

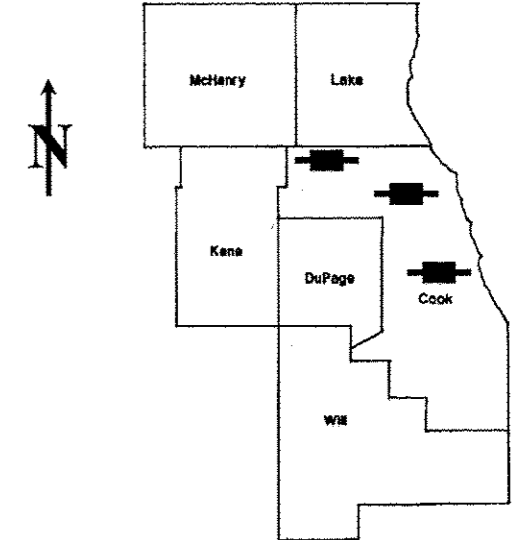
1-18-13 LETTING ITEM 015

FOR INDEX OF SHEETS SEE SHEET 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	1

**CONTRACT NO. 60V86  
D-91-088-13**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT ONE  
PROPOSED HIGHWAY PLANS**



LOCATION OF IMPROVEMENT INDICATED THUS: 

**IMPROVEMENTS ARE  
LOCATED IN THE CITY OF  
CHICAGO AND VILLAGE  
OF ARLINGTON HEIGHTS**

VARIOUS ROUTES  
VARIOUS LOCATIONS  
SECTION 2012-076BP  
BRIDGE PAINTING  
COOK COUNTY  
C-91-088-13

**SEE LOCATION MAPS  
SHEETS 6 THRU 8**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED: October 23 2012

*John Fortmann*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7 2012

*John D. Baranzelli, P.E.*  
acting ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2012

*William B. Freyer*  
acting DIRECTOR, DIVISION OF HIGHWAYS

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

C.U.A.N.  
CHICAGO UTILITY ALERT NETWORK  
1-312-744-7000

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

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

**CONTRACT NO. 60V86**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	2

CONTRACT NO. 60V86

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- 701400-06 FREEWAY / EXPRESSWAY, APPROACH TO LANE CLOSURE
- 701401-07 FREEWAY / EXPRESSWAY, LANE CLOSURE
- 701411-08 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
- 701446-04 FREEWAY / EXPRESSWAY, TWO LANE CLOSURE
- 701501-06 URBAN LANE CLOSURE, 2L, 2W - UNDIVIDED
- 701601-08 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS  
STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	3

CONTRACT NO. 60V86

**GENERAL NOTES**

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

BEFORE STARTING ANY EXCAVATION IN THE CITY OF CHICAGO, THE CONTRACTOR SHALL CALL "C.U.A.N." AT (312) 744-7000 OR FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF CHICAGO AND THE VILLAGE OF ARLINGTON HEIGHTS.

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

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 FOR EXPRESSWAYS AND (847)705-4470 FOR ARTERIALS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND PRESERVE THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.

TREE CLEARING FOR PAINTING ACCESS SHALL BE DONE ACCORDING TO ARTICLE 201.10.

THERE IS A COM ED TRANSFORMER LOCATED UNDER SN 016-0460. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS WHEN WORKING IN THE AREA.

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	4

Contract 60V86

### GENERAL NOTES FOR PAINT

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

A MINIMUM OF TWO (2) AIR MONITORS WILL BE REQUIRED AT LOCATION #3 (SN 016-0610) AND A MINIMUM OF ONE (1) AIR MONITOR WILL BE REQUIRED AT ALL OTHER LOCATIONS, TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

THE AREAS DESIGNATED TO BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/11. FOR LOCATIONS 2 AND 3, THE COLOR OF THE FINAL FINISH COAT FOR ALL HANDRAILS AND FENCES SHALL BE GRAY, MUNSELL NO 5B 7/11. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2.5YR 3/4.

ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO THE OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.

**LOC's 1 (SN 016-0961) & 5 (SN 016-0478)**

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

**LOC 2 (SN 016-2039)**

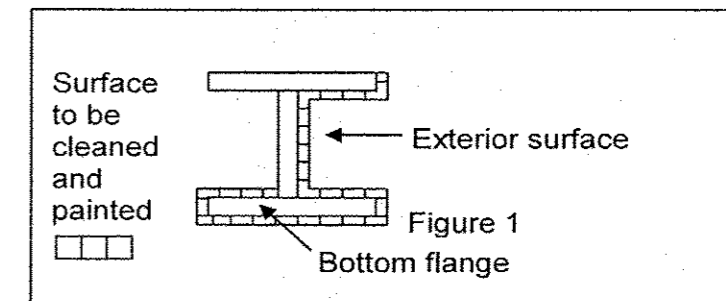
ALL EXISTING STEEL HANDRAILS AND FENCE POSTS ON BRIDGE AND WINGWALLS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

**LOC 3 (SN 016-0610)**

ALL EXISTING STEEL HANDRAILS AND FENCE POSTS ON ADJACENT RETAINING WALLS AT NORTHEAST QUADRANT SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

**LOC 4 (SN 016-0460)**

FOR BENT "J" ALL STRUCTURAL STEEL INCLUDING COLUMNS WITHIN FIVE (5) FT., (MEASURED PERPENDICULAR TO THE BENT) OF EITHER SIDE OF THE BENTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. FOR BENT "G" ALL STRUCTURAL STEEL INCLUDING COLUMNS WITHIN FIVE (5) FT. TO THE EAST AND TEN (10) FT. TO THE WEST, (MEASURED PERPENDICULAR TO THE BENT) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. STRUCTURAL STEEL FROM PIER "D" TO FIVE (5) FT. EAST OF BENT "F" SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.



**FASCIA BEAM PAINTING DETAIL**  
**FIGURE 1**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	5

CONTRACT NO. 60V86

**SUMMARY OF QUANTITIES**

*URBAN*

**CONSTRUCTION TYPE CODE: 0014**

CODE NO	DESCRIPTION	UNITS	100% STATE TOTAL	CONSTRUCTION TYPE CODE: 0014						
				LOC 1 016-0961	LOC 2 016-2039	LOC 3 016-0610	LOC 4 016-0460	LOC 5 016-0478		
66400505	CHAIN LINK FENCE, 8'	FOOT	814		500	200	114			
67100100	MOBILIZATION	L SUM	1	0.2	0.2	0.2	0.2	0.2		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1		1.0					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1.0						
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		0.5			0.5		
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.25	0.25	0.25		0.25		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.25	0.25	0.25		0.25		
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	0.2	0.2	0.2	0.2	0.2		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1.0						
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1.0					
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1			1.0				
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1				1.0			

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	6

CONTRACT NO. 60V86

**SUMMARY OF QUANTITIES**

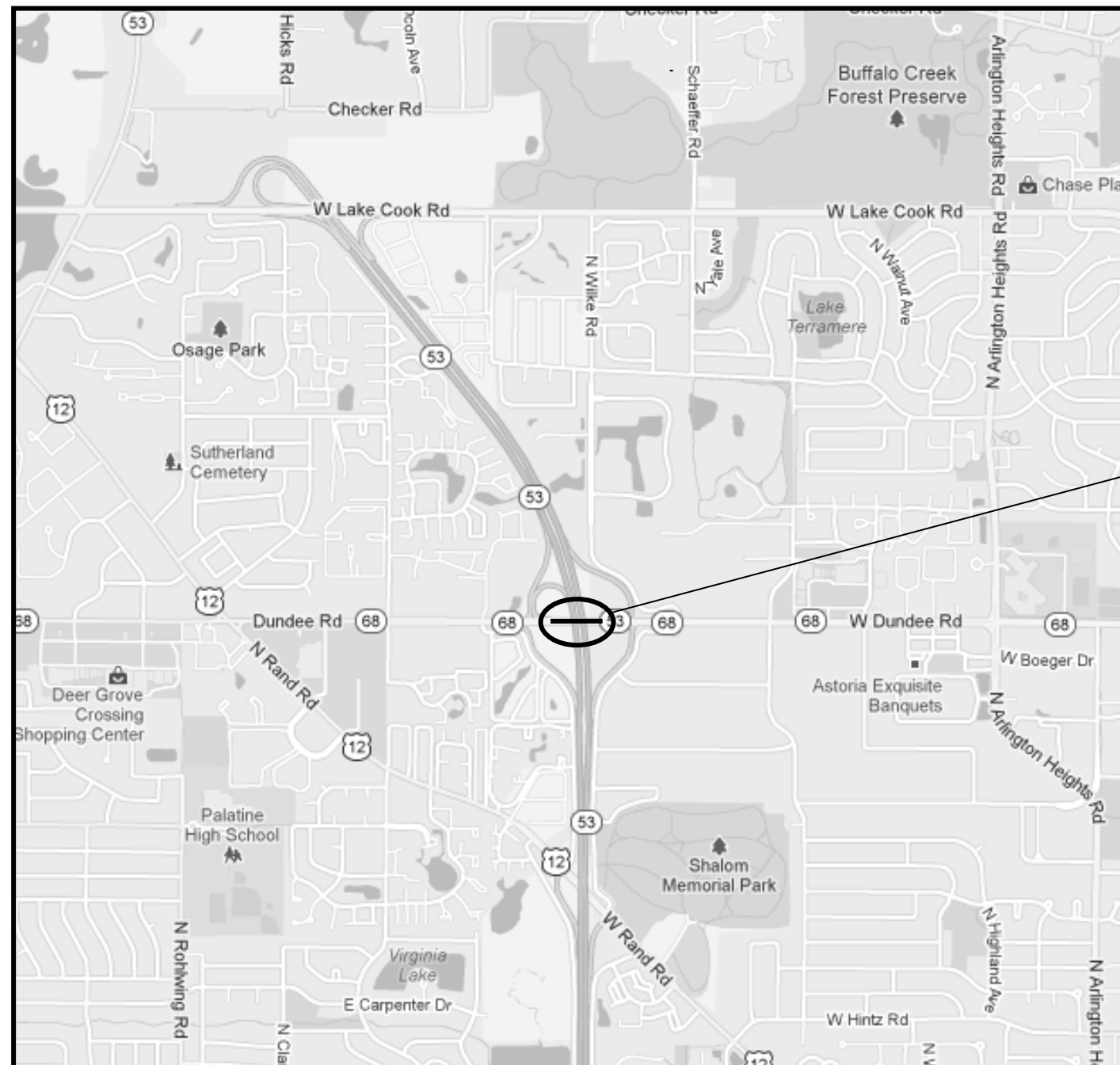
CODE NO	DESCRIPTION	UNITS	URBAN 100% STATE TOTAL	CONSTRUCTION TYPE CODE: 0014						
				LOC 1 016-0961	LOC 2 016-2039	LOC 3 016-0610	LOC 4 016-0460	LOC 5 016-0478		
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1					1.0		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	25.7	25.7					
Z0048665	RAILROAD PROTECTION AND LIABILITY INSURANCE	L SUM	1				1.0			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1.2	1.2	1.2	1.2	1.2		

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	7

R 10 E | R 11 E

CONTRACT NO. 60V86

T 42 N | T 43 N



**LOCATION 1:**  
**SN 016-0961**  
**IL 68 over IL 53**  
**VILLAGE OF ARLINGTON HEIGHTS**

**TRAFFIC DATA:**

**IL 53:**

2010 ADT = 66,200  
 POSTED SPEED LIMIT = 55 MPH

**IL 68:**

2011 ADT = 28,800  
 POSTED SPEED LIMIT = 45 MPH

**PALATINE AND WHEELING TOWNSHIPS**

**ILLINOIS DEPARTMENT OF  
 TRANSPORTATION**

**LOCATION MAP**

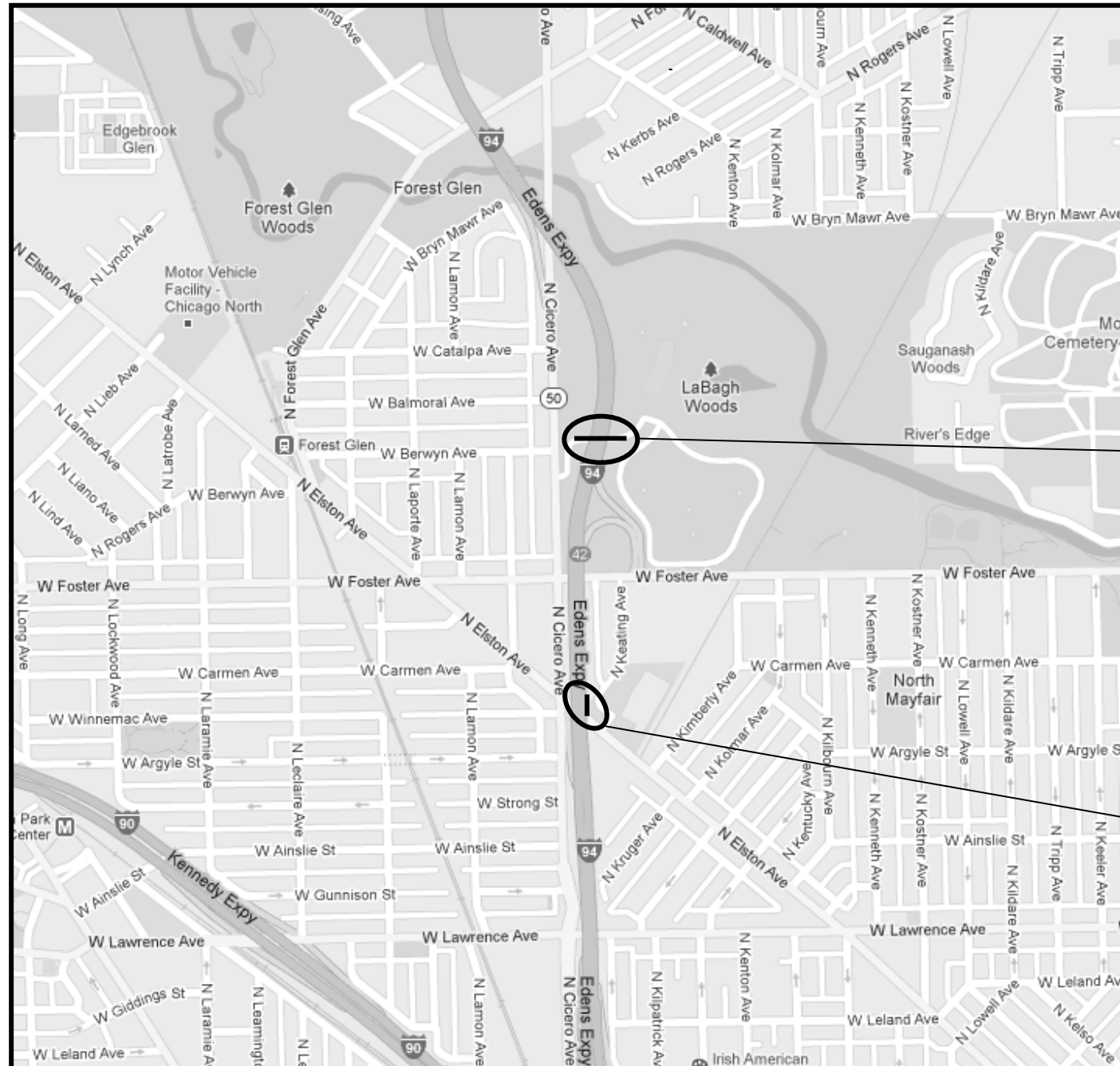
**LOCATION 1: SN 016-0961**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	8

**R 13 E**

**CONTRACT NO. 60V86**

**T 40 N**



**LOCATION 2:  
SN 016-2039**  
  
**FOREST PRESERVE RD OVER I-94 EDEN'S  
CITY OF CHICAGO**

**LOCATION 3:  
SN 016-0610**  
  
**ADJACENT TO ELSTON AVE OVER I-94 EDEN'S  
CITY OF CHICAGO**

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**  
  
**LOCATION MAP**  
  
**LOCATION 2: SN 016-2039  
LOCATION 3: SN 016-0610**

**TRAFFIC DATA:**

**I-94 EDEN'S:**

2010 ADT = 150,300  
POSTED SPEED LIMIT = 55 MPH

**FOREST PRESERVE RD.:**

2011 ADT = N/A  
POSTED SPEED LIMIT = 15 MPH

**ELSTON AVE:**

2010 ADT = 14,700  
POSTED SPEED LIMIT = 30 MPH

**JEFFERSON TOWNSHIP**

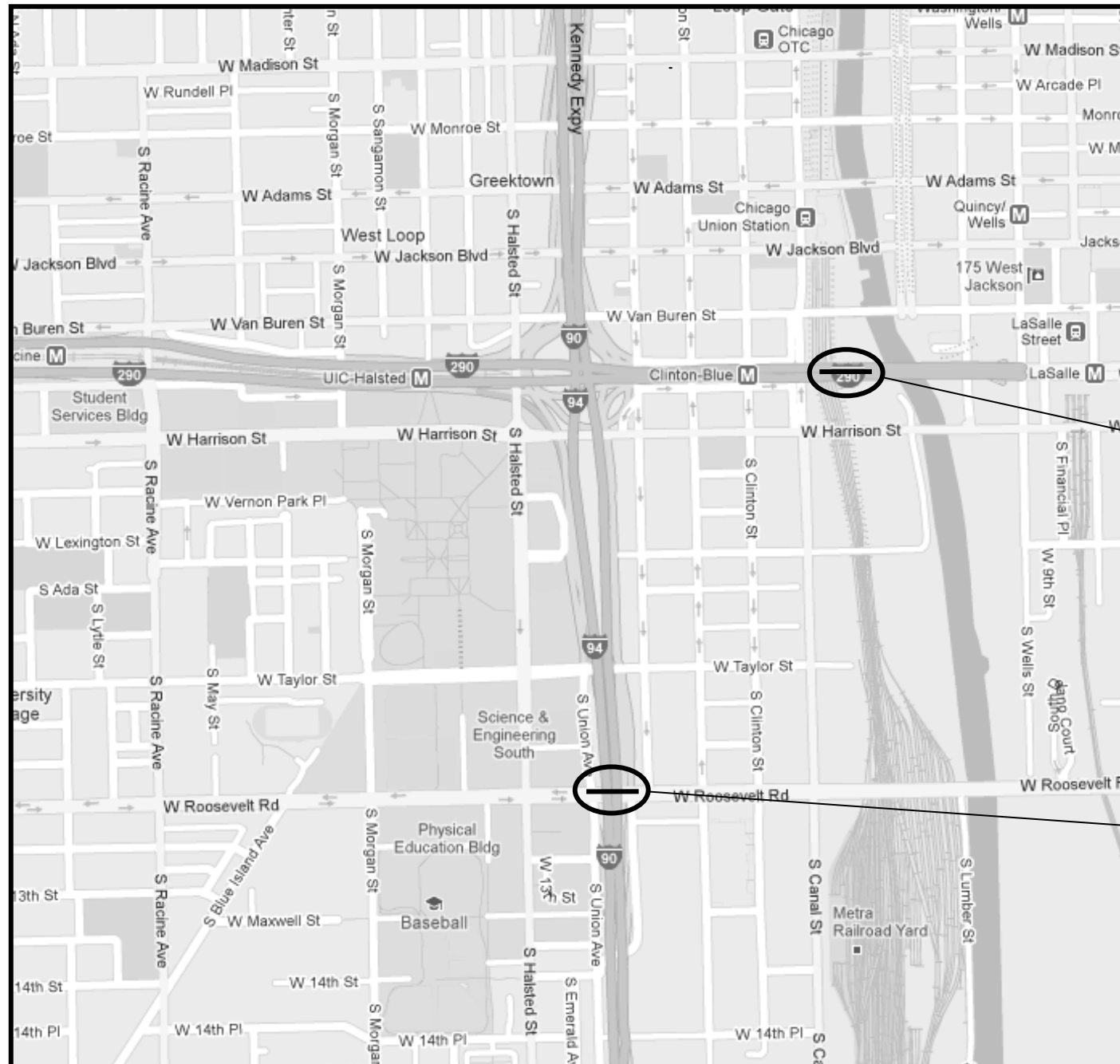


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	9

**R 14 E**

**CONTRACT NO. 60V86**

**T 39 N**



**LOCATION 4:**  
**SN 016-0460**  
**I-290 IKE (CONGRESS) BETWEEN S. BR.**  
**CHICAGO RIVER & POST OFFICE**  
**CITY OF CHICAGO**

**LOCATION 5:**  
**SN 016-0478**  
**ROOSEVELT RD OVER I-90/94 DAN RYAN**  
**CITY OF CHICAGO**

**ILLINOIS DEPARTMENT OF**  
**TRANSPORTATION**  
  
**LOCATION MAP**  
  
**LOCATION 4: SN 016-0460**  
**LOCATION 5: SN 016-0478**

**TRAFFIC DATA:**

**I-290 IKE (CONGRESS ST.):**

2010 ADT = 66,800  
 POSTED SPEED LIMIT = 45 MPH

**I-90/94 DAN RYAN:**

2010 ADT = 212,300  
 POSTED SPEED LIMIT = 45 MPH

**ROOSEVELT RD.:**

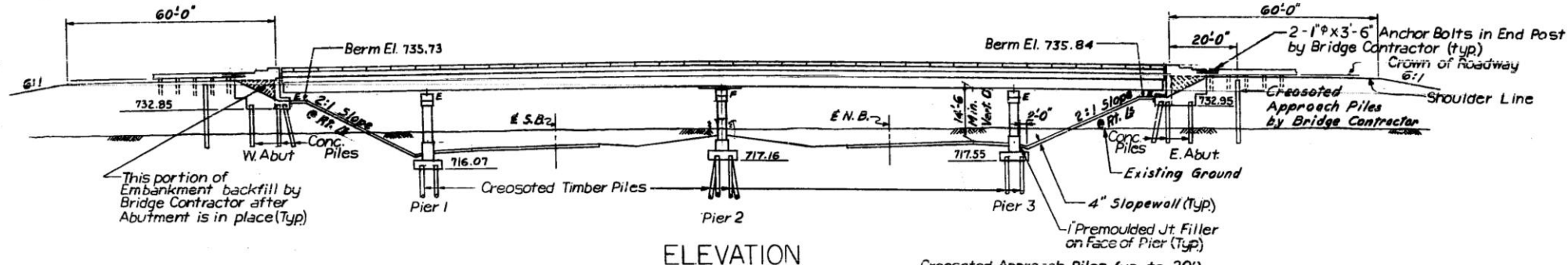
2010 ADT = 28,100  
 POSTED SPEED LIMIT = 30 MPH

**WEST TOWNSHIP**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	10

CONTRACT NO. 60V86

Note:  
4" Sub-base granular material Type A under bridge approach slabs.

