

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 353: US 30 (LINCOLN HIGHWAY)  
OVER I-57  
SECTION 0404-1004HB-BR  
BRIDGE REPAIR  
COOK COUNTY

C-91-041-14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	1
ILLINOIS			CONTRACT NO. 60X21	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED  
IN THE VILLAGE OF MATTESON

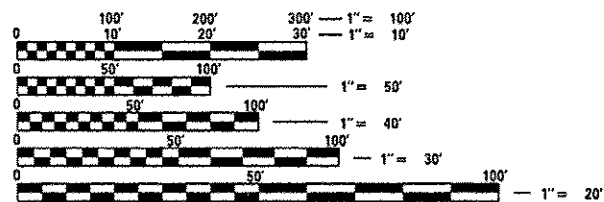
TRAFFIC DATA

US-30

2013 ADT = 33,700  
SPEED LIMIT = 45 MPH

I-57

2011 ADT = 44,300  
SPEED LIMIT = 70 MPH



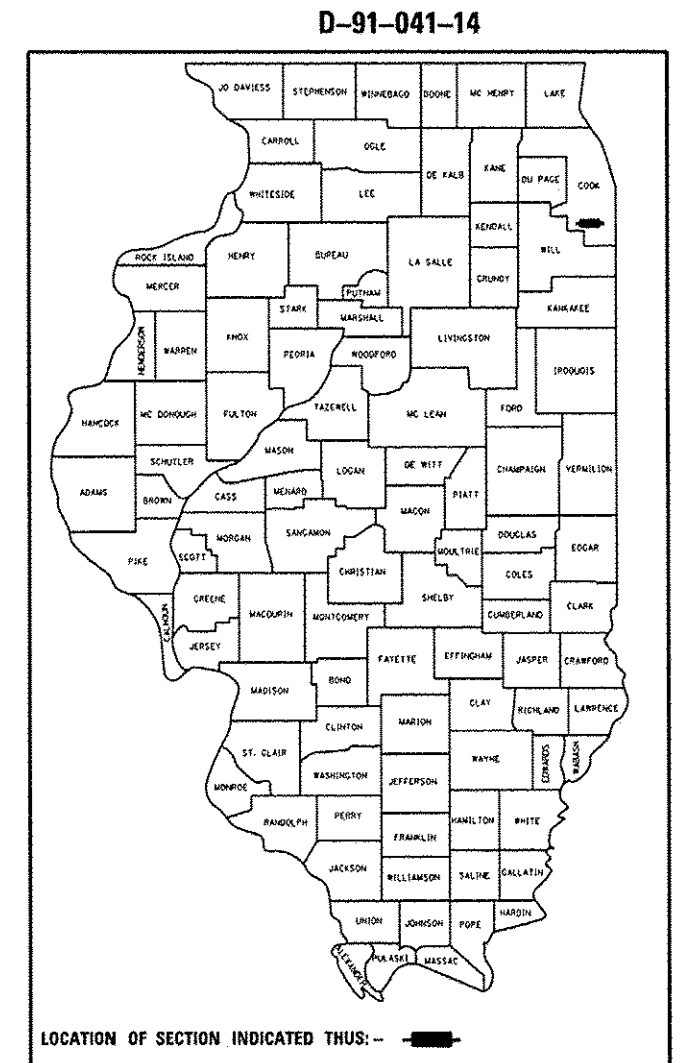
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

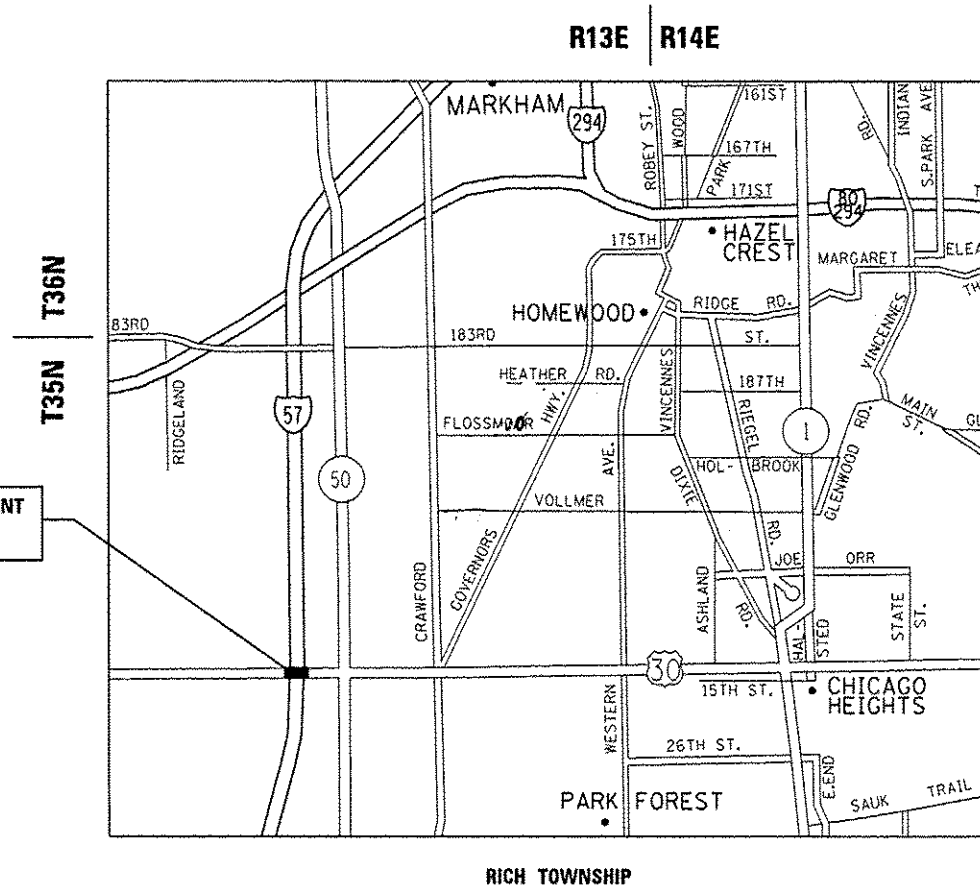
PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: ISSAM RYAN

CONTRACT NO. 60X21

GROSS & NET LENGTH = 262.1 FT. = 0.049 MILE



LOCATION OF IMPROVEMENT  
S.N. 016-0285



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED April 3 2014  
John Fortmann  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9 2014  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2014  
Omer Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

**INDEX STANDARDS**

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23-24	PAVEMENT MARKING PLANS
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**STATE STANDARDS**

701101 - 04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701411 - 08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701422 - 06	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45MPH TO 55 MPH
701423 - 07	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
701427 - 02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS < 40 MPH
701601 - 09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVESABLE MEDIAN
701701 - 09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901 - 03	TRAFFIC CONTROL DEVICES

**GENERAL NOTES**

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF MATTESON.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
5. 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.
6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
7. THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
8. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
9. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

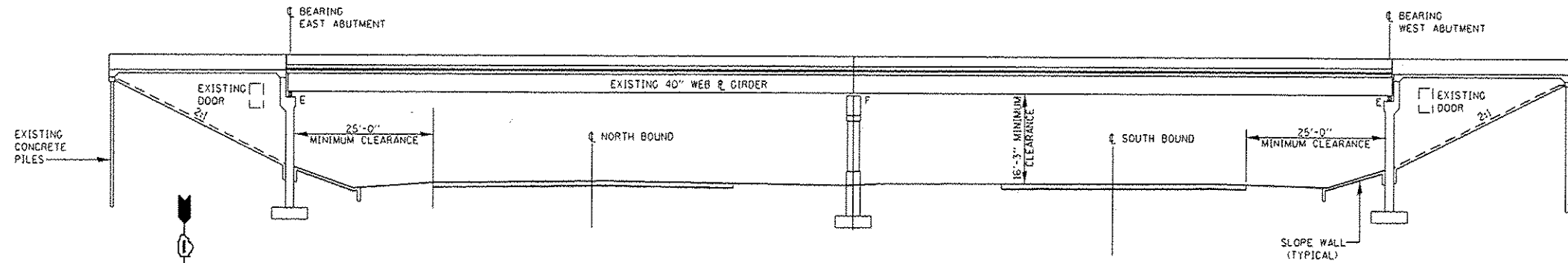
FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 30 OVER I-57 INDEX</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\p\dos\hardnetbr\0374764\0	04114-shs-plan.dgn	DRAWN :	REVISED :			353	0404-1004HB-BR	COOK	28	2	
	PLOT SCALE :	CHECKED :	REVISED :			CONTRACT NO. 60X21					
Default	PLOT DATE :	DATE :	REVISED :			ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	0014							CODE NO	ITEM	UNIT	0014						
45000130	RELIEF JOINT 4"	FOOT	218	218						* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1432	1432					
50102400	CONCRETE REMOVAL	CU YD	11.4	11.4						* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	294	294					
50104650	SLOPE WALL REMOVAL	SO YD	54	54						* 78100300	REPLACEMENT REFLECTOR	EACH	52	52					
50300225	CONCRETE STRUCTURES	CU YD	1.4	1.4						78300100	PAVEMENT MARKING REMOVAL	SO FT	2116	2116					
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10.2	10.2						X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
50300300	PROTECTIVE COAT	SO YD	3229	3229						X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1550	1550						X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	8527	8527					
50800515	BAR SPLICERS	EACH	24	24						X7030045	WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	FOOT	1453	1453					
51100100	SLOPE WALL 4 INCH	SO YD	54	54						Z0001905	STRUCTURAL STEEL REPAIR	POUND	130	130					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	218	218						Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	309	309					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1	1						Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SO FT	208	208					
67100100	MOBILIZATION	L SUM	1	1						Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	8	8					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	3811	3811						12									
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2126	2126															
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	881	881															
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	193	193															

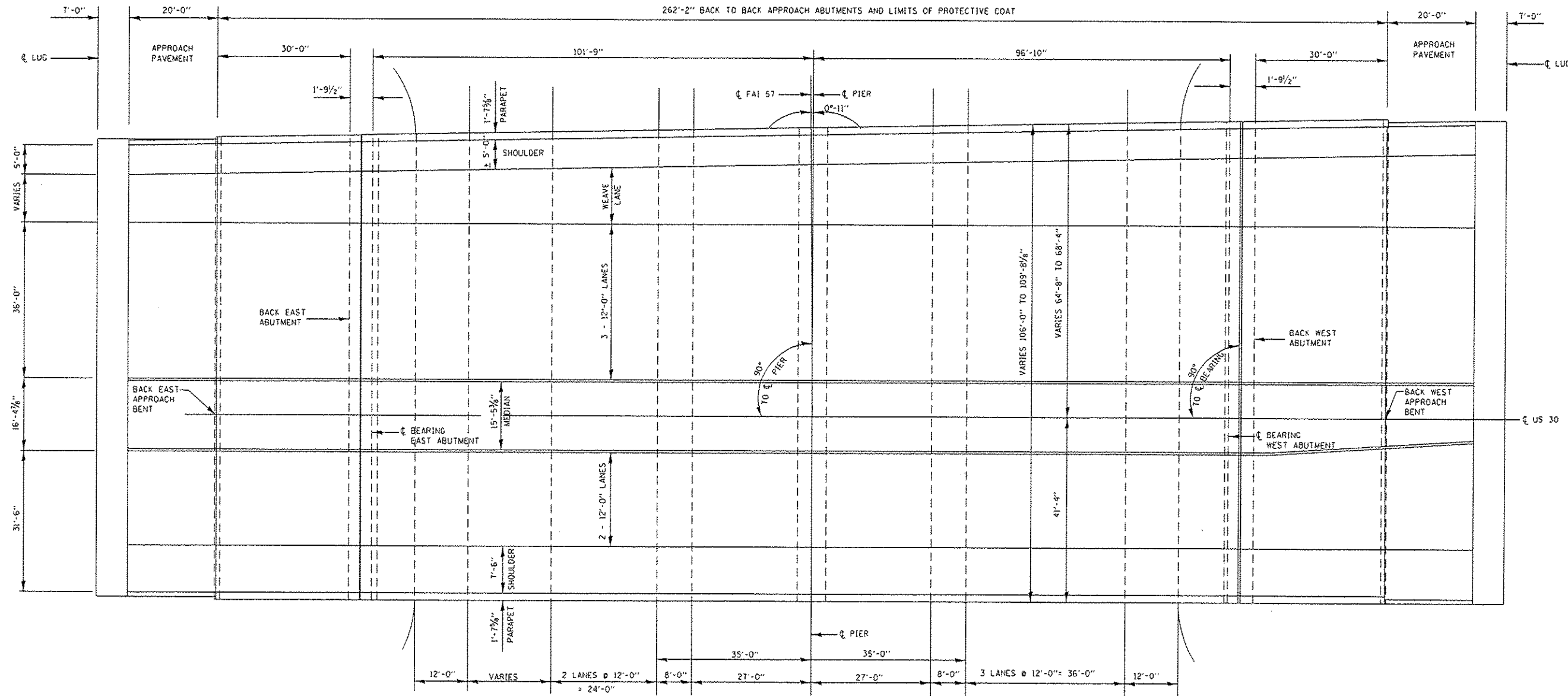
\* Specialty Items

Rev.

FILE NAME *	USER NAME = hrdmtr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ORIG. USER = hrdmtr	DESIGNED -	REVISED -	353					0404-1004HB-BR	COOK	28	3	
PLOT SCALE = 100,000' / 1" IN.	CHECKED -	REVISED -	CONTRACT NO. 60X21									
PLOT DATE = 4/16/2014	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
				SCALE:		SHEET NO. OF SHEETS		STA. TO STA.				



**ELEVATION**



**PLAN**

FILE NAME =	USER NAME = hardnetbr	DESIGNED - MVT	REVISED - 4/28/14
c:\pwworksp\p1dot\hardnetbr\d0101671\016-0285.dgn		DRAWN - MVT	REVISED -
Default	PLOT SCHLE = 100.000 / in.	CHECKED - RTB	REVISED -
	PLOT DATE = 5/2/2014	DATE -	REVISED -

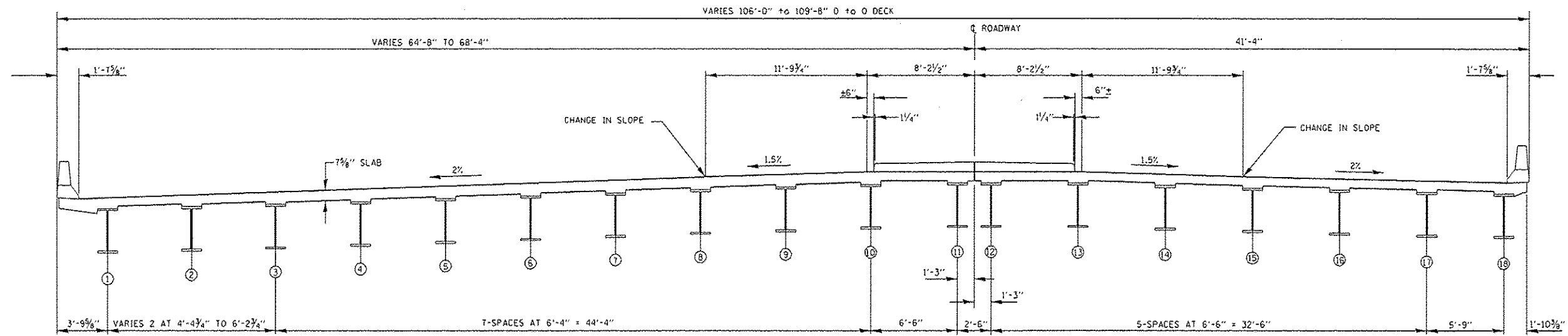
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**U.S. 30 (LINCOLN HIGHWAY) BRIDGE OVER I-57  
GENERAL PLAN AND ELEVATION  
S.N. 016-0285**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	CODR	28	4
CONTRACT NO. 60X21				

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



**CROSS SECTION  
LOOKING WEST**

**GENERAL NOTES:**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

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

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

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

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.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 Gr. 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

THE DECK SURFACE SHALL HAVE ITS FINAL FINISH TINED ACCORDING TO ARTICLE 420.09(a)(1) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE SUPERSTRUCTURES.

PROTECTIVE COAT SHALL BE APPLIED TO THE FRONT AND TOP FACE OF PARAPET, MEDIAN AND DECK SURFACE.

FASTENERS SHALL BE HIGH STRENGTH BOLTS, BOLTS 3/4"Ø. OPEN HOLES 1/8"Ø UNLESS OTHERWISE NOTED.

EXISTING STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE CBSP "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 I. COST INCLUDED WITH STRUCTURAL STEEL REPAIR.

DO NOT SCALE DIMENSIONS.

