04–23–2021 LETTING ITEM 069

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	1
	ILLINOIS	CONTRACT NO. 76P10		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA – SN 082–0141 (I–55/64 OVER IC RR)

2017 ADT = 23000 (ACTUAL)

2021 ADT = 23600 (ESTIMATED)

2041 ADT = 26500 (ESTIMATED)

SU = 2.2% MU = 2.2%

TRAFFIC DATA – SN 082–0001 and SN 082–0015 (I–64 and I–55 OVER ST. CLAIR. AVE)

2019 ADT = 23300 (ACTUAL)

2021 ADT = 23600 (ESTIMATED)

2041 ADT = 26600 (ESTIMATED)

SU = 1.8 MU = 3.9%

TRAFFIC DATA – SN 082–0001 and SN 082–0015 (ST. CLAIR. AVE)

2019 ADT = 4300 (ACTUAL)

2021 ADT = 4350 (ESTIMATED)

2041 ADT = 4950 (ESTIMATED)

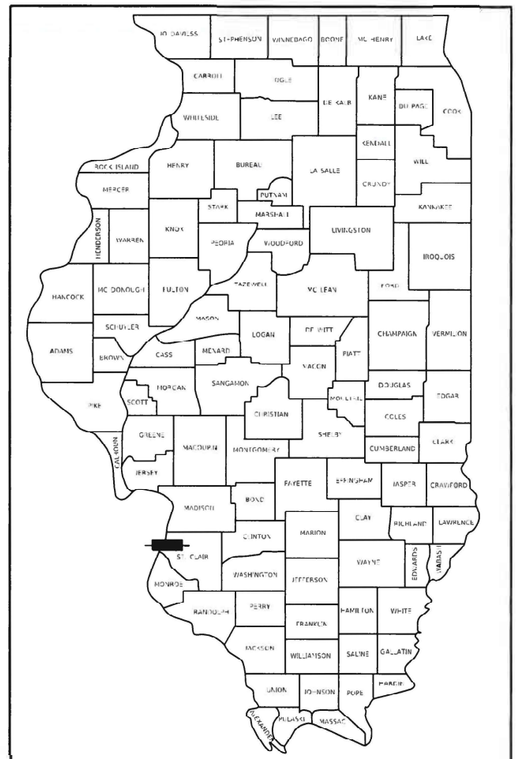
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 55/64 (I–055/064)
SECTION 82–2HB–BP–1, 82–3HVB–3BP–1
PROJECT NHPP-TC27(887)
BRIDGE PAINTING
ST. CLAIR COUNTY

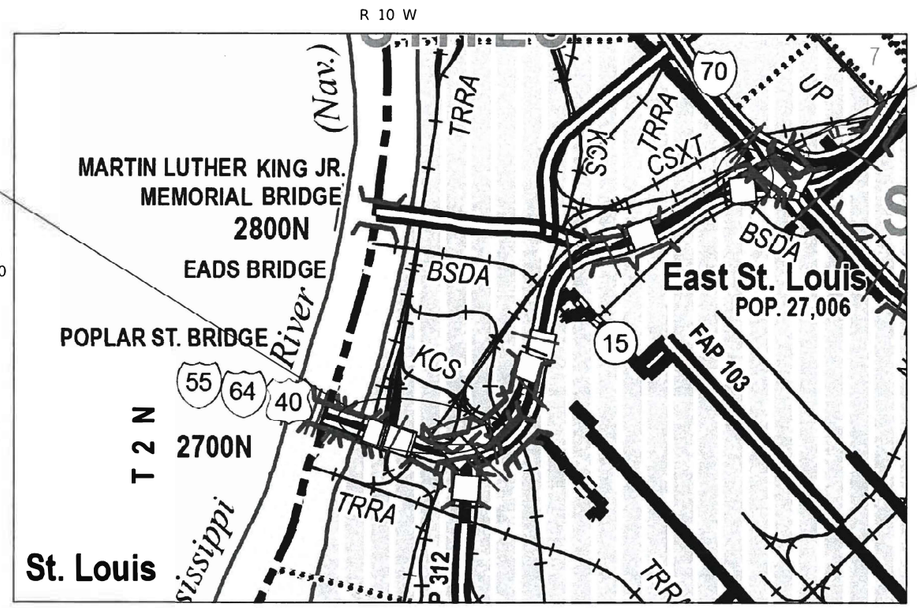
C–98–041–21

D-98-017-21



LOCATION OF SECTION INDICATED THUS: –

R 10 W



LOCATION ONE

SN 082-0141
OVER IR RAILROAD
LATITUDE: 38.616603
LONGITUDE: -90.169760

LOCATION TWO

SN 082-0015
SN 082-0001
OVER ST. CLAIR AVE
LATITUDE: 38.633884
LONGITUDE:-90.147305

N

100' 200' 300' — 1" = 100'
10' 20' 30' — 1" = 10'
50' 100' — 1" = 50'
50' 100' — 1" = 40'
50' 100' — 1" = 30'
50' 100' — 1" = 20'

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 5 2021
K Robertz JDM
REGIONAL ENGINEER

March 19, 2021
Jae E.A. Gelin
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER : HERVE GELIN (618) 346–3179
PROJECT MANAGER : ROBERT HUGHES (618) 346–3187

GROSS LENGTH = 2256 FT. = 0.427 MILE
NET LENGTH = 2256 FT. = 0.427 MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 76P10

REV. - MS

INDEX OF SHEETS

HIGHWAY STANDARDS

515001-04	NAME PLATE FOR BRIDGES
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT

GENERAL NOTES

1. THE FOLLOWING UTILITIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA AS FOLLOWS:

AMEREN ILLINOIS — JULIE MEMBER*
GAS & ELECTRIC — AERIAL, BURIED
500 EAST BROADWAY MC ES 830EAST ST. LOUIS IL 62201

AT&T — JULIE MEMBER*
COMMUNICATIONS — AERIAL, BURIED
160 W DIVISION ST MARYVILLE IL 62062

CLEARWAVE COMMUNICATIONS — JULIE MEMBER*
COMMUNICATIONS — AERIAL, BURIED
TWO NORTH VINE ST 2ND FLOOR P.O. BOX 808 HARRISBURG IL 62946

CITY OF EAST ST. LOUIS — JULIE MEMBER*
LIGHTING — AERIAL
301 RIVERPARK DRIVE EAST ST. LOUIS 62201-3028

EXPLORER PIPELINE COMPANY — JULIE MEMBER*
PIPELINE — BURIED
WOOD RIVER ARE OFFICE 1355 ROBBINS ROAD HARTFORD IL 62048

ILLINOIS AMERICAN WATER COMPANY — JULIE MEMBER*
WATER — BURIED
4436 INDUSTRIAL DRIVE P.O. BOX 186 ALTON IL 62002

LEVEL 3 COMMUNICATIONS, LLC — JULIE MEMBER*
COMMUNICATIONS — AERIAL, BURIED
1015 LOCUST STREET SUITE 800 ST. LOUIS MO 63101

VERIZON BUSINESS — JULIE MEMBER*
COMMUNICATIONS — AERIAL, BURIED
900 WALNUT STREET 6TH FLOOR ST. LOUIS MO 63102

MEDIACOM LLC CENTRAL — JULIE MEMBER*
CABLE TV — AERIAL, BURIED
90 MAIN STREET BENTON KY 42025

METRO EAST SANITARY DISTRICT — JULIE MEMBER*
SANITARY SEWER — BURIED
1800 EDISON AVENUE P.O. BOX 1366 GRANITE CTY IL 62040

SPIRE STIL PIPELINE LLC — JULIE MEMBER*
SANITARY SEWER — BURIED
700 MARKET 3RD FLOOR ST. LOUIS MO 63101

MEMBERS OF J.U.L.I.E. (800)892-0123 ARE INDICATED BY AN *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS

3. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS 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 SPECIFICAITONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS

4. 5 CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED 1 WEEK PRIOR TO ANY LANE CLOSURE AND SHALL REMAIN UP FOR THE DURATION OF THE PROJECT. THE CHANGEABLE MESSAGE SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

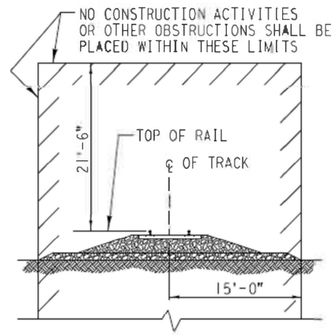
5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, 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.

6. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A WORK PLAN TO THE RAILROAD FOR REVIEW WHICH SHOWS THE CONTAINMENT METHOD UTILIZED DOES NOT ALLOW PAINT AND OTHER DEBRIS TO FALL ONTO THE UPRR PROPERTY BELOW. ADDITIONALLY, ALL FALSEWORK AND/OR CONTAINMENT MEANS ARE LOCATED OUTSIDE THE "MINIMUM CONSTRUCTION CLEARANCE ENVELOPE" AT ALL TIMES

7. FOR SN 082-0015 AND SN 082-0001, CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL BEAMS, BEARINGS, AND OTHER STRUCTURAL STEEL SHALL BE CLEANED TO NEAR WHITE BLAST CLEANING - SSPC-SP10. THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF SYSTEM 1- OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1.

8. FOR SN 082-0015 AND 082-0001 A MINIMUM OF 2 AIR MONITORS PER STRUCTURE WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."

9. SSPC QP1 AND QP2 CERTIFICATION IS REQUIRED FOR THIS CONTRACT



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
(NORMAL TO RAILROAD)

THE EXISTING VERTICAL CLEARANCE OF THE UPRR TRACK UNDER SPAN A12 IS MINIMUM 23'-0" (SEE SHEET 16)

THE EXISTING CLEARANCE OF THE UPRR TRACK UNDER SPAN A20 IS MINIMUM 29'-0" (SEE SHEET 17)

COMMITMENTS

NONE

REV. - MS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	2
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

90% FED
10% STATE

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE BRIDGE 0047 S.N. 082-0141	CONSTR. CODE BRIDGE 0047 S.N. 082-0001	CONSTR. CODE BRIDGE 0047 S.N. 082-0015
67100100	MOBILIZATION	L SUM	1	0.34	0.33	0.33
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	96	16	40	40
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	1	0.5	0.25	0.25
X0327271	TRAFFIC CONTROL FOR ROAD CLOSURE	EACH	1		0.5	0.5
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1		1	
X7200200	WIDE LOAD SIGNING	L SUM	1	0.34	0.33	0.33
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1			1
Z0007101	CONTAINTMENT 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	
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	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	
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1			1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		

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REVISED - _____ | REVISED - _____ | REVISED - _____ | REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	3
		CONTRACT NO. 76P10		
		ILLINOIS FED. AID PROJECT		

MISSISSIPPI RIVER

MATCHLINE "A", SEE SHEET 5

I-55S/64W

I-55N/64E

MAIN ST

4TH ST

TRENDLEY AVE

RAMP S

RAMP T

RAMP O

WB C-D

ROADWAY A

EB C-D

ROADWAY D

RAMP N

RAMP M

RAMP P

IL ROUTE 3

MISSISSIPPI AVE/S 8TH ST

CONVERSE AVE

RAILROAD AVE

BRADY AVE

BOND AVE

MARKET AVE

MC CASLAND AVE

PIGGOTT AVE

S 8TH ST

S 10TH ST

S 11TH ST

S 12TH ST

S 13TH ST

TUDOR AVE

LEGEND:

SIGN

TYPE III BARRICADE

TRAFFIC FLOW

Ⓐ

DETOUR AHEAD

CAHOKIA

Ⓑ

DETOUR

CAHOKIA

Ⓒ

DETOUR

CAHOKIA

Ⓖ

END DETOUR

CAHOKIA

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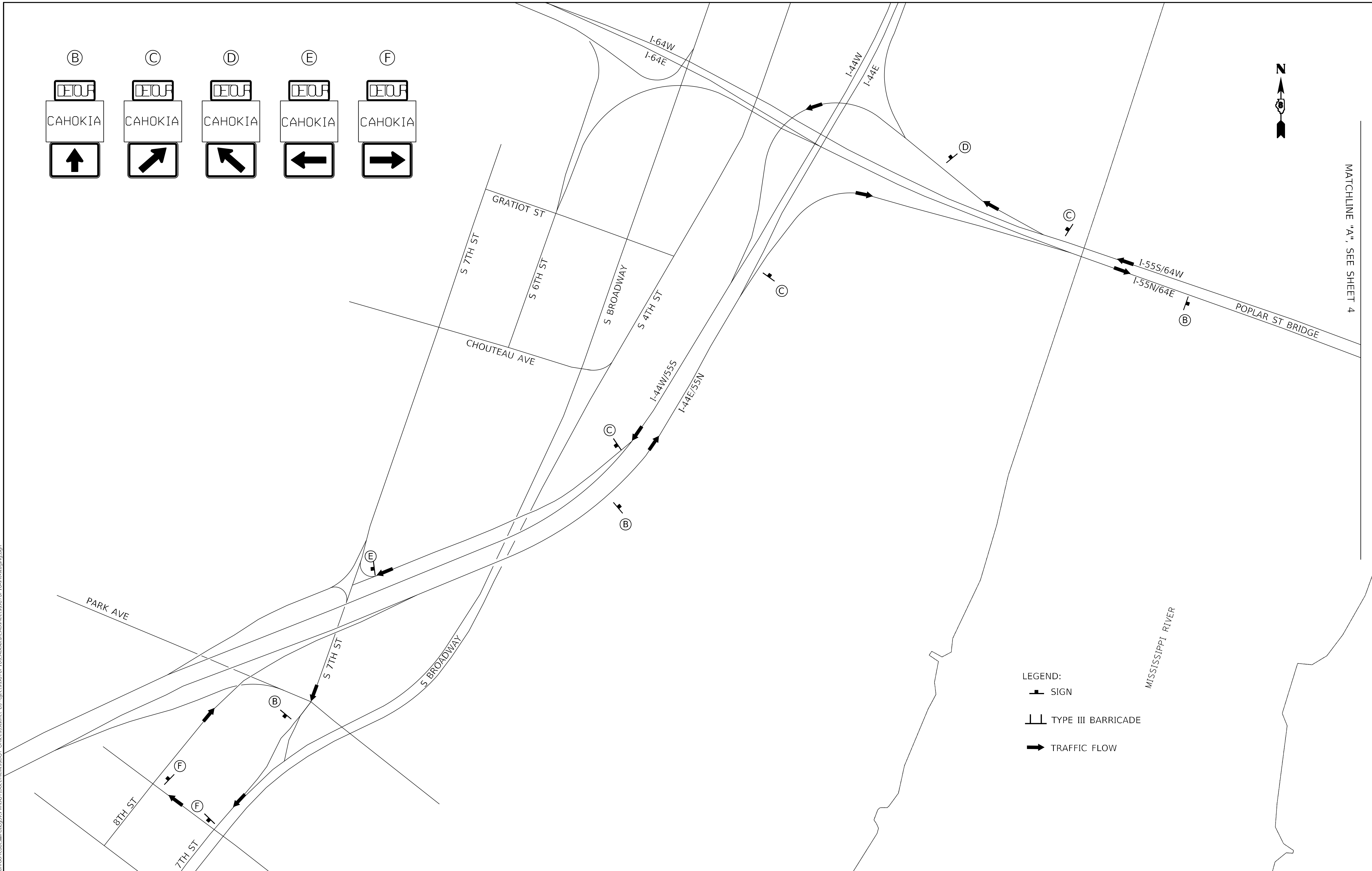
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
EXIT 3 DETOUR SIGNAGE DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	4
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		



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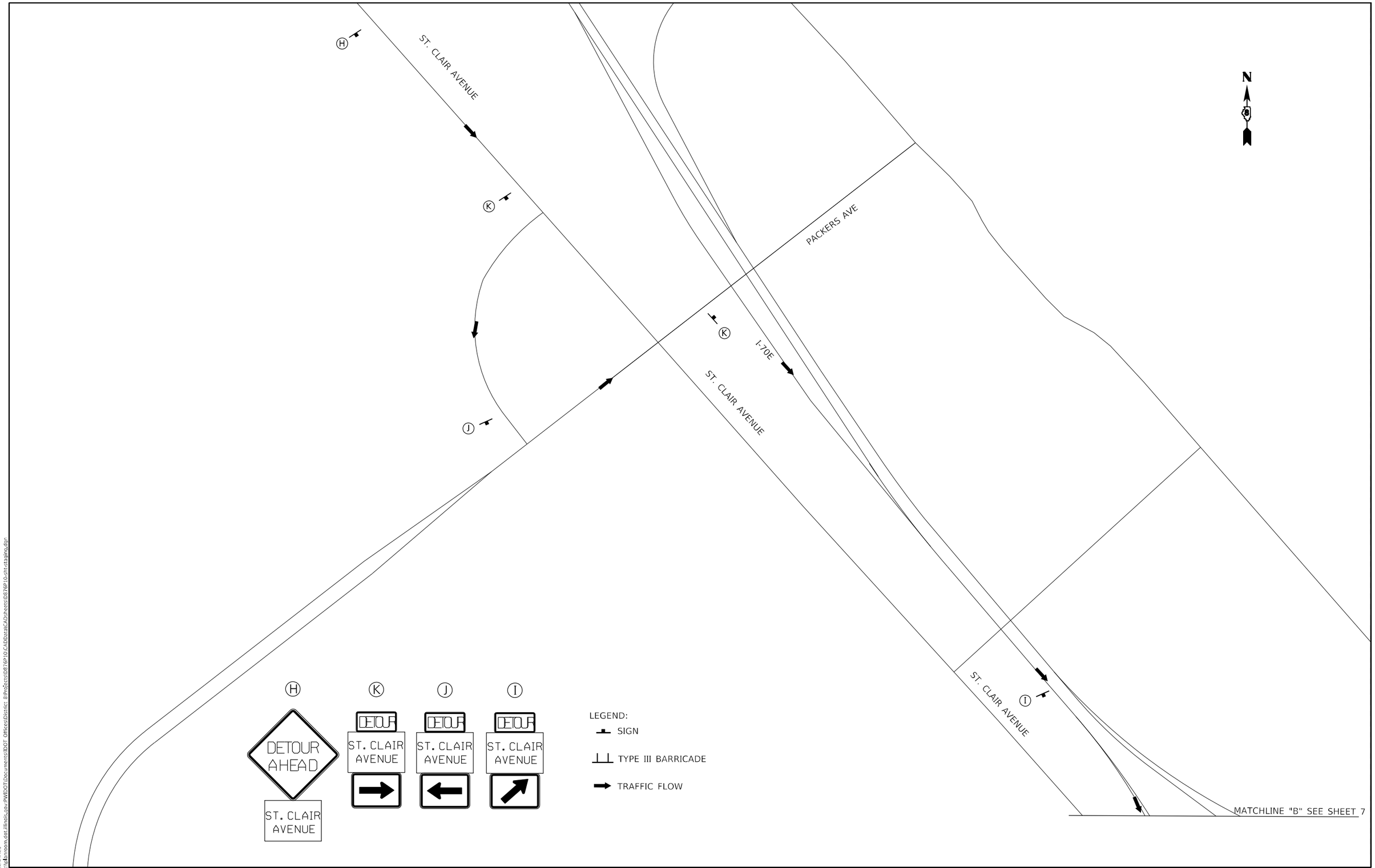
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
EXIT 3 DETOUR SIGNAGE DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	5
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		



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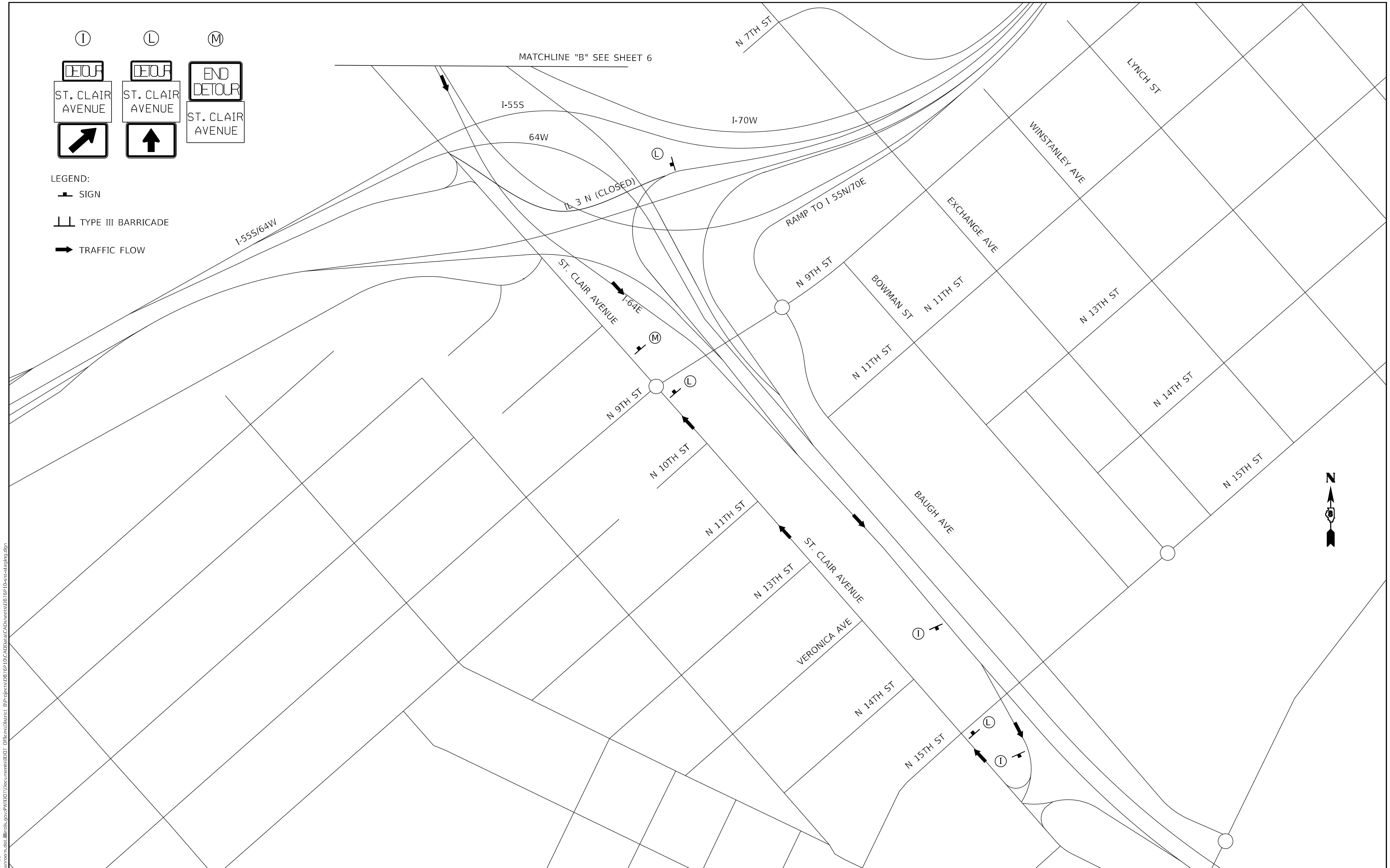
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
SOUTHBOUND ST CLAIR AVE DETOUR SIGNAGE DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	6
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			



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TRAFFIC CONTROL AND PROTECTION PLAN
SOUTHBOUND ST CLAIR AVE DETOUR SIGNAGE DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	7
		CONTRACT NO. 76P10		
		ILLINOIS FED. AID PROJECT		

MATCHLINE "C" SEE SHEET 9

MATCHLINE "D" SEE SHEET 10

N

Ⓗ

DETOUR AHEAD

ST. CLAIR AVENUE

Ⓚ

DETOUR

ST. CLAIR AVENUE

Ⓛ

DETOUR

ST. CLAIR AVENUE

ST. CLAIR AVENUE

N 7TH ST

I-55N/70E

COLLINSVILLE RD

LAKE AVE

NATALIE AVE

LYNCH ST

55S

I-70W

64W

IL 3 N (CLOSED)

