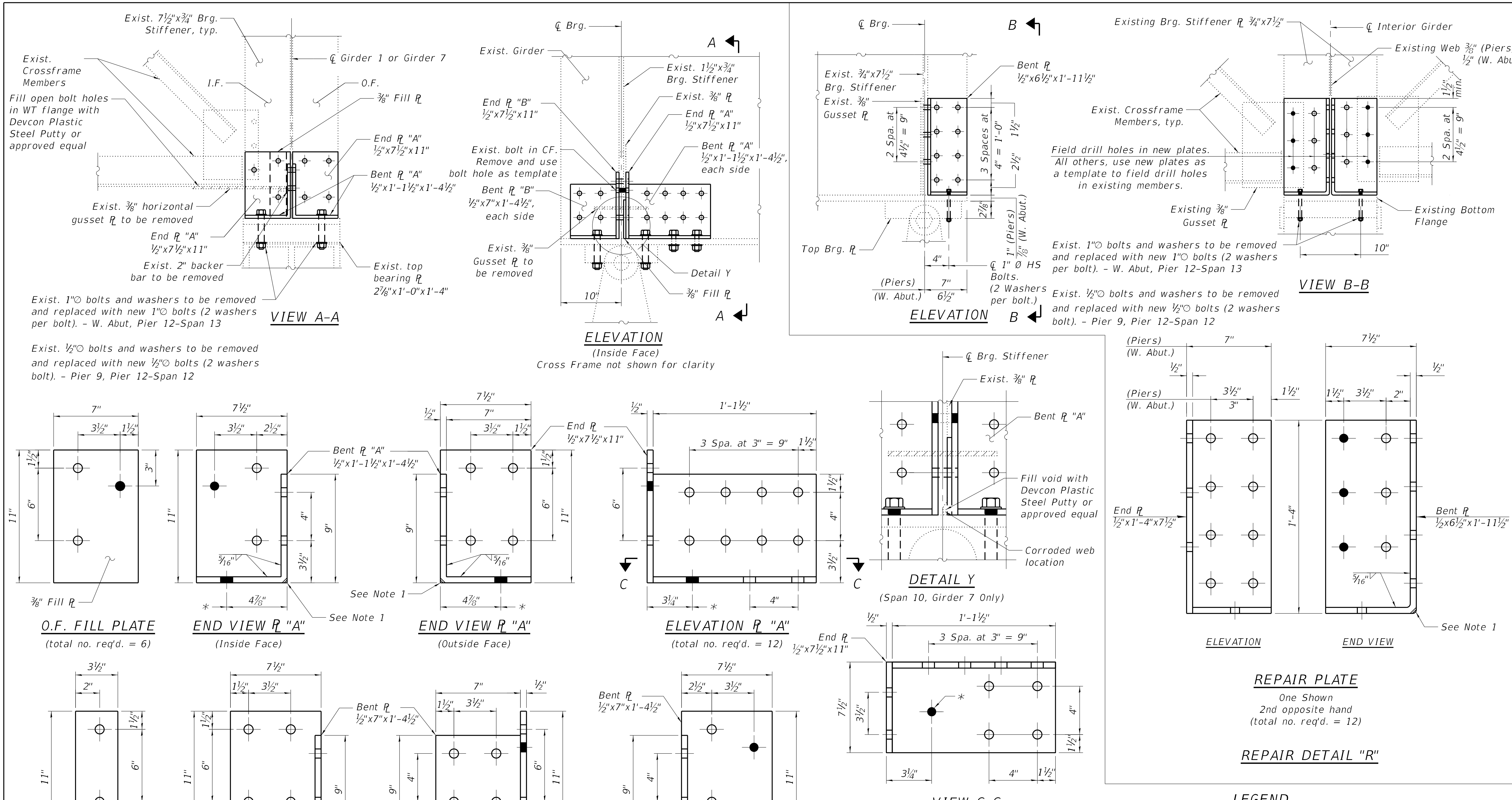


NOTES:

1. Grind edge of plate as required to accommodate the existing flange to web weld and provide adequate contact between girder end and repair assembly and existing girder surface. Cost included in Structural Steel Repair.
2. Except as noted, all holes are for ¾" dia. bolts. Holes shown as solid are to match existing bolt location. Holes in new plates shall be field drilled using existing holes as a template. Cost of field drilling included in Structural Steel Repair.

* Exist. 1⅛"⌀ hole for new 1"⌀ H.S. Bolts
Exist. 1⅜"⌀ hole for new 1½"⌀ H.S. Bolts

LEGEND

Removal

● Hole location to be determined by exist. bolt/hole location.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,860

MODEL: Default
FILE NAME: 0780001-66F08-069-STLREP2.dgn
12/5/2019 3:07:12 PM

BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 12/5/2019	CHECKED - ECK	REVISED -	

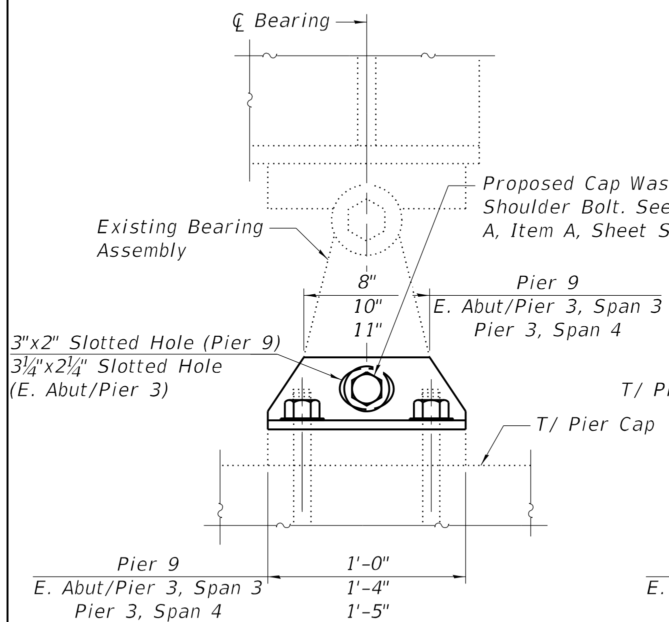
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL REPAIR DETAILS 2
STRUCTURE NO. 078-0001

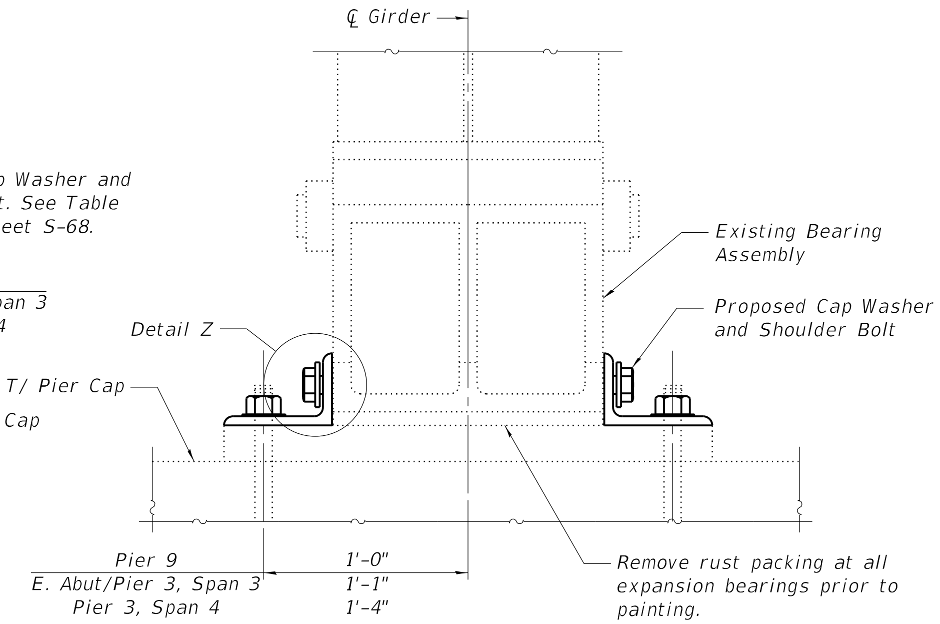
SHEET S-69 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	101

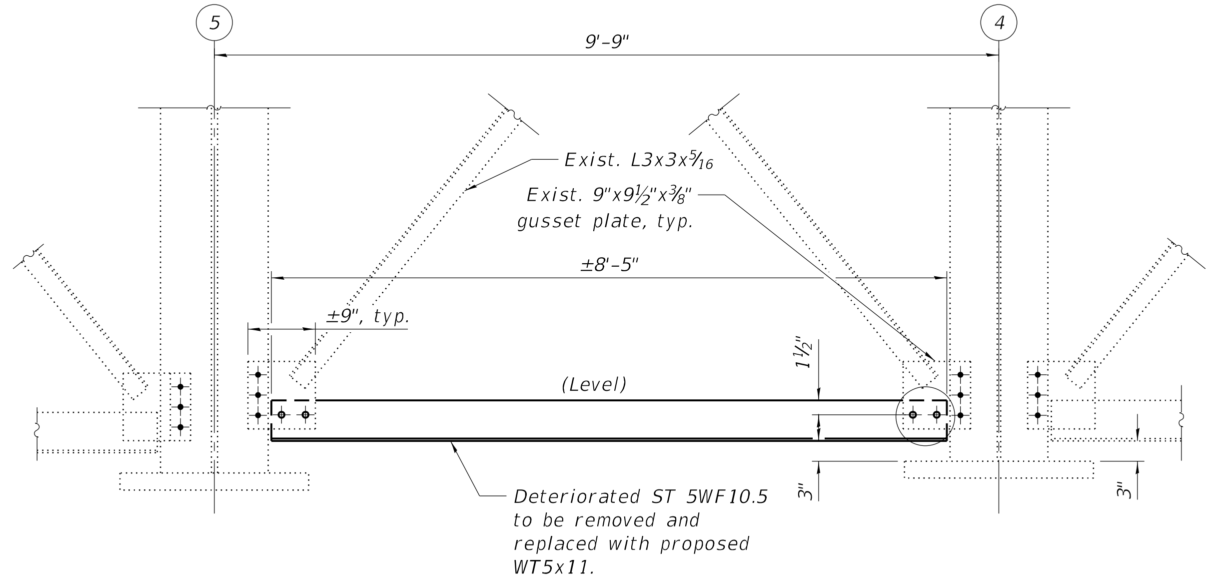
CONTRACT NO. 66F08
ILLINOIS FED. AID PROJECT



ELEVATION

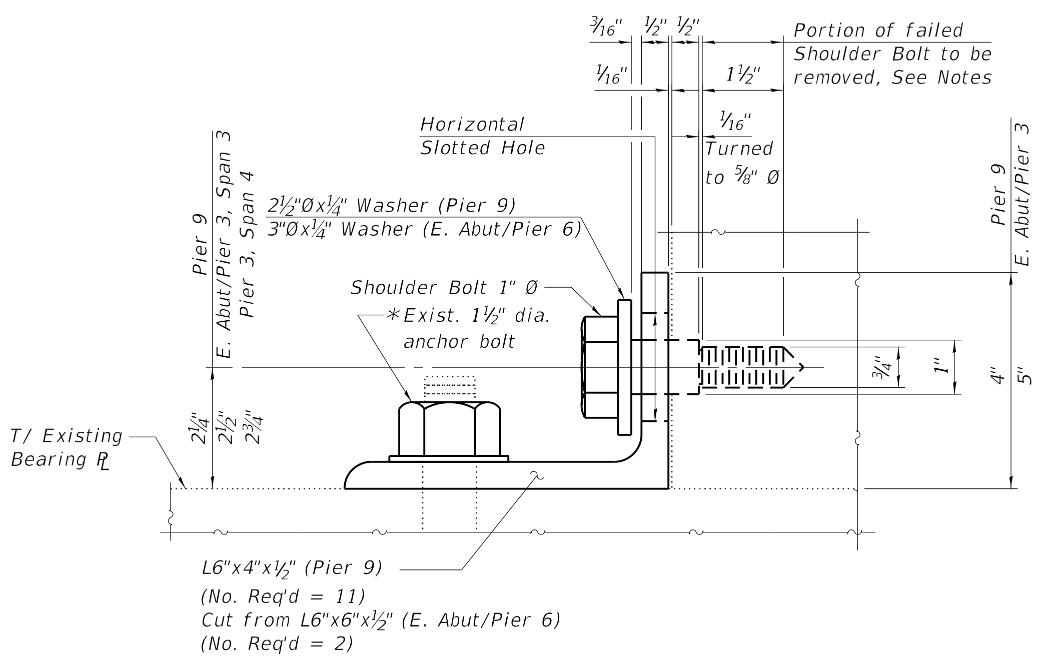


END VIEW

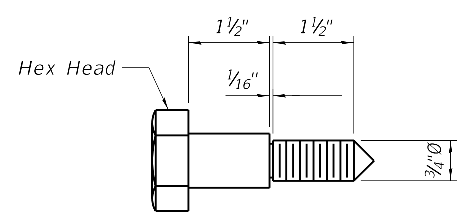


REPAIR DETAIL "S"

(Looking West)

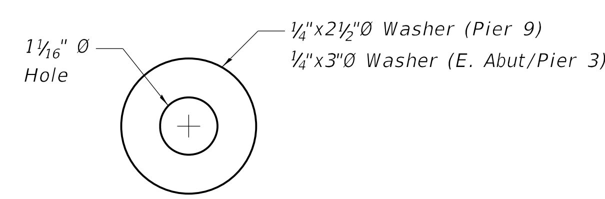


DETAIL Z



SHOULDER BOLT DETAIL

(total No. req'd = 13)
Shoulder Bolts shall be
AASHTO M164 High Strength Bolts



WASHER DETAIL

(Total No. Req'd = 13)

* Replace anchor bolt hex nuts and 3"x3"x5/16" plate washers at Girders 2 & 3 (Pier 8)

BEARING RETAINER & BOLT REPAIR

NOTES:

1. The Existing Shoulder Bolts at the designated locations have failed. The threaded portions of the failed Shoulder Bolts are embedded in the Existing Bearing Assemblies and are to be removed to allow installation of new Shoulder Bolts. The cost of furnishing Shoulder Bolts, tapping holes for new Shoulder Bolts, if required, and removing the embedded portions of the failed Shoulder Bolts in the Existing Bearing Assemblies is included in Structural Steel Repair.

   After the embedded portions of the failed Shoulder Bolts have been removed from the Existing Bearing Assemblies, the Contractor shall examine the removed portions of the bolts and the holes in the Existing Bearing Assemblies to determine thread requirements for the new Shoulder Bolts. If bolt removal operations damage the threaded holes in the Existing Bearing Assemblies, holes shall re-tapped as needed to accept new Shoulder Bolts.

BILL OF MATERIAL

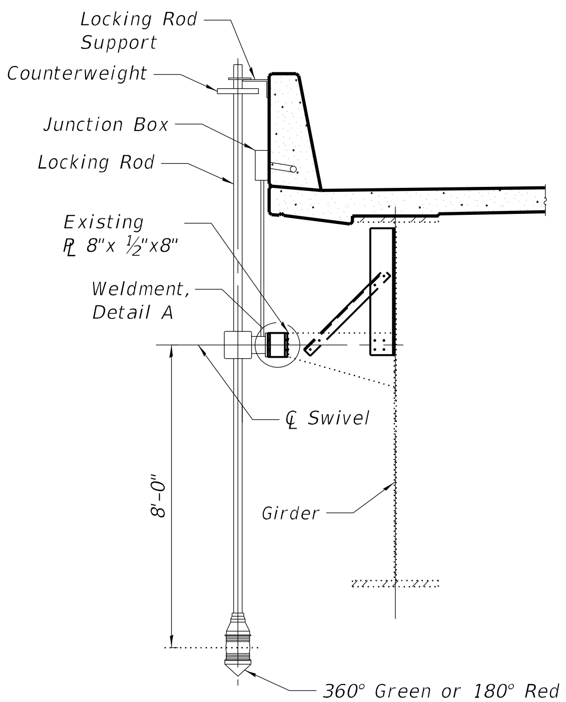
Item	Unit	Total
Structural Steel Repair	Pound	430

MODEL: Default
FILE NAME: 0780001-66F08-070-STLREP3.dgn

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL REPAIR DETAILS 3 STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 11/21/2019	CHECKED - ECK	REVISED -		SHEET S-70 OF S-87 SHEETS

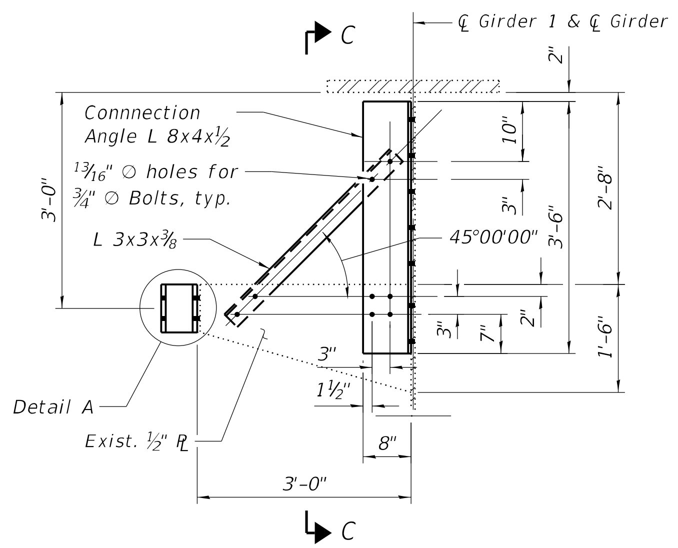
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	102
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

11/21/2019 3:18:51 PM



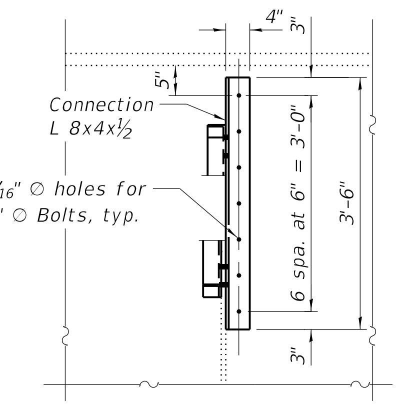
NAVIGATION LIGHTING SUPPORT DETAIL

(360 deg. shown)



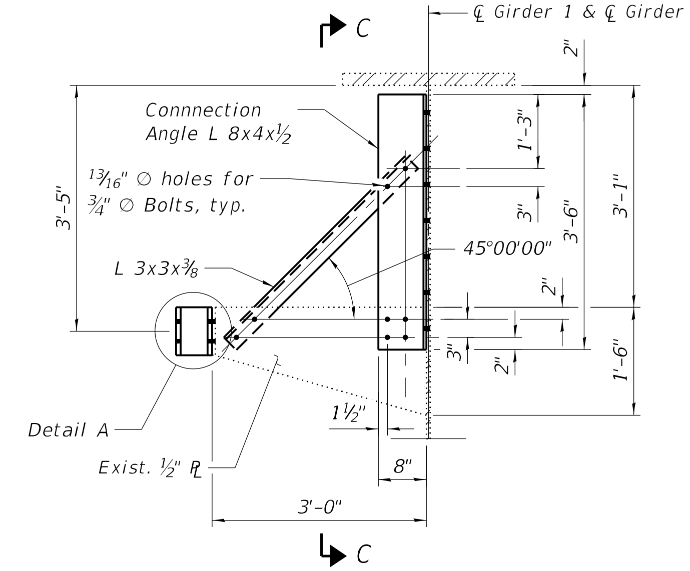
VIEW A–A

Mounting Bracket Detail at Red Navigation Light (No. required = 4)



VIEW C–C

(Connection Angle)

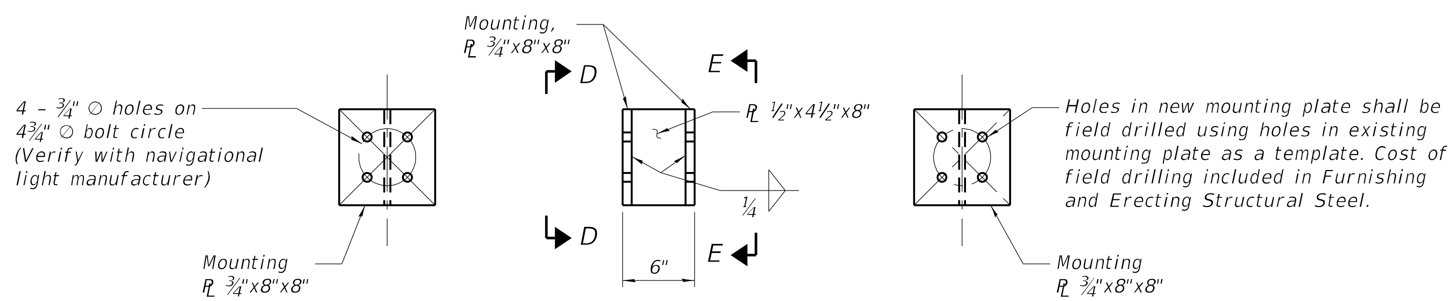


VIEW B–B

Mounting Bracket Detail at Green Navigation Light (No. required = 2)

NOTES:

1. All structural steel shown shall be AASHTO M270 Grade 50, unless noted otherwise.
2. Cost of mounting plates and bracket extensions included with cost of Furnishing and Erecting Structural Steel.
3. Cost of all connection plates attached to the parapet included with cost of Waterway Obstruction Warning Luminaire, LED. See Lighting Plans.
4. Navigation lighting support components to be determined by the manufacturer. For additional details see Lighting Plans.
5. Contractor to verify location and dimensions of existing 1/2" navigational lighting plate support prior to fabrication of additional support members.
6. For location of Views A–A & B–B, see Sheet S–67 of S–87 .



VIEW D–D

DETAIL A

(Bracket Extension)

VIEW E–E

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	950

MODEL: Default
FILE NAME: 0780001-66F08-071-NAVLTG.dgn
10/16/2019 3:18:32 PM

BURNS McDONNELL

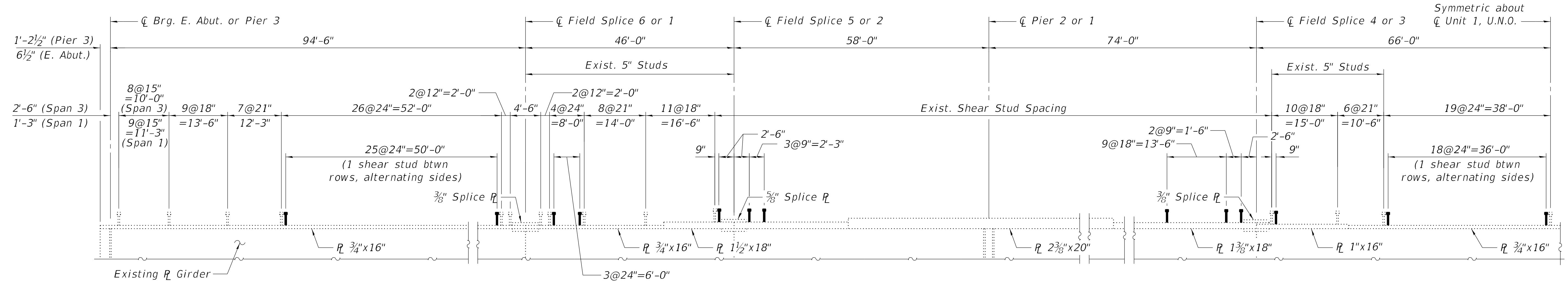
USER NAME = eckay	DESIGNED - ECK	REVISED -
	CHECKED - TG / GEK	REVISED -
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

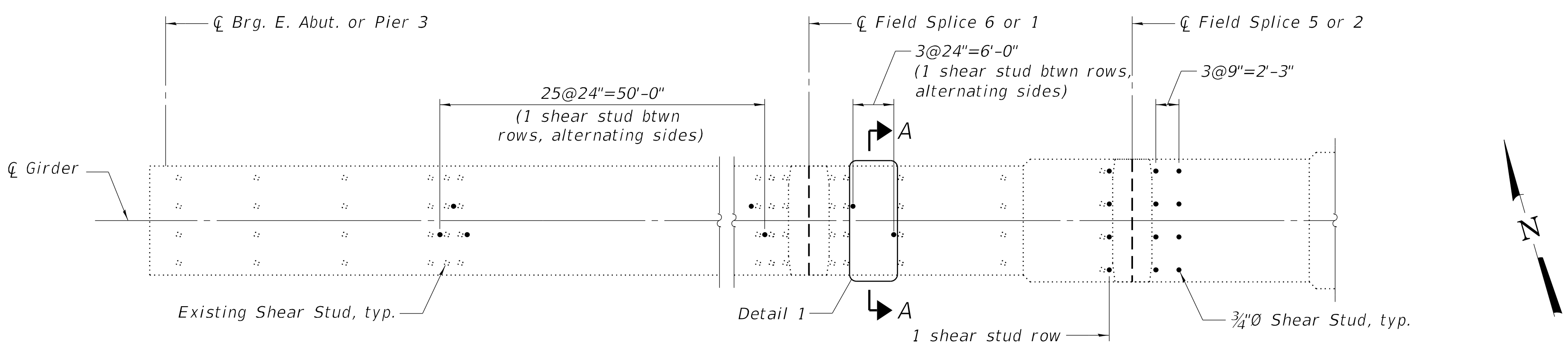
NAVIGATIONAL LIGHTING STEEL DETAILS
STRUCTURE NO. 078-0001

SHEET S-71 OF S-87 SHEETS

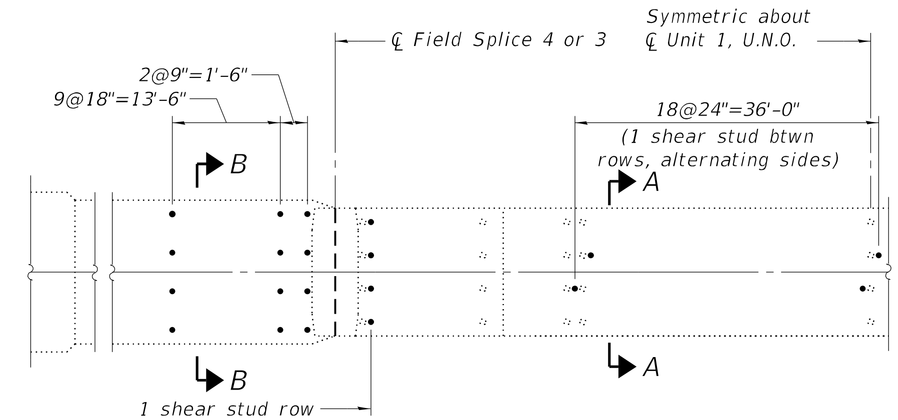
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	103
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		



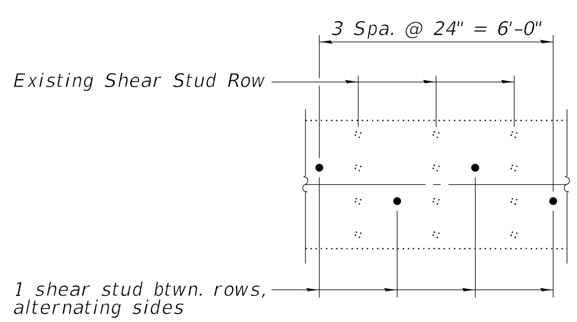
GIRDER ELEVATION



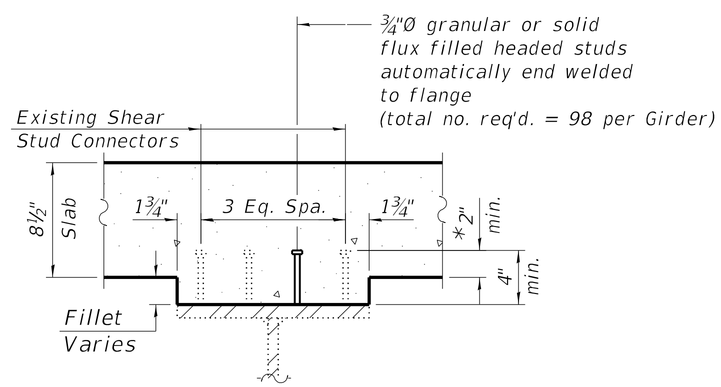
PARTIAL PLAN
(Span 3 or 1)



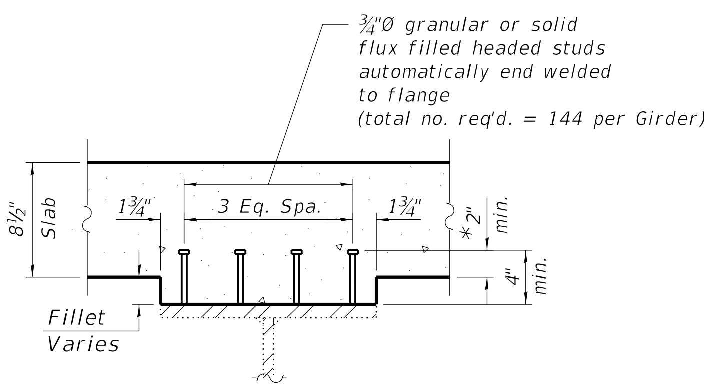
PARTIAL PLAN
(Span 2)



DETAIL 1



SECTION A–A



SECTION B–B

*Fillet reinforcement required if studs do not meet minimum 2" projection into deck. See Sheet S-55 of S-87 for fillet reinforcement detail.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	1,694

MODEL: Default
FILE NAME: 0780001-66F08-072-STUD1.dgn

BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

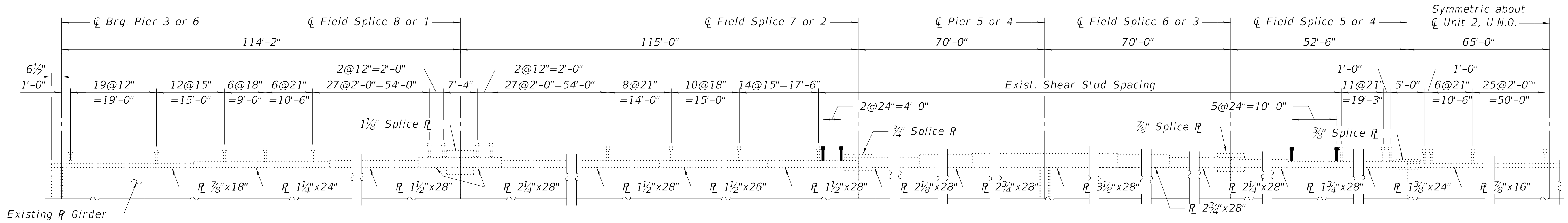
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEAR STUDS - UNIT 1
STRUCTURE NO. 078-0001

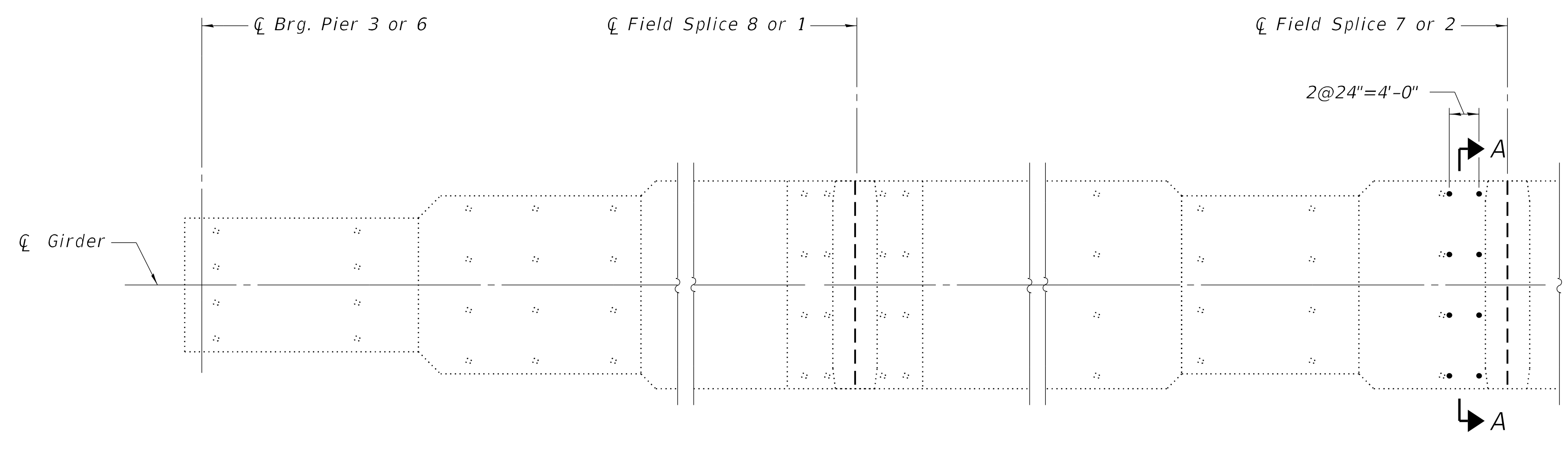
SHEET S-72 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	104
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		

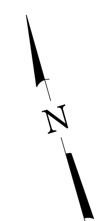
10/16/2019 3:18:34 PM

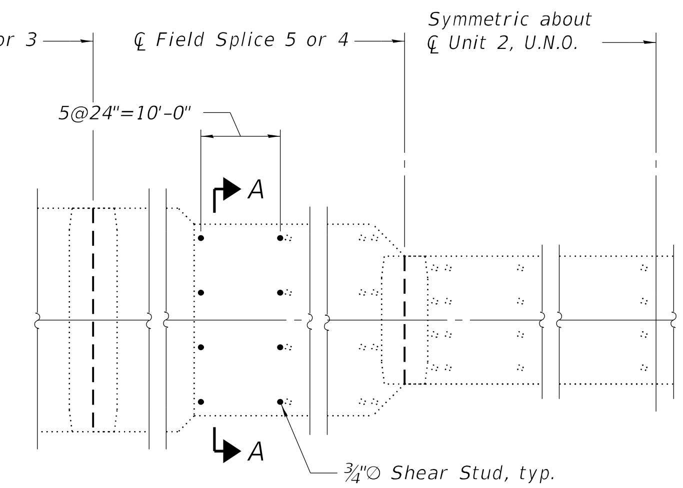


GIRDER ELEVATION

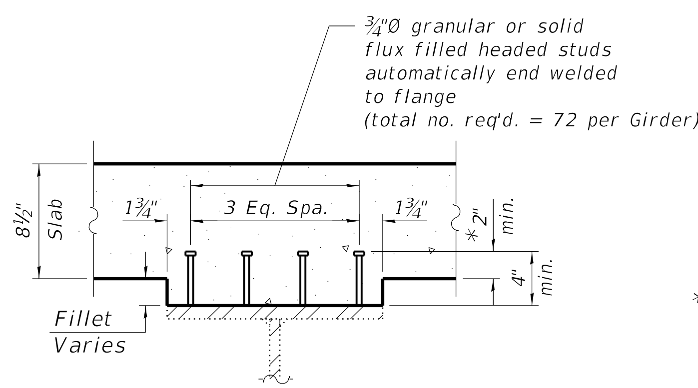


PARTIAL PLAN
(Span 6 or 4)





PARTIAL PLAN
(Span 5)



SECTION A-A

* Fillet reinforcement required if studs do not meet minimum 2" projection into deck. See Sheet S-55 of S-87 for fillet reinforcement detail.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	504

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -
		CHECKED - TG / GEK	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEAR STUDS - UNIT 2
STRUCTURE NO. 078-0001

SHEET S-73 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	105
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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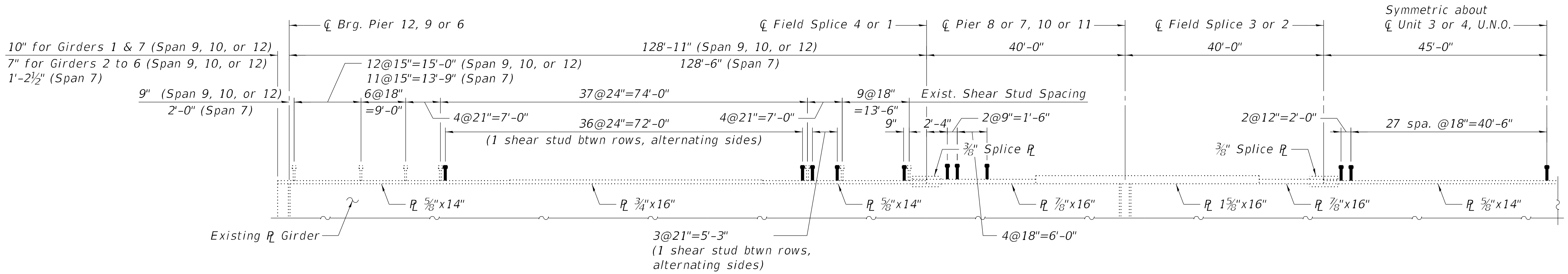
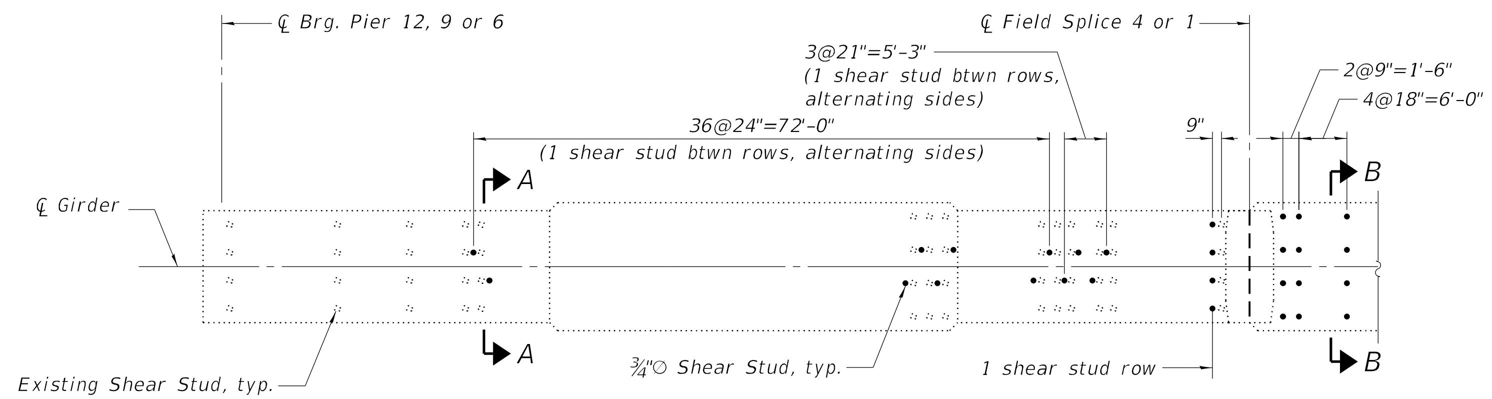
10/16/2019 3:18:36 PM

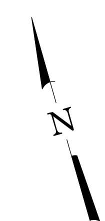


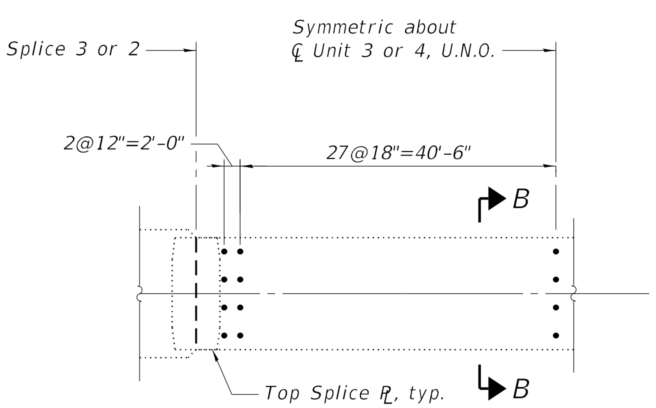
GIRDER ELEVATION

36@24"=72'-0"
(1 shear stud btwn rows, alternating sides)

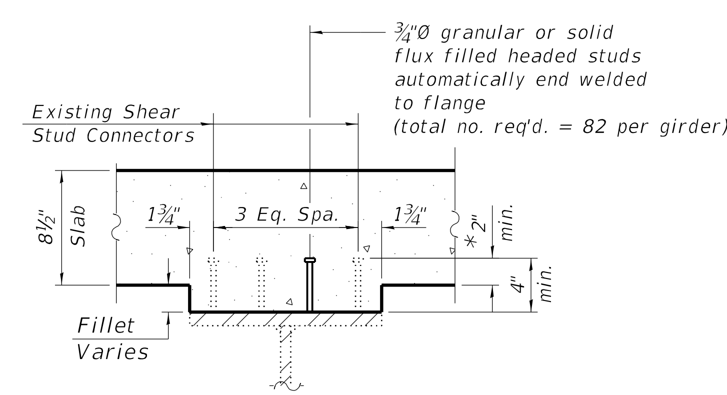


PARTIAL PLAN
(Span 7, 9, 10 or 12)

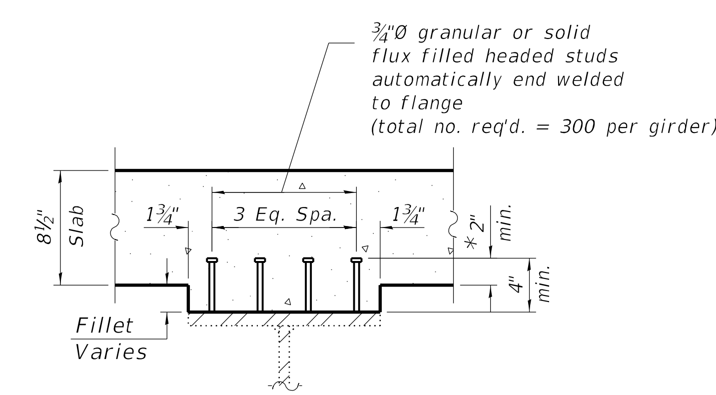




PARTIAL PLAN
(Span 8 or 11)



SECTION A-A



SECTION B-B

*Fillet reinforcement required if studs do not meet minimum 2" projection into deck. See Sheet S-55 of S-87 for fillet reinforcement detail.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	5,348

