

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94 & 290	2012-0241	COOK	13	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60T69		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE VILLAGES OF BERKELEY, BROADVIEW, AND LINCOLNWOOD.

# PROPOSED HIGHWAY PLANS

F.A.I. ROUTES 94 & 290  
VARIOUS LOCATIONS  
SECTION: 2012-0241  
PERMANENT PROTECTIVE SHIELDING  
COOK COUNTY  
C-91-418-12

- LOC 1) I-94 AT PRATT AVE. SN 016-0831
- LOC 2) I-290 AT ST. CHARLES RD. SN 016-1136
- LOC 3) I-290 AT 17TH AVE. SN 016-0694

FOR LOCATION MAPS SEE SHEET 4



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

PROJECT ENGINEER ROBERT BORO (847) 705-4237  
PROJECT MANAGER ISSAM RAYYAN (847) 705-4178  
CONTRACT NO. 60T69

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct 6, 19 20 12  
John Fort...  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7 20 12  
John D. Baramelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 20 12  
William B. Frye, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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## STATE STANDARDS

- 701101-03 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701400-06 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-07 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-08 LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS  $\geq$  45 MPH
- 701446-04 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901-03 TRAFFIC CONTROL DEVICES

## GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (1-800)-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.

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

THE CONTRACTOR SHALL RELOCATE ANY CONDUIT ATTACHED TO THE FLANGE PRIOR TO THE INSTALLATION OF THE PROTECTIVE SHIELDING. UNDER NO CIRCUMSTANCES SHALL THE PROTECTIVE SHIELDING REST ON TOP OF THE CONDUIT.

ANY WORK DONE BY THE CONTRACTOR ON THE UNDERPASS LIGHTING SYSTEM WILL REQUIRE A TRANSFER OF MAINTENANCE OF THE EFFECTED CIRCUITS TO THE CONTRACTOR. ALTERNATIVELY, THE CONTRACTOR CAN AVOID A MAINTENANCE TRANSFER BY HIRING THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC) TO RELOCATE THE CONDUIT.

WHERE UNDERPASS LIGHTING IS PRESENT ON A STRUCTURE, THE CONTRACTOR SHALL ADJUST THE PROTECTIVE SHIELDING TO RIDE ABOVE THE EXISTING LIGHTING FIXTURES IN ORDER TO MAINTAIN THE EXISTING LEVEL OF LIGHTING ON THE ROADWAY UNDERNEATH. DETAILS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. A CLEARANCE OF 1 1/2 "  $\pm$  1/4 " AROUND THE FIXTURE SHALL BE PROVIDED FOR FUTURE MAINTENANCE.

ANY ADJUSTMENT DONE TO THE PROTECTIVE SHIELD SYSTEM MUST NOT CHANGE THE LOAD CARRYING CAPACITY OR CONTAINMENT SPECIFICATIONS AS INDICATED ON THE PERMANENT PROTECTIVE SHIELDING DETAILS LOCATED IN THE PLANS. COST OF ADJUSTING SHIELDING IS INCLUDED IN THE COST OF PROTECTIVE SHIELD (PERMANENT).

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATE PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM ON THE TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN GENERAL AREA OF THE FIBER OPTIC CABLE.

CONTRACTOR MUST COMPLETE WORK WITHOUT DISTURBING THE EXISTING LIGHTING AND SURVEILLANCE CONDUIT OR JUNCTION BOXES. IF INSTALLATIONS ARE DAMAGED IN THE PROCESS, CONTRACTOR SHALL REPAIR OR REPLACE EXISTING ELECTRICAL INSTALLATIONS IN COMPLIANCE WITH ELECTRICAL OR SURVEILLANCE CONSTRUCTION SPECIFICATIONS.

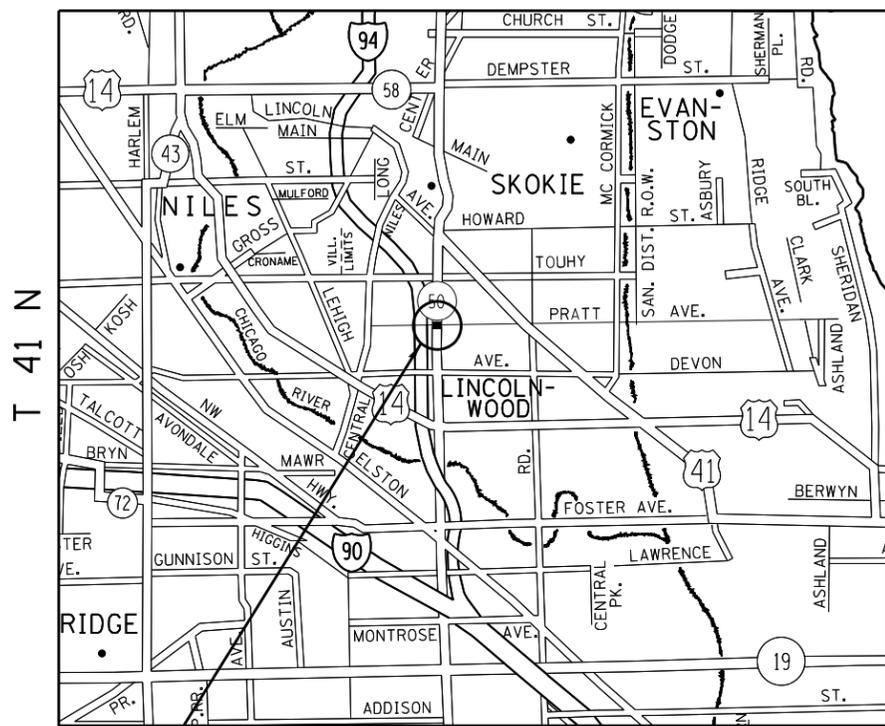
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	PLOT DATE = 9/28/2012	DATE -	REVISED -							
						SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60T69		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT										





LOCATION 1

R 13 E



T 41 N

NILES TOWNSHIP

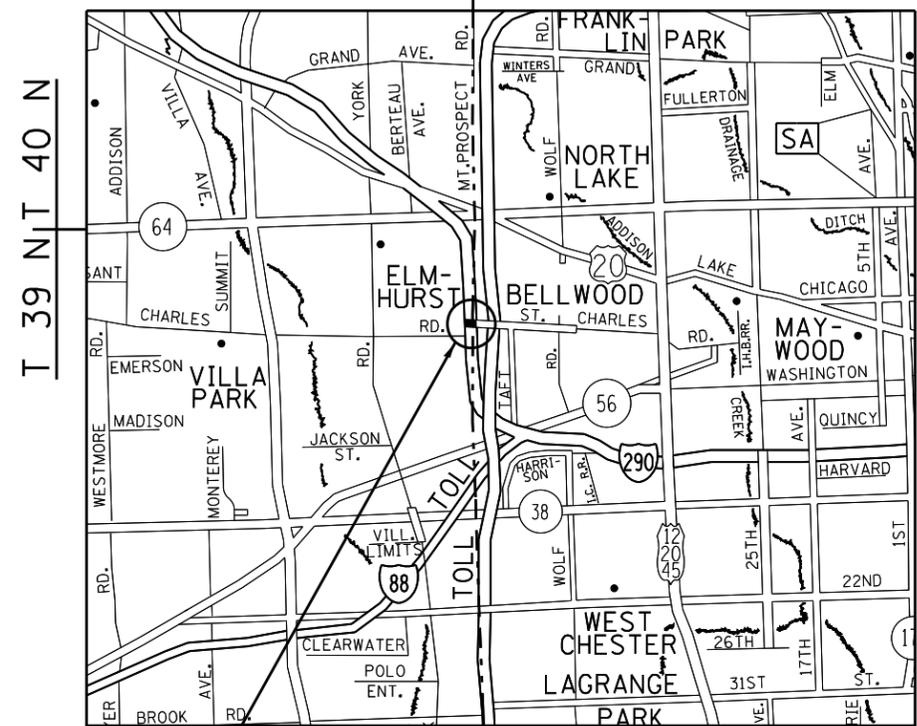
I-94 @ PRATT AVE.  
VILLAGE OF LINCOLNWOOD  
(SN 016-0831)

