11-06-2015 LETTING ITEM 092

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED

HIGHWAY PLANS

VARIOUS LOCATIONS SECTION 2015-0581 PERMANENT PROTECTIVE SHIELDING **VARIOUS COUNTIES**

VARIOUS ROUTES

C-91-401-15

LOC 1) PAULINA AVE. OVER I-290 SN 016-0098

LOC 2) 5TH AVE. OVER I-290 SN 016-0692

LOC 3) 159TH ST. OVER I-57 SN 016-1013

LOC 4) STEGER RD. OVER I-57 SN 016-1108

LOC 5) YORK RD. OVER IL 38 SN 022-0067

LOC 6) IL 120 OVER US 41 SN 049-0050

FOR LOCATION MAPS SEE SHEETS 4 & 5

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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IMPROVEMENTS ARE LOCATED IN THE CITY OF CHICAGO

AND VILLAGES OF MARKHAM, MAYWOOD, PARK CITY, UNIVERSITY PARK AND YORKFIELD

CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

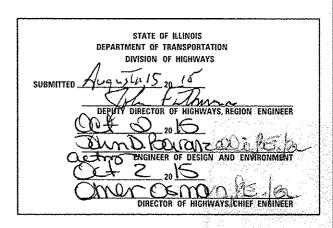
PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056 PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62B23

2015-0581 VARIOUS ZI I

D-91-401-15





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- 21. TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURE AND PARTIAL RAMP CLOSURES (TC-17)

STATE STANDARDS

701101-04	OFF-RD	OPERATIONS, MULTILANE, 15' (4.5 m)	
	TO 24"	(600 mm) FROM PAVEMENT EDGE	

- 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-09 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS \geq 45 MPH
- 701421-07 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS > 45 MPH TO 55 MPH
- 701428- TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAYS
- 701446-06 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901-04 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 FOR EXPRESSWAY AND (847) 705-4470 FOR ARTERIALS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BUREAU OF MAINTENANCE 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 DAMAGES CAUSED BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.

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 $1\frac{1}{2}$ " 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.

CONTRACTOR MUST COMPLETE WORK WITHOUT DISTURBING ANY 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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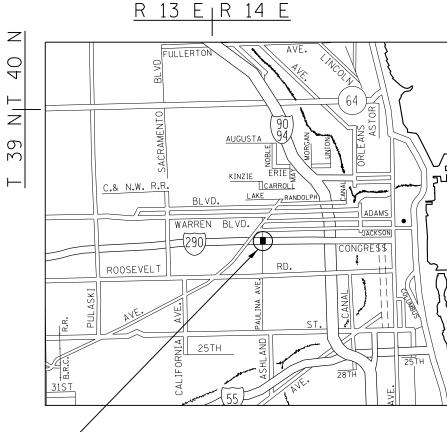
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LOCATION 1

LOCATION 2

LOCATION 3



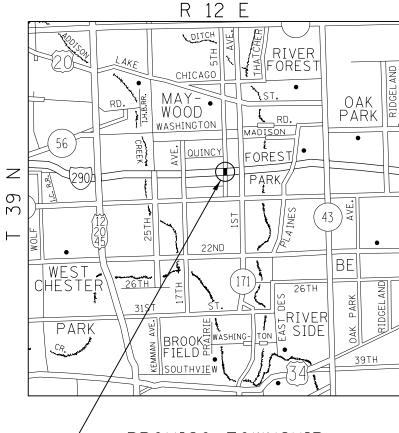


WEST CHICAGO TOWNSHIP

- PAULINA AVE. OVER I-290 CITY OF CHICAGO (SN 016-0098)

TRAFFIC DATA: (I-290)
SPEED LIMIT = 55 MPH
2014 ADT = 181,900

TRAFFIC DATA: (PAULINA AVE.)
SPEED LIMIT = 30 MPH
2014 ADT = 3,450



PROVISO TOWNSHIP

-5TH AVE. OVER I-290 VILLAGE OF MAYWOOD (SN 016-0692)

TRAFFIC DATA: (I-290)

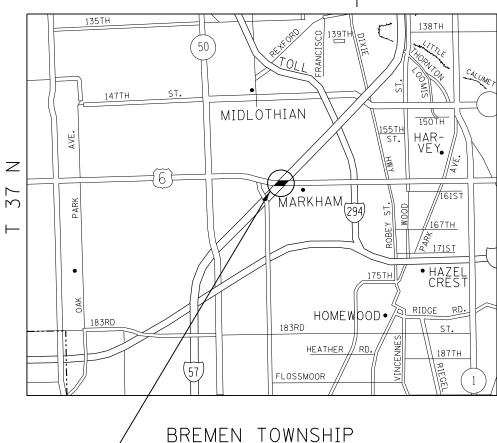
SPEED LIMIT = 55 MPH

2014 ADT = 185,700

TRAFFIC DATA: (5TH AVE.)

SPEED LIMIT = 25 MPH

2014 ADT = 8,550



- 159TH ST OVER I-57 VILLAGE OF MARKHAM (SN 016-1013)

TRAFFIC DATA: (I-57)

SPEED LIMIT = 55 MPH

2014 ADT = 84,400

TRAFFIC DATA: (159TH ST.)

SPEED LIMIT = 45 MPH

2013 ADT = 26,900

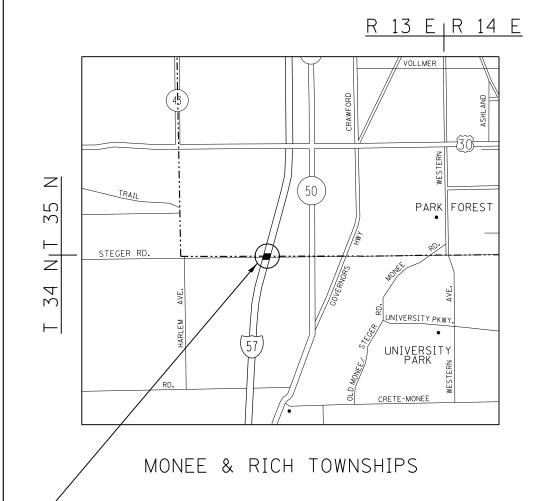
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LOCATION 4