WINSTANLEY AVE

RAMP TO I 55N/70E

EXCHANGE AVE

N 9TH ST

BOWMAN ST

N 11TH ST

N 13TH ST

N 14TH ST

N 15TH ST

N 10TH ST

LEGEND:

SIGN

TYPE III BARRICADE

TRAFFIC FLOW

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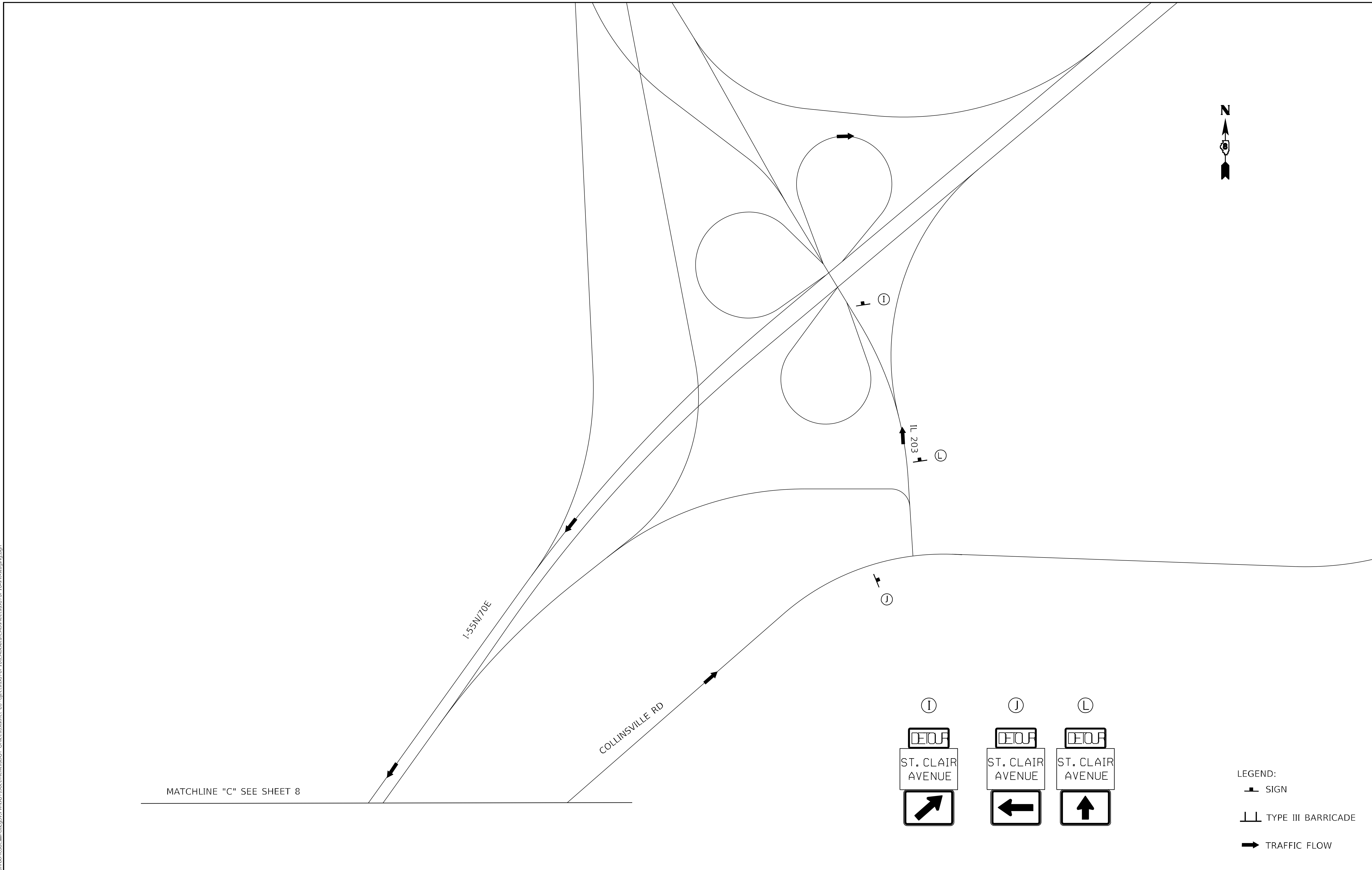
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
NORTHBOUND ST CLAIR AVE DETOUR SIGNAGE DETAIL

SCALE: NTS | SHEET 1 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	8
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			



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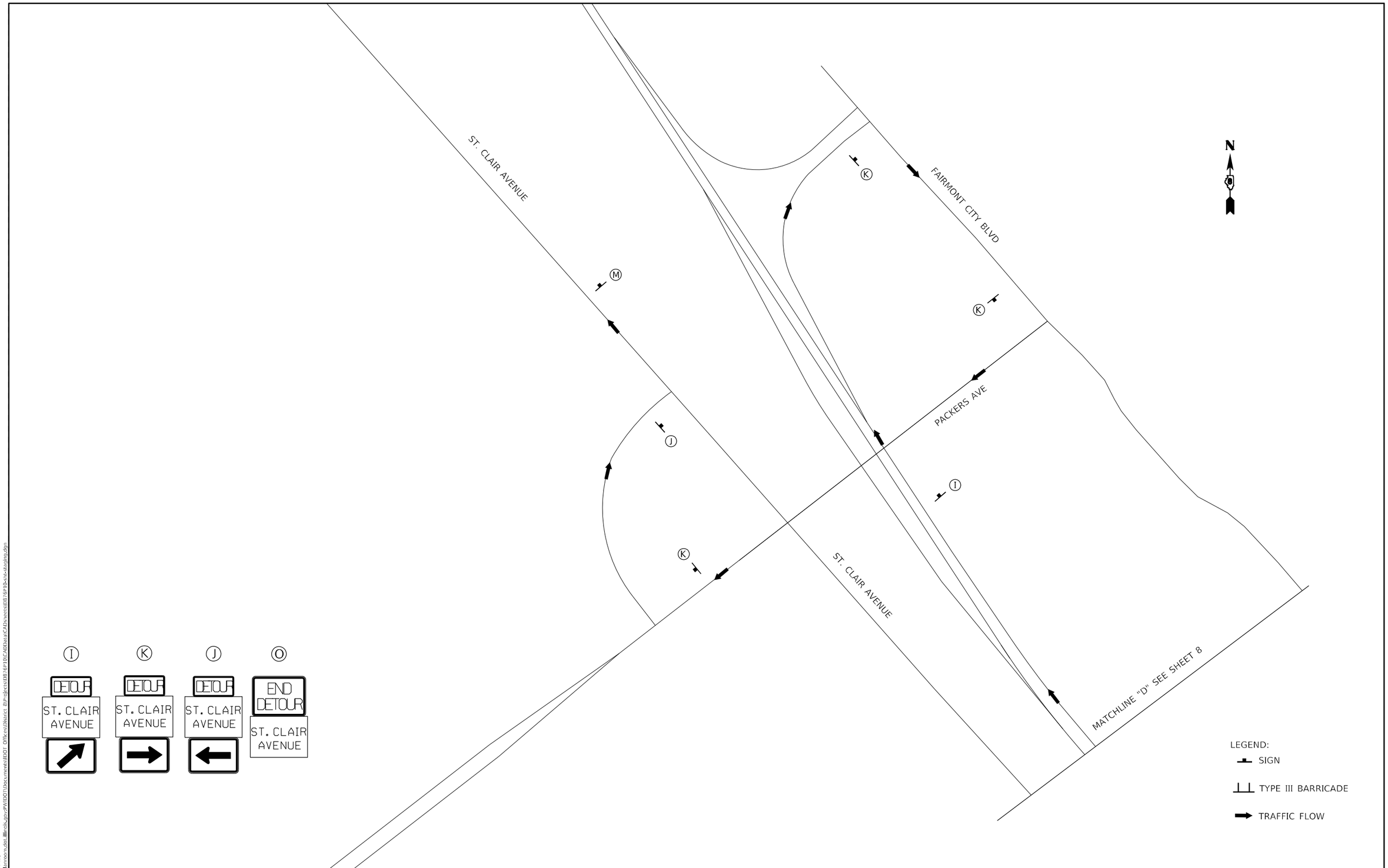
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
NORTHBOUND ST CLAIR AVE DETOUR SIGNAGE DETAIL

SCALE: NTS | SHEET 2 OF 3 SHEETS | STA. _______ TO STA. _______

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	9
		CONTRACT NO. 76P10		
		ILLINOIS	FED. AID PROJECT	



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
NORTHBOUND ST CLAIR AVE DETOUR SIGNAGE DETAIL

SCALE: NTS | SHEET 3 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	10
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

Ⓐ

W20-2
48" X 48"

SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

Ⓑ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-3

Ⓒ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-2(R)

Ⓓ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-2(L)

Ⓔ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-1(L)

Ⓕ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-1(R)

Ⓖ

M4-8A

SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

Ⓗ

W20-2
48" X 48"

SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

Ⓘ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-2(R)

Ⓙ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-1(L)

Ⓚ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-1(R)

Ⓛ

M4-8
SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

M6-3

Ⓜ

M4-8A

SPECIAL 42" X 30"
8" BLACK LETTERS
ON REFLECTIVE ORANGE
BACKGROUND

BACKGROUND: ORANGE (REFL)
LEGEND: BLACK (NON-REFL) E Mod 2K;
Table of letter and object lefts.

C	L	O	S	E	D
31.9	48.4	62.2	79.Ø	95.9	111.1

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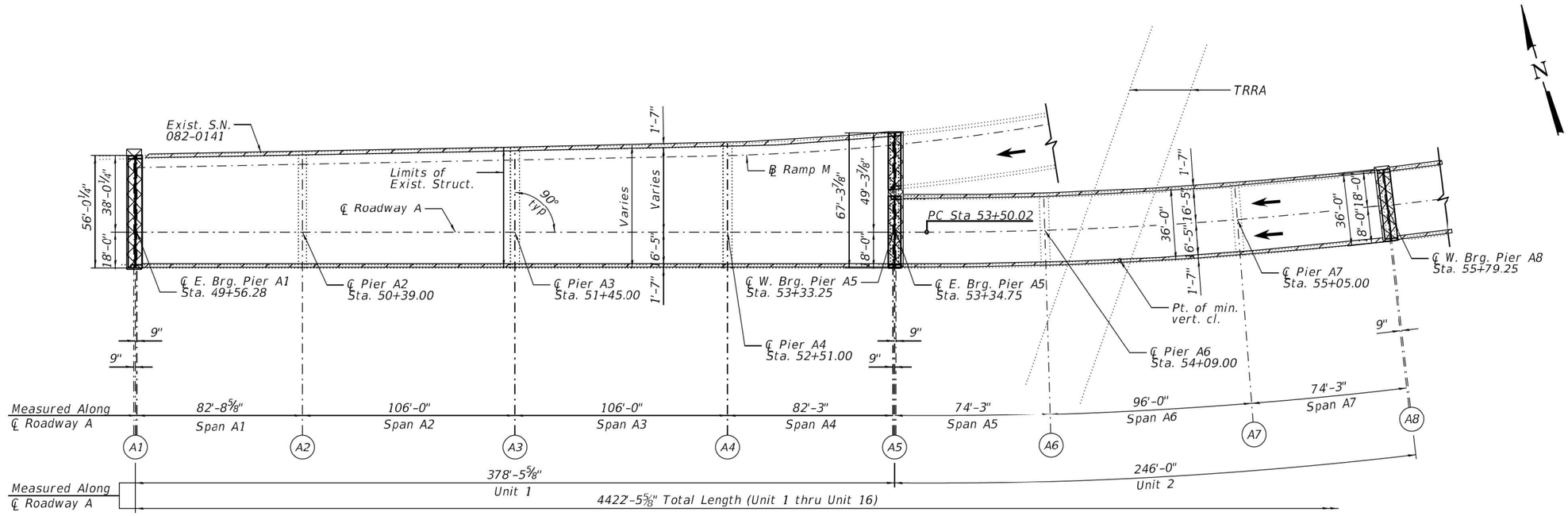
PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION PLAN
DETOUR SIGNAGE

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	11
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		



PLAN (SPANS A1 – A7)

NOTES:

1. A MINIMUM OF THREE AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

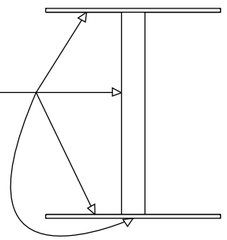
2. CLEANING AND PAINTING OF THE EXISTING STEEL AND BEARINGS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS SPECIFIED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING--SSPC-SP10.

3. THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING --SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1.

ALL BEAMS, BEARINGS, AND OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) ON THE SIDE OF THE DECK JOINT DELINEATED SHALL BE CLEANED AND PAINTED. (SP 10)

FASCIA BEAM CLEANING AND PAINTING AREAS, SSPC-SP 10

FOR THE DESIGNATED AREAS FROM PIER A1 TO PIER A21 ON SN 082-0141, CLEANING AND PAINTING SHALL INCLUDE THE EXTERIOR SURFACES AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA GIRDERS



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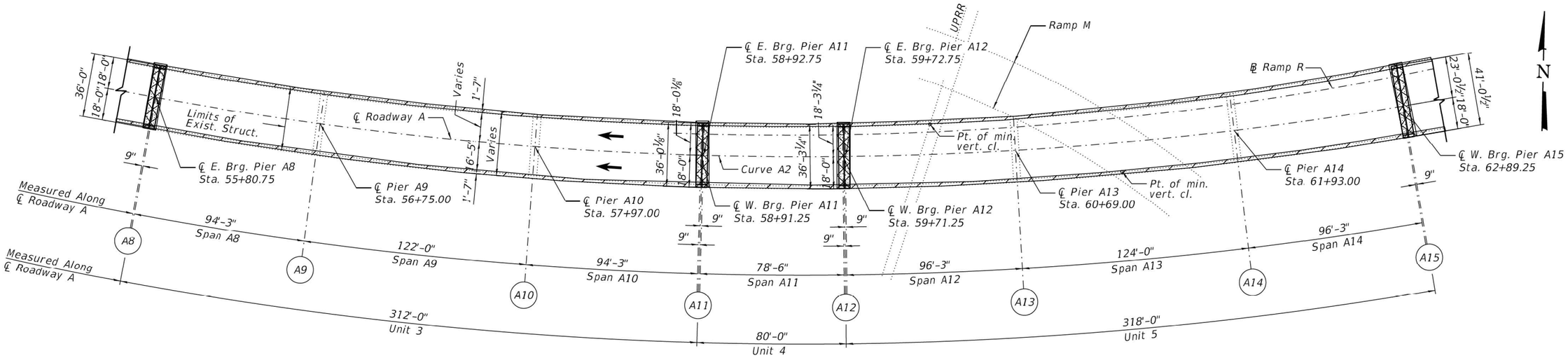
PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE PAINTING DETAIL SN 082–0141

SCALE: NTS | SHEET 1 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	12
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		



PLAN (SPANS A8 – A14)

NOTES:

1. A MINIMUM OF THREE AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

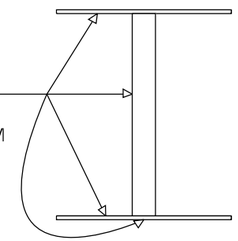
2. CLEANING AND PAINTING OF THE EXISTING STEEL AND BEARINGS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS SPECIFIED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING--SSPC-SP10.

3. THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING --SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1.

ALL BEAMS, BEARINGS, AND OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) ON THE SIDE OF THE DECK JOINT DELINEATED SHALL BE CLEANED AND PAINTED. (SP 10)

FASCIA BEAM CLEANING AND PAINTING AREAS, SSPC-SP 10

FOR THE DESIGNATED AREAS FROM PIER A1 TO PIER A21 ON SN 082-0141, CLEANING AND PAINTING SHALL INCLUDE THE EXTERIOR SURFACES AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA GIRDERS



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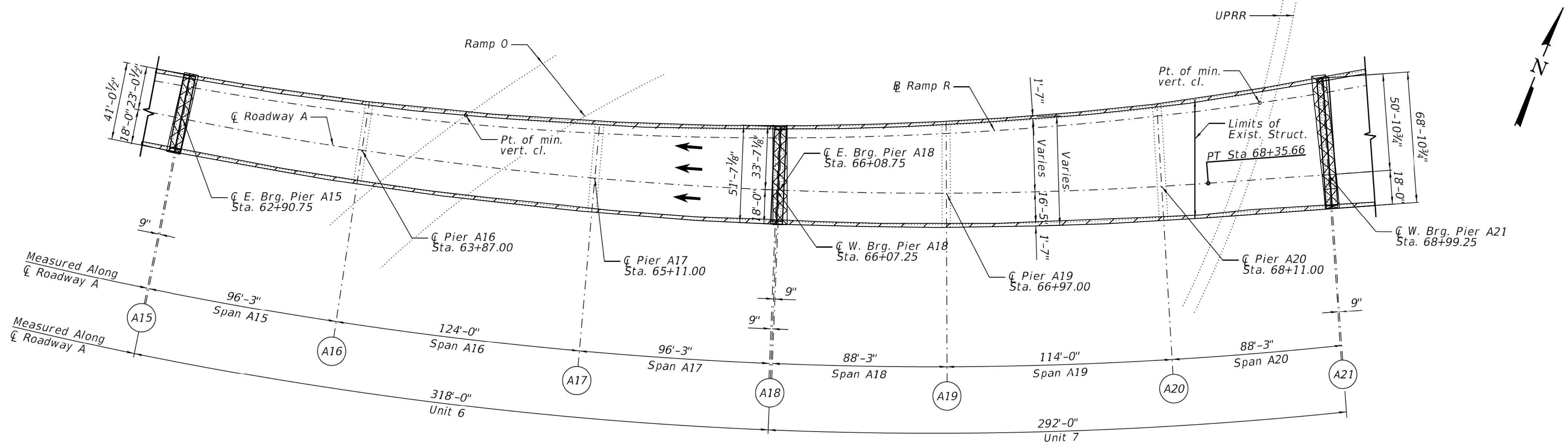
PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____	

BRIDGE PAINTING DETAIL SN 082–0141

SCALE: NTS | SHEET 2 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	13
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		



PLAN (SPANS A15 - A20)

NOTES:

1. A MINIMUM OF THREE AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

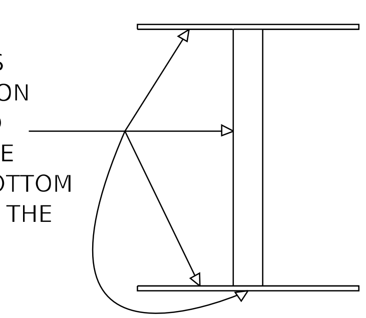
2. CLEANING AND PAINTING OF THE EXISTING STEEL AND BEARINGS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS SPECIFIED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING--SSPC-SP10.

3. THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING --SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1.

ALL BEAMS, BEARINGS, AND OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) ON THE SIDE OF THE DECK JOINT DELINEATED SHALL BE CLEANED AND PAINTED. (SP 10)

FASCIA BEAM CLEANING AND PAINTING AREAS, SSPC-SP 10

FOR THE DESIGNATED AREAS FROM PIER A1 TO PIER A21 ON SN 082-0141, CLEANING AND PAINTING SHALL INCLUDE THE EXTERIOR SURFACES AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA GIRDERS



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PLOT DATE = 3/22/2021	DATE -	REVISED -	

BRIDGE PAINTING DETAIL SN 082-0141

SCALE: NTS | SHEET 3 OF 3 SHEETS | STA. ______ TO STA. ______

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	14
		CONTRACT NO. 76P10		
		ILLINOIS FED. AID PROJECT		

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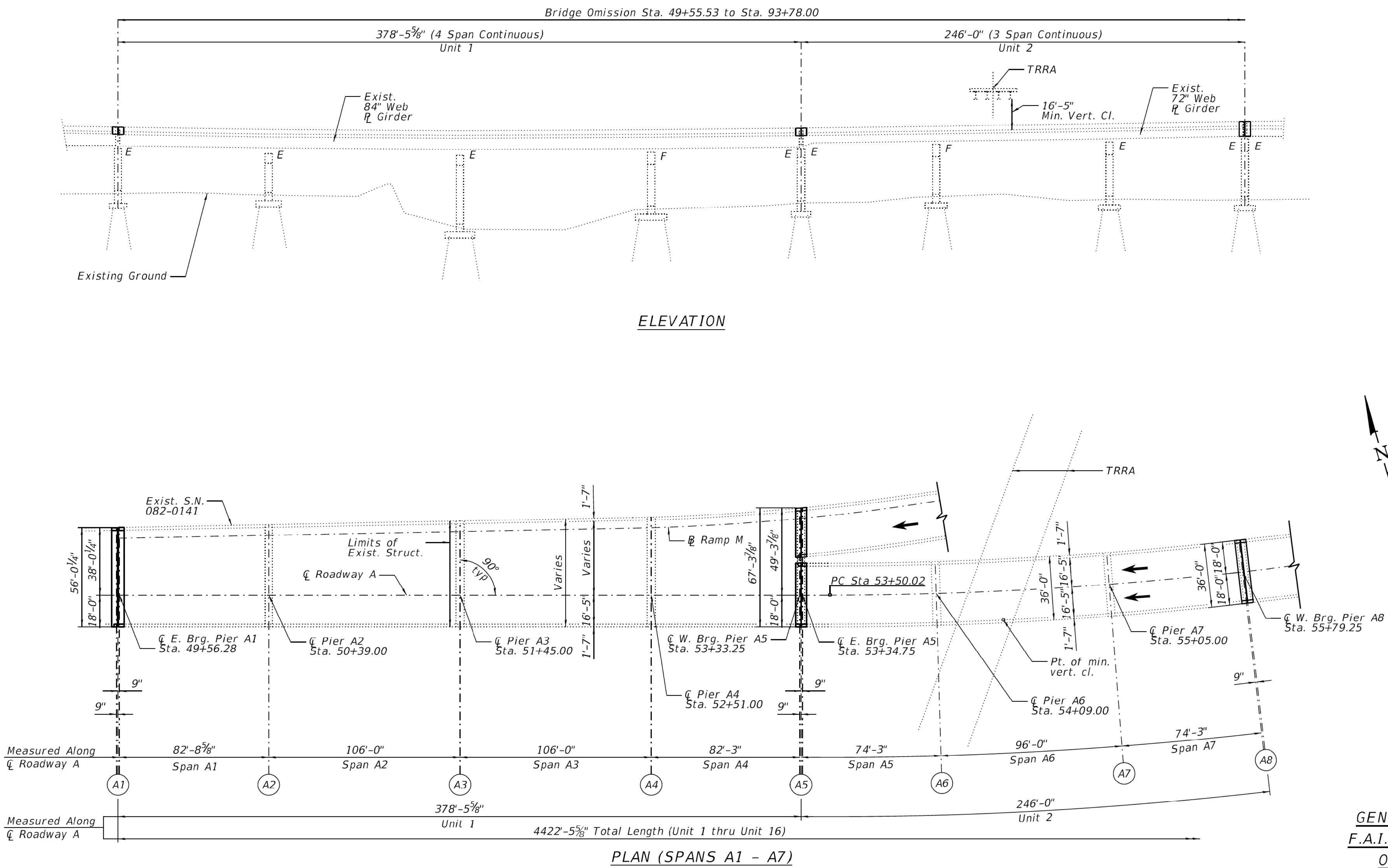

GENERAL PLAN & ELEVATION
F.A.I. 70 (I-55/I-64) WB CD "A"
OVER RR, I-55/64, IL 3
SEC. 82-3HVB-2R-(2,1)-I-2
ST. CLAIR COUNTY
STATION 49+55.53
STRUCTURE NO. 082-0141

