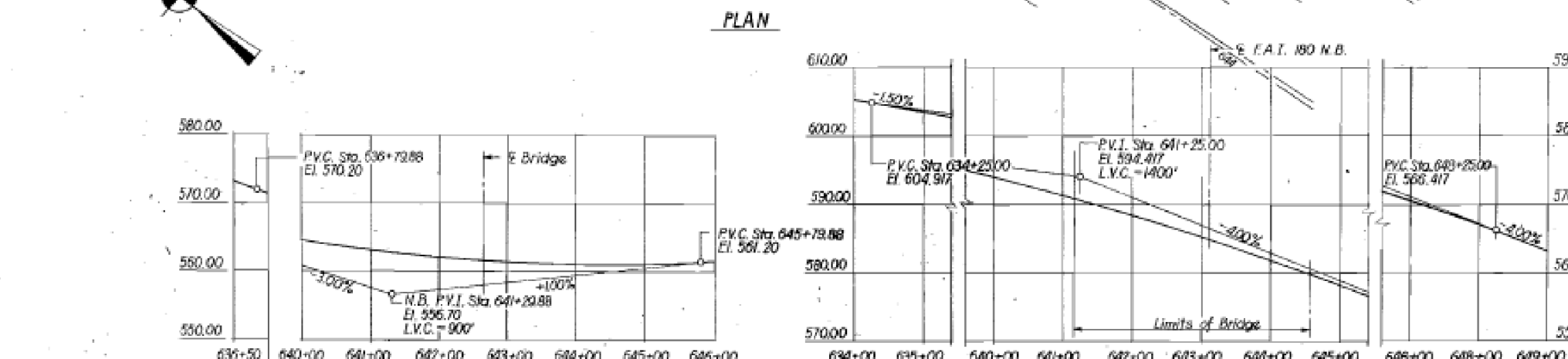
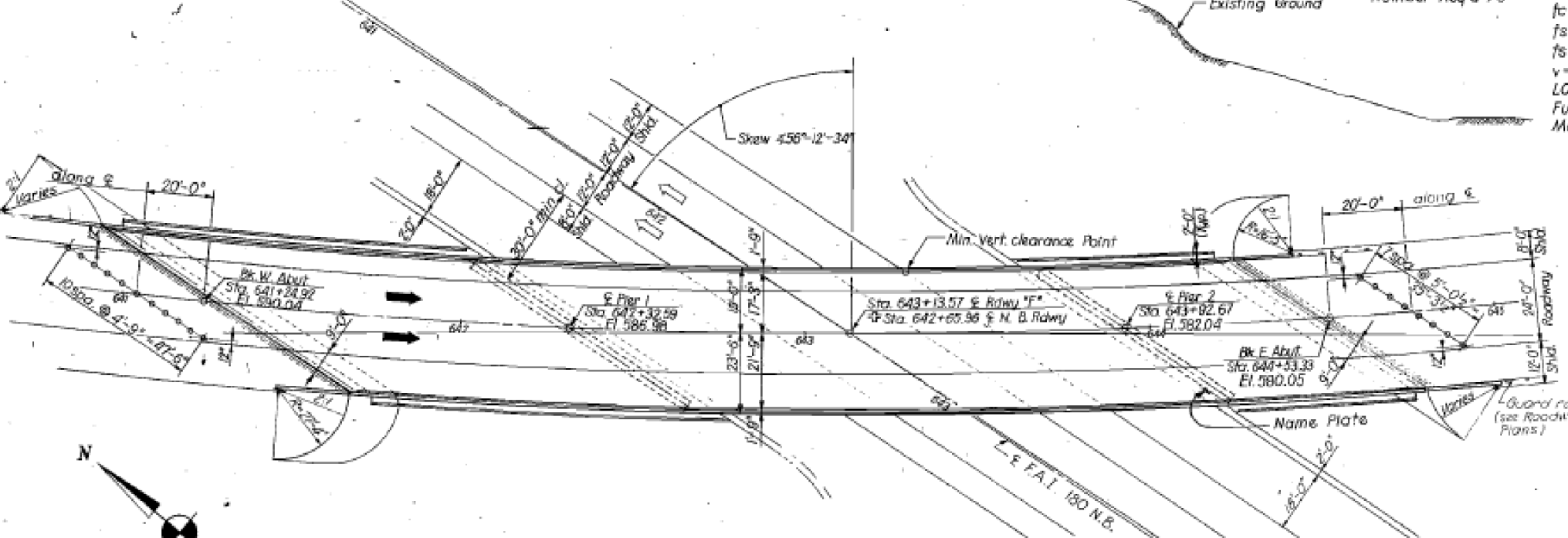
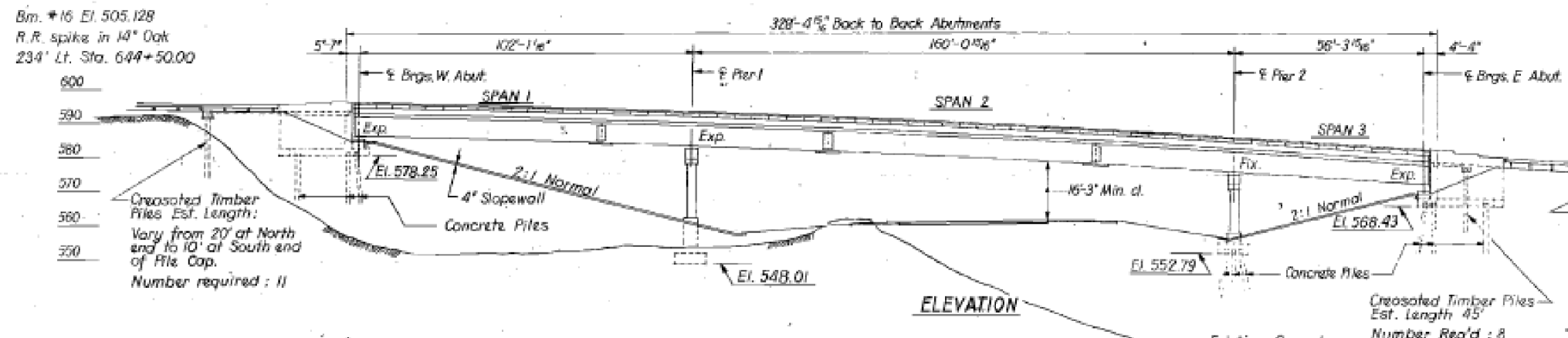


