### **INDEX OF SHEETS**

**GENERAL NOTES** SUMMARY OF QUANTITIES

TYPICAL SECTION

0

0

PAVEMENT MARKING DETAILS

01-18-2019 LETTING ITEM 015

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**PROPOSED** 

F.A.I. ROUTE 180 (I-180)

SECTION (06-1HB)BP-2 PROJECT NHPP-MA4I(741)

**BRIDGE PAINTING** 

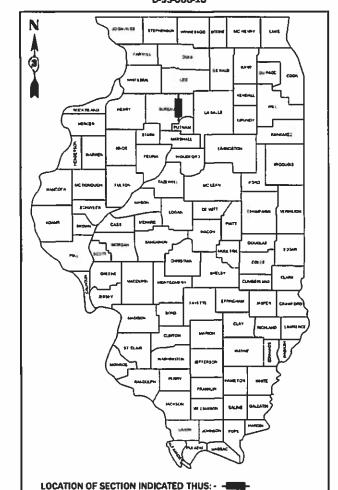
**BUREAU COUNTY** 

C-93-093-18

**HIGHWAY PLANS** 

### SECTION CONTRACT NO. 66J43

### 0-93-088-18



### **FUNCTIONAL CLASSIFICATION**

F.A.L. ROUTE 180 (I-180) F.A.I. ROUTE 80 (1-80) 2017ADT=2300 2017 ADT = 20,200 P.V. 45,9% P.V. 58.1% S.U. 3.8% M.U. 48.9% M.U. 38.1%

> STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROJECT LOCATION

**CARRYING F.A.I. 180 (I-180)** 

**4 MILES EAST OF PRINCETON** 

006-0038 (NB) & 006-0039 (SB)

STRUCTURE NO.'S

OVER F.A.I. 80 (I-80)

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

# **STANDARDS**

TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL) TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)

EXISTING STRUCTURE DETAILS: FOR INFORMATION ONLY

001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15 (4.5 m) TO 24" (600 mm) FRO
	PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-05	LANE CLOSURE, 2L. 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP
	FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION,
	FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

TYPICAL PAVEMENT MARKINGS 780001-05 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS 782006 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (45m) AWAY 701001-02 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE 701006-05 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701301-04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY 701400-09 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER 701402-12

STRUCTURE NO. 006-0038 GROSS LENGTH = 206.51 FT. = 0.039 MILE NET LENGTH = 206.51 FT. = 0.039 MILE

GROSS LENGTH = 205.95 FT. = 0.039 MILE NET LENGTH = 205.95 FT. = 0.039 MILE

## STRUCTURE NO. 006-0039

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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: JOE KANNEL, P.E. **UNIT CHIEF: RON WOODSHANK DISTRICT 3 NO. (815) 434-6131** CONTRACT NO. 66J43

REV. 11/21/18 REV. 11/20/18

### **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.
- 2. STRUCTURE NO. 006-0038 (NB) SHALL BE DESIGNATED AS "LOCATION 1". STRUCTURE NO. 006-0039 (SB) SHALL BE DESIGNATED AS "LOCATION 2".
- THE EXISTING STRUCTURAL STEEL CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THE PROJECT.
- THE SSPC-QP1 AND SSPC-QP2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.
- 5. 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".)
- 6. 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 STRUCTURAL STEEL, (INCLUDING BEAMS, DIPHRAGMS, 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".
  - b) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIPHRAGMS, CROSS/LATERAL FRAMING WHEN PRESENT, 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".
- 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

SUPERVISING CONSTRUCTION FIELD ENGINEER PREPARED BY: RESIDENT ENGINEER / TECHNICIAN DATE: START & END DATES OF CONSTRUCTION: EXAMINED BY:

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FILE NAME = DESIGNED - JW USER NAME = woodshankrl REVISED -COUNTY TOTAL SHEETS NO. SECTION pw:\\IL084EBIDINTEG.Illinois.gov;PWIDQT\Do Coffices\District 3\Projects\D366J43\CADData\66J43-cc - JW REVISED -STATE OF ILLINOIS **GENERAL NOTES** BUREAU 12 2 (06-1HB)BP-2 CHECKED - RW REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 66J43 PLOT DATE = 8/10/2018 DATE - 04/30/2018 REVISED -SCALE: SHEET 1 OF 1 SHEETS STA. TO STA. ILLINOIS | FED. AID PROJECT

INSPECTORS:

				BR IDGE	PAINTING
					10% STATE
				BR IDGE	BR IDGE
CODE			TOTAL	0047	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 006-0038	S.N. 006-003
		-		-	-
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	425	425	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1275	425	850
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1	
7000230	INTERPRETATIONS, TENTONIAN (NON NEBTREETIVE), TEST EEVEL S	Z/ICII	1	•	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	1	2
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3410	1705	1705
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	920	460	460
X0325969	PORTABLE, VEHICLE MOUNTED CHANGEABLE MESSAGE BOARD	CAL DA	325	162.5	162.5
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1500	750	750
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	4	2	2
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1	
			-	-	
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1		1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1	0.5	0.5

CONSTRUCTION CODE

COUNTY TOTAL SHEET NO.

