

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-4HB)BP	BUREAU	12	1
ILLINOIS			CONTRACT NO. 66H75	

INDEX OF SHEETS

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2. GENERAL NOTES
- 3 - 4. SUMMARY OF QUANTITIES
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7. TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
8. PAVEMENT MARKING DETAILS
- 9 - 12. EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY

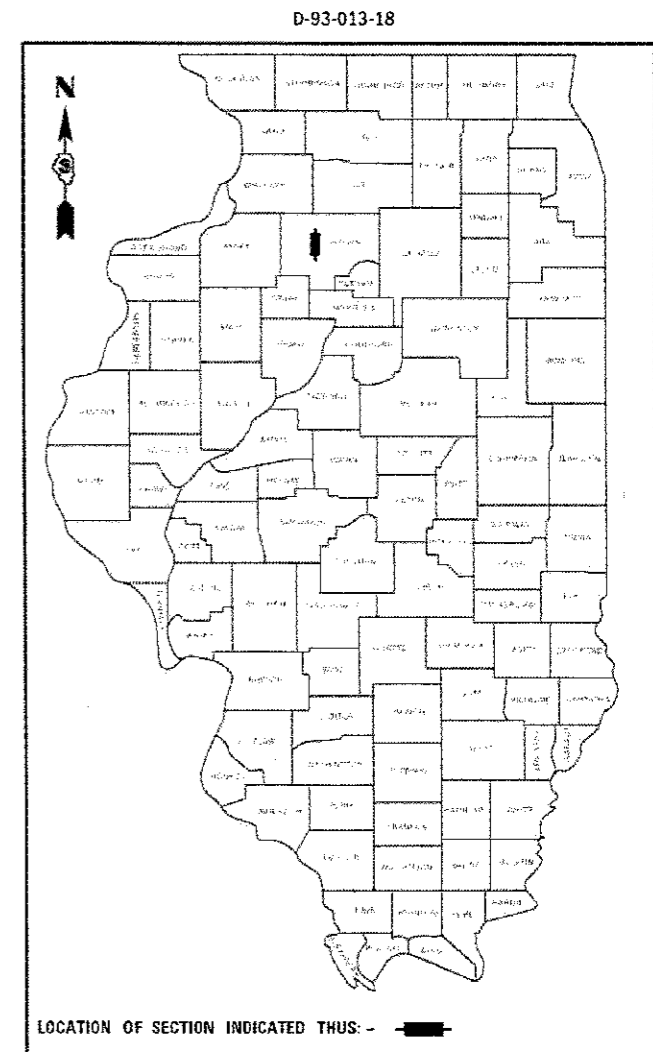
STANDARDS

- | | |
|-----------|--|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701426-09 | LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH |
| 701428-01 | TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY |
| 701901-07 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |

PROPOSED HIGHWAY PLANS

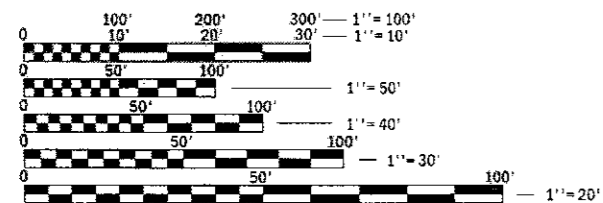
F.A.I. ROUTE 80 (I-80) SECTION (06-4HB)BP PROJECT NHPP-PE1V (411) BRIDGE PAINTING BUREAU COUNTY

C-93-012-18



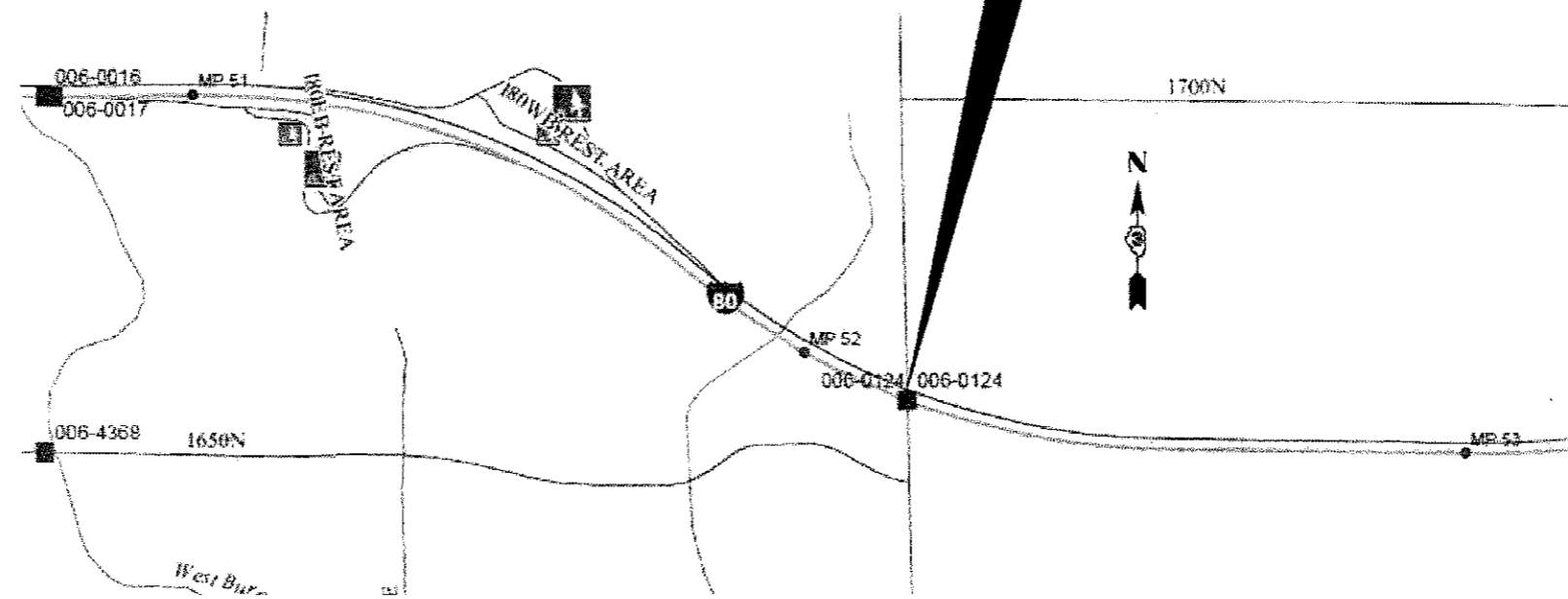
PROJECT LOCATION
STRUCTURE NO. 006-0124
CARRYING T.R. 88 (1600E RD.) OVER FAI 80 (I-80)
APPROXIMATELY 4.3 MILES WEST OF IL 26