FOR INFORMATION ONLY

PRINT DATE: 9/28/2018 11:8:06 AM Z:\5052 Poplar Street Complex\DGN\Bridge\final\Plotsheets\Roadway A\003_Rdwy_A_Plan_Elev1.dgn

WJE ENGINEERS ARCHITECTS MATERIAL SCIENTISTS
Wiss, Janney, Elstner Associates, Inc. 330 Pfingsten Road Northbrook, Illinois 60062 847.272.7400 tel | 847.291.9595 fax

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
SPANS A1 THRU A7
SHEET NO. 3 OF 90 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3HVB-2R-(2,1)-I-2	ST. CLAIR	238	77
		CONTRACT NO. 76945		
	ILLINOIS FED. AID PROJECT			

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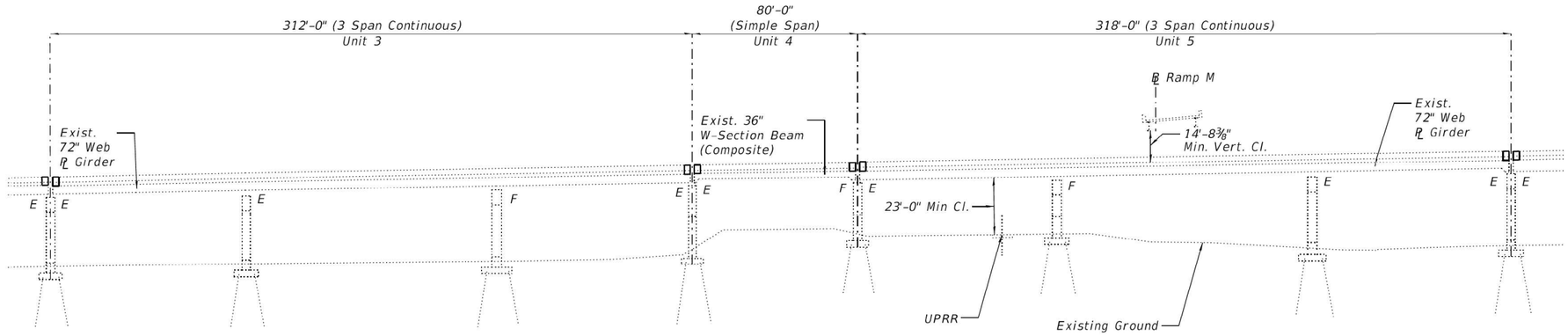
PLOT DATE = 3/22/2021	DATE -	REVISED -	

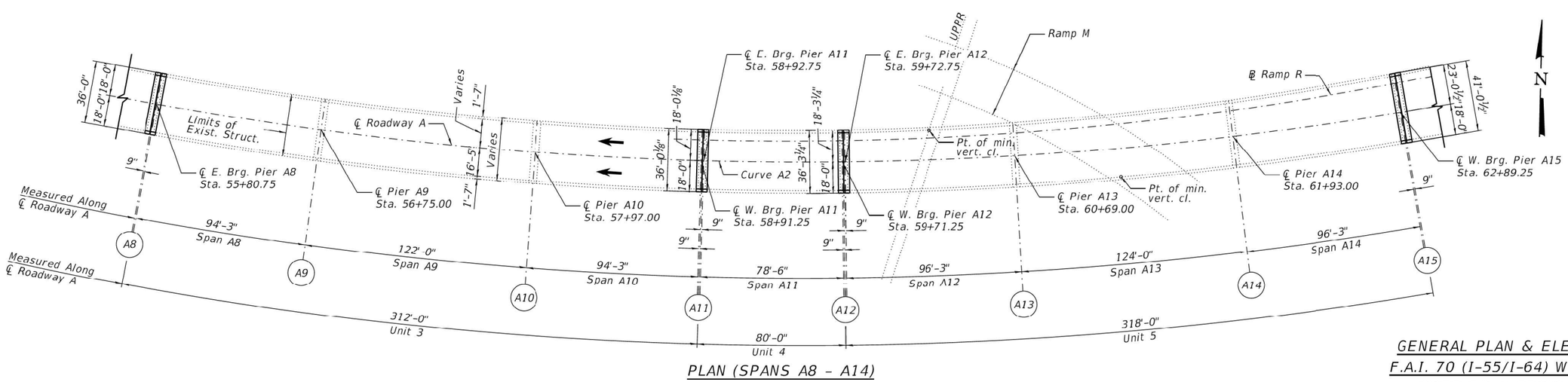
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141
SCALE: NTS SHEET 1 OF 25 SHEETS STA. ______ TO STA. ______

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	15
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			



ELEVATION



PLAN (SPANS A8 – A14)

FOR INFORMATION ONLY

GENERAL PLAN & ELEVATION
F.A.I. 70 (I-55/I-64) WB CD "A"
OVER RR, I-55/64, IL 3
SEC. 82-3HVB-2R-(2,1)-I-2
ST. CLAIR COUNTY
STATION 49+55.53
STRUCTURE NO. 082-0141

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WJE ENGINEERS ARCHITECTS MATERIAL SCIENTISTS Wiss, Janney, Elstner Associates, Inc. 330 Pfingsten Road Northbrook, Illinois 60062 847.272.7400 tel | 847.291.8595 fax	USER NAME = acb	DESIGNED - ACB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
SPANS A8 THRU A14
SHEET NO. 4 OF 90 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3HVB-2R-(2,1)-I-2	ST. CLAIR	238	78
		CONTRACT NO. 76945		
	ILLINOIS FED. AID PROJECT			

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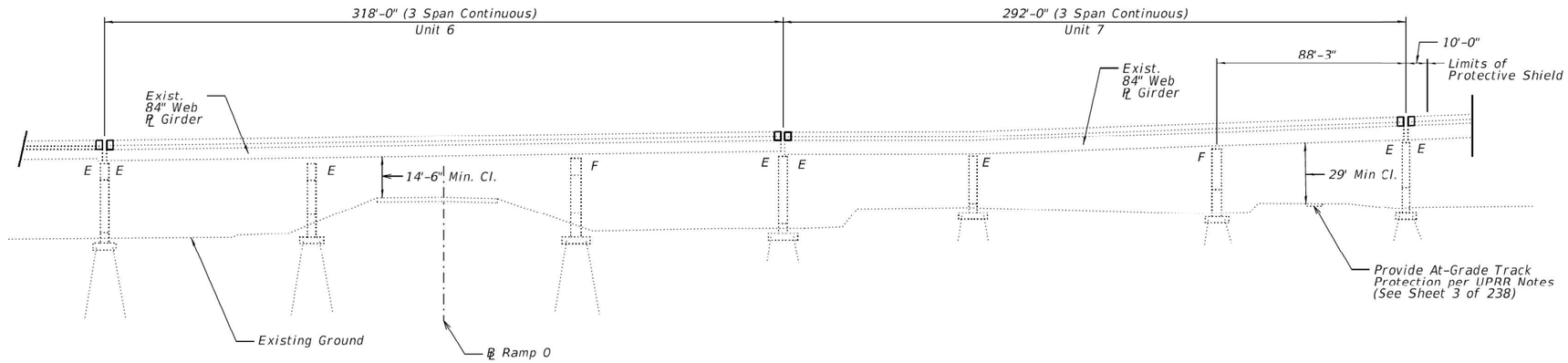
	PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____

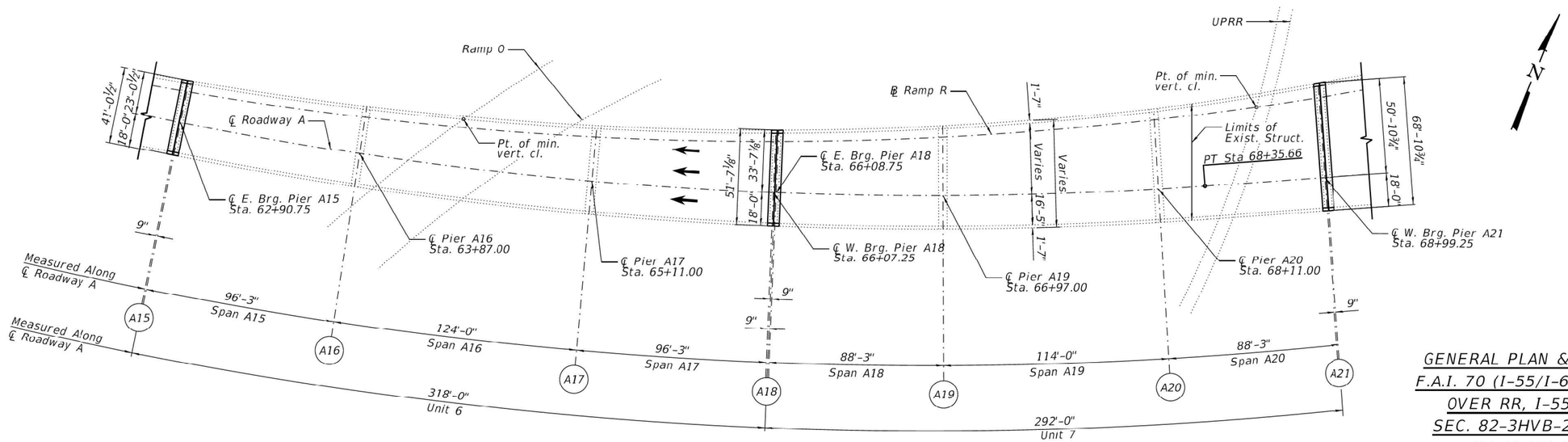
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141
SCALE: NTS | SHEET 2 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	16
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			



ELEVATION



PLAN (SPANS A15 - A20)

GENERAL PLAN & ELEVATION
F.A.I. 70 (I-55/I-64) WB CD "A"
OVER RR, I-55/64, IL 3
SEC. 82-3HVB-2R-(2,1)-I-2
ST. CLAIR COUNTY
STATION 49+55.53
STRUCTURE NO. 082-0141

FOR INFORMATION ONLY

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WJE ENGINEERS ARCHITECTS MATERIAL SCIENTISTS Wiss, Janney, Elstner Associates, Inc. 330 Pfingsten Road Northbrook, Illinois 60062 847.272.7400 tel | 847.291.9595 fax	USER NAME = acb	DESIGNED - ACB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
SPANS A15 THRU A20
SHEET NO. 5 OF 90 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3HVB-2R-(2,1)-I-2	ST. CLAIR	238	79
		CONTRACT NO. 76945		
	ILLINOIS FED. AID PROJECT			

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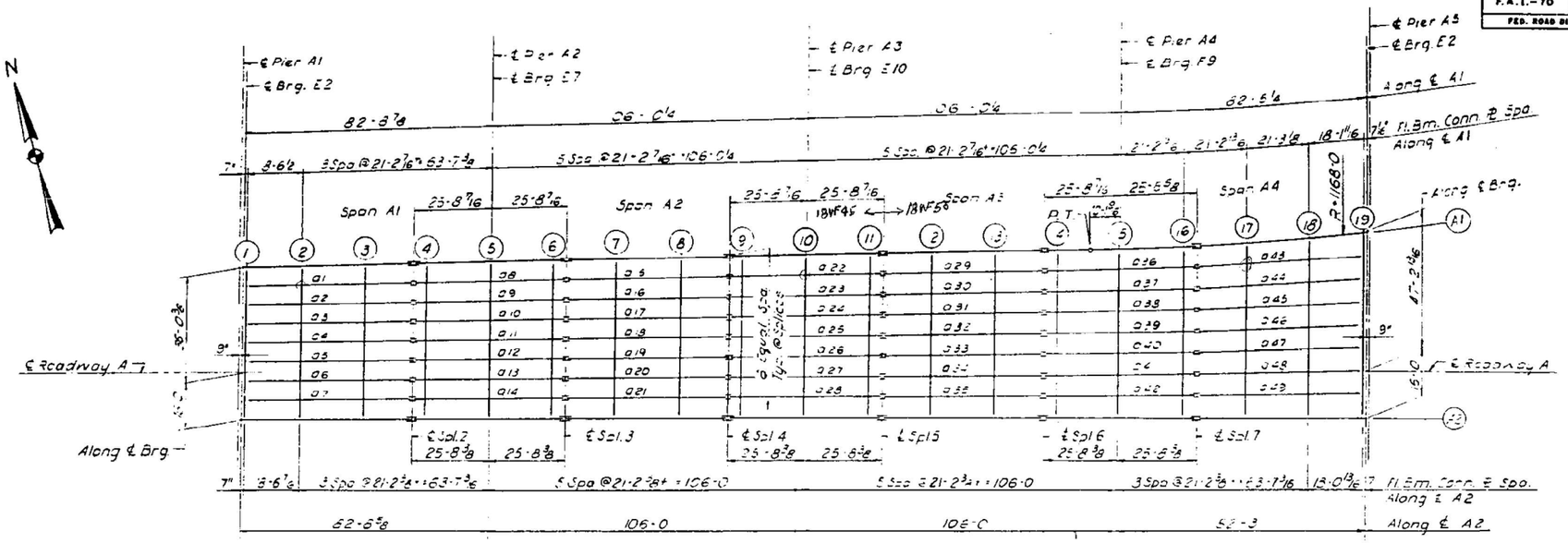
	PLOT DATE = 3/22/2021	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141
SCALE: NTS | SHEET 3 OF 25 SHEETS | STA. _____ | TO STA. _____

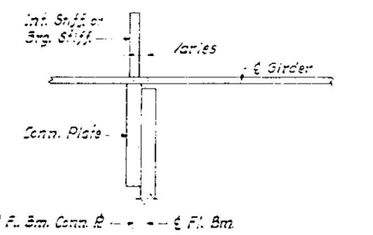
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	17
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFBE-1	ST. CLAIR	247	53
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



PLAN

SPANS A1 THRU A4



FLOOR BEAM LOCATION SKETCH

ELEVATION TOP OF GIRDER WEB

	GIR. A1	GIR. A2	DIFF.
CL. BRG.	449.976	450.788	.812
FLOOR BEAM 1	449.950	450.770	.811
FLOOR BEAM 2	449.367	450.205	.818
FLOOR BEAM 3	448.730	449.558	.828
SPLICE 2	448.218	449.048	.830
FLOOR BEAM 4	448.094	448.935	.841
FLOOR BEAM 5	447.507	448.345	.838
FLOOR BEAM 6	446.921	447.765	.844
SPLICE 3	446.796	447.642	.846
FLOOR BEAM 7	446.450	447.301	.851
FLOOR BEAM 8	446.012	446.869	.857
SPLICE 4	445.666	446.528	.862
FLOOR BEAM 9	445.576	446.468	.892
FLOOR BEAM 10	445.155	446.184	1.029

	GIR. A1	GIR. A2	DIFF.
FLOOR BEAM 11	444.734	445.899	1.165
SPLICE 5	444.644	445.839	1.195
FLOOR BEAM 12	444.397	445.706	1.309
FLOOR BEAM 13	444.084	445.537	1.453
SPLICE 6	443.837	445.403	1.566
FLOOR BEAM 14	443.774	445.423	1.649
FLOOR BEAM 15	443.477	445.516	2.039
FLOOR BEAM 16	443.181	445.610	2.429
SPLICE 7	443.118	445.629	2.511
FLOOR BEAM 17	442.970	445.847	2.877
FLOOR BEAM 18	442.781	446.124	3.343
FLOOR BEAM 19	442.621	446.360	3.739
CL. BRG.	442.815	446.568	3.753

FOR INFORMATION ONLY

Note:
Dimensions locating floor Beams are given to the floor Beam Conn. Plate see sketch

BILL OF MATERIAL		
*Structural Steel	Lbs.	710,840

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 17,590 Lbs.

DESIGNED BY R.M.R.
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS A1 THRU A4
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFBE-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 183 OF 526

0141

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PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 4 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	18
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

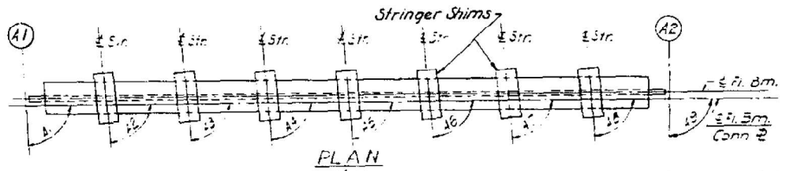
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVF&EH	ST. CLAIR	247	54
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

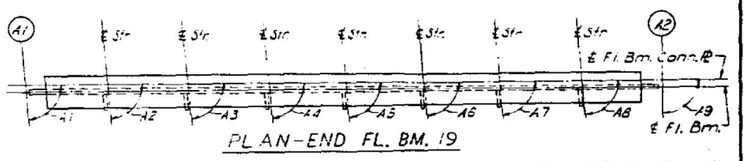
STR. #	L	S1	S2	S3	S4	B1	B2
1	56'-5 3/8"	18'-6 7/16"	○	21'-2 7/16"	16'-8 7/16"	88°59'51"	91°00.09"
2	56 5 5/16	18 6 7/16	|	21 2 7/16	16 8 7/16	89.08.26	90.51.34
3	56 5 5/16	18 6 7/16	|	21 2 7/16	16 8 7/16	89.17.02	90.42.58
4	56 5 1/4	18 6 7/16	|	21 2 7/16	16 8 7/16	89.25.37	90.34.23
5	56 5 1/4	18 6 7/16	|	21 2 7/16	16 8 3/8	89.34.13	90.25.47
6	56 5 1/4	18 6 7/16	|	21 2 3/8	16 8 3/8	89.42.49	90.17.11
7	56 5 1/4	18 6 7/16	○	21 2 3/8	16 8 3/8	89.51.24	90.08.36
8	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	88.59.51	91.00.09
9	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	89.08.26	90.51.34
10	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	89.17.02	90.42.58
11	51 4 13/16	4 6	21 2 7/16	21 2 7/16	4 6	89.25.37	90.34.23
12	51 4 13/16	4 6	21 2 7/16	21 2 7/16	4 6	89.34.13	90.25.47
13	51 4 13/16	4 6	21 2 3/8	21 2 3/8	4 6	89.42.49	90.17.11
14	51 4 13/16	4 6	21 2 3/8	21 2 3/8	4 6	89.51.24	90.08.36
15	54 7 5/16	16 8 7/16	21 2 7/16	○	16 8 7/16	88.59.51	91.00.09
16	54 7 1/4	16 8 7/16	21 2 7/16	|	16 8 7/16	89.08.26	90.51.34
17	54 7 1/4	16 8 7/16	21 2 7/16	|	16 8 7/16	89.17.02	90.42.58
18	54 7 1/4	16 8 7/16	21 2 7/16	|	16 8 7/16	89.25.37	90.34.23
19	54 7 3/16	16 8 3/8	21 2 7/16	|	16 8 3/8	89.34.13	90.25.47
20	54 7 3/16	16 8 3/8	21 2 3/8	|	16 8 3/8	89.42.49	90.17.11
21	54 7 3/16	16 8 3/8	21 2 3/8	○	16 8 3/8	89.51.24	90.08.36
22	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	88.59.51	91.00.09
23	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	89.08.26	90.51.34
24	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	89.17.02	90.42.58
25	51 4 13/16	4 6	21 2 7/16	21 2 7/16	4 6	89.25.37	90.34.23
26	51 4 13/16	4 6	21 2 7/16	21 2 7/16	4 6	89.34.13	90.25.47
27	51 4 13/16	4 6	21 2 3/8	21 2 3/8	4 6	89.42.49	90.17.11
28	51 4 13/16	4 6	21 2 3/8	21 2 3/8	4 6	89.51.24	90.08.36
29	54 7 5/16	16 8 7/16	21 2 7/16	○	16 8 7/16	88.59.51	91.00.09
30	54 7 1/4	16 8 7/16	21 2 7/16	|	16 8 7/16	89.08.26	90.51.34
31	54 7 1/4	16 8 7/16	21 2 7/16	|	16 8 7/16	89.17.02	90.42.58
32	54 7 1/4	16 8 7/16	21 2 7/16	|	16 8 7/16	89.25.37	90.34.23
33	54 7 3/16	16 8 3/8	21 2 7/16	|	16 8 3/8	89.34.13	90.25.47
34	54 7 3/16	16 8 3/8	21 2 3/8	|	16 8 3/8	89.42.49	90.17.11
35	54 7 3/16	16 8 3/8	21 2 3/8	○	16 8 3/8	89.51.24	90.08.36
36	51 5	4 6	21 2 1/2	21 2 1/2	4 6	88.27.39	91.32.21
37	51 4 15/16	4 6	21 2 7/16	21 2 7/16	4 6	88.40.50	91.19.10
38	51 4 15/16	4 6	21 2 7/16	21 2 7/16	4 6	88.54.02	91.05.58
39	51 4 7/8	4 6	21 2 7/16	21 2 7/16	4 6	89.07.13	90.52.47
40	51 4 13/16	4 6	21 2 7/16	21 2 7/16	4 6	89.20.25	90.39.35
41	51 4 13/16	4 6	21 2 7/16	21 2 7/16	4 6	89.33.37	90.26.23
42	51 4 13/16	4 6	21 2 3/8	21 2 3/8	4 6	89.46.48	90.13.12
43	56 1 1/16	16 8 13/16	21 2 15/16	○	18 1 1/4	86.15.08	93.44.52
44	56 11/16	16 8 11/16	21 2 13/16	|	18 1 1/8	86.47.11	93.12.49
45	56 5/16	16 8 5/8	21 2 11/16	|	18 1	87.19.16	92.40.44
46	56 1/16	16 8 9/16	21 2 9/16	|	18 15/16	87.51.23	92.08.37
47	55 11 7/8	16 8 1/2	21 2 1/2	|	18 7/8	88.23.31	91.36.29
48	55 11 11/16	16 8 7/16	21 2 7/16	|	18 13/16	88.55.40	91.04.20
49	55 11 5/8	16 8 7/16	21 2 7/16	○	18 13/16	89.27.50	90.32.10