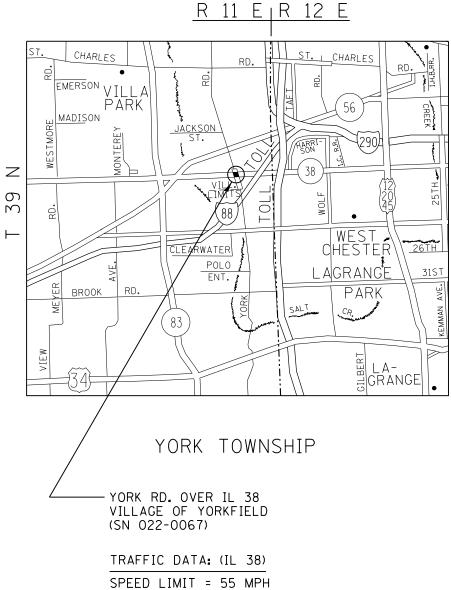
LOCATION 5

LOCATION 6



TRAFFIC DATA: (I-57)
SPEED LIMIT = 70 MPH
2013 ADT = 44,300

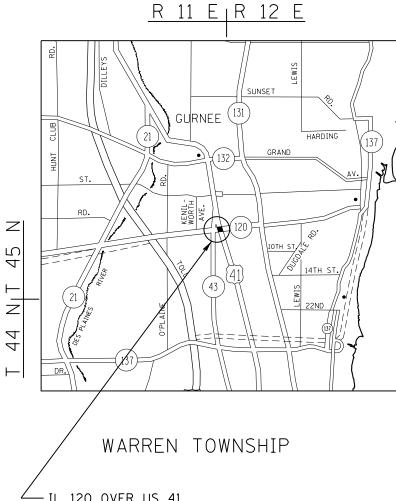
TRAFFIC DATA: (STEGER RD.)
SPEED LIMIT = 45 MPH
2014 ADT = 3,950



SPEED LIMIT = 55 MPH 2013 ADT = 54,700

TRAFFIC DATA: (YORK RD.)

SPEED LIMIT = 45 MPH 2008 ADT = 19,500



- IL 120 OVER US 41 VILLAGE OF PARK CITY (SN 049-0050)

TRAFFIC DATA: (US 41)

SPEED LIMIT = 55 MPH

2013 ADT = 32,100

TRAFFIC DATA: (IL-120)