RURAL INTERSTATE	RURAL LOCAL ROAD
F.A.I. 80 (I-80)	T.R. 88 (1600E RD.)
2015 ADT 18700	2015 ADT 125
P.V. 53.1%	P.V. 92%
S.U. 4.1%	S.U. 8%
M.U. 42.8%	



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

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



GROSS LENGTH = 235 FT. = 0.04 MILE
NET LENGTH = 235 FT. = 0.04 MILE

PROJECT ENGINEER: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT NO. 3 (815) 434-6131
CONTRACT NO. 66H75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 17 2017 *[Signature]*
REGIONAL ENGINEER

Nov 30 2017 *[Signature]*
ENGINEER OF DESIGN AND ENVIRONMENT

Nov 30 2017 *[Signature]* 2
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

GENERAL NOTES

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

STRUCTURE NO. 006-0124 SHALL BE DESIGNATED AS "LOCATION 1".

THE SSPC-QP1 AND SSPC-OP2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR EACH STRUCTURE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS AS SHOWN ON PLAN DETAILS. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".)

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

- a) ALL EXISTING STEEL RAILINGS, (INCLUDING RAIL ELEMENTS, POSTS, PLATES, AND ALL OTHER STEEL COMPONENTS OF THE HANDRAILS SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10.
- b) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIAPHRAGMS, CROSS/LATERAL FRAMING WHEN PRESENT, BEARING ASSEMBLIES AND ALL OTHER ASSOCIATED STEEL COMPONENTS SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10.
- c) ALL EXISTING STRUCTURAL STEEL, STEEL RAILINGS (INCLUDING BEAMS, DIAPHRAGMS, CROSS/LATERAL FRAMING WHEN PRESENT, RAIL ELEMENTS, PLATES, POSTS, BEARING ASSEMBLIES AND ALL OTHER ASSOCIATED STEEL COMPONENTS SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1 - OZ/E/U".

- 1) THE FINAL FINISH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL NO. 5B 7/1".
- 2) FINISH COAT FOR EXTERIOR FACE, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 1/2.
- 3) THE FINAL FINISH COAT FOR ALL STEEL RAILINGS SHALL BE "GRAY, MUNSELL NO. 5B 7/1".

GENERAL NOTES (CON'T)

THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LISCENSED TO DISPOSE OF LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED COMPLETION DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN PROPERLY REMOVED AND DISPOSED OF.

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

DATE: 10/17/17

SUPERVISING CONSTRUCTION FIELD ENGINEER

PREPARED BY: David Bzovich (w)
DISTRICT STUDIES & PLANS ENGINEER

START & END DATES
OF CONSTRUCTION:

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS:

Michael A. Short
DISTRICT MATERIALS ENGINEER
[Signature]
DISTRICT OPERATIONS ENGINEER

RECORD - 02/04/2017
 FILE NUMBER - 006-4H8BP
 PROJECT - 10/16/2017
 USER NAME - woods@ark1
 DESIGNED - RW
 DRAWN - RW
 CHECKED - EP
 DATE - 9/26/2017
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60	106-4H8BP	BUREAU	12	2
CONTRACT NO. 66H75			ILLINOIS FEDERAL PROJECT	

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

REV

CONSTR. CODE
 B.P.O.
 90% FED 10% STATE
 BRIDGE
 0047
 S.N. 006-0124

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50600200	PAINTING STEEL RAILING	FOOT	468	468
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1125	1125
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	3
Δ 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	650	650
Δ 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	450	450
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	440	440
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	30	30

Δ SPECIALITY ITEMS

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14

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PLOT DATE = 10/16/2017	DATE - 9/26/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