Bm. #16 El. 505.128
R.R. spikes in 14" Oak
234' Lt. Sta. 644+50.00



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.T.-180	06-2HB-3	BUREAU		390
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT	T-180-7141	

GENERAL NOTES

The coarse aggregate to be used in Parapet Handrails and end Post must be free of chert, flint, limonite, lignite and soft sandstones. The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications.

Permanent forms will not be permitted in forming the concrete floor.

Slope wall shall be reinforced with welded wire fabric, 6" x 6" mesh, weighing 58# per 100 sq. ft.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

All structural steel shall conform to ASTM designation A-36
Rivets 3/4" ϕ , open holes 1 3/8" ϕ unless otherwise noted

Anchor bolts shall be set before riveting diaphragms over supports.

Exposed surfaces of the expansion devices shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.

Expansion devices are included in the quantity of structural steel. Est. weight = 12,040 Lbs.

Except as otherwise provided all structural Steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions for field paint.

The Contractor shall drive one concrete test pile in a permanent location at each abutment and one at Pier No.2 as directed by the Engineer before ordering the remainder of Piles.

Concrete Piles shall be driven in accordance with article 60.9 (C) of the Standard Specifications, except preloading of holes shall extend to a depth of 14 ft. at West Abut., 35 ft. at East Abut. and 16 ft. at Pier No. 2.