MODEL: Default
FILE NAME: 0780001-66F08-074-STUD3.dgn

BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

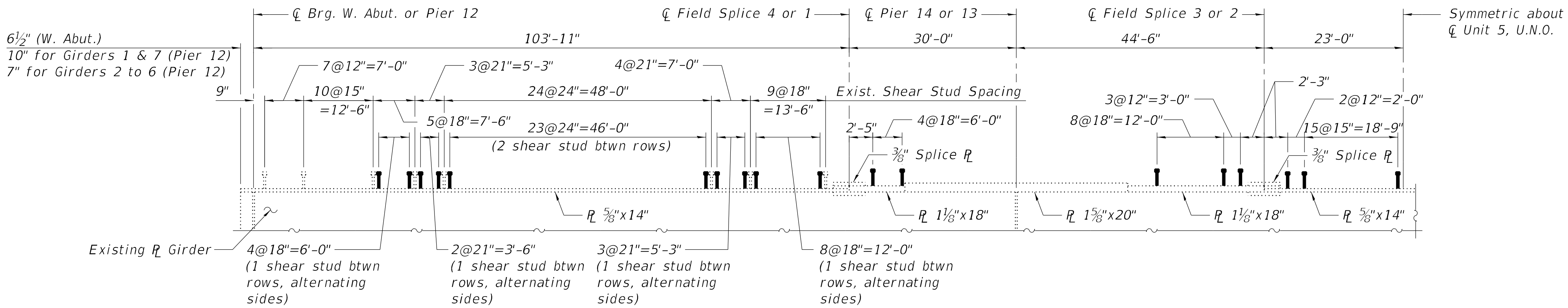
SHEAR STUDS - UNITS 3 & 4
STRUCTURE NO. 078-0001

SHEET S-74 OF S-87 SHEETS

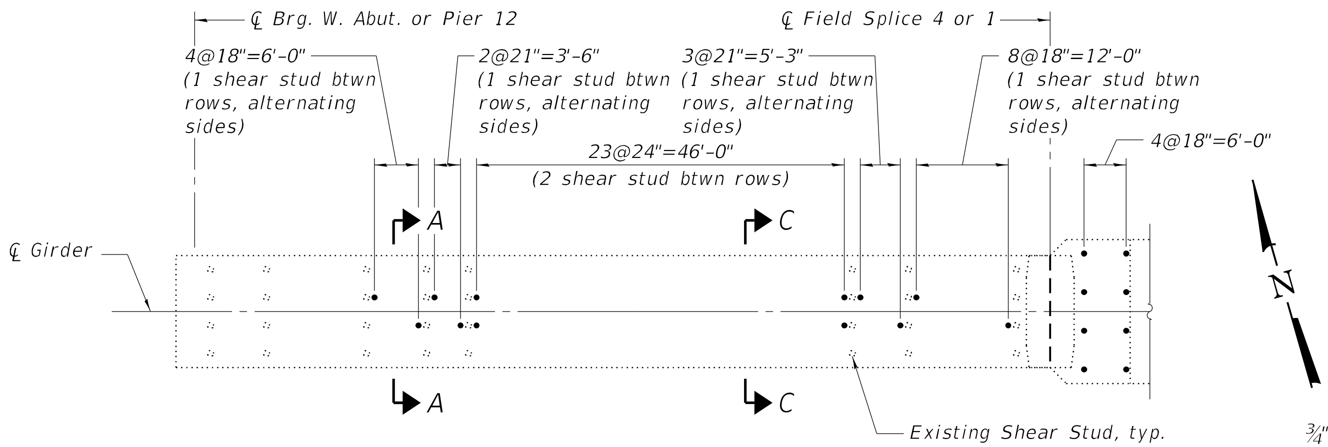
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	106

CONTRACT NO. 66F08
ILLINOIS FED. AID PROJECT

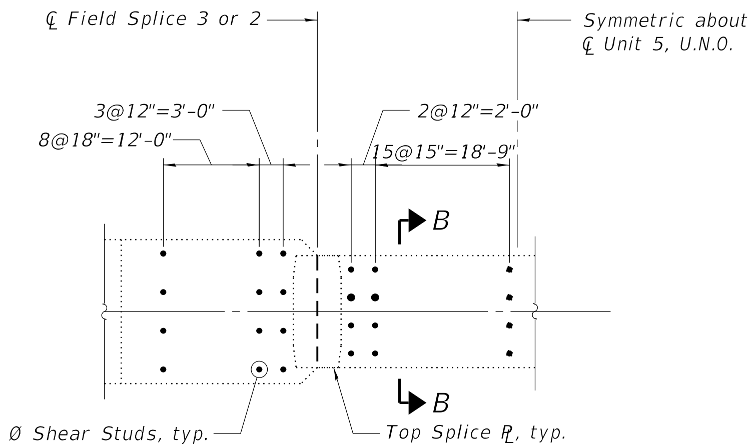
10/16/2019 3:18:37 PM



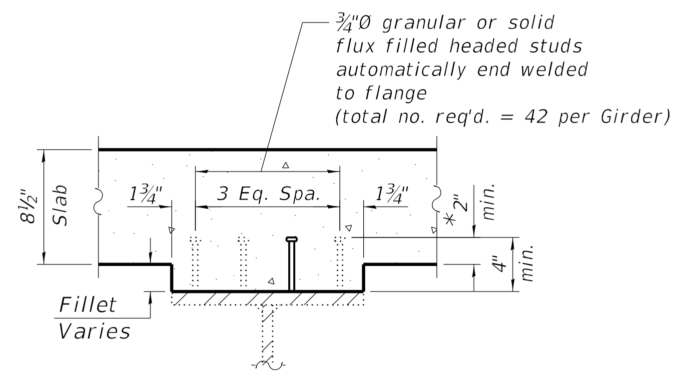
GIRDER ELEVATION



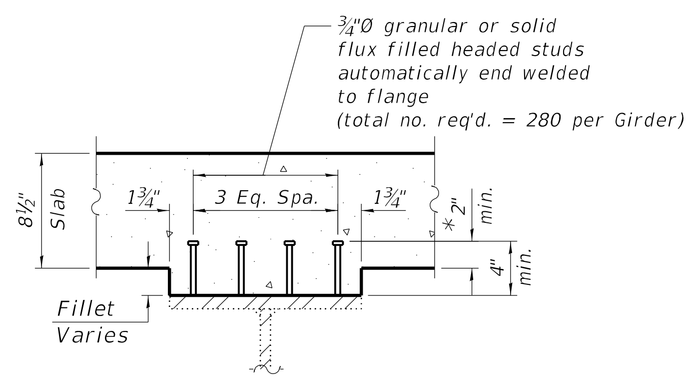
PARTIAL PLAN
(Span 15 or 13)



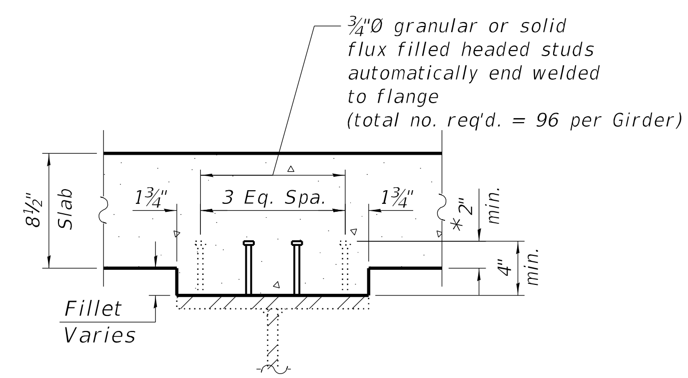
PARTIAL PLAN
(Span 14)



SECTION A-A



SECTION B-B



SECTION C-C

*Fillet reinforcement required if studs do not meet minimum 2" projection into deck. See Sheet S-55 of S-87 for fillet reinforcement detail.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	2,926

BURNS McDONNELL

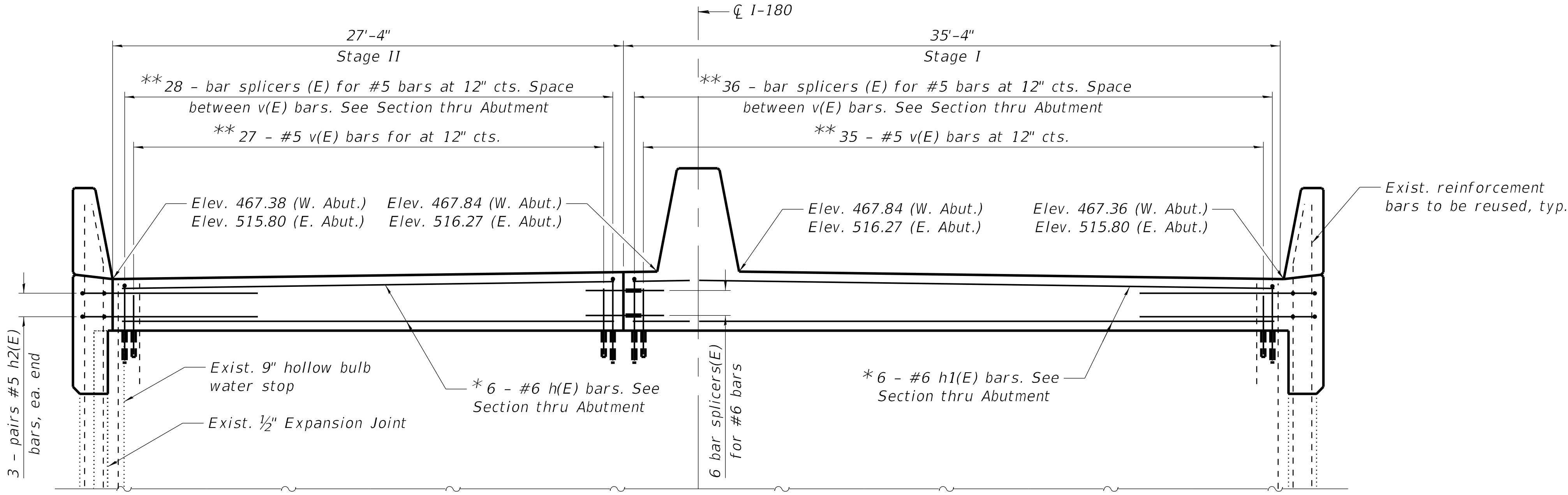
USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEAR STUDS - UNIT 5
STRUCTURE NO. 078-0001

SHEET S-75 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	107
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		



Elevation

(East Abutment Looking East)
(West Abutment Mirrored)

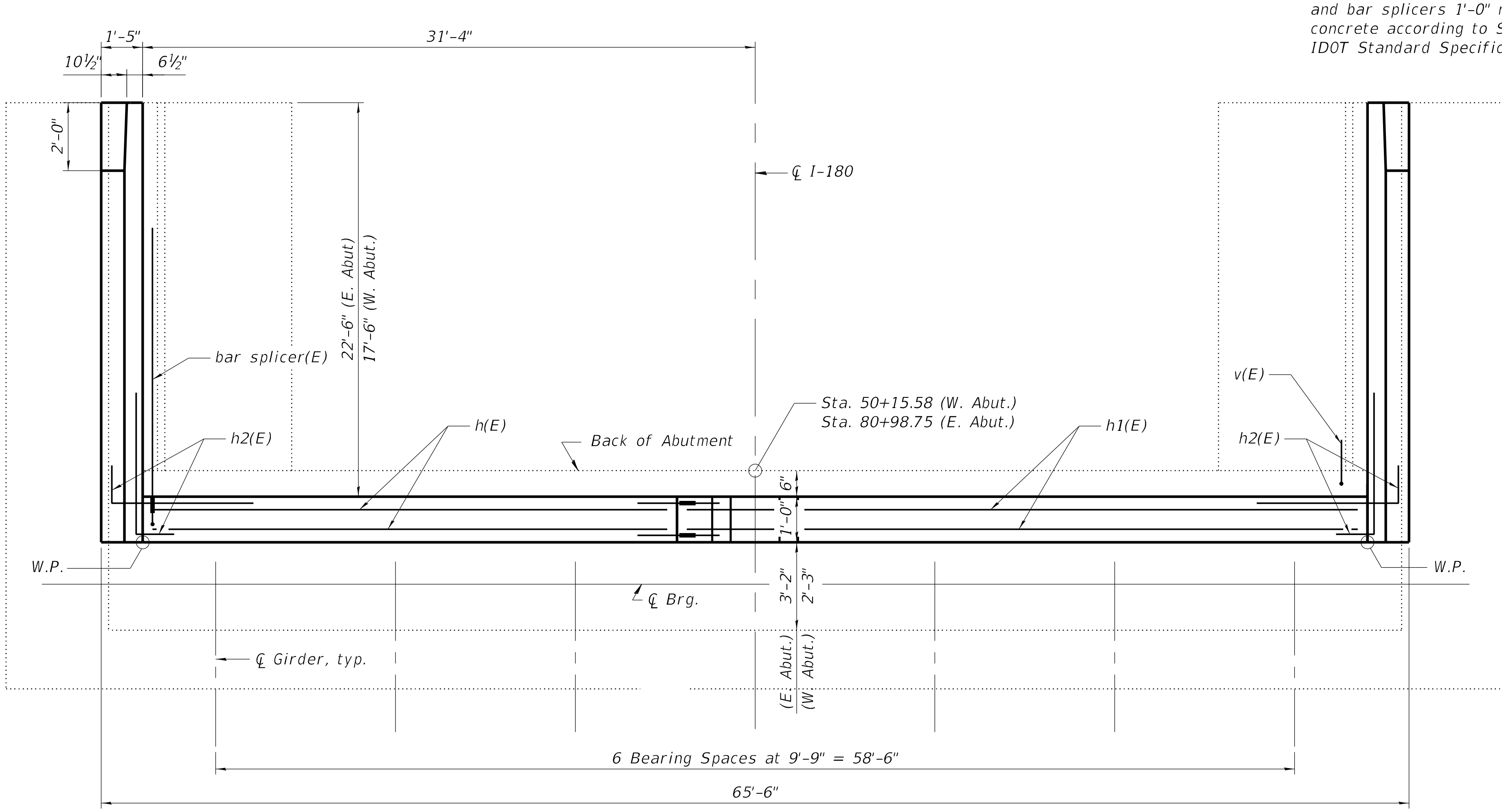
TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#6	35'-0"	
h1(E)	12	#6	27'-0"	
h2(E)	24	#5	6'-8"	
h3(E)	20	#4	23'-2"	
h4(E)	32	#4	18'-2"	
h5(E)	24	#4	11'-5"	
v(E)	124	#5	3'-9"	
v1(E)	86	#5	6'-7"	
v2(E)	86	#5	6'-8"	

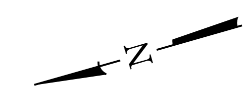
Item	Unit	Total
Structure Excavation	Cu. Yd.	20
Concrete Structures	Cu. Yd.	15.5
Concrete Superstructure	Cu. Yd.	18.8
Reinforcement Bars, Epoxy Coated	Pound	3,840
Protective Coat	Sq. Yd.	54
Granular Backfill For Structures	Cu. Yd.	35

* Field cut as required at East Abutment to place Modular Expansion device.

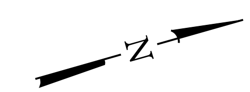
** Drill and Grout #5 v(E) bars 10" min. and bar splicers 1'-0" min. into existing concrete according to Section 584 of the IDOT Standard Specifications.



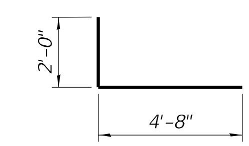
TOP VIEW



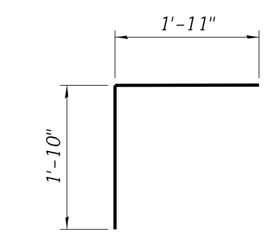
(E. Abutment)



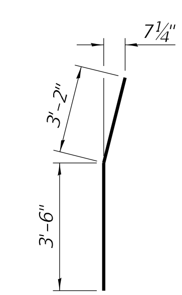
(W. Abutment)



BAR h2(E)



BAR v(E)



BAR v2(E)

NOTES:

1. See Sheet S-77 of S-87 for Notes.

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENTS STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET S-76 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	108
CONTRACT NO. 66F08				
ILLINOIS	FED. AID PROJECT			

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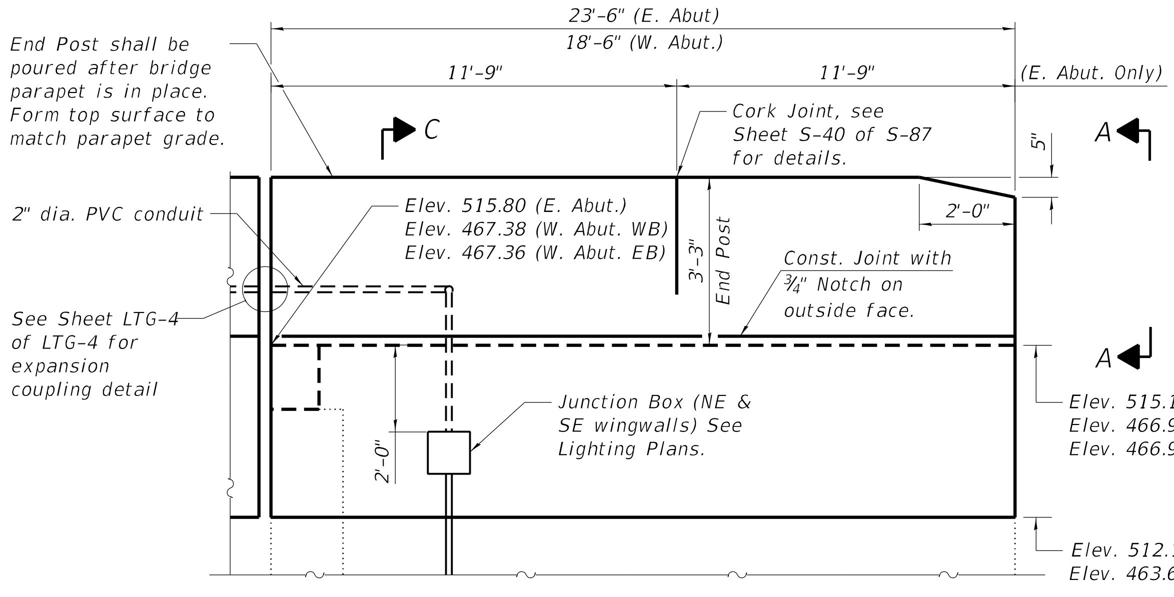
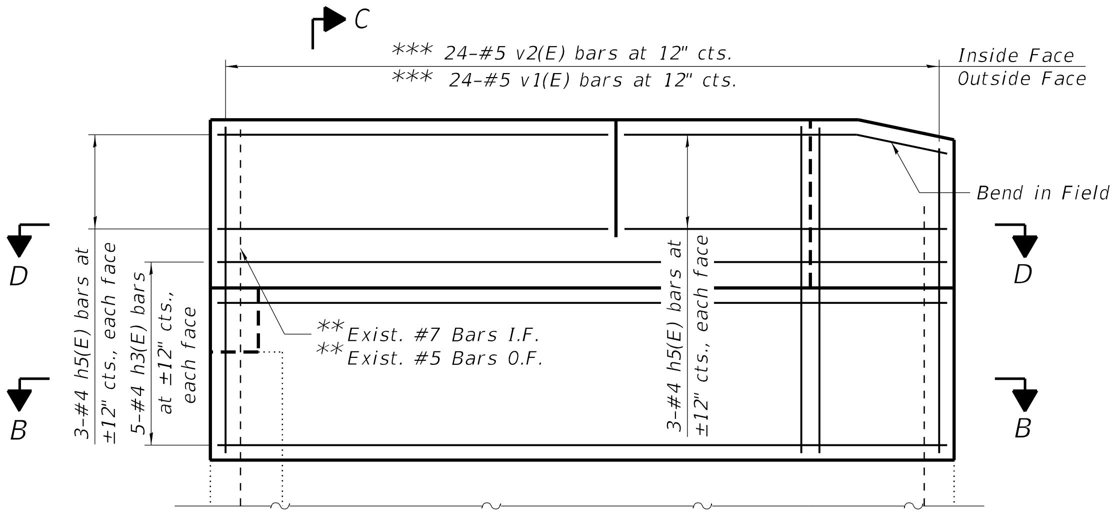
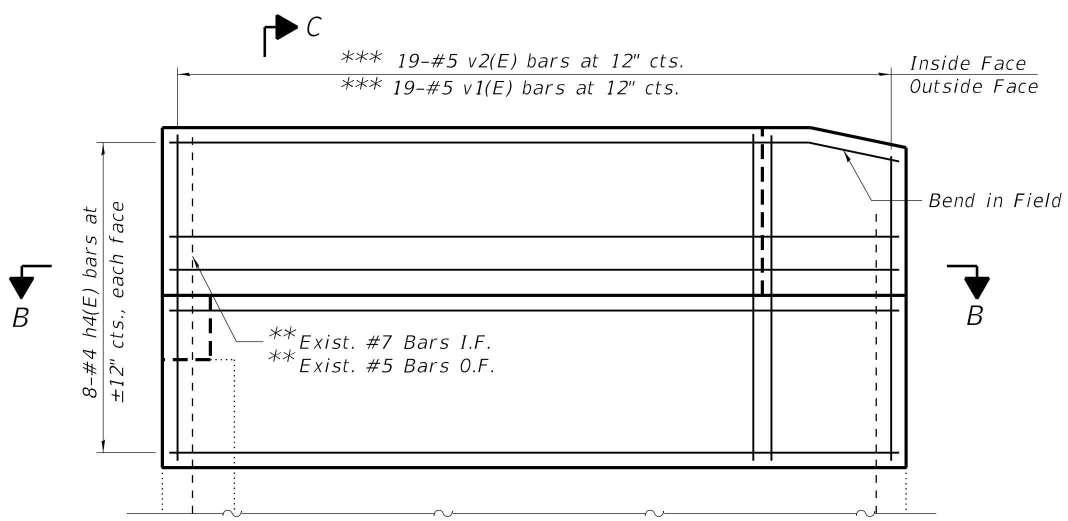


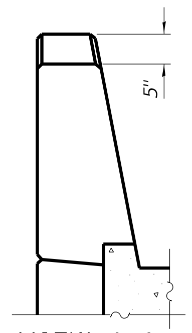
WING WALL ELEVATION
(Showing Dimensions)



EAST WING WALL ELEVATION
(Showing Reinforcement)



WEST WING WALL ELEVATION
(Showing Reinforcement)

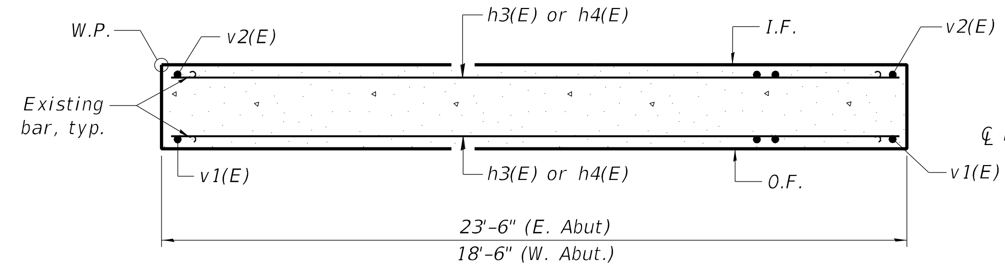


VIEW A-A

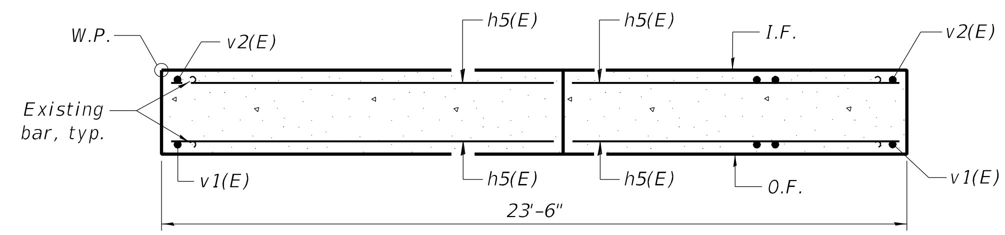
* Drill and Grout #5 v(E) bars 10" min. and bar splicers 1'-0" min. into existing concrete according to Section 584 of the IDOT Standard Specifications.

** Cut & bend to fit in field.

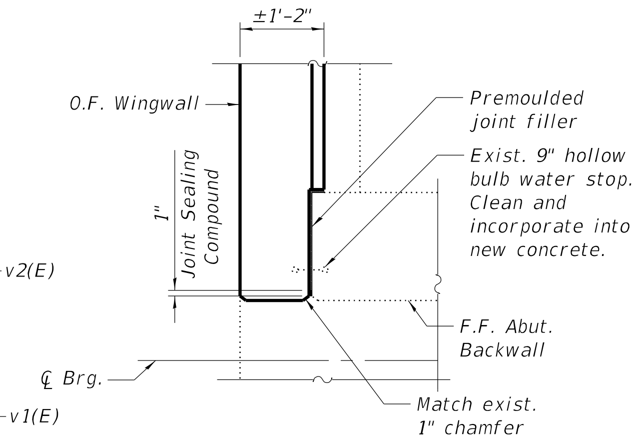
*** Lap 2'-11" min. with existing reinforcing bars and cut to fit in field.



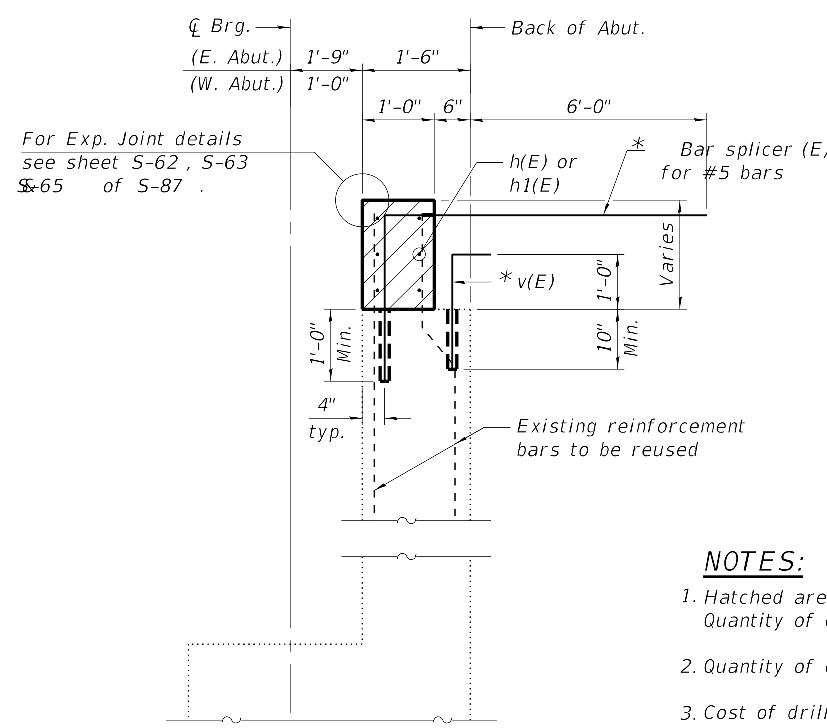
SECTION B-B



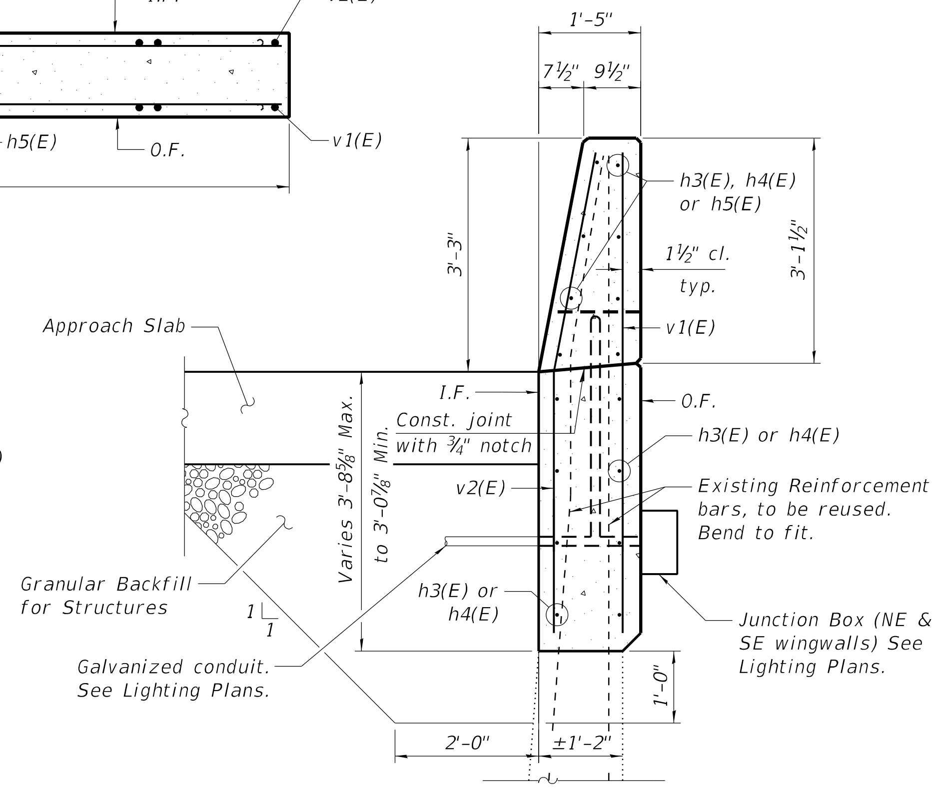
SECTION D-D



EXPANSION JOINT DETAIL



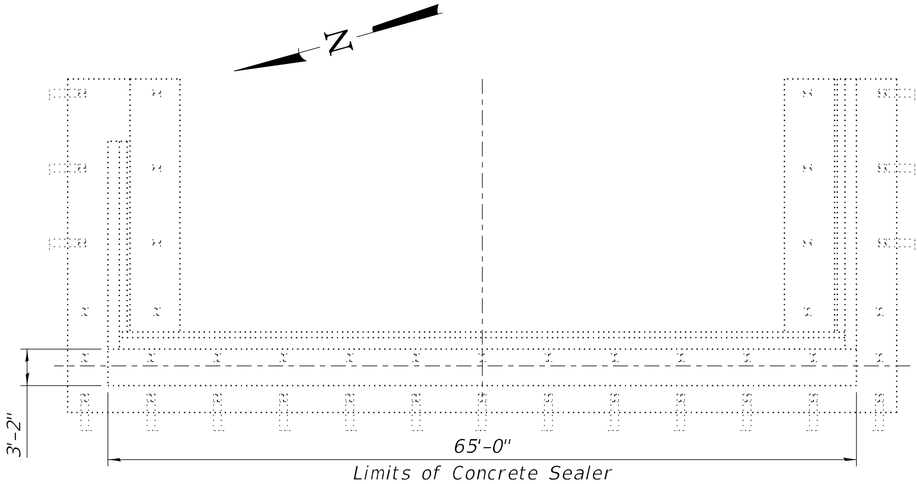
SECTION THRU ABUTMENTS



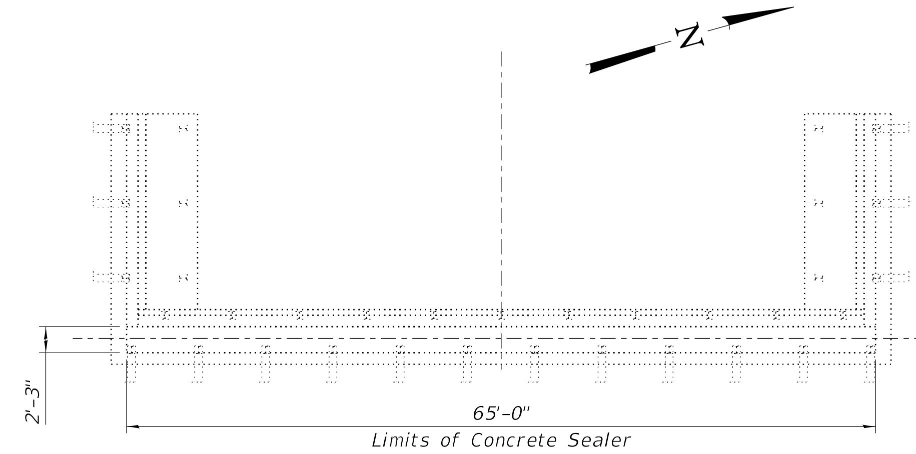
SECTION C-C

NOTES:

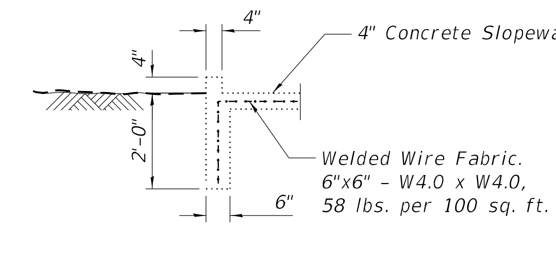
1. Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
2. Quantity of concrete in end post included with Concrete Superstructure.
3. Cost of drill and grout included with cost of Reinforcement Bars, Epoxy Coated.
4. Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
5. For bar splicer details see Sheet S-86 of S-87 .



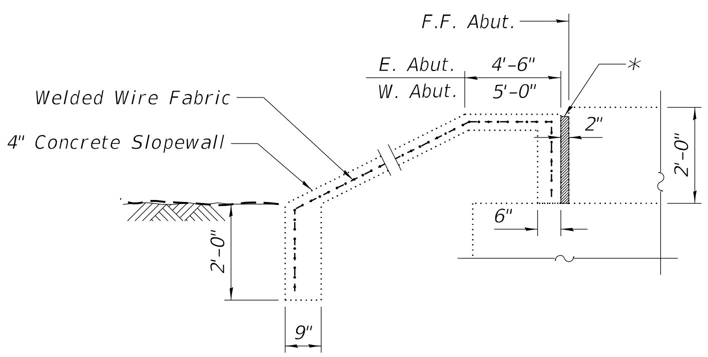
EAST ABUTMENT PLAN



WEST ABUTMENT PLAN

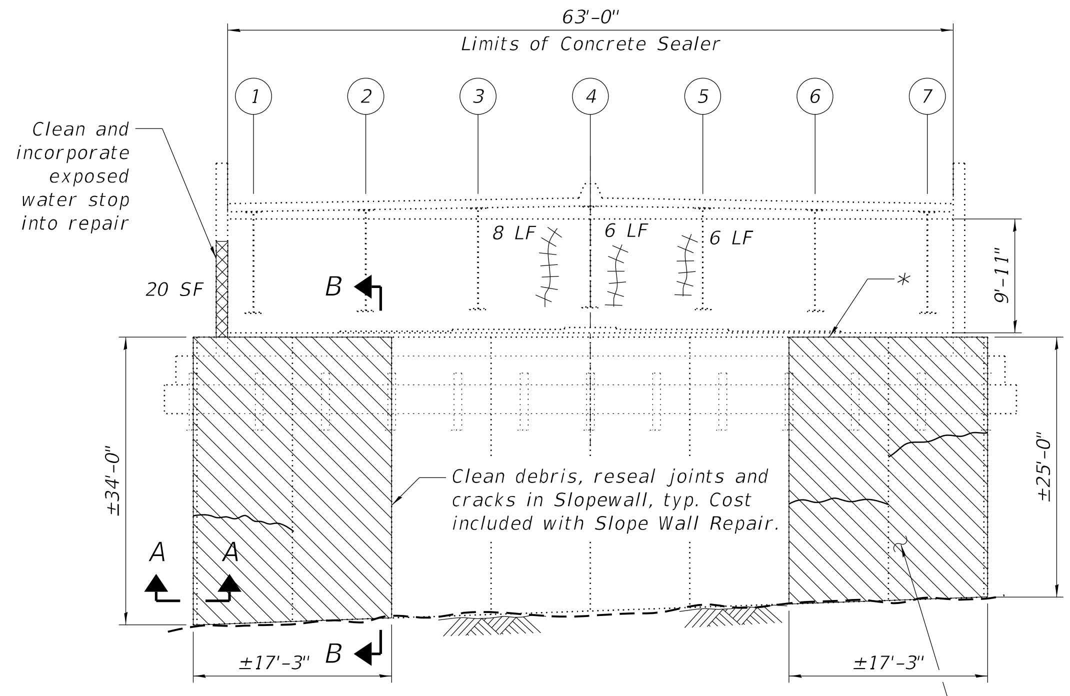


SECTION A-A



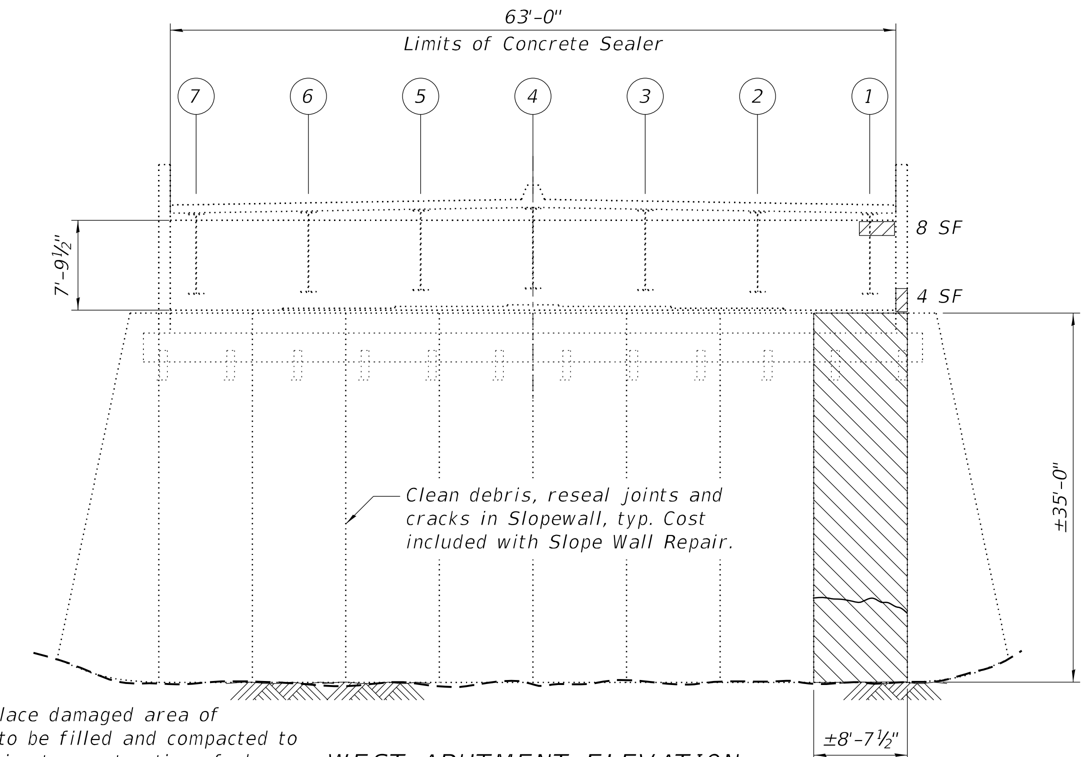
SECTION B-B

* Gap to be filled with Preformed Joint Filler. Cost included with Slope Wall Repair.



