

OKS

11-08-2019 LETTING ITEM 045

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* 10 + 1 = 11 TOTAL SHEETS

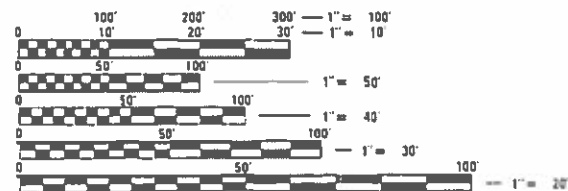
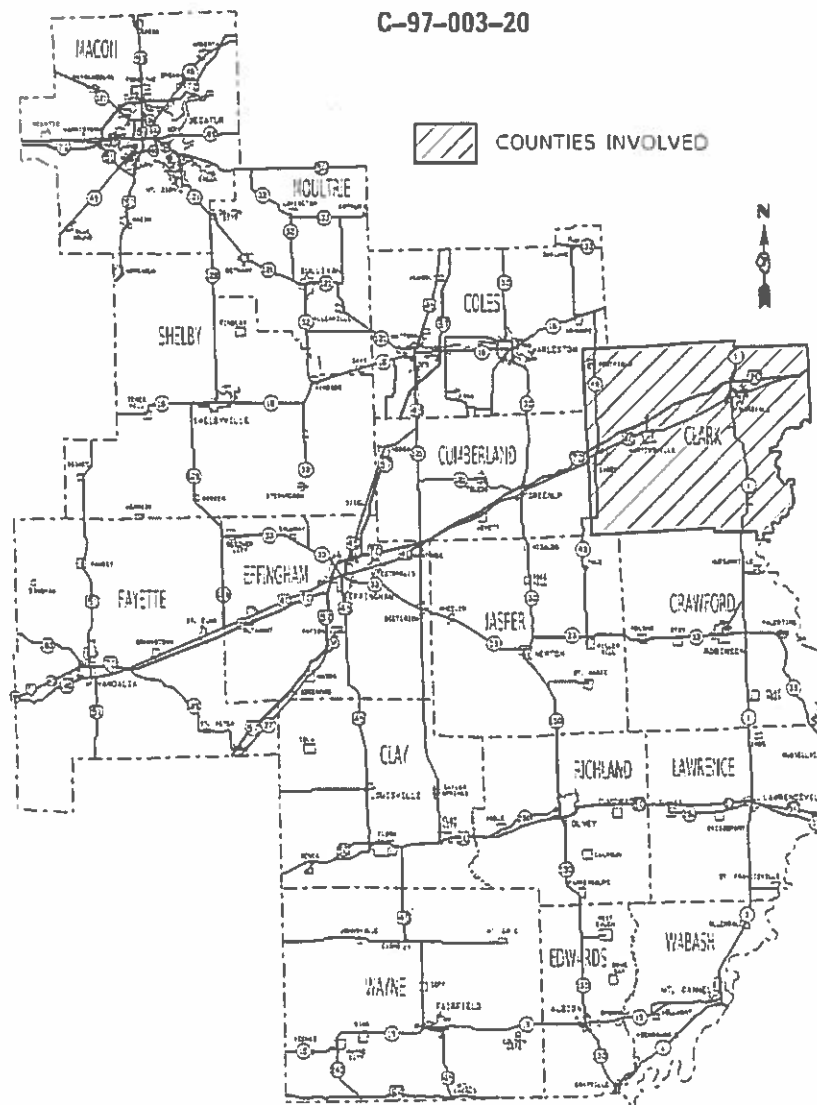
P.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	
			TO	NO.
70	*	CLARK	10	1
ILLINOIS CONTRACT NO. 74927				

D7 BRIDGE PAINTING 2020-2

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAI ROUTE 70 (I-70)
SECTION D7 BRIDGE PAINTING 2020-2
PROJECT NHPP-78VV(775)
BRIDGE PAINTING
CLARK COUNTY



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: THOMAS RONAN
PROJECT MANAGER: THOMAS RONAN
PHONE: (217)-342-8320
CONTRACT NO. 74927

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 13 2019
Jeffrey P. Myer
REGIONAL ENGINEER

Oct 4 2019
Paul P. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 4 2019
Paul P. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTIONS,
3	SUMMARY OF QUANTITIES
4	LOCATION MAP
* 5-10	EXISTING STRUCTURE PLANS
	* INCLUDES SHEET 7A

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 10:

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS >= 45 MPH
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTI-LANE AT ENTRANCE OR EXIT RAMP
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 2 LOCATIONS ON INTERSTATE 70 IN CLARK COUNTY IN DISTRICT 7.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING THE BRIDGES AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

THE STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS SPECIFIED IN THE PLANS AND THE SPECIAL PROVISIONS.

ALL DECK DRAINS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THEIR OWN EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ONLY STRUCTURAL STEEL IS TO BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM BEING PAINTED. ALL PAINT AND OVERSPRAY WILL BE REMOVED AT THE CONTRACTORS EXPENSE.

THE SSPC QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED FOR THIS PROJECT.

BRIDGE LOCATION DESCRIPTIONS

LOCATION #1

BRIDGE # 1
 ROUTE: FAI 70
 MARKED: I-70
 SECTION: 12-54HB-2
 STATION: 463+22.61
 STRUCTURE NUMBER: 012-0025

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (9 Beams)
 LOCATION: 2 Miles West of the State Line
 FEATURE CARRIED/SPANNED: US 40 over I-70

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSELL 5B 7/1.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All structural steel including beams, bearings and diaphragms, shall be cleaned by SSPC-SP10-Near White Metal Blast Cleaning.

The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

Three air monitors will be required at this location.

LOCATION #2

BRIDGE # 2
 ROUTE: FAI 70
 MARKED: I-70
 SECTION: 12-52HB-2
 STATION: 1603+60.82
 STRUCTURE NUMBER: 012-0041

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (4 Beams)
 LOCATION: 0.75 Miles West of Illinois Route 1
 FEATURE CARRIED/SPANNED: TR 107 over I-70

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSELL 5B 7/1.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All structural steel including beams, bearings and diaphragms, shall be cleaned by SSPC-SP10-Near White Metal Blast Cleaning.

The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

One air monitor will be required at this location.