BUREAU 12 3 F.A.I. RTE. SECTION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **SUMMARY OF QUANTITIES** DT Offices\District 3\Projects\D366J43\CADData\66J43-cover.dgn DRAWN - JW REVISED -(06-1HB)BP-2 CHECKED - RW REVISED -CONTRACT NO. 66J43 PLOT DATE = 8/10/2018 DATE - 05/14/2018 REVISED -SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

FILE NAME =

pw:\\IL084EBIDINTEG.Iliin

USER NAME = woodshankri

DESIGNED - JW

REVISED -

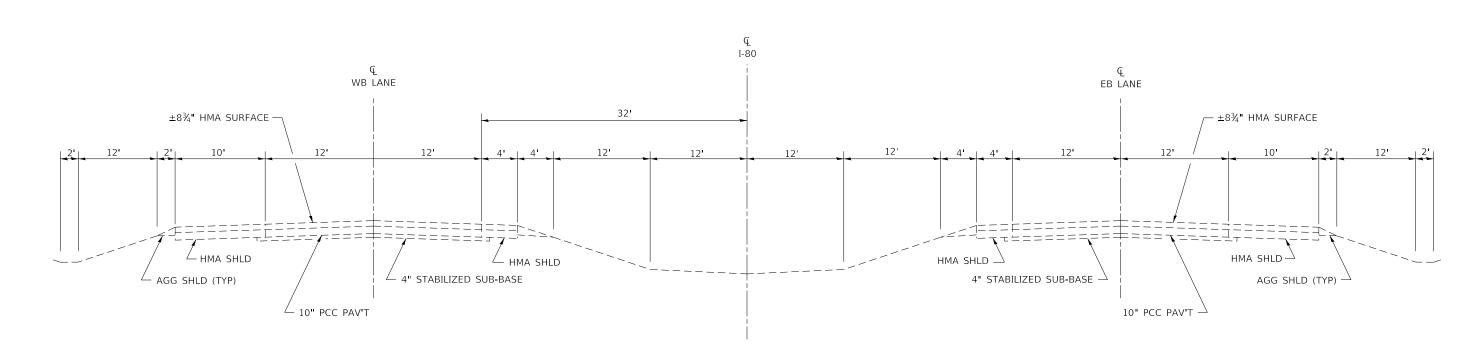
				BR I DGE I	PAINTING
				90% FEDERAL	10% STATE
				BR I DGE	BR I DGE
CODE			TOTAL	0047	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 006-0038	S.N. 006-0039
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1

FILE NAME =	USER NAME = woodshankri	DESIGNED	-	JW	REVISED	-
pw:\\IL084EBIDINTEG.IIInols.gov:PWIDOT\Documents\ID	DT Offices\District 3\Projects\D366J43\CADData\66J43-cover.dg	n DRAWN	-	JW	REVISED	-
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Default	PLOT DATE = 8/10/2018	DATE	-	05/14/2018	REVISED	-

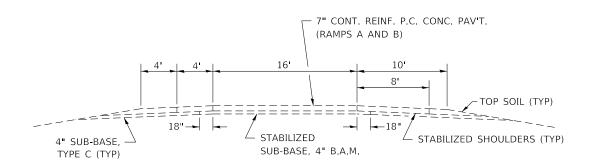
SCALE:

	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES		(06-1HB)BP-2	BUREAU	12	4
			CONTRA	CT NO.	66J43
SHEET 2 OF 2 SHEETS STA TO STA		LUNION EED AN	D DDO JECT		

