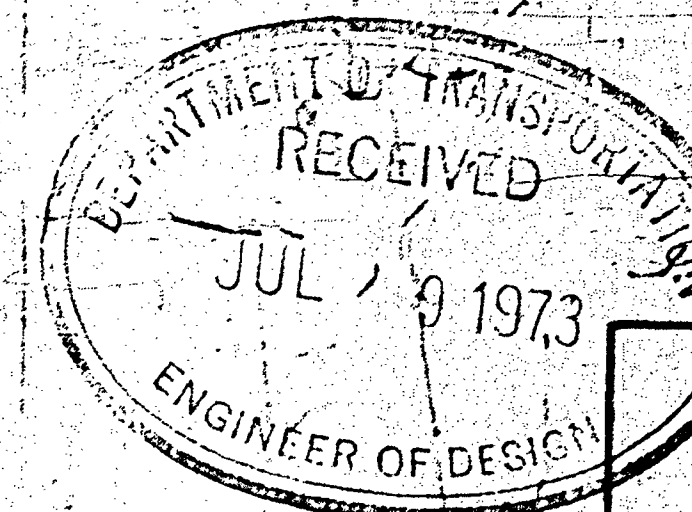


C. S. MONNIER, DIVISION ENGINEER  
BUREAU OF PUBLIC ROADS  
SPRINGFIELD, ILLINOIS

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID INTERSTATE HIGHWAY

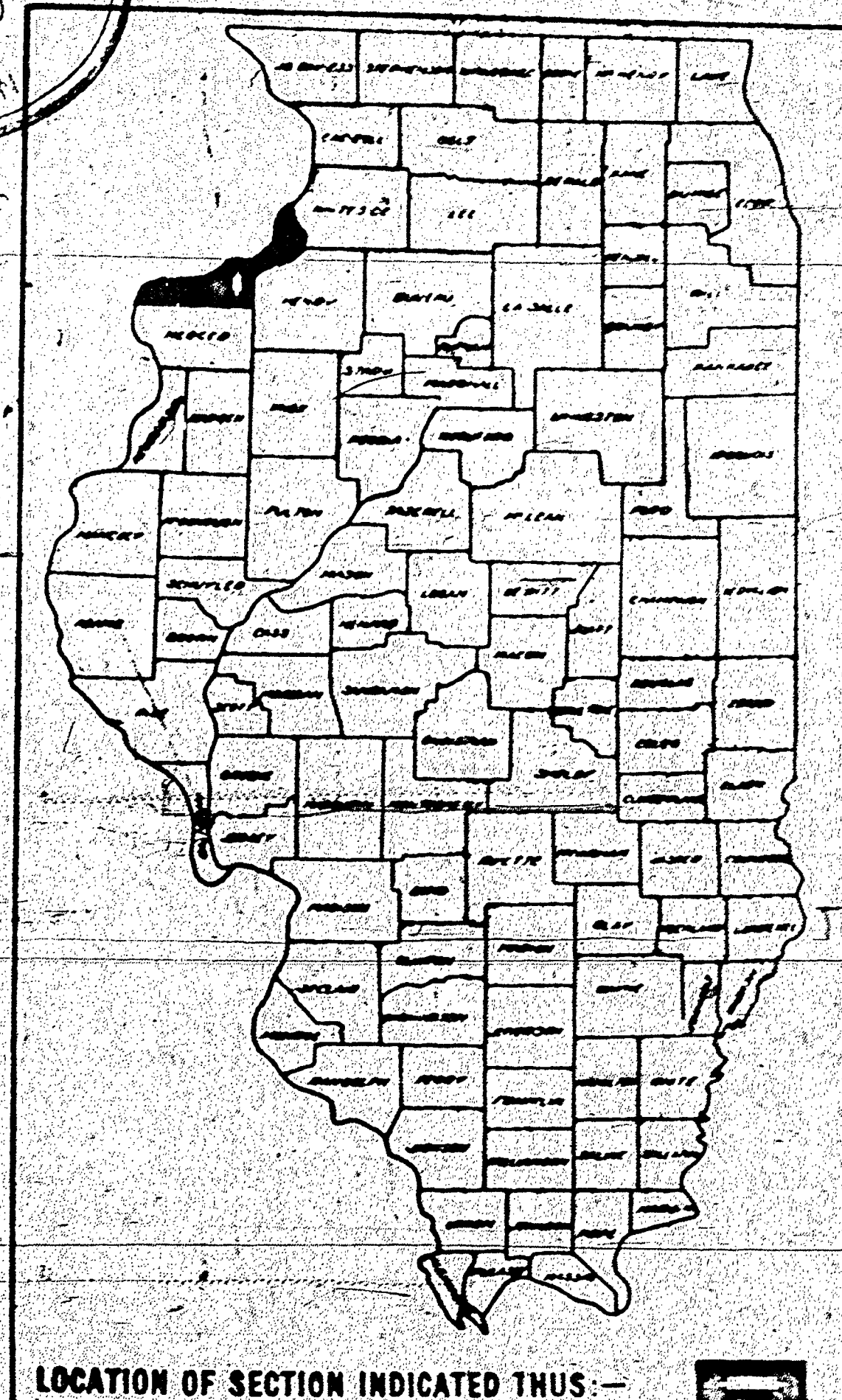


SECTION	COUNTY	TOTAL	ASST
74	81-1-2 ROCK ISLAND	389	1

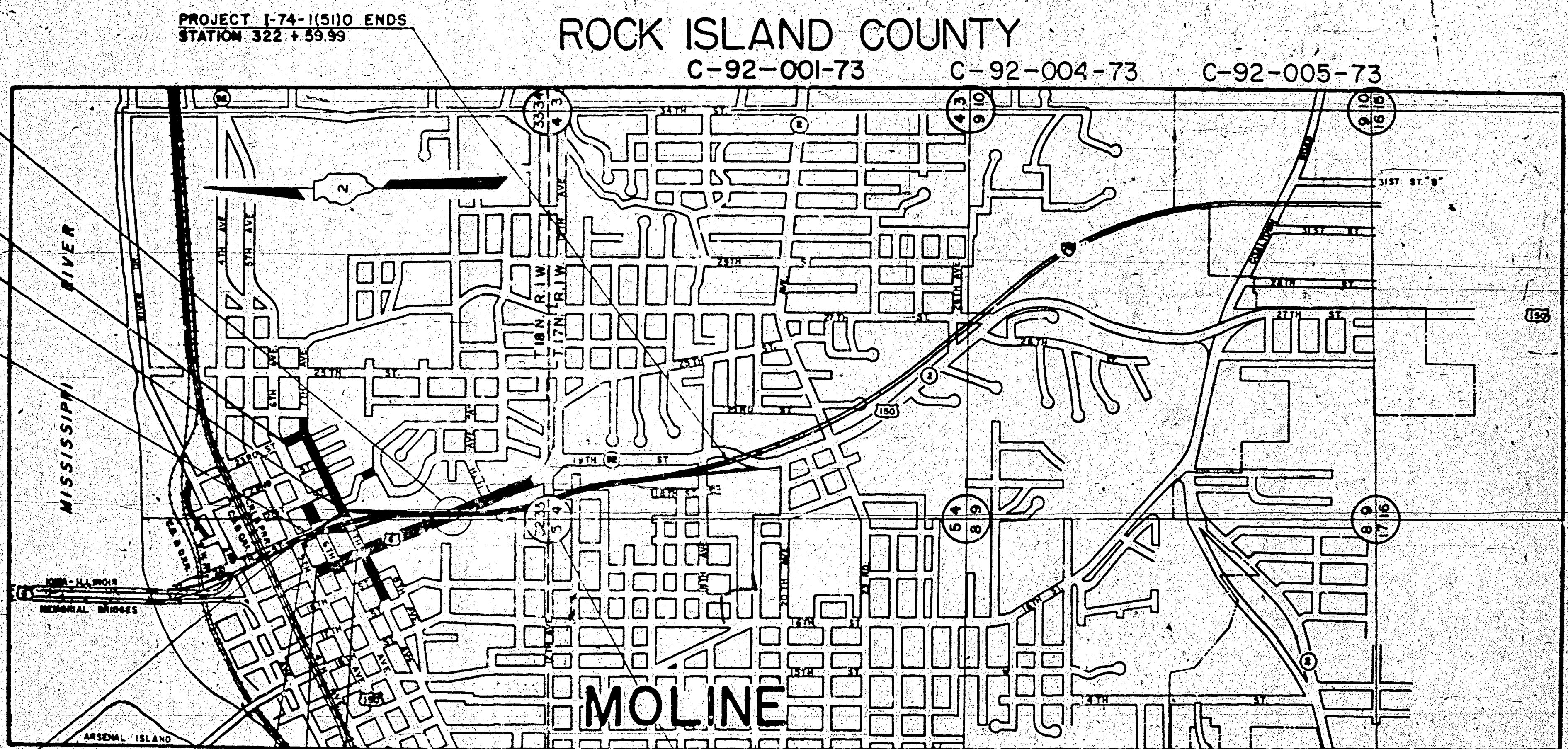
P-92-023-63

F.A.I. ROUTE 74 PROJECT I-74-1(51)0 SEC. 81-1-2, 81-IHVB-1, 81-IHB,  
 F.A. ROUTE 4 U-89(15) 81-IHB-1  
 F.A. ROUTE 53 F-155(25)

PLAN 1 INCH = 80 FT. OR 20 FT.  
 PROFILE HOR. 1 INCH = 50 FT.  
 PROFILE VERT. 1 INCH = 5 FT.  
 CROSS SECTION 1 INCH = 5 FT. OR 2 FT. VERT.  
 CROSS SECTION 1 INCH = 10 FT. OR 5 FT. HORIZ.



LOCATION OF SECTION INDICATED THIS -



**SECTION 81-IHVB-1**

SECTION 81-IHVB-1 INCLUDES THE CONSTRUCTION OF MULTI-SPAN WELDED STEEL STRUCTURES ON REINFORCED CONCRETE COLUMNS AND ABUTMENTS CARRYING THE FOLLOWING SPANS IN MOLINE, ILLINOIS:

1. NORTHBOUND AND SOUTHBOUND F.A.I. ROUTE 74 FROM THE VICINITY OF FIFTH AVENUE TO THE VICINITY OF SEVENTH AVENUE (STATION 270+83.50 TO STATION 279+59.50), 6 SPANS VARYING FROM 99'-2 1/2" TO 237'-25 8/8".
2. ON-RAMP FROM SEVENTH AVENUE FROM THE VICINITY OF FIFTH AVENUE TO THE ABUTMENT NEAR SIXTH AVENUE (RAMP STATION 70+86.34 TO STATION 73+06.46), 3 SPANS VARYING FROM 87'-1" TO 102'-61 8/8".
3. OFF-RAMP TO SEVENTH AVENUE FROM THE VICINITY OF FIFTH AVENUE TO THE ABUTMENT AT SIXTH AVENUE (RAMP STATION 70+85.32 TO STATION 73+40.15), 3 SPANS VARYING FROM 83'-11 1/4" TO 95'-73 8/8".

**BEGIN WORK** STATION 288 + 56.25  
**PROJECT I-74-1(51)0**  
**SECTION 81-1-2 BEGINS** STATION 270 + 83.50  
**PROJECT F-155(25) ENDS** STA. 38+87  
**PROJECT U-89(15) ENDS** STA. 336+35  
**SECTION 81-IHB BEGINS** STA. 217+70

**CAD CLASSIFICATION**

LA 1-74-2975(89)	TRUNK - 4.62 (PCC-20)
11th ST. - 1155(93)	AREA SERVICE - 5.50 (PCC-20)
12th AVE. - 2095(89)	AREA SERVICE - 5.50 (PCC-20)
13th AVE. - 2230(89)	AREA SERVICE - 5.50 (PCC-20)
14th AVE. - 1550(93)	AREA SERVICE - 5.50 (PCC-20)

**SECTION 81-IHB** INCLUDES THE CONSTRUCTION OF MULTI-SPAN WELDED STEEL STRUCTURES ON CIRCULAR STEEL COLUMNS AND REINFORCED CONCRETE ABUTMENTS CARRYING F.A.I. ROUTE 74 AND RAMPS OVER RELOCATED 19TH STREET IN MOLINE, ILLINOIS.

1. RAMP S-7, 6 SPANS (56'-0", 81'-6", 80'-3 1/16", 80'-33 1/16", 85'-46 1/16", 63'-0").
2. NORTHBOUND F.A.I. ROUTE 74, 7 SPANS (88'-0", 91'-47 8/8", 86'-113 8/8", 83'-8", 75'-0", 76'-113 4/8", 60'-01 8/8").
3. SOUTHBOUND F.A.I. ROUTE 74, 6 SPANS (75'-0", 103'-9", 88'-31 3/8", 87'-71 2/8", 91'-113 8/8", 71'-111 1/8").
4. RAMP S-5, 6 SPANS (120'-10", 131'-41 2", 126'-71 8/8", 107'-0", 95'-53 8/8", 80'-0").

**SECTION 81-IHB-1** INCLUDES THE CONSTRUCTION OF A SINGLE 98' LONG SPAN WELDED GIRDER BRIDGE ON CONCRETE ABUTMENTS CARRYING F.A.I. ROUTE 74 OVER TWELFTH AVENUE IN MOLINE, ILLINOIS.

**DE LEUW, CATHER & COMPANY**  
 CHICAGO ILLINOIS  
 ENGINEERS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED 1-18-73  
 EXAMINED April 25 1973  
 PASSED  
 APPROVED April 25 1973

DISTRICT ENGINEER  
 ENGINEER OF PLANS AND CONTRACTS  
 ENGINEER OF DESIGN  
 ACTING CHIEF TRANS. ENGINEER

APPROVED

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED  
 Jay W. Miller  
 DATE 5/11/73

NET LENGTH OF PROJ. I-74-1(51)0 = 3,716.50 Ft. = 0.704 Mile  
 NET LENGTH OF PROJ. U-89(15) = 2,065.00 Ft. = 0.391 Mile  
 NET LENGTH OF PROJ. F-155(25) = 482.00 Ft. = 0.091 Mile

MANAGING AGENT  
 STRUCTURAL ENGINEERING

CONTRACT NO. 29402

FED. AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	81-1-2	ROCK ISLAND	389	2
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

**GENERAL NOTES**

ENTIRE SECTION INSPECTED & APPROVED AS TO POLICY  
DATE \_\_\_\_\_  
DISTRICT ENGINEER \_\_\_\_\_

THE COST OF REMOVING AND DISPOSING OF EXISTING UTILITIES, SHOWN ON THE PLANS TO BE REMOVED, SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.

THE CONTRACTOR SHALL COOPERATE WITH VILLAGE OR CITY IN ANY UNDERGROUND CONSTRUCTION WHICH THE VILLAGE OR CITY MAY WISH TO PLACE BEFORE THE PROJECT IS COMPLETED.

THE ENDS OF EXISTING LINES WHICH ARE NOT TO BE INCORPORATED INTO THE PROPOSED IMPROVEMENT ARE TO BE SEALED. COST OF SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE COST OF REMOVAL OF EXISTING CONCRETE HEADWALLS, PIPES OR OTHER OBSTRUCTIONS WHICH INTERFERE WITH THE PROPOSED ROADWAY CONSTRUCTION AND WHICH ARE NOT TO BE REMOVED AS A SEPARATE PAY ITEM WILL BE CONSIDERED AS INCIDENTAL TO THE COST OF SPECIAL EXCAVATION.

INSTALL CONSTRUCTION JOINTS IN PAVEMENT AT 100-FOOT CENTERS.

IT IS ASSUMED THAT EACH PROPERTY HAS TWO VALVE BOXES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE VALVE BOXES AND PRESERVE THEM FROM DAMAGE. ANY VALVE BOXES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT HIS OWN EXPENSE. THE COST OF ADJUSTING VALVE BOXES VERTICALLY IS INCIDENTAL TO THE CONTRACT.

ADDED EXPENSE WHICH WILL BE INVOLVED IN CONNECTING EXISTING DRAIN TILE, STORM SEWER OR PIPE CULVERTS TO PROPOSED DRAINAGE STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE INVOLVED.

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL HOUSES, SHEDS, BUILDINGS OR OTHER STRUCTURES WITHIN THE RIGHT OF WAY UNLESS THEY ARE SPECIFICALLY NOTED TO BE SAVED OR REMOVED BY OTHERS. STRUCTURES SO REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL NOT BE PAID FOR AS A CONTRACT ITEM AS THE SALVAGE VALUE OF THE BUILDINGS SHALL BE CONSIDERED PAYMENT IN FULL FOR THE WORK PERFORMED. THIS WORK SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ANY PORTION OF A BUILDING OR ITS FOUNDATION THAT MAY EXTEND OUTSIDE THE RIGHT OF WAY AND BACKFILLING, LANDSCAPING AND SEEDING REGARDLESS OF ITS LOCATION.

THE COST OF REMOVING HOUSE FOUNDATIONS OR PORTIONS THEREOF, ANY WALLS, STEPS, PUMP FOUNDATIONS AND THE LIKE WHICH WERE A PART OF A RESIDENCE OR BUSINESS ESTABLISHMENT ORIGINALLY LOCATED ON THE NEW RIGHT OF WAY AND WHICH HAVE NOT BEEN ACCOUNTED FOR AS A PAY ITEM ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.

UNDERGROUND GASOLINE TANKS OR SEPTIC TANKS WITHIN THE LIMITS OF THE RIGHT OF WAY WHICH HAVE NOT BEEN REMOVED AND WILL NOT INTERFERE WITH CONSTRUCTION SHALL BE FILLED WITH FREE FLOWING SAND AT THE DIRECTION OF THE ENGINEER. COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS PROJECT.

ALL AREAS OF SEEDING SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 OF THE STANDARD SPECIFICATIONS AND SHALL INCLUDE FERTILIZER NUTRIENTS AT THE RATE OF 200 POUNDS PER ACRE. IN ADDITION, THE AREAS OF SEEDING SHALL BE MULCHED AS SPECIFIED.

SPECIAL CARE SHALL BE TAKEN WHEN EXCAVATING NEAR UNDERGROUND UTILITIES TO PREVENT UNNECESSARY DAMAGE. SPECIAL CARE SHALL BE TAKEN WHEN EXCAVATING NEAR TREES AND SHRUBS TO BE SAVED, TO AVOID DAMAGE TO TRUNKS OR ROOTS.

NO PAYMENT WILL BE MADE FOR OVERHAUL FROM ANY SOURCE.

ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE PLOTTED FROM LOCATION DRAWINGS FURNISHED BY THE UTILITY COMPANIES. THESE UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY, AND NO GUARANTEE AS TO THEIR COMPLETENESS OR ACCURACY IS IMPLIED.

ALL WORK INVOLVING A PRIVATE UTILITY, SUCH AS RELOCATION, REMOVAL, ABANDONING, ETC., WILL BE PERFORMED BY THE UTILITY COMPANY INVOLVED.

THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL UTILITIES AND SHALL EXERCISE EVERY PRECAUTION NECESSARY TO PREVENT ANY DAMAGE THERETO. THE COST OF THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

TWO (2) SIGNS BUILT IN ACCORDANCE WITH STANDARD 2153 SHALL BE ERECTED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL RELOCATE ALL EXISTING TRAFFIC SIGNS, STREET SIGNS AND MAIL BOXES WITHIN THE PROJECT LIMITS, AT THE TIME AND MANNER DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO STAGE HIS CONSTRUCTION OPERATIONS IN SUCH A MANNER TO PROVIDE FOR TRAFFIC MAINTENANCE AS PRESCRIBED AND TO PROVIDE ALL NECESSARY FLAGMEN, WARNING SIGNS, LIGHTS, BARRICADES, ETC., AS REQUIRED BY THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS, TO PROVIDE FOR THE SAFETY AND CONVENIENCE OF PUBLIC TRAVEL, AND MINIMUM OF INCONVENIENCE AND DISRUPTION OF ACCESS TO PRIVATE AND COMMERCIAL PROPERTIES WITHIN THE PROJECT LIMITS.

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR MAINTENANCE OF TRAFFIC ON THIS PROJECT SHALL BE CONSIDERED TO BE INCIDENTAL TO THE CONTRACT.

STANDARDS WITH THE REVISION NUMBER LISTED IN THE INDEX OF SHEETS SHALL APPLY TO THIS PROJECT.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

The following items have been estimated for the entire section:

Nitrogen Fertilizer Nutrients	1729 Lbs.
Phosphorous Fertilizer Nutrients	3794 Lbs.
Potassium Fertilizer Nutrients	1429 Lbs.
Asphalt Coated Mulch	59.7 Tons (3 TONS PER ACRE)
Emulsified Asphalt	5,970 Gals. (100 GALS. PER TON OF MULCH)

Seeding Class I - Unless otherwise specified by the engineer, the rate of application of actual fertilizer nutrients per acre of seeding Class I shall be:

Nitrogen Fertilizer Nutrients	100 Lbs.
Phosphorus Fertilizer Nutrients	200 Lbs.
Potassium Fertilizer Nutrients	60 Lbs.

Seeding Class III - Unless otherwise specified by the engineer, the rate of application of actual fertilizer nutrients per acre of seeding Class III shall be:

Nitrogen Fertilizer Nutrients	15 Lbs.
Phosphorus Fertilizer Nutrients	90 Lbs.
Potassium Fertilizer Nutrients	90 Lbs.

Contractor shall construct the noses of medians in a monolithic manner for a distance of 5' beyond the radius point when such points are 3' or less measured to the face of the curb. Cost to be incidental to curb and gutter.

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11-14	Schedule of Quantities
15-17	Drainage Schedule
20-23	Staging Details
24-32	Alignment and Ties
33-40	Existing Conditions
* 41-57	Plan and Profile
58-69 (68 deleted)	Pavement Details
70-72, 72A thru G	Construction Details
75-76	Approach Slabs
77-100, 100A, B & C	Traffic Control
101-124	Traffic Signal
125-144, 144 A thru G	Lighting
145-147	Fencing Details
148-212	Section 81-IHVB-1
213-254	Section 81-IHB
(INCLUDES 270A) 255-276	Section 81-IHB-1
(INCLUDES 282A & 291A) 277-292	Retaining Wall S-7, 7-S. 18th Street & Starjust
293-295	Details of Impact Attenuation Device
296-298	Deleted
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1744-2	Right of Way Markers
1766-7	Longitudinal Metal Joint
2115-3	Pavement Fabric, Type A and Type B
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2135	Permanent Survey Markers
2138-8	Bridge Approaches for FAI Routes
2153-9	Sign for Interstate System Project
2163-5	Chain Link Fence
2179-5	24' P. C. C. Pavement
2213-3	Frame and Lid Type 1
2224-9	24' Continuously Reinforced P. C. C. Pavement
2225-3	Reinforcement for Continuously Reinforced P. C. C. Pavement
2227-1	Continuously Reinforced Concrete Medians, & Curbs & Gutters
2228-2	Metal End Section For Pipe Culverts
2230-7	Steel Plate Beam Guardrail
2233-6	36' Continuously Reinforced P. C. C. Pavement (BAM Pad)
2237-7	Shoulder Details (P. C. C. Pav't.)
2240-2	Flush Inlet Box for Median
2253-4	Median Guard Rail at Structure for Dual Highway
2261-4	24' Continuously Reinforced PCC Pavement (R.P.C.C. Pad)
2262-1	Reinforced Concrete Pipe Elbow and Precast Reinforced Concrete Flared End Section
2293-3	Typical Application of Traffic Control Devices
2299-4	Design of Traffic Control Devices
2300	Flagman Traffic Control Sign
2321-4	36' Continuously Reinforced PCC Pavement (R.P.C.C. Pad)
(2 sheets) 2326	Guard Rail Connected To Existing Bridges
2113-1	Name Plate
2130-3	Concrete Curb & Combination Concrete Curb & Gutter
2323	Pavement Joints
2333	Concrete Barrier

\* INCLUDES SHEET 216A

\* INCLUDES SHEETS 43A, 58A, 1

**SYMBOLS**

----->	EXISTING CULVERT
HH 6" W HH	EXISTING WATER LINE
HH 4" G HH	EXISTING GAS LINE
-----	EXISTING I.B.T. LINE
15" S.S.	EXISTING STORM SEWER
10" SAN. S.	EXISTING SANITARY SEWER
215" SST-2	PROPOSED STORM SEWER
W-W	PROPOSED WATER LINE
52" 24" PT-1 RCCP	PROPOSED CULVERT
□	PROPOSED OUTLET OR INLET BOX
○ R	EXISTING CATCH BASIN TO BE RECONSTRUCTED
○ A	EXISTING CATCH BASIN TO BE ADJUSTED
○ REM	EXISTING CATCH BASIN TO BE REMOVED
→	FLOW LINE
65	DRAINAGE STRUCTURE NUMBER
=====	STEEL PLATE BEAM GUARD
=====	CORRUGATED CONCRETE MEDIAN
-----	R.O.W. LINE
A-C	A.C. LINE
680.02	ELEV. OF PAV'T. AT DEC. POINT
680.52 T.C.	ELEV. OF TOP OF CURB AT DEC. POINT
+	TRAFFIC SIGNAL
-----)	END SECTION OR HEADWALL

**ABBREVIATIONS**

S.E.	SUPERELEVATION
DES.	DESIRABLE
P.G.	PROFILE GRADE
N/W	NAIL & WASHER
INV.	INVERT
FL.MED.INL.	FLUSH MEDIAN INLET
C.B.-SPCL.	CATCH BASIN, SPECIAL
GR.	GRATE
O.L.	OPEN LID
N.C.P.	NOSE CONTROL POINT
STD. STR.	STANDARD STRENGTH
X STR.	EXTRA STRENGTH
PPOP.	PROPOSED
D.I.	DUCTILE IRON
TRANS.	TRANSITION
P.L.	PRESSURE LID

**GENERAL NOTES  
INDEX OF SHEETS  
SYMBOLS & ABBREVIATIONS**

REV. 11-7-73

Rev. 5-10-73  
Rev. 5-22-73

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1-2	ROCK ISLAND	389	148
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

TOTAL BILL OF MATERIAL  
(SECTION 81-IHVB-1 ONLY)

ITEM	UNIT	QUANTITY		
		SUPER-STRUCTURE	SUB-STRUCTURE	TOTAL
STRUCTURE EXCAVATION	CU. YD.	-	3,769	3,769
PROTECTIVE COAT	SQ. YD.	2,122	53	2,175
CLASS "X" CONCRETE	CU. YD.	3,524.6	1,914.0	5,438.6
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	-	-	1
STUD SHEAR CONNECTORS	EACH	21,061	-	21,061
ALUMINUM RAILING	LIN. FT.	3,253	135	3,388
REINFORCEMENT BARS	POUND	911,424	293,812	1,205,236
FURNISHING STEEL PILES, 8BP36	LIN. FT.	-	3,271	3,271
FURNISHING STEEL PILES, 10BP42	LIN. FT.	-	398	398
FURNISHING STEEL PILES, 10BP57	LIN. FT.	-	2,145	2,145
DRIVING STEEL PILES	LIN. FT.	-	5,814	5,814
TEST PILE, 8BP36	EACH	-	11	11
TEST PILE, 10BP42	EACH	-	3	3
TEST PILE, 10BP57	EACH	-	2	2
NAME PLATES	EACH	-	2	2
SAND BACKFILL	CU. YD.	-	251	251
PREFORMED JOINT SEALER 2 1/2	LIN. FT.	63	-	63
PREFORMED MODULAR EXPANSION JOINT, 4"	LIN. FT.	79	-	79
BRIDGE DRAINAGE SYSTEM, VIADUCT	L. SUM	1	-	1
STRINGER EXPANSION BEARINGS	EACH	44	-	44
PIER BEARINGS, TYPE F-448	EACH	1	-	1
PIER BEARINGS, TYPE F-560	EACH	1	-	1
IMPACT ATTENUATION DEVICE, 8 BAYS, NARROW WIDTH	EACH	1	-	1
BRIDGE SEAT SEALER (APPLIED AT ABUTMENT C)	L. SUM	-	-	1
PIER BEARINGS, TYPE F-896	EACH	2	-	2
PIER BEARINGS, TYPE F-1325	EACH	2	-	2
PIER BEARINGS, TYPE E-314	EACH	1	-	1
PIER BEARINGS, TYPE E-448	EACH	7	-	7
PIER BEARINGS, TYPE E-560	EACH	4	-	4
PIER BEARINGS, TYPE E-784	EACH	2	-	2
PIER BEARINGS, TYPE E-1008	EACH	2	-	2
PIER BEARINGS, TYPE E-1205	EACH	2	-	2
PIER BEARINGS, TYPE E-1325	EACH	1	-	1
PIER BEARINGS, TYPE E-1440	EACH	3	-	3
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	12,166	137	12,303
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	1,026	11	1,037
IMPACT ATTENUATION DEVICE, 9 BAYS, WIDE WIDTH	EACH	1	-	1

**NOTE:** THE FOLLOWING ITEMS ARE INCLUDED IN QUANTITIES FOR SECTION 81-1-2:

APPROACH PILES AND APPROACH SLABS AT ABUTMENTS "F", "G" AND "C". SECTION 81-IHVB-1: SLOPE WALLS AT 6TH AVENUE AND ABUTMENTS "F" AND "G". SECTION 81-IHVB-1: APPROACH SLABS FOR ABUTMENTS "J", "K" AND "L". SECTION 81-IHB: APPROACH PILES AND APPROACH SLABS FOR ABUTMENTS "H", "M" AND "N", SECTION 81-IHB; ALL SLOPE WALLS FOR SECTION 81-IHB.

STRUCTURAL GENERAL NOTES  
FOR SECTIONS 81-1-2, 81-IHVB-1, 81-IHB AND 81-IHB-1

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS EXISTING IN THE FIELD BEFORE ORDERING OF MATERIAL.

DESIGN LOADING: HS 20-44 AND ALTERNATE.

DESIGN STRESSES:

CAST-IN-PLACE CONCRETE:  $f'_c = 3,500$  P.S.I. - ULTIMATE STRENGTH IN 14 DAYS, EXCEPT  $f'_c = 4,000$  P.S.I. FOR PIERS 24 & 25, SECTION 81-IHB-1, AS NOTED ON DRAWINGS.

$f_c = 1,200$  P.S.I. - WORKING STRENGTH IN DECK SLABS.

$f_c = 1,400$  P.S.I. - WORKING STRENGTH EXCEPT IN DECK SLABS AND CLOSED ABUTMENTS.

$f_c = 1,000$  P.S.I. - WORKING STRENGTH IN CLOSED ABUTMENTS.

$f_v = 75$  P.S.I. - MAXIMUM SHEAR IN FOOTINGS.

REINFORCING STEEL:  $f_s = 20,000$  P.S.I.

STRUCTURAL STEEL:  $f_s = 20,000$  P.S.I.

ALL REINFORCING BARS SHALL BE LAPPED 24 DIAMETERS AT SPLICES UNLESS OTHERWISE SHOWN.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A-36, UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS.

\* FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS SHALL BE 3/4-INCH DIAMETER, OPEN HOLES 13/16-INCH DIAMETER; EXCEPT THAT AT ALL BEAM AND GIRDER SPLICES, AND WHERE OTHERWISE INDICATED ON THE PLANS, HIGH STRENGTH BOLTS SHALL BE 7/8-INCH DIAMETER, OPEN HOLES 15/16-INCH DIAMETER.

DIAPHRAGM CONNECTIONS MAY BE ADAPTED TO SHOP WELDING, SUBJECT TO APPROVAL OF THE ENGINEER.

THE BASIC LEAD SILICON CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL. *No field paint req'd on interior of box section cross girders.* FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED IN THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR ON THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER OR CALLED FOR ON THE PLANS.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OR CROSS FRAMES OVER ABUTMENTS.

SLIDING PLATE AND FINGER PLATE EXPANSION DEVICES SHALL BE ASSEMBLED IN THE PROPER POSITION WITH THE ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

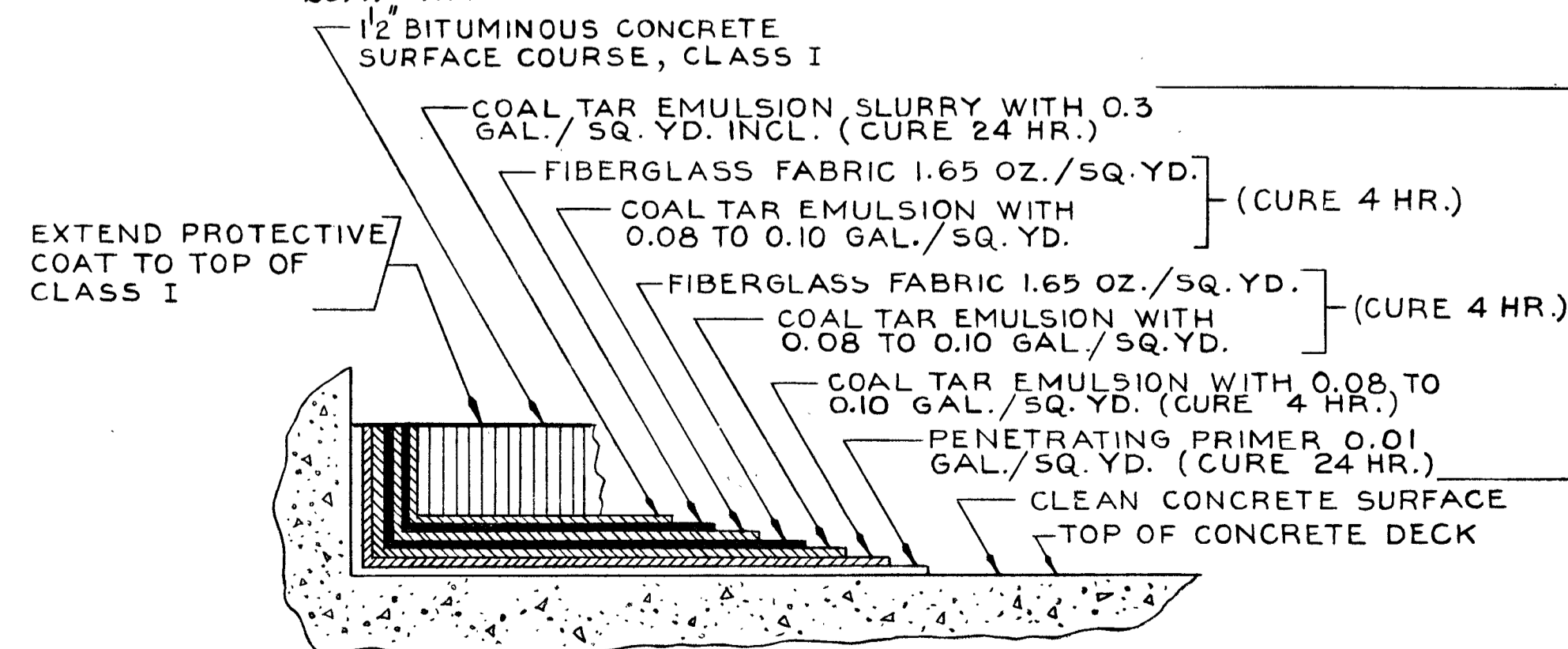
ALL CONCRETE SHALL BE CLASS "X", EXCEPT FOR CONCRETE PLACED INSIDE STEEL COLUMNS FOR SECTION 81-IHB, AS NOTED ON DRAWING NOS. S-196, S-197 AND S-198.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS "X" CONCRETE, EXCEPT THAT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

QUANTITIES BILLED ON INDIVIDUAL DRAWINGS AS "CLASS 'A' EXCAVATION FOR STRUCTURES" SHALL BE PAID FOR AS "STRUCTURE EXCAVATION".

THE CONTRACTOR SHALL DRIVE TEST PILES IN PERMANENT LOCATIONS AT THE ABUTMENTS, PIERS, AND WALLS INDICATED BELOW, AND AS DIRECTED BY THE ENGINEER, BEFORE ORDERING THE REMAINDER OF PILES:

\* 1/8 inch oversize holes may be used at bolted girder field splices, in lieu of 1/4 inch oversize, provided the Contractor provides a hardened washer under both the bolt head and nut.



DECK SURFACING

SECTION 81-IHVB-1 - MOLINE VIADUCT

- 1 STEEL TEST PILE (10BP42) EACH AT PIERS 21(NB), 21(SB), AND 22(N7);
- 1 STEEL TEST PILE (8BP36) EACH AT PIERS 21(7N), 21(N7), 22(7N), 22(NB), 22(SB), 23(NB) AND 23(SB);
- 2 STEEL TEST PILES (8BP36) EACH AT ABUTMENTS "F" AND "G".
- 1 STEEL TEST PILE (10BP57) EACH AT PIERS 24(NB) AND 25(NB).

SECTION 81-1-2 - RETAINING WALLS

- 3 TIMBER TEST PILES ALONG THE 18TH STREET WALL.
- 2 TIMBER TEST PILES ALONG RETAINING WALL S-7.
- 5 TIMBER TEST PILES ALONG RETAINING WALL 7-S.

SECTION 81-IHB - 19TH STREET BRIDGES

- 1 TIMBER TEST PILE EACH AT WINGWALLS FOR ABUTMENTS "J", "K" AND "L".
- 2 STEEL TEST PILES (10BP42) EACH AT ABUTMENTS "M" AND "N".
- 1 STEEL TEST PILE (10BP42) EACH AT ABUTMENTS "H", "J", "K" AND "L".
- 1 STEEL TEST PILE (10BP42) AT EACH PIER - NOS. 26 THROUGH 46.

SECTION 81-IHB-1 - 12TH AVENUE BRIDGES

- 1 CONCRETE TEST PILE EACH AT THE NORTHEAST, SOUTHWEST AND SOUTHEAST ABUTMENTS.
- 1 TIMBER TEST PILE EACH AT THE NORTHWEST ABUTMENT, THE SOUTH RETAINING WALL AND PANEL 7 OF THE NORTHEAST RETAINING WALL.

THE EMBANKMENT CONFIGURATION INDICATED ON EARTHWORK CROSS SECTIONS SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

THE CONTRACTOR SHALL PLACE A PERMANENT BENCHMARK, TYPE I, ON EACH BRIDGE, AS DIRECTED BY THE ENGINEER. ONE SIGN CONFORMING TO STANDARD NO. 2153-6 SHALL BE ERECTED AS DIRECTED BY THE ENGINEER.

BACKFILL SHALL BE PLACED BEHIND ALL ABUTMENTS IN SECTION 81-IHVB-1 AND ABUTMENT C IN SECTION 81-IHVB-1 AFTER THE SUPERSTRUCTURE HAS BEEN POURED AND THE FALSEWORK REMOVED. SEE ARTICLE 502.11 OF THE STANDARD SPECIFICATIONS.

ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFER, EXCEPT AS NOTED.

IN THIS SET OF CONTRACT PLANS, STRUCTURAL DRAWING NUMBERS S-4, S-5, S-9, S-10 AND S-11 ARE DUPLICATED AND APPEAR BOTH IN SECTION 81-IHVB-1 (MOLINE VIADUCT) AND SECTION 81-IHB-1 (12TH AVENUE). THE PLANS FOR THESE TWO SECTIONS ARE INDEPENDENT AND NOT CROSSREFERENCED TO EACH OTHER.

CALCULATED WEIGHT OF STRUCTURAL STEEL:

SECTION 81-IHVB-1	=	4,637,895 LBS.
SECTION 81-IHB	=	3,258,390 LBS.
SECTION 81-IHB-1	=	360,859 LBS.
TOTAL:		8,257,144 LBS.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH COAL TAR INTERLAYER PROTECTIVE COAT IS APPLIED.

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF ± 1/8". ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

Place Rumble Strips in locations where corrugated medians are shown on the plans on top of the Class I Surface Course.

TO BE PAID FOR AS: COAL TAR INTERLAYER PROTECTIVE COAT.

STRUCTURAL GENERAL NOTES  
AND  
TOTAL BILL OF MATERIAL

F.A.I. 74-SECTION 81-1-2, 81-IHVB-1,  
81-IHB AND 81-IHB-1

ROCK ISLAND COUNTY

SCALE: — DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. S. MARTINS  
DRAWN BY H. D. P. & M. V.  
CHECKED BY  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 174	81	ROCK ISLAND	62	62
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 174		

TOTAL BILL OF MATERIAL - SECTION 81-IHVB

ITEM	UNIT	QUANTITY		
		SUPER-STRUCTURE	SUB-STRUCTURE	TOTAL
REMOVAL OF EXISTING STRUCTURES	Each	-	-	2
STRUCTURE EXCAVATION	CU. YD.	-	11,603	11,603
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	-	263	263
PROTECTIVE COAT	SQ. YD.	3,445	22	3,467
CLASS "X" CONCRETE	CU. YD.	6,358.0	5,790.4	12,148.4
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	1	-	1
STUD SHEAR CONNECTORS	EACH	39,846	-	39,846
ALUMINUM RAILING	LIN. FT.	7,357	47	7,404
REINFORCEMENT BARS	POUND	1,778,406	871,983	2,650,389
FURNISHING STEEL PILES, HP 8 x 36	LIN. FT.	-	4,761	4,761
FURNISHING STEEL PILES, HP 10 x 42	LIN. FT.	-	1,170	1,170
FURNISHING STEEL PILES, HP 10 x 57	LIN. FT.	-	408	408
DRIVING STEEL PILES	LIN. FT.	-	6,339	6,339
TEST PILE, STEEL, HP 8 x 36	EACH	-	17	17
TEST PILE, STEEL, HP 10 x 42	EACH	-	5	5
TEST PILE, STEEL, HP 10 x 57	EACH	-	2	2
NAME PLATES	EACH	2	-	2
PREFORMED JOINT SEALER	LIN. FT.	154	-	154
BRIDGE DRAINAGE SYSTEM - VIADUCT	L. SUM	-	-	1
STRINGER EXPANSION BEARINGS	EACH	117	-	117
PIER BEARINGS, TYPE F-448	EACH	6	-	6
PIER BEARINGS, TYPE F-560	EACH	4	-	4
PIER BEARINGS, TYPE F-672	EACH	4	-	4
PIER BEARINGS, TYPE F-784	EACH	3	-	3
PIER BEARINGS, TYPE F-896	EACH	2	-	2
PIER BEARINGS, TYPE F-1008	EACH	2	-	2
PIER BEARINGS, TYPE E-448	EACH	17	-	17
PIER BEARINGS, TYPE E-560	EACH	10	-	10
PIER BEARINGS, TYPE E-672	EACH	17	-	17
PIER BEARINGS, TYPE E-784	EACH	17	-	17
PIER BEARINGS, TYPE E-896	EACH	14	-	14
PIER BEARINGS, TYPE E-1008	EACH	4	-	4
PIER BEARINGS, TYPE E-1120	EACH	1	-	1
BRIDGE SEAT SEALER (APPLIED AT PIER L AND ABUTMENT E)	L. SUM	-	-	1
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	21,103	-	21,103
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	1,719	-	1,719

NOTE: THE FOLLOWING ITEMS ARE INCLUDED IN QUANTITIES FOR SECTION 81-I-1:

APPROACH PILES AND APPROACH SLABS FOR ABUTMENT "D".  
APPROACH SLAB AND SLOPE WALL FOR ABUTMENT "E".

SPECIAL NOTE:  
ALL PROFILE GRADE ELEVATIONS AND VERTICAL CURVE DATA GIVEN THROUGHOUT THE STRUCTURAL PLANS REFER TO TOP OF CONCRETE AND DO NOT INCLUDE THE 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. D. K.  
DRAWN BY J. D. P.  
CHECKED E. S. M.  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

POOR QUALITY

STRUCTURAL GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, ADOPTED JANUARY 2, 1971.

STRUCTURES

DESIGN SPECIFICATIONS: AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 10TH EDITION, DATED 1969 AND THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

DESIGN LOADING: HS 20-44 AND ALTERNATE.  
DESIGN STRESSES:

CAST-IN-PLACE CONCRETE:  $f'_c = 3,500$  P.S.I. - ULTIMATE STRENGTH IN 28 DAYS.  
 $f_c = 1,200$  P.S.I. - WORKING STRENGTH IN DECK SLABS.  
 $f_c = 1,400$  P.S.I. - WORKING STRENGTH EXCEPT IN DECK SLABS AND CLOSED ABUTMENTS.  
 $f_c = 1,000$  P.S.I. - WORKING STRENGTH IN CLOSED ABUTMENTS.  
 $f_v = 75$  P.S.I. - MAXIMUM SHEAR IN FOOTINGS.  
REINFORCING STEEL:  $f_s = 20,000$  P.S.I.  
STRUCTURAL STEEL:  $f_s = 20,000$  P.S.I.

ALL REINFORCING BARS SHALL BE LAPPED 24 DIAMETERS AT SPLICES UNLESS OTHERWISE SHOWN.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T. DESIGNATION A-36, UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS SHALL BE 3/4-INCH DIAMETER, OPEN HOLES 15/16-INCH DIAMETER; EXCEPT THAT AT ALL BEAM AND GIRDER SPLICES, AND WHERE OTHERWISE INDICATED ON THE PLANS, HIGH STRENGTH BOLTS SHALL BE 7/8-INCH DIAMETER, OPEN HOLES 15/16-INCH DIAMETER.

DIAPHRAGM CONNECTIONS MAY BE ADAPTED TO SHOP WELDING, SUBJECT TO APPROVED BY THE ENGINEER.

THE BASIC LEAD SILICON CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED IN THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR ON THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER OR CALLED FOR ON THE PLANS.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OR CROSS FRAMES OVER ABUTMENT SUPPORTS. SLIDING PLATE EXPANSION DEVICES SHALL BE ASSEMBLED IN THE PROPER POSITION WITH THE ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS "X" CONCRETE, EXCEPT THAT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

QUANTITIES BILLED ON INDIVIDUAL DRAWINGS AS "CLASS A EXCAVATION FOR STRUCTURES" SHALL BE PAID FOR AS "STRUCTURE EXCAVATION".

THE CONTRACTOR SHALL DRIVE TEST PILES IN PERMANENT LOCATIONS AT THE ABUTMENTS AND PIERS INDICATED BELOW, AND AS DIRECTED BY THE ENGINEER, BEFORE ORDERING THE REMAINDER OF PILES.

- 1 HP 8 x 36 TEST PILE EACH AT ABUTMENT "E" AND PIERS 1(NB), 1(SB), 12(3N), 13(3N), 12(SB), 12(NB), 13, 14(3N), 15(3N), 16(NB), 17(NB), 17(SB), 18(NB), 18(SB), 20(NB) AND 20(SB).
- 1 HP 10 x 57 TEST PILE EACH AT PIERS 14(NB) AND 14(SB).
- 1 HP 10 x 42 TEST PILE EACH AT PIER 16(SB).
- 1 HP 10 x 42 TEST PILES EACH AT PIERS 19(NB) AND 19(SB).

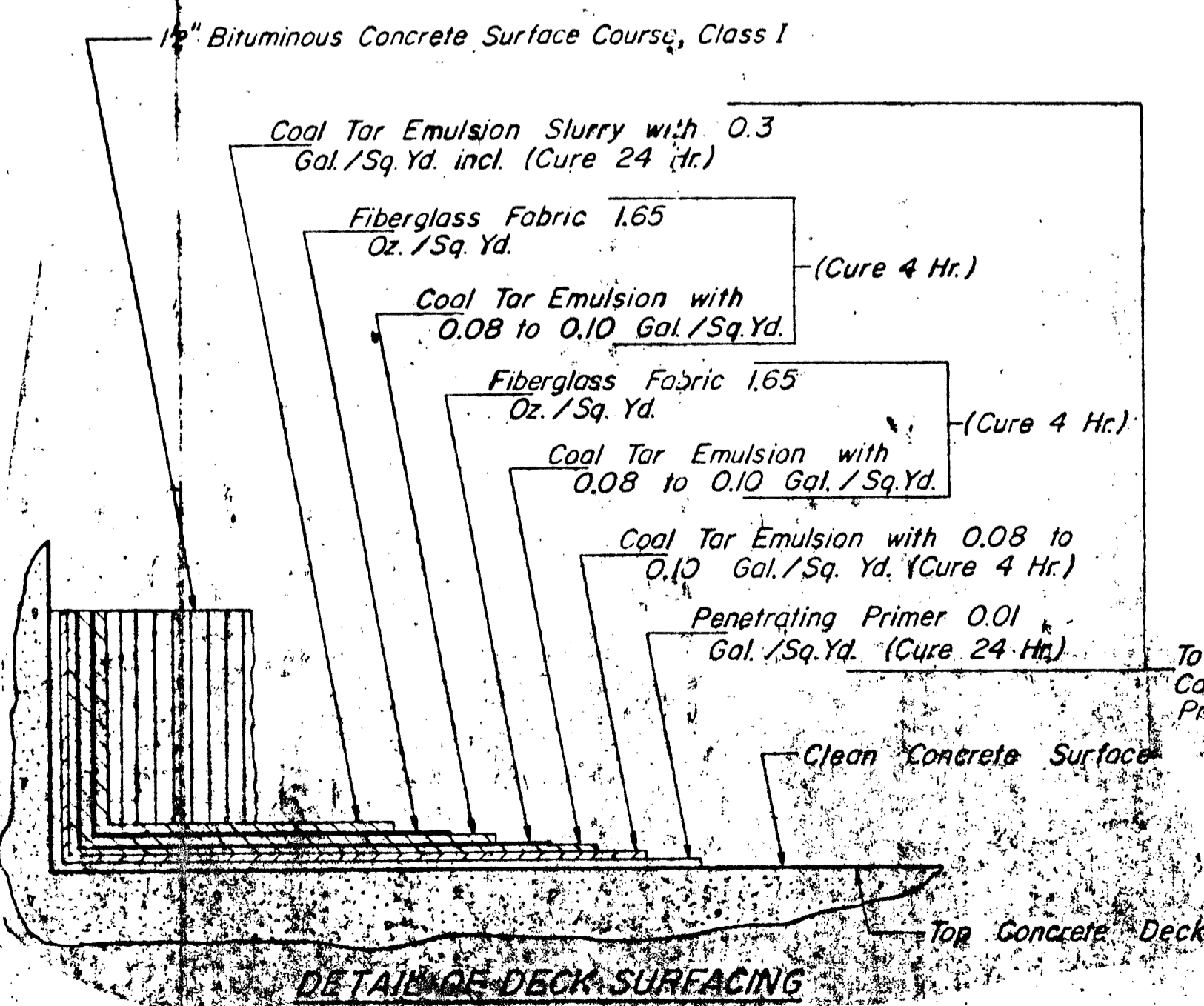
THE EMBANKMENT CONFIGURATION INDICATED ON EARTHWORK CROSS SECTIONS SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

THE CONTRACTOR SHALL PLACE A PERMANENT BENCHMARK, TYPE 1, ON EACH BRIDGE, AS DIRECTED BY THE ENGINEER.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 7,663,190 LBS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS EXISTING IN THE FIELD BEFORE ORDERING OF MATERIAL.

Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.



To be paid for as Coal Tar Interlayer Protective Coat

STRUCTURAL GENERAL NOTES AND TOTAL BILL OF MATERIAL  
F.A. 174 SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20  
SCALE AS NOTED DATE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	62-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

TOTAL BILL OF MATERIAL - SECTION 81-IHVB

ITEM	UNIT	QUANTITY		
		SUPER-STRUCTURE	SUB-STRUCTURE	TOTAL
REMOVAL OF EXISTING STRUCTURES	Each	-	-	2
STRUCTURE EXCAVATION	CU. YD.	-	11,603	11,603
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	-	263	263
PROTECTIVE COAT	SQ. YD.	3,445	22	3,467
CLASS "X" CONCRETE	CU. YD.	6,358.9	5,790.4	12,149.3
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	1	-	1
STUD SHEAR CONNECTORS	EACH	39,846	-	39,846
ALUMINUM RAILING	LIN. FT.	7,357	47	7,404
REINFORCEMENT BARS	POUND	1,778,409	871,983	2,650,392
FURNISHING STEEL PILES, HP 8 x 36	LIN. FT.	-	4,761	4,761
FURNISHING STEEL PILES, HP 10 x 42	LIN. FT.	-	1,170	1,170
FURNISHING STEEL PILES, HP 10 x 57	LIN. FT.	-	408	408
DRIVING STEEL PILES	LIN. FT.	-	6,339	6,339
TEST PILE, STEEL, HP 8 x 36	EACH	-	17	17
TEST PILE, STEEL, HP 10 x 42	EACH	-	5	5
TEST PILE, STEEL, HP 10 x 57	EACH	-	2	2
NAME PLATES	EACH	2	-	2
PREFORMED JOINT SEALER	LIN. FT.	154	-	154
BRIDGE DRAINAGE SYSTEM - VIADUCT	L. SUM	-	-	1
STRINGER EXPANSION BEARINGS	EACH	117	-	117
PIER BEARINGS, TYPE F-448	EACH	6	-	6
PIER BEARINGS, TYPE F-560	EACH	4	-	4
PIER BEARINGS, TYPE F-672	EACH	4	-	4
PIER BEARINGS, TYPE F-784	EACH	3	-	3
PIER BEARINGS, TYPE F-896	EACH	2	-	2
PIER BEARINGS, TYPE F-1008	EACH	2	-	2
PIER BEARINGS, TYPE E-448	EACH	17	-	17
PIER BEARINGS, TYPE E-560	EACH	10	-	10
PIER BEARINGS, TYPE E-672	EACH	17	-	17
PIER BEARINGS, TYPE E-784	EACH	17	-	17
PIER BEARINGS, TYPE E-896	EACH	14	-	14
PIER BEARINGS, TYPE E-1008	EACH	4	-	4
PIER BEARINGS, TYPE E-1120	EACH	1	-	1
BRIDGE SEAT SEALER (APPLIED AT PIER L AND ABUTMENT E)	L. SUM	-	-	1
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	21,103	-	21,103
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	1,719	-	1,719

**NOTE:** THE FOLLOWING ITEMS ARE INCLUDED IN QUANTITIES FOR SECTION 81-1-1:

APPROACH PILES AND APPROACH SLABS FOR ABUTMENT "D".  
APPROACH SLAB AND SLOPE WALL FOR ABUTMENT "E".

**SPECIAL NOTE**

ALL PROFILE GRADE ELEVATIONS AND VERTICAL CURVE DATA GIVEN THROUGHOUT THE STRUCTURAL PLANS REFER TO TOP OF CONCRETE AND DO NOT INCLUDE THE 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. D. K.  
DRAWN BY H. D. P.  
CHECKED E. S. M.  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

Rev. 7/28/72 Added 1,830 lbs. Structural Steel

**STRUCTURAL GENERAL NOTES**

**CONSTRUCTION SPECIFICATIONS**

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, ADOPTED JANUARY 2, 1971.

**STRUCTURES**

DESIGN SPECIFICATIONS: AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 10TH EDITION, DATED 1969 AND THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

DESIGN LOADING: HS 20-44 AND ALTERNATE.

**DESIGN STRESSES:**

CAST-IN-PLACE CONCRETE:  $f'_c = 3,500$  P.S.I. - ULTIMATE STRENGTH IN 14 DAYS.  
 $f_c = 1,200$  P.S.I. - WORKING STRENGTH IN DECK SLABS.  
 $f_c = 1,400$  P.S.I. - WORKING STRENGTH EXCEPT IN DECK SLABS AND CLOSED ABUTMENTS.  
 $f_c = 1,000$  P.S.I. - WORKING STRENGTH IN CLOSED ABUTMENTS.  
 $f_v = 75$  P.S.I. - MAXIMUM SHEAR IN FOOTINGS.  
REINFORCING STEEL:  $f_s = 20,000$  P.S.I.  
STRUCTURAL STEEL:  $f_s = 20,000$  P.S.I.

ALL REINFORCING BARS SHALL BE LAPPED 24 DIAMETERS AT SPLICES UNLESS OTHERWISE SHOWN.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A-36, UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS SHALL BE 3/4-INCH DIAMETER, OPEN HOLES 13/16-INCH DIAMETER; EXCEPT THAT AT ALL BEAM AND GIRDER SPLICES, AND WHERE OTHERWISE INDICATED ON THE PLANS, HIGH STRENGTH BOLTS SHALL BE 7/8-INCH DIAMETER, OPEN HOLES 15/16-INCH DIAMETER.

DIAPHRAGM CONNECTIONS MAY BE ADAPTED TO SHOP WELDING, SUBJECT TO APPROVED BY THE ENGINEER.

THE BASIC LEAD SILICON CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED IN THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR ON THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER OR CALLED FOR ON THE PLANS.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OR CROSS FRAMES OVER ABUTMENT SUPPORTS.

SLIDING PLATE EXPANSION DEVICES SHALL BE ASSEMBLED IN THE PROPER POSITION WITH THE ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS "X" CONCRETE, EXCEPT THAT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

QUANTITIES BILLED ON INDIVIDUAL DRAWINGS AS "CLASS A EXCAVATION FOR STRUCTURES" SHALL BE PAID FOR AS "STRUCTURE EXCAVATION".

THE CONTRACTOR SHALL DRIVE TEST PILES IN PERMANENT LOCATIONS AT THE ABUTMENTS AND PIERS INDICATED BELOW, AND AS DIRECTED BY THE ENGINEER, BEFORE ORDERING THE REMAINDER OF PILES:

- 1 HP 8 x 36 TEST PILE EACH AT ABUTMENT "E" AND PIERS 1(NB), 1(SB), 12(3N), 13(3N), 12(SB), 12(NB), 13, 14(3N), 15(3N), 16(NB), 17(NB), 17(SB), 18(NB), 18(SB), 20(NB) AND 20(SB).
- 1 HP 10 x 57 TEST PILE EACH AT PIERS 14(NB) AND 14(SB).
- 1 HP 10 x 42 TEST PILE EACH AT PIER 16(SB).
- 1 HP 10 x 42 TEST PILES EACH AT PIERS 19(NB) AND 19(SB).

THE EMBANKMENT CONFIGURATION INDICATED ON EARTHWORK CROSS SECTIONS SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

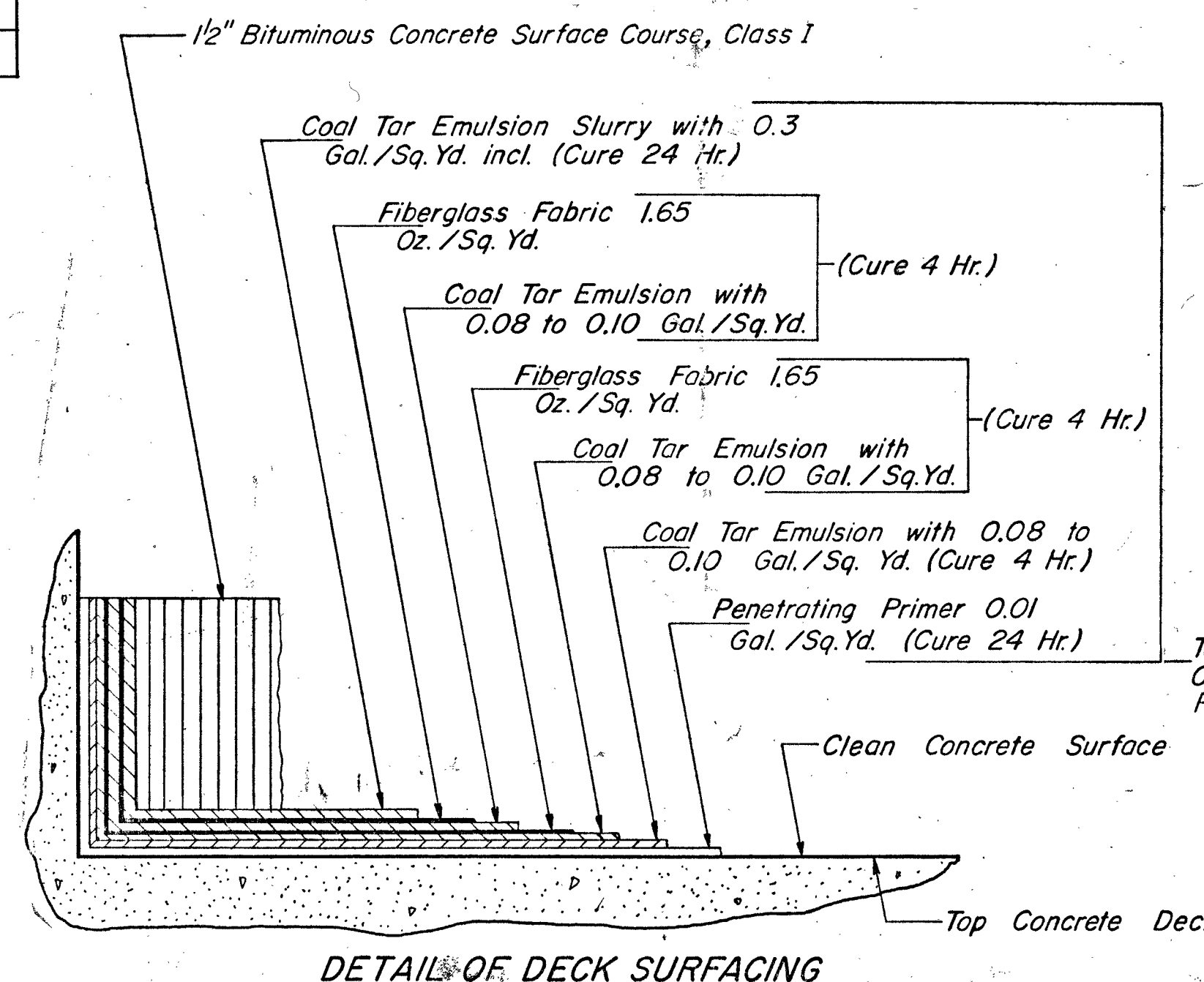
THE CONTRACTOR SHALL PLACE A PERMANENT BENCHMARK, TYPE I, ON EACH BRIDGE, AS DIRECTED BY THE ENGINEER.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 7,663,190 LBS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS EXISTING IN THE FIELD BEFORE ORDERING OF MATERIAL.

*Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.*

ADDITIONAL WEIGHT OF STRUCTURAL STEEL DUE TO PLAN REVISION = 1,830 LBS.



To be paid for as:  
Coal Tar Interlayer  
Protective Coat.

**STRUCTURAL GENERAL NOTES AND TOTAL BILL OF MATERIAL**  
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20

AS REVISED: JULY 28, 1972.

SCALE: AS NOTED

DATE:

TOTAL BILL OF MATERIAL - SECTION 81-1HYB

ITEM	UNIT	QUANTITY		
		SUPER-STRUCTURE	SUB-STRUCTURE	TOTAL
REMOVAL OF EXISTING STRUCTURES	Each	-	-	2
STRUCTURE EXCAVATION	CU. YD.	-	11,603	11,603
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	-	263	263
PROTECTIVE COAT	SQ. YD.	3,446	22	3,467
CLASS "X" CONCRETE	CU. YD.	6,360.7	5,790.4	12,151.1
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	1	-	1
STUD SHEAR CONNECTORS	EACH	39,846	-	39,846
ALUMINUM RAILING	LIN. FT.	7,352	47	7,399
REINFORCEMENT BARS	POUND	1,778,589	871,583	2,650,572
FURNISHING STEEL PILES, HP 8 x 36	LIN. FT.	-	4,761	4,761
FURNISHING STEEL PILES, HP 10 x 42	LIN. FT.	-	1,170	1,170
FURNISHING STEEL PILES, HP 10 x 57	LIN. FT.	-	408	408
DRIVING STEEL PILES	LIN. FT.	-	6,339	6,339
TEST PILE, STEEL, HP 8 x 36	EACH	-	17	17
TEST PILE, STEEL, HP 10 x 42	EACH	-	5	5
TEST PILE, STEEL, HP 10 x 57	EACH	-	2	2
NAME PLATES	EACH	2	-	2
PERFORMED JOINT SEALER	LIN. FT.	154	-	154
BRIDGE DRAINAGE SYSTEM - VIADUCT	L. SUM	-	-	1
STRINGER EXPANSION BEARINGS	EACH	117	-	117
PIER BEARINGS, TYPE F-448	EACH	6	-	6
PIER BEARINGS, TYPE F-550	EACH	4	-	4
PIER BEARINGS, TYPE F-672	EACH	4	-	4
PIER BEARINGS, TYPE F-784	EACH	3	-	3
PIER BEARINGS, TYPE F-896	EACH	2	-	2
PIER BEARINGS, TYPE F-1008	EACH	2	-	2
PIER BEARINGS, TYPE E-448	EACH	17	-	17
PIER BEARINGS, TYPE E-550	EACH	10	-	10
PIER BEARINGS, TYPE E-672	EACH	17	-	17
PIER BEARINGS, TYPE E-784	EACH	17	-	17
PIER BEARINGS, TYPE E-896	EACH	14	-	14
PIER BEARINGS, TYPE E-1008	EACH	4	-	4
PIER BEARINGS, TYPE E-1120	EACH	1	-	1
BRIDGE SEAT SEALER (APPLIED AT PIER L AND ABUTMENT E)	L. SUM	-	-	1
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	21,103	-	21,103
BITUMINOUS CONCRETE SURFACE COURSE, CLASS 1	TON	1,719	-	1,719

**NOTE:** THE FOLLOWING ITEMS ARE INCLUDED IN QUANTITIES FOR SECTION 81-1-1:

APPROACH PILES AND APPROACH SLABS FOR ABUTMENT "D".  
APPROACH SLAB AND SLOPE WALL FOR ABUTMENT "E".

**SPECIAL NOTE**

ALL PROFILE GRADE ELEVATIONS AND VERTICAL CURVE DATA GIVEN THROUGHOUT THE STRUCTURAL PLANS REFER TO TOP OF CONCRETE AND DO NOT INCLUDE THE 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE.

DE LITUM, CATHY & COMPANY ENGINEERS  
DESIGNED BY R. D. K.  
DRAWN BY W. D. P.  
CHECKED E. S. W.  
IN CHARGE E. S. WARTING  
APPROVED W. G. W. 2/24

Rev. 7/25/72 Added 1630 lbs. Structural Steel Rev. 2/5/73 Class X from 12,149.3 to 12,151.1 Cncls; Added 160 lbs Reinf. Bars; Subtracted 5 Lin. Ft. Railing - SM

**STRUCTURAL GENERAL NOTES**

**CONSTRUCTION SPECIFICATIONS**

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, ADOPTED JANUARY 2, 1971.

**STRUCTURES**

DESIGN SPECIFICATIONS: AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 10TH EDITION, DATED 1969 AND THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

DESIGN LOADING: HS 20-44 AND ALTERNATE.

**DESIGN STRESSES:**

CAST-IN-PLACE CONCRETE:  
 $f'_c = 3,500$  P.S.I. - ULTIMATE STRENGTH IN DAYS.  
 $f_c = 1,200$  P.S.I. - WORKING STRENGTH IN DECK SLABS.  
 $f_c = 1,400$  P.S.I. - WORKING STRENGTH EXCEPT IN DECK SLABS AND CLOSED ABUTMENTS.  
 $f_c = 1,000$  P.S.I. - WORKING STRENGTH IN CLOSED ABUTMENTS.  
 $f_v = 75$  P.S.I. - MAXIMUM SHEAR IN FOOTINGS.  
**REINFORCING STEEL:**  
 $f_s = 20,000$  P.S.I.  
**STRUCTURAL STEEL:**  
 $f_s = 20,000$  P.S.I.

ALL REINFORCING BARS SHALL BE LAPPED 24 DIAMETERS AT SPLICES UNLESS OTHERWISE SHOWN.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A-36, UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS SHALL BE 3/4-INCH DIAMETER, OPEN HOLES 13/16-INCH DIAMETER; EXCEPT THAT AT ALL BEAM AND GIRDER SPLICES, AND WHERE OTHERWISE INDICATED ON THE PLANS, HIGH STRENGTH BOLTS SHALL BE 7/8-INCH DIAMETER, OPEN HOLES 15/16-INCH DIAMETER.

DIAPHRAGM CONNECTIONS MAY BE ADAPTED TO SHOP WELDING, SUBJECT TO APPROVED BY THE ENGINEER. THE BASIC LEAD SILICON CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED IN THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR ON THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER OR CALLED FOR ON THE PLANS.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OR CROSS FRAMES OVER ABUTMENT SUPPORTS. SLIDING PLATE EXPANSION DEVICES SHALL BE ASSEMBLED IN THE PROPER POSITION WITH THE ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS "X" CONCRETE, EXCEPT THAT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

QUANTITIES BILLED ON INDIVIDUAL DRAWINGS AS "CLASS A EXCAVATION FOR STRUCTURES" SHALL BE PAID FOR AS "STRUCTURE EXCAVATION".

THE CONTRACTOR SHALL DRIVE TEST PILES IN PERMANENT LOCATIONS AT THE ABUTMENTS AND PIERS INDICATED BELOW, AND AS DIRECTED BY THE ENGINEER, BEFORE ORDERING THE REMAINDER OF PILES:

- 1 HP 8 x 36 TEST PILE EACH AT ABUTMENT "E" AND PIERS 11(NB), 11(SB), 12(NB), 12(SB), 12(SB), 13, 14(SB), 15(SB), 16(NB), 17(NB), 17(SB), 18(NB), 18(SB), 20(NB) AND 20(SB).
- 1 HP 10 x 57 TEST PILE EACH AT PIERS 14(NB) AND 14(SB).
- 1 HP 10 x 42 TEST PILE EACH AT PIER 16(SB).
- 1 HP 10 x 42 TEST PILES EACH AT PIERS 19(NB) AND 19(SB).

THE EMBANKMENT CONFIGURATION INDICATED ON EARTHWORK CROSS SECTIONS SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

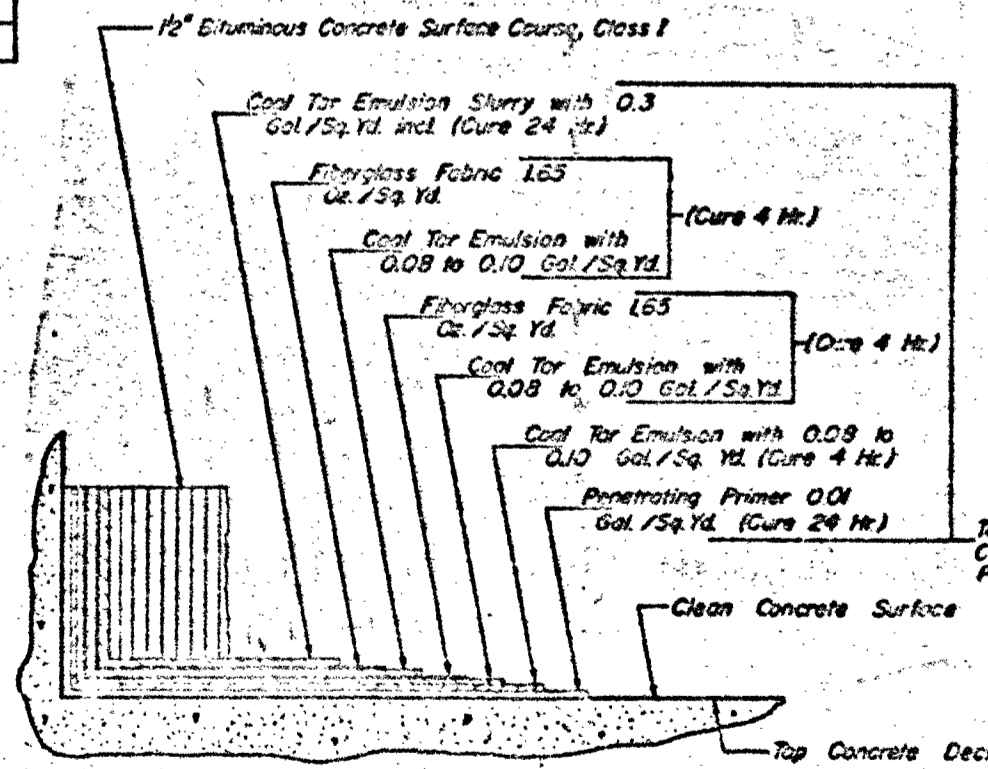
THE CONTRACTOR SHALL PLACE A PERMANENT BENCHMARK, TYPE 1, ON EACH BRIDGE, AS DIRECTED BY THE ENGINEER.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 7,663,190 LBS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS EXISTING IN THE FIELD BEFORE ORDERING OF MATERIAL.

Protective Coat shall not be applied to surfaces to which Cool Tar Interlayer Protective Coat is applied.

ADDITIONAL WEIGHT OF STRUCTURAL STEEL DUE TO PLAN REVISION = 1,830 LBS.



To be paid for as Cool Tar Interlayer Protective Coat.

AS REVISED  
FEB. 5, 1973

**STRUCTURAL GENERAL NOTES**  
AND  
**TOTAL BILL OF MATERIAL**  
RAILROAD SECTION 81-1HYB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20

SCALE AS NOTED DATE

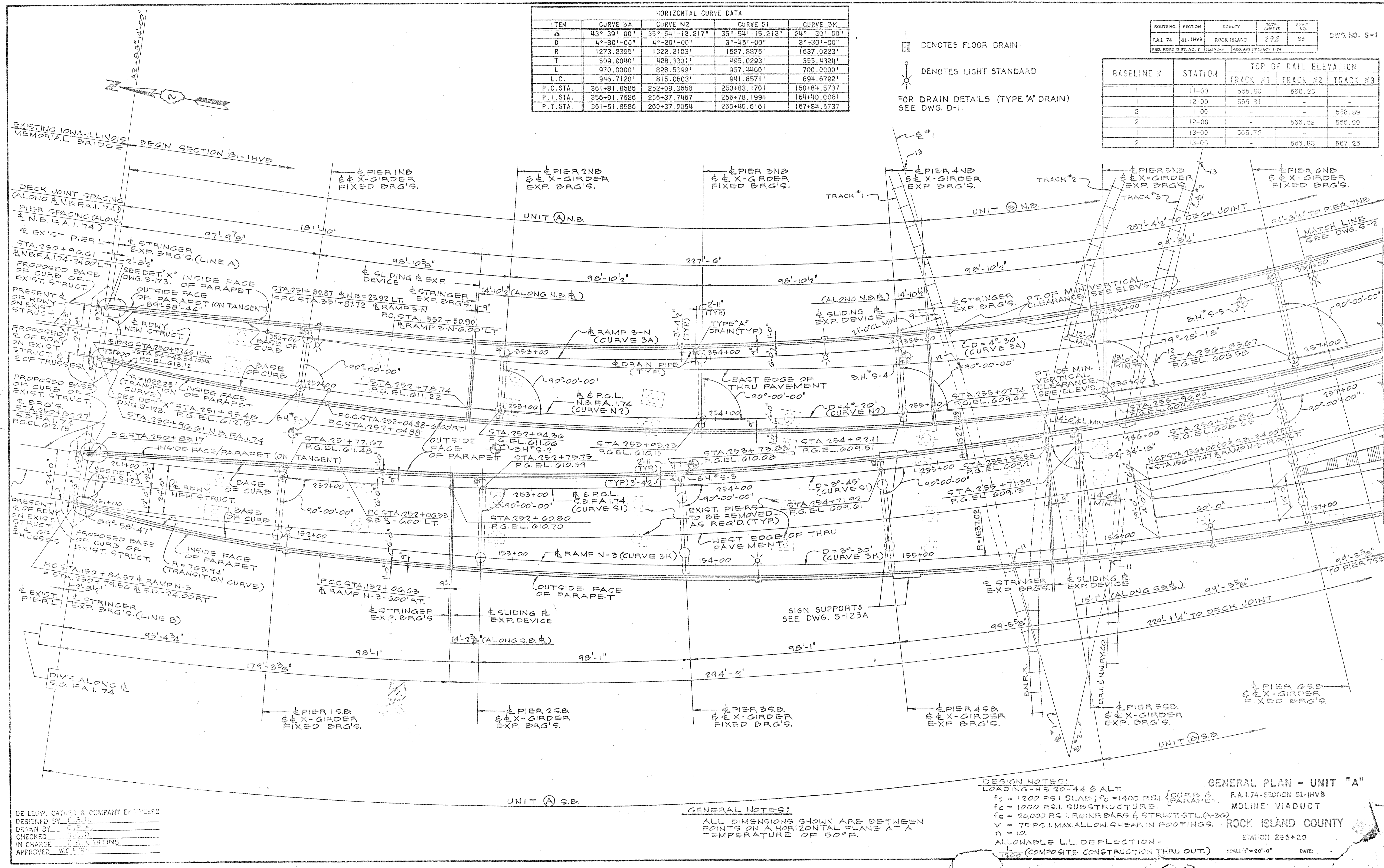


HORIZONTAL CURVE DATA				
ITEM	CURVE 3A	CURVE N2	CURVE S1	CURVE 3K
Δ	43°-39'-00"	35°-54'-12.217"	35°-54'-15.213"	24°-33'-00"
D	4°-30'-00"	4°-20'-00"	3°-45'-00"	3°-30'-00"
R	1273.2395'	1322.2103'	1527.8875'	1637.0223'
T	509.9040'	428.3301'	495.0293'	355.4324'
L	970.0000'	828.5399'	957.4460'	700.0000'
L.C.	946.7120'	815.0503'	941.8571'	694.6792'
P.C. STA.	351+81.8586	252+09.3656	250+83.1701	150+84.5737
P.I. STA.	356+91.7625	256+37.7457	255+78.1994	154+40.0061
P.T. STA.	361+51.8586	260+37.9054	260+40.6161	157+84.5737

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	DWG. NO.
FAL. 74	81-IHVB	ROCK ISLAND	298	63	5-1
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 1-74					

BASELINE #	STATION	TOP OF RAIL ELEVATION		
		TRACK #1	TRACK #2	TRACK #3
1	11+00	565.90	566.25	-
1	12+00	565.91	-	-
2	11+00	-	-	566.69
2	12+00	-	566.52	566.99
1	13+00	565.75	-	-
2	13+00	-	565.83	567.25

⊙ DENOTES FLOOR DRAIN  
 ⊙ DENOTES LIGHT STANDARD  
 FOR DRAIN DETAILS (TYPE 'A' DRAIN)  
 SEE DWG. D-1.



DE LEUW, CATHIE & COMPANY ENGINEERS  
 DESIGNED BY: J.S.M.  
 DRAWN BY: C.P.A.  
 CHECKED BY: J.C.D.  
 IN CHARGE: J.S. MARTINS  
 APPROVED: W.G. REYNOLDS

GENERAL NOTES:  
 ALL DIMENSIONS SHOWN ARE BETWEEN POINTS ON A HORIZONTAL PLANE AT A TEMPERATURE OF 50°F.

DESIGN NOTES:  
 LOADING-HS 20-44 & ALT.  
 fc = 1200 P.S.I. SLAB; fc = 1400 P.S.I. CURB & PARAPET.  
 fc = 1000 P.S.I. SUBSTRUCTURE.  
 fs = 20000 P.S.I. REIN. BARS & STRUCT. STL. (A-36)  
 v = 75 P.S.I. MAX. ALLOW. SHEAR IN FOOTINGS.  
 n = 10.  
 ALLOWABLE L.L. DEFLECTION -  
 1/1600 (COMPOSITE CONSTRUCTION THRU OUT.)



GENERAL PLAN - UNIT "A"  
 F.A.I. 74 - SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265+20  
 SCALE: 1" = 20'-0" DATE:

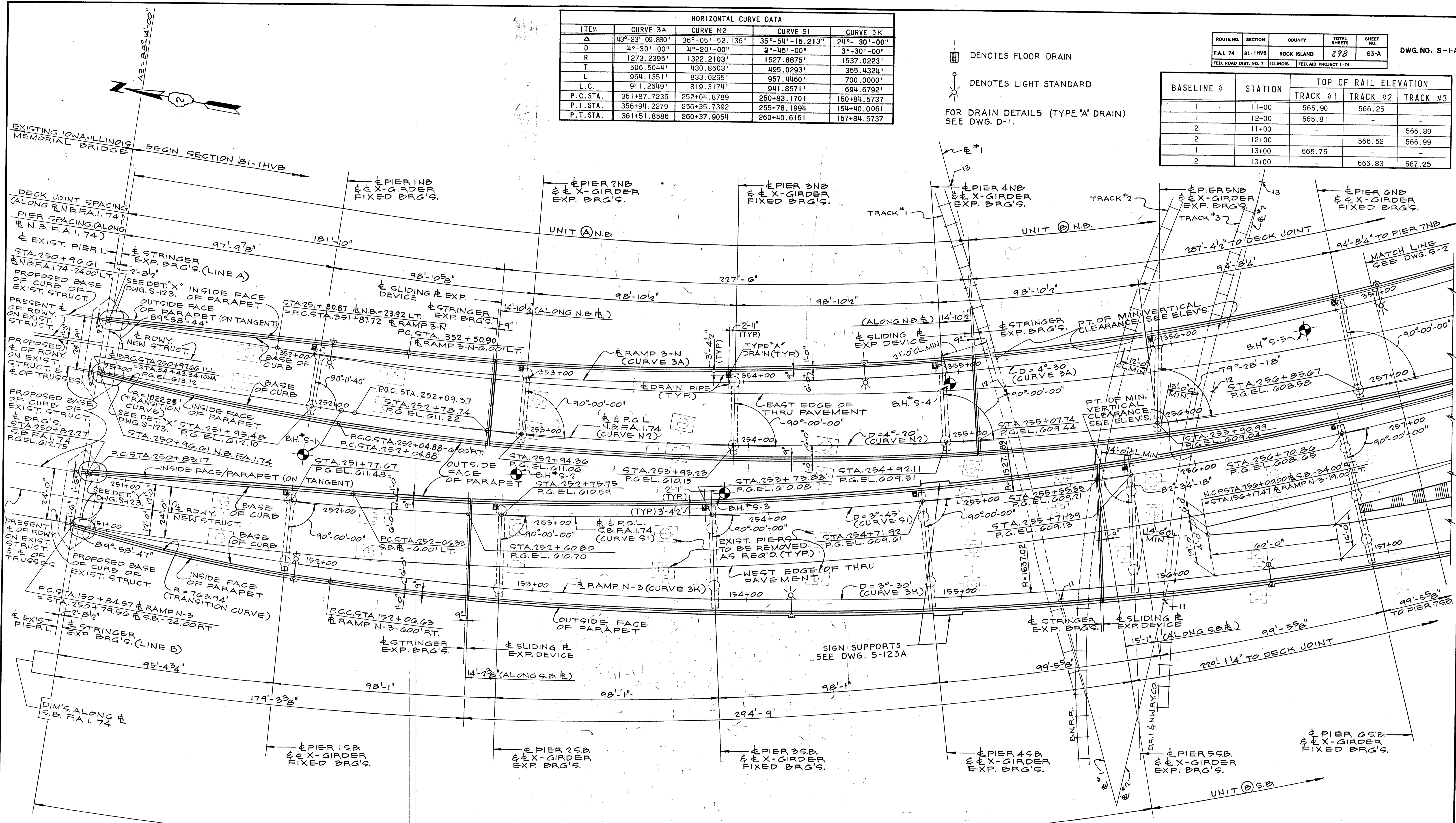


HORIZONTAL CURVE DATA				
ITEM	CURVE 3A	CURVE N2	CURVE S1	CURVE 3K
Δ	143°-23'-09.880"	36°-05'-52.136"	35°-54'-15.213"	24°-30'-00"
D	4°-30'-00"	4°-20'-00"	3°-45'-00"	3°-30'-00"
R	1273.2395'	1322.2103'	1527.8875'	1637.0223'
T	506.5044'	430.8603'	495.0293'	355.4324'
L	964.1351'	833.0265'	957.4460'	700.0000'
L.C.	941.2649'	819.3174'	941.8571'	694.6792'
P.C. STA.	351+87.7235	252+04.8789	250+83.1701	150+84.5737
P.I. STA.	356+94.2279	256+35.7392	255+78.1994	154+40.0061
P.T. STA.	361+51.8586	260+37.9054	260+40.6161	157+84.5737

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	63-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

BASELINE #	STATION	TOP OF RAIL ELEVATION		
		TRACK #1	TRACK #2	TRACK #3
1	11+00	565.90	566.25	-
1	12+00	565.81	-	-
2	11+00	-	-	566.89
2	12+00	-	566.52	566.99
1	13+00	565.75	-	-
2	13+00	-	566.83	567.25

 DENOTES FLOOR DRAIN  
 DENOTES LIGHT STANDARD  
 FOR DRAIN DETAILS (TYPE 'A' DRAIN) SEE DWG. D-1.



DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY E.S.M.  
 DRAWN BY G.P.A.  
 CHECKED T.C.D.  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

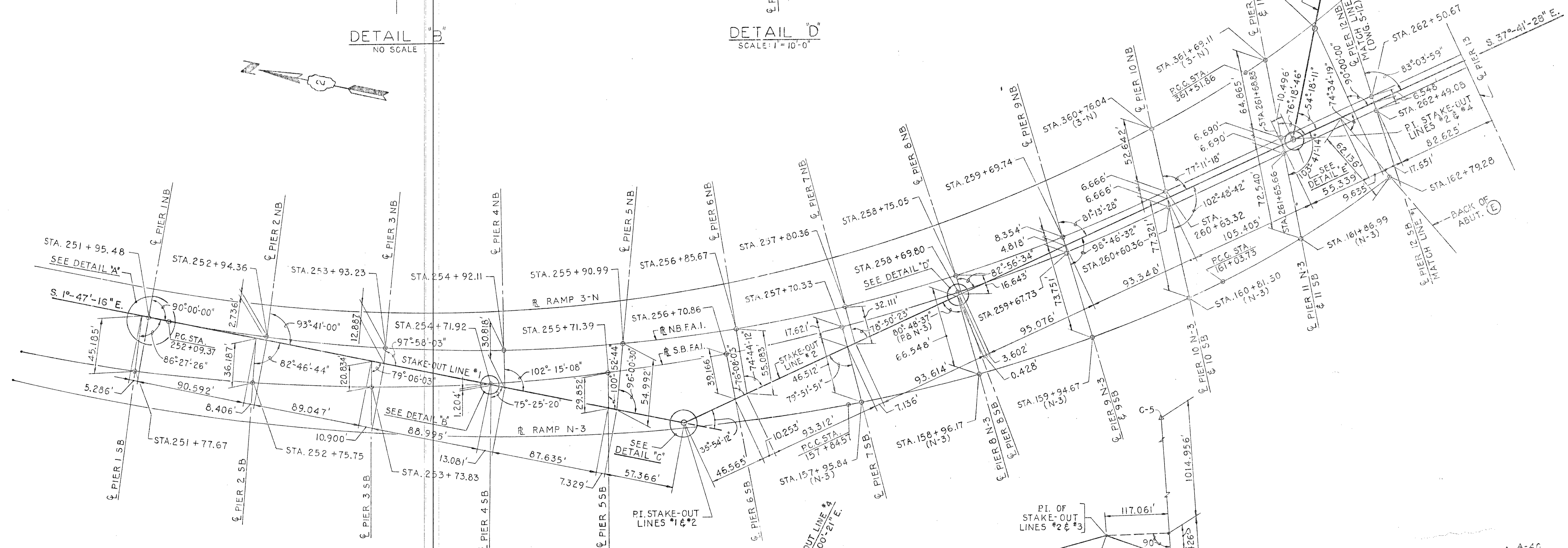
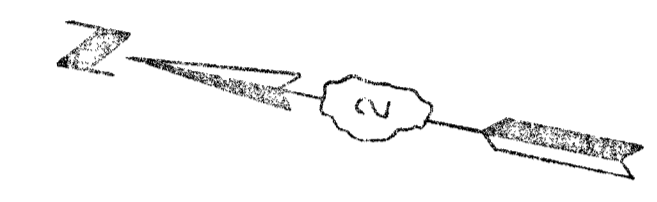
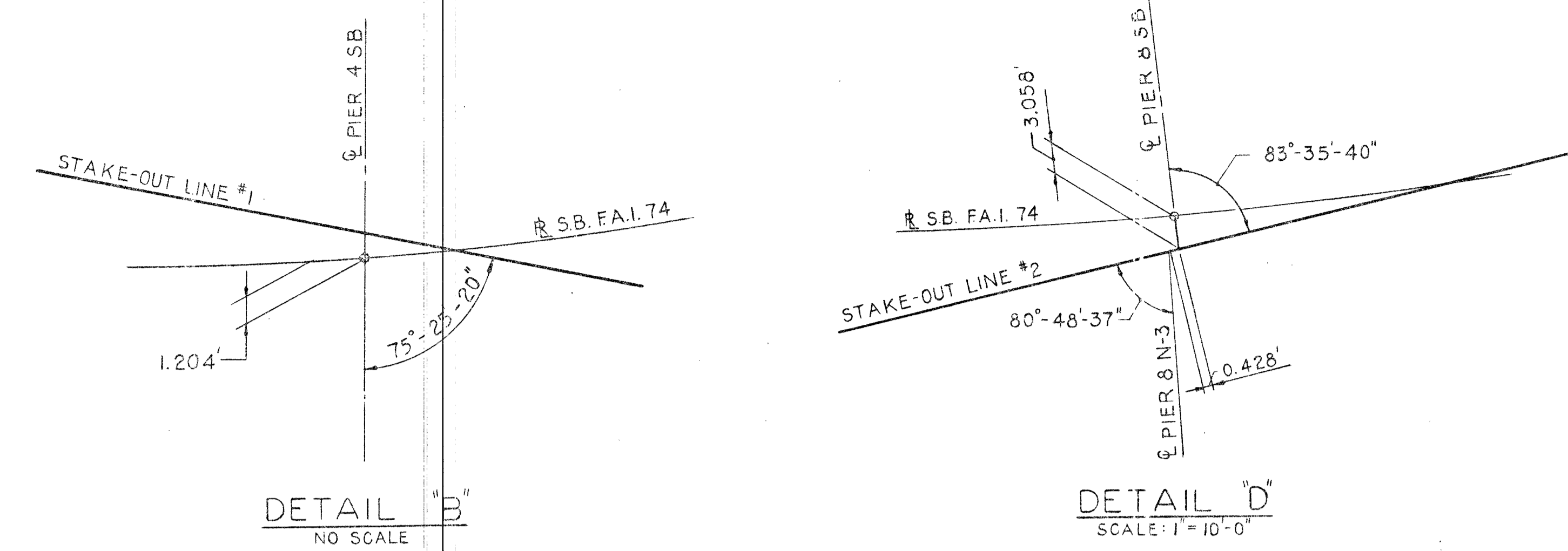
**GENERAL NOTES:**  
 ALL DIMENSIONS SHOWN ARE BETWEEN POINTS ON A HORIZONTAL PLANE AT A TEMPERATURE OF 50°F.

**DESIGN NOTES:**  
 LOADING-HS 20-44 & ALT.  
 fc = 1200 P.S.I. SLAB; fc = 1400 P.S.I. CURB & PARAPET.  
 fc = 1000 P.S.I. SUBSTRUCTURE.  
 fs = 20,000 P.S.I. REINF. BARS & STRUCT. STL. (A-36)  
 v = 75 P.S.I. MAX. ALLOW. SHEAR IN FOOTINGS.  
 n = 10.  
 ALLOWABLE L.L. DEFLECTION -  
 L/1200 (COMPOSITE CONSTRUCTION THRU OUT.)

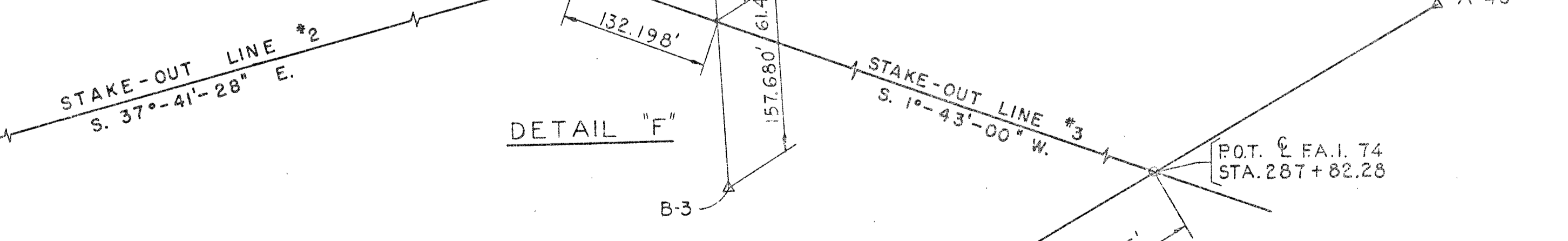
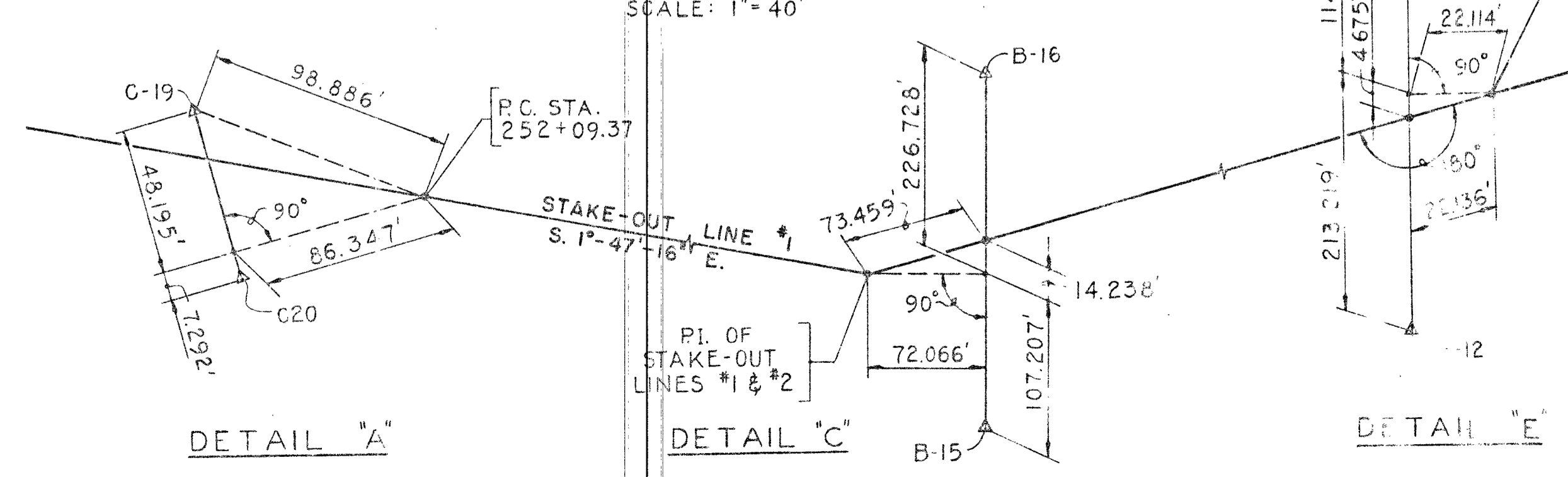
**GENERAL PLAN - UNIT "A"**  
 F.A.I. 74 - SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265+20  
 SCALE: 1" = 20'-0"  
 DATE: REVISED: JULY 28, 1972

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	71
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG NO. S-11

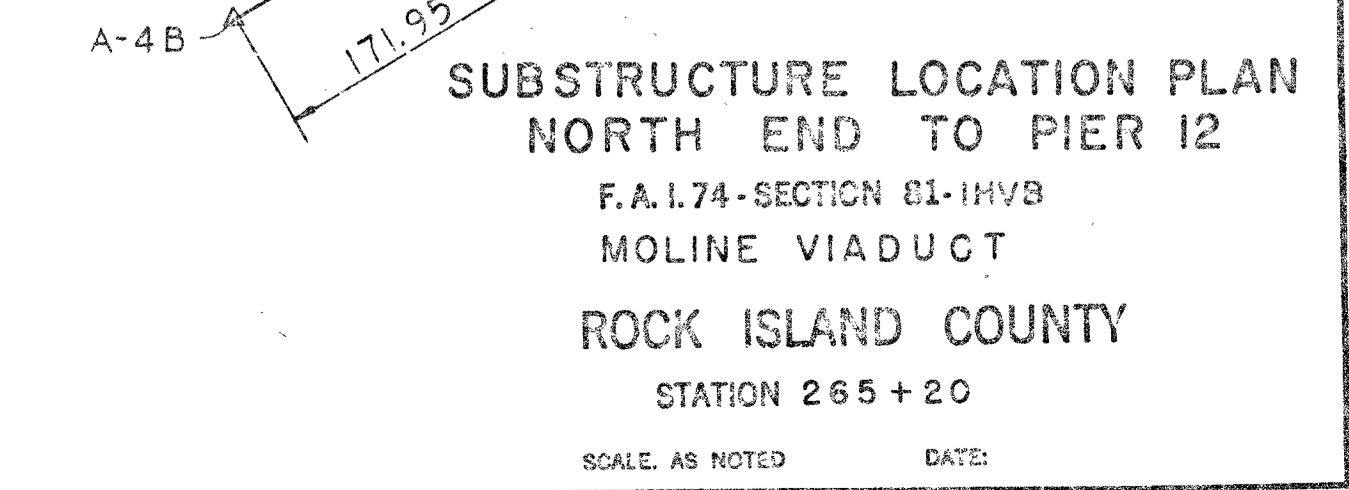


LOCATION PLAN FOR SUBSTRUCTURE WORK POINTS  
SCALE: 1" = 40'



STAKE-OUT DIAGRAM  
NOT TO SCALE.