MODEL: Default
 FILE NAME: pw:\planroom.dat\illinois.gov\PWIDOT\Documents\DOT_Offices\District_7\Projects\74927\CADData\CADsheets\074927-shc-gemnote.dgn

* D7 BRIDGE PAINTING 2020-2

REV. - MS

USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES AND LOCATION DESCRIPTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			70	*	CLARK	10	2	
PLOT DATE = 8/14/2019	CHECKED -	REVISED -			CONTRACT NO. 74927					
	DATE -	REVISED -			SCALE: N/A	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

90% FED
10% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				0047		
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	4	4		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1600	1600		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1600	1600		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	480	480		

90% FED
10% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				0047		
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	1		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1		
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1		

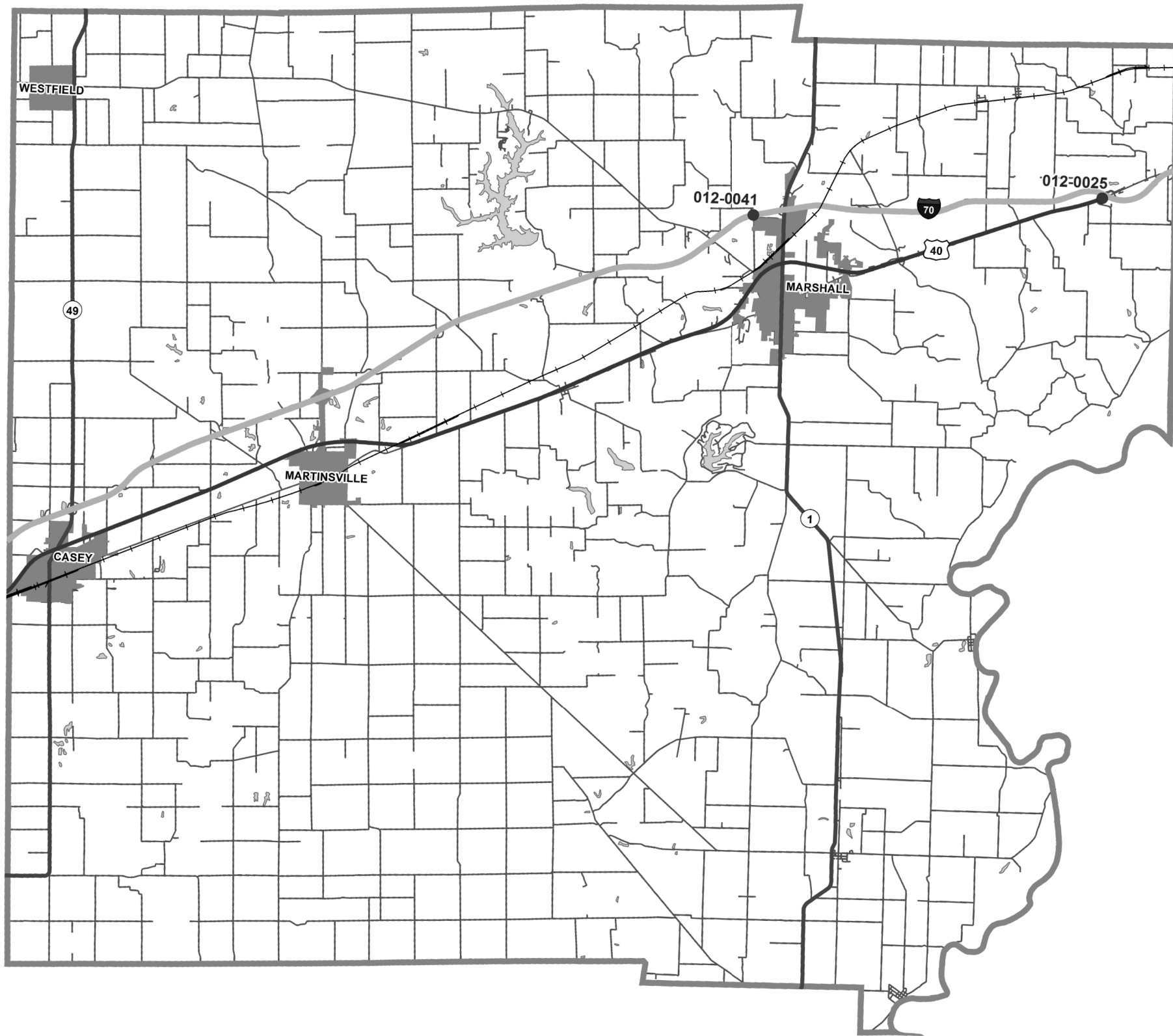
MODEL: Default
FILE: Model - Publications\room.dwg
PROJECT: 74927\CA00Data\CAD\Sheet\DOT_74927-418-S006.dwg

USER NAME = steffemk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISIED -
PLOT DATE = 8/14/2019	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 1 OF 1 SHEETS STA. TO STA.

* D7 BRIDGE PAINTING 2020-2					
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
70	*	CLARK	10	3	
			CONTRACT NO. 74927		
			ILLINOIS FED. AID PROJECT		



MODEL: Default
 FILE: \\nas01c.psu.edu\pub\lansom.d\at\illinois.gov\PI\DOT\Documents\DOT_Offices\District_7\Projects\74927\CADD\DATA\CAD\Sheets\DOT_74927-sheet1bomaps.dgn

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

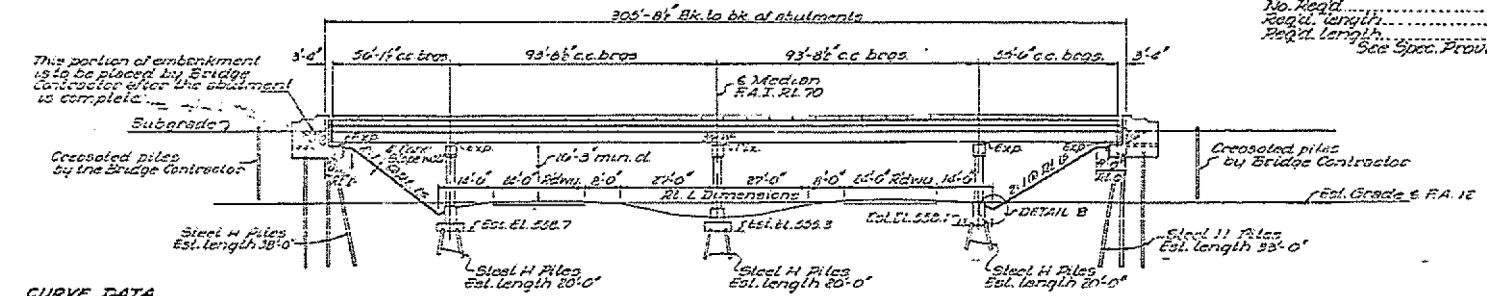
* D7 BRIDGE PAINTING 2020-2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	CLARK	10	4
			CONTRACT NO. 74927	
ILLINOIS FED. AID PROJECT				

