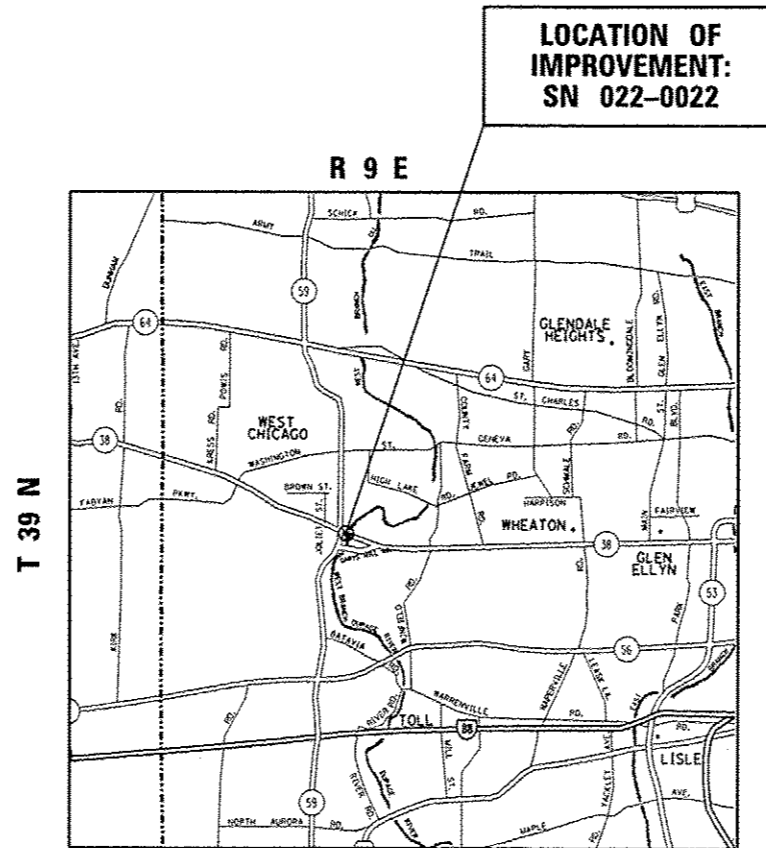
IMPROVEMENT IS LOCATED IN
THE CITY OF WEST CHICAGO



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

TRAFFIC DATA:

2011 ADT = 18600
POSTED SPEED LIMIT = 45-50 MPH



WINFIELD TOWNSHIP

GROSS LENGTH OF IMPROVEMENT = 228 FT

PROJECT ENGINEER: ROBERT BORO (847) 705-4237
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 60P86

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 12, 2012

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 10, 2013
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2013
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**J.U.L.I.E. JOINT UTILITY LOCATION
INFORMATION FOR EXCAVATION
(800) 892-0123 OR 811**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-14	BRIDGE REPAIR DETAILS - SN 022-0022
15-18	TRAFFIC CONTROL PLANS (STAGE I & II)
19	TRAFFIC STAGING PLAN
20	DETOUR DURING STAGE II
21-22	FINAL PAVEMENT MARKING PLAN
23	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
24	FREEWAY ENTRANCE AND EXIT RAMP (TC-8)
25	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
26	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
27	TYPICAL PAVEMENT MARKING (TC-13)
27A	TRAFFIC CONTROL DETAILS
28	ARTERIAL ROAD INFORMATION SIGN (TC-22)
29	BRIDGE APPROACH SHOULDER PAVEMENT, STANDARD 2324-5

STATE STANDARDS

STANDARD NO.	DESCRIPTION
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701431-00	LANE CLOSURE, MULTILANE, UNDIVIDED WITH CROSSOVER, FOR SPEEDS 45 MPH TO 55 MPH
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-02	TRAFFIC CONTROL DEVICES
606001-05	
606301-04	

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 & GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF WEST CHICAGO.

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

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 STRIPPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

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

THE ENGINEER SHALL CONTACT DON CHIARUOI AREA TRAFFIC FIELD TECHNICIAN AT (847) 741-9857 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.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

FILE NAME :	USER NAME : gorongoutab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS STATE STANDARDS, GENERAL NOTES	F.A.P. RTE. 347	SECTION 2011-067-1	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 2	<i>Rev.</i>	
c:\p-work\pvidot\gorongoutab\d0273151\62311-sh1-plan.dgn	62311-sh1-plan.dgn	DRAWN -	REVISED -									
	PLOT SCALE : 100.0000 / in.	CHECKED -	REVISED -									
	PLOT DATE : 12/14/2012	DATE -	REVISED -									
						SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60P86				
						ILLINOIS FED. AID PROJECT						

SUMMARY OF QUANTITIES			URBAN 100% STATE CONSTRUCTION TYPE CODE 0014					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	36	36				
21400100	GRADING AND SHAPING DITCHES	FOOT	80	80				
25200110	SODDING, SALT TOLERANT	SO YD	36	36				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.8	0.8				
40600300	AGGREGATE (PRIME COAT)	TON	3.6	3.6				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	8	8				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	550	550				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	340	340				
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SO YD	145	145				
50102400	CONCRETE REMOVAL	CU YD	5.1	5.1				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	6.1	6.1				
50300260	BRIDGE DECK GROOVING	SO YD	860	860				
50300300	PROTECTIVE COAT	SO YD	105	105				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	735	735				
50800515	BAR SPLICERS	EACH	8	8				

SUMMARY OF QUANTITIES			URBAN 100% STATE CONSTRUCTION TYPE CODE 0014					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014				
52000110	PREFORMED JOINT STRIP SEAL	FOOT	134	134				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3				
67100100	MOBILIZATION	L SUM	1	1				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	4438	4438				
* 78008210	POLYUREA PAVEMENT MARKING TYPE I -LINE 4"	FOOT	3950	3950				
* 78008240	POLYUREA PAVEMENT MARKING TYPE I -LINE 8"	FOOT	120	120				
* 78008250	POLYUREA PAVEMENT MARKING TYPE I -LINE 12"	FOOT	42	42				
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	48	48				
* 78100300	REPLACEMENT REFLECTOR	EACH	36	36				
78300100	PAVEMENT MARKING REMOVAL	SO FT	1440	1440				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	36	36				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	96	96				

* Specialty Items

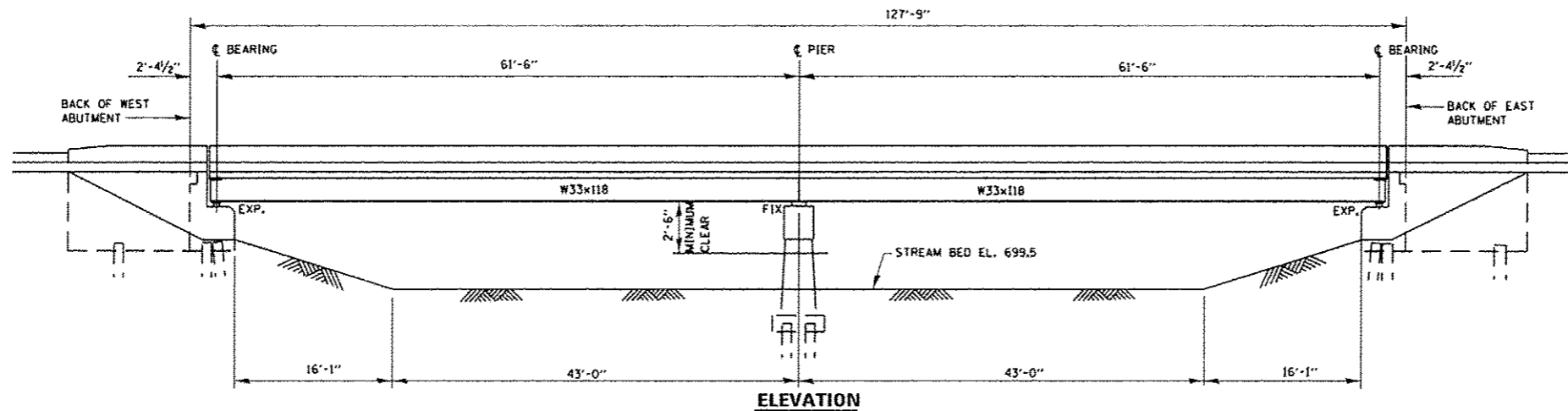
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2162311_shtplan.dgn	gongpu100	DRAWN :	REVISED :			347	2011-067-1	DUPAGE	29	3
		CHECKED :	REVISED :			CONTRACT NO. 60P86				
		DATE :	REVISED :			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
				0014					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	12770	12770					
X7030045	WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	FOOT	85	85					
X7030050	WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH	FOOT	125	125					
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SO YD	41	41					
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO YD	17	17					
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SO YD	885	885					
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SO YD	885	885					
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	50	50					
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SO FT	2	2					
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	11	11					

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
				0014					
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	47	47					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4					
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
30300104	AGGREGATE SUBGRADE IMPROVEMENT, 4"	SQ YD	230	230					
31101100	SUBBASE GRANULAR MATERIAL, TYPE B, 2"	SQ YD	188	188					
42001300	PROTECTIVE COAT	SQ YD	231	231					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	237	237					
44003100	MEDIAN REMOVAL	SQ FT	1686	1686					
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	237	237					
606018300	CONCRETE MEDIAN SURFACE, 4"	SQ FT	1686	1686					
Z0062456	TEMPORARY PAVEMENT	SO YD	230	230					

FILE NAME	USER NAME	DESIGNED	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	CHECKED					347	2011-067-1	DUPAGE	29	4
		DATE				SCALE:	SHEET NO. OF SHEETS STA.			CONTRACT NO.	60P86	
										FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

Rev.



ELEVATION
FLOW ← W. BRANCH DUPAGE RIVER

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 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.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GR. 35, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

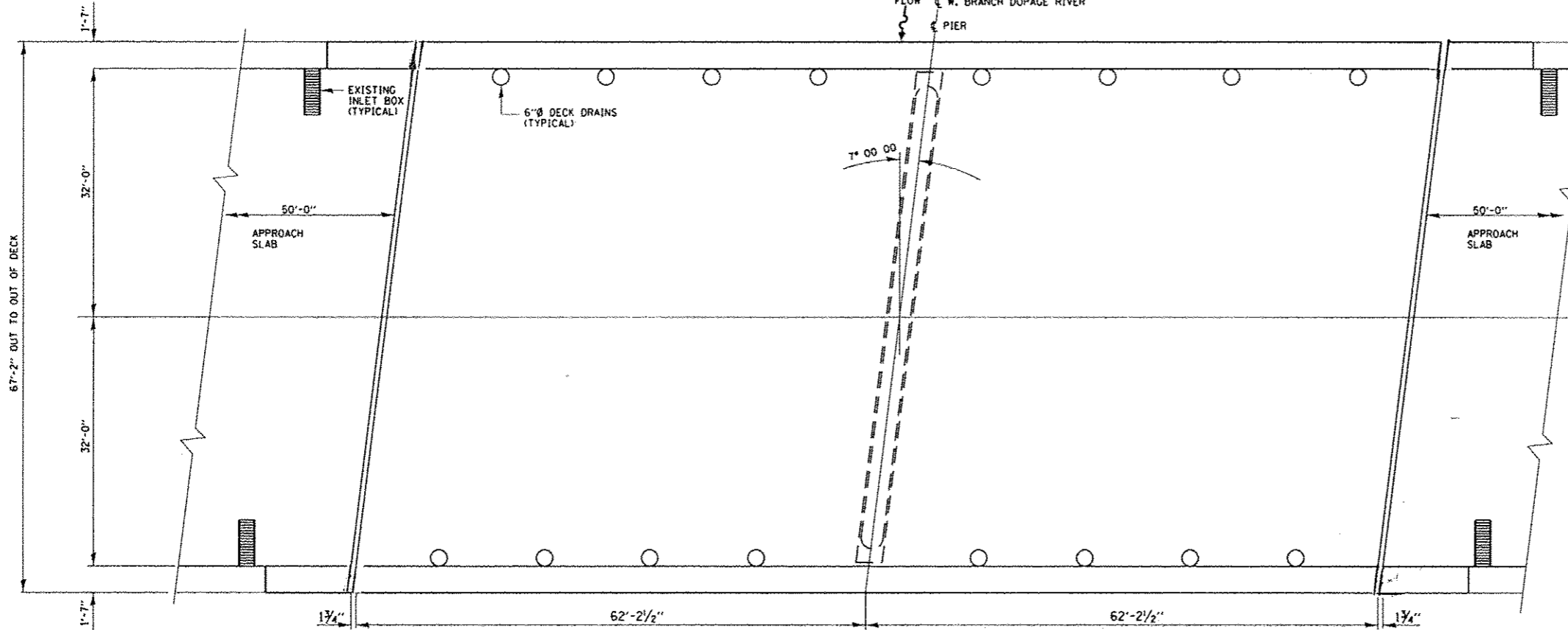
AREA OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60. SEE SPECIAL PROVISIONS.

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.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

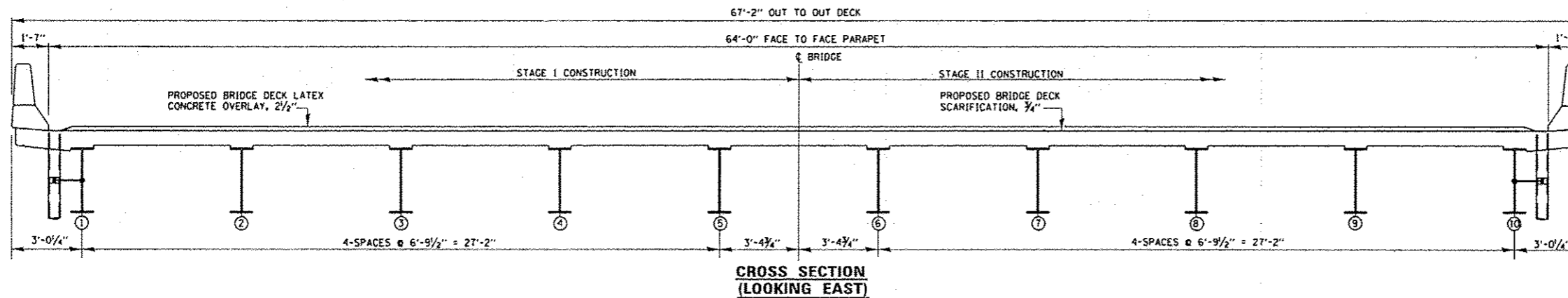
DO NOT SCALE DIMENSIONS.



PLAN

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
REINFORCEMENT BARS (EPOXY COATED)	POUND	725
CONCRETE REMOVAL	CU. YD.	5.1
CONCRETE SUPERSTRUCTURE	CU. YD.	6.1
PREFORMED JOINT STRIP SEAL	FOOT	134
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	17
APPROACH SLAB REPAIR (FULL DEPTH)	SQ. YD.	41
BAR SPLICERS	EACH	8
PROTECTIVE COAT	SQ. YD.	105
DECK SLAB REPAIR (FULL DEPTH), TYPE II	SQ. YD.	11
FRAMES AND GRATES TO BE ADJUSTED	EACH	4
DRAINAGE STRUCTURES TO BE CLEANED	EACH	4
FRAMES AND LIDS TO BE ADJUSTED	EACH	1
STORM SEWER TO BE CLEANED, 12"	FOOT	95
STRUCTURAL REPAIR OF CONCRETE <5"	SQ.FT.	50
STRUCTURAL REPAIR OF CONCRETE >5"	SQ.FT.	2
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ. YD.	885
BRIDGE DECK SCARIFICATION, 3/4"	SQ. YD.	885
BRIDGE DECK GROOVING	SQ. YD.	860

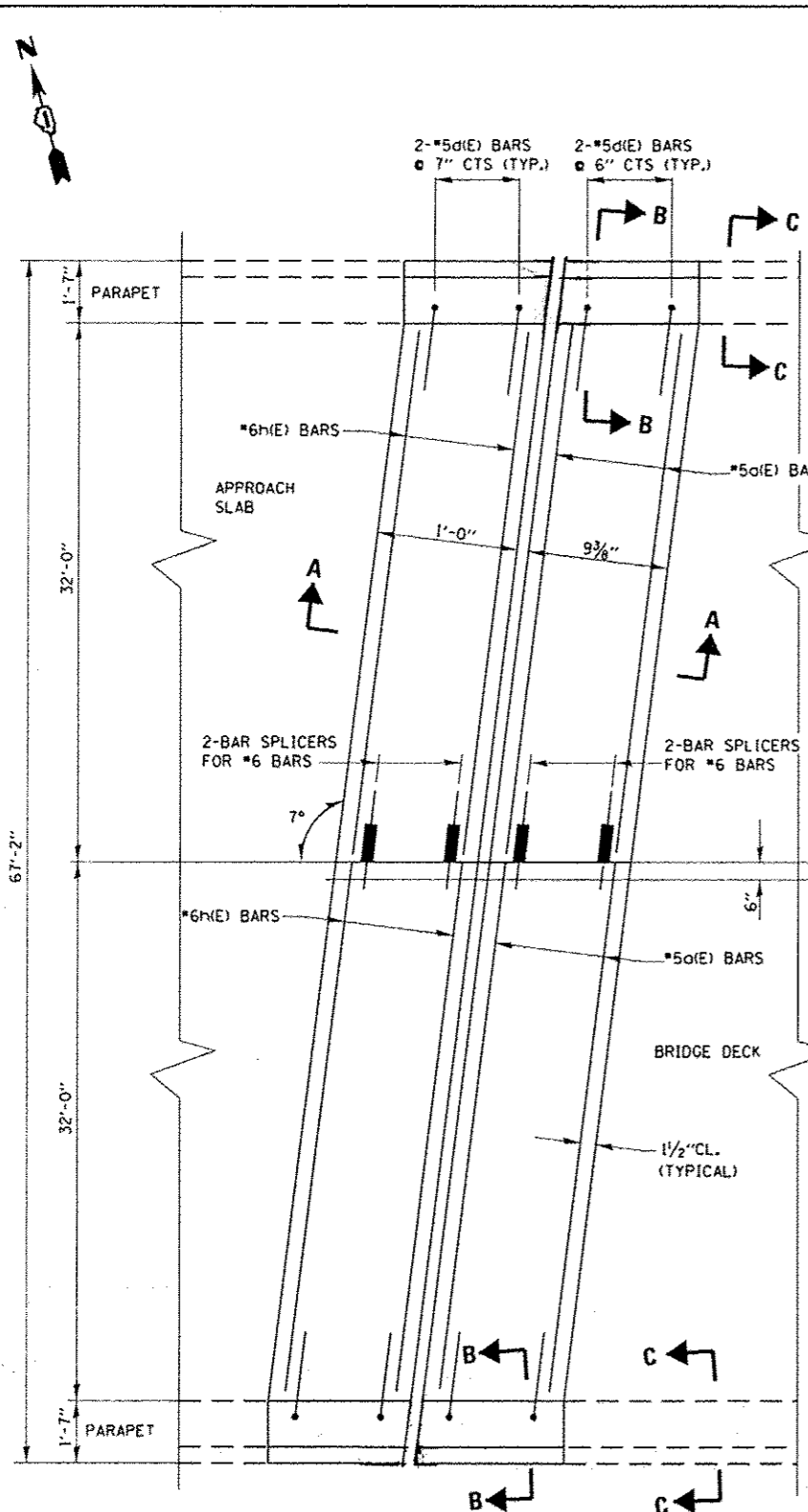


CROSS SECTION (LOOKING EAST)