FLOOR BEAM DIMENSIONS

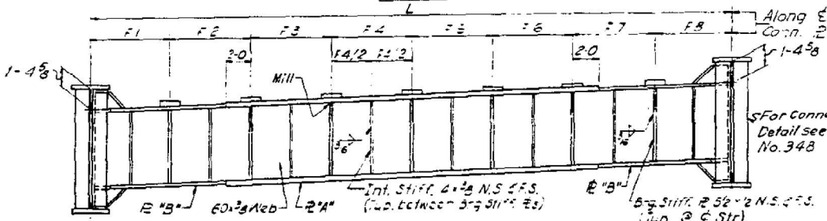
FL BM	L	F1	F2	F3	F4	F5	F6	F7	F8	A1	A2	A3	A4	A5	A6	A7	A8	A9	PLATE A T C B	PLATE B T C B
1	52'- 1/2"	6'-6 1/16"	6'-6 1/16"	6'-6 1/16"	6'-6 1/16"	6'-6 1/16"	6'-6 1/16"	6'-6 1/16"	6'-6 1/16"	88°51'15"	88°38'51"	89°08'26"	89°17'02"	89°25'37"	89°34'13"	89°42'48"	89°51'24"	90°00'00"	12 x 1/4	12 x 1/2
2	52 4 15/16	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1/8	12 x 1
3	52 10 1/16	6 7 1/4	6 7 1/4	6 7 1/4	6 7 1/4	6 7 1/4	6 7 1/4	6 7 1/4	6 7 1/4	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1/8	12 x 1
4	53 3 1/8	6 7 7/8	6 7 7/8	6 7 7/8	6 7 7/8	6 7 7/8	6 7 7/8	6 7 7/8	6 7 7/8	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/4	12 x 1 1/8
5	53 8 3/16	6 8 1/2	6 8 1/2	6 8 1/2	6 8 1/2	6 8 1/2	6 8 1/2	6 8 1/2	6 8 1/2	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/4	12 x 1 1/8
6	54 1 5/16	6 9 3/16	6 9 3/16	6 9 3/16	6 9 3/16	6 9 3/16	6 9 3/16	6 9 3/16	6 9 3/16	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/4	12 x 1 1/8
7	54 6 3/8	6 9 13/16	6 9 13/16	6 9 13/16	6 9 13/16	6 9 13/16	6 9 13/16	6 9 13/16	6 9 13/16	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/4	12 x 1 1/8
8	54 11 1/2	6 10 7/16	6 10 7/16	6 10 7/16	6 10 7/16	6 10 7/16	6 10 7/16	6 10 7/16	6 10 7/16	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/4	12 x 1 1/8
9	55 4 9/16	6 11 1/16	6 11 1/16	6 11 1/16	6 11 1/16	6 11 1/16	6 11 1/16	6 11 1/16	6 11 1/16	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/8	12 x 1 1/4
10	55 9 5/8	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	6 11 11/16	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/8	12 x 1 1/4
11	56 2 3/4	7 5/16	7 5/16	7 5/16	7 5/16	7 5/16	7 5/16	7 5/16	7 5/16	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 1 1/8	12 x 1 1/4
12	56 7 13/16	7 1	7 1	7 1	7 1	7 1	7 1	7 1	7 1	88.51.15	88.59.51	89.08.26	89.17.02	89.25.37	89.34.13	89.42.49	89.51.24	90.00.00	12 x 2	12 x 1 3/8
13	57 15/16	7 1 5/8	7 1 5/8	7 1 5/8	7 1 5/8	7 1 5/8	7 1 5/8	7 1 5/8	7 1 5/8	88.51.15	88.27.39	88.40.50	88.54.02	89.07.13	89.20.25	89.33.37	89.46.48	90.00.00	12 x 2	12 x 1 3/8
14	57 6	7 1 3/4	7 2 5/16	7 2 5/16	7 2 5/16	7 2 5/16	7 2 5/16	7 2 5/16	7 2 5/16	88.51.15	88.27.39	88.40.50	88.54.02	89.07.13	89.20.25	89.33.37	89.46.48	90.00.00	12 x 2	12 x 1 3/8
15	57 11 5/8	7 1/2	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	88.21.26	88.27.39	88.40.50	88.54.02	89.07.13	89.20.25	89.33.37	89.46.48	90.00.00	12 x 2	12 x 1 3/8
16	58 9 1/4	7 3 5/16	7 4 1/4	7 4 1/4	7 4 1/4	7 4 1/4	7 4 1/4	7 4 1/4	7 4 1/4	87.18.59	88.27.39	88.40.50	88.54.02	89.07.13	89.20.25	89.33.37	89.46.48	90.00.00	12 x 2	12 x 1 3/8
17	59 11 1/2	7 2 15/16	7 6 3/8	7 6 3/8	7 6 3/8	7 6 3/8	7 6 3/8	7 6 3/8	7 6 3/8	86.16.30	86.15.08	86.47.11	87.19.16	87.51.23	88.23.31	88.55.40	89.27.50	90.00.00	12 x 2 1/8	12 x 1 1/2
18	61 6 3/8	7 5 3/16	7 8 3/4	7 8 3/4	7 8 3/4	7 8 3/4	7 8 3/4	7 8 3/4	7 8 3/4	85.13.55	86.15.08	86.47.11	87.19.16	87.51.23	88.23.31	88.55.40	89.27.50	90.00.00	12 x 2 1/8	12 x 1 1/2
19	63 2 1/8	7 10 3/4	7 10 3/4	7 10 3/4	7 10 3/4	7 10 3/4	7 10 3/4	7 10 3/4	7 10 3/4	84.20.32	86.15.08	86.47.11	87.19.16	87.51.23	88.23.31	88.55.40	89.27.50	90.00.00	12 x 1 3/4	12 x 1 1/8



PLAN

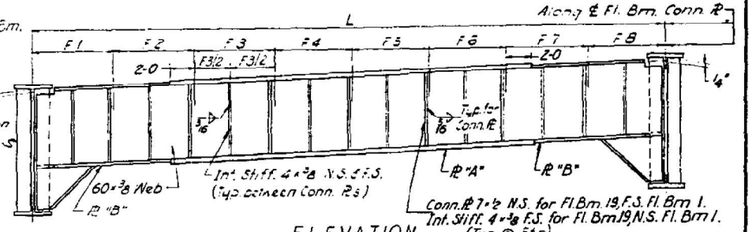


PLAN-END FL. BM. 19

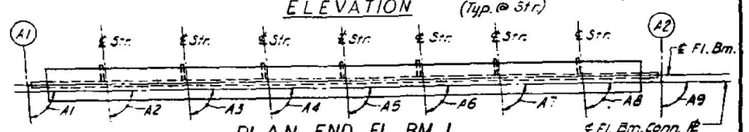


ELEVATION

INTERIOR FLOOR BEAM 2 THRU 18

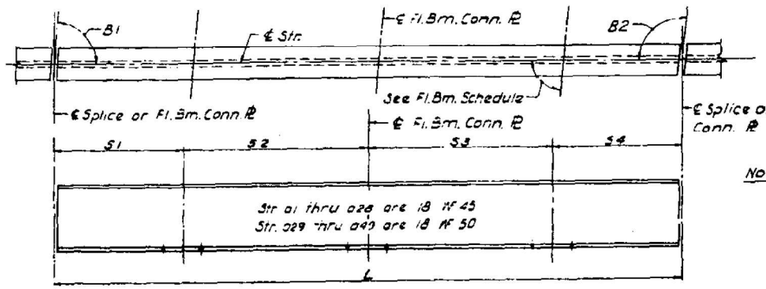


ELEVATION



PLAN END FL. BM. 1

END FLOOR BEAM 1 AND 19



Notes:

Length L of Stringers and Fl. Bms is correct as given in the table, except the increment lengths are given to the nearest "16".
All dimensions are in the horizontal plane.
For Intermediate Stiffener, Brg. Stiffener and Connection Plate Details see Sh. No. 348

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM SCHEDULE
SPANS A1 THRU A4
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF&EH
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
SHEET 54 OF 54 SHEETS

DESIGNED BY A.T. & A.J.C.
DRAWN BY I.M.
CHECKED BY A.A.
APPROVED BY K.A.

FOR INFORMATION ONLY TYPICAL STRINGER

0141

MODEL: $MODELNAMES
FILE NAME: c:\oa\bannoom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\D876P10\CAD\Data\CAD\sheets\D876P10-SH-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 5 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	19
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.- 70	82-3HVFBE-1	ST. CLAIR	247	33
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 2 THRU 3	T1	T2	T3	T4
STR. 1 THRU 7	1 1/8	1	1/2	3/8

FLOOR BEAM 4 THRU 6	T1	T2	T3	T4
STR. 8 THRU 14	1 1/8	1	1/2	3/8

FLOOR BEAM 7 THRU 8	T1	T2	T3	T4
STR. 15 THRU 21	1 1/16	15/16	9/16	7/16

FLOOR BEAM 9	T1	T2	T3	T4
STR.				
22	1	7/8	5/8	1/2
23	1	7/8	5/8	1/2
24	1	7/8	5/8	1/2
25	1	7/8	5/8	1/2
26	1	7/8	5/8	1/2
27	1	7/8	5/8	1/2
28	15/16	7/8	5/8	9/16

FLOOR BEAM 10	T1	T2	T3	T4
STR.				
22	1	7/8	5/8	1/2
23	1	7/8	5/8	1/2
24	1	7/8	5/8	1/2
25	1	7/8	5/8	1/2
26	1	7/8	5/8	1/2
27	1	7/8	5/8	1/2
28	1	13/16	11/16	1/2

FLOOR BEAM 11	T1	T2	T3	T4
STR.				
22	1 1/16	7/8	5/8	7/16
23	1	7/8	5/8	1/2
24	1	7/8	5/8	1/2
25	1	7/8	5/8	1/2
26	1	7/8	5/8	1/2
27	1	13/16	11/16	1/2
28	1	13/16	11/16	1/2

FLOOR BEAM 12	T1	T2	T3	T4
STR.				
29	1	13/16	11/16	1/2
30	1	13/16	11/16	1/2
31	1	13/16	11/16	1/2
32	15/16	13/16	11/16	9/16
33	15/16	3/4	3/4	9/16
34	15/16	3/4	3/4	9/16
35	15/16	3/4	3/4	9/16

FLOOR BEAM 13	T1	T2	T3	T4
STR.				
29	1	13/16	11/16	1/2
30	1	13/16	11/16	1/2
31	1	13/16	11/16	1/2
32	1	3/4	3/4	1/2
33	15/16	3/4	3/4	9/16
34	15/16	3/4	3/4	9/16
35	15/16	3/4	3/4	9/16

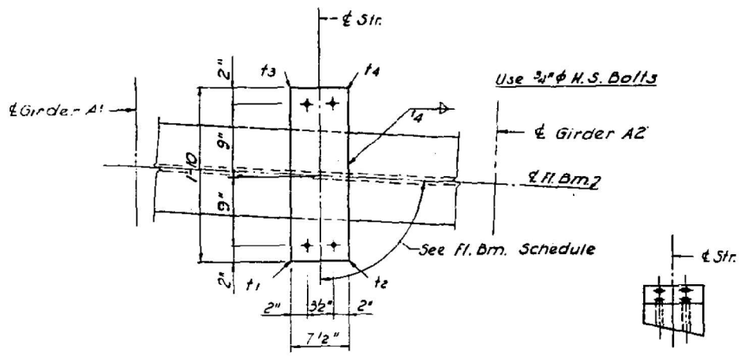
FLOOR BEAM 14	T1	T2	T3	T4
STR.				
36	1	3/4	3/4	1/2
37	15/16	3/4	3/4	9/16
38	15/16	3/4	3/4	9/16
39	15/16	11/16	13/16	9/16
40	7/8	11/16	13/16	5/8
41	7/8	5/8	7/8	5/8
42	13/16	5/8	7/8	11/16

FLOOR BEAM 15	T1	T2	T3	T4
STR.				
36	1	3/4	3/4	1/2
37	1	3/4	3/4	1/2
38	15/16	11/16	13/16	9/16
39	15/16	11/16	13/16	9/16
40	15/16	5/8	7/8	9/16
41	7/8	5/8	7/8	5/8
42	7/8	5/8	7/8	5/8

FLOOR BEAM 16	T1	T2	T3	T4
STR.				
36	1 1/16	3/4	3/4	7/16
37	1	11/16	13/16	1/2
38	1	11/16	13/16	1/2
39	15/16	5/8	7/8	9/16
40	15/16	5/8	7/8	9/16
41	15/16	5/8	7/8	9/16
42	7/8	9/16	15/16	5/8

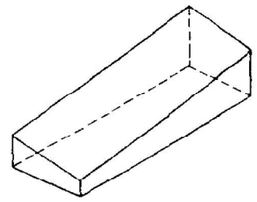
FLOOR BEAM 17	T1	T2	T3	T4
STR.				
43	1	5/8	7/8	1/2
44	15/16	5/8	7/8	9/16
45	15/16	9/16	15/16	9/16
46	15/16	9/16	15/16	9/16
47	7/8	1/2	1	5/8
48	7/8	1/2	1	5/8
49	13/16	7/16	1 1/16	11/16

FLOOR BEAM 18	T1	T2	T3	T4
STR.				
43	1	5/8	7/8	1/2
44	1	9/16	15/16	1/2
45	15/16	9/16	15/16	9/16
46	15/16	1/2	1	9/16
47	7/8	1/2	1	5/8
48	7/8	7/16	1 1/16	5/8
49	13/16	7/16	1 1/16	11/16

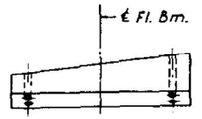


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

FOR INFORMATION ONLY

DESIGNED BY A.J.C.
DRAWN BY I.M.
CHECKED BY A.S.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

STRINGER SHIMS
SPANS A1 THRU A4
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I.RT.70 ST. CLAIR CO. SECTION 82-3HVFBE-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 185 OF 526

0141

MODEL: SMODELNAMES
FILE NAME: pw:\\ghanroom.dot.illinois.edu:PWIDOT_Documents:IDOT Offices:District 8:Projects:D8T6P10:CADData:CADSheets:D8T6P10-Strl-Typical.cgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

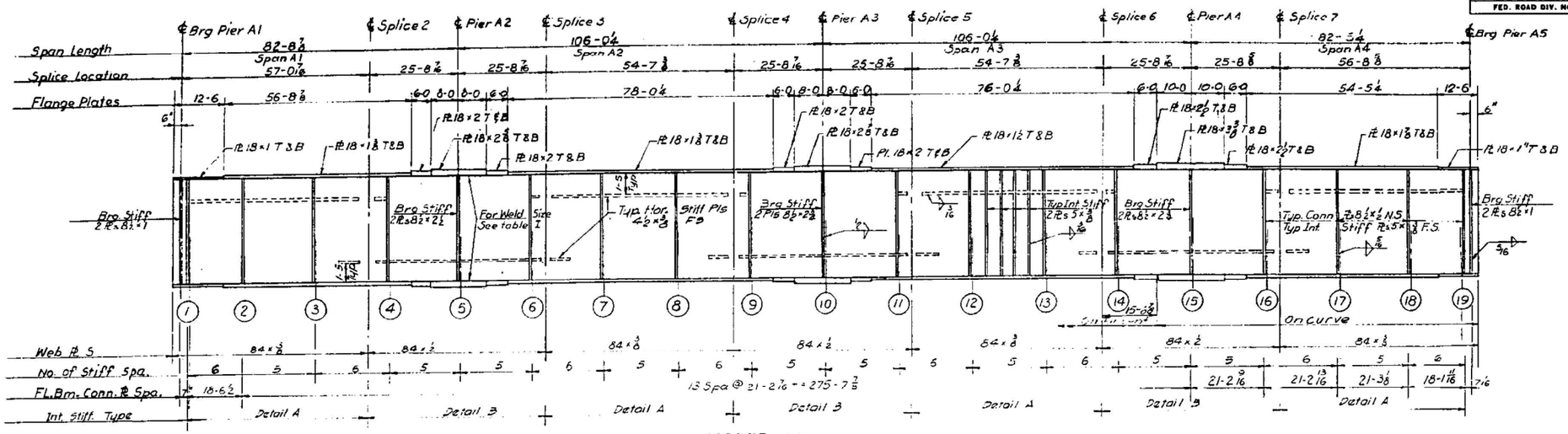
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

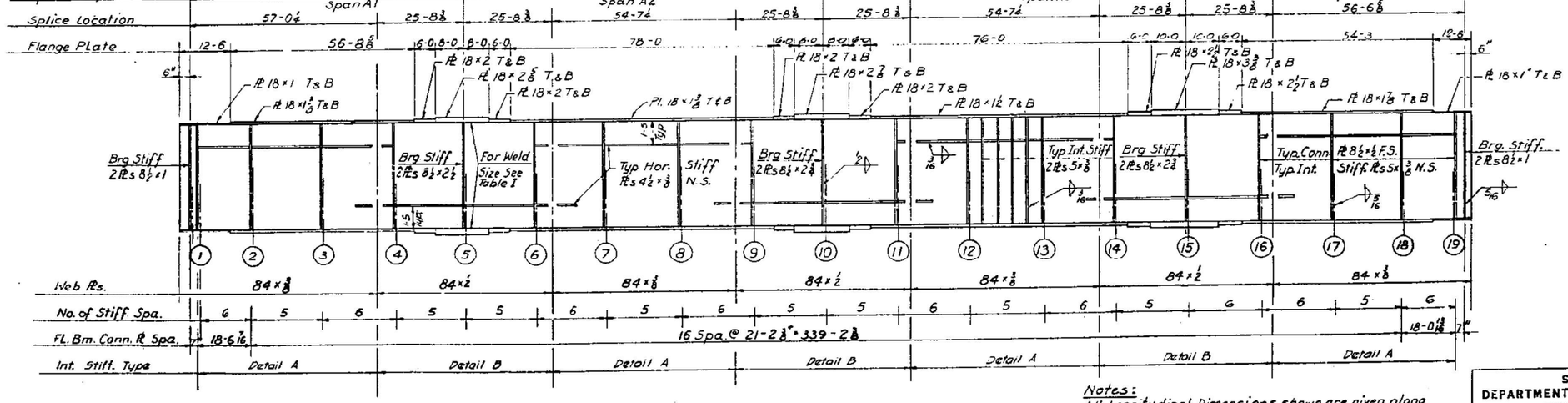
SCALE: NTS | SHEET 6 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	20
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	56
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
SPANS A1 thru A4



GIRDER A2
SPANS A1 thru A4

Notes:
All Longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 183
All Bearing Stiffeners and Connection Plates to be Vertical.
For Splice, Stiffeners, Connection Plate Details and Table I see Sheet No. 348, 349, 350

FOR INFORMATION ONLY

DESIGNED BY A.T.
DRAWN BY D.T.
CHECKED BY E.L.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS A1 AND A2
SPANS A1 THRU A4
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 126 OF 525

0141

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FILE NAME: ow:\\Bdmroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D876P10\CADData\CADSheets\D876P10-SH-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

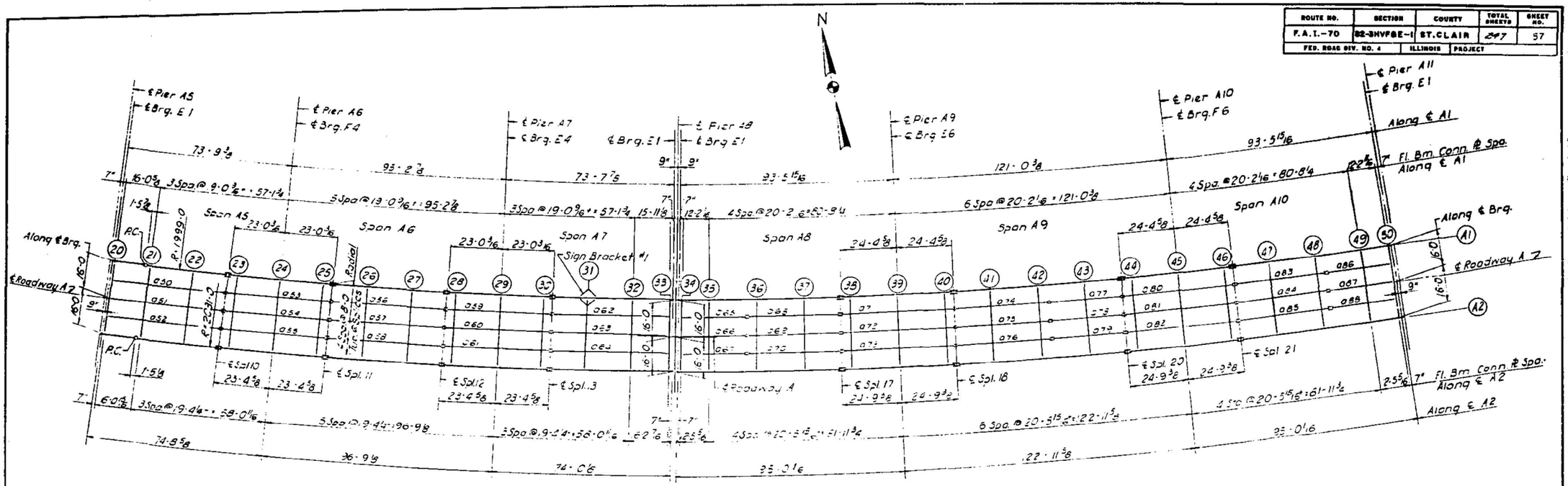
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 7 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	21
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFBE-1	ST. CLAIR	247	57
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS A5 THRU A10

ELEVATION TOP OF GIRDER WEB

	GIR. A1	GIR. A2	DIFF.
CL. BRG.	444.714	446.385	1.671
FLOOR BEAM 20	444.714	446.392	1.678
FLOOR BEAM 21	444.687	446.579	1.892
FLOOR BEAM 22	444.655	446.803	2.148
SPLICE 10	444.629	446.981	2.352
FLOOR BEAM 23	444.640	447.010	2.370
FLOOR BEAM 24	444.693	447.149	2.456
FLOOR BEAM 25	444.746	447.288	2.542
SPLICE 11	444.757	447.317	2.560
FLOOR BEAM 26	444.833	447.393	2.560
FLOOR BEAM 27	444.929	447.489	2.560
SPLICE 12	445.005	447.565	2.560
FLOOR BEAM 28	445.025	447.585	2.560
FLOOR BEAM 29	445.121	447.681	2.560
FLOOR BEAM 30	445.217	447.777	2.560
SPLICE 13	445.237	447.797	2.560
FLOOR BEAM 31	445.313	447.873	2.560
FLOOR BEAM 32	445.409	447.969	2.560
FLOOR BEAM 33	445.490	448.050	2.560
CL. BRG.	445.498	448.058	2.560

	GIR. A1	GIR. A2	DIFF.
CL. BRG.	445.500	448.060	2.560
FLOOR BEAM 34	445.503	448.063	2.560
FLOOR BEAM 35	445.565	448.125	2.560
FLOOR BEAM 36	445.666	448.226	2.560
FLOOR BEAM 37	445.768	448.328	2.560
SPLICE 17	445.848	448.408	2.560
FLOOR BEAM 38	445.870	448.430	2.560
FLOOR BEAM 39	445.971	448.531	2.560
FLOOR BEAM 40	446.073	448.633	2.560
SPLICE 18	446.094	448.654	2.560
FLOOR BEAM 41	446.175	448.735	2.560
FLOOR BEAM 42	446.276	448.836	2.560
FLOOR BEAM 43	446.378	448.938	2.560
SPLICE 20	446.458	449.018	2.560
FLOOR BEAM 44	446.480	449.040	2.560
FLOOR BEAM 45	446.581	449.141	2.560
FLOOR BEAM 46	446.683	449.243	2.560
SPLICE 21	446.704	449.264	2.560
FLOOR BEAM 47	446.785	449.345	2.560
FLOOR BEAM 48	446.886	449.446	2.560
FLOOR BEAM 49	446.988	449.548	2.560
FLOOR BEAM 50	447.050	449.610	2.560
CL. BRG.	447.052	449.612	2.560

Note:
Dimensions locating floor Beams are given to the floor Beam Conn. Plate see sketch Sheet No. 183 For Sign Bracket Detail see Sh. No. 360

BILL OF MATERIAL		
*Structural Steel	Lbs.	659790

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 14,720 Lbs.