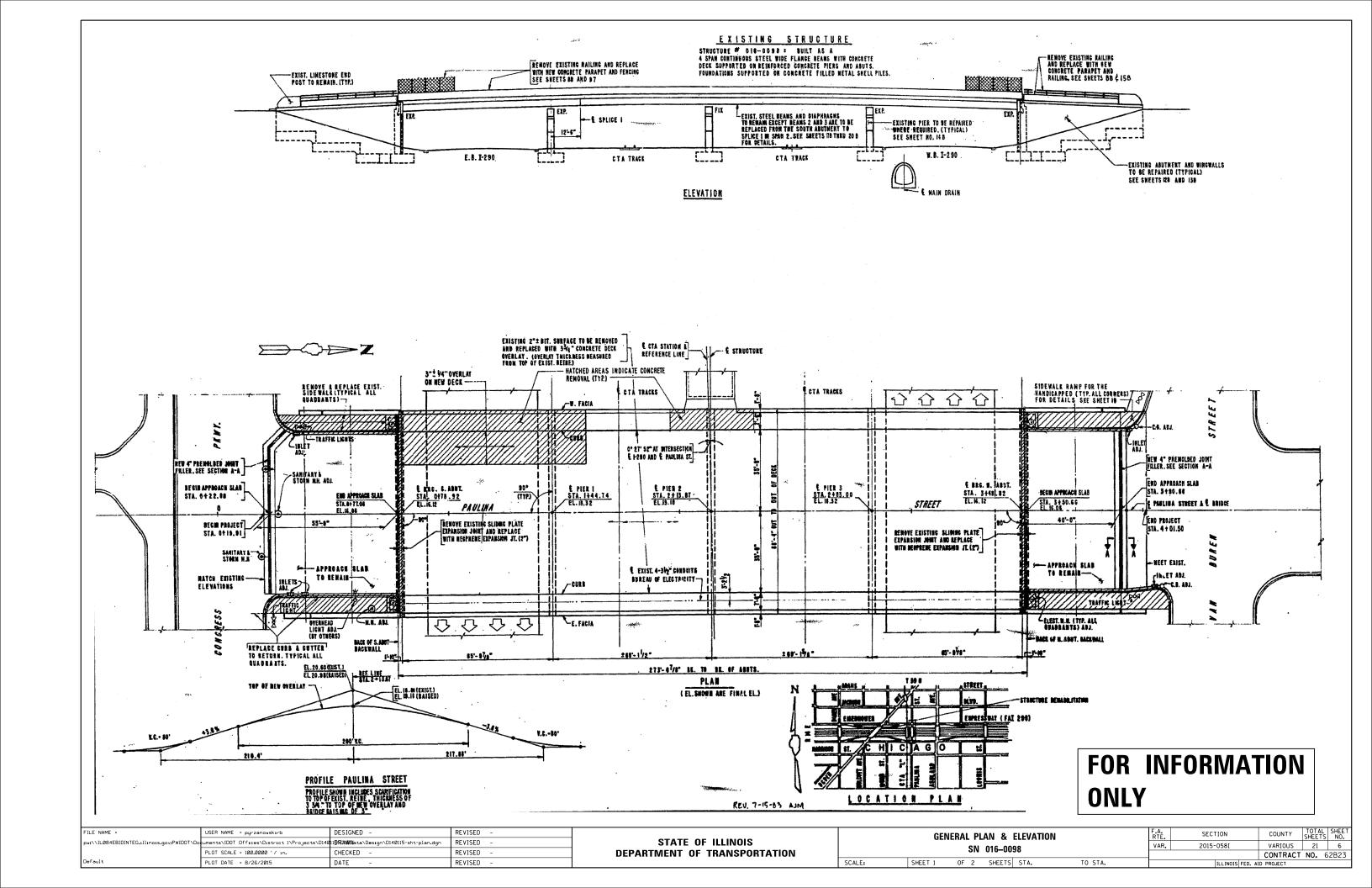
SPEED LIMIT = 45 MPH

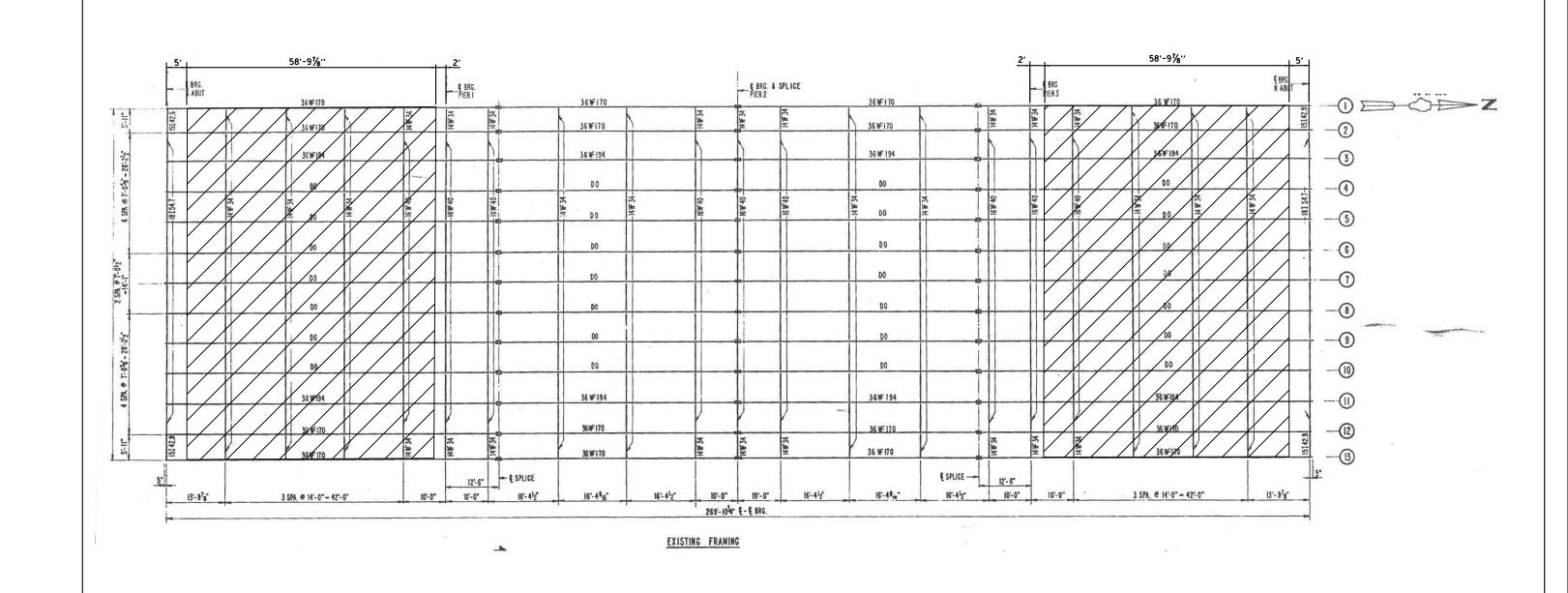
2013 ADT = 29,800

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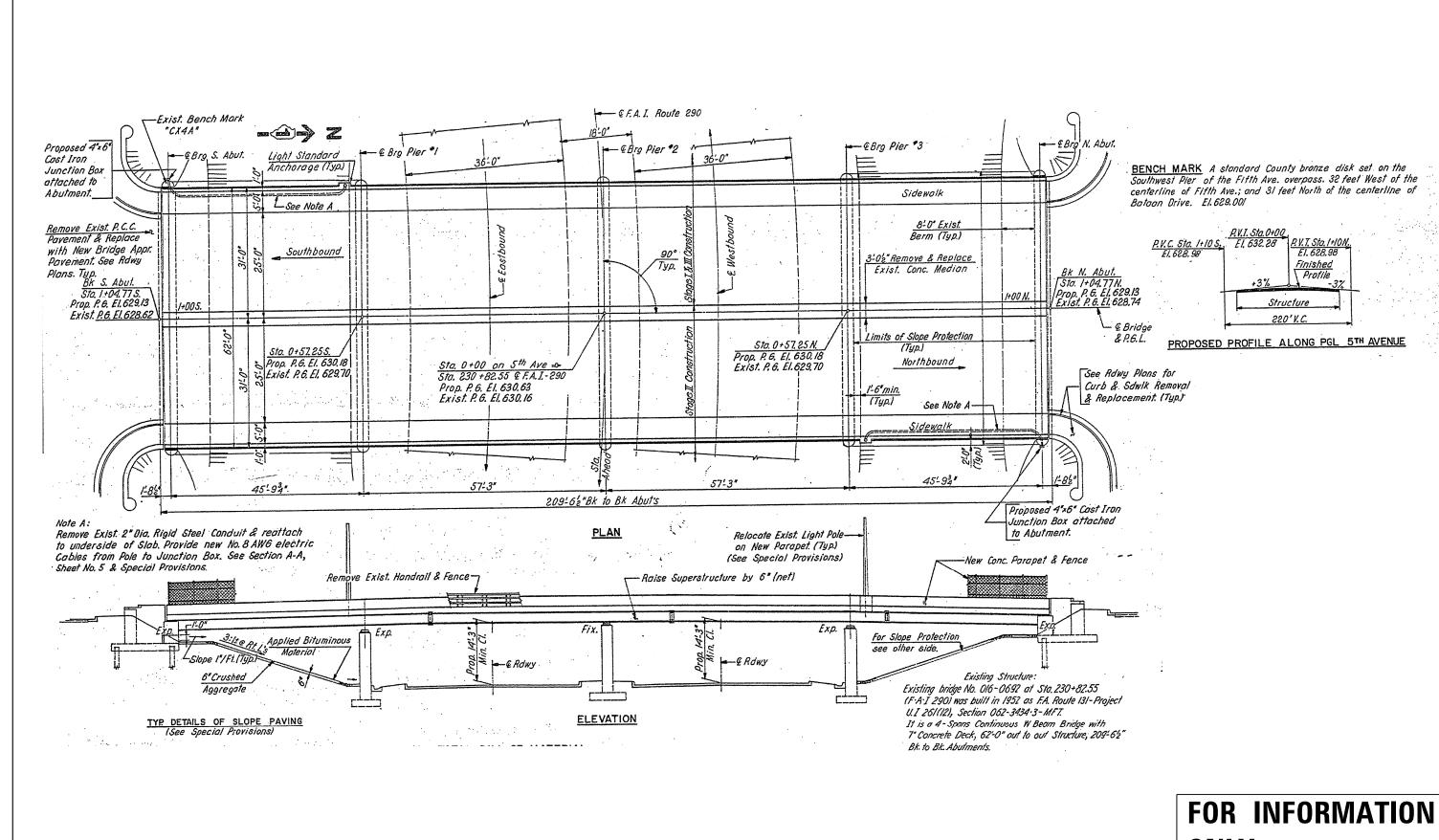
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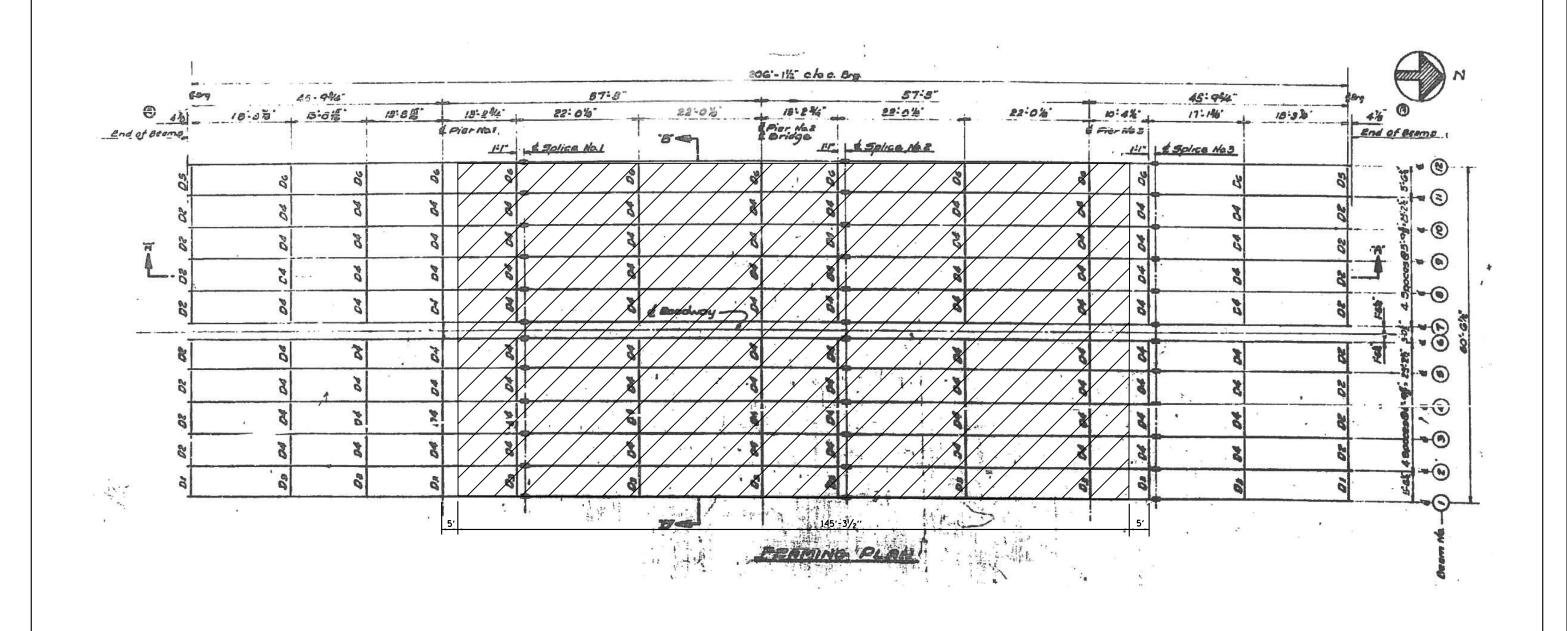