TRAFFIC DATA: (I-94)  
SPEED LIMIT = 55 MPH  
2010 ADT = 156,900

TRAFFIC DATA: (PRATT AVE.)  
SPEED LIMIT = 35 MPH  
2010 ADT = 8,600

LOCATION 2

R 11 E | R 12 E



T 39 N | T 40 N

PROVISO TOWNSHIP

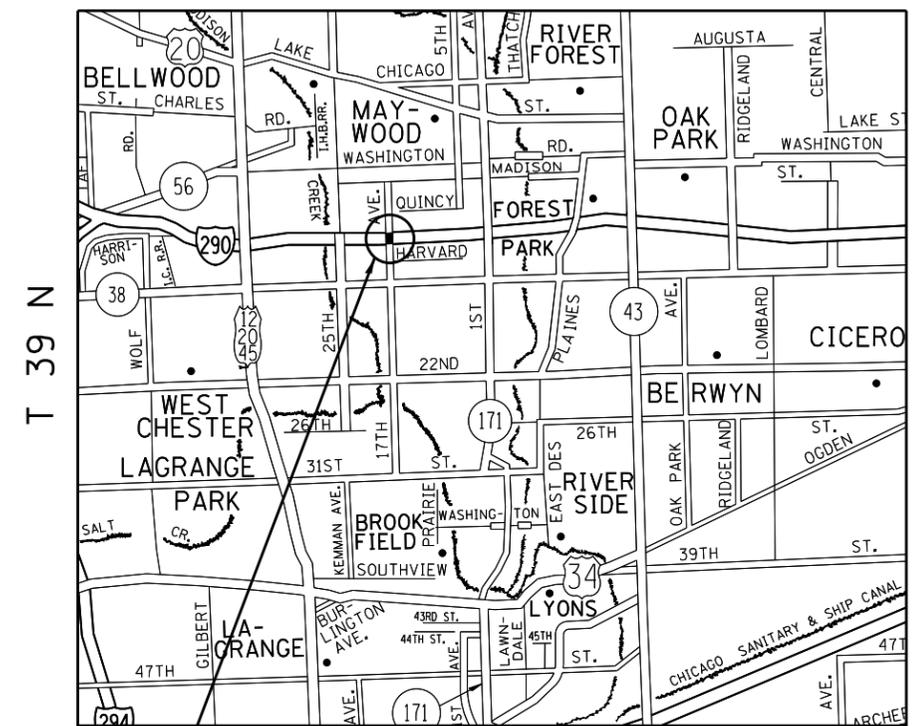
I-290 @ ST. CHARLES RD.  
VILLAGE OF BERKELEY  
(SN 016-1136)

TRAFFIC DATA: (I-290)  
SPEED LIMIT = 55 MPH  
2010 ADT = 117,000

TRAFFIC DATA: (ST. CHARLES RD.)  
SPEED LIMIT = 45 MPH  
2010 ADT = 17,400

LOCATION 3

R 12 E



T 39 N

PROVISO TOWNSHIP

I-290 @ 17TH AVE.  
VILLAGE OF BROADVIEW  
(SN 016-0694)

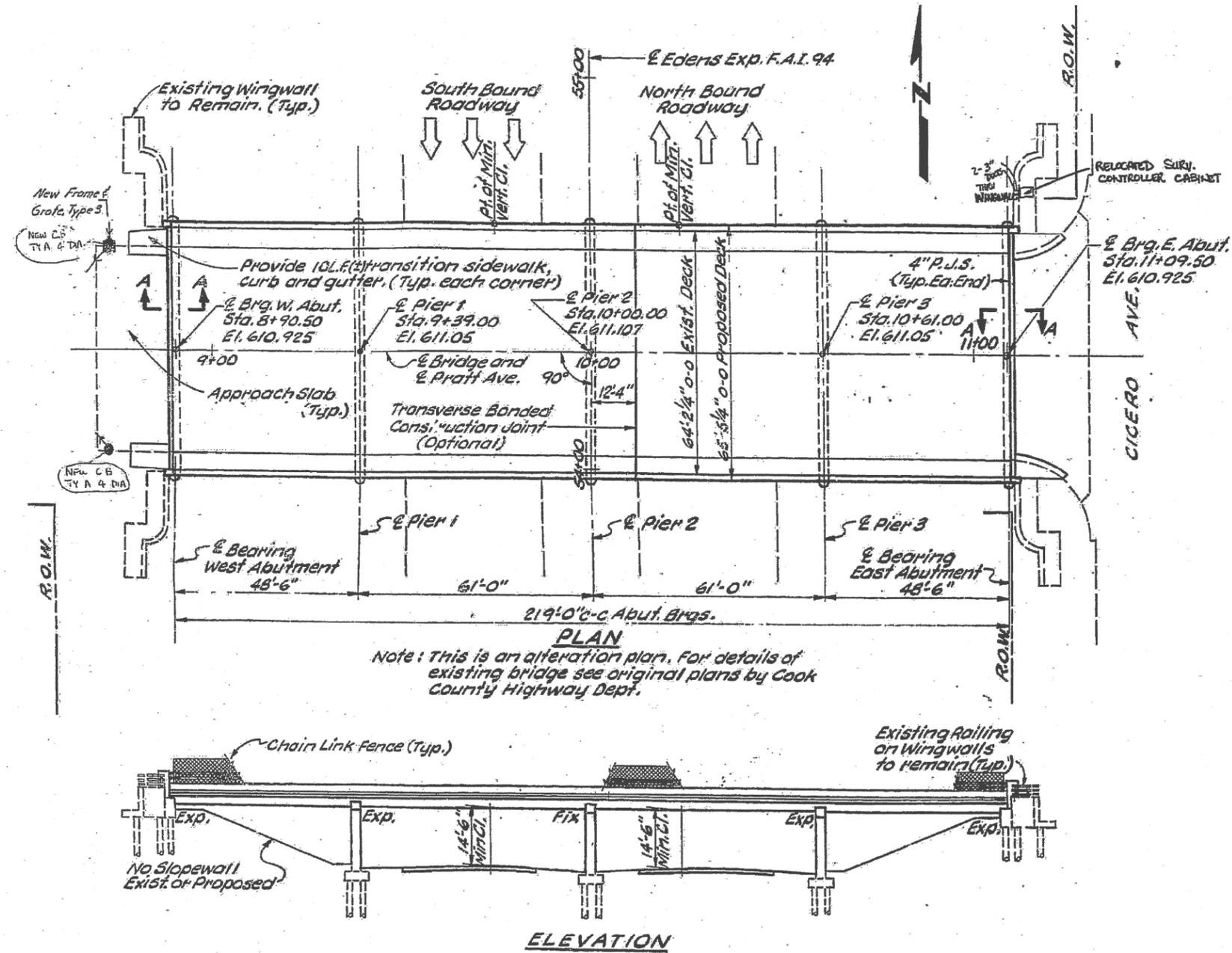
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SPEED LIMIT = 55 MPH  
2010 ADT = 167,600