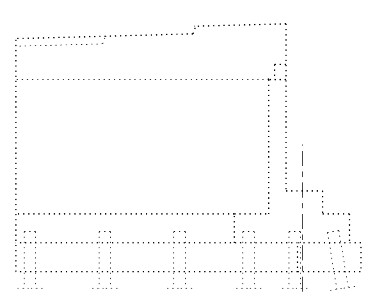
EAST ABUTMENT ELEVATION

(Looking East)



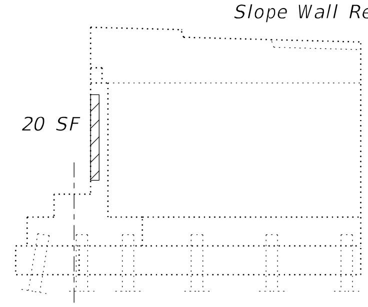
WEST ABUTMENT ELEVATION

(Looking West)



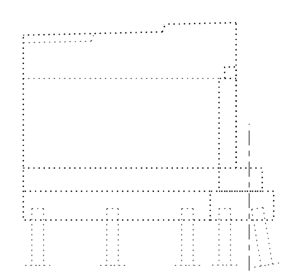
EAST ABUTMENT ELEVATION

(Looking South)



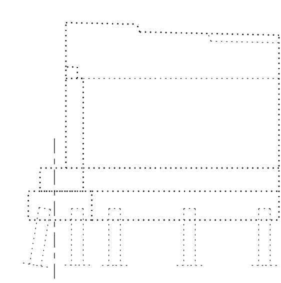
EAST ABUTMENT ELEVATION

(Looking North)



WEST ABUTMENT ELEVATION

(Looking North)



WEST ABUTMENT ELEVATION

(Looking South)

NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

LEGEND

Slope Wall Repair

Structural Repair of Concrete (Depth equal to or less than 5")

Structural Repair of Concrete (Depth greater than 5")

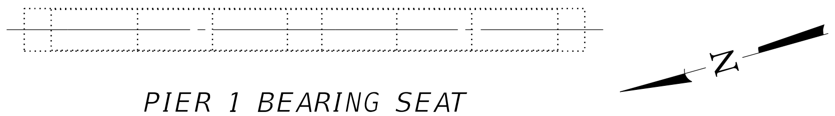
Epoxy Crack Injection (Cracks greater than or equal 1/16")

SF Square Feet

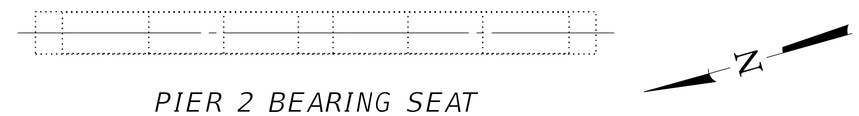
LF Linear Feet

BILL OF MATERIAL

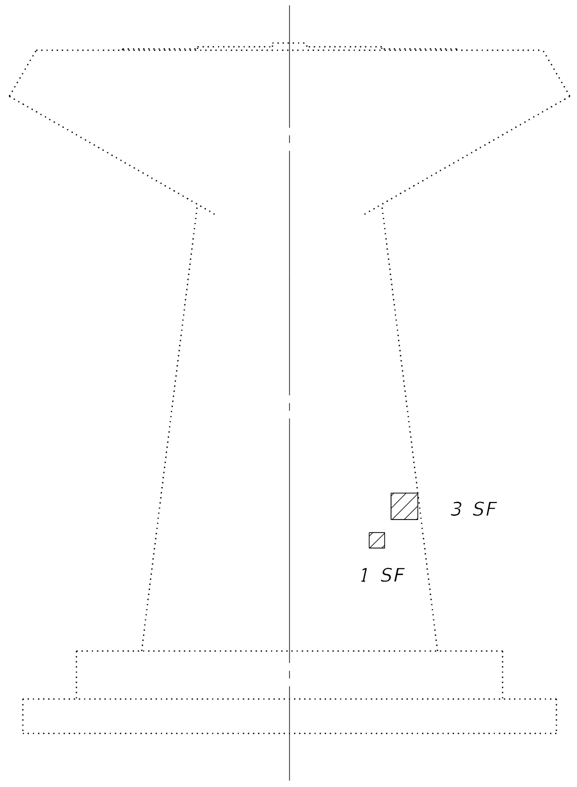
Item	Unit	Total
Concrete Sealer	Sq. Ft.	1,468
Epoxy Crack Injection	Foot	20
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	32
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	20
Slope Wall Repair	Sq. Yd.	169



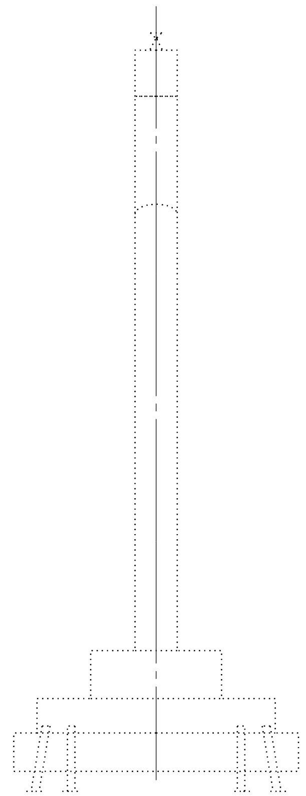
PIER 1 BEARING SEAT



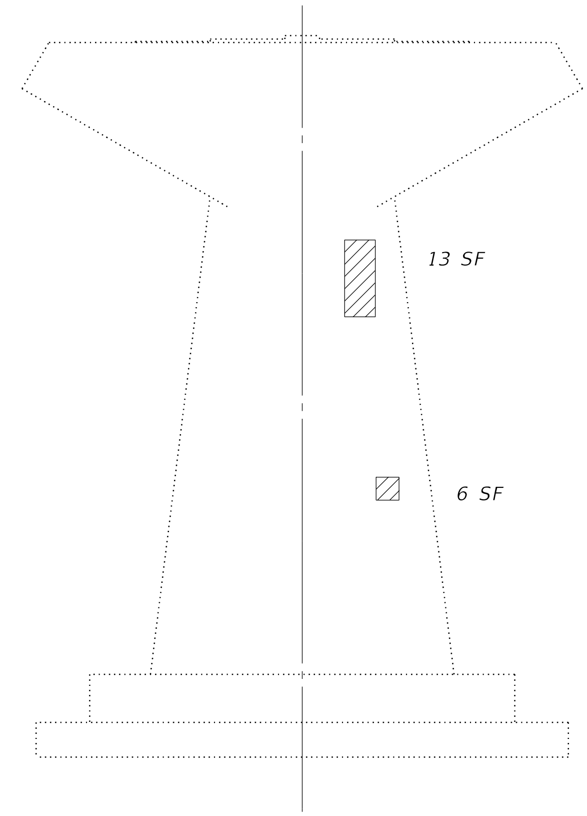
PIER 2 BEARING SEAT



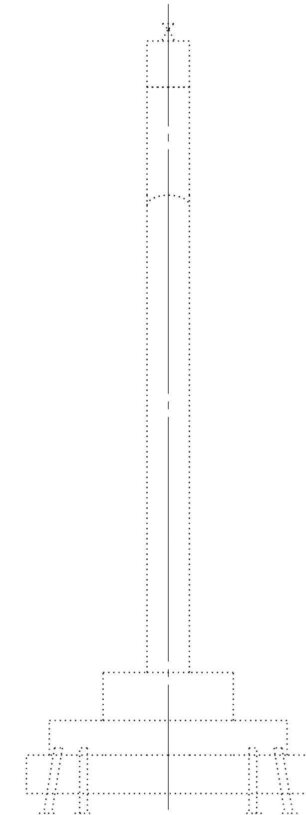
PIER 1 ELEVATION
(Looking East)



PIER 1 ELEVATION
(Looking South)



PIER 2 ELEVATION
(Looking East)



PIER 2 ELEVATION
(Looking South)

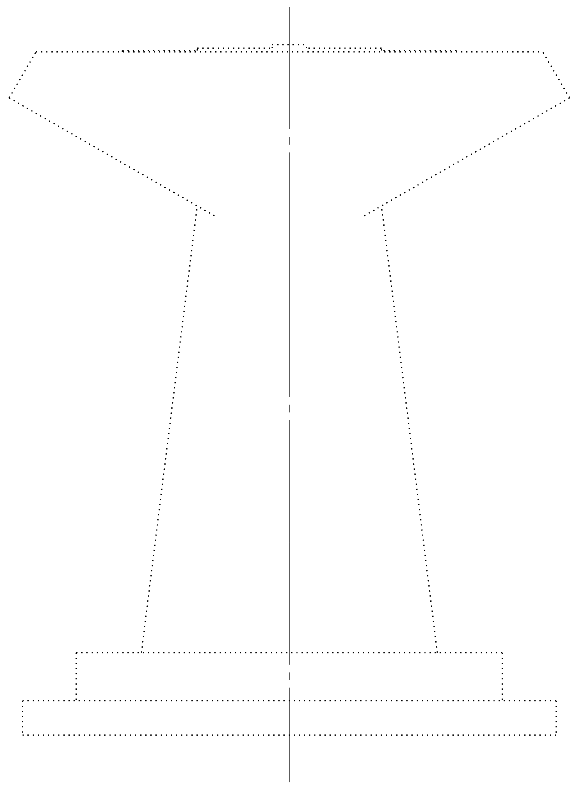
LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

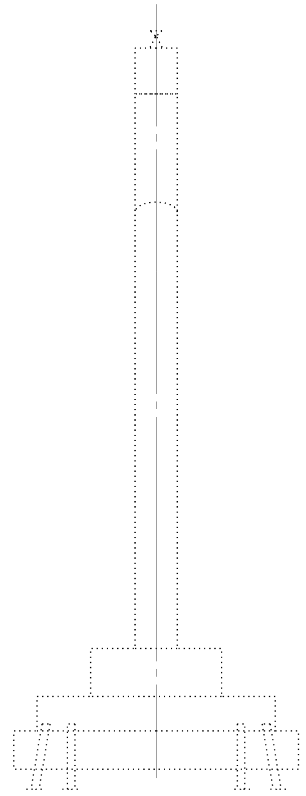
SF Square Feet

NOTES:

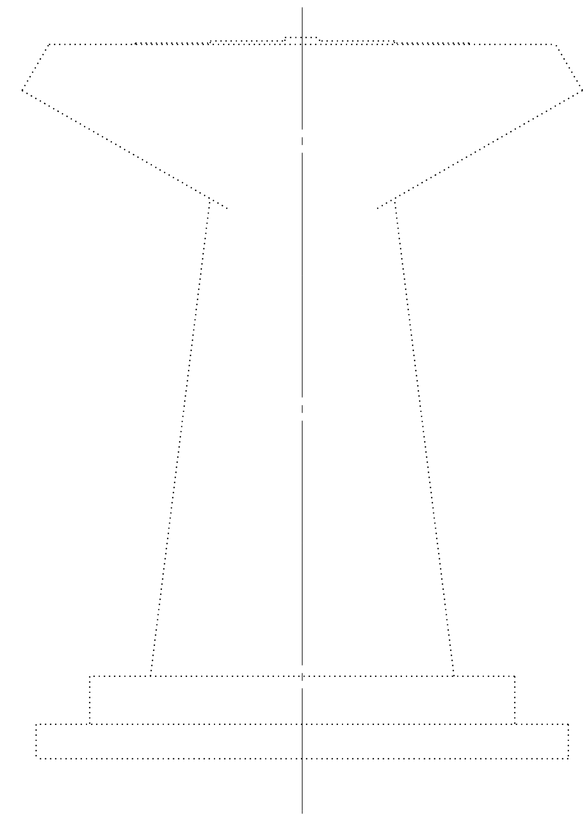
The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.



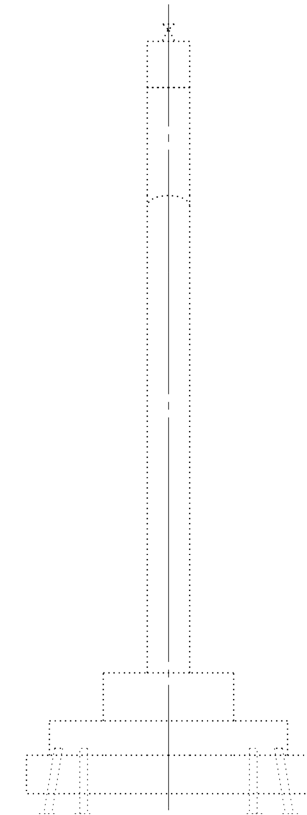
PIER 1 ELEVATION
(Looking West)



PIER 1 ELEVATION
(Looking North)



PIER 2 ELEVATION
(Looking West)



PIER 2 ELEVATION
(Looking North)

BILL OF MATERIAL

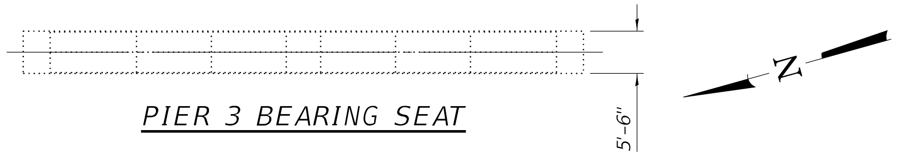
Item	Unit	Total
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	23

MODEL: Default
FILE NAME: 0780001-66F08-079-REP2.dgn

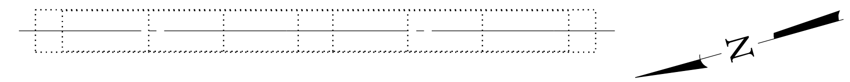
BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER REPAIRS 1 STRUCTURE NO. 078-0001
		CHECKED - GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - LA	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET S-79 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	111
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

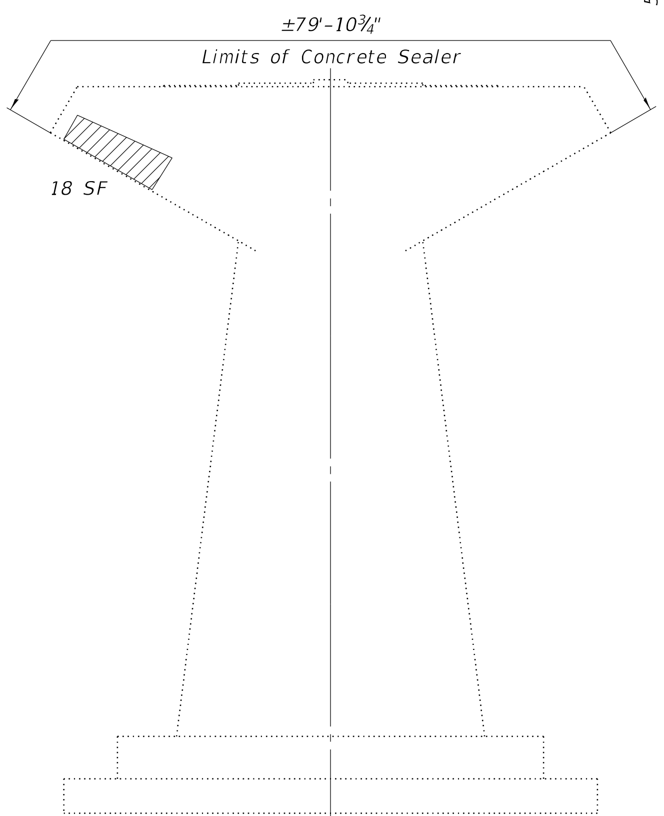
10/16/2019 3:18:47 PM



PIER 3 BEARING SEAT

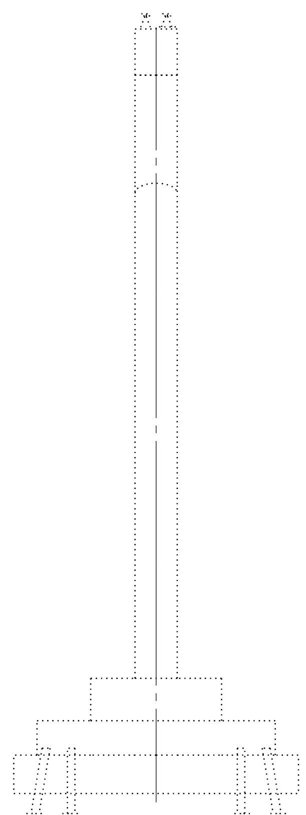


PIER 4 BEARING SEAT



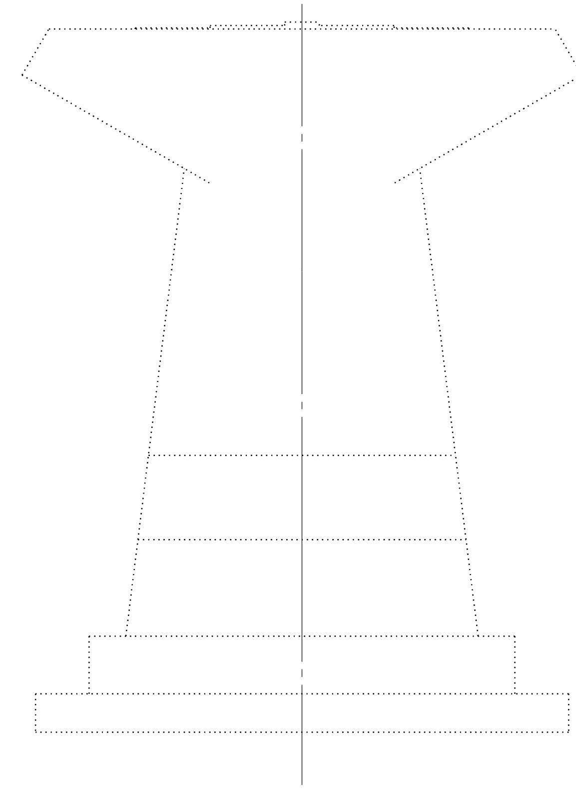
PIER 3 ELEVATION

(Looking East)



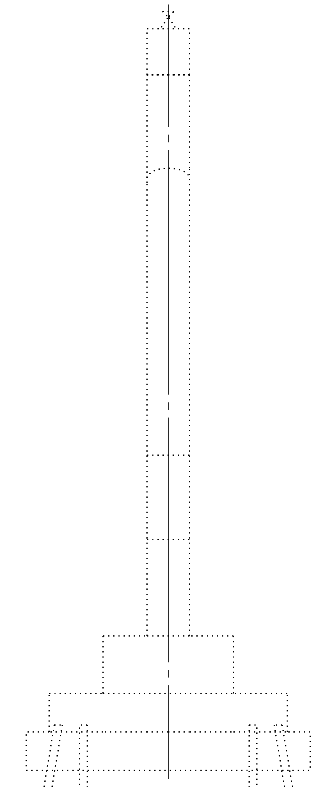
PIER 3 ELEVATION

(Looking South)



PIER 4 ELEVATION

(Looking East)



PIER 4 ELEVATION

(Looking South)

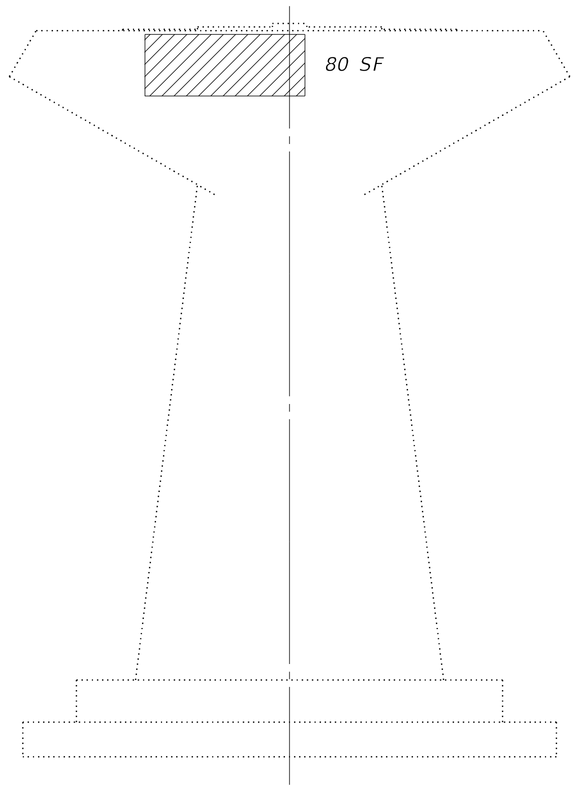
LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

SF Square Feet

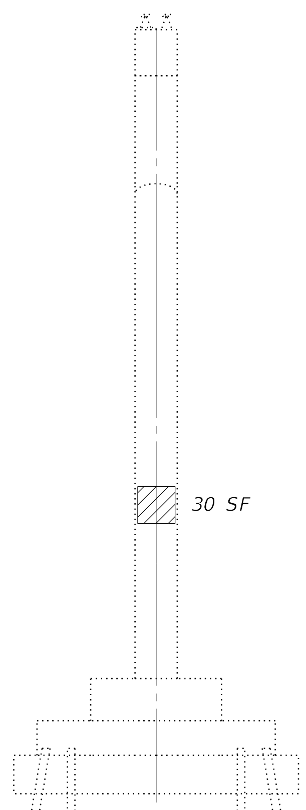
NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.



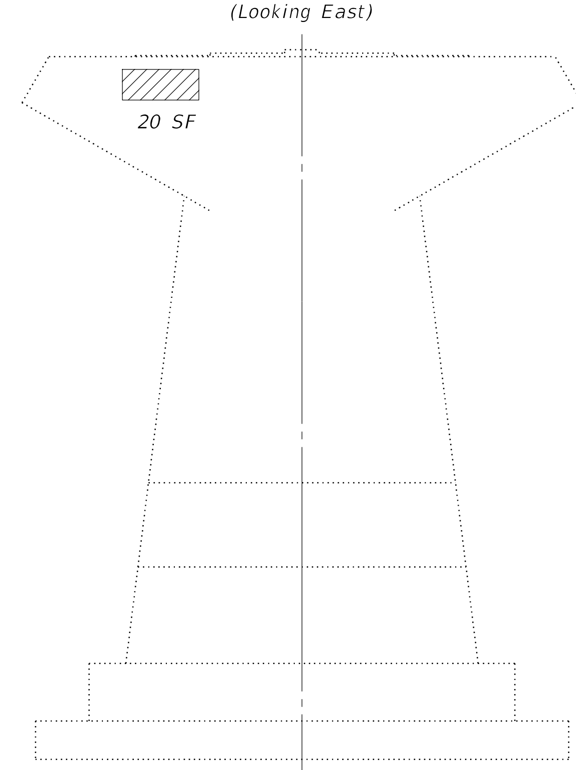
PIER 3 ELEVATION

(Looking West)



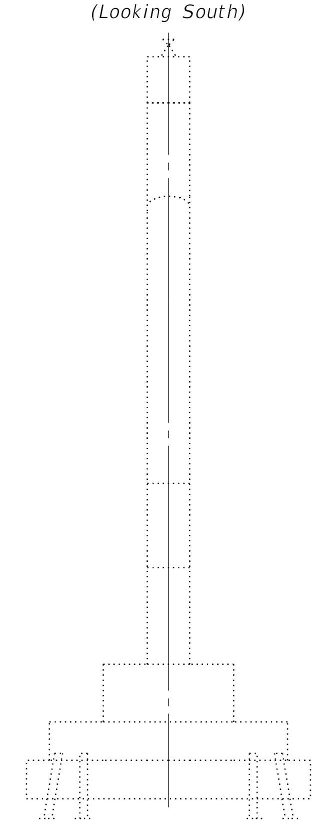
PIER 3 ELEVATION

(Looking North)



PIER 4 ELEVATION

(Looking West)



PIER 4 ELEVATION

(Looking North)

BILL OF MATERIAL

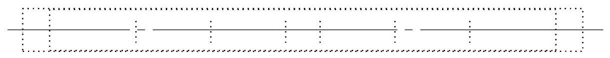
Item	Unit	Total
Concrete Sealer	Sq. Ft.	440
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	148

MODEL: Default
FILE NAME: 0780001-66F08-080-REP3.dgn

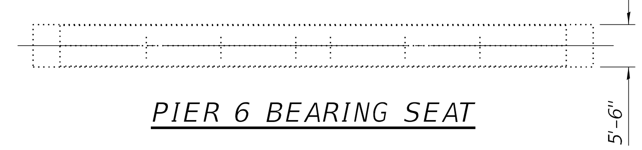
BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER REPAIRS 2 STRUCTURE NO. 078-0001
		CHECKED - GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - LA	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET S-80 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	112
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

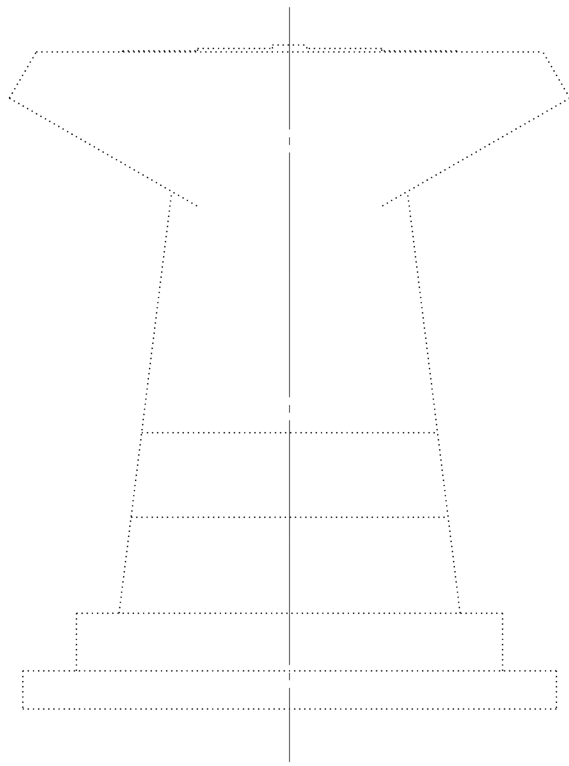
10/16/2019 3:18:48 PM



PIER 5 BEARING SEAT

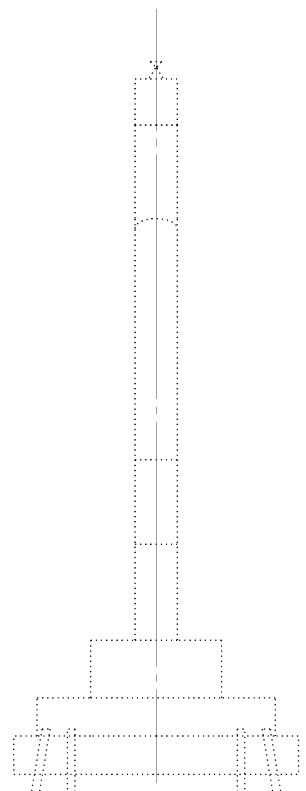


PIER 6 BEARING SEAT



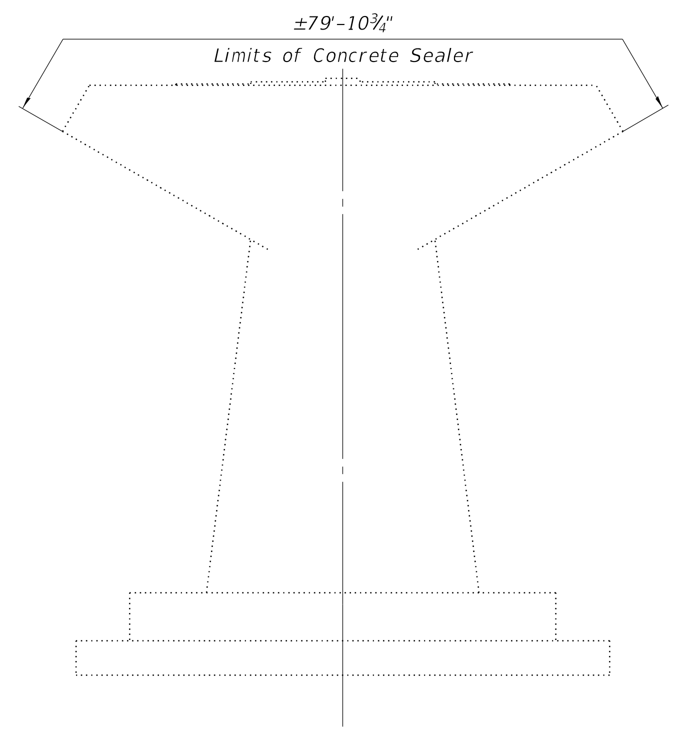
PIER 5 ELEVATION

(Looking East)



PIER 5 ELEVATION

(Looking South)



PIER 6 ELEVATION

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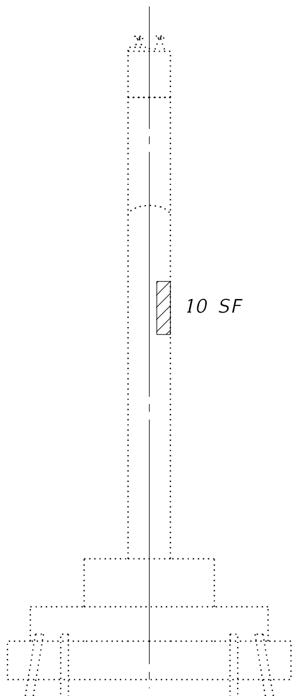


PIER 6 ELEVATION

(Looking South)

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

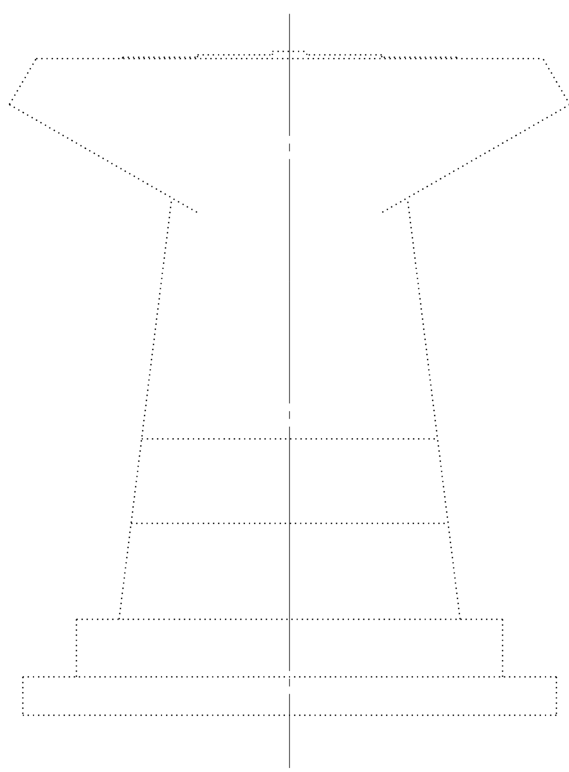
Epoxy Crack Injection (Cracks greater than or equal 1/16")

SF Square Feet

LF Linear Feet

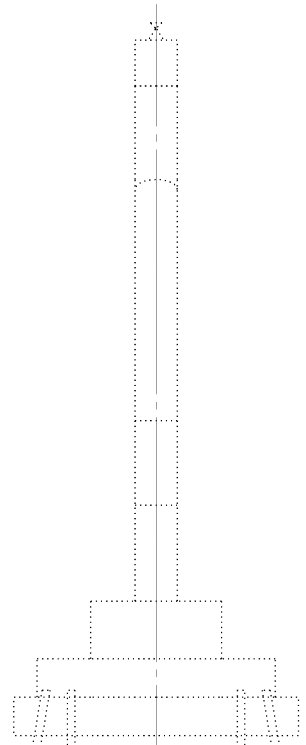
NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.



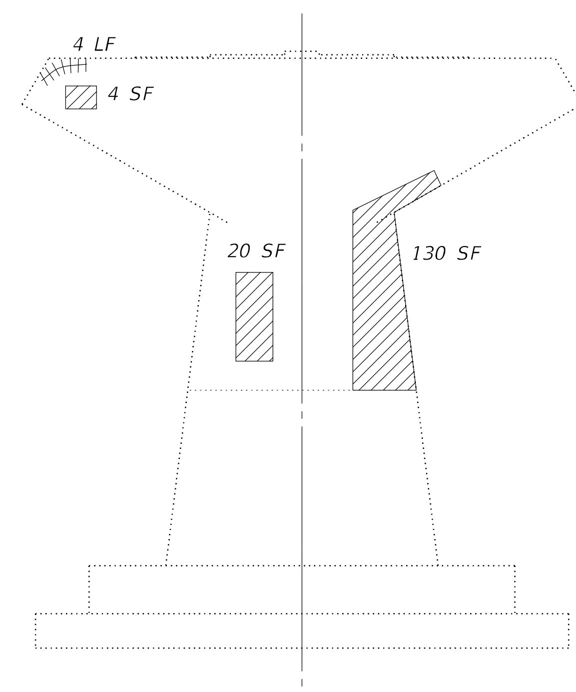
PIER 5 ELEVATION

(Looking West)



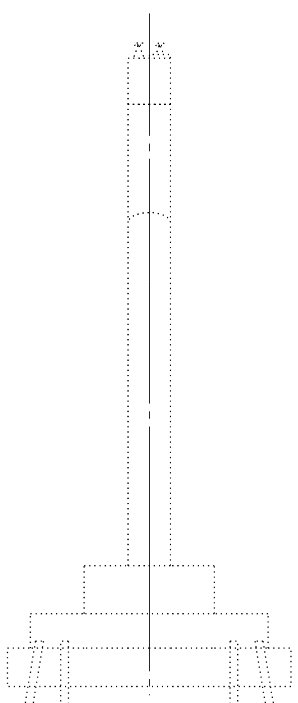
PIER 5 ELEVATION

(Looking North)



PIER 6 ELEVATION

(Looking West)



PIER 6 ELEVATION

(Looking North)

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealer	Sq. Ft.	440
Epoxy Crack Injection	Foot	4
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	164

MODEL: Default
FILE NAME: 0780001-66F08-081-REP4.dgn

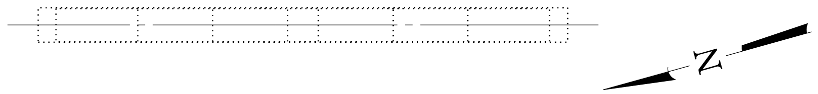
BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - I LA '	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

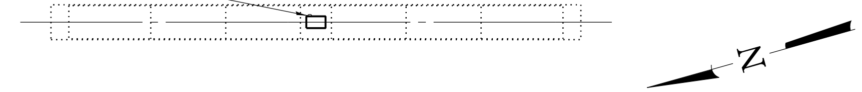
PIER REPAIRS 3
STRUCTURE NO. 078-0001
SHEET S-81 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	113
		CONTRACT NO. 66F08		
		ILLINOIS	FED. AID PROJECT	

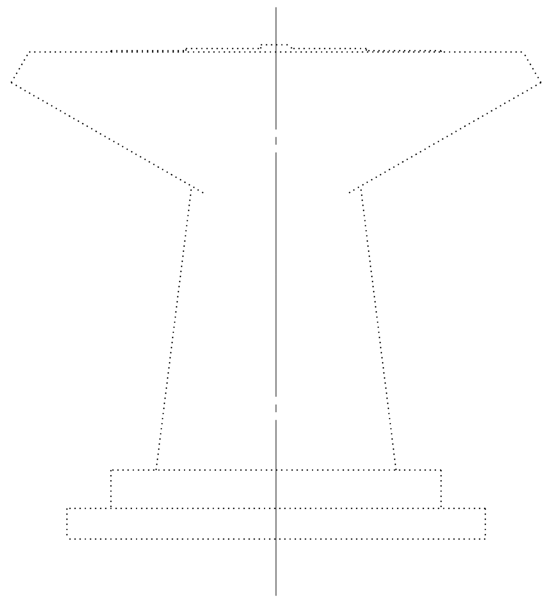
10/16/2019 3:18:49 PM



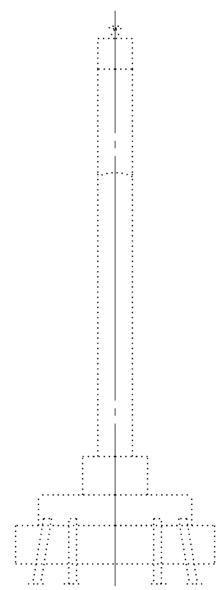
PIER 7 BEARING SEAT



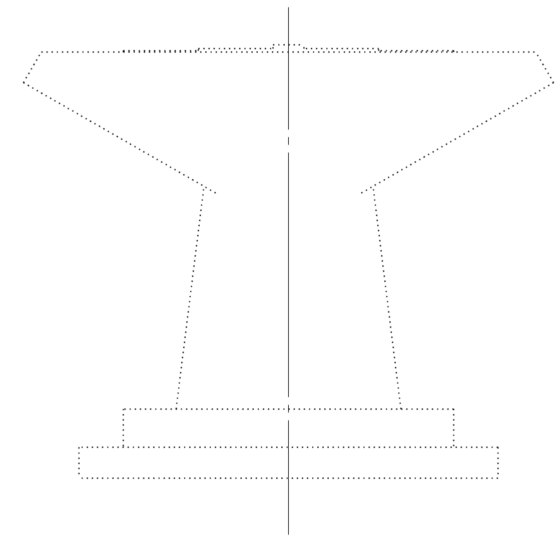
PIER 8 BEARING SEAT



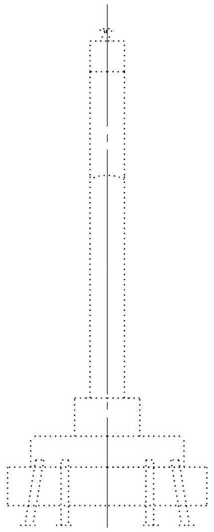
PIER 7 ELEVATION
(Looking East)



PIER 7 ELEVATION
(Looking South)



PIER 8 ELEVATION
(Looking East)



PIER 8 ELEVATION
(Looking South)

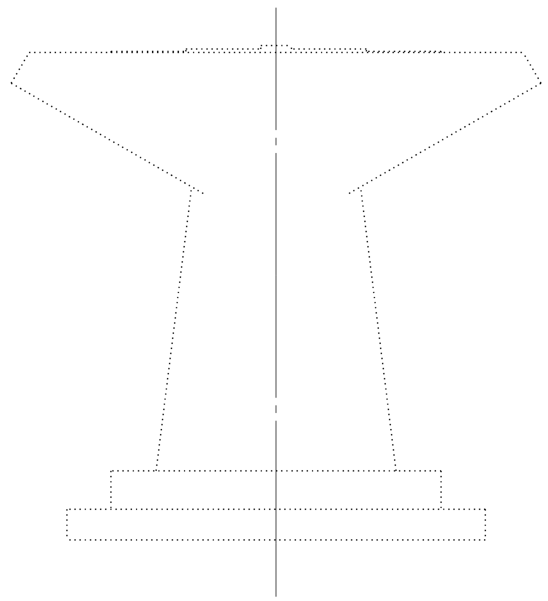
LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

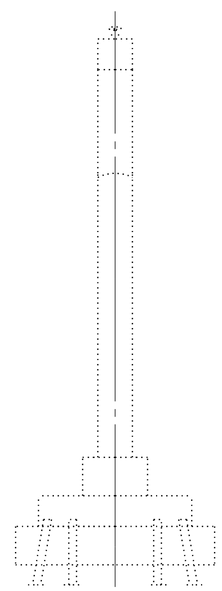
SF Square Feet

NOTES:

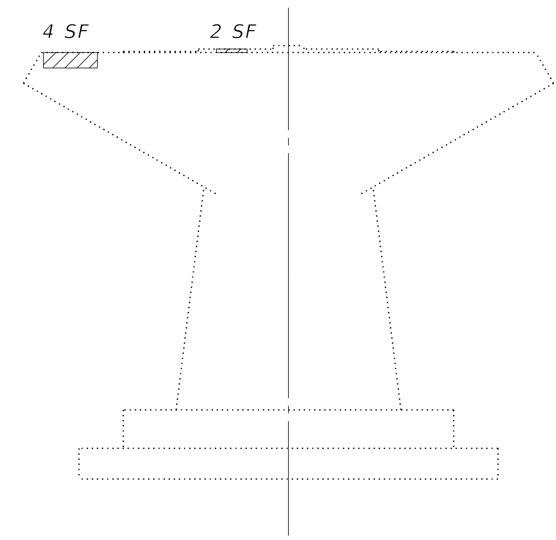
The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.



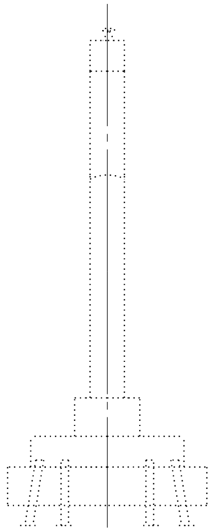
PIER 7 ELEVATION
(Looking West)



PIER 7 ELEVATION
(Looking North)



PIER 8 ELEVATION
(Looking West)



PIER 8 ELEVATION
(Looking North)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	6

MODEL: Default
FILE NAME: 0780001-66F08-082-REP5.dgn

BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - I LA	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS 4
STRUCTURE NO. 078-0001

SHEET S-82 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	114
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

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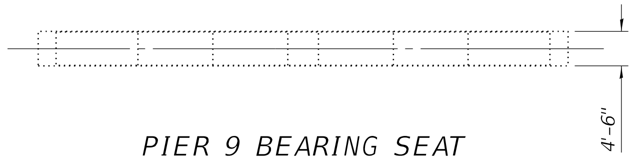
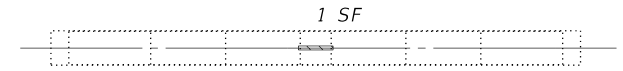
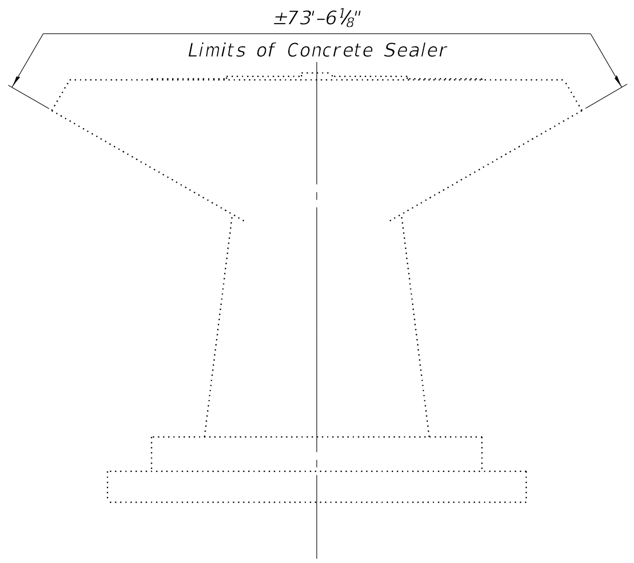


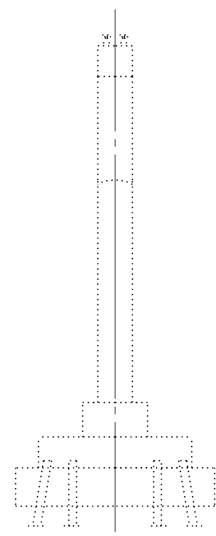
PIER 9 BEARING SEAT



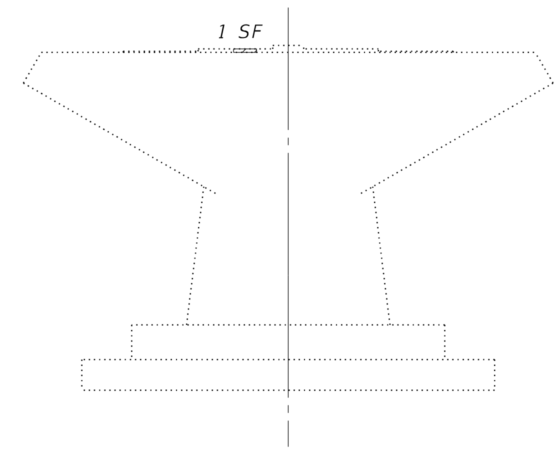
PIER 10 BEARING SEAT



PIER 9 ELEVATION
(Looking East)



PIER 9 ELEVATION
(Looking South)



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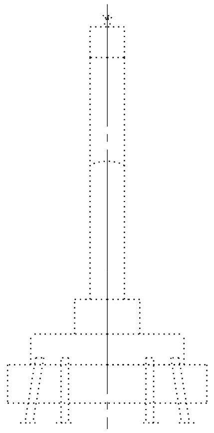
(Looking East)



PIER 10 ELEVATION
(Looking South)

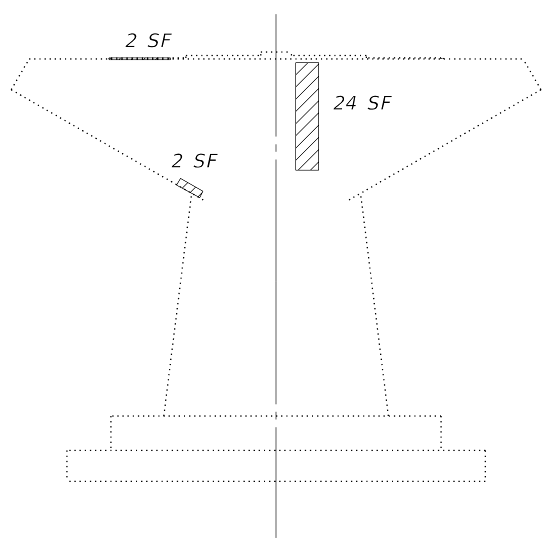
LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

SF Square Feet

NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.



