

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54 - 1 = 53	1

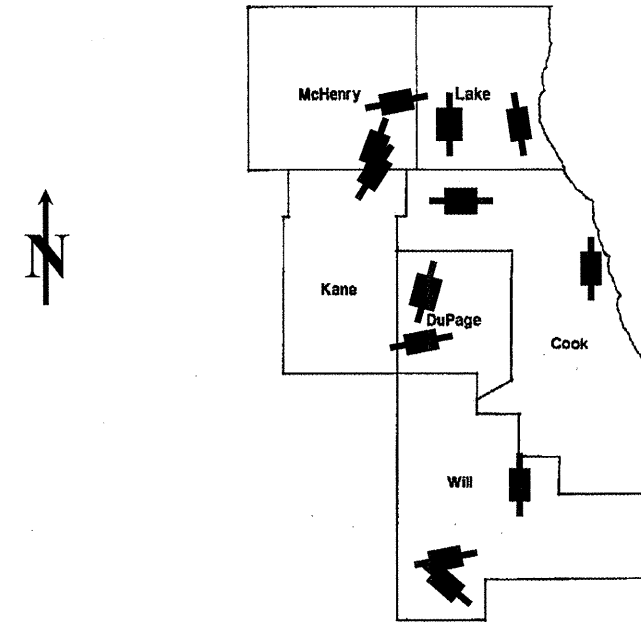
FOR INDEX OF SHEETS SEE SHEET 2

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

CONTRACT NO. 60F04
D-91-566-08

IMPROVEMENTS ARE LOCATED IN THE
VILLAGES OF ALGONQUIN AND NEW
LENOX, THE CITIES OF CHICAGO, NORTH
CHICAGO, WEST CHICAGO, AND
WILMINGTON, AND MCHENRY,
WAUCONDA, NAPERVILLE, HANOVER, AND
CUSTER TOWNSHIPS

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION 2008-053 BP
BRIDGE PAINTING
VARIOUS COUNTIES
C-91-566-08



LOCATION OF IMPROVEMENT INDICATED THUS:

- LOCATION 1) SN 056-0015
- LOCATION 2) SN 056-0016
- LOCATION 3) SN 056-0049
- LOCATION 4) SN 049-0012
- LOCATION 5) SN 049-0022, -0023
- LOCATION 6) SN 022-0022
- LOCATION 7) SN 022-0038
- LOCATION 8) SN 016-0133
- LOCATION 9) SN 016-0948
- LOCATION 10) SN 099-0091
- LOCATION 11) SN 099-0171
- LOCATION 12) SN 099-0203

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
 SUBMITTED: FEBRUARY 13, 2009
Diane M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 27, 2009
Charles J. Ingersoll
 ENGINEER OF DESIGN AND ENVIRONMENT
March 27, 2009
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

C.U.A.N.: CHICAGO UTILITY ALERT
 NETWORK (312) 744-7000

PROJECT ENGINEER ROBERT BORO (847) 705-4178
PROJECT MANAGER KEN ENG

CONTRACT NO. 60F04

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	2

Contract 60F04

INDEX OF SHEETS

STATE STANDARDS

1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS
3	GENERAL NOTES
4-5	GENERAL PAINT NOTES
6	SUMMARY OF QUANTITIES
7-17	LOCATION MAPS
18	DELETED
19	EXISTING BRIDGE PLANS (SN 056-0015: LOCATION 1)
20-21	EXISTING BRIDGE PLANS (SN 056-0016: LOCATION 2)
22-24	EXISTING BRIDGE PLANS (SN 056-0049: LOCATION 3)
25-26	EXISTING BRIDGE PLANS (SN 049-0012: LOCATION 4)
27-29	EXISTING BRIDGE PLANS (SN 049-0022, -0023: LOCATION 5)
30-32	EXISTING BRIDGE PLANS (SN 022-0022: LOCATION 6)
33-37	EXISTING BRIDGE PLANS (SN 022-0038: LOCATION 7)
38-41	EXISTING BRIDGE PLANS (SN 016-0133: LOCATION 8)
42-44	EXISTING BRIDGE PLANS (SN 016-0948: LOCATION 9)
45-46	EXISTING BRIDGE PLANS (SN 099-0091: LOCATION 10)
47-48	EXISTING BRIDGE PLANS (SN 099-0171: LOCATION 11)
49-50	EXISTING BRIDGE PLANS (SN 099-0203: LOCATION 12)
51	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
52	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
53	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
54	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOUDLER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)

701006-03	2L, 2W, OFF-ROAD OPERATION, 15' to 24" FROM PAVEMENT EDGE
701101-02	MULTILANE, OFF-ROAD OPERATIONS, 15' TO 24" FROM PAVEMENT EDGE
701106-02	MULTILANE, OFF-ROAD OPERATIONS, MORE THAN 15' FROM PAVEMENT EDGE
701301-03	2L, 2W, LANE CLOSURE, SHORT TIME OPERATIONS
701400-03	FREEWAY/EXPRESSWAY, APPROACH TO LANE CLOSURE
701401-05	FREEWAY/EXPRESSWAY, LANE CLOSURE
701411-05	MULTILANE, LANE CLOSURE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701426-03	MULTILANE, LANE CLOSURE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS ≥ 45 MPH
701446-01	FREEWAY/EXPRESSWAY, TWO LANE CLOSURE
701601-03	MULTILANE, LANE CLOSURE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701606-06	MULTILANE, URBAN LANE CLOSURE, 2W WITH MOUNTABLE MEDIAN
701801-04	MULTILANE, LANE CLOSURE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS

Rev.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	3

CONTRACT NO. 60F04

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 HOUR 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 CITIES OF CHICAGO, NORTH CHICAGO, WEST CHICAGO, AND THE VILLAGES OF ALGONQUIN AND NEW LENOX.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

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) 705-4470 (FOR ARTERIALS) OR (847)705-4151 (FOR EXPRESSWAYS). 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.

THE "ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	4

Contract 60F04

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 FOUR (4) AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS PER LOCATIONS 3 (SN 056-0049), 4 (SN 049-0012), 6 (SN 022-0022), 8 (SN 016-0133), AND TWO (2) AIR MONITORS PER LOCATIONS 5 (SN 049-0022,-0023), 7 (SN 022-0038), 9 (SN 016-0948), 10 (SN 099-0091), 11 (SN 099-0171), AND 12 (SN 099-0203). SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

AT LOCATIONS 1 (SN 056-0015) AND 2 (SN 056-0016) CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

THE SSPC-QP1 AND SSPC-QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THESE BRIDGES.

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. LOCATIONS 1 (SN 056-0015) & 10 (SN 099-0091): THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL MATCH THE FEDERAL COLOR STANDARD 595a 20045. ALL OTHER LOCATIONS: THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1. 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.

LOCATIONS 2 (SN 056-0016), 3 (SN 056-0049), 4 (SN 049-0012), 5 (SN 049-0022,-0023), 6 (SN 022-0022), 9 (SN 016-0984), 11 (SN 099-0171) AND 12 (SN 099-0203)

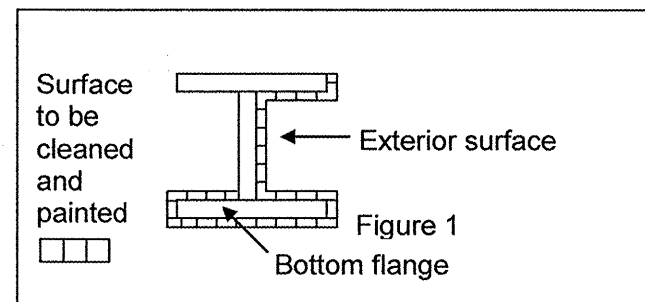
ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF THE DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED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

LOCATION 7 (SN 022-0038)

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

LOCATIONS 1 (SN 056-0015) AND 10 (SN 099-0091)

ALL BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF THE DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.



FASCIA BEAM PAINTING DETAIL
FIGURE 1

SHEET 1 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PAINT NOTES

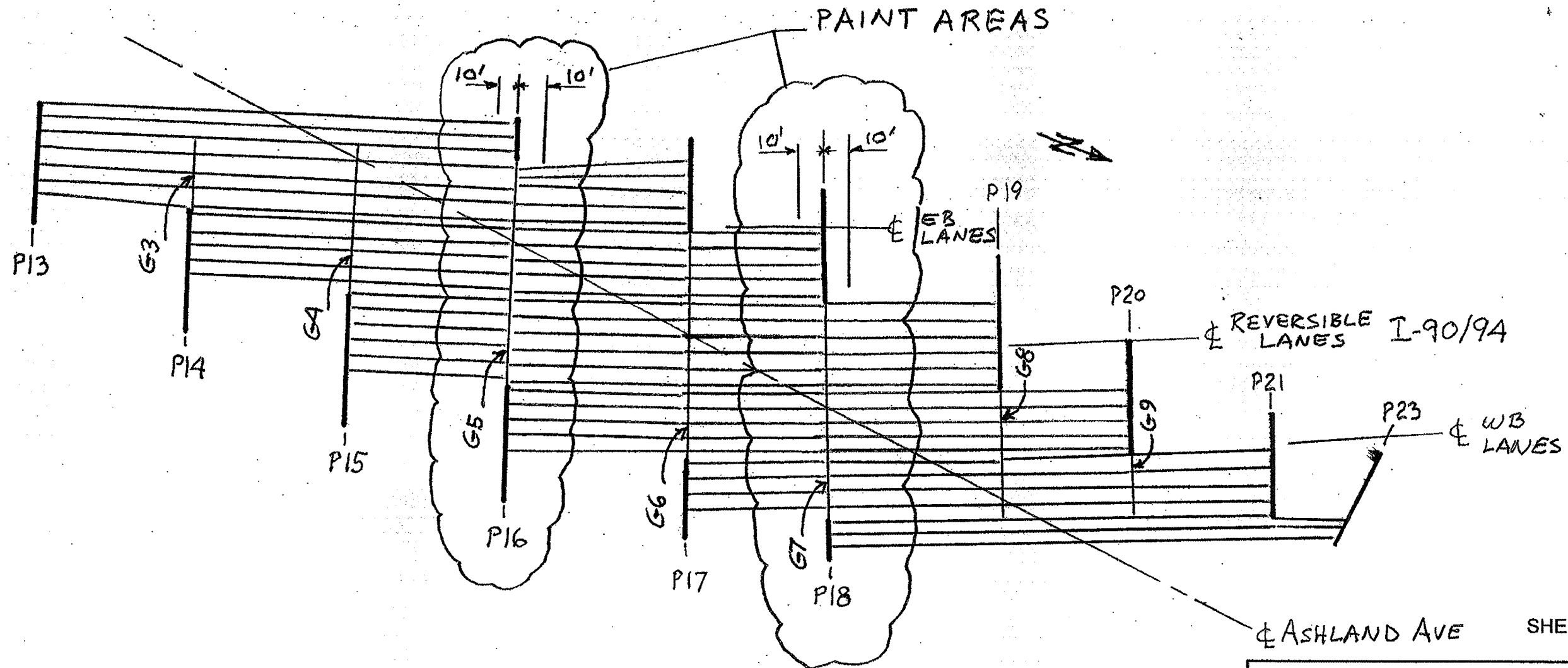
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	5

GENERAL NOTES FOR PAINT

Contract 60F04

LOCATION 8 (SN 016-0133)

ALL GIRDER AND STRINGER ENDS, DIAPHRAGMS, CROSS FRAMES, BRACING, AND STIFFENERS WITHIN TEN (10) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF PIER 16 (INCLUDING CROSS GIRDER G-5) AND PIER 18 (INCLUDING CROSS GIRDER G-7), SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.



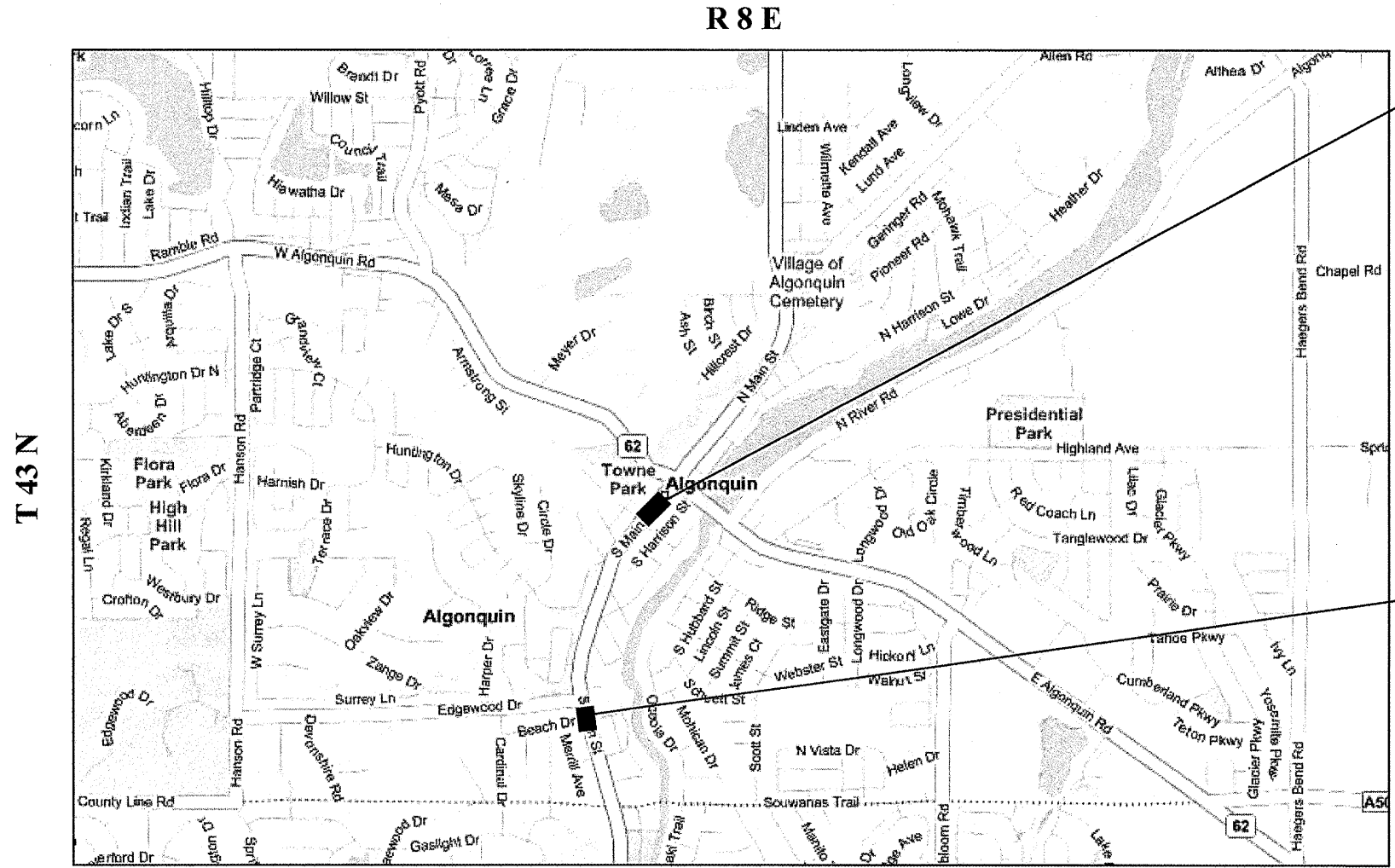
LOCATION 8 - PAINT AREAS
SN 016-0133

ASHLAND AVE SHEET 2 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PAINT NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	7

CONTRACT NO. 60F04



LOCATION 1:
SN 056-0015
 IL 31 OVER CRYSTAL LAKE
 OVERFLOW
VILLAGE OF ALGONQUIN



LOCATION 2:
SN 056-0016
 IL 31 OVER EDGEWOOD RAVINE
VILLAGE OF ALGONQUIN

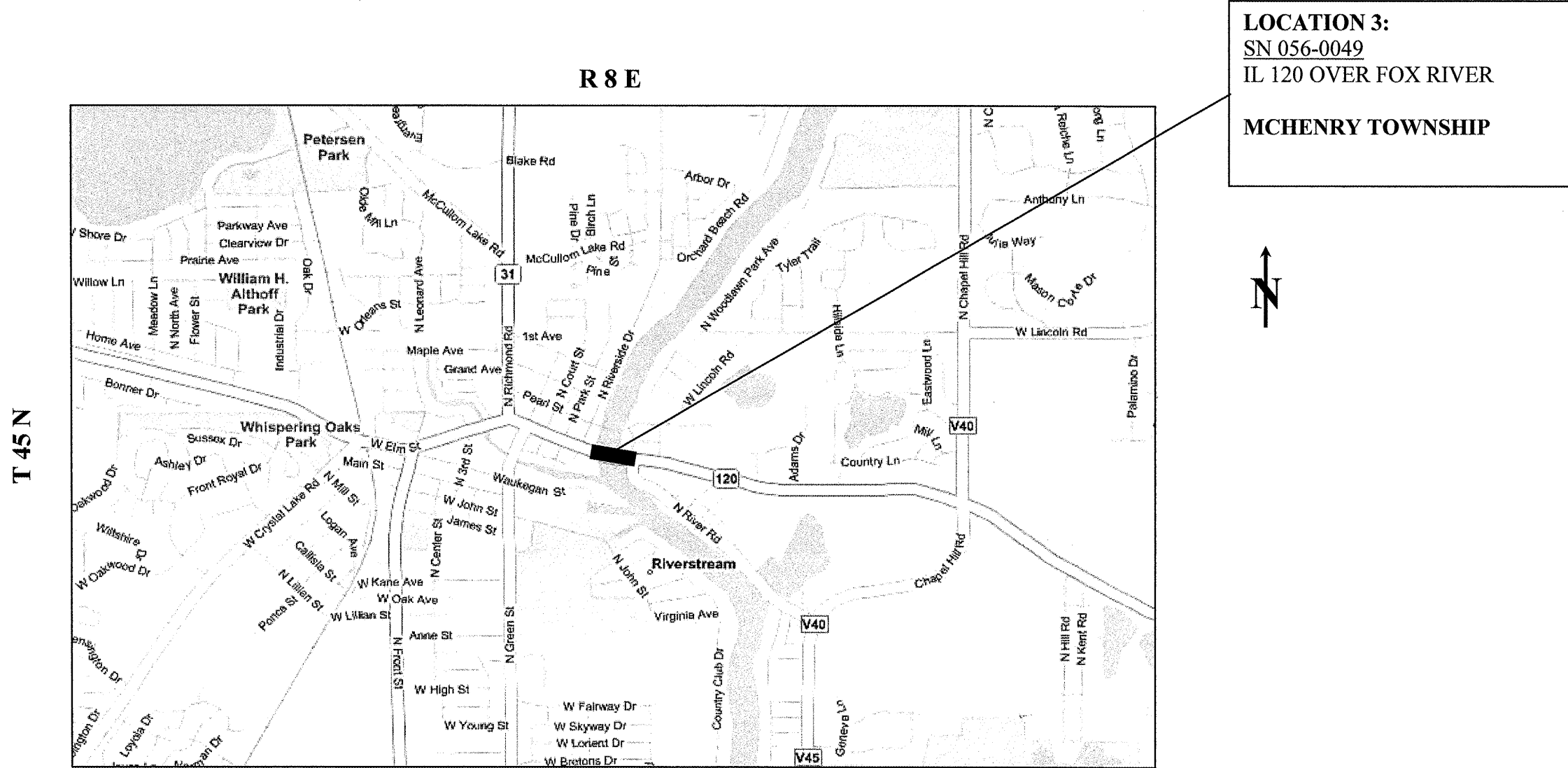
**ALGONQUIN TOWNSHIP
 MCHENRY COUNTY**

TRAFFIC DATA: IL 31
 2007 ADT = 17,300
 POSTED SPEED LIMIT = 45 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION MAPS
 LOCATION 1: IL 31 OVER CRYSTAL LAKE OVERFLOW
 LOCATION 2: IL 31 OVER EDGEWOOD RAVINE

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	8

CONTRACT NO. 60F04



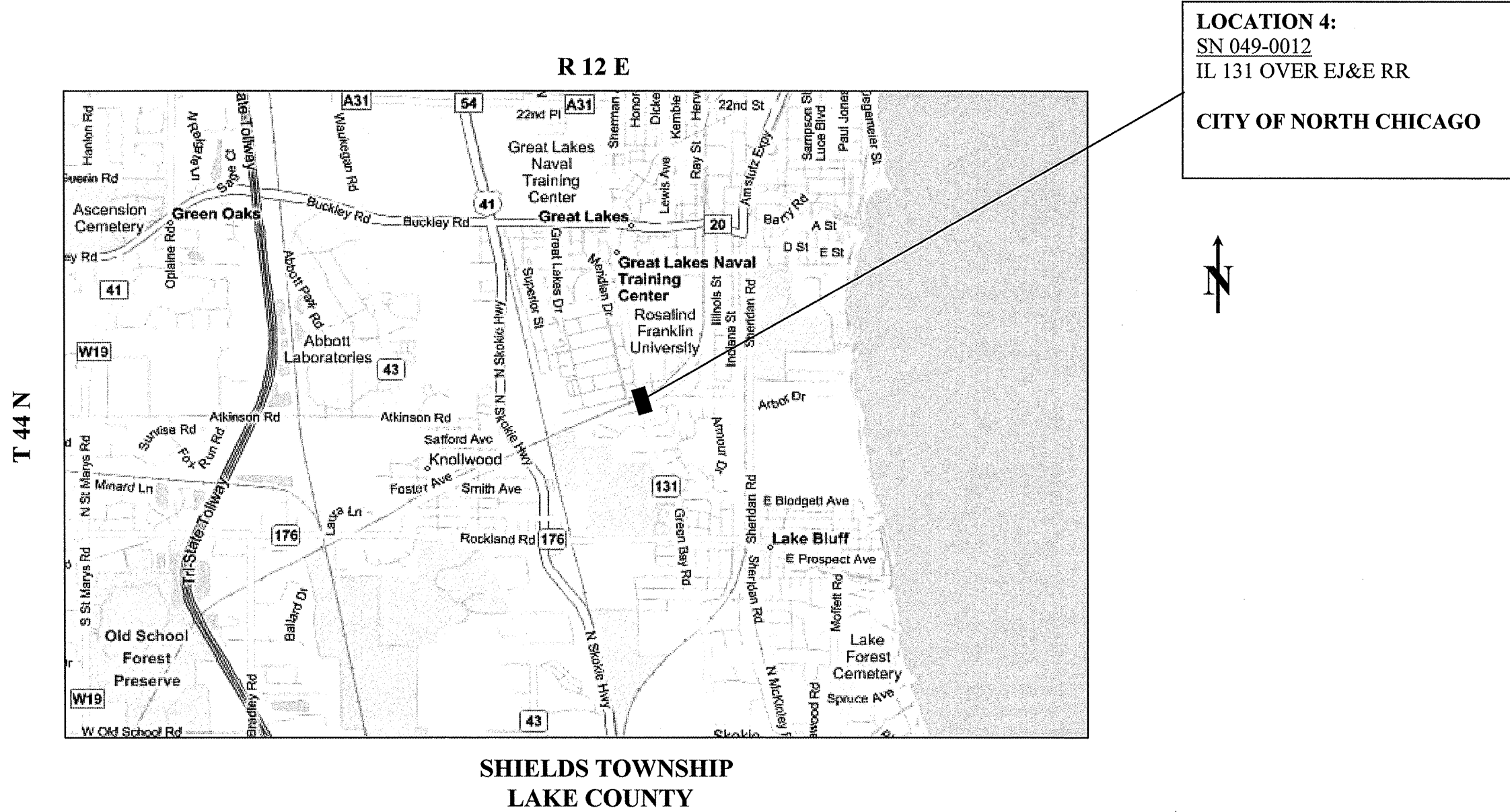
MCHENRY TOWNSHIP
MCHENRY COUNTY

TRAFFIC DATA: IL 120	
2007 ADT	= 20,600
POSTED SPEED LIMIT	= 30 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION MAPS
LOCATION 3: IL 120 OVER FOX RIVER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	9

CONTRACT NO. 60F04



LOCATION 4:
SN 049-0012
 IL 131 OVER EJ&E RR
CITY OF NORTH CHICAGO



TRAFFIC DATA: IL 131

2007 ADT = 11,800
 POSTED SPEED LIMIT = 40 MPH

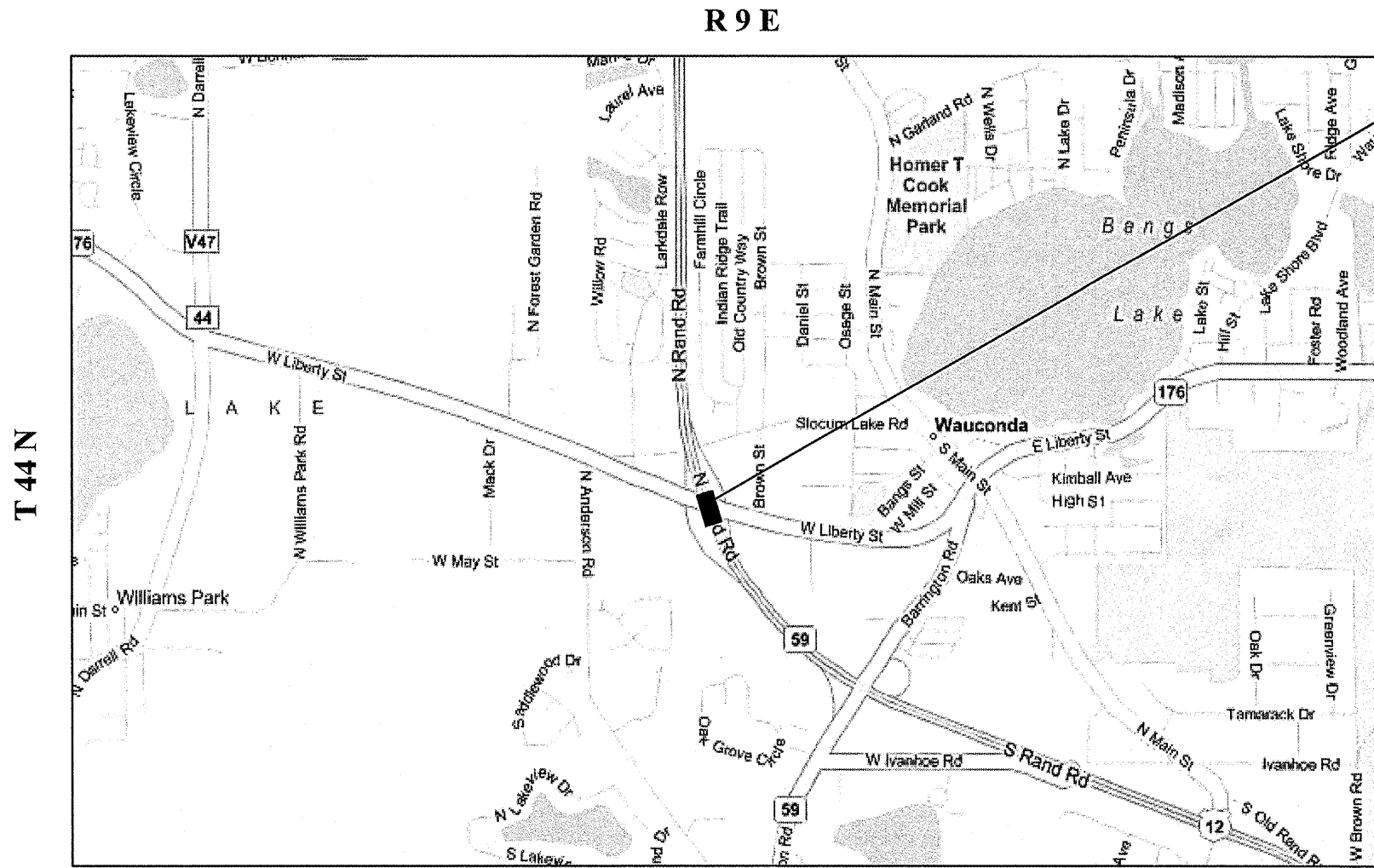
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION MAPS