TRAFFIC DATA: (17TH AVE.)  
SPEED LIMIT = 30 MPH  
2010 ADT = 10,100

FILE NAME :	USER NAME : pyrzanoskirb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION MAPS LOCATIONS 1 - 3</b>				F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 8/8/2012		DATE -	REVISED -										

# FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

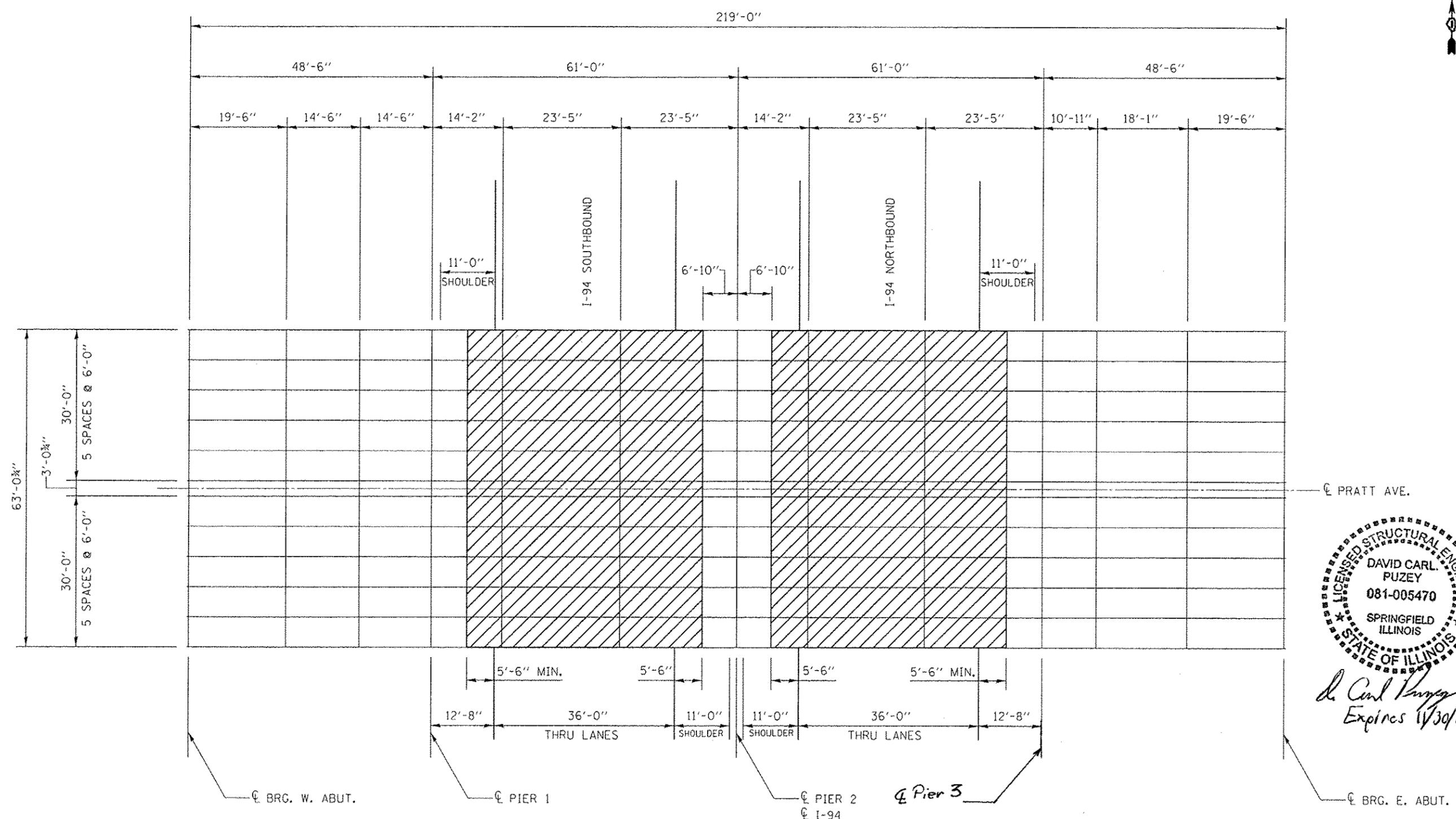


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	PLOT DATE = 8/8/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLAN I-94 AT PRATT AVE. LOCATION 1: SN 016-0831	
SCALE:	SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE. 94 & 290	SECTION 2012-0241	COUNTY COOK	TOTAL SHEETS 13	SHEET NO. 5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T69	



*David Carl Puzey 11/20/12*  
*Expires 11/30/14*

**LEGEND**

INDICATES PROTECTIVE SHIELDING (PERMANENT)

