

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAI ROUTE 64 (I-64)
SECTION 82-9HB-BP
PROJECT NHPP-A83Q(487)
BRIDGE PAINTING
ST. CLAIR COUNTY

C-98-039-25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	1
		ILLINOIS	CONTRACT NO. 76T06	

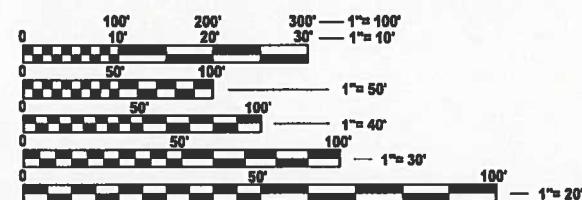
D-98-006-25



LOCATION OF SECTION INDICATED THUS: - - - - -

FUNCTIONAL CLASSIFICATION
INTERSTATE

2023 ADT = 34900 (ACTUAL)
2024 ADT = 35200 (ESTIMATED)
2044 ADT = 43000 (ESTIMATED)
S.U. = 3.3% M.U. = 24.4%

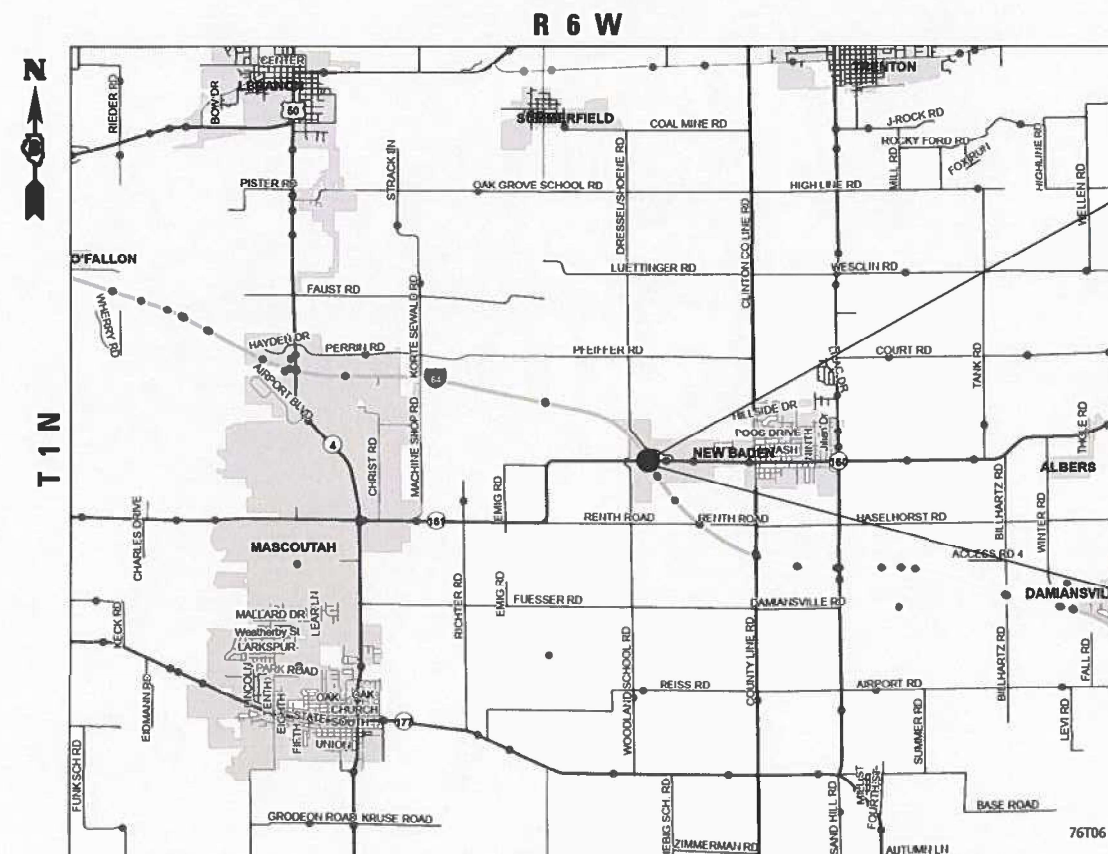


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: CHERLY KEPLAR
PROJECT MANAGER: BRANDON HUMPHREYS

CONTRACT NO. 76T06



LOCATION #1
SN 082-0192
FAI 64 EB
BRIDGE OVER IL 161
LAT: 38.535392
LONG: -89.729135

LOCATION #2
SN 082-0193
FAI 64 WB
BRIDGE OVER IL 161
LAT: 38.535390
LONG: -89.728970

GROSS LENGTH = 52.8 FT. = 0.01 MILE
NET LENGTH = 52.8 FT. = 0.01 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 2 2024 410

[Signature]
REGIONAL ENGINEER

January 31 2025

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

January 31 2025

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1COVER SHEET
- 2INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- 3SUMMARY OF QUANTITIES
- 4-5TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
- 6-26STRUCTURE DETAILS - LOCATION #1 (082-0192) & #2 (082-0193)

HIGHWAY STANDARDS

- 000001-08STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006DECIMAL OF AN INCH AND OF A FOOT
- 701001-02OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701316-14LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >=45 MPH
- 701901-10TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

FRONTIER COMMUNICATIONS
VILLAGE OF NEW BADEN
WINDSTREAM KDL, INC..
2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.
3. FOUR CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED TWO WEEKS PRIOR TO ANY LANE CLOSURE AND SHALL REMAIN UP FOR THE DURATION OF THE PROJECT. LOCATIONS SHALL BE AT THE DIRECTION OF THE RESIDENT ENGINEER.
4. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
5. THE SSPC-QP1 AND SSPC-QP2 CERTIFICATIONS WILL BE REQUIRED FOR THIS PROJECT.
6. FOR LOCATIONS 1 AND 2, A MINIMUM OF TWO AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISION FOR “CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES.”
7. FOR LOCATIONS 1 AND 2, CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR “CLEANING AND PAINTING EXISTING STEEL STRUCTURES.” ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC- SP10. ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1.
8. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

COMMITMENTS

NONE

REV - MS

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		DRAWN -	REVISED -					64	82-9HB-BP	ST. CLAIR	26	2
		CHECKED -	REVISED -					CONTRACT NO. 76T06				
	PLOT DATE = 11/26/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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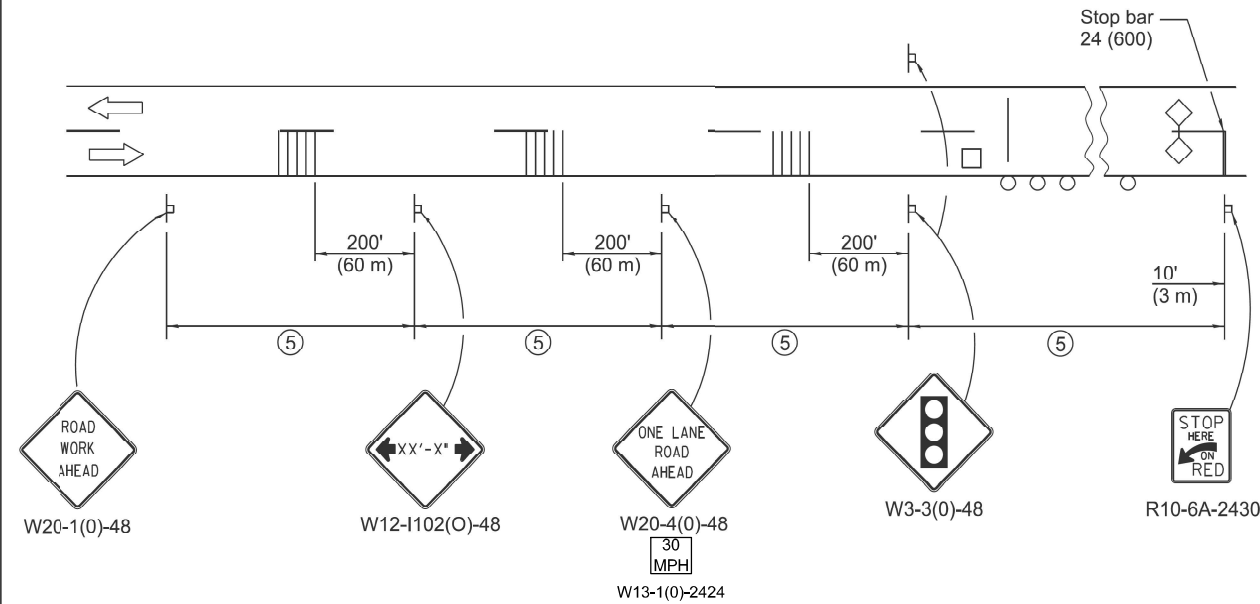
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	
				BRIDGE	BRIDGE
				0047	0047
				S.N. 082-0192	S.N. 082-0193
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	1	1
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	4	2	2
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	224	112	112
X7010200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 (SPECIAL)	EACH	1	0.5	0.5
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	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

	USER NAME = edison.zohfanyi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					64	82-9HB-BP	ST. CLAIR	26	3
		CHECKED -	REVISED -					CONTRACT NO. 76T06				
	PLOT DATE = 12/6/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

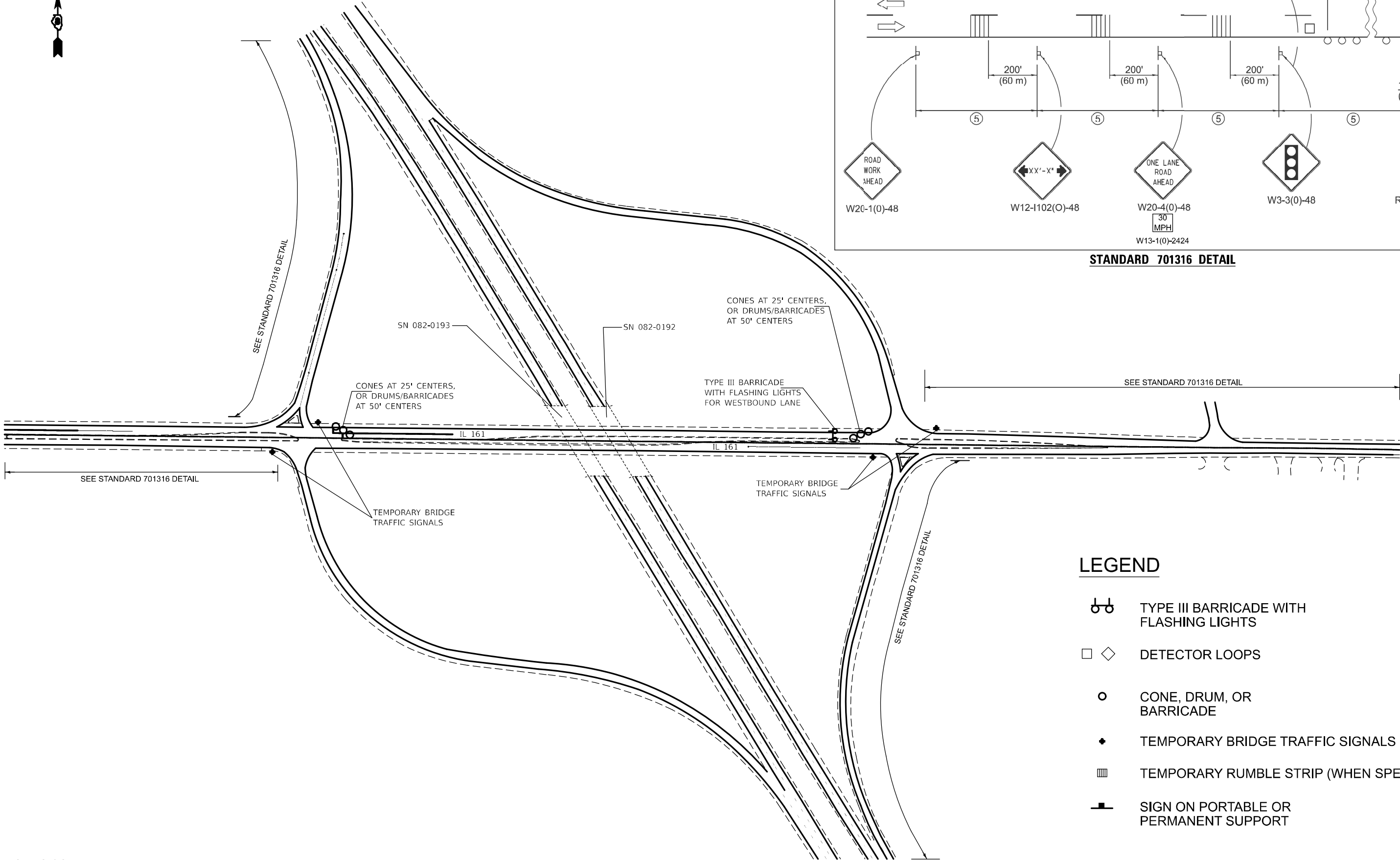
LOCATIONS #1 & #2



SEE HIGHWAY STANDARD 701321 DETAIL FOR PLACEMENT OF DETECTOR LOOPS



STANDARD 701316 DETAIL



LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHTS
- DETECTOR LOOPS
- CONE, DRUM, OR BARRICADE
- TEMPORARY BRIDGE TRAFFIC SIGNALS
- TEMPORARY RUMBLE STRIP (WHEN SPECIFIED)
- SIGN ON PORTABLE OR PERMANENT SUPPORT

NOT TO SCALE

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/6/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION 701316 (SPECIAL)
WESTBOUND LANE CLOSURE

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	4
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

LOCATIONS #1 & #2



SEE STANDARD 701316 DETAIL

SN 082-0193

SN 082-0192

TEMPORARY BRIDGE
TRAFFIC SIGNALS

CONES AT 25' CENTERS,
OR DRUMS/BARRICADES
AT 50' CENTERS

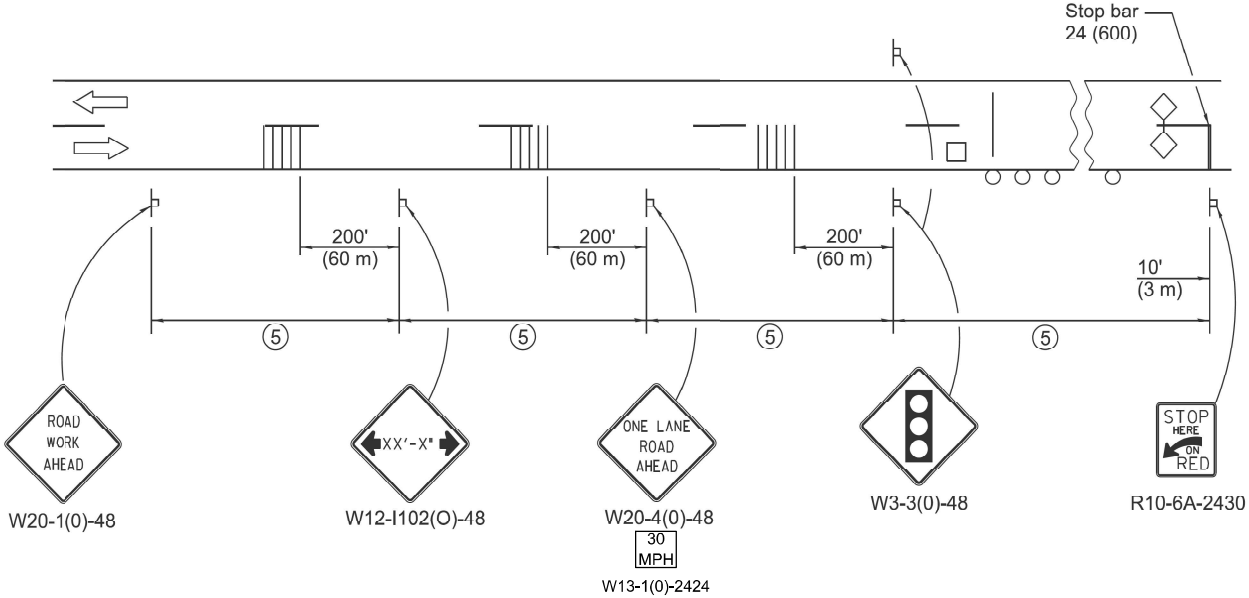
TYPE III BARRICADE
WITH FLASHING LIGHTS
FOR EASTBOUND LANE

CONES AT 25' CENTERS,
OR DRUMS/BARRICADES
AT 50' CENTERS

IL 161

IL 161

SEE HIGHWAY STANDARD 701321 DETAIL FOR PLACEMENT OF DETECTOR LOOPS



STANDARD 701316 DETAIL

SEE STANDARD 701316 DETAIL

SEE STANDARD 701316 DETAIL

TEMPORARY BRIDGE
TRAFFIC SIGNALS

SEE STANDARD 701316 DETAIL

LEGEND



TYPE III BARRICADE WITH
FLASHING LIGHTS



DETECTOR LOOPS



CONE, DRUM, OR
BARRICADE



TEMPORARY BRIDGE TRAFFIC SIGNALS



TEMPORARY RUMBLE STRIP (WHEN SPECIFIED)