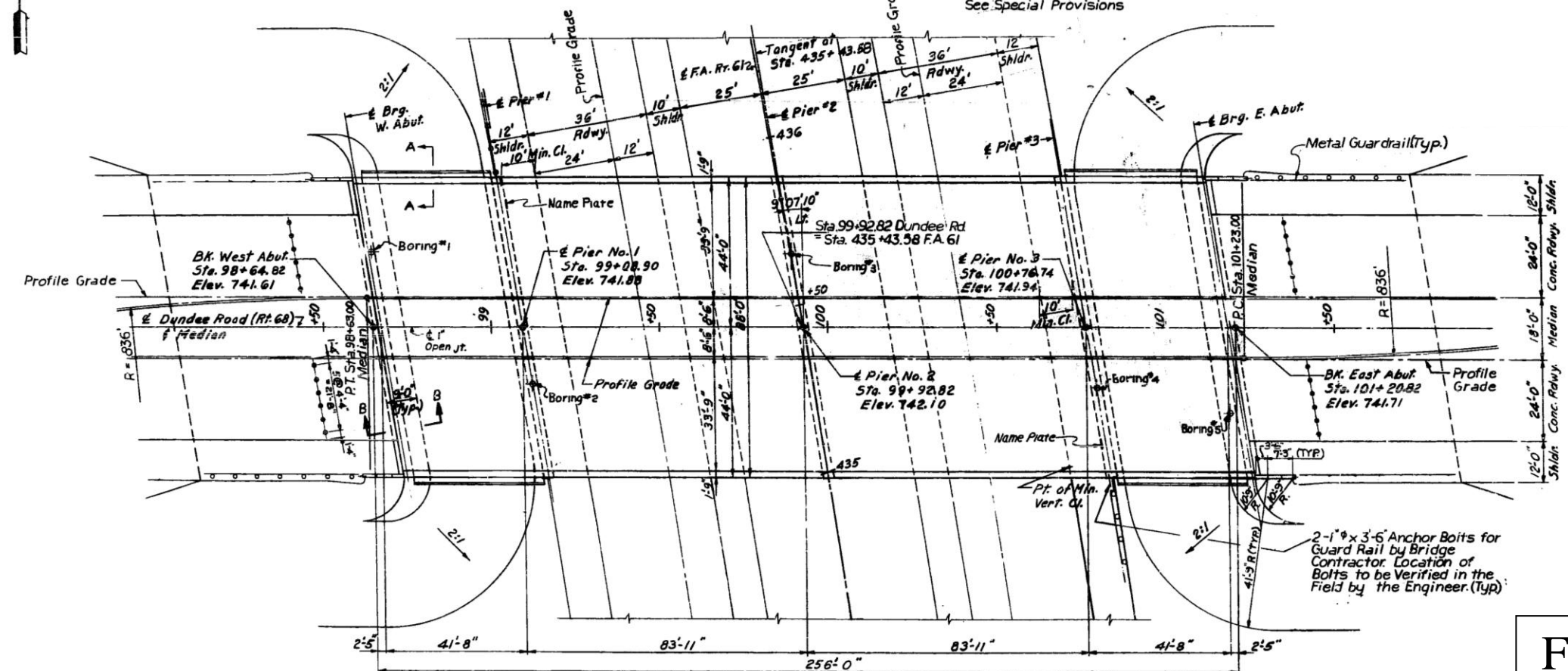


ELEVATION

Creosoted Approach Piles (up to 20')

	W. Abut.	E. Abut.
No. Required -	12	12
Req'd Length -	18'	18'

See Special Provisions



PLAN

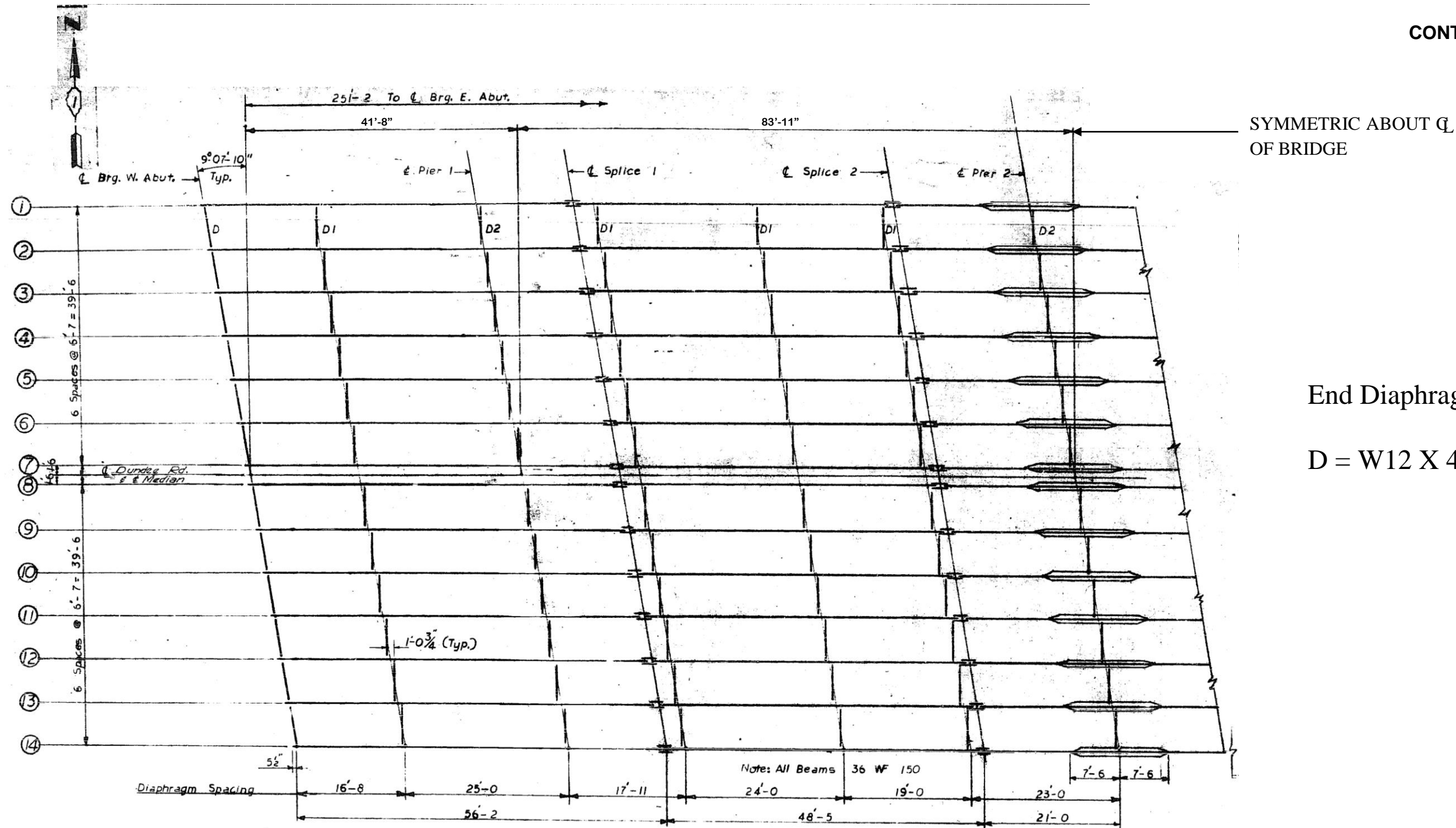
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 1  
SN 016-0961  
IL 68 over IL 53

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	11

CONTRACT NO. 60V86



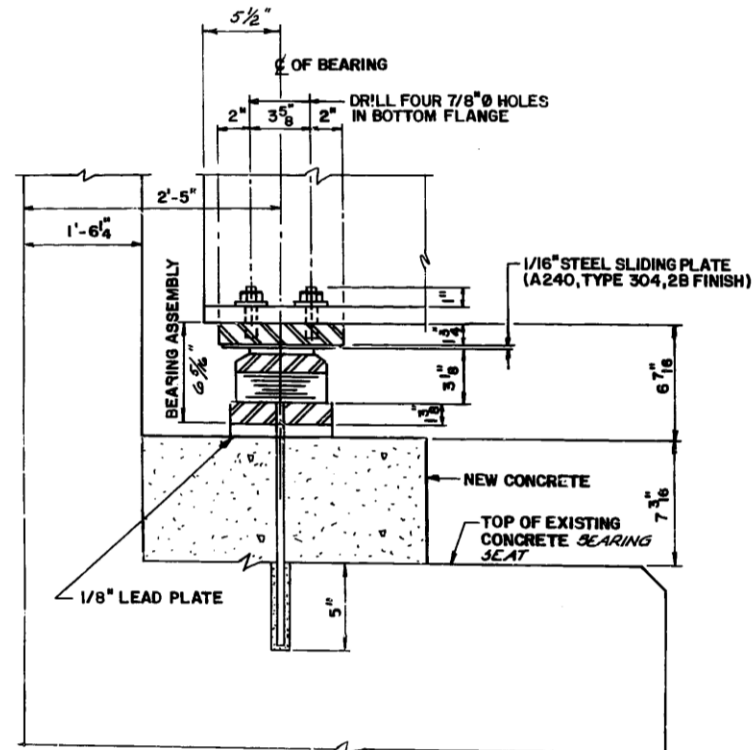
HALF FRAMING PLAN

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

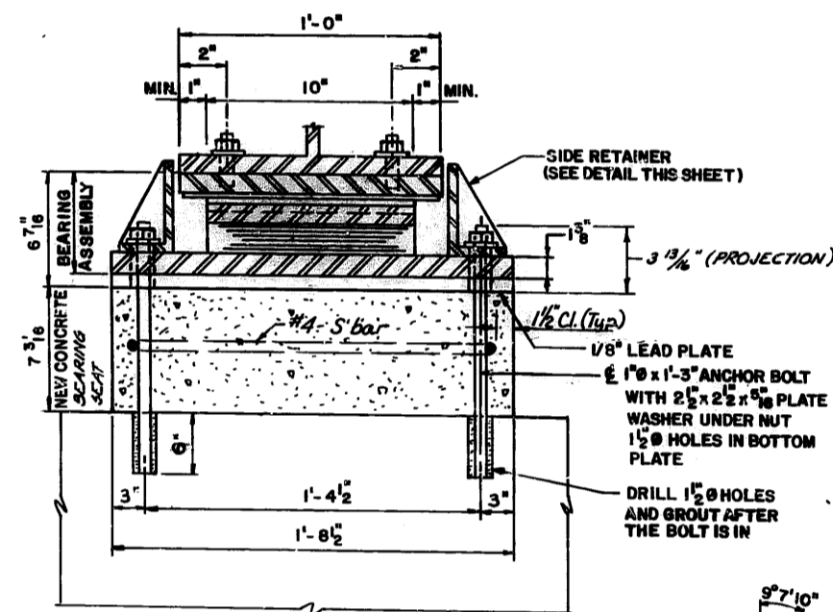
EXISTING BRIDGE PLAN  
LOCATION 1  
SN 016-0961  
IL 68 over IL 53

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	12

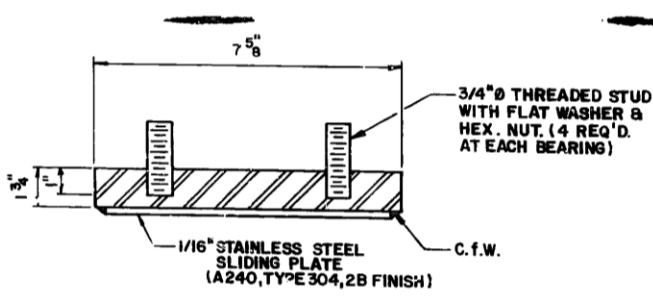
CONTRACT NO. 60V86



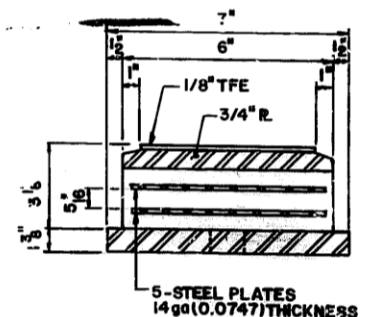
SECTION A-A



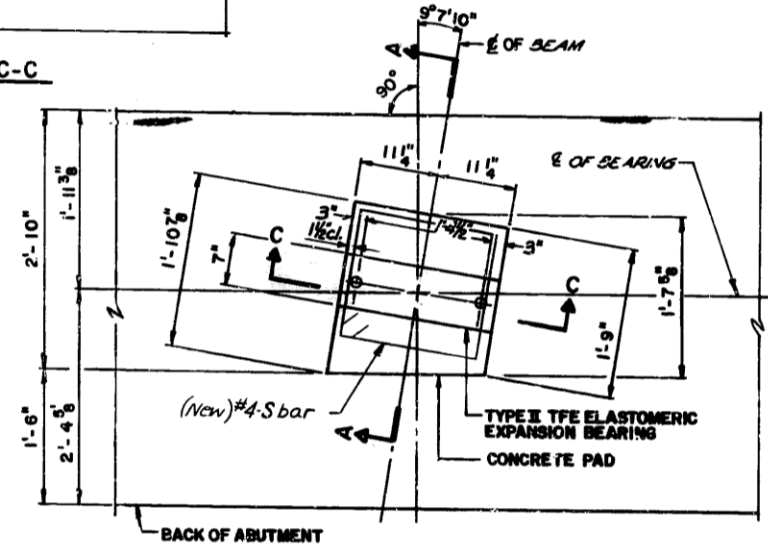
SECTION C-C



TOP BEARING ASSEMBLY



BOTTOM BEARING ASSEMBLY



PLAN OF PROPOSED TYPE II TFE ELASTOMERIC EXPANSION BEARINGS AT ABUTMENTS (TYPICAL)

DETAILS OF PROPOSED TYPE II TFE ELASTOMERIC EXPANSION BEARING AT ABUTMENTS

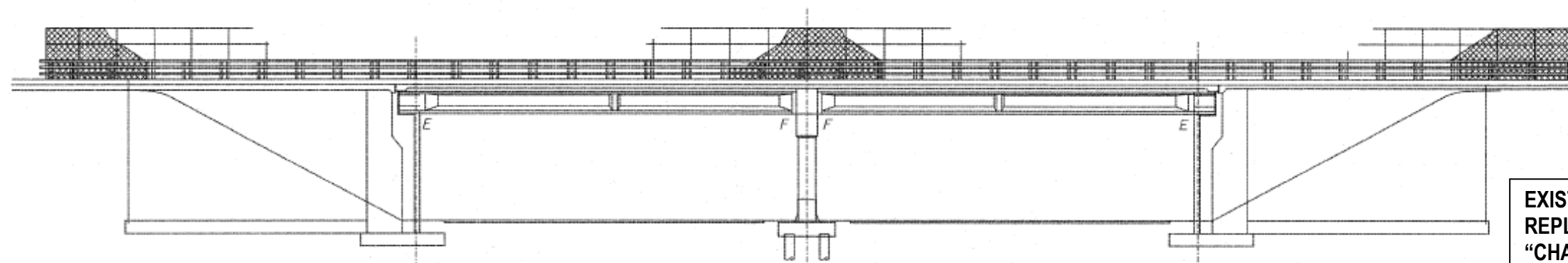
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 1  
SN 016-0961  
IL 68 over IL 53

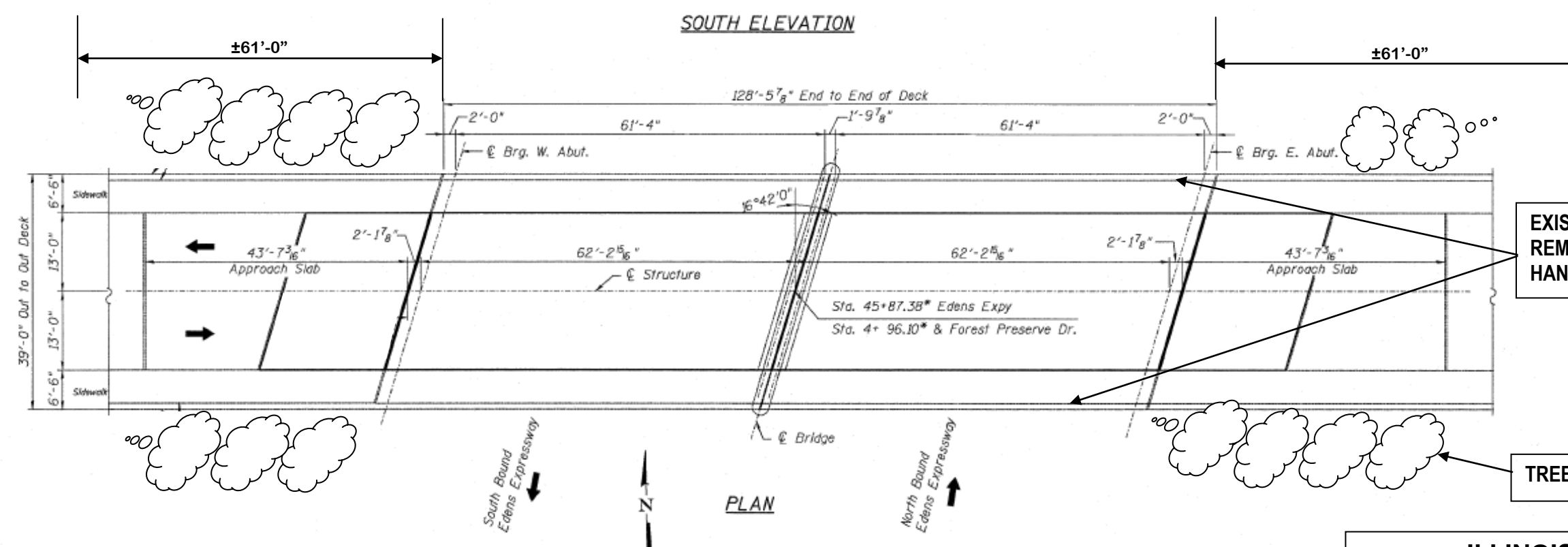
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	13

Existing Structure: SN 016-2039, built in 1957 as F.A.I. Rte. 2-Project I-02-2(15) Section 263-0101.15-15D over Edens Expressway (F.A.I-94). Repaired and resurfaced in 1982 as two equal span Reinforced Concrete deck on Precast Prestressed Concrete Beams. The structure measures 39'-0" Out to Out Deck and 128'-5<sup>7</sup>/<sub>8</sub>" End to End of Deck Slab. The substructure consists of Reinforced Concrete closed abutments and a multi-column Pier. Traffic is to be maintained utilizing staged construction. One lane for both directions will be provided by using temporary traffic signals.

