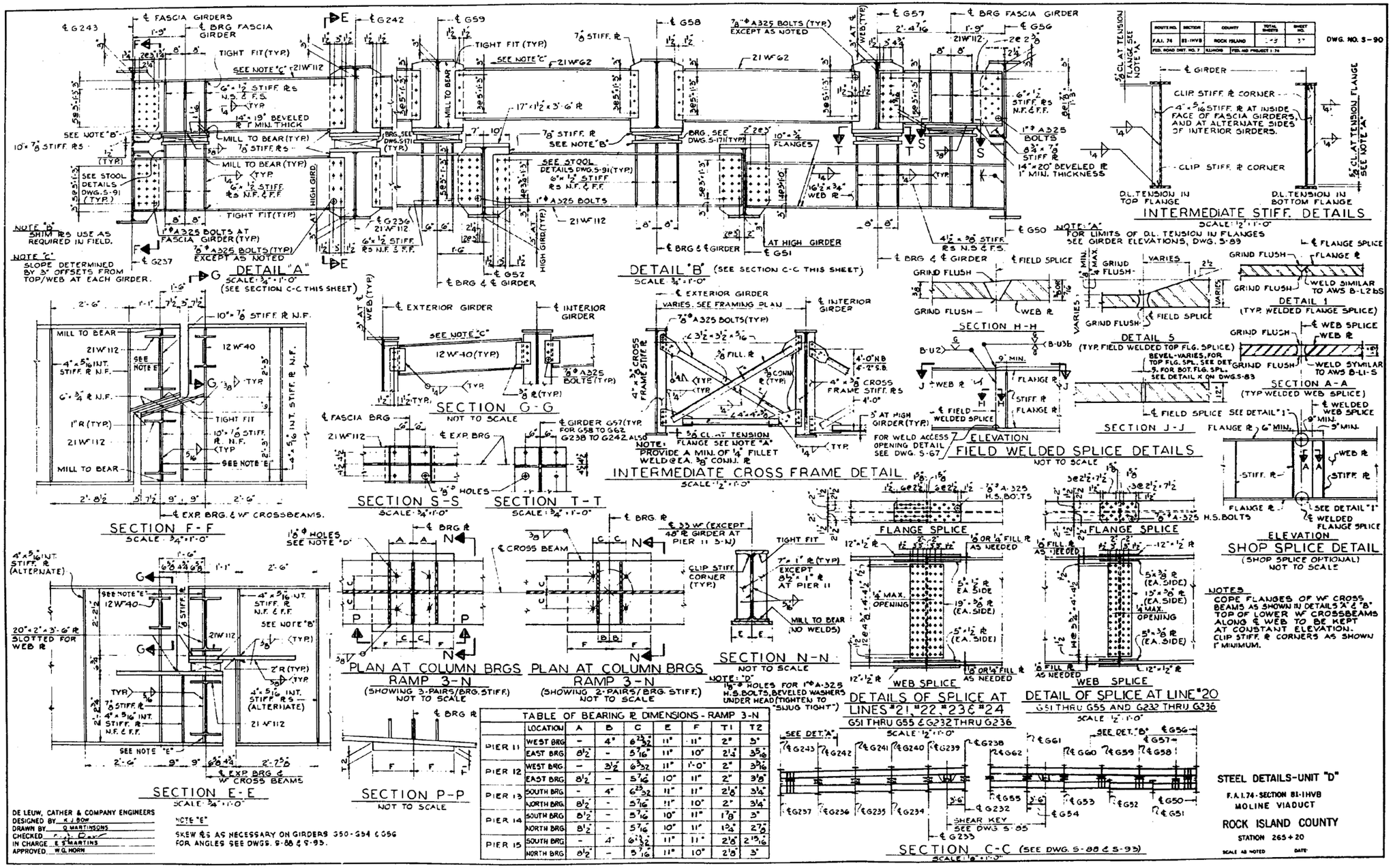


TABLE OF BEARING R DIMENSIONS - RAMP 3-N								
	LOCATION	A	B	C	E	F	T1	T2
PIER 11	WEST BRG	–	4"	6 23/32"	11"	11"	2"	3"
	EAST BRG	8 1/2"	–	5 7/16"	11"	10"	2 1/8"	3 5/16"
PIER 12	WEST BRG	–	3 1/2"	6 23/32"	11"	1'-0"	2"	3 3/16"
	EAST BRG	8 1/2"	–	5 7/16"	10"	11"	2"	3 1/8"
PIER 13	SOUTH BRG	–	4"	6 23/32"	11"	11"	2 1/8"	3 1/16"
	NORTH BRG	8 1/2"	–	5 7/16"	11"	10"	2"	3 1/16"
PIER 14	SOUTH BRG	8 1/2"	–	5 7/16"	10"	11"	1 7/8"	3"
	NORTH BRG	8 1/2"	–	5 7/16"	10"	11"	1 3/4"	2 7/8"
PIER 15	SOUTH BRG	–	4"	6 23/32"	11"	11"	2 1/8"	2 15/16"
	NORTH BRG	8 1/2"	–	5 7/16"	11"	10"	2 1/8"	3"

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 73 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

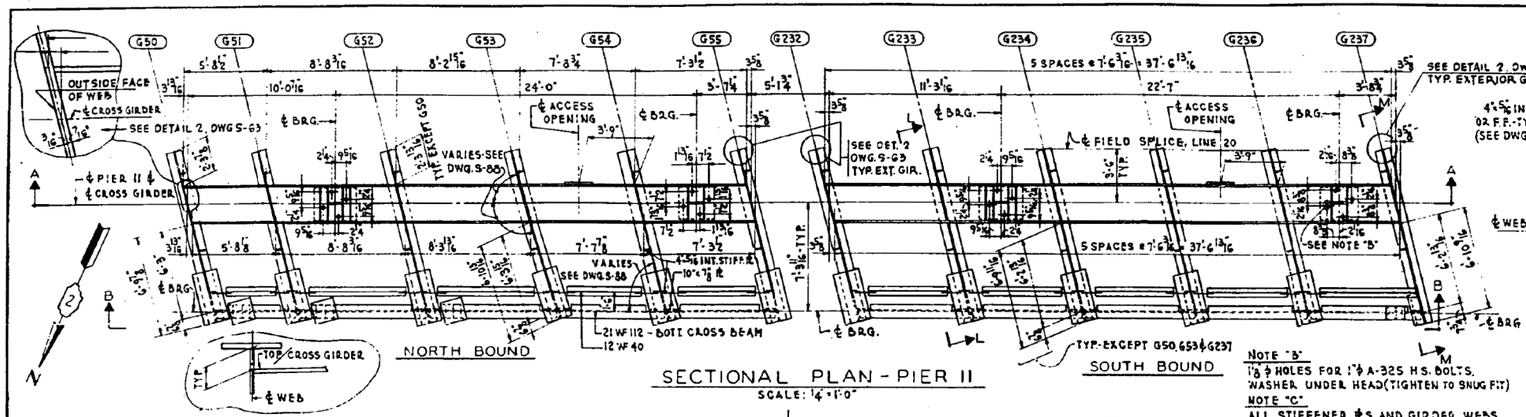
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX82 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	701
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	298	38
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # -76		

DWG. NO. S-91

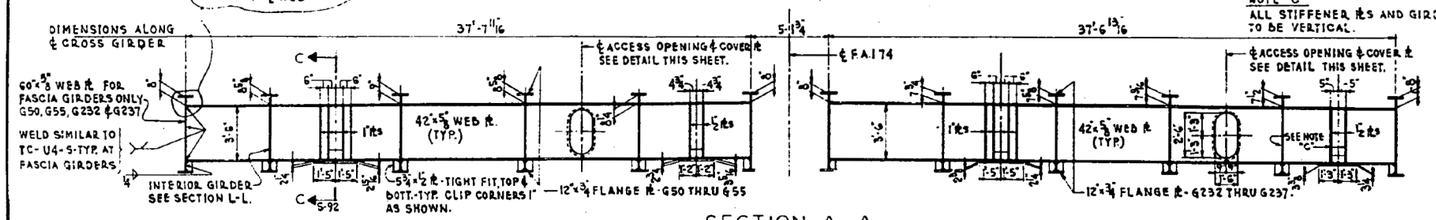


SECTIONAL PLAN - PIER II

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

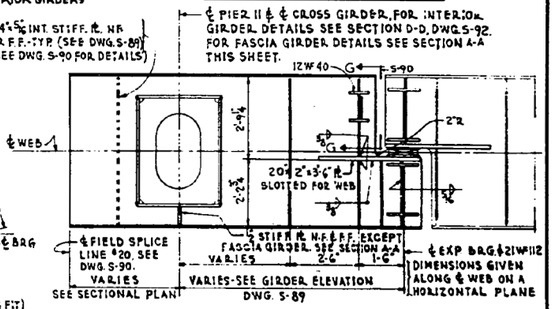
NOTE "B"
1⅛ ϕ HOLES FOR 1" ϕ A-325 H.S. BOLTS. WASHER UNDER HEAD (TIGHTEN TO SNUG FIT)

NOTE "C"
ALL STIFFENER ℔s AND GIRDER WEBS TO BE VERTICAL.



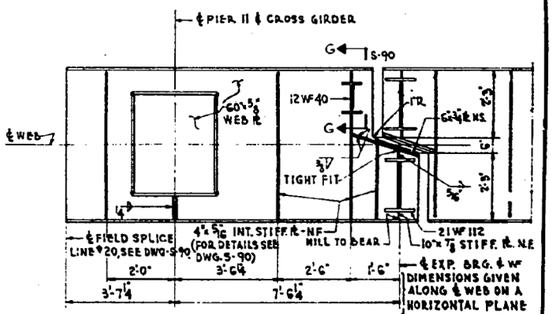
SECTION A-A

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



SECTION L-L (TYP. EXCEPT G237)

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

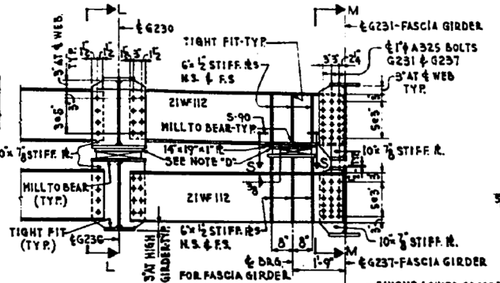


SECTION M-M (G237 ONLY)

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

DETAIL "A"

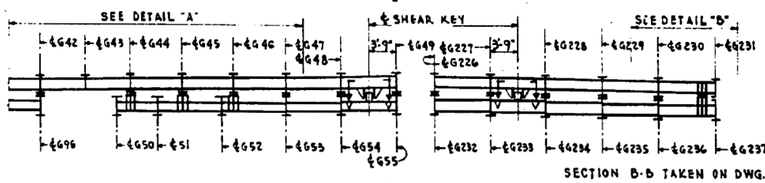
SCALE: 1/2" = 1'-0"



DETAIL "B"

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

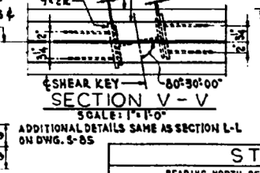
STOOL DETAILS

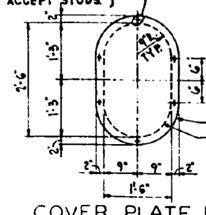


SECTION B-B

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

SECTION B-B TAKEN ON DWG. S-89 ℄ ON SECTIONAL PLAN THIS DWG.





COVER PLATE DETAIL

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

NOTE "D": SHIM PLATES, USE AS REQUIRED IN FIELD.

NOTE "E": SLOPE DETERMINED BY 3" OFFSETS FROM TOP OF WEB AT EACH GIRDER

STOOL SCHEDULE

BEARING NORTH OF PIER 11							BEARING SOUTH OF PIER 13						
GIRD.	"A"	"B"	"C"	"D"	W A	∠ "E"	GIRD.	"A"	"B"	"C"	"D"	W A	∠ "E"
G44	18"	20"	5"	2⅛"	18 W 98	78°-18'-48"	G56	11"	19"	6½	2⅝	18 W 78	90°-90'-00"
G45	18"	20"	5"	2⅝"	00	78°-18'-48"	G57	11"	19"	6½	2⅝	18 W 78	00
G48	18"	20"	5"	2⅛"	00	78°-18'-48"	G58	13"	18"	5"	3¾	18 W 96	00
G231	13"	18"	5"	1⅛"	16 W 96	90°-00'-00"	G59	13"	18"	5"	3¾	12 W 79	00
							G243	13"	18"	5"	1⅝	18 W 96	90°-90'-00"

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

CROSS GIRDERS AT PIER II (N.B. & S.B.) AND MISC. DETAILS

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

Contract AB Demo_Rosters.brg
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1/18/2017

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

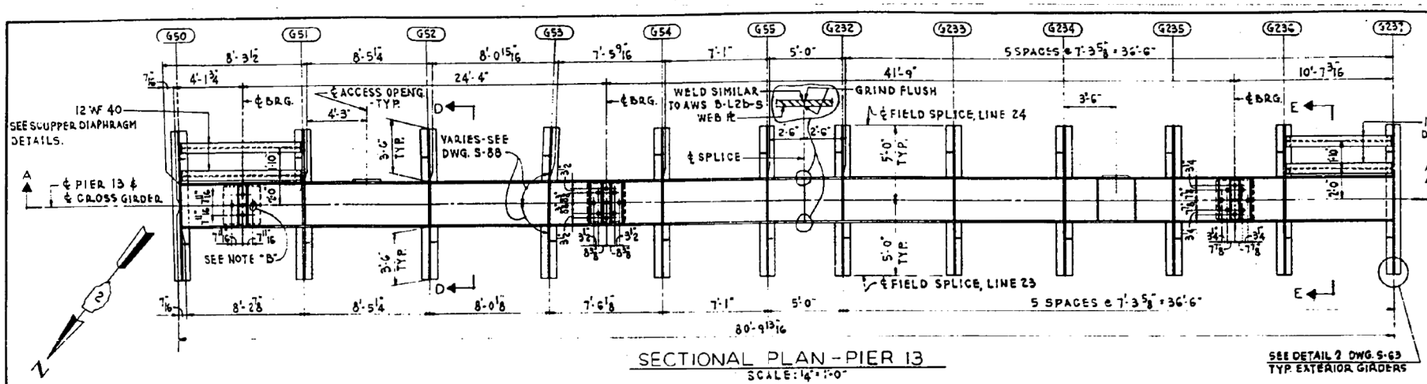
FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 74 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

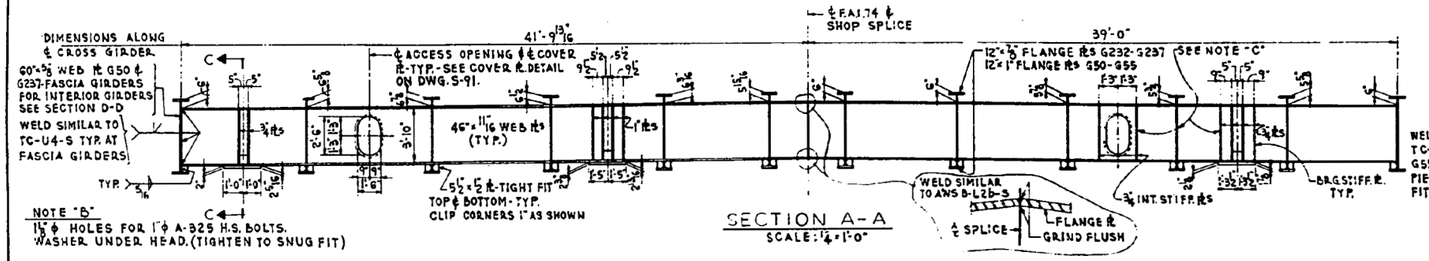
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX83 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	702
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

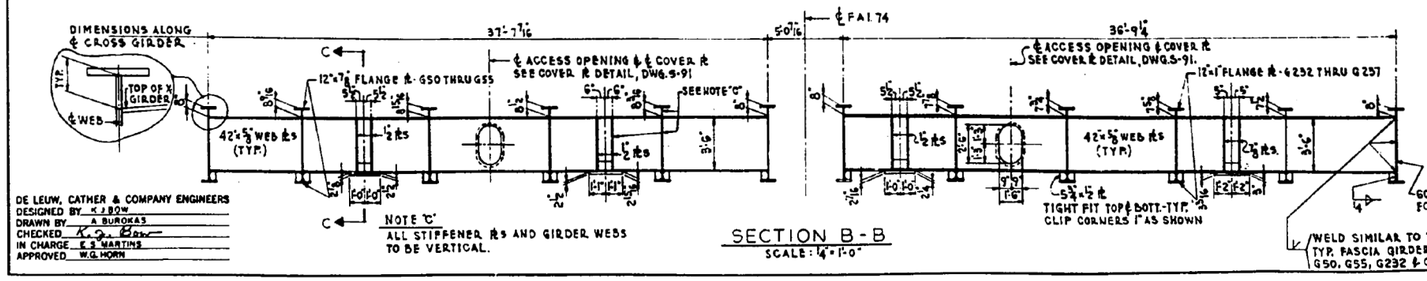


SECTIONAL PLAN - PIER 13
SCALE: 1/4" = 1'-0"

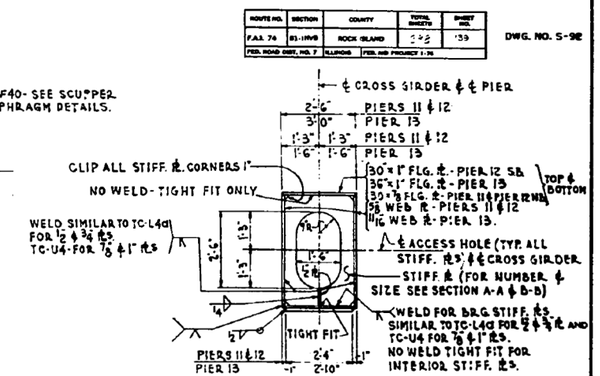


SECTION A-A
SCALE: 1/4" = 1'-0"

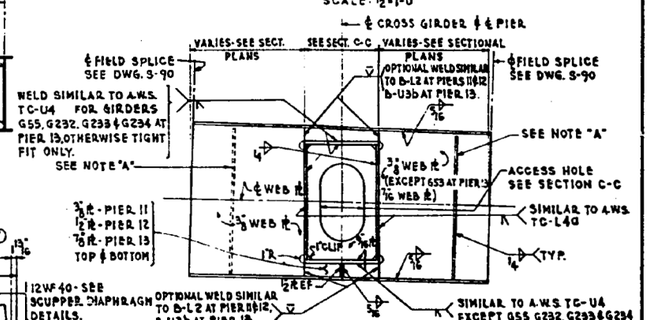
SECTIONAL PLAN - PIER 12
SCALE: 1/4" = 1'-0"



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

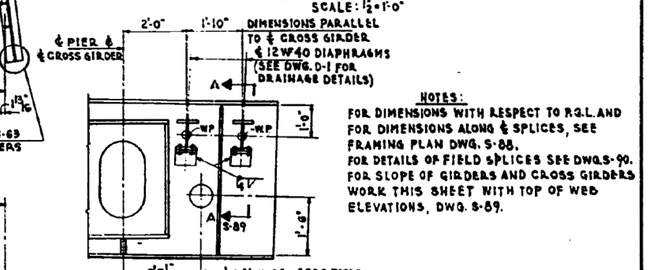


SECTION C-C
SCALE: 1/2" = 1'-0"





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



SECTION E-E
SCUPPER DIAPHRAGM DETAIL
SCALE: 1/2" = 1'-0"

NOTES:
FOR DIMENSIONS WITH RESPECT TO R.G.L. AND FOR DIMENSIONS ALONG ℄ SPLICES, SEE FRAMING PLAN DWG. S-88.
FOR DETAILS OF FIELD SPLICES SEE DWGS. S-90.
FOR SLOPE OF GIRDERS AND CROSS GIRDERS WORK THIS SHEET WITH TOP OF WEB ELEVATIONS, DWG. S-89.

CROSS GIRDERS AT PIERS 12 (N.B.), 12 (S.B.) AND 13
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 K.J.BOW
DRAWN BY A.BUROKAS
CHECKED K.J. Bow
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	1504	159
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

DWG. NO. S-92

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0818178-A0321-002-Contract AB Demo_Rasters.dgn	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 75 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

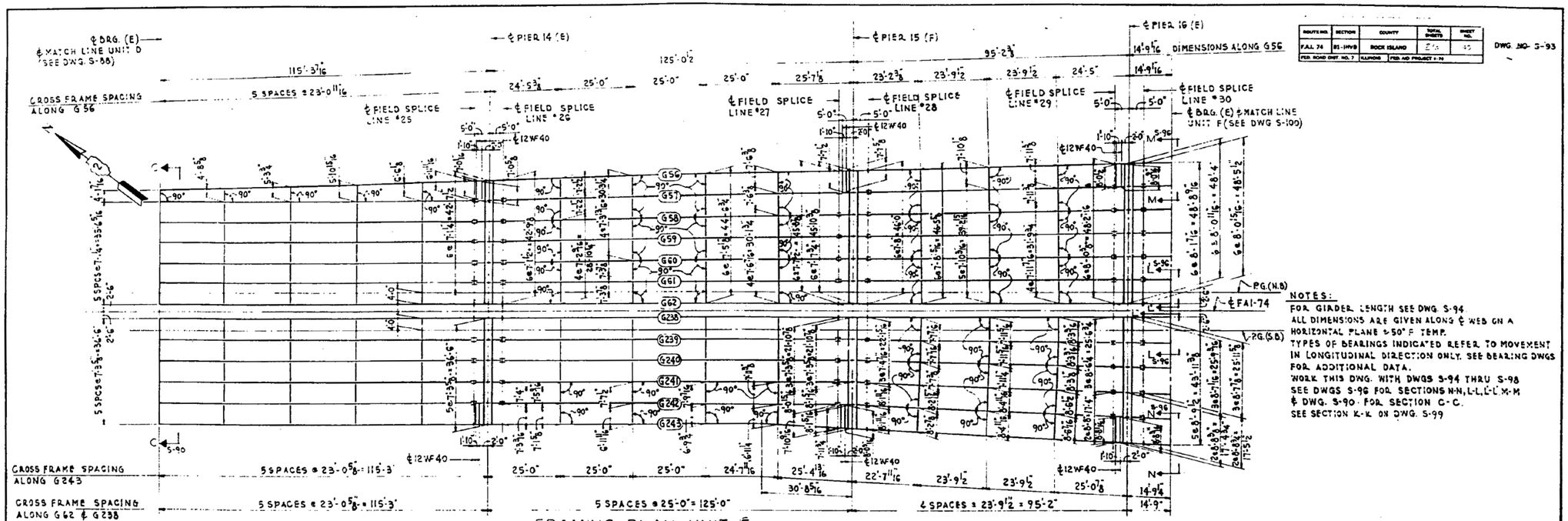
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX84 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	703
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	[illegible]	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # [illegible]		

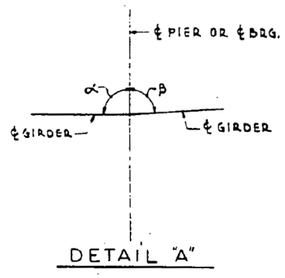
DWG. NO. S-93



FRAMING PLAN - UNIT E

SCALE: 1/16" = 1'-0"

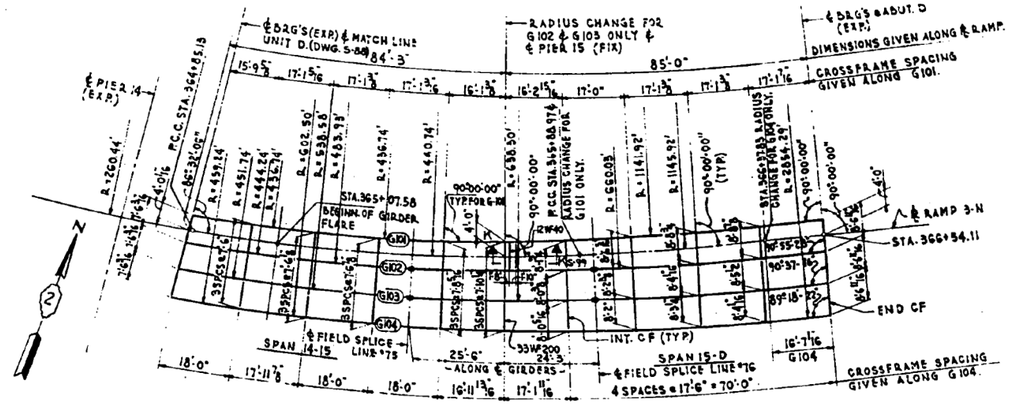
NOTES:
FOR GIRDER LENGTH SEE DWG. S-94
ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONTAL PLANE @ 50° F TEMP.
TYPES OF BEARINGS INDICATED REFER TO MOVEMENT IN LONGITUDINAL DIRECTION ONLY. SEE BEARING DWGS FOR ADDITIONAL DATA.
WORK THIS DWG. WITH DWGS S-94 THRU S-98
SEE DWGS S-96 FOR SECTIONS N-N, L-L, L'-L', M-M
℄ DWG. S-90 FOR SECTION C-C.
SEE SECTION K-K ON DWG. S-99



DETAIL "A"

GIRDER	BRG-SPAN 15-14 N.B.	PIER 14 N.B.		PIER 15 N.B.		PIER 16 N.B.		BRG-SPAN 16-17 N.B.
	β	α	β	α	β	α	β	α
G56	88°-31'-00"	91°-29'-00"	88°-31'-00"	91°-29'-00"	88°-31'-00"	91°-29'-00"	88°-31'-00"	91°-29'-00"
G57	90°-00'-00"	90°-00'-00"	88°-45'-50"	91°-14'-10"	88°-45'-50"	91°-14'-10"	88°-45'-50"	91°-14'-10"
G58	90°-00'-00"	90°-00'-00"	89°-00'-40"	90°-59'-20"	89°-00'-40"	90°-59'-20"	89°-00'-40"	90°-59'-20"
G59	90°-00'-00"	90°-00'-00"	89°-15'-30"	90°-44'-30"	89°-15'-30"	90°-44'-30"	89°-15'-30"	90°-44'-30"
G60	90°-00'-00"	90°-00'-00"	89°-30'-20"	90°-29'-40"	89°-30'-20"	90°-29'-40"	89°-30'-20"	90°-29'-40"
G61	90°-00'-00"	90°-00'-00"	89°-45'-10"	90°-14'-50"	89°-45'-10"	90°-14'-50"	89°-45'-10"	90°-14'-50"
G62	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"

GIRDER	BRG-SPAN 13-14 S.B.	PIER 14 S.B.		PIER 15 S.B.		PIER 16 S.B.		BRG-SPAN 16-17 S.B.
	β	α	β	α	β	α	β	α
G238	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"
G239	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-45'-34"	89°-13'-26"	90°-46'-34"	89°-13'-26"
G240	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	91°-33'-8"	88°-26'-52"	91°-33'-8"	88°-26'-52"
G241	90°-00'-00"	90°-00'-00"	90°-00'-00"	90°-00'-00"	92°-19'-39"	87°-40'-21"	92°-19'-39"	87°-40'-21"
G242	90°-00'-00"	90°-00'-00"	90°-22'-20"	89°-37'-41"	92°-40'-47"	87°-19'-13"	92°-40'-47"	87°-19'-13"
G243	90°-00'-00"	90°-00'-00"	90°-00'-00"	86°-58'-5"	93°-1'-55"	86°-58'-5"	93°-1'-55"	86°-58'-5"



FRAMING PLAN UNIT E RAMP 3-N

SCALE: 1/16" = 1'-0"

FRAMING PLAN UNIT "E" MAINLINE AND RAMP (3-N)

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 S. RASHID
DRAWN BY A. BUKOKAS
CHECKED
IN CHARGE K. S. WARTING
APPROVED W. G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 76 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

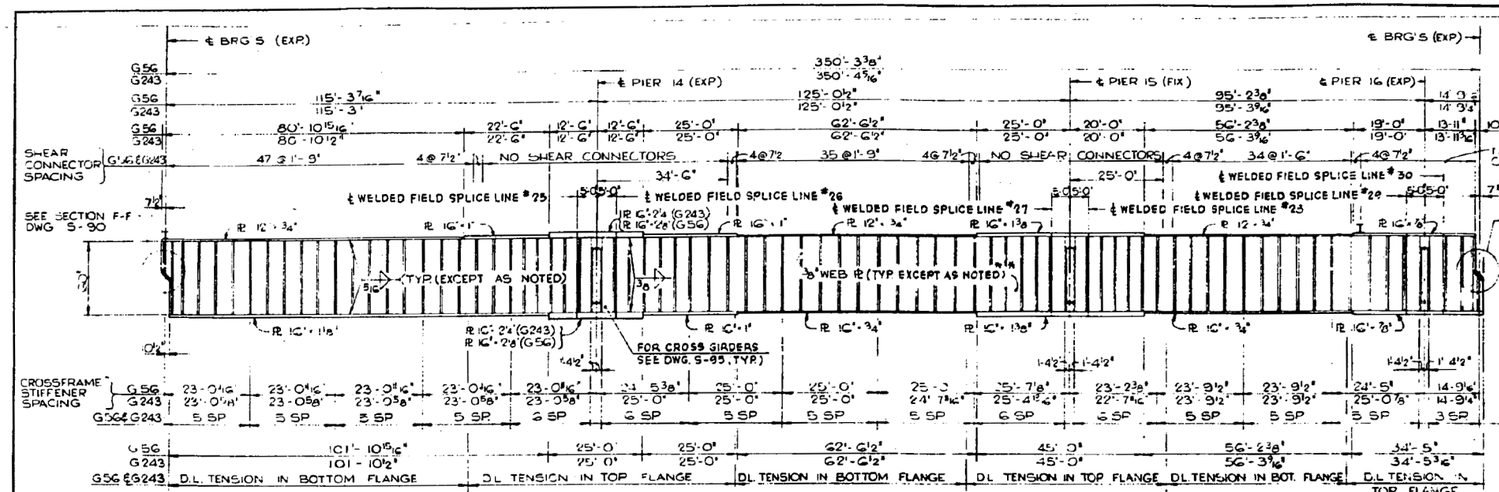
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX85 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	704
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	[illegible]	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # IN		

DWG NO. S-94

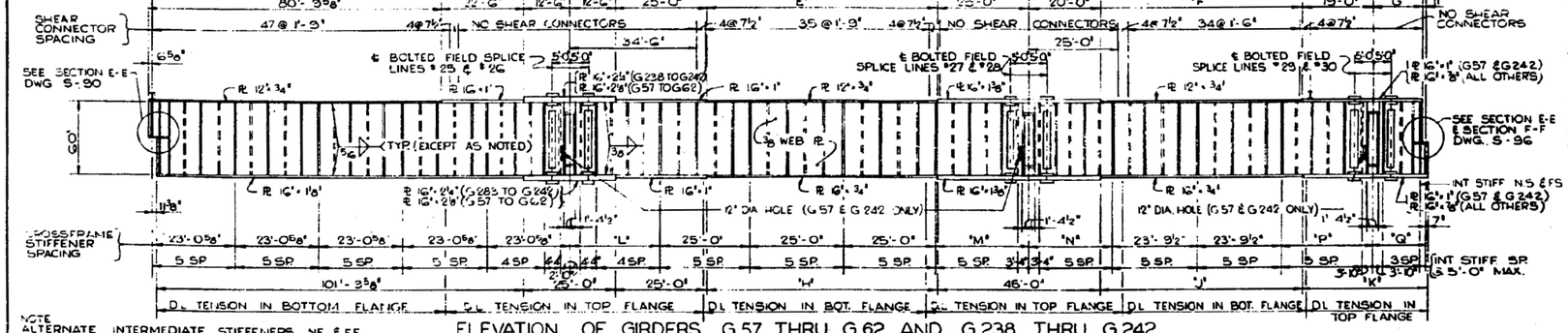


NOTE:
INTERMEDIATE & CROSSFRAME STIFFENERS ON INTERIOR FACE ONLY FOR GIRDERS G56 & G243

ELEVATION OF GIRDERS G 56 & G 243

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

** USE 60" x 5⁄8" WEB PL IN SECTIONS OVER PIERS, BETWEEN SPLICES - SEE DETAIL 2, DWG. S-93



NOTE
ALTERNATE INTERMEDIATE STIFFENERS NF & FF AS SHOWN FOR GIRDERS G57 THRU G 62 & G 238 - G 242 ONLY.

ELEVATION OF GIRDERS G 57 THRU G 62 AND G 238 THRU G 242

SCALE: 1⁄16" = 1'-0" HORIZ, 1⁄4"-1'-0" VERT.

INTERIOR GIRDER MOMENT TABLE

	0.45 SPAN 3-4	℄ PIER 14	0.50 SPAN 4-5	℄ PIER 15	0.50 SPAN 5-6	℄ PIER 16
Is (in⁴)	30321	58936	25935	48132	25935	32692
Ic (in⁴)	73062		63769		63769	
Ss (in³)	1185	2372	910	1539	910	960
Sc (in³)	1601		232		232	
DL (k/ft)	0.265	0.265	0.394	0.394	1.073	1.073
M DL (ft-k)	845	1908.0	467.8	1156.1	357.3	568.5
fs DL (ksi)	8.24	3.05	6.05	9.0	4.71	5.65
S DL (k/ft)	0.268	0.268	0.268	0.268	0.268	0.268
M SDL (ft-k)	265.3	403.1	32.3	257.7	35	155.3
M LL (ft-k)	392	370	530	838	910	681
M IMP (ft-k)	105.1	201.1	181.2	478.5	206.8	84.5
TOTAL (ft-k)	1463.0	1574.2	1274.1	2753.2	2118	3308
fs LL (ksi)	10.98	7.97	12.4	9.95	11.88	11.22
fs TOTAL	13.22	17.02	8.45	18.95	16.59	7.38
VR (k)	49.2	62.7	51.9	69.5	54.9	28.4

LEGEND
Is AND Ss ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION
Ic AND Sc ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING fs
VR IS THE MAXIMUM LL AND IMPACT SHEAR RANGE

NOTES:
ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONTAL PLANE @ 50° F TEMP
ALL STRUCTURAL STEEL SHALL BE ASTM DESIGNATION A-36. SEE GENERAL NOTES. DWG. G-1.
WORK THIS SHEET WITH DWGS. S-90, S-95, S-96 & S-97
ALL BRG. STIFFENERS TO BE VERTICAL.
FOR FIELD SPLICE DETAIL SEE DWG. S-97
FOR SHOP SPLICE DETAIL SEE DWG. S-97
FOR SHEAR CONNECTOR DETAIL SEE DWGS. S-97.

TABLE OF DIMENSIONS AND SPACINGS

GIRDER	DIMENSIONS 'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	CROSSFRAME STIFFENER SPACING 'L'	'M'	'N'	'P'	'Q'
G 57	350'-2 5⁄8"	125'-0 1⁄4"	95'-2 1⁄4"	4'-9 1⁄2"	62'-6 1⁄2"	56'-2 1⁄4"	13'-10 1⁄8"	62'-6 1⁄8"	56'-2 1⁄4"	34'-4 1⁄8"	24'-7 7⁄16"	25'-4 3⁄8"	23'-4 3⁄8"	24'-2 1⁄4"	14'-9 1⁄16"
G 58	350'-2 7⁄16"	125'-0 1⁄4"	95'-2 3⁄8"	14'-9"	62'-6 1⁄4"	56'-2 3⁄8"	13'-10"	62'-6 1⁄4"	56'-2 3⁄8"	34'-4"	24'-9 1⁄16"	25'-3 5⁄16"	23'-6 5⁄16"	24'-0 7⁄8"	14'-9"
G 59	350'-2 1⁄4"	125'-0"	95'-2 1⁄8"	14'-9"	62'-6 1⁄8"	56'-2 1⁄8"	13'-10"	62'-6 1⁄8"	56'-2 1⁄8"	34'-4"	24'-10 1⁄16"	25'-1 5⁄16"	23'-7 5⁄16"	23'-11 3⁄8"	14'-9"
G 60	350'-2 1⁄8"	125'-0 1⁄16"	95'-2 1⁄16"	14'-9"	62'-6 1⁄16"	56'-2 1⁄16"	13'-10"	62'-6 1⁄16"	56'-2 1⁄16"	34'-4"	24'-11 1⁄16"	25'-0 5⁄16"	23'-8 5⁄16"	23'-10 5⁄16"	14'-9"
G 61	350'-2"	125'-0"	95'-2"	14'-9"	62'-6"	56'-2"	13'-10"	62'-6"	56'-2"	34'-4"	25'-0"	25'-0"	23'-9 1⁄2"	23'-9 1⁄2"	14'-9"
G 62	350'-2"	125'-0"	95'-2"	14'-3"	62'-6"	56'-2"	13'-10"	62'-6"	56'-2"	34'-4"	25'-0"	25'-0"	23'-9 1⁄2"	23'-9 1⁄2"	14'-9"
G 238	350'-2"	125'-0"	95'-2"	14'-9"	62'-6"	56'-2"	13'-10"	62'-6"	56'-2"	34'-4"	25'-0"	25'-0"	23'-9 1⁄2"	23'-9 1⁄2"	14'-9"
G 239	350'-2"	125'-0"	95'-2"	14'-9"	62'-6"	56'-2"	13'-10"	62'-6"	56'-2"	34'-4"	25'-0"	25'-0"	23'-9 1⁄2"	23'-9 1⁄2"	14'-9"
G 240	350'-2 3⁄8"	125'-0"	95'-2 1⁄16"	4'-9 1⁄2"	62'-6"	56'-2 1⁄16"	13'-10 1⁄8"	62'-6"	56'-2 1⁄16"	34'-4 1⁄16"	25'-0"	25'-0"	23'-7 1⁄8"	24'-0 5⁄16"	14'-9 1⁄16"
G 241	350'-3"	125'-0"	95'-2 7⁄8"	14'-9 1⁄2"	62'-6"	56'-2 7⁄8"	13'-10 1⁄8"	62'-6"	56'-2 7⁄8"	34'-4 1⁄8"	25'-0"	25'-0"	23'-4 3⁄4"	24'-3 1⁄2"	14'-9 1⁄8"
G 242	350'-3 7⁄8"	125'-0"	95'-3 1⁄4"	14'-9 5⁄16"	62'-6"	56'-3 1⁄4"	13'-10 3⁄8"	62'-6"	56'-3 1⁄4"	34'-4 3⁄16"	25'-0"	25'-0"	23'-0 1⁄4"	24'-6"	14'-9 1⁄16"

INTERIOR GIRDER REACTION TABLE

	℄ BRG SPAN 8-14	PIER 14	PIER 15	PIER 16
R DL (k)	39.9	138.7	114.3	93.2
RS DL (k)	11.9	36.8	29.3	24.1
R LL (k)	48.8	45.6	48.3	49.2
IMP (k)	12.4	9.3	10.4	11.1
R TOTAL (k)	113.0	230.4	202.3	177.6

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
3⁄4"ϕ x 5" STUD SHEAR CONNECTORS	EACH	5421

GIRDER ELEVATIONS
G-56 THRU G-62 AND G-238 THRU G-243
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 S. RASHID
DRAWN BY R. BODMAN
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0818178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 77 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

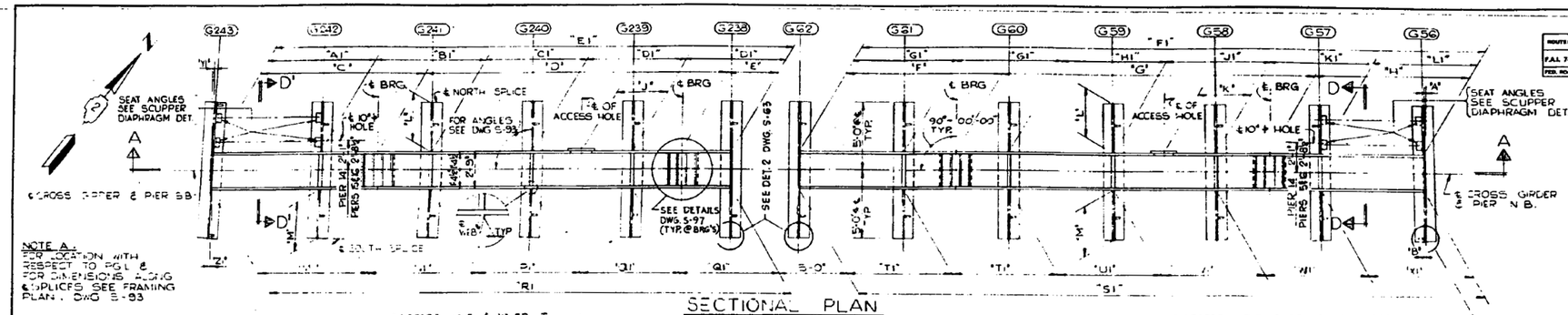
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX86 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	705
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

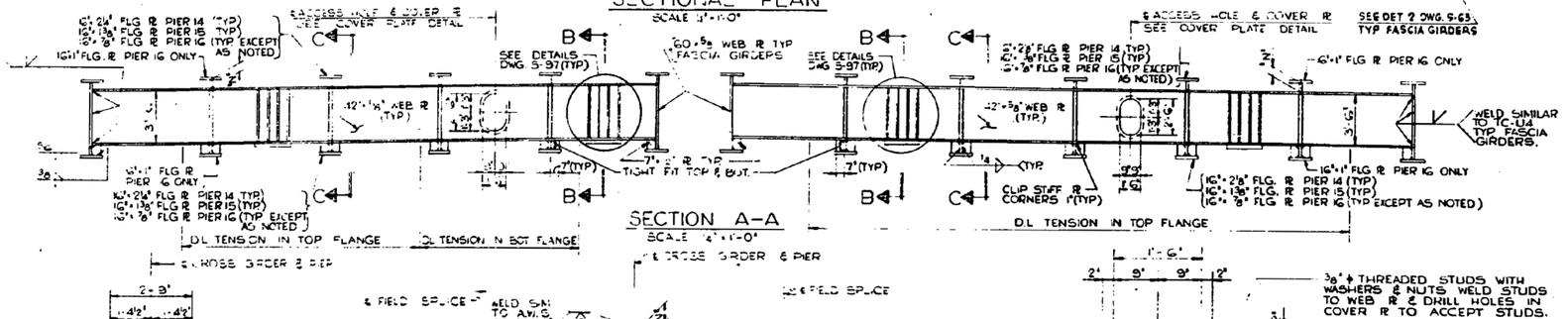
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	1504	42
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # 74		

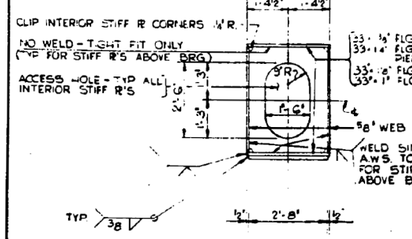
DWG. NO. S-95



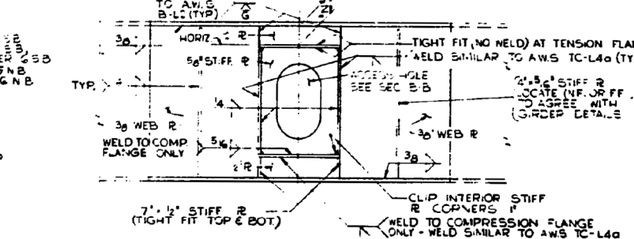
SECTIONAL PLAN
SCALE 1"=1'-0"



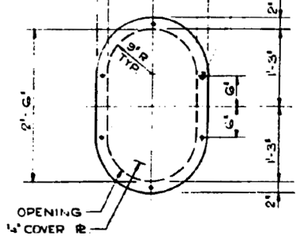
SECTION A-A
SCALE 1"=1'-0"



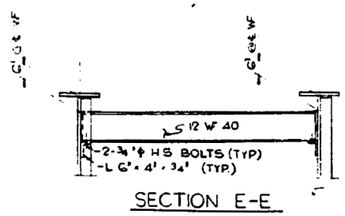
SECTION B-B
SCALE 1/2" = 1'-0"



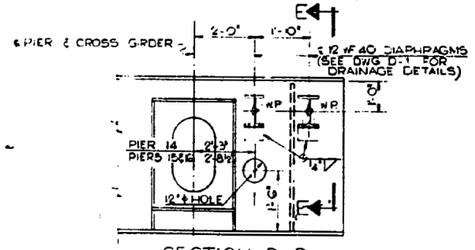
SECTION C-C
(TYPICAL FOR ALL INTERIOR GIRDERS)
SCALE 1/2" = 1'-0"



COVER PLATE DETAIL
SCALE 1" = 1'-0"



SECTION E-E



SECTION D-D
(SECTION D'-D' SIMILAR EXCEPT IN ORIENTATION)

SCUPPER DIAPHRAGM DETAILS
SCALE: 1/2" = 1'-0"

NOTES:
WORK THIS DWG. WITH DWG'S S-93, S-94, S-96 & S-97 FOR FIELD SPLICE DETAILS SEE DWG. S-97
ALL STIFF PL'S & GIRDER WEB PL'S TO BE VERTICAL FOR TOP OF WEB ELEVATIONS SEE DWG. S-97.

CROSS GIRDER DIMENSIONS

DIMENSION	PIER 14 S.B.	PIER 15 S.B.	PIER 16 S.B.
'A'	7'-3 5/8"	8'-0 3/4"	8'-8 1/4"
'B'	7'-3 5/8"	8'-1 1/2"	8'-8 1/4"
'C'	7'-3 5/8"	7'-3 5/8"	8'-6 7/8"
'D'	7'-3 5/8"	7'-3 5/8"	8'-6 7/8"
'E'	36'-6"	38'-0 5/8"	43'-1 1/8"
'H'	7'-3 1/8"	8'-1 1/4"	8'-8 1/2"
'N'	7'-2 5/8"	8'-1 1/4"	8'-8 1/2"
'T'	7'-2 5/8"	7'-3 1/4"	8'-7 5/8"
'Q'	7'-3 5/8"	7'-3 1/4"	8'-7 5/8"
'R'	36'-6"	38'-2 1/8"	43'-2 1/8"
'Y'	0'-0"	0'-0 1/8"	0'-0 1/8"
'Z'	0'-0"	0'-0 1/8"	0'-0 1/8"
'C'	10'-11 1/8"	12'-1 1/4"	12'-11 1/2"
'D'	21'-10 1/8"	22'-3 1/8"	25'-9 7/8"
'E'	3'-7 11/16"	3'-7 3/4"	4'-3 1/2"
'J'	3'-7 1/8"	3'-7 1/8"	4'-3"

DIMENSIONS	PIER 14 N.B.	PIER 15 N.B.	PIER 16 N.B.
'F'	42'-7 1/16"	45'-10"	48'-3 9/16"
'G'	7'-1 1/4"	7'-7 1/16"	8'-0 3/16"
'M'	7'-1 1/4"	7'-7 1/16"	8'-0 3/16"
'J'	7'-1 1/4"	7'-7 1/16"	8'-0 3/16"
'K'	7'-1 1/4"	7'-7 1/16"	8'-0 3/16"
'L'	7'-0 15/16"	7'-7 1/16"	8'-0 3/16"
'O'	42'-8"	45'-10 15/16"	48'-4 5/8"
'I'	7'-1 5/16"	7'-7 3/16"	8'-0 5/8"
'III'	7'-1 5/16"	7'-7 13/16"	8'-0 3/8"
'VI'	7'-1 5/16"	7'-7 13/16"	8'-0 3/8"
'WI'	7'-1 5/16"	7'-7 13/16"	8'-0 3/8"
'XI'	7'-1 5/16"	7'-7 15/16"	8'-0 3/8"
'A'	0'-0 15/16"	0'-0 15/32"	0'-0 15/32"
'B'	0'-0 15/16"	0'-0 15/32"	0'-0 15/32"
'F'	10'-7 7/8"	11'-5 3/8"	12'-1"
'G'	21'-3 3/4"	22'-11"	24'-2"
'L'	10'-7 7/16"	11'-5 3/8"	12'-0 7/8"
'K'	3'-7 1/2"	4'-0"	4'-0"

GIRDER DIMENSIONS

LOCATION	PIER 14 N.B.			PIER 15 N.B.			PIER 16 N.B.		
GIR. / DIM.	'L'	'M'	'N'	'L'	'M'	'N'	'L'	'M'	'N'
G56	3'-7 1/2"	3'-7 1/2"	0'-8 15/16"	3'-7 1/2"	3'-7 1/2"	0'-9 1/16"	3'-7 1/2"	3'-7 1/2"	0'-6 1/16"
G57	DO	DO	0'-7 9/16"	DO	DO	0'-7 11/16"	DO	DO	0'-6 1/16"
G58	DO	DO	0'-7 1/2"	DO	DO	0'-7 11/16"	DO	DO	0'-7 1/8"
G59	DO	DO	0'-7 1/2"	DO	DO	0'-7 5/16"	DO	DO	0'-7 1/8"
G60	DO	DO	0'-7 1/2"	DO	DO	0'-7 5/16"	DO	DO	0'-7 1/8"
G61	DO	DO	0'-7 5/16"	DO	DO	0'-7 11/16"	DO	DO	0'-7 5/16"
G62	DO	DO	0'-7 3/16"	DO	DO	0'-7 5/8"	DO	DO	0'-8"

LOCATION	PIER 14 S.B.			PIER 15 S.B.			PIER 16 S.B.		
G238	3'-7 1/2"	3'-7 1/2"	0'-7 5/8"	3'-7 1/2"	3'-7 1/2"	0'-7 3/4"	3'-7 1/2"	3'-7 1/2"	0'-7 3/4"
G239	DO	DO	0'-7 5/8"	DO	DO	0'-7 3/4"	DO	DO	0'-7 3/4"
G240	DO	DO	0'-7 5/8"	DO	DO	0'-7 3/4"	DO	DO	0'-7 3/4"
G241	DO	DO	0'-7 3/8"	DO	3'-7 5/8"	0'-7 3/4"	3'-7 5/8"	3'-7 5/8"	0'-7 3/4"
G242	DO	DO	0'-7 5/8"	DO	DO	0'-7 3/4"	DO	DO	0'-7 3/4"
G243	DO	DO	0'-8 1/8"	3'-7 3/8"	DO	0'-7 11/16"	DO	DO	0'-7 5/8"

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S HASHID
DRAWN BY R BODMAN
CHECKED
IN CHARGE E.S MARTINS
APPROVED W.G HORN

CROSS GIRDERS AT PIERS 14, 15 AND 16 (N.B. AND S.B.)

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

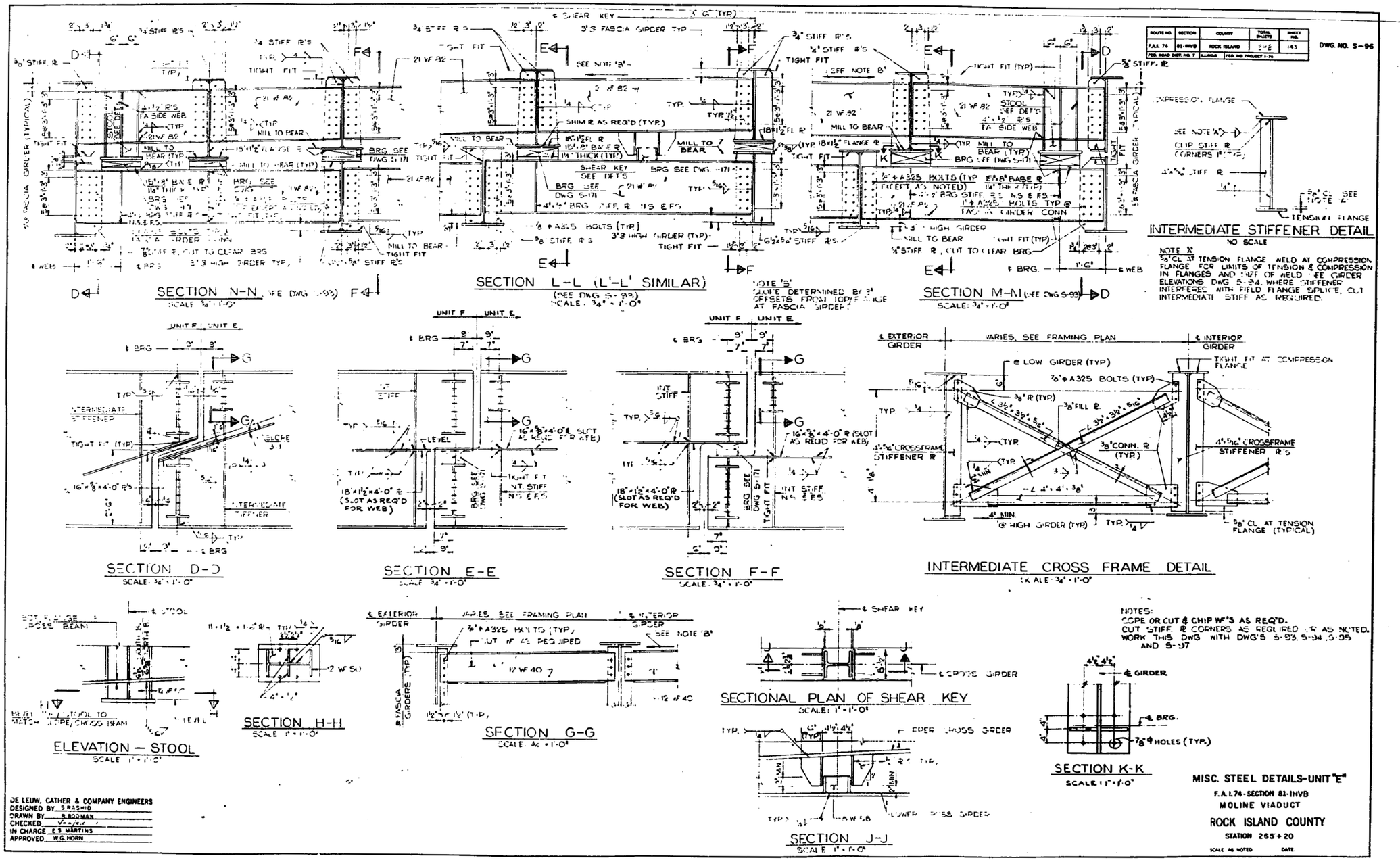
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MODEL: 78 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX87 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	706
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1H/VB	ROCK ISLAND	2-6	143
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-96

JE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S RASHID
DRAWN BY R BOOMAN
CHECKED V-----
IN CHARGE E S MARTINS
APPROVED W G HORN

MISC. STEEL DETAILS-UNIT "E"
F.A.I. 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE AS NOTED DATE

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.dgn	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 79 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

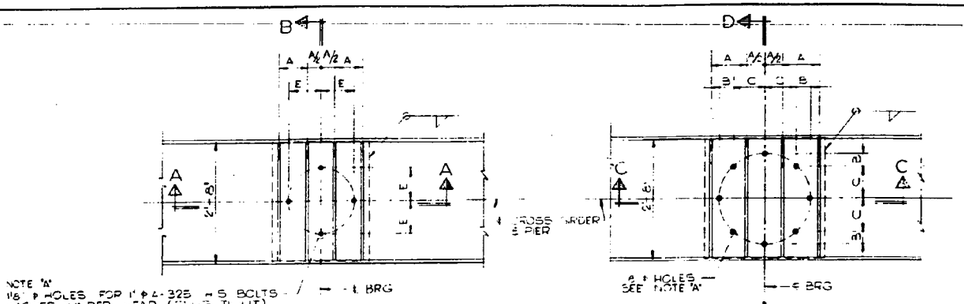
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX88 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	707
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	PROJECT NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	293	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # N/A		

DWG. NO. S-97



B

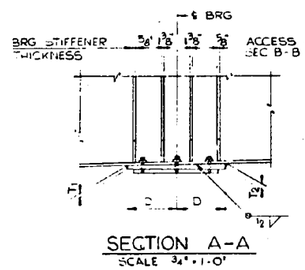
PLAN AT BEARING PIERS 14 & 16 ONLY

SCALE ¾" = 1'-0"

D

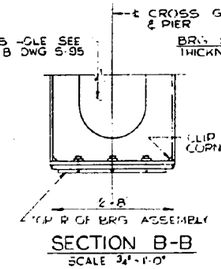
PLAN AT BEARING PIER 15 ONLY

SCALE ¾" = 1'-0"



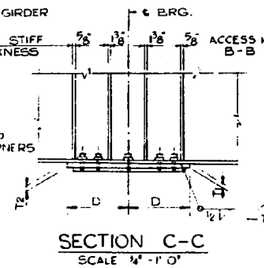
SECTION A-A

SCALE ¾" = 1'-0"



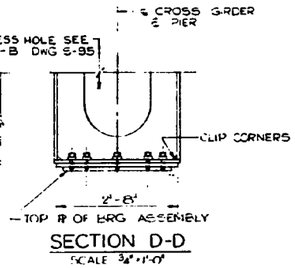
SECTION B-B

SCALE ¾" = 1'-0"



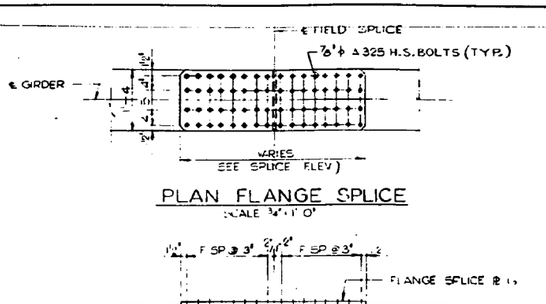
SECTION C-C

SCALE ¾" = 1'-0"



SECTION D-D

SCALE ¾" = 1'-0"



PLAN FLANGE SPLICE

SCALE ¾" = 1'-0"

ELEVATION BOLTED FIELD SPLICE

SCALE: ¾" = 1'-0"

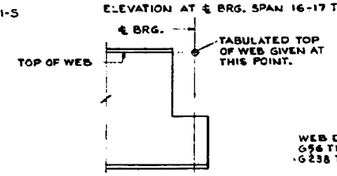
TABLE OF BEARING STIFFENERS AND BEARING ℞ DIMENSIONS								
LOCATION	BRG.	A	B	C	D	E	T1	T2
PIER 14 S.B.	EAST	7½"	—	—	1'-1"	8 5/8"	1⅜"	1 9/16"
	WEST	9½"	—	—	1'-4½"	11⅞"	2"	2⅛"
PIER 15 S.B.	EAST	8½"	2 15/16"	7"	1'-2"	—	1½"	1¾"
	WEST	9"	3¼"	7⅞"	1'-3"	—	1¾"	2"
PIER 16 S.B.	EAST	7½"	—	—	1'-1"	8 5/8"	1¼"	1 7/16"
	WEST	9"	—	—	1'-3"	10½"	1⅜"	2"
PIER 14 N.B.	EAST	9"	—	—	1'-4"	11⅞"	1⅜"	2⅛"
	WEST	9"	—	—	1'-3"	11⅞"	1¾"	2"
PIER 15 N.B.	EAST	9"	3¼"	7 7/16"	1'-3"	—	1¾"	2"
	WEST	9½"	3⅜"	8¼"	1'-3⅝"	—	2"	2⅛"
PIER 16 N.B.	EAST	8"	—	—	1'-2"	9 9/16"	1½"	1½"
	WEST	8½"	—	—	1'-2"	10⅜"	1⅝"	1⅝"

FIELD SPLICE SCHEDULE			
FIELD SPLICE	F	G	H
25 & 26	7	16" x 1⅛" x 4'-1"	2 ℞'S 7" x ⅝" x 4'-1"
27 & 28	5	16" x ⅜" x 3'-1"	2 ℞'S 7" x ¾" x 3'-1"
29 & 30	3	16" x ½" x 2'-1"	2 ℞'S 7" x ½" x 2'-1"

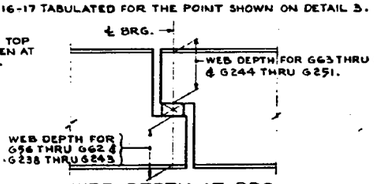
NOTES:
WORK THIS DWG. WITH DWG'S. S-93, S-94, S-95 & S-96.

TOP OF WEB ELEVATIONS											
POINT / GIRDER	℄ BEARINGS SPAN 13-14	℄ SPLICE LINE 25	℄ PIER 14	℄ SPLICE LINE 26	℄ SPLICE LINE 27	℄ PIER 15	℄ SPLICE LINE 28	℄ SPLICE LINE 29	℄ PIER 16	℄ SPLICE LINE 30	℄ BEARINGS SPAN 16-17
G-56	604.206	603.730	603.709	603.687	603.212	603.184	603.160	602.917	602.900	602.884	602.860
G-57	604.318	603.686	603.662	603.638	603.185	603.154	603.131	602.916	602.902	602.889	602.872
G-58	604.476	603.744	603.717	603.691	603.227	603.199	603.172	602.982	602.976	602.970	602.948
G-59	604.548	603.804	603.776	603.748	603.281	603.255	603.230	603.026	603.017	603.008	602.988
G-60	604.544	603.854	603.836	603.809	603.348	603.319	603.293	603.074	603.019	603.004	602.975
G-61	604.608	603.930	603.903	603.877	603.418	603.391	603.364	603.053	603.030	603.008	602.970
G-62	604.674	604.002	603.975	603.949	603.496	603.469	603.443	603.074	603.047	603.021	602.975
G-238	604.690	603.974	603.946	603.918	603.474	603.448	603.422	603.077	603.053	603.028	602.987
G-239	604.632	603.914	603.886	603.858	603.414	603.388	603.362	603.007	602.982	602.956	602.912
G-240	604.566	603.853	603.825	603.797	603.353	603.327	603.301	602.936	602.909	602.883	602.838
G-241	604.496	603.792	603.763	603.735	603.291	603.264	603.238	602.866	602.839	602.812	602.754
G-242	604.428	603.734	603.706	603.678	603.213	603.184	603.156	602.757	602.724	602.691	602.647
G-243	604.413	603.776	603.748	603.720	603.153	603.125	603.097	602.685	602.658	602.631	602.583

ELEVATION AT ℄ BRG. SPAN 16-17 TABULATED FOR THE POINT SHOWN ON DETAIL 3.

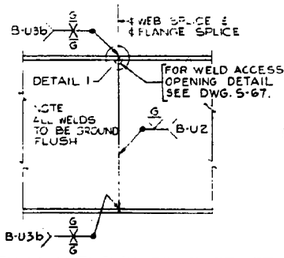


DETAIL 3



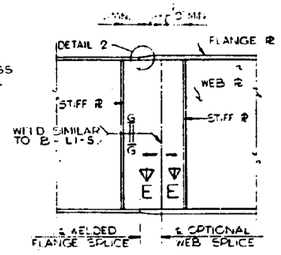
WEB DEPTH AT BRG.

TABLE A				
WEB DEPTHS ℄ BRGS. - SPAN 16-17				
NORTHBOUND		SOUTHBOUND		
GIRDER NO.	WEB DEPTH ℄ BRG.	GIRDER NO.	WEB DEPTH ℄ BRG.	
G-56	2'-4 7/8"	G-238	2'-2 15/16"	
G-57	2'-6"	G-239	2'-6"	
G-58	2'-6"	G-240	2'-6"	
G-59	2'-6"	G-241	2'-6"	
G-60	2'-6"	G-242	2'-2 5/16"	
G-61	2'-6"	G-243	2'-4 7/8"	
G-62	2'-2 15/16"	G-244	2'-2 15/16"	
G-63	2'-4 7/8"	G-245	2'-6 5/16"	
G-64	2'-6 3/16"	G-246	2'-6 1/2"	
G-65	2'-6 11/16"	G-247	2'-6 11/16"	
G-66	2'-7 1/16"	G-248	2'-6 15/16"	
G-67	2'-6 5/16"	G-249	2'-2 5/16"	
G-68	2'-6 5/16"	G-250	2'-6 5/16"	
G-69	2'-6 5/16"	G-251	2'-4 7/8"	
G-70	2'-2 5/16"	-	-	



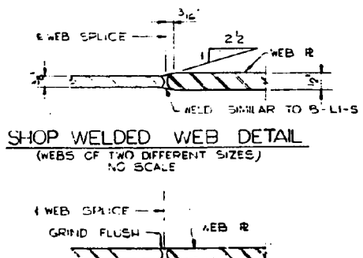
ELEVATION WELDED FIELD SPLICE

SCALE 1½" = 1'-0"



SHOP SPLICE DETAIL

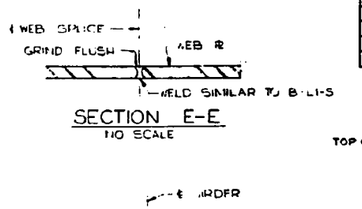
SCALE: 1½" = 1'-0"



SHOP WELDED WEB DETAIL

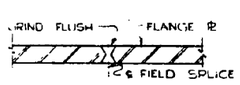
(WEBS OF TWO DIFFERENT SIZES)

NO SCALE



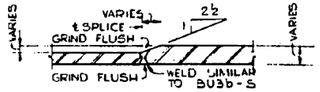
SECTION E-E

NO SCALE



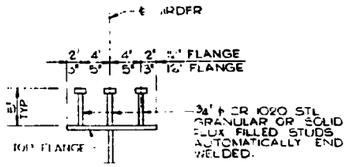
DETAIL 1

NO SCALE



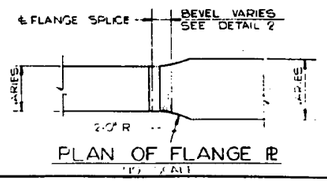
DETAIL 2

NO SCALE



SHEAR CONNECTOR DETAIL

SCALE 1½" = 1'-0"



PLAN OF FLANGE ℞

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. RASHID
DRAWN BY H. BODMAN
CHECKED
IN CHARGE E. S. MARTINS
APPROVED W.G. HORN

MISC. STEEL DETAILS-UNIT "E"

F.A.I. 74 - SECTION 81-1HVB

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED DATE:

benesch

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 80 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

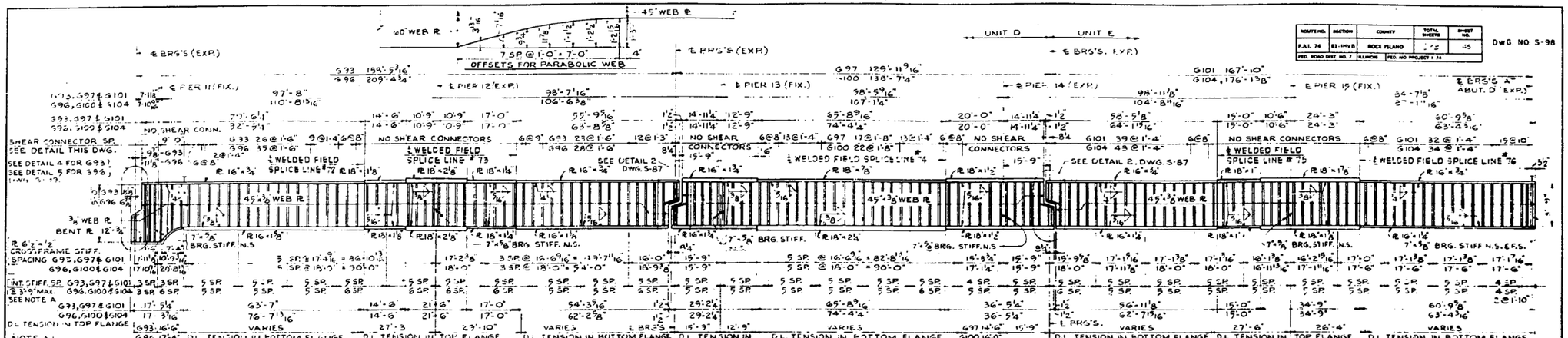
SHEET NO. SX89 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	708
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

1/18/2017 3:25:43 PM c:\pwise_work\do_not_delete\dms04543.0810178-A0321-002-Contract AB Demo_Rasters.brg

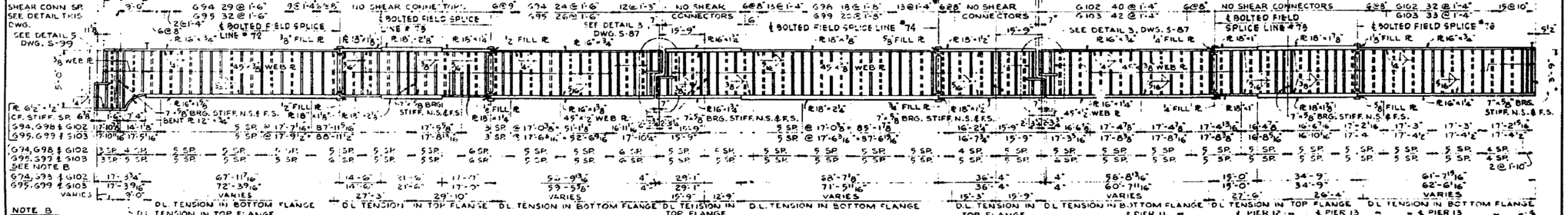
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	[illegible]	49
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I 74		

DWG NO. S-98



ELEVATION OF GIRDERS G93, G97 & G101 AS SHOWN
ELEVATION OF GIRDERS G96, G100 & G104 SIMILAR EXCEPT AS NOTED

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



ELEVATION OF GIRDERS G94, G98 & G102 AS SHOWN
ELEVATION OF GIRDERS G95, G99 & G103 SIMILAR EXCEPT AS NOTED

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

* SPACE SHEAR CONNECTORS ON SPLICE R TO MISS BOLTS.

LEGEND
N.S. = NEAR SIDE
F.S. = FAR SIDE
D.L. = DEAD LOAD
S.D.L. = SUPERIMPOSED DEAD LOAD
COMP. = COMPOSITE
KSI = KIPS PER SQ. IN.

TABLE OF MOMENTS (FT. KIPS) - INTERIOR GIRDERS

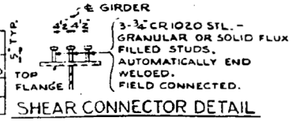
LOADING	PIER 11	0.40 SPAN 11-12	PIER 12	0.5 SPAN 12-13	PIER 13	0.5 SPAN 13-14	PIER 14	0.5 SPAN 14-15	PIER 15	0.6 SPAN 15-D
DEAD LOAD	-347.8	633.2	-1327.4	409.7	-588.6	816.7	-599.1	440.0	-1189.8	461.5
S.D.L.	-132.9	266.0	-371.1	189.8	-231.2	264.4	-242.4	207.0	-331.7	201.5
LIVE LOAD	-328.8	909.2	-732.6	738.0	-692.3	1073.6	-649.5	710.5	-673.7	787.0
IMPACT	-70.7	199.1	-161.2	162.3	-143.5	236.2	-142.9	156.3	-155.0	186.1
TOTAL COMP.	——	1370.3	——	1090.1	——	1574.2	——	1073.8	——	1177.4
TOTAL STEEL	-330.2	633.2	-2592.3	409.7	-1616.6	816.7	-1633.9	440.0	-2350.2	461.5

TABLE OF REACTIONS (KIPS) - INTERIOR GIRDERS

LOADING	℄ E. BRG.	PIER 11	PIER 12	PIER 13	PIER 14	℄ E. BRG.	PIER 15	℄ E. BRG. ABUT. D
DEAD LOAD	40.6	92.8	122.7	29.5	98.9	100.2	30.2	116.6	31.4
S.D.L.	10.4	35.4	41.8	11.7	36.3	37.7	12.4	39.9	12.2
LIVE LOAD	44.6	68.1	76.1	48.6	73.6	73.4	49.1	73.7	50.2
IMPACT	12.6	14.6	16.8	10.2	16.2	16.1	10.3	17.0	12.1
TOTAL	108.2	210.9	257.4	100.0	225.0	227.4	102.0	247.2	105.9

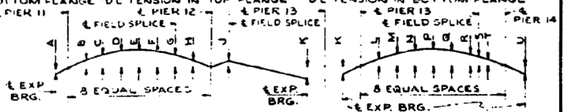
TABLE OF STRESSES DUE TO TORSION (KSI)

	PIER 11	0.4 SPAN 11-12	PIER 12	0.5 SPAN 12-13	PIER 13	0.5 SPAN 13-14	PIER 14	0.5 SPAN 14-15	PIER 15	0.6 SPAN 15-D
TOP FLANGE	2.013	2.860	3.045	4.240	5.701	5.947	4.541	2.685	2.778	2.161
BOT FLANGE	2.013	2.516	3.045	5.530	5.701	4.201	4.541	3.361	2.778	2.581



SHEAR CONNECTOR DETAIL

NOTES:
ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONTAL PLANE AT A 50° F. TEMP.
FOR STRUCTURAL STEEL DESIGNATION, SEE "GENERAL NOTES", DWG. G-1.
FOR TABLE "TOP OF GIRDER WEB ℄ ELEVATIONS", SEE DWG. S-99.
FOR CROSSFRAME DETAILS, SEE DWG. S-99.
FOR FIELD SPLICE DETAILS, SEE DWG. S-99.
FOR TABLE OF GIRDER PROPERTIES, SEE DWG. S-99.
WORK THIS DRAWING WITH FRAMING PLAN, DWG. S-88 & DWG. S-93.
FOR EXP. BRG. DETAILS 2 & 3 SEE DWG. S-87.
FOR EXP. BRG. DETAILS 4 & 5 SEE DWG. S-99.



CAMBER DIAGRAM & TABLE OF DIMENSIONS

GIRDER	A	B	C	D	E	F	G	H	J	K	GIRDER	K	L	M	N	P	Q	R	S	T	U
G94	1 1/2	1"	1"	1 3/8	1 1/8	1 1/16	1 1/4	1 3/8	1 5/16	1 1/4	G98	1 1/2	1"	1"	1 3/8	1 1/8	1 1/16	1 1/4	1 3/8	1 5/16	1 1/4
G95	1 5/8	1 1/16	1 1/16	1 7/16	1 3/16	1 1/16	1 5/16	1 7/16	1 3/8	1 5/16	G99	1 5/8	1 1/16	1 1/16	1 7/16	1 3/16	1 1/16	1 5/16	1 7/16	1 3/8	1 5/16
G96	1 3/4	1 1/8	1 1/8	1 1/2	1 1/4	1 1/8	1 3/8	1 1/2	1 7/16	1 3/8	G100	1 3/4	1 1/8	1 1/8	1 1/2	1 1/4	1 1/8	1 3/8	1 1/2	1 7/16	1 3/8

℄ FABRICATION TOLERANCE = +1/4", -0"

NOTE: DO NOT CAMBER GIRDERS ℄ G93, G97, G101, G102, G103 & G104

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
3/4" ø x 5" STUD SHEAR CONNECTORS	EACH	3,117
—	—	—

GIRDER ELEVATIONS G-93 THRU G-104 (RAMP 3-N)

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 J. A. BARRAZA
DRAWN BY R. K. MILLER
CHECKED
IN CHARGE L. G. MARTINS
APPROVED W. G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450
Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 81 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX90 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	709
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	2?3	146
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I 74		

DWG. NO S-99

TOP OF WEB ELEVATION

GIR.	PT.	℄ BRG'S	℄ PIER 11	℄ SPLICE	PIER 12	℄ SPLICE	℄ BRG'S	GIR.	PT.	℄ PIER 13	℄ SPLICE	℄ PIER 14	GIR.	PT.	℄ BRG'S.	℄ SPLICE	℄ PIER 15	℄ SPLICE	℄ BRG'S ABUT. 0
G93		603.407	603.290	602.221	601.614	600.946	599.156	G97		598.474	595.081	594.065	G101		593.265	590.348	589.077	587.868	585.010
G94		603.755	603.722	602.630	601.989	601.329	599.484	G98		598.940	595.448	594.440	G102		593.627	590.710	589.373	588.102	585.198
G95		604.098	604.096	603.015	602.364	601.709	599.823	G99		599.315	595.821	594.815	G103		593.996	591.064	589.664	588.333	585.386
G96		604.430	604.454	603.448	602.739	602.140	600.162	G100		599.690	596.259	595.191	G104		594.366	591.459	589.999	588.610	585.574

TABLE OF PROPERTIES - INTERIOR GIRDERS

LOCATION	PIER 11	SPAN 11-12	PIER 12	SPAN 12-13	PIER 13	SPAN 13-14	PIER 14	SPAN 14-15	PIER 15	SPAN 15-0
Is (IN⁴)	25,946	21,259	45,349	19,968	33,460	28,907	23,048	13,102	39,946	19,102
Sts(IN³)	905	726	1,842	713	1,380	917	1,335	705	1,639	705
Sbs(IN³)	790	1,176	1,842	1,032	1,380	1,741	1,335	960	1,639	960
Ic (IN⁴)	—	56,982	—	51,348	—	76,875	—	48,417	—	48,417
Stc(IN³)	—	5,515	—	5,641	—	5,621	—	5,724	—	5,724
Sbc(IN³)	—	1,538	—	1,350	—	2,232	—	1,256	—	1,256

LEGEND
Is - MOMENT OF INERTIA OF STEEL SECTION.
Sts - SECTION MODULUS AT TOP OF STEEL SECTION.
Sbs - SECTION MODULUS AT BOTTOM OF STEEL SECTION.
Ic - MOMENT OF INERTIA OF COMPOSITE SECTION (WITH 8" SLAB)
Stc - SECTION MODULUS AT TOP OF STEEL, COMPOSITE SECTION.
Sbc - SECTION MODULUS AT BOTTOM OF STEEL, COMPOSITE SECTION.
N.S. - NEAR SIDE
F.S. - FAR SIDE

DETAIL X
(TYP. WELDED FLANGE SPLICE)
NO SCALE

DETAIL Y
(TYP. FIELD WELDED FLANGE SPLICE)
NO SCALE

PLAN TYP. WELDED FLANGE SPLICE
NO SCALE

PLAN TYP. FIELD WELDED FLANGE SPLICE
NO SCALE

SECTION A-A
NO SCALE.

SHOP SPLICE DETAIL
NO SCALE

FIELD WELDED SPLICE DETAILS
NO SCALE

DETAIL OF FIELD SPLICE @ SPLICE LINES #72, #73, #75 & #76 FOR GIRDERS G94, G95, G102 & G103
SCALE: 1/2" = 1'-0"

DETAIL OF FIELD SPLICE @ SPLICE LINE #74 FOR GIRDERS G98 & G99
SCALE: 1/2" = 1'-0"

BEARING STIFFENER DETAIL FOR PLATE GIRDER
SCALE: 1/2" = 1'-0"

DETAIL 4
SCALE: 1/2" = 1'-0"

DETAIL 5
SCALE: 1/2" = 1'-0"

DETAIL 6
SCALE: 1" = 1'-0"

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

INTERMEDIATE CROSSFRAME DETAILS
SCALE: 1/2" = 1'-0"

SECTION E-E

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

END CROSSFRAME DETAILS
SCALE: 1/2" = 1'-0"

INTERMEDIATE STIFF. DETAILS
SCALE: 1/2" = 1'-0"

SECTION J-J

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

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

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

CROSS GIRDER AT PIER 11 (SEE NOTE ① FOR OTHERS)

NOTE ① CROSS BEAM DETAILS & SECTIONS AT PIERS 12, 13, 14, & 15, SIMILAR TO TYPICAL CROSS BEAM AT PIER 11, DWG S-87. SEE TABLE OF BRG. DIM. DWG. S-90 FOR BRG. STIFF'S & R'S.

TABLE OF "H" DIMENSION

PIER 11		PIER 12		PIER 13		PIER 14		PIER 15	
W. BRG.	E. BRG.	W. BRG.	E. BRG.	S. BRG.	N. BRG.	S. BRG.	N. BRG.	S. BRG.	N. BRG.
4'-0 5/16"	4'-0 7/8"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-11 3/8"	3'-11 3/8"

MISCEL. STEEL DETAILS
RAMP 3-N
F.A.L.74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY J.A. BARBAZA
DRAWN BY R.F. MILLER
CHECKED E.P.S. MARTINS
IN CHARGE E.P.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

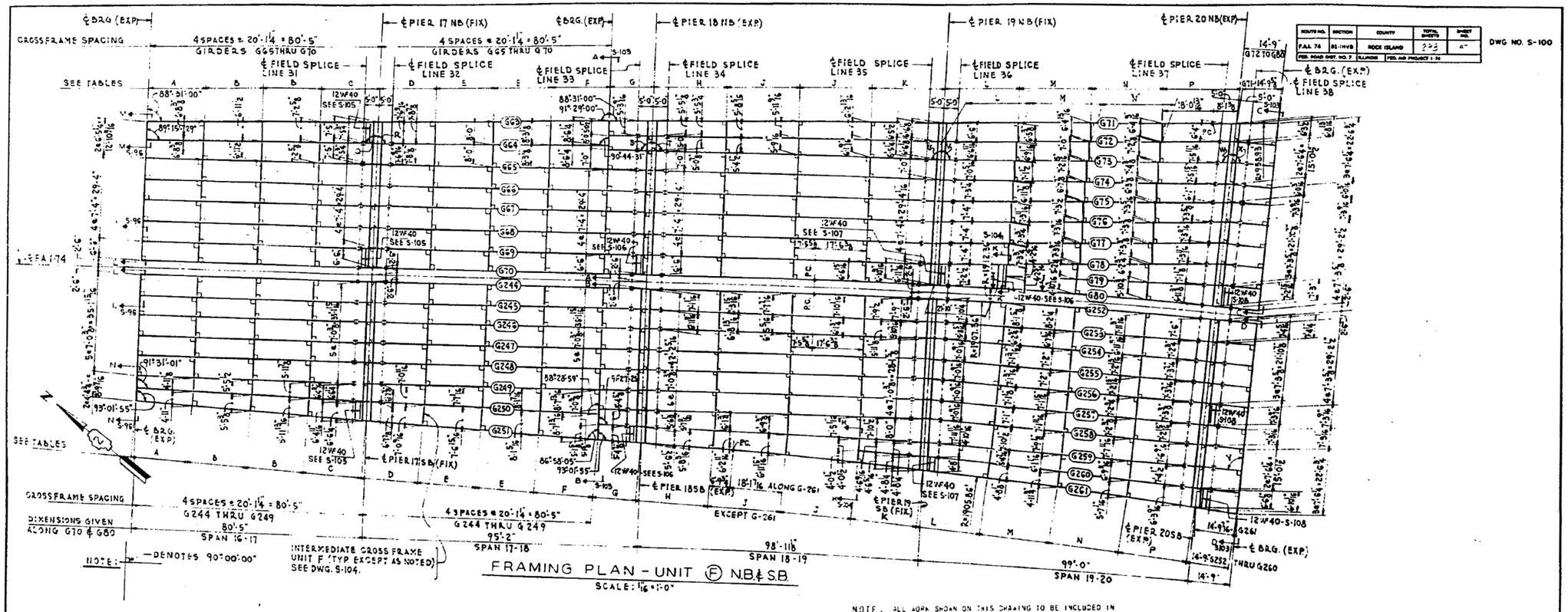
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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 82 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX91 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	710
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	DIRECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	292	71
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # N		

DWG NO. S-100

NOTE. ALL WORK SHOWN ON THIS DRAWING TO BE INCLUDED IN SECTION 81-1HVB, EXCEPT FOR SHEAR CONNECTORS SOUTH OF PIER 18 WHICH SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR FOR SECTION 81-1HVB.

TABLE I

DIM. \ GIRD.	G-63	G-69	G-250	G-251
A	19'-11⅛"	20'-1⅛"	20'-1⅝"	19'-10⅞"
B	20'-1⅛"	20'-1⅛"	20'-1⅝"	20'-1⅛"
C	20'-3⅜"	20'-1⅛"	20'-1⅝"	20'-3⅜"
D	19'-10⅝"	20'-1⅛"	20'-1⅝"	19'-9⅜"
E	20'-1⅛"	20'-1⅛"	20'-1⅝"	20'-1⅛"
F	20'-3⅞"	20'-1⅛"	20'-1⅝"	20'-6⅜"
Q	91°-29'-00"	90°-00'-31"	88°-28'-59"	86°-58'-05"
R	88°-31'-00"	89°-15'-29"	91°-31'-01"	93°-01'-55"

TABLE II

DIM. \ GIRD.	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
G	19'-9⅛"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	-	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9⅛"	-	19'-9⅛"
H	29'-10⅝"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	-	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0⅛"	-	29'-8⅞"
J	25'-0"	25'-0⅛"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	-	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0⅛"	-	29'-10⅝"
K	25'-3⅜"	25'-0⅛"	24'-10⅞"	24'-8⅜"	24'-6⅝"	24'-4⅞"	24'-2⅜"	24'-0⅛"	-	23'-11⅛"	23'-9⅞"	23'-7⅞"	23'-6⅛"	23'-4⅞"	23'-2⅝"	23'-0⅜"	22'-10⅛"	22'-8⅛"	22'-6⅛"	23'-2⅜"
L	26'-2⅛"	26'-5⅛"	26'-3⅞"	26'-0⅛"	25'-11½"	25'-10⅛"	25'-7⅞"	25'-5⅛"	-	26'-9⅜"	25'-2⅛"	25'-1⅛"	26'-10⅞"	26'-8⅝"	26'-6⅜"	26'-4⅛"	23'-0⅛"	23'-3⅞"	23'-1½"	22'-9⅛"
M	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	24'-5½"	26'-6⅛"	26'-5⅛"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"
N	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	26'-10⅝"	26'-5⅛"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅜"	26'-3⅛"
P	26'-2⅜"	25'-6⅜"	25'-6⅛"	25'-7⅞"	25'-0"	26'-8⅝"	26'-6⅜"	26'-6⅛"	25'-0"	26'-10⅜"	26'-8⅛"	26'-7⅜"	26'-8"	26'-6⅝"	26'-3⅜"	26'-2⅝"	26'-2⅜"	26'-2⅛"	26'-1⅞"	26'-5⅝"
S	91°-29'-00"	90°-00'-00"	90°	90°	90°	90°	90°	90°	-	90°	90°	90°	90°	90°	90°	90°	90°	88°-32'-35"	-	86°-58'-05"
T	88°-31'-00"	89°-08'-06"	90°	90°	90°	90°	90°	90°	-	90°	90°	90°-00'-35"	90°	90°	90°	90°	90°	91°-27'-25"	-	93°-01'-55"
U	92°-03'-32"	92°-06'-26"	91°-19'-32"	91°-19'-32"	91°-19'-32"	91°-19'-32"	91°-19'-32"	91°-19'-32"	-	90°	90°	89°-33'-57"	91°-19'-32"	91°-19'-32"	91°-19'-32"	91°-19'-32"	91°-19'-32"	89°-27'-07"	88°-09'-37"	86°-13'-08"
V	87°-16'-28"	87°-09'-25"	87°-12'-32"	87°-59'-17"	87°-13'-43"	87°-11'-28"	87°-09'-22"	87°-07'-15"	-	90°	90°	91°-15'-19"	92°-05'-33"	92°-15'-08"	92°-26'-58"	92°-38'-21"	92°-42'-28"	92°-25'-39"	94°-08'-19"	93°-46'-51"
W	95°-12'-26"	95°-48'-33"	95°-15'-26"	94°-58'-01"	95°-01'-15"	95°-46'-30"	95°-48'-36"	95°-50'-03"	93°-28'-03"	90°	90°	91°-42'-39"	90°-54' 75"	90°-52'-50"	90°-33'-10"	90°-23'-37"	90°-15'-30"	90°-32'-19"	88°-50'-38"	86°-18'-27"
X	88°-47'-36"	90°-00'-00"	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	89°-01'-33"
Y	94°-19'-20	90°	90°	90°	90°	90°	90°	90°	90°	89°-33'-29"	89°-33'-25"	90°	90°	90°	90°	90°	90°	90°	90°	85°-51'-47"

NOTES:

WORK THIS DRAWING WITH DRAWING NOS. S-101 THROUGH S-108.

ALL DIMENSIONS ARE GIVEN ALONG CENTER LINE WEB ON A HORIZONTAL PLANE AT 50 DEGREES FAHRENHEIT TEMPERATURE.

ALL ANGLES SHOWN MEASURED TO CURVED GIRDERS ARE MEASURED TO A LINE TANGENT TO CENTER LINE WEB OF CURVED GIRDER AT POINT INDICATED.