E.M. Weaver: A triangulation station disk (U.S.C. & G.S.)
 84' right of station 467 + 25 (F.A.I. 70) Elev 561.17

DATE	NO.	BY	CHKD.	APP.	SCALE
F.A.I. 70	113	Clark	W		
DATE	NO.	BY	CHKD.	APP.	SCALE

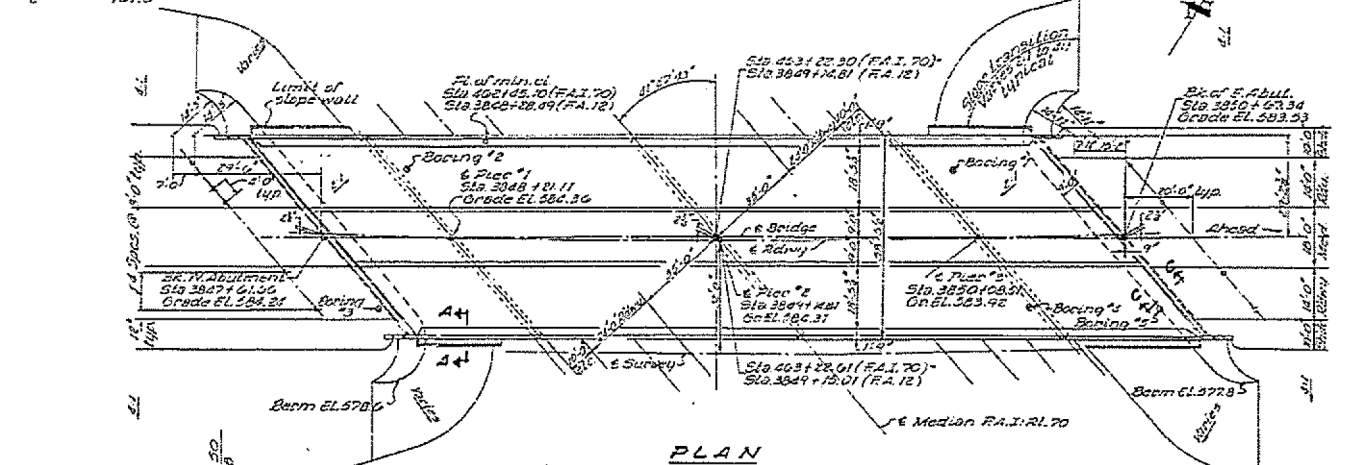
APPROACH PILE DATA
 Type: Crossed P.
 No. Piles: 20
 Reqd. length: 20' Abut. 10'
 Reqd. length: 10' E. Abut. 17'
 See Spec. Provisions



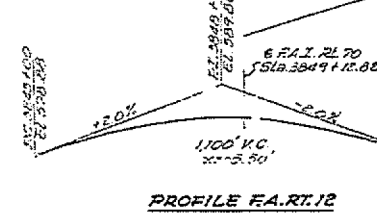
CURVE DATA

Existing F.A.I. 70	Sta. 3626 + 60.00
137.00'	
0.14'	
26.525 6'	
3.819 6'	
5.014 3'	
101.3'	

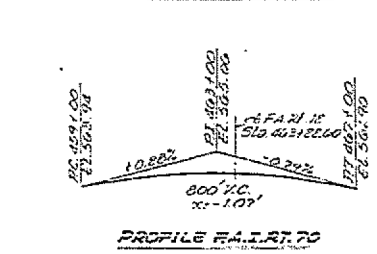
ELEVATION



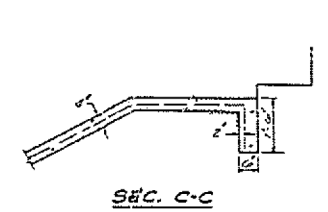
PLAN



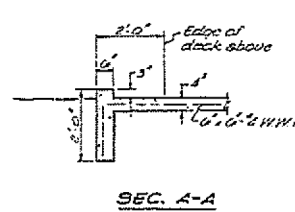
PROFILE F.A.I. 70



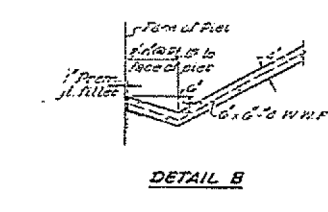
PROFILE F.A.I. 70



SEC. C-C



SEC. A-A



DETAIL B

STATION 463 + 22.61
 BUILT 196 BY
 STATE OF ILLINOIS
 F.A.I. 70 SEC 12-54HB-2
 RA. PROJECT 11670-4 (62)
 LOADING HS20

NAME PLATE
 See SLA 2119-1 (6 Reg'd)

GENERAL NOTES

Class X Concrete shall be used throughout. The aggregate for Class X Concrete used in the parapet and end posts shall be free from chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Article 31.17 of the Standard Specifications and shall be poured in one continuous operation between construction joints.

Rivets 2" open holes 1/4" unless noted.

High strength steel bolts may be substituted for field rivets in accordance with Article 34.9(f) of the Standard Specifications. Anchor bolts shall be set before riveting or bolting diaphragms cover plates.

All holes for splices shall be punched 1/8" and reamed to proper size (1 3/8" in web and 1 1/2" in flange) with all stringers assembled in the shop in proper position. Leave assembled in shop for inspection.

Except as otherwise provided, all structural steel shall receive one (1) shop coat of red lead paint and two (2) field coats of red lead paint. See General Provisions.