Excavation for portions of structure in the embankment shall not be classified.

Welding Specifications: AWS D2.0-66.

TOTAL BILL OF MATERIAL

Items	Unit	Superstr.	Substr.	Total
Class "A" Excavation for Structures	Cu. Yds.	—	104	104
Class "X" Concrete	Cu. Yds.	456.4	553.1	1,009.5
Protective Coat	Sq. Yds.	—	1,700	1,700
Furnishing and Erect Struct. Steel	Lbs.	658,540	—	658,540
Reinforcement Bars	Lbs.	126,260	655.90	191,850
Furnishing Cased Piles	Lin. Ft.	—	525	525
Driving Timber Piles	Lin. Ft.	—	525	525
Driving Concrete Piles	Lin. Ft.	—	3744	3744
Furnishing Concrete Piles	Lin. Ft.	—	3744	3744
Test Piles (Concrete)	Ea.	—	3	3
Name Plates	Each	—	1	1
Slope Wall 4"	Sq. Yds.	—	1,050	1,050
Aluminum Handrail	Lin. Ft.	6440	—	644
Bridges Seat Sealant *	L. S.	—	1	1

BRIDGE NO. 7.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GENERAL PLAN

ROADWAY F OVER
F.A.I. ROUTE 180 - NORTHBOUND

STATION 643+65.96

STATION 648+65.96		
F.A.I. RT.180	BUREAU COUNTY	SECTION 06-2HB-3

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

LN 06-2HB-3	SHEET
	1A of 17

DESIGN STRESSES AND LOADS

$f_c = 4,000$ psi. Super & Substructure
 $f_s = 20,000$ psi. Structural Steel (A-36)
 $f_s = 20,000$ psi. Reinforcement
 $v = 75$ psi. Pier Footing. $n = 10$
 LOADING: HS20-44 and Alternate
 Future Wearing Surface 2.5 #/sq'.
 Max. allowable LL Deflection = $\frac{L}{1,000}$

CURVE DATA RDWY *F

$P.L. = \text{Sta. } 653 + 08.528$
 $\Delta = 91^{\circ} - 36' - 27''$
 $D = 3^{\circ} - 00' - 00''$
 $R = 909.859'$
 $T = 1,964.209'$
 $L = 3,053.583'$
 $E = 829.790'$
 $P.C. = \text{Sta. } 633 + 44.317$
 $P.T. = \text{Sta. } 663 + 97.900$

CURVE DATA I-180 N.

PI. - Sta. 638+90.515
 Δ = 9°-30'-00"
D = 0°-30'-00"
R = 11,459.156'
T = 952.182'
L = 1,900.000'
E = 39.492'
P.C. - Sta. 629+38.333
P.T. - Sta. 646+38.333

* Bridge Seat Sealant to be used at both East and West Abutments.

Notes: All cross reference sheet numbers shown on the bridge plans are the numbers located in the lower right hand corner of each sheet.