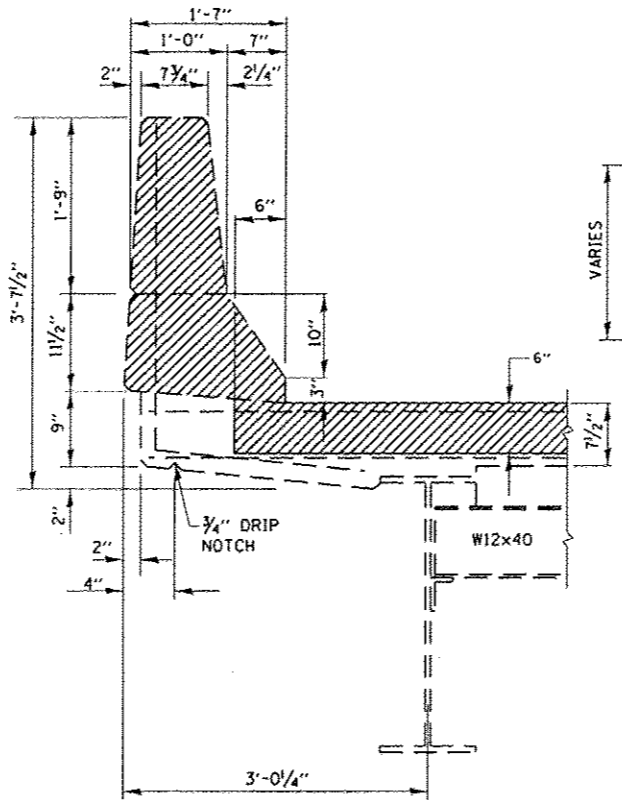


*David Carl Puzeý 3/1/13
Expires 11/30/14*

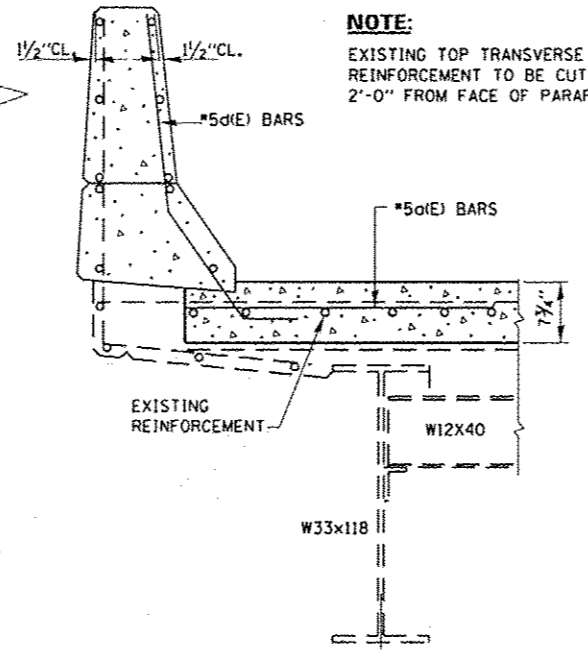
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	PLOT SCALE: 1/8" = 1'-0"	CHECKED: MVT	REVISOR:		SCALE: SHEET NO. 1 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60PB6		ILLINOIS FED. AID PROJECT	
	PLOT DATE: 12/14/2012	DATE: 12-20-2011	REVISIONS:							



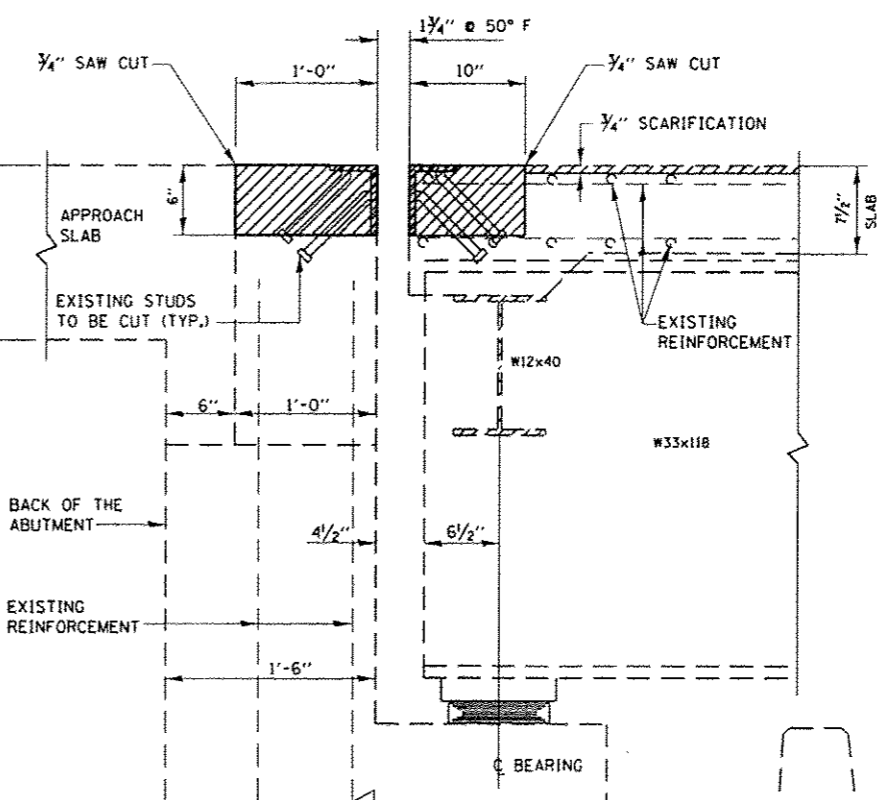
**EXPANSION JOINT PLAN
AT EAST AND WEST ABUTMENTS**



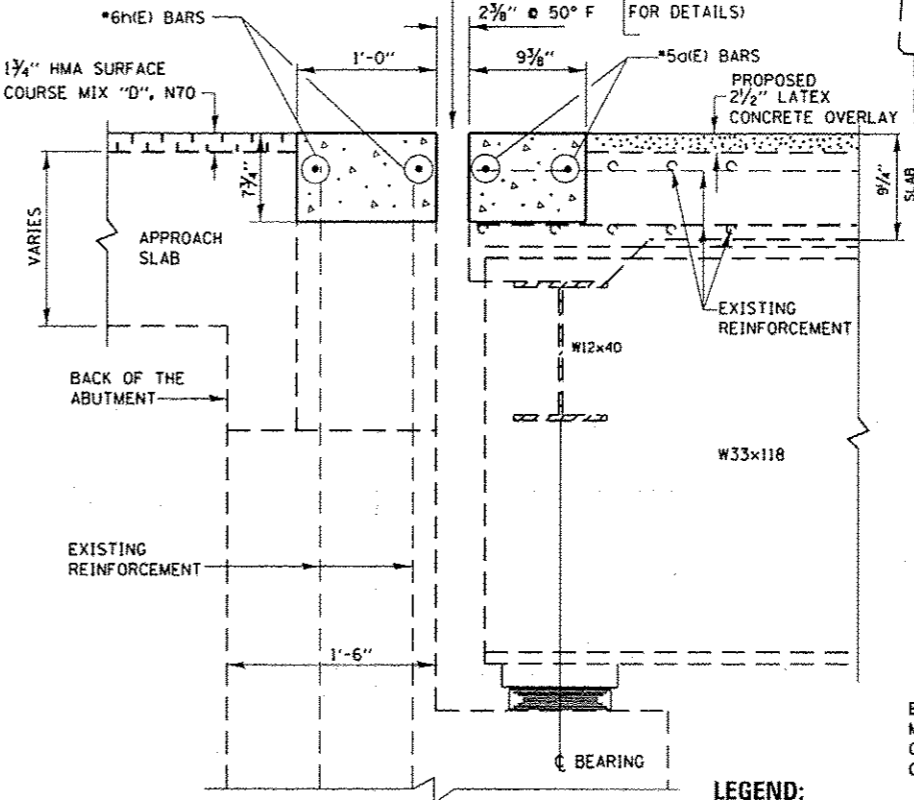
**SECTION B-B
(EXISTING)**



**SECTION B-B
(PROPOSED)**



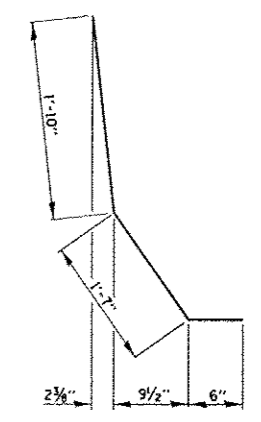
**SECTION A-A
(EXISTING)**



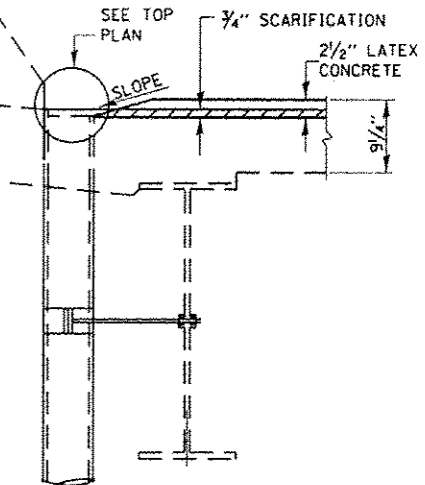
**SECTION A-A
(PROPOSED)**

BILL OF MATERIALS

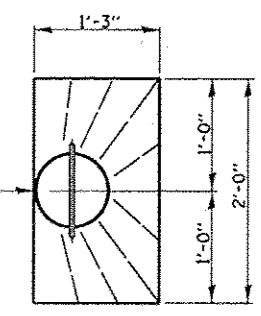
BAR	NO.	SIZE	LENGTH	SHAPE	
o(E)	8	#5	32'-3"		
d(E)	16	#5	3'-11"		
h(E)	8	#6	32'-3"		
REINFORCEMENT BARS (EPOXY COATED)				POUND	725
CONCRETE REMOVAL				CU.YD.	5.1
CONCRETE SUPERSTRUCTURE				CU.YD.	6.1
BAR SPLICERS				EACH	8



BAR d(E)



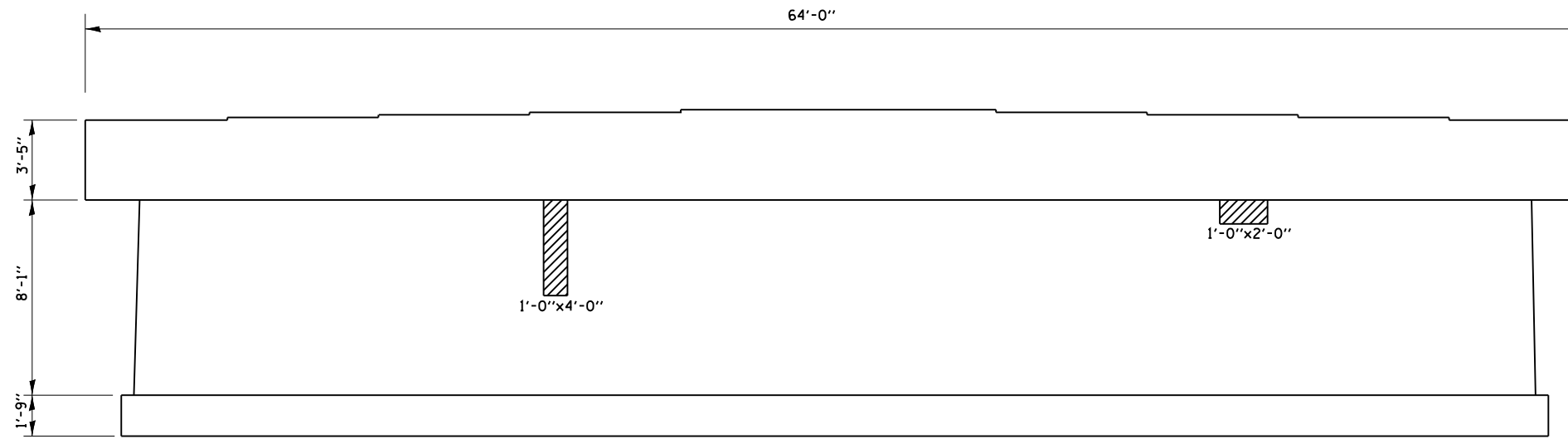
**SECTION C-C
(PROPOSED)**



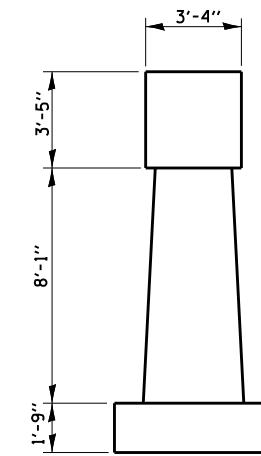
TOP PLAN

NOTE:
EXISTING TOP TRANSVERSE REINFORCEMENT TO BE CUT 2'-0" FROM FACE OF PARAPET

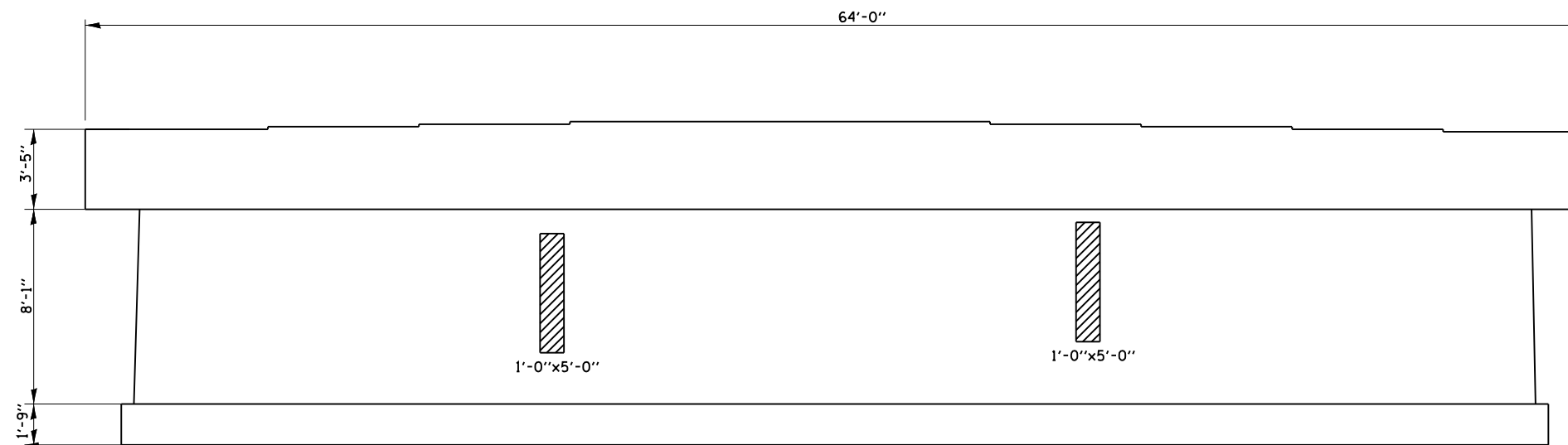
LEGEND:
HATCHED AREA INDICATES CONCRETE REMOVAL



**PIER ELEVATION
LOOKING WEST**



END VIEW



**PIER ELEVATION
LOOKING EAST**

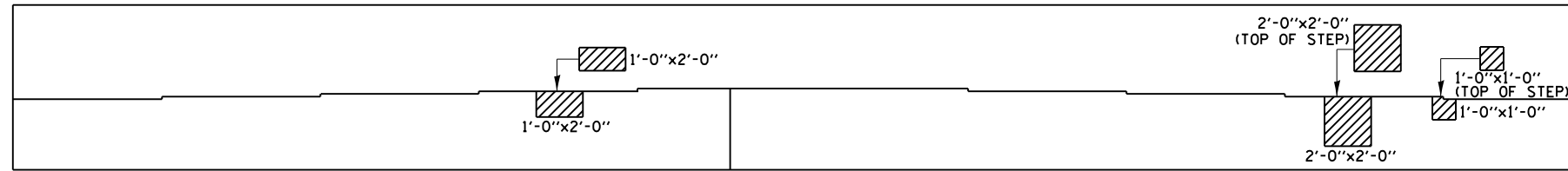
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE <5"	SQ.FT.	16

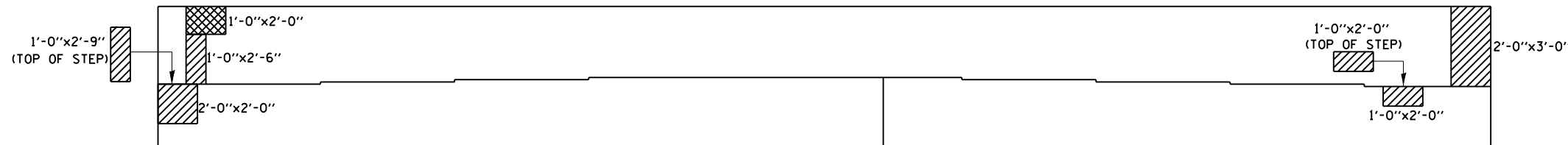
LEGEND:

 STRUCTURAL REPAIR OF CONCRETE <5"

FILE NAME =	USER NAME = gorengautab	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\gorengautab\d0101671\022-0022.dgn	DRAWN - MVT	REVISED -	347					2011-067-1	DUPAGE	29	8	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	PIER REPAIR S.N. 022-0022				CONTRACT NO. 60P86					
PLOT DATE = 12/14/2012	DATE - 12-20-2011	REVISED -	SCALE:		SHEET NO. 4 OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



**ELEVATION VIEW
WEST ABUTMENT
LOOKING WEST**



**ELEVATION VIEW
EAST ABUTMENT
LOOKING EAST**

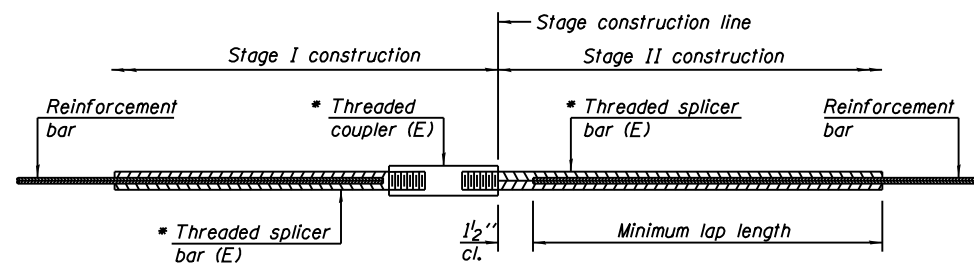
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE <5"	SQ.FT.	34
STRUCTURAL REPAIR OF CONCRETE >5"	SQ.FT.	2

LEGEND:

- STRUCTURAL REPAIR OF CONCRETE <5"
- STRUCTURAL REPAIR OF CONCRETE >5"

FILE NAME =	USER NAME = gorengautab	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER PIER REPAIR S.N. 022-0022	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\pwork\gorengautab\0101671\022-0022.dgn	DRAWN - MVT	REVISED -	347			2011-067-1	DUPAGE	29	9	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 60P86							
PLOT DATE = 12/14/2012	DATE - 12-20-2011	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:		SHEET NO. 5 OF 9 SHEETS		STA.	TO STA.					