TYPES OF BEARINGS INDICATED REFER TO MOVEMENT IN LONGITUDINAL DIRECTION ONLY. SEE BEARING DRAWINGS FOR ADDITIONAL DATA.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
¾"ø x 5" STUD SHEAR CONNECTORS	EACH	4512

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY N. J. Mc INNES
DRAWN BY A BUROKAS
CHECKED W. O. Kadyk
IN CHARGE E. S. MARTINS
APPROVED W. G. HORN

FRAMING PLAN UNIT "F" - MAINLINE

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 83 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

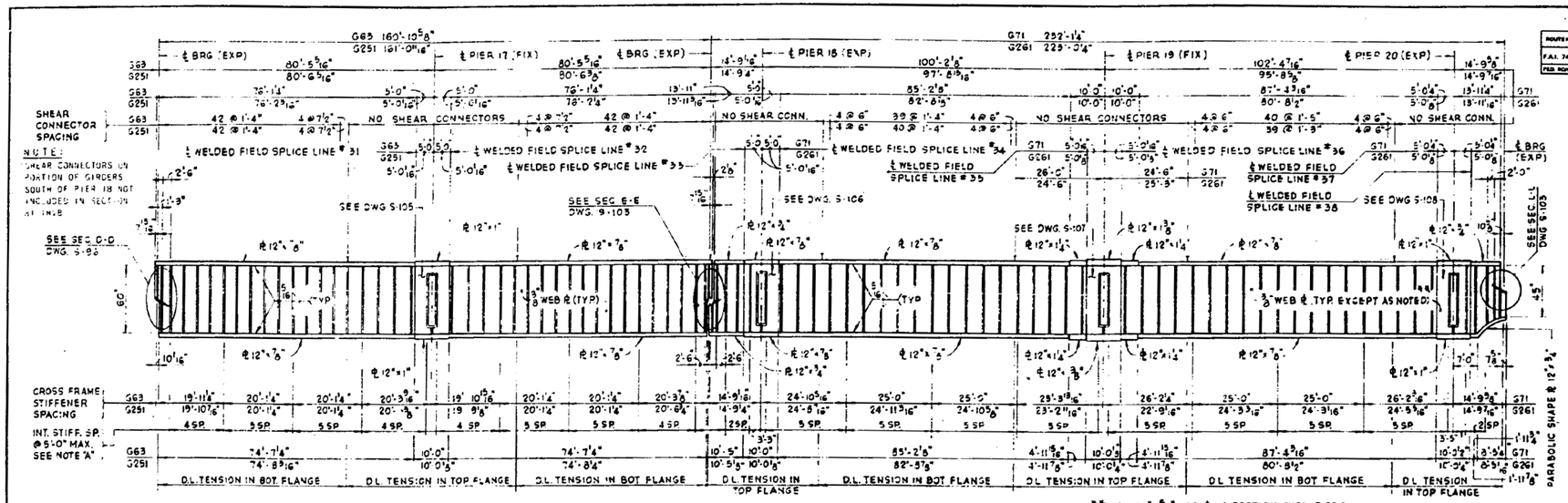
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX92 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	711
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	295	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I 74		

DWG. NO. S-101



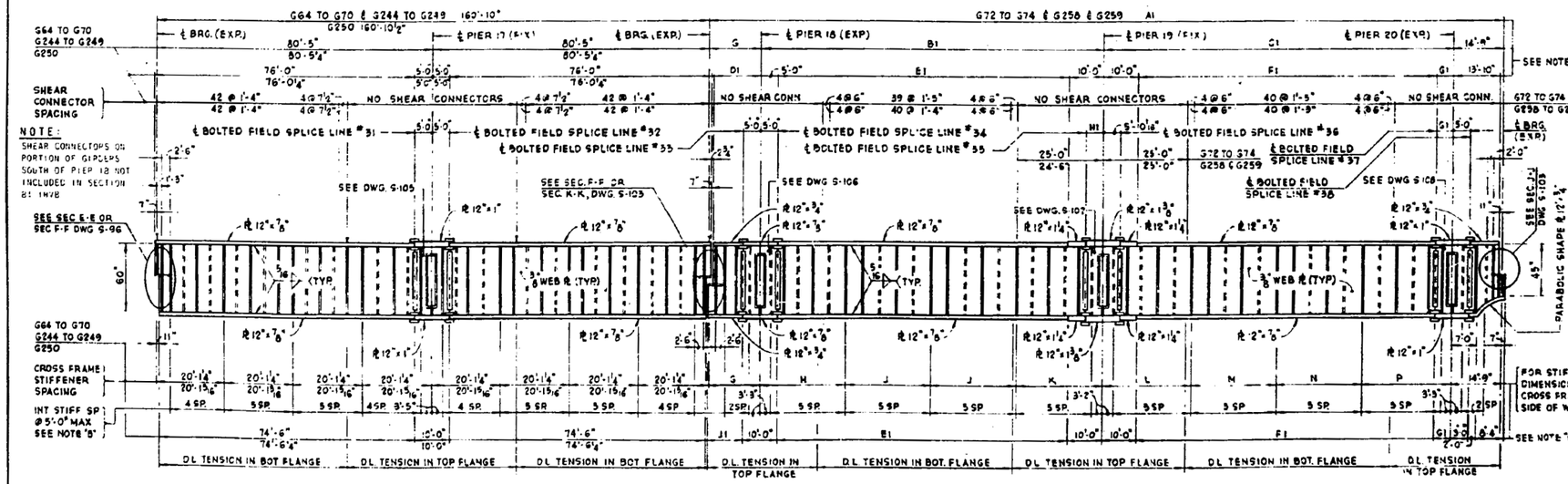
DIM	GIR	G72	G73	G74
A1		231'-6 15/16"	230'-11 7/8"	230'-5 1/8"
B1		100'-0 1/4"	99'-10 3/8"	99'-8 9/16"
C1		102'-0 11/16"	101'-7 1/2"	101'-2 9/16"
D1		13'-10"	13'-10"	13'-10"
E1		85'-0 1/4"	84'-10 3/8"	84'-8 9/16"
F1		87'-0 3/8"	86'-7 1/16"	86'-2 5/16"
G1		5'-0 5/16"	5'-0 1/4"	5'-0 1/4"
H1		5'-0 1/16"	5'-0"	5'-0"
J1		10'-4"	10'-4"	10'-4"
—		G258	G259	—
A1		223'-11 3/8"	223'-4 13/16"	—
B1		97'-10 15/16"	97'-9 1/4"	—
C1		96'-6 7/16"	96'-1 1/2"	—
D1		13'-10"	13'-10 1/16"	—
E1		82'-10 15/16"	82'-9 1/4"	—
F1		81'-6 7/16"	81'-1 1/2"	—
G1		5'-0"	5'-0"	—
H1		5'-0"	5'-0"	—
J1		10'-4"	10'-4 1/16"	—
—		—	—	—

TABLE III

** USE 60"x 5/8" WEB ℄ IN SECTION OVER PIERS BETWEEN SPLICES. SEE DETAIL 2 DWG. S-63

ELEVATION OF GIRDERS G63, G251, G71 & G261

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



NOTES

WORK THIS DWG WITH DWGS S-103 THRU S-108

ALL STRUCTURAL STEEL SHALL BE AS T M DESIGNATION A-36

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

ALL BRG ℄ CROSS FRAME STIFFENER ℄'S ARE TO BE VERTICAL

SPACE INTERMEDIATE STIFF ℄'S TO CLEAR ℄ WELDED SPLICES BY 6" MIN

FOR WELDED SHOP SPLICE DETAILS SEE DWG S-97

FOR WELDED FIELD SPLICE DETAIL, SEE DWG S-104

FOR STIFF SPACING USE AVERAGE CROSS FRAME DIMENSIONS FOR EACH GIRDER AS GIVEN FOR NB SPAN 19-20 CROSS FRAME STIFF POSITIONS ARE DIFFERENT ON EACH SIDE OF WEB

GIRDER ELEVATIONS
G-63 THRU G-74, G-244 THRU G-251, G-258, G-259 AND G-261

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.U. KOESTER
DRAWN BY J.M. LESLIE
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

NOTE "A"
FASCIA GIRDERS SHALL HAVE STIFF ℄'S ON INSIDE FACE OF WEB ONLY

ELEVATION OF GIRDERS
G64 THRU G70, G72 THRU G74, G244 THRU G250, G258 & G259

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

NOTE "B"
INTERMEDIATE STIFF ℄'S OTHER THAN AT CROSS FRAMES SHALL BE PLACED ALTERNATELY ON N S ℄ F.S. OF WEB

NOTE "C"
FOR GIRDER DIMENSIONS SEE TABLE II DWG. S-100 & TABLE III THIS DWG

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

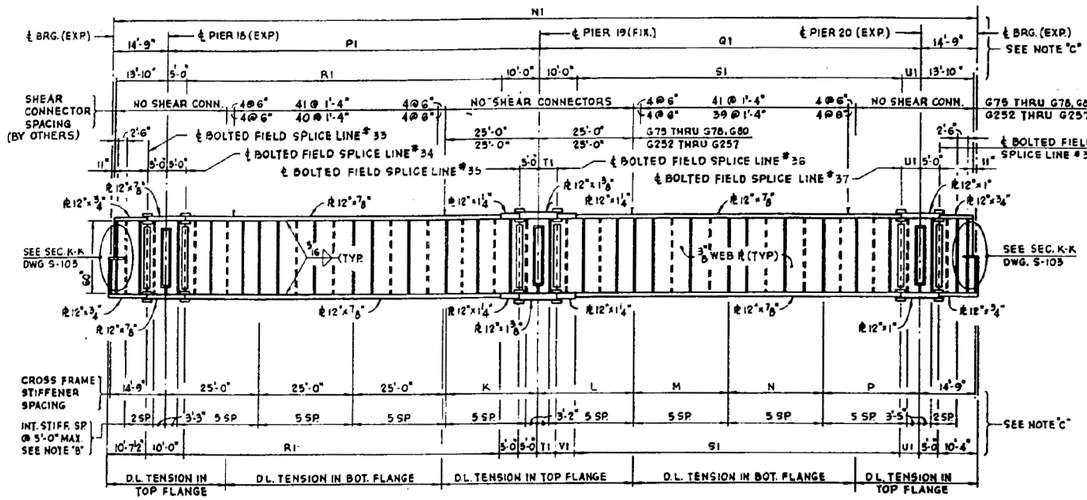
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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 84 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX93 OF SX150 SHEETS

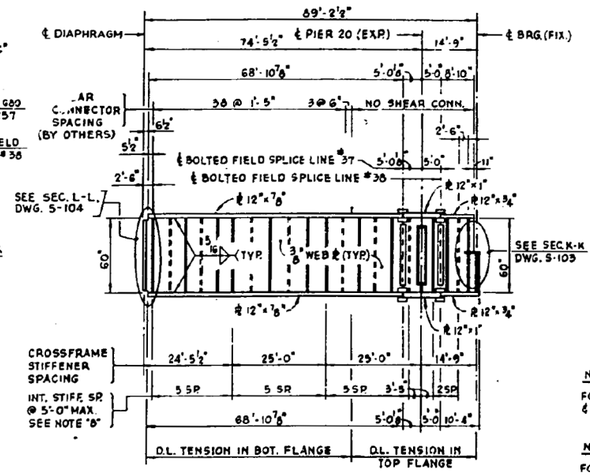
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	712
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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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.

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

DWG. NO. S-102-A

NOTES

WORK THIS DWG. WITH DWG. S-100, S-101 & S-105 - S-108

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. ℄ CROSS FRAME STIFF. ℄'S TO BE VERTICAL.

SPACE INTERMEDIATE STIFF. ℄'S TO CLEAR ℄ WELDED SPLICES BY 9" MIN. & TO CLEAR EDGE OF SPLICE ℄'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 81-1HVB-1.

NOTE "C"

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

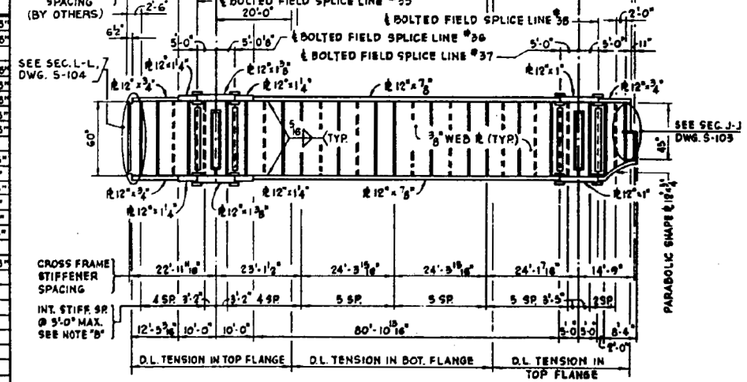
NOTE "B"

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. ℄'S OTHER THAN AT CROSS FRAMES SHALL BE PLACED ALTERNATELY ON N.S. & F.S. OF WEB.

DIR. \ GIRD.	G 75	G 76	G 77	G 78
N1	230'-0 1/8"	229'-5 3/4"	228'-11 5/16"	228'-4 5/16"
P1	99'-6 5/8"	99'-4 3/4"	99'-2 13/16"	99'-0 5/16"
Q1	100'-11 1/2"	100'-7"	100'-2 1/2"	99'-10"
R1	84'-6 5/8"	84'-4 3/4"	84'-2 13/16"	84'-0 15/16"
S1	85'-11 3/16"	85'-6 11/16"	85'-2 3/16"	84'-9 11/16"
T1	5'-0 1/16"	5'-0 1/16"	5'-0 1/16"	5'-0 1/16"
U1	5'-0 5/16"	5'-0 5/16"	5'-0 5/16"	5'-0 5/16"
V1	4'-11 15/16"	4'-11 15/16"	4'-11 15/16"	4'-11 15/16"
	G 80	G 252	G 253	G 254
N1	227'-5 1/8"	227'-0 3/4"	226'-8 15/16"	226'-0 9/16"
P1	98'-11 1/8"	98'-9 7/8"	98'-7 7/8"	98'-6 1/4"
Q1	99'-0"	98'-8 7/8"	98'-4 1/16"	98'-0 1/16"
R1	83'-11 1/8"	83'-9 7/8"	83'-7 7/8"	83'-6 1/4"
S1	84'-0"	83'-8 7/8"	83'-4 1/16"	83'-0 1/16"
T1	5'-0"	5'-0"	5'-0"	5'-0 1/16"
U1	5'-0"	5'-0"	5'-0"	5'-0"
V1	5'-0"	5'-0"	5'-0"	4'-11 15/16"
	G 255	G 256	G 257	—
N1	225'-6 1/16"	224'-11 7/8"	224'-5 5/8"	—
P1	98'-4 7/16"	98'-2 5/8"	98'-0 13/16"	—
Q1	97'-7 5/8"	97'-3 1/4"	96'-10 13/16"	—
R1	83'-4 7/16"	83'-2 5/8"	83'-0 13/16"	—
S1	82'-7 5/8"	82'-3 1/4"	81'-10 13/16"	—
T1	5'-0 1/16"	5'-0 1/16"	5'-0 1/16"	—
U1	5'-0"	5'-0"	5'-0"	—
V1	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.

INTERIOR GIRDER MOMENT TABLE

		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	(in⁴)	26206	29078	26206	26206	26206	37832	26206	29078
I_c	(in⁴)	59474	-	59474	-	59474	-	59474	-
S_s	(in³)	850	938	850	850	850	1206	850	938
S_c	(in³)	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)	5.8	10.5	5.8	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	-185.2	120.2	-141.0	123.2	-203.3	124.6	-149.7
M. L.L.	(ftk)	655.0	-858.0	655.0	-583.0	613.0	-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	-856.5
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	18.5
VR	(k)	53.6	-	53.6	-	51.4	-	54.9	-

INTERIOR GIRDER REACTION TABLE

	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 W.J. McINNES
DRAWN BY J.R. LESLIE
CHECKED R.O. Kaufman
IN CHARGE E.S. HARTINS
APPROVED W.G. HORN

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

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

(AS REVISED JULY 28, 1972.) SCALE AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

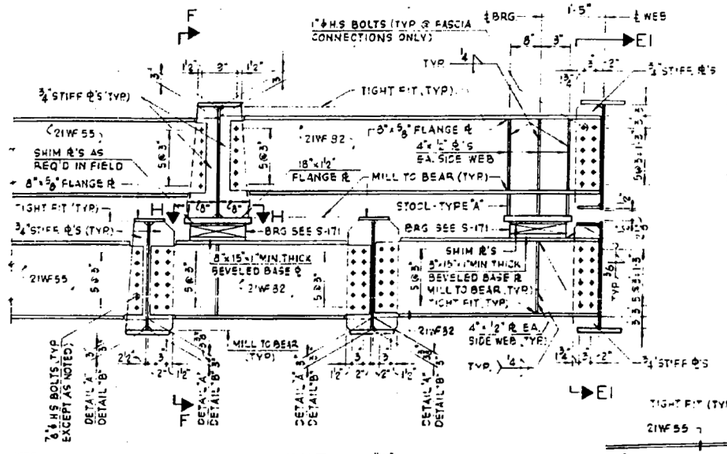
FOR INFORMATION ONLY

FILE NAME = 08101178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE REMOVAL PLANS EXISTING VIADUCT PLANS – FOR INFORMATION ONLY	F.A.I. RTE. 74	SECTION (81-1)R & 81-1(HVBR)	COUNTY ROCK ISLAND	TOTAL SHEETS 1504	SHEET NO. 713
MODEL: 85 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -		SHEET NO. SX94 OF SX150 SHEETS				CONTRACT NO. 64C08	
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -					ILLINOIS	FED. AID PROJECT	

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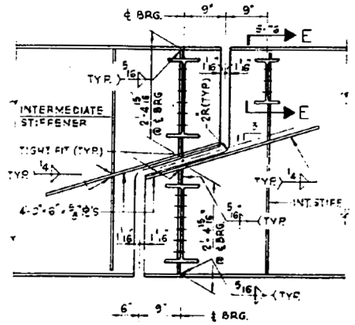
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-	ROCK ISLAND	2+5	15C
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # 38		

DWG NO. S-103

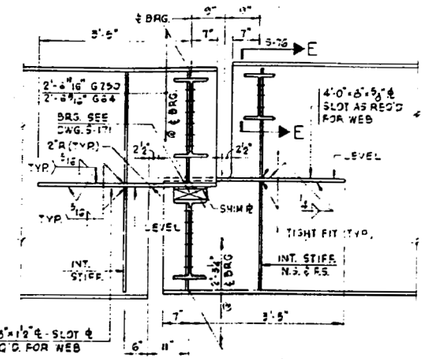


NOTE
21WF DIAPHRAGMS BETWEEN GIRDERS G71 ℄ G73 ⊕ ℄ BRG. SPAN 17-18 ARE LEVEL. PLACE AS SHOWN

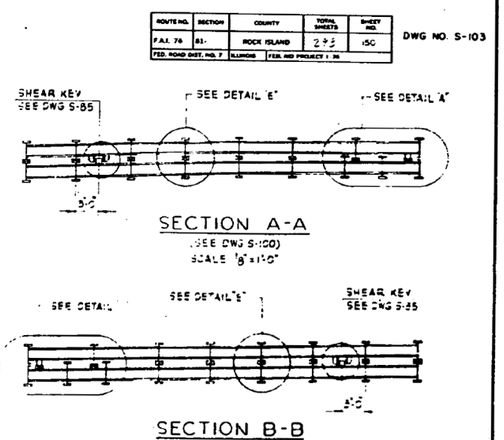
DETAIL 'A'
DETAIL 'B'
(OPPOSITE HAND EXCEPT AS NOTED)
SCALE ¾"=1'-0"



SECTION E1-E1
SCALE: ¾"=1'-0"

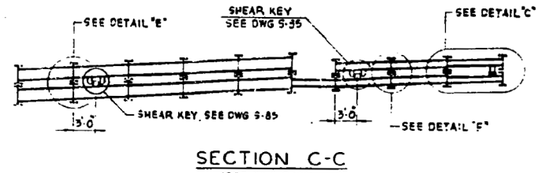


SECTION F-F
SCALE: ¾"=1'-0"

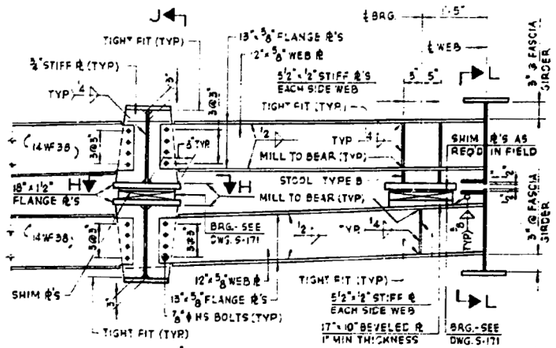


SECTION A-A
(SEE DWG S-100)
SCALE ⅛"=1'-0"

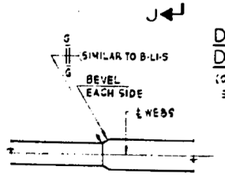
SECTION B-B
(SEE DWG S-100)
SCALE ⅛"=1'-0"



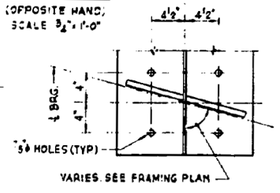
SECTION C-C
(SEE DWG S-100)
SCALE ⅛"=1'-0"



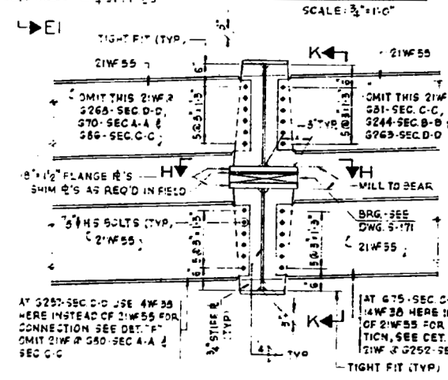
DETAIL 'C'
DETAIL 'D'
(OPPOSITE HAND)
SCALE ¾"=1'-0"



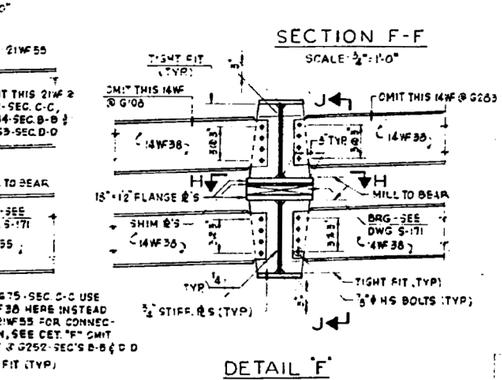
SECTION G-G
SCALE: FULL SIZE



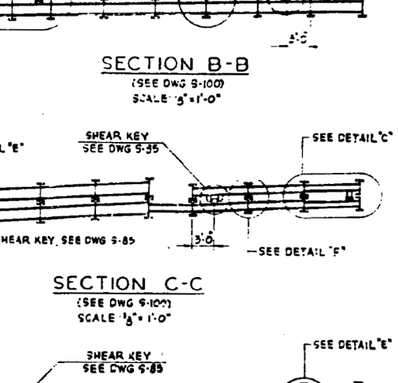
SECTION H-H
SCALE: ½"=1'-0"



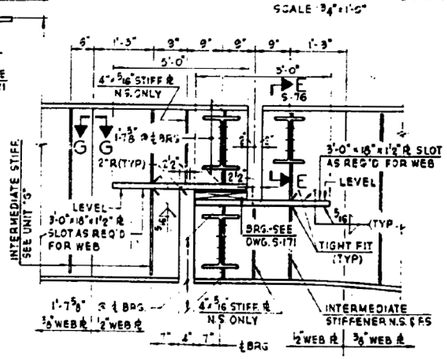
DETAIL 'E'
(TYP. FOR G65 THRU G70 & G244 THRU G249 ⊕ & ℄ BRG SPAN 17-18
& TYP. FOR G75 THRU G80 & S252 THRU S257 ⊕ & ℄ BRG. SPAN 20-21)
SCALE: ¾"=1'-0"



SECTION F-F
SCALE: ¾"=1'-0"

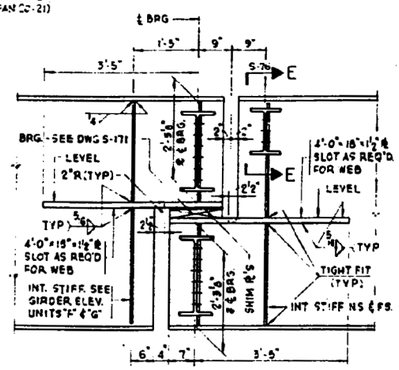


DETAIL 'F'
(TYP. FOR G73, G74, S253 & S239 ⊕ & ℄ BRG. SPAN 20-21)
SCALE ¾"=1'-0"

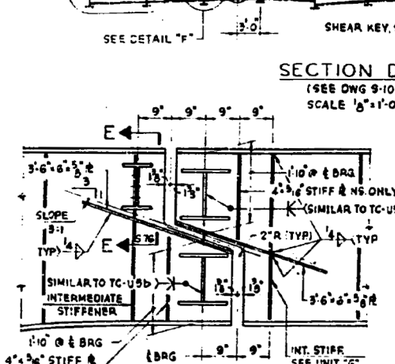


SECTION J-J
SCALE: ¾"=1'-0"

NOTE:
GIRDER FLANGES ARE SLOPED
SEE "TABLE OF WEB ELEVATIONS"



SECTION K-K
SCALE: ¾"=1'-0"



SECTION L-L
SCALE: ¾"=1'-0"

SECTION D-D
(SEE DWG S-100)
SCALE ⅛"=1'-0"

NOTES:
FOR INDICATION OF WHERE HOLD DOWN DEVICES MAY BE REQUIRED, SEE DWG. S-171.
FOR TYPICAL DETAILS OF HOLD DOWN DEVICES, SEE DWG. S-68.
WORK THIS DWG WITH DWGS S-100 THRU S-102, S-104 THRU S-108
COPE (CUT ϕ CHIP) ALL W'S AS REQ'D.
CUT STIFF ϕ CORNERS AS REQ'D, SHOWN OR NOTED.
FOR INTERMEDIATE STIFF ϕ DETAILS, SEE DWG S-104

MISCELLANEOUS STEEL DETAILS, UNIT "F"

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 [illegible]
IN CHARGE E.S.MARTINS
APPROVED W.G.HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 86 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX95 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	714
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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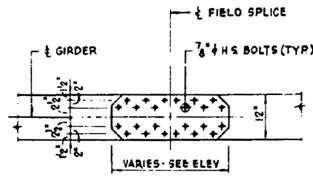
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1HVB)	ROCK ISLAND	298	154A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-104-A

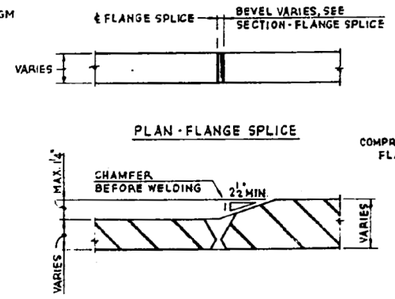
TOP OF WEB ELEVATIONS

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	502.808	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	602.853	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
℄ DIAPHRAGH 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
℄ DIAPHRAGH 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

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

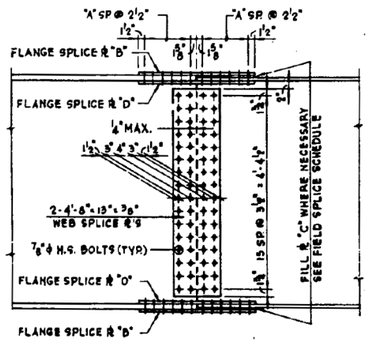


PLAN - FLANGE SPLICES
SCALE: 3/4" = 1'-0"

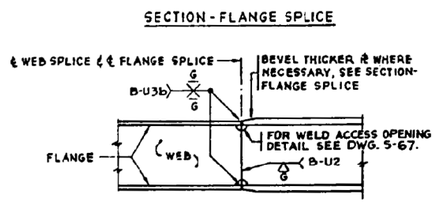


PLAN - FLANGE SPLICE

SECTION - FLANGE SPLICE



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



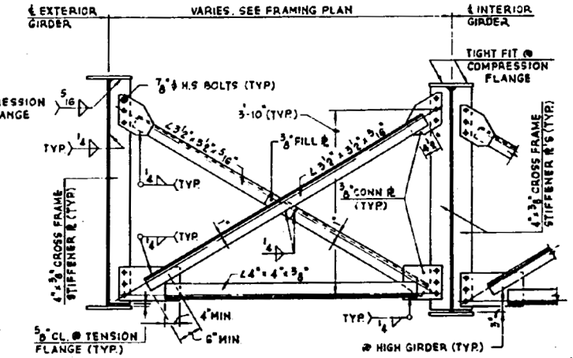
ELEVATION - FIELD WELDED SPLICE

FIELD WELDED SPLICE DETAILS

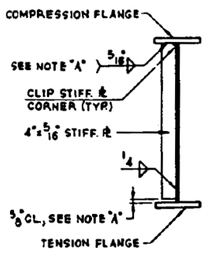
NO SCALE

FIELD SPLICE SCHEDULE

GIRDERS	SP. LINE	A	B	C	D
G64-G70 & G244-G250	31 & 32	5	12" x 1 1/2" x 2'-7 1/4"	12" x 1 5/8" x 1'-3 1/2"	2 @ 6 5/8" x 1/2" x 2'-7 1/4"
G72-G78, G80, G252-G259	35	4	12" x 1 1/2" x 2'-2 1/4"	12" x 1 5/8" x 1'-1"	2 @ 6 5/8" x 1/2" x 2'-2 1/4"
G72-G78, G80, G252-G259	34	5	12" x 1 1/2" x 2'-7 1/4"	—	2 @ 6 5/8" x 1/2" x 2'-7 1/4"
G72-G78, G80, G252-G260	35 & 36	7	12" x 3/8" x 3'-5 1/4"	12" x 1 5/8" x 1'-8"	2 @ 6 5/8" x 3/8" x 3'-5 1/4"
G72-G80 & G252-G260	37	5	12" x 1/2" x 2'-7 1/4"	12" x 1 5/8" x 1'-3 1/2"	2 @ 6 5/8" 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 1/2" x 1'-1"	2 @ 6 5/8" x 1/2" x 2'-2 1/4"

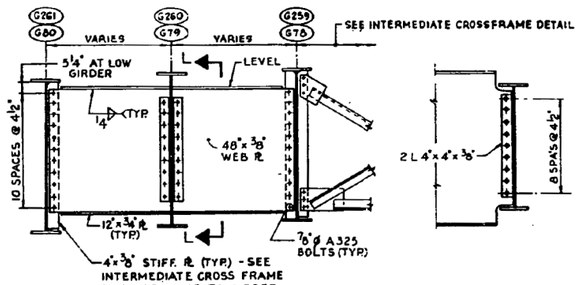


INTERMEDIATE CROSS FRAME DETAIL
SCALE: 3/4" = 1'-0"



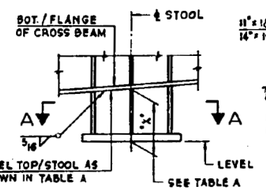
NOTE "A"
5/8" CL. AT TENSION FLANGE WELD AT COMPRESSION FLANGE FOR LIMITS OF TENSION & COMPRESSION IN FLANGES SEE GIRDER ELEVATIONS. WHERE STIFF. INTERFERES WITH FIELD FLANGE SPLICES, CUT INTERMEDIATE STIFF. AS REQ'D. AT SPECIAL LOCATIONS NEAR BEARINGS, WHERE STIFF. ARE PLACED IN PAIRS, SUBSTITUTE TIGHT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

INTERMEDIATE STIFFENER DETAIL
NO SCALE

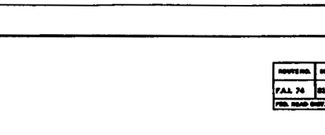


SECTION K-K
DWG. S-100
SCALE: 1/2" = 1'-0"

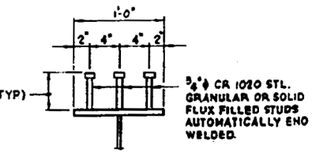
SECTION L-L
SCALE: 1/2" = 1'-0"



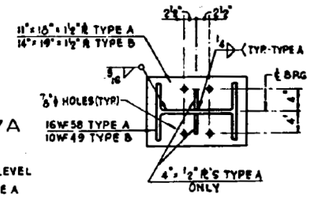
ELEVATION - STOOL
SCALE: 1" = 1'-0"



DETAIL A
NO SCALE



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



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

TABLE A		
STOOL LOCATION	"X"	SLOPE FT./FT.
G63/G71	5 3/8	.0046
G281/G261	5 5/16	.0170
G105/G71	5 1/2	.0299
G287/G261	5 1/4	.0249

STOOL LEGEND
G63/G71 - 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 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

(AS REVISED JULY 20, 1972) SCALE: AS NOTED DATE:

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

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

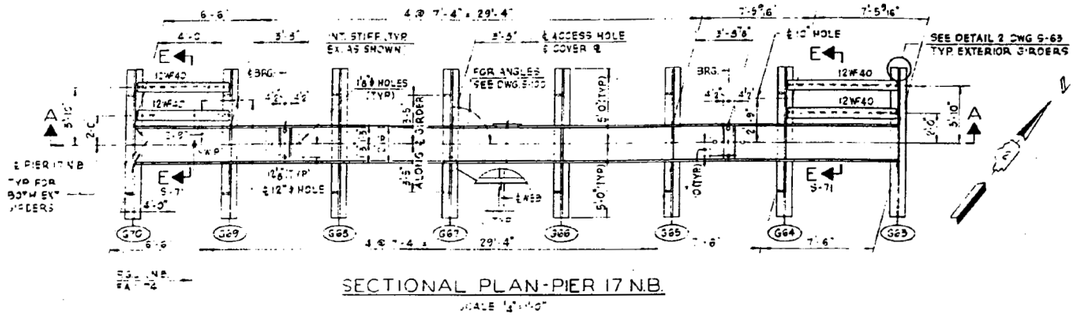
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		CHECKED - AJK	REVISED -
MODEL: 97 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX96 OF SX150 SHEETS

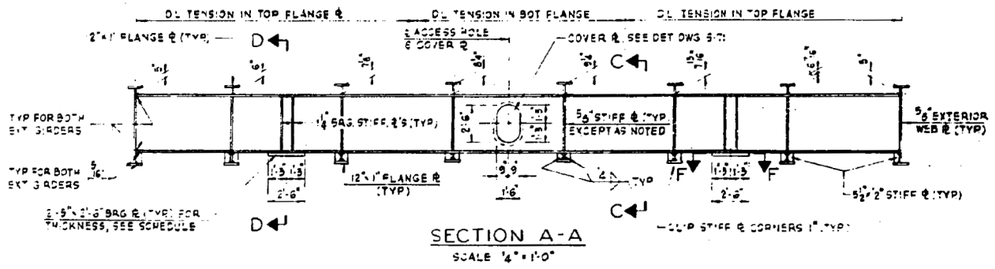
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	715
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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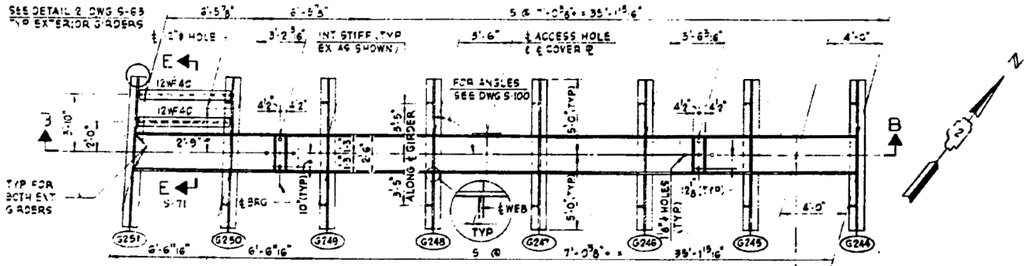
SECTIONAL PLAN-PIER 17 N.B.

SCALE ¼"=1'-0"



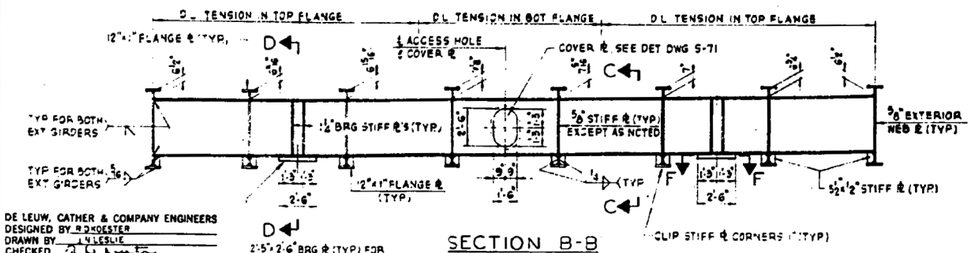
SECTION A-A

SCALE ¼"=1'-0"



SECTIONAL PLAN PIER 17 S.B.

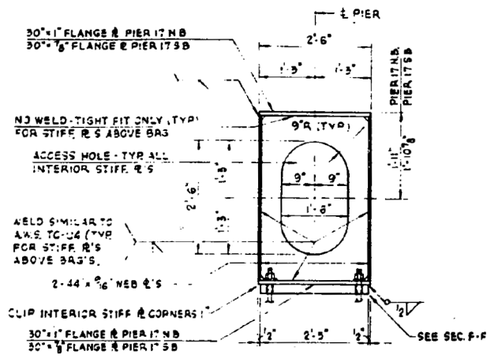
SCALE ¼"=1'-0"



SECTION B-B

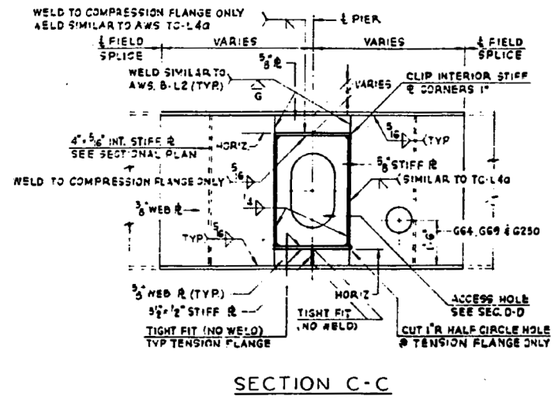
SCALE: ¼"=1'-0"

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



SECTION D-D

NO SCALE



SECTION C-C

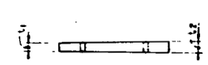
SCALE: ½"=1'-0"

NOTES

WORK THIS DWG WITH DWG. S-100 THRU S-103 & S-106 THRU S-108
ALL STIFF ℄'S & GIRDER WEBS TO BE VERTICAL.
FOR FIELD SPLICE DETAILS, SEE DWG S-104

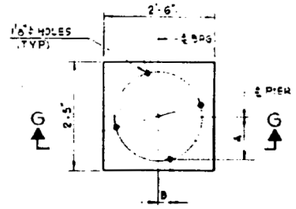
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	148	152
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-105



SECTION G-G

SCALE ¾"=1'-0"



SECTION F-F

SCALE: ¾"=1'-0"

BRG ℄ SCHEDULE

PIER	A	B	t1	t2
17 N.B. W. BRG.	12⅛"	0	2⅝"	2 21/32"
17 N.B. E. BRG.	10"	0	2⅝"	2 21/32"
17 S.B. W. BRG.	10"	0	2½"	2 13/16"
17 S.B. E. BRG.	12⅛"	0	2½"	2 13/16"
18 N.B. E & W. BRG.	10"	0	2 9/16"	3 3/16"
18 S.B. E & W. BRG.	10"	0	2 9/16"	3 3/16"
19 N.B. W. BRG.	9⅛"	9⅛"	1 15/16"	2 13/16"
19 N.B. E. BRG.	8⅛"	8⅛"	1 15/16"	2 13/16"
19 S.B. W. BRG.	8⅛"	8⅛"	1 29/32"	2⅝"
19 S.B. E. BRG.	9⅜"	9⅜"	1 29/32"	2⅝"
20 N.B. W. BRG.	10"	½"	2 5/32"	3 7/16"
20 N.B. CTR. BRG.	8"	7/16"	1 15/32"	2 3/4"
20 N.B. E. BRG.	10"	½"	2 5/32"	3 7/16"
20 S.B. W. BRG.	10"	½"	2 5/32"	3 5/16"
20 S.B. CTR. BRG.	8"	7/16"	1⅝"	2 21/32"
20 S.B. E. BRG.	10"	½"	2 5/32"	3 5/16"

CROSS GIRDERS AT PIER 17 (N.B. & S.B.)

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

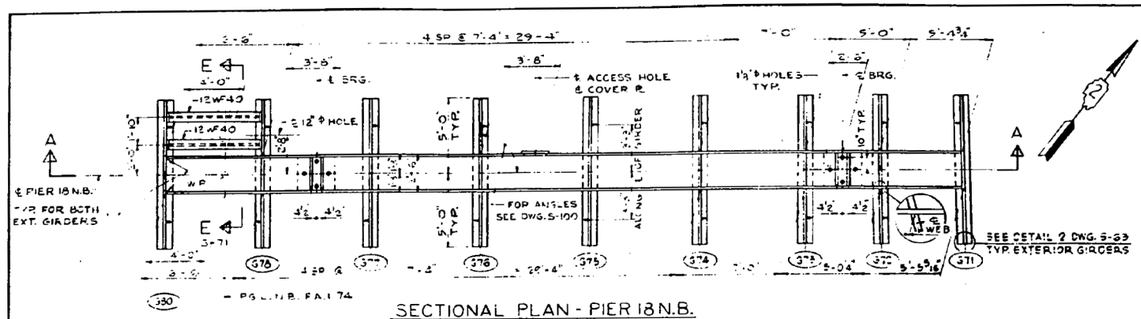
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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 88 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX97 OF SX150 SHEETS

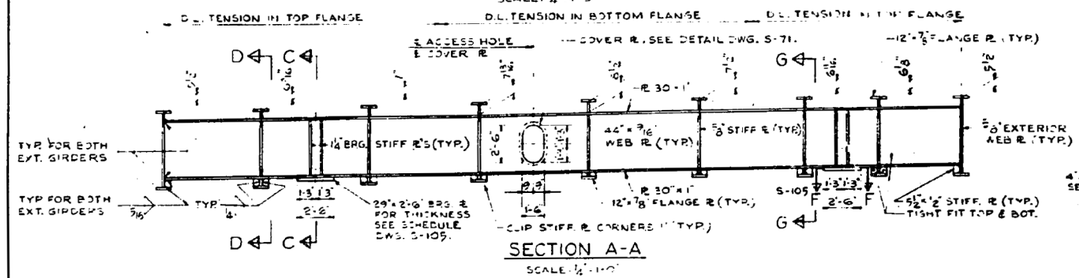
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	716
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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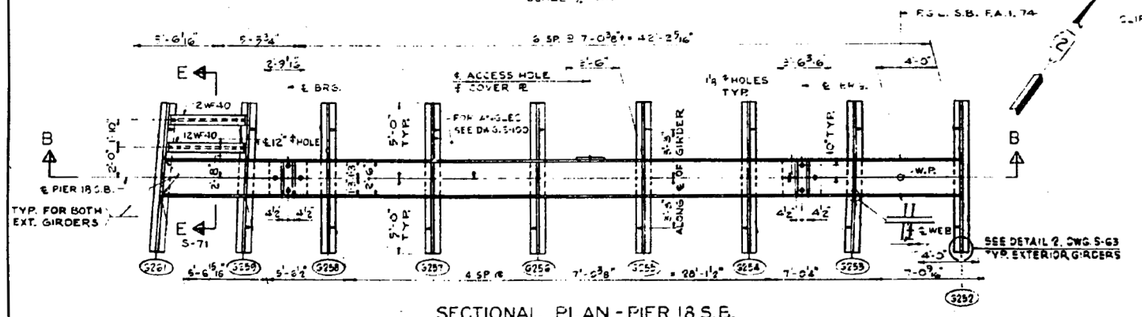
SECTIONAL PLAN - PIER 18 N.B.

SCALE: ¼"=1'-0"



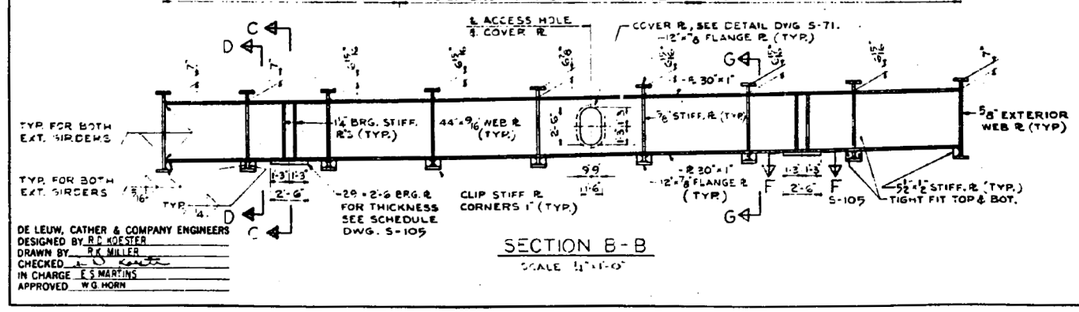
SECTION A-A

SCALE: ½"=1'-0"



SECTIONAL PLAN - PIER 18 S.B.

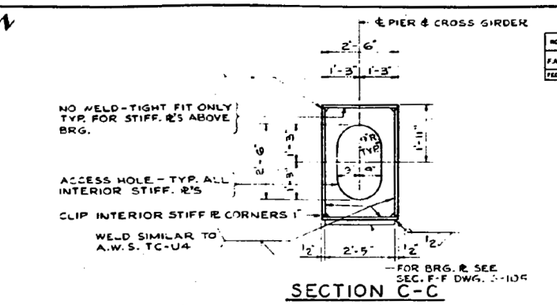
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SECTION B-B

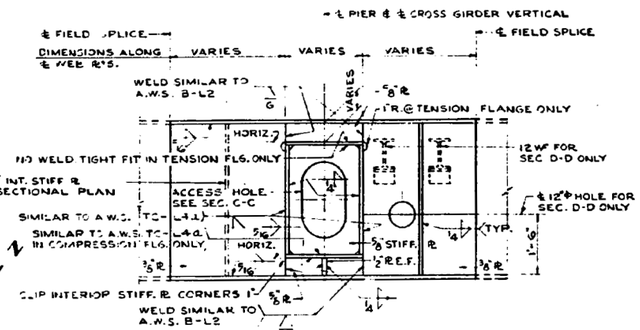
SCALE: ½"=1'-0"

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



SECTION C-C

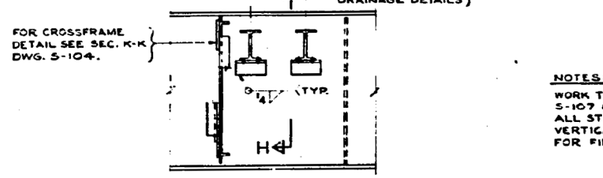
SCALE: ½"=1'-0"



SECTION D-D AS SHOWN & NOTED

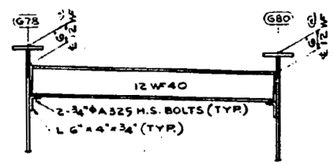
SECTION G-G SIMILAR

SCALE: ½"=1'-0"



SECTION J-J

SCALE: ½"=1'-0"



SECTION H-H

SCALE: ½"=1'-0"

NOTES:
WORK THIS DWG. WITH DWG'S. S-100 THRU S-105, S-107 & S-108.
ALL STIFFENER PL'S AND GIRDER WEBS TO BE VERTICAL.
FOR FIELD SPLICE DETAILS SEE DWG. S-104.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	[illegible]	153
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-106

CROSS GIRDERS AT PIERS 18 NB. & 18 S.B.
F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE AS NOTED DATE

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 89 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

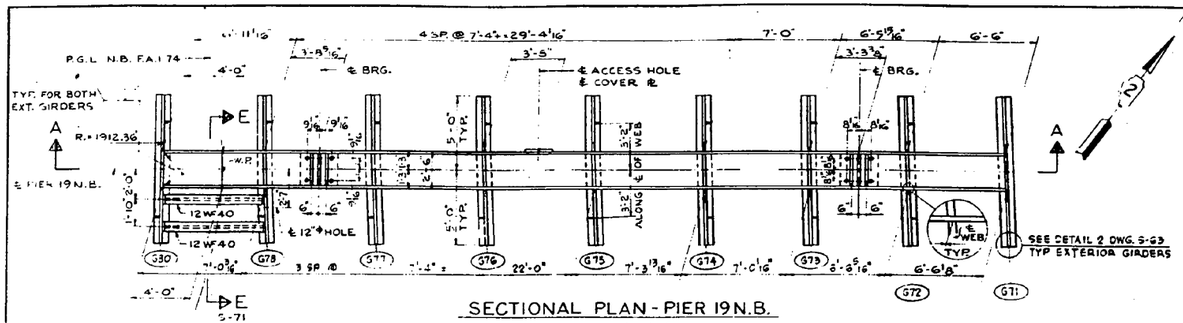
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX98 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	717
			CONTRACT NO. 64C08	
		ILLINOIS FED. AID PROJECT		

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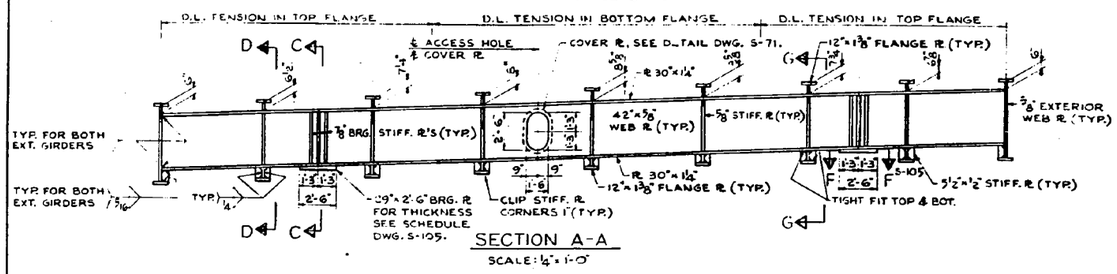
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	299	154
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

DWG. NO. S-107



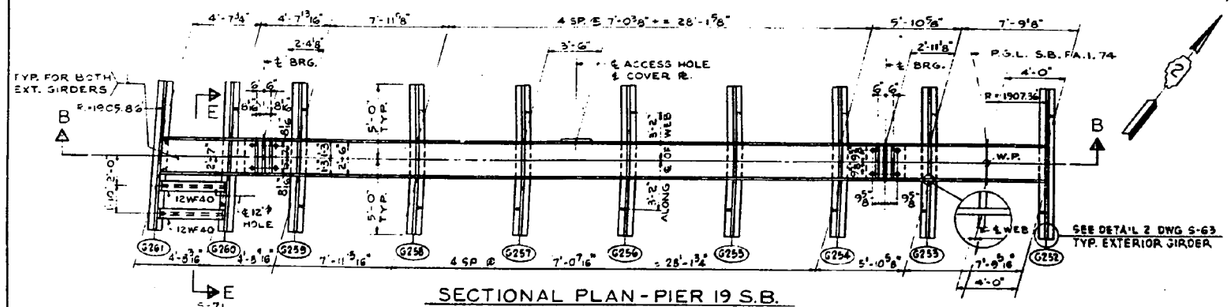
SECTIONAL PLAN - PIER 19 N.B.

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



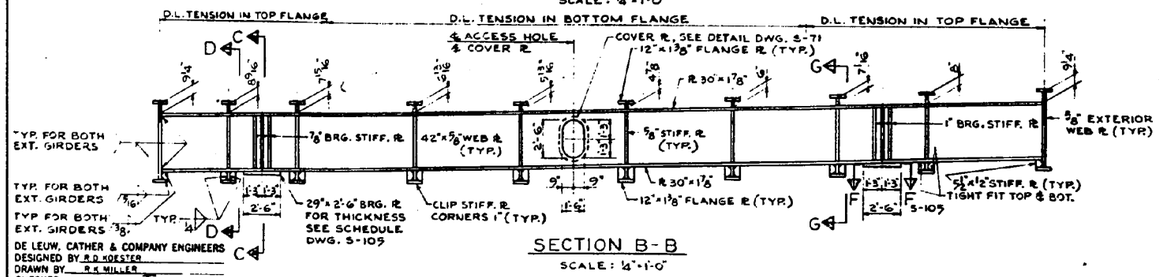
SECTION A-A

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



SECTIONAL PLAN - PIER 19 S.B.

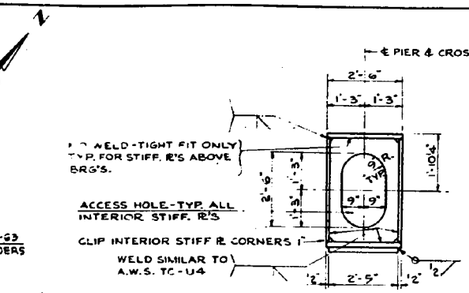
SCALE: 1/4"=1'-0"



SECTION B-B

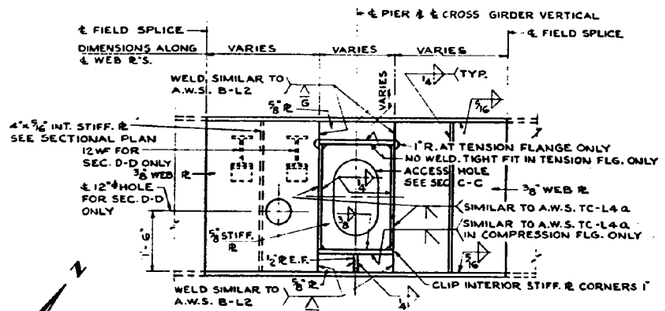
SCALE: 1/4"=1'-0"

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



SECTION C-C

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



SECTION D-D AS SHOWN & NOTED
SECTION G-G SIMILAR

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

NOTES:

WORK THIS DWG. WITH DWG'S. S-100 THRU S-106 & S-108. ALL STIFF. PL'S AND GIRDER WEBS TO BE VERTICAL. FOR FIELD SPLICE DETAILS SEE DWG. S-104.

CROSS GIRDERS AT PIERS 19 (N.B. & S.B.)

F.A.I. 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

9-9-99

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 90 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

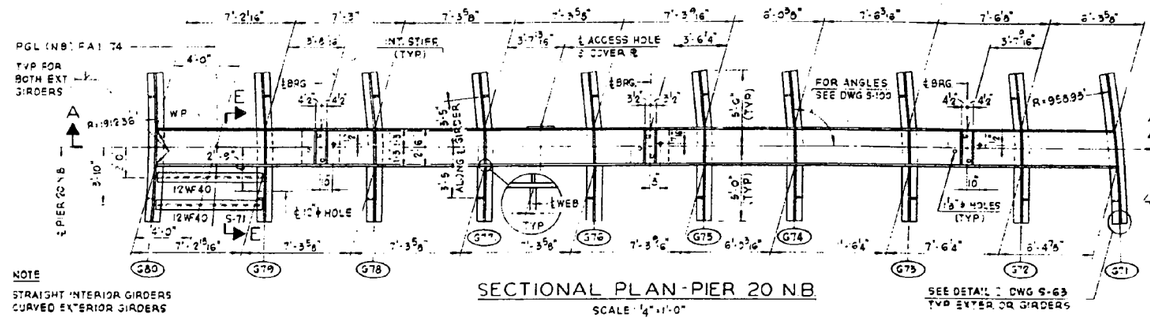
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX99 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	718
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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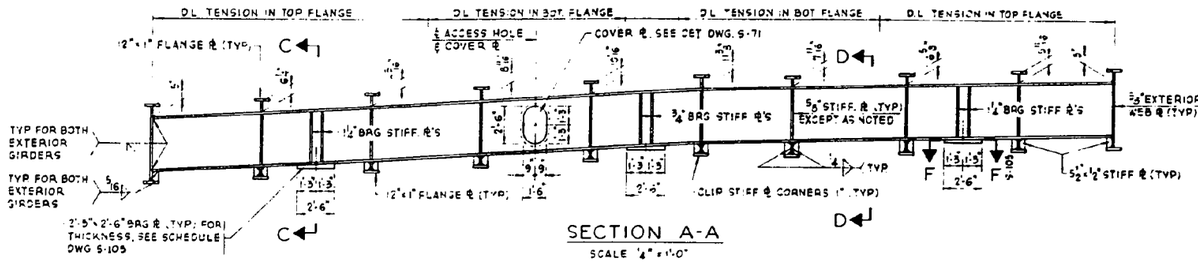
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	578	155
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - 78		

DWG. NO. S-108



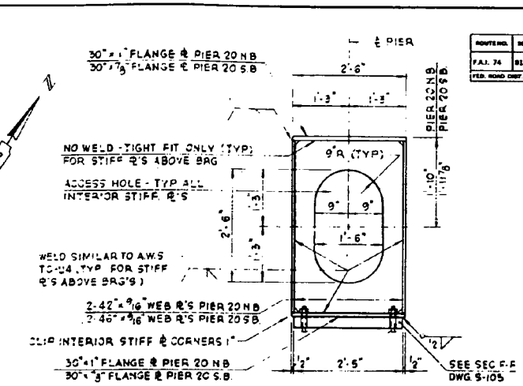
SECTIONAL PLAN - PIER 20 NB

SCALE 1/4"=1'-0"



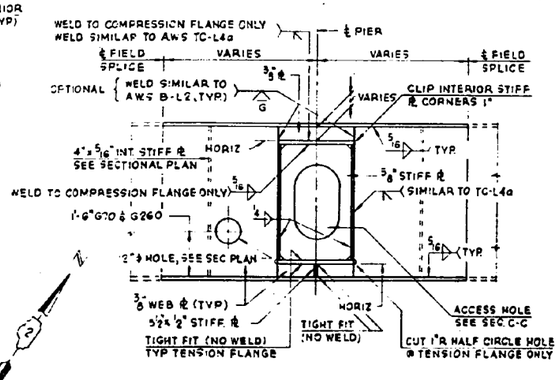
SECTION A-A

SCALE 1/4"=1'-0"



SECTION C-C

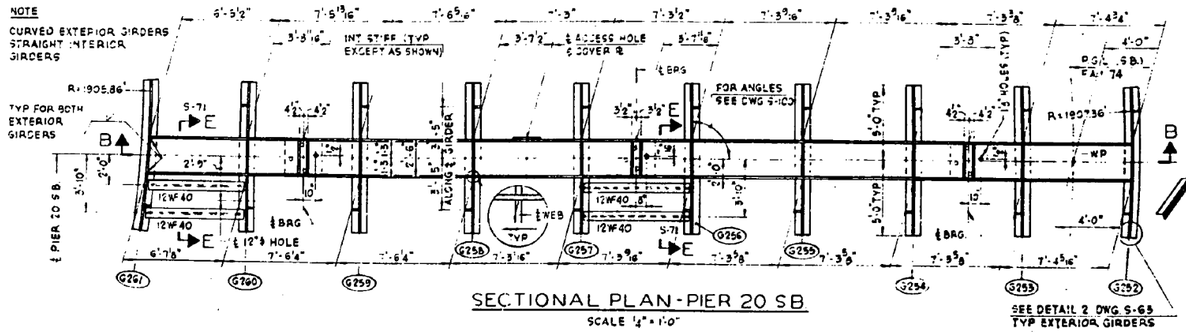
NO SCALE



SECTION D-D

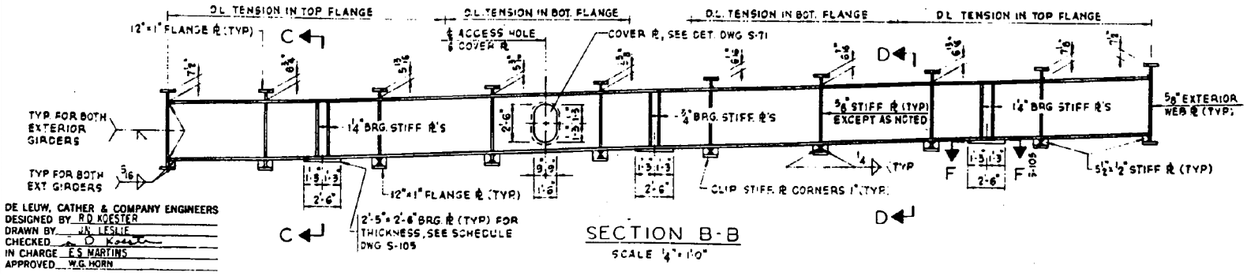
(TYPICAL FOR INTERIOR GIRDERS)
SCALE 1/2"=1'-0"

NOTE
CURVED EXTERIOR GIRDERS
STRAIGHT INTERIOR GIRDERS



SECTIONAL PLAN - PIER 20 SB

SCALE 1/4"=1'-0"



SECTION B-B

SCALE 1/4"=1'-0"

NOTES
WORK THIS DWG WITH DWGS S-100 THRU S-107
ALL STIFF ℄'S & GIRDER WEBS TO BE VERTICAL
FOR FIELD SPLICE DETAILS SEE DWG S-104

CROSS GIRDERS AT PIERS 20 N.B. & 20 S.B.
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 O. Koester
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8010178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 91 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

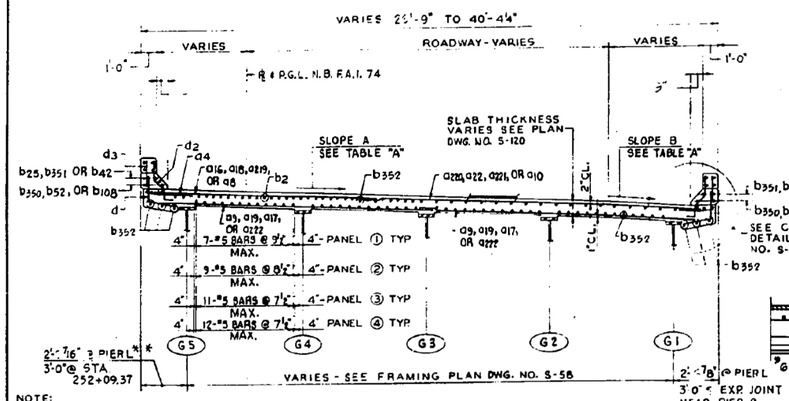
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX100 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	719
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	[illegible]	59
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-122



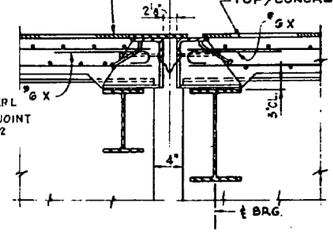
NOTE:
FOR LONGITUDINAL BOTTOM REINFORCEMENT PANELS, SEE PLAN DWG. NO. S-120.
FOR PLACEMENT OF BARS IN PARAPET SEE DWG. NO. S-123

** VARIES RATE OF CHANGE NOT CONSTANT.

NEAR PIER NEAR MIDSPAN

CROSS SECTION A-A (N.B)

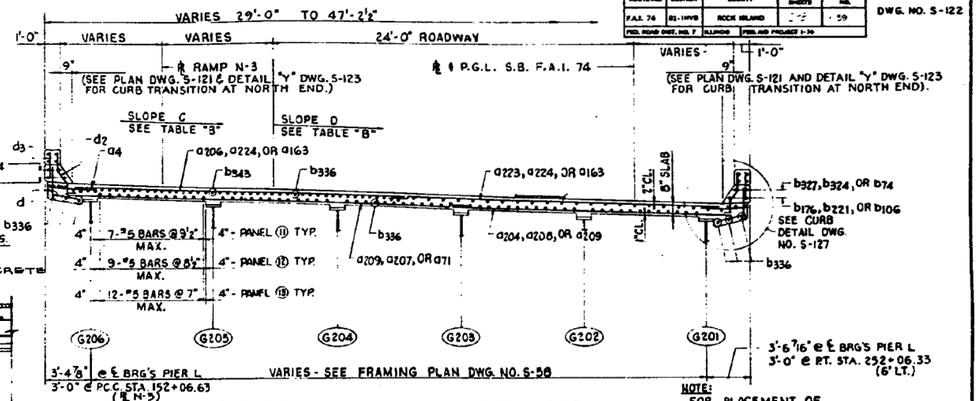
NOT TO SCALE



SECTION B-B

SCALE: 1" = 1'-0"

SEE DWG. S-165 FOR SLIDING PLATE EXPANSION DEVICE DETAILS.

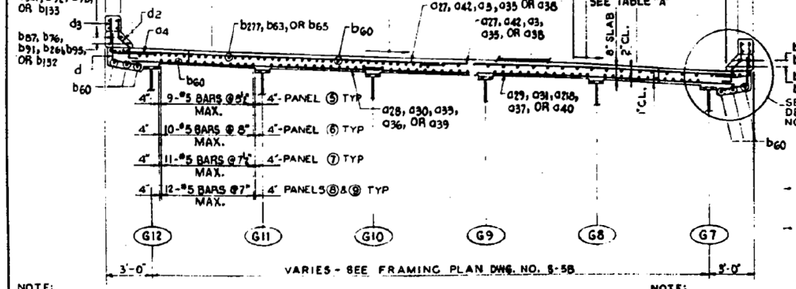


NOTE:
FOR PLACEMENT OF BARS IN PARAPET SEE DWG. NO. S-123. FOR LONGITUDINAL BOTTOM REINFORCEMENT PANELS, SEE PLAN DWG. NO. S-121

NEAR PIER NEAR MIDSPAN

CROSS SECTION D-D (S.B.)

SCALE: ¼"=1'-0"



NOTE:
FOR LONGITUDINAL BOTTOM REINFORCEMENT PANELS SEE PLAN DWG. NO. S-120

NEAR PIER NEAR MIDSPAN

CROSS SECTION C-C (N.B)

SCALE: ¼"=1'-0"

NOTE:
FOR PLACEMENT OF BARS IN PARAPET SEE DWG. NO. S-123

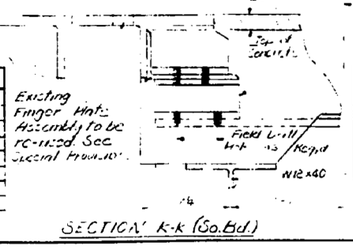
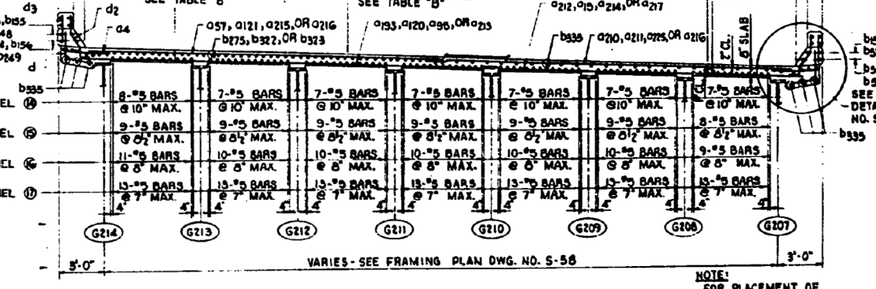


TABLE - A (N.B.)					
STATION	SLOPE "A"	SLOPE "B"	STATION	SLOPE "A"	SLOPE "B"
250+96.19	*	*	253+97	0.0329	0.0566
251+50	0.0092	0.0092	254+48	↓	0.0488
251+75	0.0140	0.0140	255+00	↓	0.0385
252+75	0.0329	0.0391	255+25	0.0329	0.0384
252+95	0.0329	0.0469			
253+46	0.0329	0.0501			

* SLOPE PAV'T. TO MATCH EXISTING CROSS SLOPE

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



NOTE:
FOR PLACEMENT OF BARS IN PARAPET SEE DWG. NO. S-123.
FOR LONGITUDINAL BOTTOM REINFORCEMENT PANELS SEE DWG. S-121.

NEAR PIER NEAR MIDSPAN

CROSS SECTION E-E (S.B.)

SCALE: ¼"=1'-0"

TABLE - B (S.B.)					
STATION	SLOPE "D"	SLOPE "C"	STATION	SLOPE "D"	SLOPE "C"
250+80.58	*	*	253+39	0.0300	0.0302
251+00	0.0300	0.0300	253+66	↓	0.0290
251+44	↓	0.0208	254+37	↓	0.0280
251+93	↓	0.0525	254+85	↓	0.0277
252+42	↓	0.0520	255+33	↓	0.0274
252+91	0.0300	0.0423	255+83.25	0.0300	0.0272

* SLOPE PAV'T. TO MATCH EXISTING CROSS SLOPE

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

10 DISS

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: '92 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

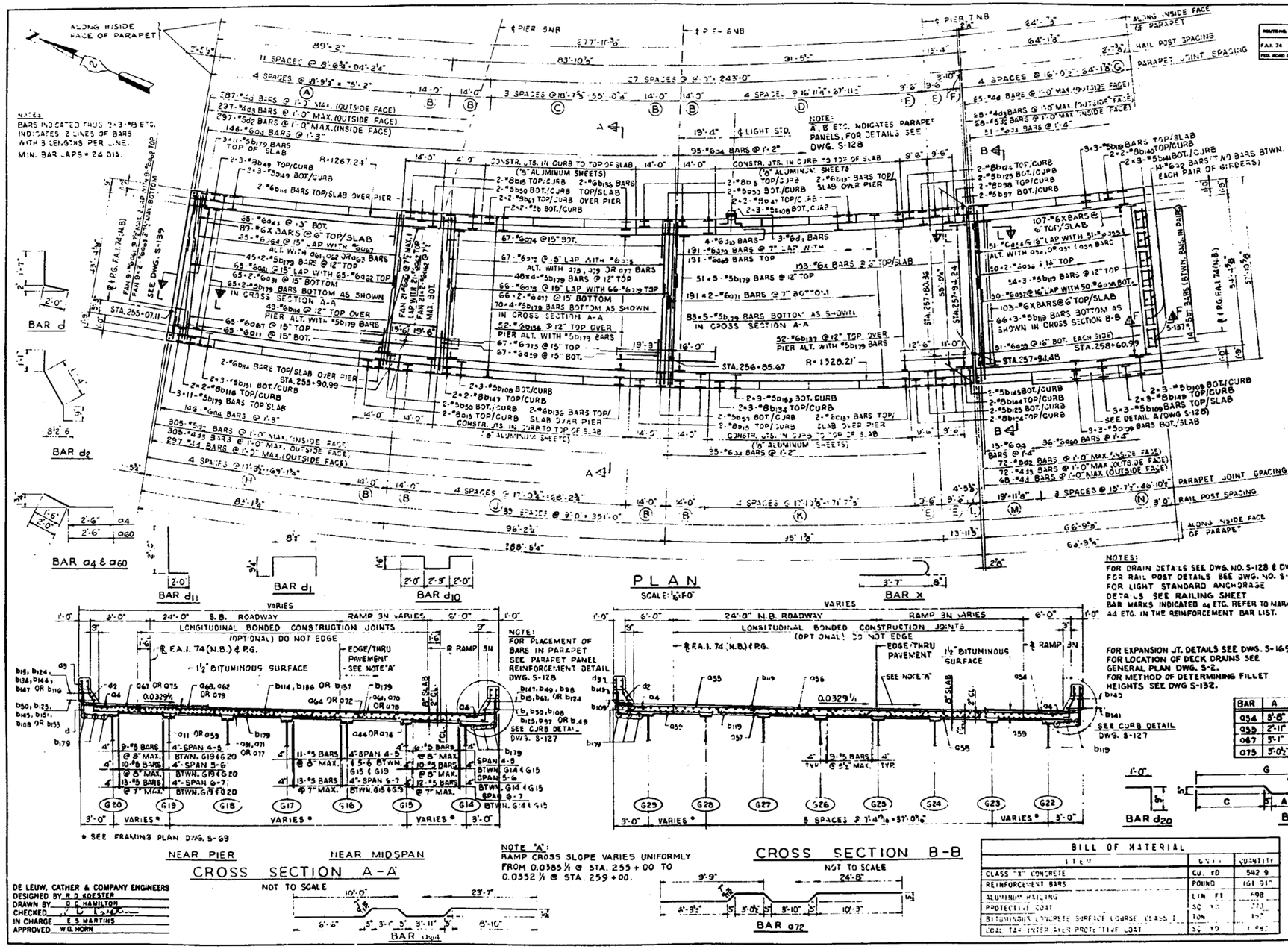
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX101 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	720
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 74	(81 - 1) R	ROCK ISLAND	1504	721
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

DWG. NO. S-126



REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	SIZE	LENGTH	SHAPE
A2	16	6	7'- 3	
A4	568	6	64'- 3	
A11	66	6	8'- 0	
A11	193	6	24'- 0	
A44	85	6	7'- 6	
A54	91	6	24'- 0	
A55	91	6	32'- 6	
A55	130	6	28'- 9	
A57	53	6	25'- 0	
A58	59	6	32'- 5	
A59	143	6	10'- 3	
A62	38	6	8'- 0	
A61	95	6	29'-10	
A62	95	6	20'- 6	
A66	65	6	24'- 1	
A67	143	6	26'- 0	
A69	141	6	27'- 2	
A70	141	6	27'- 2	
A71	147	6	27'- 4	
A72	67	6	25'- 2	
A74	77	6	15'- 6	
A75	67	6	28'- 5	
A77	142	6	25'-11	
A78	77	6	22'- 1	
A79	88	6	29'-10	
P	14	5	26'- 7	
R7	14	5	26'- 7	
B45	16	6	11'- 0	
B49	6	6	26'- 4	
B50	15	5	14'- 9	
B97	4	5	29'- 0	
B97	2	5	3'- 6	
B98	2	5	3'- 6	
B1109	12	5	23'- 6	
B1114	53	6	35'- 0	
B1116	4	6	35'- 6	
B1119	369	6	23'- 0	
B1124	8	5	9'- 3	
B1125	8	5	9'- 3	
B1134	6	5	25'- 2	
B1136	4	5	25'- 2	
B1137	56	6	23'- 6	
B1140	4	6	33'- 0	
B1141	5	6	22'- 3	
B1143	6	6	24'- 1	
B1144	2	6	4'- 2	
B1145	2	6	5'- 2	
B1147	4	5	35'- 9	
B1149	4	5	25'-11	
B1151	6	5	23'-11	
B153	8	5	24'- 8	
B1170	25	5	24'- 6	
B1179	1476	6	27'- 5	
D	717	4	2'- 7	
D1	134	4	2'- 3	
D2	742	5	3'- 3	
D3	742	4	3'- 3	
D17	4	4	4'- 2	
D11	1	4	4'- 0	
D20	20	4	1'- 9	
E	32	4	13'- 8	
E1	16	4	16'- 8	
E21	12	4	18'- 4	
E30	4	4	3'- 6	
E44	16	4	17'- 0	
E49	16	4	9'- 2	
E50	16	4	15'- 9	
E51	16	4	16'- 9	
E52	16	4	17'- 7	
E53	4	4	4'- 2	
E54	4	4	19'- 8	
E55	12	4	15'- 4	
E56	16	4	16'- 6	
R	402	4	4'- 3	

BAR	A	B	C	D	E	F	G
a54	5'-8"	2'-11"	10"	11'-1"	27'-8"	15'-8"	7'-10"
a55	2'-11"	3'-8"	10'-4"	8'-1"	31'-8"	25'-2"	17'-9"
a67	5'-1"	5'-11"	9'-2½"	2'-6"	25'-10"	23'-10½"	17'-0½"
a75	5'-0½"	3'-10"	11'-3"	10"	27'-9"	26'-6"	18'-9½"

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS "B" CONCRETE	CU. YD	542.9
REINFORCEMENT BARS	POUND	151 01
ALUMINUM RAILING	LIN FT	498
PROTECTIVE COAT	SQ YD	273
BITUMINOUS CONCRETE SURFACE COURSE (CLASS I)	TON	107
COAL TAR EPOXY PROTECTIVE COAT	SQ YD	1 090

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

DECK SLAB - UNIT "B" N.B. - PLAN & SECTIONS

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 255+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 93 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX102 OF SX150 SHEETS

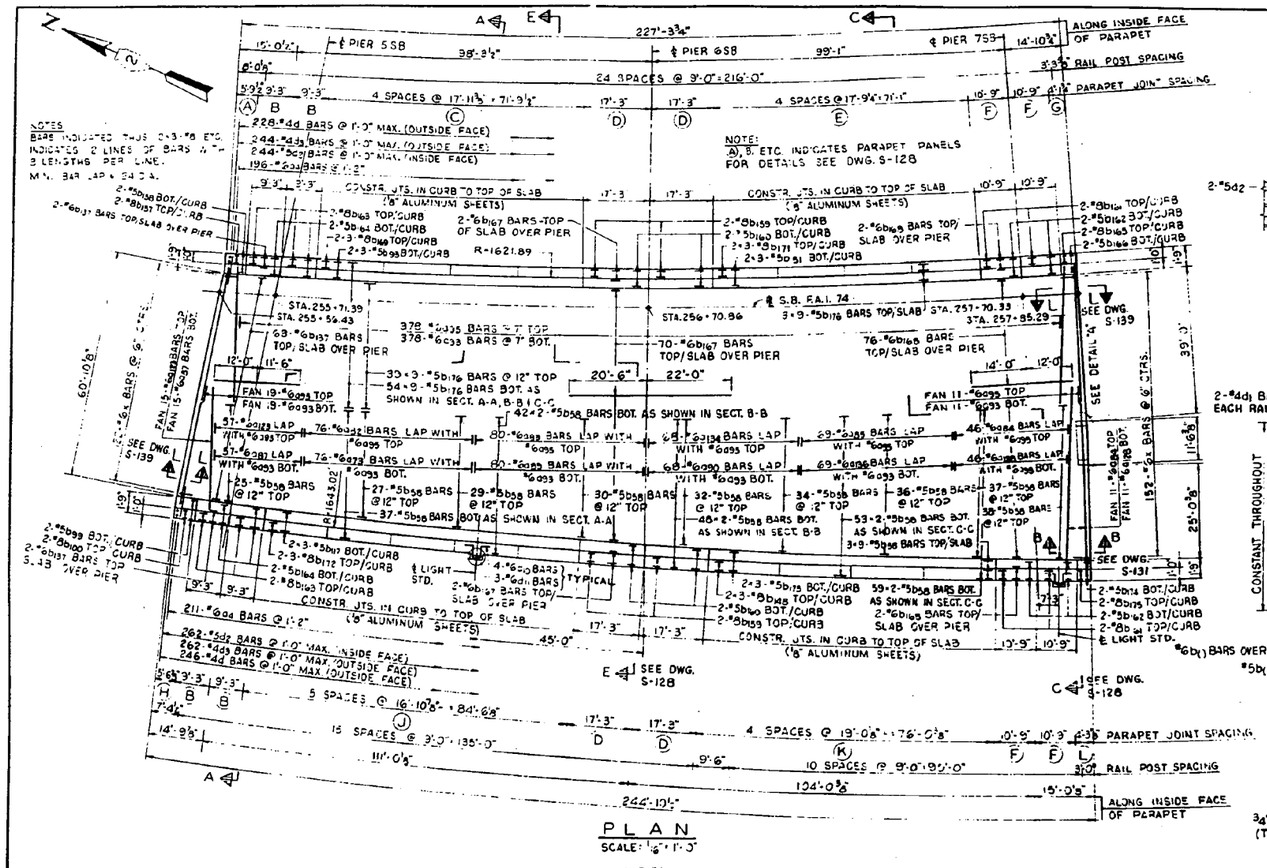
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	721
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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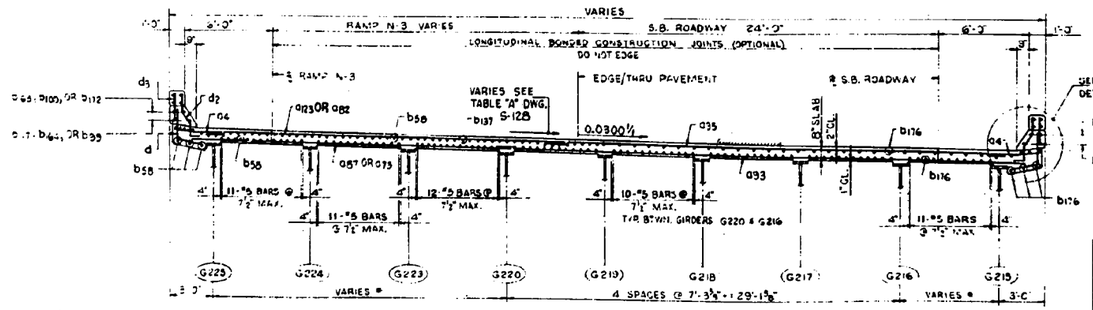
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	[illegible]	[illegible]
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # 36		

DWG NO S-27

NOTES
BARS INDICATED THUS 2-#8 ETC. INDICATES 2 LINES OF BARS WITH 3 LENGTHS PER LINE.
MIN. BAR LAP = 64 D.A.



PLAN
SCALE: 1/16" = 1'-0"

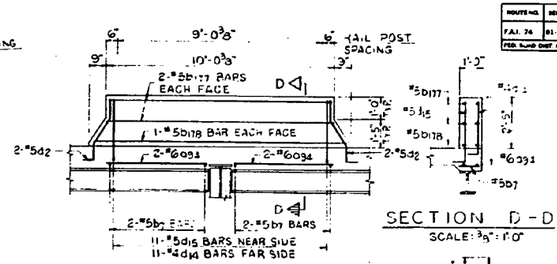


NEAR PIER NEAR MIDSPAN

CROSS SECTION A-A
SCALE ¼" = 1'-0"

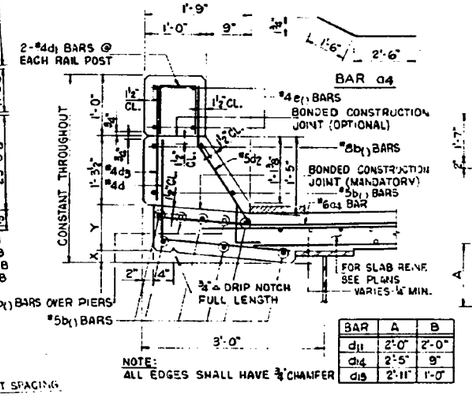
* SEE FRAMING PLAN DWG. S-69

NOTE: FOR PLACEMENT OF BARS IN PARAPET SEE PARAPET PANEL REINFORCEMENT DETAIL DWG. S-128



DETAIL A
SCALE: ⅜" = 1'-0"

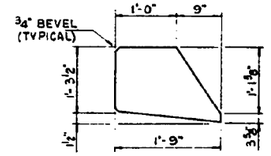
SECTION D-D
SCALE: ⅜" = 1'-0"



BAR	A	B
d_{11}	2'-0"	2'-0"
d_{14}	2'-5"	9"
d_{15}	2'-11"	1'-0"

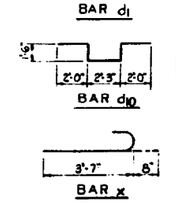
NOTE: ALL EDGES SHALL HAVE ¾" CHAMFER

CURB DETAIL
SCALE: 1" = 1'-0"



DETAIL OF ⅛" ALUMINUM SHEETS
(A.S.T.M. B209 ALLOY 3003-H14)
SCALE: 1½" = 1'-0"

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



REINFORCING BAR LIST					
BAR MARK	QUANTITY PER UNIT				
A4	437	4	6		
A73	74	4	6		
A92	74	4	6		
A93	74	4	6		
A94	74	4	6		
A95	69	4	6		
A97	72	4	6		
A98	72	4	6		
A90	74	4	6		
A93	74	4	6		
A95	69	4	6		
A96	72	4	6		
A123	72	4	6		
A124	74	4	6		
A114	74	4	6		
A116	74	4	6		
A7	74	4	6		
R91	4	4	6		
R58	116	4	6		
R93	4	4	6		
R97	4	4	6		
R100	4	4	6		
B117	74	4	6		
B137	57	4	6		
B144	4	4	6		
B157	4	4	6		
B154	4	4	6		
B159	4	4	6		
B150	4	4	6		
B161	4	4	6		
B142	4	4	6		
B163	4	4	6		
B164	4	4	6		
B165	4	4	6		
B166	4	4	6		
B167	74	4	6		
B168	40	4	6		
B169	4	4	6		
B172	4	4	6		
B173	4	4	6		
B175	2	4	6		
B176	964	4	6		
B177	4	4	6		
B178	4	4	6		
D1	474	4	6		
D2	108	4	6		
D3	530	4	6		
D4	504	4	6		
D10	8	4	6		
D11	8	4	6		
D14	11	4	6		
D15	11	4	6		
E3	15	4	6		
E20	15	4	6		
E24	20	4	6		
E25	16	4	6		
E26	16	4	6		
E38	4	4	6		
E43	16	4	6		
E45	16	4	6		
E46	4	4	6		
E47	4	4	6		
E49	4	4	6		
4	274	6	6		

NOTE:
BAR MARKS INDICATED d4 ETC. REFER TO MARK 44 ETC. IN THE REINFORCEMENT BAR LIST.

NOTES:
FOR EXPANSION JOINT DETAILS SEE DWG. S-165
FOR LOCATION OF DECK DRAINS SEE GENERAL PLAN DWG. S-2
FOR DRAIN DETAILS SEE DWG. S-128
FOR DETAILS OF DECK DRAINS SEE DWG. D-1
FOR RAIL POST DETAILS SEE DWG. S-172
FOR DETAIL OF PARAPET @ LIGHT STANDARD SEE RAILING SHEET.
FOR METHOD OF DETERMINING FILLET HEIGHTS SEE DWG. S-132
ALL LONGITUDINAL DIMENSIONS ARE GIVEN ALONG INSIDE FACE OF PARAPET

FASCIA DIMENSIONS		
LOCATION	X	Y
EAST FASCIA N.B.	3½"	9"
WEST FASCIA N.B.	5"	9"
EAST FASCIA S.B.	3½"	9"
WEST FASCIA S.B.	5"	9¼"

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	486.4
REINFORCEMENT BARS	POUND	161,370
ALUMINUM RAILING	LIN. FT.	473
PROTECTIVE COAT	SQ. YD.	185
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	46
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	1,179

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

DECK SLAB - UNIT "B" S.B. PLAN, SECTION & DETAILS

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

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

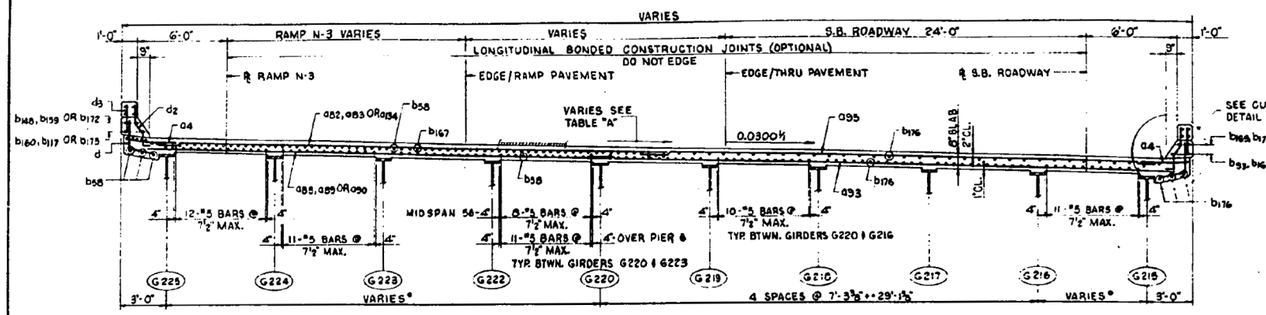
FILE NAME = 8818178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 94 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX103 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	722
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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NEAR PIER

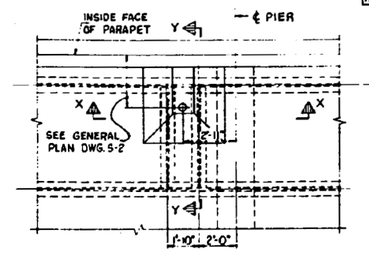
* SEE FRAMING PLAN DWG. S-69

NEAR MIDSPAN

CROSS SECTION E-E

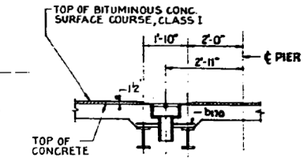
SCALE: ⅛" = 1'-0"

NOTE:
FOR PLACEMENT OF BARS IN PARAPET
SEE PARAPET PANEL REINFORCEMENT DETAIL



DRAIN DETAIL

SCALE: ½" = 1'-0"

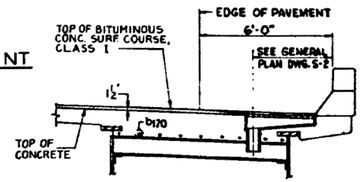


SECTION X-X

SCALE: ⅜" = 1'-0"

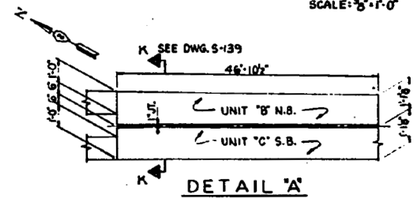
DRAIN REINFORCEMENT

LOCATION	#5 b170
PIER 5 N.B.	7
PIER 6 N.B.	9
PIER 7 N.B.	9
PIER 5 S.B.	8
PIER 6 S.B.	8
PIER 7 S.B. G215-G216	8
PIER 7 S.B. G222-G223	8

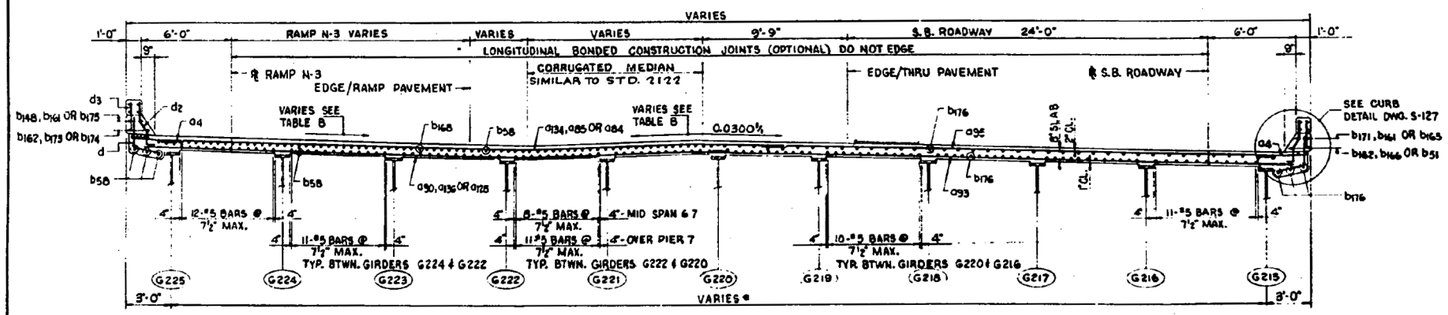


SECTION Y-Y

SCALE: ⅜" = 1'-0"



DETAIL "A"



NEAR PIER

* SEE FRAMING PLAN DWG. S-69

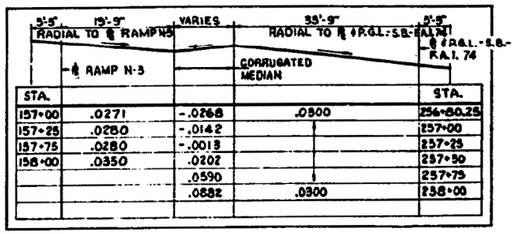
NEAR MIDSPAN

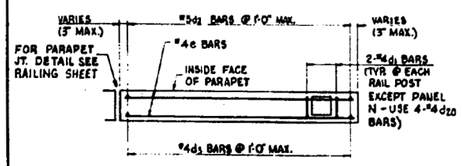
CROSS SECTION C-C

SCALE: ⅛" = 1'-0"

NOTE:
FOR PLACEMENT OF BARS IN PARAPET
SEE PARAPET PANEL REINFORCEMENT DETAIL

TABLE-B





PLAN-TYPICAL PARAPET PANEL REINFORCEMENT

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL #5 d_2 **	#4 d_3 **	#4 c **
NORTH BOUND	A	4	20	20	2-#4c36 E.F.
	B	8	15	15	2-#4c E.F.
	C	3	20	20	2-#4c21 E.F.
	D	4	18	18	2-#4c1 E.F.
	E	4	10	10	2-#4c29 E.F.
	F	1	5	5	2-#4c30 E.F.
	G	4	17	17	2-#4c30 E.F.
	H	4	18	18	2-#4c44 E.F.
	J	4	18	18	2-#4c34 E.F.
	K	4	19	19	2-#4c32 E.F.
	L	1	5	5	2-#4c36 E.F.
	M	1	21	21	2-#4c34 E.F.
	N	3	17	17	2-#4c35 E.F.

* * BARS d_1, d_2, d_3, d_{20}, & ALL c BARS ARE DETAILED & BILLED ON DWG. S-128

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL #5 d_2 ***	#4 d_3 ***	#4 c ***
SOUTH BOUND	A	1	7	7	2-#4c47 E.F.
	B	4	10	10	2-#4c23 E.F.
	C	4	19	19	2-#4c20 E.F.
	D	4	16	16	2-#4c44 E.F.
	E	4	19	19	2-#4c26 E.F.
	F	4	12	12	2-#4c43 E.F.
	G	1	5	5	2-#4c48 E.F.
	H	1	7	7	2-#4c31 E.F.
	J	5	16	16	2-#4c24 E.F.
	K	4	20	20	2-#4c29 E.F.
	L	1	5	5	2-#4c48 E.F.