SIGN ON PORTABLE OR
PERMANENT SUPPORT

NOT TO SCALE

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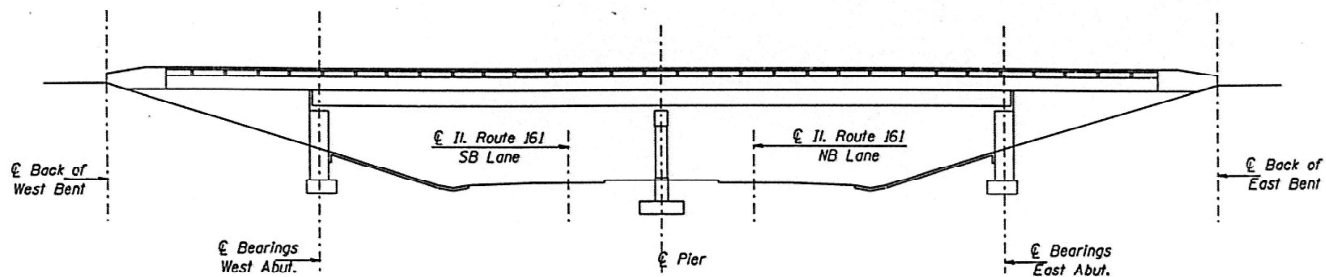
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		DRAWN	-	REVISED	-
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PLOT DATE	= 12/6/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

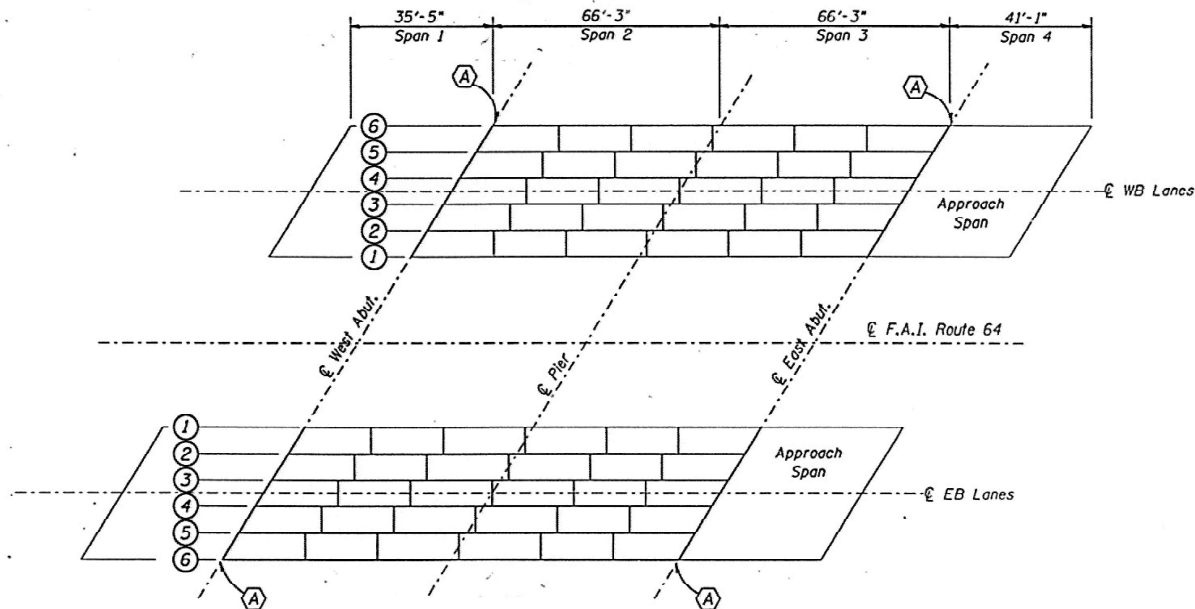
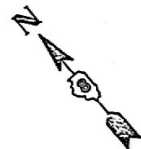
TRAFFIC CONTROL AND PROTECTION 701316 (SPECIAL)
EASTBOUND LANE CLOSURE

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	5
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

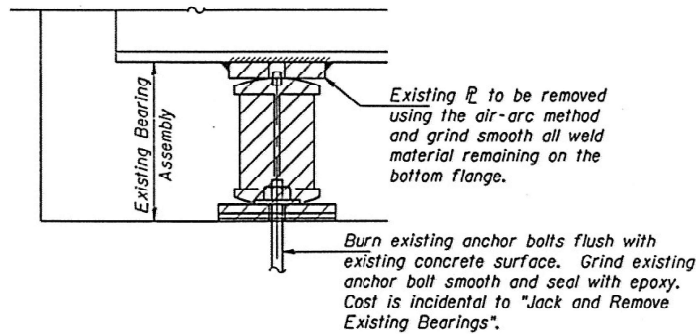


ELEVATION



FRAMING PLAN

Notes: (A) Remove existing bearings and replace with Type I Elastomeric Bearings Beams 1 thru 6.



EXISTING BEARING REMOVAL DETAIL

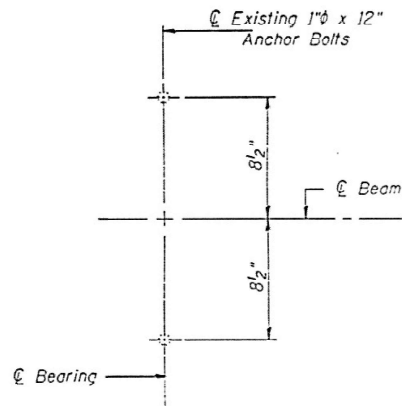
GENERAL NOTES

All new structural steel shall conform to AASHTO Classification M-270 Gr. 36.
All new fasteners shall be high strength bolts. Holes shall be subpunched or subdrilled $\frac{1}{16}$ " and reamed in the field to $\frac{1}{16}$ " for $\frac{3}{4}$ " high strength bolts (except as noted on the plans) after new structural steel sections are properly fitted into position.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision "Cleaning and Painting Metal Structures".

Existing structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures".



EXISTING ANCHOR BOLT LOCATION PLAN

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing & Erecting Structural Steel	Pound	4650
Elastomeric Bearing Assembly Type I	Each	24
Jack and Remove Existing Bearings	Each	24

ILLINOIS DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

F.A.I. ROUTE 64
SECTION 82-9HB-1
ST. CLAIR COUNTY
S.N. 082-0192 (E.B.)
S.N. 082-0193 (W.B.)

FOR INFORMATION ONLY

USER NAME = edison.zohfanyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

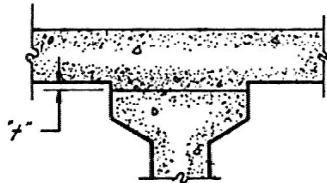
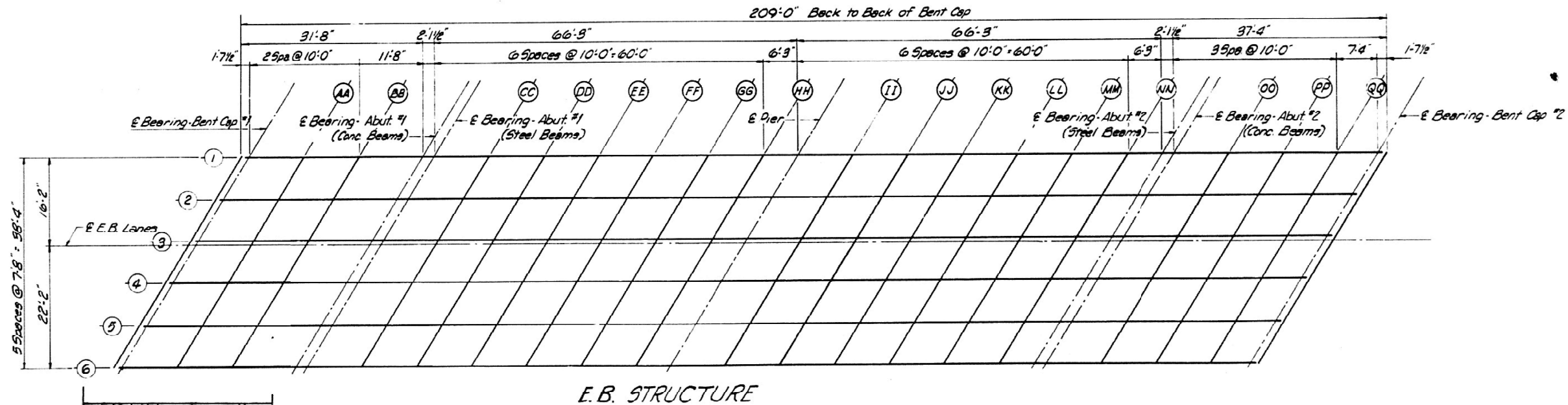
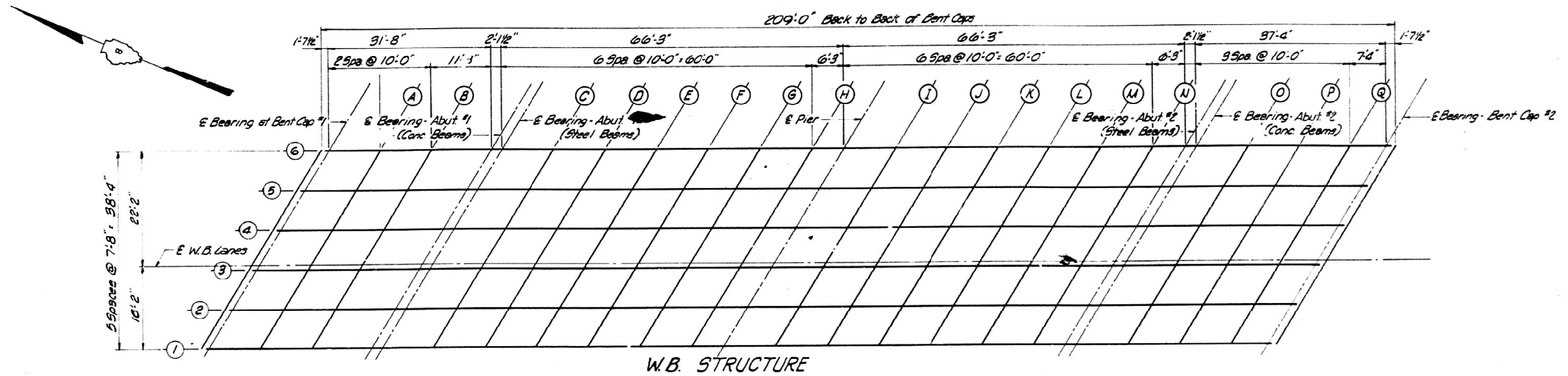
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 1 OF 21 SHEETS STA. TO STA.

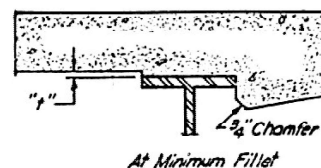
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64	82-9HB-8P	ST. CLAIR	26	6
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA1-64	829HB-1	ST. CLAIR	42	38
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

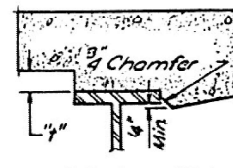


To determine "f": After all precast pre-stressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted algebraically from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown right, minus slab thickness, equals the fillet height "f". A positive value of "f" equals the fillet height above beam. A negative value of "f", not to exceed 1/2", equals the embedment of the beam above the theoretical bottom of slab elevations.

FILLET HEIGHTS



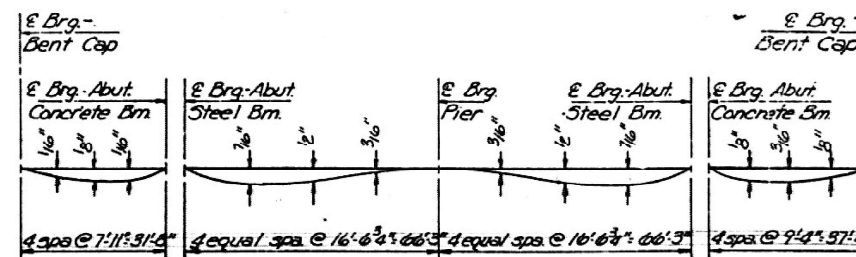
At Minimum Fillet



At Maximum Fillet

To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown right, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

NOTE: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet number 4.

FOR INFORMATION ONLY

REVISIONS					DRAWN BY DATE	
NO.	DATE	INITIALS	DESCRIPTION	BY	DATE	INITIALS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

DECK ELEVATIONS

STATE OF ILLINOIS
DEPT. OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

FA1-64 OVER FA1-17
FA1-64 SEC 82 748.1 PROJECT
STA 1365+47.66 (FA1-64) ST. CLAIR CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

BOOK NUMBER
PROJECT NO.
SHEET NO.

1448-3

38

USER NAME = edison.zohfonyl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

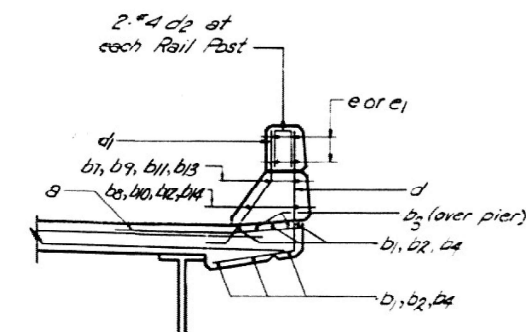
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 2 OF 21 SHEETS STA. TO STA.

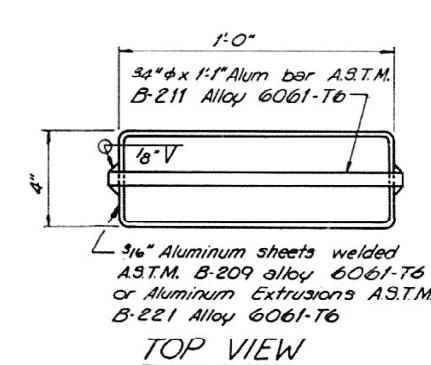
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	7
			CONTRACT NO. 76T06	

ILLINOIS FED. AID PROJECT



Note
All reinforcement bars to have
1/2" min. cover unless otherwise noted.

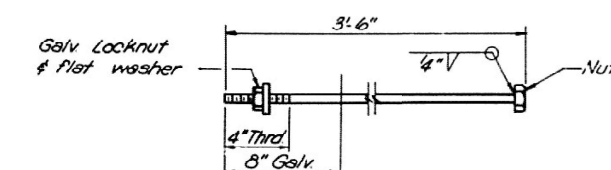
DETAIL OF CURB REINFORCEMENT



END VIEW

FLOOR DRAIN DETAIL

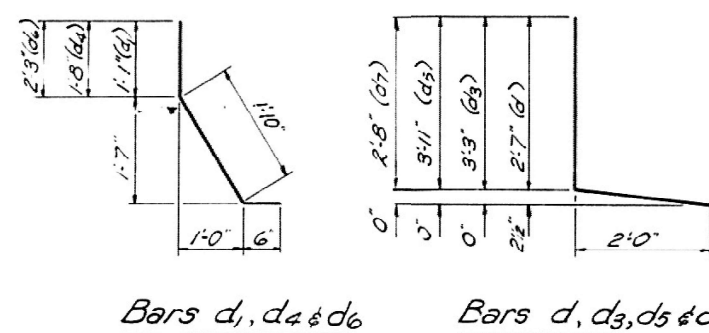
Scale : 3" = 1' 0"



DETAIL OF 1" ϕ ANCHOR BOLT

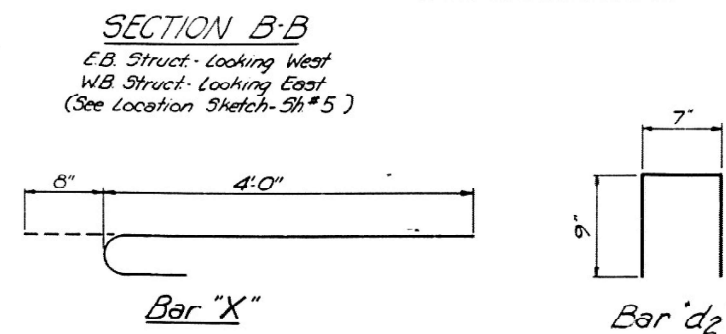
Cost of bolts incidental to cost of Bridge Struct.

FOR INFORMATION ONLY

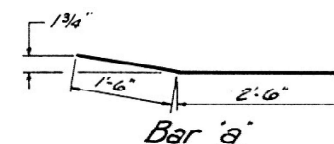


Bars d_1, d_4 & d_6

Bars d, d_3, d_5 & d_7



Bar "X"

Bar 'd₂

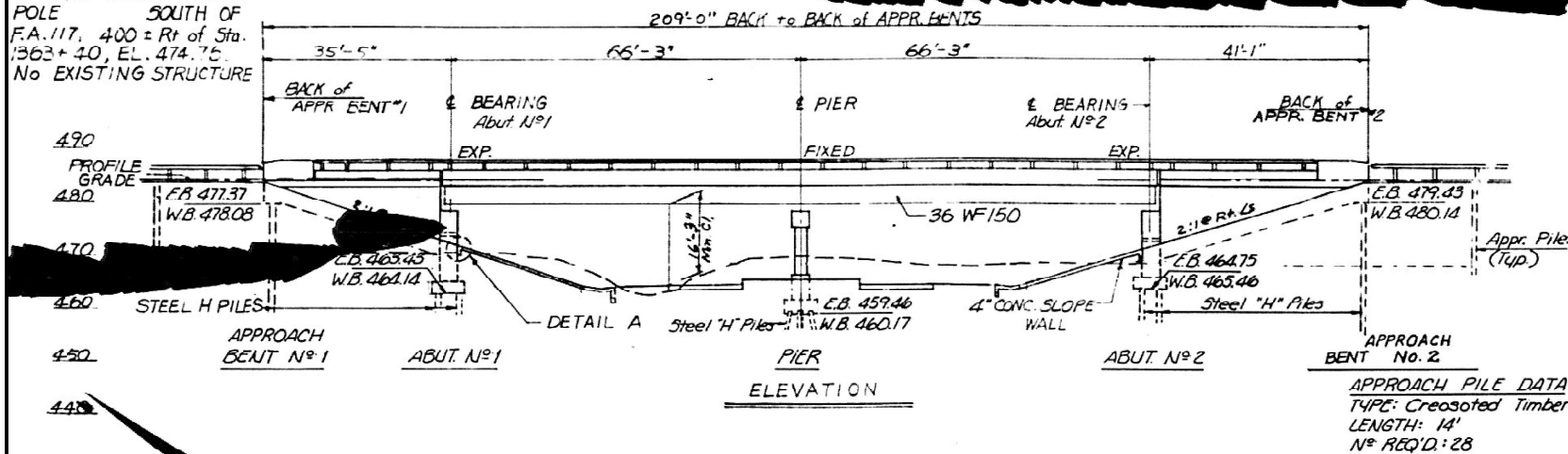
Bar 'a

			<i>CONCRETE DECK</i>			
REVISIONS			STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS		DRAWN BY SA MLT-9 CHECKED BY DJ FNL 11-0- BOOK NUMBER PROJECT NO. 1448-3	
No.	DATE	INITIALS	FAI 64 OVER FAI 17 FAI 64 SEC. 32-94B-1 PROJECT STA. 1365 + 47.46 (FAI 64) ST. CLAIR CO.			
1						
2						
3						
4						
5						
6						
7			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		SHEET NO. 41	
8						
9						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)					F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					64	82-9HB-BP	ST. CLAIR	26	8
					CONTRACT NO. 76T06				
SCALE:	SHEET 3	OF 21	SHEETS	STA.	TO STA.				