STANDARD BAR SPLICER ASSEMBLY

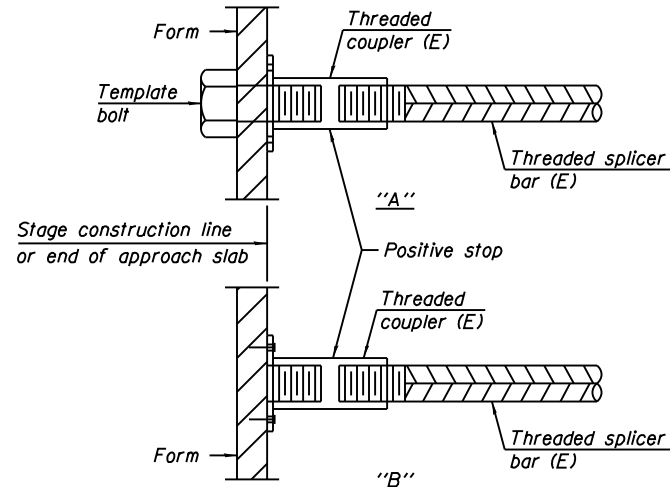
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

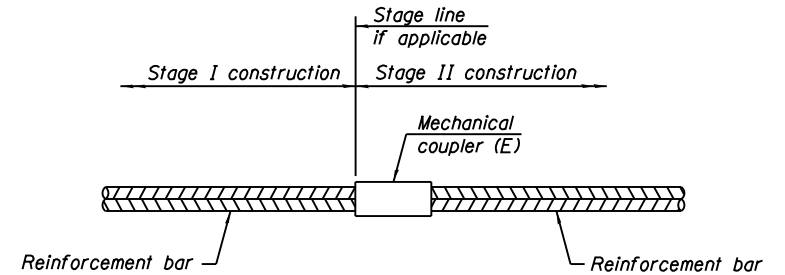
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutment	#6	4	3
Deck	#5	4	3



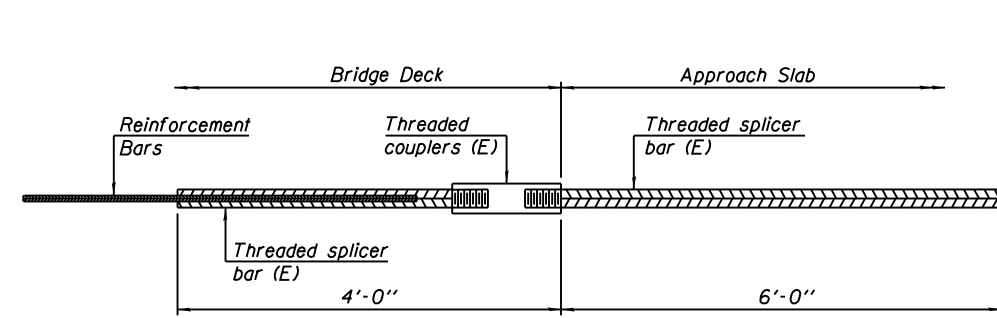
INSTALLATION AND SETTING METHODS

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



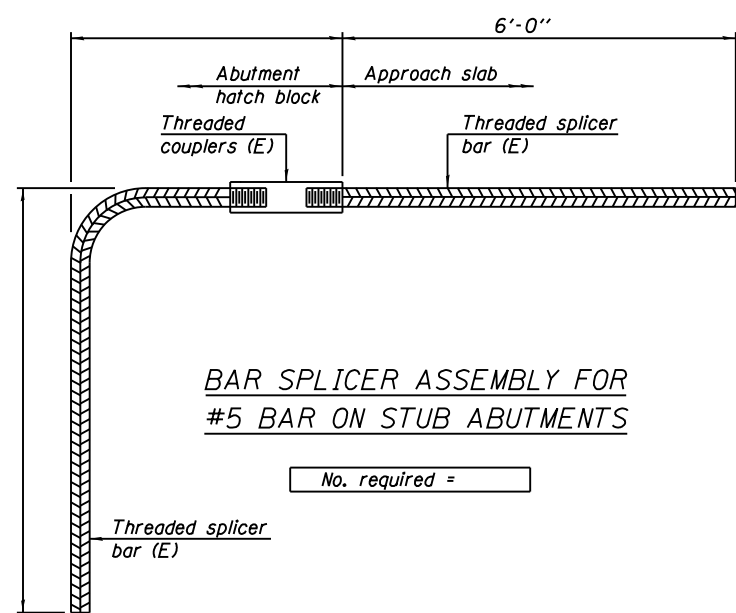
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

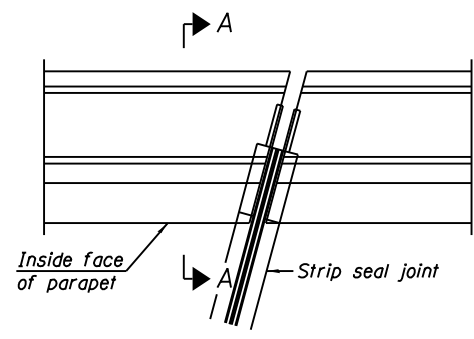
No. required =

NOTES
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

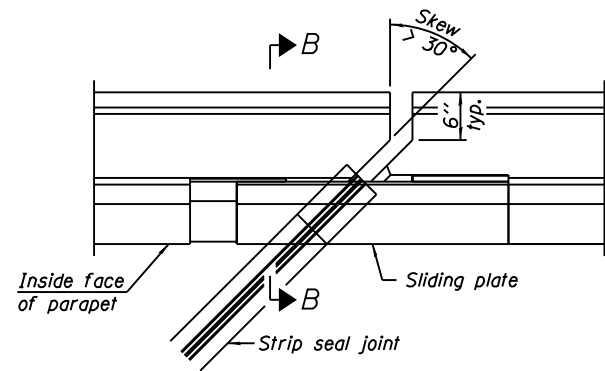
BSD-1

1-27-12

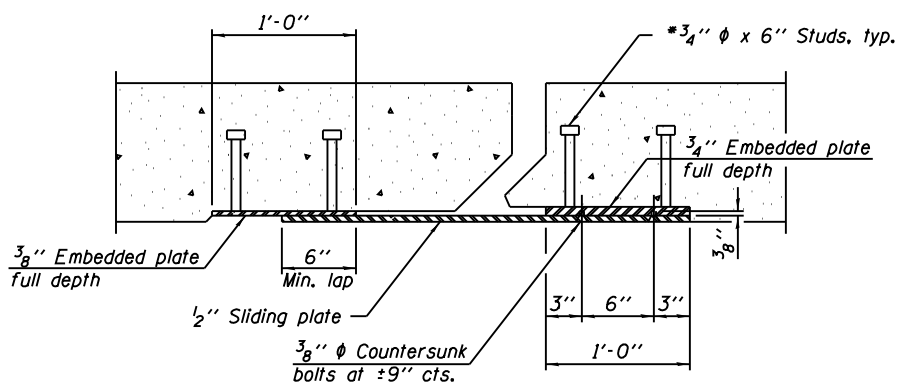
FILE NAME : c:\p\work\p\dot\gorengautab\d0101671\022-0022.dgn	USER NAME : gorengautab	DESIGNED : MVT	REVISED : -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER BAR SPLICER ASSEMBLY S.N. 022-0022			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 100.0000' / 1" =	CHECKED : -	REVISIED : -	347					2011-067-1	DUPAGE	29	10	
PLOT DATE : 12/14/2012	DATE : 12-20-2011	REVISIED : -	CONTRACT NO. 60P86					ILLINOIS FED. AID PROJECT				
SCALE:			SHEET NO. 6 OF 9 SHEETS					STA.	TO STA.			



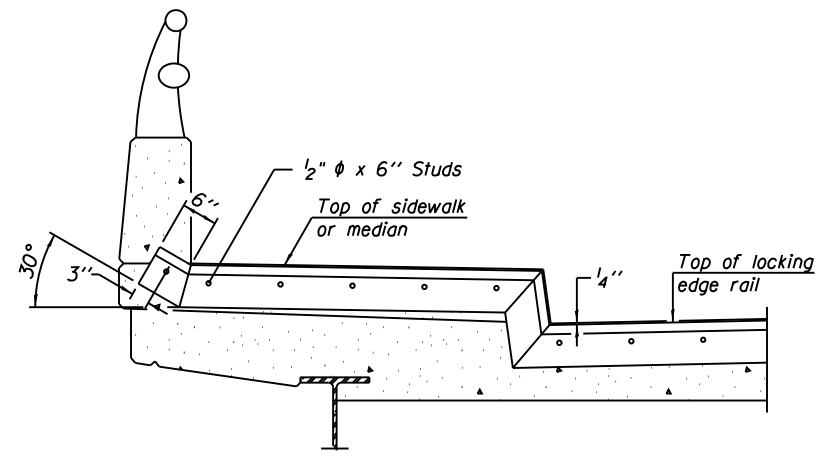
PLAN
(For skews $\leq 30^\circ$)



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

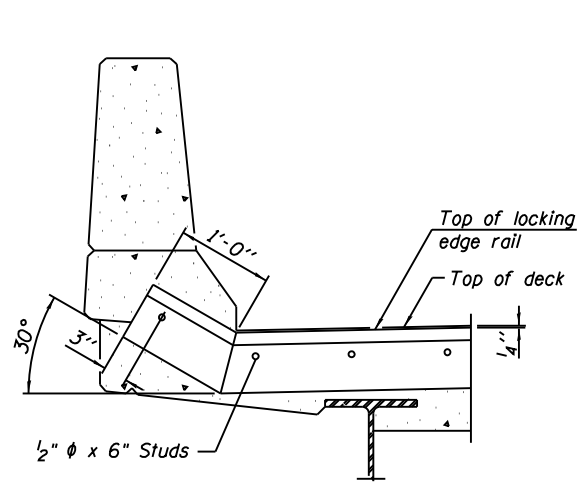


SECTION C-C

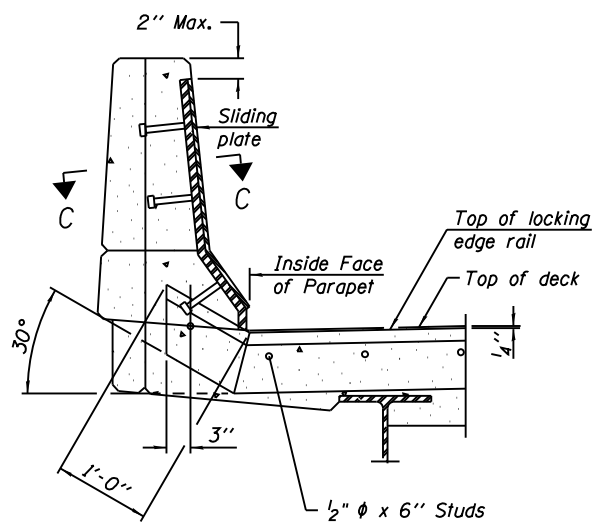


TYPICAL END TREATMENT
AT SIDEWALK OR MEDIAN

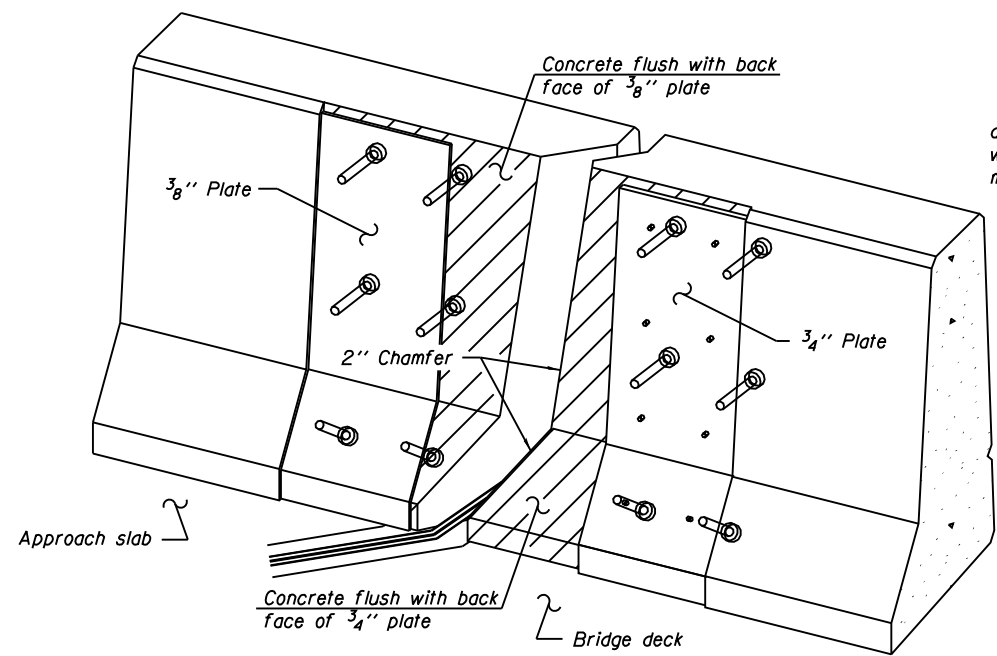
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



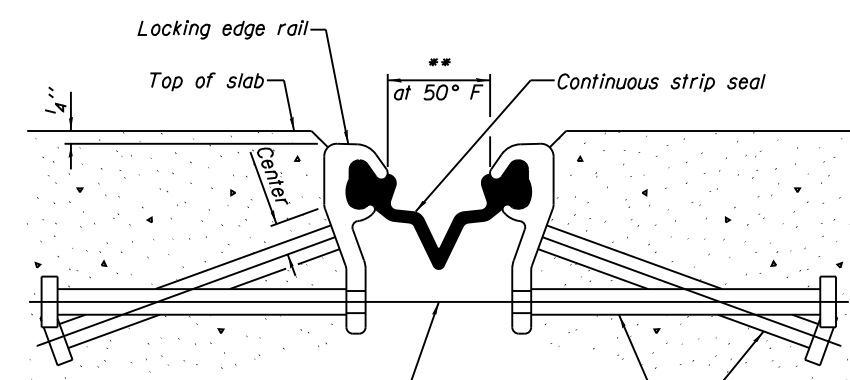
SECTION A-A



SECTION B-B



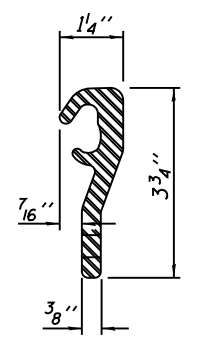
TRIMETRIC VIEW
(Showing back plates only)



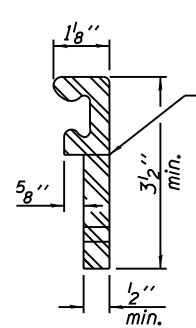
SECTION THRU STRIP SEAL JOINT
FOR OVERLAY OVER DECK BEAMS

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

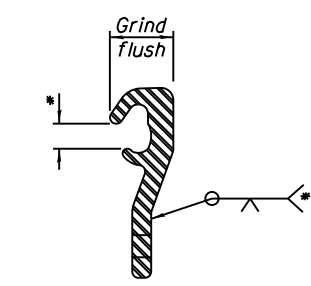
Place $1/2$ " ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.



ROLLED
(EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE
RAIL SPLICE

Rolled rail shown, welded rail similar.

- * Omit weld at seal opening.
- ** The minimum dimension shall be 1/2" for installation purposes.
- *** Back gouge not required if complete joint penetration is verified by mock-up.

NOTES:

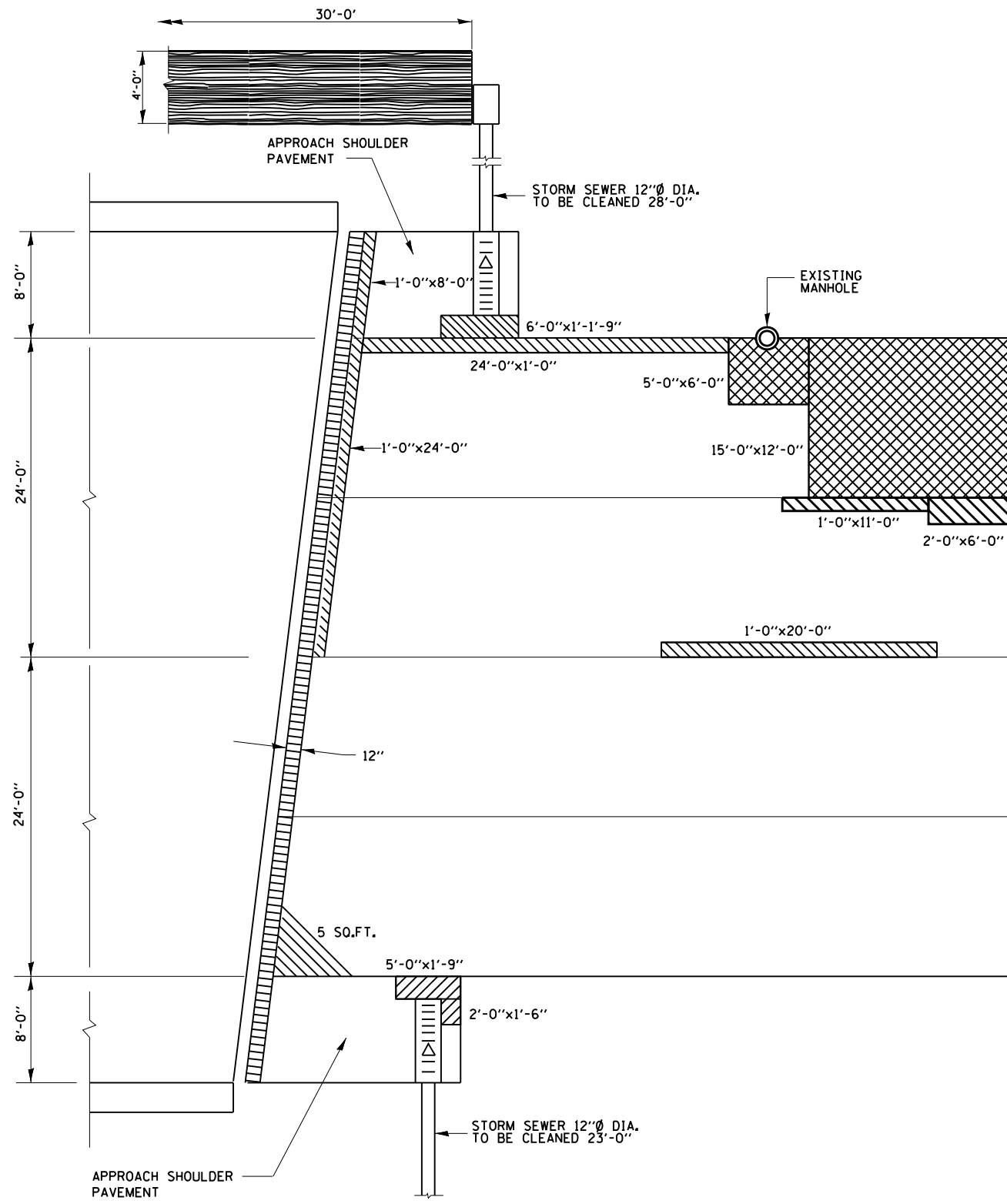
The strip seal shall be made continuous and shall have a minimum thickness of $1/4$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 Maximum space between rail segments at stage lines shall be $3/16$ ", sealed with a suitable sealant

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	134

EJ-SSJ 1-27-12

FILE NAME =	USER NAME = gorengautab	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER PREFORMED JOINT STRIP SEAL S.N. 022-0022	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 60P86				
PLOT DATE = 12/14/2012		DATE - 12-20-2011	REVISED -			ILLINOIS FED. AID PROJECT				



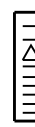





**PLAN
WEST APPROACH SLAB**

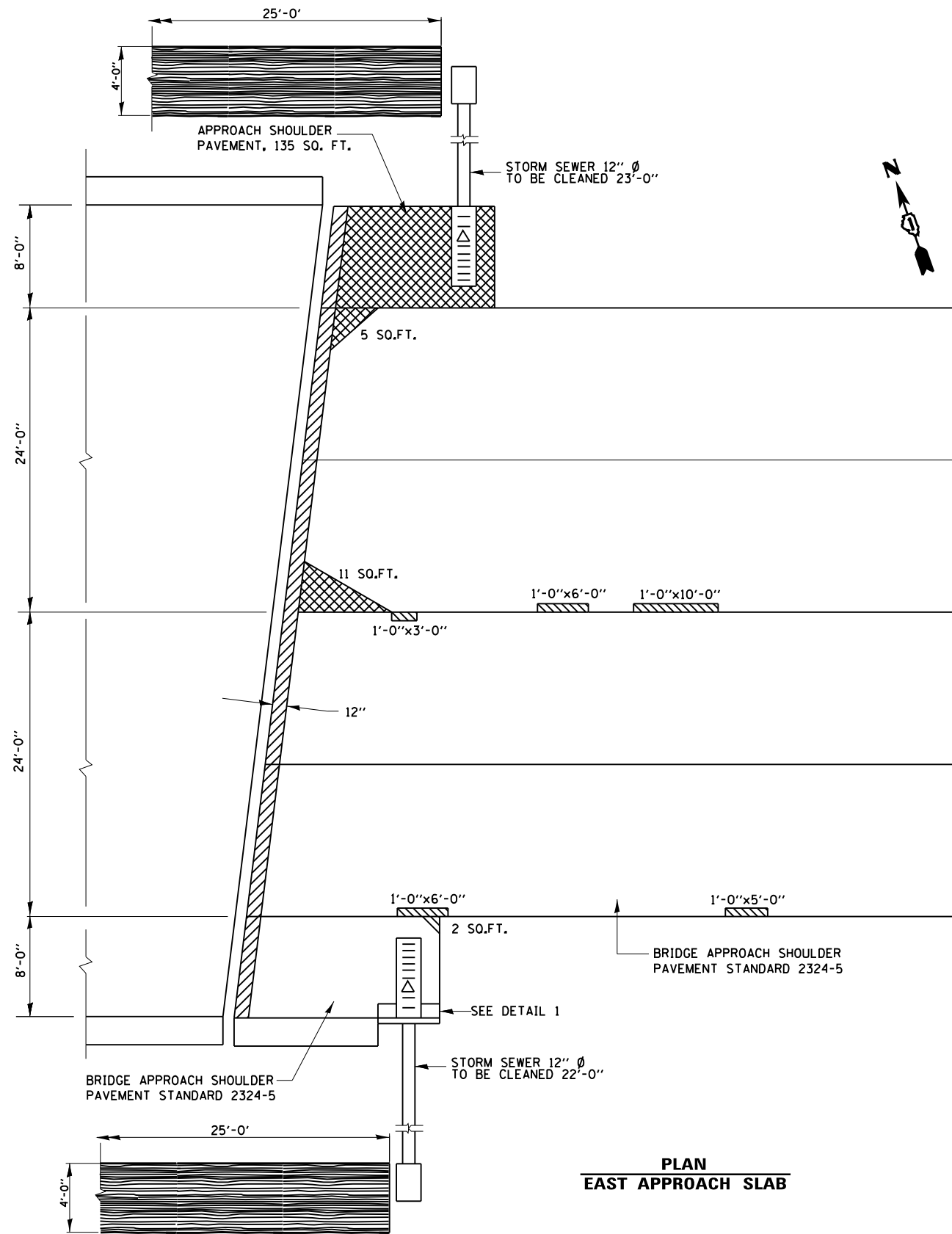
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO. YD.	14
APPROACH SLAB REPAIR (FULL DEPTH)	SO. YD.	24
DRAINAGE STRUCTURES TO BE CLEANED	EACH	2
FRAMES AND GRATES TO BE ADJUSTED	EACH	2
FRAMES AND LIDS TO BE ADJUSTED	EACH	1
STORM SEWERS TO BE CLEANED, 12"	FOOT	51

LEGEND:

-  APPROACH SLAB REPAIR (FULL DEPTH)
-  APPROACH SLAB REPAIR (PARTIAL DEPTH)
-  INLET BOX TO BE CLEANED
FRAMES AND GRATES TO BE ADJUSTED
-  FRAMES AND LIDS TO BE ADJUSTED
-  GRADING AND SHAPING DITCHES (SEE ROADWAY PLANS)
-  CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE SEE SHEET 2 OF 9

FILE NAME =	USER NAME = gorengautab	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER WEST APPROACH SLAB DETAILS S.N. 022-0022	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -	CONTRACT NO.60P86							
PLOT DATE = 12/14/2012	DATE - 12-20-2011	REVISED -	SCALE:			SHEET NO. 8 OF 9 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		



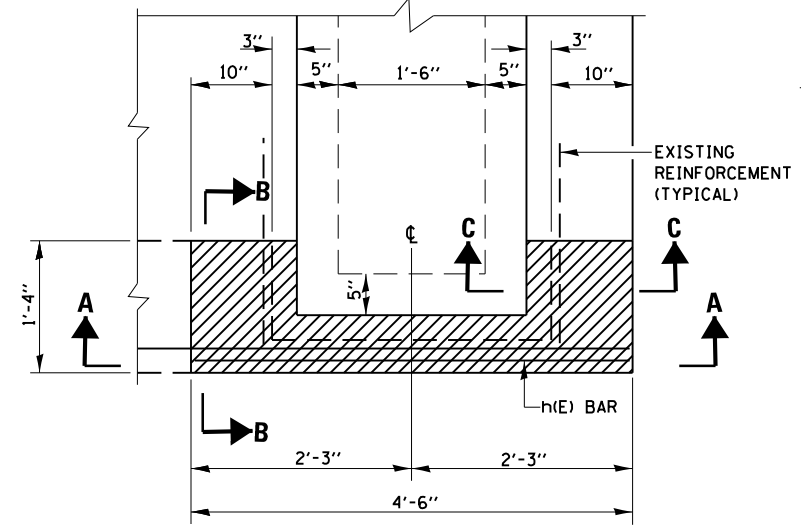
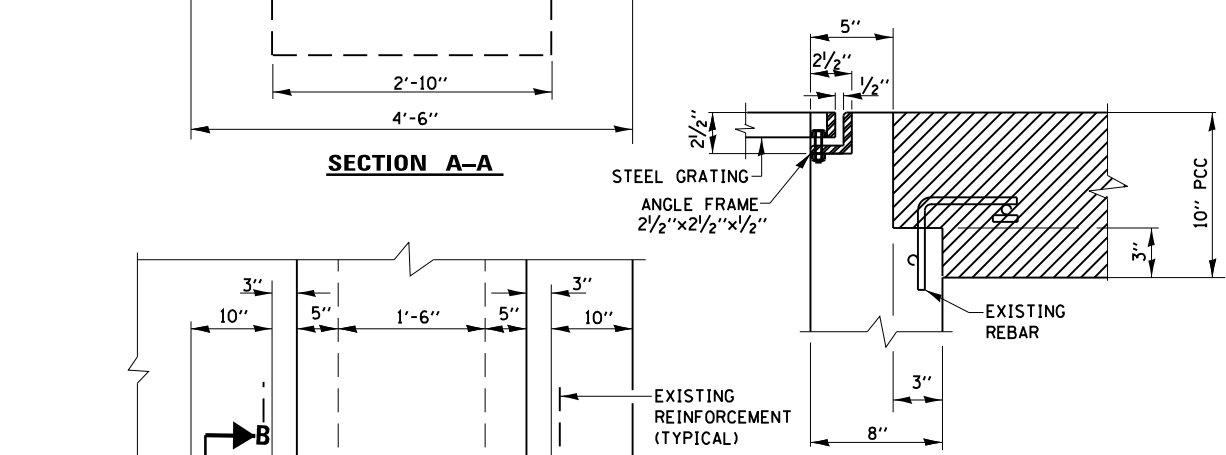
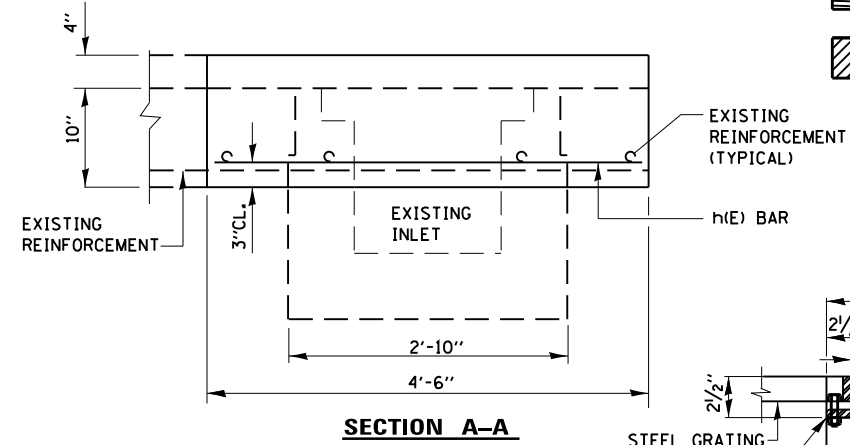
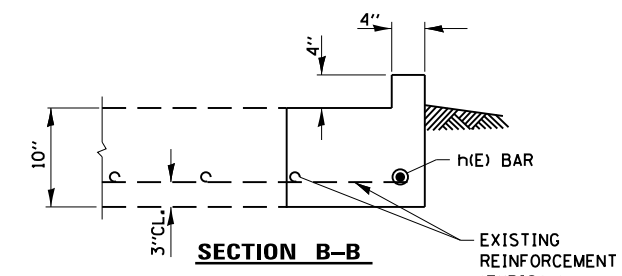
BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	1	#7	4'-2"	—

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO. YD.	3
APPROACH SLAB REPAIR (FULL DEPTH)	SO. YD.	17
FRAMES AND GRATES TO BE ADJUSTED	EACH	2
STORM SEWER TO BE CLEANED, 12"	FOOT	45
DRAINAGE STRUCTURES TO BE CLEANED	EACH	2
CONCRETE REMOVAL	CU. YD.	0.1
CONCRETE SUPERSTRUCTURE	CU. YD.	0.13
REINFORCEMENT BARS	POUND	10

- LEGEND:**
- APPROACH SLAB REPAIR (FULL DEPTH)
 - APPROACH SLAB REPAIR (PARTIAL DEPTH)
 - INLET BOX TO BE CLEANED, FRAMES AND GRATES TO BE ADJUSTED
 - GRADING AND SHAPING DITCHES (SEE ROADWAY PLANS)
 - CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE (SEE SHEET 2 OF 9)

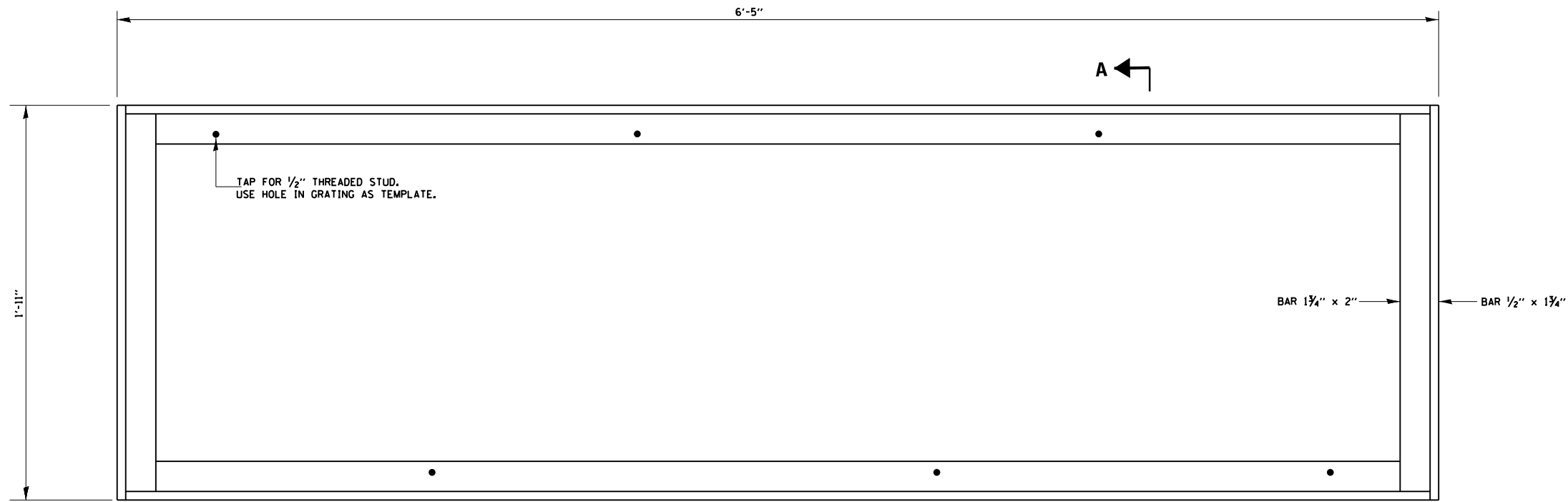


NOTE:
HATCHED AREA INDICATES CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE

FILE NAME =	USER NAME = gorengautab	DESIGNED - MVT	REVISED -
et:\pwork\pwork\gorengautab\d0101671\022-0022.dgn		DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED -
PLOT DATE = 12/14/2012		DATE - 12-20-2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

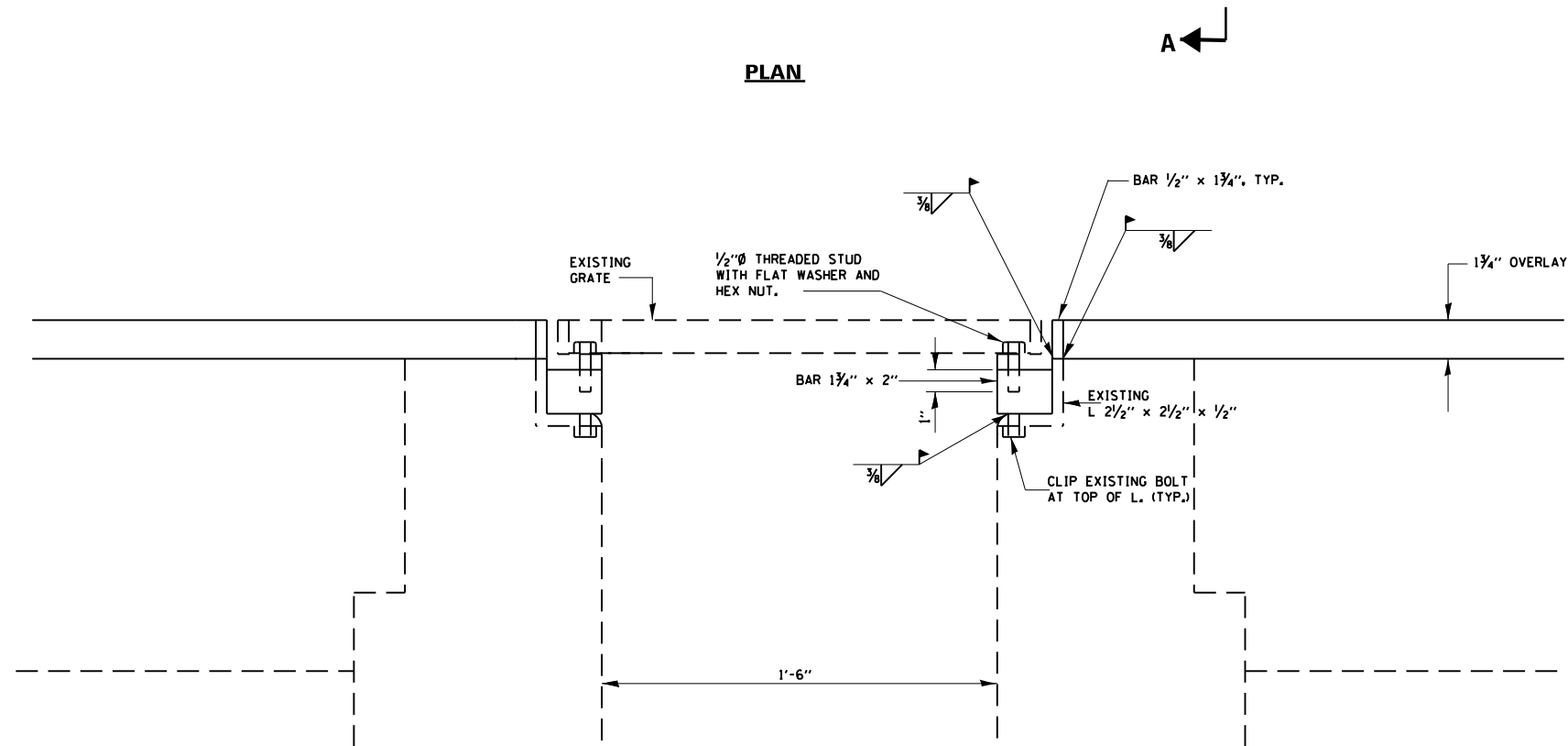
ILL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EAST APPROACH SLAB DETAILS		347	2011-067-1	DuPAGE	29	13
S.N. 022-0022		CONTRACT NO. 60P86		ILLINOIS FED. AID PROJECT		
SCALE:	SHEET NO. 9 OF 9 SHEETS	STA.	TO STA.			



GENERAL NOTES:

THE ADJUSTING SCUPPER RING SHALL BE GALVANIZED.
 BOLTS SHALL BE 1/2"Ø, AASHTO M164 TYPE I, MECHANICALLY GALVANIZED.
 THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE IS DONE TO EXISTING GRATES TO BE REUSED.
 SHOP PLANS FOR PROPOSED ADJUSTING SCUPPER RING SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
 COST OF ALL LABOR AND MATERIALS NECESSARY TO REMOVE EXISTING GRATES, CLEAN EXISTING SCUPPERS, INSTALL ADJUSTING SCUPPER RINGS AND REINSTALLING GRATES IS INCLUDED IN THE COST PER UNIT EACH FOR "FRAMES AND GRATES TO BE ADJUSTED".

PLAN

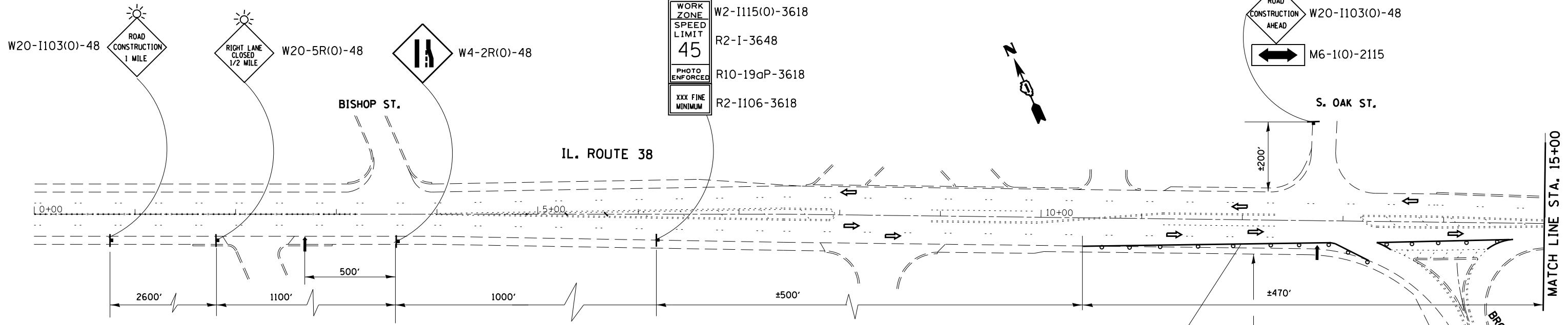


SECTION A-A

BILL OF MATERIALS

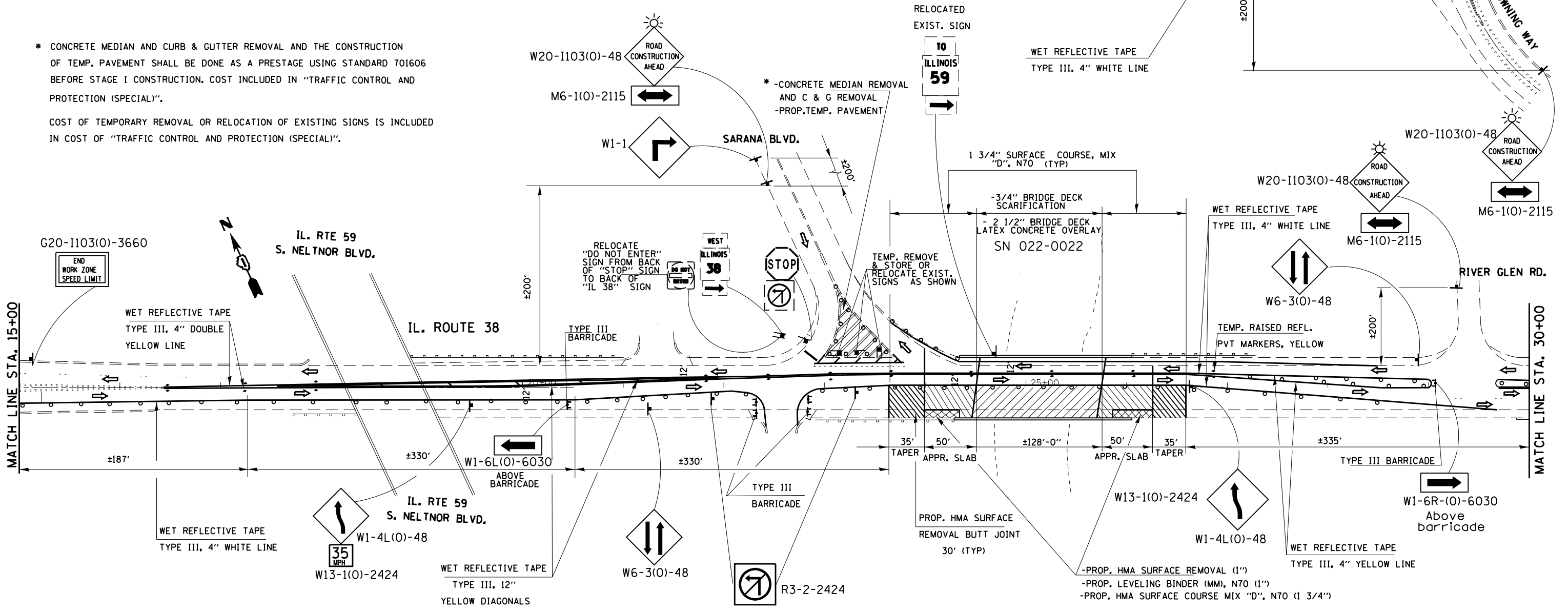
ITEM	UNIT	QUANTITY
FRAMES AND GRATES TO BE ADJUSTED	EACH	4

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILL 38 (ROOSEVELT ROAD) AT WEST BRANCH DUPAGE RIVER ADJUSTING EXISTING SCUPPER S.N. 022-0022	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\gorengautab\d0101671\022-0022.dgn		DRAWN -	REVISED -			347	2011-067-1	DuPAGE	29	14
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PLOT DATE = 12/14/2012		DATE -	REVISED -			SCALE:	SHEET 9A OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

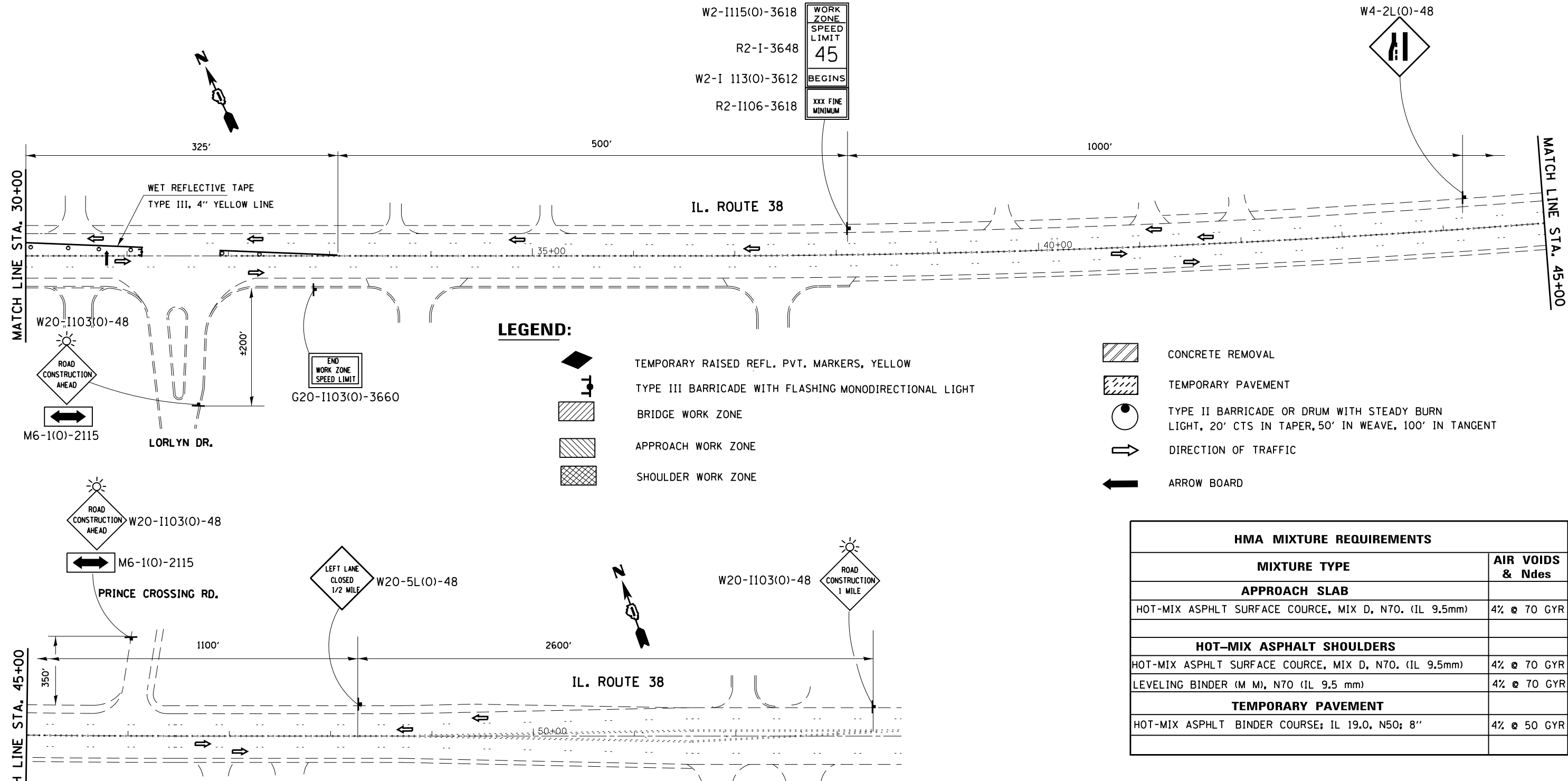


* CONCRETE MEDIAN AND CURB & GUTTER REMOVAL AND THE CONSTRUCTION OF TEMP. PAVEMENT SHALL BE DONE AS A PRESTAGE USING STANDARD 701606 BEFORE STAGE I CONSTRUCTION. COST INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

COST OF TEMPORARY REMOVAL OR RELOCATION OF EXISTING SIGNS IS INCLUDED IN COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".



FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER TRAFFIC CONTROL PLAN. STAGE I (SN 022-0022)	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 97.7273' / 1"		CHECKED -	REVISED -			CONTRACT NO. 60P86					
PLOT DATE = 5/8/2013		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



LEGEND:

- TEMPORARY RAISED REFL. PVT. MARKERS, YELLOW
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHT
- BRIDGE WORK ZONE
- APPROACH WORK ZONE
- SHOULDER WORK ZONE

- CONCRETE REMOVAL
- TEMPORARY PAVEMENT
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT, 20' CTS IN TAPER, 50' IN WEAVE, 100' IN TANGENT
- DIRECTION OF TRAFFIC
- ARROW BOARD

HMA MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS & Ndes
APPROACH SLAB	
HOT-MIX ASPHLT SURFACE COURSE, MIX D, N70. (IL 9.5mm)	4% @ 70 GYR
HOT-MIX ASPHALT SHOULDERS	
HOT-MIX ASPHLT SURFACE COURSE, MIX D, N70. (IL 9.5mm)	4% @ 70 GYR
LEVELING BINDER (M M), N70 (IL 9.5 mm)	4% @ 70 GYR
TEMPORARY PAVEMENT	
HOT-MIX ASPHLT BINDER COURSE; IL 19.0, N50; 8"	4% @ 50 GYR

NOTES:

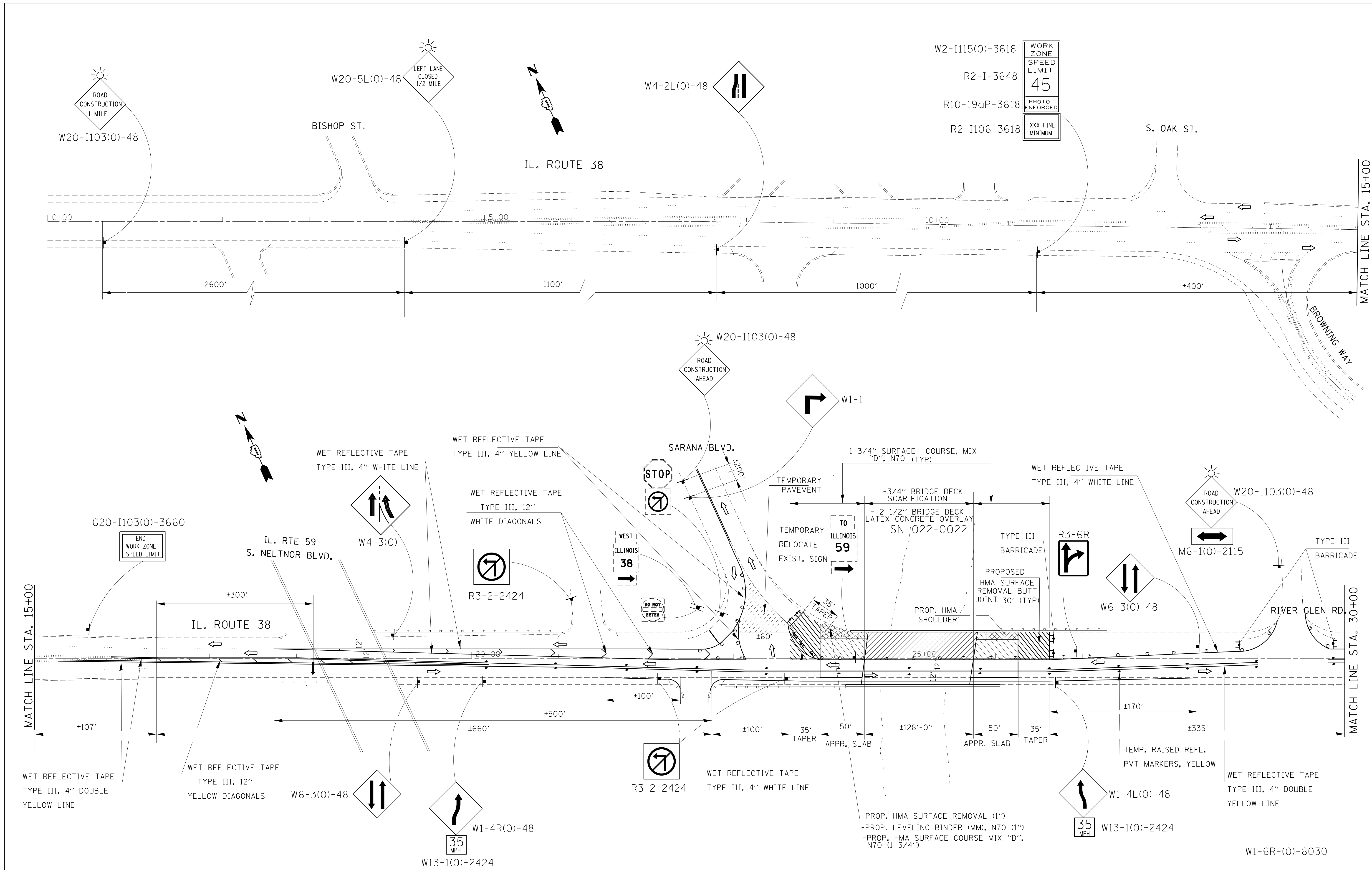
- 1 EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
- 2 ALL SIGNS SHALL BE POST LANE MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR HOURS.
- 3 CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 250' ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.

THE "AC" TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS / SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER TRAFFIC CONTROL PLAN. STAGE I (SN 022-0022)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\gorengautab\d0273151\0162311-sht-plan.dgn	DRAWN -	REVISED -	347			2011-067-1	DUPAGE	29	16	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 60P86							
PLOT DATE = 5/8/2013	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



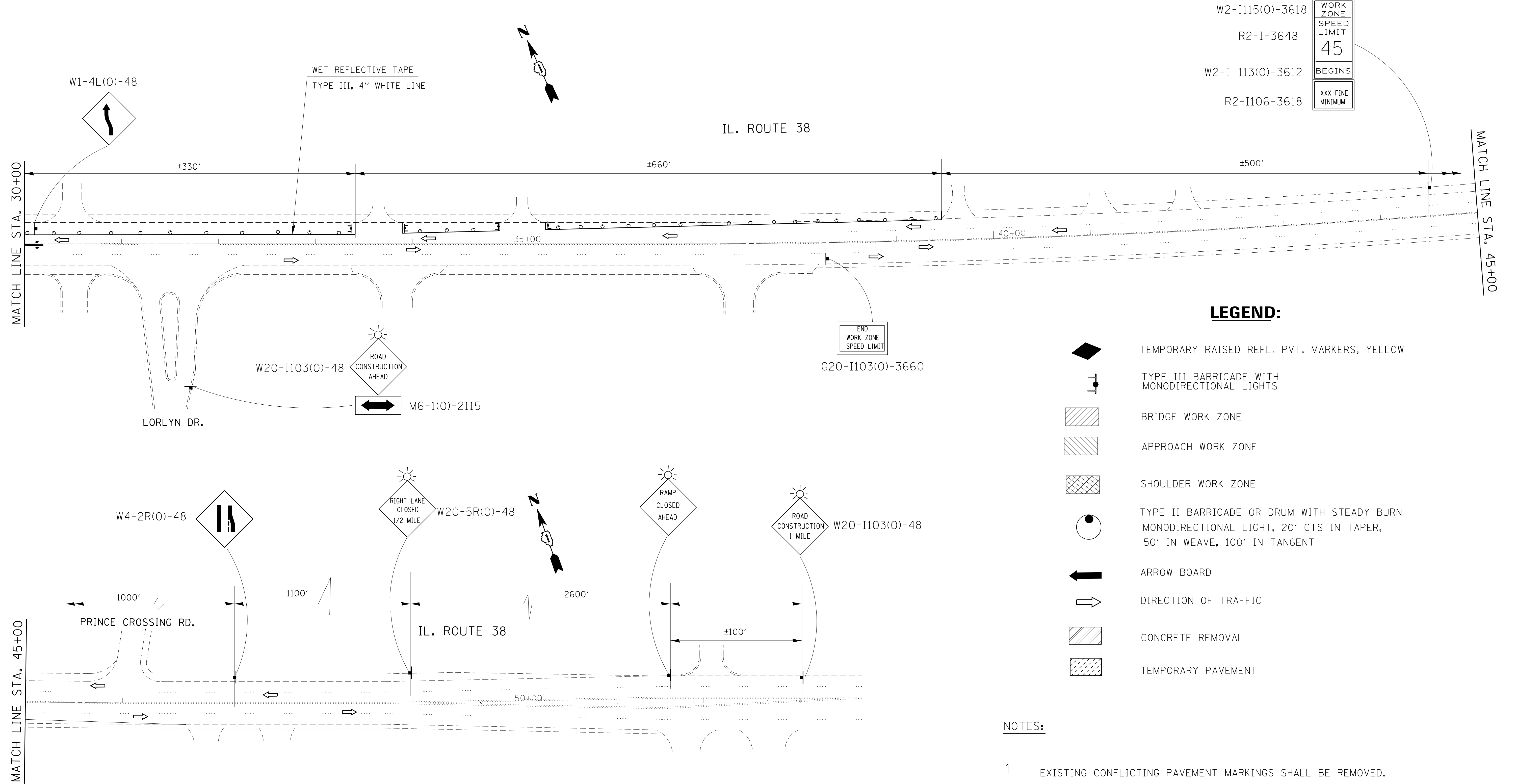
FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -
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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/8/2013	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER
TRAFFIC CONTROL PLAN, STAGE II (SN 022-0022)**



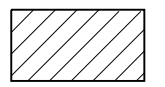





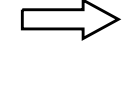

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2011-067-I	DUPAGE	29	17
CONTRACT NO. 60P86			ILLINOIS FED. AID PROJECT	

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



W2-I115(O)-3618
R2-I-3648
W2-I 113(O)-3612
R2-I106-3618
WORK ZONE
SPEED LIMIT
45
BEGINS
XXX FINE MINIMUM

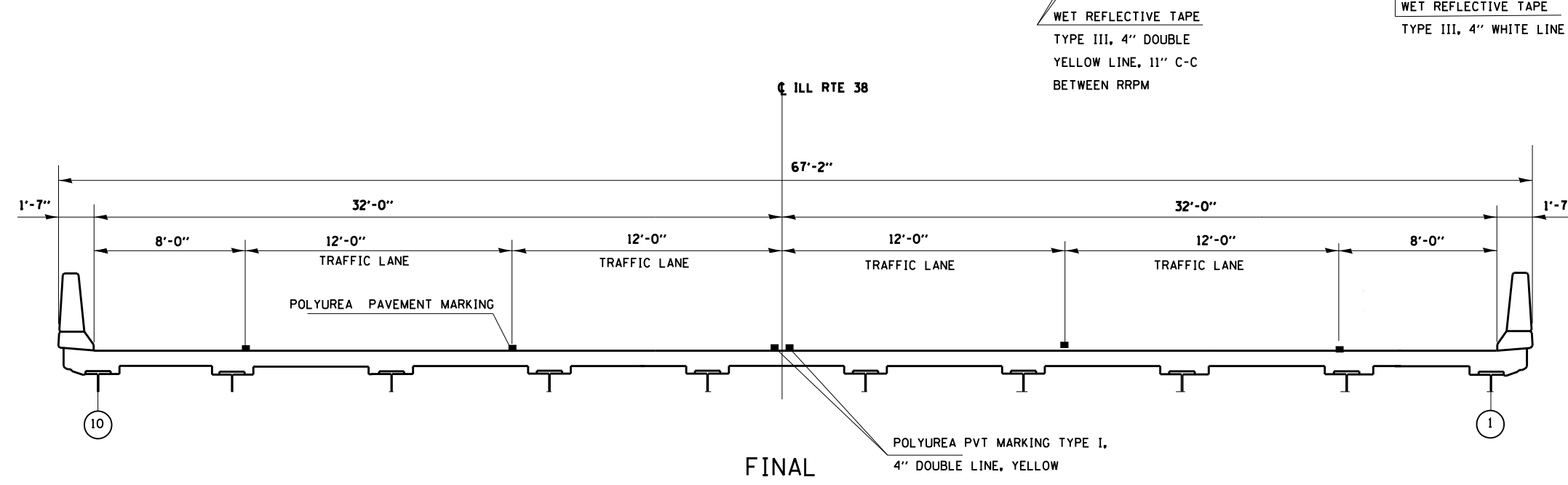
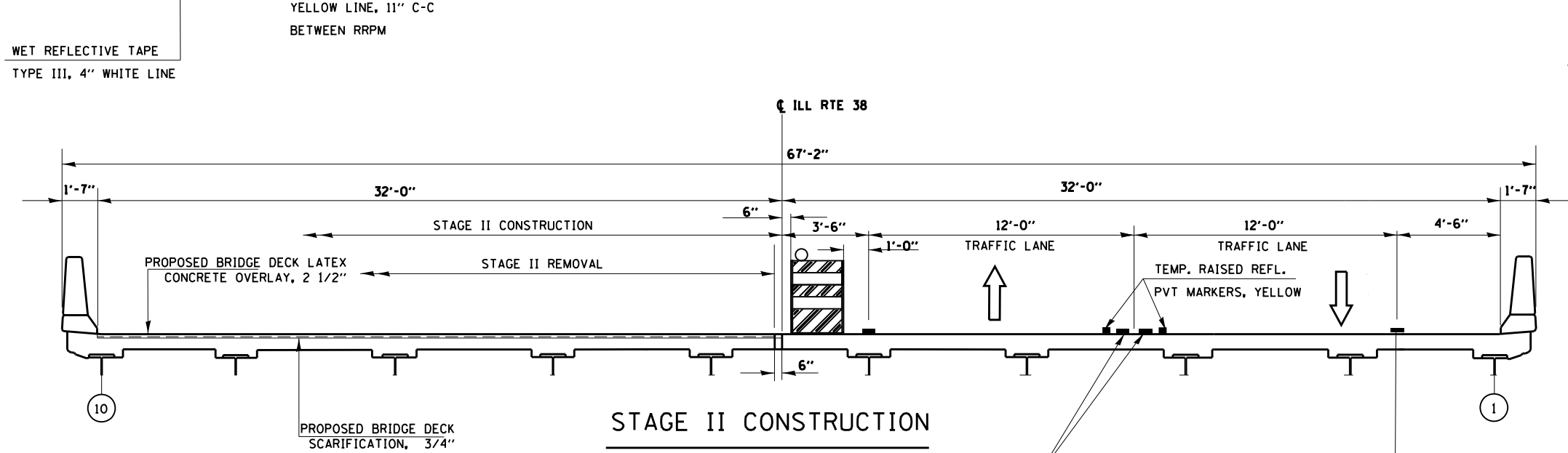
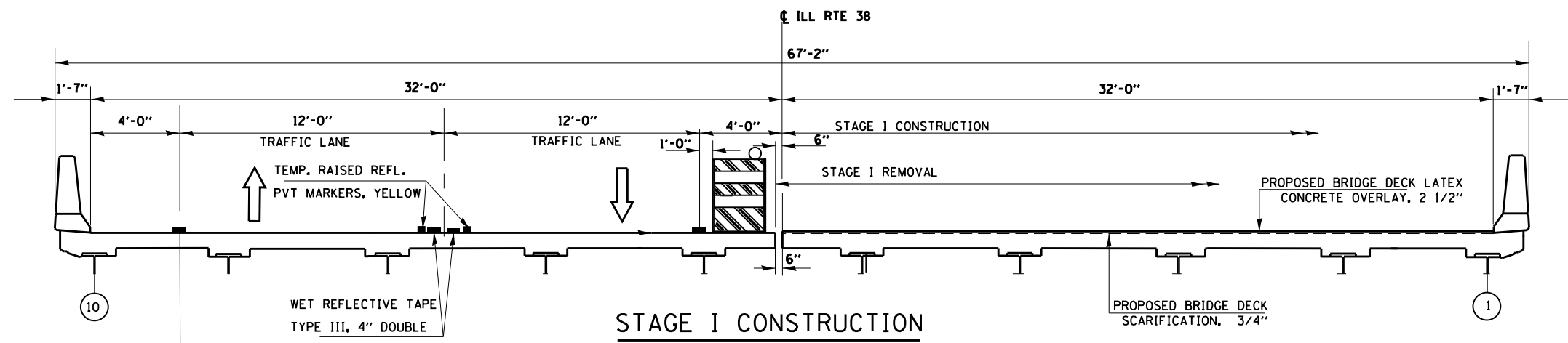
LEGEND:

-  TEMPORARY RAISED REFL. PVT. MARKERS, YELLOW
-  TYPE III BARRICADE WITH MONODIRECTIONAL LIGHTS
-  BRIDGE WORK ZONE
-  APPROACH WORK ZONE
-  SHOULDER WORK ZONE
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT, 20' CTS IN TAPER, 50' IN WEAVE, 100' IN TANGENT
-  ARROW BOARD
-  DIRECTION OF TRAFFIC
-  CONCRETE REMOVAL
-  TEMPORARY PAVEMENT

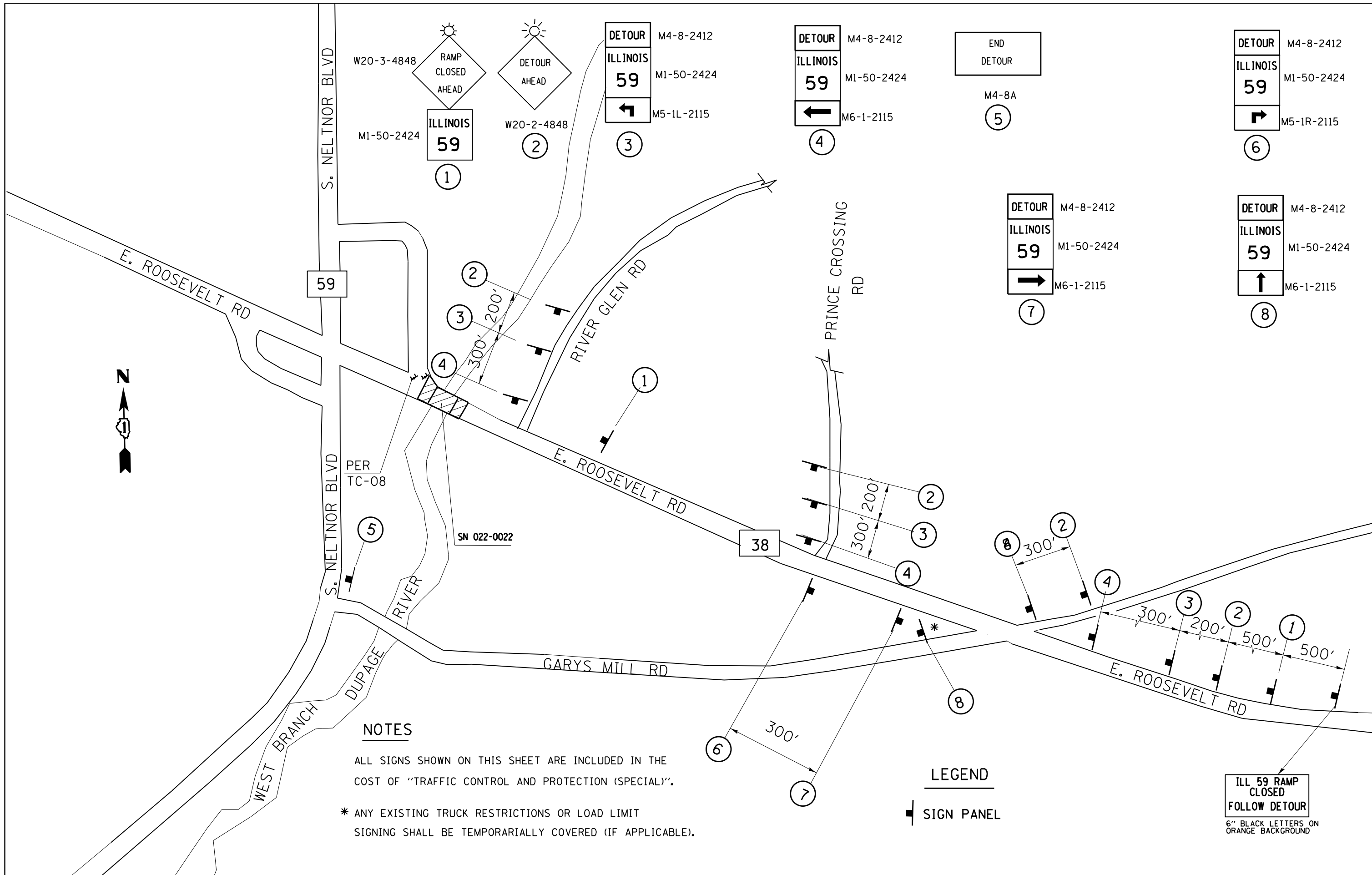
NOTES:

- 1 EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
- 2 ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR HOURS.
- 3 CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 250' ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE.