FOR PROTECTIVE SHIELDING DETAILS, SEE SHEET 11 OF 13

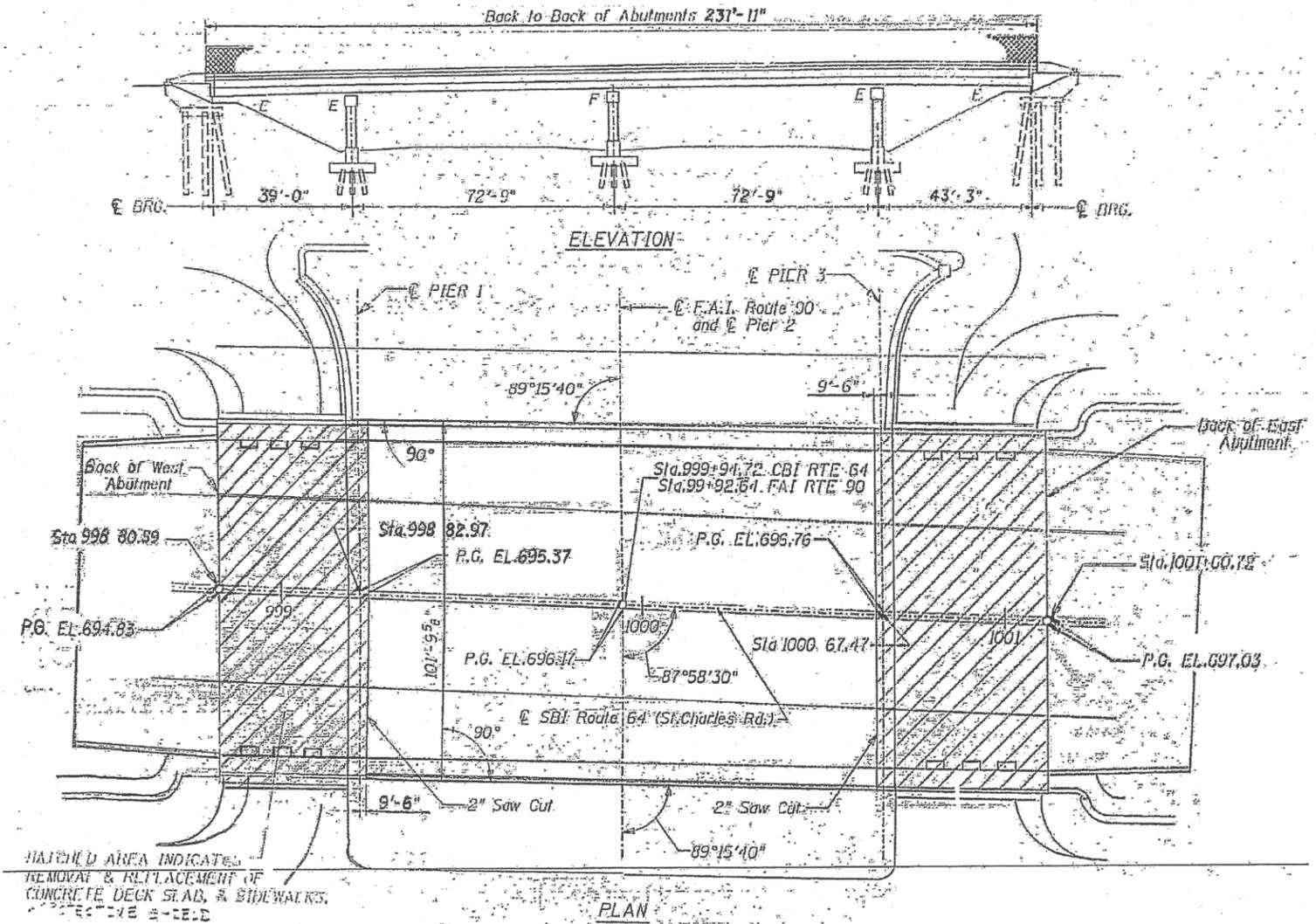
**FRAMING PLAN**

**BILL OF MATERIAL**

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	659

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PLOT DATE * 8/8/2012	DATE	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT								
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# FOR INFORMATION ONLY

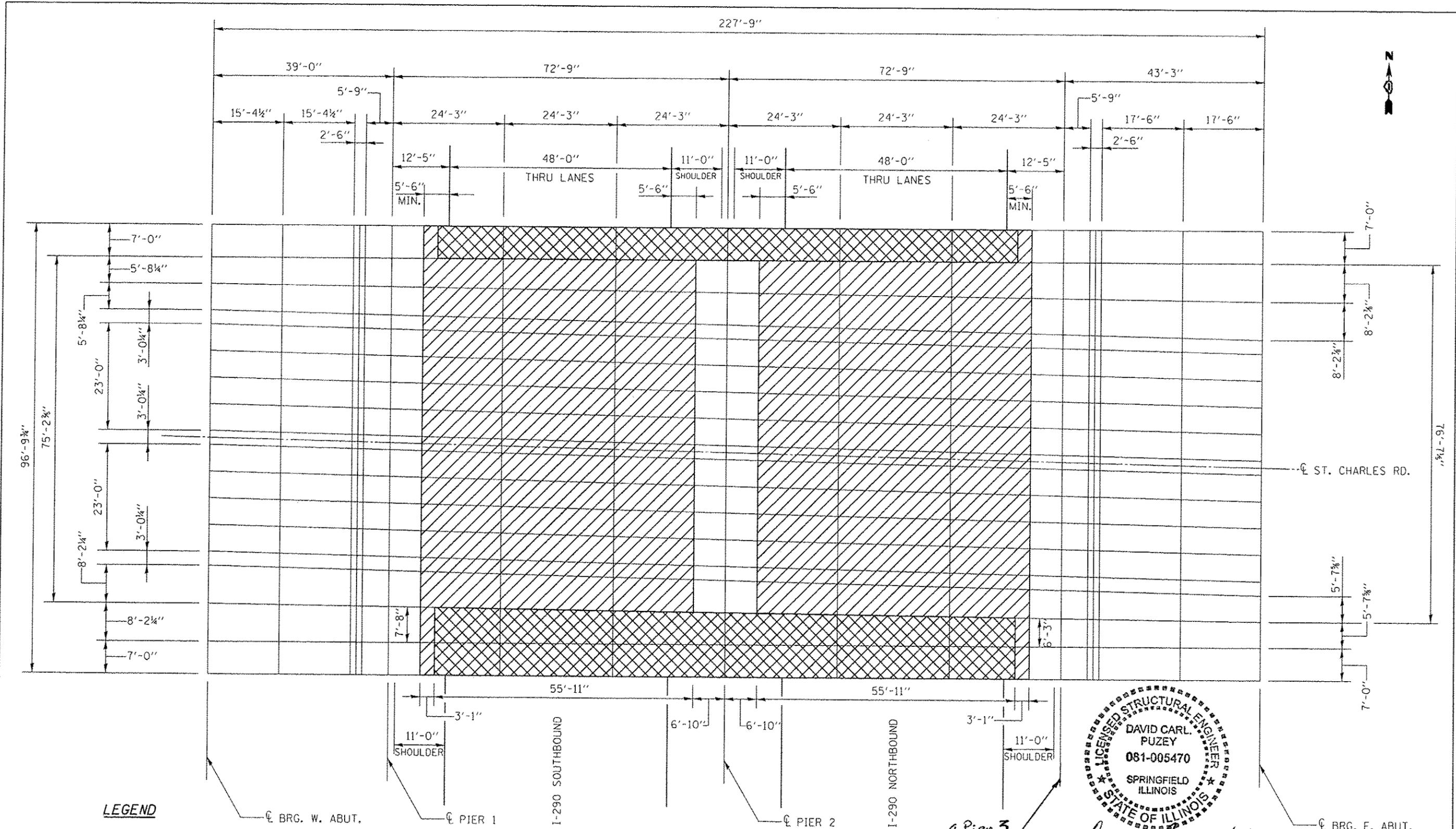


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PLOT DATE = 8/8/2012		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STRUCTURE PLAN I-290 AT ST. CHARLES RD. LOCATION 2: SN 016-1136</b>	
SCALE:	SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE. # 290	SECTION 2012-0241	COUNTY COOK	TOTAL SHEETS 13	SHEET NO. 7
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T69	



**LEGEND**

- INDICATES PROTECTIVE SHIELDING (PERMANENT)
- INDICATES EXISTING PROTECTIVE SHIELDING (TO REMAIN)