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
REINFORCEMENT BARS (EPOXY COATED)	POUND	1550
CONCRETE REMOVAL	CU. YD.	11.4
CONCRETE SUPERSTRUCTURE	CU. YD.	10.2
PREFORMED JOINT STRIP SEAL	FOOT	218
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT.	208
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT.	309
PROTECTIVE COAT	SQ. YD.	3229
BAR SPLICERS	EACH	24
RELIEF JOINTS, 4"	FOOT	218
STRUCTURAL STEEL REPAIR	POUND	130
SLOPEWALL 4"	SD. YD.	54
SLOPEWALL REMOVAL	SD. YD.	54
CONCRETE STRUCTURES	CU. YD.	1.4
TEMPORARY SHORING AND CRIBBING	EACH	8

FILE NAME : c:\p\work\p\dot\hardnettr\01010711\01-0285.dgn	USER NAME : hardnettr	DESIGNED - MVT	REVISED - 4/28/14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>U.S. 30 (LINCOLN HIGHWAY) BRIDGE OVER I-57 CROSS SECTION AND DETAILS S.N. 016-0285</b>			F.A.P. RTE. 353	SECTION D404-1004HB-BR	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 5
Default	PLOT SCALE = 100,000 / in.	CHECKED - RTB	REVISED -		SCALE:	SHEET 2 OF 12 SHEETS	STA.	TO STA.	[ILLINOIS] FED. AID PROJECT			
	PLOT DATE = 5/2/2014	DATE -	REVISED -									
CONTRACT NO. 60X21												



**DECK AT EAST ABUTMENT**

**BILL OF MATERIALS**


BAR	NO.	SIZE	LENGTH	SHAPE
o1(E)	6	#5	29'-5"	—
o2(E)	6	#5	22'-5"	—
o3(E)	6	#5	18'-2"	—
o4(E)	6	#5	34'-5"	—
c(E)	4	#4	7'-3"	—
d1(E)	16	#4	3'-0"	L
d1(E)	8	#5	2'-8"	L
d2(E)	2	#5	4'-6"	C
d3(E)	2	#5	2'-6"	C
d4(E)	4	#5	4'-11"	C
REINFORCEMENT BARS (EPOXY COATED)		POUND	760	
CONCRETE REMOVAL		CU.YD.	4.9	
CONCRETE SUPERSTRUCTURE		CU.YD.	5.0	
BAR SPLICERS		EACH	12	
PREFORMED JOINT STRIP SEAL		FOOT	107	

**DECK AT WEST ABUTMENT**

**BILL OF MATERIALS**

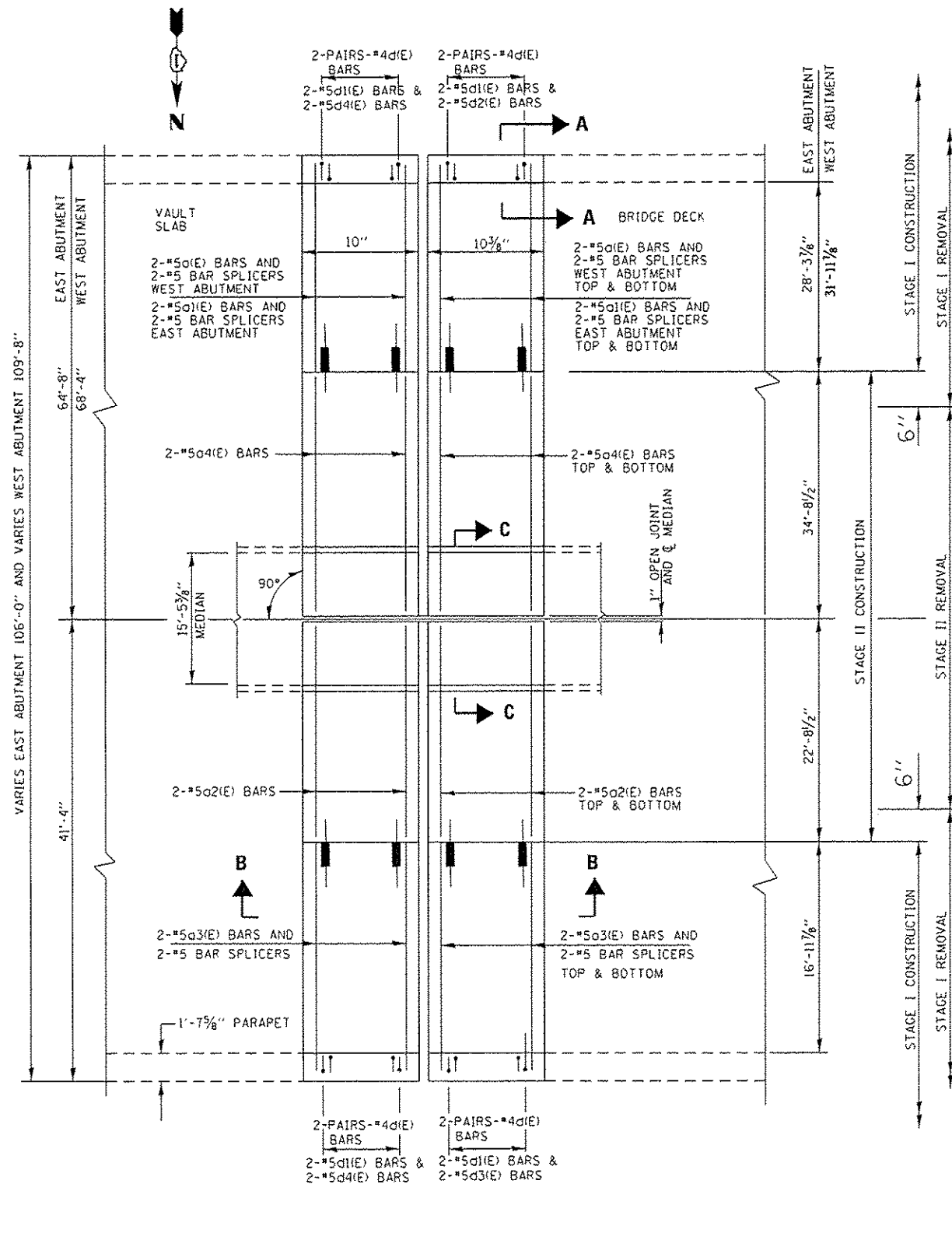
BAR	NO.	SIZE	LENGTH	SHAPE
o1(E)	6	#5	33'-2"	—
o2(E)	6	#5	22'-5"	—
o3(E)	6	#5	18'-2"	—
o4(E)	6	#5	34'-5"	—
c(E)	4	#4	7'-3"	—
d1(E)	16	#4	3'-0"	L
d1(E)	8	#5	2'-8"	L
d2(E)	2	#5	4'-6"	C
d3(E)	2	#5	2'-6"	C
d4(E)	4	#5	4'-11"	C
REINFORCEMENT BARS (EPOXY COATED)		POUND	790	
CONCRETE REMOVAL		CU.YD.	5.1	
CONCRETE SUPERSTRUCTURE		CU.YD.	5.2	
BAR SPLICERS		EACH	12	
PREFORMED JOINT STRIP SEAL		FOOT	111	

**LEGEND:**

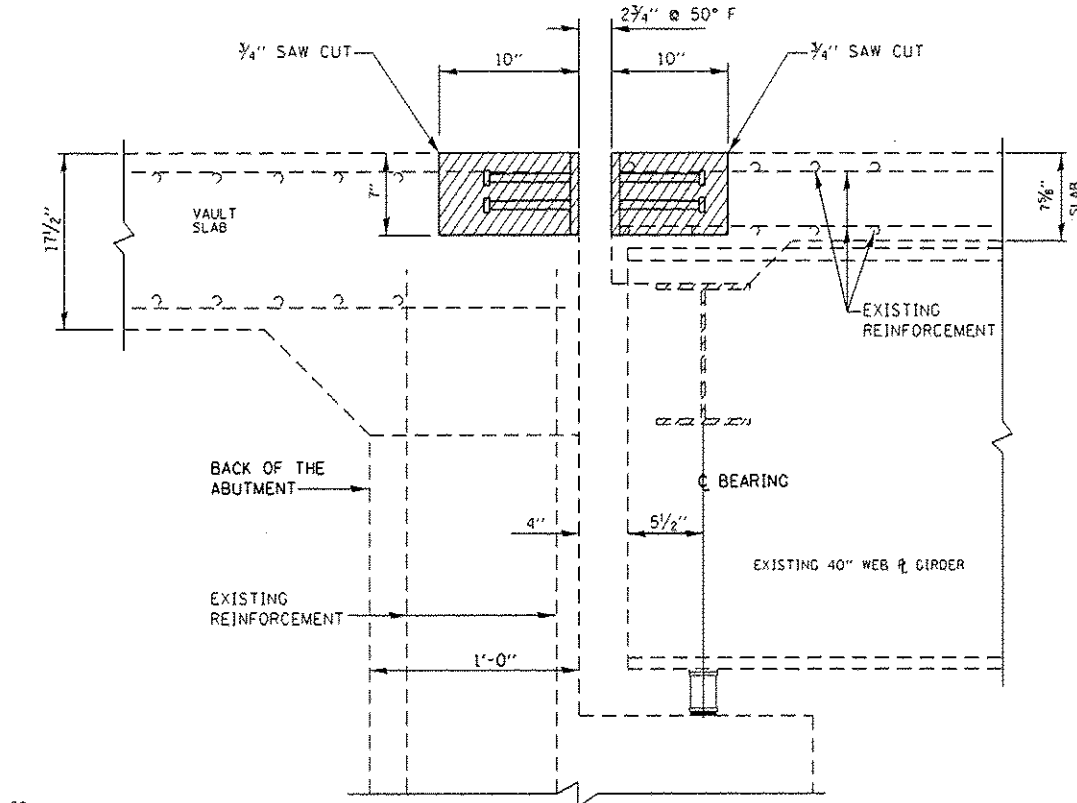
 HATCHED AREA INDICATES CONCRETE REMOVAL

**NOTE:**

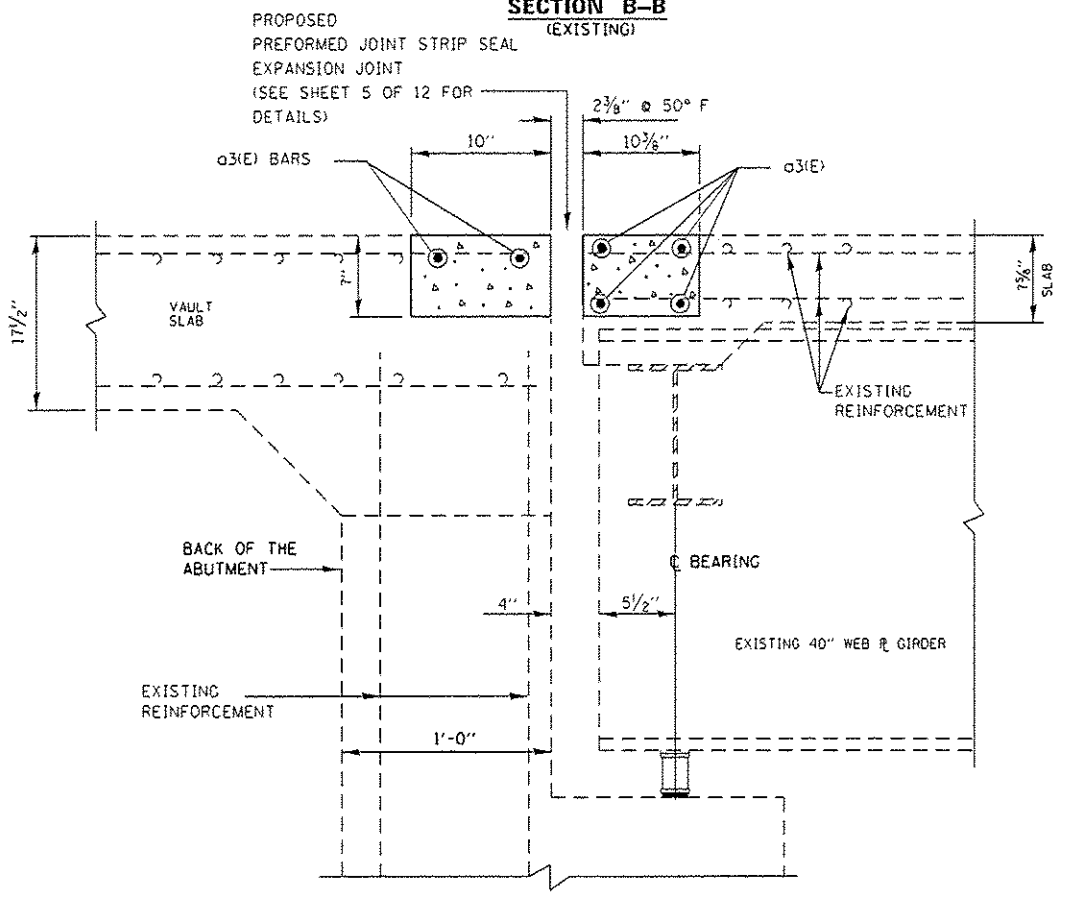
FOR SECTION A-A AND C-C SEE SHEET 3 OF 12



**PLAN**  
**EAST ABUTMENT SHOWN**  
**(WEST ABUTMENT SIMILAR BY 180°)**



**SECTION B-B**  
**(EXISTING)**



**SECTION B-B**  
**(PROPOSED)**

FILE NAME =	USER NAME = hardnstrb	DESIGNED - MVT	REVISED - 4/28/14
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		DATE -	REVISED -

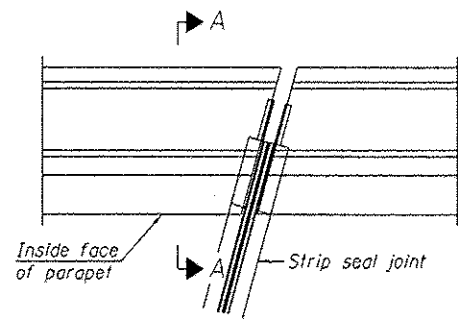
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**U.S. 30 (LINCOLN HIGHWAY) BRIDGE OVER I-57**  
**TRANSVERSE EXPANSION JOINT DETAILS**  
**S.N. 016-0285**

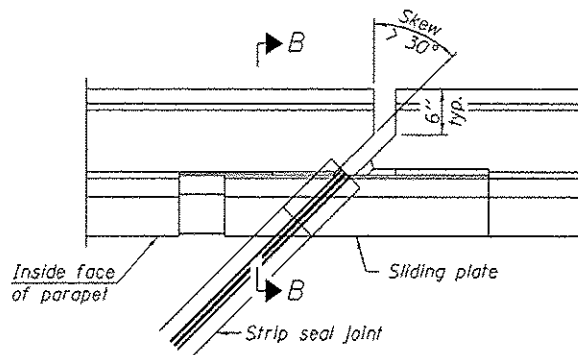
F.A.P. RTE. 353	SECTION 0404-1004HB-BR	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 21
CONTRACT NO. 60X21			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

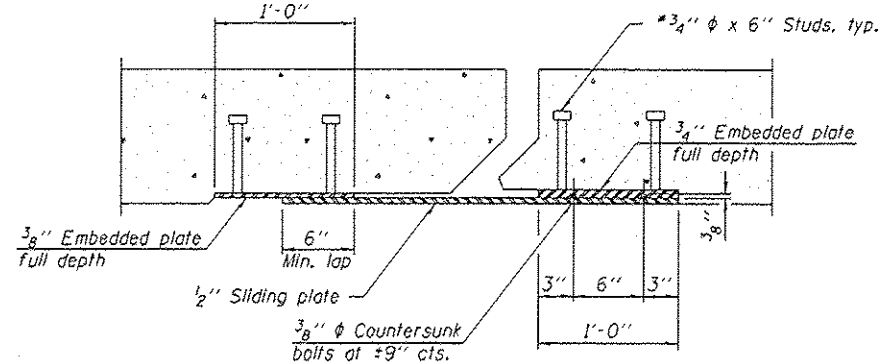




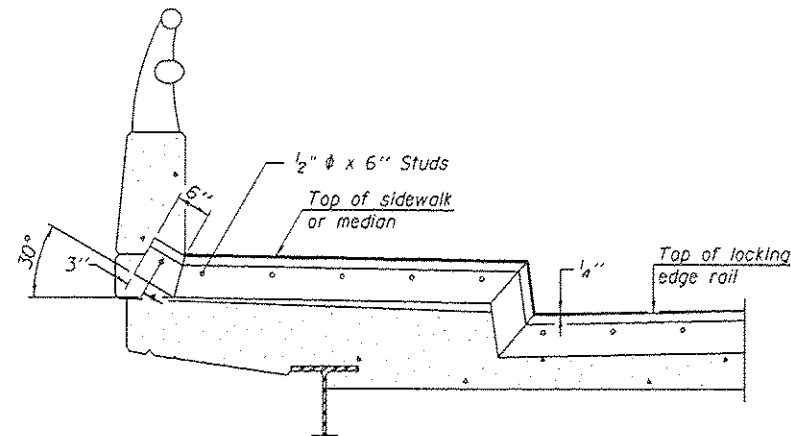
PLAN  
(For skews  $\leq 30^\circ$ )



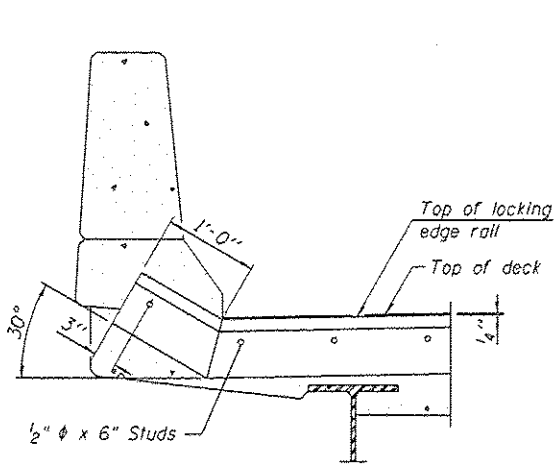
PLAN  
(For skews  $> 30^\circ$ )  
Showing point block



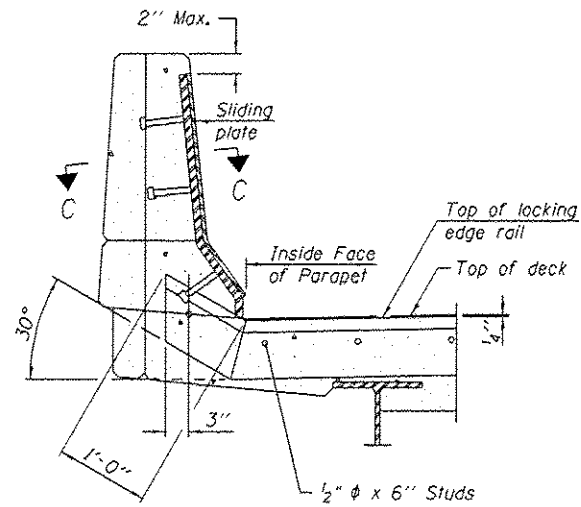
SECTION C-C



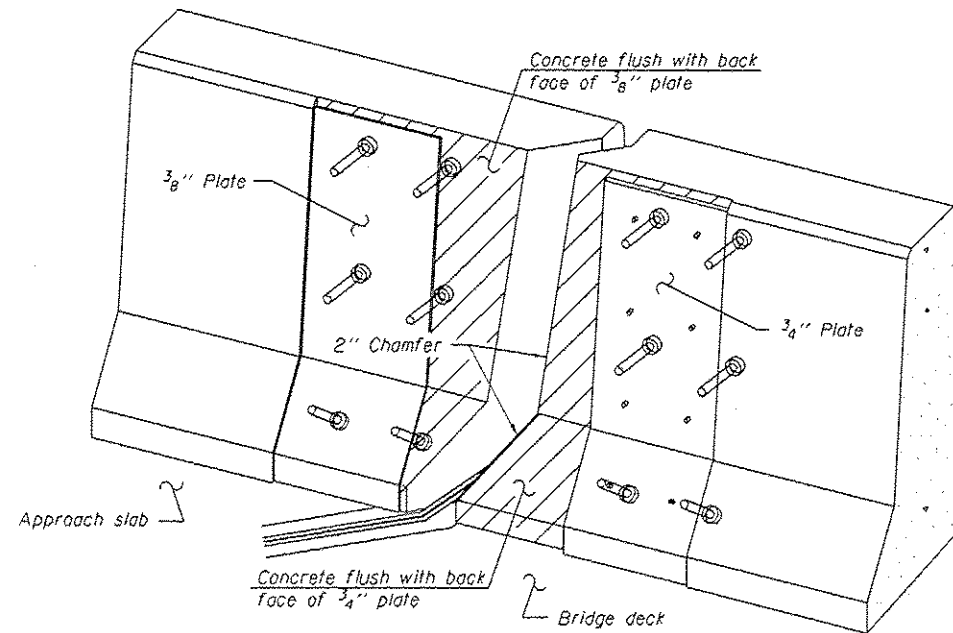
TYPICAL END TREATMENT  
AT SIDEWALK OR MEDIAN  
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