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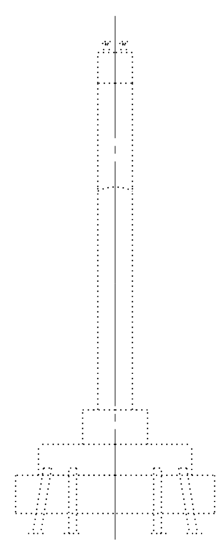
(Looking West)



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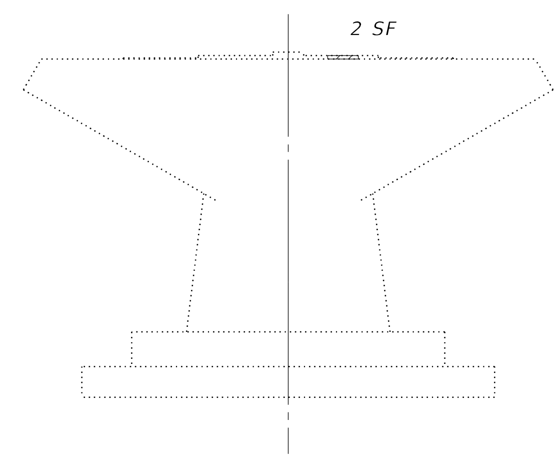
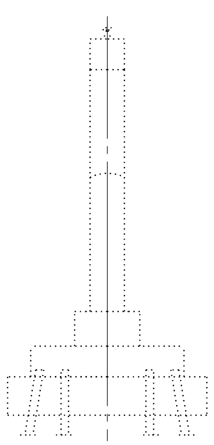


PIER 10 ELEVATION
(Looking West)



PIER 10 ELEVATION
(Looking North)

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealer	Sq. Ft.	331
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	32

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -
		CHECKED - GEK	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - I LA	REVISED -
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS 5
STRUCTURE NO. 078-0001

SHEET S-83 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	115
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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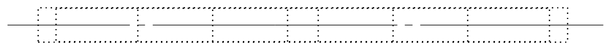
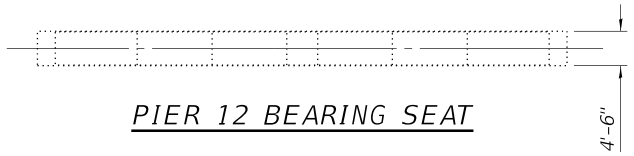
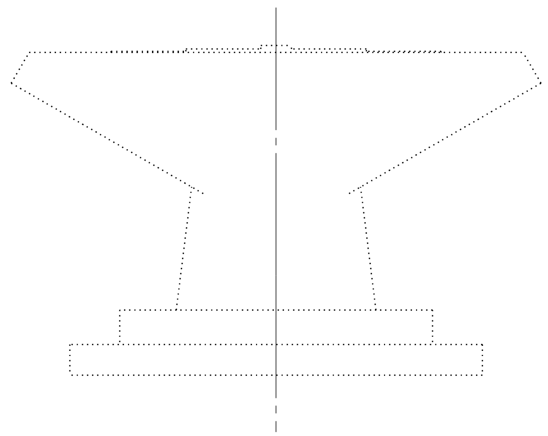


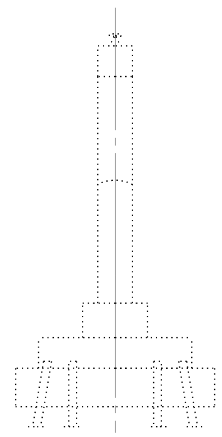
PIER 11 BEARING SEAT



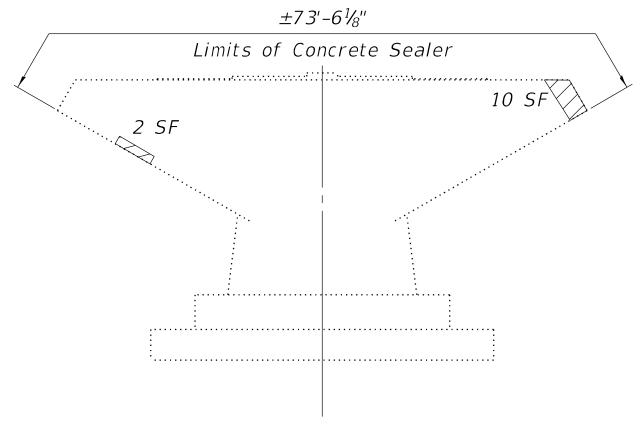
PIER 12 BEARING SEAT



PIER 11 ELEVATION
(Looking East)



PIER 11 ELEVATION
(Looking South)



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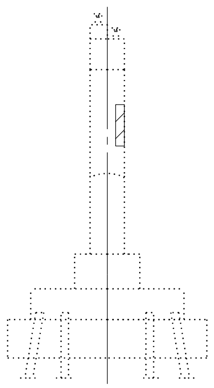
(Looking East)

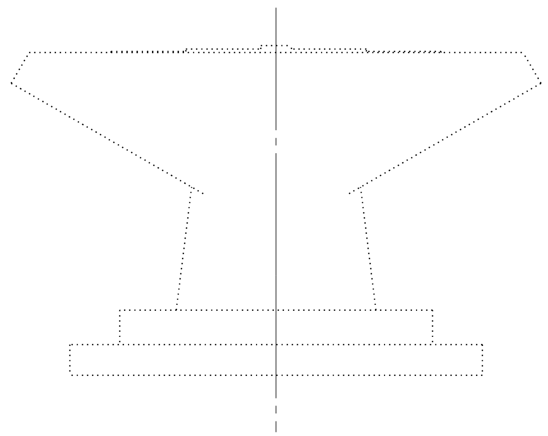


PIER 12 ELEVATION
(Looking South)

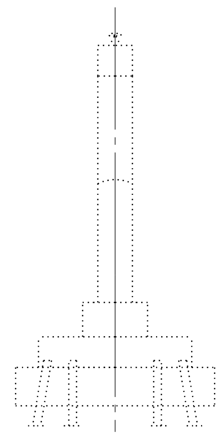
LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")

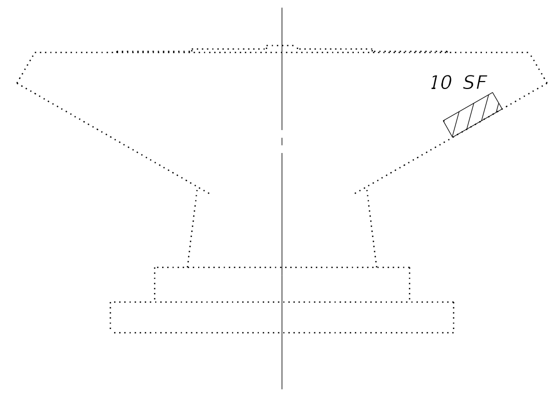
SF Square Feet



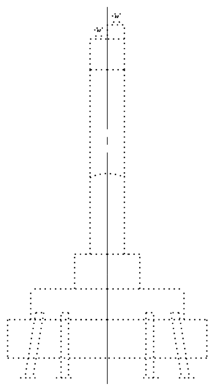
PIER 11 ELEVATION
(Looking West)



PIER 11 ELEVATION
(Looking North)



PIER 12 ELEVATION
(Looking West)



PIER 12 ELEVATION
(Looking North)

NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

BILL OF MATERIAL

Item	Unit	Total
Concrete Sealer	Sq. Ft.	331
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	22

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FILE NAME: 0780001-66F08-084-REP7.dgn

BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - LA	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS 6
STRUCTURE NO. 078-0001

SHEET S-84 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	116
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		

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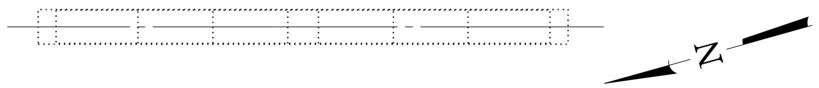
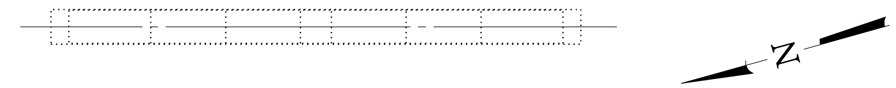


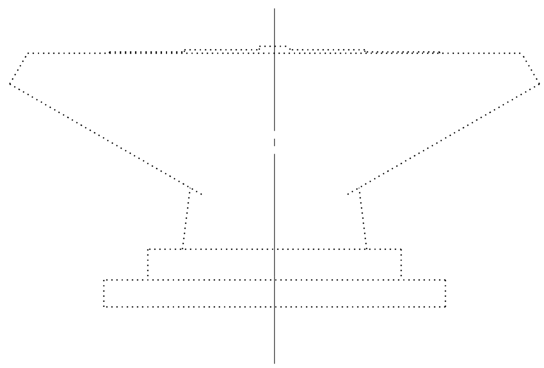
PIER 13 BEARING SEAT



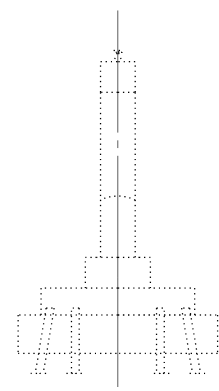
PIER 14 BEARING SEAT

NOTES:

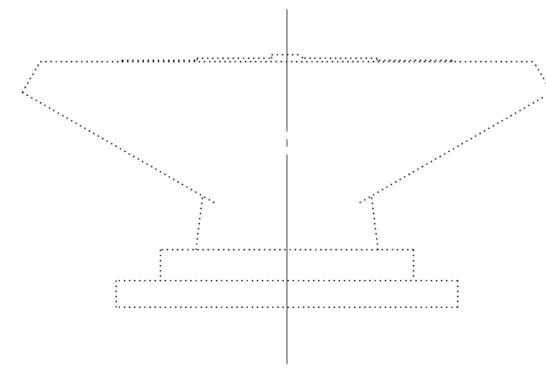
The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.



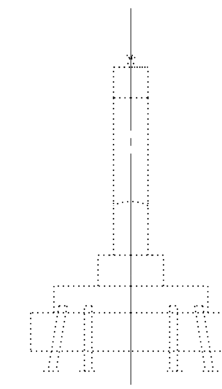
PIER 13 ELEVATION
(Looking East)



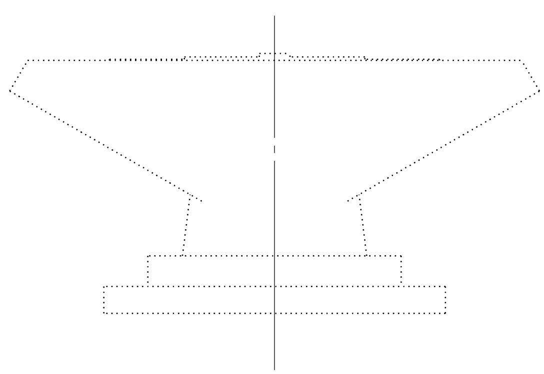
PIER 13 ELEVATION
(Looking South)



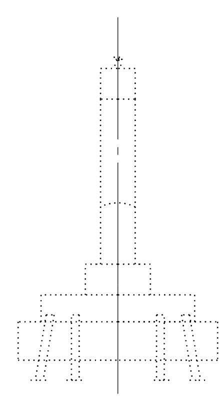
PIER 14 ELEVATION
(Looking East)



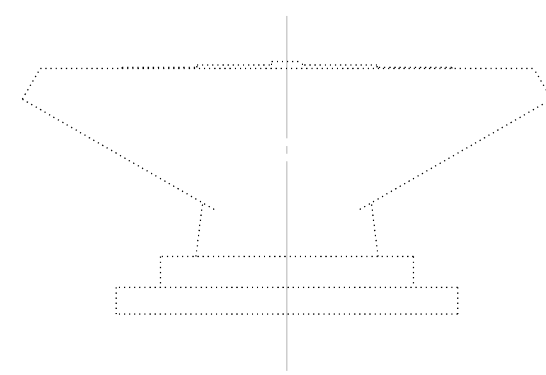
PIER 14 ELEVATION
(Looking South)



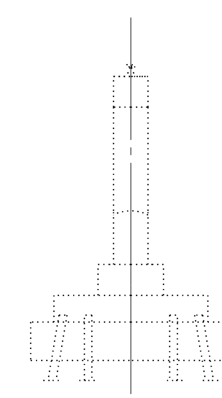
PIER 13 ELEVATION
(Looking West)



PIER 13 ELEVATION
(Looking North)



PIER 14 ELEVATION
(Looking West)



PIER 14 ELEVATION
(Looking North)

MODEL: Default
FILE NAME: 0780001-66F08-085-REP8.dgn

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER REPAIRS 7 STRUCTURE NO. 078-0001
		CHECKED - GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - I LA	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET S-85 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	117
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		

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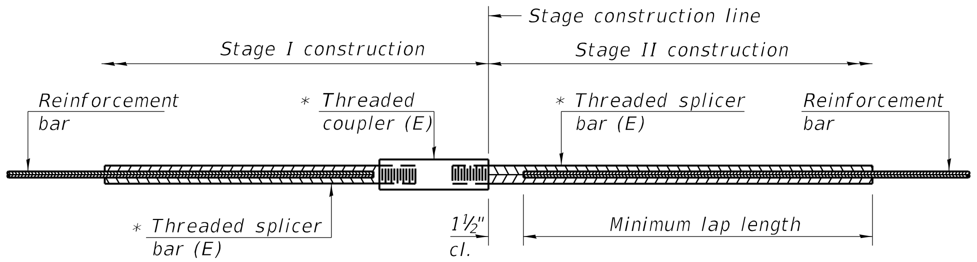
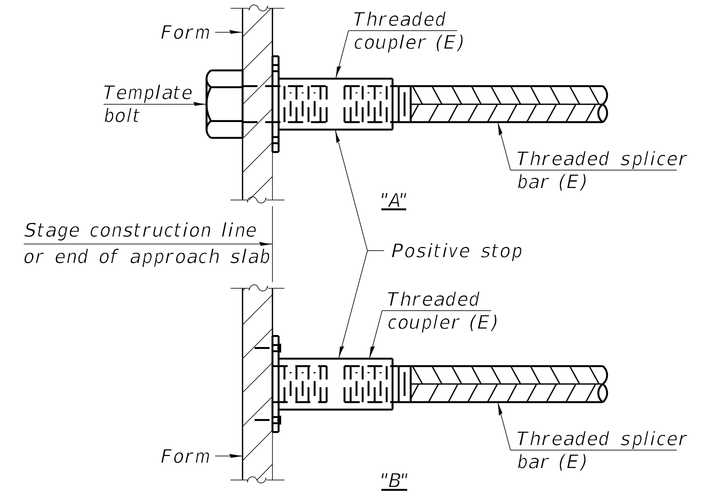


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

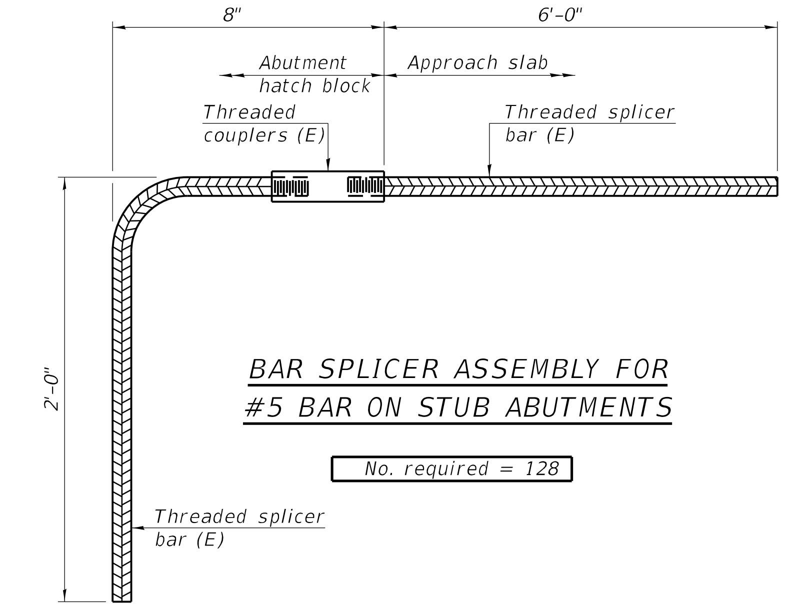
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck - Unit 3	#5	1,695	3'-6"
Deck - Unit 3	#6	19	4'-10"
Deck - Unit 4	#5	1,695	3'-6"
Deck - Unit 4	#6	22	4'-10"
Deck - Unit 5	#5	1,343	3'-6"
Deck - Unit 5	#6	19	4'-10"
E. Approach	#5	45	3'-0"
E. Approach	#8	60	4'-9"
W. Approach	#5	45	2'-0"
W. Approach	#8	60	4'-9"
E. Appr. Footing	#5	40	3'-0"
W. Appr. Footing	#5	40	3'-0"
E. Abutment	#6	6	3'-7"
W. Abutment	#6	6	3'-7"



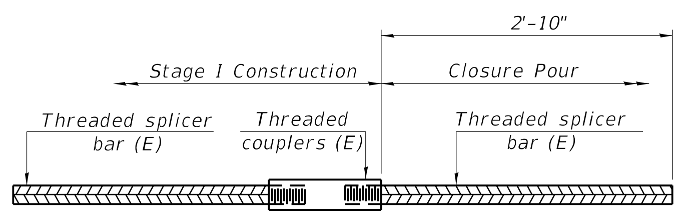
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



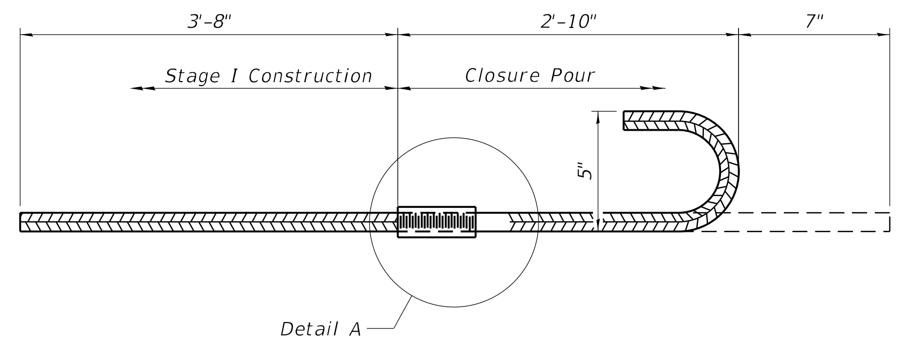
BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 128



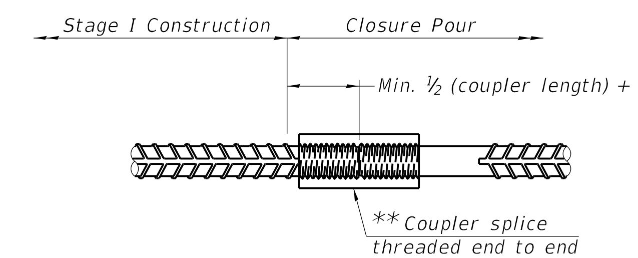
BAR SPLICER ASSEMBLY FOR BARS IN CLOSURE POUR

Location	Bar size	No. assemblies required	Minimun Lap Length (Stage 1 Construction)
Deck - Unit 1	#5	1,245	3'-6"
Deck - Unit 1	#6	19	4'-10"
Deck - Unit 2	#5	1,789	3'-6"
Deck - Unit 2	#6	22	4'-10"



BAR SPLICER ASSEMBLY FOR BOTTOM #5 BAR IN CLOSURE POUR

Location	Bar size	No. assemblies required
Deck - Unit 1	#5	1,019
Deck - Unit 2	#5	1,463



DETAIL A

**The bar splicer assembly shall allow completion of the splice without turning of the hook bars. The Stage II (Closure Pour) splice bar shall be threaded such that the entire coupler can be threaded onto the splice bar.

NOTES:

1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
4. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

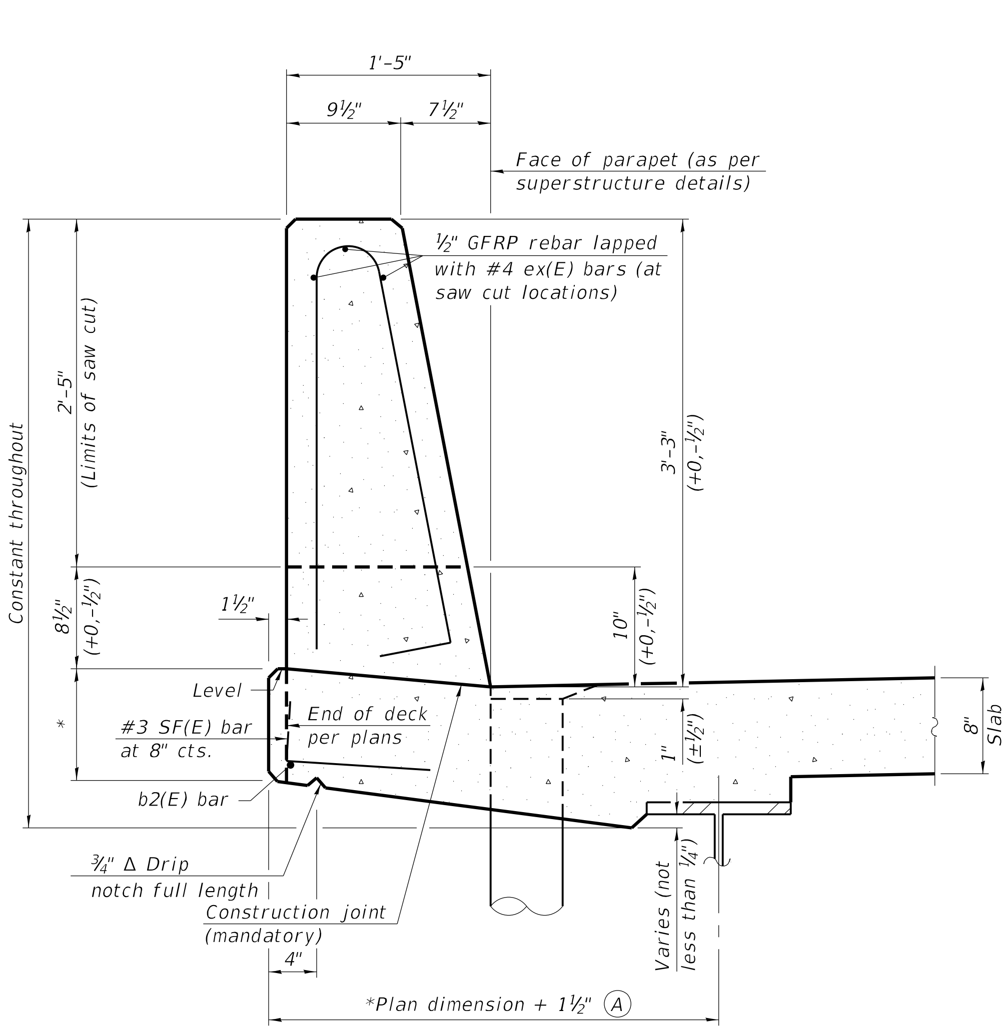
GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.

Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

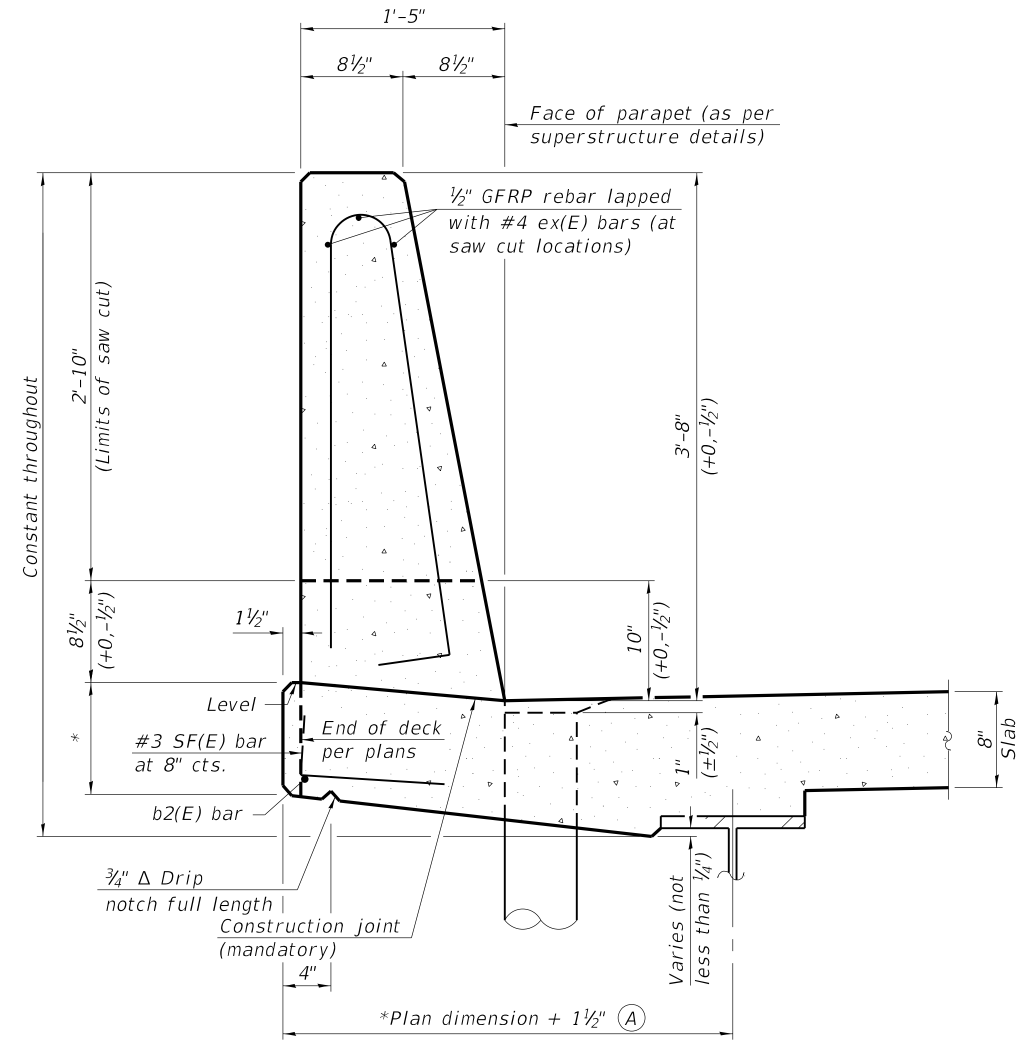
Steel superstructure shown. Other superstructure types similar.



39" CONSTANT-SLOPE PARAPET SECTION

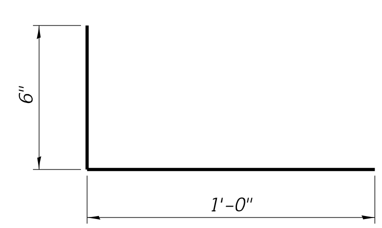
(Showing dimensions, d(E), and ½" Ø GFRP rebar)

*See Superstructure Details.

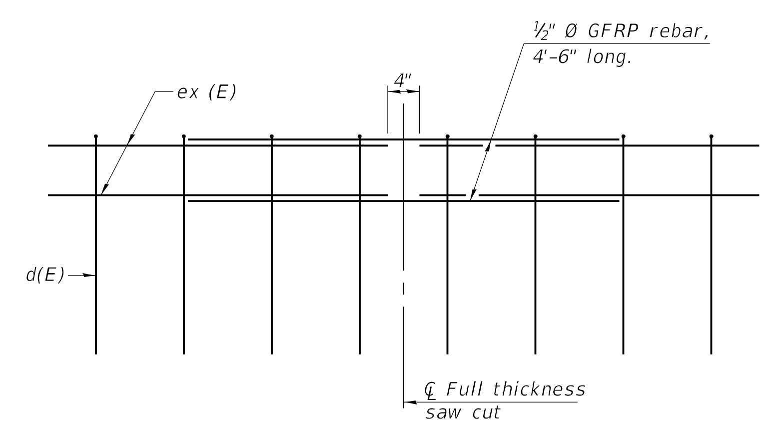


44" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 39-44 1-14-2019

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE PARAPET SLIPFORMING OPTION STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET S-87 OF S-87 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	119
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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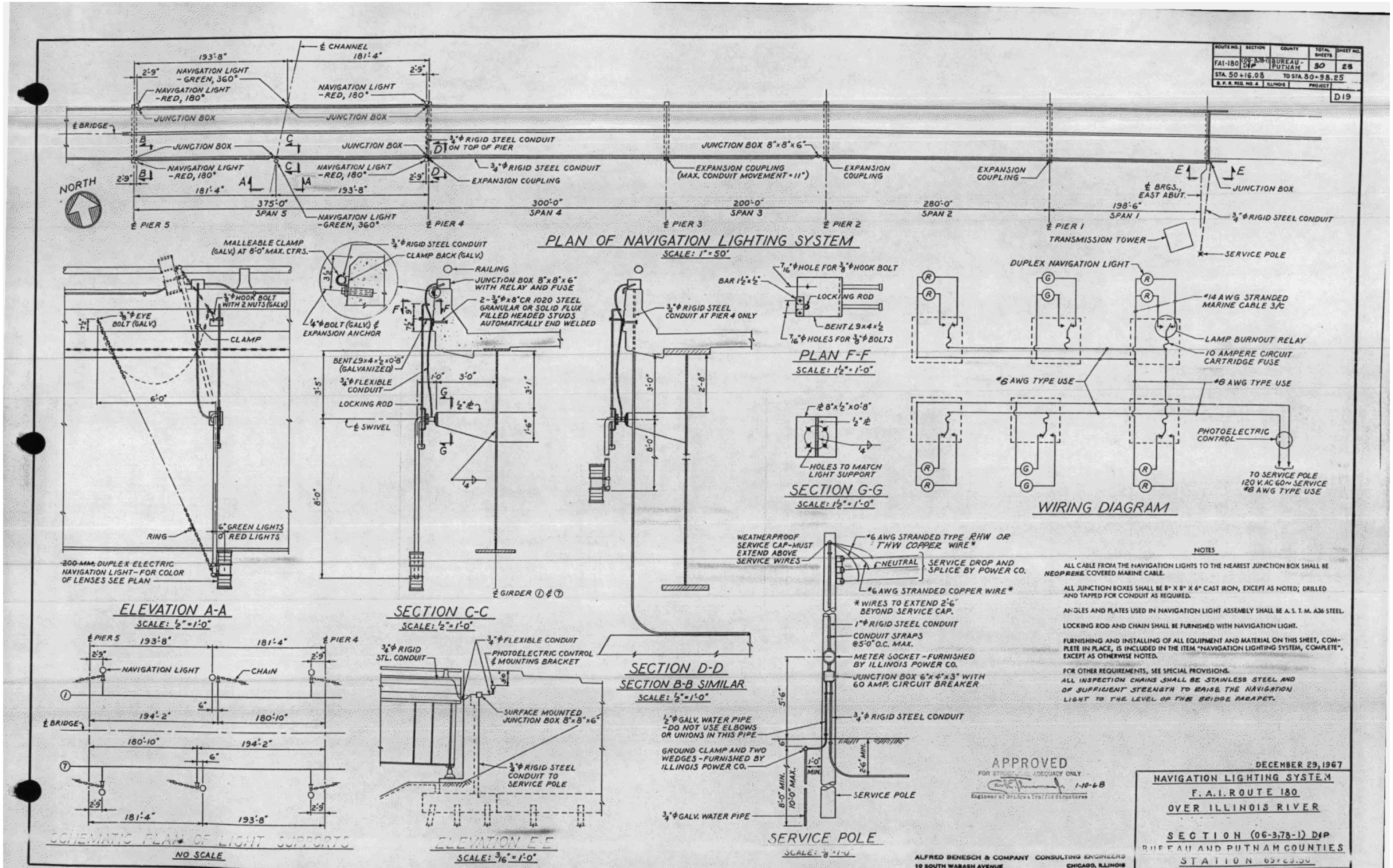

NOTES

ALL CABLE FROM THE NAVIGATION LIGHTS TO THE NEAREST JUNCTION BOX SHALL BE NEOPRENE COVERED MARINE CABLE.

ALL JUNCTION BOXES SHALL BE 8" X 8" X 6" CAST IRON, EXCEPT AS NOTED; DRILLED AND TAPPED FOR CONDUIT AS REQUIRED.

ANGLES AND PLATES USED IN NAVIGATION LIGHT ASSEMBLY SHALL BE A. S. T. M. A36 STEEL.

LOCKING ROD AND CHAIN SHALL BE FURNISHED WITH NAVIGATION LIGHT.

FURNISHING AND INSTALLING OF ALL EQUIPMENT AND MATERIAL ON THIS SHEET, COMPLETE IN PLACE, IS INCLUDED IN THE ITEM "NAVIGATION LIGHTING SYSTEM, COMPLETE", EXCEPT AS OTHERWISE NOTED.

FOR OTHER REQUIREMENTS, SEE SPECIAL PROVISIONS.

ALL INSPECTION CHAINS SHALL BE STAINLESS STEEL AND OF SUFFICIENT STRENGTH TO RAISE THE NAVIGATION LIGHT TO THE LEVEL OF THE BRIDGE PARAPET.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-180	(06-3,78-1) D&P	BUREAU-PUTNAM	30	28

STA. 50+16.08 TO STA. 80+98.25

D19

APPROVED FOR STRUCTURAL ADEQUACY ONLY 1-10-68
Engineer of Bridges & Traffic Structures

DECEMBER 29, 1967

NAVIGATION LIGHTING SYSTEM
F. A. I. ROUTE 180
OVER ILLINOIS RIVER
SECTION (06-3,78-1) D&P
BUREAU AND PUTNAM COUNTIES
STATION 65+29.50

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE CHICAGO, ILLINOIS

FOR INFORMATION ONLY

MODEL: Default
FILE NAME: 0780001-66F08-exist01.dgn

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - NAVIGATIONAL LIGHTING SYSTEM STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET EX-01 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	120

CONTRACT NO. 66F08

ILLINOIS FED. AID PROJECT

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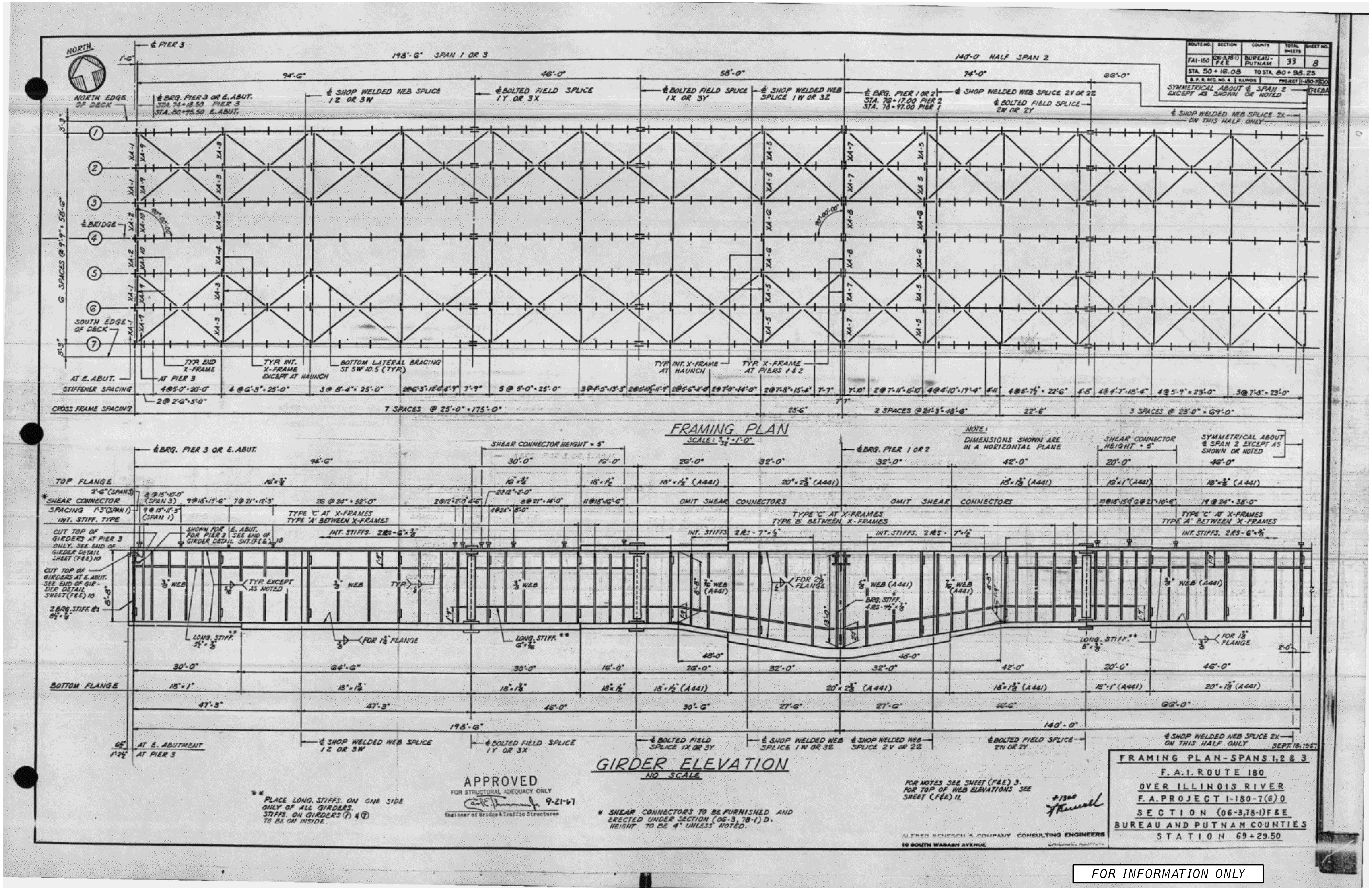

FOR INFORMATION ONLY

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

BURNS McDONNELL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - SPANS 1, 2 & 3 - FRAMING PLAN
STRUCTURE NO. 078-0001

SHEET EX-02 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	121
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

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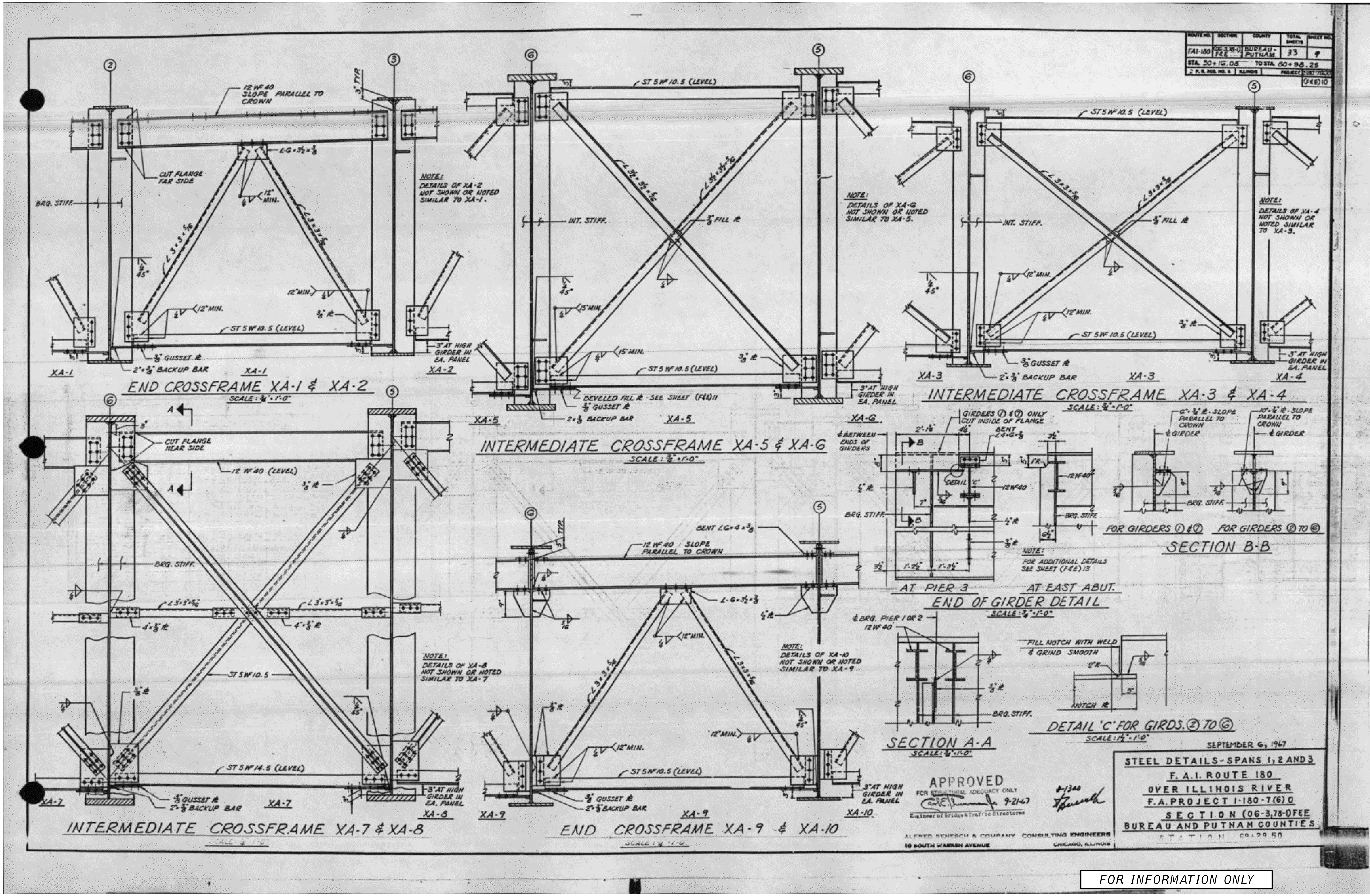

FOR INFORMATION ONLY

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BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - SPANS 1, 2 & 3 - STEEL DETAILS 1 STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET EX-03 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	122
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		

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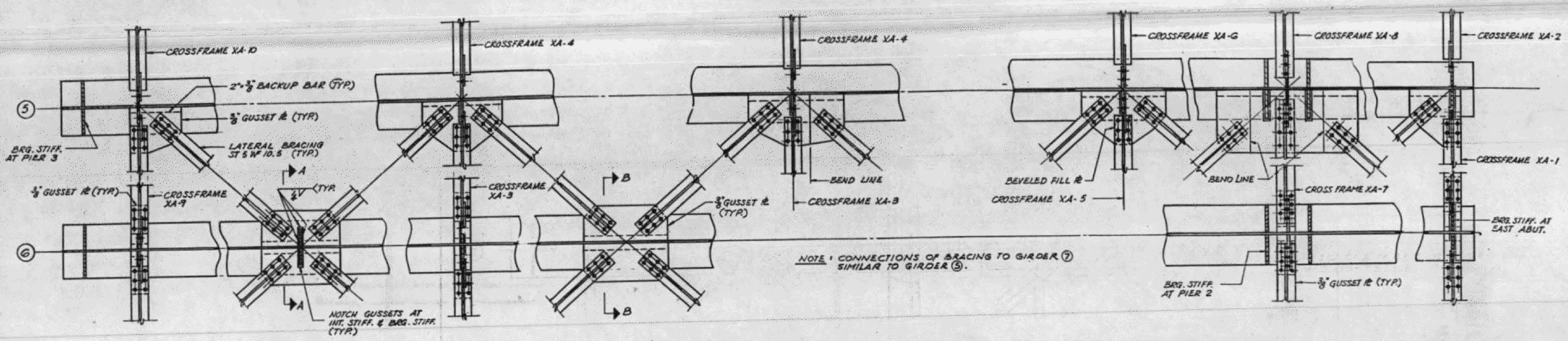
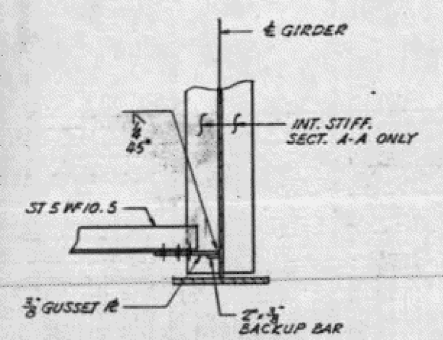
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-180	(06-3,78-1) F&E	BUREAU-PUTNAM	33	10