LOCATION 4: IL 131 OVER EJ&E RR

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	10

CONTRACT NO. 60F04



LOCATION 5:
 SN 049-0022, -0023
 US 12/IL 59 (RAND RD.) NB &
 SB OVER IL 176
WAUCONDA TOWNSHIP

**WAUCONDA TOWNSHIP
 LAKE COUNTY**

TRAFFIC DATA: US 12

2007 ADT = 18,950
 POSTED SPEED LIMIT = 55 MPH

TRAFFIC DATA: IL 176

2007 ADT = 20,000
 POSTED SPEED LIMIT = 30 MPH

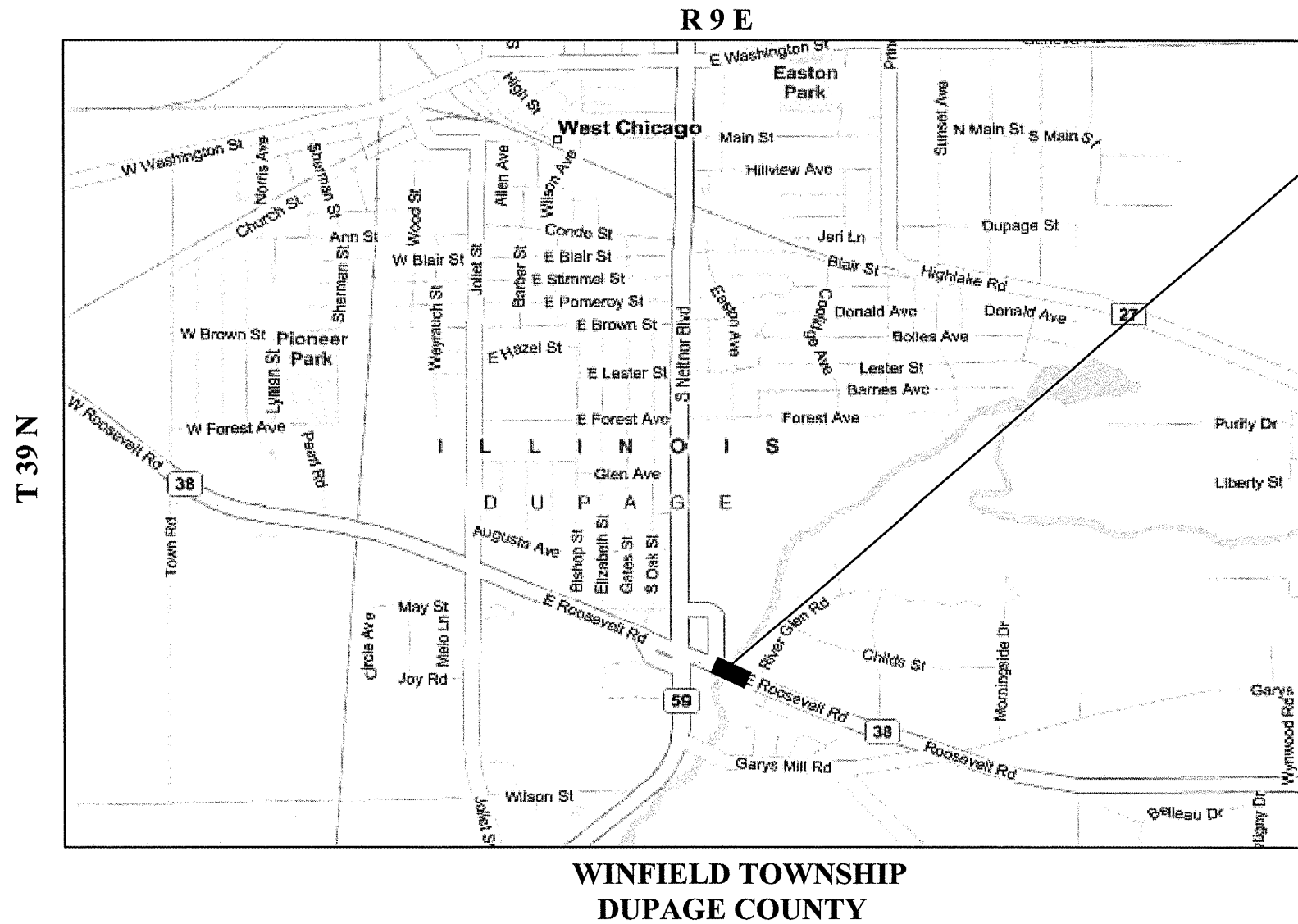
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION MAPS

LOCATION 5: US 12 NB & SB OVER IL 176

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	11

CONTRACT NO. 60F04



LOCATION 6:
 SN 022-0022
 IL 38 (ROOSEVELT RD.) OVER W.
 BR. DUPAGE RIVER
CITY OF WEST CHICAGO

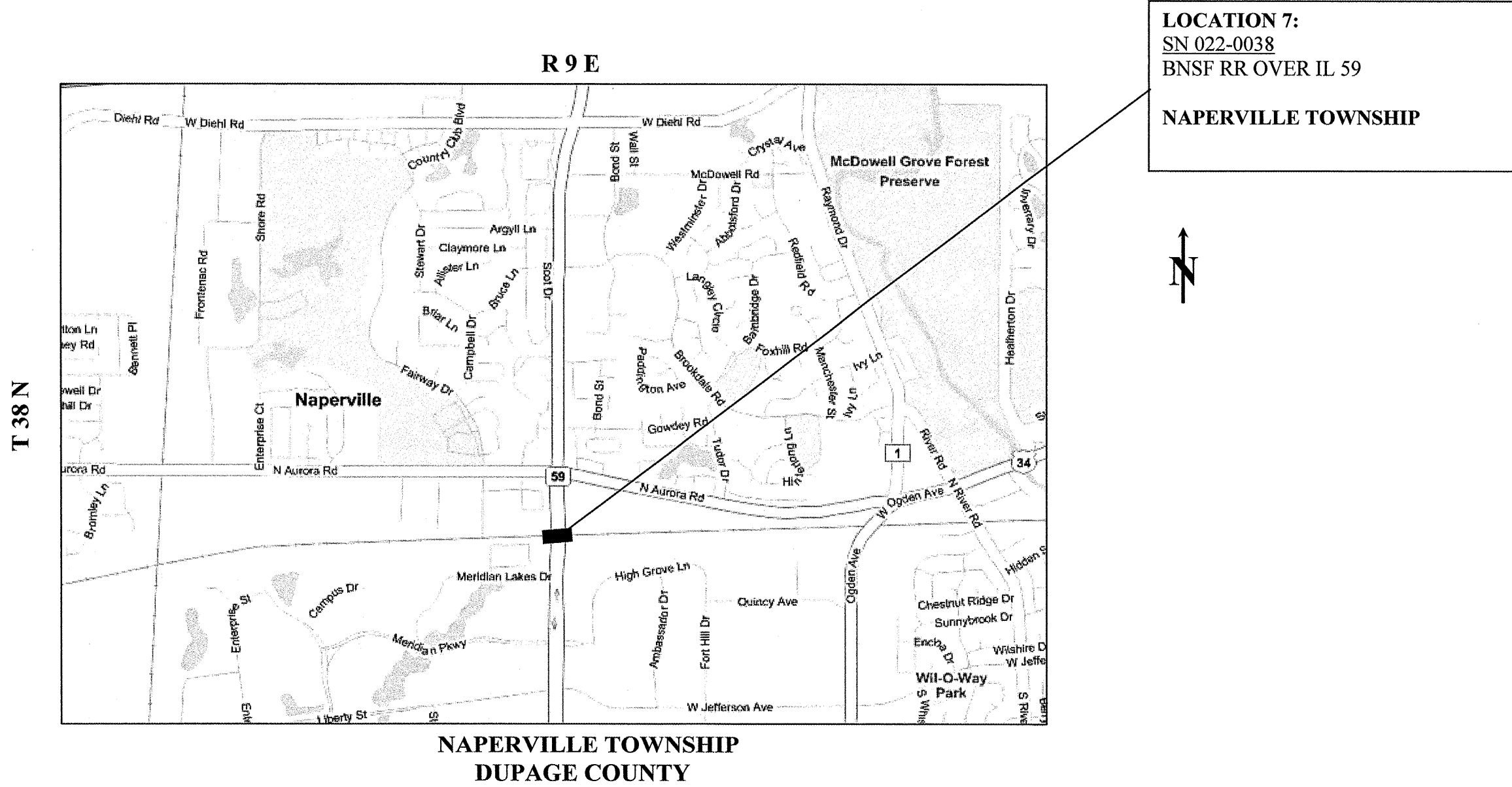


TRAFFIC DATA: IL 38
 2007 ADT = 21,100
 POSTED SPEED LIMIT = 45 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION MAPS
 LOCATION 6: IL 38 OVER W. BR. DUPAGE RIVER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	12

CONTRACT NO. 60F04



TRAFFIC DATA: IL 59	
2007 ADT	= 50,700
POSTED SPEED LIMIT	= 40 MPH

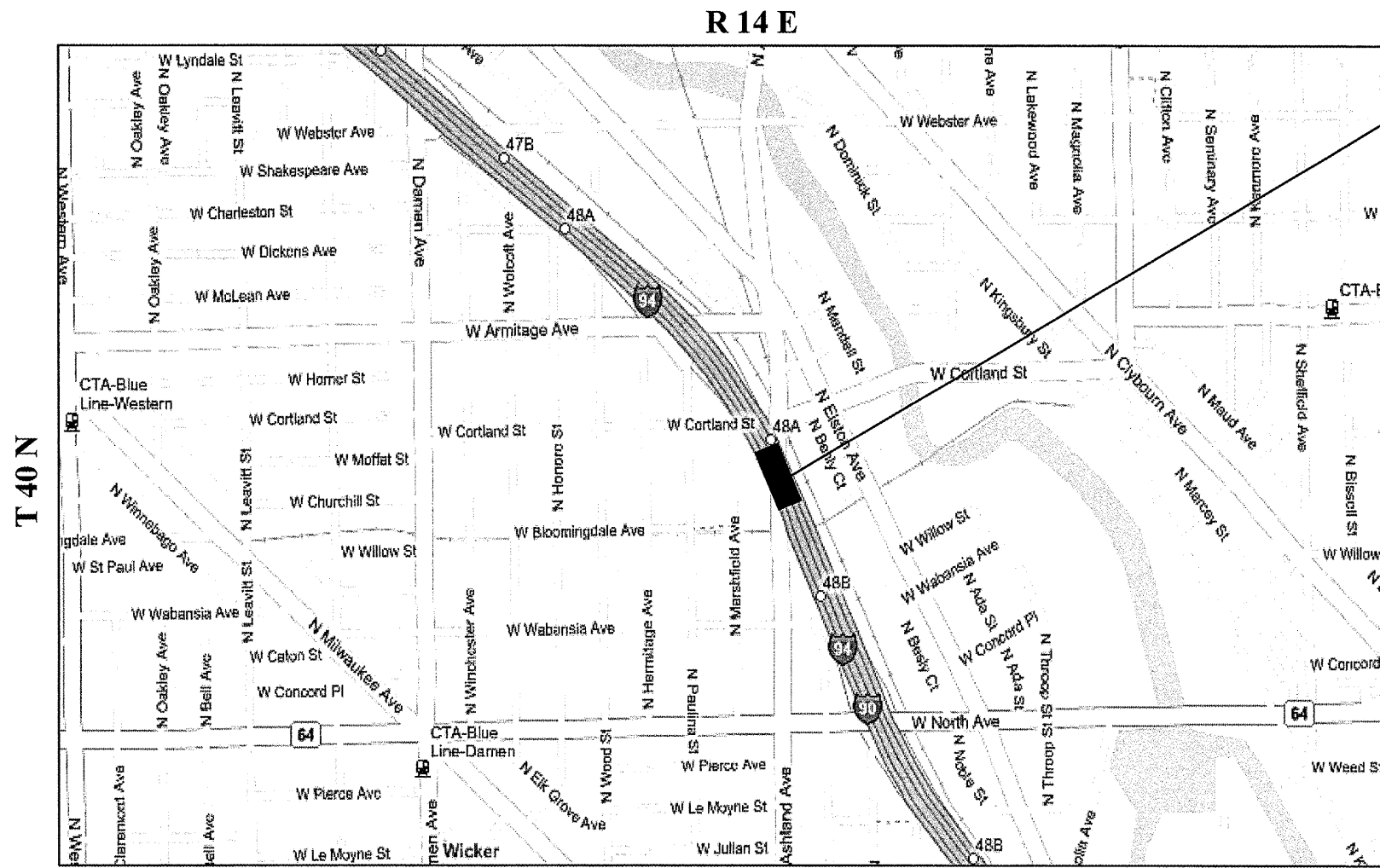
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION MAPS

LOCATION 7: BNSF RR OVER IL 59

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	13

CONTRACT NO. 60F04



LOCATION 8:
SN 016-0133
 I-90/94 (KENNEDY EXPWY.) OVER
 ASHLAND AVE.
CITY OF CHICAGO



**WEST CHICAGO TOWNSHIP
 COOK COUNTY**

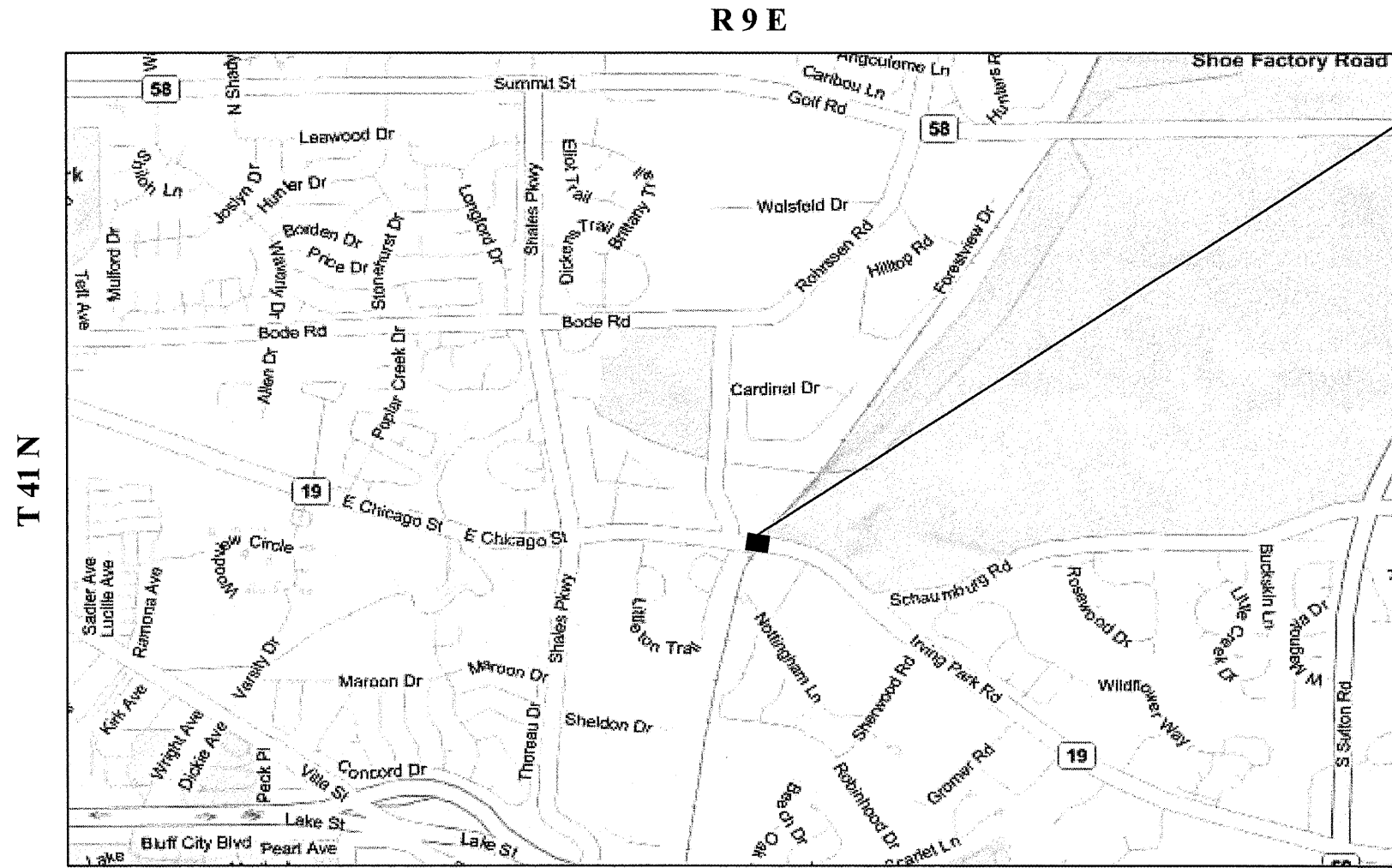
TRAFFIC DATA: I-90/94
 2006 ADT = 305,300
 POSTED SPEED LIMIT = 55 MPH

TRAFFIC DATA: ASHLAND AVE.
 2006 ADT = 26,100
 POSTED SPEED LIMIT = 30 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION MAPS
 LOCATION 8: I-90/94 OVER ASHLAND AVE.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	14

CONTRACT NO. 60F04



LOCATION 9:
 SN 016-0948
 IL 19 OVER EJ&E RR
HANOVER TOWNSHIP

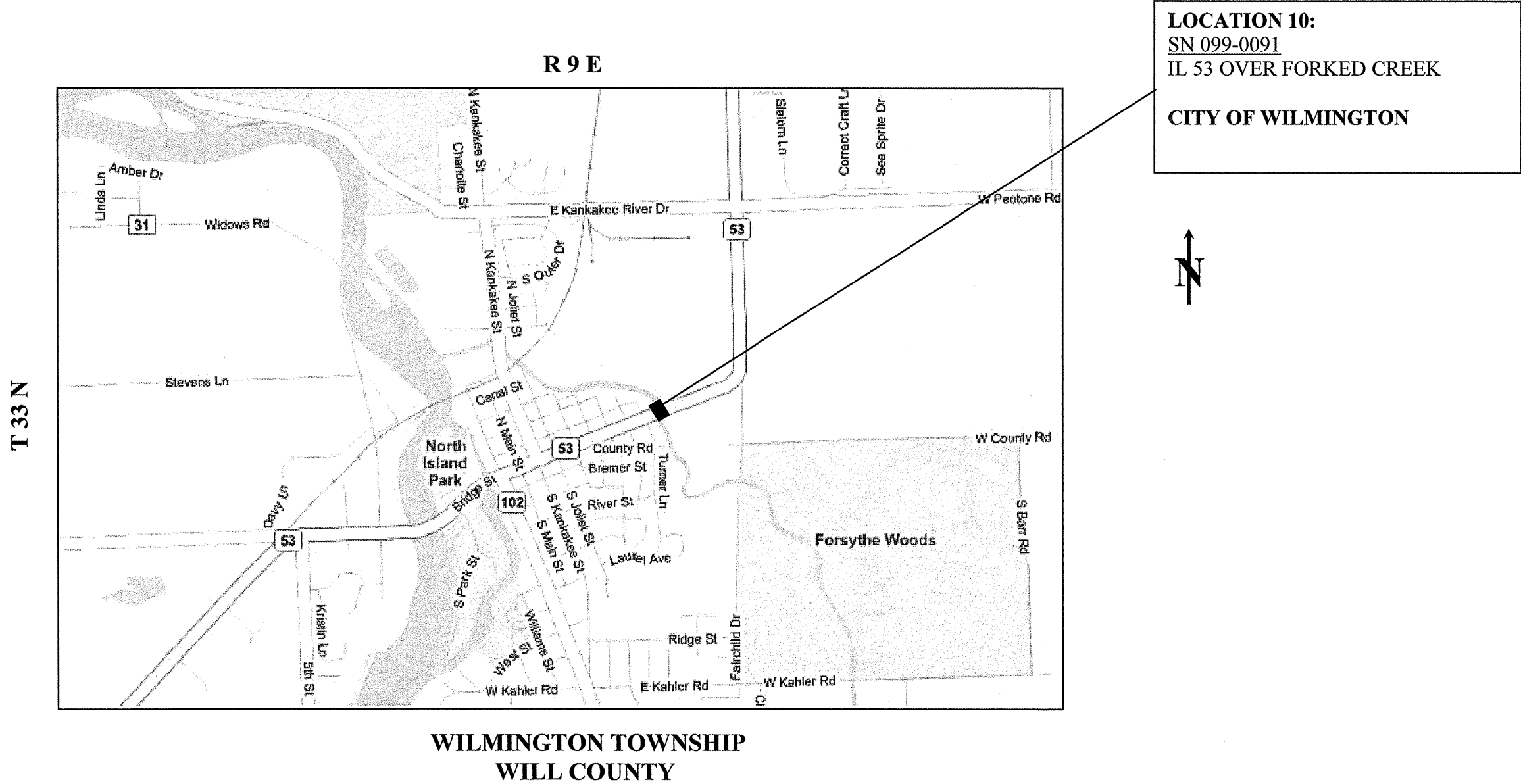
**HANOVER TOWNSHIP
 COOK COUNTY**

TRAFFIC DATA: IL 19
 2007 ADT = 12,700
 POSTED SPEED LIMIT = 45 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION MAPS
 LOCATION 9: IL 19 OVER EJ&E RR

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	15

CONTRACT NO. 60F04



TRAFFIC DATA: IL 53	
2007 ADT	= 10,200
POSTED SPEED LIMIT	= 35 MPH

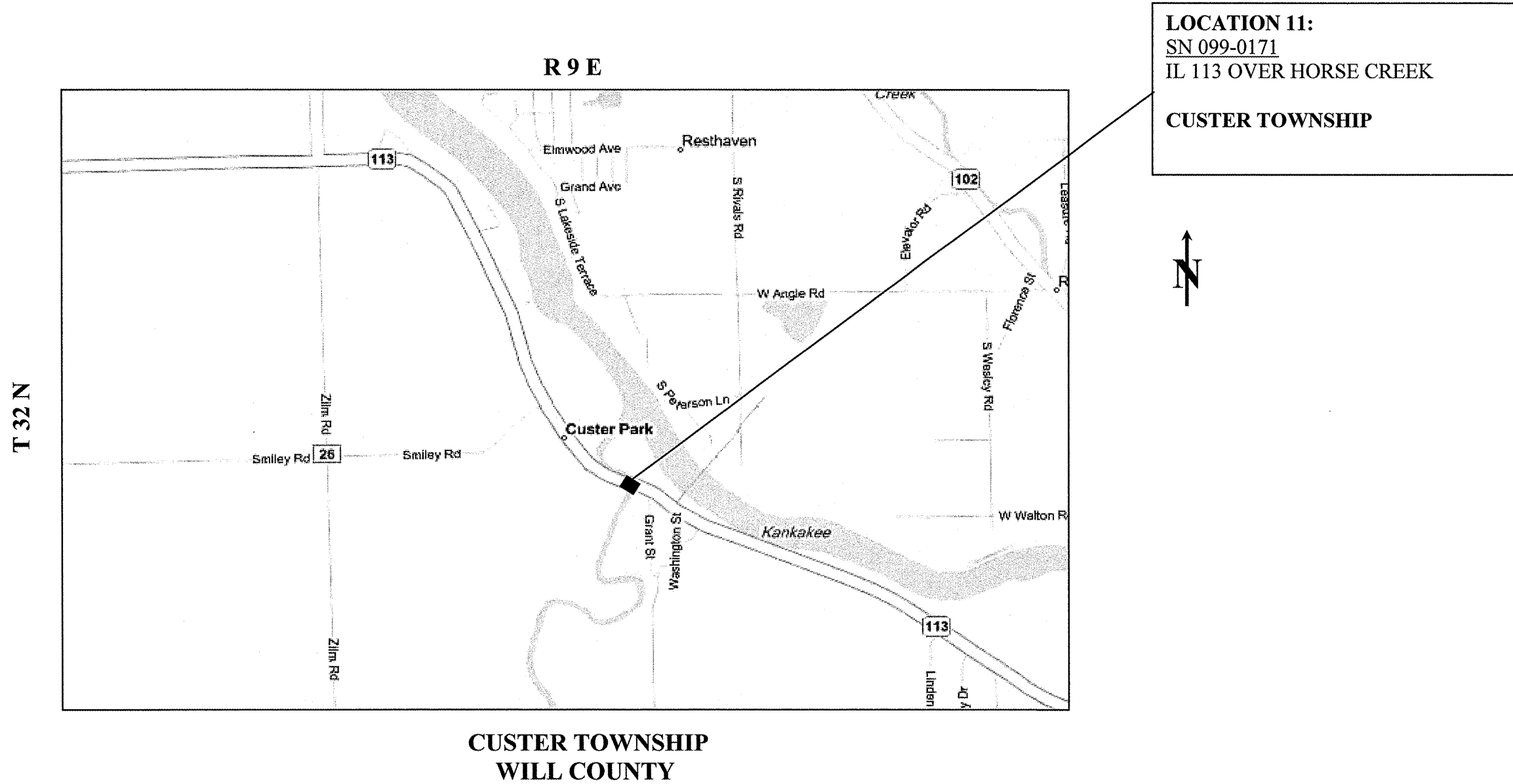
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION MAPS

LOCATION 10: IL 53 OVER FORKED CREEK

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	16

CONTRACT NO. 60F04



LOCATION 11:
 SN 099-0171
 IL 113 OVER HORSE CREEK
 CUSTER TOWNSHIP

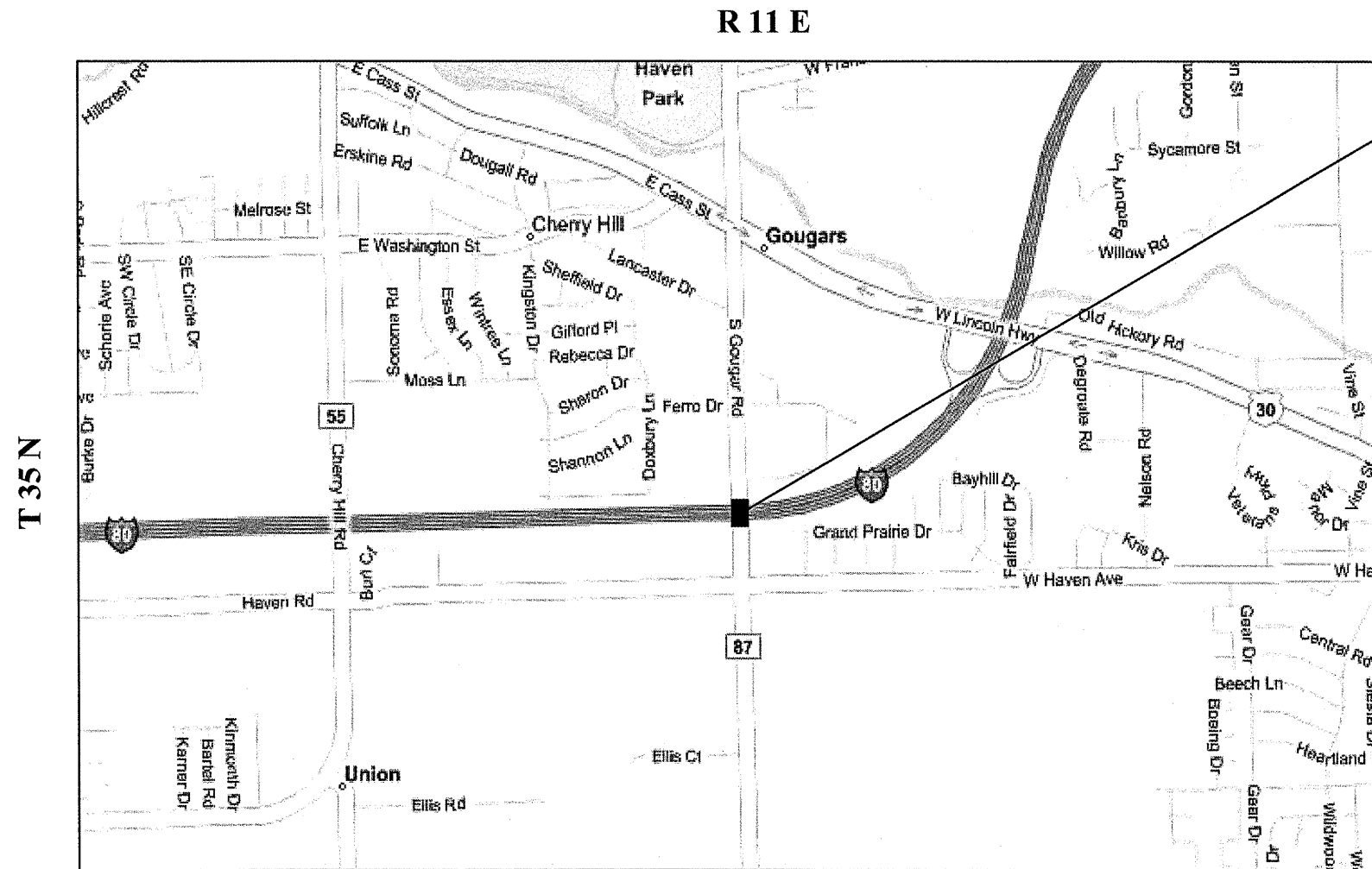


TRAFFIC DATA: IL 113
 2007 ADT = 3,700
 POSTED SPEED LIMIT = 55 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION MAPS
 LOCATION 11: IL 113 OVER HORSE CREEK

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	17

CONTRACT NO. 60F04



LOCATION 12:
 SN 099-0203
 GOUGAR RD OVER I-80
VILLAGE OF NEW LENOX



**NEW LENOX TOWNSHIP
 WILL COUNTY**

TRAFFIC DATA: GOUGAR RD.