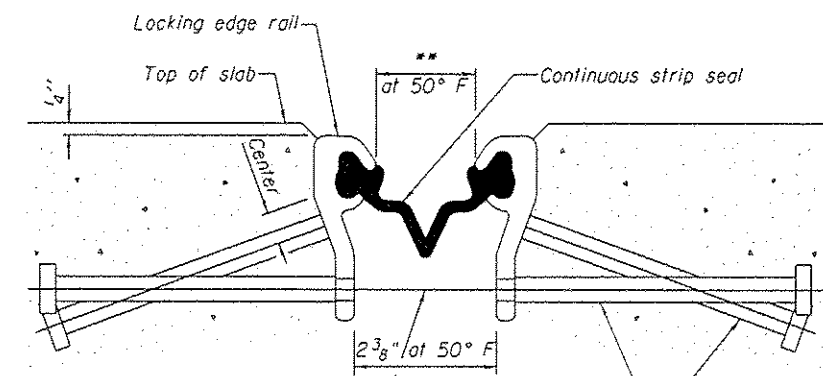
SECTION B-B



TRIMETRIC VIEW  
(Showing back plates only)

NOTES:

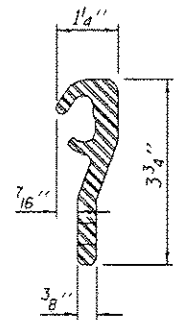
- The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "Welded" strip seal gland configurations are not permitted. The gland shall be sized for maximum rated movement of 4 inches.
- 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. joints in Rails within 10 Ft. of curbs shall be welded.
- Parapet plates and anchorage studs for skew  $> 30^\circ$  including in the cost of Preformed Strip Seal.



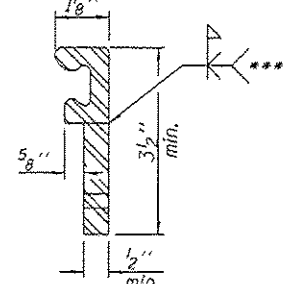
SECTION THRU STRIP SEAL JOINT  
FOR OVERLAY OVER DECK BEAMS

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

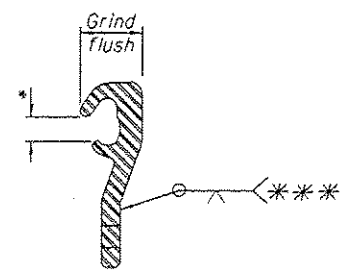
Place 1/2"  $\phi$  x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.



ROLLED (EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

- \* 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.

LOCKING EDGE RAIL

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	218

FILE NAME :	USER NAME : hardnettr	DESIGNED - MVT	REVISED - 4/28/14
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		CHECKED - RTB	REVISED -
		DATE -	REVISED -

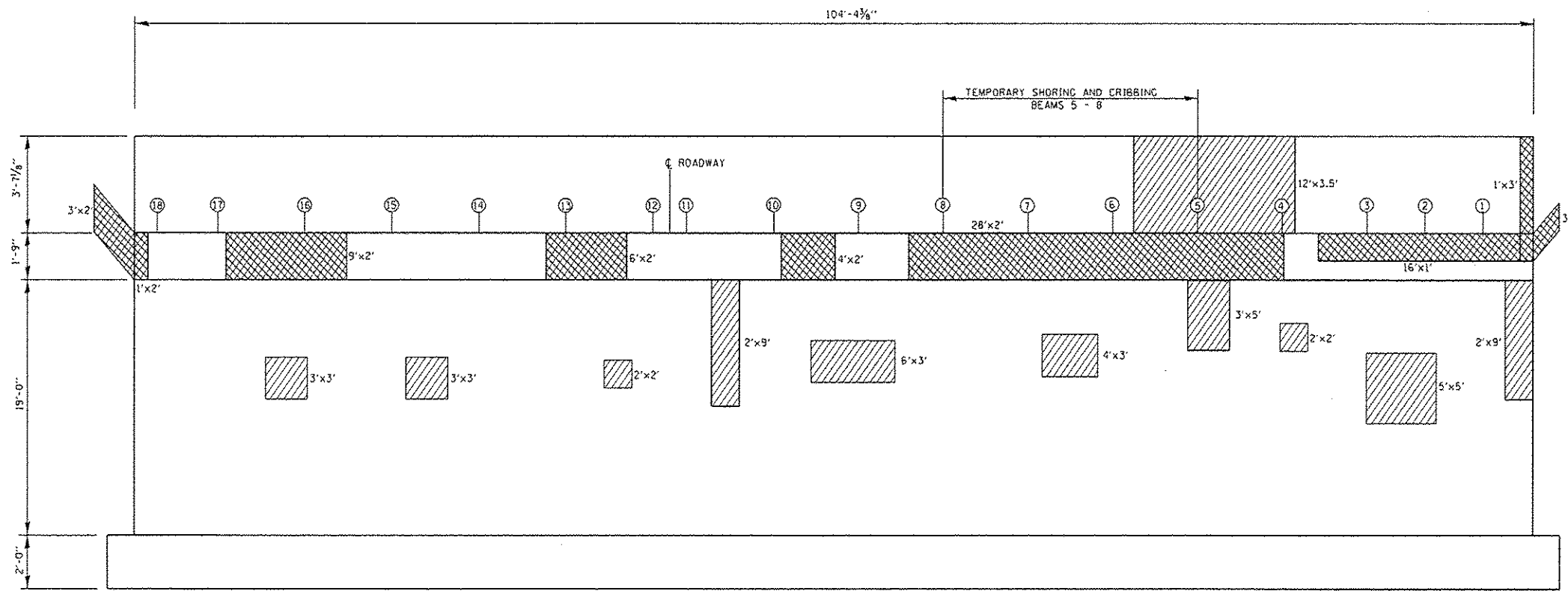
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

U.S. 30 (LINCOLN HIGHWAY) BRIDGE OVER I-57  
PREFORMED JOINT STRIP SEAL  
S.N. 016-0285

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-8A	COOK	28	8
CONTRACT NO. 60X21			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. 5 OF 12 SHEETS STA. TO STA.

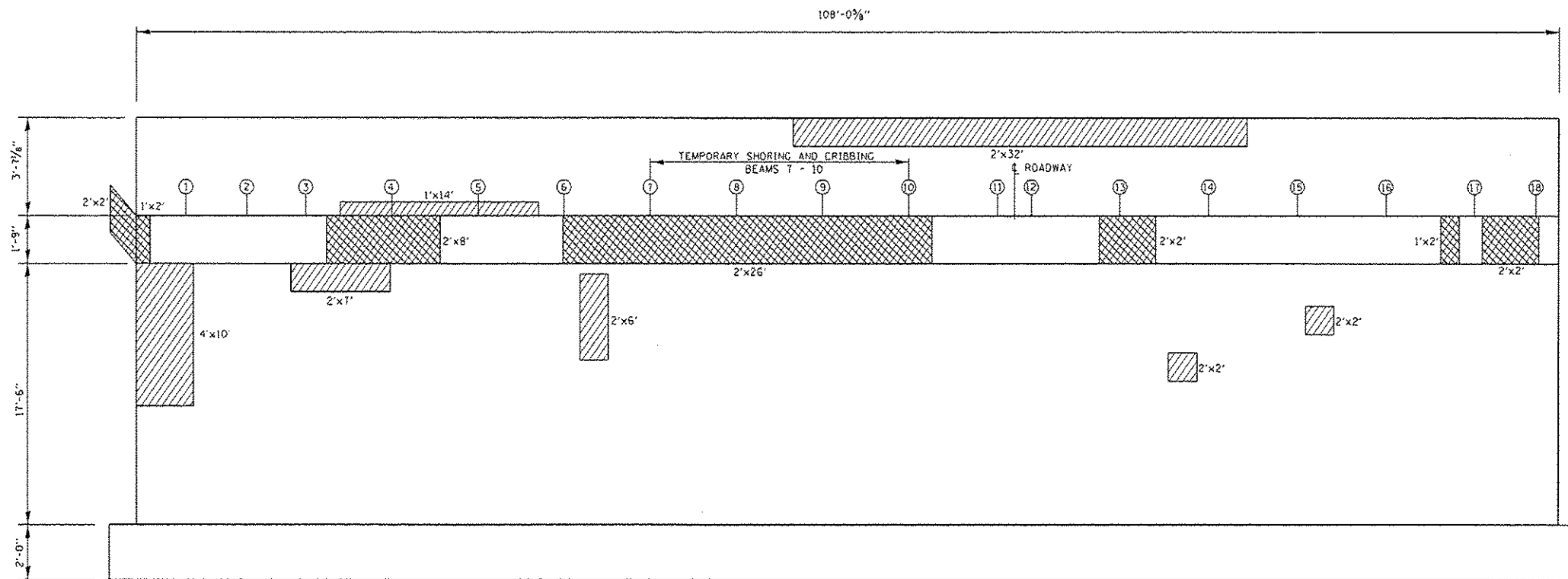




**EAST ABUTMENT ELEVATION**  
LOOKING EAST

**REACTIONS**

KIPS	EAST ABUTMENT	WEST ABUTMENT
R <sub>DL</sub>	46.3	41.8
R <sub>LL</sub>	42.3	42.0
R <sub>IMP</sub>	9.4	9.4
R <sub>TOTAL</sub>	98	93.2



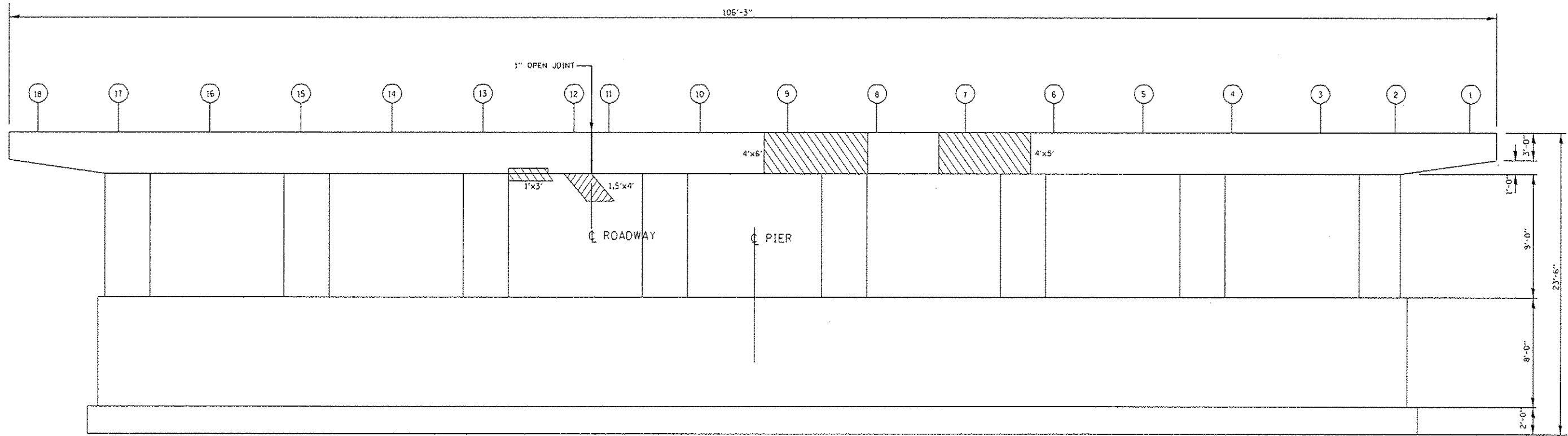
**WEST ABUTMENT ELEVATION**  
LOOKING WEST

**LEGEND:**

	STRUCTURAL REPAIR OF CONCRETE ≤ 5"
	STRUCTURAL REPAIR OF CONCRETE > 5"

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SO. FT.	256
STRUCTURAL REPAIR OF CONCRETE > 5"	SO. FT.	208
TEMPORARY SHORING AND CRIBBING	EACH	8




**ELEVATION**  
LOOKING EAST

**REACTIONS**

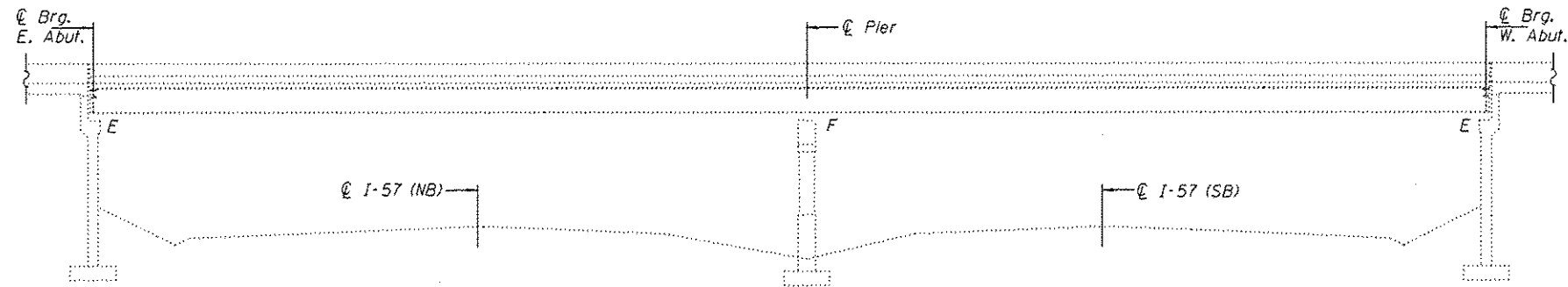
$R_{DL}$	149.9 K
$R_{LL}$	60.9 K
$R_{IMP}$	13.7 K
$R_{TOTAL}$	224.5 K

**LEGEND:**

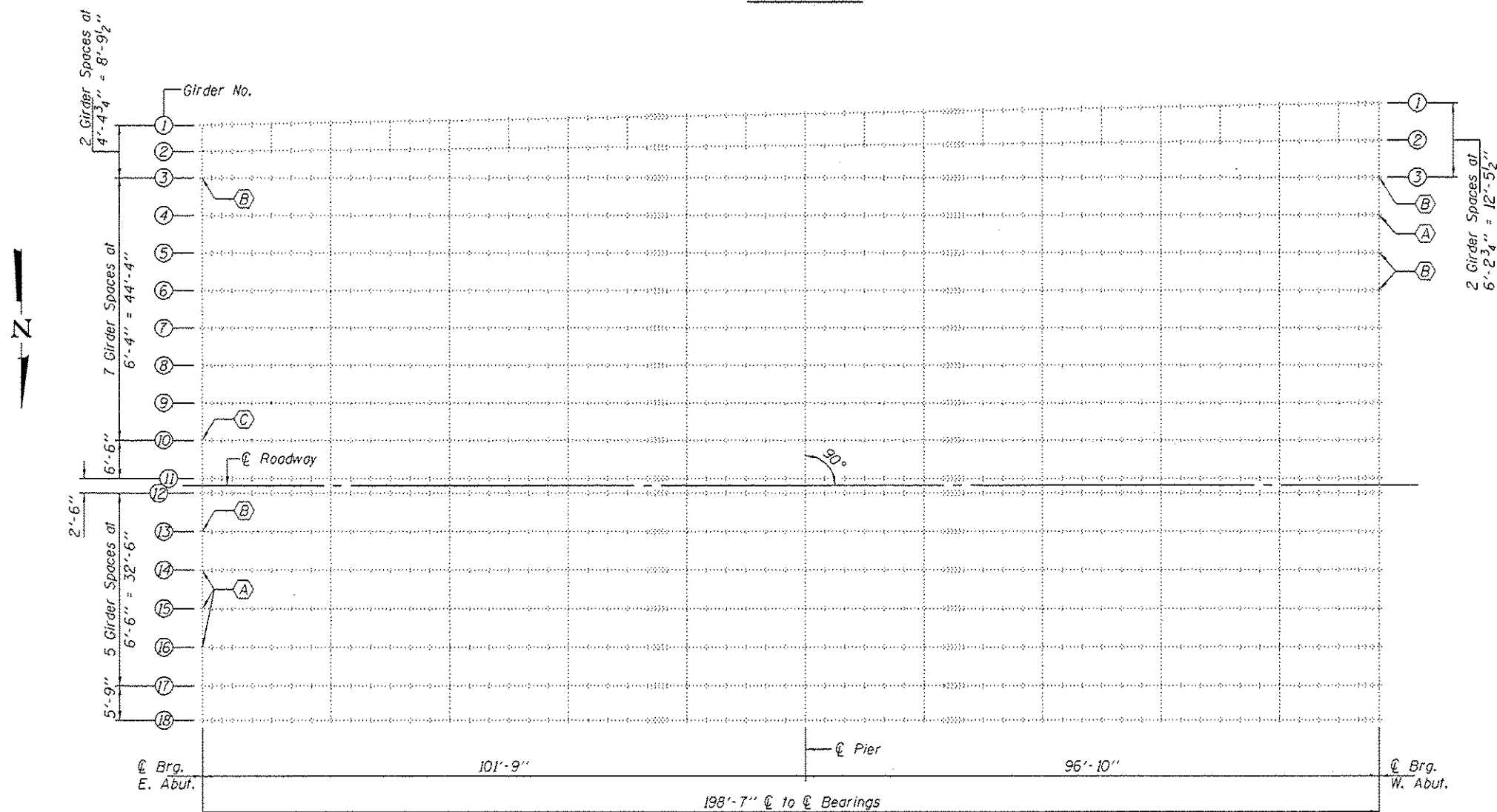
 STRUCTURAL REPAIR OF CONCRETE  $\leq 5''$