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER TRAFFIC CONTROL PLAN. STAGE II (SN 022-0022)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p\dot\gorengautab\d0273151\	162311-sht-plan.dgn	DRAWN -	REVISED -			347	2011-067-I	DUPAGE	29	18	
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60P86					
	PLOT DATE = 5/8/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.		



FILE NAME =	USER NAME = gorengautab	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER TRAFFIC STAGING S.N. 022-0022	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\idot\gorengautab\d027315\162311-sht-plan.dgn	PLOT SCALE = 100.0000' / in.	DRAWN - MVT	REVISED -			347	2011-067-1	DUPAGE	29	19	
PLOT DATE = 12/14/2012	DATE -	CHECKED - RB	REVISED -			CONTRACT NO. 60P86					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



NOTES

ALL SIGNS SHOWN ON THIS SHEET ARE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

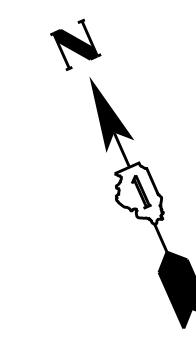
* ANY EXISTING TRUCK RESTRICTIONS OR LOAD LIMIT SIGNING SHALL BE TEMPORARILY COVERED (IF APPLICABLE).

LEGEND

■ SIGN PANEL

ILL 59 RAMP CLOSED FOLLOW DETOUR
6" BLACK LETTERS ON ORANGE BACKGROUND

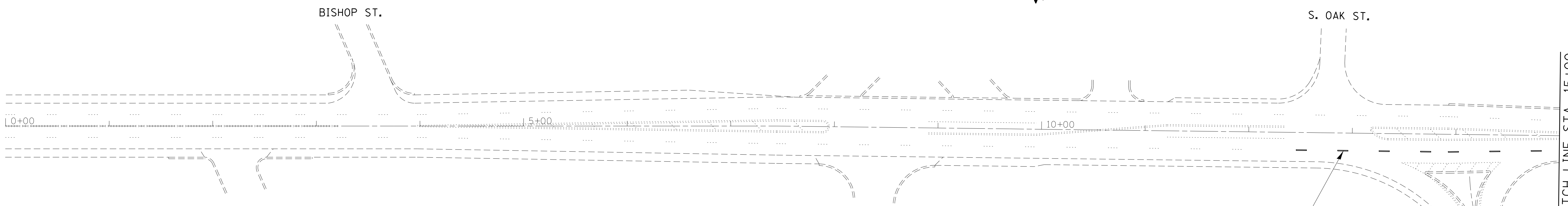
FILE NAME :	USER NAME : gorengeautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR WB IL 38 TO IL 59 (NELTNOR BLVD) RAMP. STAGE II	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\idot\gorengeautab\d0273151\162311-shr-plan.dgn	162311-shr-plan.dgn	DRAWN -	REVISED -			347	2011-067-1	DUPAGE	29	20	
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 60P86					
PLOT DATE = 12/14/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



IL. ROUTE 38

BISHOP ST.

S. OAK ST.



NOTE:

ISLAND MEDIAN TO BE CONSTRUCTED USING TRAFFIC STANDARD 701606,
COST INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

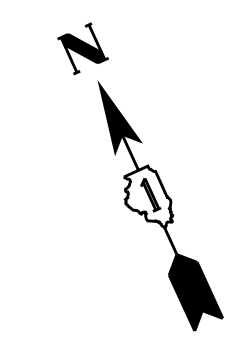
* EXISTING SIGNS TO BE PLACED BACK TO THEIR ORIGINAL LOCATIONS, EXCEPT
"DO NOT ENTER" SIGN SHALL BE RELOCATED FROM BACK OF "STOP" SIGN
TO BACK OF "IL 38" SIGN.

POLYUREA PVT MARKING
TYPE I, 4" SKIP-DASH LINE,
WHITE, 10' LONG, 30' SPACE

BROWNING WAY

PROP. P.C.C. MEDIAN SURFACE, 4"
(SEE DETAIL "A")

PROP. COMB. CONC. C & G, TYPE M-6.12



MATCH LINE STA. 15+00

IL. ROUTE 38

IL. RTE 59
S. NELTNOR BLVD.

POLYUREA PVT MARKING
TYPE I, 4" DOUBLE LINE,
YELLOW

SARANA BLVD.

WEST
ILLINOIS
38

* EXIST. SIGNS

TO
ILLINOIS
59

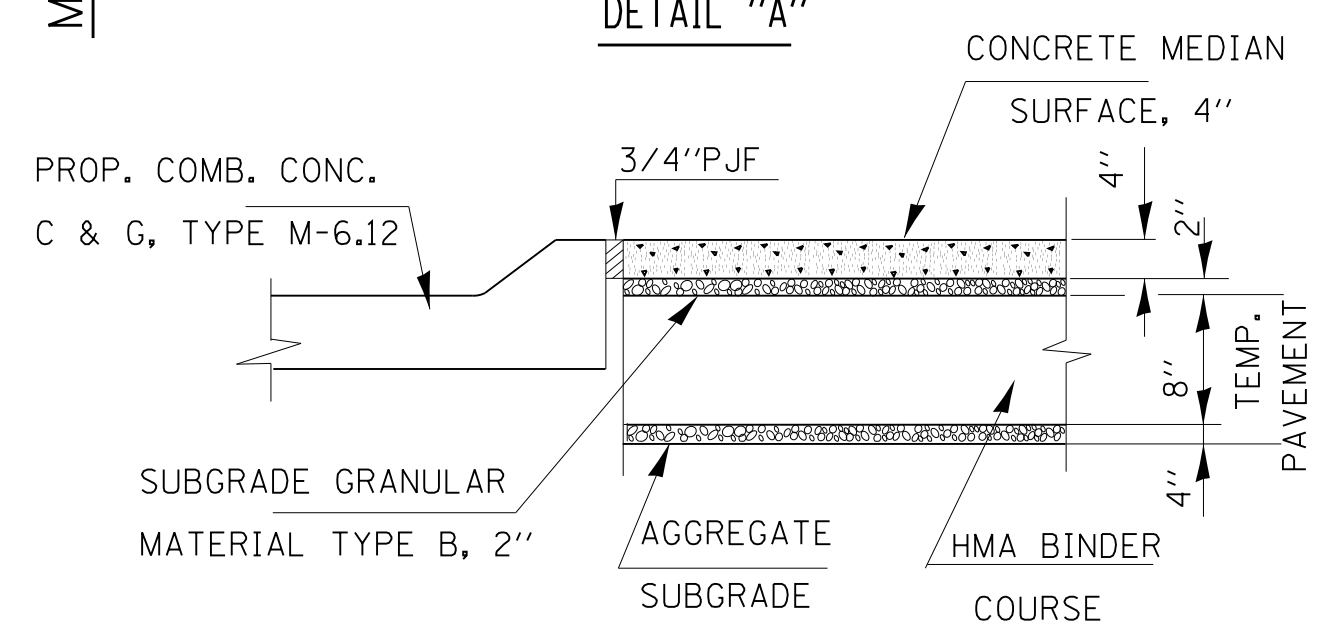
RIVER GLEN RD.

MATCH LINE STA. 30+00

20+00

25+00

DETAIL "A"



IL. RTE 59
S. NELTNOR BLVD.

POLYUREA PVT MARKING
TYPE I, 8" LINE, WHITE

POLYUREA PVT MARKING
TYPE I, 4" SKIP-DASH LINE,
WHITE, 10' LONG, 30' SPACE

POLYUREA PVT MARKING
TYPE I, 12" DIAGONALS,
WHITE

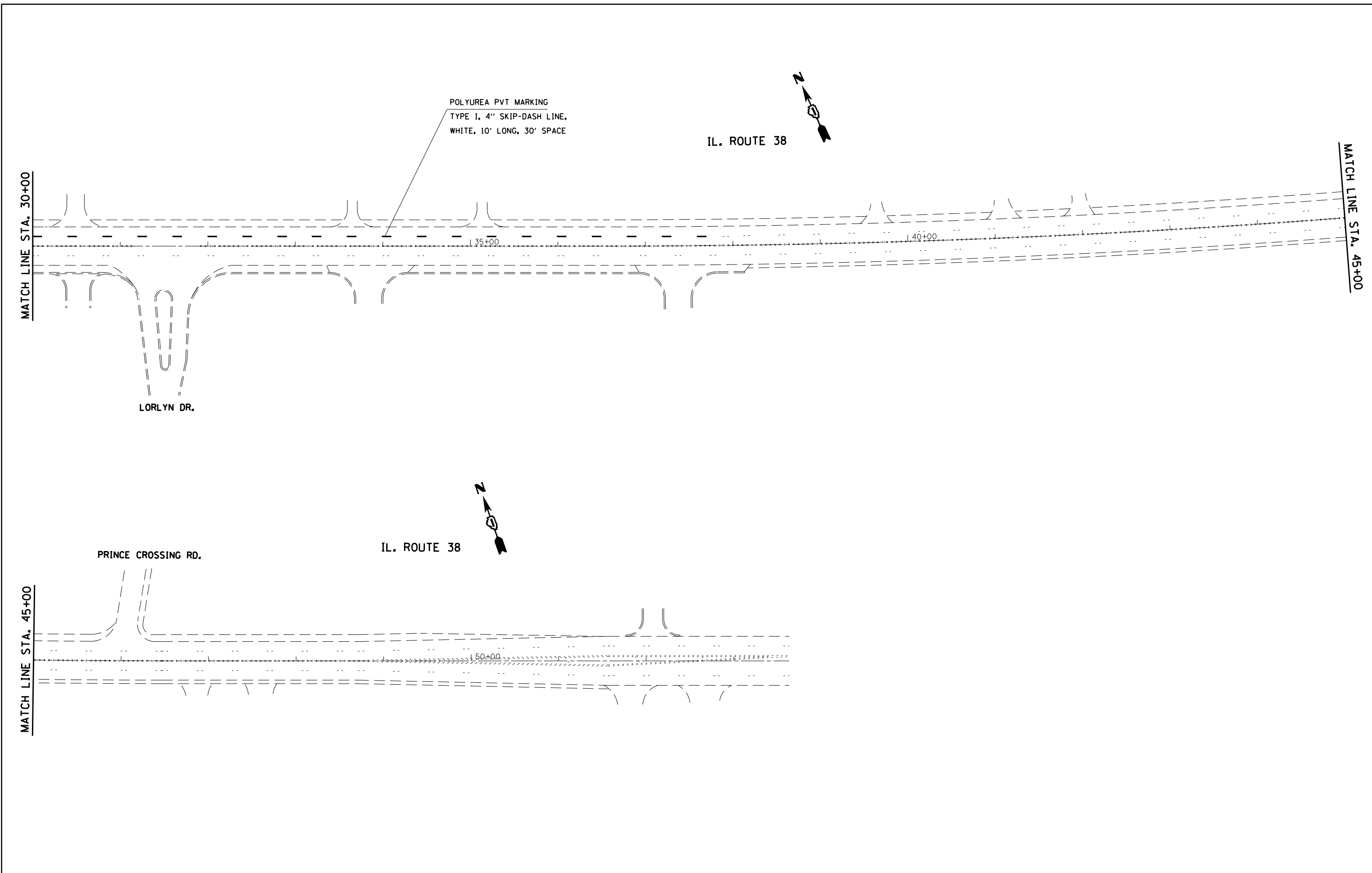
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER
FINAL PAVEMENT MARKING PLAN (SN 022-0022)**

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	162311-sht-plan.dgn	CHECKED -	REVISED -
	PLOT SCALE = 50.0000' / in.	DATE -	REVISED -
	PLOT DATE = 5/8/2013		

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE. 347	SECTION 2011-067-I	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 21
CONTRACT NO. 60P86				ILLINOIS FED. AID PROJECT



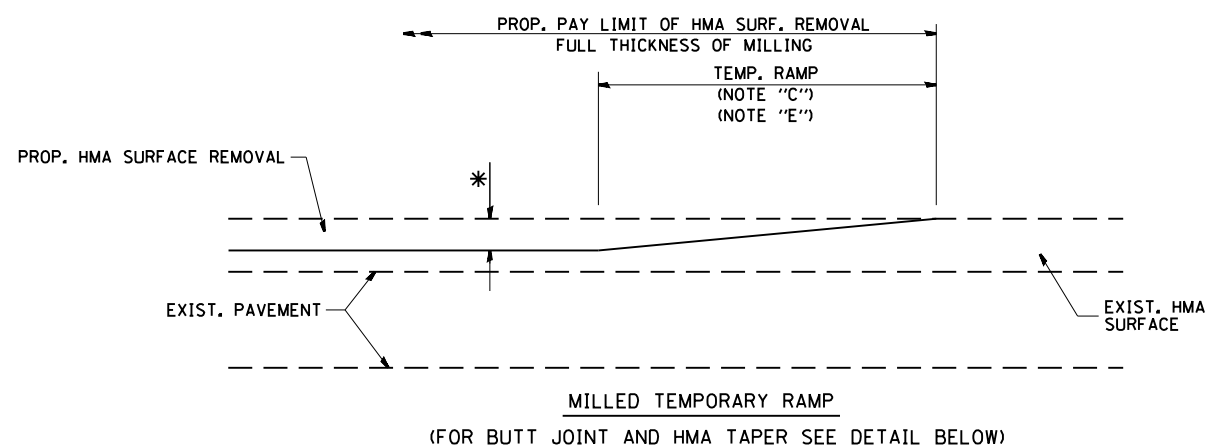
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

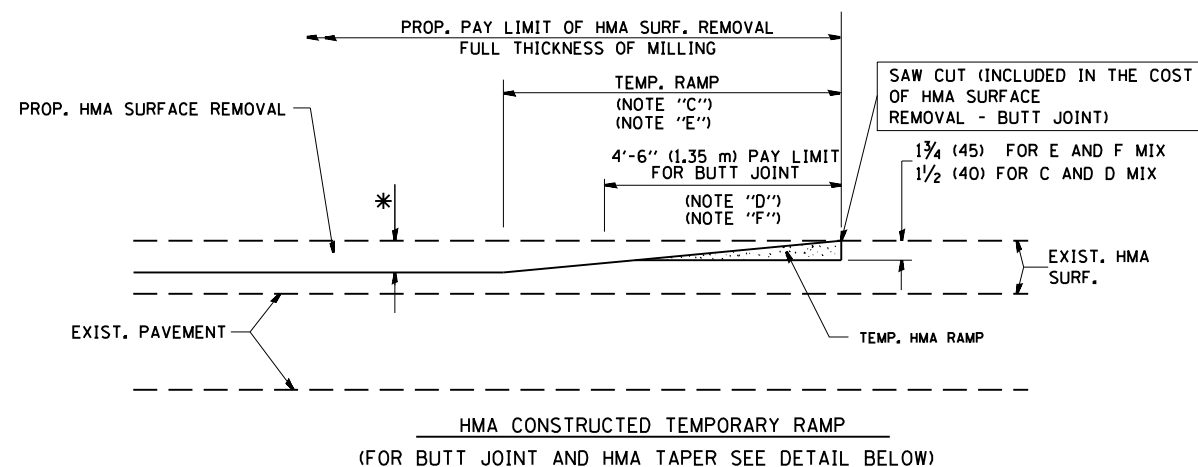
**IL 38 (ROOSEVELT RD) AT WEST BRANCH DUPAGE RIVER
FINAL PAVEMENT MARKING PLAN (SN 022-0022)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2011-067-1	DUPAGE	29	22
CONTRACT NO. 60P86				
ILLINOIS FED. AID PROJECT				

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

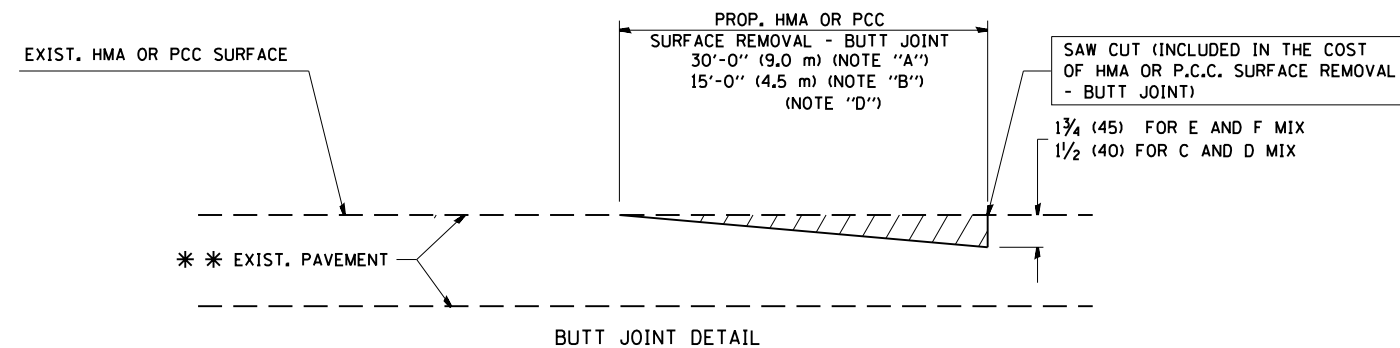


OPTION 1

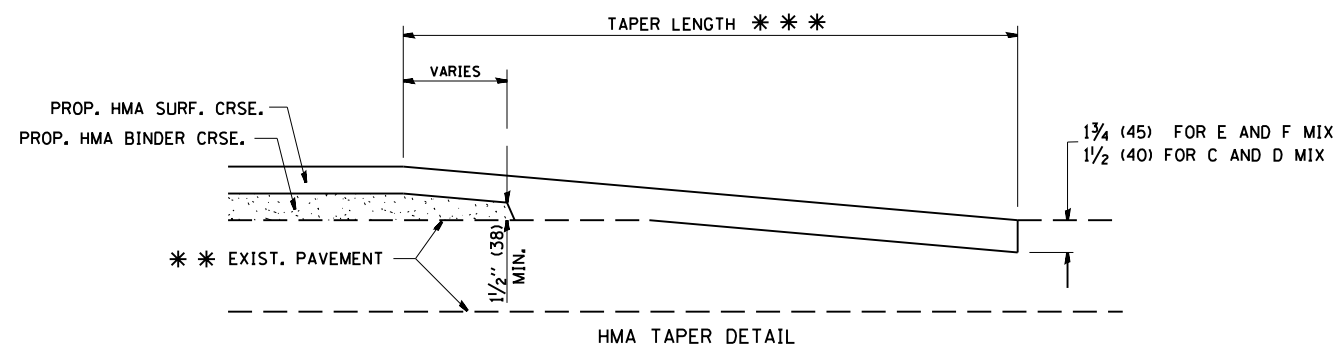


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

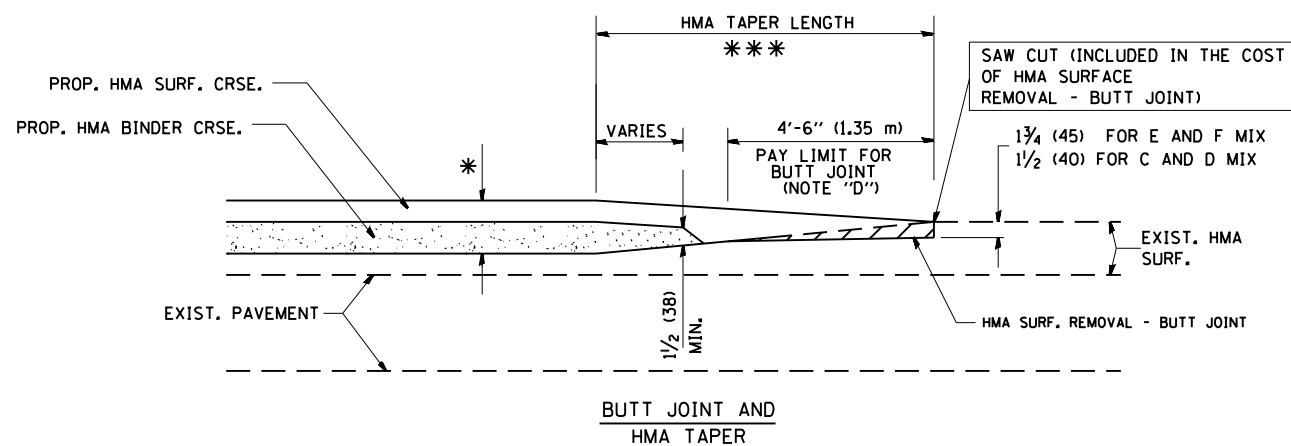
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