All paint shall be furnished and applied by the Contractor involved. The Contractor shall drive 2 steel lead piles 1 at the West abut. & 1 at Pier 2, each in a permanent location as directed by the Engineer before ordering the remainder of the piles.

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

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint. The contact surface shall be given one coat of red lead paint. Anchor studs shall not be painted.

Expansion guards are included in the quantity of structural steel. Estimated weight = 2,570 lbs.

All structural steel shall conform to ASTM A-36 Specification. The slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 68 lbs per 100 sq ft.

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

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

Slud shear connectors on the beam flanges shall be placed in the field after the steel has been erected and the deck forms are in place.

FIELD WEARERS OF CONCRETE APPROXIMATED TO THE BOTTOM FLANGE OR FOR A DISTANCE OF 1/2 OF THE OPEN SPACE FROM FIELD SUPPORTS ON THE TOP FLANGES OF BEAMS OR CHANNELS WILL NOT BE PERMITTED. FIELD WEARERS IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Class A Excavation	Cu Yds			348
Class X Concrete	Cu Yds	495.5	4826	9761
Structural Steel	Lbs.	495,000		495,000
Reinforcement Bars	Lbs.	154,160	55,280	214,440
Crossed Piles	Lin. Ft.		330	330
Steel H Piles (R.R.P.C.)	Lin. Ft.		2,209	2,209
Test Piles (Steel)	Each		2	2
Name Plate	Each		2	2
Slope Wall (4')	Sq. Yds			953
Aluminum Handrail	Lin. Ft.		603	603
Protective Coat	Sq. Yds		2,132	2,132
** Bridge Seal Sealant	Lump Sum		1	1

* Class A Excavation includes excavation for Slope Wall.
 ** To be applied at abutments only.

GENERAL PLAN & ELEVATION
 F.A.I. 70 OVER FEDERAL AID INTERSTATE 70
 PROJECT 11670-4 (62) 147
 F.A.I. ROUTE 70 SECTION 12-54HB-2
 CLARK COUNTY
 STATION 463 + 22.61

Per Class X Conc. Sub from 446.6 Cu Yds to 482.6 Cu Yds. Total from 940.1 Cu Yds to 976.1 Cu Yds. Reinf. Super from 135,300# to 154,160# Sub from 53,070# to 55,280#
 Total from 140,370# to 214,440# 5-5-67 A.P.H. Revised 7/20/67 J.B.N. Appx. pile spec. & quant. 429 to 330 Lin. Ft.

FOR INFORMATION ONLY

MODEL: Default
 FILE: 11670-4 (62) 147.dwg
 PROJECT: 11670-4 (62) 147
 OFFICE: 7000
 DATE: 8/14/2019

USER NAME = steffenk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2019	DATE -	REVISED -

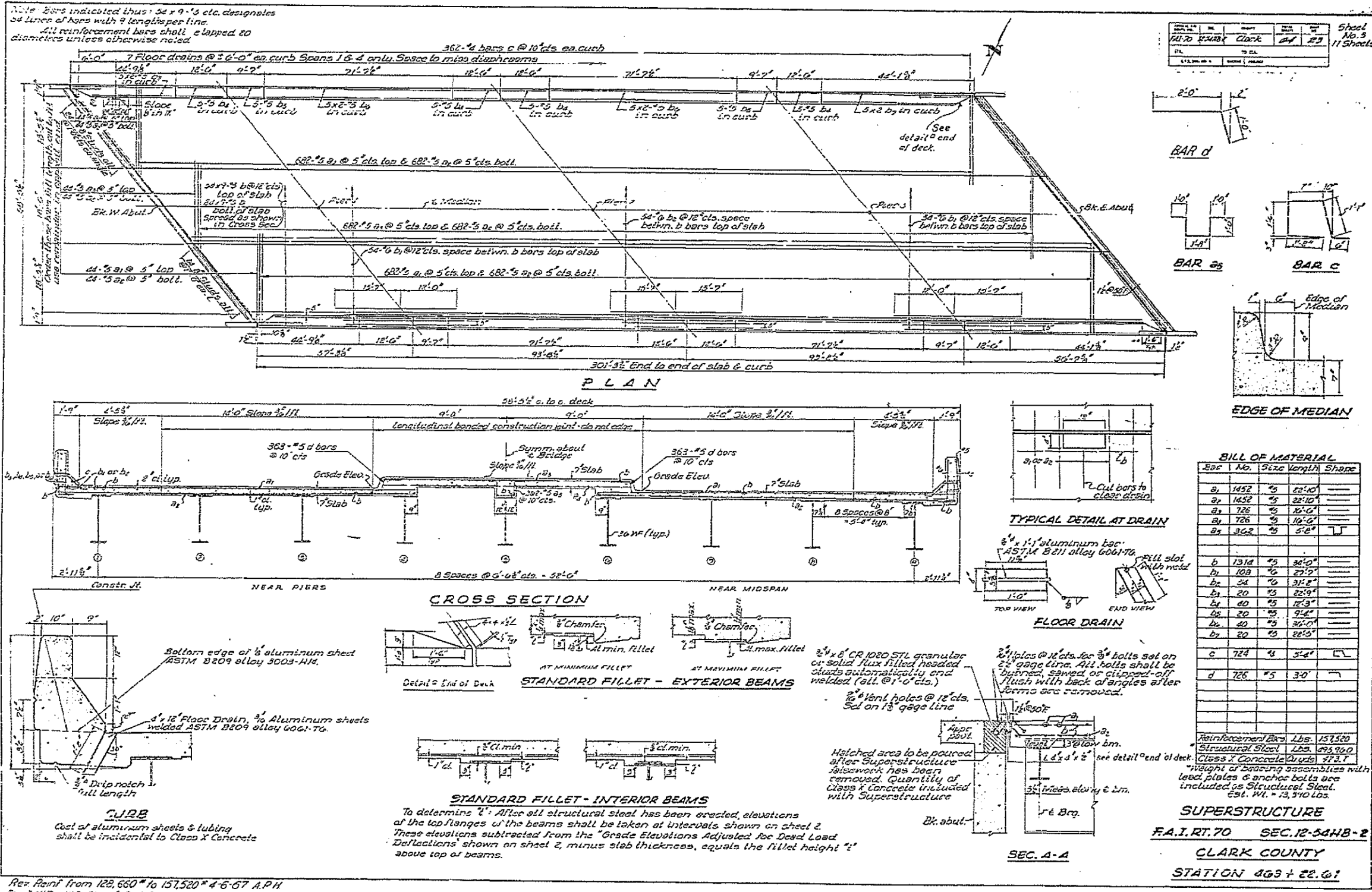
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLAN
 STRUCTURE 012-0025

SCALE: N/A SHEET 1 OF 6 SHEETS STA. TO STA.