For Geometric Layout, Slopewall and Name Plate details see Sht. No. 2

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

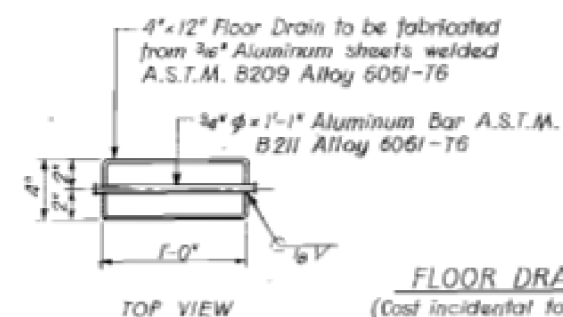
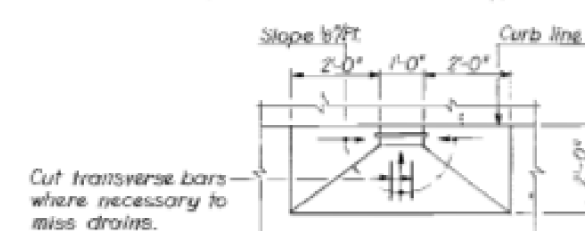
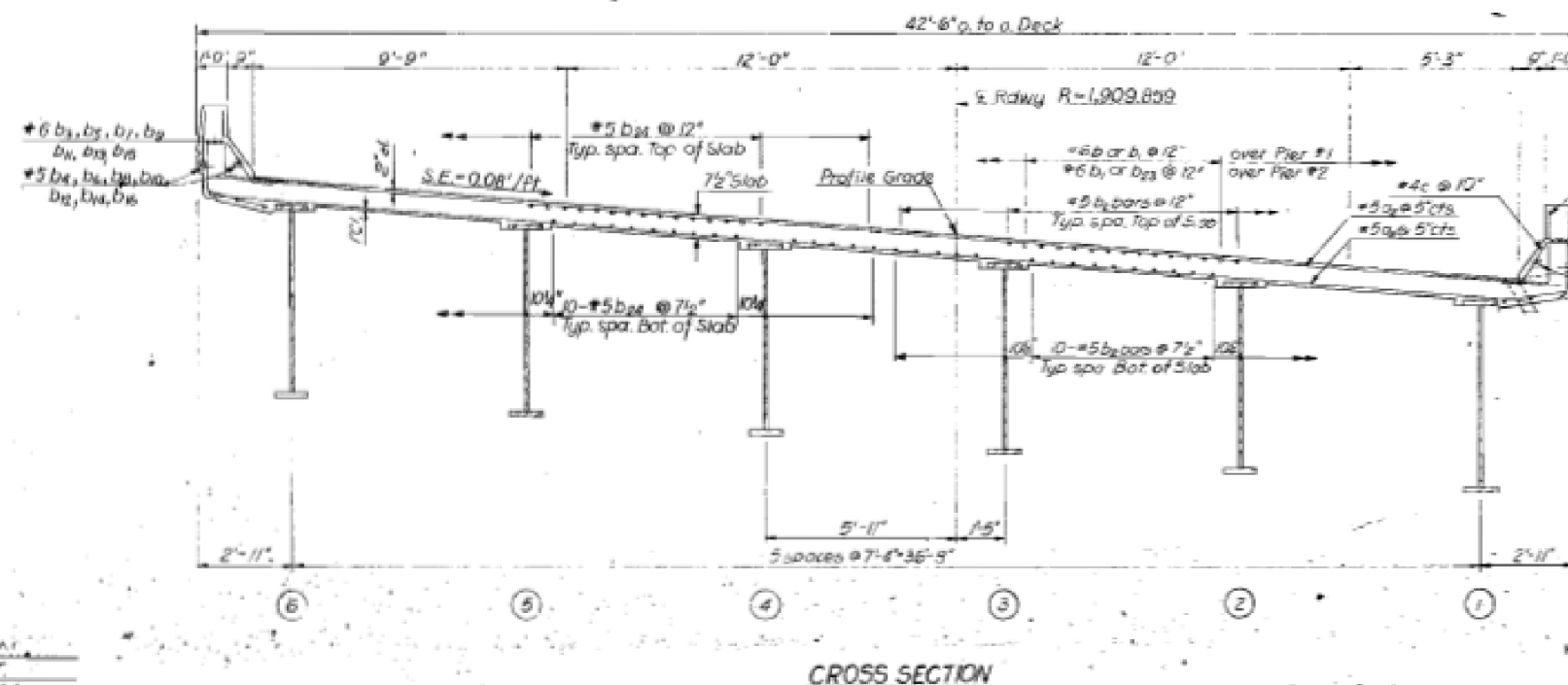
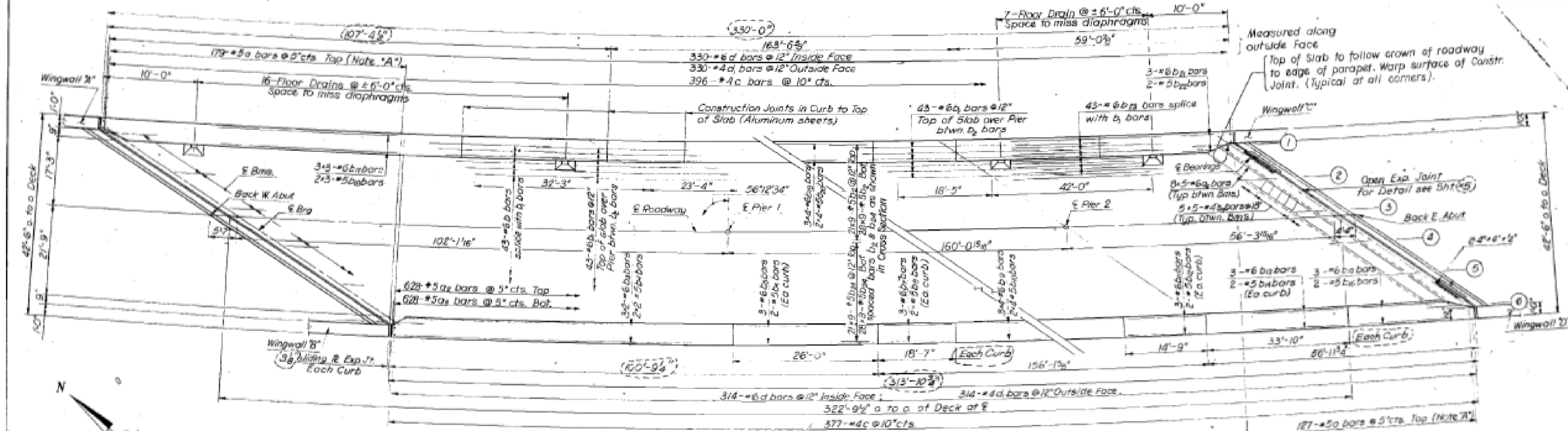
GENERAL PLAN AND ELEVATION FOR STRUCTURE NO. 006-0055 (SB / EB)
FOR INFORMATION ONLY