FOR INFORMATION ONLY

DESIGNED BY R.J.R.
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS A5 THRU A10
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFBE-1
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
SHEET 187 OF 526

0141

MODEL: \$MODELNAME\$
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USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 8 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	22
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

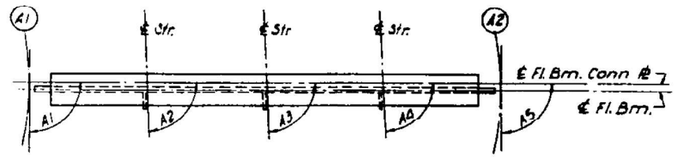
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVFB&E	ST. CLAIR	247	58
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

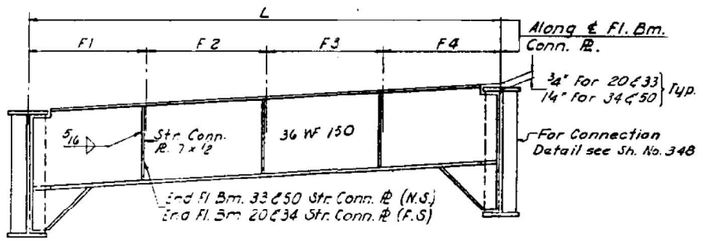
STRG	L	S1	S2	S3	S4	B1	B2
50	30' 3 7/8"	16' 3/4"		19' 1 1/2"	15' 1 11/16"	89°38'14"	89°20.31"
51	30 5 9/16	16 13/16		19 2 3/8	15 2 3/8	89.38.13	89.20.32
52	30 7 5/16	16 7/8		19 3 5/16	15 3 1/8	89.38.11	89.20.34
53	46 2 9/16	3 11 13/16	19 1 1/2	19 1 1/2	3 11 13/16	89.20.25	89.20.25
54	46 4 13/16	4	19 2 3/8	19 2 3/8	4	89.20.25	89.20.25
55	46 7	4 3/16	19 3 5/16	19 3 5/16	4 3/16	89.20.25	89.20.25
56	49 4 13/16	15 1 11/16	19 1 1/2		15 1 11/16	89.17.41	89.17.41
57	49 7 3/16	15 2 3/8	19 2 3/8		15 2 3/8	89.17.41	89.17.41
58	49 9 9/16	15 3 1/8	19 3 5/16		15 3 1/8	89.17.41	89.17.41
59	46 2 9/16	3 11 13/16	19 1 1/2	19 1 1/2	3 11 13/16	89.20.25	89.20.25
60	46 4 13/16	4	19 2 3/8	19 2 3/8	4	89.20.25	89.20.25
61	46 7	4 3/16	19 3 5/16	19 3 5/16	4 3/16	89.20.25	89.20.25
62	50 3 1/8	15 1 11/16	19 1 1/2	15 11 15/16		89.16.57	89.14.40
63	50 5 9/16	15 2 3/8	19 2 3/8	16 13/16		89.16.57	89.14.41
64	50 8 1/16	15 3 1/8	19 3 5/16	16 1 5/8		89.16.57	89.14.41
65	28 3 9/16		12 3 5/16		16 1/4	89.33.29	89.35.46
66	28 5		12 4		16 1	89.33.29	89.35.45
67	28 6 7/16		12 4 5/8		16 1 3/4	89.33.29	89.35.45
68	40 6 1/16	4 2 13/16	20 3		16 1/4	89.25.19	89.25.18
69	40 8	4 3	20 4		16 1	89.25.19	89.25.18
70	40 9 15/16	4 3 3/16	20 4 15/16		16 1 3/4	89.25.19	89.25.19
71	48 11 5/8	4 2 13/16	20 3	20 3	4 2 13/16	89.18.04	89.18.03
72	49 2	4 3	20 4	20 4	4 3	89.18.04	89.18.03
73	49 4 5/16	4 3 3/16	20 4 15/16	20 4 15/16	4 3 3/16	89.18.04	89.18.03
74	40 6 1/16	16 1/4	20 3		4 2 13/16	89.25.19	89.25.18
75	40 8	16 1	20 4		4 3	89.25.19	89.25.18
76	40 9 15/16	16 1 3/4	20 4 15/16		4 3 3/16	89.25.19	89.25.19
77	32 7/16	16 1/4			16 1/4	89.32.34	89.32.33
78	32 2	16 1			16 1	89.32.34	89.32.34
79	32 3 1/2	16 1 3/4			16 1 3/4	89.32.34	89.32.34
80	48 11 5/8	4 2 13/16	20 3	20 3	4 2 13/16	89.18.04	89.18.03
81	49 2	4 3	20 4	20 4	4 3	89.18.04	89.18.03
82	49 4 5/16	4 3 3/16	20 4 15/16	20 4 15/16	4 3 3/16	89.18.04	89.18.03
83	40 6 1/16	16 1/4	20 3		4 2 13/16	89.25.19	89.25.19
84	40 8	16 1	20 4		4 3	89.25.19	89.25.19
85	40 9 15/16	16 1 3/4	20 4 15/16		4 3 3/16	89.25.19	89.25.19
86	28 3 9/16	16 1/4			12 3 5/16	89.35.46	89.33.29
87	28 5	16 1			12 4	89.35.46	89.33.29
88	28 6 7/16	16 1 3/4			12 4 5/8	89.35.45	89.33.29

FLOOR BEAM DIMENSIONS

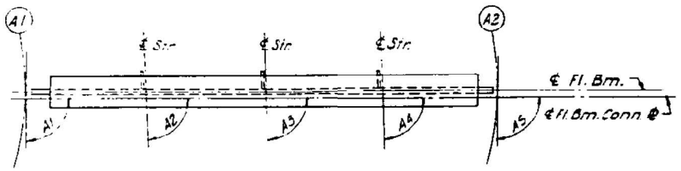
FL BM	L	F1	F2	F3	F4	A1	A2	A3	A4	A5
20	32' - 0"	8' - 0"	8' - 0"	8' - 0"	8' 0"	90°00'00"	89°38'14"	89°38'13"	89°38'11"	90°00'00"
21	32	7 10 13/16	8	8	8 1 3/16	90.00.00	89.40.48	89.40.47	89.40.45	90.00.00
22	32	7 10 5/8	8	8	8 1 7/16	90.00.00	90.13.30	90.13.32	90.13.30	90.00.00
23	32	7 11 1/2	8	8	8 1/2	90.00.00	89.27.15	89.27.15	89.27.15	90.00.00
24	32	7 10 3/8	8	8	8 1 5/8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
25	32	7 11 1/2	8	8	8 1/2	90.00.00	90.32.45	90.32.45	90.32.45	90.00.00
26	32	7 10 7/16	8	8	8 1 9/16	90.00.00	89.43.37	89.43.37	89.43.37	90.00.00
27	32	7 10 7/16	8	8	8 1 9/16	90.00.00	90.16.23	90.16.23	90.16.23	90.00.00
28	32	7 11 1/2	8	8	8 1/2	90.00.00	89.27.15	89.27.15	89.27.15	90.00.00
29	32	7 10 3/8	8	8	8 1 5/8	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
30	32	7 11 1/2	8	8	8 1/2	90.00.00	90.32.45	90.32.45	90.32.45	90.00.00
31	32	7 10 7/16	8	8	8 1 5/8	90.00.00	89.42.53	89.42.53	89.42.53	90.00.00
32	32	7 10 3/8	8	8	8 1 5/8	90.00.00	90.15.39	90.15.38	90.15.38	90.00.00
33	32	8	8	8	8	90.02.18	90.45.20	90.45.19	90.45.19	90.02.16
34	32	8	8	8	8	89.57.43	89.33.29	89.33.29	89.33.29	89.57.44
35	32	7 11 7/16	8	8	8 5/8	90.00.00	89.56.48	89.56.48	89.56.48	90.00.00
36	32	7 11 9/16	8	8	8 7/16	90.00.00	89.32.34	89.32.34	89.32.34	90.00.00
37	32	7 10 13/16	8	8	8 1 3/16	90.00.00	90.07.15	90.07.15	90.07.15	90.00.00
38	32	7 11 7/16	8	8	8 9/16	90.00.00	89.25.19	89.25.19	89.25.19	90.00.00
39	32	7 10 3/16	8	8	8 1 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
40	32	7 11 7/16	8	8	8 9/16	90.00.00	90.34.42	90.34.42	90.34.41	90.00.00
41	32	7 10 13/16	8	8	8 1 3/16	90.00.00	89.52.45	89.52.45	89.52.45	90.00.00
42	32	7 11 9/16	8	8	8 7/16	90.00.00	90.27.27	90.27.26	90.27.26	90.00.00
43	32	7 11 1/4	8	8	8 3/4	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
44	32	7 11 7/16	8	8	8 9/16	90.00.00	89.25.19	89.25.19	89.25.19	90.00.00
45	32	7 10 3/16	8	8	8 1 13/16	90.00.00	90.00.00	90.00.00	90.00.00	90.00.00
46	32	7 11 7/16	8	8	8 9/16	90.00.00	90.34.42	90.34.42	90.34.41	90.00.00
47	32	7 10 13/16	8	8	8 1 3/16	90.00.00	89.52.45	89.52.45	89.52.45	90.00.00
48	32	7 11 9/16	8	8	8 7/16	90.00.00	90.27.26	90.27.26	90.27.26	90.00.00
49	32	7 11 7/16	8	8	8 9/16	90.00.00	90.03.12	90.03.12	90.03.12	90.00.00
50	32	8	8	8	8	90.02.18	90.28.31	90.28.31	90.28.31	90.02.16



PLAN END FL. BM. 33 AND 50

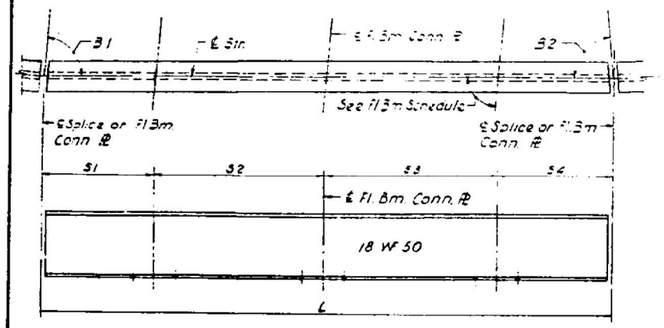


ELEVATION

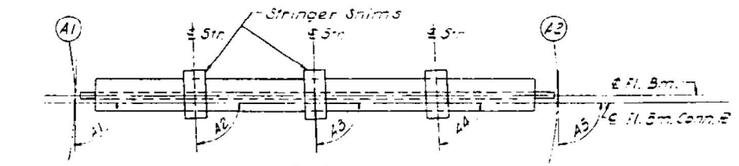


PLAN END FL BM 20 AND 34

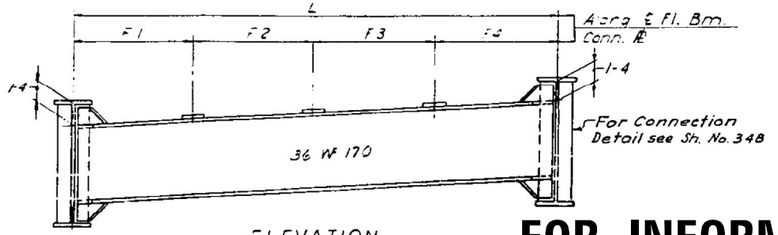
END FLOOR BEAM 20,33,34 AND 50



TYPICAL STRINGER



PLAN



ELEVATION

INTERIOR FLOOR BEAM 21 THRU 32 AND 35 THRU 49

Notes:
Length L of Stringers and Fl. Bms is correct as given in the table except the increment lengths are given to the nearest 1/16
All dimensions are in the horizontal plane.
For Connection Plate Details see Sheet No. 348

DESIGNED BY A.T. C.A.L.C.
DRAWN BY I.M.
CHECKED BY A.A.
APPROVED BY A.A.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM SCHEDULE
SPANS A5 THRU A10
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFB&E
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
SHEET 169 OF 526

0141

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FILE NAME: z:\projects\dot\enrom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\D8769P10\CADData\CADsheets\D8769P10-cntr-typ-final.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 9 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	23
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFBE4	ST. CLAIR	247	59
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

FLOOR BEAM 21	T1	T2	T3	T4
STR.		-		
50	15/16	1/2	1	9/16
51	15/16	1/2	1	9/16
52	7/8	7/16	1 1/16	5/8

FLOOR BEAM 22	T1	T2	T3	T4
STR.				
50	1	1/2	1	1/2
51	15/16	7/16	1 1/16	9/16
52	15/16	7/16	1 1/16	9/16

FLOOR BEAM 23	T1	T2	T3	T4
STR.				
53	1	7/16	1 1/16	1/2
54	1	7/16	1 1/16	1/2
55	15/16	3/8	1 1/8	9/16

FLOOR BEAM 24	T1	T2	T3	T4
STR.				
53	1	7/16	1 1/16	1/2
54	1	7/16	1 1/16	1/2
55	1	3/8	1 1/8	1/2

FLOOR BEAM 25	T1	T2	T3	T4
STR.				
53	1	7/16	1 1/16	1/2
54	1	3/8	1 1/8	1/2
55	1	3/8	1 1/8	1/2

FLOOR BEAM 26 THRU 27	T1	T2	T3	T4
STR. 56 THRU 58	1	3/8	1 1/8	1/2

FLOOR BEAM 28 THRU 30	T1	T2	T3	T4
STR. 59 THRU 61	1	3/8	1 1/8	1/2

FLOOR BEAM 31 THRU 32	T1	T2	T3	T4
STR. 62 THRU 64	1	3/8	1 1/8	1/2

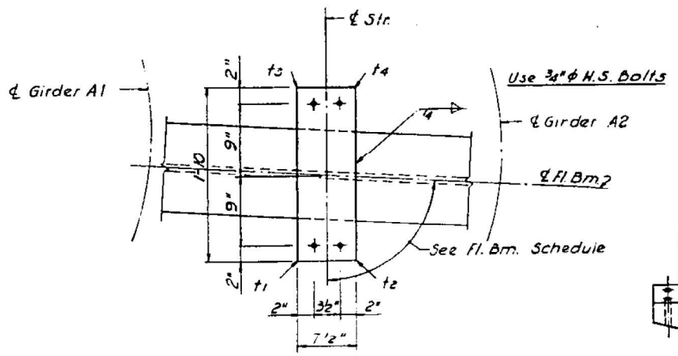
FLOOR BEAM 35 THRU 37	T1	T2	T3	T4
STR. 65 THRU 70	1	3/8	1 1/8	1/2

FLOOR BEAM 38 THRU 40	T1	T2	T3	T4
STR. 71 THRU 73	1	3/8	1 1/8	1/2

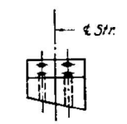
FLOOR BEAM 41 THRU 43	T1	T2	T3	T4
STR. 74 THRU 79	1	3/8	1 1/8	1/2

FLOOR BEAM 44 THRU 46	T1	T2	T3	T4
STR. 80 THRU 82	1	3/8	1 1/8	1/2

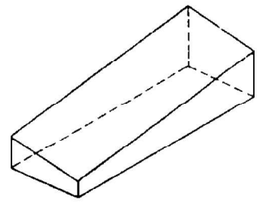
FLOOR BEAM 47 THRU 49	T1	T2	T3	T4
STR. 83 THRU 88	1	3/8	1 1/8	1/2



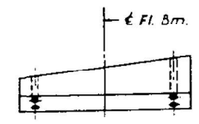
PLAN



END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

FOR INFORMATION ONLY

DESIGNED BY A.J.C.
DRAWN BY I.M.
CHECKED BY A.S.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER SHIMS
SPANS A5 THRU A10
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFBE-1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET 59 OF 526

0141

MODEL: SMODELNAMES
FILE NAME: ow:\\Burearoom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D876P10\CADData\CADSheets\D876P10-sht-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

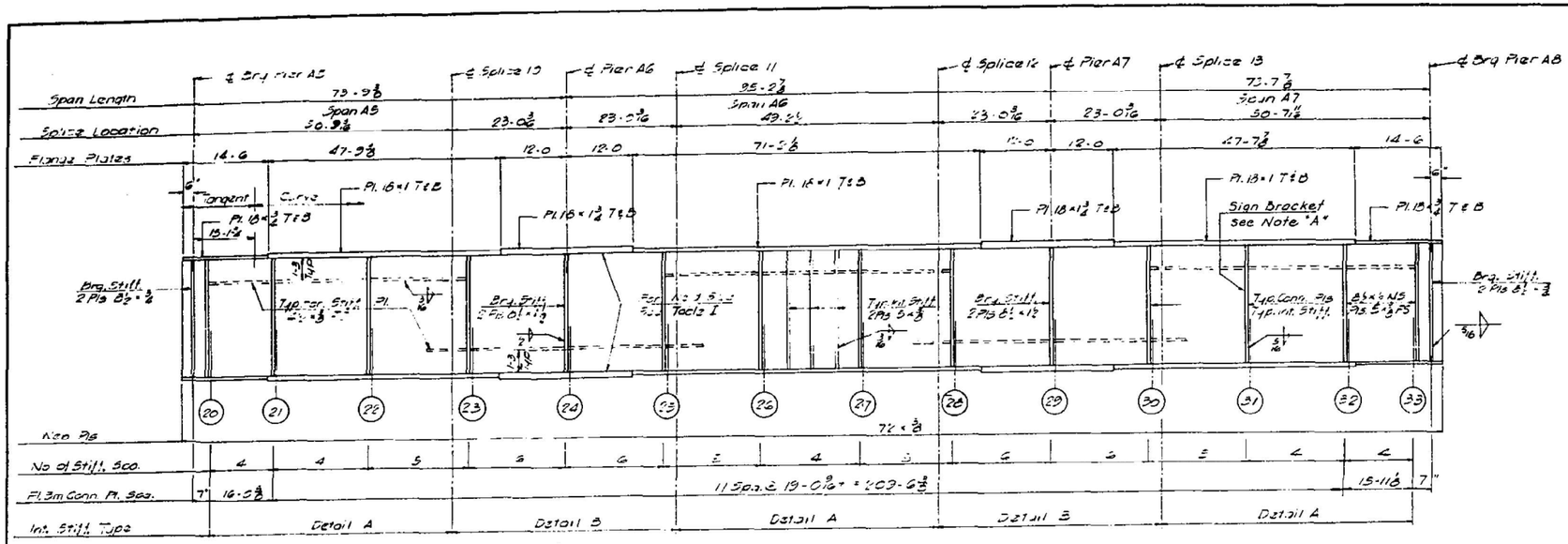
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 10 OF 25 SHEETS | STA. _____ | TO STA. _____

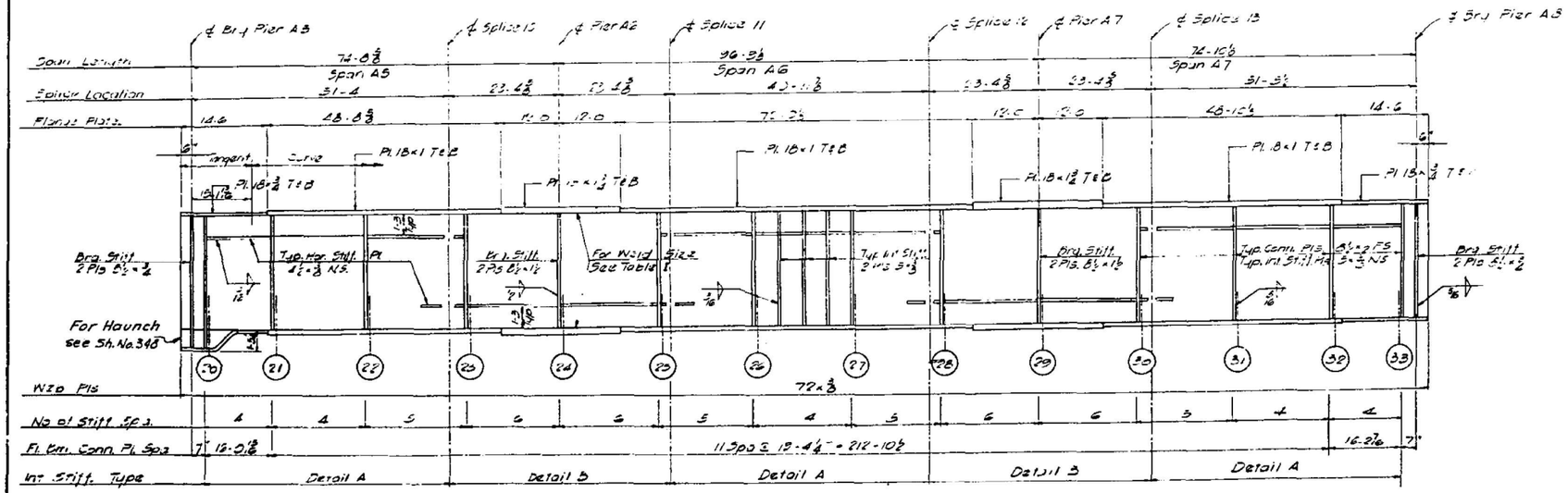
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	24
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	60
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A5 thru A7

Note "A"
Intermediate Stiffeners should be moved if necessary to clear sign bracket connection plates.



GIRDER A2
Spans A5 thru A7

Notes:
All Longitudinal Dimensions Shown are given along ℄ of Web. See Sheet No. 187.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 348 349, 350.
For Sign Bracket Detail see Sheet No. 360.

FOR INFORMATION ONLY

DESIGNED BY A. T.
DRAWN BY V.P.
CHECKED BY E. L.
APPROVED BY K. A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS A1 AND A2
SPANS A5 THRU A7
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

M. W. LOCHNER, INC. ENGINEERS
CHICAGO, ILLINOIS

SHEET 190 OF 524

0141

USER NAME = hughesrd	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 11 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	25
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

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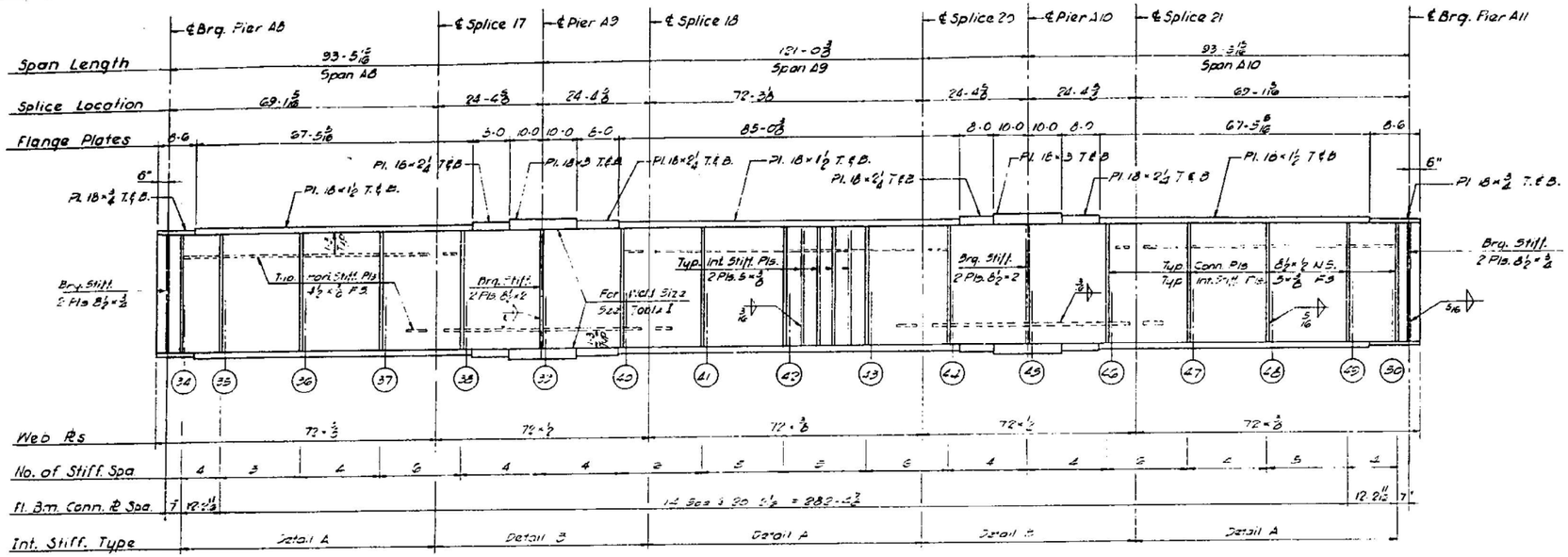
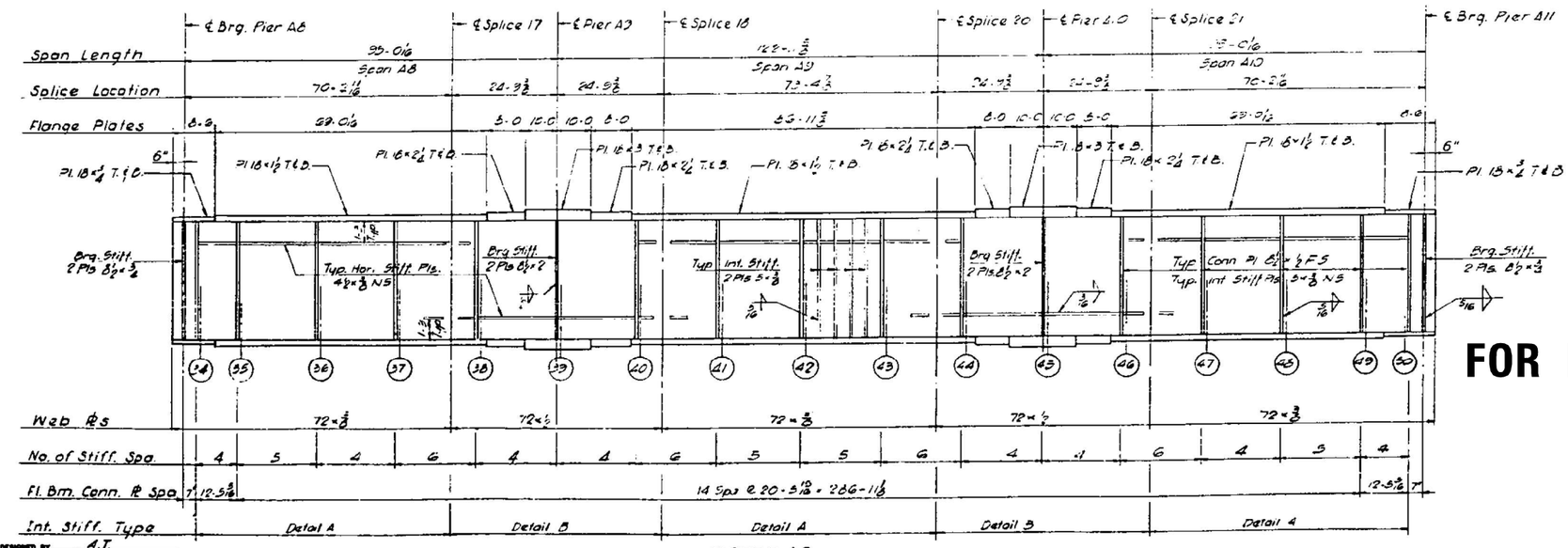
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F A I 70	82-3HVF & E-1	ST. CLAIR	247	61
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A8 thru A10



GIRDER A2
Spans A8 thru A10

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY E.L.
APPROVED BY K.A.