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE $\leq 5''$	SQ. FT.	53



**ELEVATION**



**PLAN**

- (A) - Girder End Repairs
- (B) - Girder End Repairs
- (C) - Girder End Repairs



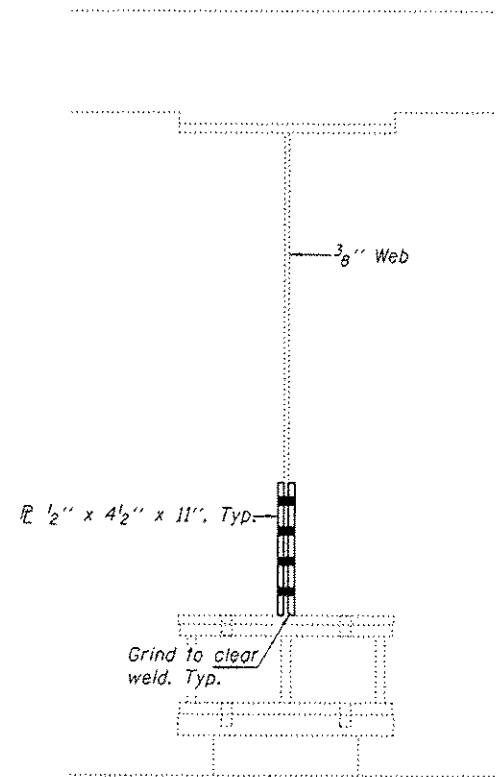
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	130

Expires 11-30-2014

DESIGNED - <i>Stephan Ryan</i>	EXAMINED - <i>David Carl Puzey</i>	DATE - APRIL 22, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GENERAL PLAN & ELEVATION U.S. ROUTE 30 (LINCOLN HIGHWAY) OVER I-57 SN 016-0285		F.A.I. RTE. 57	SECTION 0404-1004HB-BR	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 11
CHECKED - <i>Alkan Halkawaz</i>	PASSED - <i>David Carl Puzey</i>	REVISED			SHEET NO. 8 OF 12 SHEETS		ILLINOIS FEG. AID PROJECT		CONTRACT NO. 60X21		
DRAWN - <i>baliva</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED									
CHECKED - <i>SMR ATH</i>											

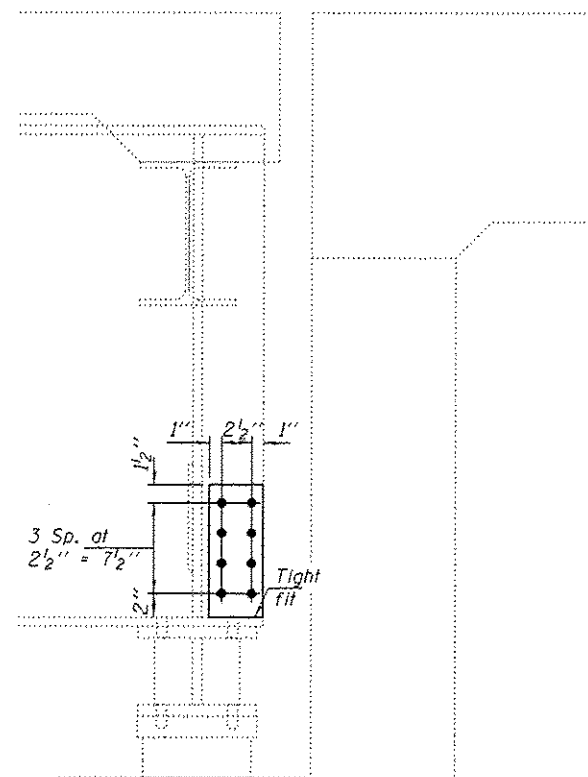
➔ A



↳ A

**REPAIR A**

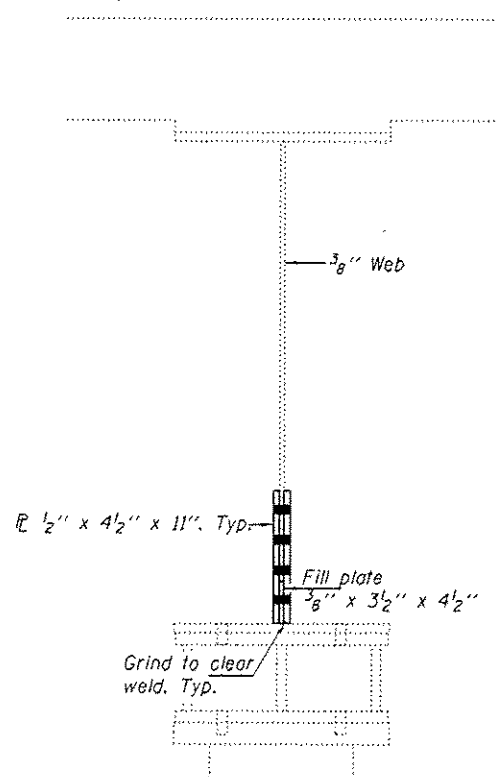
Typ. of:  
 BM 3 E. Abut., BM 14 E. Abut., BM 15 E. Abut.,  
 BM 16 E. Abut., BM 4 W. Abut. & BM 5 W. Abut.



**SECTION A-A**

➔ C

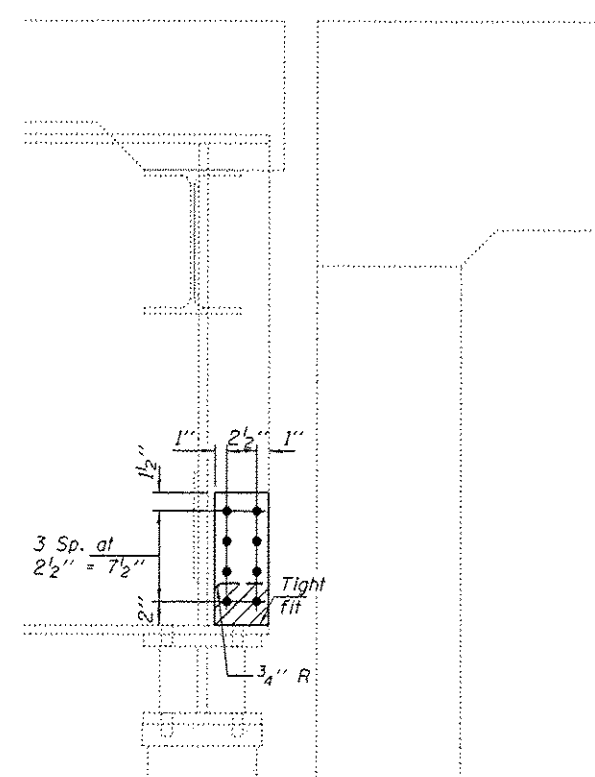
➔ B



↳ B

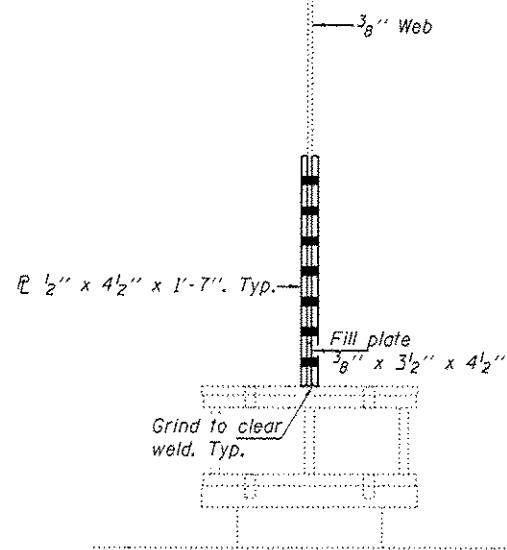
**REPAIR B**

Typ. of:  
 BM 13 E. Abut., BM 3 W. Abut. & BM 6 W. Abut.



**SECTION B-B**

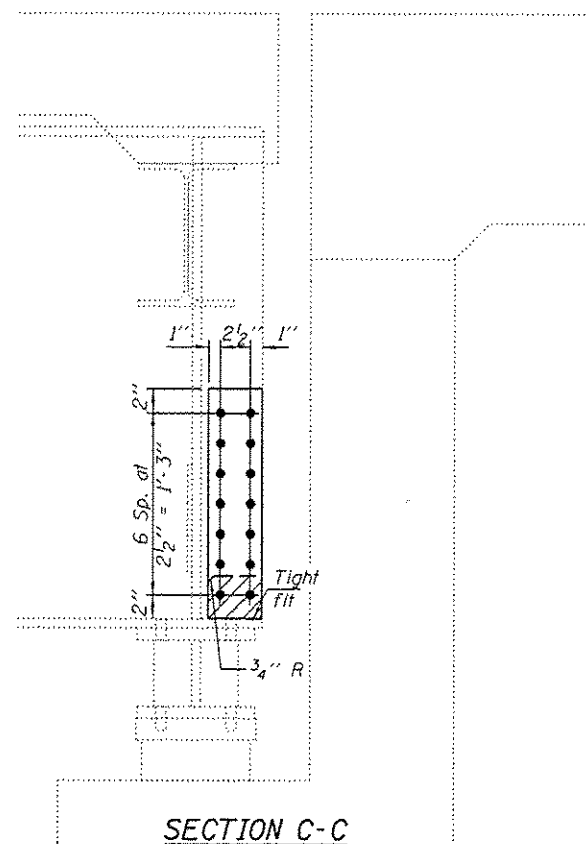
➔ C



↳ C

**REPAIR C**

Typ. of:  
 BM 10 E. Abut.



**SECTION C-C**

Notes:  
 Hatched areas indicate removal. Cost included with Structural Steel Repair.  
 Use holes in new plates as a template for drilling holes in girder web.

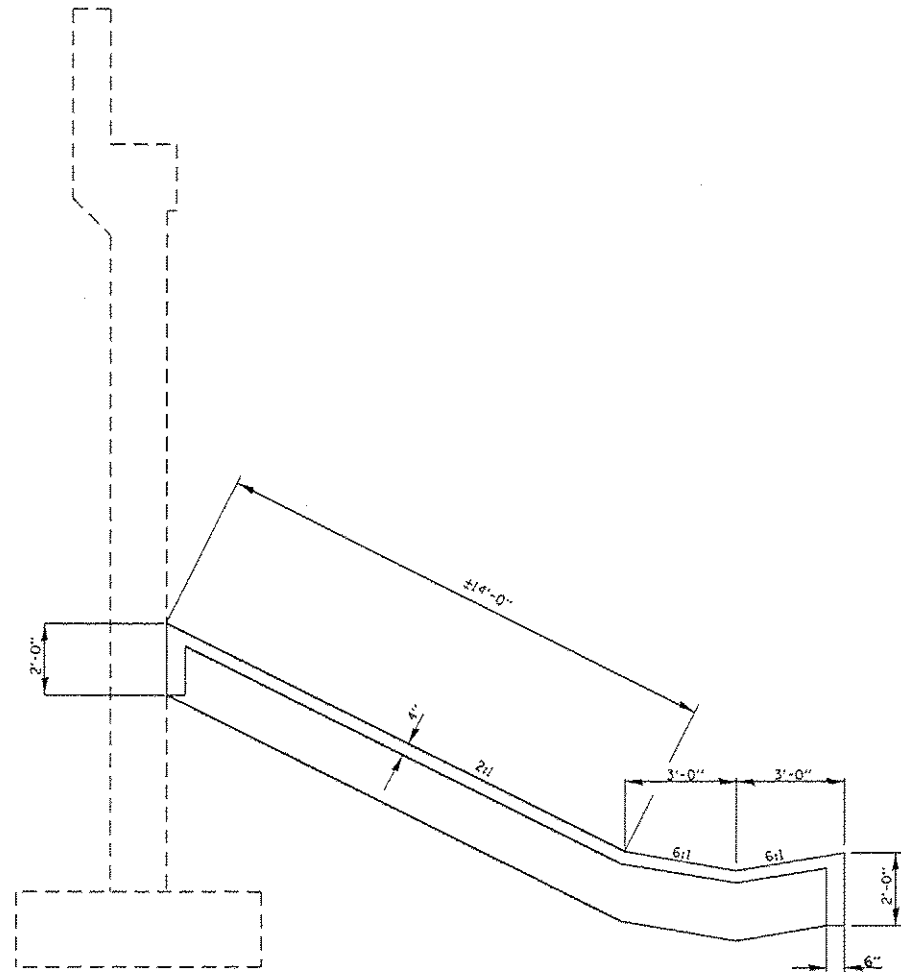
DESIGNED - SMR	EXAMINED
CHECKED - ATH	PASSED
DRAWN - baliva	
CHECKED - SMR ATH	

 ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - APRIL 22, 2014
 ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
	REVISED

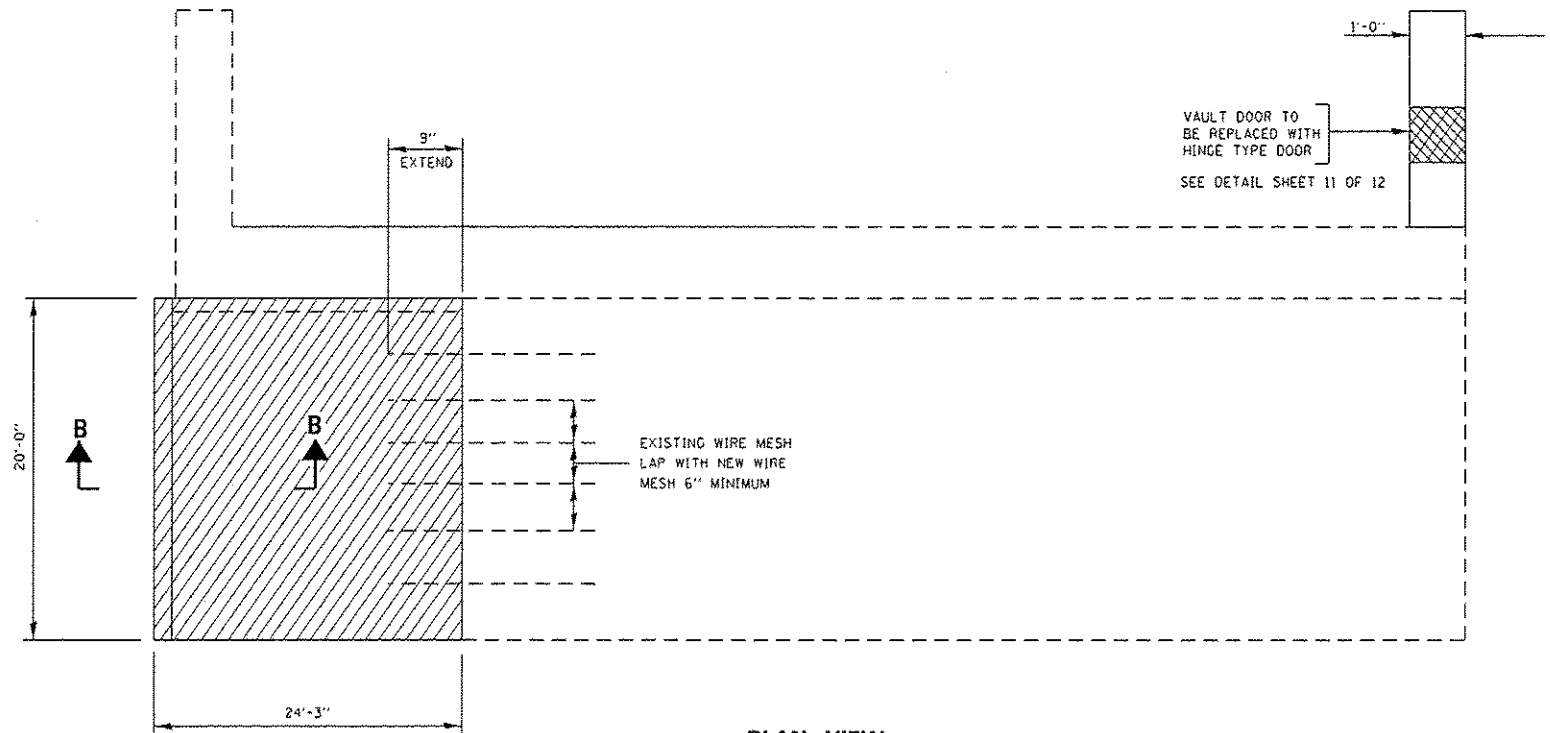
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>REPAIR DETAILS</b>	
SN 016-0285	
SHEET NO. 9 OF 12 SHEETS	

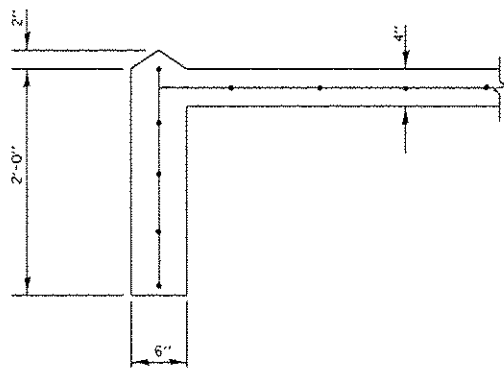
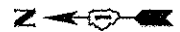
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	0404-1004HB-BR	COOK	28	12
CONTRACT NO. 60X21			ILLINOIS FED. AID PROJECT	



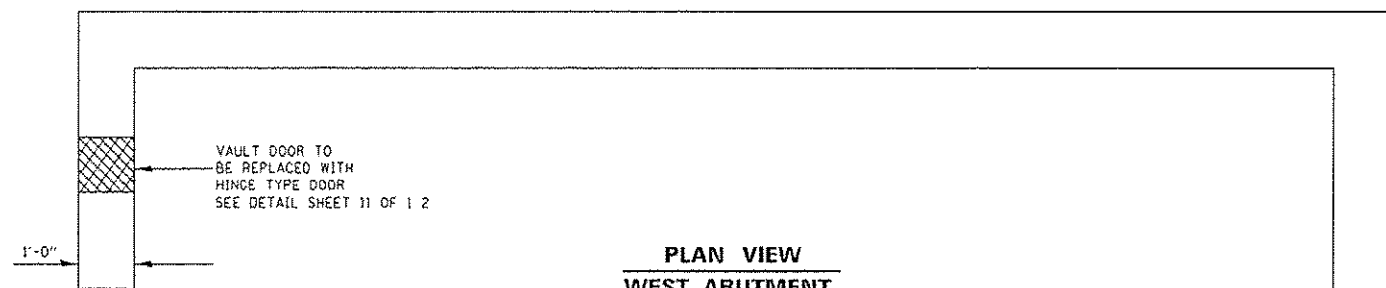
SECTION THRU SLOPEWALL AT VAULTED ABUTMENTS