2004 ADT = 9,100
 POSTED SPEED LIMIT = 55 MPH

TRAFFIC DATA: I-80

2007 ADT = 81,200
 POSTED SPEED LIMIT = 55 MPH

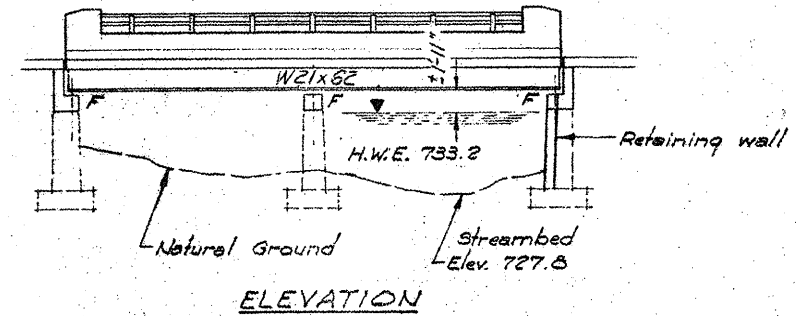
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION MAPS

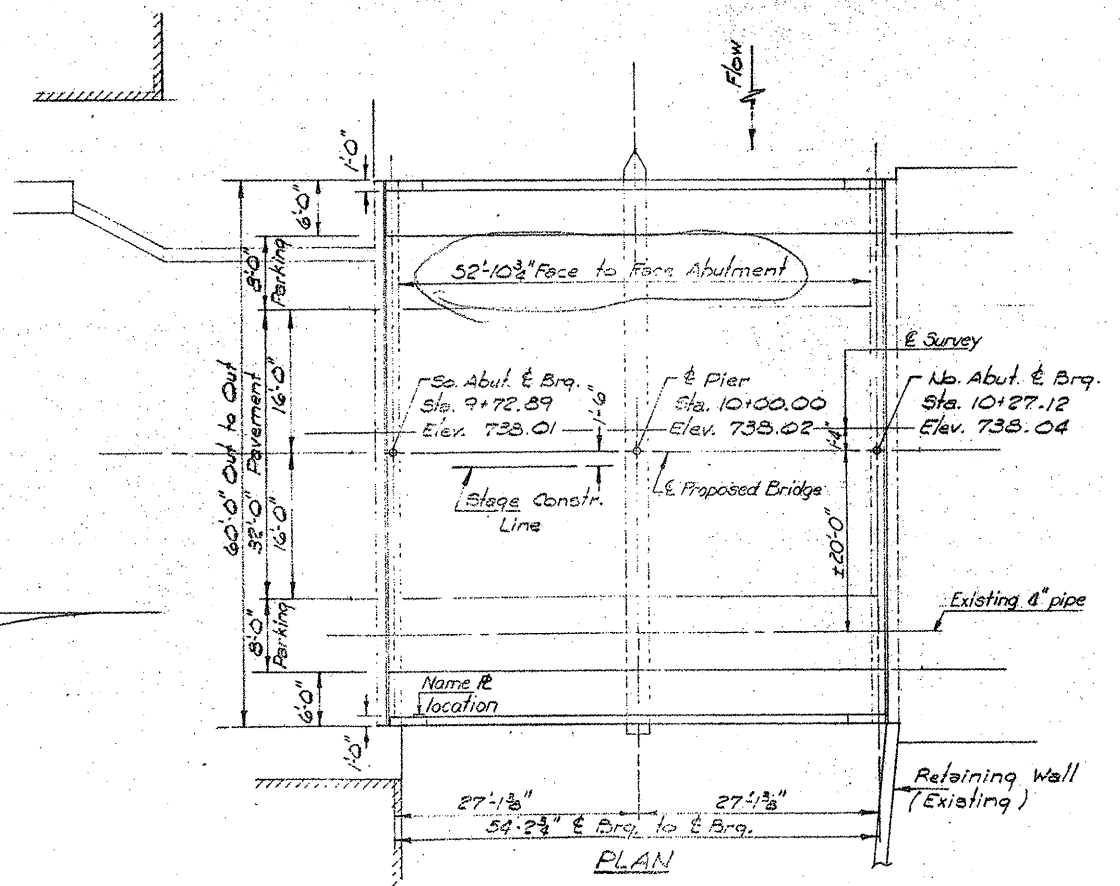
LOCATION 12: GOUGAR RD. OVER I-80

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	19

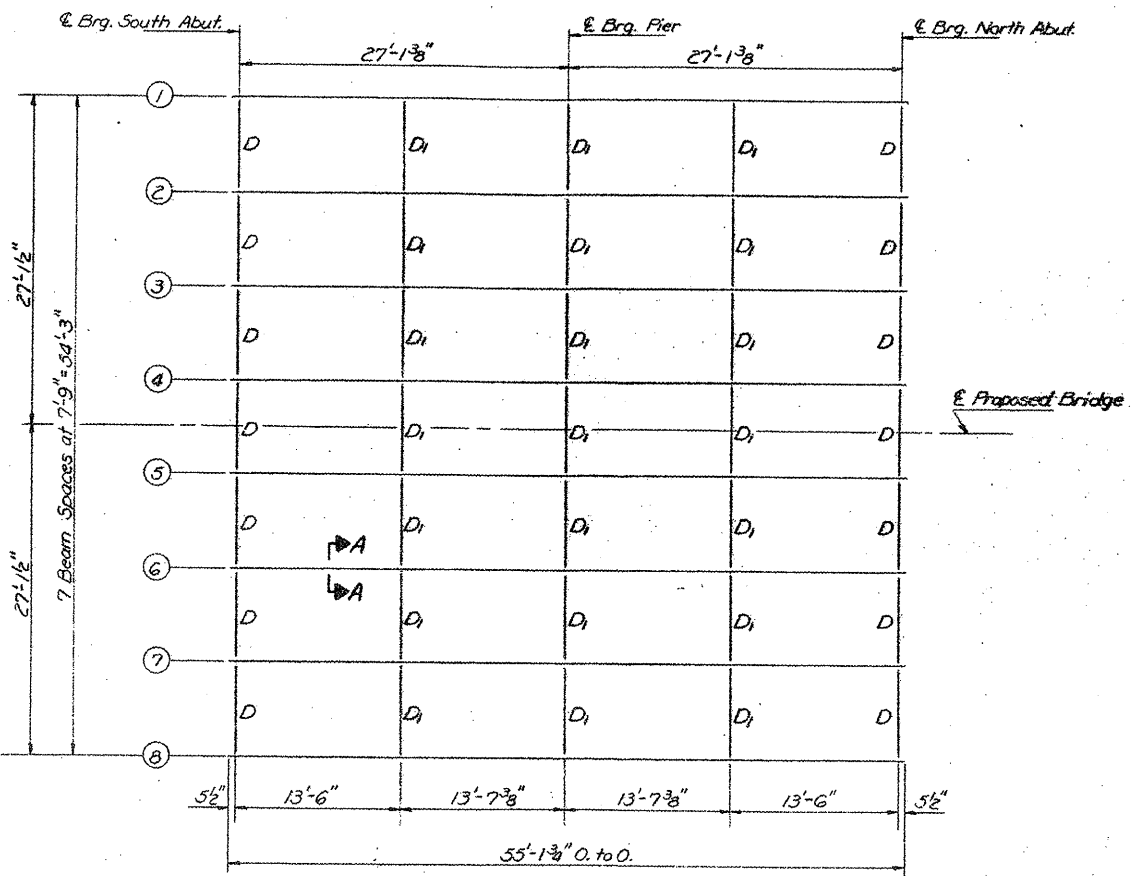
CONTRACT NO. 60F04



ELEVATION

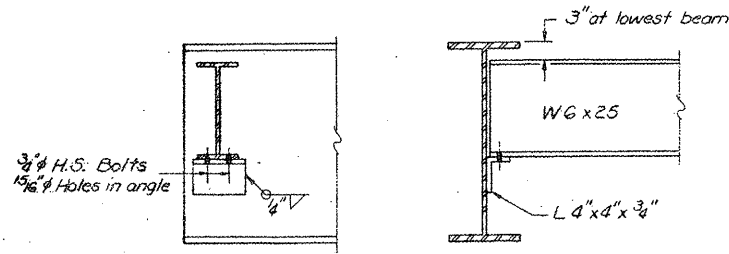


PLAN

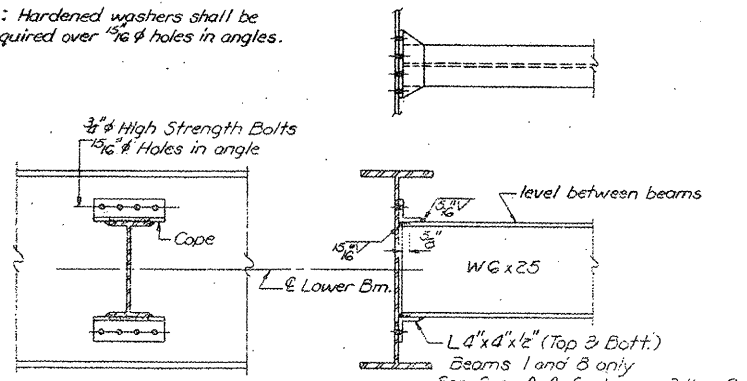


FRAMING PLAN
All beams W21x62

Note: Hardened washers shall be required over 1/8" holes in angles.



DIAPHRAGM D
14 Required



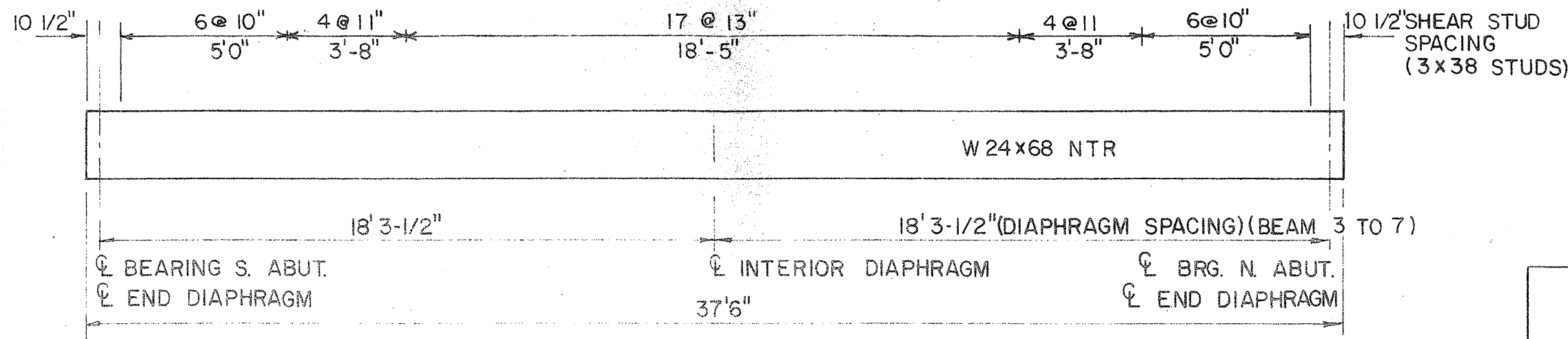
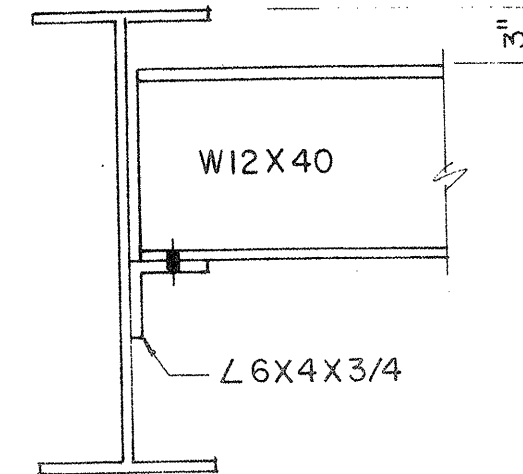
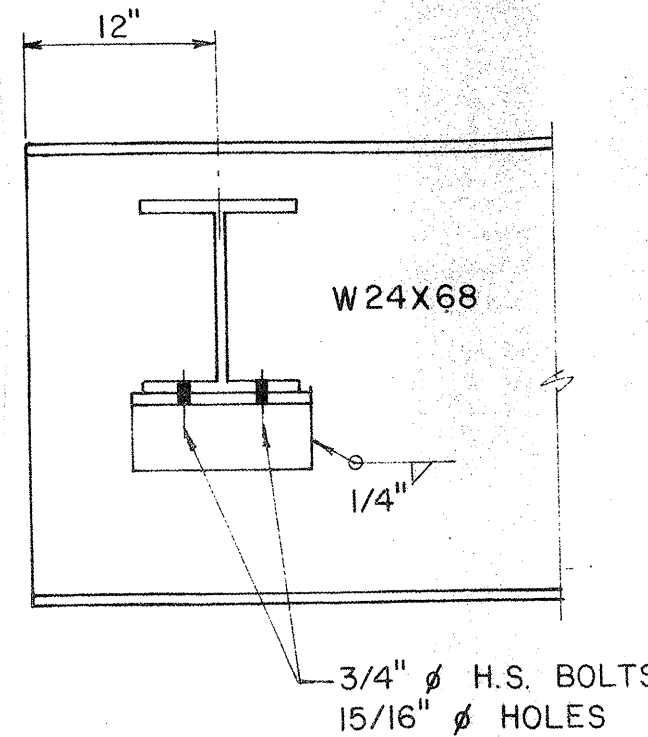
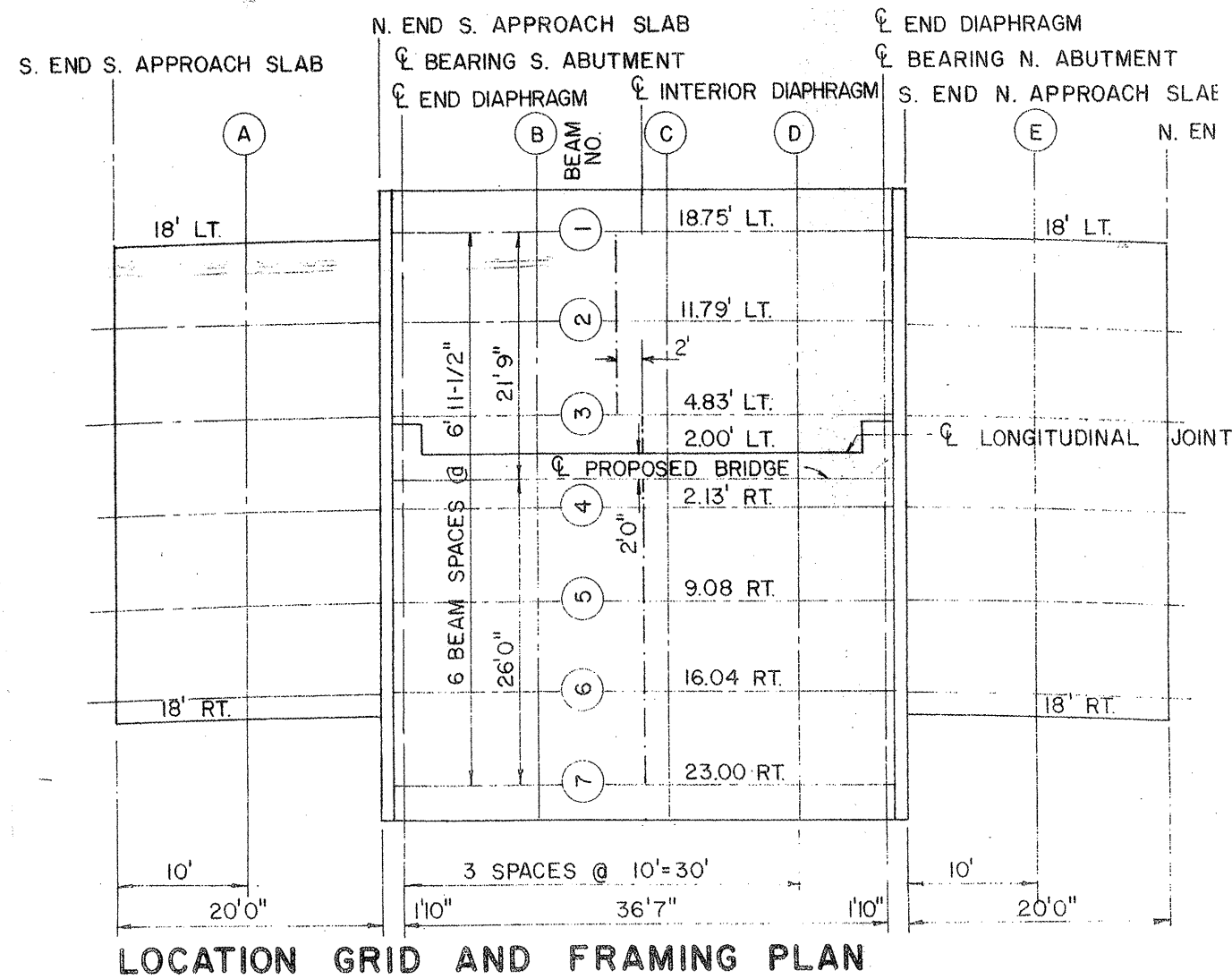
DIAPHRAGM Di
21 Required

SHEET 1 OF 1

LOCATION NO. 1
EXIST. BRIDGE PLANS
IL 31 OVER CRYSTAL LAKE
OVERFLOW SN 056-0015

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	21

CONTRACT NO. 60F04



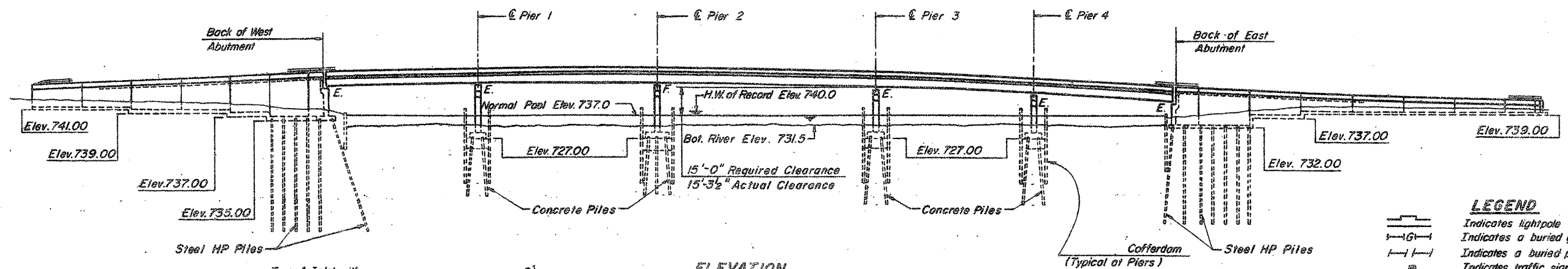
NTR INDICATES NOTCH TOUGHNESS REQUIREMENT

LOCATION NO. 2

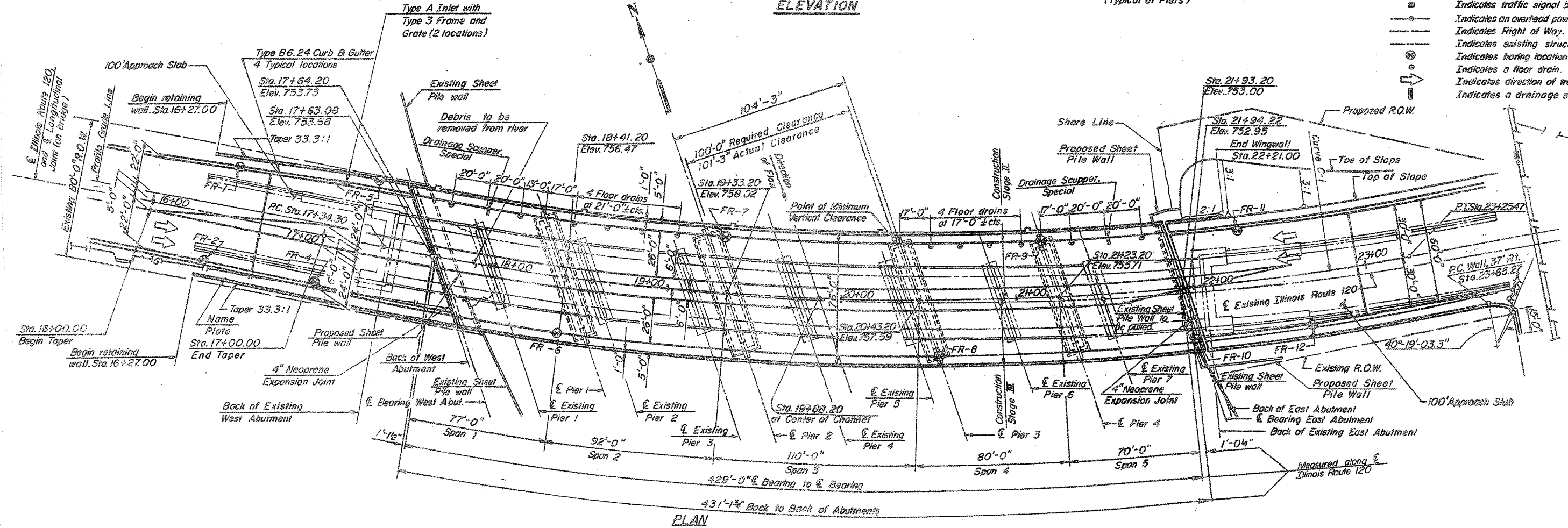
**EXIST. BRIDGE PLANS
IL 31 OVER EDGEWOOD
RAVINE SN 056-0016**

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 22
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CONTRACT NO. 60F04



- LEGEND**
- |—|— Indicates lightpole base
 - |—|— Indicates a buried gas line
 - |—|— Indicates a buried power line
 - ⊙ Indicates traffic signal box
 - |—|— Indicates an overhead power line and pole
 - |—|— Indicates Right of Way
 - |—|— Indicates existing structure
 - ⊙ Indicates boring location
 - ⊙ Indicates a floor drain
 - Indicates direction of traffic lane
 - |—|— Indicates a drainage scupper

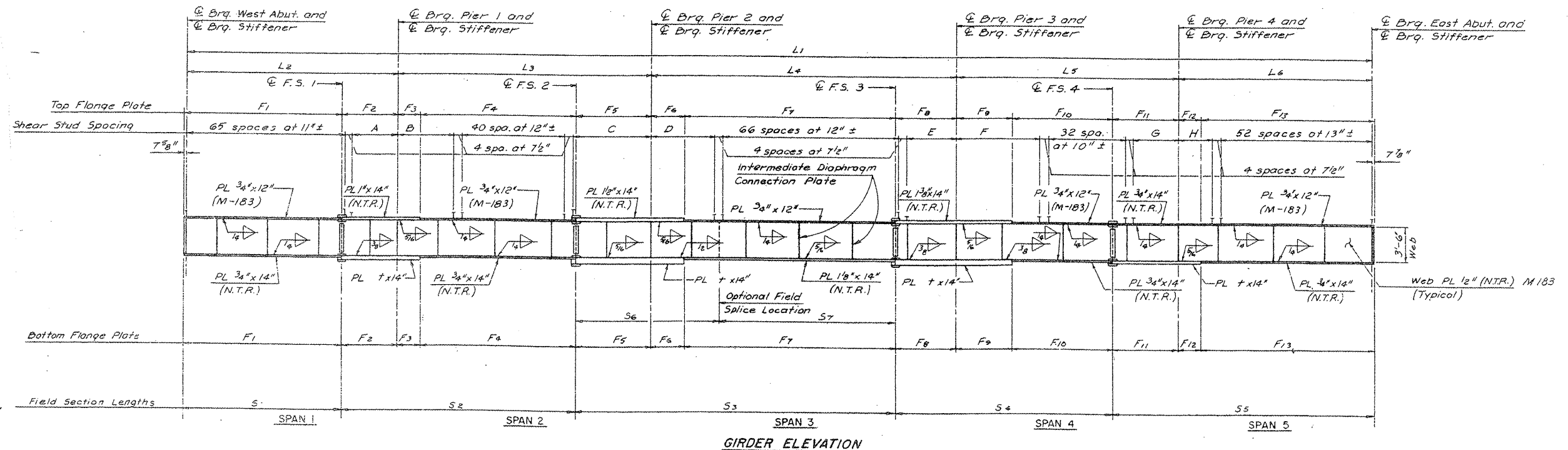
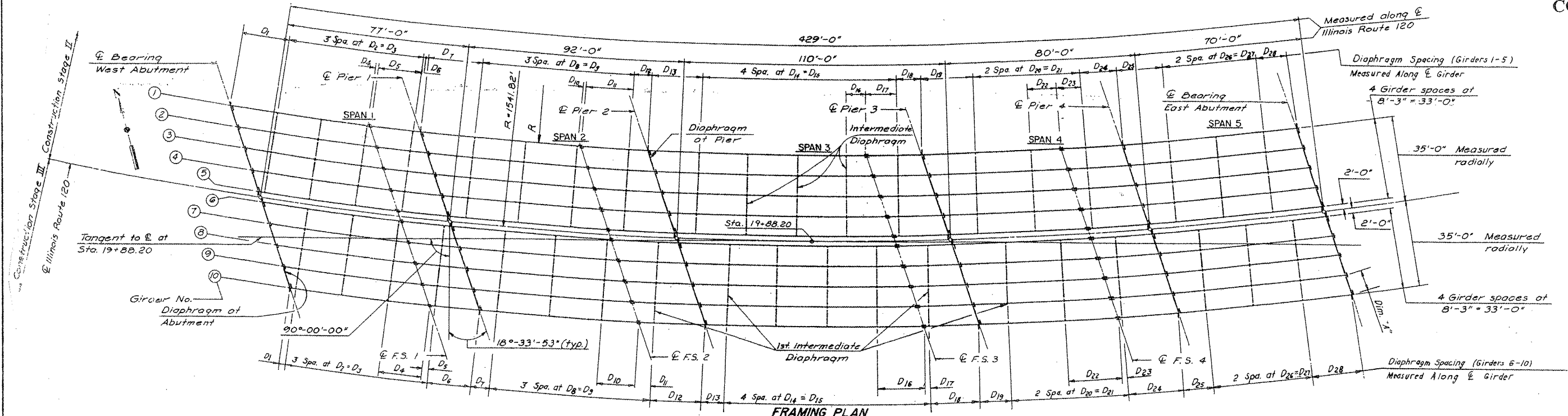


LOCATION NO. 3

**EXIST. BRIDGE PLANS
IL 120 OVER FOX RIVER
SN 056-0049**

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 23
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CONTRACT NO. 60F04

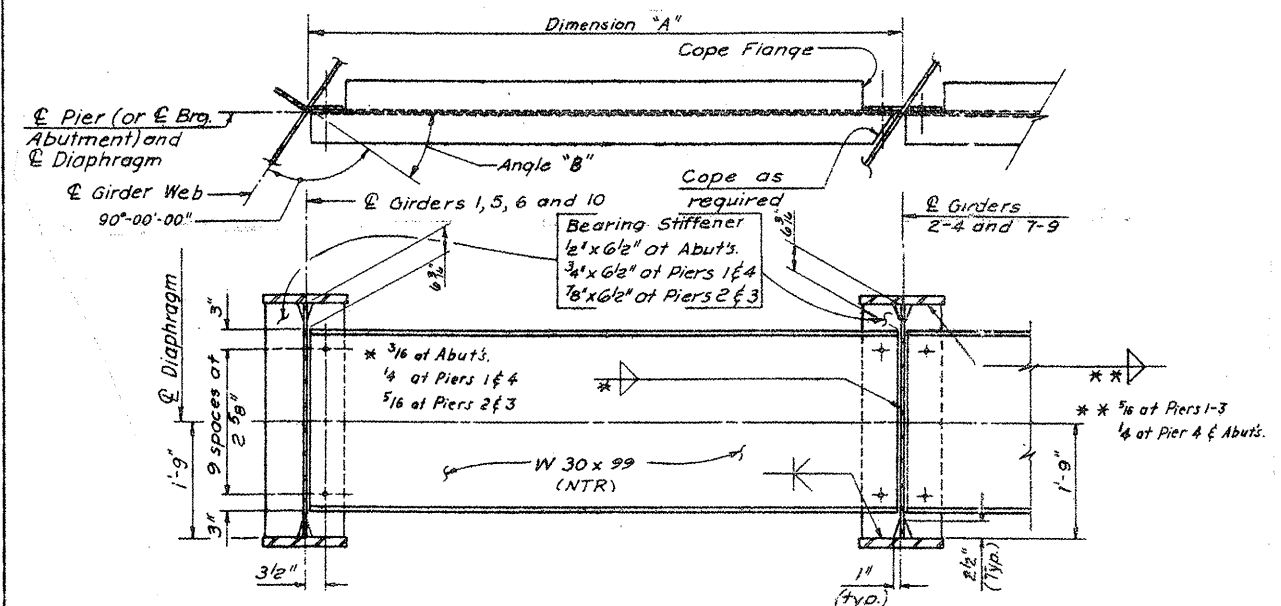


LOCATION NO. 3

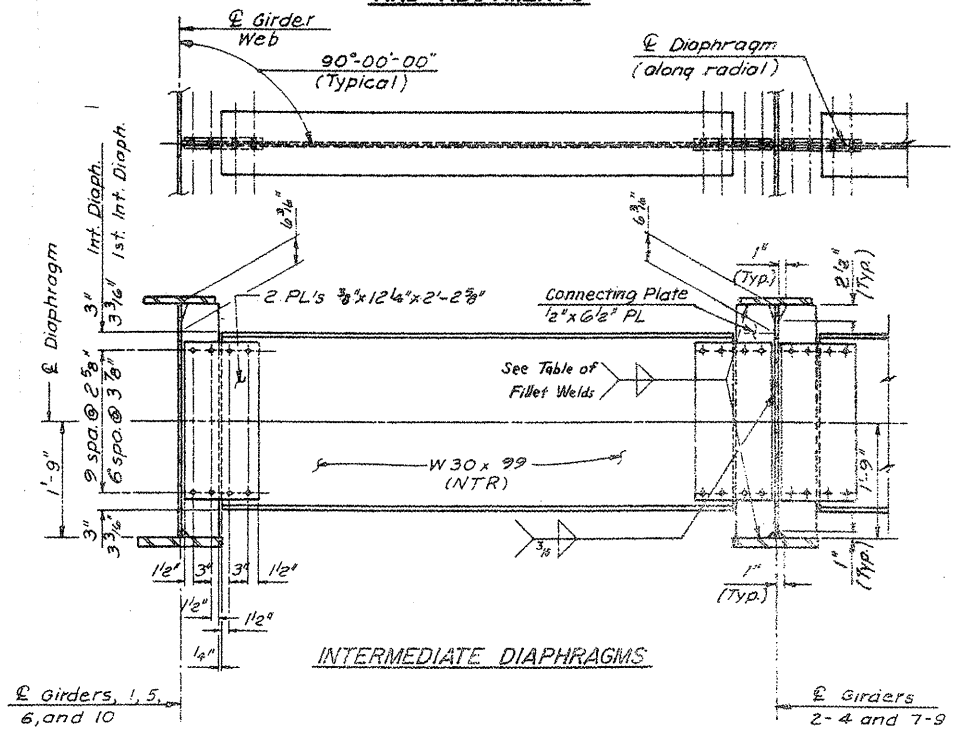
**EXIST. BRIDGE PLANS
IL 120 OVER FOX RIVER
SN 056-0049**

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 24
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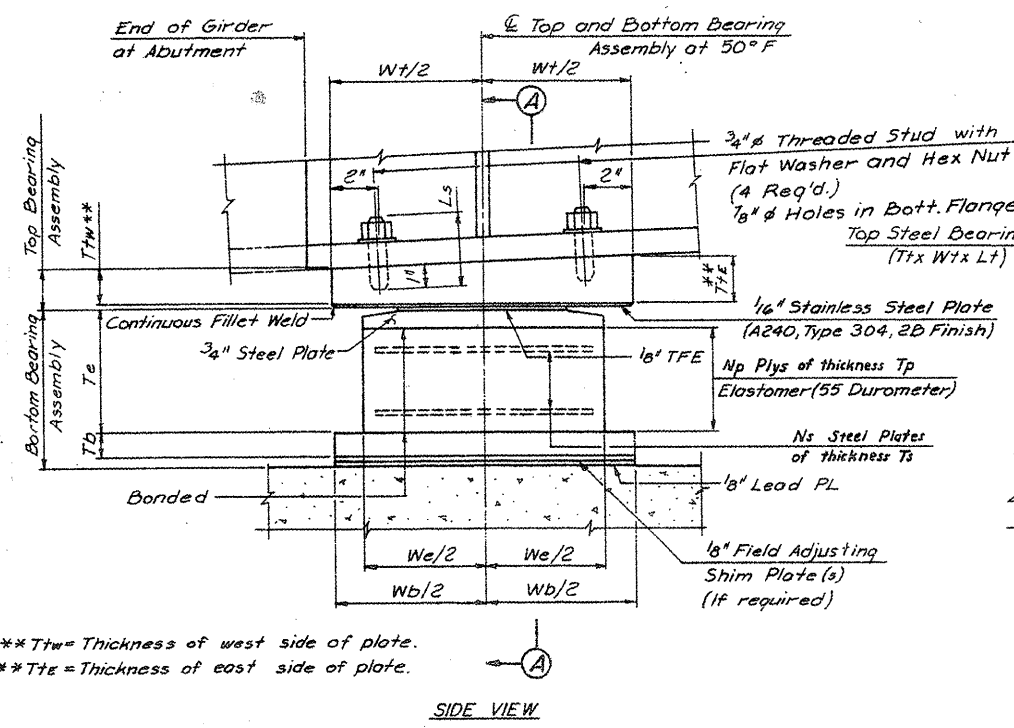
CONTRACT NO. 60F04