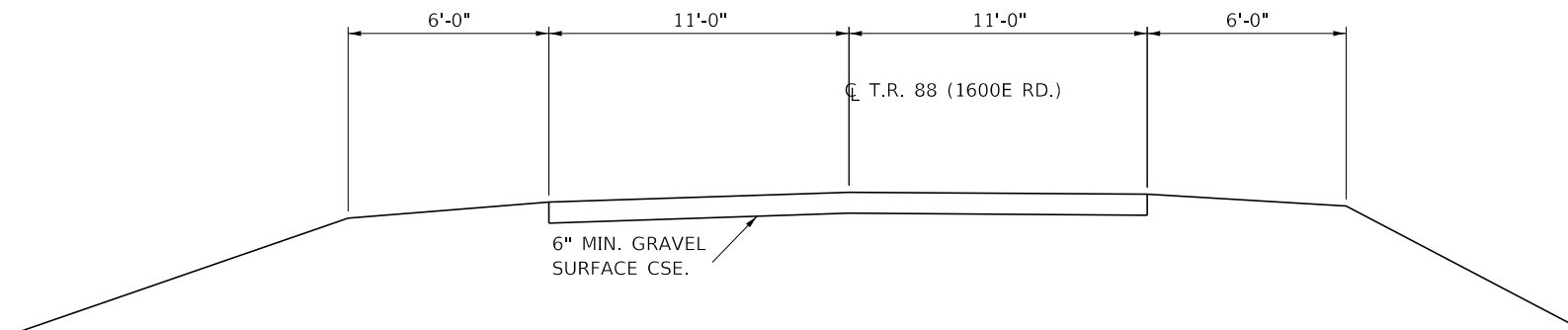
F.A.I. RTE. 80	SECTION (06-4HB)BP	COUNTY	TOTAL SHEETS 12	SHEET NO. 3
		BUREAU	CONTRACT NO. 66H75	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				B.P.O. 90%FED 10%STATE BRIDGE 0047 S.N. 006-0124
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1

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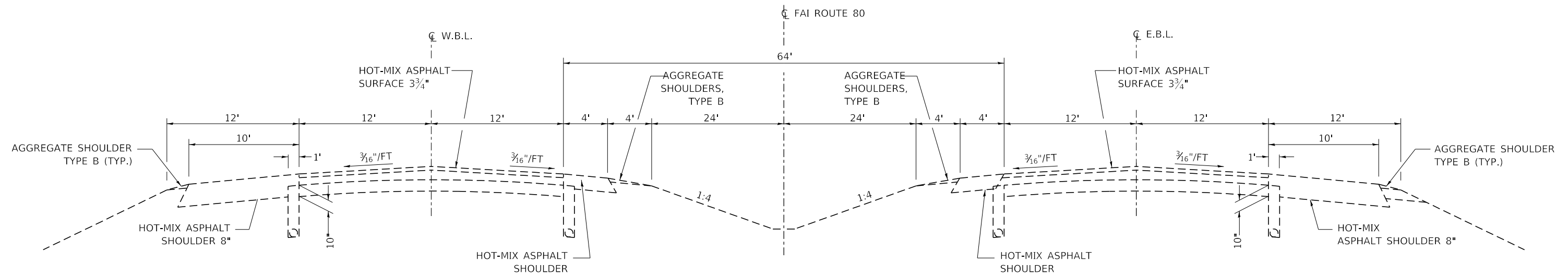
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PLOT DATE = 10/16/2017	DATE - 9/26/2017	REVISED -			SCALE:	SHEET 2	OF 2	SHEETS	STA.

REV



TYPICAL SECTION 1

T.R. 88 (1600E RD.)



TYPICAL SECTION 2

I-80
 STA 872+36 TO STA 1080+00 EB
 STA 893+48 TO STA 1080+00 WB

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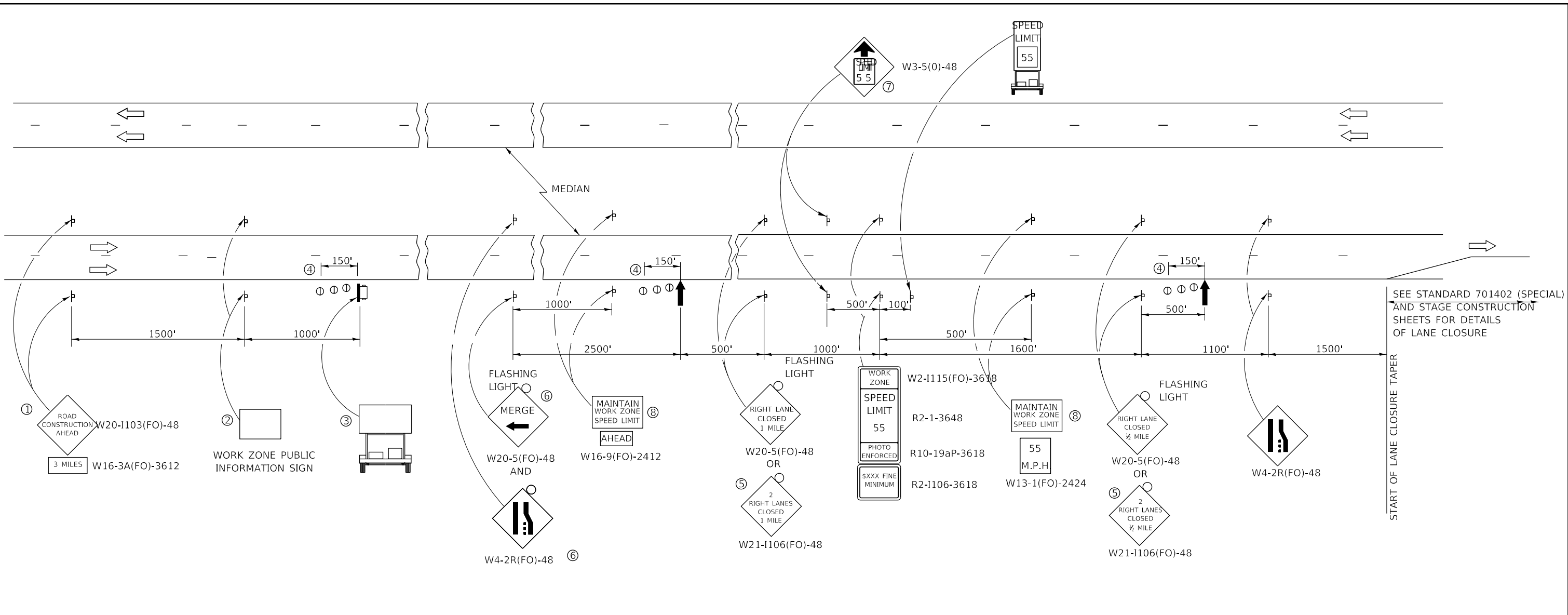
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