Notes:
All Longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 187.
All Bearing Stiffeners and Connection Plates to be Vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No. 348, 349, 350.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS A1 AND A2
SPANS A8 THRU A10
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 191 OF 526

0141

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USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

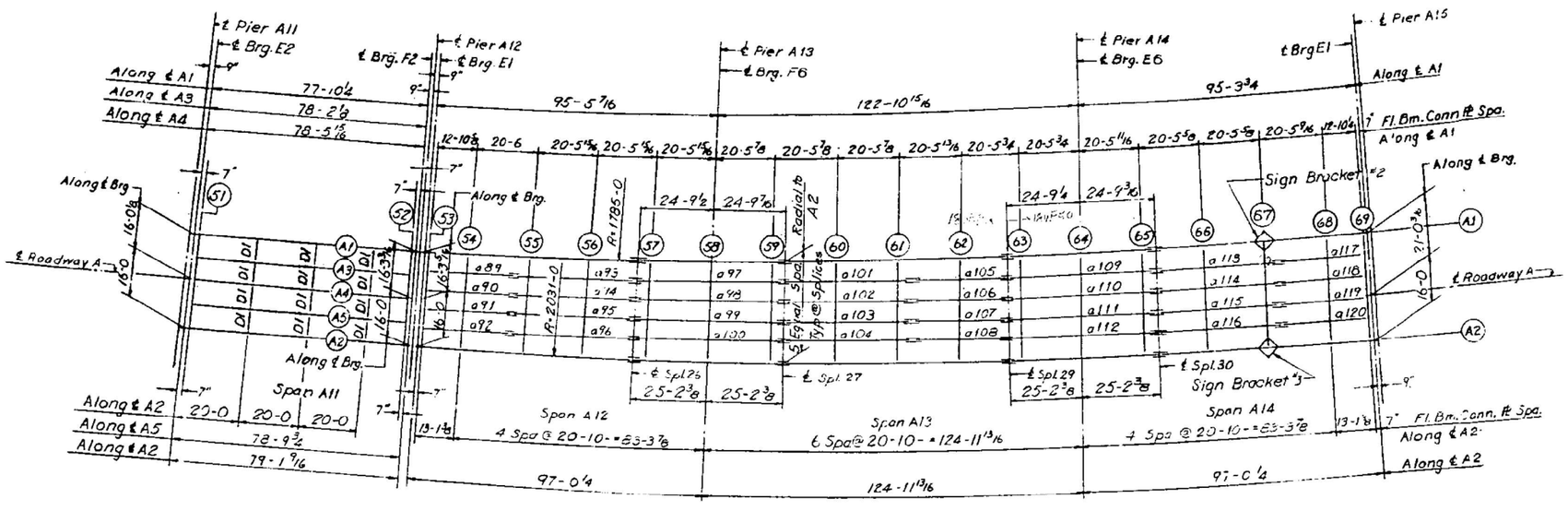
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 12 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	26
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFBE-1	ST. CLAIR	247	62
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS A11 THRU A14

ELEVATION TOP OF FLANGE

		STR. A1	STR. A2	DIFF.
CL. BRG.		447.288	449.849	2.561
FLOOR BEAM	51	447.271	449.832	2.561
FLOOR BEAM	52	447.637	450.218	2.581
CL. BRG.		447.640	450.221	2.581

ELEVATION TOP OF GIRDER WEB

		GIR. A1	GIR. A2	DIFF.
CL. BRG.		447.438	450.020	2.582
FLOOR BEAM	53	447.440	450.023	2.583
FLOOR BEAM	54	447.487	450.088	2.591
FLOOR BEAM	55	447.588	450.191	2.603
FLOOR BEAM	56	447.678	450.295	2.617
SPLICE	26	447.750	450.376	2.626
FLOOR BEAM	57	447.767	450.398	2.631
FLOOR BEAM	58	447.852	450.501	2.649
FLOOR BEAM	59	447.936	450.605	2.669
SPLICE	27	447.954	450.626	2.672
FLOOR BEAM	60	448.018	450.708	2.690
FLOOR BEAM	61	448.095	450.811	2.716
FLOOR BEAM	62	448.173	450.915	2.742

		GIR. A1	GIR. A2	DIFF.
SPLICE	29	448.235	450.996	2.761
FLOOR BEAM	63	448.251	451.018	2.767
FLOOR BEAM	64	448.323	451.121	2.798
FLOOR BEAM	65	448.396	451.225	2.829
SPLICE	30	448.411	451.246	2.835
FLOOR BEAM	66	448.464	451.328	2.864
FLOOR BEAM	67	448.531	451.431	2.900
FLOOR BEAM	68	448.597	451.535	2.938
FLOOR BEAM	69	448.639	451.600	2.961
CL. BRG.		448.641	451.602	2.961

Note:

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see sketch Sheet No. 183 For Sign Bracket Detail see Sh. No. 360.

FOR INFORMATION ONLY

BILL OF MATERIAL		
*Structural Steel	Lbs.	556,890

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 11,270 Lbs.

DESIGNED BY R.J.R.
DRAWN BY D.C.H.
CHECKED BY A.J.C.
APPROVED BY K.A.

Per Str. Steel from 558,900# to 556,890# 6-3-66 N.R.F.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS A11 THRU A14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFBE-1

H. W. LOCKNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
192 OF 526

0141

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 13 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	27
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

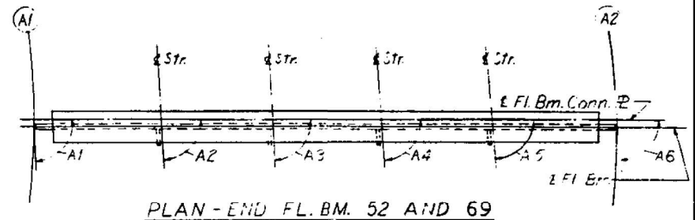
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF & E-1	ST. CLAIR	247	63
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

ST. INNER DIMENSIONS

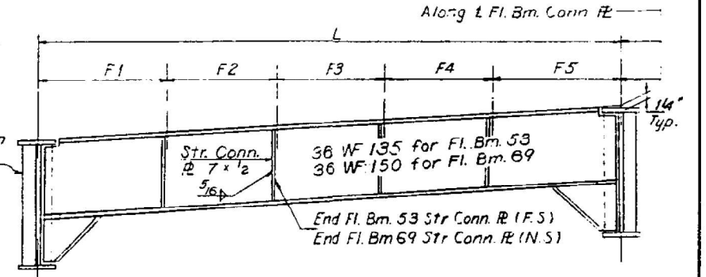
STR#	L	S1	S2	S3	S4	B1	B2
89	29'-2 3/16"	12'-11 1/8"			16'-3 1/16"	89°14'27"	89°53.14"
90	29 3 3/8	12 11 11/16			16 3 11/16	89.18.03	89.48.37
91	29 4 9/16	13 1/4			16 4 5/16	89.23.33	89.44.02
92	29 5 3/4	13 13/16			16 4 15/16	89.28.11	89.39.29
93	41 1 1/2	4 3 3/4	20 6 3/4		16 3	89.00.44	89.48.45
94	41 3 1/8	4 3 15/16	20 7 9/16		16 3 5/8	89.06.48	89.42.41
95	41 4 11/16	4 4 1/16	20 8 3/8		16 4 1/4	89.12.49	89.36.40
96	41 6 5/16	4 4 1/4	20 9 3/16		16 4 15/16	89.18.48	89.30.41
97	49 8 7/8	4 3 3/4	20 6 3/4	20 6 11/16	4 3 3/4	88.45.55	89.48.46
98	49 10 7/8	4 3 15/16	20 7 9/16	20 7 1/2	4 3 7/8	88.53.51	89.40.50
99	50 1/16	4 4 1/16	20 8 5/16	20 8 5/16	4 4 1/16	89.01.44	89.32.57
100	50 2 3/4	4 4 1/4	20 9 1/8	20 9 1/8	4 4 1/4	89.09.34	89.25.08
101	41 1 5/16	16 3	20 6 5/8		4 3 11/16	88.45.55	90.03.34
102	41 3	16 3 5/8	20 7 1/2		4 3 7/8	88.55.43	89.53.46
103	41 4 5/8	16 4 1/4	20 8 5/16		4 4 1/16	89.05.27	89.44.02
104	41 6 1/4	16 4 15/16	20 9 1/8		4 4 1/4	89.15.08	89.34.21
105	32 5 13/16	16 2 15/16			16 2 7/8	88.47.19	90.16.57
106	32 7 1/8	16 3 9/16			16 3 9/16	88.58.38	90.05.38
107	32 8 7/16	16 4 1/4			16 4 3/16	89.09.53	89.54.23
108	32 9 3/4	16 4 7/8			16 4 7/8	89.21.03	89.43.13
108	49 8 1/2	4 3 11/16	20 6 9/16	20 6 1/2	4 3 11/16	88.25.52	90.08.49
110	49 10 9/16	4 3 7/8	20 7 7/16	20 7 3/8	4 3 7/8	88.38.52	89.55.49
111	50 5/8	4 4 1/16	20 8 1/4	20 8 1/4	4 4 1/16	88.51.47	89.42.55
112	50 2 11/16	4 4 1/4	20 9 1/8	20 9 1/16	4 4 1/4	89.04.37	89.30.05
113	41 15/16	16 2 13/16	20 6 7/16		4 3 11/16	88.25.56	90.23.33
114	41 2 11/16	16 3 1/2	20 7 5/16		4 3 7/8	88.40.47	90.08.42
115	41 4 7/16	16 4 3/16	20 8 3/16		4 4 1/16	88.55.32	89.53.56
116	41 6 3/16	16 4 7/8	20 9 1/16		4 4 1/4	89.10.12	89.39.17
117	29 1 5/8	16 2 3/4			12 10 7/8	88.30.32	90.37.09
118	29 2 15/16	16 3 7/16			12 11 1/2	88.46.49	90.20.52
119	29 4 1/4	16 4 1/8			13 1/8	89.02.59	90.04.41
120	29 5 9/16	16 4 7/8			13 3/4	89.19.02	89.48.38

FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	F4	F5	A1	A2	A3	A4	A5	A6
51	32'-1/8"	8'-1/8"	8'	8'	C	8'	88°40.19"	88°51.45"	88°51.45"	—	88°51.45"	88°51.45"
52	32 3/16	8 3/16	8	8	0	8	90.56.48	91.08.15	91.08.15	—	91.08.15	91.08.15
53	32 3-3/8	6 5-1/2	6 5-1/2	6 5-1/2	6 5-1/2	6 5-1/2	89.37.48	89.14.27	89.15.07	89.23.38	89.28.11	89.57.44
54	32 4 5/16	6 5	6 5 11/16	6 5 11/16	6 5 11/16	6 6 5/16	89.37.27	89.38.54	89.43.31	89.48.06	89.52.39	90.00.00
55	32 6 1/16	6 5 1/2	6 6	6 6	6 6	6 6 1/2	89.33.14	89.08.09	89.14.11	89.20.13	89.26.11	90.00.00
56	32 8 1/8	6 5 1/8	6 6 7/16	6 6 7/16	6 6 7/16	6 7 11/16	89.29.01	89.43.23	89.49.27	89.55.29	90.01.27	90.00.00
57	32 10 1/2	6 6 1/4	6 6 15/16	6 6 15/16	6 6 15/16	6 7 1/2	89.24.48	88.53.15	89.01.15	89.09.08	89.16.58	90.00.00
58	33 1 3/16	6 5 7/16	6 7 1/2	6 7 1/2	6 7 1/2	6 9 3/8	89.20.35	89.28.35	89.36.31	89.44.23	89.52.13	90.00.00
59	33 4 1/8	6 7 3/8	6 8 1/16	6 8 1/16	6 8 1/16	6 8 5/8	89.16.23	90.03.50	90.11.46	90.19.39	90.27.29	90.00.00
60	33 7 7/16	6 7 3/8	6 8 11/16	6 8 11/16	6 8 11/16	6 9 15/16	89.12.11	89.13.47	89.23.35	89.33.19	89.43.00	90.00.00
61	33 11	6 8 7/8	6 9 7/16	6 9 7/16	6 9 7/16	6 9 7/8	89.07.59	89.49.02	89.58.50	90.08.35	90.18.15	90.00.00
62	34 2 7/8	6 9 5/16	6 10 3/16	6 10 3/16	6 10 3/16	6 11	89.03.48	89.15.11	89.26.30	89.37.45	89.48.55	90.00.00
63	34 7	6 10 3/8	6 11	6 11	6 11	6 11 5/8	88.59.36	88.33.16	88.46.16	88.59.11	89.12.00	90.00.00
64	34 11 1/2	6 9 7/8	6 11 15/16	6 11 15/16	6 11 15/16	7 1 13/16	88.55.26	89.08.31	89.21.32	89.34.26	89.47.16	90.00.00
65	35 4 1/4	7 3/16	7 7/8	7 7/8	7 7/8	7 1 7/16	88.51.15	89.43.47	89.56.47	90.09.42	90.22.31	90.00.00
66	35 9 5/16	7 9/16	7 1 7/8	7 1 7/8	7 1 7/8	7 3 1/16	88.47.05	88.53.48	89.08.39	89.23.24	89.38.04	90.00.00
67	36 2 11/16	7 2 7/16	7 2 15/16	7 2 15/16	7 2 15/16	7 3 7/16	88.42.56	89.29.03	89.43.55	89.58.40	90.13.19	90.00.00
68	36 8 5/16	7 3 3/8	7 4 1/16	7 4 1/16	7 4 1/16	7 4 11/16	88.28.47	88.58.24	89.14.41	89.30.51	89.46.54	90.00.00
69	37	7 4 13/16	7 4 13/16	7 4 13/16	7 4 13/16	7 4 13/16	88.38.29	89.22.51	89.39.08	89.55.19	90.11.22	90.02.16

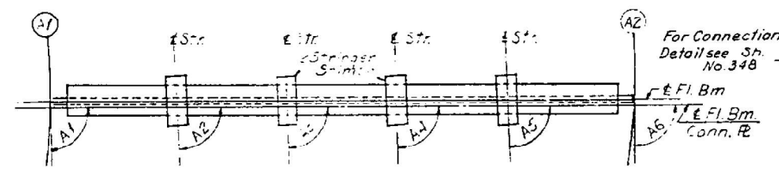


PLAN - END FL. BM. 52 AND 69

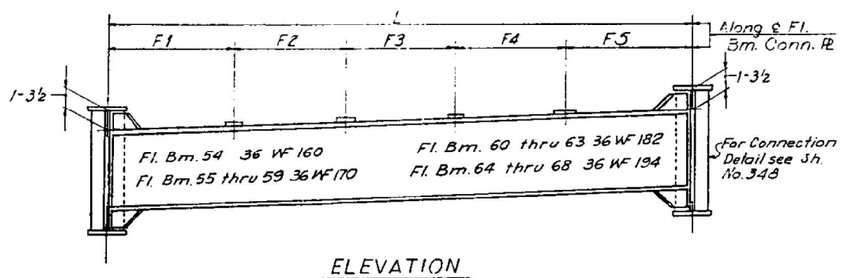


ELEVATION - END FL. BM. 53 AND 69

Note: For Elevation and Detail of End Fl. Bm. 51 and 52 see Sh. No. 195

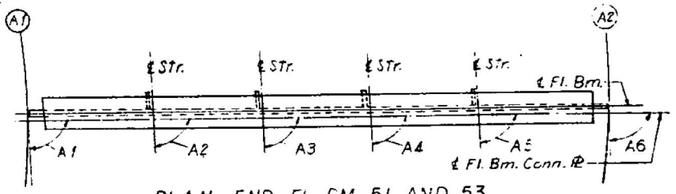


PLAN



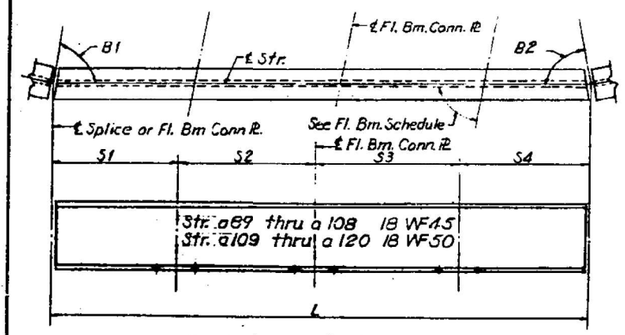
ELEVATION

INTERIOR FLOOR BEAM 54 THRU 68



PLAN END FL. BM. 51 AND 53

END FLOOR BEAM 51, 52, 53 AND 69



TYPICAL STRINGER

FOR INFORMATION ONLY

Notes:

Length L of stringers and Fl. Bms. is correct as given in the Table except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Details of Stringer in Span A11 see Sh. No. 195
For Connection Plate Details see Sh. No. 348

DESIGNED BY A.T. & A.J.C
DRAWN BY DCH
CHECKED BY A.A.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS A11 THRU A14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFBE-1
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
SHEET 193 OF 526

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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 14 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	28
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF&E-1	ST. CLAIR	247	64
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 54 THRU 56	T1	T2	T3	T4
STR. 89 THRU 96	1	3/8	1 1/8	1/2

FLOOR BEAM 57	T1	T2	T3	T4
STR.				
97	1	3/8	1 1/8	1/2
98	1	3/8	1 1/8	1/2
99	1	3/8	1 1/8	1/2
100	1	3/8	1 1/8	1/2

FLOOR BEAM 58	T1	T2	T3	T4
STR.				
97	1	3/8	1 1/8	1/2
98	1	3/8	1 1/8	1/2
99	1	3/8	1 1/8	1/2
100	1	3/8	1 1/8	1/2

FLOOR BEAM 59	T1	T2	T3	T4
STR.				
97	1	3/8	1 1/8	1/2
98	1	3/8	1 1/8	1/2
99	1	3/8	1 1/8	1/2
100	1	3/8	1 1/8	1/2

FLOOR BEAM 60	T1	T2	T3	T4
STR.				
101	1	3/8	1 1/8	1/2
102	1	3/8	1 1/8	1/2
103	1	3/8	1 1/8	1/2
104	1	3/8	1 1/8	1/2

FLOOR BEAM 61	T1	T2	T3	T4
STR.				
101	1	3/8	1 1/8	1/2
102	1	3/8	1 1/8	1/2
103	1	3/8	1 1/8	1/2
104	1	3/8	1 1/8	1/2

FLOOR BEAM 62	T1	T2	T3	T4
STR.				
101	1	3/8	1 1/8	1/2
102	1	3/8	1 1/8	1/2
103	1	3/8	1 1/8	1/2
104	1	3/8	1 1/8	1/2

FLOOR BEAM 63	T1	T2	T3	T4
STR.				
109	1	7/16	1 1/16	1/2
110	1	3/8	1 1/8	1/2
111	1	3/8	1 1/8	1/2
112	1	3/8	1 1/8	1/2

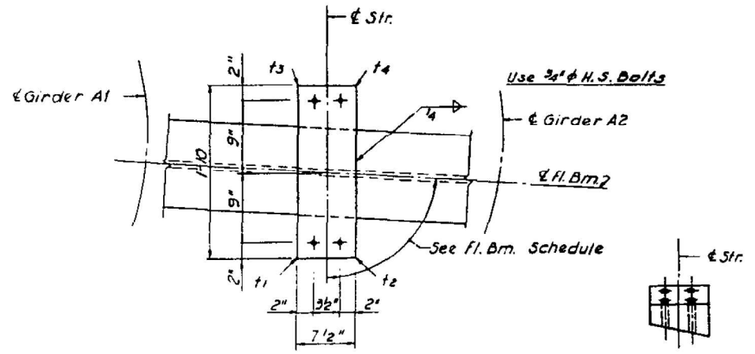
FLOOR BEAM 64	T1	T2	T3	T4
STR.				
109	1	7/16	1 1/16	1/2
110	1	3/8	1 1/8	1/2
111	1	3/8	1 1/8	1/2
112	1	3/8	1 1/8	1/2

FLOOR BEAM 65	T1	T2	T3	T4
STR.				
109	1	7/16	1 1/16	1/2
110	1	3/8	1 1/8	1/2
111	1	3/8	1 1/8	1/2
112	1	3/8	1 1/8	1/2

FLOOR BEAM 66	T1	T2	T3	T4
STR.				
113	1	7/16	1 1/16	1/2
114	1	7/16	1 1/16	1/2
115	1	3/8	1 1/8	1/2
116	1	3/8	1 1/8	1/2

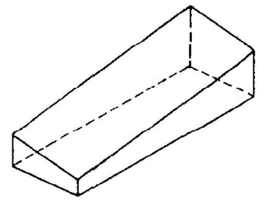
FLOOR BEAM 67	T1	T2	T3	T4
STR.				
113	1	7/16	1 1/16	1/2
114	1	7/16	1 1/16	1/2
115	1	3/8	1 1/8	1/2
116	1	3/8	1 1/8	1/2

FLOOR BEAM 68	T1	T2	T3	T4
STR.				
117	1	7/16	1 1/16	1/2
118	1	7/16	1 1/16	1/2
119	1	3/8	1 1/8	1/2
120	1	3/8	1 1/8	1/2

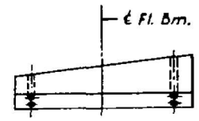


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

FOR INFORMATION ONLY

DESIGNED BY A.J.C.
DRAWN BY I.M.
CHECKED BY A.S.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