* * * BARS d_1, d_2, d_3 & ALL c BARS ARE DETAILED & BILLED ON DWG. S-127

TABLE-A

STA.	RAMP CROSS SLOPE
255+35	.0274
255+83.25	.0272
256+32	.0269
256+80.25	.0268

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 SLAB - UNIT "B" SECTIONS AND DETAILS
F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 255+20
SCALE: AS NOTED DATE

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 95 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX104 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	723
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

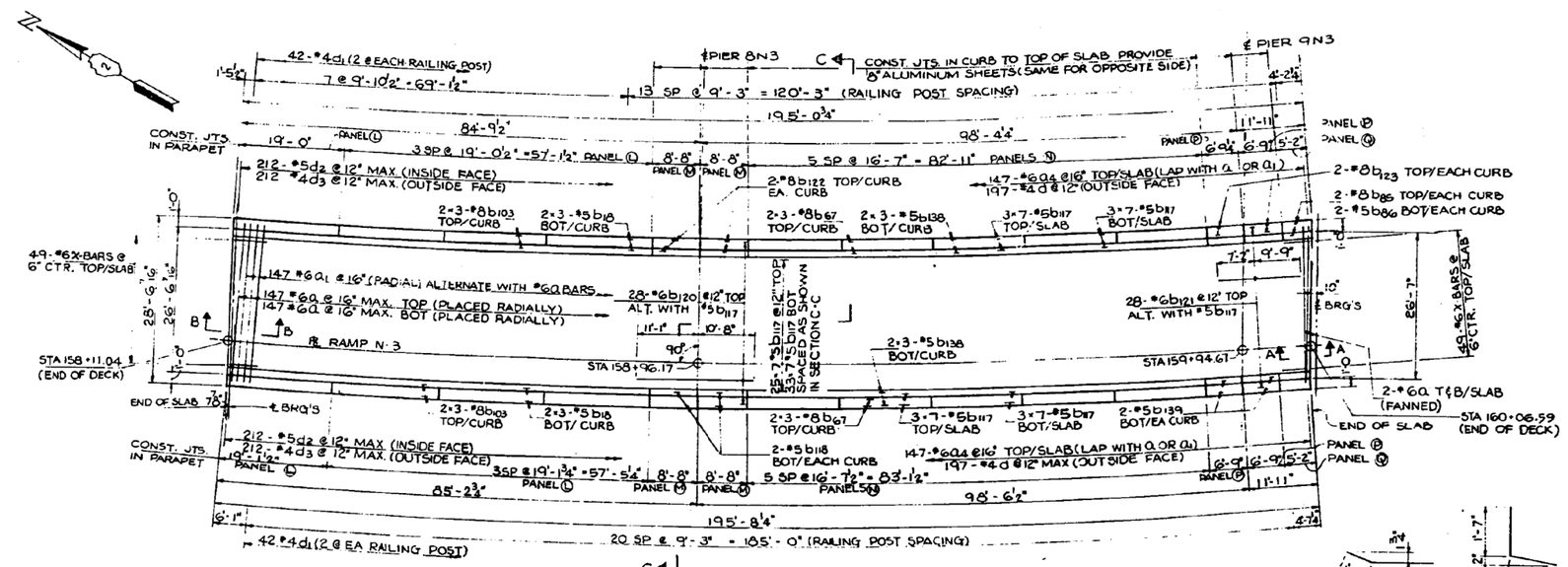
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

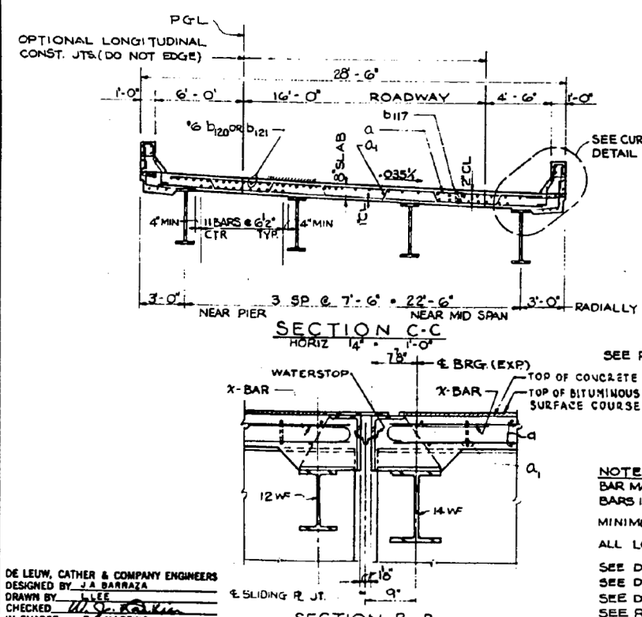
DWG. NO. S-131

REINFORCING BAR LIST

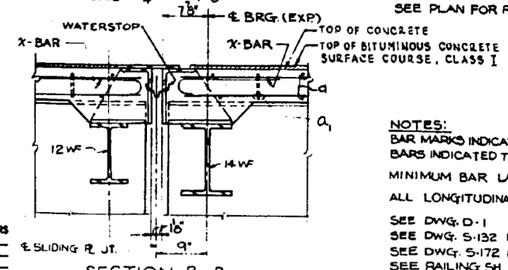
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A	298	6	26'- 0	
A1	147	6	26'- 0	
A4	294	6	4'- 0	
B18	12	5	24'- 3	
B67	12	8	29'- 0	
B85	4	8	4'-10	
B86	4	5	4'-10	
B103	12	8	26'-10	
B117	490	5	29'- 0	
B118	8	5	8'- 4	
B120	28	6	21'- 9	
B121	28	6	16'-11	
B122	8	8	8'- 4	
B123	8	8	4'- 5	
B139	12	5	24'- 5	
B170	16	5	2'- 4	
C	390	4	3'- 7	
D1	84	4	2'- 3	
D2	424	5	3'- 8	
D3	424	4	2'- 0	
E3	32	4	18'- 9	
E13	40	4	16'- 3	
E23	8	4	4'-10	
E37	16	4	8'- 4	
E38	16	4	6'- 3	
X	98	6	8'- 7	



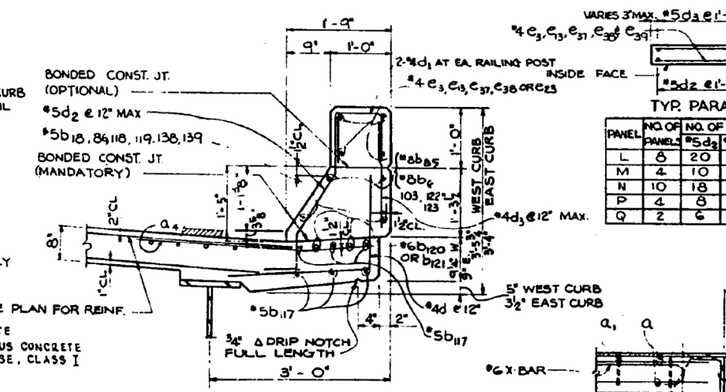
PLAN
3/32" = 1'-0"



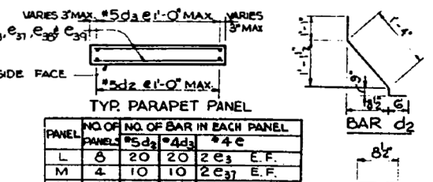
SECTION C-C
HORIZ 1¼" = 1'-0"



SECTION B-B
1" = 1'-0"

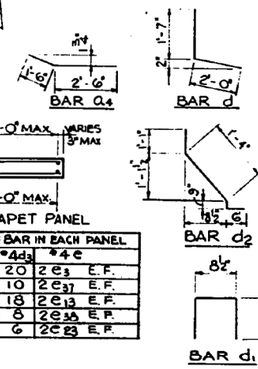


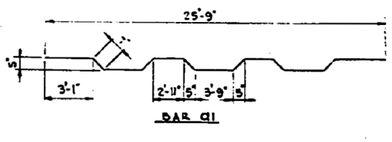
CURB DETAIL
1" = 1'-0"



TYP. PARAPET PANEL

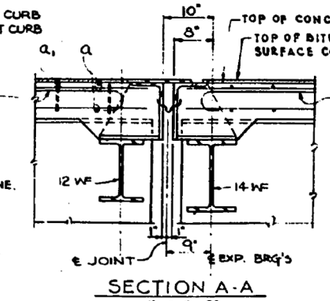
PANEL	NO. OF PANELS	NO. OF BAR IN EACH PANEL #5d2	#4d3	#4e
L	8	20	20	2 e3 E.F.
M	4	10	10	2 e37 E.F.
N	10	18	18	2 e13 E.F.
P	4	8	8	2 e38 E.F.
Q	2	6	6	2 e39 E.F.



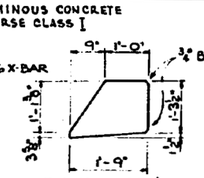


BILL OF MATERIAL

ITEM	UNIT	QUANTITY
BITUMINOUS CONC SURFACE COURSE, CLASS I	TON	44
COAL TAR INTERLAYER PROTECTIVE COAT	SQ.YD.	550
CLASS X CONCRETE	CU. YD	190.5
REINFORCING BARS	POUND	43,672
ALUMINUM RAILING	LIN. FT	391
PROTECTIVE COAT	SQ. YD.	155

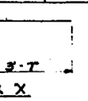


SECTION A-A
1" = 1'-0"



DETAIL OF ALUMINUM SHEET
3/4" = 1'-0"

(MATERIAL & COST ARE INCIDENTAL) TYP



BAR X

NOTES:

BAR MARKS INDICATED a_4 ETC. REFER TO MARK A_4 ETC. IN BAR LIST.
BARS INDICATED THUS:- 2-3-#8 ETC. CALL FOR 2 LINES OF BARS 3 LENGTHS PER LINE.
MINIMUM BAR LAP SHALL BE 24 DIA.
ALL LONGITUDINAL DIMENSIONS GIVEN ALONG INSIDE FACE OF PARAPET.
SEE DWG. D-1 FOR DETAIL OF SCUPPERS - SEE DWG. S-2 & S-3 FOR LOCATION.
SEE DWG. S-132 FOR METHOD OF DETERMINING FILLET HEIGHT "C".
SEE DWG. S-172 FOR RAIL POST DETAIL.
SEE RAILING SH. FOR PARAPET JOINT FILLER DETAIL.
SEE DWG. S-140A FOR REINFORCEMENT AT SCUPPER DIAPHRAGMS.

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY J.A. BARRAZA
DRAWN BY L.LEE
CHECKED W.C. Kalka
IN CHARGE E.J. MARTINS
APPROVED W.G. HORN

SLAB DETAILS
UNIT "C" RAMP N-3
SPANS 7-8 & 8-9
F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 96 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX105 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	724
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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

DWG NO. S-132

TYPICAL BAR INDICATION

25 x 10 #5 ETC REPRESENTS 25 LINES OF BARS WITH 10 LENGTHS PER LINE.

BAR a_4

BAR d_{11}

BAR d_{10}

BAR d_1

BAR d

BAR d_2

BAR a_1

BAR LIST

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	412	#6	26'-0"	—
a_1	204	#6	28'-9"	—
a_2	3	#6	7'-3"	—
a_3	1	#6	22'-0"	—
a_4	412	#6	4'-0"	⌒
b	640	#5	28'-7"	—
b_1	28	#6	33'-6"	—
b_2	28	#6	41'-6"	—
b_4	80	#5	27'-6"	—
b_7	6	#5	1'-0"	—
b_8	4	#8	34'-0"	—
b_{10}	4	#8	38'-0"	—
b_{11}	4	#8	38'-4"	—
b_{12}	4	#8	32'-3"	—
b_{13}	4	#8	31'-6"	—
b_{14}	4	#8	30'-9"	—
b_{15}	8	#8	13'-9"	—
b_{16}	8	#8	16'-9"	—
b_{17}	6	#5	21'-10"	—
b_{18}	6	#5	26'-3"	—
b_{19}	8	#5	16'-6"	—
b_{20}	8	#5	13'-6"	—
b_{21}	6	#5	25'-6"	—
b_{22}	6	#5	25'-10"	—
b_{23}	6	#5	20'-9"	—
b_{24}	6	#5	21'-2"	—
b_{170}	16	#5	5'	—
d	537	#4	3'-1"	⌐
d_1	180	#4	2'-3"	⌐
d_2	570	#5	3'-8"	—
d_3	570	#4	2'-0"	—
d_{10}	4	#6	10'-3"	⌐
d_{11}	3	#6	4'-0"	⌐
e	16	#4	13'-6"	—
e_1	16	#4	16'-8"	—
e_2	24	#4	14'-8"	—
e_3	16	#4	18'-8"	—
e_4	4	#4	19'-6"	—
e_5	28	#4	15'-2"	—
e_6	4	#4	16'-1"	—
e_7	12	#4	18'-1"	—
e_8	12	#4	14'-4"	—
x	49	#6	4'-3"	⌐

PLAN

SECTION C-C

SECTION B-B

CURB DETAIL

INTERIOR GIRDERS

AT MINIMUM FILLET

AT MAXIMUM FILLET

EXTERIOR GIRDERS

TYPICAL PARAPET PANEL

PANEL	NO. OF PANELS	NO. OF BARS IN EACH PANEL #5 d_2	#4 d_3	#4 e THRU e_8
A	4	15	15	$2e$ E.F.
B	4	18	18	$2e_1$ E.F.
C	6	16	16	$2e_2$ E.F.
D	4	20	20	$2e_3$ E.F.
E	1	21	21	$2e_4$ E.F.
F	7	17	17	$2e_5$ E.F.
G	1	17	17	$2e_6$ E.F.
H	3	19	19	$2e_7$ E.F.
K	3	16	16	$2e_8$ E.F.

NOTE: FOR HOLD DOWN ASSEMBLY SEE DWG. S-125.

NOTES:
ALL LONGITUDINAL DIMENSIONS GIVEN ALONG INSIDE FACE OF PARAPETS.
SEE RAILING SHEET FOR LIGHT STD. DETAILS
MINIMUM BAR LAP: 24 DIA.

SEE DWG. S-131 FOR DETAIL OF 1/8" ALUMINUM SHEET.

SEE DWG. S-131 FOR SECT. A-A

AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGE OF THE PR GIRDERS SHALL BE TAKEN AT THE POINTS SHOWN IN RESPECTIVE TABLE OF DECK ELEV'S. THESE ELEVATIONS, SUBTRACTED FROM THE TABULATED "THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION" IN SAME TABLE, MINUS SLAB THICKNESS EQUALS THE FILLET HEIGHTS ABOVE THE TOP FLANGE OF PR GIRDERS.

METHOD OF DETERMINING FILLET HEIGHT "t"

HATCHED AREA TO BE POURED AFTER SUPERSTRUCTURE FORMS HAVE BEEN REMOVED. QUANTITY OF CLASS "X" CONCRETE INCLUDED WITH SUPERSTRUCTURE.

SEE DWG S-169 FOR TRANSVERSE ARMORED SLAB JOINT DETAIL.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	62
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD	764
CLASS X CONCRETE	CU. YD	2604
REINFORCING BARS	POUND	61,050
ALUMINUM RAILING	LIN. FT.	534
PROTECTIVE COAT	SQ. YD.	210

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

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

SLAB DETAILS
UNIT "C", RAMP N-3
SPANS 9-10, 10-11, 11-E
F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 97 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SX106 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	725
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1HVB)	ROCK ISLAND	1504	726
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-133

NOTE "A"
ORDER ALL BARS FULL LENGTH CUT IN FIELD TO FIT SKEW FOR TOP OF SLAB. USE REMAINDER OF BARS AS BOTTOM REINFD CEMENT IN SAME PANEL.

197 - #4 d3 @ 1'-0 MAX (OUTSIDE FACE OF PARAPET)
197 - #5 d2 @ 1'-0 MAX (INSIDE FACE OF PARAPET)
150 - #6 a04 TOP SLAB LAP WITH a162
197 - #4 d @ 1'-0" MAX (OUTSIDE FACE)
40 - #4 d1 (2 @ EACH RAILING POST)
4'-3 1/2" RAIL POST SPACINGS
16 SPACES @ 9'-0" = 144'-0"
2 SPACES @ 8'-6" = 34'-0"
186 - 4 3/4" (END TO END OF SLAB)
PARAPET JT SPACINGS
E PIER 11 STA 361+69.11
STA 361+62.03
STA 363+54.05
5 SPACES @ 16'-0 5/8" = 80'-3 3/8" PANEL (C) (D) 16'-3 (E) 16'-3
13'-6 3/4"
3 SPACES @ 16'-2" = 48'-6" PANEL (F)
68'-6 7/8"
16'-0 5/8" (G)
2-#8 b260 TOP CURB
2-#5 D259 BOT CLEB
6 LIGHT STD. SEE DET (A)
3x8-#5 b4 TOP SLAB
2x3-#8 b263 TOP CURB
2-#8 b262 TOP CURB
2x3-#8 b141 BOT CURB
PCC STA 362+82.76
2x3-#8 b264 TOP CURB
2x3-#5 b256 BOT CURB
2-#5 D261 BOT CURB
2-#8 b266 TOP CURB
2-#5 b265 BOT CURB
2x3-#8 b268 TOP CURB
2x3-#5 D267 BOT CURB
29-#6 b254 @ 1'-0" TOP ALT WITH #5 b4
29-#6 b255 @ 1'-0" TOP ALT WITH #5 b4
150-#6 a87 @ 1'-4 MAX CTS (TOP & BOT) ALTERNATE WITH
150-#6 a162 @ 1'-4 MAX CTS - ALL BARS FANNED
24-#5 b58 @ 1'-0" TOP SPACED AS SHOWN IN SECTION B-B
27-#7 b258 BOT SPACED AS SHOWN IN SECTION B-B
51-#5 b4 @ 6" TOP
26'-6 1/2"
R = 260'-4"
16-#6 a87 @ 8 (SEE NOTE 3)
226-#5 d2 @ 1'-0" MAX (INSIDE FACE OF PARAPET)
228-#4 d3 @ 1'-0" MAX (OUTSIDE FACE OF PARAPET)
CONSTR. JTS IN CURB TO TOP SLAB (INSERT 'B' ALUMINUM SHEETS)
5 SPACES @ 18'-8" = 93'-3 1/2" PANEL (H)
4 SPACES @ 18'-4 3/4" = 73'-6 3/4" PANEL (H)
158-#6 a04 TOP SLAB LAP WITH a162 & EVERY OTHER a87 @ SKEW END
118'-11 1/8"
77'-4 1/4"
211'-0 3/8" (END TO END OF SLAB)
22 SPACES @ 9'-4" = 205'-4" (RAIL POST SPACING)
228-#5 d @ 1'-0" MAX (OUTSIDE FACE)
46-#4 d1 (2 @ EACH RAILING POST)
BEND D259 & D260 IN FIELD
2-#8 b260 TOP CURB
2-#5 D259 BOT CURB
DETAIL B
SCALE 3/8" = 1'-0"
137-#4 d3 @ 1'-0 MAX OUTSIDE FACE OF PARAPET
137-#5 d2 @ 1'-0 MAX (INSIDE FACE OF PARAPET)
104-#6 a04 TOP SLAB LAP WITH a162
137-#4 d @ 1'-0" MAX (OUTSIDE FACE)
28-#4 d1 (2 @ EACH RAILING POST)
13 SPACES @ 9'-4" = 121'-4" (RAIL POST SPACING)
127'-6 5/8" (END TO END OF SLAB)
5 SPACES @ 16'-3 1/4" = 81'-4 3/8" PANEL (F)
97'-8 3/8"
CONSTR. JTS IN CURB TO TOP SLAB (INSERT 'B' ALUMINUM SHEETS)
2-#8 b270 TOP CURB
2-#8 b123 TOP CURB
2-#5 b139 BOT CURB
2x3-#8 b79 BOT CURB
3x5-#5 b79 TOP SLAB
2x3-#8 b46 TOP CURB
2-#8 b273 TOP (EACH CURB)
29-#6 b256 @ 12 TOP ALT WITH #5 b58
27-#4 b60 BOT SPACED AS SHOWN IN SECTION B-B
24-#5 b58 @ 1'-0 TOP SPACED AS SHOWN IN SECTION B-B
C4-#6 b38 @ 1'-4 MAX CTS TOP & BOT ALT WITH
03-#6 b62 @ 1'-4 MAX CTS - ALL BARS FANNED
2-#8 b44 TOP
2-#5 b53 BOT
2-#5 b271 TOP SLAB (EACH CURB)
2x3-#8 b272 TOP CURB
2x3-#5 b69 BOT CURB
2-#5 b272 TOP (EACH CURB)
2-#8 b44 TOP CURB
2-#5 b53 BOT C.RB
CONSTR. JTS IN CURB TO TOP SLAB (INSERT 'B' ALUMINUM SHEETS)
5 SPACES @ 18'-0 2" = 90'-2 3/8" PANEL (G)
PARAPET JT SPACINGS
137-#8 b6" (END TO END OF SLAB)
12 SPACES @ 9'-4" = 112'-0" (RAIL POST SPACING)
149-#4 d2 @ 1'-0" MAX (INSIDE FACE OF PARAPET)
149-#4 d3 @ 1'-0 MAX (OUTSIDE FACE OF PARAPET)
149-#4 d @ 1'-0" MAX (OUTSIDE FACE)
30-#4 d1 (2 @ EACH RAILING POST)
PLAN
SCALE 3/32" = 1'-0"

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

N

3'-7" 8
3-2 X
2'-0"
BAR d

8 1/2"
9 1/4"
BAR d1

BAR d2

VARIES 3 MAX | #4 d3 @ 1'-0 MAX | VARIES 3 (MAX)
#4 en BARS
INSIDE FACE OF PARAPET
#5 d2 @ 1'-0" MAX.
TYP PARAPET PANEL

2'-3"
1'-6"
2'-0" 2'-0"
BAR d10

PANEL	NO. OF PANELS	NO OF BARS IN EACH PANEL			
		#5 d2	#4 d3	#4 en BARS	
A	2	7	7	2-e 14	E.F.
B	2	8	8	2-e 38	E.F.
C	2	8	8	2-e 77	E.F.
D	4	9	9	2-e 78	E.F.
E	4	10	10	2-e 79	E.F.
F	15	17	17	2-e 50	E.F.
G	6	19	19	2-e 20	E.F.
H	11	20	20	2-e 64	E.F.

BAR a4

1'-6" 2'-6"
7'-8 1/2"
4'-3 1/4"

NOTES
ALL HORIZONTAL DIMENSIONS ARE AT 50° F.
FOR RAIL POST DETAILS, SEE DWG. NO. S-172.
FOR LIGHT STANDARD ANCHORAGE DETAILS, SEE RAILING SHEET.
FOR SCUPPER LOCATION, SEE GENERAL PLAN, DWG. NO. S-3.
FOR SCUPPER DETAILS, SEE DWG. NO. D-1.
THERE ARE 8 - #5 b170 BARS AT EACH SCUPPER DIAPHRAGM.
FOR EXPANSION JOINT DETAILS, SEE DWG. NO. S-165.
FOR METHOD OF DETERMINING FILLET HEIGHTS, SEE DWG. NO. S-132.
FOR PARAPET JOINT DETAIL, SEE RAILING SHEET.

REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
a4	516	6	44-9	
a87	524	6	26-9	
a162	253	6	27-7	
b4	240	5	27-6	
b44	4	5	5-9	
b46	6	5	28-4	
b49	6	5	25-4	
b53	6	5	5-9	
b56	6	5	23-1	
b58	150	5	28-6	
b69	6	5	30-10	
b74	108	5	35-6	
b76	6	5	25-1	
b79	6	5	27-10	
b123	4	8	6-3	
b139	4	5	6-3	
b141	6	5	22-3	
b170	32	5	2-6	
b214	29	6	12-3	
b255	29	6	44-9	
b256	29	6	22-4	
b257	29	6	23-9	
b259	189	6	31-5	
b259	4	5	6-9	
b260	4	8	6-9	
b261	6	8	15-10	
b262	6	8	15-10	
b263	6	8	22-8	
b264	6	8	23-7	
b265	6	8	18-4	
b266	6	8	18-4	
b267	6	5	25-3	
b268	6	8	25-6	
b269	8	5	7-10	
b270	8	8	7-11	
b271	8	5	8-6	
b272	8	8	8-6	
b273	8	8	31-4	
D	731	4	3-7	
D1	349	4	2-3	
D2	729	4	3-2	
D3	731	4	2-10	
D10	8	6	9-3	
D11	8	6	5-0	
D23	2	4	2-11	
E14	8	4	5-9	
E20	24	4	17-5	
E39	8	4	6-5	
E50	60	4	15-4	
E64	44	4	16-8	
E77	8	4	6-5	
E78	16	4	8-11	
E79	16	4	8-11	
S	304	6	4-1	

26'-7"
3'-6" 5" 3'-9" 5" 2'-11" 5" 3'-9" 5" 2'-11" 5" 3'-9" 5" 3'-6"
BAR a162

d11 2'-0"
d23 6"
BAR d11 & d23

TABLE OF CROSS-SLOPES

SLOPE ③	SLOPE ②
-0.836 @ 361+55.6 -0.85 @ 361+75 00 HIGHER STATION UNIFORM TRANSITION BETWEEN THESE LIMITS	-0.836 @ 361+75 00 LOWER STATION -0.85 @ 361+75 00 HIGHER STATION UNIFORM TRANSITION BETWEEN THESE LIMITS

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
BITUMINOUS CONC SURFACE COURSE, CLASS I	TON	79
COAL TAR INTER LAYER PROTECTIVE COAT	SQ. YD.	929
CLASS X CONCRETE	CU. YD.	343.9
REINFORCEMENT BARS	POUND	78,959
ALUMINUM RAILING	LIN. FT.	661
PROTECTIVE COAT	SQ. YD.	260

DECK SLAB - UNIT "D"
RAMP 3-N

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT

ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

SECTION B-B
SCALE 1/4"=1'-0"
NEAR PIER NEAR MIDSPAN
3 SPACES @ 7'-6" = 22'-6"
3'-0" 5'-4" OR 5'-6" 4" MIN. 4" 8" SLAB
SLOPE ③ SLOPE ② SLOPE VARIES SEE TABLE
d162 d255 b256 OR b257
d87 2"CL
b4 OR b58
b74 OR b258
G 96.60 G 95.99 G 94.58 G 93.97

SEE CURB DETAIL

RAMP 3-N
1'-0" 4'-6" 6'-0" ROADWAY 6'-0" 1'-0"
OPTIONAL LONGIT. CONSTRUCTION JOINT (DO NOT EDGE)

BONDED CONST JOINT (OPTIONAL)
BONDED CONST JT (MANDATORY)
#5 d2 @ 1'-0"
#4 d1 3 BARS @ EACH RAILING POST
4-#4 en
12" CL.
#5 b3's
#4 d3 @ 12" MAX
#5 b4 OR #5 b58
#6 b5 OVER PIER
#6 b5s
#4 d4 @ 1'-0" (MAX)
#6 b256 OR #6 b74
#4 e2
2'CL
1CL
3'-3 1/4"
5 1/2" CURB
10 1/2" CURB
3'-0"
CURB DETAIL
SCALE 3/4"=1'-0"

9" 1'-0" 3/4" BEVEL (TYP)
1'-1 1/2"
3 1/2"
1'-9"
DETAIL OF 'B' ALUMINUM SHEET
SCALE 3/4"=1'-0"

1'-9"
2'CL
1CL
3'-6" d11
4 #5 d3
DETAIL (A)
SCALE 3/8"=1'-0"
SEE PLAN FOR REINF

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: '98 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX107 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	726
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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

DWG. NO. S-134

TYPICAL BAR INDICATION:
32 -#5 ETC. REPRESENTS 32 LINES OF BARS WITH 4 LENGTHS PER LINE.

NOTE 'A'
CONST. JOINTS IN CURB TO TOP OF SLAB PROVIDE 8" ALUMINUM SHEET. FOR DETAIL SEE DWG S-133.

BAR X

BAR d_1

BAR d_{11}

BAR d

BAR d_2

BAR d_{10}

PLAN
3/32" = 1'-0"

DETAIL (A)
SCALE: 3/4" = 1'-0"

TABLE OF CROSS SLOPES

STATION TO STATION		SLOPE
364+88	365+58	0.05" ↓
365+58	366+08	TRANSITION
366+08	366+54.78	0.022" ↓

REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A6	334	6	4- 3	
A66	3	6	7- 5	
A56	350	6	25- 9	
A57	3	6	25- 0	
A132	334	6	24- 0	
B7	5	5	1- 2	
B10	4	5	34- 8	
B21	6	5	25-	
B57	6	5	23-8½	
B77	6	5	34- 4	
B87	6	5	23- 1	
B106	276	5	23- 3	
B116	4	8	35- 6	
B117	166	5	23- 0	
B153	5	5	24- 8	
B155	8	5	22- 6	
B156	8	5	15- 4	
*B170	8	5	2- 6	
B234	226	5	22- 7	
B235	30	4	40- 6	
B236	8	4	36- 9	
D	368	4	3- 7	
D1	74	4	2- 3	
D2	364	5	2- 8	
D3	364	6	2- 8	
D10	4	6	9- 3	
D11	3	6	4- 0	
E7	16	4	18- 1	
E16	8	4	16- 5	
E17	20	4	15- 6	
E18	16	4	16-10	
E26	20	4	17- 6	
X	24	6	4- 3	

* SHOWN ON DRAWING NO. S-1180A.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	187.2
REINFORCING BARS	POUND	53,260
ALUMINUM RAILING	LIN. FT.	346
PROTECTIVE COAT	SQ. YD.	136
BITUMINOUS CONC. SURFACE COURSE CLASS I	TON	38
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	474

TYPICAL PARAPET PANEL

PANEL	NO. OF PANELS	NO. OF BARS IN EACH PANEL #5 d_2	#4 d_3	#4 e_n
A	4	19	19	2-e_7 E.F.
B	5	17	17	2-e_{17} E.F.
C	4	19	19	2-e_{26} E.F.
D	4	18	18	2-e_{18} E.F.
E	2	18	18	2-e_{19} E.F.
Q	1	19	19	2-e_{26} E.F.

NOTES:
ALL LONGITUDINAL DIMENSIONS ARE GIVEN ALONG INSIDE FACE OF PARAPETS.
ALL HORIZONTAL DIMENSIONS ARE AT 50° F.
FOR RAILPOST, PARAPET JOINT AND LIGHT STANDARD ANCHORAGE DETAILS, SEE DRAWING NO. S-172.
FOR SCUPPER AND LIGHT STANDARD LOCATIONS, SEE GENERAL PLAN, DRAWING NO. S-3. FOR SCUPPER DETAILS, SEE DRAWING NO. D-1.
FOR SLAB REINFORCEMENT AT SCUPPERS, SEE DRAWING NO. S-1180-A.
FOR DETAIL OF 1.8" ALUMINUM SHEET, SEE DRAWING NO. S-133.
FOR METHOD OF DETERMINING FILLET HEIGHTS, SEE DRAWING NO. S-132.
MINIMUM BAR LAP = 24 DIAMETER.
BAR MARKS INDICATED IN LOWER CASE ON DRAWINGS AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.

HATCHED AREA TO BE POURED AFTER SUPERSTRUCTURE FORMS HAVE BEEN REMOVED. QUANTITY OF CLASS 'X' CONCRETE INCLUDED WITH SUPERSTRUCTURE

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY J.A. BARRAZA
DRAWN BY L. LEE
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

DECK SLAB - UNIT "E"
RAMP 3-N

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 99 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX108 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	727
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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

DWG. NO S-136

PLAN
SCALES LONGIT 1/8"=1'-0" TRANSV 1/8"=1'-0"

SECTION E-E
SCALE 1/2"=1'-0"

PLAN - DIVIDER WALL SCALE 1/2"=1'-0"

PLAN
SCALES LONGIT 1/8"=1'-0" TRANSV 1/8"=1'-0"

*-THO BARS BTWN EACH PAIR OF GIRDERS (BOT.)
**-SEE PLAN AT VARIABLE PARAPET, DWG S-139

NOTE:
FOR CROSS-SECTIONS A-A, B-B, C-C & D-D, SEE DWG S-137
FOR REINFORCEMENT IN PARAPETS, SEE DWG S-139
FOR REINFORCEMENT AT SCUPPER DIAPHRAGMS, SEE DWG. S-140A.

DECK SLAB - UNIT "C"
MAINLINE - NORTH BOUND
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 KENNEDY
DRAWN BY G P ALLEMAN
CHECKED
IN CHARGE E P MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8010178-A0321-002-Contract AB Demo_Rasters.brg
MODEL: 100 Contract AB

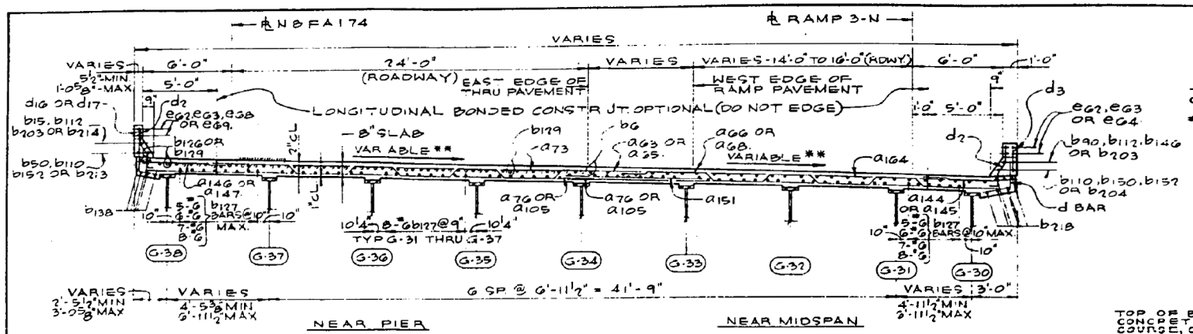
USER NAME = ksnider	DESIGNED - AWH	REVISED -
	CHECKED - AJK	REVISED -
PLOT SCALE =	DRAWN - KMS	REVISED -
PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX109 OF SX150 SHEETS

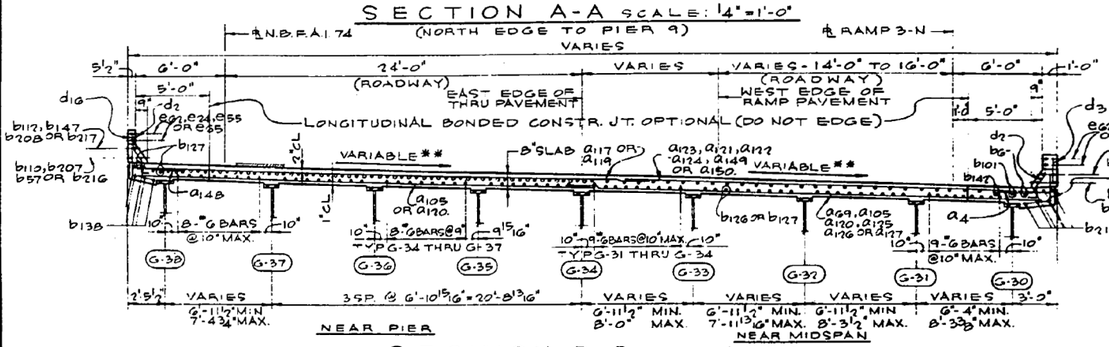
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	728
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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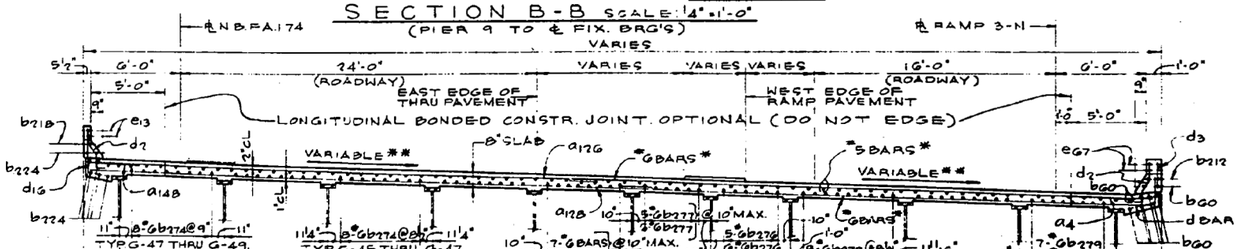
SECTION A-A SCALE: 1/4"=1'-0"

(NORTH EDGE TO PIER 9)



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

(PIER 9 TO ℄ FIX. BRG'S)

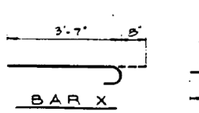


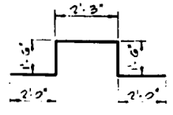
SECTION C-C SCALE: 1/4"=1'-0"

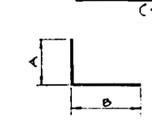
(℄ FIX BRG'S TO ℄ EXP BRG'S)

* - FOR "S OR "G BAR MARKS, SEE SLAB PLAN - DWG. S-139

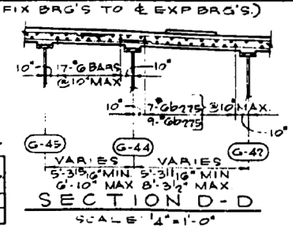
** - FOR CROSS-SLOPE INFORMATION, SEE DWG S-139

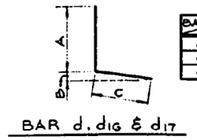




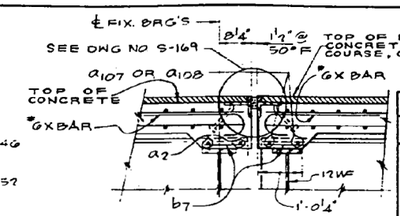


BAR DIM.	A	B
d11	2'-0"	2'-0"
d18	2'-9"	6"
d19	2'-11"	6"



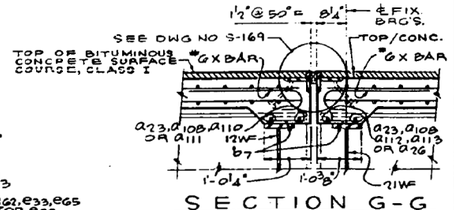


BAR DIM	A	B	C
d BAR	1'-7"	2"	2'-0"
d16	2'-11"	3"	1'-7"
d17	1'-7"	3 1/4"	1'-9"



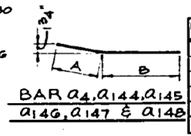
SECTION F-F

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



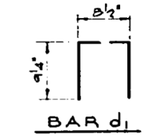
SECTION G-G

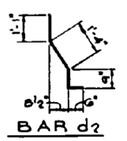
SCALE: 3/4" = 1'-0"



BAR DIM.	A	B
a4	1'-6"	2'-6"
a144	1'-6"	4'-6"
a145	1'-6"	5'-6"
a146	1'-4"	5'-0"
a147	1'-0"	5'-6"
a148	1'-0"	2'-6"

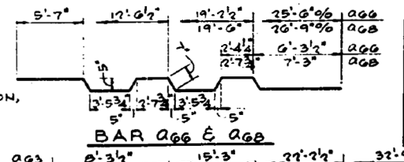
BAR a4, a144, a145 a146, a147 & a148

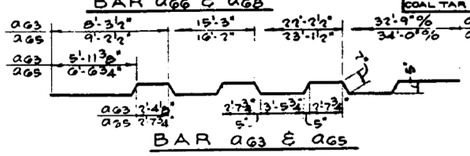




NOTES:

ALL HORIZONTAL DIMENSIONS ARE AT 50°F.
FOR RAIL POST DETAILS, SEE DWG. NO. S-172.
FOR LIGHT STD. ANCHORAGE DETAILS, SEE RAILING SHEET.
FOR SCUPPER LOCATION, SEE GENERAL PLAN, DWG. NO. S-2. FOR SCUPPER DETAILS, SEE DWG. NO. D-1.
FOR SLAB REINFORCEMENT AT SCUPPERS, SEE DWG. NO. S-140A.
FOR EXPANSION JOINT DETAILS, SEE DWG. NO. S-169.
FOR METHOD OF DETERMINING FILLET HEIGHTS, SEE DWG. NOS. S-137.
FOR PARAPET JOINT DETAIL, SEE RAILING SHEET.





BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	554.9
REINFORCEMENT BARS	POUND	179,740
ALUMINUM RAILING	LIN. FT.	327
PROTECTIVE COAT	SQ. YD.	230
BIT. CONC. SURF. COURSE - CLASS I	TON	168
COAL TAR INTERLAYER PROT. COAT	SQ. Y D.	3,050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	43	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-137

REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A4	178	6	4- 0	--	B127	503	6	30- 6	--
A23	4	6	7- 0	--	B129	60	6	37- 0	--
A26	2	6	6- 0	--	B131	6	5	25- 2	--
A63	43	6	33-11	~~~	B135	6	8	25- 8	--
A65	43	6	35- 2	~~~	B138	34	5	28- 5	--
A66	71	6	26- 4	~~~	B142	63	5	22- 0	--
A68	15	6	27- 7	~~~	B146	2	8	13- 1	--
A69	58	6	32- 3	--	B147	2	8	35- 0	--
A73	101	6	29- 0	--	B150	2	5	13- 1	--
A76	146	6	29- 3	--	B152	4	5	8- 9	--
A93	15	6	40- 0	--	B170	21	5	2- 6	--
A95	16	6	38- 0	--	B178	1	5	10- 0	--
A96	15	6	42- 0	--	B203	4	8	8- 9	--
A97	2	6	5- 3	--	B206	6	5	25- 5	--
A105	249	6	30- 6	--	B207	2	5	11- 9	--
A107	2	6	4- 2	--	B208	1	5	11- 9	--
A108	16	6	6- 8	--	B209	2	5	15- 8	--
A110	4	6	7-10	--	B210	2	8	15- 8	--
A111	4	6	8- 3	--	B212	6	8	30- 3	--
A112	4	6	5- 2	--	B213	6	5	24-10	--
A113	4	6	7- 8	--	B214	5	8	25- 4	--
A117	20	6	34- 0	--	B216	2	5	15- 4	--
A119	60	6	34- 9	--	B217	6	8	15- 4	--
A120	145	6	31- 0	--	B218	51	5	28-11	--
A121	83	6	27- 9	--	B219	1	5	8- 0	--
A122	50	6	28- 6	--	B220	1	5	12- 0	--
A123	20	6	30- 0	--	B221	1	5	16- 0	--
A124	143	6	31- 3	--	B222	1	5	20- 0	--
A125	178	6	33- 9	--	B224	213	5	28- 8	--
A126	20	6	35- 0	--	B226	6	5	5- 8	--
A127	37	6	36- 3	--	B274	118	6	28- 8	--
A128	142	6	38- 6	--	B275	16	6	21- 6	--
A129	17	6	32- 9	--	B276	13	6	23- 9	--
A130	17	6	33-11	--	B277	11	6	23- 0	--
A131	17	6	35- 3	--	B278	54	5	29- 6	--
A133	17	6	37- 3	--	B279	22	6	29-10	--
A134	17	6	38- 3	--	B280	2	8	11- 8	--
A135	18	6	39- 9	--	B281	2	5	5- 0	--
A136	15	6	37- 0	--	B282	2	5	6- 0	--
A137	15	6	38- 0	--	B283	2	5	7- 0	--
A138	15	6	39- 0	--	0	90	4	2- 7	--
A139	15	6	41- 0	--	01	74	4	3- 3	--
A140	21	6	43- 0	--	02	640	5	3- 8	--
A144	127	6	6- 0	--	03	406	4	2- 0	--
A145	80	6	7- 0	--	010	6	6	9- 3	--
A146	80	6	6- 4	--	011	3	6	4- 0	--
A147	108	6	6- 6	--	016	220	5	4- 6	--
A148	219	6	3- 6	--	017	82	4	3- 4	--
A149	20	6	32- 6	--	018	6	5	3- 5	--
A150	20	6	27- 0	--	019	6	4	3- 5	--
A151	86	6	9- 0	--	E13	10	4	16- 3	--
A165	101	6	22- 6	--	E24	8	4	18- 7	--
B6	411	5	30- 0	--	E33	16	4	19- 0	--
B7	50	5	1- 0	--	E35	2	4	15- 4	--
B15	2	8	13- 9	--	E62	16	4	13- 2	--
B50	2	5	13- 9	--	E63	8	4	8- 9	--
B57	6	5	23-10	--	E64	16	4	18- 2	--
B60	18	5	29-10	--	E65	6	4	11- 9	--
B90	6	8	25-11	--	E66	4	4	15- 8	--
B101	1	5	7-11	--	E67	20	4	17- 1	--
B108	2	5	24- 0	--	E68	4	4	13- 9	--
B110	8	5	13- 3	--	E69	16	4	17- 9	--
B112	6	8	13- 3	--	X	502	6	4- 3	J
B126	123	6	22- 9	--					

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

DECK SLAB - UNIT "C", N.B. SECTIONS AND DETAILS
F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 285 + 20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

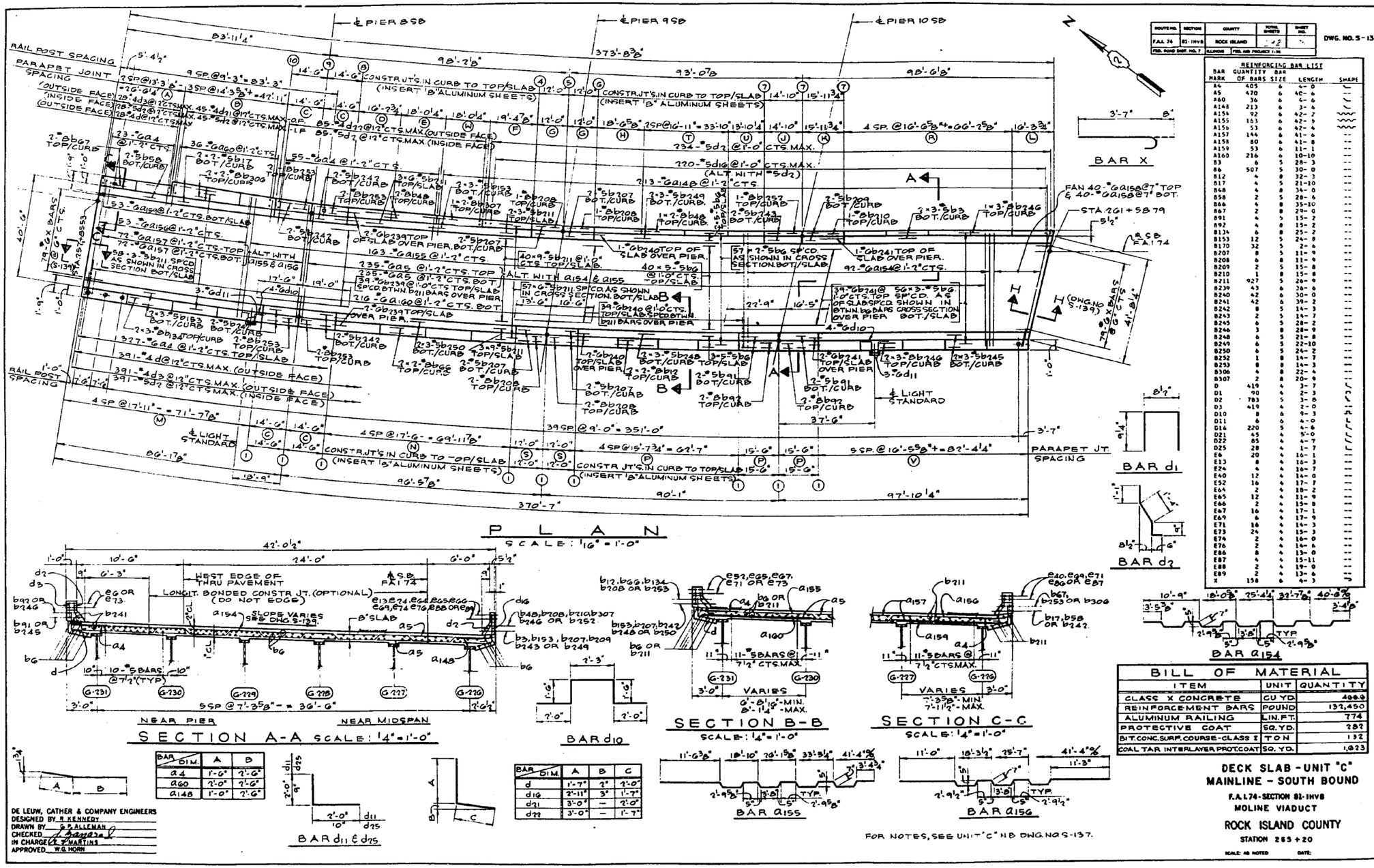
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		CHECKED - AJK	REVISED -
MODEL: 101 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX110 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	729
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1 HVB)	ROCK ISLAND	13	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO.		

DWG. NO. S-138

REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A4	605	6	4'-0	
A5	470	6	40'-6	
A60	36	6	4'-6	
A148	213	6	3'-6	
A154	92	6	42'-7	
A155	161	6	42'-9	
A156	53	6	42'-4	
A157	144	6	41'-6	
A158	80	6	41'-8	
A159	53	6	11'-1	
A160	216	6	10'-10	
B3	6	5	28'-3	
B6	507	5	30'-0	
B12	4	8	32'-3	
B17	4	5	31'-10	
B48	8	8	34'-0	
B58	2	5	28'-6	
B66	4	8	35'-10	
B67	4	8	29'-6	
B91	4	5	15'-7	
B92	4	8	15'-2	
B135	6	8	25'-7	
B153	12	5	24'-9	
B170	32	5	2'-6	
B207	8	5	11'-9	
B208	6	8	11'-4	
B209	2	8	15'-5	
B210	1	8	15'-8	
B211	927	5	28'-9	
B239	43	6	38'-6	
B240	42	6	30'-0	
B241	42	6	39'-2	
B242	8	5	14'-3	
B243	5	5	14'-7	
B245	6	5	28'-2	
B246	3	8	28'-9	
B248	6	5	21'-10	
B249	6	5	22'-10	
B250	6	5	24'-2	
B252	1	8	14'-7	
B253	1	8	14'-3	
B308	4	8	22'-1	
B307	2	8	20'-9	
D	419	4	3'-7	
D1	90	4	2'-0	
D2	783	5	3'-6	
D3	419	4	2'-0	
D10	8	6	9'-3	
D11	6	6	4'-0	
D16	220	5	4'-6	
D21	45	4	5'-7	
D22	85	4	4'-7	
D25	28	4	4'-7	
E6	20	4	16'-1	
E23	8	4	16'-3	
E24	4	4	16'-7	
E40	12	4	14'-0	
E52	16	4	17'-7	
E64	2	4	18'-2	
E65	12	4	11'-9	
E66	2	4	15'-8	
E67	16	4	17'-1	
E69	6	4	12'-9	
E71	18	4	14'-3	
E73	24	4	15'-3	
E74	2	4	16'-0	
E76	2	4	14'-6	
E86	8	4	13'-0	
E87	4	4	15'-11	
E88	2	4	19'-0	
E89	2	4	13'-6	
X	158	6	4'-3	

BAR DIM.	A	B
a4	1'-0"	2'-0"
a60	2'-0"	2'-6"
a148	1'-0"	2'-6"

BAR DIM.	A	B	C
d	1'-7"	2"	2'-0"
d16	3'-11"	3"	1'-7"
d21	3'-0"	—	2'-0"
d22	3'-0"	—	1'-7"

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU YD	488.8
REINFORCEMENT BARS	POUND	132,450
ALUMINUM RAILING	LIN. FT.	774
PROTECTIVE COAT	SQ. YD.	282
BIT. CONC. SURF. COURSE-CLASS I	TON	132
COAL TAR INTERLAYER PROTCOAT	SQ. YD.	1,023

DECK SLAB - UNIT "C"
MAINLINE - SOUTH BOUND
F.A.I. 74 - SECTION 81-1 HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 255+20
SCALE AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY R. KENNEDY
DRAWN BY G. P. ALLEMAN
CHECKED A. Zaggara
IN CHARGE R. F. MARTINS
APPROVED W. G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 102 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

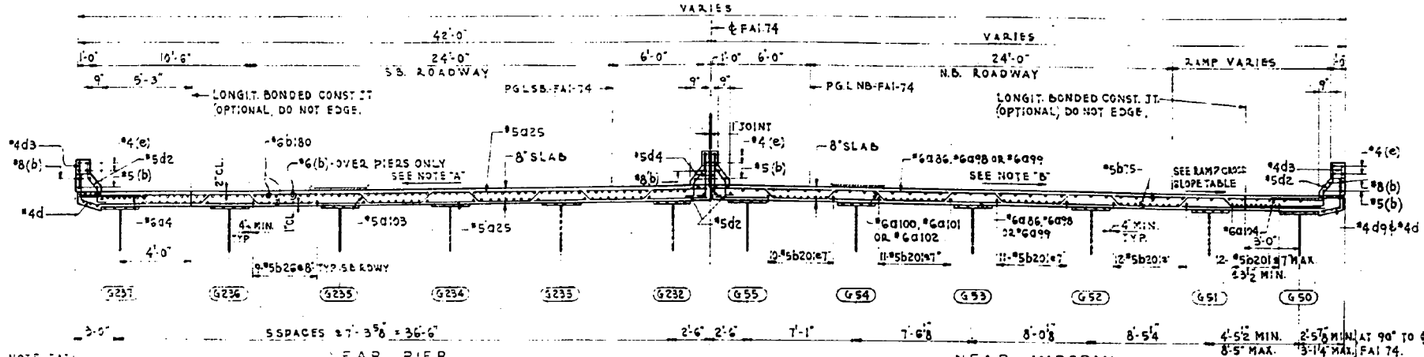
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX111 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	730
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1WB	ROCK ISLAND	2-48	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT - 74		

DWG. NO. S-142



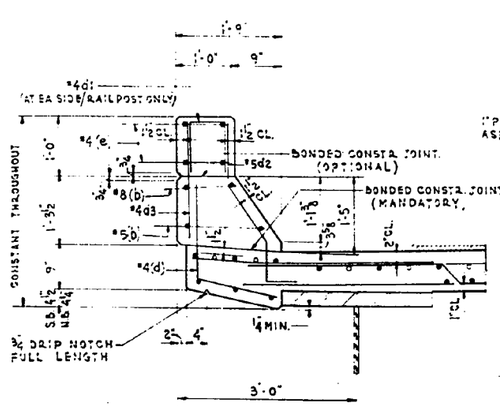
NEAR PIER — NEAR MIDSPAN

CROSS SECTION (LOOKING NORTH)

SCALE 1/4"=1'-0"

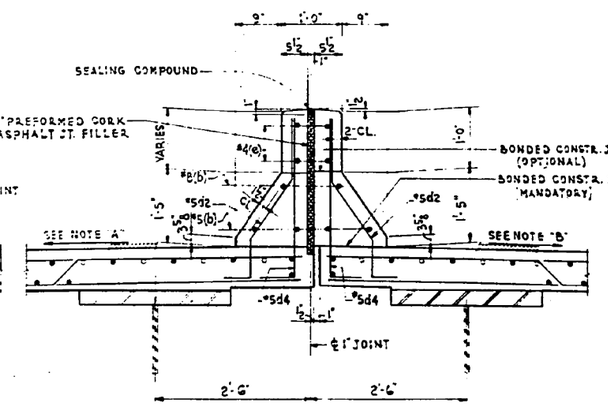
NOTE "A":
S.B. CROSS SLOPE VARIES UNIFORMLY FROM 0.0 AT STA. 261+33 TO 0.0083 AT STA. 261+75.

NOTE "B":
N.B. CROSS SLOPE VARIES UNIFORMLY FROM 0.033 AT STA. 259+00 TO 0.0083 AT STA. 263+00.



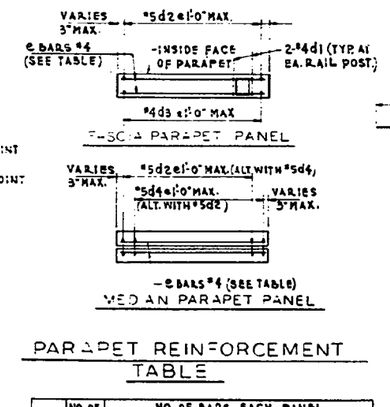
FASCIA CURB SECTION

SCALE: 1"=1'-0"



MEDIAN CURB SECTION

SCALE: 1"=1'-0"



PARAPET REINFORCEMENT TABLE

PANEL	NO OF PANELS	NO. OF BARS EACH PANEL. VERTICAL BARS		HORIZ. BARS
A	3	8-#5d2	8-#4d3	4-#4e59
B	3	21-#5d2	21-#4d3	4-#4e4
C	2	12-#5d2	12-#4d3	4-#4e60
D	5	13-#5d2	13-#4d3	4-#4e61
E	3	19-#5d2	19-#4d3	4-#4e7
F	1	11-#5d2	11-#4d3	4-#4e29
G	4	18-#5d2	18-#4d3	4-#4e44
H	4	17-#5d2	17-#4d3	4-#4e17
J	2	14-#5d2	14-#5d4	4-#4e59
K	4	32-#5d2	30-#5d4	4-#4e50
L	1	24-#5d2	22-#5d4	4-#4e60
M	2	24-#5d2	24-#5d4	4-#4e61
N	4	30-#5d2	30-#5d4	4-#4e2
P	1	22-#5d2	20-#5d4	4-#4e29
Q	1	2-#5d4&6-#5d2	8-#4d3	4-#4e59

REINFORCEMENT AT SCUPPER

PIER 11NB	PIER 8SB	PIER 12NB	PIER 12SB	PIER 13NB	PIER 13SB
6-#5b170	8-#5b170	7-#5b170	8-#5b170	4-#5b170	8-#5b170

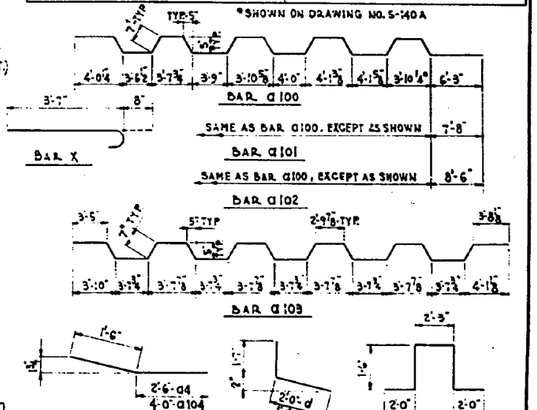
REINFORCING BAR LIST

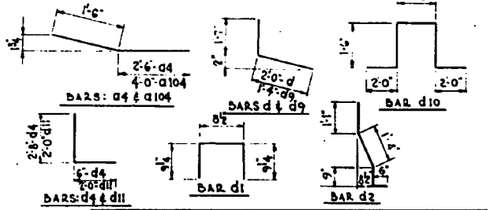
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A4	212	6	4'-0	—
A25	286	5	40'-6	---
A86	76	6	42'-8	---
A98	236	6	41'-3	---
A99	40	6	43'-6	---
A100	83	6	42'-9	---
A101	38	6	44'-2	---
A102	20	6	45'-0	---
A103	188	5	42'-6	---
A104	360	6	5'-6	---
B3	4	5	28'-3	---
B13	4	8	31'-6	---
B66	4	8	35'-10	---
B69	8	5	30'-10	---
B71	4	5	35'-9	---
B75	624	5	31'-3	---
B140	4	8	33'-0	---
B154	16	5	6'-3	---
* B170	46	5	2'-8	---
B180	558	5	33'-6	---
B181	43	6	13'-2	---
B182	43	6	27'-8	---
B183	43	6	23'-3	---
B184	43	6	12'-8	---
B185	43	6	31'-8	---
B186	43	6	24'-7	---
B187	11	8	6'-3	---
B189	2	8	39'-6	---
B190	2	5	39'-6	---
B191	2	5	19'-8	---

REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
B192	2	8	19'-8	---
B193	6	8	10'-11	---
B194	8	5	10'-11	---
B195	18	5	11'-6	---
B196	14	8	11'-6	---
B198	6	5	10'-0	---
B199	4	8	10'-0	---
B200	4	8	33'-6	---
B201	8	5	33'-0	---
B202	8	5	32'-5	---
B246	4	8	28'-9	---
D	264	4	3'-7	---
D1	80	4	2'-3	---
D2	760	5	3'-4	---
D3	392	4	2'-0	---
D4	360	5	3'-7	---
D9	85	4	2'-11	---
D10	4	4	4'-1	---
D11	3	8	4'-0	---
E2	14	4	14'-4	---
E4	12	4	19'-4	---
E7	12	4	18'-1	---
E32	16	4	15'-6	---
E29	8	4	9'-11	---
E44	16	4	17'-0	---
E50	16	4	15'-9	---
E59	24	4	6'-3	---
E60	12	4	10'-11	---
E61	28	4	11'-6	---
X	322	8	4'-3	---

* SHOWN ON DRAWING NO. S-140A





BILL OF MATERIAL

ITEM	UNIT	TOTAL
CLASS "A" CONCRETE	CU. YD.	987.6
REINFORCING BARS	POUND	117 654
ALUMINUM RAILING	LIN. FT.	368
PROTECTIVE COAT	SQ. YD.	270
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	138
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	1,627

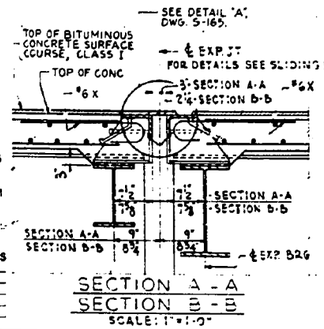
RAMP CROSS SLOPE TABLE

STATION	CROSS SLOPE
261+70.2	0.0355
262+00	0.0350
262+50	0.0325
263+00	0.0293
263+50	0.0218

*RAMP CROSS SLOPE VARIES UNIFORMLY BETWEEN STATIONS GIVEN IN TABLE

CROSS SLOPE GIVEN IS FROM EAST EDGE OF N.B. ROADWAY TO CURB.

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY K. J. ROW
DRAWN BY A. BUROKAS
CHECKED K. J. Row
IN CHARGE R. S. MARTINS
APPROVED W. G. HORN



SECTION A - A
SECTION B - B

SCALE: 1"=1'-0"

NOTES:
FOR DETAIL OF ⅛" ALUMINUM SHEETS SEE DWG S-139
FOR METHOD OF DETERMINING FILLET HEIGHTS SEE DWG S-132
FOR PARAPET JOINT DETAIL SEE DWG S-172
FOR RAIL POST DETAILS SEE DWG. S-172
FOR LIGHT STANDARD ANCHORAGE DETAILS SEE DWG S-172
FOR SCUPPER LOCATION SEE GENERAL PLAN DWG. S-3
FOR SCUPPER DETAILS SEE DWG. D-1 & S-140A
FOR SLAB REINFORCEMENT AT SCUPPERS SEE TABLE.
FOR EXPANSION JOINT DETAILS SEE STEEL DWGS
MIN. BAR LAP 24 DIA.
ALL HORIZONTAL DIMENSIONS ARE AT 90°
CUT SLAB REINFORCING BARS IN FIELD TO MISS DRAINS AND SCUPPERS.

DECK SLAB - UNIT "D"
SECTIONS AND DETAILS

F.A.I. 74 - SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 263+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 103 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

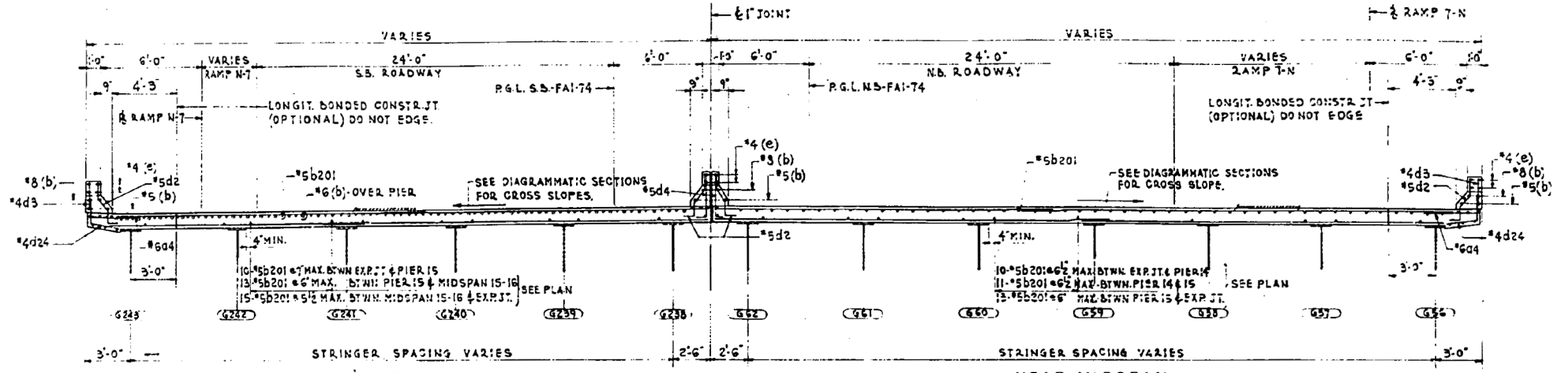
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX112 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	731
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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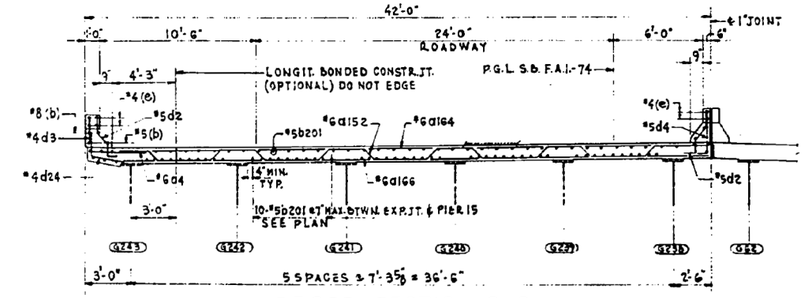
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	298	86
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-145



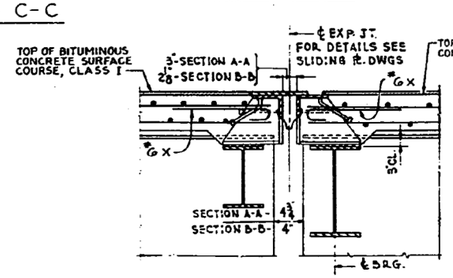
CROSS SECTION C-C

SCALE: ¼"=1'-0"



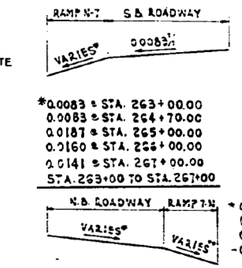
CROSS SECTION D-D

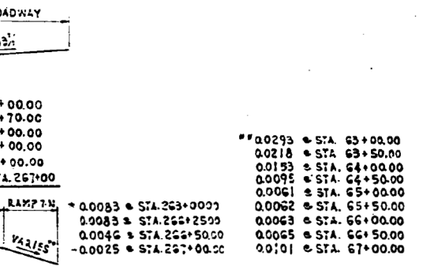
SCALE: ¼"=1'-0"



SECTIONS A-A & B-B

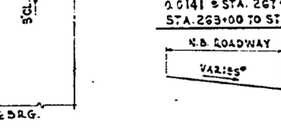
SCALE: 1"=1'-0"



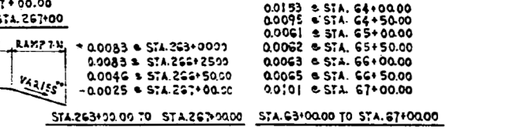


DIAGRAMMATIC SECTIONS FOR DECK SLAB

FASCIA PARAPET PANEL



MEDIAN PARAPET PANEL

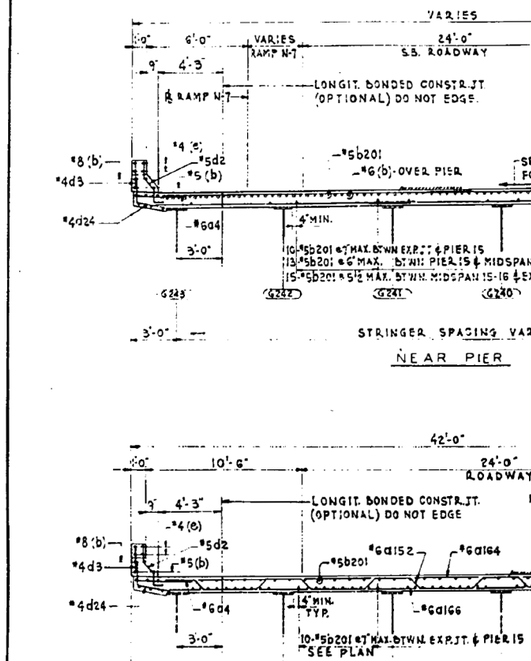


PARAPET REINFORCEMENT TABLE

PANEL	NO. OF PANELS	NO. OF BARS IN EACH PANEL VERTICAL BARS	HORIZ. BARS
A	6	20-*5d2	20-*4d3 4-*4e19
B	6	20-*5d2	20-*4d3 4-*4e3
C	2	36-*5d2	36-*4d3 4-*4e1
D	5	18-*5d2	18-*4d3 4-*4e26
E	1	18-*5d2	18-*4d3 4-*4e1
F	4	17-*5d2	17-*4d3 4-*4e6
G	5	16-*5d2	16-*4d3 4-*4e5
H	2	15-*5d2	13-*4d3 4-*4e65
J	2	14-*5d2	14-*4d3 4-*4e
K	6	17-*5d2	17-*4d3 4-*4e50
L	6	34-*5d2	32-*5d4 4-*4e50
M	2	40-*5d2	38-*5d4 4-*4e3
N	5	36-*5d2	34-*5d4 4-*4e26
P	4	34-*5d2	32-*5d4 4-*4e6
R	1	28-*5d2	26-*5d4 4-*4e
S	1	26-*5d2	24-*5d4 4-*4e65

NOTE
WORK THIS DWG. WITH DWG. NO. S-144

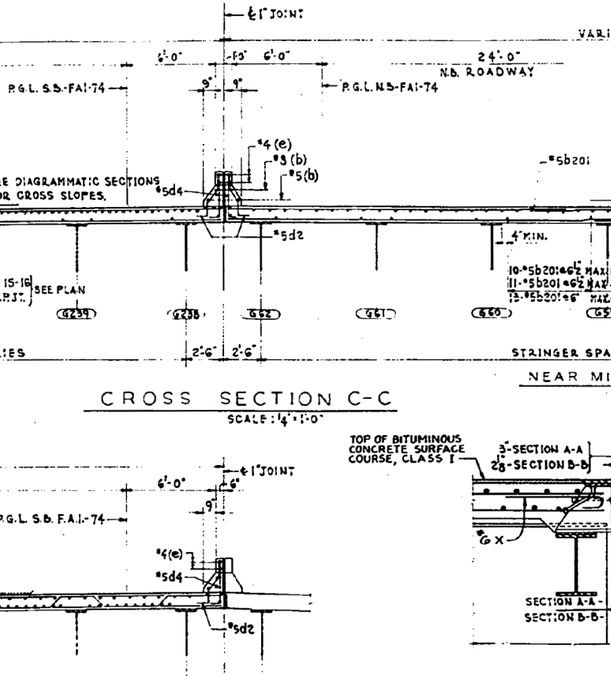
DECK SLAB UNIT "E"
MAINLINE SECTIONS & DETAILS
F.A.I. 74-SECTION 81-1HVB
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED
DATE:



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

FASCIA CURB SECTION

SCALE: 1"=1'-0"



MEDIAN CURB SECTION

SCALE: 1"=1'-0"

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 104 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

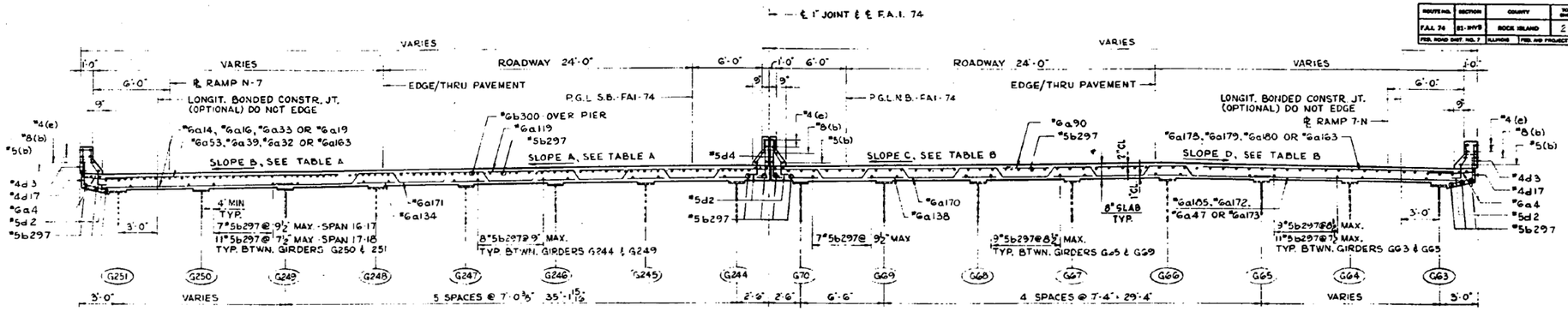
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX113 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	732
			CONTRACT NO. 64C08	
		ILLINOIS FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	292	139
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

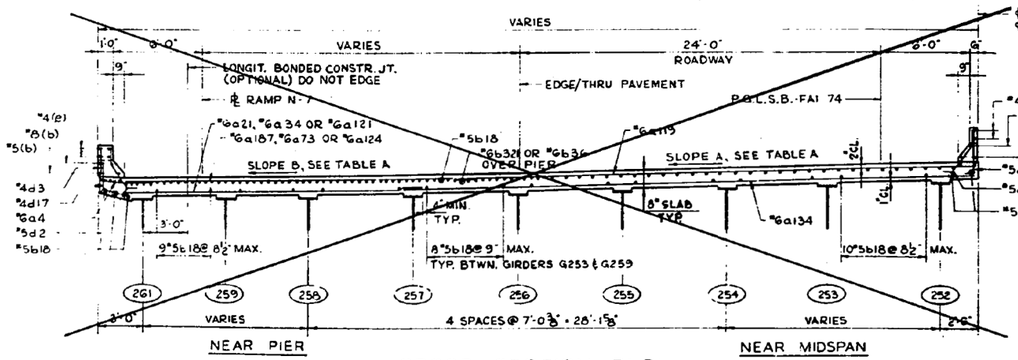
DWG. S-150



NEAR PIER — NEAR MIDSPAN

CROSS SECTION A-A

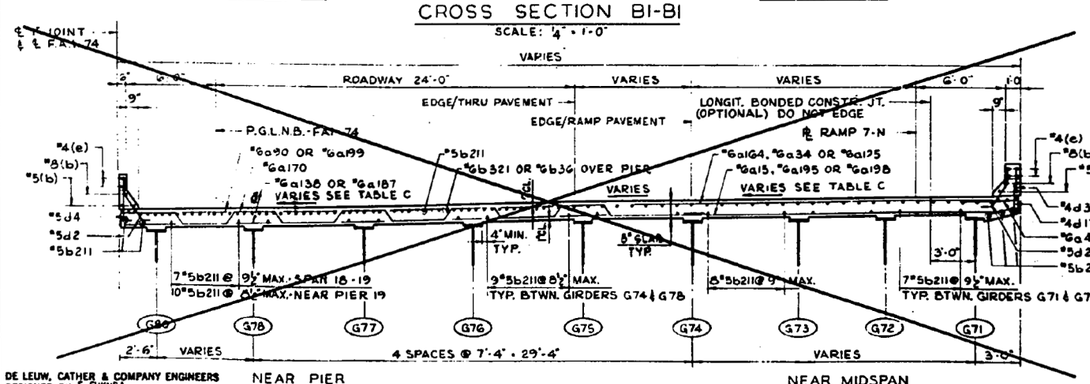
SCALE: ¼" = 1'-0"



NEAR PIER — NEAR MIDSPAN

CROSS SECTION BI-BI

SCALE: ¼" = 1'-0"



NEAR PIER — NEAR MIDSPAN

CROSS SECTION C-C

SCALE: ¼" = 1'-0"

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

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+50	.0216	.0090

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+34	9
PIER 19SB	6
PIER 20NB	8
PIER 20SB G260-G261	8
PIER 20SB G256-G257	8

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

~~TABLE C~~

STA.			
268+30	.0216	.0000	.0000
268+50	.0280	.0051	.0056
269+00	.0316	.0102	.0135
269+50	.0368	.0217	.0215
269+75	.0425	.0326	.0225
270+00	.0462	.0427	.0238

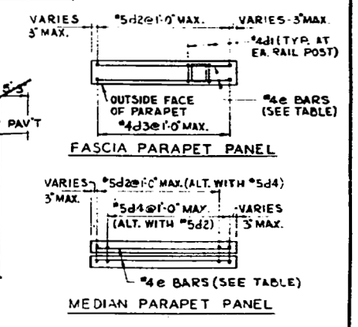
~~TABLE D~~

STA.			
270+00	.0462	.0427	.0380
270+25	.0191	.0190	.0380
270+50	.0236	.0281	.0380
270+75	.0243	.0429	.0380
270+85	.0244	.0488	.0380

~~TABLE E~~

STA.					STA.
270+00	.0462	.0427	.0421	.0231	70+00
270+25	.0496	-.0440	.0256	.0262	70+25
270+50	.0533	.0046	.0298	.0294	70+50
270+75	.0570	.0908	.0221	.0300	70+75
271+00	.0570	.2555	.0400	.0300	71+00

* TRANSITION SLOPE FROM 0.0427 @ STA. 270+00 TO 0.0496 @ STA. 270+25



FASCIA PARAPET PANEL

MEDIAN PARAPET PANEL

PARAPET REINF TABLE

PANEL	NO. OF PANELS	NO. OF BARS IN EACH PANEL		
		VERTICAL BARS		HORIZ. BARS
A	16	18-*5d2	18-*4d3	4-*4e1
B	4	14-*5d2	14-*4d3	4-*4e9

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

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 105 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

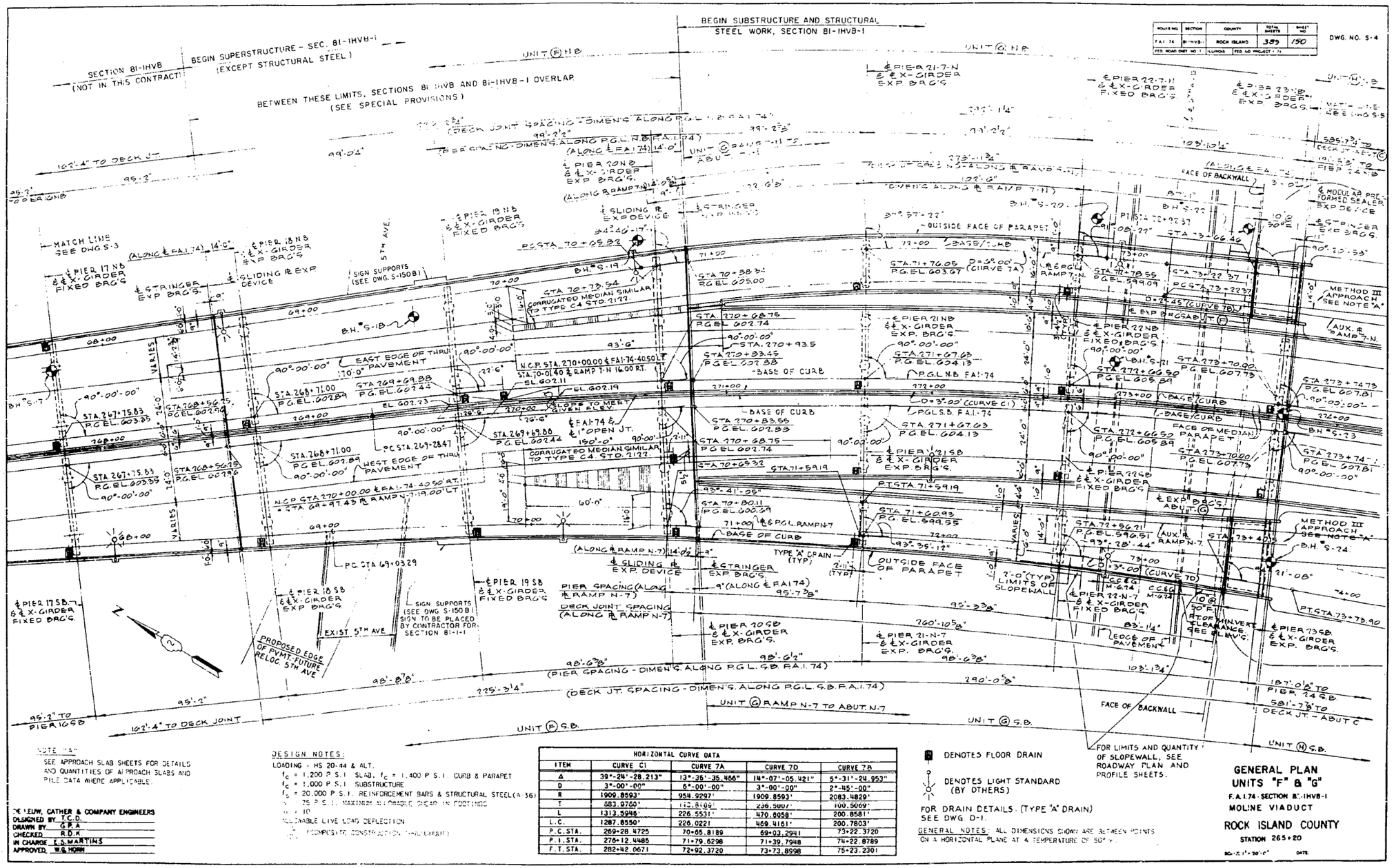
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX114 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	733
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1HVB-)	ROCK ISLAND	389	150
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT - 74		

DWG. NO. S-4


SECTION 81-1HVB (NOT IN THIS CONTRACT)
BEGIN SUPERSTRUCTURE - SEC. 81-1HVB-1 (EXCEPT STRUCTURAL STEEL)
BEGIN SUBSTRUCTURE AND STRUCTURAL STEEL WORK, SECTION 81-1HVB-1
BETWEEN THESE LIMITS, SECTIONS 81-1HVB AND 81-1HVB-1 OVERLAP (SEE SPECIAL PROVISIONS)
UNIT (F) N.B.
UNIT (G) N.B.
UNIT (H) N.B.
UNIT (F) S.B.
UNIT (G) S.B.
UNIT (H) S.B.
UNIT (G) RAMP N-7 TO ABUT. N-7
MATCH LINE SEE DWG. S-3
℄ PIER 17 NB ℄ X-GIRDER FIXED BRG'S
℄ STRINGER EXP BRG'S.
℄ SLIDING ℄ EXP DEVICE
℄ PIER 18 NB ℄ X-GIRDER EXP BRG'S
℄ PIER 19 NB ℄ X-GIRDER FIXED BRG'S
℄ SLIDING ℄ EXP DEVICE
℄ STRINGER EXP BRG'S.
℄ PIER 21-7-N ℄ X-GIRDER EXP. BRG'S
℄ PIER 22-7-N ℄ X-GIRDER FIXED BRG'S
℄ PIER 23-7-N ℄ X-GIRDER EXP. BRG'S.
℄ PIER 17 SB ℄ X-GIRDER FIXED BRG'S.
℄ PIER 18 SB ℄ X-GIRDER EXP BRG'S
℄ PIER 19 SB ℄ X-GIRDER FIXED BRG'S
℄ PIER 20 SB ℄ X-GIRDER EXP. BRG'S.
℄ PIER 21-N-7 ℄ X-GIRDER EXP. BRG'S.
℄ PIER 22-N-7 ℄ X-GIRDER FIXED BRG'S
℄ PIER 23 SB ℄ X-GIRDER EXP. BRG'S.
℄ EXP BRGS. ABUT. G
℄ EXP BRGS. ABUT. H
SIGN SUPPORTS (SEE DWG. S-150B)
SIGN SUPPORTS (SEE DWG S-150B) SIGN TO BE PLACED BY CONTRACTOR FOR SECTION 81-1-1
PROPOSED EDGE OF PVMT. FUTURE RELOC. 5TH AVE
EXIST. 5TH AVE.
5TH AVE.
EAST EDGE OF THRU PAVEMENT
WEST EDGE OF THRU PAVEMENT
OUTSIDE FACE OF PARAPET
FACE OF MEDIAN PARAPET
FACE OF BACKWALL
EDGE OF PAVEMENT
BASE OF CURB
BASE/CURB
CORRUGATED MEDIAN SIMILAR TO TYPE C4 STD. 7122
SLOPE TO MEET GIVEN ELEV.
TYPE 'A' DRAIN (TYP)
2'-0" (TYP) LIMITS OF SLOPEWALL
10" MIN. DEPTH OF WINTER CLEARANCE SEE ELEVATIONS
MODULAR PREFORMED SEALER EXP. DEVICE
METHOD III APPROACH SEE NOTE "A"
AUX. ℄ RAMP 7-N.
℄ RAMP 7-N.
℄ EXP BRGS AB U-G
℄ EXP BRGS AB U-H
B.H. S-18
B.H. S-19
B.H. S-7
B.H. S-21
B.H. S-23
B.H. S-24
P.C. STA. 69+03.29
P.C. STA. 269+28.47
P.C. STA. 70+65.32
P.T. STA. 71+59.19
P.C.C. STA. 72+92.37
P.C.C. STA. 73+66.46
P.C.C. STA. 73+22.37
P.C.C. STA. 73+22.37
P.T. STA. 73+73.90
N.C.P. STA. 270+00.00 ℄ FA.I.-74 40.50 RT. ± STA. 69+97.43 ℄ RAMP 7-N 19.00 LT
N.C.P. STA. 270+00.00 ℄ FA.I.-74 40.50 RT.
N.C.P. STA. 270+00.00 ℄ FA.I.-74 40.50 LT. STA. 70+01.40 ℄ RAMP 7-N 16.00 RT. EL. 602.11
FA.I.-74 & 1" OPEN JT.
(ALONG ℄ FA.I.-74) 14'-0"
(ALONG ℄ RAMP 7-N) 14'-0"
(ALONG ℄ RAMP 7-N) 14'-0"
(ALONG ℄ FA.I.-74) 14'-0"
(ALONG ℄ RAMP 7-N) 14'-0"
(CURVING ALONG ℄ RAMP 7-N)
PIER SPACING (ALONG ℄ RAMP N-7)
DECK JOINT SPACING (ALONG ℄ RAMP N-7)
(PIER SPACING - DIMEN'S. ALONG P.G.L. S.B. F.A.I. 74)
(DECK JT. SPACING - DIMEN'S. ALONG P.G.L. S.B. F.A.I. 74)
(DECK JOINT SPACING - DIMEN'S. ALONG P.G.L. N.B. F.A.I. 74)
(PIER SPACING - DIMEN'S. ALONG P.G.L. N.B. F.A.I. 74)
102'-4" TO DECK JOINT
95'-2" TO PIER 16 SB
95'-2"
99'-0"
99'-7½"
99'-2⅝"
98'-6⅜"
98'-6½"
98'-6⅜"
98'-8⅞"
95'-7⅜"
95'-2⅜"
93'-6"
93'-11¾"
103'-11¾"
103'-13¼"
760'-10⅝"
725'-3¼"
290'-0⅝"
187'-0½" TO PIER 24 SB
581'-7⅜" TO DECK JT. - ABUT C
586'-7⅜" TO DECK JT. - ABUT H
STA. 70+65.32
STA. 70+73.54
STA. 70+88.34
STA. 71+76.05
STA. 72+78.55
STA. 73+22.37
STA. 73+66.46
STA. 268+71.00
STA. 268+56.79
STA. 267+75.83
STA. 269+69.88
STA. 269+84.22
STA. 270+68.75
STA. 270+83.55
STA. 270+93.5
STA. 271+59.19
STA. 271+67.63
STA. 272+66.50
STA. 272+70.00
STA. 272+74.73
STA. 273+40.25
STA. 70+80.11
STA. 71+60.93
STA. 72+56.71
STA. 73+70.00
P.G.L. RAMP N-7
P.G.L. S.B. F.A.I.-74
P.G.L. N.B. F.A.I.-74
P.G.L. RAMP 7-N
P.G.L. RAMP N-7
P.G.L. S.B. F.A.I.-74
P.G.L. N.B. F.A.I.-74
P.G.L. RAMP 7-N

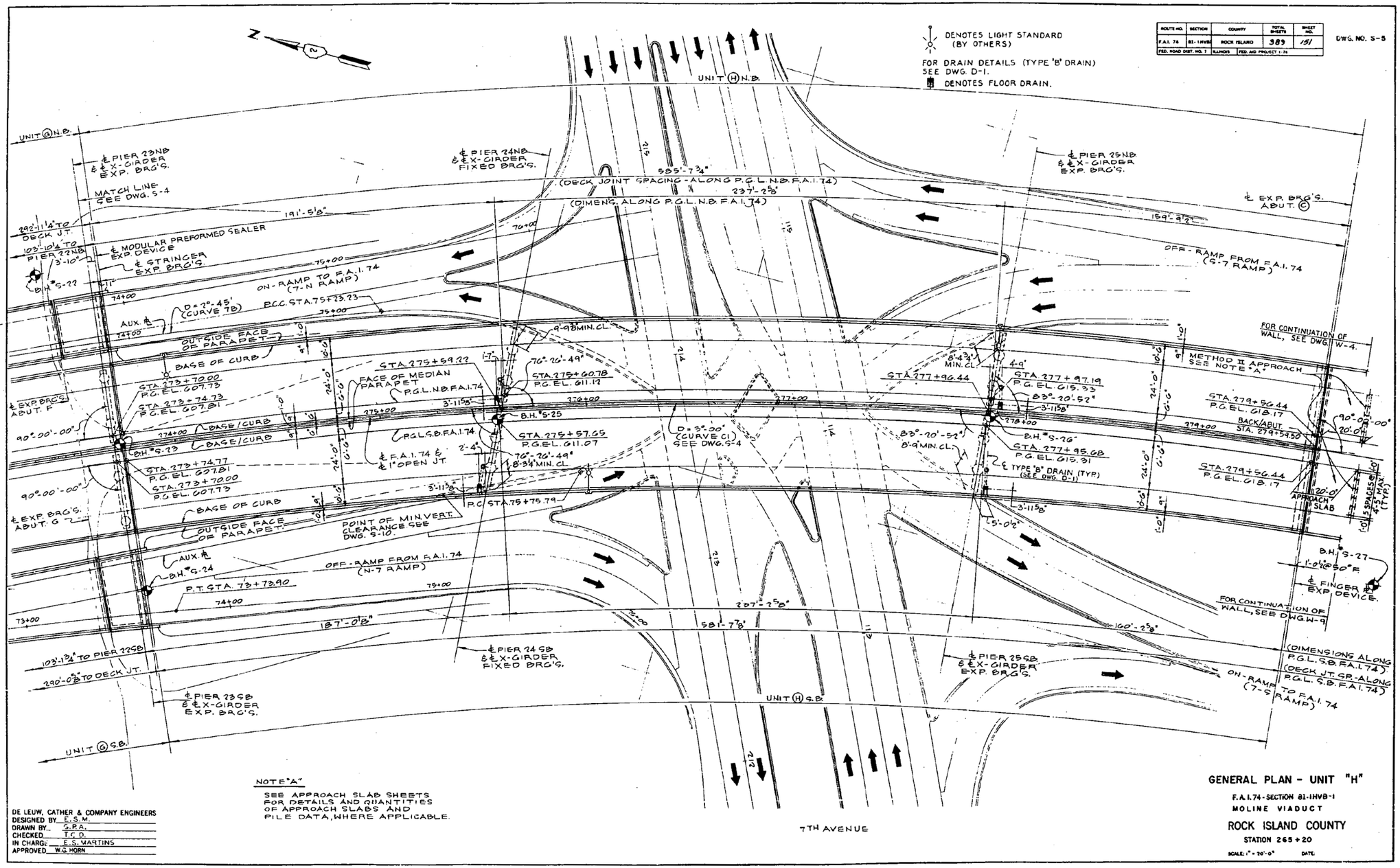
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	151
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-5

DENOTES LIGHT STANDARD (BY OTHERS)

FOR DRAIN DETAILS (TYPE 'B' DRAIN) SEE DWG. D-1.

DENOTES FLOOR DRAIN.



NOTE "A"

SEE APPROACH SLAB SHEETS FOR DETAILS AND QUANTITIES OF APPROACH SLABS AND PILE DATA, WHERE APPLICABLE.

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 PLAN - UNIT "H"

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: 1" = 20'-0" DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A8321-802-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 187 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

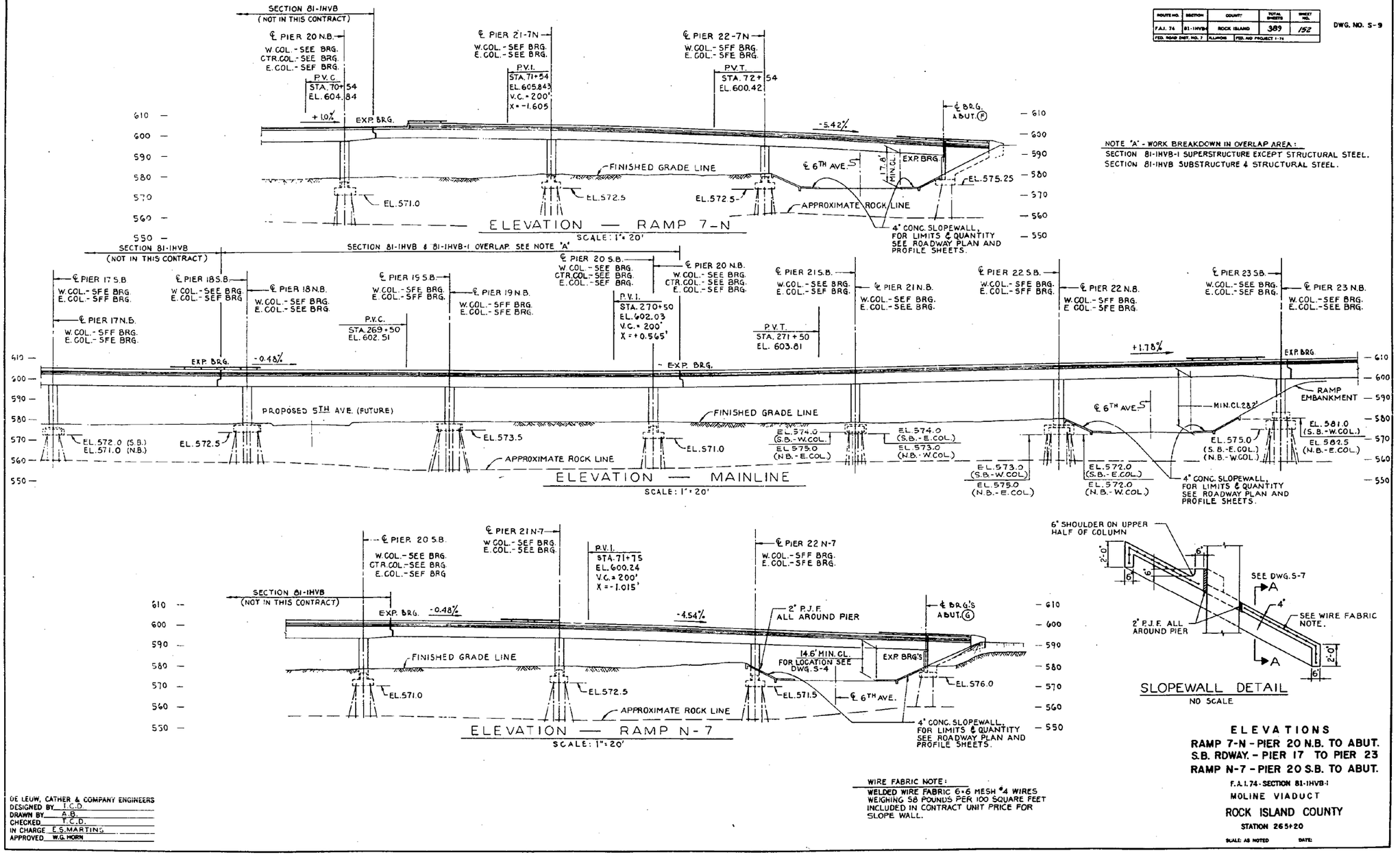
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX116 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	735
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

1/18/2017 4:06:50 PM c:\pwise_work\do_not_delete\dms04543\8818178-A8321-802-Contract AB Demo_Rasters.brg

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-I	ROCK ISLAND	389	152
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-9



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

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 108 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

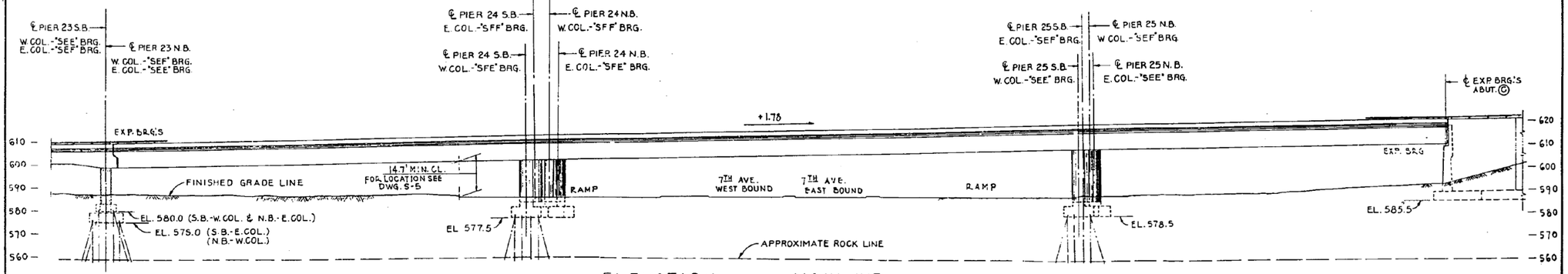
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX117 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	736
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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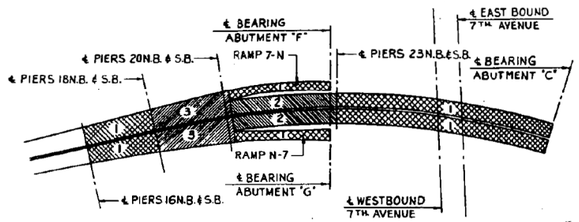
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	153
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-10



ELEVATION — MAINLINE

SCALE: 1" = 20'



SLAB POURING SEQUENCE

AREAS SHADED [1] MUST BE POURED BEFORE ANY ADJACENT AREAS SHADED [2] OR [3] ARE POURED.