B. M. W.
RAILROAD SPIKE IN TOWER
POLE SOUTH OF
F.A. 117, 400 ± Rt. of Sta.
1363+40, EL. 474.75
No EXISTING STRUCTURE



DESIGN LOADING

Live HS 20-44 & AASHTO 1969 Specifications
Dead load includes 25"/sq.ft. of Roadway for future wearing surface.

DESIGN STRESSES

$f_c = 14,000$ p.s.i. Substructure, Curb & Parapet
 $f_c = 12,000$ p.s.i. Superstructure Slab
 $f_c = 75$ p.s.i. Footings
 $f_s = 20,000$ p.s.i. Reinforcing Steel
 $f_s = 28,000$ p.s.i. Structural Steel (A-96)
 $n = 10$
Live Load Deflection
L/1200 for

PRESTRESSED BEAMS

$f_c = 5,000$ p.s.i.
 $f_{ci} = 4,000$ p.s.i.
 $f_s = 248,000$ p.s.i.
 $f_{si} = 173,600$ p.s.i.

STATION 1365+47.46
BUILT 197 BY
STATE OF ILLINOIS
F.A. RT. 64 SEC. 82-9HB-1
FA. PROJECT 1-64-2 (21)
LOADING HS-20&ALT.

LETTERING FOR
NAME PLATE
(See Std. 2113)

- GENERAL NOTES -

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Field connections shall be bolted using High Strength bolts. Bolts $\frac{3}{4}"$, open holes $\frac{1}{16}"$, unless otherwise noted.

Diaphragm connections may be adapted to shop welding subject to approval by the Engineer.

The Contractor shall drive 3 steel test piles in a permanent location of Abut. #1 C.B. lanes, Abut. Bent #2 C.B. lanes, Pier W.B. lanes as directed by the Engineer before ordering the remainder of piles.

The basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of class "x" concrete except the aggregates shall conform to requirements of hard rail concrete.

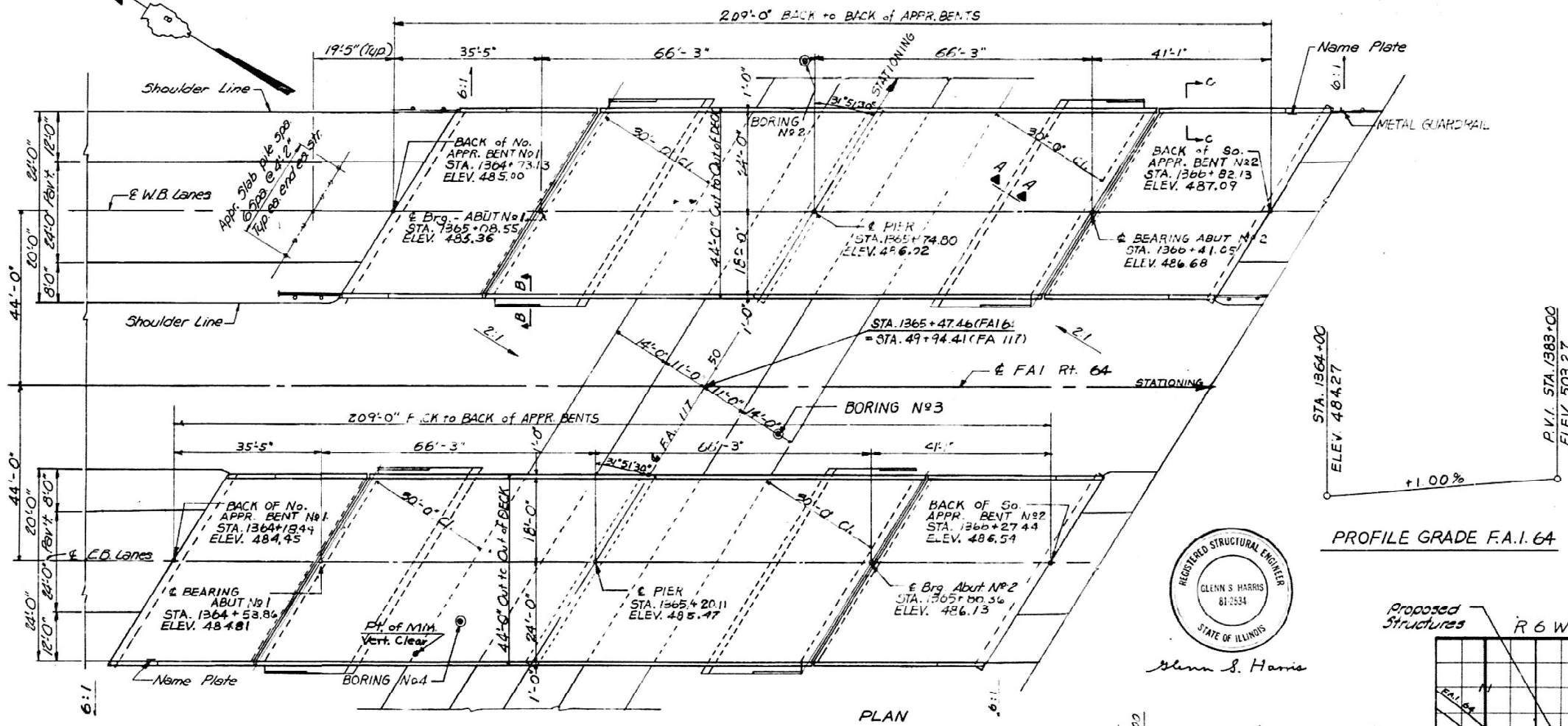
Field welding of construction accessories will not be permitted to the bottom of flange of beams or girders nor on the top flange for a distance equal to one-fourth the span length each way from the Pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

An alternate strand pattern using Extra High Strength Prestressing Strand (210 ksi) is permitted.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

Calculated plan weight of Structural Steel: 304,860 lbs.

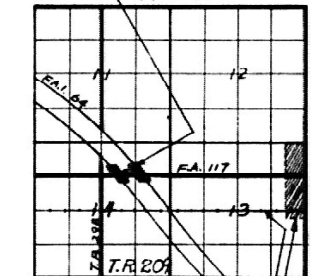
Anchor bolts shall be set before bolting diaphragms over supports.



Glenn S. Harris

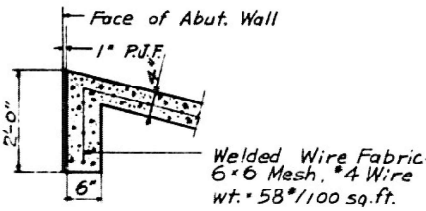
PROFILE GRADE F.A. 1.64

Proposed Structures R 6 W

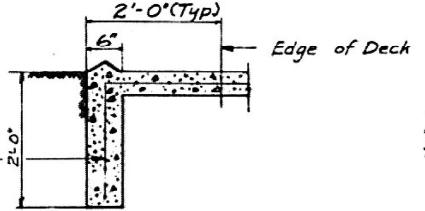


Southern R.R. New Baden

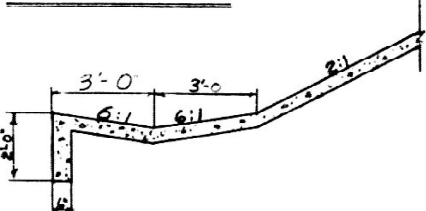
LOCATION PLAN



DETAIL A



SECTION B-B



SECTION A-A



PROFILE GRADE FA. 117

FOR INFORMATION ONLY

USER NAME = edison.zohfonyl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAIL
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 4 OF 21 SHEETS STA. TO STA.

TOTAL BILL OF MATERIAL				
ITEM	UNIT	SUPERSTR	SUBSTR	TOTAL
Structure Excu.	CU. YDS.		780	780
PRECAST PRESTRESSED CONC. FBM	UNI. FT.	565		565
CLASS "X" CONCRETE	CU. YDS.	616.2	705.2	1321.4
STRUCTURAL STEEL	L.S.	L.S.		L.S.
STUD SHEAR CONNECTORS	EACH	4128		4128
ALUMINUM RAILING	LIN. FT.	738		738
REINFORCEMENT BARS	LBS.	158,580	60,800	219,380
CREOSOTED PILES	UNI. FT.		392	392
STEEL PILES (GBP36)	UNI. FT.		3526	3526
BRIDGE SEAT SEALER	L.S.		L.S.	L.S.
PROTECTIVE COAT	SQ. YDS.	2190		2190
NAME PLATES	EACH	2		2
TEST PILES (STEEL)	EACH		3	3
SLOPE WALL 4"	SQ. YDS.		730	730

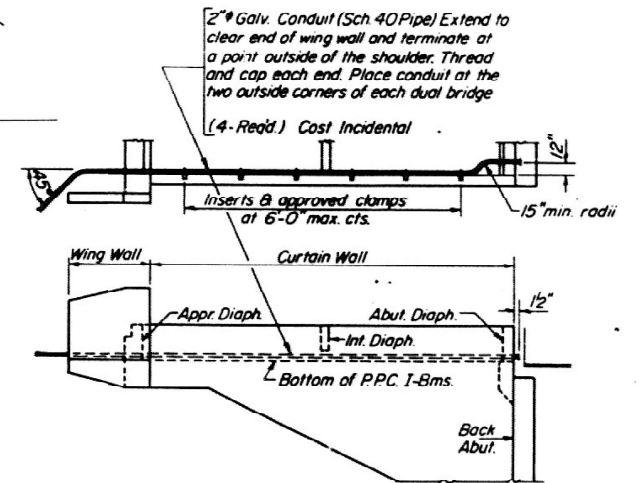
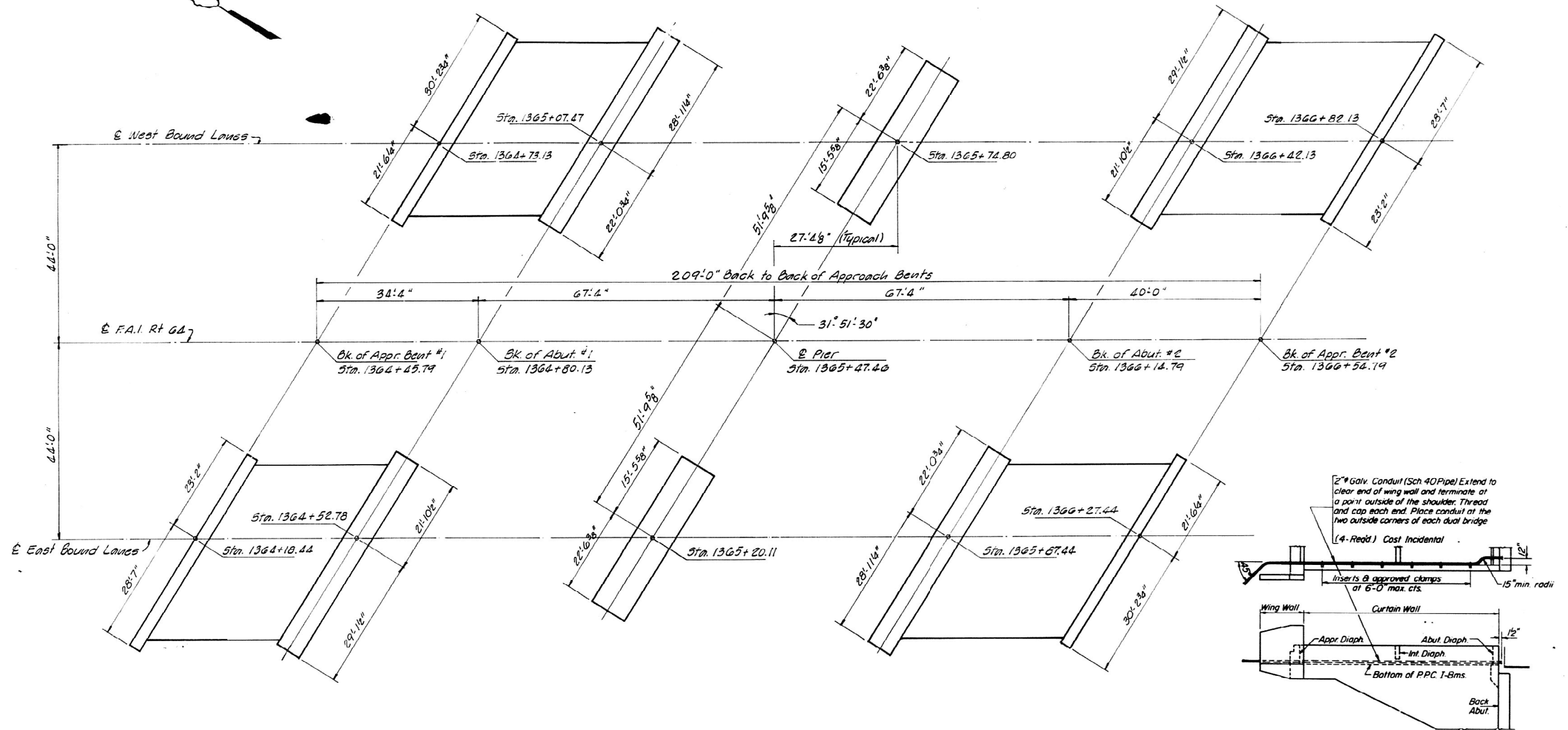
GENERAL PLAN AND ELEVATION				
REVISIONS	DATE	BY	REMARKS	
1				
2				
3				
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10				

STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	PROJECT NO. 1448-3
F.A. 1.64 OVER F.A. 117 F.A. 1.64 SEC. 82-9 HB-1 PROJECT 1-64-2 (21) STA. 1365+47.46 (F.A. 1.64) ST. CLAIR Co.	SHEET NO. 36
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	9
CONTRACT NO. 76106				
ILLINOIS FED. AID PROJECT				

Sheet No. 2
of 21 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-64	82-9HB-1	ST. CLAIR	92	37
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



ELECTRICAL CONDUIT LOCATION

FOR INFORMATION ONLY

FOOTING PLAN

REVISIONS			DESIGNED BY	DATE
1	DATE	INITIALS	RES	11/69
2				
3				
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5				
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9				
10				

STATE OF ILLINOIS
DEPT. OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
FAI-64 OVER FA-117
FAI-64 SEC. 82-9HB-1 PROJECT
STA. 1365+47.46 (FAI-64) ST. CLAIR CO.
HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

PROJECT NO. 1448-3
SHEET NO. 37

USER NAME = edison.zohforyl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

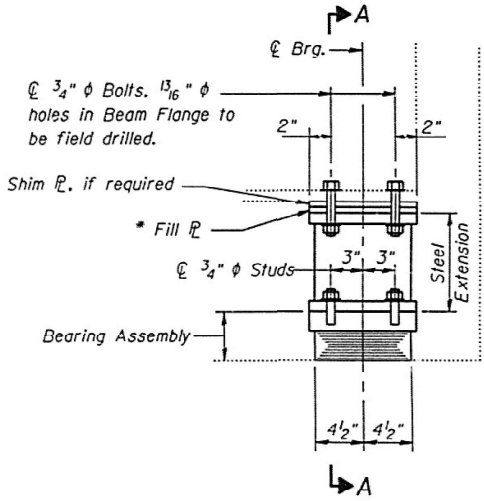
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

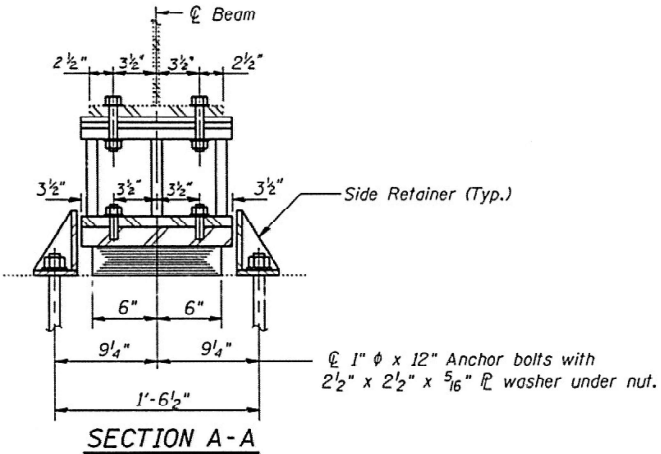
SCALE: SHEET 5 OF 21 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	10
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



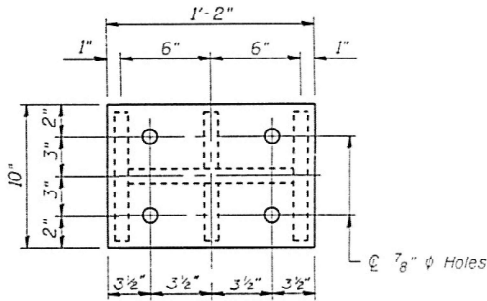
ELEVATION AT ABUTMENTS



SECTION A-A

BEAM REACTIONS

R $\varnothing$	(K)	31.5
R $\frac{1}{2}$	(K)	50.5
Imp.	(K)	13.2
R (Total)	(K)	95.2



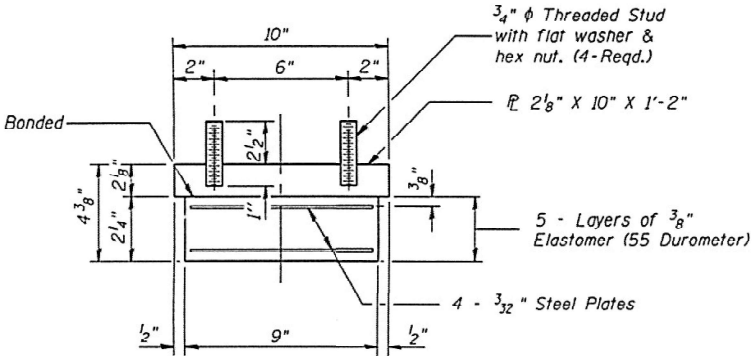
PLAN TOP & BOTTOM PLATES

* Fill $\varnothing$ "1" X 10" X 1'-2"
See Table on This Sheet for "1"

TYPE I ELASTOMERIC EXP. BRG.