DETAIL 'F'

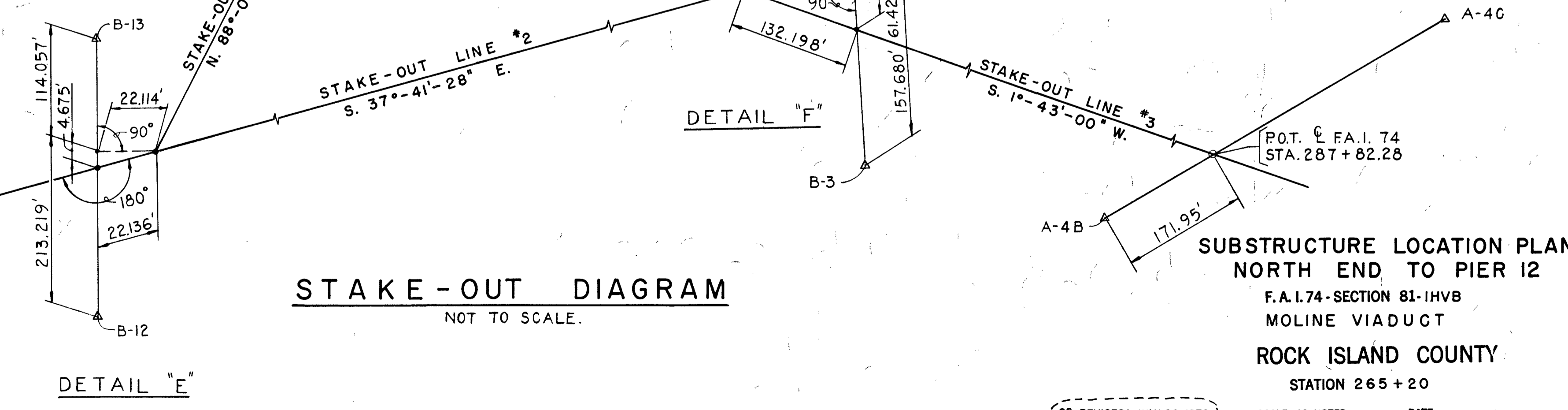
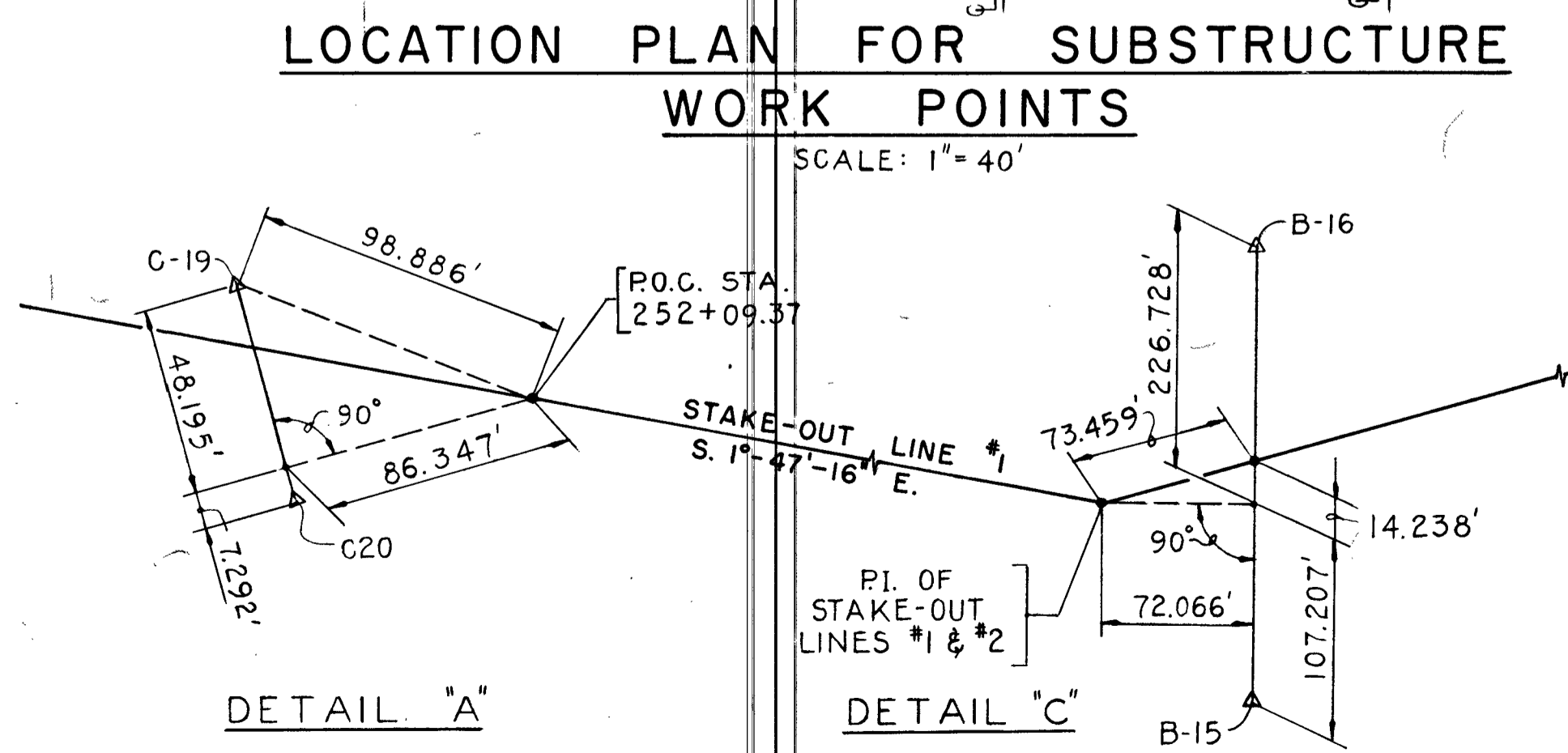
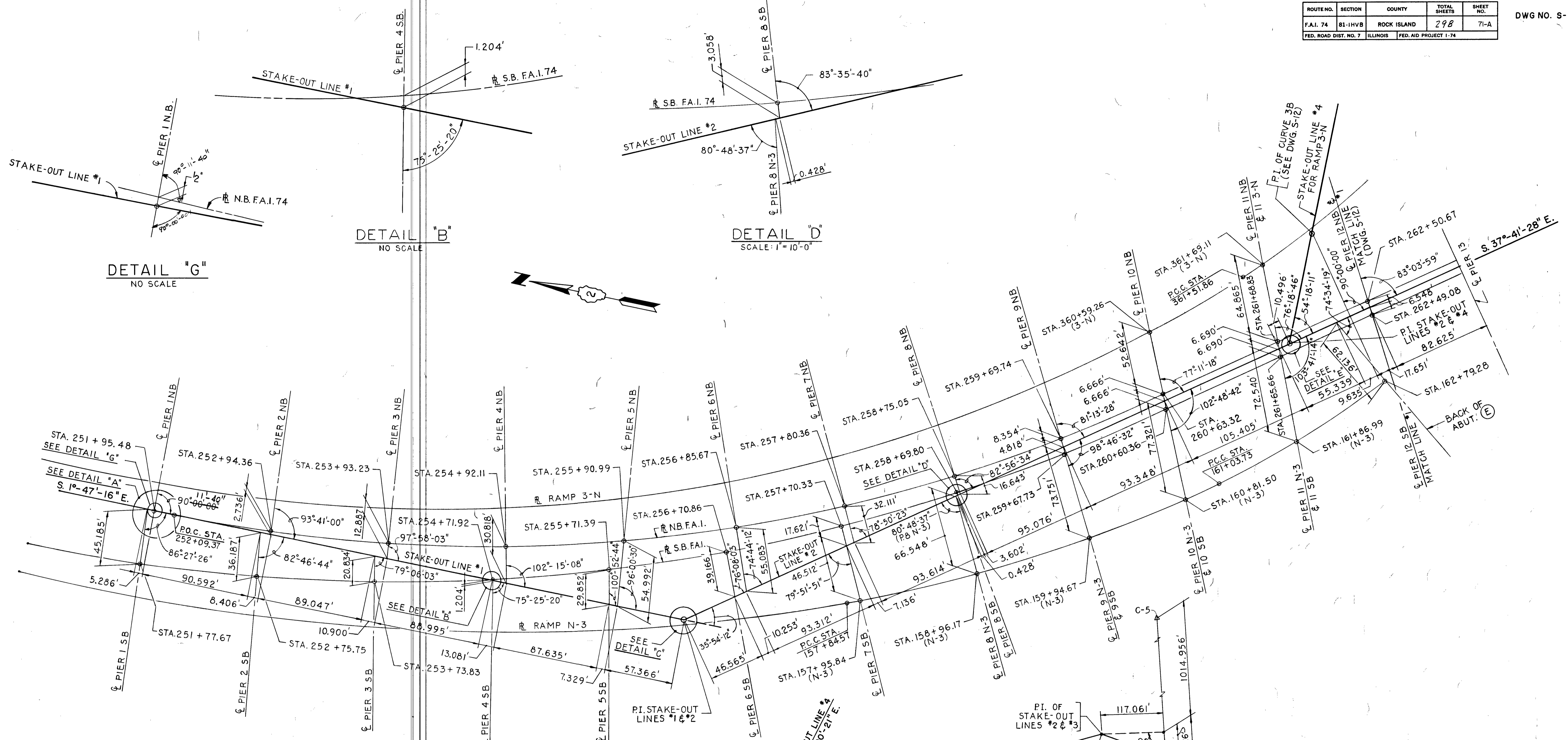


SUBSTRUCTURE LOCATION PLAN  
NORTH END TO PIER 12  
F.A.I. 74-SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20  
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. S. MARTINS  
DRAWN BY M. VADKERTY  
CHECKED [Signature]  
IN CHARGE E. S. MARTINS  
APPROVED W.G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	71-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG NO. S-11A



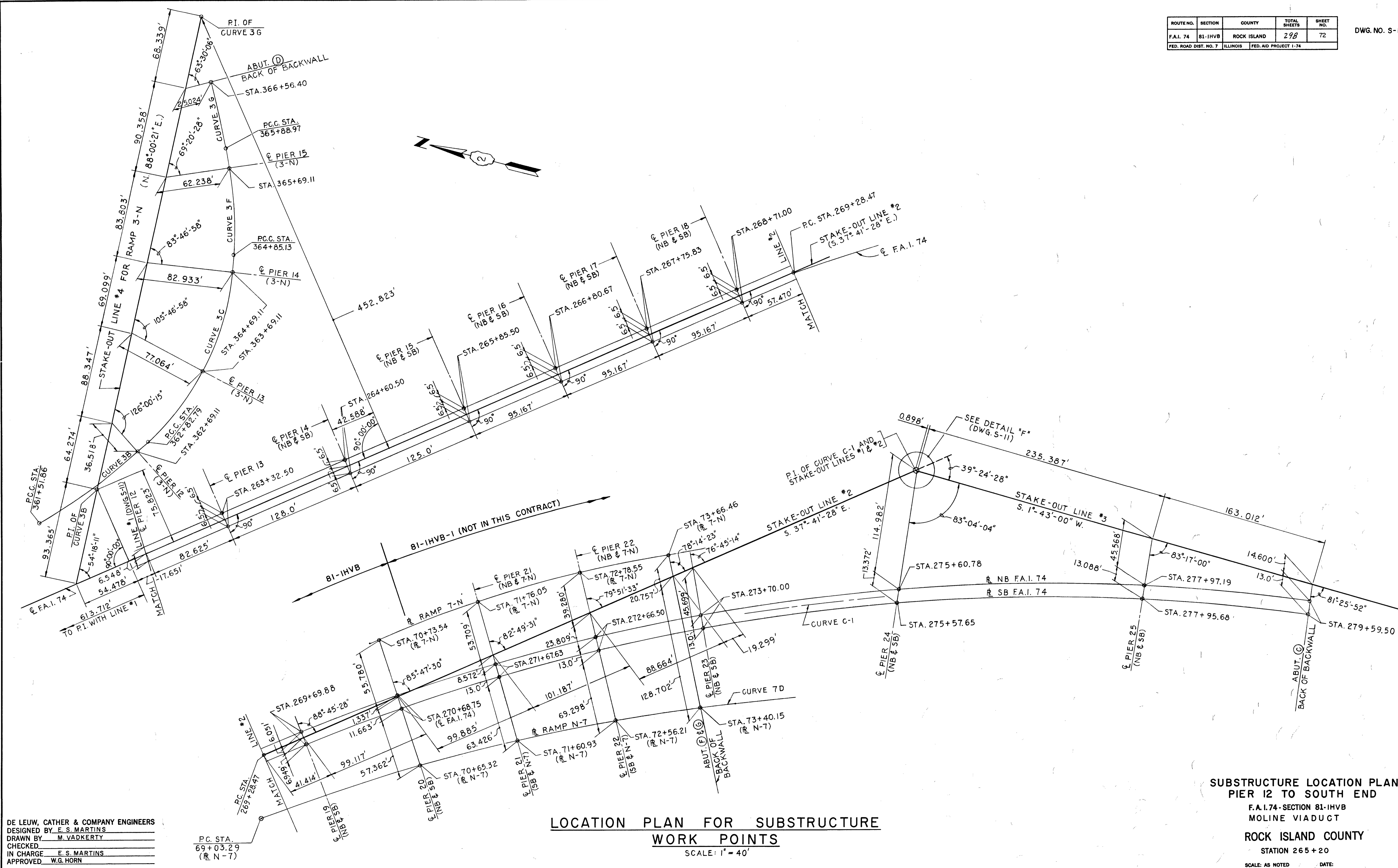
**SUBSTRUCTURE LOCATION PLAN**  
NORTH END TO PIER 12  
F.A.I. 74-SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. S. MARTINS  
DRAWN BY M. VADKERTY  
CHECKED BY [Signature]  
IN CHARGE E. S. MARTINS  
APPROVED W.G. HORN

43 REVISED: JULY 28, 1972

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	72
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-12



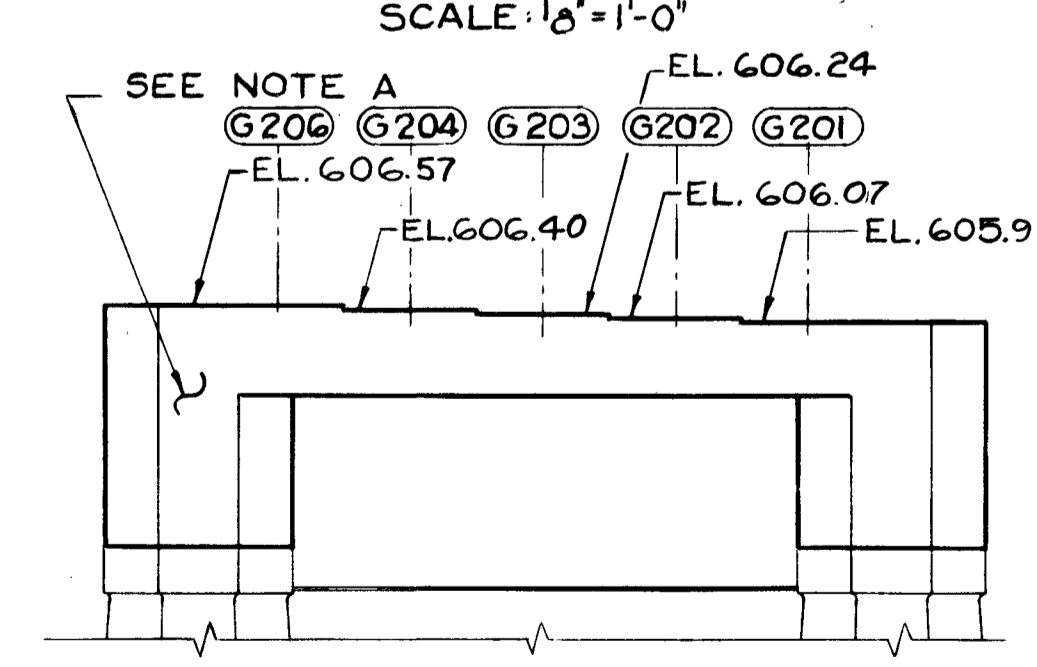
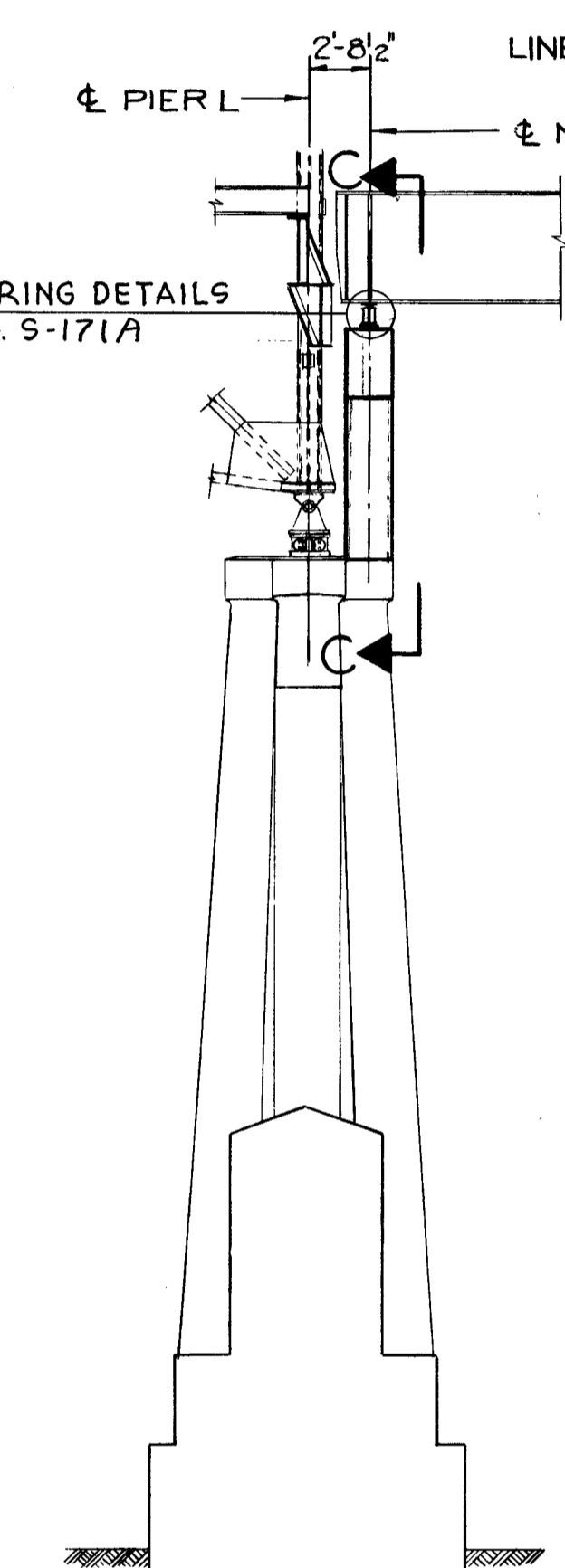
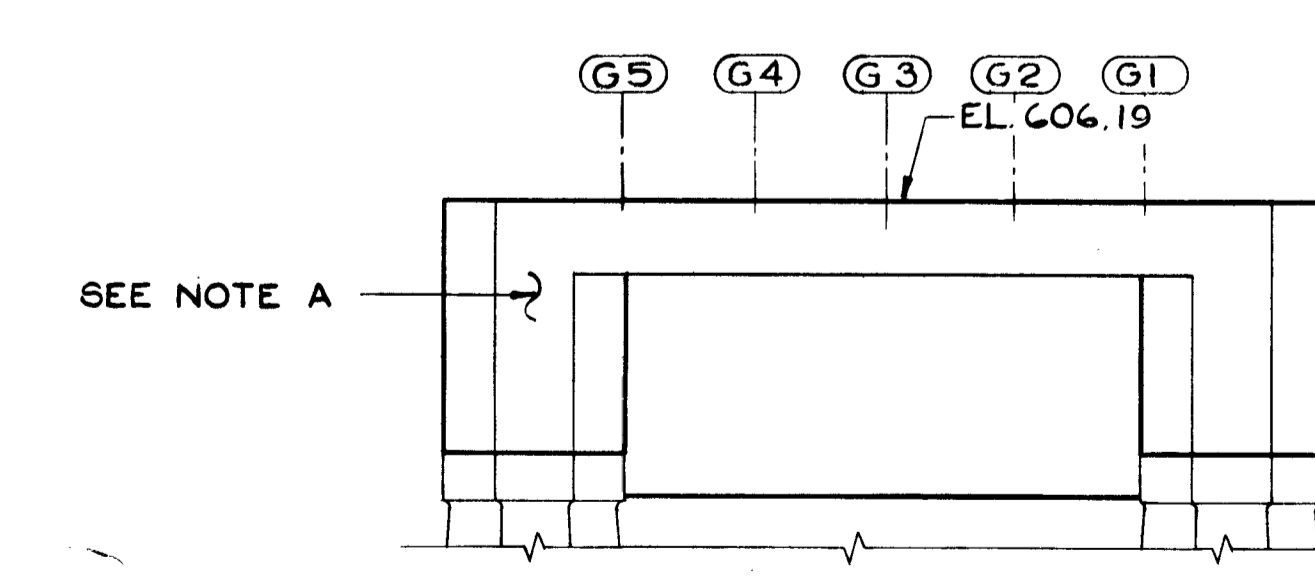
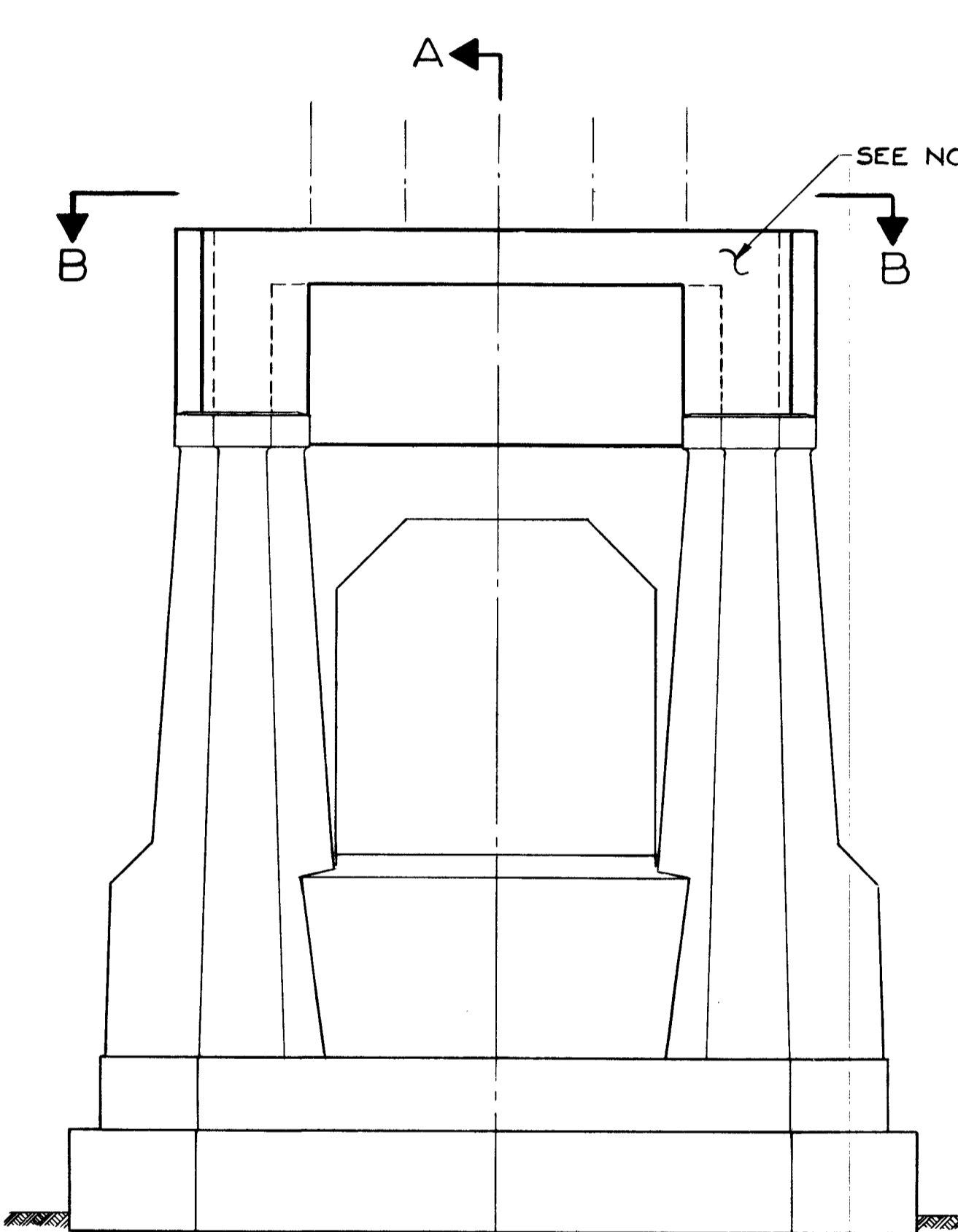
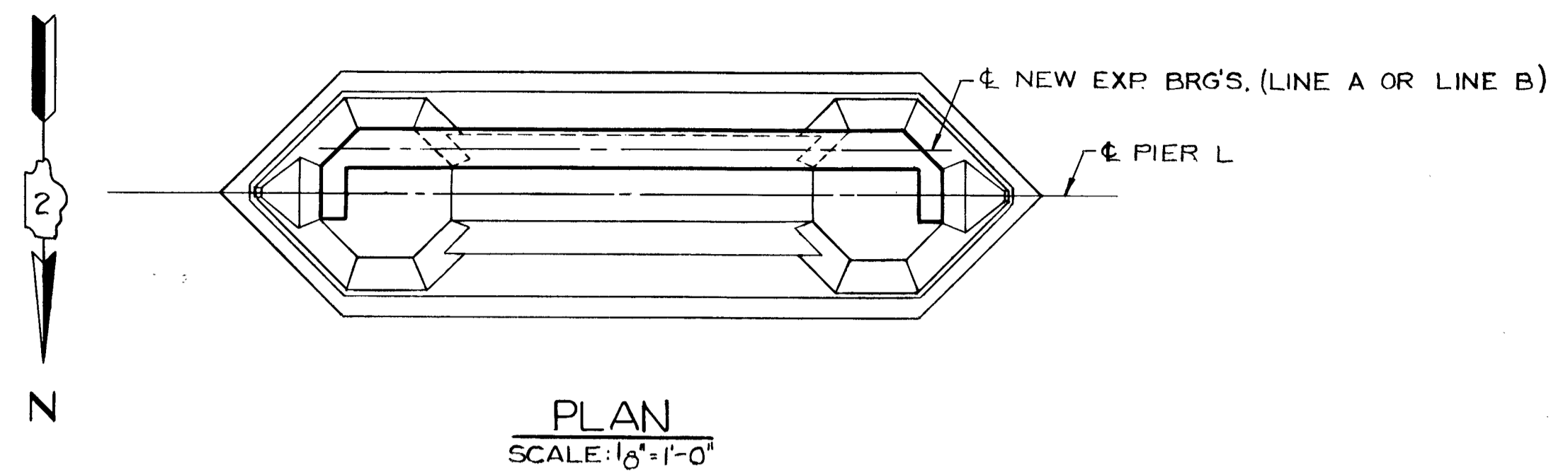
**LOCATION PLAN FOR SUBSTRUCTURE  
WORK POINTS**  
SCALE: 1" = 40'

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. S. MARTINS  
DRAWN BY M. VADKERTY  
CHECKED \_\_\_\_\_  
IN CHARGE E. S. MARTINS  
APPROVED W.G. HORN

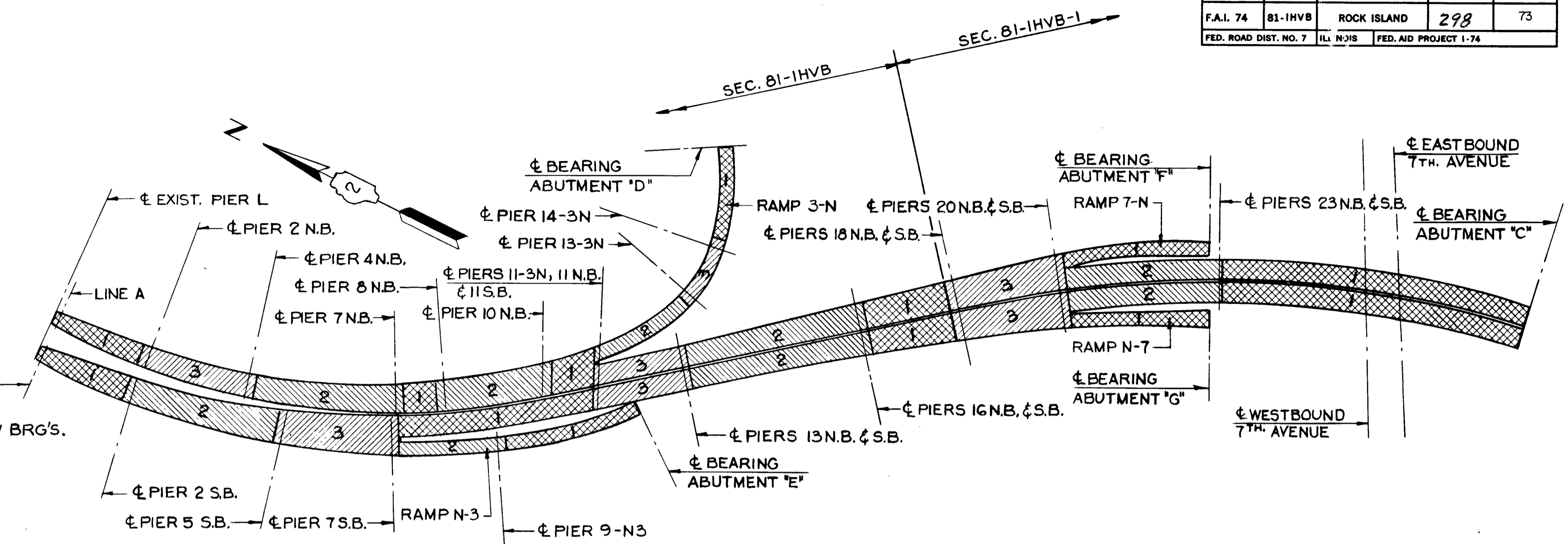
P.C. STA.  
69+03.29  
(R N-7)

**SUBSTRUCTURE LOCATION PLAN  
PIER 12 TO SOUTH END**  
F.A.I. 74-SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20  
SCALE: AS NOTED DATE:

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	73
FED. ROAD DIST. NO. 7		ILL. N.H.S.	FED. AID PROJECT 1-74	



NOTE A  
BY OTHERS:  
1) RECONSTRUCTION WORK OF EXISTING PIERS L TO PROVIDE REQUIRED SEAT ELEVATIONS FOR BEARING LINES A & B  
2) FABRICATION OF EXPANSION DEVICE BETWEEN EXISTING AND PROPOSED STRUCTURES.  
THE ILLINOIS HALF OF THE EXPANSION DEVICE SHALL BE INSTALLED BY THE CONTRACTOR FOR THIS SECTION. HE SHALL ALSO PROVIDE ADDITIONAL SHIMS OR STOOLS FOR THE SO. BD. STRUCTURE AS REQ'D. COST IS INC. TO F&E. STR. STEEL. SEE SPECIAL PROVISIONS.  
RECONSTRUCTION WORK IS SHOWN QUALITATIVELY. IT MAY BE DIFFERENT THAN SHOWN. EXCEPT THAT BEARING ELEVATION SHOWN SHALL BE MAINTAINED.

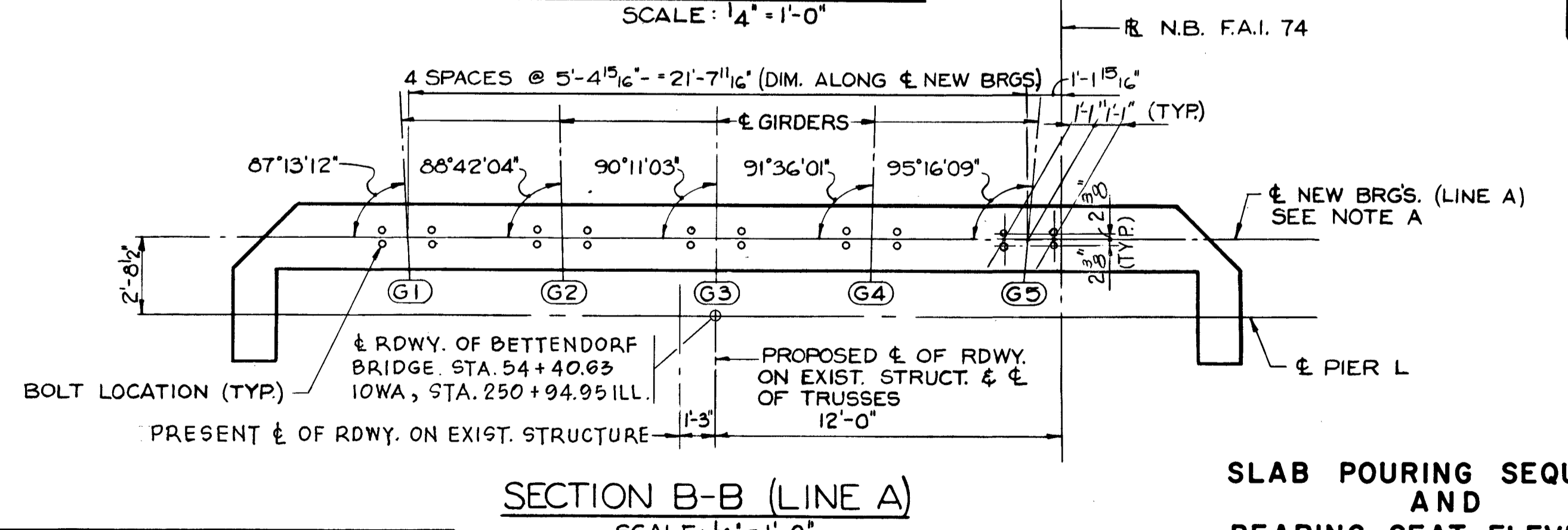
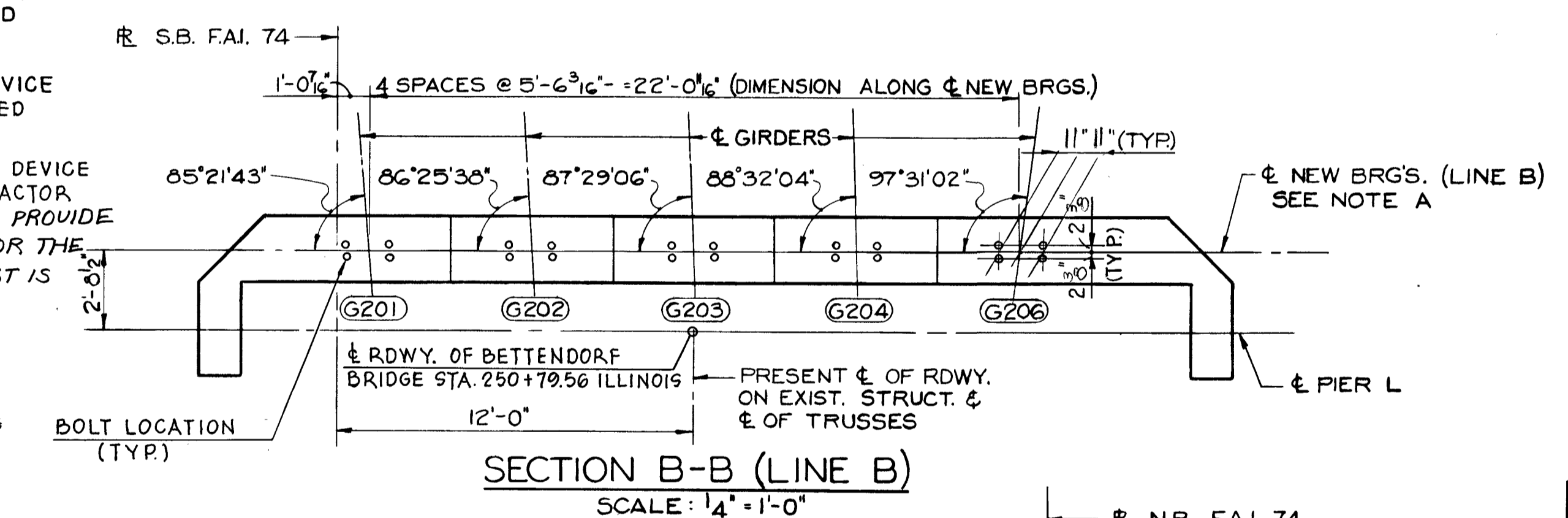


SLAB POURING SEQUENCE

AREAS SHADED [diagonal lines] MUST BE POURED BEFORE ANY ADJACENT AREAS SHADED [cross-hatch] OR [dots] ARE POURED.

AREAS SHADED [dots] MUST BE POURED BEFORE ANY ADJACENT AREAS SHADED [cross-hatch] ARE POURED.

AREAS SHADED [cross-hatch] MAY NOT BE POURED UNTIL ALL ADJACENT AREAS SHADED [diagonal lines] OR [dots] ARE IN PLACE.



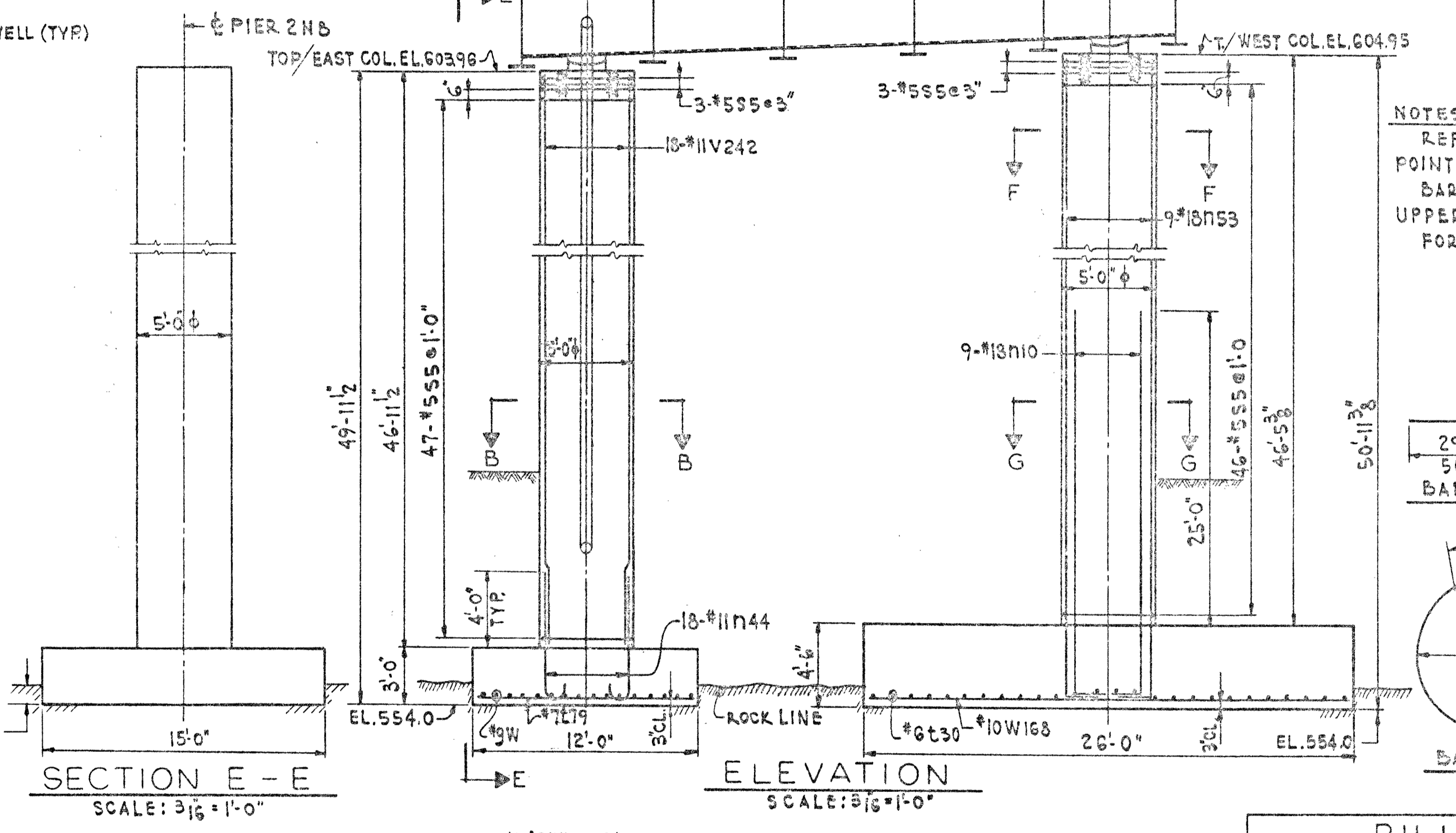
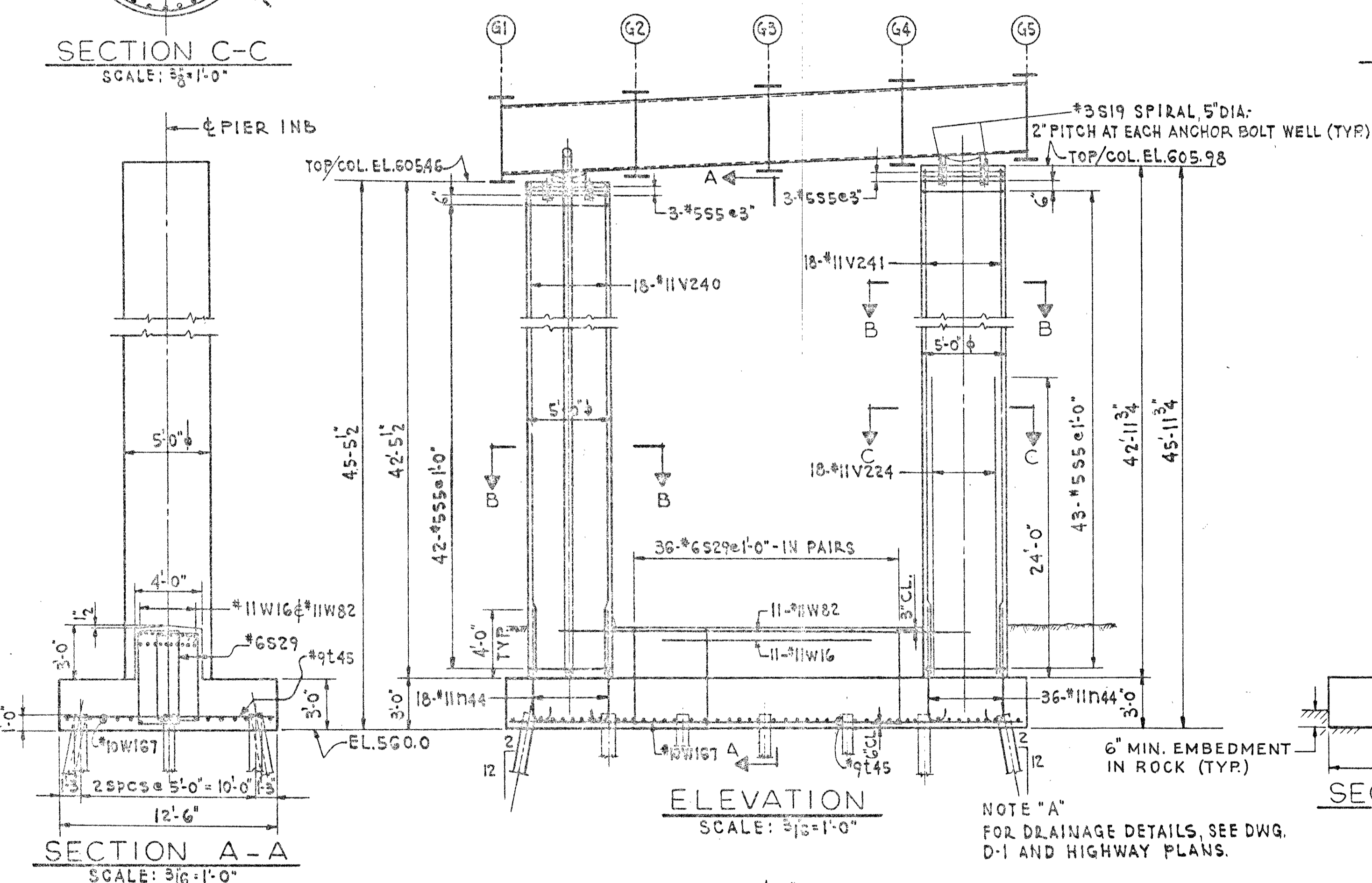
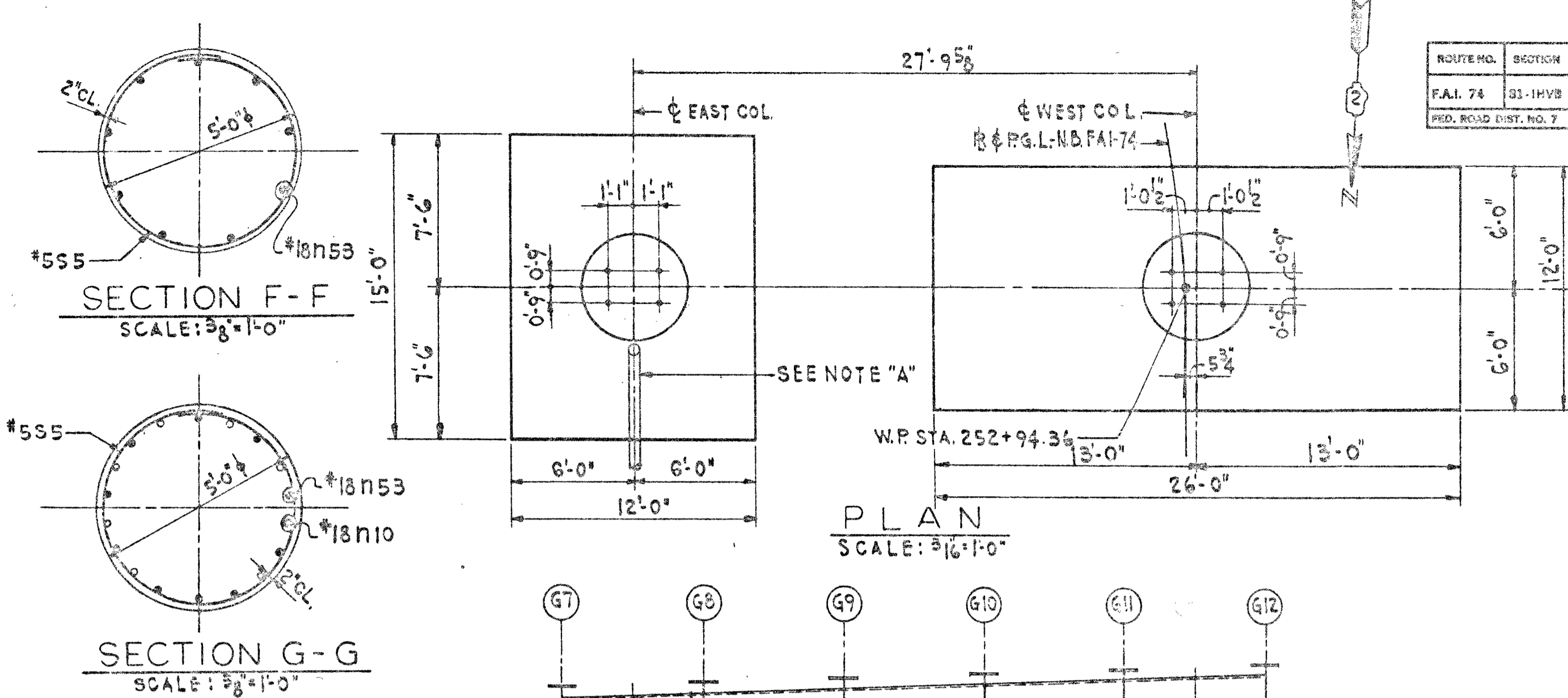
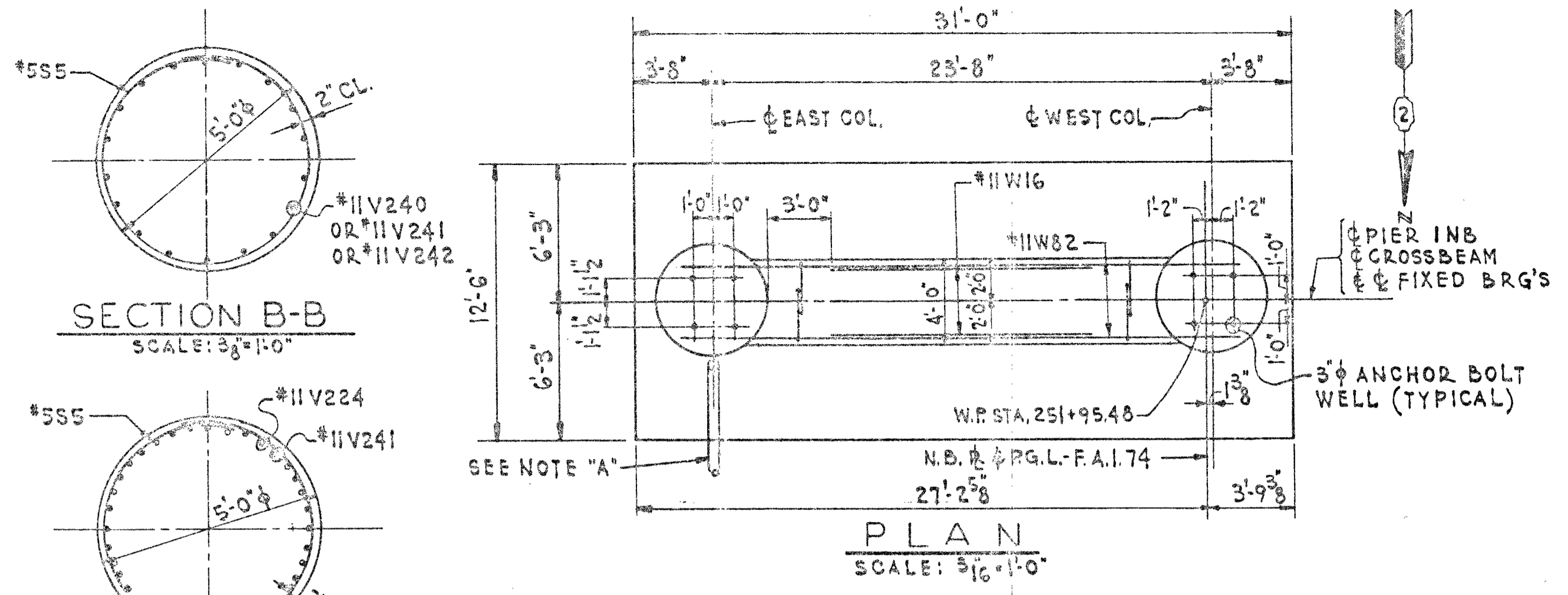
END REACTIONS (FOR DESIGN OF PIER L MODIFICATIONS)

LOCATION	DEAD LOAD	SUPER-IMPOSED DEAD LOAD	LIVE LOAD (IMPACT NOT INCLUDED)
N.B. (LINE A)	32.4 K/GIRDER	13.3 K/GIRDER	63.6 K/LANE
S.B. (LINE B)	29.4 K/GIRDER	11.4 K/GIRDER	63.4 K/LANE

SLAB POURING SEQUENCE AND BEARING SEAT ELEVATIONS ON EXISTING PIER L

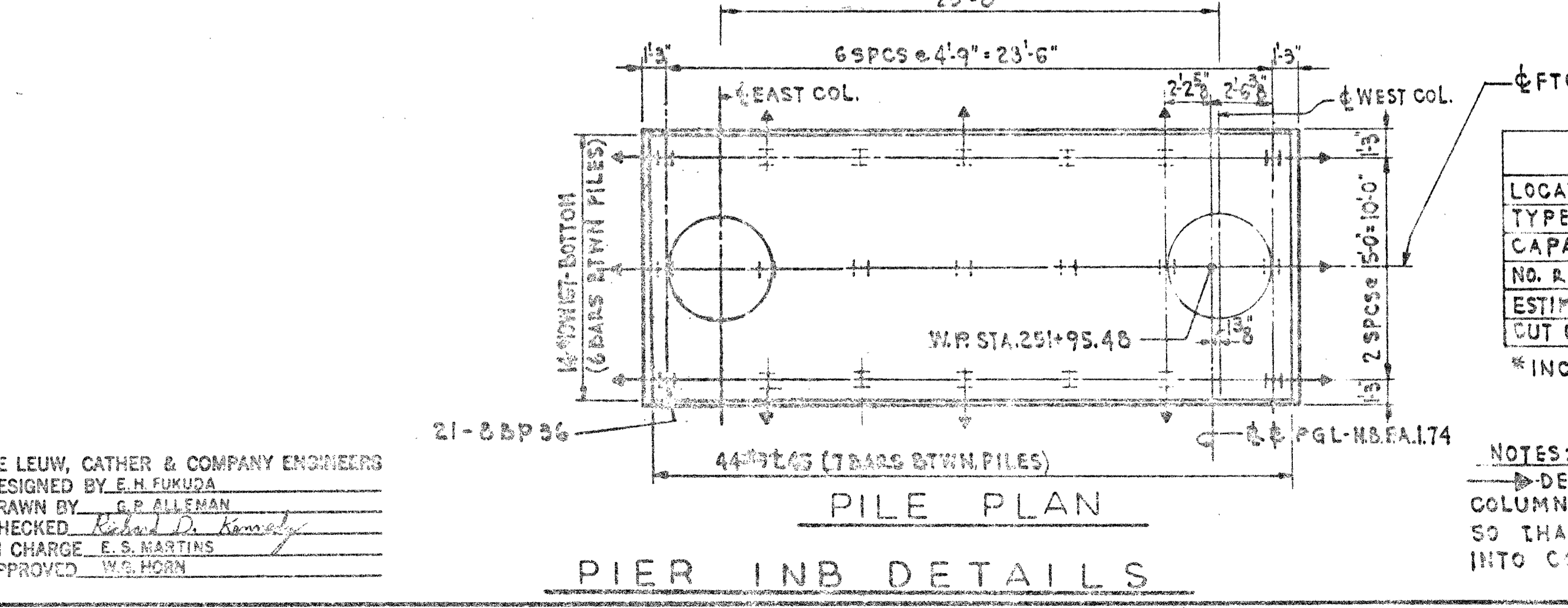
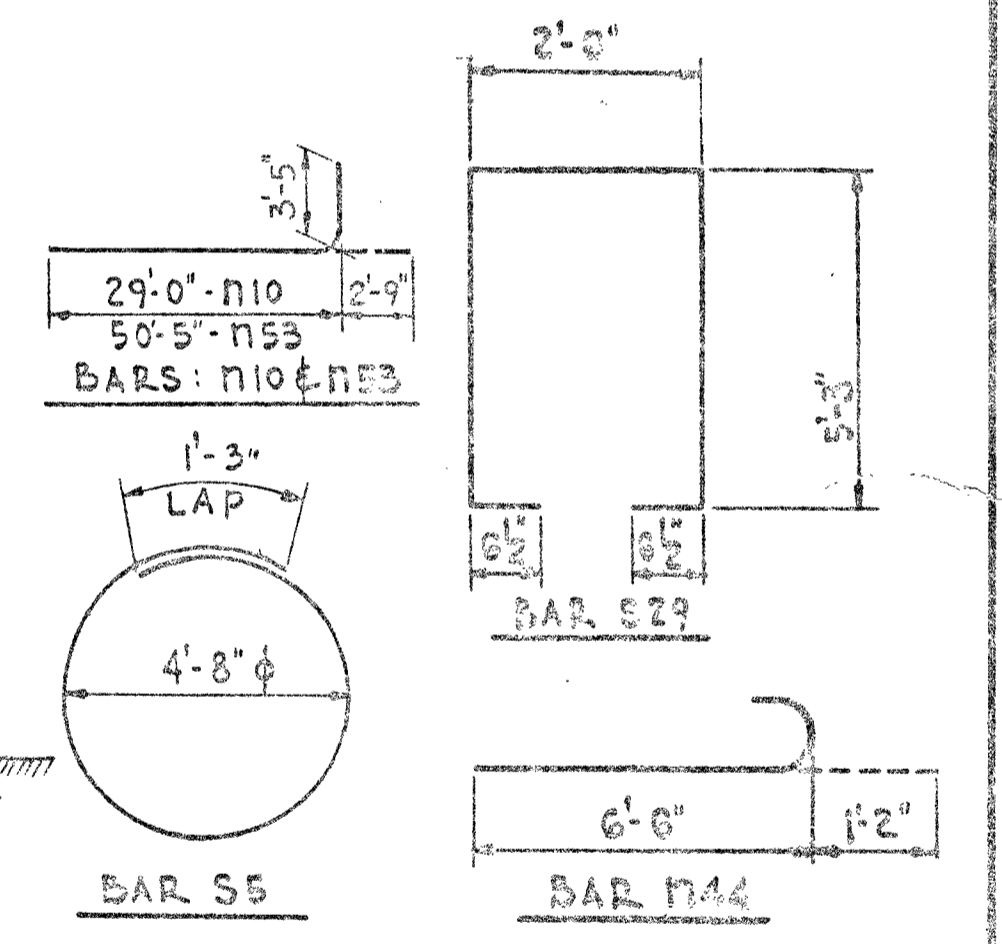
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. KENNEDY  
DRAWN BY N. A. BACON  
CHECKED B. Kennedy  
IN CHARGE E. S. MARTINS  
APPROVED W.G. HORN



REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR OF BARS SIZE	LENGTH	SHAPE
N44	54	11	7-8	PIER 1NB
S5	91	5	16-0	
S19	6	3	9-10	
S29	36	6	14-1	
T45	44	9	12-2	
V224	18	11	24-0	
V240	18	11	42-3	
V241	18	11	42-9	
W16	11	11	12-8	
W2	11	11	24-6	
W167	14	10	30-8	
N10	9	18	31-9	
N44	18	11	7-8	
N53	9	18	53-2	
S5	69	5	16-0	
S19	6	3	9-10	
T30	26	6	11-8	
T79	15	7	11-8	
V242	18	11	46-9	
W168	20	10	23-6	
W169	16	9	14-8	

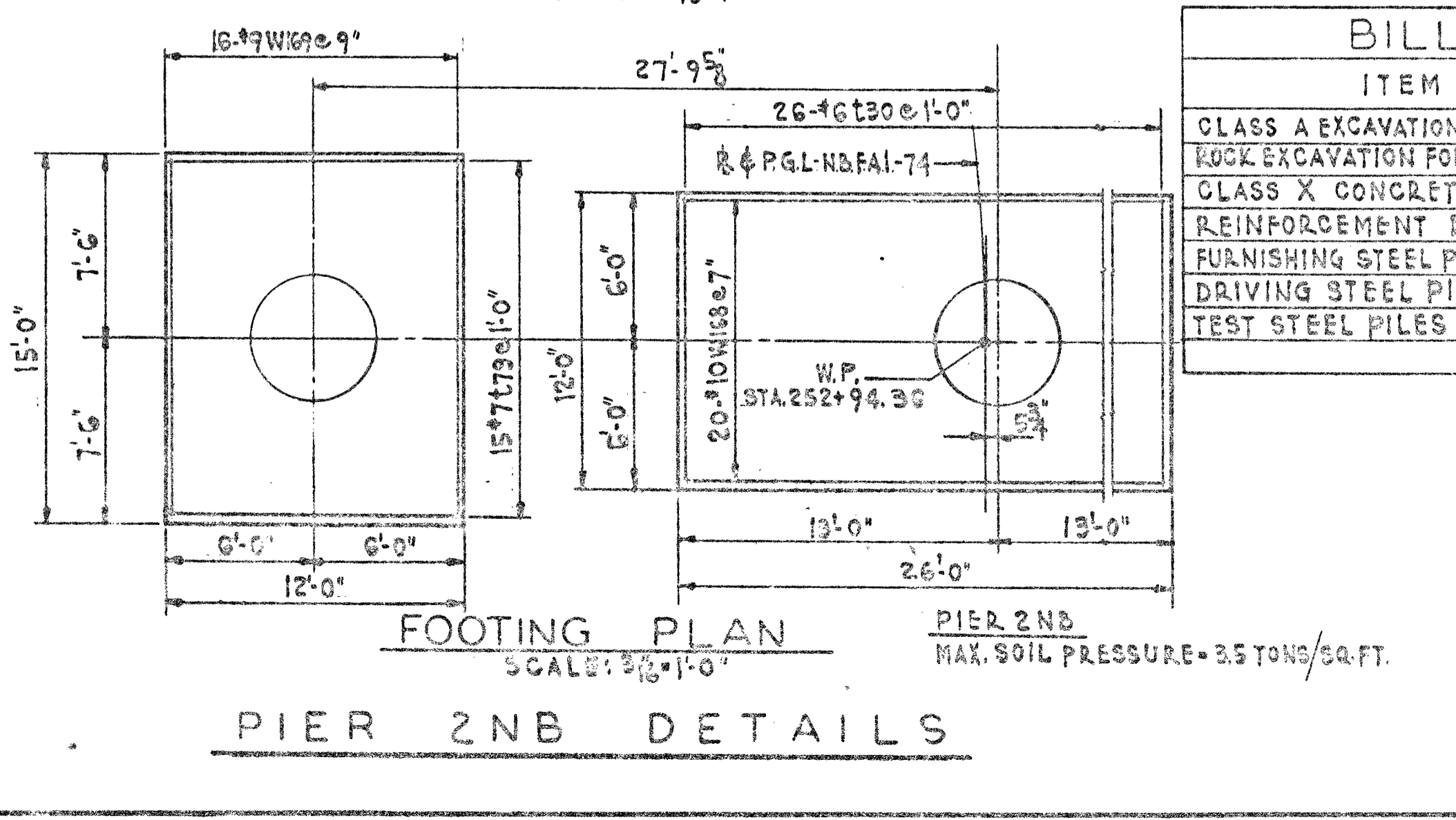
NOTES:  
REFER TO DWG. S-II FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.  
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR. FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-10.



PILE DATA	
LOCATION	PIER 1NB
TYPE	8BP 36
CAPACITY	DRIVE TO REFUSAL
NO. REQUIRED	21*
ESTIMATED LENGTH	13 FT.
CUT OFF ELEVATION	561.0

\*INCLUDES 1 TEST PILE.

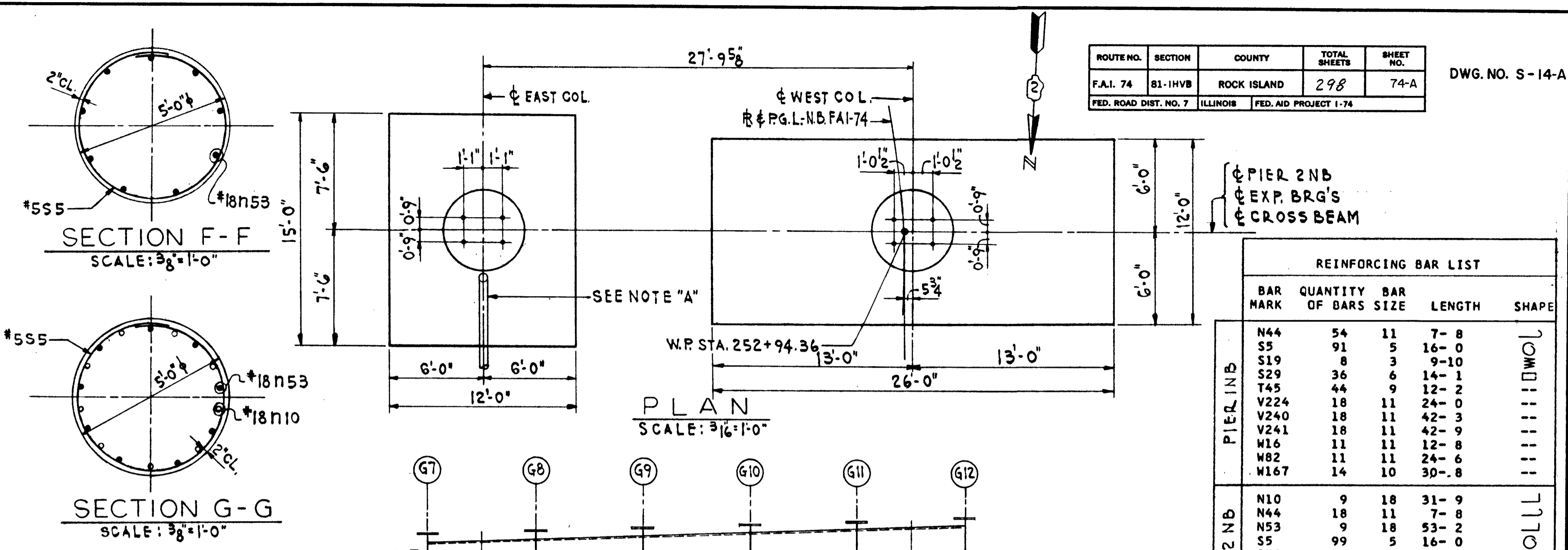
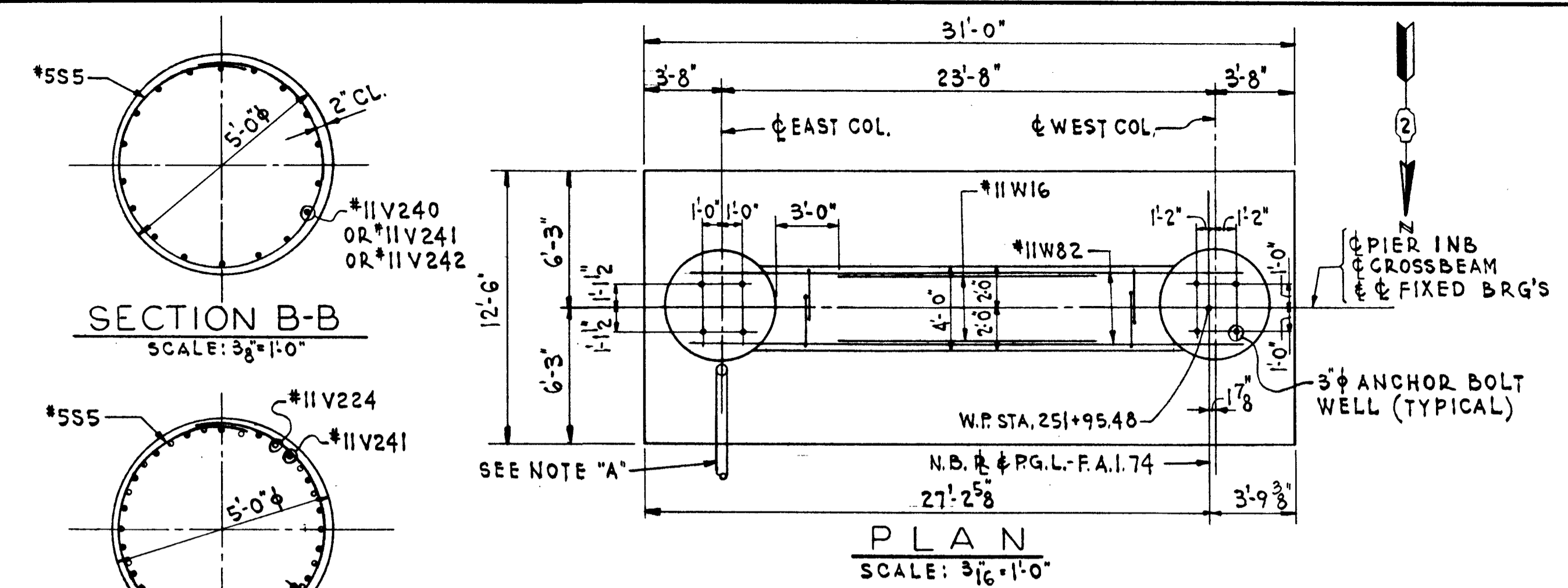
NOTES:  
② DENOTES 2 IN BATTER PILES.  
COLUMN DOWEL BARS TO BE ARRANGED SO THAT TOP RIB STEEL CAN BE TAKEN INTO COLUMN.



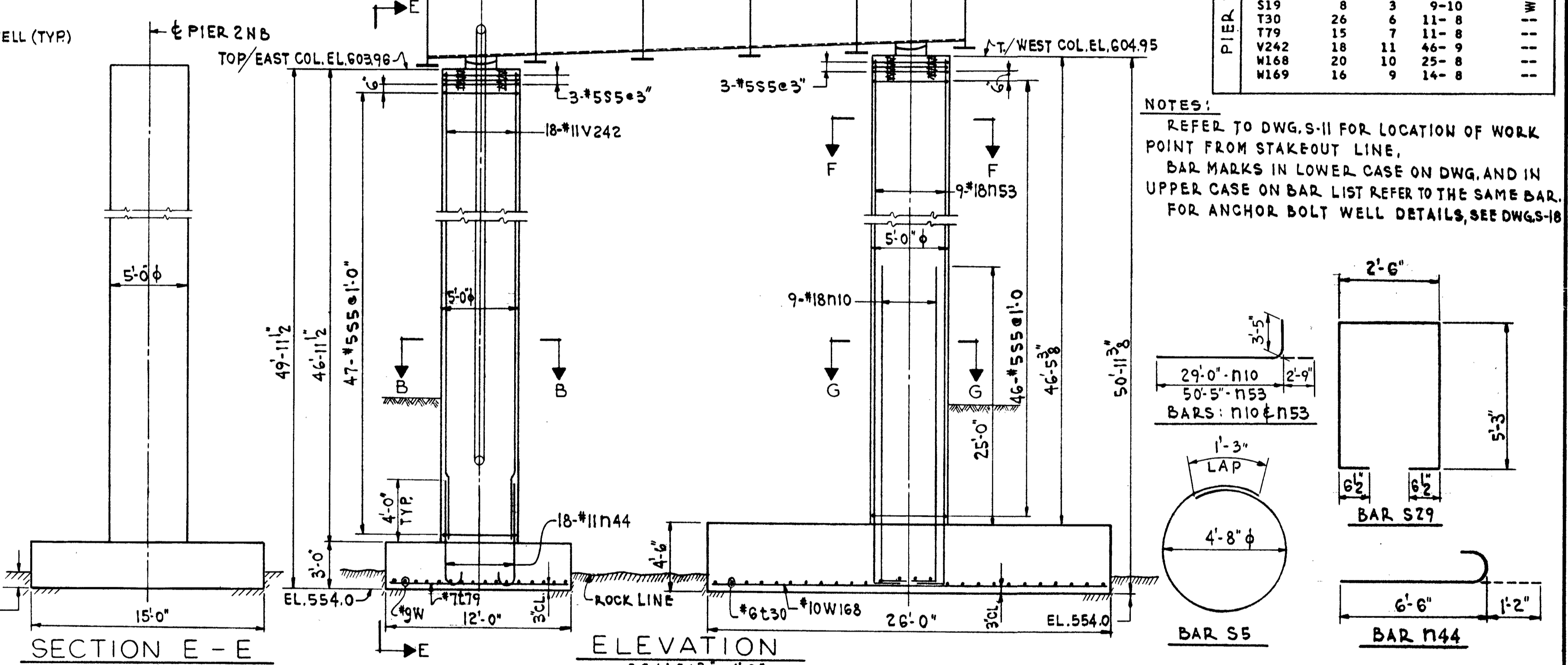
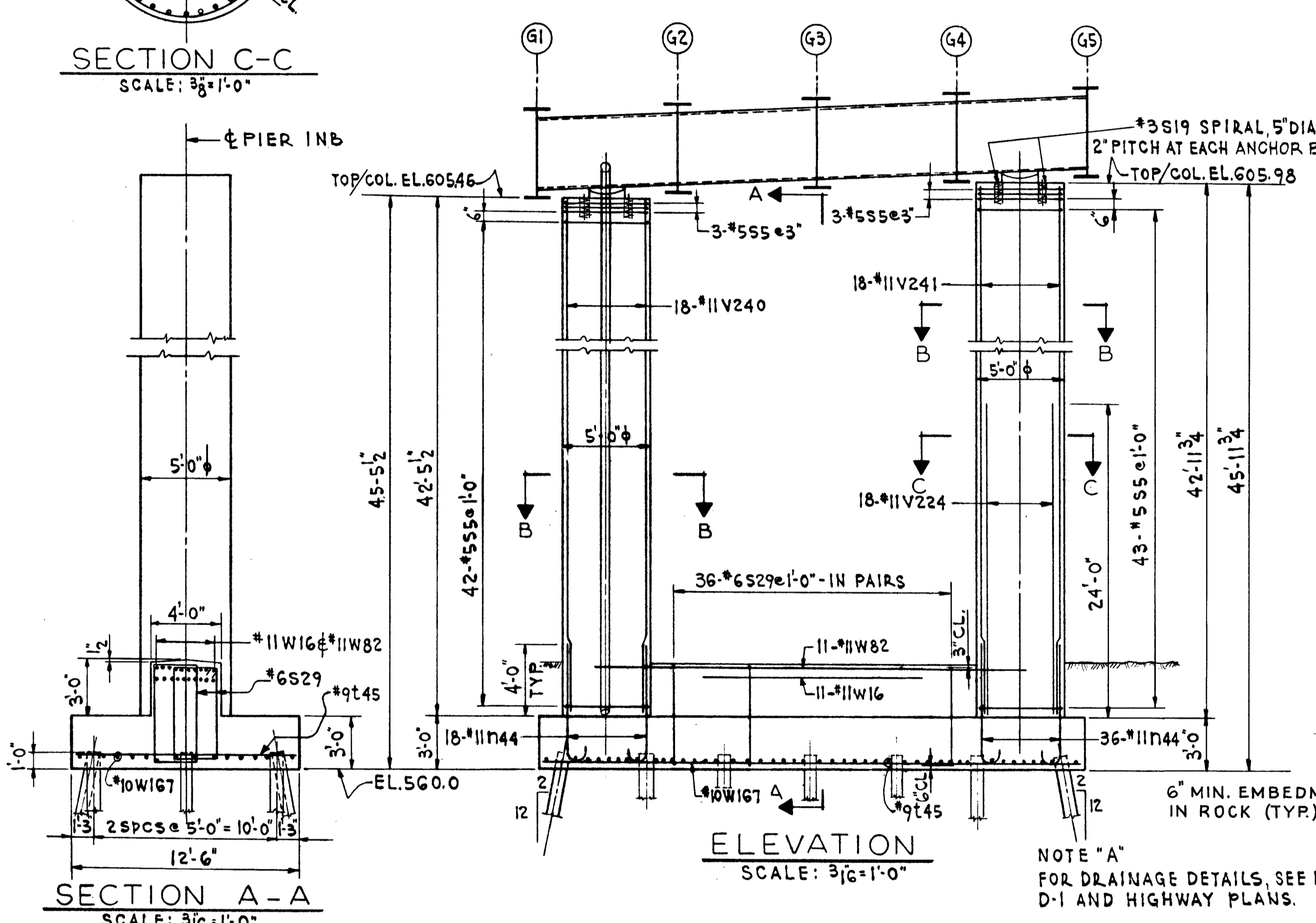
BILL OF MATERIAL			
ITEM	UNIT	QUANTITY	
CLASS A EXCAVATION FOR STRUCTURE	CUYD.	123	354
ROCK EXCAVATION FOR STRUCTURE	CUYD.	—	9
CLASS X CONCRETE	CUYD.	113.6	140.0
REINFORCEMENT BARS	POUND	29773	31100
FURNISHING STEEL PILES (8BP36)	LIN. FT.	260	—
DRIVING STEEL PILES	LIN. FT.	260	—
TEST STEEL PILES (8BP36)	EACH	1	—

PIERS 1 (N.B.) AND 2 (N.B.)  
F.A.I. 74-SECTION 31-1HVS  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 255+20  
SCALE AS NOTED DATE

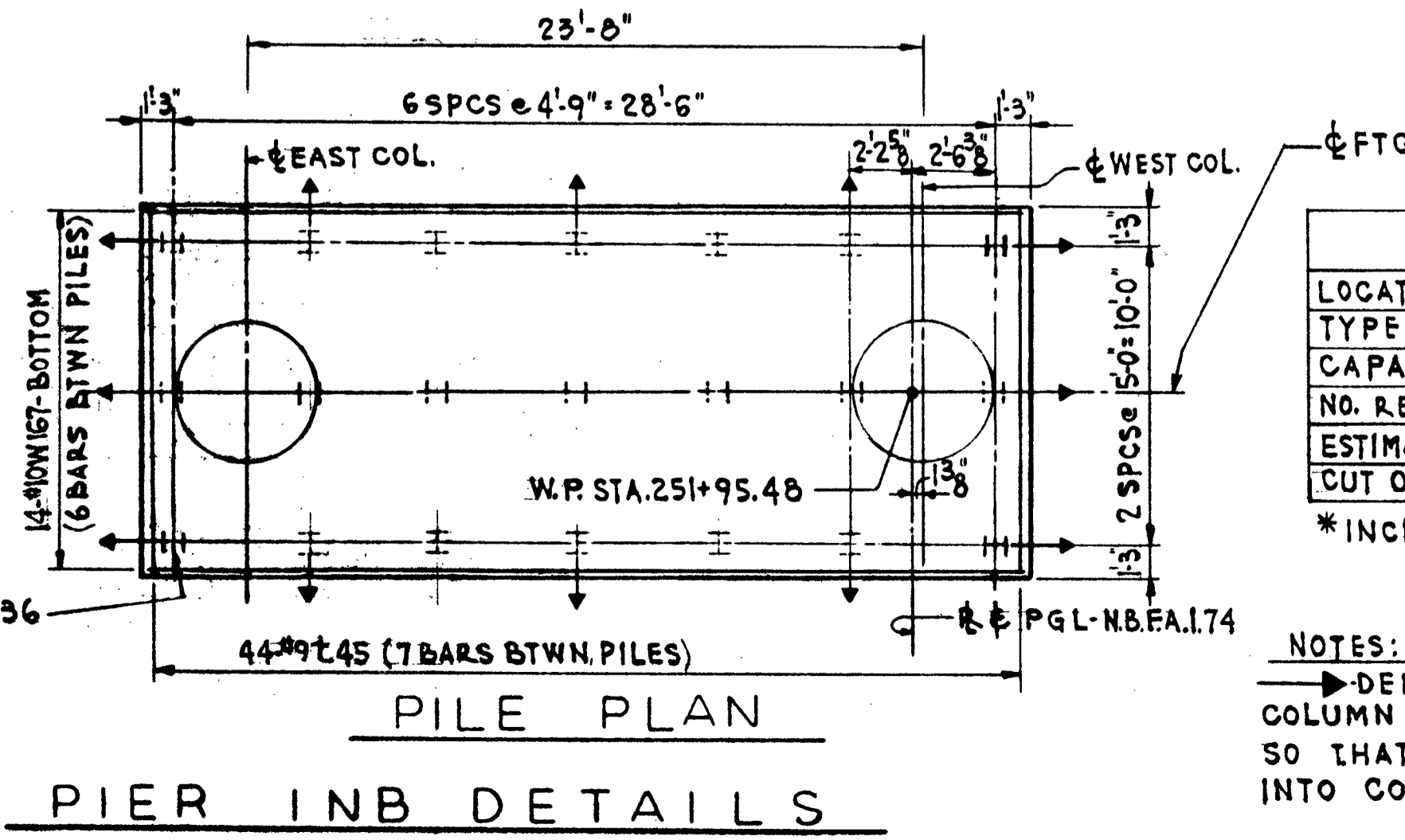
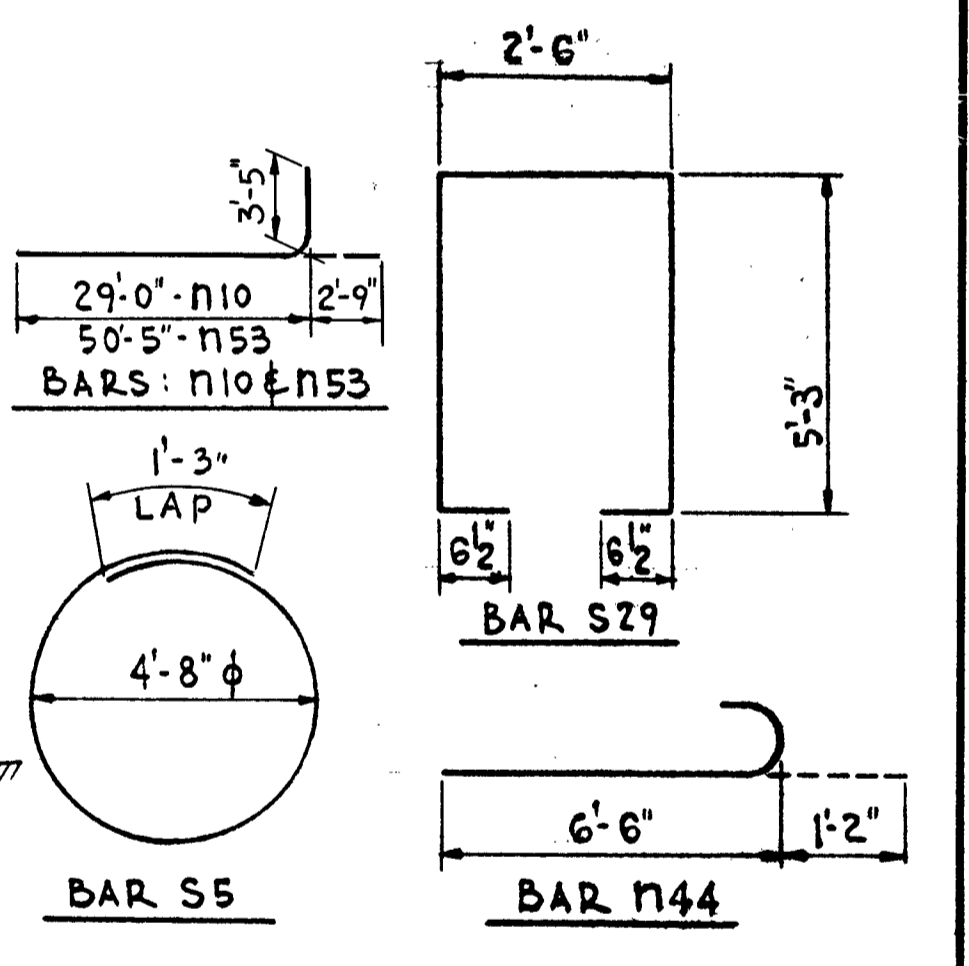
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E.H. FUKUDA  
DRAWN BY G.P. ALLEMAN  
CHECKED BY Robert D. Kennedy  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN



REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
N44	54	11	7-8	[W] [U] [L] [I] [D] [W] [O]
S5	91	5	16-0	
S19	38	3	9-10	
T45	44	9	12-2	
V224	18	11	24-0	
V240	18	11	42-3	
V241	18	11	42-9	
W16	11	11	12-8	
W82	11	11	24-6	
W167	14	10	30-8	
N10	9	18	31-9	
N45	18	11	7-8	
N53	9	18	53-2	
S5	99	5	16-0	
S19	8	3	9-10	
T30	26	6	11-8	
T79	15	7	11-8	
V242	18	11	46-9	
W168	20	10	25-8	
W169	16	9	14-8	



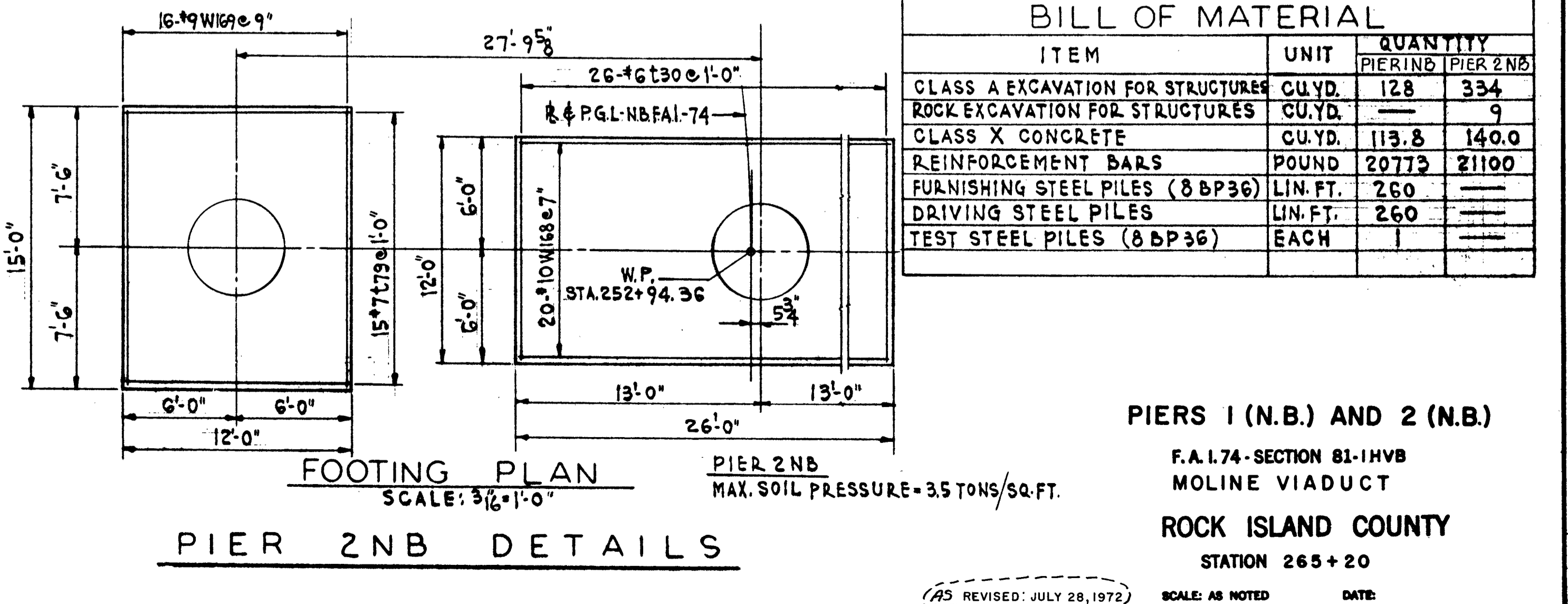
**NOTES:**  
REFER TO DWG. S-11 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.  
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR. FOR ANCHOR BOLT WELL DETAILS, SEE DWG. S-18.



PILE DATA	
LOCATION	PIER 1NB
TYPE	8BP 36
CAPACITY	DRIVE TO REFUSAL
NO. REQUIRED	21*
ESTIMATED LENGTH	13 FT.
CUT OFF ELEVATION	561.0

\*INCLUDES 1 TEST PILE.

**NOTES:**  
- DENOTES 2:12 BATTER PILES.  
COLUMN DOWEL BARS TO BE ARRANGED SO THAT TOP RIB STEEL CAN BE TAKEN INTO COLUMN



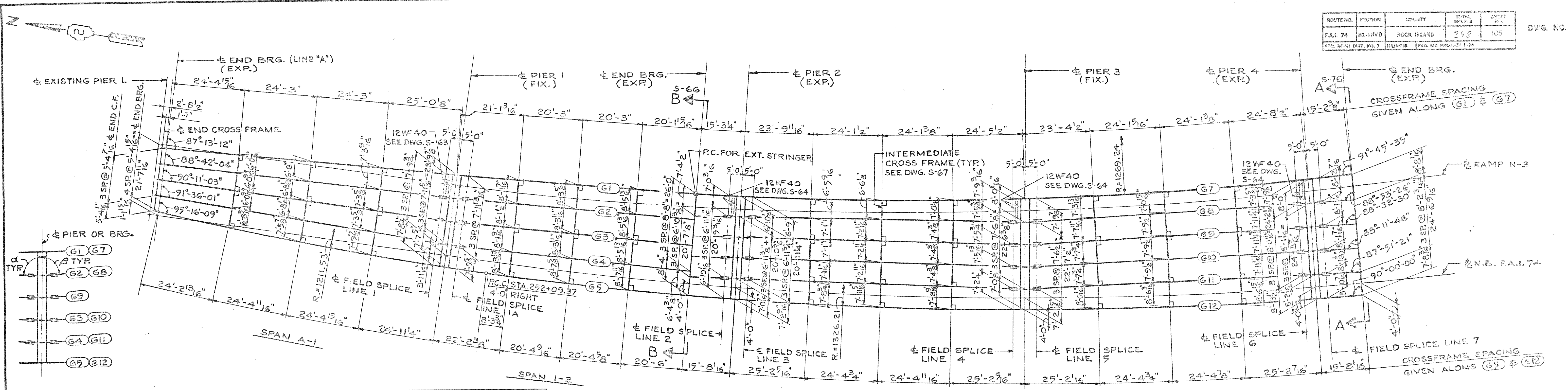
BILL OF MATERIAL			
ITEM	UNIT	QUANTITY	
		PIER 1NB	PIER 2NB
CLASS A EXCAVATION FOR STRUCTURES	CU.YD.	128	334
ROCK EXCAVATION FOR STRUCTURES	CU.YD.	---	9
CLASS X CONCRETE	CU.YD.	113.8	140.0
REINFORCEMENT BARS	POUND	20773	21100
FURNISHING STEEL PILES (8BP 36)	LIN. FT.	260	---
DRIVING STEEL PILES	LIN. FT.	260	---
TEST STEEL PILES (8BP 36)	EACH	1	---

**PIERS 1 (N.B.) AND 2 (N.B.)**  
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E.H. FUKUDA  
DRAWN BY G.P. ALLEMAN  
CHECKED Richard D. Komaty  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN





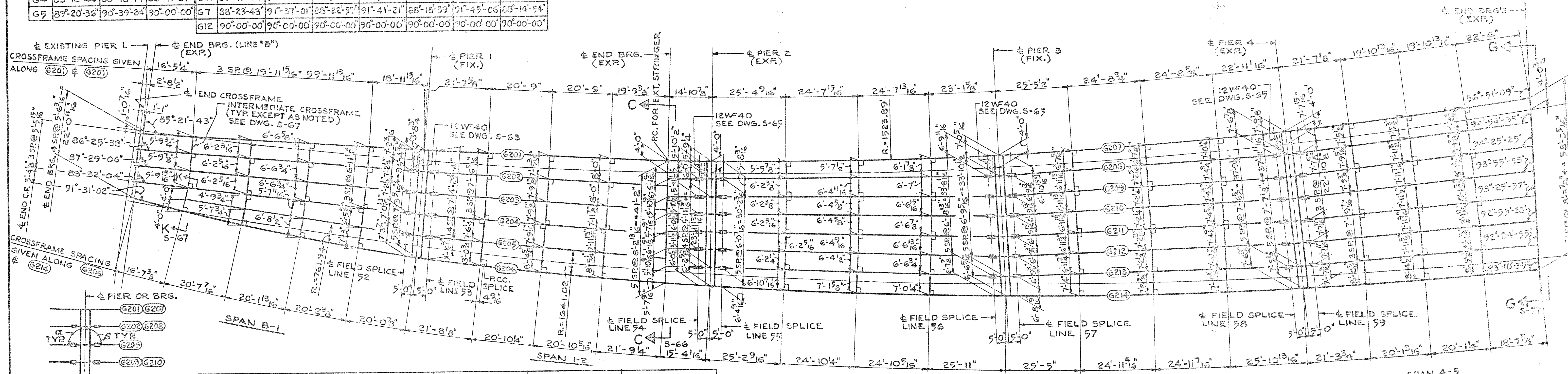


PIER 1 N.B.	BRG. SPAN 1-2 N.B.		PIER 2 N.B.	PIER 3 N.B.		PIER 4 N.B.					
	α	β		α	β	α	β				
G1	92°45'-33"	86°46'-43"	90°12'-56"	G8	86°12'-12"	93°07'-10"	86°52'-58"	85°50'-07"	86°08'-51"	89°34'-03"	90°25'-57"
G2	91°16'-40"	87°17'-32"	89°42'-07"	G9	86°32'-15"	92°47'-07"	87°12'-51"	85°30'-03"	86°29'-47"	89°13'-07"	90°46'-53"
G3	89°47'-41"	87°45'-03"	89°11'-37"	G10	86°52'-06"	92°27'-16"	87°32'-44"	83°10'-12"	86°50'-29"	85°52'-25"	91°07'-35"
G4	83°18'-44"	85°18'-14"	88°41'-24"	G11	87°11'-44"	92°07'-35"	87°52'-22"	87°50'-34"	87°10'-56"	88°31'-58"	91°28'-02"
G5	89°20'-36"	90°39'-24"	90°00'-00"	G7	88°23'-43"	91°37'-01"	88°22'-59"	91°41'-21"	88°18'-39"	91°45'-06"	83°14'-54"
	G12	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"

FRAMING PLAN UNIT (A) N.B.  
SCALE: 1/8" = 1'-0"

NOTES:  
GIRDER NUMBERS (G6) & (G13) HAVE BEEN OMITTED.  
SEE DWG. S-66 FOR SECTIONS B-B & C-C.

NOTE:  
GIRDER INDICATES 90°  
CROSSFRAME



PIER 1 S.B.	BRG. SPAN 1-2 S.B.		PIER 2 S.B.	PIER 3 S.B.		PIER 4 S.B.					
	α	β		α	β	α	β				
G201	90°44'-28"	85°15'-19"	88°37'-37"	G207	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	
G202	90°00'-33"	83°54'-43"	87°53'-08"	G208	85°19'-53"	91°03'-24"	88°53'-36"	87°25'-43"	88°35'-24"	87°43'-55"	88°47'-19"
G203	88°57'-05"	89°33'-59"	87°19'-03"	G209	83°46'-51"	90°37'-31"	89°20'-29"	86°58'-50"	89°03'-47"	87°15'-32"	89°16'-28"
G204	87°54'-07"	90°12'-23"	82°43'-23"	G210	89°13'-31"	90°12'-51"	89°47'-09"	86°32'-10"	89°31'-54"	86°47'-24"	89°46'-00"
G205	85°31'-52"	90°50'-49"	86°02'-07"	G211	90°37'-36"	88°43'-44"	90°13'-35"	86°05'-44"	89°59'-45"	86°19'-33"	90°15'-56"
G206	86°14'-45"	93°44'-19"	89°32'-35"	G212	90°06'-10"	89°23'-12"	90°39'-48"	85°39'-31"	90°27'-20"	85°51'-59"	90°46'-16"
				G213	90°32'-09"	83°54'-14"	91°05'-47"	85°12'-33"	90°54'-29"	87°24'-40"	91°16'-59"
				G214	90°27'-22"	85°58'-53"	93°01'-07"	86°49'-27"	93°10'-35"	86°49'-48"	93°10'-12"

FRAMING PLAN UNIT (A) S.B.  
SCALE: 1/8" = 1'-0"

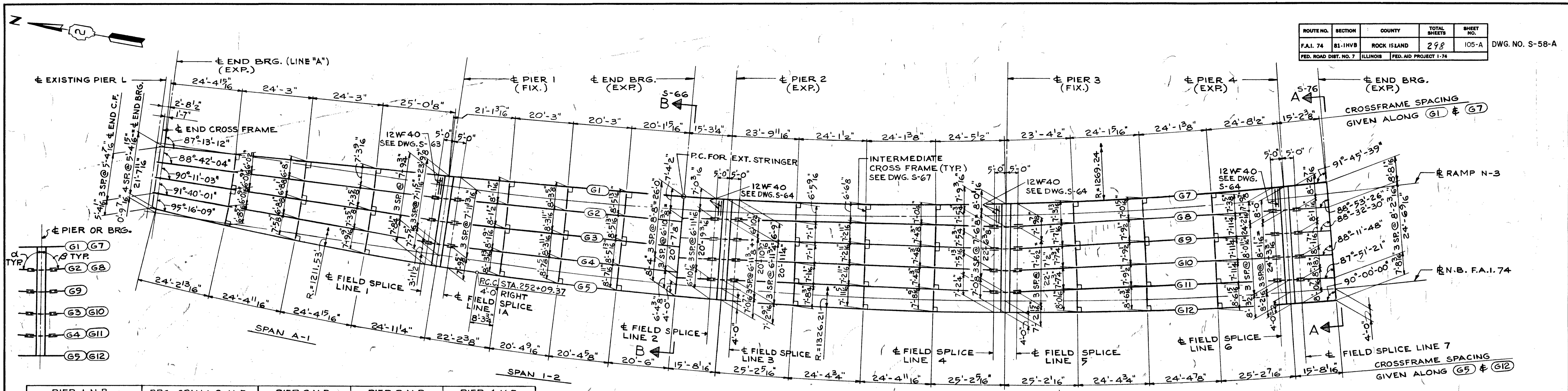
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
3/4" x 5" STUD	EACH	8,115
SHEAR CONNECTORS		

NOTES:  
WORK THIS DWG. WITH DWG'S S-59 THRU S-68, S-76 & S-77.  
ALL DIMENSIONS ARE GIVEN ALONG  $\epsilon$  WEB ON A HORIZONTAL PLANE AT 50° F. TEMP.  
ALL ANGLES SHOWN MEASURED TO CURVED GIRDERS ARE MEASURED TO A LINE TANGENT TO  $\epsilon$  WEB OF CURVED GIRDER AT POINT INDICATED.  
TYPES OF BEARINGS INDICATED REFER TO MOVEMENT IN LONGITUDINAL DIRECTION ONLY. SEE BEARING DWG'S. FOR ADDITIONAL DATA.  
FOR HORIZONTAL CURVE DATA SEE DWG. S-1.

FRAMING PLAN UNIT "A" - MAINLINE  
F.A.I. 74 - SECTION 81-11V3  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 263+20  
SCALE: AS SHOWN

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY R.K. MILLER  
CHECKED BY S. MARTINE  
IN CHARGE S. MARTINE  
APPROVED V.G. HOEN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	DWG. NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	105-A	S-58-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74		

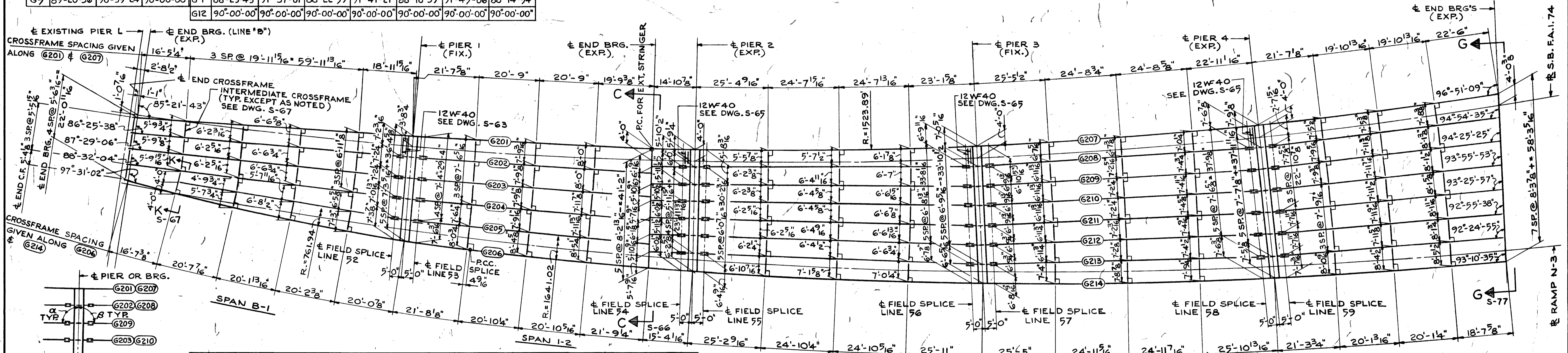


PIER I N.B.	BRG. SPAN 1-2 N.B.		PIER 2 N.B.		PIER 3 N.B.		PIER 4 N.B.				
	GIR.	α	GIR.	β	α	β	α	β			
G1	92°45'-33"	86°46'-43"	90°12'-56"	G8	86°12'-12"	93°07'-10"	86°52'-50"	88°50'-07"	86°08'-51"	89°34'-03"	90°25'-57"
G2	91°16'-40"	87°17'-32"	89°42'-07"	G9	86°32'-15"	92°47'-07"	87°12'-53"	88°30'-03"	86°29'-47"	89°13'-07"	90°46'-53"
G3	89°47'-41"	87°48'-03"	89°11'-37"	G10	86°52'-06"	92°27'-16"	87°32'-44"	88°10'-12"	86°50'-29"	88°52'-25"	91°07'-35"
G4	88°18'-44"	88°18'-14"	88°41'-24"	G11	87°11'-44"	92°07'-38"	87°52'-22"	87°50'-34"	87°10'-56"	88°31'-58"	91°28'-02"
G5	89°20'-36"	90°39'-24"	90°00'-00"	G7	88°23'-43"	91°37'-01"	88°22'-59"	91°41'-21"	88°18'-39"	91°45'-06"	88°14'-54"
			G12	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"

FRAMING PLAN UNIT (A) N.B.  
SCALE: 1/16" = 1'-0"

NOTES:  
GIRDER NUMBERS (G6) & (G3) HAVE BEEN OMITTED.  
SEE DWG. S-66 FOR SECTIONS B-B & C-C.

NOTE:  
GIRDER INDICATES 90°  
CROSSFRAME



PIER I S.B.	BRG. SPAN 1-2 S.B.		PIER 2 S.B.		PIER 3 S.B.		PIER 4 S.B.				
	GIR.	α	GIR.	β	α	β	α	β			
G201	90°44'-28"	88°15'-19"	88°37'-37"	G207	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"	90°00'-00"
G202	90°00'-33"	88°54'-48"	87°58'-08"	G208	88°19'-58"	91°06'-24"	88°53'-36"	87°25'-43"	88°35'-24"	87°43'-55"	88°47'-19"
G203	88°57'-05"	89°33'-53"	87°19'-03"	G209	88°46'-51"	90°39'-31"	89°20'-29"	86°58'-50"	89°03'-47"	87°15'-32"	89°16'-28"
G204	87°54'-07"	90°12'-33"	86°40'-23"	G210	89°13'-51"	90°12'-51"	89°47'-09"	86°32'-10"	89°31'-54"	86°47'-24"	89°46'-00"
G205	85°31'-52"	90°50'-49"	86°02'-07"	G211	90°37'-38"	88°48'-44"	90°13'-35"	86°05'-44"	89°59'-45"	86°19'-33"	90°15'-56"
G206	86°14'-45"	93°44'-15"	89°32'-38"	G212	90°06'-10"	89°20'-12"	90°39'-48"	85°39'-31"	90°27'-20"	85°51'-59"	90°46'-16"
				G213	90°32'-09"	88°54'-14"	91°05'-47"	85°13'-33"	90°54'-39"	89°24'-40"	91°16'-59"
				G214	90°27'-22"	86°58'-53"	93°01'-07"	86°49'-27"	93°10'-33"	86°49'-48"	93°10'-12"

FRAMING PLAN UNIT (A) S.B.  
SCALE: 1/16" = 1'-0"

BILL OF MATERIAL

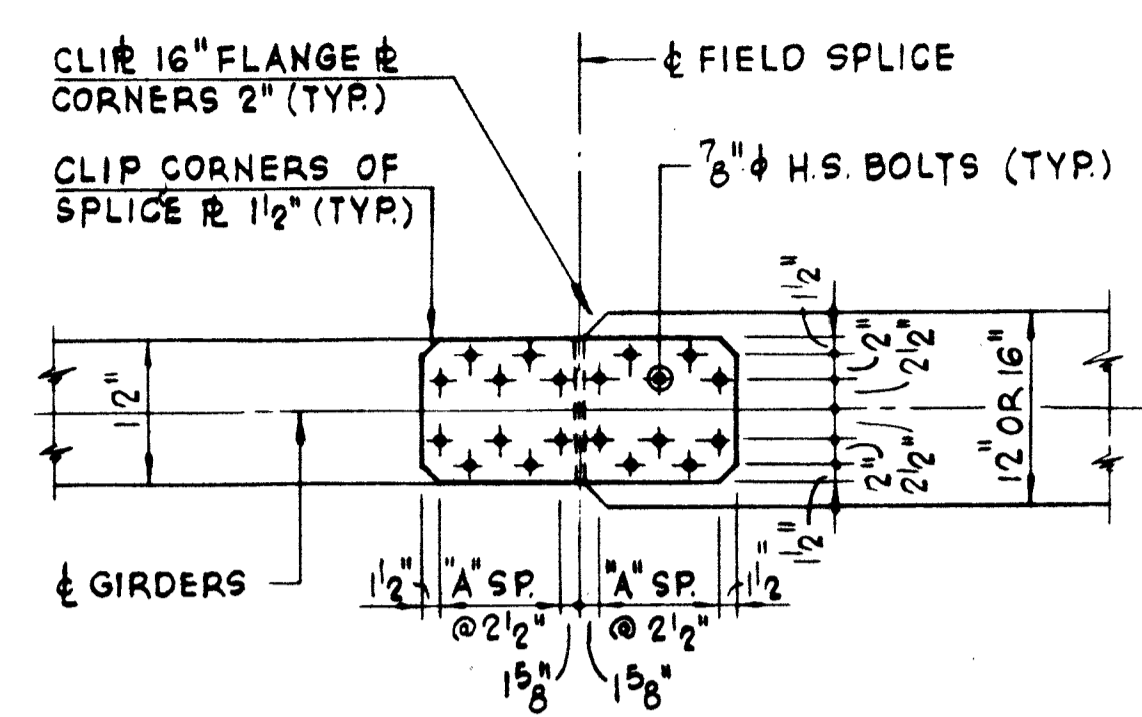
ITEM	UNIT	QUANTITY
3/4" x 5" STUD	EACH	8,115
SHEAR CONNECTORS	EACH	8,115

NOTES:  
WORK THIS DWG. WITH DWG'S S-59 THRU S-68, S-76 & S-77.  
ALL DIMENSIONS ARE GIVEN ALONG & WEB ON A HORIZONTAL PLANE AT 50° F. TEMP.  
ALL ANGLES SHOWN MEASURED TO CURVED GIRDERS ARE MEASURED TO A LINE TANGENT TO & WEB OF CURVED GIRDER AT POINT INDICATED.  
TYPES OF BEARINGS INDICATED REFER TO MOVEMENT IN LONGITUDINAL DIRECTION ONLY. SEE BEARING DWG'S. FOR ADDITIONAL DATA.  
FOR HORIZONTAL CURVE DATA SEE DWG. S-1.