AREAS SHADED [2] MUST BE POURED BEFORE ANY ADJACENT AREAS SHADED [3] ARE POURED.

AREAS SHADED [3] MAY NOT BE POURED UNTIL ALL ADJACENT AREAS SHADED [1] OR [2] ARE IN PLACE.

ELEVATION - MAINLINE PIER 23 TO ABUT.©

F.A.I. 74 - SECTION 81-1HVB-1

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

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

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 189 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

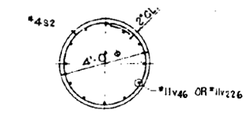
SHEET NO. SX118 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	737
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

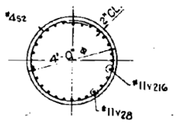
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	155
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

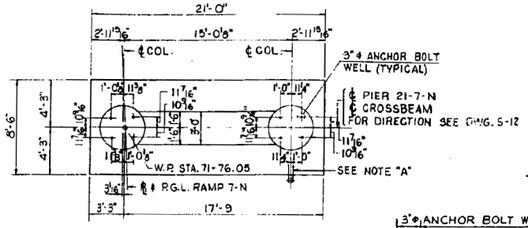
DWG. NO. S-42



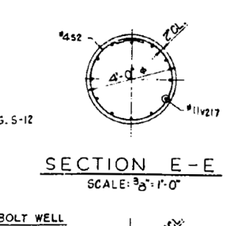
SECTION B-B
SCALE: 3/8" = 1'-0"



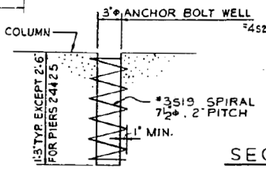
SECTION C-C
SCALE: 3/8" = 1'-0"



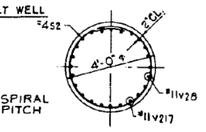
PLAN
SCALE: 3/16" = 1'-0"



SECTION E-E
SCALE: 3/8" = 1'-0"

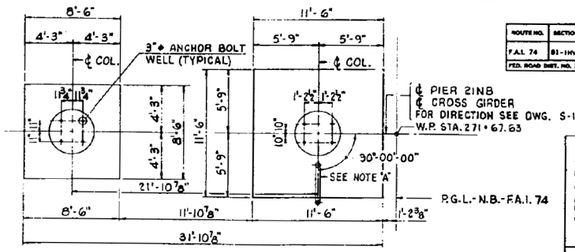


ANCHOR BOLT WELL DETAIL

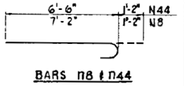


SECTION F-F
SCALE: 3/8" = 1'-0"

NOTE:
ANCHOR BOLT WELL SHALL BE CAPPED TO PREVENT INTRUSION OF WATER AND DEBRIS UNTIL BEARINGS ARE PLACED. (TYPICAL)



PLAN
SCALE: 3/16" = 1'-0"



BARS N8 & N44

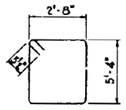
	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 21-7-N	N44	40	11	7'- 8	
	S2	52	4	12'- 6	
	S17	11	5	16'-11	
	S19	8	3	14'- 9	
	T83	26	7	8'- 2	
	V28	14	11	12'- 0	
	V46	12	11	23'- 2	
	V216	14	11	22'-10	
	W35	8	11	16'- 8	
	W121	12	9	20'- 8	
PIER 21NB	N8	24	11	8'- 4	
	N44	12	11	7'- 8	
	S2	48	4	12'- 6	
	S19	8	3	14'- 9	
	T67	10	8	8'- 2	
	T70	14	10	11'- 2	
	V28	12	11	12'- 0	
	V217	12	11	21'- 6	
	V226	12	11	21'- 5	
	W120	14	10	11'- 2	
	W173	10	8	8'- 2	

REINFORCING BAR LIST

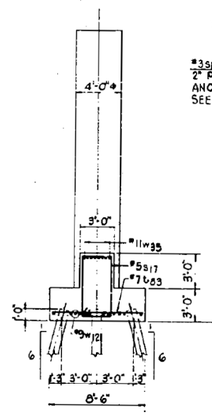
NOTE:
BAR MARKS INDICATED IN LOWER CASE ON DWG. AND IN UPPER CASE ON THE BAR LIST REFER TO THE SAME BAR.



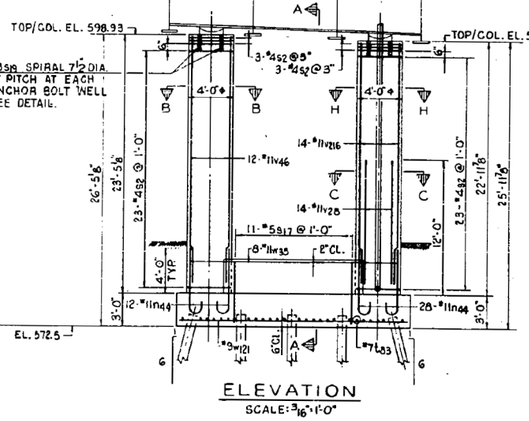
BAR S2



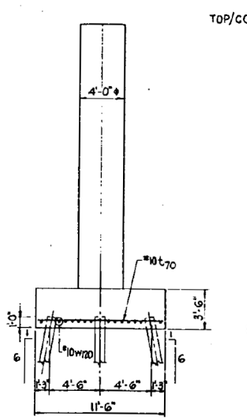
BAR S17



SECTION A-A
SCALE: 3/16" = 1'-0"

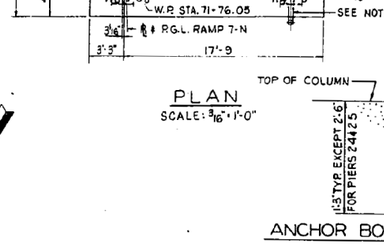


ELEVATION
SCALE: 3/16" = 1'-0"

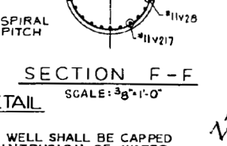


SECTION D-D
SCALE: 3/16" = 1'-0"

SECTION H-H
SCALE: 3/8" = 1'-0"

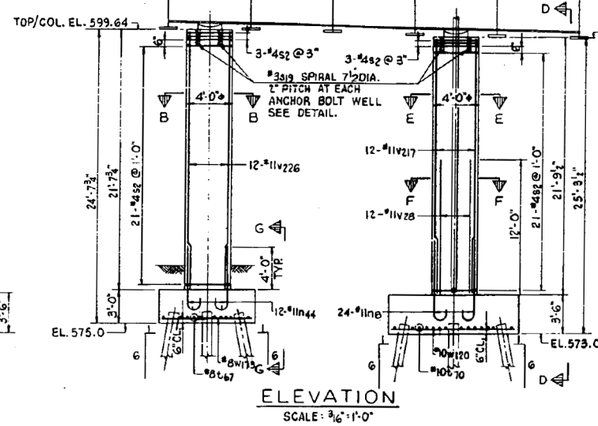


PILE PLAN
SCALE: 3/16" = 1'-0"

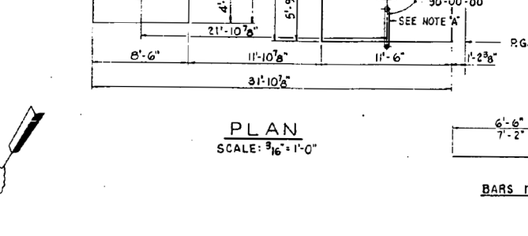


SECTION G-G
SCALE: 3/16" = 1'-0"

PIER 21-7-N DETAILS



ELEVATION
SCALE: 3/16" = 1'-0"



PILE PLAN
SCALE: 3/16" = 1'-0"

PIER 21NB DETAILS

PILE DATA

LOCATION	PIER 21-7-N	PIER 21NB EAST	PIER 21NB WEST
PILE TYPE	8 BP36	8 BP36	10 BP42
CAPACITY	DRIVE TO REFUSAL		
NUMBER REQUIRED	15 *	9	9 *
ESTIMATED LENGTH - FT.	13	15	13
CUT OFF ELEVATION	573.5	576.0	574.0

* INCLUDES 1 TEST PILE

DENOTES BATTER PILES IN DIRECTION OF ARROW

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 21-7-N	QUANTITY PIER 21NB
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	81	84
REINFORCEMENT BARS	POUND	8356	7260
CLASS "X" CONCRETE	CU. YD.	45.4	45.4
FURNISHING STEEL PILES - 8BP36	LIN. FT.	182	135
TEST PILE - 8 BP 36	EACH	1	-
FURNISHING STEEL PILES - 10 BP42	LIN. FT.	-	104
TEST PILE - 10 BP42	EACH	-	1
DRIVING STEEL PILES	LIN. FT.	182	239

NOTES:
REFER TO DWG. S-12 FOR LOCATION OF WORK POINTS FROM STAKE OUT LINE.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN.
NOTE "A" - FOR DRAINAGE DETAILS SEE DWG. D-1.

PIERS 21 (7-N) AND 21 (N.B.)

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY N. MEINNES
DRAWN BY D.C. HAMILTON
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

PIER 21-7-N DETAILS

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

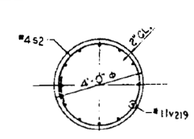
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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 110 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

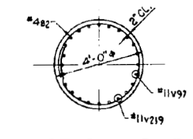
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX119 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	738
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

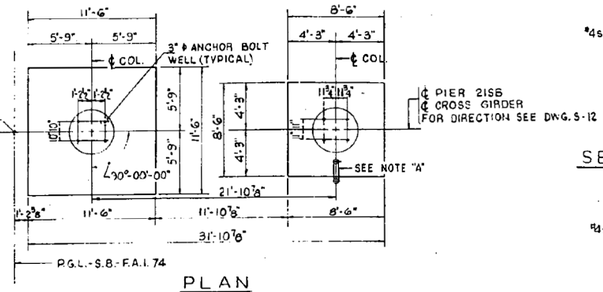
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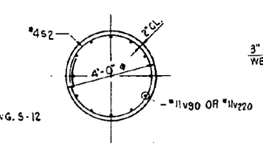
SECTION B-B
SCALE: 3/8"=1'-0"



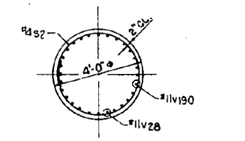
SECTION C-C
SCALE: 3/8"=1'-0"



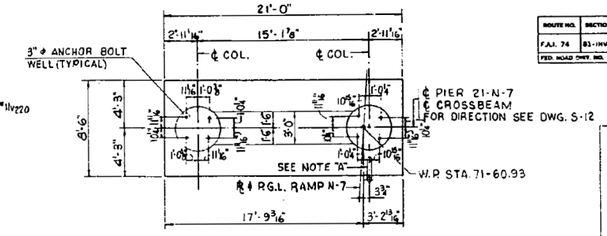
PLAN
SCALE: 3/16"=1'-0"



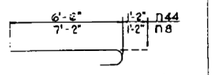
SECTION E-E
SCALE: 3/8"=1'-0"



SECTION F-F
SCALE: 3/8"=1'-0"



PLAN
SCALE: 3/16"=1'-0"



BARS n8 & n44

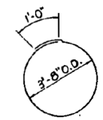
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	156
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-43

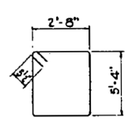
REINFORCING BAR LIST

	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 21SB	N8	24	11	8- 4	
	N44	12	11	7- 8	
	S2	46	4	12- 6	
	S19	8	3	14- 9	
	T47	10	8	8- 2	
	T70	14	10	11- 2	
	V97	12	11	11- 0	
	V219	12	11	19-11	
	V220	12	11	19- 8	
	W120	14	10	11- 2	
	W173	10	8	8- 2	
PIER 21-N-7	N44	40	11	7- 8	
	S2	44	4	12- 6	
	S17	11	5	16-11	
	S19	8	3	14- 9	
	T83	26	7	8- 2	
	V28	14	11	12- 0	
	V90	12	11	19- 8	
	V190	14	11	19- 1	
	W35	8	11	16- 8	
	W121	12	9	20- 8	

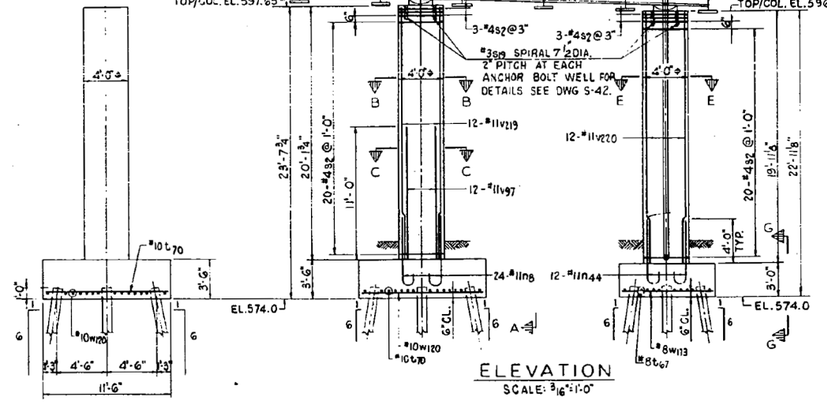
NOTE:
BAR MARKS INDICATED IN LOWER CASE ON DWG. AND IN UPPER CASE ON THE BAR LIST REFER TO THE SAME BAR.



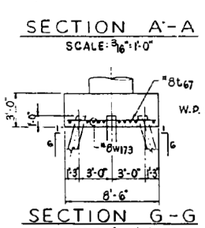
BAR S2



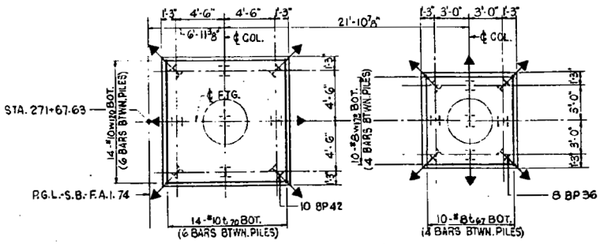
BAR S17



ELEVATION
SCALE: 3/16"=1'-0"

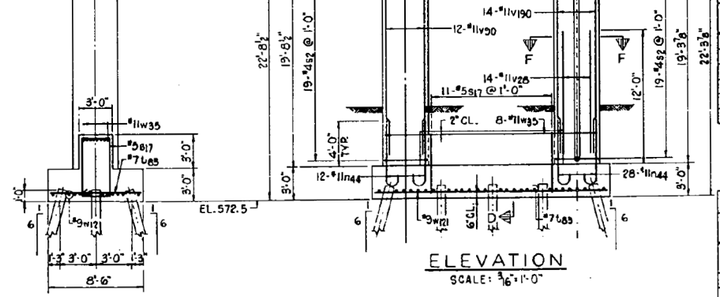


SECTION G-G
SCALE: 3/16"=1'-0"

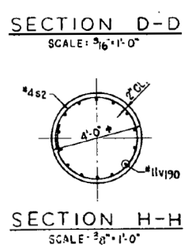


PILE PLAN
SCALE: 3/16"=1'-0"

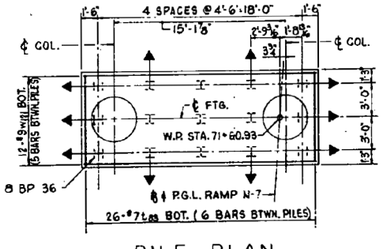
PIER 21SB DETAILS



ELEVATION
SCALE: 3/16"=1'-0"



SECTION H-H
SCALE: 3/8"=1'-0"



PILE PLAN
SCALE: 3/16"=1'-0"

PIER 21-N-7 DETAILS

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY N. McINNES
DRAWN BY O.C. HAMILTON
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

PILE DATA

LOCATION	PIER 21SB EAST	PIER 21SB WEST	PIER 21-N-7
PILE TYPE	10BP42	8 BP 36	8 BP36
CAPACITY	DRIVE TO REFUSAL		
NUMBER REQUIRED	9 #	9	15 #
ESTIMATED LENGTH - FT.	14	14	13
CUT OFF ELEVATION	575.0	575.0	573.5

INCLUDES 1 TEST PILE
DENOTES BATTER PILES IN DIRECTION OF ARROW

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 21SB	QUANTITY PIER 21-N-7
CLASS "A" EXCAVATION FOR STRUCTURES	CU.YD.	61	81
REINFORCEMENT BARS	POUND	6987	7776
CLASS "X" CONCRETE	CU.YD.	43.6	41.9
FURNISHING STEEL PILES-8 BP36	LIN. FT.	126	182
TEST PILE - 8 BP 36	EACH	—	1
FURNISHING STEEL PILES - 10 BP42	LIN. FT.	112	—
TEST PILE - 10 BP 42	EACH	1	—
DRIVING STEEL PILES	LIN. FT.	238	182

NOTES:
REFER TO DWG. S-12 FOR LOCATION OF WORK POINTS FROM STAKE OUT LINE.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN.
NOTE "A" - FOR DRAINAGE DETAILS SEE DWG. D-1

PIERS 21 (S.B.) AND 21 (N-7)

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

c:\pwise_work\do_not_delete\dms04543\0810178-A0321-002-Contract AB Demo_Rasters.brg
4:12:17 PM 1/18/2017

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

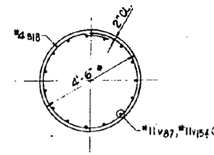
FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: III Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

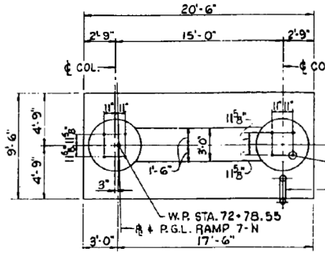
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX120 OF SX150 SHEETS

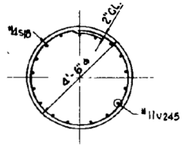
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	739
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			



SECTION B-B
SCALE: 3/8"=1'-0"

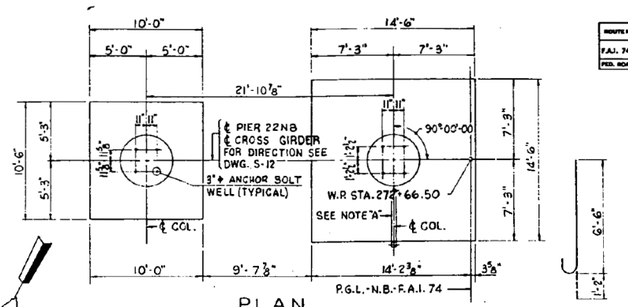


PLAN
SCALE: 3/16"=1'-0"



SECTION E-E
SCALE: 3/8"=1'-0"

SECTION F-F
SCALE: 3/8"=1'-0"



PLAN
SCALE: 3/16"=1'-0"

BAR N44

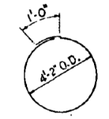
ROUTE NO.	DIRECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-I	ROCK ISLAND	389	157
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-44

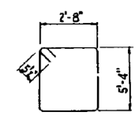
REINFORCING BAR LIST

	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 22-7-N	N44	30	11	7- 8	
	S17	11	5	16-11	
	S18	*2	4	14- 0	
	.19	8	3	14- 9	
	T85	26	7	9- 2	
	W87	15	11	18- 6	
	W154	15	11	18- 2	
	W58	8	11	17- 0	
	W76	12	9	20- 2	
PIER 22N8	N44	49	11	7- 8	
	S18	54	4	14- 0	
	S19	8	3	14- 9	
	T54	25	9	14- 2	
	T84	12	7	9- 8	
	W46	15	11	23- 2	
	W69	17	11	13- 0	
	W245	17	11	25- 0	
	W170	12	9	10- 2	
	W172	25	9	14- 2	

NOTE:
BAR MARKS INDICATED IN LOWER CASE ON DWG. AND IN UPPER CASE ON THE BAR LIST REFER TO THE SAME BAR.

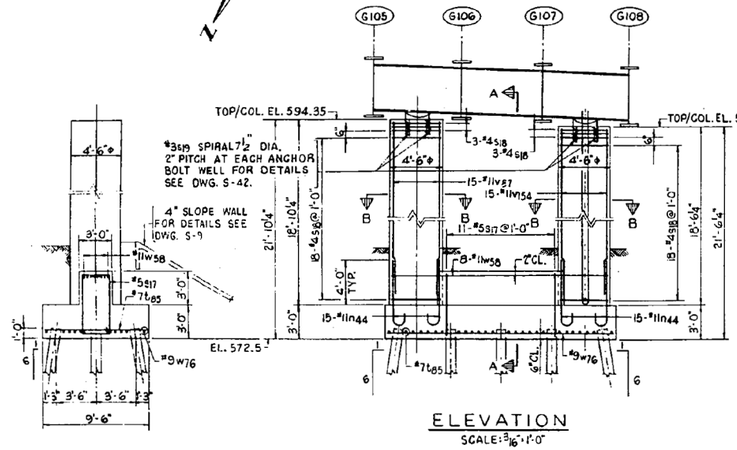


BAR S18



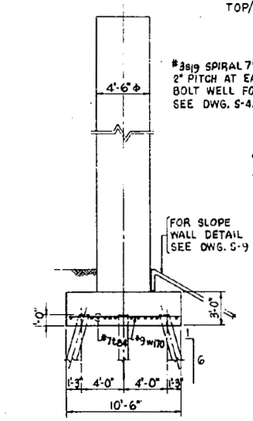
BAR S17

NOTES:
REFER TO DWG. S-12 FOR LOCATION OF WORK POINTS FROM STAKE OUT LINE.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN.
NOTE "A" - FOR DRAINAGE DETAILS SEE DWG D-1

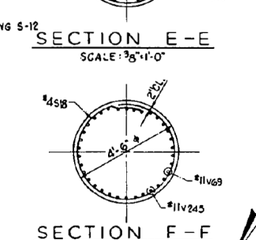


SECTION A-A
SCALE: 3/16"=1'-0"

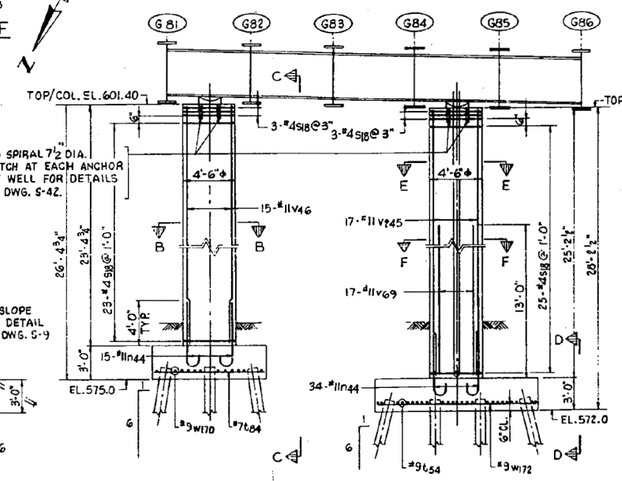
ELEVATION
SCALE: 3/16"=1'-0"



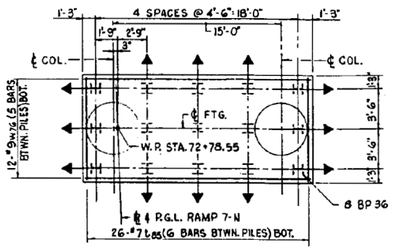
SECTION C-C
SCALE: 3/16"=1'-0"



SECTION D-D
SCALE: 3/16"=1'-0"

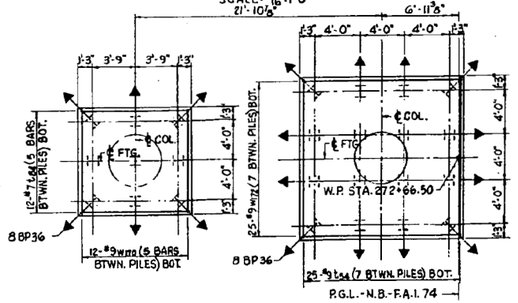


ELEVATION
SCALE: 3/16"=1'-0"



PILE PLAN
SCALE: 3/16"=1'-0"

PIER 22-7-N DETAILS



PILE PLAN
SCALE: 3/16"=1'-0"

PIER 22NB DETAILS

PILE DATA

LOCATION	PIER 22-7-N	PIER 22NB	
		EAST	WEST
PILE TYPE	8 BP 36	8 BP 36	8 BP 36
CAPACITY	DRIVE TO REFUSAL		
NUMBER REQUIRED	15 *	9	16 *
ESTIMATED LENGTH-FT.	14	16	13
CUT OFF ELEVATION	573.5	576.0	573.0

* INCLUDES 1 TEST PILE
⊣ DENOTES BATTER PILES IN DIRECTION OF ARROW

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 22-7-N	QUANTITY PIER 22NB
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	92	139
REINFORCEMENT BARS	POUND	6808	10884
CLASS "X" CONCRETE	CU. YD.	47.3	63.7
FURNISHING STEEL PILES-8 BP 36	LIN. FT.	196	339
DRIVING STEEL PILES	LIN. FT.	196	339
TEST PILE - 8 BP 36	EACH	1	1

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY N. MCINNES
DRAWN BY D. C. HAMILTON
CHECKED
IN CHARGE E. S. MARTINS
APPROVED W. G. HORN

PIERS 22 (7-N) AND 22 (N.B.)
F. A. I. 74 - SECTION 81-1HVB-I
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 112 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

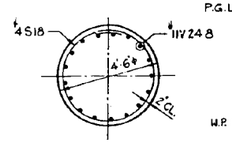
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX121 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

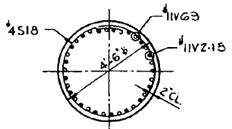
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	158
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

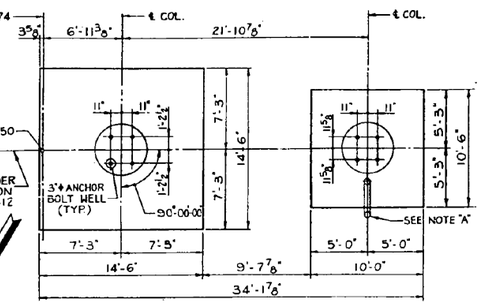
DWG. NO. S-45



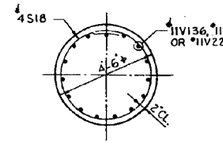
SECTION D-D
SCALE: 3/8"=1'-0"



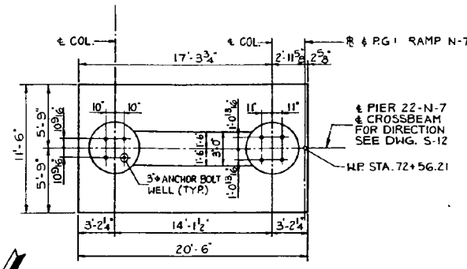
SECTION C-C
SCALE: 3/8"=1'-0"



PLAN
SCALE: 3/16"=1'-0"



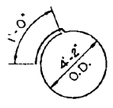
SECTION E-E
SCALE: 3/8"=1'-0"



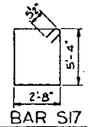
PLAN
SCALE: 3/16"=1'-0"

REINFORCING BAR LIST

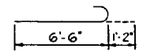
	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 22 S.B.	N44	49	11	7- 8	L
	S18	53	4	14- 0	STRAIGHT
	S19	8	3	14- 9	
	T54	25	9	14- 2	
	T84	12	7	9- 8	--
	V69	17	11	13- 0	--
	V247	15	11	22- 6	--
	V248	17	11	24- 4	--
	W170	12	9	10- 2	--
	W172	25	9	14- 2	--
PIER 22-N-7	N44	30	11	7- 8	L
	S17	10	5	14-11	STRAIGHT
	S18	40	4	14- 0	
	S19	8	3	14- 9	
	T71	26	9	11- 2	--
	V136	15	11	17- 1	--
	V228	15	11	17- 4	--
	W22	8	11	16- 3	--
	W76	14	9	20- 2	--



BAR S18



BAR S17



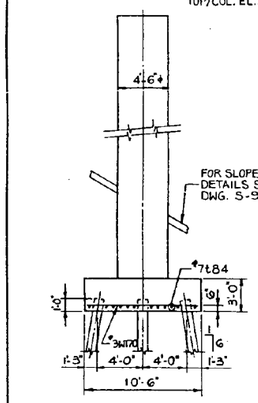
BAR N44

NOTES:
REFER TO DWG. S-12 FOR LOCATION OF WORK POINTS FROM STAKE-OUT LINE.

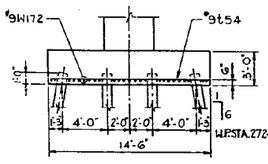
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMN.

BAR MARKS IN LOWER CASE ON DWGS. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.

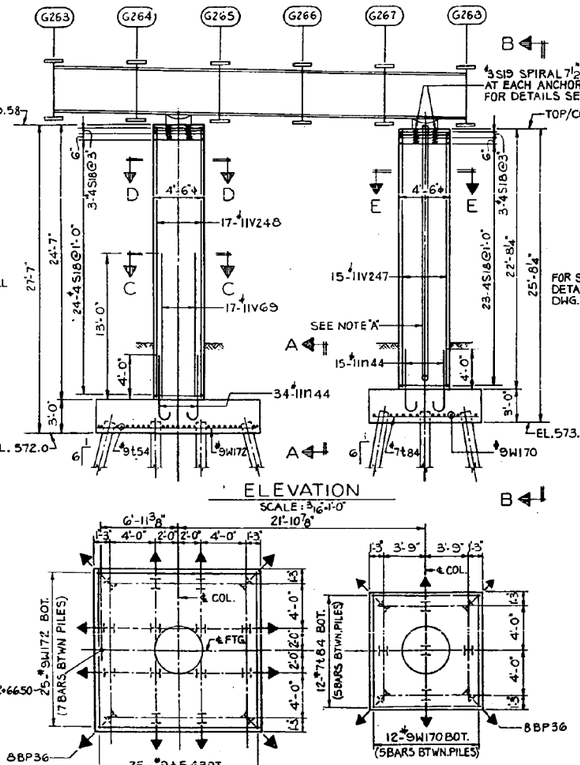
NOTE "A" - FOR DRAINAGE DETAILS SEE DWG. D-1.



SECTION B-B
SCALE: 3/16"=1'-0"



SECTION A-A
SCALE: 3/16"=1'-0"

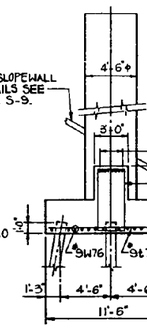


ELEVATION
SCALE: 3/16"=1'-0"

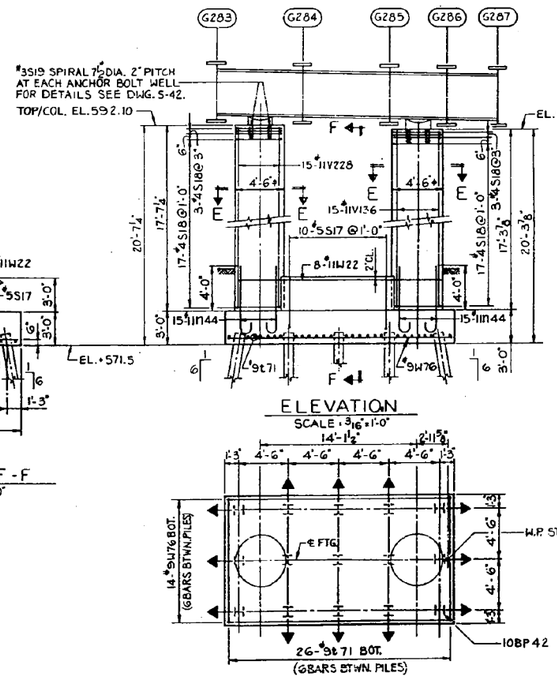
PILE PLAN
SCALE: 3/16"=1'-0"

PILE PLAN
SCALE: 3/16"=1'-0"

PIER 22SB DETAILS



SECTION F-F
SCALE: 3/16"=1'-0"



ELEVATION
SCALE: 3/16"=1'-0"

PILE PLAN
SCALE: 3/16"=1'-0"

PIER 22-N-7 DETAILS

PILE DATA

LOCATION	PIER 22 S.B. EAST	PIER 22 S.B. WEST	PIER 22-N-7
PILE TYPE	8BP36	8BP36	10BP42
CAPACITY	DRIVE	TO REFUSAL	
NUMBER REQUIRED	16*	9	15*
ESTIMATED LENGTH-FT.	13	14	13
CUT OFF ELEVATION	573.0	574.0	572.5

* INCLUDES 1 TEST PILE.
‡ DENOTES BATTER PILES. IN DIRECTION OF ARROW.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 22 SB	QUANTITY PIER 22-N-7
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	154	120
REINFORCEMENT BARS	POUND	10762	7198
CLASS "X" CONCRETE	CU. YD.	62.9	50.0
FURNISHING STEEL PILES - 8BP36	LIN. FT.	321	——
FURNISHING STEEL PILES - 10BP42	LIN. FT.	——	182
TEST PILES - 8BP36	EACH	1	——
TEST PILES - 10BP42	EACH	——	1
DRIVING STEEL PILES	LIN. FT.	321	182

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY N. MCINNES
DRAWN BY R.S. GHORBANIAN
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

PIERS 22 (S.B.) AND 22 (N-7)

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 113 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX122 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	741
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	159
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-46

SECTION B-B
SCALE: 3/8"=1'-0"

SECTION C-C
SCALE: 3/8"=1'-0"

PLAN
SCALE: 3/16"=1'-0"

PLAN
SCALE: 3/16"=1'-0"

BAR M44

BAR S18

ELEVATION
SCALE: 3/16"=1'-0"

SECTION A-A
SCALE: 3/16"=1'-0"

SECTION D-D
SCALE: 3/16"=1'-0"

ELEVATION
SCALE: 3/16"=1'-0"

SECTION E-E
SCALE: 3/16"=1'-0"

FOOTING PLAN
N.T.S.

FOOTING PLAN
N.T.S.

PIER 23N.B. DETAILS

PIER 23S.B. DETAILS

REINFORCING BAR LIST

	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 23N.B.	M44	45	11	7- 8	M40
	S18	42	4	14- 0	
	S19	9	3	14- 9	
	T54	26	9	14- 2	
	T68	10	8	8- 2	
	V28	15	11	12- 0	
	V132	15	11	15- 6	
	V217	15	11	21- 6	
	W172	26	9	14- 2	
	W173	10	8	8- 2	
PIER 23S.B.	M44	45	11	7- 8	M40
	S18	41	4	14- 0	
	S19	8	3	14- 9	
	T54	26	9	14- 2	
	T68	10	8	8- 2	
	V28	15	11	12- 0	
	V156	15	11	20-10	
	V246	15	11	14- 2	
	W172	26	9	14- 2	
	W173	10	8	8- 2	

NOTES:

REFER TO DWG. S-12 FOR LOCATION OF WORK POINTS FROM STAKE-OUT LINE.

ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERECE WITH RIB BARS EXTENDED INTO COLUMN.

BAR MARKS IN LOWER CASE ON DWGS. AND IN UPPER CASE ON BAR LIST REFER TO THE SAME BAR.

NOTE 'A' - FOR DRAINAGE DETAILS SEE DWG. D-1.

PILE DATA

LOCATION	PIER 23N.B. EAST	PIER 23N.B. WEST	PIER 23 S.B. EAST	PIER 23 S.B. WEST
PILE TYPE	8BP36	8BP36	8BP36	8BP36
CAPACITY	DRIVE TO REFUSAL			
NUMBER REQUIRED	9	16*	16*	9
ESTIMATED LENGTH - FT.	25	17	17	23
CUT OFF ELEVATION	583.5	576.0	576.0	582.0

* INCLUDES 1 TEST PILE.

DENOTES BATTER PILES, IN DIRECTION OF ARROW.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 23NB	QUANTITY PIER 23SB
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	70	70
REINFORCEMENT BARS	POUND	8625	8329
CLASS "X" CONCRETE	CU. YD.	53.5	52.5
FURNISHING STEEL PILES - 8BP36	LIN. FT.	480	462
DRIVING STEEL PILES	LIN. FT.	480	462
TEST PILES - 8BP36	EACH	1	1

PIERS 23(N.B.) AND 23(S.B.)

F.A.I.74-SECTION 81-1HVB-1

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY N. MCINNES
DRAWN BY R.S GHORBANIAN
CHECKED
IN CHARGE E.S MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0818178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 114 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX123 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	742
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81 (HVB)	ROCK ISLAND	389	160
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-47

REINFORCING BAR LIST

	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 24 S.B.	n33	14	14	14'-6	
	n57	24	18	16'-10	
	n57	14	18	25'-3	
	S12	34	5	17'-5	
	S13	2	4	16'-8	
	S21	22	5	19'-6	
	S30	2	5	15'-0	
	S31	2	5	15'-5	
	S32	2	5	28'-7	
	S33	6	5	29'-6	
	T11	16	11	14'-6	
	V250	24	11	19'-10	
	V251	13	11	5'-5	
	W10	6	6	14'-0	
	W113	18	11	26'-0	
	W174	21	11	26'-6	
PIER 24 N.B.	n33	14	14	14'-6	
	n34	17	18	29'-3	
	n57	14	18	25'-10	
	S12	37	5	17'-5	
	S13	2	4	16'-8	
	S21	22	5	19'-6	
	S30	2	5	15'-0	
	S31	2	5	15'-5	
	S32	2	5	28'-7	
	S33	8	5	29'-6	
	T11	26	11	14'-6	
	V194	24	11	19'-10	
	V251	13	11	5'-5	
	W10	6	6	14'-0	
	W113	18	11	26'-0	
	W174	21	11	26'-6	

PILE DATA

LOCATION	PIER 24 N.B.	PIER 24 S.B.
PILE TYPE	10 BP 57	10 BP 57
CAPACITY	DRIVE TO	REFUSAL
NUMBER REQUIRED	28 *	28
ESTIMATED LENGTH - FT.	19	19
CUT OFF ELEVATION	578.5	578.5

* INCLUDES 1 TEST PILE.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 24 NB	QUANTITY PIER 24 SB	TOTAL
CLASS X CONCRETE	CU.YD.	96.7	93.6	189.8
REINFORCING STEEL	POUND	21,584	21,110	42,694
CLASS A EXCAVATION FOR STRUCTURES	CU.YD.	97	97	194
FURNISHING STEEL PILES ®	LIN.FT.	513	532	1,045
DRIVING STEEL PILES	LIN.FT.	513	532	1,045
TEST STEEL PILES, 10BP57	EACH	1	-	1

® 10 BP 57

SECTION A-A
3/8" = 1'-0"

SECTION B-B
3/8" = 1'-0"

PLAN
NOT TO SCALE

SECTION C-C
3/8" = 1'-0"

SECTION D-D
3/8" = 1'-0"

SECTION E-E
3/8" = 1'-0"

PLAN
NOT TO SCALE

SECTION G-G
3/8" = 1'-0"

SECTION F-F
3/8" = 1'-0"

END VIEW
NOT TO SCALE

ELEVATION PIER 24 S.B.
NOT TO SCALE

END VIEW
NOT TO SCALE

ELEVATION PIER 24 N.B.
NOT TO SCALE

FOOTING PLAN
NOT TO SCALE

FOOTING PLAN
NOT TO SCALE.

BARS S12, S13, S30, S31 & S32

BAR	C
S12	5'-2"
S13	4'-3"
S30	4'-4½"
S31	4'-6"
S32	4'-9"

BAR n47

BAR S21

BARS n33, n34 & n57

BAR	A
n57	22'-3"
n33	16'-9"
n34	23'-0"

BAR V251

NOTE A: ◊ OPTIONAL WELDED SPLICE FOR COLUMN VERTICAL REINFORCEMENT (N 18 BARS ONLY) TO BE APPROVED BY ENGINEER.

NOTE B: FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.

NOTES:
ULTIMATE STRENGTH CLASS X CONCRETE = 4,000 P.S.I.
REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKE-OUT LINE.
BAR MARKS INDICATED T11 ETC., REFER TO MARK T11 IN THE REINFORCING BAR LIST.
MINIMUM BAR LAP = 24 DIAMETER.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMNS.

I DENOTES BATTER PILES IN DIRECTION OF ARROW.

PIERS 24 (N.B.) AND 24 (S.B.)
F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. RASHID
DRAWN BY L. LEE
CHECKED
IN CHARGE E. S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 115 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

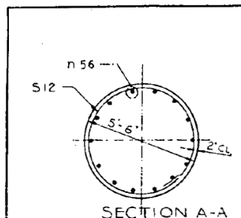
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX124 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	743
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

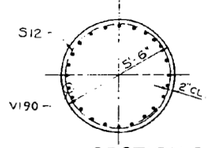
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	161
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

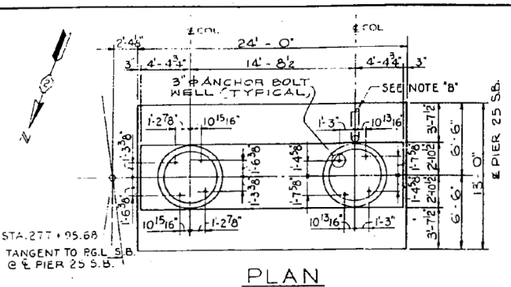
DWG. NO. S-48



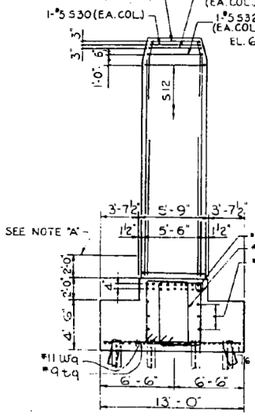
SECTION A-A
3/8" = 1'-0"



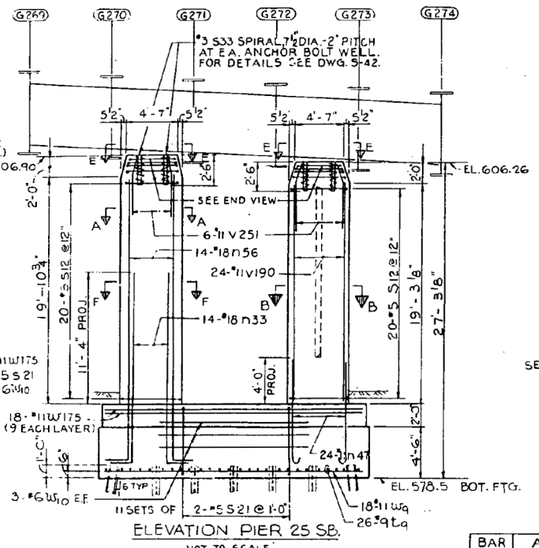
SECTION B-B
3/8" = 1'-0"



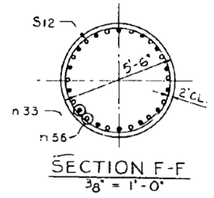
PLAN
NOT TO SCALE



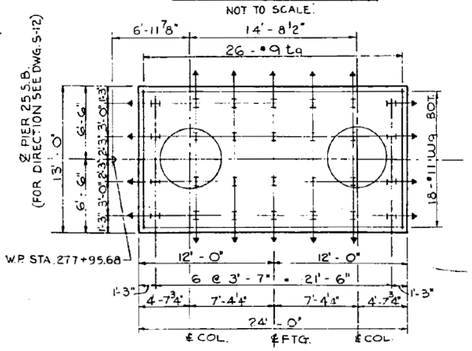
END VIEW
NOT TO SCALE



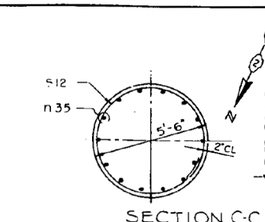
ELEVATION PIER 25 SB.
NOT TO SCALE



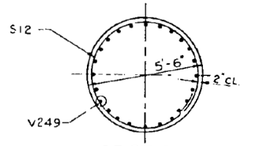
SECTION F-F
3/8" = 1'-0"



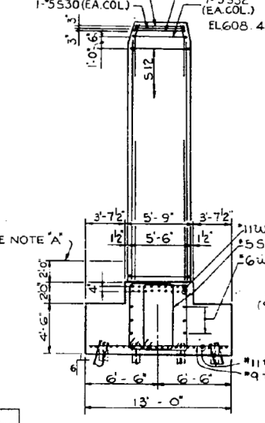
FOOTING PLAN
NOT TO SCALE



SECTION C-C
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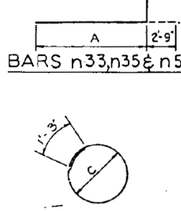


SECTION D-D
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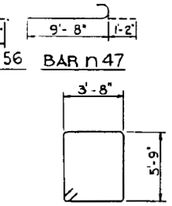


END VIEW
NOT TO SCALE

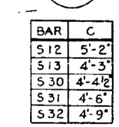
BAR	A
n33	16'-9"
n35	25'-9"
n56	25'-3"



BARS n33, n35 & n56



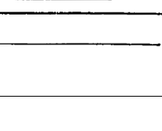
BAR n47



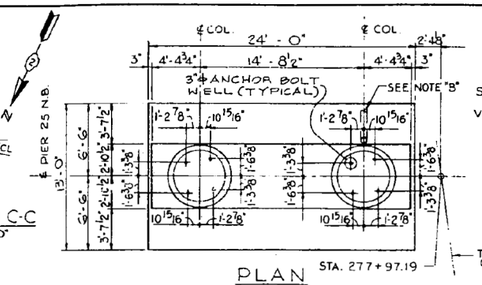
BAR	C
S12	5'-2"
S13	4'-3"
S30	4'-4½"
S31	4'-6"
S32	4'-9"



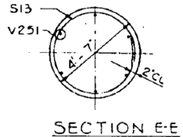
BAR S21



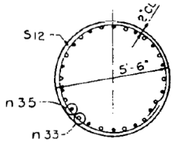
BAR V251



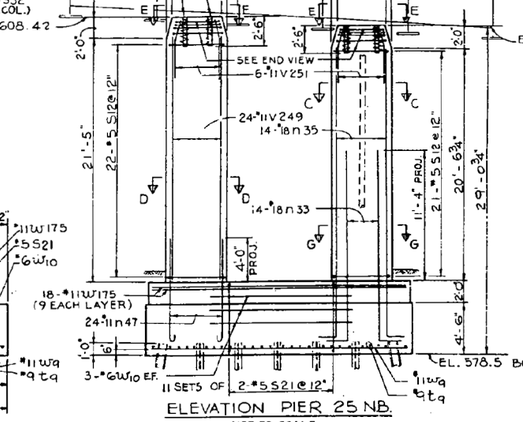
PLAN
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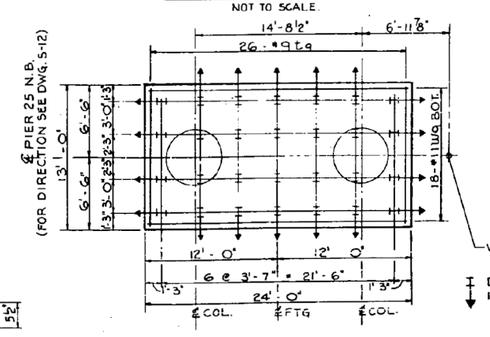
SECTION E-E
3/8" = 1'-0"



SECTION G-G
3/8" = 1'-0"



ELEVATION PIER 25 NB.
NOT TO SCALE



FOOTING PLAN
NOT TO SCALE

REINFORCING BAR LIST

	BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
PIER 25 S.B.	n33	14	18	19'-6	
	n47	24	11	10'-10	
	n56	14	18	28'-0	
	S12	43	5	17'-6	
	S13	2	5	14'-8	
	S21	22	5	19'-9	
	S30	2	5	15'-0	
	S31	2	5	15'-5	
	S32	2	5	15'-2	
	S33	8	3	29'-6	
	T9	26	9	12'-8	
	V190	24	11	19'-1	
	V251	12	11	5'-5	
	W9	18	11	23'-6	
	W10	6	6	14'-0	
	W175	18	11	23'-2	
PIER 25 N.B.	n33	14	18	19'-6	
	n35	14	18	24'-6	
	n47	24	11	10'-10	
	S12	43	5	17'-6	
	S13	2	5	14'-8	
	S21	22	5	19'-9	
	S30	2	5	15'-0	
	S31	2	5	15'-5	
	S32	2	5	15'-2	
	S33	8	3	29'-6	
	T9	26	9	12'-8	
	V249	24	11	21'-3	
	V251	12	11	5'-5	
	W9	18	11	23'-6	
	W10	6	6	14'-0	
	W175	18	11	23'-0	

NOTE A: ℄ OPTIONAL WELDED SPLICE FOR COLUMN VERTICAL REINFORCEMENT (# 18 BARS ONLY) TO BE APPROVED BY ENGINEER.

NOTE B: FOR DRAINAGE DETAILS, SEE DWG. D-1 AND HIGHWAY PLANS.

NOTES: ULTIMATE STRENGTH CLASS X CONCRETE = 4,000 P.S.I.
REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKE-OUT LINE.
BAR MARKS INDICATED tg ETC., REFER TO MARK T 9 IN THE REINFORCING BAR LIST.
MINIMUM BAR LAP = 24 DIAMETER.
ARRANGE COLUMN REINFORCEMENT TO AVOID INTERFERENCE WITH RIB BARS EXTENDING INTO COLUMNS.

PILE DATA

LOCATION	PIER 25 N.B.	PIER 25 S.B.
PILE TYPE	10 BP 57	10 BP 57
CAPACITY	DRIVE TO REFUSAL	
NUMBER REQUIRED	28*	28
ESTIMATED LENGTH-FT.	20	20
CUT OFF ELEVATION	579.5	579.5

* INCLUDES 1 TEST PILE.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY PIER 25 N.B.	QUANTITY PIER 25 S.B.	TOTAL
CLASS X CONCRETE	CU.YD.	101.7	99.3	201.0
REINFORCING STEEL	POUND	20,723	20,297	41,020
CLASS A EXCAVATION FOR STRUCTURES	CU.YD.	132	132	264
FURNISHING STEEL PILES*	LIN. FT.	540	560	1,100
DRIVING STEEL PILES	LIN. FT.	540	560	1,100
TEST STEEL PILES, 10BP57	EACH	1	-	1

* 10 BP 57

DENOTES BATTERED PILES IN DIRECTION OF ARROW.

PIERS 25 (N.B.) AND 25 (S.B.)
F.A.I. 74-SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE AS MOVED DATE

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. RASHID
DRAWN BY J. LEE
CHECKED
IN CHARGE F. S. MARTINS
APPROVED W. G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

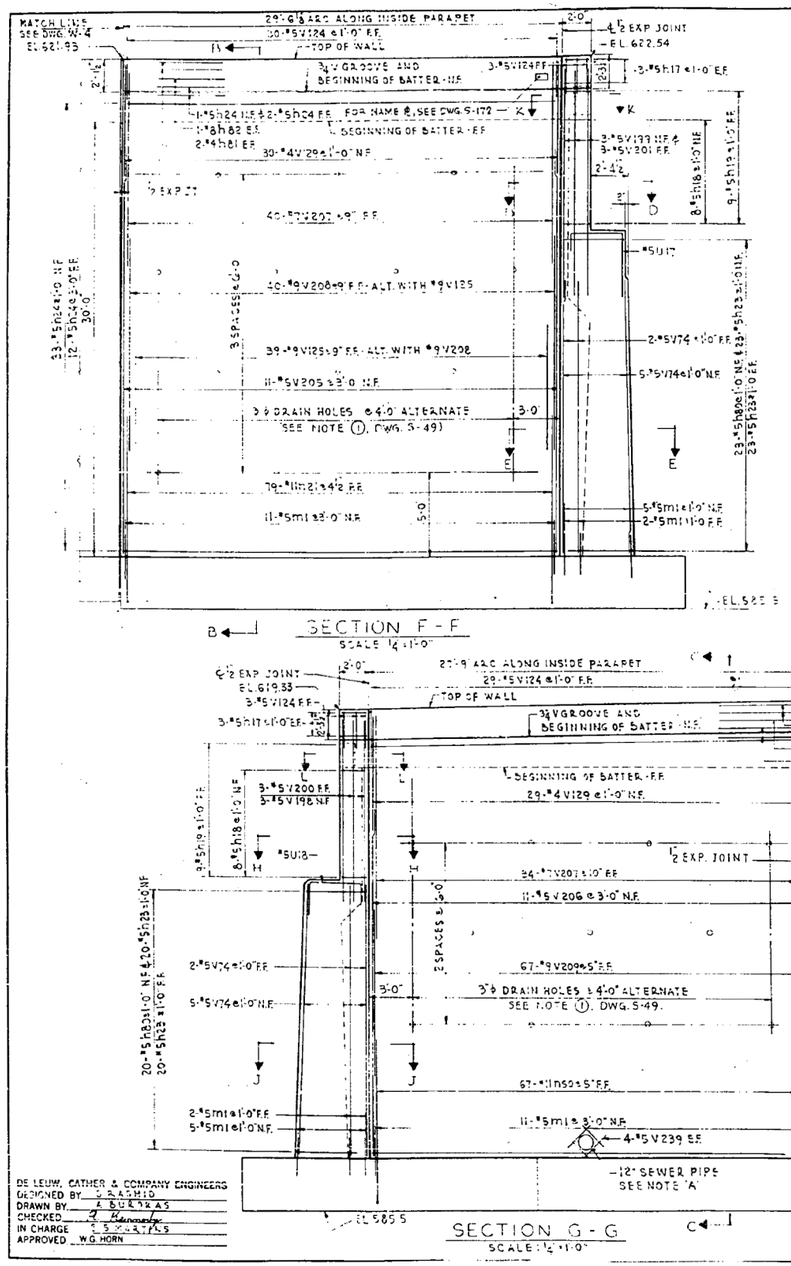
FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
MODEL: 116 Contract AB		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

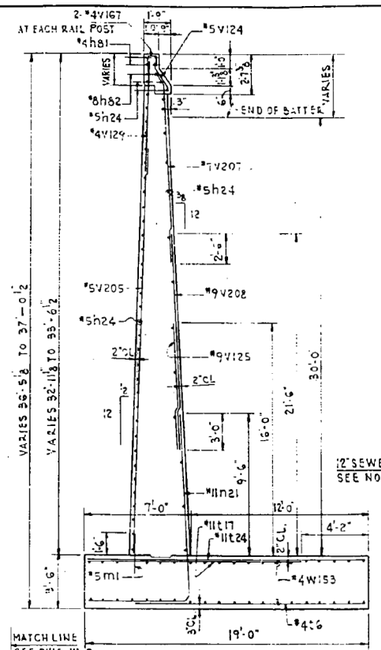
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

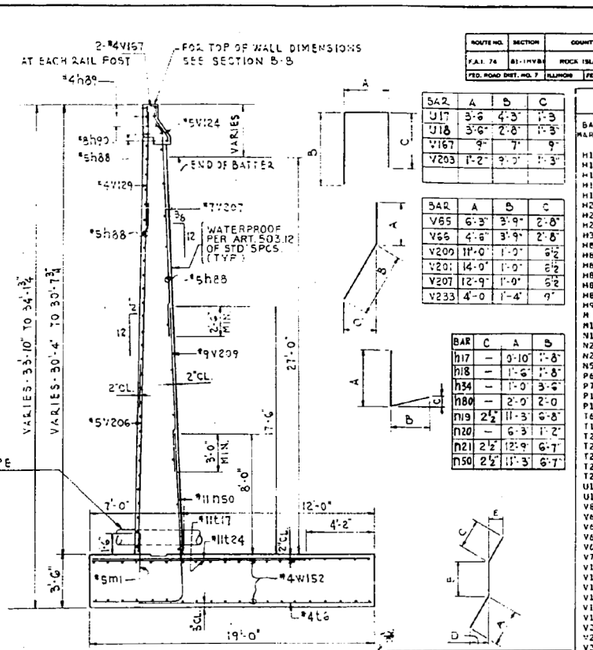
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX125 OF SX150 SHEETS

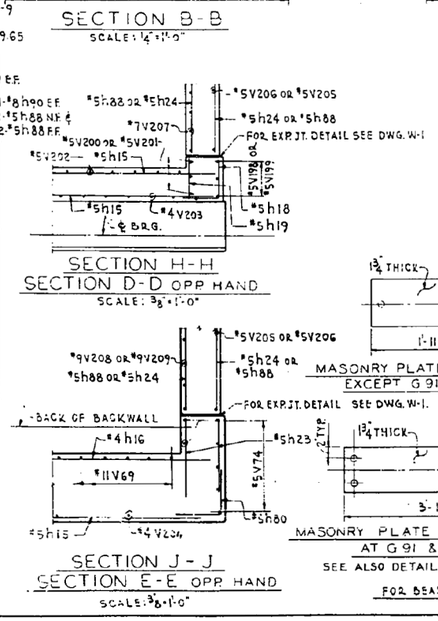
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	744
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

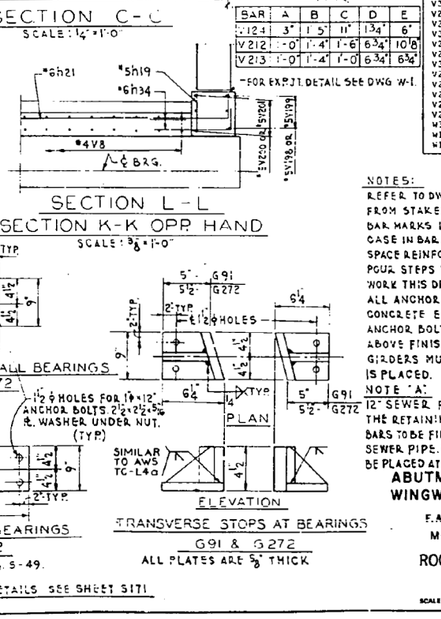
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	162
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG NO. S-50

BAR	A	B	C
U17	3'-6"	4'-3"	1'-3"
U18	3'-6"	2'-6"	1'-3"
V167	9"	7"	9"
V263	1'-2"	9'-7"	1'-3"

BAR	A	B	C
V65	6'-3"	3'-9"	2'-6"
V66	4'-6"	3'-9"	2'-6"
V209	11'-0"	1'-0"	6½"
V201	14'-0"	1'-0"	6½"
V207	12'-9"	1'-0"	5½"
V233	4'-0"	1'-4"	9"

BAR	C	A	B
h17	–	0'-10"	1'-8"
h18	–	1'-6"	1'-8"
h34	–	1'-0"	3'-6"
h80	–	2'-0"	2'-0"
h19	2½"	11'-3"	6'-8"
h20	–	6'-3"	1'-2"
h21	2½"	12'-9"	6'-7"
h50	2½"	11'-3"	6'-7"

BAR	A	B	C	D	E
V124	3"	1'-5"	11"	13¾"	6"
V212	1'-0"	1'-4"	1'-6"	6¾"	10⅛"
V213	1'-0"	1'-4"	1'-0"	6¾"	6¾"

- FOR EXP. JT. DETAIL SEE DWG. W-1.

REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	SAP	LENGTH	WEIGHT
H15	148	4	20'-0"	3700
H16	24	4	20'-0"	600
H17	12	4	20'-0"	300
H18	24	4	20'-0"	600
H19	16	4	20'-0"	400
H21	4	4	21'-3"	113
H23	84	4	3'-3"	273
H24	42	5	22'-0"	1155
H34	4	4	4'-5"	18
H80	43	5	22'-5"	1204
H81	4	4	22'-5"	90
H82	2	4	4'-0"	8
H83	12	4	20'-1"	241
H88	43	5	22'-5"	1204
H89	4	4	22'-5"	90
H90	2	8	22'-5"	90
M	24	4	2'-6"	60
N1	36	4	2'-0"	72
N19	118	11	17'-11"	2116
N20	120	11	7'-5"	891
N21	79	11	19'-4"	1528
N50	67	11	17'-1"	1145
P6	4	5	6'-7"	26
P7	36	5	8'-6"	306
P10	4	5	5'-7"	22
P11	4	5	7'-7"	30
T6	98	6	18'-8"	1830
T17	70	11	14'-9"	1033
T20	112	11	20'-2"	2259
T21	102	11	11'-0"	1122
T22	86	6	17'-0"	1462
T23	3	6	26'-3"	79
T24	72	11	19'-8"	1417
U17	29	5	9'-0"	261
U18	17	5	7'-5"	126
V8	160	4	7'-3"	1160
V65	60	7	10'-0"	600
V66	60	7	8'-3"	495
V68	120	9	7'-6"	900
V69	120	11	13'-0"	1560
V74	14	5	18'-6"	259
V124	65	5	2'-7"	169
V125	39	5	4'-1"	160
V129	59	4	4'-1"	242
V167	12	4	2'-1"	25
V178	3	5	13'-0"	39
V179	3	5	11'-0"	33
V200	3	5	12'-0"	36
V201	3	5	15'-0"	45
V202	124	4	8'-5"	1046
V203	82	4	11'-5"	937
V204	24	4	16'-11"	406
V205	11	5	11'-5"	126
V206	11	5	20'-1"	221
V217	2	5	15'-1"	30
V308	45	5	15'-1"	678
V209	67	5	15'-1"	1010
V212	2	5	9'-11"	20
V213	2	5	9'-11"	20
V233	4	5	4'-3"	17
V239	4	5	4'-3"	17
W37	84	6	25'-3"	2121
W152	40	4	17'-0"	680
W153	40	4	14'-9"	590

NOTES:
REFER TO DWG S-12 FOR LOCATION OF WORK POINTS FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
POUR STEPS MONOLITHICALLY WITH CAP.
WORK THIS DRAWING WITH DWG. S-49.
ALL ANCHOR BOLTS TO PROJECT 3¼" ABOVE FINISHED CONCRETE EXCEPT THOSE AT GR.89 & GR. 272. ANCHOR BOLTS AT GR.89 & GR. 272 TO PROJECT ¾" ABOVE FINISHED CONCRETE.
GIRDERS MUST BE PLACED BEFORE BACKFILL IS PLACED.
NOTE "A":
12" SEWER PIPE WILL BE IN PLACE BEFORE THE RETAINING WALL IS BUILT. ALL OBSTRUCTING BARS TO BE FIELD CUT AS NECESSARY TO MISS THE SEWER PIPE. FOUR ADDITIONAL #V239 BARS SHALL BE PLACED AT EACH FACE AS SHOWN IN SECTION G-G.

ABUTMENT Ⓒ – MAINLINE
WINGWALLS AND DETAILS

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 S.R.A.S.M.D.
DRAWN BY A.B.U.R.A.S.
CHECKED A.H.
IN CHARGE L.S.K.A.S.T.A.S.
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg
MODEL: 117 Contract AB

USER NAME = ksnider	DESIGNED - AWH	REVISED -
	CHECKED - AJK	REVISED -
PLOT SCALE =	DRAWN - KMS	REVISED -
PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

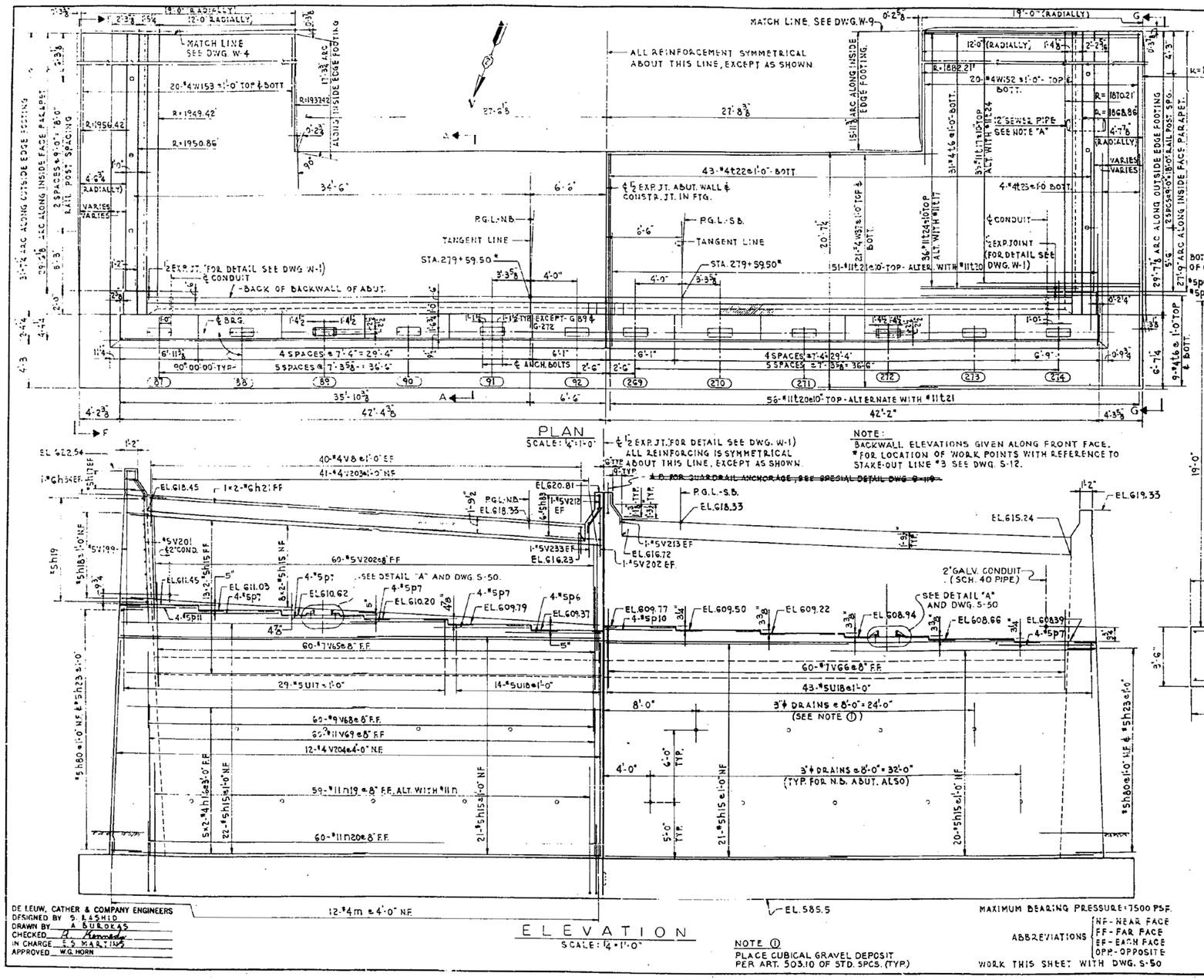
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX126 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	745
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	163
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-49



BILL OF MATERIAL **

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	819.3
REINFORCEMENT BARS	POUND	93689
CLASS A EXCAVATION FOR STRUCTURES	CU. YD.	2.216
PROTECTIVE COAT	SQ. YD.	24
ALUMINUM RAILING	LIN. FT.	61

** INCLUDES DETAILS SHOWN ON DWG. S-50 ALSO.

ABUTMENT Ⓒ - MAINLINE
PLAN, ELEVATION AND SECTION

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20
SCALE: AS NOTED DATE:
Rev. 5-22-73

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. LASHID
DRAWN BY A. BUROKAS
CHECKED A. Kennedy
IN CHARGE S.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rosters.brg
MODEL: 118 Contract AB

USER NAME = ksnider	DESIGNED - AWH	REVISED -
	CHECKED - AJK	REVISED -
PLOT SCALE =	DRAWN - KMS	REVISED -
PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX127 OF SX150 SHEETS

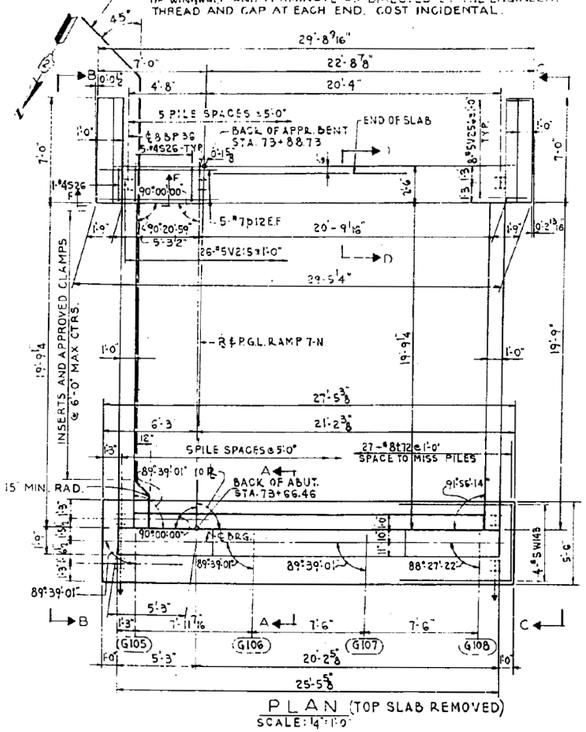
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	746
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

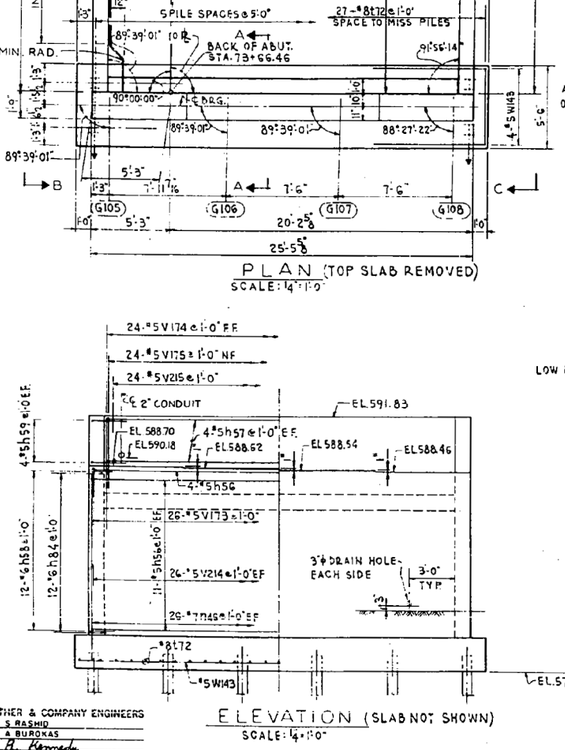
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1)VB-	ROCK ISLAND	389	164
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-54

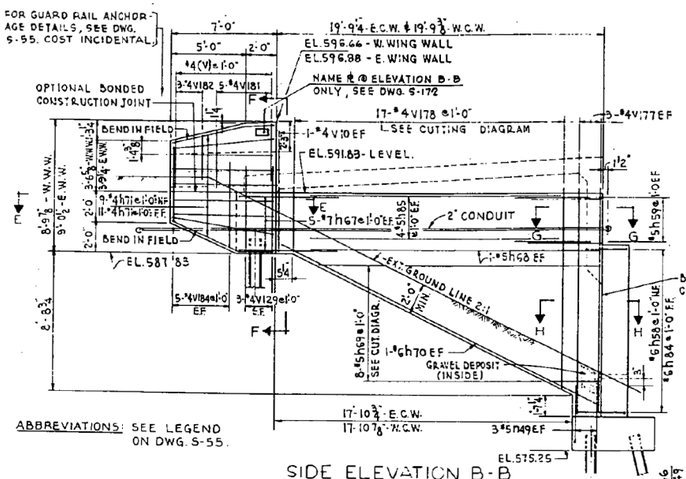
2'-0 GALVANIZED CONDUIT (SCH. 40 PIPE). EXTEND TO CLEAR END OF WINGWALL AND TERMINATE AS DIRECTED BY THE ENGINEER. THREAD AND CAP AT EACH END. COST INCIDENTAL.





DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. RASHID
DRAWN BY A. BURDKAS
CHECKED A. Klemens
IN CHARGE E. S. MARTINS
APPROVED W.G. HORN

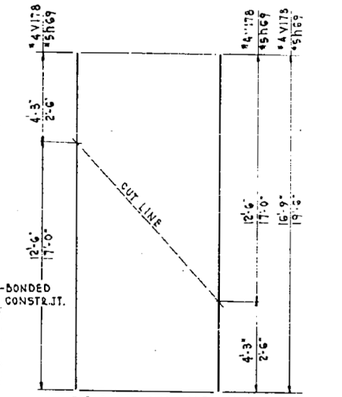
FOR GUARD RAIL ANCHORAGE DETAILS, SEE DWG. S-55. COST INCIDENTAL.



ABBREVIATIONS: SEE LEGEND ON DWG. S-55.

ANCHOR BOLT LOCATIONS SHOWN ON DWG. S-55.

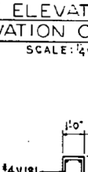
SIDE ELEVATION B-B
SIDE ELEVATION C-C OPP. HAND
SCALE: 1/4"=1'-0"

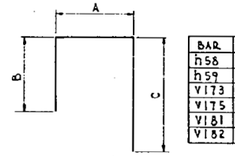


FIELD CUTTING DIAGRAM.
ORDER #4V178 AND #5h69 BARS FULL LENGTH CUT TO FIT AS SHOWN AND USE REMAINDER OF BARS IN OTHER FACE.

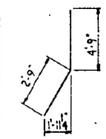
REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
H56	26	5	25- 2	
H57	8	5	23- 2	
H58	26	6	5- 3	
H59	16	5	5- 9	
H67	20	7	6- 6	
H68	4	5	17- 9	
H69	16	5	19- 6	
H70	4	6	22- 6	
H71	40	4	6- 8	
H84	24	6	3- 9	
H85	16	5	14- 9	
N46	52	7	7- 3	
N49	12	5	3-10	
P12	10	7	29- 2	
S26	27	4	12- 5	
T12	27	8	5- 2	
V10	4	4	5- 3	
V129	12	4	5- 9	
V173	26	5	5- 0	
V174	24	5	7- 6	
V175	24	5	6- 9	
V177	12	4	14- 9	
V178	34	4	16- 9	
V181	10	4	8- 9	
V182	6	4	6- 9	
V184	20	4	5- 0	
V214	52	5	7- 9	
V215	50	5	2- 6	
V256	16	5	4- 0	
W143	4	5	27- 1	

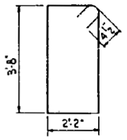




BAR	A	B	C
h58	1'-9"	0	3'-6"
h59	1'-6"	0	4'-3"
V173	2'-5"	1'-1"	1'-6"
V175	0'-9"	1'-3"	4'-9"
V181	0'-9"	4'-0"	4'-0"
V182	0'-9"	3'-0"	3'-0"

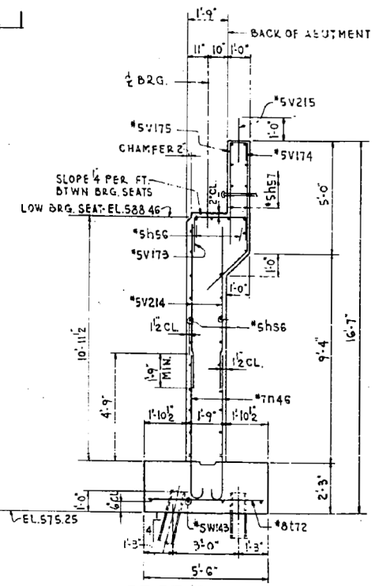


BAR V174

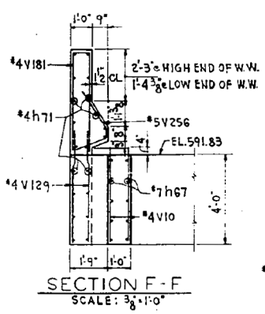


BAR S26

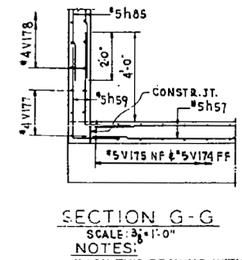
ELEVATION (SLAB NOT SHOWN)
SCALE: 1/4"=1'-0"



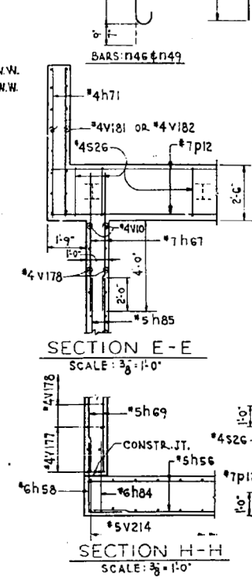
SECTION A-A
SCALE: 3/8"=1'-0"



SECTION F-F
SCALE: 3/8"=1'-0"



SECTION G-G
SCALE: 3/8"=1'-0"



SECTION E-E
SCALE: 3/8"=1'-0"

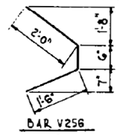
SECTION H-H
SCALE: 3/8"=1'-0"

NOTES:
WORK THIS DRAWNG WITH DRAWING S-55.
NOTES ON DWG. S-55 ALSO APPLY TO THIS DRAWNG.
BACKWALL ELEVATIONS ALONG FRONT FACE.

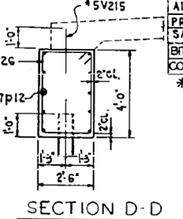
PILE DATA

LOCATION	ABUTMENT	APPR. BENT
PILE TYPE	8BP36	8BP36
CAPACITY	DRIVE TO REFUSAL	
NUMBER REQUIRED	12 *	6*
ESTIMATED LENGTH - FT.	18	31
CUT-OFF ELEVATION	576.25	588.83

DENOTES BATTER PILE IN DIRECTION OF ARROW
* - INCLUDES TEST PILE.



BAR V256



SECTION D-D
SCALE: 3/8"=1'-0"

BILL OF MATERIAL **

ITEM	UNIT	QUANTITY
CLASS "A" CONCRETE	CU. YD.	93.3
REINFORCEMENT BARS	POUND	13,480
CLASS "A" EXCAVATION FOR STRUCTURE	CU. YD.	53
FURNISHING STEEL PILES 8BP36	LIN. FT.	353
TEST PILE 8BP36	EACH	2
DRIVING STEEL PILES	LIN. FT.	353
ALUMINUM RAILING	LIN. FT.	40
PROTECTIVE COAT	SQ. YD.	15
SAND BACK FILL	CU. YD.	116
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	5
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	63

** INCLUDES DETAILS SHOWN ON DWG. S-55 ALSO.

ABUTMENT (F), (RAMP 7-N)
PLAN & ELEVATION
F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 119 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

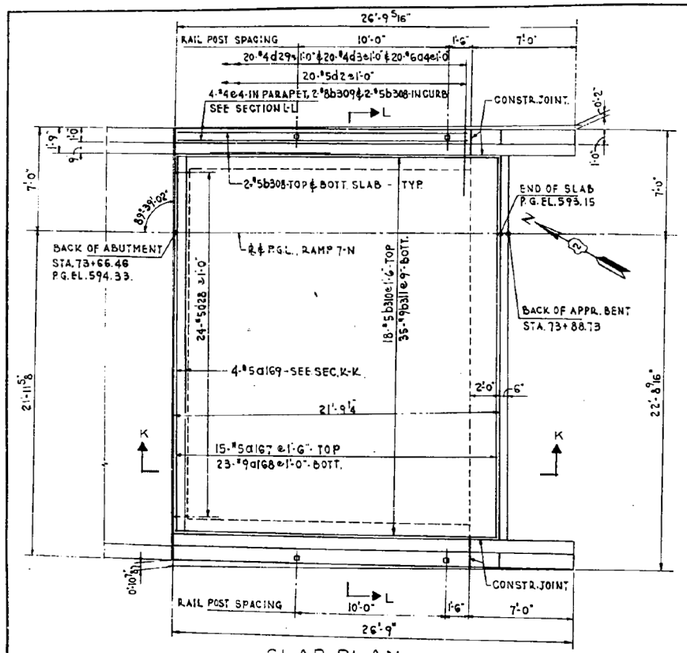
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX128 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	747
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

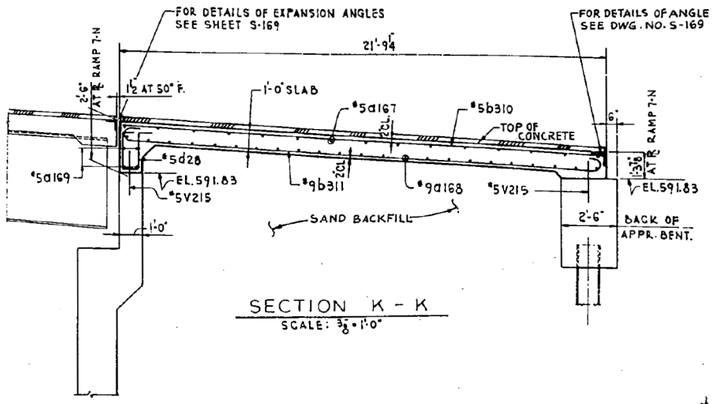
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	165
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-55

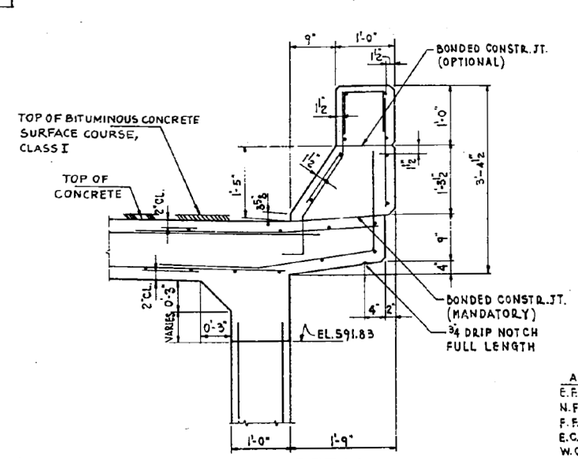


SLAB PLAN
SCALE: 1/4" = 1'-0"

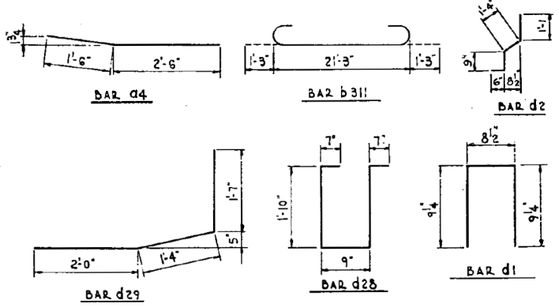


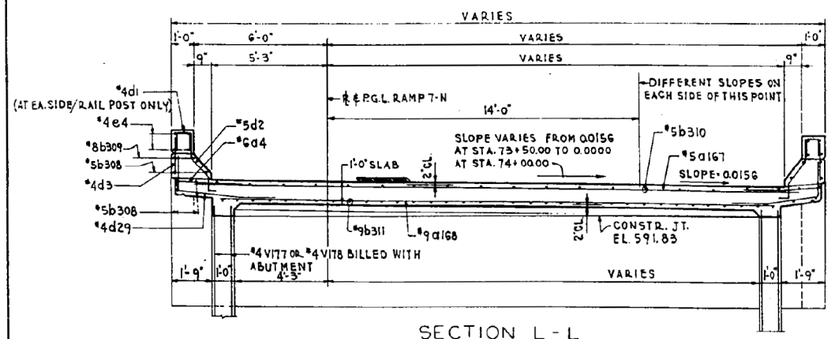
SECTION K - K
SCALE: 3/8" = 1'-0"

REINFORCING BAR LIST				
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A4	40	6	4- 0	
A167	15	5	27- 0	
A168	23	9	25- 3	
A169	4	5	25- 3	
B308	12	5	19- 5	
B309	4	5	19- 5	
B310	18	5	21- 5	
B311	35	9	23- 9	
D1	8	5	2- 3	
D2	40	5	3- 8	
D3	40	4	2- 0	
D28	24	5	5- 7	
D29	40	4	4-11	
E4	8	4	19- 6	

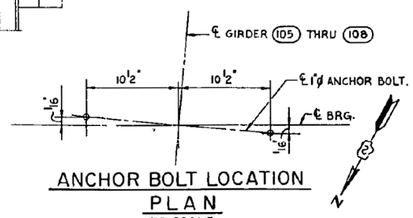


CURB DETAIL
SCALE: 1" = 1'-0"

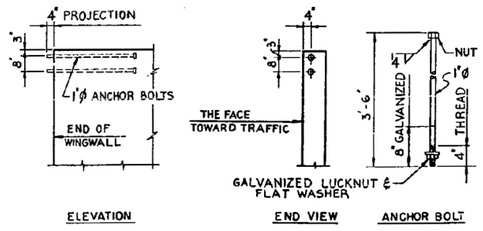




SECTION L - L
SCALE: 3/8" = 1'-0"



ANCHOR BOLT LOCATION PLAN
NO SCALE



GUARD RAIL ANCHORAGE
NO SCALE

ABBREVIATIONS
E.F. - EACH FACE.
N.F. - NEAR FACE.
F.F. - FAR FACE.
E.C.W. - EAST CURTAIN WALL.
W.C.W. - WEST CURTAIN WALL.
E.W.W. - EAST WING WALL.
W.W.W. - WEST WING WALL.

NOTES:
REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DWG. AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
POUR STEPS MONOLITHICALLY WITH ABUT. WALL.
ALL ANCHOR BOLTS TO PROJECT 3 1/4 ABOVE FINISHED CONCRETE.
WORK THIS DRAWING WITH DWG. S-54.
FOR RAIL POST DETAILS SEE DWG. S-172.

ABUTMENT (F), (RAMP 7-N) SECTIONS
F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

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

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 120 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

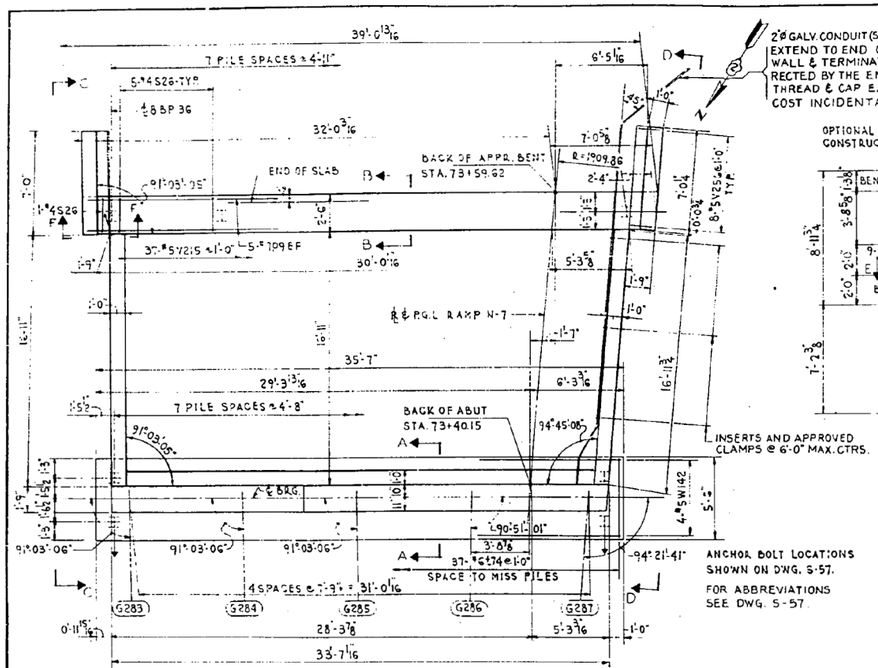
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX129 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	748
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

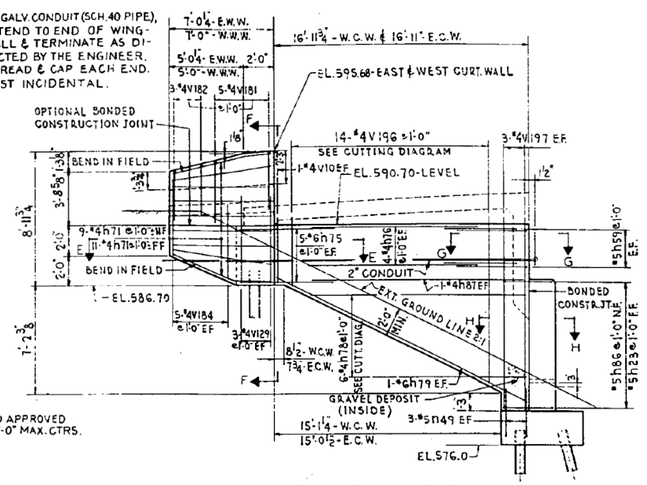
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	166
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-56



PLAN (TOP SLAB REMOVED)
SCALE: 1/4" = 1'-0"



SIDE ELEVATION C - C
SIDE ELEVATION D-D OPP. HAND
SCALE: 1/4" = 1'-0"

FIELD CUTTING DIAGRAM

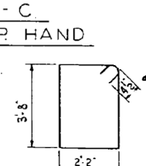
ORDER #4V196 AND #4h78 BARS FULL LENGTH. CUT TO FIT AS SHOWN AND USE REMAINDER OF BARS IN OTHER FACE.

REINFORCING BAR LIST

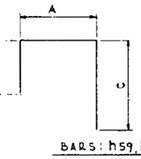
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
H23	20	5	3- 9	
H47	8	5	31- 0	
H59	16	5	5- 9	
H71	40	4	6- 8	
H72	22	5	33- 0	
H75	20	6	6- 3	
H76	16	4	12- 3	
H78	12	4	17- 6	
H79	4	6	18- 6	
H86	20	5	5- 3	
H87	4	5	14- 9	
H49	80	5	3-10	
P9	10	7	38- 3	
S26	37	4	12- 5	
T74	37	6	5- 2	
V10	4	4	4- 3	
V129	12	4	5- 9	
V173	34	5	5- 0	
V174	32	5	7- 6	
V175	32	5	6- 9	
V181	10	4	8- 9	
V182	6	4	6- 9	
V184	20	4	5- 0	
V195	68	5	8- 6	
V196	28	4	15- 3	
V197	12	4	13- 0	
V215	69	5	2- 6	
V256	16	5	4- 0	
W142	4	5	35- 3	



BAR V256

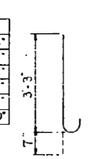


BAR S26



BAR	A	B	C
h59	1'-6"	0	4'-3"
h86	1'-9"	0	3'-6"
V173	2'-5"	1'-1"	1'-6"
V175	0'-9"	1'-3"	4'-9"
V181	0'-9"	4'-0"	4'-0"
V182	0'-9"	3'-0"	3'-0"

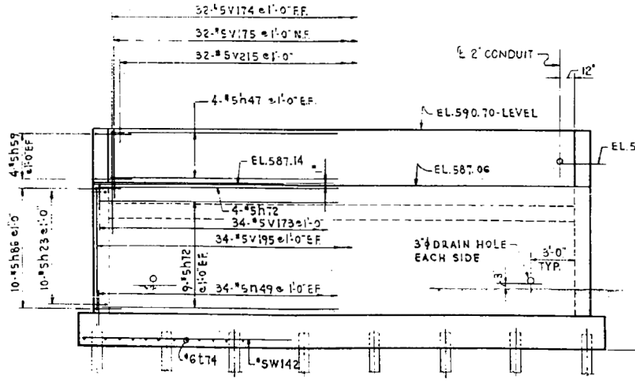
BARS: h59, h86, V173, V175, V181 & V182



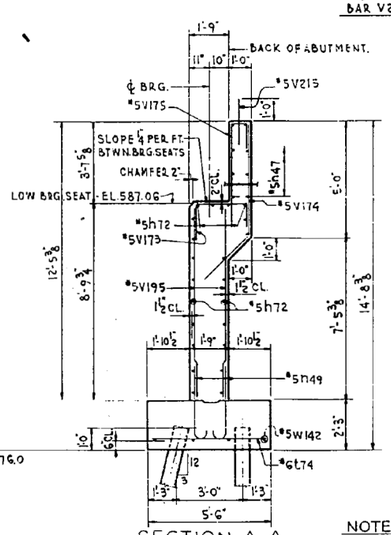
BAR h49



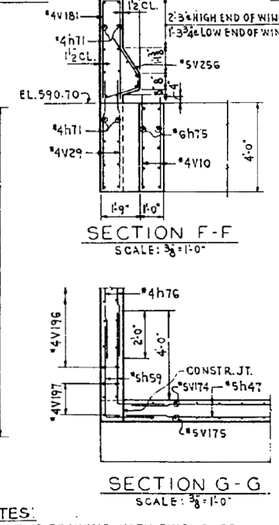
BAR V174



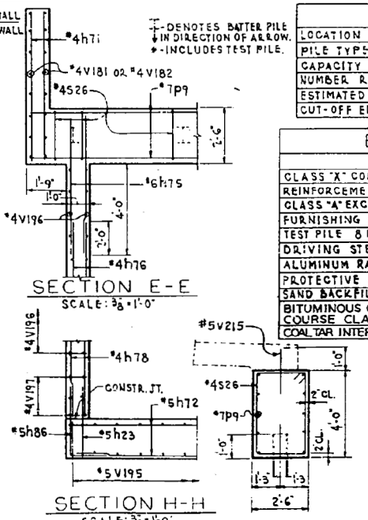
ELEVATION (SLAB NOT SHOWN)
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 3/8" = 1'-0"



SECTION F-F
SCALE: 3/8" = 1'-0"



SECTION E-E
SCALE: 3/8" = 1'-0"

† - DENOTES BATTER PILE
↓ IN DIRECTION OF ARROW.
* - INCLUDES TEST PILE.