FILL PLATE THICKNESS "1"

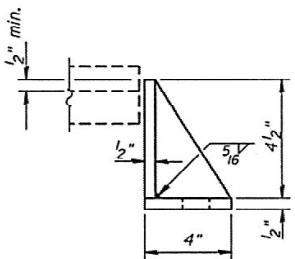
BEAM NUMBER	1	2	3	4	5	6
S.N. 082-0192 (EB)	0	0	0	0	0	0
S.N. 082-0193 (WB)	0	0	9/16"	0	0	0



BEARING ASSEMBLY

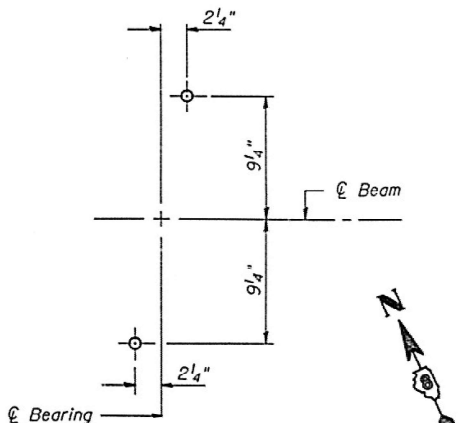
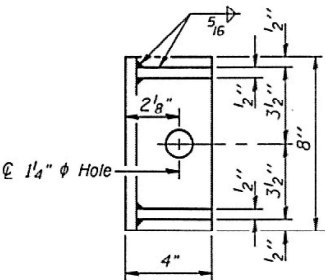
Note: Shim plates shall not be placed under Bearing Assembly.

Notes: Diaphragm removal and replacement may be required to facilitate drilling holes. Cost is incidental to "Furnishing and Erecting Structural Steel".
New steel extensions, connection bolts, anchor bolts, fill plates, and side retainers are included in "Furnishing and Erecting Structural Steel".
See Sheet 50 for Anchor Bolt Installation.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



ANCHOR BOLT LOCATIONS

FOR INFORMATION ONLY

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24

ILLINOIS DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

F.A.I. ROUTE 64
SECTION 82-9HB1-1
ST. CLAIR COUNTY
S.N. 082-0192 (E.B.)
S.N. 082-0193 (W.B.)

MODEL: Existing Structure-6 (Sheet)
FILE NAME: c:\p\work\p\work\illinois.gov\edison.zohfanyi\1051078\082-9HB1-1\05-shb-9-dgn

USER NAME = edison.zohfanyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

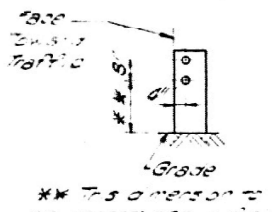
STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 6 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	11
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

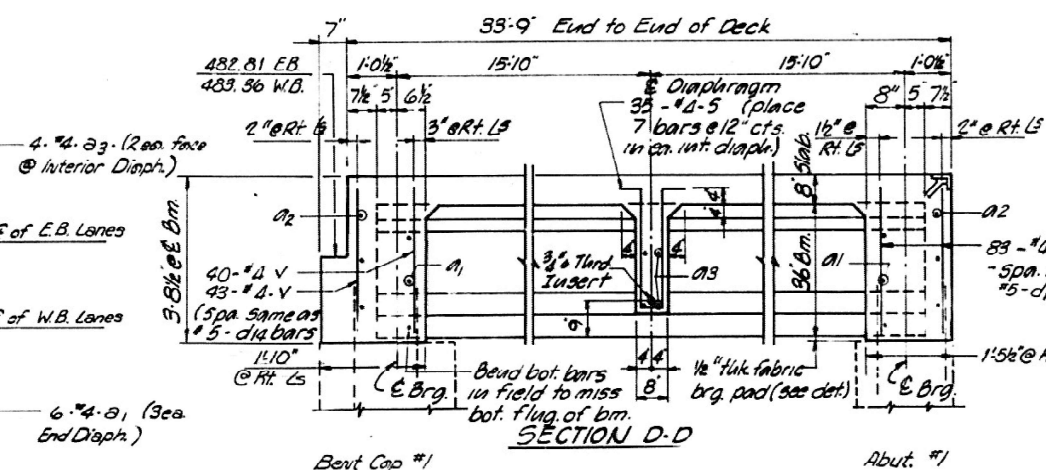
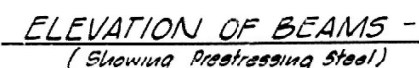
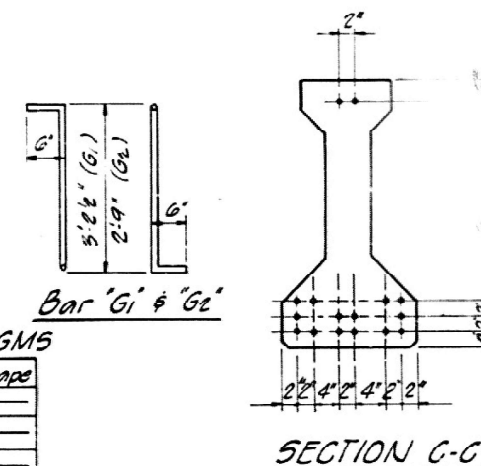
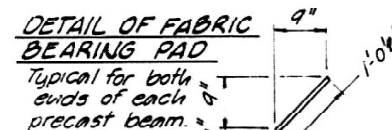
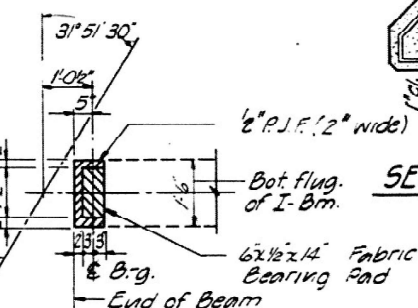
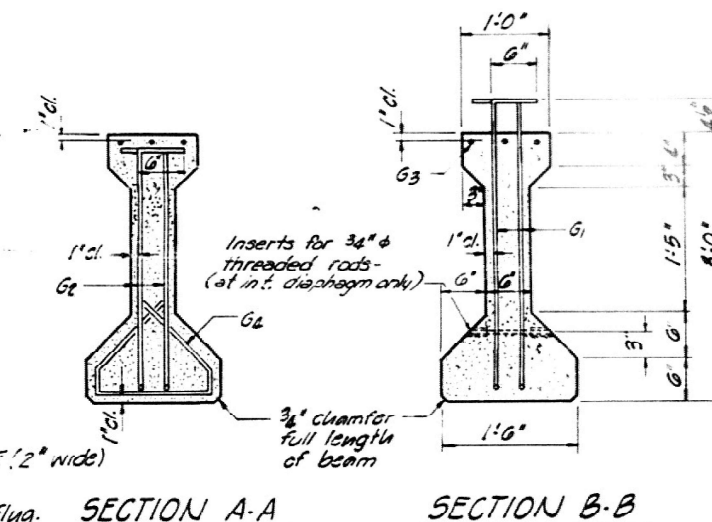
#NOTE:
Cut 27 bars to fit skew
and use remainder in
opposite end.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-64	82-9HB-1	ST. CLAIR	92	40
		ILLINOIS	FEDERAL	



		DECK PLAN (SPANS 1,2,3,4)		DRAWN BY: J. M. L. J.	
REVISONS		STATE OF ILLINOIS		CMT: J. M. L. J.	
		DEPT. OF PUBLIC WORKS AND BUILDINGS		ENL: J. M. L. J.	
		DIVISION OF HIGHWAYS		SCALE: 1" = 10'	
1		FA 1.64 OVER FA 1.17		PROJECTED BY: J. M. L. J.	
2		FA 1.64 - 50' 32" - 945-1		CHECKED BY: J. M. L. J.	
3		STA 1965 + 97.86 (FA 1.64) ST. CLAIR CO.		APPROVED BY: J. M. L. J.	
4				DATE: 10/20/80	
5				SHEET NO. 40	
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	12
		CONTRACT NO. 76T06		
		ILLINOIS FED. AID PROJECT		



Bar	No.	Size	Length	Shape
A1	60	#4	8'-5"	—
A2	24	#4	22'-6"	—
A3	40	#4	6'-2"	—
5	70	#4	7'-0"	—
V	332	#4	3'-3"	—
Reinforcement Bars			Lbs.	1910

Bar	No.	Sigs	Length	Slings
G1	30	#2	1' 2 1/2"	7L
G2	12	#4	3' 9"	7L
G3	3	#6	32' 3"	—
G4	48	#3	2' 7"	L

BILL OF MATERIAL

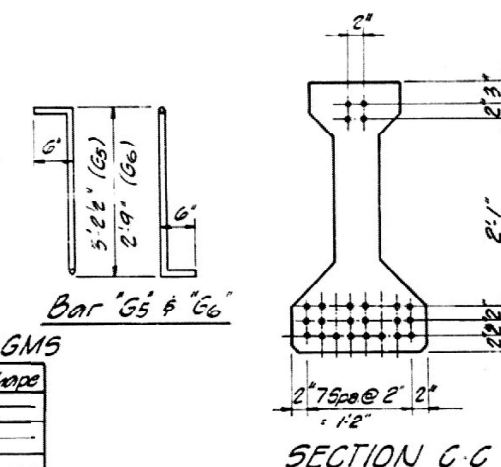
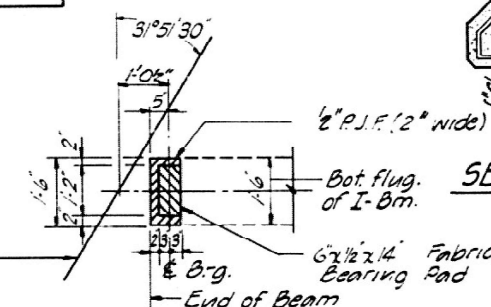
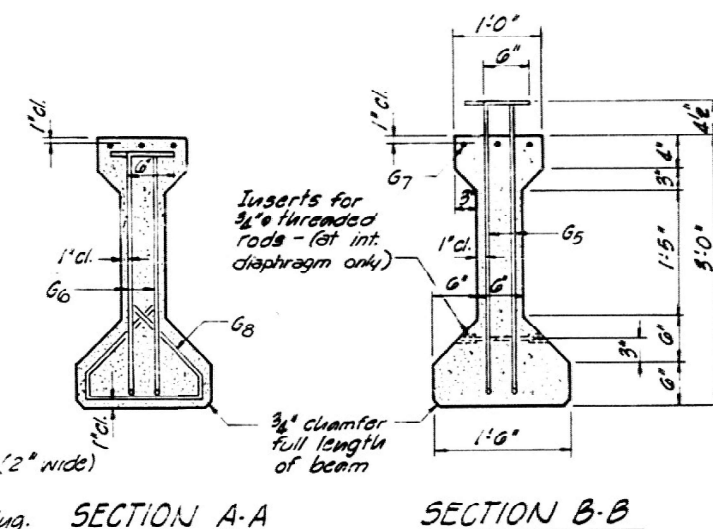
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 30"	Lin. Ft.	260

PRECAST PRESTRESSED CONC. I-BEAM

REVISIONS NO. DATE INITIALS			STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS		DRAWN BY DATE M.L.T. 9-69	
					CHECKED BY DATE T.M.L. 11-69	
			F.A.I. 62 OVER F.A.I. 117 F.A.I. 64 SEC. 82.948-1 PROJECT STA. 1365 + 47.46 (F.A.I. 64) ST. CLAIR CO.		BOOK NUMBER	
			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		PROJECT NO. 1448-3	
					SHEET NO. 42	

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per linear foot of "Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36 in." See Standard Specifications for additional information regarding materials, Prestressing equipment, construction & handling methods and other requirements for Precast Prestressed Concrete I-Beams.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	13
		CONTRACT NO. 76T06		
☐ ILLINOIS		☐ FED. AID PROJECT		

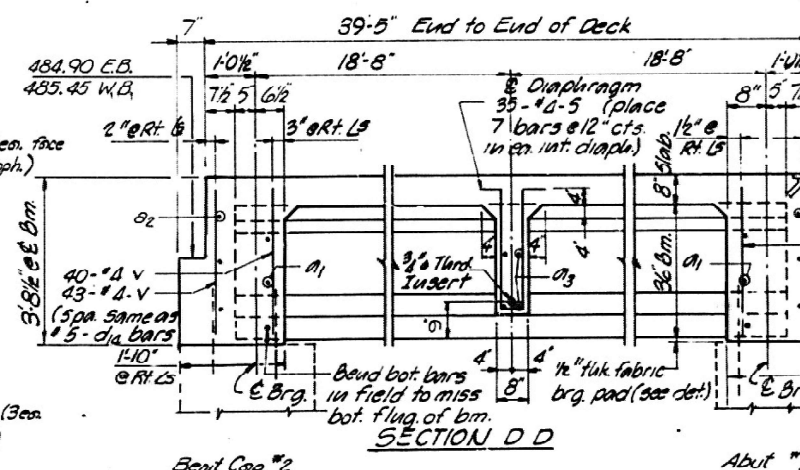
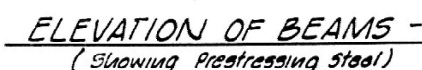


Bar	No.	Size	Length	Shape
a ₁	60	#4	8'-5"	—
a ₂	24	#4	22'-6"	—
a ₃	40	#4	6'-2"	—
s	70	#4	7'-0"	—
v	332	#4	3'-3"	—
Reinforcement Bars			Lbs.	1910

[illegible]

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	308



Note: Class "X" conc. quantities in diaphragms are included in conc. quantities for Deck Slab

-NOTES-

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the Contract Unit price per linear foot of "Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36 in." See Standard Specifications for additional information regarding materials, Prestressing equipment, construction & handling methods and other requirements for Precast Prestressed Concrete I-Beams.

Prestressing Steel shall have a nominal diameter of 1/2".

Inserts for 3/4" threaded rods are to be single coil, flared loop type.

PRECAST	
REVISIONS	

Steel for Lifting Hooks shall be non-deformed bars of structural or intermediate grade billet steel.

FOR INFORMATION ONLY

PRECAST PRESTRESSED CONC. I-BEAM

REVISIONS 1. DATE INITIALS 2. 3. 4. 5. 6. 7. 8.			STATE OF ILLINOIS DEPT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS FAI 6A OVER FAI 117 FAI-6A SEC 52 94B1 PROJECT S.A 1365+07.46 (FAI-6A) ST. CLAIR CO. HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILL.		DRAWN BY DATE MLT 3-69 CHECKED BY DATE EML 11-69 BOOK NUMBER PROJECT NO 1448-3 SHEET NO 43	
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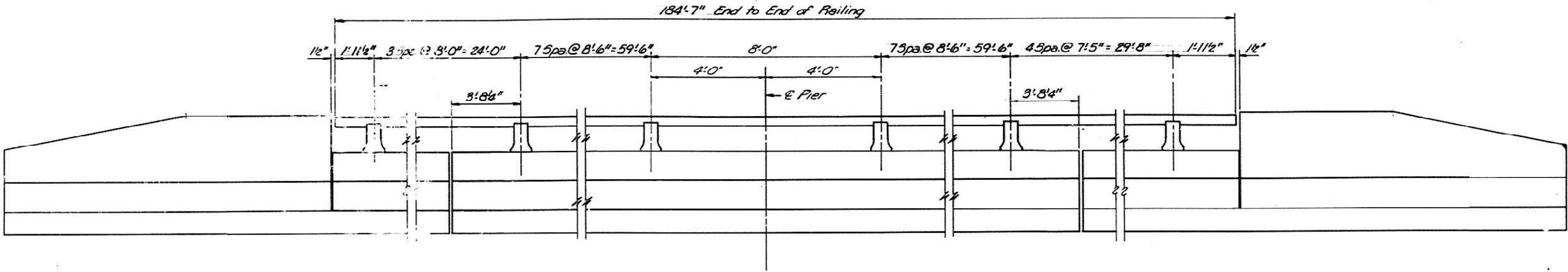
PLAN OF APPROACH SPAN NO. 4
E.B. & W.B. Structures Same except as
noted & shown.