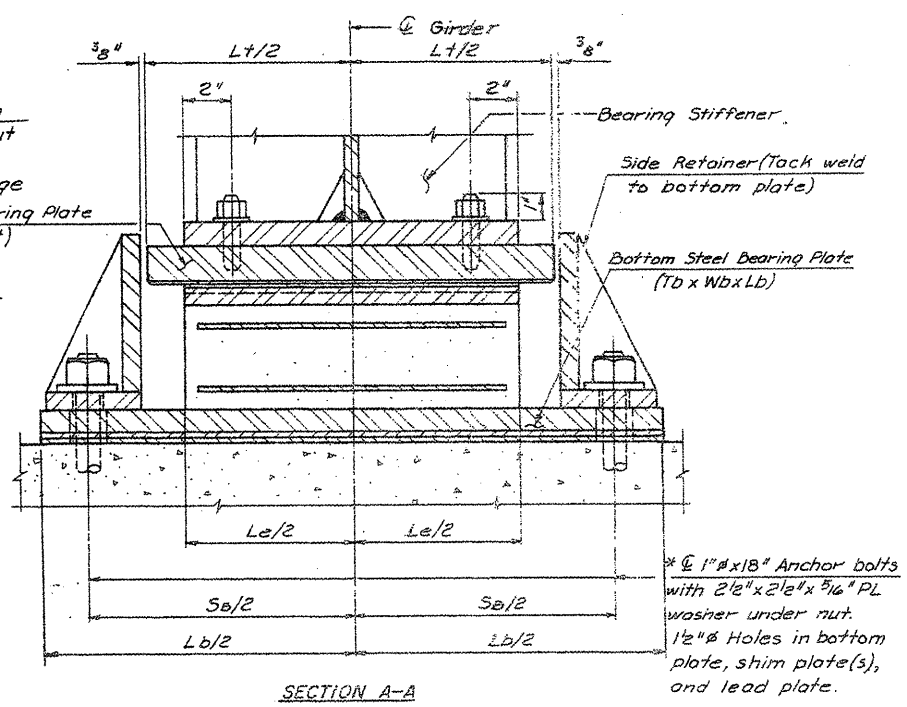
DIAPHRAGMS AT PIERS AND ABUTMENTS



INTERMEDIATE DIAPHRAGMS



SIDE VIEW

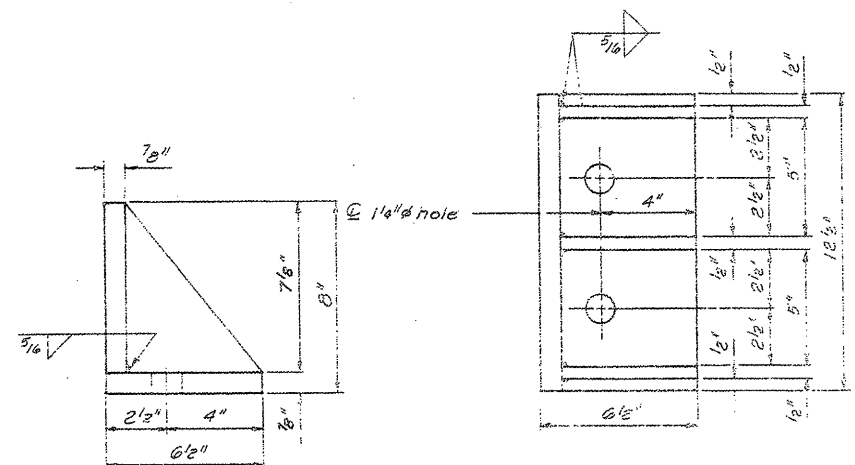


SECTION A-A

TYPE II ELASTOMERIC EXPANSION BEARING DEVICE

(West and East Abutments and Piers 1, 3 and 4)

**T_{tw} = Thickness of west side of plate.
**T_{te} = Thickness of east side of plate.

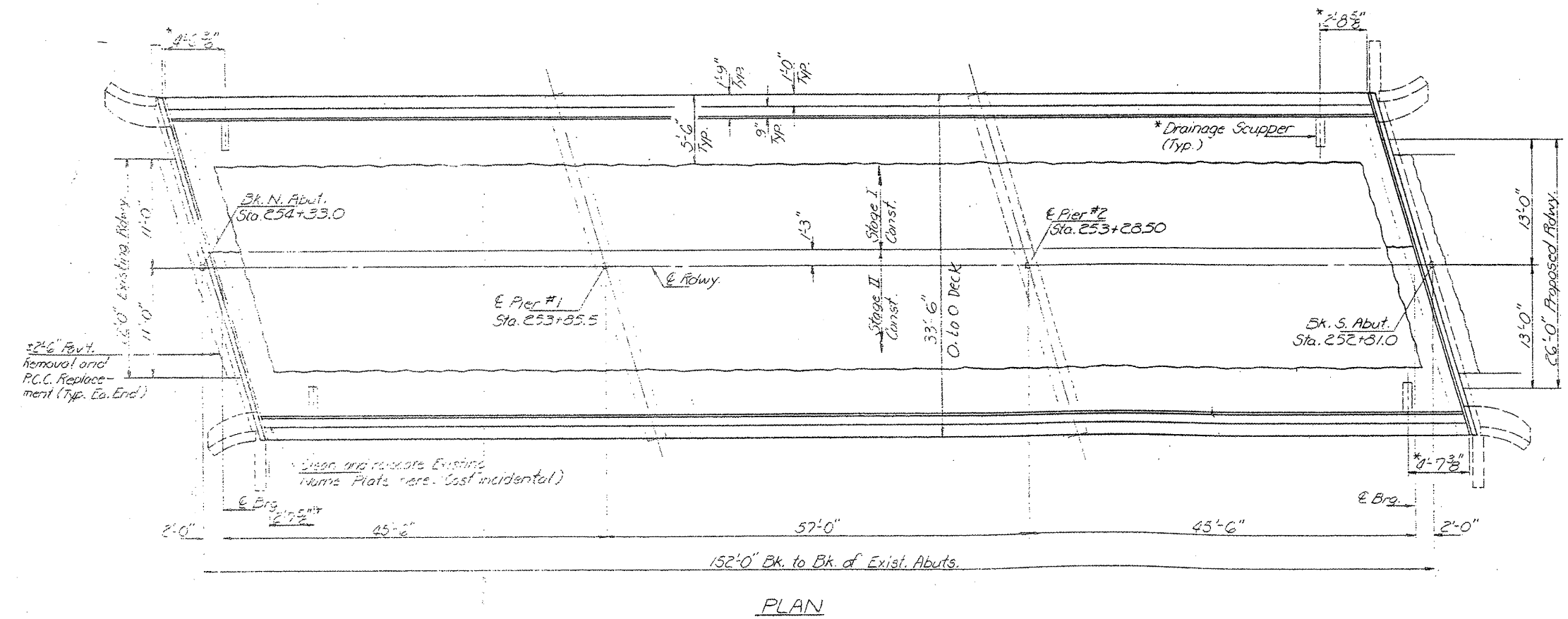
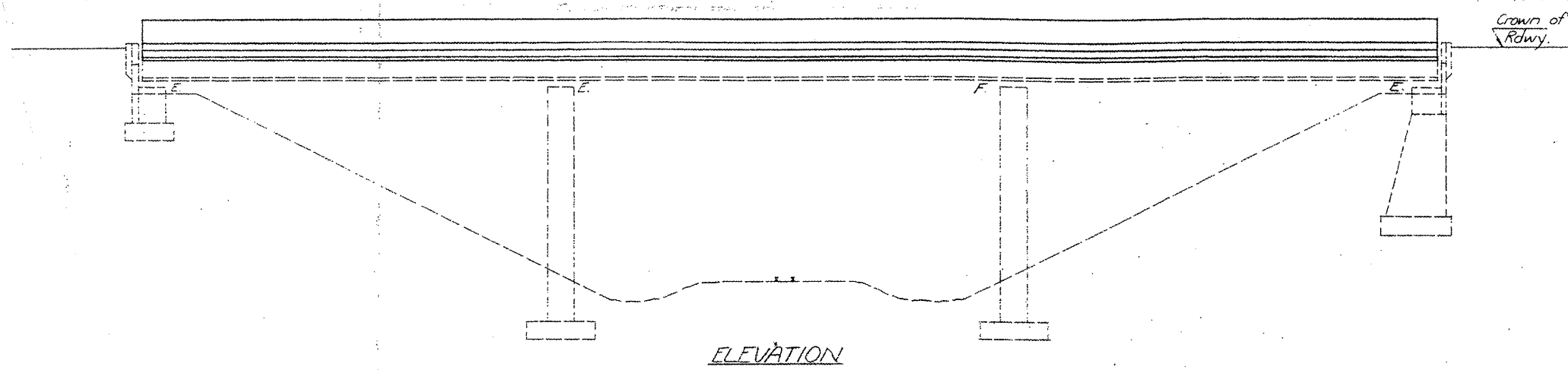


SIDE RETAINER

LOCATION NO. 3
EXIST. BRIDGE PLANS
IL 120 OVER FOX RIVER
SN 056-0049

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	25

CONTRACT NO. 60F04

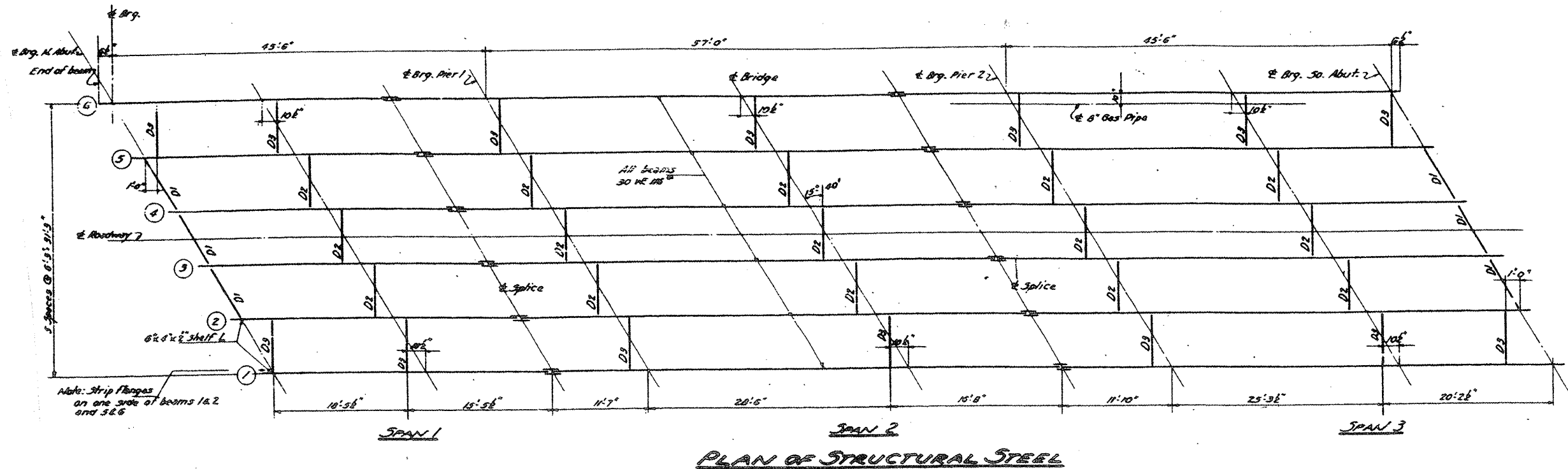


LOCATION NO. 4

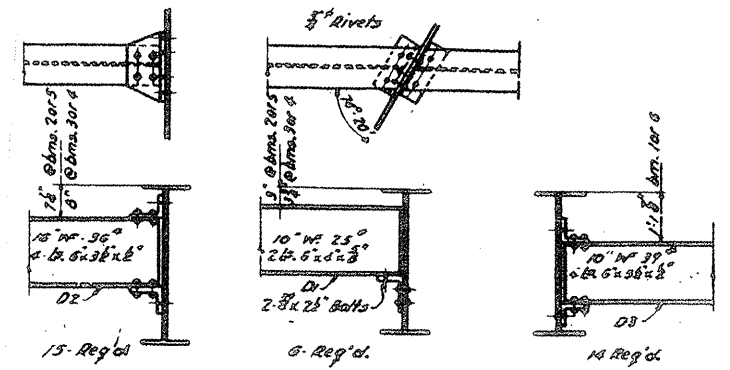
EXIST. BRIDGE PLANS
IL 131 OVER EJ&E RR
SN 049-0012

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 26
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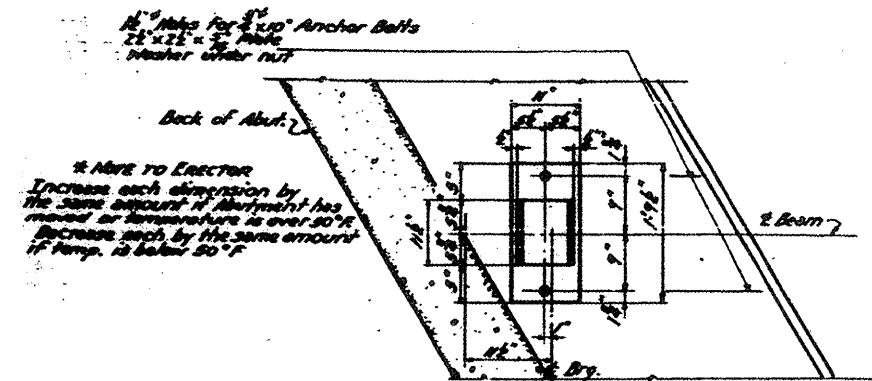
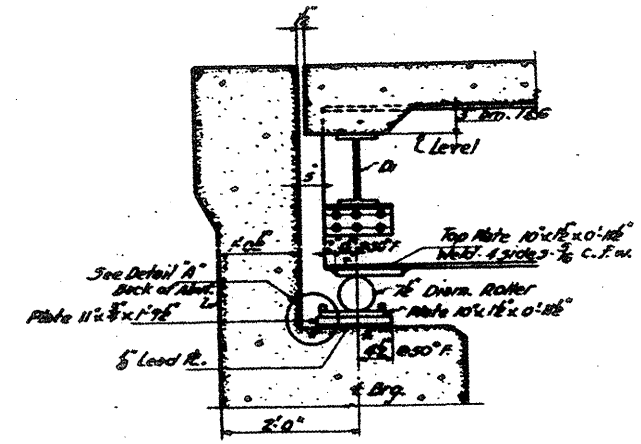
CONTRACT NO. 60F04



PLAN OF STRUCTURAL STEEL



DIAPHRAGM DETAILS

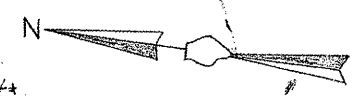
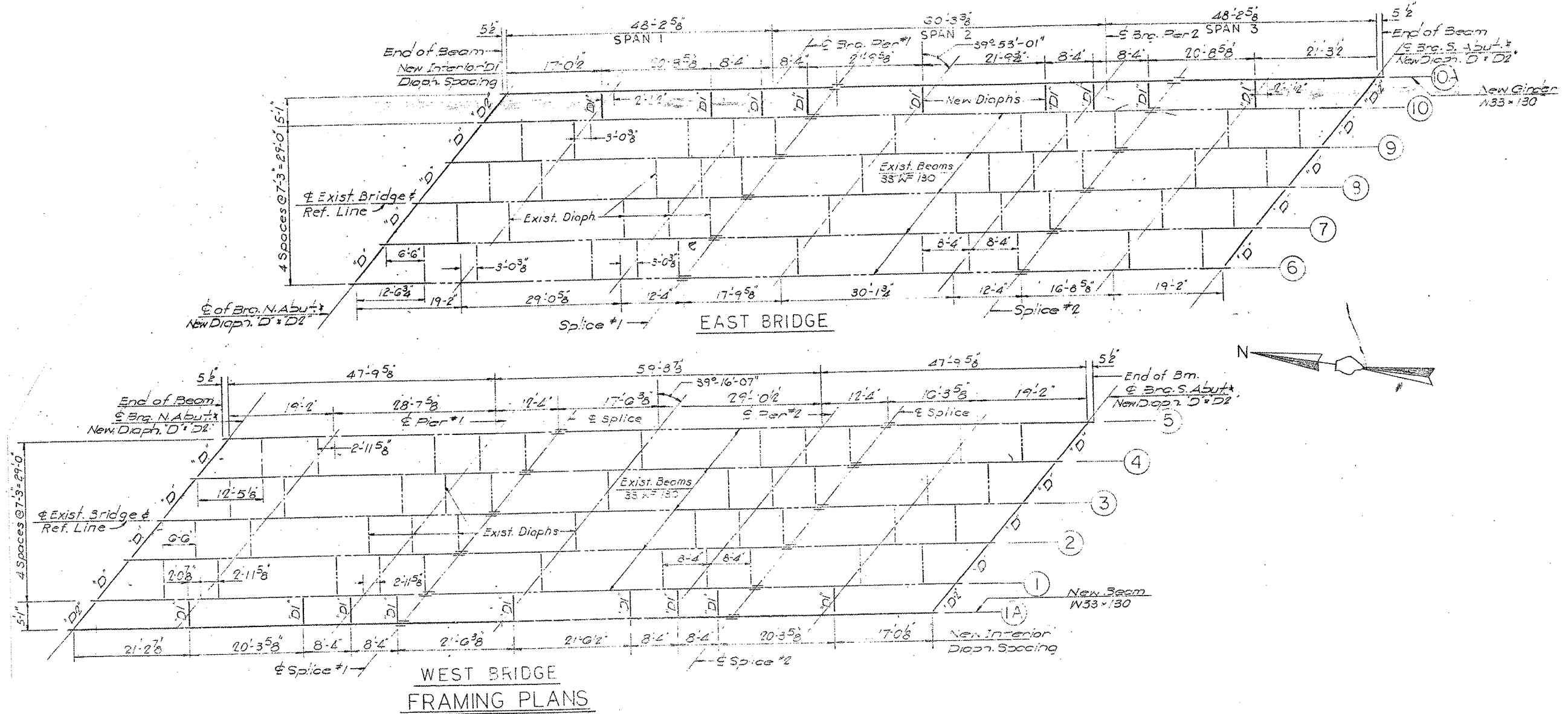


LOCATION NO. 4

EXIST. BRIDGE PLANS
IL 131 OVER EJ&E RR
SN 049-0012

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	27

CONTRACT NO. 60F04



LOCATION NO. 5

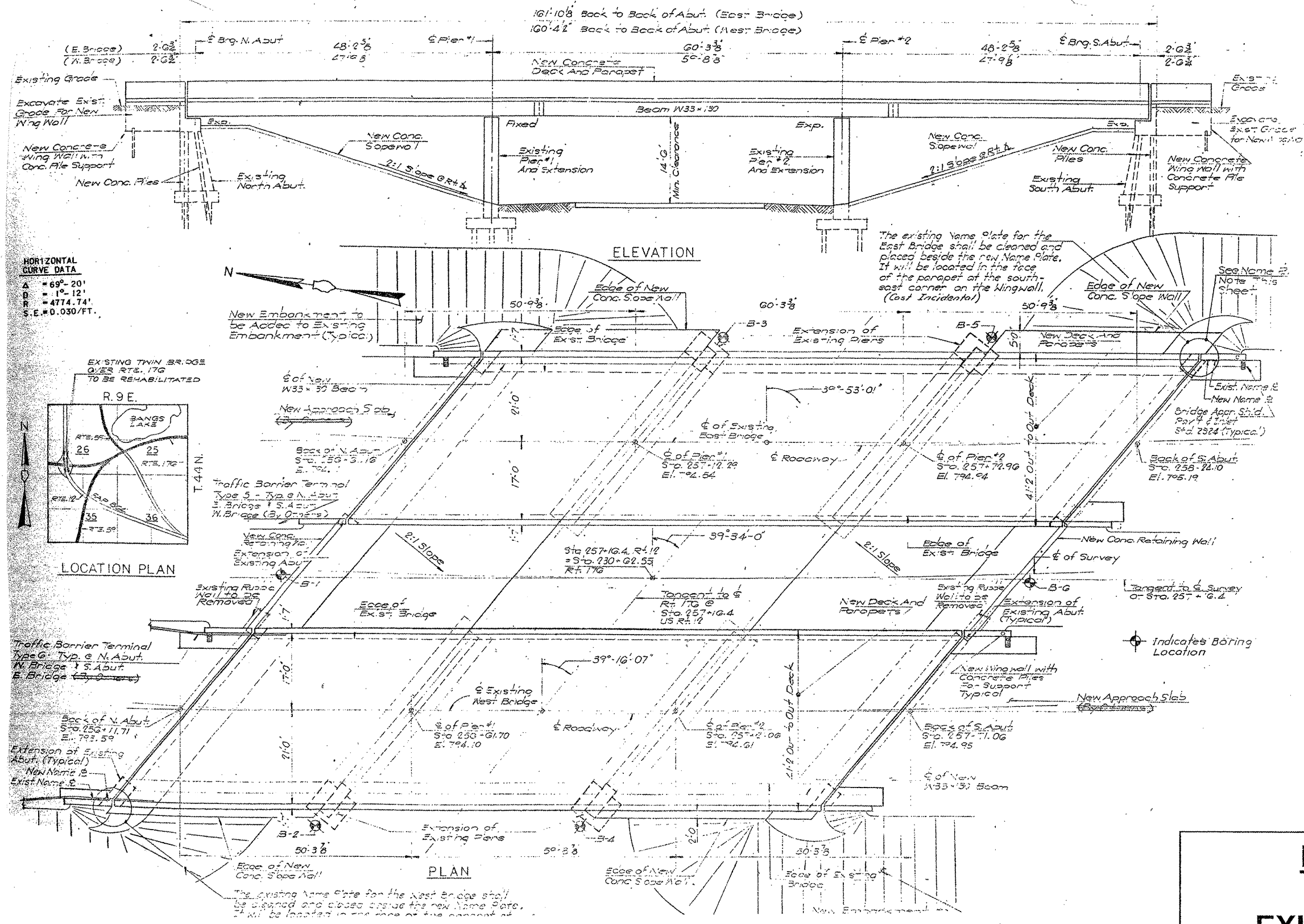
EXIST. BRIDGE PLANS

US 12 NB & SB OVER IL 176

SN'S 049-0022, 049-0023

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	28

CONTRACT NO. 60F04

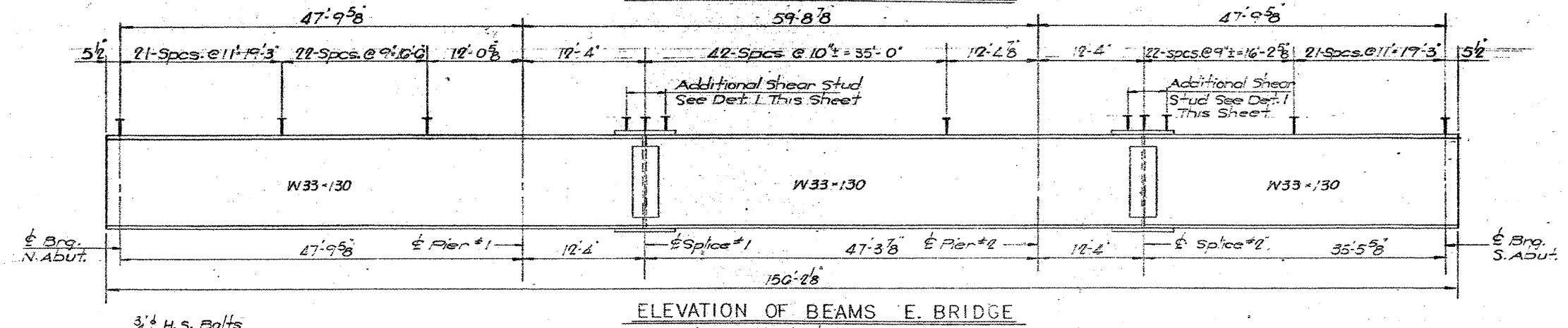
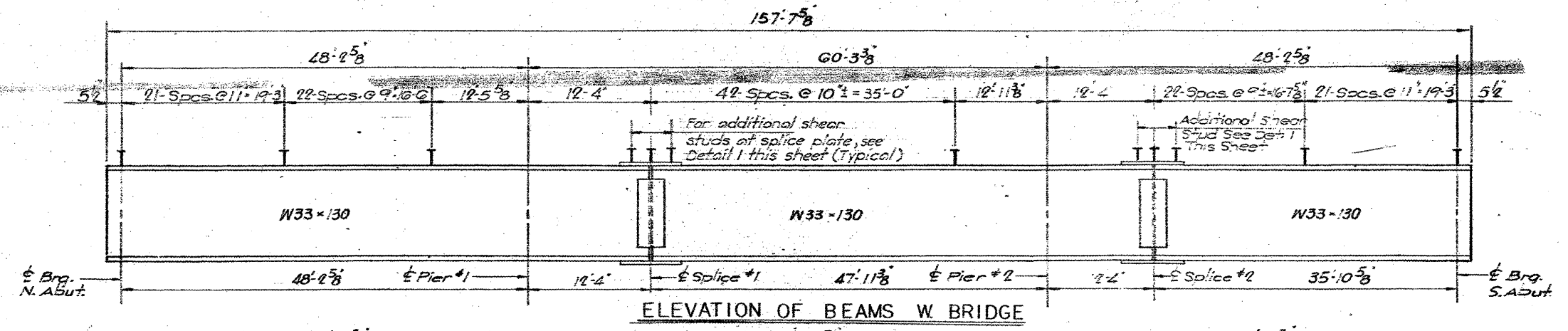


LOCATION NO. 5

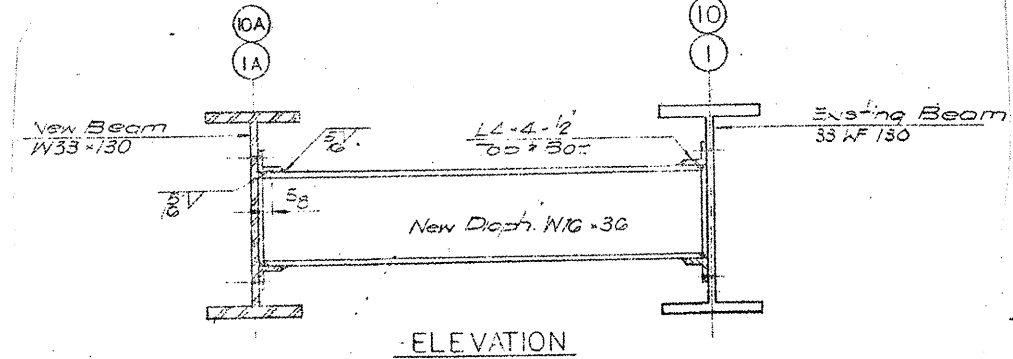
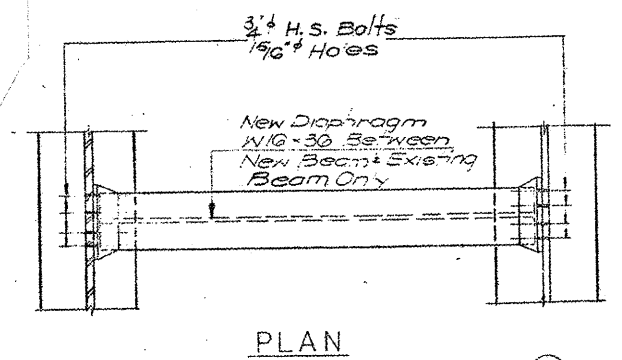
EXIST. BRIDGE PLANS
US 12 NB & SB OVER IL 176
SN'S 049-0022, 049-0023

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	29

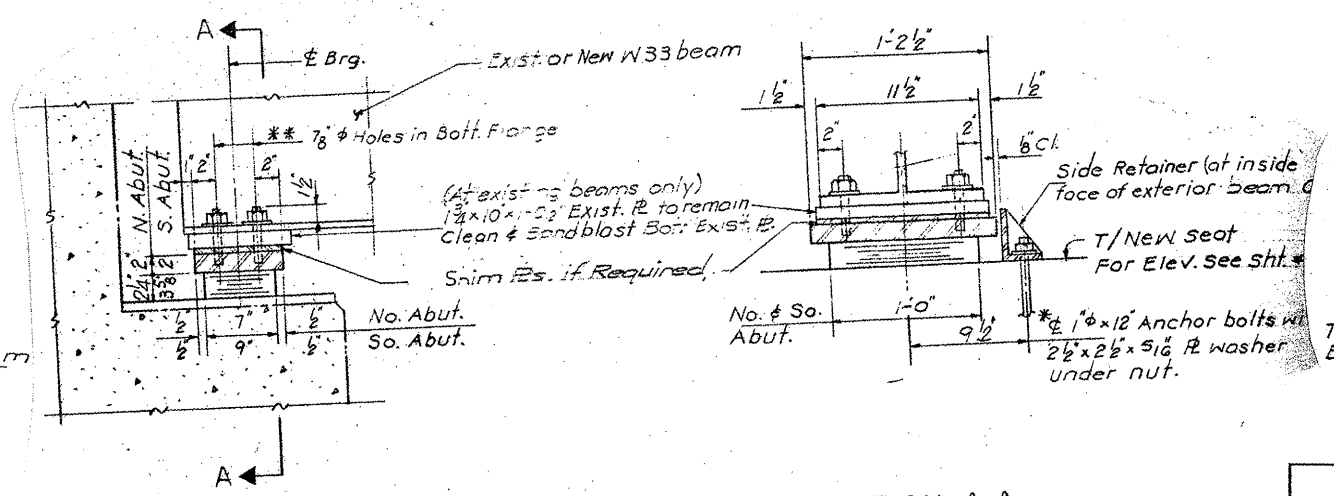
CONTRACT NO. 60F04



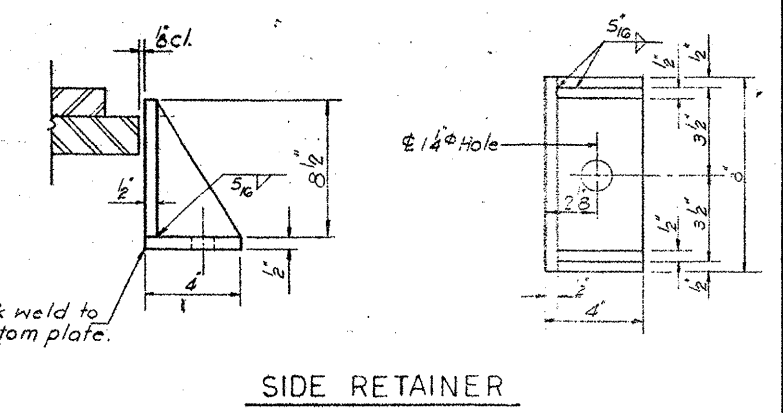
ELEVATION OF BEAMS E BRIDGE
 Note: Shear Studs to be Provided on All New and Existing Girders



INTERIOR DIAPHRAGM DETAILS "DI"



SECTION AT ABUTMENTS
 TYPE I ELASTOMERIC EXP. BRGS.
 AT NC. ABUT. & SO. ABUT.