PILE DATA

LOCATION	ABUTMENT	APPR. BENT
PILE TYPE	8 BP 36	8 BP 36
CAPACITY	DRIVE TO REFUSAL	
NUMBER REQUIRED	16 *	8*
ESTIMATED LENGTH - FT.	19	30
CUT-OFF ELEVATION	577.00	587.70

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	104.2
REINFORCEMENT BARS	POUND	13924
CLASS "A" EXCAVATION FOR STRUCTURE	CU. YD.	70
FURNISHING STEEL PILES 8 BP 36	LIN. FT.	495
TEST PILE 8 BP 36	EACH	2
DRIVING STEEL PILES	LIN. FT.	495
ALUMINUM RAILING	LIN. FT.	34
PROTECTIVE COAT	SQ. YD.	14
SAND BACKFILL	CU. YD.	135
BITUMINOUS CONCRETE SURFACE COURSE CLASS I	TON	6
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	74

SECTION G-G
SCALE: 3/8" = 1'-0"

SECTION H-H
SCALE: 3/8" = 1'-0"

SECTION B-B
SCALE: 3/8" = 1'-0"

NOTES:
WORK THIS DRAWING WITH DWG. S-57.
NOTES ON DWG. S-57 ALSO APPLY TO THIS DRAWING.
BACKWALL ELEVATIONS ALONG FRONT FACE.

ABUTMENT (G), (RAMP N-7)
PLAN & ELEVATION

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20

SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. RASHID
DRAWN BY A. BUROKAS
CHECKED B. Kennedy
IN CHARGE E. S. MARTIN
APPROVED W. G. HORN

10 81155

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 121 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

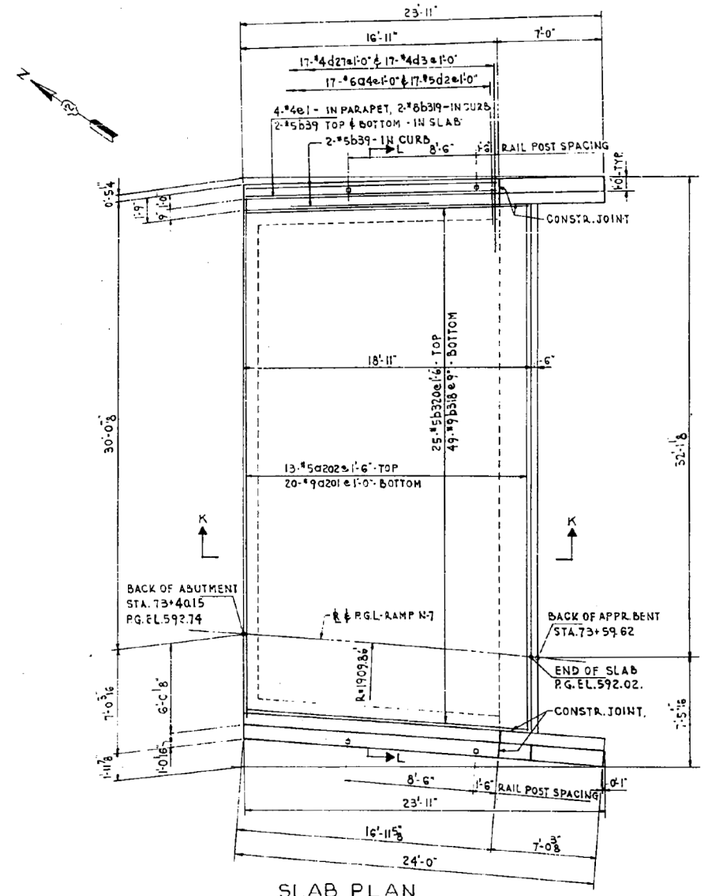
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX130 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	749
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

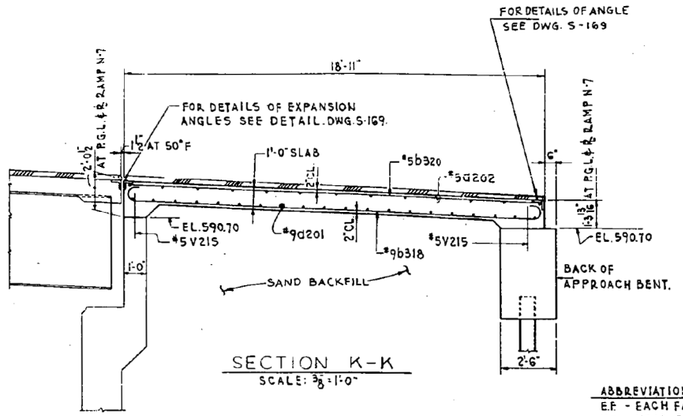
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

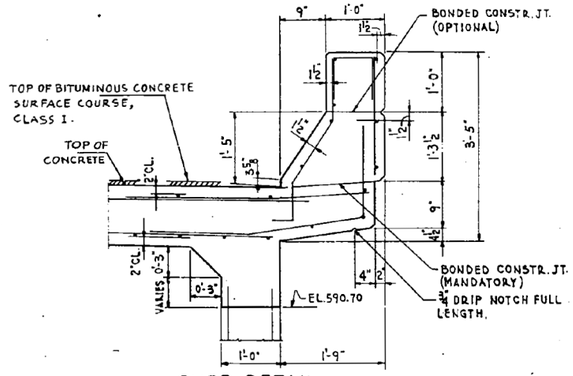
DWG. NO. S-57



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



SECTION K-K
SCALE: 3/8"=1'-0"



CURB DETAIL
SCALE: 1"=1'-0"

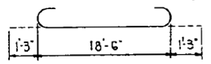
REINFORCING BAR LIST

BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A4	34	6	4- 0	
A201	20	9	35- 6	
A202	13	5	36- 3	
B39	12	5	16- 8	
B318	49	9	21- 0	
B319	4	8	16- 7	
B320	25	5	18- 7	
D1	8	4	2- 3	
D2	34	5	3- 8	
D3	34	4	2- 0	
D27	34	4	5-11	
E1	8	4	16- 8	

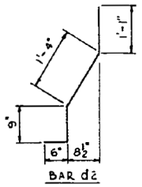
ABBREVIATIONS:
E.F. - EACH FACE
N.F. - NEAR FACE
F.F. - FAR FACE.
E.C.W. - EAST CURTAIN WALL.
W.C.W. - WEST CURTAIN WALL.
E.W.W. - EAST WING WALL.
W.W.W. - WEST WING WALL.



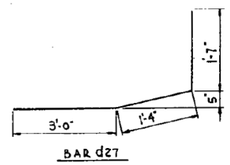
BAR a4



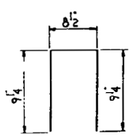
BAR b318



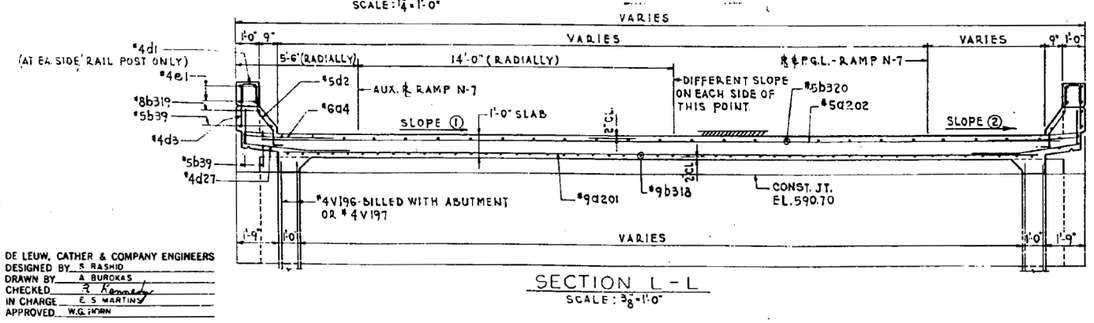
BAR d2



BAR d27

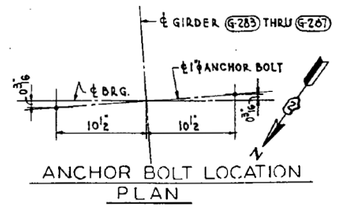


BAR d1



SECTION L-L
SCALE: 3/8"=1'-0"

CROSS SLOPES		
STATION	SLOPE ①	SLOPE ②
72+50.00	+0.0240	+0.0240
73+50.00	0.0000	0.0000
73+90.00	- 0.0157	+0.0157



ANCHOR BOLT LOCATION PLAN

NOTES:
REFER TO DWG. S-12 FOR LOCATION OF WORK POINT FROM STAKEOUT LINE.
BAR MARKS IN LOWER CASE ON DRAWING AND IN UPPER CASE IN BAR LIST REFER TO THE SAME BAR.
SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.
POUR STEPS MONOLITHICALLY WITH CAP.
ALL ANCHOR BOLTS TO PROJECT 3 1/4 ABOVE FINISHED CONCRETE.
WORK THIS DRAWING WITH DRAWING S-56.
FOR RAILL POST DETAILS SEE DWG. S-172.

ABUTMENT ⑥, (RAMP N-7)
SECTIONS & DETAILS
F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY S. RASHID
DRAWN BY A. BUROKAS
CHECKED J. Kennedy
IN CHARGE E. S. MARTINY
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

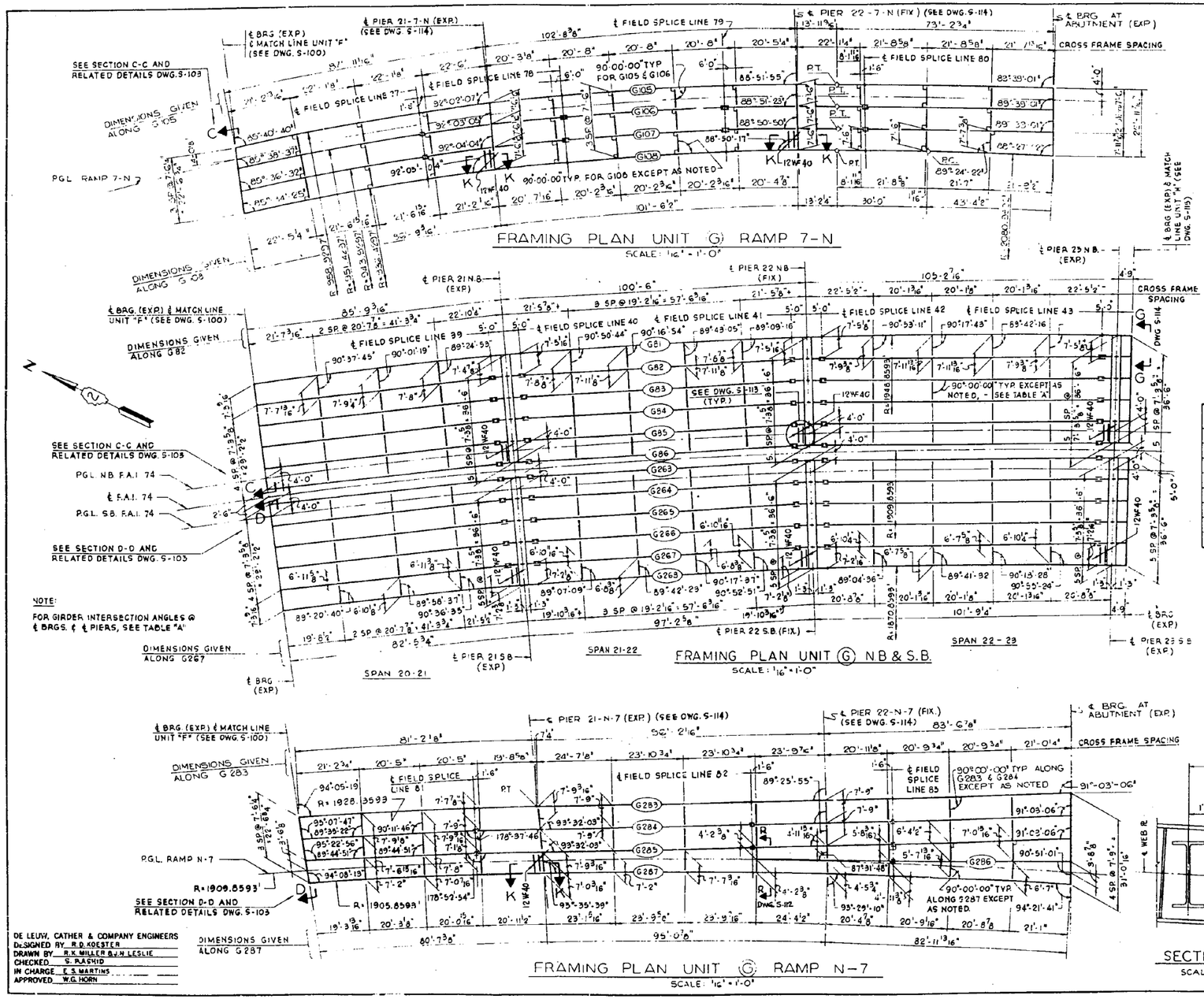
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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 122 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX131 OF SX150 SHEETS

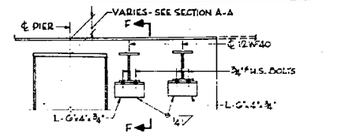
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	750
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-	ROCK ISLAND	389	178
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-109



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

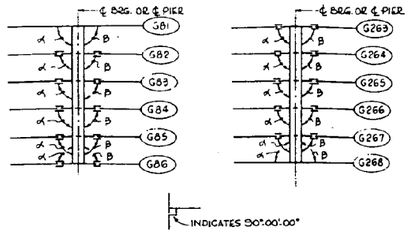


TABLE A

BRG SPAN 20-21 N.B.	PIER 21 N.B.		PIER 22 N.B.		PIER 23 N.B.	
GIRDER	β	∝	β	∝	β	∝	β
G81	89°-39'-56"	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	∝	β	∝	β	∝	β
G268	90°-27'-06"	90°-02'-45"	90°-02'-45"	90°-02'-45"	90°-02'-45"	90°-02'-45"	90°-02'-15"
G267-G263	88°-17'-44"	88°-44'-17"	88°-31'-01"	88°-31'-01"	88°-26'-51"	88°-26'-51"	89°-55'-41"

NOTES

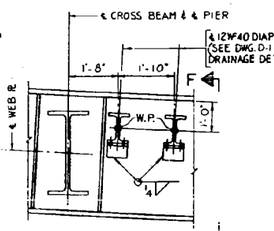
WORK THIS DWG. WITH DWGS S-110 THRU S-114

ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONAL PLANE @ 50°F TEMP.

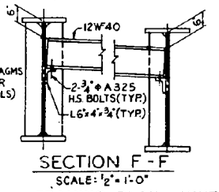
ALL ANGLES SHOWN MEASURED TO CURVED GIRDERS ARE MEASURED TO A LINE TANGENT TO ℄ WEB OF CURVED GIRDER @ POINT INDICATED.

TYPES OF BEARINGS INDICATED REFER TO MOVEMENT IN LONGITUDINAL DIRECTION ONLY. SEE BEARING DWGS. FOR ADDITIONAL DATA.

FOR GIRDER LENGTHS, SEE DWG'S. S-110, S-111 & S-112



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



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

FRAMING PLAN - UNIT "G" MAINLINE AND RAMPS 7-N & N-7

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE

FOR INFORMATION ONLY

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 123 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

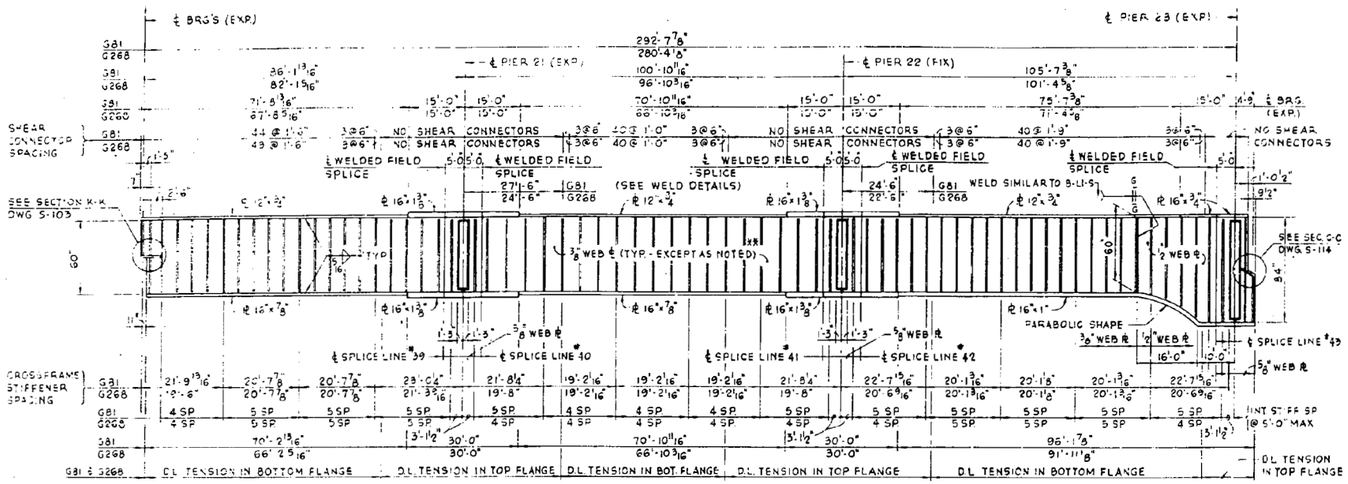
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX132 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	751
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	174
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO S-110



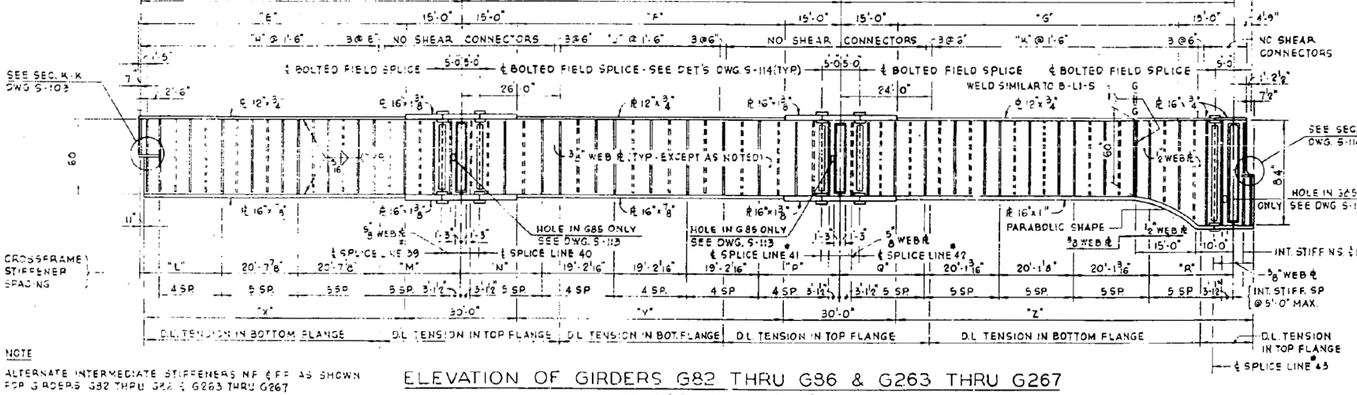
NOTE

INTERMEDIATE & CROSSFRAME STIFFENERS ON INTERIOR FACE ONLY OF GIRDERS G81 & G268

** USE 1/2" WEB ℄ WHERE SHOWN, USE 5/8" WEB ℄ IN SECTIONS OVER PIERS BETWEEN SPLICES SEE DETAIL 2 DWG S-113

ELEVATION OF GIRDERS G81 & G268

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



NOTE

ALTERNATE INTERMEDIATE STIFFENERS NF & FF AS SHOWN FOR GIRDERS G82 THRU G86 & G263 THRU G267

ELEVATION OF GIRDERS G82 THRU G86 & G263 THRU G267

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

TABLE OF DIMENSIONS AND SPACINGS

DIMENSIONS

GIRDER	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"X"	"Y"	"Z"
G81	——	——	——	——	——	——	——	——	——	——
G82	291'-5 5/8"	85'-9 5/16"	100'-6"	105'-2 7/16"	71'-4 3/16"	70'-6"	75'-2 7/16"	69'-10 5/16"	70'-6"	95'-6 5/16"
G83	290'-3 3/8"	85'-4 5/8"	100'-1 7/16"	104'-9 11/16"	70'-11 5/8"	70'-1 7/16"	74'-9 11/16"	69'-5 5/8"	70'-1 7/16"	95'-2 3/16"
G84	289'-2"	85'-0 1/8"	99'-8 1/16"	104'-4 15/16"	70'-7 1/8"	69'-8 15/16"	74'-4 5/16"	69'-1 1/8"	69'-8 15/16"	94'-9 7/16"
G85	288'-0 3/16"	84'-7 5/16"	99'-4 3/8"	104'-0 1/4"	70'-2 9/16"	69'-4 3/8"	74'-0 1/4"	68'-3 9/16"	69'-4 3/8"	94'-4 11/16"
G86	286'-10 3/8"	84'-3"	98'-11 7/8"	103'-7 1/2"	69'-10"	68'-11 7/8"	73'-7 1/2"	68'-4"	68'-11 7/8"	93'-11 5/16"
G263	286'-0 5/16"	83'-11 1/2"	98'-8 3/4"	103'-4 1/4"	69'-8 1/2"	68'-8 3/4"	73'-4 1/4"	68'-0 1/2"	68'-8 3/4"	93'-8 7/16"
G264	284'-11 1/16"	83'-7 3/8"	98'-4 1/16"	102'-11 1/8"	69'-2 3/8"	68'-4 1/16"	72'-11 1/2"	67'-8 3/8"	68'-4 1/16"	93'-3 1/16"
G265	283'-9 5/16"	83'-2 7/8"	97'-11 1/16"	102'-6 3/4"	68'-9 7/8"	67'-11 1/16"	72'-6 3/4"	67'-3 7/8"	67'-11 1/16"	92'-11 9/16"
G266	282'-7 7/16"	82'-10 5/8"	97'-7 1/8"	102'-2"	68'-5 5/8"	67'-7 1/8"	72'-2"	66'-11 5/8"	67'-7 1/8"	92'-6 7/16"
G267	281'-5 5/8"	82'-5 3/4"	97'-2 5/8"	101'-9 1/4"	68'-0 3/4"	67'-2 5/8"	71'-9 1/4"	66'-6 3/4"	67'-2 5/8"	92'-1 3/4"
G268	——	——	——	——	——	——	——	——	——	——

GIRDER	SHEAR CONNECTORS "H"	"J"	"K"	CROSSFRAME STIFFENER SPACING "L"	"M"	"N"	"P"	"Q"	"R"
G81	——	——	——	——	——	——	——	——	——
G82	42	42	40	21'-7 7/16"	22'-10 1/4"	21'-5 5/8"	21'-5 5/8"	22'-5 1/2"	22'-5 1/2"
G83	42	42	40	21'-4 9/16"	22'-8 5/16"	21'-3 3/8"	21'-3 3/8"	22'-3 7/8"	22'-3 7/8"
G84	42	42	40	21'-2"	22'-6 3/8"	21'-1 3/8"	21'-1 3/8"	22'-0 3/4"	22'-0 3/4"
G85	42	42	40	20'-11 3/8"	22'-4 7/16"	20'-11 6"	20'-11 6"	21'-10 1/8"	21'-10 1/8"
G86	41	42	40	20'-8 3/4"	22'-2 1/2"	20'-8 1/16"	20'-8 1/16"	21'-8"	21'-8"
G263	41	42	40	20'-7"	22'-1 5/16"	20'-7 1/16"	20'-7 1/16"	21'-6 3/8"	21'-6 3/8"
G264	41	41	40	20'-4 5/16"	21'-11 5/16"	20'-5"	20'-5"	21'-4"	21'-4"
G265	41	41	39	20'-1 3/8"	21'-9 3/8"	20'-2 3/4"	20'-2 3/4"	21'-1 5/8"	21'-1 5/8"
G266	40	41	39	19'-11 1/16"	21'-7 1/8"	20'-0 1/2"	20'-0 1/2"	20'-11 1/4"	20'-11 1/4"
G267	40	41	39	19'-8 1/2"	21'-5 1/2"	19'-10 3/16"	19'-10 3/16"	20'-8 7/8"	20'-8 7/8"
G268	——	——	——	——	——	——	——	——	——

TABLE OF PROPERTIES - INTERIOR GIRDERS

LOCATION	℄ BRG	0.40 SPAN 20-21	PIER 21	0.50 SPAN 21-22	PIER 22	0.60 SPAN 22-23	PIER 23
STEEL SECTION							
Is	27512	27512	48192	27512	48192	27512	65156
Sts	825	825	1606	825	1606	825	1500
Sbs	1032	1032	1606	1032	1606	1032	1608
COMPOSITE SECTION							
Ic	62445	62445	——	62445	——	67012	——
Stc	4640	4640	——	4640	——	4670	——
Sbc	1320	1320	——	1320	——	1415	——

LEGEND

Is - MOMENT OF INERTIA OF STEEL SECTION.
Sts - SECTION MODULUS AT TOP OF STEEL SECTION.
Sbs - SECTION MODULUS AT BOTTOM OF STEEL SECTION.
Ic - MOMENT OF INERTIA OF COMPOSITE SECTION. (WITH 8" SLAB)
Stc - SECTION MODULUS AT TOP OF STEEL, COMPOSITE SECTION.
Sbc - SECTION MODULUS AT BOTTOM OF STEEL, COMPOSITE SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
3/4"ø x 5" STUD SHEAR CONNECTORS	EACH	4954

TABLE OF MOMENTS (FT. KIPS) INTERIOR GIRDER G82

LOADING	0.40 SPAN 20-21	PIER 21	0.50 SPAN 21-22	PIER 22	0.60 SPAN 22-23	PIER 23
DEAD LOAD	513	-900	236	-1138	656	- 335
S.D.L.	171	- 231	115	- 296	218	- 101
LIVE LOAD	886	- 574	641	- 693	892	- 198
IMPACT	214	- 170	183	- 194	247	- 48
TOTAL COMP.	1073	——	939	——	1357	——
TOTAL STEEL	513	- 875	236	- 2317	656	- 682

TABLE OF REACTIONS (KIPS) INTERIOR GIRDER G82

LOADING	℄ E BRG	℄ PIER 21	℄ PIER 22	℄ PIER 23
DEAD LOAD	32	100	112	127
S.D.L.	10	30	33	39
LIVE LOAD	45	66	72	79
IMPACT	14	20	20	19
TOTAL	101	216	237	264

NOTES

WORK THIS DWG. WITH DWGS S-109, ℄ S-111 THRU S-114
ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONTAL PLANE @ 50°F TEMP.
ALL STRUCTURAL STEEL TO BE A.S.T.M. DESIGNATION A-36
FOR SHOP SPLICE DETAIL ℄ WELDED FIELD SPLICE DETAIL, SEE DWG S-118.
FOR BOLTED FIELD SPLICE DETAIL, SEE DWG S-114
FOR INTERMEDIATE STIFFENER ℄ DETAIL, SEE DWG. S-112
ALL BRG. STIFFENER ℄'S TO BE SET VERTICAL.
FOR TOP OF WEB ELEVATIONS, SEE DWG. S-112.
FOR SHEAR CONNECTOR DETAILS, SEE DWG S-111.

DEEMUW, CATHER & COMPANY ENGINEERS
DESIGNED BY MY HUO
DRAWN BY J.N.LESLIE
CHECKED
IN CHARGE E.S.MARTINS
APPROVED W.G. HURN

GIRDER ELEVATIONS G-81 THRU G-86 AND G-263 THRU G-268

F.A.I.74-SECTION 81-1HVB-1
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

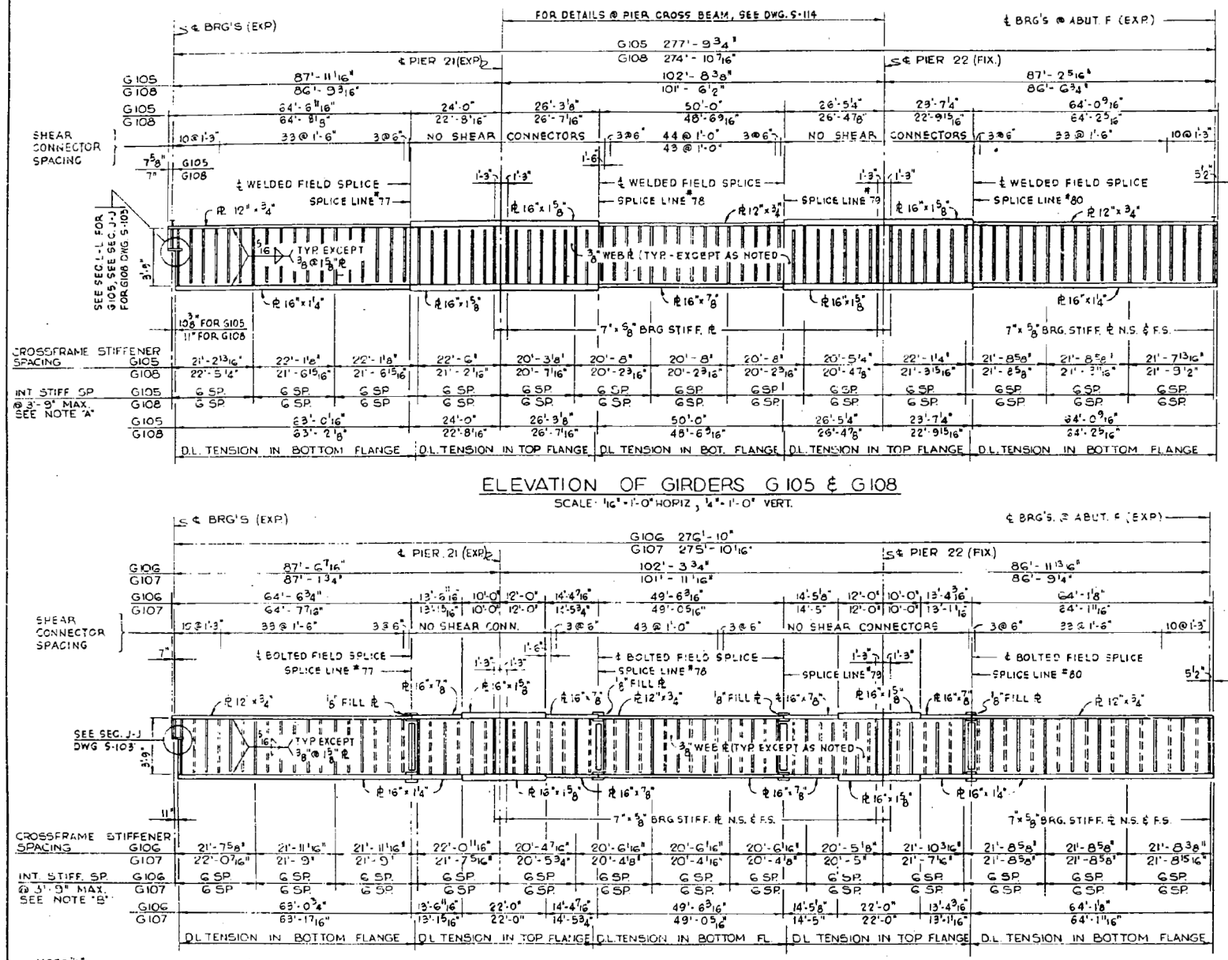
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		CHECKED - AJK	REVISED -
MODEL: 124 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX133 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	752
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ELEVATION OF GIRDERS G105 & G108

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

ELEVATION OF GIRDERS G106 & G107

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

NOTE "A"

PLACE STIFF. ℄'S ON INTERIOR FACE ONLY OF G105 & G108.

NOTE "B"

ALTERNATE INTERMEDIATE STIFF. ℄'S N.S. & F.S. AS SHOWN FOR G106 & G107

NOTE "C"

CUT ANGLE ENDS @ 45°± AS SHOWN TO FACILITATE ECONOMICAL USE OF CONN. ℄'S. PROVIDE A MIN. OF 15" OF 1/4" FILLET WELD @ EACH CONNECTION, EXCEPT AS SHOWN OTHERWISE.

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
3/4"ø x 5" STUD SHEAR CONNECTORS	EACH	1695

TOP OF WEB ELEVATIONS

LOCATION	℄ BEARING 20-21	℄ SPLICE 77	℄ PIER 21	℄ SPLICE 78	℄ SPLICE 79	℄ PIER 22	℄ SPLICE 80	℄ BEARING @ ABUTMENT
G105	604.297	603.610	602.968	602.108	599.835	598.695	597.135	593.683
G106	604.072	603.382	602.750	601.876	599.612	598.164	596.948	593.600
G107	603.848	603.155	602.532	601.649	599.388	597.936	596.763	593.517
G108	603.622	602.929	602.317	601.424	599.167	597.711	596.573	593.400

INTERIOR GIRDER MOMENT TABLE

	0.4 SPAN 20-21	PIER 21	0.5 SPAN 21-22	PIER 22	0.6 SPAN 22-23
I_S (IN^4)	16819	31057	14591	31057	16819
I_C (IN^4)	42678	—	34597	—	42678
S_S (IN^3)	935	1290	712	1290	935
S_C (IN^3)	1186	—	920	—	1186
℄ (K/')	0.954	0.954	0.954	0.954	0.954
M℄ (1K)	490	-968	284	-960	482
f_S℄ (KSI)	6.3	9.0	4.8	8.9	6.2
S℄ (K/')	0.356	0.956	0.356	0.356	0.356
M_S℄ (1K)	208	-299	167	-298	204
M_L℄ (1K)	719	-580	662	-576	711
M$_{IMP}$ (1K)	203	-163	187	-163	200
TOTAL (1K)	1130	-1042	1016	-1037	1115
f_S℄ (KSI)	11.5	9.7	13.3	9.7	11.3
f_S TOTAL (KSI)	17.8	18.7	18.1	18.6	17.5
VR (K)	48.1	—	49.3	—	47.9

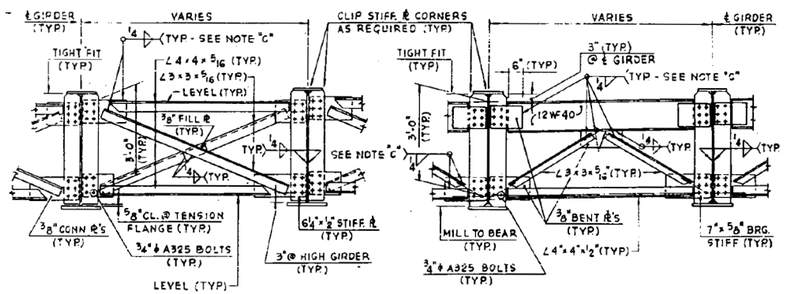
INTERIOR GIRDER REACTION TABLE

	E. BRG	PIER 21	PIER 22	ABUT
R℄ (K)	31	102	101	30
Rs℄ (K)	12	37	37	12
R$_L$℄ (K)	46	67	67	46
Imp (K)	13	19	19	13
R TOTAL (K)	102	225	224	101

I_S AND S_S ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION.

I_C AND S_C ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING f_S

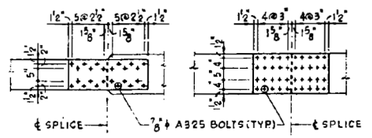
VR IS THE MAXIMUM ℄ + IMPACT SHEAR RANGE



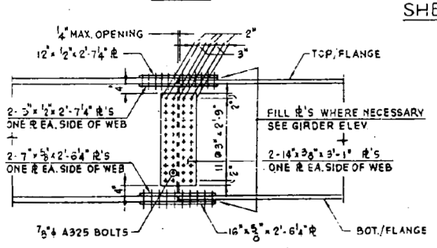
INTERMEDIATE CROSS FRAME DETAIL

(RAMPS N-7 & 7-N EXCEPT WHERE NOTED-SEE DWG. S-109)

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



TOP FLANGE — PLAN — BOT. FLANGE



FIELD SPLICE DETAIL

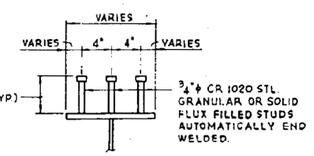
(RAMPS N-7 & 7-N, SPLICE LINES #77 THRU #83)

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

END CROSSFRAME DETAIL

(RAMPS N-7 & 7-N)

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



SHEAR CONNECTOR DETAIL

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

NOTES

WORK THIS DWG. WITH DWGS. S-106 & S-112 FOR BRG. STIFF. DETS., SEE END CROSS FRAME DET. ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONTAL PLANE @ 50°F TEMP. ALL STRUCTURAL STEEL TO BE A.S.T.M. A-36 FOR INTERMEDIATE STIFF ℄ DETAILS, SEE DWG. S-112.

GIRDER ELEVATIONS G-105 THRU G-108 (RAMP 7-N)

F.A.I. 74 - SECTION 81-1HVB-1
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	389	175
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG. NO. S-111

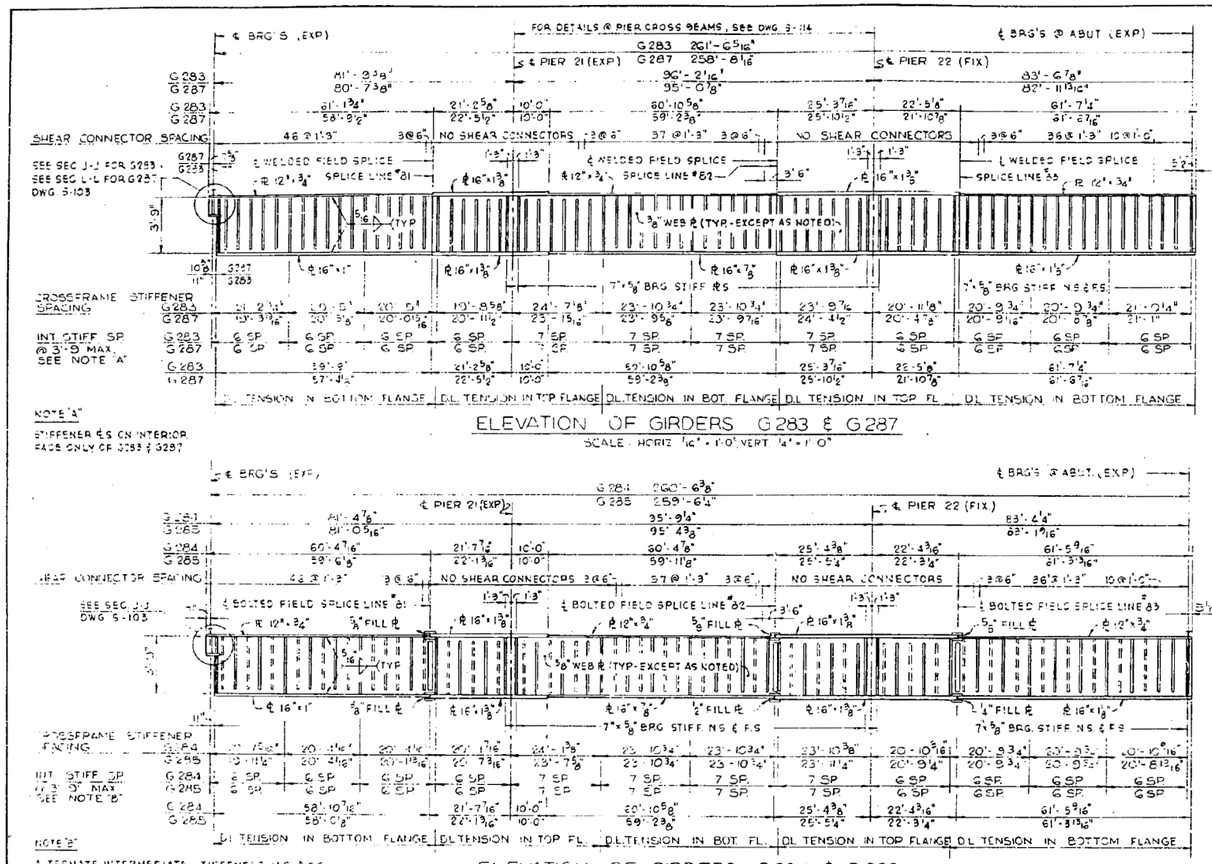
benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rosters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE REMOVAL PLANS EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
		CHECKED - AJK	REVISED -		
MODEL: 125 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -		SHEET NO. SX134 OF SX150 SHEETS
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	753
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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NOTE 'A'
STIFFENER ℄S ON INTERIOR FACE ONLY OF G283 & G287

ELEVATION OF GIRDERS G283 & G287

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

NOTE 'B'
ALTERNATE INTERMEDIATE STIFFENERS N.S & F.S AS SHOWN FOR GIRDERS G284 THRU G286

ELEVATION OF GIRDERS G284 & G285

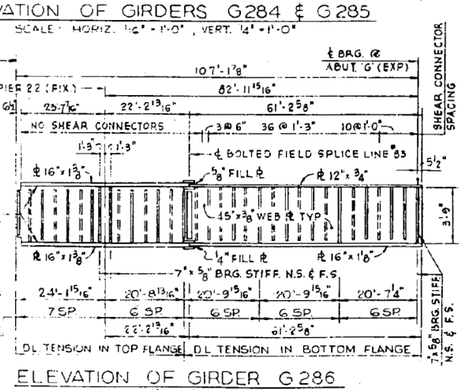
SCALE: HORIZ. 1/16" = 1'-0", VERT. 1/4" = 1'-0"

COMPRESSION FLANGE
SEE NOTE 'C'
SOLID STIFF ℄
CORNER (TYP.)
4"x 5/16" STIFF ℄
3/8" CL
SEE NOTE 'C'
TENSION FLANGE

INTERMEDIATE STIFF DETAIL

NO SCALE

NOTE 'C'
3/8" CL @ TENSION FLANGE WELD @ COMPRESSION FLANGE. FOR LIMITS OF TENSION & COMPRESSION IN FLANGES SEE GIRDER ELEVATIONS DWG. S-110, S-111 & S-112. WHERE STIFF. INTERFERES WITH FIELD FLANGE SPLICE, CUT STIFF. AS REQ'D. AT SPECIAL LOCATIONS NEAR BEARINGS, WHERE STIFF. ARE PLACED IN PAIRS, SUBSTITUTE TIGHT FIT FOR WELD @ COMPRESSION FLANGE.



ELEVATION OF GIRDER G286

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

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

INTERIOR GIRDER MOMENT TABLE

	℄ SPAN 20-21	℄ PIER 21	℄ SPAN 21-22	℄ PIER 22	℄ SPAN 22-23
I_s (IN⁴)	15395	26511	14591	26511	16135
I_c (IN⁴)	37380	—	34597	—	40072
S_s (IN³)	785	1110	712	1110	813
S_c (IN³)	1010	—	918	—	1072
℄ (K/I)	0.980	0.980	0.980	0.980	0.980
M ℄ (IK)	450	-811	287	-342	487
f_s ℄ (K.S.I.)	6.9	8.8	5.0	9.1	7.1
S ℄ (K/I)	0.356	0.356	0.356	0.356	0.356
M_S ℄ (IK)	184	-247	157	-254	195
M ℄ (IK)	687	-506	657	-512	704
$M_{IMP.}$ (K)	194	-142	135	-144	198
TOTAL (IK)	1065	-895	999	-910	1097
f_s ℄ (K.S.I.)	12.7	9.7	13.1	9.8	12.3
f_s TOTAL (KSI)	19.6	18.5	18.1	18.9	19.4
VR (K)	48.5	—	50.1	—	48.9

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	176
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT # 74		

DWG NO. S-112

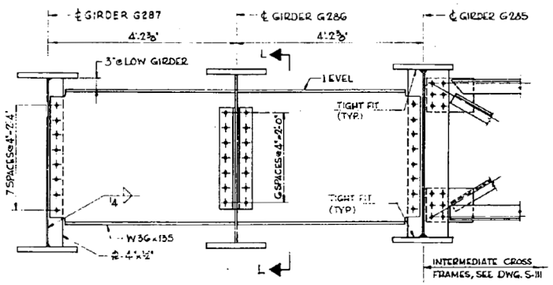
INTERIOR GIRDER REACTION TABLE

	E. BRG.	PIER 21	PIER 22	ABUT.
R ℄ (K)	30	96	98	31
R_S ℄ (K)	11	34	35	12
R L_L (K)	48	66	66	48
I mp (K)	13	19	19	13
R TOTAL (K)	102	215	218	104

I_S AND S_S ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION.

I_C AND S_C ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING f_S

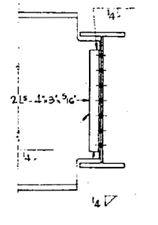
VR IS THE MAXIMUM ℄ + IMPACT SHEAR RANGE



SECTION R-R

(@ RAMP N-7)

SCALE: 3/32"=1'-0"



SECTION L-L

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



DETAIL 'A'

NO SCALE

TOP OF WEB ELEVATIONS*

* SEE DETAIL 'A'

LOCATION	℄ BEARING 20-21	℄ SPLICE 39	℄ PIER 21	℄ SPLICE 40	℄ SPLICE 41	℄ PIER 22	℄ SPLICE 42	℄ SPLICE 43	℄ PIER 23	℄ BEARING 23-24
G81	603.908	605.077	605.162	605.247	606.833	606.923	607.013	608.714	608.716	608.717
G82	603.492	604.591	604.676	604.761	606.345	606.436	606.527	608.249	608.276	608.302
G83	603.077	604.175	604.260	604.346	605.929	606.020	606.111	607.833	607.860	607.886
G84	602.661	603.758	603.844	603.930	605.513	605.604	605.695	607.415	607.443	607.470
G85	602.246	603.344	603.430	603.516	605.098	605.189	605.281	606.999	607.027	607.054
G86	601.830	602.939	603.026	603.113	604.695	604.787	604.879	606.595	606.617	606.638
G263	602.210	603.327	603.413	603.500	605.082	605.173	605.265	606.981	607.012	607.042
G264	601.933	603.043	603.131	603.219	604.799	604.892	604.984	606.701	606.734	606.765
G265	601.657	602.765	602.852	602.940	604.519	604.612	604.705	606.421	606.456	606.488
G266	601.380	602.487	602.575	602.663	604.241	604.334	604.428	606.144	606.178	606.210
G267	601.090	602.209	602.297	602.386	603.963	604.056	604.150	605.866	605.900	605.933
G268	600.735	601.999	602.087	602.176	603.753	603.847	603.941	605.635	605.646	605.656

LOCATION	℄ BEARING 20-21	℄ SPLICE 81	℄ PIER 21	℄ SPLICE 82	NORTHERNMOST DIAPHRAGM	℄ PIER 22	℄ SPLICE 83	℄ BEARING @ ABUTMENT		
G283	600.381	599.671	599.225	597.219	—	596.236	595.219	592.218	—	—
G284	600.137	599.438	599.028	596.974	—	596.036	595.016	592.165	—	—
G285	599.954	599.255	598.832	596.764	—	595.841	594.859	592.115	—	—
G286	—	—	—	—	596.666	595.731	594.775	592.067	—	—
G287	599.771	599.139	598.656	598.625	—	595.627	594.732	592.020	—	—

NOTES

WORK THIS DWG. WITH DWGS. S-109 & S-111

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

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

FOR CROSS FRAME DETAILS & SHEAR CONNECTOR DETAILS, SEE DWG. S-111

FOR BOLTED FIELD SPLICE DETAIL, SEE DWG S-111.

FOR WELDED FIELD SPLICE DETAIL, SEE DWG S-116.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
3/4"ϕ x 5" STUD SHEAR CONNECTORS	EACH	1741

GIRDER ELEVATIONS G-283 THRU G-287 (RAMP N-7)

F.A.I. 74 - SECTION 81-1HVB-1

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265 + 20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 126 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

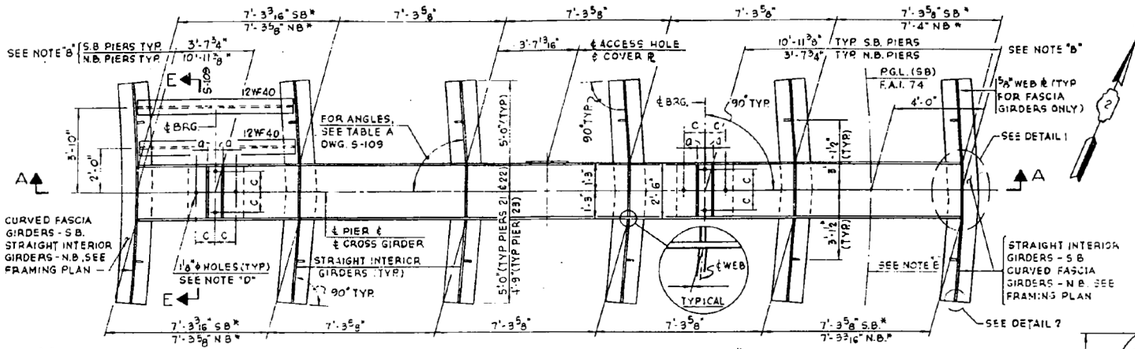
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX135 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	754
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB &	ROCK ISLAND	389	177
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-113

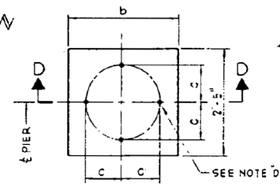


SECTIONAL PLAN

PIER 21 & 22 SHOWN, PIER 23 SIMILAR (SEE SECTION C-C)
GIRDER SKEW & RADII SHOWN DISTORTED - NO SCALE

*DIMENSIONS GIVEN TO LINE LABELED "℄ GIRDER" IN DETAIL 2

NOTE "D"
1⅛" ϕ HOLES FOR 1" ϕ A325 H.S. BOLTS. WASHERS UNDER HEAD (SNUG TIGHT)



PLAN - SOLE PLATE

SCALE: ¾" = 1'-0"



SECTION D-D

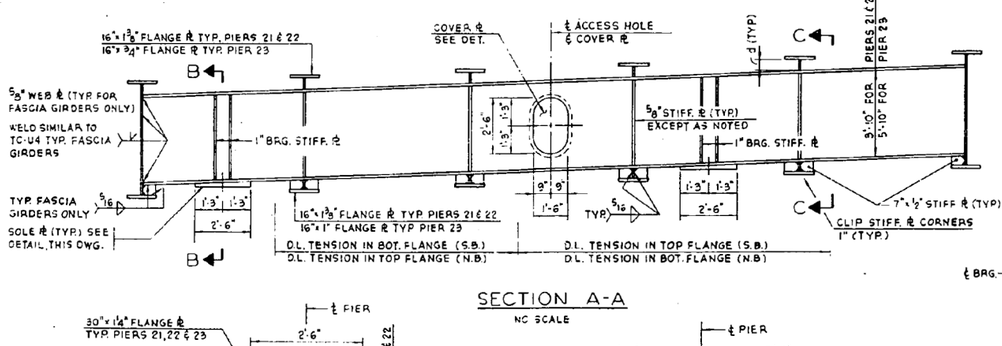
SCALE: ¾" = 1'-0"

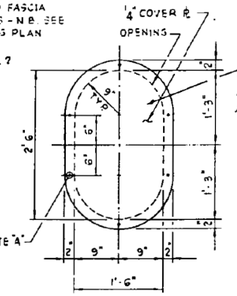
ITEM	PIERS 21				PIERS 22				PIERS 23			
	N.B.		S.B.		N.B.		S.B.		N.B.		S.B.	
	E	W	E	W	E	W	E	W	E	W	E	W
a	5"	8"	8"	5"	5"	9 1/2"	9 1/2"	5"	6"	9 3/8"	9 3/8"	6"
b	1'-11"	2'-4"	2'-4"	1'-11"	1'-11"	2'-6"	2'-6"	1'-11"	2'-1"	2'-7"	2'-7"	2'-1"
l_1	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	2 1/16"	2 1/16"	1 7/8"
l_2	3 3/16"	3 1/2"	2 15/16"	2 3/4"	3 3/16"	3 9/16"	3"	2 3/4"	3 5/16"	3 13/16"	3 1/4"	2 13/16"
c	7 5/8"	10 1/2"	10 1/2"	7 5/8"	7 5/8"	12 3/4"	12 3/4"	7 5/8"	8 5/8"	11 7/8"	11 7/8"	8 5/8"

TABLE I

LOCATION	GB1	GB2	GB3	GB4	GB5	GB6	G263	G264	G265	G266	G267	G268
PIERS 21, 22	6"	5 5/16"	5 7/16"	5 9/16"	5 11/16"	6"	6"	5 13/16"	5 5/8"	5 1/2"	5 5/16"	6"
PIER 23	6"	5 3/4"	5 13/16"	5 13/16"	5 7/8"	6"	6"	5 15/16"	5 7/8"	5 13/16"	5 3/4"	6"

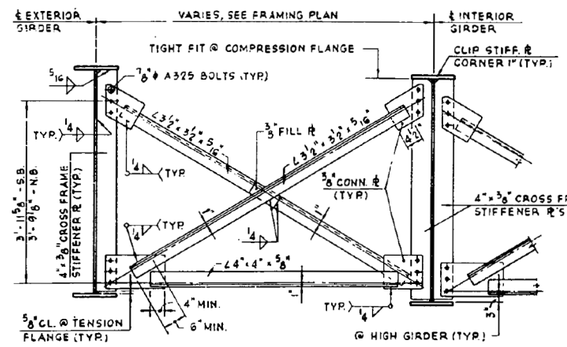
DIMENSION "d"





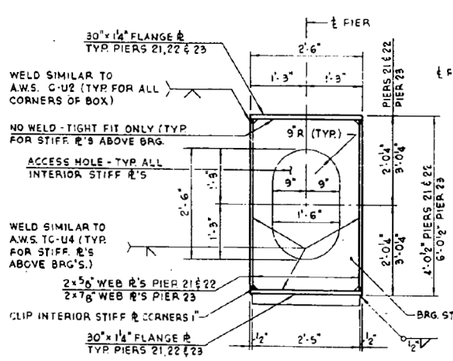
COVER PLATE DETAIL

SCALE: 1" = 1'-0"



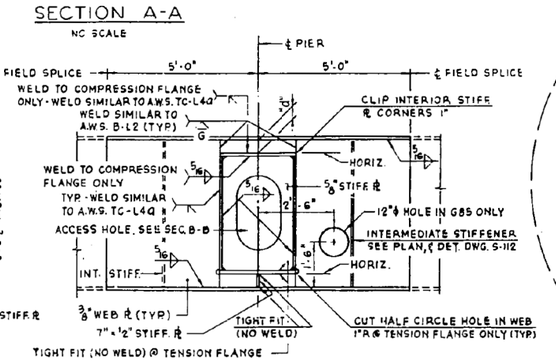
INTERMEDIATE CROSS FRAME DETAIL

SCALE: ¾" = 1'-0"



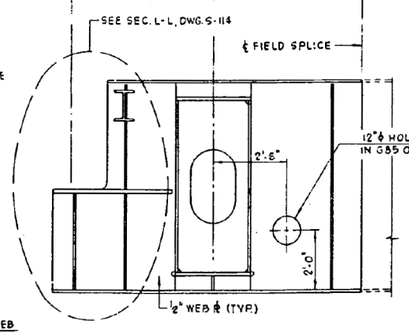
SECTION B-B

NO SCALE



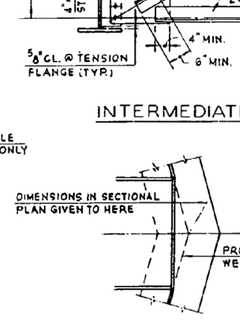
SECTION C-C

(TYPICAL FOR INTERIOR GIRDERS PIERS 21 & 22)
SCALE: ½" = 1'-0"



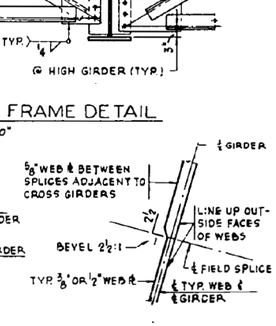
SECTION C-C

(TYPICAL FOR INTERIOR GIRDERS PIER 23 - SIMILAR TO SEC. C-C FOR PIERS 21 & 22 EXCEPT AS NOTED OR SHOWN.
SCALE: ½" = 1'-0"



DETAIL 1

FOR STRAIGHT GIRDERS ONLY
NO SCALE



DETAIL 2

(FOR EXTERIOR GIRDERS ONLY)
NO SCALE

NOTES:
WORK THIS DWG. WITH DWGS. S-109 THRU S-113
ALL STIFF PL'S & GIRDER WEBS TO BE VERTICAL.
FOR TOP OF WEB ELEVATIONS, SEE DWG. S-112
FOR WELDED FIELD SPLICE DETAILS, SEE DWG. S-118.

CROSS GIRDERS AT PIERS 21, 22 & 23 (NB & S.B.)

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

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

NOTE "A"
⅜"ϕ THREADED STUDS WITH WASHERS & NUTS. WELD STUDS TO CROSS GIRDER PL & DRILL HOLES IN COVER PL TO ACCEPT STUDS.

NOTE "B"
BEARINGS & P.G.L. SHOWN CORRECT POSITION FOR S.B. PIERS ONLY.

NOTE "C"
FOR LOCATION WITH RESPECT TO P.G.L. & FOR DIMENSIONS ALONG ℄ PIER, SEE FRAMING PLAN DWG. S-109

10 9155

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

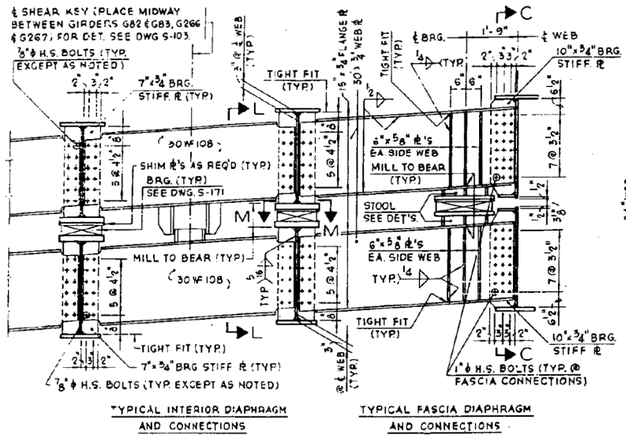
FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 127 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX136 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	755
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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"TYPICAL INTERIOR DIAPHRAGM AND CONNECTIONS

TYPICAL FASCIA DIAPHRAGM AND CONNECTIONS

SECTION G-G

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

NOTE:
CUT CROSS-GIRDER ON ONE SIDE OF WEB ONLY @ FASCIA CONN. ℄ ONLY.

SECTION C-C

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

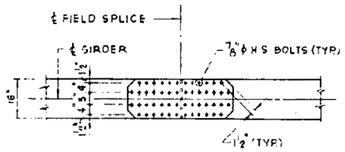
SECTION L-L

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

PIER CROSS BEAM

(FOR PIERS 21-7-N, 22-7-N ℄ 21-N-7)

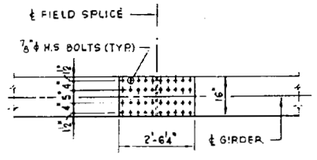
SCALE: 1/2" = 1'-0"



PLAN - FLANGE SPLICE

(N.B. ℄ S.B. PIERS 21 ℄ 22)

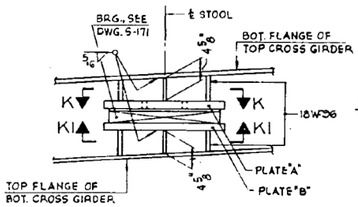
SCALE: 1/2" = 1'-0"



PLAN - FLANGE SPLICE

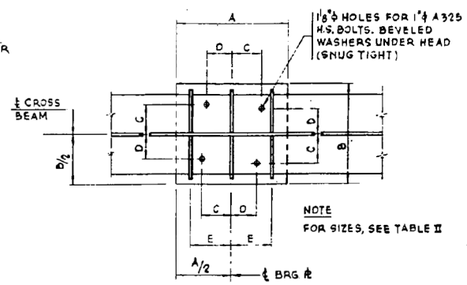
(N.B. ℄ S.B. PIER 23)

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



ELEVATION - STOOL

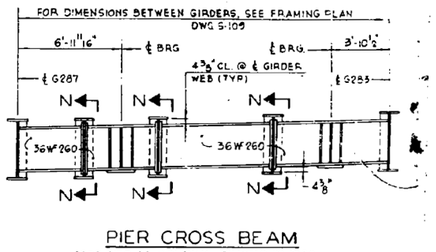
SCALE: 1" = 1'-0"



SECTION J-J

SCALE: 1" = 1'-0"

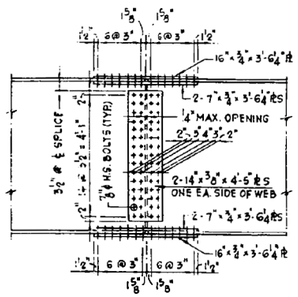
NOTE
FOR SIZES, SEE TABLE II



PIER CROSS BEAM

(FOR PIER 22-N-7 ONLY - SIMILAR TO PIER CROSS BEAM ABOVE, EXCEPT AS SHOWN OR NOTED)

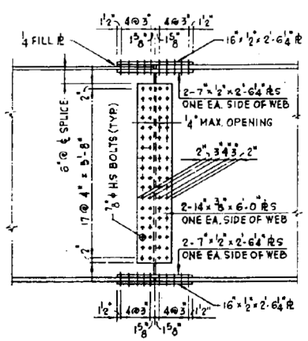
SCALE: 1/4" = 1'-0"



ELEVATION - BOLTED FIELD SPLICE

(N.B. ℄ S.B. SPLICE LINE 39 THRU 42)

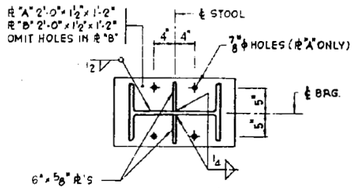
SCALE: 1/2" = 1'-0"



ELEVATION - BOLTED FIELD SPLICE

(N.B. ℄ S.B. SPLICE LINE 43)

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

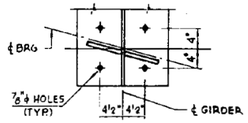


SECTION K-K

SECTION KI-KI

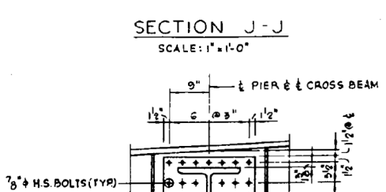
IDENTICAL TO SEC. K-K EXCEPT USE ℄ "B" INSTEAD OF ℄ "A"

SCALE: 1" = 1'-0"



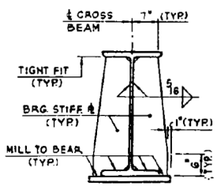
SECTION M-M

SCALE: 1" = 1'-0"



SECTION N-N

NO SCALE



SECTION H-H

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

TABLE II

DIM. \ PIER	21-N7 E	21-N7 W	21-7N E	21-7N W	22-N7 E	22-N7 W	22-7N E	22-7N W
A	1'-10"	1'-10"	1'-10"	1'-10"	1'-6"	2'-0"	1'-8"	1'-10"
B	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	2'-0"	1'-10"	1'-10"
C	5 1/16"	5 1/16"	5 3/16"	5 3/16"	4 11/16"	7 3/16"	5 3/8"	6 11/16"
D	5 1/16"	5 1/16"	5 9/16"	5 9/16"	4 11/16"	7 3/16"	5 3/8"	6 11/16"
E	8"	8"	8"	8"	7 1/2"	9 1/4"	8"	9 1/4"
t1	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/16"	1 3/4"	1 3/8"	1 3/4"
t2	1 7/8"	1 7/8"	2 1/16"	2 1/16"	1 11/16"	2 5/16"	1 15/16"	2 3/8"

NOTES
WORK THIS DWG. WITH DWGS. S-109 THRU S-113
COPE OR CUT ℄ CHIP WF'S AS REQUIRED
CUT STIFF. ℄ CORNERS AS REQ'D. OR AS NOTED

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY Z. RASHID
DRAWN BY J.N. LESLIE
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HONN

MISC. STEEL DETAILS - UNIT "A" MAINLINE AND RAMPS 7-N & N-7

F.A.I. 74 - SECTION 81-1HVB-1

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	389	178
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT F.74		

DWG. NO. S-81-A

4E CO 10-8155

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 128 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX137 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	756
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1 IVB	ROCK ISLAND	389	179
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		

DWG NO. S-115

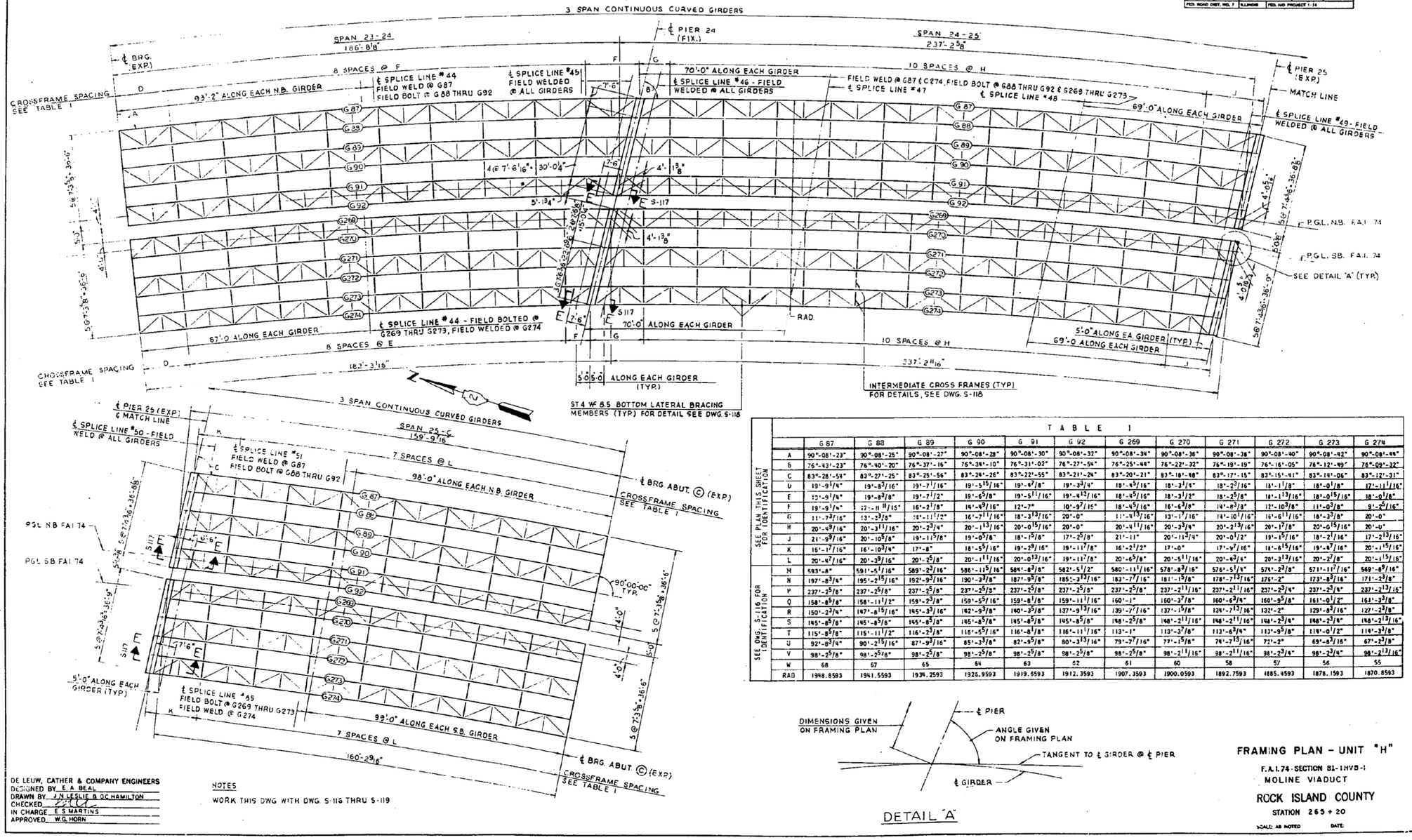


		TABLE 1											
		G 87	G 88	G 89	G 90	G 91	G 92	G 269	G 270	G 271	G 272	G 273	G 274
SEE PLAN THIS SHEET FOR IDENTIFICATION	A	90°-08'-23"	90°-08'-25"	90°-08'-27"	90°-08'-28"	90°-08'-30"	90°-08'-32"	90°-08'-34"	90°-08'-36"	90°-08'-38"	90°-08'-40"	90°-08'-42"	90°-08'-44"
	B	76°-42'-23"	76°-40'-20"	76°-37'-16"	76°-34'-10"	76°-31'-02"	76°-27'-54"	76°-25'-48"	76°-22'-32"	76°-19'-19"	76°-16'-05"	76°-12'-49"	76°-09'-32"
	C	83°-28'-54"	83°-27'-25"	83°-25'-56"	83°-24'-26"	83°-22'-55"	83°-21'-24"	83°-20'-21"	83°-18'-48"	83°-17'-15"	83°-15'-41"	83°-14'-06"	83°-12'-31"
	D	19'-9 1/16"	19'-8 3/16"	19'-7 1/16"	19'-5 15/16"	19'-4 7/8"	19'-3 3/4"	19'-4 9/16"	18'-3 1/8"	18'-2 3/16"	18'-1 1/8"	18'-0 1/8"	17'-11 1/16"
	E	121'-9 1/8"	19'-8 3/8"	19'-7 1/2"	19'-6 5/8"	19'-5 11/16"	19'-4 13/16"	18'-4 5/16"	18'-3 1/2"	18'-2 5/8"	18'-1 13/16"	18'-0 15/16"	18'-0 1/16"
	F	19'-9 1/16"	17'-11 11/16"	16'-2 1/8"	14'-4 9/16"	12'-7"	10'-9 7/16"	18'-4 5/16"	16'-6 3/8"	14'-8 3/8"	12'-10 3/8"	11'-0 3/8"	9'-2 5/16"
	G	111'-7 3/16"	13'-2 3/8"	14'-11 1/2"	16'-7 11/16"	18'-3 13/16"	20'-0"	11'-4 13/16"	13'-1 7/16"	14'-10 1/16"	16'-6 11/16"	18'-3 3/8"	20'-0"
	H	20'-4 9/16"	20'-3 11/16"	20'-2 3/4"	20'-1 15/16"	20'-0 15/16"	20'-0"	20'-4 11/16"	20'-3 3/4"	20'-2 13/16"	20'-1 7/8"	20'-0 15/16"	20'-0"
	J	21'-9 9/16"	20'-10 5/8"	19'-11 5/8"	19'-0 5/8"	18'-1 5/8"	17'-2 5/8"	21'-11"	20'-11 3/4"	20'-0 1/2"	19'-1 5/16"	18'-2 1/16"	17'-2 13/16"
	K	16'-1 7/16"	16'-1 03/4"	17'-8"	18'-5 5/16"	19'-2 9/16"	19'-11 7/8"	16'-2 1/2"	17'-0"	17'-9 7/16"	18'-6 15/16"	19'-4 7/16"	20'-1 15/16"
	L	20'-4 7/16"	20'-3 9/16"	20'-2 5/8"	20'-1 11/16"	20'-0 13/16"	19'-11 7/8"	20'-6 5/8"	20'-5 11/16"	20'-4 3/4"	20'-3 13/16"	20'-2 7/8"	20'-1 15/16"
SEE DWG. S-116 FOR IDENTIFICATION	M	593'-8"	591'-5 1/16"	589'-2 3/16"	586'-11 5/16"	584'-8 3/8"	582'-5 1/2"	580'-11 1/16"	578'-8 3/16"	576'-5 1/4"	574'-2 3/8"	571'-11 7/16"	569'-8 9/16"
	N	197'-8 3/4"	195'-2 15/16"	192'-9 3/16"	190'-3 3/8"	187'-9 5/8"	185'-3 13/16"	182'-7 1/16"	181'-1 5/8"	178'-7 13/16"	176'-2"	173'-8 3/16"	171'-2 3/8"
	P	237'-2 5/8"	237'-2 5/8"	237'-2 5/8"	237'-2 5/8"	237'-2 5/8"	237'-2 5/8"	237'-2 5/8"	237'-2 11/16"	237'-2 11/16"	237'-2 3/4"	237'-2 3/4"	237'-2 13/16"
	Q	158'-8 5/8"	158'-1 1/2"	158'-2 3/8"	158'-2 5/16"	158'-8 1/8"	159'-1 1/16"	160'-1"	160'-3 7/8"	160'-6 3/4"	160'-9 5/8"	161'-0 1/2"	161'-3 3/8"
	R	150'-2 3/4"	149'-8 15/16"	149'-3 3/16"	149'-9 3/8"	150'-2 5/8"	150'-8 1/16"	139'-7 7/16"	139'-1 5/8"	138'-7 13/16"	138'-2"	139'-8 3/16"	139'-2 3/8"
	S	145'-8 5/8"	145'-8 5/8"	145'-8 5/8"	145'-8 5/8"	145'-8 5/8"	145'-8 5/8"	148'-2 5/8"	148'-2 11/16"	148'-2 11/16"	148'-2 3/4"	148'-2 3/4"	148'-2 13/16"
	T	115'-8 5/8"	115'-11 1/2"	116'-2 3/8"	116'-5 5/16"	116'-8 1/8"	116'-11 1/16"	113'-1"	113'-3 7/8"	113'-6 3/4"	113'-9 5/8"	114'-0 1/2"	114'-3 3/8"
	U	92'-8 3/4"	90'-2 15/16"	87'-9 3/16"	85'-3 3/8"	82'-9 5/8"	80'-3 13/16"	79'-7 1/16"	77'-1 5/8"	74'-7 13/16"	72'-2"	69'-8 3/16"	67'-2 5/8"
	V	98'-2 5/8"	98'-2 5/8"	98'-2 5/8"	98'-2 5/8"	98'-2 5/8"	98'-2 5/8"	98'-2 5/8"	98'-2 11/16"	98'-2 11/16"	98'-2 3/4"	98'-2 3/4"	98'-2 13/16"
	W	68	67	65	64	63	62	61	60	58	57	56	55
	RAD	1948.8593	1941.5593	1934.2593	1926.9593	1919.6593	1912.3593	1907.3593	1900.0593	1892.7593	1885.4593	1878.1593	1870.8593

DETAIL 'A'

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

NOTES

WORK THIS DWG WITH DWG. S-116 THRU S-119

FRAMING PLAN - UNIT "H"

F.A.I. 74 - SECTION 81-1NVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 129 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

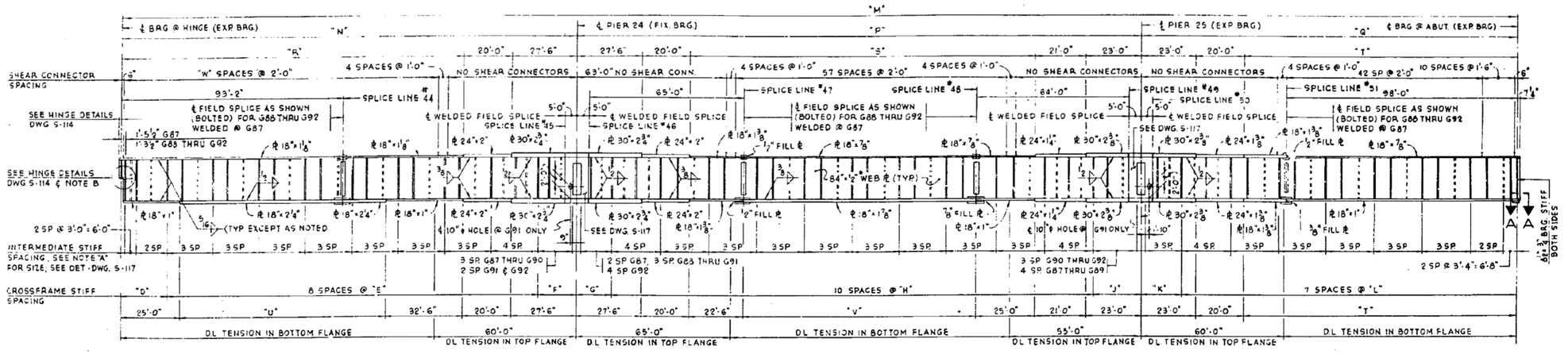
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS - FOR INFORMATION ONLY
SHEET NO. SX138 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	757
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	180
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

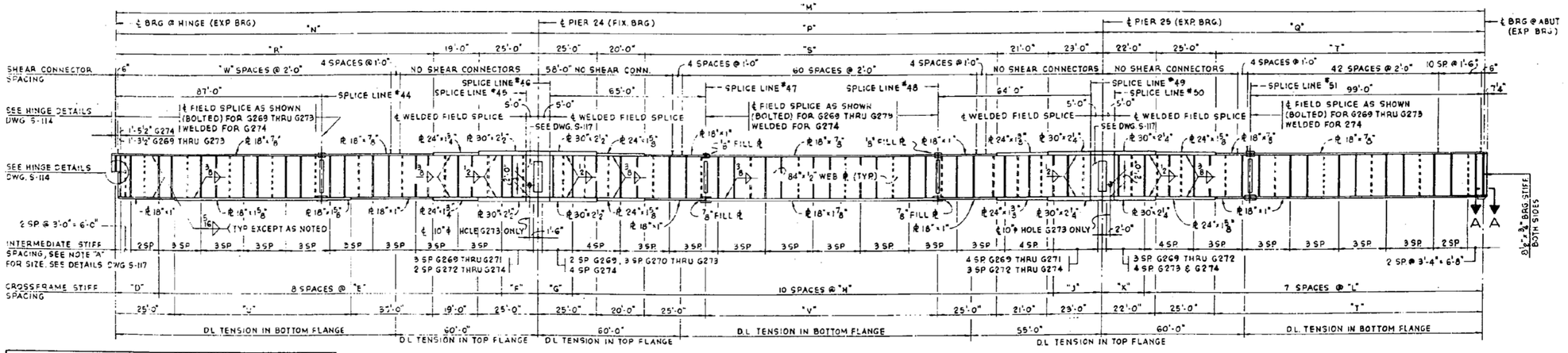
DWG. NO. S-116



ELEVATION OF GIRDERS G87 THRU G92

SCALE - 1" = 20' HORIZ., 1/8" = 1'-0" VERT

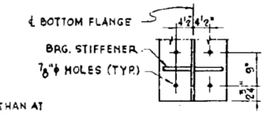
* 5/8" WEB ℄ IN SECTIONS OVER PIERS ON FASCIA GIRERS
SEE DETAIL 2 DWG. S-113.



ELEVATION OF GIRDERS G269 THRU G274

SCALE: 1" = 20' HORIZ., 1/8" = 1'-0" VERT.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
3/4" ϕ x 5" STUD SHEAR CONNECTORS	EACH	7110



NOTE "A"
INTERMEDIATE STIFFENERS, OTHER THAN AT CROSS FRAMES, SHALL BE PLACED ALTERNATIVELY OF BOTH SIDES OF INTERIOR GIRDERS. FASCIA GIRDERS SHALL HAVE INTERMEDIATE STIFFENERS ON THE INSIDE FACE OF WEB ONLY

NOTE "B"
DETAIL AT HINGE SHOWN FOR INTERIOR GIRDER. FOR EXTERIOR GIRDER (FURTHER DETAILS, SEE "HINGE DETAILS", DWG S-114

NOTES
WORK THIS DWG WITH DWGS. S-114, S-115, S-117 & S-118
ALL STRUCTURAL STEEL SHALL BE ASTM A-36.
ALL DIMENSIONS ARE GIVEN ALONG ℄ WEB ON A HORIZONTAL PLANE @ 50° F. TEMP. FOR DIMENSIONS D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V & W SEE TABLE 1, DWG. S-115.
SPACE INTERMEDIATE STIFFENERS TO CLEAR ℄ WELDED WEB SPLICES BY 9" MIN. & TO CLEAR EDGE OF SPLICE ℄'S 3" ON BOLTED SPLICES.
SPACE SHEAR CONNECTORS TO MISS FIELD SPLICE BOLTS.

GIRDER ELEVATIONS G-87 THRU G-92 AND G-269 THRU G-274

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

DE LEUW, GATHER & COMPANY ENGINEERS
DESIGNED BY E.A. BEAL
DRAWN BY J.N. LESLIE
CHECKED
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8618178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 130 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

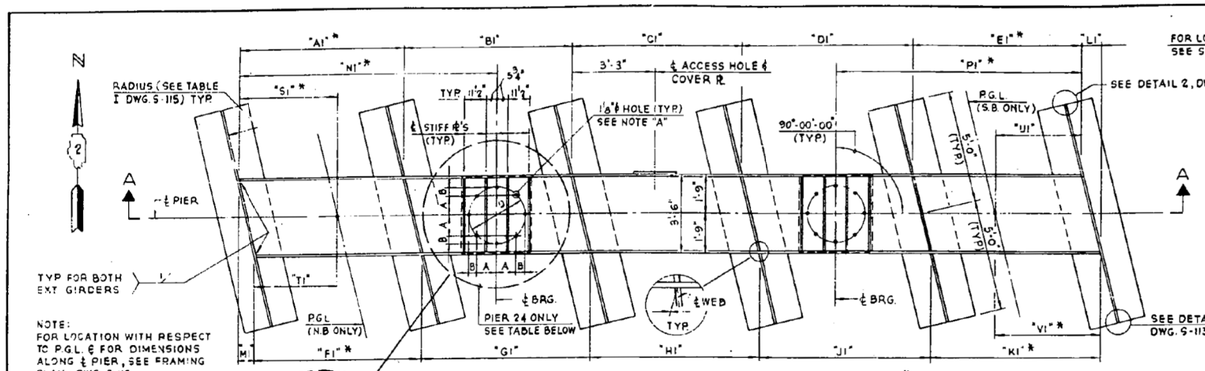
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX139 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	758
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB	ROCK ISLAND	389	181
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

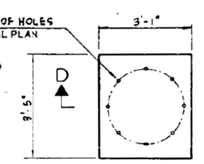
DWG. NO. S-117



ANCHOR BOLTS				
LOCATION		A	B	D
PIER 24 N.B.	W. BRG.	10⅛"	4⅛"	30½"
	E. BRG.	10⅛"	4⅛"	28⅜"
PIER 24 S.B.	W. BRG.	10⅛"	4⅛"	28⅜"
	E. BRG.	10⅛"	4⅛"	30½"

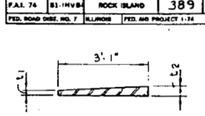
SECTIONAL PLAN
NO SCALE

*DIMENSIONS GIVEN TO LINE LABELED "℄ GIRDER" IN DETAIL 2 DWG. S-113



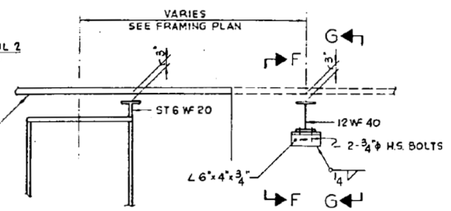
LOCATION		t_1	t_2
PIER 24 N.B.	EAST	2⅜"	4½"
	WEST	2½"	4⅝"
PIER 24 S.B.	EAST	2½"	3⅞"
	WEST	2⅜"	3¾"
PIER 25 N.B.	EAST	2¼"	4⅜"
	WEST	2¼"	4⅜"
PIER 25 S.B.	EAST	2¼"	3⅝"
	WEST	2⅜"	3¾"

PLAN - BEARING PLATE
SCALE: ½"=1'-0"

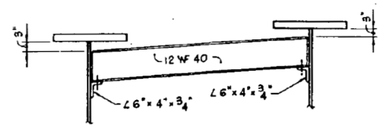


SECTION D-D
SCALE ½"=1'-0"

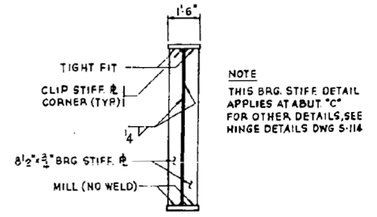
TABLE 2				
DIMENSIONS	PIER 24 N.B.	PIER 24 S.B.	PIER 25 N.B.	PIER 25 S.B.
A_1	7'-6⅜"	7'-6¼"	7'-4⅜16"	7'-4¼"
B_1	7'-6⅜16"	7'-6⅜16"	7'-4⅜16"	7'-4⅜"
C_1	7'-6⅜16"	7'-6⅜16"	7'-4⅜16"	7'-4⅜16"
D_1	7'-6⅜16"	7'-6⅜16"	7'-4⅜16"	7'-4⅜16"
E_1	7'-6⅜16"	7'-6⅜"	7'-4⅜16"	7'-4⅜16"
F_1	7'-6⅜16"	7'-6⅜16"	7'-4⅜16"	7'-4⅜16"
G_1	7'-6⅜16"	7'-6⅜16"	7'-4⅜16"	7'-4⅜16"
H_1	7'-6⅜16"	7'-6⅜"	7'-4⅜16"	7'-4⅜16"
J_1	7'-6"	7'-6⅜"	7'-4⅜16"	7'-4⅜16"
K_1	7'-6"	7'-6⅜"	7'-4⅜16"	7'-4⅜16"
L_1	9⅛16"	10⅛"	4⅜16"	4⅞"
M_1	10⅛"	10⅜"	4⅞"	5"
N_1	11'-8⅛"	11'-8½"	11'-2⅝"	11'-2¾"
P_1	10'-10"	10'-10⅜16"	10'-9⅜16"	10'-9⅜16"
S_1	4'-6⅞16"	—	4'-2⅝"	—
T_1	3'-5⅜16"	—	3'-9⅞"	—
U_1	—	3'-8⅜16"	—	3'-9⅞"
V_1	—	4'-6⅞16"	—	4'-2¾"



SECTION E-E
SCALE ½"=1'-0"

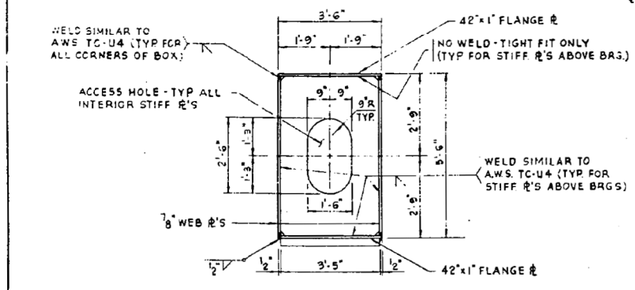


SECTION F-F & G-G
SCALE: ½"=1'-0"

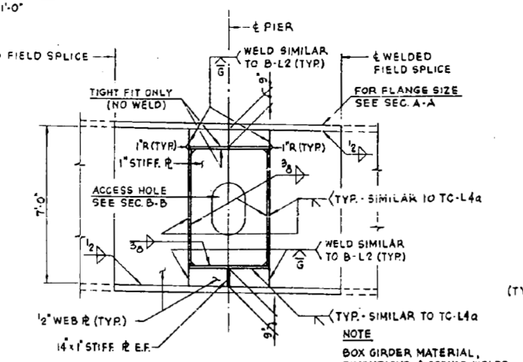


NOTE
THIS BRG. STIFF. DETAIL APPLIES AT ABUT "C" FOR OTHER DETAILS, SEE HINGE DETAILS DWG S-114

BEARING STIFFENER DETAIL
SCALE: ⅜"=1'-0"

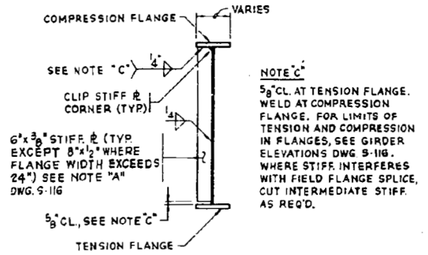


SECTION B-B
SCALE: ½"=1'-0"



NOTE
BOX GIRDER MATERIAL, DIMENSIONS, & CORNER WELDS AS SHOWN ON SEC. B-B

SECTION C-C
(TYP. FOR ALL INTERIOR GIRDERS)
SCALE: ⅜"=1'-0"



NOTE "C"
⅝" CL. AT TENSION FLANGE. WELD AT COMPRESSION FLANGE. FOR LIMITS OF TENSION AND COMPRESSION IN FLANGES, SEE GIRDER ELEVATIONS DWG S-116. WHERE STIFF. INTERFERES WITH FIELD FLANGE SPLICE, CUT INTERMEDIATE STIFF. AS REQ'D.

INTERMEDIATE STIFFENER DETAIL
(TYPICAL FOR INT. STIFF. EXCEPT @ CROSS FRAMES SHOWN ON DWG. S-118)
SCALE: ⅜"=1'-0"

NOTES
WORK THIS DWG. WITH DWG.'S S-115, S-116, S-118 & S-119
CLIP ALL STIFF. ℄ CORNERS AS SHOWN & AS REQ'D.
ALL STIFF. ℄'S & GIRDER WEBS TO BE VERTICAL.