CONTRACT NO. 60V86



EXISTING MOUNTING HARDWARE TO BE REPLACED. COST INCLUDED IN COST OF "CHAIN LINK FABRIC, TYPE 1, 8'-0"



EXISTING 8' CHAIN LINK FABRIC TO BE REMOVED & REPLACED TO PAINT HANDRAIL (APPROX. 500 FT)

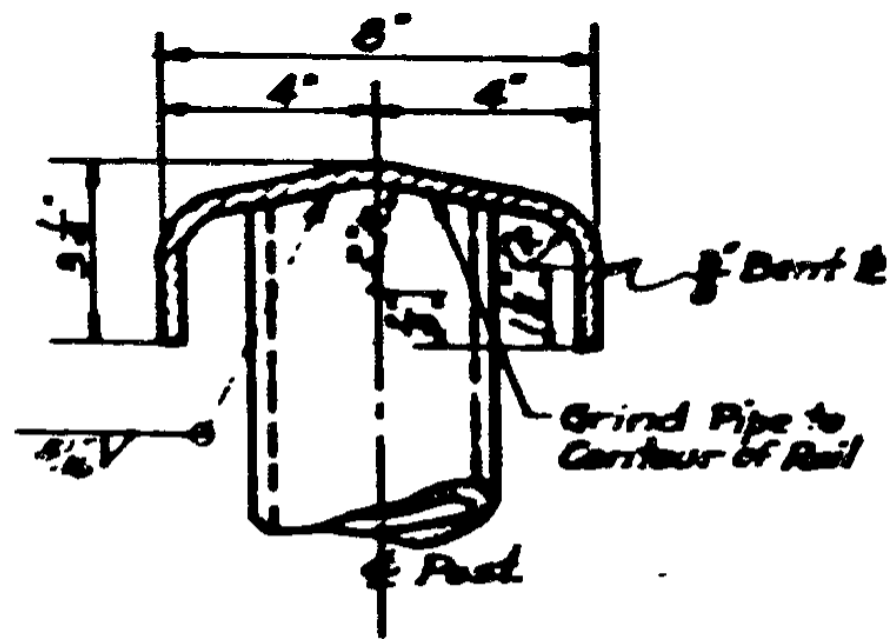
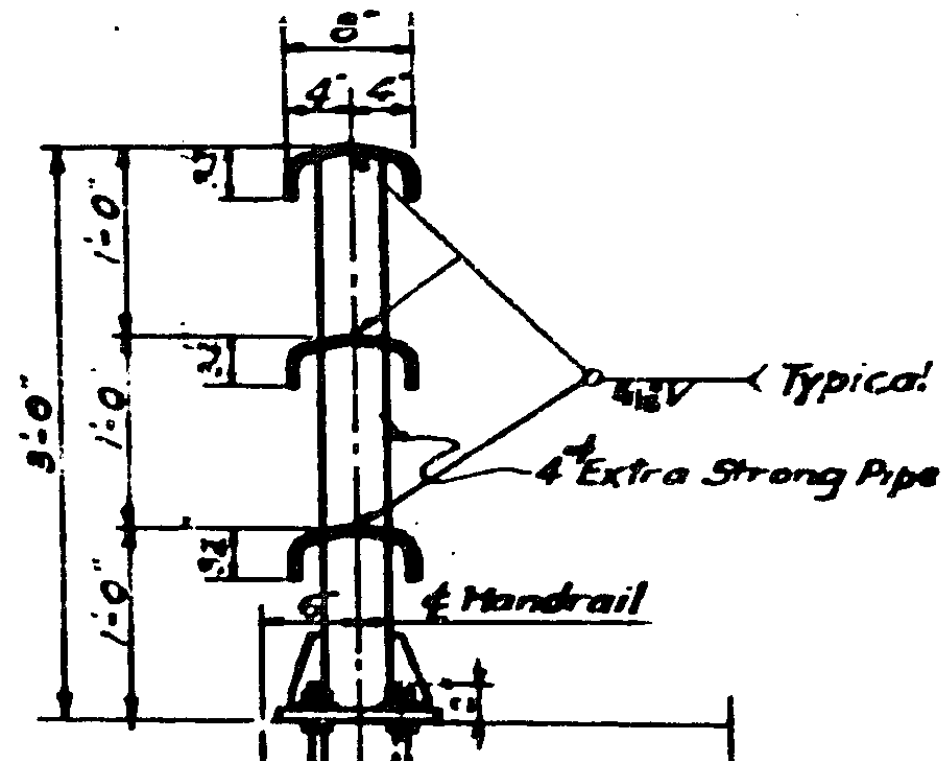
TREES TO BE TRIMMED (TYP)

\*\*EXISTING SIGN MOUNTED TO FENCE SHALL BE REMOVED & REPLACED  
COST INCLUDED WITH "CHAIN LINK FABRIC, TYPE 1, 8'-0"

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**EXISTING BRIDGE PLAN**  
**LOCATION 2**  
**SN 016-2039**  
Forest Preserve Dr. over I-94 Eden's

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	14

CONTRACT NO. 60V86



**DETAIL HANDRAIL AND POST**  
Scale = 3" = 1'-0"

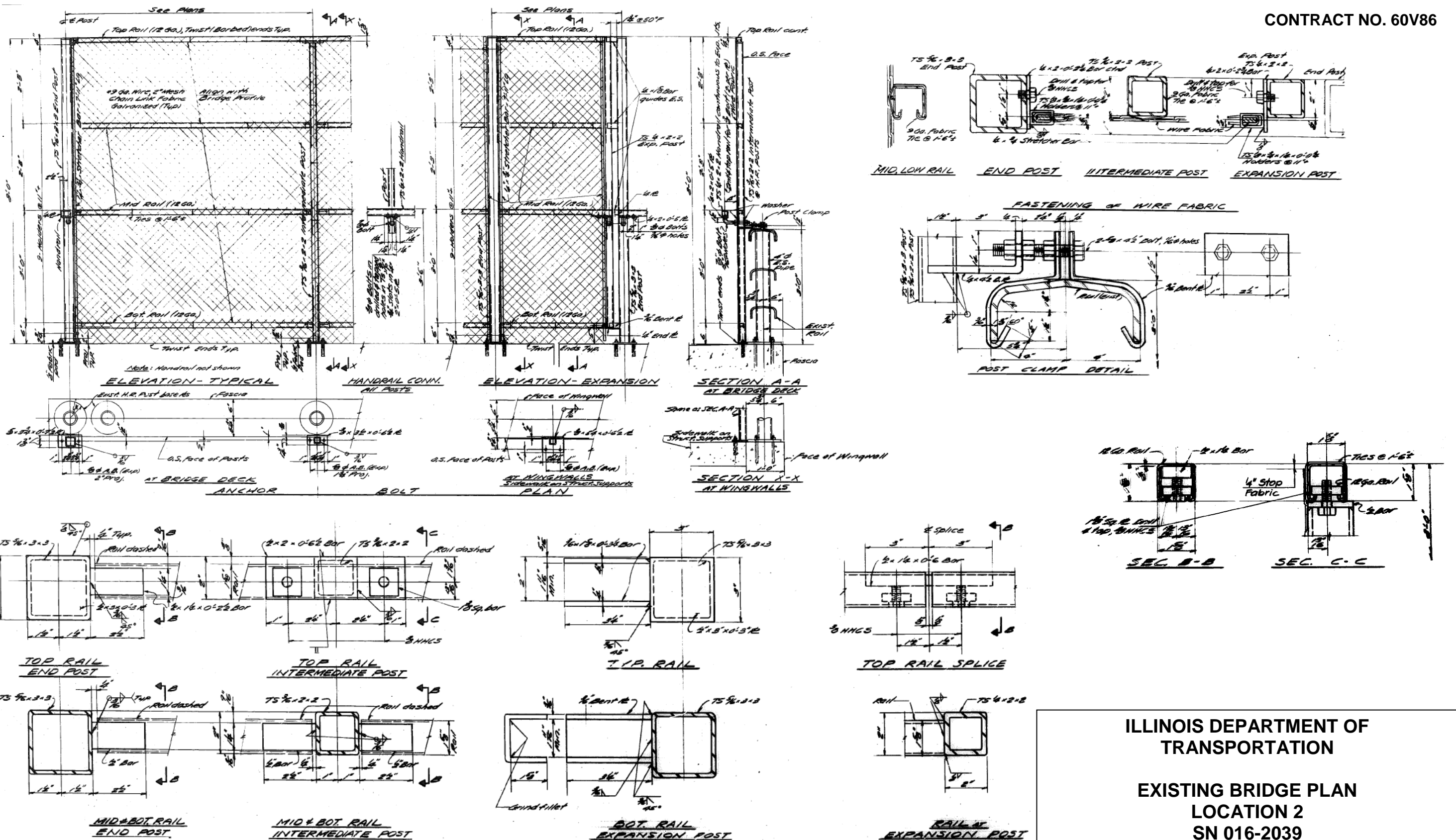
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 2  
SN 016-2039

Forest Preserve Dr. over I-94 Eden's

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	15

CONTRACT NO. 60V86



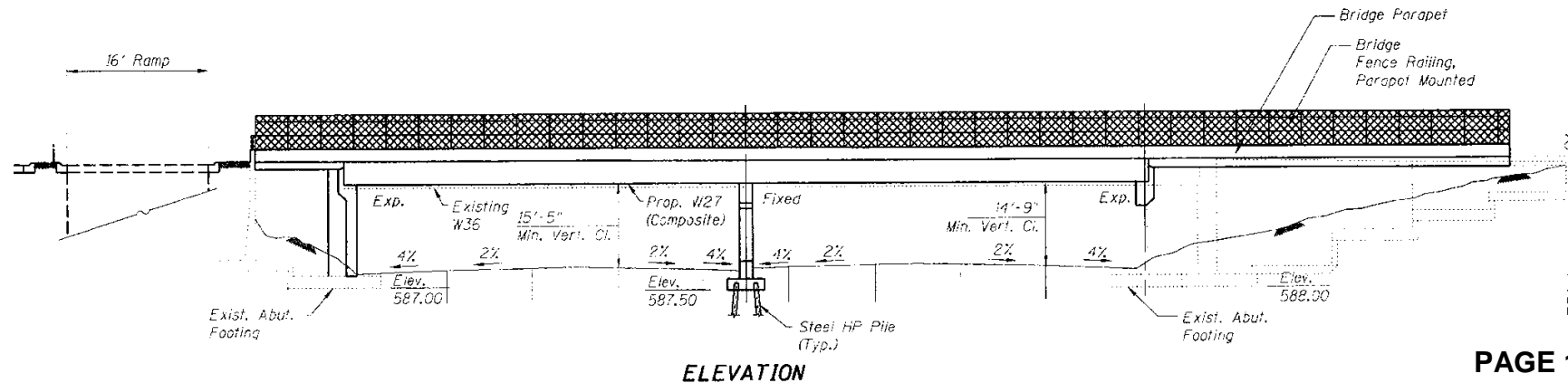
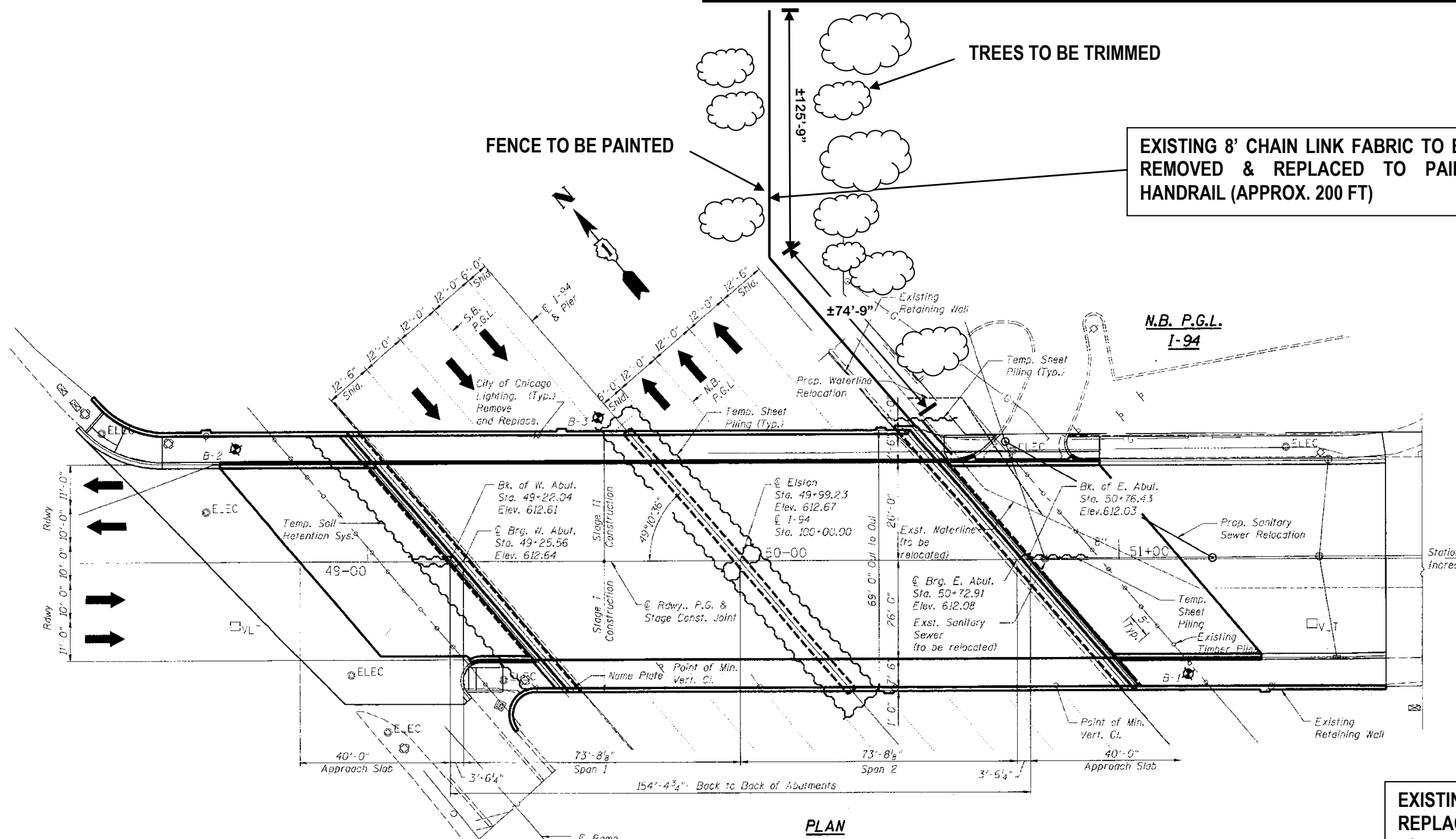
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 2  
SN 016-2039

Forest Preserve Dr. over I-94 Eden's

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	16

CONTRACT NO. 60V86



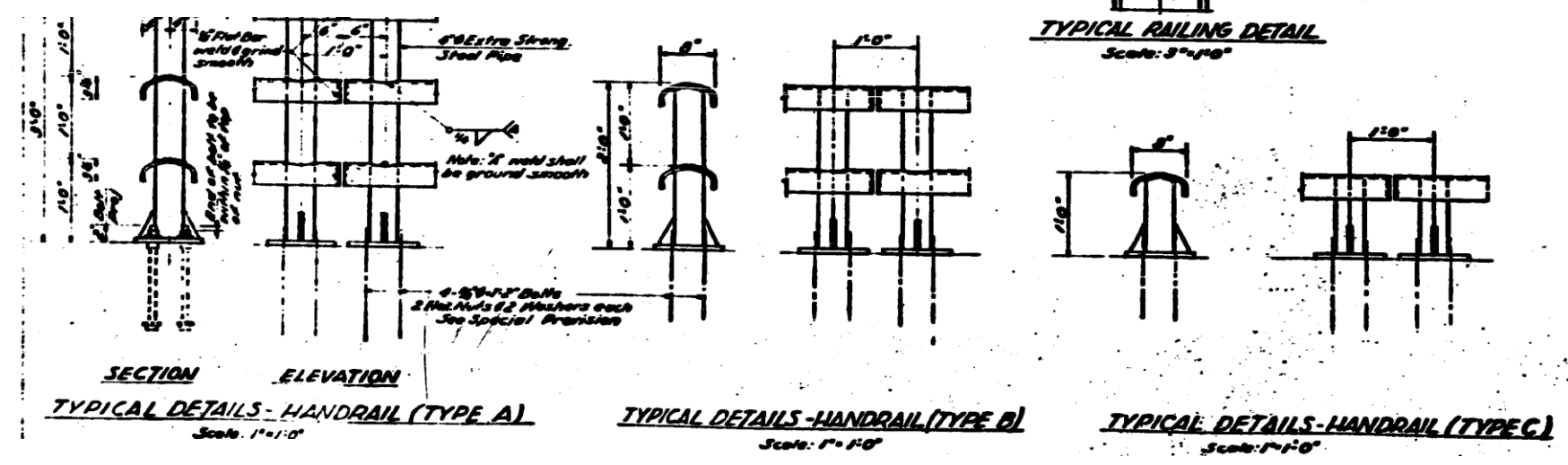
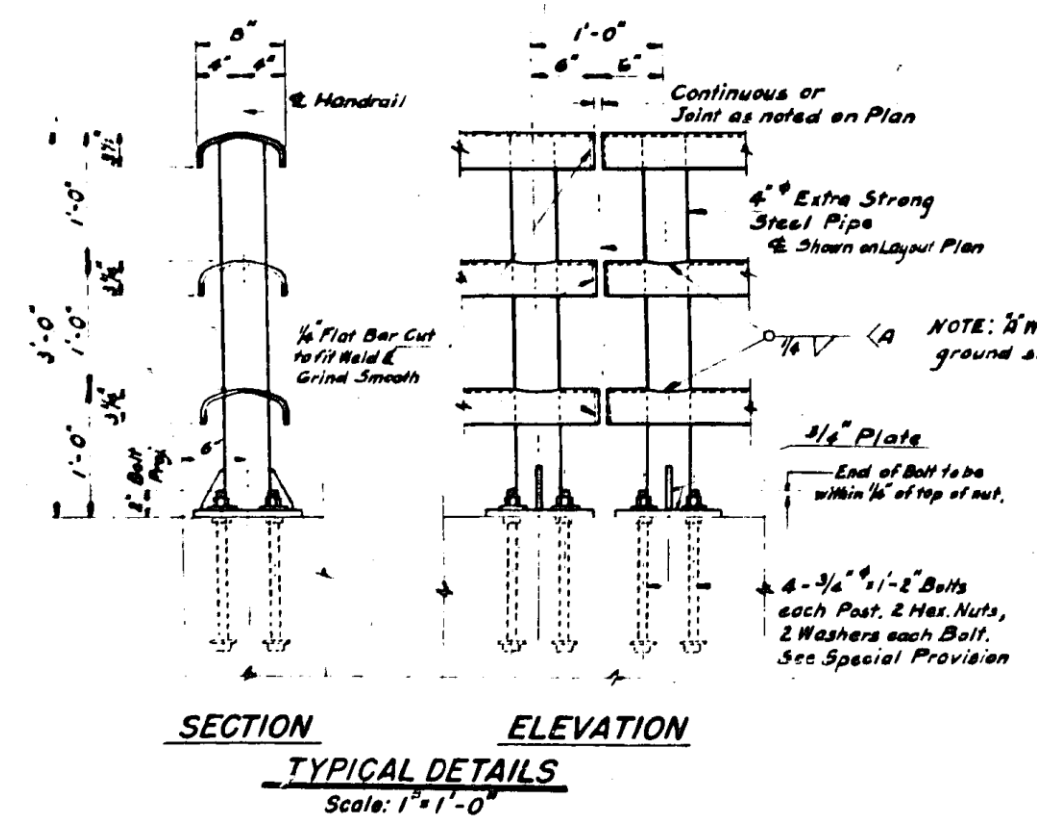
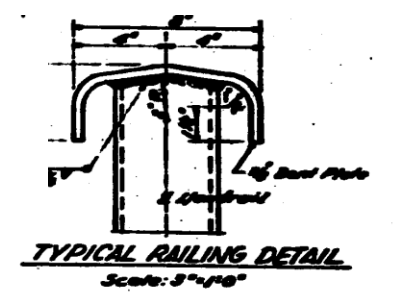
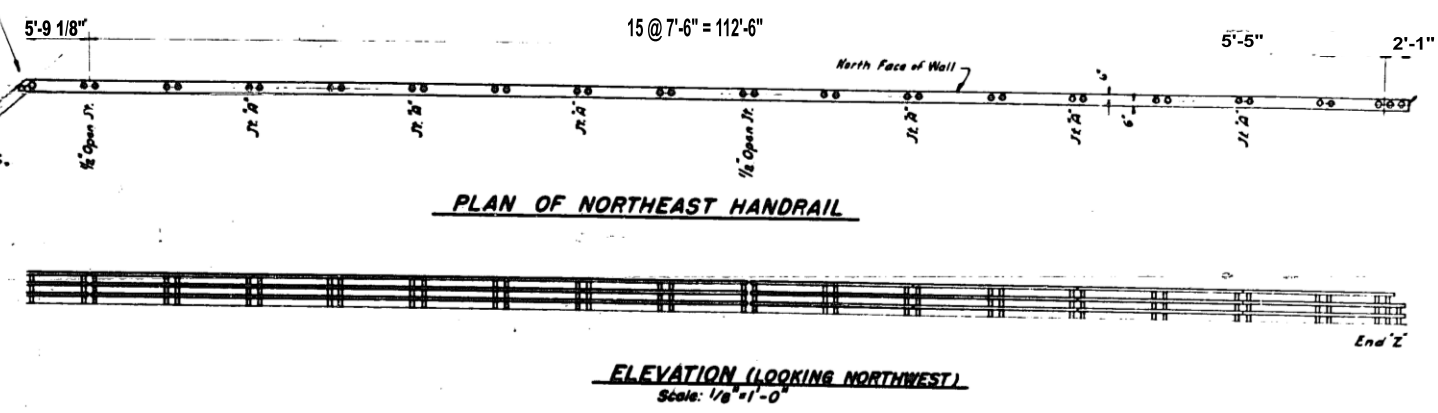
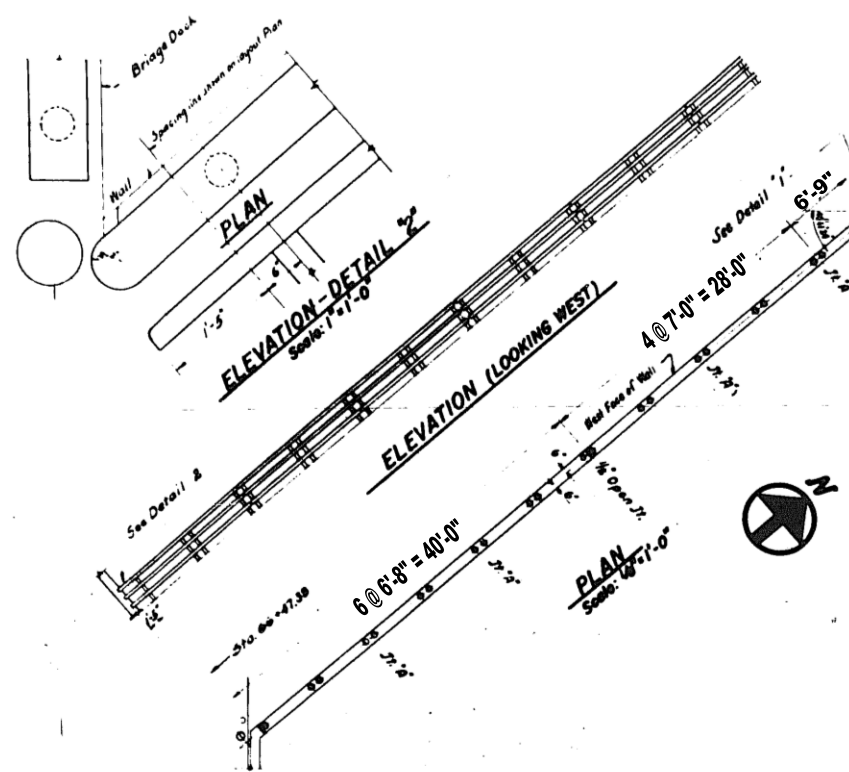
EXISTING MOUNTING HARDWARE TO BE REPLACED. COST INCLUDED IN COST OF "CHAIN LINK FABRIC, TYPE 1, 8'-0'''