FOR PROTECTIVE SHIELDING DETAILS, SEE SHEET 11 OF 13

**FRAMING PLAN**



*David Carl Puzey* 11/20/12  
Expires 11/30/14

**BILL OF MATERIAL**

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	1005

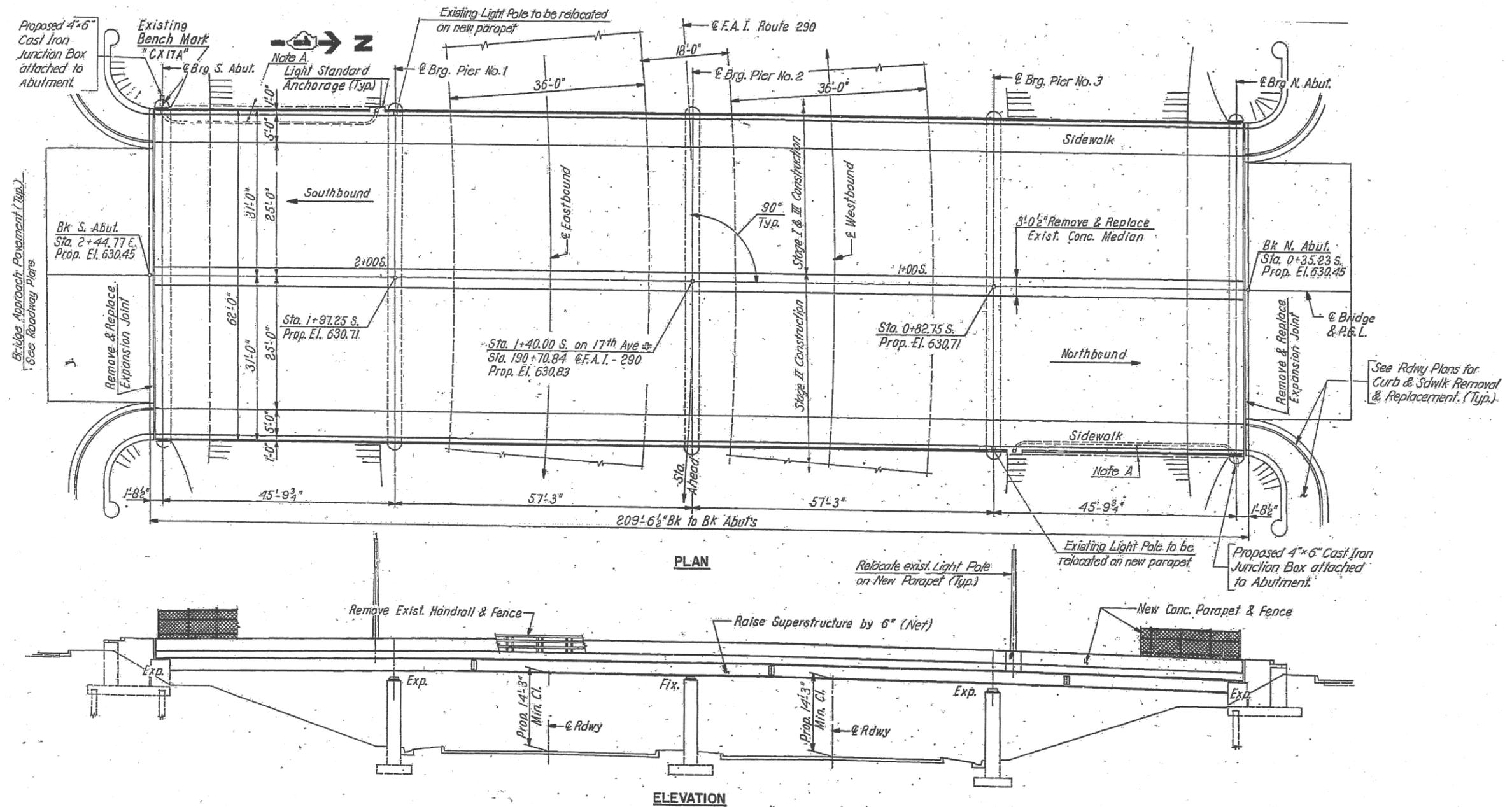
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

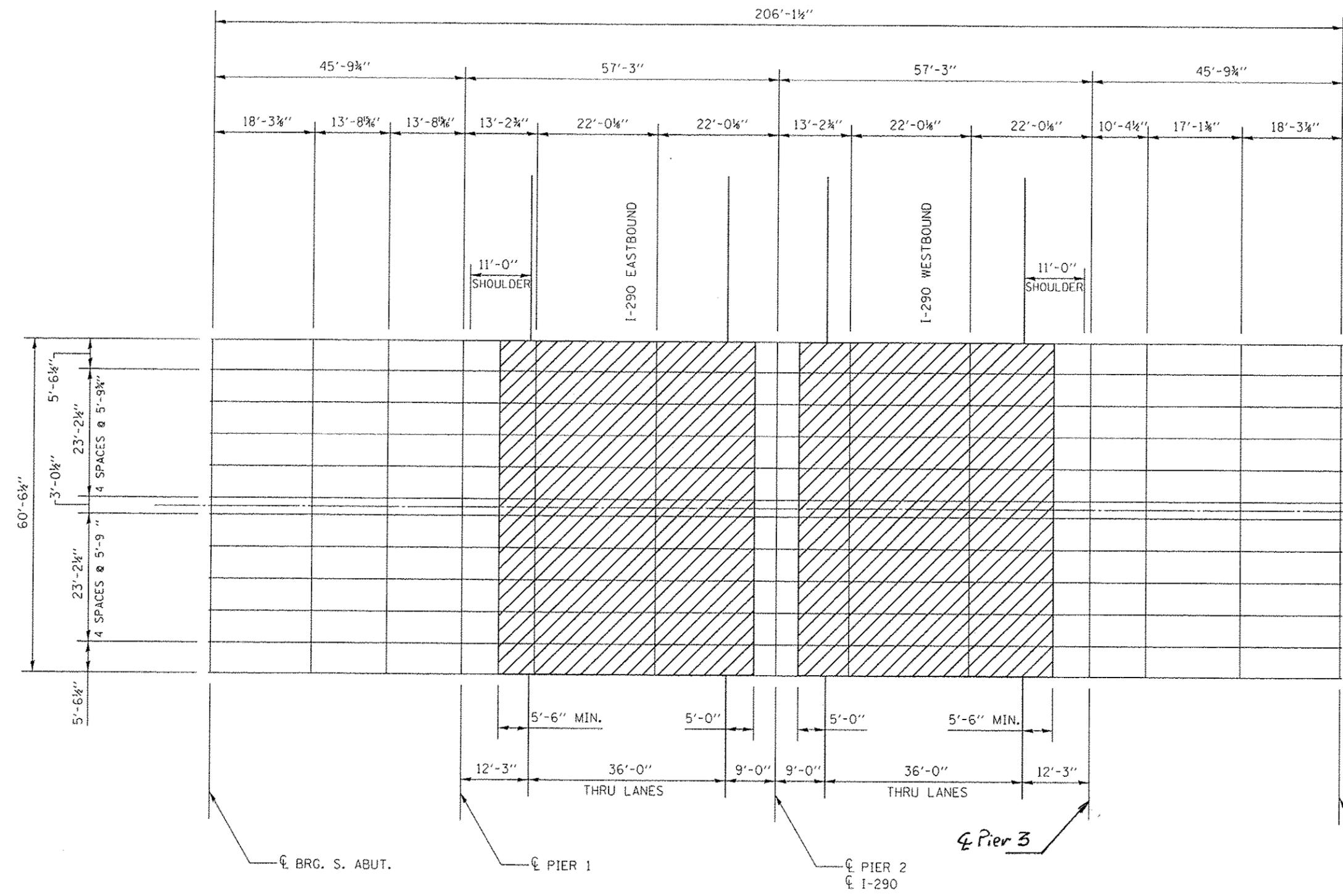
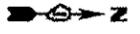
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I-290 AT ST. CHARLES RD.  
LOCATION 2: SN 016-1136

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94 & 290	2012-0241	COOK	13	8
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T69	

# FOR INFORMATION ONLY



FILE NAME :	USER NAME : pyrzanowski	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURE PLAN I-290 AT 17TH AVE. LOCATION 3: SN 016-0694</b>	F.A.I. RTE. # 290	SECTION 2012-0241	COUNTY COOK	TOTAL SHEETS 13	SHEET NO. 9	
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT											