PLAN VIEW  
EAST ABUTMENT



SECTION B-B



PLAN VIEW  
WEST ABUTMENT

LEGEND:

- SLOPEWALL REMOVAL AND SLOPEWALL 4"
- CONCRETE REMOVAL

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
SLOPEWALL 4"	SO.YD.	54
CONCRETE REMOVAL	CU.YD.	1.4
SLOPE WALL REMOVAL	SO.YD.	54
CONCRETE STRUCTURE	SO.YD.	1.4

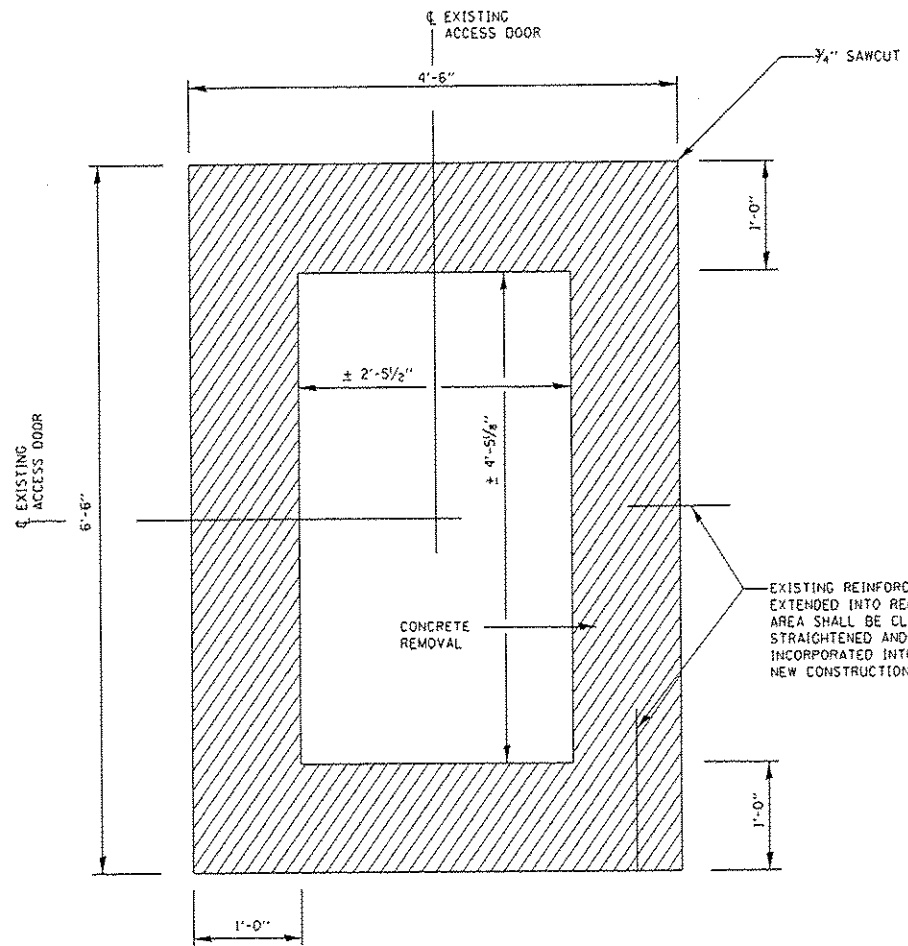
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		CHECKED - RTB	REVISED -
Default	PLOT DATE = 5/2/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

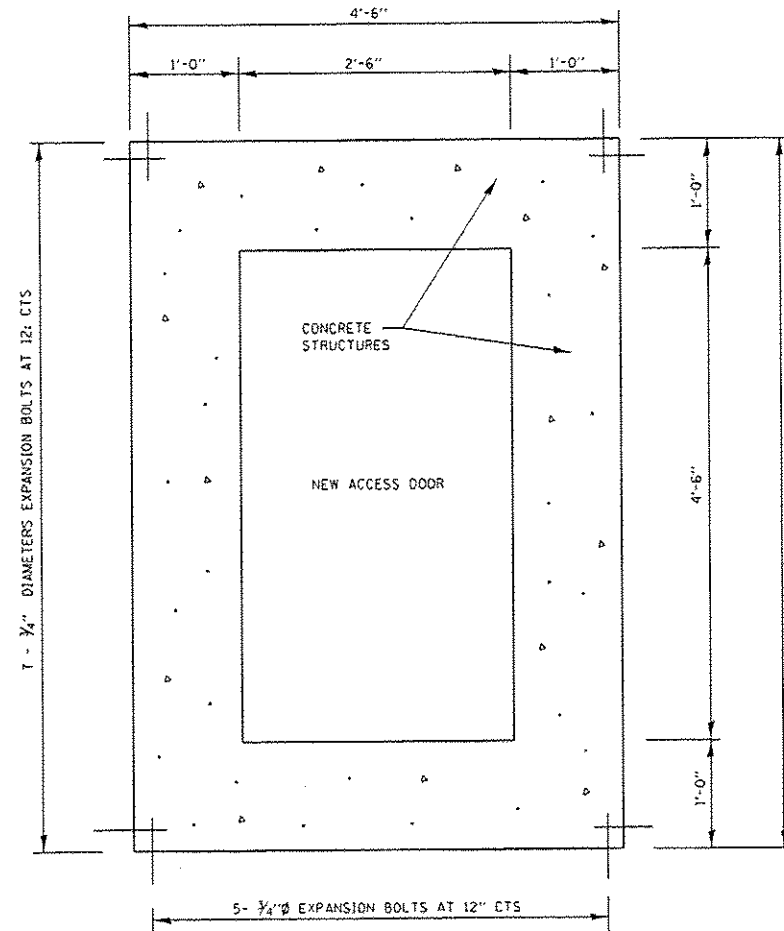
U.S. 30 (LINCOLN HIGHWAY) BRIDGE OVER I-57  
SLOPEWALL REPAIR AT EAST ABUTMENT AND VAULT DOOR LOCATIONS  
S.N. 016-0285

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	D404-1004HB-BR	COOK	28	13
CONTRACT NO. 60X21			[ILLINOIS] FED. AID PROJECT	

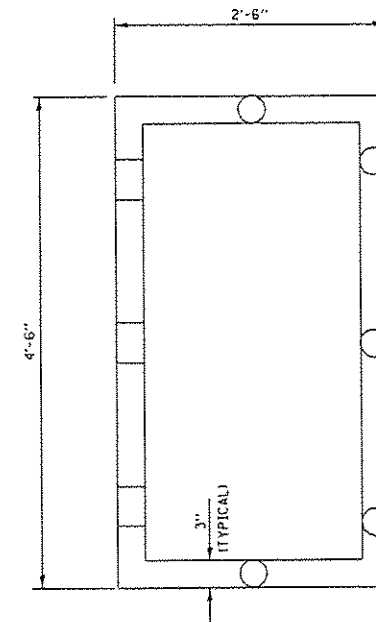
SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.



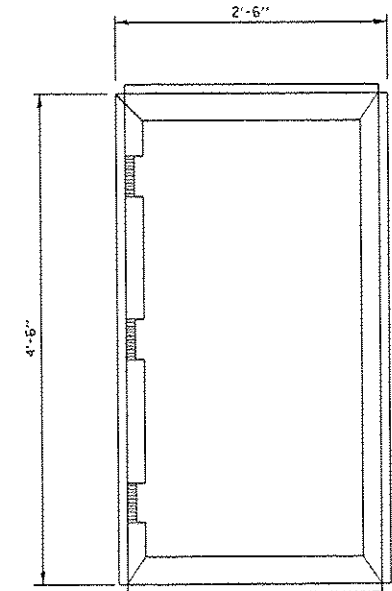
**CONCRETE REMOVAL DETAIL**



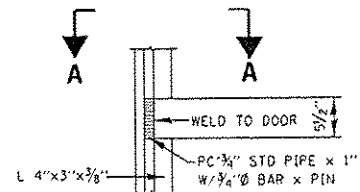
**CONCRETE FILL AT ACCESS HOLE**



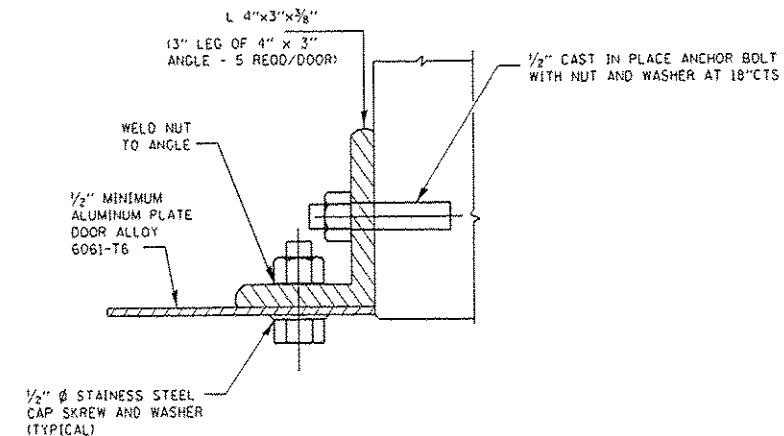
**PROPOSED DOOR**



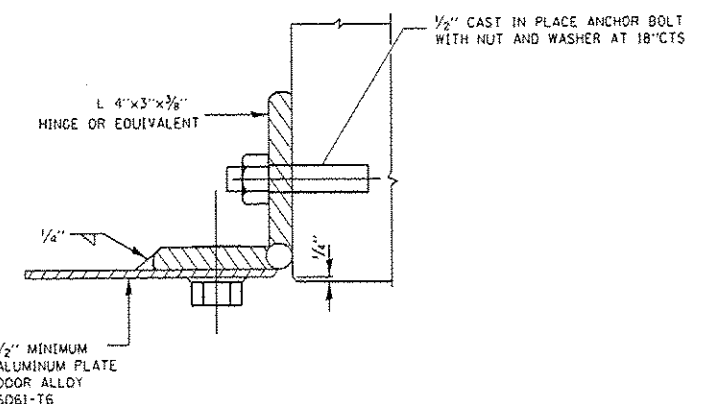
**FRAME**



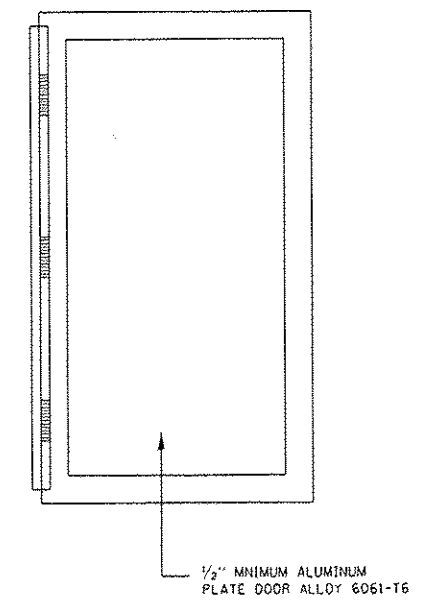
**HINGE DETAIL**



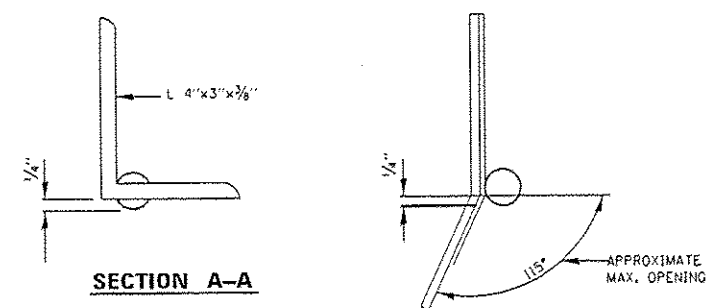
**SECTION B-B**



**SECTION C-C**



**FRAME WITH COVER**



**SECTION A-A**

**NOTES:**  
 EXPANSION BOLTS SHALL BE 3/4" DIAMETER HOOKED BOLTS AND SHALL EXTEND 9" MINIMUM INTO CONCRETE.  
 PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH EPOXY PAINT.  
 COST OF ACCESS DOOR REMOVAL AND REPLACEMENT ( 2 LOCATIONS) IS INCLUDED IN THE COST OF CONCRETE STRUCTURES.  
 FOR ACCESS DOOR LOCATIONS SEE SHEET 10 OF 12

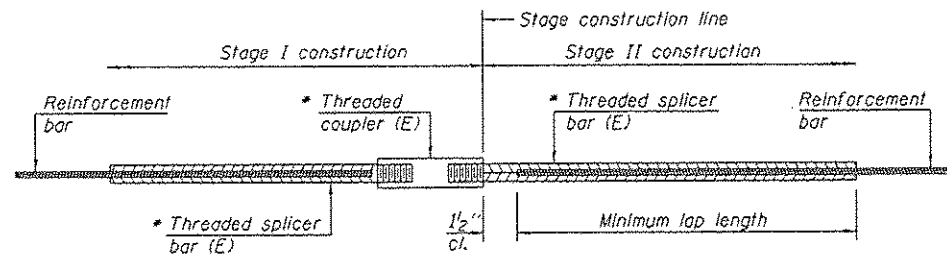
**LEGEND:**  
 CONCRETE REMOVAL

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PLOT SCALE = 100.0000' / 1"		CHECKED - RTB	REVISED -
PLOT DATE = 5/2/2014		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**U.S. 30 (LINCOLN HIGHWAY) BRIDGE OVER I-57  
 VAULTED ABUTMENT DOOR DETAILS  
 S.N. 016-0285**  
 SCALE: SHEET 11 OF 12 SHEETS STA. TO STA.

P.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	14
CONTRACT NO. 60X21				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

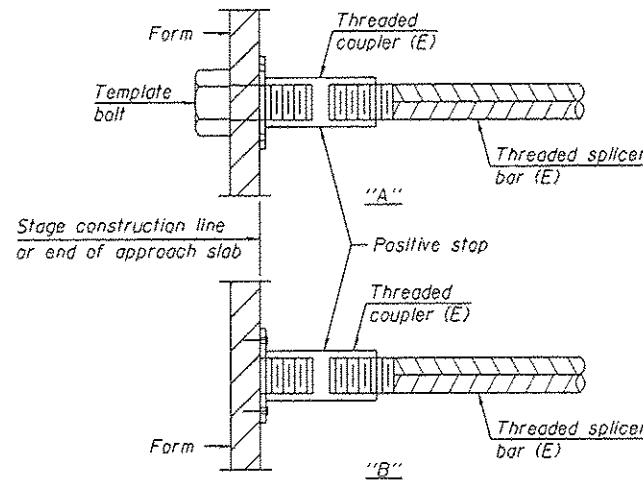
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

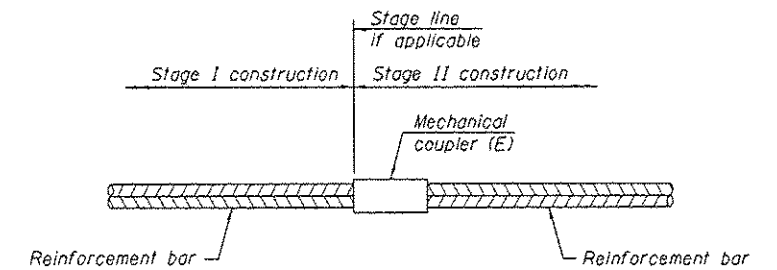
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutment			
Deck	#5	24	



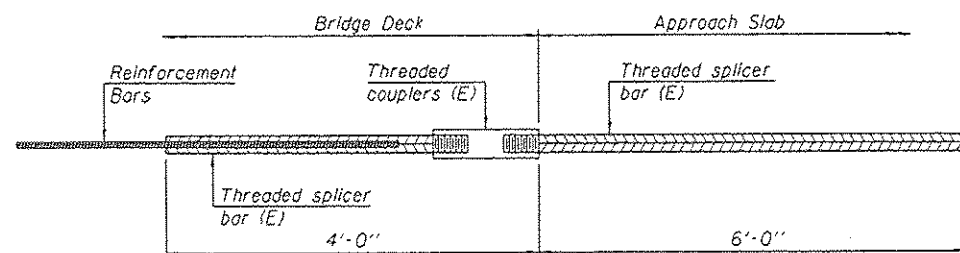
INSTALLATION AND SETTING METHODS

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



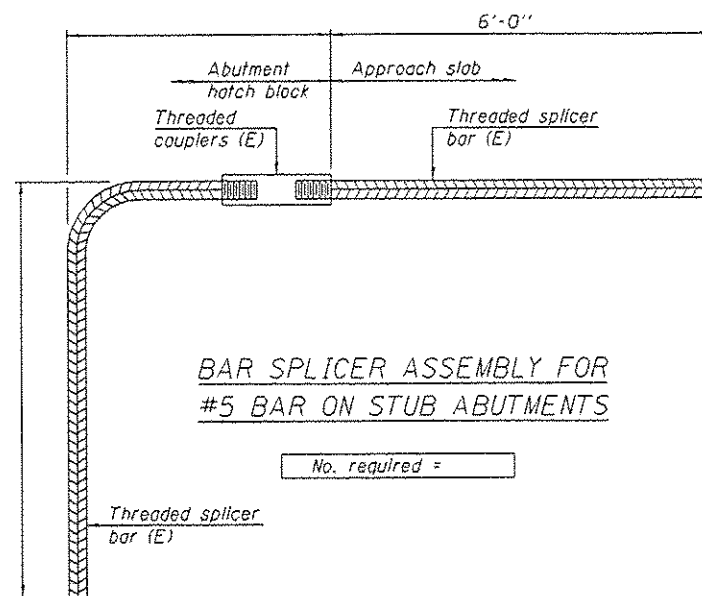
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