STA. 50+16.08 TO STA. 80+98.25

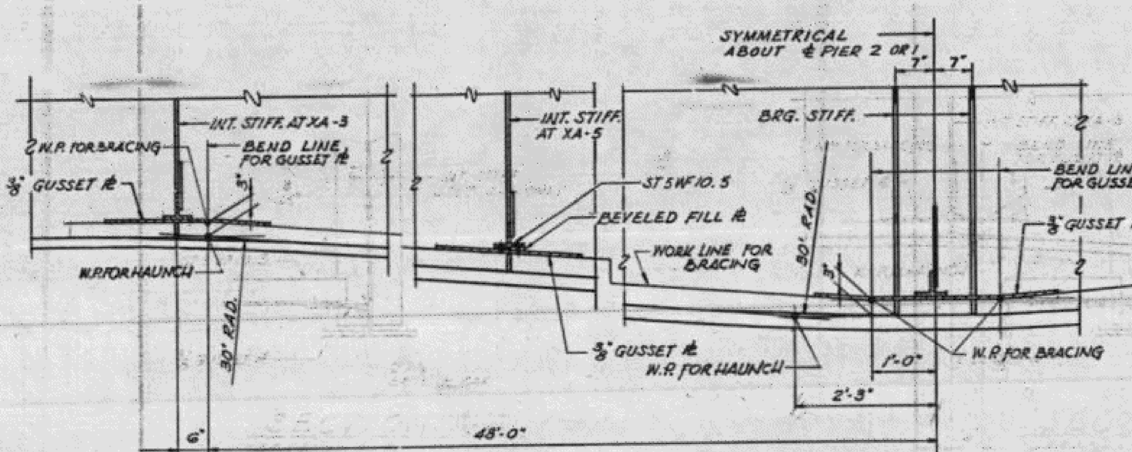
B.P.R. REG. NO. 4 | ILLINOIS | PROJECT I-180-7(6) (F&E) 11



LATERAL BRACING CONNECTIONS
SCALE: 3/4"=1'-0"



SECTION A-A
SECTION B-B SIMILAR
SCALE: 3/4"=1'-0"



DETAIL AT HAUNCH
SCALE: 3/4"=1'-0"

TOP OF WEB ELEVATIONS FOR FABRICATION ONLY (UNDEFLECTED GIRDERS)

LOCATION \ GIRDER	1 & 7	2 & 6	3 & 5	4
℄ BRG. PIER 3	524.465	524.618	524.770	524.922
℄ SHOP SPLICE 3W	524.494	524.646	524.796	524.951
℄ FIELD SPLICE 3X	524.271	524.424	524.576	524.728
℄ FIELD SPLICE 3Y	523.722	523.874	524.026	524.177
℄ SHOP SPLICE 3Z	523.511	523.664	523.816	523.968
℄ BRG. PIER 2	523.321	523.474	523.626	523.778
℄ SHOP SPLICE 2V	523.135	523.287	523.440	523.592
℄ FIELD SPLICE 2W	522.811	522.963	523.115	523.268
℄ SHOP SPLICE 2X	522.442	522.594	522.746	522.899
℄ FIELD SPLICE 2Y	521.050	521.202	521.354	521.507
℄ SHOP SPLICE 2Z	520.130	520.282	520.435	520.587
℄ BRG. PIER 1	519.586	519.738	519.891	520.043
℄ SHOP SPLICE 1W	519.042	519.194	519.347	519.499
℄ FIELD SPLICE 1X	518.439	518.591	518.743	518.896
℄ FIELD SPLICE 1Y	517.761	517.914	518.066	518.218
℄ SHOP SPLICE 1Z	516.723	516.875	517.027	517.180
℄ BRG. E. ABUTMENT	515.433	515.586	515.738	515.890

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
9-21-67
Engineer of Bridge & Traffic Structures

#1500

SEPTEMBER 6, 1967

STEEL DETAILS - SPANS 1, 2 AND 3
F.A.I. ROUTE 180
OVER ILLINOIS RIVER
F.A. PROJECT I-180-7(6)0
SECTION (06-3,78-1)F&E
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE CHICAGO, ILLINOIS

FOR INFORMATION ONLY

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

BURNS McDONNELL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - SPANS 1, 2 & 3 - STEEL DETAILS 2
STRUCTURE NO. 078-0001
SHEET EX-04 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	123

CONTRACT NO. 66F08
ILLINOIS FED. AID PROJECT

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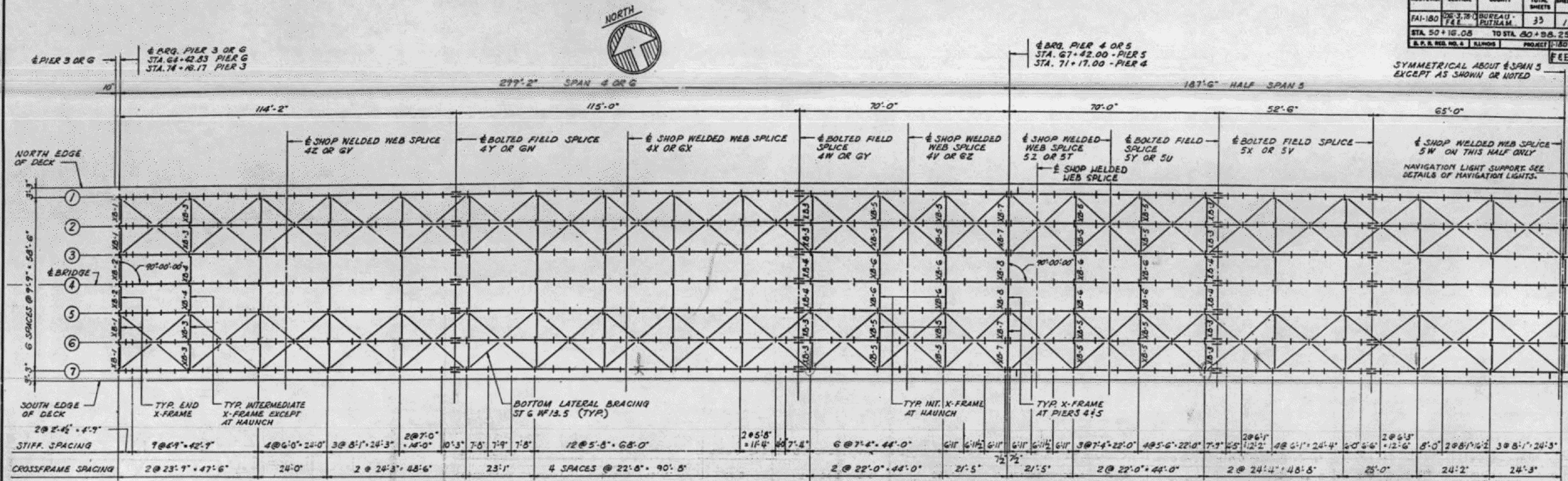
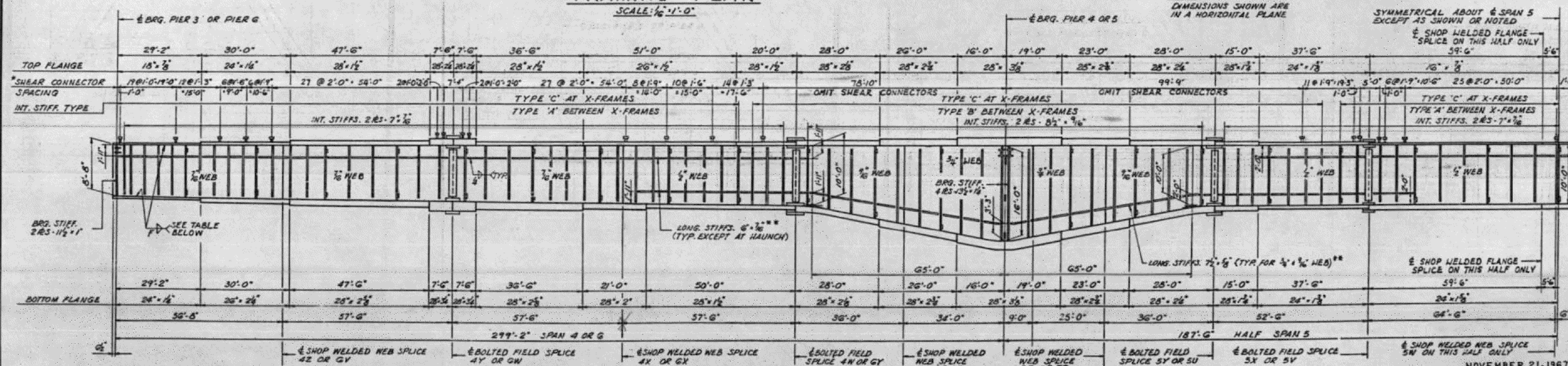


FRAMING PLAN

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

NOTE: DIMENSIONS SHOWN ARE IN A HORIZONTAL PLANE



GIRDER ELEVATION

NO SCALE

F	FLANGE THICKNESS
5/16	1 1/2" MAX.
3/8	2 1/2" MAX.
1/2	OVER 2 1/2"

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
10-3-67
Engineer of Bridge & Traffic Structures

NOTES:
FOR TOP OF WEB ELEVATIONS SEE SHEET (F&E) 19.
ALL GIRDER WEB PLATES AND FLANGE PLATES TO BE A441 STEEL.
FOR OTHER NOTES, SEE SHEET (F&E) 3.

** LONGITUDINAL STIFFENERS TO BE ON 1 SIDE ONLY OF ALL GIRDERS.STIFFS.

* SHEAR CONNECTORS TO BE FURNISHED AND ERECTED UNDER SECTION (06-3,78-1)D.

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS

NOVEMBER 21, 1967

FRAMING PLAN-SPANS 4,5 & 6
F.A.I. ROUTE 180
OVER ILLINOIS RIVER
F.A. PROJECT I-180-7(6)0
SECTION (06-3,78-1)F&E
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-180	(06-3,78-1) F&E	BUREAU - PUTNAM	33	11

STA. 50+16.08 TO STA. 80+58.25

F&E 17

FOR INFORMATION ONLY

MODEL: Default
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PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

BURNS McDONNELL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - SPANS 4, 5 & 6 - FRAMING PLAN
STRUCTURE NO. 078-0001

SHEET EX-05 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	124

CONTRACT NO. 66F08

ILLINOIS FED. AID PROJECT

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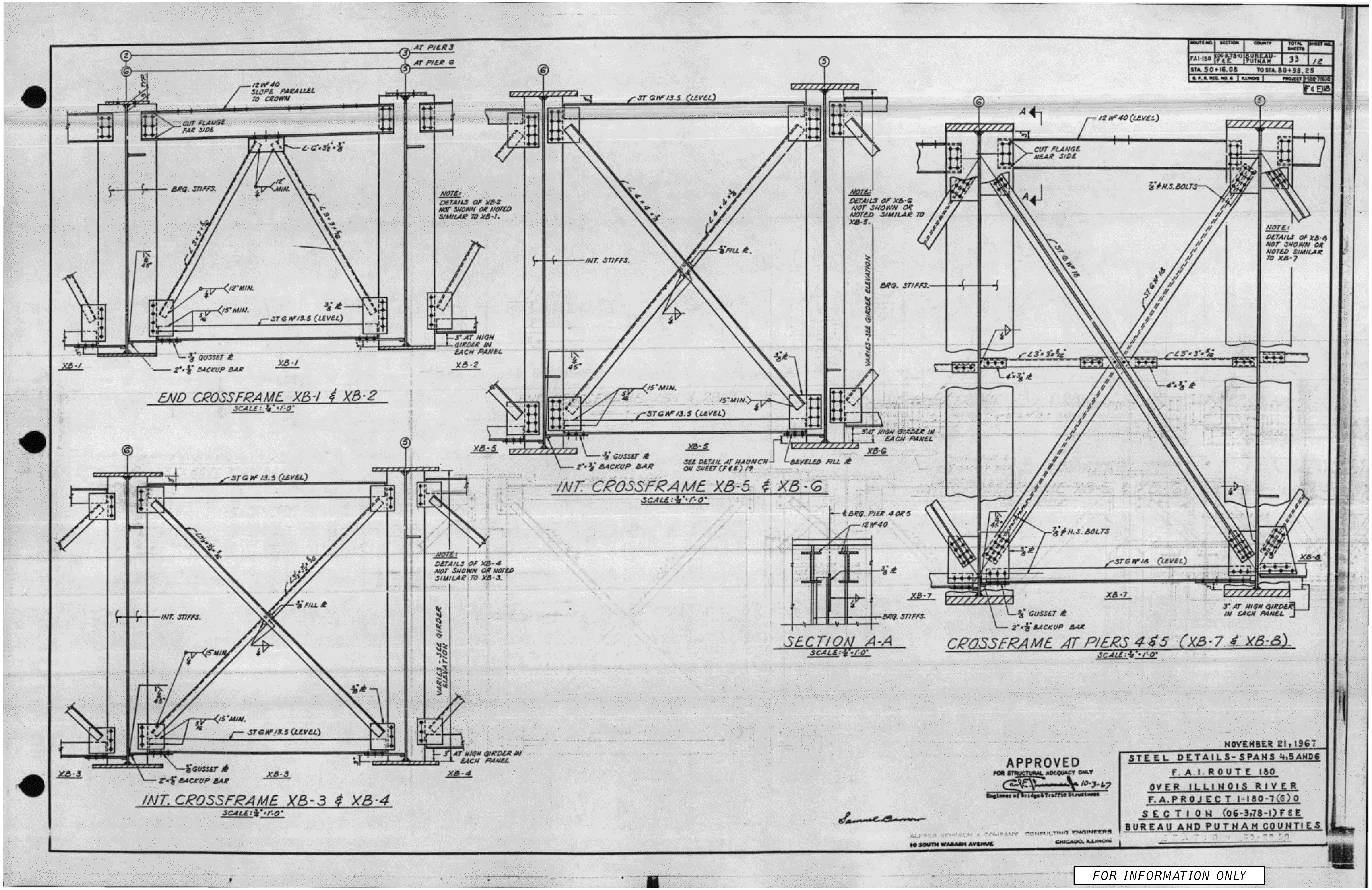

FOR INFORMATION ONLY

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BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -
	CHECKED - TG / GEK	REVISED -
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - SPANS 4, 5 & 6 - STEEL DETAILS 1
STRUCTURE NO. 078-0001

SHEET EX-06 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	125

CONTRACT NO. 66F08

ILLINOIS FED. AID PROJECT

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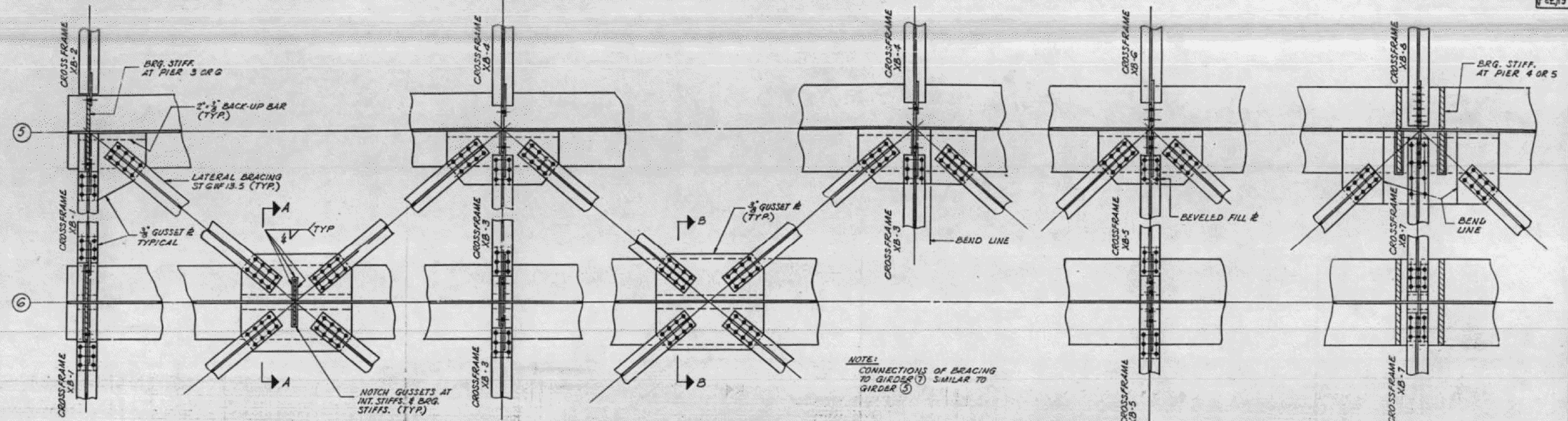
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I-180	(06-3,78-1) F&E	BUREAU-PUTNAM	33	13

STA. 50+16.08 TO STA. 80+98.25

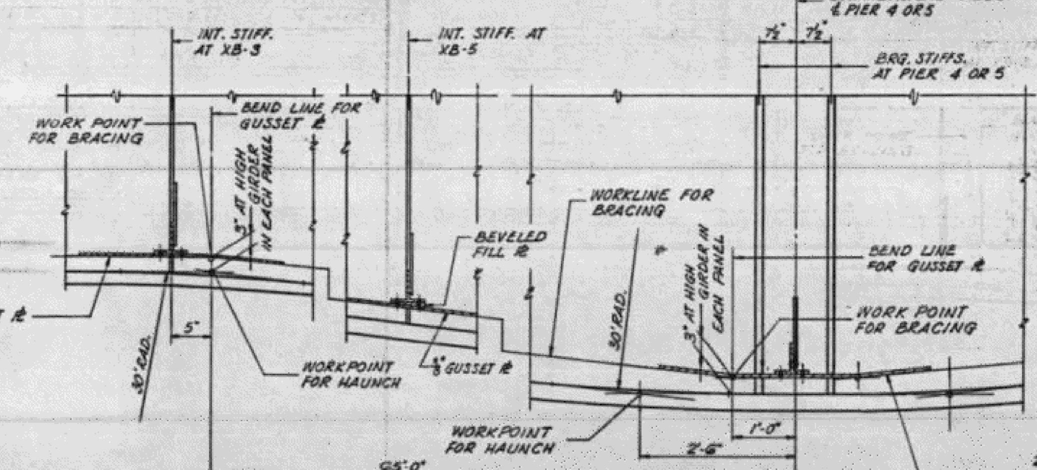
B. P. R. REG. NO. 4 · ILLINOIS · PROJECT I-180-7(6)0

F&E 19



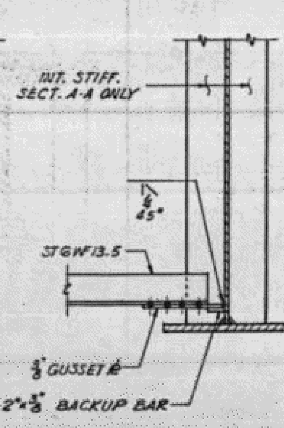
LATERAL BRACING CONNECTIONS

SCALE: ¾" = 1'-0"



DETAIL AT HAUNCH

SCALE: ¾" = 1'-0"



SECTION A-A

SECTION B-B SIMILAR

TOP OF WEB ELEVATIONS FOR FABRICATION ONLY

(UNDEFLECTED GIRDERS)

LOCATION \ GIRDER	1 & 7	2 & 6	3 & 5	4
℄ BRG. PIER 6	509.148	509.300	509.453	509.605
℄ SHOP SPLICE 6V	511.275	511.463	511.616	511.768
℄ FIELD SPLICE 6W	513.017	513.211	513.364	513.516
℄ SHOP SPLICE 6X	514.643	514.843	514.995	515.147
℄ FIELD SPLICE 6Y	515.631	515.783	515.936	516.088
℄ SHOP SPLICE 6Z	516.385	516.537	516.690	516.842
℄ PIER 5	517.096	517.248	517.401	517.553
℄ SHOP SPLICE 5T	517.807	517.959	518.112	518.264
℄ FIELD SPLICE 5U	518.560	518.712	518.865	519.017
℄ FIELD SPLICE 5V	519.926	520.115	520.268	520.420
℄ SHOP SPLICE 5W	521.237	521.436	521.589	521.741
℄ FIELD SPLICE 5X	521.988	522.177	522.330	522.482
℄ FIELD SPLICE 5Y	522.288	522.440	522.593	522.745
℄ SHOP SPLICE 5Z	522.677	522.829	522.982	523.134
℄ PIER 4	523.045	523.197	523.350	523.502
℄ SHOP SPLICE 4V	523.412	523.564	523.717	523.869
℄ FIELD SPLICE 4W	523.801	523.953	524.106	524.258
℄ SHOP SPLICE 4X	524.638	524.837	524.990	525.142
℄ FIELD SPLICE 4Y	524.836	525.030	525.183	525.335
℄ SHOP SPLICE 4Z	524.903	525.091	525.244	525.396
℄ BRG. PIER 3	524.453	524.611	524.764	524.916

NOVEMBER 21, 1967

STEEL DETAILS - SPANS 4, 5 AND 6
F.A.I. ROUTE 180
OVER ILLINOIS RIVER
F.A. PROJECT I-180-7(6)0
SECTION (06-3,78-1) F&E
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
10-3-67
Engineer of Bridge & Traffic Structures

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS

FOR INFORMATION ONLY

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BURNS McDONNELL

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	CHECKED - TG / GEK	REVISED -
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PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - SPANS 4, 5 & 6 - STEEL DETAILS 2
STRUCTURE NO. 078-0001

SHEET EX-07 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	126
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

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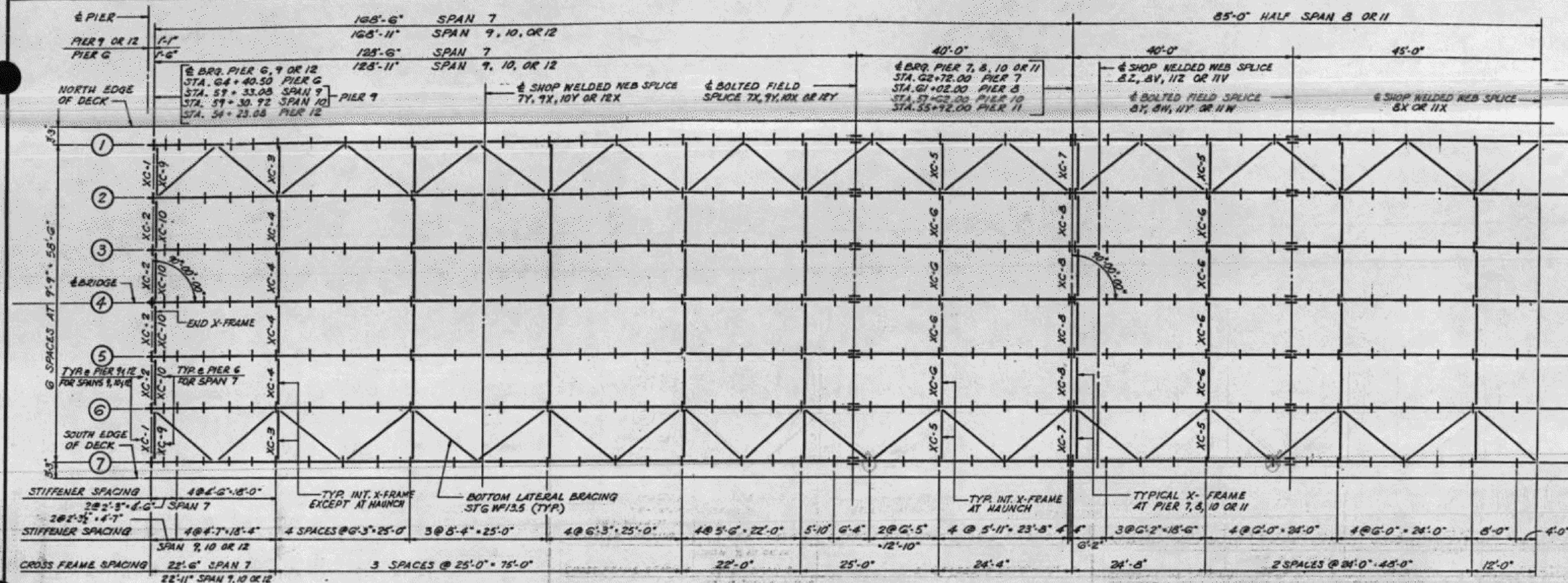


FRAMING PLAN

SCALE: 3/32" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE IN A HORIZONTAL PLANE.

SYMMETRICAL ABOUT ℄ SPAN 8 OR 11 EXCEPT AS SHOWN OR NOTED

TOP OF WEB ELEVATIONS FOR FABRICATION ONLY

(UNDEFLECTED GIRDERS)

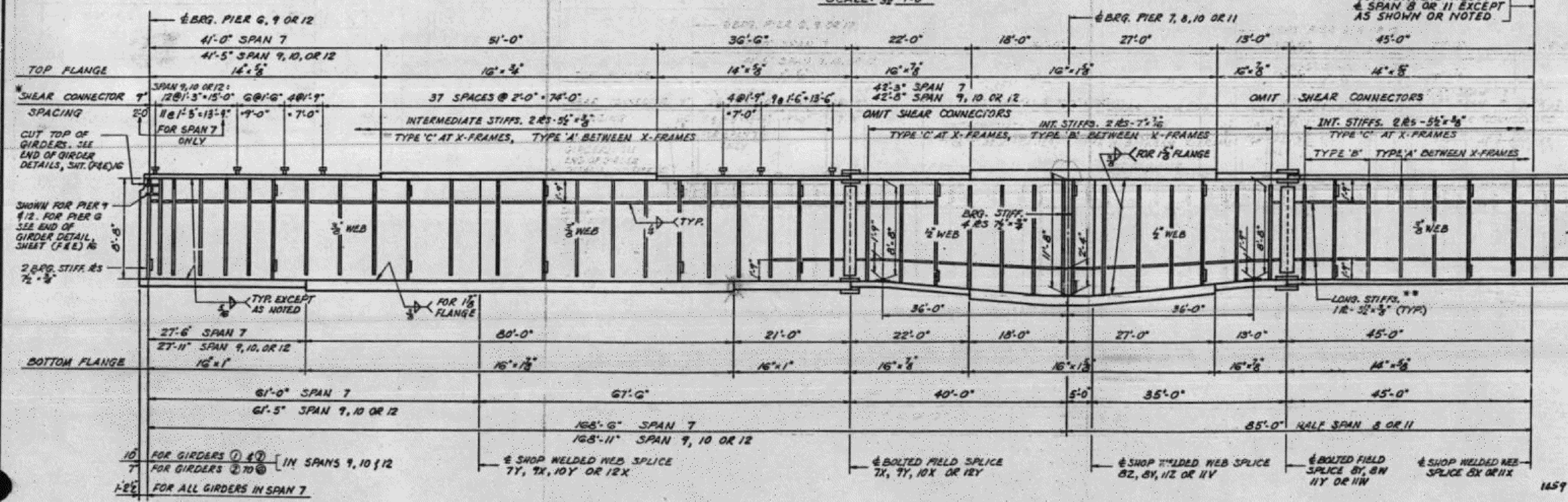
SPANS 7, 8 & 9

LOCATION \ GIRDER	1 & 7	2 & 6	3 & 5	4
℄ BRG. PIER 9	493.802	493.958	494.104	494.260
℄ SHOP SPLICE 9X	495.954	496.110	496.256	496.412
℄ FIELD SPLICE 9Y	497.744	497.900	498.046	498.202
℄ BRG. PIER 8	498.850	499.006	499.152	499.308
℄ SHOP SPLICE 8V	498.989	499.145	499.291	499.447
℄ FIELD SPLICE 8W	499.957	500.113	500.259	500.416
℄ SHOP SPLICE 8X	501.453	501.609	501.755	501.911
℄ FIELD SPLICE 8Y	502.657	502.813	502.959	503.115
℄ SHOP SPLICE 8Z	503.789	503.945	504.091	504.247
℄ BRG. PIER 7	503.950	504.106	504.252	504.408
℄ FIELD SPLICE 7X	505.244	505.400	505.546	505.702
℄ SHOP SPLICE 7Y	507.504	507.660	507.806	507.962
℄ BRG. PIER 6	509.089	509.245	509.391	509.547

SPANS 10, 11 & 12

LOCATION \ GIRDER	1 & 7	2 & 6	3 & 5	4
℄ BRG. PIER 12	478.567	478.723	478.869	479.025
℄ SHOP SPLICE 12X	480.654	480.810	480.956	481.112
℄ FIELD SPLICE 12Y	482.444	482.600	482.746	482.902
℄ BRG. PIER 11	483.550	483.706	483.852	484.008
℄ SHOP SPLICE 11V	483.689	483.845	483.991	484.147
℄ FIELD SPLICE 11W	484.657	484.813	484.959	484.115
℄ SHOP SPLICE 11X	486.158	486.309	486.455	486.611
℄ FIELD SPLICE 11Y	487.357	487.513	487.659	487.815
℄ SHOP SPLICE 11Z	488.489	488.645	488.791	488.947
℄ BRG. PIER 10	488.650	488.806	488.952	489.108
℄ FIELD SPLICE 10X	489.944	490.100	490.246	490.402
℄ SHOP SPLICE 10Y	492.204	492.360	492.506	492.662
℄ BRG. PIER 9	493.802	493.958	494.104	494.260

FOR NOTES, SEE SHEET (F&E) 3.



GIRDER ELEVATION

NO SCALE

* SHEAR CONNECTORS TO BE FURNISHED AND ERECTED UNDER SECTION (06-3, 78-1)D.

** LONGITUDINAL STIFFENERS TO BE ON 1 SIDE ONLY OF ALL GIRDERS. STIFFENERS ON GIRDERS ① & ⑦ TO BE ON INSIDE.

APPROVED 9-27-67

SEPTEMBER 27, 1967

FRAMING PLAN - SPANS 7 TO 12
F.A.I. ROUTE 180
OVER ILLINOIS RIVER
F.A. PROJECT I-180-7(6)0
SECTION (06-3,78-1)F&E
BUREAU AND PUTNAM COUNTIES

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE CHICAGO, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-180	(06-3,78-1) F&E	BUREAU-PUTNAM	33	14

STA. 50+16.08 TO STA. 80+98.25

F&E 14

FOR INFORMATION ONLY

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - SPANS 7 THRU 12 - FRAMING PLAN STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET EX-08 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	127

CONTRACT NO. 66F08

ILLINOIS FED. AID PROJECT

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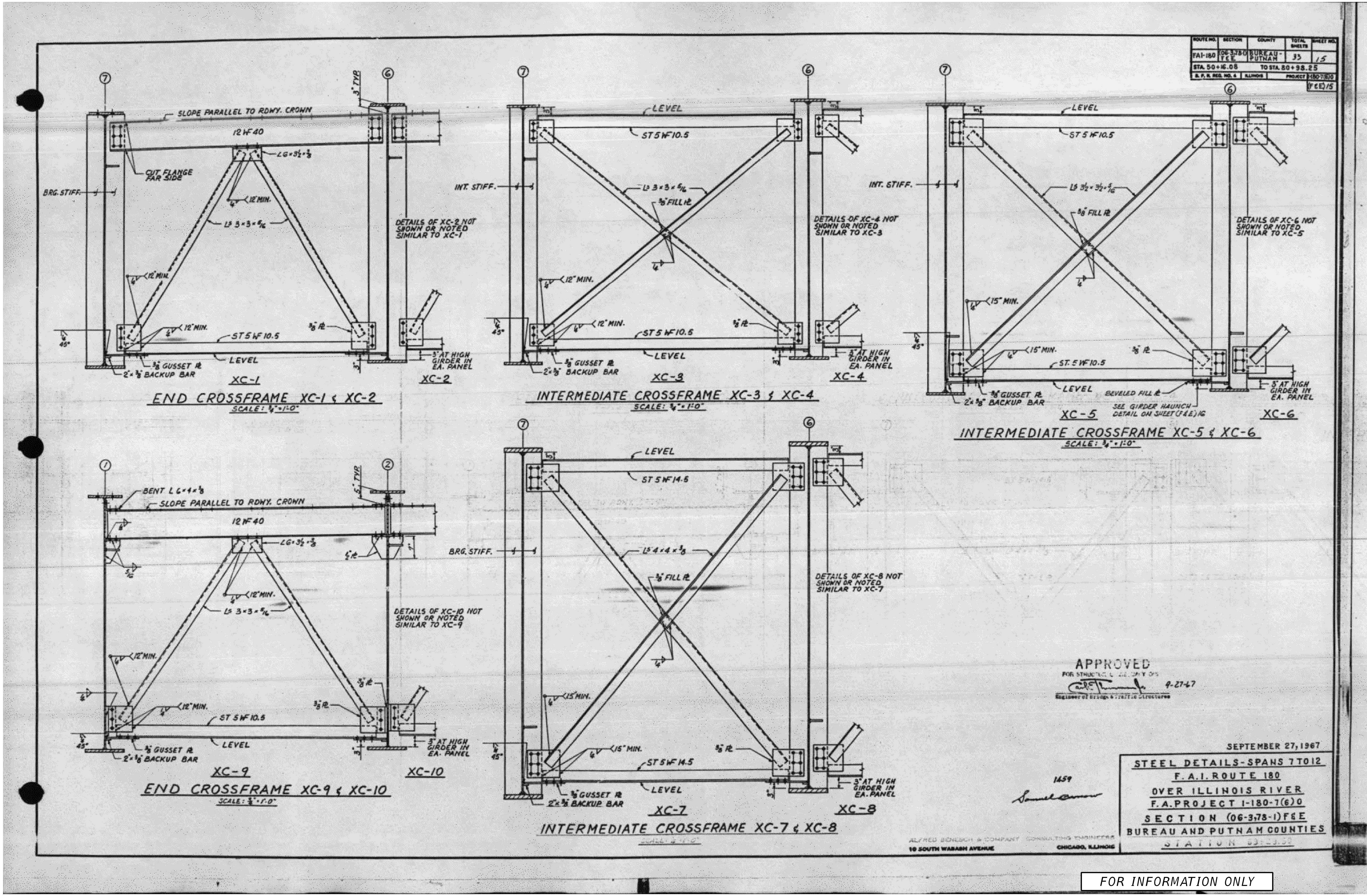

FOR INFORMATION ONLY

USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - SPANS 7 THRU 12 - STEEL DETAILS 1 STRUCTURE NO. 078-0001	
	CHECKED - TG / GEK	REVISED -			
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -			
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET EX-09 OF EX-18 SHEETS	

BURNS McDONNELL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	128
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

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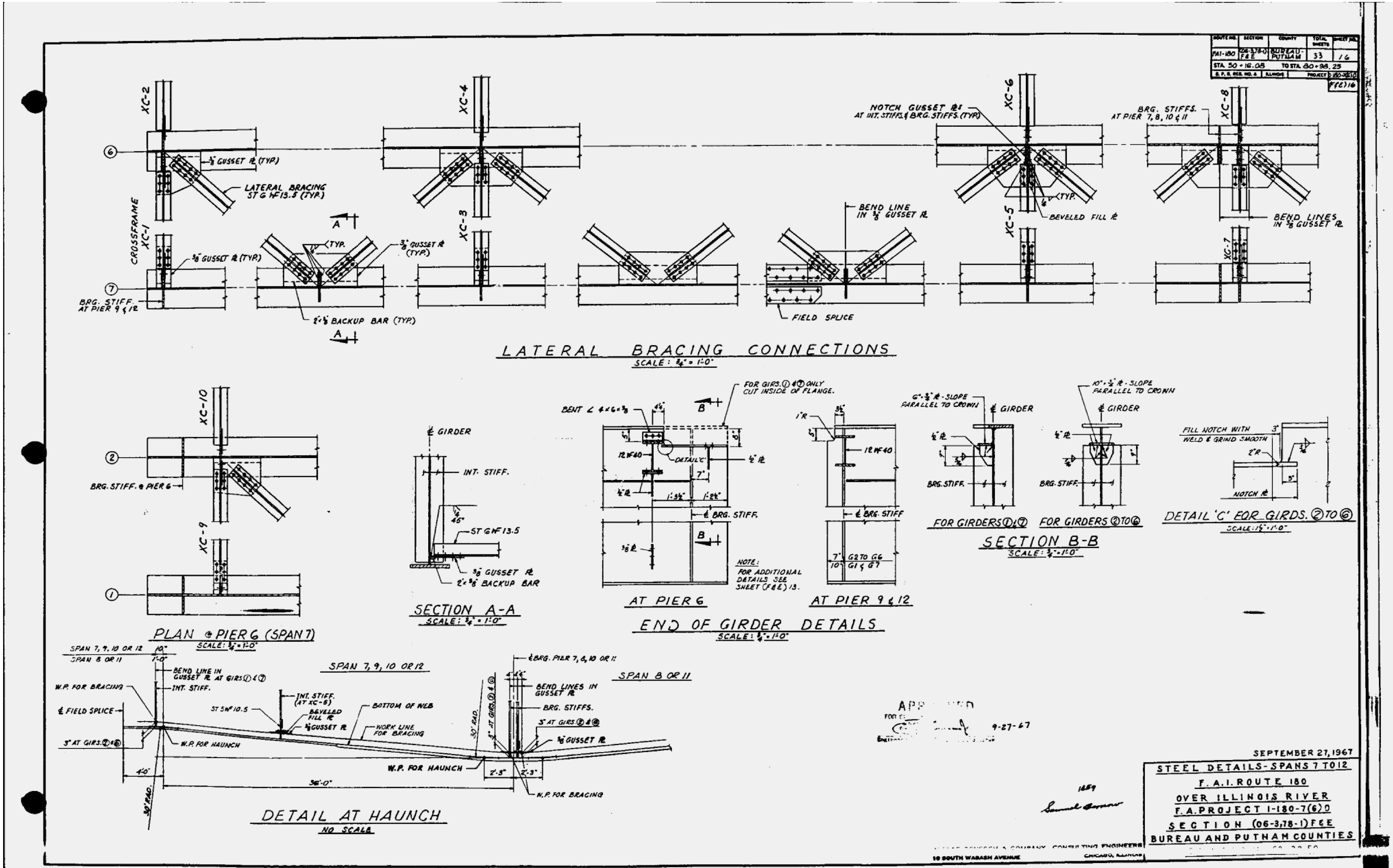

FOR INFORMATION ONLY

MODEL: Default
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BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
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PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - SPANS 7 THRU 12 - STEEL DETAILS 2
STRUCTURE NO. 078-0001

SHEET EX-10 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	129
CONTRACT NO. 66F08				
ILLINOIS	FED. AID PROJECT			

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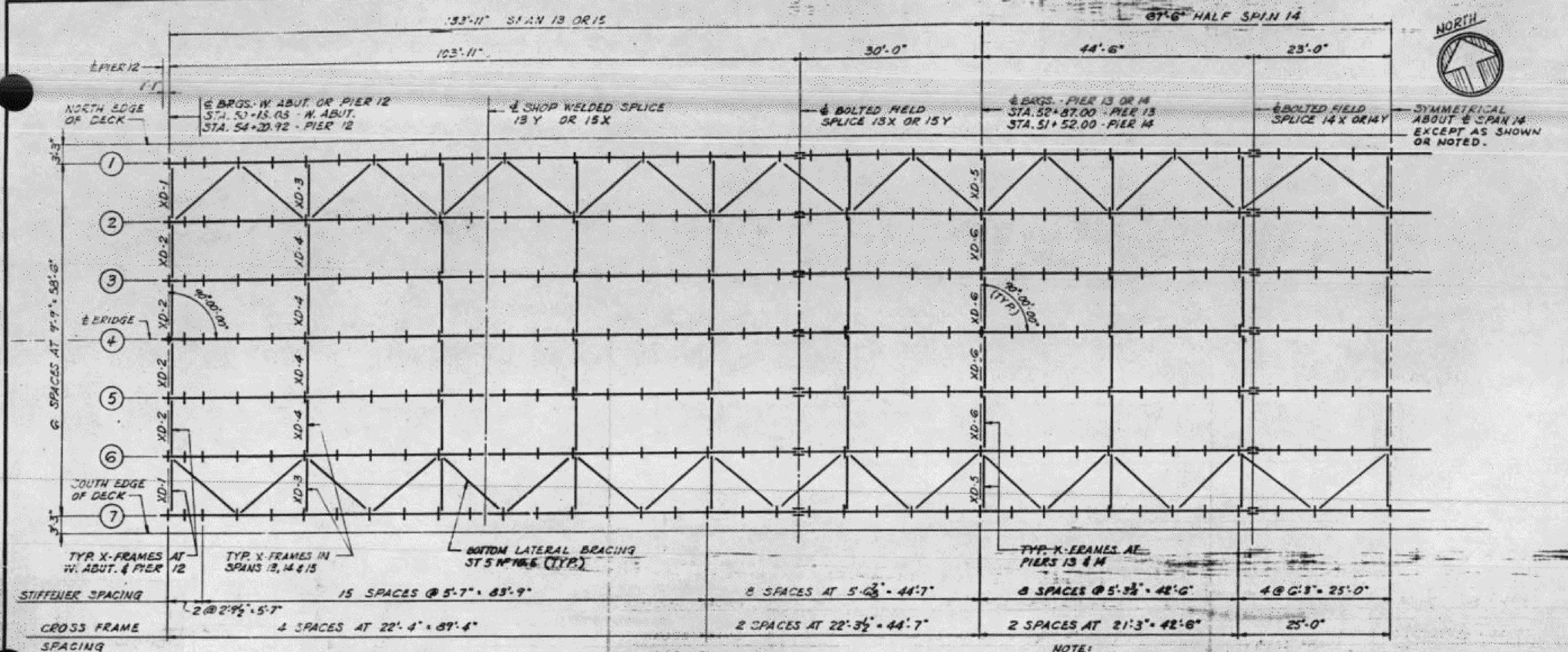
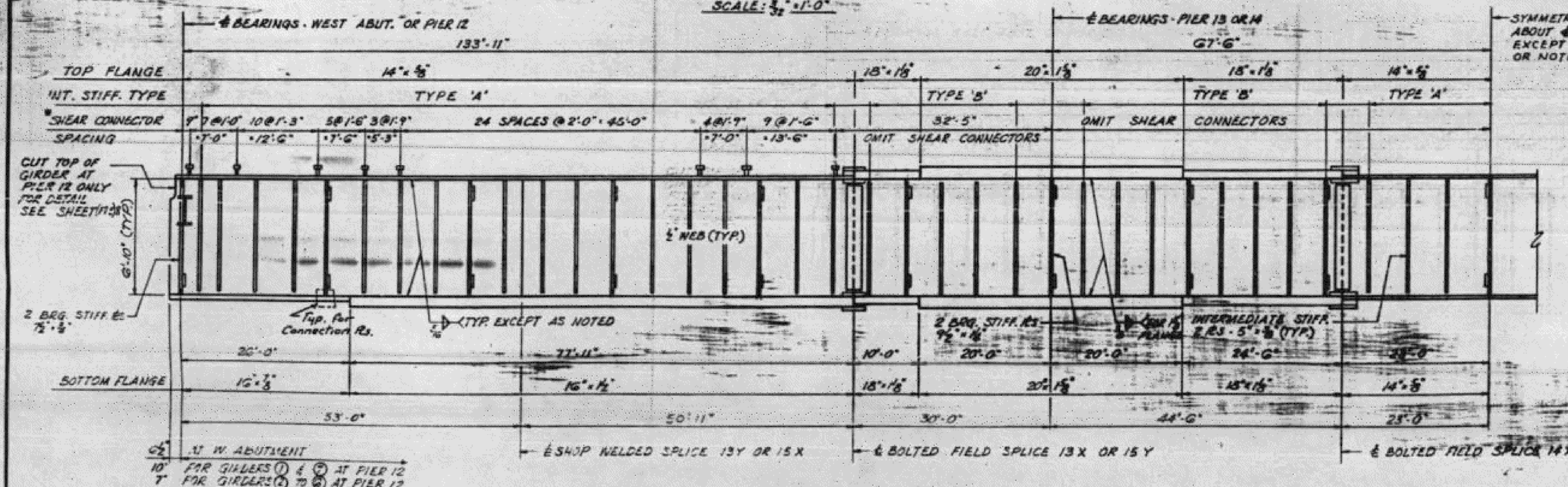


FRAMING PLAN

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



GIRDER ELEVATION

NO SCALE

* SHEAR CONNECTORS TO BE FURNISHED AND ERECTED UNDER SECTION (06-3, 78-1) D.