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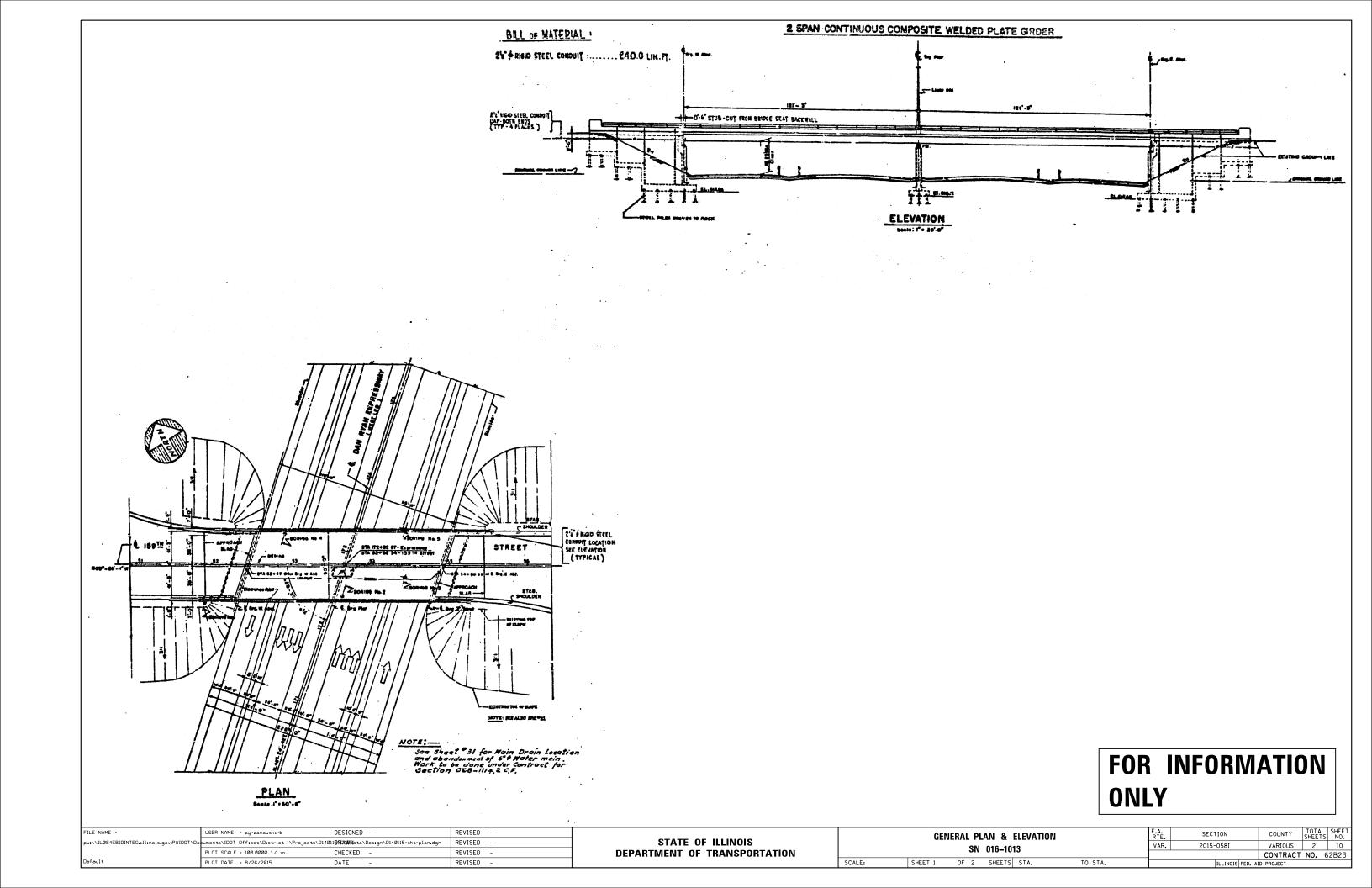
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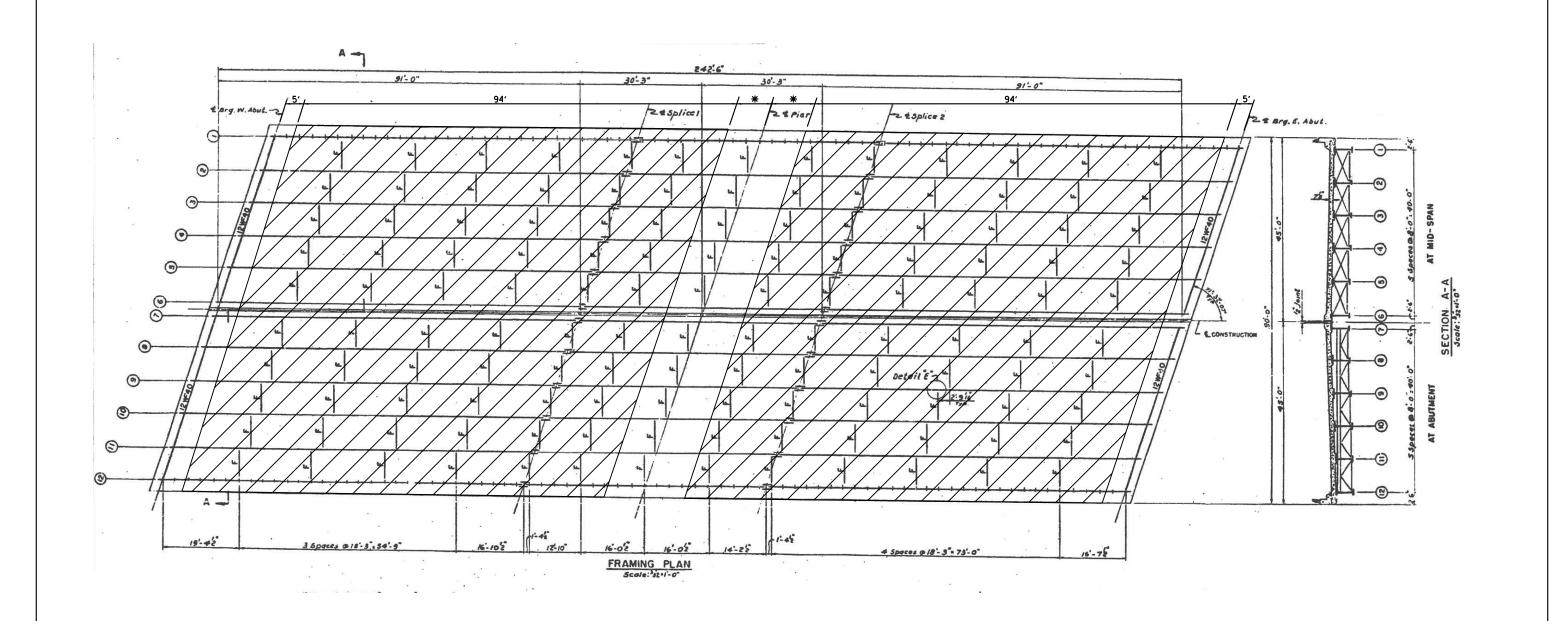
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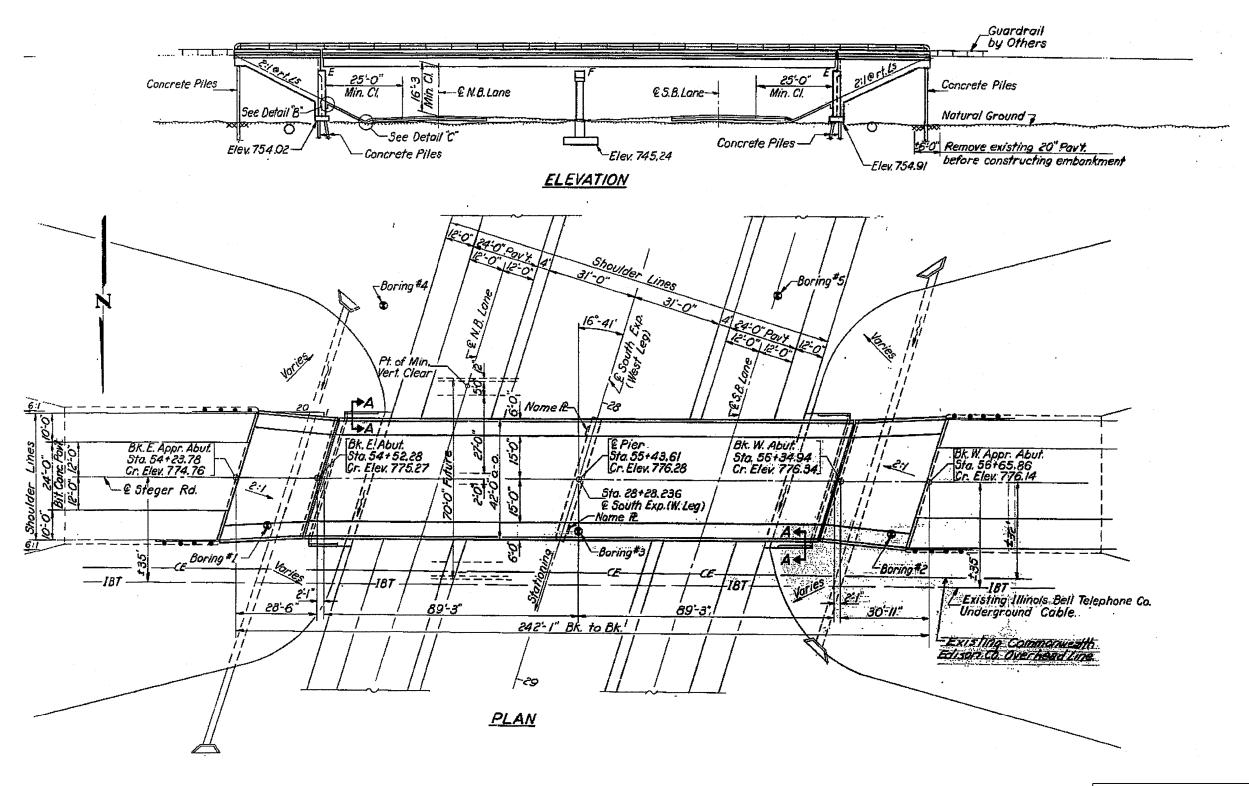