USER NAME = edison.zohfonyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE:		SHEET 9 OF 21 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT	
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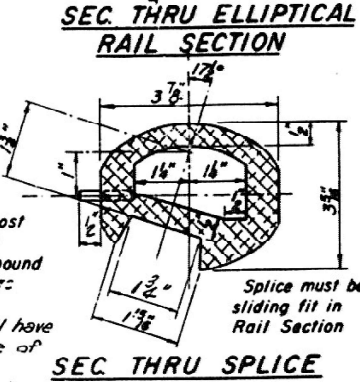
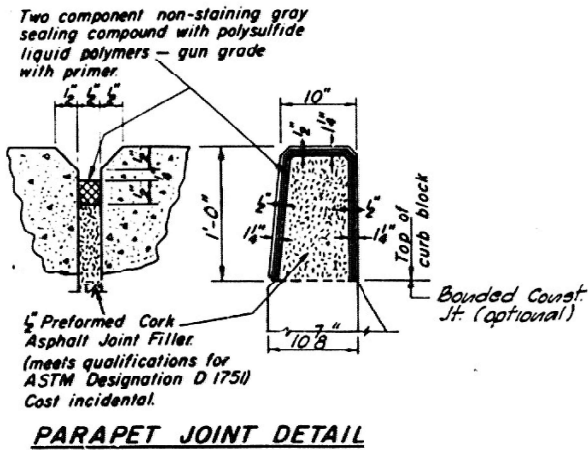
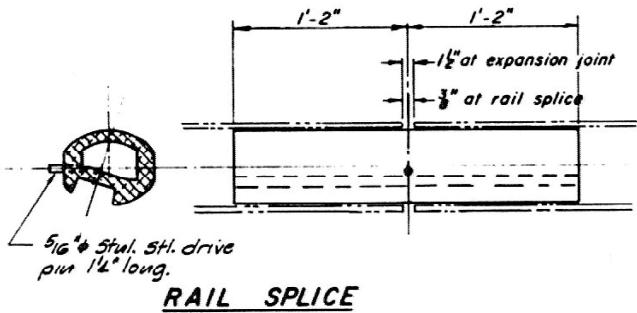
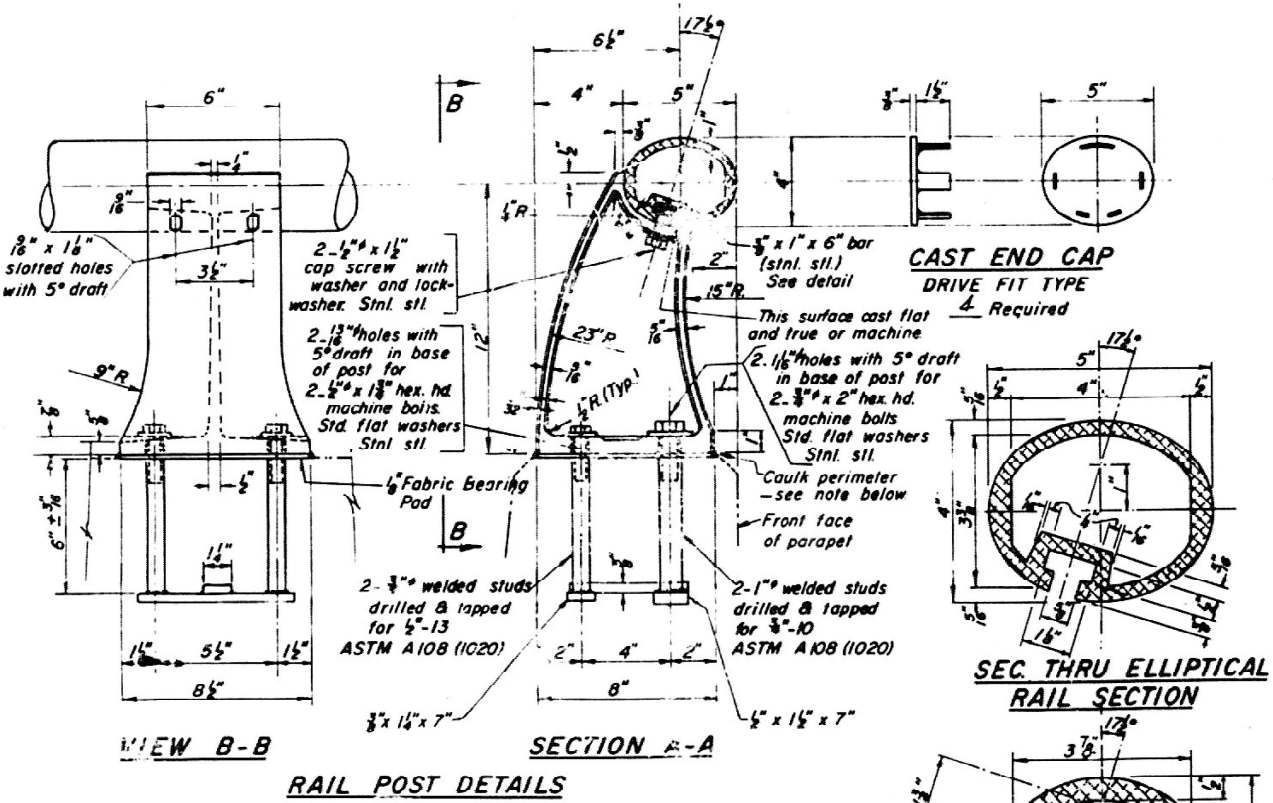
NOTES

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1- $\frac{1}{8}$ " and 2- $\frac{1}{8}$ " Aluminum Shim for 25% of the Posts. Rail element shall be parallel to Grade-high spots shall be ground and low spots shimmed.

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi., min. tensile 38 ksi., and elongation of 10% in 2 inches.



Note:
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer.
Fabric Bearing Pad shall have same dimensions as base of post.

BILL OF MATERIAL (2 STRUCTURES)

Item	Unit	Quantity
ALUMINUM RAILING	Lin. Ft.	738

REVISIONS				DRAWN BY DATE	
NO.	DATE	INITIALS	DESCRIPTION	DATE	NO.
1					
2					
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STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BLDGS. DIVISION OF HIGHWAYS		DRAWN BY DATE M.L.T. 11-69	
FAL 64 OVER FA 117 FAL 64 SEC 82-9HB-1 STA 1365+47.46 (FAL 64)		CHECKED BY DATE FAL 11-64	
PROJECT ST. CLAIR CO.		PROJECT NO. 14483-3	
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		SHEET NO. 44	

FOR INFORMATION ONLY

USER NAME = edison.zohfonyl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 10 OF 21 SHEETS STA. TO STA.

FAL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-8P	ST. CLAIR	26	15
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

MODEL: Existing Structure-12 [Sheet]
FILE NAME: c:\nw\work\dwg\illinois gov\edison\zohforw\illinois gov\edison\zohforw\illinois gov\1051078\ID876T06-shi-plan.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-64	B29HB-1	ST. CLAIR	42	47
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

Sheet N^o 12
of 21 Sheets.

NOTES:
See Sht. N^o 11 of 21 for additional Bent cap Dts.
See Sht. N^o 19 of 21 for Bridge Seat Elevations.

BILL OF MATERIAL

Abut., Wings & Bent Cap

Bar	N ^o	Size	Length	Shape
d11	15	#5	49'	
d12	12	#4	9'-0"	
d13	80	#5	4'-6"	
d14	85	#5	3'-5"	
d15	8	#5	2'-9"	
h13	30	#4	36'-11"	
h16	4	#4	31'-1"	
h18	23	#5	25'-5"	
h19	22	#4	25'-5"	
h20	4	#5	27'-0"	
h21	6	#5	6'-0"	
h22	6	#5	6'-0"	
h23	4	#7	31'-0"	
h25	12	#5	32'-0"	
h26	6	#5	2'-9"	
h27	6	#5	5'-9"	
h4	109	#5	4'-0"	

P5	4	#5	26'-3"	
P6	10	#7	26'-9"	
P9	2	#4	26'-8"	

98	50	#4	11'-10"	
99	23	#4	2'-9"	
910	23	#4	2'-5"	
911	24	#4	10'-8"	
912	28	#4	3'-2"	

T1	62	#6	5'-6"	
----	----	----	-------	--

U	14	#6	16'-5"	
U1	14	#6	6'-5"	
U2	8	#6	10'-2"	

V2	60	#4	24'-0"	
V3	8	#5	4'-9"	
V4	109	#5	19'-3"	
V5	8	#5	3'-0"	

W1	10	#5	26'-0"	
----	----	----	--------	--

Class X Concrete	Cu. Yds	137.8
Reinforcing Bars	Lbs.	9510
STEEL Piles (3BP36)	Lin. Ft.	690
Test Piles (Steel)	Each	1

ABUTMENT BENT CAP #1 E.B. STR.

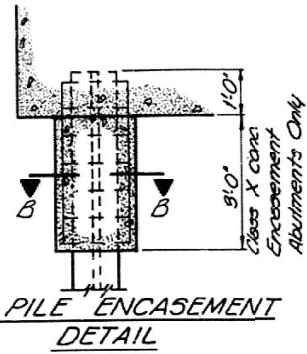
REVISIONS		DATE	BY	REASON
1				
2				
3				
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10				

STATE OF ILLINOIS
DEPT. OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

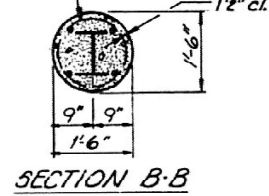
FAI 64 OVER FAI 17
FAI 64 DEC 82-9HB-1 PROJECT
STA. 1365 + 47.46 (FAI 64) ST. CLAIR CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DESIGNED BY DATE
MLT 8-69
CHECKED BY DATE
FHL 11-69
DATE
PROJECT NO.
14483
SHEET NO.
47

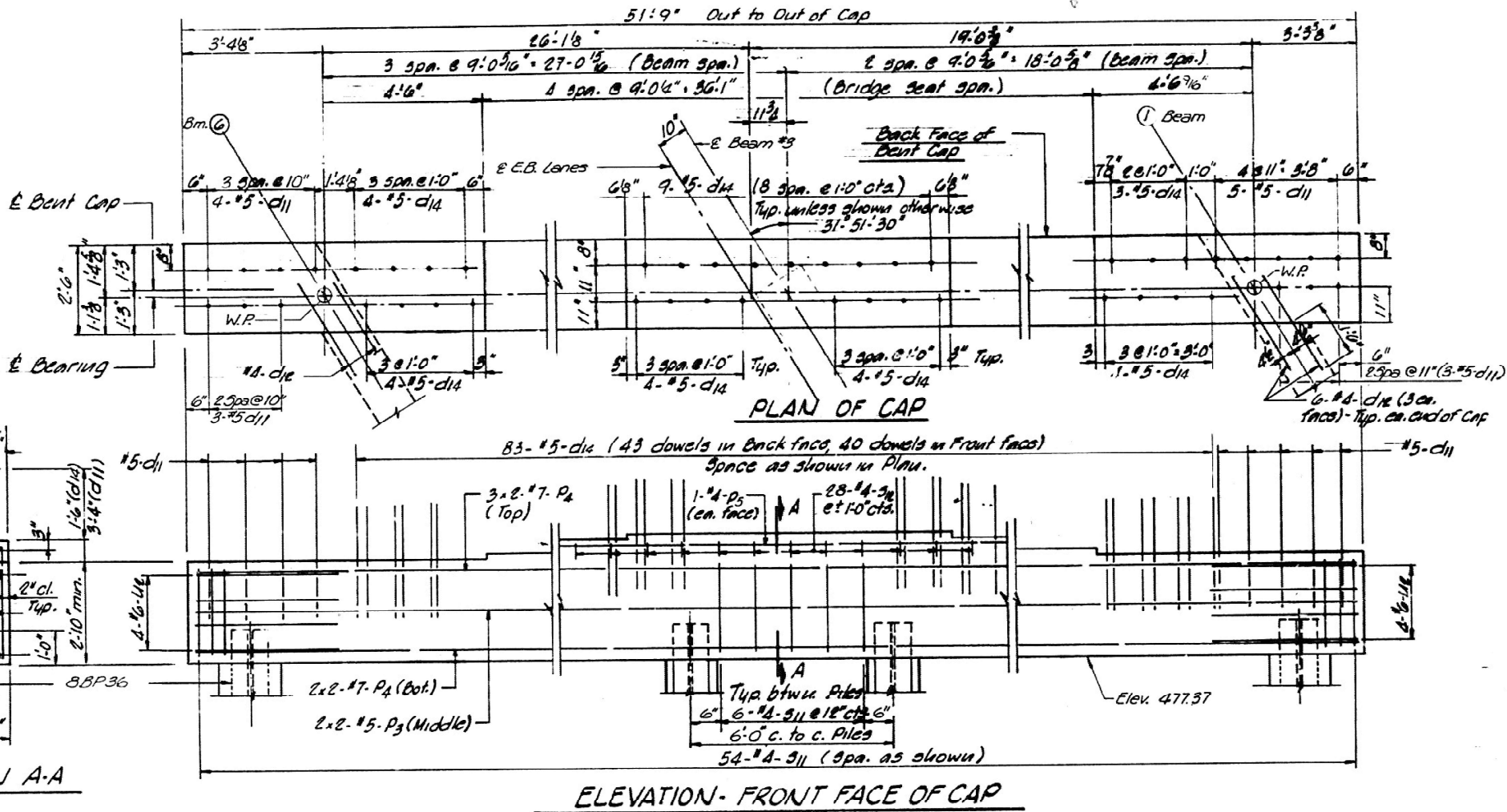


Welded wire fabric 6"x6" mesh
#4 Wires - Wt. 58#/100 sq. ft. plus
4-#4 Tie Bars. The cost of Class
X Concrete Encasement and Rein-
forcement is incidental to the
cost of furnishing Piles.

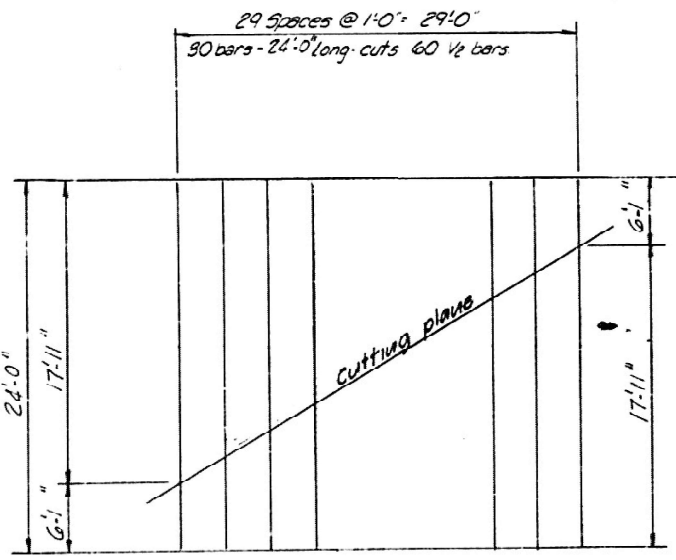


PILE DATA (Bent Cap)

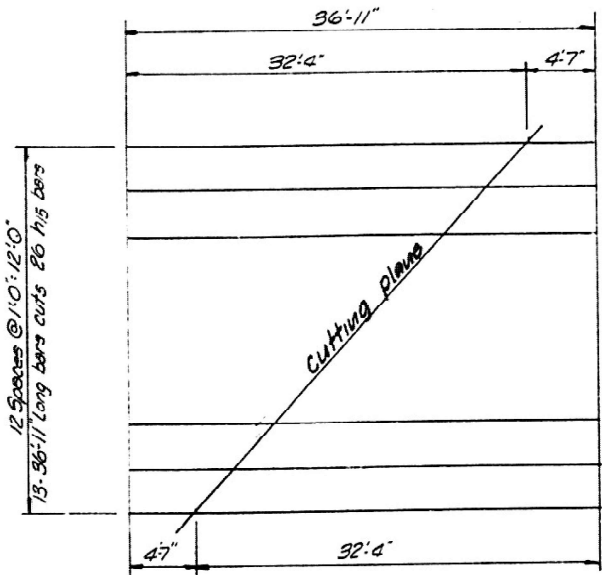
Type - 8BP 36 Steel
Drive to refusal
No. Req'd - 9
Est. Length - 30 L.F.