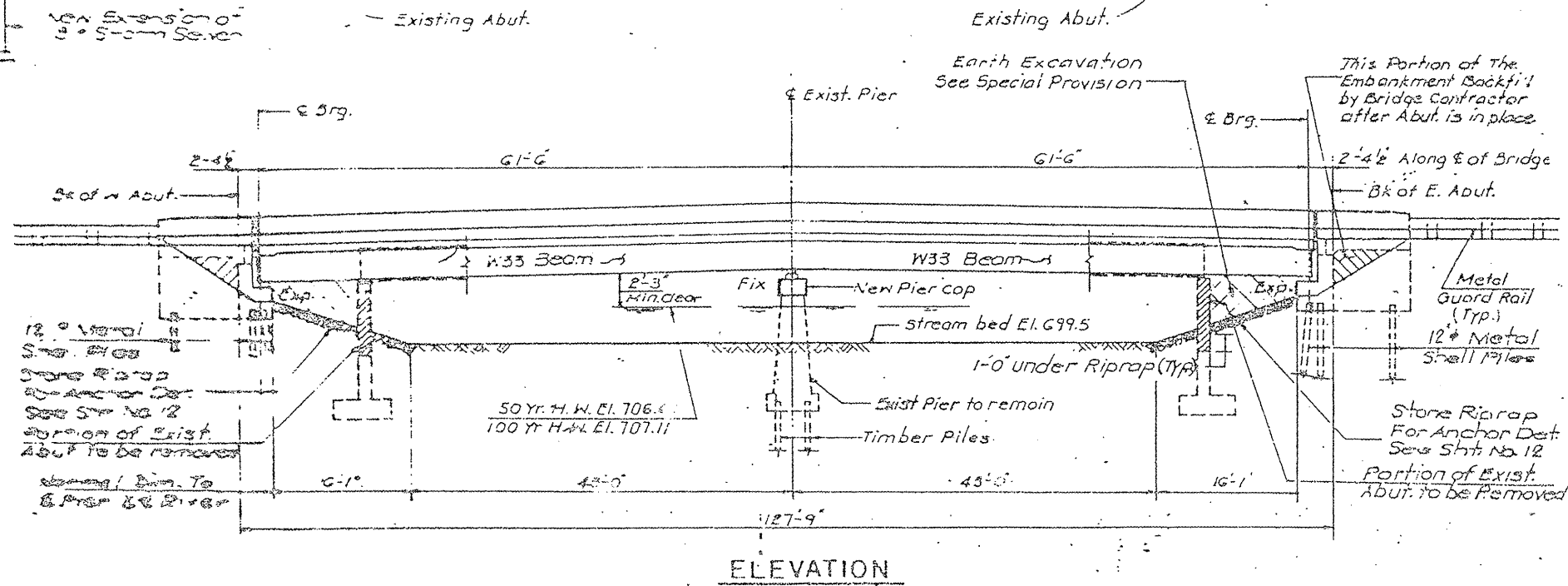
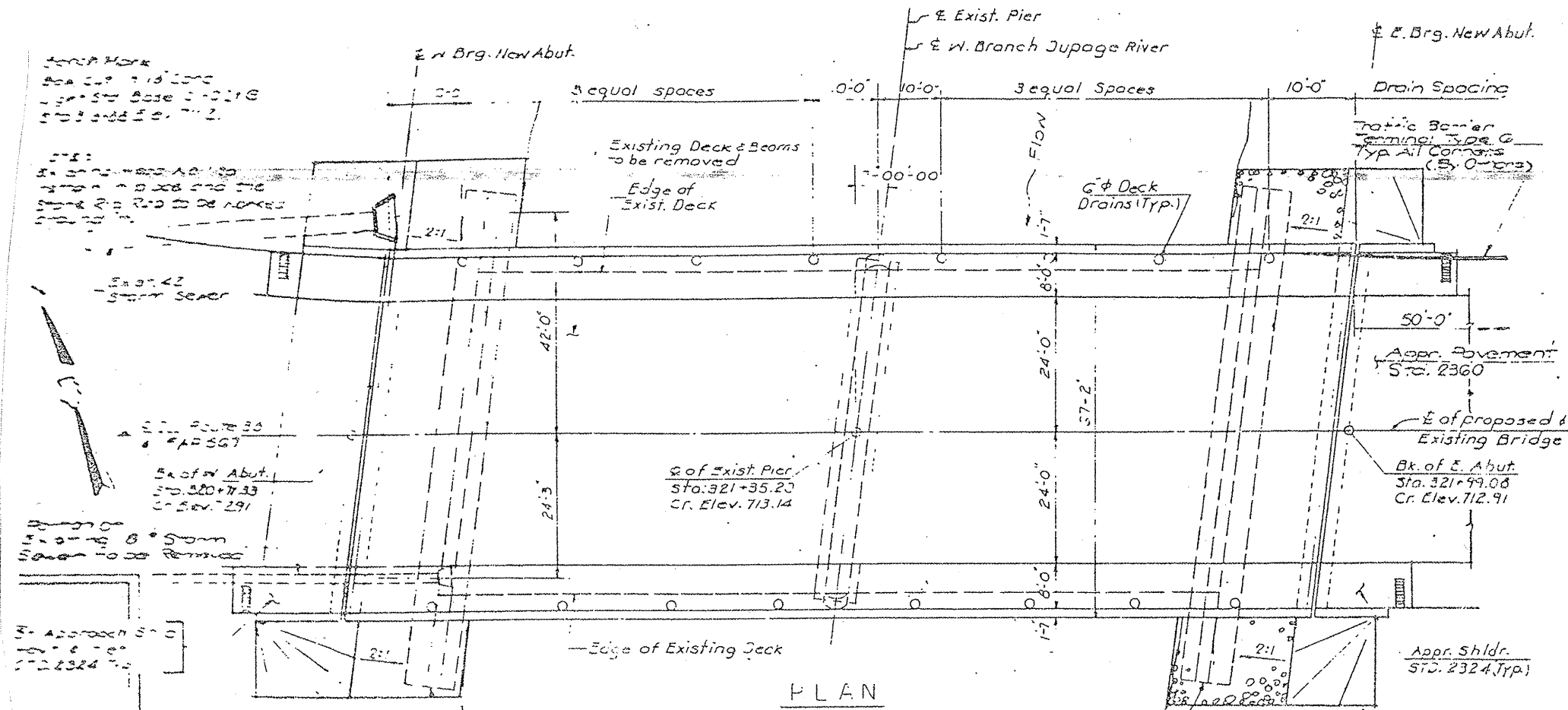
LOCATION NO. 5

EXIST. BRIDGE PLANS
US 12 NB & SB OVER IL 176
SN'S 049-0022, 049-0023

NAKAWATASE, NUTKOWSKI, WYNN & SUTHERLAND, INC.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	30

CONTRACT NO. 60F04



LOCATION NO. 6

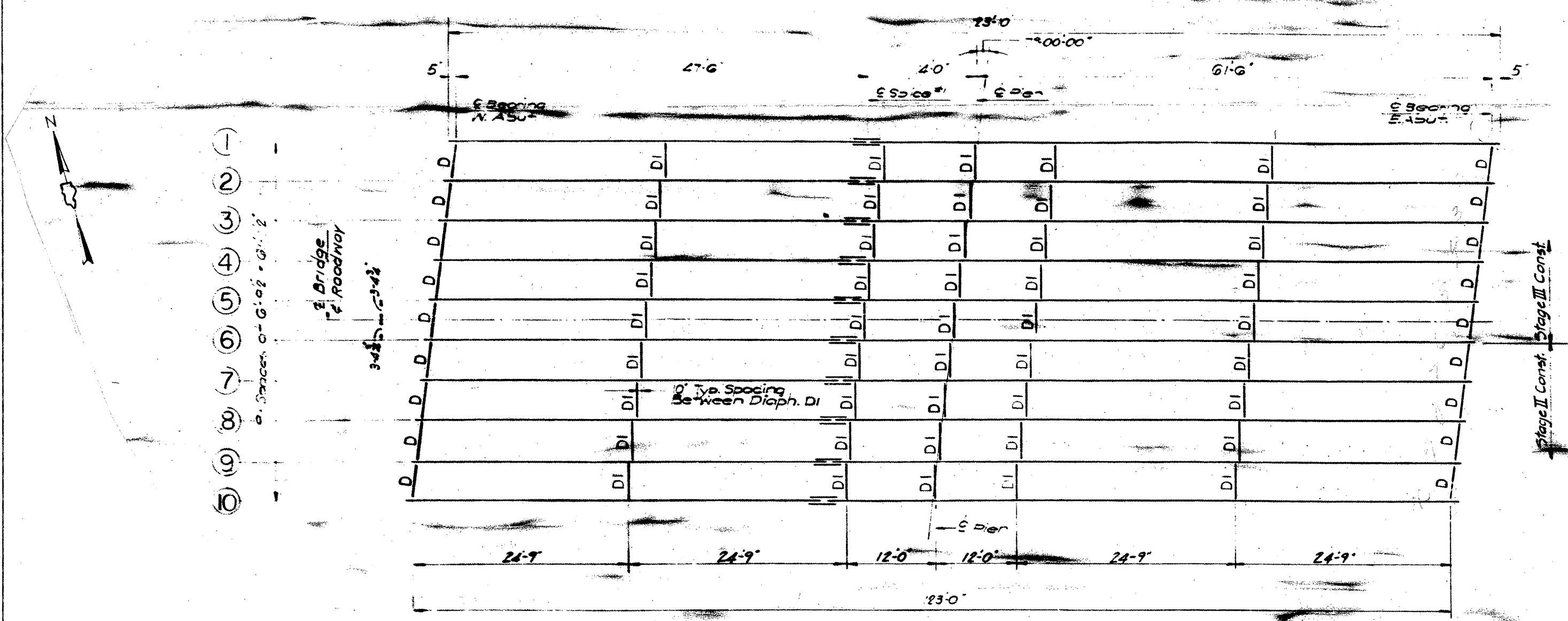
EXIST. BRIDGE PLANS

IL 38 OVER W. BR. DUPAGE

RIVER SN 022-0022

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	31

CONTRACT NO. 60F04



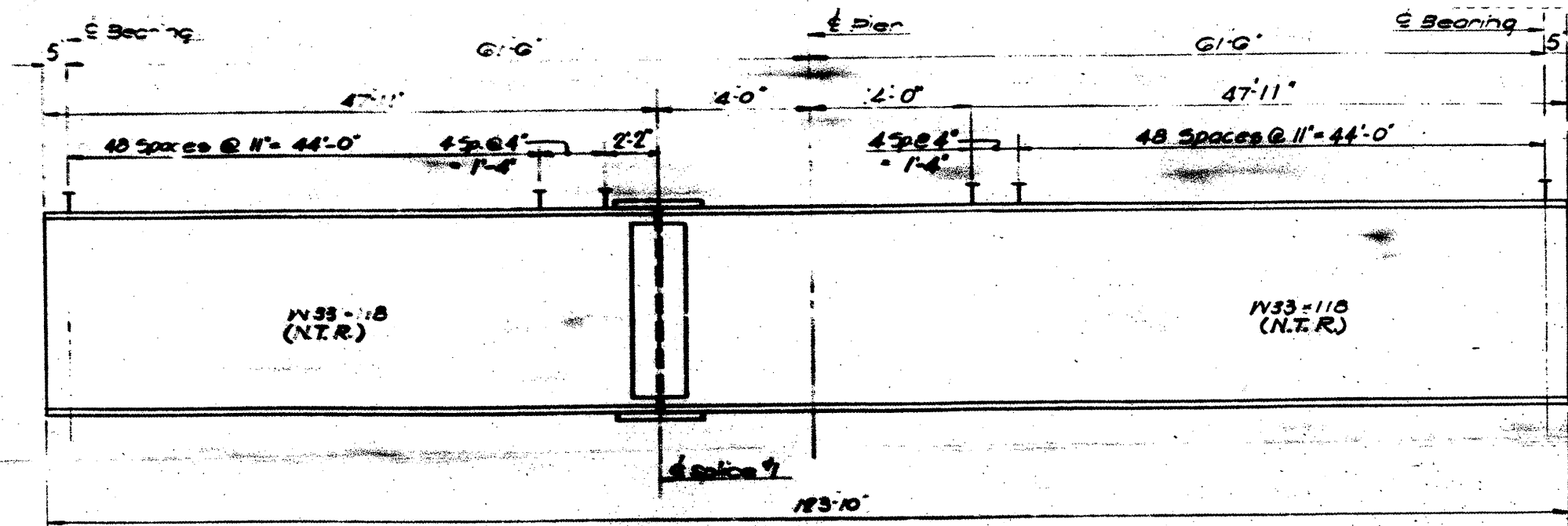
FRAMING PLAN

LOCATION NO. 6

EXIST. BRIDGE PLANS
IL 38 OVER W. BR. DUPAGE
RIVER SN 022-0022

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	32

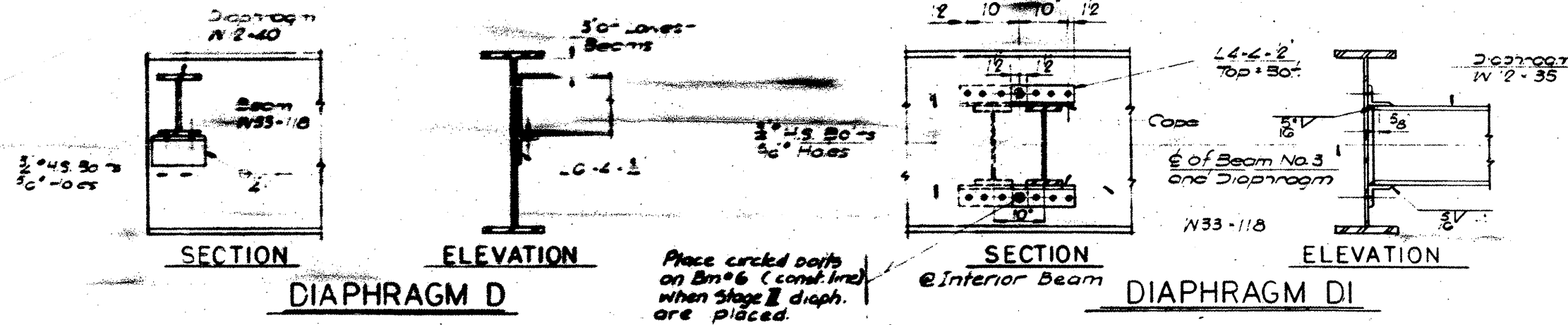
CONTRACT NO. 60F04



TYPICAL BEAM ELEVATION

N.T.R. Denotes: Notch Toughness Requirement

NOTE: See sheet # 12 for Splice Detail

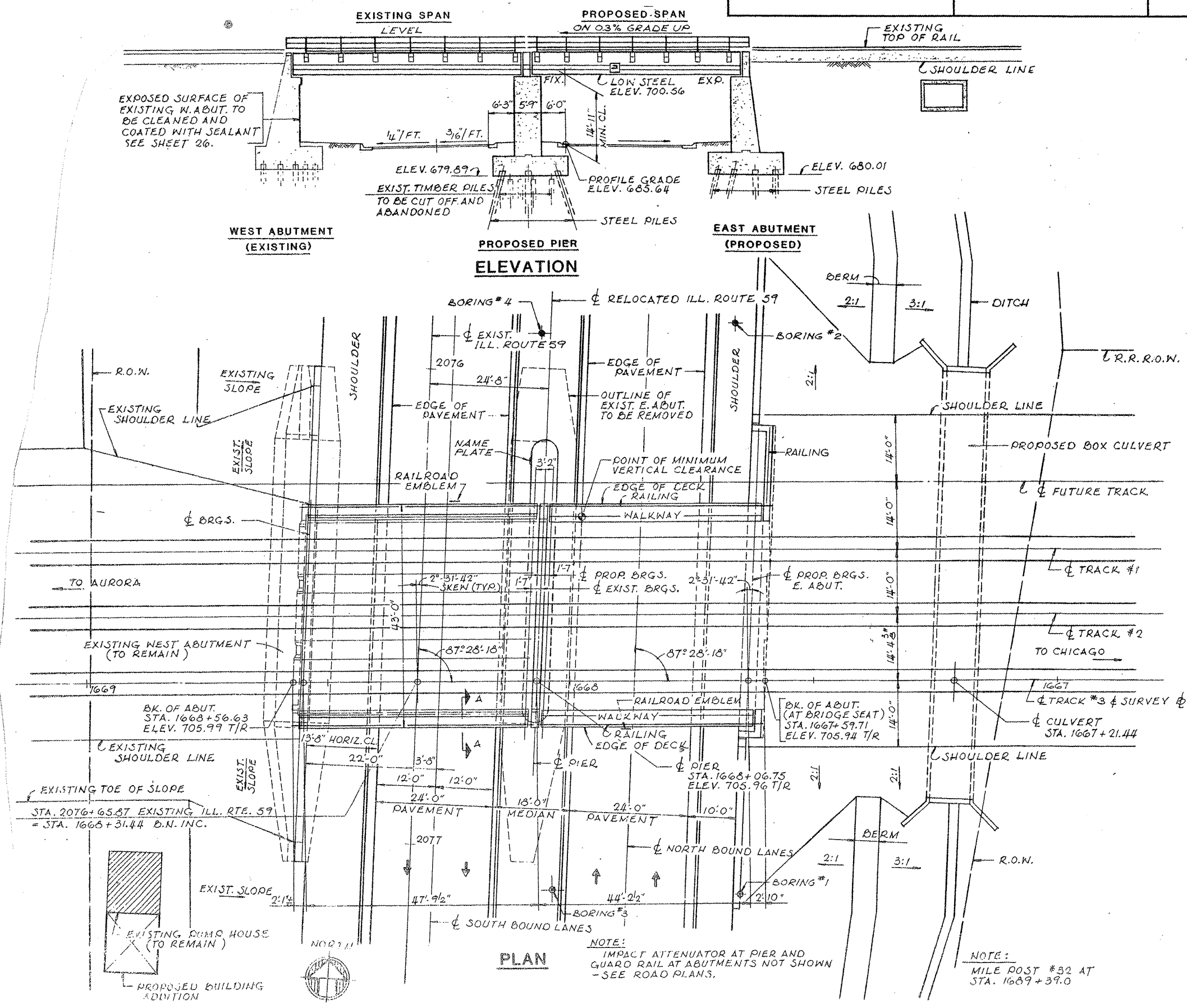


Place circled bolts on Bm #6 (const. line) when Stage II diaph. are placed.

LOCATION NO. 6
EXIST. BRIDGE PLANS
IL 38 OVER W. BR. DUPAGE
RIVER SN 022-0022

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 33
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CONTRACT NO. 60F04



PLAN

NOTE:
IMPACT ATTENUATOR AT PIER AND
GUARD RAIL AT ABUTMENTS NOT SHOWN
- SEE ROAD PLANS.

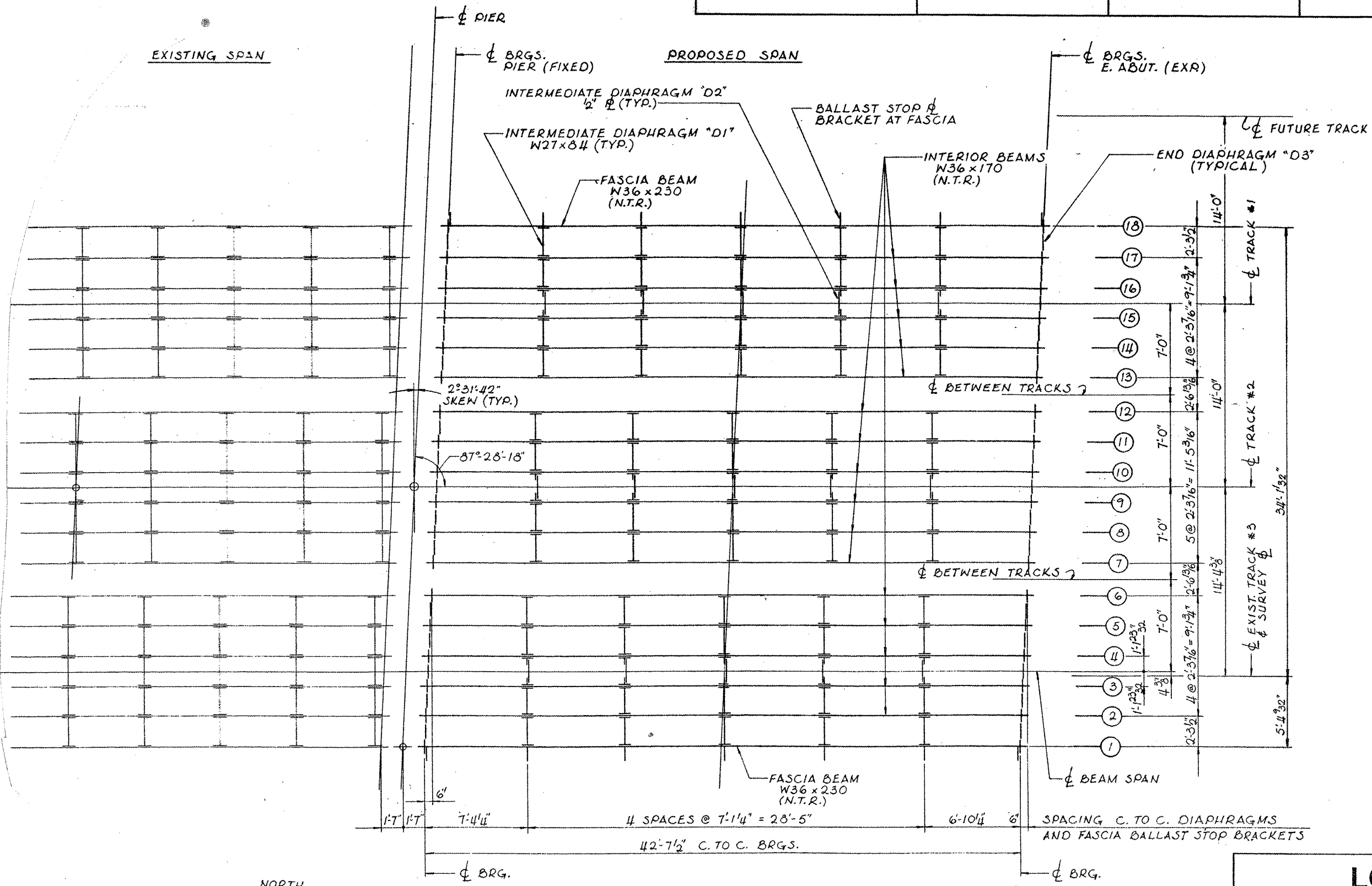
NOTE:
MILE POST #32 AT
STA. 1689+39.0

LOCATION NO. 7

EXIST. BRIDGE PLANS
BNSF RR OVER IL 59
SN 022-0038

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 34
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CONTRACT NO. 60F04

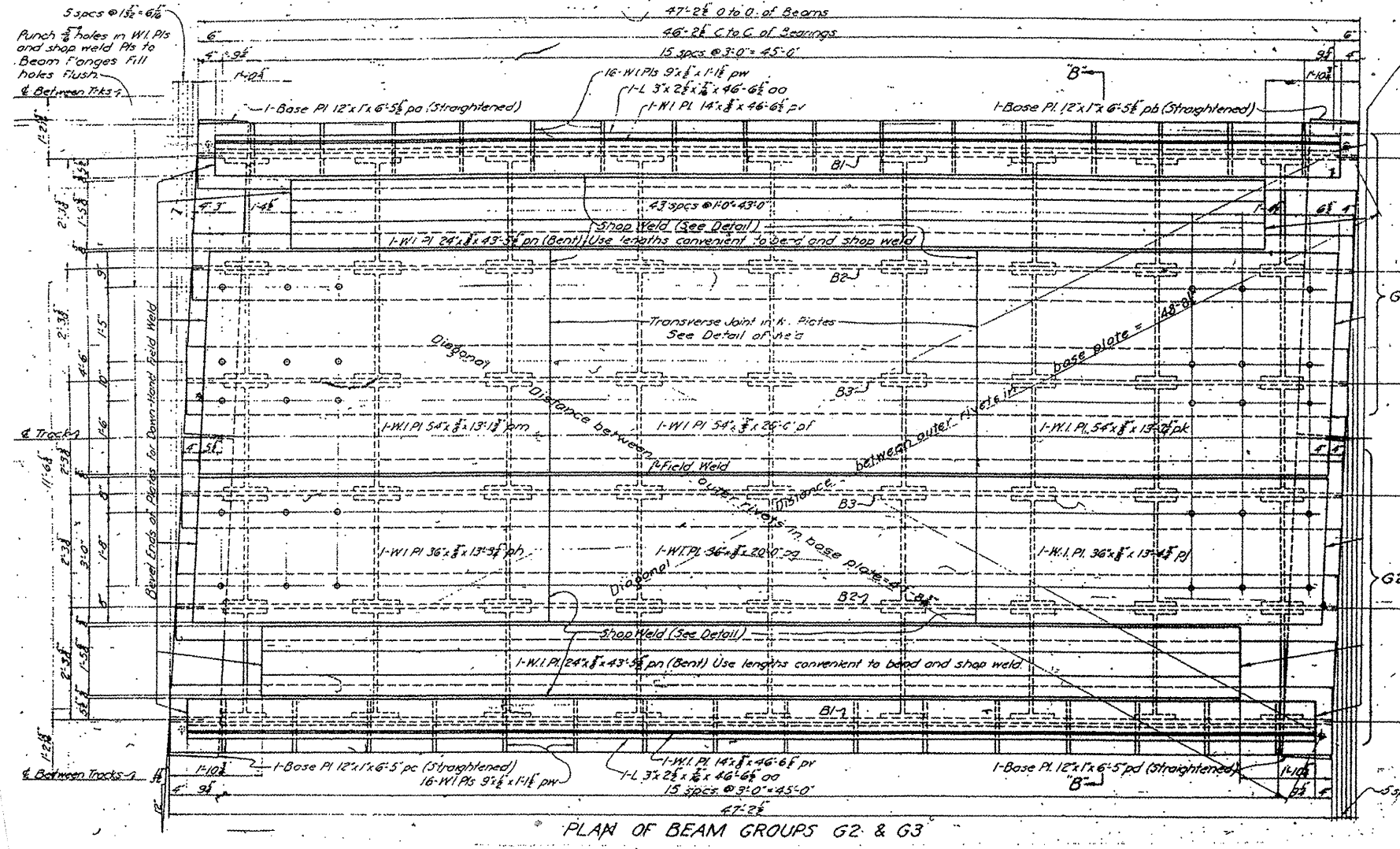


FRAMING PLAN
(SPAN 2)

LOCATION NO. 7
EXIST. BRIDGE PLANS
BNSF RR OVER IL 59
SN 022-0038

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	36

CONTRACT NO. 60F04



LOCATION NO. 7

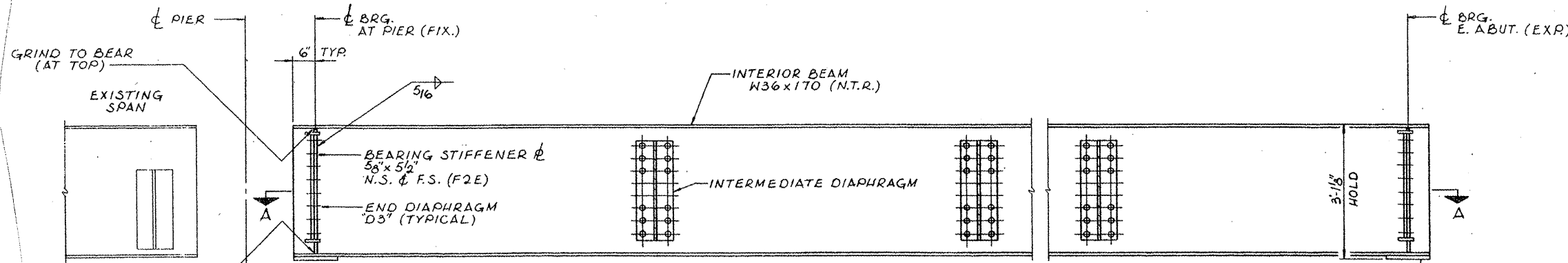
EXIST. BRIDGE PLANS

BNSF RR OVER IL 59

SN 022-0038

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	37

CONTRACT NO. 60F04

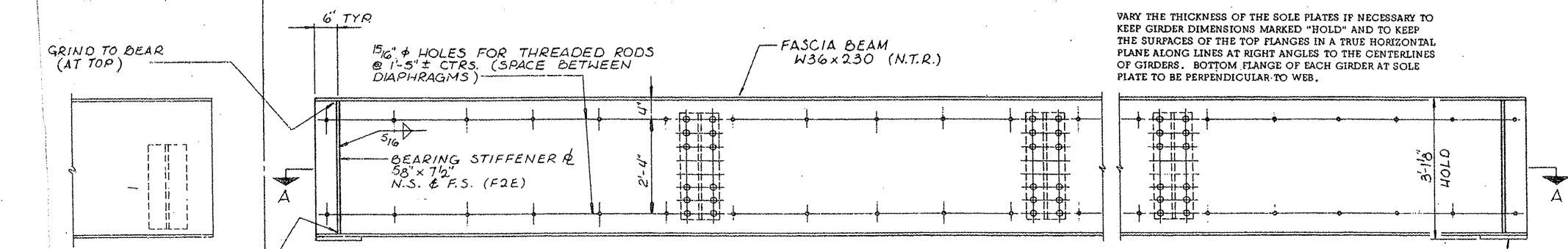


ELEVATION OF INTERIOR BEAM

NOTE:
(N.T.R.) INDICATES NOTCH TOUGHNESS REQUIREMENT

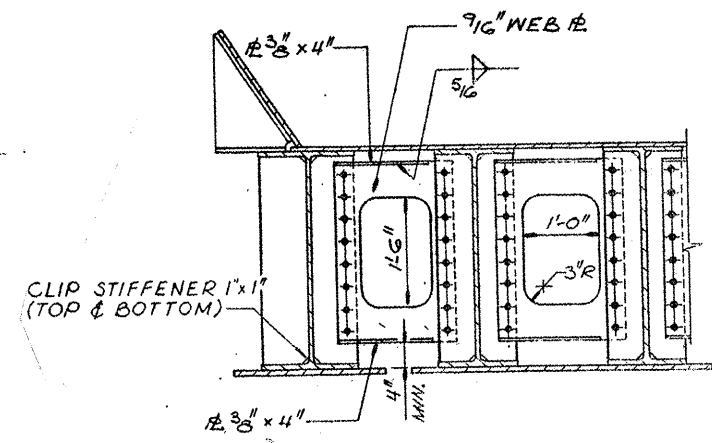
*NOTE:
VARY THE THICKNESS OF THE SOLE PLATES IF NECESSARY TO KEEP GIRDER DIMENSIONS MARKED "HOLD" AND TO KEEP THE SURFACES OF THE TOP FLANGES IN A TRUE HORIZONTAL PLANE ALONG LINES AT RIGHT ANGLES TO THE CENTERLINES OF GIRDERS. BOTTOM FLANGE OF EACH GIRDER AT SOLE PLATE TO BE PERPENDICULAR TO WEB.