TOP OF WEB ELEVATIONS FOR FABRICATION ONLY

(UNDEFLECTED GIRDERS)

LOCATION \ GIRDER	1 & 7	2 & 6	3 & 5	4
℄ BRG. W. ABUT.	466.998	467.150	467.303	467.455
℄ SHOP SPLICE 15X	468.460	468.612	468.765	468.917
℄ FIELD SPLICE 15Y	469.620	469.773	469.925	470.078
℄ BRG. PIER 14	470.380	470.533	470.685	470.838
℄ FIELD SPLICE 14X	471.682	471.834	471.987	472.139
℄ FIELD SPLICE 14Y	473.062	473.214	473.367	473.519
℄ BRG. PIER 13	474.396	474.548	474.701	474.853
℄ FIELD SPLICE 13X	475.395	475.547	475.700	475.852
℄ SHOP SPLICE 13Y	477.105	477.257	477.410	477.562
℄ BRG. PIER 12	478.512	478.664	478.816	478.969

NOTES FOR STRUCTURAL STEEL

ALL STRUCTURAL STEEL SHALL CONFORM TO A. S. T. M. A36 EXCEPT AS OTHERWISE NOTED.

SHOP CONNECTIONS SHALL BE WELDED EXCEPT AS OTHERWISE SHOWN OR NOTED TO BE BOLTED. WELDING SHALL BE IN ACCORDANCE WITH CURRENT SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY AND AS NOTED ON THE PLANS AND IN THE SPECIAL PROVISIONS.

ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS EXCEPT AS OTHERWISE NOTED. ALL HIGH STRENGTH BOLTS SHALL BE 3/4" DIAMETER IN 13/16" HOLES EXCEPT AS OTHERWISE NOTED. HOLES FOR SPLICES IN GIRDERS AND SPLICE PLATES SHALL BE SUBPUNCHED OR SUBDRILLED TO 11/16" IN DIAMETER FOR 3/4" BOLTS AND TO 3/16" SMALLER DIAMETER THAN NOMINAL BOLT SIZE FOR BOLTS GREATER THAN 3/4" IN DIAMETER AND REAMED TO CORRECT SIZE WITH GIRDERS OF A CONTINUOUS UNIT ASSEMBLED IN THE SHOP IN PROPER POSITION. ASSEMBLY OF GIRDERS SHALL BE WITH OR WITHOUT CROSSFRAMES. LEAVE ASSEMBLED FOR INSPECTION.

ROADWAY EXPANSION GUARDS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 51. 13 (d) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN THE QUANTITY OF STRUCTURAL STEEL (CARBON). ESTIMATED WEIGHT = POUNDS. EXPANSION GUARDS SHALL BE ASSEMBLED IN THE SHOP IN PROPER POSITION AND LEFT ASSEMBLED FOR INSPECTION. FINGER PLATES SHALL BE FLAME CUT AS PROVIDED IN ARTICLE 54. 5 (1) OF THE STANDARD SPECIFICATIONS.

STRUCTURAL STEEL SHALL BE SHOP PAINTED UNDER SECTION (06-3, 78-1) F & E AND FIELD PAINTED UNDER SECTION (06-3, 78-1) P. STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT EXCEPT AS OTHERWISE SPECIFIED. ALL PAINT TO BE FURNISHED AND APPLIED BY THE CONTRACTOR. SEE ARTICLES 56. 1 TO 56. 5, INCLUSIVE, OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE EXPOSED SURFACES OF THE EXPANSION GUARDS SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT; THE CONTACT SURFACES SHALL BE GIVEN ONE SHOP COAT OF RED LEAD PAINT. ANCHOR STUDS SHALL NOT BE PAINTED.

SHOP INSPECTION OF THE STRUCTURAL STEEL SHALL BE BY ILLINOIS DIVISION OF HIGHWAYS BEFORE PAINTING.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/4 OF THE SPAN EACH WAY FROM THE INTERIOR SUPPORTS OF A CONTINUOUS UNIT ON THE TOP FLANGES OF GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

FOR NOTES FOR BEARINGS SEE SHEET (F & E) 1.

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED BY THE DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, JANUARY 2, 1958, SHALL APPLY. THE SUPPLEMENTAL SPECIFICATIONS, EFFECTIVE JANUARY 3, 1966, ALSO APPLY TO THIS WORK.

FOR ADDITIONAL REQUIREMENTS SEE SPECIAL PROVISIONS.

APPROVED

7-26-67

AS BUILT AUGUST 31, 1967

JULY 18, 1967

FRAMING PLAN - SPANS 13, 14 & 15
F. A. I. ROUTE 180
OVER ILLINOIS RIVER
F. A. PROJECT I-180-7(6)0
SECTION (06-3, 78-1) F & E
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS

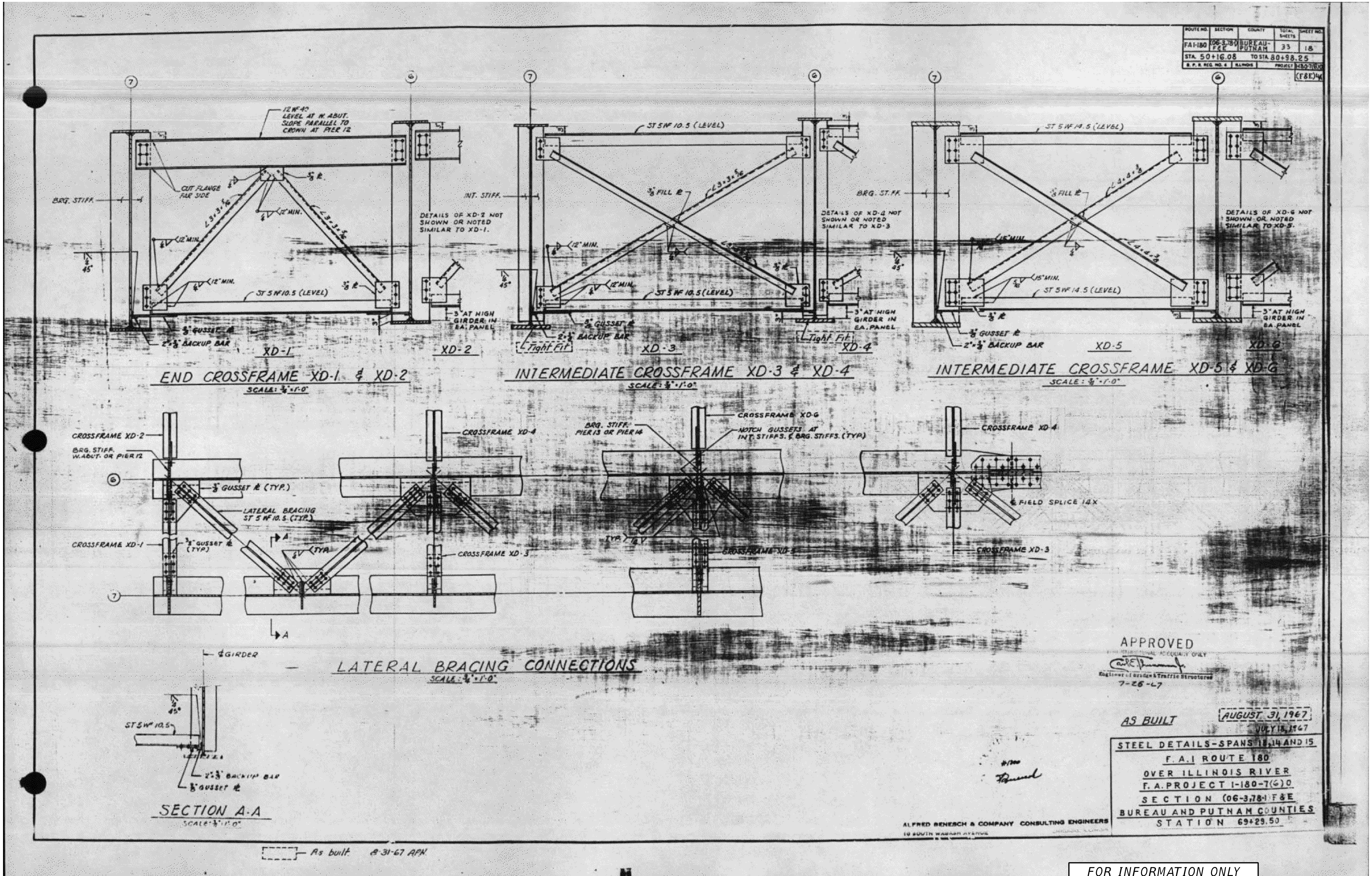
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-180	(06-3, 78-1) F & E	BUREAU-PUTNAM	33	17

STA. 50+16.08 TO STA. 80+98.25

(F&E)3A

[ ] - As Built 8-31-67 APH

FOR INFORMATION ONLY



FOR INFORMATION ONLY

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - SPAN 13, 14 & 15 - STEEL DETAILS 1 STRUCTURE NO. 078-0001	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - TG / GEK	REVISED -			180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	131
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -			CONTRACT NO. 66F08				
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET EX-12 OF EX-18 SHEETS		ILLINOIS	FED. AID PROJECT		

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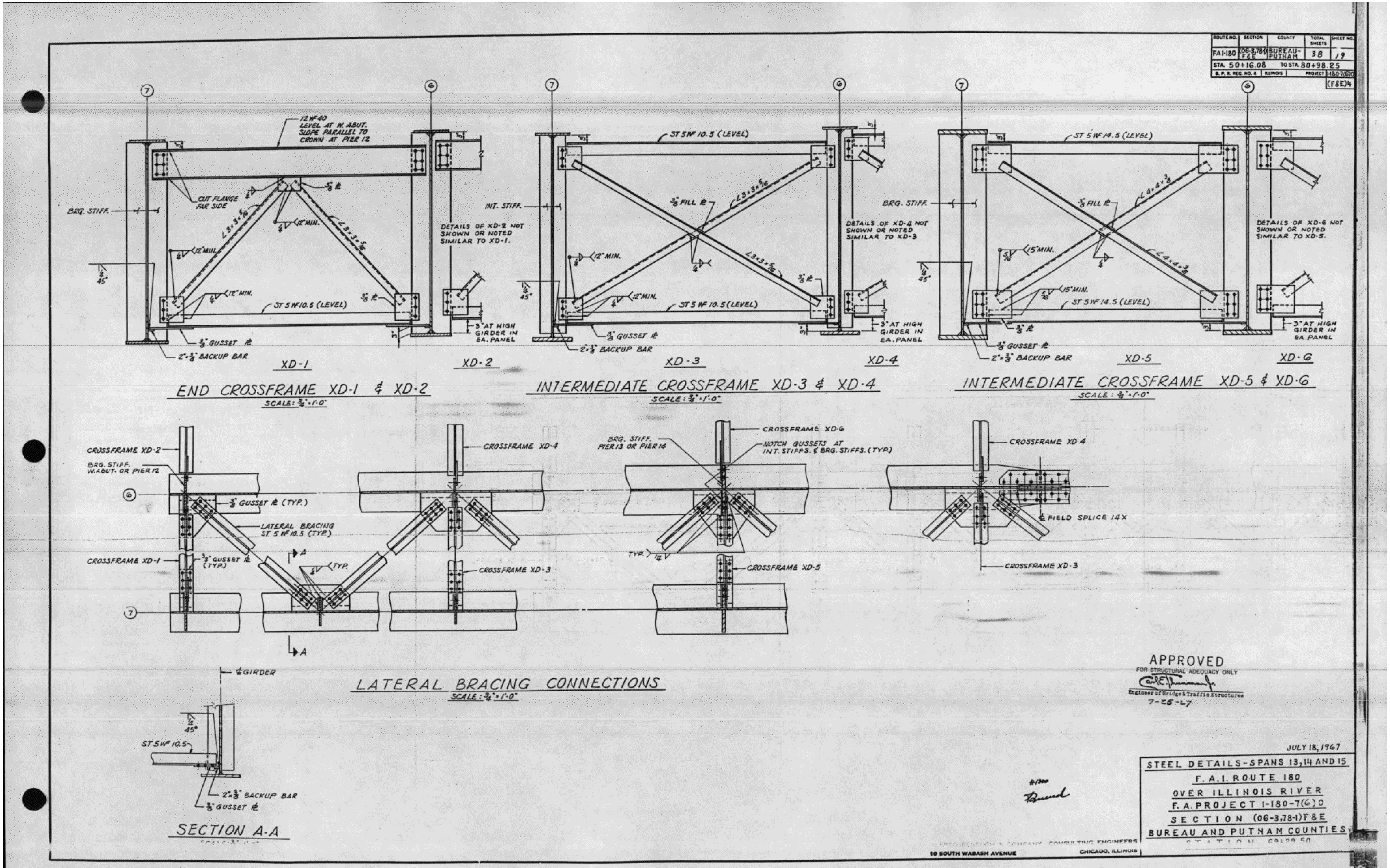

FOR INFORMATION ONLY

BURNS McDONNELL	USER NAME = eckay	DESIGNED - ECK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - SPANS 13, 14 & 15 - STEEL DETAILS 2 STRUCTURE NO. 078-0001
		CHECKED - TG / GEK	REVISED -		
	PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -		
	PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -		SHEET EX-13 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	132
		CONTRACT NO. 66F08		
	ILLINOIS	FED. AID PROJECT		

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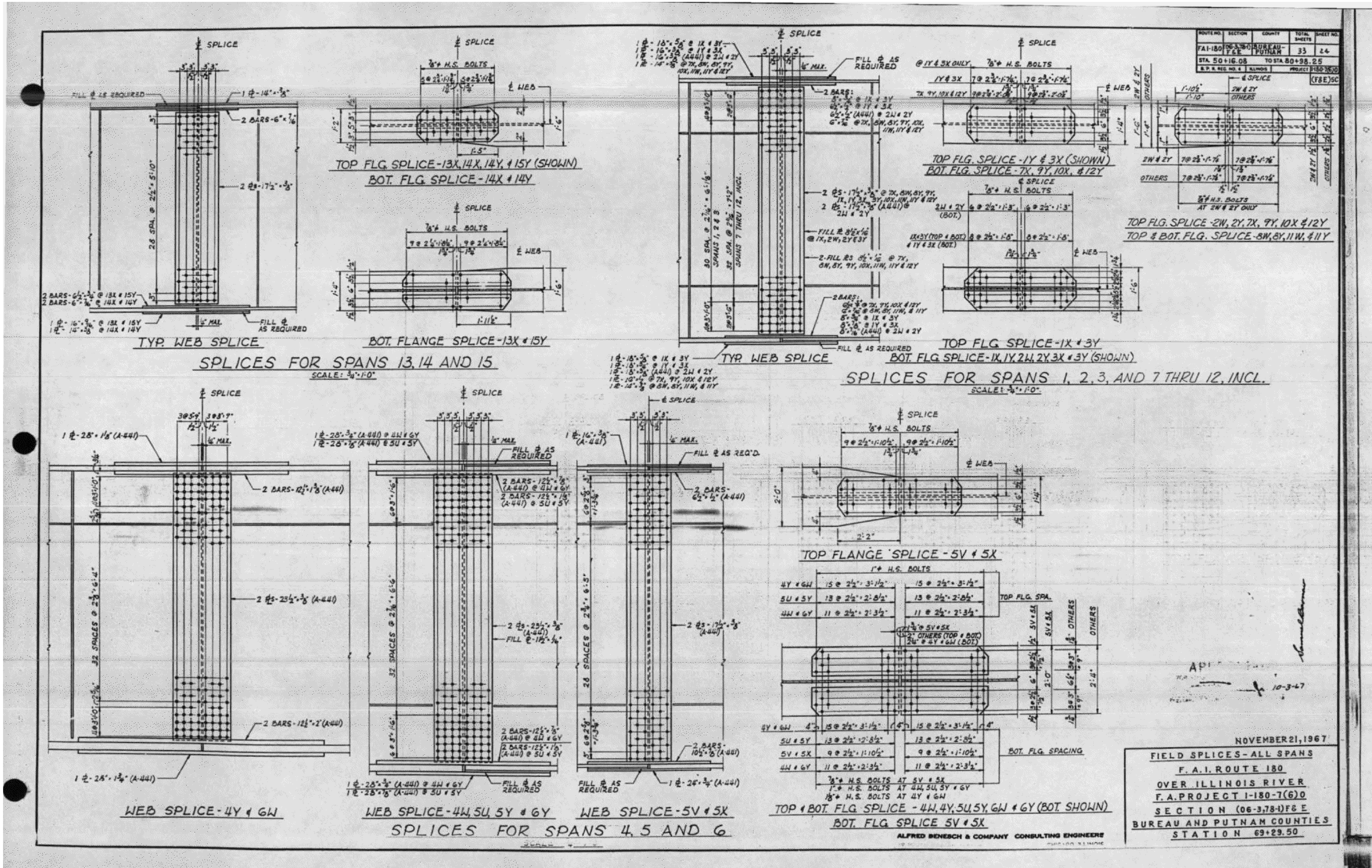

FOR INFORMATION ONLY

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BURNS McDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - FEILD SPLICE DETAILS
STRUCTURE NO. 078-0001

SHEET EX-14 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	133

CONTRACT NO. 66F08

ILLINOIS FED. AID PROJECT

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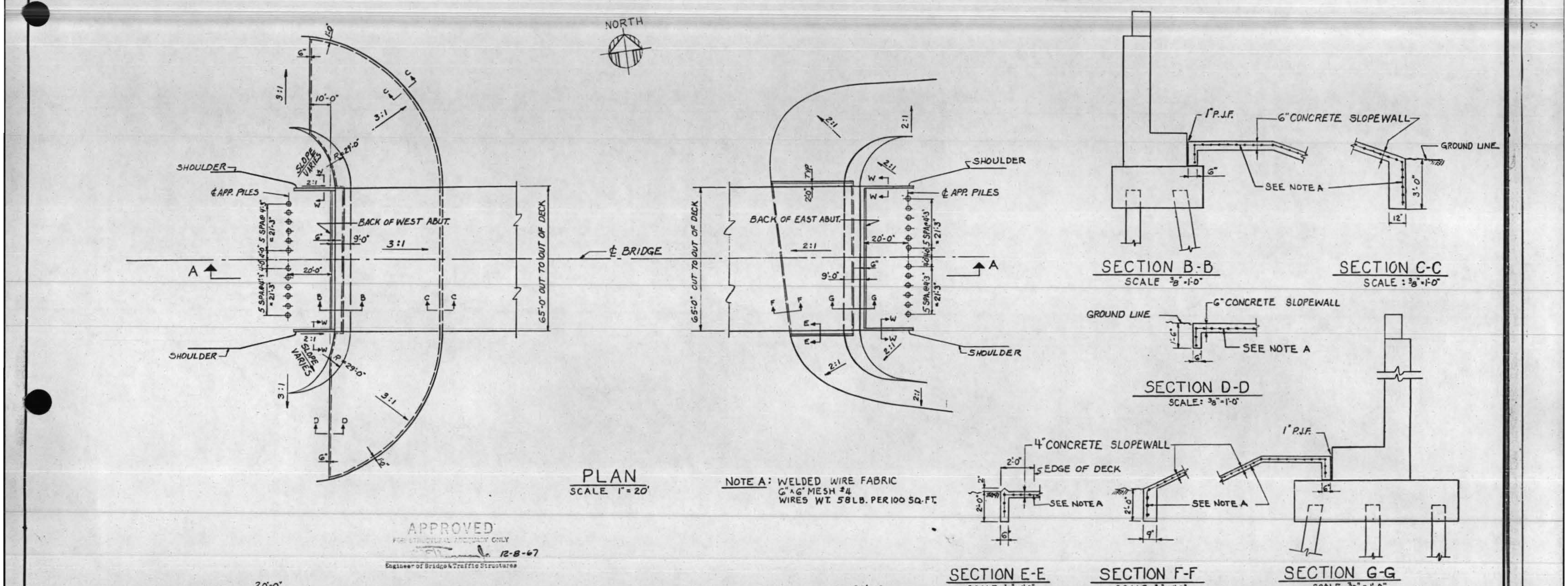
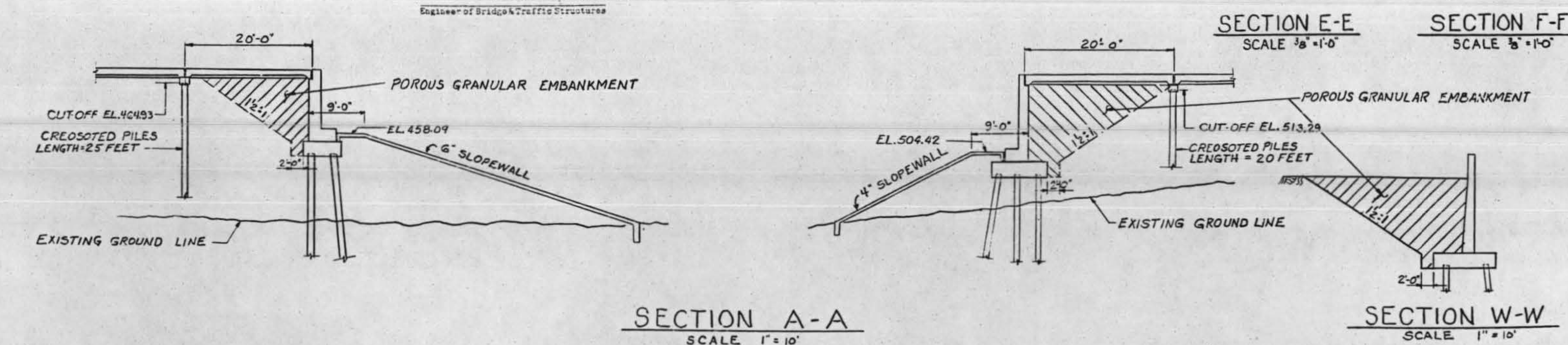




BILL OF MATERIALS

ITEM	UNIT	QUANTITIES
SLOPE WALL 4 INCH	SQ. YDS.	305
SLOPE WALL 6 INCH	SQ. YDS.	1,150
FURNISHING CREOSOTED PILES UP TO 20 FEET	LIN. FT.	240
FURNISHING CREOSOTED PILES 20.1 TO 38 FEET	LIN. FT.	300
DRIVING TIMBER PILES	LIN. FT.	540
POROUS GRANULAR EMBANKMENT	CU. YDS.	888

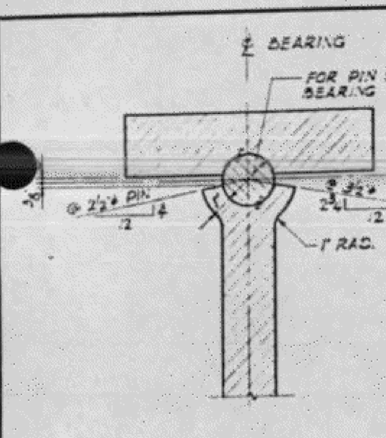
NOVEMBER 30, 1967

DETAILS OF SLOPEWALLS
F. A. I. ROUTE 180
OVER ILLINOIS RIVER
F. A. PROJECT I-180-7(5)0
SECTION (06-3,78-1)B
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

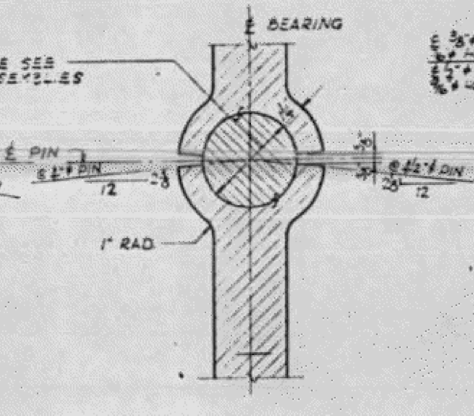
Samuel Barnes

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE CHICAGO, ILLINOIS

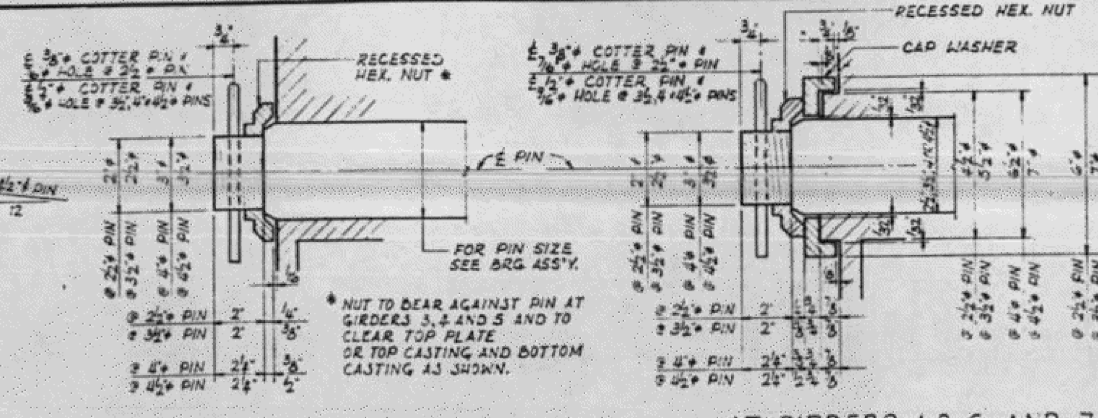
FOR INFORMATION ONLY



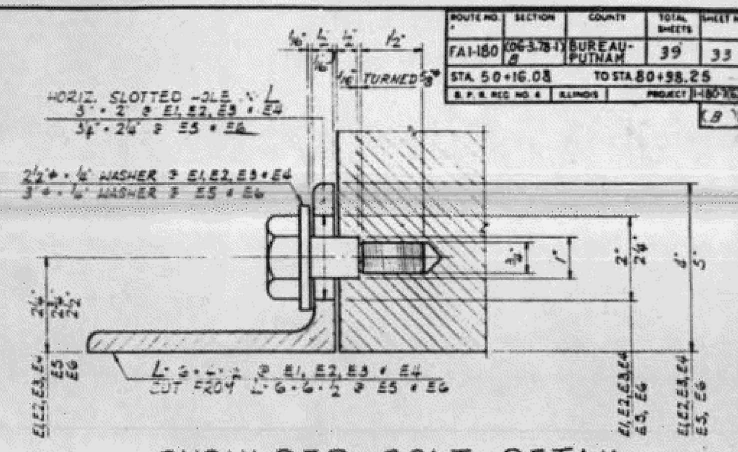
SECTION A-A
SCALE: 3" = 1'-0"



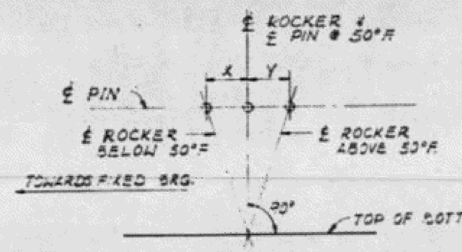
SECTION B-B
SCALE: 3" = 1'-0"



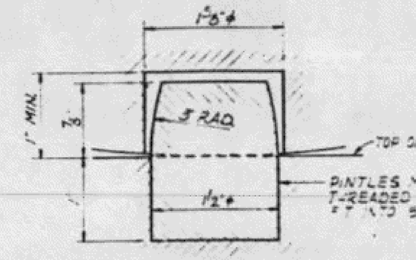
DETAILS OF PINS
SCALE: 3" = 1'-0"



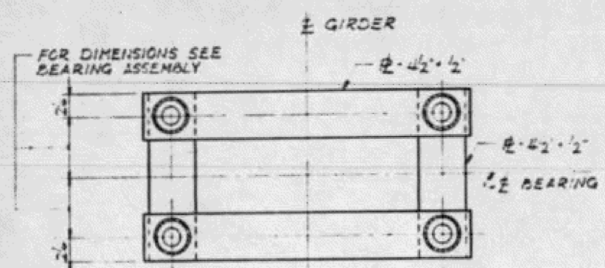
SHOULDER BOLT DETAIL
AT GIRDERS 1, 2, 6 AND 7 ONLY
SCALE: 6" = 1'-0"



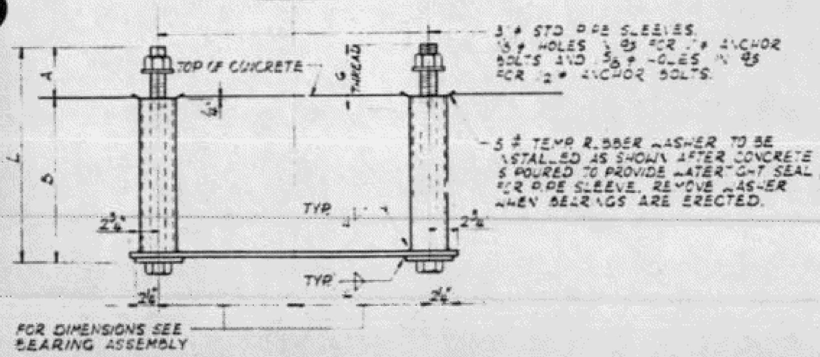
ROCKER SETTING DIAGRAM
NO SCALE



PINTLE DETAIL
FULL SCALE



PLAN



ELEVATION

ANCHOR BOLT SETTINGS
SCALE: 1/2" = 1'-0"

TEMPERATURE SETTINGS FOR EXP. BRGS.

LOCATION	X			X OR Y	Y		
	-10°F	10°F	30°F	50°F	70°F	90°F	110°F
WEST ABUTMENT	5/8"	7/16"	3/16"	0	3/16"	7/16"	5/8"
PIER 13	5/8"	7/16"	3/16"		3/16"	7/16"	5/8"
PIER 12 - SPAN 13	1/4"	13/16"	7/16"		7/16"	13/16"	1/4"
PIER 2 - SPAN 12	3/16"	1/2"	1/4"		1/4"	1/2"	15/16"
PIER 10	13/16"	1/2"	1/4"		1/4"	1/2"	13/16"
PIER 9 - SPAN 10	1 9/16"	11/16"	1/2"		1/2"	11/16"	1 9/16"
PIER 9 - SPAN 9	1 5/16"	7/8"	7/16"		7/16"	7/8"	1 5/16"
PIER 6 - SPAN 7	1 5/16"	7/8"	7/16"		7/16"	7/8"	1 5/16"
PIER 6 - SPAN 6	2 9/16"	1 11/16"	7/8"		7/8"	1 11/16"	2 9/16"
PIER 3 - SPAN 4	2 9/16"	1 1/16"	7/8"		7/8"	1 11/16"	2 9/16"
PIER 3 - SPAN 3	1 3/16"	13/16"	5/8"		5/8"	1 3/16"	1 3/16"
EAST ABUTMENT	3/16"	3/16"	5/8"	0	5/8"	1 3/16"	1 13/16"

AP[illegible]
7-26-67

ANCHOR BOLT LENGTHS

LOCATION	GIRDER	BEARING	A	B	L
E. ABUT.	1-7	E6	5 1/4"	1'-3 3/4"	1'-9"
PIERS 1 & 2	1 AND 7	F4	5"	1'-4"	1'-9"
	2-6	F4	5"	2'-1"	2'-6"
PIER 3	1 AND 7	E6	5 1/4"	1'-3 3/4"	1'-9"
	2-6	E6	5 1/4"	2'-3 1/2"	2'-9"
	1 AND 7	E5	5 3/4"	1'-3 1/4"	1'-9"
	2-6	E5	5 3/4"	2'-0 1/4"	2'-6"
PIERS 4 & 5	1 AND 7	F3	5"	1'-4"	1'-9"
	2-6	F3	5"	2'-10"	3'-3"
PIER 6	1 AND 7	E5	5 3/4"	1'-3 1/4"	1'-9"
	2-6	E5	5 3/4"	2'-0 1/4"	2'-6"
	1 AND 7	E3	5"	1'-7"	2'-0"
	2-6	E3	5"	2'-7"	3'-0"

LOCATION	GIRDER	BEARING	A	B	L
PIERS 7, 8 & 11	1 AND 7	F2	4 3/4"	1'-3 1/4"	1'-9"
	2-6	F2	4 3/4"	2'-1 1/4"	2'-6"
PIER 9	1 AND 7	E3	5"	1'-4"	1'-9"
	2-6	E3	5"	2'-1"	2'-6"
PIER 10	1 AND 7	E4	6"	1'-3"	1'-9"
	2-6	E4	6"	2'-0"	2'-6"
PIER 12	1 AND 7	E3	5"	1'-4"	1'-9"
	2-6	E3	5"	1'-7"	2'-0"
	1-7	E1	4 1/2"	1'-3 1/2"	1'-9"
PIER 13	1 AND 7	E2	5"	1'-4"	1'-9"
	2-6	E2	5"	1'-7"	2'-0"
PIER 14	1 AND 7	F1	4 1/4"	1'-4 1/2"	1'-9"
	2-6	F1	4 1/4"	1'-7 3/4"	2'-0"
W. ABUT.	1-7	E1	4 1/2"	1'-4 1/2"	1'-9"

NOTE:
FOR BEARING NOTES SEE SHEET (112)

JULY 18, 1967

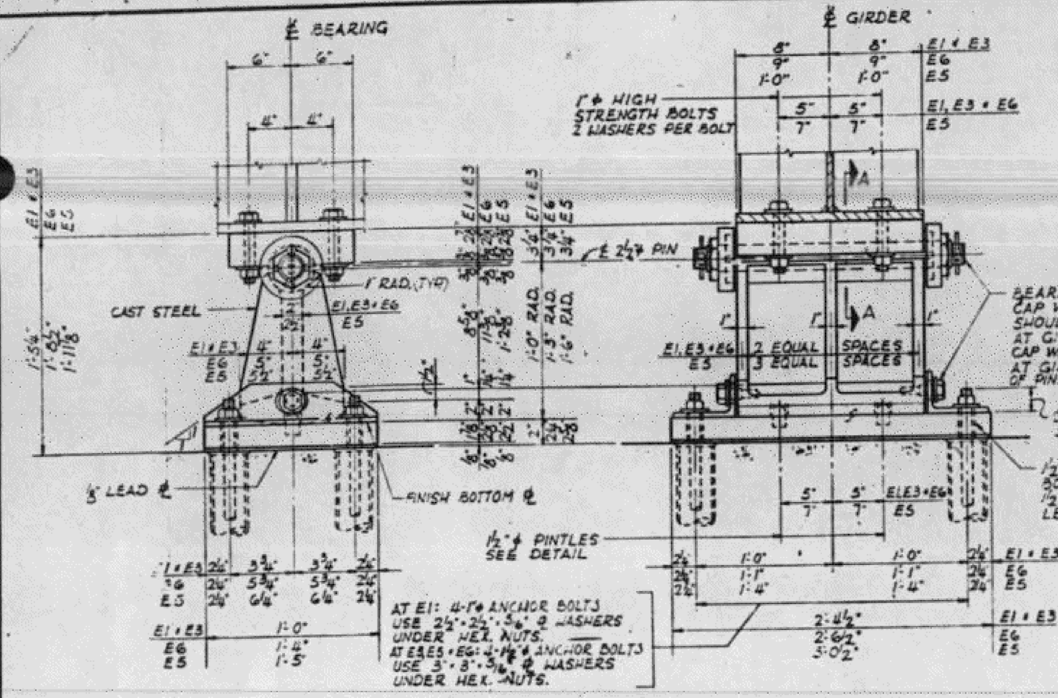
DETAILS OF BEARINGS
F. A. I. ROUTE 180
OVER ILLINOIS RIVER
F. A. PROJECT I-180-7(5)0
SECTION (06-3,78 I)B
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE CHICAGO, ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA I-180	(06-3,78-1) B	BUREAU-PUTNAM	39	33

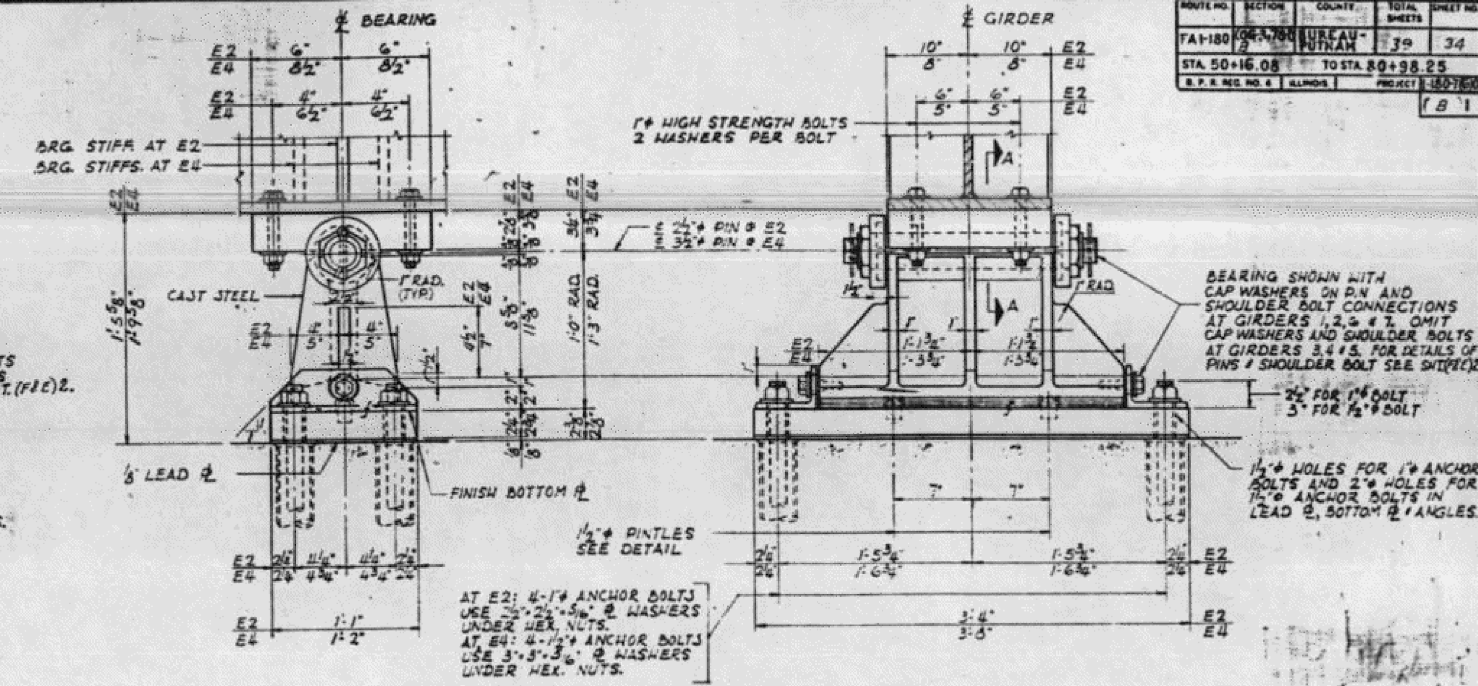
STA. 50+16.08 TO STA. 80+98.25

FOR INFORMATION ONLY



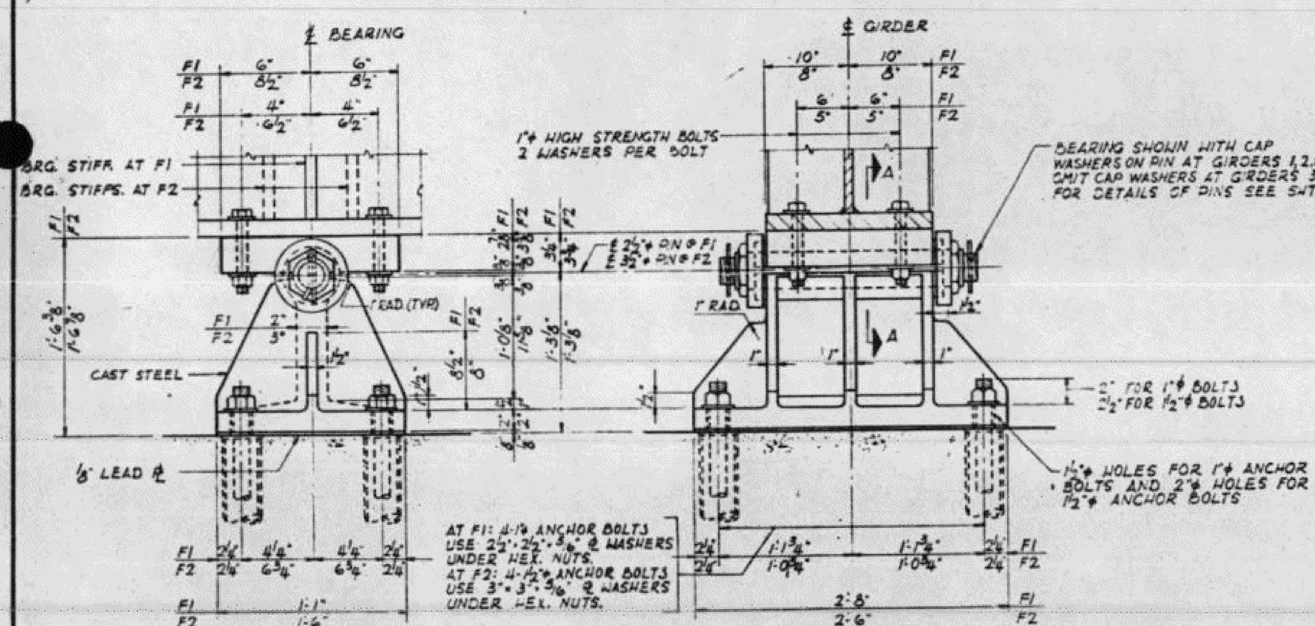
EXPANSION BEARINGS E1, E3, E5 & E6

SCALE: 1½"=1'-0"



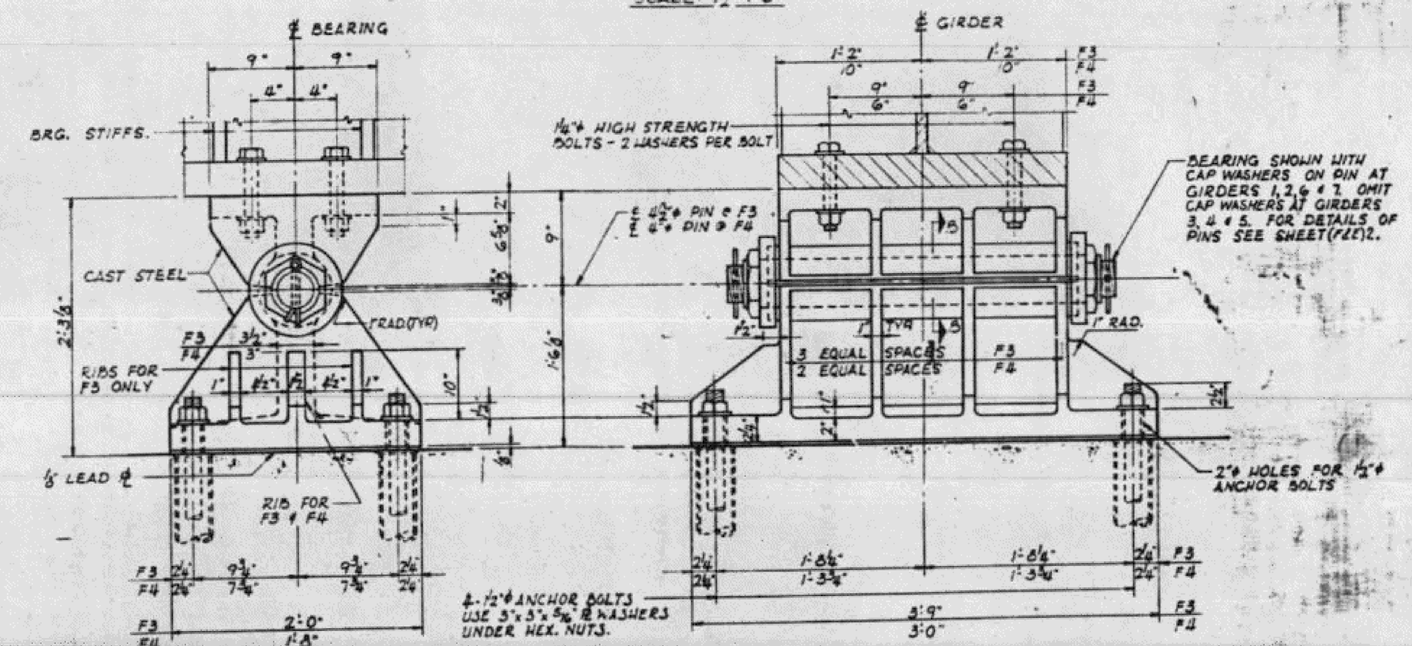
EXPANSION BEARINGS E2 AND E4

SCALE: 1½"=1'-0"



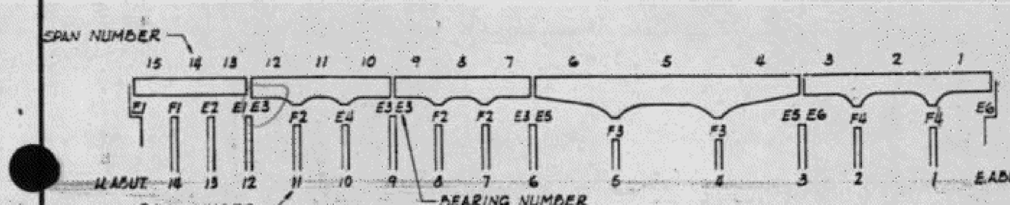
FIXED BEARINGS F1 AND F2

SCALE: 1½"=1'-0"



FIXED BEARINGS F3 AND F4

SCALE: 1½"=1'-0"



LOCATIONS OF BEARINGS

NOTES FOR BEARINGS

CAST STEEL SHALL CONFORM TO A.S.T.M. A27, GRADE 65-35, FULLY ANNEALED.