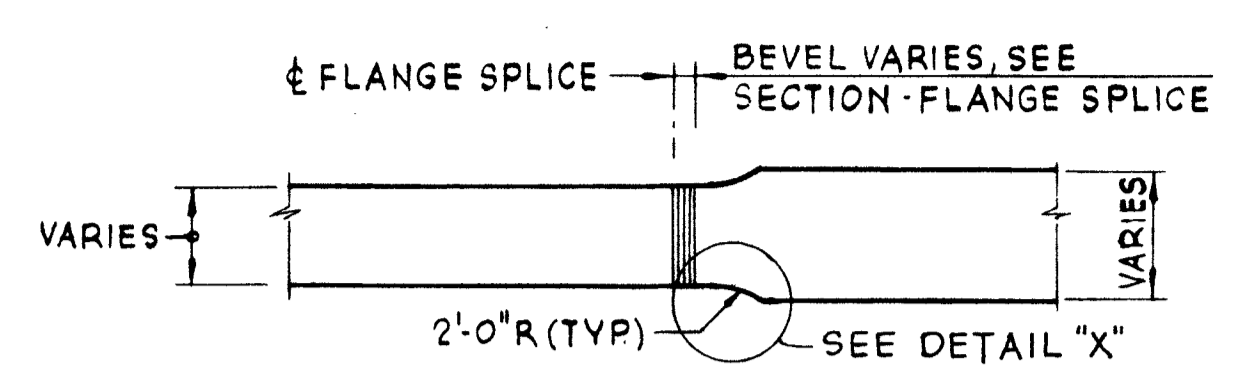
FRAMING PLAN UNIT "A" - MAINLINE  
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20  
SCALE: AS NOTED  
DATE: (REVISED) JULY 28, 1972

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY R.K. MILLER  
CHECKED BY R.K. KOESTER  
IN CHARGE S. MARTINS  
APPROVED W.G. HORN

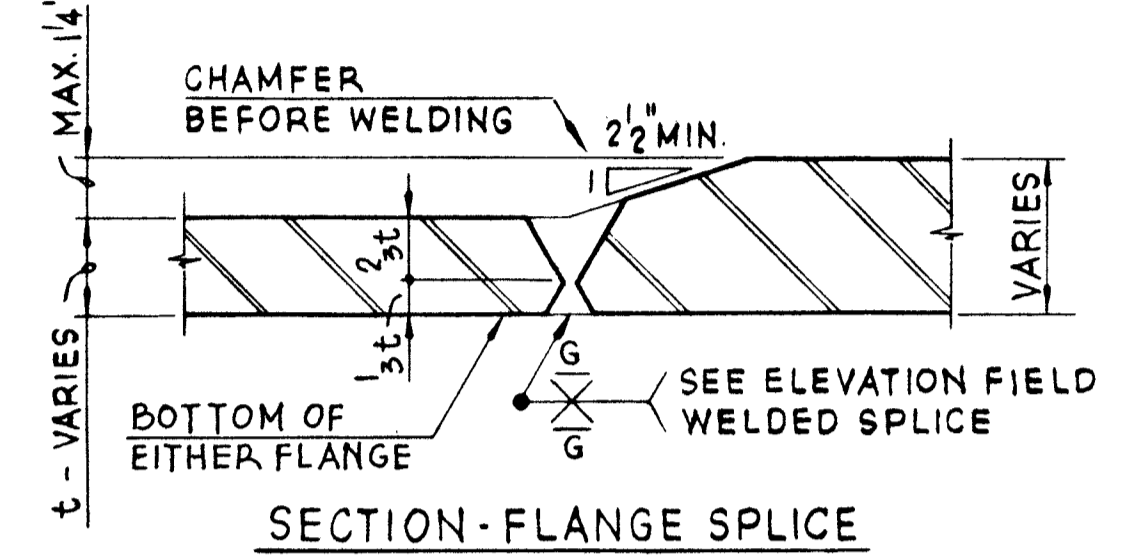
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	298	114
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT 1-74



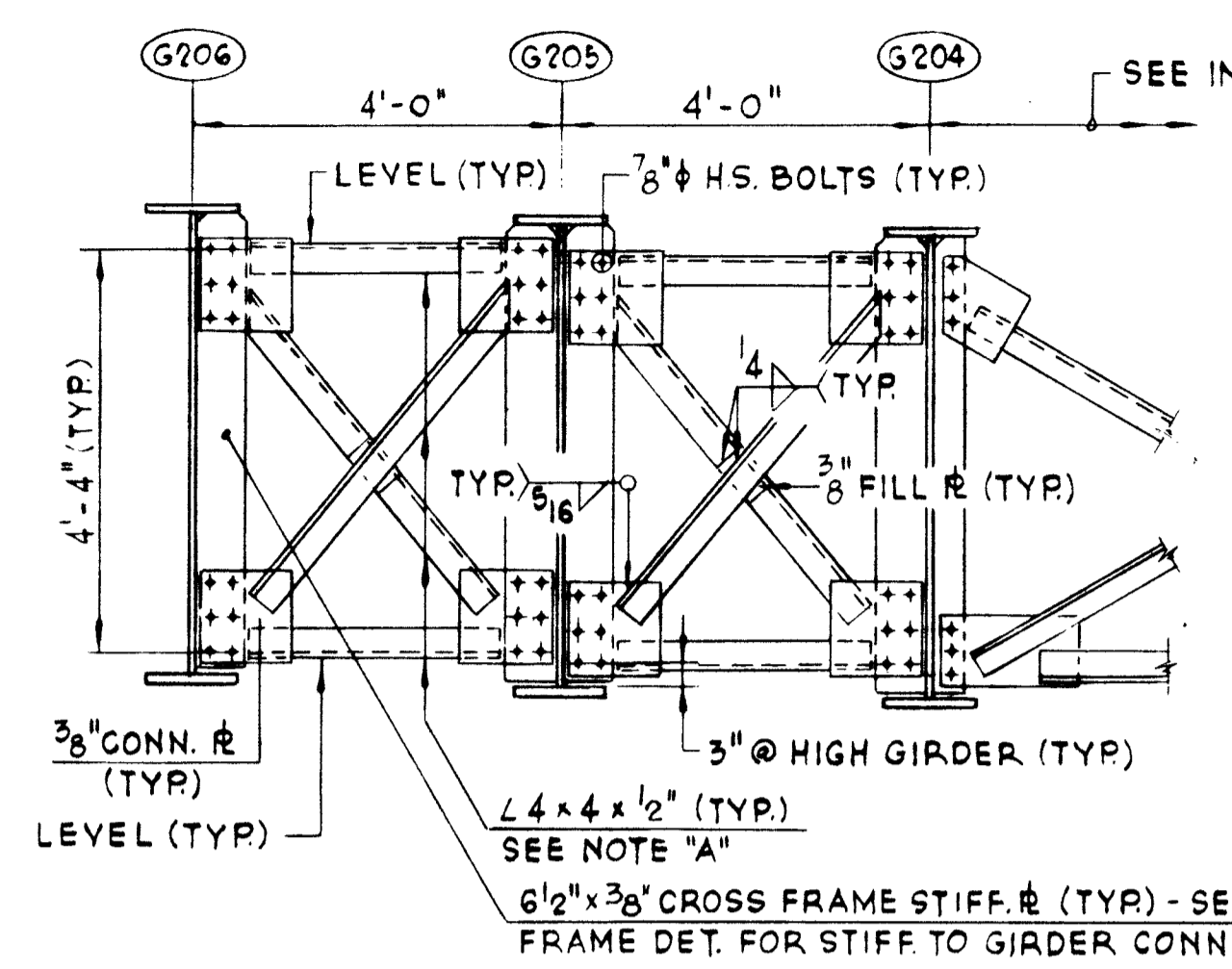
PLAN - FLANGE SPLICES  
(AT SPLICE LINES 2, 54 & 55)



PLAN - FLANGE SPLICE

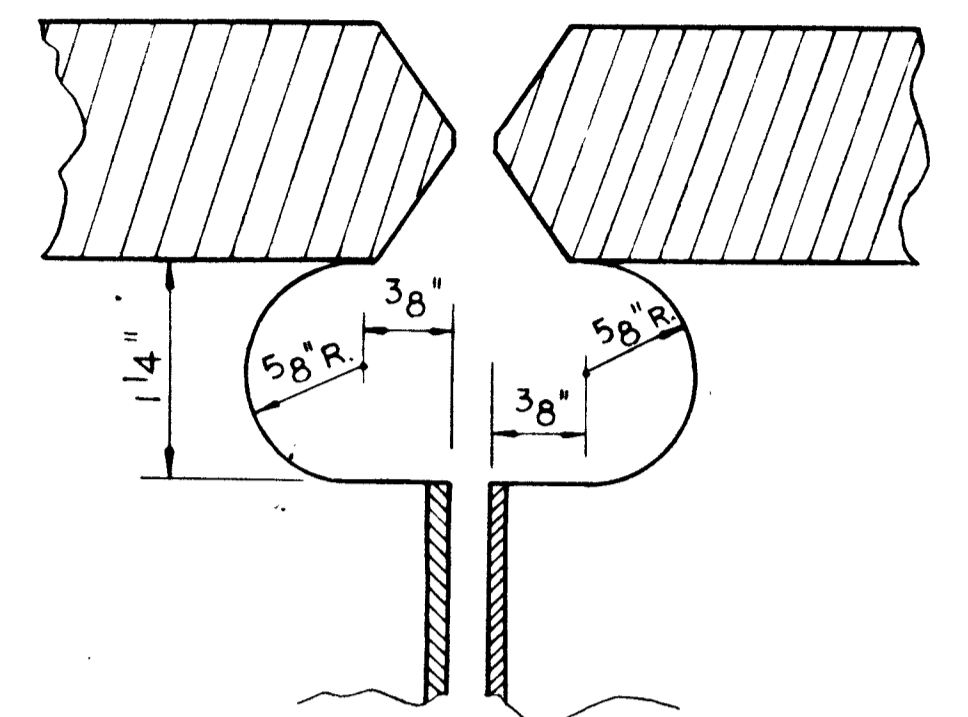


SECTION - FLANGE SPLICE



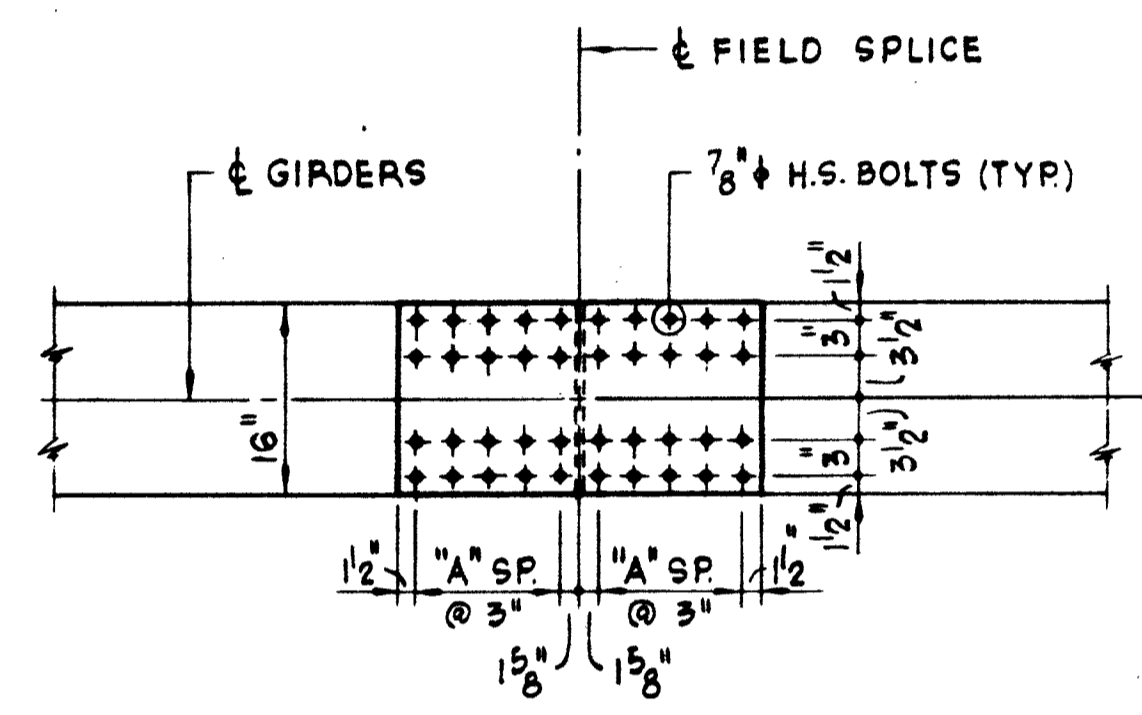
SECTION K-K (SEE DWG. S-58)  
SCALE: 1/2" = 1'-0"

NOTE "A"  
CUT ANGLE ENDS @ 45° AS SHOWN TO FACILITATE ECONOMICAL USE OF CONN. PLS PROVIDE A MIN. OF 5/16" FILLET WELD @ EACH CONNECTION, EXCEPT @ FILL PLS



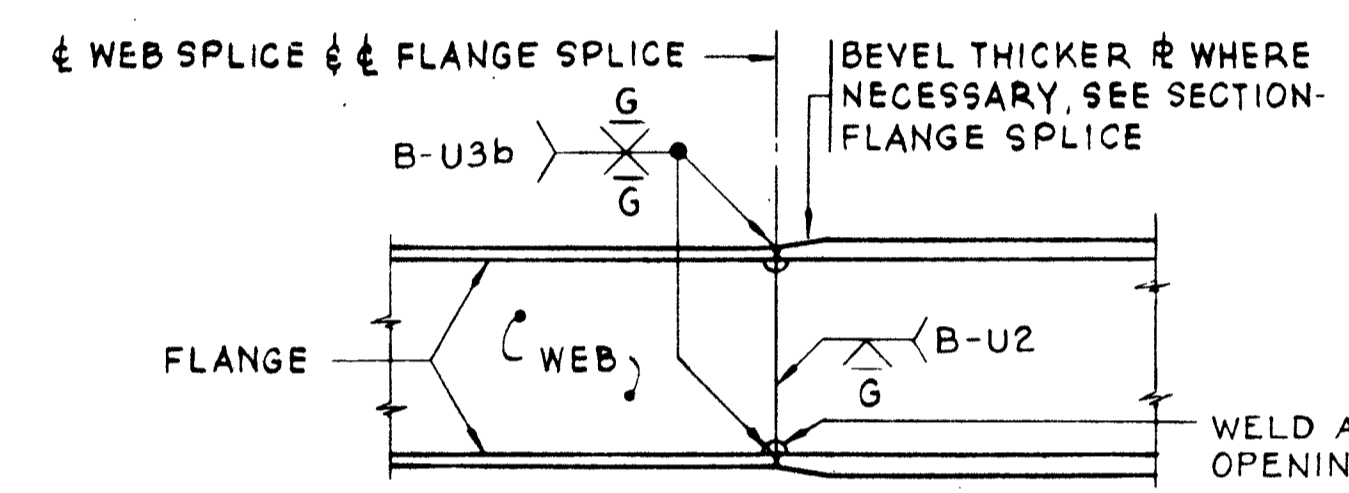
WELD ACCESS OPENING DETAIL

NO SCALE  
(TYPICAL)



PLAN - FLANGE SPLICES

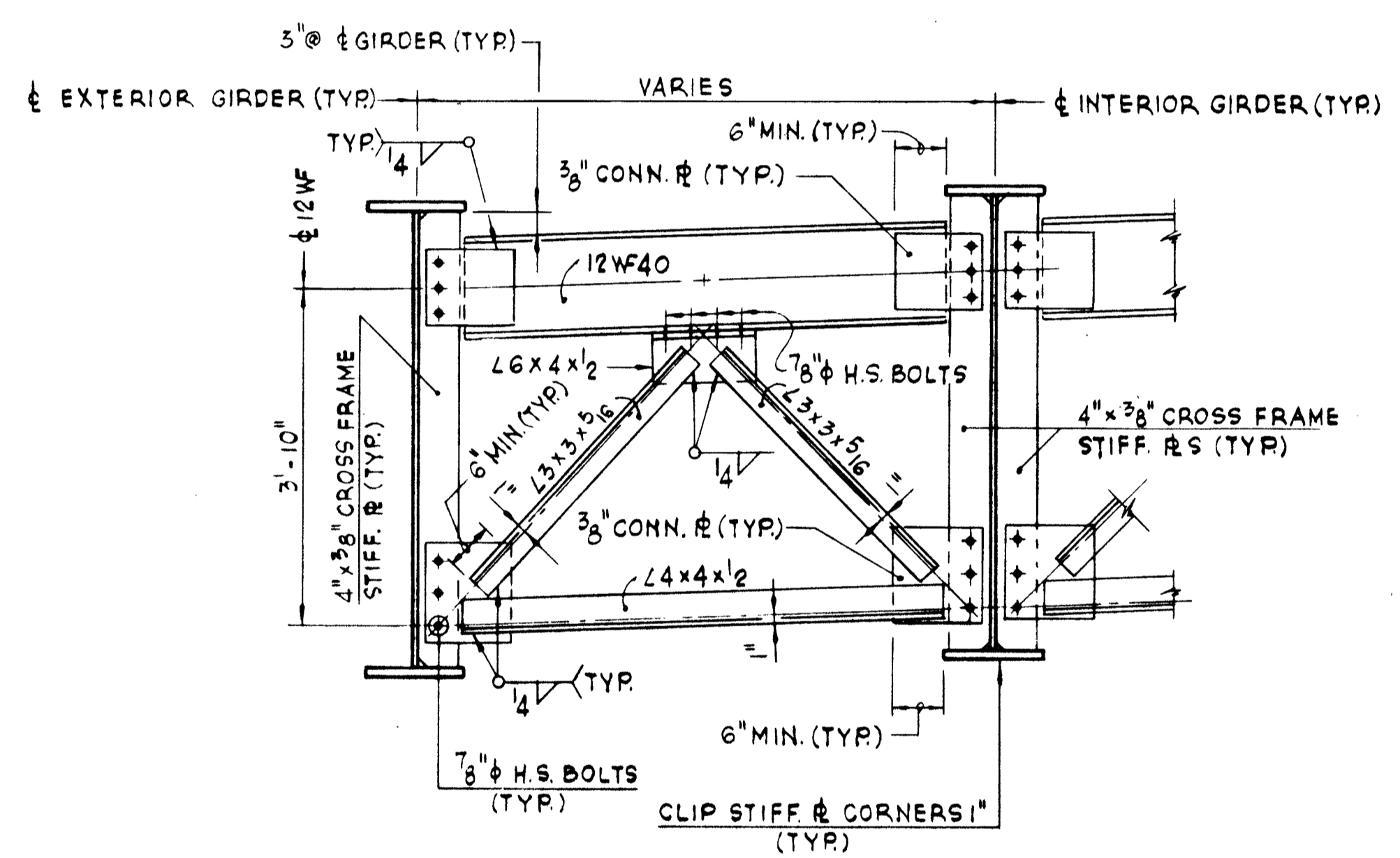
ALL SPLICE LINES IN UNIT "A" EXCEPT 2, 54 & 55



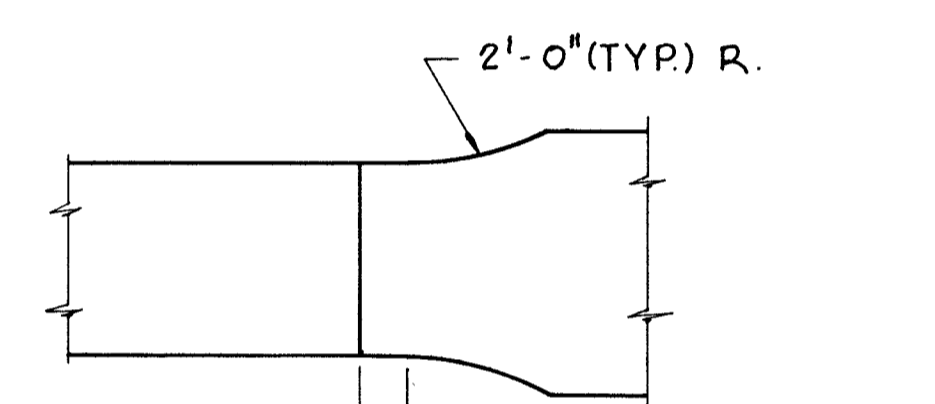
ELEVATION - FIELD WELDED SPLICE

FIELD WELDED SPLICE DETAILS

NO SCALE

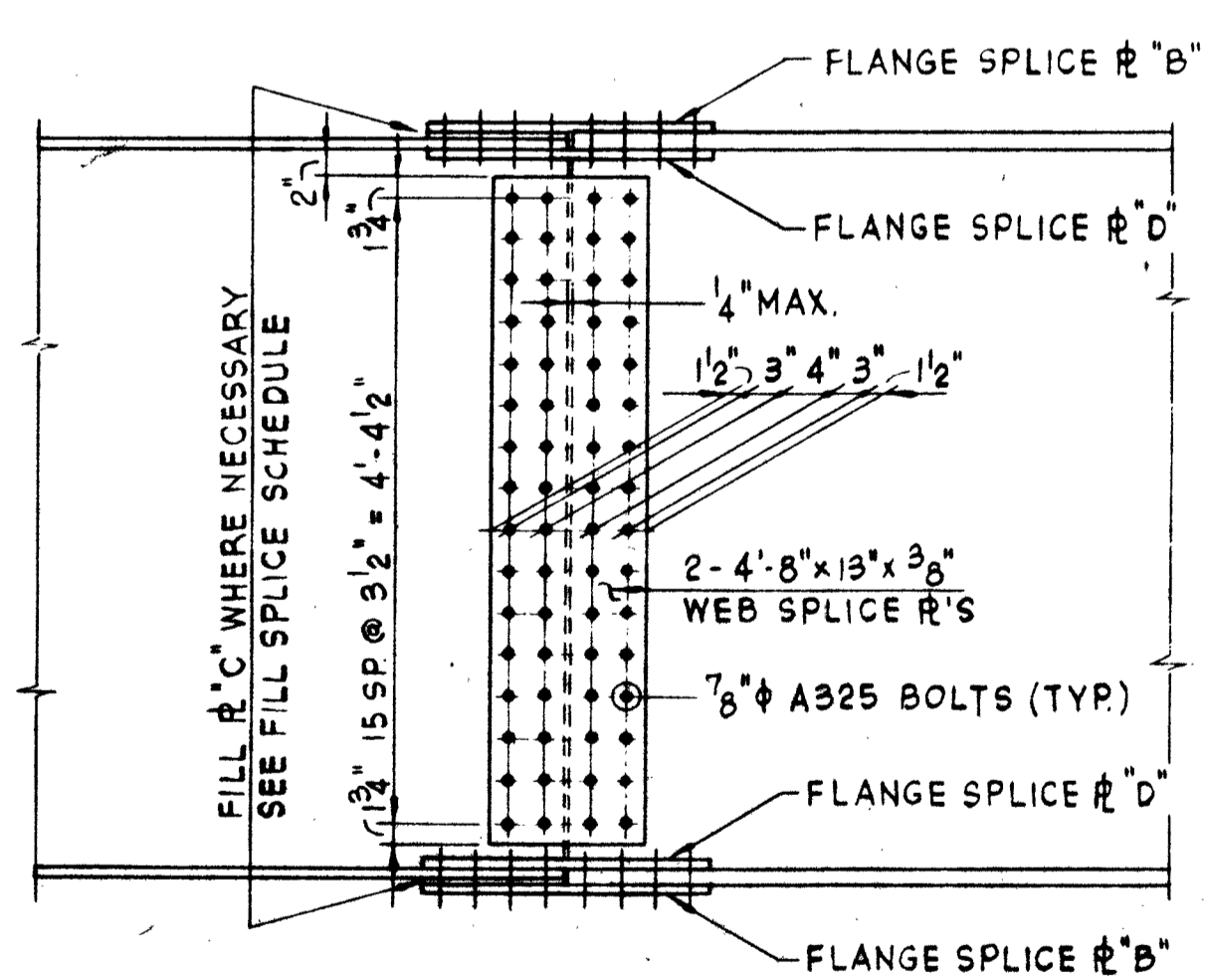


TYP. END CROSS FRAME  
AT PIER A & PIER B - NO SCALE



DETAIL "X"  
NO SCALE

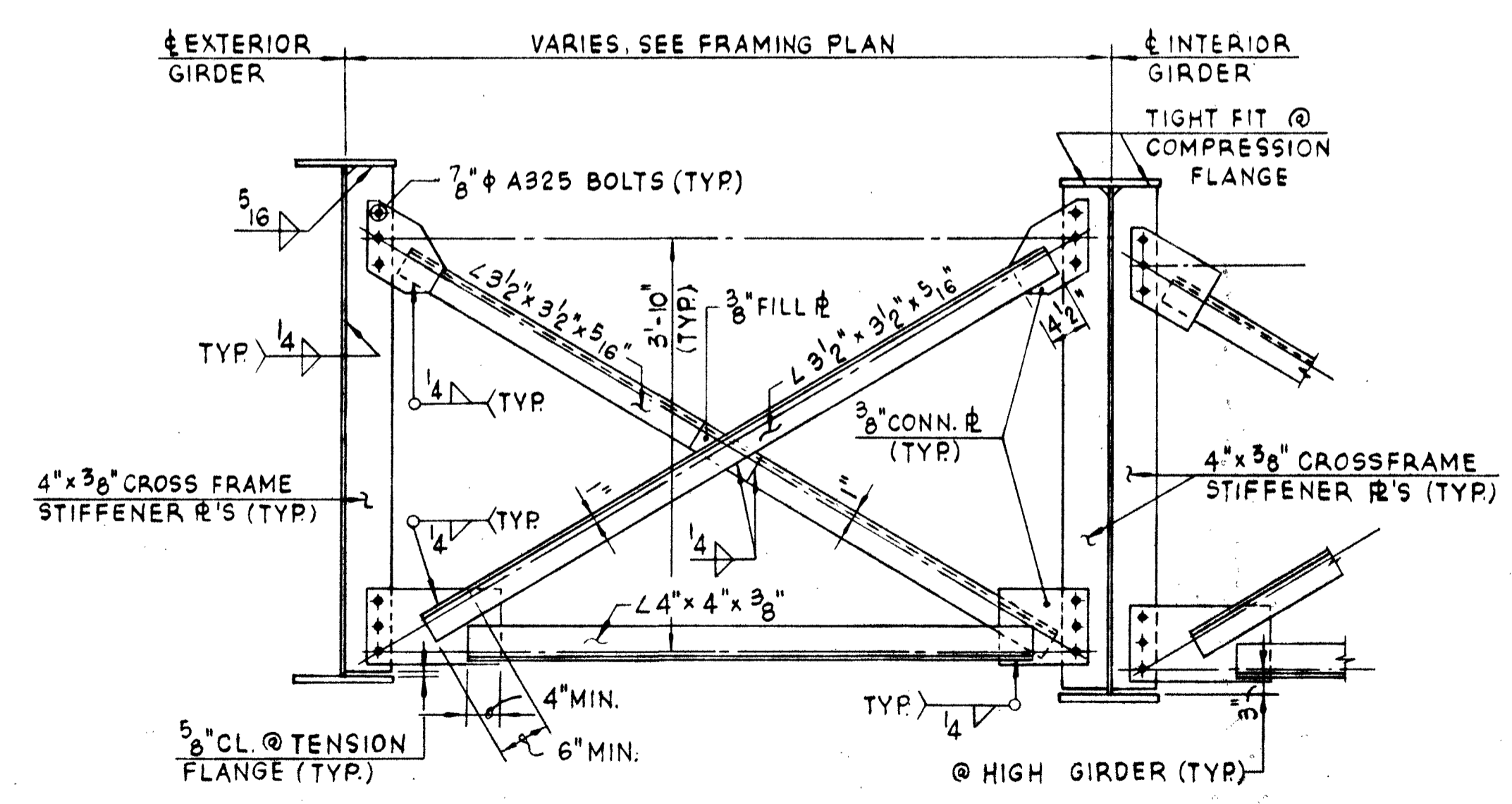
NOTES  
WORK THIS DWG. WITH DWGS. S-58 THRU S-68



ELEVATION - BOLTED FIELD SPLICE

BOLTED FIELD SPLICE DETAILS

NO SCALE



INTERMEDIATE CROSS FRAME DETAIL

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

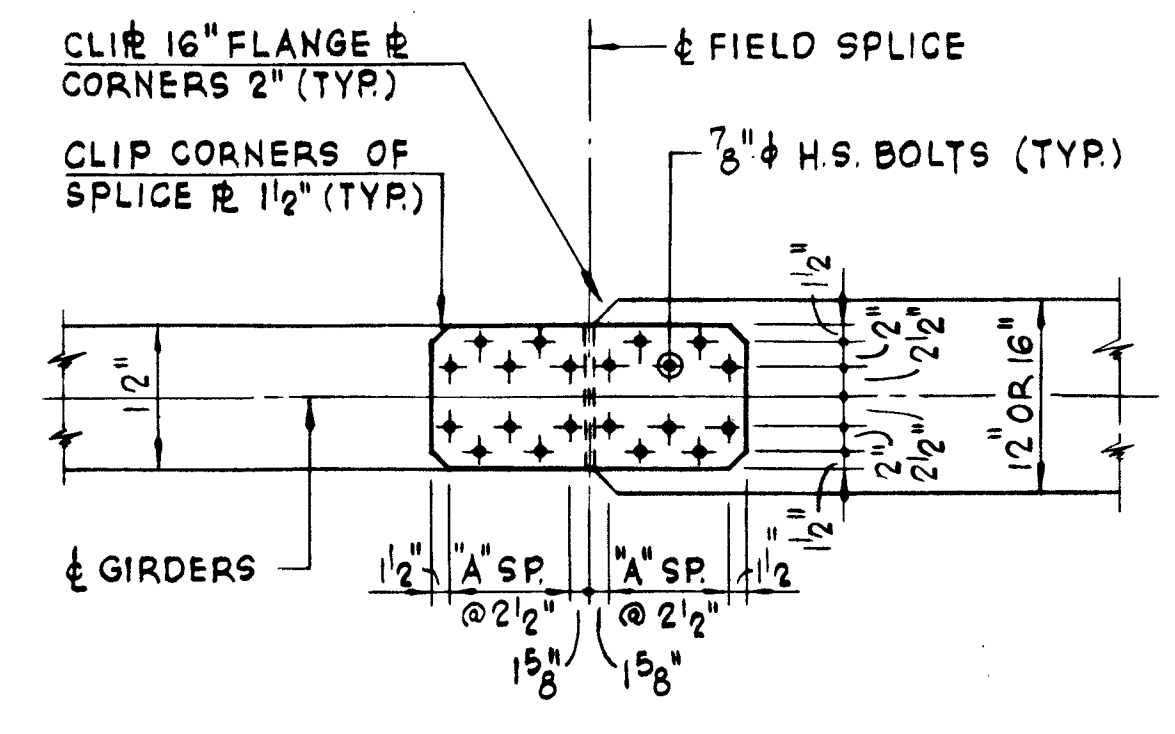
FIELD SPLICE SCHEDULE					
GIRDERS	SP. LINE	A	B	C	D
G2 THRU G4	1 & 1A	4	16" x 3/4" x 2'-6 1/4"	16" x 1/2" x 1'-3"	2 RS-6" x 3/4" x 2'-6 1/4"
G8 THRU G11	2	4	12" x 1/2" x 2'-2 1/4"	---	2 RS-5" x 3/8" x 2'-2 1/4"
G8 THRU G11	3	3	16" x 1/2" x 2'-0 1/4"	---	2 RS-6" x 1/2" x 2'-0 1/4"
G8 THRU G11	4 & 5	4	16" x 3/4" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 3/4" x 2'-6 1/4"
G8 THRU G11	6	3	16" x 5/8" x 2'-0 1/4"	---	2 RS-6" x 5/8" x 2'-0 1/4"
G8 THRU G11	7	2	16" x 1/2" x 1'-6 1/4"	16" x 1/4" x 0'-9"	2 RS-6" x 1/2" x 1'-6 1/4"
G202 THRU G205	52 & 53	4	16" x 5/8" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 5/8" x 2'-6 1/4"
G208 THRU G213	54 & 55	4	12" x 1/2" x 2'-2 1/4"	---	2 RS-5" x 1/2" x 2'-2 1/4"
G208 THRU G213	56 & 57	4	16" x 5/8" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 5/8" x 2'-6 1/4"
G208 THRU G213	58 & 59	3	16" x 5/8" x 2'-0 1/4"	16" x 1/8" x 1'-0"	2 RS-6" x 1/2" x 2'-0 1/4"

MISCELLANEOUS  
STEEL DETAILS, UNIT "A"  
F.A.I. 74-SECTION 81-1HVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20

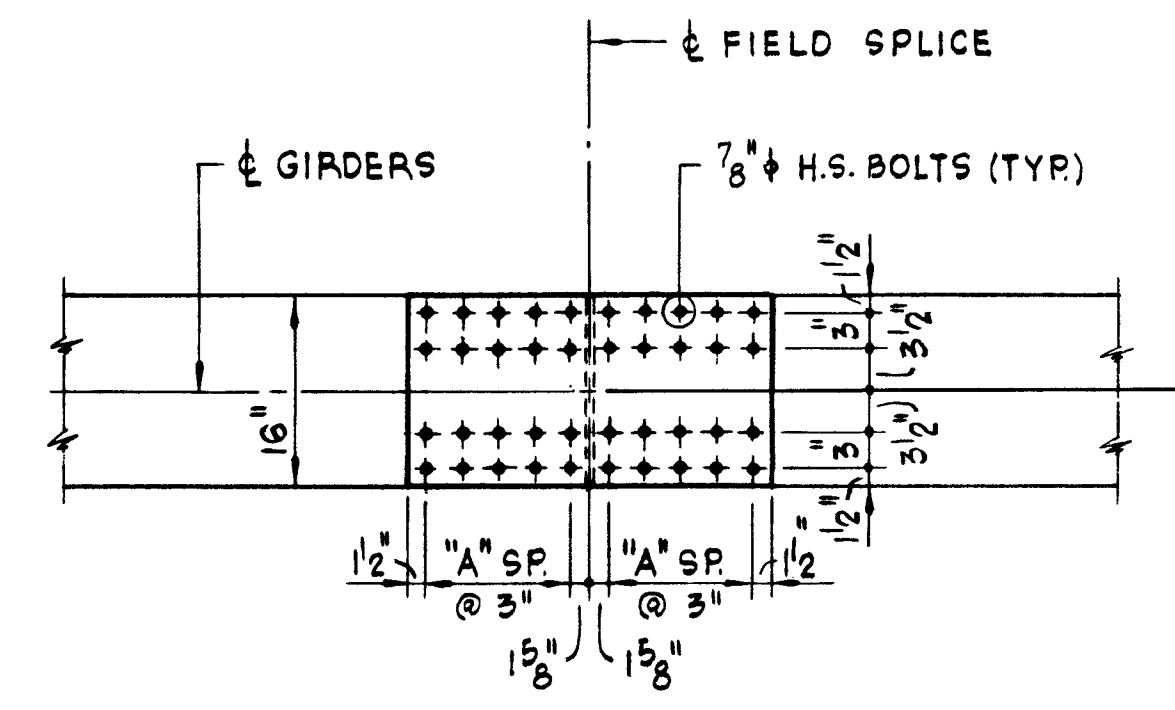
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. D. KOESTER  
DRAWN BY J. N. LESLIE  
CHECKED *[Signature]*  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

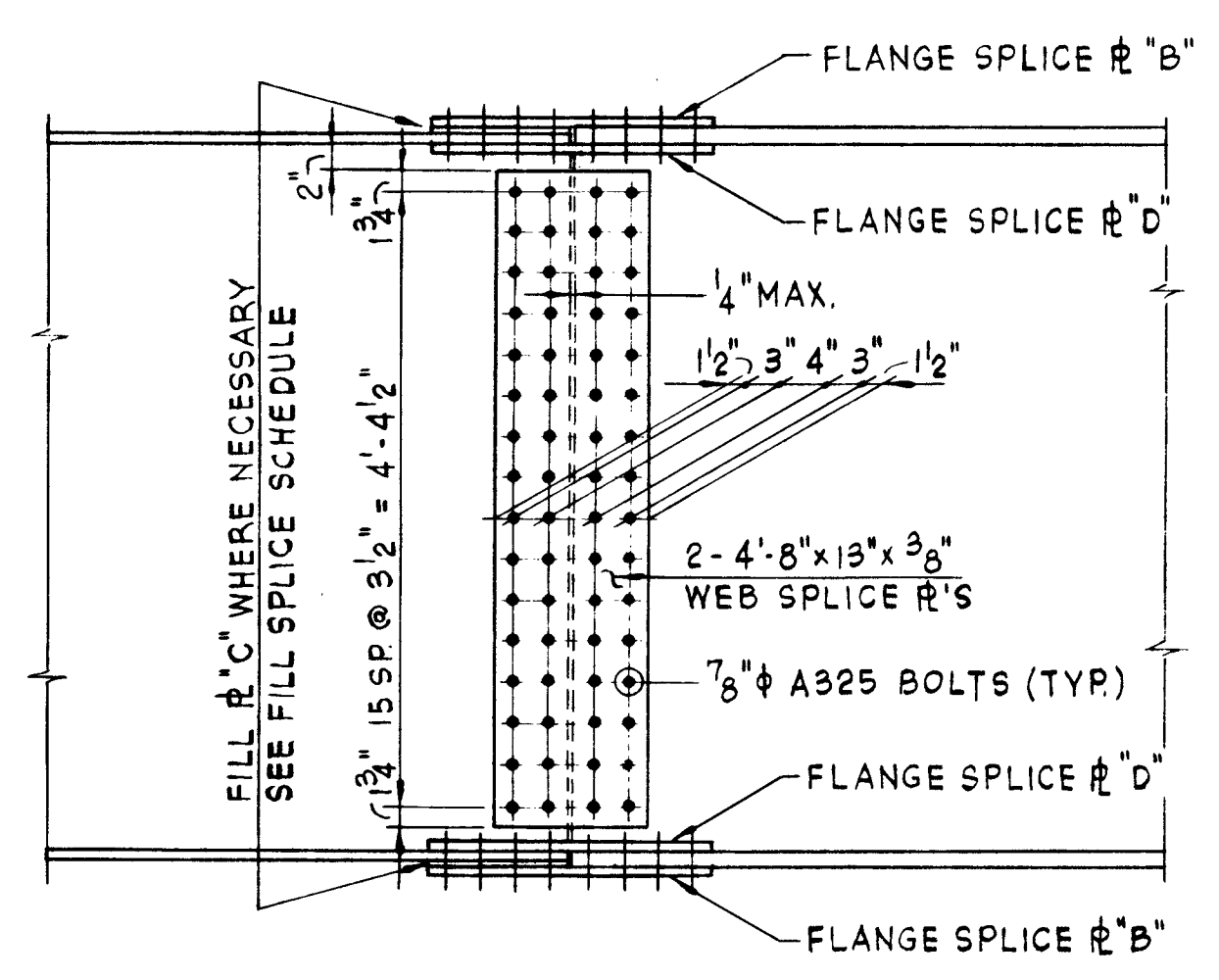
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HV8	ROCK ISLAND	298	114-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	



PLAN - FLANGE SPLICES  
(AT SPLICE LINES 2, 54 & 55)

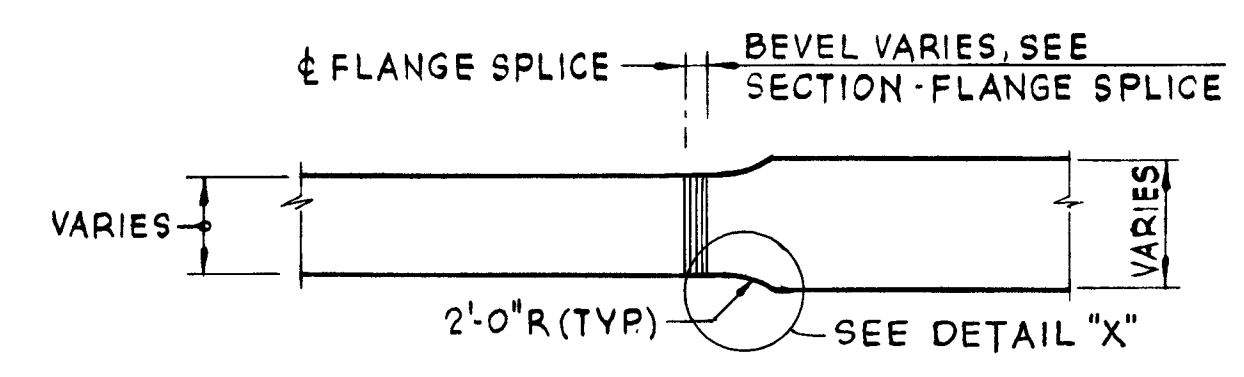


PLAN - FLANGE SPLICES  
ALL SPLICE LINES IN UNIT "A" EXCEPT 2, 54 & 55

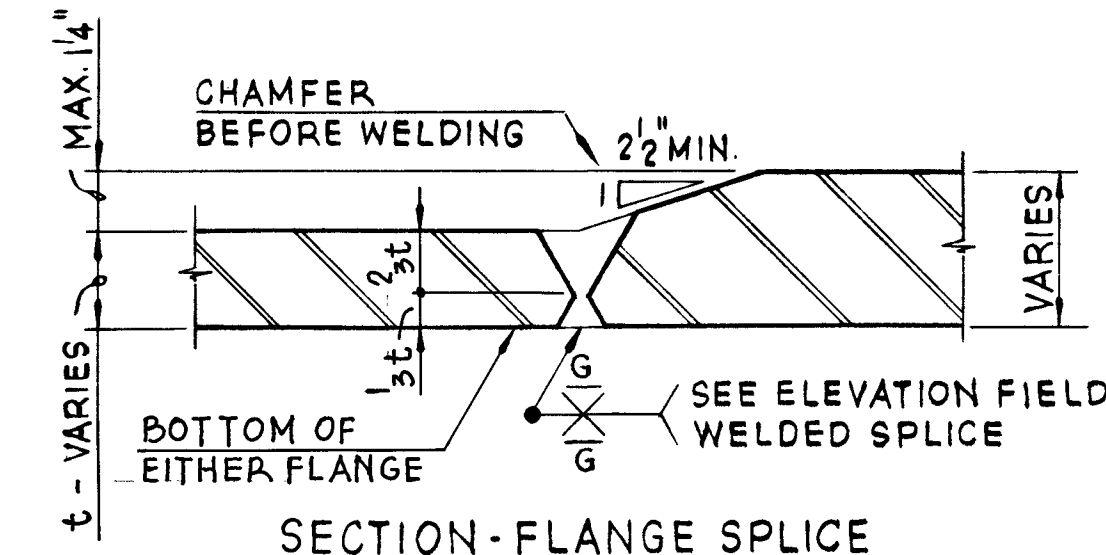


ELEVATION - BOLTED FIELD SPLICE

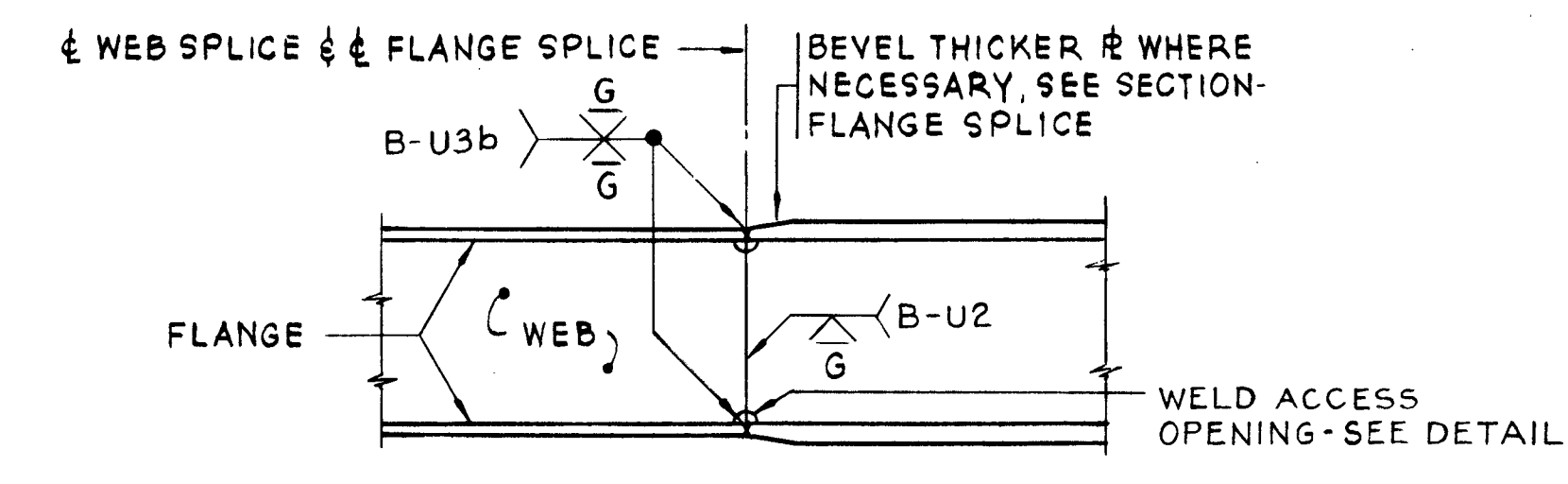
BOLTED FIELD SPLICE DETAILS  
NO SCALE



PLAN - FLANGE SPLICE

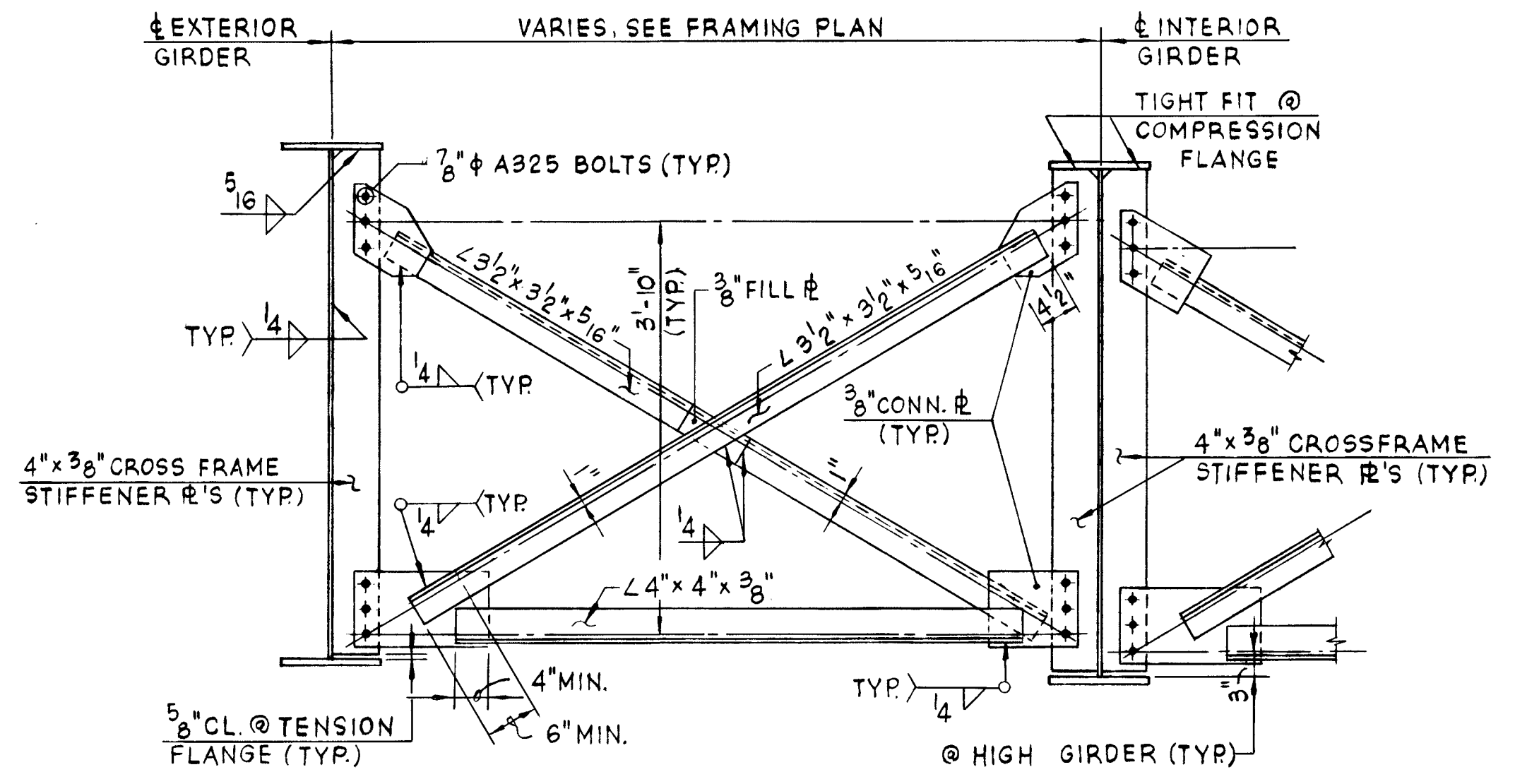


SECTION - FLANGE SPLICE



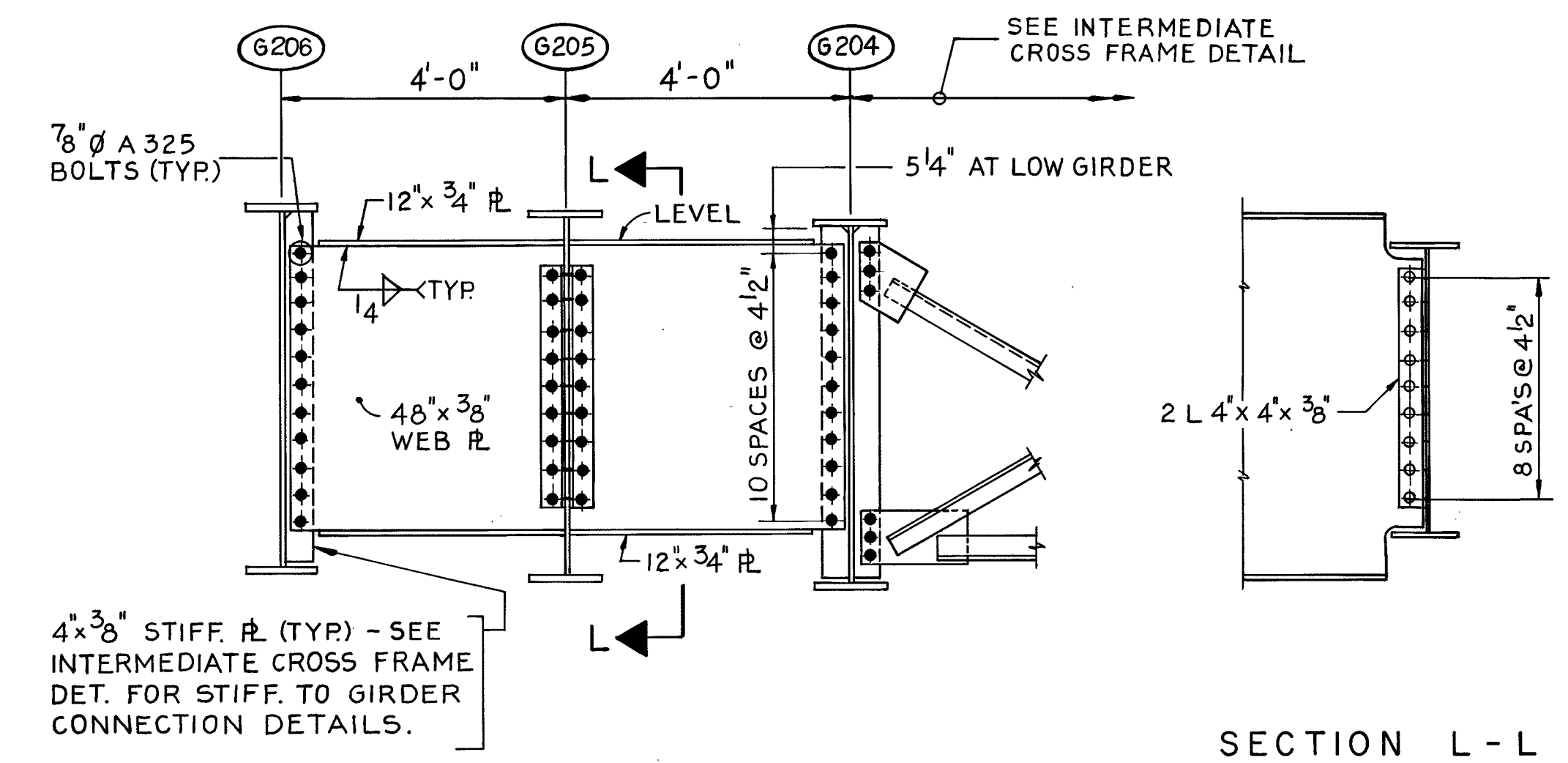
ELEVATION - FIELD WELDED SPLICE

FIELD WELDED SPLICE DETAILS  
NO SCALE



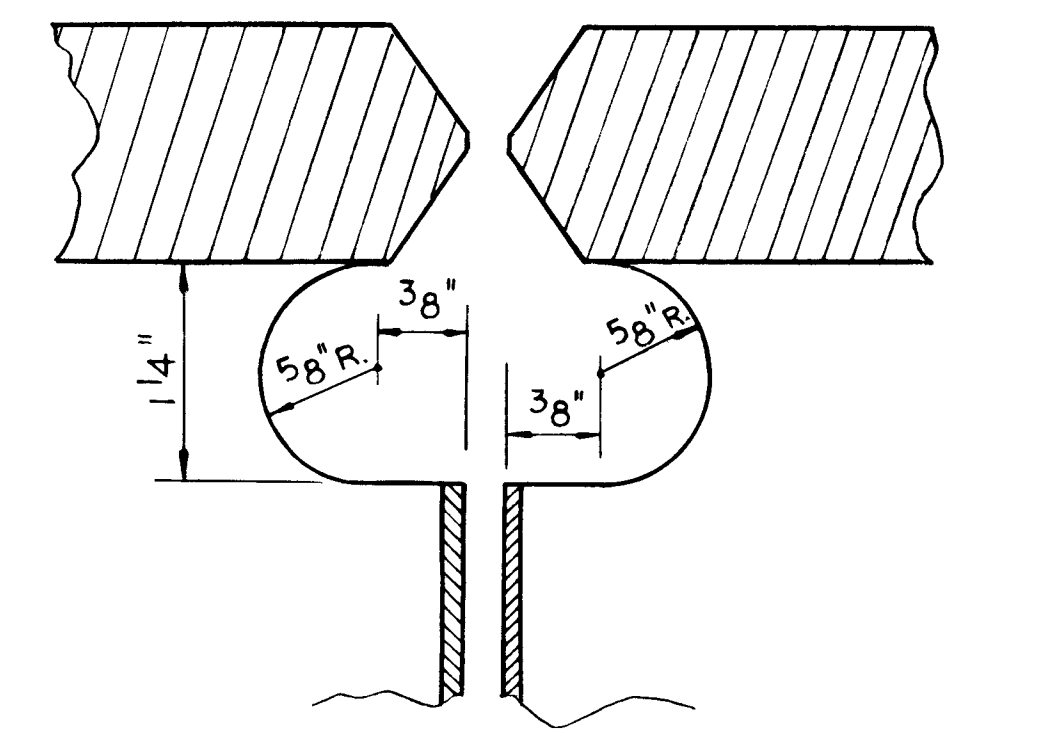
INTERMEDIATE CROSS FRAME DETAIL

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

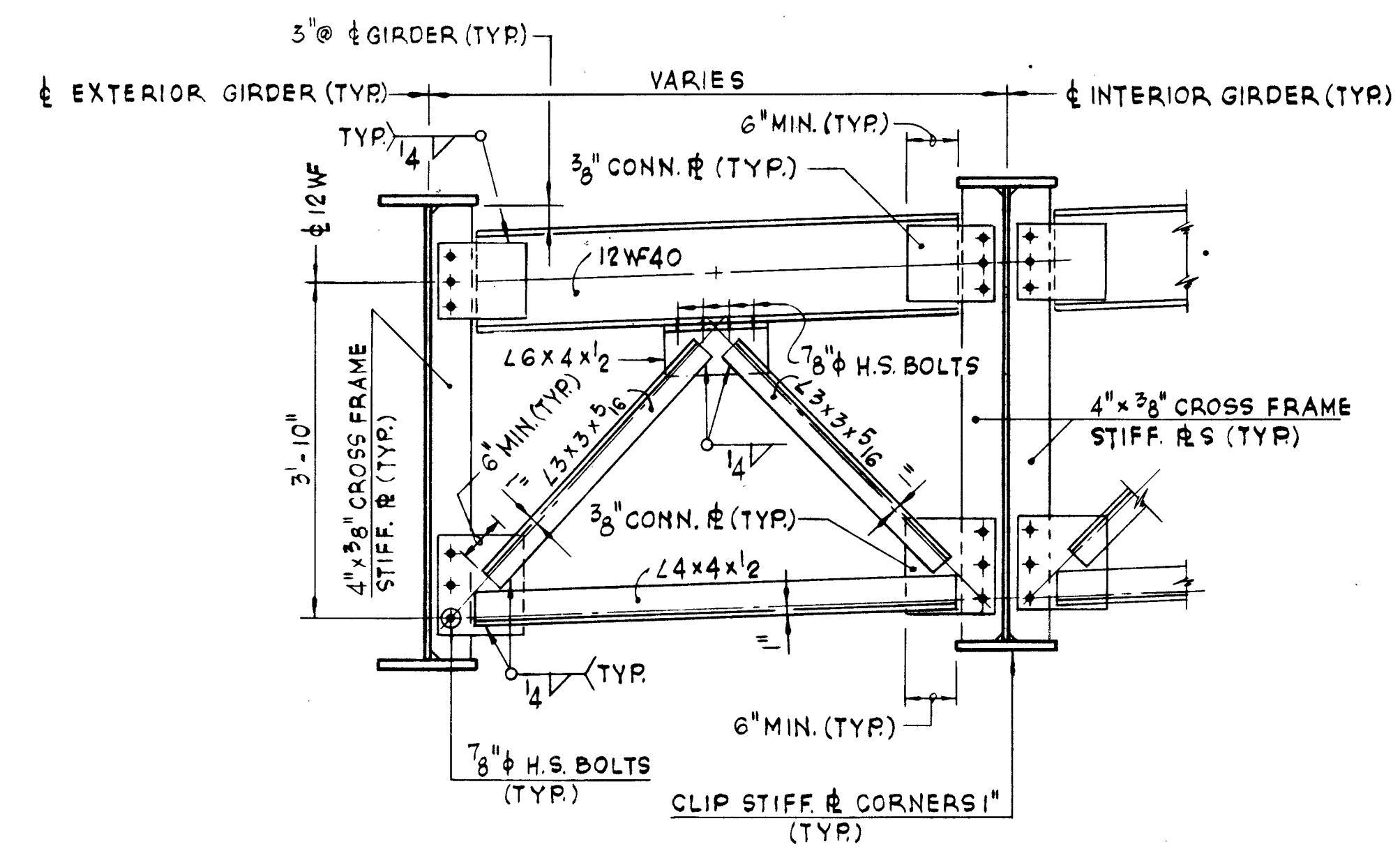


SECTION K-K (SEE DWG. S-58)  
SCALE: 1/2" = 1'-0"

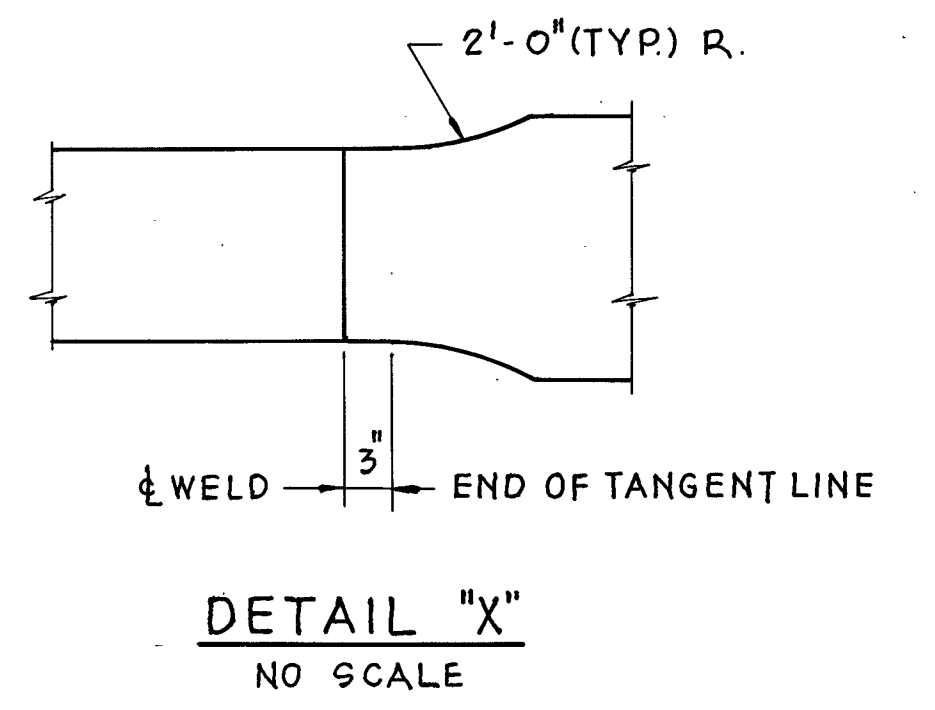
SECTION L-L  
SCALE: 1/2" = 1'-0"



WELD ACCESS OPENING DETAIL  
NO SCALE (TYPICAL)



TYP. END CROSS FRAME  
AT PIER A & PIER B - NO SCALE



DETAIL "X"  
NO SCALE

NOTES  
WORK THIS DWG. WITH DWGS. S-58  
THRU S-68

FIELD SPLICE SCHEDULE					
GIRDERS	SP LINE	A	B	C	D
G2 THRU G4	1 & 1A	4	16" x 3/4" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 3/4" x 2'-6 1/4"
G8 THRU G11	2	4	12" x 1/2" x 2'-2 1/4"	---	2 RS-5" x 3/8" x 2'-2 1/4"
G8 THRU G11	3	3	16" x 1/2" x 2'-0 1/4"	---	2 RS-6" x 1/2" x 2'-0 1/4"
G8 THRU G11	4 & 5	4	16" x 3/4" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 3/4" x 2'-6 1/4"
G8 THRU G11	6	3	16" x 5/8" x 2'-0 1/4"	---	2 RS-6" x 5/8" x 2'-0 1/4"
G8 THRU G11	7	2	16" x 1/2" x 1'-6 1/4"	16" x 1/4" x 0'-9"	2 RS-6" x 1/2" x 1'-6 1/4"
G202 THRU G205	52 & 53	4	16" x 5/8" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 3/4" x 2'-6 1/4"
G208 THRU G213	54 & 55	4	12" x 1/2" x 2'-2 1/4"	---	2 RS-5" x 1/2" x 2'-2 1/4"
G208 THRU G213	56 & 57	4	16" x 5/8" x 2'-6 1/4"	16" x 1/8" x 1'-3"	2 RS-6" x 3/4" x 2'-6 1/4"
G208 THRU G213	58 & 59	3	16" x 5/8" x 2'-0 1/4"	16" x 1/8" x 1'-0"	2 RS-6" x 1/2" x 2'-0 1/4"

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED BY *Raymond D. Koester*  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

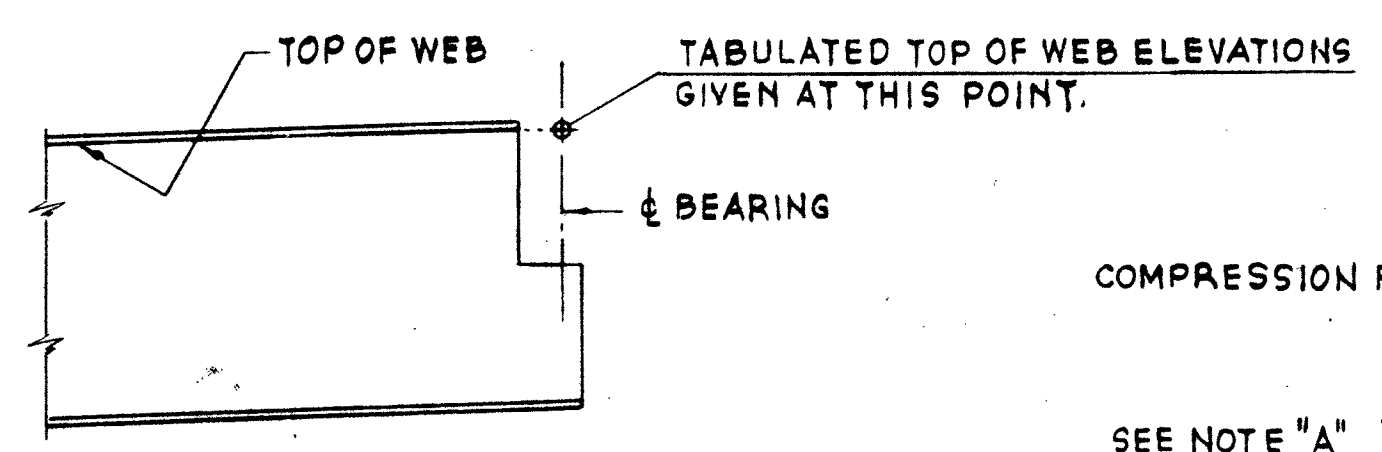
MISCELLANEOUS  
STEEL DETAILS, UNIT "A"  
F.A.I. 74 - SECTION 81-1HV8  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20

AS REVISED: JULY 28, 1972 SCALE: AS NOTED DATE:

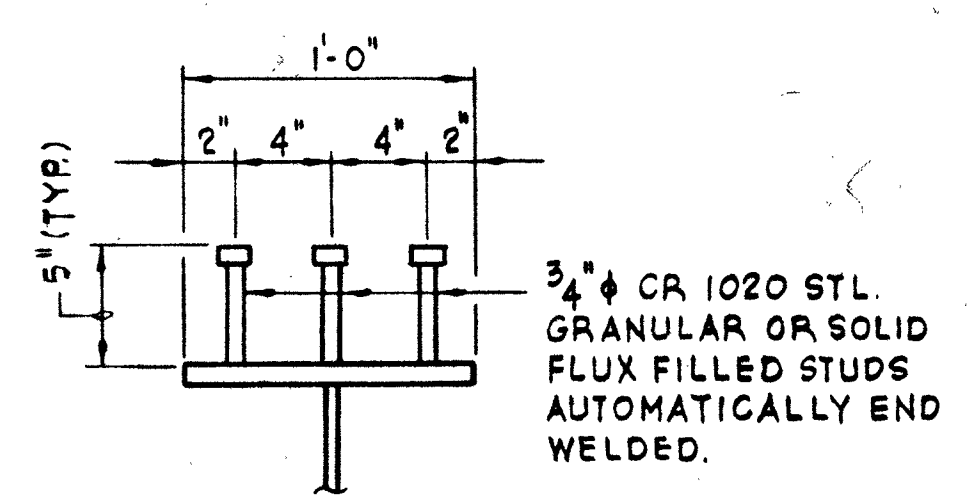
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 174	81-1HVB	ROCK ISLAND	298	115
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

UNIT A N.B.						UNIT A S.B.											
LOCATION	GIRDER	G1	G2	G3	G4	G5	LOCATION	GIRDER	G201	G202	G203	G204	G205	G206			
PIER LINE A		612.307	612.307	612.307	612.307	612.307	PIER LINE B		612.036	612.201	612.366	612.532		612.697			
SPLICE LINE # 1		610.764	610.900	611.032	611.165	611.289	NORTHERNMOST CROSS FRAME IN SPAN B-1						612.388				
PIER 1 N.B.		610.681	610.827	610.969	611.110	611.246	SPLICE LINE # 52		610.562	610.777	610.992	611.208	611.429	611.718			
SPLICE LINE # 1A		610.597	610.754	610.905	611.056	611.202	PIER 1 S.B.		610.502	610.720	610.938	611.155	611.388	611.705			
EXP. BEARING		609.337	609.671	609.957	610.242	610.516	SPLICE LINE # 53		610.442	610.663	610.883	611.103	611.346	611.691			
LOCATION	GIRDER	G7	G8	G9	G10	G11	G12	EXP. BEARING	609.819	610.066	610.313	610.560	610.897	611.295			
EXP. BEARING		609.338	609.629	609.855	610.081	610.307	610.516	LOCATION GIRDER	G207	G208	G209	G210	G211	G212	G213	G214	
SPLICE LINE # 2		609.189	609.498	609.725	609.952	610.180	610.405	EXP. BEARING	609.819	610.003	610.180	610.356	610.525	610.739	611.023	611.294	
PIER 2 N.B.		609.122	609.436	609.665	609.894	610.123	610.354	SPLICE LINE # 54	609.710	609.886	610.064	610.243	610.419	610.628	610.903	611.182	
SPLICE LINE # 3		609.055	609.374	609.606	609.836	610.065	610.303	PIER 2 S.B.	609.676	609.849	610.029	610.209	610.387	610.595	610.867	611.148	
SPLICE LINE # 4		607.987	608.417	608.700	608.946	609.192	609.428	SPLICE LINE # 55	609.642	609.812	609.993	610.175	610.356	610.563	610.830	611.113	
PIER 3 N.B.		607.935	608.371	608.658	608.905	609.153	609.390	SPLICE LINE # 56	609.137	609.341	609.543	609.745	609.947	610.146	610.344	610.540	
SPLICE LINE # 5		607.884	608.325	608.617	608.865	609.113	609.352	PIER 3 S.B.	609.113	609.318	609.522	609.725	609.928	610.128	610.327	610.523	
SPLICE LINE # 6		607.425	607.738	608.035	608.299	608.564	608.837	SPLICE LINE # 57	609.089	609.296	609.501	609.705	609.910	610.110	610.309	610.505	
PIER 4 N.B.		607.401	607.716	608.011	608.278	608.544	608.812	SPLICE LINE # 58	608.686	608.913	609.140	609.366	609.588	609.798	610.008	610.217	
SPLICE LINE # 7		607.377	607.695	607.988	608.255	608.523	608.787	PIER 4 S.B.	608.662	608.891	609.118	609.346	609.569	609.780	609.991	610.201	
EXP. BEARING		607.314	607.647	607.938	608.207	608.475	608.726	SPLICE LINE # 59	608.638	608.868	609.097	609.326	609.550	609.762	609.974	610.185	
								EXP. BEARING	608.260	608.512	608.765	609.018	609.267	609.487	609.718	609.949	

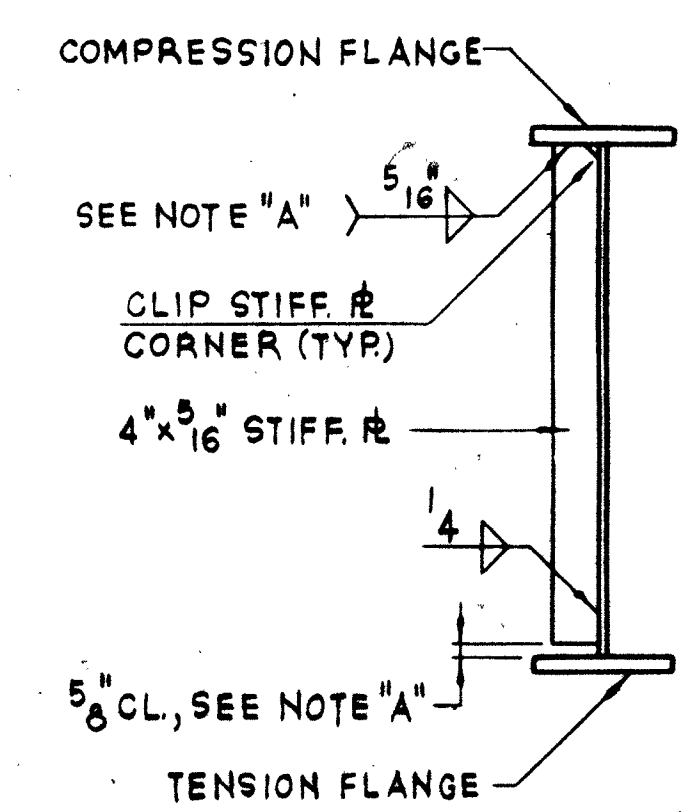
\* SEE DETAIL "A" THIS DWG. FOR CLARIFICATION @ BEARING.



DETAIL "A"  
NO SCALE

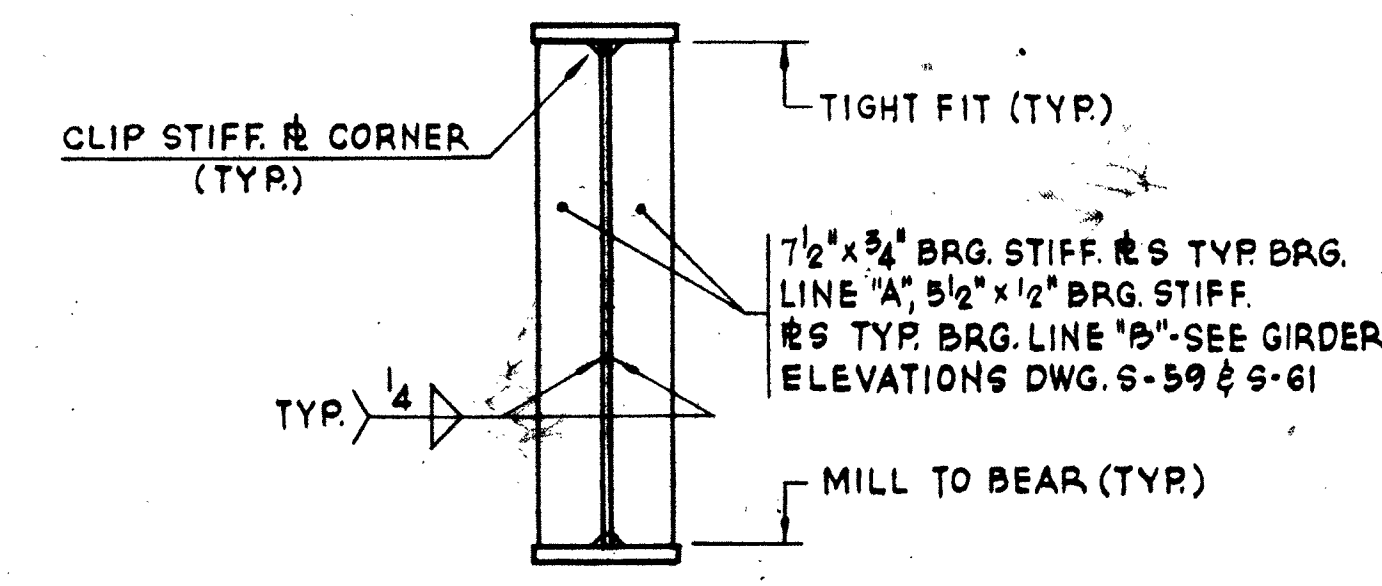


SHEAR CONNECTOR DETAIL  
SCALE: 1/2" = 1'-0"



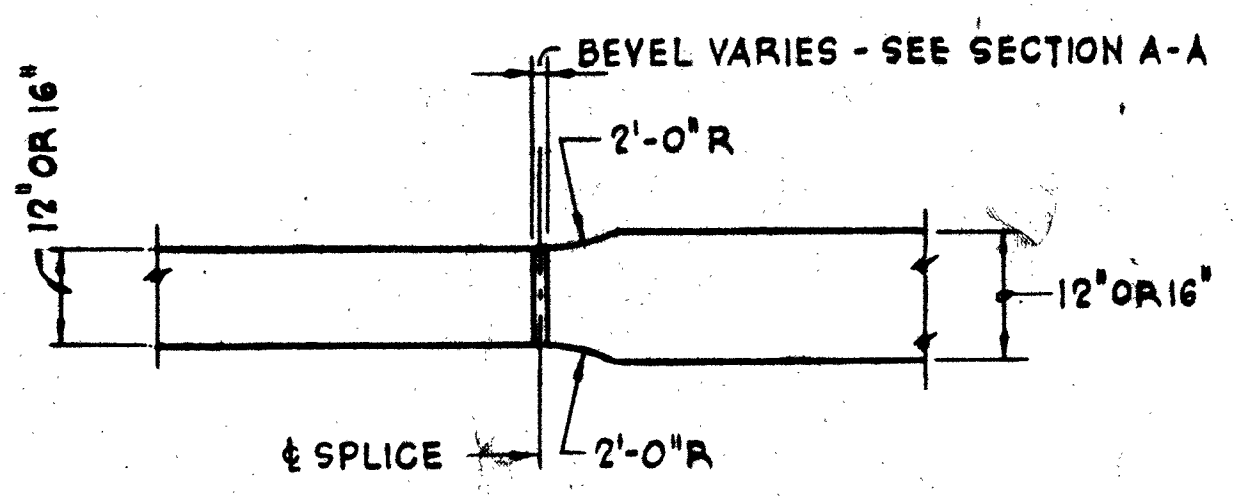
INTERMEDIATE STIFFENER DETAIL  
NO SCALE

NOTE "A"  
5/8" CL. AT TENSION FLANGE, WELD AT COMPRESSION FLANGE. FOR LIMITS OF TENSION & COMPRESSION IN FLANGES SEE GIRDER ELEVATIONS. WHERE STIFF INTERFERES WITH FIELD FLANGE SPLICES, CUT INTERMEDIATE STIFF. AS REQ'D. AT SPECIAL LOCATIONS NEAR BEARINGS, WHERE STIFF. ARE PLACED IN PAIRS, SUBSTITUTE TIGHT FIT FOR WELD SHOWN AT COMPRESSION FLANGE.

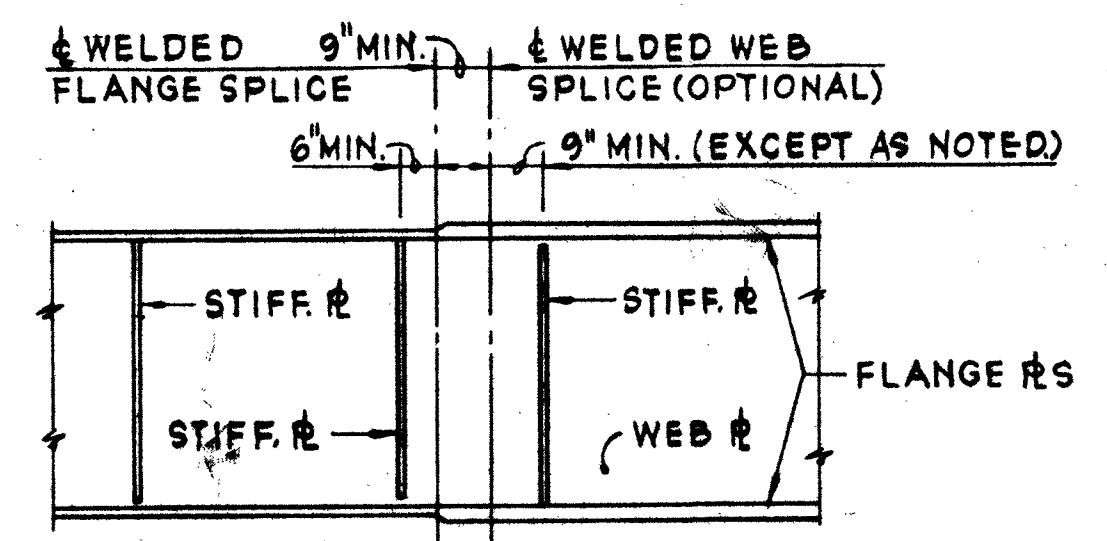


BEARING STIFFENER DETAIL  
NO SCALE

NOTES  
WORK THIS DWG. WITH DWGS. S-58 THRU S-67

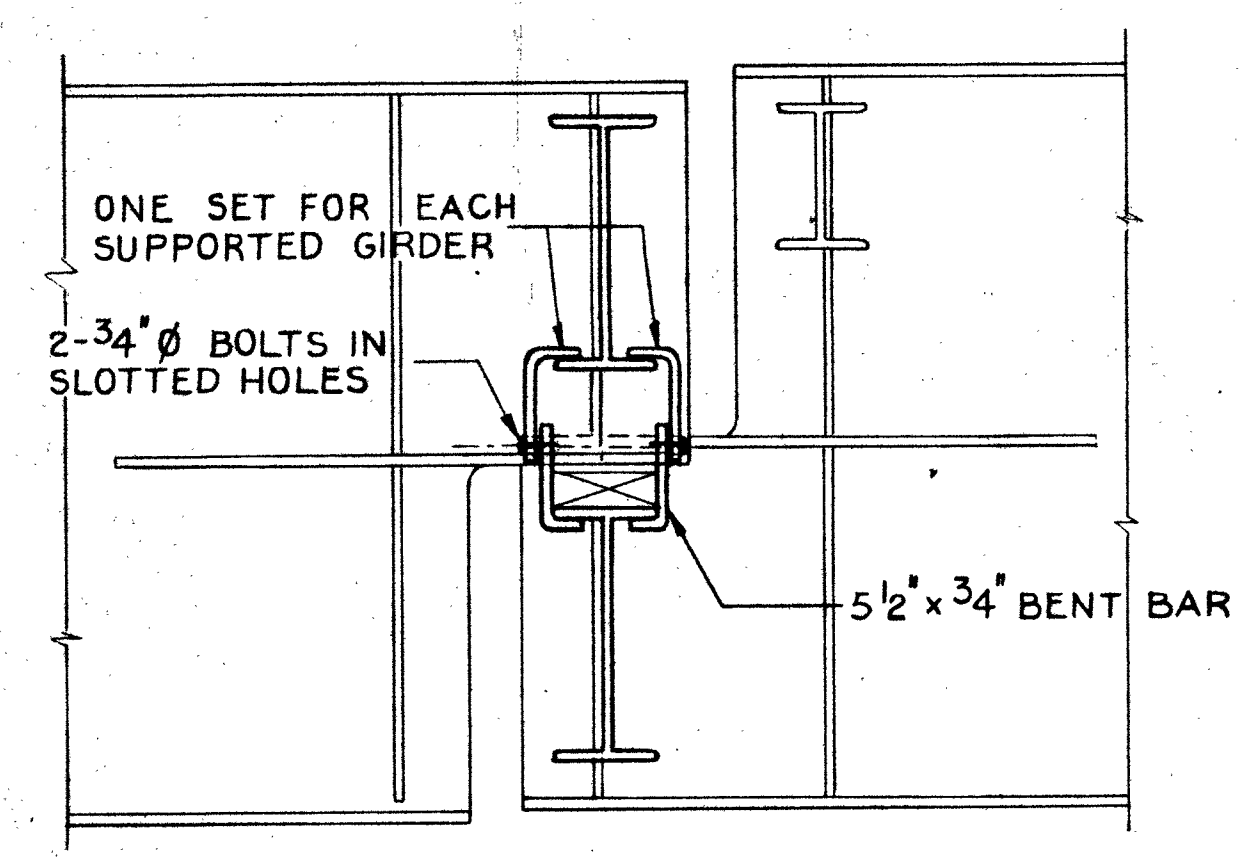


PLAN - FLANGE SPLICE



ELEVATION - WELDED SPLICES

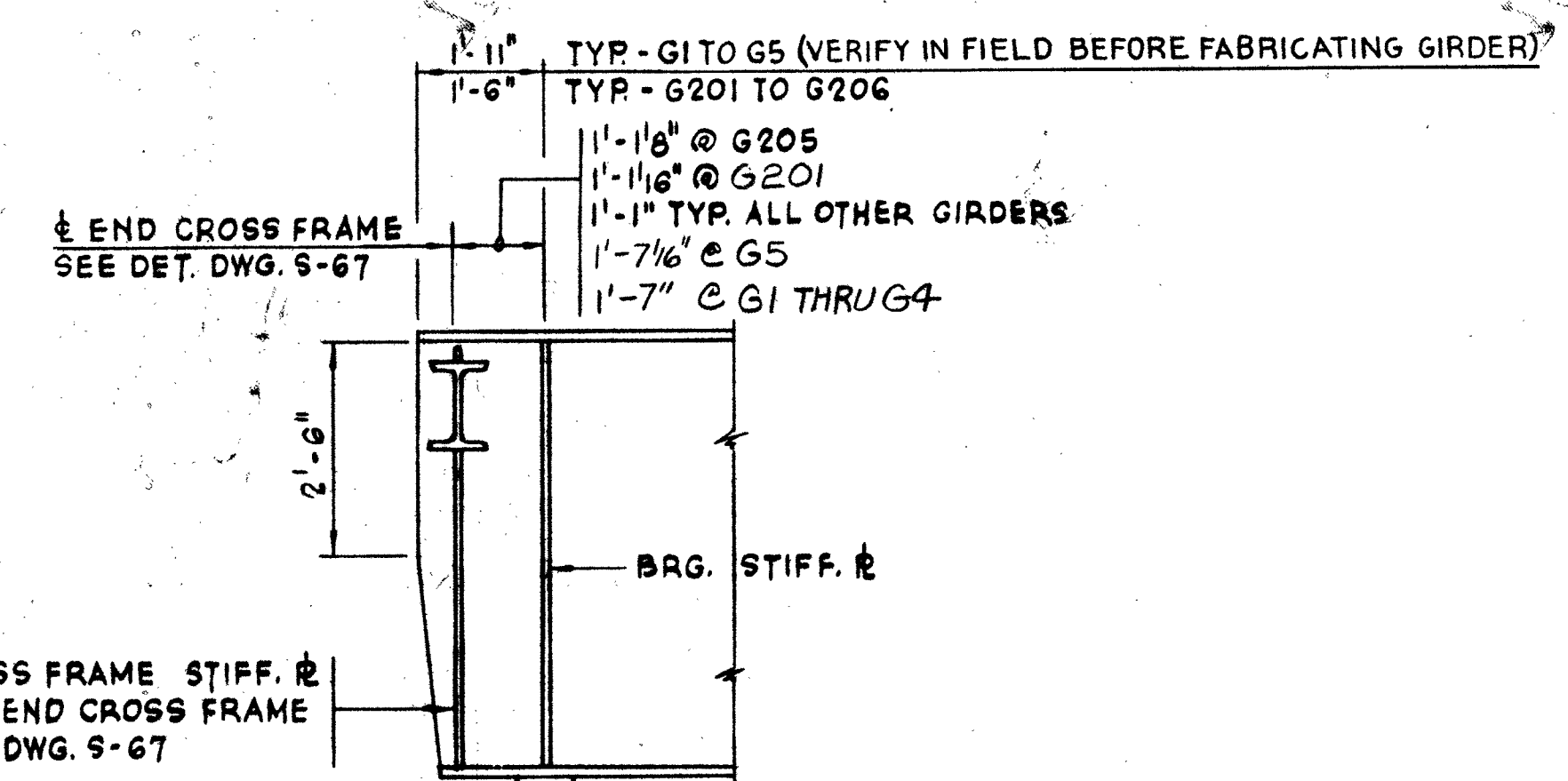
WELDED SHOP SPLICE DETAILS  
NO SCALE



HOLD DOWN ASSEMBLY DETAIL

FOR INDICATION OF WHERE THESE MAY BE REQUIRED SEE DWG. S-171.

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



DETAIL "R"  
SCALE: 1/2" = 1'-0"

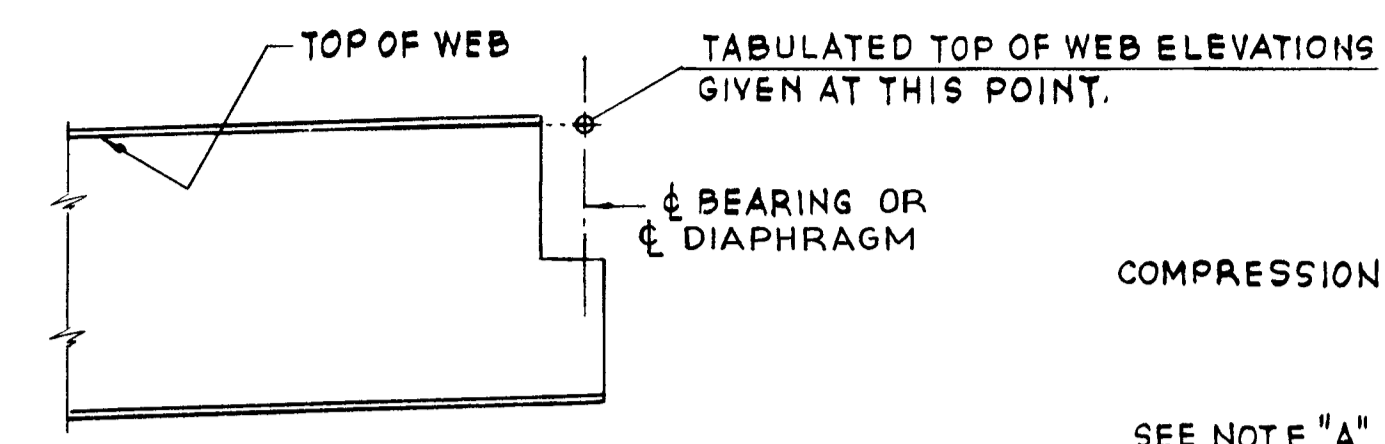
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. D. KOESTER  
DRAWN BY J. N. LESLIE  
CHECKED *[Signature]*  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

MISCELLANEOUS STEEL DETAILS, UNIT "A"  
F.A. 174-SECTION 81-1HVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

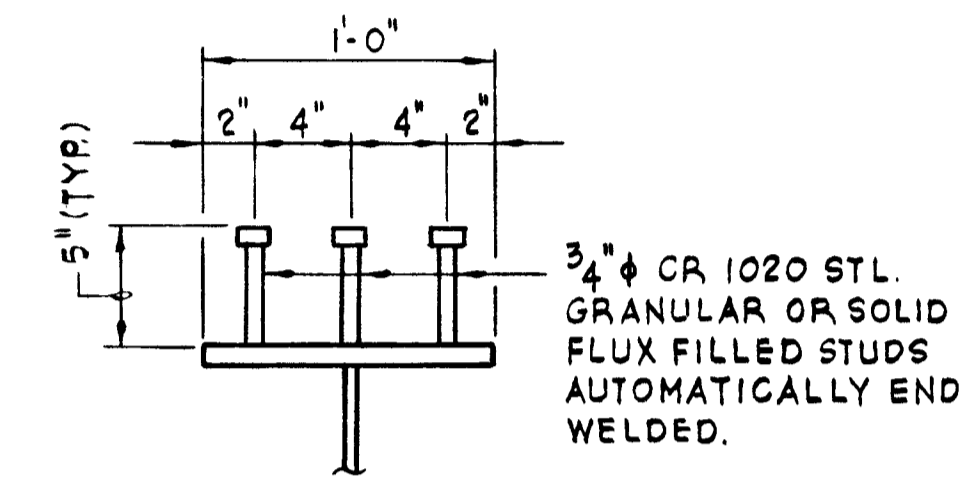
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	115-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

UNIT A N.B.							UNIT A S.B.										
LOCATION	GIRDER	G1	G2	G3	G4	G5	LOCATION	GIRDER	G201	G202	G203	G204	G205	G206			
PIER LINE A		612.307	612.307	612.307	612.307	612.307	PIER LINE B		612.036	612.201	612.366	612.532	-	612.697			
SPLICE LINE # 1		610.764	610.900	611.032	611.165	611.289	DIAPHRAGM IN SPAN B-1		-	-	-	-	612.388	-			
PIER 1 N.B.		610.681	610.827	610.969	611.110	611.246	SPLICE LINE # 52		610.562	610.777	610.992	611.208	611.429	611.718			
SPLICE LINE # 1A		610.597	610.754	610.905	611.056	611.202	PIER 1 S.B.		610.502	610.720	610.938	611.155	611.388	611.705			
EXP. BEARING		609.337	609.671	609.957	610.242	610.516	SPLICE LINE # 53		610.442	610.663	610.883	611.103	611.346	611.691			
LOCATION	GIRDER	G7	G8	G9	G10	G11	G12	EXP. BEARING		609.819	610.066	610.313	610.560	610.897	611.295		
EXP. BEARING		609.338	609.629	609.855	610.081	610.307	610.516	LOCATION	GIRDER	G207	G208	G209	G210	G211	G212	G213	G214
SPLICE LINE # 2		609.189	609.498	609.725	609.952	610.180	610.405	EXP. BEARING		609.819	610.003	610.180	610.356	610.525	610.739	611.023	611.294
PIER 2 N.B.		609.122	609.436	609.665	609.894	610.123	610.354	SPLICE LINE # 54		609.710	609.886	610.064	610.243	610.419	610.628	610.903	611.182
SPLICE LINE # 3		609.055	609.374	609.606	609.836	610.065	610.303	PIER 2 S.B.		609.676	609.849	610.029	610.209	610.387	610.595	610.867	611.148
SPLICE LINE # 4		607.987	608.417	608.700	608.946	609.192	609.428	SPLICE LINE # 55		609.642	609.812	609.993	610.175	610.356	610.563	610.830	611.113
PIER 3 N.B.		607.935	608.371	608.658	608.905	609.153	609.390	SPLICE LINE # 56		609.137	609.341	609.543	609.745	609.947	610.146	610.344	610.540
SPLICE LINE # 5		607.884	608.325	608.617	608.865	609.113	609.352	PIER 3 S.B.		609.113	609.318	609.522	609.725	609.928	610.128	610.327	610.523
SPLICE LINE # 6		607.425	607.738	608.035	608.299	608.564	608.837	SPLICE LINE # 57		609.089	609.296	609.501	609.705	609.910	610.110	610.309	610.505
PIER 4 N.B.		607.401	607.716	608.011	608.278	608.544	608.812	SPLICE LINE # 58		608.686	608.913	609.140	609.366	609.588	609.798	610.008	610.217
SPLICE LINE # 7		607.377	607.695	607.988	608.255	608.523	608.787	PIER 4 S.B.		608.662	608.891	609.118	609.346	609.569	609.780	609.991	610.201
EXP. BEARING		607.314	607.647	607.938	608.207	608.475	608.726	SPLICE LINE # 59		608.638	608.868	609.097	609.326	609.550	609.762	609.974	610.185
								EXP. BEARING		608.260	608.512	608.765	609.018	609.257	609.487	609.718	609.949

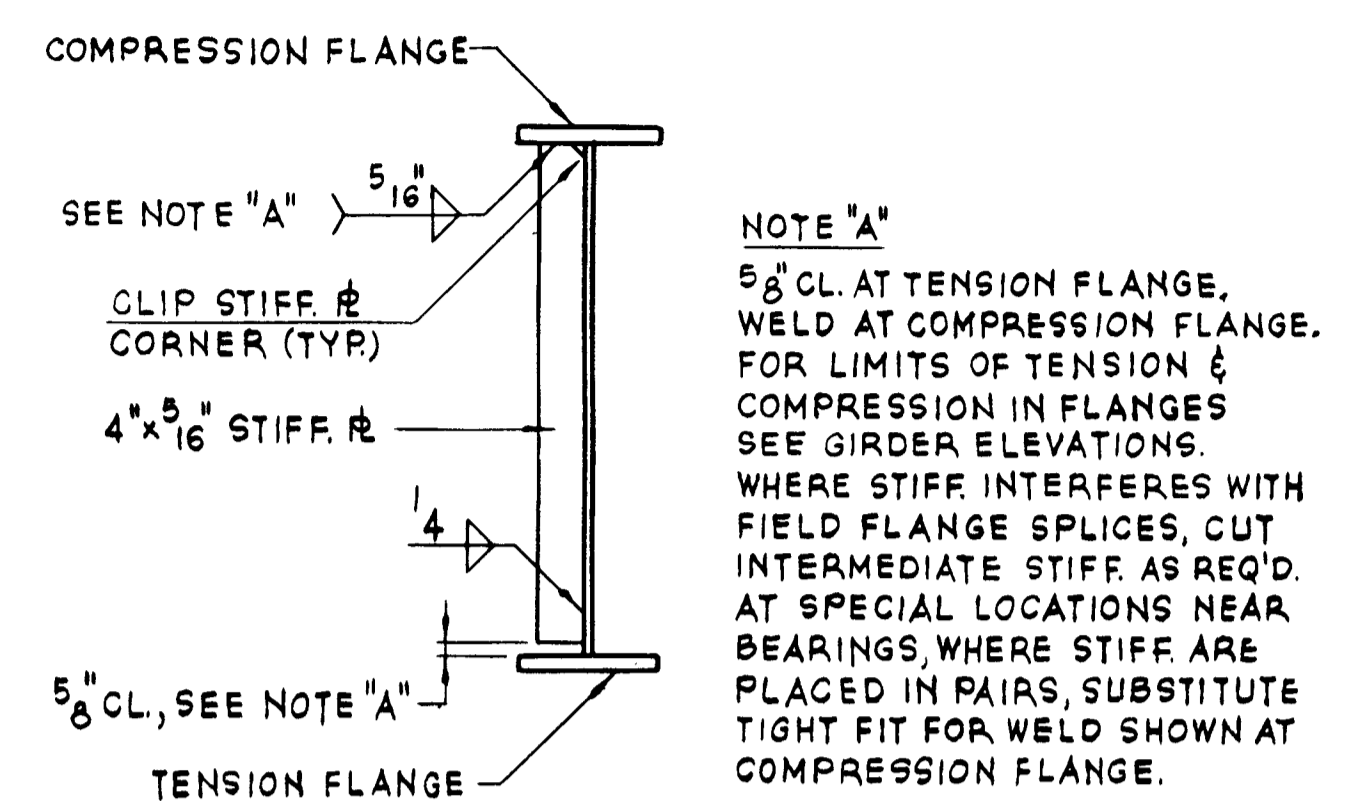
\* SEE DETAIL "A" THIS DWG. FOR CLARIFICATION @ BEARING OR DIAPHRAGM



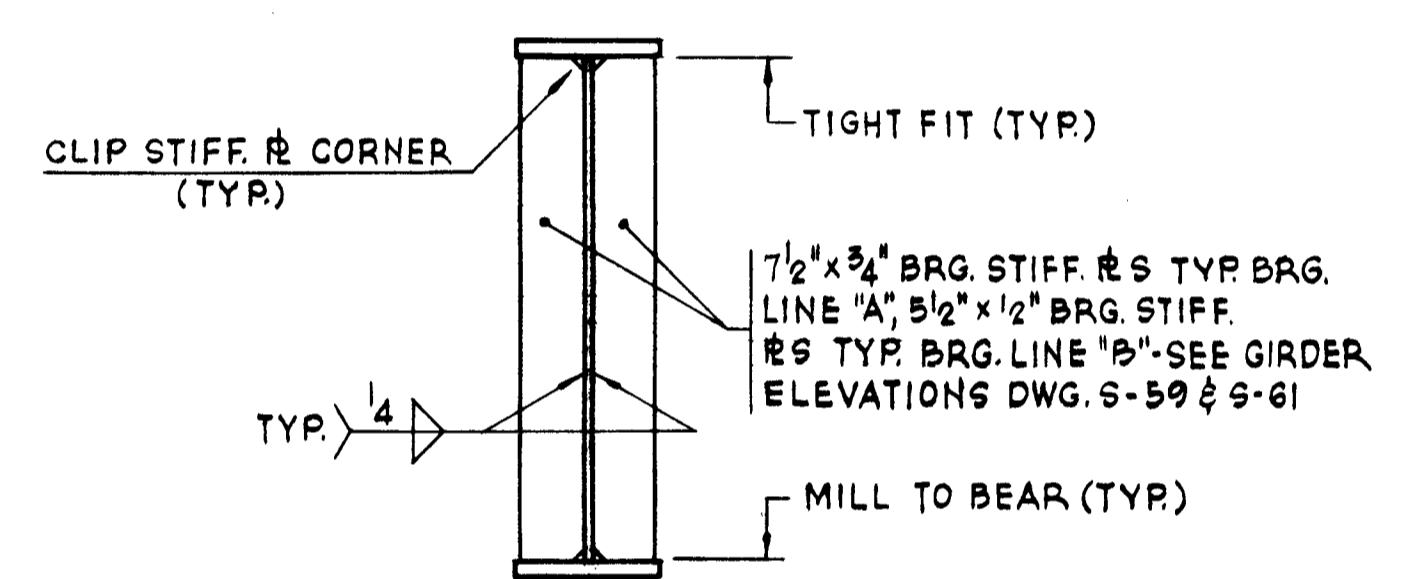
DETAIL "A"  
NO SCALE



SHEAR CONNECTOR DETAIL  
SCALE: 1/2" = 1'-0"

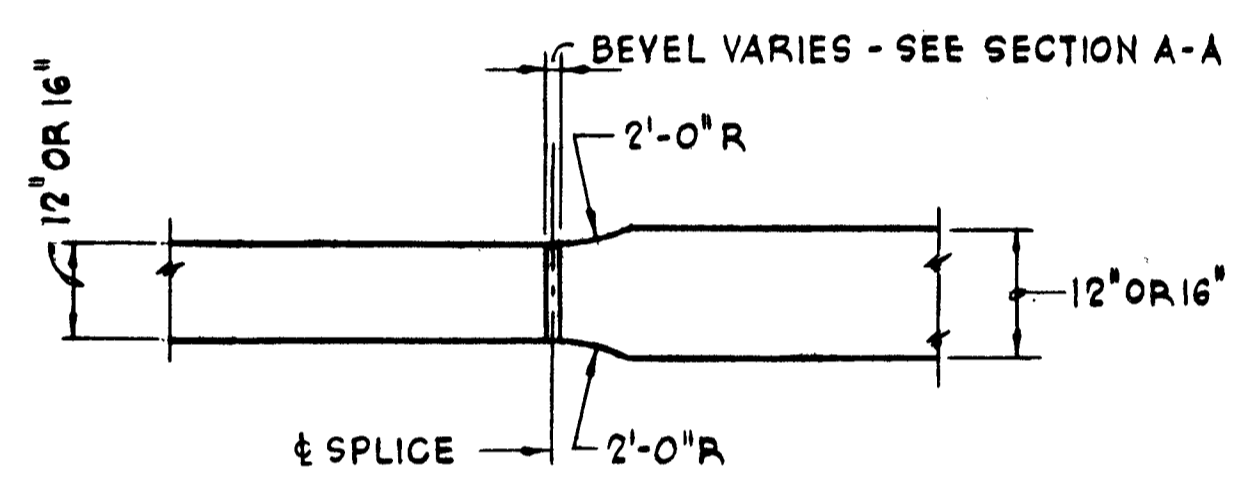


INTERMEDIATE STIFFENER DETAIL  
NO SCALE

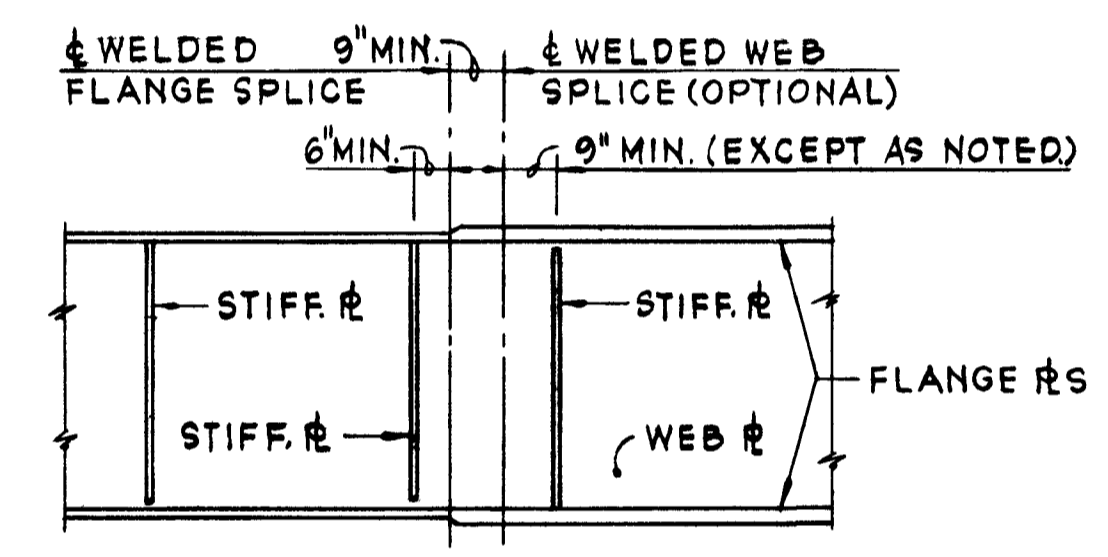


BEARING STIFFENER DETAIL  
NO SCALE

NOTES  
WORK THIS DWG. WITH DWGS. S-58 THRU S-67

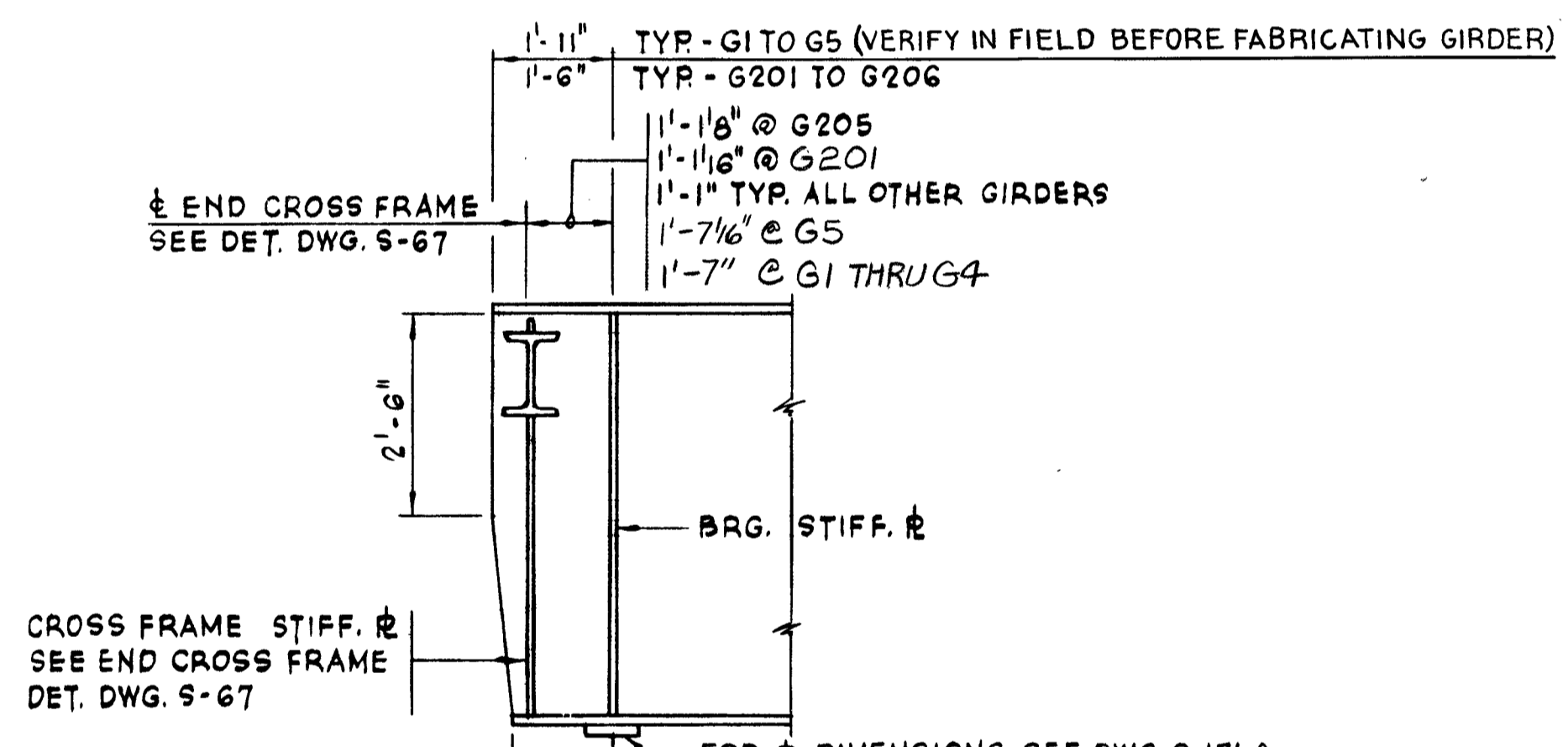


PLAN - FLANGE SPLICE

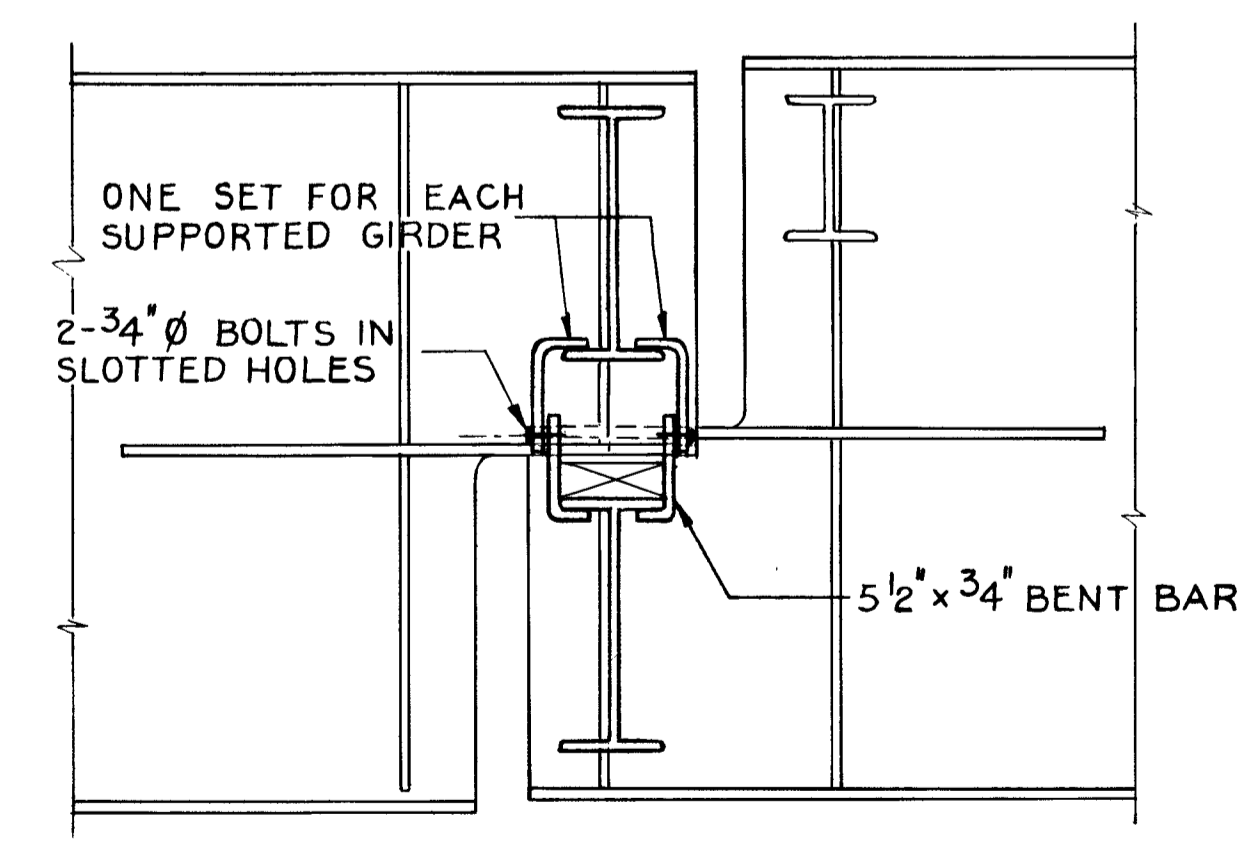


ELEVATION - WELDED SPLICES

WELDED SHOP SPLICE DETAILS  
NO SCALE



DETAIL "R"  
SCALE: 1/2" = 1'-0"



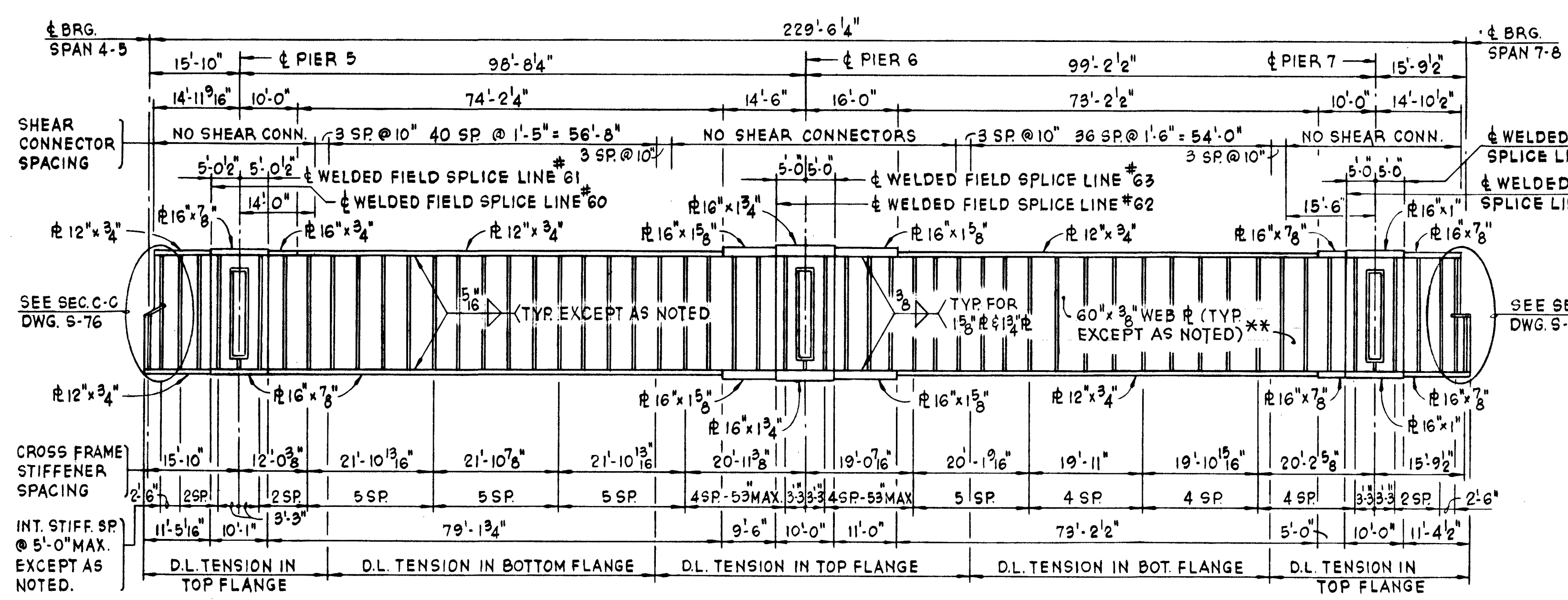
HOLD DOWN ASSEMBLY DETAIL  
FOR INDICATION OF WHERE THESE MAY BE REQUIRED SEE DWG. S-171.  
SCALE: 3/4" = 1'-0"

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. D. KOESTER  
DRAWN BY J. N. LESLIE  
CHECKED *[Signature]*  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

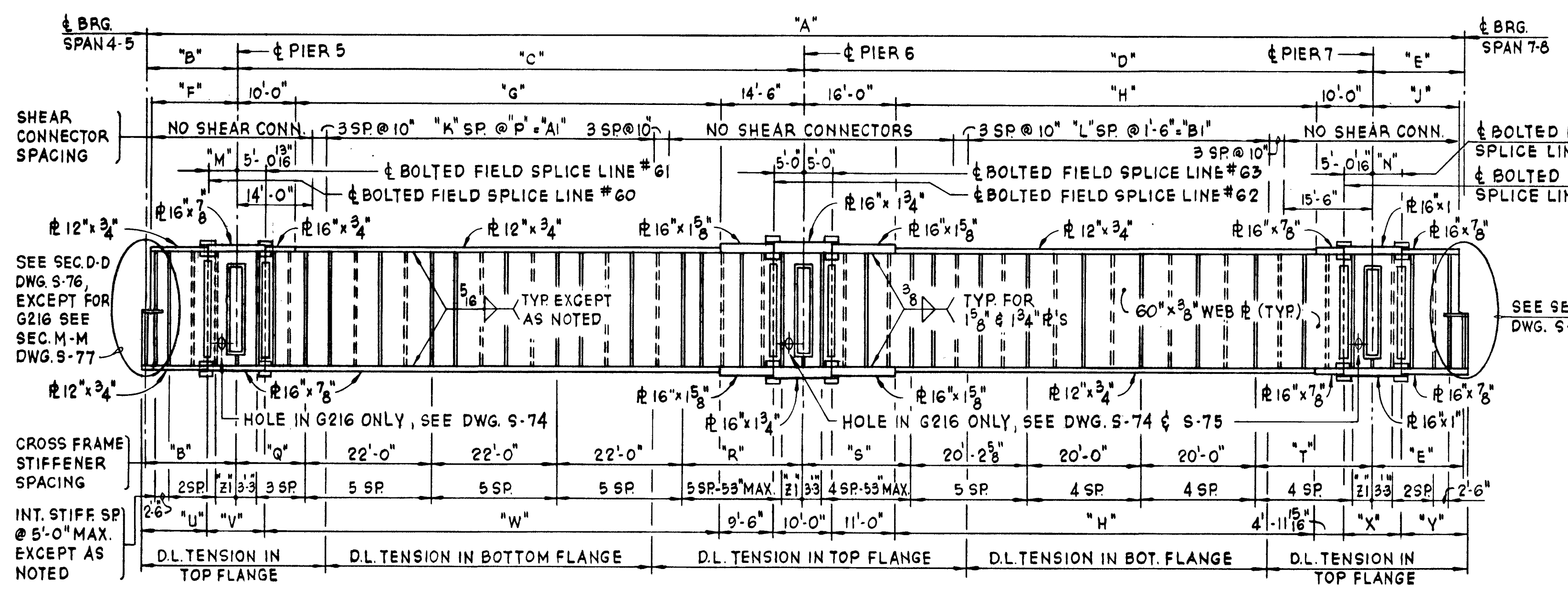
MISCELLANEOUS  
STEEL DETAILS, UNIT "A"  
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

AS REVISED: JULY 28, 1972





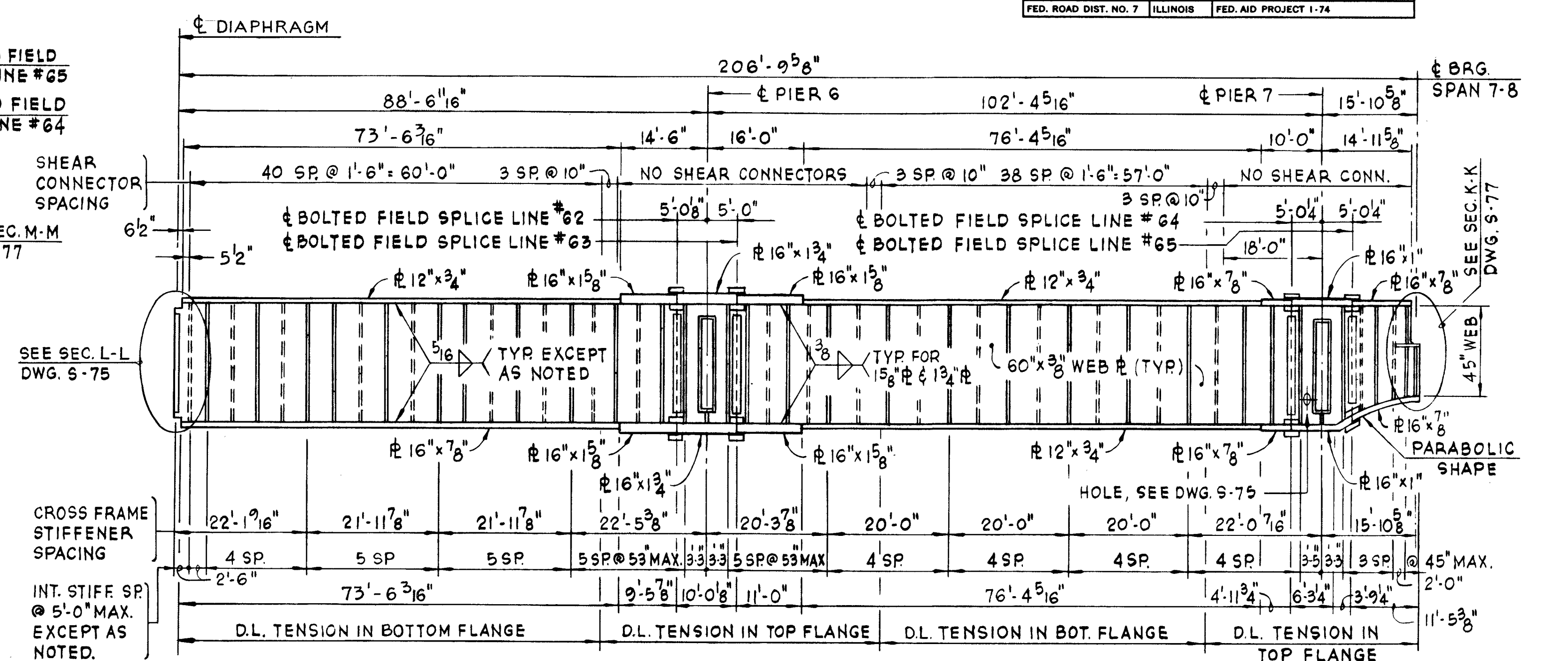
**ELEVATION OF GIRDER G215**  
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



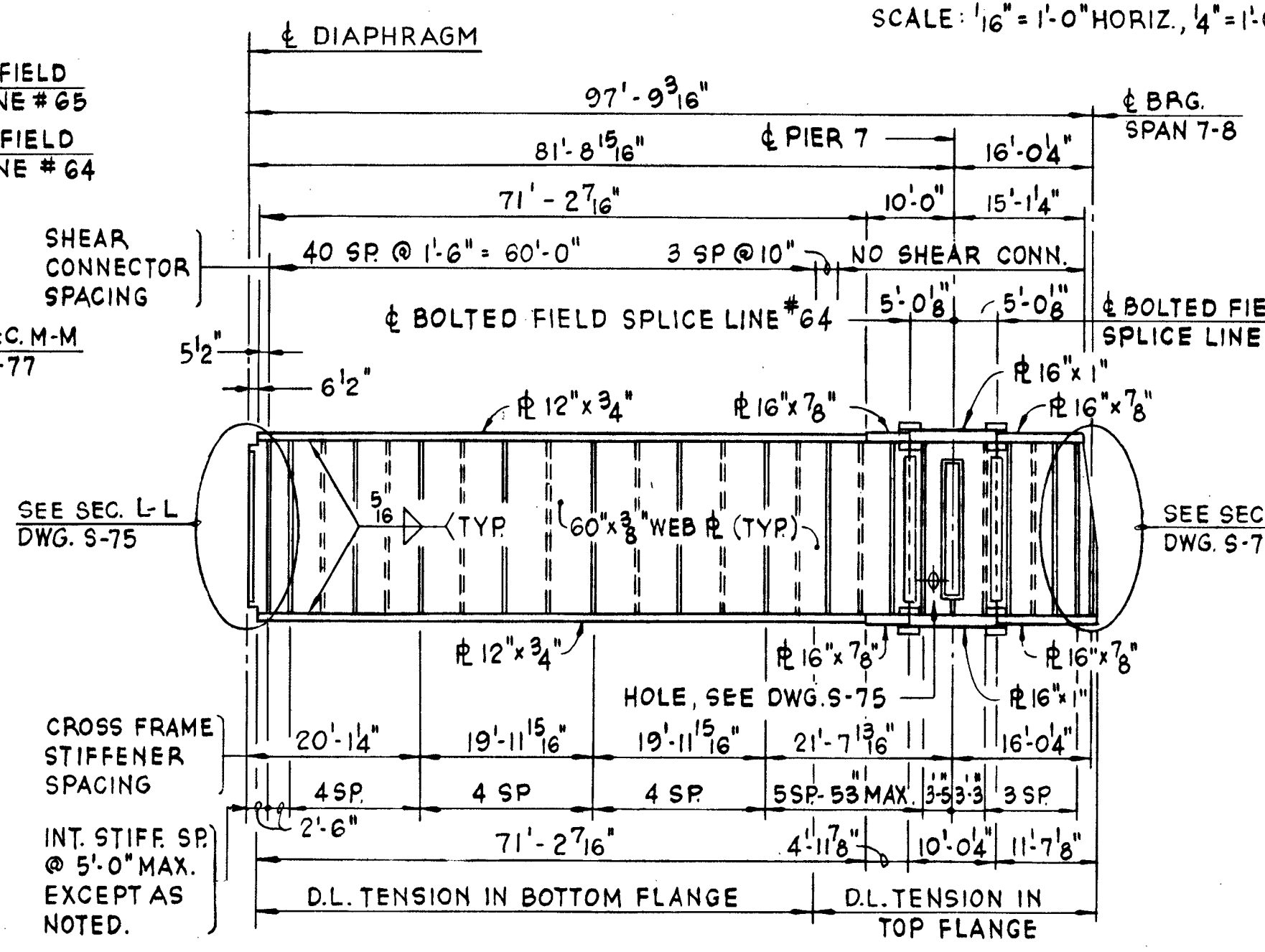
**ELEVATION OF GIRDERS G216 THRU G220**  
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.