CONSTRUCTION CODE

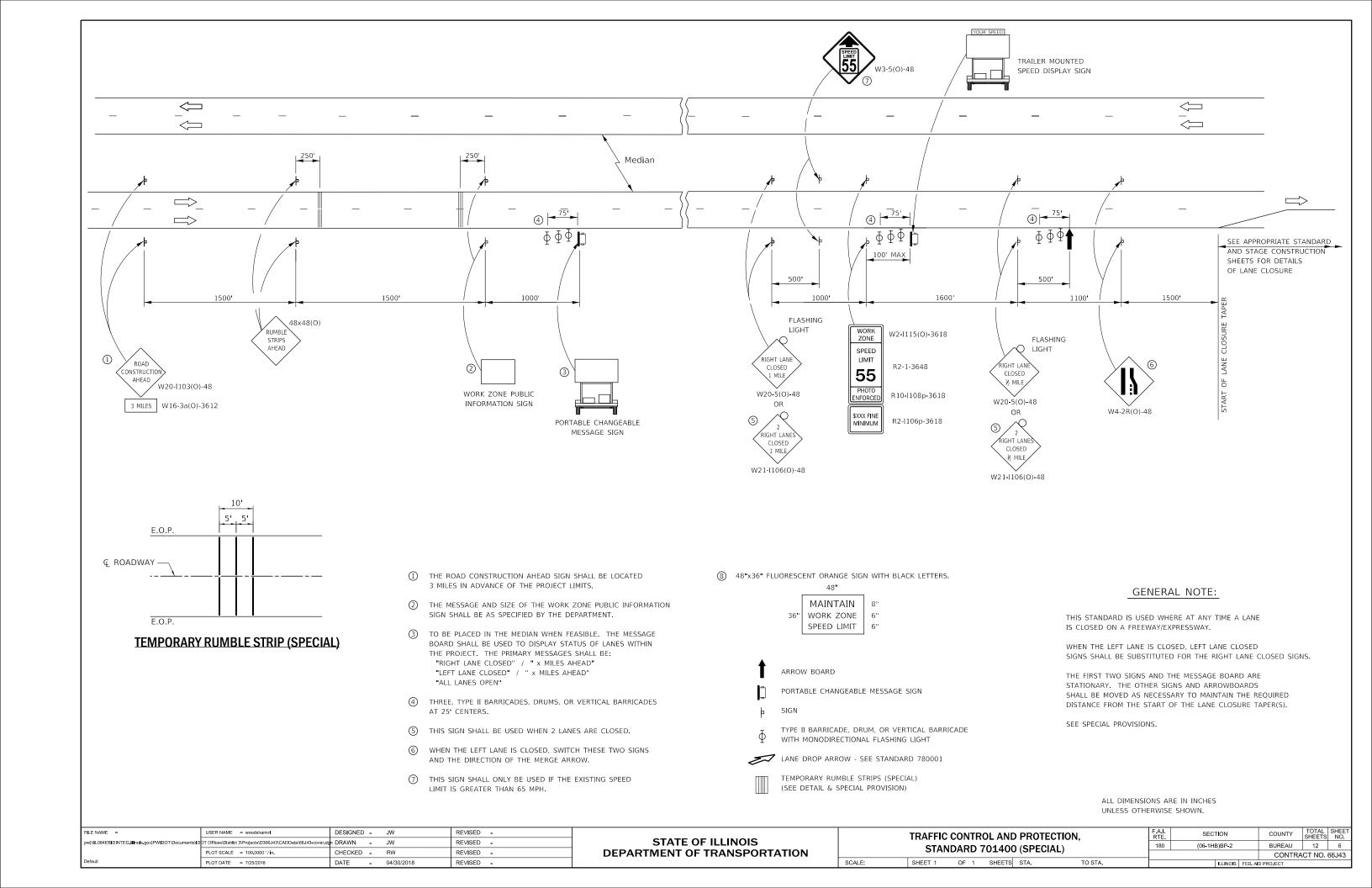


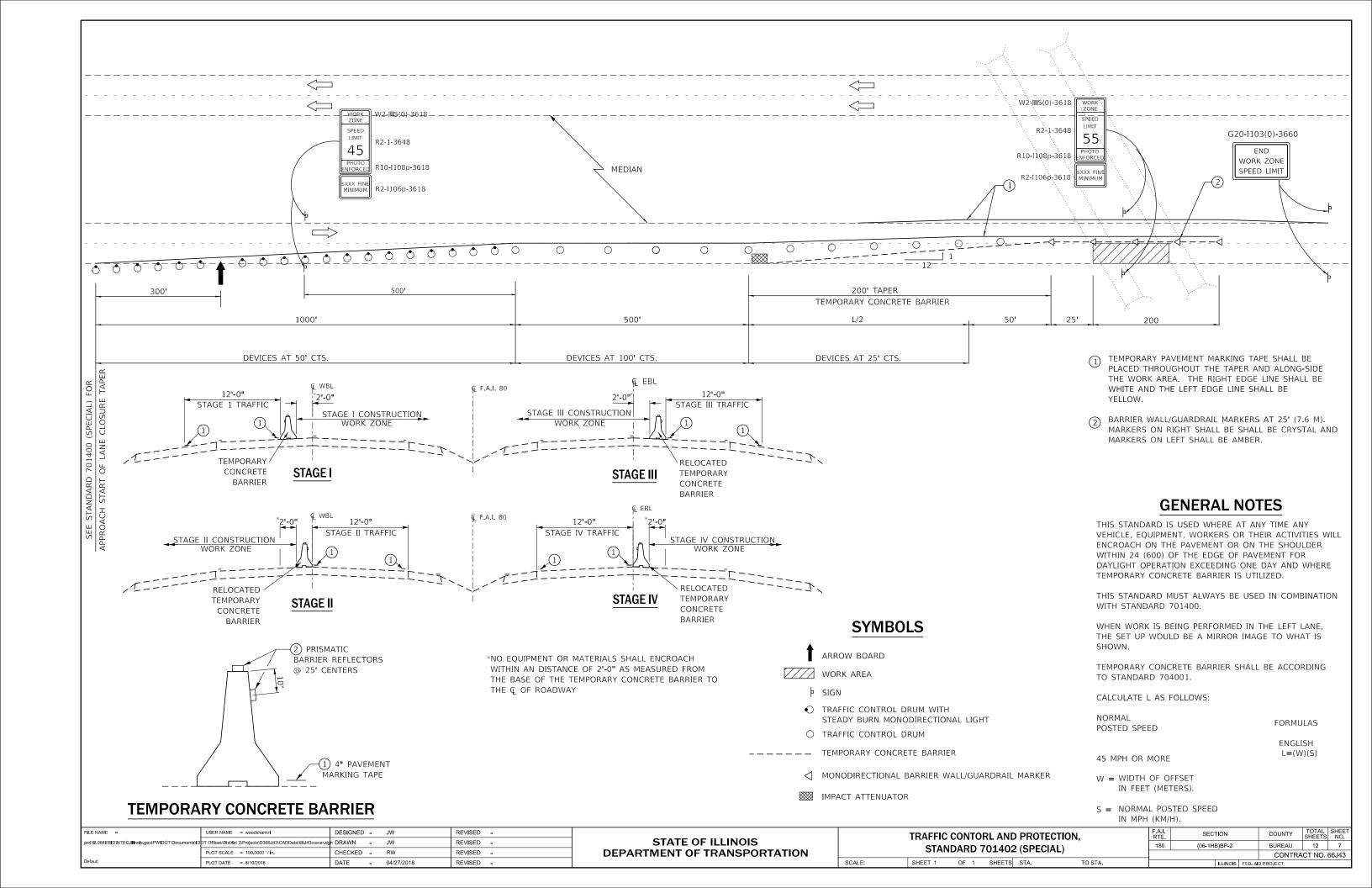
# TYPICAL SECTION I-80

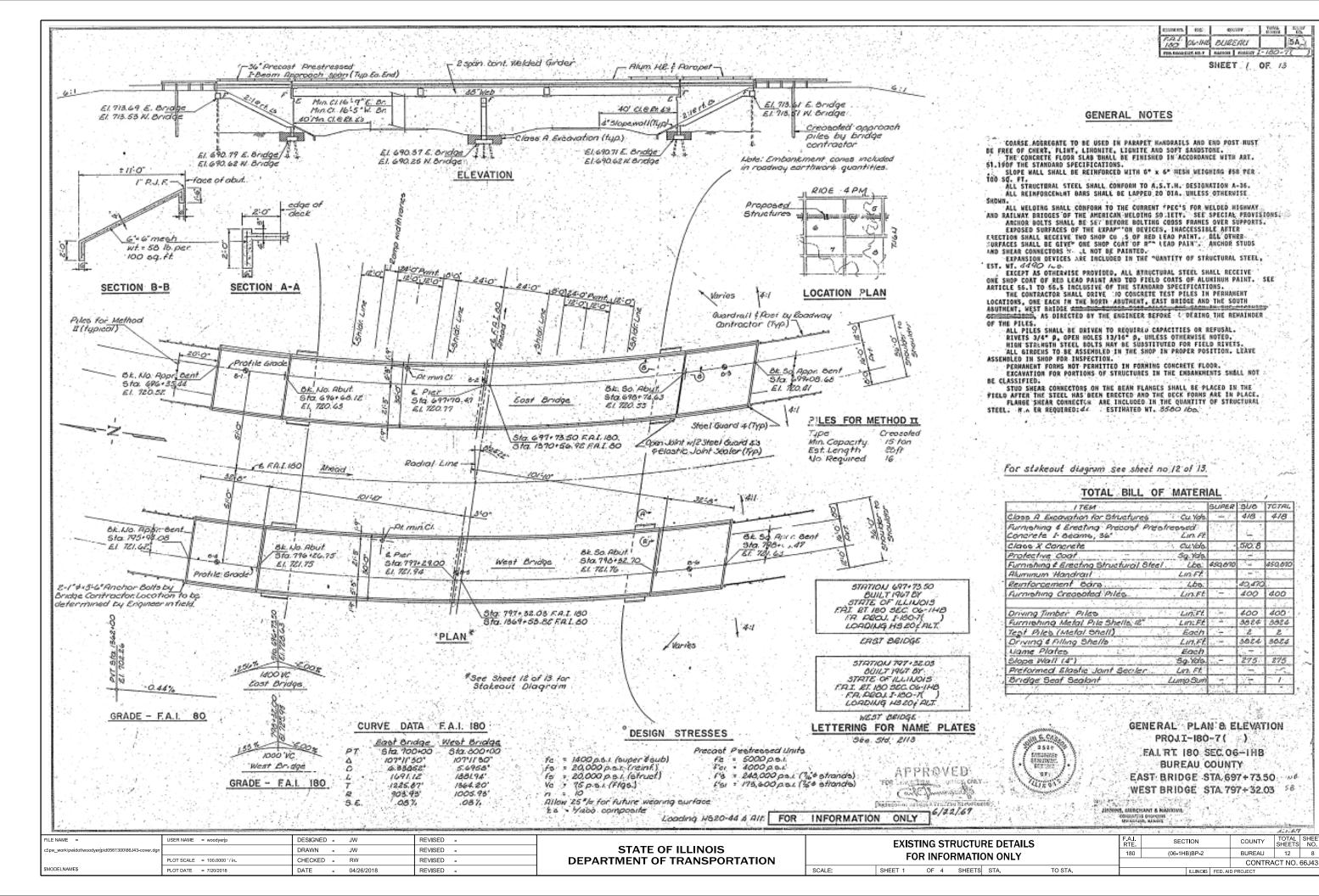