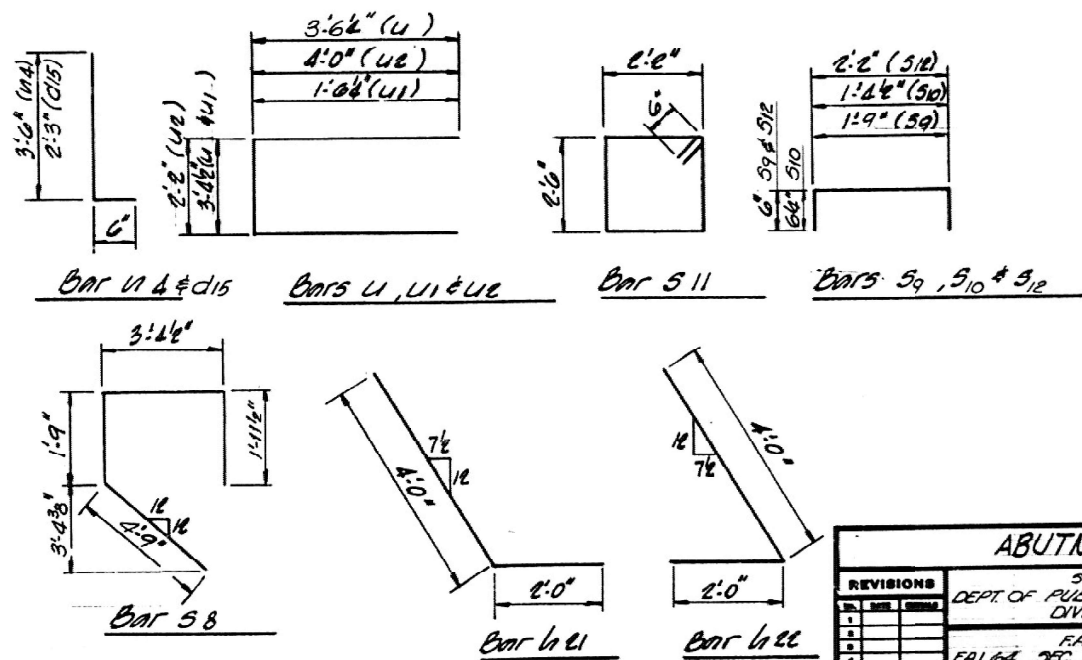
SECTION A-A



Cutting Diagram for "V2" Bars.



Cutting Diagram for "h13" Bars.



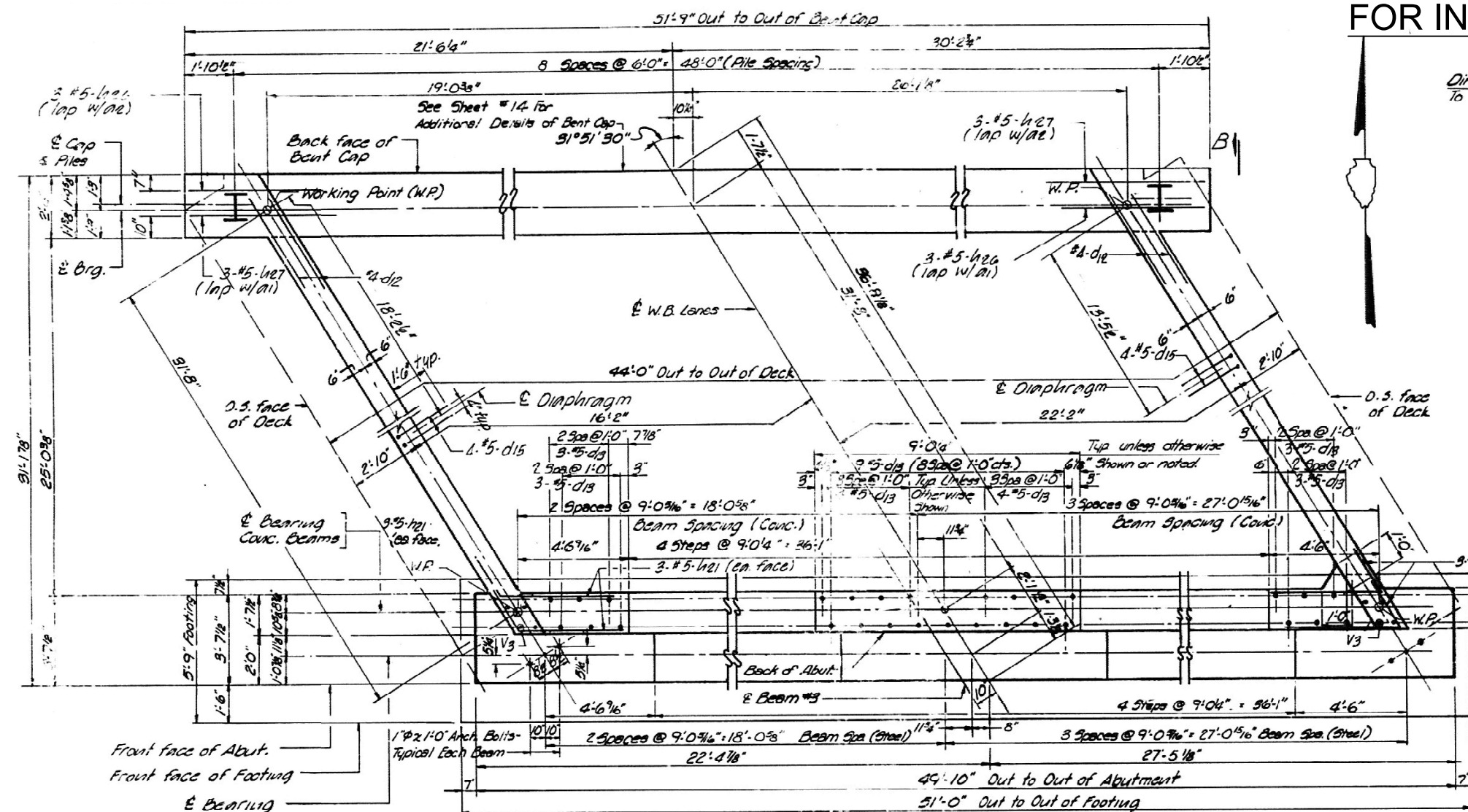
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

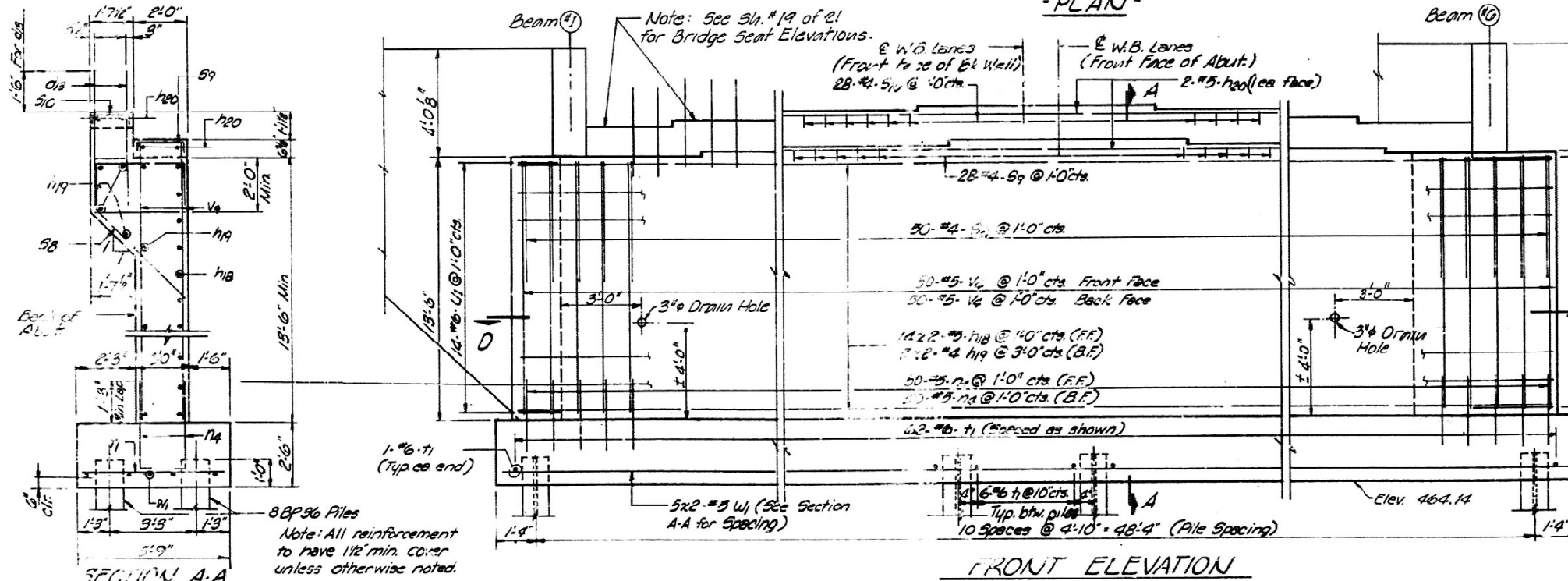
STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	18
				CONTRACT NO. 76106
				ILLINOIS FED. AID PROJECT

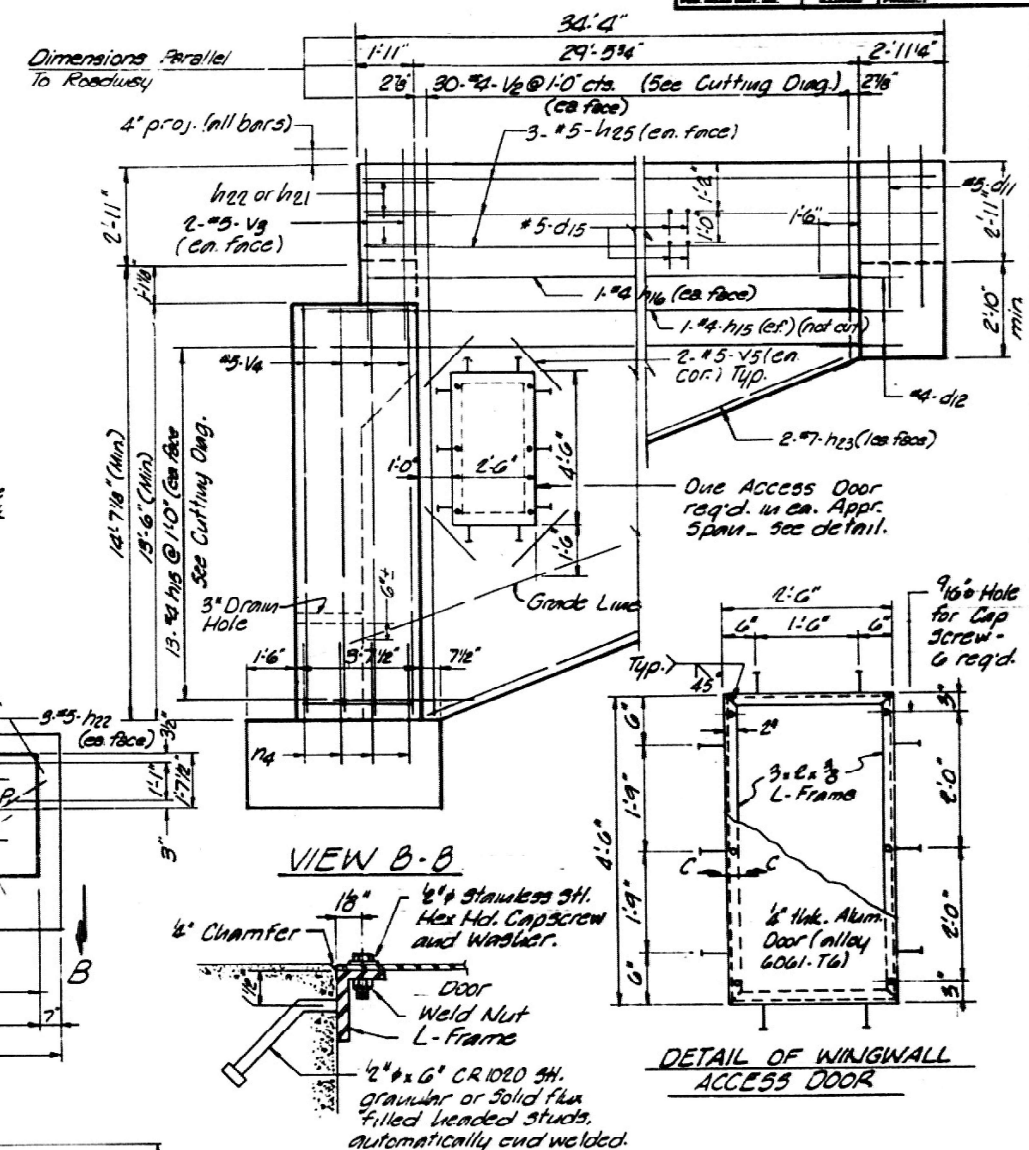
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL-64	82-9HB	ST. CLAIR	92	48
FED. ROAD DIST. NO.		S.L.S. NO.	PROJECT	



- PLAN -



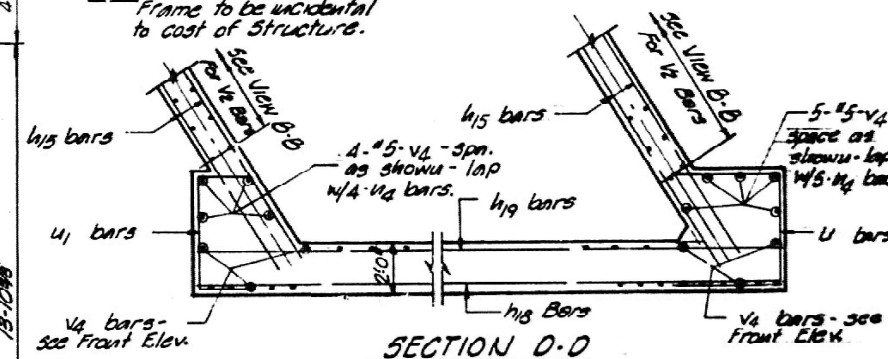
FRONT ELEVATION



DETAIL OF WINGWALL
ACCESS DOOR

SECTION C-C

NOTE: Cost of Access Door &
Frame to be incidental
to cost of Structure.



SECTION 0-0

PILE DATA (Abut.)

Type - 8 BP 36
Drive to refusal
No. Req'd. - 22
Est. Length - 20'

ABUTMENT #1, W.B. STRUCT.

REVISIONS			STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS		DRAWN BY: SAE M.T. 5-64 CHECKED BY: SAE F.M. 11-64 DATE: 11-64
1	DATE	REVISION	FAI 64 OVER FAI 17 PROJECT FAI 64 82-94B1 STA 1365+47.46 (FAI 64)		ST. CLAIR CO. PROJECT NO. 148-3
2			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		SHEET NO. 48

USER NAME = edison.zohfonyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE:		SHEET 14 OF 21 SHEETS		STA.	TO STA.	CONTRACT NO. 76T06	
						ILLINOIS	FED. AID PROJECT

BILL OF MATERIAL

Bar	Nº	Size	Length	Flags
d11	15	#3	4'-0"	
d12	12	#3	3'-0"	
d13	80	#4	4'-6"	
d14	88	#5	3'-3"	
d15	8	#5	2'-9"	
n15	30	#6	36'-11"	
n16	4	#2	3'-1"	
n18	28	#3	25'-3"	
n19	22	#3	25'-3"	
n20	4	#3	27'-0"	
n21	6	#5	6'-0"	
n22	6	#5	6'-0"	
h23	4	#7	34'-0"	
h25	12	#5	34'-0"	
h26	6	#5	2'-9"	
h27	6	#5	5'-9"	
n4	109	#3	4'-0"	

P3	4	3	26'3"	—
P4	10	7	26'9"	—
P5	2	4	26'8"	—

58	50	"6	11'-10"	5
59	28	"6	24'	[]
510	28	"6	25"	[]
511	54	"6	10'-0"	13
512	28	"6	82'	[]

71	62	66	5'6"	
----	----	----	------	--

U	14	%	18-5"	☐
U1	14	%	6'5"	☐
U2	8	%	108"	☐

V2	60	44	24:0"	—
V3	8	55	49"	—
V4	109	45	19:3"	—
V5	8	45	9:0"	—

WI	10	#5	26'-0"	
----	----	----	--------	--

Class x Concrete	cu yds	157.8
Reinforcing bars	lbs	9510
Steel Piles (8BP36)	lin. ft	710

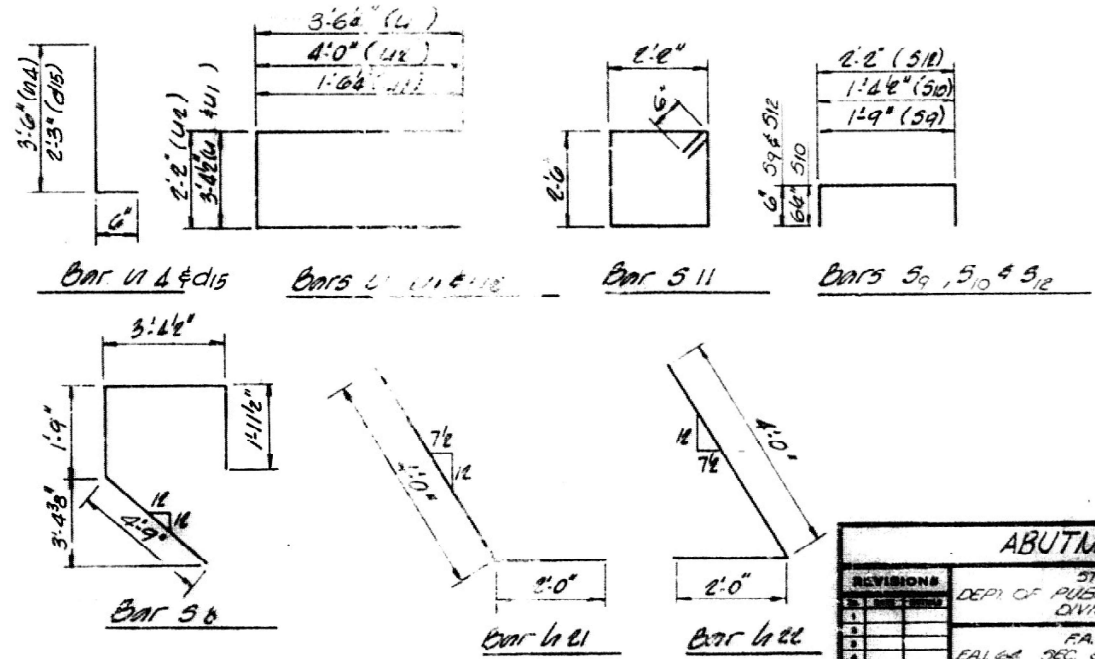
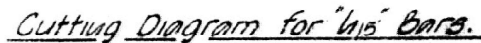
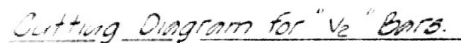
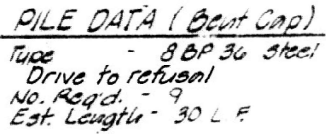
ABUTMENT BENT CAP #1 W.B. 573