TABLE OF DIMENSIONS AND SPACINGS													
GIRDER	A	B	C	D	E	F	G	H	J	K	L	M	A1
G216	231'-7 9/16"	15'-11 1/16"	100'-11 1/4"	99'-8"	15'-10 5/8"	15'-0 1/16"	75'-7 1/4"	73'-8"	14'-11 5/8"	40	36	5'-1"	56'-8"
G217	233'-6 1/16"	15'-11 1/16"	101'-6 7/16"	100'-1 1/16"	15'-11 1/2"	15'-0 1/16"	77'-0 7/16"	74'-1 1/16"	15'-0 1/2"	41	36	5'-0 9/16"	58'-1"
G218	235'-6 7/16"	15'-11 1/16"	102'-11 9/16"	100'-7 7/16"	16'-0 9/8"	15'-0 1/16"	78'-5 9/16"	74'-7 7/16"	15'-1 3/8"	40	36	5'-0 9/16"	60'-0"
G219	237'-6 1/4"	15'-11 1/16"	104'-4 3/4"	101'-1 1/8"	16'-1 5/16"	15'-0 1/16"	79'-10 3/4"	75'-1 1/8"	15'-2 3/16"	41	37	5'-0 9/16"	61'-6"
G220	239'-5 13/16"	15'-11 1/16"	105'-9 7/8"	101'-6 7/8"	16'-2 1/16"	15'-0 1/16"	81'-3 7/8"	75'-6 13/16"	15'-3 1/16"	42	37	5'-0 9/16"	63'-0"
GIRDER	N	P	Q	R	S	T	U	V	W	X	Y	Z1	B1
G216	5'-0 1/16"	1'-5"	13'-0 1/16"	21'-0 5/8"	19'-1 9/16"	20'-3 13/16"	11'-5 1/16"	10'-1 3/16"	80'-6 7/16"	10'-0 1/8"	11'-5 9/16"	3'-5"	54'-0"
G217	5'-0 1/16"	1'-5"	14'-3"	21'-3 3/16"	19'-4 5/16"	20'-6 3/4"	11'-5 1/4"	10'-1 5/8"	80'-11 5/8"	10'-0 1/8"	11'-6 7/16"	3'-3"	54'-0"
G218	5'-0 1/16"	1'-6"	15'-5 5/8"	21'-6 3/16"	19'-7 9/16"	20'-9 5/8"	11'-5 1/4"	10'-1 5/8"	82'-4 3/4"	10'-0 1/8"	11'-7 9/16"	3'-3"	54'-0"
G219	5'-0 1/16"	1'-6"	16'-7 3/4"	21'-9"	19'-9 15/16"	21'-0 9/16"	11'-5 1/4"	10'-1 5/8"	84'-9 15/16"	10'-0 1/8"	11'-8 1/4"	3'-3"	55'-6"
G220	5'-0"	1'-6"	17'-10 1/16"	21'-11 13/16"	20'-0 3/4"	21'-3 1/16"	11'-5 1/4"	10'-1 5/8"	86'-3 1/16"	10'-0 1/16"	11'-9 1/16"	3'-3"	55'-6"

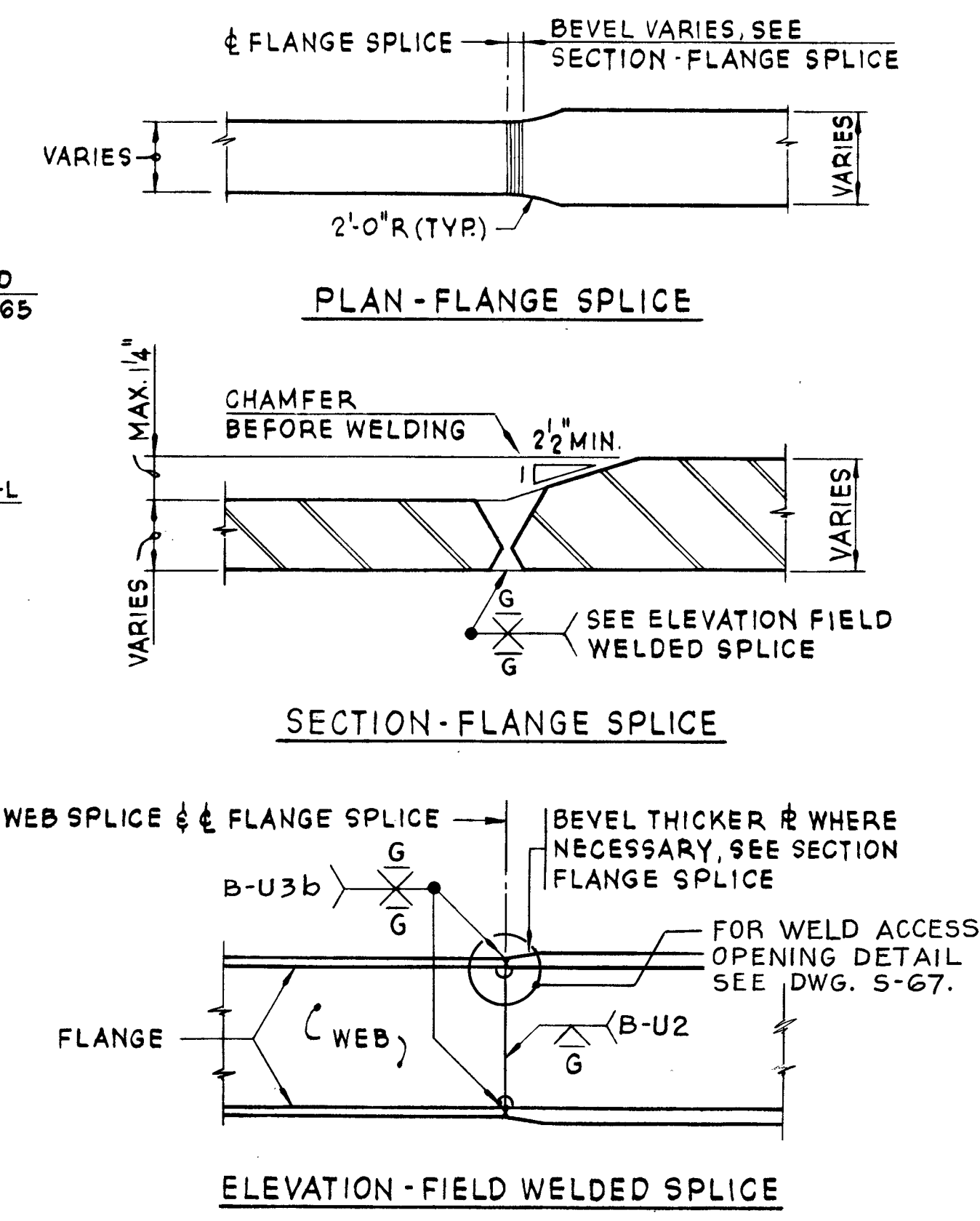
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED BY E.S. MARTINS  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN



**ELEVATION OF GIRDER G222**  
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



**ELEVATION OF GIRDER G221**  
SCALE: 1/16" = 1'-0" HORIZ., 1/4" = 1'-0" VERT.



**NOTES**

WORK THIS DWG. WITH DWG'S S-69, S-74, S-75, S-76, & S-77.

ALL STRUCTURAL STEEL SHALL BE A.S.T.M. DESIGNATION A-36.

ALL DIMENSIONS ARE GIVEN ALONG & WEB ON A HORIZONTAL PLANE @ 50°F TEMP.

ALL BRG. & CROSSFRAME STIFFENER R'S TO BE VERTICAL.

INTERMEDIATE STIFF. R'S ON INTERIOR FACE ONLY OF GIRDER G215

ALTERNATE INTERMEDIATE STIFF. R'S N.F. & F.F. AS SHOWN FOR GIRDERS G216 THRU G222

SPACE INTERMEDIATE STIFF. R'S TO CLEAR & WELDED SPLICES BY 9" MIN. EXCEPT AS NOTED.

FOR SHOP SPLICE DETAIL, SEE DWG. S-87

**FIELD WELDED SPLICE DETAILS**

**GIRDER ELEVATIONS G-215 THRU G-222**  
F.A.I. 74 - SECTION 81-1HV8  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.L. 74	81-1HV8	ROCK ISLAND	298	120
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-73

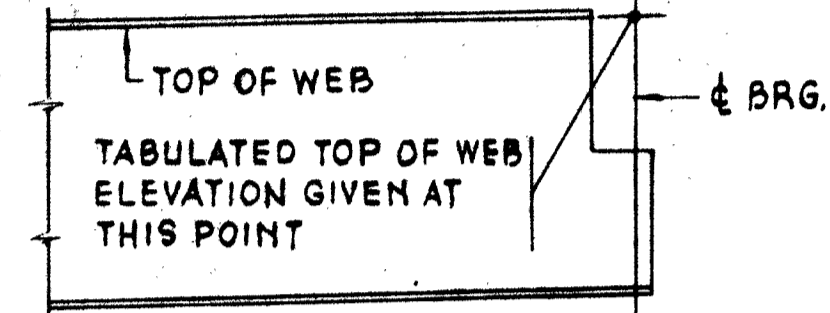
### INTERIOR GIRDER MOMENT TABLE

ITEM	PIER 5	0.4 SPAN 5-6	PIER 6	0.6 SPAN 6-7	PIER 7
I <sub>s</sub> (in. <sup>4</sup> )	32692	27512	60147	23358	36521
I <sub>c</sub> (in. <sup>4</sup> )	-	68456	-	55201	-
S <sub>s</sub> (in. <sup>3</sup> )	1059	1000	1894	760	1178
S <sub>c</sub> (in. <sup>3</sup> )	-	1351	-	1044	-
DL. (k/ft.)	0.98	1.02	0.98	1.05	1.02
M.DL. (ft.k)	-605	579	-1290	407	-696
f <sub>s</sub> DL. (ksi)	6.9	7.0	8.2	6.4	7.1
SDL. (k/ft.)	0.24	0.24	0.24	0.24	0.24
M. SDL. (ft.k)	-152	140	-281	96	-167
M. LL. (ft.k)	-623	910	-940	840	-625
M. IMP. (ft.k)	-169	248	-256	238	-175
TOTAL (ft.k)	-944	1298	-1477	1174	-967
f <sub>s</sub> LL. (ksi)	11.4	11.5	9.4	12.4	9.9
f <sub>s</sub> TOTAL (ksi)	18.3	18.5	17.6	18.8	17.0
VR (k)	-	51.6	-	51.4	-

### INTERIOR GIRDER REACTION TABLE

	PIER 5	PIER 6	PIER 7
R <sub>DL</sub> (k)	118.2	147.7	123.4
R <sub>LL</sub> (k)	69.5	83.4	71.2
IMP (k)	15.1	19.5	15.6
R TOTAL (k)	202.8	250.6	210.2

FOR LEGEND SEE DWG. No. S-94.



**DETAIL A**  
NO SCALE

\* ELEVATION TABULATED FOR THE POINT SHOWN ON DETAIL "A"

### TOP OF WEB ELEVATIONS

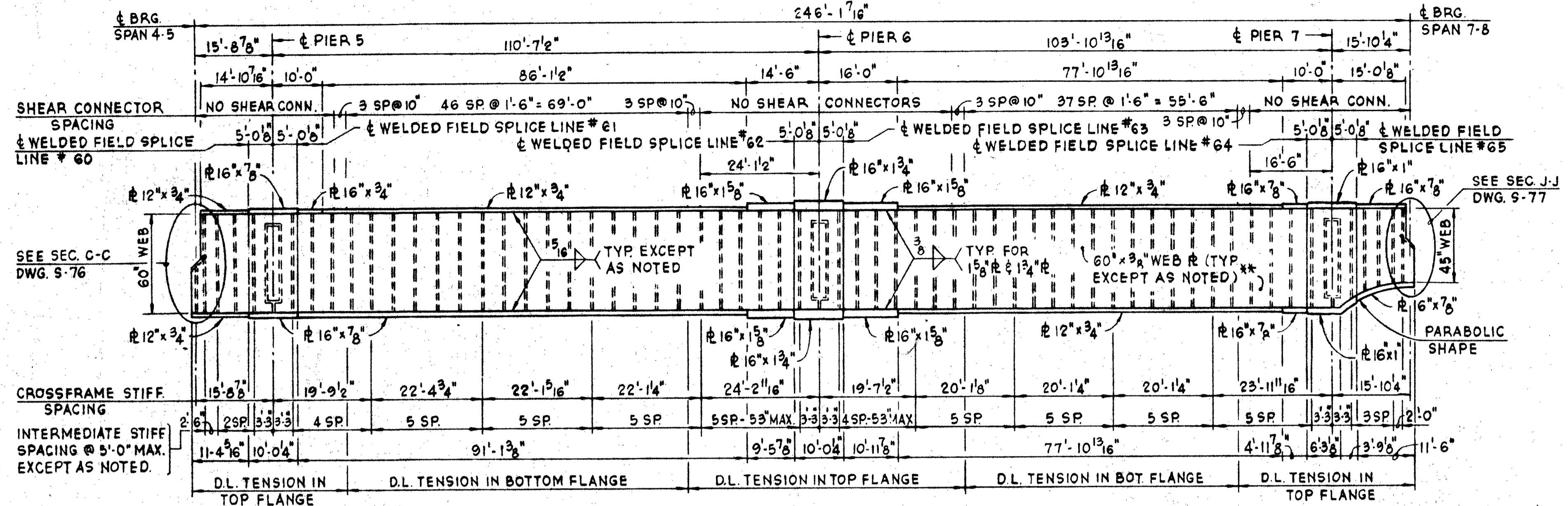
LOCATION	G215	G216	G217	G218	G219	G220	G221	G222	G223	G224	G225
* G BRG. SPAN 4-5	608.260	608.513	608.728	608.952	609.171	609.375	-	-	609.551	609.758	609.949
Q SPLICE LINE 60	608.208	608.442	608.663	608.887	609.107	609.311	-	-	609.507	609.714	609.916
Q PIER 5	608.184	608.411	608.633	608.858	609.078	609.282	-	-	609.487	609.693	609.899
Q SPLICE LINE 61	608.160	608.380	608.604	608.828	609.049	609.253	-	-	609.467	609.672	609.883
Q SPLICE LINE 62	607.639	607.853	608.071	608.290	608.505	608.699	-	608.889	609.078	609.273	609.472
Q PIER 6	607.615	607.829	608.048	608.266	608.481	608.676	-	608.872	609.065	609.260	609.460
Q SPLICE LINE 63	607.591	607.805	608.024	608.242	608.458	608.653	-	608.856	609.051	609.247	609.448
Q SPLICE LINE 64	607.255	607.471	607.690	607.908	608.127	608.345	608.176	607.957	608.186	608.417	608.672
Q PIER 7	607.231	607.452	607.671	607.889	608.108	608.324	608.099	607.841	608.081	608.323	608.584
Q SPLICE LINE 65	607.207	607.433	607.652	607.871	608.089	608.302	608.022	607.724	607.976	608.229	608.496
* G BRG. SPAN 7-8	607.155	607.394	607.613	607.832	608.050	608.250	607.851	607.511	607.765	608.020	608.274
Q NORTHERNMOST CROSS FRAME IN SPAN 6-7	-	-	-	-	-	-	608.789	-	-	-	-
Q NORTHERNMOST CROSS FRAME IN SPAN 5-6	-	-	-	-	-	-	609.300	-	-	-	-

### TABLE B

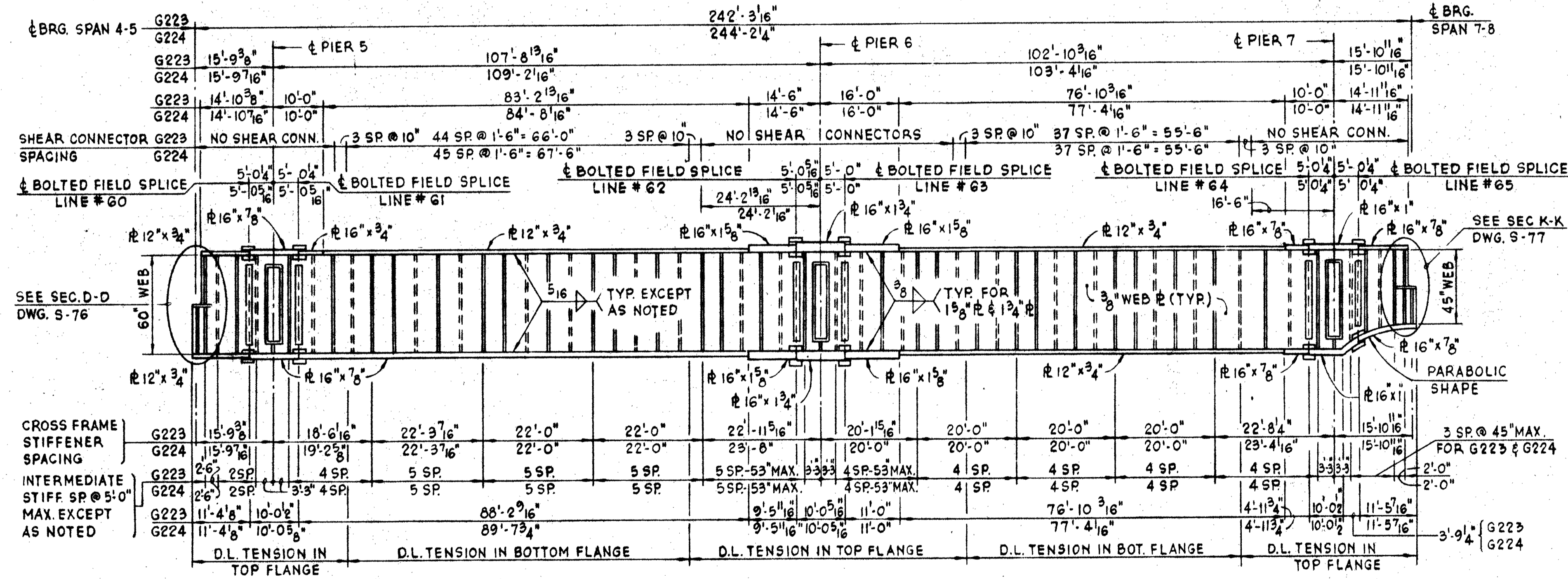
SOUTHBOUND				NORTHBOUND					
BRG. SPAN 4-5		BRG. SPAN 7-8		SOUTH BRG. SPAN 7-8		NORTH BRG. SPAN 7-8		BRG. SPAN 4-5	
GIRDER	WEB DEPTH @ G BRG.	GIRDER	WEB DEPTH @ G BRG.	GIRDER	WEB DEPTH @ G BRG.	GIRDER	WEB DEPTH @ G BRG.	GIRDER	WEB DEPTH @ G BRG.
G207	2'-4 9/16"	G215	2'-3 9/16"	G22	2'-4 1/8"	G14	2'-4 9/16"	G7	2'-4 9/16"
G208	2'-3 1/8"	G216	2'-3 9/16"	G23	2'-4 7/8"	G15	2'-6 3/8"	G8	2'-6 1/2"
G209	2'-4 1/2"	G217	2'-3 9/16"	G24	2'-5"	G16	2'-6 1/2"	G9	2'-6 1/4"
G210	2'-4 7/8"	G218	2'-3 9/16"	G25	2'-5 1/16"	G17	2'-6 3/8"	G10	2'-6 3/16"
G211	2'-5 9/16"	G219	2'-3 9/16"	G26	2'-5 9/16"	G18	2'-6 3/8"	G11	2'-3"
G212	2'-5 15/16"	G220	2'-3 9/16"	G27	2'-5 9/8"	G19	2'-3"	G12	2'-4 9/16"
G213	2'-6 1/4"	G221	1'-8"	G28	2'-5 9/8"	G20	2'-4 9/16"	G14	2'-4 9/16"
G214	2'-4 9/16"	G223	1'-8"	G29	2'-4 9/16"	G22	2'-4 9/16"	G15	2'-4 1/4"
G215	2'-4 9/16"	G224	1'-8"	G30	2'-4 1/8"	G23	2'-6 3/8"	G16	2'-4 15/16"
G216	2'-3 1/8"	G225	1'-10 3/8"	G31	2'-5 13/16"	G24	2'-5 1/16"	G17	2'-4 7/8"
G217	2'-5 1/16"	G226	2'-3 9/16"	G32	2'-5 7/8"	G25	2'-5 7/8"	G18	2'-4 11/16"
G218	2'-5 9/8"	G227	2'-3 9/16"	G33	2'-5 9/8"	G26	2'-4 3/4"	G19	2'-6 7/16"
G219	2'-5 1/16"	G228	2'-3 9/16"	G34	2'-5 11/16"	G27	2'-4 9/16"	G20	2'-4 9/16"
G220	2'-5 1/8"	G229	2'-3 9/16"	G35	2'-5 3/4"	G28	2'-6 1/16"		
G223	2'-5 1/2"	G230	2'-3 9/16"	G36	2'-5 7/8"				
G224	2'-5 9/16"	G231	2'-3 9/16"	G37	2'-5 7/8"				
G225	2'-4 9/16"	G275	1'-8"	G38	2'-4 3/16"				
		G276	1'-8"						
		G277	1'-8"						
		G278	1'-10 3/8"						

**GIRDER ELEVATIONS  
G-223 THRU G-225 AND  
TOP OF WEB ELEVATIONS**

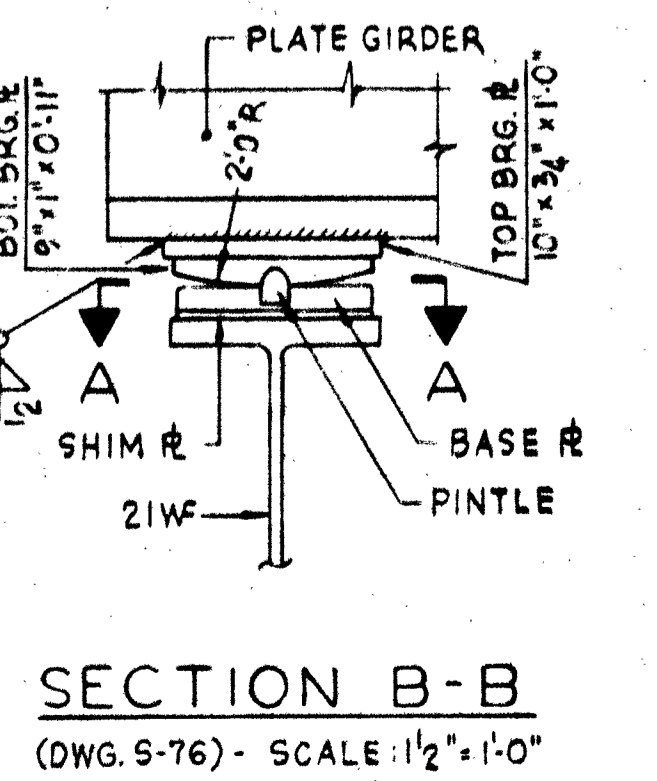
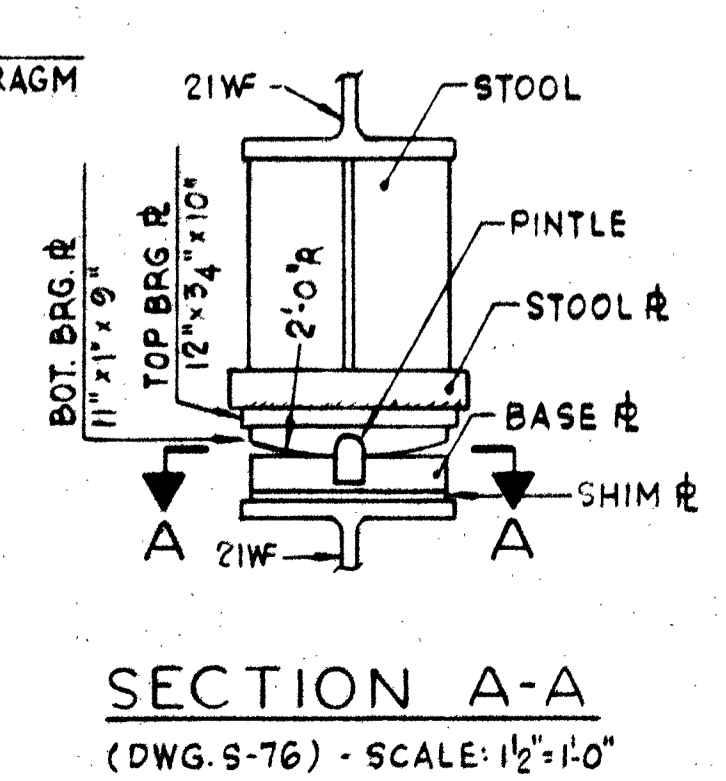
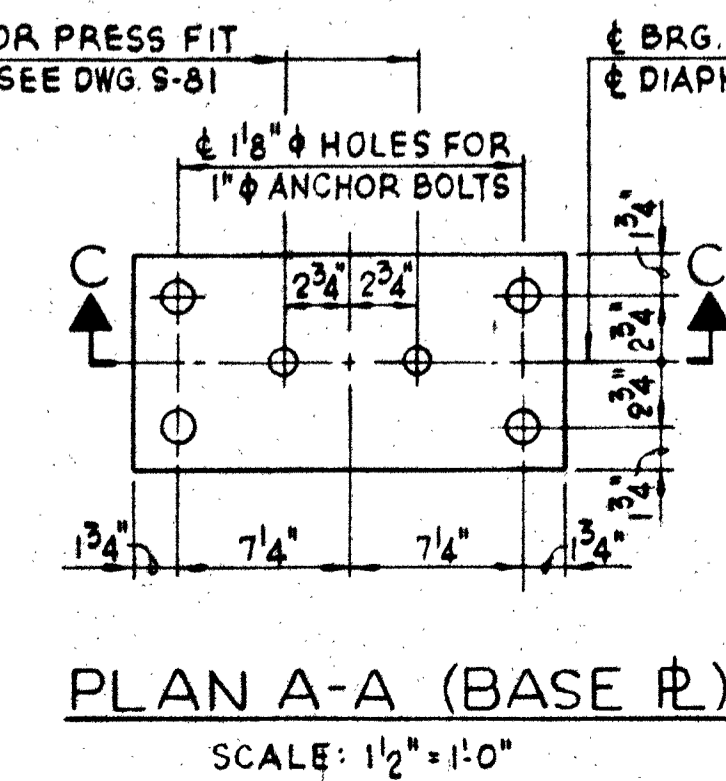
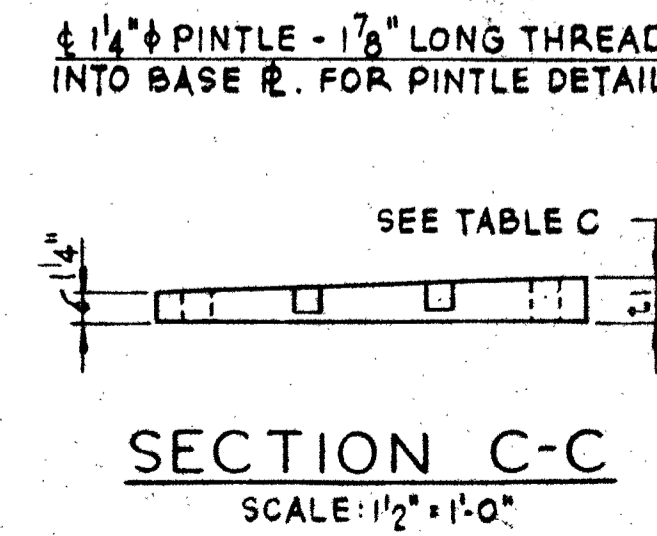
F.A.L. 74-SECTION 81-1HV8  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED      DATE:



NOTE:  
CROSS FRAME & INTERMEDIATE STIFFENERS  
ON INTERIOR FACE ONLY OF GIRDER G225



NOTE:  
ALTERNATE INTERMEDIATE STIFFENERS N.S. & F.S.  
AS SHOWN FOR GIRDERS G223 & G224

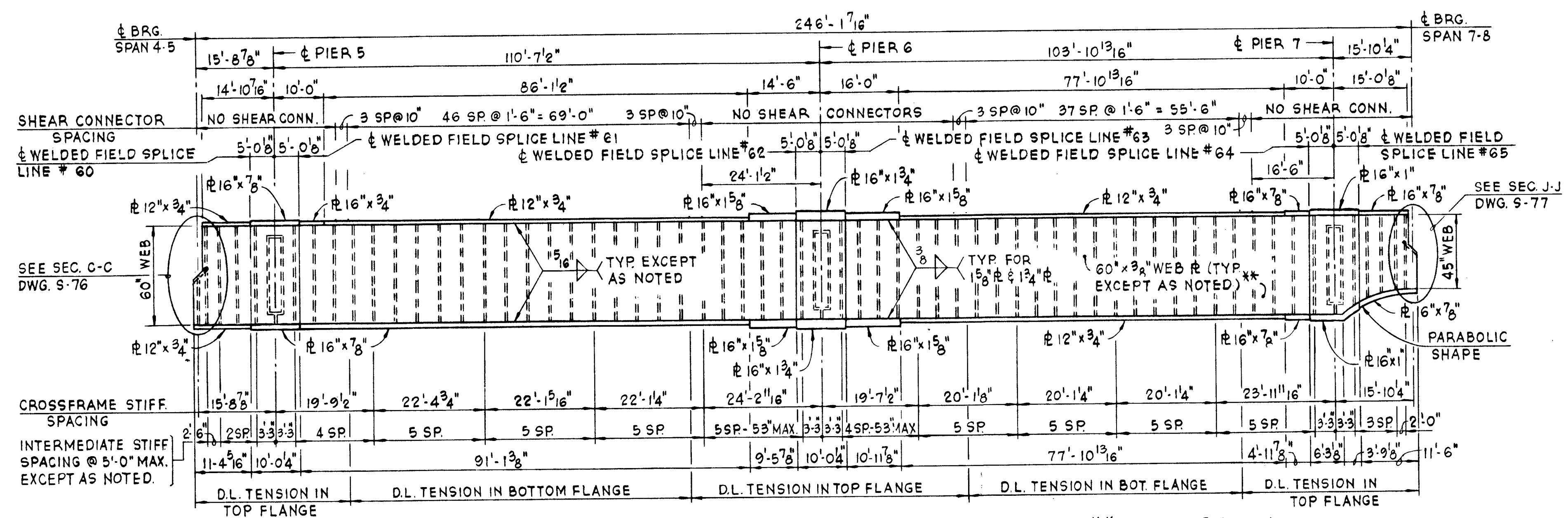


### TABLE C

BEARING LOCATION	t
ALL BRG'S EXCEPT AS NOTED	1 1/4"
G22/G30	1 3/4"
G29/G38	1 7/8"

NOTES  
WORK THIS DWG. WITH DWG.'S S-69, S74 THRU S-77.  
ALL STRUCTURAL STEEL SHALL BE A.S.T.M. A36.  
ALL DIMENSIONS ARE GIVEN ALONG & WEB ON  
A HORIZONTAL PLANE @ 50°F TEMP.  
ALL BRG. & CROSS FRAME STIFF. R'S TO BE VERTICAL.  
SPACE INTERMEDIATE STIFF. R'S TO CLEAR & WELDED SPLICES  
BY 9" MIN.  
FOR SHOP SPlice DETAIL, SEE DWG. S-87.  
FOR WELDED FIELD SPlice DETAIL, SEE DWG. S-72.

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED BY E.S. MARTINS  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN



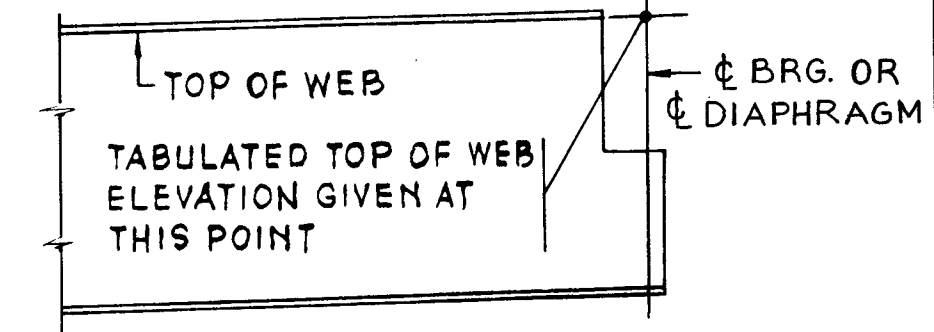
**INTERIOR GIRDER MOMENT TABLE**

ITEM	PIER 5	0.4 SPAN 5-6	PIER 6	0.6 SPAN 6-7	PIER 7
Is (in. <sup>4</sup> )	32692	27512	60147	23358	36521
Ic (in. <sup>4</sup> )	-	68456	-	55201	-
Ss (in. <sup>3</sup> )	1059	1000	1894	760	1178
Sc (in. <sup>3</sup> )	-	1351	-	1044	-
DL (k/ft.)	0.98	1.02	0.98	1.05	1.02
M.DL. (ft.k)	-605	579	-1290	407	-696
fs DL. (ksi)	6.9	7.0	8.2	6.4	7.1
SDL (k/ft.)	0.24	0.24	0.24	0.24	0.24
M. SDL. (ft.k)	-152	140	-281	96	-167
M. LL. (ft.k)	-623	910	-940	840	-625
M. IMP. (ft.k)	-169	248	-256	238	-175
TOTAL (ft.k)	-944	1298	-1477	1174	-967
fs LL. (ksi)	11.4	11.5	9.4	12.4	9.9
fs TOTAL (ksi)	18.3	18.5	17.6	18.8	17.0
VR (k)	-	51.6	-	51.4	-

**INTERIOR GIRDER REACTION TABLE**

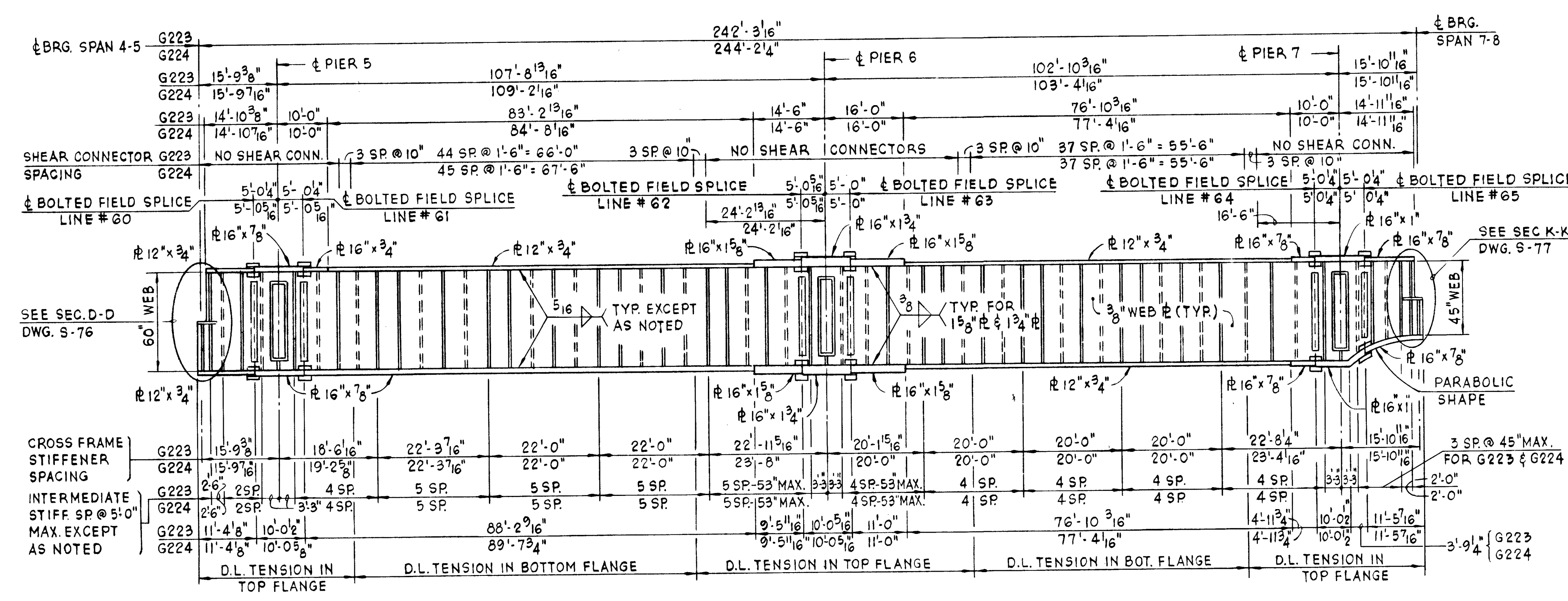
	PIER 5	PIER 6	PIER 7
RDL (k)	118.2	147.7	123.4
RL (k)	69.5	83.4	71.2
IMP (k)	15.1	19.5	15.6
R TOTAL (k)	202.8	250.6	210.2

FOR LEGEND SEE DWG. No. S-94.



NOTE:  
CROSS FRAME & INTERMEDIATE STIFFENERS ON INTERIOR FACE ONLY OF GIRDER G225

\* ELEVATION TABULATED FOR THE POINT SHOWN ON DETAIL "A"



**TOP OF WEB ELEVATIONS**

LOCATION	G215	G216	G217	G218	G219	G220	G221	G222	G223	G224	G225
* C BRG. SPAN 4-5	608.260	608.513	608.728	608.952	609.171	609.375	-	-	609.551	609.758	609.949
C SPLICE LINE 60	608.208	608.442	608.663	608.887	609.107	609.311	-	-	609.507	609.714	609.916
C PIER 5	608.184	608.411	608.633	608.858	609.078	609.282	-	-	609.487	609.693	609.899
C SPLICE LINE 61	608.160	608.380	608.604	608.828	609.049	609.253	-	-	609.467	609.672	609.883
C SPLICE LINE 62	607.639	607.853	608.071	608.290	608.505	608.699	-	608.889	609.078	609.273	609.472
C PIER 6	607.615	607.829	608.048	608.266	608.481	608.676	-	608.872	609.065	609.260	609.460
C SPLICE LINE 63	607.591	607.805	608.024	608.242	608.458	608.653	-	608.856	609.051	609.247	609.448
C SPLICE LINE 64	607.255	607.471	607.690	607.908	608.127	608.345	608.176	607.957	608.186	608.417	608.672
C PIER 7	607.231	607.452	607.671	607.889	608.108	608.324	608.099	607.841	608.081	608.323	608.584
C SPLICE LINE 65	607.207	607.433	607.652	607.871	608.089	608.302	608.022	607.724	607.976	608.229	608.496
* C BRG. SPAN 7-8	607.155	607.394	607.613	607.832	608.050	608.250	607.851	607.511	607.765	608.020	608.274
* C DIAPHRAGM IN SPAN 6-7	-	-	-	-	-	-	608.789	-	-	-	-
* C DIAPHRAGM IN SPAN 5-6	-	-	-	-	-	-	-	609.300	-	-	-

NOTE:  
ALTERNATE INTERMEDIATE STIFFENERS N.S. & F.S. AS SHOWN FOR GIRDERS G223 & G224

**TABLE C**

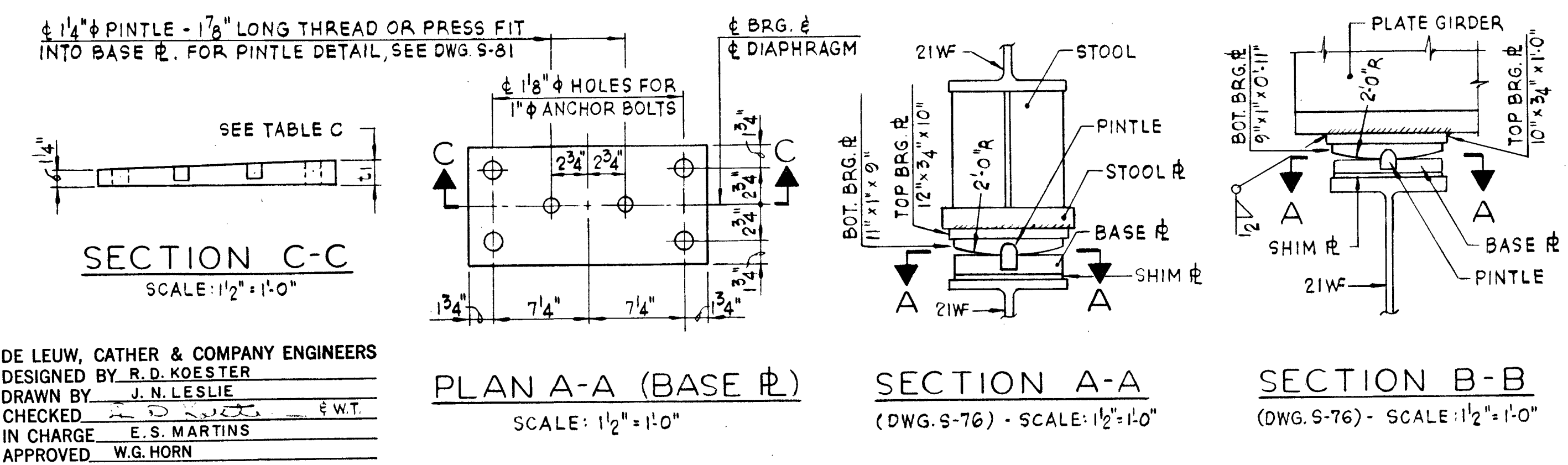
BEARING LOCATION	t <sub>1</sub>
ALL BRG'S EXCEPT AS NOTED	1 1/4"
G22/G30	1 3/4"
G29/G38	1 7/8"

**TABLE B**

SOUTH BOUND				NORTH BOUND			
BRG. SPAN 4-5		BRG. SPAN 7-8		SOUTH BRG. SPAN 7-8		NORTH BRG. SPAN 7-8	
GIRDER	WEB DEPTH @ C BRG.	GIRDER	WEB DEPTH @ C BRG.	GIRDER	WEB DEPTH @ C BRG.	GIRDER	WEB DEPTH @ C BRG.
G207	2'-4 9/16"	G215	2'-3 9/16"	G22	2'-4 1/8"	G14	2'-4 9/16"
G208	2'-3 1/8"	G216	2'-3 9/16"	G23	2'-4 7/8"	G15	2'-6 1/2"
G209	2'-4 1/2"	G217	2'-3 9/16"	G24	2'-5"	G16	2'-6 1/2"
G210	2'-4 7/8"	G218	2'-3 9/16"	G25	2'-5 1/16"	G17	2'-6 3/16"
G211	2'-5 9/16"	G219	2'-3 9/16"	G26	2'-5 9/16"	G18	2'-3"
G212	2'-5 15/16"	G220	2'-3 9/16"	G27	2'-5 9/8"	G19	2'-3"
G213	2'-6 1/4"	G221	1'-8"	G28	2'-5 9/8"	G20	2'-4 9/16"
G214	2'-4 9/16"	G222	1'-8"	G29	2'-4 9/16"	G21	2'-4 1/4"
G215	2'-4 9/16"	G223	1'-8"	G30	2'-4 1/8"	G22	2'-6 3/8"
G216	2'-3 1/8"	G224	1'-8"	G31	2'-5 1/16"	G23	2'-5 1/16"
G217	2'-5 11/16"	G225	1'-10 3/8"	G32	2'-5 7/8"	G24	2'-4 1/16"
G218	2'-5 9/8"	G226	2'-3 9/16"	G33	2'-5 9/8"	G25	2'-4 3/4"
G219	2'-5 7/16"	G227	2'-3 9/16"	G34	2'-5 1/16"	G26	2'-4 1/16"
G220	2'-5 1/8"	G228	2'-3 9/16"	G35	2'-5 1/16"	G27	2'-4 9/16"
G221	2'-5 1/2"	G229	2'-3 9/16"	G36	2'-5 7/8"	G28	2'-4 9/16"
G222	2'-5 1/2"	G230	2'-3 9/16"	G37	2'-5 7/8"	G29	2'-4 9/16"
G223	2'-5 1/8"	G231	2'-3 9/16"	G38	2'-4 3/16"		
G224	2'-5 1/8"						
G225	2'-4 9/16"						

**GIRDER ELEVATIONS G-223 THRU G-225 AND TOP OF WEB ELEVATIONS**

F.A. 174-SECTION 81-1HVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:



**NOTES**

WORK THIS DWG. WITH DWG.'S S-69, S74 THRU S-77.

ALL STRUCTURAL STEEL SHALL BE A.S.T.M. A-36.

ALL DIMENSIONS ARE GIVEN ALONG C WEB ON A HORIZONTAL PLANE @ 50°F TEMP.

ALL BRG. & CROSS FRAME STIFF. R'S TO BE VERTICAL.

SPACE INTERMEDIATE STIFF. R'S TO CLEAR C WELDED SPLICES BY 9" MIN.

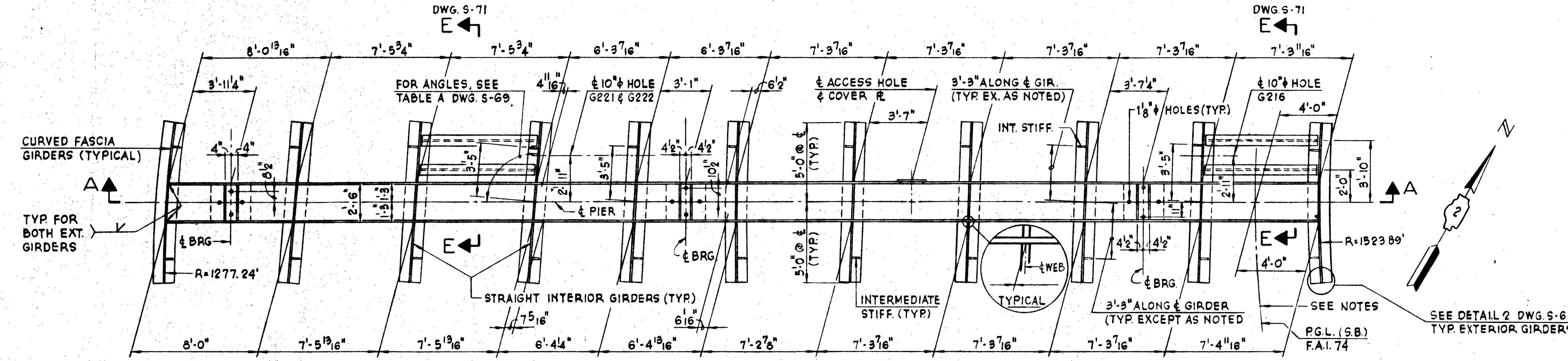
FOR SHOP SPLICE DETAIL, SEE DWG. S-87.

FOR WELDED FIELD SPLICE DETAIL, SEE DWG. S-72.

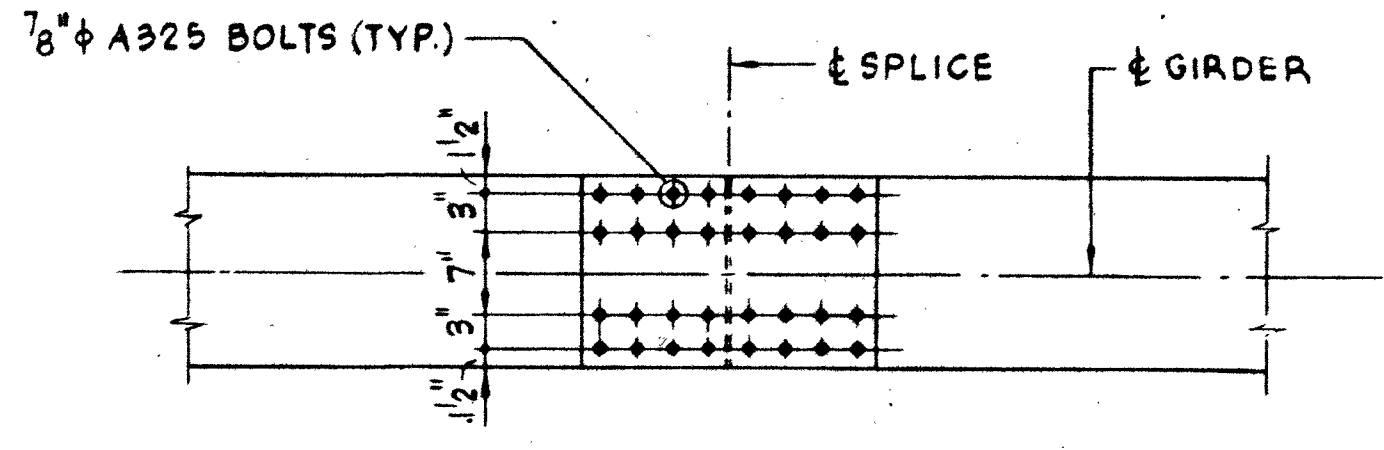
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED BY E.S. MARTINS  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.L. 74	81-1HV8	ROCK ISLAND	298	122
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

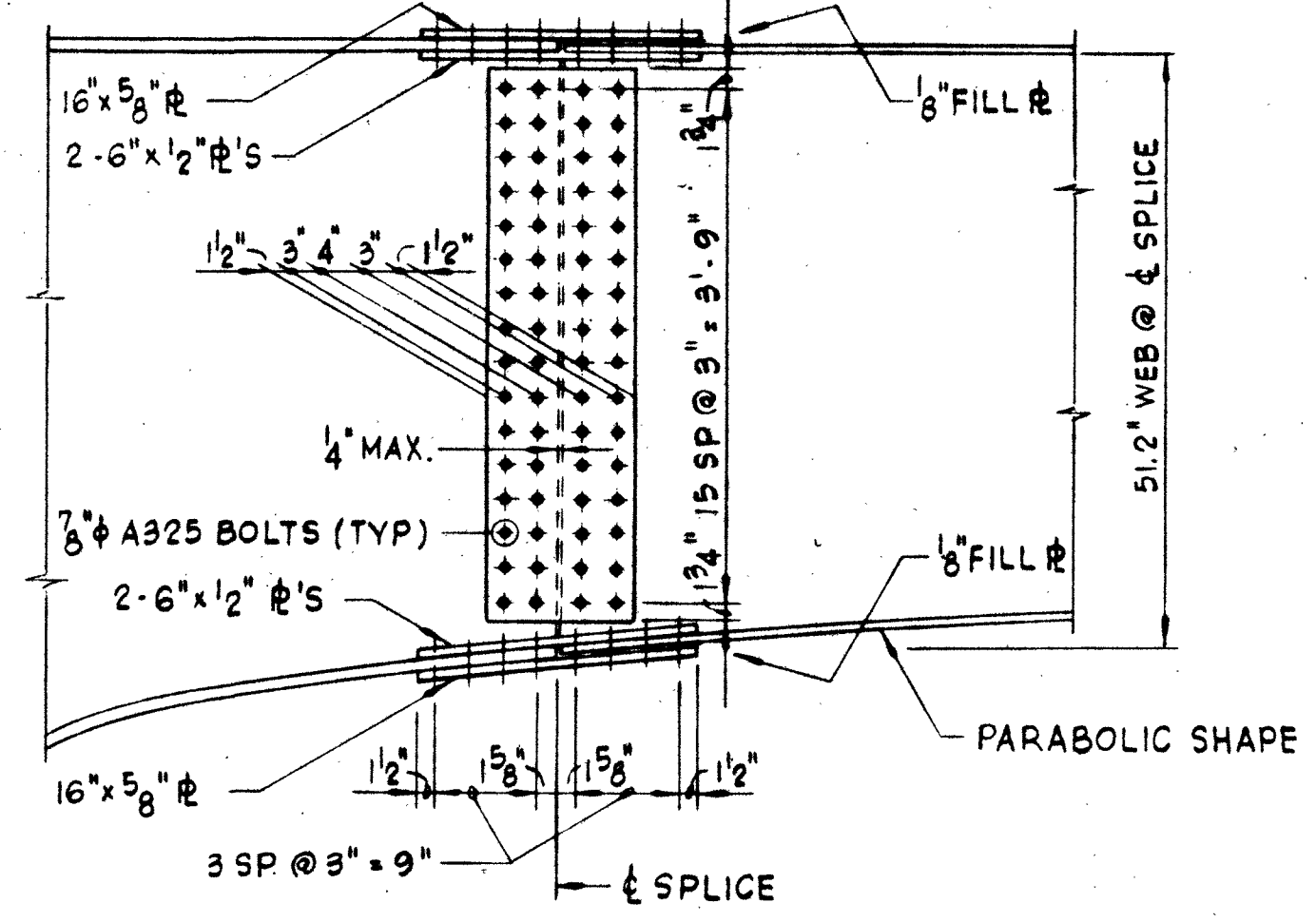
DWG. NO. S-75



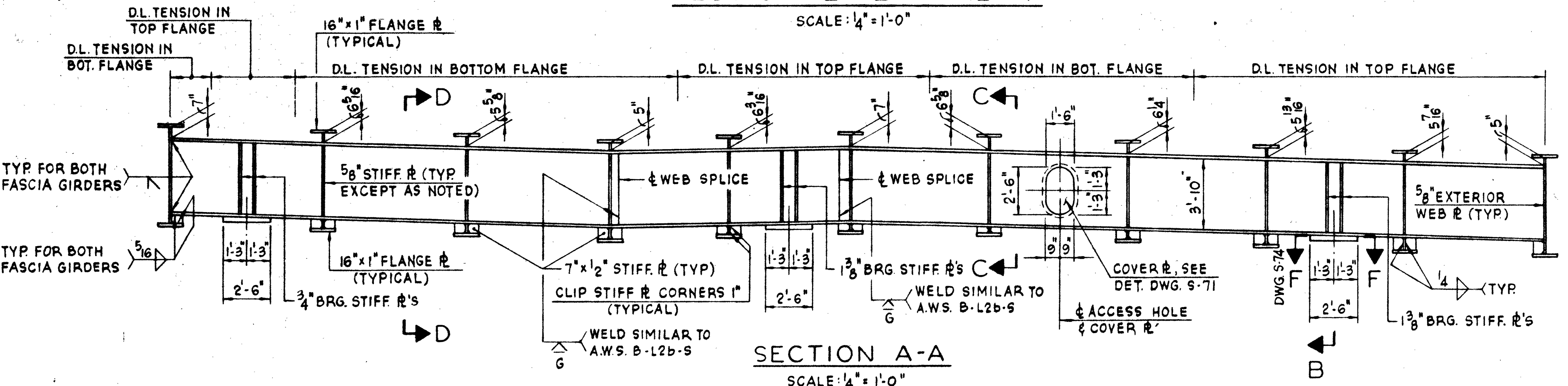
SECTIONAL PLAN PIER 7



PLAN - FLANGE SPLICE LINE 65  
(FOR G222 THRU G224)  
SCALE: 3/4" = 1'-0"

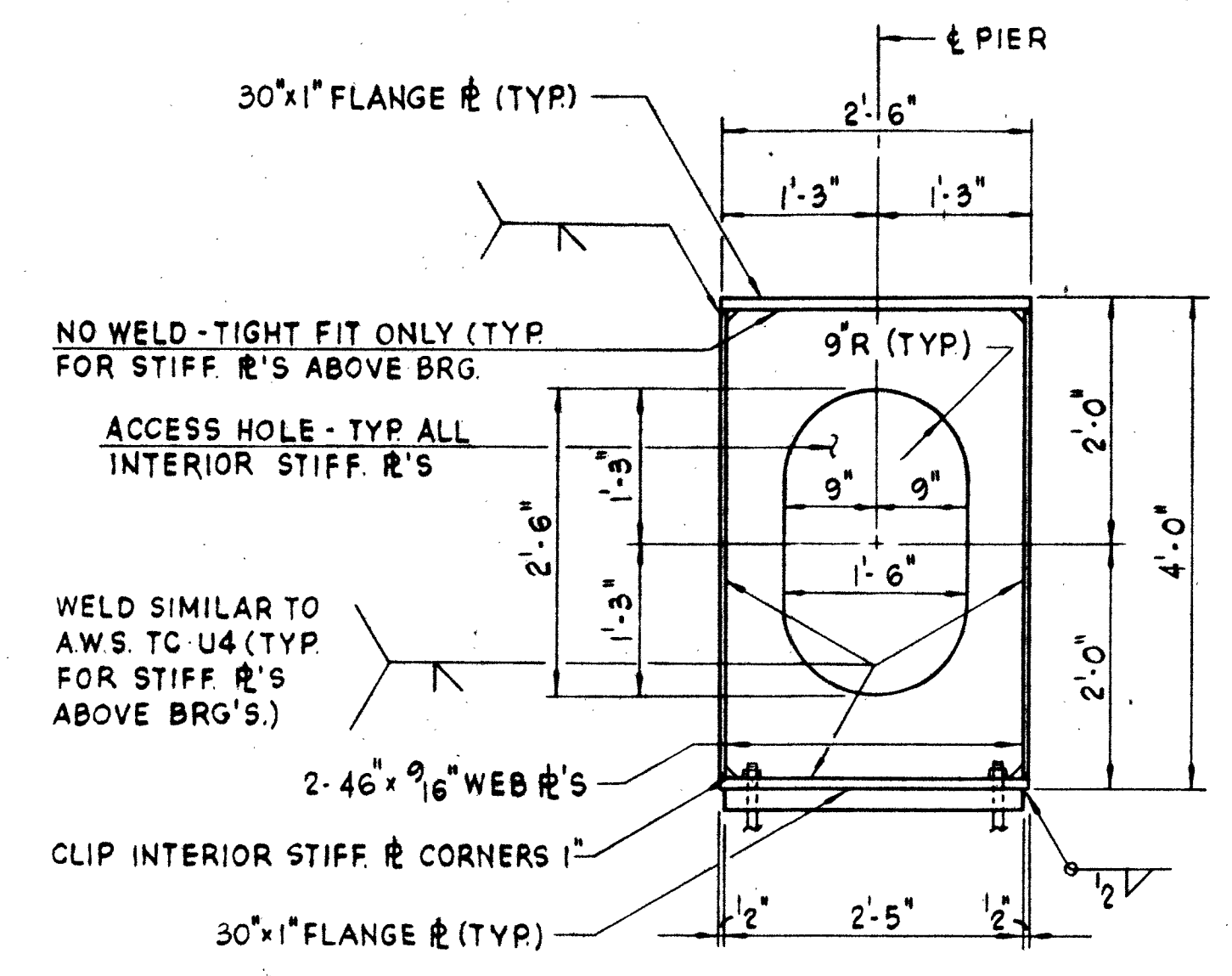


ELEVATION - BOLTED FIELD SPLICE LINE 65  
(FOR G222 THRU G224)  
SCALE: 3/4" = 1'-0"

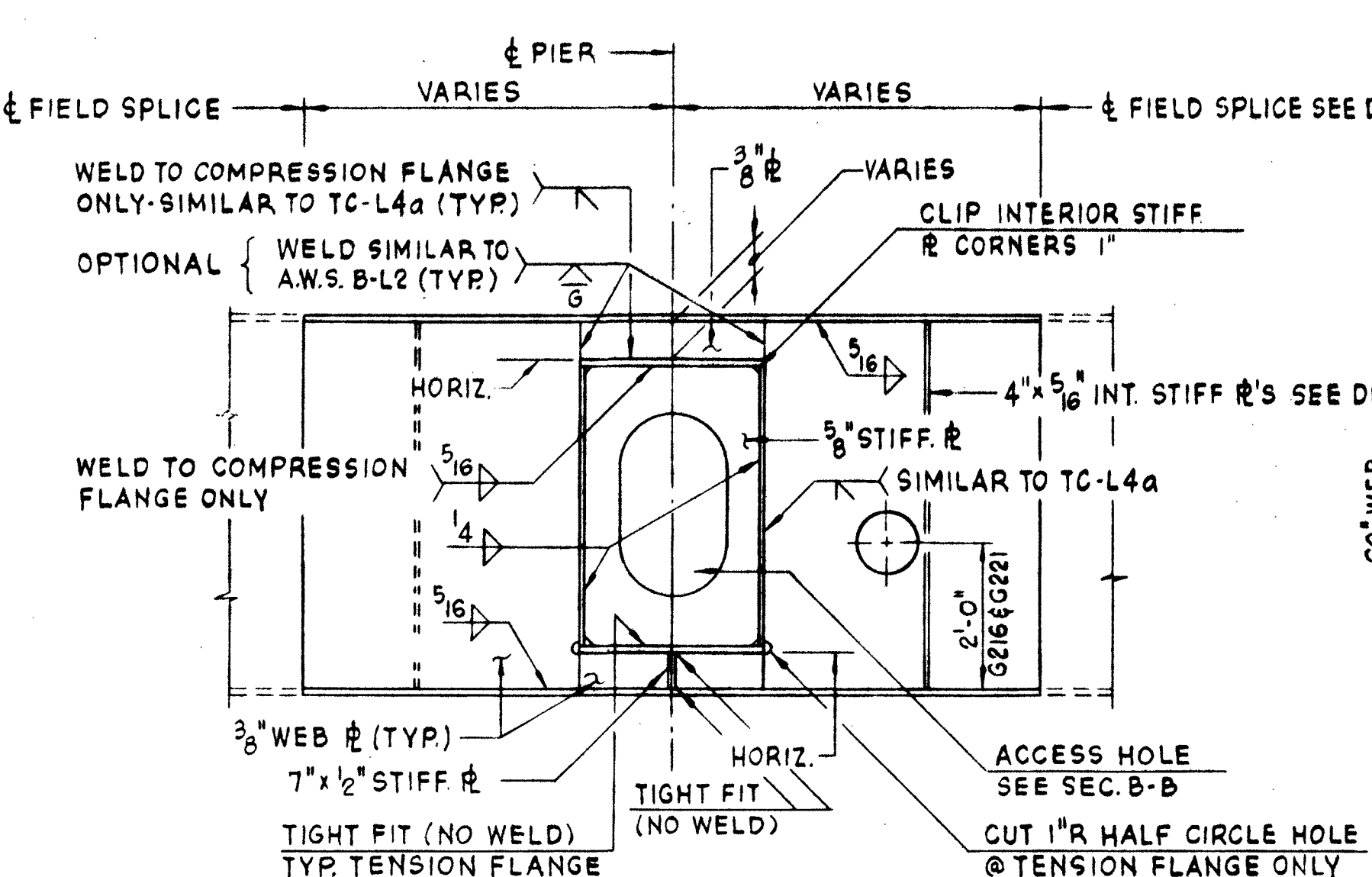


SECTION A-A  
SCALE: 1/4" = 1'-0"

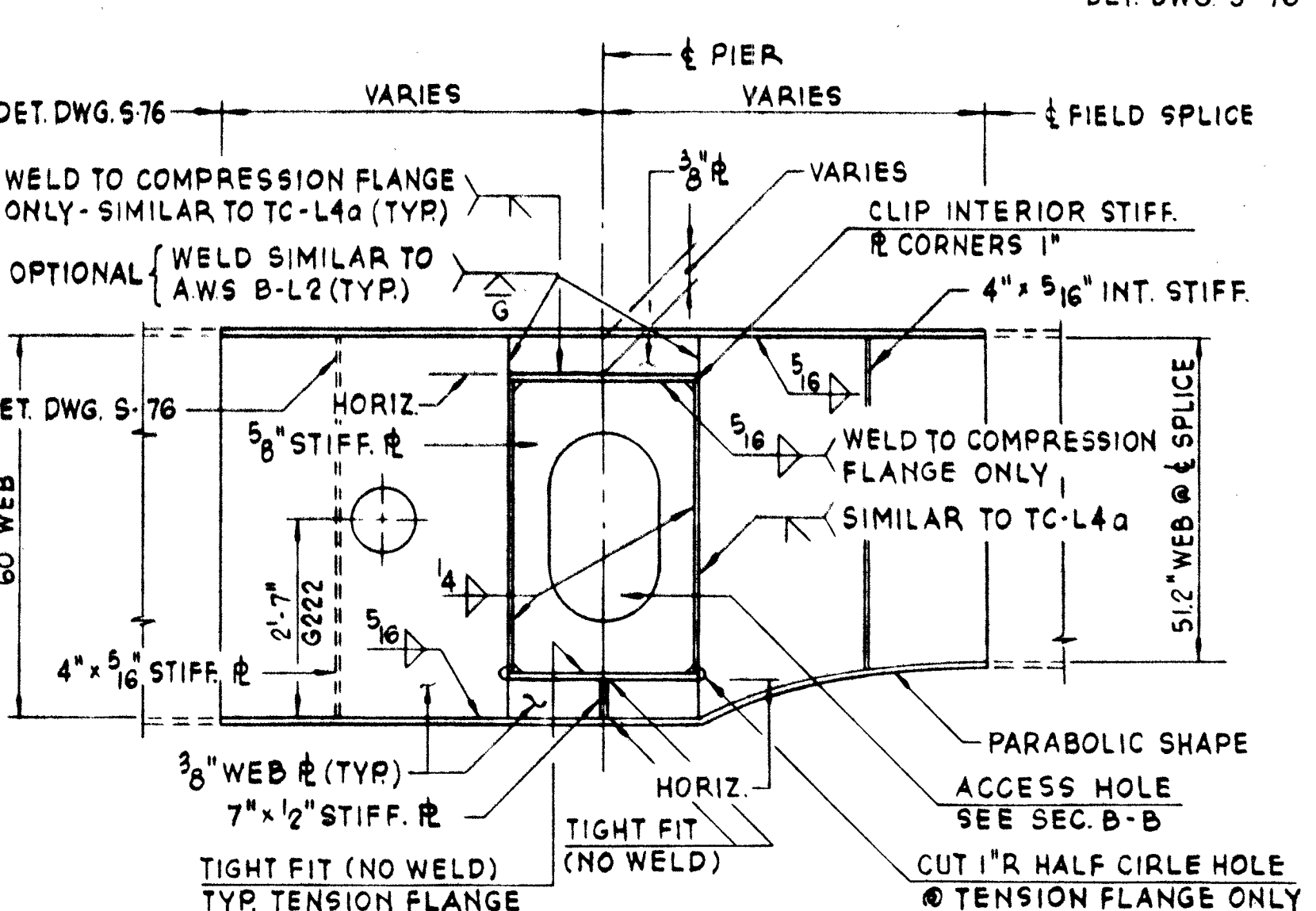
NOTE "A"  
CUT ANGLE ENDS @ 45° AS SHOWN TO FACILITATE ECONOMICAL USE OF CONN. R'S. PROVIDE A MIN. LENGTH OF 12" OF 5/16" FILLET WELD @ EA. CONNECTION.



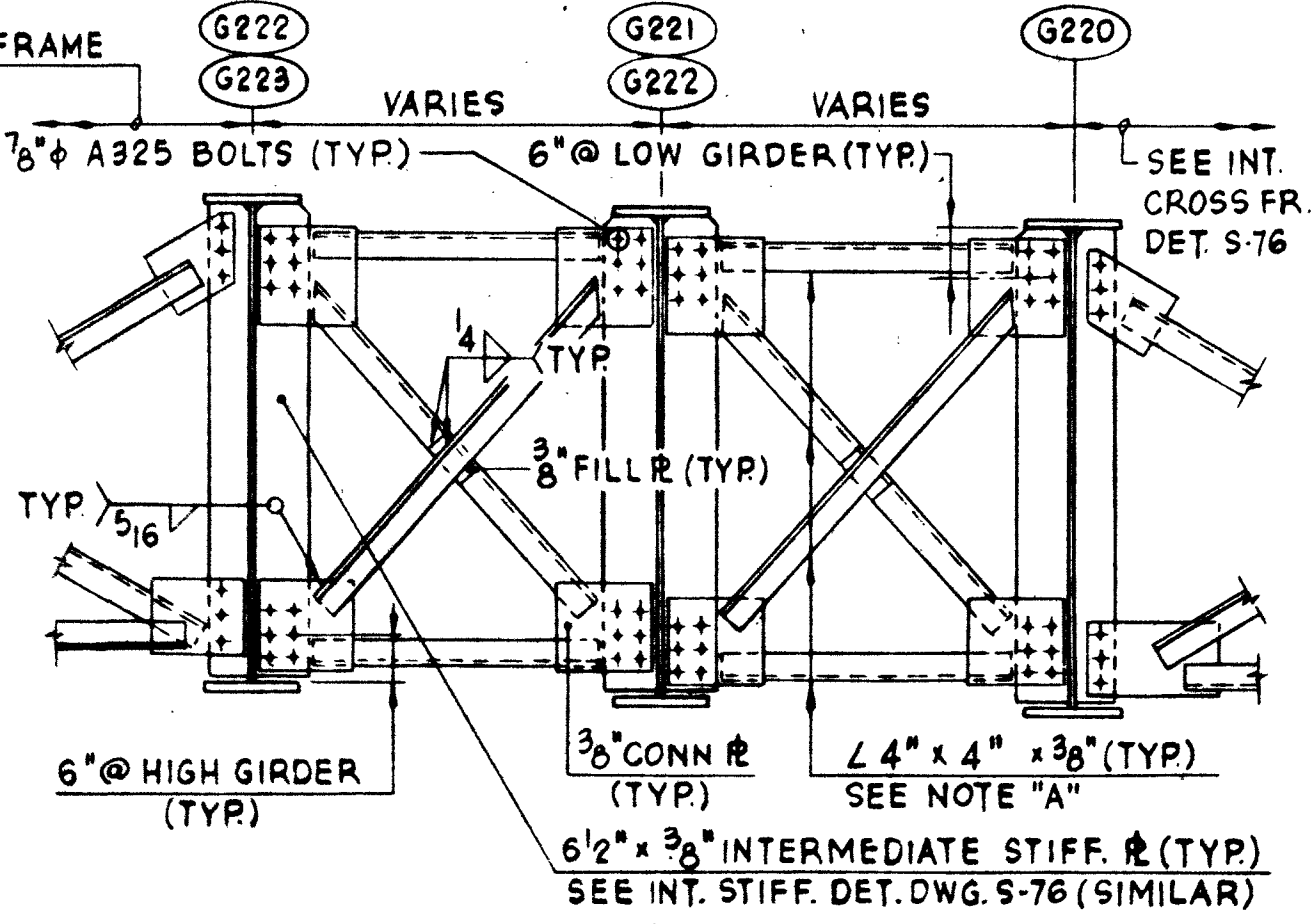
SECTION B-B  
(TYP. SECTION @ BRG.)  
SCALE: 3/4" = 1'-0"



SECTION C-C  
(TYP. FOR INTERIOR GIRDERS G216 THRU G221)  
SCALE: 1/2" = 1'-0"



SECTION D-D  
(TYP. FOR INTERIOR GIRDERS G222 THRU G224)  
SCALE: 1/2" = 1'-0"



SECTION K-K  
(DWG. S-69)  
SCALE: 1/2" = 1'-0"

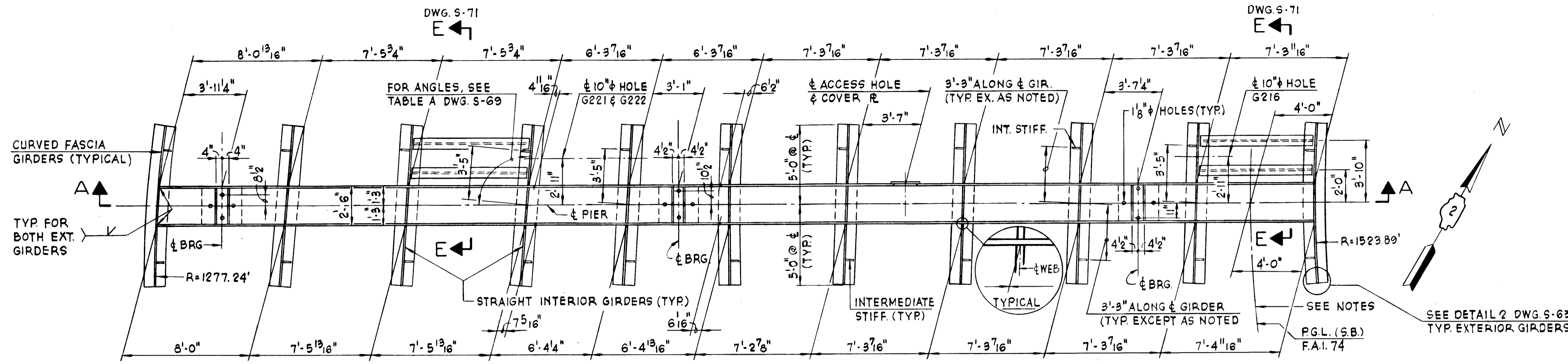
NOTES  
WORK THIS DWG. WITH DWGS. S-69, S-72, S-73, S-74, S-76 & S-77.  
FOR TOP OF GIRDER WEB ELEV., SEE DWG. S-73.  
ALL STIFF. R'S & GIRDER WEBS TO BE VERTICAL.  
FOR WELDED FIELD SPLICE DETAILS, SEE DWG. S-72.

CROSS GIRDERS AT PIER 7 (S.B.) & MISCELLANEOUS DETAILS  
F.A.L. 74 - SECTION 81-1HV8  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED BY E.D. KOESTER  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

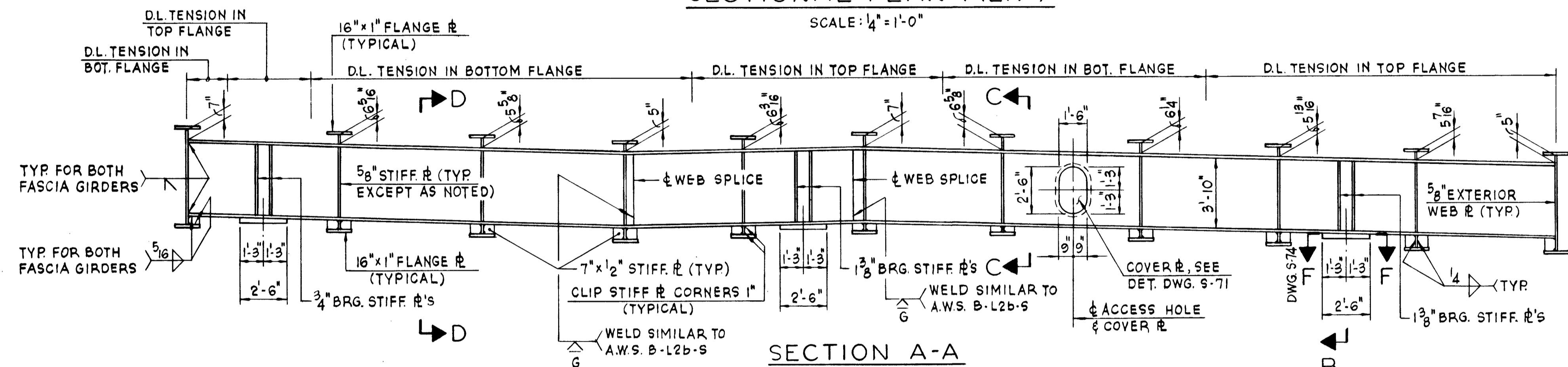
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	278	122-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-75-A



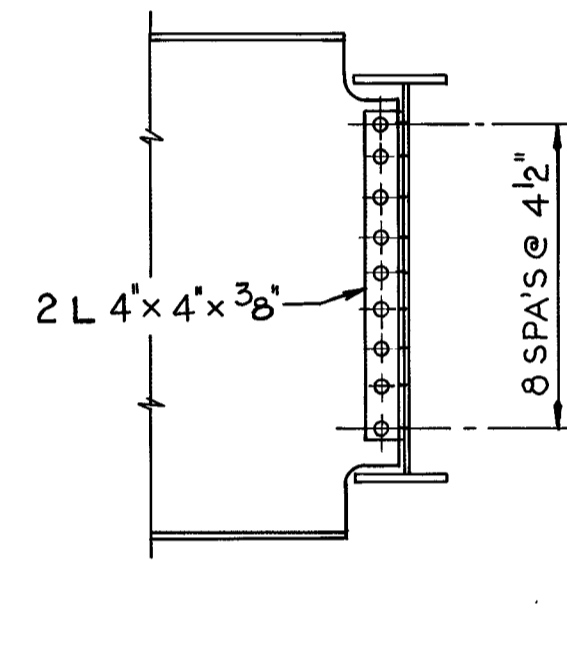
SECTIONAL PLAN PIER 7

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



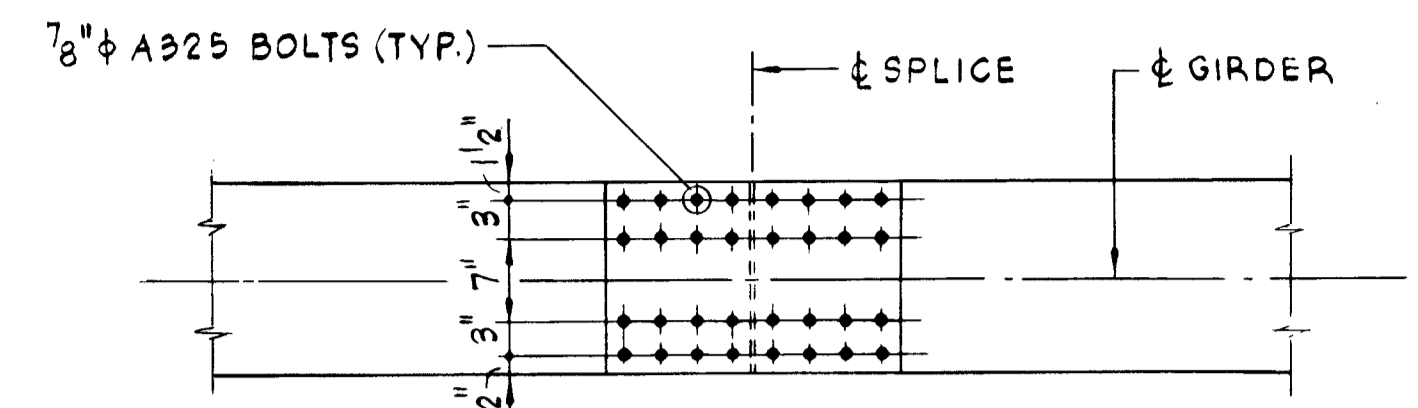
SECTION A-A

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



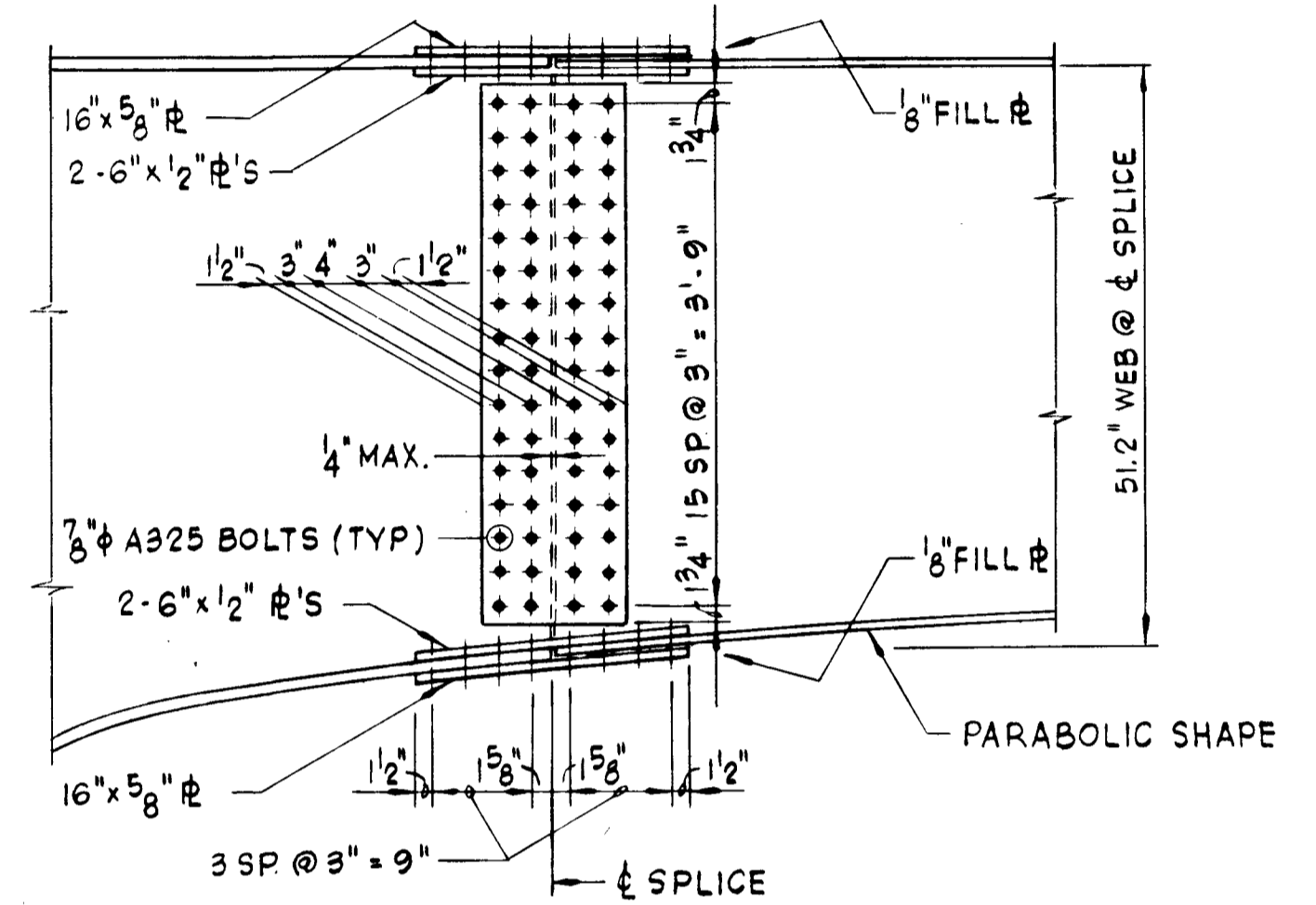
SECTION L-L

SCALE: 1/2" = 1'-0"



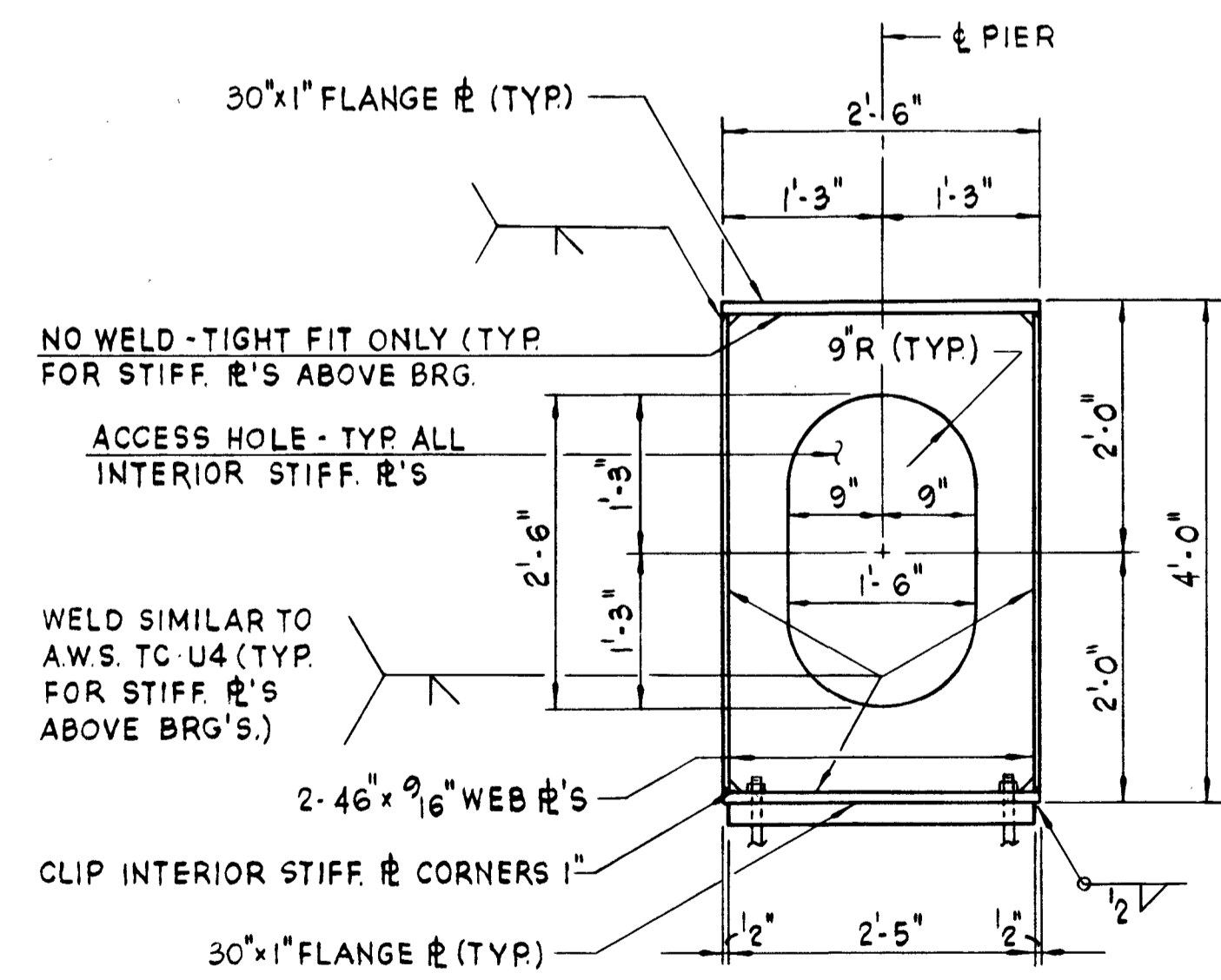
PLAN - FLANGE SPLICE LINE 65

(FOR G222 THRU G224)  
SCALE: 3/4" = 1'-0"



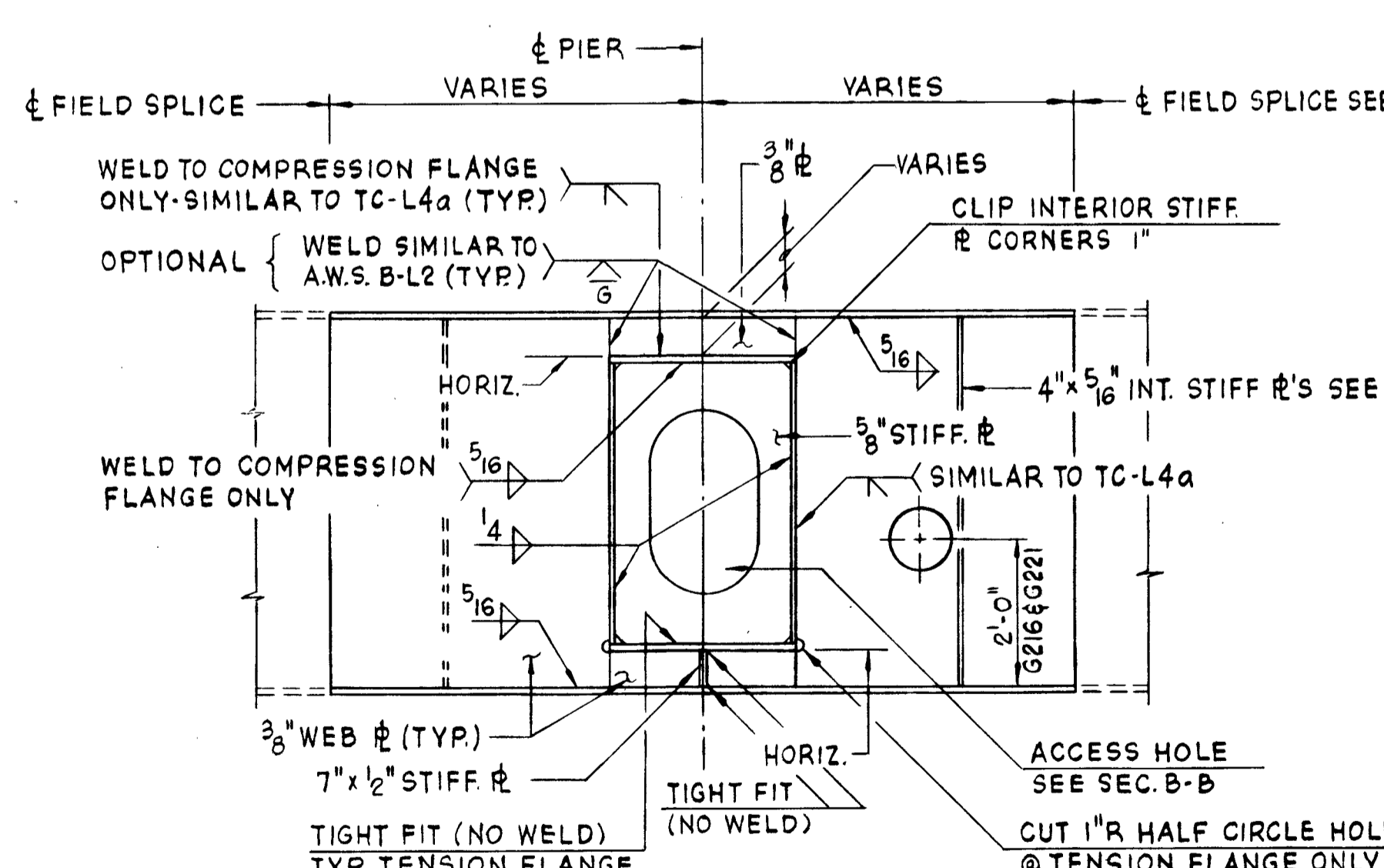
ELEVATION - BOLTED FIELD SPLICE LINE 65

(FOR G222 THRU G224)  
SCALE: 3/4" = 1'-0"



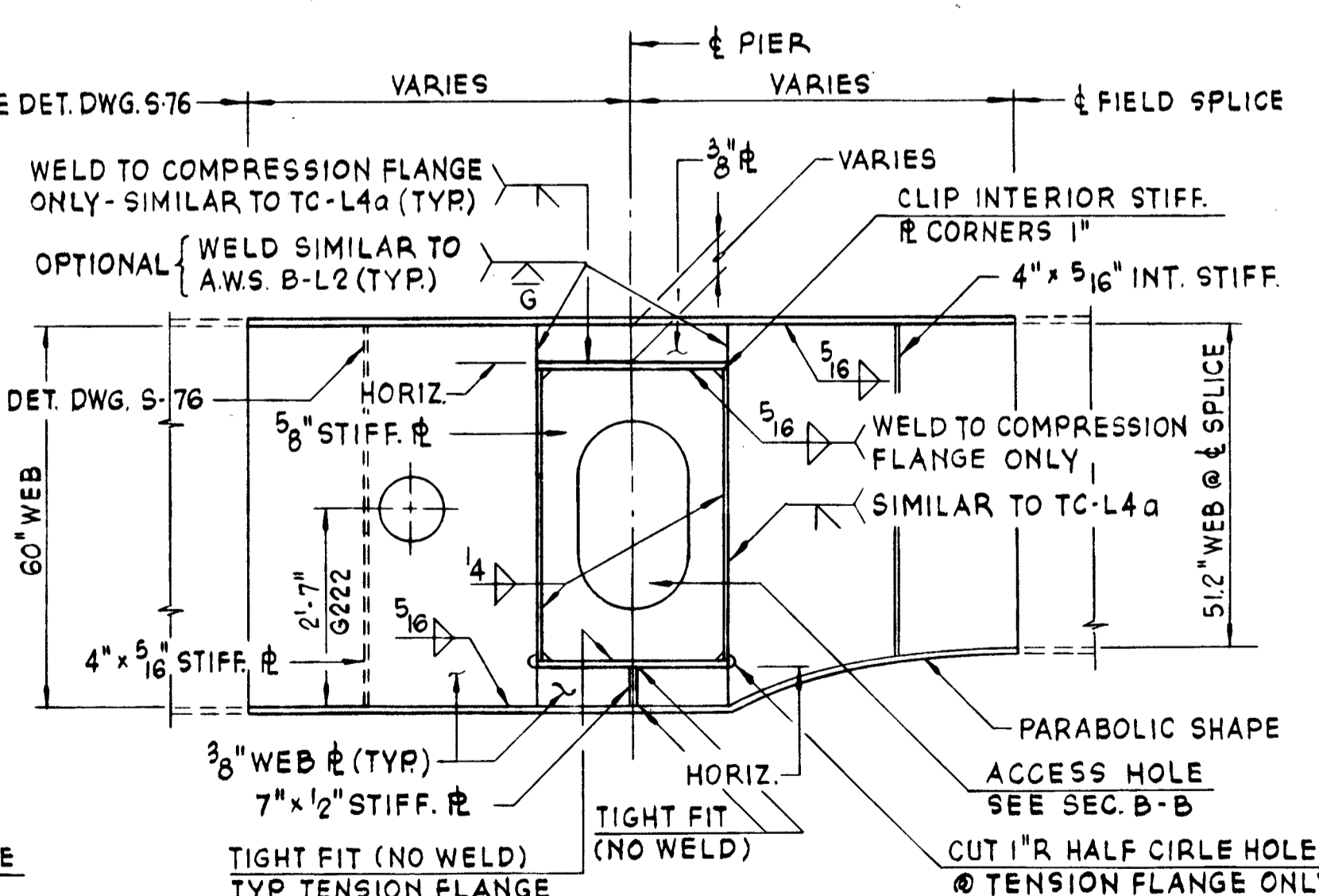
SECTION B-B

(TYP SECTION @ BRG)  
SCALE: 3/4" = 1'-0"



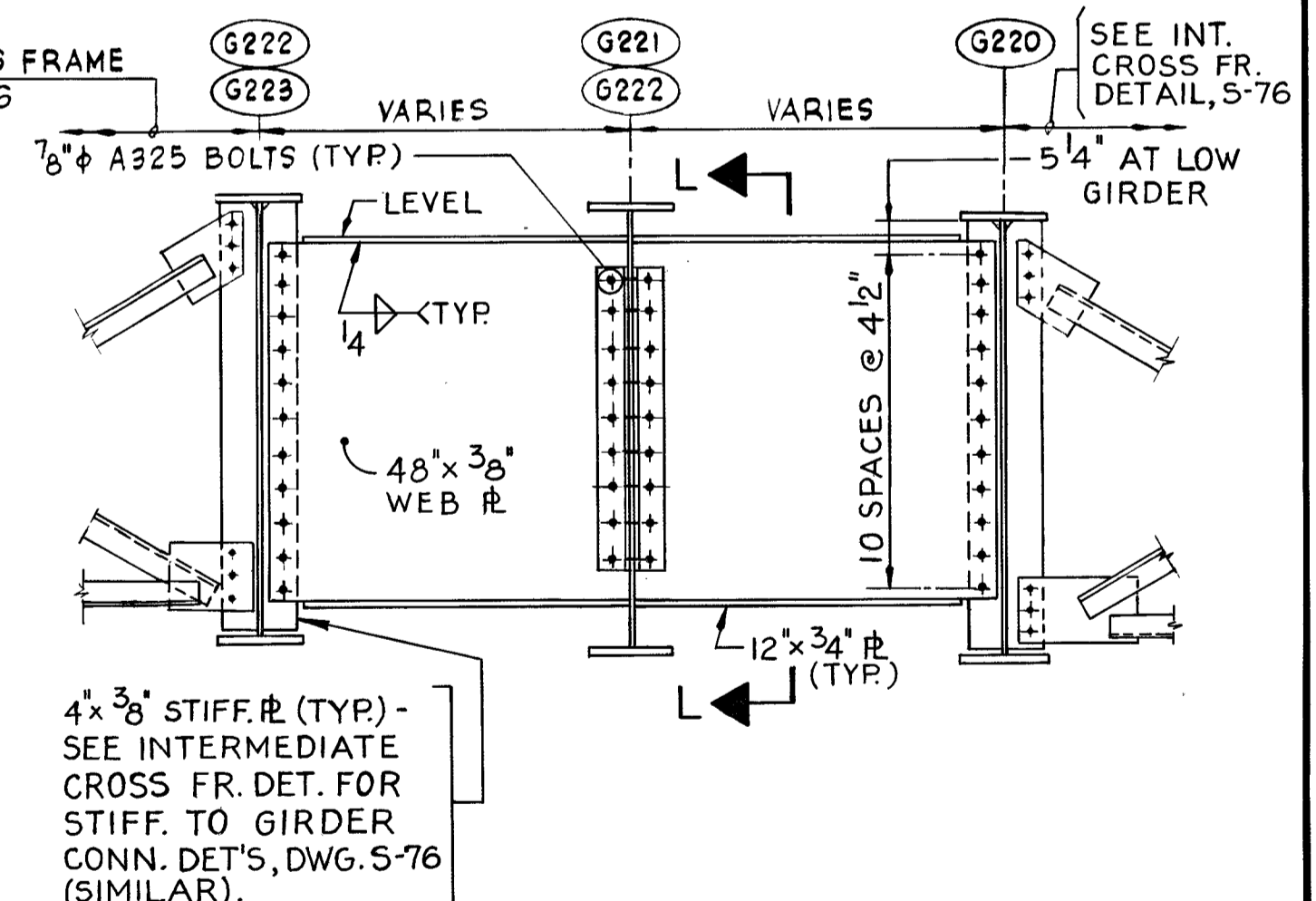
SECTION C-C

(TYP FOR INTERIOR GIRDERS G216 THRU G221)  
SCALE: 1/2" = 1'-0"



SECTION D-D

(TYP FOR INTERIOR GIRDERS G222 THRU G224)  
SCALE: 1/2" = 1'-0"

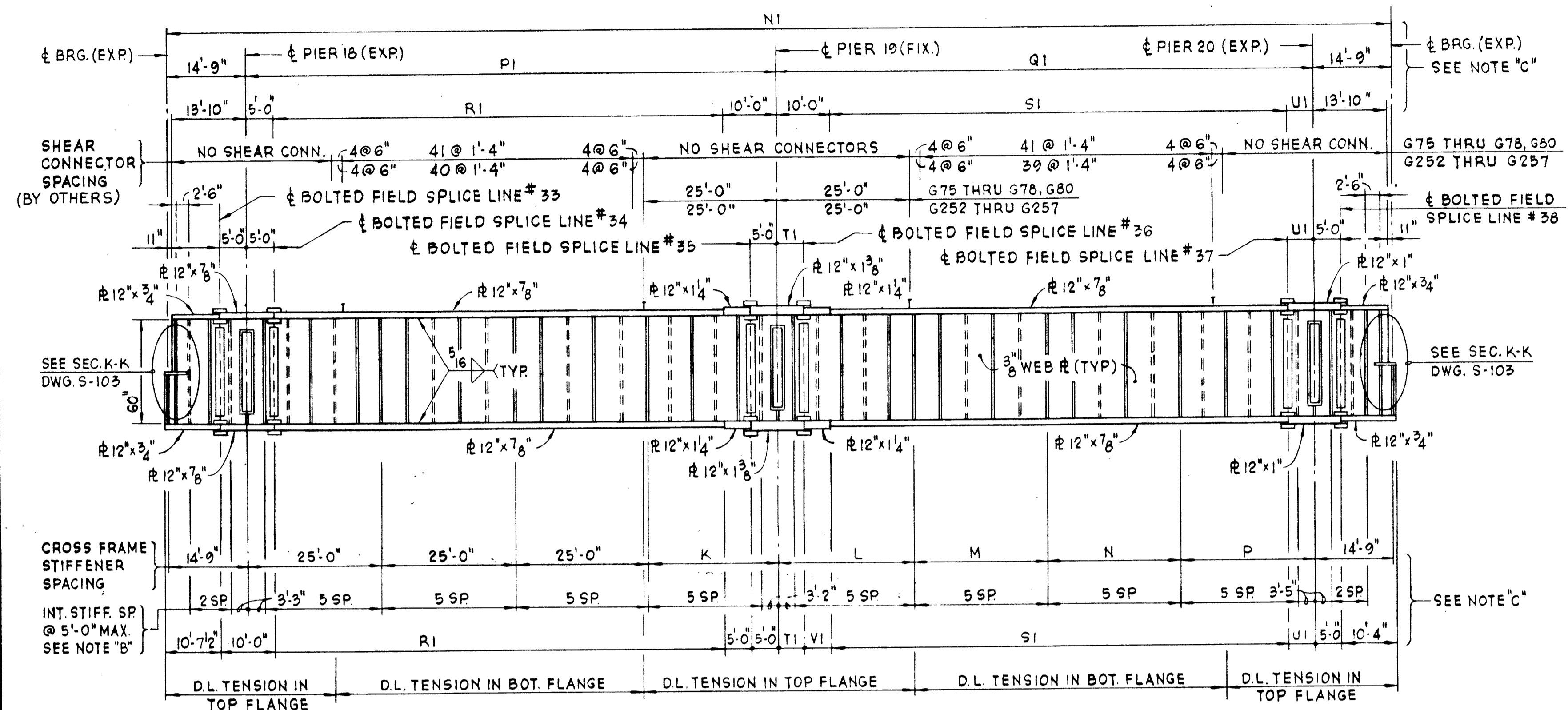


SECTION K-K

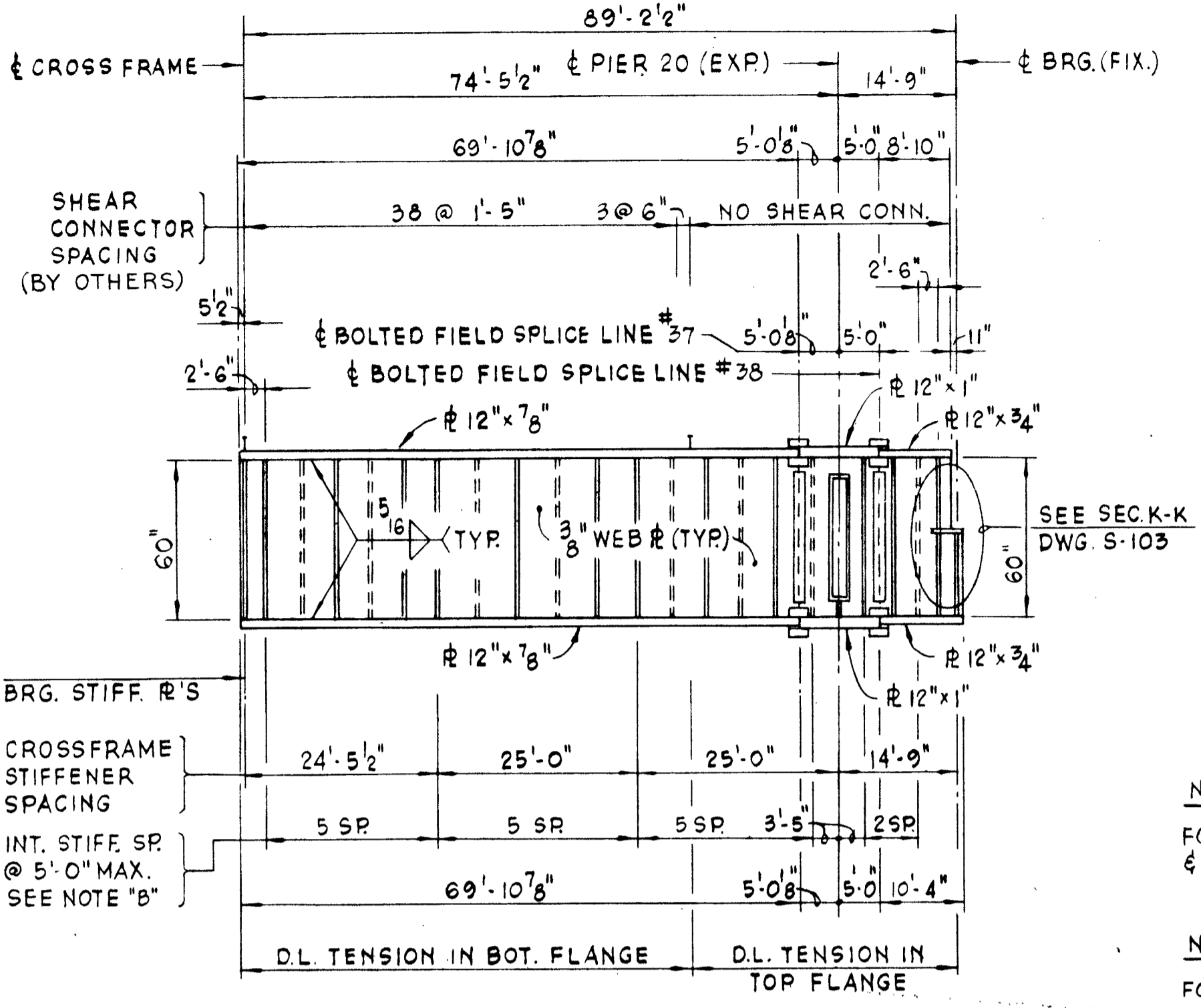
(DWG. S-69)  
SCALE: 1/2" = 1'-0"

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED BY J.D. K...  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

NOTES  
WORK THIS DWG. WITH DWGS. S-69, S-72, S-73, S-74, S-76 & S-77.  
FOR TOP OF GIRDER WEB ELEV., SEE DWG. S-73.  
ALL STIFF. @'S & GIRDER WEBS TO BE VERTICAL.  
FOR WELDED FIELD SPLICE DETAILS, SEE DWG. S-72.  
CROSS GIRDERS AT PIER 7 (S.B.) & MISCELLANEOUS DETAILS  
F.A.I. 74 - SECTION 81-1HVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:



**ELEVATION OF GIRDERS G75 THRU G78, G80, & G252 THRU G257**  
SCALE: 1/16" TO 1'-0" HORIZ., 1/4" TO 1'-0" VERT.



**ELEVATION OF GIRDER G79**  
SCALE: 1/16" TO 1'-0" HORIZ., 1/4" TO 1'-0" VERT.

**NOTES**

WORK THIS DWG. WITH DWG. S-100, S-101 & S-103 - S-103 ALL STRUCTURAL STEEL SHALL BE A.S.T.M. DESIGNATION A-36

ALL DIMENSIONS ARE GIVEN ALONG  $\epsilon$  WEB ON A HORIZONTAL PLANE @ 50°F TEMP

ALL BRG.  $\epsilon$  CROSS FRAME STIFF R'S TO BE VERTICAL. SPACE INTERMEDIATE STIFF R'S TO CLEAR  $\epsilon$  WELDED SPLICES BY 9" MIN.  $\epsilon$  TO CLEAR EDGE OF SPLICE R'S 3" ON BOLTED SPLICES

FOR WELDED SHOP SPLICE DETAILS, SEE DWG. S-97 FOR WELDED FIELD SPLICE DETAILS, SEE DWG. S-104

SHEAR CONNECTORS SHOWN IN THIS SHEET TO BE FURNISHED AND INSTALLED BY CONTRACTOR FOR SECTION 81-IHVB-1.

**NOTE "C"**

FOR GIRDER DIMENSIONS, SEE TABLE II DWG. S-100  $\epsilon$  TABLE III THIS DWG.

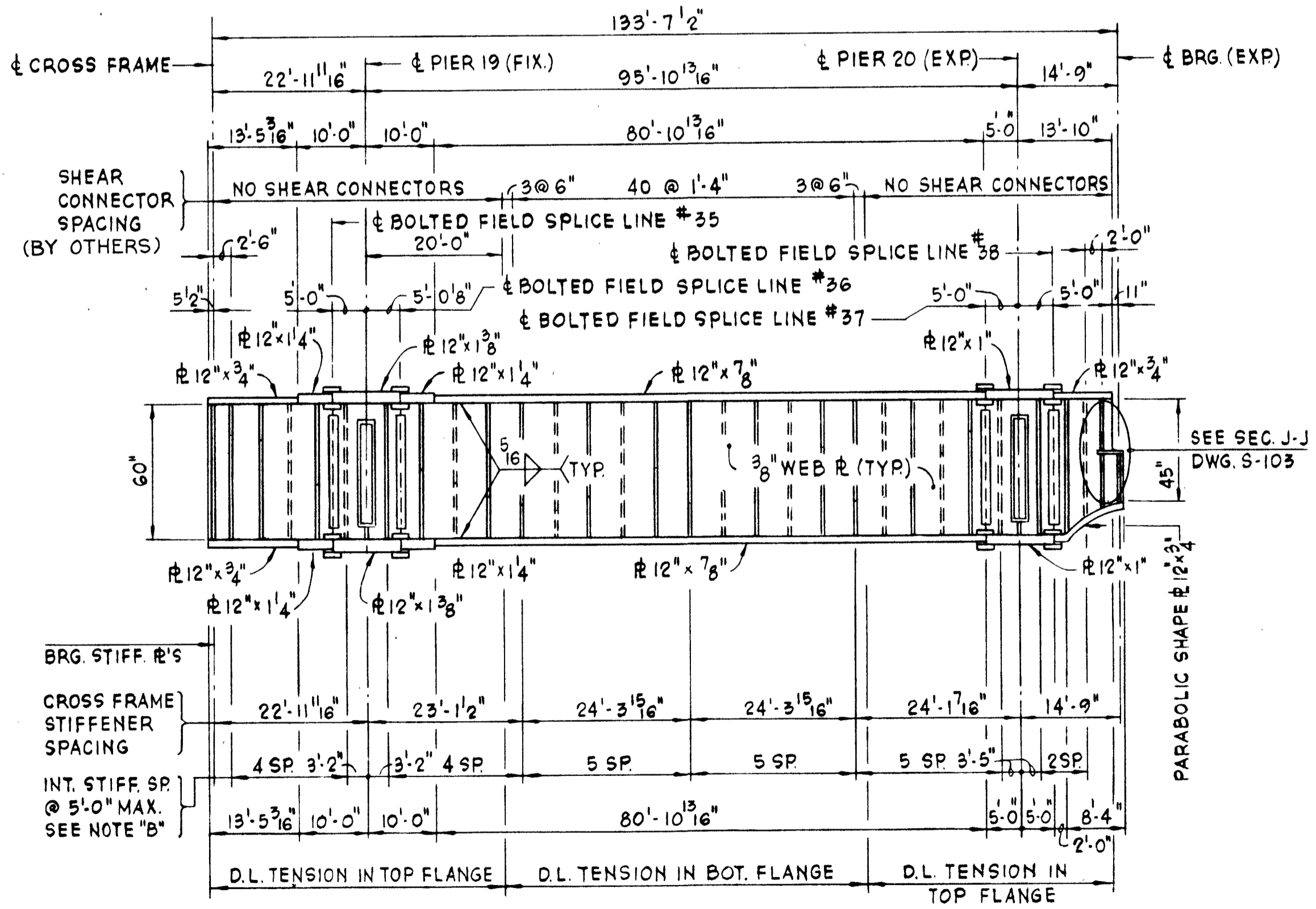
**NOTE "D"**

FOR STIFF SPACING USE AVERAGE CROSS FRAME DIMENSION FOR EACH GIRDER AS GIVEN. FOR N.B. SPAN 19-20 CROSS FRAME STIFF POSITIONS ARE DIFFERENT ON EACH SIDE OF THE WEB.