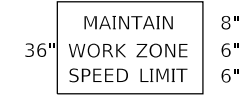
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-4HB)BP	BUREAU	12	5
CONTRACT NO. 66H75				
ILLINOIS FED. AID PROJECT				



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE CLOSED" / " x MILES AHEAD"
 "LEFT LANE CLOSED" / " x MILES AHEAD"
 "ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.
48"



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ☐ SIGN
- ☐ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▤ TEMPORARY RUMBLE STRIPS
- 🚚 SPEED DISPLAY TRAILER

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

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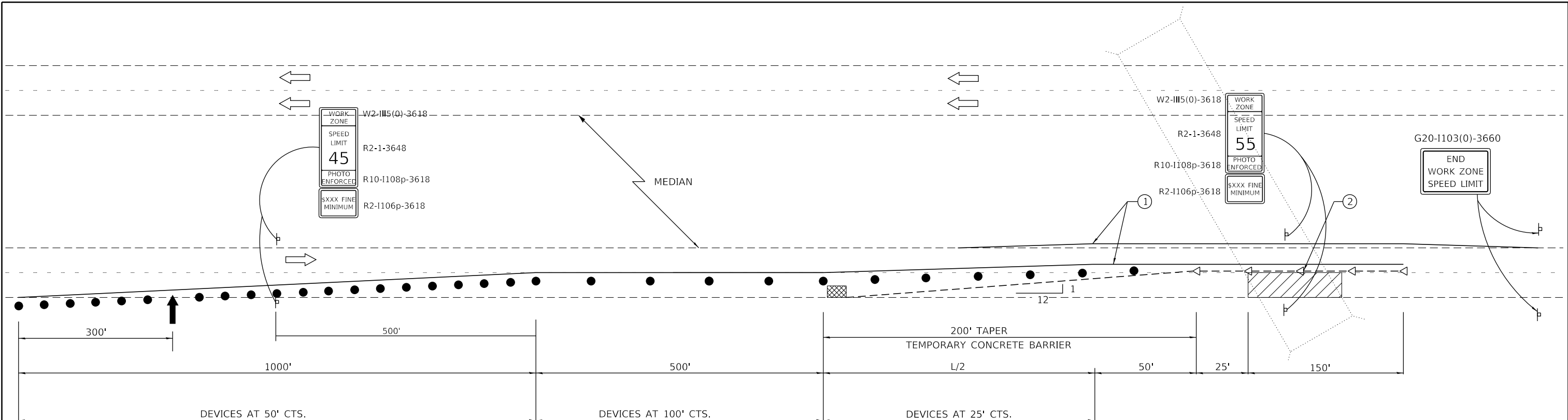
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

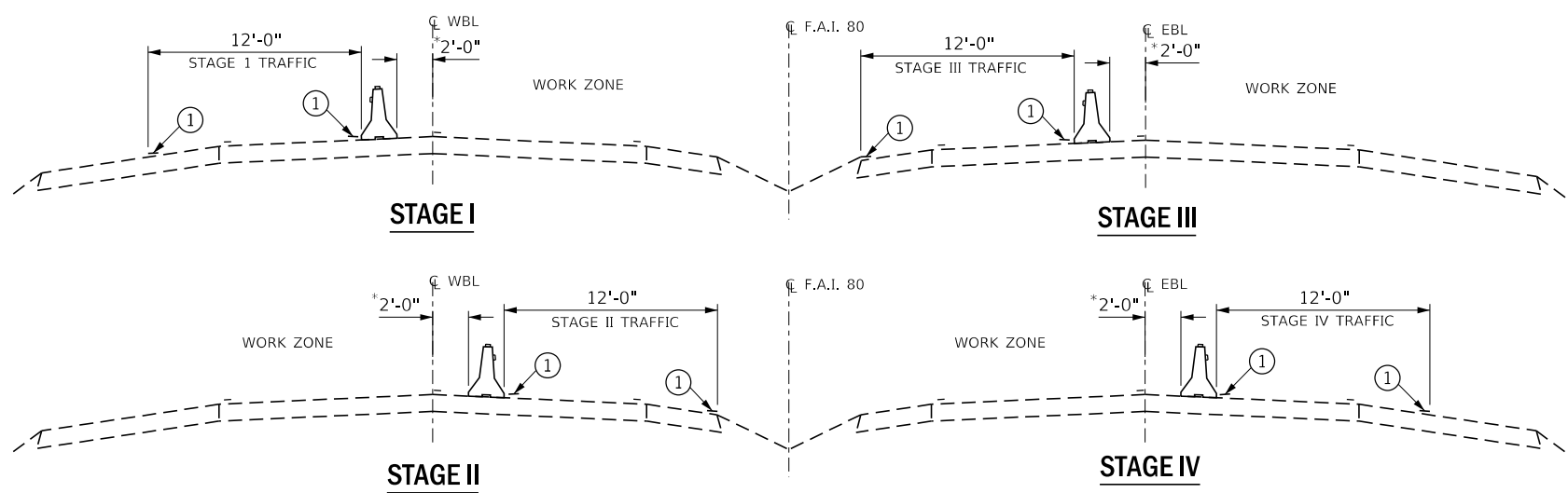
TRAFFIC CONTROL & PROTECTION 701400 (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-4HB)BP	BUREAU	12	6
			CONTRACT NO. 66H75	
		ILLINOIS	FED. AID PROJECT	



- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' (7.6 M). MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.



GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

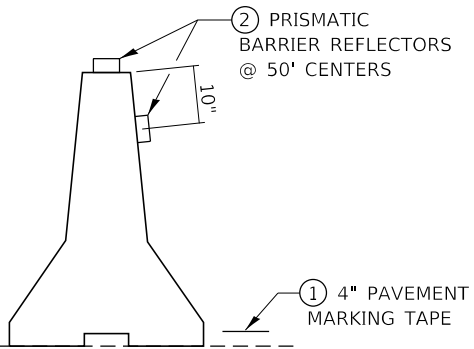
CALCULATE L AS FOLLOWS:

NORMAL POSTED SPEED	FORMULAS
45 MPH OR MORE	ENGLISH
	$L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS).
 S = NORMAL POSTED SPEED IN MPH (KM/H).

SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⊥ SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- ▩ IMPACT ATTENUATOR



TEMPORARY CONCRETE BARRIER

*NO EQUIPMENT OR MATERIALS SHALL ENCROACH WITHIN AN DISTANCE OF 2'-0" AS MEASURED FROM THE BASE OF THE TEMPORARY CONCRETE BARRIER TO THE C OF ROADWAY

SEE STANDARD 701400 (SPECIAL) FOR APPROACH START OF LANE CLOSURE TAPER

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ANCHORED ACCORDING TO ARTICLE 704.04

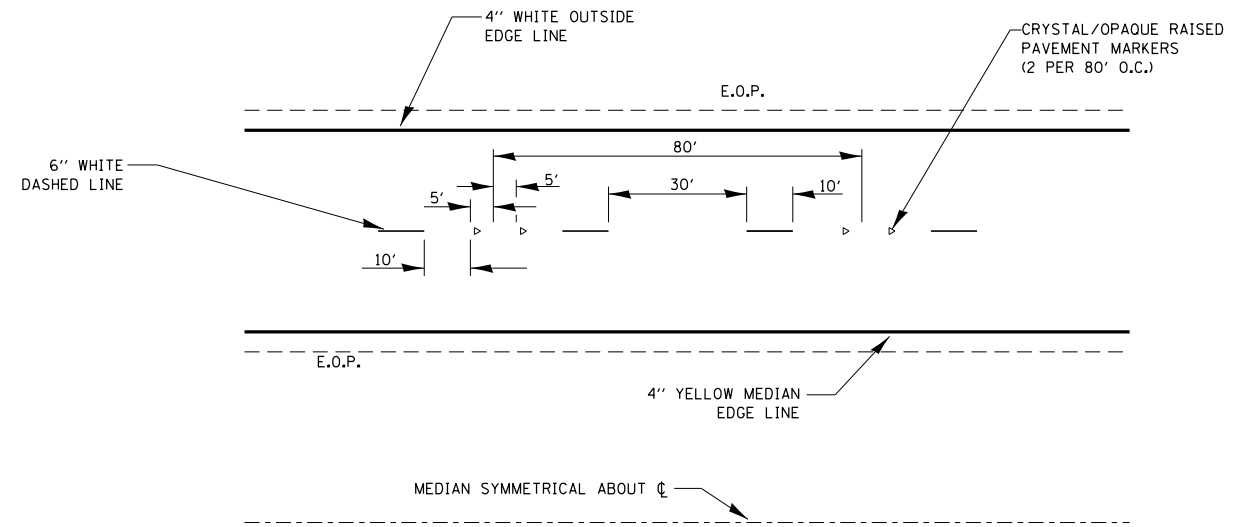
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION 701402 (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-4HB)BP	BUREAU	12	7
CONTRACT NO. 66H75				
ILLINOIS FED. AID PROJECT				