*SOLE 1"x12" (TYR)



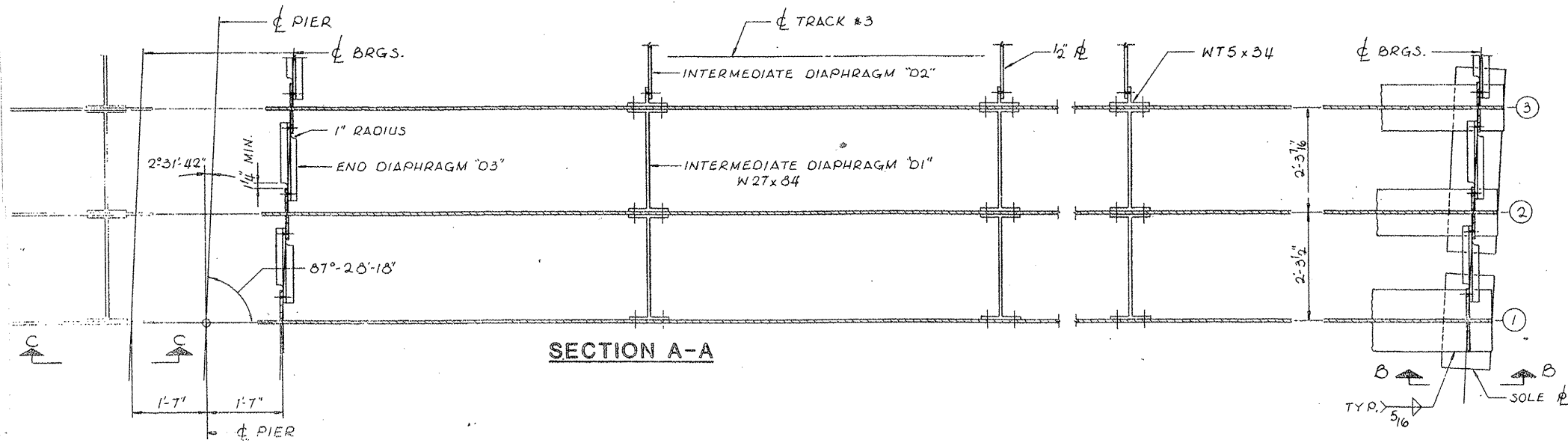
ELEVATION OF FASCIA BEAM

*SOLE 1/2"x12" (TYR)



END DIAPHRAGM "D3"

SCALE: 3/4"=1'-0"

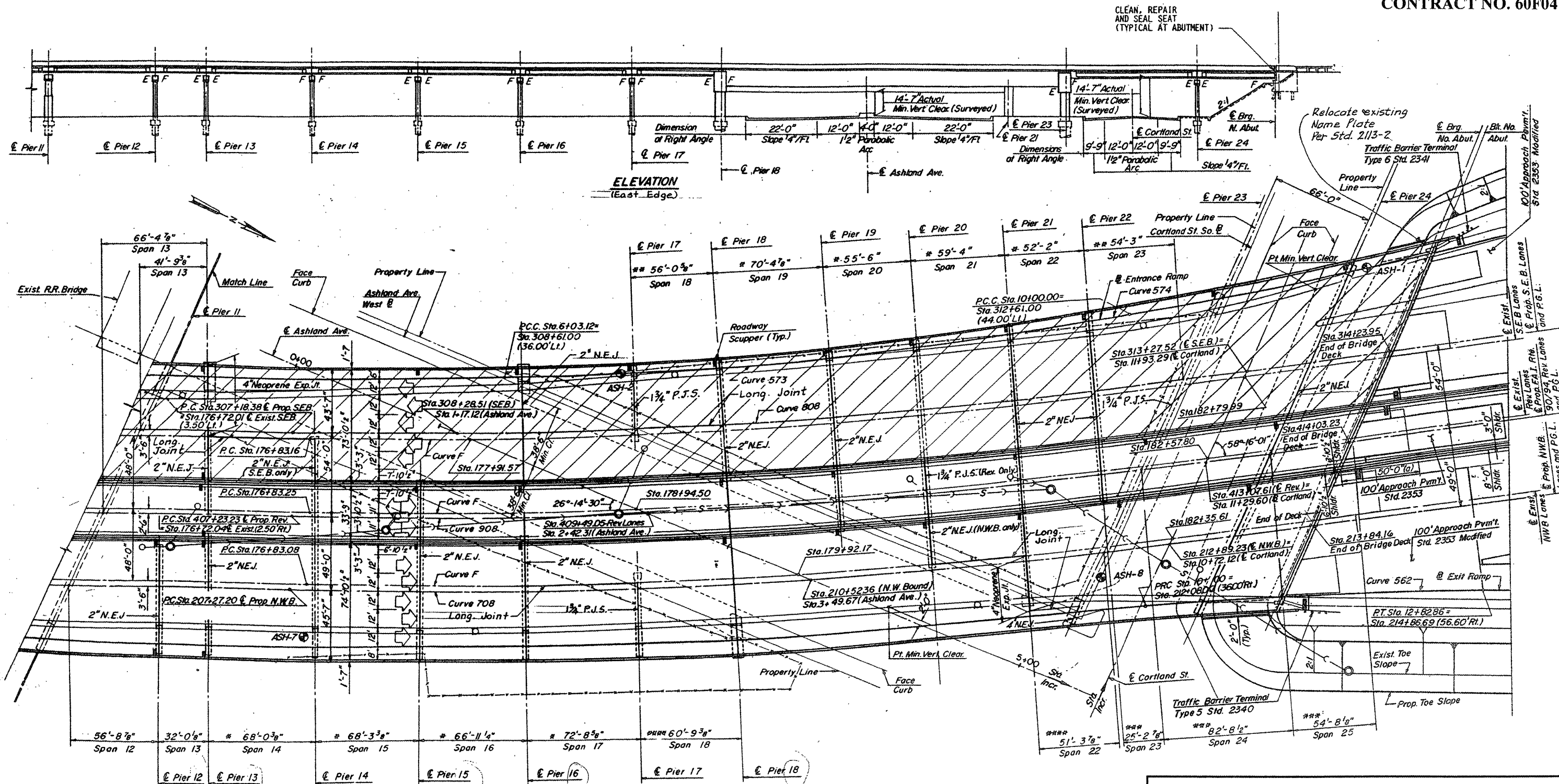


SECTION A-A

LOCATION NO. 7
EXIST. BRIDGE PLANS
BNSF RR OVER IL 59
SN 022-0038

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	38

CONTRACT NO. 60F04



* Measured at Rt. Angles to \odot Substructure
 ** Measured along \odot S.E. Bound Lanes
 *** Measured along \odot Reversible Lanes
 **** Measured along \odot N.W. Bound Lanes

PLAN

LOCATION NO. 8

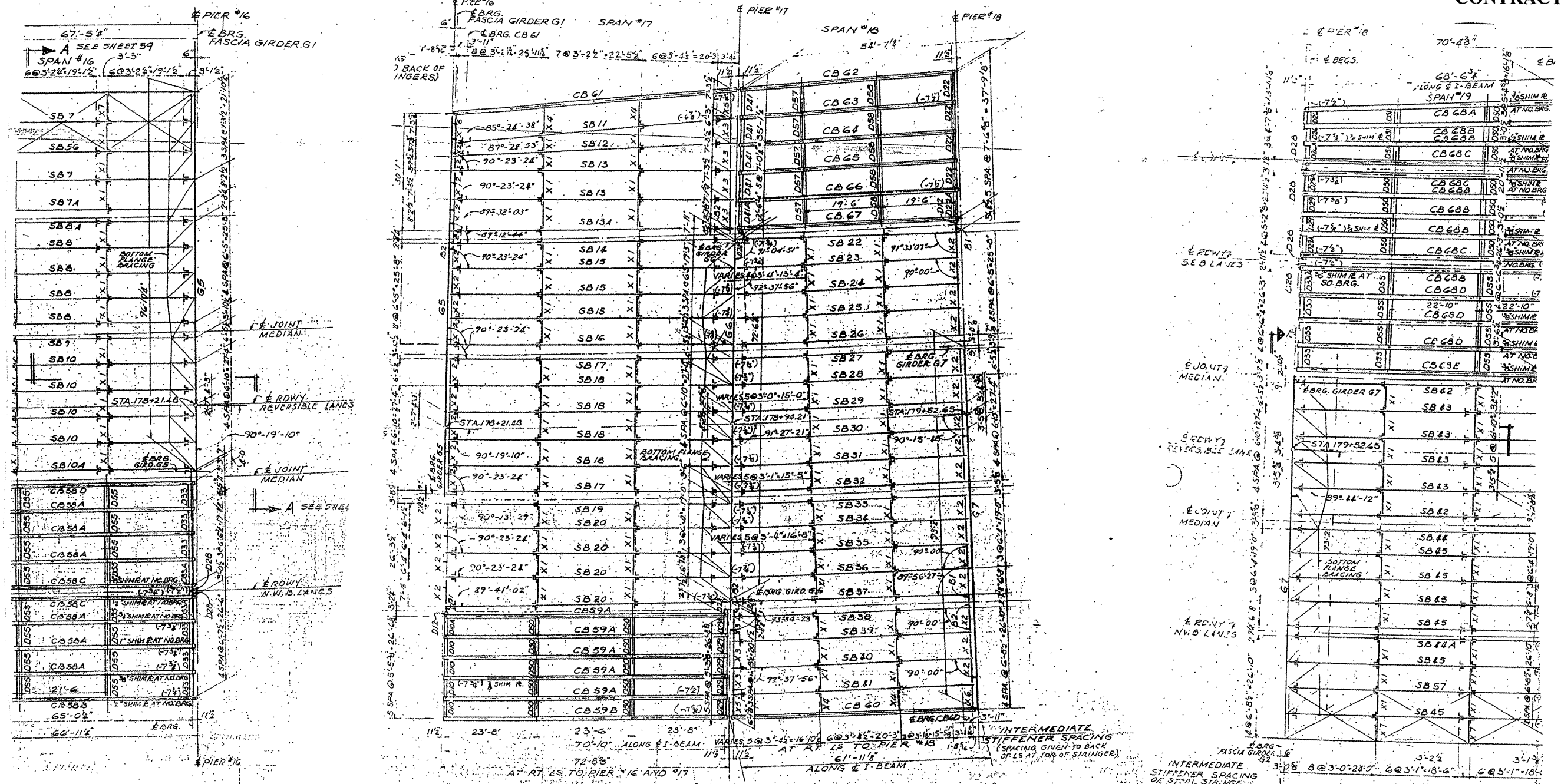
EXIST. BRIDGE PLANS

I-90/94 OVER ASHLAND AVE.

SN 016-0133

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 39
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CONTRACT NO. 60F04



NOTE: PIER #16 IS PARALLEL TO PIER #17.
FRAMING PLAN
 SPANS NO. 17 & 18
 SCALE: 3/8" = 1'-0"

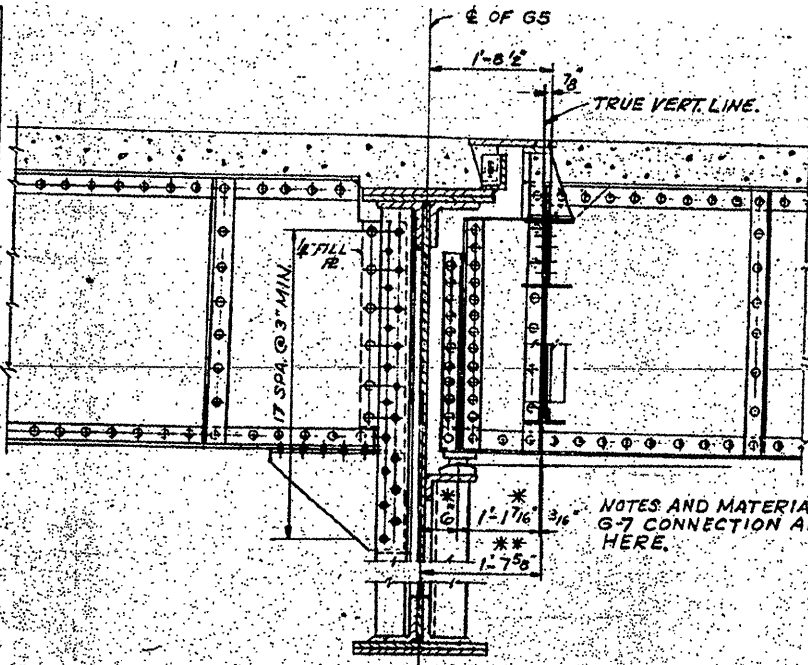
INTERMEDIATE STIFFENER SPACING (SPACING GIVEN TO BACK OF LS AT TOP OF STRINGERS)
 INTERMEDIATE STIFFENER SPACING OR STRIP STRINGERS (SPACING GIVEN TO BK OF LS AT TOP OF STRINGERS)

LOCATION NO. 8
EXIST. BRIDGE PLANS
I-90/94 OVER ASHLAND AVE.
SN 016-0133

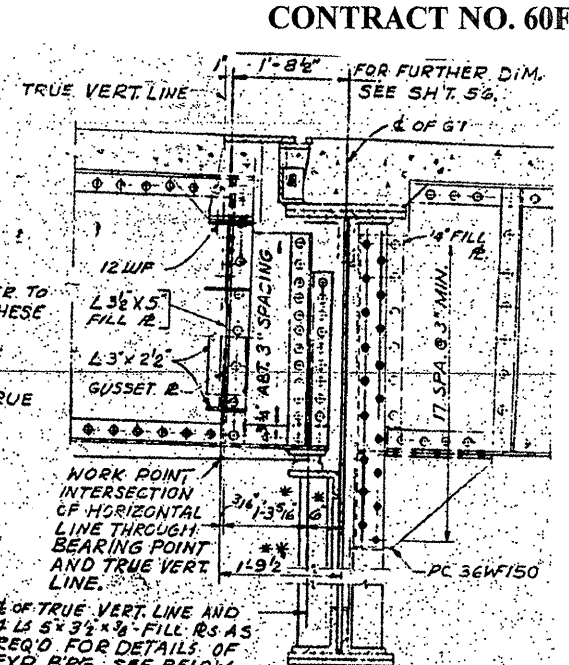
ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 40
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STEEL STRINGER SCHEDULE

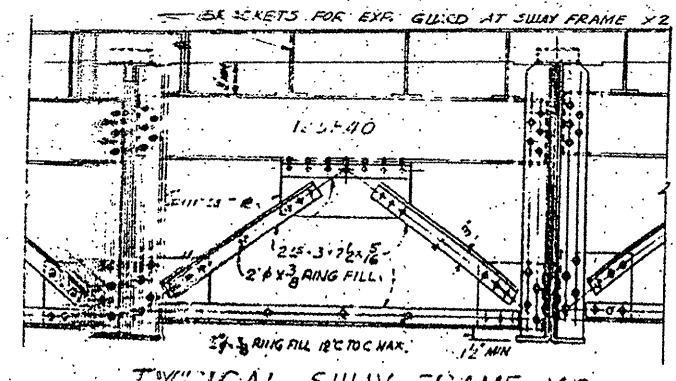
STEEL STRINGER NUMBER	DISTANCE E OF BEARING TO CROSS GIRDER	DISTANCE E OF BEARING TO CROSS GIRDER	TOP ANGLE	BOTTOM ANGLE	FIRST BOTTOM COVER PLATE	SECOND BOTTOM COVER PLATE	SHEAR CONNECTOR SPACING	RIVET SPACING				CAMBER DIM. Y.
								PANEL A	PANEL B	PANEL C	PANEL D	
SB 1	67'-0"		4x4 1/2	6x4 1/2	13x2x40-0		27@6' 9@9' 8@12' 15" MAX.	4"	4 1/2"	5"	6"	9/16"
SB 2	67'-1 1/2"		4x4 1/2	6x4 1/2	13x2x28-0		17@9' 7@12' 4@15' 18" MAX.	4"	4 1/2"	5"	6"	7/16"
SB 3	68'-3 3/8"		4x4 1/2	6x4 1/2	13x2x40-0		27@6' 9@9' 8@12' 15" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	9/16"
SB 4	68'-3 3/8"		4x4 1/2	6x4 1/2	13x2x33-6		21@6' 11@9' 6@12' 4@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	7/16"
SB 5	67'-3 3/8"		4x4 1/2	6x4 1/2	13x2x33-6		21@6' 11@9' 6@12' 4@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	7/16"
SB 6	67'-3 3/8"		4x4 1/2	6x4 1/2	13x2x33-6		21@6' 11@9' 6@12' 4@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	7/16"
SB 7	66'-11 1/8"		4x4 1/2	6x4 1/2	13x2x31-6		30@6' 10@9' 8@12' 15" MAX.	4"	4 1/2"	5"	5 3/4"	1/2"
SB 7A												
SB 7B												
SB 8	66'-11 1/8"		4x4 1/2	6x4 1/2	13x2x31-6		30@6' 10@9' 8@12' 15" MAX.	4"	4 1/2"	5"	5 3/4"	1/2"
SB 8A												
SB 8B												
SB 9	65'-11 1/8"		4x4 1/2	6x4 1/2	13x2x31-6		30@6' 10@9' 8@12' 15" MAX.	4"	4 1/2"	5"	5 3/4"	1/2"
SB 9A												
SB 9B												
SB 10	65'-11 1/8"		4x4 1/2	6x4 1/2	13x2x31-6		30@6' 10@9' 8@12' 15" MAX.	4"	4 1/2"	5"	5 3/4"	1/2"
SB 10A												
SB 10B												
SB 11	71'-6 1/8"	DISTANCE E OF BEARING TO E OF BEARING	4x4 1/2	6x4 1/2	13x2x46-0		21@6' 15@9' 6@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 12	71'-4 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		21@6' 15@9' 6@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 13	71'-3 3/4"		4x4 1/2	6x4 1/2	13x2x46-0	13x2x33-6	27@6' 14@9' 7@12' 15" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 13A												
SB 13B												
SB 14	72'-2 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		21@9' 5@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 15	72'-2 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		21@9' 5@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 16	72'-2 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		21@9' 5@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 17	72'-2 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		4@18' 24" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 18	72'-2 3/8"		4x4 1/2	6x4 1/2	13x2x46-0	13x2x33-6	27@6' 14@9' 7@12' 15" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 19	71'-9 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		4@18' 24" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 20	71'-9 1/8"		4x4 1/2	6x4 1/2	13x2x46-0	13x2x32-0	21@6' 15@9' 6@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 21	54'-6 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		18@6' 13@9' 4@12' 15" MAX.	4"	4 1/2"	4 3/4"	5 3/4"	5/8"
SB 22	55'-4 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		22@6' 11@9' 5@12' 15" MAX.	4"	4 1/2"	5"	6"	3/16"
SB 23	55'-8 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		15@6' 12@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	1/4"
SB 24	55'-11 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		15@6' 12@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	1/4"
SB 25	56'-3 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		15@6' 12@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	1/4"
SB 26	56'-7 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		7@18' 24" MAX.	4"	4 1/2"	5"	6"	3/8"
SB 27	57'-2 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		7@18' 24" MAX.	4"	4 1/2"	5"	6"	2"
SB 28	57'-6 3/8"		4x4 1/2	6x4 1/2	13x2x25-6		24@6' 8@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	5/16"
SB 29	57'-9 3/8"		4x4 1/2	6x4 1/2	13x2x25-6		24@6' 8@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	5/16"
SB 30	58'-1 1/8"		4x4 1/2	6x4 1/2	13x2x25-6		24@6' 8@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	5/16"
SB 31	58'-5 1/8"		4x4 1/2	6x4 1/2	13x2x25-6		24@6' 8@9' 5@12' 3@15' 18" MAX.	4"	4 1/2"	5"	6"	5/16"
SB 32	58'-9 1/8"		4x4 1/2	6x4 1/2	13x2x25-6		3@12' 5@15' 7@18' 24" MAX.	4"	4 1/2"	5"	6"	1/2"
SB 33	58'-11 3/8"		4x4 1/2	6x4 1/2	13x2x25-6		3@12' 5@15' 7@18' 24" MAX.	4"	4 1/2"	5"	6"	1/2"
SB 34	59'-2 1/8"		4x4 1/2	6x4 1/2	13x2x29-6		13@6' 12@9' 8@12' 2@15' 18" MAX.	4"	4 1/2"	5 1/4"	6"	5/16"
SB 35	59'-6 1/8"		4x4 1/2	6x4 1/2	13x2x29-6		13@6' 12@9' 8@12' 2@15' 18" MAX.	4"	4 1/2"	5 1/4"	6"	5/16"
SB 36	59'-9 1/8"		4x4 1/2	6x4 1/2	13x2x29-6		13@6' 12@9' 8@12' 2@15' 18" MAX.	4"	4 1/2"	5 1/4"	6"	5/16"
SB 37	60'-1 1/8"		4x4 1/2	6x4 1/2	13x2x29-6		25@6' 8@9' 5@12' 15" MAX.	4"	4 1/2"	5 1/4"	6"	1/4"
SB 38	59'-3 1/8"		4x4 1/2	6x4 1/2	13x2x29-6		25@6' 8@9' 5@12' 15" MAX.	4"	4 1/2"	5 1/4"	6"	1/4"
SB 39	59'-7 1/8"	DISTANCE E OF BEARING TO E OF BEARING	4x4 1/2	6x4 1/2	13x2x29-6		24@6' 8@9' 3@12' 15" MAX.	4"	4 1/2"	5 1/4"	6"	3/8"
SB 40	59'-10 1/8"		4x4 1/2	6x4 1/2	13x2x29-6		24@6' 8@9' 3@12' 15" MAX.	4"	4 1/2"	5 1/4"	6"	3/8"
SB 41	60'-2 3/8"		4x4 1/2	6x4 1/2	13x2x29-6		24@6' 8@9' 3@12' 15" MAX.	4"	4 1/2"	5 1/4"	6"	3/8"
SB 42	69'-5 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		24" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	7/8"
SB 43	69'-5 3/8"		4x4 1/2	6x4 1/2	13x2x31-0	13x2x22-0	27@6' 14@9' 7@12' 15" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	1/2"
SB 44	70'-5 3/8"		4x4 1/2	6x4 1/2	13x2x38-0		4@18' 24" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	5/8"
SB 45	70'-5 3/8"		4x4 1/2	6x4 1/2	13x2x42-0	13x2x28-6	22@6' 15@9' 6@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	7/16"
SB 46	54'-6 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		6@12' 4@15' 6@18' 24" MAX.	4"	4 1/2"	5 1/2"	6"	3/8"
SB 47	54'-6 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		18@6' 13@9' 4@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	7/16"
SB 48	54'-6 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		18@6' 13@9' 4@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	7/16"
SB 49	55'-6 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		18@6' 13@9' 4@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	7/16"
SB 50	55'-6 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		18@6' 13@9' 4@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	7/16"
SB 51	58'-5 1/8"		4x4 1/2	6x4 1/2	13x2x33-6		21@6' 8@9' 6@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	1/4"
SB 52	58'-4 1/8"		4x4 1/2	6x4 1/2	13x2x28-0		22@6' 8@9' 7@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	5/16"
SB 53	58'-4 1/8"		4x4 1/2	6x4 1/2	13x2x28-0		22@6' 8@9' 7@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	5/16"
SB 54	67'-0 3/8"		4x4 1/2	6x4 1/2	13x2x46-0		27@6' 9@9' 8@12' 15" MAX.	4"	4 1/2"	5"	6"	9/16"
SB 55	68'-3 3/8"		4x4 1/2	6x4 1/2	13x2x46-0	13x2x30-0	27@6' 9@9' 8@12' 15" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	1/2"
SB 56	66'-11 1/8"		4x4 1/2	6x4 1/2	13x2x46-0	13x2x30-0	30@6' 10@9' 8@12' 15" MAX.	4"	4 1/2"	5"	5 3/4"	1/2"
SB 57	70'-5 3/8"		4x4 1/2	6x4 1/2	13x2x46-0	13x2x30-0	22@6' 15@9' 6@12' 5@15' 18" MAX.	4"	4 1/2"	4 3/4"	5 1/2"	7/16"
SB 58	55'-6 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		18@6' 13@9' 4@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	1/4"
SB 59	58'-4 1/8"		4x4 1/2	6x4 1/2	13x2x46-0		22@6' 8@9' 7@12' 15" MAX.	4"	4 1/2"	5 1/2"	6"	5/16"



TYPICAL STRINGER-GIRDER CONNECTION AT G-5
SCALE: 3/4" = 1'-0"



TYPICAL STRINGER-GIRDER CONNECTION AT G-7
SCALE: 3/4" = 1'-0"