**NOTE "B"**

INTERMEDIATE STIFF R'S OTHER THAN AT CROSS FRAMES SHALL BE PLACED ALTERNATELY ON N.S.  $\epsilon$  F.S. OF WEB.

DIM.	GIRD.	G 75	G 76	G 77	G 78
NI		230'-0 1/8"	229'-5 3/4"	228'-11 5/16"	228'-4 15/16"
PI		99'-6 5/8"	99'-4 3/4"	99'-2 13/16"	99'-0 15/16"
QI		100'-11 1/2"	100'-7"	100'-2 1/2"	99'-10"
RI		84'-6 5/8"	84'-4 3/4"	84'-2 13/16"	84'-0 15/16"
SI		85'-11 3/16"	85'-6 11/16"	85'-2 3/16"	84'-9 11/16"
TI		5'-0 1/16"	5'-0 1/16"	5'-0 1/16"	5'-0 1/16"
UI		5'-0 5/16"	5'-0 5/16"	5'-0 5/16"	5'-0 5/16"
VI		4'-11 15/16"	4'-11 15/16"	4'-11 15/16"	4'-11 15/16"
	G 80		G 252	G 253	G 254
NI		227'-5 1/8"	227'-0 3/4"	226'-5 15/16"	226'-0 5/16"
PI		98'-11 1/8"	98'-9 7/8"	98'-7 7/8"	98'-6 1/4"
QI		99'-0"	98'-8 7/8"	98'-4 1/16"	98'-0 1/16"
RI		83'-11 1/8"	83'-9 7/8"	83'-7 7/8"	83'-6 1/4"
SI		84'-0"	83'-8 7/8"	83'-4 1/16"	83'-0 1/16"
TI		5'-0"	5'-0"	5'-0"	5'-0 1/16"
UI		5'-0"	5'-0"	5'-0"	5'-0"
VI		5'-0"	5'-0"	5'-0"	4'-11 15/16"
	G 255		G 256	G 257	
NI		225'-6 1/16"	224'-11 7/8"	224'-5 5/8"	
PI		98'-4 7/16"	98'-2 5/8"	98'-0 13/16"	
QI		97'-7 5/8"	97'-3 3/4"	96'-10 13/16"	
RI		83'-4 7/16"	83'-2 5/8"	83'-0 13/16"	
SI		82'-7 5/8"	82'-3 1/4"	81'-10 13/16"	
TI		5'-0 1/16"	5'-0 1/16"	5'-0 1/16"	
UI		5'-0"	5'-0"	5'-0"	
VI		4'-11 15/16"	4'-11 15/16"	4'-11 15/16"	



**ELEVATION OF GIRDER G260**  
SCALE: 1/16" TO 1'-0" HORIZ., 1/4" TO 1'-0" VERT.

	0.4 SPAN 16-17	PIER 17	0.6 SPAN 17-18	PIER 18	0.5 SPAN 18-19	PIER 19	0.5 SPAN 19-20	PIER 20
$I_s$ (in <sup>4</sup> )	26206	29078	26206	26206	26206	37832	26206	29078
$I_c$ (in <sup>4</sup> )	59474	-	59474	-	59474	-	59474	-
$S_s$ (in <sup>3</sup> )	850	938	850	850	850	1206	850	938
$S_c$ (in <sup>3</sup> )	1133	-	1133	-	1133	-	1133	-
D.L. (k/ft)	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
M. D.L. (ftk)	392.8	-825.7	392.8	-546.7	386.4	-970.1	385.6	-592.9
$f_s$ D.L. (ksi)	5.6	10.5	5.6	7.7	5.5	9.6	5.4	7.6
S. D.L. (k/ft)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
MS.D.L. (ftk)	120.2	-165.2	120.2	-141.0	123.2	-203.3	124.6	-149.7
M. L.L. (ftk)	655.0	-454.0	655.0	-583.0	813.0	-676.0	833.0	-575.0
M. IMP. (ftk)	157.8	-106.3	157.8	-134.0	193.6	-154.5	191.0	-131.9
TOTAL (ftk)	933.0	-725.5	933.0	-858.0	1129.8	-1033.8	1148.0	-856.6
$f_s$ L.L. (ksi)	9.9	9.3	9.9	12.1	12.0	10.3	12.2	11.0
$f_s$ TOTAL (ksi)	15.5	19.8	15.5	19.8	17.5	19.9	17.6	18.6
VR (k)	53.6	-	53.6	-	51.4	-	54.9	-

	E. BRG.	PIER 17	E. BRG.	PIER 18	PIER 19	PIER 20
R. D.L. (k)	27.1	95.2	27.1	85.8	100.7	90.1
R. S. D.L. (k)	7.5	23.4	7.5	22.5	25.0	23.3
R. L.L. (k)	46.2	63.0	46.2	64.0	73.5	66.6
Imp. (k)	11.3	15.3	11.3	14.9	16.2	13.8
R TOTAL (k)	92.1	196.9	92.1	187.2	215.4	193.8

**LEGEND:**

$I_s$  &  $S_s$  = are the moment of inertia and section modulus of the steel section.

$I_c$  &  $S_c$  = are the moment of inertia and section modulus of the composite section used in computing  $f_s$ .

VR = is the maximum Live Load + Impact shear range.

D.L. = Dead load

S.D.L. = Superimposed dead load acting on composite section

L.L. = Live load

Imp. = Impact

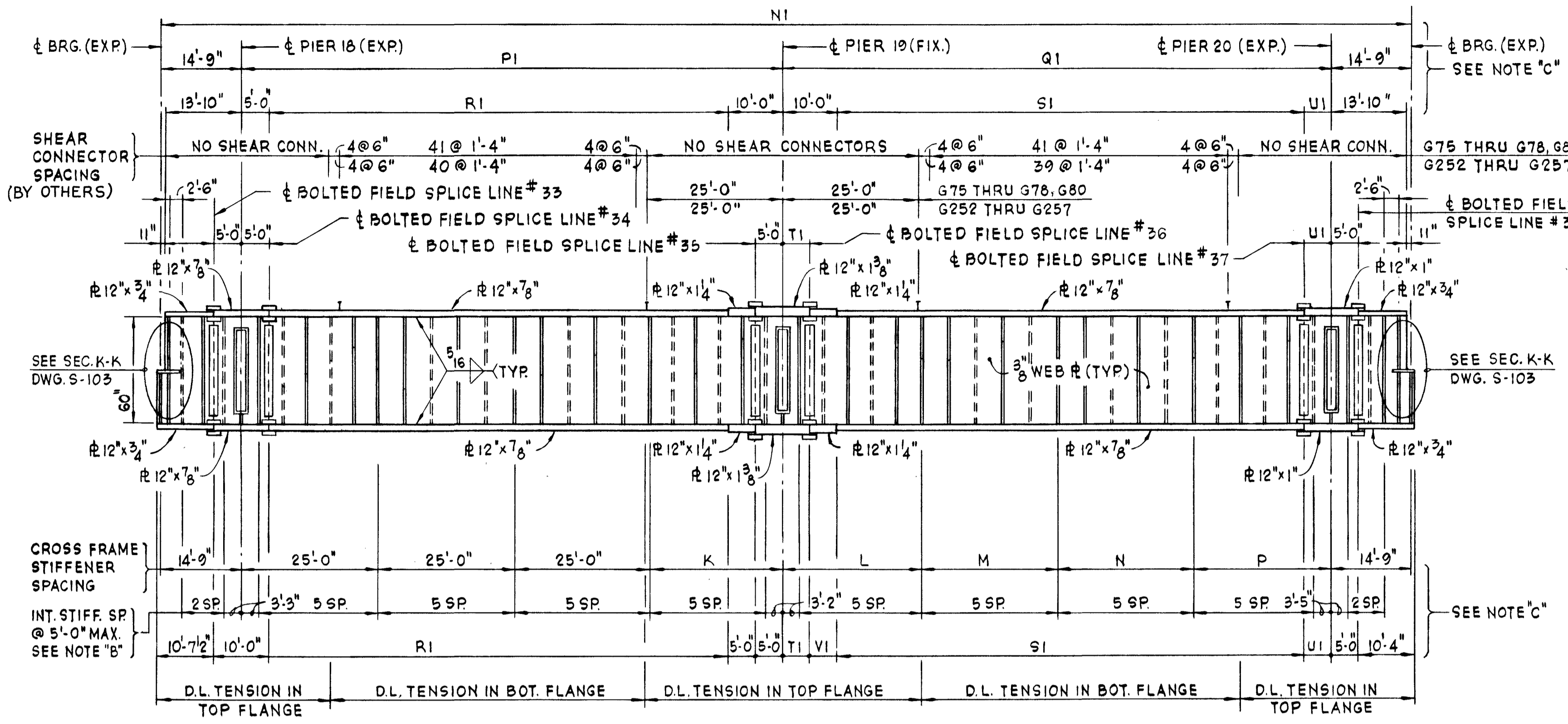
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY N. J. McINNES  
DRAWN BY J. N. LESLIE  
CHECKED *[Signature]*  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

**GIRDER ELEVATIONS**  
G-75 THRU G-80, G-252 THRU G-257 & G-260

F.A.I. 74-SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20  
SCALE: AS NOTED DATE:

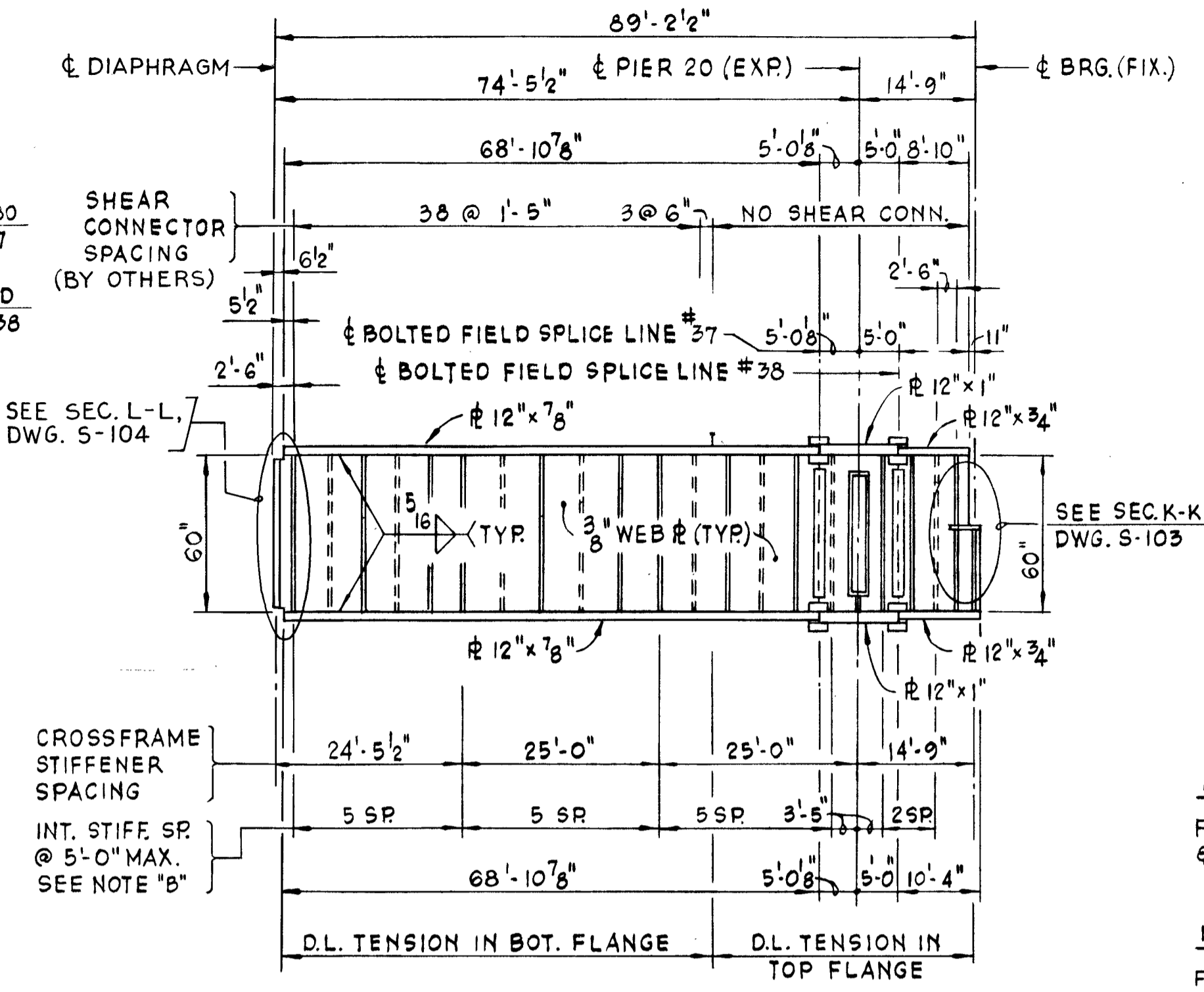
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	149-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-102-A



ELEVATION OF GIRDERS G75 THRU G78, G80, & G252 THRU G257

SCALE: 1/16" TO 1'-0" HORIZ., 1/4" TO 1'-0" VERT.



ELEVATION OF GIRDER G79

SCALE: 1/16" TO 1'-0" HORIZ., 1/4" TO 1'-0" VERT.

**NOTES**

WORK THIS DWG. WITH DWG. S-100, S-101 & S-103-S-108

ALL STRUCTURAL STEEL SHALL BE A.S.T.M. DESIGNATION A-36

ALL DIMENSIONS ARE GIVEN ALONG  $\phi$  WEB ON A HORIZONTAL PLANE @ 50°F TEMP

ALL BRG.  $\phi$  CROSS FRAME STIFFENERS TO BE VERTICAL.

SPACE INTERMEDIATE STIFFENERS TO CLEAR  $\phi$  WELDED SPLICES BY 2" MIN.  $\phi$  TO CLEAR EDGE OF SPLICE  $\phi$ 'S 3" ON BOLTED SPLICES

FOR WELDED SHOP SPLICE DETAILS, SEE DWG. S-97

FOR WELDED FIELD SPLICE DETAILS, SEE DWG. S-104

SHEAR CONNECTORS SHOWN IN THIS SHEET TO BE FURNISHED AND INSTALLED BY CONTRACTOR FOR SECTION 81-IHVB-1.

**NOTE "C"**

FOR GIRDER DIMENSIONS, SEE TABLE II DWG. S-100 & TABLE III THIS DWG.

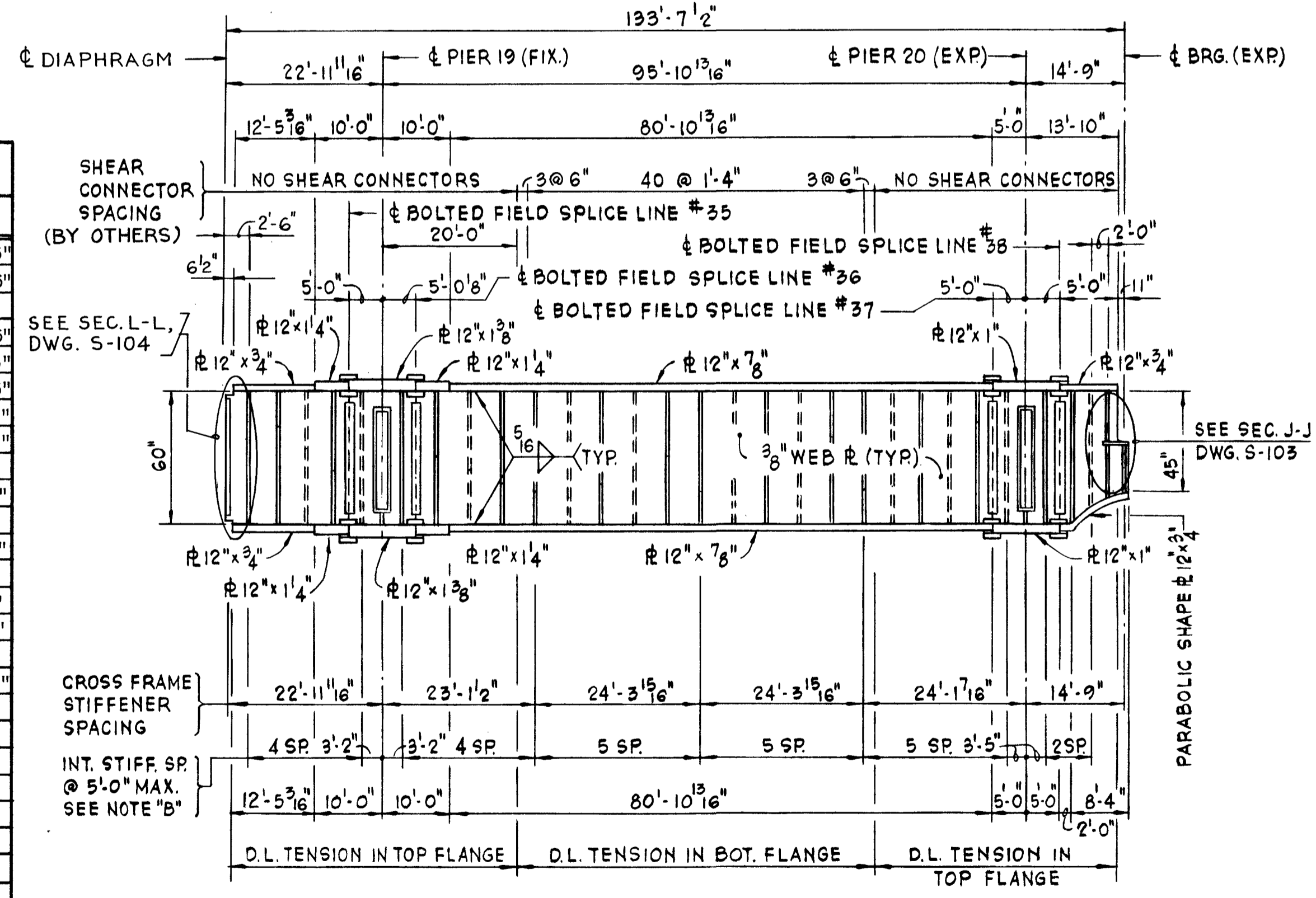
**NOTE "D"**

FOR STIFF. SPACING USE AVERAGE CROSS FRAME DIMENSION FOR EACH GIRDER AS GIVEN. FOR N.B. SPAN 19-20 CROSS FRAME STIFF. POSITIONS ARE DIFFERENT ON EACH SIDE OF THE WEB.

**NOTE "B"**

INTERMEDIATE STIFFENERS OTHER THAN AT CROSS FRAMES SHALL BE PLACED ALTERNATELY ON N.S. & S.S. OF WEB.

DIM.	GIRD.	G 75	G 76	G 77	G 78
NI		230'-0 1/8"	229'-5 3/4"	228'-11 5/16"	228'-4 15/16"
PI		99'-6 5/8"	99'-4 3/4"	99'-2 13/16"	99'-0 15/16"
QI		100'-11 1/2"	100'-7"	100'-2 1/2"	99'-10"
RI		84'-6 5/8"	84'-4 3/4"	84'-2 13/16"	84'-0 15/16"
SI		85'-11 13/16"	85'-6 11/16"	85'-2 3/16"	84'-9 11/16"
TI		5'-0 1/16"	5'-0 1/16"	5'-0 1/16"	5'-0 1/16"
UI		5'-0 5/16"	5'-0 5/16"	5'-0 5/16"	5'-0 5/16"
VI		4'-11 15/16"	4'-11 15/16"	4'-11 15/16"	4'-11 15/16"
	G 80	G 252	G 253	G 254	
NI		227'-5 1/8"	227'-0 3/4"	226'-5 15/16"	226'-0 5/16"
PI		98'-11 1/8"	98'-9 7/8"	98'-7 7/8"	98'-6 1/4"
QI		99'-0"	98'-8 7/8"	98'-4 1/16"	98'-0 1/16"
RI		83'-11 1/8"	83'-9 7/8"	83'-7 7/8"	83'-6 1/4"
SI		84'-0"	83'-8 7/8"	83'-4 1/16"	83'-0 1/16"
TI		5'-0"	5'-0"	5'-0"	5'-0 1/16"
UI		5'-0"	5'-0"	5'-0"	5'-0"
VI		5'-0"	5'-0"	5'-0"	4'-11 15/16"
	G 255	G 256	G 257		
NI		225'-6 1/16"	224'-11 7/8"	224'-5 5/8"	
PI		98'-4 7/16"	98'-2 5/8"	98'-0 13/16"	
QI		97'-7 5/8"	97'-3 1/4"	96'-10 13/16"	
RI		83'-4 7/16"	83'-2 5/8"	83'-0 13/16"	
SI		82'-7 5/8"	82'-3 1/4"	81'-10 13/16"	
TI		5'-0 1/16"	5'-0 1/16"	5'-0 1/16"	
UI		5'-0"	5'-0"	5'-0"	
VI		4'-11 15/16"	4'-11 15/16"	4'-11 15/16"	



ELEVATION OF GIRDER G260

SCALE: 1/16" TO 1'-0" HORIZ., 1/4" TO 1'-0" VERT.

	0.4 SPAN 16-17	PIER 17	0.6 SPAN 17-18	PIER 18	0.5 SPAN 18-19	PIER 19	0.5 SPAN 19-20	PIER 20
$I_s$ (in <sup>4</sup> )	26206	29078	26206	26206	26206	37832	26206	29078
$I_c$ (in <sup>4</sup> )	59474	-	59474	-	59474	-	59474	-
$S_s$ (in <sup>3</sup> )	850	938	850	850	850	1206	850	938
$S_c$ (in <sup>3</sup> )	1133	-	1133	-	1133	-	1133	-
D.L. (k/ft)	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
M. D.L. (ftk)	392.8	-825.7	392.8	-546.7	386.4	-970.1	385.6	-592.9
$f_s$ D.L. (ksi)	5.6	10.5	5.6	7.7	5.5	9.6	5.4	7.6
S. D.L. (k/ft)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
MS.D.L. (ftk)	120.2	-165.2	120.2	-141.0	123.2	-203.3	124.6	-149.7
M. L.L. (ftk)	655.0	-454.0	655.0	-583.0	813.0	-676.0	833.0	-575.0
M. IMP. (ftk)	157.8	-106.3	157.8	-134.0	193.6	-154.5	191.0	-131.9
TOTAL (ftk)	933.0	-725.5	933.0	-858.0	1129.8	-1033.8	1148.0	-856.6
$f_s$ L.L. (ksi)	9.9	9.3	9.9	12.1	12.0	10.3	12.2	11.0
$f_s$ TOTAL (ksi)	15.5	19.8	15.5	19.8	17.5	19.9	17.6	18.6
VR (k)	53.6	-	53.6	-	51.4	-	54.9	-

	E. BRG.	PIER 17	E. BRG.	PIER 18	PIER 19	PIER 20
R. D.L. (k)	27.1	95.2	27.1	85.8	100.7	90.1
R.S. D.L. (k)	7.5	23.4	7.5	22.5	25.0	23.3
R. L.L. (k)	46.2	63.0	46.2	64.0	73.5	66.6
Imp. (k)	11.3	15.3	11.3	14.9	16.2	13.8
R TOTAL (k)	92.1	196.9	92.1	187.2	215.4	193.8

**LEGEND:**

$I_s$  &  $S_s$  = are the moment of inertia and section modulus of the steel section.

$I_c$  &  $S_c$  = are the moment of inertia and section modulus of the composite section used in computing  $f_s$ .

VR = is the maximum Live Load + Impact shear range.

D.L. = Dead load

S.D.L. = Superimposed dead load acting on composite section

L.L. = Live load

Imp. = Impact

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY N.J. McINNIS  
 DRAWN BY J.N. LESLIE  
 CHECKED S.O. MARTINS  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

GIRDER ELEVATIONS  
 G-75 THRU G-80, G-252 THRU G-257 & G-260

F.A.I. 74-SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265 + 20

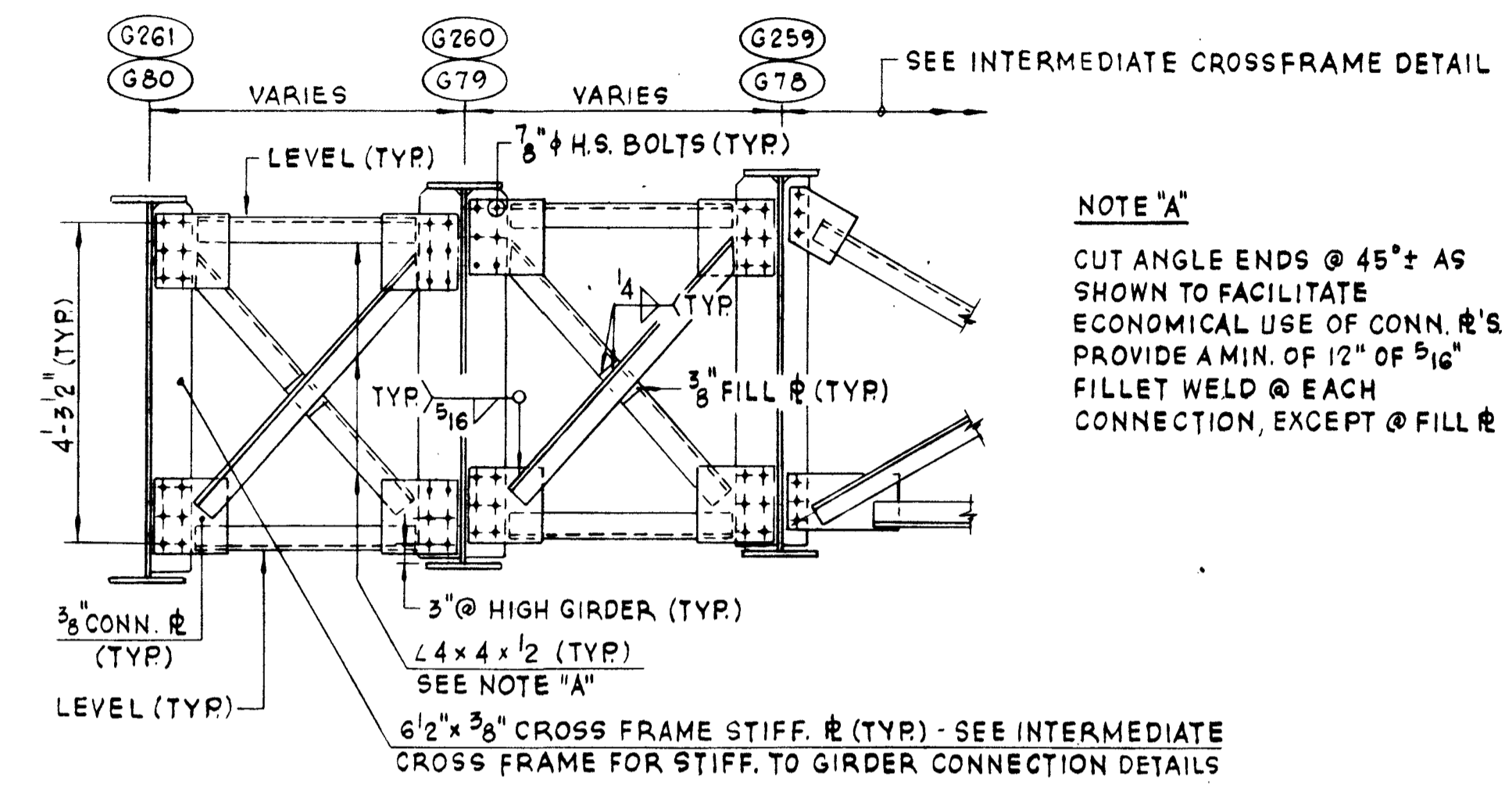
(AS REVISED JULY 28, 1972.)

SCALE: AS NOTED DATE:

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	151
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

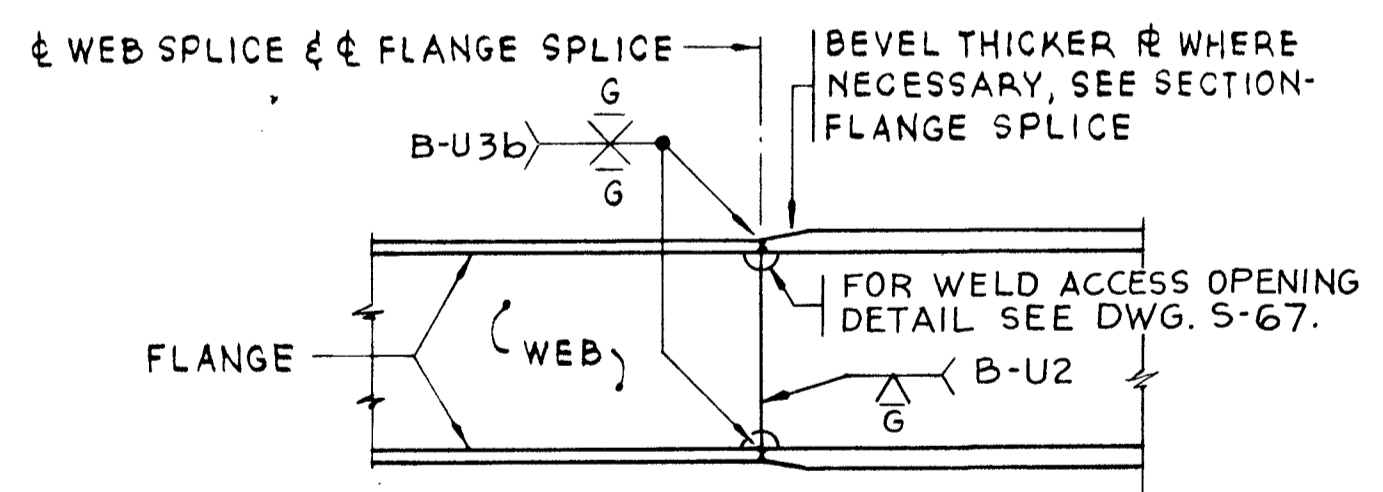
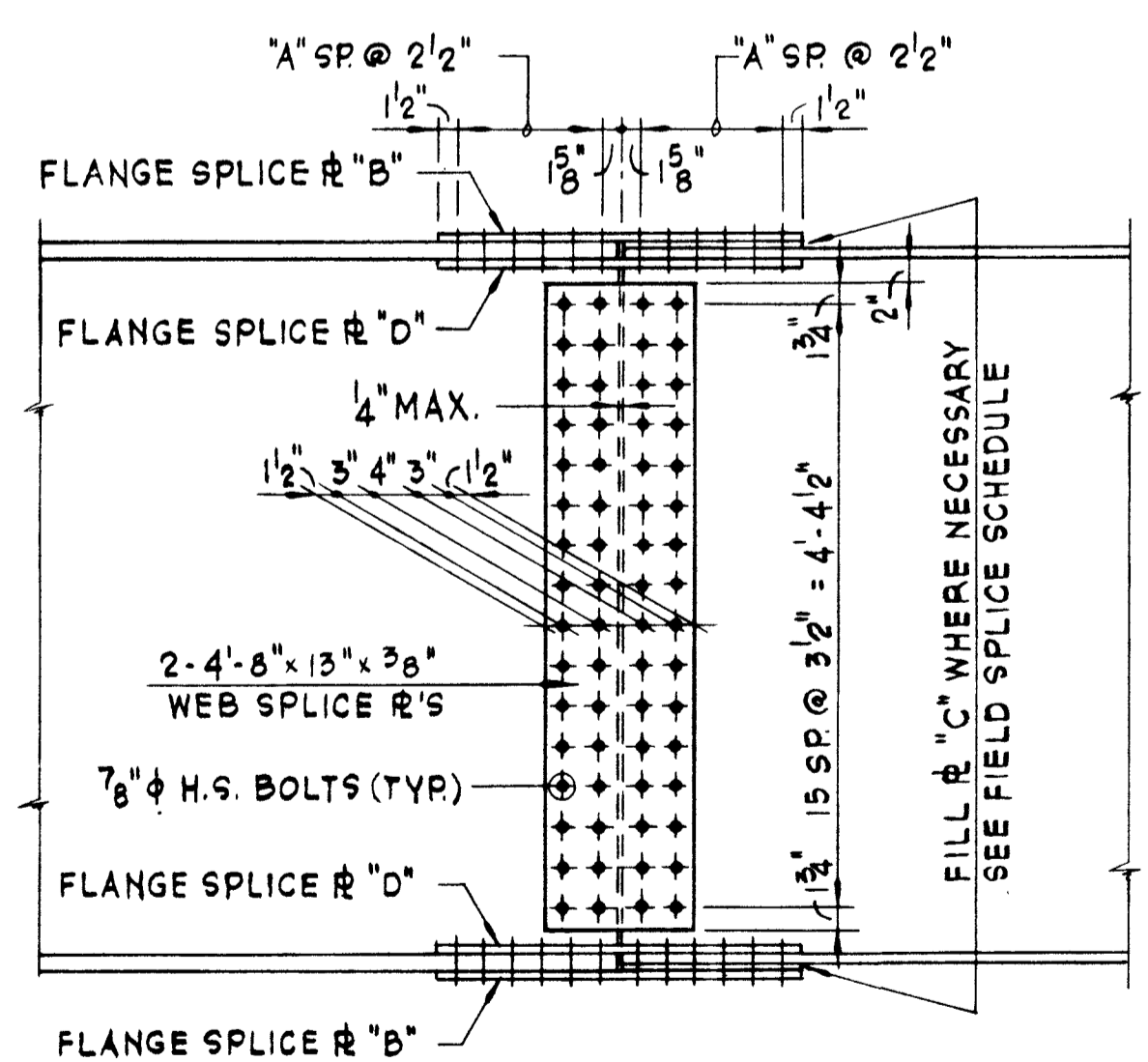
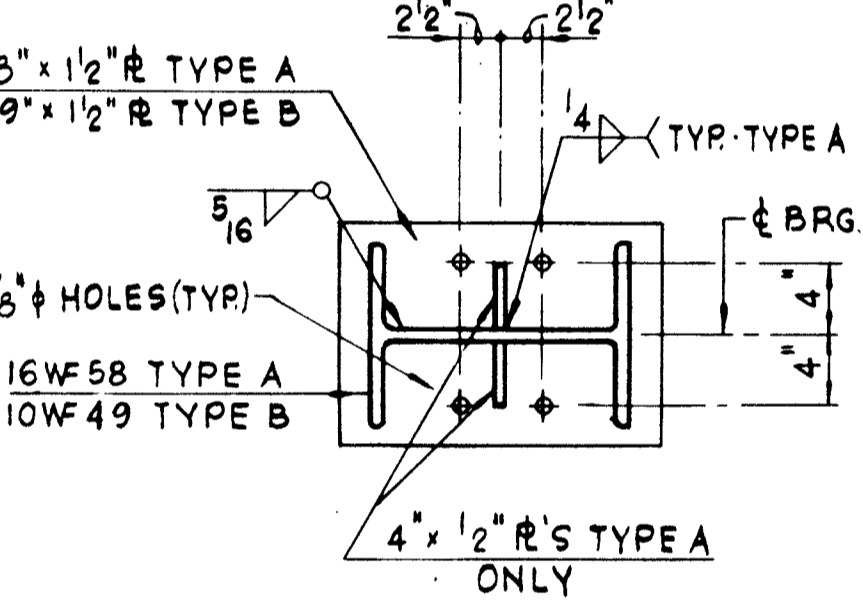
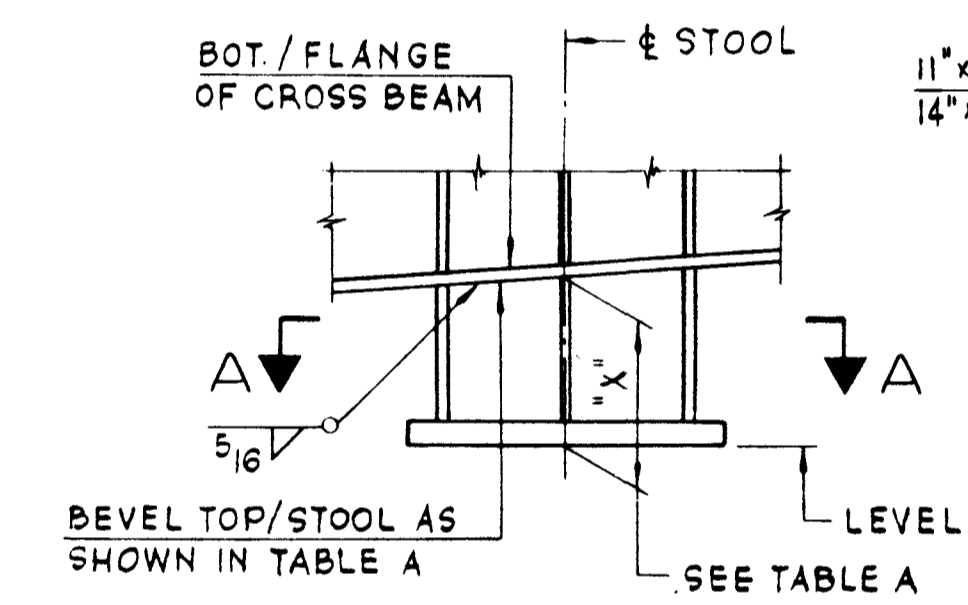
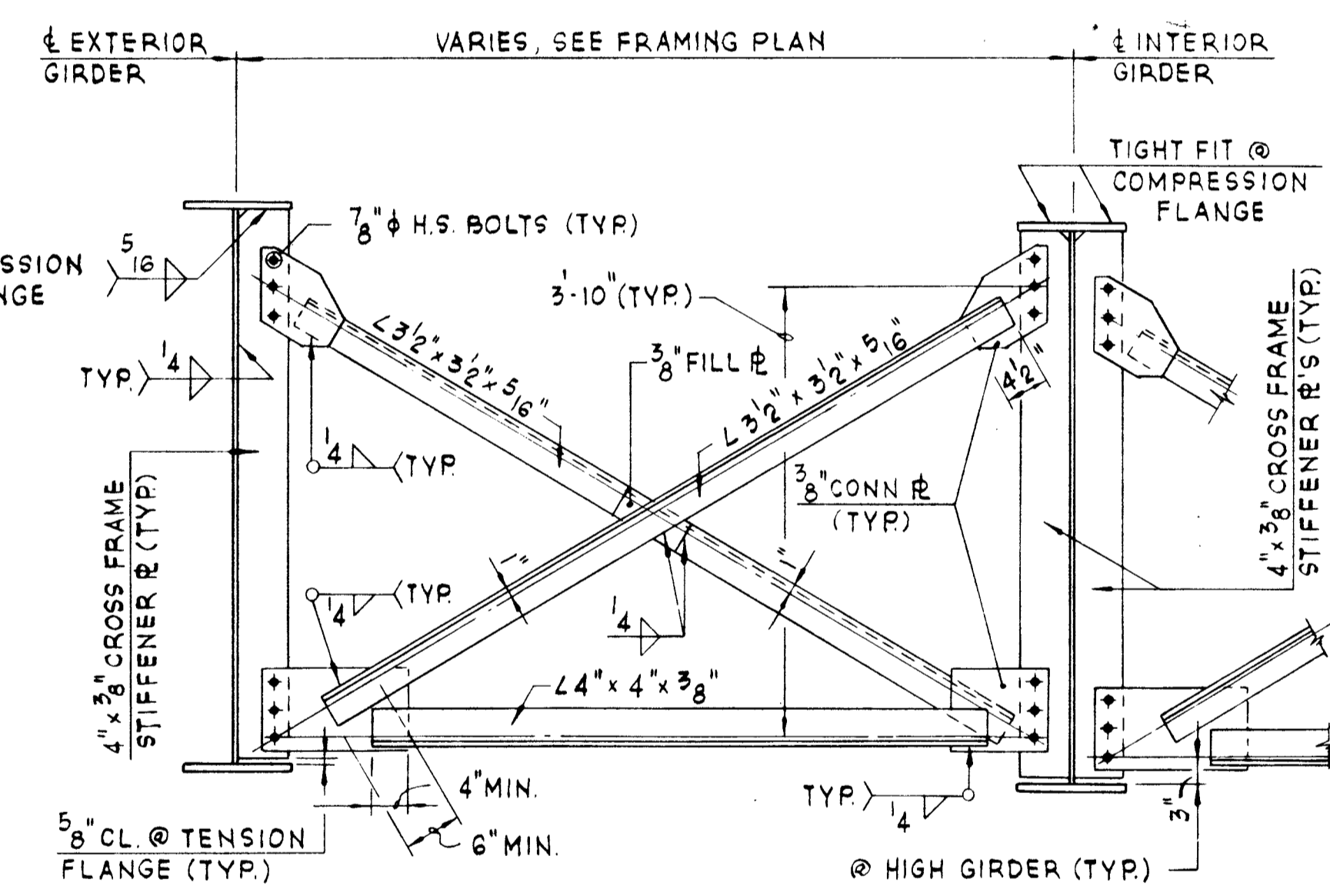
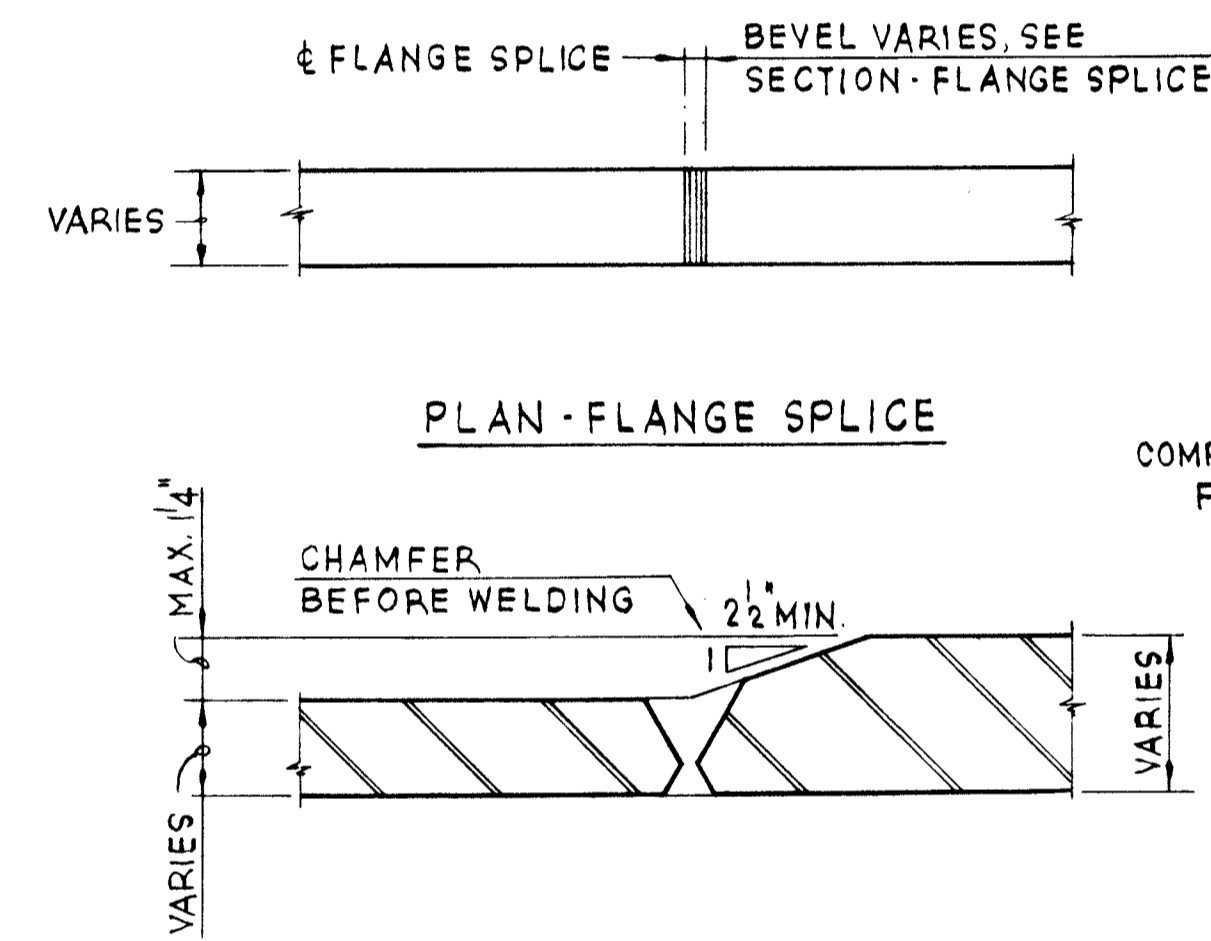
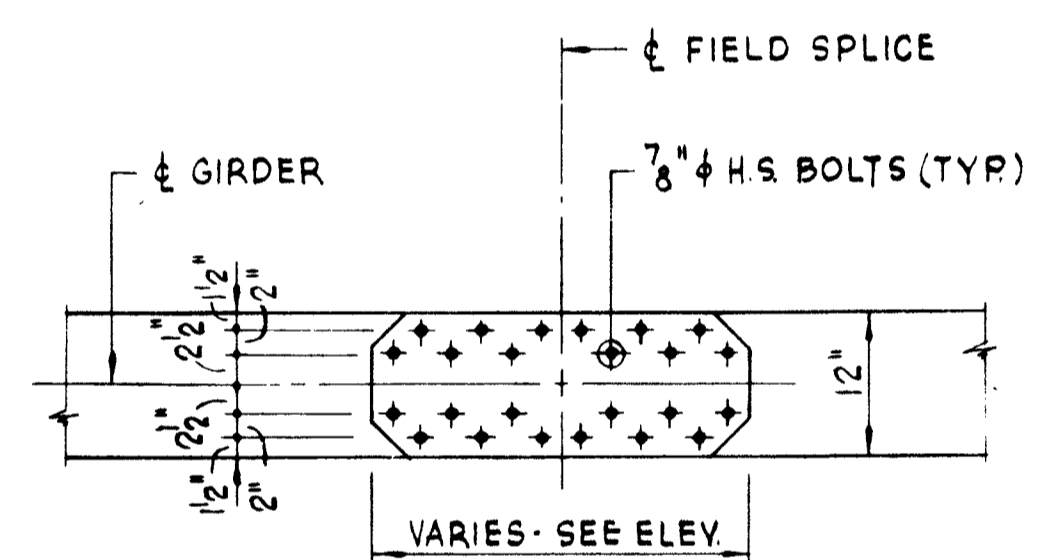
DWG. NO. S-104

TOP OF WEB ELEVATIONS																					
LOCATION	G 63	G 64	G 65	G 66	G 67	G 68	G 69	G 70	-	-	G 244	G 245	G 246	G 247	G 248	G 249	G 250	G 251	-	-	
BRG. SPAN 16-17	602.859	602.892	602.955	603.027	603.019	603.005	602.992	602.980	-	-	603.020	602.962	602.903	602.845	602.785	602.686	602.623	602.583	-	-	
SPLICE LINE 31	602.537	602.655	602.773	602.890	602.808	602.711	602.615	602.530	-	-	602.615	602.557	602.498	602.440	602.380	602.281	602.190	602.100	-	-	
PIER 17	602.552	602.663	602.774	602.883	602.795	602.694	602.593	602.503	-	-	602.591	602.533	602.474	602.416	602.356	602.257	602.165	602.073	-	-	
SPLICE LINE 32	602.568	602.671	602.775	602.875	602.783	602.677	602.570	602.476	-	-	602.567	602.509	602.450	602.392	602.332	602.233	602.139	602.045	-	-	
BRG. SPAN 17-18	602.938	602.882	602.827	602.784	602.604	602.415	602.226	602.058	-	-	602.218	602.118	602.018	601.919	601.819	601.700	601.553	601.406	-	-	
LOCATION	G 71	G 72	G 73	G 74	G 75	G 76	G 77	G 78	G 79	G 80	G 252	G 253	G 254	G 255	G 256	G 257	G 258	G 259	G 260	G 261	
* BRG. SPAN 17-18	602.938	602.905	602.872	602.827	602.784	602.604	602.415	602.226	-	-	602.058	602.218	602.118	602.018	601.919	601.819	601.700	601.580	601.493	-	601.406
SPLICE LINE 33	602.959	602.916	602.876	602.819	602.768	602.580	602.381	602.182	-	-	602.006	602.179	602.653	601.952	601.839	601.725	601.608	601.491	601.401	-	601.311
PIER 18	602.970	602.922	602.878	602.815	602.760	602.567	602.363	602.159	-	-	601.979	602.159	602.038	601.918	601.798	601.677	601.561	601.445	601.354	-	601.263
SPLICE LINE 34	602.982	602.928	602.879	602.811	602.752	602.554	602.346	602.137	-	-	601.952	602.139	602.010	601.884	601.757	601.629	601.514	601.399	601.307	-	601.214
SOUTHERNMOST CROSS FRAME IN SPAN 18-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600.562	-
SPLICE LINE 35	603.242	603.100	602.957	602.801	602.593	602.303	602.003	601.702	-	-	601.421	601.729	601.449	601.236	600.983	600.731	600.634	600.542	600.439	600.379	600.320
PIER 19	603.276	603.132	602.987	602.828	602.583	602.289	601.982	601.676	-	-	601.405	601.720	601.431	601.212	600.952	600.691	600.601	600.514	600.417	600.360	600.303
SPLICE LINE 36	603.310	603.164	603.016	602.855	602.573	602.274	601.962	601.651	-	-	601.390	601.711	601.413	601.187	600.920	600.652	600.568	600.487	600.395	600.340	600.286
NORTHERNMOST CROSS FRAME IN SPAN 19-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	601.553
SPLICE LINE 37	604.256	604.064	603.839	603.619	603.592	603.197	602.793	602.388	602.040	601.656	602.029	601.744	601.469	601.192	600.917	600.653	600.391	600.199	600.022	599.871	-
PIER 20	604.274	604.077	603.851	603.633	603.699	603.294	602.885	602.475	602.094	601.696	602.072	601.790	601.514	601.237	600.958	600.672	600.388	600.184	600.004	599.846	-
SPLICE LINE 38	604.292	604.090	603.864	603.648	603.806	603.392	602.977	602.562	602.148	601.736	602.115	601.836	601.559	601.282	600.999	600.691	600.385	600.170	599.987	599.821	-
* BRG. SPAN 20-21	604.297	604.072	604.848	603.622	603.908	603.492	603.077	602.661	602.246	601.830	602.210	601.933	601.657	601.380	601.090	600.735	600.381	600.137	599.954	599.771	-



NOTE "A"  
CUT ANGLE ENDS @ 45°± AS SHOWN TO FACILITATE ECONOMICAL USE OF CONN. R'S. PROVIDE A MIN. OF 5/16" FILLET WELD @ EACH CONNECTION, EXCEPT @ FILL R

\* SEE DETAIL "A" (THIS DWG.), FOR CLARIFICATION @ BRG.



FIELD SPLICE SCHEDULE					
GIRDERS	SP. LINE	A	B	C	D
G64-G70 & G244-G250	31 & 32	5	12" x 1/2" x 2'-7 1/4"	12" x 1/8" x 1'-3 1/2"	2 R'S 5" x 1/2" x 2'-7 1/4"
G72-G78, G80, G252-G259	33	4	12" x 1/2" x 2'-2 1/4"	12" x 1/8" x 1'-1"	2 R'S 5" x 1/2" x 2'-2 1/4"
G72-G78, G80, G252-G259	34	5	12" x 1/2" x 2'-7 1/4"	-	2 R'S 5" x 1/2" x 2'-7 1/4"
G72-G78, G80, G252-G260	35 & 36	7	12" x 3/4" x 3'-5 1/4"	12" x 1/8" x 1'-8"	2 R'S 5" x 5/8" x 3'-5 1/4"
G72-G80 & G252-G260	37	5	12" x 1/2" x 2'-7 1/4"	12" x 1/8" x 1'-3 1/2"	2 R'S 5" x 1/2" x 2'-7 1/4"
G72-G80 & G252-G260	38	4	12" x 1/2" x 2'-2 1/4"	12" x 1/4" x 1'-1"	2 R'S 5" x 1/2" x 2'-2 1/4"

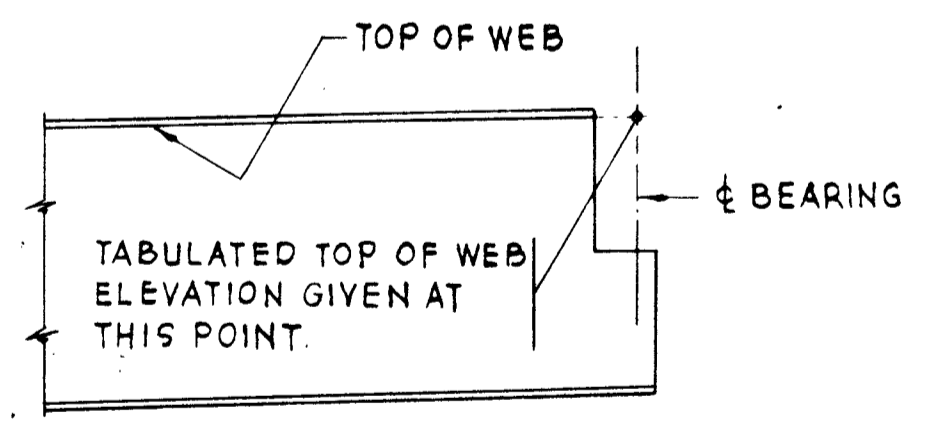
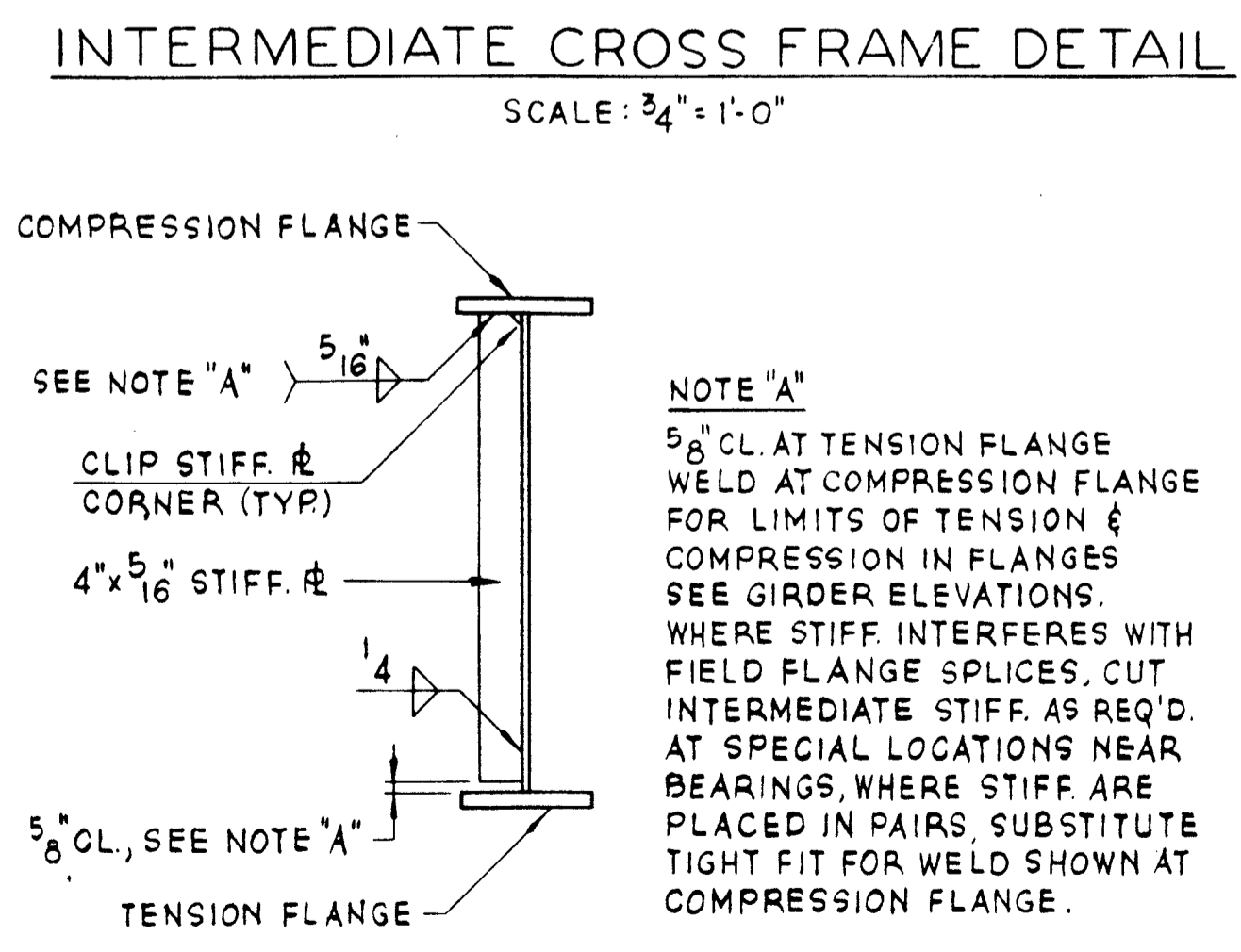


TABLE A		
STOOL LOCATION	"X"	SLOPE FT./FT.
G63/G71	8 5/8	.0066
G251/G261	8 5/16	.0170
G105/G71	8 7/16	.0299
G287/G261	8 1/2	.0243

STOOL LEGEND  
STOOLS OVER BRG'S ARE DESIGNATED BY THE MARKS OF THE TWO ADJACENT FASCIA GIRDERS

NOTES  
WORK THIS DWG. WITH DWGS. S-100 THRU S-108

MISCELLANEOUS STEEL DETAILS, UNIT "F"  
F.A.I. 74-SECTION 81-IHVB  
MOLINE VIADUCT

ROCK ISLAND COUNTY  
STATION 265 + 20

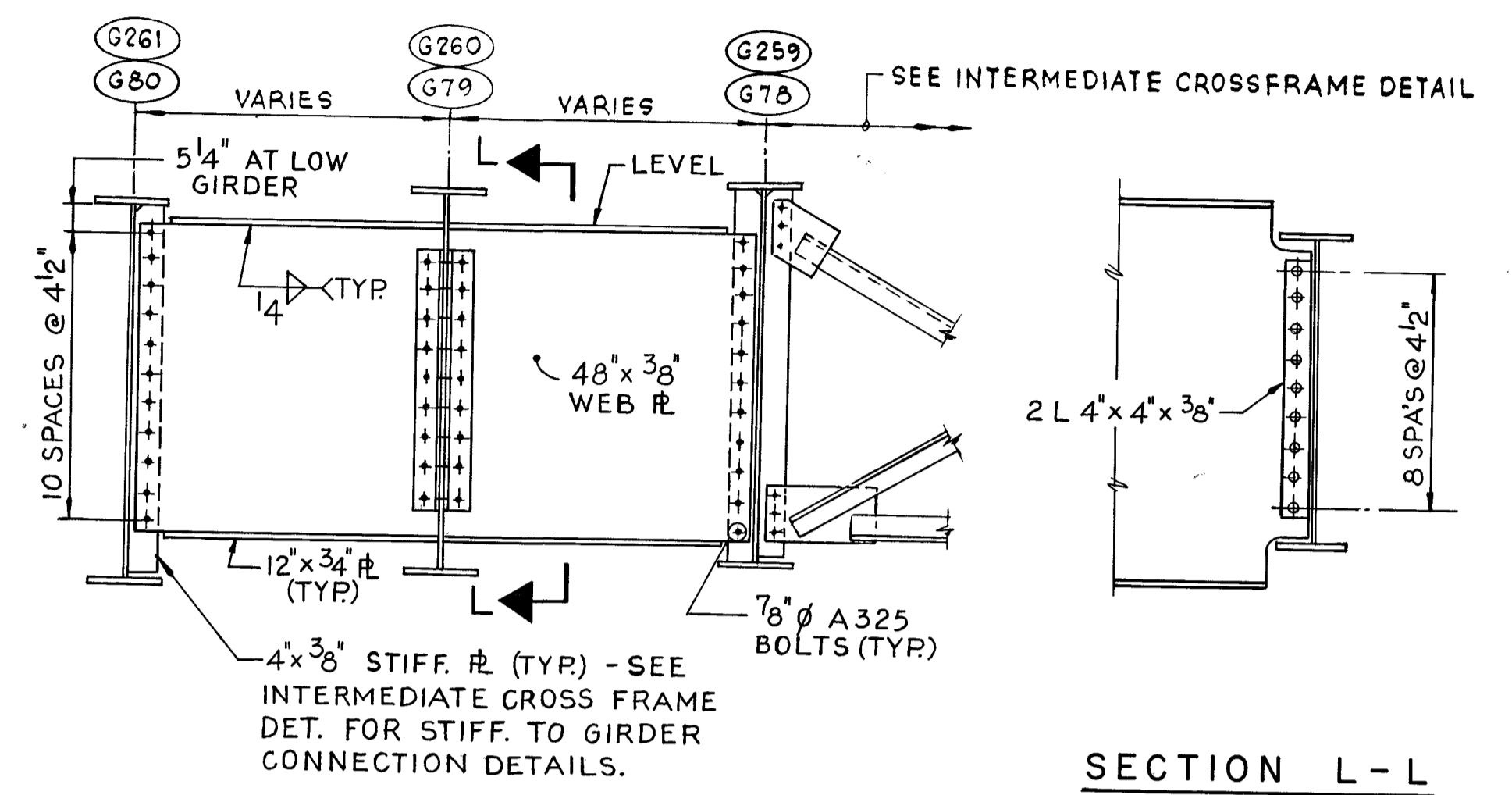
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED H.D. KOESTER  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

LOCATION	TOP OF WEB ELEVATIONS																					
	G 63	G 64	G 65	G 66	G 67	G 68	G 69	G 70	-	-	G 244	G 245	G 246	G 247	G 248	G 249	G 250	G 251	-	-		
BRG. SPAN 16-17	602.859	602.892	602.955	603.027	603.019	603.005	602.992	602.980	-	-	603.020	602.962	602.903	602.845	602.785	602.686	602.623	602.583	-	-		
SPLICE LINE 31	602.537	602.655	602.773	602.890	602.808	602.711	602.615	602.530	-	-	602.615	602.557	602.498	602.440	602.380	602.281	602.190	602.100	-	-		
PIER 17	602.552	602.663	602.774	602.883	602.795	602.694	602.593	602.503	-	-	602.591	602.533	602.474	602.416	602.356	602.257	602.165	602.073	-	-		
SPLICE LINE 32	602.568	602.671	602.775	602.875	602.783	602.677	602.570	602.476	-	-	602.567	602.509	602.450	602.392	602.332	602.233	602.139	602.045	-	-		
BRG. SPAN 17-18	602.938	602.905	602.872	602.827	602.784	602.604	602.415	602.226	602.058	-	-	602.218	602.118	602.018	601.919	601.819	601.700	601.553	601.406	-	-	
LOCATION	G 71	G 72	G 73	G 74	G 75	G 76	G 77	G 78	G 79	G 80	G 252	G 253	G 254	G 255	G 256	G 257	G 258	G 259	G 260	G 261		
BRG. SPAN 17-18	602.938	602.905	602.872	602.827	602.784	602.604	602.415	602.226	-	-	602.058	602.218	602.118	602.018	601.919	601.819	601.700	601.580	601.493	-	601.406	
SPLICE LINE 33	602.959	602.916	602.876	602.819	602.768	602.580	602.381	602.182	-	-	602.006	602.179	602.653	601.952	601.839	601.725	601.608	601.491	601.401	-	601.311	
PIER 18	602.970	602.922	602.878	602.815	602.760	602.567	602.363	602.159	-	-	601.979	602.159	602.038	601.918	601.798	601.677	601.561	601.445	601.354	-	601.263	
SPLICE LINE 34	602.982	602.928	602.879	602.811	602.752	602.554	602.346	602.137	-	-	601.952	602.139	602.010	601.884	601.757	601.629	601.514	601.399	601.307	-	601.214	
DIAPHRAGM IN SPAN 18-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SPLICE LINE 35	603.242	603.100	602.957	602.801	602.593	602.303	602.003	601.702	-	-	601.421	601.729	601.449	601.236	600.983	600.731	600.634	600.542	600.439	600.379	600.320	
PIER 19	603.276	603.132	602.987	602.828	602.583	602.289	601.982	601.676	-	-	601.405	601.720	601.431	601.212	600.952	600.691	600.601	600.514	600.417	600.360	600.303	
SPLICE LINE 36	603.310	603.164	603.016	602.855	602.573	602.274	601.962	601.651	-	-	601.390	601.711	601.413	601.187	600.920	600.652	600.568	600.487	600.395	600.340	600.286	
DIAPHRAGM IN SPAN 19-20	-	-	-	-	-	-	-	-	601.553	-	-	-	-	-	-	-	-	-	-	-	-	
SPLICE LINE 37	604.256	604.064	603.839	603.619	603.592	603.197	602.793	602.388	602.040	-	-	601.656	602.029	601.744	601.469	601.192	600.917	600.653	600.391	600.199	600.022	599.871
PIER 20	604.274	604.077	603.851	603.633	603.699	603.294	602.885	602.475	602.094	-	-	601.696	602.072	601.790	601.514	601.237	600.958	600.672	600.388	600.184	600.004	599.846
SPLICE LINE 38	604.292	604.090	603.864	603.648	603.806	603.392	602.977	602.562	602.148	-	-	601.736	602.115	601.836	601.559	601.282	600.999	600.691	600.385	600.170	599.987	599.821
BRG. SPAN 20-21	604.297	604.072	603.848	603.622	603.908	603.492	603.077	602.661	602.246	-	-	601.830	602.210	601.933	601.657	601.380	601.090	600.735	600.381	600.137	599.954	599.771

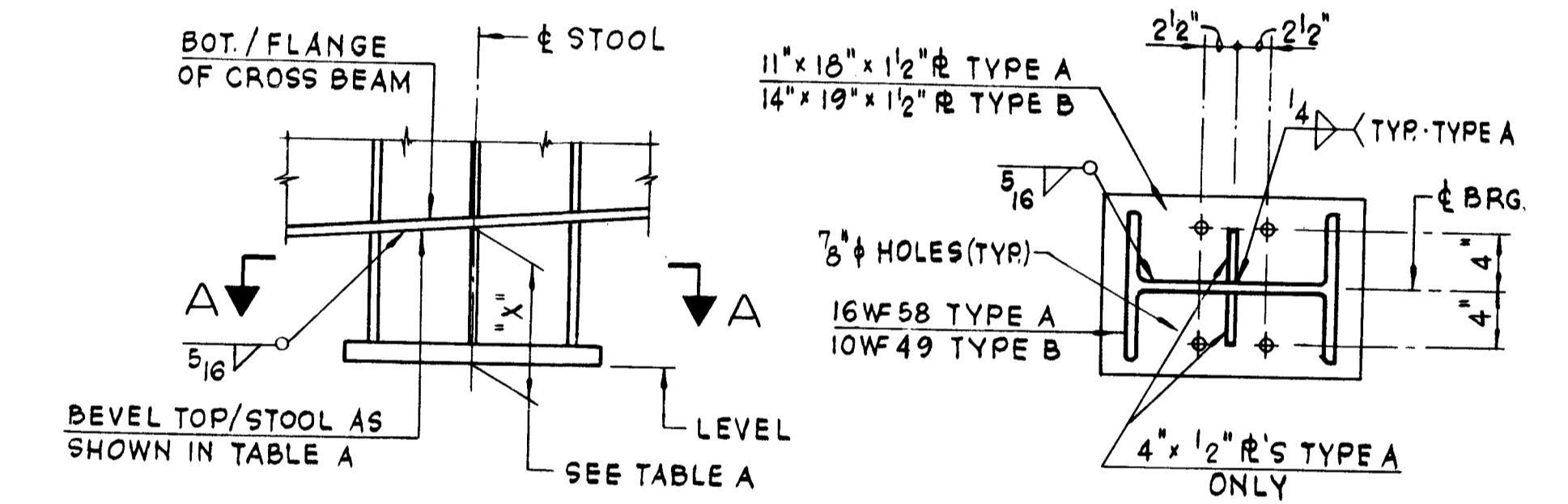
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	151A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-104-A



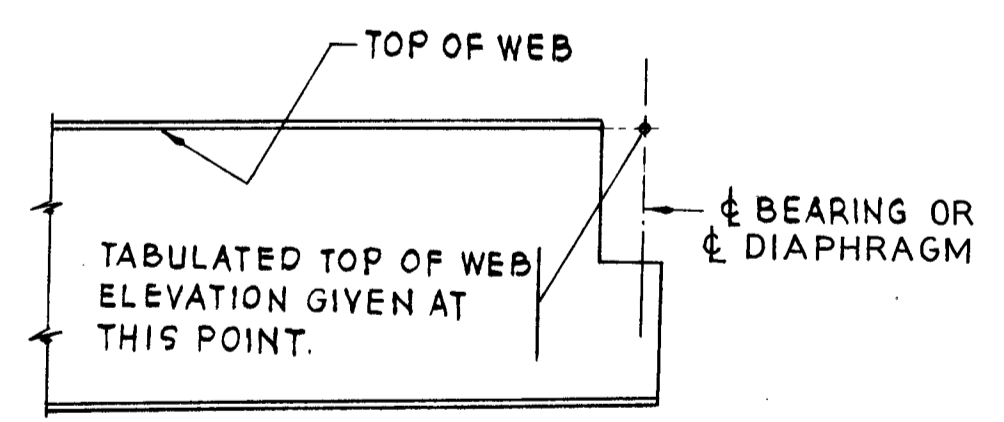
SECTION L-L  
SCALE: 1/2" = 1'-0"

SECTION K-K  
DWG. S-100  
SCALE: 1/2" = 1'-0"



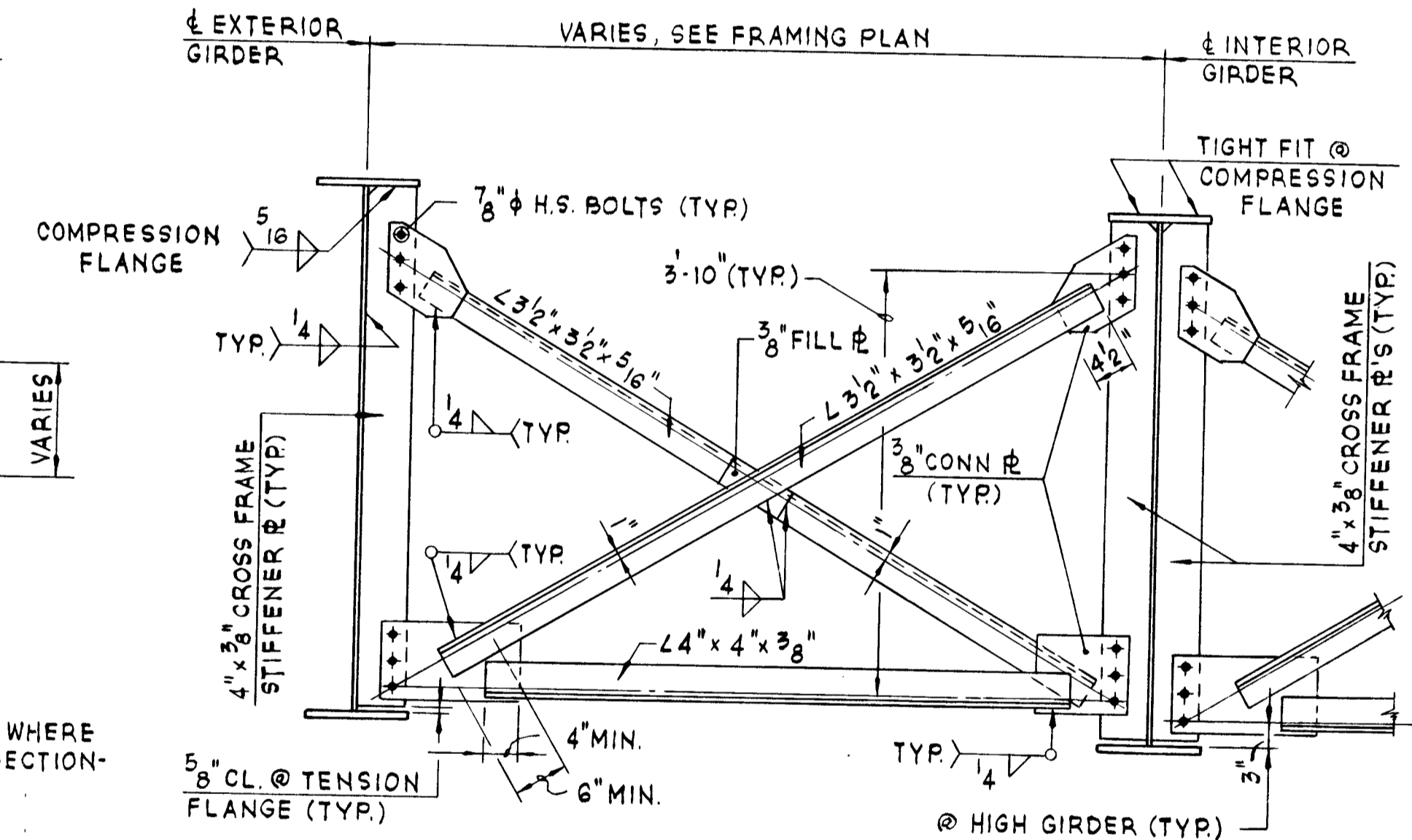
SECTION A-A  
SCALE: 1" = 1'-0"

ELEVATION-STOOL  
SCALE: 1" = 1'-0"

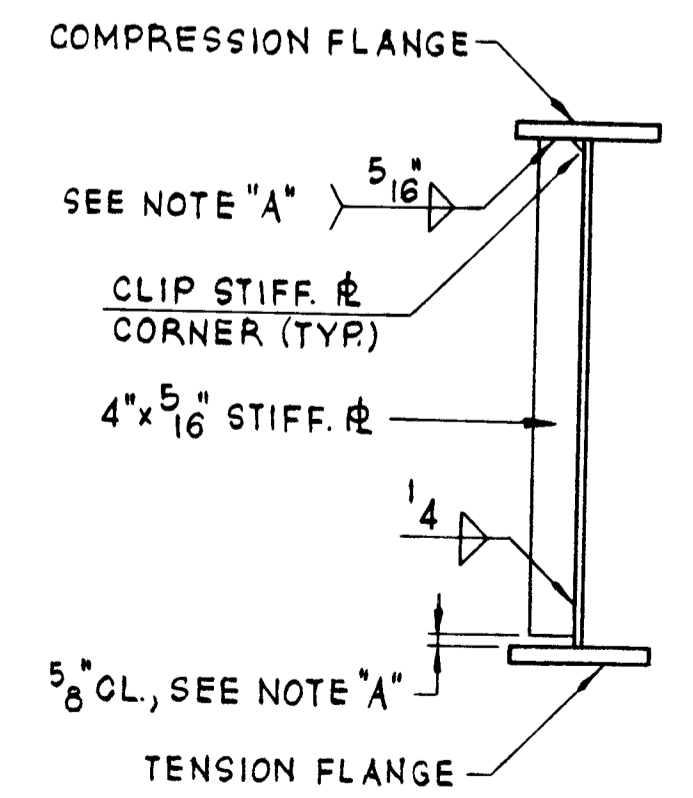


DETAIL A  
NO SCALE

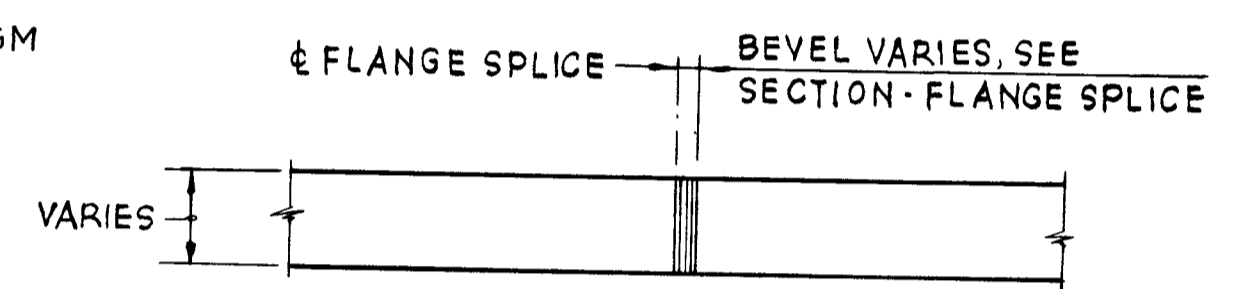
SHEAR CONNECTOR DETAIL  
SCALE: 1/2" = 1'-0"



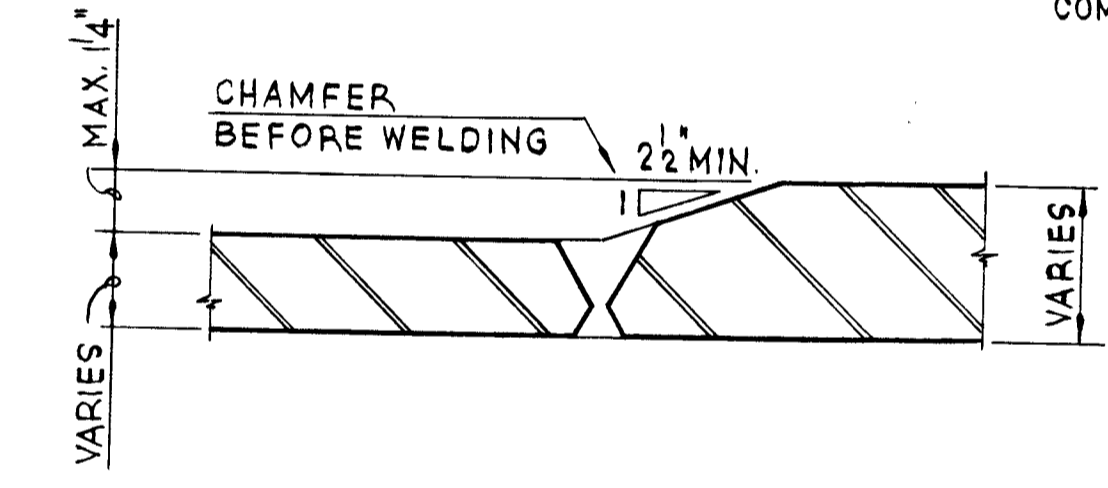
INTERMEDIATE CROSS FRAME DETAIL  
SCALE: 3/4" = 1'-0"



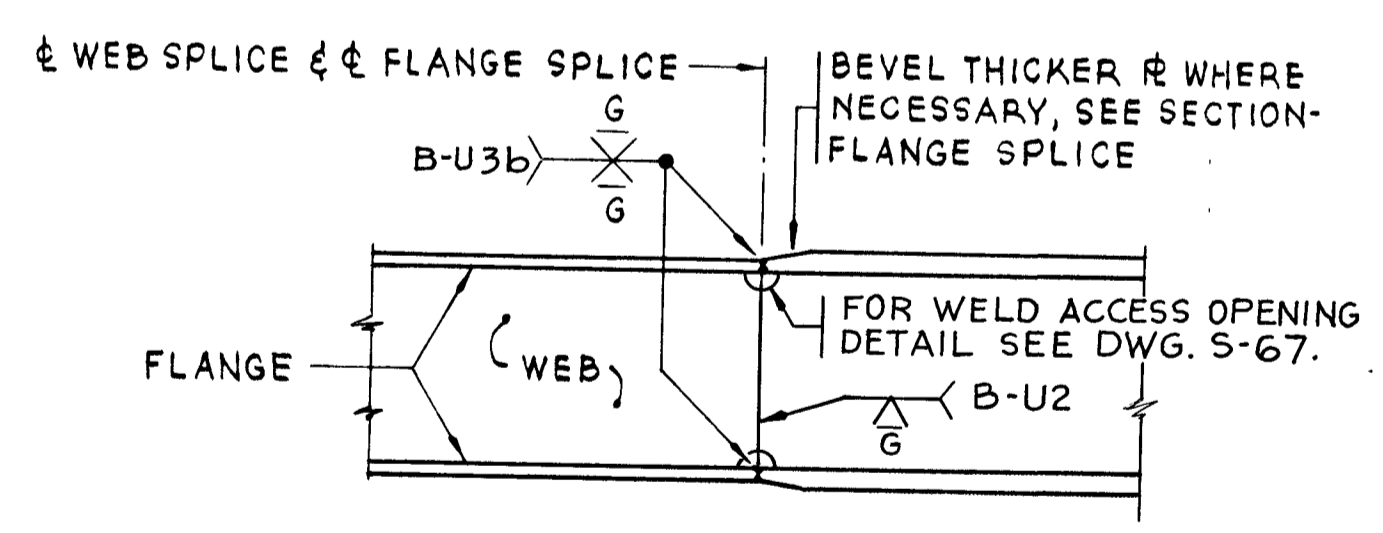
INTERMEDIATE STIFFENER DETAIL  
NO SCALE



PLAN - FLANGE SPLICE



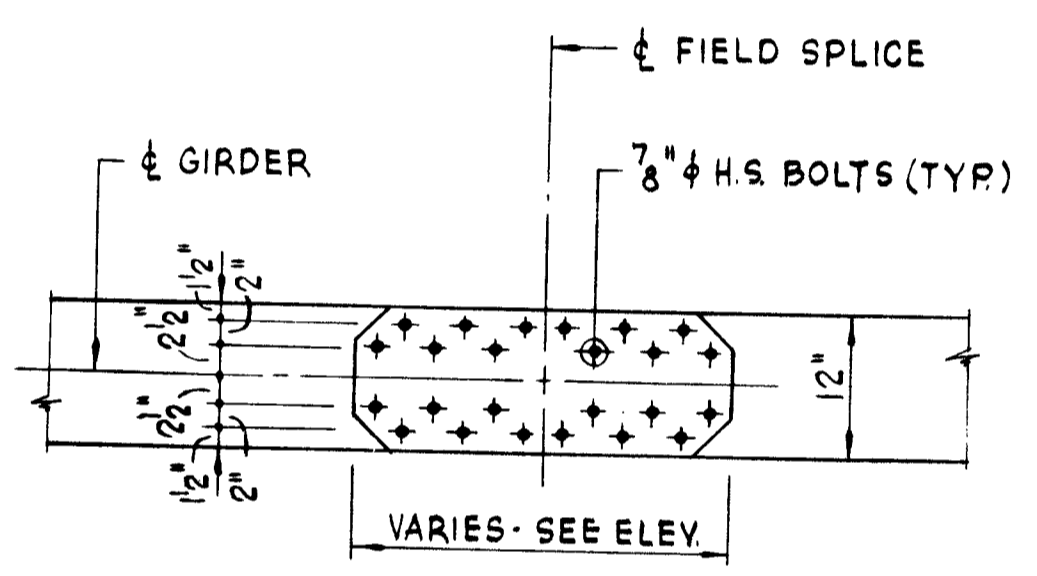
SECTION - FLANGE SPLICE



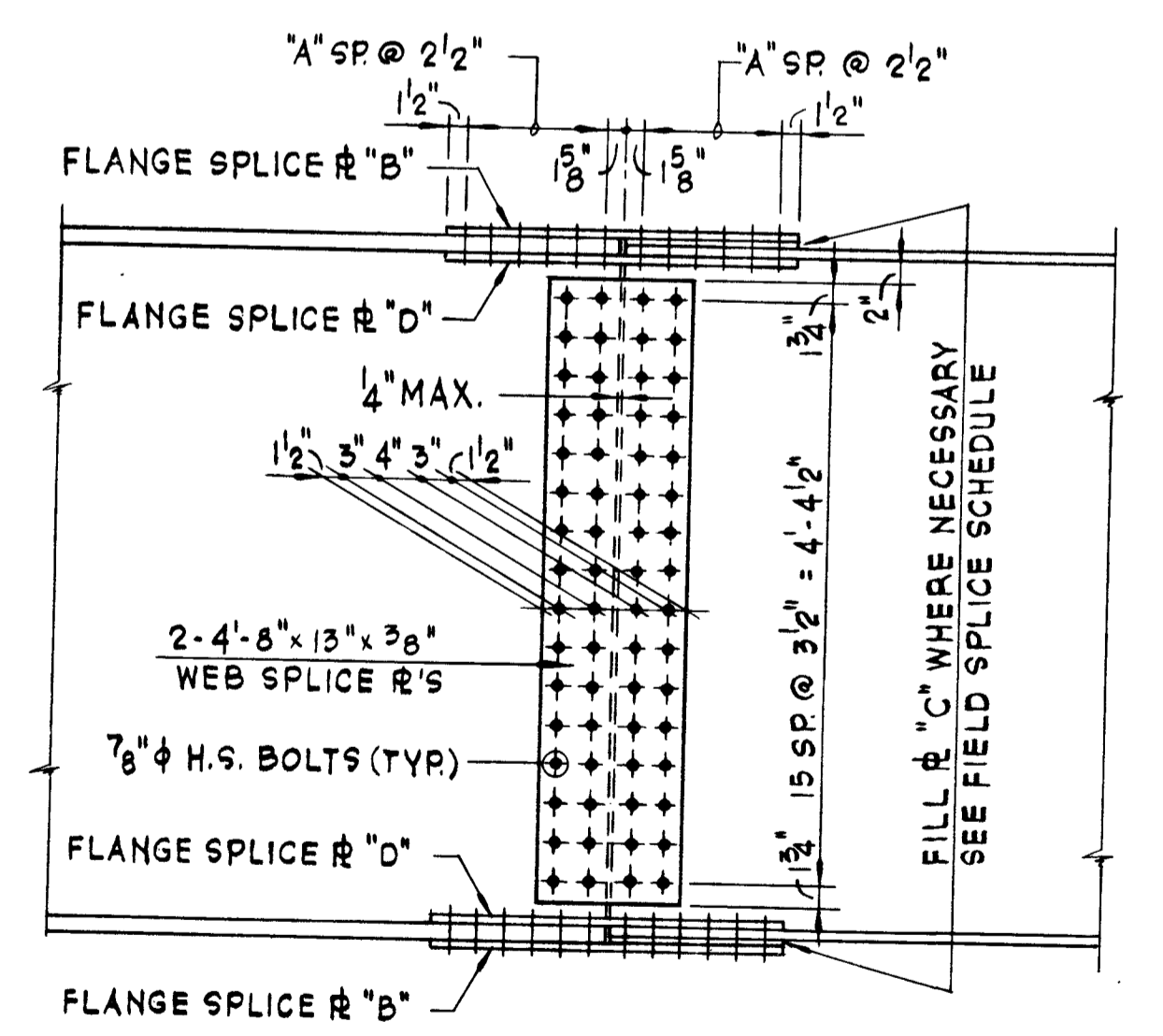
FIELD WELDED SPLICE DETAILS  
NO SCALE

FIELD SPLICE SCHEDULE					
GIRDERS	SP LINE	A	B	C	D
G64-G70 & G244-G250	31 & 32	5	12" x 1/2" x 2'-7 1/4"	12" x 1/8" x 1'-3 1/2"	2 R'S 5 1/2" x 2'-7 1/4"
G72-G78, G80, G252-G259	33	4	12" x 1/2" x 2'-2 1/4"	12" x 1/8" x 1'-1"	2 R'S 5 1/2" x 2'-2 1/4"
G72-G78, G80, G252-G259	34	5	12" x 1/2" x 2'-7 1/4"	-	2 R'S 5 1/2" x 2'-7 1/4"
G72-G78, G80, G252-G260	35 & 36	7	12" x 3/4" x 3'-5 1/4"	12" x 1/8" x 1'-8"	2 R'S 5 1/2" x 3'-5 1/4"
G72-G80 & G252-G260	37	5	12" x 1/2" x 2'-7 1/4"	12" x 1/8" x 1'-3 1/2"	2 R'S 5 1/2" x 2'-7 1/4"
G72-G80 & G252-G260	38	4	12" x 1/2" x 2'-2 1/4"	12" x 1/4" x 1'-1"	2 R'S 5 1/2" x 2'-2 1/4"

\* SEE DETAIL "A" (THIS DWG.), FOR CLARIFICATION @ BRG. OR DIAPHRAGM



PLAN - FLANGE SPLICES  
SCALE: 3/4" = 1'-0"



ELEVATION - BOLTED FIELD SPLICE  
SCALE: 3/4" = 1'-0"

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY J.N. LESLIE  
CHECKED D. Koester  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

TABLE A		
STOOL LOCATION	"X"	SLOPE FT./FT.
G63/G71	8 3/8	.0066
G251/G261	8 9/16	.0170
G105/G71	8 7/16	.0299
G287/G261	8 1/2	.0243

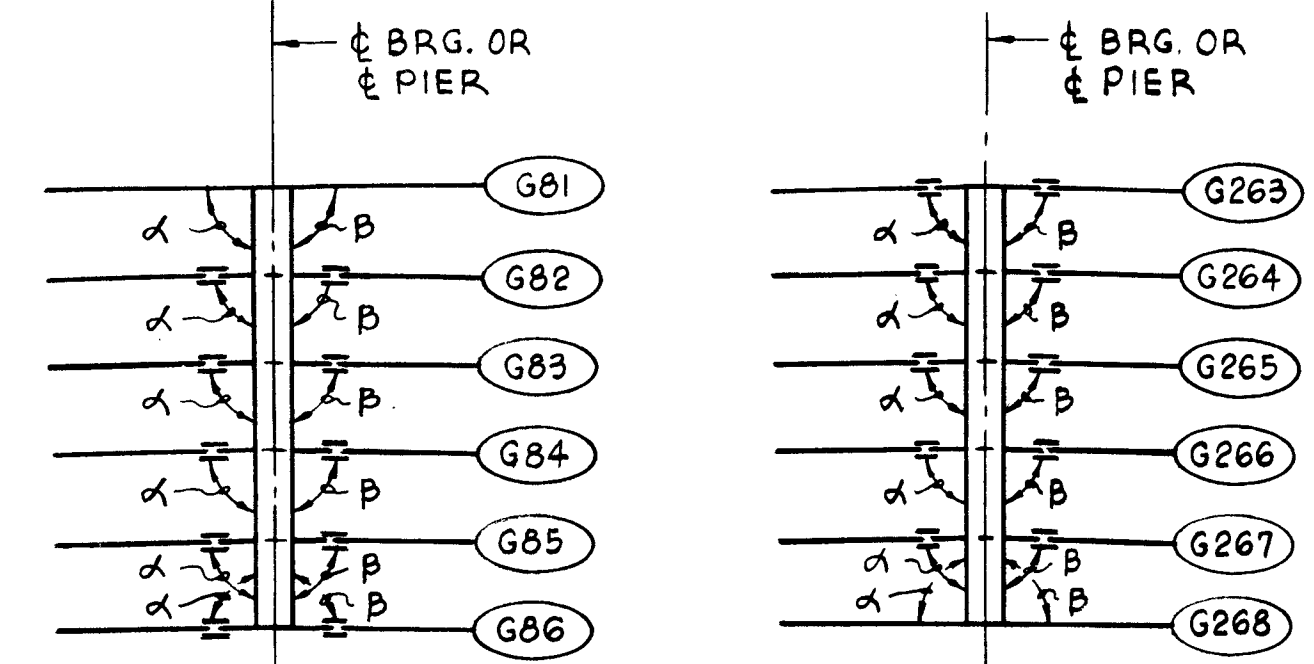
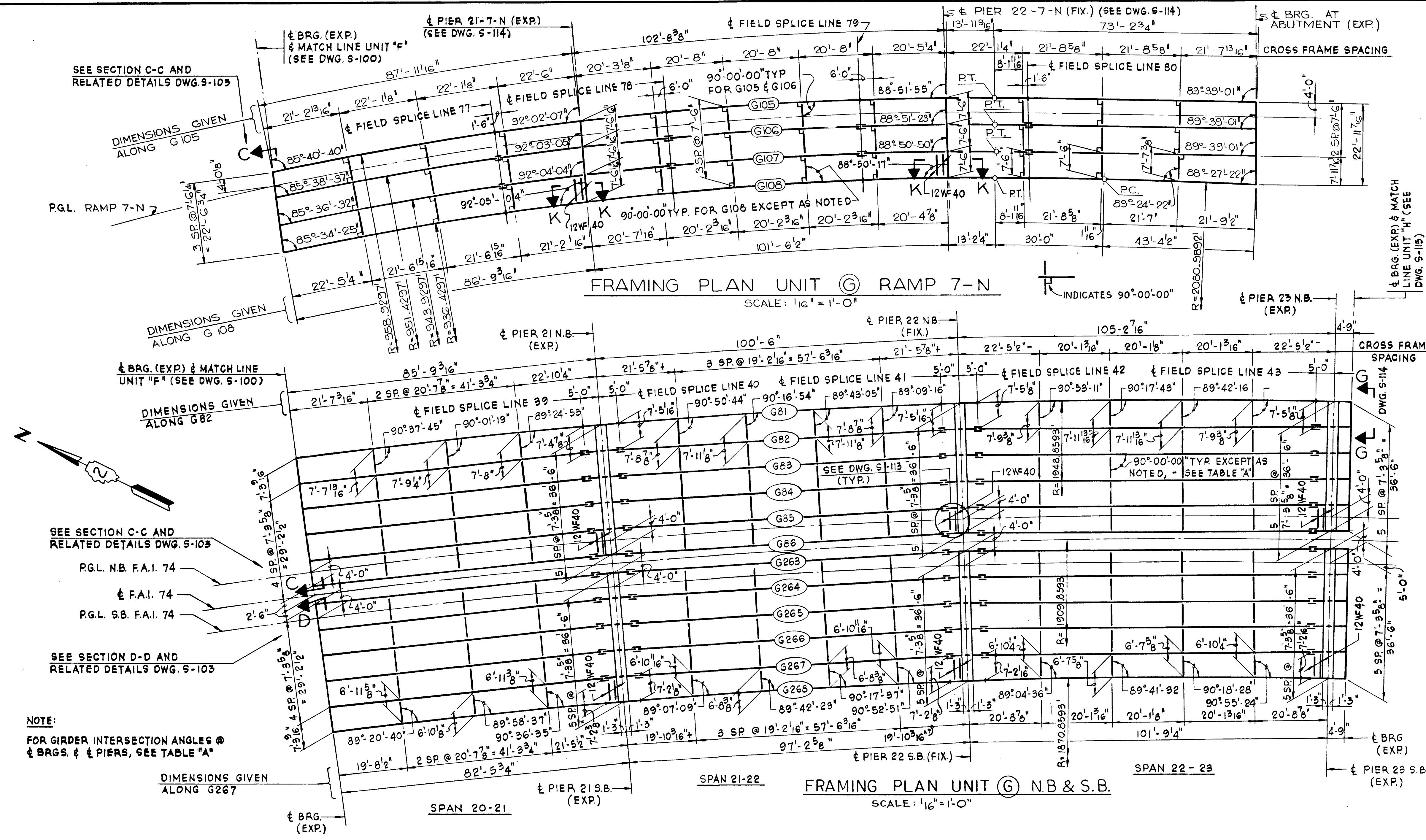
STOOL LEGEND  
STOOLS OVER BRG'S ARE DESIGNATED BY THE MARKS OF THE TWO ADJACENT FASCIA GIRDERS

NOTES  
WORK THIS DWG. WITH DWGS. S-100 THRU S-108

MISCELLANEOUS STEEL DETAILS, UNIT "F"  
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20



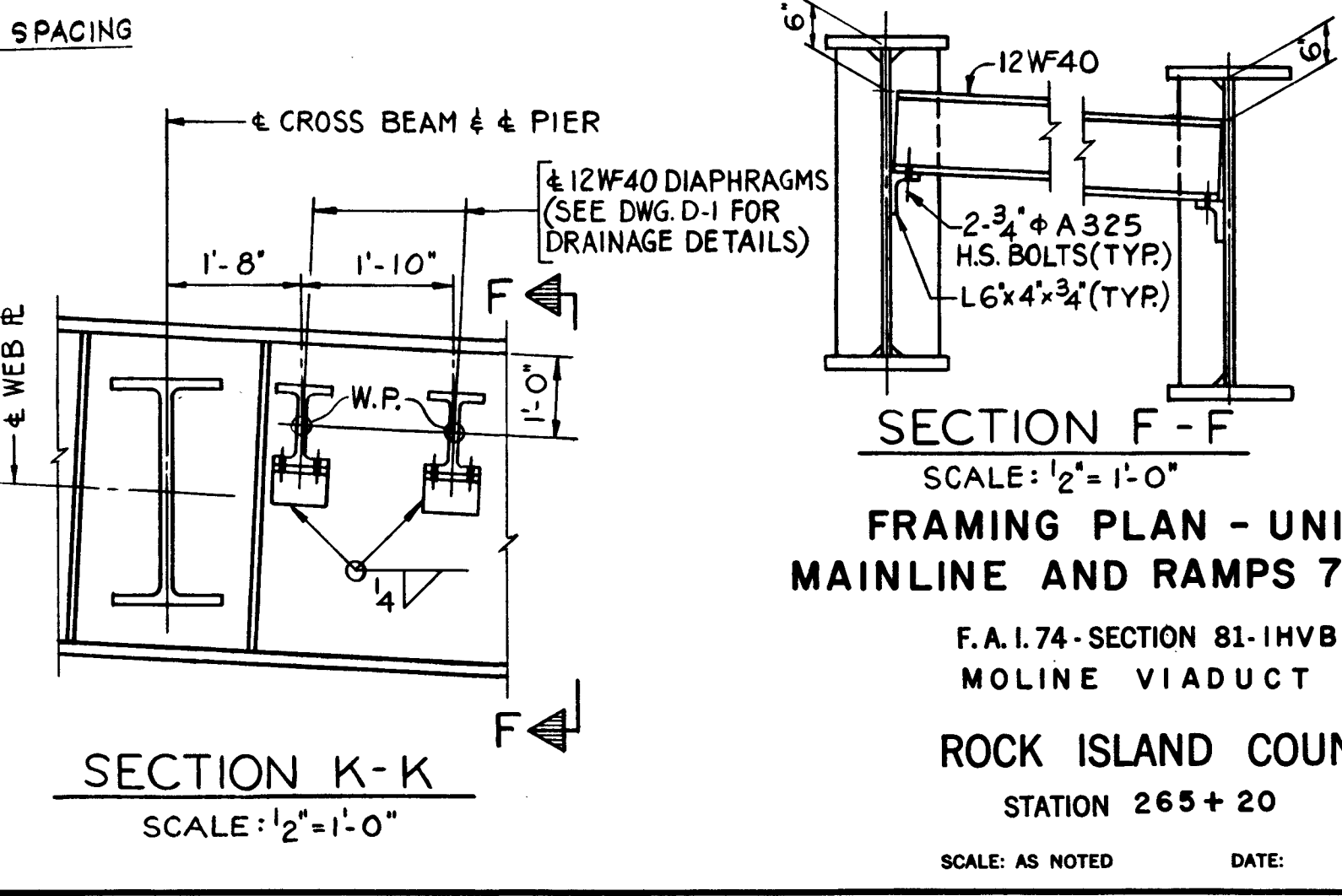
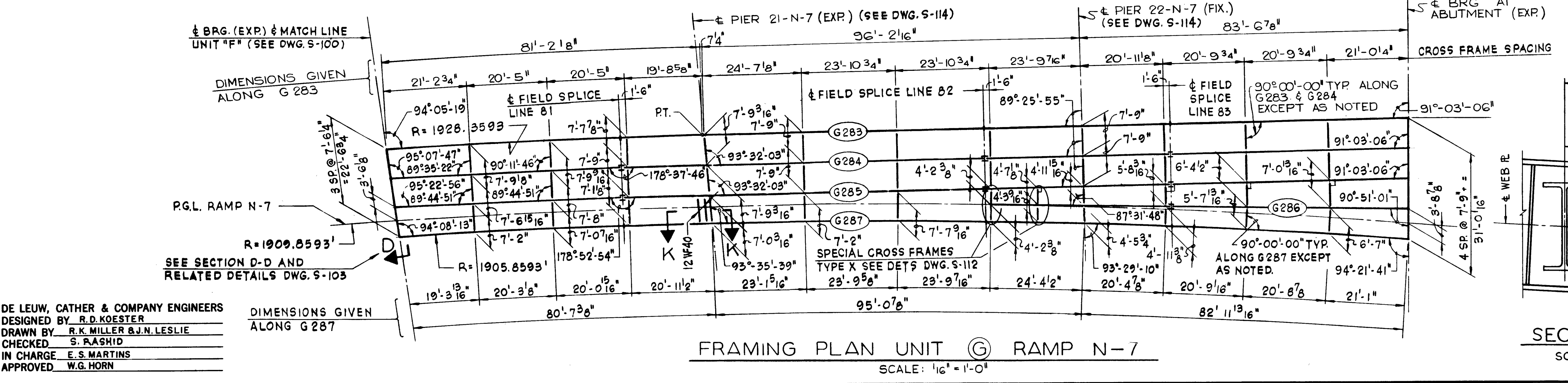
**NOTE: THIS DWG. FOR INFORMATION ONLY.  
WORK SHOWN INCLUDED IN  
SECTION 81-IHVB-I.**



**TABLE A**

BRG. SPAN 20-21 N.B.		PIER 21 N.B.		PIER 22 N.B.		PIER 23 N.B.	
GIRDER	β	α	β	α	β	α	β
G 81	89°39'59"	89°57'21"	89°57'21"	89°57'21"	89°57'21"	89°57'21"	89°57'21"
G82-G86	88°17'44"	88°44'17"	88°31'01"	88°31'01"	88°26'51"	88°26'51"	89°55'57"
BRG. SPAN 20-21 S.B.		PIER 21 S.B.		PIER 22 S.B.		PIER 23 S.B.	
GIRDER	β	α	β	α	β	α	β
G268	90°27'06"	90°02'45"	90°02'45"	90°02'45"	90°02'45"	90°02'45"	90°02'45"
G267-G263	88°17'44"	88°44'17"	88°31'01"	88°31'01"	88°26'51"	88°26'51"	89°55'41"

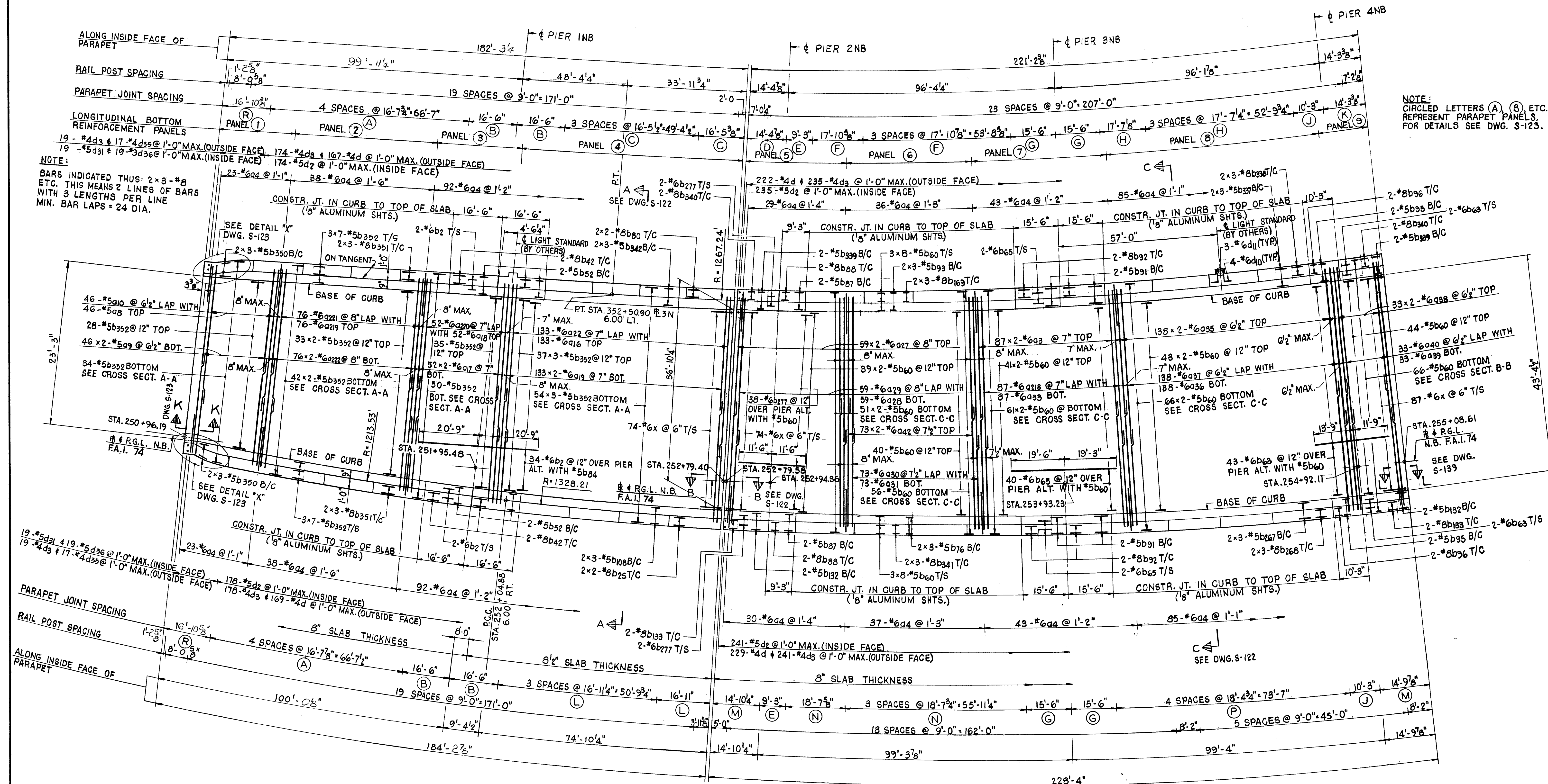
**NOTES**  
 WORK THIS DWG. WITH DWGS. S-110 THRU S-114  
 ALL DIMENSIONS ARE GIVEN ALONG  $\phi$  WEB ON A HORIZONTAL PLANE @ 50°F TEMP.  
 ALL ANGLES SHOWN MEASURED TO CURVED GIRDER ARE MEASURED TO A LINE TANGENT TO  $\phi$  WEB OF CURVED GIRDER @ POINT INDICATED.  
 TYPES OF BEARINGS INDICATED REFER TO MOVEMENT IN LONGITUDINAL DIRECTION ONLY. SEE BEARING DWGS. FOR ADDITIONAL DATA.  
 FOR GIRDER LENGTHS, SEE DWGS. S-110, S-111 & S-112



DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY R.D. KOESTER  
 DRAWN BY R.K. MILLER & J.N. LESLIE  
 CHECKED S. RASHID  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

**SECTION F-F**  
 SCALE: 1/2" = 1'-0"  
**FRAMING PLAN - UNIT "G"**  
 MAINLINE AND RAMPS 7-N & N-7  
 F.A.I. 74-SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265+20  
 SCALE: AS NOTED DATE:

Sum S-109



NOTE:  
 BARS INDICATED THUS: 2x3-#8  
 ETC. THIS MEANS 2 LINES OF BARS  
 WITH 3 LENGTHS PER LINE  
 MIN. BAR LAPS = 24 DIA.

NOTE:  
 CIRCLED LETTERS (A), (B), ETC.  
 REPRESENT PARAPET PANELS.  
 FOR DETAILS SEE DWG. S-123.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	567.3
REINFORCEMENT	POUND	157,932
ALUMINUM RAILING	LIN. FT.	816
PROTECTIVE COAT	SQ. YD.	320
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	136
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	1668

PLAN  
 NOT TO SCALE

NOTES:  
 TRANSVERSE REINFORCEMENT IS TO BE PLACED RADIALLY. SPACING  
 SHOWN IS INTENDED AS MAXIMUM ALONG THE LONGER SIDE OF DECK.  
 ALL HORIZONTAL DIMENSIONS ARE AT 50°F.  
 FOR RAIL POST, PARAPET JOINT AND LIGHT STANDARD  
 ANCHORAGE DETAILS, SEE DWG. NO. S-172  
 FOR SCUPPER LOCATIONS, SEE DWG. NO. S-1  
 FOR SCUPPER DETAILS, SEE DWG. NO. D-1  
 FOR DETAIL OF 1/8" ALUMINUM SHEET SEE DWG. S-127  
 FOR METHOD OF DETERMINING FILLET HEIGHTS  
 SEE DWG. S-132.  
 WORK THIS DRAWING WITH DWG. S-121 THRU S-125A

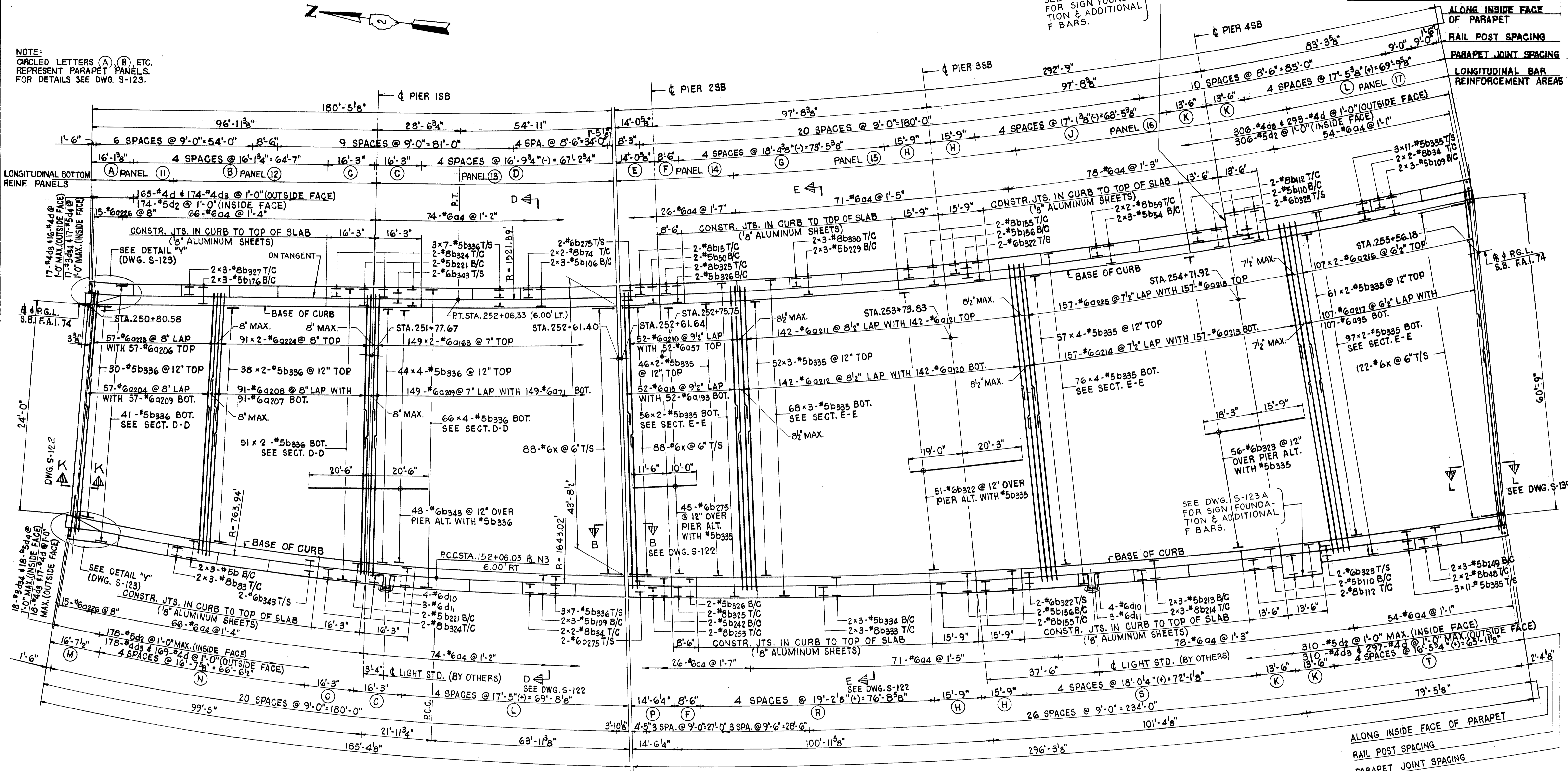
B/C = BOTTOM OF CURB  
 T/C = TOP OF CURB  
 T/S = TOP OF SLAB

DECK SLAB - UNIT "A"  
 NORTH BOUND PLAN  
 F.A.I. 74 - SECTION 81-1HVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265 + 20  
 SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY R.D. ROESTER  
 DRAWN BY D.C. HAMILTON  
 CHECKED BY [Signature]  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HV8	ROCK ISLAND	298	158
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

NOTE:  
CIRCLED LETTERS (A), (B), ETC.  
REPRESENT PARAPET PANELS.  
FOR DETAILS SEE DWG. S-123.