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

CROSS GIRDERS AT PIERS 24 AND 25, MAINLINE & MISCELLANEOUS STEEL DETAILS

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

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1/18/2017 4:41:29 PM

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 131 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

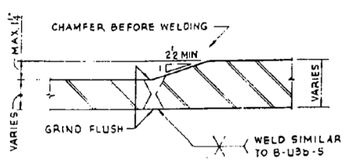
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX140 OF SX150 SHEETS

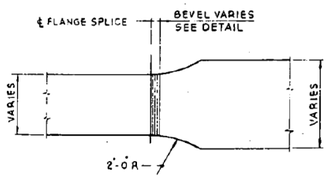
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	759
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1)HVB	ROCK ISLAND	389	182
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

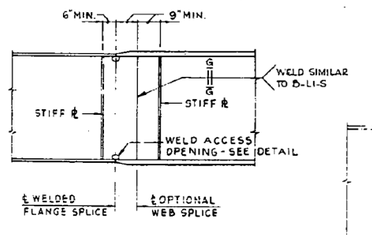
DWG. NO. S-118



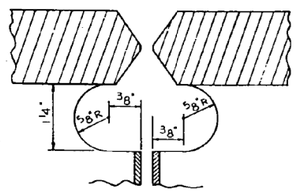
FLANGE SPLICE DETAIL
(TYP FOR ALL SHOP WELDED FLANGE SPLICES)
NO SCALE



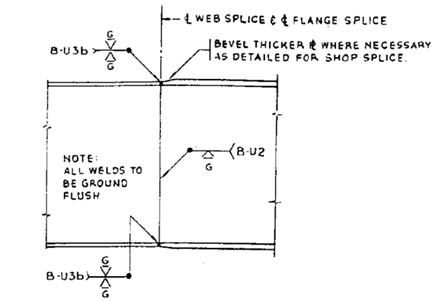
PLAN - FLANGE SPLICE
(TYP FOR ALL SHOP WELDED FLANGE SPLICES)
NO SCALE



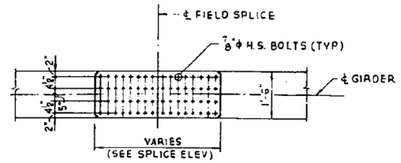
SHOP SPLICE DETAIL
NO SCALE



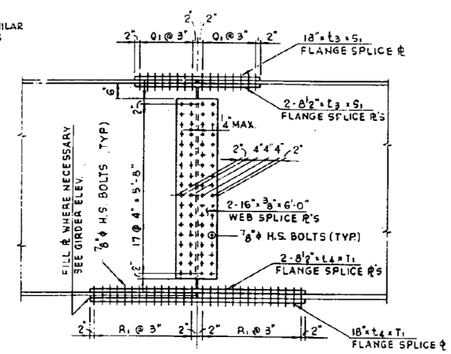
WELD ACCESS OPENING DETAIL
NO SCALE



FIELD WELDED SPLICE DETAIL
NO SCALE



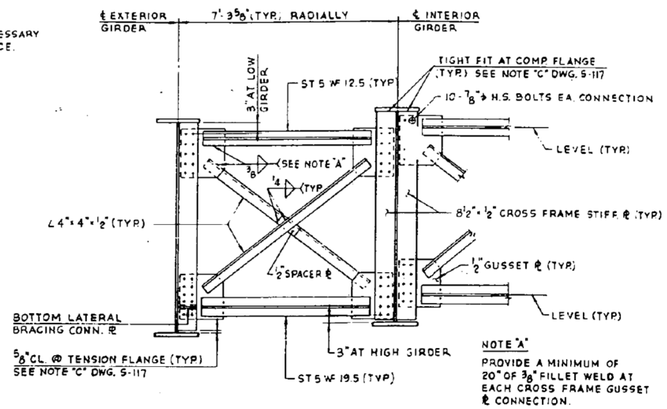
PLAN - FLANGE SPLICE
SCALE: ½"=1'-0"



ELEVATION - BOLTED FIELD SPLICE
SCALE: ½"=1'-0"

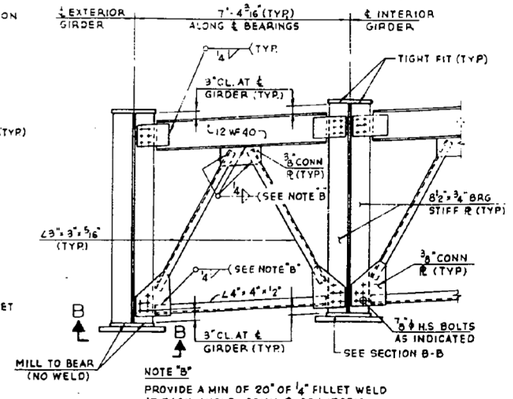
BOLTED FIELD SPLICE SCHEDULE

FIELD SPLICE	"Q1"	"R1"	"S1"	"T1"	"t3"	"t4"
N.B. SPLICELINE 44	7	13	4'-2"	7'-2"	¾"	1⅜"
S.B. SPLICELINE 44	5	10	3'-2"	5'-8"	⅝"	1¼"
N.B. SPLICELINES 47 & 48	4	8	2'-8"	4'-8"	⅝"	1"
S.B. SPLICELINES 47 & 48	4	8	2'-8"	4'-8"	⅝"	1"
N.B. SPLICELINE 51	5	5	3'-2"	3'-2"	⅝"	⅝"
S.B. SPLICELINE 49	5	5	3'-2"	3'-2"	⅝"	⅝"



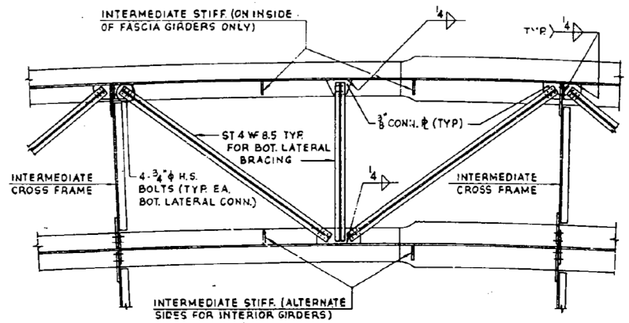
NOTE "A"
PROVIDE A MINIMUM OF 20" OF ⅜" FILLET WELD AT EACH CROSS FRAME GUSSET ℜ CONNECTION.

INTERMEDIATE CROSS FRAME DETAIL
SCALE: ½"=1'-0"

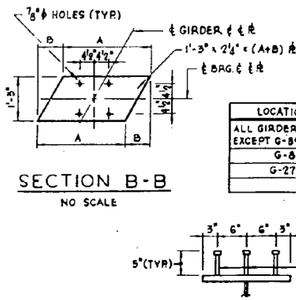


NOTE "B"
PROVIDE A MIN. OF 20" OF ¼" FILLET WELD AT EACH ANGLE - CONN. ℜ CONNECTION.

END CROSS FRAME DETAIL
(APPLIES ONLY AT ABUT. "C")
SCALE: ½"=1'-0"



BOTTOM LATERAL BRACING DETAIL
SCALE: ⅜"=1'-0"



LOCATION	A	B
ALL GIRDERS EXCEPT G-89 & G-272	1'-11"	0"
G-89	2'-11½"	2'0"
G-272	2'-1"	1'6"

SECTION B-B
NO SCALE

¾"ϕ CR 1020 STL. GRANULAR OR SOLID FLUX FILLED STUDS AUTOMATICALLY END WELDED.

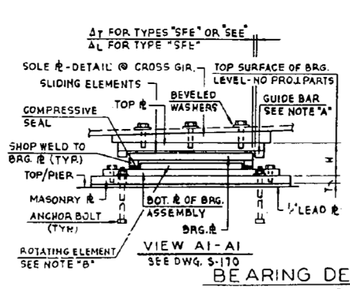
SHEAR CONNECTOR DETAIL
SCALE: 1"=1'-0"

NOTES

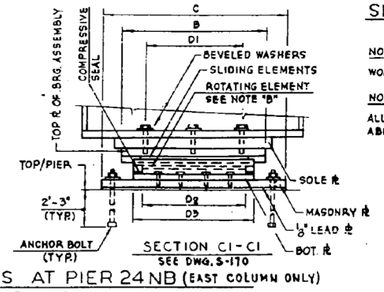
WORK THIS DWG WITH DWG. S-115 THRU S-119

NOTE "B"

ALL BEARINGS SHALL HAVE A ROTATIONAL CAPABILITY ABOUT A HORIZONTAL AXIS OF 1:100



VIEW A1 - A1
SEE DWG. S-170



SECTION C1 - C1
SEE DWG. S-170

BEARING DETAILS AT PIER 24 NB (EAST COLUMN ONLY) AND PIER 24 SB (WEST COLUMN ONLY)
FOR OTHER BEARINGS SEE DWG. S-170

SPLICES, CROSS FRAMES AND BRACING DETAILS - UNIT "H"

F.A.I. 74 - SECTION 81-1HV8-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265 + 20

SCALE: AS NOTED DATE:

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY E.A.BEAL
DRAWN BY J.MESLIE
CHECKED
IN CHARGE E.S.MARTINS
APPROVED W.G.HORN

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8010178-A0321-002-Contract AB Demo_Rosters.brg
MODEL: 132 Contract AB

USER NAME = ksnider	DESIGNED - AWH	REVISED -
	CHECKED - AJK	REVISED -
PLOT SCALE =	DRAWN - KMS	REVISED -
PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX141 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	760
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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NOTE: BARS INDICATED THUS 2 - #8 ETC. THIS MEANS 2 LINES OF BARS WITH 3 LENGTHS PER LINE.
BENT BAR a1 DETAILED ON THIS SHEET. FOR OTHER BENT BARS SEE DWG. S-157.
MIN. BAR LAPS = 24 DIA.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	192
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-154

⊗ SHOWN ON DRAWING S-158

BAR a1

BAR LIST

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	432	#6	26'-0"	—
a1	216	#6	26'-9"	∿
a2	3	#6	7'-3"	—
a3	1	#6	22'-0"	—
a4	210	#6	4'-0"	◜
a7	219	#6	4'-0"	—
b7	6	#5	1'-0"	—
b13	4	#9	31'-6"	—
b39	2	#5	16'-8"	⊓
b83	12	#5	24'-9"	—
b117	710	#5	29'-0"	—
b129	58	#6	37'-0"	—
b130	6	#5	21'-0"	—
b131	18	#5	25'-2"	—
b132	16	#5	14'-6"	—
b133	16	#8	14'-6"	—
b134	12	#8	25'-2"	—
b135	18	#8	25'-8"	—
b170	16	#5	2'-6"	—
d	544	#4	3'-7"	◜
d1	116	#4	2'-3"	⊓
d2	586	#5	3'-8"	∫
d3	583	#4	2'-0"	—
d4	2	#5	3'-2"	L
d10	4	#6	9'-3"	⊓
d11	3	#6	4'-0"	L
d12	2	#8	3'-0"	L
d13	2	#5	4'-0"	L
d30	36	#6	4'-0"	◜
e10	4	#4	2'-9"	L
e17	16	#4	15'-6"	—
e43	20	#4	14'-0"	—
e41	32	#4	14'-2"	—
e42	76	#4	4'-5"	—
e43	4	#4	14'-7"	—
X	49	#6	4'-3"	C

FOR BAR BENDING DETAILS SEE DWG. S-157.

NOTES:
FOR DRAIN LOCATIONS, SEE GENERAL PLAN, DWG. S-4.
FOR DRAIN DETAILS, SEE DWG. D-1.
FOR REINFORCEMENT AT DRAINS, SEE SCUPPER DETAILS, DWG. S-158.
CUT SLAB REINFORCING BARS IN FIELD TO MISS DRAINS.
ALL HORIZONTAL DIMENSIONS ARE AT 58° F.
FOR METHOD OF DETERMINING FILLET HEIGHTS, SEE DWG. S-159.
FOR LIGHT STANDARD ANCHORAGE, RAIL POST AND PARAPET JOINT DETAILS, SEE DWG. S-172.

RAMP 7-N SLOPE TABLE

EDGE OF RAMP PAVEMENT PARALLEL TO ℄ RAMP 7-N	16'-0"	14'-0"
STA. 70+75 TO STA 73+22.37	INSIDE FACE OF PARAPET	
STA. 73+22.37 TO 74+00	BASE OF CURB	℄ PGL RAMP 7-N

END MEDIAN DECK	EDGE OF MEDIAN OR BASE OF CURB	MEDIAN SLOPE	SLOPE	STA.
MEDIAN	VARIES	0.0908"/'	0.022"/'	0.03 '/'	70+75
		0.2555"	0.04	0.03	71+00
		—	0.03	0.03	71+50
		—	0.03	0.03	72+75
		—	0.0209	0.0209	73+22.37
		—	0.0156	0.0156	73+50
		—	0.0156	0.0	74+00

SLOPE VARIES UNIFORMLY BETWEEN STATIONS GIVEN IN TABLE AND IS RADIAL TO ℄ RAMP 7-N.
• SEE SECTION E-E

TYPICAL PANEL DETAIL

PANEL	NO. OF PANELS	NO. OF BARS IN EACH PANEL #5d2	#4d3	#4e
A	3	17	17	2@17 E.F.
B	2	15	15	2@40 E.F.
C	1	15	15	2@40 E.F.
D	12	16	16	2@42 E.F.
E	1	16	16	2@42 E.F.
F	6	16	16	2@42 E.F.
G	1	15	15	2@40 E.F.
H	1	15	15	2@40 E.F.
J	8	15	15	2@41 E.F.
K	1	16	16	2@43 E.F.
L *	1	20	17	2@17 E.F.

*SEE DETAIL I & PLAN FOR ADD'L. REINF.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD.	263.7
REINFORCING BARS	POUND	63,690
ALUMINUM RAILING	LIN. FT.	543
PROTECTIVE COAT	SQ. YD.	217
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	65
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	766

PLAN
SCALE: 3/32" = 1'-0"

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

CURB DETAIL
SCALE: 1" = 1'-0"

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

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

SECTION G-G
SCALE: 3" = 1'-0"

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

SECTION K-K
FULL SCALE

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

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY W.Y. HUO
DRAWN BY R. BOOMER
CHECKED "
IN CHARGE E.S. MARTINS
APPROVED W.G. HORN

DECK SLAB - UNIT "G"
RAMP 7-N
F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT
ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 133 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

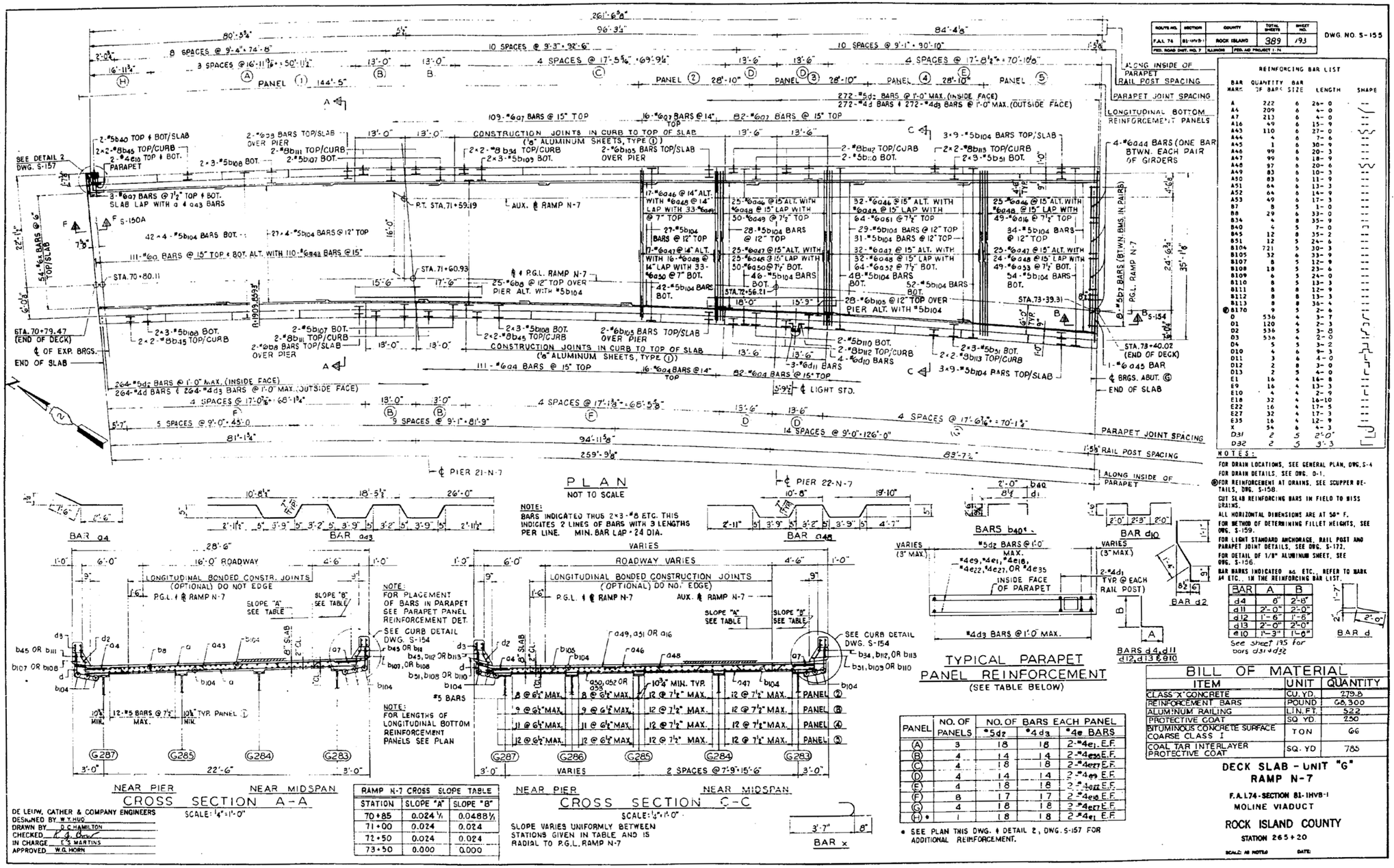
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX142 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	761
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(81-1HVB-)	ROCK ISLAND	389	193
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

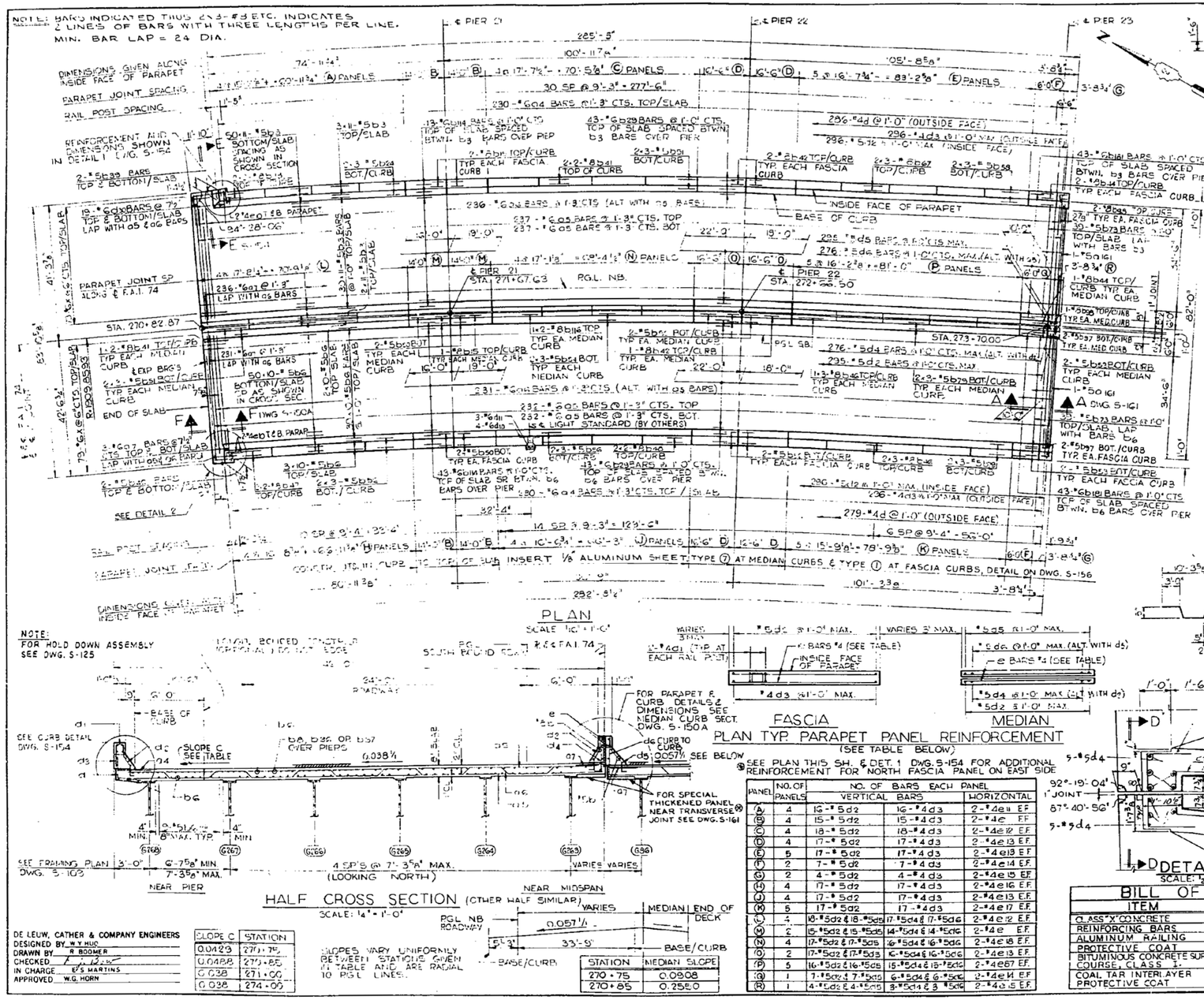
DWG. NO. S-155


PLAN
NOT TO SCALE
PIER 21-N-7
PIER 22-N-7
PANEL (1) 144'-5"
PANEL (2) 28'-10"
PANEL (3) 28'-10"
PANEL (4) 28'-10"
PANEL (5)
261'-6⅝"
96'-3¼"
84'-4⅛"
80'-5⅝"
259'-9⅛"
94'-11⅝"
83'-7½"
81'-1¾"
8 SPACES @ 9'-4"=74'-8"
3 SPACES @ 16'-11⅜"=50'-11½"
10 SPACES @ 9'-3"=92'-6"
4 SPACES @ 17'-5⅝"=69'-9¼"
10 SPACES @ 9'-1"=90'-10"
4 SPACES @ 17'-8¼"=70'-10⅝"
5 SPACES @ 9'-0"=45'-0"
9 SPACES @ 9'-1"=81'-9"
4 SPACES @ 17'-0⅜"=68'-1¾"
4 SPACES @ 17'-1⅜"=68'-5⅝"
14 SPACES @ 9'-0"=126'-0"
4 SPACES @ 17'-6¼"=70'-1"
CONSTRUCTION JOINTS IN CURB TO TOP OF SLAB ("S" ALUMINUM SHEETS, TYPE (1))
272-#5d2 BARS @ 1'-0" MAX. (INSIDE FACE)
272-#4d BARS & 272-#4d3 BARS @ 1'-0" MAX. (OUTSIDE FACE)
264-#5d2 BARS @ 1'-0" MAX. (INSIDE FACE)
264-#4d BARS & 264-#4d3 BARS @ 1'-0" MAX. (OUTSIDE FACE)
109-#6a7 BARS @ 15" TOP
82-#6a7 BARS @ 15" TOP
111-#6a4 BARS @ 15" TOP
82-#6a4 BARS @ 15" TOP
16-#6a7 BARS @ 14" TOP
16-#6a6 BARS @ 14" TOP
2-#5b40 TOP & BOT./SLAB
2×2-#8b45 TOP/CURB
2-#4c10 TOP & BOT.
PARAPET
3-#6a7 BARS @ 7½" TOP & BOT. SLAB LAP WITH a & a43 BARS
2×3-#5b108 BOT.
2-#8b111 TOP/CURB
2-#5b107 BOT.
2-#6b08 BARS TOP/SLAB OVER PIER
2×2-#8 b34 TOP/CURB
2×3-#5b109 BOT.
2-#6b105 BARS TOP/SLAB OVER PIER
2-#8bu2 TOP/CURB
2-#5b10 BOT.
2×2-#8b113 TOP/CURB
2×3-#5b51 BOT.
3×9-#5b104 BARS TOP/SLAB
4-#6a44 BARS (ONE BAR BTWN. EACH PAIR OF GIRDERS
SEE DETAIL 2 DWG. S-157
S-150A
S-154
P.T. STA. 71+59.19
AUX. ℄ RAMP N-7
℄ P.G.L. RAMP N-7
STA. 70+80.11
STA. 71+60.93
STA. 72+56.21
STA. 73+39.31
STA. 73+40.02 (END OF DECK)
STA. 70+79.47 (END OF DECK)
℄ OF EXP. BRGS.
END OF SLAB
℄ BRGS. ABUT. ⑥
℄ LIGHT STD.
42-#5b104 BARS BOT.
27-#5b104 BARS @ 12" TOP
111-#6a5 BARS @ 15" TOP & BOT. ALT. WITH 110-#6a42 BARS @ 15"
54-#6a BARS @ 6" TOP/SLAB
17-#6a46 @ 14" ALT. WITH #6a48 @ 14" LAP WITH 33-#6a50 @ 7" BOT.
25-#6a46 @ 15" ALT. WITH #6a48 @ 15" LAP WITH 50-#6a49 @ 7" TOP
28-#5b104 BARS @ 12" TOP
17-#6a47 @ 14" ALT. WITH 16-#6a48 @ 14" LAP WITH 33-#6a50 @ 7" BOT.
25-#6a47 @ 15" ALT. WITH 25-#6a48 @ 15" LAP WITH 50-#6a50 @ 7½" BOT.
40-#5b104 BARS BOT.
25-#6a6 @ 12" TOP OVER PIER ALT. WITH #5b104
32-#6a46 @ 15" ALT. WITH #6a48 @ 15" LAP WITH 64-#6a51 @ 7½" TOP
29-#5b103 BARS @ 12" TOP
31-#5b104 BARS @ 12" TOP
32-#6a47 @ 15" ALT. WITH 32-#6a48 @ 15" LAP WITH 64-#6a52 @ 7½" BOT.
48-#5b104 BARS BOT.
28-#6b105 @ 12" TOP OVER PIER ALT. WITH #5b104
25-#6a46 @ 15" ALT. WITH #6a48 @ 15" LAP WITH 49-#6a16 @ 7½" TOP
34-#5b104 BARS @ 12" TOP
25-#6a47 @ 15" ALT. WITH 24-#6a48 @ 15" LAP WITH 49-#6a53 @ 7½" BOT.
54-#5b104 BARS BOT.
52-#5b104 BARS BOT.
3×9-#5b104 BARS TOP/SLAB
8-#5d2 BARS (BTWN. BMS. IN PAIRS)
2-#6b105 BARS TOP/SLAB OVER PIER
2-#5b107 BOT.
2-#8b111 TOP/CURB
2-#6b08 BARS TOP/SLAB OVER PIER
2×3-#5b108 BOT.
2×2-#8b45 TOP/CJRB
2-#5b110 BOT.
2-#8bu2 TOP/CURB
4-#6d10 BARS
3-#6d11 BARS
2×3-#5b51 BOT.
2×2-#8b113 TOP/CURB
2×3-#5b108 BOT.
2×2-#8b45 TOP/CURB
2-#5b108 BOT.
2-#8b111 TOP/CURB
2-#6b08 BARS TOP/SLAB OVER PIER
2×3-#5b108 BOT.
2×2-#8b45 TOP/CURB
ALONG INSIDE OF PARAPET
RAIL POST SPACING
PARAPET JOINT SPACING
LONGITUDINAL BOTTOM REINFORCEMENT PANELS
1'-5⅝" RAIL POST SPACING
ALONG INSIDE OF PARAPET
PARAPET JOINT SPACING
N 1903.693
E 1903.693
22'-1"
6'-0"
7'-3"
16'-0"
35'-1⅛"
24'-6¾"
5'-9½"
5'-7"
5'-9½"
5'-9½"
5'-9½

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	195
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. 1-74		

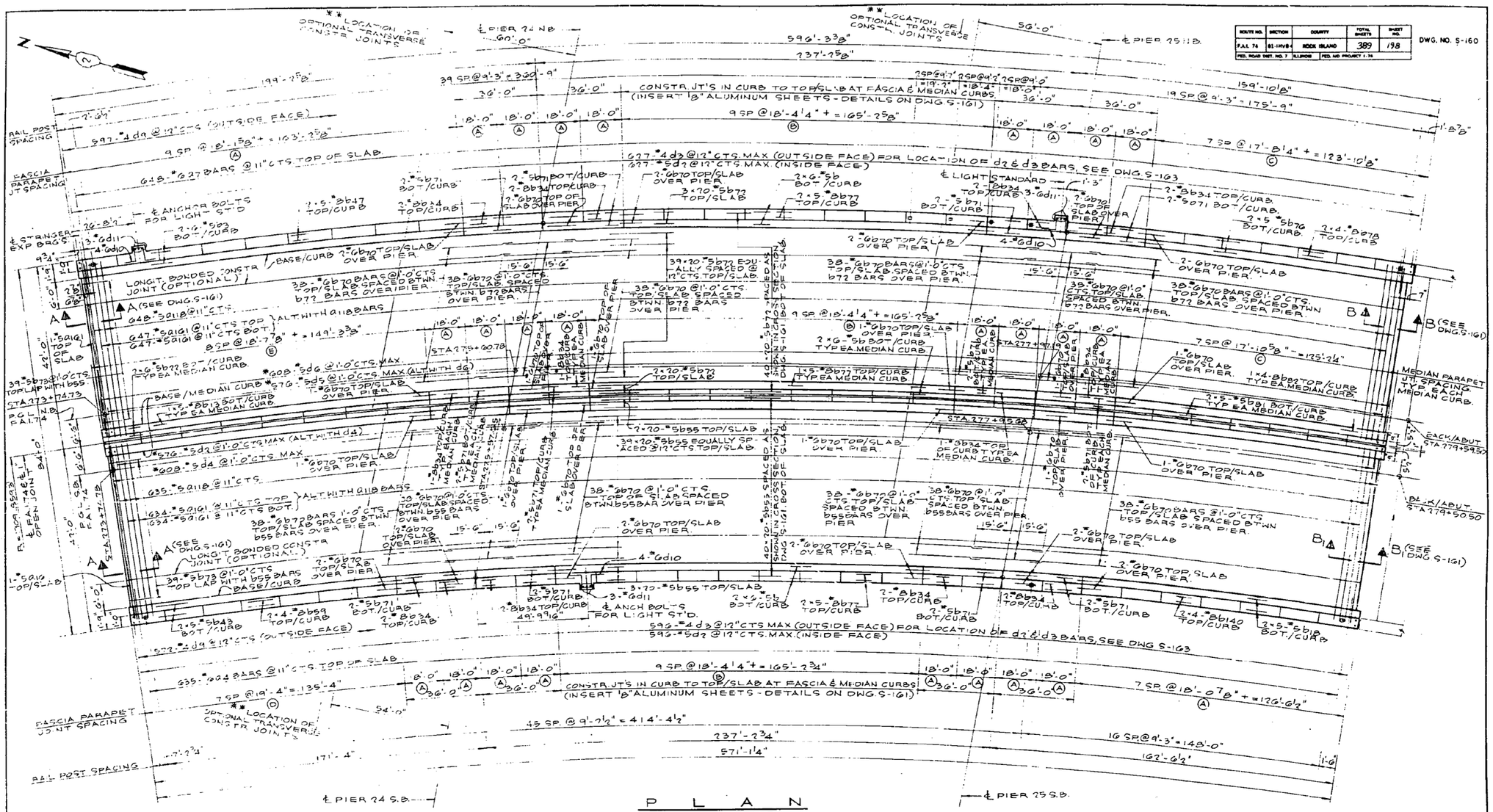
DWG. NO. S-157

NOTE: BARS INDICATED THUS 2-3-#8 ETC. INDICATES 2 LINES OF BARS WITH THREE LENGTHS PER LINE. MIN. BAR LAP = 24 DIA.


PLAN
SCALE: 1/8" = 1'-0"
HALF CROSS SECTION (OTHER HALF SIMILAR)
SCALE: 1/4" = 1'-0"
FASCIA
MEDIAN
PLAN TYP. PARAPET PANEL REINFORCEMENT
(SEE TABLE BELOW)
SECTION D-D
Work with Sheet 289
DETAIL-2
SCALE: 1/2" = 1'-0"
BAR d 10
BARS a4 & d 30
BAR x
BARS b 39 & b 40
BAR d
BAR d1
BARS d2 & d5
BARS d4,d6&d11
BAR a6
BARS b73,d31 d32 & e10
NEAR PIER
NEAR MIDSPAN
SEE DETAIL 2
SEE FRAMING PLAN DWG. S-103
FOR NOTES SEE DWG. S-154
INSIDE FACE OF PARAPET
BASE OF CURB
1" JOINT
1"x1/8" Recess Cncr. Sdle
1/2" CHAMFER PARAPET & CURB
FOR PARAPET & CURB DETAILS & DIMENSIONS SEE MEDIAN CURB SECT. DWG. S-150A
FOR SPECIAL THICKENED PANEL NEAR TRANSVERSE JOINT SEE DWG. S-161
SEE CURB DETAIL DWG. S-154
SLOPE C SEE TABLE
d6 CURB TO CURB .0057" SEE BELOW
.038" SEE BELOW
4 SP'S @ 7'-3⅝" MAX. (LOOKING NORTH)
VARIES VARIES
4" MIN. 8" MAX. TYP. 4" MIN
3'-0"
6'-7⅝" MIN
7'-3⅝" MAX.
SLOPES VARY UNIFORMLY BETWEEN STATIONS GIVEN IN TABLE AND ARE RADIAL TO PGL LINES.
.057" /ft
5'-3"
33'-9"
BASE/CURB
MEDIAN
END OF DECK
STATION
MEDIAN SLOPE
270+75
0.0808
270+85
0.2580
SLOPE C
STATION
0.0423
270+75
0.0488
270+85
0.038
271+00
0.038
274+00
INSIDE FACE OF PARAPET
92°-19'-04"
1° JOINT
87°-40'-56"
5-#5d4
9"
10½"
7½"
10"
1'-0"
1'-6"
d2 see below parapet
d1 below parapet
d2 see 231
#6g7
#5b40
#5b6
L #5b104
#5d4 @1'-0" MAX. (ALT. WITH d2)
#5d5 @1'-0" MAX.
#5d6 @1'-0" MAX. (ALT. WITH d2)
#4d3 @1'-0" MAX.
#5d2 @1'-0" MAX.
#4d1 @1'-0" MAX.
#5d3 @1'-0" MAX.
#5d5 @1'-0" MAX.
#5d6 @1'-0" MAX. (ALT. WITH d2)
#4d3 @1'-0" MAX. (INSIDE FACE)
#4d3 @1'-0" MAX. (OUTSIDE FACE)
#4d @1'-0" (OUTSIDE FACE)
#5d2 @1'-0" MAX. (INSIDE FACE)
#4d3 @1'-0" MAX. (OUTSIDE FACE)
#5d2 @1'-0" MAX. (ALT. WITH d5)
#5d4 @1'-0" MAX. (ALT. WITH d5)
#5d5 @1'-0" MAX.
#5d6 @1'-0" MAX. (ALT. WITH d5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	198
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-160



P L A N

NOT TO SCALE

* - FOR LOCATION OF d_2, d_4, d_5 & d_6 BARS IN MEDIAN, SEE DWG. S-161

NOTES - FOR LOCATION OF DECK DRAINS, SEE GENERAL PLAN, DWG. S-5
FOR DETAILS OF DECK DRAINS, SEE DWG. D-1
FOR DETAIL OF PARAPET AT LIGHT STANDARD, SEE DWG. S-172.
WORK THIS SHEET WITH DWG S-161.
FOR METHOD OF DETERMINING FILLET HEIGHTS, SEE DWG. S-159.
FOR RAILING & PARAPET JOINT DETAILS, SEE DWG. S-172.
MARKS (A) THRU (E) INDENTIFY PARAPET PANELS FOR REINF. SEE DWG S-163.
ALL LONGIT. DIMENSIONS GIVEN ALONG INSIDE FACE OF PARAPET.
FOR REINF AT DECK DRAINS, SEE DWG S-164.

NOTE:
BARS INDICATED THUS: 39 - 20 - #5 ETC CALL FOR 39 LINES OF BARS WITH 20 LENGTHS PER LINE.
FOR HOLD DOWN ASSEMBLY, SEE DWG. S-125.

** - DEPENDING ON THE DIRECTION OF THE POUR ONLY ONE TRANSVERSE JOINT WILL BE ALLOWED ON EITHER SIDE OF THE PIER. A POUR MAY BE STOPPED BY A HEADER BOARD ONLY AFTER THE MAJOR PORTION OF A SPAN HAS BEEN POURED.

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY E A BEAL
DRAWN BY J S ALLEMAN
CHECKED W K HAUK
IN CHARGE E/S MARTINS
APPROVED W C HORN

DECK SLAB - UNIT "H" PLAN

F.A.I. 74 - SECTION 81-1HVB-1
MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 136 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

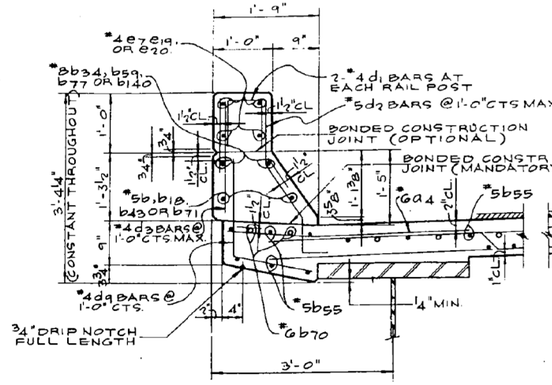
SHEET NO. SX145 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	764
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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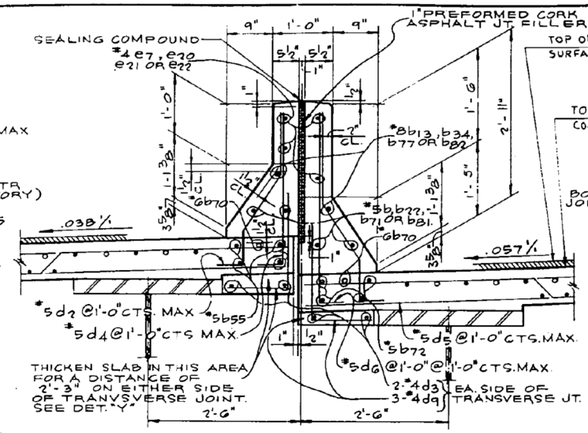
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1HVB-1	ROCK ISLAND	389	193
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-74		

DWG. NO. S-161



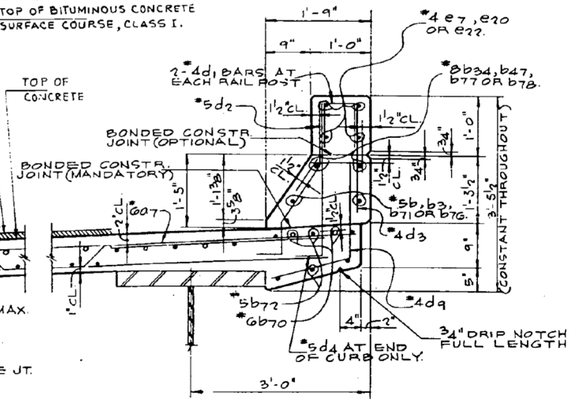
WEST FASCIA CURB SECTION

SCALE: 1" = 1'-0"



MEDIAN CURB SECTION

SCALE: 1" = 1'-0"

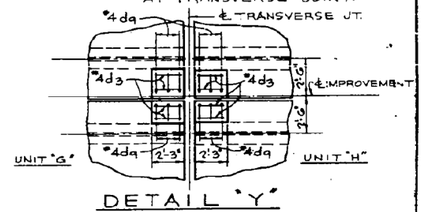


EAST FASCIA CURB SECTION

SCALE: 1" = 1'-0"

REINFORCING BAR LIST				
BAR MARK	QUANTITY OF BARS	BAR SIZE	LENGTH	SHAPE
A6	635	6	4- 0	
A7	648	6	4- 0	
A118	1283	5	42- 6	
A161	2564	5	42- 0	
A203	36	5	4- 6	
B	48	5	28- 7	
B3	12	5	28- 3	
B13	10	8	31- 6	
B18	10	5	26- 3	
B22	24	5	25-10	
B34	24	8	35- 9	
B43	10	5	28- 0	
B47	10	8	34- 4	
B55	1680	5	30- 4	
B59	8	8	35- 3	
B70	492	6	31- 0	
B71	32	5	35- 9	
B72	1680	5	31- 0	
B73	78	5	3- 4	
B76	10	5	25- 9	
B77	30	8	34- 8	
B78	8	8	32- 5	
B81	20	5	26- 0	
B82	8	8	32- 9	
B140	8	8	33- 0	
B259	32	5	4- 9	
D1	256	4	2- 3	
D2	1792	5	3- 8	
D3*	1231	4	2- 0	
D4	608	5	3- 2	
D5	576	5	4- 1	
D6	608	5	3- 9	
D9*	1101	4	2-11	
D10	12	6	9- 3	
D11	9	6	4- 0	
E7	108	4	18- 1	
E19	28	4	19- 0	
E20	160	4	17- 8	
E21	32	4	18- 4	
E22	56	4	17- 5	

* - INCLUDES BARS ON UNIT "G" PORTION OF THICKENED SLAB AT TRANSVERSE JOINT.

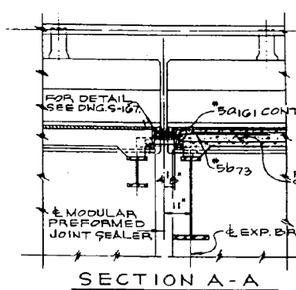


DETAIL 'Y'

SCALE: 1" = 1'-0"

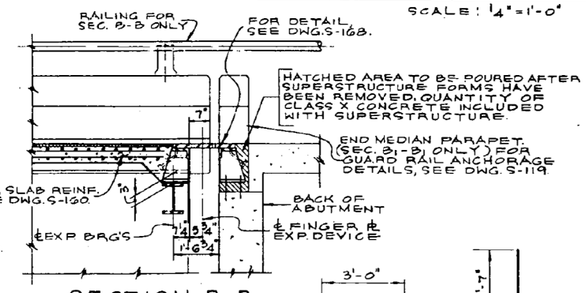
CROSS SECTION (LOOKING NORTH)

SCALE: ¼" = 1'-0"



SECTION A-A

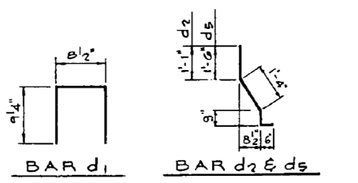
SCALE: ½" = 1'-0"

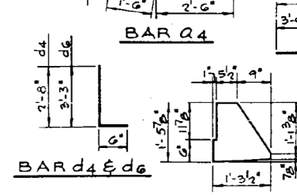


SECTION B-B

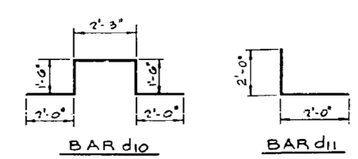
SECTION B1-B1 (SIMILAR BUT OMIT RAILING)

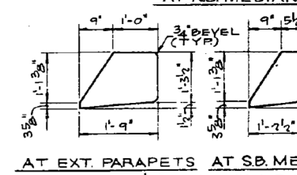
SCALE: ½" = 1'-0"





BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS "X" CONCRETE	CU. YD	1443.6
REINFORCEMENT BARS	POUND	342,809
ALUMINUM RAILING	L.IN.FT.	1168
PROTECTIVE COAT	SQ.YD.	865
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	426
COAL TAR INTERLAYER PROTECTIVE COAT	SQ.YD.	3052





DETAIL OF ⅛" ALUMINUM SHEETS (ASTM B209 ALLOY 3003H14)

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

DECK SLAB - UNIT "H" SECTIONS AND DETAILS

F.A.I. 74 - SECTION 81-1HVB-1

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

5-6-

benesch

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 137 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

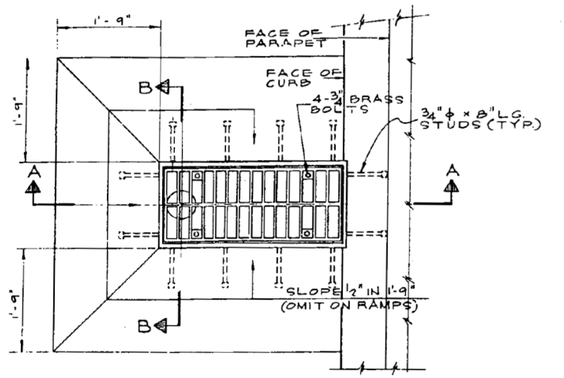
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY

SHEET NO. SX146 OF SX150 SHEETS

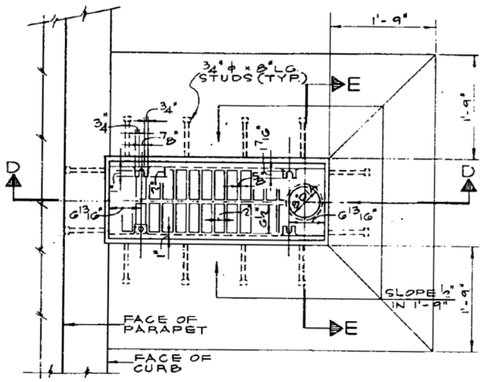
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	765
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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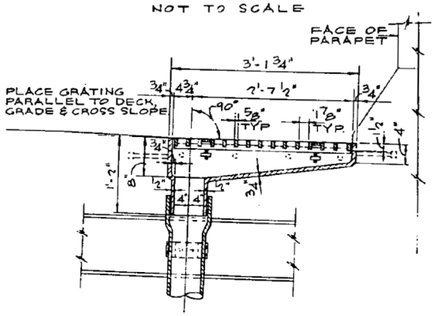
PLAN OF DRAIN - TYPE "A" (UNITS "F" & "G")

NOT TO SCALE



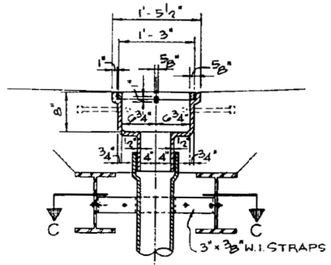
PLAN OF DRAIN - TYPE "B" (UNIT "H")

NOT TO SCALE



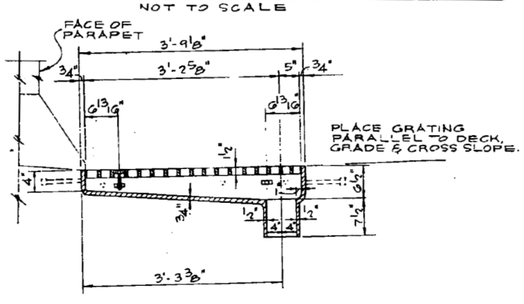
SECTION A-A

NOT TO SCALE



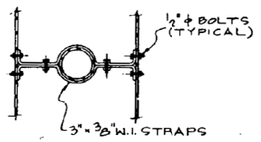
SECTION B-B

NOT TO SCALE



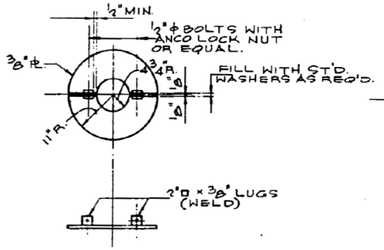
SECTION D-D

NOT TO SCALE



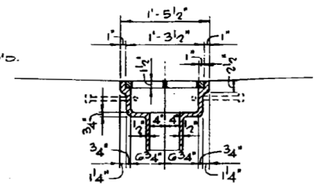
SECTION C-C

NOT TO SCALE



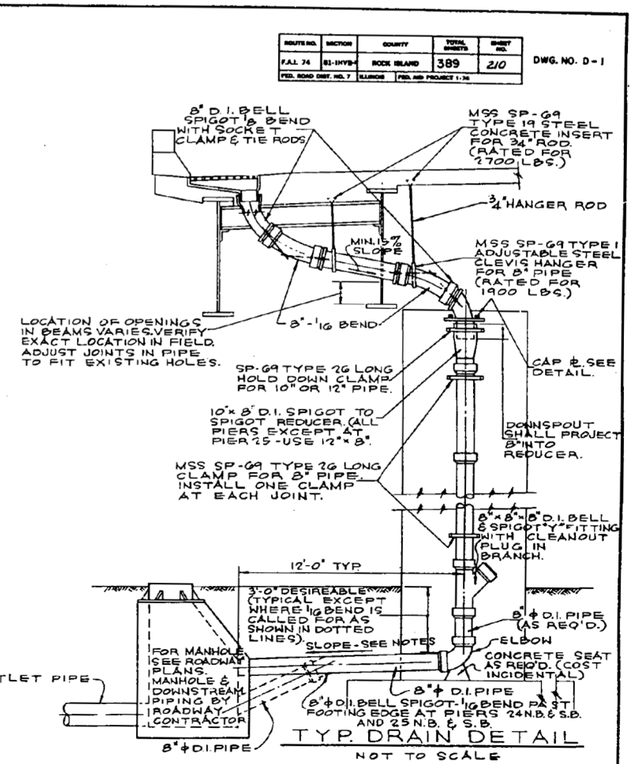
CAP PLATE DETAIL

NOT TO SCALE



SECTION E-E

NOT TO SCALE



TYP. DRAIN DETAIL

NOT TO SCALE

ALL PIPE HANGER AND SUPPORT TYPES TAKEN FROM THE "MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY" STANDARD PRACTICE BULLETIN NO. SP-69 1966 EDITION.

NOTES:

BRIDGE DRAINAGE SYSTEM INCLUDES ALL SCUPPERS, DOWNSPOUTS, PIPES, FITTINGS, CLAMPS, HANGERS AND ALL OTHER MATERIAL REQUIRED FOR COMPLETE INSTALLATION OF DECK DRAINAGE SYSTEM AS SHOWN.

ALL SCUPPERS, PIPES, AND FITTINGS SHALL BE DUCTILE IRON.

USE MAXIMUM POSSIBLE SLOPE ON ALL 8" ϕ D.I. PIPE, ALWAYS EXCEEDING 1/2" PER FT.

BRIDGE DRAINAGE SYSTEM WORK SHALL START AT STA. 226+50

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM, VIADUCT	L.S.	1

PAINTING BRIDGE DRAINAGE SYSTEM

Exposed Portions Of The Drainage Systems Below The Deck Shall Be Cleaned And Painted As Follows:

1. Cleaning by wire brushing.
2. The Prime Coat shall be the Basic Lead Silico-Chromate shop primer.
3. Portions of system against structural steel shall be given the Basic Lead Silico-Chromate field coats as specified for structural steel.
4. Portions of System against concrete shall be given two coats of aluminum paint.

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY M. WATSON
DRAWN BY G. P. ALLEMAN
CHECKED
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	389	210
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-36		

DWG. NO. D-1

DECK DRAINAGE DETAILS

F.A.I. 74 - SECTION 81-1HVB-1

MOLINE VIADUCT

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

AB 8156

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
MODEL: 138 Contract AB	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

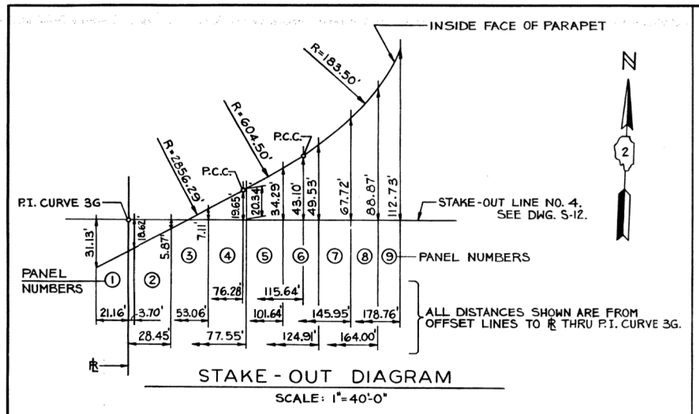
STRUCTURE REMOVAL PLANS
EXISTING VIADUCT PLANS – FOR INFORMATION ONLY
SHEET NO. SX147 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	766
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

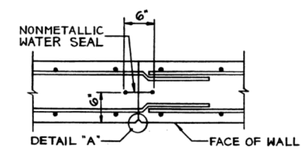
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DWG. NO. W-1

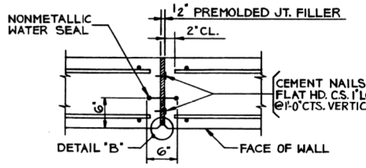
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1-1	ROCK ISLAND	298	206
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		



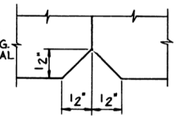
STAKE - OUT DIAGRAM
SCALE: 1"=40'-0"



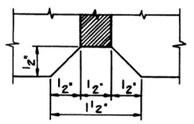
CONTRACTION JOINT
SCALE: 1"=1'-0"



EXPANSION JOINT
SCALE: 1"=1'-0"

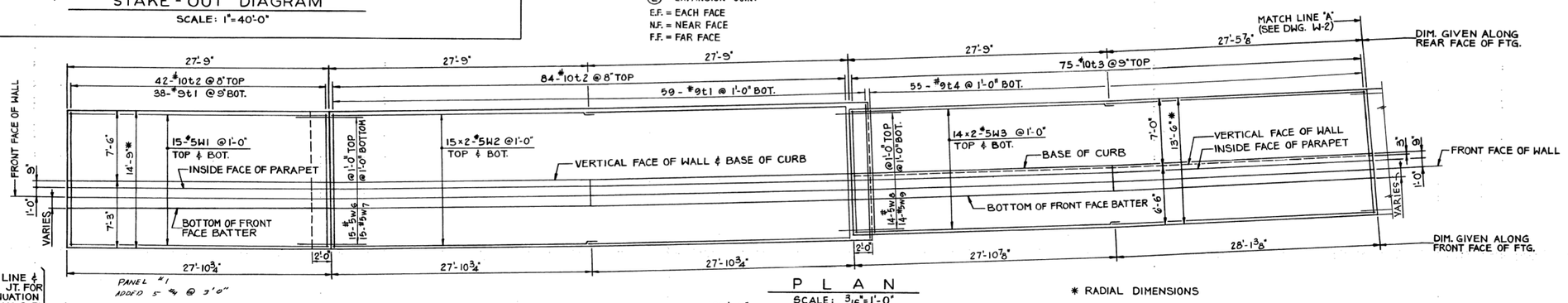


DETAIL "A"
FULL SCALE



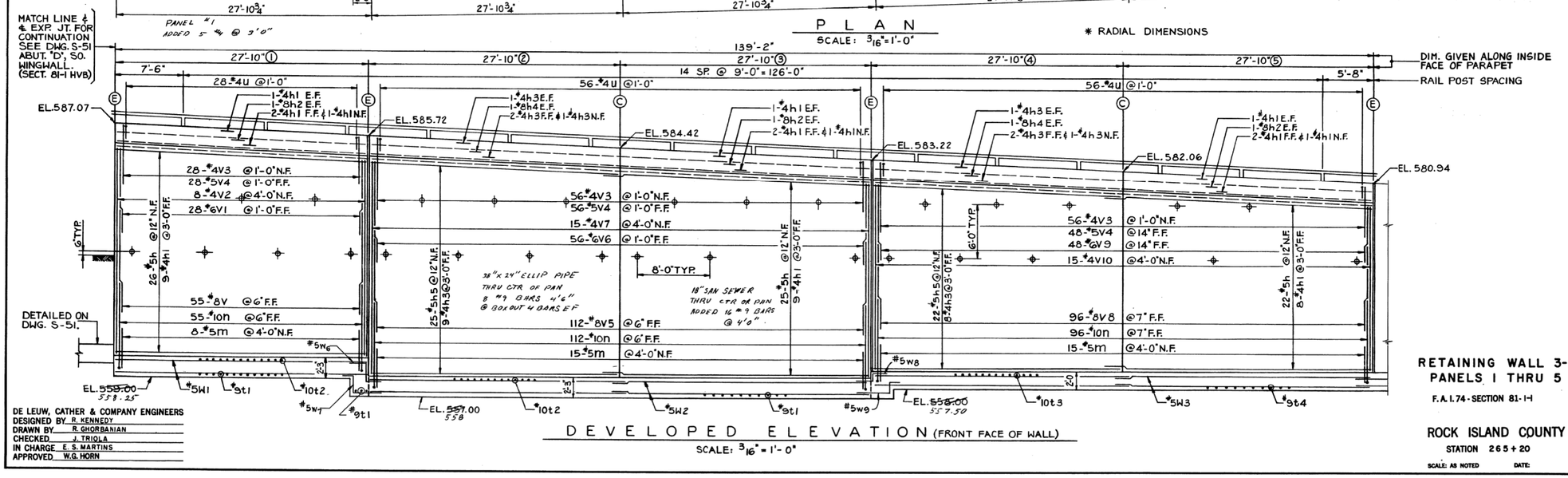
DETAIL "B"
FULL SCALE

LEGEND
Ⓒ = CONTRACTION JOINT
Ⓔ = EXPANSION JOINT
E.F. = EACH FACE
N.F. = NEAR FACE
F.F. = FAR FACE



P L A N
SCALE: 3/16"=1'-0"

* RADIAL DIMENSIONS



D E V E L O P E D E L E V A T I O N (FRONT FACE OF WALL)
SCALE: 3/16" = 1'-0"

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

RETAINING WALL 3-N
PANELS 1 THRU 5

F.A.I.74 - SECTION 81-1-1

ROCK ISLAND COUNTY
STATION 265+20
SCALE: AS NOTED DATE:

K & E CO. 10-8188

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 139 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

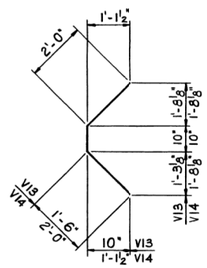
STRUCTURE REMOVAL PLANS
EXISTING RETAINING WALL PLANS – FOR INFORMATION ONLY
SHEET NO. SX148 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	767
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

c:\pwise-work\do_not_delete\dms04543\0810178-A0321-002-Contract AB Demo_Rasters.brg
1/18/2017 4:52:21 PM

DWG. NO. W-2

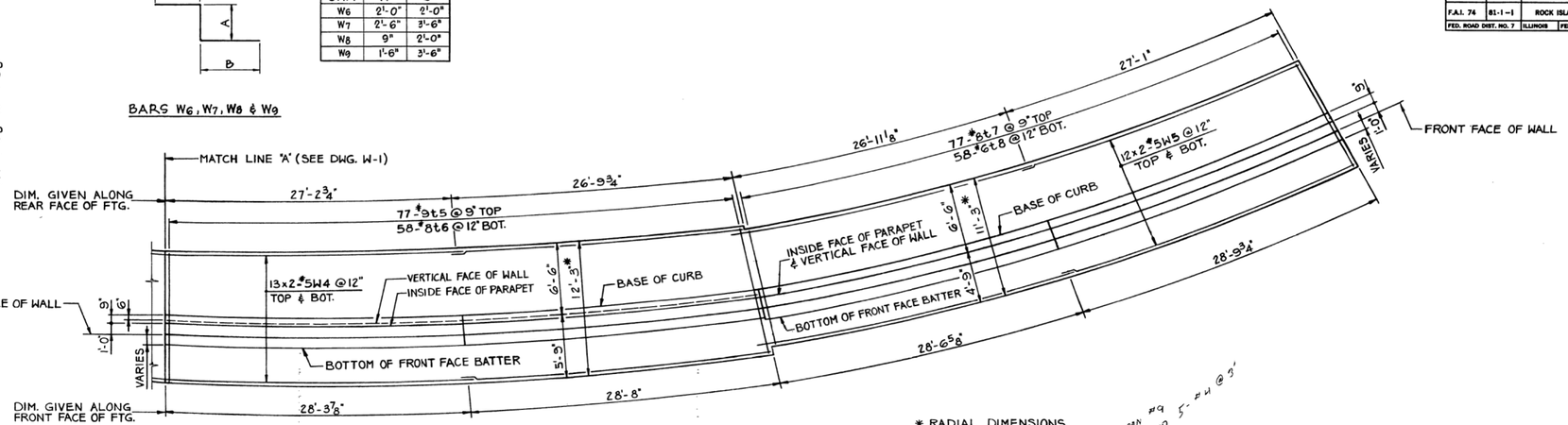
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1-1	ROCK ISLAND	298	207
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		



BAR V13 & V14

BAR	A	B
W6	2'-0"	2'-0"
W7	2'-6"	3'-6"
W8	9"	2'-0"
W9	1'-6"	3'-6"

BARS W6, W7, W8 & W9

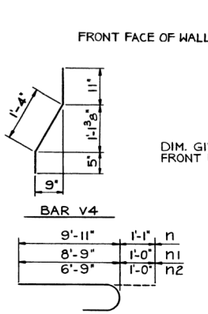


* RADIAL DIMENSIONS

PLAN

SCALE: 3/16" = 1'-0"

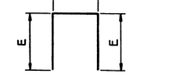
BAR V4



DEVELOPED ELEVATION (FRONT FACE OF WALL)

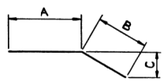
SCALE: 3/16" = 1'-0"

BAR n, n1 & n2



BAR u, u1 & u2

BAR	D	E
U	8"	9"
U1	8"	1'-10"
U2	8"	2'-0"



BAR V1, V6, V9 & h6

BAR	A	B	C
V1	9'-9"	1'-6"	10⅛"
V6	11'-3"	1'-6"	10⅛"
V9	9'-0"	1'-6"	10⅛"
h6	1'-10"	5'-0"	1'-5"

BAR LIST

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
h	110	5	27'-6"	—	T1	97	9	14'-6"	—	V	55	8	10'-6"	—	V 11	224	7	8'-3"	—
h1	64	4	27'-6"	—	T2	126	10	14'-6"	—	V1	28	6	11'-3"	◺	V 12	112	5	7'-6"	—
h2	10	8	27'-6"	—	T3	75	10	13'-3"	—	V2	8	4	22'-0"	—	V 13	56	5	4'-4"	⟨
h3	50	4	29'-0"	—	T4	55	9	13'-3"	—	V3	252	4	5'-0"	—	V 14	56	5	4'-10"	⟨
h4	8	8	30'-0"	—	T5	77	9	12'-0"	—	V4	132	5	2'-8"	◸	V 15	15	4	16'-3"	—
h5	84	5	29'-3"	—	T6	58	8	12'-0"	—	V5	112	8	9'-6"	—	V 16	15	4	14'-3"	—
h6	2	5	6'-10"	◹	T7	77	8	11'-0"	—	V6	56	6	12'-9"	◹	W1	30	5	27'-6"	—
m	68	5	3'-3"	—	T8	58	6	11'-0"	—	V7	15	4	21'-9"	—	W2	60	5	28'-6"	—
n	263	10	11'-0"	⊃	U	140	4	2'-2"	⊓	V8	96	8	8'-6"	—	W3	56	5	28'-3"	—
n1	112	9	9'-9"	⊃	U1	106	4	4'-4"	⊓	V9	48	6	10'-6"	◹	W4	52	5	30'-6"	—
n2	112	9	7'-9"	⊃	U2	7	5	4'-8"	⊓	V10	15	4	18'-9"	—	FOR ADDITIONAL BARS, SEE RIGHT.				

BAR LIST (CONT.)

BAR	NO.	SIZE	LENGTH	SHAPE
W5	48	5	29'-3"	—
~~W6~~	~~15~~	~~5~~	~~5'-6"~~	⊐
~~W7~~	~~15~~	~~5~~	~~7'-6"~~	⊐
W8	27 14	5	4'-3"	⊐
W9	27 14	5	6'-6"	⊐

BILL OF MATERIAL *

ITEM	UNIT	QUANTITY
CLASS 'A' EXCAVATION FOR STRUCTURES	CU. YD.	2125
CLASS 'X' CONCRETE	CU. YD.	625.3
REINFORCEMENT BARS	POUND	80,628
ALUMINUM RAILING	LIN. FT.	244
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	64
PROTECTIVE COAT	SQ. YD.	100
* INCLUDES ALL CONSTRUCTION SHOWN ON DRAWINGS W-1, W-2 & W-3		

RETAINING WALL 3-N
PANELS 6 THRU 9

F.A.I. 74 - SECTION 81-1-1

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

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

K&E CO. 10-0188

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 0810178-A0321-002-Contract AB Demo_Rasters.brg	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL: 140 Contract AB	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING RETAINING WALL PLANS – FOR INFORMATION ONLY

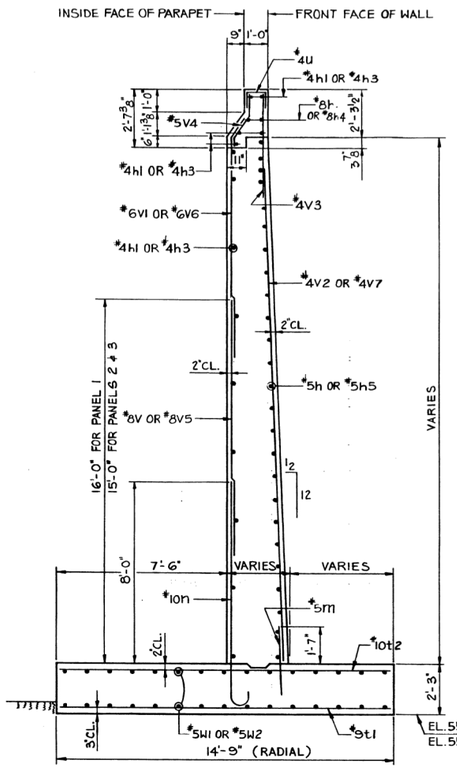
SHEET NO. SX149 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	768
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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DWG. NO. W-3

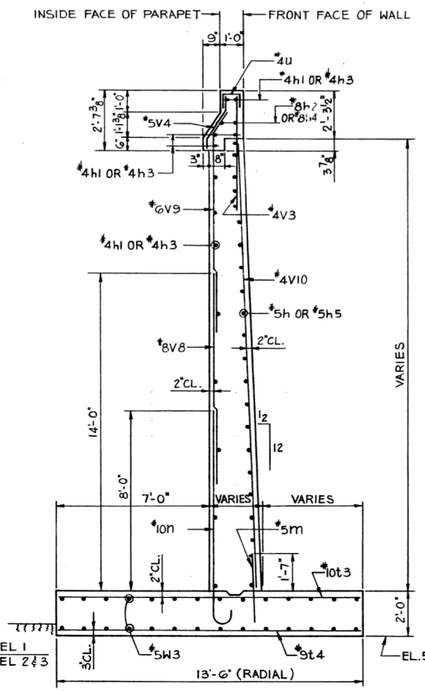
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	81-1-1	ROCK ISLAND	298	208
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 1-74		



PANELS (1), (2) & (3)

SCALE : 3/8" = 1'-0"

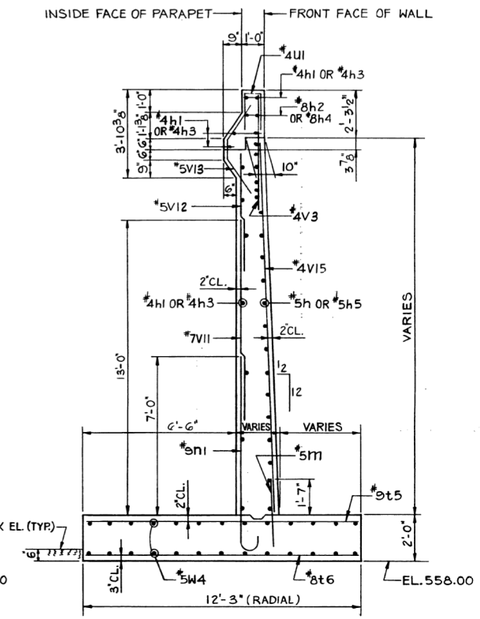
MAX. TOE PRESSURE = 5,900 P.S.F.



PANELS (4) & (5)

SCALE : 3/8" = 1'-0"

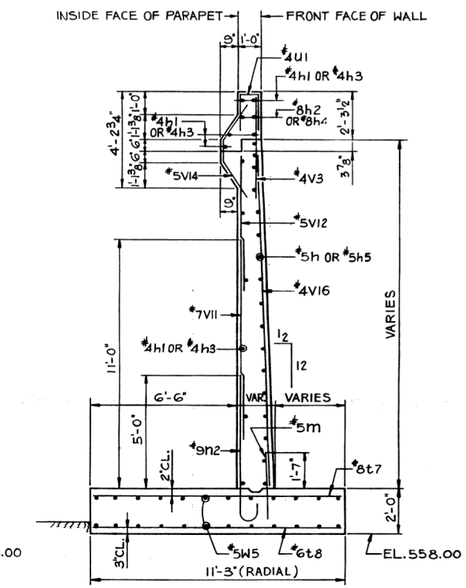
MAX. TOE PRESSURE = 5,400 P.S.F.



PANELS (6) & (7)

SCALE : 3/8" = 1'-0"

MAX. TOE PRESSURE = 4,900 P.S.F.



PANELS (8) & (9)

SCALE : 3/8" = 1'-0"

MAX. TOE PRESSURE = 4,500 P.S.F.

NOTE : MIN. BAR LAP = 24 DIA.

RETAINING WALL 3-N
CROSS SECTIONS

F.A.I. 74 - SECTION 81-1-1

ROCK ISLAND COUNTY

STATION 265+20

SCALE: AS NOTED DATE:

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

K & E CO. 10-0138

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FOR INFORMATION ONLY

FILE NAME = 8818178-A0321-002-Contract AB Demo_Rosters.brg
MODEL: 141 Contract AB

USER NAME = ksnider	DESIGNED - AWH	REVISED -
	CHECKED - AJK	REVISED -
PLOT SCALE =	DRAWN - KMS	REVISED -
PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL PLANS
EXISTING RETAINING WALL PLANS – FOR INFORMATION ONLY

SHEET NO. SX150 OF SX150 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	769
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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Bench Mark: Chiseled "X" in base of traffic light at southeast corner of intersection of 19th Street and 7th Avenue. Elevation NAVD 88 = 589.227

Existing Structures: The existing structures were built in 1975 as F.A.I. Route 74. S.N. 081-0142 and S.N. 081-0143. The existing dual structures consisted of 26 spans of reinforced concrete deck on mutiple steel plate girders. The total length of existing structures is ±2860'. The deck width is variable with Typical width of 42'-0" for each structure. Structures to be removed and replaced. No salvage.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1})=0.06g
Design Spectral Acceleration at 0.2 sec. (S_{DS})=0.10g
Soil Site Class=C

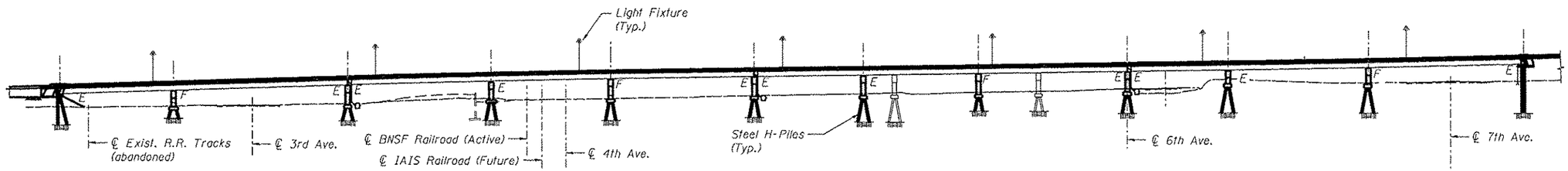
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

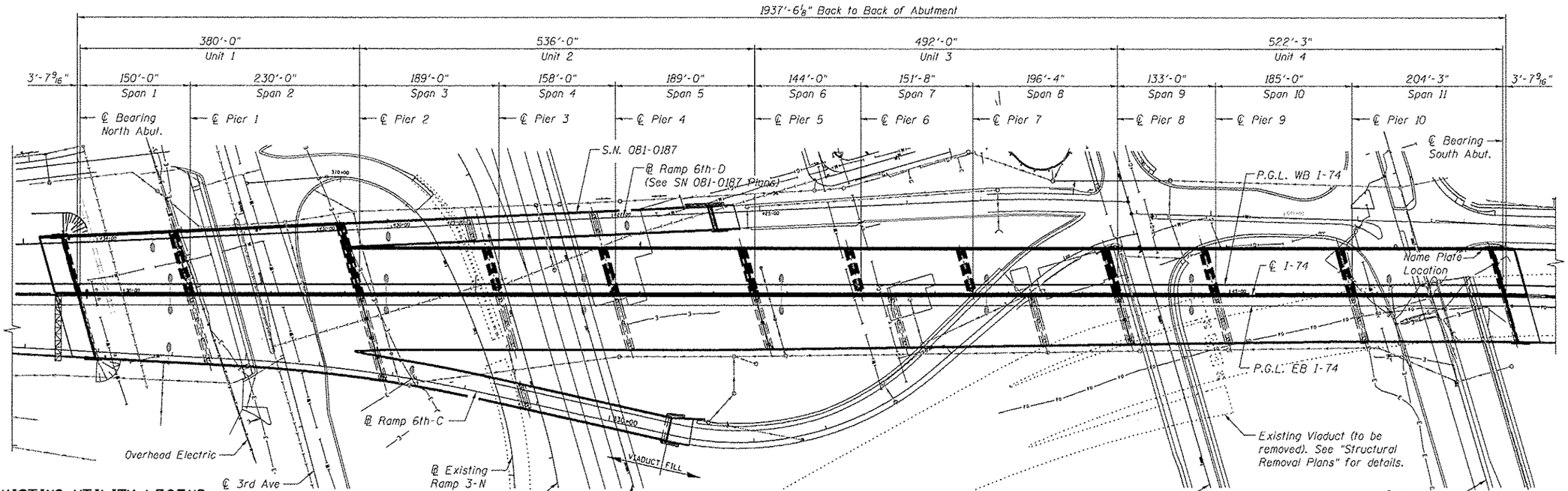
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)



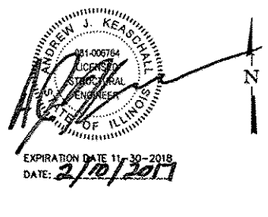
ELEVATION

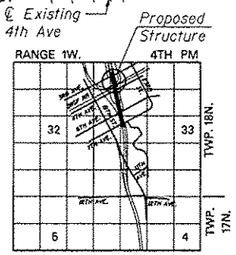


EXISTING UTILITY LEGEND

- Underground Sanitary Sewer
- Underground Storm Sewer
- Underground Telephone
- Underground Gas Line
- Underground Fiber Optic
- Underground Water
- Overhead Electric

Note: See roadway and lighting plans for existing and proposed utilities





LOCATION SKETCH

PLAN

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

GENERAL PLAN - SHEET 1 OF 5
I-74 OVER IL. RTE. 92 AND BNSF R.R.
FAI-74 SECTION (81-1HVB)
ROCK ISLAND COUNTY
STATION 36+16.49
STRUCTURE NO. 081-0177 (W.B.)

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

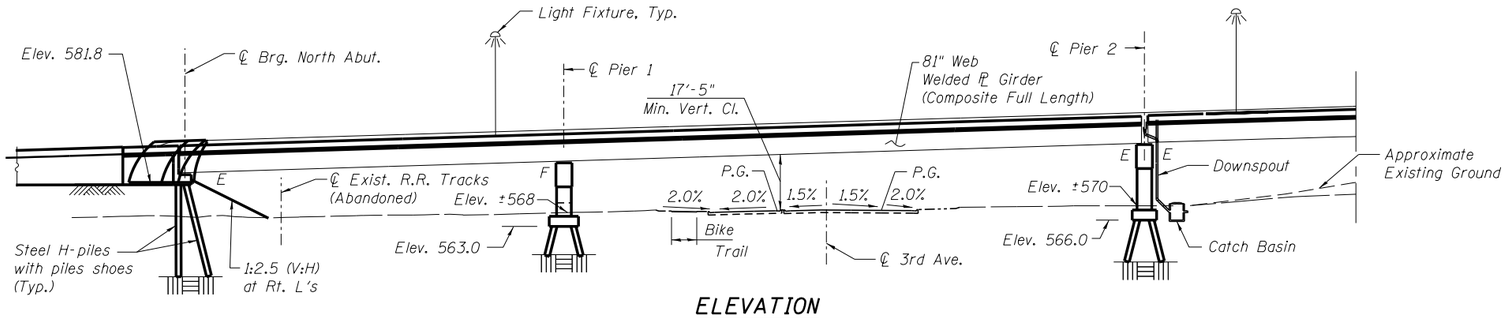
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MODEL = Plan	PLOT SCALE =	DRAWN - VH	REVISED -
	PLOT DATE = 1/20/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

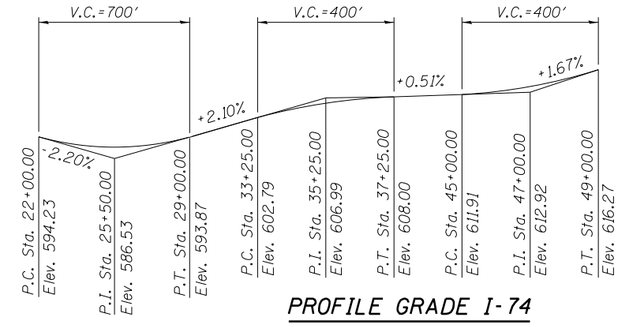
OVERALL GENERAL PLAN AND ELEVATION
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S1 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	770
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

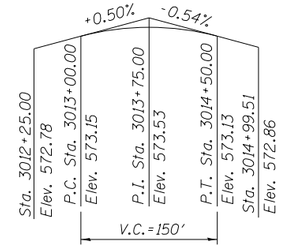
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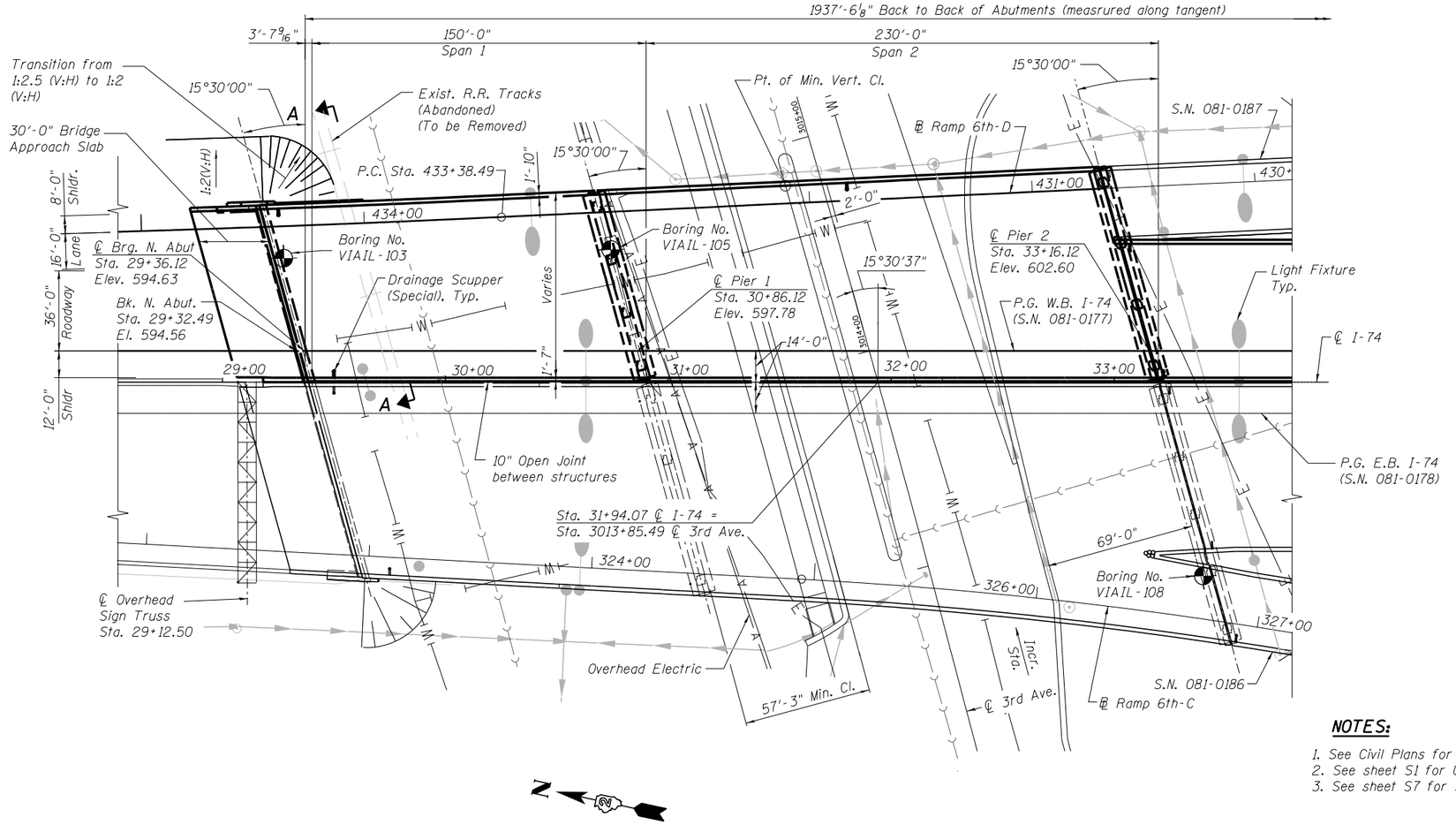
ELEVATION



PROFILE GRADE I-74



PROFILE GRADE 3RD AVE.



PLAN

NOTES:

1. See Civil Plans for Drainage and Utility information.
2. See sheet S1 for Utility Legend.
3. See sheet S7 for Section A-A.

GENERAL PLAN - SHEET 2 OF 5
I-74 OVER IL. RTE. 92 AND BNSF R.R.
FAI-74 SECTION (81-1HVB)
ROCK ISLAND COUNTY
STATION 36+16.49
STRUCTURE NO. 081-0177 (W.B.)

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

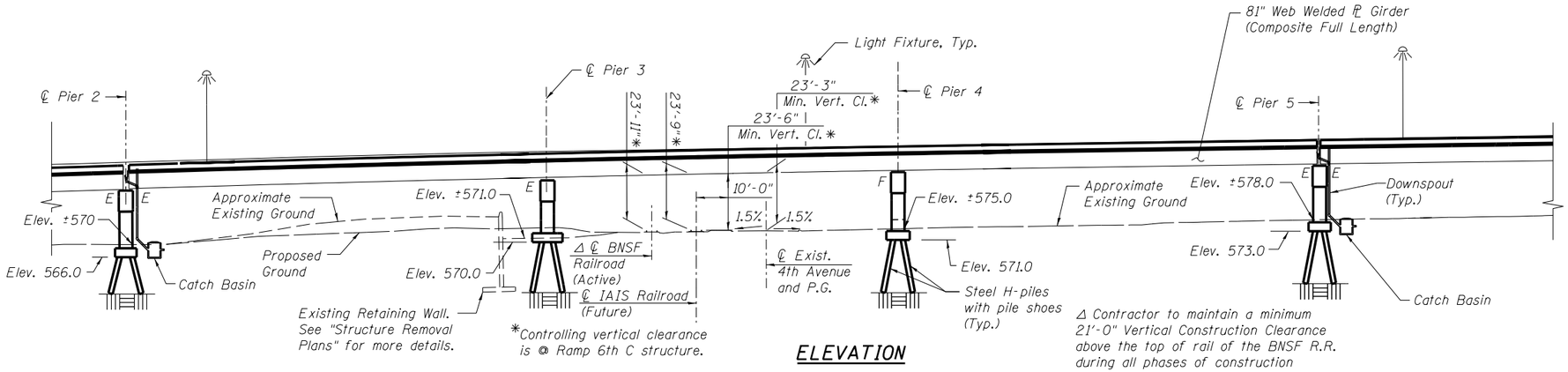
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		CHECKED - AJK	REVISED -
MODEL = I Plan	PLOT SCALE =	DRAWN - VH	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

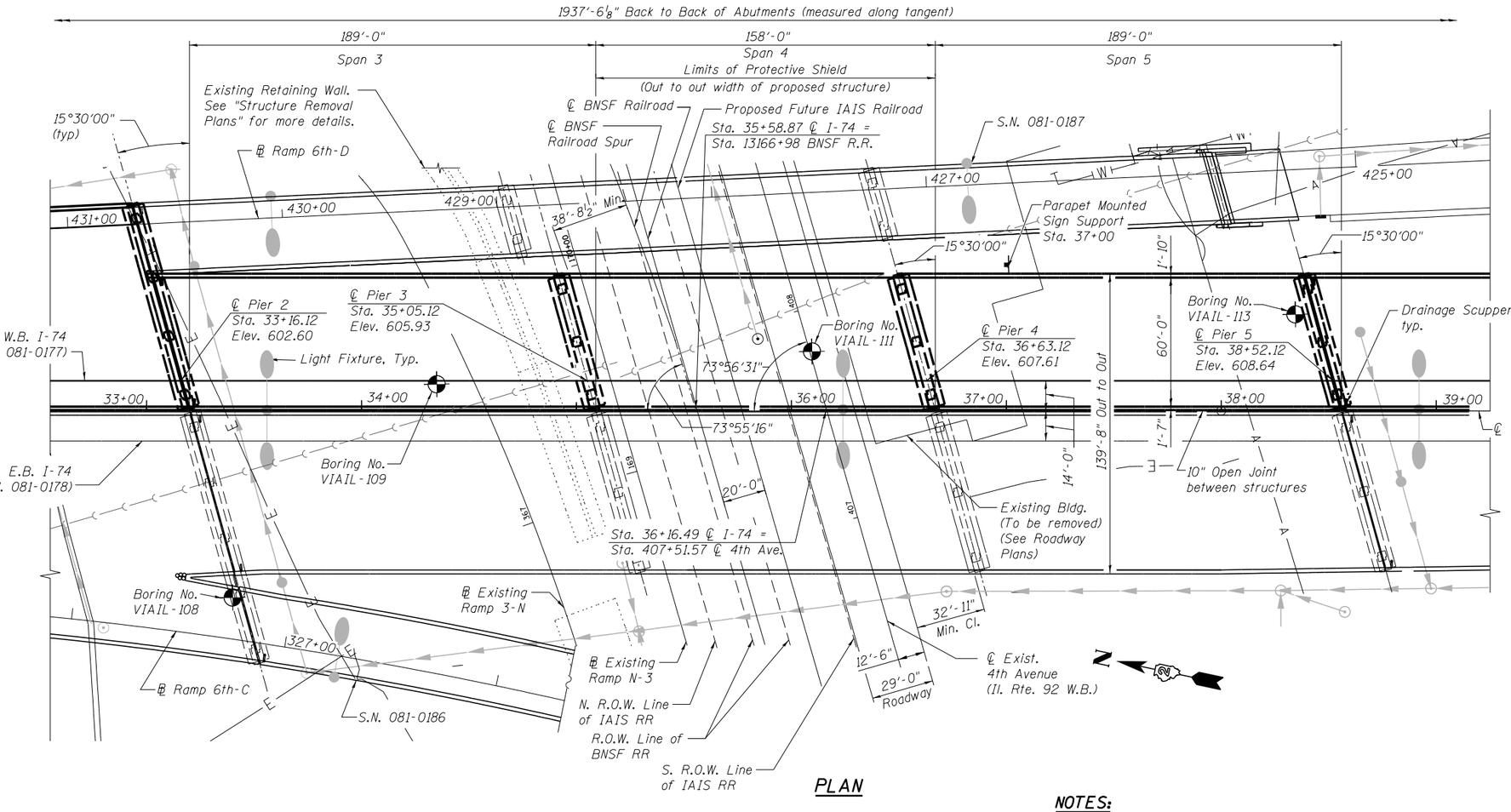
GENERAL PLAN AND ELEVATION – UNIT 1
STRUCTURE NO. 081–0177 (WESTBOUND)
SHEET NO. S2 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	771
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

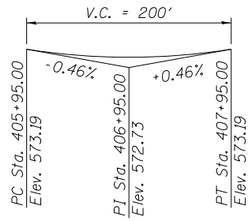
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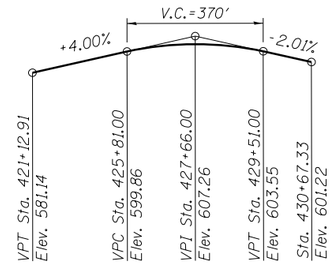
ELEVATION



PLAN



PROPOSED PROFILE GRADE 4TH AVE. (IL. RTE. 92 WB)



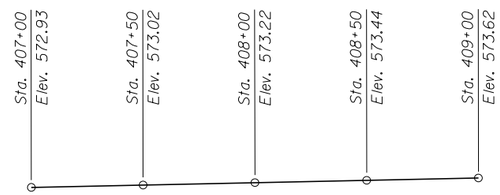
PROFILE GRADE

(Along ℄ Ramp 6th-D)



TOP OF RAIL BNSF R.R

BNSF Sta. 13166+98 = Mile Post 249.37



EXISTING PROFILE GRADE 4TH AVE.

GENERAL PLAN - SHEET 3 OF 5
I-74 OVER IL. RTE. 92 AND BNSF R.R.
FAI-74 SECTION (81-1HVB)
ROCK ISLAND COUNTY
STATION 36+16.49
STRUCTURE NO. 081-0177 (W.B.)

NOTES:

1. See Civil Plans for Drainage and Utility information.
2. See sheet S1 for Utility Legend.

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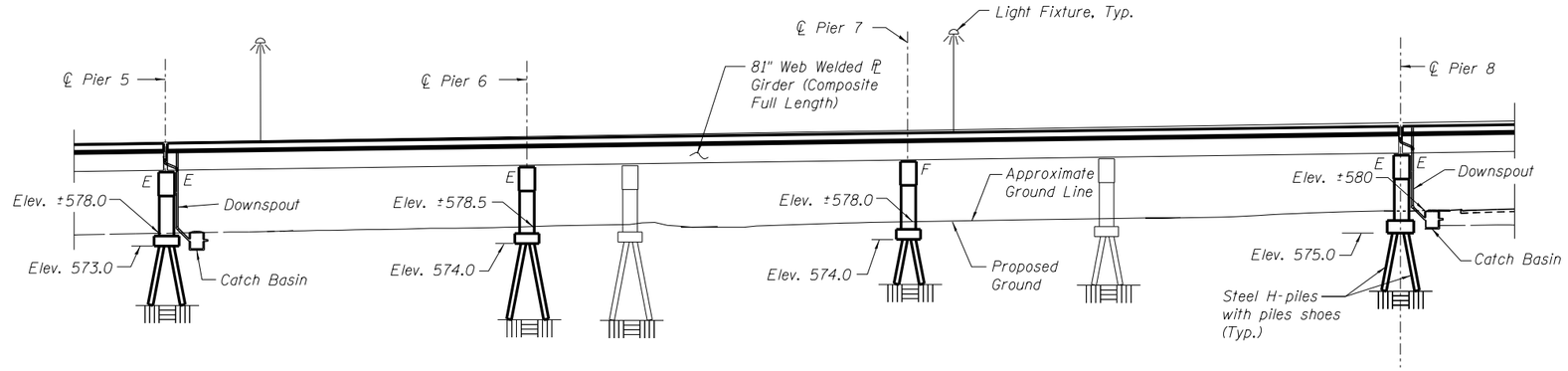
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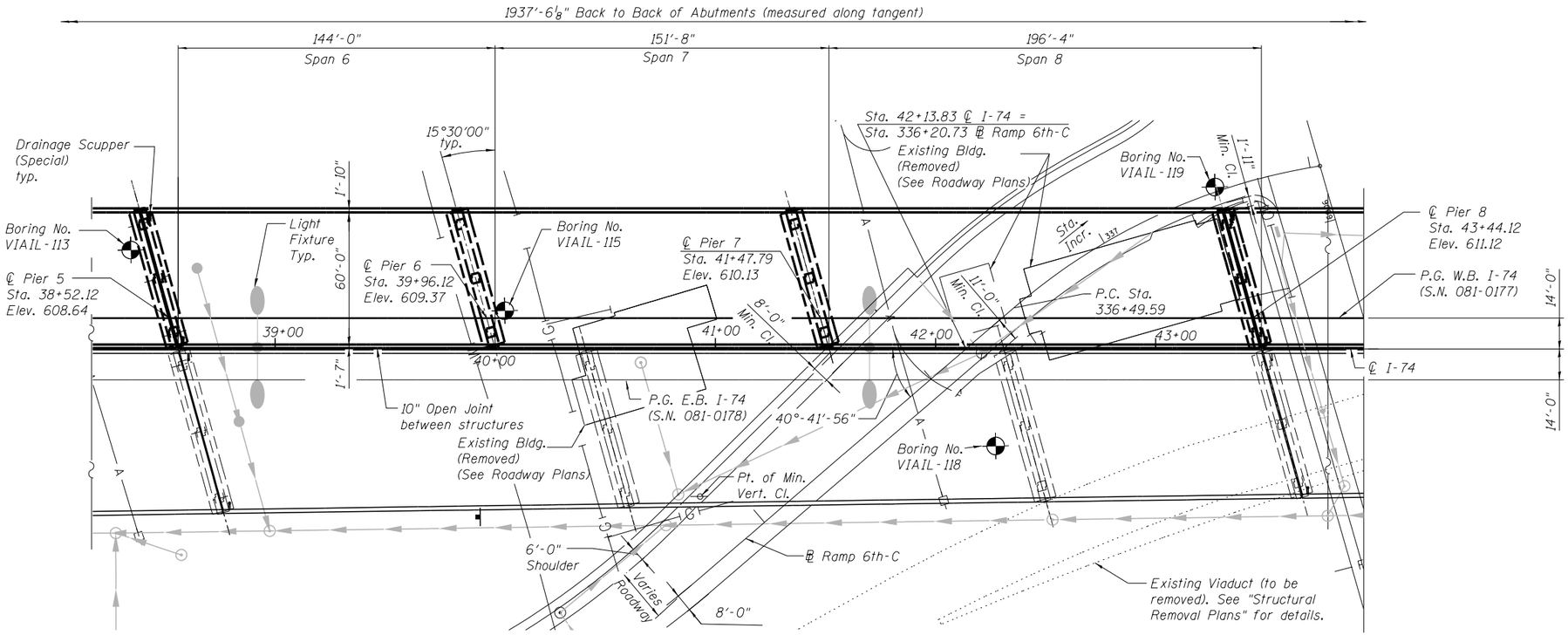
GENERAL PLAN AND ELEVATION – UNIT 2
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S3 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

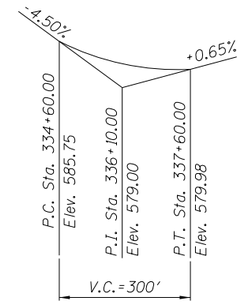
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ELEVATION



PLAN



PROFILE GRADE RAMP 6TH-C

CURVE DATA RAMP 6th-C-4

Δ = 31° 43' 31" (RT)
D = 20° 27' 46"
R = 280.00'
T = 79.56'
L = 155.04'
E = 11.08'
P.C. = Sta. 336+49.59
P.T. = Sta. 338+04.63
P.I. = Sta. 337+29.15
S.E. = Normal Crown

NOTES:

1. See Civil Plans for Drainage and Utility information.
2. See sheet S1 for Utility Legend.

GENERAL PLAN - SHEET 4 OF 5
I-74 OVER IL. RTE. 92 AND BNSF R.R.
FAI-74 SECTION (81-1HVB)
ROCK ISLAND COUNTY
STATION 36+16.49
STRUCTURE NO. 081-0177 (W.B.)