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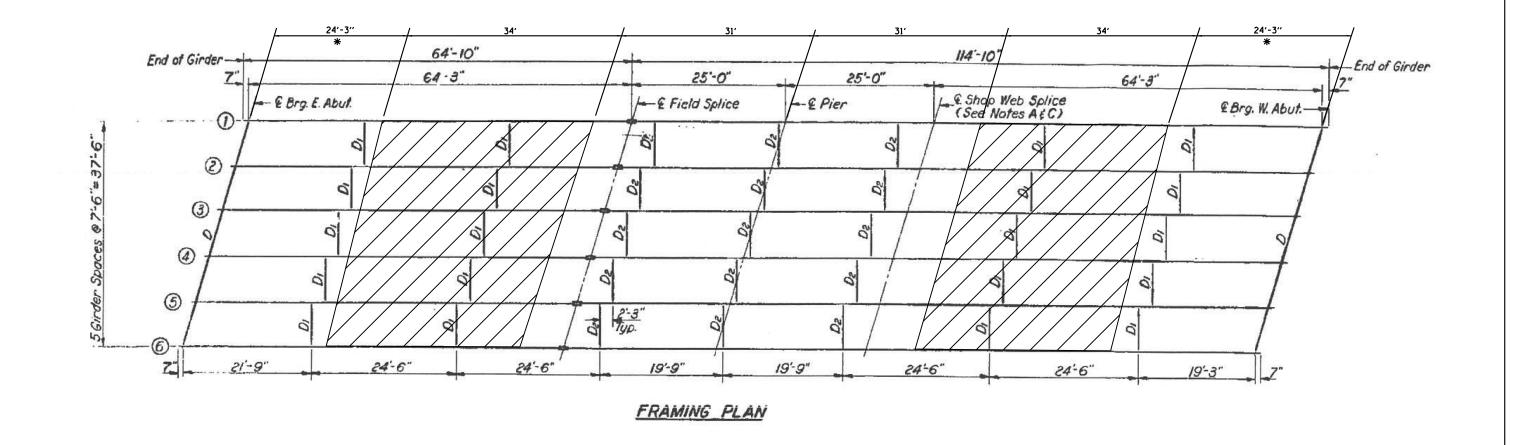
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STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS



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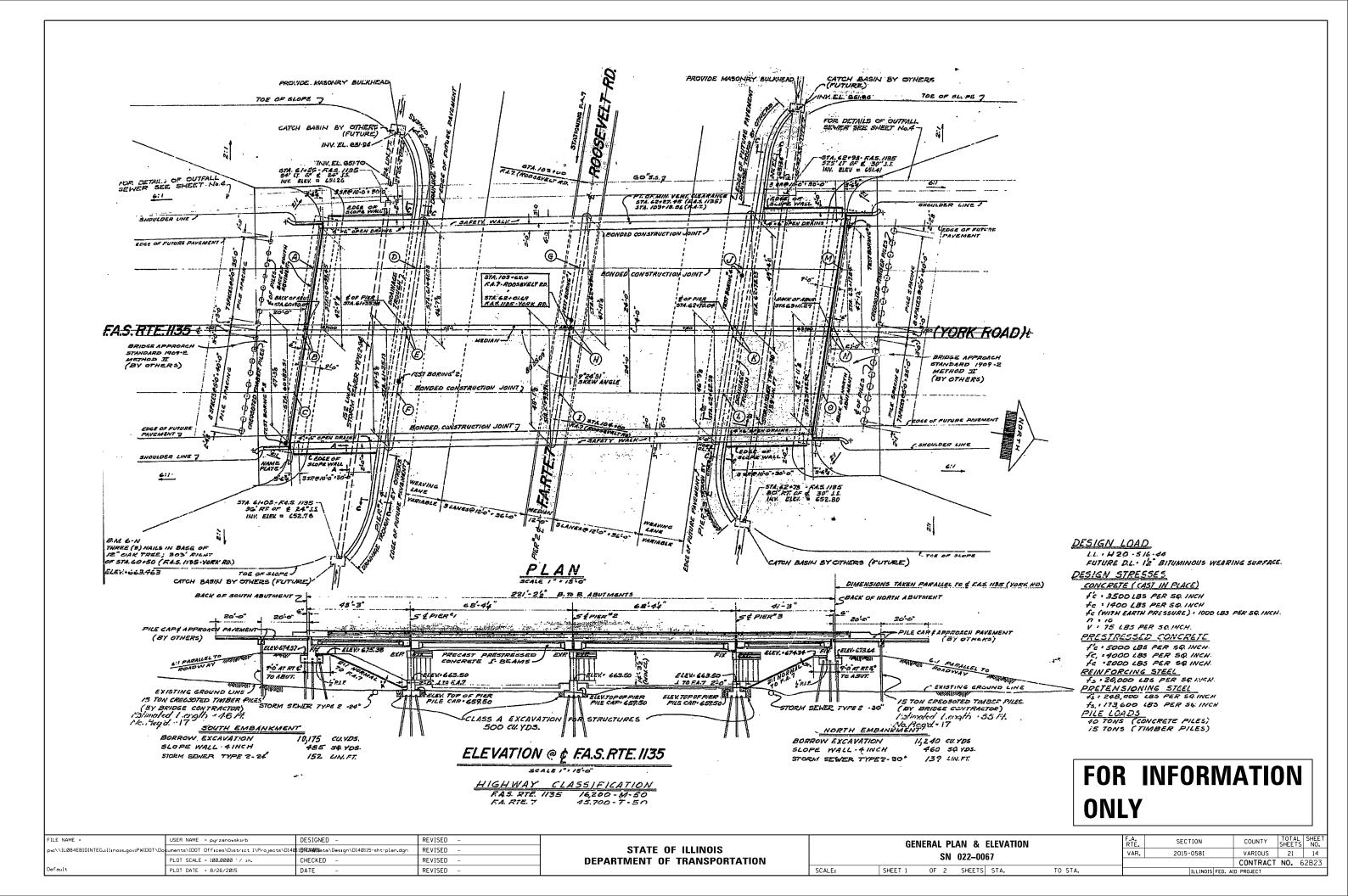
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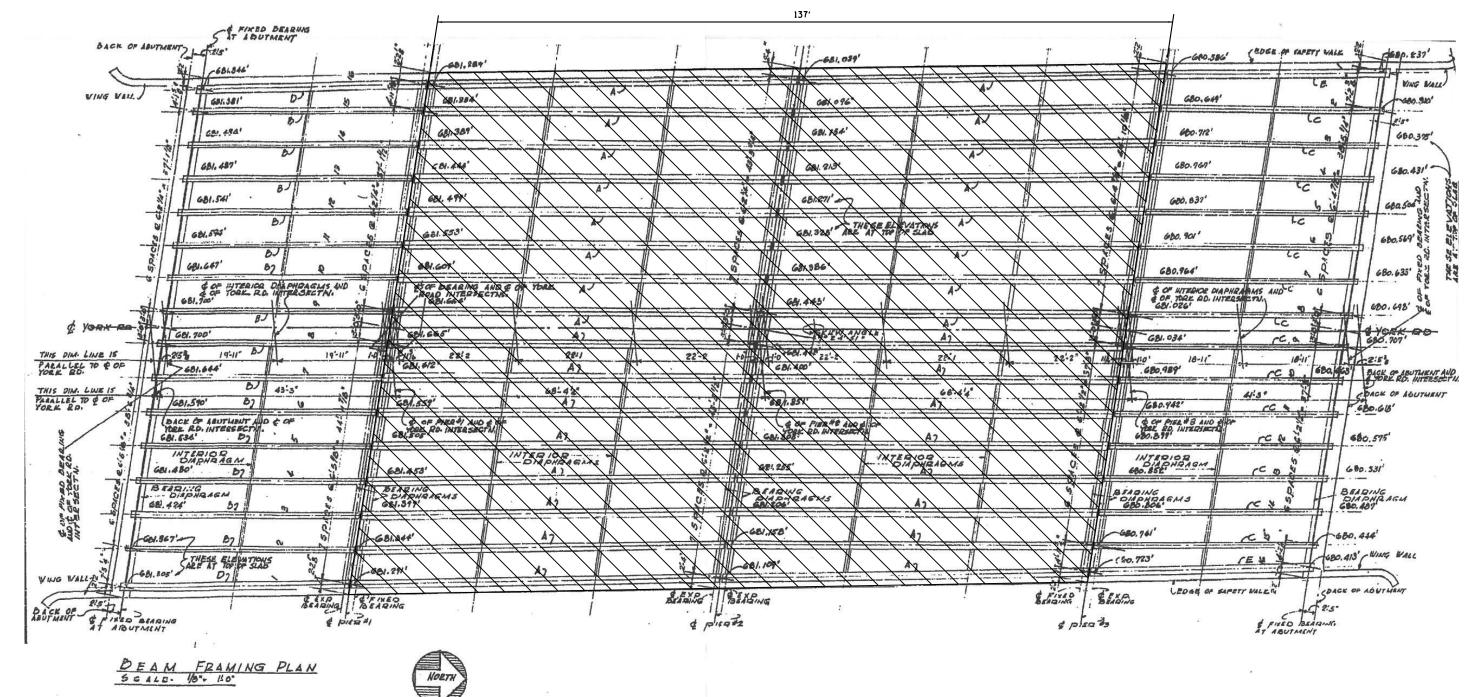