* D7 BRIDGE PAINTING 2020-2

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		CLARK	10	5
CONTRACT NO. 74927				
ILLINOIS		FED. AID PROJECT		



FOR INFORMATION ONLY

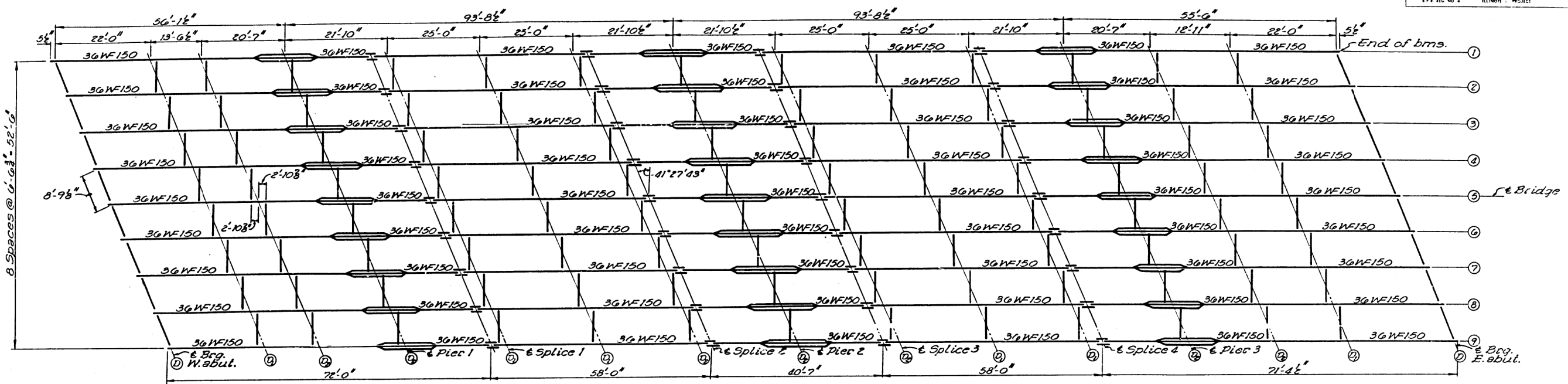
MODEL: Default
 FILE: 14442 - Project: 74927 - Office: District 7
 PROJECT: 74927 - CAD: Data: CAD: Project: 74927 - Sheet: 2 of 11

USER NAME	DESIGNED	REVISED
= steffenk	-	-
	DRAWN	REVISED
	-	-
PLOT SCALE = 100,000' / in.	CHECKED	REVISED
	-	-
PLOT DATE = 8/14/2019	DATE	REVISED
	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN	
STRUCTURE 012-0025	
SCALE: N/A	SHEET 2 OF 6 SHEETS
STA.	TO STA.

* D7 BRIDGE PAINTING 2020-2			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
70		CLARK	10
			6
CONTRACT NO. 74927			
ILLINOIS FED. AID PROJECT			



STRUCTURAL STEEL

TABLE OF ELEVATIONS OF TOP FLANGES OF BEAMS*

Location	Beam 1	2	3	4	5	6	7	8	9
Brq. W. Abut.	583.32	583.44	583.57	583.69	583.81	583.92	583.64	583.55	583.46
Pier #1	583.43	583.53	583.66	583.75	583.86	583.77	583.67	583.57	583.47
Splice #1	583.46	583.56	583.68	583.77	583.85	583.74	583.63	583.50	583.39
Pier #2	583.43	583.52	583.62	583.71	583.80	583.68	583.56	583.44	583.32
Splice #3	583.40	583.48	583.58	583.66	583.75	583.63	583.50	583.38	583.25
Splice #4	583.24	583.31	583.37	583.47	583.54	583.41	583.28	583.14	583.00
Pier #3	583.16	583.23	583.29	583.38	583.44	583.31	583.17	583.03	582.89
Brq. E. Abut.	582.87	582.93	582.99	583.05	583.11	583.96	582.81	582.66	582.51

*Note: Cover & splice plate thickness must be added to elev. to get elev. at top of steel

TABLE OF MOMENTS & REACTIONS

	INTERIOR BEAMS							
	MOMENTS ^{IK}				REACTIONS ^K			
	4Sp.1	Pier 1	5Sp.2	Pier 2	5Sp.3	Pier 3	6Sp.4	E. Abut.
D.L.	132.3	528.3	338.0	791.8	537.2	525.9	123.7	18.4
L.L.	361.9	426.3	497.3	554.8	496.9	435.4	356.8	34.4
Imp.	99.9	109.1	113.8	126.9	113.6	108.9	93.9	9.5
Total	594.1	1073.7	949.1	1473.5	949.7	1070.2	581.4	62.3

TABLE OF MOMENTS & REACTIONS

	EXTERIOR BEAMS							
	MOMENTS ^{IK}				REACTIONS ^K			
	4Sp.1	Pier 1	5Sp.2	Pier 2	5Sp.3	Pier 3	6Sp.4	E. Abut.
D.L.	135.3	540.1	345.5	809.5	346.8	537.0	120.5	18.8
L.L.	354.6	333.1	487.4	293.9	487.0	334.8	349.7	29.5
Imp.	98.0	83.3	111.5	67.6	111.3	83.7	96.8	8.2
Total	597.9	254.5	424.4	1173.0	425.1	525.5	575.0	56.5