# TYPICAL SECTION I-180 AT I-80 INTERCHANGE RAMPS A AND B

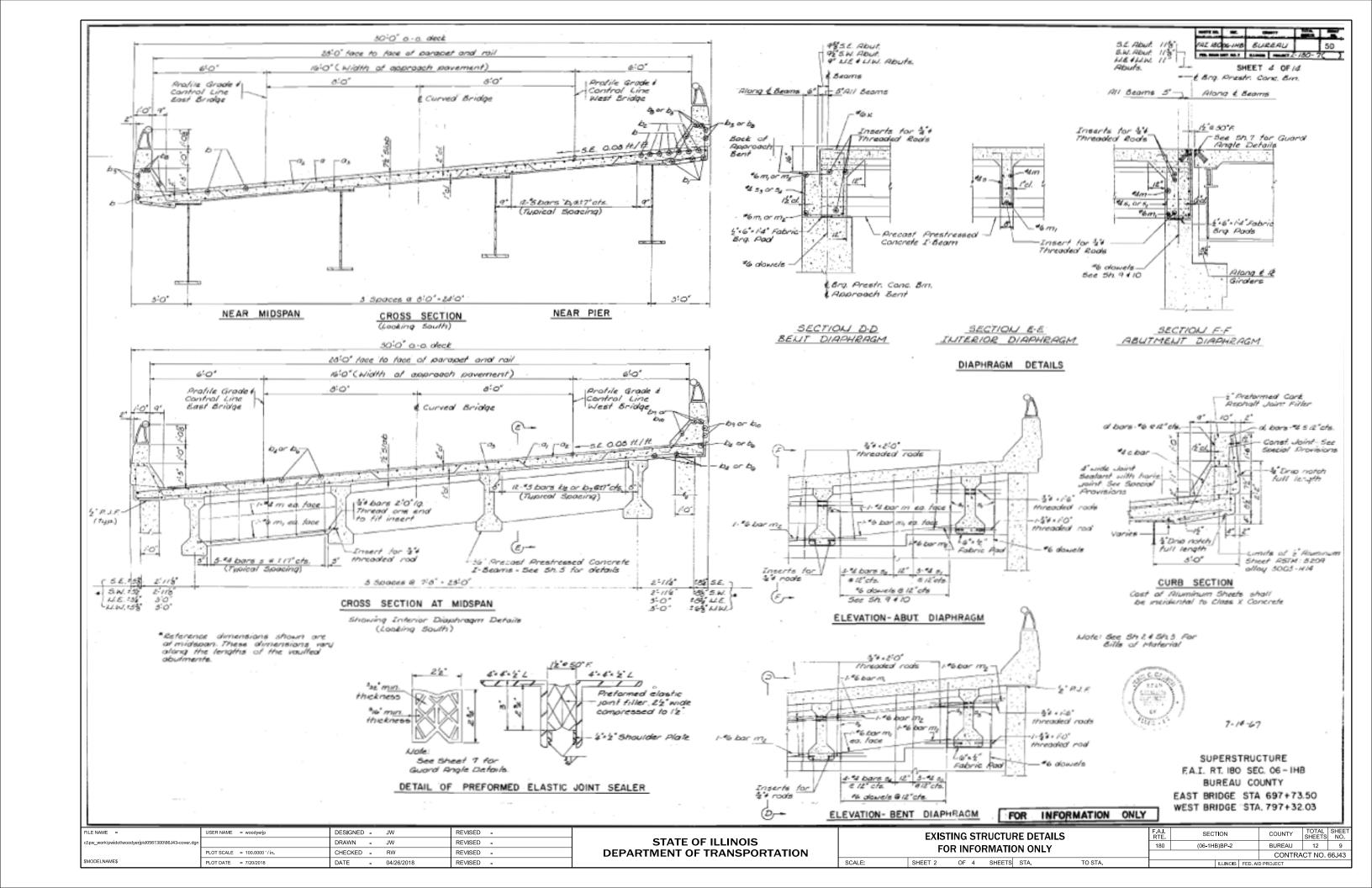
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	RW	REVISED -	DEPARTMENT OF TRANSPORTATION					(	CONTRA	ACT NO. 66J43
\$MODELNAME\$	PLOT DATE = 7/20/2018	DATE -	04/30/2018	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