NOTE:  
BARS INDICATED THUS: 2x3-#8  
ETC. THIS MEANS 2 LINES OF BARS  
WITH 3 LENGTHS PER LINE  
MIN. BAR LAPS = 24 DIA.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY D.C. HAMILTON  
CHECKED BY [Signature]  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	723.6
REINFORCEMENT	POUND	219,835
ALUMINUM RAILING	LIN. FT.	945
PROTECTIVE COAT	SQ. YD.	375
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	201
COAL TAR INTERLAYER, PROTECTIVE COAT	-SQ. YD.	2454

PLAN  
NOT TO SCALE

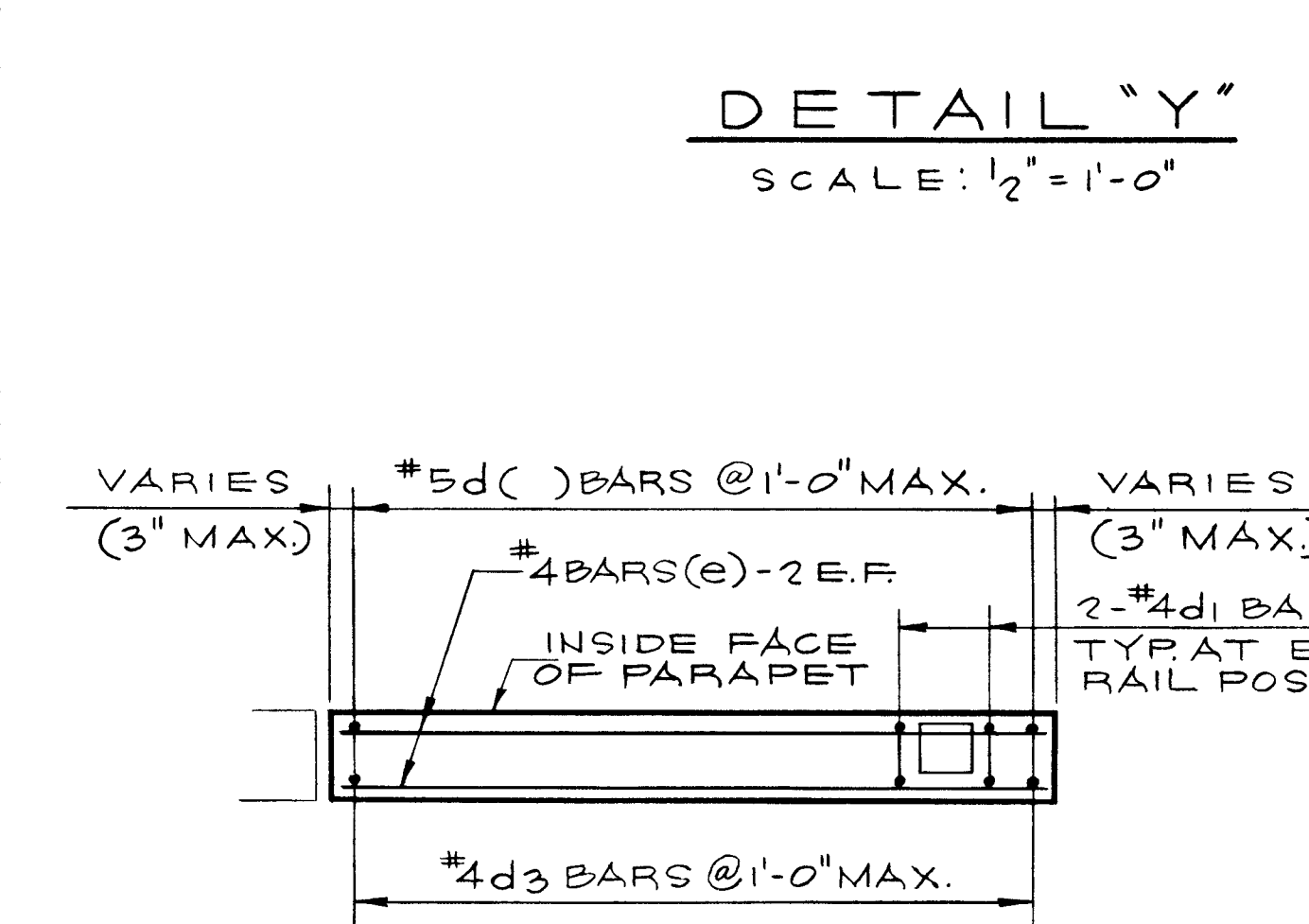
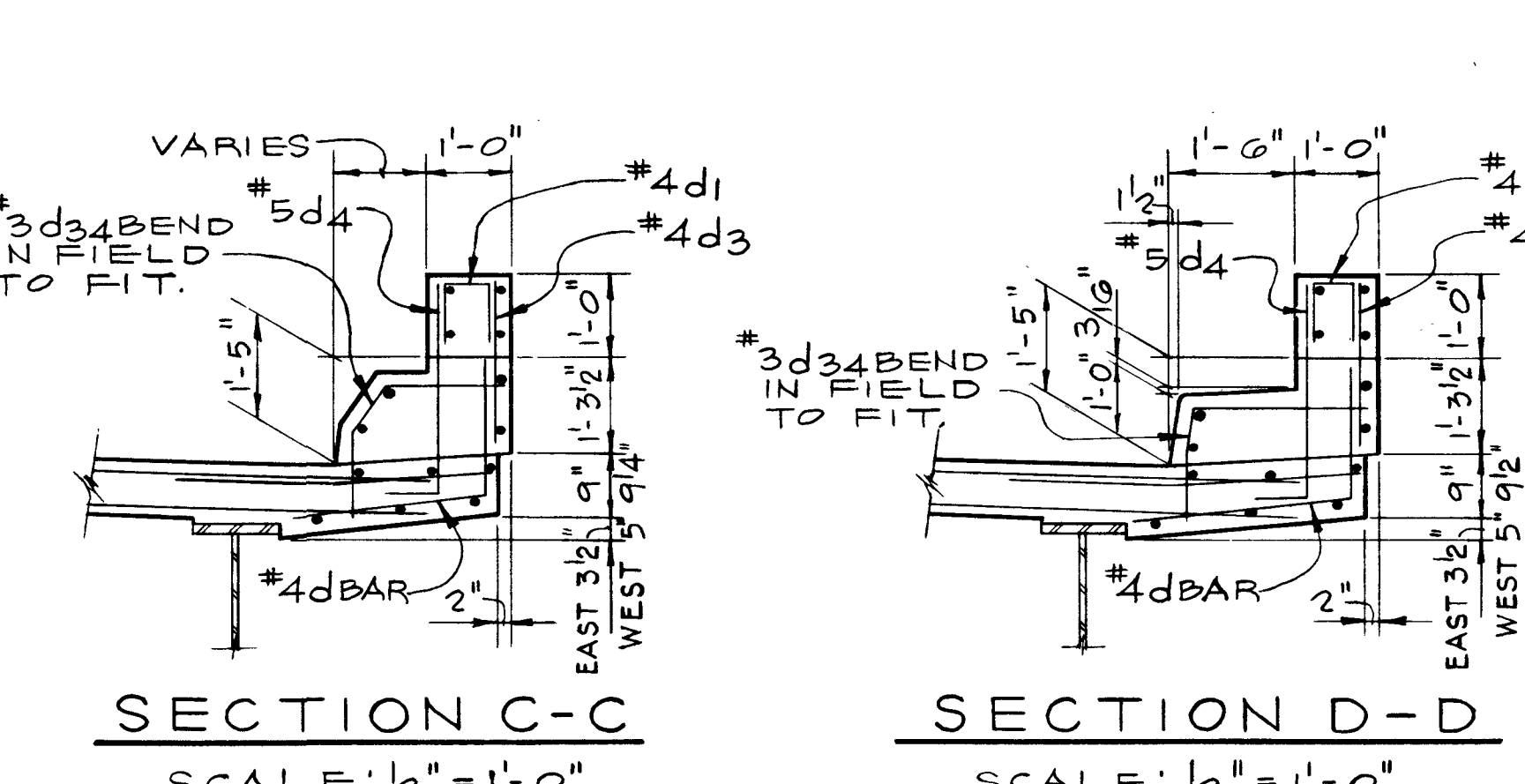
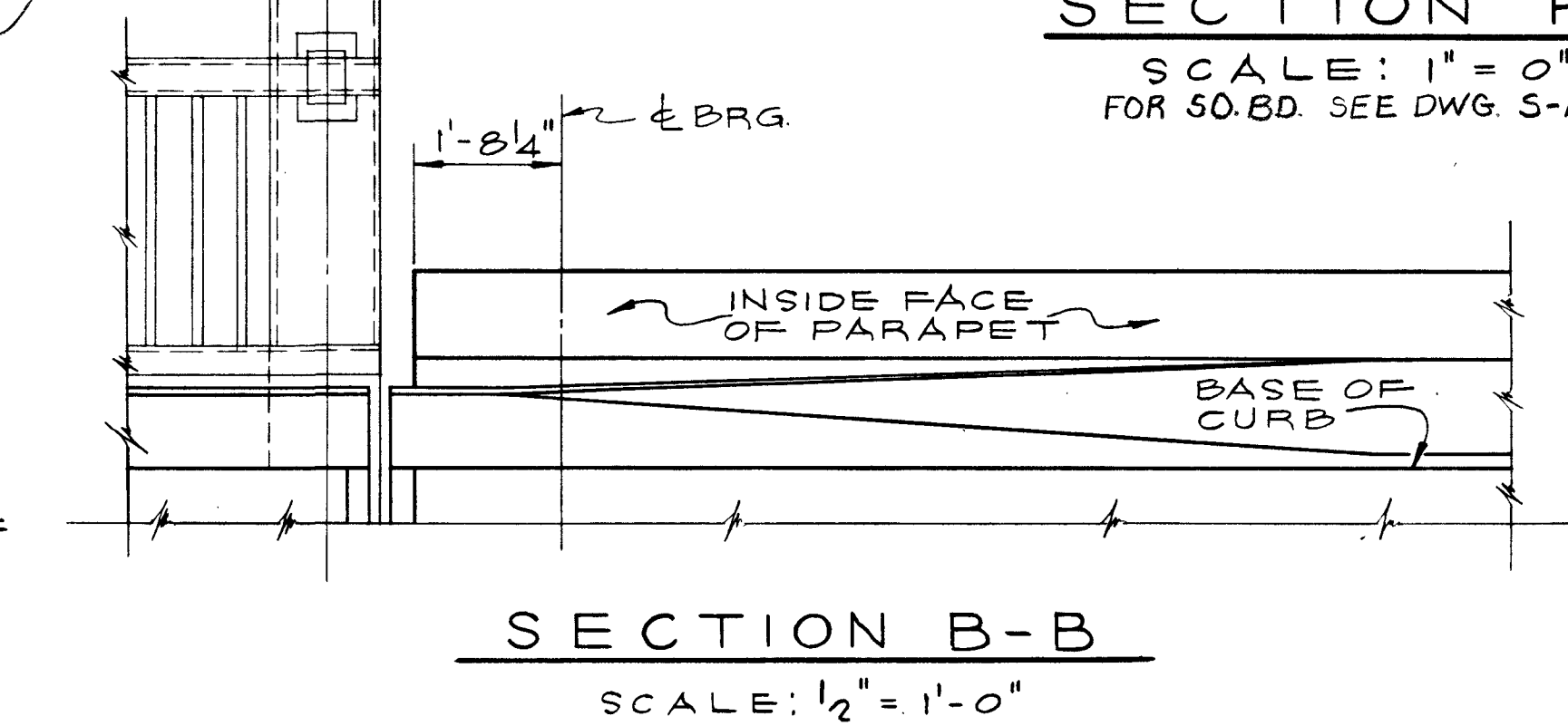
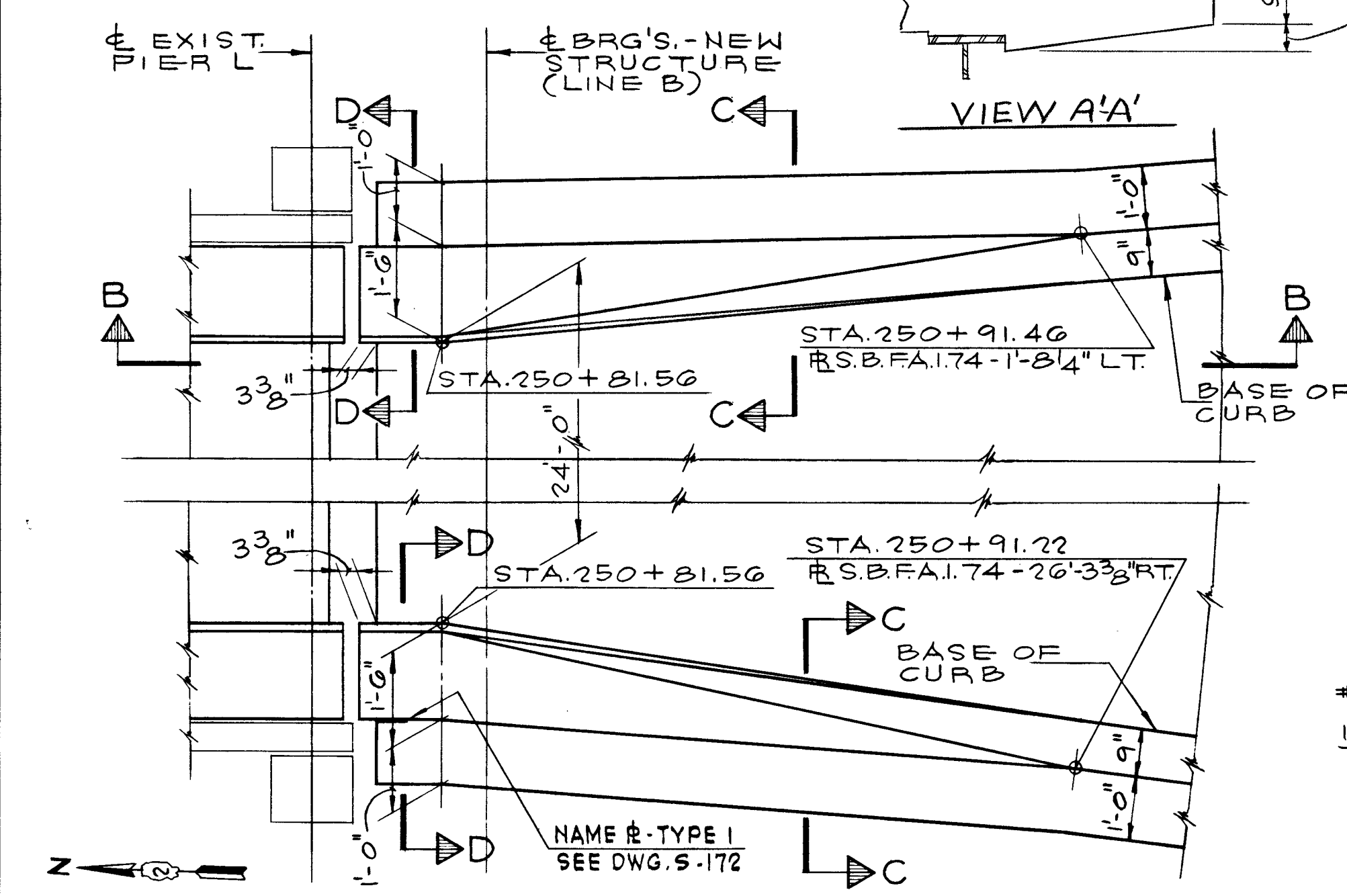
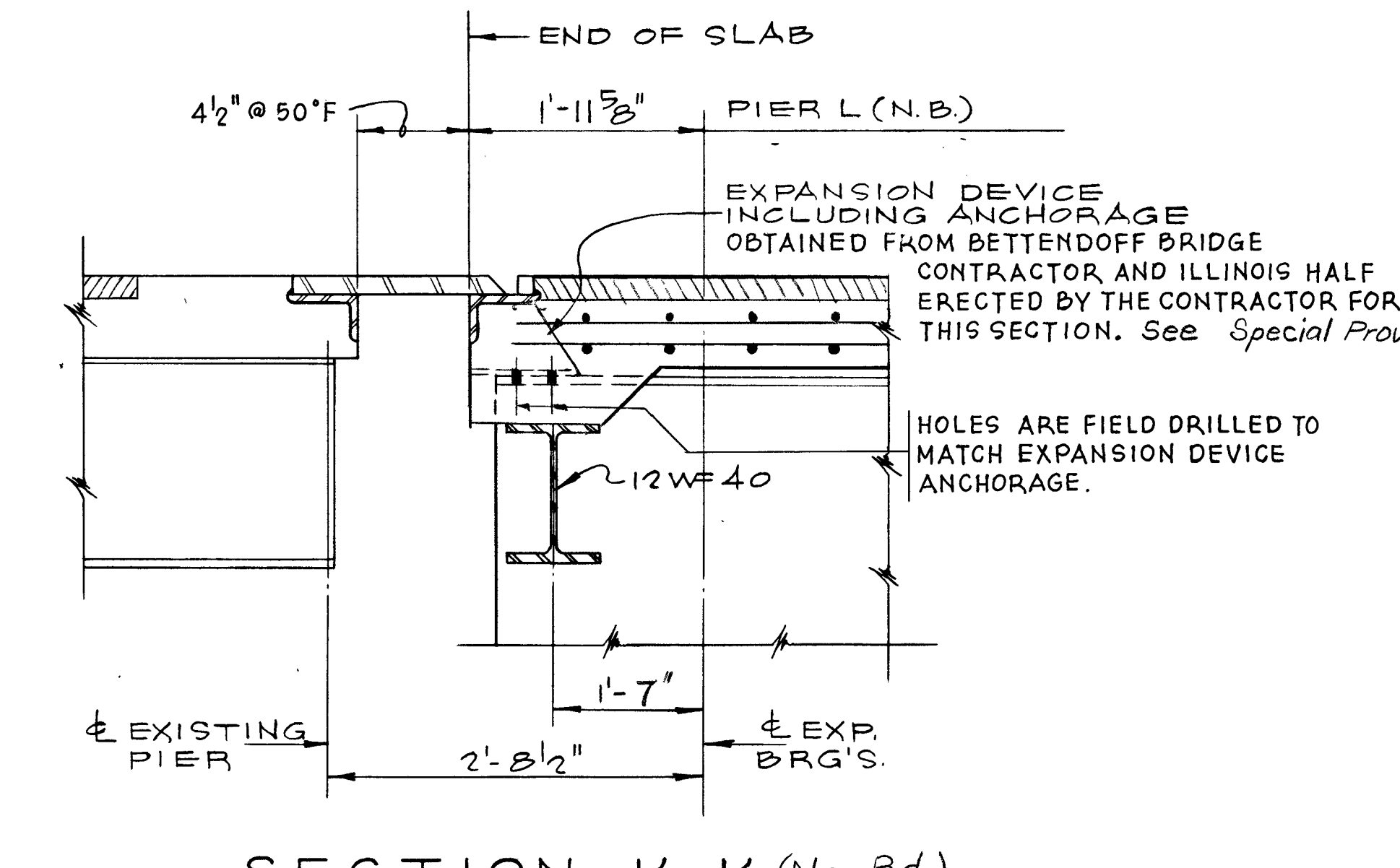
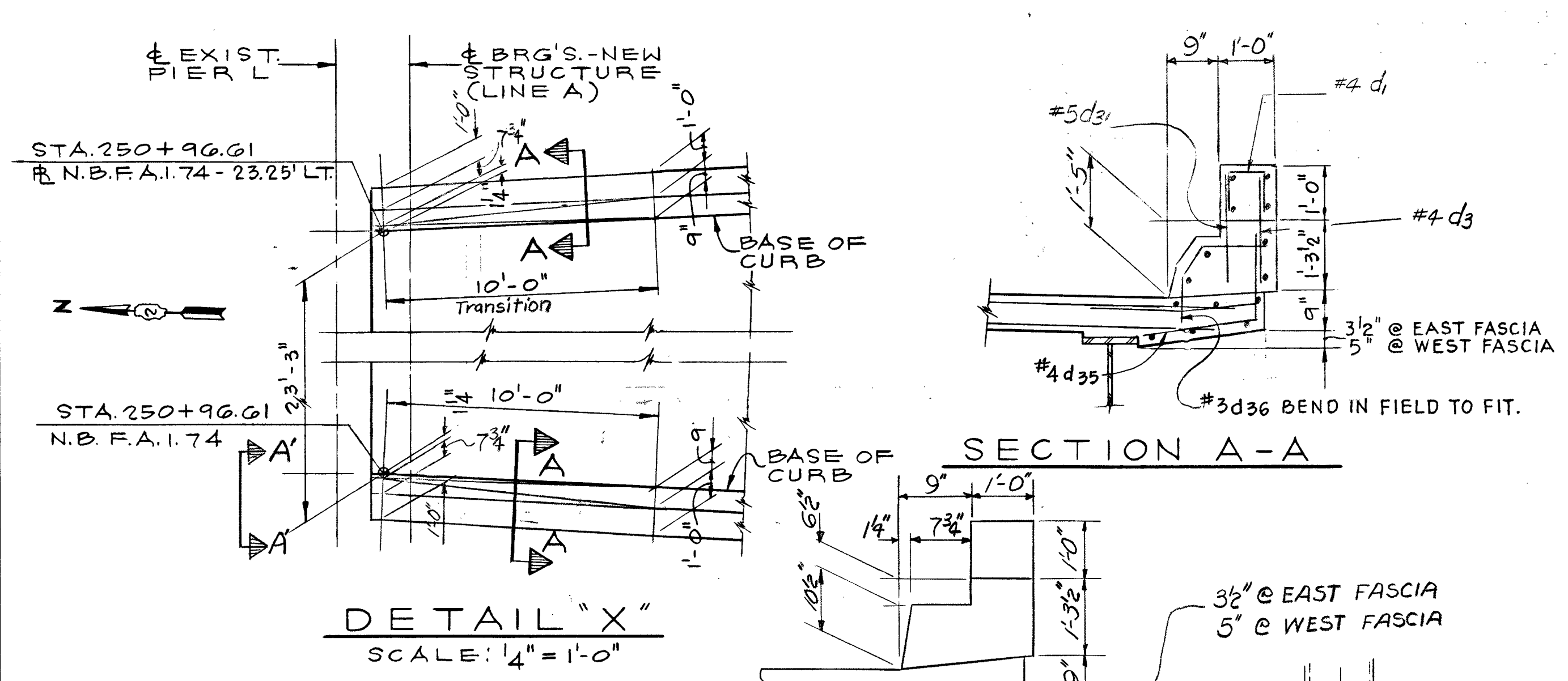
NOTES:  
ALL HORIZONTAL DIMENSIONS ARE AT 50° F  
FOR RAIL POST, PARAPET JOINT AND LIGHT STANDARD  
ANCHORAGE DETAILS, SEE DWG. NO. S-172  
FOR SCUPPER LOCATIONS, SEE DWG. NO. S-1  
FOR SCUPPER DETAILS, SEE DWG. NO. D-1  
FOR DETAIL OF "8" ALUMINUM SHEET SEE DWG. S-127  
FOR METHOD OF DETERMINING FILLET HEIGHTS  
SEE DWG. NO. S-132  
WORK THIS DWG. WITH DWG. S-120, AND S-122 THRU S-125 A  
TRANSVERSE REINFORCEMENT TO BE PLACED RADIALLY, SPACING  
SHOWN IS INTENDED AS MAXIMUM ALONG THE LONGER SIDE OF DECK.

LEGEND:  
B/C = BOTTOM OF CURB  
T/C = TOP OF CURB  
T/S = TOP OF SLAB

DECK SLAB - UNIT "A"  
SOUTH BOUND PLAN  
F.A.I. 74 - SECTION 81-1HV8  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	160
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		



NORTH BOUND				
PANEL	NO. OF PANELS	NO. OF #4d3 BARS	NO. OF #5d(c) BARS	NO. OF #4 BARS (e)
(A)	8	18	18	4
(B)	4	17	17	4
(C)	4	17	17	4
(D)	1	15	15	4
(E)	2	10	10	4
(F)	4	19	19	4
(G)	4	16	16	4
(H)	4	19	19	4
(J)	2	11	11	4
(K)	1	15	15	4
(L)	4	18	18	4
(M)	2	16	16	4
(N)	4	20	20	4
(P)	4	19	19	4
(R)	2	19	19	4

SOUTH BOUND				
PANEL	NO. OF PANELS	NO. OF #4d3 BARS	NO. OF #5d(c) BARS	NO. OF #4 BARS (e)
(A)	1	17	17	4
(B)	4	17	17	4
(C)	4	17	17	4
(D)	4	18	18	4
(E)	1	15	15	4
(F)	2	9	9	4
(G)	4	19	19	4
(H)	4	17	17	4
(J)	4	18	18	4
(K)	4	14	14	4
(L)	8	18	18	4
(M)	1	18	18	4
(N)	4	18	18	4
(P)	1	15	15	4
(S)	4	19	19	4
(T)	4	17	17	4

DRAIN REINFORCEMENT		
LOCATION	N.B.	S.B.
PIER 1	8	7
PIER 2	7	5
PIER 3	8	7
PIER 4	8	8

NORTH BOUND REINFORCING BAR LIST					SOUTH BOUND REINFORCING BAR LIST				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE	BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
A3	174	6	22-0	---	A4	738	6	4-0	---
A4	694	6	4-0	---	A15	52	6	20-8	---
A8	46	5	12-0	---	A57	52	6	25-0	---
A9	92	5	15-3	---	A71	149	6	27-0	---
A10	46	5	18-3	---	A95	107	6	36-0	---
A16	133	6	15-9	---	A120	142	6	31-0	---
A17	104	6	18-7	---	A121	142	6	27-9	---
A18	52	6	14-5	---	A163	298	6	23-6	---
A19	266	6	20-0	---	A193	52	6	28-2	---
A22	133	6	24-3	---	A204	57	6	15-3	---
A27	118	6	20-5	---	A206	57	6	16-3	---
A28	59	6	16-11	---	A207	91	6	24-7	---
A29	59	6	23-11	---	A208	91	6	17-4	---
A30	73	6	17-5	---	A209	206	6	19-3	---
A31	73	6	24-9	---	A210	52	6	23-9	---
A33	87	6	18-0	---	A211	142	6	26-7	---
A35	276	6	23-0	---	A212	142	6	23-4	---
A36	138	6	19-0	---	A213	157	6	34-2	---
A37	138	6	27-1	---	A214	157	6	25-9	---
A38	66	6	23-3	---	A215	157	6	30-3	---
A39	33	6	19-2	---	A216	214	6	31-11	---
A40	33	6	27-4	---	A217	107	6	27-10	---
A42	146	6	21-1	---	A223	57	6	18-6	---
A218	87	6	25-9	---	A224	182	6	21-0	---
A219	76	6	13-9	---	A225	157	6	29-9	---
A220	52	6	22-9	---	A226	30	6	4-6	---
A221	76	6	21-3	---	B	6	5	28-7	---
A222	152	6	17-6	---	B15	2	8	13-9	---
A223	38	6	41-6	---	B34	8	8	35-9	---
B25	4	8	34-9	---	B48	4	8	34-0	---
B42	8	8	16-3	---	B50	2	5	13-9	---
B52	8	5	16-3	---	B54	6	5	23-8	---
B350	12	5	28-9	---	B59	4	8	35-3	---
B60	84	5	29-10	---	B74	4	8	34-6	---
B63	47	6	25-6	---	B83	6	8	29-1	---
B65	44	6	38-9	---	B106	6	5	23-3	---
B351	12	8	29-3	---	B109	12	5	24-0	---
B76	6	5	25-9	---	B110	8	5	13-3	---
B80	4	8	33-9	---	B112	8	8	13-3	---
B392	612	5	27-6	---	B155	8	8	15-6	---
B87	4	5	8-11	---	B156	8	5	15-6	---
B88	4	8	8-11	---	B170	27	5	2-6	---
B91	8	5	15-2	---	B176	6	5	27-9	---
B92	8	8	15-2	---	B213	6	5	24-10	---
B93	6	5	24-9	---	B214	6	8	25-4	---
B95	4	5	9-11	---	B221	8	5	16-0	---
B96	4	8	9-11	---	B242	2	5	14-3	---
B108	6	5	23-6	---	B249	6	5	22-10	---
B132	4	5	14-6	---	B253	2	8	14-3	---
B133	4	8	14-6	---	B275	49	6	21-6	---
B169	6	8	25-3	---	B322	55	6	39-3	---
B170	31	5	2-6	---	B323	60	6	34-0	---
B267	6	5	25-3	---	B324	8	8	16-0	---
B268	6	8	25-9	---	B325	4	8	8-3	---
B277	42	6	23-0	---	B326	4	5	8-3	---
B337	6	5	24-3	---	B327	6	8	28-3	---
B338	6	8	24-9	---	B329	6	5	25-4	---
B339	4	5	14-0	---	B330	6	8	25-10	---
B340	4	8	14-0	---	B333	6	8	26-11	---
B341	6	8	26-3	---	B334	6	5	26-5	---
B342	6	5	22-9	---	B335	1478	5	28-1	---
D	787	4	3-7	---	B336	731	5	27-7	---
D1	182	4	2-3	---	B343	47	6	41-0	---
D2	828	5	3-8	---	O	957	4	3-7	---
D3	866	4	2-0	---	O1	216	4	2-3	---
O10	8	6	9-3	---	O2	52	5	3-8	---
O11	6	6	4-0	---	O3	948	4	2-0	---
O35	34	4	3-5	---	O4	35	5	3-0	---
O31	38	5	2-0	---	O10	8	6	9-3	---
O11	6	6	4-0	---	O11	6	6	4-0	---
O34	35	3	3-6	---	O34	35	3	3-6	---
E5	16	4	15-2	---	E7	16	4	18-1	---
E13	32	4	16-3	---	E9	16	4	13-3	---
E24	24	4	16-7	---	E17	16	4	15-6	---
E25	8	4	8-11	---	E28	16	4	16-2	---
E26	16	4	17-6	---	E51	16	4	16-9	---
E27	16	4	17-3	---	E68	4	4	13-9	---
E28	32	4	16-2	---	E69	16	4	17-9	---
E29	8	4	9-11	---	E71	4	4	14-3	---
E32	16	4	18-3	---	E74	16	4	16-0	---
E33	16	4	18-0	---	E92	20	4	15-10	---
E40	4	4	14-0	---	E93	16	4	16-6	---
E76	8	4	14-6	---	E94	8	4	8-3	---
E98	4	4	14-1	---	E95	32	4	17-2	---
X	235	6	4-3	---	E96	20	4	16-4	---
					E97	16	4	18-11	---
					X	298	6	4-3	---

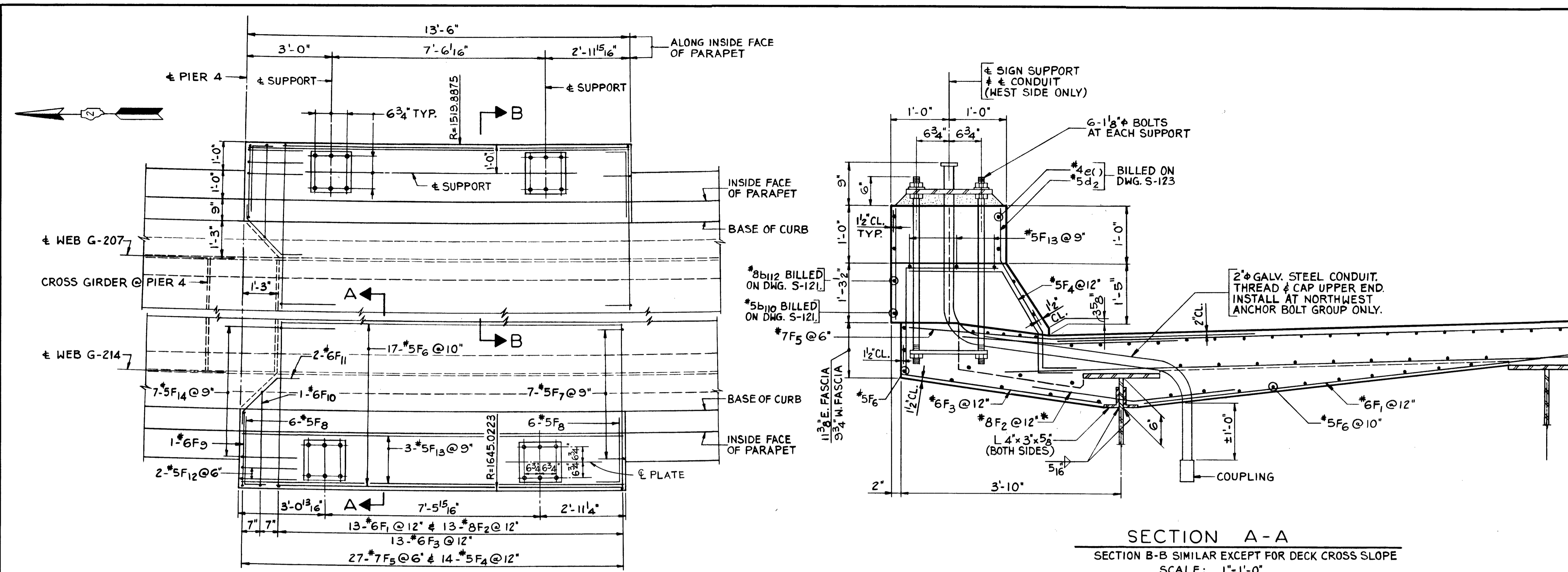
**NOTES:**  
 BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.  
 WORK THIS DRAWING WITH DWG'S. S-120 THRU S-125A.

**MISCELLANEOUS DECK DETAILS - UNIT "A"**  
 F.A.I. 74 - SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265 + 20  
 SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY R.D. KOESTER  
 DRAWN BY G.P. ALLEMAN  
 CHECKED BY [Signature]  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1H-VB	ROCK ISLAND	298	160-A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-123A



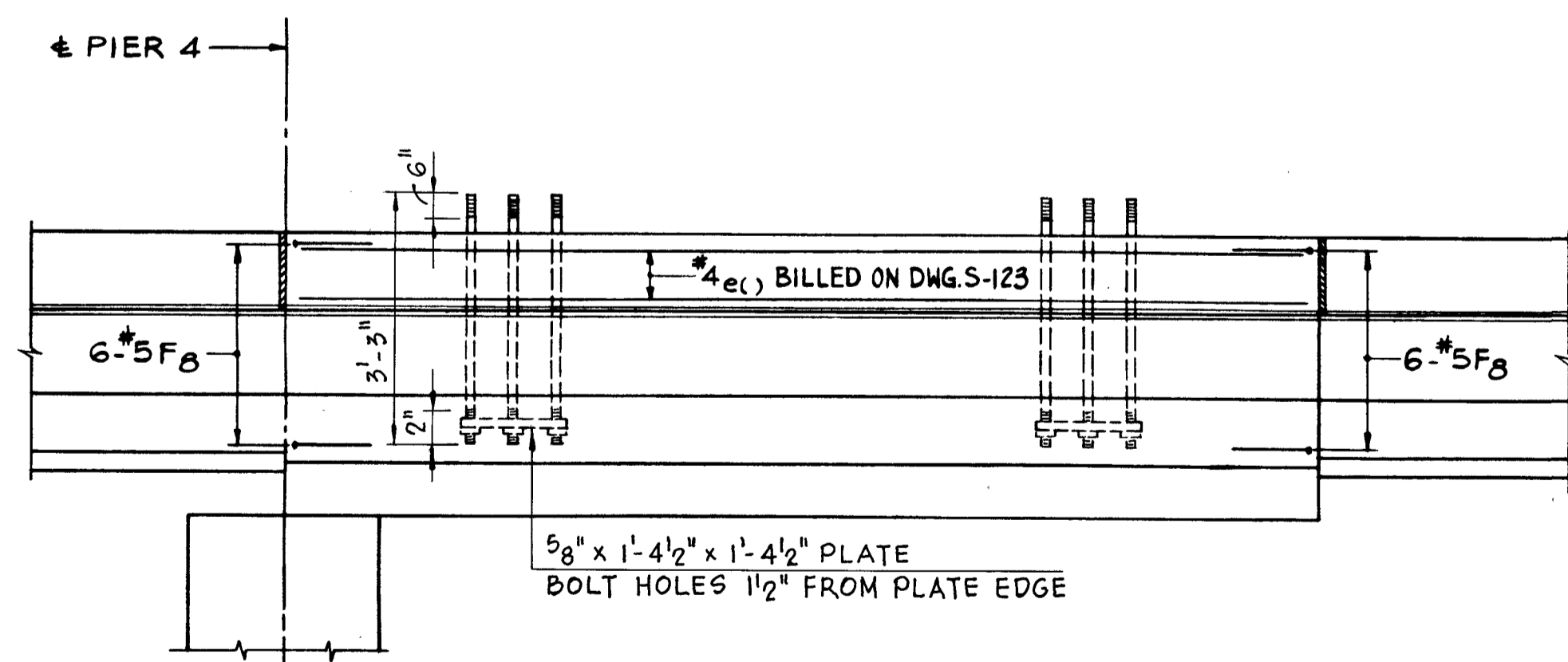
BAR LIST				
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
F1	26	#6	8'-6"	
F2	26	#8	3'-6"	
F3	26	#6	6'-10"	
F4	28	#5	4'-4"	
F5	54	#7	6'-0"	
F6	34	#5	12'-0"	
F7	14	#5	3'-2"	
F8	24	#5	2'-11"	
F9	2	#6	5'-9"	
F10	2	#6	6'-4"	
F11	4	#6	4'-9"	
F12	4	#5	5'-3"	
F13	6	#5	13'-3"	
F14	14	#5	4'-2"	

**PLAN**  
SCALE: 1/2"=1'-0"

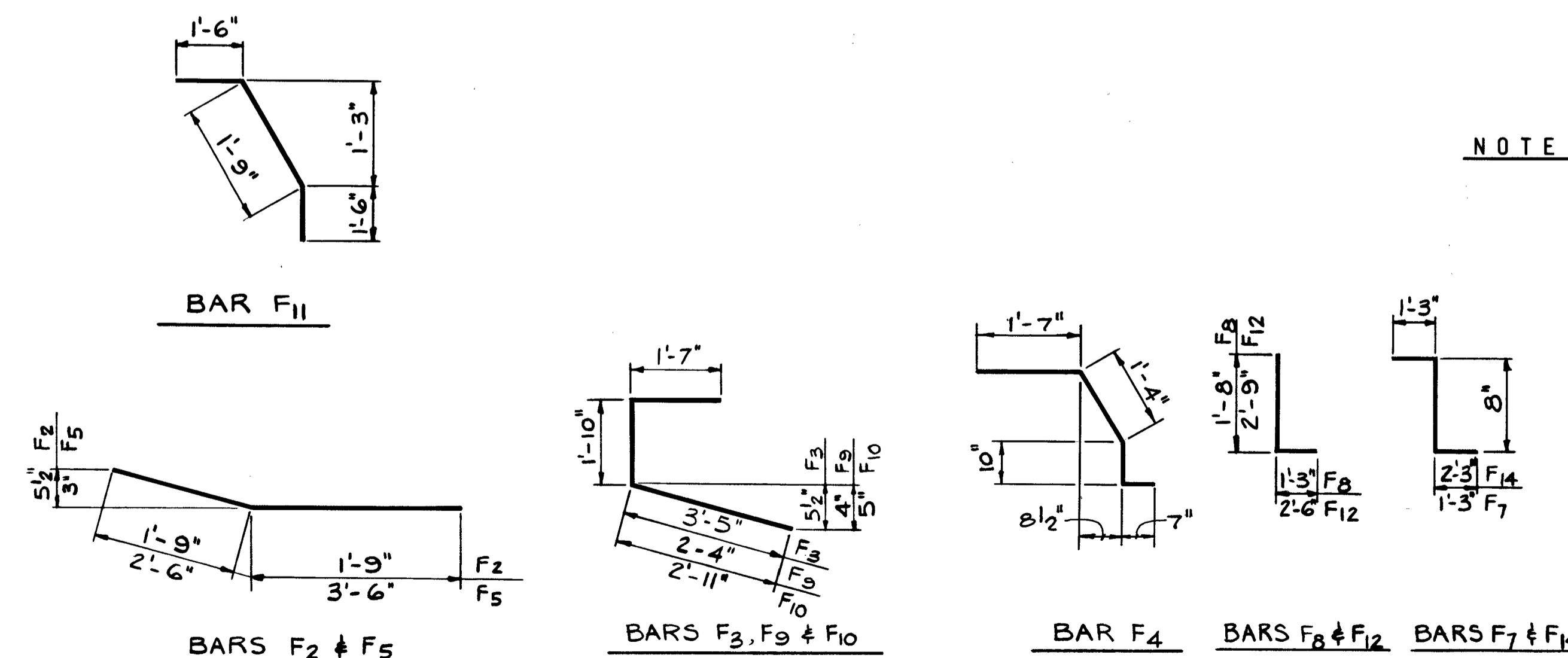
REINFORCEMENT SHOWN FOR WEST SIDE ONLY.  
EAST SIDE IDENTICAL.  
DIMENSIONS SHOWN FOR EAST SIDE ONLY.  
WEST SIDE IDENTICAL, EXCEPT AS SHOWN.

**SECTION A-A**  
SECTION B-B SIMILAR EXCEPT FOR DECK CROSS SLOPE  
SCALE: 1"=1'-0"

\* THREAD F<sub>2</sub> BARS THROUGH HOLES DRILLED IN ANGLES AND GIRDER WEBS.



**ELEVATION**  
SCALE: 1/2"=1'-0"



**NOTE:** QUANTITIES OF CLASS "X" CONCRETE AND REINFORCEMENT BARS ARE INCLUDED IN BILL OF MATERIAL, DRAWING NO. S-121.  
SIGN ANCHORAGE INCIDENTAL TO CLASS "X" CONCRETE.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. D. KENNEDY  
DRAWN BY R. S. GHORBANIAN  
CHECKED [Signature]  
IN CHARGE E. S. MARTINS  
APPROVED W. G. HORN

**SIGN SUPPORT ANCHORAGE**  
F.A. 1.74-SECTION 81-1HVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	298	161
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

	GIRDER G1					GIRDER G2					GIRDER G3					GIRDER G4				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN A-1	0.00	-22.807	613.120	0.000	613.120	0.00	-17.395	613.120	0.000	613.120	0.00	-11.984	613.120	0.000	613.120	0.00	-6.572	613.120	0.000	613.120
	10.00	-23.288	612.982	0.020	613.002	10.00	-17.618	612.990	0.018	613.009	10.00	-11.948	612.998	0.019	613.017	10.00	-6.278	613.006	0.019	613.025
	20.00	-23.769	612.832	0.036	612.868	20.00	-17.841	612.851	0.034	612.886	20.00	-11.912	612.871	0.034	612.906	20.00	-5.983	612.891	0.035	612.925
	30.00	-24.249	612.680	0.046	612.727	30.00	-18.063	612.712	0.043	612.755	30.00	-11.875	612.744	0.043	612.788	30.00	-5.598	612.776	0.043	612.820
	40.00	-24.730	612.527	0.049	612.576	40.00	-18.286	612.572	0.045	612.617	40.00	-11.839	612.617	0.045	612.663	40.00	-5.393	612.663	0.045	612.708
	50.00	-25.211	612.371	0.044	612.416	50.00	-18.508	612.431	0.039	612.470	50.00	-11.803	612.490	0.049	612.531	50.00	-5.098	612.551	0.049	612.591
	60.00	-25.692	612.214	0.033	612.248	60.00	-18.731	612.289	0.028	612.317	60.00	-11.767	612.364	0.029	612.394	60.00	-4.803	612.440	0.029	612.469
	70.00	-26.173	612.055	0.019	612.075	70.00	-18.953	612.146	0.015	612.161	70.00	-11.730	612.237	0.016	612.254	70.00	-4.508	612.329	0.015	612.345
	80.00	-26.653	611.894	0.006	611.901	80.00	-19.176	612.002	0.003	612.006	80.00	-11.694	612.111	0.004	612.116	80.00	-4.214	612.221	0.003	612.225
	90.00	-27.134	611.729	-0.000	611.729	90.00	-19.398	611.858	-0.000	611.857	90.00	-11.658	611.985	0.000	611.986	90.00	-3.919	612.031	-0.000	612.031
	97.92	-27.515	611.597	-0.001	611.596	97.92	-19.572	611.744	-0.002	611.746	97.81	-11.630	611.886	0.004	611.890	97.81	-3.687	612.029	0.002	612.031
SPAN 1-2 (PIER 1 TO EXP BRG)	0.00	-27.515	611.597	-0.001	611.596	0.00	-19.572	611.744	-0.002	611.746	0.00	-11.630	611.886	0.004	611.890	0.00	-3.687	612.029	0.002	612.031
	10.00	-28.077	611.426	-0.004	611.421	10.00	-20.045	611.593	-0.002	611.590	10.00	-12.014	611.752	-0.000	611.752	10.00	-3.983	611.911	-0.001	611.909
	20.00	-28.625	611.250	-0.000	611.250	20.00	-20.503	611.439	0.002	611.441	20.00	-12.383	611.616	0.005	611.621	20.00	-4.265	611.792	0.003	611.795
	30.00	-29.101	611.072	0.008	611.081	30.00	-20.891	611.284	0.012	611.297	30.00	-12.683	611.479	0.016	611.495	30.00	-4.477	611.674	0.013	611.688
	40.00	-29.501	610.894	0.017	610.912	40.00	-21.291	611.130	0.023	611.153	40.00	-12.905	611.343	0.026	611.370	40.00	-4.613	611.557	0.024	611.581
	50.00	-29.823	610.716	0.022	610.739	50.00	-21.435	610.976	0.029	611.005	50.00	-13.052	611.209	0.033	611.242	50.00	-4.673	611.441	0.030	611.472
	60.00	-30.068	610.540	0.022	610.562	60.00	-21.592	610.824	0.029	610.853	60.00	-13.122	611.076	0.033	611.109	60.00	-4.658	611.328	0.030	611.358
	70.00	-30.235	610.364	0.016	610.380	70.00	-21.672	610.673	0.022	610.696	70.00	-13.116	610.946	0.026	610.972	70.00	-4.586	611.216	0.023	611.240
	80.00	-30.325	610.198	0.005	610.204	80.00	-21.676	610.531	0.011	610.543	80.00	-13.034	610.820	0.015	610.836	80.00	-4.399	611.109	0.012	611.121
	81.76	-30.333	610.175	0.004	610.179	82.18	-21.666	610.509	0.009	610.518	82.60	-13.000	610.794	0.012	610.806	83.03	-4.333	611.080	0.008	611.088
	SPAN A&B-1	0.00	-1.161	613.120	0.000	613.120	0.00	1.036	612.779	0.000	612.779	0.00	6.552	612.945	0.000	612.945	0.00	12.067	613.110	0.000
10.00		-1.005	613.014	0.020	613.034	10.00	0.253	612.604	0.022	612.626	10.00	5.959	612.775	0.022	612.798	10.00	11.658	612.946	0.023	612.970
20.00		-0.766	612.908	0.036	612.945	20.00	-0.454	612.434	0.041	612.476	20.00	5.431	612.612	0.042	612.654	20.00	11.314	612.789	0.043	612.832
30.00		-0.445	612.803	0.047	612.851	30.00	-1.102	612.271	0.053	612.325	30.00	4.968	612.455	0.054	612.509	30.00	11.035	612.638	0.055	612.693
40.00		-0.041	612.701	0.049	612.751	40.00	-1.685	612.115	0.059	612.174	40.00	4.570	612.304	0.061	612.365	40.00	10.720	612.493	0.062	612.556
50.00		0.444	612.600	0.044	612.645	50.00	-2.202	611.965	0.054	612.019	50.00	4.237	612.160	0.056	612.217	50.00	10.471	612.355	0.058	612.413
60.00		1.012	612.503	0.034	612.537	60.00	-2.654	611.821	0.046	611.867	60.00	3.969	612.022	0.049	612.071	60.00	10.586	612.223	0.051	612.274
70.00		1.463	612.408	0.019	612.428	70.00	-3.041	611.683	0.030	611.714	70.00	3.767	611.890	0.034	611.925	70.00	10.567	612.097	0.037	612.135
80.00		2.396	612.317	0.006	612.324	80.00	-3.362	611.552	0.015	611.568	80.00	3.630	611.765	0.020	611.786	80.00	10.613	611.978	0.024	612.003
90.00		3.212	612.231	-0.000	612.230	90.00	-3.618	611.427	0.003	611.431	90.00	3.558	611.646	0.009	611.656	90.00	10.723	611.865	0.014	611.879
97.97		3.921	612.165	-0.000	612.164	95.41	-3.729	611.363	-0.003	611.360	95.74	3.546	611.581	0.003	611.584	96.09	10.622	611.799	0.008	611.808
SPAN 1-2 (PIER 1 TO EXP BRG)	0.00	3.922	612.166	-0.001	612.165	0.00	-3.729	611.363	-0.003	611.360	0.00	3.546	611.581	0.003	611.584	0.00	10.822	611.799	0.008	611.808
	10.00	3.962	612.069	-0.006	612.063	10.00	-4.001	611.244	0.004	611.249	10.00	3.389	611.467	0.010	611.477	10.00	10.779	611.669	0.015	611.704
	20.00	4.000	611.973	-0.003	611.970	20.00	-4.207	611.133	0.011	611.144	20.00	3.298	611.359	0.017	611.376	20.00	10.801	611.585	0.022	611.607
	30.00	4.000	611.876	0.005	611.881	30.00	-4.348	611.027	0.020	611.048	30.00	3.272	611.257	0.024	611.284	30.00	10.888	611.487	0.030	611.518
	40.00	4.000	611.779	0.014	611.793	40.00	-4.423	610.929	0.029	610.958	40.00	3.311	611.162	0.035	611.198	40.00	11.040	611.396	0.039	611.435
	50.00	4.000	611.682	0.020	611.702	50.00	-4.432	610.836	0.028	610.865	50.00	3.415	611.074	0.035	611.109	50.00	11.257	611.311	0.039	611.351
	60.00	4.000	611.585	0.021	611.606	60.00	-4.432	610.751	0.024	610.775	60.00	3.584	610.992	0.031	611.024	60.00	11.538	611.233	0.036	611.270
	70.00	4.000	611.488	0.016	611.504	70.00	-4.376	610.671	0.011	610.683	70.00	3.817	610.916	0.019	610.936	70.00	11.885	611.161	0.025	611.187
	80.00	4.000	611.390	0.007	611.397	80.00	-4.066	610.598	-0.005	610.593	80.00	4.119	610.847	0.003	610.851	80.00	12.296	611.096	0.010	611.106
	83.47	4.000	611.354	0.003	611.357	82.90	-4.000	610.579	-0.010	610.568	83.33	4.234	610.826	-0.001	610.824	83.76	12.468	611.073	0.004	611.077
	SPAN B-1	0.00	17.583	613.276	0.000	613.276	0.00	21.200	613.132	0.044	613.176	0.00	23.098	613.441	0.000	613.441				
10.00		17.357	613.118	0.024	613.142	10.00	21.497	612.997	0.054	613.052	10.00	24.370	613.329	0.026	613.355					
20.00		17.195	612.966	0.045	613.012	20.00	21.859	612.869	0.064	612.934	20.00	25.575	613.216	0.047	613.264					
30.00		17.098	612.821	0.056	612.878	30.00	22.283	612.748	0.060	612.809	30.00	26.713	613.102	0.059	613.162					
40.00		17.066	612.682	0.063	612.745	40.00	22.773	612.633	0.056	612.689	40.00	27.784	612.988	0.066	613.055					
50.00		17.092	612.550	0.059	612.609	50.00	23.327	612.524	0.042	612.566	50.00	28.788	612.873	0.061	612.935					
60.00		17.195	612.424	0.052	612.476	60.00	23.945	612.422	0.027	612.449	60.00	29.725	612.758	0.053	612.811					
70.00		17.357	612.304	0.038	612.342	70.00	24.628	612.329	0.015	612.344	70.00	30.595	612.680	0.036	612.716					
80.00		17.584	612.190	0.025	612.216	80.00	25.374	612.253	0.003	612.256	80.00	31.398	612.628	0.019	612.647					
90.00		17.875	612.083	0.015	612.099						90.00	32.134	612.587	0.006	612.594					
96.42		18.098	612.017	0.008	612.026						97.63	32.650	612.564	-0.002						

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	IG-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT I-74	

	GIRDER G 1					GIRDER G 2					GIRDER G 3					GIRDER G 4					
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	
SPAN A-1	0.00	-22.807	613.120	0.000	613.120	0.00	-17.395	613.120	0.000	613.120	0.00	-11.984	613.120	0.000	613.120	0.00	-6.572	613.120	0.000	613.120	
	10.00	-23.288	612.982	0.020	613.002	10.00	-17.618	612.990	0.018	613.009	10.00	-11.948	612.998	0.019	613.017	10.00	-6.278	613.006	0.019	613.025	
	20.00	-23.769	612.832	0.036	612.868	20.00	-17.841	612.851	0.034	612.886	20.00	-11.912	612.871	0.034	612.906	20.00	-5.983	612.891	0.034	612.925	
	30.00	-24.249	612.680	0.046	612.727	30.00	-18.063	612.712	0.043	612.755	30.00	-11.875	612.744	0.043	612.788	30.00	-5.698	612.776	0.043	612.820	
	40.00	-24.730	612.527	0.049	612.576	40.00	-18.286	612.572	0.045	612.617	40.00	-11.859	612.617	0.045	612.653	40.00	-5.393	612.668	0.045	612.708	
	50.00	-25.211	612.371	0.044	612.416	50.00	-18.508	612.431	0.039	612.470	50.00	-11.803	612.490	0.040	612.531	50.00	-5.098	612.551	0.040	612.591	
	60.00	-25.692	612.214	0.033	612.248	60.00	-18.731	612.289	0.028	612.317	60.00	-11.730	612.237	0.016	612.254	60.00	-4.803	612.440	0.029	612.469	
	70.00	-26.173	612.055	0.019	612.075	70.00	-18.953	612.146	0.015	612.161	70.00	-11.694	612.111	0.004	612.116	70.00	-4.508	612.329	0.015	612.345	
	80.00	-26.653	611.894	0.006	611.901	80.00	-19.176	612.002	0.003	612.006	80.00	-11.658	611.985	0.000	611.986	80.00	-4.214	612.221	0.003	612.225	
	90.00	-27.134	611.729	-0.000	611.729	90.00	-19.398	611.858	-0.000	611.857	90.00	-11.630	611.886	0.004	611.890	90.00	-3.919	612.113	-0.000	612.112	
	97.92	-27.515	611.597	-0.001	611.596	97.93	-19.572	611.744	0.002	611.746	97.81	-11.630	611.886	0.004	611.890	97.86	-3.687	612.029	0.002	612.031	
	SPAN 1-2 (PIER 1 TO EXP BRG)	0.00	-27.515	611.597	-0.001	611.596	0.00	-19.572	611.744	0.002	611.746	0.00	-11.630	611.886	0.004	611.890	0.00	-3.687	612.029	0.002	612.031
		10.00	-28.077	611.426	-0.004	611.421	10.00	-20.045	611.593	-0.002	611.590	10.00	-12.014	611.752	-0.000	611.752	10.00	-3.983	611.911	-0.001	611.909
20.00		-28.625	611.250	-0.000	611.250	20.00	-20.503	611.439	0.002	611.441	20.00	-12.383	611.616	0.005	611.621	20.00	-4.265	611.792	0.003	611.795	
30.00		-29.101	611.072	0.008	611.081	30.00	-20.991	611.284	0.012	611.297	30.00	-12.683	611.479	0.016	611.495	30.00	-4.477	611.674	0.013	611.688	
40.00		-29.501	610.894	0.017	610.912	40.00	-21.391	611.130	0.023	611.153	40.00	-12.905	611.343	0.026	611.370	40.00	-4.613	611.557	0.024	611.581	
50.00		-29.823	610.716	0.022	610.739	50.00	-21.791	610.976	0.029	611.005	50.00	-13.052	611.209	0.033	611.242	50.00	-4.673	611.441	0.030	611.472	
60.00		-30.068	610.540	0.022	610.562	60.00	-22.192	610.824	0.029	610.853	60.00	-13.122	611.076	0.033	611.109	60.00	-4.658	611.328	0.030	611.358	
70.00		-30.235	610.364	0.015	610.380	70.00	-22.672	610.673	0.022	610.696	70.00	-13.116	610.946	0.026	610.972	70.00	-4.566	611.216	0.023	611.240	
80.00		-30.325	610.198	0.005	610.204	80.00	-23.152	610.531	0.011	610.543	80.00	-13.034	610.820	0.015	610.836	80.00	-4.399	611.109	0.012	611.121	
81.76		-30.333	610.175	0.004	610.179	82.18	-23.666	610.509	0.009	610.518	82.60	-13.000	610.794	0.012	610.806	83.03	-4.333	611.080	0.008	611.088	
SPAN A&B-1		0.00	-1.161	613.120	0.000	613.120	0.00	1.036	612.779	0.000	612.779	0.00	6.552	612.945	0.000	612.945	0.00	12.067	613.110	0.000	613.110
		10.00	-1.005	613.014	0.020	613.034	10.00	0.253	612.604	0.022	612.626	10.00	5.959	612.775	0.022	612.798	10.00	11.658	612.946	0.023	612.970
		20.00	-0.766	612.908	0.036	612.945	20.00	-0.454	612.434	0.041	612.476	20.00	5.431	612.612	0.042	612.654	20.00	11.314	612.789	0.043	612.832
	30.00	-0.445	612.803	0.047	612.851	30.00	-1.102	612.271	0.053	612.325	30.00	4.968	612.455	0.054	612.509	30.00	11.035	612.638	0.055	612.693	
	40.00	-0.041	612.701	0.049	612.751	40.00	-1.685	612.115	0.059	612.174	40.00	4.570	612.304	0.061	612.365	40.00	10.720	612.493	0.062	612.556	
	50.00	0.444	612.600	0.044	612.645	50.00	-2.202	611.965	0.054	612.019	50.00	4.237	612.160	0.056	612.217	50.00	10.471	612.355	0.058	612.413	
	60.00	1.012	612.503	0.034	612.537	60.00	-2.654	611.821	0.046	611.867	60.00	3.969	612.022	0.049	612.071	60.00	10.586	612.223	0.051	612.274	
	70.00	1.663	612.408	0.019	612.428	70.00	-3.041	611.683	0.030	611.714	70.00	3.767	611.890	0.034	611.925	70.00	10.567	612.097	0.037	612.135	
	80.00	2.396	612.317	0.006	612.324	80.00	-3.362	611.552	0.015	611.568	80.00	3.415	611.765	0.020	611.786	80.00	10.613	611.978	0.024	612.003	
	90.00	3.212	612.231	-0.000	612.230	90.00	-3.618	611.427	0.003	611.431	90.00	3.558	611.646	0.009	611.656	90.00	10.723	611.865	0.014	611.879	
	97.97	3.921	612.165	-0.000	612.164	95.41	-3.729	611.363	-0.003	611.360	95.74	3.546	611.581	0.003	611.584	96.09	10.622	611.799	0.008	611.808	
	SPAN 1-2 (PIER 1 TO EXP BRG)	0.00	3.922	612.166	-0.001	612.165	0.00	-3.729	611.363	-0.003	611.360	0.00	3.546	611.581	0.003	611.584	0.00	10.822	611.799	0.008	611.808
		10.00	3.962	612.069	-0.006	612.063	10.00	-4.001	611.244	0.004	611.249	10.00	3.389	611.467	0.010	611.477	10.00	10.779	611.669	0.015	611.704
20.00		4.000	611.973	-0.003	611.970	20.00	-4.207	611.133	0.011	611.144	20.00	3.299	611.359	0.017	611.376	20.00	10.801	611.585	0.022	611.607	
30.00		4.000	611.876	0.005	611.881	30.00	-4.348	611.027	0.020	611.048	30.00	3.272	611.257	0.025	611.284	30.00	10.888	611.467	0.030	611.518	
40.00		4.000	611.779	0.014	611.793	40.00	-4.423	610.925	0.029	610.958	40.00	3.311	611.162	0.035	611.198	40.00	11.040	611.396	0.039	611.435	
50.00		4.000	611.682	0.020	611.702	50.00	-4.432	610.836	0.028	610.865	50.00	3.415	611.074	0.035	611.109	50.00	11.257	611.311	0.039	611.351	
60.00		4.000	611.585	0.021	611.606	60.00	-4.376	610.751	0.024	610.775	60.00	3.584	610.992	0.031	611.024	60.00	11.538	611.233	0.036	611.270	
70.00		4.000	611.488	0.015	611.504	70.00	-4.254	610.671	0.011	610.683	70.00	3.819	610.916	0.019	610.936	70.00	11.885	611.161	0.025	611.187	
80.00		4.000	611.390	0.007	611.397	80.00	-4.066	610.598	-0.005	610.593	80.00	4.119	610.847	0.003	610.851	80.00	12.296	611.096	0.010	611.106	
83.47		4.000	611.354	0.003	611.357	82.90	-4.000	610.579	-0.010	610.568	83.33	4.234	610.826	-0.001	610.824	83.76	12.468	611.073	0.004	611.077	
SPAN B-1		0.00	17.583	613.276	0.000	613.276	0.00	21.200	613.132	0.044	613.176	0.00	23.098	613.441	0.000	613.441	0.00	23.098	613.441	0.000	613.441
		10.00	17.357	613.118	0.024	613.142	10.00	21.497	612.997	0.054	613.052	10.00	24.370	613.329	0.026	613.355	10.00	24.370	613.329	0.026	613.355
		20.00	17.195	612.966	0.045	612.912	20.00	21.859	612.869	0.064	612.934	20.00	25.575	613.216	0.047	613.264	20.00	25.575	613.216	0.047	613.264
	30.00	17.098	612.821	0.056	612.875	30.00	22.283	612.748	0.060	612.809	30.00	26.713	613.102	0.059	613.162	30.00	26.713	613.102	0.059	613.162	
	40.00	17.066	612.682	0.063	612.745	40.00	22.773	612.633	0.056	612.689	40.00	27.784	612.988	0.064	613.055	40.00	27.784	612.988	0.064	613.055	
	50.00	17.098	612.550	0.059	612.609	50.00	23.327	612.524	0.042	612.566	50.00	28.788	612.873	0.061	612.935	50.00	28.788	612.873	0.061	612.935	
	60.00	17.195	612.424	0.052	612.476	60.00	23.945	612.422	0.027	612.449	60.00	29.725	612.758	0.053	612.811	60.00	29.725	612.758	0.053	612.811	
	70.00	17.357	612.304	0.038	612.342	70.00	24.628	612.329	0.015	612.344	70.00	30.595	612.680	0.036	612.716	70.00	30.595	612.680	0.036	612.716	
	80.00	17.584	612.190	0.025	612.216	80.00	25.374	612.253	0.003	612.256	80.00	31.398	612.628	0.019	612.647	80.00	31.398	6			



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	162
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT I-74	

SPAN	GIRDER G 7					GIRDER G 8					GIRDER G 9					GIRDER G 10				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 1-2 (EXP. BRG. TO PIER 2)	0.00 10.00 15.26	-30.333 -30.609 -30.755	610.176 610.031 609.953	0.004 -0.000 -0.002	610.180 610.031 609.951	0.00 10.00 15.37	-22.958 -23.578 -23.880	610.467 610.339 610.273	0.008 0.005 0.003	610.476 610.345 610.277	0.00 10.00 15.44	-16.093 -16.657 -16.932	610.693 610.568 610.502	0.011 0.009 0.009	610.704 610.578 610.511	0.00 10.00 15.52	-9.229 -9.736 -9.984	610.919 610.796 610.730	0.011 0.009 0.009	610.930 610.806 610.739
SPAN 2-3	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 96.50	-30.755 -31.038 -31.323 -31.609 -31.897 -32.186 -32.476 -32.768 -33.060 -33.354 -33.546	609.953 609.828 609.705 609.585 609.467 609.352 609.234 609.118 609.004 608.894 608.820	-0.002 0.005 0.013 0.019 0.024 0.027 0.021 0.014 0.008 0.001 -0.002	609.951 609.833 609.719 609.605 609.492 609.379 609.255 609.133 609.012 608.894 608.818	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 97.01	-23.880 -24.386 -24.816 -25.168 -25.443 -25.642 -25.763 -25.807 -25.774 -25.664 -25.541	610.273 610.143 610.019 609.900 609.787 609.681 609.581 609.487 609.400 609.320 609.270	0.003 0.012 0.021 0.028 0.033 0.036 0.030 0.023 0.016 0.009 0.004	610.277 610.156 610.040 609.928 609.821 609.718 609.611 609.510 609.416 609.329 609.274	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 97.54	-16.932 -17.380 -17.751 -18.046 -18.265 -18.406 -18.471 -18.460 -18.371 -18.206 -18.031	610.502 610.380 610.265 610.155 610.050 609.950 609.856 609.768 609.685 609.607 609.553	0.009 0.018 0.028 0.034 0.039 0.043 0.036 0.029 0.022 0.015 0.010	610.511 610.399 610.293 610.189 610.090 609.993 609.893 609.797 609.707 609.623 609.563	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.08	-9.984 -10.374 -10.688 -10.927 -11.088 -11.174 -11.183 -11.116 -10.973 -10.753 -10.520	610.730 610.611 610.498 610.390 610.288 610.191 610.099 610.013 609.932 609.856 609.800	0.009 0.019 0.029 0.036 0.041 0.045 0.038 0.031 0.023 0.016 0.010	610.739 610.631 610.527 610.427 610.329 610.236 610.137 610.044 609.955 609.873 609.810
SPAN 3-4	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 96.30	-33.546 -33.841 -34.138 -34.435 -34.734 -35.034 -35.335 -35.637 -35.940 -36.244 -36.437	608.820 608.735 608.667 608.603 608.543 608.488 608.429 608.370 608.314 608.262 608.231	-0.002 0.004 0.012 0.019 0.026 0.030 0.025 0.020 0.012 0.002 -0.003	608.818 608.740 608.679 608.623 608.570 608.519 608.455 608.390 608.326 608.264 608.228	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 96.88	-25.541 -26.175 -26.732 -27.212 -27.614 -27.940 -28.189 -28.360 -28.454 -28.470 -28.437	609.270 609.157 609.057 608.967 608.886 608.813 608.745 608.682 608.626 608.576 608.546	0.004 0.013 0.021 0.029 0.037 0.042 0.037 0.031 0.022 0.011 0.004	609.274 609.170 609.079 608.997 608.924 608.856 608.782 608.714 608.648 608.588 608.551	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 97.44	-18.031 -18.604 -19.100 -19.520 -19.863 -20.130 -20.320 -20.433 -20.469 -20.429 -20.348	609.553 609.455 609.364 609.278 609.198 609.122 609.053 608.988 608.930 608.876 608.841	0.010 0.019 0.028 0.037 0.045 0.051 0.045 0.040 0.030 0.019 0.011	609.563 609.475 609.393 609.315 609.243 609.174 609.099 609.029 608.961 608.896 608.852	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.02	-10.520 -11.033 -11.470 -11.831 -12.115 -12.324 -12.455 -12.511 -12.490 -12.393 -12.260	609.800 609.705 609.616 609.532 609.454 609.381 609.314 609.251 609.195 609.143 609.107	0.010 0.020 0.030 0.039 0.047 0.054 0.048 0.042 0.032 0.021 0.011	609.810 609.725 609.646 609.571 609.501 609.435 609.362 609.294 609.228 609.165 609.118
SPAN 4-5 (PIER 4 TO EXP. BRG)	0.00 10.00 15.20	-36.437 -36.742 -36.901	608.231 608.180 608.148	-0.003 -0.001 -0.000	608.228 608.178 608.148	0.00 10.00 15.29	-28.437 -28.321 -28.229	608.546 608.504 608.482	0.004 0.005 0.005	608.551 608.510 608.488	0.00 10.00 15.39	-20.348 -20.173 -20.046	608.841 608.797 608.775	0.011 0.010 0.009	608.852 608.807 608.785	0.00 10.00 15.49	-12.260 -12.025 -11.864	609.107 609.065 609.044	0.011 0.009 0.008	609.118 609.075 609.053
SPAN 1-2 (EXP. BRG. TO PIER 2)	GIRDER G 11					GIRDER G 12														
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 1-2 (EXP. BRG. TO PIER 2)	0.00 10.00 15.60	-2.364 -2.816 -3.036	611.145 611.024 610.959	0.007 0.005 0.003	611.152 611.029 610.963	0.00 10.00 15.66	4.000 4.000 4.000	611.358 611.249 611.190	0.003 -0.000 -0.002	611.357 611.249 611.188	0.00 10.00 15.66	4.000 4.000 4.000	611.358 611.249 611.190	0.003 -0.000 -0.002	611.357 611.249 611.188	0.00 10.00 15.66	4.000 4.000 4.000	611.358 611.249 611.190	0.003 -0.000 -0.002	611.357 611.249 611.188
SPAN 2-3	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.62	-3.036 -3.369 -3.627 -3.809 -3.914 -3.945 -3.899 -3.777 -3.580 -3.306 -3.010	610.959 610.842 610.732 610.626 610.526 610.431 610.341 610.257 610.179 610.105 610.047	0.003 0.013 0.023 0.031 0.036 0.040 0.033 0.026 0.018 0.010 0.004	610.963 610.856 610.755 610.657 610.562 610.471 610.375 610.283 610.197 610.116 610.051	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.16	4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000	611.190 611.086 610.984 610.885 610.789 610.696 610.605 610.517 610.432 610.350 610.277	-0.002 0.007 0.016 0.024 0.029 0.034 0.026 0.018 0.011 0.003 -0.002	611.188 611.093 611.001 610.910 610.819 610.730 610.632 610.536 610.444 610.354 610.275	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.16	4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000	611.190 611.086 610.984 610.885 610.789 610.696 610.605 610.517 610.432 610.350 610.277	-0.002 0.007 0.016 0.024 0.029 0.034 0.026 0.018 0.011 0.003 -0.002	611.188 611.093 611.001 610.910 610.819 610.730 610.632 610.536 610.444 610.354 610.275					
SPAN 3-4	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.59	-3.010 -3.464 -3.841 -4.144 -4.370 -4.520 -4.595 -4.594 -4.594 -4.517 -4.364 -4.171	610.047 609.954 609.868 609.786 609.710 609.640 609.574 609.514 609.460 609.410 609.373	0.004 0.014 0.024 0.034 0.042 0.049 0.043 0.037 0.027 0.015 0.004	610.051 609.969 609.892 609.820 609.753 609.689 609.618 609.552 609.487 609.426 609.378	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.17	4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000	610.277 610.201 610.127 610.056 609.988 609.922 609.860 609.800 609.743 609.689 609.642	-0.002 0.007 0.016 0.026 0.035 0.043 0.036 0.030 0.020 0.007 -0.003	610.275 610.208 610.144 610.082 610.023 609.966 609.897 609.830 609.763 609.697 609.639	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.17	4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000	610.277 610.201 610.127 610.056 609.988 609.922 609.860 609.800 609.743 609.689 609.642	-0.002 0.007 0.016 0.026 0.035 0.043 0.036 0.030 0.020 0.007 -0.003	610.275 610.208 610.144 610.082 610.023 609.966 609.897 609.830 609.763 609.697 609.639					
SPAN 4-5 (PIER 4 TO EXP. BRG)	0.00 10.00 15.59	-4.171 -3.879 -3.682	609.373 609.334 609.313	0.004 0.003 0.003	609.378 609.338 609.317	0.00 10.00 15.67	4.000 4.000 4.000	609.642 609.593 609.566	-0.003 -0.003 -0.003	609.639 609.590 609.562	0.00 10.00 15.67	4.000 4.000 4.000	609.642 609.593 609.566	-0.003 -0.003 -0.003	609.639 609.590 609.562					

DECK ELEVATIONS-UNIT "A"

F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20

SCALE: AS NOTED DATE:

NOTE: FOR NOTES SEE DWG. NO. S-124

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. KENNEDY  
DRAWN BY O. HAMILTON  
CHECKED R. Kennedy  
IN CHARGE E. S. MARTINS  
APPROVED W.G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 74	81-IHV8	ROCK ISLAND	298	163
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

SPAN	GIRDER G 207					GIRDER G 208					GIRDER G 209					GIRDER G 210				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 1-2 (EXP. BRG. TO PIER 2)	0.00 10.00 14.91	-4.000 -4.000 -4.000	610.579 610.506 610.472	-0.011 -0.007 -0.003	610.568 610.499 610.469	0.00 10.00 14.97	2.130 1.874 1.771	610.763 610.683 610.645	-0.004 0.000 0.003	610.759 610.683 610.649	0.00 10.00 15.03	8.010 7.835 7.771	610.939 610.862 610.826	0.002 0.007 0.010	610.941 610.859 610.836	0.00 10.00 15.09	13.890 13.791 13.766	611.116 611.041 611.005	0.006 0.010 0.013	611.122 611.051 611.018
SPAN 2-3	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 97.82	-4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000	610.472 610.407 610.345 610.289 610.236 610.188 610.140 610.092 610.043 609.995 609.958	-0.003 0.006 0.017 0.027 0.032 0.032 0.027 0.019 0.011 0.008 0.009	610.469 610.413 610.362 610.316 610.268 610.220 610.167 610.111 610.054 610.003 609.967	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.22	1.770 1.610 1.515 1.485 1.420 1.357 1.288 1.219 1.146 1.079 1.025	610.645 610.575 610.511 610.453 610.402 610.357 610.314 610.273 610.234 610.197 610.168	0.003 0.012 0.024 0.033 0.038 0.037 0.030 0.020 0.010 0.003 0.002	610.648 610.587 610.555 610.487 610.440 610.394 610.345 610.294 610.244 610.200 610.170	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.64	7.770 7.688 7.670 7.718 7.831 8.009 8.251 8.559 8.932 9.370 9.801	610.825 610.757 610.696 610.641 610.592 610.549 610.509 610.470 610.434 610.399 610.371	0.010 0.019 0.030 0.038 0.042 0.041 0.033 0.022 0.010 0.001 -0.001	610.835 610.777 610.726 610.680 610.635 610.590 610.543 610.493 610.444 610.401 610.370	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.07	13.765 13.750 13.820 13.845 14.135 14.390 14.709 15.093 15.547 16.056 16.577	611.005 610.940 610.891 610.828 610.782 610.742 610.704 610.668 610.634 610.602 610.574	0.013 0.022 0.035 0.042 0.046 0.043 0.036 0.024 0.011 0.001 -0.002	611.018 610.962 610.914 610.871 610.828 610.786 610.740 610.695 610.642 610.604 610.572
SPAN 3-4	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 97.83	-4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000	609.958 609.909 609.861 609.813 609.765 609.717 609.669 609.621 609.573 609.524 609.487	0.009 -0.001 0.002 0.004 0.006 0.006 0.004 0.002 0.005 0.012	609.967 609.910 609.860 609.815 609.769 609.723 609.675 609.625 609.575 609.529 609.499	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.29	3.025 2.812 2.664 2.529 2.563 2.610 2.723 2.902 3.145 3.454 3.760	610.168 610.113 610.061 610.010 609.962 609.916 609.871 609.828 609.788 609.749 609.719	0.002 -0.002 -0.000 0.004 0.009 0.011 0.009 0.006 0.000 -0.001 0.003	610.170 610.111 610.060 610.015 609.971 609.927 609.881 609.834 609.789 609.748 609.722	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 98.76	9.801 9.670 9.604 9.602 9.666 9.795 9.989 10.247 10.571 10.960 11.354	610.371 610.320 610.270 610.222 610.175 610.132 610.091 610.051 610.013 609.977 609.947	-0.001 -0.005 -0.003 0.002 0.007 0.009 0.007 0.002 -0.003 -0.005 -0.002	610.370 610.314 610.267 610.224 610.183 610.142 610.098 610.053 610.010 609.971 609.945	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.24	16.577 16.528 16.542 16.622 16.766 16.975 17.249 17.587 17.990 18.458 18.947	610.574 610.525 610.478 610.433 610.390 610.349 610.310 610.272 610.237 610.204 610.175	-0.002 -0.005 -0.002 0.003 0.011 0.009 0.004 -0.000 -0.004 -0.001	610.572 610.520 610.476 610.437 610.399 610.360 610.320 610.277 610.236 610.200 610.173
SPAN 4-5 (PIER 4 TO EXP. BRG.)	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 83.90	-4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000 -4.000	609.487 609.439 609.391 609.342 609.294 609.246 609.198 609.150 609.102 609.083	0.012 0.015 0.024 0.034 0.041 0.043 0.046 0.028 0.012 0.005	609.499 609.454 609.415 609.376 609.335 609.289 609.237 609.178 609.114 609.088	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 83.33	3.760 3.581 3.467 3.418 3.435 3.516 3.664 3.876 4.154 4.261	609.719 609.666 609.615 609.565 609.518 609.472 609.429 609.387 609.348 609.335	0.003 0.010 0.023 0.035 0.044 0.046 0.039 0.026 0.006 0.000	609.722 609.676 609.638 609.601 609.562 609.519 609.469 609.414 609.355 609.335	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 82.78	11.354 11.259 11.227 11.264 11.364 11.529 11.759 12.054 12.414 12.525	609.947 609.896 609.848 609.801 609.757 609.714 609.673 609.634 609.598 609.588	-0.002 0.005 0.018 0.031 0.040 0.042 0.036 0.023 0.005 0.000	609.945 609.902 609.866 609.833 609.797 609.756 609.710 609.658 609.603 609.588	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 82.23	18.947 18.938 18.994 19.114 19.298 19.547 19.861 20.239 20.682 20.790	610.175 610.127 610.081 610.037 609.996 609.956 609.913 609.882 609.848 609.840	-0.002 0.005 0.017 0.030 0.039 0.041 0.035 0.022 0.005 0.001	610.173 610.132 610.099 610.068 610.035 609.997 609.953 609.905 609.853 609.841
GIRDER G 211																				
GIRDER G 212																				
GIRDER G 213																				
GIRDER G 214																				
SPAN 1-2 (EXP. BRG. TO PIER 2)	0.00 10.00 15.14	19.521 19.662 19.760	611.285 611.217 611.185	0.006 0.009 0.013	611.291 611.226 611.198	0.00 10.00 15.20	25.656 25.705 25.755	611.499 611.427 611.392	0.002 0.006 0.010	611.501 611.433 611.402	0.00 10.00 15.25	31.536 31.659 31.750	611.782 611.703 611.663	-0.004 0.000 0.004	611.778 611.703 611.667	0.00 10.00 15.34	37.167 37.689 37.969	612.054 611.982 611.945	-0.011 -0.007 -0.003	612.043 611.975 611.942
SPAN 2-3	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.51	19.760 19.932 19.969 20.171 20.437 20.767 21.163 21.622 22.146 22.734 23.353	611.185 611.122 611.066 611.016 610.972 610.934 610.899 610.865 610.834 610.804 610.778	0.013 0.022 0.034 0.043 0.047 0.045 0.038 0.026 0.012 0.002 -0.002	611.198 611.145 611.100 611.059 611.020 610.980 610.937 610.891 610.846 610.806 610.776	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.95	25.755 25.904 26.117 26.394 26.736 27.142 27.612 28.146 28.745 29.407 30.129	611.391 611.330 611.274 611.224 611.179 611.138 611.098 611.063 611.032 611.004 610.977	0.010 0.020 0.033 0.043 0.048 0.047 0.039 0.027 0.013 0.002 -0.002	611.401 611.351 611.308 611.267 611.227 611.185 611.138 611.090 611.046 611.007 610.975	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 100.39	31.749 31.974 32.263 32.615 33.032 33.513 34.057 34.665 35.337 36.073 36.872 36.905	611.663 611.593 611.528 611.465 611.408 611.355 611.302 611.260 611.231 611.203 611.177 611.176	0.004 0.016 0.030 0.041 0.047 0.047 0.041 0.030 0.017 0.006 0.001 0.002	611.667 611.609 611.558 611.507 611.456 611.403 611.344 611.290 611.248 611.210 611.179 611.178	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 100.84	37.969 38.498 39.030 39.565 40.103 40.643 41.186 41.732 42.281 42.832 43.385 43.432	611.945 611.877 611.807 611.736 611.667 611.599 611.530 611.475 611.440 611.406 611.371 611.368	-0.004 0.009 0.023 0.035 0.042 0.042 0.037 0.028 0.017 0.009 0.008 0.008	611.941 611.836 611.830 611.771 611.709 611.641 611.567 611.503 611.457 611.415 611.379 611.376
SPAN 3-4	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.72	23.353 23.384 23.480 23.639 23.863 24.152 24.505 24.922 25.403 25.949 26.541	610.778 610.731 610.687 610.644 610.604 610.565 610.528 610.492 610.458 610.426 610.397	-0.002 -0.004 -0.001 0.004 0.010 0.013 0.011 0.006 0.000 -0.003 -0.002	610.776 610.727 610.685 610.649 610.615 610.578 610.540 610.499 610.459 610.423 610.395	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 100.21	30.129 30.240 30.415 30.654 30.957 31.324 31.756 32.251 32.810 33.433 34.120 34.135	610.977 610.932 610.888 610.847 610.807 610.769 610.733 610.699 610.667 610.637 610.608 610.608	-0.001 -0.004 -0.000 0.006 0.013 0.016 0.015 0.009 0.002 -0.002 -0.001 -0.001	610.976 610.927 610.889 610.853 610.820 610.786 610.748 610.708 610.669 610.635 610.607 610.607	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 100.71	36.905 37.095 37.349 37.666 38.048 38.493 39.002 39.574 40.210 40.909 41.672 41.729	611.176 611.132 611.089 611.049 611.010 610.973 610.938 610.905 610.875 610.847 610.821 610.819	0.002 -0.001 -0.003 0.010 0.017 0.021 0.019 0.014 0.007 0.002 0.002 0.003	611.178 611.130 611.092 611.060 611.028 610.994 610.958 610.920 610.883 610.850 610.823 610.822	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 101.22	43.432 43.986 44.543 45.102 45.664 46.228 46.795 47.364 47.935 48.509 49.086 49.156	611.368 611.333 611.298 611.263 611.229 611.199 611.159 611.125 611.093 611.061 611.030 611.026	0.008 0.000 -0.001 0.003 0.008 0.010 0.010 0.007 0.004 0.003 0.009 0.011	611.376 611.333 611.297 611.266 611.229 611.199 611.169 611.132 611.097 611.064 611.039 611.037
SPAN 4-5 (PIER 4 TO EXP. BRG.)	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 81.70	26.541 26.619 26.760 26.966 27.237 27.571 27.970 28.433 28.960 29.056	610.397 610.352 610.308 610.267 610.227 610.189 610.152 610.118 610.085 610.079	-0.002 0.004 0.016 0.028 0.036 0.038 0.033 0.020 0.003 0.000	610.395 610.356 610.325 610.295 610.264 610.224 610.185 610.138 610.088 610.079	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 81.17	34.135 34.300 34.529 34.823 35.180 35.601 36.085 36.634 37.246 37.322	610.608 610.565 610.524 610.484 610.447 610.411 610.376 610.344 610.313 610.310	-0.001 0.004 0.014 0.025 0.033 0.033 0.027 0.013 -0.003 -0.006	610.607 610.568 610.538 610.510 610.480 610.444 610.404 610.358 610.310 610.310	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 80.64	41.729 41.983 42.301 42.682 43.127 43.634 44.204 44.843 45.542 45.589	610.819 610.778 610.739 610.702 610.666 610.633 610.601 610.571 610.542 610.541	0.003 0.006 0.015 0.025 0.031 0.030 0.022 						

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	278	167
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-129

NORTHBOUND ROADWAY

	GIRDER G14					GIRDER G15					GIRDER G16					GIRDER G17				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 4-5	0.00	-36.902	608.149	0.001	608.150	0.00	-32.276	608.326	0.007	608.334	0.00	-24.457	608.627	0.017	608.644	0.00	-16.638	608.887	0.020	608.907
	10.00	-37.210	608.089	0.016	608.105	10.00	-32.720	608.261	0.024	608.286	10.00	-24.901	608.561	0.037	608.599	10.00	-17.082	608.823	0.040	608.864
	20.00	-37.519	608.029	0.028	608.057	20.00	-33.087	608.199	0.038	608.237	20.00	-25.268	608.498	0.054	608.552	20.00	-17.450	608.763	0.055	608.819
	30.00	-37.829	607.969	0.035	608.005	30.00	-33.376	608.139	0.046	608.186	30.00	-25.559	608.438	0.064	608.503	30.00	-17.742	608.704	0.064	608.769
	40.00	-38.140	607.909	0.037	607.946	40.00	-33.597	608.083	0.048	608.131	40.00	-25.772	608.381	0.065	608.447	40.00	-17.956	608.649	0.065	608.715
	50.00	-38.451	607.850	0.032	607.882	50.00	-33.721	608.030	0.043	608.073	50.00	-25.908	608.327	0.059	608.387	50.00	-18.094	608.596	0.059	608.655
	60.00	-38.764	607.790	0.023	607.813	60.00	-33.778	607.979	0.032	608.012	60.00	-25.967	608.276	0.047	608.324	60.00	-18.156	608.545	0.047	608.592
	70.00	-39.077	607.730	0.012	607.742	70.00	-33.756	607.932	0.020	607.952	70.00	-25.948	608.228	0.031	608.260	70.00	-18.141	608.497	0.032	608.529
	80.00	-39.392	607.670	0.001	607.672	80.00	-33.657	607.887	0.008	607.896	80.00	-25.853	608.183	0.018	608.201	80.00	-18.049	608.451	0.019	608.471
	88.26	-39.652	607.621	-0.003	607.617	87.40	-33.534	607.856	0.004	607.860	86.45	-25.751	608.155	0.012	608.168	85.49	-17.965	608.427	0.015	608.443
SPAN 5-6	0.00	-39.652	607.620	-0.003	607.616	0.00	-33.534	607.856	0.004	607.860	0.00	-25.751	608.155	0.012	608.168	0.00	-17.965	608.427	0.015	608.443
	10.00	-39.968	607.561	0.002	607.563	10.00	-33.885	607.794	-0.000	607.793	10.00	-26.113	608.093	0.007	608.100	10.00	-18.339	608.366	0.011	608.378
	20.00	-40.285	607.501	0.005	607.505	20.00	-34.157	607.736	-0.000	607.735	20.00	-26.398	608.034	0.008	608.042	20.00	-18.636	608.308	0.013	608.321
	30.00	-40.603	607.441	0.004	607.446	30.00	-34.353	607.680	0.002	607.683	30.00	-26.606	607.977	0.011	607.989	30.00	-18.857	608.252	0.018	608.270
	40.00	-40.921	607.381	0.004	607.386	40.00	-34.628	607.628	0.004	607.632	40.00	-26.737	607.924	0.014	607.938	40.00	-19.001	608.198	0.021	608.220
	50.00	-41.241	607.322	0.004	607.326	50.00	-34.511	607.578	0.004	607.582	50.00	-26.790	607.873	0.014	607.888	50.00	-19.068	608.147	0.022	608.169
	60.00	-41.561	607.262	0.005	607.268	60.00	-34.473	607.531	0.001	607.533	60.00	-26.767	607.825	0.012	607.838	60.00	-19.058	608.099	0.019	608.118
	70.00	-41.881	607.202	0.004	607.207	70.00	-34.358	607.487	-0.000	607.487	70.00	-26.666	607.780	0.009	607.790	70.00	-18.971	608.053	0.015	608.069
	80.00	-42.203	607.143	-0.000	607.142	80.00	-34.358	607.487	-0.000	607.487	80.00	-26.488	607.738	0.009	607.747	80.00	-18.808	608.010	0.013	608.023
	84.42	-42.345	607.116	-0.004	607.112	86.01	-34.012	607.422	0.004	607.427	88.01	-26.290	607.706	0.013	607.719	90.00	-18.568	607.969	0.016	607.985
SPAN 6-7	0.00	-42.345	607.117	-0.004	607.112	0.00	-34.012	607.423	0.004	607.427	0.00	-26.290	607.706	0.013	607.719	0.00	-18.568	607.969	0.016	607.986
	10.00	-42.667	607.057	0.001	607.058	10.00	-34.700	607.349	0.010	607.360	10.00	-26.910	607.635	0.018	607.654	10.00	-19.120	607.902	0.021	607.923
	20.00	-42.990	606.997	0.011	607.008	20.00	-35.310	607.278	0.020	607.299	20.00	-27.452	607.566	0.028	607.595	20.00	-19.596	607.838	0.030	607.868
	30.00	-43.314	606.937	0.021	606.958	30.00	-35.844	607.211	0.030	607.241	30.00	-27.918	607.500	0.038	607.539	30.00	-19.995	607.776	0.039	607.815
	40.00	-43.639	606.877	0.029	606.906	40.00	-36.299	607.146	0.037	607.183	40.00	-28.307	607.438	0.044	607.482	40.00	-20.318	607.717	0.044	607.762
	50.00	-43.964	606.817	0.032	606.850	50.00	-36.677	607.083	0.038	607.122	50.00	-28.618	607.378	0.044	607.422	50.00	-20.563	607.660	0.044	607.705
	60.00	-44.289	606.757	0.031	606.789	60.00	-36.978	607.024	0.034	607.058	60.00	-28.852	607.320	0.037	607.358	60.00	-20.732	607.606	0.038	607.644
	70.00	-44.616	606.697	0.026	606.724	70.00	-37.200	606.968	0.025	606.993	70.00	-29.009	607.266	0.026	607.292	70.00	-20.824	607.554	0.036	607.580
	80.00	-44.943	606.637	0.020	606.658	80.00	-37.345	606.914	0.014	606.929	80.00	-29.089	607.214	0.012	607.226	80.00	-20.840	607.505	0.032	607.516
	90.00	-45.270	606.577	0.016	606.594	90.00	-37.412	606.863	0.006	606.869	90.00	-29.091	607.166	0.000	607.165	90.00	-20.778	607.458	-0.001	607.456
91.59	-45.322	606.567	0.016	606.584	92.17	-37.412	606.863	0.006	606.869	92.72	-29.079	607.153	-0.002	607.150	93.28	-20.741	607.443	-0.004	607.438	
SPAN 7-8	0.00	-45.322	606.567	0.016	606.583	0.00	-37.412	606.852	0.005	606.857	0.00	-29.079	607.153	-0.002	607.150	0.00	-20.741	607.443	-0.004	607.438
	10.00	-45.650	606.507	0.013	606.521	10.00	-37.388	606.805	0.003	606.808	10.00	-28.982	607.107	-0.004	607.103	10.00	-20.577	607.400	-0.006	607.393
	14.24	-45.790	606.482	0.012	606.495	14.33	-37.353	606.785	0.004	606.789	14.42	-28.915	607.088	-0.003	607.084	14.52	-20.478	607.381	-0.005	607.375
SPAN 4-5	0.00	-8.819	609.144	0.015	609.159	0.00	-1.000	609.401	0.006	609.408	0.00	4.000	609.566	0.001	609.567	0.00	4.000	609.566	0.001	609.567
	10.00	-9.263	609.081	0.034	609.115	10.00	-1.444	609.339	0.020	609.359	10.00	4.000	609.518	0.013	609.532	10.00	4.000	609.518	0.013	609.532
	20.00	-9.632	609.021	0.048	609.070	20.00	-1.814	609.279	0.030	609.310	20.00	4.000	609.470	0.023	609.493	20.00	4.000	609.470	0.023	609.493
	30.00	-9.924	608.963	0.057	608.920	30.00	-2.107	609.221	0.036	609.257	30.00	4.000	609.422	0.027	609.450	30.00	4.000	609.422	0.027	609.450
	40.00	-10.141	608.907	0.057	608.965	40.00	-2.325	609.166	0.036	609.202	40.00	4.000	609.375	0.026	609.401	40.00	4.000	609.375	0.026	609.401
	50.00	-10.281	608.854	0.051	608.906	50.00	-2.467	609.113	0.030	609.143	50.00	4.000	609.327	0.020	609.348	50.00	4.000	609.327	0.020	609.348
	60.00	-10.345	608.804	0.039	608.843	60.00	-2.534	609.063	0.020	609.093	60.00	4.000	609.279	0.011	609.291	60.00	4.000	609.279	0.011	609.291
	70.00	-10.332	608.756	0.025	608.782	70.00	-2.524	609.015	0.010	609.026	70.00	4.000	609.231	0.002	609.233	70.00	4.000	609.231	0.002	609.233
	80.00	-10.244	608.710	0.015	608.725	80.00	-2.439	608.970	0.004	608.974	80.00	4.000	609.183	-0.003	609.180	80.00	4.000	609.183	-0.003	609.180
	84.54	-10.179	608.691	0.012	608.703	83.58	-2.390	608.954	0.004	608.958	82.75	4.000	609.170	-0.003	609.166	82.75	4.000	609.170	-0.003	609.166
SPAN 5-6	0.00	-10.179	608.691	0.012	608.703	0.00	-2.390	608.954	0.004	608.958	0.00	4.000	609.170	-0.003	609.166	0.00	4.000	609.170	-0.003	609.166
	10.00	-10.564	608.629	0.009	608.639	10.00	-2.787	608.893	0.008	608.901	10.00	4.000	609.122	-0.000	609.122	10.00	4.000	609.122	-0.000	609.122
	20.00	-10.873	608.571	0.013	608.584	20.00	-3.107	608.834	0.017	608.852	20.00	4.000	609.074	0.007	609.081	20.00	4.000	609.074	0.007	609.081
	30.00	-11.106	608.515	0.018	608.534	30.00	-3.252	608.778	0.028	608.806	30.00	4.000	609.026	0.015	609.042	30.00	4.000	609.026	0.015	609.042
	40.00	-11.262	608.461	0.022	608.484	40.00	-3.522	608.724	0.035	608.759	40.00	4.000	608.979	0.021	609.000	40.00	4.000	608.979	0.021	609.000
	50.00	-11.342	608.410	0.023	608.434	50.00	-3.615	608.673	0.036	608.710	50.00	4.000	608.931	0.022	608.953	50.00	4.000	608.931	0.022	608.953
	60.00	-11.346	608.362	0.020	608.382	60.00	-3.633	608.624	0.032	608.657	60.00	4.000</								

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	278	168
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-130

**NORTHBOUND ROADWAY**

	GIRDER G22					GIRDER G23					GIRDER G24					GIRDER G25				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8	0.00	-45.790	606.482	0.012	606.495	0.00	-39.328	606.714	0.006	606.720	0.00	-31.912	606.981	-0.001	606.980	0.00	-24.497	607.247	-0.004	607.242
	10.00	-46.118	606.422	0.025	606.448	10.00	-39.714	606.652	0.021	606.673	10.00	-32.298	606.918	0.015	606.933	10.00	-24.883	607.184	0.012	607.196
	20.00	-46.447	606.362	0.034	606.397	20.00	-40.021	606.593	0.031	606.624	20.00	-32.607	606.859	0.027	606.885	20.00	-25.192	607.124	0.024	607.149
	30.00	-46.777	606.303	0.037	606.340	30.00	-40.251	606.536	0.035	606.572	30.00	-32.838	606.802	0.031	606.833	30.00	-25.424	607.067	0.029	607.097
	40.00	-47.107	606.243	0.033	606.276	40.00	-40.403	606.482	0.030	606.513	40.00	-32.991	606.748	0.027	606.775	40.00	-25.579	607.013	0.026	607.039
	50.00	-47.437	606.183	0.022	606.205	50.00	-40.477	606.431	0.018	606.450	50.00	-33.067	606.696	0.016	606.712	50.00	-25.657	606.961	0.014	606.976
	60.00	-47.768	606.123	0.006	606.130	60.00	-40.473	606.383	0.001	606.384	60.00	-33.065	606.648	-0.001	606.646	60.00	-25.657	606.912	-0.002	606.910
	62.91	-47.864	606.105	0.002	606.107	63.22	-40.455	606.368	-0.005	606.363	63.59	-33.046	606.631	-0.008	606.623	63.95	-25.636	606.894	-0.009	606.884

	GIRDER G26					GIRDER G27					GIRDER G28					GIRDER G29				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8	0.00	-17.081	607.493	-0.005	607.487	0.00	-9.665	607.737	-0.001	607.735	0.00	-2.250	607.981	0.005	607.986	0.00	4.000	608.187	0.010	608.197
	10.00	-17.467	607.431	0.011	607.443	10.00	-10.052	607.676	0.016	607.692	10.00	-2.636	607.920	0.023	607.943	10.00	4.000	608.139	0.028	608.167
	20.00	-17.777	607.373	0.025	607.398	20.00	-10.322	607.617	0.030	607.648	20.00	-2.947	607.862	0.036	607.898	20.00	4.000	608.091	0.042	608.134
	30.00	-18.010	607.316	0.031	607.347	30.00	-10.596	607.561	0.036	607.598	30.00	-3.183	607.806	0.041	607.848	30.00	4.000	608.043	0.050	608.093
	40.00	-18.167	607.262	0.028	607.291	40.00	-10.754	607.507	0.034	607.542	40.00	-3.342	607.753	0.038	607.791	40.00	4.000	607.995	0.049	608.045
	50.00	-18.246	607.211	0.017	607.228	50.00	-10.836	607.456	0.023	607.480	50.00	-3.426	607.702	0.027	607.729	50.00	4.000	607.947	0.042	607.989
	60.00	-18.249	607.162	0.000	607.163	60.00	-10.842	607.408	0.006	607.414	60.00	-3.434	607.653	0.009	607.663	60.00	4.000	607.900	0.028	607.928
	64.32	-18.227	607.142	-0.007	607.134	64.68	-10.818	607.386	-0.002	607.384	65.05	-3.409	607.630	-0.000	607.629	65.38	4.000	607.873	0.020	607.893

**SOUTHBOUND ROADWAY**

	GIRDER G215					GIRDER G216					GIRDER G217					GIRDER G218				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 4-5	0.00	-4.000	609.083	0.005	609.088	0.00	4.266	609.335	0.000	609.336	0.00	11.297	609.550	-0.000	609.550	0.00	18.627	609.774	0.001	609.776
	10.00	-4.000	609.034	0.002	609.037	10.00	3.676	609.270	-0.000	609.269	10.00	10.887	609.490	-0.000	609.490	10.00	18.211	609.714	-0.002	609.717
	15.84	-4.000	609.006	0.003	609.009	15.97	3.354	609.232	0.000	609.232	15.92	10.674	609.456	0.001	609.457	15.92	17.994	609.680	0.004	609.685
SPAN 5-6	0.00	-4.000	609.006	0.003	609.009	0.00	3.354	609.232	0.000	609.232	0.00	10.674	609.456	0.001	609.457	0.00	17.994	609.680	0.004	609.685
	10.00	-4.000	608.958	0.008	608.966	10.00	3.053	609.175	0.007	609.182	10.00	10.367	609.399	0.008	609.408	10.00	17.681	609.623	0.013	609.636
	20.00	-4.000	608.910	0.016	608.926	20.00	2.817	609.120	0.017	609.137	20.00	10.124	609.344	0.019	609.364	20.00	17.432	609.568	0.024	609.593
	30.00	-4.000	608.862	0.023	608.886	30.00	2.647	609.067	0.026	609.093	30.00	9.947	609.291	0.029	609.321	30.00	17.248	609.515	0.034	609.550
	40.00	-4.000	608.814	0.028	608.842	40.00	2.542	609.016	0.032	609.048	40.00	9.835	609.240	0.035	609.276	40.00	17.128	609.464	0.041	609.505
	50.00	-4.000	608.766	0.028	608.795	50.00	2.502	608.966	0.033	609.000	50.00	9.787	609.191	0.036	609.227	50.00	17.073	609.415	0.041	609.457
	60.00	-4.000	608.718	0.025	608.743	60.00	2.528	608.919	0.028	608.948	60.00	9.805	609.144	0.032	609.176	60.00	17.083	609.368	0.037	609.405
	70.00	-4.000	608.669	0.019	608.689	70.00	2.619	608.874	0.020	608.895	70.00	9.888	609.098	0.023	609.122	70.00	17.158	609.323	0.027	609.350
	80.00	-4.000	608.621	0.012	608.634	80.00	2.775	608.831	0.011	608.842	80.00	10.036	609.055	0.013	609.068	80.00	17.297	609.279	0.016	609.295
	90.00	-4.000	608.573	0.008	608.582	90.00	2.997	608.790	0.004	608.794	90.00	10.248	609.014	0.004	609.019	90.00	17.501	609.238	0.006	609.244
98.68	-4.000	608.531	0.009	608.540	100.00	3.284	608.750	0.001	608.752	100.00	10.526	608.974	0.000	608.975	100.00	17.770	609.199	0.000	609.199	
SPAN 6-7	0.00	-4.000	608.531	0.009	608.540	0.00	3.287	608.750	0.002	608.752	0.00	10.575	608.969	-0.000	608.968	0.00	17.863	609.187	-0.000	609.187
	10.00	-4.000	608.483	0.011	608.494	10.00	3.001	608.694	0.005	608.699	10.00	10.288	608.912	0.001	608.914	10.00	17.576	609.131	0.001	609.133
	20.00	-4.000	608.435	0.016	608.452	20.00	2.779	608.639	0.012	608.652	20.00	10.066	608.858	0.008	608.867	20.00	17.353	609.077	0.008	609.085
	30.00	-4.000	608.387	0.024	608.412	30.00	2.623	608.586	0.022	608.609	30.00	9.909	608.806	0.018	608.824	30.00	17.196	609.025	0.017	609.043
	40.00	-4.000	608.339	0.032	608.371	40.00	2.532	608.536	0.031	608.567	40.00	9.817	608.755	0.027	608.783	40.00	17.103	608.975	0.026	609.001
	50.00	-4.000	608.291	0.035	608.326	50.00	2.507	608.487	0.035	608.523	50.00	9.790	608.707	0.031	608.739	50.00	17.074	608.926	0.031	609.026
	60.00	-4.000	608.243	0.034	608.277	60.00	2.547	608.440	0.034	608.475	60.00	9.829	608.660	0.031	608.691	60.00	17.111	608.880	0.031	608.911
	70.00	-4.000	608.194	0.029	608.224	70.00	2.652	608.396	0.028	608.424	70.00	9.932	608.616	0.025	608.641	70.00	17.212	608.836	0.025	608.861
	80.00	-4.000	608.146	0.021	608.168	80.00	2.822	608.353	0.018	608.371	80.00	10.100	608.573	0.015	608.588	80.00	17.378	608.793	0.016	608.809
	90.00	-4.000	608.098	0.013	608.112	90.00	3.058	608.312	0.008	608.321	90.00	10.333	608.532	0.005	608.538	90.00	17.608	608.753	0.006	608.759
99.20	-4.000	608.054	0.009	608.063	99.66	3.348	608.274	0.002	608.277	100.00	10.631	608.494	-0.001	608.493	100.00	17.903	608.714	-0.000	608.714	
SPAN 7-8	0.00	-4.000	608.054	0.009	608.063	0.00	3.348	608.274	0.002	608.277	0.00	10.636	608.493	-0.000	608.492	0.00	17.924	608.712	-0.000	608.711
	10.00	-4.000	608.006	0.008	608.014	10.00	3.713	608.237	0.000	608.238	10.00	11.000	608.456	-0.001	608.454	10.00	18.288	608.675	-0.001	608.674
	15.78	-4.000	607.978	0.009	607.987	15.87	3.957	608.217	0.000	608.217	15.95	11.248	608.435	-0.001	608.434	16.03	18.538	608.654	-0.000	608.654

**NOTES:** FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 7-8 NB, SEE DRAWING NOS. S-129 AND S-140.  
 FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 4-5 SB, SEE DRAWING NO. S-125.  
 FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 7-8 SB, SEE DRAWING NO. S-140A.  
 TABULATED DISTANCES ARE MEASURED FROM CENTER LINE BEARINGS AT NORTH END IN EACH SPAN, ALONG CENTER LINE OF GIRDERS.  
 TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB ALONG CENTER LINE OF GIRDERS.  
 NORMAL OFFSETS ARE MEASURED FROM PROFILE GRADE LINE.  
 POSITIVE OFFSETS PERTAIN TO POINTS WEST OF THE P.G.  
 NEGATIVE OFFSETS PERTAIN TO POINTS EAST OF THE P.G.  
 POSITIVE DEFLECTIONS INDICATE DOWNWARD DEFLECTIONS. NEGATIVE DEFLECTIONS INDICATE UPWARD DEFLECTIONS.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY R.D. KOESTER  
 DRAWN BY D. HAMILTON  
 CHECKED R.D. Koester  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

DECK ELEVATIONS-UNIT "B"  
 F.A.I. 74-SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265+20  
 SCALE: AS NOTED DATE:



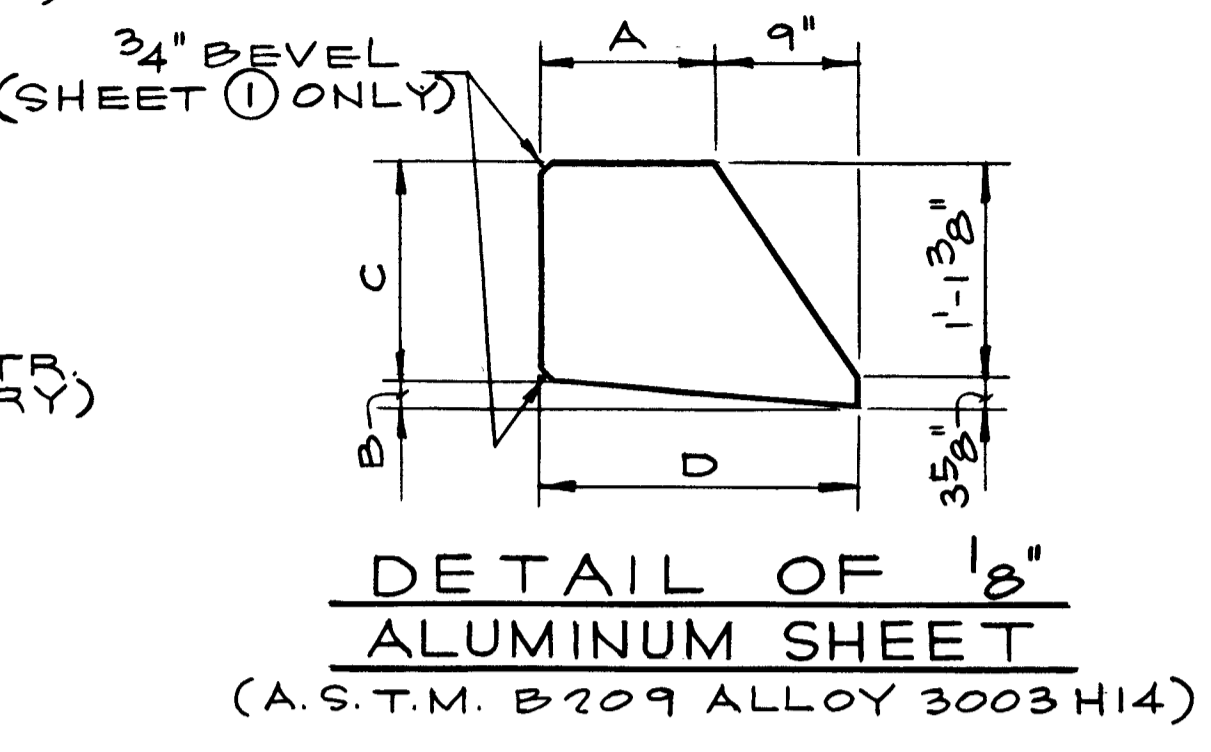
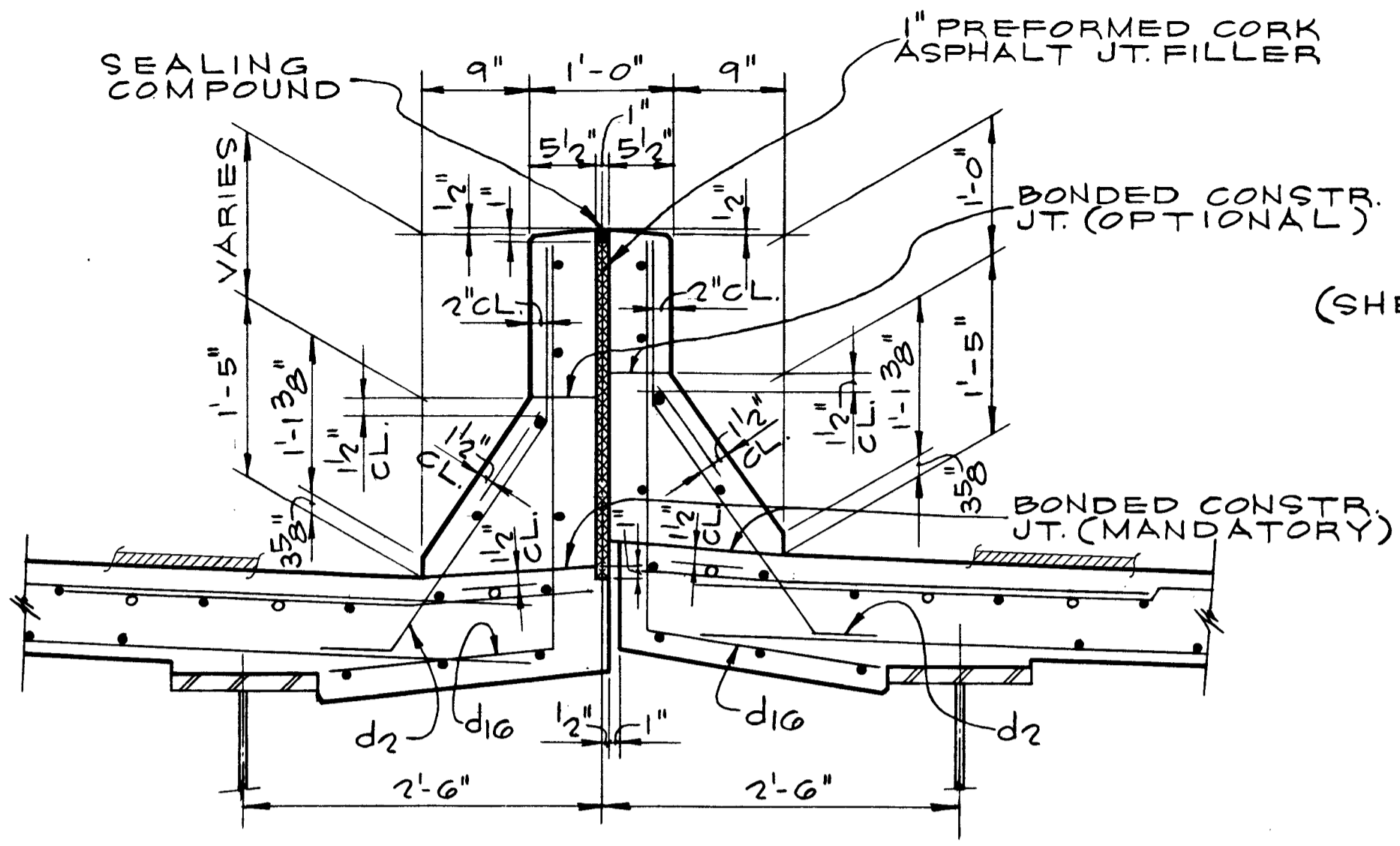
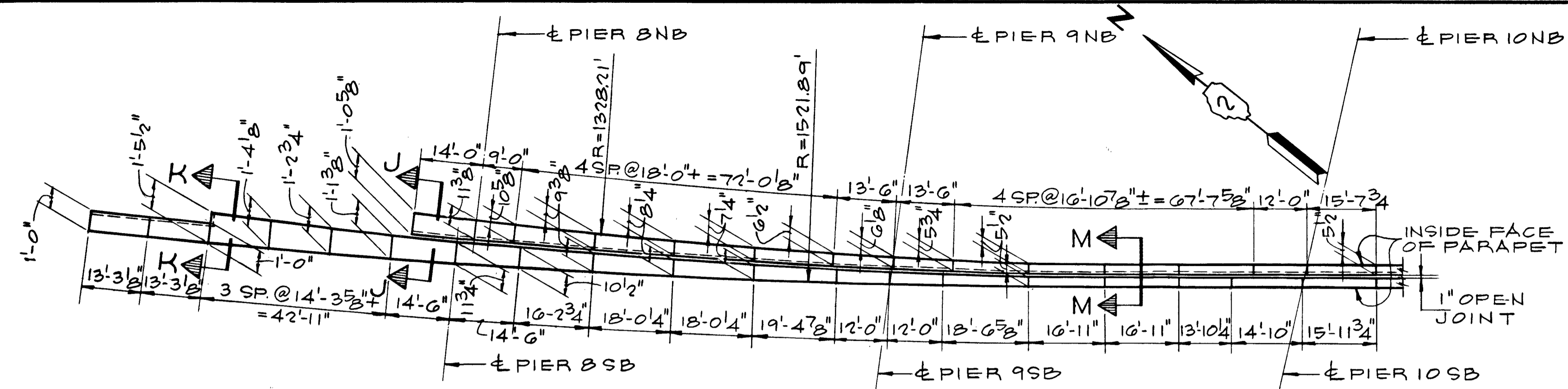


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

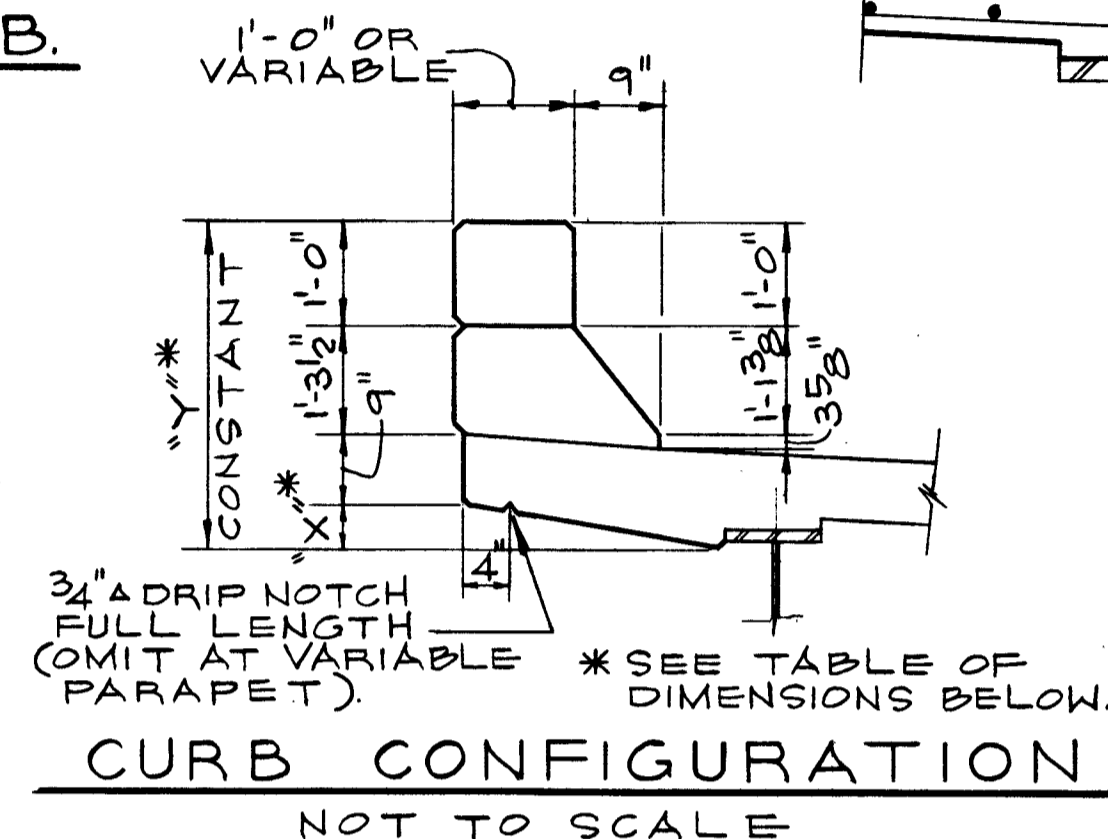
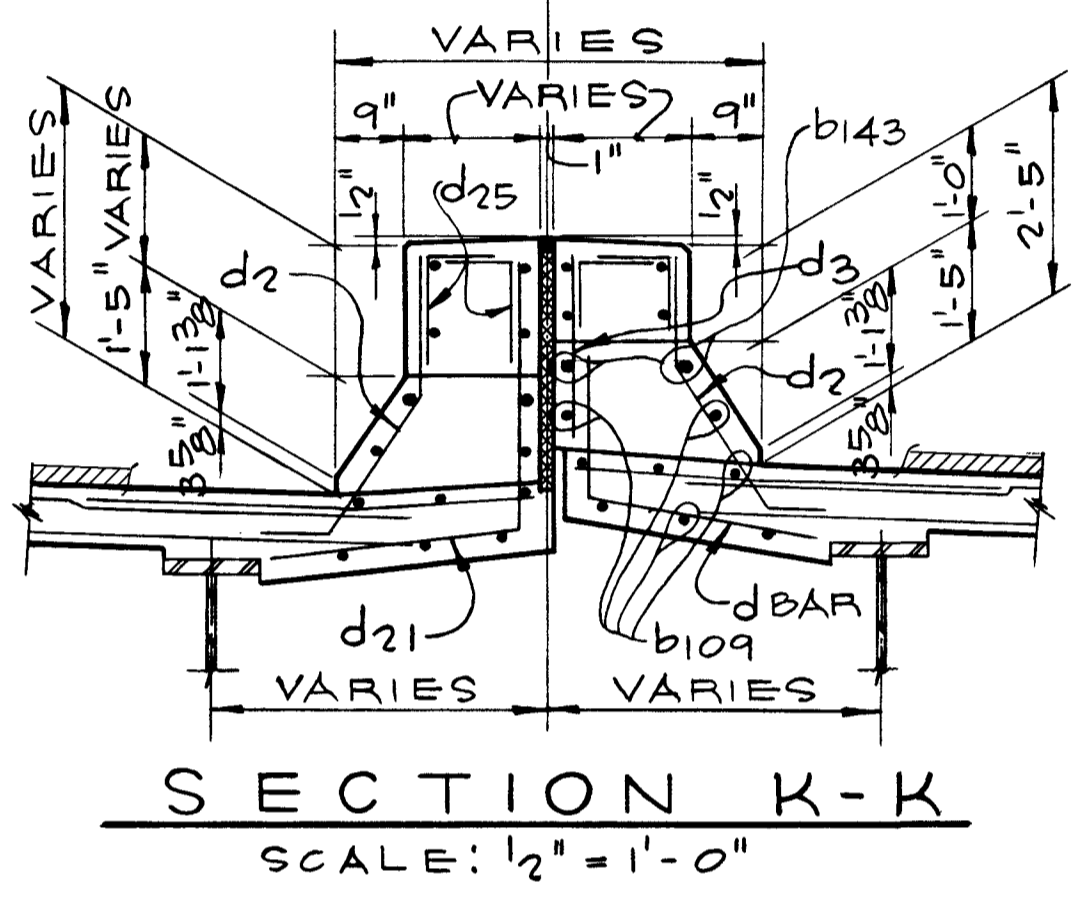
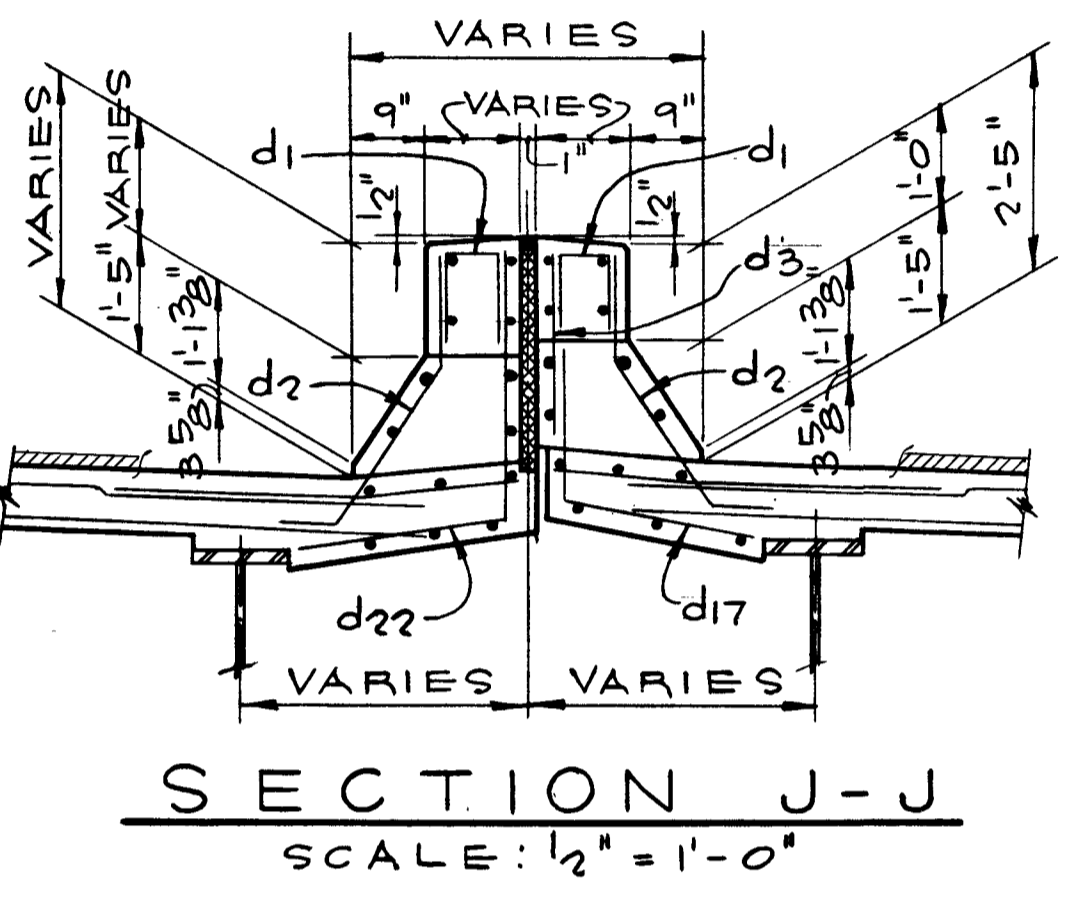
DWGS-135

	GIRDER - 275					GIRDER - 276					GIRDER - 277					GIRDER - 278				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8 (EXP BRG. TO PIER 8)	0.00	-18.500	608.334	0.003	608.337	0.00	-11.000	608.588	0.004	608.592	0.00	-3.500	608.842	0.001	608.843	0.00	4.000	609.097	0.002	609.099
	10.00	-18.500	608.109	0.016	608.126	10.00	-11.000	608.364	0.018	608.382	10.00	-3.500	608.619	0.016	608.635	10.00	4.000	608.874	0.017	608.891
	20.00	-18.500	607.865	0.030	607.896	20.00	-11.000	608.121	0.033	608.154	20.00	-3.500	608.377	0.031	608.409	20.00	4.000	608.634	0.032	608.666
	30.00	-18.500	607.604	0.034	607.638	30.00	-11.000	607.861	0.036	607.897	30.00	-3.500	608.118	0.034	608.153	30.00	4.000	608.375	0.034	608.410
	40.00	-18.500	607.323	0.033	607.357	40.00	-11.000	607.582	0.035	607.617	40.00	-3.500	607.840	0.034	607.875	40.00	4.000	608.099	0.034	608.134
	50.00	-18.500	607.024	0.027	607.052	50.00	-11.000	607.284	0.028	607.313	50.00	-3.500	607.544	0.027	607.572	50.00	4.000	607.805	0.028	607.833
	60.00	-18.500	606.707	0.017	606.724	60.00	-11.000	606.969	0.017	606.987	60.00	-3.500	607.231	0.017	607.248	60.00	4.000	607.492	0.017	607.510
	70.00	-18.500	606.371	0.009	606.380	70.00	-11.000	606.635	0.009	606.644	70.00	-3.500	606.899	0.008	606.907	70.00	4.000	607.162	0.009	607.172
84.16	-18.500	605.863	0.002	605.866	84.28	-11.000	606.126	0.001	606.127	84.41	-3.500	606.388	0.001	606.389	84.53	4.000	606.651	0.002	606.653	
SPAN 8-9	0.00	-18.500	605.863	0.002	605.866	0.00	-11.000	606.126	0.001	606.127	0.00	-3.500	606.388	0.001	606.389	0.00	4.000	606.651	0.002	606.653
	10.00	-18.500	605.483	0.012	605.495	10.00	-11.000	605.747	0.011	605.759	10.00	-3.500	606.012	0.012	606.024	10.00	4.000	606.277	0.013	606.290
	20.00	-18.500	605.083	0.022	605.106	20.00	-11.000	605.351	0.022	605.373	20.00	-3.500	605.618	0.023	605.641	20.00	4.000	605.885	0.024	605.910
	30.00	-18.500	604.665	0.036	604.702	30.00	-11.000	604.935	0.038	604.974	30.00	-3.500	605.205	0.039	605.245	30.00	4.000	605.475	0.040	605.516
	40.00	-18.500	604.229	0.050	604.279	40.00	-11.000	604.502	0.053	604.555	40.00	-3.500	604.775	0.054	604.830	40.00	4.000	605.048	0.056	605.104
	50.00	-18.500	603.774	0.054	603.829	50.00	-11.000	604.050	0.057	604.108	50.00	-3.500	604.326	0.059	604.385	50.00	4.000	604.602	0.060	604.663
	60.00	-18.500	603.301	0.057	603.358	60.00	-11.000	603.580	0.060	603.641	60.00	-3.500	603.860	0.063	603.923	60.00	4.000	604.139	0.064	604.204
	70.00	-18.500	602.809	0.046	602.855	70.00	-11.000	603.092	0.048	603.141	70.00	-3.500	603.375	0.050	603.425	70.00	4.000	603.658	0.051	603.710
	80.00	-18.500	602.298	0.034	602.332	80.00	-11.000	602.585	0.035	602.621	80.00	-3.500	602.872	0.037	602.909	80.00	4.000	603.159	0.038	603.198
	90.00	-18.500	601.769	0.016	601.785	90.00	-11.000	602.060	0.016	602.077	90.00	-3.500	602.351	0.017	602.369	90.00	4.000	602.642	0.018	602.661
98.36	-18.500	601.312	0.001	601.314	98.42	-11.000	601.604	0.000	601.605	98.47	-3.500	601.896	0.000	601.896	98.52	4.000	602.187	0.001	602.188	
SPAN 9-10 (PIER 9 TO EXP BRG.)	0.00	-18.500	601.312	0.001	601.314	0.00	-11.000	601.604	0.000	601.605	0.00	-3.500	601.896	0.000	601.896	0.00	4.000	602.187	0.001	602.188
	10.00	-18.500	600.749	-0.010	600.738	10.00	-11.000	601.045	-0.012	601.033	10.00	-3.500	601.341	-0.013	601.328	10.00	4.000	601.637	-0.013	601.623
	12.75	-18.500	600.591	-0.014	600.576	12.75	-11.000	600.888	-0.016	600.872	12.75	-3.500	601.185	-0.017	601.168	12.74	4.000	601.482	-0.017	601.465

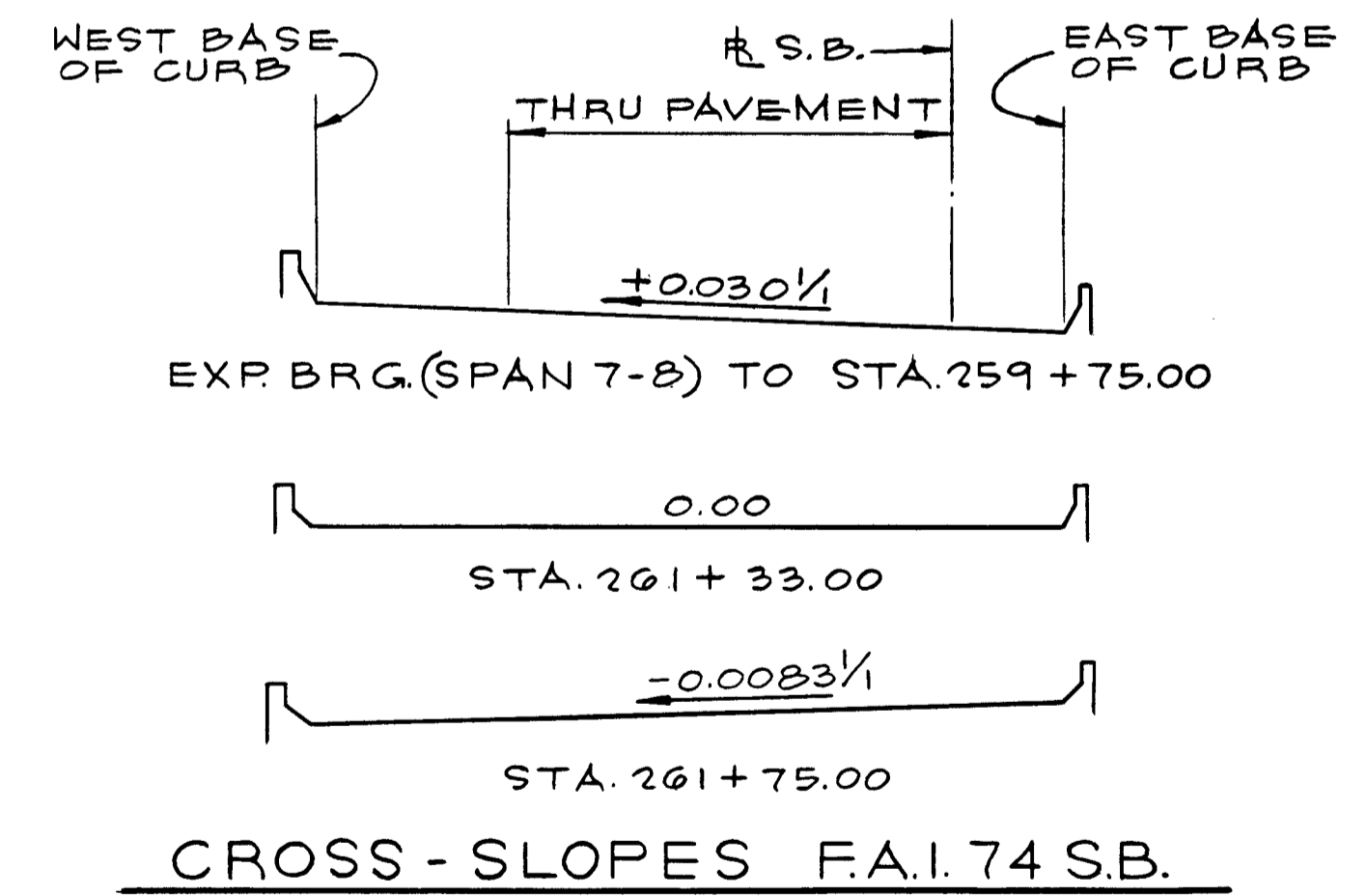
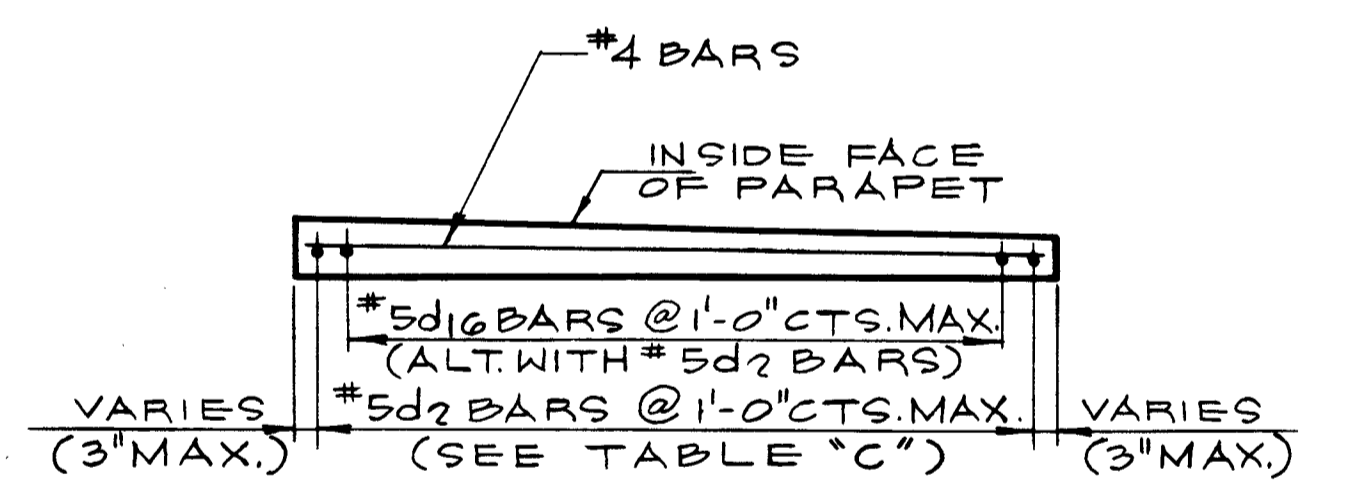
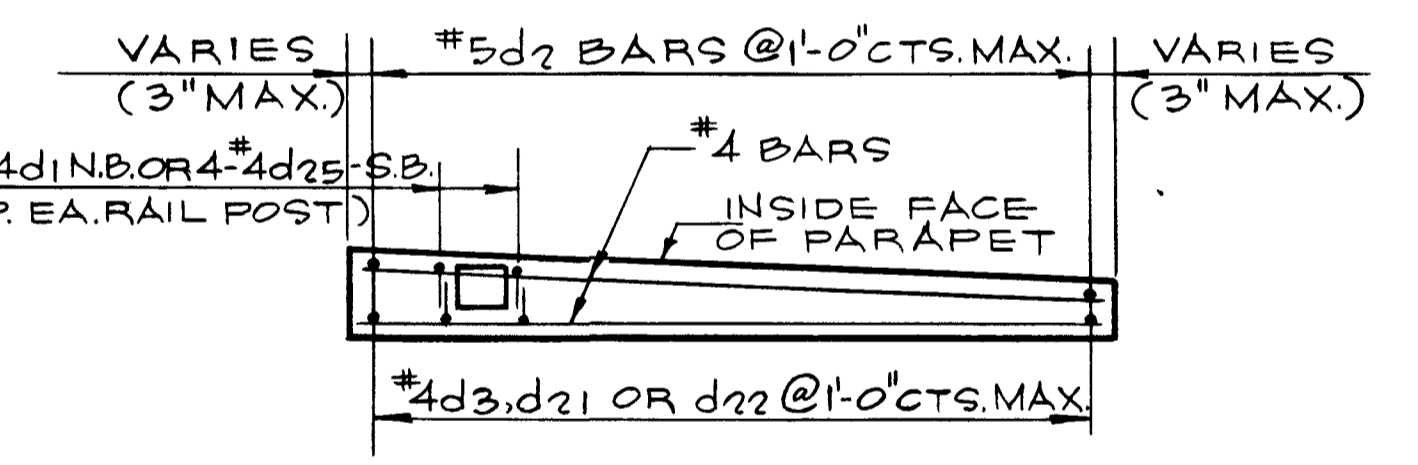
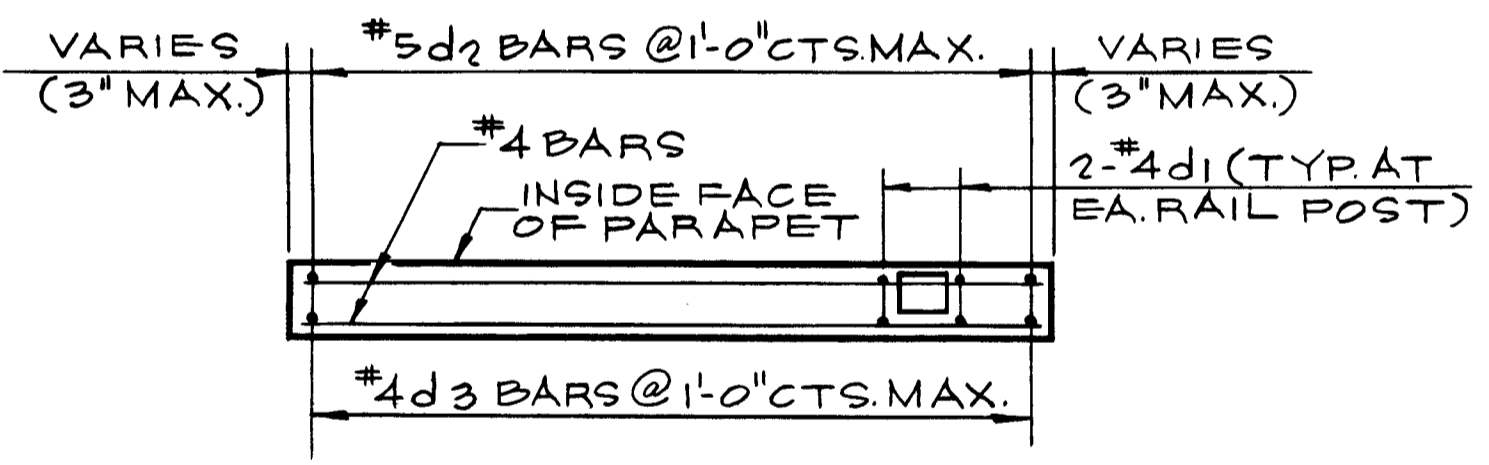
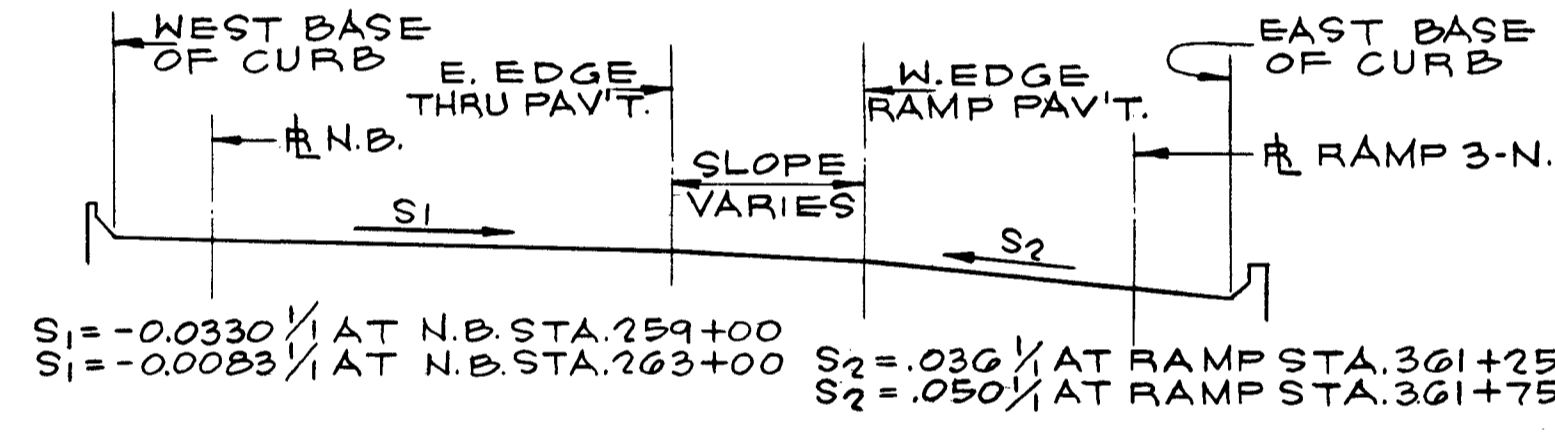
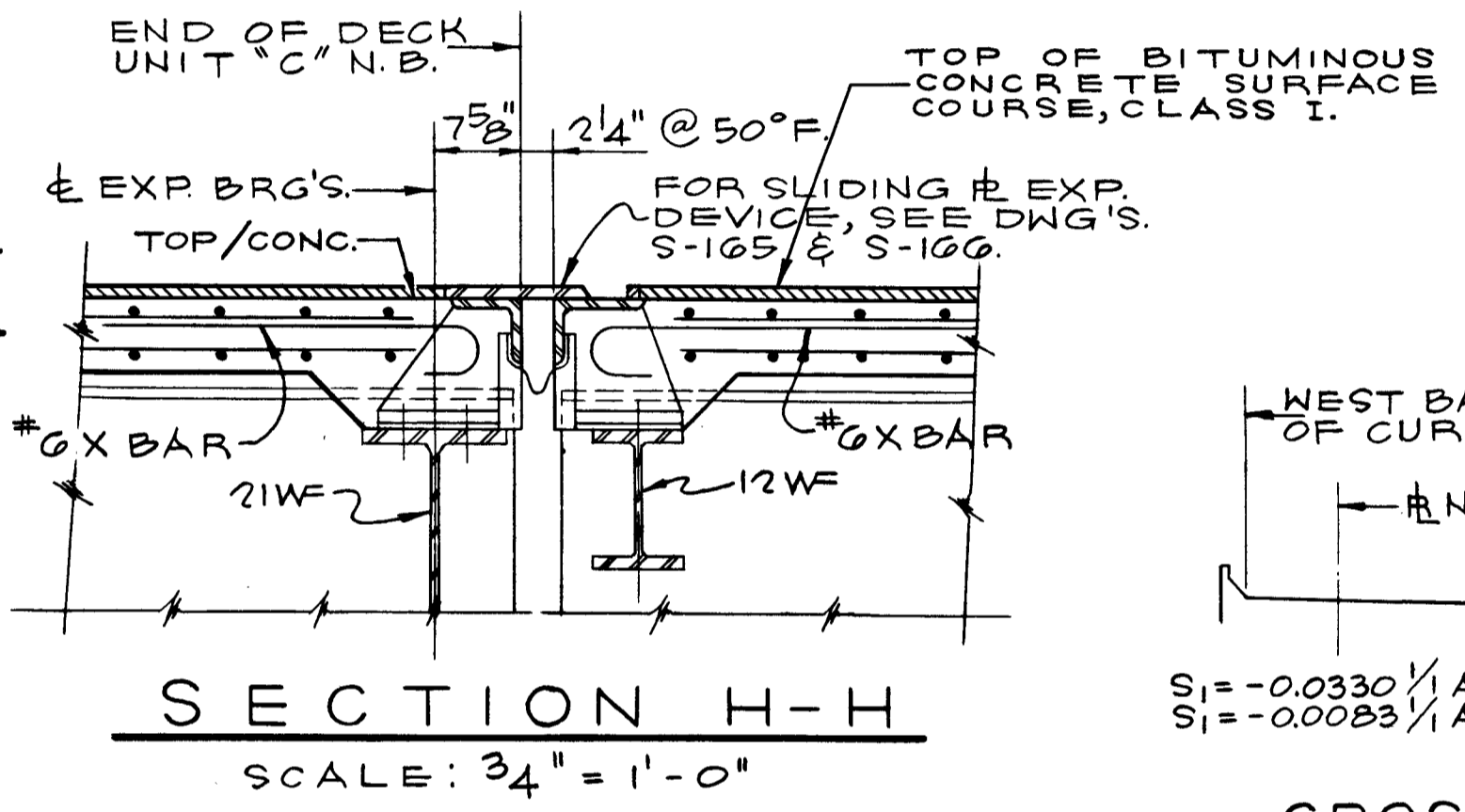
	GIRDER - 279					GIRDER - 280					GIRDER - 281					GIRDER - 282				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 9-10 (EXP BRG. TO PIER 10)	0.00	-18.500	600.591	-0.014	600.576	0.00	-11.000	600.888	-0.016	600.872	0.00	-3.500	601.185	-0.017	601.168	0.00	4.000	601.482	-0.017	601.465
	10.00	-18.500	600.006	0.001	600.007	10.00	-11.000	600.307	0.000	600.308	10.00	-3.500	600.609	-0.000	600.608	10.00	4.000	600.910	-0.001	600.908
	20.00	-18.500	599.417	0.013	599.431	20.00	-11.000	599.722	0.014	599.737	20.00	-3.500	600.027	0.014	600.042	20.00	4.000	600.331	0.014	600.346
	30.00	-18.500	598.829	0.017	598.846	30.00	-11.000	599.137	0.017	599.155	30.00	-3.500	599.445	0.017	599.463	30.00	4.000	599.753	0.016	599.769
	40.00	-18.500	598.240	0.017	598.258	40.00	-11.000	598.552	0.018	598.571	40.00	-3.500	598.864	0.018	598.882	40.00	4.000	599.175	0.018	599.193
	50.00	-18.500	597.651	0.011	597.663	50.00	-11.000	597.967	0.011	597.979	50.00	-3.500	598.282	0.011	598.294	50.00	4.000	598.597	0.011	598.608
	60.00	-18.500	597.063	0.006	597.069	60.00	-11.000	597.382	0.005	597.387	60.00	-3.500	597.701	0.004	597.705	60.00	4.000	598.019	0.004	598.023
	75.43	-18.500	596.447	0.003	596.450	74.88	-11.000	596.482	0.000	596.483	74.33	-3.500	596.859	0.000	596.860	73.78	4.000	597.228	0.002	597.230
SPAN 10-II	0.00	-18.500	596.096	0.002	596.098	0.00	-11.000	596.482	0.000	596.483	0.00	-3.500	596.859	0.000	596.860	0.00	4.000	597.228	0.002	597.230
	10.00	-18.500	595.451	0.013	595.465	10.00	-11.000	595.864	0.012	595.876	10.00	-3.500	596.267	0.012	596.280	10.00	4.000	596.662	0.013	596.676
	20.00	-18.500	594.805	0.024	594.830	20.00	-11.000	595.245	0.024	595.269	20.00	-3.500	595.675	0.024	595.699	20.00	4.000	596.096	0.025	596.121
	30.00	-18.500	594.152	0.038	594.191	30.00	-11.000	594.623	0.037	594.660	30.00	-3.500	595.082	0.036	595.118	30.00	4.000	595.531	0.036	595.567
	40.00	-18.500	593.508	0.049	593.557	40.00	-11.000	594.000	0.049	594.049	40.00	-3.500	594.488	0.048	594.537	40.00	4.000	594.966	0.048	595.013
	50.00	-18.500	592.912	0.055	592.967	50.00	-11.000	593.409	0.052	593.462	50.00	-3.500	593.903	0.050	593.953	50.00	4.000	594.394	0.048	594.443
	60.00	-18.500	592.317	0.051	592.369	60.00	-11.000	592.820	0.050	592.870	60.00	-3.500	593.320	0.047	593.368	60.00	4.000	593.818	0.046	593.864
	70.00	-18.500	591.721	0.044	591.766	70.00	-11.000	592.231	0.041	592.272	70.00	-3.500	592.737	0.037	592.775	70.00	4.000	593.241	0.034	593.275
	80.00	-18.500	591.126	0.030	591.157	80.00	-11.000	591.642	0.027	591.669	80.00	-3.500	592.154	0.024	592.179	80.00	4.000	592.664	0.021	592.686
	90.00	-18.500	590.531	0.018	590.549	90.00	-11.000	591.053	0.014	591.067	90.00	-3.500	591.571	0.010	591.582	90.00	4.000	592.087	0.009	592.097
100.00	-18.500	589.935	0.008	589.944	100.00	-11.000	590.464	0.006	590.470	100.00	-3.500	590.989	0.004	590.993	100.00	4.000	591.510	0.003	591.514	
106.02	-18.500	589.339	0.002	589.348	105.80	-11.000	590.122	0.001	590.123	105.58	-3.500	590.663	0.001	590.664	105.37	4.000	591.200	0.002	591.203	
SPAN II-E	0.00	-18.500	589.577	0.002	589.579	0.00	-11.000	590.122	0.001	590.123	0.00	-3.500	590.663	0.001	590.664	0.00	4.000	591.200	0.002	591.203
	10.00	-18.500	588.981	0.005	588.986	10.00	-11.000	589.533	0.008	589.541	10.00	-3.500	590.080	0.011	590.091	10.00	4.000	590.624	0.015	590.639
	20.00	-18.500	588.386	0.010	588.396	20.00	-11.000	588.943	0.015	588.959	20.00	-3.500	589.497	0.021	589.519	20.00	4.000	590.047	0.028	590.075
	30.00	-18.500	587.790	0.018	587.809	30.00	-11.000	588.354	0.027	588.382	30.00	-3.500	588.914	0.035	588.950	30.00	4.000	589.470	0.043	589.513
	40.00	-18.500	587.195	0.024	587.219	40.00	-11.000	587.765	0.036	587.802	40.00	-3.500	588.331	0.048	588.380	40.00	4.000	588.893	0.059	588.953
	50.00	-18.500	586.600	0.026	586.627	50.00	-11.000	587.176	0.041	587.218	50.00	-3.500	587.749	0.053	587.802	50.00	4.000	588.316	0.065	



SHEET NO.	NO. OF SHEETS N.B./S.B.	DIMENSIONS			
		A	B	C	D
1	7 9	1'-0"	1 1/2"	1'-3 1/2"	1'-9"
2	1 -	11 3/8"	1 1/2"	1'-3 1/2"	1'-8 3/8"
3	1 -	10 3/8"	1 3/8"	1'-3 3/8"	1'-7 5/8"
4	1 1	6 1/2"	1 1/8"	1'-3 1/8"	1'-3 1/2"
5	1 1	6 1/2"	1 1/8"	1'-3 1/8"	1'-3 1/8"
6	1 1	5 3/4"	1 1/8"	1'-3 1/8"	1'-2 3/4"
7	2 3	5 1/2"	1"	1'-4"	1'-2 1/2"
8	- 1	10 1/2"	1 3/8"	1'-3 5/8"	1'-7 1/2"
9	- 1	11 3/4"	1 1/2"	1'-3 1/2"	1'-8 3/4"
10	- 1	11-13 1/8"	1 5/8"	1'-3 3/8"	1'-10 3/8"



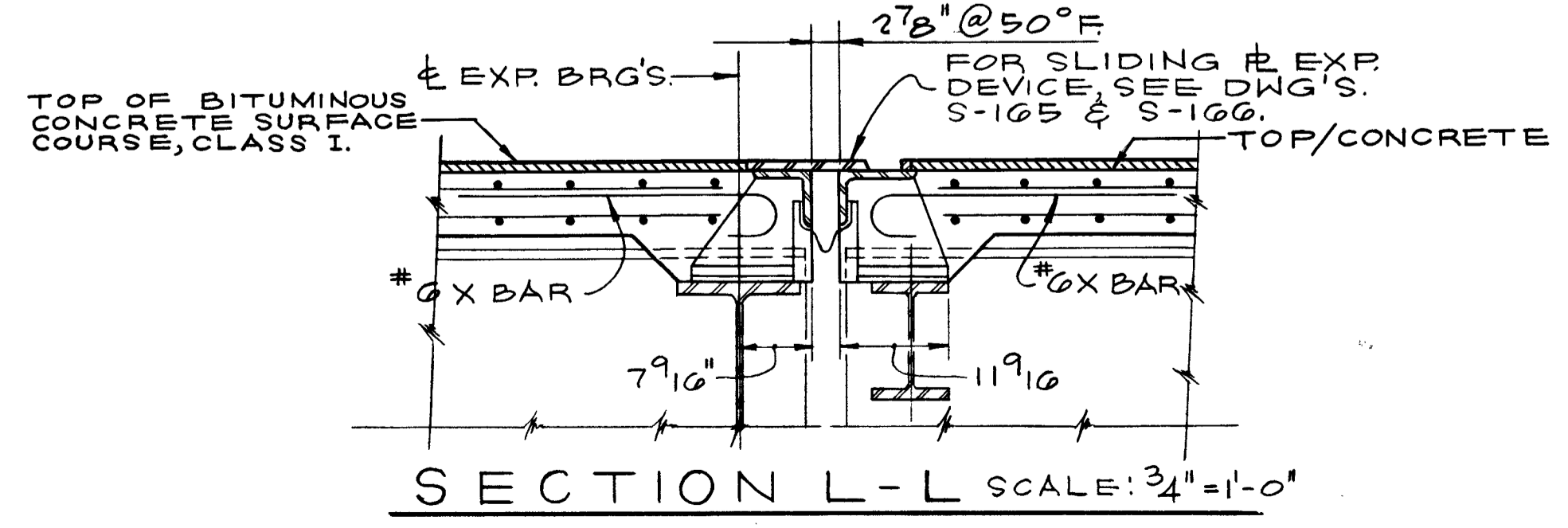
LOC. DIM.	N. BOUND		S. BOUND	
	E. CURB	W. CURB	E. CURB	W. CURB
"X"	3 3/8"	3 7/8"	3 3/8"	4 3/8"
"Y"	3'-3 7/8"	3'-4 3/8"	3'-3 7/8"	3'-4 7/8"



LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EA. PANEL		
			#4d <sub>3</sub>	#5d <sub>2</sub>	#4 BARS
N. BOUND	(A)	3	14	14	2-E62 E.F.
	(B)	1	10	10	2-E63 E.F.
	(C)	4	19	19	2-E64 E.F.
	(D)	4	19	19	2-E33 E.F.
	(E)	1	13	13	2-E65 E.F.
	(F)	1	17	17	2-E66 E.F.
S. BOUND	(G)	5	18	18	2-E67 E.F.
	(A)	2	14	14	2-E66 E.F.
	(O)	2	15	15	2-E71 E.F.
	(Z)	4	19	19	2-E52 E.F.
	(P)	4	18	18	2-E67 E.F.
	(S)	6	17	17	2-E73 E.F.
(V)	2	13	13	2-E65 E.F.	
(V)	5	17	17	2-E6 E.F.	

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL				
			#4d <sub>3</sub>	#5d <sub>2</sub>	#4d <sub>21</sub>	#4d <sub>22</sub>	#4 BARS
N. BOUND	(S)	1	10	10	-	-	2-E63 E.F.
	(H)	1	15	15	-	-	2-E68 E.F.
	(U)	3	19	19	-	-	2-E69 E.F.
S. BOUND	(B)	3	-	15	15	-	2-E40 E.F.
	(C)	2	-	15	-	15	2-E71 E.F.
	(D)	1	-	17	-	17	2-E27 E.F.
	(E)	1	-	19	-	19	2-E69 E.F.

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EA. PANEL		
			#5d <sub>2</sub>	#5d <sub>16</sub>	#4 BARS
N. BOUND	(K)	4	18	17	2-E24
	(L)	1	17	16	2-E55
	(M)	5	17	16	2-E13
	(N)	2	14	13	2-E62
	(P)	1	13	12	2-E65
	(R)	1	19	18	2-E69
S. BOUND	(E)	1	20	19	2-E88
	(G)	2	13	12	2-E65
	(H)	1	19	18	2-E64
	(U)	1	16	15	2-E76
	(K)	1	17	16	2-E66
	(L)	1	17	16	2-E74
	(R)	4	17	16	2-E13
	(U)	2	18	17	2-E24
	(E)	1	15	14	2-E89
(E)	1	19	18	2-E69	



DECK SLAB - UNIT "C"  
MISCELLANEOUS DETAILS  
F.A.I. 74 - SECTION 81-1HV8  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R. KENNEDY  
DRAWN BY G.P. ALLEMAN  
CHECKED J. HANAZA  
IN CHARGE C. MARTINS  
APPROVED W.G. HORN



	GIRDER G30					GIRDER G31					GIRDER G32					GIRDER G33				
	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT.)	OFFSET (FEET)	GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8 (FIX. BRG. TO PIER 8)	0.00	-4.000	606.105	0.002	606.107	0.00	1.578	606.302	-0.004	606.298	0.00	8.545	606.555	-0.008	606.546	0.00	15.512	606.807	-0.009	606.797
	10.00	-4.000	606.040	0.007	606.047	10.00	1.305	606.233	0.000	606.233	10.00	8.270	606.485	-0.004	606.481	10.00	15.235	606.738	-0.005	606.732
	14.22	-4.000	606.015	0.010	606.025	14.30	1.212	606.204	0.003	606.207	14.38	8.174	606.456	-0.001	606.454	14.45	15.136	606.708	-0.002	606.705
SPAN 8-9	0.00	-4.000	606.015	0.010	606.025	0.00	1.212	606.204	0.003	606.207	0.00	8.174	606.456	-0.001	606.454	0.00	15.136	606.708	-0.002	606.705
	10.00	-4.000	605.955	0.020	605.976	10.00	1.056	606.138	0.015	606.154	10.00	8.016	606.390	0.010	606.400	10.00	14.976	606.643	0.008	606.651
	20.00	-4.000	605.895	0.033	605.928	20.00	0.977	606.075	0.029	606.105	20.00	7.934	606.328	0.023	606.351	20.00	14.892	606.580	0.021	606.602
	30.00	-4.000	605.834	0.041	605.876	30.00	0.975	606.015	0.038	606.054	30.00	7.930	606.268	0.031	606.300	30.00	14.885	606.521	0.032	606.553
	40.00	-4.000	605.774	0.047	605.821	40.00	1.051	605.958	0.044	606.002	40.00	8.003	606.211	0.036	606.248	40.00	14.854	606.464	0.038	606.502
	50.00	-4.000	605.714	0.051	605.765	50.00	1.205	605.904	0.048	605.952	50.00	8.153	606.157	0.041	606.198	50.00	15.101	606.410	0.039	606.449
	60.00	-4.000	605.654	0.046	605.697	60.00	1.436	605.852	0.039	605.891	60.00	8.379	606.105	0.032	606.138	60.00	15.323	606.359	0.033	606.392
	70.00	-4.000	605.594	0.035	605.629	70.00	1.744	605.803	0.029	605.833	70.00	8.683	606.057	0.023	606.080	70.00	15.122	606.310	0.022	606.332
	80.00	-4.000	605.533	0.026	605.560	80.00	2.130	605.757	0.019	605.777	80.00	9.064	606.011	0.012	606.024	80.00	15.998	606.264	0.009	606.274
	90.00	-4.000	605.473	0.017	605.491	90.00	2.593	605.714	0.008	605.722	90.00	9.521	605.968	0.001	605.970	90.00	16.450	606.226	-0.000	606.226
	96.42	-4.000	605.435	0.014	605.449	96.08	2.912	605.689	0.004	605.694	95.87	8.826	605.944	-0.001	605.942	95.66	16.740	606.207	-0.003	606.204
SPAN 9-10	0.00	-4.000	605.435	0.014	605.449	0.00	2.912	605.689	0.004	605.694	0.00	9.826	605.944	-0.001	605.942	0.00	16.740	606.207	-0.003	606.204
	10.00	-4.000	605.374	0.017	605.392	10.00	2.655	605.620	0.007	605.627	10.00	9.656	605.878	0.000	605.878	10.00	16.656	606.144	-0.002	606.142
	20.00	-4.000	605.314	0.023	605.337	20.00	2.475	605.554	0.012	605.567	20.00	9.564	605.815	0.004	605.820	20.00	16.649	606.086	0.001	606.087
	30.00	-4.000	605.254	0.028	605.283	30.00	2.373	605.490	0.017	605.508	30.00	9.548	605.755	0.008	605.764	30.00	16.719	606.031	0.006	606.037
	40.00	-4.000	605.194	0.034	605.228	40.00	2.347	605.429	0.022	605.452	40.00	9.609	605.698	0.011	605.710	40.00	16.867	605.980	0.010	605.990
	50.00	-4.000	605.134	0.037	605.171	50.00	2.400	605.371	0.025	605.397	50.00	9.747	605.643	0.014	605.658	50.00	17.092	605.933	0.010	605.943
	60.00	-4.000	605.073	0.033	605.107	60.00	2.529	605.316	0.020	605.336	60.00	9.962	605.591	0.009	605.601	60.00	17.395	605.891	0.006	605.897
	70.00	-4.000	605.013	0.029	605.042	70.00	2.736	605.264	0.015	605.279	70.00	10.254	605.542	0.004	605.547	70.00	17.775	605.853	0.001	605.854
	80.00	-4.000	604.953	0.024	604.978	80.00	3.021	605.214	0.010	605.224	80.00	10.623	605.496	0.000	605.496	80.00	18.233	605.819	-0.003	605.816
90.00	-4.000	604.893	0.020	604.913	90.00	3.382	605.167	0.005	605.173	90.00	11.069	605.453	-0.003	605.450	90.00	18.767	605.789	-0.006	605.783	
98.30	-4.000	604.843	0.020	604.863	97.54	3.706	605.134	0.006	605.140	96.81	11.416	605.425	-0.002	605.423	96.09	19.131	605.772	-0.004	605.768	
SPAN 10-11 (PIER 10 TO FIX. BRG.)	0.00	-4.000	604.843	0.020	604.863	0.00	3.706	605.134	0.006	605.140	0.00	11.416	605.425	-0.002	605.423	0.00	19.131	605.772	-0.004	605.768
	10.00	-4.000	604.783	0.029	604.812	10.00	3.975	605.084	0.015	605.100	10.00	11.996	605.386	0.008	605.395	10.00	19.790	605.746	0.007	605.753
	16.78	-4.000	604.742	0.037	604.779	16.63	4.204	605.052	0.024	605.076	16.49	12.414	605.363	0.017	605.380	16.46	20.256	605.730	0.016	605.746

	GIRDER G34					GIRDER G35					GIRDER G36					GIRDER G37				
	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT.)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8 (FIX. BRG. TO PIER 8)	0.00	-21.372	607.037	-0.009	607.027	0.00	-14.401	607.267	-0.006	607.260	0.00	-7.430	607.497	0.000	607.497	0.00	-0.459	607.727	0.011	607.738
	10.00	-21.974	606.968	-0.006	606.962	10.00	-15.003	607.198	-0.004	607.194	10.00	-8.033	607.429	0.002	607.431	10.00	-1.062	607.659	0.014	607.674
	14.53	-22.222	606.938	-0.003	606.935	14.60	-15.256	607.168	-0.001	607.166	14.69	-8.290	607.398	0.005	607.403	14.76	-1.324	607.628	0.017	607.645
SPAN 8-9	0.00	-22.222	606.938	-0.003	606.935	0.00	-15.256	607.168	-0.001	607.166	0.00	-8.290	607.398	0.005	607.403	0.00	-1.324	607.628	0.017	607.645
	10.00	-22.709	606.873	0.007	606.881	10.00	-15.743	607.103	0.008	607.112	10.00	-8.777	607.333	0.015	607.349	10.00	-1.811	607.563	0.028	607.592
	20.00	-23.120	606.811	0.020	606.831	20.00	-16.155	607.041	0.020	607.062	20.00	-9.190	607.271	0.027	607.299	20.00	-2.224	607.502	0.040	607.542
	30.00	-23.455	606.759	0.028	606.787	30.00	-16.491	606.987	0.029	607.016	30.00	-9.527	607.215	0.035	607.251	30.00	-2.563	607.443	0.048	607.492
	40.00	-23.715	606.716	0.033	606.750	40.00	-16.752	606.940	0.033	606.974	40.00	-9.790	607.164	0.040	607.205	40.00	-2.827	607.388	0.053	607.442
	50.00	-23.898	606.677	0.037	606.714	50.00	-16.938	606.896	0.037	606.934	50.00	-9.977	607.116	0.044	607.161	50.00	-3.016	607.336	0.057	607.394
	60.00	-24.006	606.640	0.028	606.668	60.00	-17.047	606.855	0.029	606.884	60.00	-10.089	607.070	0.036	607.107	60.00	-3.130	607.286	0.048	607.335
	70.00	-24.037	606.605	0.019	606.625	70.00	-17.081	606.816	0.020	606.836	70.00	-10.125	607.027	0.027	607.055	70.00	-3.170	607.239	0.039	607.279
	80.00	-23.992	606.572	0.009	606.582	80.00	-17.040	606.779	0.010	606.790	80.00	-10.087	606.986	0.018	607.004	80.00	-3.170	607.239	0.039	607.279
	90.00	-23.872	606.542	-0.000	606.541	90.00	-16.923	606.745	0.000	606.745	90.00	-9.974	606.948	0.008	606.956	90.00	-3.134	607.194	0.030	607.225
	95.45	-23.774	606.526	-0.003	606.522	95.25	-16.831	606.727	-0.002	606.725	95.04	-9.888	606.929	0.005	606.934	94.83	-2.944	607.131	0.019	607.150
SPAN 9-10	0.00	-23.774	606.526	-0.003	606.522	0.00	-16.831	606.727	-0.002	606.725	0.00	-9.888	606.929	0.005	606.934	0.00	-2.944	607.131	0.019	607.150
	10.00	-24.091	606.484	-0.002	606.481	10.00	-17.154	606.680	-0.000	606.680	10.00	-10.216	606.877	0.007	606.885	10.00	-3.278	607.075	0.021	607.096
	20.00	-24.339	606.436	0.001	606.437	20.00	-17.401	606.636	0.004	606.640	20.00	-10.469	606.828	0.012	606.841	20.00	-3.537	607.022	0.026	607.049
	30.00	-24.507	606.394	0.006	606.400	30.00	-17.572	606.593	0.008	606.601	30.00	-10.647	606.782	0.016	606.799	30.00	-3.721	606.971	0.031	607.002
	40.00	-24.597	606.355	0.010	606.365	40.00	-17.668	606.553	0.011	606.565	40.00	-10.749	606.737	0.020	606.758	40.00	-3.830	606.922	0.035	606.958
	50.00	-24.610	606.320	0.010	606.330	50.00	-17.688	606.515	0.014	606.529	50.00	-10.776	606.695	0.024	606.719	50.00	-3.865	606.876	0.039	606.915
	60.00	-24.546	606.289	0.007	606.296	60.00	-17.632	606.479	0.009	606.488	60.00	-10.728	606.654	0.019	606.674	60.00	-3.824	606.831	0.035	606.866

	GIRDER G39					GIRDER G40					GIRDER G41					GIRDER G42				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 10-II (FIX. BRG. TO EXP. BRG.)	0.00	-4.000	604.742	0.037	604.779	0.00	2.263	604.979	0.024	605.003	0.00	9.950	605.270	0.017	605.287	0.00	17.642	605.588	0.019	605.607
	10.00	-4.000	604.682	0.062	604.744	10.00	2.118	604.914	0.053	604.967	10.00	9.786	605.204	0.044	605.248	10.00	17.456	605.518	0.042	605.560
	20.00	-4.000	604.621	0.079	604.700	20.00	2.049	604.851	0.077	604.928	20.00	9.699	605.142	0.067	605.209	20.00	17.347	605.451	0.064	605.515
	30.00	-4.000	604.561	0.095	604.656	30.00	2.059	604.792	0.094	604.886	30.00	9.588	605.082	0.080	605.162	30.00	17.315	605.389	0.073	605.462
	40.00	-4.000	604.501	0.094	604.595	40.00	2.145	604.735	0.097	604.832	40.00	9.754	605.025	0.084	605.109	40.00	17.361	605.330	0.077	605.407
	50.00	-4.000	604.438	0.090	604.528	50.00	2.309	604.681	0.093	604.774	50.00	9.898	604.970	0.077	605.047	50.00	17.484	605.275	0.067	605.342
	60.00	-4.000	604.367	0.069	604.436	60.00	2.551	604.637	0.070	604.707	60.00	10.118	604.940	0.059	604.999	60.00	17.685	605.242	0.050	605.292
	70.00	-4.000	604.295	0.043	604.338	70.00	2.869	604.598	0.043	604.641	70.00	10.415	604.921	0.032	604.953	70.00	17.963	605.232	0.023	605.255
	80.00	-4.000	604.220	0.009	604.229	84.62	3.499	604.544	-0.015	604.529	84.49	10.992	604.899	-0.020	604.879	84.36	18.499	605.219	-0.024	605.195
	85.25	-4.000	604.174	-0.010	604.164															

	GIRDER G43					GIRDER G44					GIRDER G45					GIRDER G46				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 10-II (FIX. BRG. TO EXP. BRG.)	0.00	-34.095	605.530	0.092	605.622	0.00	-29.169	605.872	0.014	605.886	0.00	-23.840	606.148	0.014	606.163	0.00	-17.004	606.302	0.012	606.314
	10.00	-34.661	605.486	0.083	605.569	10.00	-29.352	605.834	0.044	605.878	10.00	-23.836	606.115	0.044	606.159	10.00	-17.001	606.264	0.036	606.301
	20.00	-35.226	605.455	0.070	605.525	20.00	-29.535	605.799	0.070	605.869	20.00	-23.833	606.082	0.070	606.152	20.00	-16.998	606.227	0.060	606.287
	30.00	-35.792	605.441	0.040	605.481	30.00	-29.718	605.764	0.082	605.846	30.00	-23.832	606.049	0.082	606.131	30.00	-16.996	606.189	0.068	606.258
	40.00	-36.354	605.423	0.002	605.425	40.00	-29.900	605.731	0.095	605.826	40.00	-23.831	606.015	0.095	606.111	40.00	-16.996	606.152	0.077	606.229
	50.00					50.00	-30.083	605.698	0.084	605.782	50.00	-23.831	605.982	0.084	606.067	50.00	-16.996	606.114	0.070	606.184
	60.00					60.00	-30.266	605.671	0.069	605.740	60.00	-23.832	605.949	0.069	606.018	60.00	-16.997	606.077	0.058	606.135
70.00					70.00	-30.449	605.654	0.037	605.691	70.00	-23.835	605.916	0.037	605.953	70.00	-17.000	606.039	0.031	606.071	
82.36					82.36	-30.674	605.632	0.000	605.632	81.89	-23.839	605.876	0.000	605.876	81.78	-17.004	605.995	0.000	605.995	

	GIRDER G47					GIRDER G48					GIRDER G49				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 10-II (FIX. BRG. TO EXP. BRG.)	0.00	-10.169	606.456	0.019	606.475	0.00	-3.084	606.618	0.033	606.651	0.00	4.000	606.781	0.050	606.831
	10.00	-10.165	606.414	0.043	606.458	10.00	-3.080	606.572	0.054	606.626	10.00	4.004	606.730	0.064	606.795
	20.00	-10.163	606.373	0.067	606.440	20.00	-3.078	606.526	0.076	606.602	20.00	4.006	606.680	0.078	606.759
	30.00	-10.161	606.331	0.075	606.407	30.00	-3.076	606.480	0.083	606.563	30.00	4.008	606.629	0.083	606.713
	40.00	-10.160	606.289	0.082	606.371	40.00	-3.075	606.433	0.086	606.520	40.00	4.009	606.579	0.081	606.661
	50.00	-10.161	606.248	0.075	606.323	50.00	-3.076	606.387	0.080	606.467	50.00	4.008	606.528	0.075	606.604
	60.00	-10.162	606.206	0.060	606.266	60.00	-3.077	606.341	0.062	606.403	60.00	4.007	606.478	0.056	606.534
	70.00	-10.164	606.164	0.033	606.198	70.00	-3.079	606.295	0.035	606.331	70.00	4.004	606.427	0.032	606.460
	81.67	-10.168	606.115	0.000	606.115	81.55	-3.083	606.242	0.000	606.242	81.44	4.001	606.370	0.000	606.370

**NOTES:**

TABULATED DISTANCES ARE MEASURED FROM CENTER LINE BEARINGS AT NORTH END IN EACH SPAN, ALONG CENTER LINE OF GIRDERS.

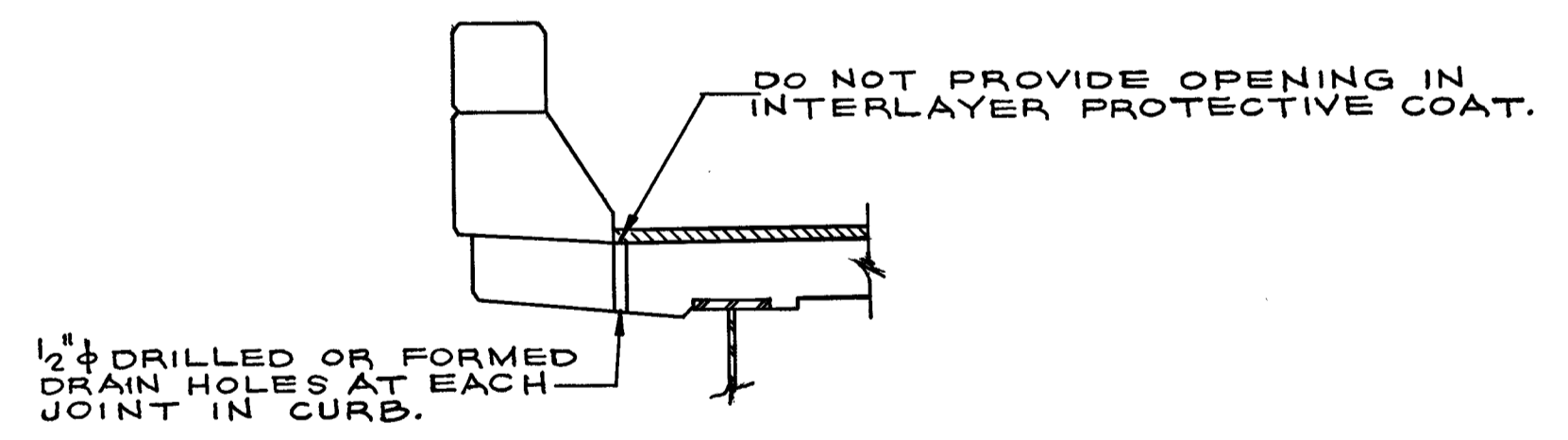
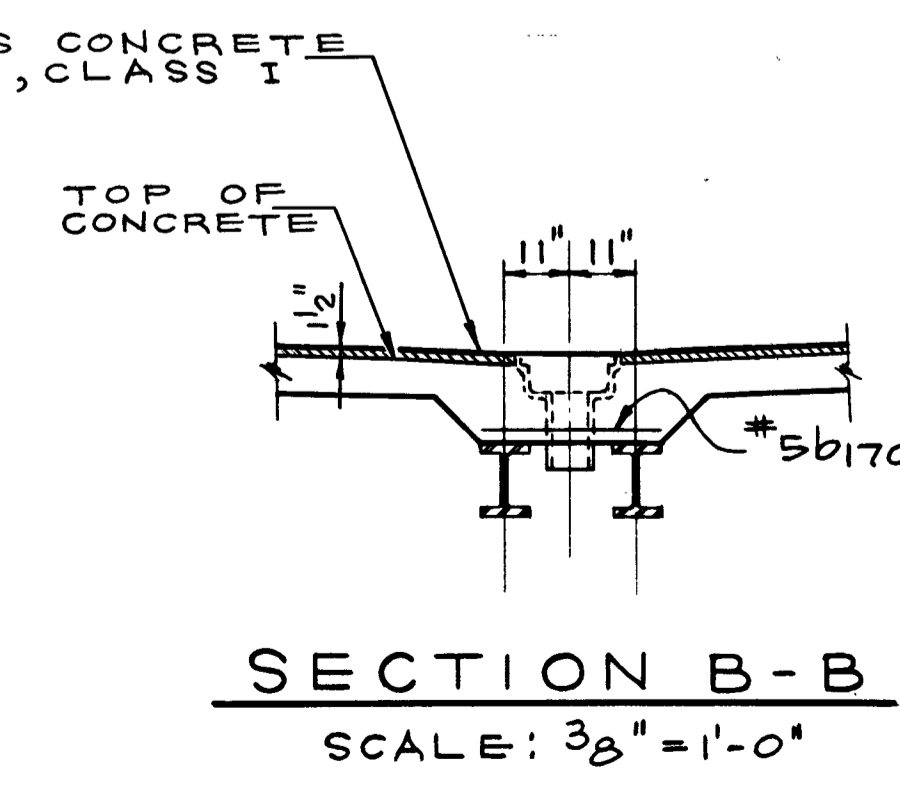
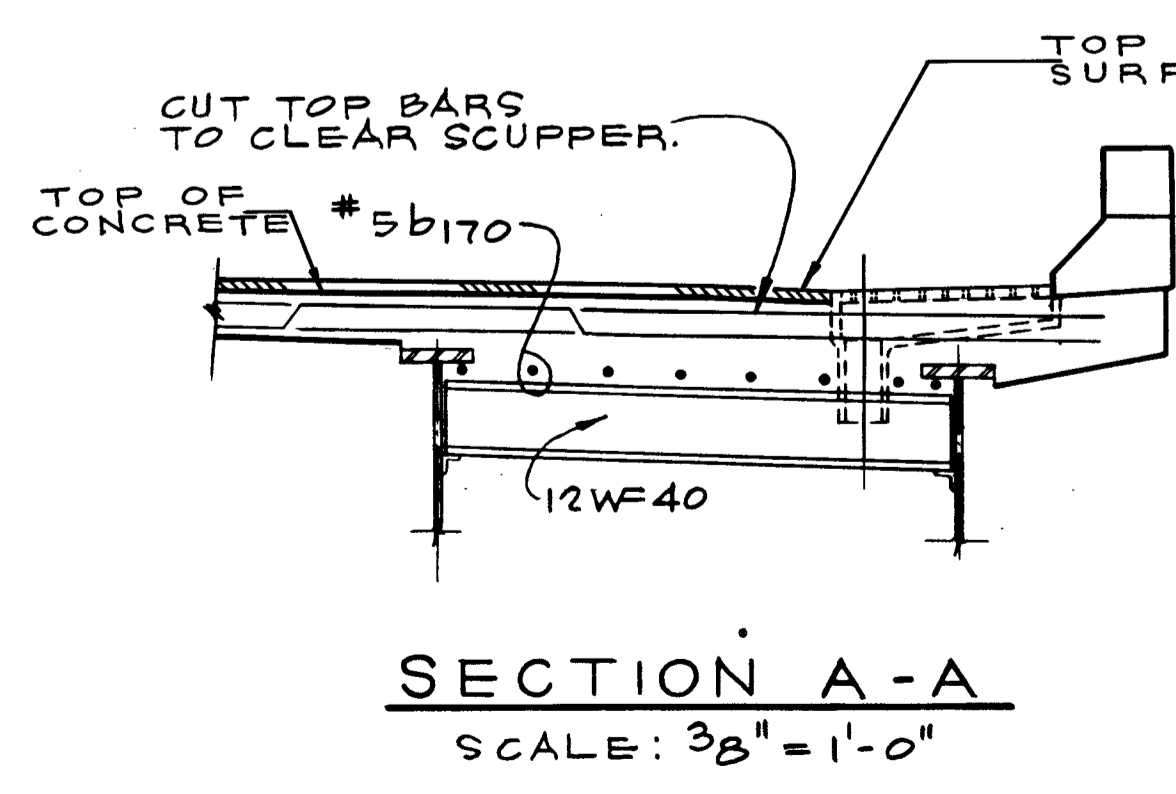
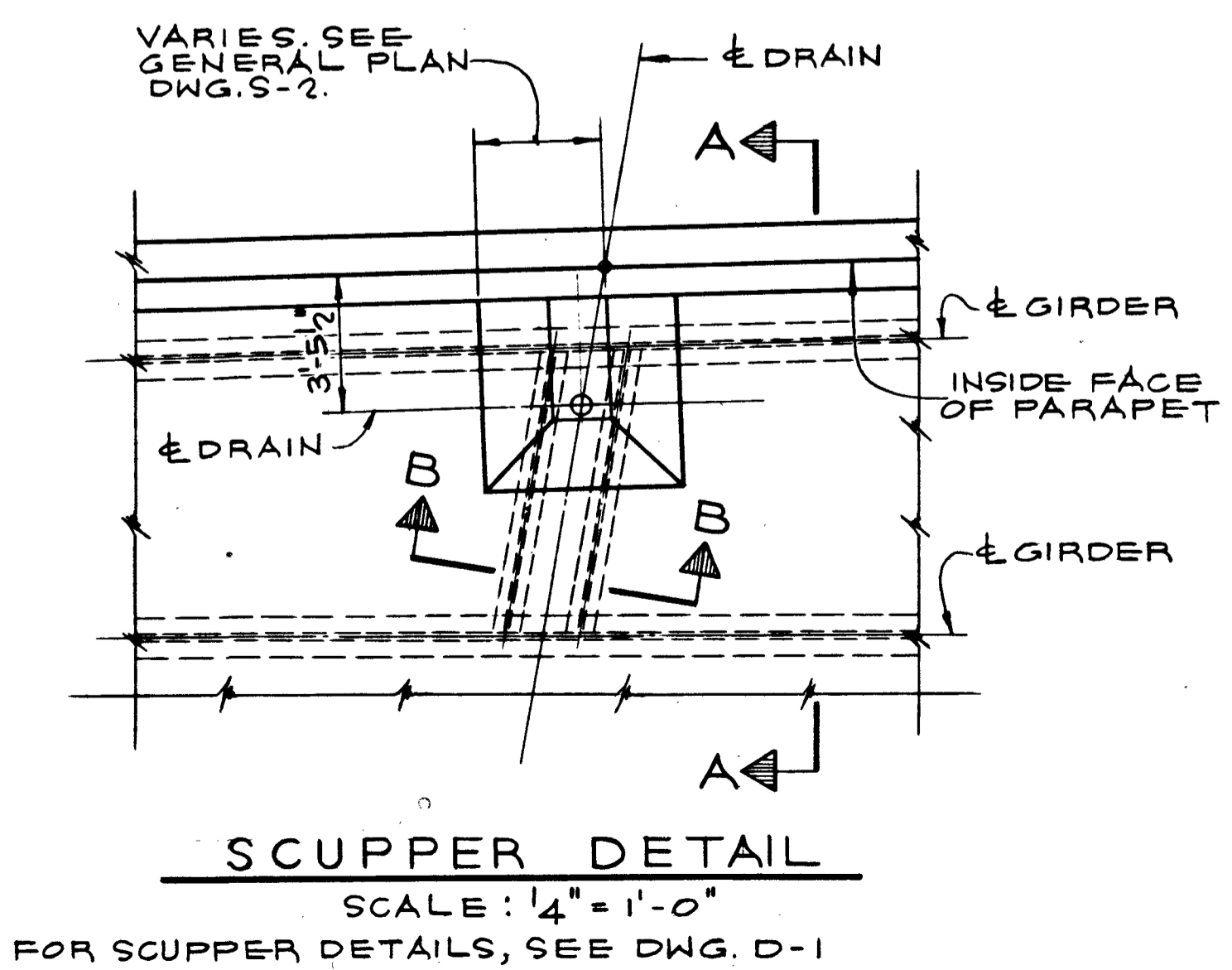
TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB ALONG CENTER LINE OF GIRDERS.

NORMAL OFFSETS FOR GIRDERS G-39 THROUGH G-42 ARE MEASURED FROM RAMP 3-N PROFILE GRADE LINE. NORMAL OFFSETS FOR GIRDERS G-43 THROUGH G-49 ARE MEASURED FROM NORTHBOUND F.A.I.-74 PROFILE GRADE LINE.

NEGATIVE OFFSETS PERTAIN TO POINTS EAST OF THE PROFILE GRADE LINE. POSITIVE OFFSETS PERTAIN TO POINTS WEST OF THE PROFILE GRADE LINE.

POSITIVE DEFLECTIONS INDICATE DOWNWARD DEFLECTIONS. NEGATIVE DEFLECTIONS INDICATE UPWARD DEFLECTIONS.

LOCATION	NUMBER OF #170 BARS
PIER 8NB	6
PIER 9NB	7
PIER 10NB	8
PIER 8SB	8
PIER 9SB	8
PIER 10SB	8
SPAN 10-IISB	8
PIER 8N-3	8
PIER 9N-3	8
PIER 10N-3	8
PIER 11N-3	8



**DRAIN HOLES AT CURB JOINTS (TYPICAL)**

DRAIN HOLES SHALL BE PROVIDED IN THE DECK AT THE BASE OF ALL ALUMINUM SHEETED JOINTS IN THE CURB OR PARAPET ON THE LOW SIDE OF THE DECK.

DECK ELEVATIONS - UNIT "C" - NB  
AND MISC. DETAILS  
F.A.I. 74 - SECTION 81-IHVB

MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+00

SCALE: AS NOTED DATE:

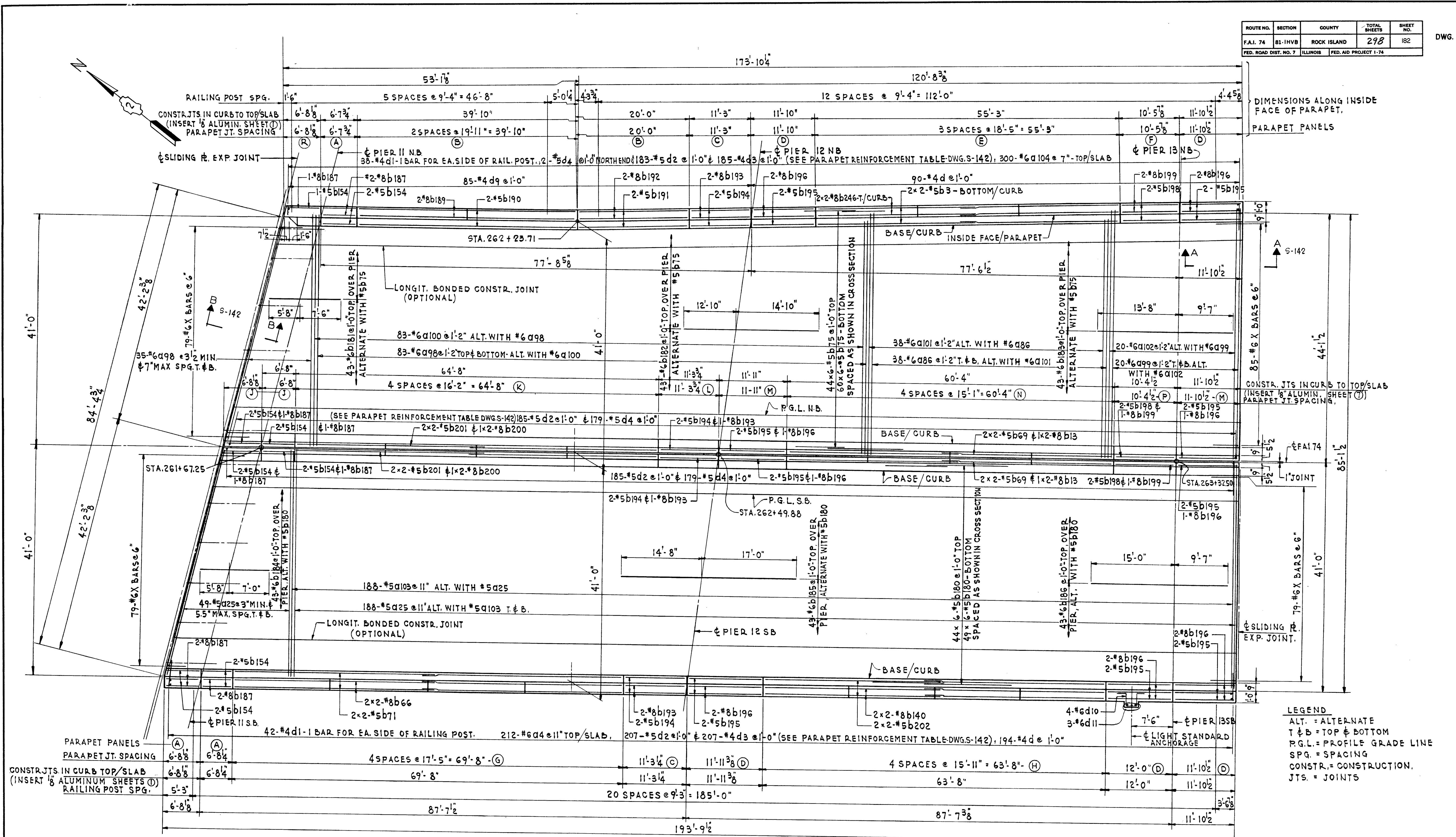
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY J.A. BARRAZA  
DRAWN BY G. PALLEMAN  
CHECKED J. Hernandez  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

	GIRDER G 226					GIRDER G 227					GIRDER G 228					GIRDER G 229				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8 (EXP. BRG. TO PIER 8)	0.00	-4.000	607.978	0.009	607.987	0.00	3.957	608.217	0.000	608.217	0.00	11.248	608.435	-0.001	608.434	0.00	18.539	608.654	0.000	608.654
	10.00	-4.240	607.923	0.021	607.945	10.00	3.638	608.159	0.017	608.176	10.00	10.930	608.378	0.017	608.395	10.00	18.223	608.597	0.018	608.616
	20.00	-4.416	607.869	0.031	607.901	20.00	3.384	608.104	0.030	608.134	20.00	10.677	608.323	0.031	608.354	20.00	17.970	608.542	0.033	608.575
	30.00	-4.525	607.818	0.035	607.853	30.00	3.195	608.050	0.037	608.087	30.00	10.489	608.270	0.039	608.309	30.00	17.783	608.489	0.041	608.531
	40.00	-4.569	607.768	0.032	607.801	40.00	3.071	607.999	0.036	608.035	40.00	10.365	608.218	0.040	608.259	40.00	17.660	608.438	0.042	608.480
	50.00	-4.548	607.721	0.024	607.745	50.00	3.013	607.949	0.030	607.979	50.00	10.307	608.169	0.035	608.204	50.00	17.660	608.438	0.042	608.480
	60.00	-4.460	607.675	0.012	607.688	60.00	3.020	607.901	0.019	607.921	60.00	10.314	608.121	0.026	608.147	60.00	17.608	608.342	0.027	608.369
	70.00	-4.308	607.632	0.001	607.633	70.00	3.092	607.855	0.009	607.865	70.00	10.385	608.076	0.016	608.093	70.00	17.679	608.296	0.017	608.314
	83.41	-4.000	607.576	-0.005	607.571	83.83	3.299	607.795	0.005	607.800	84.23	10.599	608.014	0.013	608.027	84.62	17.899	608.233	0.013	608.246
	SPAN 8-9	0.00	-4.000	607.576	-0.005	607.571	0.00	3.299	607.795	0.005	607.800	0.00	10.599	608.014	0.013	608.027	0.00	17.899	608.233	0.013
10.00		-4.288	607.520	-0.007	607.512	10.00	3.010	607.739	0.005	607.744	10.00	10.310	607.958	0.013	607.972	10.00	17.610	608.177	0.013	608.191
20.00		-4.512	607.465	-0.003	607.462	20.00	2.786	607.684	0.012	607.697	20.00	10.086	607.904	0.020	607.925	20.00	17.385	608.123	0.020	608.143
30.00		-4.670	607.412	0.004	607.416	30.00	2.628	607.632	0.022	607.654	30.00	9.927	607.851	0.030	607.882	30.00	17.225	608.071	0.029	608.101
40.00		-4.762	607.361	0.011	607.373	40.00	2.535	607.581	0.031	607.612	40.00	9.832	607.801	0.039	607.840	40.00	17.130	608.021	0.037	608.058
50.00		-4.788	607.312	0.015	607.328	50.00	2.507	607.532	0.035	607.568	50.00	9.803	607.752	0.042	607.795	50.00	17.099	607.972	0.041	608.014
60.00		-4.749	607.265	0.015	607.280	60.00	2.544	607.485	0.034	607.520	60.00	9.839	607.706	0.041	607.747	60.00	17.133	607.926	0.039	607.966
70.00		-4.644	607.220	0.011	607.231	70.00	2.647	607.441	0.028	607.469	70.00	9.939	607.661	0.034	607.695	70.00	17.232	607.881	0.033	607.914
80.00		-4.474	607.177	0.004	607.182	80.00	2.815	607.398	0.018	607.416	80.00	10.105	607.618	0.024	607.643	80.00	17.395	607.839	0.023	607.869
98.08		-3.999	607.104	-0.004	607.100	97.77	3.275	607.326	0.006	607.332	97.47	10.336	607.577	0.014	607.592	97.17	17.624	607.798	0.014	607.813
SPAN 9-10	0.00	-3.999	607.104	-0.004	607.100	0.00	3.275	607.326	0.006	607.332	0.00	10.551	607.548	0.011	607.559	0.00	17.827	607.770	0.011	607.781
	10.00	-4.256	607.051	-0.004	607.047	10.00	3.022	607.269	0.005	607.275	10.00	10.301	607.490	0.010	607.500	10.00	17.581	607.713	0.009	607.722
	20.00	-4.448	607.006	-0.000	607.005	20.00	2.833	607.211	0.009	607.220	20.00	10.116	607.418	0.013	607.431	20.00	17.399	607.627	0.012	607.640
	30.00	-4.573	606.963	0.003	606.966	30.00	2.710	607.154	0.013	607.167	30.00	9.996	607.348	0.017	607.366	30.00	17.282	607.544	0.016	607.560
	40.00	-4.634	606.922	0.005	606.927	40.00	2.652	607.100	0.015	607.115	40.00	9.940	607.280	0.019	607.300	40.00	17.229	607.463	0.017	607.481
	50.00	-4.628	606.883	0.003	606.887	50.00	2.660	607.047	0.013	607.060	50.00	9.950	607.214	0.018	607.232	50.00	17.242	607.383	0.016	607.400
	60.00	-4.557	606.845	-0.000	606.845	60.00	2.733	606.995	0.008	607.004	60.00	10.025	607.149	0.013	607.163	60.00	17.319	607.305	0.012	607.317
	70.00	-4.420	606.808	-0.005	606.803	70.00	2.871	606.945	0.003	606.948	70.00	10.165	607.085	0.008	607.094	70.00	17.461	607.228	0.007	607.236
	80.00	-4.238	606.771	-0.008	606.763	80.00	3.060	606.895	-0.000	606.894	80.00	10.360	607.021	0.006	607.028	80.00	17.661	607.151	0.006	607.157
	92.91	-3.999	606.723	-0.005	606.718	92.37	3.299	606.831	0.005	606.836	91.82	10.599	606.944	0.013	606.957	91.28	17.899	607.062	0.013	607.075
SPAN 10-11 (PIER 10 TO EXP. BRG.)	0.00	-3.999	606.723	-0.005	606.718	0.00	3.299	606.831	0.005	606.836	0.00	10.599	606.944	0.013	606.957	0.00	17.899	607.062	0.013	607.075
	10.00	-3.999	606.683	0.008	606.691	10.00	3.299	606.777	0.019	606.796	10.00	10.599	606.876	0.025	606.902	10.00	17.898	606.980	0.025	607.006
	20.00	-3.999	606.642	0.027	606.669	20.00	3.299	606.723	0.038	606.761	20.00	10.599	606.808	0.043	606.852	20.00	17.898	606.898	0.043	606.942
	30.00	-3.999	606.602	0.046	606.648	30.00	3.299	606.669	0.058	606.727	30.00	10.599	606.740	0.062	606.803	30.00	17.898	606.816	0.062	606.878
	40.00	-3.999	606.561	0.061	606.623	40.00	3.299	606.614	0.074	606.689	40.00	10.599	606.672	0.077	606.749	40.00	17.898	606.734	0.076	606.811
	50.00	-3.999	606.521	0.070	606.592	50.00	3.299	606.560	0.083	606.644	50.00	10.599	606.604	0.084	606.689	50.00	17.898	606.652	0.084	606.736
	60.00	-4.000	606.480	0.072	606.553	60.00	3.299	606.506	0.082	606.589	60.00	10.599	606.536	0.082	606.619	60.00	17.898	606.570	0.082	606.652
	70.00	-4.000	606.440	0.065	606.505	70.00	3.299	606.451	0.072	606.524	70.00	10.599	606.468	0.071	606.539	70.00	17.898	606.488	0.070	606.559
	80.00	-4.000	606.400	0.050	606.450	80.00	3.299	606.397	0.052	606.450	80.00	10.599	606.393	0.050	606.449	80.00	17.898	606.406	0.049	606.456
	97.84	-4.000	606.360	0.029	606.389	97.72	3.299	606.343	0.024	606.389	97.60	10.599	606.330	0.022	606.353	97.49	17.898	606.322	0.022	606.344

	GIRDER G 230					GIRDER G 231				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 7-8 (EXP. BRG. TO PIER 8)	0.00	25.830	608.873	0.000	608.873	0.00	32.50	609.073	0.000	609.073
	10.00	25.515	608.816	0.018	608.835	10.00	32.50	609.026	0.016	609.042
	20.00	25.263	608.761	0.032	608.794	20.00	32.50	608.979	0.028	609.007
	30.00	25.076	608.709	0.040	608.749	30.00	32.50	608.932	0.034	608.966
	40.00	24.954	608.658	0.040	608.699	40.00	32.50	608.885	0.039	608.919
	50.00	24.894	608.609	0.034	608.643	50.00	32.50	608.838	0.027	608.865
	60.00	24.902	608.562	0.023	608.585	60.00	32.50	608.791	0.016	608.807
	70.00	24.972	608.517	0.012	608.529	70.00	32.50	608.744	0.004	608.748
	80.00	25.107	608.473	0.005	608.479	80.00	32.50	608.697	-0.003	608.694
	85.02	25.199	608.452	0.005	608.457	85.40	32.50	608.672	-0.005	608.667
SPAN 8-9	0.00	25.199	608.452	0.005	608.457	0.00	32.50	608.672	-0.005	608.667
	10.00	24.910	608.397	0.006	608.403	10.00	32.50	608.625	-0.003	608.622
	20.00	24.685	608.343	0.014	608.357	20.00	32.50	608.578	0.003	608.581
	30.00	24.524	608.291	0.025	608.316	30.00	32.50	608.531	0.013	608.544
	40.00	24.427	608.240	0.033	608.274	40.00	32.50	608.484	0.021	608.505
	50.00	24.395	608.192	0.037	608.230	50.00	32.50	608.437	0.024	608.461
	60.00	24.428	608.146	0.035	608.181	60.00	32.50	608.390	0.022	608.412
	70.00	24.524	608.102	0.027	608.130	70.00	32.50	608.343	0.016	608.359
	80.00	24.686	608.059	0.017	608.077	80.00	32.50	608.296	0.007	608.303
	96.86	24.911	608.019	0.007	608.026	96.55	32.50	608.249	-0.001	608.248
SPAN 9-10	0.00	25.104	607.992	0.004	607.996	0.00	32.50	608.218	-	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	182
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. 5-141



PLAN  
SCALE: 1/8" = 1'-0"

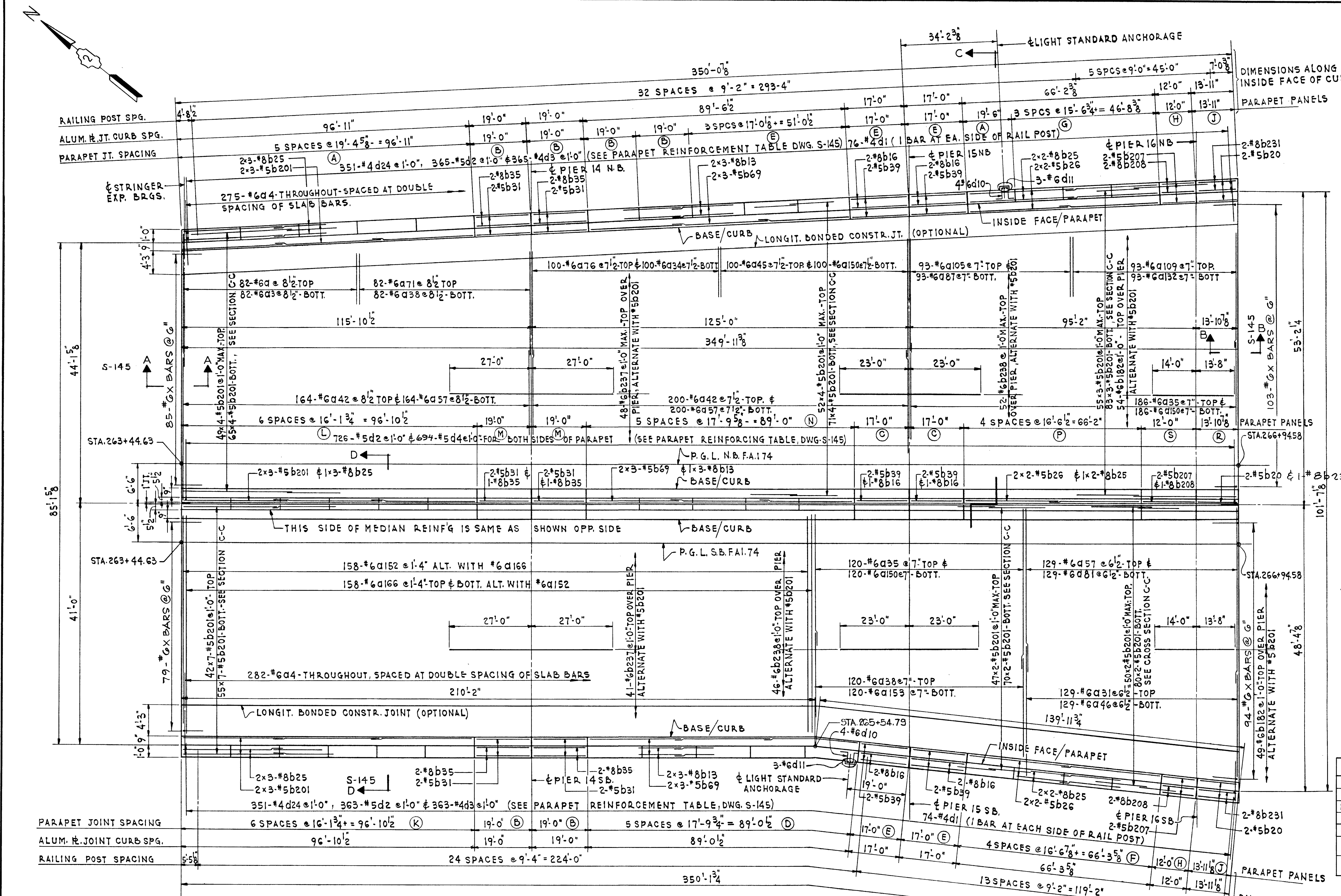
LEGEND  
 ALT. = ALTERNATE  
 T & B = TOP & BOTTOM  
 P.G.L. = PROFILE GRADE LINE  
 SPG. = SPACING  
 CONSTR. = CONSTRUCTION  
 JTS. = JOINTS

NOTE:  
 FOR DETAILS OF 1/8 ALUMINUM SHEETS  
 SEE DWG. S-139.