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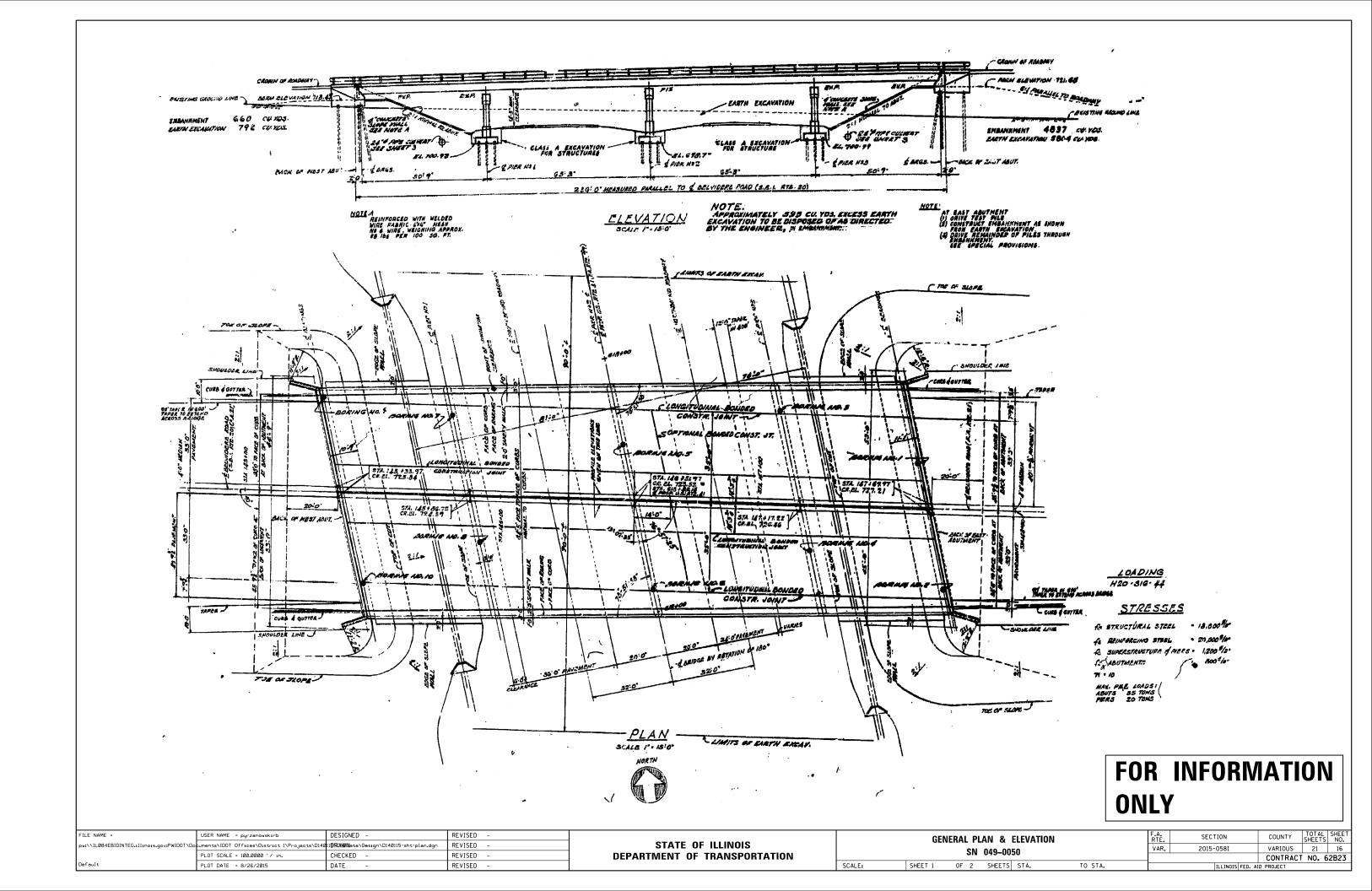