*David Carl Fuzey* 11/20/12  
Expires 11/30/14

**LEGEND**

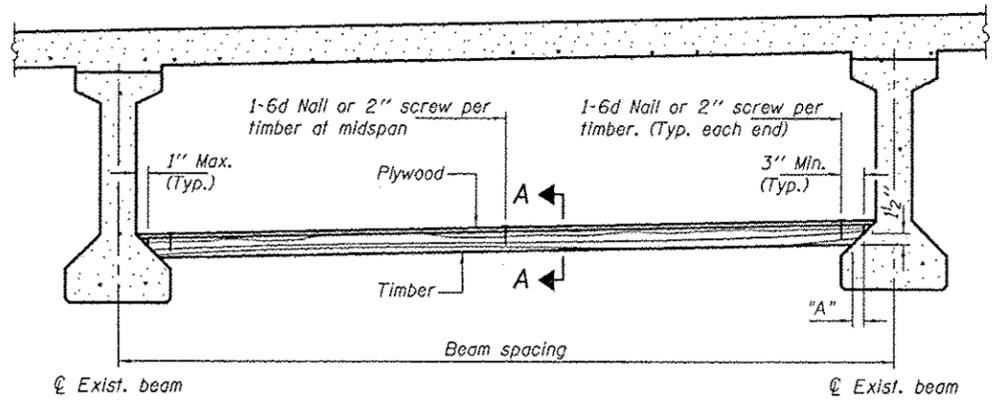
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FOR PROTECTIVE SHIELDING DETAILS, SEE SHEET 11 OF 13

**FRAMING PLAN**

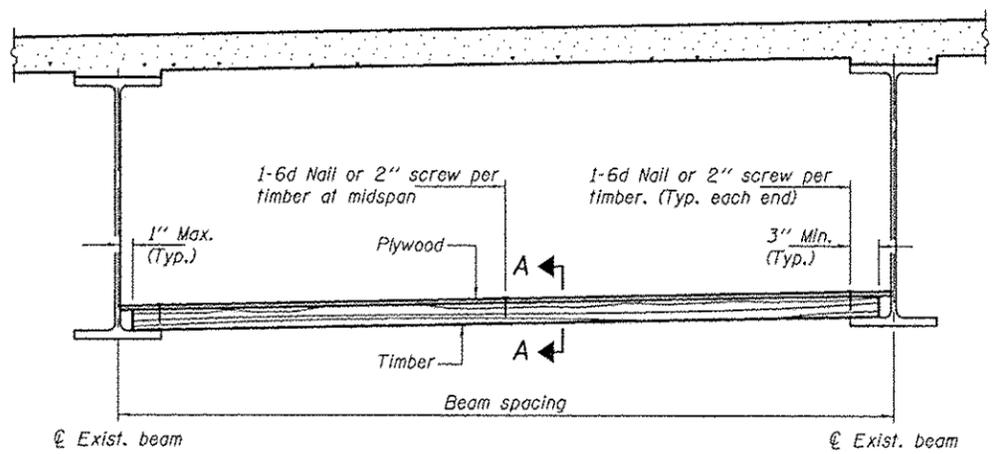
**BILL OF MATERIAL**

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	626

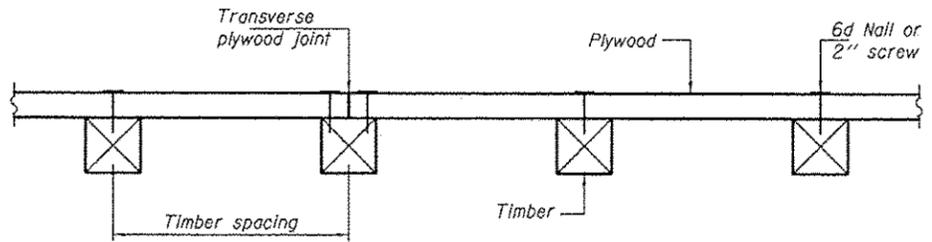
FILE NAME *	USER NAME * pyzanoskirb	DESIGNED - <i>RTB</i>	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURE PLAN I-290 AT 17TH AVE. LOCATION 3: SN 016-0694</b>	F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 8/8/2012	DATE -	REVISED -							CONTRACT NO. 60T69	



PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A

**TIMBER SPACING**

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

PPC I-BEAMS AND BULB-T's

BEAM	"A"
36" I-Beam	1 1/2"
42" I-Beam	1 1/2"
48" I-Beam	1 1/2"
54" I-Beam	1 5/8"
63" Bulb-T	3 3/8"
72" Bulb-T	3 3/8"

Notes: See special provision for Permanent Protective Shield System.  
 Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.  
 The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.  
 The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.  
 All timber shall be treated.  
 Plywood shall be 5/8" rated Exterior type plywood by APA.  
 Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.  
 Transverse plywood joints shall be supported by timbers.  
 When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.  
 Design load = 200 psf.

**BILL OF MATERIAL**

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	2290

PPS-1

01-22-09

FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

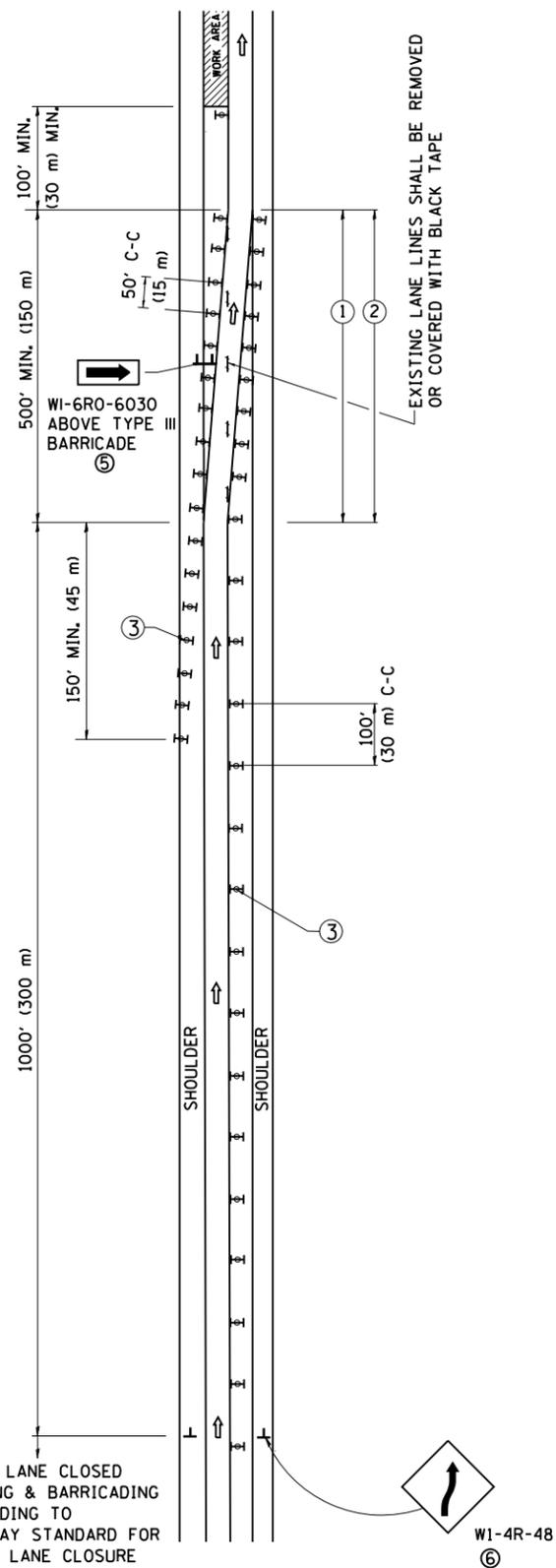
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PERMANENT PROTECTIVE SHIELD