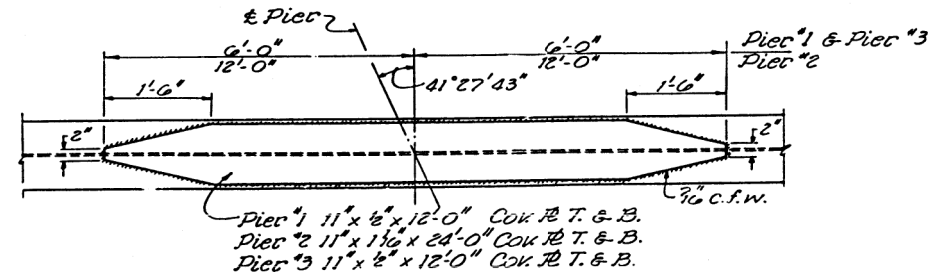
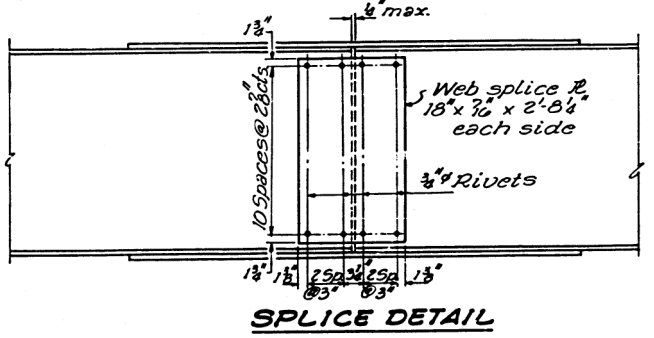
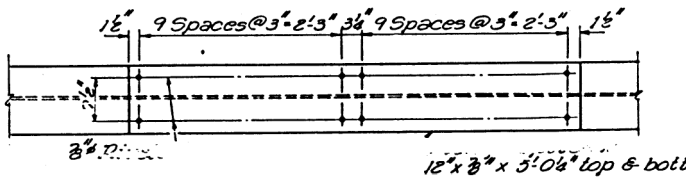


TABLE OF MOMENTS & SHEARS-INT. BEAMS

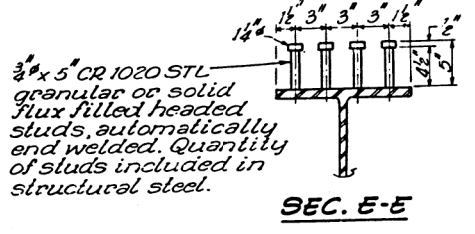
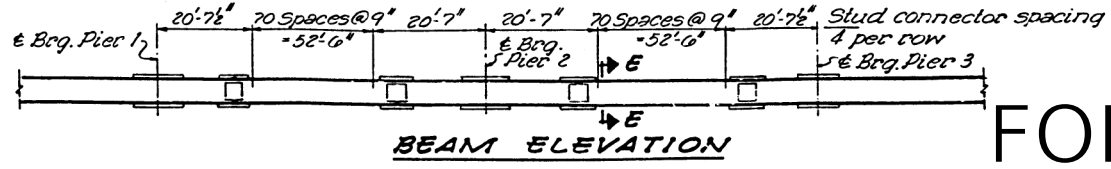
D.L.	Steel Sec. Max. Mom.		
		240.2	
S.D.L.			
	93.0		
L.L.			
	496.9		
Imp.			
	113.6		
Total			
	949.7		
Shear			
	.25L	.5L	.75L
S.D.L.			
	6.1	.7	7.5
L.L.			
	36.3	22.5	31.5
Imp.			
	8.3	5.1	7.2
Total			
	50.7	28.3	46.2

PROPERTIES

STEEL SECTION	
Ib	9012.1
STs	502.9
Sbs	502.9
Properties Section	
LC	1573.4
SBC	687.0

TABLE OF MOMENTS & SHEARS-EXT. BEAMS

D.L.	Steel Sec. Max. Mom.		
		249.3	
S.D.L.			
	96		
L.L.			
	487.0		
Imp.			
	111.3		
Total			
	945.1		
Shear			
	.25L	.5L	.75L
S.D.L.			
	59	.7	7.3
L.L.			
	31.2	19.4	27.1
Imp.			
	7.1	4.4	6.2
Total			
	44.2	21.5	40.6



FOR INFORMATION ONLY

STRUCTURAL STEEL
 F.A.I. RT. 70 SEC. 12-54HB-2
 CLARK COUNTY
 STATION 403+22.61

MODEL: Default
 FILE: 140123.ctb
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 9/9/2019
 PROJECT: 74927
 OFFICE: 74927
 CADD: 74927
 SHEET: 74927-4

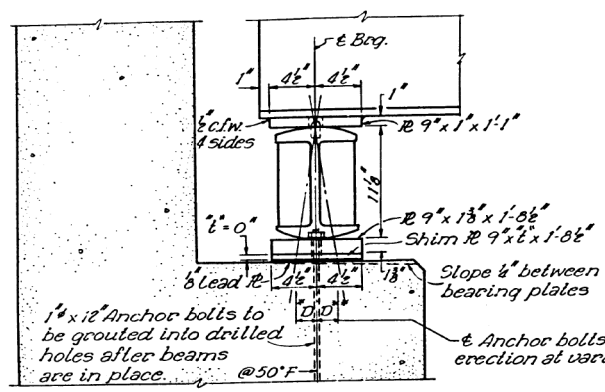
USER NAME = davidsonhk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 9/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

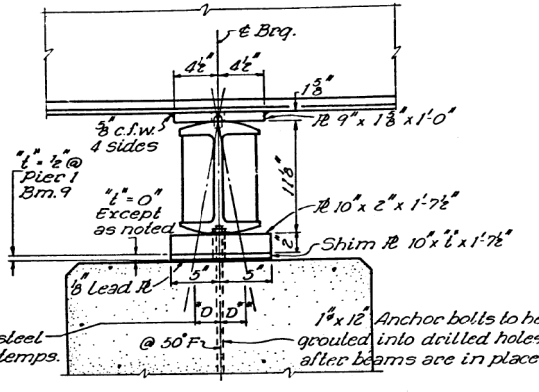
EXISTING PLAN	
STRUCTURE 012-0025	
SCALE: N/A	SHEET 3 OF 6 SHEETS
STA.	TO STA.