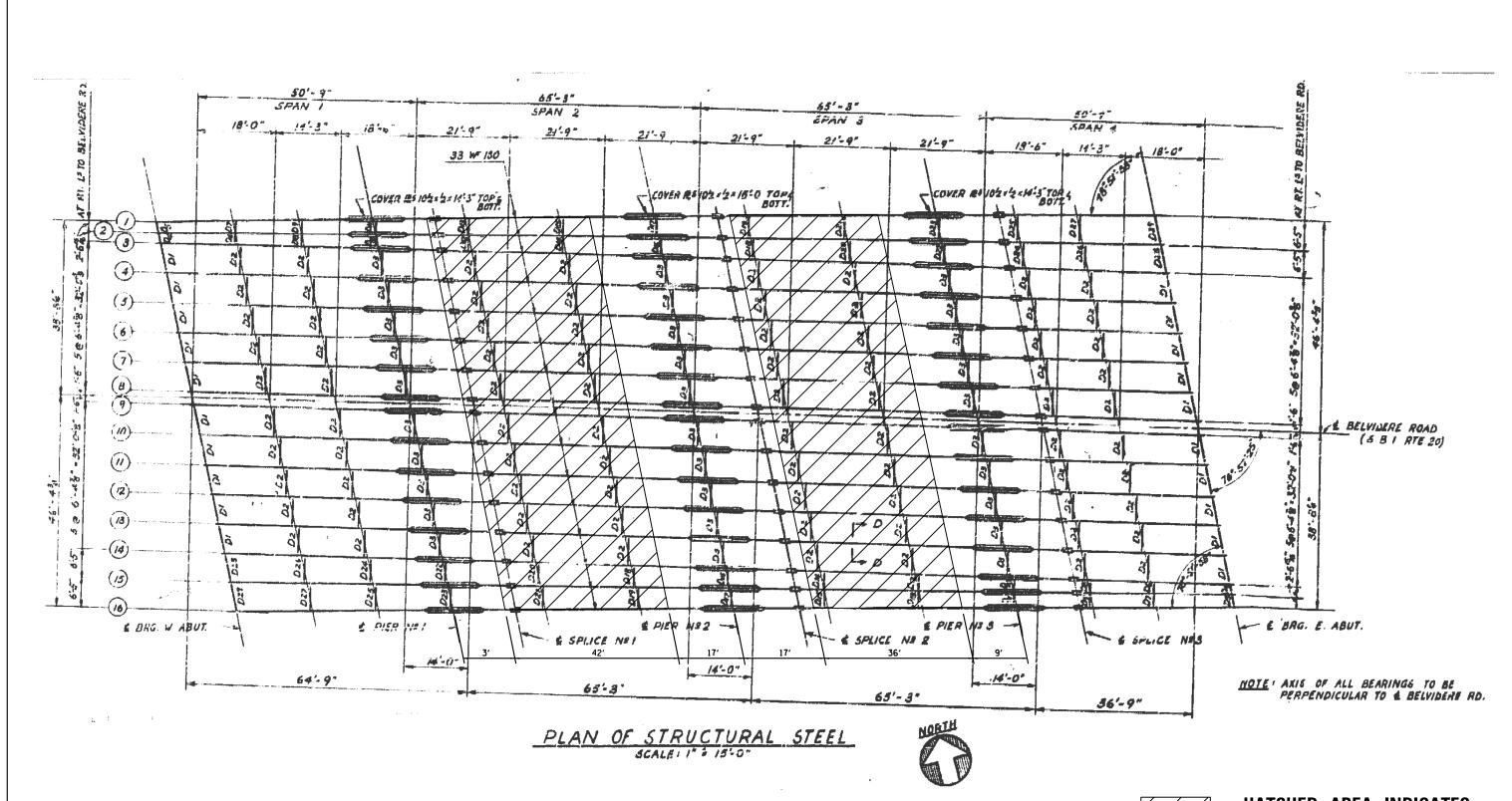


HATCHED AREA INDICATES **DEBRIS REMOVAL**

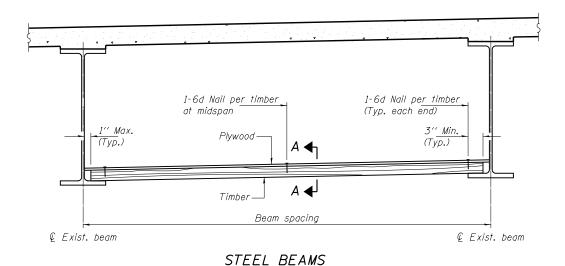
REMOVAL OF PROTECTIVE SHIELD INCLUDED IN THE COST OF "DEBRIS REMOVAL"

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Transverse plywood joint Plywood 6d Nail. (Typ.) Timber spacing

SECTION A-A

TIMBER SPACING

	Timber Sizes (in.)						
Beam Spacing (ft.)	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				
	Maximui	m Timber Spac	ing (in.)				
4.5	16	16	16				
4.75	16	16	16				
5.0	16	16	16				
5 . 25	16	16	<i>1</i> 6				
5 . 5	16	<i>1</i> 6	<i>1</i> 6				
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	<i>1</i> 6	<i>1</i> 6				
7.25	8	16	16				
7.5	8	<i>1</i> 6	<i>1</i> 6				
7.75	8	16	<i>1</i> 6				
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				

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	4438

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 "Exterior type plywood.

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 $4^{\prime\prime}$ x $6^{\prime\prime}$ timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

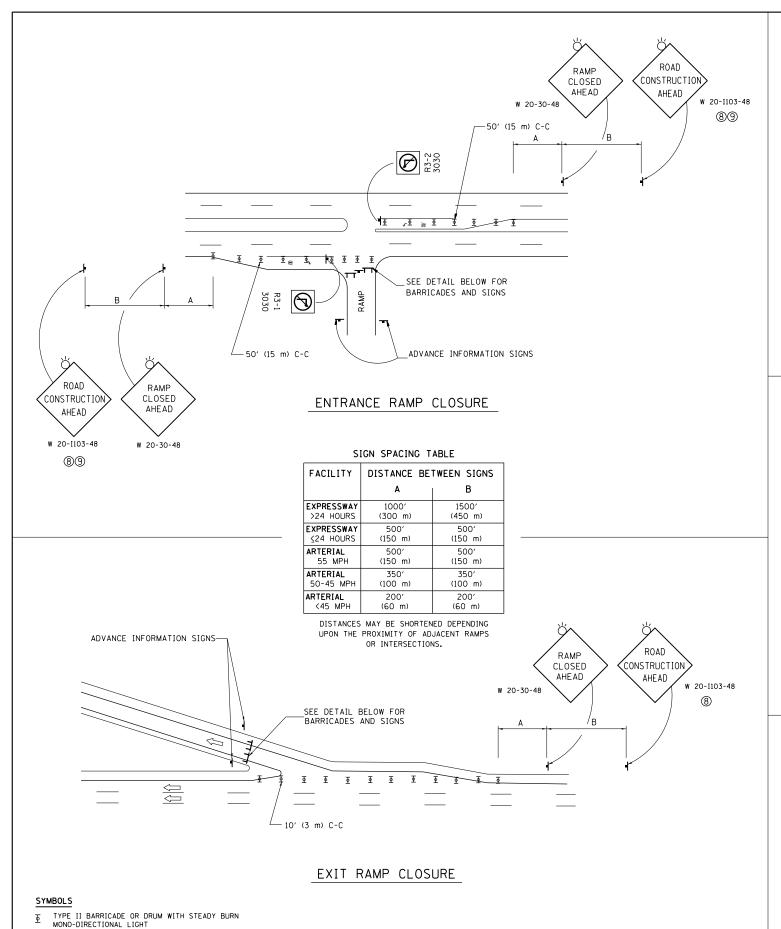
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SCALE:

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -
pw:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D140	11 570XW Nata\Design\D140115-sht-plan.dgn	REVISED -
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -
	PLOT DATE = 8/26/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

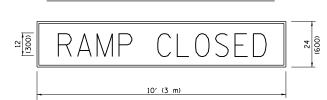
DEDIMANIENT DOCTECTIVE CHIEF DING DETAILS	F.A.I. SECTION COUNT			TOTAL SHEETS	SHEET NO.
PERMANENT PROTECTIVE SHIELDING DETAILS	VAR.	2015-0581	VARIOUS	21	18
			CONTRACT	NO. 6	2B23
SHEET NO 1 OF 1 SHEETS STA TO STA	FF0 0/	NO DICT NO 1 THE INDICATED AT	D DDO IECT		



TYPE III BARRICADE WITH 2 FLASHING LIGHTS

THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 8 (200) CAPS. FLASHER UNIT AMBER BOTH SIDES OF EACH TYPE III BARRICADE A' (I.2 m) CLOSED S CLOSED

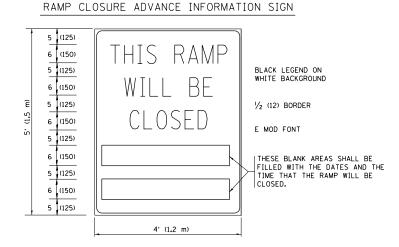
DETAIL FOR REQUIRED BARRICADES & SIGNS



RAMP CLOSURE ADVANCE WARNING SIGN

BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
GIGNS ARE REQUIRED ON ALL THE EXIT

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

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.
- 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, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (5) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- 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 FOUR (4) DAYS 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.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - DWS	REVISED - JAF 02-06		ENTRANCE AND EXIT RAMP	F.A	SECTION	COUNTY	TOTAL	SHEET
pw:\\IL084EBIDINTEG.:111:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D140	211 5RXWN ata\Design\D140115-sht-plan.dgn	REVISED - SPB 01-07	STATE OF ILLINOIS		VAR.	2015-0581	VARIOUS	21	19
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - SPB 12-09	DEPARTMENT OF TRANSPORTATION	CLOSURE DETAILS		TC-08	CONTRACT	NO. 6	2B23
	PLOT DATE = 8/26/2015	DATE - 02-83	REVISED - MD 06-13		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FFD. RC	ROAD DIST. NO. 1 JULINOIS FEE	D. AID PROJECT		