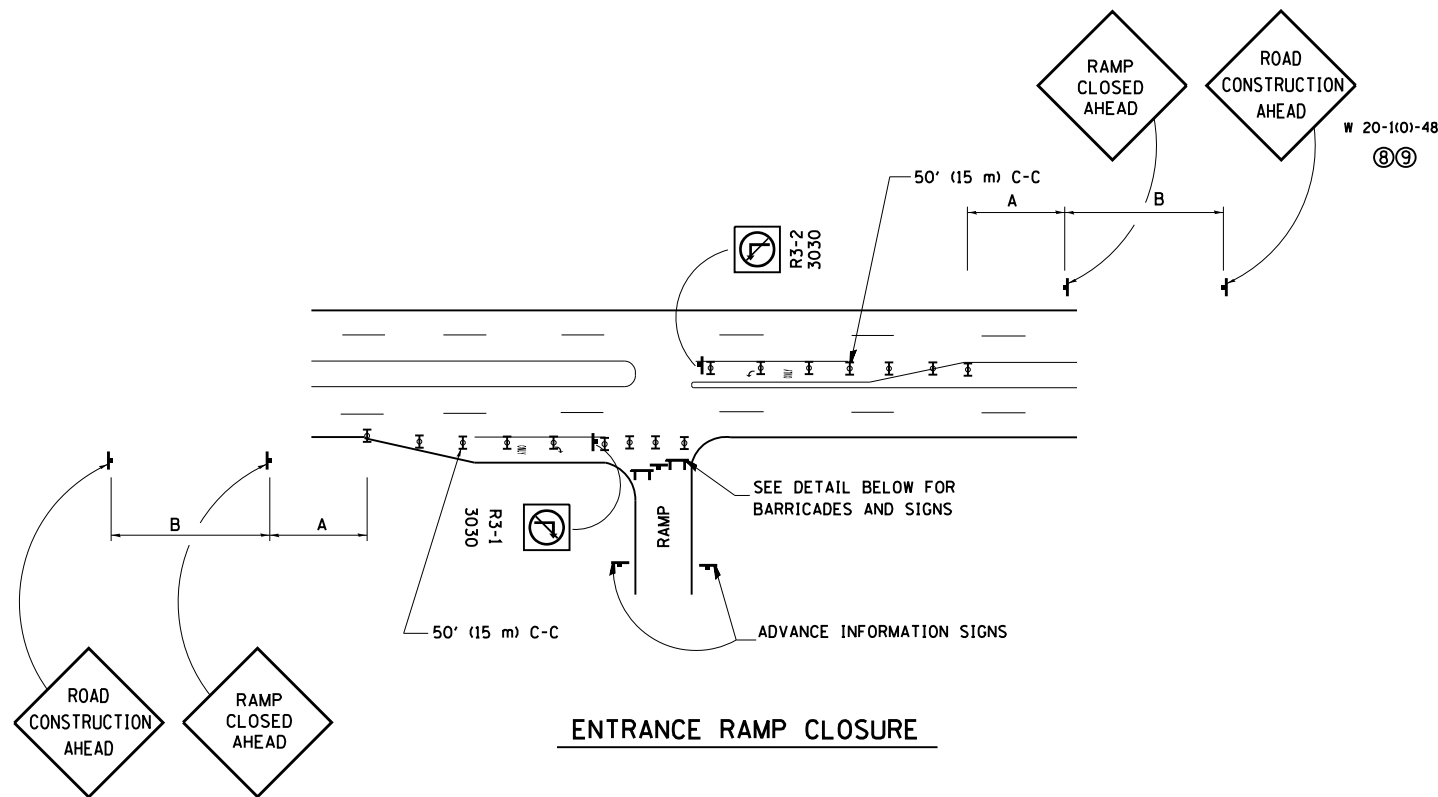
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 12/14/2012	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2011-067-1	DUPAGE	29	23
BD400-05 BD32		CONTRACT NO. 60P86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



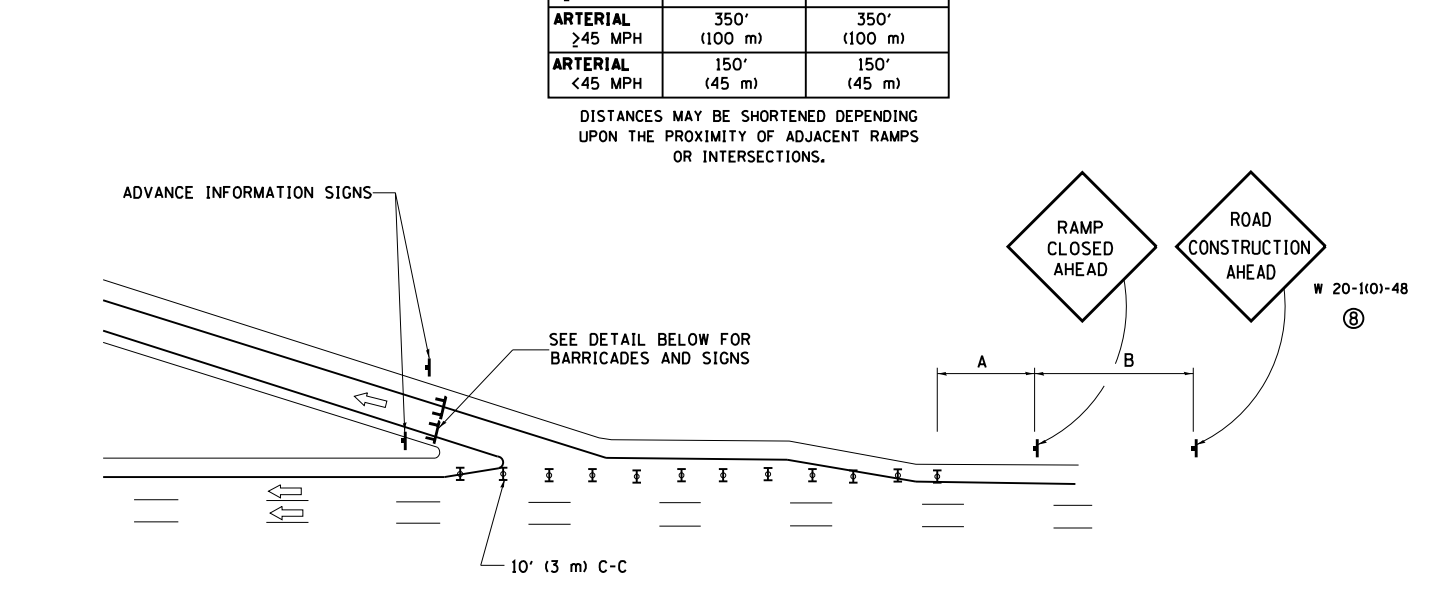
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

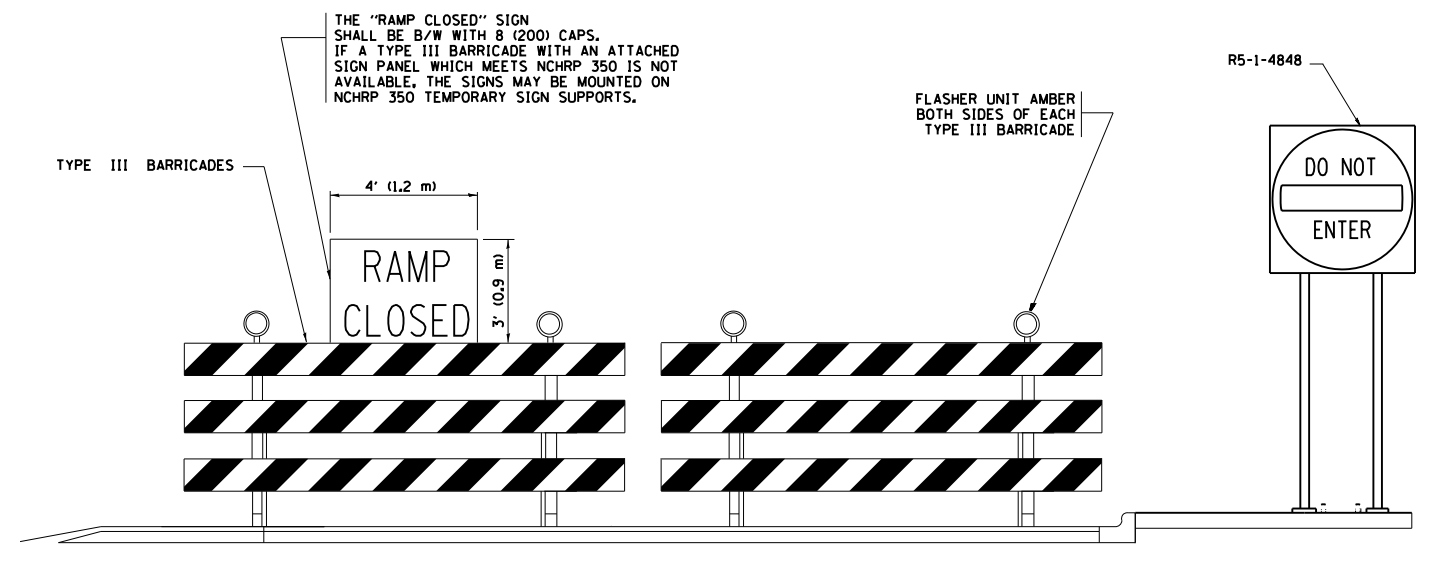
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-1(0)-48
⑧⑨

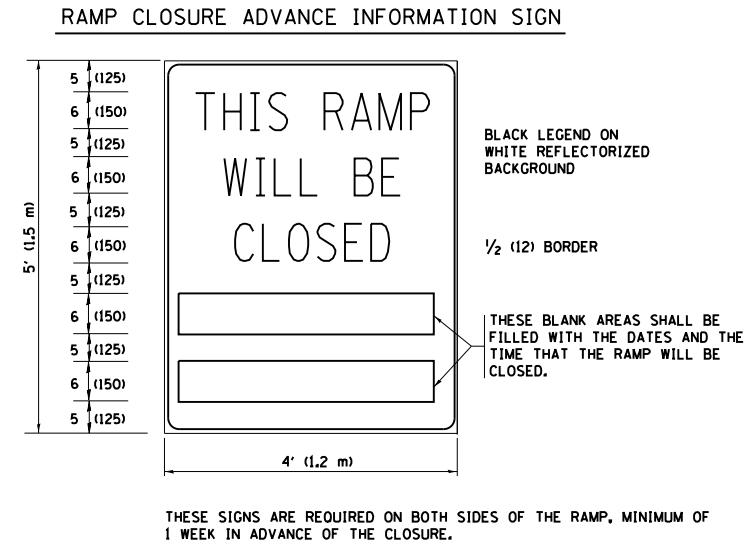
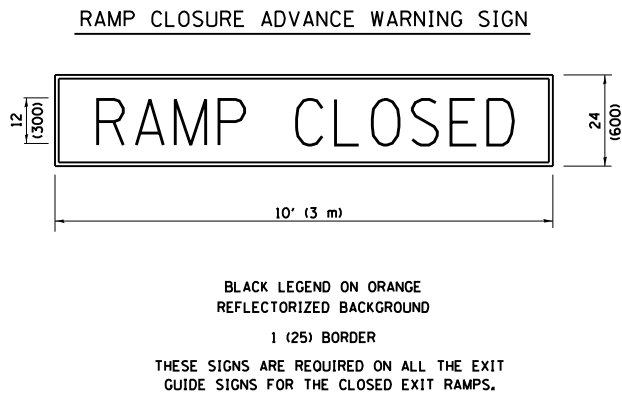


EXIT RAMP CLOSURE

- SYMBOLS**
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ⊓ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS



GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

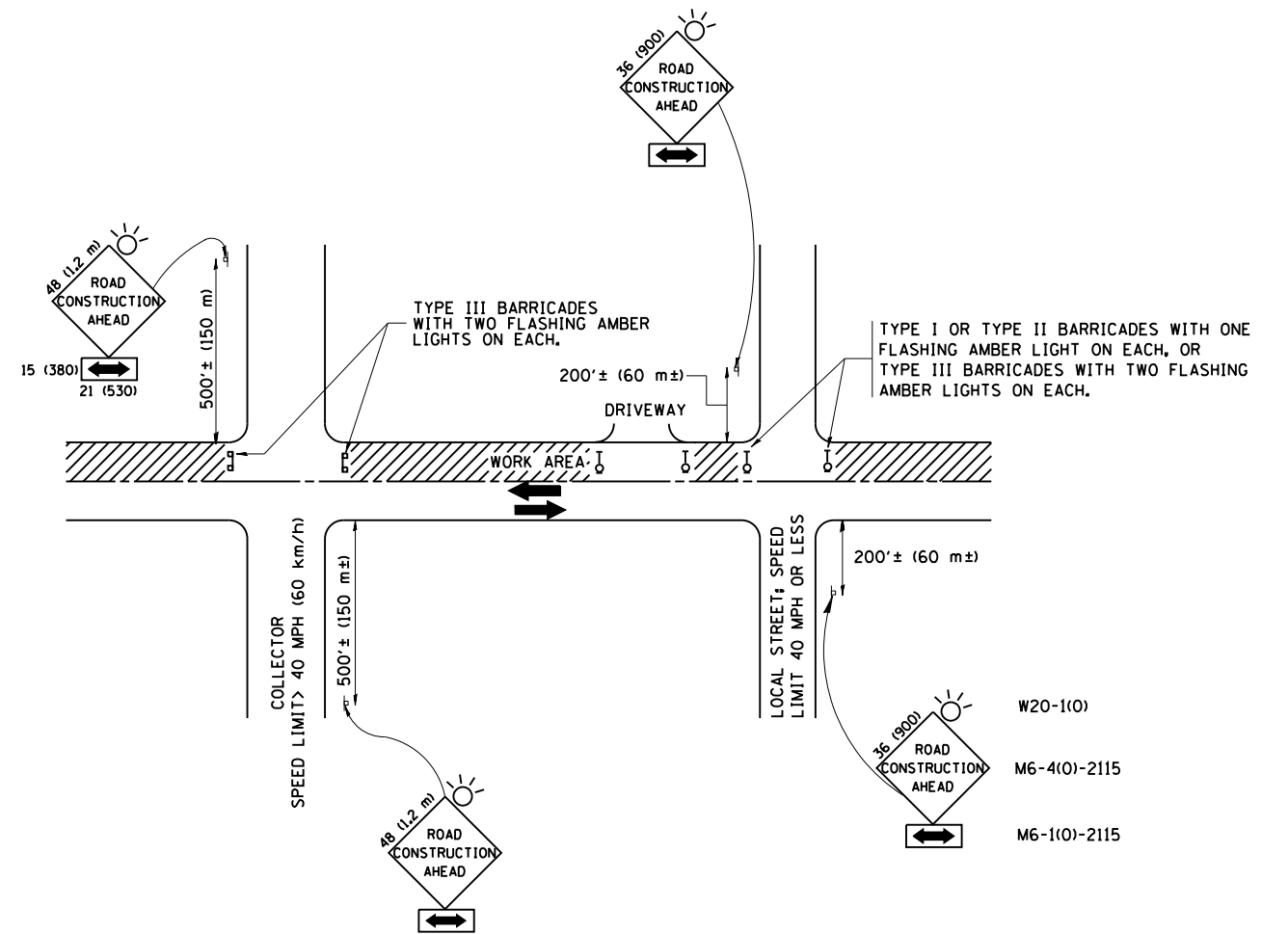
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT DATE = 12/14/2012	DATE - 02-83	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREeway ENTRANCE AND EXIT RAMP CLOSURE DETAILS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2011-067-1	DUPAGE	29	24
TC-08		CONTRACT NO. 60P86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



W20-1(0)
M6-4(0)-2115
M6-1(0)-2115

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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

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 AND FLAG 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. 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).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

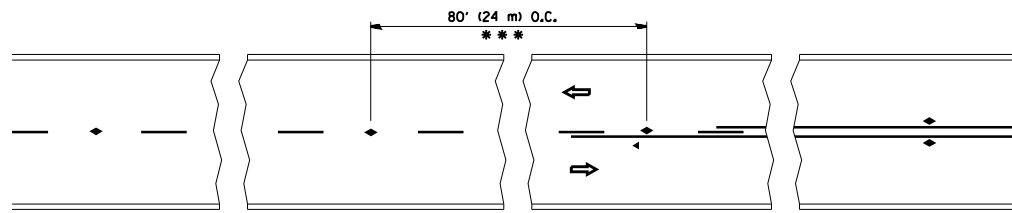
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

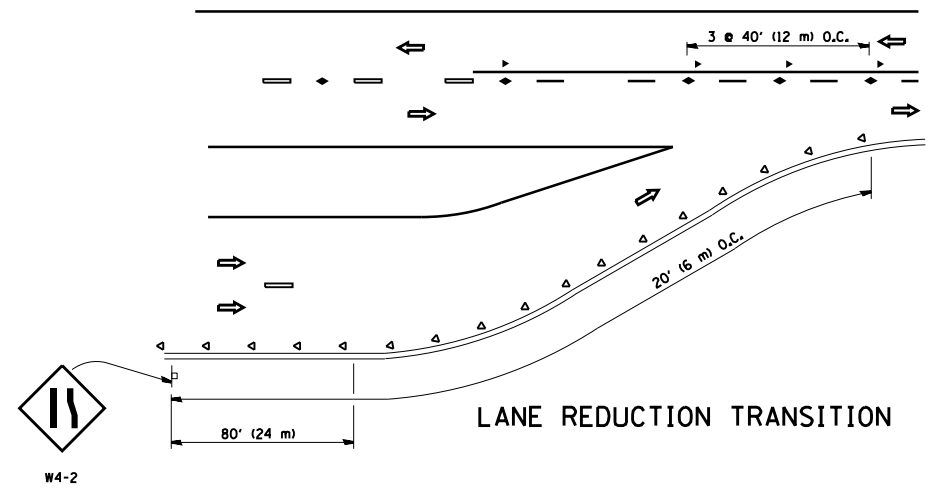
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60P86	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

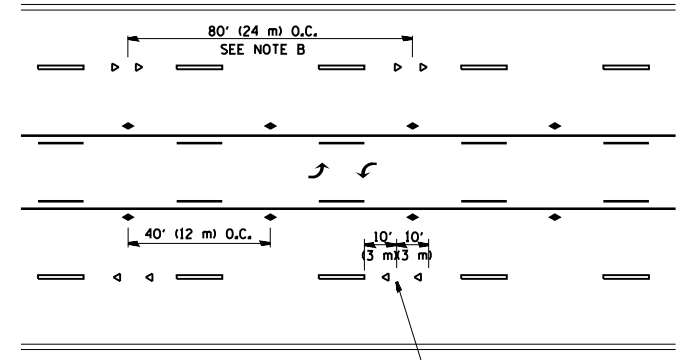


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

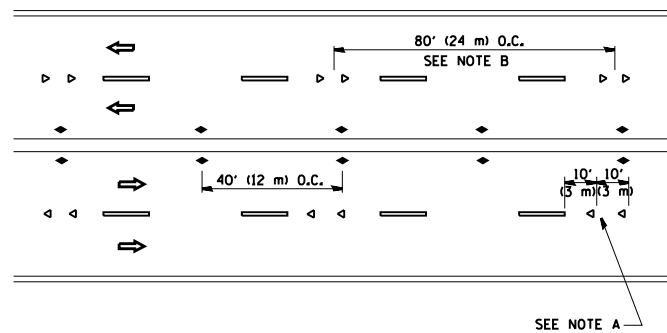
TWO-LANE/TWO-WAY



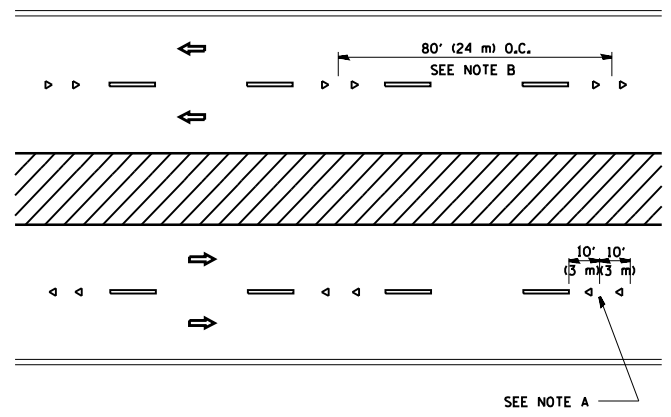
LANE REDUCTION TRANSITION



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.