SCALE:	SHEET 2 OF 7 SHEETS	STA.	TO STA.
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	DRAWN - RW	REVISED -
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PLOT DATE = 7/14/2025	DATE - 2/21/2024	REVISED -

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 180	06-2HB-3	BUREAU		393
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



Concrete deck pouring sequence
In pour, the concrete deck the contractor shall follow the sequence described below:
Step 1 - Four Spans 3
Step 2 - Four Spans 1
Step 3 - Four Spans 2

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FOR STRUCTURAL ADEQUACY ONLY
9-11-67

BRIDGE NO. 7				
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BLDGS. DIVISION OF HIGHWAYS SUPERSTRUCTURE ROADWAY "F" OVER F.A.I. ROUTE 180-NORTHBOUND				
STATION 642+00.00				
F.A.I. RT. 180 BUREAU COUNTY SECTION 06-2HB-3				
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS				
				SHEET NO. 4A OF 17

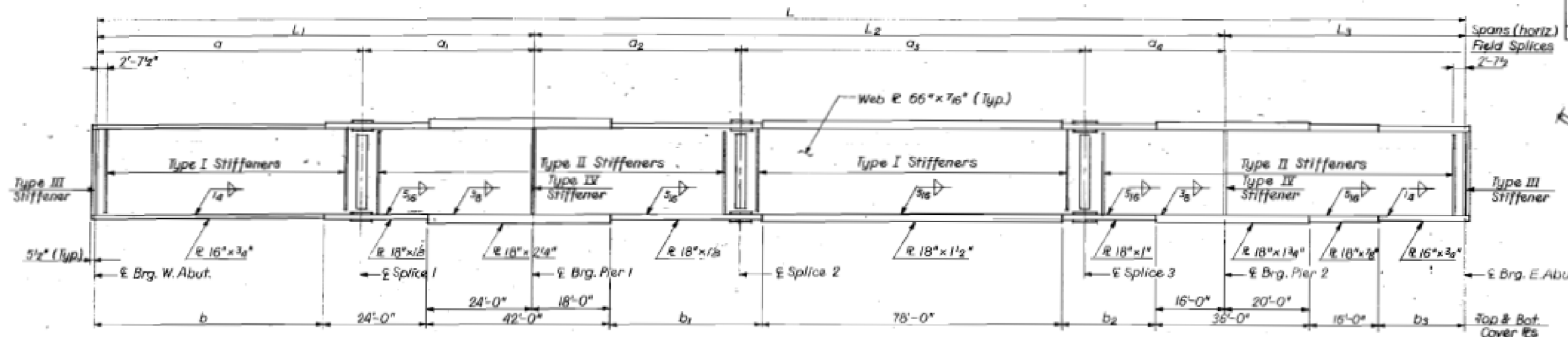
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PLOT DATE - 7/14/2025	DATE - 2/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION FOR STRUCTURE NO. 006-0055 (SB / EB)			
FOR INFORMATION ONLY			
SCALE:	SHEET 3 OF 7 SHEETS	STA.	TO STA.

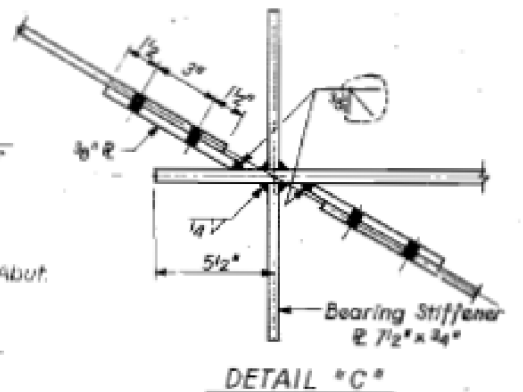
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180	06(2HB-3, 2HVB)BP	BUREAU	1	1
				CONTRACT NO. 66R92
				ILLINOIS FED. AID PROJECT

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Note: Type I & II Intermediate stiffeners shall be spaced at approximately 5'-0" cts. max. spacing of 5'-2"

GIRDER ELEVATION

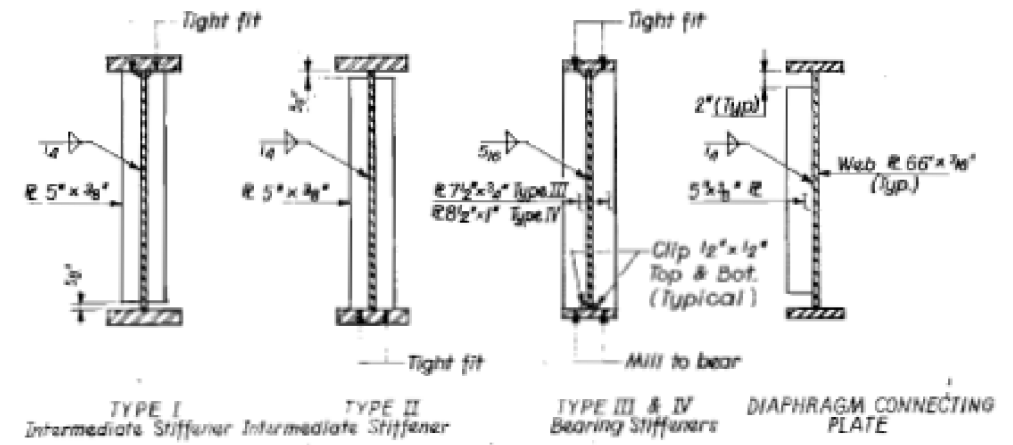


DETAIL 'C'