TYPICAL PAVEMENT MARKINGS

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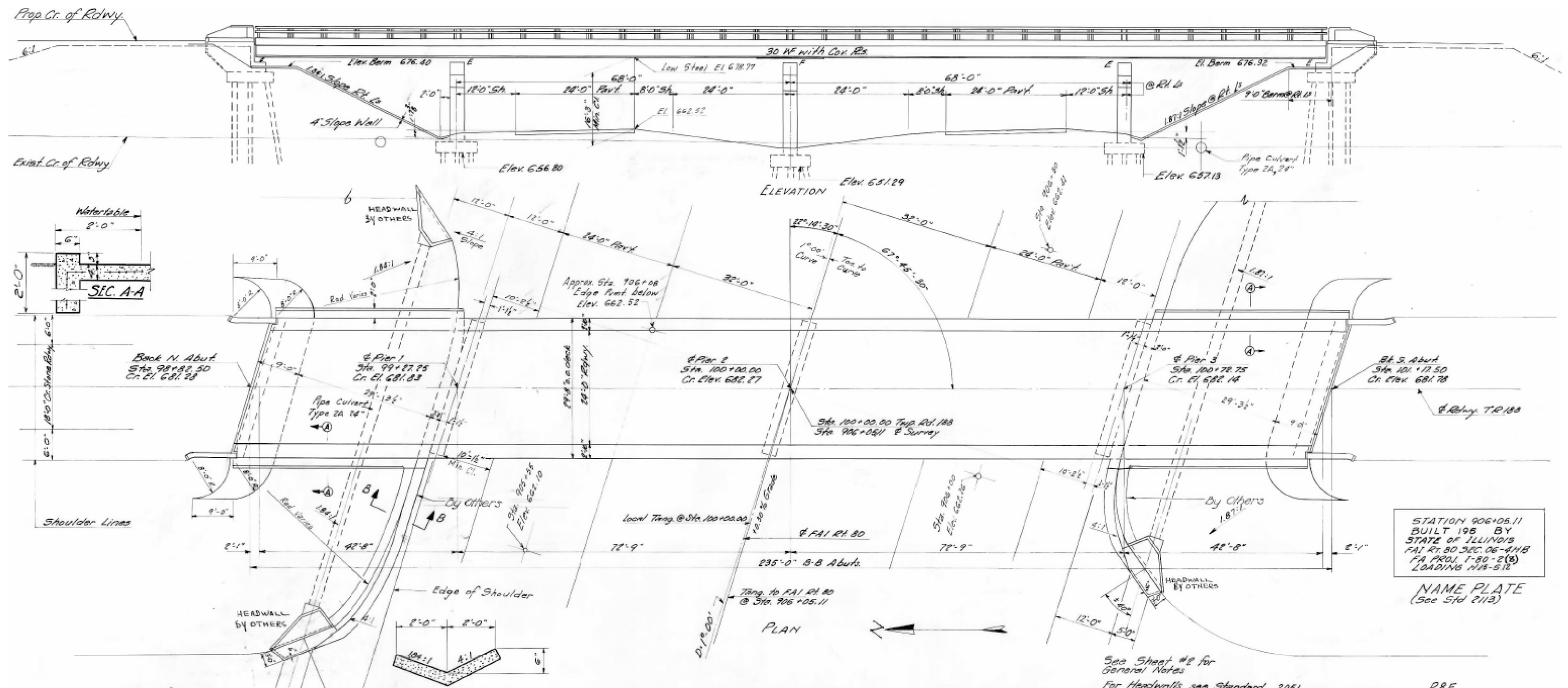
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(06-4HB)BP	BUREAU	12	8
CONTRACT NO. 66H75				
ILLINOIS FED. AID PROJECT				



STATION 906+05.11
 BUILT 196 BY
 STATE OF ILLINOIS
 FAI RT. 80 SEC. 06-4/1B
 FA PROJ. I-80-2(8)
 LOADING N18-518
 NAME PLATE
 (See Std 2113)

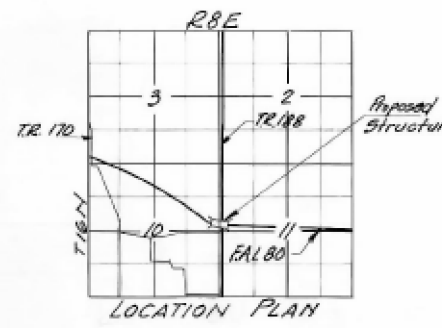
See Sheet #2 for
 General Notes
 For Headwalls see Standard 2051

TOTAL BILL OF MATERIAL

ITEM	Quantity	SUPER	SUB	TOTAL
Borrow Excavation	Cu. Yds			45,941
Class A Excavation for Structure	Cu. Yds			708
Handrail Concrete	Cu. Yds	2.3		2.3
Class X Concrete	Cu. Yds	187.4	201.1	388.5
Structural Steel	Lbs.	185,710		185,710
Metal Handrail	Lin. Ft.	466		466
Pipe Culvert, Type 24 (24")	Lin. Ft.			108
Reinforcement Bars	Lbs.	35,540	15,440	50,980
Name Plates	Each			2
Crossed Piles up 20	Lin. Ft.			1140
Test Pile Timber	Each			2
Concrete Piles	Lin. Ft.			680
Concrete Test Piles	Each			1
Slope Wall - 4"	Sq. Yds			404
Protective Coat	Sq. Yds	823		823

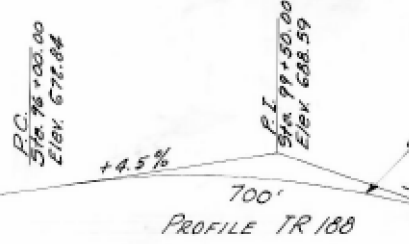
HORIZONTAL CURVE
 $\Delta = 38^{\circ}16'05''$
 $D = 1^{\circ}00'$
 $R = 5789.65'$
 $T = 1987.88'$
 $L = 3826.81'$
 $SE = 0.08\%$

DESIGN STRESSES
 $f_c = 1400$ psi. Super
 $f_c = 75$ psi. Footings
 $f_s = 20000$ psi. Reinf.
 $f_s = 18000$ psi. Struct.
 $n = 10$