* D7 BRIDGE PAINTING 2020-2			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
70		CLARK	10
			SHEET NO. 7
CONTRACT NO. 74927			
ILLINOIS		FED. AID PROJECT	

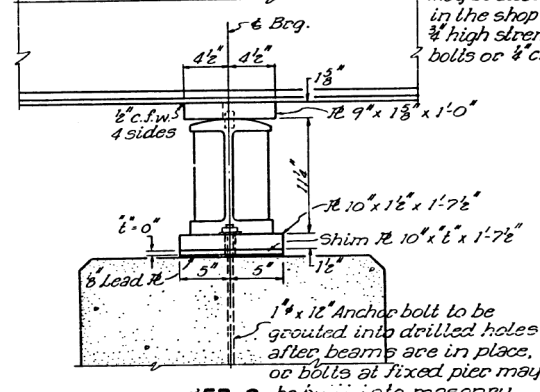
"D" = 1/100' of exp. for every 15' below the normal temp. of 50'
 "D'" = 1/100' of exp. for every 15' above the normal temp. of 50'



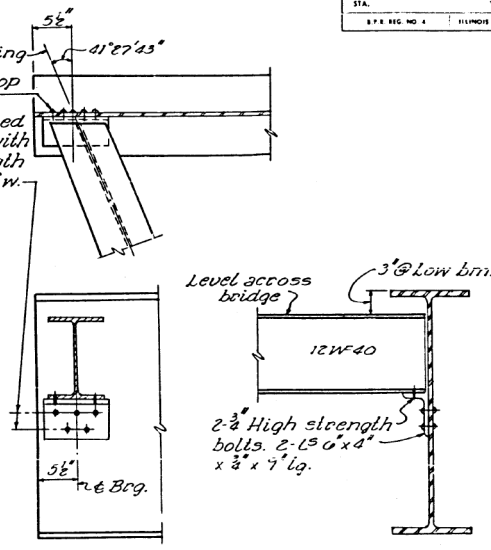
SEC. AT ABUTMENT
Bearing 'A'



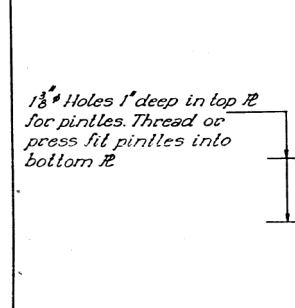
PIERS 1 & 3
Bearing 'B'



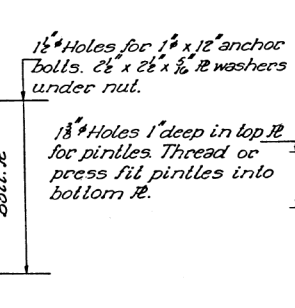
PIER 2
Bearing 'C'



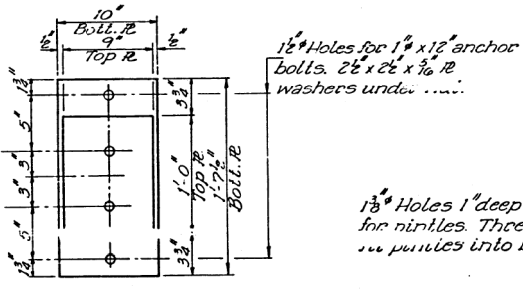
DIAPHRAGM D
16 req'd.



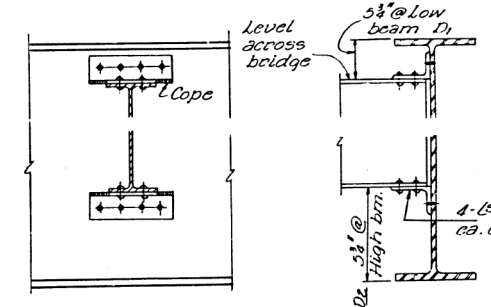
PLAN



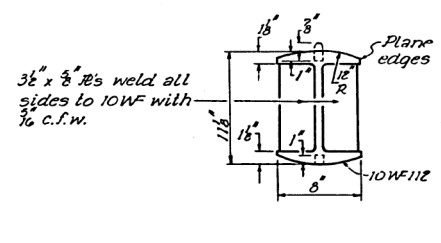
PLAN



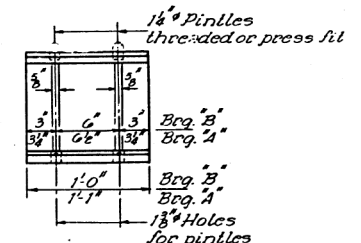
PLAN



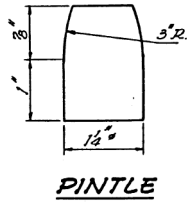
DIAPHRAGM D₁ & D₂
D₁ 48 req'd.
D₂ 56 req'd.



ROCKER



BOLSTER



PINTLE

STRUCTURAL STEEL DETAILS
F.A.I. ROUTE 70 SECTION 12-54 HB-2
CLARK COUNTY
STATION 463+22.61

FOR INFORMATION ONLY

USER NAME = davidsonhk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 9/9/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

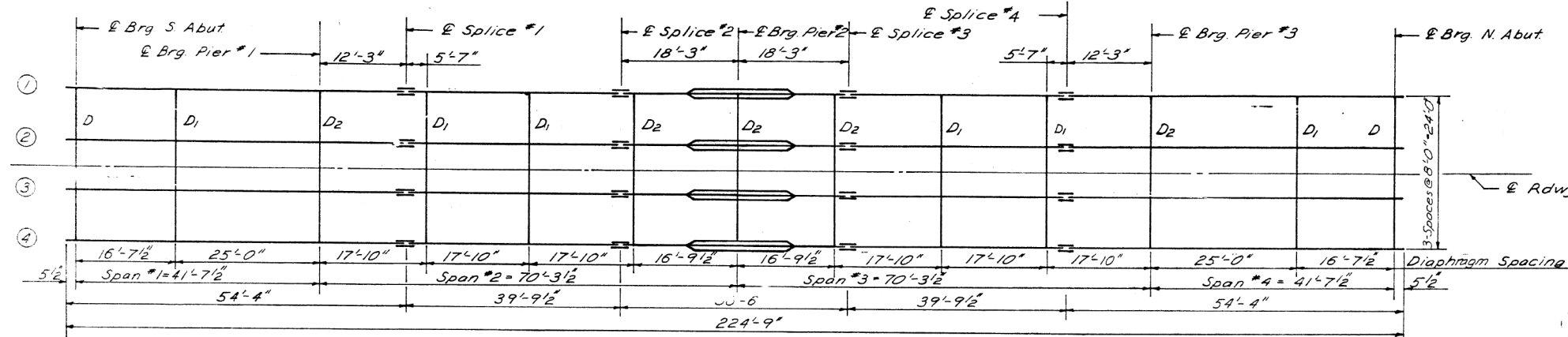
EXISTING PLAN		
STRUCTURE 012-0025		
SCALE: N/A	SHEET 3A OF 7 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	CLARK	10	7A
CONTRACT NO. 74927				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE: h:\a\c\p\pub\baronm.dwg
 PROJECT: 74927
 OFFICE: D:\projects\74927\74927\cadd\baronm.dwg
 DATE: 9/9/2019