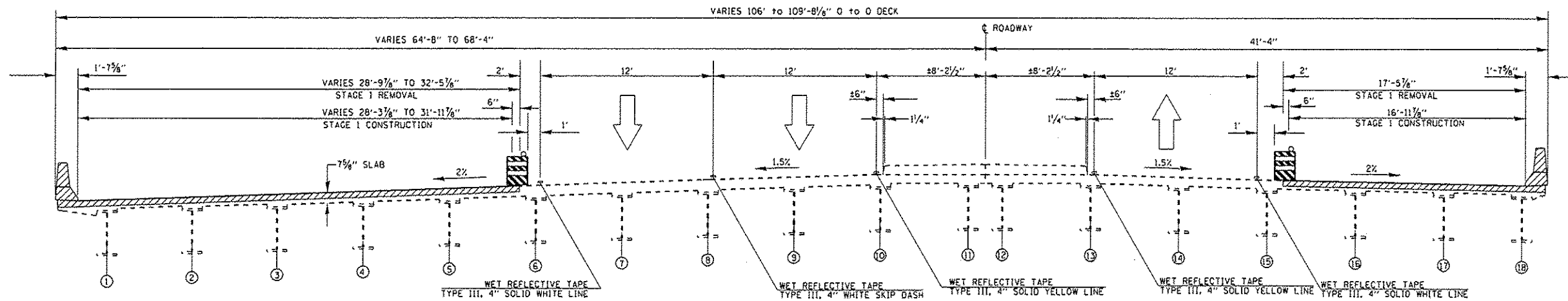
- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.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

BSD-1

1-27-12

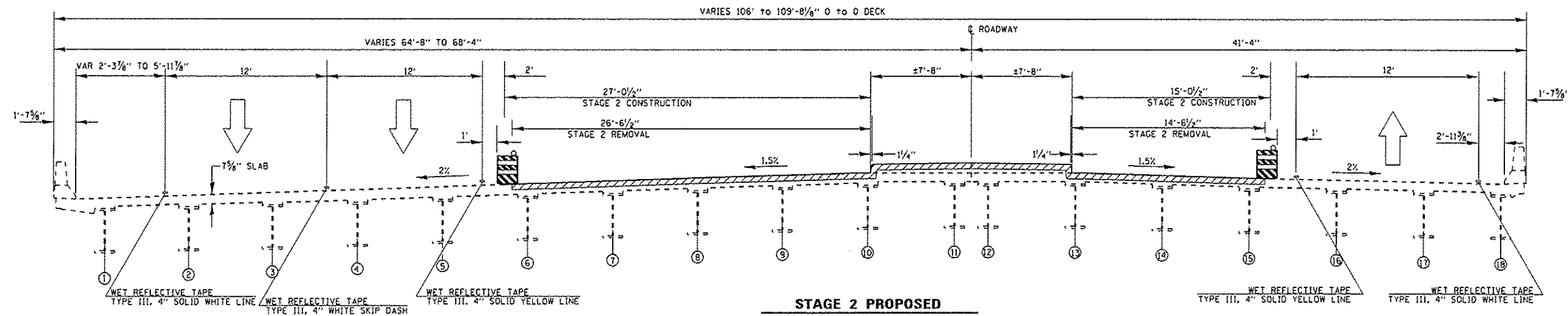
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PLOT SCALE : 1/8" = 1'-0"	CHECKED : RTB	DATE :	REvised :			SCALE :	SHEET NO. 12 OF 12 SHEETS	STA. :	TO STA. :	CONTRACT NO. 60X21		
PLOT DATE : 5/2/2014	DATE :	REvised :	REvised :			ILLINOIS FED. AID PROJECT						



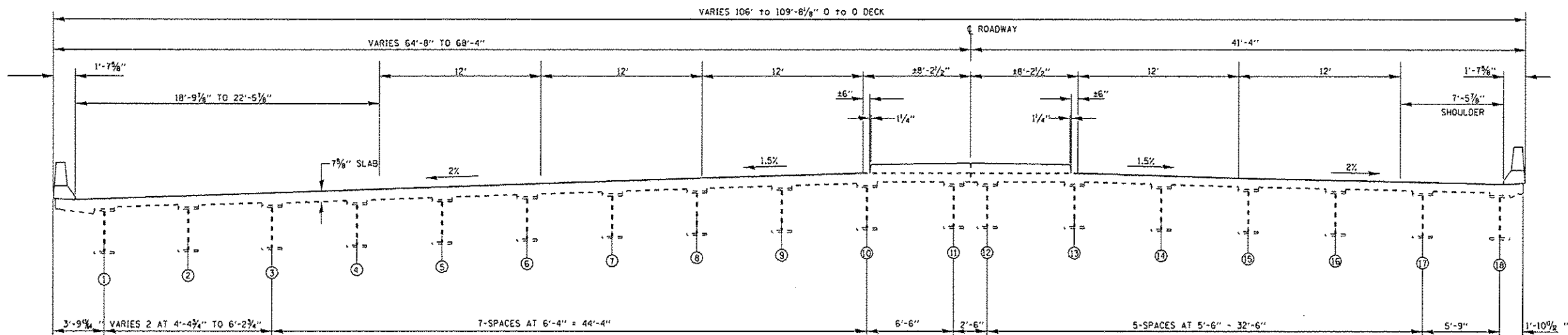


**STAGE 1 PROPOSED**  
**SN 016-0285 LOOKING WEST**

CONCRETE REMOVAL

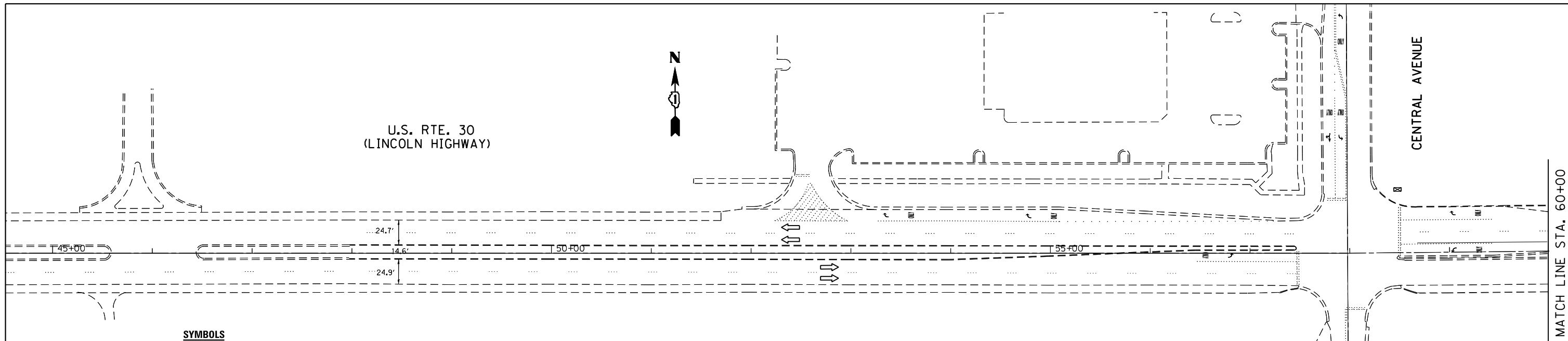


**STAGE 2 PROPOSED**  
**SN 016-0285 LOOKING WEST**



**BRIDGE CROSS SECTION**  
**SN 016-0285 LOOKING WEST**

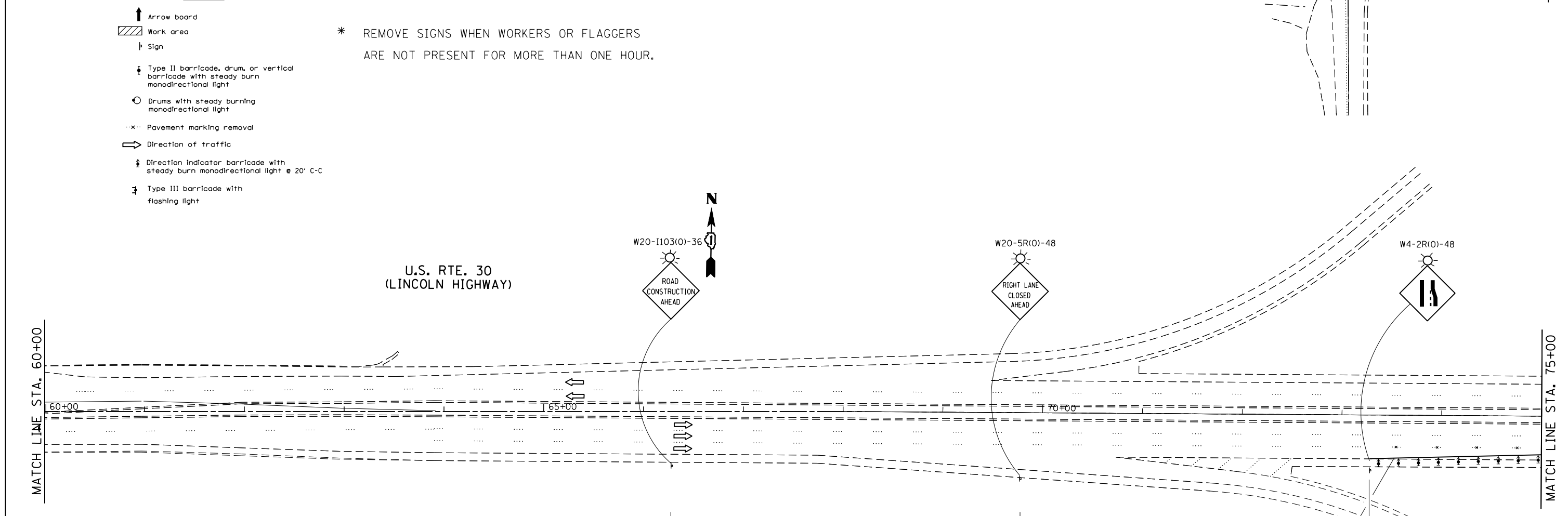
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	PLOT DATE = 4/1/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



**SYMBOLS**

- ↑ Arrow board
- ▨ Work area
- ⊢ Sign
- ⊣ Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- ⊙ Drums with steady burning monodirectional light
- ⋯ Pavement marking removal
- Direction of traffic
- ⊣ Direction Indicator barricade with steady burn monodirectional light @ 20' C-C
- ⊣ Type III barricade with flashing light

\* REMOVE SIGNS WHEN WORKERS OR FLAGGERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.



**NOTES**

1. EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED.
2. ALL SIGNS SHALL BE POST MOUNTED.



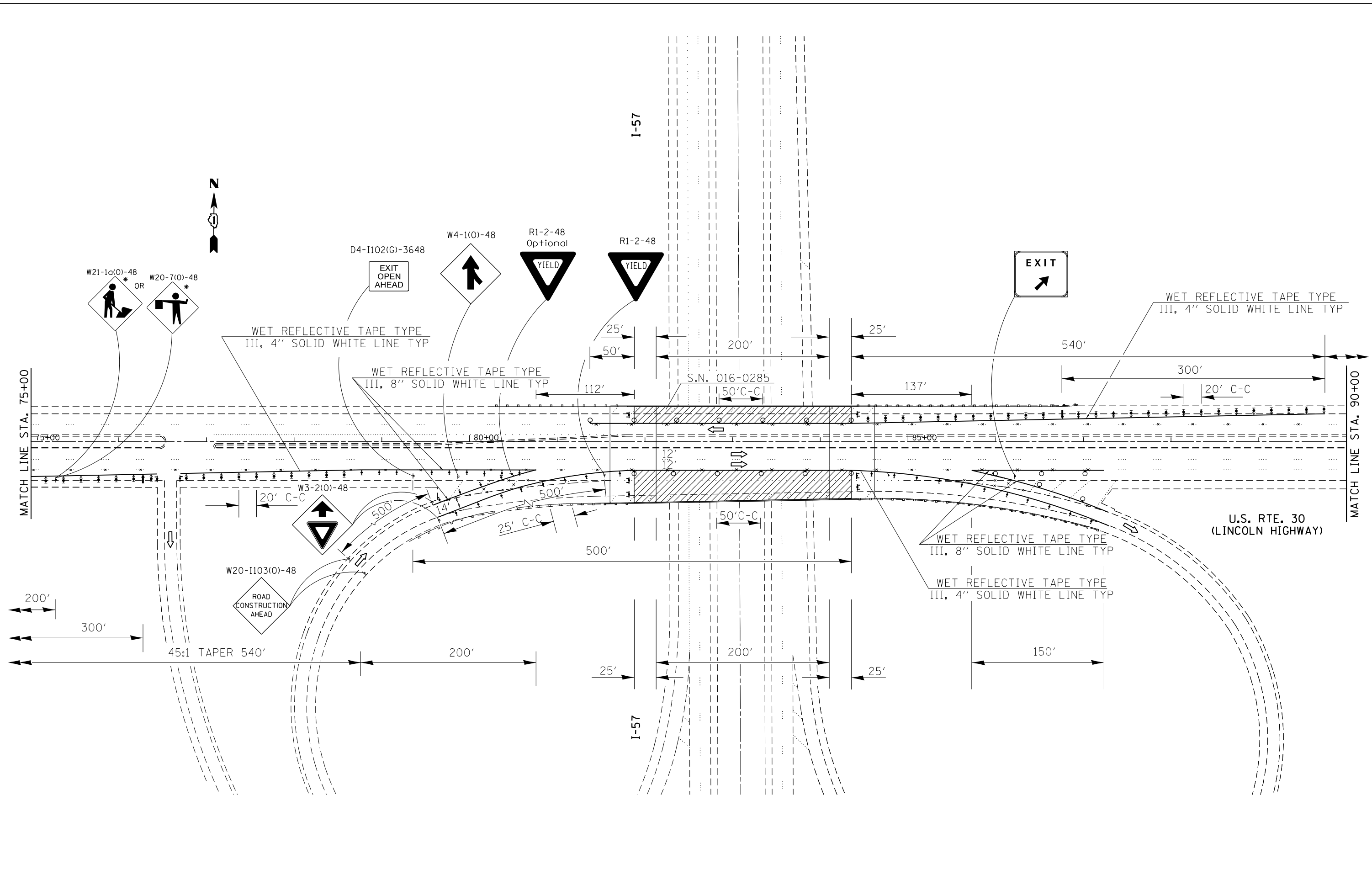
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 OVER I-57  
TRAFFIC CONTROL PLAN STAGE I**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	17
CONTRACT NO. 60X21				
ILLINOIS FED. AID PROJECT				



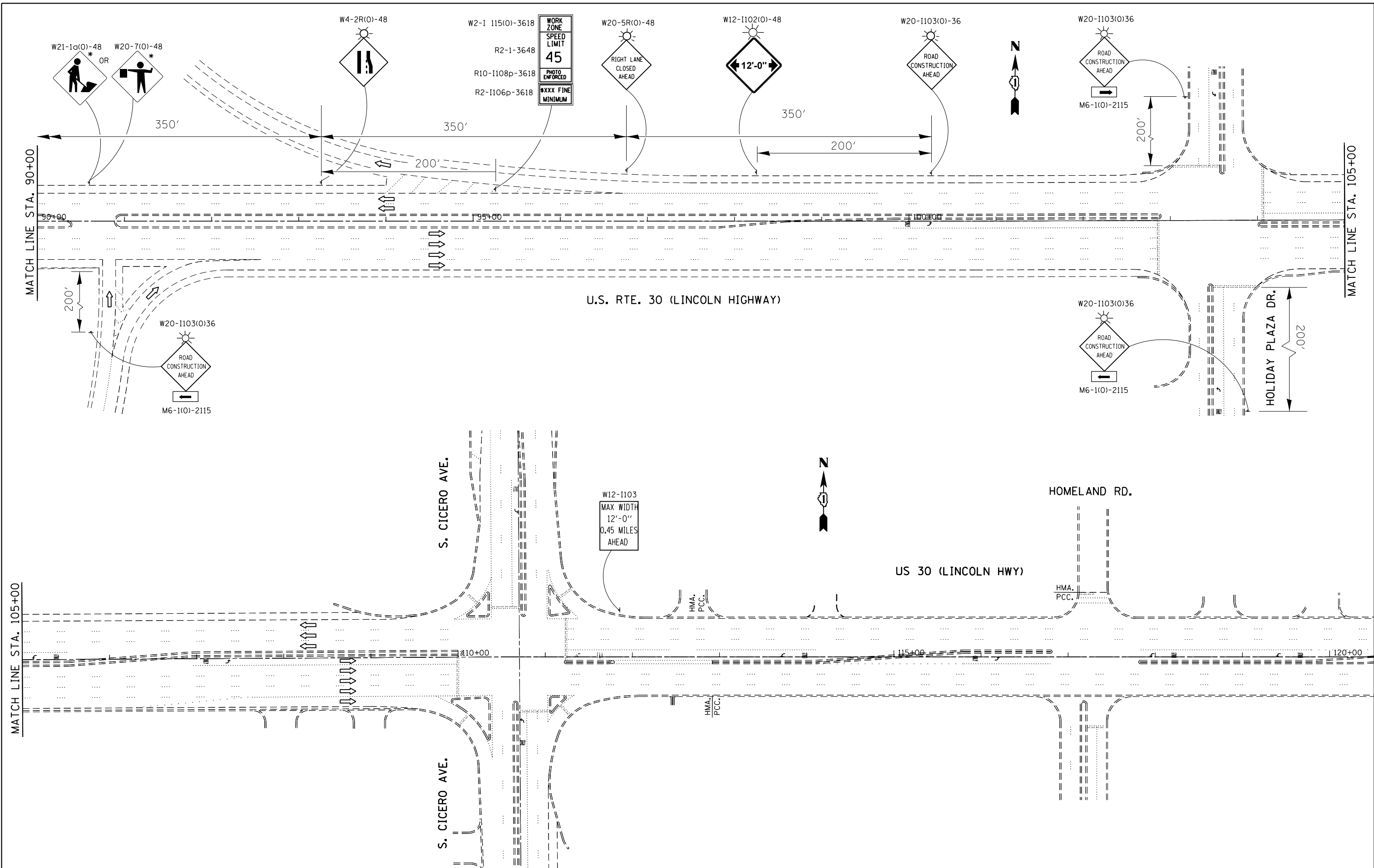
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	PLOT DATE = 4/4/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 OVER I-57  
TRAFFIC CONTROL PLAN STAGE I**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	18
CONTRACT NO. 60X21			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.



FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -
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	PLOT DATE = 4/4/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 OVER I-57  
TRAFFIC CONTROL PLAN STAGE I**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	19
CONTRACT NO. 60X21				
ILLINOIS FED. AID PROJECT				

W12-1103  
 MAX WIDTH  
 10'-6"  
 0.35 MILES  
 AHEAD  
 TO BE PLACED AT  
 IL 43 (HARLEM AVE)

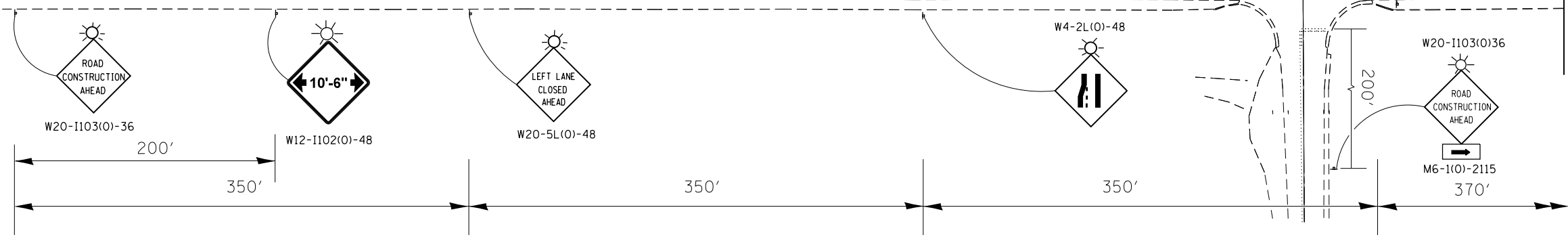
WEST U.S. RTE. 30  
 (LINCOLN HIGHWAY)

CENTRAL AVENUE

W2-1 115(O)-3618  
 R2-1-3648  
 R10-1108p-3618  
 R2-1106p-3618  
 WORK ZONE  
 SPEED LIMIT  
 45  
 PHOTO ENFORCED  
 XXX FINE  
 MINIMUM

MATCH LINE STA. 60+00

- SYMBOLS**
- ↑ Arrow board
  - ▨ Work area
  - ⊥ Sign
  - ⊥ Type II barricade, drum, or vertical barricade with steady burn monodirectional light
  - Drums with steady burning monodirectional light
  - ⋯ Pavement marking removal
  - ⇒ Direction of traffic
  - ⊥ Type III barricade with flashing light
  - ⊥ Direction Indicator barricade with steady burn monodirectional light @ 20' C-C

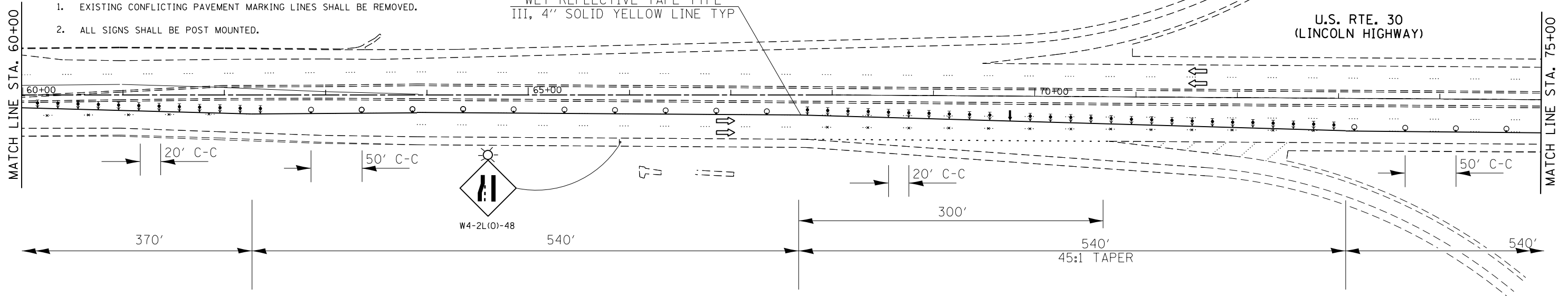


\* REMOVE SIGNS WHEN WORKERS OR FLAGGERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

**NOTES**

1. EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED.
2. ALL SIGNS SHALL BE POST MOUNTED.

WET REFLECTIVE TAPE TYPE III, 4" SOLID YELLOW LINE TYP

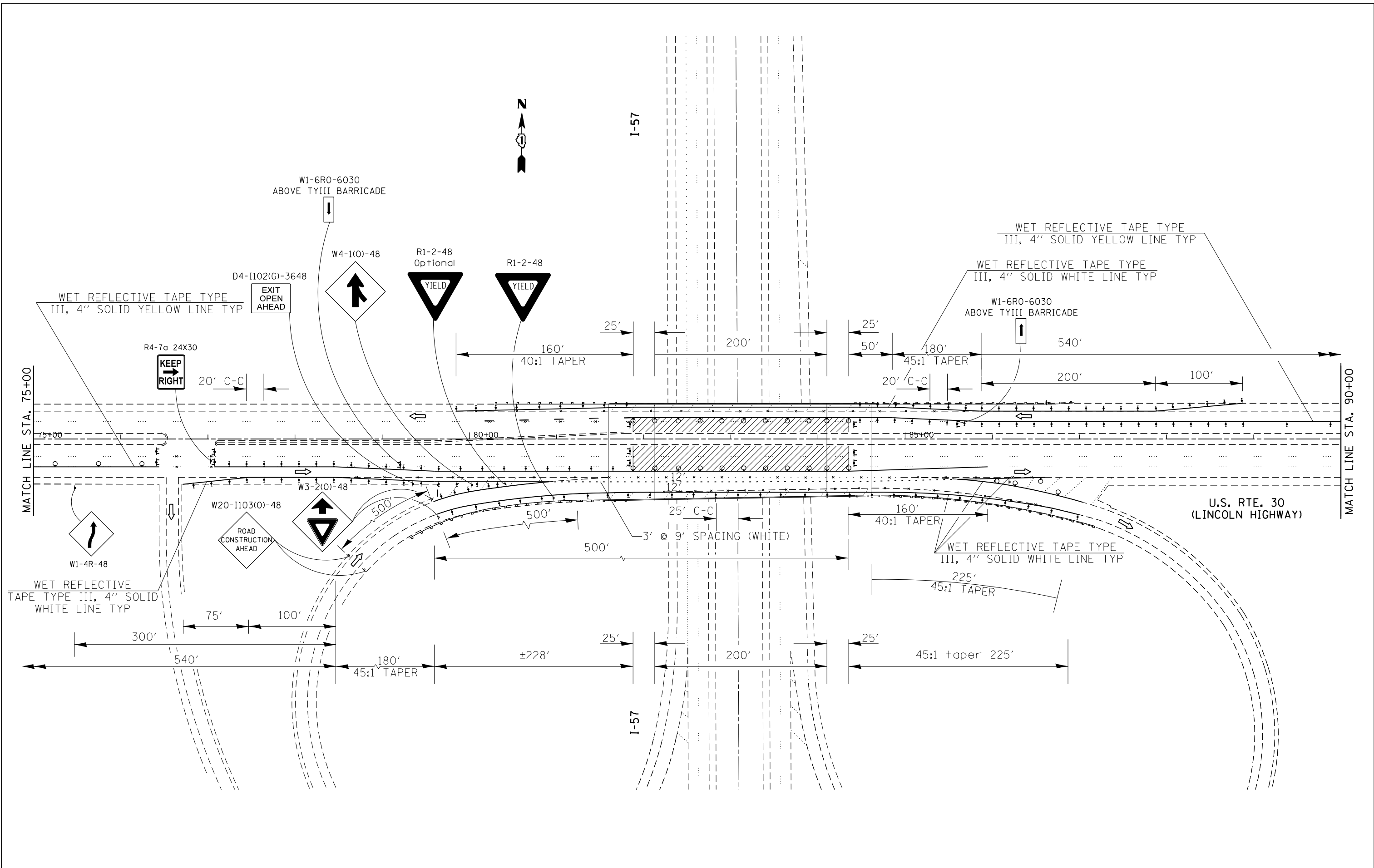


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Default	PLOT DATE = 4/4/2014	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 OVER I-57  
 TRAFFIC CONTROL PLAN STAGE II  
 SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	20
CONTRACT NO. 60X21				ILLINOIS FED. AID PROJECT



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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/4/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 OVER I-57  
TRAFFIC CONTROL PLAN STAGE II**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	21
CONTRACT NO. 60X21				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

R4-7a 24X30

KEEP RIGHT

W1-4R-48



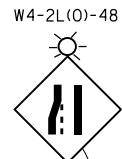
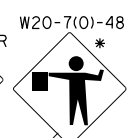
W2-1 115(O)-3618

R2-1-3648

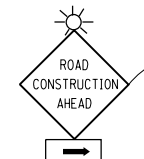
R10-1108p-3618

R2-1106p-3618

WORK ZONE  
SPEED LIMIT  
45  
PHOTO ENFORCED  
\$XXX FINE  
MINIMUM



W20-1103(O)36



M6-1(O)-2115



W20-5L(O)-48

540'  
45:1 TAPER

300'

350'

200'

420'

200'

200'

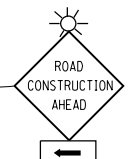
MATCH LINE STA. 90+00

MATCH LINE STA. 105+00

WET REFLECTIVE TAPE TYPE III, 4" SOLID YELLOW LINE TYP

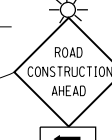
EAST U.S. RTE. 30 (LINCOLN HIGHWAY)

W20-1103(O)36



M6-1(O)-2115

HOLIDAY PLAZA DR.



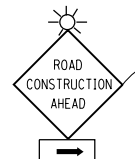
M6-1(O)-2115

MATCH LINE STA. 105+00

350'

200'

W20-1103(O)36



M6-1(O)-2115

S. CICERO AVE.

W12-1103  
MAX WIDTH  
14'-6"  
0.3 MILES  
AHEAD

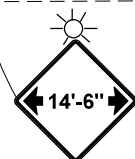


HOMELAND RD.

US 30 (LINCOLN HWY)

HMA.  
PCC.

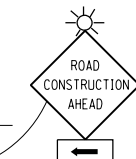
S. CICERO AVE.



W12-1102(O)-48



W20-1103(O)-36



M6-1(O)-2115

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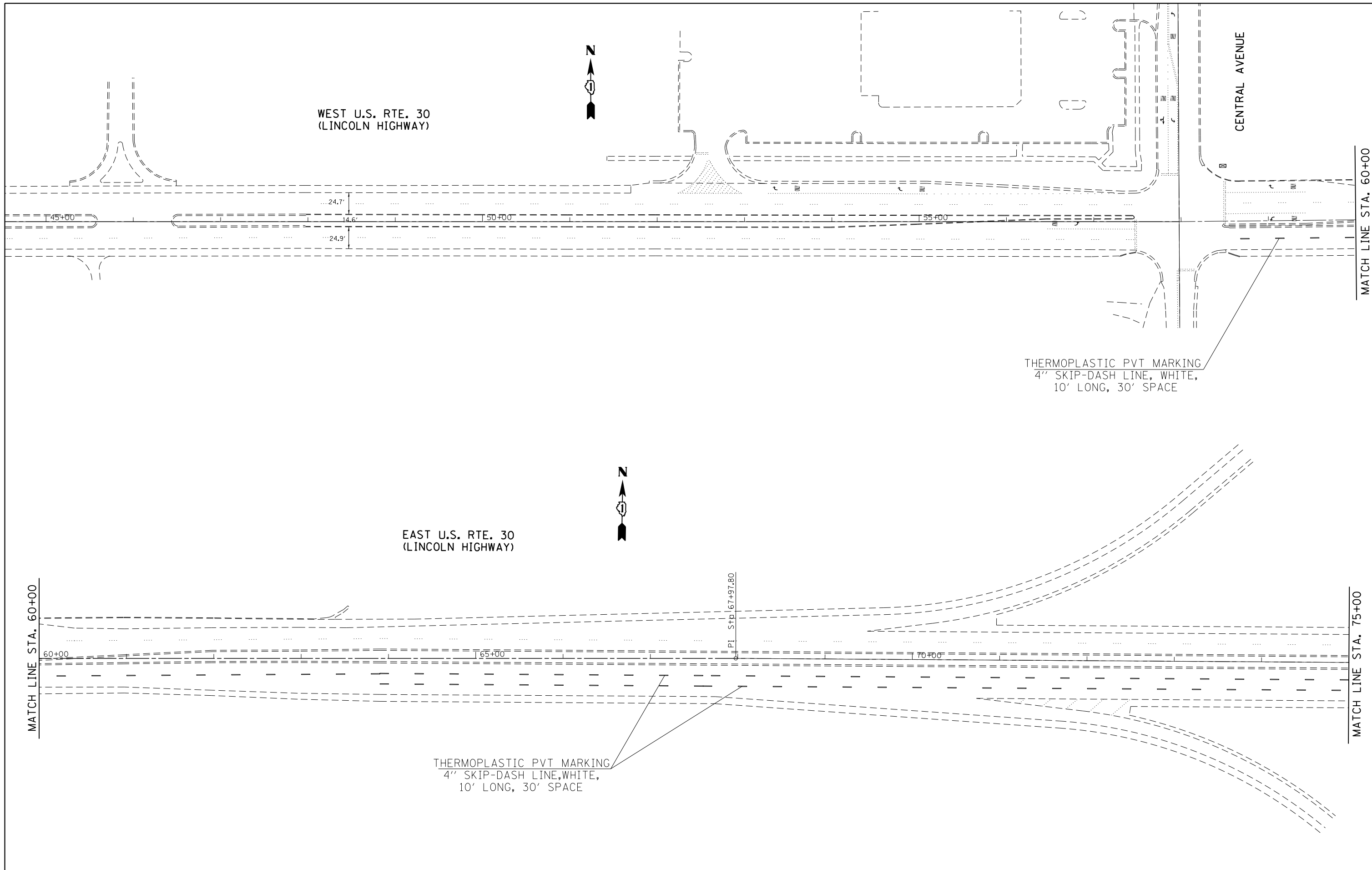
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 OVER I-57  
TRAFFIC CONTROL PLAN STAGE II

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	22
				CONTRACT NO. 60X21
ILLINOIS FED. AID PROJECT				





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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/30/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 OVER I-57  
PAVEMENT MARKING PLAN**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

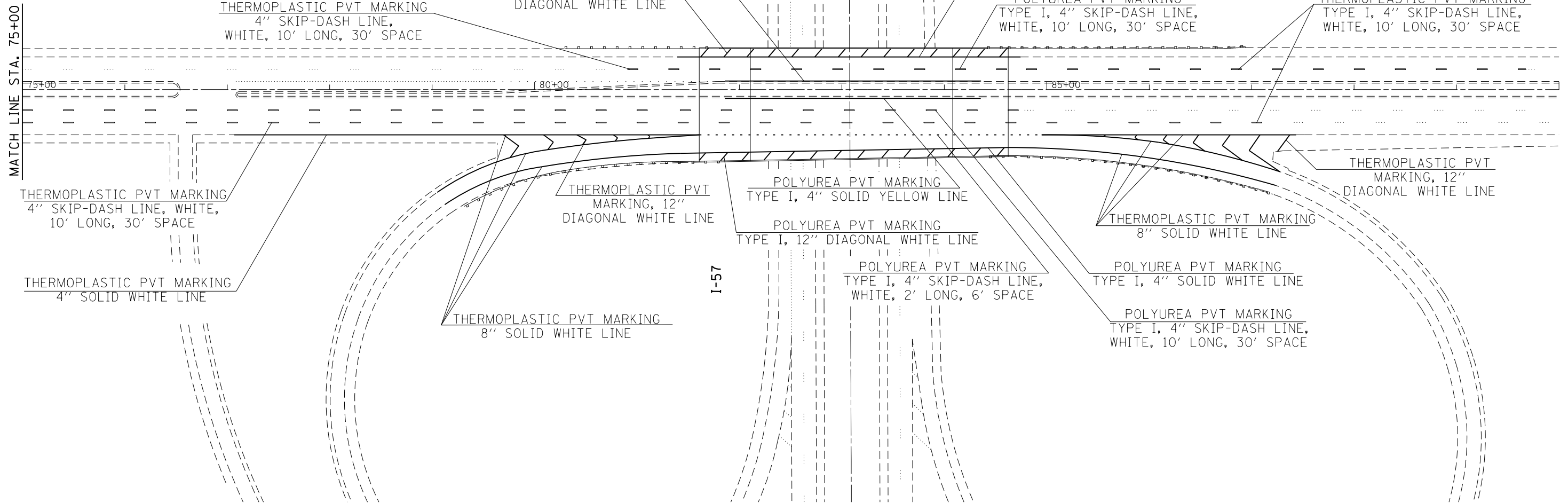
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	23
CONTRACT NO. 60X21				
ILLINOIS FED. AID PROJECT				

EAST U.S. RTE. 30  
(LINCOLN HIGHWAY)



I-57

I-57



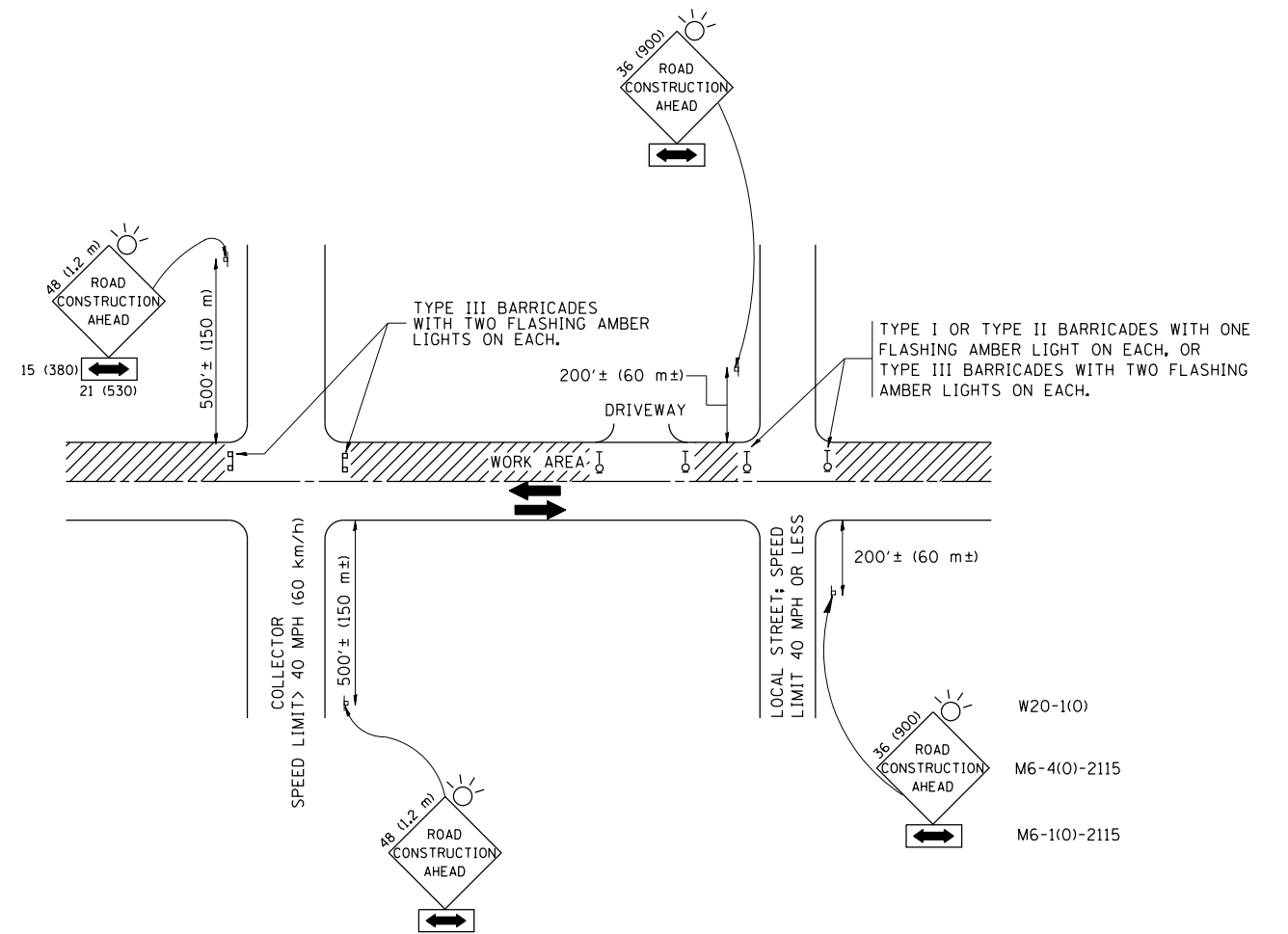
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/30/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 OVER I-57  
PAVEMENT MARKING PLAN

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	24
CONTRACT NO. 60X21				
ILLINOIS FED. AID PROJECT				



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.