PINS SHALL BE FORGED STEEL CONFORMING TO A.S.T.M. A235, CLASS F.

PIPE SLEEVES SHALL CONFORM TO A.S.T.M. A53, TYPE E OR S, GRADE A OR B.

ALL OTHER MATERIAL SHALL CONFORM TO A.S.T.M. A36 EXCEPT AS OTHERWISE NOTED.

CASTINGS, PINTLES, BEARING PLATES, LEAD PLATES, ANCHOR BOLTS AND MISCELLANEOUS ITEMS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN THE QUANTITY OF STRUCTURAL STEEL (CARBON). ESTIMATED WEIGHT OF BEARINGS IS POUNDS WHICH INCLUDES POUNDS OF CAST STEEL.

ANCHOR BOLT ASSEMBLIES, COMPLETE, CONSISTING OF ANCHOR BOLTS, PIPE SLEEVES, SETTING PLATES, NUTS, STEEL WASHERS AND RUBBER WASHERS SHALL BE FABRICATED AND TRANSPORTED TO THE SITE UNDER SECTION (06-3, 78-1) F & E AND SET IN THE FORMS AND CONCRETED INTO PLACE UNDER SECTION (06-3, 78-1) B.

FOR ADDITIONAL REQUIREMENTS SEE SPECIAL PROVISIONS.

NOTE

FOR ADDITIONAL NOTES SEE SHEET (F&E) 3.
FOR SECTIONS A-A AND B-B AND ADDITIONAL DETAILS SEE SHEET (F&E) 2.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridge & Traffic Structures
7-28-67

JULY 18, 1967

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS
10 SOUTH WABASH AVENUE CHICAGO, ILLINOIS

DETAILS OF BEARINGS
F. A. I. ROUTE 180
OVER ILLINOIS RIVER
F. A. PROJECT I-180-7(5)0
SECTION (06-3, 78-1)B
BUREAU AND PUTNAM COUNTIES
STATION 69+29.50

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-180	(06-3, 78-1) B	BUREAU-PUTNAM	39	34

STA. 50+16.08 TO STA. 80+98.25

FOR INFORMATION ONLY

USER NAME = eckay	DESIGNED - ECK	REVISED -	
	CHECKED - TG / GEK	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -	
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -	

BURNS McDONNELL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - BEARINGS DETAILS 2
STRUCTURE NO. 078-0001

SHEET EX-17 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	136

CONTRACT NO. 66F08

ILLINOIS FED. AID PROJECT

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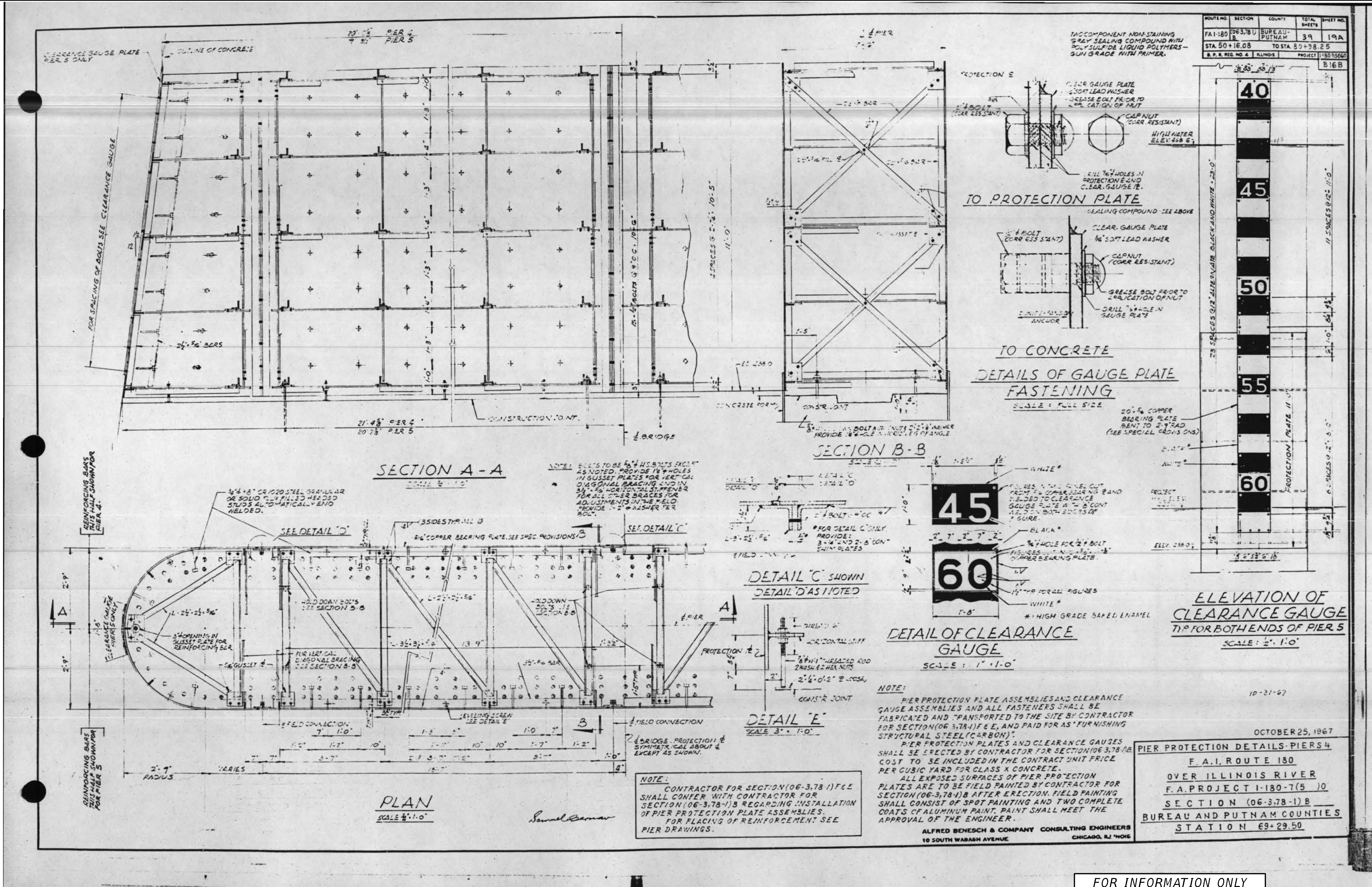

FOR INFORMATION ONLY

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BURNS McDONNELL

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	CHECKED - TG / GEK	REVISED -
PLOT SCALE = N.T.S.	DRAWN - MDW	REVISED -
PLOT DATE = 10/16/2019	CHECKED - ECK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - CLEARANCE GAUGE
STRUCTURE NO. 078-0001

SHEET EX-18 OF EX-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	137
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

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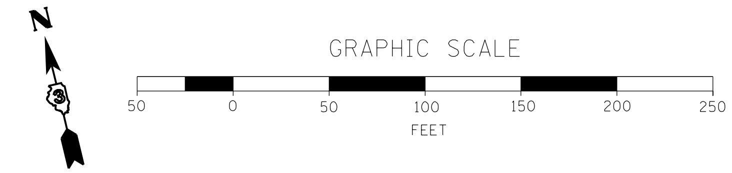
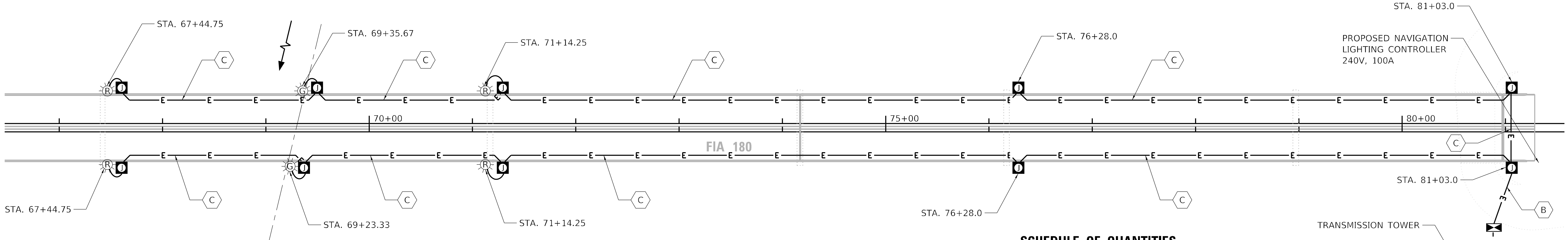
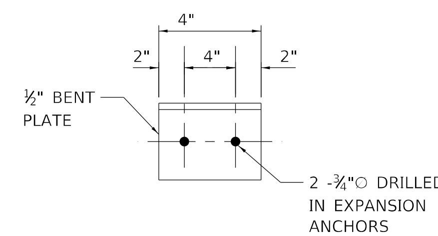




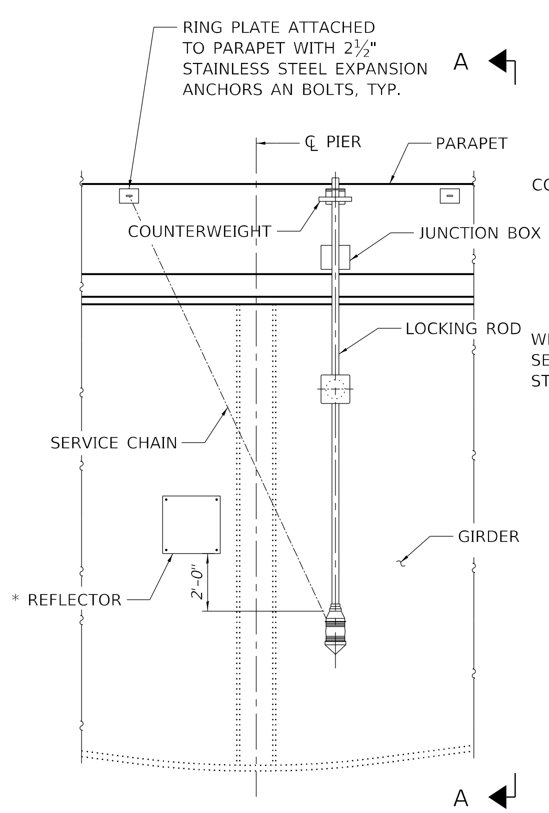


LOCKING ROD SUPPORT DETAIL

N.T.S

SCHEDULE OF QUANTITIES

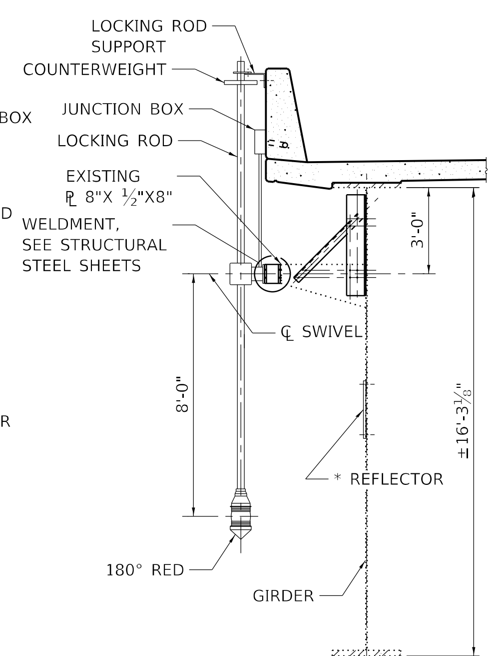
DESCRIPTION	UNIT	TOTAL
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	73
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	11
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X12"X6"	EACH	10
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	63
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	3135
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	6270
WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED	EACH	6
NAVIGATION OBSTRUCTION LIGHTING CONTROLLER	EACH	1
REMOVAL OF NAVIGATION OBSTRUCTION WARNING LIGHTING UNIT	EACH	6
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1



TYPICAL WATERWAY OBSTRUCTION WARNING LUMINAIRE DETAIL

N.T.S

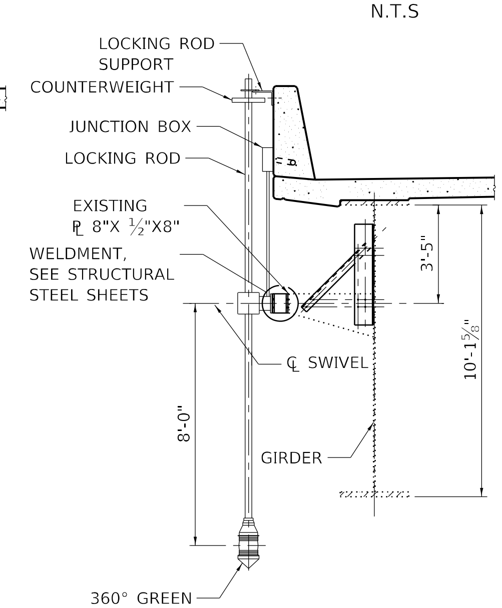
* 2'X2'X¼" ANODIZED OR ALUMINUM PLATED WITH HIGH INTENSITY RED RETRO-REFLECTIVE SHEETING. MOUNT ONE ABOVE EACH RED NAVIGATION LIGHT. ATTACH WITH 4 - ½" STAINLESS STEEL BOLTS AT EACH CORNER. THE COST SHALL BE INCLUDED WITH WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED.



SECTION A-A

(RED CHANNEL MARGIN)

N.T.S.



SECTION A-A

(GREEN CHANNEL CENTER)

N.T.S.

CABLE & CONDUIT SCHEDULE

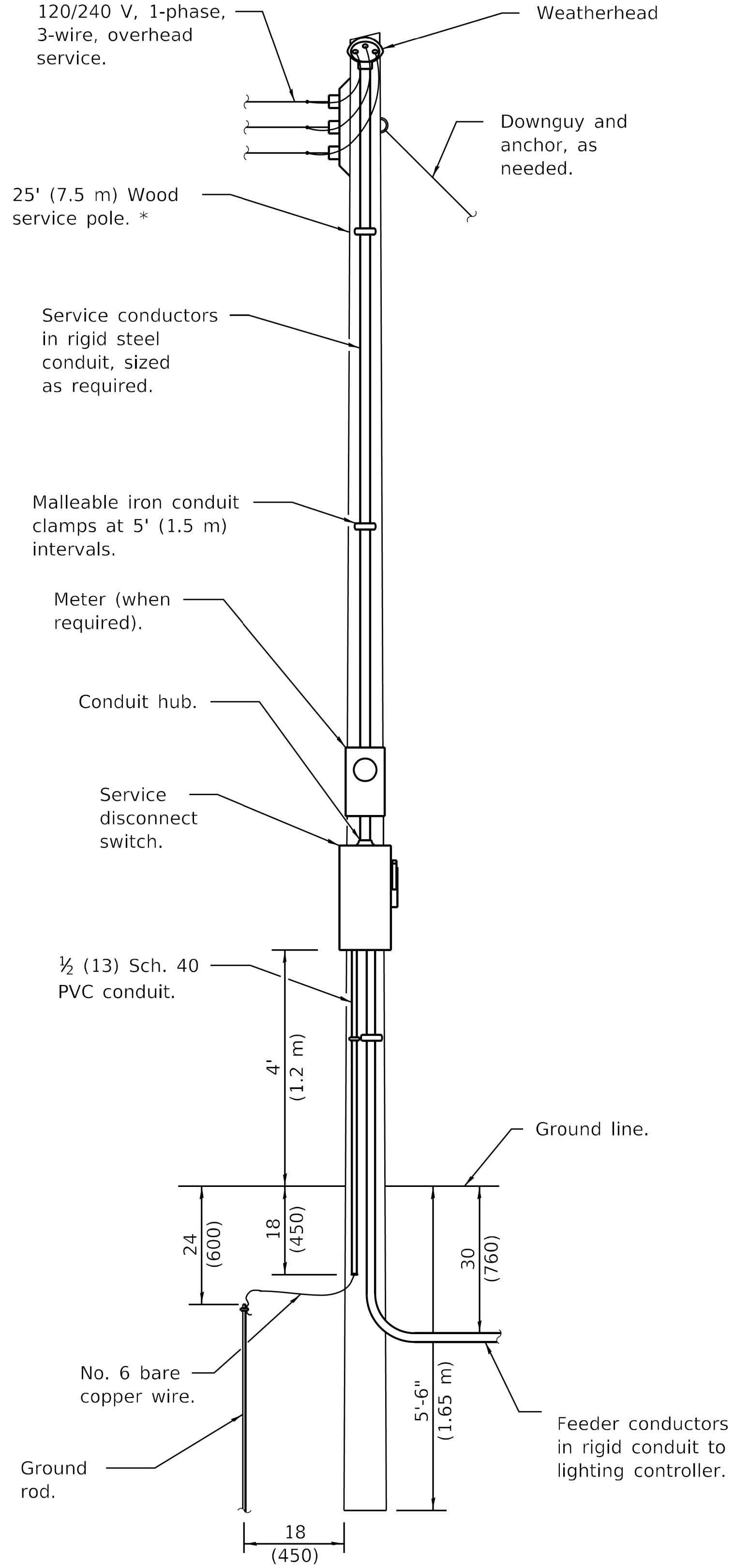
- (A) UNIT DUCT, 600V (XLP-TYPE USE), 3-1/C NO. 2 & NO. 4 GND, IN 1¼" DIA. POLYETHYLENE
- (B) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 2-1/C NO. 6 & NO. 8 GND, IN 2" DIA. STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
- (C) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 2-1/C NO. 6 & NO. 8 GND, IN 2" DIA. PVC EMBEDED IN PARAPET

LEGEND

- 12"X12"X6" NEMA 4X, STAINLESS STEEL JUNCTION BOX
- (G) PROPOSED NAVIGATION WATERWAY OBSTRUCTION WARNING LUMINAIRE, CHANNEL CENTER, 360 DEG GREEN (G), 25W LED
- (R) PROPOSED NAVIGATION WATERWAY OBSTRUCTION WARNING LUMINAIRE, CHANNEL MARGIN, 180 DEG RED (R), 25W LED
- —E— ELECTRIC CABLE IN CONDUIT
- \- - - - ELECTRIC CABLE IN UNIT DUCT

NOTES:

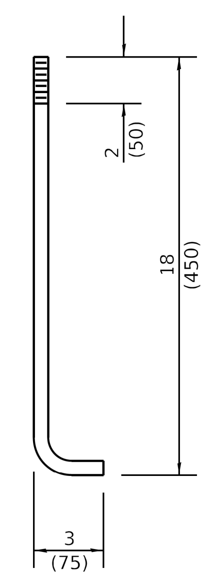
1. COST OF ALL CONNECTION PLATES ATTACHED TO THE PARAPET INCLUDED WITH COST OF NAVIGATIONAL LIGHTING PAY ITEM.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE RING AND HOOK PLATES, LENGTH OF THE SERVICE CHAIN AND HORIZONTAL POSITION OF THE RED RETRO-REFLECTIVE PANELS BASED ON FILED CONDITIONS.
3. FOR ADDITIONAL NAVIGATIONAL LIGHTING STEEL DETAILS SEE SHEET S-71 OF S-87 .
4. CONTRACTOR SHALL MAINTAIN TEMPORARY NAVIGATIONAL LIGHTING AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO COORDINATE TEMPORARY NAVIGATION OBSTRUCTION WARNING LIGHTING SYSTEM WITH APPROVAL OF ENGINEER. THE TEMPORARY LIGHTS SHALL CONFORM TO ALL UNITED STATES COAST GAURD GUIDELINES AND STANDARDS FOR BRIDGE LIGHTING. THE COST OF ANY TEMPORARY NAVIGATION LIGHTS SHAL BE INCLUDED IN THE PRICE OF THE "WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED" PAY ITEM.
5. CONTRACTOR SHALL REMOVE EXISTING AND TEMPORARY NAVIGATION LIGHTING SYSTEM AFTER NEW SYSTEM IS INSTALLED, ENERGIZED, TESTED AND ACCEPTED BY ENGINEER. CONTRACTOR TO REMOVE EXISTING SYTEM BACK TO AND INCLUDING UTILITY METER BOX. CONTRACTOR TO COORDINATE DISCONNECTION WITH UTILITY.
6. THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION / DEFLECTION COUPLING A THE JOINTS IN THE CONCRETE PARAPET ON THE BRIDGE CAPABLE OF ACCEPTING THE LONGITUDINAL MOVEMENT, THE METALLIC PARTS OF THE COUPLING SHALL BE MADE OF STAINLESS STEEL OR AS APPROVED BY THE ENGINEER. THE COST OF THE COUPLINGS SHALL BE A PART OF AN INCIDENTAL TO THE CONDUIT SYSTEM.
7. THE BARREL IN THE EXPANSION FITTING SHALL BE FULLY EMBEDED IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT.
8. ONE HALF OF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDED IN THE CONCRETE ON THE OTHER SIDE OF THE EXPANSION JOINT. A CAVITY OPENING 3" LARGER THAN THE DIAMETER OF THE DEFLECTION SLEEVE LENGTH SHALL BE PROVIDED TO ENSURE PROPER PERFORMANCE OF THE COUPLING.
9. CAREFUL ATTENTION TO JOINT MOVEMENT OVER A RANGE OF TEMPERATURES SHALL BE COORDINATED WITH THE SELECTION AND INSTALLATION OF THE COUPLING TO ENDURE THE RANGE OF MOVEMENT OF THE COUPLING IS NOT EXCEEDED AT THE TEMPERATURE EXTREMES.
10. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSION JOINS AND SHALL BE RESPONSIBLE FOR DETERMINING THE PROPER NUMBER OF COUPLINGS REQUIRED.



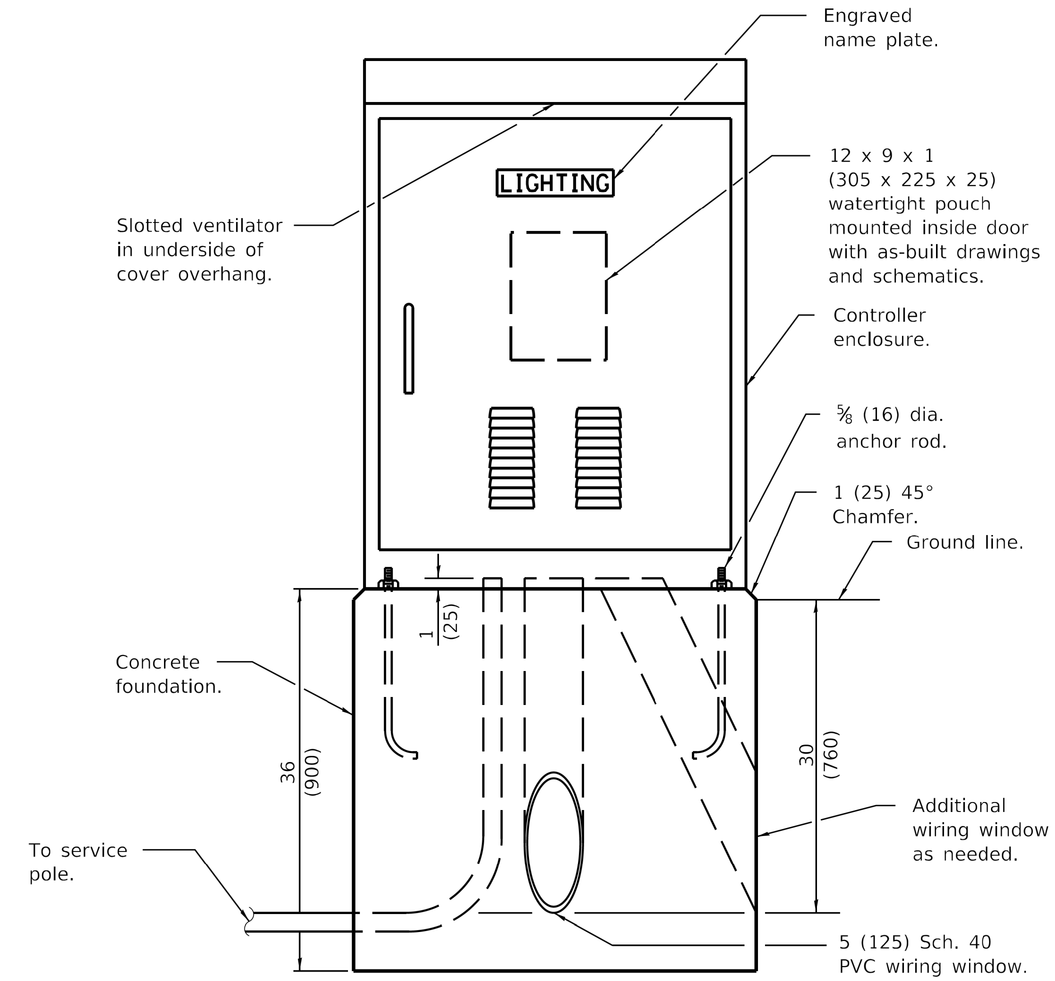
ELECTRIC SERVICE INSTALLATION

(Typical overhead service shown. Cut pole off for underground service and treat cut surface with preservative. Consult utility company standards for exact requirements.)

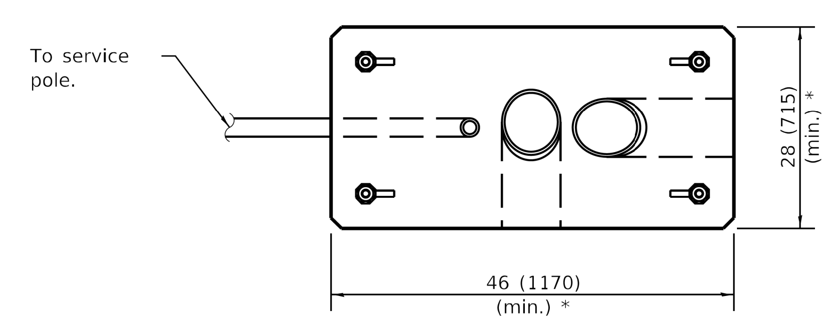
* Size larger as needed.



ANCHOR ROD DETAIL



LIGHTING CONTROLLER



FOUNDATION (PLAN)

(Work pad not shown.)

* Size larger as needed.

All dimensions are in inches (millimeters) unless otherwise shown.

BURNS McDONNELL	USER NAME = eckay	DESIGNED - EE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NAVIGATION OBSTRUCTION LIGHTING CONTROLLER 240V - 1 OF 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			REVISED -			180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	139
	PLOT SCALE = 0:2.4000 ':" / in.	CHECKED - BH	REVISED -			CONTRACT NO. 66F08				
	PLOT DATE = 10/16/2019		REVISED -		SCALE: SHEET LTG-2 OF LTG-4 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

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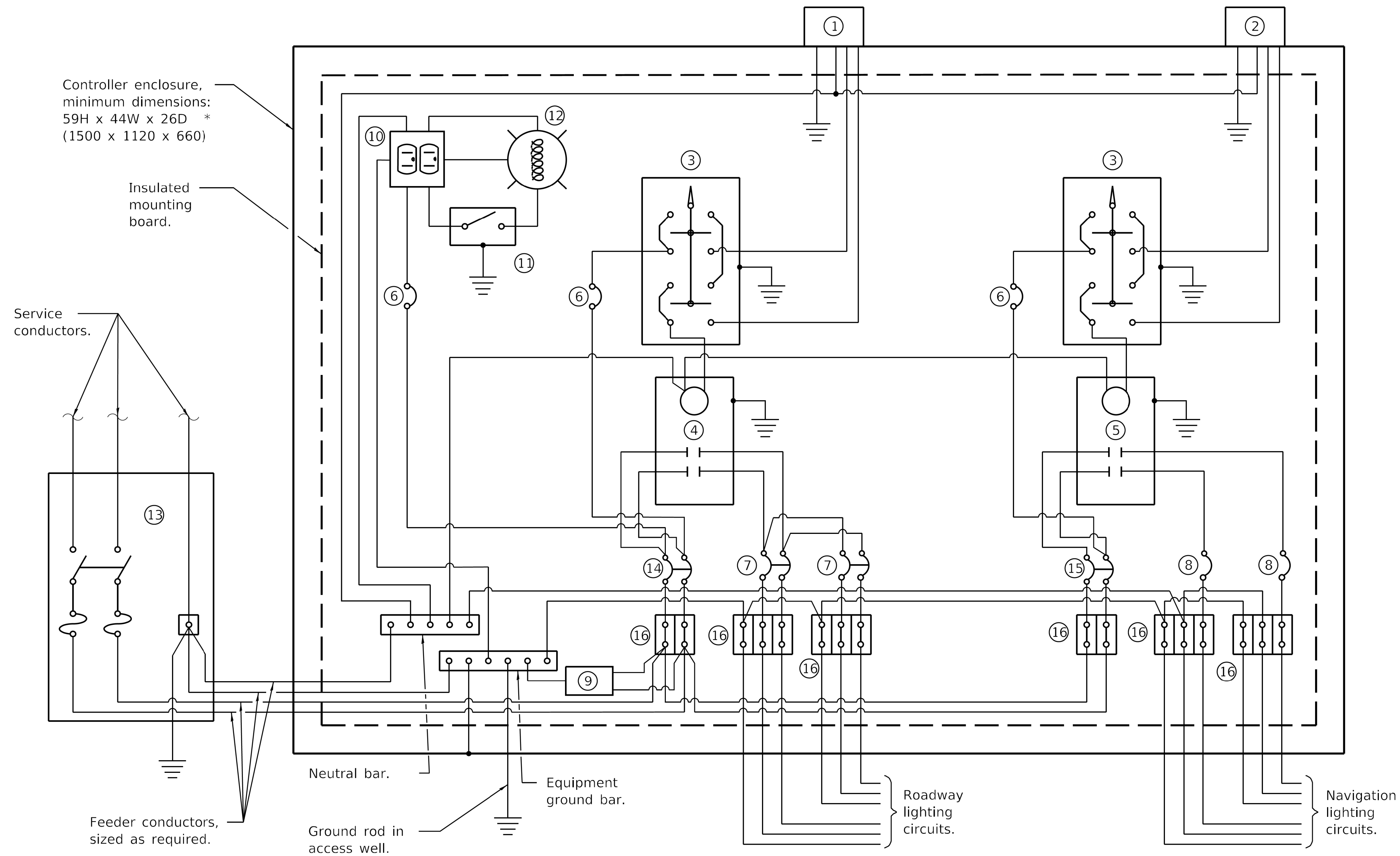

1. Photocell with integral surge arrester for roadway lighting.
2. Photocell with integral surge arrester for navigation lighting.
3. HAND-OFF-AUTO selector switch.
4. 100 amp*, electrically held contactor.
5. 60 amp*, electrically held contactor.
6. 15 amp, 1-pole circuit breaker.
7. 20 amp*, 2-pole circuit breaker (two spares required but not shown).
8. 20 amp*, single-pole circuit breaker (two shown, quantity as required).
9. Surge arrester.
10. GFCI duplex receptacle.
11. Single-pole, single-throw switch.
12. Incandescent luminaire, enclosed and gasketted with 100 watt lamp.
13. Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
14. 60 amp*, 2-pole circuit breaker.
15. 30 amp*, 2-pole circuit breaker.
16. Terminal block sized for conductors as shown on plans.

* Size larger as needed.

CONTROL SCHEMATIC

BURNS McDONNELL	USER NAME = eckay	DESIGNED - EE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NAVIGATION OBSTRUCTION LIGHTING CONTROLLER 240V - 2 OF 2
			REVISED -		
	PLOT SCALE = 0:2.4000 ':' / in.	CHECKED - BH	REVISED -		
	PLOT DATE = 10/16/2019		REVISED -		SCALE: SHEET LTG-3 OF LTG-4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	140
		CONTRACT NO. 66F08		
		ILLINOIS FED. AID PROJECT		

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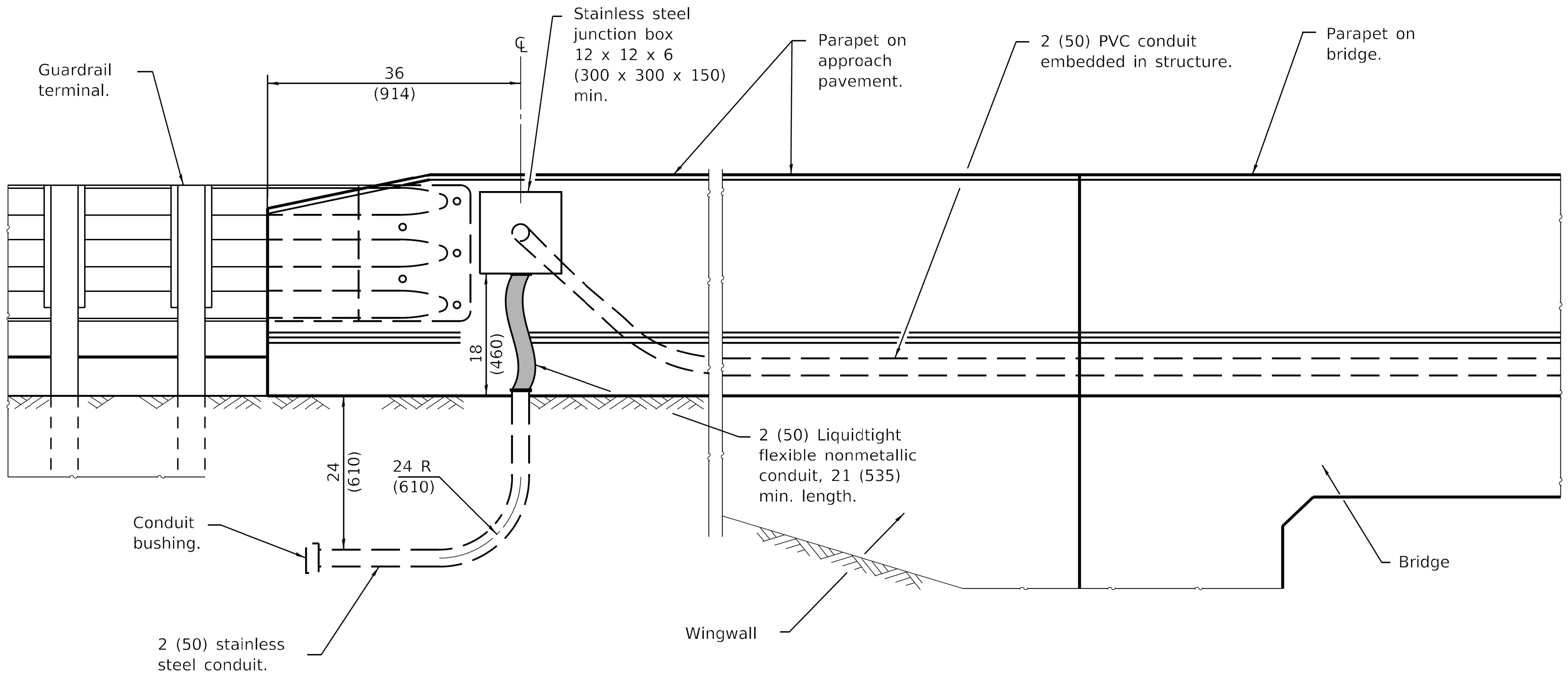
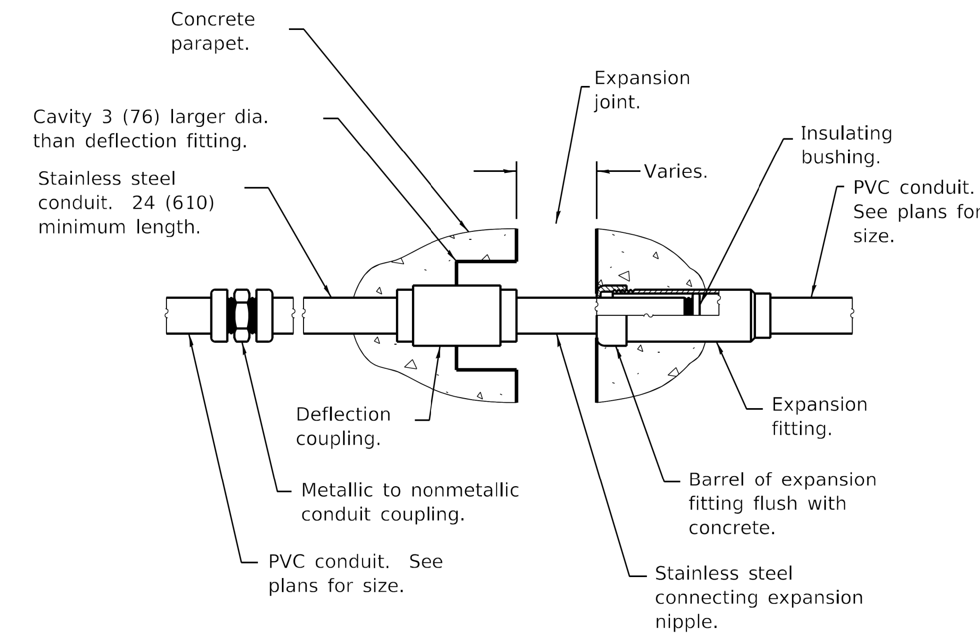
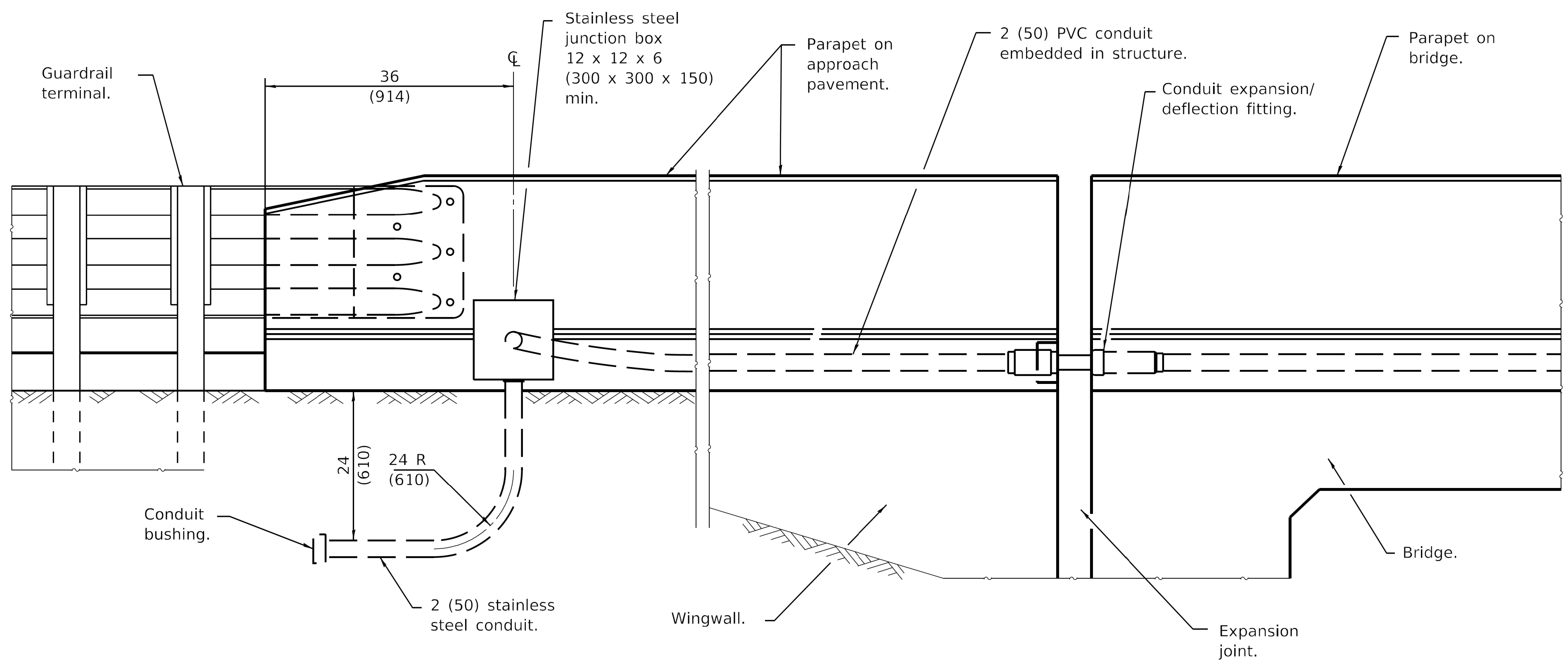


INTEGRAL/SEMI-INTEGRAL ABUTMENT WITH PARAPET ON APPROACH PAVEMENT



COMBINATION EXPANSION/ DEFLECTION FITTING



JOINTED ABUTMENT WITH PARAPET ON APPROACH PAVEMENT

GENERAL NOTES

The barrel in the expansion fitting shall be fully embedded in the concrete on one side of the expansion joint. One half the length of the deflection fitting shall be embedded in the concrete on the other side of the expansion joint.