STATE OF ILLINOIS
PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

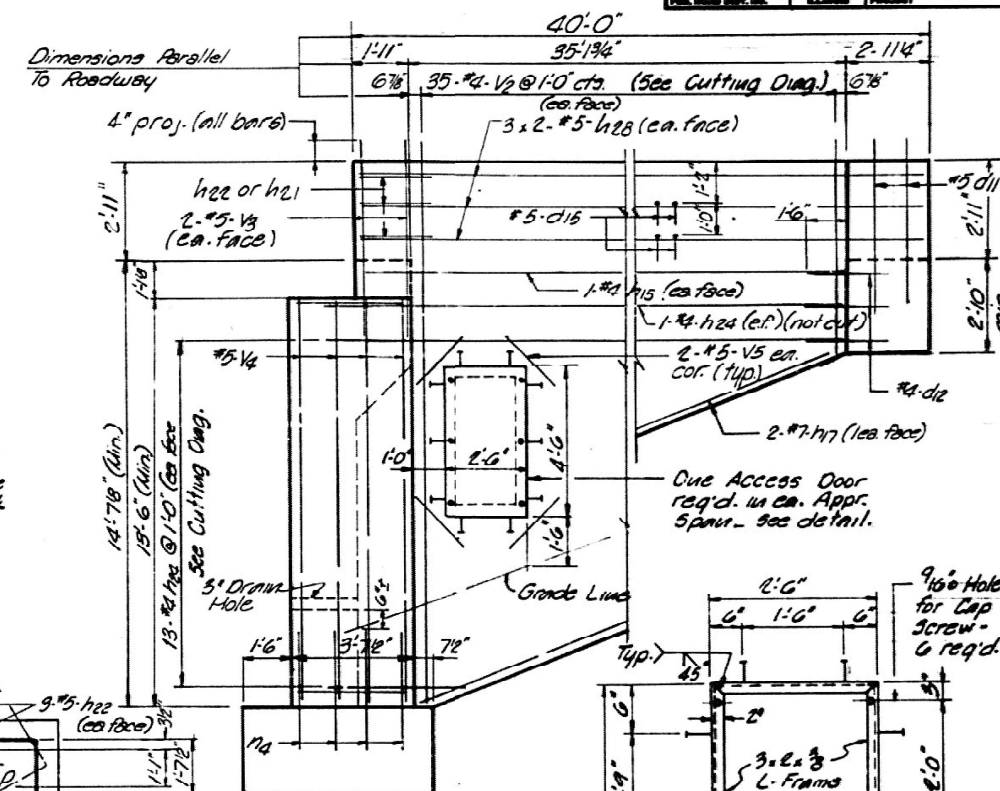
FAI 64 OVER FAI 17
FAI 64 DEC 80-94B-1 PROJECT
STA 1365 +47.46 (FAI 64) ST CLAIR CO

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	20
CONTRACT NO. 76T06				
ILLINOIS		FED. AID PROJECT		

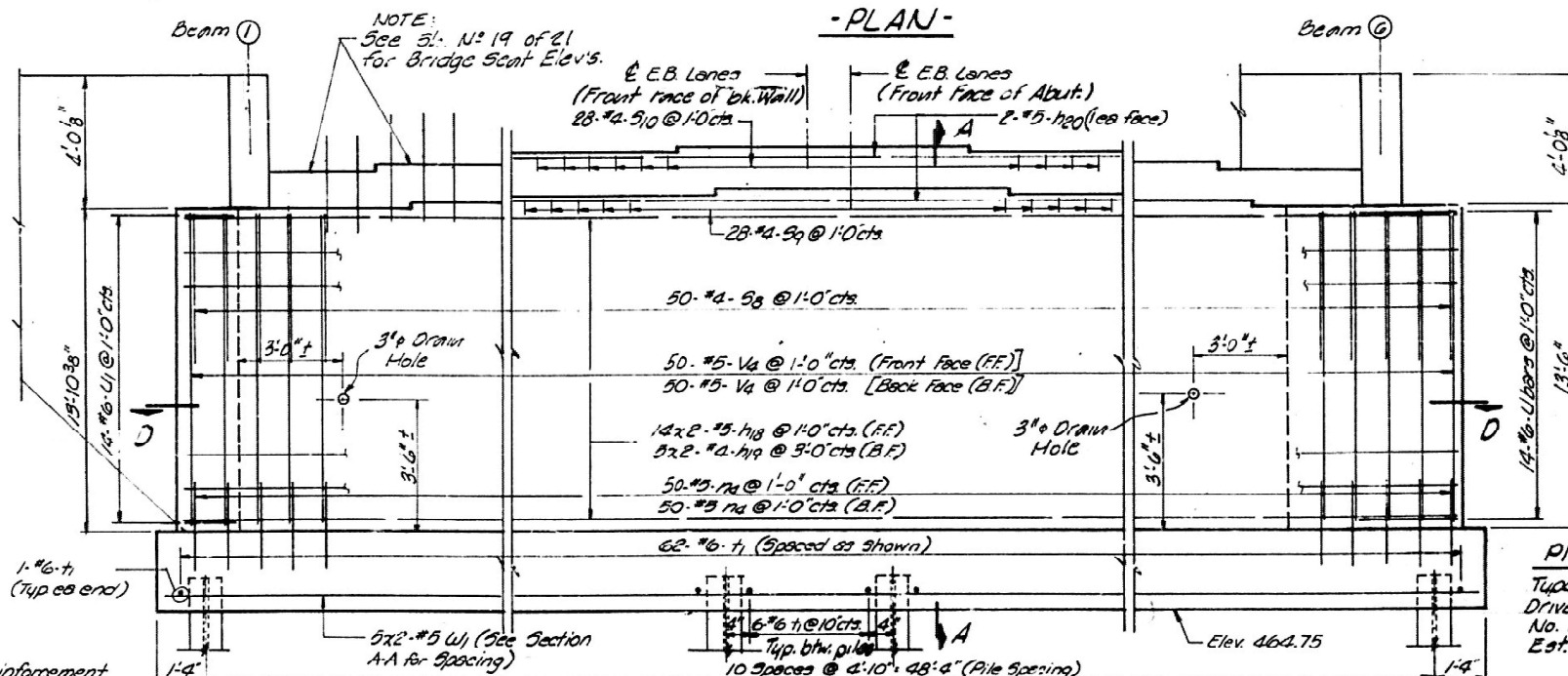


FOR INFORMATION ONLY



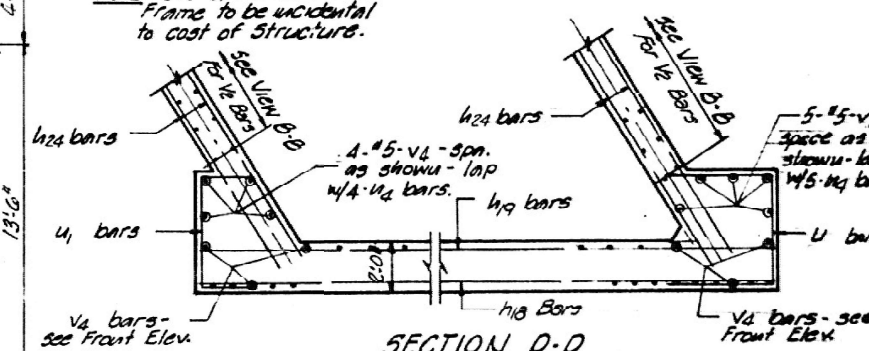
DETAIL OF WING
ACCESS DOOR

NOTE: Cost of Access Door &
Frame to be incidental
to cost of Structure.



FOR INFORMATION ONLY

ABUTMENT #2 - E.B. STRUCT.



PILE DATA (Abut.)
Type - 8 BP 36
Drive to refusal!
No. Req'd. - 22
Est. Length - 21'

REVISIONS			STATE OF ILLINOIS	DESIGNED BY MLT 5-
1.	DATE	REVISION	DEPT. OF PUBLIC WORKS AND BUILDINGS	PROJECT NO. FML 114
2.			DIVISION OF HIGHWAYS	SCALE AS SHOWN
3.			FAI 64 OVER FAI 17	PROJECT BY MAAS
4.			SEC. 82.94B-1 PROJECT	REVISION NO.
5.			STA 1365 + 47.66 (FAI 64) ST. CLAIR CO.	50
6.			HOMER L. CHASTAIN & ASSOCIATES	
7.			CONSULTING ENGINEERS	
8.			DECATUR, ILLINOIS	

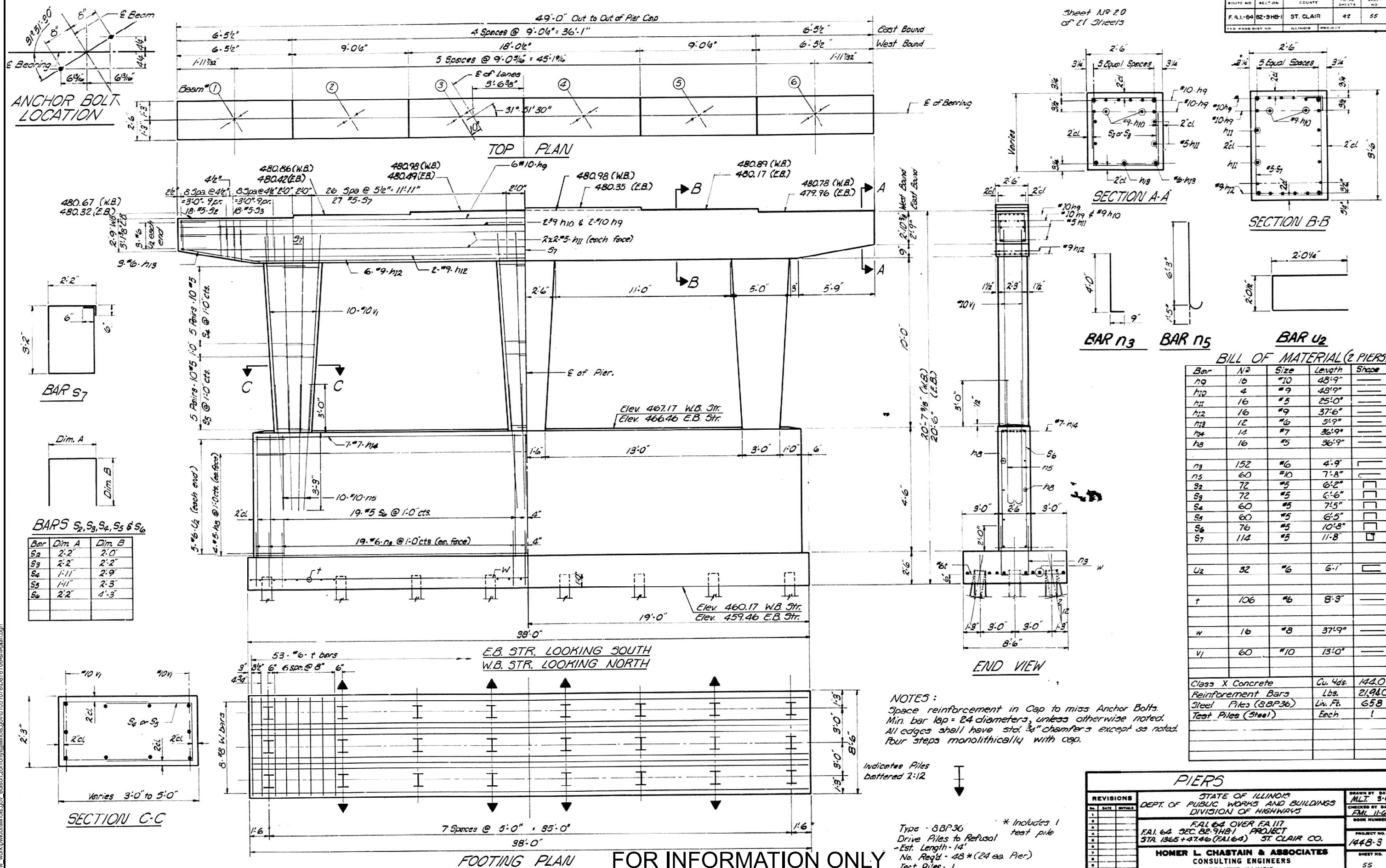
USER NAME = edison.zohfonyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE:	SHEET 18 OF 21 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT
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Sheet No 20
of 21 Sheets



USER NAME = edison.zohfanyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 17 OF 21 SHEETS STA. TO STA.

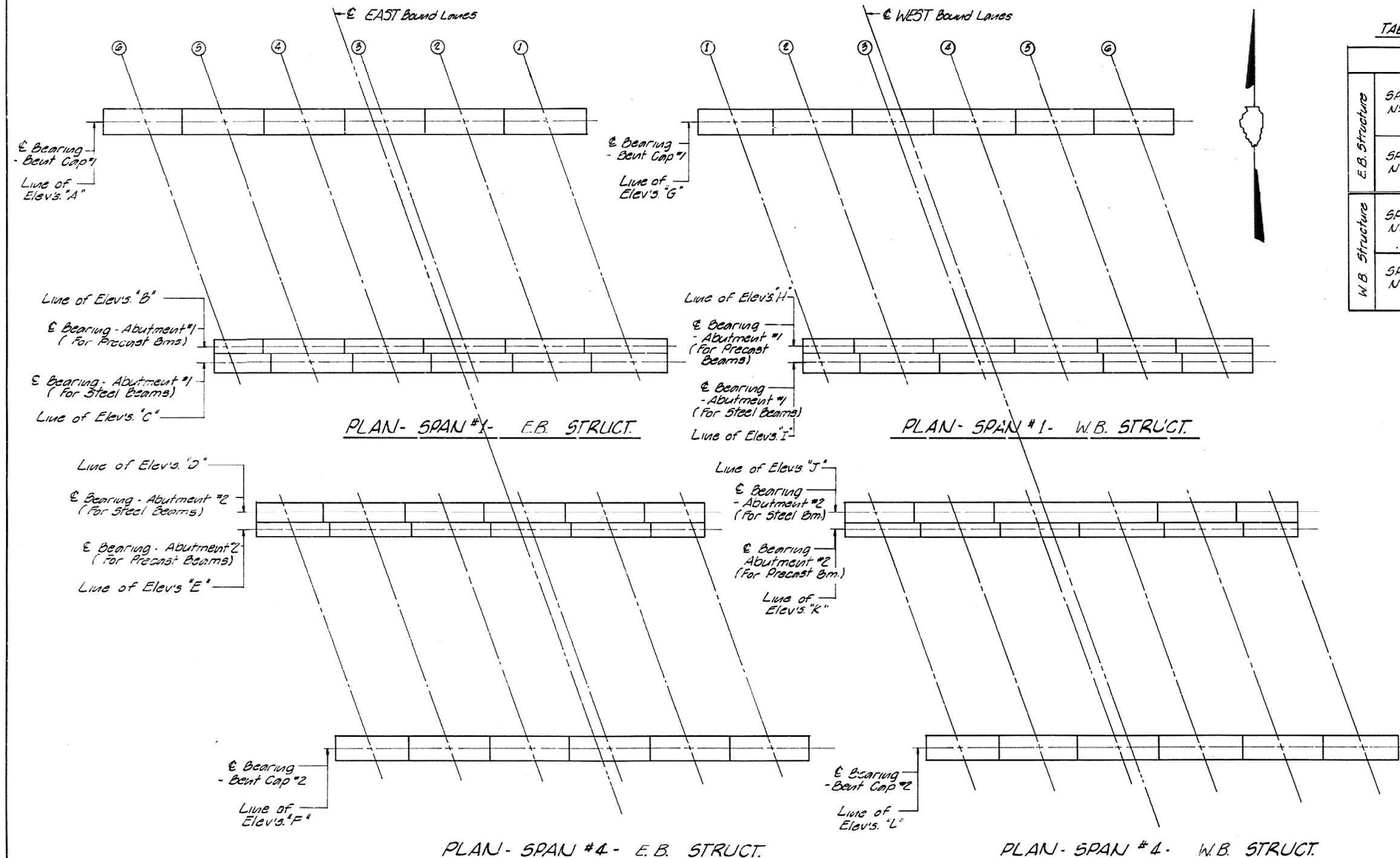
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	22
CONTRACT NO. 76106				
ILLINOIS FED. AID PROJECT				

Sheet No 19
of 21 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-64	82-9HB-1	ST. CLAIR	92	54
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

TABLE OF BRIDGE SEAT ELEVATIONS

Location		Bm. #1	Bm. #2	Bm. #3	Bm. #4	Bm. #5	Bm. #6
E.B. Structure	SPAN No 1	Line "A"	480.51	480.66	480.73	480.99	480.41
		Line "B"	480.88	480.93	481.05	480.91	480.73
		Line "C"	479.79	479.89	479.96	479.82	479.64
	SPAN No 4	Line "D"	481.12	481.21	481.28	481.14	480.96
		Line "E"	482.25	482.35	482.42	482.28	482.10
		Line "F"	482.63	482.72	482.79	482.65	482.47
W.B. Structure	SPAN No 1	Line "G"	480.91	481.10	481.27	481.22	481.14
		Line "H"	481.23	481.42	481.59	481.54	481.46
		Line "I"	480.14	480.33	480.45	480.45	480.36
	SPAN No 4	Line "J"	481.46	481.65	481.77	481.77	481.69
		Line "K"	482.60	482.79	482.95	482.91	482.88
		Line "L"	482.97	483.16	483.33	483.28	483.20