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-70	52HB-2	CLARK	29	13
SHEET NO. 4				
9 SHEETS				

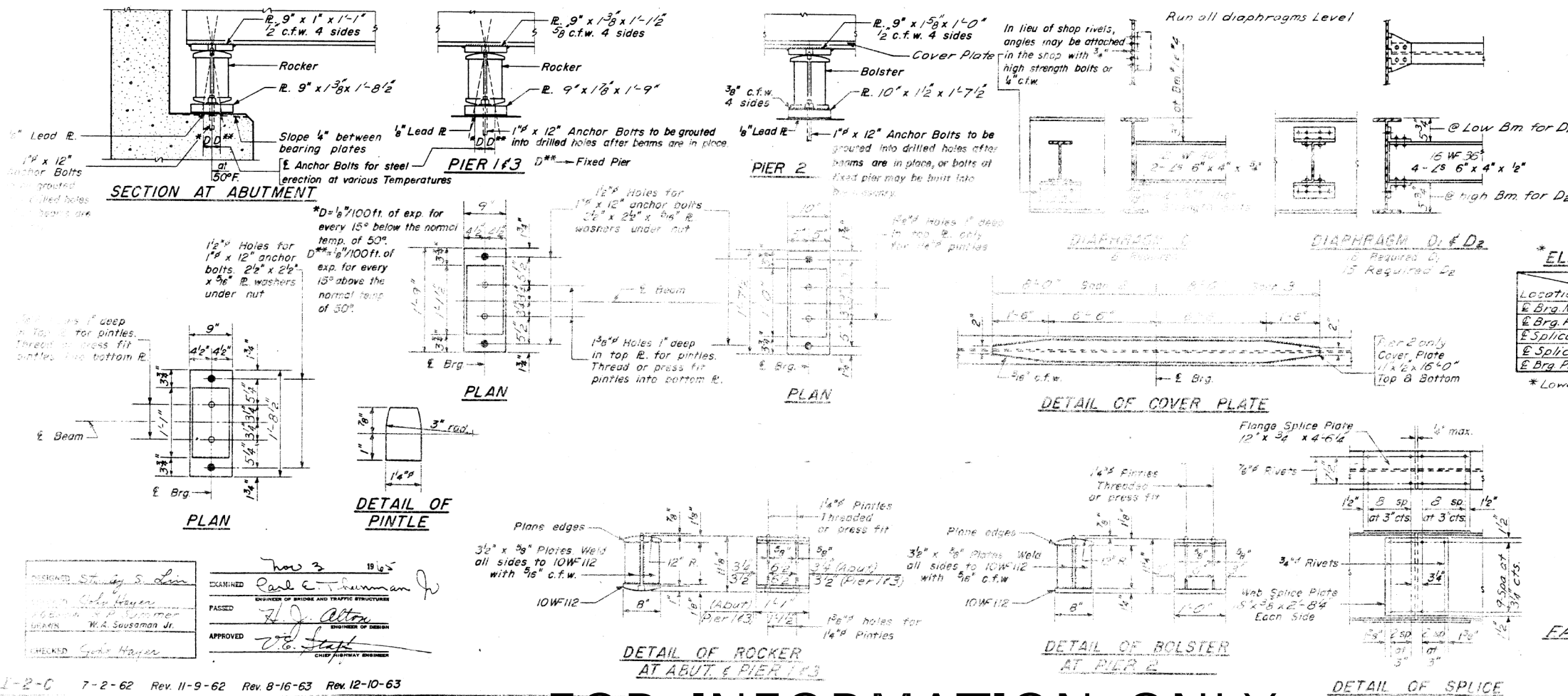


STEEL FRAMING PLAN
(All Beams are 36 W¹³⁵)

**TABLE OF MOMENTS & REACTIONS
INTERIOR BEAMS**

	MOMENTS				REACTIONS		
	Aspl 1/4	Pier 1/3	5sp 2/3	Pier 2	Nd Abut Pier 1/3	Pier 2	
D.L.	83.8	330.9	213.8	543.4	13.7	63.4	79.6
L.L.	214.6	250.9	312.7	333.6	27.8	38.6	41.1
Imp.	55.8	65.2	81.3	86.7	8.3	10.8	10.7
Total	354.2	647.0	607.8	963.7	49.8	112.8	131.4

Moments are in Ft.-Kips
Reactions are in Kips



***ELEVATION TOP OF WF**

Beam Location	Bm. 1/4	Bm. 2/3
@ Brg. N.E. Abut	638.92	639.07
@ Brg. Pier 1/3	639.24	639.39
@ Splice 1/4	639.33	639.48
@ Splice 2/3	639.48	639.63
@ Brg. Pier 2	639.48	639.63

* Lower all elevations 0.04 #

STRUCTURAL STEEL
F.A.I. RT. 70 SEC. 12-52HB-2
CLARK COUNTY
STA. 1603+60.82

DESIGNED: *Stanley S. Lee*
DRAWN: *Paul C. Schuman Jr.*
CHECKED: *Gabe Mayer*
APPROVED: *V.G. Staff*

I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

FOR INFORMATION ONLY

MODEL: Default FILE: h:\p\pub\baroncom.d\illinois.gov\PROJECTS\DOT\Documents\DOT - Office\Drawings\7-Project\74927\CADD\DATA\CADD\sheet\074927-shd.dwg

USER NAME = davidsonhk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 9/9/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A	SHEET 6 OF 6 SHEETS	STA. TO STA.
EXISTING PLAN STRUCTURE 012-041		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CLARK	10	10
CONTRACT NO. 74927				
ILLINOIS FED. AID PROJECT				