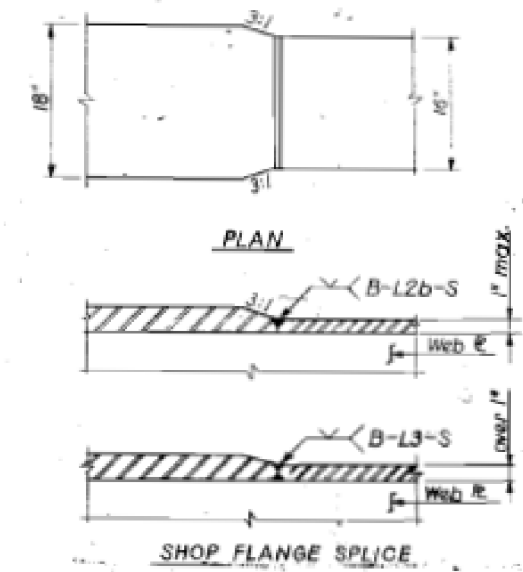
GIRDER SCHEDULE

GIRDER	L	L ₁	L ₂	L ₃	a	a ₁	a ₂	a ₃	a ₄	b	b ₁	b ₂	b ₃	GIRDER # RADIUS
1	325'-3 3/8"	104'-10 1/8"	163'-2 1/8"	57'-2 1/8"	61'-8 3/4"	43'-1 3/8"	40'-4 1/8"	89'-8 5/8"	33'-1 5/8"	56'-10 5/8"	29'-2 3/8"	22'-0"	21'-2 3/8"	1,893.776
2	322'-1 1/8"	103'-6 3/4"	161'-9 3/8"	56'-9 1/2"	60'-11 1/8"	42'-7 1/8"	39'-11 1/8"	88'-11 1/8"	32'-10 1/2"	55'-6 3/4"	27'-9 3/8"	22'-0"	20'-9 1/2"	1,901.109
3	319'-0 3/8"	102'-3 3/8"	160'-4 1/8"	56'-4 1/8"	60'-1 1/8"	42'-2"	39'-6 3/4"	88'-1 3/8"	32'-7 9/8"	54'-3 3/8"	26'-4 1/8"	22'-0"	20'-4 1/8"	1,908.442
4	316'-1 1/8"	101'-1 3/4"	158'-11 1/8"	56'-0 3/8"	59'-5 3/8"	41'-8 3/8"	39'-2 3/8"	87'-4 3/8"	32'-4 5/8"	53'-1 3/4"	24'-11 1/8"	22'-0"	20'-0 3/8"	1,915.775
5	313'-4"	100'-0 1/8"	157'-7 1/8"	55'-7 1/8"	58'-8 3/8"	41'-3 3/8"	38'-9 3/4"	86'-8 1/4"	32'-1 7/8"	52'-0 1/2"	23'-7 1/2"	22'-0"	19'-7 1/8"	1,923.108
6	310'-7 3/8"	98'-11 1/4"	156'-4 1/8"	55'-3 1/4"	58'-0 7/8"	40'-10 3/8"	38'-5 1/2"	86'-0"	31'-11 1/8"	50'-11 1/4"	22'-4 5/8"	22'-0"	19'-3 1/4"	1,930.441