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING BRIDGE PLAN**  
**LOCATION 3**  
**SN 016-0610**  
 Elston Ave. over I-94 Eden's



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	17

CONTRACT NO. 60V86



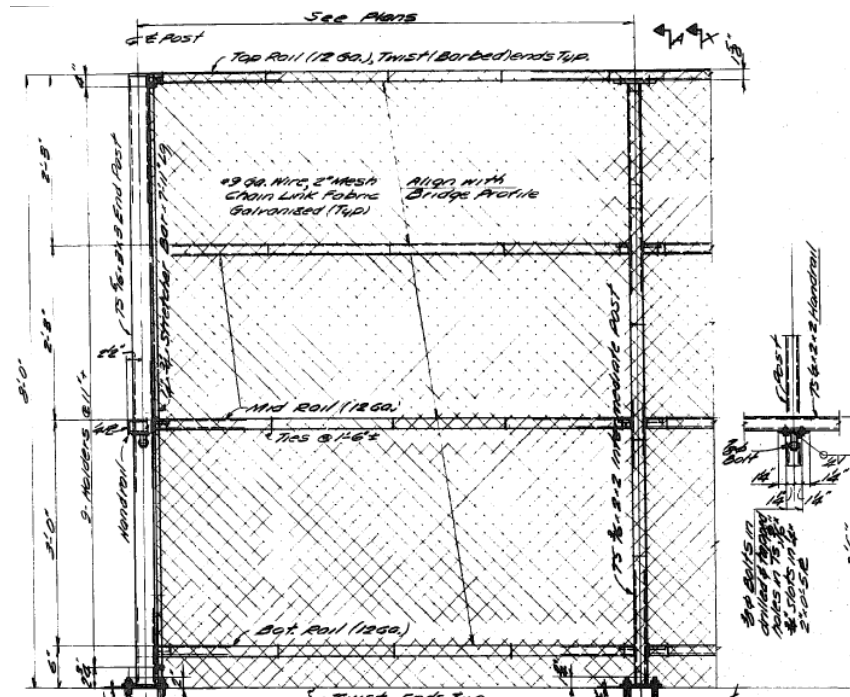
**HANDRAIL ON RETAINING WALL**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

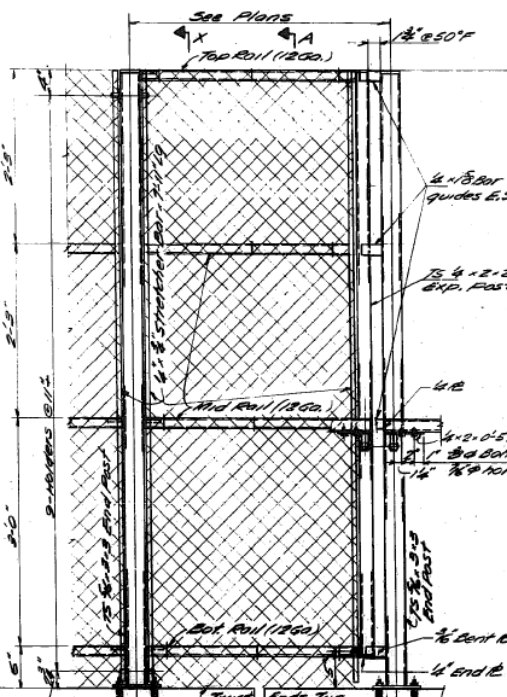
EXISTING BRIDGE PLAN  
LOCATION 3  
SN 016-0610  
Elston Ave. over I-94 Eden's

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	18

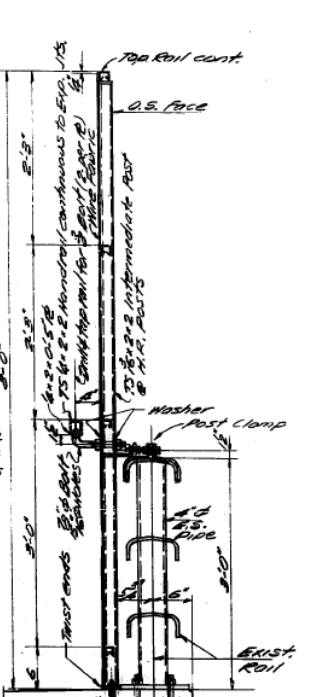
CONTRACT NO. 60V86



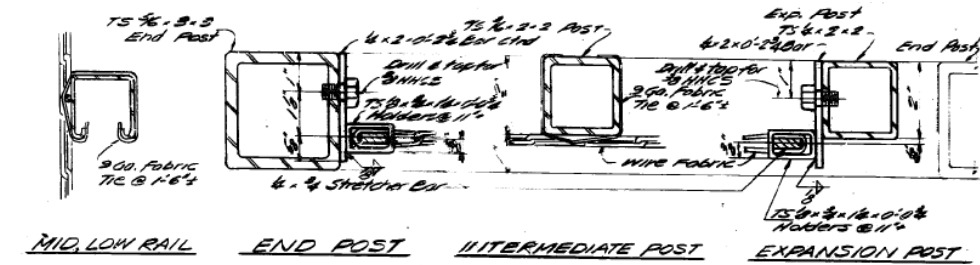
ELEVATION - TYPICAL



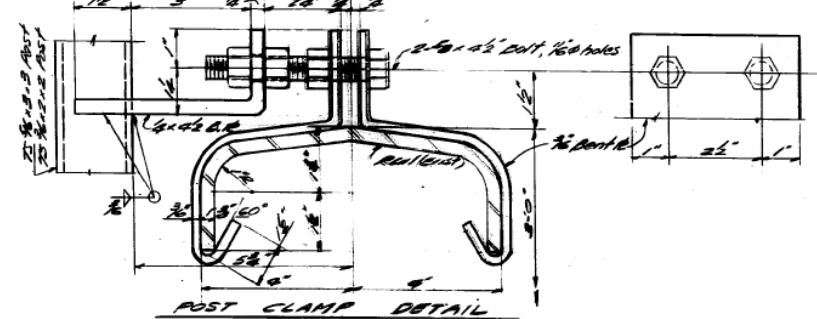
ELEVATION - EXPANSION



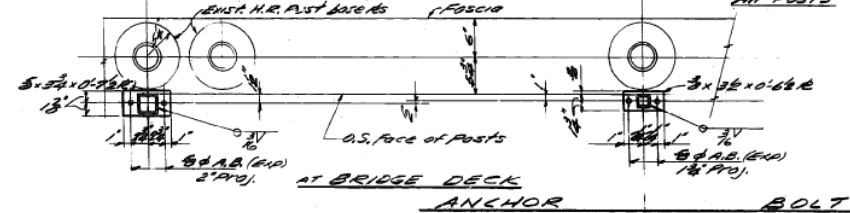
SECTION A-A AT BRIDGE DECK



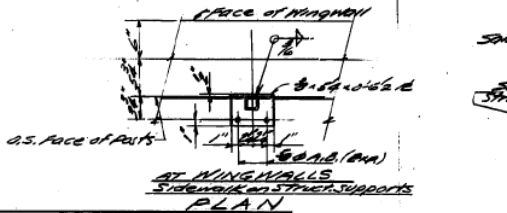
FASTENING OF WIRE FABRIC



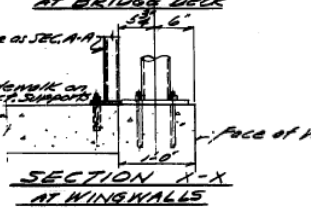
POST CLAMP DETAIL



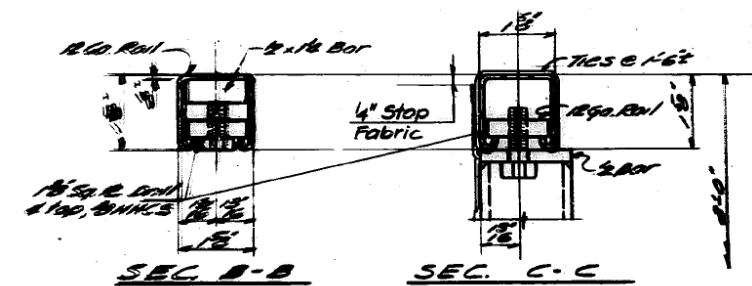
AT BRIDGE DECK ANCHOR



AT WINGWALLS STRUC. SUPPORTS PLAN

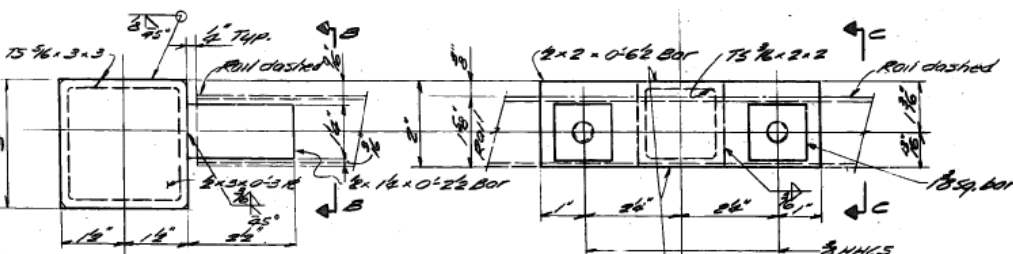


SECTION X-X AT WINGWALLS

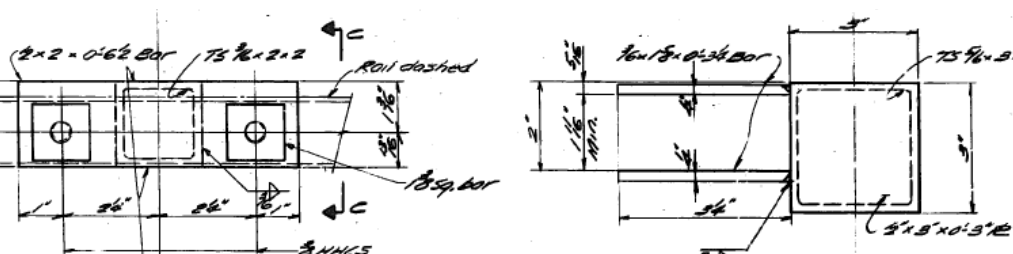


SEC. B-B

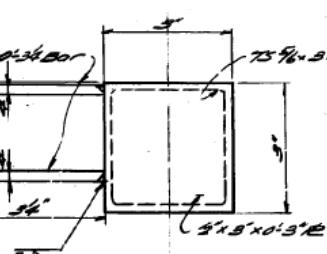
SEC. C-C



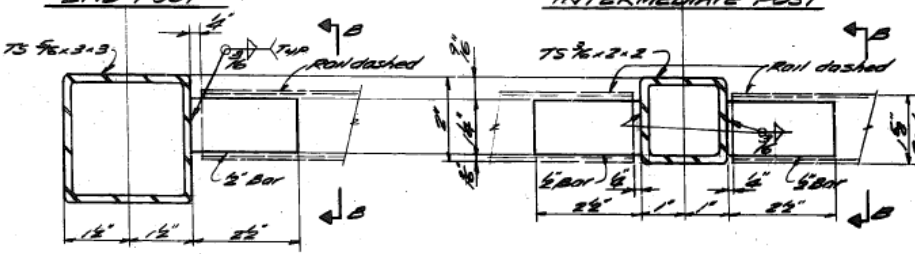
TOP RAIL END POST



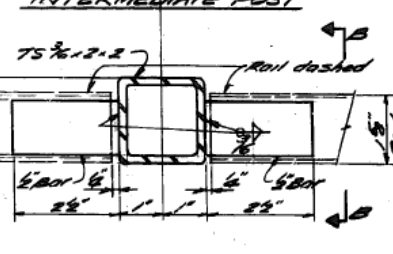
TOP RAIL INTERMEDIATE POST



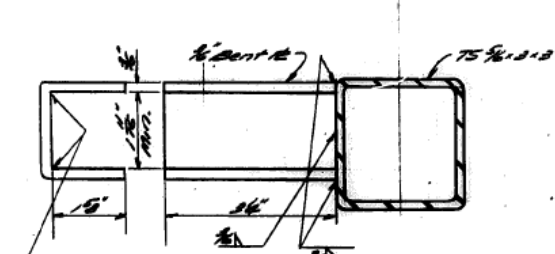
TOP RAIL SPLICE



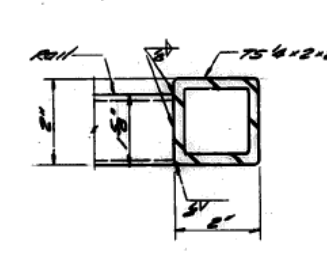
MID & BOT RAIL END POST



MID & BOT RAIL INTERMEDIATE POST



BOT RAIL EXPANSION POST

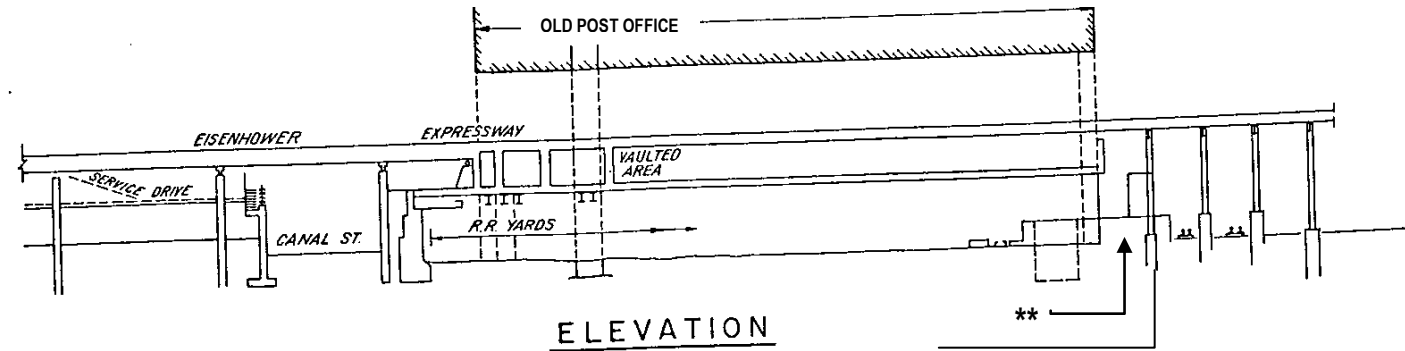
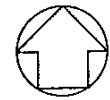


RAIL AT EXPANSION POST

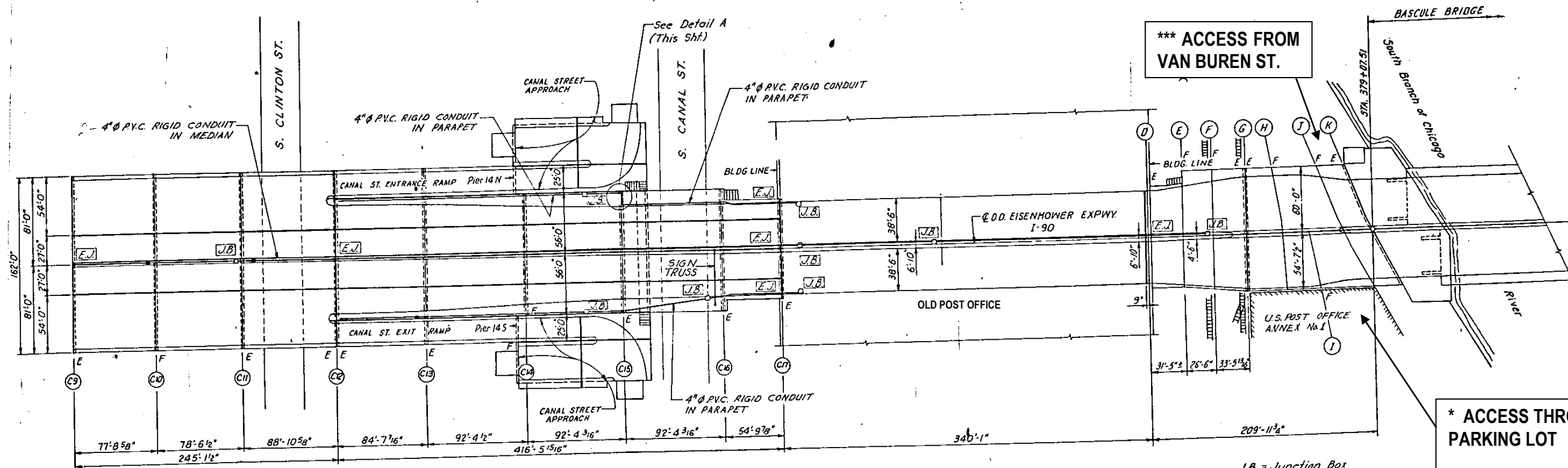
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
EXISTING BRIDGE PLAN  
LOCATION 3  
SN 016-0610  
Elston Ave. over I-94 Eden's