LANE MARKER NOTES

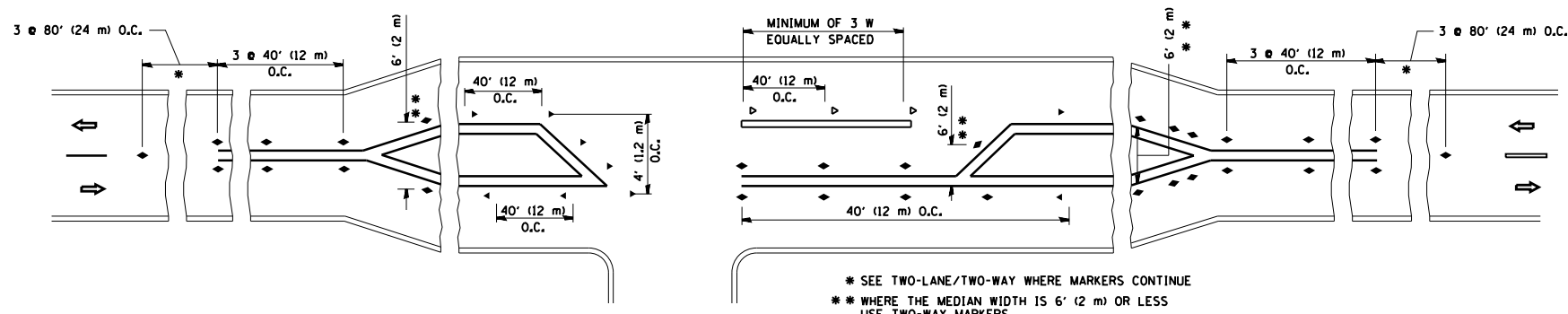
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

DESIGN NOTES

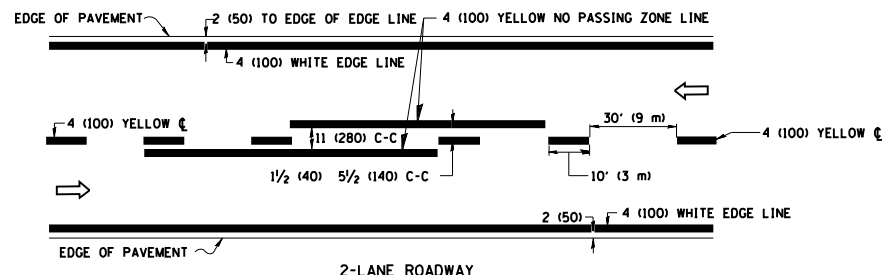
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS 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.



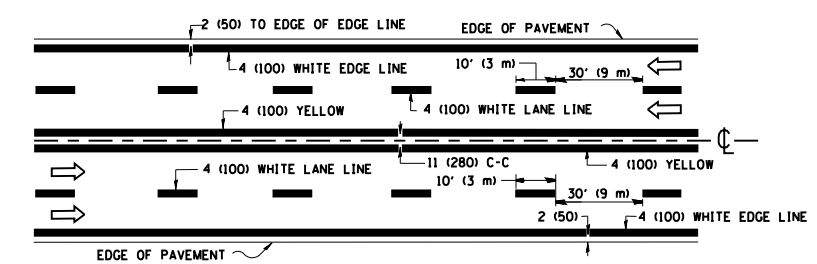
LEFT TURN

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

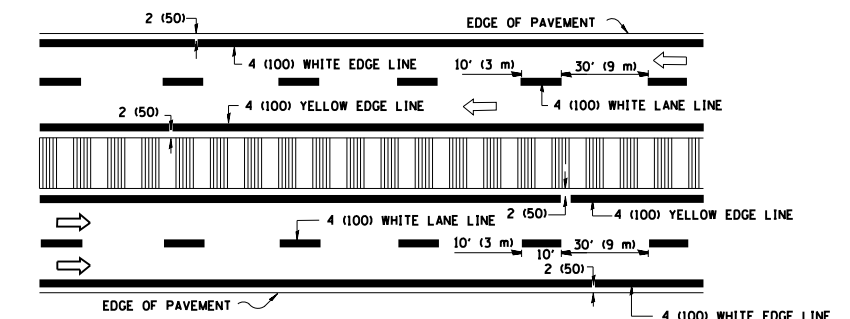
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PLOT DATE = 12/14/2012		DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



2-LANE ROADWAY



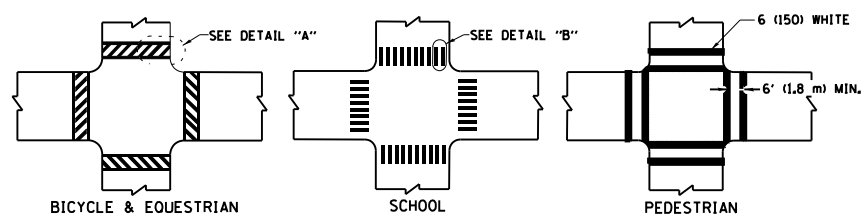
MULTI-LANE UNDIVIDED



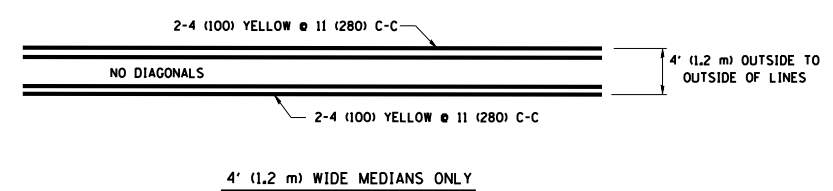
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

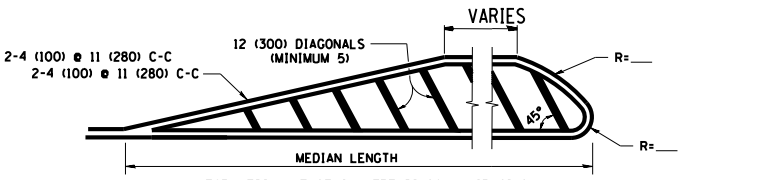
TYPICAL LANE AND EDGE LINE MARKING



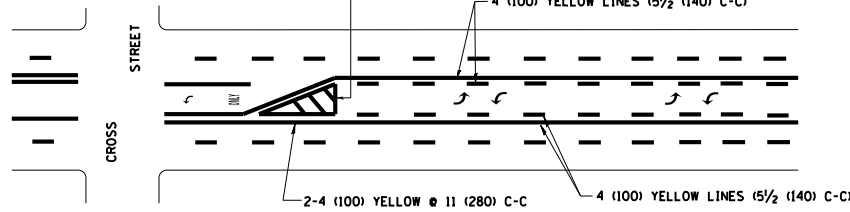
TYPICAL CROSSWALK MARKING



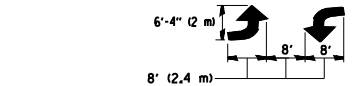
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



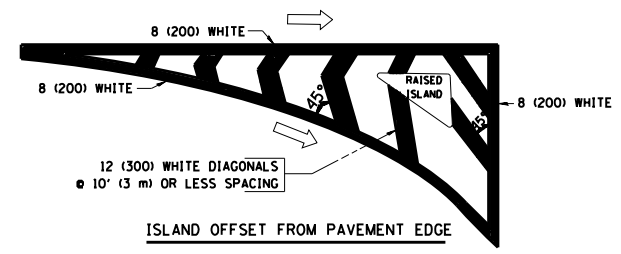
TYPICAL PAINTED MEDIAN MARKING



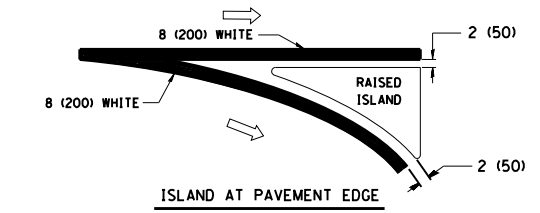
TYPICAL LEFT (OR RIGHT) TURN LANE

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



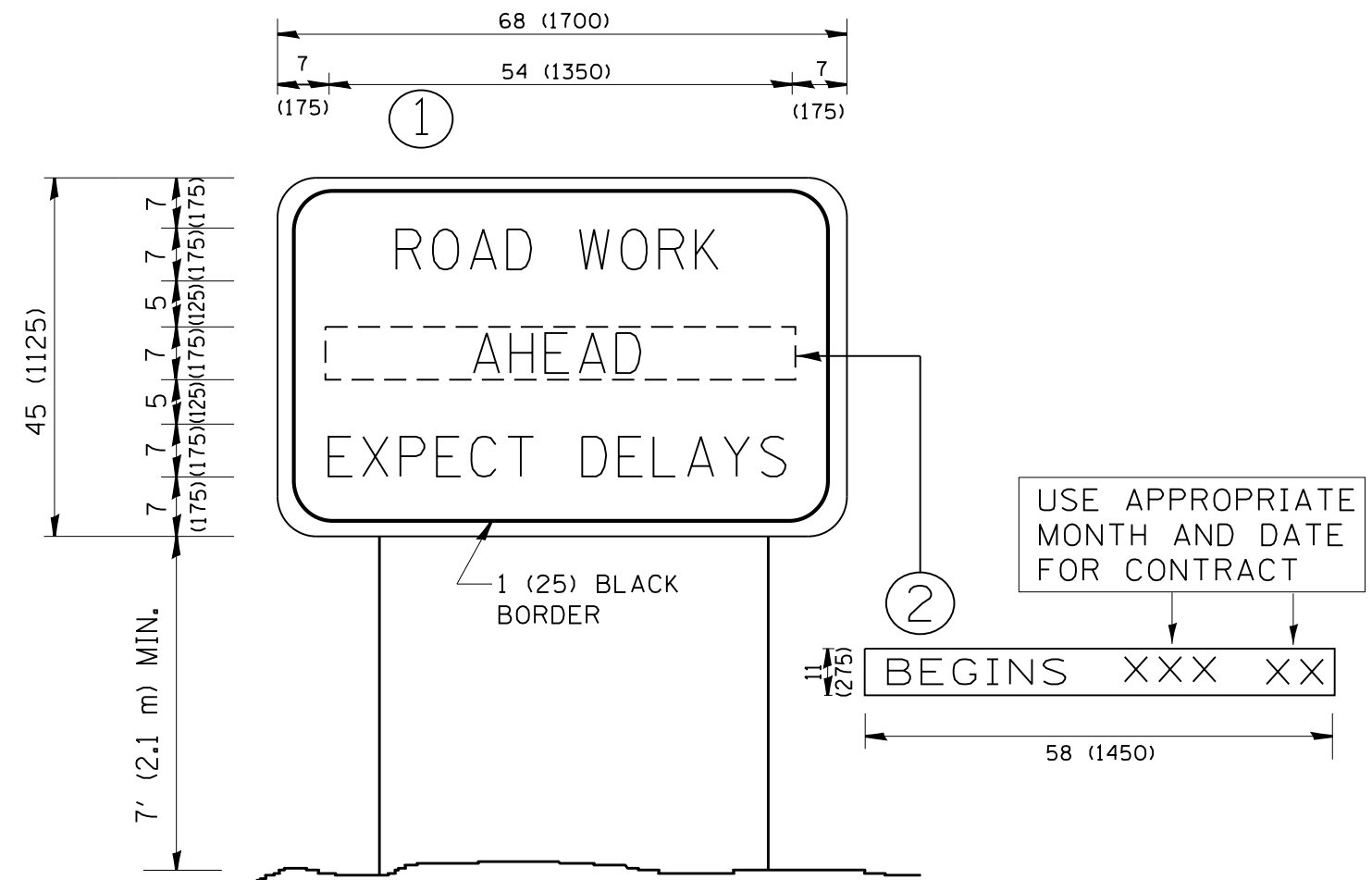
ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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" 15' (4.5 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) EACH
SHOULDER DIAGONALS	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))

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.



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.

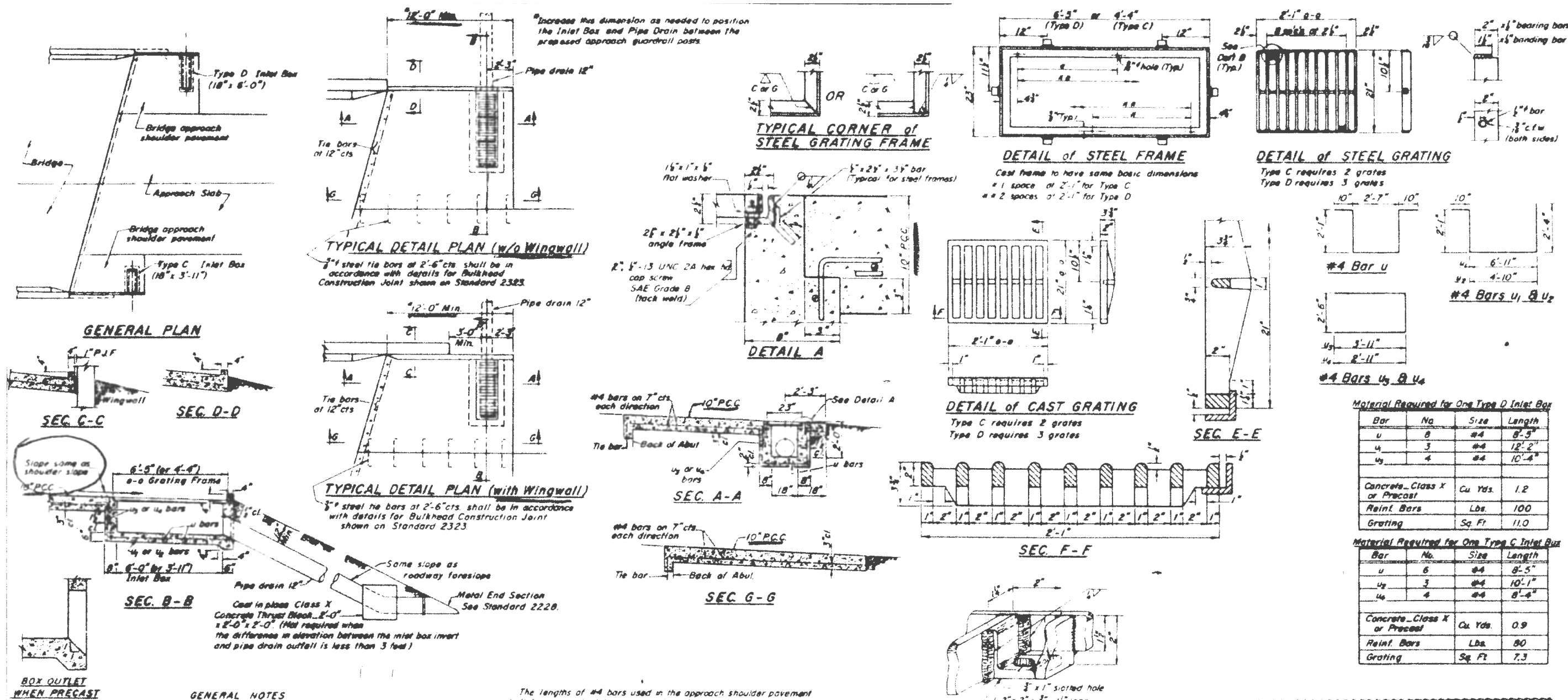
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	PLOT DATE = 12/14/2012	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2011-067-1	DUPAGE	29	28
TC-22		CONTRACT NO. 60P86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BOX OUTLET WHEN PRECAST

GENERAL NOTES

When Inlet Box or Boxes are not required, surface of the shoulder pavement shall be finished to provide a smooth transition from back of the abutment to normal approach roadway shoulder.

See plans for location of bridge approach shoulder pavement.

Use Type C Inlet Box for 4' thru 6' shoulder widths; use Type D Inlet Box for 7' and wider shoulder widths.

For placement of approach shoulder pavement on existing construction substitute expansion anchor ties for tie bars. For non-rigid approaches, shoulder pavement will be as shown except omit tie bars in approach pavement.

The material for Pipe Drains...12" shall be either corrugated steel or aluminum alloy pipe.

The P.C. Concrete used in the shoulder slab shall meet the requirements of Section 408 of the Standard Specifications.

The lengths of #4 bars used in the approach shoulder pavement shall be as required to accommodate the length, width and skew of the slab.

Class X concrete or precast concrete shall be used for the inlet. Precast concrete shall be in accordance with Sections 505.01 thru 505.05 of the Standard Specifications except that the concrete strength shall be 4000 p.s.i. after 28 days.

All exposed edges of the inlet, except the upper perimeter, shall be beveled $\frac{1}{4}$ ".

Shop drawings will not be required for precast Inlet Boxes.

A 3" deep sand bedding conforming to Article T03.01 (FA 1 or FA 2) shall be provided under full length and width of precast units, and all voids around the pipe drain entrance, both inside and outside, shall be sealed with mortar.

The grating shall seat firmly in the frame and steel grates shall be secured to the frame with a locking device as shown. Cast grates will not require the locking device.

Steel grating and frames shall conform to Article 710.04 of the Standard Specifications and shall be galvanized to AASHTO Specification M11 after fabrication.

Cast grating and frames shall conform to Article 710.17 of the Standard Specifications. Cast grating and frames shall not be galvanized.

DETAIL B

3" x 1" slotted hole
 4-1/2" x 2" x 1/8" long

Pipe drains shall be installed, measured and paid for in accordance with Section 607 of the Standard Specifications.

Metal End Sections shall be installed, measured and paid for in accordance with Section 511 of the Standard Specifications.

Bridge approach shoulder pavement will be measured in place and paid for in square yards as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT which shall include the cost of subgrade preparation, expansion anchor ties, reinforcement and joint fillers. In computing the area for payment, a deduction will be made for the area displaced by the inlet (1.2 Sq Yds. Type C; 1.7 Sq Yds. Type D).

The contract unit price "Each" for TYPE D INLET BOX STANDARD 2324 or TYPE C INLET BOX STANDARD 2324, in place, shall include the frames and grating, class X or precast concrete, reinforcement bars, excavation, bedding when required, and compacted backfilling.

The contract unit price "Each" for CONCRETE THRUST BLOCKS, in place, shall include excavation and compacted backfilling.

DESIGN NOTES

For shoulders less than 4' in width, special details using other Standard inlets and castings should be proposed.

All installations which will also require the placement of approach guardrail should be checked to see if special Approach Shoulder Pavement or Guardrail details will be required.

Design notes will not appear in the contract plans.

Material Required for One Type D Inlet Box

Bar	No.	Size	Length
u	8	#4	8'-5"
u ₁	3	#4	12'-2"
u ₂	4	#4	10'-4"
Concrete, Class X or Precast		Cu. Yds.	1.2
Reinf. Bars		Lbs.	100
Grating		Sq. Ft.	11.0

Material Required for One Type C Inlet Box

Bar	No.	Size	Length
u	6	#4	8'-5"
u ₁	3	#4	10'-1"
u ₂	4	#4	8'-4"
Concrete, Class X or Precast		Cu. Yds.	0.9
Reinf. Bars		Lbs.	80
Grating		Sq. Ft.	7.3

FOR INFORMATION ONLY