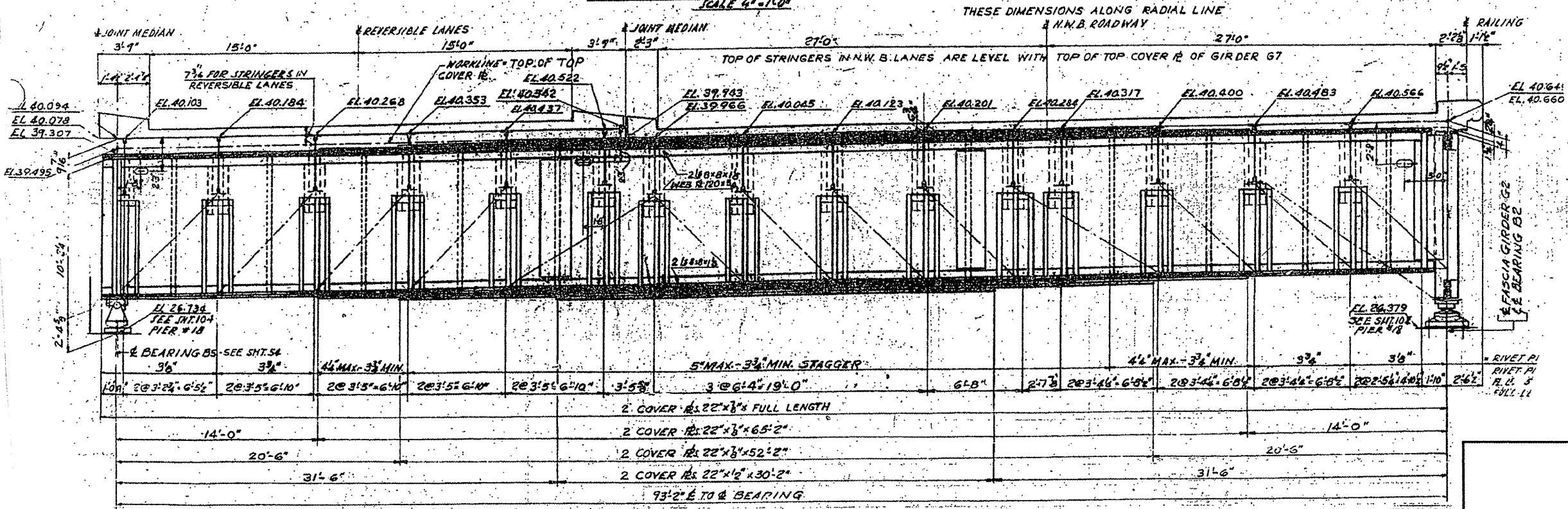
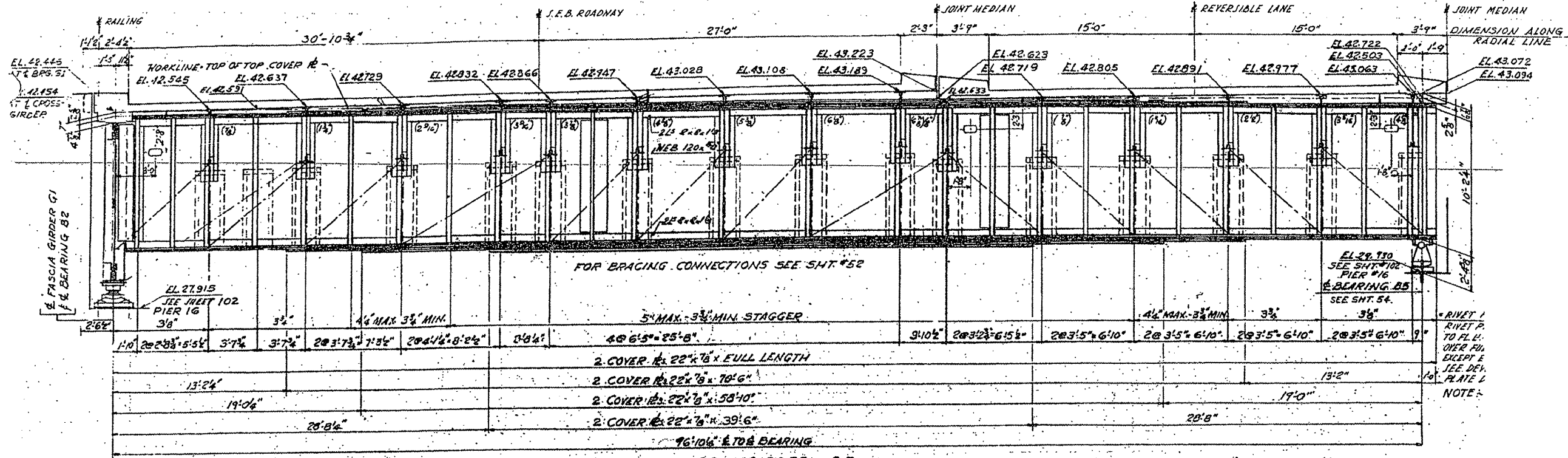
TYPICAL SULTRY FRAME X2
(SUBSTITUTE M.E X3 SAME EXCEPT AS NOTED)
SCALE: 3/4" = 1'-0"

NOTE!
ALL WEB PLATES ARE 48" X 3/8"

LOCATION NO. 8
EXIST. BRIDGE PLANS
I-90/94 OVER ASHLAND AVE.
SN 016-0133

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 41
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CONTRACT NO. 60F04



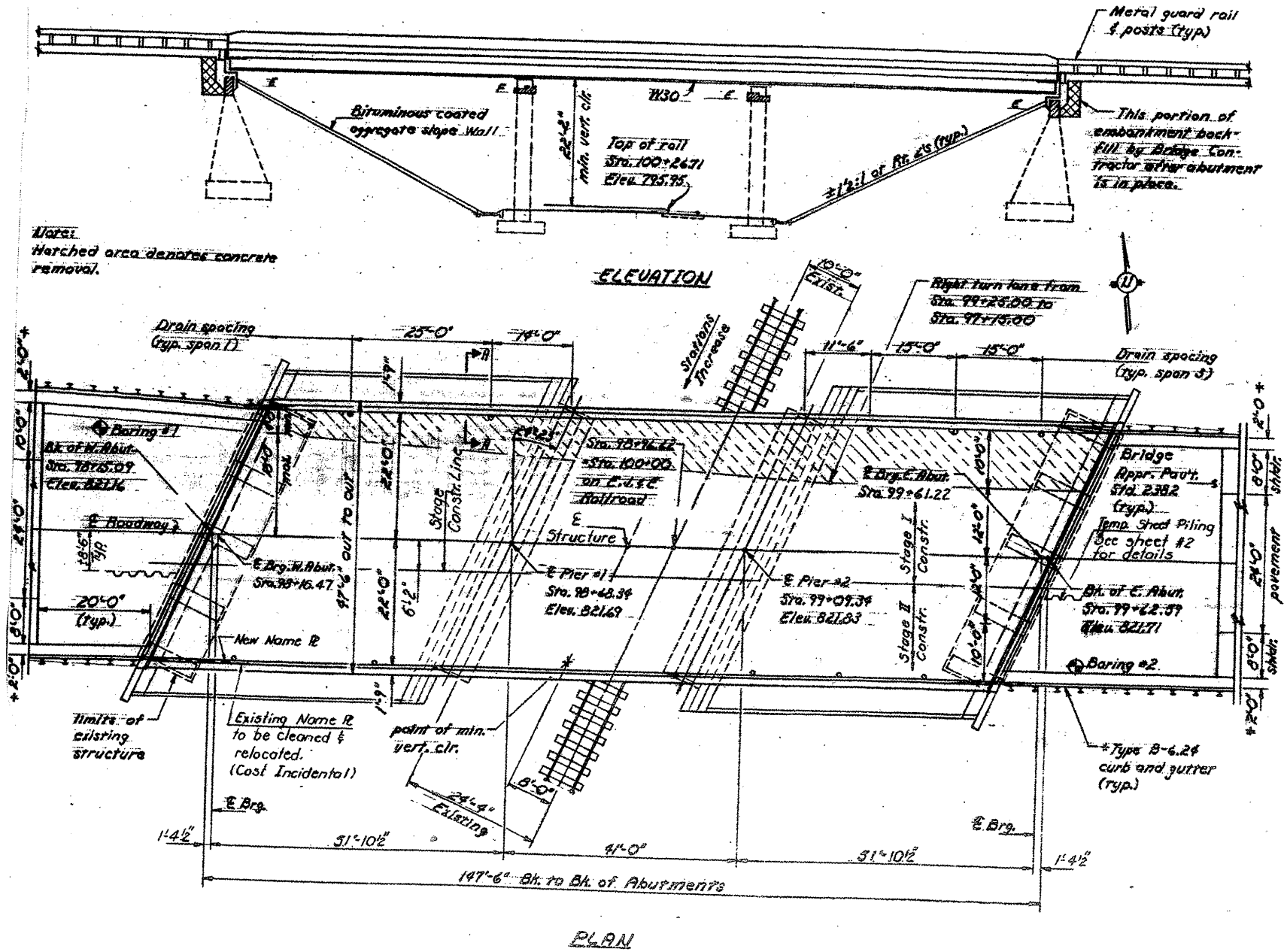
NOTE:
ALL RIVETS IN G5 AND G7
SHALL BE 1/4" IN 1/16" HOLES

APPROVED AS SHOWN BY DIVISIONS OF W
SCALES OF TRACING
4"=1'-0"
0 1/2"=3'-0"
8"=30'-0"

LOCATION NO. 8
EXIST. BRIDGE PLANS
I-90/94 OVER ASHLAND AVE.
SN 016-0133

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	42

CONTRACT NO. 60F04



LOCATION NO. 9

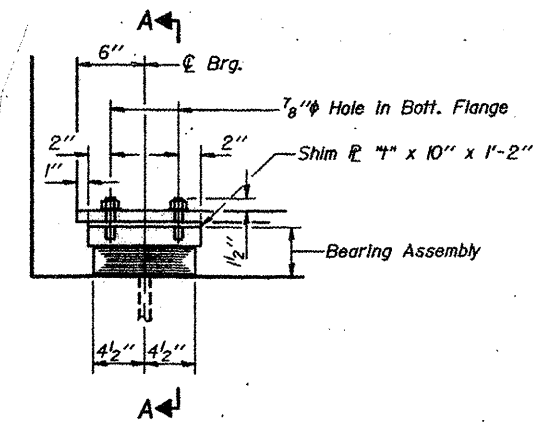
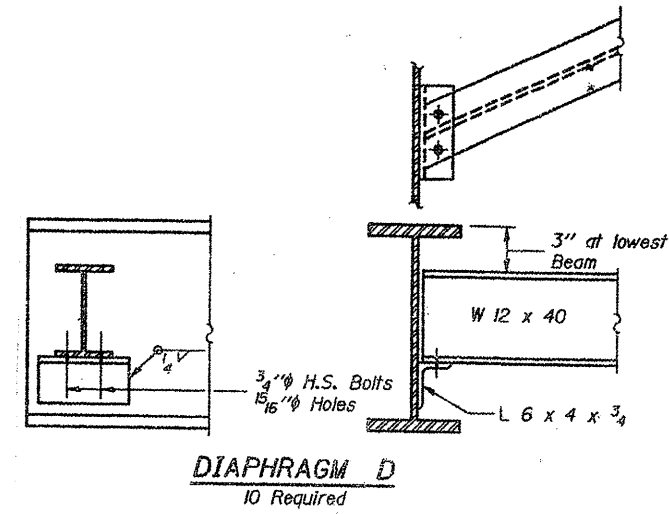
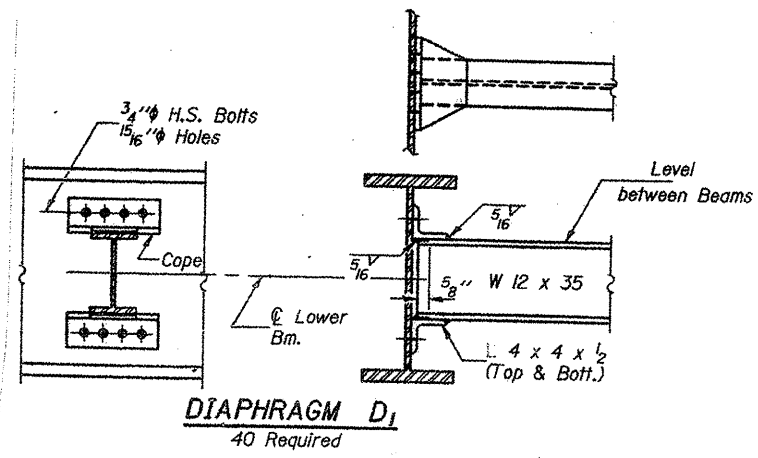
EXIST. BRIDGE PLANS

IL 19 OVER EJ&E RR

SN 016-0948

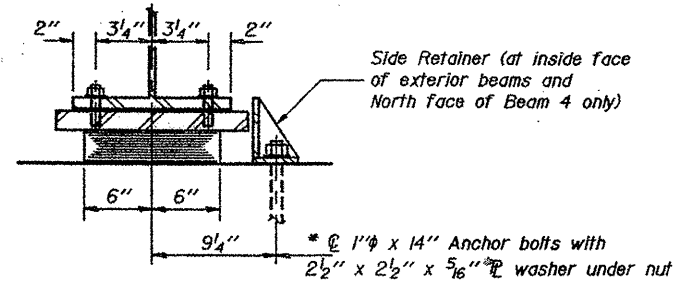
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	44

CONTRACT NO. 60F04

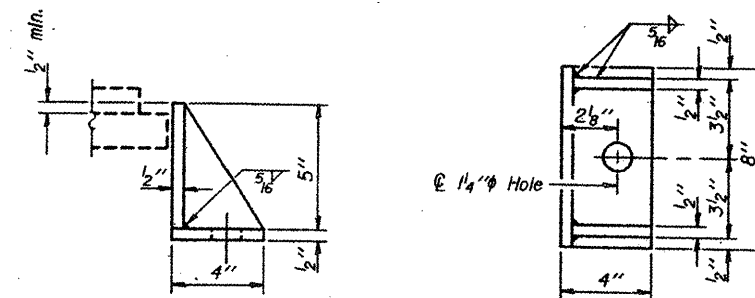


ELEVATION AT ABUTS.

TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A



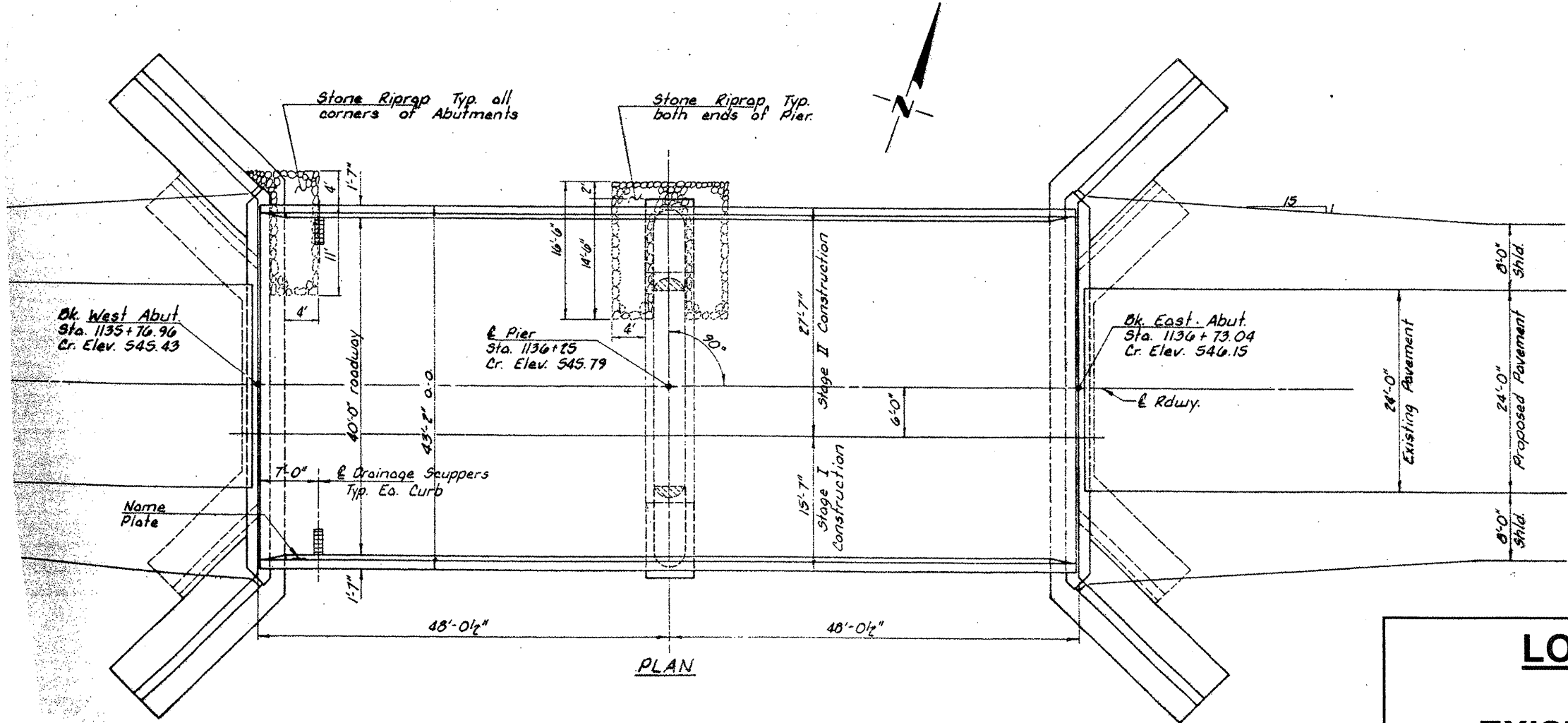
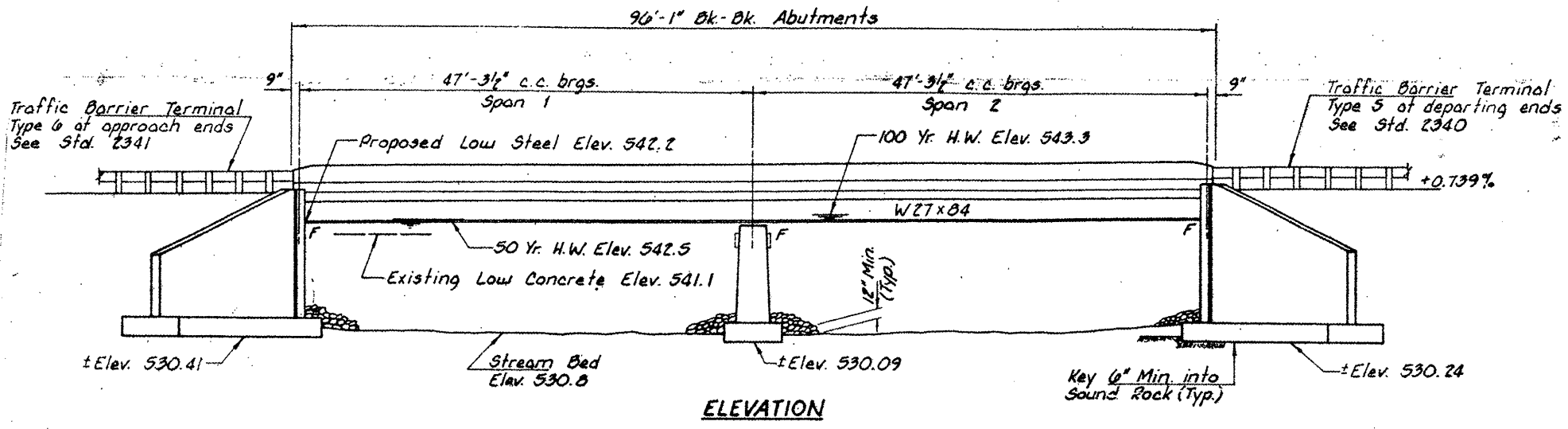
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

LOCATION NO. 9
EXIST. BRIDGE PLANS
IL 19 OVER EJ&E RR
SN 016-0948

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	45

CONTRACT NO. 60F04



LOCATION NO. 10

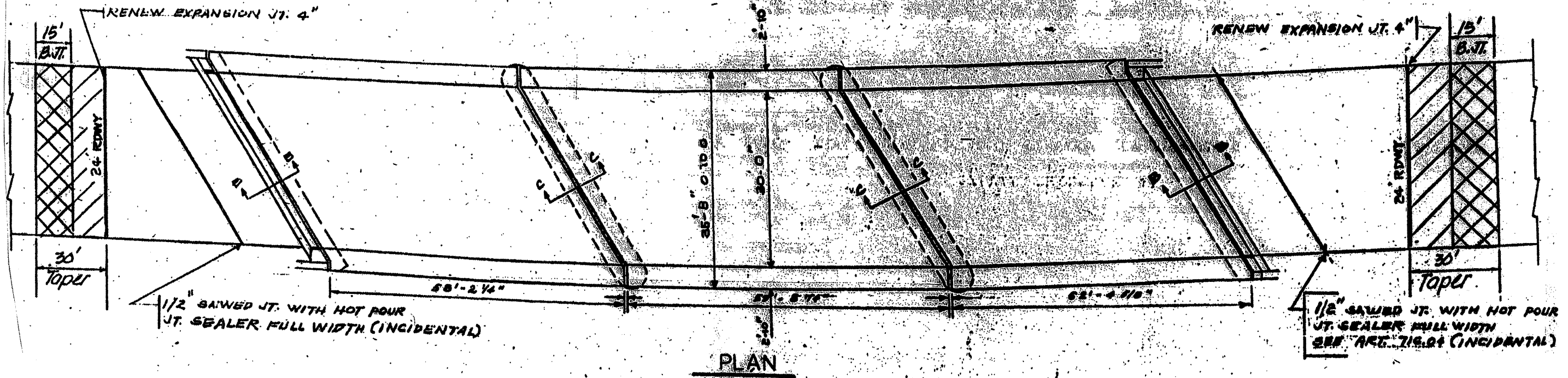
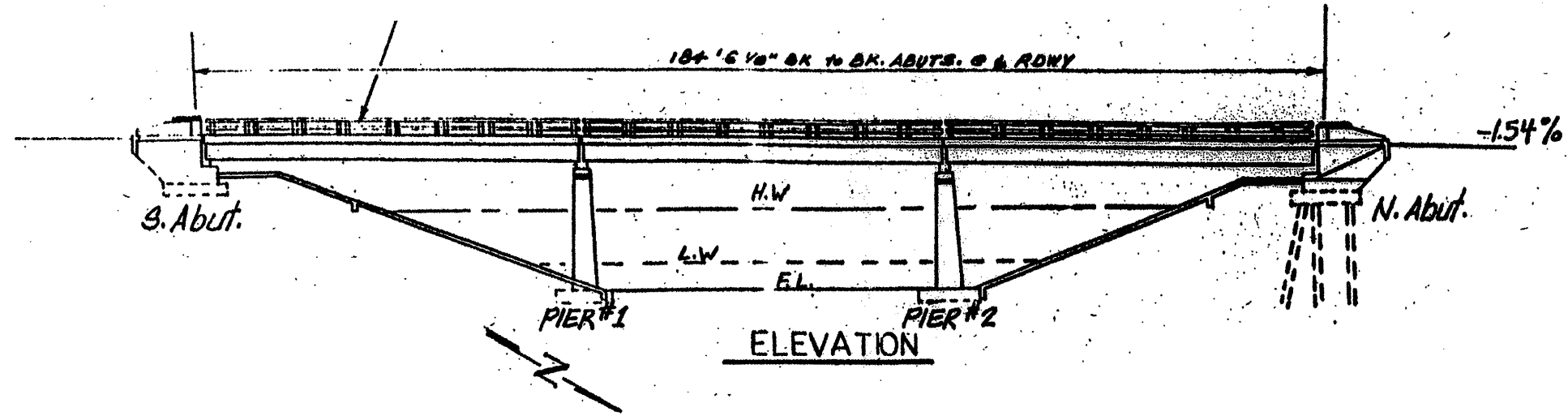
EXIST. BRIDGE PLANS

IL 53 OVER FORKED CREEK

SN 099-0091

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	47

CONTRACT NO. 60F04



LOCATION NO. 11

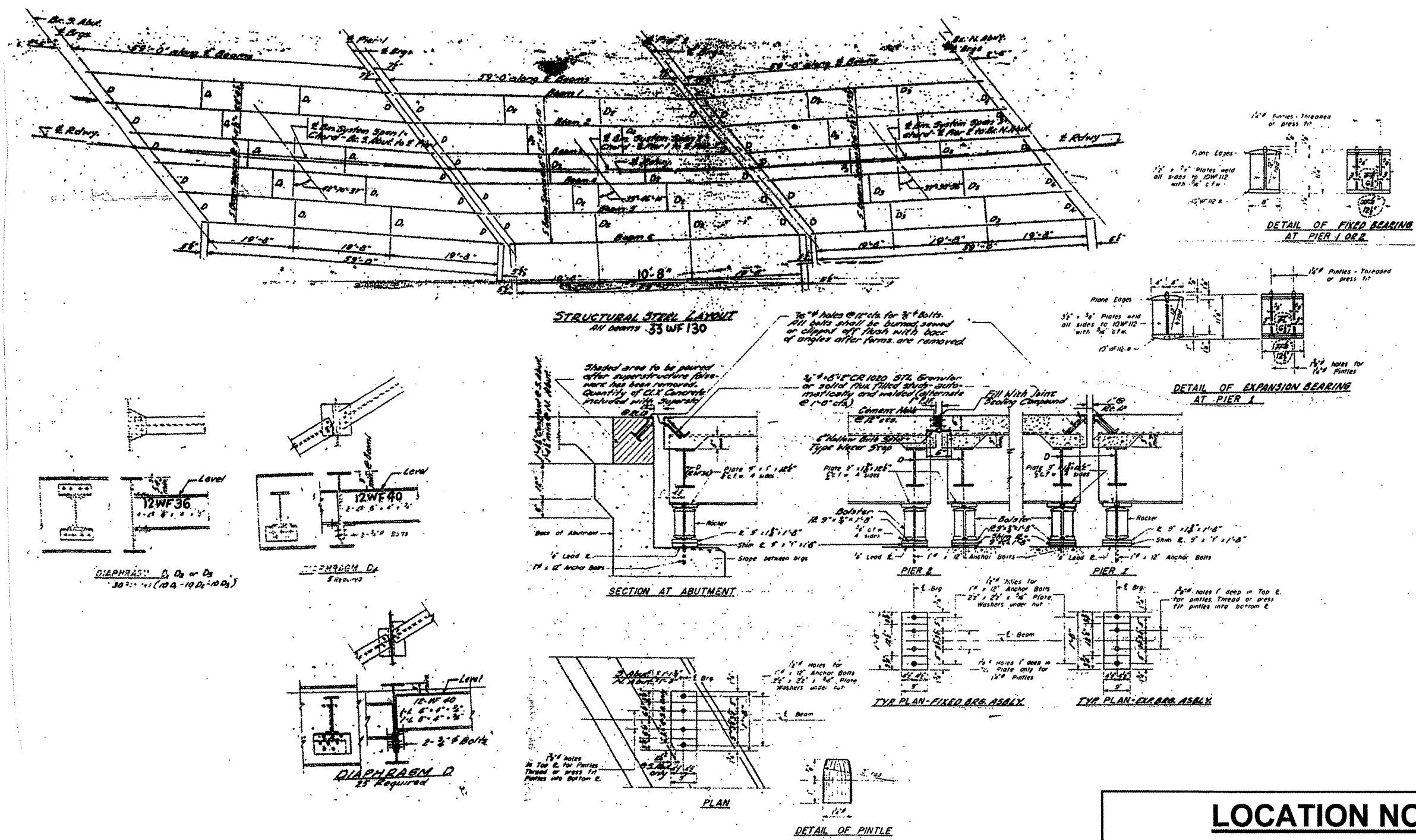
EXIST. BRIDGE PLANS

IL 113 OVER HORSE CREEK

SN 099-0171

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	48

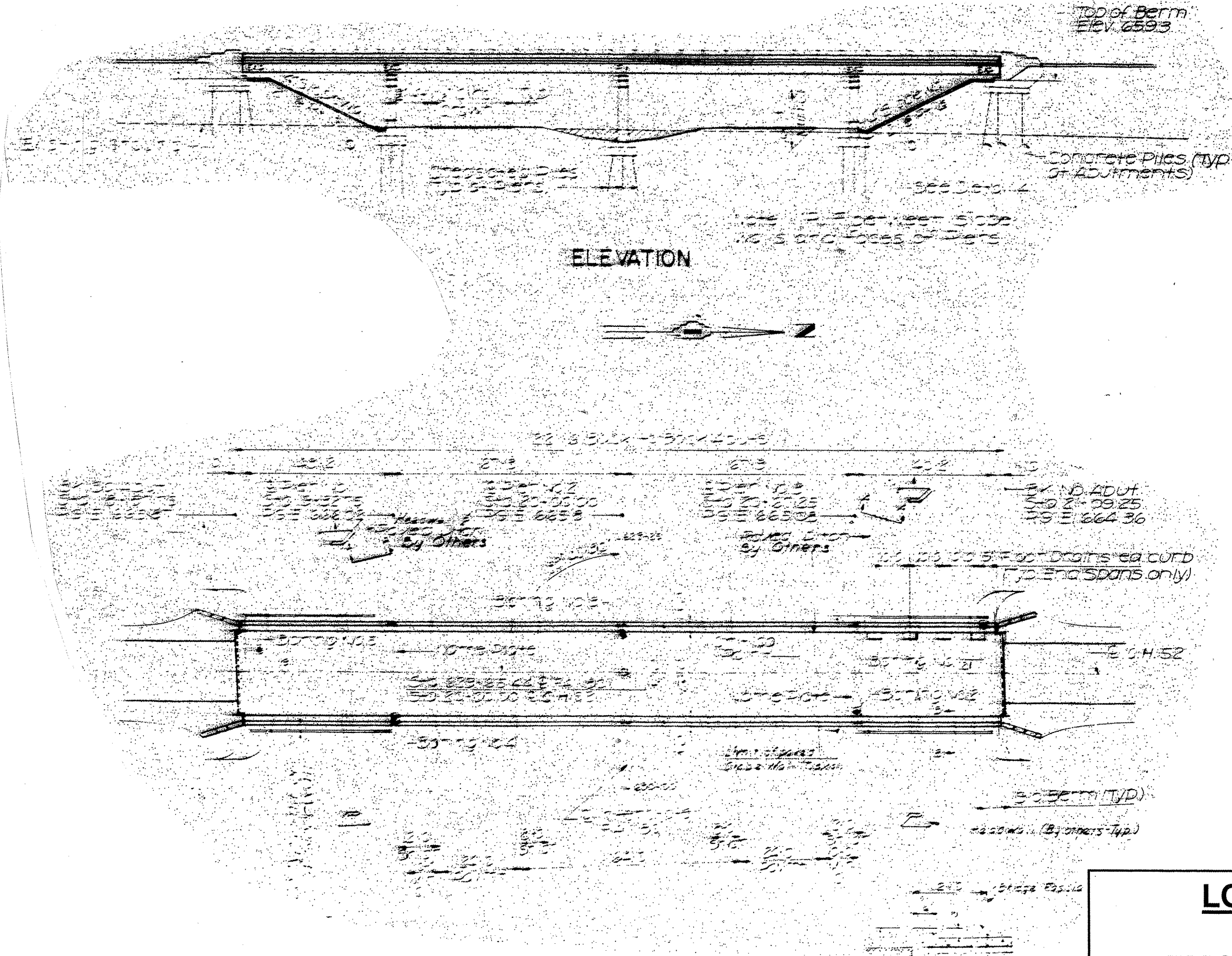
CONTRACT NO. 60F04



LOCATION NO. 11
EXIST. BRIDGE PLANS
IL 113 OVER HORSE CREEK
SN 099-0171

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-053 BP	VARIOUS	54	49

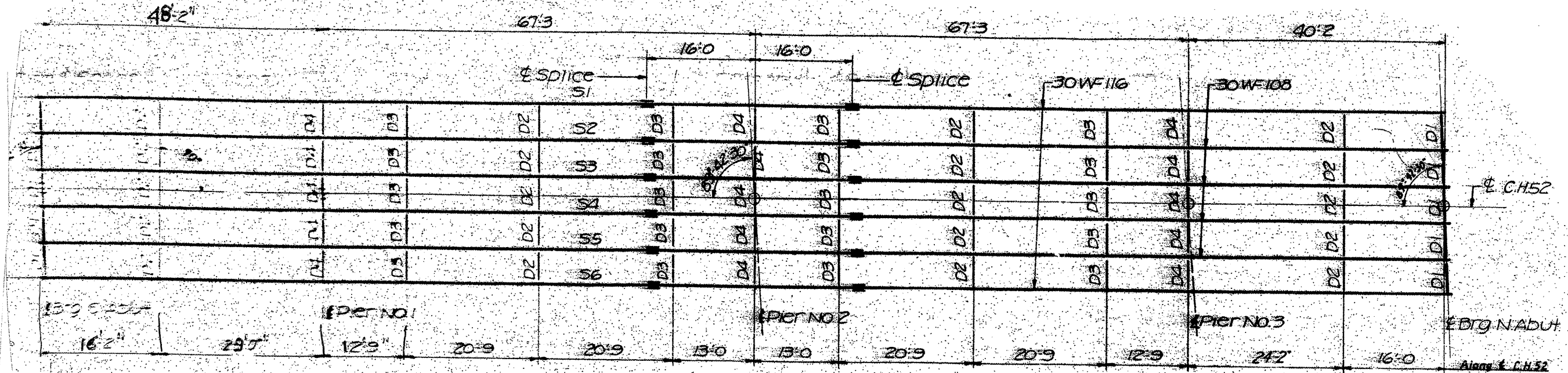
CONTRACT NO. 60F04



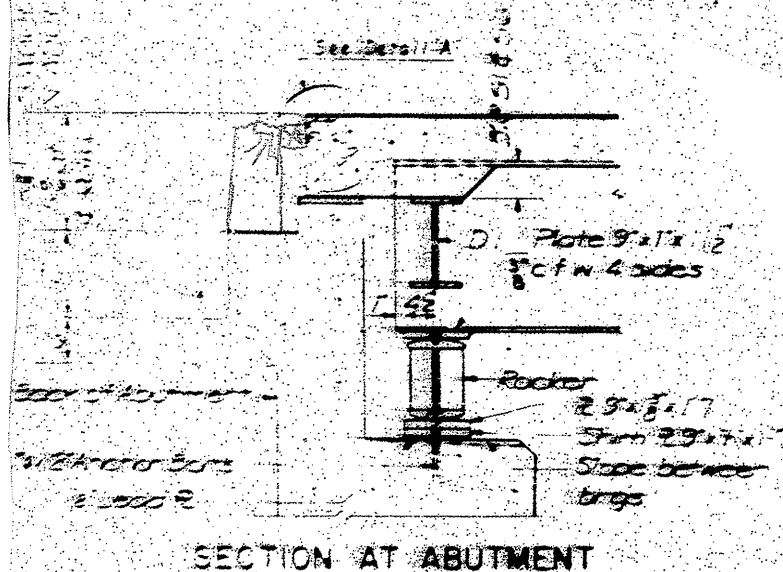
LOCATION NO. 12
EXIST. BRIDGE PLANS
GOUGAR RD. OVER I-80
SN 099-0203