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	19

CONTRACT NO. 60V86



**\*\* ACCESS TO PAINT BETWEEN D & E FROM LOWER LEVEL OF AMTRAK**



**\*\*\* ACCESS FROM VAN BUREN ST.**

**\* ACCESS THROUGH POST OFFICE PARKING LOT**

J.B. = Junction Box  
E.J. = Expansion Joint

**FOR INFORMATION ONLY**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLAN**

**LOCATION 4**

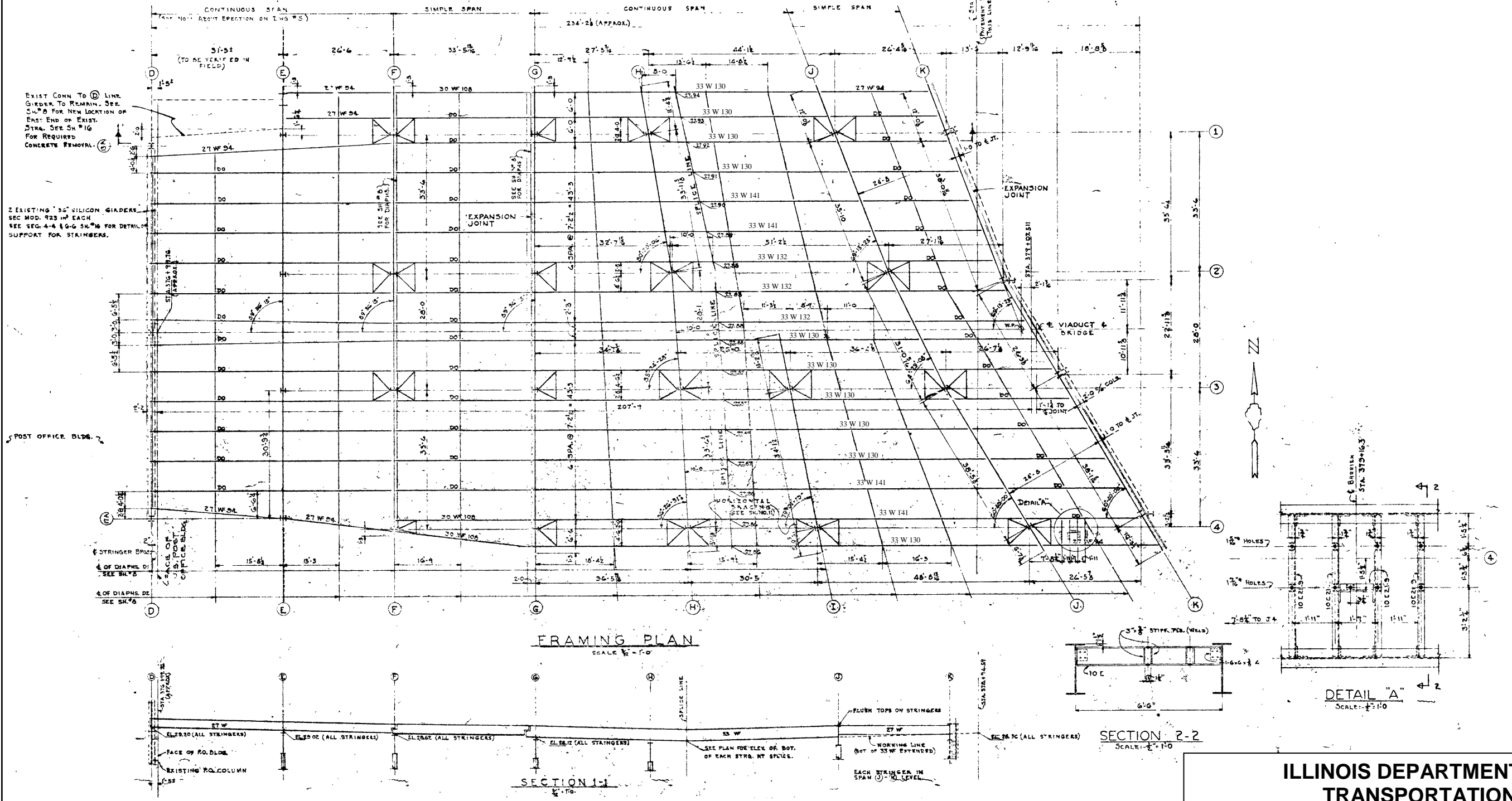
**SN 016-0460**

**I-290 (Congress St.) over Post Office to River**



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	21

CONTRACT NO. 60V86

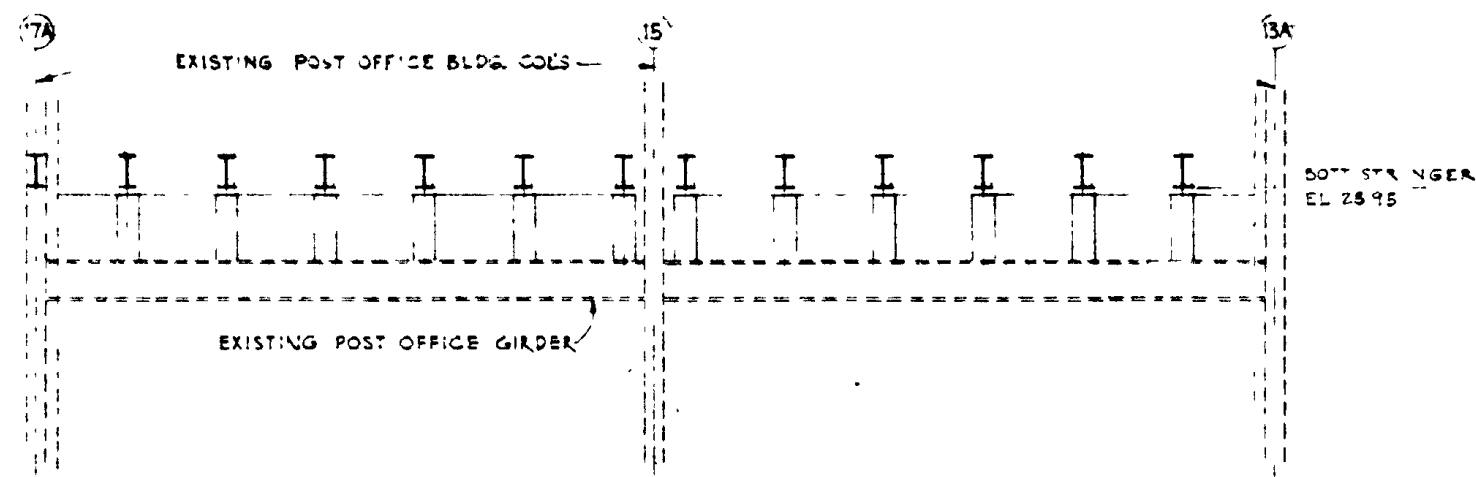


ILLINOIS DEPARTMENT OF  
TRANSPORTATION

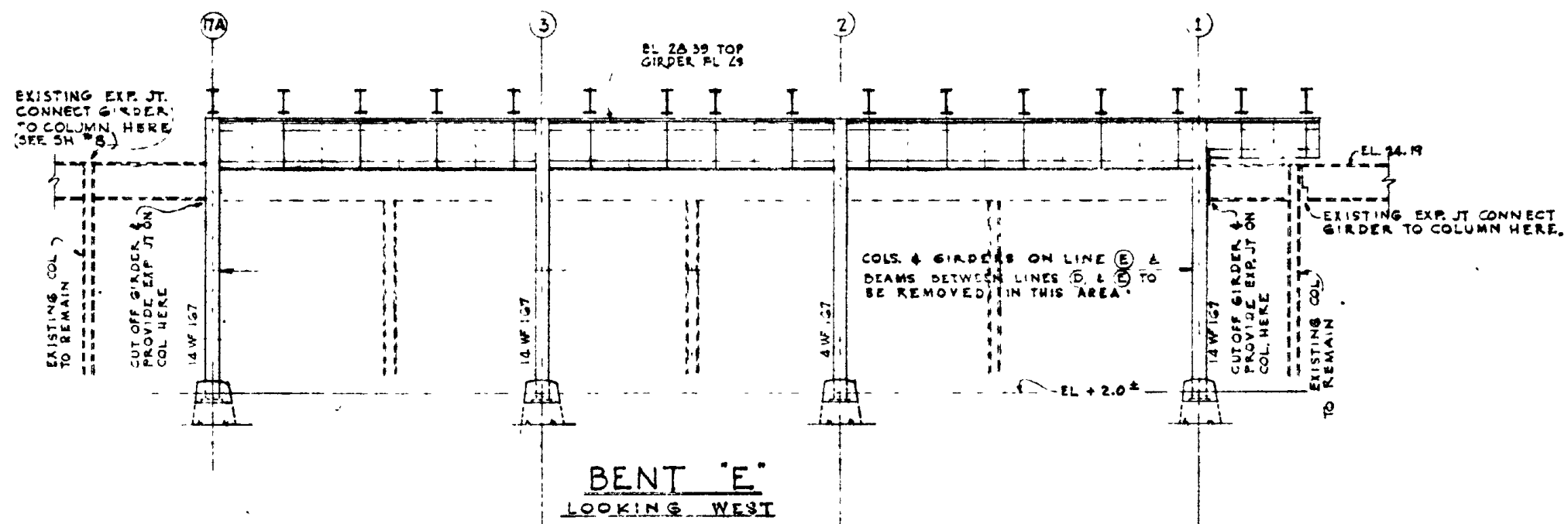
EXISTING BRIDGE PLAN  
LOCATION 4  
SN 016-0460  
I-290 (Congress St.) over Post Office to River

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	22

CONTRACT NO. 60V86



ELEVATION-D-LINE  
FRAMING TO EXISTING POST OFFICE WALL



ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 4  
SN 016-0460

I-290 (Congress St.) over Post Office to River



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	24

CONTRACT NO. 60V86

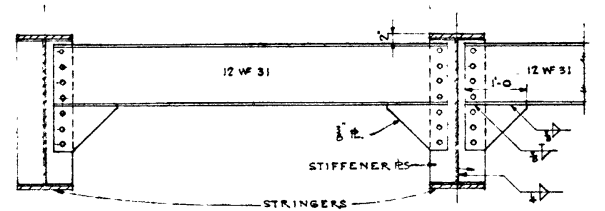
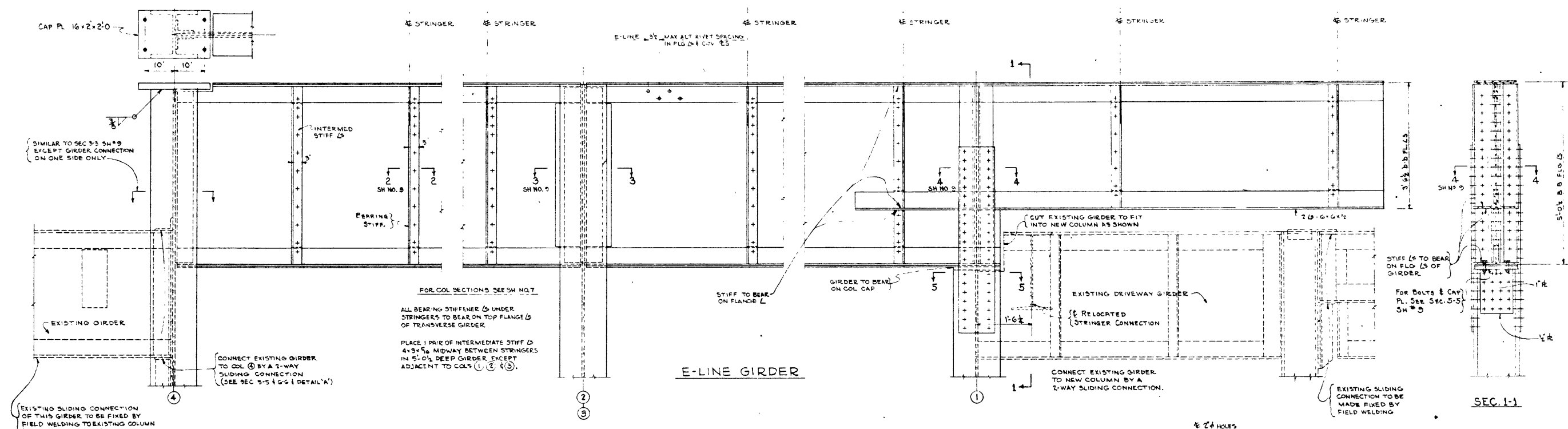
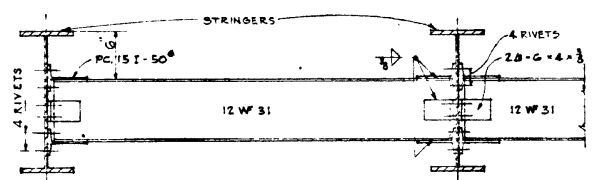


DIAGRAM ON D-LINE - D1  
AND ON F.H.I-LINES



INTERMEDIATE DIAFRAMS D-2  
BETWEEN TRANSVERSE BENTS

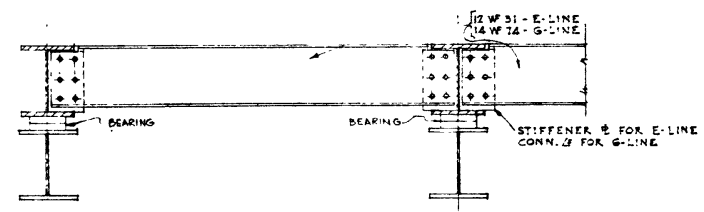
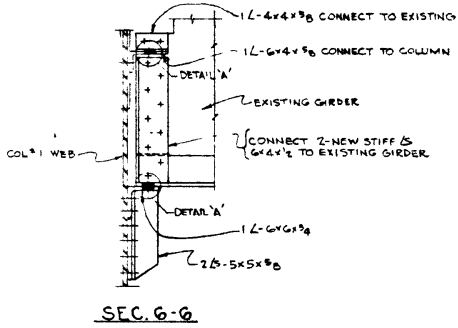
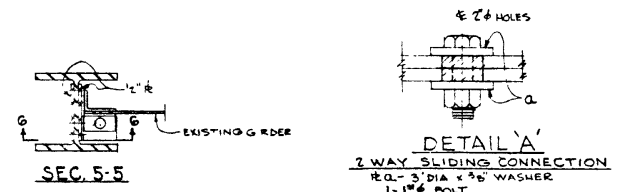


DIAGRAM AT E-LINE & G-LINE  
2 - THUS - EACH SIDE OF JOINT  
DETAILS OF DIAFRAMS  
FOR LOCATION - SEE DECK FRAMING PLAN SH NO. 6  
SCALE 1/4" = 1'-0"

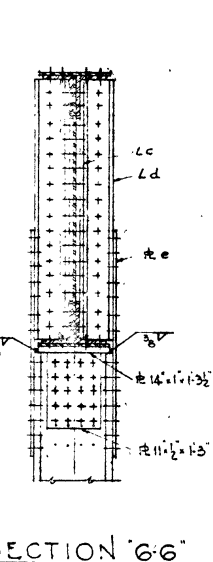
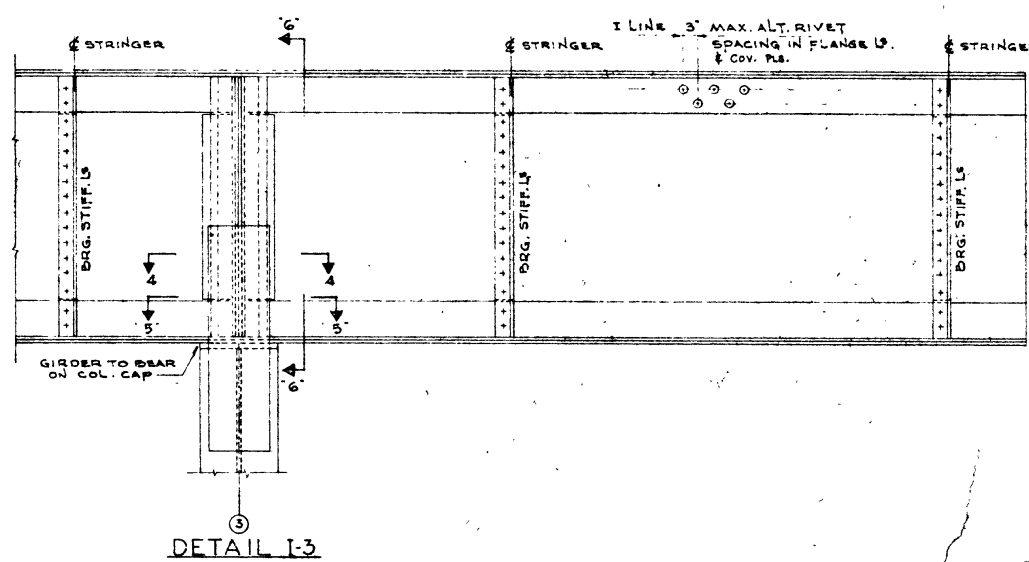
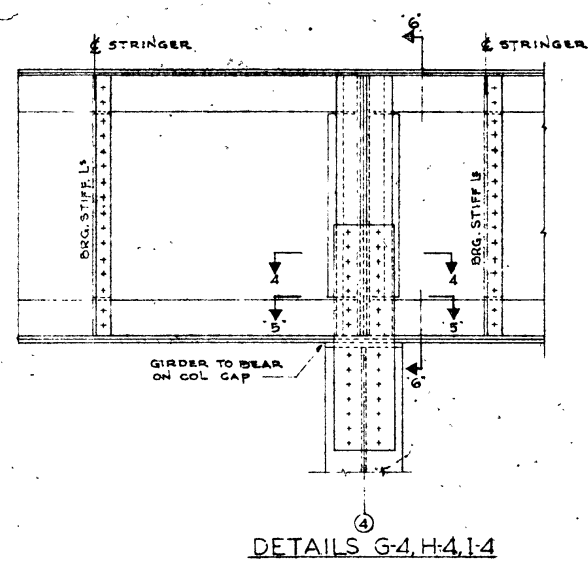
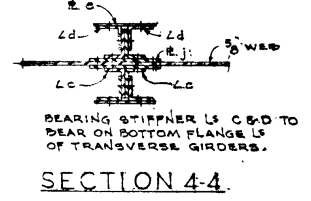
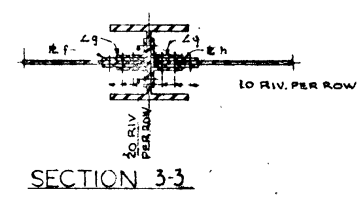
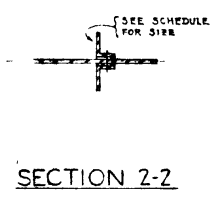
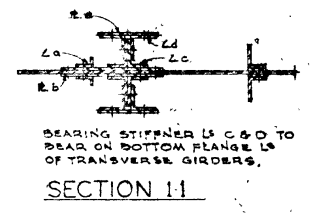
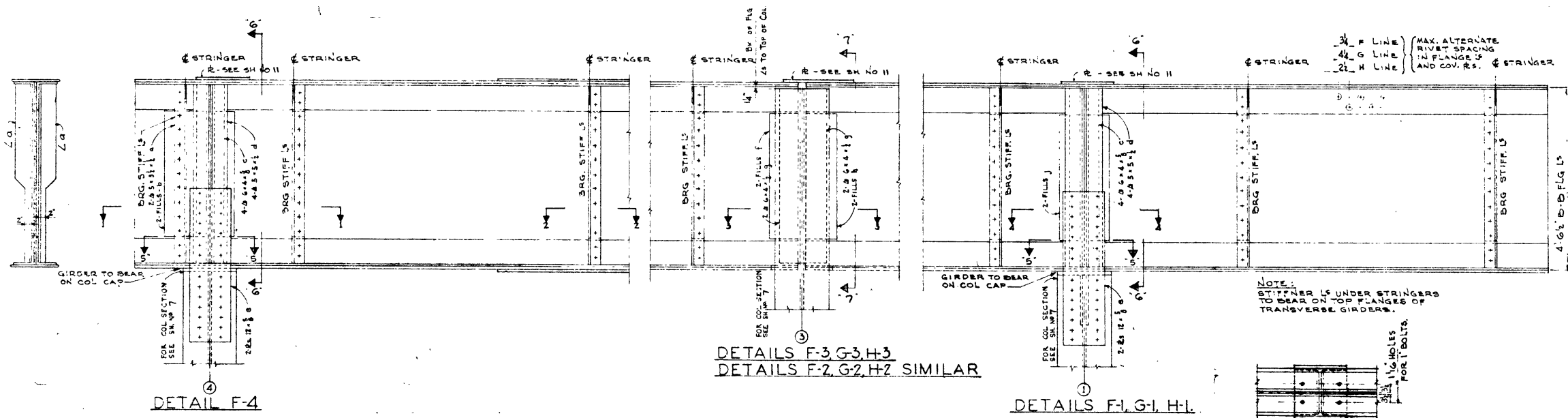


ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
EXISTING BRIDGE PLAN  
LOCATION 4  
SN 016-0460  
I-290 (Congress St.) over Post Office to River



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	25

CONTRACT NO. 60V86



LOCATION	COLUMN LINE	WEB	FLANGE ANGLES	FULL LENGTH COVER PLATES TOP & BOT.
NORTH	E	60 x 1/2	4 1/2 x 6 x 1/2 T	14 x 3/8
CENTER	E	60 x 1/2	4 1/2 x 6 x 1/2 T	14 x 3/8
SOUTH	E	60 x 1/2	4 1/2 x 6 x 1/2 T	14 x 3/8
NORTH	F	54 x 5/8	4 1/2 x 6 x 1/2 T	14 x 3/8
CENTER	F		4 1/2 x 6 x 1/2 T	14 x 3/8
SOUTH	F		4 1/2 x 6 x 1/2 T	14 x 3/8
NORTH	G		4 1/2 x 6 x 1/2 T	14 x 3/8
CENTER	G		4 1/2 x 6 x 1/2 T	14 x 3/8
SOUTH	G		4 1/2 x 6 x 1/2 T	14 x 3/8
NORTH	H		4 1/2 x 6 x 1/2 T	14 x 3/8
CENTER	H		4 1/2 x 6 x 1/2 T	14 x 3/8
SOUTH	H		4 1/2 x 6 x 1/2 T	14 x 3/8
NORTH	I		4 1/2 x 6 x 1/2 T	14 x 3/8
SOUTH	I		4 1/2 x 6 x 1/2 T	14 x 3/8
NORTH	J	54 x 5/8	4 1/2 x 6 x 1/2 T	14 x 3/8
CENTER	J	56 x 5/8	4 1/2 x 6 x 1/2 T	14 x 3/8
SOUTH	J	58 x 5/8	4 1/2 x 6 x 1/2 T	14 x 3/8
NORTH	K	48 x 5/8	3 1/2 x 6 x 1/2 T	TOP & BOT. 16 x 3/8
CENTER	K	49 x 5/8	do	do
SOUTH	K	60 x 5/8	do	do

ILLINOIS DEPARTMENT OF TRANSPORTATION

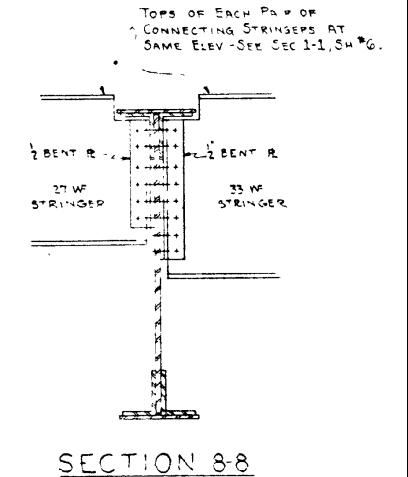
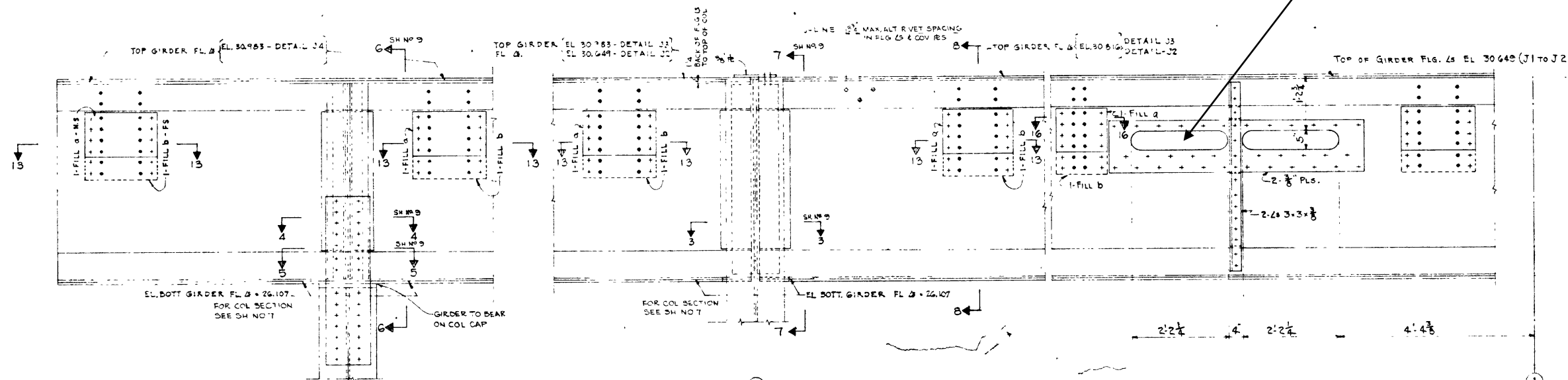
EXISTING BRIDGE PLAN  
LOCATION 4  
SN 016-0460

I-290 (Congress St.) over Post Office to River

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	26

CONTRACT NO. 60V86

OPENING FOR EXISTING CONDUITS



④  
DETAIL J-4  
DETAIL J-1 SIMILAR

③  
DETAIL J-3  
DETAIL J-2 SIMILAR

SECTION 16-16

SECTION 13-13

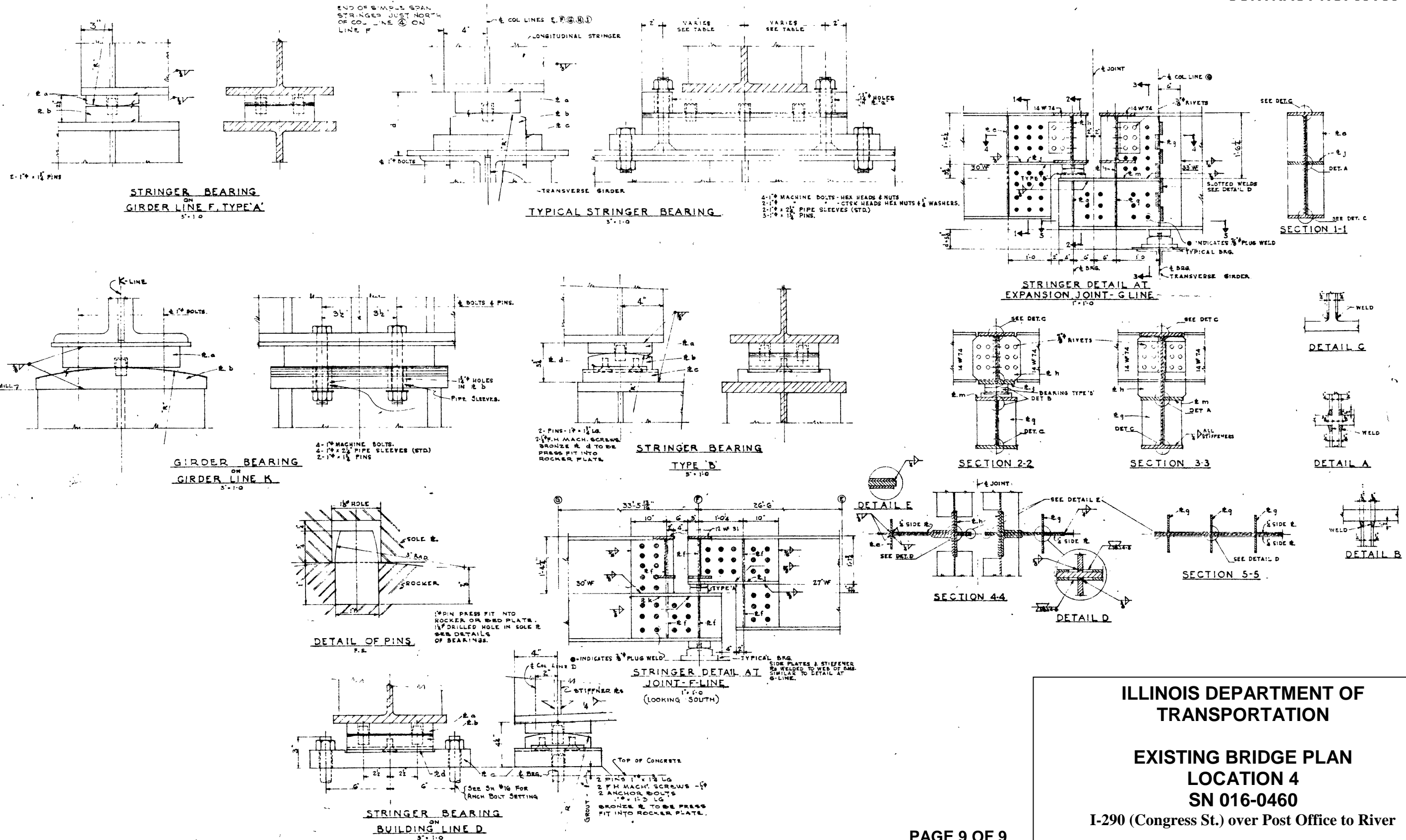
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 4  
SN 016-0460

I-290 (Congress St.) over Post Office to River

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	27

CONTRACT NO. 60V86

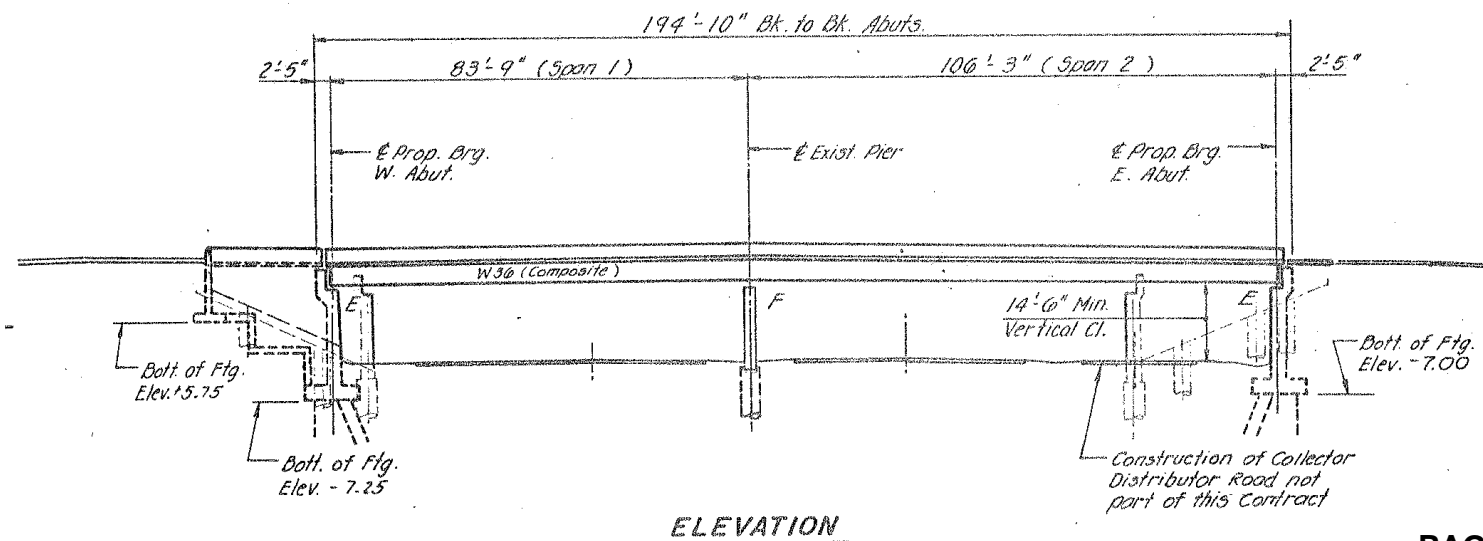
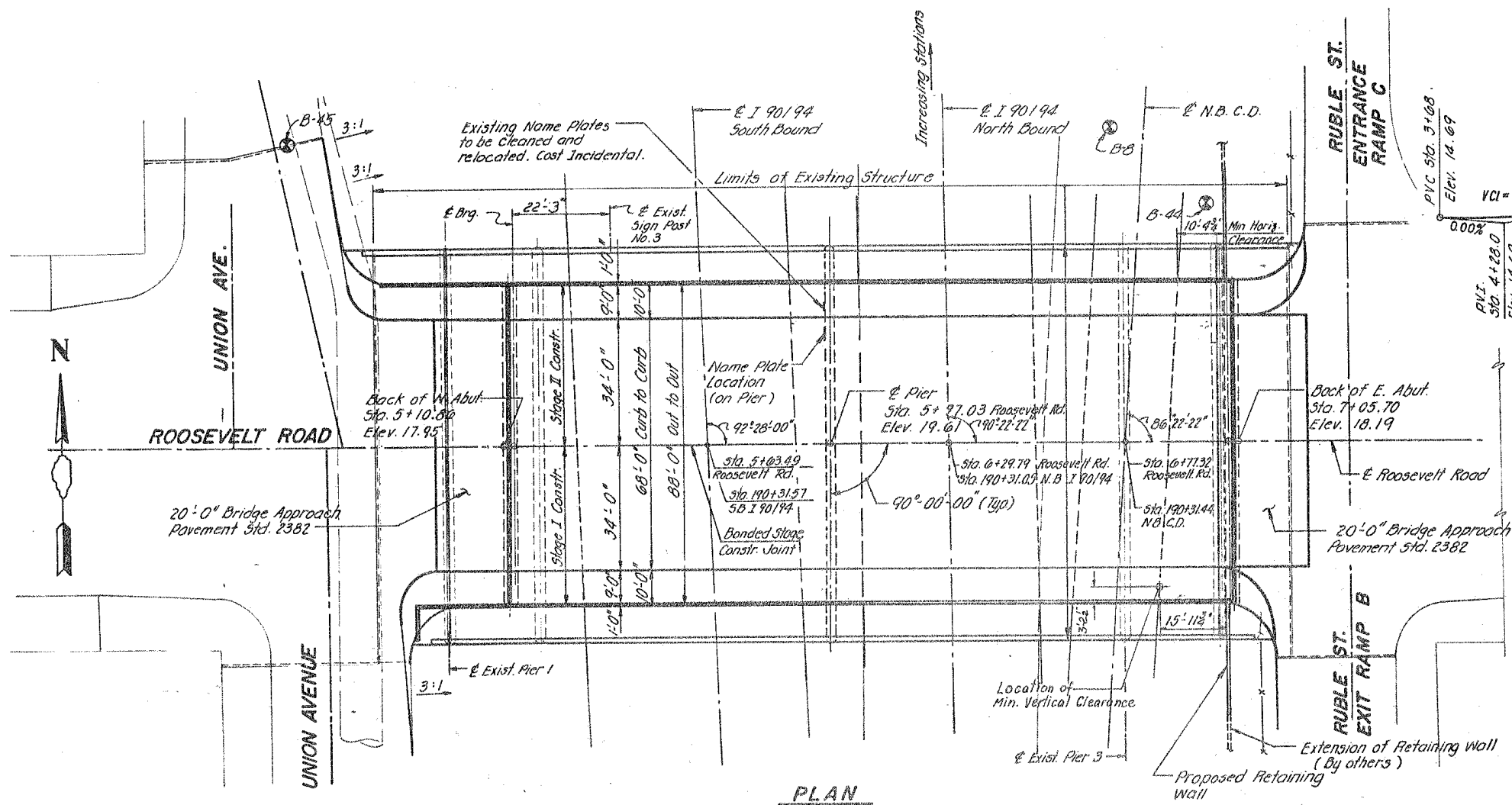


ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 4  
SN 016-0460  
I-290 (Congress St.) over Post Office to River

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	28

CONTRACT NO. 60V86



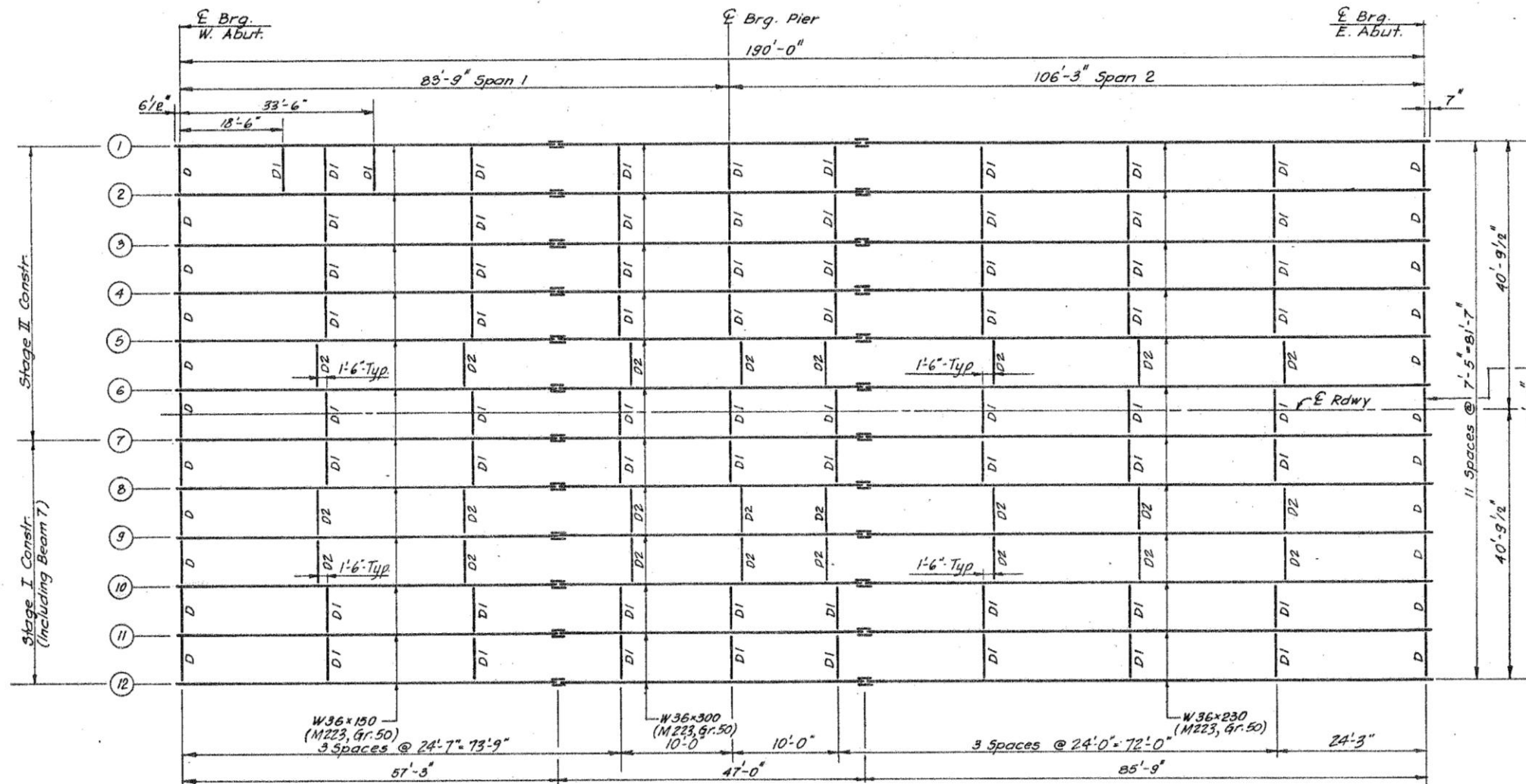
**FOR INFORMATION ONLY**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

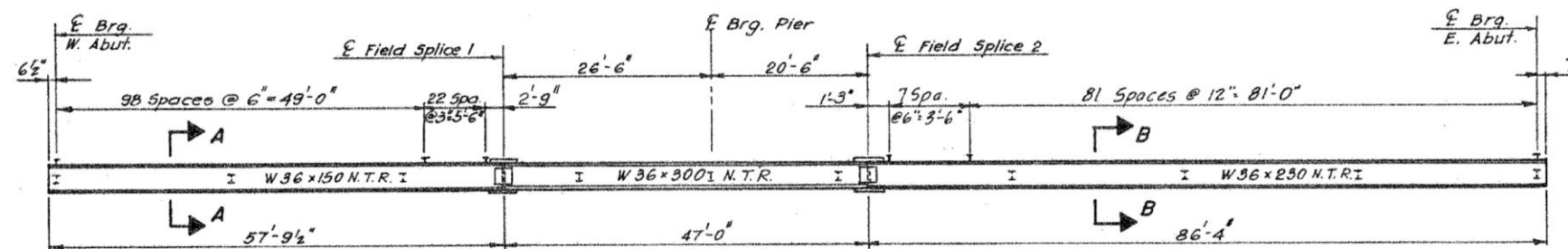
**EXISTING BRIDGE PLAN**  
**LOCATION 5**  
**SN 016-0478**  
 Roosevelt Rd. over I-90/94 Dan Ryan