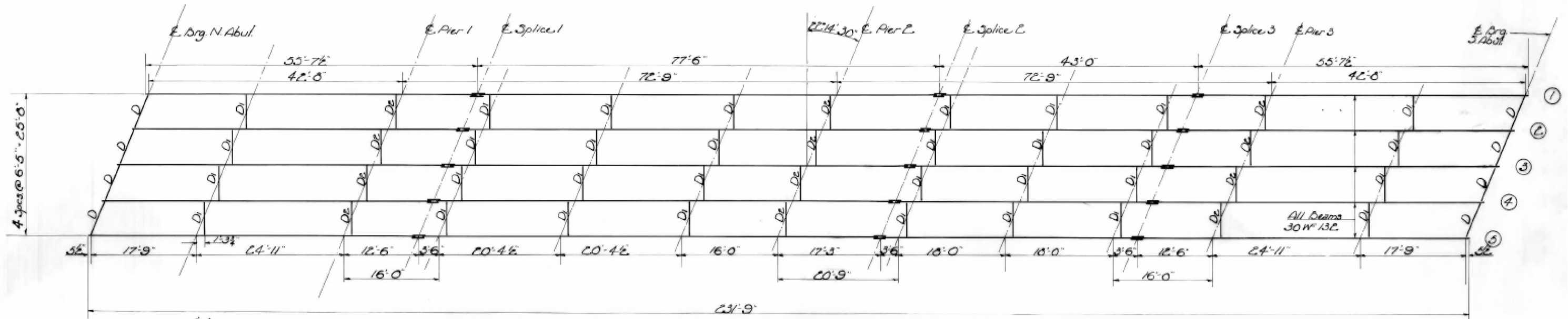


GENERAL PLAN & ELEVATION
 TR.188 OVER FAI RT. 80
 PROJ. I-80-2
 FAI RT. 80-SEC. 06-4/1B
 BUREAU COUNTY

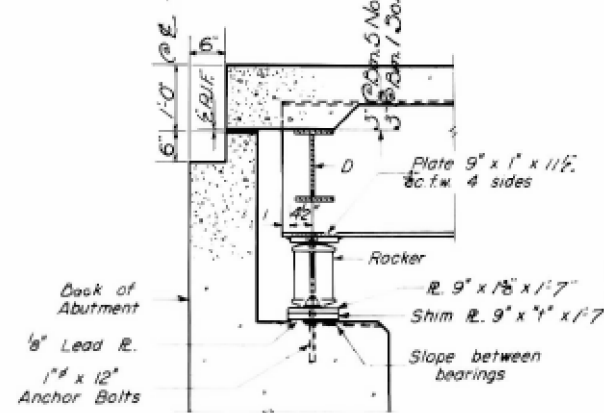
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 CHECKED: R. Kowal
 DRAWN: J. Brown
 CHECKED: BAK.
 EXAMINED: V. M. Romine
 PASSED: [Signature]
 APPROVED: R. L. [Signature]
 JUNE 22 1960