FOR INFORMATION ONLY

REVISIONS		ABUTMENTS (BRIDGE SEAT ELEVATIONS)	
NO.	DATE	STATE OF ILLINOIS DEPT. OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	DRAWN BY DATE REG 5/89
1		FAI 64 OVER FA 117 FAI 64 SEC. 82-9HB-1 PROJECT STA. 1365 + 47.46 (FAI 64) ST. CLAIR CO.	CHECKED BY DATE FAL 11-61
2			BOOK NUMBER
3			PROJECT NO. 1448-3
4			SHEET NO. 54
5			
6			
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USER NAME = edison.zohfonyl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 18 OF 21 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	23
CONTRACT NO. 76T06				
ILLINOIS FED. AID PROJECT				

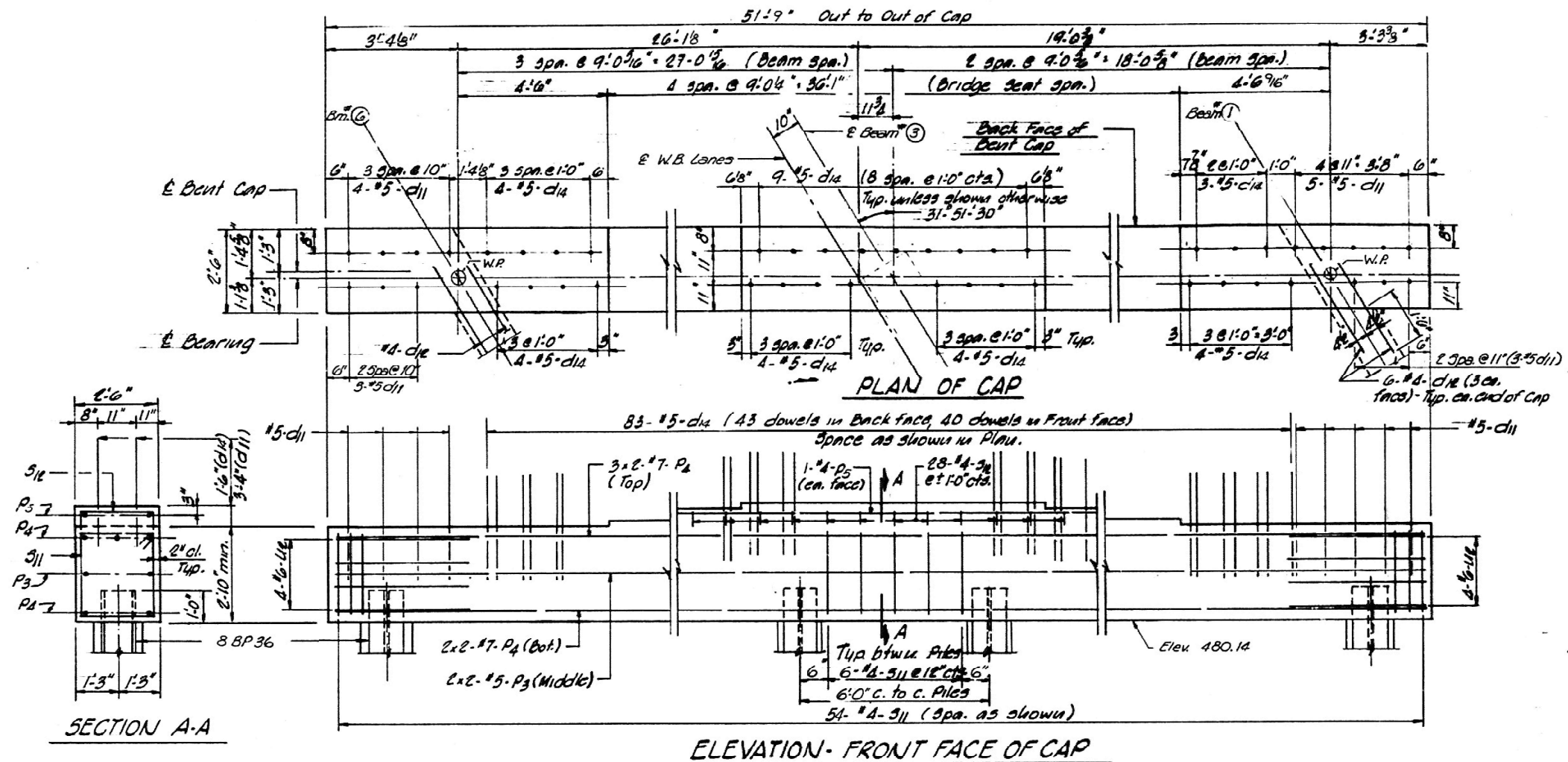
About., Wings & Bent Cap

Class X Concrete	Cu yds	142.8
Reinforcing Bars	lbs	9920
Steel Piles (3BP36)	lin.ft	750

STATE OF ILLINOIS DRAWN BY DATE

REVISIONS			STATE OF ILLINOIS		DRAFT BY DATE		
1	REV	DATE	DEPT. OF PUBLIC WORKS AND BUILDINGS		M.L.T. 5-69		
2			DIVISION OF HIGHWAYS		CHECKED BY DATE		
3					F.M.L. 11-67		
4			FAI 64 OVER FA 117		PROJECT NUMBER		
5			SEC. 82-9H31 PROJECT		PROJECT NO.		
6			STA 1365 +47.46 (FAI 64) ST CLAIR CO.		14483		
7			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS				GRAPHY NO.
8							53
9							
10							

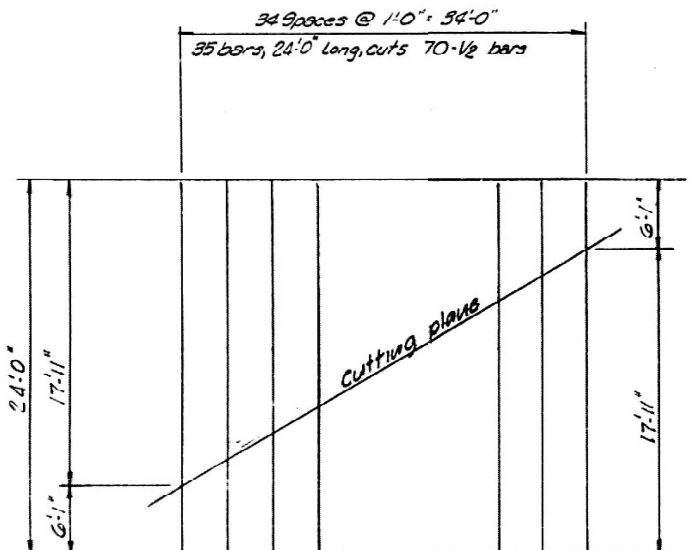
FOR INFORMATION ONLY



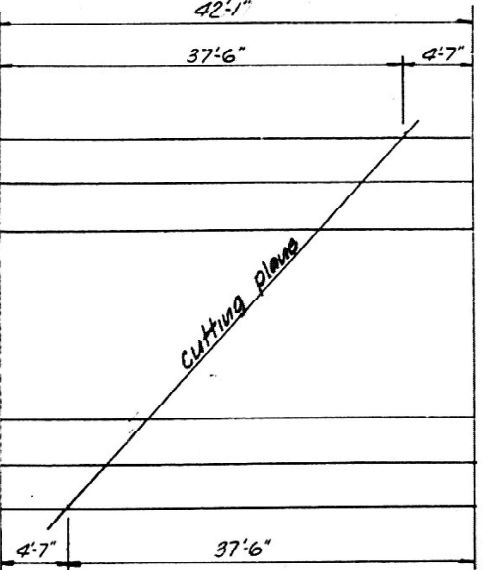
See Sheet N^o 17 of 21 for additional Bent Cap details.
See Sheet N^o 19 of 21 for Bridge Bent Elevations.
See Sheet N^o 12 of 21 for pile encasement detail.

Page - 88031. 96-1

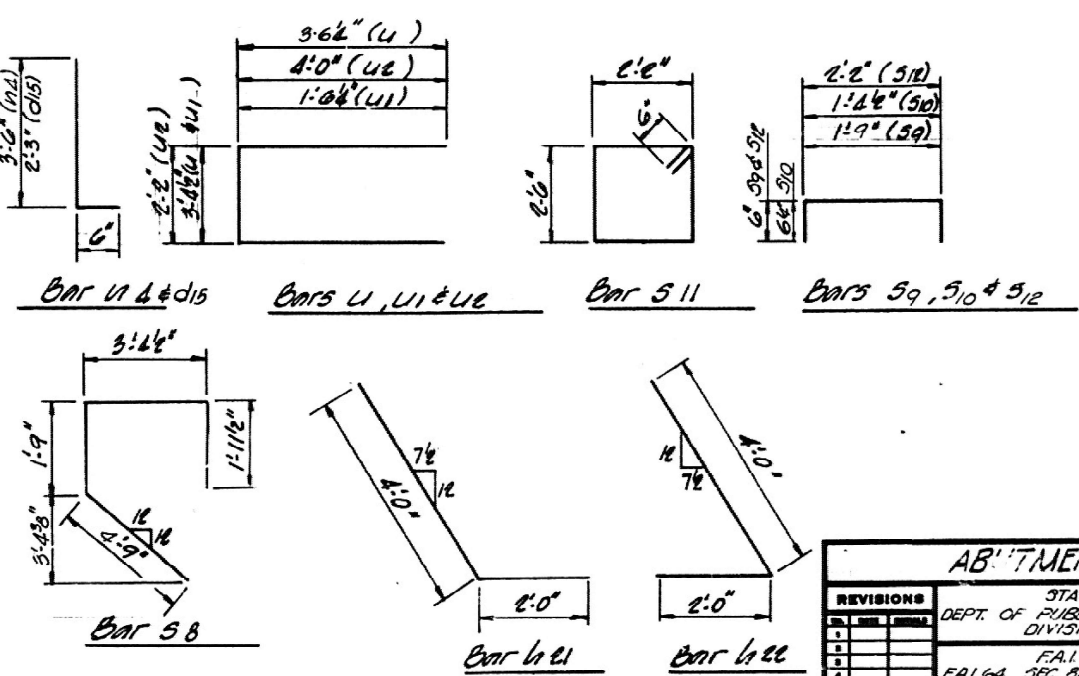
Drive to refusal
No. Req'd. - 9
Est. Length - 32 L.F.



Cutting Diagram for "V₂" Bars.



Cutting Diagram for "hex" Bars.

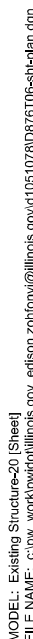


USER NAME = edison.zohfonyi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	24
		CONTRACT NO. 76T06		
		JUNIOR	FED. AID PROJECT	



F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE NO.
64	82-9HB-BP	ST. CLAIR	26	25
		CONTRACT NO. 76T06		
		ILLINOIS FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-64	82-9HB-1	ST. CLAIR	42	51

Sheet No 16
of 21 Sheets.

BILL OF MATERIAL

Abut., Wings & Bent Cap

Bar	No	Size	Length	Shape
d11	15	#5	4'-9"	
d12	12	#5	3'-0"	
d13	20	#5	4'-6"	
d14	28	#5	3'-3"	
d15	8	#5	2'-9"	
n15	4	#5	36'-11"	
n17	4	#7	36'-6"	
n18	28	#5	25'-5"	
n19	22	#5	25'-3"	
n20	4	#5	27'-0"	
n21	6	#5	6'-0"	
n22	6	#5	3'-0"	
n24	30	#5	42'-1"	
h26	6	#5	4'-9"	
h27	6	#5	5'-9"	
h28	24	#5	20'-6"	
n4	109	#5	4'-0"	
p3	4	#5	26'-3"	
p4	10	#7	26'-9"	
p5	2	#5	26'-8"	
u	14	#5	10'-5"	
u1	14	#5	6'-5"	
u2	8	#5	10'-2"	
v2	70	#5	24'-0"	
v3	8	#5	4'-7"	
v4	109	#5	13'-3"	
v5	8	#5	3'-0"	
w1	10	#5	26'-0"	

NOTES:

See Sheet No 15 of 21 for additional Bent Cap details.
See Sheet No 14 of 21 for Bridge Bent Elevations.
See Sheet No 12 of 21 for pile encasement detail.

PILE DATA (Bent Cap)

Type - 8 BP 36 Steel
Drive to refusal
No. Req'd. - 9
Est. Length - 32 L.F.
*includes 1 Test Pile

Class X Concrete	Guided 142B
Reinforcing Bars	1ba 9920
Steel Piles (8BP36)	1mth 718
Test Piles (Steel)	ca. 1

ABUTMENT BENT CAP #2 E.B. STR.

REVISIONS	DATE	BY	APP.
1			
2			
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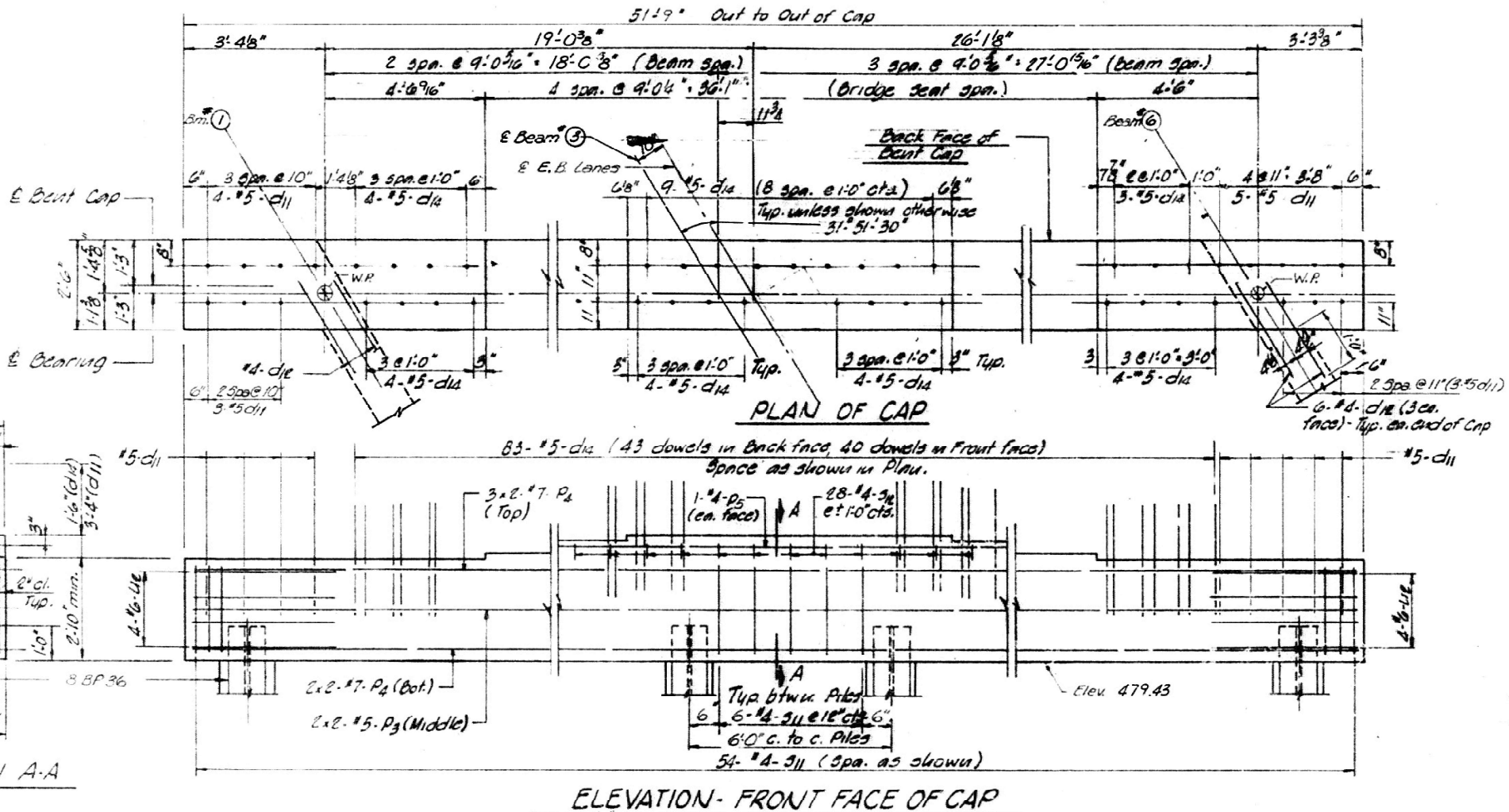
STATE OF ILLINOIS
DEPT. OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

FAI-64 OVER FAI-117
STA 1365+47.46 (FAI-64) ST. CLAIR CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

PROJECT NO.
1428-3
SHEET NO.
51

FOR INFORMATION ONLY



Cutting Diagram for 've' Bars.

Cutting Diagram for 'u' Bars.

USER NAME = edison.zohfonyl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
LOCATION #1 (SN 082-0192) & LOCATION #2 (SN 082-0193)

SCALE: SHEET 21 OF 21 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-9HB-BP	ST. CLAIR	26	26
CONTRACT NO. 76106				
ILLINOIS FED. AID PROJECT				