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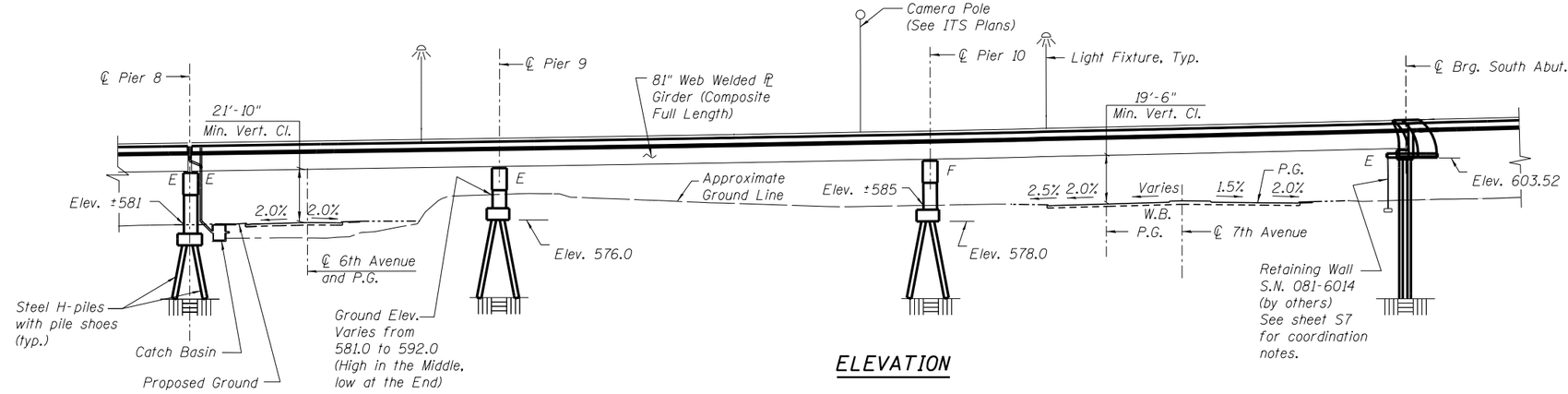
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

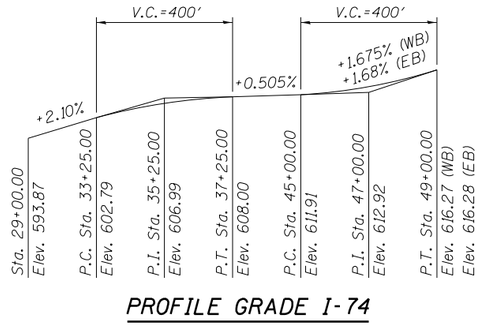
GENERAL PLAN AND ELEVATION – UNIT 3
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S4 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

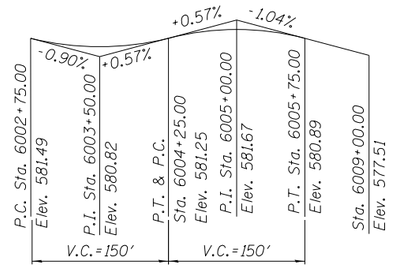
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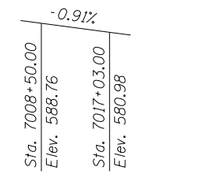
ELEVATION



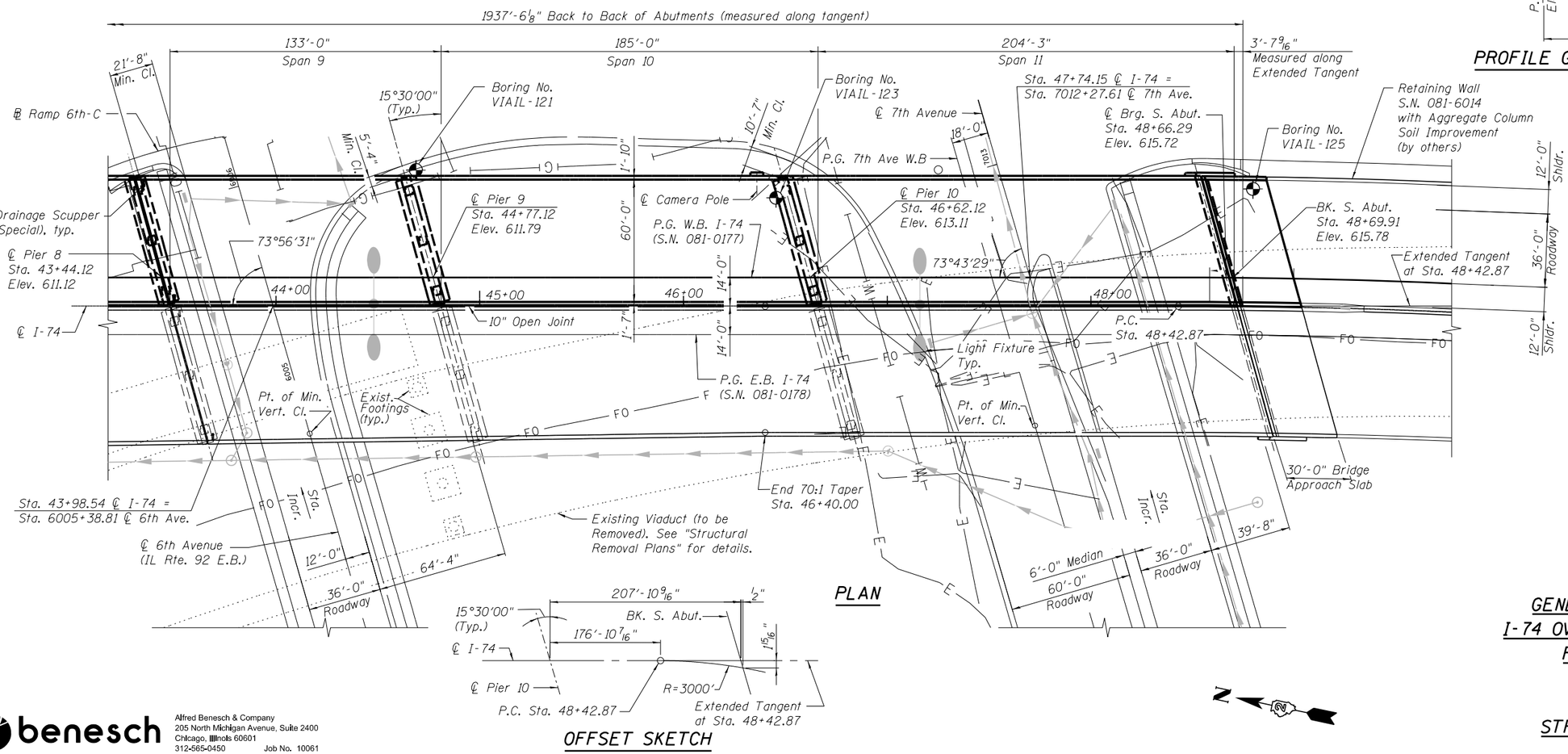
PROFILE GRADE I-74



PROFILE GRADE 6TH AVE. (IL RTE. 92 E.B.)



PROFILE GRADE 7TH AVE.



PLAN

OFFSET SKETCH

NOTES:

1. See Civil Plans for Drainage and Utility information.
2. See sheet S1 for Existing Utility Legend.

GENERAL PLAN - SHEET 5 OF 5
I-74 OVER IL. RTE. 92 AND BNSF R.R.
FAI-74 SECTION (81-1HVB)
ROCK ISLAND COUNTY
STATION 36+16.49
STRUCTURE NO. 081-0177 (W.B.)

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DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION – UNIT 4
STRUCTURE NO. 081–0177 (WESTBOUND)
SHEET NO. S5 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	774
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$", open holes $\frac{15}{16}$", unless otherwise noted.

2. Calculated weight of Structural Steel = 5,614,000 lbs
   M 270 Grade 36: 324,000 lbs
   M 270 Grade 50: 5,290,000 lbs

   The Contractor may substitute Grade 50 for Grade 36 at no additional cost to the Contract.

3. No field welding is permitted except as specified in the contract documents.

4. Reinforcement bars designated (E) shall be epoxy coated.

5. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

7. Concrete Sealer shall be applied to the exposed faces of Piers 2, 5 and 8 and the North and South Abutments.

8. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surfaces and the bottom of the bottom flange of fascia beams, masked off connection surfaces, and field installed fasteners, all of which shall be touched up and finish coated in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1.

   The exterior and bottom flange of the fascia beams and fascia bearings shall be finish coated with a fluoropolymer paint. The color of the final finish coat for the exterior and bottom flange of the fascia beams and bearings shall be Federal Standard 595C Color 26099 (gray-blue). See Special Provision for "Cleaning and Painting Structural Steel".

9. See Civil Plans for limits of special waste.

10. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

11. Slip forming of the median parapet is not allowed. Slip forming of the East Traffic Barrier is allowed.

12. The Contractor shall use self-consolidating concrete (SCC) in all the pier columns. The self-consolidating concrete shall conform to all requirements as specified in Section 1020 of the Standard Specifications. Cost of SCC shall be included with the cost of Concrete Structures.

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S2 General Plan and Elevation - Unit 1
S3 General Plan and Elevation - Unit 2
S4 General Plan and Elevation - Unit 3
S5 General Plan and Elevation - Unit 4
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S7 General Details
S8 Overall Foundation Layout
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S12 Top of Slab Elevations Unit 1 (2 of 4)
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S16 Top of Slab Elevations Unit 2 (1 of 3)
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S119 Soil Boring Logs Pier 10
S120 Soil Boring Logs S. Abutment

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Protective Shield	Sq Yd	1,114	-	1,114
	Structure Excavation	Cu Yd	-	2,124	2,124
	Concrete Structures	Cu Yd	-	2,028.8	2,028.8
	Concrete Superstructure	Cu Yd	4,261.9	-	4,261.9
	Bridge Deck Grooving	Sq Yd	13,887	-	13,887
	Concrete Encasement	Cu Yd	-	6.5	6.5
	Protective Coat	Sq Yd	16,179	-	16,179
*	Furnishing and Erecting Structural Steel	L Sum	0.40	-	0.40
	Stud Shear Connectors	Each	43,826	-	43,826
	Reinforcement Bars, Epoxy Coated	Pound	1,243,730	424,310	1,668,040
	Bar Splicers	Each	143	17	160
	Slope Wall 4 Inch	Sq Yd	-	383	383
	Furnishing Steel Piles HP14x73	Foot	-	4,522	4,522
	Furnishing Steel Piles HP14x89	Foot	-	539	539
	Driving Piles	Foot	-	5,061	5,061
	Test Pile Steel HP14x73	Each	-	11	11
	Test Pile Steel HP14x89	Each	-	1	1
	Pile Shoes	Each	-	284	284
	Name Plates	Each	1	-	1
	Preformed Joint Strip Seal	Foot	145.0	-	145.0
	Finger Plate Expansion Joint, 4"	Foot	218.0	-	218.0
	Elastomeric Bearing Assembly, Type I	Each	25	-	25
	Elastomeric Bearing Assembly, Type II	Each	28	-	28
	Anchor Bolts, 1"	Each	-	362	362
	Concrete Sealer	Sq Ft	-	11,646	11,646
	Geocomposite Wall Drain	Sq Yd	-	100	100
	High Load Multi-Rotational Bearings, Guided Expansion, 300K	Each	11	-	11
	High Load Multi-Rotational Bearings, Guided Expansion, 500K	Each	14	-	14
	High Load Multi-Rotational Bearings, Guided Expansion, 600K	Each	7	-	7
	High Load Multi-Rotational Bearings, Fixed - 600K	Each	7	-	7
	High Load Multi-Rotational Bearings, Fixed - 650K	Each	7	-	7
	High Load Multi-Rotational Bearings, Fixed - 700K	Each	18	-	18
	Granular Backfill For Structures	Cu Yd	-	254	254
	Steel Railing (Special)	Foot	1,960	-	1,960
	Drainage Scuppers (Special)	Each	9	-	9
*	Drainage System	L Sum	-	0.4	0.4
	Pipe Underdrains For Structures 4"	Foot	-	97.0	97.0

* Remainder of this item installed with other structures in this Contract

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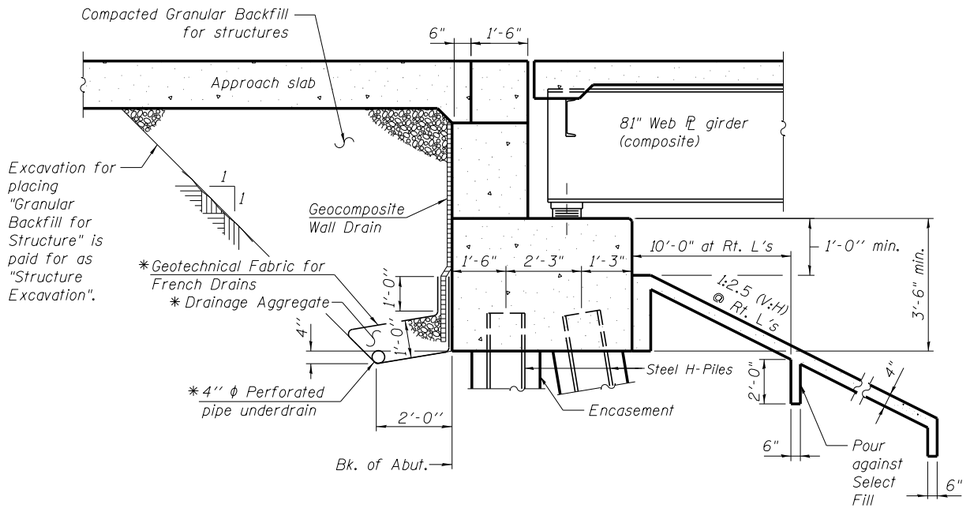
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S6 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	775
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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SECTION THRU PILE SUPPORTED STUB ABUTMENT (NORTH ABUTMENT)

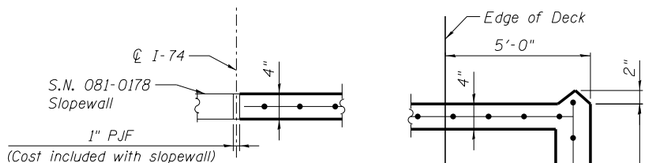
(Horiz. dim. at Rt. L's)

*Included in the cost of Pipe Underdrain Structures. (See Special Provisions)

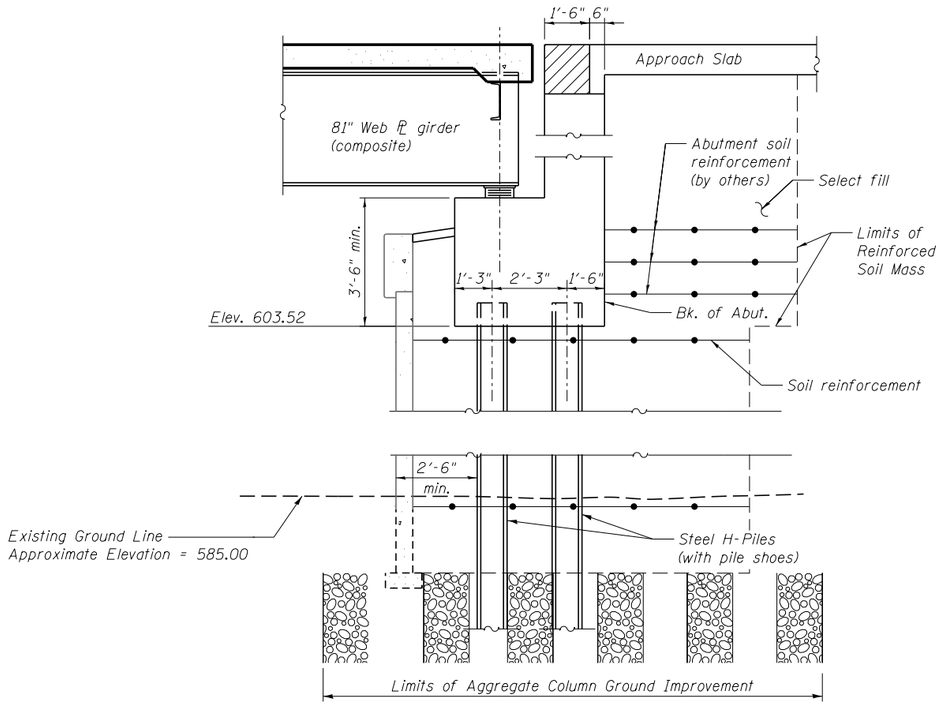
NOTES:

1. All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

2. Slopewall shall be reinforced with welded wire fabric. 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.) Cost included with slopewall.



SECTION A-A



TYPICAL WALL SECTION THRU SOUTH ABUTMENT

(Horizontal dimensions at Rt. L's)

CONTRACTOR COORDINATION REQUIREMENTS AT SOUTH ABUTMENT

"Contractor" (responsible for construction of SN 081-0177) shall coordinate with "Wall Contractor" (responsible for construction of SN 081-6014 in a separate contract). Construction at the South Abutment shall follow the steps outlined below:

CONSTRUCTION SEQUENCE

1. Wall Contractor shall construct Aggregate Column Ground Improvement beneath South Abutment. Aggregate columns will be located such that they do not interfere with the proposed pile locations.
2. Contractor shall drive piles.
3. Wall Contractor shall construct MSE wall and place backfill up to the elevation of the bottom of abutment.
4. Contractor shall construct the abutment. Contractor is responsible for coordinating the type and location of abutment soil reinforcement straps with the Wall Contractor. Wall Contractor is responsible for placing all components of the abutment soil reinforcement straps.
5. See note on sheet S94 regarding maskwall construction sequence.
6. Wall Contractor shall resume and complete construction of MSE Walls and placement of backfill.
7. Contractor shall grade sub-base to proper elevation and construct approach slab.

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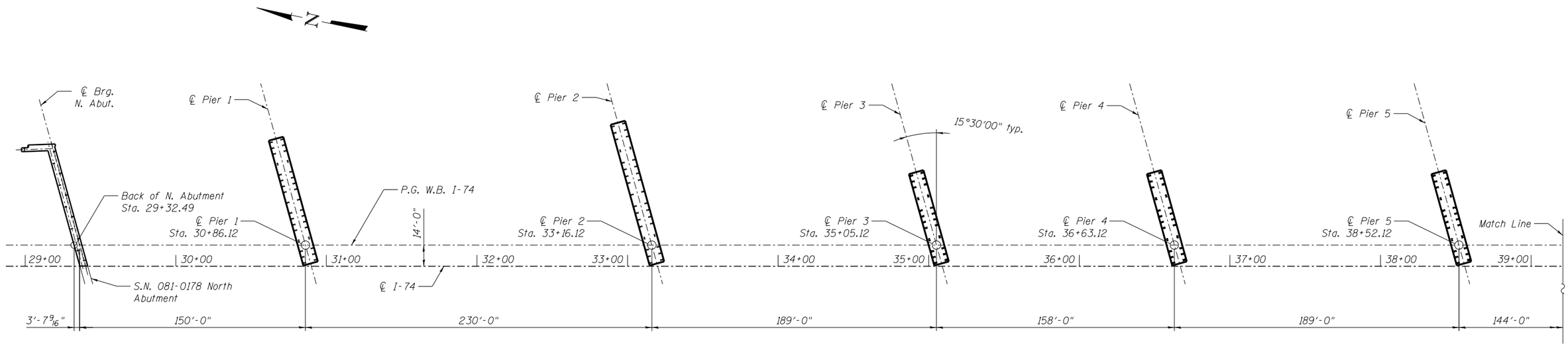
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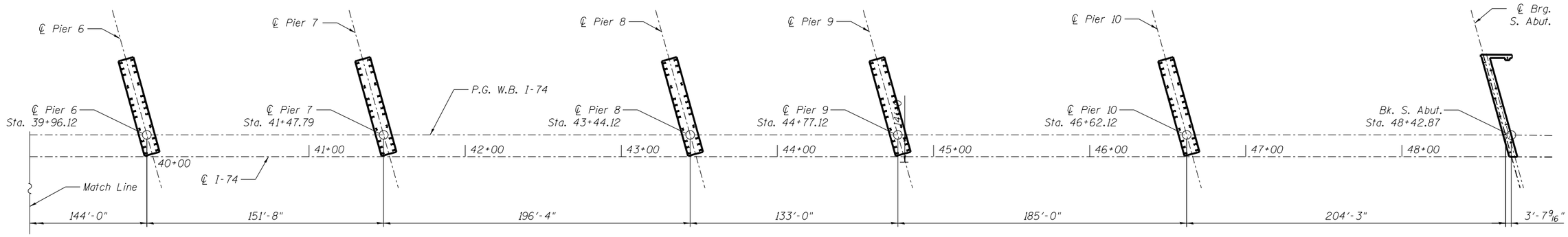
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DEPARTMENT OF TRANSPORTATION

GENERAL DETAILS
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S7 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	776
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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FOUNDATION LAYOUT

NOTES:

1. For pier details, see sheets S95 thru S106.
2. For abutment details, see sheets S85 and S89.

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILENAME = 081-0177-C00AB-008-Overall Foundation Layout.dgn	USER NAME = ksnider	DESIGNED - AWH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL = Default	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERALL FOUNDATION LAYOUT
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S8 OF S120 SHEETS

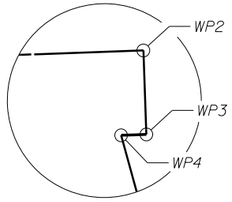
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	777
		CONTRACT NO. 64C08		
		ILLINOIS	FED. AID PROJECT	

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1/18/2017

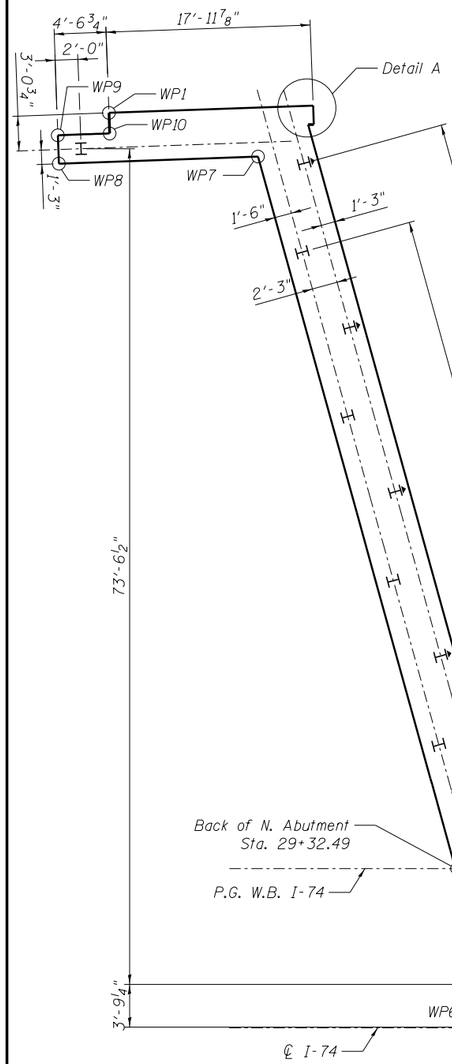
Work Points

W.P.	Station	Offset
1	29+1.99	80.51' Lt.
2	29+19.96	81.15' Lt.
3	29+20.02	79.49' Lt.
4	29+19.52	79.47' Lt.
5	29+41.55	0.04' Lt.
6	29+36.35	0.04' Lt.
7	29+15.11	76.66' Lt.
8	28+97.58	76.04' Lt.
9	28+97.49	78.54' Lt.
10	29+2.05	78.70' Lt.

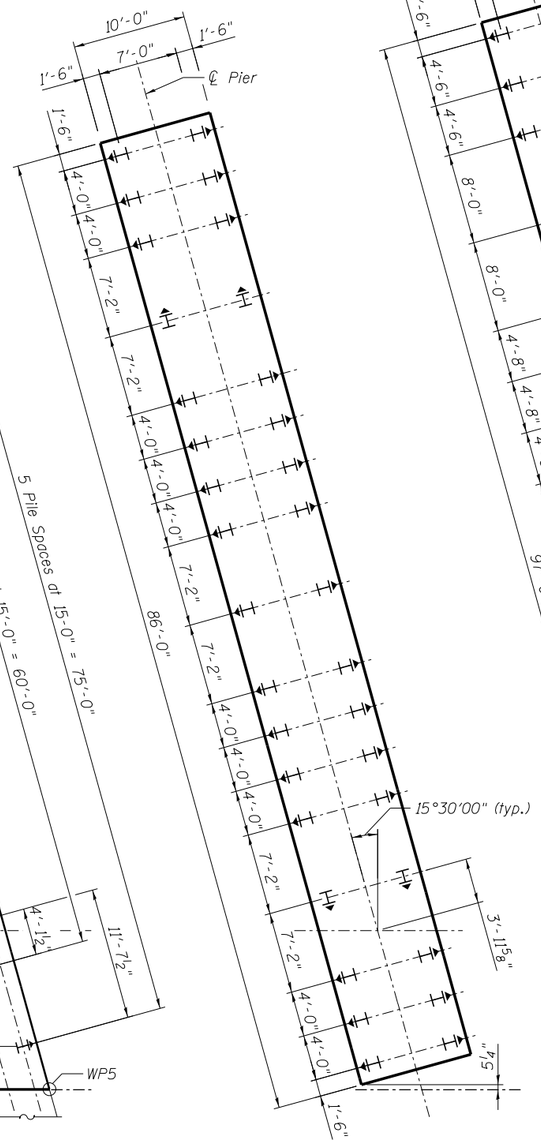
(Offset measured from ℄ I-74)



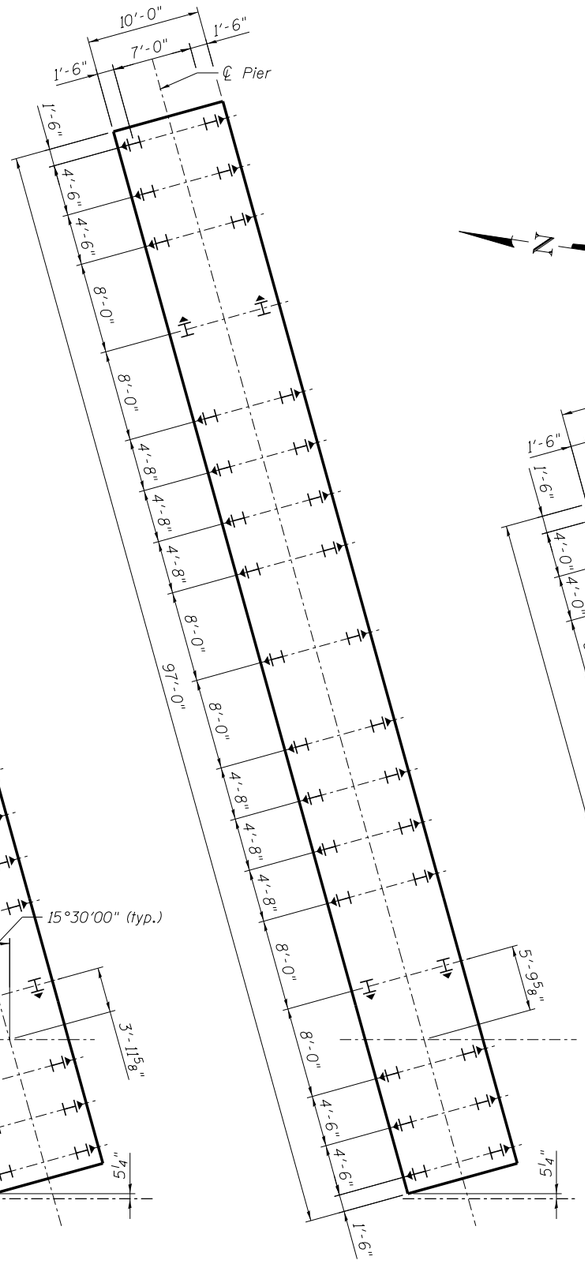
DETAIL A



NORTH ABUTMENT



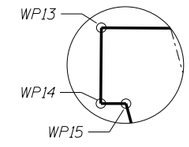
PIER 1



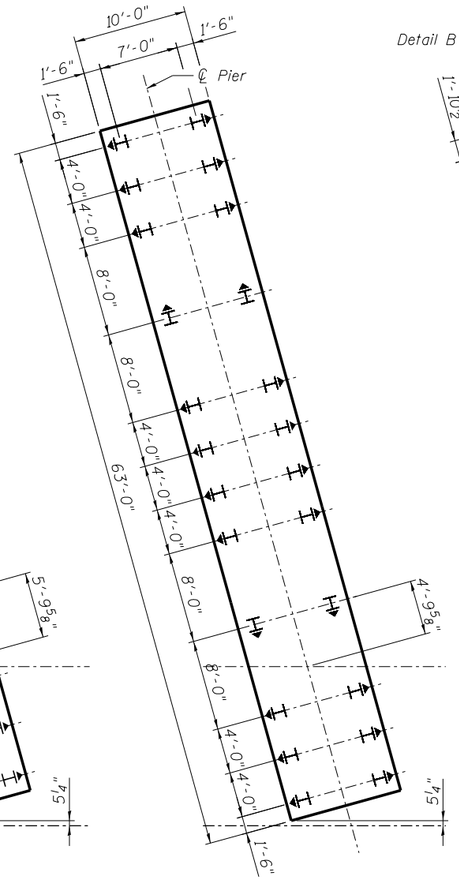
PIER 2

Work Points

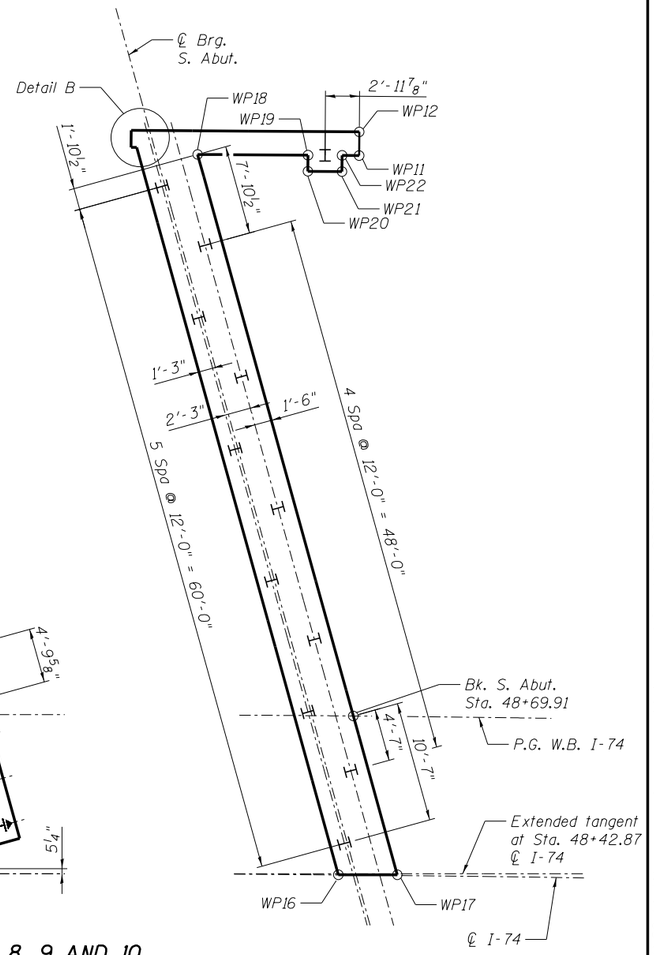
W.P.	Station	Offset
11	48+69.98	63.33 Lt.
12	48+69.97	65.41 Lt.
13	48+50.32	65.43 Lt.
14	48+50.31	63.93 Lt.
15	48+50.80	63.93 Lt.
16	48+68.72	0.02 Lt.
17	48+73.91	0.07 Lt.
18	48+56.05	63.33 Lt.
19	48+65.57	63.32 Lt.
20	48+65.57	61.90 Lt.
21	48+68.51	61.91 Lt.
22	48+68.51	63.32 Lt.



Detail B



PIERS 3, 4, 5, 6, 7, 8, 9 AND 10



SOUTH ABUTMENT

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312-565-0450 Job No. 10061

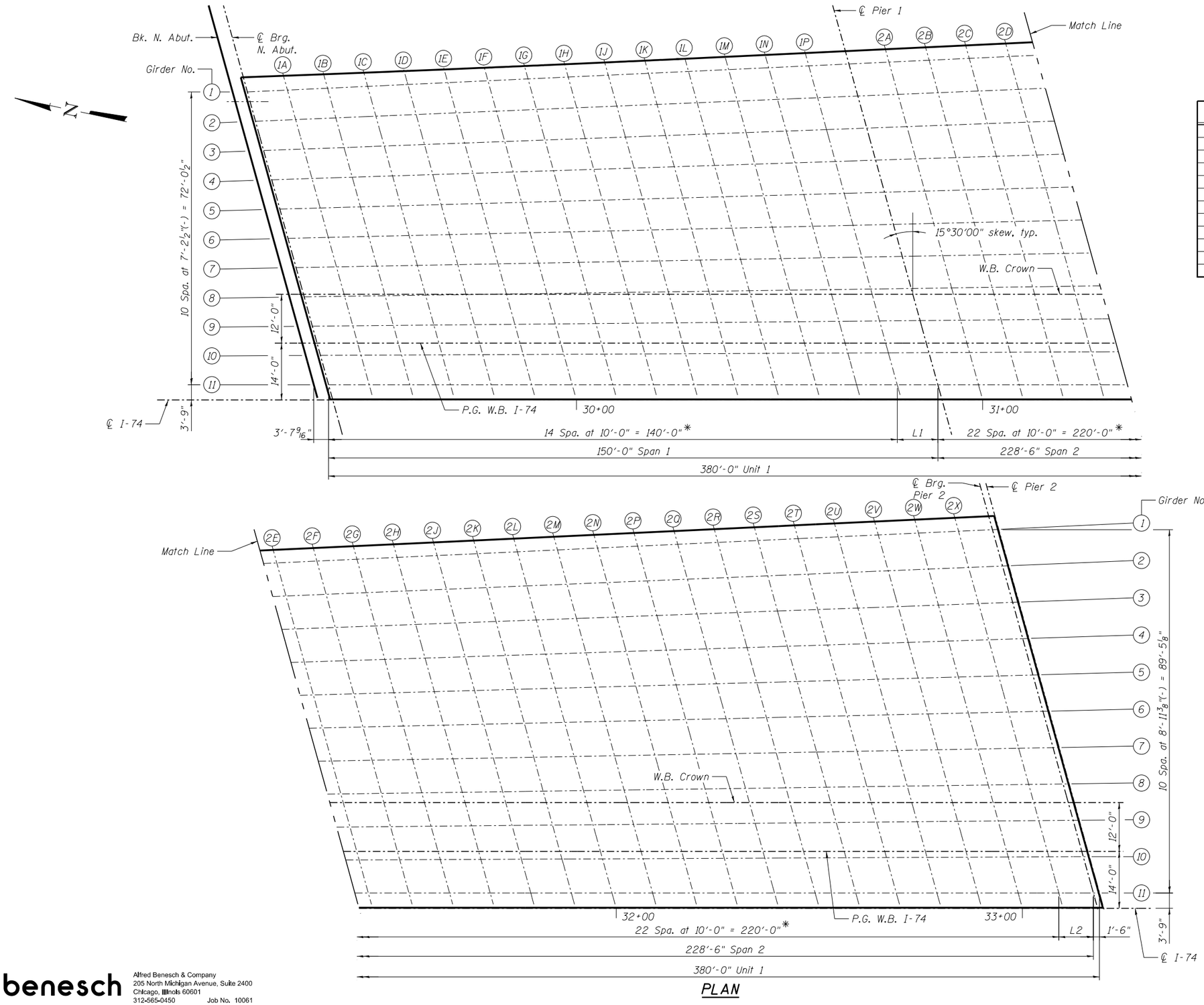
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MODEL = Default	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION LAYOUT
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. 59 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	778
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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PLAN

SCREED SPACING

LOCATION	L1	L2
Girder 1	8'-3"	5'-10"
Girder 2	8'-4 1/8"	6'-0 1/8"
Girder 3	8'-6 1/8"	6'-3 1/8"
Girder 4	8'-8 1/8"	6'-7"
Girder 5	8'-10 1/8"	6'-10 1/8"
Girder 6	9'-1"	7'-1 1/4"
Girder 7	9'-3 1/8"	7'-4 1/2"
Girder 8	9'-5 1/4"	7'-7 3/4"
Girder 9	9'-7 1/2"	7'-11 1/8"
P.G. W.B. I-74	10'-0"	8'-6"
Girder 10	9'-9 3/4"	8'-2 1/2"
Girder 11	10'-0"	8'-6"

*Spacing measured along girder centerline.

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312-565-0450 Job No. 10061

FILENAME = 081-0177-C00AB-010-Deck Elevation Plan Unit 1.dgn
MODEL = Default

USER NAME = ksnider	DESIGNED - TJJ	REVISED -	
	CHECKED - AJK	REVISED -	
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PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATION PLAN UNIT 1
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S10 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	779
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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GIRDER 1

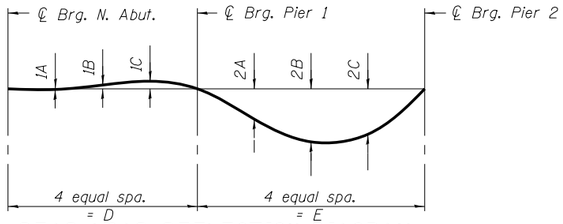
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+15.35	-61.62	593.44	593.44
CL. BRG. N. ABUT.	29+18.98	-61.79	593.51	593.51
1A	29+28.97	-62.26	593.71	593.72
1B	29+38.96	-62.72	593.91	593.93
1C	29+48.95	-63.19	594.11	594.13
1D	29+58.94	-63.65	594.31	594.32
1E	29+68.93	-64.12	594.51	594.52
1F	29+78.92	-64.58	594.71	594.71
1G	29+88.91	-65.05	594.91	594.89
1H	29+98.90	-65.51	595.12	595.08
1J	30+08.89	-65.98	595.32	595.27
1K	30+18.88	-66.44	595.52	595.46
1L	30+28.86	-66.91	595.72	595.66
1M	30+38.85	-67.37	595.92	595.86
1N	30+48.84	-67.83	596.12	596.07
1P	30+58.83	-68.30	596.32	596.29
CL. BRG. PIER 1	30+67.07	-68.68	596.48	596.48
2A	30+77.06	-69.15	596.68	596.72
2B	30+87.05	-69.61	596.88	596.97
2C	30+97.04	-70.08	597.08	597.23
2D	31+07.03	-70.54	597.28	597.50
2E	31+17.02	-71.01	597.48	597.76
2F	31+27.01	-71.47	597.68	598.03
2G	31+37.00	-71.94	597.88	598.30
2H	31+46.99	-72.40	598.09	598.55
2J	31+56.98	-72.87	598.29	598.80
2K	31+66.96	-73.33	598.49	599.03
2L	31+76.95	-73.80	598.69	599.26
2M	31+86.94	-74.26	598.89	599.47
2N	31+96.93	-74.73	599.09	599.68
2P	32+06.92	-75.19	599.29	599.86
2Q	32+16.91	-75.66	599.49	600.04
2R	32+26.90	-76.12	599.69	600.20
2S	32+36.89	-76.59	599.89	600.36
2T	32+46.88	-77.05	600.09	600.49
2U	32+56.87	-77.52	600.29	600.62
2V	32+66.86	-77.98	600.49	600.74
2W	32+76.85	-78.45	600.69	600.85
2X	32+86.83	-78.91	600.89	600.95
CL. BRG. PIER 2	32+92.66	-79.18	601.01	601.01
CL. JT. & PIER 2	32+94.16	-79.25	601.05	601.05

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+17.35	-54.44	593.63	593.63
CL. BRG. N. ABUT.	29+20.98	-54.59	593.70	593.70
1A	29+30.97	-55.01	593.90	593.90
1B	29+40.96	-55.42	594.10	594.11
1C	29+50.96	-55.84	594.30	594.31
1D	29+60.95	-56.26	594.50	594.50
1E	29+70.94	-56.68	594.71	594.70
1F	29+80.93	-57.10	594.91	594.89
1G	29+90.92	-57.51	595.11	595.07
1H	30+00.91	-57.93	595.31	595.26
1J	30+10.90	-58.35	595.51	595.45
1K	30+20.89	-58.77	595.71	595.65
1L	30+30.89	-59.18	595.91	595.85
1M	30+40.88	-59.60	596.11	596.05
1N	30+50.87	-60.02	596.32	596.27
1P	30+60.86	-60.44	596.52	596.49
CL. BRG. PIER 1	30+69.26	-60.79	596.69	596.69
2A	30+79.25	-61.21	596.89	596.93
2B	30+89.24	-61.63	597.09	597.18
2C	30+99.24	-62.04	597.29	597.44
2D	31+09.23	-62.46	597.49	597.70
2E	31+19.22	-62.88	597.69	597.97
2F	31+29.21	-63.30	597.89	598.24
2G	31+39.20	-63.72	598.10	598.50
2H	31+49.19	-64.13	598.30	598.75
2J	31+59.18	-64.55	598.50	599.00
2K	31+69.17	-64.97	598.70	599.24
2L	31+79.17	-65.39	598.90	599.47
2M	31+89.16	-65.80	599.10	599.68
2N	31+99.15	-66.22	599.30	599.88
2P	32+09.14	-66.64	599.50	600.07
2Q	32+19.13	-67.06	599.71	600.25
2R	32+29.12	-67.48	599.91	600.42
2S	32+39.11	-67.89	600.11	600.57
2T	32+49.10	-68.31	600.31	600.71
2U	32+59.10	-68.73	600.51	600.84
2V	32+69.09	-69.15	600.71	600.96
2W	32+79.08	-69.57	600.91	601.07
2X	32+89.07	-69.98	601.12	601.18
CL. BRG. PIER 2	32+95.14	-70.24	601.24	601.24
CL. JT. & PIER 2	32+96.64	-70.30	601.27	601.27

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+19.35	-47.25	593.81	593.81
CL. BRG. N. ABUT.	29+22.98	-47.38	593.88	593.88
1A	29+32.97	-47.75	594.09	594.09
1B	29+42.97	-48.13	594.29	594.29
1C	29+52.96	-48.50	594.49	594.50
1D	29+62.95	-48.87	594.69	594.69
1E	29+72.95	-49.24	594.90	594.89
1F	29+82.94	-49.61	595.10	595.08
1G	29+92.93	-49.98	595.30	595.27
1H	30+02.92	-50.35	595.50	595.46
1J	30+12.92	-50.72	595.71	595.65
1K	30+22.91	-51.09	595.91	595.84
1L	30+32.90	-51.47	596.11	596.04
1M	30+42.90	-51.84	596.31	596.25
1N	30+52.89	-52.21	596.51	596.47
1P	30+62.88	-52.58	596.72	596.69
CL. BRG. PIER 1	30+71.45	-52.90	596.89	596.89
2A	30+81.44	-53.27	597.09	597.13
2B	30+91.44	-53.64	597.29	597.39
2C	31+01.43	-54.01	597.50	597.65
2D	31+11.42	-54.38	597.70	597.91
2E	31+21.42	-54.75	597.90	598.18
2F	31+31.41	-55.12	598.10	598.45
2G	31+41.40	-55.49	598.31	598.71
2H	31+51.40	-55.87	598.51	598.97
2J	31+61.39	-56.24	598.71	599.22
2K	31+71.38	-56.61	598.91	599.45
2L	31+81.37	-56.98	599.12	599.68
2M	31+91.37	-57.35	599.32	599.90
2N	32+01.36	-57.72	599.52	600.10
2P	32+11.35	-58.09	599.72	600.29
2Q	32+21.35	-58.46	599.92	600.47
2R	32+31.34	-58.83	600.13	600.64
2S	32+41.33	-59.20	600.33	600.79
2T	32+51.33	-59.58	600.53	600.93
2U	32+61.32	-59.95	600.73	601.06
2V	32+71.31	-60.32	600.94	601.18
2W	32+81.31	-60.69	601.14	601.30
2X	32+91.30	-61.06	601.34	601.40
CL. BRG. PIER 2	32+97.62	-61.29	601.47	601.47
CL. JT. & PIER 2	32+99.12	-61.35	601.50	601.50



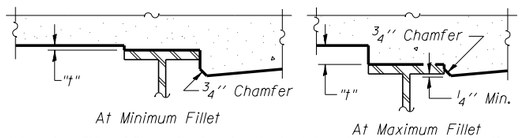
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S11 thru S14.

DEAD LOAD DEFLECTION TABLE

Girder	1A	1B	1C	2A	2B	2C	D	E
1	1/8"	3/8"	3/4"	3 7/8"	7"	5 5/8"	148'-3"	225'-10"
2	0"	1/2"	3/4"	3 7/8"	6 7/8"	5 5/8"	148'-4 7/8"	226'-0 7/8"
3	0"	1/2"	3/4"	3 7/8"	6 7/8"	5 5/8"	148-6 7/8"	226'-3 7/8"
4	0"	1/2"	3/4"	3 7/8"	7"	5 3/4"	148-8 7/8"	226'-7"
5	0"	1/2"	3/4"	3 7/8"	7"	5 3/4"	148'-10 7/8"	226'-10 7/8"
6	0"	1/2"	3/4"	3 7/8"	7"	5 3/4"	149'-1"	227'-1 1/4"
7	0"	1/2"	3/4"	3 7/8"	7"	5 3/4"	149'-3 1/8"	227'-4 1/2"
8	0"	1/2"	3/4"	3 7/8"	7"	5 3/4"	149'-5 1/4"	227'-7 3/4"
9	0"	1/2"	7/8"	4 1/8"	7 1/4"	5 7/8"	149'-7 1/2"	227'-11 1/8"
10	0"	1/2"	7/8"	4 1/8"	7 1/4"	5 7/8"	149'-9 3/4"	228'-2 1/2"
11	1/8"	3/8"	7/8"	4 1/4"	7 1/2"	6 1/8"	150'-0"	228'-6"



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

NOTE:

1. Offset measured from P.G. WB I-74.

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312-565-0450
Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-011-Top of Slab Elevations Unit 1 (1 of 4).dgn	USER NAME = ksnider	DESIGNED - TJJ	REVISED -
		CHECKED - AJK	REVISED -
MODEL = Default	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 1 (1 of 4)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S11 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	780
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+21.35	-40.06	594.00	594.00
CL. BRG. N. ABUT.	29+24.98	-40.18	594.07	594.07
1A	29+34.97	-40.50	594.27	594.28
1B	29+44.97	-40.83	594.48	594.48
1C	29+54.96	-41.15	594.68	594.68
1D	29+64.96	-41.48	594.88	594.88
1E	29+74.95	-41.80	595.09	595.08
1F	29+84.95	-42.13	595.29	595.27
1G	29+94.94	-42.45	595.49	595.46
1H	30+04.94	-42.77	595.70	595.65
1J	30+14.93	-43.10	595.90	595.84
1K	30+24.92	-43.42	596.10	596.04
1L	30+34.92	-43.75	596.31	596.24
1M	30+44.91	-44.07	596.51	596.45
1N	30+54.91	-44.40	596.71	596.66
1P	30+64.90	-44.72	596.92	596.89
CL. BRG. PIER 1	30+73.64	-45.00	597.09	597.09
2A	30+83.63	-45.33	597.30	597.34
2B	30+93.63	-45.65	597.50	597.59
2C	31+03.62	-45.98	597.70	597.86
2D	31+13.62	-46.30	597.91	598.12
2E	31+23.61	-46.62	598.11	598.39
2F	31+33.61	-46.95	598.31	598.66
2G	31+43.60	-47.27	598.52	598.93
2H	31+53.60	-47.60	598.72	599.19
2J	31+63.59	-47.92	598.92	599.44
2K	31+73.59	-48.25	599.13	599.68
2L	31+83.58	-48.57	599.33	599.91
2M	31+93.58	-48.90	599.53	600.12
2N	32+03.57	-49.22	599.74	600.33
2P	32+13.57	-49.54	599.94	600.52
2Q	32+23.56	-49.87	600.14	600.70
2R	32+33.56	-50.19	600.35	600.87
2S	32+43.55	-50.52	600.55	601.02
2T	32+53.54	-50.84	600.75	601.16
2U	32+63.54	-51.17	600.96	601.29
2V	32+73.53	-51.49	601.16	601.41
2W	32+83.53	-51.81	601.36	601.53
2X	32+93.52	-52.14	601.57	601.63
CL. BRG. PIER 2	33+00.10	-52.35	601.70	601.70
CL. JT. & PIER 2	33+01.60	-52.40	601.73	601.73

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+23.34	-32.87	594.18	594.18
CL. BRG. N. ABUT.	29+26.98	-32.98	594.26	594.26
1A	29+36.97	-33.25	594.46	594.46
1B	29+46.97	-33.53	594.67	594.67
1C	29+56.96	-33.81	594.87	594.87
1D	29+66.96	-34.09	595.07	595.07
1E	29+76.96	-34.36	595.28	595.27
1F	29+86.95	-34.64	595.48	595.46
1G	29+96.95	-34.92	595.69	595.65
1H	30+06.94	-35.20	595.89	595.84
1J	30+16.94	-35.47	596.09	596.04
1K	30+26.94	-35.75	596.30	596.23
1L	30+36.93	-36.03	596.50	596.44
1M	30+46.93	-36.31	596.71	596.65
1N	30+56.93	-36.58	596.91	596.86
1P	30+66.92	-36.86	597.12	597.09
CL. BRG. PIER 1	30+75.83	-37.11	597.30	597.30
2A	30+85.82	-37.39	597.50	597.54
2B	30+95.82	-37.67	597.71	597.80
2C	31+05.82	-37.94	597.91	598.06
2D	31+15.81	-38.22	598.11	598.33
2E	31+25.81	-38.50	598.32	598.60
2F	31+35.81	-38.78	598.52	598.87
2G	31+45.80	-39.05	598.73	599.14
2H	31+55.80	-39.33	598.93	599.40
2J	31+65.79	-39.61	599.14	599.65
2K	31+75.79	-39.89	599.34	599.89
2L	31+85.79	-40.16	599.54	600.12
2M	31+95.78	-40.44	599.75	600.34
2N	32+05.78	-40.72	599.95	600.54
2P	32+15.77	-41.00	600.16	600.74
2Q	32+25.77	-41.28	600.36	600.92
2R	32+35.77	-41.55	600.57	601.09
2S	32+45.76	-41.83	600.77	601.24
2T	32+55.76	-42.11	600.97	601.39
2U	32+65.76	-42.39	601.18	601.52
2V	32+75.75	-42.66	601.38	601.64
2W	32+85.75	-42.94	601.59	601.75
2X	32+95.74	-43.22	601.79	601.86
CL. BRG. PIER 2	33+02.58	-43.41	601.93	601.93
CL. JT. & PIER 2	33+04.08	-43.45	601.96	601.96

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+25.34	-25.69	594.37	594.37
CL. BRG. N. ABUT.	29+28.97	-25.77	594.44	594.44
1A	29+38.97	-26.00	594.65	594.65
1B	29+48.97	-26.23	594.85	594.86
1C	29+58.97	-26.46	595.06	595.06
1D	29+68.96	-26.70	595.26	595.26
1E	29+78.96	-26.93	595.47	595.46
1F	29+88.96	-27.16	595.67	595.65
1G	29+98.95	-27.39	595.88	595.85
1H	30+08.95	-27.62	596.08	596.04
1J	30+18.95	-27.85	596.29	596.23
1K	30+28.95	-28.08	596.49	596.43
1L	30+38.94	-28.31	596.70	596.63
1M	30+48.94	-28.54	596.90	596.84
1N	30+58.94	-28.78	597.11	597.06
1P	30+68.94	-29.01	597.32	597.29
CL. BRG. PIER 1	30+78.02	-29.22	597.50	597.50
2A	30+88.01	-29.45	597.71	597.75
2B	30+98.01	-29.68	597.91	598.00
2C	31+08.01	-29.91	598.12	598.27
2D	31+18.01	-30.14	598.32	598.54
2E	31+28.00	-30.37	598.53	598.81
2F	31+38.00	-30.60	598.73	599.08
2G	31+48.00	-30.83	598.94	599.35
2H	31+58.00	-31.07	599.14	599.61
2J	31+67.99	-31.30	599.35	599.86
2K	31+77.99	-31.53	599.55	600.10
2L	31+87.99	-31.76	599.76	600.33
2M	31+97.99	-31.99	599.96	600.55
2N	32+07.98	-32.22	600.17	600.76
2P	32+17.98	-32.45	600.37	600.96
2Q	32+27.98	-32.68	600.58	601.14
2R	32+37.97	-32.91	600.78	601.31
2S	32+47.97	-33.15	600.99	601.47
2T	32+57.97	-33.38	601.19	601.61
2U	32+67.97	-33.61	601.40	601.74
2V	32+77.96	-33.84	601.60	601.86
2W	32+87.96	-34.07	601.81	601.98
2X	32+97.96	-34.30	602.02	602.09
CL. BRG. PIER 2	33+05.06	-34.47	602.16	602.16
CL. JT. & PIER 2	33+06.56	-34.50	602.19	602.19

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-012-Top of Slab Elevations Unit 1 (2 of 4).dgn
MODEL = Default
USER NAME = ksnider | PLOT SCALE = | PLOT DATE = 1/18/2017
DESIGNED - TJJ | CHECKED - AJK | DRAWN - KMS | CHECKED - AJK
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 1 (2 of 4)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S12 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	781
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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11:28:56 AM 1/18/2017

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+27.34	-18.50	594.55	594.55
CL. BRG. N. ABUT.	29+30.97	-18.57	594.63	594.63
1A	29+40.97	-18.75	594.83	594.84
1B	29+50.97	-18.94	595.04	595.05
1C	29+60.97	-19.12	595.25	595.25
1D	29+70.96	-19.31	595.45	595.45
1E	29+80.96	-19.49	595.66	595.65
1F	29+90.96	-19.67	595.87	595.85
1G	30+00.96	-19.86	596.07	596.04
1H	30+10.96	-20.04	596.28	596.23
1J	30+20.96	-20.23	596.48	596.43
1K	30+30.95	-20.41	596.69	596.62
1L	30+40.95	-20.60	596.90	596.83
1M	30+50.95	-20.78	597.10	597.04
1N	30+60.95	-20.97	597.31	597.26
1P	30+70.95	-21.15	597.51	597.49
CL. BRG. PIER 1	30+80.21	-21.32	597.71	597.71
2A	30+90.20	-21.51	597.91	597.95
2B	31+00.20	-21.69	598.12	598.21
2C	31+10.20	-21.88	598.32	598.48
2D	31+20.20	-22.06	598.53	598.75
2E	31+30.20	-22.25	598.74	599.02
2F	31+40.20	-22.43	598.94	599.29
2G	31+50.19	-22.62	599.15	599.56
2H	31+60.19	-22.80	599.35	599.82
2J	31+70.19	-22.99	599.56	600.07
2K	31+80.19	-23.17	599.77	600.31
2L	31+90.19	-23.35	599.97	600.55
2M	32+00.19	-23.54	600.18	600.77
2N	32+10.18	-23.72	600.38	600.98
2P	32+20.18	-23.91	600.59	601.17
2Q	32+30.18	-24.09	600.80	601.36
2R	32+40.18	-24.28	601.00	601.53
2S	32+50.18	-24.46	601.21	601.69
2T	32+60.18	-24.65	601.42	601.83
2U	32+70.17	-24.83	601.62	601.97
2V	32+80.17	-25.02	601.83	602.09
2W	32+90.17	-25.20	602.03	602.21
2X	33+00.17	-25.39	602.24	602.32
CL. BRG. PIER 2	33+07.54	-25.52	602.39	602.39
CL. JT. & PIER 2	33+09.04	-25.55	602.42	602.42

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+29.34	-11.31	594.71	594.71
CL. BRG. N. ABUT.	29+32.97	-11.36	594.79	594.79
1A	29+42.97	-11.50	595.00	595.01
1B	29+52.97	-11.64	595.21	595.22
1C	29+62.97	-11.78	595.43	595.43
1D	29+72.97	-11.92	595.64	595.64
1E	29+82.96	-12.05	595.85	595.84
1F	29+92.96	-12.19	596.06	596.04
1G	30+02.96	-12.33	596.26	596.23
1H	30+12.96	-12.47	596.47	596.43
1J	30+22.96	-12.61	596.68	596.62
1K	30+32.96	-12.75	596.89	596.82
1L	30+42.96	-12.88	597.09	597.03
1M	30+52.96	-13.02	597.30	597.24
1N	30+62.96	-13.16	597.51	597.46
1P	30+72.96	-13.30	597.71	597.69
CL. BRG. PIER 1	30+82.40	-13.43	597.91	597.91
2A	30+92.39	-13.57	598.12	598.16
2B	31+02.39	-13.71	598.32	598.42
2C	31+12.39	-13.85	598.53	598.68
2D	31+22.39	-13.98	598.74	598.95
2E	31+32.39	-14.12	598.94	599.22
2F	31+42.39	-14.26	599.15	599.50
2G	31+52.39	-14.40	599.36	599.77
2H	31+62.39	-14.54	599.57	600.03
2J	31+72.39	-14.68	599.77	600.28
2K	31+82.39	-14.81	599.98	600.53
2L	31+92.39	-14.95	600.19	600.76
2M	32+02.38	-15.09	600.39	600.98
2N	32+12.38	-15.23	600.60	601.19
2P	32+22.38	-15.37	600.81	601.39
2Q	32+32.38	-15.51	601.01	601.58
2R	32+42.38	-15.64	601.22	601.75
2S	32+52.38	-15.78	601.43	601.91
2T	32+62.38	-15.92	601.64	602.05
2U	32+72.38	-16.06	601.84	602.19
2V	32+82.38	-16.20	602.05	602.31
2W	32+92.38	-16.34	602.26	602.43
2X	33+02.37	-16.47	602.46	602.54
CL. BRG. PIER 2	33+10.02	-16.58	602.62	602.62
CL. JT. & PIER 2	33+11.52	-16.60	602.65	602.65

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+31.34	-4.12	594.61	594.61
CL. BRG. N. ABUT.	29+34.97	-4.16	594.69	594.69
1A	29+44.97	-4.25	594.90	594.90
1B	29+54.97	-4.34	595.11	595.11
1C	29+64.97	-4.43	595.32	595.32
1D	29+74.97	-4.53	595.53	595.53
1E	29+84.96	-4.62	595.75	595.73
1F	29+94.96	-4.71	595.96	595.93
1G	30+04.96	-4.80	596.17	596.13
1H	30+14.96	-4.90	596.38	596.33
1J	30+24.96	-4.99	596.59	596.53
1K	30+34.96	-5.08	596.80	596.73
1L	30+44.96	-5.17	597.02	596.94
1M	30+54.96	-5.26	597.23	597.16
1N	30+64.96	-5.36	597.44	597.39
1P	30+74.96	-5.45	597.65	597.62
CL. BRG. PIER 1	30+84.58	-5.54	597.85	597.85
2A	30+94.58	-5.63	598.07	598.11
2B	31+04.58	-5.72	598.28	598.37
2C	31+14.58	-5.81	598.49	598.65
2D	31+24.58	-5.91	598.70	598.93
2E	31+34.58	-6.00	598.91	599.21
2F	31+44.58	-6.09	599.12	599.49
2G	31+54.58	-6.18	599.34	599.77
2H	31+64.58	-6.27	599.55	600.03
2J	31+74.58	-6.37	599.76	600.30
2K	31+84.58	-6.46	599.97	600.54
2L	31+94.58	-6.55	600.18	600.78
2M	32+04.58	-6.64	600.39	601.01
2N	32+14.58	-6.73	600.61	601.22
2P	32+24.58	-6.83	600.82	601.42
2Q	32+34.58	-6.92	601.03	601.61
2R	32+44.58	-7.01	601.24	601.79
2S	32+54.58	-7.10	601.45	601.95
2T	32+64.58	-7.19	601.66	602.10
2U	32+74.58	-7.29	601.88	602.24
2V	32+84.58	-7.38	602.09	602.36
2W	32+94.58	-7.47	602.30	602.48
2X	33+04.58	-7.56	602.51	602.59
CL. BRG. PIER 2	33+12.50	-7.64	602.68	602.68
CL. JT. & PIER 2	33+14.00	-7.65	602.71	602.71

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-013-Top of Slab Elevations Unit 1 (3 of 4).dgn	USER NAME = ksnider	DESIGNED - TJJ	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL = Default	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 1 (3 of 4)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S13 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	782
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

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11:29:00 AM 1/18/2017

P.G. WB I-74

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+32.49	0.00	594.55	594.55
CL. BRG. N. ABUT.	29+36.12	0.00	594.63	594.63
1A	29+46.12	0.00	594.84	594.84
1B	29+56.12	0.00	595.05	595.05
1C	29+66.12	0.00	595.26	595.26
1D	29+76.12	0.00	595.47	595.46
1E	29+86.12	0.00	595.68	595.67
1F	29+96.12	0.00	595.89	595.86
1G	30+06.12	0.00	596.10	596.06
1H	30+16.12	0.00	596.31	596.26
1J	30+26.12	0.00	596.52	596.46
1K	30+36.12	0.00	596.73	596.66
1L	30+46.12	0.00	596.94	596.86
1M	30+56.12	0.00	597.15	597.08
1N	30+66.12	0.00	597.36	597.30
1P	30+76.12	0.00	597.57	597.54
CL. BRG. PIER 1	30+86.12	0.00	597.78	597.78
2A	30+96.12	0.00	597.99	598.03
2B	31+06.12	0.00	598.20	598.29
2C	31+16.12	0.00	598.41	598.56
2D	31+26.12	0.00	598.62	598.84
2E	31+36.12	0.00	598.83	599.12
2F	31+46.12	0.00	599.03	599.40
2G	31+56.12	0.00	599.24	599.67
2H	31+66.12	0.00	599.45	599.94
2J	31+76.12	0.00	599.66	600.20
2K	31+86.12	0.00	599.87	600.45
2L	31+96.12	0.00	600.08	600.68
2M	32+06.12	0.00	600.29	600.91
2N	32+16.12	0.00	600.50	601.12
2P	32+26.12	0.00	600.71	601.32
2Q	32+36.12	0.00	600.92	601.51
2R	32+46.12	0.00	601.13	601.68
2S	32+56.12	0.00	601.34	601.84
2T	32+66.12	0.00	601.55	601.99
2U	32+76.12	0.00	601.76	602.13
2V	32+86.12	0.00	601.97	602.25
2W	32+96.12	0.00	602.18	602.37
2X	33+06.12	0.00	602.39	602.48
CL. BRG. PIER 2	33+14.62	0.00	602.57	602.57
CL. JT. & PIER 2	33+16.12	0.00	602.60	602.60

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+33.33	3.06	594.51	594.51
CL. BRG. N. ABUT.	29+36.96	3.05	594.58	594.58
1A	29+46.96	3.00	594.80	594.80
1B	29+56.96	2.95	595.01	595.01
1C	29+66.96	2.91	595.22	595.22
1D	29+76.96	2.86	595.43	595.43
1E	29+86.96	2.82	595.64	595.63
1F	29+96.96	2.77	595.85	595.83
1G	30+06.96	2.72	596.06	596.02
1H	30+16.96	2.68	596.27	596.22
1J	30+26.96	2.63	596.48	596.42
1K	30+36.96	2.59	596.69	596.62
1L	30+46.96	2.54	596.90	596.83
1M	30+56.96	2.49	597.11	597.05
1N	30+66.96	2.45	597.32	597.27
1P	30+76.96	2.40	597.54	597.51
CL. BRG. PIER 1	30+86.77	2.36	597.74	597.74
2A	30+96.77	2.31	597.95	598.00
2B	31+06.77	2.26	598.16	598.26
2C	31+16.77	2.22	598.37	598.53
2D	31+26.77	2.17	598.59	598.81
2E	31+36.77	2.13	598.80	599.09
2F	31+46.77	2.08	599.01	599.37
2G	31+56.77	2.03	599.22	599.65
2H	31+66.77	1.99	599.43	599.91
2J	31+76.77	1.94	599.64	600.17
2K	31+86.77	1.90	599.85	600.42
2L	31+96.77	1.85	600.06	600.66
2M	32+06.77	1.80	600.27	600.88
2N	32+16.77	1.76	600.48	601.10
2P	32+26.77	1.71	600.69	601.30
2Q	32+36.77	1.67	600.90	601.49
2R	32+46.77	1.62	601.11	601.66
2S	32+56.77	1.57	601.33	601.82
2T	32+66.77	1.53	601.54	601.97
2U	32+76.77	1.48	601.75	602.11
2V	32+86.77	1.44	601.96	602.23
2W	32+96.77	1.39	602.17	602.35
2X	33+06.77	1.34	602.38	602.47
CL. BRG. PIER 2	33+14.98	1.31	602.55	602.55
CL. JT. & PIER 2	33+16.48	1.30	602.58	602.58

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	29+35.33	10.25	594.41	594.41
CL. BRG. N. ABUT.	29+38.96	10.25	594.48	594.48
1A	29+48.96	10.25	594.69	594.70
1B	29+58.96	10.25	594.90	594.91
1C	29+68.96	10.25	595.11	595.12
1D	29+78.96	10.25	595.32	595.33
1E	29+88.96	10.25	595.53	595.53
1F	29+98.96	10.25	595.74	595.73
1G	30+08.96	10.25	595.95	595.93
1H	30+18.96	10.25	596.16	596.12
1J	30+28.96	10.25	596.37	596.32
1K	30+38.96	10.25	596.58	596.52
1L	30+48.96	10.25	596.79	596.72
1M	30+58.96	10.25	597.00	596.94
1N	30+68.96	10.25	597.21	597.16
1P	30+78.96	10.25	597.42	597.39
CL. BRG. PIER 1	30+88.96	10.25	597.63	597.63
2A	30+98.96	10.25	597.84	597.89
2B	31+08.96	10.25	598.05	598.15
2C	31+18.96	10.25	598.26	598.42
2D	31+28.96	10.25	598.47	598.70
2E	31+38.96	10.25	598.68	598.98
2F	31+48.96	10.25	598.89	599.26
2G	31+58.96	10.25	599.10	599.54
2H	31+68.96	10.25	599.31	599.81
2J	31+78.96	10.25	599.52	600.07
2K	31+88.96	10.25	599.73	600.32
2L	31+98.96	10.25	599.94	600.56
2M	32+08.96	10.25	600.15	600.78
2N	32+18.96	10.25	600.36	601.00
2P	32+28.96	10.25	600.57	601.20
2Q	32+38.96	10.25	600.78	601.38
2R	32+48.96	10.25	600.99	601.56
2S	32+58.96	10.25	601.20	601.71
2T	32+68.96	10.25	601.41	601.86
2U	32+78.96	10.25	601.62	601.99
2V	32+88.96	10.25	601.83	602.12
2W	32+98.96	10.25	602.04	602.23
2X	33+08.96	10.25	602.25	602.34
CL. BRG. PIER 2	33+17.46	10.25	602.43	602.43
CL. JT. & PIER 2	33+18.96	10.25	602.46	602.46

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E-S 7-1-10

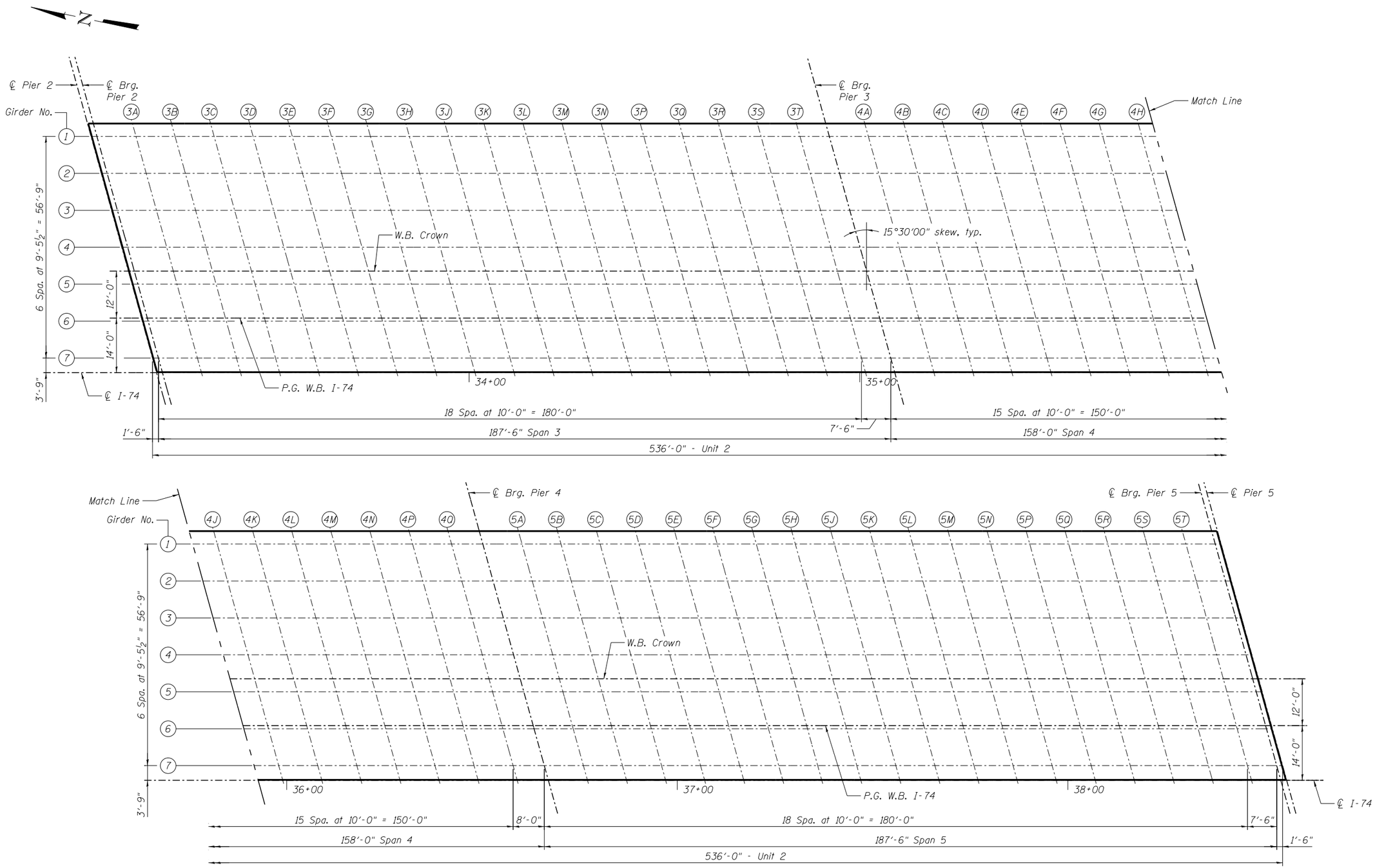
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CHECKED - AJK | REVISED -
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PLOT DATE = 1/18/2017 | CHECKED - AJK | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 1 (4 of 4)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S14 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	783
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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PLAN

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Chicago, Illinois 60601
312-565-0450 Job No. 10061

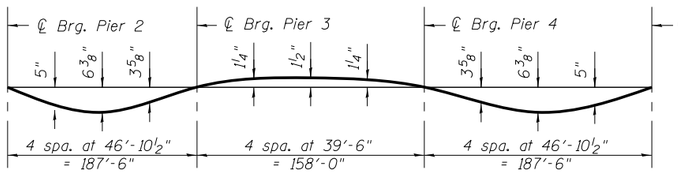
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATION PLAN UNIT 2
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S15 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	784
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

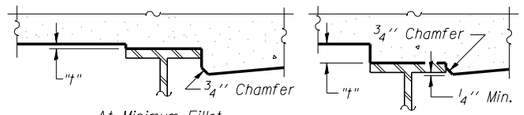
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DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S16 thru S18.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+03.22	-46.50	601.88	601.88
CL. BRG. PIER 2	33+04.72	-46.50	601.91	601.91
3A	33+14.72	-46.50	602.12	602.23
3B	33+24.72	-46.50	602.33	602.53
3C	33+34.72	-46.50	602.54	602.83
3D	33+44.72	-46.50	602.75	603.11
3E	33+54.72	-46.50	602.95	603.38
3F	33+64.72	-46.50	603.14	603.62
3G	33+74.72	-46.50	603.33	603.85
3H	33+84.72	-46.50	603.52	604.05
3J	33+94.72	-46.50	603.71	604.24
3K	34+04.72	-46.50	603.89	604.40
3L	34+14.72	-46.50	604.06	604.54
3M	34+24.72	-46.50	604.24	604.67
3N	34+34.72	-46.50	604.40	604.78
3P	34+44.72	-46.50	604.57	604.88
3Q	34+54.72	-46.50	604.73	604.97
3R	34+64.72	-46.50	604.88	605.05
3S	34+74.72	-46.50	605.04	605.14
3T	34+84.72	-46.50	605.19	605.23
CL. BRG. PIER 3	34+92.22	-46.50	605.29	605.29
4A	35+02.22	-46.50	605.44	605.39
4B	35+12.22	-46.50	605.57	605.50
4C	35+22.22	-46.50	605.71	605.61
4D	35+32.22	-46.50	605.84	605.73
4E	35+42.22	-46.50	605.96	605.84
4F	35+52.22	-46.50	606.08	605.96
4G	35+62.22	-46.50	606.20	606.07
4H	35+72.22	-46.50	606.31	606.19
4J	35+82.22	-46.50	606.42	606.30
4K	35+92.22	-46.50	606.53	606.41
4L	36+02.22	-46.50	606.63	606.51
4M	36+12.22	-46.50	606.73	606.62
4N	36+22.22	-46.50	606.82	606.73
4P	36+32.22	-46.50	606.91	606.84
4Q	36+42.22	-46.50	607.00	606.96
CL. BRG. PIER 4	36+50.22	-46.50	607.06	607.06
5A	36+60.22	-46.50	607.14	607.19
5B	36+70.22	-46.50	607.21	607.33
5C	36+80.22	-46.50	607.28	607.47
5D	36+90.22	-46.50	607.35	607.61
5E	37+00.22	-46.50	607.41	607.74
5F	37+10.22	-46.50	607.47	607.86
5G	37+20.22	-46.50	607.53	607.97
5H	37+30.22	-46.50	607.58	608.07
5J	37+40.22	-46.50	607.63	608.15
5K	37+50.22	-46.50	607.68	608.21
5L	37+60.22	-46.50	607.73	608.26
5M	37+70.22	-46.50	607.78	608.29
5N	37+80.22	-46.50	607.83	608.30
5P	37+90.22	-46.50	607.88	608.30
5Q	38+00.22	-46.50	607.93	608.28
5R	38+10.22	-46.50	607.98	608.25
5S	38+20.22	-46.50	608.03	608.21
5T	38+30.22	-46.50	608.08	608.16
CL. BRG. PIER 5	38+37.72	-46.50	608.12	608.12
CL. JT. & PIER 5	38+39.22	-46.50	608.13	608.13

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+05.85	-37.04	602.13	602.13
CL. BRG. PIER 2	33+07.35	-37.04	602.16	602.16
3A	33+17.35	-37.04	602.37	602.47
3B	33+27.35	-37.04	602.58	602.78
3C	33+37.35	-37.04	602.79	603.07
3D	33+47.35	-37.04	602.99	603.35
3E	33+57.35	-37.04	603.19	603.62
3F	33+67.35	-37.04	603.38	603.86
3G	33+77.35	-37.04	603.57	604.09
3H	33+87.35	-37.04	603.76	604.29
3J	33+97.35	-37.04	603.94	604.47
3K	34+07.35	-37.04	604.12	604.64
3L	34+17.35	-37.04	604.30	604.78
3M	34+27.35	-37.04	604.47	604.90
3N	34+37.35	-37.04	604.64	605.01
3P	34+47.35	-37.04	604.80	605.11
3Q	34+57.35	-37.04	604.96	605.20
3R	34+67.35	-37.04	605.11	605.28
3S	34+77.35	-37.04	605.27	605.37
3T	34+87.35	-37.04	605.41	605.45
CL. BRG. PIER 3	34+94.85	-37.04	605.52	605.52
4A	35+04.85	-37.04	605.66	605.62
4B	35+14.85	-37.04	605.80	605.72
4C	35+24.85	-37.04	605.93	605.83
4D	35+34.85	-37.04	606.06	605.95
4E	35+44.85	-37.04	606.18	606.06
4F	35+54.85	-37.04	606.30	606.18
4G	35+64.85	-37.04	606.42	606.29
4H	35+74.85	-37.04	606.53	606.41
4J	35+84.85	-37.04	606.64	606.51
4K	35+94.85	-37.04	606.74	606.62
4L	36+04.85	-37.04	606.84	606.73
4M	36+14.85	-37.04	606.94	606.83
4N	36+24.85	-37.04	607.03	606.94
4P	36+34.85	-37.04	607.12	607.05
4Q	36+44.85	-37.04	607.21	607.17
CL. BRG. PIER 4	36+52.85	-37.04	607.27	607.27
5A	36+62.85	-37.04	607.35	607.40
5B	36+72.85	-37.04	607.42	607.54
5C	36+82.85	-37.04	607.49	607.68
5D	36+92.85	-37.04	607.56	607.82
5E	37+02.85	-37.04	607.62	607.95
5F	37+12.85	-37.04	607.67	608.07
5G	37+22.85	-37.04	607.73	608.18
5H	37+32.85	-37.04	607.78	608.27
5J	37+42.85	-37.04	607.83	608.35
5K	37+52.85	-37.04	607.88	608.41
5L	37+62.85	-37.04	607.93	608.46
5M	37+72.85	-37.04	607.98	608.49
5N	37+82.85	-37.04	608.03	608.50
5P	37+92.85	-37.04	608.08	608.50
5Q	38+02.85	-37.04	608.13	608.48
5R	38+12.85	-37.04	608.18	608.45
5S	38+22.85	-37.04	608.23	608.41
5T	38+32.85	-37.04	608.28	608.36
CL. BRG. PIER 5	38+40.35	-37.04	608.32	608.32
CL. JT. & PIER 5	38+41.85	-37.04	608.33	608.33

NOTE:
1. Offset measured from P.G. WB I-74.

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Chicago, Illinois 60601
312-565-0450 Job No. 10061

E-S 7-1-10

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 2 (1 of 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S16 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	785
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+08.47	-27.58	602.37	602.37
CL. BRG. PIER 2	33+09.97	-27.58	602.40	602.40
3A	33+19.97	-27.58	602.61	602.72
3B	33+29.97	-27.58	602.82	603.02
3C	33+39.97	-27.58	603.03	603.32
3D	33+49.97	-27.58	603.23	603.60
3E	33+59.97	-27.58	603.43	603.86
3F	33+69.97	-27.58	603.62	604.10
3G	33+79.97	-27.58	603.81	604.33
3H	33+89.97	-27.58	604.00	604.53
3J	33+99.97	-27.58	604.18	604.71
3K	34+09.97	-27.58	604.36	604.87
3L	34+19.97	-27.58	604.53	605.01
3M	34+29.97	-27.58	604.70	605.14
3N	34+39.97	-27.58	604.87	605.25
3P	34+49.97	-27.58	605.03	605.34
3Q	34+59.97	-27.58	605.19	605.43
3R	34+69.97	-27.58	605.34	605.51
3S	34+79.97	-27.58	605.49	605.60
3T	34+89.97	-27.58	605.64	605.68
CL. BRG. PIER 3	34+97.47	-27.58	605.75	605.75
4A	35+07.47	-27.58	605.89	605.85
4B	35+17.47	-27.58	606.02	605.95
4C	35+27.47	-27.58	606.15	606.06
4D	35+37.47	-27.58	606.28	606.17
4E	35+47.47	-27.58	606.40	606.29
4F	35+57.47	-27.58	606.52	606.40
4G	35+67.47	-27.58	606.64	606.51
4H	35+77.47	-27.58	606.75	606.62
4J	35+87.47	-27.58	606.86	606.73
4K	35+97.47	-27.58	606.96	606.84
4L	36+07.47	-27.58	607.06	606.94
4M	36+17.47	-27.58	607.15	607.05
4N	36+27.47	-27.58	607.25	607.16
4P	36+37.47	-27.58	607.33	607.27
4Q	36+47.47	-27.58	607.42	607.38
CL. BRG. PIER 4	36+55.47	-27.58	607.48	607.48
5A	36+65.47	-27.58	607.56	607.61
5B	36+75.47	-27.58	607.63	607.75
5C	36+85.47	-27.58	607.70	607.88
5D	36+95.47	-27.58	607.76	608.02
5E	37+05.47	-27.58	607.82	608.15
5F	37+15.47	-27.58	607.88	608.27
5G	37+25.47	-27.58	607.93	608.38
5H	37+35.47	-27.58	607.98	608.47
5J	37+45.47	-27.58	608.03	608.55
5K	37+55.47	-27.58	608.08	608.61
5L	37+65.47	-27.58	608.13	608.66
5M	37+75.47	-27.58	608.18	608.69
5N	37+85.47	-27.58	608.23	608.70
5P	37+95.47	-27.58	608.28	608.70
5Q	38+05.47	-27.58	608.33	608.68
5R	38+15.47	-27.58	608.39	608.65
5S	38+25.47	-27.58	608.44	608.61
5T	38+35.47	-27.58	608.49	608.56
CL. BRG. PIER 5	38+42.97	-27.58	608.52	608.52
CL. JT. & PIER 5	38+44.47	-27.58	608.53	608.53

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+11.09	-18.13	602.62	602.62
CL. BRG. PIER 2	33+12.59	-18.13	602.65	602.65
3A	33+22.59	-18.13	602.86	602.96
3B	33+32.59	-18.13	603.07	603.26
3C	33+42.59	-18.13	603.27	603.56
3D	33+52.59	-18.13	603.47	603.84
3E	33+62.59	-18.13	603.67	604.10
3F	33+72.59	-18.13	603.86	604.34
3G	33+82.59	-18.13	604.05	604.56
3H	33+92.59	-18.13	604.24	604.77
3J	34+02.59	-18.13	604.42	604.95
3K	34+12.59	-18.13	604.59	605.11
3L	34+22.59	-18.13	604.77	605.25
3M	34+32.59	-18.13	604.94	605.37
3N	34+42.59	-18.13	605.10	605.48
3P	34+52.59	-18.13	605.26	605.57
3Q	34+62.59	-18.13	605.42	605.66
3R	34+72.59	-18.13	605.57	605.74
3S	34+82.59	-18.13	605.72	605.82
3T	34+92.59	-18.13	605.87	605.91
CL. BRG. PIER 3	35+00.09	-18.13	605.97	605.97
4A	35+10.09	-18.13	606.11	606.07
4B	35+20.09	-18.13	606.25	606.17
4C	35+30.09	-18.13	606.38	606.28
4D	35+40.09	-18.13	606.50	606.39
4E	35+50.09	-18.13	606.62	606.51
4F	35+60.09	-18.13	606.74	606.62
4G	35+70.09	-18.13	606.86	606.73
4H	35+80.09	-18.13	606.97	606.84
4J	35+90.09	-18.13	607.07	606.95
4K	36+00.09	-18.13	607.18	607.05
4L	36+10.09	-18.13	607.27	607.16
4M	36+20.09	-18.13	607.37	607.26
4N	36+30.09	-18.13	607.46	607.37
4P	36+40.09	-18.13	607.54	607.48
4Q	36+50.09	-18.13	607.63	607.59
CL. BRG. PIER 4	36+58.09	-18.13	607.69	607.69
5A	36+68.09	-18.13	607.77	607.82
5B	36+78.09	-18.13	607.84	607.95
5C	36+88.09	-18.13	607.90	608.09
5D	36+98.09	-18.13	607.97	608.23
5E	37+08.09	-18.13	608.03	608.35
5F	37+18.09	-18.13	608.08	608.47
5G	37+28.09	-18.13	608.13	608.58
5H	37+38.09	-18.13	608.18	608.67
5J	37+48.09	-18.13	608.23	608.75
5K	37+58.09	-18.13	608.28	608.82
5L	37+68.09	-18.13	608.34	608.86
5M	37+78.09	-18.13	608.39	608.89
5N	37+88.09	-18.13	608.44	608.91
5P	37+98.09	-18.13	608.49	608.90
5Q	38+08.09	-18.13	608.54	608.88
5R	38+18.09	-18.13	608.59	608.85
5S	38+28.09	-18.13	608.64	608.81
5T	38+38.09	-18.13	608.69	608.77
CL. BRG. PIER 5	38+45.59	-18.13	608.73	608.73
CL. JT. & PIER 5	38+47.09	-18.13	608.73	608.73

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+13.72	-8.67	602.73	602.73
CL. BRG. PIER 2	33+15.22	-8.67	602.76	602.76
3A	33+25.22	-8.67	602.97	603.07
3B	33+35.22	-8.67	603.18	603.37
3C	33+45.22	-8.67	603.38	603.67
3D	33+55.22	-8.67	603.58	603.94
3E	33+65.22	-8.67	603.78	604.21
3F	33+75.22	-8.67	603.97	604.45
3G	33+85.22	-8.67	604.16	604.67
3H	33+95.22	-8.67	604.34	604.87
3J	34+05.22	-8.67	604.52	605.05
3K	34+15.22	-8.67	604.70	605.21
3L	34+25.22	-8.67	604.87	605.35
3M	34+35.22	-8.67	605.04	605.47
3N	34+45.22	-8.67	605.20	605.58
3P	34+55.22	-8.67	605.36	605.67
3Q	34+65.22	-8.67	605.52	605.76
3R	34+75.22	-8.67	605.67	605.84
3S	34+85.22	-8.67	605.82	605.92
3T	34+95.22	-8.67	605.96	606.00
CL. BRG. PIER 3	35+02.72	-8.67	606.07	606.07
4A	35+12.72	-8.67	606.20	606.16
4B	35+22.72	-8.67	606.34	606.26
4C	35+32.72	-8.67	606.47	606.37
4D	35+42.72	-8.67	606.59	606.48
4E	35+52.72	-8.67	606.71	606.59
4F	35+62.72	-8.67	606.83	606.71
4G	35+72.72	-8.67	606.94	606.82
4H	35+82.72	-8.67	607.05	606.92
4J	35+92.72	-8.67	607.16	607.03
4K	36+02.72	-8.67	607.26	607.14
4L	36+12.72	-8.67	607.35	607.24
4M	36+22.72	-8.67	607.45	607.34
4N	36+32.72	-8.67	607.54	607.45
4P	36+42.72	-8.67	607.62	607.56
4Q	36+52.72	-8.67	607.70	607.67
CL. BRG. PIER 4	36+60.72	-8.67	607.77	607.77
5A	36+70.72	-8.67	607.84	607.90
5B	36+80.72	-8.67	607.91	608.03
5C	36+90.72	-8.67	607.98	608.16
5D	37+00.72	-8.67	608.04	608.30
5E	37+10.72	-8.67	608.10	608.43
5F	37+20.72	-8.67	608.15	608.54
5G	37+30.72	-8.67	608.20	608.65
5H	37+40.72	-8.67	608.25	608.74
5J	37+50.72	-8.67	608.30	608.82
5K	37+60.72	-8.67	608.35	608.89
5L	37+70.72	-8.67	608.40	608.93
5M	37+80.72	-8.67	608.45	608.96
5N	37+90.72	-8.67	608.51	608.98
5P	38+00.72	-8.67	608.56	608.97
5Q	38+10.72	-8.67	608.61	608.95
5R	38+20.72	-8.67	608.66	608.92
5S	38+30.72	-8.67	608.71	608.88
5T	38+40.72	-8.67	608.76	608.83
CL. BRG. PIER 5	38+48.22	-8.67	608.80	608.80
CL. JT. & PIER 5	38+49.72	-8.67	608.80	608.80

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E-S 7-1-10

FILENAME = 081-0177-C00AB-017-Top of Slab Elevations Unit 2 (2 of 3).dgn	USER NAME = ksnider	DESIGNED - DTS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 2 (2 of 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S17 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	786
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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P.G. WB I-74

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+16.34	0.79	602.59	602.59
CL. BRG. PIER 2	33+17.84	0.79	602.62	602.62
3A	33+27.84	0.79	602.83	602.94
3B	33+37.84	0.79	603.04	603.24
3C	33+47.84	0.79	603.24	603.53
3D	33+57.84	0.79	603.44	603.81
3E	33+67.84	0.79	603.64	604.07
3F	33+77.84	0.79	603.83	604.31
3G	33+87.84	0.79	604.02	604.53
3H	33+97.84	0.79	604.20	604.73
3J	34+07.84	0.79	604.38	604.91
3K	34+17.84	0.79	604.55	605.06
3L	34+27.84	0.79	604.72	605.20
3M	34+37.84	0.79	604.89	605.32
3N	34+47.84	0.79	605.05	605.43
3P	34+57.84	0.79	605.21	605.52
3Q	34+67.84	0.79	605.37	605.61
3R	34+77.84	0.79	605.52	605.69
3S	34+87.84	0.79	605.67	605.77
3T	34+97.84	0.79	605.81	605.85
CL. BRG. PIER 3	35+05.34	0.79	605.91	605.91
4A	35+15.34	0.79	606.05	606.01
4B	35+25.34	0.79	606.18	606.11
4C	35+35.34	0.79	606.31	606.21
4D	35+45.34	0.79	606.43	606.32
4E	35+55.34	0.79	606.55	606.44
4F	35+65.34	0.79	606.67	606.55
4G	35+75.34	0.79	606.78	606.66
4H	35+85.34	0.79	606.89	606.76
4J	35+95.34	0.79	606.99	606.87
4K	36+05.34	0.79	607.09	606.97
4L	36+15.34	0.79	607.19	607.07
4M	36+25.34	0.79	607.28	607.18
4N	36+35.34	0.79	607.37	607.28
4P	36+45.34	0.79	607.46	607.39
4Q	36+55.34	0.79	607.54	607.50
CL. BRG. PIER 4	36+63.34	0.79	607.60	607.60
5A	36+73.34	0.79	607.67	607.73
5B	36+83.34	0.79	607.74	607.86
5C	36+93.34	0.79	607.80	607.99
5D	37+03.34	0.79	607.87	608.12
5E	37+13.34	0.79	607.92	608.25
5F	37+23.34	0.79	607.98	608.37
5G	37+33.34	0.79	608.03	608.47
5H	37+43.34	0.79	608.08	608.57
5J	37+53.34	0.79	608.13	608.65
5K	37+63.34	0.79	608.18	608.71
5L	37+73.34	0.79	608.23	608.76
5M	37+83.34	0.79	608.28	608.79
5N	37+93.34	0.79	608.33	608.80
5P	38+03.34	0.79	608.38	608.80
5Q	38+13.34	0.79	608.43	608.78
5R	38+23.34	0.79	608.48	608.75
5S	38+33.34	0.79	608.53	608.71
5T	38+43.34	0.79	608.58	608.66
CL. BRG. PIER 5	38+50.84	0.79	608.62	608.62
CL. JT. & PIER 5	38+52.34	0.79	608.63	608.63

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 2	33+18.96	10.25	602.46	602.46
CL. BRG. PIER 2	33+20.46	10.25	602.49	602.49
3A	33+30.46	10.25	602.70	602.80
3B	33+40.46	10.25	602.90	603.10
3C	33+50.46	10.25	603.11	603.39
3D	33+60.46	10.25	603.30	603.67
3E	33+70.46	10.25	603.50	603.93
3F	33+80.46	10.25	603.69	604.17
3G	33+90.46	10.25	603.87	604.39
3H	34+00.46	10.25	604.06	604.59
3J	34+10.46	10.25	604.23	604.76
3K	34+20.46	10.25	604.41	604.92
3L	34+30.46	10.25	604.58	605.06
3M	34+40.46	10.25	604.74	605.18
3N	34+50.46	10.25	604.91	605.28
3P	34+60.46	10.25	605.06	605.37
3Q	34+70.46	10.25	605.22	605.46
3R	34+80.46	10.25	605.37	605.54
3S	34+90.46	10.25	605.51	605.62
3T	35+00.46	10.25	605.66	605.70
CL. BRG. PIER 3	35+07.96	10.25	605.76	605.76
4A	35+17.96	10.25	605.89	605.85
4B	35+27.96	10.25	606.03	605.95
4C	35+37.96	10.25	606.15	606.06
4D	35+47.96	10.25	606.28	606.17
4E	35+57.96	10.25	606.40	606.28
4F	35+67.96	10.25	606.51	606.39
4G	35+77.96	10.25	606.62	606.50
4H	35+87.96	10.25	606.73	606.60
4J	35+97.96	10.25	606.83	606.71
4K	36+07.96	10.25	606.93	606.81
4L	36+17.96	10.25	607.03	606.91
4M	36+27.96	10.25	607.12	607.01
4N	36+37.96	10.25	607.20	607.11
4P	36+47.96	10.25	607.29	607.22
4Q	36+57.96	10.25	607.37	607.33
CL. BRG. PIER 4	36+65.96	10.25	607.43	607.43
5A	36+75.96	10.25	607.50	607.56
5B	36+85.96	10.25	607.57	607.69
5C	36+95.96	10.25	607.63	607.82
5D	37+05.96	10.25	607.69	607.95
5E	37+15.96	10.25	607.75	608.08
5F	37+25.96	10.25	607.80	608.19
5G	37+35.96	10.25	607.85	608.30
5H	37+45.96	10.25	607.90	608.39
5J	37+55.96	10.25	607.95	608.47
5K	37+65.96	10.25	608.00	608.53
5L	37+75.96	10.25	608.05	608.58
5M	37+85.96	10.25	608.10	608.61
5N	37+95.96	10.25	608.15	608.62
5P	38+05.96	10.25	608.20	608.62
5Q	38+15.96	10.25	608.25	608.60
5R	38+25.96	10.25	608.30	608.57
5S	38+35.96	10.25	608.36	608.53
5T	38+45.96	10.25	608.41	608.48
CL. BRG. PIER 5	38+53.46	10.25	608.44	608.44
CL. JT. & PIER 5	38+54.96	10.25	608.45	608.45

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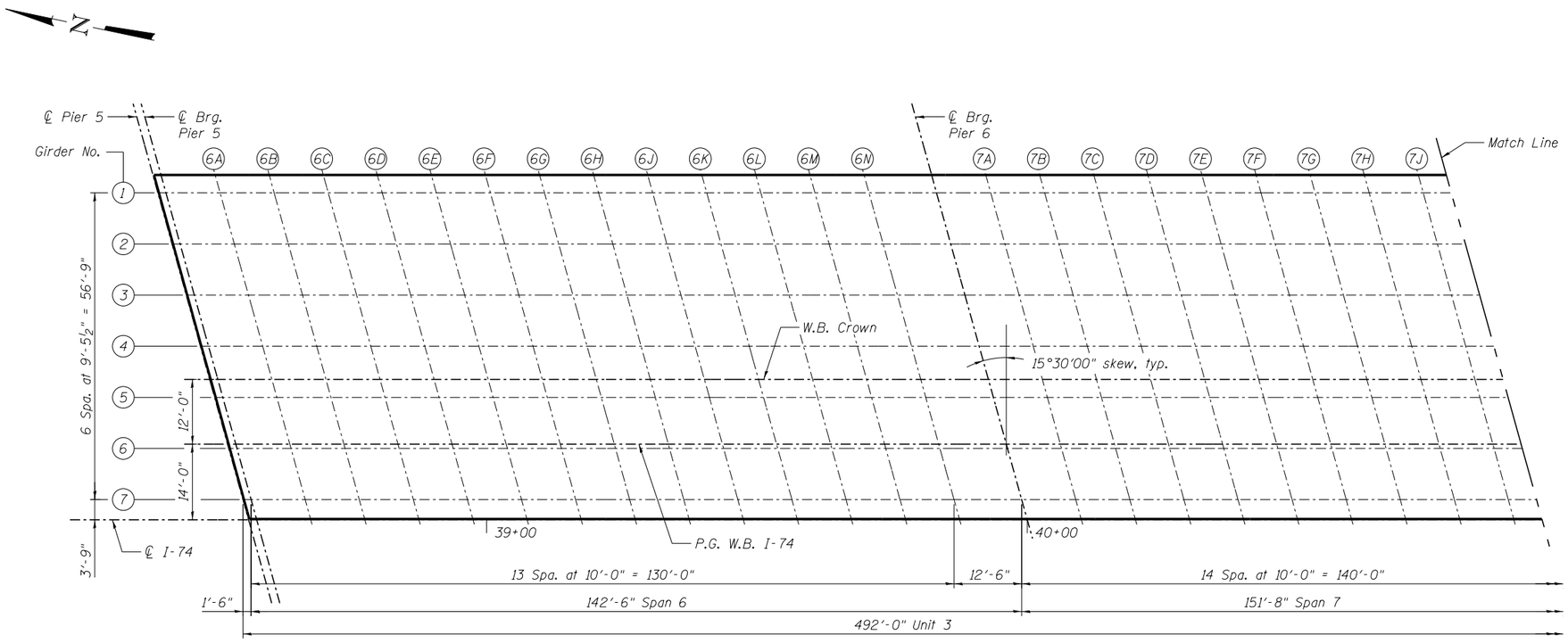
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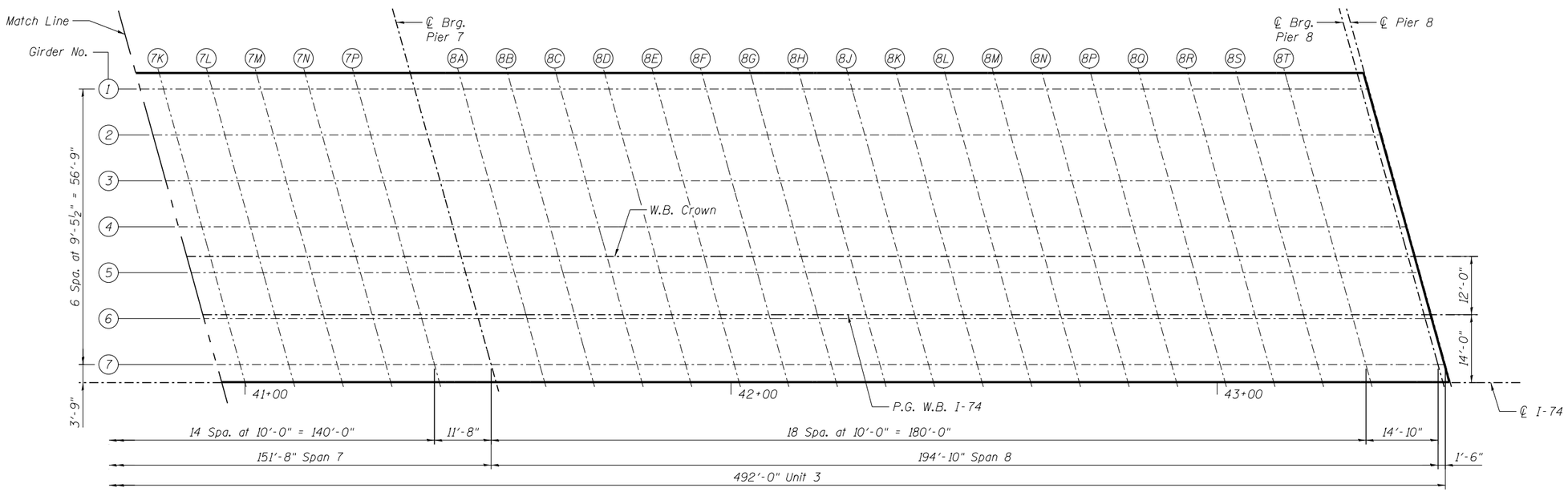
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 2 (3 of 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S18 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	787
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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PLAN

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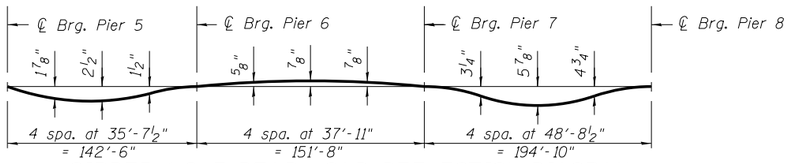
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MODEL = Default	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATION PLAN UNIT 3
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S19 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	788
		CONTRACT NO. 64C08		
	ILLINOIS	FED. AID PROJECT		

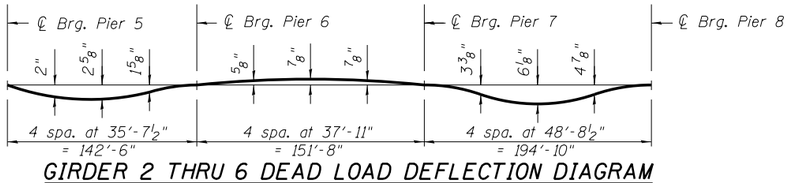
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GIRDER 1 & 7 DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

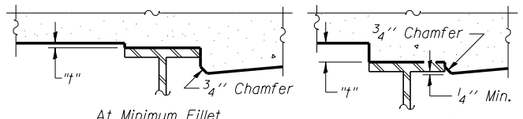
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S20 thru S22.