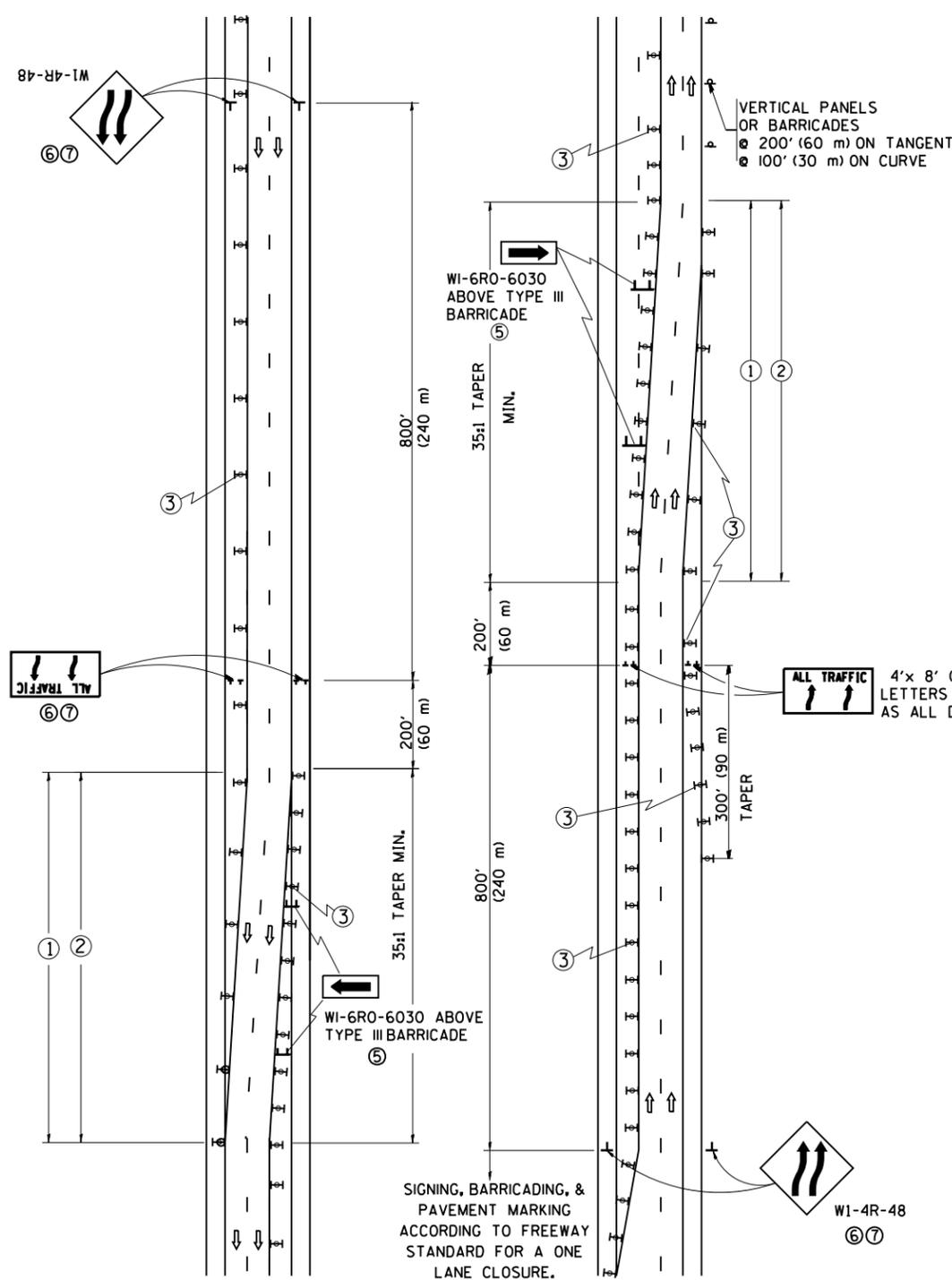
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 94 & 290	SECTION 2012-0241	COUNTY COOK	TOTAL SHEETS 13	SHEET NO. 11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T69	

# SINGLE LANE WEAVE



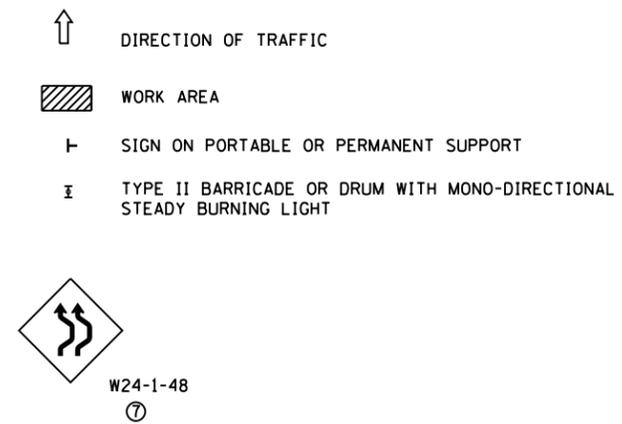
# MULTI-LANE WEAVE



### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) 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. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. WI-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