The Contractor shall install combination expansion deflection fittings at all bridge expansion joints.

With the approval of the Engineer, the Contractor may substitute two 12 x 12 x 6 (300 x 300 x 150) min. stainless steel junction boxes attached to back of wall and connected with liquidtight flexible nonmetallic conduit for all expasion joints.

All dimensions are in inches (millimeters) unless otherwise shown.

BURNS McDONNELL	USER NAME = eckay	DESIGNED - EE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RACEWAY EMBEDED IN STRUCTURE
			REVISED -		
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)BR-1	BUREAU/PUTNAM	145	141
CONTRACT NO. 66F08				
ILLINOIS	FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

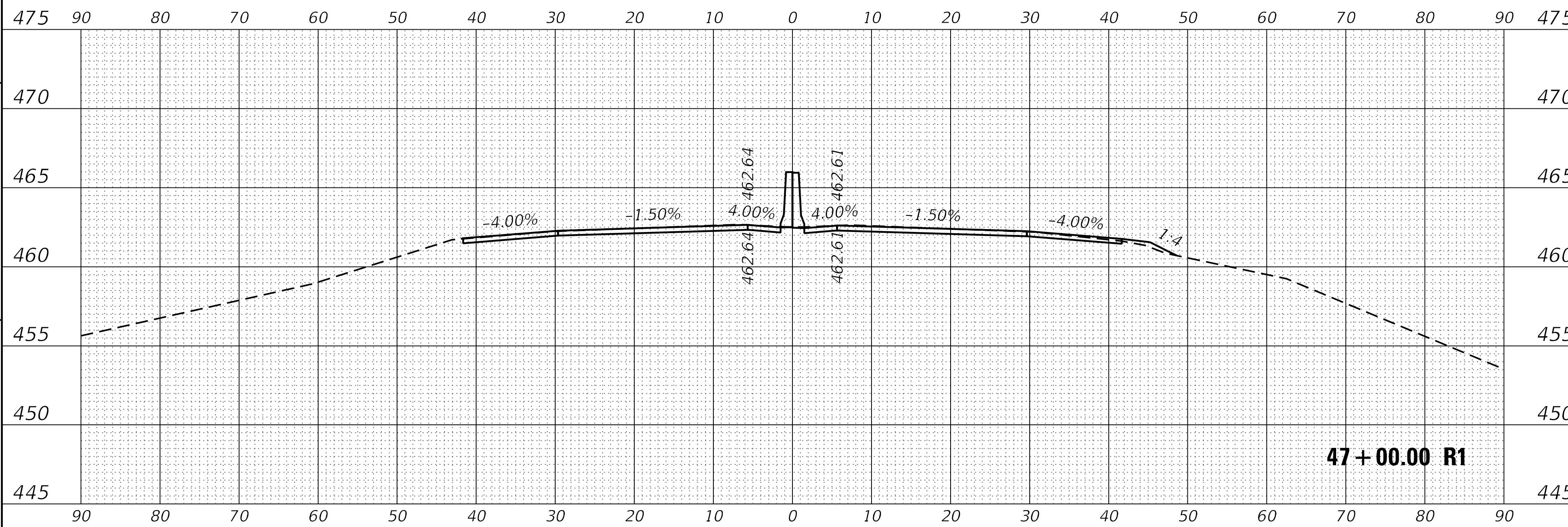
I-180 OVER IL RIVER

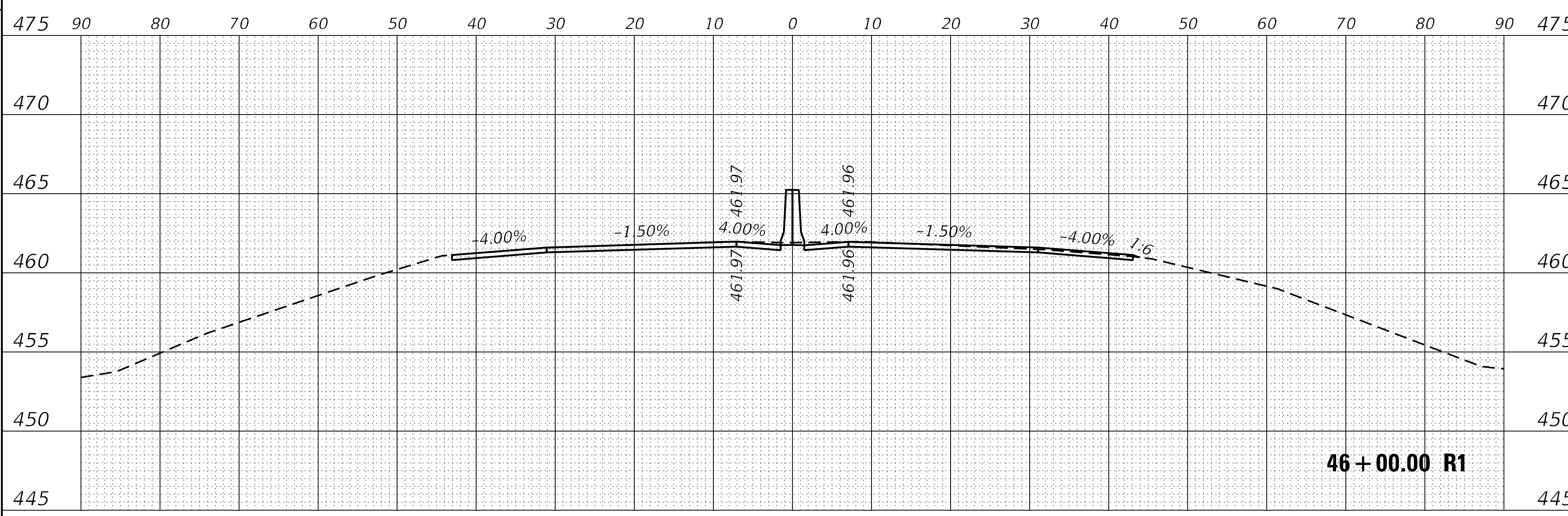
SCALE:
SHEET 1 OF 4 SHEETS STA. 44+00.00 R1 TO STA. 47+00.00 R1

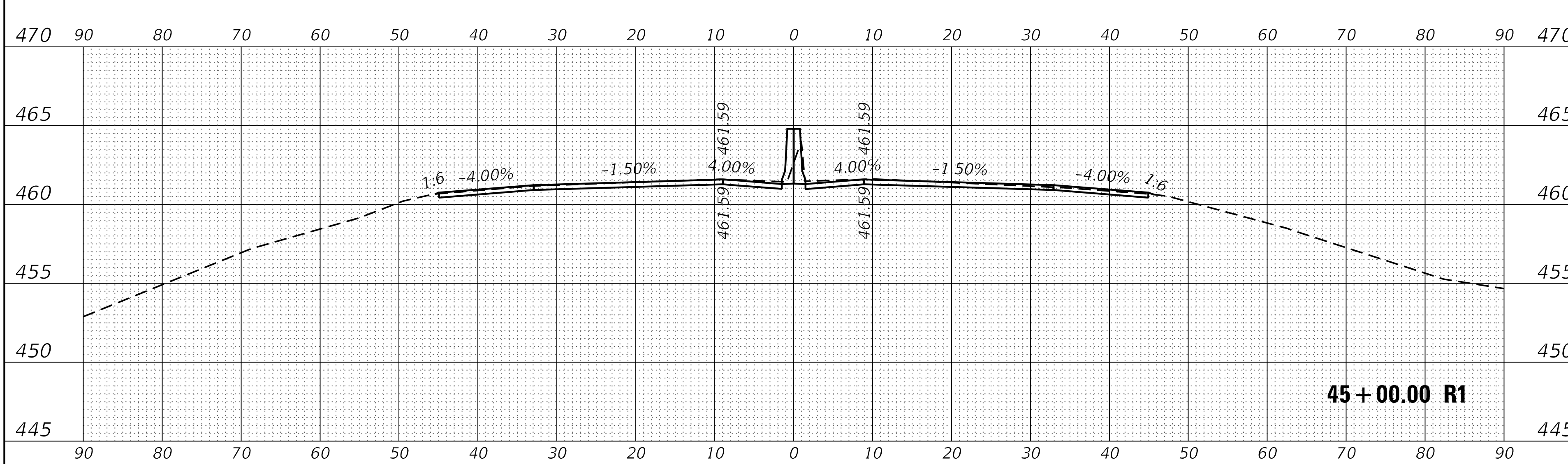
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 78-1)BR-1	*	145	142

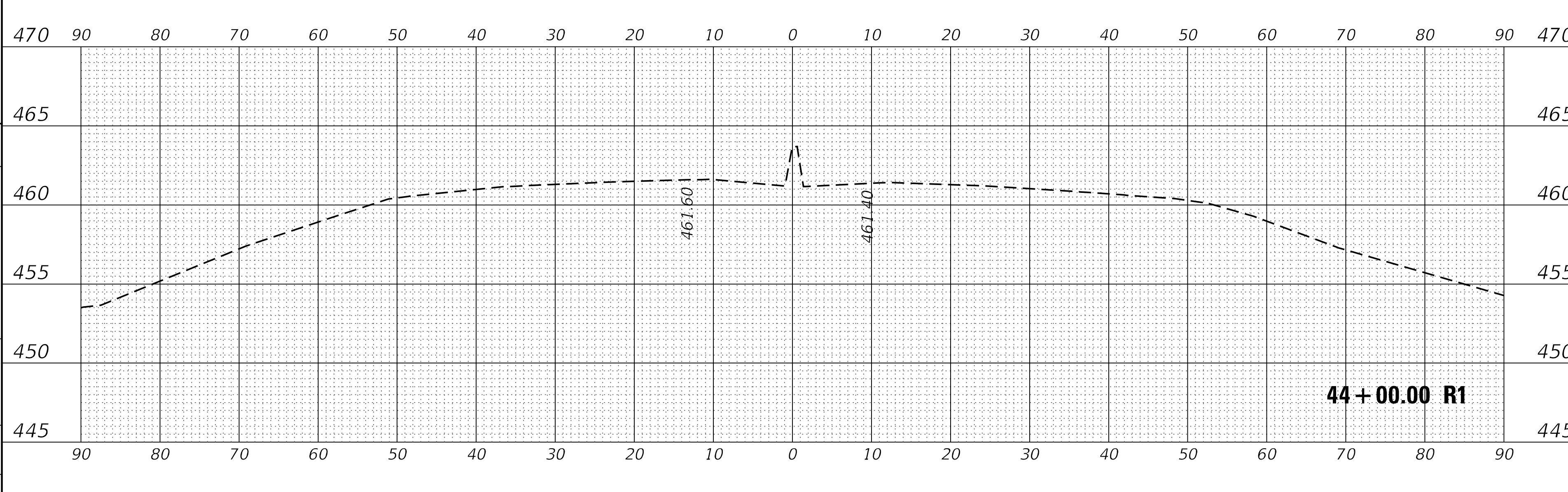
CONTRACT NO. 66F08
ILLINOIS FED. AID PROJECT

*BUREAU & PUTNAM









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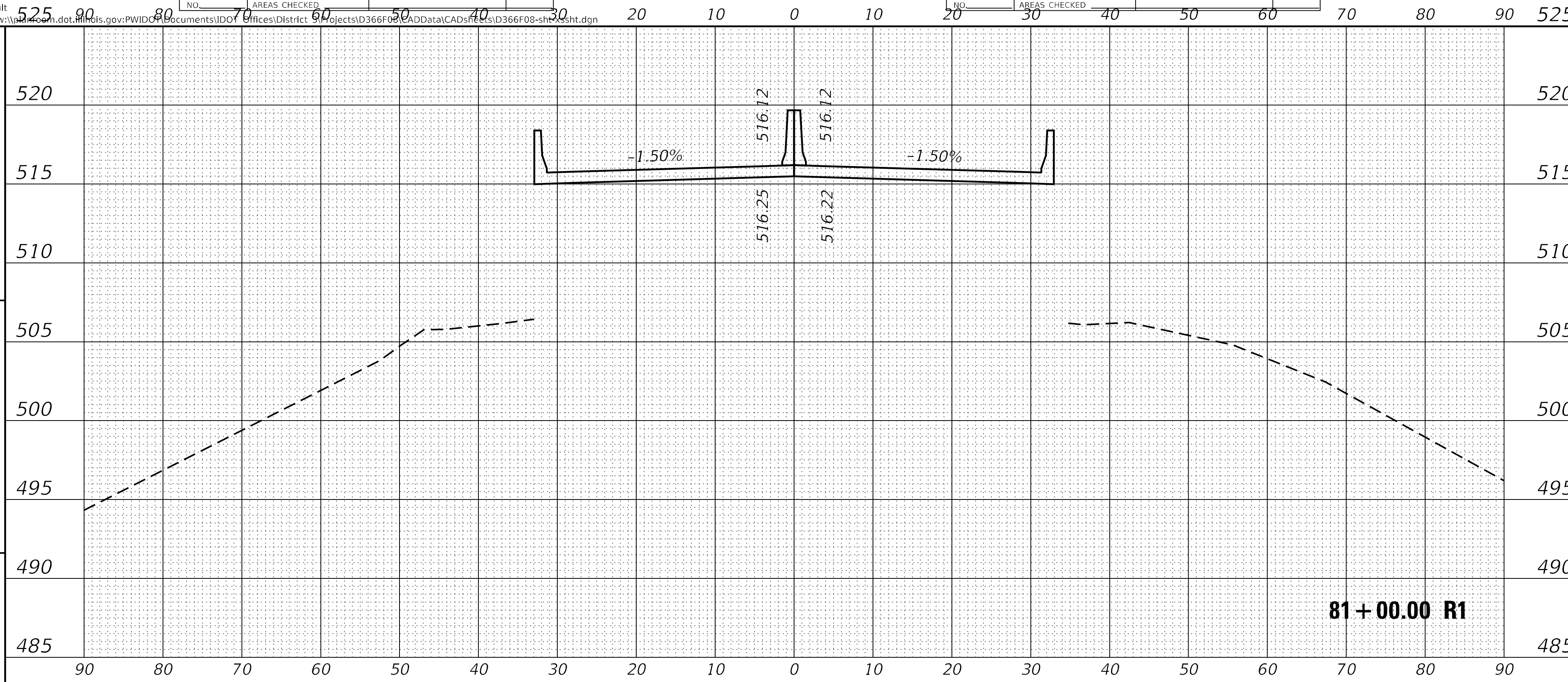

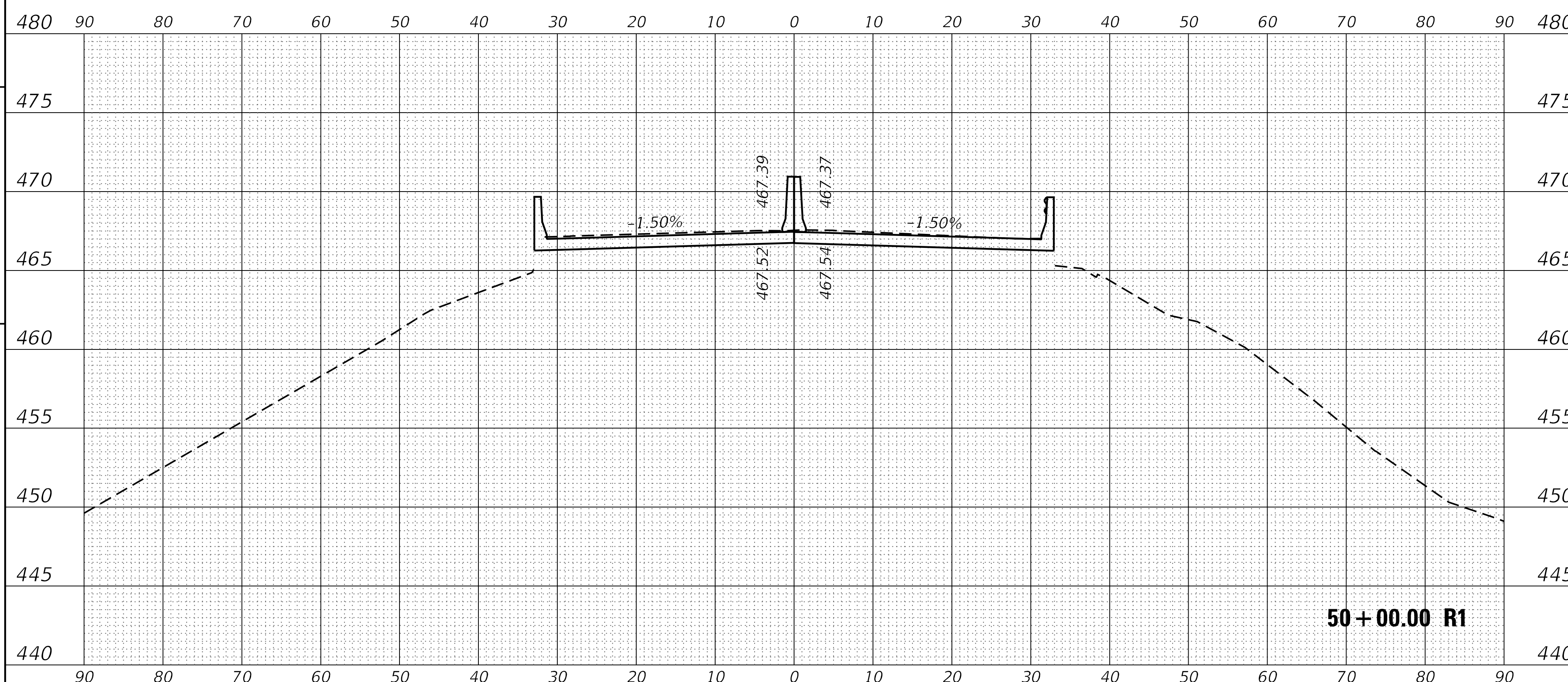

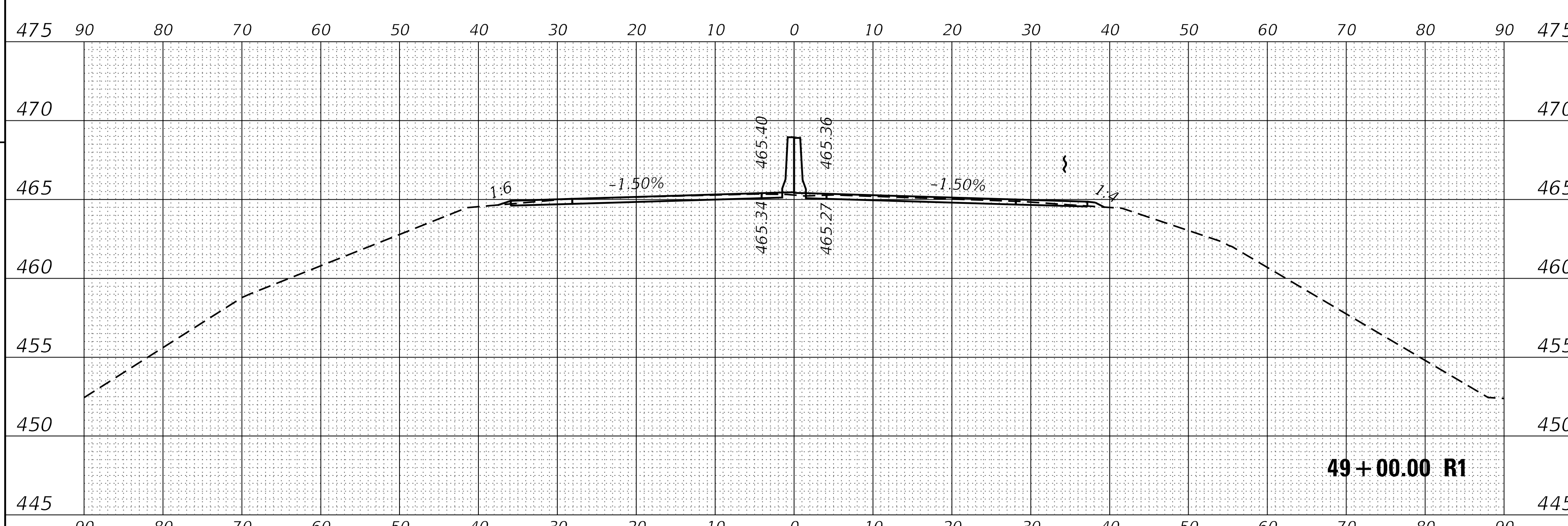

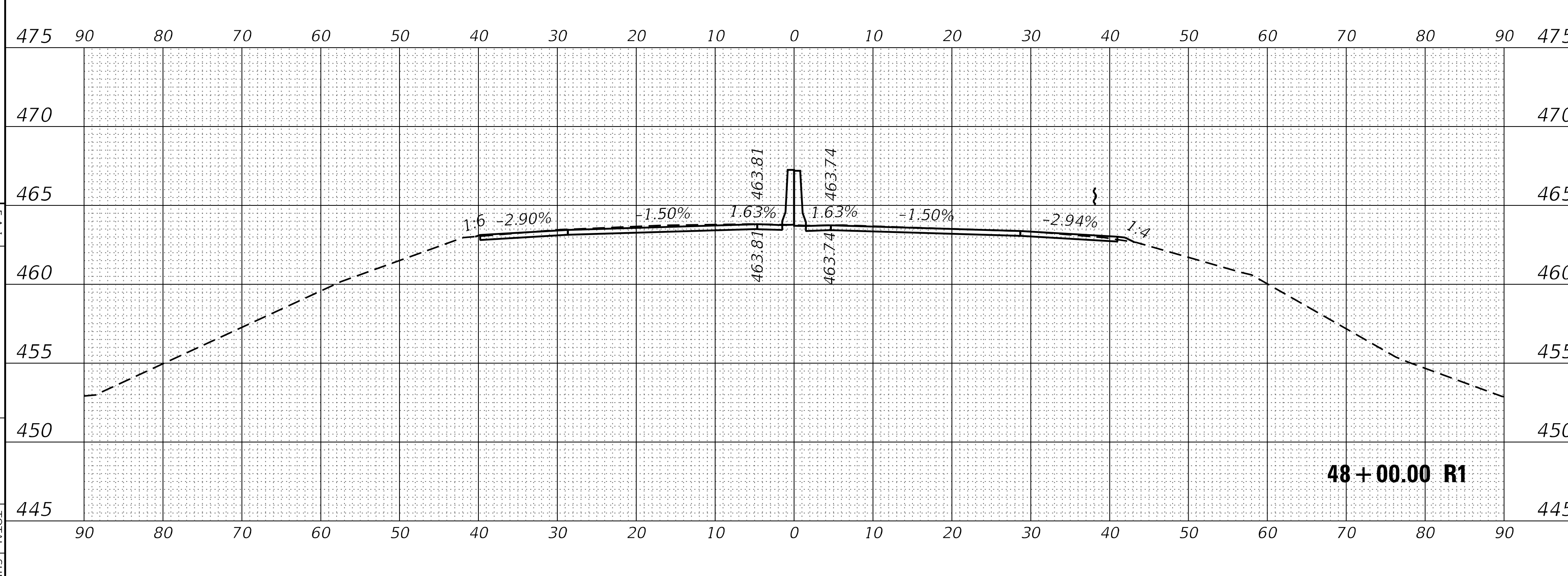

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-180 OVER IL RIVER

SCALE:

SHEET 2 OF 4 SHEETS STA. 48+00.00 R1 TO STA. 81+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 78-1)BR-1	*	145	143

CONTRACT NO. 66F08

ILLINOIS | FED. AID PROJECT

*BUREAU & PUTNAM

ORIGINAL SURVEY		BY	DATE
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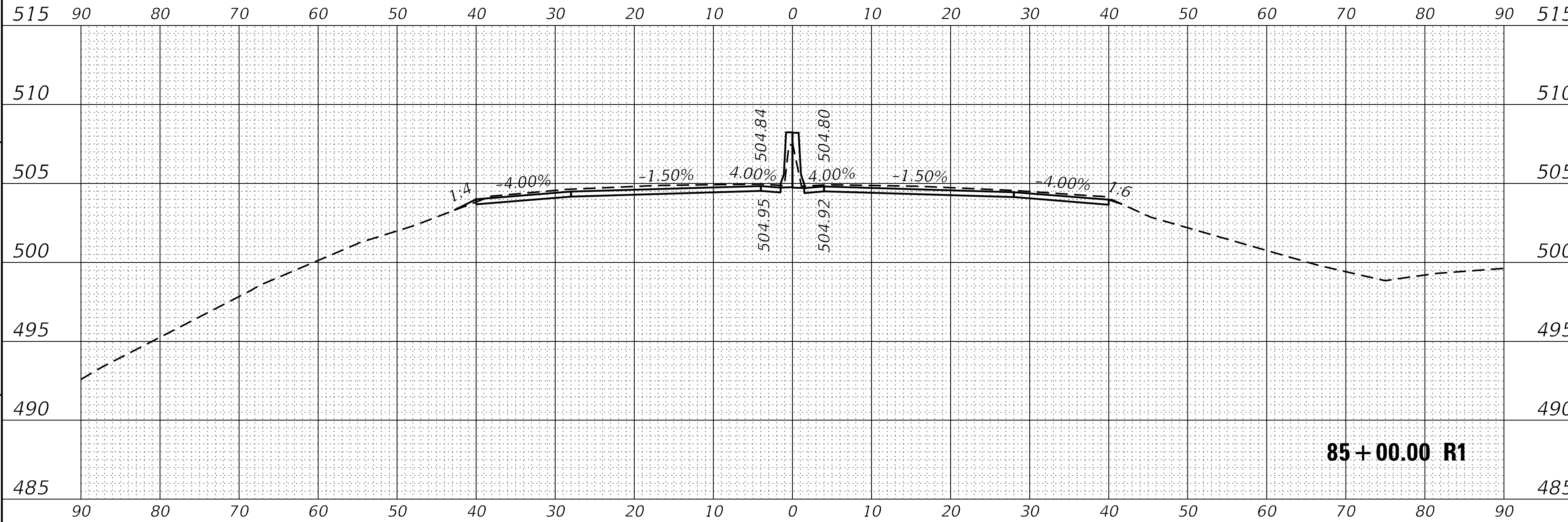

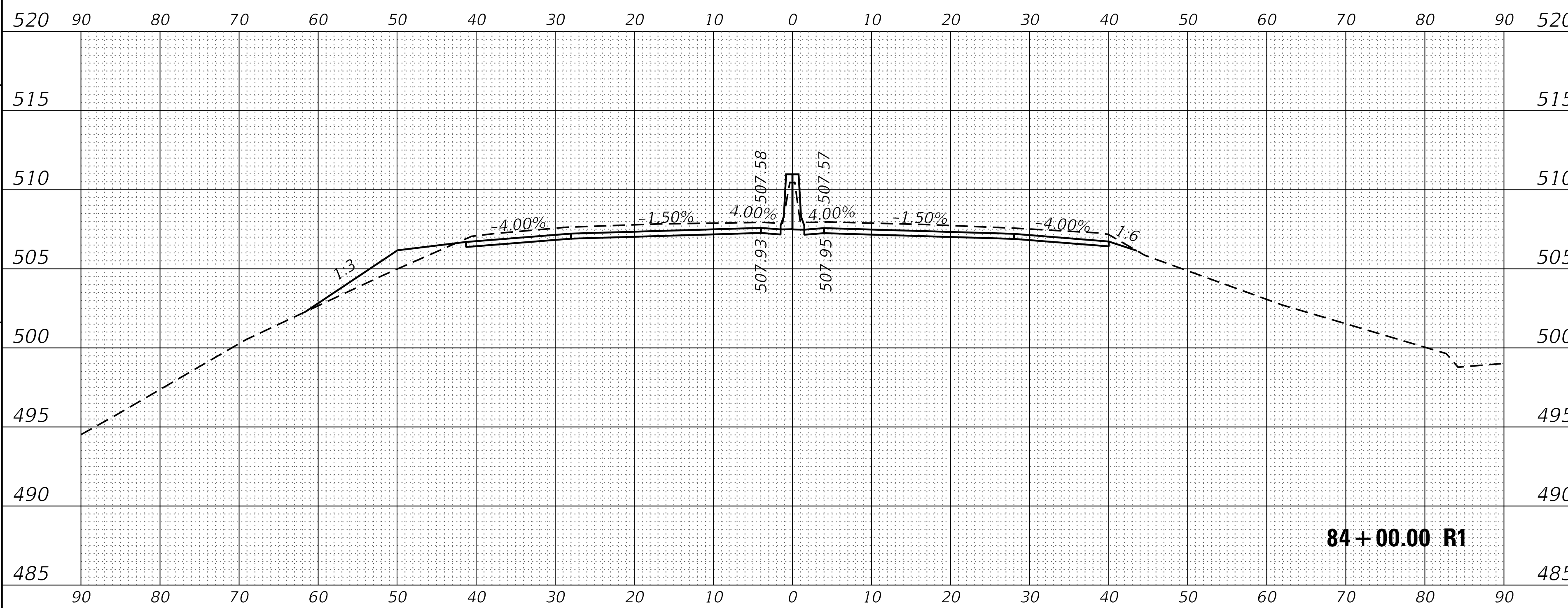

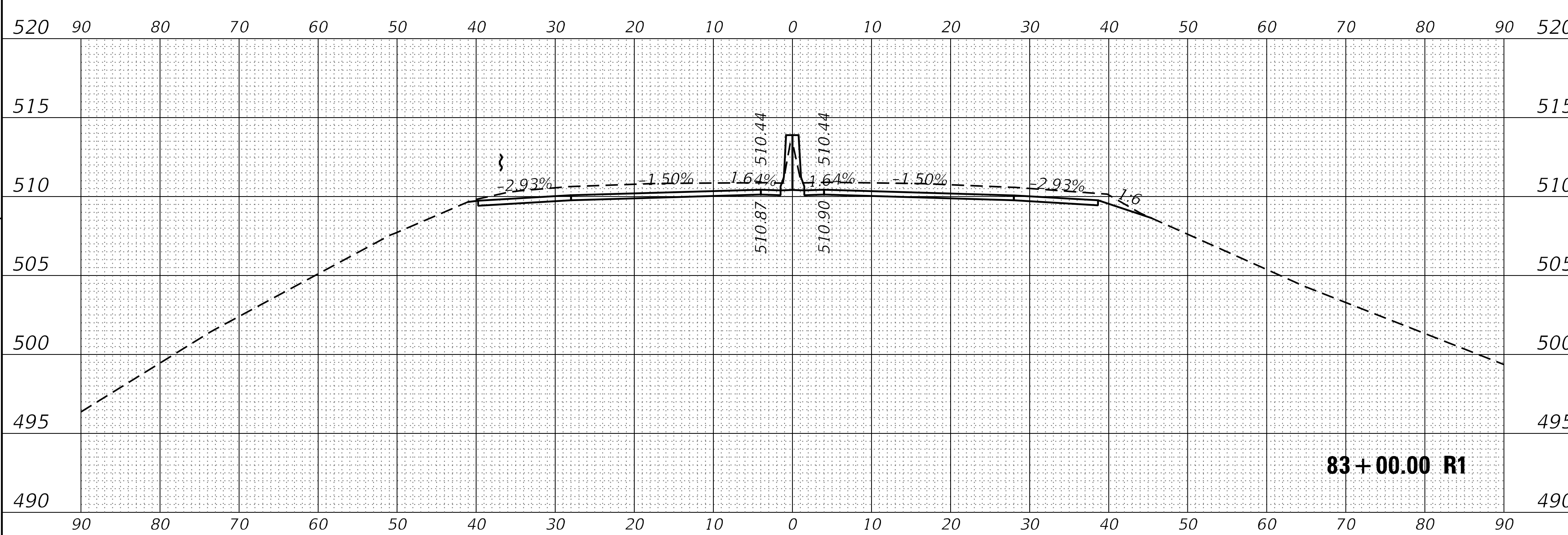

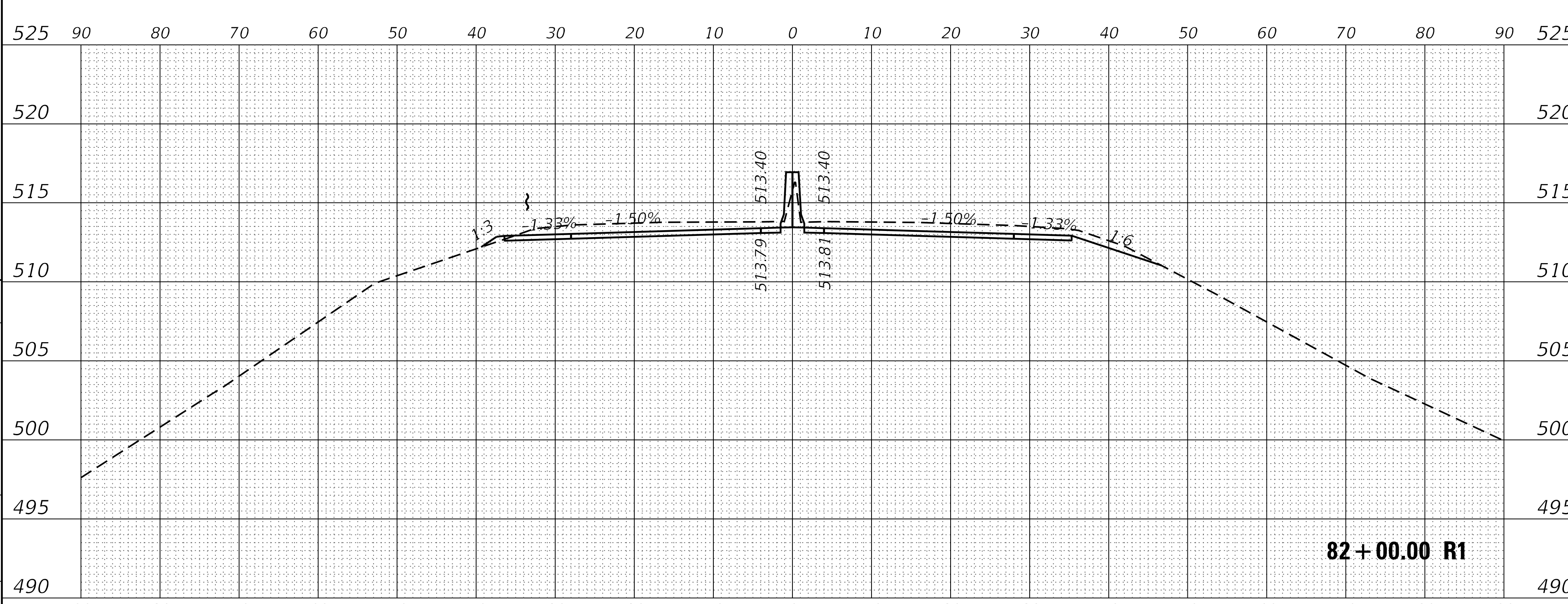

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-180 OVER IL RIVER

SCALE:
SHEET 3 OF 4 SHEETS STA. 82+00.00 R1 TO STA. 85+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 78-1)BR-1	*	145	144

CONTRACT NO. 66F08
ILLINOIS FED. AID PROJECT

*BUREAU & PUTNAM

ORIGINAL SURVEY		BY	DATE
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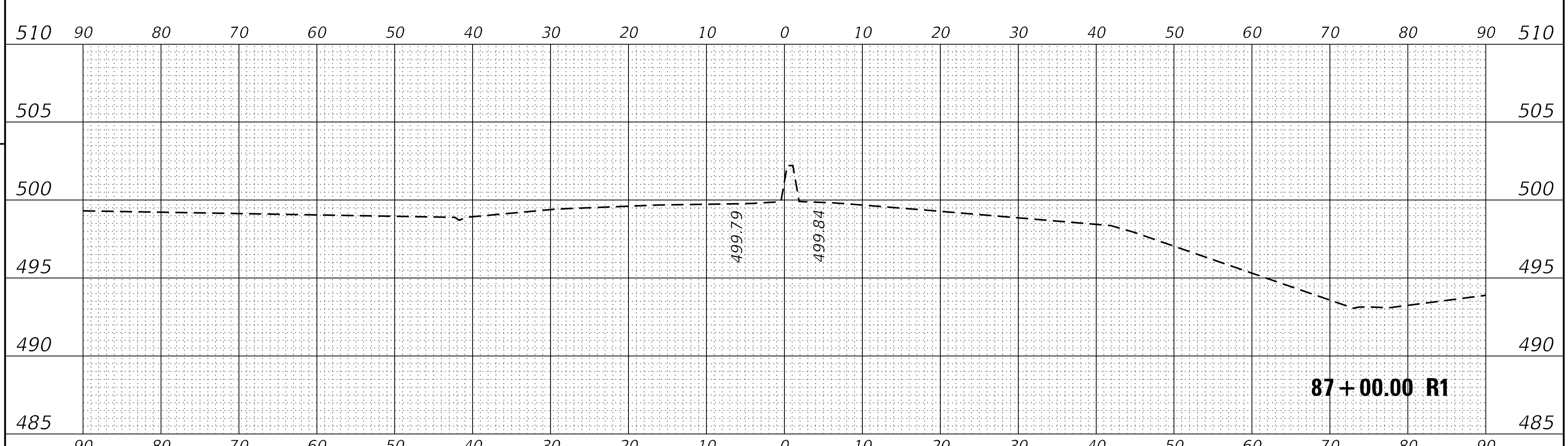
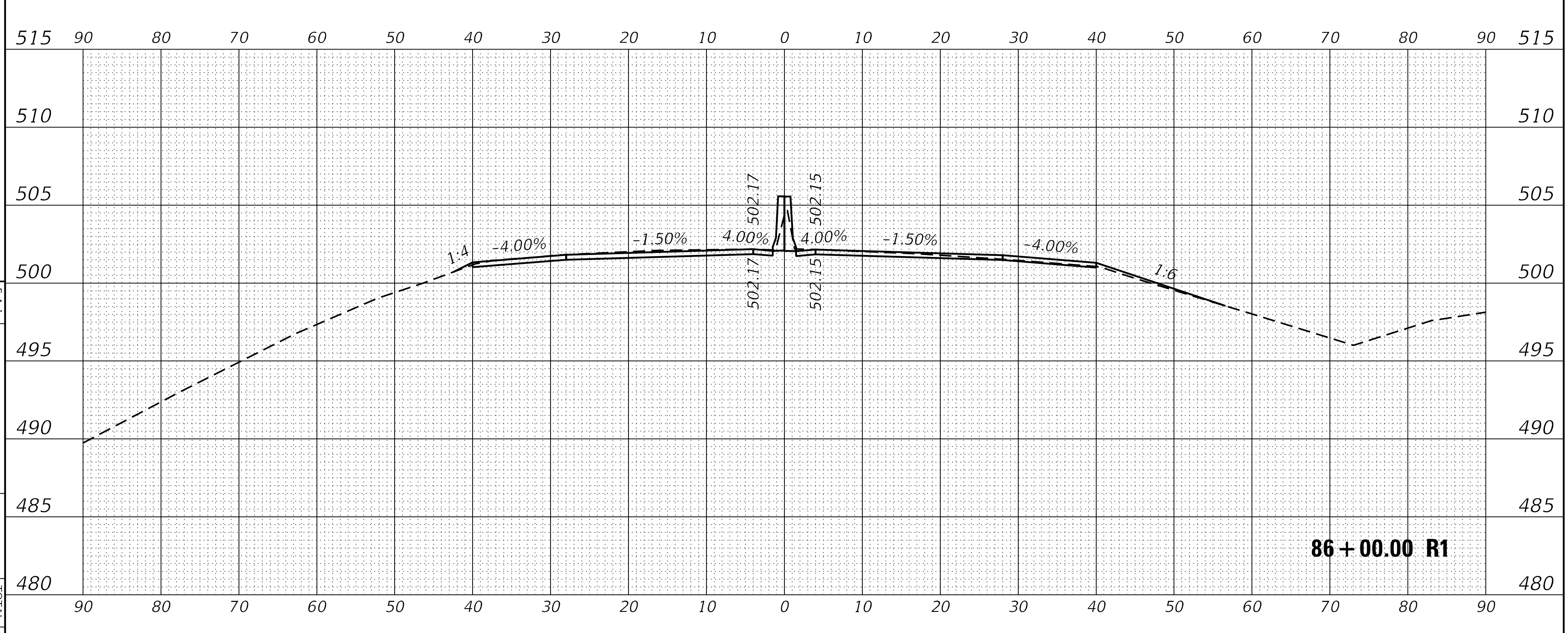
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





I-180 OVER IL RIVER

SCALE: | SHEET 4 OF 4 SHEETS | STA. 86+00.00 R1 TO STA. 87+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 78-1)BR-1	*	145	145

ILLINOIS | FED. AID PROJECT
CONTRACT NO. 66F08

*BUREAU & PUTNAM