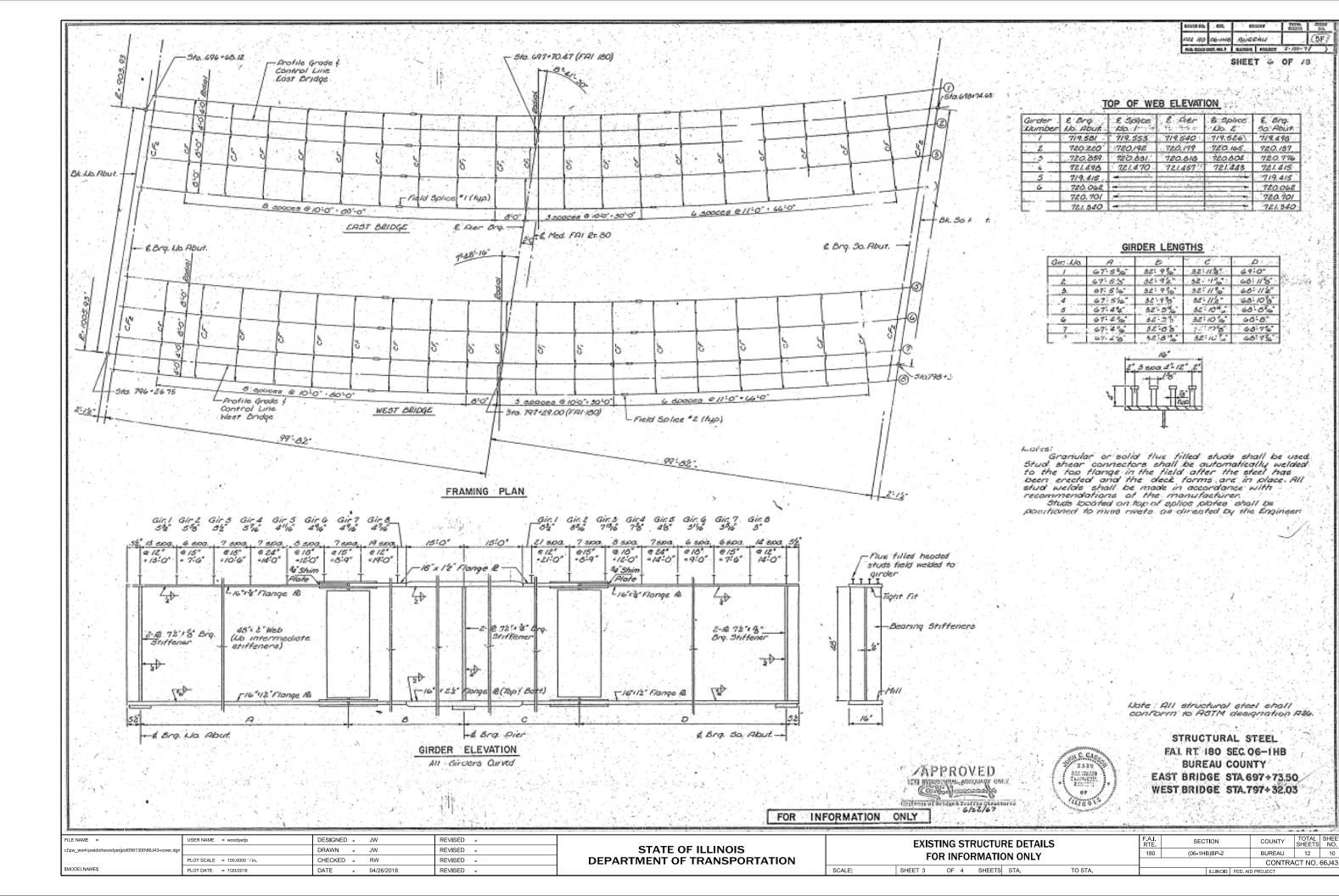


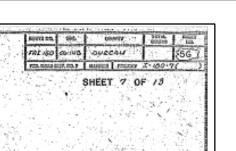


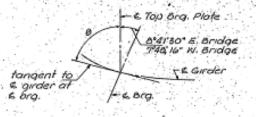


450,810









### TOP BEARING PLATE LOCATION

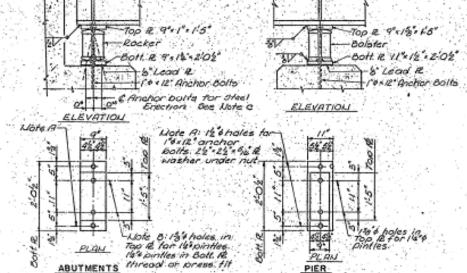
### ANGLE 0

Girder Mumber	& Brg. No. Abut.	& Brg.	& Brg. Bo. Abut.
21. /	85'89'28"	90'02'20"	96" 31'55"
.2	88'86'18"	89°57'41"	90 25 40
3	83"87'00"	89°53'07'	96" 15" 35"
4	03'35'40'	09'40'57	96'07'35"
5	04'80'24"	90"09:34"	94 05 47
6	84" 19.22"	90'05'42"	95'56'55'
7	84'18' 20"	9001153	95*5015*
8	64" 17'20"	59.55.05	95048.80

Plane Edges

& gusset & (typ.)