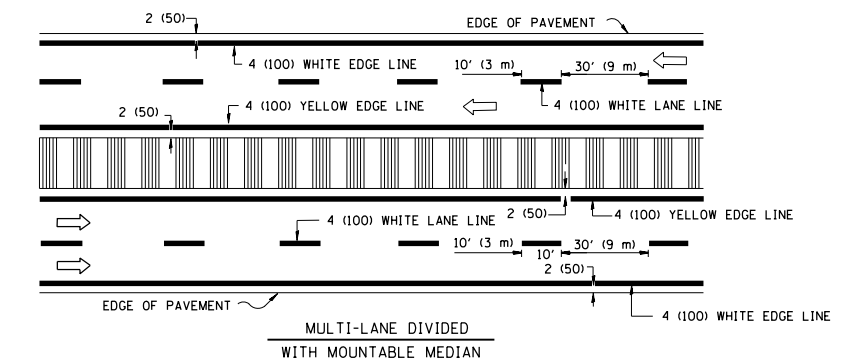
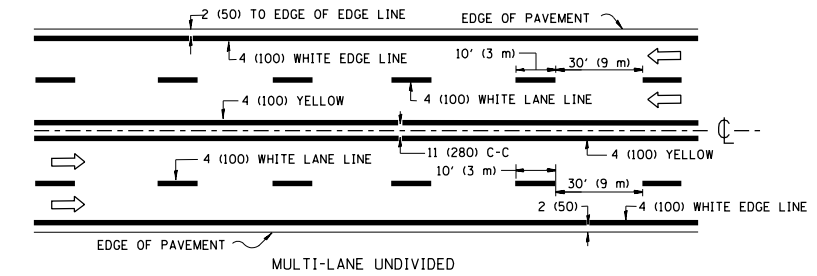
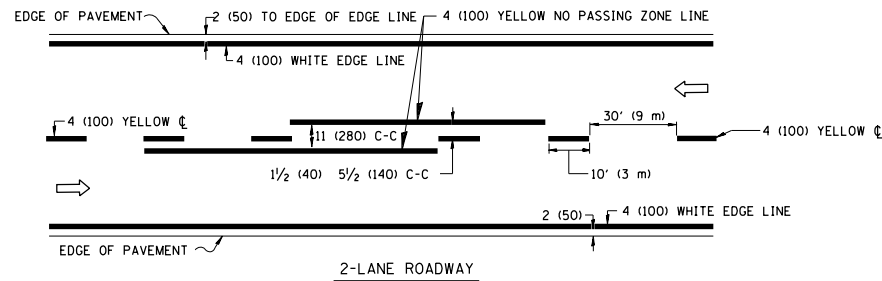
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	PLOT DATE = 4/4/2014	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

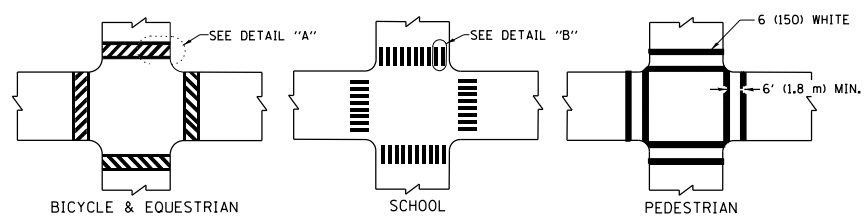
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60X21	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

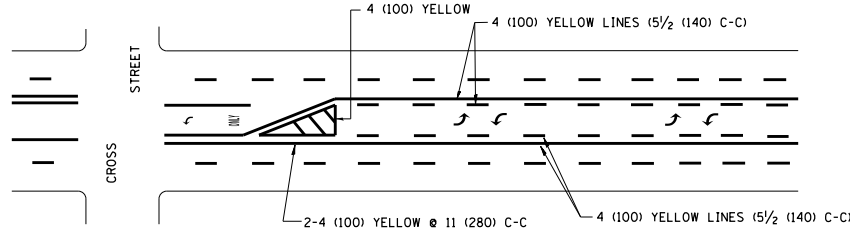
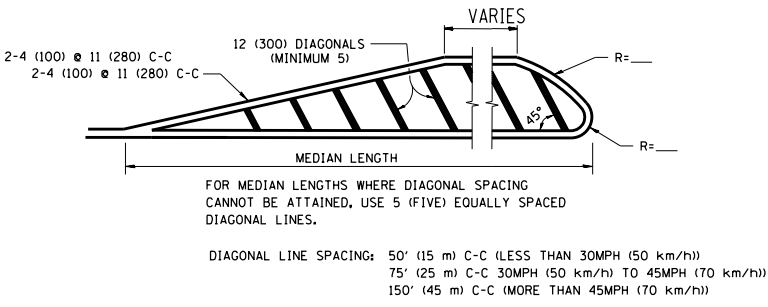
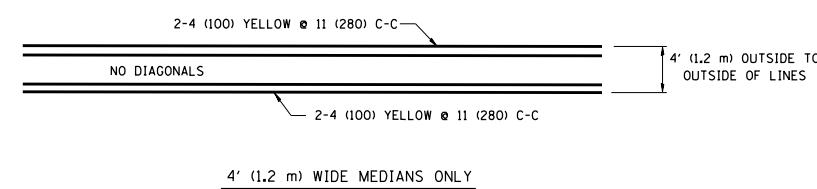


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

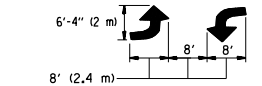
**TYPICAL LANE AND EDGE LINE MARKING**



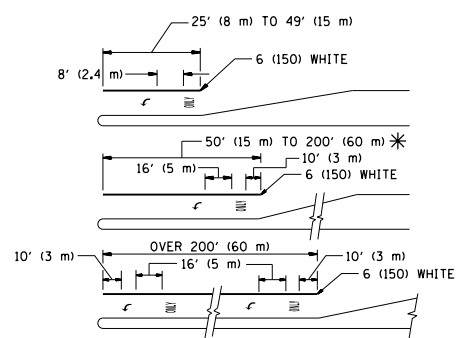
**TYPICAL CROSSWALK MARKING**



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.

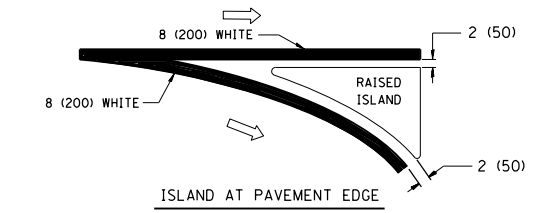
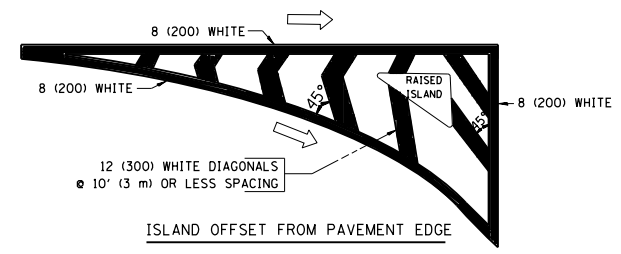


**TYPICAL PAINTED MEDIAN MARKING**



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* 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**



**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	5/2' (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; 5/2' (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) MIN. LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> ) 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.

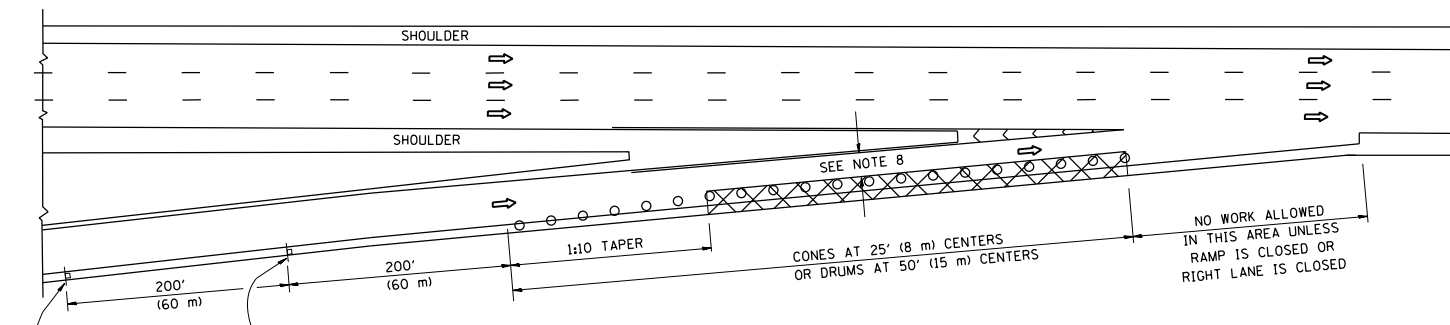
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

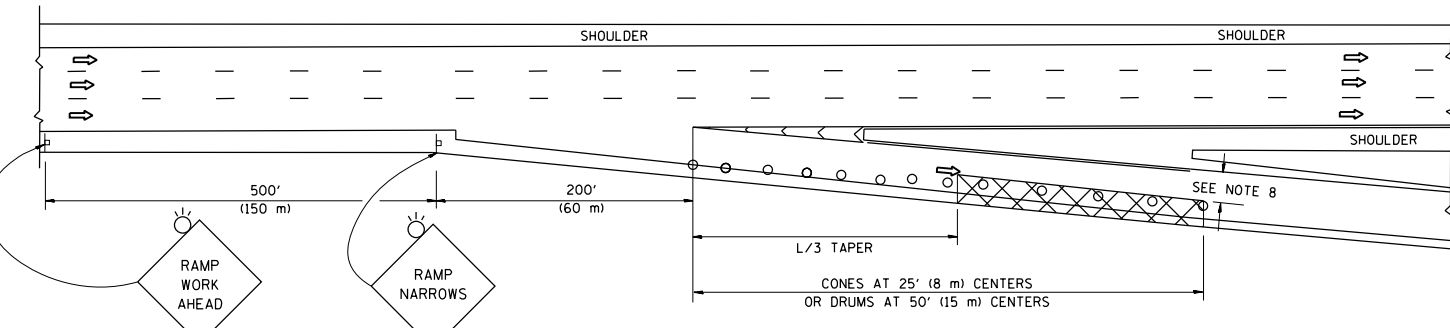
DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	0404-1004HB-BR	COOK	28	26
TC-13		CONTRACT NO. 60X21		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

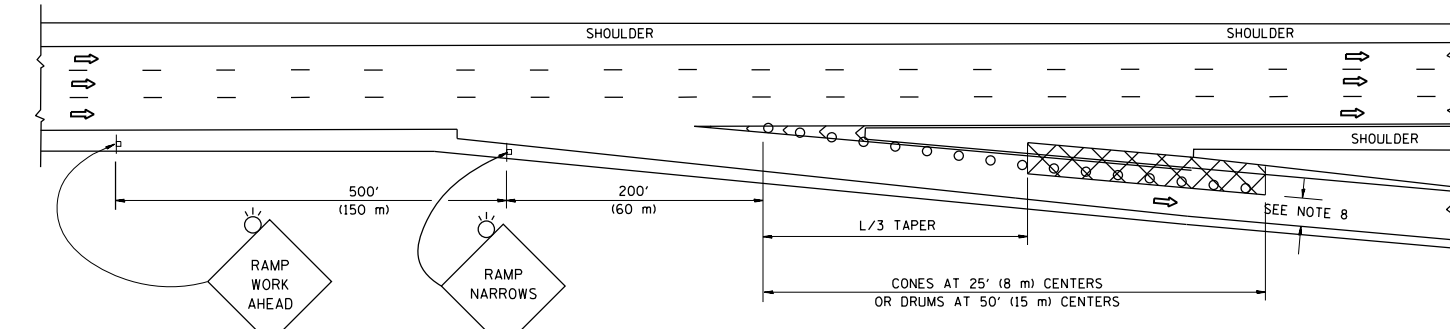
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

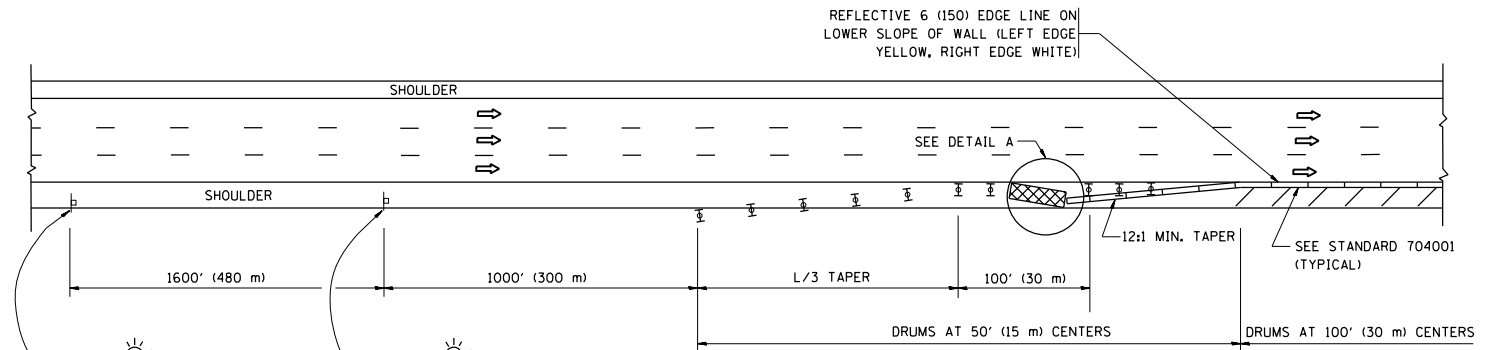
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

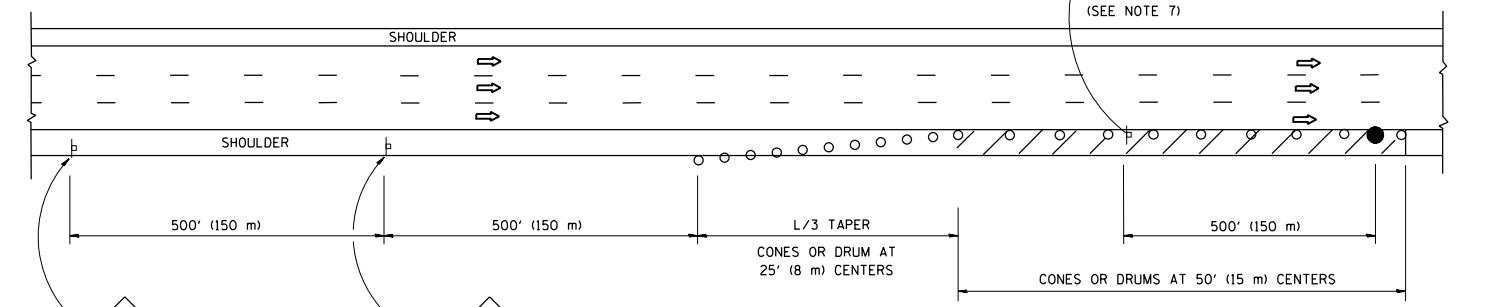
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH L=0.65(W)(S)    L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

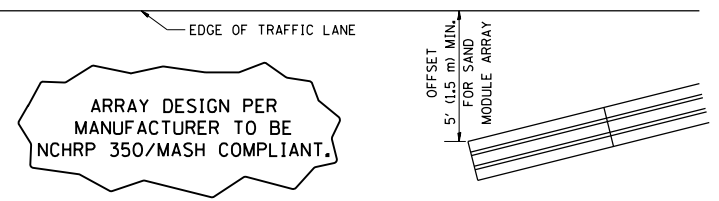


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCRACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION  
16" MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = hardnettr	DESIGNED -	REVISED - J.A.F. 12-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p\dot\hardnettr\d0374764\0	04114-shr-plen.dgn	DRAWN - D.W.S.	REVISED - S.P.B. 01-07			353	0404-1004HB-BR	COOK	28	27	
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	PLOT DATE = 4/4/2014	DATE - 11-96	REVISED - M.D. 06-13			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