ROUTE VARIOUS	SECTION 2008-053 BP	COUNTY VARIOUS	TOTAL SHEETS 54	SHEET NUMBER 50
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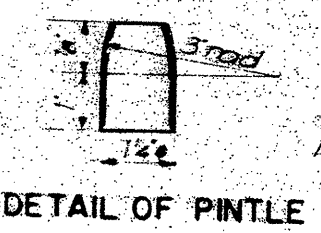
CONTRACT NO. 60F04



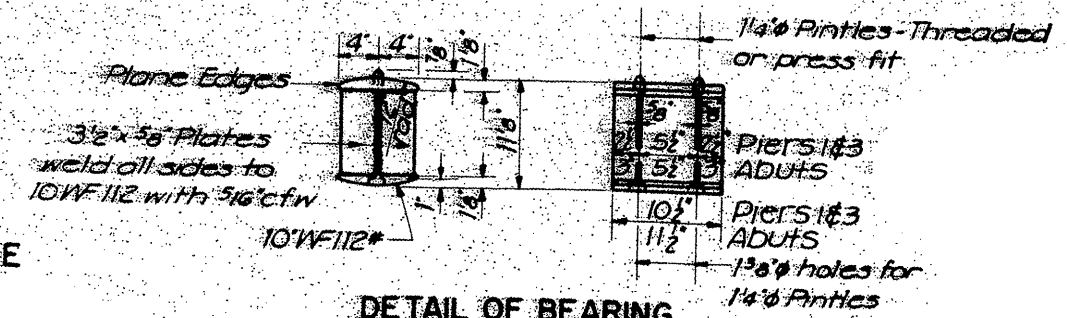
PLAN OF STRUCTURAL STEEL



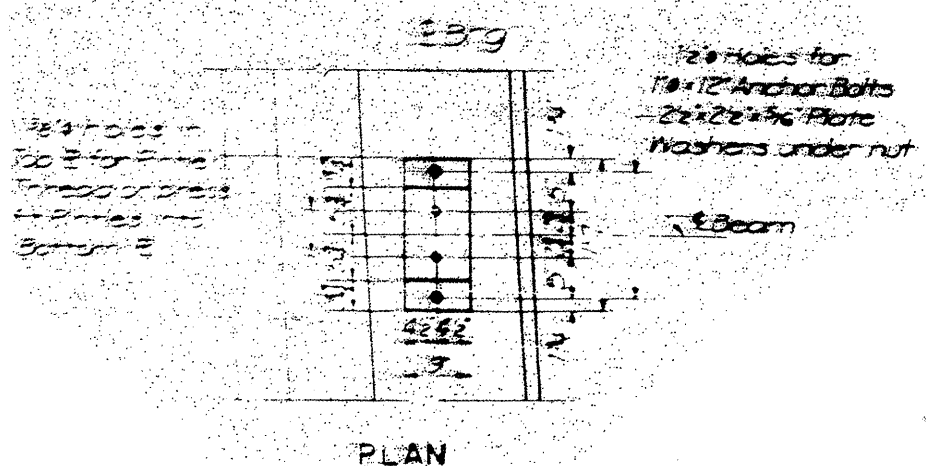
SECTION AT ABUTMENT



DETAIL OF PINTLE



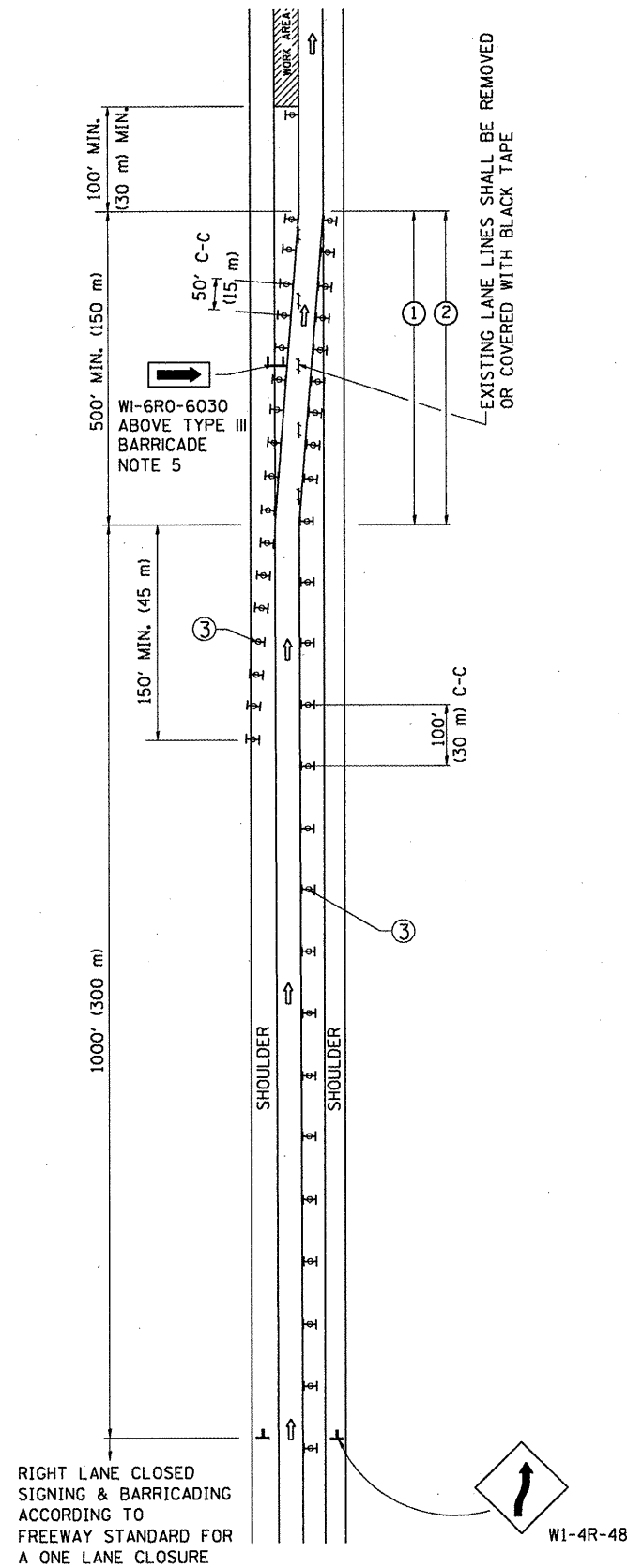
DETAIL OF BEARING AT PIERS 1&3 AND ABUTS



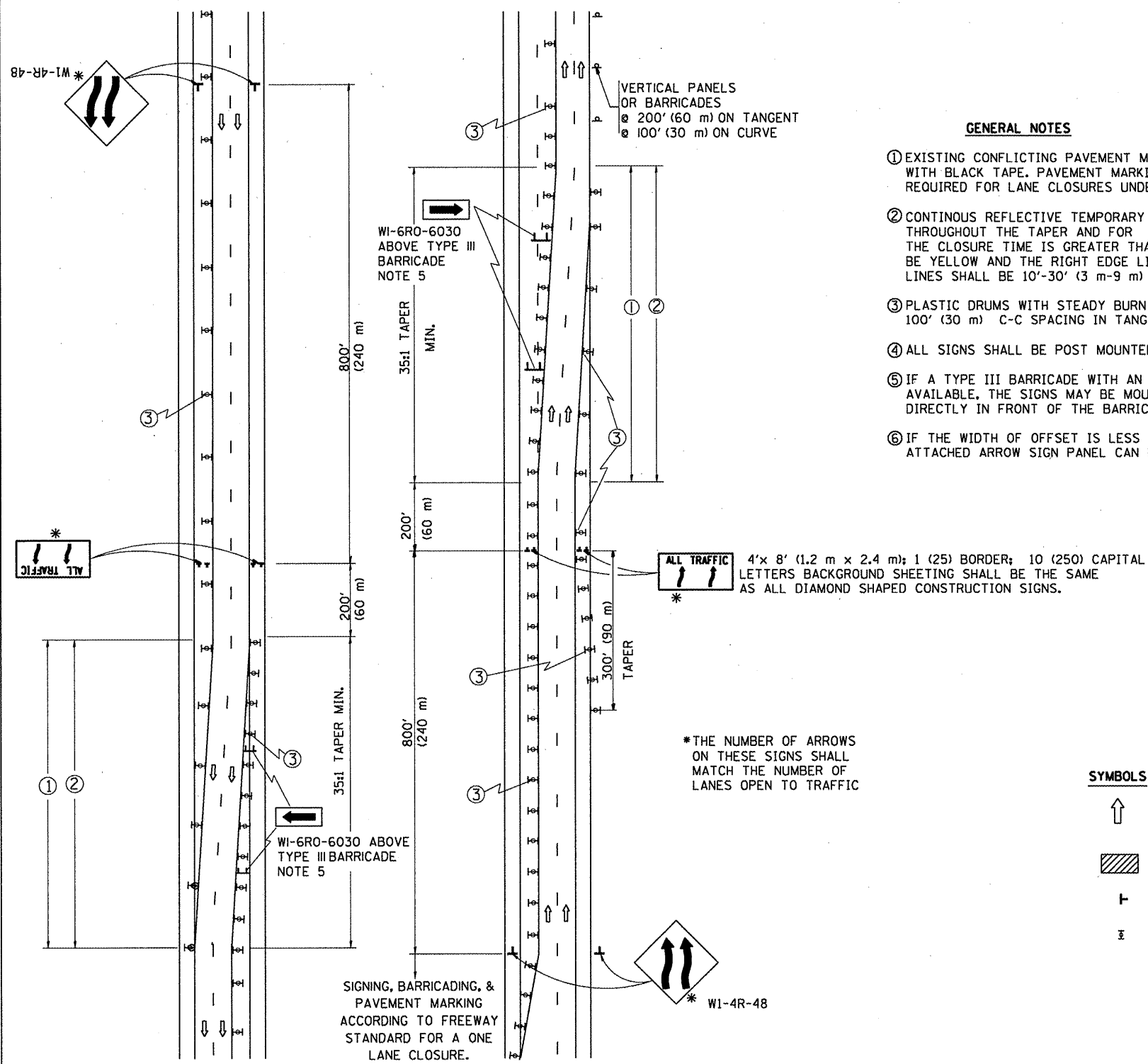
PLAN

LOCATION NO. 12
EXIST. BRIDGE PLANS
GOUGAR RD. OVER I-80
SN 099-0203

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

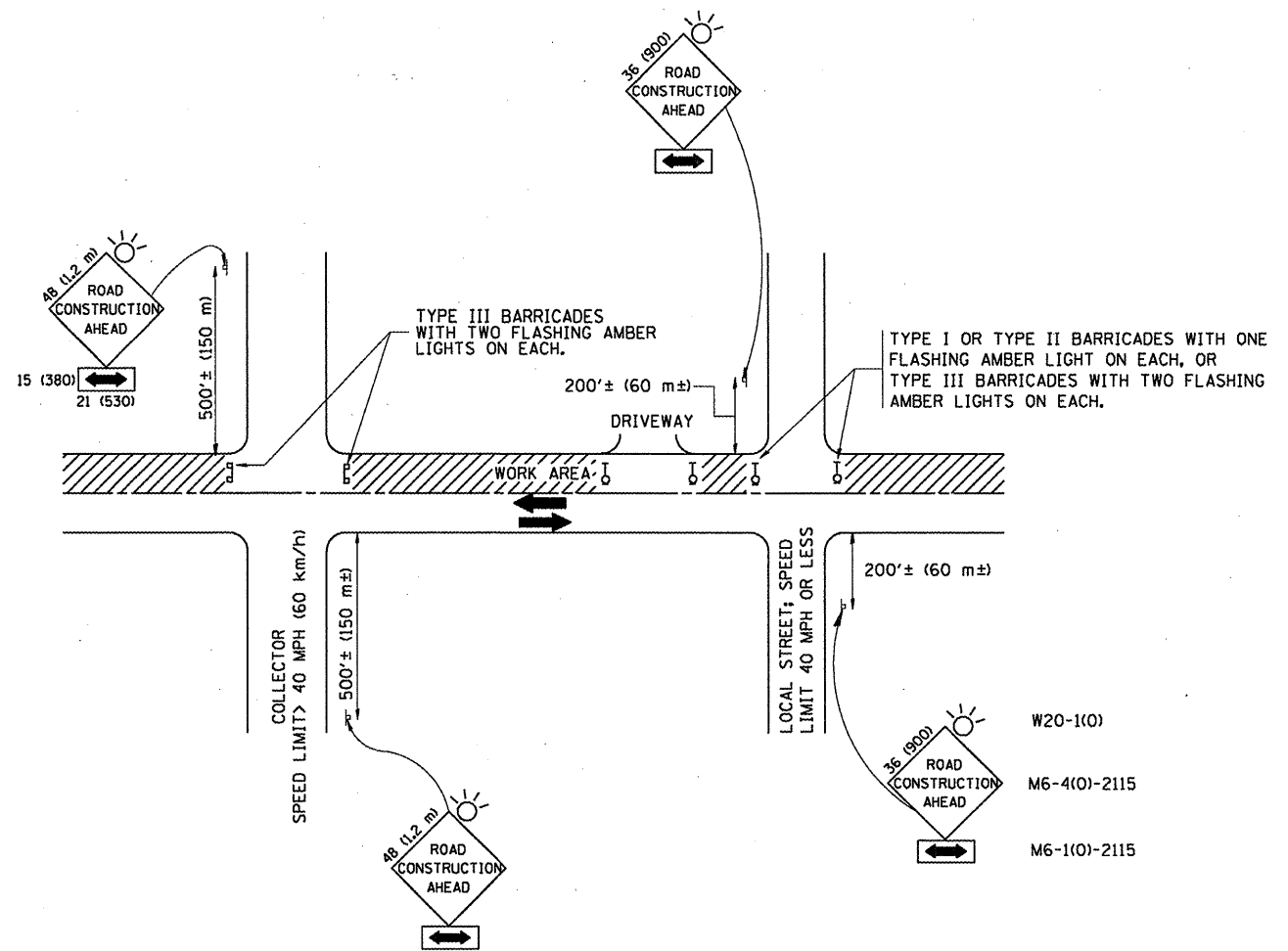
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (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 WEAVE LANE LINES SHALL BE 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 DIRECTLY IN FRONT OF THE BARRICADE.
- 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.

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = hmdanah	DESIGNED - DWS	REVISED - DWS 11-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\p\work\p\dot\hmdanah\dms9\047\des	gn_aa.dgn	DRAWN -	REVISED - JAF 01-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	2008-053 BP	VARIOUS	54	51	
		CHECKED -	REVISED - JAF 02-06					TC-09		CONTRACT NO. 60F04		
		PLOT DATE = 2/13/2009	REVISED - SPB 01-07					FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



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

NOTES:

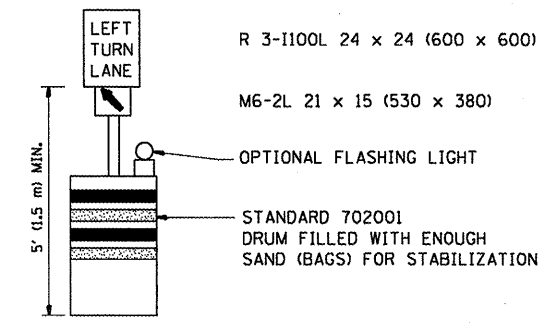
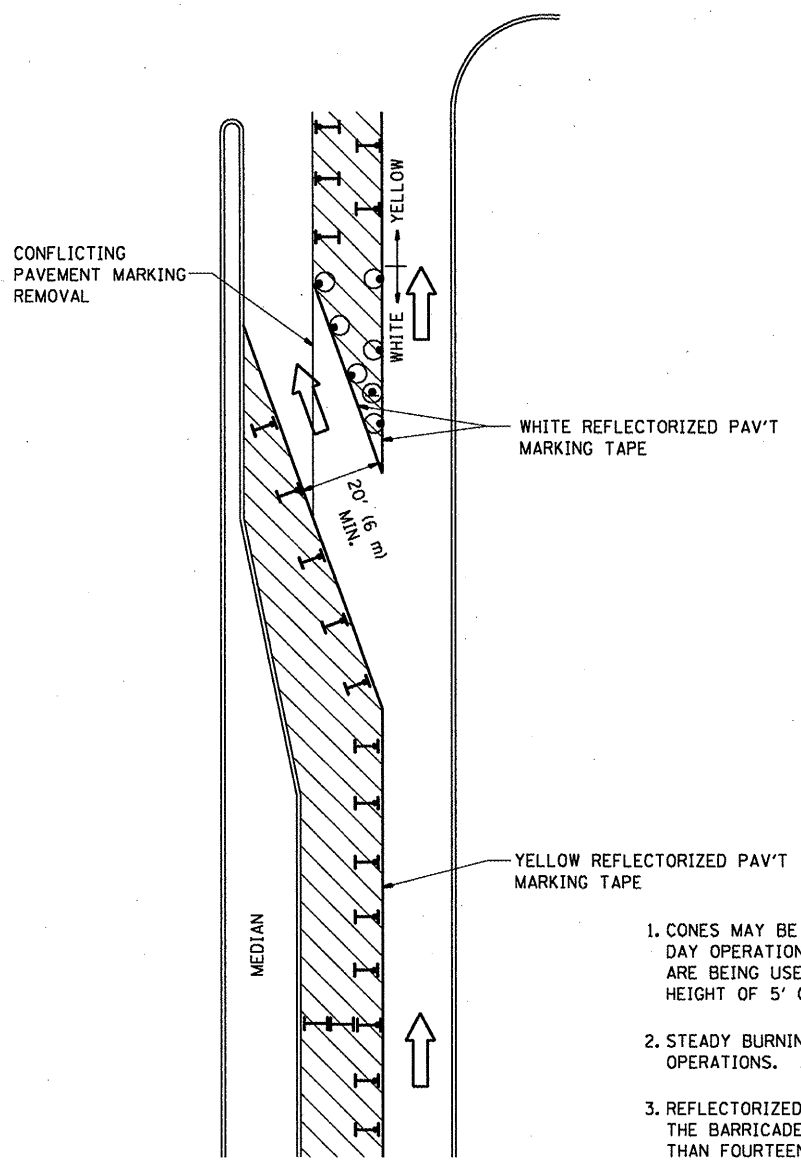
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN 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.


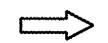




FILE NAME =	USER NAME = hamdanah	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\hamdanah\dms91047\dsgn_ee.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	2008-053 BP	VARIOUS	54	52	
		CHECKED -	REVISED - A. HOUSEH 10-15-96					TC-10				CONTRACT NO. 60F04
		PLOT DATE = 2/13/2009	REVISED - T. RAMMACHER 01-06-00					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

USER NAME = hamdanah	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
	DRAWN -	REVISED - A. HOUSEH 11-07-95
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
PLOT DATE = 2/13/2009	DATE -	REVISED -T. RAMMACHER 01-06-00

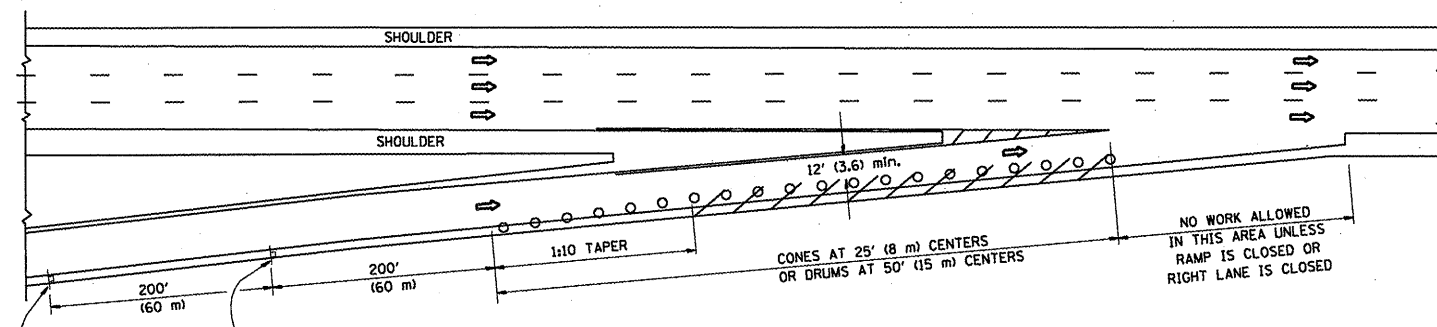
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

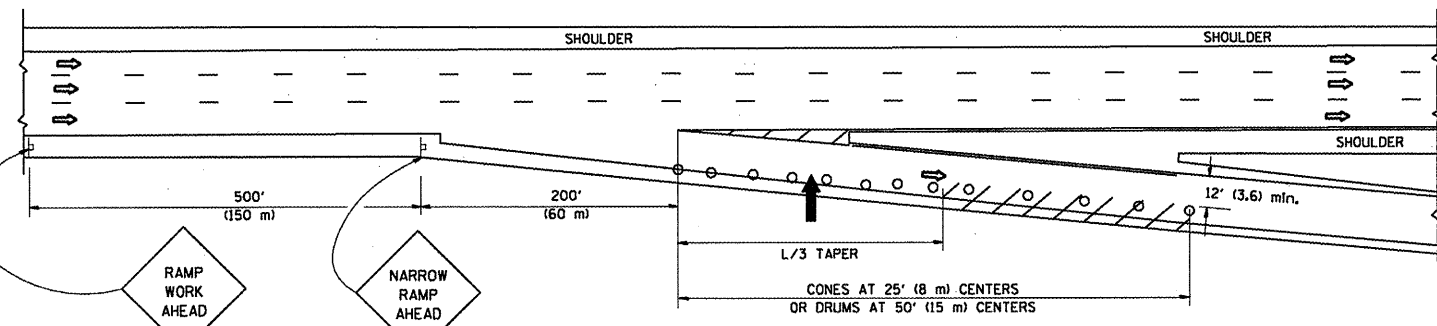
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2008-053 BP	VARIOUS	54	53
TC-14			CONTRACT NO. 60F04	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

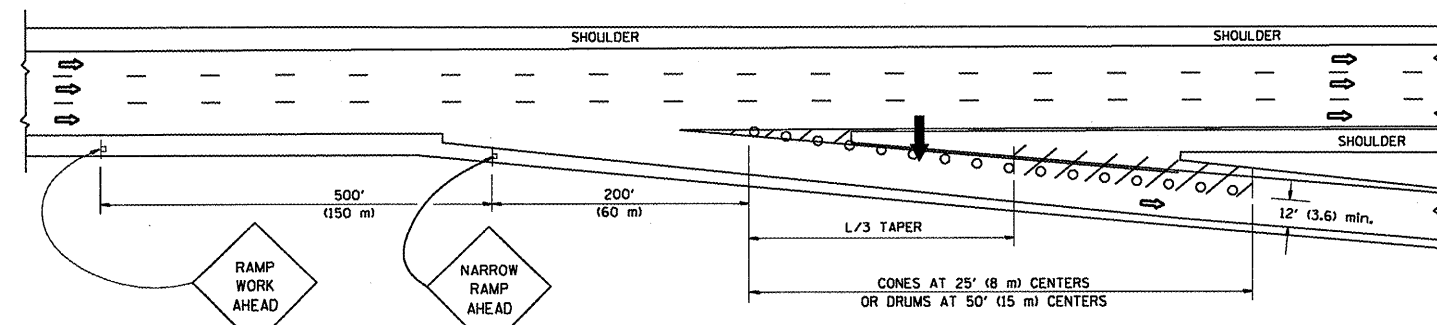
SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

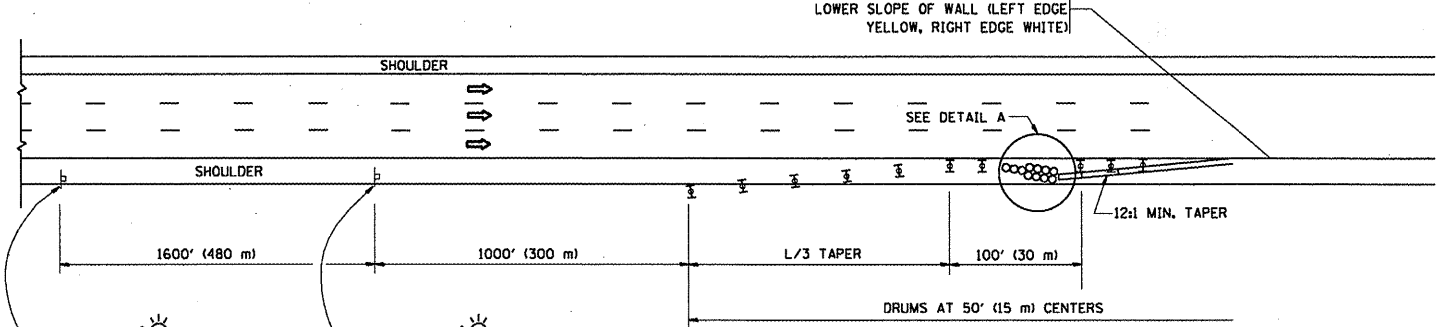
SYMBOLS

- ➔ ARROWBOARD
- ▨ 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

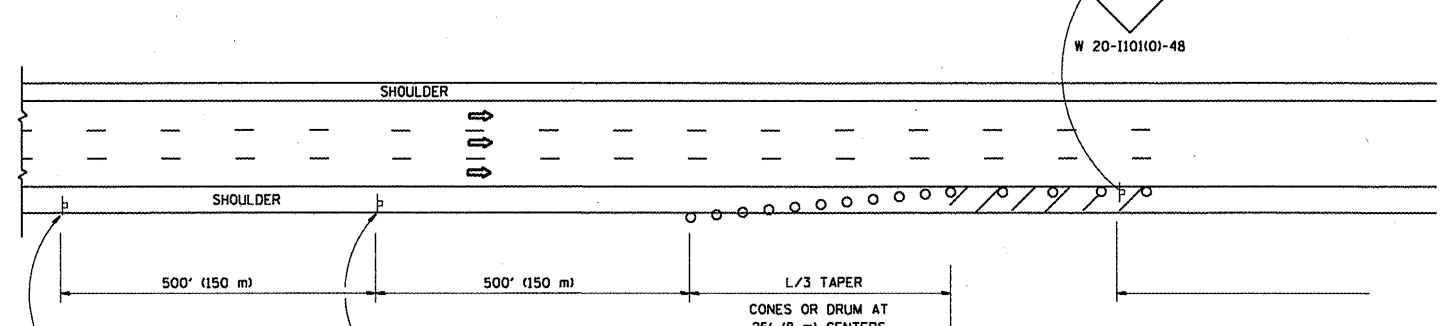
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

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



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

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

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

FILE NAME =	USER NAME = hamdenah	DESIGNED -	REVISED - J.A.F. 12-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.P. RTE.	SECTION	COUNTY	SHEETS	NO.	
2:\prj\work\pwr\dot\hamdenah\dms91047\dms	gn_aa.dgn	DRAWN - D.W.S.	REVISED - 04-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2008-053 BP	VARIOUS	54 54
PLOT SCALE = 1/8" = 1' / IN.		CHECKED -	REVISED - J.A.F. 12-06		TC-17		CONTRACT NO. 60F04				
PLOT DATE = 2/13/2009		DATE - 11-96	REVISED - S.P.B. 01-07		FED. ROAD DIST. NO. 1						