3 4 rivers tupical



BEARING DETAILS

BOLSTER DETAILS

typical

# 624 s except

where brg. stiff.

at pier is used

D. CCFI ONLY

(4° pintles, thread or press fit

18 tholes, I'deep for 14 pintles

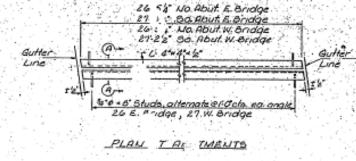
Note C: D\*'s per each 100'of contraction for every 15' fall below the normal temp of 50' F.
D\*\* 8' per each 100'of expansion for every 15' tree above the normal temp of 50' F.
After beams have been erected and dimensions D\* or D\*\* determined, hales
shall be drilled and anchor bolts shall be grouted in place:

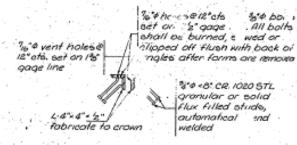
(15%</h/>

PIER

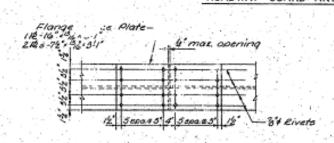
14 6 printles, thread

PINTLE



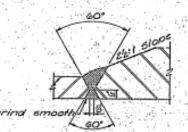


### ROADWAY GUARD ANGLE DETAILS



SPLICE DETAIL

6 & Rivets



FLANGE WELDING DETAIL (Jupical):

Weight of bearing ossemblies with lead plates and anchor bolts are included as Structural Steel Est Wt. = 9840 jbs.



- Alle	17. 2			Jan 1980	
222200	4.1				
			10.0	17 15 0	
off a market and		40	7 1		
offic Structures		-1.			
,					

### Hote: All structural steel shall conform to ASTM designation AS.

STRUCTU	RAL STEEL
and the state of t	SEC. O'G- IHB
BUREAU	COUNTY
EAST BRIDGE	STA.697+73.50
WEST BRIDGE	STA.797+32.03

COUNTY

BUREAU

12 11

CONTRACT NO. 66J43

SECTION

STRESS TABLE

C1-6 32 - 32 x 36

CROSS FRAME CF & CFI

24 5025°

ROCKER DETAILS

Mome	nts*	FY K	106	- 14.1		Moment Vress E.L	Rec	action	- Kipe	9
Location	0.43	Span	Pk	y	0.4 Spor	Pier	AL	ints.	Pic	C
Girdero	Int	Ext.	Lat	Ext	Ext	Ext	Int.	Ext	Int:	Ext.
POL	9/2	1100	1856	2100	0.56	0.65	390	58.6	124 5	190.0
LL	91E.	Bloke	979	65E	0.45	0.81	48.7	\$6.7	870	:51.0
Imp:	210	200	225.	149	1.10	0.04:	11.2	108	200	12.0
Total .	2034	2166	3040	2901	7.77	0.90	989	116.1	288.0	268.0

Moment values represent the sum of primary moments plus secondary moments due to curvature.

### PROPERTIES

& bent R (typ)

12 WF40

4.5×26×3

CL 32" 35" 1 "16

CROSS FRAME CF2

12 Regid

St	eel Section	Composite Section.					
Lo .	55,600 in4	Ic.	60870 int				
Sm	2100 in	Src	3120 in 3				
See	: 2100 In3	Sec	1590 ins				
Stor	106.71173	Ster	38.0 m3				
See	106.71113	Secr.	64.0 m3				

D.L.	Dead Load
Like	Live Load
Imp.	Impact
/s	Moment of Inertia Steel Section at Pier
Srs.	Section Modulus Top Steel Section of Pier
300	Section Modulus Bottom Steel Beation of Pier
Ster	Section Modulus Top Flange Steel Section at Pier
See	Section Modulus Boltom Flange Steel Section at P.
Ic .	Moment of Inertia Composite Section
STC.	Section Modulus Top Composite Section
500	Section Modulus Softon Composite Section
STOR	Section Modulus Top Flange Composite Section 1
SACE	Section Modulus Bottom Flange Composite Section

SCALE:

Wieb Splice Plate

each side of well

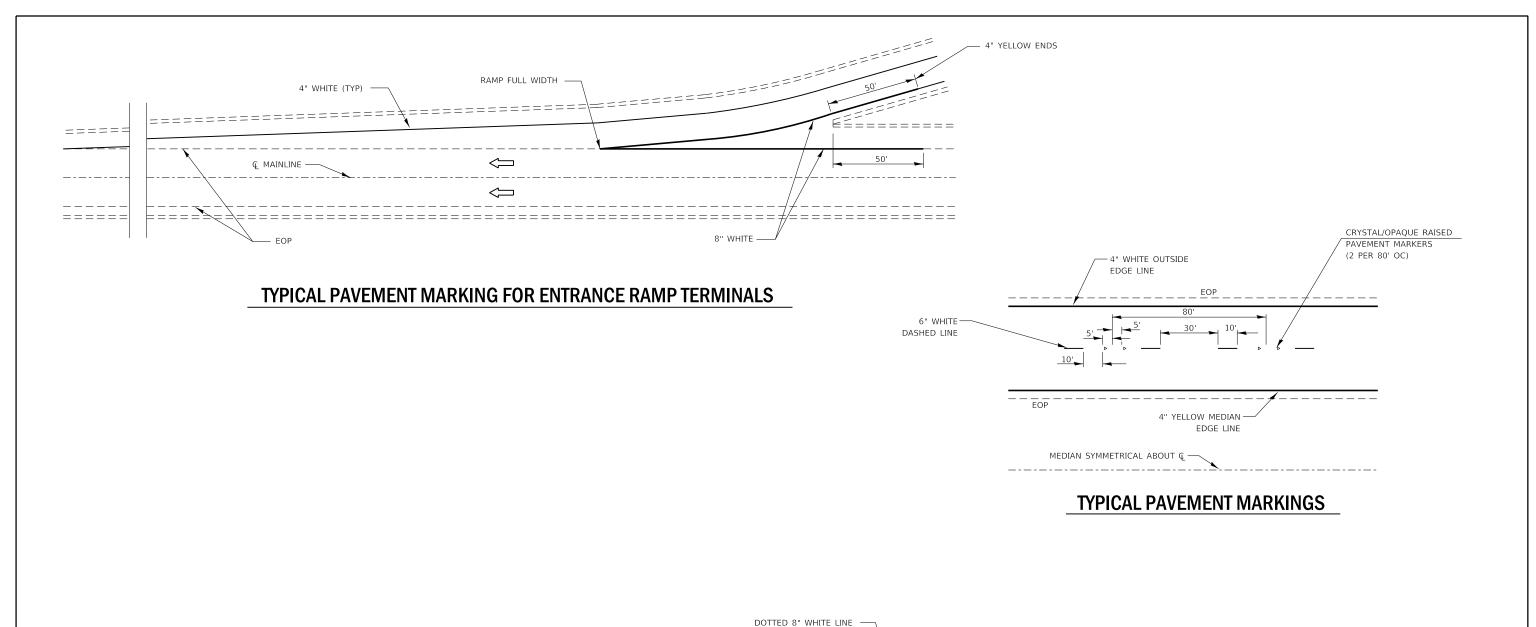
Bro. Stift

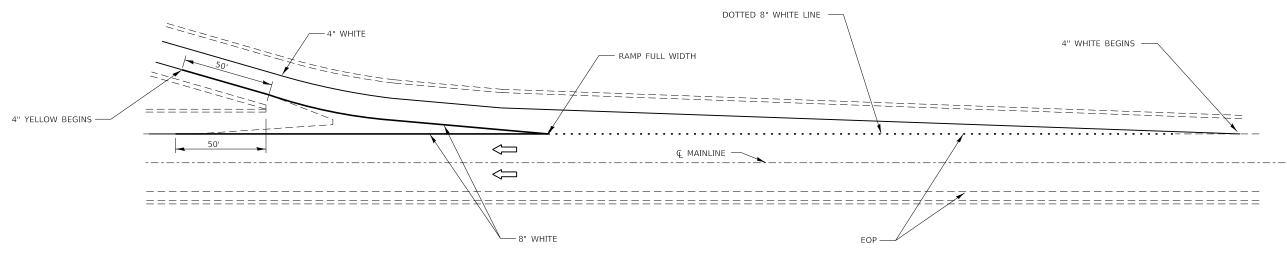
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d	FOR	INFORMATION	ONLY

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\$1	MODELNAME\$	PLOT DATE = 7/20/2018	DATE -	-	04/26/2018	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

e Section			
EXISTING STRUCTURE DETAILS	F.A.I. RTE.	SECTION	
FOR INFORMATION ONLY	180	(06-1HB)BP-2	_
TON INTONIMATION ONET			
OUEET 4 OF 4 OUEETO OTA TO OTA			-





# TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	JW	REVISED -								F.A.I.	SECTION	COUNTY	SHEETS	NO.
c:\pw_work\pwidot\woodyerjp\d0561300\66J43-cover.dgn		DRAWN -	JW	REVISED -	STATE OF ILLINOIS	PAVEMENT MARKINGS					180	(06-1HB)BP-2	BUREAU	12	12	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	RW	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTR	ACT NO. 66	δJ43	
\$MODELNAME\$	PLOT DATE = 7/20/2018	DATE -	04/27/2018	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS F	ED. AID PROJECT						