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY K.J. BOW  
 DRAWN BY A. BUKOKAS  
 CHECKED K.J. BOW  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

DECK SLAB-UNIT "D"  
 F.A.I. 74-SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265+20  
 SCALE: AS NOTED DATE:

	GIRDER G 50					GIRDER G 51					GIRDER G 52					GIRDER G 53				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 10-11 (EXP. BRG. TO PIER 11)	0.00	32.500	605.566	0.000	605.566	0.00	27.040	605.761	0.000	605.761	0.00	18.604	605.967	0.000	605.967	0.00	10.163	606.115	0.000	606.115
	7.54	32.570	605.539	0.008	605.547	7.52	27.041	605.739	0.003	605.742	7.52	18.604	605.939	-0.001	605.938	7.64	10.593	606.077	0.000	606.077
SPAN 11-12	0.00	32.570	605.539	0.008	605.547	0.00	27.041	605.739	0.003	605.742	0.00	18.604	605.939	-0.001	605.938	0.00	10.593	606.077	0.000	606.077
	10.00	32.664	605.503	0.013	605.517	10.00	27.041	605.705	0.011	605.717	10.00	18.604	605.903	0.009	605.912	10.00	10.593	606.035	0.010	606.046
	20.00	32.758	605.468	0.020	605.488	20.00	27.041	605.672	0.020	605.692	20.00	18.604	605.866	0.019	605.886	20.00	10.593	605.994	0.021	606.015
	30.00	32.852	605.435	0.025	605.460	30.00	27.041	605.640	0.025	605.666	30.00	18.604	605.830	0.027	605.857	30.00	10.593	605.952	0.028	605.981
	40.00	32.945	605.403	0.026	605.430	40.00	27.041	605.609	0.027	605.636	40.00	18.604	605.793	0.029	605.822	40.00	10.593	605.911	0.030	605.942
	50.00	33.039	605.372	0.024	605.396	50.00	27.041	605.577	0.023	605.601	50.00	18.604	605.757	0.024	605.781	50.00	10.593	605.863	0.026	605.896
	60.00	33.133	605.340	0.019	605.360	60.00	27.041	605.546	0.016	605.562	60.00	18.604	605.720	0.015	605.736	60.00	10.593	605.828	0.017	605.845
	70.00	33.227	605.309	0.014	605.324	70.00	27.041	605.514	0.008	605.523	70.00	18.604	605.684	0.004	605.689	70.00	10.593	605.786	0.006	605.793
77.96	33.354	605.283	0.013	605.296	78.54	27.041	605.487	0.005	605.492	79.57	18.604	605.649	-0.002	605.647	80.54	10.593	605.743	-0.002	605.741	
SPAN 12-13	0.00	33.354	605.283	0.013	605.296	0.00	27.041	605.487	0.005	605.492	0.00	18.604	605.649	-0.002	605.647	0.00	10.593	605.743	-0.002	605.741
	10.00	33.560	605.249	0.010	605.260	10.00	27.041	605.456	0.004	605.460	10.00	18.604	605.612	-0.001	605.611	10.00	10.593	605.701	-0.001	605.700
	20.00	33.819	605.213	0.011	605.225	20.00	27.041	605.425	0.006	605.431	20.00	18.604	605.576	0.001	605.578	20.00	10.593	605.660	0.002	605.663
	30.00	34.078	605.178	0.011	605.190	30.00	27.041	605.393	0.008	605.402	30.00	18.604	605.539	0.004	605.544	30.00	10.593	605.618	0.006	605.625
	40.00	34.337	605.144	0.010	605.154	40.00	27.041	605.362	0.008	605.371	40.00	18.604	605.503	0.006	605.509	40.00	10.593	605.577	0.007	605.585
	50.00	34.596	605.107	0.007	605.114	50.00	27.041	605.326	0.006	605.332	50.00	18.604	605.463	0.004	605.467	50.00	10.593	605.534	0.005	605.540
	60.00	34.855	605.068	0.003	605.071	60.00	27.041	605.283	0.002	605.285	60.00	18.604	605.415	0.000	605.416	60.00	10.593	605.486	0.002	605.488
	70.00	35.113	605.029	0.000	605.030	70.00	27.041	605.239	0.000	605.239	70.00	18.604	605.367	-0.002	605.364	70.00	10.593	605.438	-0.001	605.436
77.80	35.316	605.000	0.001	605.001	78.54	27.041	605.202	0.001	605.203	79.56	18.604	605.321	-0.002	605.319	80.54	10.593	605.388	-0.002	605.386	
SPAN 13-14 (PIER 13 TO EXP. BRG.)	0.00	35.316	605.000	0.001	605.001	0.00	27.041	605.202	0.001	605.203	0.00	18.604	605.321	-0.002	605.319	0.00	10.593	605.388	-0.002	605.386
	12.75	35.640	604.954	0.011	604.965	12.75	27.220	605.143	0.009	605.152	12.75	18.800	605.259	0.009	605.268	12.76	10.200	605.330	0.009	605.339
SPAN 10-11 (EXP. BRG. TO PIER 11)	0.00	3.083	606.242	0.000	606.242	0.00	-4.000	606.370	0.000	606.370	0.00	4.000	606.328	0.011	606.339	0.00	-3.300	606.300	0.003	606.303
	7.52	3.083	606.207	0.000	606.207	7.52	-3.999	606.332	0.000	606.332	7.52	3.999	606.298	0.011	606.309	7.52	-3.300	606.259	0.003	606.262
SPAN 11-12	0.00	3.083	606.207	0.000	606.207	0.00	-3.999	606.332	0.000	606.332	0.00	3.999	606.298	0.011	606.309	0.00	-3.300	606.259	0.003	606.262
	10.00	3.083	606.161	0.011	606.172	10.00	-3.999	606.291	0.011	606.292	10.00	3.999	606.252	0.016	606.274	10.00	-3.300	606.205	0.012	606.217
	20.00	3.083	606.115	0.023	606.138	20.00	-3.999	606.231	0.022	606.253	20.00	3.999	606.209	0.023	606.232	20.00	-3.300	606.157	0.021	606.179
	30.00	3.083	606.069	0.031	606.100	30.00	-3.999	606.180	0.031	606.211	30.00	4.000	606.211	0.026	606.188	30.00	-3.300	606.109	0.027	606.137
	40.00	3.083	606.023	0.034	606.057	40.00	-3.999	606.130	0.035	606.165	40.00	4.000	606.113	0.026	606.139	40.00	-3.300	606.061	0.029	606.090
	50.00	3.083	605.977	0.031	606.008	50.00	-3.999	606.079	0.033	606.113	50.00	4.000	606.065	0.022	606.087	50.00	-3.300	606.013	0.025	606.038
	60.00	3.083	605.931	0.023	605.954	60.00	-3.999	606.029	0.028	606.057	60.00	4.000	606.017	0.015	606.032	60.00	-3.300	605.965	0.017	605.983
	70.00	3.083	605.884	0.013	605.897	70.00	-3.999	605.978	0.021	605.999	70.00	4.000	605.969	0.006	605.976	70.00	-3.299	605.917	0.008	605.925
81.46	3.083	605.832	0.004	605.836	82.32	-3.999	605.916	0.014	605.930	82.93	4.000	605.907	0.000	605.907	83.82	-3.299	605.850	0.000	605.850	
SPAN 12-13	0.00	3.083	605.832	0.004	605.836	0.00	-3.999	605.916	0.014	605.930	0.00	4.000	605.907	0.000	605.907	0.00	-3.299	605.850	0.000	605.850
	10.00	3.083	605.785	0.005	605.791	10.00	-3.999	605.866	0.015	605.881	10.00	4.000	605.859	0.000	605.859	10.00	-3.299	605.802	0.000	605.803
	20.00	3.083	605.739	0.009	605.749	20.00	-3.999	605.815	0.018	605.834	20.00	4.000	605.811	0.003	605.815	20.00	-3.299	605.754	0.005	605.760
	30.00	3.083	605.693	0.012	605.706	30.00	-3.999	605.765	0.021	605.786	30.00	4.000	605.763	0.008	605.771	30.00	-3.299	605.706	0.011	605.718
	40.00	3.083	605.647	0.014	605.661	40.00	-3.999	605.714	0.022	605.736	40.00	4.000	605.715	0.011	605.727	40.00	-3.299	605.658	0.015	605.674
	50.00	3.083	605.601	0.012	605.613	50.00	-3.999	605.664	0.020	605.684	50.00	4.000	605.667	0.012	605.680	50.00	-3.299	605.610	0.016	605.624
	60.00	3.083	605.553	0.008	605.562	60.00	-3.999	605.616	0.016	605.633	60.00	4.000	605.633	0.012	605.631	60.00	-3.299	605.562	0.015	605.578
	70.00	3.083	605.505	0.004	605.509	70.00	-3.999	605.568	0.012	605.580	70.00	4.000	605.571	0.011	605.582	70.00	-3.299	605.514	0.013	605.528
81.45	3.083	605.450	0.003	605.453	82.31	-3.999	605.509	0.010	605.519	82.93	4.000	605.509	0.014	605.523	83.82	-3.300	605.448	0.015	605.463	
SPAN 13-14 (PIER 13 TO EXP. BRG.)	0.00	3.083	605.450	0.003	605.453	0.00	-4.000	605.509	0.010	605.519	0.00	4.000	605.509	0.014	605.523	0.00	-3.300	605.448	0.015	605.463
	12.75	3.100	605.389	0.013	605.402	12.75	-4.000	605.448	0.018	605.466	12.75	4.000	605.448	0.022	605.470	12.75	-3.300	605.387	0.023	605.410
SPAN 10-11 (EXP. BRG. TO PIER 11)	0.00	-10.600	606.278	-0.001	606.277	0.00	-17.900	606.260	-0.001	606.259	0.00	-25.200	606.247	0.000	606.247	0.00	-32.500	606.240	0.001	606.241
	7.52	-10.600	606.226	-0.001	606.225	7.52	-17.900	606.197	-0.001	606.196	7.52	-25.200	606.174	0.000	606.174	7.52	-32.500	606.155	0.001	606.156
SPAN 11-12	0.00	-10.600	606.226	-0.001	606.225	0.00	-17.900	606.197	-0.001	606.196	0.00	-25.200	606.174	0.000	606.174	0.00	-32.500	606.155	0.001	606.156
	10.00	-10.600	606.187	0.009	606.166	10.00	-17.900	606.114	0.010	606.124	10.00	-25.200	606.076	0.012	606.088	10.00	-32.500	606.043	0.013	606.057
	20.00	-10.600	606.105	0.019	606.125	20.00	-17.900	606.055	0.021	606.074	20.00	-25.200	606.001	0.024	606.025	20.00	-32.500	605.949	0.026	605.975
	30.00	-10.600	606.057	0.027	606.084	30.00	-17.900	606.005	0.029	606.034	30.00	-25.200	605.953	0.033	605.986	30.00	-32.500	605.901	0.035	605.937
	40.00	-10.600	606.009	0.029	606.038	40.00	-17.900	605.9												



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	187
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-146

	GIRDER G-56					GIRDER G-57					GIRDER G-58					GIRDER G-59					
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	
SPAN 13-14 (EXP. BRG. TO PIER 14)	0.00	35.640	604.954	0.010	604.965	0.00	31.521	605.047	0.010	605.057	0.00	24.416	605.206	0.009	605.215	0.00	17.312	605.271	0.009	605.280	
	10.00	35.899	604.917	0.035	604.952	10.00	31.521	605.009	0.039	605.048	10.00	24.416	605.158	0.038	605.197	10.00	17.312	605.223	0.038	605.261	
	20.00	36.158	604.879	0.059	604.939	20.00	31.521	604.971	0.068	605.039	20.00	24.416	605.111	0.068	605.179	20.00	17.312	605.175	0.067	605.242	
	30.00	36.417	604.842	0.074	604.916	30.00	31.521	604.932	0.086	605.018	30.00	24.416	605.063	0.085	605.149	30.00	17.312	605.127	0.084	605.211	
	40.00	36.676	604.805	0.085	604.890	40.00	31.521	604.894	0.097	604.992	40.00	24.416	605.016	0.096	605.113	40.00	17.312	605.079	0.095	605.174	
	50.00	36.935	604.769	0.089	604.858	50.00	31.521	604.855	0.101	604.957	50.00	24.416	604.968	0.100	605.069	50.00	17.312	605.031	0.098	605.130	
	60.00	37.193	604.733	0.082	604.816	60.00	31.521	604.817	0.091	604.909	60.00	24.416	604.921	0.089	605.011	60.00	17.312	604.983	0.088	605.071	
	70.00	37.452	604.697	0.074	604.772	70.00	31.521	604.777	0.081	604.859	70.00	24.416	604.873	0.078	604.952	70.00	17.312	604.935	0.077	605.012	
	80.00	37.711	604.662	0.059	604.721	80.00	31.521	604.738	0.061	604.799	80.00	24.416	604.826	0.057	604.983	80.00	17.312	604.897	0.056	604.943	
	90.00	37.970	604.627	0.043	604.670	90.00	31.521	604.699	0.040	604.740	90.00	24.416	604.778	0.036	604.815	90.00	17.312	604.839	0.035	604.874	
	100.00	38.229	604.592	0.031	604.624	100.00	31.521	604.660	0.025	604.685	100.00	24.416	604.731	0.020	604.751	100.00	17.312	604.791	0.019	604.810	
	110.00	38.488	604.555	0.021	604.577	110.00	31.521	604.618	0.012	604.630	110.00	24.416	604.683	0.006	604.689	110.00	17.312	604.743	0.005	604.748	
	115.28	38.625	604.533	0.016	604.550	115.24	31.521	604.596	0.005	604.601	115.24	24.416	604.658	-0.001	604.657	115.24	17.312	604.717	-0.002	604.715	
SPAN 14-15	0.00	38.625	604.533	0.016	604.550	0.00	31.521	604.596	0.005	604.601	0.00	24.416	604.658	-0.001	604.657	0.00	17.312	604.717	-0.002	604.715	
	10.00	38.885	604.493	0.023	604.517	10.00	31.737	604.551	0.011	604.563	10.00	24.590	604.609	0.004	604.614	10.00	17.442	604.668	0.003	604.672	
	20.00	39.144	604.453	0.030	604.484	20.00	31.954	604.507	0.018	604.525	20.00	24.763	604.560	0.010	604.571	20.00	17.572	604.619	0.009	604.629	
	30.00	39.404	604.414	0.034	604.445	30.00	32.170	604.463	0.029	604.482	30.00	24.936	604.512	0.020	604.532	30.00	17.702	604.670	0.019	604.689	
	40.00	39.664	604.374	0.054	604.429	40.00	32.387	604.419	0.043	604.462	40.00	25.109	604.463	0.034	604.498	40.00	17.832	604.521	0.033	604.554	
	50.00	39.924	604.325	0.067	604.392	50.00	32.603	604.369	0.057	604.427	50.00	25.283	604.414	0.048	604.463	50.00	17.962	604.472	0.046	604.519	
	60.00	40.184	604.275	0.071	604.346	60.00	32.820	604.320	0.061	604.381	60.00	25.456	604.365	0.052	604.418	60.00	18.092	604.423	0.050	604.474	
	70.00	40.444	604.225	0.075	604.300	70.00	33.037	604.270	0.065	604.336	70.00	25.629	604.316	0.057	604.373	70.00	18.222	604.374	0.055	604.429	
	80.00	40.704	604.175	0.070	604.245	80.00	33.253	604.221	0.061	604.282	80.00	25.803	604.267	0.053	604.320	80.00	18.352	604.325	0.051	604.376	
	90.00	40.964	604.125	0.059	604.185	90.00	33.470	604.171	0.049	604.221	90.00	25.976	604.218	0.041	604.260	90.00	18.482	604.276	0.040	604.316	
	100.00	41.224	604.075	0.048	604.124	100.00	33.686	604.122	0.038	604.160	100.00	26.149	604.169	0.030	604.199	100.00	18.612	604.227	0.028	604.255	
	110.00	41.483	604.025	0.036	604.061	110.00	33.903	604.072	0.024	604.097	110.00	26.322	604.119	0.017	604.137	110.00	18.742	604.178	0.016	604.194	
	120.00	41.743	603.975	0.023	603.999	120.00	34.120	604.023	0.011	604.035	120.00	26.496	604.070	0.004	604.075	120.00	18.872	604.129	0.003	604.132	
125.04	41.874	603.950	0.017	603.967	125.02	34.229	603.998	0.005	604.003	125.01	26.583	604.046	-0.001	604.044	125.01	18.997	604.104	-0.002	604.101		
SPAN 15-16	0.00	41.874	603.948	0.017	603.965	0.00	34.229	603.996	0.005	604.002	0.00	26.583	604.045	-0.001	604.044	0.00	18.937	604.104	-0.002	604.101	
	10.00	42.134	603.898	0.019	603.918	10.00	34.445	603.947	0.008	603.955	10.00	26.756	603.996	0.001	603.998	10.00	19.067	604.055	0.000	604.055	
	20.00	42.393	603.848	0.022	603.870	20.00	34.661	603.898	0.011	603.909	20.00	26.929	603.947	0.004	603.952	20.00	19.196	604.006	0.003	604.009	
	30.00	42.652	603.799	0.026	603.825	30.00	34.877	603.848	0.015	603.864	30.00	27.101	603.898	0.008	603.907	30.00	19.326	603.957	0.008	603.965	
	40.00	42.912	603.751	0.031	603.782	40.00	35.093	603.801	0.020	603.821	40.00	27.274	603.851	0.014	603.865	40.00	19.456	603.909	0.013	603.922	
	50.00	43.171	603.735	0.033	603.769	50.00	35.309	603.766	0.023	603.809	50.00	27.447	603.836	0.017	603.853	50.00	19.585	603.868	0.016	603.905	
	60.00	43.430	603.719	0.031	603.751	60.00	35.525	603.771	0.020	603.791	60.00	27.620	603.822	0.013	603.836	60.00	19.715	603.868	0.012	603.881	
	70.00	43.690	603.697	0.029	603.727	70.00	35.741	603.751	0.017	603.769	70.00	27.793	603.806	0.010	603.816	70.00	19.845	603.848	0.009	603.858	
	80.00	43.949	603.667	0.025	603.693	80.00	35.958	603.728	0.012	603.741	80.00	27.966	603.788	0.005	603.794	80.00	19.975	603.828	0.004	603.833	
	90.00	44.208	603.637	0.022	603.660	90.00	36.174	603.704	0.008	603.712	90.00	28.139	603.770	0.000	603.771	90.00	20.104	603.809	-0.001	603.808	
	95.20	44.343	603.621	0.021	603.642	95.19	36.286	603.691	0.006	603.697	95.18	28.229	603.761	-0.002	603.759	95.17	20.171	603.799	-0.004	603.795	
	SPAN 16-17 (PIER 16 TO EXP BRG.)	0.00	44.343	603.621	0.021	603.642	0.00	36.286	603.691	0.006	603.697	0.00	28.229	603.761	-0.002	603.759	0.00	20.171	603.799	-0.004	603.795
		10.00	44.597	603.590	0.028	603.619	10.00	36.498	603.666	0.015	603.682	10.00	28.398	603.743	0.004	603.747	10.00	20.299	603.780	0.001	603.782
14.75		44.718	603.575	0.031	603.607	14.75	36.599	603.655	0.019	603.674	14.75	28.479	603.734	0.007	603.741	14.75	20.359	603.771	0.004	603.776	
SPAN 13-14 (EXP BRG. TO PIER 14)	0.00	10.208	605.330	0.009	605.339	0.00	3.104	605.389	0.013	605.402	0.00	-4.000	605.448	0.018	605.466	0.00	10.208	605.330	0.009	605.339	
	10.00	10.208	605.282	0.038	605.320	10.00	3.104	605.341	0.042	605.383	10.00	-4.000	605.400	0.043	605.443	10.00	10.208	605.282	0.038	605.320	
	20.00	10.208	605.234	0.068	605.302	20.00	3.104	605.293	0.071	605.364	20.00	-4.000	605.352	0.069	605.421	20.00	10.208	605.234	0.068	605.302	
	30.00	10.208	605.186	0.085	605.271	30.00	3.104	605.245	0.083	605.333	30.00	-4.000	605.304	0.084	605.388	30.00	10.208	605.186	0.085	605.271	
	40.00	10.208	605.138	0.096	605.234	40.00	3.104	605.197	0.100	605.297	40.00	-4.000	605.256	0.095	605.351	40.00	10.208	605.138	0.096	605.234	
	50.00	10.208	605.090	0.099	605.189	50.00	3.104	605.149	0.103	605.252	50.00	-4.000	605.208	0.098	605.306	50.00	10.208	605.090	0.099	605.189	
	60.00	10.208	605.042	0.089	605.131	60.00	3.104	605.101	0.093	605.194	60.00	-4.000	605.160	0.090	605.250	60.00	10.208	605.042	0.089	605.131	
	70.00	10.208	604.994	0.078	605.072	70.00	3.104	605.053	0.083	605.136	70.00	-4.000	605.112	0.081	605.193	70.00	10.208	604.994	0.078	605.072	
	80.00	10.208	604.946	0.057	605.003	80.00	3.104	605.005	0.062	605.067	80.00	-4.000	605.064	0.064	605.128	80.00	10.208	604.946	0.057	605.003	
	90.00	10.208	604.898	0.036	604.934	90.00															

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	188
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-147

	GIRDER G-238					GIRDER G-239					GIRDER G-240					GIRDER G-241				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 13-14 (EXP. BRG. TO PIER 14)	0.00	4.000	605.448	0.021	605.469	0.00	-3.302	605.387	0.023	605.410	0.00	-10.604	605.326	0.019	605.345	0.00	-17.906	605.266	0.012	605.278
	10.00	4.000	605.400	0.046	605.446	10.00	-3.302	605.339	0.051	605.391	10.00	-10.604	605.278	0.048	605.327	10.00	-17.906	605.218	0.042	605.260
	20.00	4.000	605.352	0.071	605.423	20.00	-3.302	605.291	0.080	605.372	20.00	-10.604	605.230	0.078	605.309	20.00	-17.906	605.170	0.073	605.243
	30.00	4.000	605.304	0.085	605.389	30.00	-3.302	605.243	0.097	605.340	30.00	-10.604	605.182	0.095	605.278	30.00	-17.906	605.122	0.091	605.213
	40.00	4.000	605.256	0.094	605.350	40.00	-3.302	605.195	0.107	605.303	40.00	-10.604	605.134	0.106	605.241	40.00	-17.906	605.074	0.103	605.177
	50.00	4.000	605.208	0.096	605.304	50.00	-3.302	605.147	0.109	605.257	50.00	-10.604	605.086	0.109	605.196	50.00	-17.906	605.026	0.106	605.132
	60.00	4.000	605.160	0.086	605.246	60.00	-3.302	605.099	0.098	605.198	60.00	-10.604	605.038	0.098	605.137	60.00	-17.906	604.978	0.096	605.074
	70.00	4.000	605.112	0.075	605.187	70.00	-3.302	605.051	0.086	605.137	70.00	-10.604	604.990	0.086	605.077	70.00	-17.906	604.930	0.084	605.014
	80.00	4.000	605.064	0.056	605.120	80.00	-3.302	605.003	0.064	605.067	80.00	-10.604	604.942	0.064	605.007	80.00	-17.906	604.882	0.062	604.944
	90.00	4.000	605.016	0.036	605.052	90.00	-3.302	604.955	0.041	604.997	90.00	-10.604	604.894	0.042	604.936	90.00	-17.906	604.834	0.040	604.874
	100.00	4.000	604.968	0.021	604.989	100.00	-3.302	604.907	0.024	604.932	100.00	-10.604	604.846	0.025	604.871	100.00	-17.906	604.786	0.023	604.809
	110.00	4.000	604.920	0.007	604.927	110.00	-3.302	604.859	0.009	604.868	110.00	-10.604	604.798	0.009	604.808	110.00	-17.906	604.738	0.008	604.746
115.25	4.000	604.894	0.000	604.895	115.24	-3.302	604.834	0.000	604.835	115.24	-10.604	604.773	0.001	604.774	115.24	-17.906	604.712	0.000	604.713	
SPAN 14-15	0.00	4.000	604.894	0.000	604.895	0.00	-3.302	604.834	0.000	604.835	0.00	-10.604	604.773	0.001	604.774	0.00	-17.906	604.712	0.000	604.713
	10.00	4.000	604.846	0.003	604.850	10.00	-3.302	604.786	0.005	604.791	10.00	-10.604	604.725	0.005	604.731	10.00	-17.906	604.664	0.004	604.669
	20.00	4.000	604.798	0.007	604.805	20.00	-3.302	604.738	0.009	604.747	20.00	-10.604	604.677	0.009	604.687	20.00	-17.906	604.616	0.008	604.625
	30.00	4.000	604.750	0.014	604.765	30.00	-3.302	604.690	0.018	604.708	30.00	-10.604	604.629	0.018	604.647	30.00	-17.906	604.568	0.017	604.586
	40.00	4.000	604.702	0.025	604.728	40.00	-3.302	604.642	0.031	604.673	40.00	-10.604	604.581	0.031	604.612	40.00	-17.906	604.520	0.030	604.551
	50.00	4.000	604.654	0.036	604.691	50.00	-3.302	604.594	0.043	604.638	50.00	-10.604	604.533	0.044	604.577	50.00	-17.906	604.472	0.043	604.516
	60.00	4.000	604.606	0.040	604.647	60.00	-3.302	604.546	0.048	604.594	60.00	-10.604	604.485	0.048	604.533	60.00	-17.906	604.424	0.047	604.472
	70.00	4.000	604.558	0.044	604.603	70.00	-3.302	604.498	0.052	604.550	70.00	-10.604	604.437	0.052	604.490	70.00	-17.906	604.376	0.051	604.428
	80.00	4.000	604.510	0.042	604.553	80.00	-3.302	604.450	0.049	604.499	80.00	-10.604	604.389	0.049	604.439	80.00	-17.906	604.316	0.048	604.377
	90.00	4.000	604.462	0.034	604.496	90.00	-3.302	604.402	0.039	604.441	90.00	-10.604	604.341	0.039	604.384	90.00	-17.906	604.280	0.038	604.319
	100.00	4.000	604.414	0.025	604.440	100.00	-3.302	604.354	0.029	604.383	100.00	-10.604	604.293	0.028	604.322	100.00	-17.906	604.232	0.027	604.260
	110.00	4.000	604.366	0.015	604.382	110.00	-3.302	604.306	0.017	604.323	110.00	-10.604	604.245	0.017	604.263	110.00	-17.906	604.184	0.016	604.201
120.00	4.000	604.318	0.005	604.324	120.00	-3.302	604.258	0.006	604.264	120.00	-10.604	604.197	0.006	604.203	120.00	-17.906	604.136	0.005	604.142	
125.00	4.000	604.294	0.000	604.295	124.99	-3.302	604.234	0.000	604.234	124.99	-10.604	604.173	0.000	604.173	124.99	-17.906	604.112	-0.000	604.112	
SPAN 15-16	0.00	4.000	604.294	0.000	604.295	0.00	-3.302	604.234	0.000	604.234	0.00	-10.604	604.173	0.000	604.173	0.00	-17.906	604.112	-0.000	604.112
	10.00	4.000	604.246	0.003	604.250	10.00	-3.302	604.185	0.004	604.189	10.00	-10.604	604.123	0.004	604.127	10.00	-17.906	604.061	0.004	604.065
	20.00	4.000	604.198	0.005	604.204	20.00	-3.302	604.135	0.008	604.144	20.00	-10.604	604.073	0.008	604.081	20.00	-17.906	604.010	0.008	604.018
	30.00	4.000	604.150	0.009	604.160	30.00	-3.302	604.086	0.013	604.099	30.00	-10.604	604.022	0.013	604.036	30.00	-17.906	603.959	0.013	603.972
	40.00	4.000	604.102	0.013	604.116	40.00	-3.302	604.037	0.018	604.056	40.00	-10.604	603.972	0.018	603.991	40.00	-17.906	603.907	0.019	603.926
	50.00	4.000	604.054	0.015	604.070	50.00	-3.302	603.988	0.021	604.010	50.00	-10.604	603.922	0.021	603.944	50.00	-17.906	603.856	0.022	603.878
	60.00	4.000	604.006	0.012	604.019	60.00	-3.302	603.939	0.017	603.957	60.00	-10.604	603.872	0.018	603.890	60.00	-17.906	603.805	0.018	603.823
	70.00	4.000	603.958	0.009	603.968	70.00	-3.302	603.890	0.014	603.904	70.00	-10.604	603.822	0.014	603.836	70.00	-17.906	603.753	0.014	603.767
	80.00	4.000	603.910	0.006	603.917	80.00	-3.302	603.841	0.008	603.850	80.00	-10.604	603.771	0.009	603.780	80.00	-17.906	603.702	0.008	603.710
	90.00	4.000	603.862	0.002	603.865	90.00	-3.302	603.792	0.003	603.795	90.00	-10.604	603.721	0.003	603.724	90.00	-17.906	603.651	0.002	603.653
	95.16	4.000	603.837	0.001	603.838	95.17	-3.302	603.766	0.000	603.767	95.20	-10.604	603.695	0.000	603.695	95.24	-17.906	603.624	-0.000	603.623
	SPAN 16-17 (PIER 16 TO EXP. BRG.)	0.00	4.000	603.837	0.001	603.838	0.00	-4.588	603.766	0.000	603.767	0.00	-13.177	603.695	0.000	603.695	0.00	-21.765	603.624	-0.000
10.00		4.000	603.789	0.009	603.798	10.00	-4.726	603.717	0.007	603.725	10.00	-13.452	603.645	0.006	603.651	10.00	-22.178	603.572	0.006	603.578
14.75		4.000	603.767	0.012	603.779	14.75	-4.791	603.694	0.010	603.705	14.75	-13.583	603.621	0.010	603.631	14.76	-22.375	603.548	0.009	603.557

	GIRDER G-242					GIRDER G-243				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 13-14 (EXP. BRG. TO PIER 14)	0.00	-25.208	605.205	0.005	605.210	0.00	-32.510	605.144	0.002	605.146
	10.00	-25.208	605.157	0.036	605.193	10.00	-32.510	605.096	0.028	605.125
	20.00	-25.208	605.109	0.067	605.177	20.00	-32.510	605.048	0.055	605.104
	30.00	-25.208	605.061	0.086	605.148	30.00	-32.510	605.000	0.071	605.072
	40.00	-25.208	605.013	0.099	605.113	40.00	-32.510	604.952	0.083	605.036
	50.00	-25.208	604.965	0.103	605.069	50.00	-32.510	604.904	0.088	604.993
	60.00	-25.208	604.917	0.094	605.019	60.00	-32.510	604.856	0.081	604.938
	70.00	-25.208	604.869	0.084	604.953	70.00	-32.510	604.808	0.074	604.883
	80.00	-25.208	604.821	0.063	604.884	80.00	-32.510	604.760	0.058	604.819
	90.00	-25.208	604.773	0.042	604.815	90.00	-32.510	604.712	0.042	604.755
	100.00	-25.208	604.725	0.025	604.751	100.00	-32.510	604.664	0.029	604.694
	110.00	-25.208	604.677	0.011	604.688	110.00	-32.510	604.616	0.017	604.634
115.24	-25.208	604.652	0.003	604.655	115.24	-32.510	604.591	0.011	604.603	
SPAN 14-15	0.00	-25.208	604.652	0.003	604.655	0.00	-32.510	604.591	0.011	604.603
	10.00	-25.272	604.603	0.008	604.611	10.00	-32.510	604.542	0.014	604.556
	20.00	-25.337	604.554	0.013	604.563	20.00	-32.510	604.494	0.017	604.482
	30.00	-25.402	604.4							



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	B1-IHVB	ROCK ISLAND	298	189
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-148

	GIRDER G-93					GIRDER G-94					GIRDER G-95					GIRDER G-96				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 10-II (EXP. BRG. TO PIER II)	0.00	-4.000	604.174	-0.009	604.164	0.00	3.500	604.544	-0.015	604.528	0.00	11.000	604.899	-0.020	604.879	0.00	18.500	605.219	-0.024	605.195
	7.92	-4.000	604.097	0.001	604.099	7.91	3.500	604.489	0.000	604.489	7.89	11.000	604.865	0.000	604.865	7.88	18.500	605.216	0.000	605.216
SPAN 11-12	0.00	-4.000	604.097	0.001	604.099	0.00	3.500	604.489	0.000	604.489	0.00	11.000	604.865	0.000	604.865	0.00	18.500	605.216	0.000	605.216
	10.00	-4.000	603.994	0.018	604.012	10.00	3.500	604.403	0.025	604.429	10.00	11.000	604.808	0.031	604.840	10.00	18.500	605.195	0.037	605.232
	20.00	-4.000	603.881	0.034	603.915	20.00	3.500	604.296	0.047	604.344	20.00	11.000	604.709	0.060	604.769	20.00	18.500	605.119	0.073	605.192
	30.00	-4.000	603.753	0.047	603.800	30.00	3.500	604.174	0.067	604.242	30.00	11.000	604.593	0.083	604.676	30.00	18.500	605.009	0.098	605.108
	40.00	-4.000	603.610	0.053	603.663	40.00	3.500	604.038	0.075	604.113	40.00	11.000	604.464	0.096	604.560	40.00	18.500	604.886	0.119	605.006
	50.00	-4.000	603.452	0.053	603.505	50.00	3.500	603.888	0.078	604.021	50.00	11.000	604.320	0.100	604.421	50.00	18.500	604.749	0.122	604.871
	60.00	-4.000	603.279	0.046	603.325	60.00	3.500	603.722	0.067	603.790	60.00	11.000	604.162	0.091	604.253	60.00	18.500	604.598	0.117	604.716
	70.00	-4.000	603.091	0.034	603.126	70.00	3.500	603.543	0.053	603.597	70.00	11.000	603.990	0.076	604.066	70.00	18.500	604.434	0.098	604.532
	80.00	-4.000	602.889	0.020	602.909	80.00	3.500	603.349	0.034	603.383	80.00	11.000	603.804	0.052	603.857	80.00	18.500	604.255	0.074	604.330
	90.00	-4.000	602.671	0.010	602.681	90.00	3.500	603.140	0.018	603.158	90.00	11.000	603.603	0.029	603.633	90.00	18.500	604.063	0.046	604.109
	97.67	-4.000	602.494	0.002	602.497	102.03	3.500	602.869	0.001	602.871	106.38	11.000	603.389	0.012	603.401	110.73	18.500	603.856	0.024	603.880

	GIRDER G-97					GIRDER G-98					GIRDER G-99					GIRDER G-100				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 12-13 (EXP. BRG. TO PIER 13)	0.00	-4.000	600.005	-0.010	599.995	0.00	3.500	600.364	-0.027	600.337	0.00	11.000	600.724	-0.044	600.680	0.00	18.500	601.084	-0.060	601.023
	10.00	-4.000	599.634	-0.002	599.632	10.00	3.500	600.003	-0.009	599.994	10.00	11.000	600.372	-0.015	600.357	10.00	18.500	600.742	-0.020	600.721
SPAN 13-14	15.75	-4.000	599.414	0.001	599.416	15.74	3.500	599.789	0.000	599.790	15.74	11.000	600.164	0.000	600.165	15.74	18.500	600.539	0.002	600.541
	0.00	-4.000	599.414	0.001	599.416	0.00	3.500	599.789	0.000	599.790	0.00	11.000	600.164	0.000	600.165	0.00	18.500	600.539	0.002	600.541
	10.00	-4.000	599.019	0.014	599.034	10.00	3.500	599.406	0.025	599.431	10.00	11.000	599.792	0.036	599.828	10.00	18.500	600.177	0.048	600.225
	20.00	-4.000	598.609	0.027	598.636	20.00	3.500	599.008	0.048	599.056	20.00	11.000	599.405	0.070	599.475	20.00	18.500	599.801	0.093	599.895
	30.00	-4.000	598.184	0.038	598.223	30.00	3.500	598.596	0.068	598.665	30.00	11.000	599.006	0.099	599.105	30.00	18.500	599.413	0.131	599.545
	40.00	-4.000	597.744	0.045	597.789	40.00	3.500	598.170	0.081	598.252	40.00	11.000	598.593	0.119	598.712	40.00	18.500	599.013	0.160	599.173
	50.00	-4.000	597.289	0.049	597.338	50.00	3.500	597.729	0.089	597.819	50.00	11.000	598.166	0.129	598.296	50.00	18.500	598.599	0.174	598.773
	60.00	-4.000	596.818	0.044	596.862	60.00	3.500	597.274	0.082	597.357	60.00	11.000	597.726	0.123	597.849	60.00	18.500	598.173	0.170	598.343
	70.00	-4.000	596.332	0.036	596.369	70.00	3.500	596.805	0.071	596.877	70.00	11.000	597.272	0.111	597.384	70.00	18.500	597.733	0.154	597.888
	80.00	-4.000	595.832	0.024	595.856	80.00	3.500	596.322	0.050	596.372	80.00	11.000	596.805	0.082	596.887	80.00	18.500	597.281	0.120	597.402
	90.00	-4.000	595.324	0.012	595.336	90.00	3.500	595.829	0.028	595.857	90.00	11.000	596.326	0.050	596.377	90.00	18.500	596.817	0.081	596.899
98.46	-4.000	594.894	0.001	594.896	101.34	3.500	595.269	0.001	595.270	104.22	11.000	595.644	0.001	595.645	107.10	18.500	596.351	0.034	596.386	

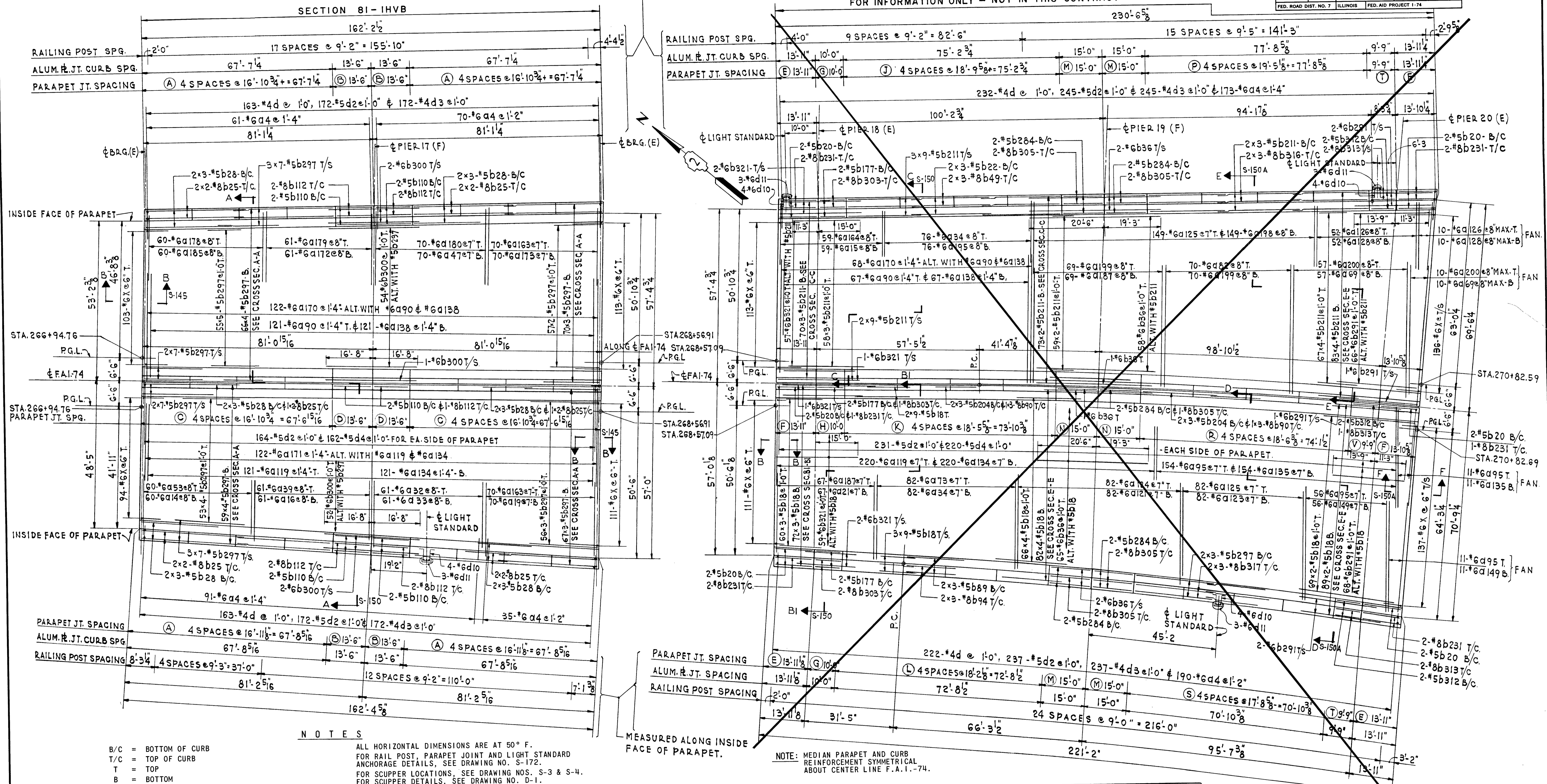
	GIRDER G-101					GIRDER G-102					GIRDER G-103					GIRDER G-104				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 14-15 (EXP. BRG. TO PIER 15)	0.00	-4.000	594.094	-0.008	594.086	0.00	3.500	594.492	-0.025	594.467	0.00	11.000	594.888	-0.042	594.846	0.00	18.500	595.284	-0.060	595.224
	10.00	-4.000	593.590	0.008	593.598	10.00	3.500	593.996	-0.002	593.994	10.00	11.000	594.401	-0.013	594.388	10.00	18.500	594.806	-0.017	594.789
	20.00	-4.000	593.085	0.021	593.106	20.00	3.500	593.500	0.015	593.515	20.00	11.000	593.914	0.008	593.922	20.00	18.500	594.326	0.009	594.335
	30.00	-4.000	592.581	0.027	592.608	30.00	3.504	593.005	0.025	593.030	30.00	11.007	593.427	0.021	593.448	30.00	18.507	593.847	0.022	593.869
	40.00	-4.000	592.077	0.025	592.102	40.00	4.526	592.510	0.027	592.537	40.00	11.046	592.941	0.028	592.969	40.00	18.559	593.370	0.028	593.398
	50.00	-4.000	591.572	0.020	591.592	50.00	3.567	592.016	0.023	592.039	50.00	11.121	592.457	0.026	592.483	50.00	18.664	592.895	0.027	592.922
	60.00	-4.000	591.067	0.011	591.078	60.00	3.625	591.523	0.012	591.535	60.00	11.231	591.975	0.015	591.990	60.00	18.820	592.424	0.019	592.443
	70.00	-4.000	590.576	0.005	590.581	70.00	3.702	591.022	0.005	591.027	70.00	11.377	591.479	0.006	591.485	70.00	19.027	591.945	0.009	591.954
	83.24	-4.000	589.937	0.002	589.939	80.00	3.798	590.510	0.002	590.512	80.00	11.559	590.937	0.003	590.940	80.00	19.286	591.375	0.004	591.379
						85.15	3.854	590.246	0.001	590.247	87.06	11.708	590.555	0.001	590.556	88.98	19.562	590.863	0.002	590.865
	SPAN 15-D	0.00	-4.000	589.937	0.002	589.940	0.00	3.854	590.245	0.001	590.247	0.00	11.708	590.554	0.001	590.555	0.00	19.562	590.863	0.002
10.00		-4.000	589.455	0.012	589.467	10.00	4.005	589.734	0.011	589.745	10.00	11.964	590.012	0.012	590.024	10.00	19.919	590.292	0.013	590.305
20.00		-4.000	588.973	0.023	588.996	20.00	4.229	589.222	0.023	589.246	20.00	12.285	589.470	0.024	589.494	20.00	20.326	589.719	0.025	589.745
30.00		-4.000	588.494	0.036	588.530	30.00	4.458	588.706	0.038	588.745	30.00	12.608	588.915	0.040	588.955	30.00	20.729	589.127	0.041	589.169
40.00		-4.000	587.993	0.044	588.038	40.00	4.623	588.209	0.048	588.257	40.00	12.861	588.415	0.050	588.466	40.00	21.051	588.621	0.052	588.673
50.00		-4.000	587.492	0.050	587.542	50.00	4.723	587.713	0.055	587.768	50.00	13.043	587.925	0.057	587.983	50.00	21.294	588.135	0.060	588.195
60.00		-4.000	586.990	0.042	587.032	60.00	4.758	587.216	0.047	587.263	60.00	13.155	587.433	0.050	587.484	60.00	21.456	587.648	0.065	587.701
70.00		-4.000	586.488	0.030	586.518	70.00	4.729	586.718	0.035	586.753	70.00	13.197	586.940	0.038	586.979	70.00	21.538	587.159	0.043	587.202
						80.00	4.635	586.218	0.012	586.230	80.00	13.168	586.445	0.015	586.460	80.00	21.598	586.670	0.019	586.689
						85.45	4.557	585.944	0.000	585.944	86.29	13.114	586.133	0.000	586.133	87.14	21.671	586.321	0.000	586.321

**NOTES**

TABULATED DISTANCES ARE MEASURED FROM CENTER LINE BEARINGS AT LEFT END (AS SHOWN IN GENERAL PLAN, DRAWING NO. S-3) IN EACH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	190
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

MEASURED ALONG INSIDE FACE OF PARAPET.  
FOR INFORMATION ONLY - NOT IN THIS CONTRACT



**NOTES**

B/C = BOTTOM OF CURB  
T/C = TOP OF CURB  
T = TOP  
B = BOTTOM  
T/S = TOP OF SLAB

TYPICAL BAR INDICATION: 2x3 #5, ETC. INDICATES TWO LINES OF BARS WITH THREE LENGTHS PER LINE.

ALL HORIZONTAL DIMENSIONS ARE AT 50° F.  
FOR RAIL POST, PARAPET JOINT AND LIGHT STANDARD ANCHORAGE DETAILS, SEE DRAWING NO. S-172.  
FOR SCUPPER LOCATIONS, SEE DRAWING NOS. S-3 & S-4.  
FOR SCUPPER DETAILS, SEE DRAWING NO. D-1.  
FOR DETAIL OF 1/8" ALUMINUM SHEET, SEE DRAWING NO. S-150A.  
FOR METHOD OF DETERMINING FILLET HEIGHTS, SEE DRAWING NO. S-132.  
MINIMUM BAR LAP = 24 DIAMETER.  
WORK THIS DRAWING WITH DRAWINGS S-150 THROUGH S-153A.

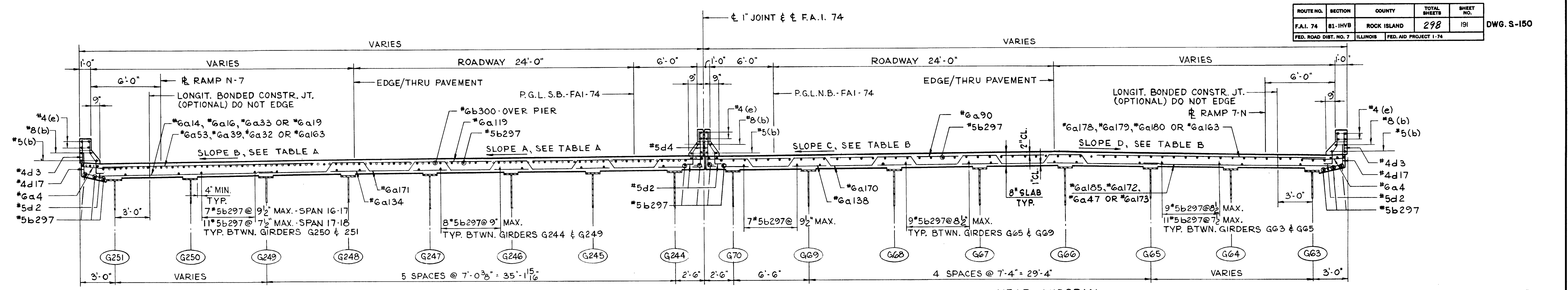
**PLAN**  
SCALE: 1/16" = 1'-0"  
(PARAPETS & CURBS NOT TO SCALE)

NOTE: MEDIAN PARAPET AND CURB REINFORCEMENT SYMMETRICAL ABOUT CENTER LINE F.A.I.-74.

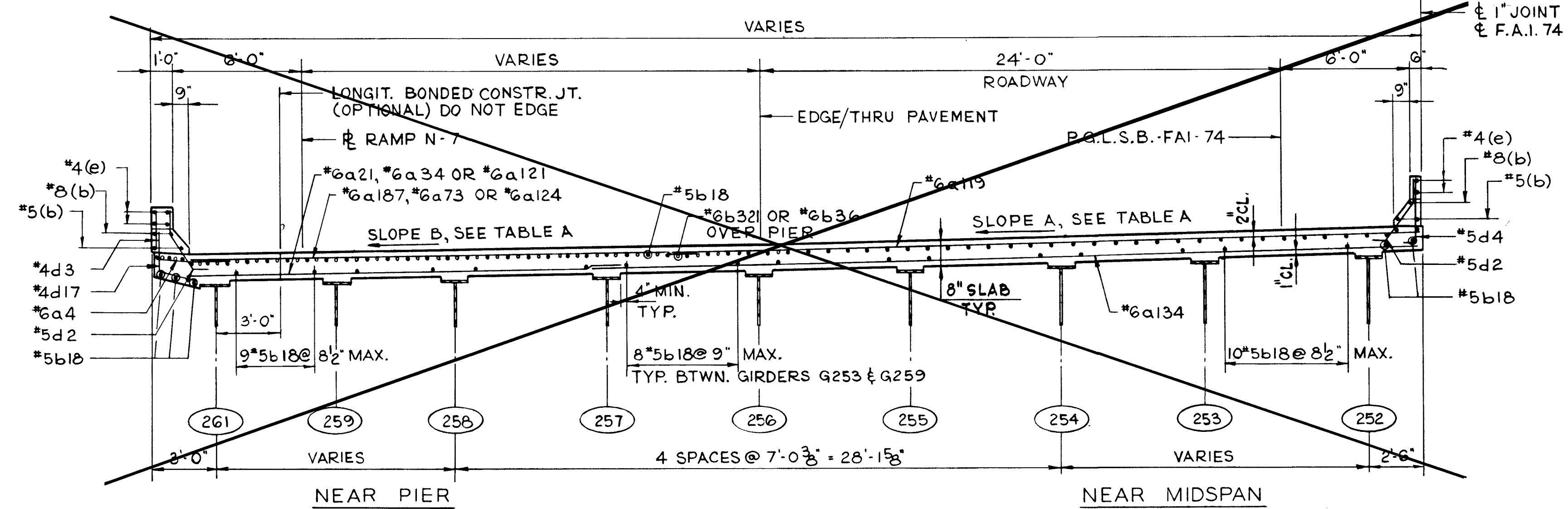
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	507.4
REINFORCEMENT BARS	POUND	136,069
ALUMINUM RAILING	LIN. FT.	325
PROTECTIVE COAT	SQ. YD.	238
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	153
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	1,872

**DECK SLAB-UNIT "F"**  
F.A.I. 74 - SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

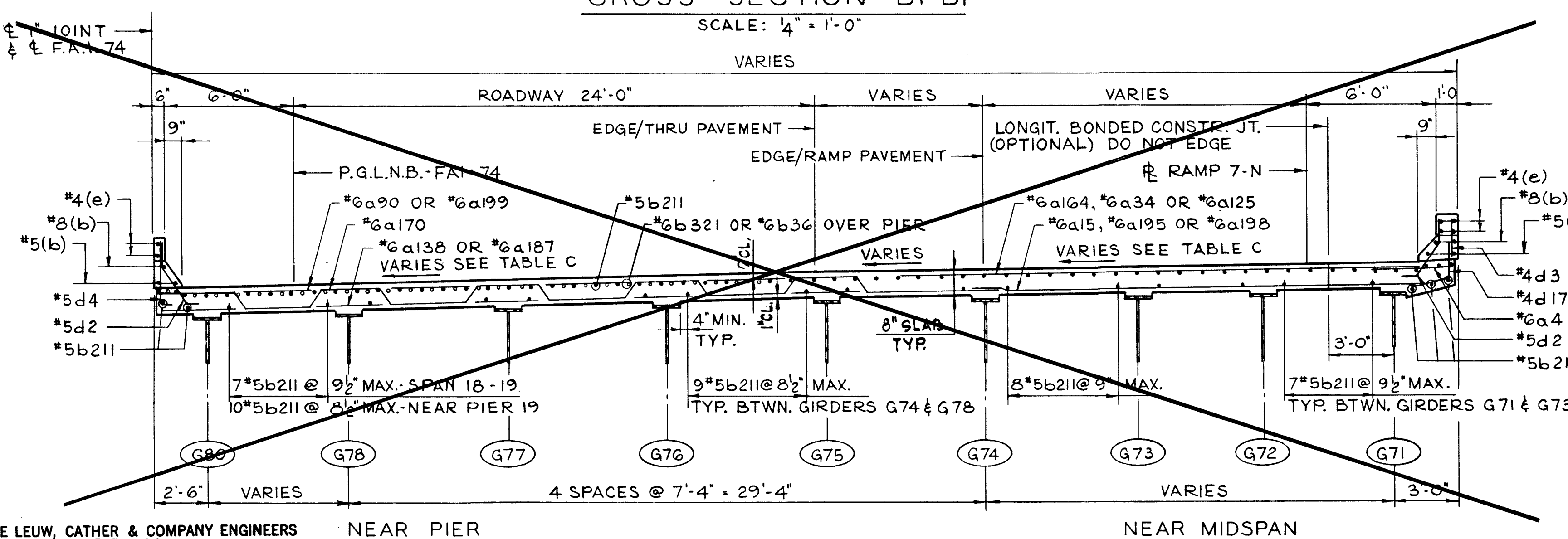
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. FUKUDA  
DRAWN BY A. BURKAS  
CHECKED *[Signature]*  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN



CROSS SECTION A-A  
SCALE: 1/4" = 1'-0"



CROSS SECTION BI-BI  
SCALE: 1/4" = 1'-0"



CROSS SECTION C-C  
SCALE: 1/4" = 1'-0"

TABLE A

STA.	SLOPE A	SLOPE B
266+75	.0083	.0145
267+00	.0083	.0141
267+50	.0083	.0143
268+00	.0083	.0140
268+25	.0083	.0192
268+50	.0129	.0172
269+00	.0229	.0156
269+50	.0329	.0155
269+75	.0380	.0115
270+00	.0380	.0142

TABLE B

STA.	SLOPE C	SLOPE D
266+75	-.0010	.0084
267+00	.0025	.0101
267+50	.0100	.0143
267+72	.0133	.0160
268+00	.0171	.0088
268+30	.0216	.0000

TABLE C

STA.	EDGE/THRU PAV'T	EDGE/RAMP PAV'T
268+30	.0216	.0000
268+50	.0280	.0051
269+00	.0316	.0102
269+50	.0388	.0217
269+75	.0425	.0326
270+00	.0462	.0427

TABLE D

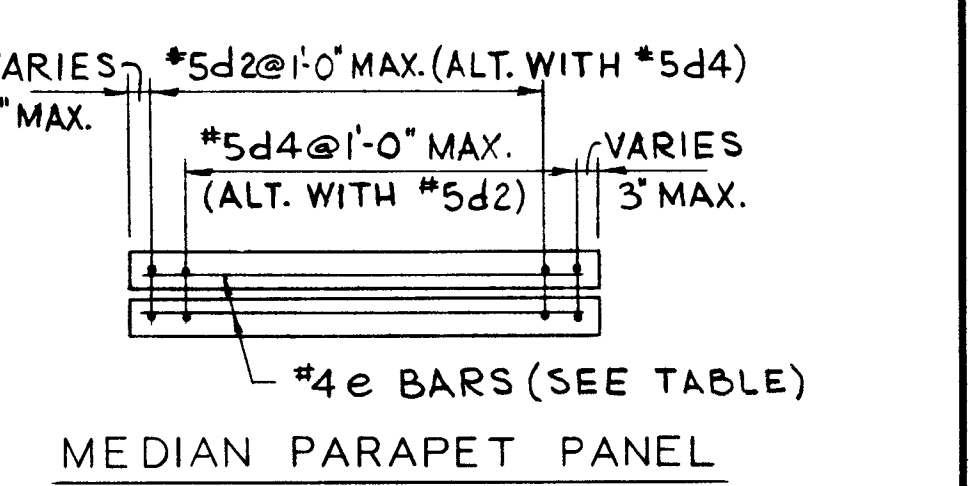
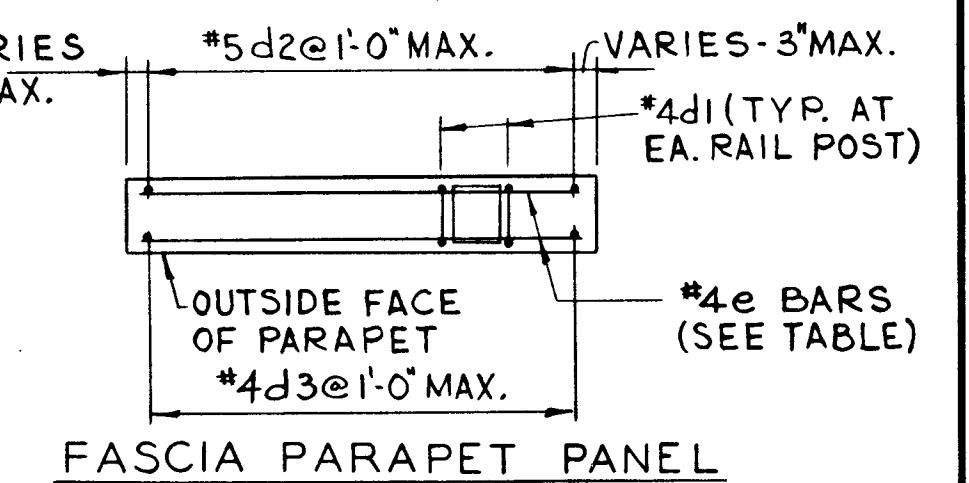
STA.	EDGE/RAMP PAV'T	EDGE/THRU PAV'T
270+00	.0142	.0380
270+25	.0191	.0380
270+50	.0236	.0380
270+75	.0243	.0380
270+85	.0244	.0380

DRAIN REINFORCEMENT

LOCATION	#5b170
PIER 17NB G69-G70	7
PIER 17NB G63-G64	8
PIER 17SB	7
PIER 18NB	7
PIER 18SB	6
PIER 19NB	8
PIER 19NB STA. 269+94	9
PIER 19SB	6
PIER 20NB	8
PIER 20SB G260-G261	8
PIER 20SB G256-G257	8

TABLE E

STA.	EDGE/THRU PAV'T	EDGE/RAMP PAV'T
270+00	.0462	.0421
270+25	.0496	.0256
270+50	.0533	.0298
270+75	.0570	.0221
271+00	.0570	.0221



PARAPET REINF TABLE

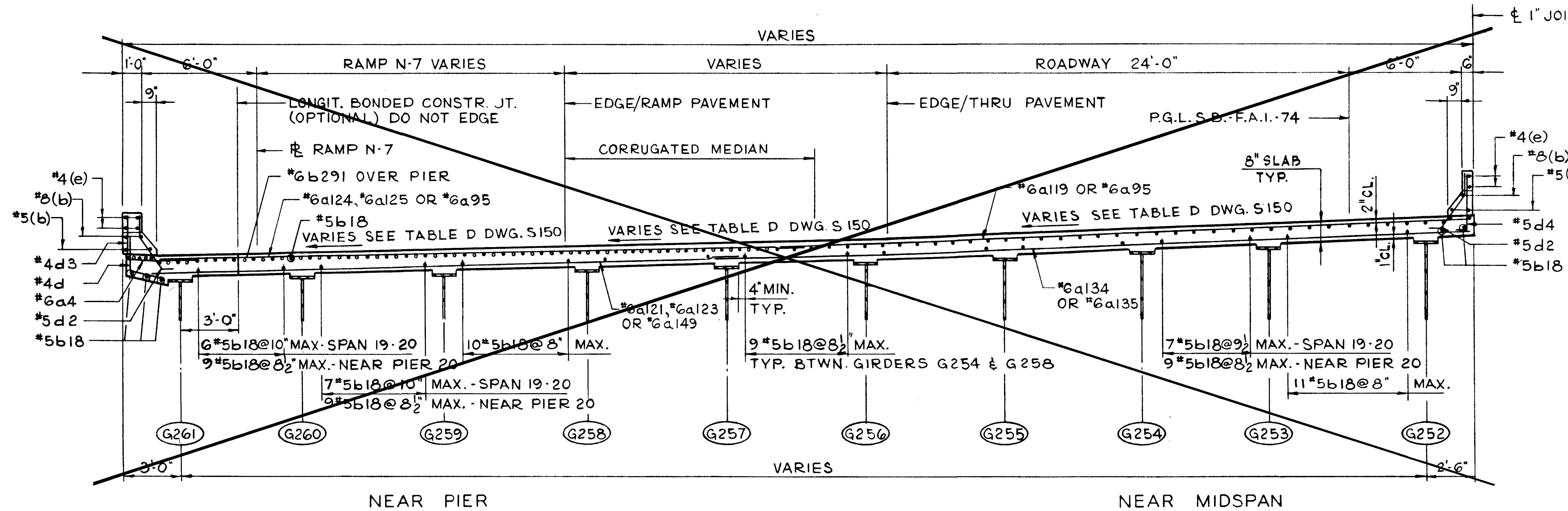
PANEL	NO. OF PANELS	NO. OF BARS IN EACH PANEL	HORIZ. BARS
A	16	18*5d2	4*4e1
B	4	14*5d2	4*4e9
C	8	34*5d2	4*4e1
D	2	28*5d2	4*4e9

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY E. FUKUDA  
DRAWN BY E. FUKUDA  
CHECKED BY W.G. HORN  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

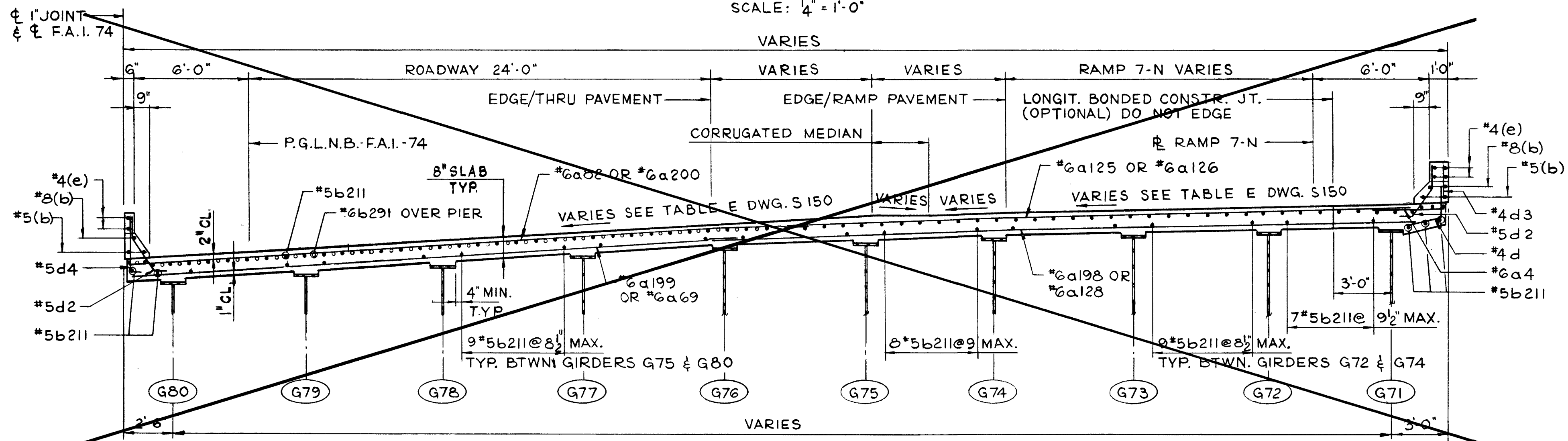
NOTE:  
FOR LOCATION OF DRAIN REINFORCEMENT SEE DWG. S-140-A.

DECK SLAB-UNIT "F"  
SECTIONS AND DETAILS  
F.A.I. 74-SECTION 81-IHV  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:

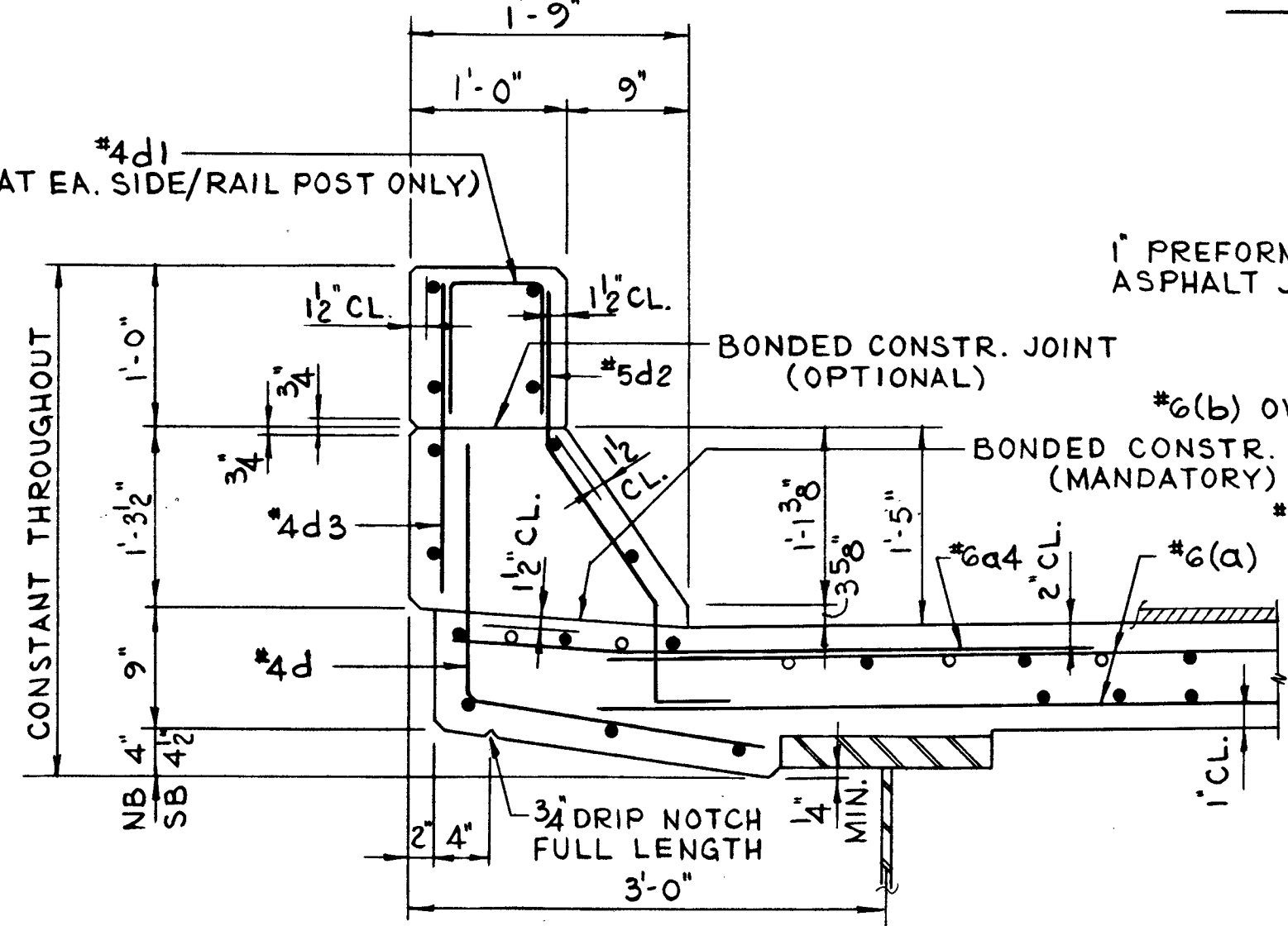
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	DWG. NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	278	192	DWG. S-150A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74		



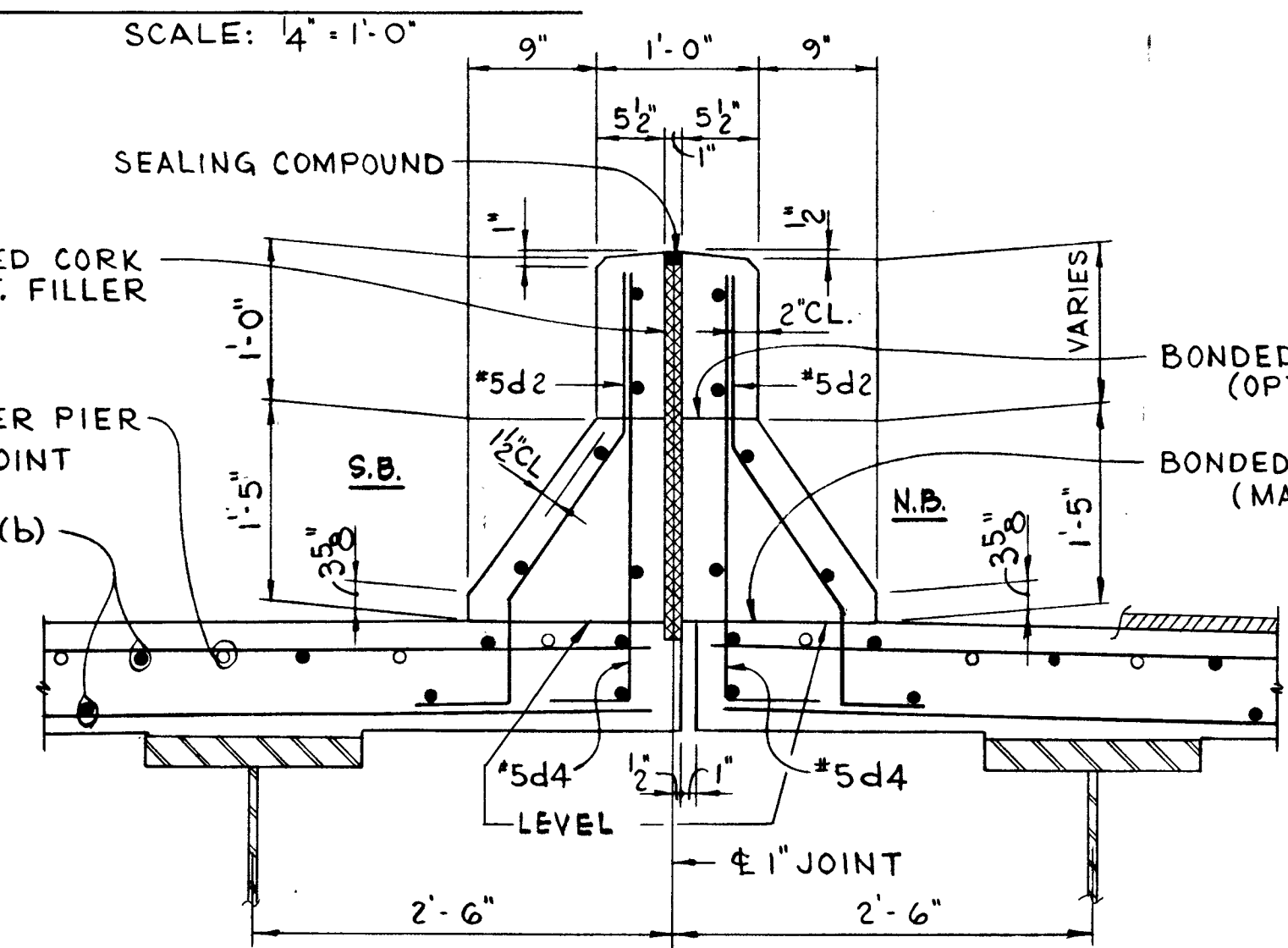
CROSS SECTION D-D  
SCALE: 1/4" = 1'-0"



CROSS SECTION E-E  
SCALE: 1/4" = 1'-0"

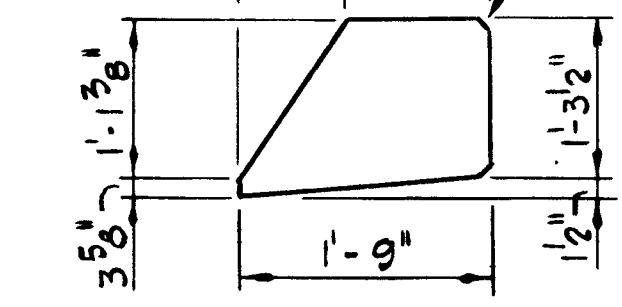


FASCIA CURB SECTION  
SCALE: 1" = 1'-0"

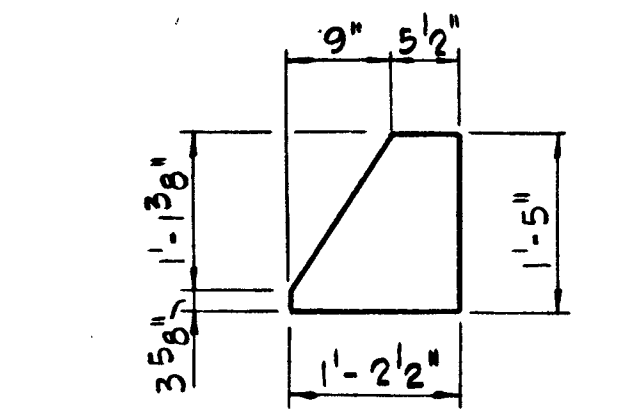


MEDIAN CURB SECTION  
SCALE: 1" = 1'-0"

AT EXTERIOR PARAPETS



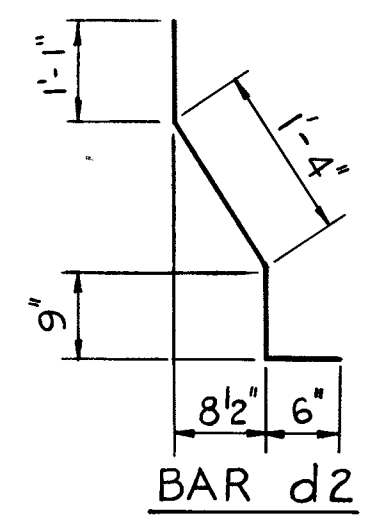
AT MEDIAN PARAPETS



8" ALUMINUM SHEET  
DETAIL

(A.S.T.M. B209 ALLOY 3003-H14)  
NO SCALE

NOTE  
COST OF ALUMINUM SHEETS SHALL  
BE INCIDENTAL TO CLASS "X"  
CONCRETE.



REINFORCING BAR LIST - NORTH SECTION					REINFORCING BAR LIST - SOUTH SECTION				
BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE	BAR MARK	QUANTITY	BAR SIZE	LENGTH	SHAPE
A4	257	6	4'-0	---	A4	363	6	4'-0	---
A14	60	6	13'-6	---	A21	67	6	22'-3	---
A15	59	6	29'-8	---	A34	158	6	25'-7	---
A16	61	6	15'-9	---	A69	67	6	32'-3	---
A19	70	6	20'-0	---	A73	82	6	29'-0	---
A32	61	6	21'-6	---	A82	70	6	33'-0	---
A33	61	6	18'-0	---	A90	67	6	35'-2	---
A39	61	6	19'-2	---	A95	232	6	36'-0	---
A47	70	6	18'-9	---	A111	220	6	34'-9	---
A53	60	6	17'-3	---	A121	82	6	27'-9	---
A90	121	6	35'-2	---	A123	82	6	30'-0	---
A119	121	6	34'-9	---	A124	82	6	31'-3	---
A134	121	6	38'-3	---	A125	231	6	33'-9	---
A138	121	6	39'-0	---	A126	62	6	35'-0	---
A163	140	6	23'-6	---	A128	62	6	38'-6	---
A164	59	6	24'-6	---	A134	220	6	38'-3	---
A170	122	6	40'-4	---	A135	65	6	39'-9	---
A171	122	6	39'-8	---	A138	67	6	39'-0	---
A172	61	6	17'-9	---	A149	67	6	32'-6	---
A173	70	6	19'-10	---	A170	68	6	40'-4	---
A178	60	6	20'-4	---	A187	134	6	24'-2	---
A179	61	6	21'-5	---	A195	16	6	27'-2	---
A180	70	6	22'-5	---	A198	149	6	17'-6	---
A185	60	6	16'-8	---	A199	139	6	29'-8	---
B25	24	8	34'-9	---	A200	67	6	35'-10	---
B28	48	5	23'-4	---	B18	1349	5	26'-3	---
B110	16	5	13'-3	---	B20	16	5	13'-6	---
B112	12	8	13'-3	---	B22	6	5	25'-10	---
B170	22	5	2'-6	---	B36	129	9	39'-9	---
B297	1750	5	24'-4	---	B49	6	8	26'-4	---
B300	112	6	33'-4	---	B89	6	8	25'-1	---
D	326	4	3'-7	---	B90	12	8	25'-11	---
D1	70	4	2'-3	---	B94	6	8	25'-6	---
D2	672	5	3'-8	---	B170	60	5	2'-6	---
D3	344	4	2'-0	---	D3	8	5	9'-9	---
D4	324	5	3'-2	---	B204	24	5	25'-5	---
D10	4	6	9'-3	---	B211	1299	5	26'-9	---
D11	3	6	4'-0	---	B231	12	8	33'-7	---
E1	96	4	16'-8	---	B284	16	5	11'-9	---
E9	24	4	13'-3	---	B291	140	6	23'-0	---
X	421	6	4'-3	---	B297	4	5	24'-4	---
					B303	6	8	9'-9	---
					B305	12	8	14'-9	---
					B312	8	5	9'-8	---
					B313	6	8	9'-6	---
					B316	6	8	27'-8	---
					B317	6	8	24'-10	---
					B321	122	6	26'-3	---
					D	454	4	3'-7	---
					D1	100	4	2'-3	---
					D2	944	5	3'-5	---
					D3	482	4	1'-10	---
					D4	440	5	3'-0	---
					D10	12	6	9'-3	---
					D11	9	6	3'-10	---
					D22	24	4	13'-8	---
					E56	16	4	17'-5	---
					E56	16	4	17'-11	---
					E56	16	4	18'-6	---
					E64	32	4	18'-2	---
					E81	12	4	9'-9	---
					E82	24	4	14'-9	---
					E90	1	4	9'-6	---
					E91	16	4	19'-2	---
					X	918	6	4'-3	---

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. FUKUDA  
DRAWN BY E. FUKUDA  
CHECKED BY D. O. MARTINS  
IN CHARGE E. S. MARTINS  
APPROVED W.G. HORN

NOTE:  
BAR MARKS INDICATED 44 ETC.  
REFERS TO MARK A4 ETC. IN THE  
REINFORCING BAR LIST.

DECK SLAB-UNIT "F"  
CROSS SECTIONS AND DETAILS  
F.A.I. 74-SECTION 81-1HVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265+20  
SCALE: AS NOTED DATE:

an

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	193
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-151

	GIRDER G-63					GIRDER G-64					GIRDER G-65					GIRDER G-66				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 16-17 (EXP. BRG. TO PIER 17)	0.00	44.713	603.575	0.031	603.607	0.00	38.273	603.638	0.022	603.661	0.00	31.833	603.701	0.012	603.714	0.00	24.499	603.773	0.006	603.779
	10.00	44.972	603.544	0.040	603.584	10.00	38.402	603.613	0.031	603.644	10.00	31.833	603.682	0.022	603.705	10.00	24.499	603.760	0.018	603.778
	20.00	45.231	603.511	0.045	603.557	20.00	38.532	603.587	0.037	603.625	20.00	31.833	603.664	0.030	603.694	20.00	24.499	603.747	0.027	603.774
	30.00	45.489	603.478	0.047	603.525	30.00	38.661	603.561	0.038	603.600	30.00	31.833	603.645	0.032	603.678	30.00	24.499	603.735	0.030	603.766
	40.00	45.748	603.444	0.043	603.487	40.00	38.791	603.535	0.034	603.570	40.00	31.833	603.626	0.029	603.656	40.00	24.499	603.722	0.028	603.751
	50.00	46.007	603.410	0.035	603.445	50.00	38.920	603.509	0.026	603.535	50.00	31.833	603.608	0.021	603.630	50.00	24.499	603.710	0.021	603.731
	60.00	46.266	603.377	0.024	603.402	60.00	39.050	603.483	0.016	603.499	60.00	31.833	603.590	0.011	603.601	60.00	24.499	603.698	0.011	603.709
	70.00	46.525	603.344	0.015	603.360	70.00	39.179	603.458	0.007	603.465	70.00	31.833	603.572	0.002	603.574	70.00	24.499	603.686	0.002	603.688
	80.00	46.784	603.336	0.011	603.347	80.00	39.309	603.449	0.003	603.453	80.00	31.833	603.562	-0.001	603.560	80.00	24.499	603.673	-0.001	603.671
	80.43	46.795	603.337	0.011	603.349	80.41	39.314	603.450	0.004	603.454	80.40	31.833	603.562	-0.001	603.561	80.40	24.499	603.672	-0.001	603.671
SPAN 17-18 (PIER 17 TO EXP. BRG.)	0.00	46.795	603.337	0.011	603.349	0.00	39.314	603.450	0.004	603.454	0.00	31.833	603.562	-0.001	603.561	0.00	24.499	603.672	-0.001	603.671
	10.00	47.054	603.378	0.011	603.389	10.00	39.443	603.472	0.007	603.480	10.00	31.833	603.567	0.002	603.570	10.00	24.499	603.658	0.002	603.660
	20.00	47.313	603.419	0.017	603.437	20.00	39.573	603.495	0.017	603.513	20.00	31.833	603.571	0.012	603.584	20.00	24.499	603.643	0.011	603.655
	30.00	47.572	603.469	0.023	603.493	30.00	39.702	603.524	0.027	603.552	30.00	31.833	603.580	0.023	603.604	30.00	24.499	603.632	0.021	603.655
	40.00	47.831	603.525	0.027	603.552	40.00	39.832	603.558	0.034	603.592	40.00	31.833	603.591	0.031	603.623	40.00	24.499	603.621	0.029	603.651
	50.00	48.089	603.583	0.025	603.608	50.00	39.961	603.593	0.034	603.627	50.00	31.833	603.602	0.033	603.636	50.00	24.499	603.611	0.031	603.643
	60.00	48.348	603.641	0.018	603.660	60.00	40.091	603.628	0.028	603.657	60.00	31.833	603.614	0.029	603.644	60.00	24.499	603.603	0.028	603.632
	70.00	48.607	603.700	0.006	603.707	70.00	40.220	603.664	0.016	603.680	70.00	31.833	603.627	0.019	603.647	70.00	24.499	603.597	0.019	603.617
	80.00	48.866	603.738	-0.009	603.729	80.00	40.350	603.683	0.000	603.683	80.00	31.833	603.627	0.006	603.634	80.00	24.499	603.585	0.007	603.593
	80.44	48.878	603.739	-0.009	603.729	80.42	40.355	603.683	0.000	603.683	80.41	31.833	603.627	0.006	603.633	80.41	24.499	603.584	0.007	603.591
SPAN 16-17 (EXP. BRG. TO PIER 17)	0.00	17.166	603.765	0.005	603.771	0.00	9.833	603.752	0.009	603.761	0.00	2.500	603.738	0.020	603.758	0.00	-4.000	603.726	0.034	603.761
	10.00	17.166	603.742	0.017	603.760	10.00	9.833	603.718	0.021	603.739	10.00	2.500	603.694	0.030	603.724	10.00	-4.000	603.672	0.041	603.714
	20.00	17.166	603.720	0.026	603.747	20.00	9.833	603.685	0.029	603.715	20.00	2.500	603.650	0.037	603.687	20.00	-4.000	603.618	0.046	603.664
	30.00	17.166	603.698	0.030	603.728	30.00	9.833	603.652	0.032	603.684	30.00	2.500	603.605	0.039	603.645	30.00	-4.000	603.564	0.046	603.611
	40.00	17.166	603.676	0.028	603.704	40.00	9.833	603.618	0.030	603.649	40.00	2.500	603.561	0.036	603.597	40.00	-4.000	603.510	0.042	603.553
	50.00	17.166	603.653	0.021	603.674	50.00	9.833	603.585	0.022	603.608	50.00	2.500	603.517	0.027	603.545	50.00	-4.000	603.456	0.034	603.490
	60.00	17.166	603.631	0.011	603.642	60.00	9.833	603.552	0.012	603.564	60.00	2.500	603.473	0.017	603.490	60.00	-4.000	603.402	0.023	603.426
	70.00	17.166	603.609	0.001	603.611	70.00	9.833	603.519	0.002	603.521	70.00	2.500	603.428	0.007	603.436	70.00	-4.000	603.348	0.014	603.362
	80.00	17.166	603.586	-0.001	603.584	80.00	9.833	603.485	-0.001	603.484	80.00	2.500	603.384	0.002	603.386	80.00	-4.000	603.294	0.008	603.303
	80.40	17.166	603.585	-0.001	603.584	80.40	9.833	603.484	-0.001	603.482	80.40	2.500	603.382	0.002	603.385	80.40	-4.000	603.292	0.009	603.301
SPAN 17-18 (PIER 17 TO EXP. BRG.)	0.00	17.166	603.585	-0.001	603.584	0.00	9.833	603.484	-0.001	603.482	0.00	2.500	603.382	0.002	603.385	0.00	-4.000	603.292	0.009	603.301
	10.00	17.166	603.560	0.001	603.562	10.00	9.833	603.449	0.001	603.450	10.00	2.500	603.337	0.004	603.342	10.00	-4.000	603.239	0.009	603.248
	20.00	17.166	603.535	0.010	603.546	20.00	9.833	603.414	0.009	603.424	20.00	2.500	603.293	0.011	603.304	20.00	-4.000	603.185	0.014	603.199
	30.00	17.166	603.512	0.020	603.533	30.00	9.833	603.380	0.018	603.399	30.00	2.500	603.248	0.019	603.268	30.00	-4.000	603.132	0.019	603.151
	40.00	17.166	603.490	0.027	603.518	40.00	9.833	603.347	0.025	603.373	40.00	2.500	603.204	0.024	603.229	40.00	-4.000	603.078	0.023	603.101
	50.00	17.166	603.468	0.029	603.498	50.00	9.833	603.314	0.027	603.341	50.00	2.500	603.160	0.025	603.186	50.00	-4.000	603.023	0.023	603.047
	60.00	17.166	603.448	0.026	603.474	60.00	9.833	603.282	0.023	603.305	60.00	2.500	603.116	0.021	603.137	60.00	-4.000	602.969	0.018	602.987
	70.00	17.166	603.429	0.017	603.446	70.00	9.833	603.250	0.013	603.264	70.00	2.500	603.072	0.011	603.084	70.00	-4.000	602.914	0.009	602.924
	80.00	17.166	603.406	0.005	603.411	80.00	9.833	603.217	0.000	603.218	80.00	2.500	603.028	-0.001	603.026	80.00	-4.000	602.860	-0.002	602.858
	80.41	17.166	603.405	0.004	603.410	80.41	9.833	603.215	0.000	603.216	80.41	2.500	603.026	-0.002	603.024	80.41	-4.000	602.858	-0.002	602.855

NOTES:

FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 16-17,  
SEE DRAWING NO. S-146.

FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 17-18,  
SEE DRAWING NO. S-152.

TABULATED DISTANCES ARE MEASURED FROM NORTH END IN  
EACH SPAN, ALONG CENTER LINE OF GIRDERS.

TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB  
ALONG CENTER LINE OF GIRDERS.

NORMAL OFFSETS ARE MEASURED FROM PROFILE GRADE LINE.  
POSITIVE OFFSETS PERTAIN TO POINTS WEST OF THE P.G.  
NEGATIVE OFFSETS PERTAIN TO POINTS EAST OF THE P.G.

POSITIVE DEFLECTIONS INDICATE DOWNWARD DEFLECTIONS.  
NEGATIVE DEFLECTIONS INDICATE UPWARD DEFLECTIONS.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY R.D. KOESTER  
 DRAWN BY R.K. MILLER  
 CHECKED X.D. KOSTER  
 IN CHARGE E.S. MARTINS  
 APPROVED W.G. HORN

DECK ELEVATIONS-UNIT "F"  
 F.A.I.74-SECTION 81-IHVB  
 MOLINE VIADUCT  
 ROCK ISLAND COUNTY  
 STATION 265 + 20

SCALE: AS NOTED      DATE:

N O T E : THIS SHEET INCLUDED ONLY FOR INFORMATION ON DEFLECTIONS  
AT EXPANSION JOINT NEAR PIER 18 (TOP LINE OF EACH TABLE).

ROUTE NO. SECTION COUNTY TOTAL SHEETS SHEET NO.  
F.A.I. 74 81-IHVB ROCK ISLAND 298 194 DWG. NO. S-152  
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 1-74

	GIRDER G-71					GIRDER G-72					GIRDER G-73					GIRDER G-74					GIRDER G-75				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 17-18 (EXP. BRG. TO PIER 18)	0.00 10.00 14.75	48.878 49.136 49.259	603.739 603.760 603.771	-0.009 -0.005 -0.003	603.729 603.755 603.767	0.00 10.00 14.74	43.833 43.833 43.833	603.706 603.717 603.723	-0.004 -0.002 -0.001	603.701 603.715 603.721	0.00 10.00 14.74	38.833 38.833 38.833	603.673 603.676 603.678	0.001 0.002 0.002	603.674 603.679 603.681	0.00 10.00 14.74	31.833 31.833 31.833	603.627 603.619 603.616	0.006 0.008 0.009	603.633 603.628 603.625	0.00 10.00 14.74	24.499 24.499 24.499	603.584 603.568 603.561	0.007 0.011 0.012	603.591 603.579 603.574
SPAN 18-19	0.00	49.259	603.771	-0.003	603.767	0.00	43.833	603.723	-0.001	603.721	0.00	38.833	603.678	0.002	603.681	0.00	31.833	603.616	0.009	603.625	0.00	24.499	603.561	0.012	603.574
	10.00	49.518	603.793	0.007	603.801	10.00	43.984	603.735	0.008	603.744	10.00	38.833	603.681	0.013	603.695	10.00	31.833	603.608	0.022	603.630	10.00	24.499	603.549	0.026	603.571
	20.00	49.777	603.817	0.018	603.835	20.00	44.135	603.748	0.019	603.768	20.00	38.833	603.684	0.024	603.709	20.00	31.833	603.600	0.035	603.635	20.00	24.499	603.525	0.039	603.569
	30.00	50.036	603.842	0.026	603.868	30.00	44.285	603.763	0.026	603.789	30.00	38.833	603.688	0.032	603.721	30.00	31.833	603.593	0.044	603.637	30.00	24.499	603.514	0.048	603.563
	40.00	50.295	603.878	0.030	603.909	40.00	44.436	603.789	0.030	603.819	40.00	38.833	603.703	0.037	603.740	40.00	31.833	603.596	0.049	603.646	40.00	24.499	603.501	0.054	603.556
	50.00	50.553	603.916	0.035	603.951	50.00	44.587	603.815	0.034	603.850	50.00	38.833	603.718	0.041	603.760	50.00	31.833	603.600	0.055	603.655	50.00	24.499	603.489	0.059	603.549
	60.00	50.814	603.954	0.028	603.983	60.00	44.740	603.842	0.028	603.870	60.00	38.833	603.733	0.041	603.767	60.00	31.833	603.604	0.046	603.651	60.00	24.501	603.477	0.050	603.528
	70.00	51.111	603.994	0.020	604.015	70.00	44.929	603.870	0.020	603.891	70.00	38.873	603.749	0.026	603.775	70.00	31.873	603.609	0.037	603.647	70.00	24.540	603.466	0.041	603.507
	80.00	51.458	604.036	0.013	604.049	80.00	45.169	603.901	0.013	603.914	80.00	38.962	603.767	0.018	603.786	80.00	31.963	603.617	0.029	603.645	80.00	24.630	603.456	0.032	603.488
	90.00	51.857	604.081	0.006	604.087	90.00	45.461	603.941	0.006	603.948	90.00	39.103	603.802	0.010	603.813	90.00	32.104	603.648	0.019	603.668	90.00	24.772	603.456	0.022	603.479
	100.00	52.306	604.140	-0.000	604.140	100.00	45.803	603.996	-0.000	603.996	99.86	39.292	603.851	0.003	603.855	99.71	32.290	603.692	0.010	603.702	99.55	24.955	603.469	0.013	603.482
	100.18	52.315	604.142	-0.001	604.141	100.02	45.803	603.996	0.000	603.996															

NOTES : FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 17-18, SEE DRAWING NO. S-151.  
FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 20-21, SEE DRAWING NO. S-158.  
THE NORTH END OF G79 IS THE CENTER LINE NORTHERMOST CROSS FRAME IN SPAN 19-20.  
TABULATED DISTANCES ARE MEASURED FROM NORTH END IN EACH SPAN, ALONG CENTER LINE OF GIRDERS.  
TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB ALONG CENTER LINE OF GIRDERS.  
NORMAL OFFSETS ARE MEASURED FROM PROFILE GRADE LINE.  
NEGATIVE OFFSETS PERTAIN TO POINTS WEST OF THE P.G.  
POSITIVE OFFSETS PERTAIN TO POINTS EAST OF THE P.G.  
NEGATIVE DEFLECTIONS INDICATE DOWNWARD DEFLECTIONS.  
NEGATIVE DEFLECTIONS INDICATE UPWARD DEFLECTIONS.

\*THEORETICAL ELEVATIONS ARE GIVEN ONLY FOR DETERMINING FILLET HEIGHTS FINISH SLAB TO MEET ELEVATIONS GIVEN ON GENERAL PLAN, DRAWING NO. S-4.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY R.K. MILLER  
CHECKED H.C. KOESTER  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN

DECK ELEVATIONS-UNIT "F"  
F.A.I.74-SECTION 81-IHVB  
MOLINE VIADUCT  
ROCK ISLAND COUNTY  
STATION 265 + 20  
SCALE: AS NOTED DATE:



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-IHVB	ROCK ISLAND	298	195
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

DWG. NO. S-153

NOTE: THIS SHEET INCLUDED ONLY FOR INFORMATION ON DEFLECTIONS AT EXPANSION JOINT NEAR PIER 18 (TOP LINE OF EACH TABLE).

	GIRDER G-244					GIRDER G-245					GIRDER G-246					GIRDER G-247				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 16-17 (EXP. BRG. TO PIER 17)	0.00	4.000	603.767	0.012	603.780	0.00	-3.031	603.708	0.011	603.720	0.00	-10.063	603.650	0.010	603.660	0.00	-17.095	603.591	0.009	603.601
	10.00	4.000	603.719	0.023	603.743	10.00	-3.031	603.660	0.023	603.684	10.00	-10.063	603.602	0.021	603.623	10.00	-17.095	603.543	0.021	603.564
	20.00	4.000	603.671	0.031	603.703	20.00	-3.031	603.612	0.032	603.644	20.00	-10.063	603.554	0.030	603.584	20.00	-17.095	603.495	0.029	603.525
	30.00	4.000	603.623	0.035	603.658	30.00	-3.031	603.564	0.035	603.600	30.00	-10.063	603.506	0.033	603.539	30.00	-17.095	603.447	0.032	603.480
	40.00	4.000	603.575	0.034	603.609	40.00	-3.031	603.516	0.033	603.550	40.00	-10.063	603.458	0.031	603.489	40.00	-17.095	603.399	0.030	603.430
	50.00	4.000	603.527	0.029	603.556	50.00	-3.031	603.468	0.026	603.495	50.00	-10.063	603.410	0.023	603.433	50.00	-17.095	603.351	0.023	603.374
	60.00	4.000	603.479	0.021	603.500	60.00	-3.031	603.420	0.016	603.437	60.00	-10.063	603.362	0.013	603.375	60.00	-17.095	603.303	0.012	603.316
	70.00	4.000	603.431	0.013	603.444	70.00	-3.031	603.372	0.007	603.379	70.00	-10.063	603.314	0.003	603.317	70.00	-17.095	603.255	0.002	603.258
	80.00	4.000	603.383	0.010	603.393	80.00	-3.031	603.324	0.002	603.327	80.00	-10.063	603.266	-0.001	603.264	80.00	-17.095	603.207	-0.001	603.205
80.40	4.000	603.381	0.010	603.391	80.40	-3.031	603.322	0.002	603.325	80.40	-10.063	603.264	-0.001	603.262	80.40	-17.095	603.205	-0.001	603.203	
SPAN 17-18 (PIER 17 TO EXP. BRG.)	0.00	4.000	603.381	0.010	603.391	0.00	-3.031	603.322	0.002	603.325	0.00	-10.063	603.264	-0.001	603.262	0.00	-17.095	603.205	-0.001	603.203
	10.00	4.000	603.333	0.011	603.345	10.00	-3.031	603.274	0.005	603.280	10.00	-10.063	603.216	0.001	603.218	10.00	-17.095	603.157	0.001	603.159
	20.00	4.000	603.285	0.017	603.302	20.00	-3.031	603.226	0.013	603.240	20.00	-10.063	603.168	0.010	603.178	20.00	-17.095	603.109	0.010	603.120
	30.00	4.000	603.237	0.023	603.261	30.00	-3.031	603.178	0.021	603.200	30.00	-10.063	603.120	0.019	603.139	30.00	-17.095	603.061	0.020	603.081
	40.00	4.000	603.189	0.027	603.217	40.00	-3.031	603.130	0.027	603.158	40.00	-10.063	603.072	0.025	603.098	40.00	-17.095	603.013	0.027	603.040
	50.00	4.000	603.141	0.027	603.169	50.00	-3.031	603.082	0.028	603.110	50.00	-10.063	603.022	0.027	603.049	50.00	-17.095	602.963	0.028	602.991
	60.00	4.000	603.101	0.022	603.123	60.00	-3.031	603.028	0.023	603.051	60.00	-10.063	602.956	0.023	602.979	60.00	-17.095	602.883	0.024	602.908
	70.00	4.000	603.060	0.012	603.073	70.00	-3.031	602.975	0.012	602.988	70.00	-10.063	602.889	0.013	602.903	70.00	-17.095	602.804	0.015	602.819
	80.00	4.000	603.020	0.000	603.020	80.00	-3.031	602.921	-0.000	602.920	80.00	-10.063	602.822	0.000	602.822	80.00	-17.095	602.723	0.003	602.726
80.40	4.000	603.018	-0.000	603.018	80.40	-3.031	602.919	-0.001	602.918	80.40	-10.063	602.819	0.000	602.819	80.40	-17.095	602.719	0.002	602.722	
SPAN 16-17 (EXP. BRG. TO PIER 17)	0.00	-24.127	603.532	0.011	603.543	0.00	-31.159	603.432	0.020	603.453	0.00	-35.552	603.370	0.024	603.394	0.00	-39.945	603.307	0.028	603.336
	10.00	-24.127	603.484	0.022	603.507	10.00	-31.159	603.384	0.028	603.413	10.00	-35.816	603.319	0.029	603.348	10.00	-40.474	603.253	0.035	603.288
	20.00	-24.127	603.436	0.031	603.467	20.00	-31.159	603.336	0.033	603.369	20.00	-36.081	603.266	0.032	603.299	20.00	-41.003	603.197	0.040	603.237
	30.00	-24.127	603.388	0.034	603.422	30.00	-31.159	603.288	0.033	603.322	30.00	-36.346	603.214	0.031	603.246	30.00	-41.532	603.141	0.040	603.182
	40.00	-24.127	603.340	0.031	603.371	40.00	-31.159	603.240	0.030	603.270	40.00	-36.611	603.162	0.027	603.190	40.00	-42.061	603.085	0.037	603.122
	50.00	-24.127	603.292	0.023	603.316	50.00	-31.159	603.191	0.022	603.213	50.00	-36.876	603.110	0.020	603.130	50.00	-42.590	603.029	0.030	603.059
	60.00	-24.127	603.244	0.013	603.257	60.00	-31.159	603.144	0.011	603.155	60.00	-37.140	603.058	0.011	603.070	60.00	-43.119	602.974	0.020	602.994
	70.00	-24.127	603.196	0.003	603.199	70.00	-31.159	603.096	0.002	603.099	70.00	-37.405	603.007	0.004	603.012	70.00	-43.648	602.919	0.012	602.932
	80.00	-24.127	603.148	-0.001	603.146	80.00	-31.159	603.048	-0.001	603.047	80.00	-37.670	602.956	0.002	602.959	80.00	-44.177	602.865	0.008	602.874
80.40	-24.127	603.146	-0.001	603.144	80.40	-31.159	603.046	-0.001	603.045	80.43	-37.682	602.954	0.002	602.957	80.52	-44.205	602.862	0.008	602.871	
SPAN 17-18 (PIER 17 TO EXP. BRG.)	0.00	-24.127	603.146	-0.001	603.144	0.00	-31.159	603.046	-0.001	603.045	0.00	-37.682	602.954	0.002	602.957	0.00	-44.205	602.862	0.008	602.871
	10.00	-24.127	603.098	0.002	603.100	10.00	-31.159	602.999	0.004	603.003	10.00	-37.946	602.903	0.008	602.912	10.00	-44.733	602.808	0.011	602.819
	20.00	-24.127	603.050	0.010	603.061	20.00	-31.159	602.951	0.014	602.965	20.00	-38.211	602.852	0.018	602.871	20.00	-45.262	602.754	0.018	602.772
	30.00	-24.127	603.002	0.020	603.022	30.00	-31.159	602.895	0.024	602.919	30.00	-38.476	602.784	0.028	602.812	30.00	-45.791	602.673	0.025	602.698
	40.00	-24.127	602.953	0.027	602.981	40.00	-31.159	602.832	0.031	602.863	40.00	-38.741	602.701	0.034	602.735	40.00	-46.320	602.571	0.028	602.600
	50.00	-24.127	602.902	0.029	602.931	50.00	-31.159	602.767	0.032	602.799	50.00	-39.005	602.618	0.033	602.651	50.00	-46.849	602.468	0.027	602.495
	60.00	-24.127	602.850	0.025	602.835	60.00	-31.159	602.681	0.026	602.708	60.00	-39.270	602.533	0.026	602.559	60.00	-47.378	602.385	0.019	602.405
	70.00	-24.127	602.718	0.016	602.734	70.00	-31.159	602.595	0.016	602.611	70.00	-39.535	602.448	0.012	602.461	70.00	-47.907	602.303	0.006	602.309
	80.00	-24.127	602.623	0.004	602.627	80.00	-31.159	602.504	0.001	602.506	80.00	-39.800	602.358	-0.004	602.353	80.00	-48.436	602.212	-0.009	602.202
80.40	-24.127	602.619	0.003	602.623	80.40	-31.159	602.500	0.000	602.501	80.43	-39.811	602.353	-0.005	602.348	80.52	-48.464	602.207	-0.010	602.196	

NOTES:

- FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 16-17 SEE DRAWING NO. S-147.
- FOR DECK ELEVATIONS FOR REMAINDER OF SPAN 17-18 SEE DRAWING NO. S-153A.
- TABULATED DISTANCES ARE MEASURED FROM NORTH END IN EACH SPAN, ALONG CENTER LINE OF GIRDERS.
- TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB ALONG CENTER LINE OF GIRDERS.
- NORMAL OFFSETS ARE MEASURED FROM PROFILE GRADE LINE.
- POSITIVE OFFSETS PERTAIN TO POINTS WEST OF THE P.G.
- NEGATIVE OFFSETS PERTAIN TO POINTS EAST OF THE P.G.
- POSITIVE DEFLECTIONS INDICATE DOWNWARD DEFLECTIONS.
- NEGATIVE DEFLECTIONS INDICATE UPWARD DEFLECTIONS.

DECK ELEVATIONS-UNIT "F"

F.A.I. 74-SECTION 81-IHVB  
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED

DATE:

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY R.D. KOESTER  
DRAWN BY R.K. MILLER  
CHECKED *R.D. Koester*  
IN CHARGE E.S. MARTINS  
APPROVED W.G. HORN



	GIRDER G-252					GIRDER G-253					GIRDER G-254					GIRDER G-255					GIRDER G-256				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 17-18 (EXP. BRG. TO PIER 18)	0.00	4.000	603.018	-0.000	603.018	0.00	-3.031	602.919	-0.001	602.917	0.00	-10.063	602.819	0.000	602.819	0.00	-17.095	602.719	0.002	602.722	0.00	-24.127	602.619	0.003	602.623
	10.00	4.000	602.978	0.000	602.979	10.00	-3.031	602.864	-0.000	602.864	10.00	-10.063	602.751	0.001	602.753	10.00	-17.095	602.637	0.006	602.644	10.00	-24.127	602.523	0.008	602.532
	14.74	4.000	602.959	0.000	602.960	14.74	-3.031	602.839	0.000	602.839	14.74	-10.063	602.718	0.002	602.721	14.74	-17.095	602.598	0.008	602.607	14.74	-24.127	602.478	0.010	602.489
SPAN 18-19	0.00	4.000	602.959	0.000	602.960	0.00	-3.031	602.839	0.000	602.839	0.00	-10.063	602.718	0.002	602.721	0.00	-17.095	602.598	0.008	602.607	0.00	-24.127	602.478	0.010	602.489
	10.00	4.000	602.919	0.010	602.929	10.00	-3.149	602.783	0.011	602.794	10.00	-10.063	602.650	0.014	602.665	10.00	-17.095	602.516	0.021	602.538	10.00	-24.127	602.382	0.024	602.407
	20.00	4.000	602.879	0.019	602.899	20.00	-3.267	602.726	0.022	602.748	20.00	-10.063	602.582	0.026	602.609	20.00	-17.095	602.434	0.034	602.469	20.00	-24.127	602.286	0.038	602.325
	30.00	4.000	602.839	0.025	602.865	30.00	-3.385	602.668	0.030	602.699	30.00	-10.063	602.514	0.034	602.549	30.00	-17.095	602.352	0.044	602.396	30.00	-24.127	602.190	0.049	602.239
	40.00	4.000	602.799	0.028	602.828	40.00	-3.503	602.611	0.034	602.645	40.00	-10.063	602.446	0.039	602.486	40.00	-17.095	602.270	0.050	602.320	40.00	-24.127	602.094	0.055	602.150
	50.00	4.000	602.759	0.031	602.790	50.00	-3.621	602.553	0.039	602.592	50.00	-10.063	602.378	0.044	602.423	50.00	-17.095	602.187	0.056	602.244	50.00	-24.127	601.998	0.062	602.060
	60.00	4.000	602.719	0.022	602.742	60.00	-3.738	602.494	0.030	602.524	60.00	-10.061	602.310	0.036	602.347	60.00	-17.093	602.105	0.048	602.154	60.00	-24.125	601.902	0.054	601.956
	70.00	4.000	602.679	0.013	602.693	70.00	-3.816	602.436	0.022	602.458	70.00	-10.022	602.242	0.028	602.271	70.00	-17.053	602.023	0.040	602.064	70.00	-24.085	601.805	0.046	601.852
	80.00	4.000	602.639	0.005	602.645	80.00	-3.842	602.379	0.013	602.392	80.00	-9.929	602.177	0.020	602.197	80.00	-16.960	601.943	0.032	601.975	80.00	-23.991	601.709	0.038	601.767
	90.00	4.000	602.606	-0.001	602.604	90.00	-3.815	602.331	0.004	602.336	90.00	-9.784	602.120	0.011	602.132	90.00	-16.814	601.872	0.023	601.895	90.00	-23.845	601.623	0.029	601.653
	98.82	4.000	602.586	-0.008	602.578	98.66	-3.749	602.300	-0.002	602.297	98.52	-9.618	602.083	0.004	602.088	98.37	-16.651	601.823	0.015	601.839	98.22	-23.685	601.563	0.022	601.585
SPAN 19-20	0.00	4.000	602.586	-0.008	602.578	0.00	-3.749	602.300	-0.002	602.297	0.00	-9.618	602.083	0.004	602.088	0.00	-16.651	601.823	0.015	601.839	0.00	-23.685	601.563	0.022	601.585
	10.00	4.000	602.571	0.004	602.575	10.00	-3.942	602.269	0.007	602.276	10.00	-9.957	602.040	0.013	602.054	10.00	-17.018	601.772	0.024	601.796	10.00	-24.079	601.505	0.030	601.536
	20.00	4.000	602.562	0.016	602.579	20.00	-4.082	602.255	0.019	602.273	20.00	-10.243	602.021	0.022	602.043	20.00	-17.331	601.751	0.032	601.784	20.00	-24.421	601.492	0.038	601.530
	30.00	4.000	602.565	0.029	602.594	30.00	-4.170	602.254	0.027	602.282	30.00	-10.476	602.015	0.030	602.045	30.00	-17.592	601.744	0.039	601.784	30.00	-24.709	601.491	0.044	601.536
	40.00	4.000	602.579	0.042	602.622	40.00	-4.205	602.267	0.036	602.304	40.00	-10.656	602.022	0.037	602.060	40.00	-17.800	601.751	0.046	601.798	40.00	-24.944	601.500	0.050	601.551
	50.00	4.000	602.604	0.055	602.659	50.00	-4.187	602.294	0.044	602.338	50.00	-10.784	602.044	0.044	602.088	50.00	-17.954	601.772	0.051	601.823	50.00	-25.126	601.521	0.054	601.576
	60.00	4.000	602.641	0.050	602.692	60.00	-4.116	602.334	0.039	602.373	60.00	-10.859	602.078	0.038	602.116	60.00	-18.056	601.806	0.043	601.849	60.00	-25.254	601.554	0.046	601.600
	70.00	4.000	602.689	0.045	602.735	70.00	-3.993	602.387	0.034	602.421	70.00	-10.880	602.126	0.032	602.158	70.00	-18.104	601.853	0.036	601.890	70.00	-25.330	601.597	0.038	601.636
	80.00	4.000	602.748	0.036	602.784	80.00	-3.818	602.453	0.024	602.478	80.00	-10.849	602.188	0.021	602.210	80.00	-18.100	601.914	0.024	601.939	80.00	-25.330	601.597	0.038	601.636
	90.00	4.000	602.819	0.022	602.842	90.00	-3.589	602.534	0.012	602.547	90.00	-10.766	602.263	0.009	602.273	90.00	-18.042	601.989	0.010	602.000	90.00	-25.321	601.720	0.011	601.731
	98.74	4.000	602.890	0.010	602.901	98.33	-3.359	602.611	0.003	602.614	98.00	-10.661	602.333	-0.000	602.333	97.63	-17.963	602.056	0.000	602.056	97.26	-25.265	601.777	0.000	601.777
SPAN 20-21 (PIER 20 TO EXP. BRG.)	0.00	4.000	602.890	0.010	602.901	0.00	-3.359	602.611	0.003	602.614	0.00	-10.661	602.333	-0.000	602.333	0.00	-17.963	602.056	0.000	602.056	0.00	-25.265	601.777	0.000	601.777
	10.00	4.000	602.982	0.008	602.990	10.00	-3.332	602.704	0.001	602.706	10.00	-10.633	602.427	-0.001	602.425	10.00	-17.935	602.150	-0.002	602.147	10.00	-25.236	601.863	-0.003	601.860
	14.74	4.000	603.030	0.007	603.037	14.74	-3.301	602.753	0.001	602.754	14.74	-10.602	602.476	-0.002	602.474	14.74	-17.903	602.199	-0.003	602.195	14.74	-25.204	601.909	-0.005	601.904

	GIRDER G-257					GIRDER G-258					GIRDER G-259					GIRDER G-260					GIRDER G-261				
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
SPAN 17-18 (EXP. BRG. TO PIER 18)	0.00	-31.159	602.500	0.000	602.501	0.00	-38.190	602.381	-0.004	602.376	0.00	-43.327	602.294	-0.008	602.285	0.00	-48.464	602.207	-0.010	602.196	0.00	-48.464	602.109	-0.005	602.104
	10.00	-31.159	602.406	0.005	602.412	10.00	-38.190	602.289	0.000	602.289	10.00	-43.581	602.199	-0.003	602.196	10.00	-48.993	602.109	-0.005	602.104	10.00	-48.993	602.063	-0.002	602.060
	14.74	-31.159	602.362	0.008	602.370	14.74	-38.190	602.246	0.002	602.248	14.75	-43.702	602.155	-0.000	602.154	14.77	-49.245	602.063	-0.002	602.060	14.77	-49.245	602.063	-0.002	602.060
SPAN 18-19	0.00	-31.159	602.362	0.008	602.370	0.00	-38.190	602.246	0.002	602.248	0.00	-43.702	602.155	-0.000	602.154	0.00	-49.245	602.063	-0.002	602.060	0.00	-49.245	602.063	-0.002	602.060
	10.00	-31.158	602.268	0.022	602.291	10.00	-38.190	602.154	0.016	602.170	10.00	-43.957	602.060	0.010	602.071	10.00	-49.774	601.966	0.008	601.974	10.00	-49.774	601.966	0.008	601.974
	20.00	-31.158	602.174	0.037	602.212	20.00	-38.190	602.062	0.030	602.092	20.00	-44.211	601.967	0.022	601.989	20.00	-50.303	601.870	0.019	601.889	20.00	-50.303	601.870	0.019	601.889
	30.00	-31.158	602.080	0.047	602.128	30.00	-38.190	601.970	0.040	602.010	30.00	-44.465	601.872	0.030	601.903	30.00	-50.832	601.773	0.025	601.798	30.00	-50.832	601.773	0.025	601.798
	40.00	-31.158	601.985	0.054	602.039	40.00	-38.190	601.875	0.046	601.921	40.00	-44.719	601.773	0.034	601.808	40.00	-51.380	601.669	0.027	601.696	40.00	-51.380	601.669	0.027	601.696
	50.00	-31.158	601.889	0.061	601.950	50.00	-38.190	601.779	0.052	601.832	50.00	-44.973	601.674	0.038	601.712	50.00	-51.979	601.565	0.029	601.594	50.00	-51.979	601.565	0.029	601.594
	60.00	-31.157	601.793	0.053	601.846	60.00	-38.188	601.683	0.045	601.729	60.00	-45.226	601.574	0.030	601.605	60.00	-52.629	601.460	0.020	601.480	60.00	-52.629	601.460	0.020	601.480
	70.00	-31.116	601.696	0.046	601.742	70.																			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 1.74	81-IHVB	ROCK ISLAND	298	196-A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 1-74	

	GIRDER G-252					GIRDER G-253					GIRDER G-254					GIRDER G-255					GIRDER G-256																																																																																																																																																																																																																																																															
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION																																																																																																																																																																																																																																																											
SPAN 17-18 (EXP. BRG. TO PIER 18)	0.00	4.000	603.018	-0.000	603.018	0.00	-3.031	602.919	-0.001	602.917	0.00	-10.063	602.819	0.000	602.819	0.00	-17.095	602.719	0.002	602.722	0.00	-24.127	602.619	0.003	602.623	10.00	4.000	602.978	0.000	602.979	10.00	-3.031	602.864	-0.000	602.864	10.00	-10.063	602.751	0.001	602.753	10.00	-17.095	602.637	0.006	602.644	10.00	-24.127	602.523	0.008	602.532	14.74	4.000	602.959	0.000	602.960	14.74	-3.031	602.839	0.000	602.839	14.74	-10.063	602.718	0.002	602.721	14.74	-17.095	602.598	0.008	602.607	14.74	-24.127	602.478	0.010	602.489																																																																																																																																																																																																									
SPAN 18-19	0.00	4.000	602.959	0.000	602.960	0.00	-3.031	602.839	0.000	602.839	0.00	-10.063	602.718	0.002	602.721	0.00	-17.095	602.598	0.008	602.607	0.00	-24.127	602.478	0.010	602.489	10.00	4.000	602.919	0.010	602.929	10.00	-3.149	602.783	0.011	602.794	10.00	-10.063	602.650	0.014	602.665	10.00	-17.095	602.516	0.021	602.538	10.00	-24.127	602.382	0.024	602.407	20.00	4.000	602.879	0.019	602.899	20.00	-3.267	602.726	0.022	602.748	20.00	-10.063	602.582	0.026	602.609	20.00	-17.095	602.434	0.034	602.469	20.00	-24.127	602.266	0.038	602.325	30.00	4.000	602.839	0.025	602.865	30.00	-3.385	602.668	0.030	602.699	30.00	-10.063	602.514	0.034	602.549	30.00	-17.095	602.352	0.044	602.396	30.00	-24.127	602.190	0.049	602.239	40.00	4.000	602.799	0.028	602.828	40.00	-3.503	602.611	0.034	602.645	40.00	-10.063	602.446	0.039	602.486	40.00	-17.095	602.270	0.050	602.320	40.00	-24.127	602.094	0.055	602.150	50.00	4.000	602.759	0.031	602.790	50.00	-3.621	602.553	0.039	602.592	50.00	-10.063	602.378	0.044	602.423	50.00	-17.095	602.187	0.056	602.244	50.00	-24.127	601.998	0.062	602.060	60.00	4.000	602.719	0.022	602.742	60.00	-3.738	602.494	0.030	602.524	60.00	-10.063	602.310	0.036	602.347	60.00	-17.095	602.105	0.048	602.154	60.00	-24.127	601.902	0.054	601.956	70.00	4.000	602.679	0.013	602.693	70.00	-3.816	602.436	0.022	602.458	70.00	-10.022	602.242	0.028	602.271	70.00	-17.053	602.105	0.040	602.064	70.00	-24.085	601.805	0.046	601.852	80.00	4.000	602.639	0.005	602.645	80.00	-3.842	602.379	0.013	602.392	80.00	-9.929	602.177	0.020	602.197	80.00	-16.960	601.943	0.032	601.975	80.00	-23.991	601.709	0.038	601.747	90.00	4.000	602.606	-0.001	602.604	90.00	-3.815	602.331	0.004	602.336	90.00	-9.784	602.120	0.011	602.132	90.00	-16.814	601.872	0.023	601.895	90.00	-23.845	601.623	0.029	601.653	98.82	4.000	602.586	-0.008	602.578	98.66	-3.749	602.300	-0.002	602.297	98.52	-9.618	602.083	0.004	602.088	98.37	-16.651	601.823	0.015	601.839	98.22	-23.685	601.563	0.022	601.585	
	SPAN 19-20	0.00	4.000	602.586	-0.008	602.578	0.00	-3.749	602.300	-0.002	602.297	0.00	-9.618	602.083	0.004	602.088	0.00	-16.651	601.823	0.015	601.839	0.00	-23.685	601.563	0.022	601.585	10.00	4.000	602.571	0.004	602.575	10.00	-3.942	602.269	0.007	602.276	10.00	-9.957	602.040	0.013	602.054	10.00	-17.018	601.772	0.024	601.796	10.00	-24.079	601.505	0.030	601.536	20.00	4.000	602.562	0.016	602.579	20.00	-4.082	602.255	0.018	602.273	20.00	-10.243	602.021	0.022	602.043	20.00	-17.331	601.751	0.032	601.784	20.00	-24.421	601.492	0.038	601.530	30.00	4.000	602.565	0.029	602.594	30.00	-4.170	602.254	0.027	602.282	30.00	-10.476	602.015	0.030	602.045	30.00	-17.592	601.744	0.039	601.784	30.00	-24.709	601.491	0.044	601.536	40.00	4.000	602.579	0.042	602.622	40.00	-4.205	602.267	0.036	602.304	40.00	-10.656	602.022	0.037	602.060	40.00	-17.800	601.751	0.046	601.798	40.00	-24.944	601.500	0.050	601.551	50.00	4.000	602.604	0.055	602.659	50.00	-4.116	602.334	0.039	602.373	50.00	-10.859	602.078	0.038	602.116	50.00	-17.954	601.772	0.051	601.823	50.00	-25.126	601.521	0.054	601.576	60.00	4.000	602.641	0.050	602.692	60.00	-3.993	602.387	0.034	602.421	60.00	-10.880	602.126	0.032	602.158	60.00	-18.104	601.853	0.036	601.890	60.00	-25.254	601.554	0.043	601.600	70.00	4.000	602.689	0.045	602.735	70.00	-3.818	602.453	0.024	602.478	70.00	-10.849	602.188	0.021	602.210	70.00	-18.104	601.853	0.036	601.890	70.00	-25.330	601.597	0.038	601.636	80.00	4.000	602.748	0.036	602.786	80.00	-3.818	602.453	0.024	602.478	80.00	-10.849	602.188	0.021	602.210	80.00	-18.100	601.914	0.024	601.939	80.00	-25.352	601.653	0.025	601.679	90.00	4.000	602.819	0.022	602.842	90.00	-3.589	602.534	0.012	602.547	90.00	-10.766	602.263	0.009	602.273	90.00	-18.042	601.989	0.010	602.000	90.00	-25.321	601.720	0.011	601.731	98.74	4.000	602.890	0.010	602.901	98.33	-3.359	602.611	0.003	602.614	98.00	-10.661	602.333	-0.000	602.333	97.63	-17.963	602.056	0.000	602.056	97.26	-25.265	601.777	0.000	601.777
		SPAN 20-21 (PIER 20 TO EXP. BRG.)	0.00	4.000	602.890	0.010	602.901	0.00	-3.359	602.611	0.003	602.614	0.00	-10.661	602.333	-0.000	602.333	0.00	-17.963	602.056	0.000	602.056	0.00	-25.265	601.777	0.000	601.777	10.00	4.000	602.982	0.008	602.990	10.00	-3.332	602.704	0.001	602.706	10.00	-10.633	602.427	-0.001	602.425	10.00	-17.935	602.150	-0.002	602.147	10.00	-25.236	601.863	-0.003	601.860	14.74	4.000	603.030	0.007	603.037	14.74	-3.301	602.753	0.001	602.754	14.74	-10.602	602.476	-0.002	602.474	14.74	-17.903	602.199	-0.003	602.195	14.74	-25.204	601.909	-0.005	601.904																																																																																																																																																																																																							

	GIRDER G-257					GIRDER G-258					GIRDER G-259					GIRDER G-260					GIRDER G-261																																																																																																																																																																																																							
	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION																																																																																																																																																																																																			
SPAN 17-18 (EXP. BRG. TO PIER 18)	0.00	-31.159	602.500	0.000	602.501	0.00	-38.190	602.381	-0.004	602.376	0.00	-43.327	602.294	-0.008	602.285	0.00	-48.464	602.207	-0.010	602.196	0.00	-48.464	602.207	-0.010	602.196	10.00	-31.159	602.406	0.005	602.412	10.00	-38.190	602.289	0.000	602.289	10.00	-43.581	602.199	-0.003	602.196	10.00	-48.993	602.109	-0.005	602.104	14.74	-31.159	602.362	0.008	602.370	14.74	-38.190	602.246	0.002	602.248	14.75	-43.702	602.155	-0.000	602.154	14.77	-49.245	602.063	-0.002	602.060																																																																																																																																																											
SPAN 18-19	0.00	-31.159	602.362	0.008	602.370	0.00	-38.190	602.246	0.002	602.248	0.00	-43.702	602.155	-0.000	602.154	0.00	-49.245	602.063	-0.002	602.060	10.00	-31.158	602.268	0.022	602.291	10.00	-38.190	602.170	0.016	602.170	10.00	-43.957	602.060	0.010	602.071	10.00	-49.774	601.966	0.008	601.974	20.00	-31.158	602.174	0.037	602.212	20.00	-38.190	602.062	0.030	602.092	20.00	-44.211	601.967	0.022	601.989	20.00	-50.303	601.870	0.019	601.889	30.00	-31.158	602.080	0.047	602.128	30.00	-38.190	602.070	0.040	602.010	30.00	-44.465	601.872	0.030	601.903	30.00	-50.832	601.773	0.025	601.798	40.00	-31.158	601.985	0.054	602.039	40.00	-38.190	601.875	0.046	601.921	40.00	-44.719	601.773	0.034	601.808	40.00	-51.380	601.669	0.027	601.696	50.00	-31.158	601.889	0.061	601.950	50.00	-38.190	601.779	0.052	601.832	50.00	-44.973	601.674	0.038	601.712	50.00	-51.979	601.565	0.029	601.594	60.00	-31.157	601.793	0.053	601.846	60.00	-38.190	601.683	0.045	601.729	60.00	-45.226	601.574	0.030	601.605	60.00	-52.629	601.460	0.020	601.480	70.00	-31.116	601.696	0.046	601.742	70.00	-38.188	601.586	0.038	601.624	70.00	-45.440	601.473	0.022	601.495	70.00	-53.293	601.352	0.011	601.363	80.00	-31.023	601.601	0.038	601.639	80.00	-38.054	601.493	0.030	601.524	80.00	-45.600	601.378	0.015	601.398	80.00	-53.956	601.251	0.003	601.254	90.00	-30.876	601.523	0.029	601.553	90.00	-37.906	601.427	0.022	601.450	90.00	-45.706	601.320	0.009	601.329	90.00	-54.617	601.199	-0.002	601.197	98.06	-30.718	601.469	0.022	601.492	97.91	-37.752	601.382	0.016	601.399	97.77	-45.752	601.284	0.004	601.288	97.75	-55.129	601.169	-0.008	601.161
	SPAN 19-20</																																																																																																																																																																																																																											