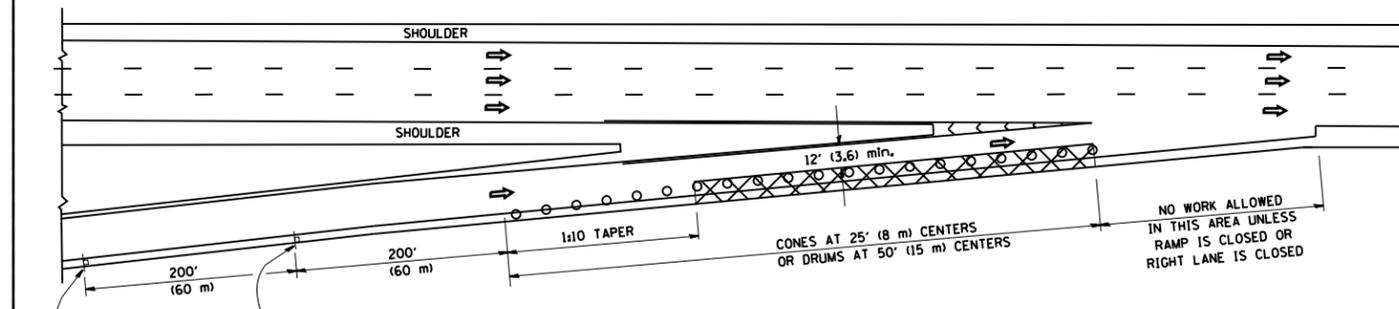


ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

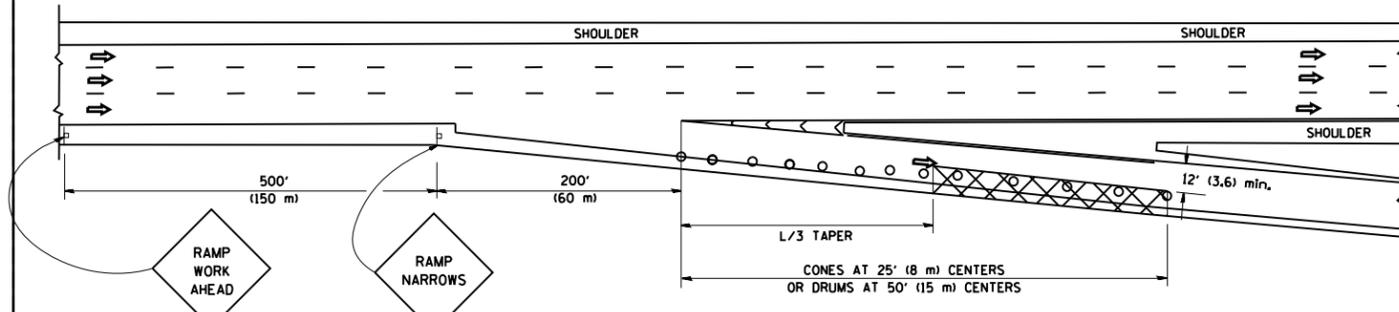
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	PLOT DATE = 8/8/2012	CHECKED -	REVISED - SPB 01-07									
		DATE - 02-87	REVISED - SPB 12-09									

**PARTIAL RAMP CLOSURE DETAILS**

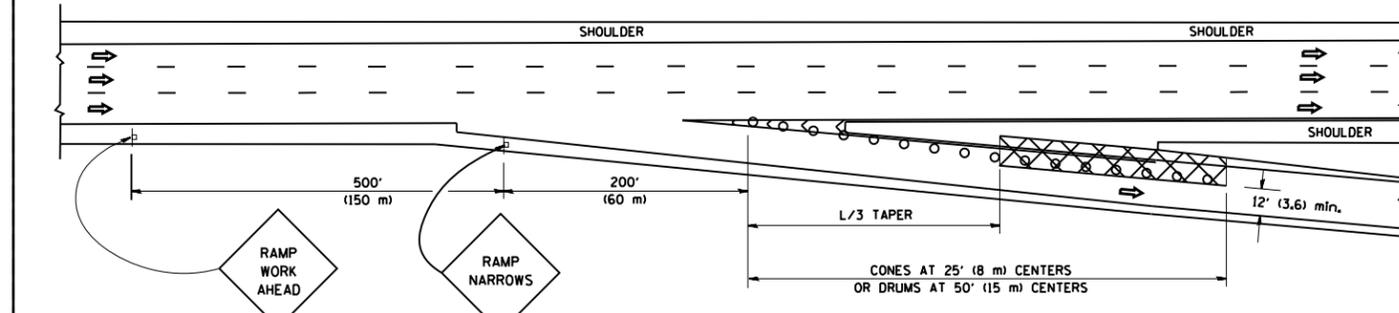
**SHOULDER CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

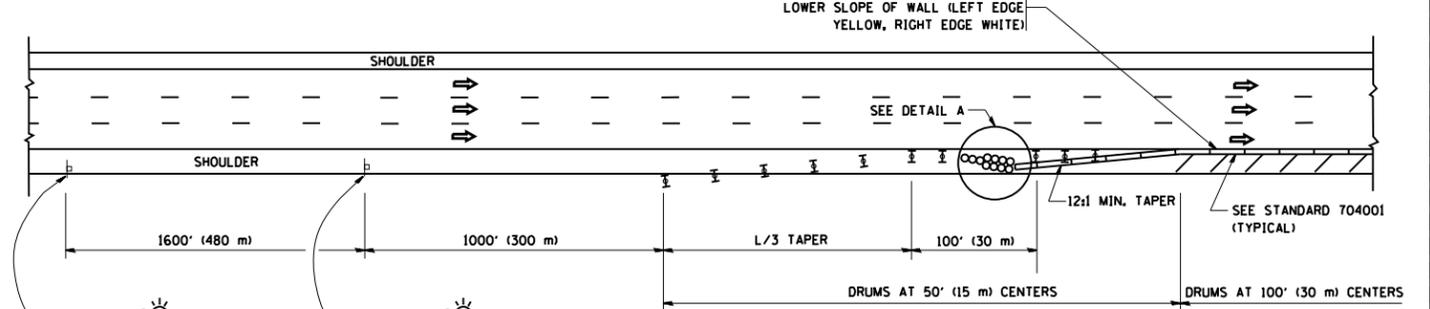
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

**GENERAL NOTES**

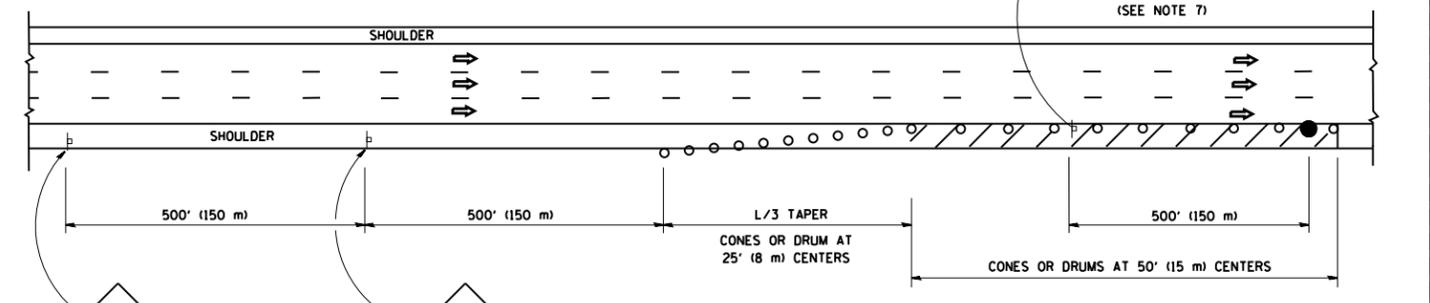
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH
	$L=0.65(WXS)$ $L=(WXS)$

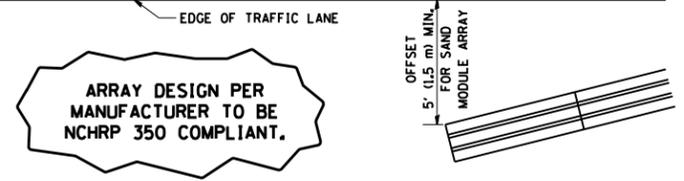
W = WIDTH OF OFFSET IN FEET (METERS)  
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**



**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.
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 ACTIVITY REQUIRES FREQUENT ENCRANCHMENT INTO THE LANE OPEN TO TRAFFIC.

THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

FILE NAME =	USER NAME = pyzranowski	DESIGNED -	REVISED - 04-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>			F.A.I. RTE. # 290	SECTION 2012-0241	COUNTY COOK	TOTAL SHEETS 13	SHEET NO. 13
et:\pw_work\p\dot\pyzranowski\0310238\0141812-sht-plan.dgn	PLOT SCALE = 100.0000' / 1"	DRAWN - D.W.S.	REVISED - J.A.F. 12-06		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-17		CONTRACT NO. 60T69		
	PLOT DATE = 8/8/2012	CHECKED -	REVISED - S.P.B. 01-07									
					DATE - 11-96							