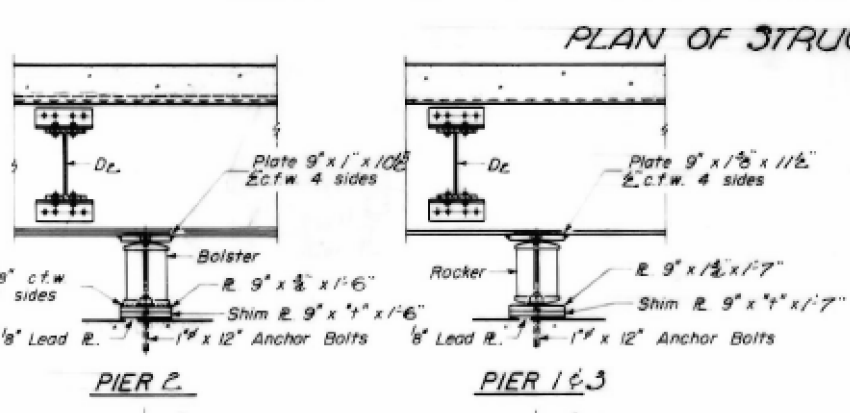
FOR INFORMATION ONLY



PLAN OF STRUCTURAL STEEL

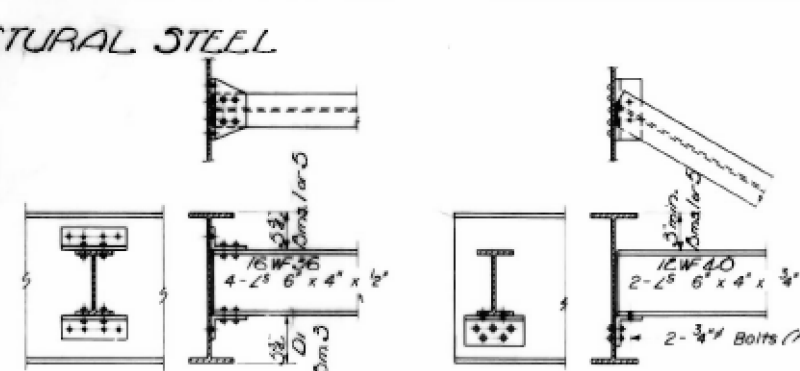


SECTION AT ABUTMENT



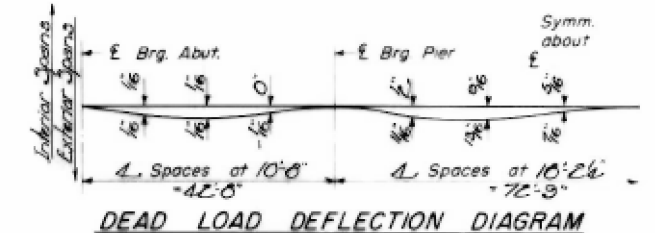
PIER 2

PIER 1 & 3

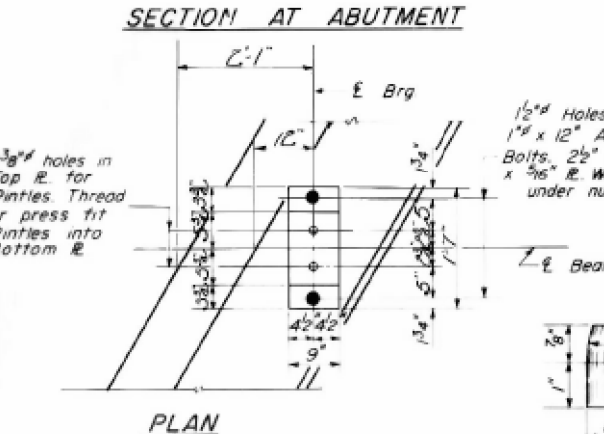


DIAPHRAGM D1 & D2

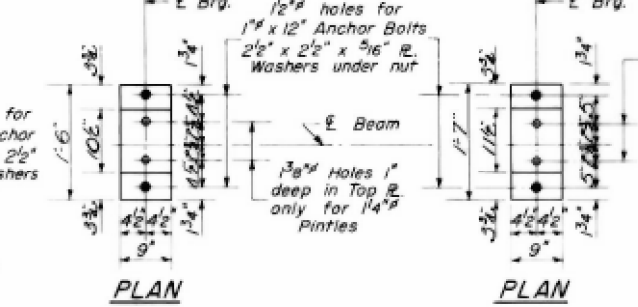
DIAPHRAGM D



DEAD LOAD DEFLECTION DIAGRAM

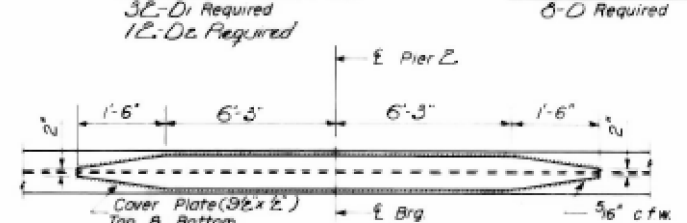


PLAN



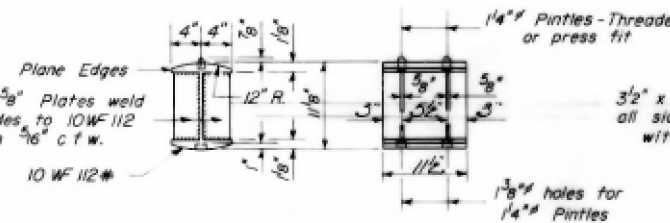
PLAN

PLAN

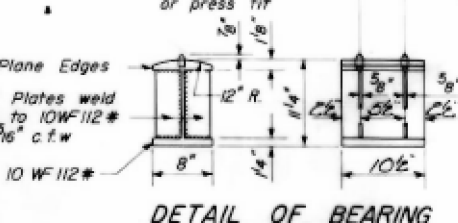


DETAIL OF COVER PLATES

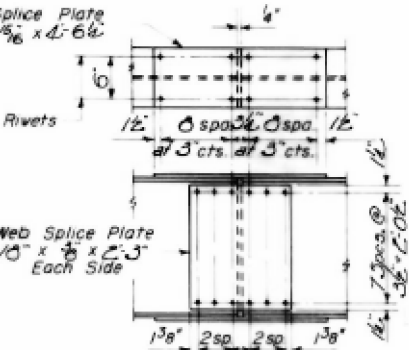
DETAIL OF PINTLE



DETAIL OF BEARING AT ABUTS. & PIERS 1 OR 3



DETAIL OF BEARING AT PIER 2



DETAIL OF SPLICE

ELEVATION TOP OF BEAMS

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
N. Abut.	600.72	600.77	600.77	600.70	600.66
Pier 1	601.12	601.19	601.20	601.14	601.02
Splice 1	601.24	601.32	601.33	601.27	601.15
Pier 2	601.47	601.57	601.59	601.56	601.43
Splice 2	601.51	601.64	601.67	601.64	601.54
Splice 3	601.43	601.54	601.50	601.56	601.40
Pier 3	601.35	601.43	601.51	601.43	601.41
S. Abut.	601.00	601.00	601.06	601.06	601.13

TABLE OF "t" DIMENSIONS

Dim. #	Org. N.A.	Pier 1	Pier 2	Pier 3	Org. S.A.
#1	0	0	0	0	0
#2	0	0	0	0	0
#3	0	0	0	0	0
#4	0	0	0	0	0
#5	0	0	0	0	0

STRUCTURAL STEEL
F.A.I.R.T. 80 ~ SEC. 06-4HS
BUREAU COUNTY 4
STA. 906+05.11

DESIGNED *J. F. Potts*
 CHECKED *R. Kowert*
 DRAWN *W. A. Sausaman*
 CHECKED *BAK*

EXAMINED *V. M. Romier*
 PASSED *E. Hunt*
 APPROVED *R. L. Castleton*

JUNE 22 1960

T-2-1 Re-drawn 9-21-59

FOR INFORMATION ONLY