<b>ROUTE</b>	<b>SECTION</b>	<b>COUNTY</b>	<b>TOTAL SHEETS</b>	<b>SHEET NUMBER</b>
VARIOUS	2012-076BP	COOK	34	29

CONTRACT NO. 60V86



**FRAMING PLAN**



**ELEVATION**

Diaphragm

D = W12 X 40

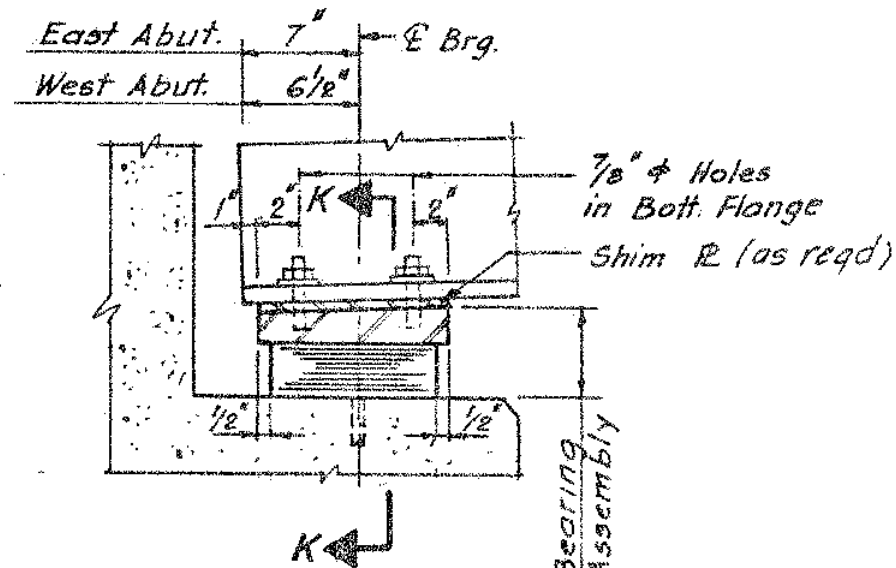
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 5  
SN 016-0478

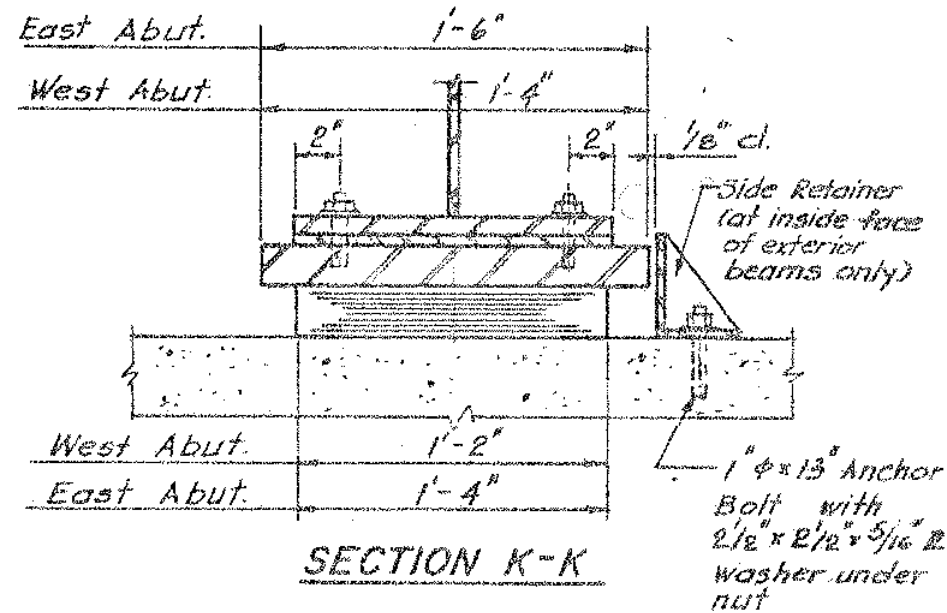
Roosevelt Rd. over I-90/94 Dan Ryan

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2012-076BP	COOK	34	30

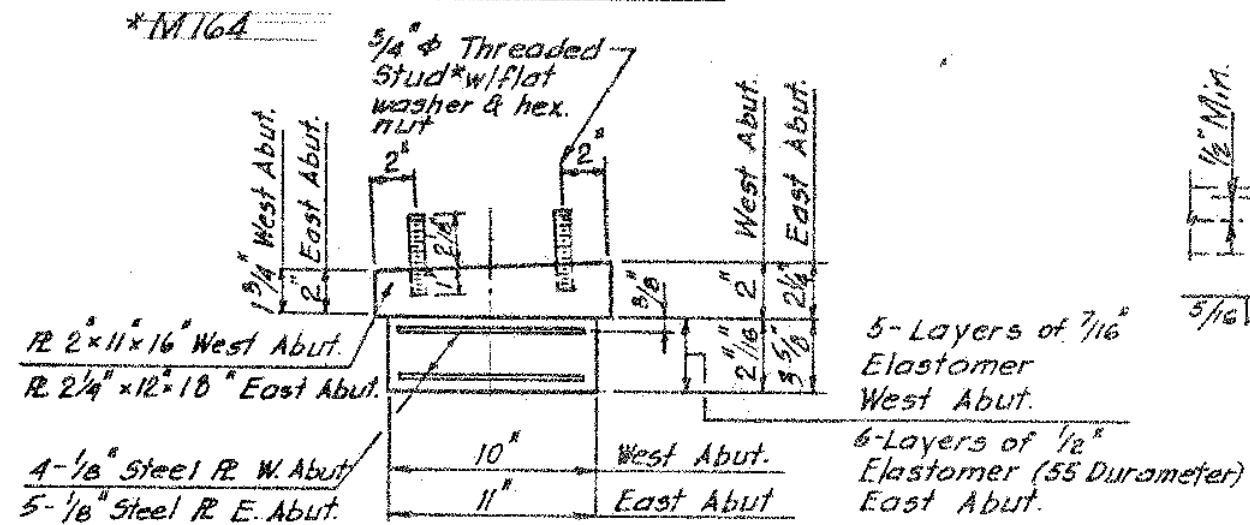
CONTRACT NO. 60V86



**ELEVATION AT ABUTS.**

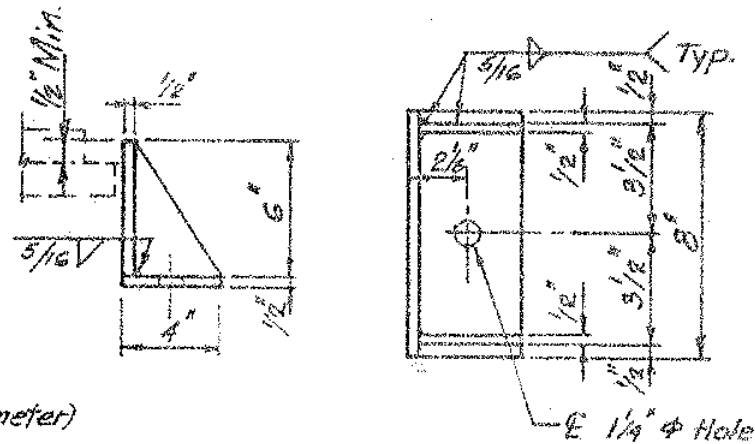


**SECTION K-K**



**BEARING ASSEMBLY**  
AASHTO M 222, Grade 50

**TYPE I ELASTOMERIC EXP. BRG.**



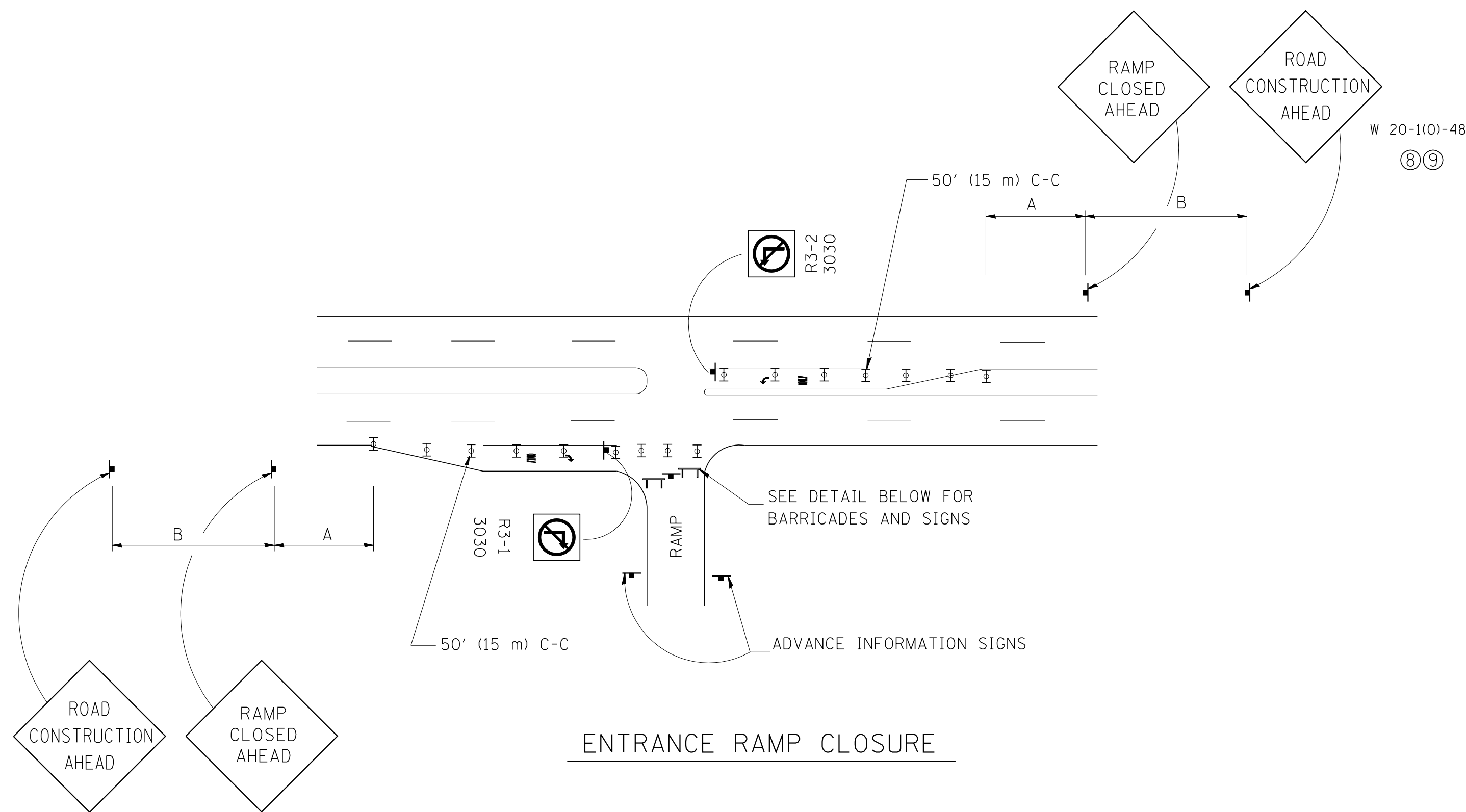
**SIDE RETAINER**

Rolled L with stiffeners may be used in lieu of welded R's.

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
LOCATION 5  
SN 016-0478

Roosevelt Rd. over I-90/94 Dan Ryan



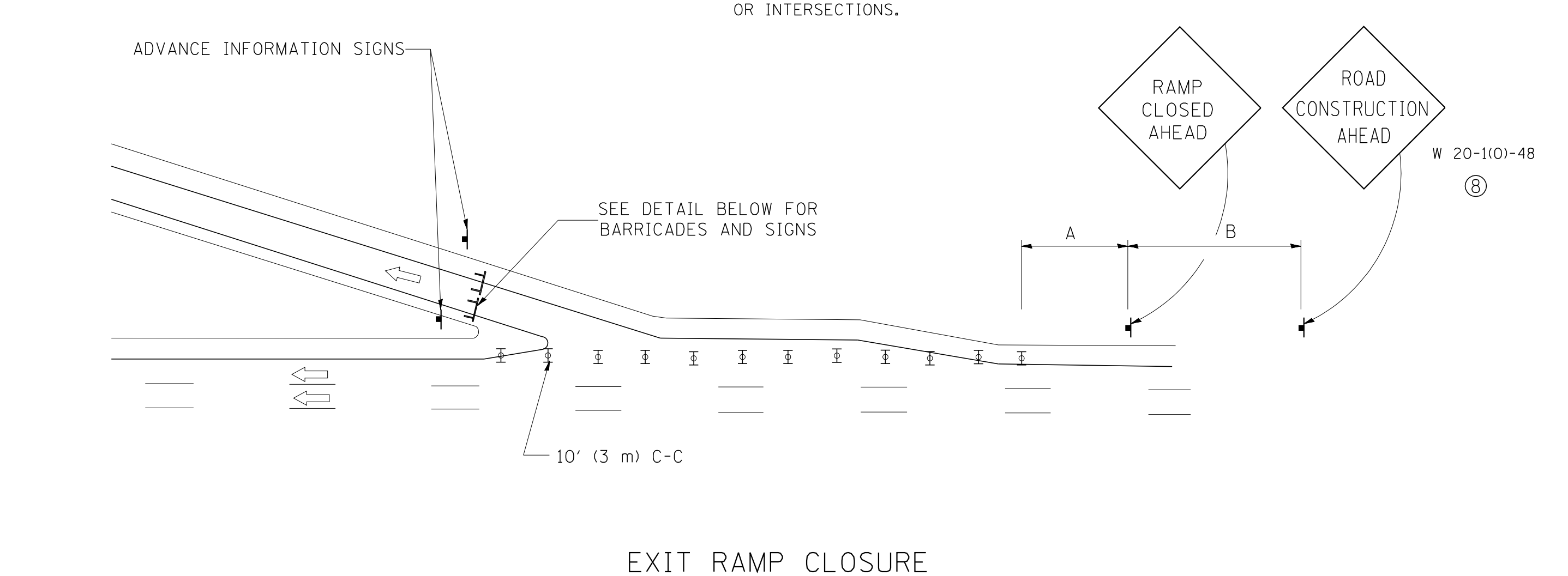
ENTRANCE RAMP CLOSURE

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)

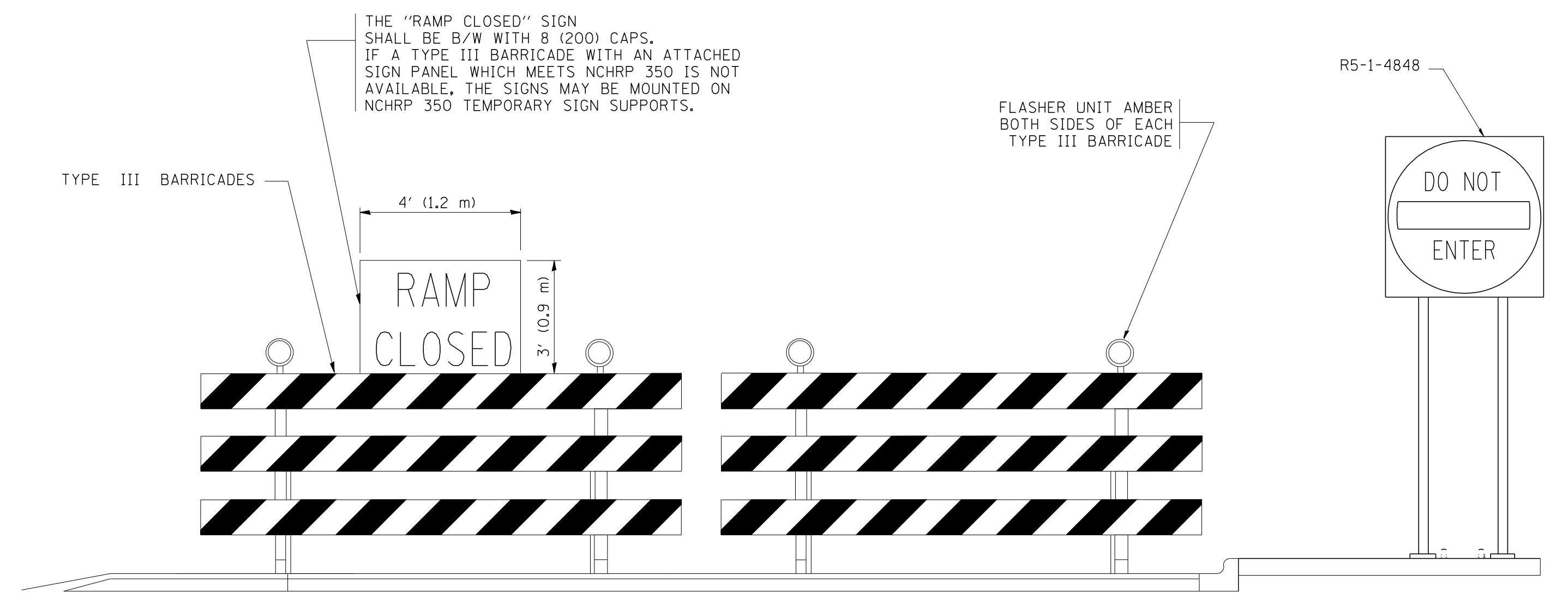
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-110-48 (8)9