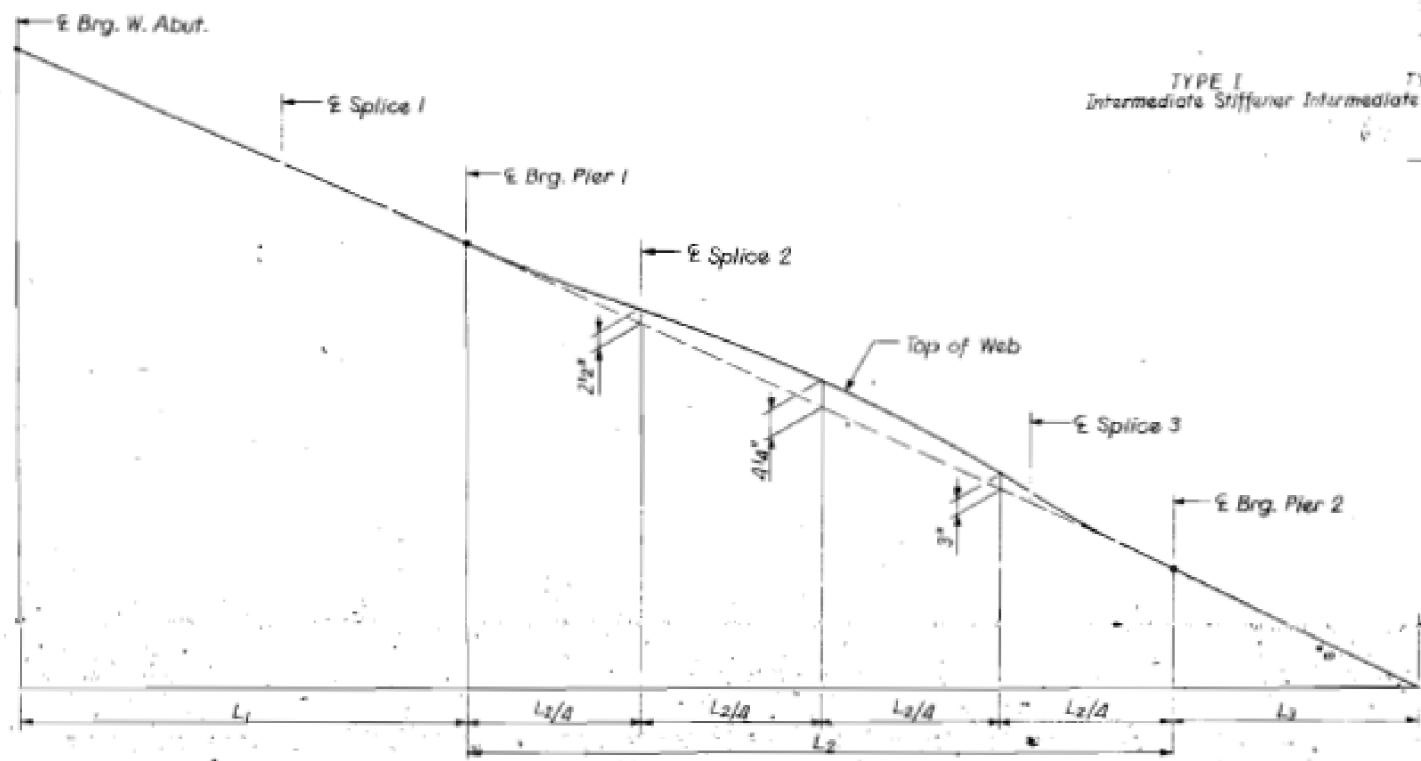
* All Girders to be curved to their respective radii.



STIFFENER DETAILS



Note: Finish transition weld to required conformation by grinding transversely to the welded joint.



CAMBER DIAGRAM

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FOR STRUCTURAL ASSOCIATION ONLY
9-11-67
Engineer of Bridge & Truss Structures

BRIDGE NO. 7

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDER DETAILS
ROADWAY "F" OVER
F. A. I. ROUTE 180-NORTHBOUND

STATION 642+65.96
F. A. I. RT. 180 BUREAU COUNTY - SECTION 06-2HB-3

K. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
84 OF 17

MODEL: Default
FILE NAME: c:\pwwork\woodshank\137636892.dgn

DESIGNED BY: H. N.
DRAWN BY: B. B.
CHECKED BY: H. N.
APPROVED BY: A. T.

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PLOT DATE	= 7/14/2025	DATE	= 2/21/2024	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION FOR STRUCTURE NO. 006-0055 (SB / EB)
FOR INFORMATION ONLY

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	06(2HB-3, 2HVB)BP	BUREAU	1	1
CONTRACT NO. 66R92				
ILLINOIS FED. AID PROJECT				