GIRDER 2 THRU 6 DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S20 thru 22.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+39.22	-46.50	608.13	608.13
CL. BRG. PIER 5	38+40.72	-46.50	608.13	608.13
6A	38+50.72	-46.50	608.18	608.24
6B	38+60.72	-46.50	608.24	608.33
6C	38+70.72	-46.50	608.29	608.43
6D	38+80.72	-46.50	608.34	608.51
6E	38+90.72	-46.50	608.39	608.58
6F	39+00.72	-46.50	608.44	608.65
6G	39+10.72	-46.50	608.49	608.70
6H	39+20.72	-46.50	608.54	608.74
6J	39+30.72	-46.50	608.59	608.77
6K	39+40.72	-46.50	608.64	608.79
6L	39+50.72	-46.50	608.69	608.81
6M	39+60.72	-46.50	608.74	608.82
6N	39+70.72	-46.50	608.79	608.83
CL. BRG. PIER 6	39+83.22	-46.50	608.85	608.85
7A	39+93.22	-46.50	608.90	608.88
7B	40+03.22	-46.50	608.96	608.92
7C	40+13.22	-46.50	609.01	608.96
7D	40+23.22	-46.50	609.06	609.01
7E	40+33.22	-46.50	609.11	609.05
7F	40+43.22	-46.50	609.16	609.10
7G	40+53.22	-46.50	609.21	609.14
7H	40+63.22	-46.50	609.26	609.19
7J	40+73.22	-46.50	609.31	609.24
7K	40+83.22	-46.50	609.36	609.28
7L	40+93.22	-46.50	609.41	609.34
7M	41+03.22	-46.50	609.46	609.39
7N	41+13.22	-46.50	609.51	609.46
7P	41+23.22	-46.50	609.56	609.53
CL. BRG. PIER 7	41+34.89	-46.50	609.62	609.62
8A	41+44.89	-46.50	609.67	609.71
8B	41+54.89	-46.50	609.72	609.82
8C	41+64.89	-46.50	609.77	609.92
8D	41+74.89	-46.50	609.82	610.04
8E	41+84.89	-46.50	609.87	610.15
8F	41+94.89	-46.50	609.92	610.26
8G	42+04.89	-46.50	609.97	610.37
8H	42+14.89	-46.50	610.02	610.46
8J	42+24.89	-46.50	610.07	610.55
8K	42+34.89	-46.50	610.12	610.62
8L	42+44.89	-46.50	610.18	610.67
8M	42+54.89	-46.50	610.23	610.71
8N	42+64.89	-46.50	610.28	610.74
8P	42+74.89	-46.50	610.33	610.75
8Q	42+84.89	-46.50	610.38	610.75
8R	42+94.89	-46.50	610.43	610.73
8S	43+04.89	-46.50	610.48	610.70
8T	43+14.89	-46.50	610.53	610.67
CL. BRG. PIER 8	43+29.72	-46.50	610.60	610.60
CL. JT. & PIER 8	43+31.22	-46.50	610.61	610.61

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+41.85	-37.04	608.33	608.33
CL. BRG. PIER 5	38+43.35	-37.04	608.34	608.34
6A	38+53.35	-37.04	608.39	608.44
6B	38+63.35	-37.04	608.44	608.54
6C	38+73.35	-37.04	608.49	608.64
6D	38+83.35	-37.04	608.54	608.72
6E	38+93.35	-37.04	608.59	608.80
6F	39+03.35	-37.04	608.64	608.86
6G	39+13.35	-37.04	608.69	608.91
6H	39+23.35	-37.04	608.74	608.95
6J	39+33.35	-37.04	608.79	608.98
6K	39+43.35	-37.04	608.84	609.00
6L	39+53.35	-37.04	608.89	609.01
6M	39+63.35	-37.04	608.94	609.02
6N	39+73.35	-37.04	608.99	609.04
CL. BRG. PIER 6	39+85.85	-37.04	609.06	609.06
7A	39+95.85	-37.04	609.11	609.09
7B	40+05.85	-37.04	609.16	609.12
7C	40+15.85	-37.04	609.21	609.16
7D	40+25.85	-37.04	609.26	609.21
7E	40+35.85	-37.04	609.31	609.25
7F	40+45.85	-37.04	609.36	609.30
7G	40+55.85	-37.04	609.41	609.34
7H	40+65.85	-37.04	609.46	609.39
7J	40+75.85	-37.04	609.51	609.43
7K	40+85.85	-37.04	609.56	609.48
7L	40+95.85	-37.04	609.61	609.54
7M	41+05.85	-37.04	609.66	609.59
7N	41+15.85	-37.04	609.71	609.66
7P	41+25.85	-37.04	609.76	609.73
CL. BRG. PIER 7	41+37.52	-37.04	609.82	609.82
8A	41+47.52	-37.04	609.87	609.92
8B	41+57.52	-37.04	609.92	610.02
8C	41+67.52	-37.04	609.97	610.13
8D	41+77.52	-37.04	610.02	610.25
8E	41+87.52	-37.04	610.07	610.37
8F	41+97.52	-37.04	610.13	610.48
8G	42+07.52	-37.04	610.18	610.59
8H	42+17.52	-37.04	610.23	610.69
8J	42+27.52	-37.04	610.28	610.77
8K	42+37.52	-37.04	610.33	610.84
8L	42+47.52	-37.04	610.38	610.90
8M	42+57.52	-37.04	610.43	610.94
8N	42+67.52	-37.04	610.48	610.96
8P	42+77.52	-37.04	610.53	610.97
8Q	42+87.52	-37.04	610.58	610.96
8R	42+97.52	-37.04	610.63	610.94
8S	43+07.52	-37.04	610.68	610.91
8T	43+17.52	-37.04	610.73	610.87
CL. BRG. PIER 8	43+32.35	-37.04	610.81	610.81
CL. JT. & PIER 8	43+33.85	-37.04	610.81	610.81

NOTE:
1. Offset measured from P.G. WB I-74.

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-020-Top of Slab Elevations Unit 3 (1 of 3).dgn	USER NAME = ksnider	DESIGNED - DTS	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL = Default	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 3 (1 of 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S20 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	789
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+44.47	-27.58	608.53	608.53
CL. BRG. PIER 5	38+45.97	-27.58	608.54	608.54
6A	38+55.97	-27.58	608.59	608.64
6B	38+65.97	-27.58	608.64	608.74
6C	38+75.97	-27.58	608.69	608.84
6D	38+85.97	-27.58	608.74	608.92
6E	38+95.97	-27.58	608.79	609.00
6F	39+05.97	-27.58	608.84	609.06
6G	39+15.97	-27.58	608.89	609.11
6H	39+25.97	-27.58	608.94	609.15
6J	39+35.97	-27.58	608.99	609.18
6K	39+45.97	-27.58	609.04	609.20
6L	39+55.97	-27.58	609.09	609.22
6M	39+65.97	-27.58	609.15	609.23
6N	39+75.97	-27.58	609.20	609.24
CL. BRG. PIER 6	39+88.47	-27.58	609.26	609.26
7A	39+98.47	-27.58	609.31	609.29
7B	40+08.47	-27.58	609.36	609.32
7C	40+18.47	-27.58	609.41	609.36
7D	40+28.47	-27.58	609.46	609.41
7E	40+38.47	-27.58	609.51	609.45
7F	40+48.47	-27.58	609.56	609.50
7G	40+58.47	-27.58	609.61	609.54
7H	40+68.47	-27.58	609.66	609.59
7J	40+78.47	-27.58	609.71	609.64
7K	40+88.47	-27.58	609.76	609.69
7L	40+98.47	-27.58	609.81	609.74
7M	41+08.47	-27.58	609.86	609.80
7N	41+18.47	-27.58	609.92	609.86
7P	41+28.47	-27.58	609.97	609.93
CL. BRG. PIER 7	41+40.14	-27.58	610.02	610.02
8A	41+50.14	-27.58	610.08	610.12
8B	41+60.14	-27.58	610.13	610.22
8C	41+70.14	-27.58	610.18	610.34
8D	41+80.14	-27.58	610.23	610.45
8E	41+90.14	-27.58	610.28	610.57
8F	42+00.14	-27.58	610.33	610.68
8G	42+10.14	-27.58	610.38	610.79
8H	42+20.14	-27.58	610.43	610.89
8J	42+30.14	-27.58	610.48	610.97
8K	42+40.14	-27.58	610.53	611.04
8L	42+50.14	-27.58	610.58	611.10
8M	42+60.14	-27.58	610.63	611.14
8N	42+70.14	-27.58	610.68	611.16
8P	42+80.14	-27.58	610.73	611.17
8Q	42+90.14	-27.58	610.78	611.17
8R	43+00.14	-27.58	610.83	611.15
8S	43+10.14	-27.58	610.88	611.12
8T	43+20.14	-27.58	610.93	611.08
CL. BRG. PIER 8	43+34.97	-27.58	611.01	611.01
CL. JT. & PIER 8	43+36.47	-27.58	611.02	611.02

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+47.09	-18.13	608.73	608.73
CL. BRG. PIER 5	38+48.59	-18.13	608.74	608.74
6A	38+58.59	-18.13	608.79	608.85
6B	38+68.59	-18.13	608.84	608.95
6C	38+78.59	-18.13	608.89	609.04
6D	38+88.59	-18.13	608.94	609.13
6E	38+98.59	-18.13	608.99	609.20
6F	39+08.59	-18.13	609.04	609.26
6G	39+18.59	-18.13	609.10	609.32
6H	39+28.59	-18.13	609.15	609.36
6J	39+38.59	-18.13	609.20	609.38
6K	39+48.59	-18.13	609.25	609.41
6L	39+58.59	-18.13	609.30	609.42
6M	39+68.59	-18.13	609.35	609.43
6N	39+78.59	-18.13	609.40	609.44
CL. BRG. PIER 6	39+91.09	-18.13	609.46	609.46
7A	40+01.09	-18.13	609.51	609.49
7B	40+11.09	-18.13	609.56	609.53
7C	40+21.09	-18.13	609.61	609.57
7D	40+31.09	-18.13	609.66	609.61
7E	40+41.09	-18.13	609.71	609.66
7F	40+51.09	-18.13	609.76	609.70
7G	40+61.09	-18.13	609.81	609.75
7H	40+71.09	-18.13	609.87	609.79
7J	40+81.09	-18.13	609.92	609.84
7K	40+91.09	-18.13	609.97	609.89
7L	41+01.09	-18.13	610.02	609.94
7M	41+11.09	-18.13	610.07	610.00
7N	41+21.09	-18.13	610.12	610.06
7P	41+31.09	-18.13	610.17	610.13
CL. BRG. PIER 7	41+42.76	-18.13	610.23	610.23
8A	41+52.76	-18.13	610.28	610.32
8B	41+62.76	-18.13	610.33	610.43
8C	41+72.76	-18.13	610.38	610.54
8D	41+82.76	-18.13	610.43	610.65
8E	41+92.76	-18.13	610.48	610.77
8F	42+02.76	-18.13	610.53	610.89
8G	42+12.76	-18.13	610.58	610.99
8H	42+22.76	-18.13	610.63	611.09
8J	42+32.76	-18.13	610.68	611.17
8K	42+42.76	-18.13	610.73	611.25
8L	42+52.76	-18.13	610.78	611.30
8M	42+62.76	-18.13	610.83	611.34
8N	42+72.76	-18.13	610.88	611.37
8P	42+82.76	-18.13	610.93	611.37
8Q	42+92.76	-18.13	610.98	611.37
8R	43+02.76	-18.13	611.04	611.35
8S	43+12.76	-18.13	611.09	611.32
8T	43+22.76	-18.13	611.14	611.28
CL. BRG. PIER 8	43+37.59	-18.13	611.21	611.21
CL. JT. & PIER 8	43+39.09	-18.13	611.22	611.22

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+49.72	-8.67	608.80	608.80
CL. BRG. PIER 5	38+51.22	-8.67	608.81	608.81
6A	38+61.22	-8.67	608.86	608.92
6B	38+71.22	-8.67	608.91	609.02
6C	38+81.22	-8.67	608.96	609.11
6D	38+91.22	-8.67	609.01	609.19
6E	39+01.22	-8.67	609.06	609.27
6F	39+11.22	-8.67	609.11	609.33
6G	39+21.22	-8.67	609.16	609.38
6H	39+31.22	-8.67	609.21	609.42
6J	39+41.22	-8.67	609.27	609.45
6K	39+51.22	-8.67	609.32	609.48
6L	39+61.22	-8.67	609.37	609.49
6M	39+71.22	-8.67	609.42	609.50
6N	39+81.22	-8.67	609.47	609.51
CL. BRG. PIER 6	39+93.72	-8.67	609.53	609.53
7A	40+03.72	-8.67	609.58	609.56
7B	40+13.72	-8.67	609.63	609.59
7C	40+23.72	-8.67	609.68	609.64
7D	40+33.72	-8.67	609.73	609.68
7E	40+43.72	-8.67	609.78	609.72
7F	40+53.72	-8.67	609.83	609.77
7G	40+63.72	-8.67	609.88	609.82
7H	40+73.72	-8.67	609.93	609.86
7J	40+83.72	-8.67	609.98	609.91
7K	40+93.72	-8.67	610.04	609.96
7L	41+03.72	-8.67	610.09	610.01
7M	41+13.72	-8.67	610.14	610.07
7N	41+23.72	-8.67	610.19	610.13
7P	41+33.72	-8.67	610.24	610.20
CL. BRG. PIER 7	41+45.39	-8.67	610.30	610.30
8A	41+55.39	-8.67	610.35	610.39
8B	41+65.39	-8.67	610.40	610.50
8C	41+75.39	-8.67	610.45	610.61
8D	41+85.39	-8.67	610.50	610.72
8E	41+95.39	-8.67	610.55	610.84
8F	42+05.39	-8.67	610.60	610.95
8G	42+15.39	-8.67	610.65	611.06
8H	42+25.39	-8.67	610.70	611.16
8J	42+35.39	-8.67	610.75	611.24
8K	42+45.39	-8.67	610.80	611.32
8L	42+55.39	-8.67	610.85	611.37
8M	42+65.39	-8.67	610.90	611.41
8N	42+75.39	-8.67	610.95	611.44
8P	42+85.39	-8.67	611.00	611.44
8Q	42+95.39	-8.67	611.05	611.44
8R	43+05.39	-8.67	611.10	611.42
8S	43+15.39	-8.67	611.15	611.39
8T	43+25.39	-8.67	611.21	611.35
CL. BRG. PIER 8	43+40.22	-8.67	611.28	611.28
CL. JT. & PIER 8	43+41.72	-8.67	611.29	611.29

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205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-021-Top of Slab Elevations Unit 3 (2 of 3).dgn	USER NAME = ksnider	DESIGNED - DTS	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
MODEL = Default	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 3 (2 of 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S21 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	790
		CONTRACT NO. 64C08		
ILLINOIS	FED. AID PROJECT			

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P.G. WB I-74

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+52.12	0.00	608.64	608.64
CL. BRG. PIER 5	38+53.62	0.00	608.65	608.65
6A	38+63.62	0.00	608.70	608.75
6B	38+73.62	0.00	608.75	608.85
6C	38+83.62	0.00	608.80	608.95
6D	38+93.62	0.00	608.85	609.03
6E	39+03.62	0.00	608.90	609.11
6F	39+13.62	0.00	608.95	609.17
6G	39+23.62	0.00	609.00	609.22
6H	39+33.62	0.00	609.05	609.26
6J	39+43.62	0.00	609.10	609.29
6K	39+53.62	0.00	609.15	609.31
6L	39+63.62	0.00	609.21	609.33
6M	39+73.62	0.00	609.26	609.34
6N	39+83.62	0.00	609.31	609.35
CL. BRG. PIER 6	39+96.12	0.00	609.37	609.37
7A	40+06.12	0.00	609.42	609.40
7B	40+16.12	0.00	609.47	609.43
7C	40+26.12	0.00	609.52	609.47
7D	40+36.12	0.00	609.57	609.52
7E	40+46.12	0.00	609.62	609.56
7F	40+56.12	0.00	609.67	609.61
7G	40+66.12	0.00	609.72	609.65
7H	40+76.12	0.00	609.77	609.70
7J	40+86.12	0.00	609.82	609.75
7K	40+96.12	0.00	609.87	609.80
7L	41+06.12	0.00	609.92	609.85
7M	41+16.12	0.00	609.98	609.91
7N	41+26.12	0.00	610.03	609.97
7P	41+36.12	0.00	610.08	610.04
CL. BRG. PIER 7	41+47.79	0.00	610.14	610.14
8A	41+57.79	0.00	610.19	610.23
8B	41+67.79	0.00	610.24	610.34
8C	41+77.79	0.00	610.29	610.45
8D	41+87.79	0.00	610.34	610.56
8E	41+97.79	0.00	610.39	610.68
8F	42+07.79	0.00	610.44	610.79
8G	42+17.79	0.00	610.49	610.90
8H	42+27.79	0.00	610.54	611.00
8J	42+37.79	0.00	610.59	611.08
8K	42+47.79	0.00	610.64	611.15
8L	42+57.79	0.00	610.69	611.21
8M	42+67.79	0.00	610.74	611.25
8N	42+77.79	0.00	610.79	611.27
8P	42+87.79	0.00	610.84	611.28
8Q	42+97.79	0.00	610.89	611.28
8R	43+07.79	0.00	610.94	611.26
8S	43+17.79	0.00	610.99	611.23
8T	43+27.79	0.00	611.04	611.19
CL. BRG. PIER 8	43+42.62	0.00	611.12	611.12
CL. JT. & PIER 8	43+44.12	0.00	611.13	611.13

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+52.34	0.79	608.63	608.63
CL. BRG. PIER 5	38+53.84	0.79	608.63	608.63
6A	38+63.84	0.79	608.69	608.74
6B	38+73.84	0.79	608.74	608.84
6C	38+83.84	0.79	608.79	608.93
6D	38+93.84	0.79	608.84	609.02
6E	39+03.84	0.79	608.89	609.09
6F	39+13.84	0.79	608.94	609.16
6G	39+23.84	0.79	608.99	609.21
6H	39+33.84	0.79	609.04	609.25
6J	39+43.84	0.79	609.09	609.28
6K	39+53.84	0.79	609.14	609.30
6L	39+63.84	0.79	609.19	609.31
6M	39+73.84	0.79	609.24	609.32
6N	39+83.84	0.79	609.29	609.33
CL. BRG. PIER 6	39+96.34	0.79	609.35	609.35
7A	40+06.34	0.79	609.40	609.38
7B	40+16.34	0.79	609.46	609.42
7C	40+26.34	0.79	609.51	609.46
7D	40+36.34	0.79	609.56	609.50
7E	40+46.34	0.79	609.61	609.55
7F	40+56.34	0.79	609.66	609.59
7G	40+66.34	0.79	609.71	609.64
7H	40+76.34	0.79	609.76	609.69
7J	40+86.34	0.79	609.81	609.73
7K	40+96.34	0.79	609.86	609.78
7L	41+06.34	0.79	609.91	609.83
7M	41+16.34	0.79	609.96	609.89
7N	41+26.34	0.79	610.01	609.95
7P	41+36.34	0.79	610.06	610.03
CL. BRG. PIER 7	41+48.01	0.79	610.12	610.12
8A	41+58.01	0.79	610.17	610.22
8B	41+68.01	0.79	610.22	610.32
8C	41+78.01	0.79	610.27	610.43
8D	41+88.01	0.79	610.32	610.55
8E	41+98.01	0.79	610.37	610.66
8F	42+08.01	0.79	610.42	610.78
8G	42+18.01	0.79	610.47	610.89
8H	42+28.01	0.79	610.52	610.98
8J	42+38.01	0.79	610.57	611.07
8K	42+48.01	0.79	610.63	611.14
8L	42+58.01	0.79	610.68	611.20
8M	42+68.01	0.79	610.73	611.24
8N	42+78.01	0.79	610.78	611.26
8P	42+88.01	0.79	610.83	611.27
8Q	42+98.01	0.79	610.88	611.26
8R	43+08.01	0.79	610.93	611.24
8S	43+18.01	0.79	610.98	611.21
8T	43+28.01	0.79	611.03	611.17
CL. BRG. PIER 8	43+42.84	0.79	611.10	611.10
CL. JT. & PIER 8	43+44.34	0.79	611.11	611.11

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 5	38+54.96	10.25	608.45	608.45
CL. BRG. PIER 5	38+56.46	10.25	608.46	608.46
6A	38+66.46	10.25	608.51	608.56
6B	38+76.46	10.25	608.56	608.66
6C	38+86.46	10.25	608.61	608.75
6D	38+96.46	10.25	608.66	608.83
6E	39+06.46	10.25	608.71	608.91
6F	39+16.46	10.25	608.76	608.97
6G	39+26.46	10.25	608.81	609.02
6H	39+36.46	10.25	608.86	609.06
6J	39+46.46	10.25	608.91	609.09
6K	39+56.46	10.25	608.96	609.12
6L	39+66.46	10.25	609.01	609.13
6M	39+76.46	10.25	609.06	609.14
6N	39+86.46	10.25	609.12	609.16
CL. BRG. PIER 6	39+98.96	10.25	609.18	609.18
7A	40+08.96	10.25	609.23	609.21
7B	40+18.96	10.25	609.28	609.24
7C	40+28.96	10.25	609.33	609.29
7D	40+38.96	10.25	609.38	609.33
7E	40+48.96	10.25	609.43	609.38
7F	40+58.96	10.25	609.48	609.42
7G	40+68.96	10.25	609.53	609.47
7H	40+78.96	10.25	609.58	609.51
7J	40+88.96	10.25	609.63	609.56
7K	40+98.96	10.25	609.68	609.61
7L	41+08.96	10.25	609.73	609.66
7M	41+18.96	10.25	609.78	609.72
7N	41+28.96	10.25	609.84	609.78
7P	41+38.96	10.25	609.89	609.85
CL. BRG. PIER 7	41+50.63	10.25	609.94	609.94
8A	41+60.63	10.25	609.99	610.04
8B	41+70.63	10.25	610.05	610.14
8C	41+80.63	10.25	610.10	610.25
8D	41+90.63	10.25	610.15	610.36
8E	42+00.63	10.25	610.20	610.48
8F	42+10.63	10.25	610.25	610.59
8G	42+20.63	10.25	610.30	610.69
8H	42+30.63	10.25	610.35	610.79
8J	42+40.63	10.25	610.40	610.87
8K	42+50.63	10.25	610.45	610.94
8L	42+60.63	10.25	610.50	611.00
8M	42+70.63	10.25	610.55	611.04
8N	42+80.63	10.25	610.60	611.06
8P	42+90.63	10.25	610.65	611.07
8Q	43+00.63	10.25	610.70	611.07
8R	43+10.63	10.25	610.75	611.05
8S	43+20.63	10.25	610.80	611.03
8T	43+30.63	10.25	610.85	610.99
CL. BRG. PIER 8	43+45.46	10.25	610.93	610.93
CL. JT. & PIER 8	43+46.96	10.25	610.94	610.94

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E-S 7-1-10

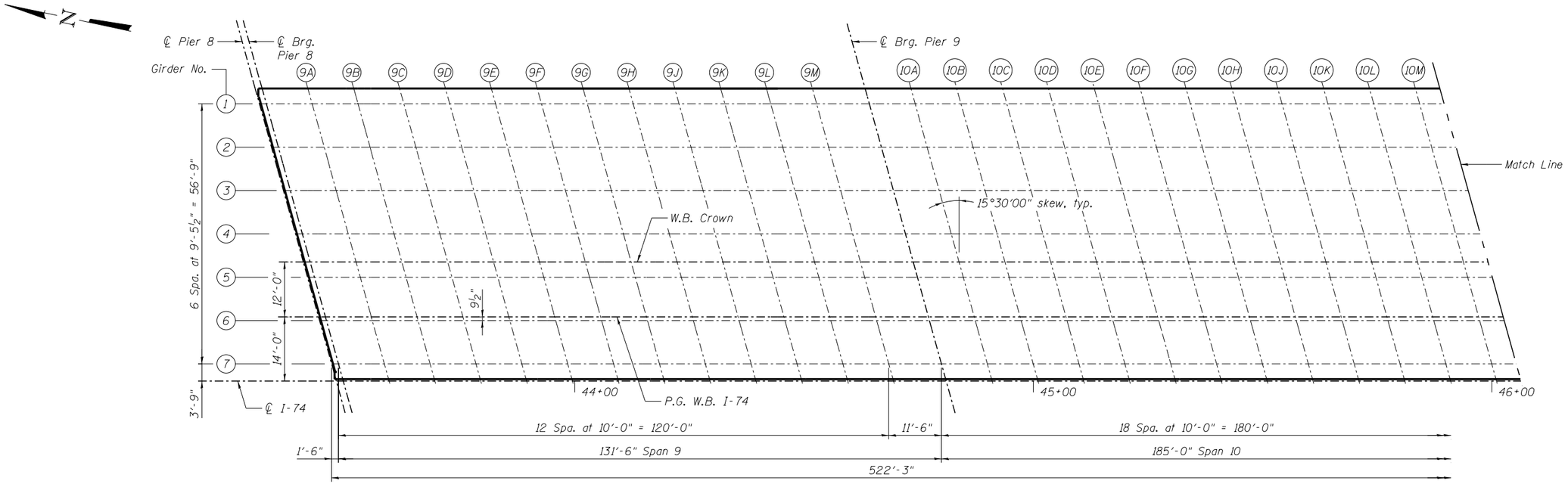
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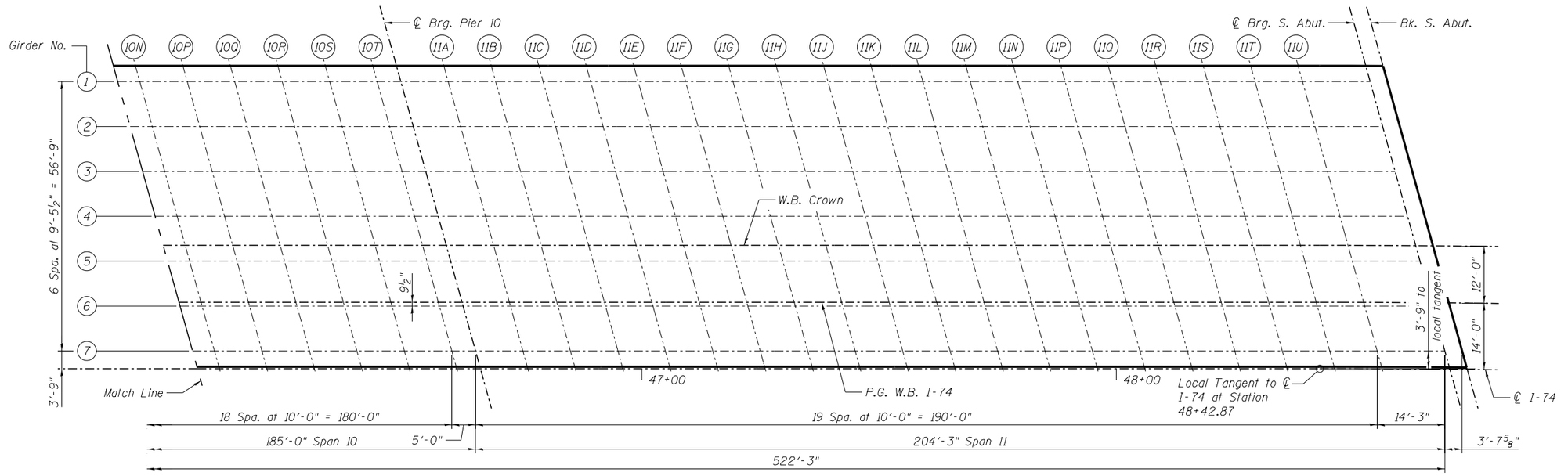
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 3 (3 of 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S22 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	791
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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PLAN

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312-565-0450 Job No. 10061

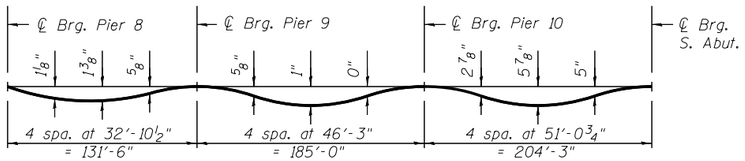
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATION PLAN UNIT 4
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S23 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	792
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

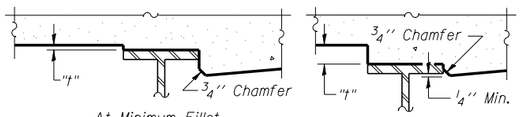
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DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S24 thru S26.



At Minimum Fillet

At Maximum Fillet

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+31.22	-46.50	610.61	610.61
CL. BRG. PIER 8	43+32.72	-46.50	610.62	610.62
9A	43+42.72	-46.50	610.67	610.70
9B	43+52.72	-46.50	610.72	610.78
9C	43+62.72	-46.50	610.77	610.85
9D	43+72.72	-46.50	610.82	610.92
9E	43+82.72	-46.50	610.87	610.98
9F	43+92.72	-46.50	610.92	611.03
9G	44+02.72	-46.50	610.97	611.07
9H	44+12.72	-46.50	611.02	611.11
9J	44+22.72	-46.50	611.07	611.14
9K	44+32.72	-46.50	611.12	611.17
9L	44+42.72	-46.50	611.17	611.20
9M	44+52.72	-46.50	611.22	611.23
CL. BRG. PIER 9	44+64.22	-46.50	611.28	611.28
10A	44+74.22	-46.50	611.33	611.33
10B	44+84.22	-46.50	611.38	611.39
10C	44+94.22	-46.50	611.43	611.45
10D	45+04.22	-46.50	611.48	611.52
10E	45+14.22	-46.50	611.53	611.59
10F	45+24.22	-46.50	611.59	611.66
10G	45+34.22	-46.50	611.65	611.72
10H	45+44.22	-46.50	611.71	611.79
10J	45+54.22	-46.50	611.78	611.85
10K	45+64.22	-46.50	611.84	611.91
10L	45+74.22	-46.50	611.92	611.97
10M	45+84.22	-46.50	611.99	612.02
10N	45+94.22	-46.50	612.07	612.08
10P	46+04.22	-46.50	612.15	612.14
10Q	46+14.22	-46.50	612.29	612.27
10R	46+24.22	-46.50	612.43	612.41
10S	46+34.22	-46.50	612.57	612.55
10T	46+44.22	-46.50	612.72	612.71
CL. BRG. PIER 10	46+49.22	-46.50	612.80	612.80
11A	46+59.22	-46.50	612.95	612.98
11B	46+69.22	-46.50	613.10	613.17
11C	46+79.22	-46.50	613.26	613.37
11D	46+89.22	-46.50	613.42	613.59
11E	46+99.22	-46.50	613.59	613.82
11F	47+09.22	-46.50	613.75	614.05
11G	47+19.22	-46.50	613.92	614.27
11H	47+29.22	-46.50	614.09	614.50
11J	47+39.22	-46.50	614.27	614.71
11K	47+49.22	-46.50	614.45	614.92
11L	47+59.22	-46.50	614.63	615.12
11M	47+69.22	-46.50	614.81	615.31
11N	47+79.22	-46.50	615.00	615.48
11P	47+89.22	-46.50	615.19	615.65
11Q	47+99.22	-46.50	615.38	615.80
11R	48+09.22	-46.50	615.58	615.94
11S	48+19.22	-46.50	615.78	616.07
11T	48+29.22	-46.50	615.98	616.20
11U	48+39.22	-46.50	616.19	616.32
CL. BRG. S. Abut.	48+53.26	-46.52	616.48	616.48
BK. S. Abut.	48+56.82	-46.53	616.55	616.55

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+33.85	-37.04	610.81	610.81
CL. BRG. PIER 8	43+35.35	-37.04	610.82	610.82
9A	43+45.35	-37.04	610.87	610.90
9B	43+55.35	-37.04	610.92	610.98
9C	43+65.35	-37.04	610.97	611.06
9D	43+75.35	-37.04	611.02	611.13
9E	43+85.35	-37.04	611.07	611.19
9F	43+95.35	-37.04	611.12	611.24
9G	44+05.35	-37.04	611.17	611.28
9H	44+15.35	-37.04	611.22	611.31
9J	44+25.35	-37.04	611.27	611.34
9K	44+35.35	-37.04	611.32	611.37
9L	44+45.35	-37.04	611.37	611.40
9M	44+55.35	-37.04	611.42	611.44
CL. BRG. PIER 9	44+66.85	-37.04	611.48	611.48
10A	44+76.85	-37.04	611.53	611.53
10B	44+86.85	-37.04	611.58	611.59
10C	44+96.85	-37.04	611.63	611.65
10D	45+06.85	-37.04	611.68	611.72
10E	45+16.85	-37.04	611.74	611.79
10F	45+26.85	-37.04	611.80	611.86
10G	45+36.85	-37.04	611.86	611.93
10H	45+46.85	-37.04	611.92	612.00
10J	45+56.85	-37.04	611.98	612.06
10K	45+66.85	-37.04	612.05	612.12
10L	45+76.85	-37.04	612.12	612.18
10M	45+86.85	-37.04	612.20	612.23
10N	45+96.85	-37.04	612.28	612.29
10P	46+06.85	-37.04	612.37	612.37
10Q	46+16.85	-37.04	612.51	612.50
10R	46+26.85	-37.04	612.65	612.63
10S	46+36.85	-37.04	612.80	612.78
10T	46+46.85	-37.04	612.95	612.94
CL. BRG. PIER 10	46+51.85	-37.04	613.02	613.02
11A	46+61.85	-37.04	613.18	613.21
11B	46+71.85	-37.04	613.33	613.40
11C	46+81.85	-37.04	613.49	613.61
11D	46+91.85	-37.04	613.65	613.83
11E	47+01.85	-37.04	613.82	614.06
11F	47+11.85	-37.04	613.99	614.29
11G	47+21.85	-37.04	614.16	614.52
11H	47+31.85	-37.04	614.33	614.74
11J	47+41.85	-37.04	614.51	614.96
11K	47+51.85	-37.04	614.68	615.17
11L	47+61.85	-37.04	614.87	615.37
11M	47+71.85	-37.04	615.05	615.56
11N	47+81.85	-37.04	615.24	615.74
11P	47+91.85	-37.04	615.43	615.90
11Q	48+01.85	-37.04	615.63	616.05
11R	48+11.85	-37.04	615.82	616.19
11S	48+21.85	-37.04	616.02	616.32
11T	48+31.85	-37.04	616.23	616.45
11U	48+41.85	-37.04	616.43	616.56
CL. BRG. S. Abut.	48+55.88	-37.07	616.72	616.72
BK. S. Abut.	48+59.45	-37.09	616.80	616.80

NOTE:

1. Offset measured from P.G. WB I-74.

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312-565-0450 Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-024-Top of Slab Elevations Unit 4 (1 of 3).dgn	USER NAME = ksnider	DESIGNED - DTS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 4 (1 OF 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S24 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	793
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+36.47	-27.58	611.01	611.01
CL. BRG. PIER 8	43+37.97	-27.58	611.02	611.02
9A	43+47.97	-27.58	611.07	611.10
9B	43+57.97	-27.58	611.12	611.19
9C	43+67.97	-27.58	611.17	611.26
9D	43+77.97	-27.58	611.22	611.33
9E	43+87.97	-27.58	611.27	611.39
9F	43+97.97	-27.58	611.32	611.44
9G	44+07.97	-27.58	611.37	611.48
9H	44+17.97	-27.58	611.42	611.52
9J	44+27.97	-27.58	611.47	611.55
9K	44+37.97	-27.58	611.53	611.58
9L	44+47.97	-27.58	611.58	611.61
9M	44+57.97	-27.58	611.63	611.64
CL. BRG. PIER 9	44+69.47	-27.58	611.68	611.68
10A	44+79.47	-27.58	611.73	611.73
10B	44+89.47	-27.58	611.79	611.79
10C	44+99.47	-27.58	611.84	611.86
10D	45+09.47	-27.58	611.89	611.92
10E	45+19.47	-27.58	611.94	612.00
10F	45+29.47	-27.58	612.00	612.07
10G	45+39.47	-27.58	612.06	612.14
10H	45+49.47	-27.58	612.12	612.21
10J	45+59.47	-27.58	612.19	612.27
10K	45+69.47	-27.58	612.26	612.33
10L	45+79.47	-27.58	612.33	612.39
10M	45+89.47	-27.58	612.41	612.44
10N	45+99.47	-27.58	612.49	612.50
10P	46+09.47	-27.58	612.59	612.58
10Q	46+19.47	-27.58	612.71	612.69
10R	46+29.47	-27.58	612.83	612.81
10S	46+39.47	-27.58	612.96	612.94
10T	46+49.47	-27.58	613.09	613.08
CL. BRG. PIER 10	46+54.47	-27.58	613.15	613.15
11A	46+64.47	-27.58	613.29	613.32
11B	46+74.47	-27.58	613.42	613.49
11C	46+84.47	-27.58	613.56	613.68
11D	46+94.47	-27.58	613.71	613.88
11E	47+04.47	-27.58	613.85	614.09
11F	47+14.47	-27.58	614.00	614.30
11G	47+24.47	-27.58	614.15	614.51
11H	47+34.47	-27.58	614.31	614.72
11J	47+44.47	-27.58	614.46	614.92
11K	47+54.47	-27.58	614.62	615.11
11L	47+64.47	-27.58	614.79	615.29
11M	47+74.47	-27.58	614.95	615.46
11N	47+84.47	-27.58	615.13	615.62
11P	47+94.47	-27.58	615.31	615.78
11Q	48+04.47	-27.58	615.49	615.91
11R	48+14.47	-27.58	615.67	616.04
11S	48+24.47	-27.58	615.86	616.16
11T	48+34.47	-27.58	616.05	616.27
11U	48+44.45	-27.58	616.24	616.38
CL. BRG. S. Abut.	48+58.50	-27.62	616.52	616.52
BK. S. Abut.	48+62.09	-27.65	616.59	616.59

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+39.09	-18.13	611.21	611.21
CL. BRG. PIER 8	43+40.59	-18.13	611.22	611.22
9A	43+50.59	-18.13	611.27	611.31
9B	43+60.59	-18.13	611.32	611.39
9C	43+70.59	-18.13	611.37	611.46
9D	43+80.59	-18.13	611.42	611.53
9E	43+90.59	-18.13	611.47	611.59
9F	44+00.59	-18.13	611.53	611.64
9G	44+10.59	-18.13	611.58	611.68
9H	44+20.59	-18.13	611.63	611.72
9J	44+30.59	-18.13	611.68	611.75
9K	44+40.59	-18.13	611.73	611.78
9L	44+50.59	-18.13	611.78	611.81
9M	44+60.59	-18.13	611.83	611.84
CL. BRG. PIER 9	44+72.09	-18.13	611.89	611.89
10A	44+82.09	-18.13	611.94	611.94
10B	44+92.09	-18.13	611.99	611.99
10C	45+02.09	-18.13	612.04	612.06
10D	45+12.09	-18.13	612.09	612.13
10E	45+22.09	-18.13	612.15	612.20
10F	45+32.09	-18.13	612.20	612.27
10G	45+42.09	-18.13	612.27	612.34
10H	45+52.09	-18.13	612.33	612.41
10J	45+62.09	-18.13	612.40	612.48
10K	45+72.09	-18.13	612.47	612.54
10L	45+82.09	-18.13	612.54	612.60
10M	45+92.09	-18.13	612.62	612.65
10N	46+02.09	-18.13	612.70	612.71
10P	46+12.09	-18.13	612.79	612.79
10Q	46+22.09	-18.13	612.89	612.87
10R	46+32.09	-18.13	612.99	612.97
10S	46+42.09	-18.13	613.10	613.08
10T	46+52.09	-18.13	613.20	613.20
CL. BRG. PIER 10	46+57.09	-18.13	613.26	613.26
11A	46+67.09	-18.13	613.37	613.40
11B	46+77.09	-18.13	613.49	613.55
11C	46+87.09	-18.13	613.60	613.72
11D	46+97.09	-18.13	613.73	613.90
11E	47+07.09	-18.13	613.85	614.09
11F	47+17.09	-18.13	613.98	614.28
11G	47+27.09	-18.13	614.11	614.47
11H	47+37.09	-18.13	614.24	614.65
11J	47+47.09	-18.13	614.37	614.83
11K	47+57.09	-18.13	614.51	615.00
11L	47+67.09	-18.13	614.65	615.16
11M	47+77.09	-18.13	614.80	615.31
11N	47+87.09	-18.13	614.97	615.46
11P	47+97.09	-18.13	615.13	615.60
11Q	48+07.09	-18.13	615.30	615.72
11R	48+17.09	-18.13	615.47	615.84
11S	48+27.09	-18.13	615.64	615.94
11T	48+37.09	-18.13	615.82	616.04
11U	48+47.05	-18.13	616.00	616.13
CL. BRG. S. Abut.	48+61.15	-18.18	616.26	616.26
BK. S. Abut.	48+64.74	-18.21	616.32	616.32

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+41.72	-8.67	611.28	611.28
CL. BRG. PIER 8	43+43.22	-8.67	611.29	611.29
9A	43+53.22	-8.67	611.34	611.38
9B	43+63.22	-8.67	611.39	611.46
9C	43+73.22	-8.67	611.44	611.53
9D	43+83.22	-8.67	611.49	611.60
9E	43+93.22	-8.67	611.54	611.66
9F	44+03.22	-8.67	611.59	611.71
9G	44+13.22	-8.67	611.65	611.75
9H	44+23.22	-8.67	611.70	611.79
9J	44+33.22	-8.67	611.75	611.82
9K	44+43.22	-8.67	611.80	611.85
9L	44+53.22	-8.67	611.85	611.88
9M	44+63.22	-8.67	611.90	611.91
CL. BRG. PIER 9	44+74.72	-8.67	611.96	611.96
10A	44+84.72	-8.67	612.01	612.01
10B	44+94.72	-8.67	612.06	612.06
10C	45+04.72	-8.67	612.11	612.13
10D	45+14.72	-8.67	612.16	612.20
10E	45+24.72	-8.67	612.22	612.27
10F	45+34.72	-8.67	612.28	612.34
10G	45+44.72	-8.67	612.34	612.42
10H	45+54.72	-8.67	612.40	612.49
10J	45+64.72	-8.67	612.47	612.55
10K	45+74.72	-8.67	612.54	612.61
10L	45+84.72	-8.67	612.62	612.67
10M	45+94.72	-8.67	612.69	612.73
10N	46+04.72	-8.67	612.77	612.79
10P	46+14.72	-8.67	612.86	612.85
10Q	46+24.72	-8.67	612.94	612.92
10R	46+34.72	-8.67	613.03	613.01
10S	46+44.72	-8.67	613.12	613.10
10T	46+54.72	-8.67	613.21	613.21
CL. BRG. PIER 10	46+59.72	-8.67	613.26	613.26
11A	46+69.72	-8.67	613.36	613.39
11B	46+79.72	-8.67	613.46	613.53
11C	46+89.72	-8.67	613.57	613.69
11D	46+99.72	-8.67	613.68	613.85
11E	47+09.72	-8.67	613.79	614.02
11F	47+19.72	-8.67	613.90	614.20
11G	47+29.72	-8.67	614.02	614.38
11H	47+39.72	-8.67	614.13	614.55
11J	47+49.72	-8.67	614.26	614.71
11K	47+59.72	-8.67	614.38	614.87
11L	47+69.72	-8.67	614.51	615.01
11M	47+79.72	-8.67	614.65	615.16
11N	47+89.72	-8.67	614.80	615.29
11P	47+99.72	-8.67	614.95	615.41
11Q	48+09.72	-8.67	615.10	615.53
11R	48+19.72	-8.67	615.26	615.63
11S	48+29.72	-8.67	615.41	615.72
11T	48+39.72	-8.67	615.58	615.80
11U	48+49.67	-8.67	615.74	615.88
CL. BRG. S. Abut.	48+63.81	-8.74	615.98	615.98
BK. S. Abut.	48+67.41	-8.77	616.04	616.04

NOTE:

1. Offset measured from P.G. WB I-74.

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

E-S 7-1-10

FILENAME = 081-0177-C00AB-025-Top of Slab Elevations Unit 4 (2 of 3).dgn	USER NAME = ksnider	DESIGNED - DTS	REVISED -
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	PLOT DATE = 1/18/2017	CHECKED - AAY/AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 4 (2 OF 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S25 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	794
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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P.G. W.B. I-74

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+44.12	0.00	611.12	611.12
CL. BRG. PIER 8	43+45.62	0.00	611.13	611.13
9A	43+55.62	0.00	611.18	611.22
9B	43+65.62	0.00	611.23	611.30
9C	43+75.62	0.00	611.28	611.37
9D	43+85.62	0.00	611.33	611.44
9E	43+95.62	0.00	611.38	611.50
9F	44+05.62	0.00	611.43	611.55
9G	44+15.62	0.00	611.48	611.59
9H	44+25.62	0.00	611.53	611.63
9J	44+35.62	0.00	611.58	611.66
9K	44+45.62	0.00	611.64	611.69
9L	44+55.62	0.00	611.69	611.72
9M	44+65.62	0.00	611.74	611.75
CL. BRG. PIER 9	44+77.12	0.00	611.79	611.79
10A	44+87.12	0.00	611.84	611.84
10B	44+97.12	0.00	611.90	611.90
10C	45+07.12	0.00	611.95	611.97
10D	45+17.12	0.00	612.00	612.04
10E	45+27.12	0.00	612.06	612.11
10F	45+37.12	0.00	612.12	612.19
10G	45+47.12	0.00	612.18	612.26
10H	45+57.12	0.00	612.25	612.33
10J	45+67.12	0.00	612.31	612.40
10K	45+77.12	0.00	612.39	612.46
10L	45+87.12	0.00	612.46	612.52
10M	45+97.12	0.00	612.54	612.57
10N	46+07.12	0.00	612.62	612.63
10P	46+17.12	0.00	612.70	612.70
10Q	46+27.12	0.00	612.79	612.77
10R	46+37.12	0.00	612.88	612.86
10S	46+47.12	0.00	612.97	612.95
10T	46+57.12	0.00	613.06	613.06
CL. BRG. PIER 10	46+62.12	0.00	613.11	613.11
11A	46+72.12	0.00	613.21	613.24
11B	46+82.12	0.00	613.31	613.38
11C	46+92.12	0.00	613.42	613.54
11D	47+02.12	0.00	613.53	613.71
11E	47+12.12	0.00	613.64	613.88
11F	47+22.12	0.00	613.75	614.06
11G	47+32.12	0.00	613.87	614.23
11H	47+42.12	0.00	613.99	614.40
11J	47+52.12	0.00	614.11	614.57
11K	47+62.12	0.00	614.24	614.73
11L	47+72.12	0.00	614.37	614.87
11M	47+82.12	0.00	614.50	615.01
11N	47+92.12	0.00	614.63	615.13
11P	48+02.12	0.00	614.77	615.24
11Q	48+12.12	0.00	614.91	615.34
11R	48+22.12	0.00	615.05	615.42
11S	48+32.12	0.00	615.20	615.50
11T	48+42.12	0.00	615.35	615.57
11U	48+52.12	0.00	615.50	615.64
CL. BRG. S. Abut.	48+66.29	0.00	615.72	615.72
BK. S. Abut.	48+69.91	0.00	615.78	615.78

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+44.34	0.79	611.11	611.11
CL. BRG. PIER 8	43+45.84	0.79	611.12	611.12
9A	43+55.84	0.79	611.17	611.20
9B	43+65.84	0.79	611.22	611.28
9C	43+75.84	0.79	611.27	611.36
9D	43+85.84	0.79	611.32	611.43
9E	43+95.84	0.79	611.37	611.48
9F	44+05.84	0.79	611.42	611.53
9G	44+15.84	0.79	611.47	611.58
9H	44+25.84	0.79	611.52	611.61
9J	44+35.84	0.79	611.57	611.64
9K	44+45.84	0.79	611.62	611.67
9L	44+55.84	0.79	611.67	611.70
9M	44+65.84	0.79	611.72	611.73
CL. BRG. PIER 9	44+77.34	0.79	611.78	611.78
10A	44+87.34	0.79	611.83	611.83
10B	44+97.34	0.79	611.88	611.89
10C	45+07.34	0.79	611.93	611.95
10D	45+17.34	0.79	611.99	612.02
10E	45+27.34	0.79	612.04	612.10
10F	45+37.34	0.79	612.10	612.17
10G	45+47.34	0.79	612.17	612.24
10H	45+57.34	0.79	612.23	612.31
10J	45+67.34	0.79	612.30	612.38
10K	45+77.34	0.79	612.37	612.44
10L	45+87.34	0.79	612.45	612.50
10M	45+97.34	0.79	612.52	612.56
10N	46+07.34	0.79	612.60	612.62
10P	46+17.34	0.79	612.69	612.69
10Q	46+27.34	0.79	612.77	612.76
10R	46+37.34	0.79	612.86	612.84
10S	46+47.34	0.79	612.96	612.94
10T	46+57.34	0.79	613.05	613.04
CL. BRG. PIER 10	46+62.34	0.79	613.10	613.10
11A	46+72.34	0.79	613.20	613.23
11B	46+82.34	0.79	613.30	613.37
11C	46+92.34	0.79	613.41	613.52
11D	47+02.34	0.79	613.51	613.69
11E	47+12.34	0.79	613.63	613.86
11F	47+22.34	0.79	613.74	614.04
11G	47+32.34	0.79	613.86	614.22
11H	47+42.34	0.79	613.98	614.39
11J	47+52.34	0.79	614.10	614.56
11K	47+62.34	0.79	614.23	614.71
11L	47+72.34	0.79	614.35	614.86
11M	47+82.34	0.79	614.48	614.99
11N	47+92.34	0.79	614.62	615.11
11P	48+02.34	0.79	614.75	615.22
11Q	48+12.34	0.79	614.89	615.32
11R	48+22.34	0.79	615.04	615.41
11S	48+32.34	0.79	615.18	615.48
11T	48+42.34	0.79	615.33	615.55
11U	48+52.30	0.78	615.48	615.61
CL. BRG. S. Abut.	48+66.49	0.70	615.70	615.70
BK. S. Abut.	48+70.10	0.67	615.76	615.76

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. JT. & PIER 8	43+46.96	10.25	610.93	610.93
CL. BRG. PIER 8	43+48.46	10.25	610.94	610.94
9A	43+58.46	10.25	610.99	611.02
9B	43+68.46	10.25	611.04	611.10
9C	43+78.46	10.25	611.09	611.18
9D	43+88.46	10.25	611.14	611.25
9E	43+98.46	10.25	611.19	611.31
9F	44+08.46	10.25	611.24	611.36
9G	44+18.46	10.25	611.29	611.40
9H	44+28.46	10.25	611.34	611.43
9J	44+38.46	10.25	611.39	611.46
9K	44+48.46	10.25	611.44	611.49
9L	44+58.46	10.25	611.50	611.52
9M	44+68.46	10.25	611.55	611.56
CL. BRG. PIER 9	44+79.96	10.25	611.60	611.60
10A	44+89.96	10.25	611.65	611.65
10B	44+99.96	10.25	611.70	611.71
10C	45+09.96	10.25	611.76	611.78
10D	45+19.96	10.25	611.81	611.85
10E	45+29.96	10.25	611.87	611.92
10F	45+39.96	10.25	611.93	612.00
10G	45+49.96	10.25	611.99	612.07
10H	45+59.96	10.25	612.06	612.14
10J	45+69.96	10.25	612.13	612.21
10K	45+79.96	10.25	612.20	612.27
10L	45+89.96	10.25	612.28	612.33
10M	45+99.96	10.25	612.36	612.39
10N	46+09.96	10.25	612.44	612.45
10P	46+19.96	10.25	612.52	612.52
10Q	46+29.96	10.25	612.61	612.59
10R	46+39.96	10.25	612.70	612.68
10S	46+49.96	10.25	612.79	612.77
10T	46+59.96	10.25	612.89	612.88
CL. BRG. PIER 10	46+64.96	10.25	612.94	612.94
11A	46+74.96	10.25	613.04	613.06
11B	46+84.96	10.25	613.14	613.21
11C	46+94.96	10.25	613.25	613.36
11D	47+04.96	10.25	613.35	613.53
11E	47+14.96	10.25	613.47	613.70
11F	47+24.96	10.25	613.58	613.87
11G	47+34.96	10.25	613.70	614.05
11H	47+44.96	10.25	613.82	614.22
11J	47+54.96	10.25	613.94	614.39
11K	47+64.96	10.25	614.07	614.54
11L	47+74.96	10.25	614.20	614.69
11M	47+84.96	10.25	614.31	614.81
11N	47+94.96	10.25	614.43	614.91
11P	48+04.96	10.25	614.55	615.01
11Q	48+14.96	10.25	614.68	615.09
11R	48+24.96	10.25	614.81	615.17
11S	48+34.96	10.25	614.94	615.23
11T	48+44.96	10.25	615.07	615.29
11U	48+54.95	10.23	615.21	615.34
CL. BRG. S. Abut.	48+69.18	10.13	615.41	615.41
BK. S. Abut.	48+72.81	10.10	615.47	615.47

NOTE:

1. Offset measured from P.G. WB I-74.

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205 North Michigan Avenue, Suite 2400
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312-565-0450 Job No. 10061

E-S 7-1-10

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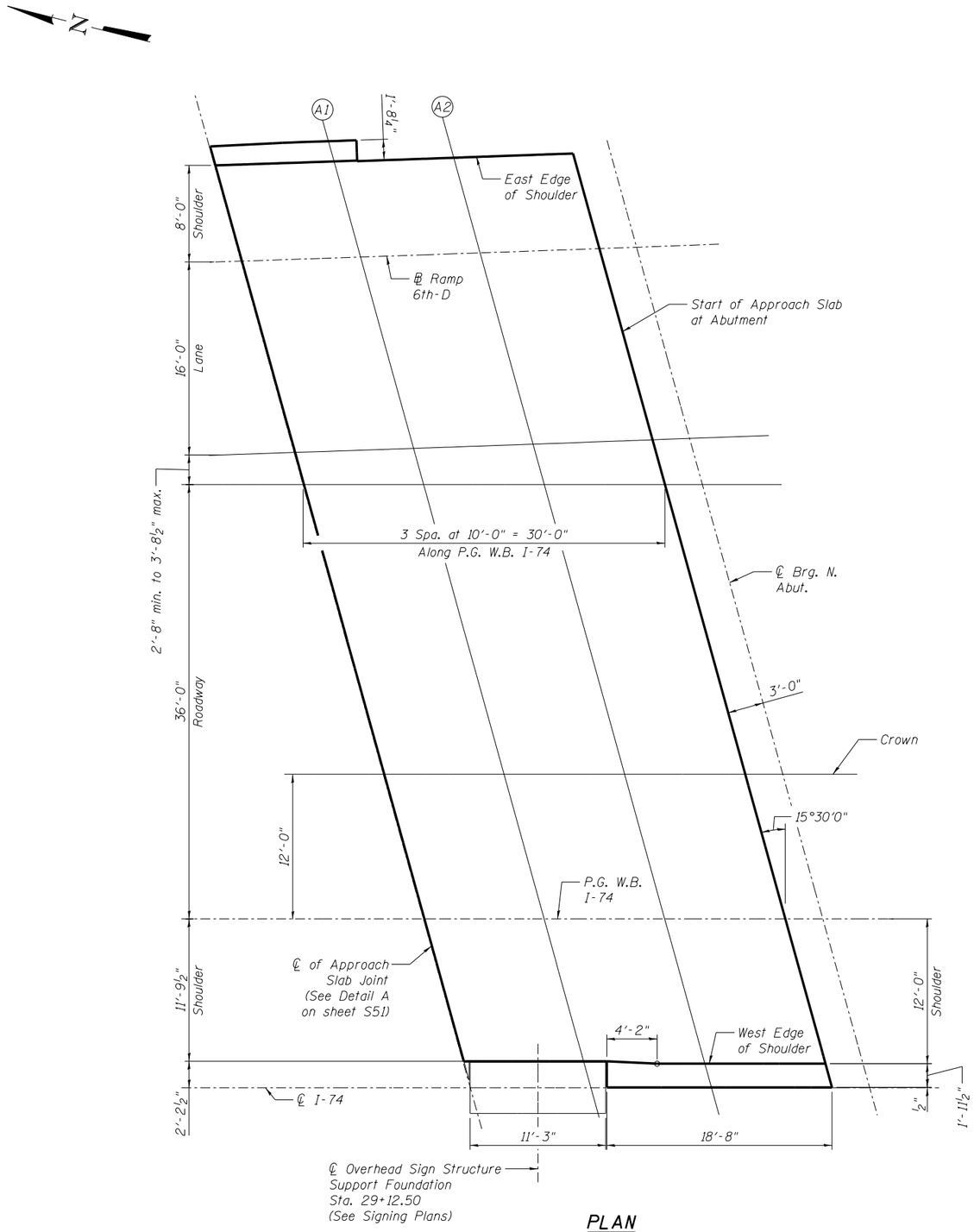
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS UNIT 4 (3 OF 3)
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S26 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	795
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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PLAN

EAST EDGE OF SHOULDER

Location	Station (Along ℄ I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
℄ of Approach Slab Joint	28+85.69	-62.45	592.81
A1	28+95.60	-62.79	593.01
A2	29+05.50	-63.13	593.21
Start of Approach Slab at Abut.	29+15.40	-63.49	593.41

℄ RAMP 6TH-D

Location	Station (Along ℄ I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
℄ of Approach Slab Joint	28+87.89	-54.52	593.01
A1	28+97.80	-54.86	593.21
A2	29+07.70	-55.20	593.41
Start of Approach Slab at Abut.	29+17.60	-55.56	593.61

CROWN

Location	Station (Along ℄ I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
℄ of Approach Slab Joint	28+99.69	-12.00	594.11
A1	29+09.69	-12.00	594.32
A2	29+19.69	-12.00	594.53
Start of Approach Slab at Abut.	29+29.69	-12.00	594.74

P.G. W.B. I-74

Location	Station (Along ℄ I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
℄ of Approach Slab Joint	29+03.01	0.00	593.94
A1	29+13.01	0.00	594.15
A2	29+23.01	0.00	594.36
Start of Approach Slab at Abut.	29+33.01	0.00	594.57

WEST EDGE OF SHOULDER

Location	Station (Along ℄ I-74)	Offset (From P.G. W.B. I-74)	Theoretical Grade Elevations
℄ of Approach Slab Joint	29+06.29	11.82	593.77
A1	29+16.28	11.79	593.98
A2	29+26.34	12.00	594.19
Start of Approach Slab at Abut.	29+36.34	12.00	594.40

NOTE:

1. Offset measured from P.G. WB I-74.

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205 North Michigan Avenue, Suite 2400
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312-565-0450 Job No. 10061

FILENAME = 081-0177-C00AB-027-Top of North Approach Slab Elevations.dgn
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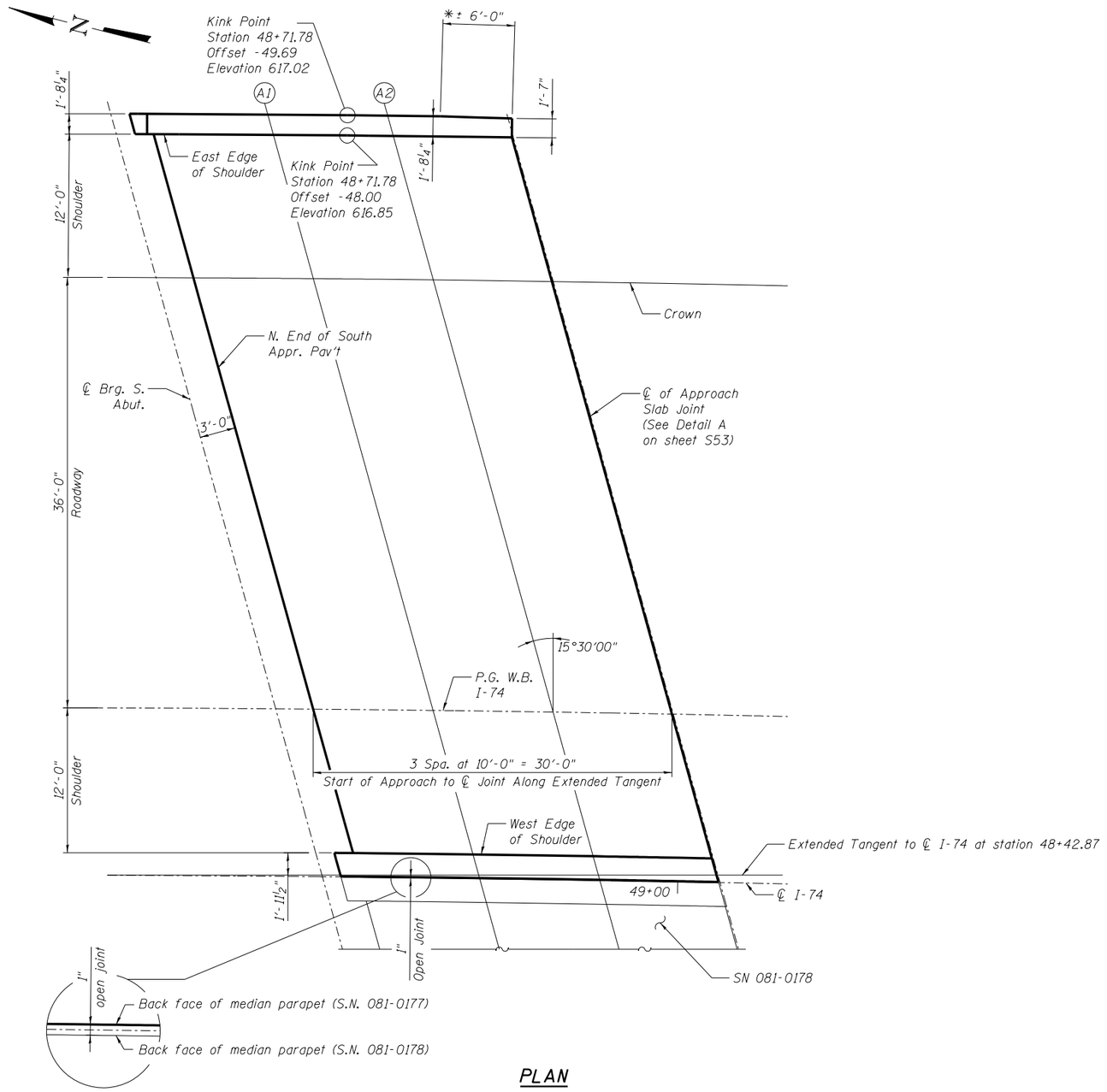
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S27 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	796
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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* See sheet S53 for end of approach slab parapet width transition.



PLAN

EAST EDGE OF SHOULDER

Location	Station (Along ℄ I-74)	Offset	Theoretical Grade Elevations
N. End of South Appr. Pav't	48+55.91	-48.00	616.51
A1	48+65.73	-47.99	616.72
A2	48+75.55	-47.99	616.93
℄ of Approach Slab Joint	48+85.38	-48.00	617.14

CROWN

Location	Station (Along ℄ I-74)	Offset	Theoretical Grade Elevations
N. End of South Appr. Pav't	48+59.24	-36.00	616.82
A1	48+69.10	-36.00	617.03
A2	48+78.96	-36.00	617.24
℄ of Approach Slab Joint	48+88.84	-36.00	617.46

P.G. W.B. I-74

Location	Station (Along ℄ I-74)	Offset	Theoretical Grade Elevations
N. End of South Appr. Pav't	48+69.39	0.00	615.77
A1	48+79.38	0.00	615.93
A2	48+89.37	0.00	616.09
℄ of Approach Slab Joint	48+99.37	0.00	616.26

WEST EDGE OF SHOULDER

Location	Station (Along ℄ I-74)	Offset	Theoretical Grade Elevations
N. End of South Appr. Pav't	48+72.84	12.00	615.40
A1	48+82.86	12.00	615.54
A2	48+92.90	12.00	615.69
℄ of Approach Slab Joint	49+02.94	12.00	615.83

NOTE:

1. Offset measured from P.G. WB I-74.

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Chicago, Illinois 60601
312-565-0450 Job No. 10061

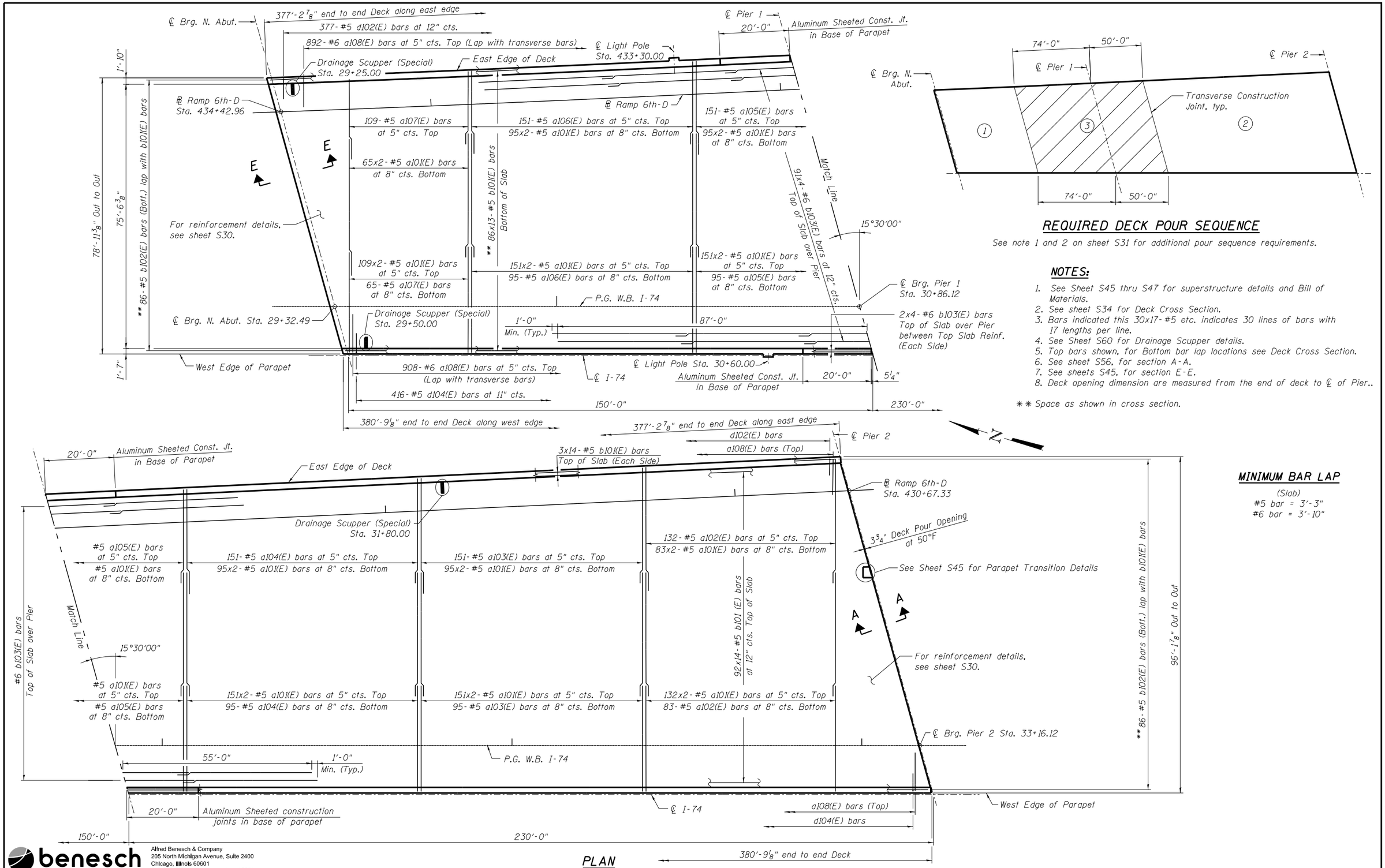
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S28 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	797
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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REQUIRED DECK POUR SEQUENCE

See note 1 and 2 on sheet S31 for additional pour sequence requirements.

NOTES:

1. See Sheet S45 thru S47 for superstructure details and Bill of Materials.
2. See sheet S34 for Deck Cross Section.
3. Bars indicated this 30x17- #5 etc. indicates 30 lines of bars with 17 lengths per line.
4. See Sheet S60 for Drainage Scupper details.
5. Top bars shown, for Bottom bar lap locations see Deck Cross Section.
6. See sheet S56, for section A-A.
7. See sheets S45, for section E-E.
8. Deck opening dimension are measured from the end of deck to ℄ of Pier..

** Space as shown in cross section.

MINIMUM BAR LAP

(Slab)
#5 bar = 3'-3"
#6 bar = 3'-10"

PLAN

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

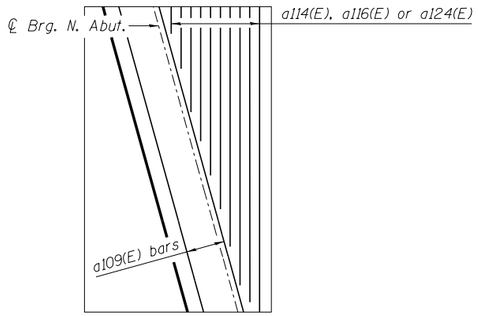
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

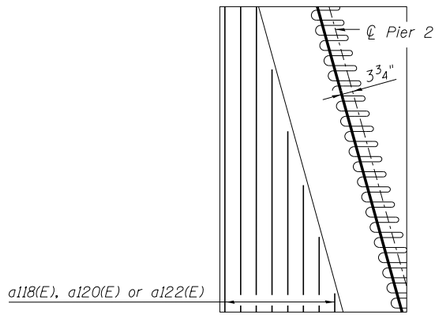
DECK REINFORCEMENT PLAN UNIT 1
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S29 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	798
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

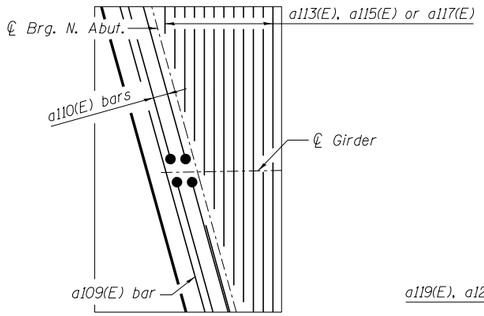
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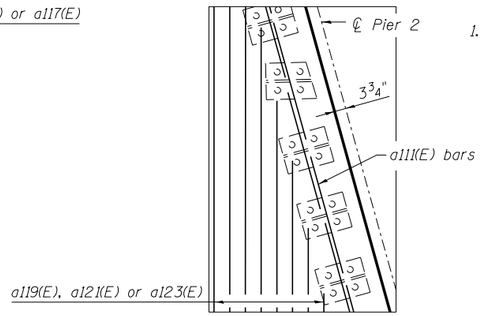
DETAIL 1



DETAIL 2



DETAIL 3



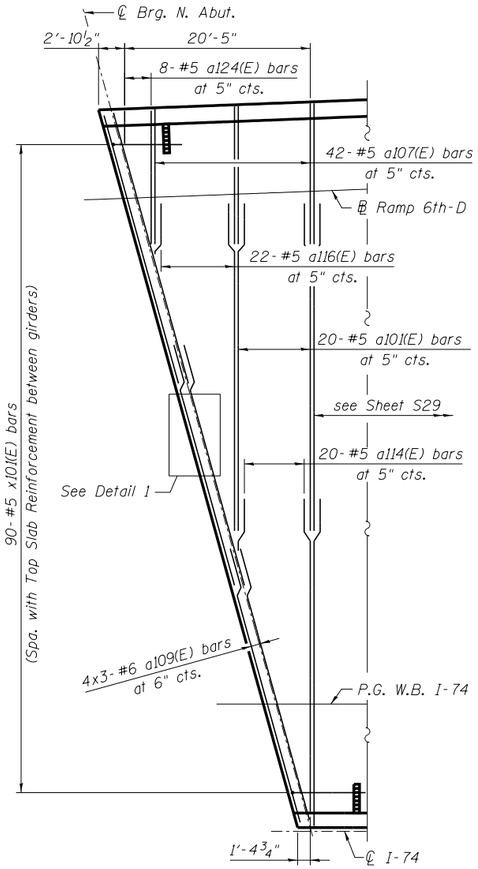
DETAIL 4

NOTE:

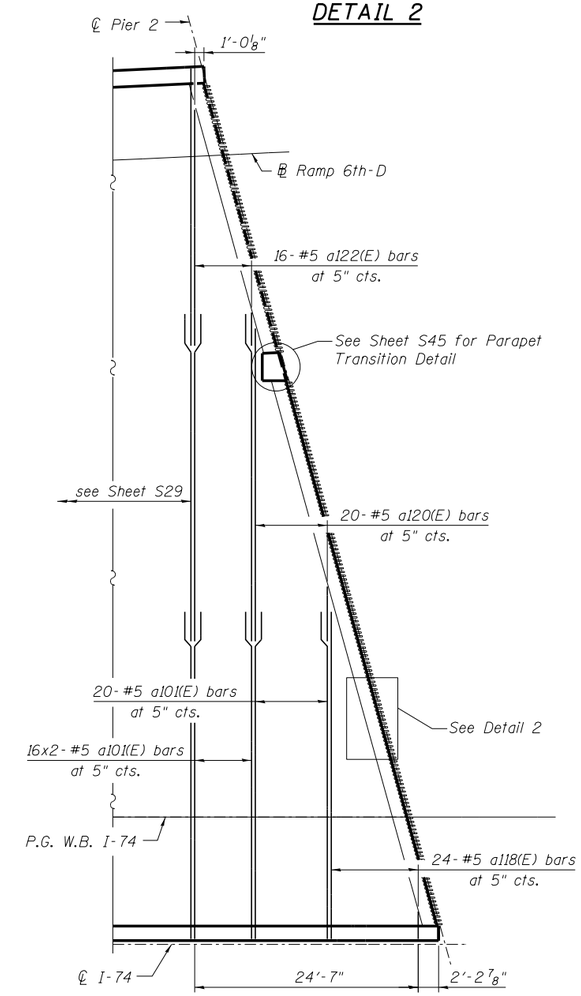
1. See Sheet S29 for Deck Reinforcement Plan.

MINIMUM BAR LAP

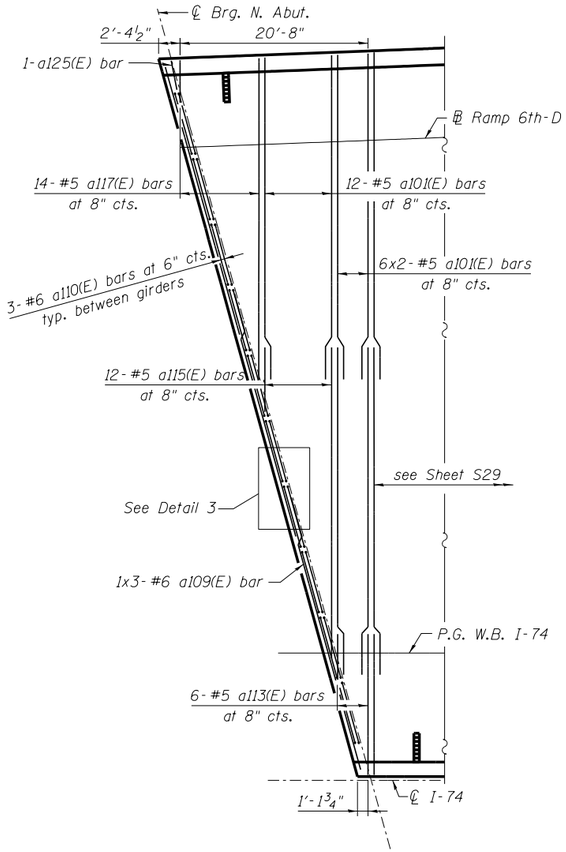
(Slab)
#5 bar = 3'-3"
#6 bar = 3'-10"



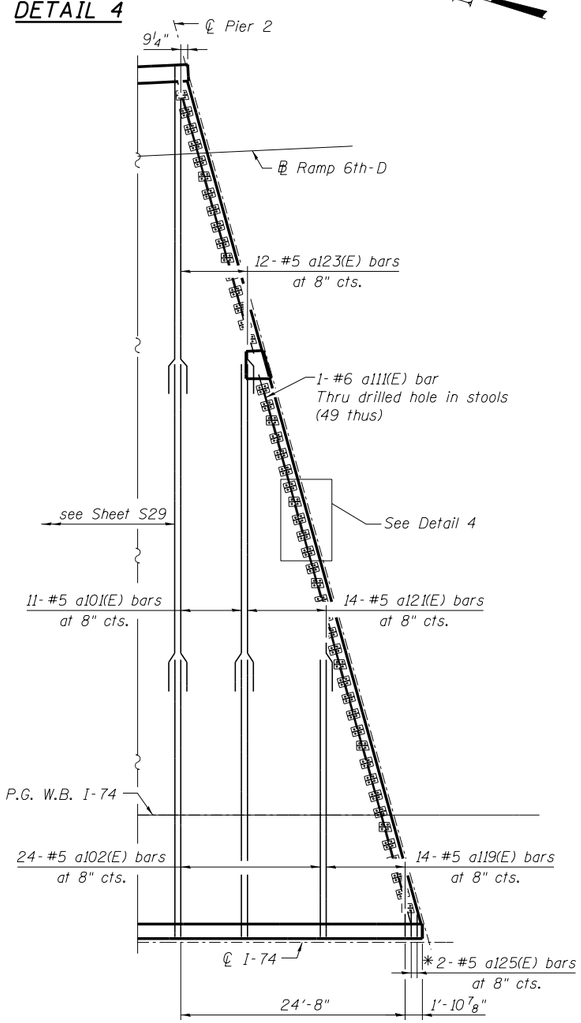
NEAR NORTH ABUTMENT



NEAR PIER 2



NEAR NORTH ABUTMENT



NEAR PIER 2

PLAN-TOP BARS

(Longitudinal bars not shown for clarity)

PLAN-BOTTOM BARS

(Longitudinal bars not shown for clarity)

* Flare bars and cut to fit skew as required.

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

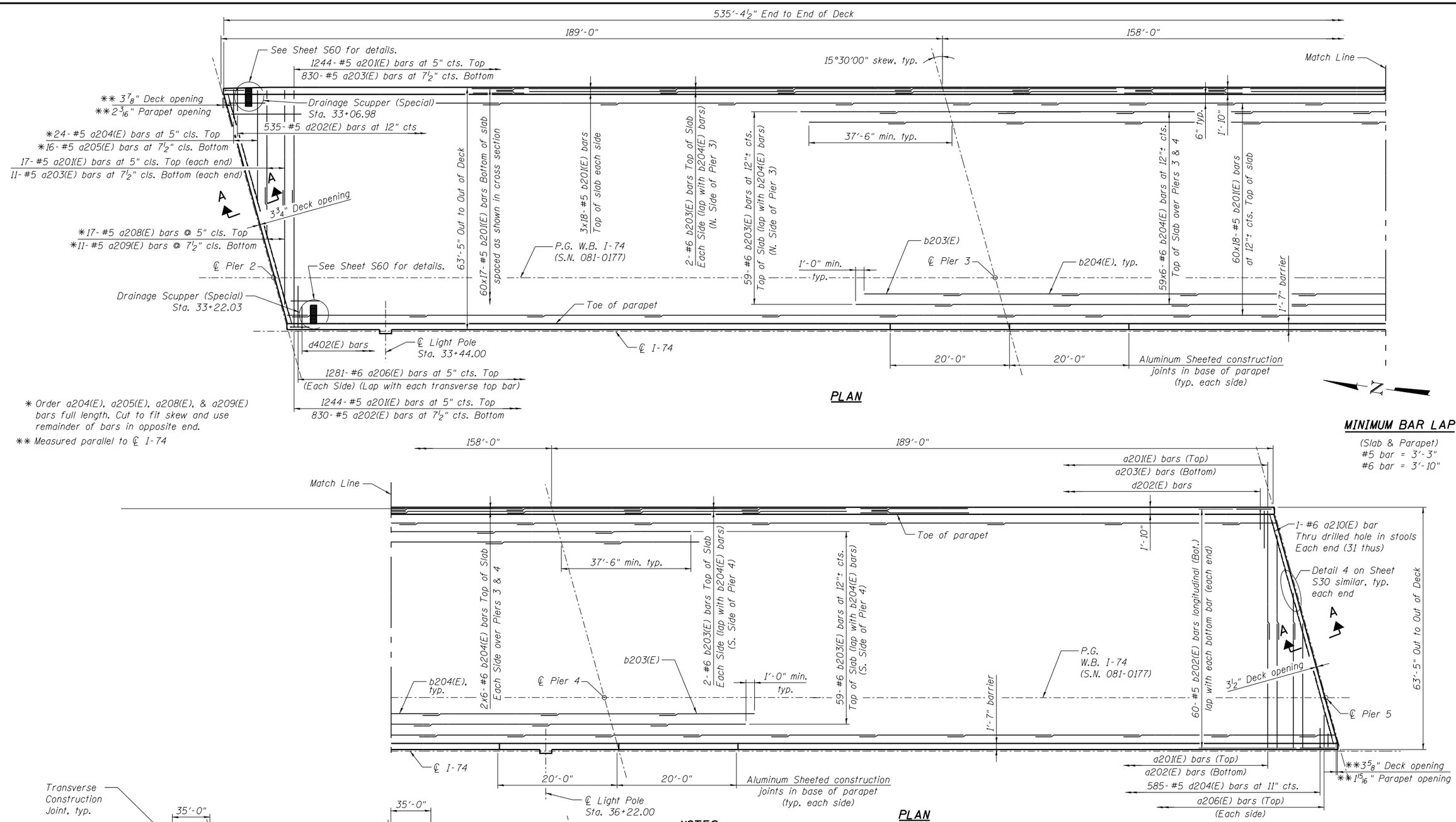
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		CHECKED - AJK	REVISED -
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	PLOT DATE = 1/18/2017	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REINFORCEMENT PLAN DETAILS UNIT 1
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S30 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	799
		CONTRACT NO. 64C08		
	ILLINOIS FED. AID PROJECT			

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PLAN

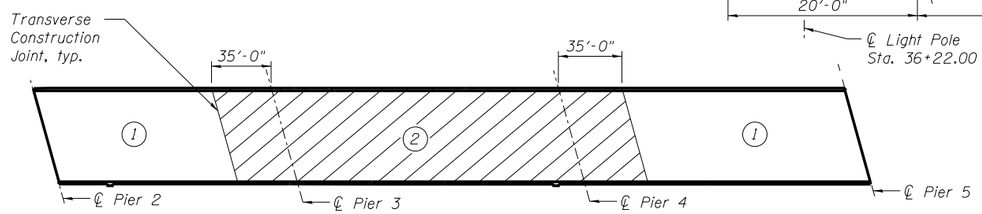
* Order a204(E), a205(E), a208(E), & a209(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

** Measured parallel to ℄ I-74

MINIMUM BAR LAP

(Slab & Parapet)
#5 bar = 3'-3"
#6 bar = 3'-10"

PLAN



REQUIRED DECK POUR SEQUENCE

NOTES:

1. When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
   A) At least 72 hours shall have elapsed from the end of the previous pour.
   B) The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
2. The contractor is alerted that camber and dead load deflections were developed based on the deck pouring sequence shown. Any deviation from this pouring sequence could result in changes to camber and deck elevations. These changes shall be submitted to the engineer for approval.
3. See Sheets S45 thru S47 for superstructure details and Bill of Materials.
4. See sheet S35 for Deck Cross Section.
5. Bars indicated thus: 66x17-#5 etc. indicates 66 lines of bars with 17 lengths per line.
6. See Sheet S56 for Section A-A.
7. See Sheets S39 & S40 for parapet reinforcement.
8. Deck opening dimensions are measured from end of deck to ℄ pier at 50°F.

benesch
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILENAME = 081-0177-C00AB-031-Deck Reinforcement Plan Unit 2.dgn	USER NAME = ksnider	DESIGNED - JDS/DTS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REINFORCEMENT PLAN UNIT 2
STRUCTURE NO. 081-0177 (WESTBOUND)
SHEET NO. S31 OF S120 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-1(HVBR)	ROCK ISLAND	1504	800
		CONTRACT NO. 64C08		
		ILLINOIS FED. AID PROJECT		

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