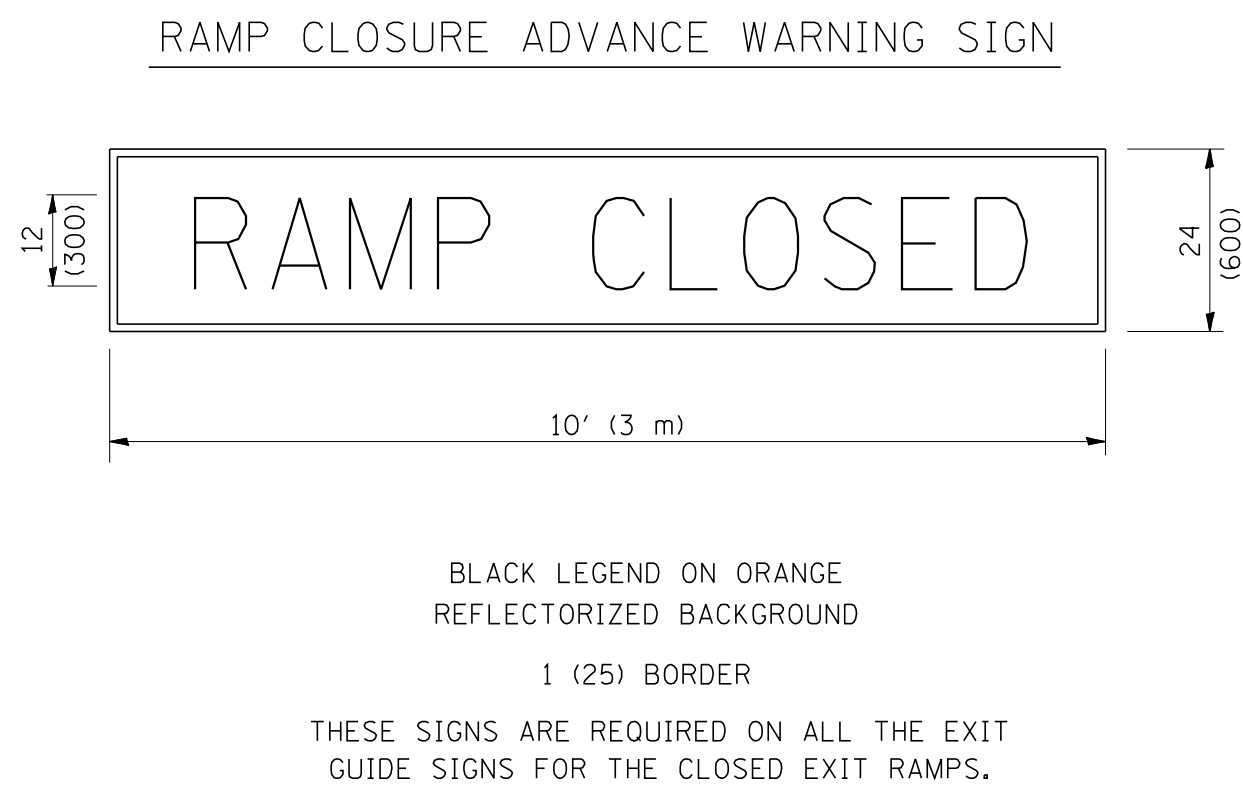


EXIT RAMP CLOSURE

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

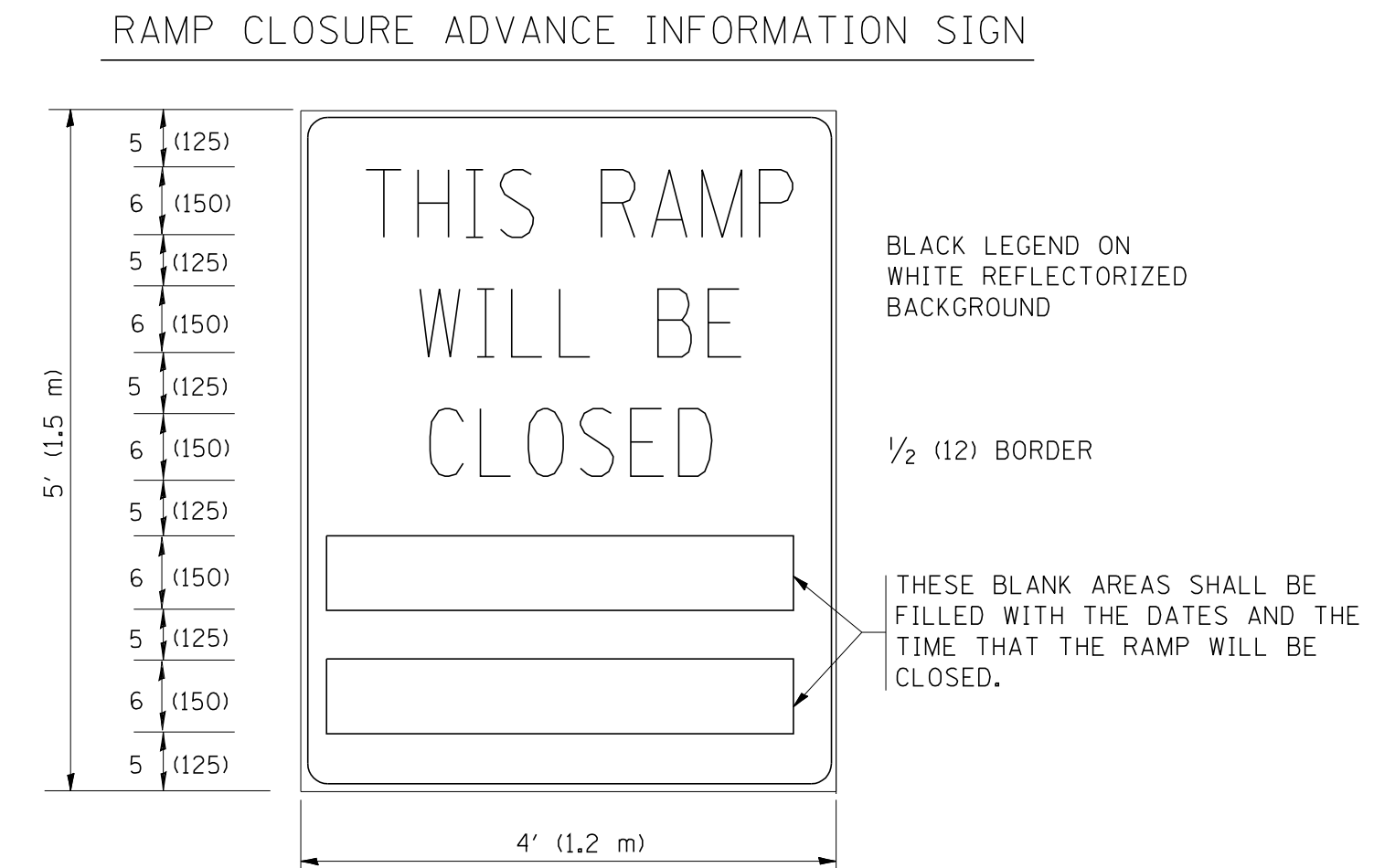


DETAIL FOR REQUIRED BARRICADES & SIGNS



RAMP CLOSURE ADVANCE WARNING SIGN

BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.



RAMP CLOSURE ADVANCE INFORMATION SIGN

BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
1/2 (12) BORDER  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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

**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.

FILE NAME = W:\dststd\22x34\to08.dgn	USER NAME = lqyso	DESIGNED - DWS	REVISED - DWS/JAF 12-02
		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 11/3/2010	DATE - 02-83	REVISED - SPB 12-09

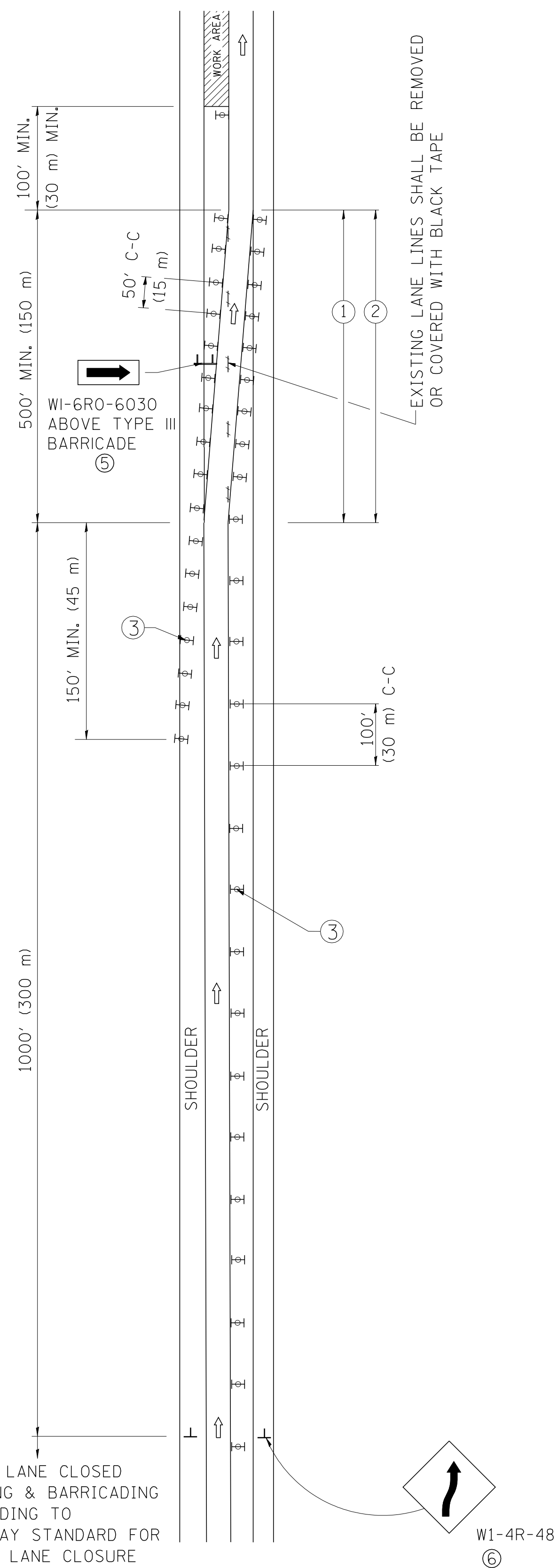
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FREeway ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS

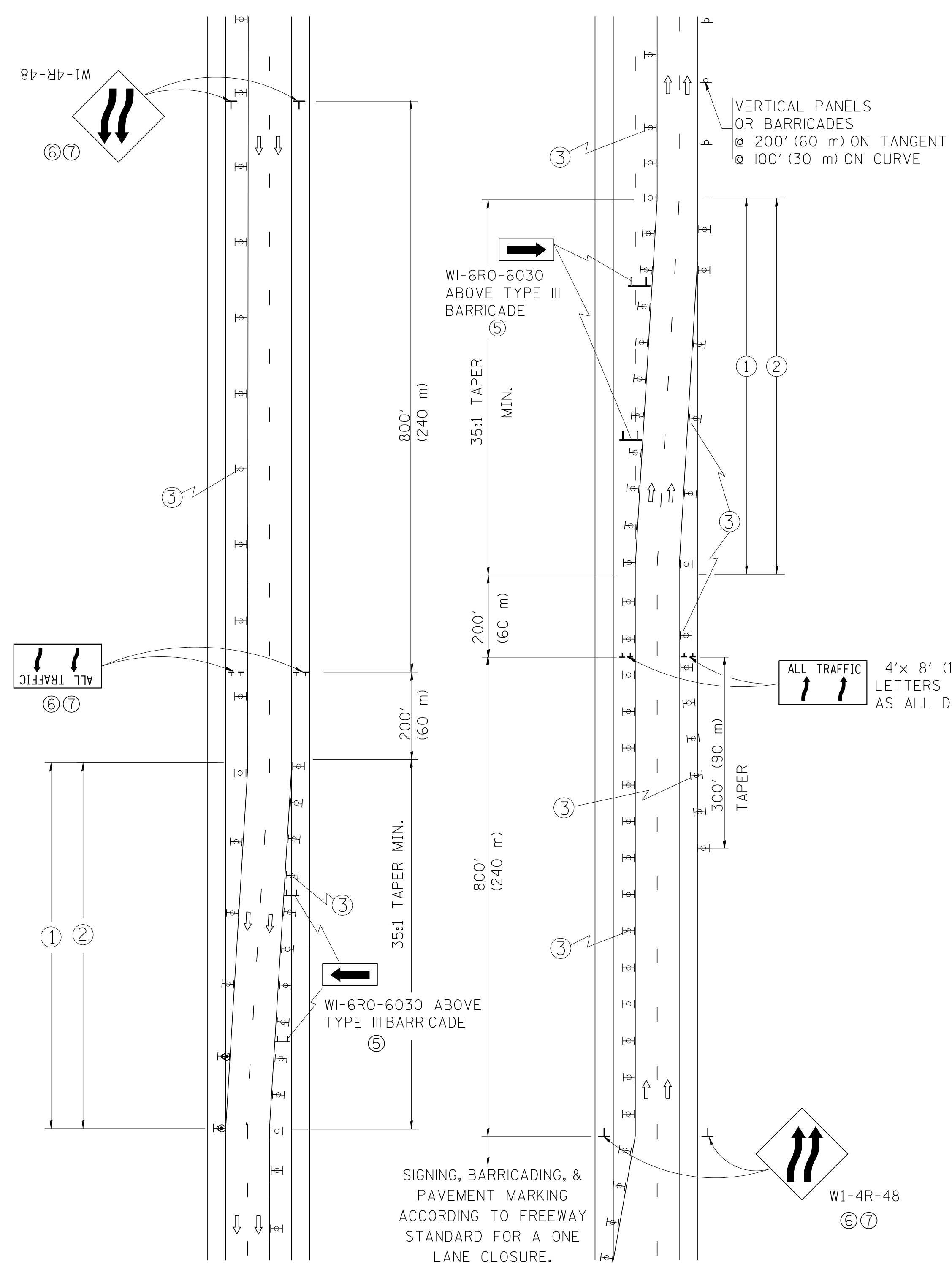
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2012-076BP	COOK	34	31
TC-08		CONTRACT NO. 60V86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② 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.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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. W1-6 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.
- ⑥ 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.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\dststd\22x34\to09.dgn

USER NAME = lqyso  
 PLOT SCALE = 50.000' / IN.  
 PLOT DATE = 1/26/2010

DESIGNED - DWS  
 DRAWN -  
 CHECKED -  
 DATE - 02-87

REVISED - JAF 01-03  
 REVISED - JAF 02-06  
 REVISED - SPB 01-07  
 REVISED - SPB 12-09

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

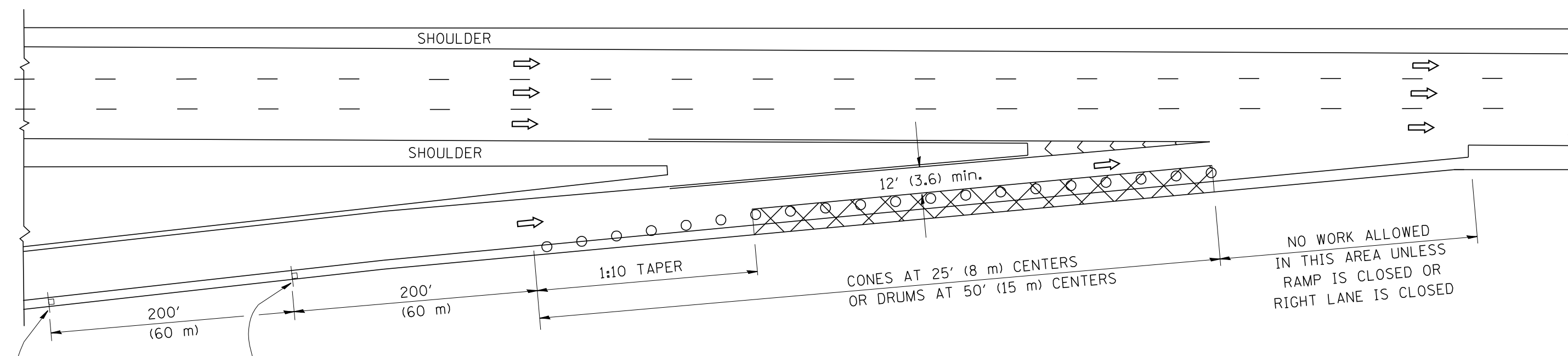
**TRAFFIC CONTROL DETAILS FOR  
 FREEWAY SINGLE & MULTI-LANE WEAVE**  
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-09		CONTRACT NO. 60V86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

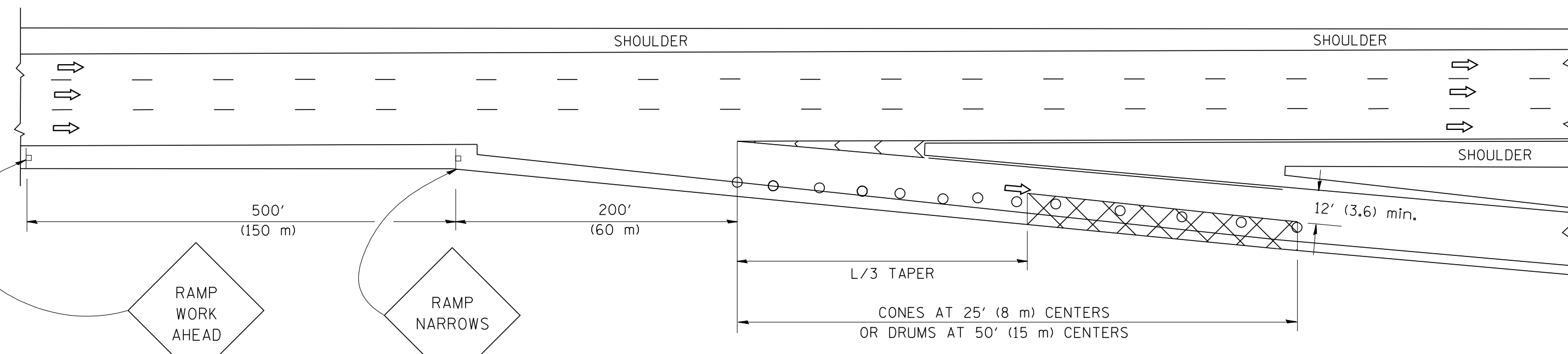


PARTIAL RAMP CLOSURE DETAILS

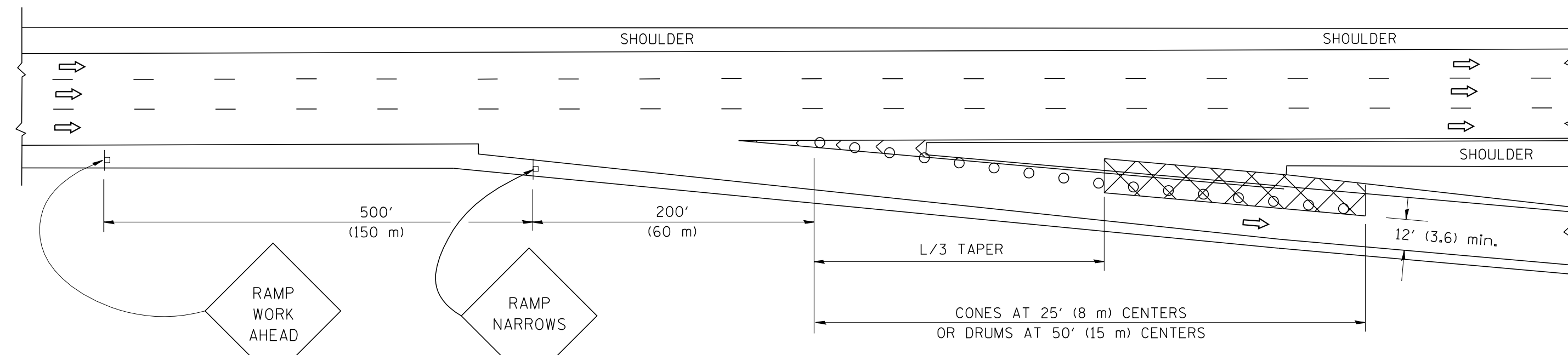
SHOULDER CLOSURE DETAILS



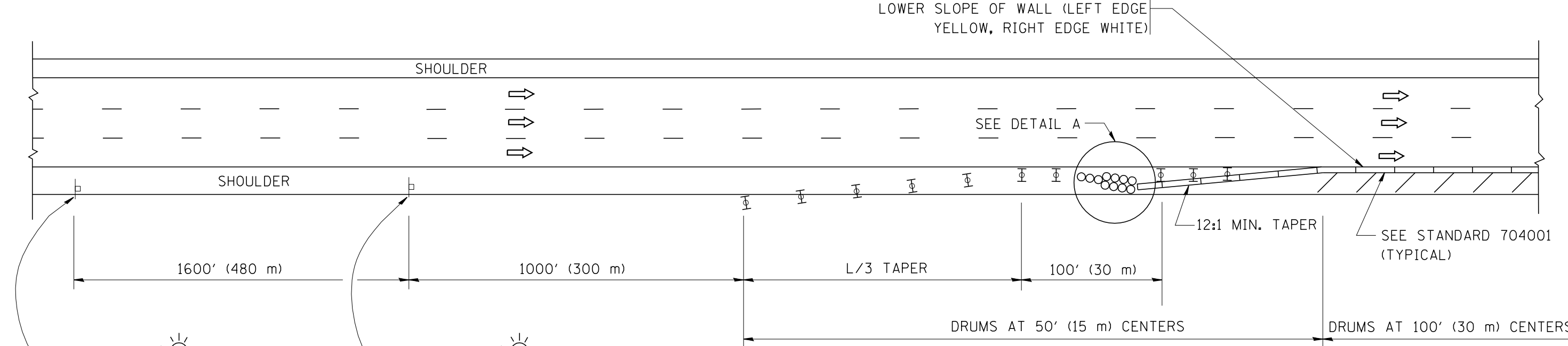
TYPICAL ENTRANCE RAMP



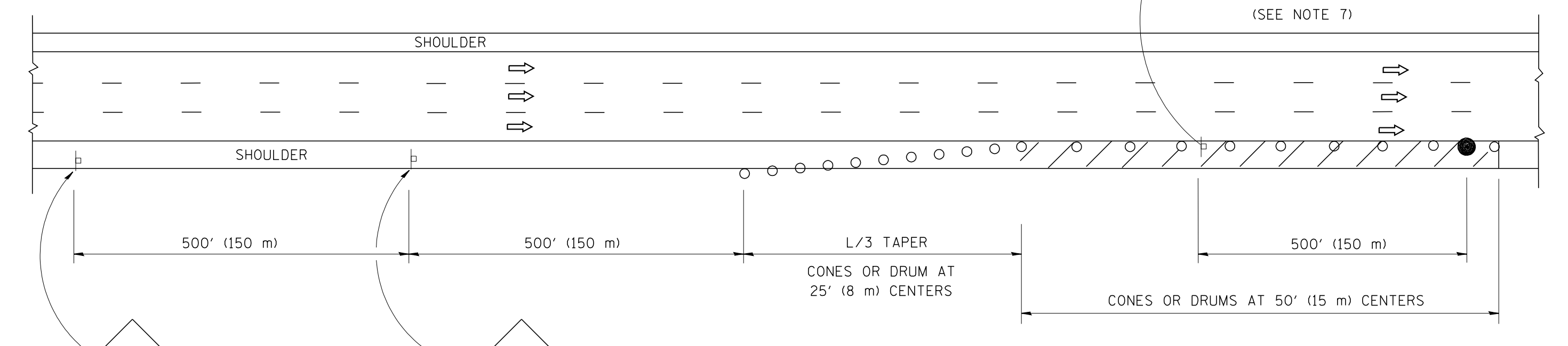
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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(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 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.

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 AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

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

FILE NAME = W:\dststd\22x34\to17.dgn	USER NAME = lqjso	DESIGNED -	REVISED - 04-03
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/26/2010	DATE - 11-96	REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2012-076BP	COOK	34	33
TC-17		CONTRACT NO. 60V86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