STRINGER SHIMS

SPANS A12 THRU A14

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 134 OF 526

0141

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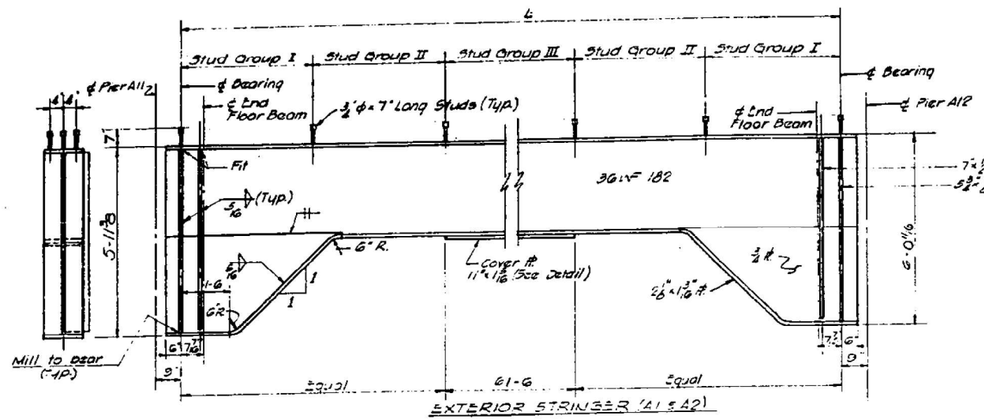
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

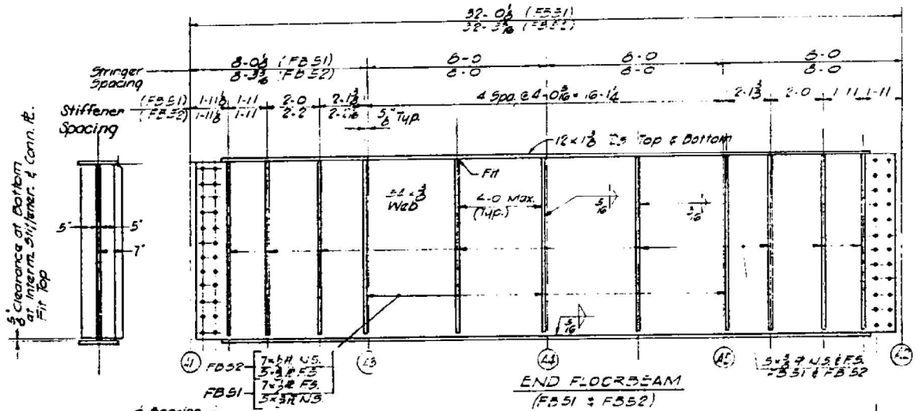
SCALE: NTS | SHEET 15 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	29
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

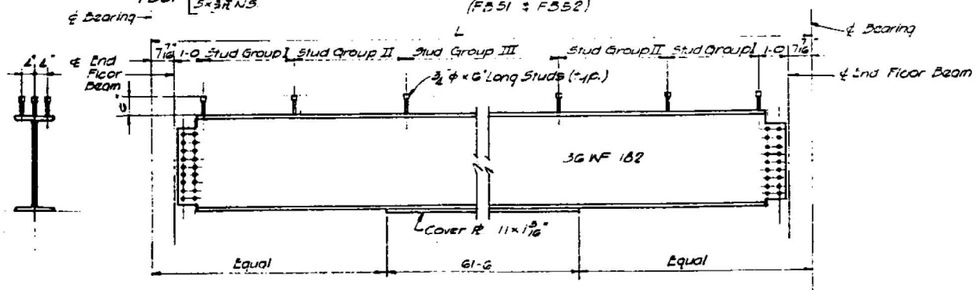
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I — 70	82-3HVF & E-1	ST. CLAIR	247	65
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



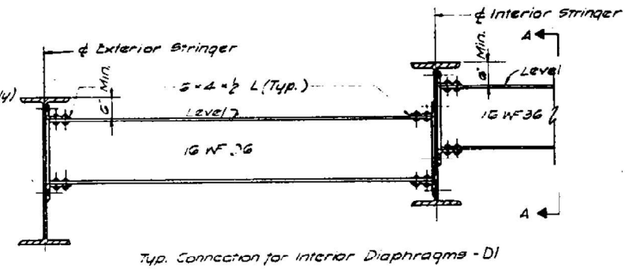
EXTERIOR STRINGER (A1 & A2)



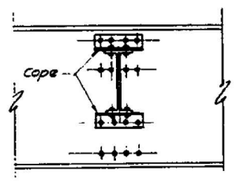
END FLOORBEAM
(FB S1 & FB S2)



INTERIOR STRINGER
(A3, A4 & A5)

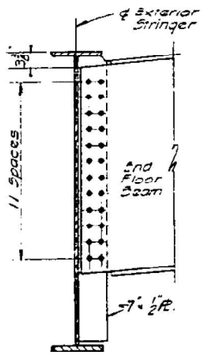


Typ. Connection for Interior Diaphragms - D1

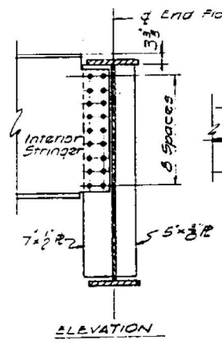


SECTION A-A

DIAPHRAGM DETAILS



ELEVATION



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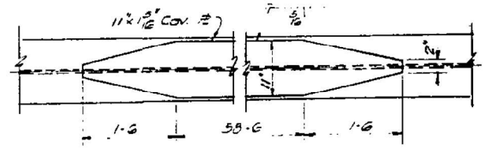
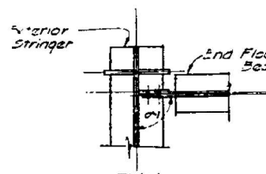


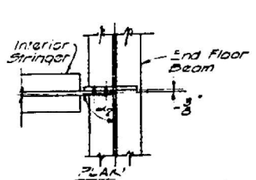
COVER PLATE DETAIL

NOTE

Clip all Stiffeners and Connection Plates 3/4"x3/4" at corners to clear welding of flange to web and to clear beam fillets.



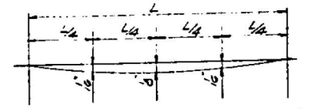
END FLOOR BEAM TO EXTERIOR STRINGER CONNECTION



INTERIOR STRINGER TO END FLOOR BEAM CONNECTION

NOTE: For Angles see Floor Beam Schedule. Sheet No. 193

STRINGER	LENGTH	GROUP I	GROUP II	GROUP III
A1	77-10 1/2"	35@4 1/2"	30@6 1/2"	21@10"
A3	78-2 5/8"	32@4 1/2"	31@6 1/2"	19@10"
A4	78-5 5/8"	32@4 1/2"	31@6 1/2"	19@10 1/2"
A5	78-9 1/2"	32@4 1/2"	31@6 1/2"	19@10 1/2"
A2	79-1 5/16"	36-4 1/2"	31@6 1/2"	20@10"



DEAD LOAD DEFLECTION DIAGRAM FOR END FLOOR BEAM
(Wt. of Concrete Only)

NOTE 3:

For Framing Plan see Sheet No. 192

DESIGNED BY H.J.
DRAWN BY V.
CHECKED BY L.W.
APPROVED BY K.A.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

STEEL DETAILS

SPAN A11
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F. A. I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 195 OF 325

0141

MODEL: SMODELNAMES
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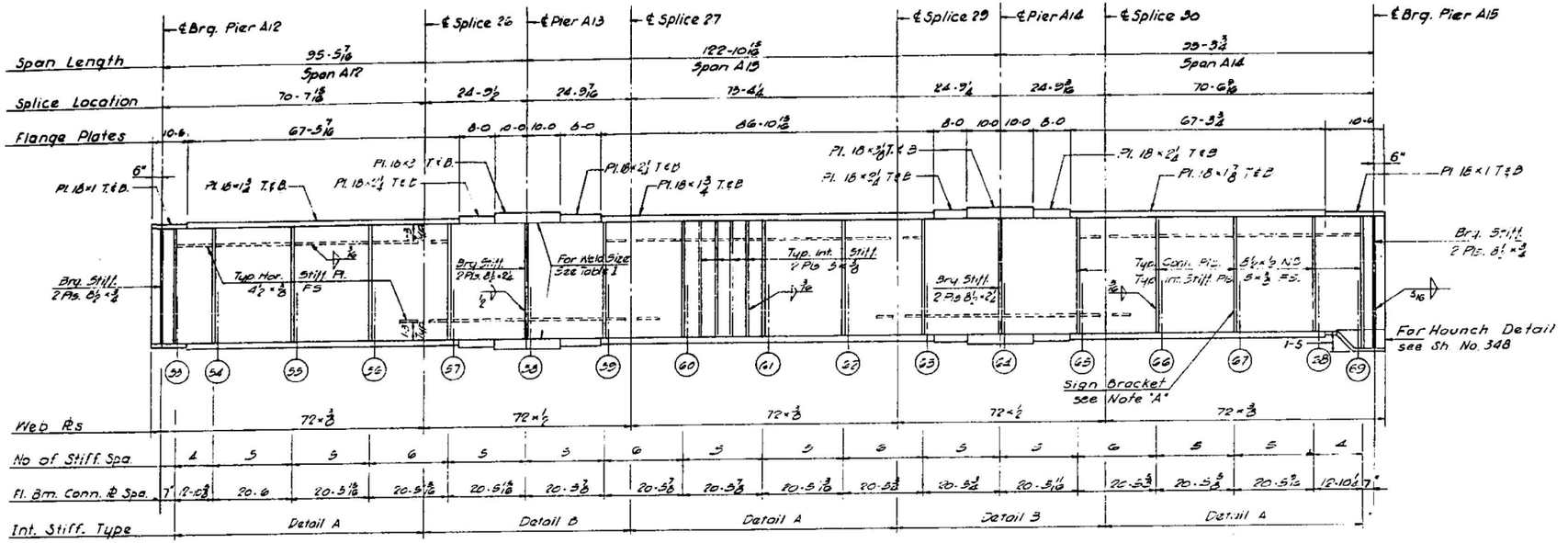
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 16 OF 25 SHEETS | STA. _____ | TO STA. _____

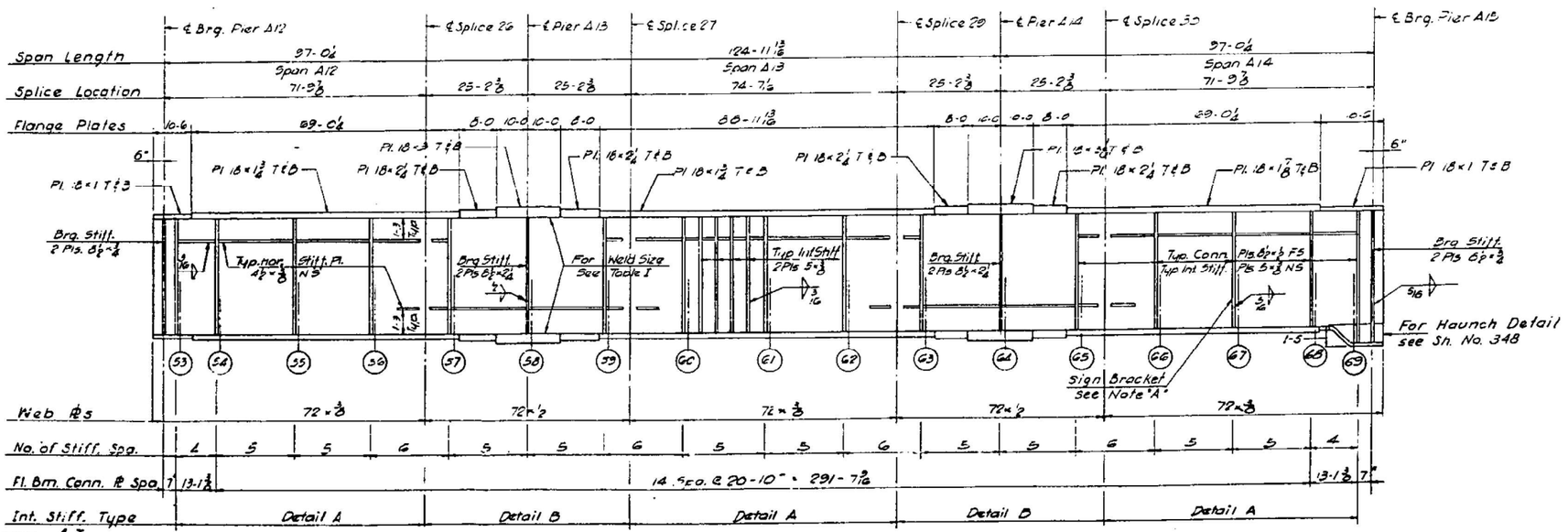
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	30
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	66
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A12 thru A14

Note "A"
Intermediate Stiffeners should be moved if necessary to clear sign bracket connection plates.



GIRDER A2
Spans A12 thru A14

Notes:
All Longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 192.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffener, Connection Plate Details and Table I see Sheet No 348, 349, 350.
For Sign Bracket Detail see Sheet No. 360.

DESIGNED BY A.T.
DRAWN BY D.T.
CHECKED BY E.L.
APPROVED BY K.A.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS A1 AND A2
SPANS A12 THRU A14
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 126 OF 326

0141

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PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 17 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	31
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

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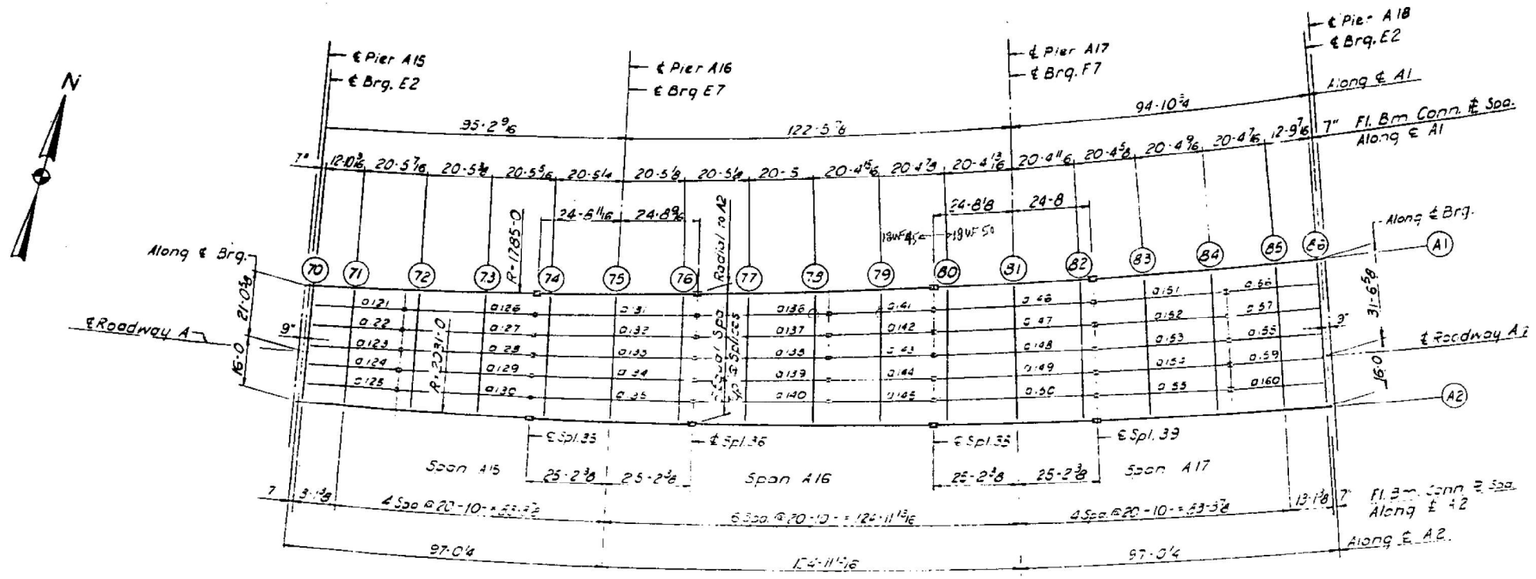
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVFBE-1	ST. CLAIR	247	67
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS A15 THRU A17

ELEVATION TOP OF GIRDER WEB

		GIR. A1	GIR. A2	DIFF.
CL. BRG.		448.646	451.610	2.964
FLOOR BEAM	70	448.648	451.613	2.965
FLOOR BEAM	71	448.685	451.678	2.993
FLOOR BEAM	72	448.745	451.781	3.036
FLOOR BEAM	73	448.805	451.885	3.080
SPLICE	35	448.852	451.966	3.114
FLOOR BEAM	74	448.864	451.988	3.124
FLOOR BEAM	75	448.918	452.091	3.173
FLOOR BEAM	76	448.972	452.195	3.223
SPLICE	36	448.983	452.216	3.233
FLOOR BEAM	77	449.021	452.298	3.277
FLOOR BEAM	78	449.070	452.401	3.331
FLOOR BEAM	79	449.119	452.505	3.387

		GR. A1	GIR. A2	DIFF
SPLICE	38	449.157	452.586	3.429
FLOOR BEAM	80	449.166	452.608	3.442
FLOOR BEAM	81	449.208	452.711	3.503
FLOOR BEAM	82	449.251	452.815	3.564
SPLICE	39	449.260	452.836	3.576
FLOOR BEAM	83	449.282	452.918	3.629
FLOOR BEAM	84	449.327	453.021	3.694
FLOOR BEAM	85	449.364	453.125	3.761
FLOOR BEAM	86	449.387	453.190	3.803
CL. BRG.		449.388	453.192	3.804

Note:

Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see sketch Sheet No. 183

BILL OF MATERIAL		
*Structural Steel	Lbs.	497,150

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 10,700 Lbs.

FOR INFORMATION ONLY

DESIGNED BY R.J.P.
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
FRAMING PLAN
SPANS A15 THRU A17
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVFBE-1

H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS

SHEET 197 OF 326

0141

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 18 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	32
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

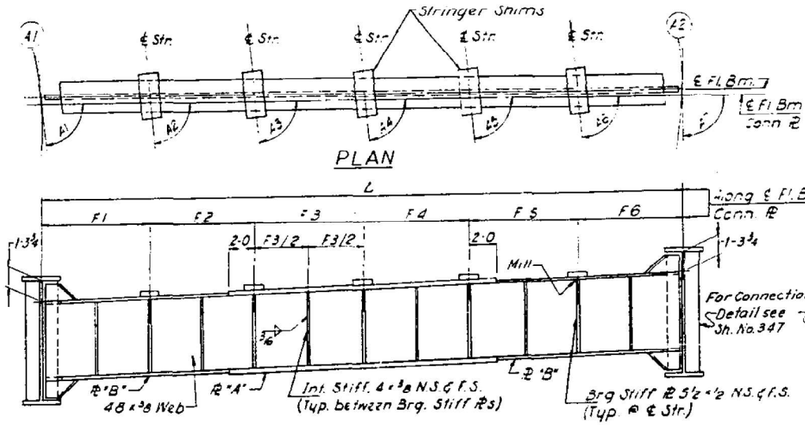
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF & E-1	ST. CLAIR	247	68
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

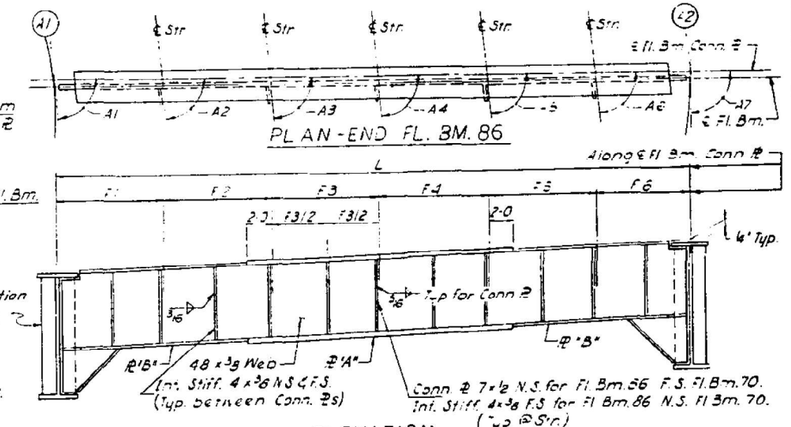
STRINGER DIMENSIONS

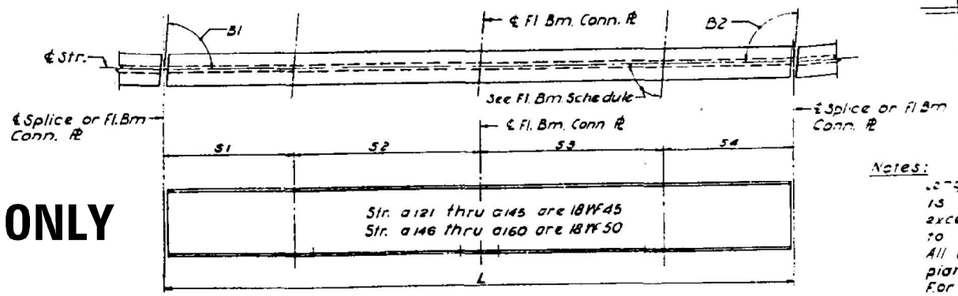
STR #	L	S1	S2	S3	S4	B1	B2
121	29'-1 5/16"	12'-10 3/4"			16'-2 9/16"	88°20'11"	90°47'30"
122	29 2 7/16	12 11 1/4			16 3 1/8	88.34.53	90.32.48
123	29 3 1/2	12 11 13/16			16 3 3/4	88.49.28	90.18.12
124	29 4 5/8	13 5/16			16 4 5/16	89.03.59	90.03.42
125	29 5 13/16	13 13/16			16 4 15/16	89.18.23	89.49.17
126	41 3/16	4 3 5/8	20 6 1/8		16 2 7/16	88.06.22	90.43.07
127	41 1 11/16	4 3 3/4	20 6 7/8		16 3 1/16	88.22.14	90.27.14
128	41 3 1/4	4 3 15/16	20 7 5/8		16 3 11/16	88.38.01	90.11.28
129	41 4 13/16	4 4 1/8	20 8 7/16		16 4 5/16	88.53.41	89.55.48
130	41 6 3/8	4 4 1/4	20 9 3/16		16 4 15/16	89.09.16	89.40.13
131	49 7 1/16	4 3 5/8	20 6	20 5 7/8	4 3 9/16	87.51.27	90.43.15
132	49 9	4 3 3/4	20 6 13/16	20 6 11/16	4 3 3/4	88.08.51	90.25.51
133	49 10 15/16	4 3 15/16	20 7 9/16	20 7 1/2	4 3 7/8	88.26.09	90.08.33
134	50 13/16	4 4 1/16	20 8 3/8	20 8 5/16	4 4 1/16	88.43.19	89.51.22
135	50 2 13/16	4 4 1/4	20 9 3/16	20 9 1/8	4 4 1/4	89.00.23	89.34.18
136	40 11 11/16	16 2 3/8	20 5 13/16		4 3 1/2	87.51.22	90.58.07
137	41 1 5/16	16 3	20 6 5/8		4 3 11/16	88.10.17	90.39.12
138	41 2 15/16	16 3 5/8	20 7 7/16		4 3 7/8	88.29.05	90.20.24
139	41 4 9/16	16 4 1/4	20 8 1/4		4 4 1/16	88.47.46	90.01.43
140	41 6 1/4	16 4 7/8	20 9 1/8		4 4 1/4	89.06.19	89.43.10
141	32 4 7/16	16 2 1/4			16 2 3/16	87.52.44	91.11.32
142	32 5 3/4	16 2 7/8			16 2 13/16	88.12.53	90.51.23
143	32 7 1/16	16 3 9/16			16 3 1/2	88.32.64	90.31.22
144	32 8 3/8	16 4 3/16			16 4 3/16	88.52.47	90.11.29
145	32 9 3/4	16 4 7/8			16 4 7/8	89.12.31	89.51.45
146	49 6 3/16	4 3 5/16	20 5 11/16	20 5 1/2	4 3 7/16	87.31.15	91.03.26
147	49 8 1/4	4 3 11/16	20 6 1/2	20 6 3/8	4 3 5/8	87.52.46	90.41.55
148	49 10 5/16	4 3 7/8	20 7 3/8	20 7 1/4	4 3 13/16	88.14.09	90.20.33
149	50 7/16	4 4 1/16	20 8 3/16	20 8 1/8	4 4	88.35.22	89.59.20
150	50 2 9/16	4 4 1/4	20 9 1/16	20 9 1/16	4 4 1/4	88.56.26	89.36.16
151	40 10 7/8	16 2 1/16	20 5 3/8		4 3 7/16	87.31.19	91.18.10
152	41 5/8	16 2 3/4	20 6 1/4		4 3 5/8	87.54.20	90.55.09
153	41 2 7/16	16 3 7/16	20 7 3/16		4 3 13/16	88.17.11	90.32.18
154	41 4 1/4	16 4 1/8	20 8 1/8		4 4	88.39.52	90.09.37
155	41 6 1/16	16 4 13/16	20 9		4 4 3/16	89.02.23	89.47.06
156	29	16 1 15/16			12 10 1/16	87.35.57	91.31.44
157	29 1 5/16	16 2 5/8			12 10 11/16	88.00.07	91.07.33
158	29 2 11/16	16 3 5/16			12 11 3/8	88.24.07	90.43.34
159	29 4 1/8	16 4 1/16			13	88.47.55	90.19.45
160	29 5 1/2	16 4 13/16			13 11/16	89.11.32	89.56.08

FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	F4	F5	F6	A1	A2	A3	A4	A5	A6	A7	Plate A Top & Bot	Plate B Top & Bot
70	37'-13/16"	6'-2 1/8"	6'-2 1/8"	6'-2 1/8"	6'-2 1/8"	6'-2 1/8"	6'-2 1/8"	88°33.20"	88°20.11"	88°34.53"	88°49.28"	89°03.59"	89°18.23"	89°57.44	12"x7/8"	12"x7/8"
71	37 4 5/8	6 2 1/16	6 2 13/16	6 2 13/16	6 2 13/16	6 2 13/16	6 3 7/16	88.33.03	88.44.38	88.59.20	89.13.56	89.28.26	89.42.51	90.00.00	12x1/8	12"x7/8
72	37 11	6 3 5/16	6 3 13/16	6 3 13/16	6 3 13/16	6 3 13/16	6 4 5/16	88.28.55	88.13.46	88.29.38	88.45.24	89.01.05	89.16.39	90.00.00	12x1/4	12"x1
73	38 5 5/8	6 3 5/8	6 4 15/16	6 4 15/16	6 4 15/16	6 4 15/16	6 6 3/16	88.24.48	88.49.01	89.04.54	89.20.40	89.36.20	89.51.55	90.00.00	12x1/4	12"x1
74	39 9/16	6 5 7/16	6 6 1/8	6 6 1/8	6 6 1/8	6 6 1/8	6 6 11/16	88.20.41	87.56.51	88.16.15	88.33.32	88.50.43	89.07.47	90.00.00	12x1 3/8	12x1 1/8
75	39 7 13/16	6 5 1/4	6 7 5/16	6 7 5/16	6 7 5/16	6 7 5/16	6 9 3/16	88.16.35	88.34.06	88.51.30	89.08.48	89.25.58	89.43.03	90.00.00	12x1 3/8	12x1 1/8
76	40 3 5/16	6 7 15/16	6 8 9/16	6 8 9/16	6 8 9/16	6 8 9/16	6 9 3/16	88.12.30	89.09.22	89.26.46	89.44.03	90.01.14	90.18.18	90.00.00	12x1 3/8	12x1 1/4
77	40 11 1/8	6 8 9/16	6 9 7/8	6 9 7/8	6 9 7/8	6 9 7/8	6 11 1/8	88.08.25	88.19.14	88.38.09	88.56.57	89.15.38	89.34.11	90.00.00	12x1 3/8	12x1 1/8
78	41 7 1/4	6 10 11/16	6 11 3/16	6 11 3/16	6 11 3/16	6 11 3/16	6 11 11/16	88.04.21	88.54.29	89.13.25	89.32.13	89.50.53	90.09.26	90.00.00	12x1/2	12x1/4
79	42 3 5/8	6 11 3/4	7 5/8	7 5/8	7 5/8	7 5/8	7 1 7/16	88.00.18	88.20.36	88.40.45	89.00.46	89.20.39	89.40.23	90.00.00	12x1/2	12x1/4
80	43 5/16	7 1 7/16	7 2 1/16	7 2 1/16	7 2 1/16	7 2 1/16	7 2 5/8	87.56.16	87.38.39	88.00.10	88.21.32	88.42.45	89.03.49	90.00.00	12x1/2	12x1/4
81	43 9 1/4	7 1 1/2	7 3 9/16	7 3 9/16	7 3 9/16	7 3 9/16	7 5 7/16	87.52.14	88.13.55	88.35.26	88.56.48	89.18.01	89.39.05	90.00.00	12x5/8	12x1/2
82	44 6 1/2	7 4 7/16	7 5 1/16	7 5 1/16	7 5 1/16	7 5 1/16	7 5 11/16	87.48.13	88.49.10	89.10.41	89.32.03	89.53.16	90.14.20	90.00.00	12x5/8	12x1/2
83	45 4	7 5 3/8	7 6 11/16	7 6 11/16	7 6 11/16	7 6 11/16	7 7 15/16	87.44.13	87.59.11	88.22.12	88.45.03	89.07.44	89.30.15	90.00.00	12x3/4	12x1/2
84	46 1 13/16	7 7 13/16	7 8 5/16	7 8 5/16	7 8 5/16	7 8 5/16	7 8 13/16	87.40.14	88.34.26	88.57.27	89.20.18	89.43.00	90.05.31	90.00.00	12x3/4	12x1/2
85	46 11 7/16	7 9 5/16	7 10	7 10	7 10	7 10	7 10 5/8	87.36.15	88.03.49	88.27.59	88.51.59	89.15.47	89.39.24	90.00.00	12x5/8	12x3/8
86	47 6 3/8	7 11 1/16	7 11 1/16	7 11 1/16	7 11 1/16	7 11 1/16	7 11 1/16	87.36.05	88.28.16	88.52.27	89.16.26	89.40.15	90.03.52	90.02.16	12x1/4	12x1







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DESIGNED BY A.T. & A.J.C.
DRAWN BY I.M.
CHECKED BY A.T.C.
APPROVED BY K.A.

Notes:
Length ℄ of Stringers and Fl. Bms. is correct as given in the table except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Intermediate Stiffener, Brg. Stiffener and Connection Plate Details see Sh. No. 348

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM
SCHEDULE
SPANS A15 THRU A17
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1
H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET 139 OF 336

0141

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USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 19 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	33
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I - 70	82-3HVF&E-1	ST. CLAIR	247	69
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 71	T1	T2	T3	T4
STR.				
121	1	7/16	1 1/16	1/2
122	1	7/16	1 1/16	1/2
123	1	7/16	1 1/16	1/2
124	1	3/8	1 1/8	1/2
125	1	3/8	1 1/8	1/2

FLOOR BEAM 72	T1	T2	T3	T4
STR.				
126	1	7/16	1 1/16	1/2
127	1	7/16	1 1/16	1/2
128	1	3/8	1 1/8	1/2
129	1	3/8	1 1/8	1/2
130	1	3/8	1 1/8	1/2

FLOOR BEAM 73	T1	T2	T3	T4
STR.				
126	1	7/16	1 1/16	1/2
127	1	7/16	1 1/16	1/2
128	1	7/16	1 1/16	1/2
129	1	3/8	1 1/8	1/2
130	1	3/8	1 1/8	1/2

FLOOR BEAM 74	T1	T2	T3	T4
STR.				
131	1	7/16	1 1/16	1/2
132	1	7/16	1 1/16	1/2
133	1	7/16	1 1/16	1/2
134	1	3/8	1 1/8	1/2
135	1	3/8	1 1/8	1/2

FLOOR BEAM 75	T1	T2	T3	T4
STR.				
131	1	7/16	1 1/16	1/2
132	1	7/16	1 1/16	1/2
133	1	7/16	1 1/16	1/2
134	1	3/8	1 1/8	1/2
135	1	3/8	1 1/8	1/2

FLOOR BEAM 76	T1	T2	T3	T4
STR.				
131	1	7/16	1 1/16	1/2
132	1	7/16	1 1/16	1/2
133	1	7/16	1 1/16	1/2
134	1	3/8	1 1/8	1/2
135	1	3/8	1 1/8	1/2

FLOOR BEAM 77	T1	T2	T3	T4
STR.				
136	1	7/16	1 1/16	1/2
137	1	7/16	1 1/16	1/2
138	1	7/16	1 1/16	1/2
139	1	3/8	1 1/8	1/2
140	1	3/8	1 1/8	1/2

FLOOR BEAM 78	T1	T2	T3	T4
STR.				
136	1	7/16	1 1/16	1/2
137	1	7/16	1 1/16	1/2
138	1	7/16	1 1/16	1/2
139	1	3/8	1 1/8	1/2
140	1	3/8	1 1/8	1/2

FLOOR BEAM 79	T1	T2	T3	T4
STR.				
141	1	7/16	1 1/16	1/2
142	1	7/16	1 1/16	1/2
143	1	7/16	1 1/16	1/2
144	1	3/8	1 1/8	1/2
145	1	3/8	1 1/8	1/2

FLOOR BEAM 80	T1	T2	T3	T4
STR.				
146	1	7/16	1 1/16	1/2
147	1	7/16	1 1/16	1/2
148	1	7/16	1 1/16	1/2
149	1	3/8	1 1/8	1/2
150	1	3/8	1 1/8	1/2

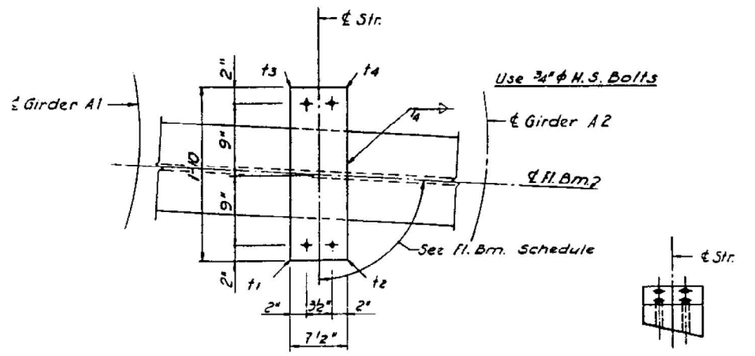
FLOOR BEAM 81	T1	T2	T3	T4
STR.				
146	1	7/16	1 1/16	1/2
147	1	7/16	1 1/16	1/2
148	1	7/16	1 1/16	1/2
149	1	3/8	1 1/8	1/2
150	1	3/8	1 1/8	1/2

FLOOR BEAM 82	T1	T2	T3	T4
STR.				
146	1	7/16	1 1/16	1/2
147	1	7/16	1 1/16	1/2
148	1	7/16	1 1/16	1/2
149	1	3/8	1 1/8	1/2
150	1	3/8	1 1/8	1/2

FLOOR BEAM 83	T1	T2	T3	T4
STR.				
151	1	7/16	1 1/16	1/2
152	1	7/16	1 1/16	1/2
153	1	7/16	1 1/16	1/2
154	1	7/16	1 1/16	1/2
155	1	3/8	1 1/8	1/2

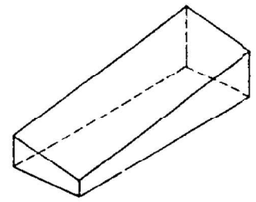
FLOOR BEAM 84	T1	T2	T3	T4
STR.				
151	1	7/16	1 1/16	1/2
152	1	7/16	1 1/16	1/2
153	1	7/16	1 1/16	1/2
154	1	7/16	1 1/16	1/2
155	1	3/8	1 1/8	1/2

FLOOR BEAM 85	T1	T2	T3	T4
STR.				
156	1	7/16	1 1/16	1/2
157	1	7/16	1 1/16	1/2
158	1	7/16	1 1/16	1/2
159	1	7/16	1 1/16	1/2
160	1	3/8	1 1/8	1/2

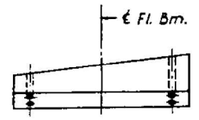


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

DESIGNED BY A.J.C.
DRAWN BY I.M.
CHECKED BY A.S.
APPROVED BY K.A.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

STRINGER SHIMS

SPANS A15 THRU A17

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

FAI RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 199 OF 526

0141

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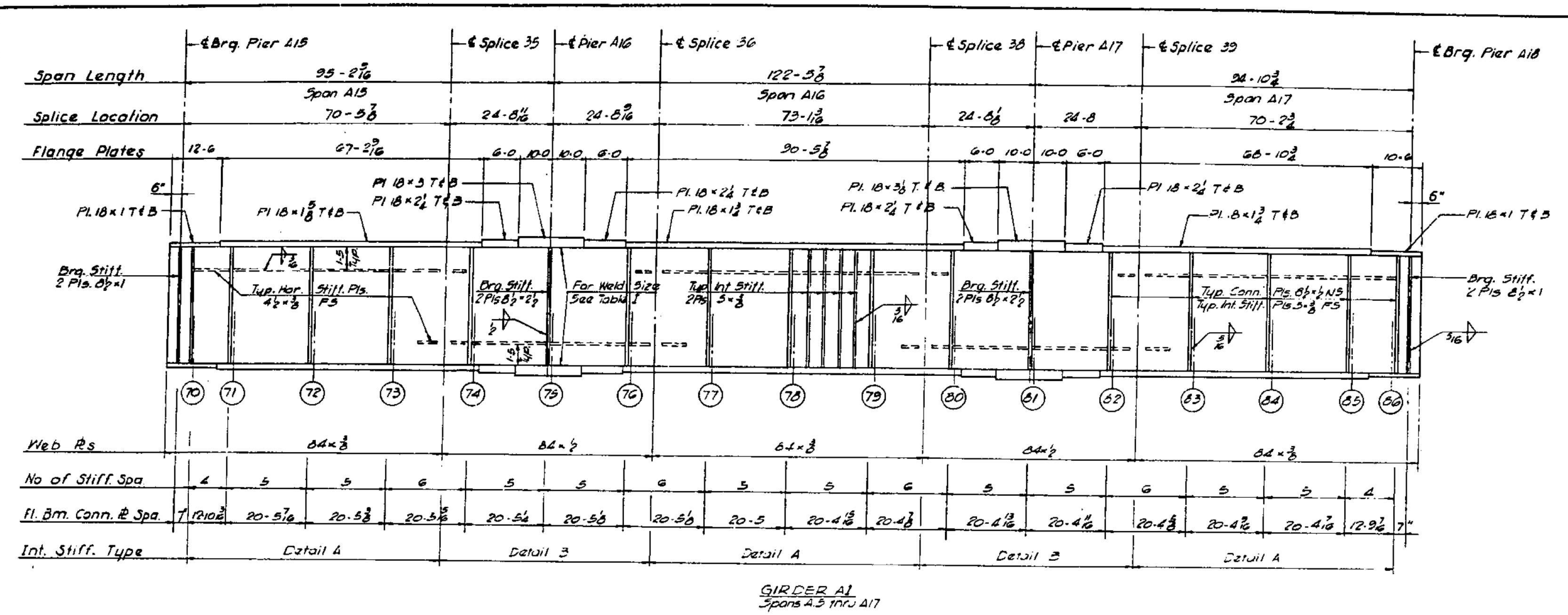
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

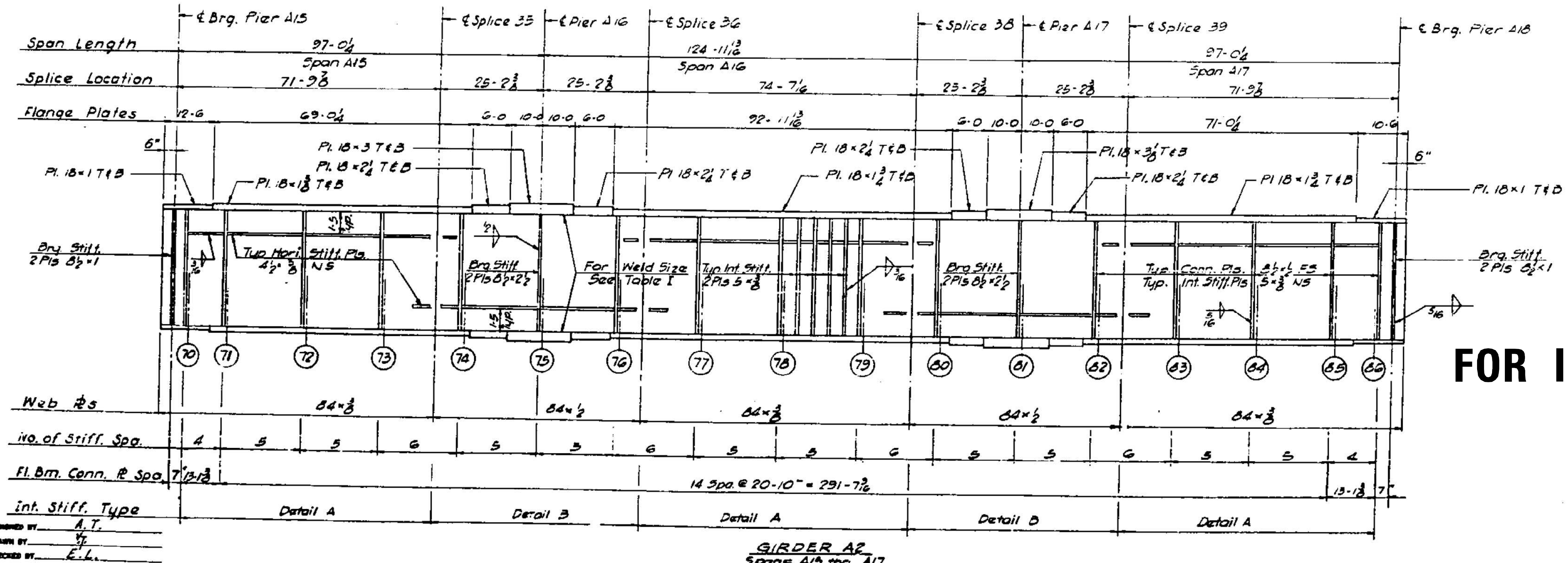
SCALE: NTS | SHEET 20 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	34
		CONTRACT NO. 76P10		
ILLINOIS	FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-I	ST. CLAIR	247	70
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A15 thru A17



GIRDER A2
Spans A15 thru A17

Notes:
All Longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 197.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splices, Stiffeners, Connection Plate Details and Table I see Sheet No. 348, 349, 350.

DESIGNED BY A.T.
DRAWN BY V.T.
CHECKED BY E.L.
APPROVED BY K.A.

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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS A1 AND A2
SPANS A15 THRU A17
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-I

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET

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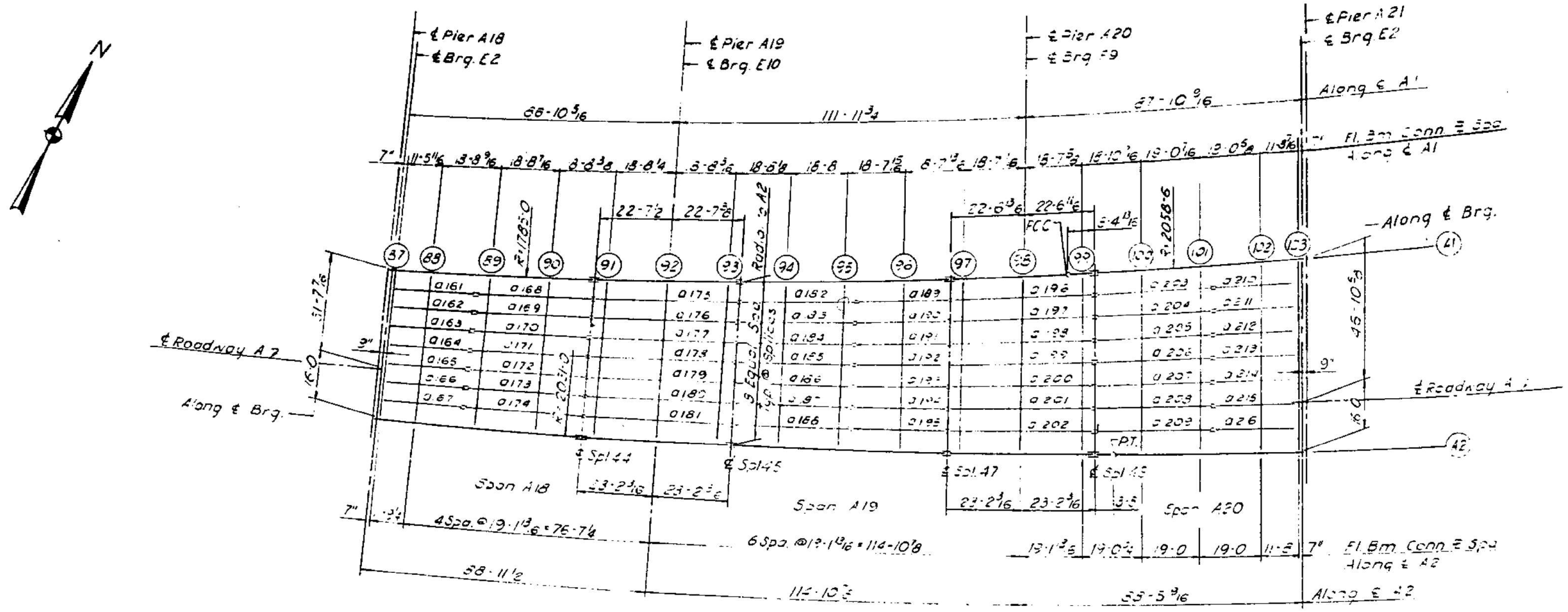
USER NAME = hughesrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE 082-0141	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	35
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76P10				
PLOT DATE = 3/22/2021	DATE -	REVISED -		SCALE: NTS SHEET 21 OF 25 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-70	82-3HVF&E-I	ST. CLAIR	247	71
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



PLAN

SPANS A18 THRU A20

ELEVATION TOP OF GIRDER WEB

		GIR. A1	GIR. A2	DIFF.			GIR. A1	GIR. A2	DIFF.
CL. BRG.		449.391	453.200	3.809	SPLICE	47	450.165	454.401	4.236
FLOOR BEAM	87	449.391	453.203	3.812	FLOOR BEAM	97	450.266	454.450	4.184
FLOOR BEAM	88	449.409	453.261	3.852	FLOOR BEAM	98	450.744	454.682	3.938
FLOOR BEAM	89	449.437	453.356	3.919	FLOOR BEAM	99	451.221	454.914	3.693
FLOOR BEAM	90	449.466	453.451	3.985	SPLICE	48	451.322	454.963	3.641
SPLICE	44	449.488	453.526	4.038	FLOOR BEAM	100	451.749	455.298	3.549
FLOOR BEAM	91	449.496	453.548	4.052	FLOOR BEAM	101	452.294	455.722	3.428
FLOOR BEAM	92	449.530	453.654	4.124	FLOOR BEAM	102	452.839	456.145	3.306
FLOOR BEAM	93	449.564	453.759	4.195	FLOOR BEAM	103	453.173	456.406	3.233
SPLICE	45	449.571	453.781	4.210	CL. BRG.		453.190	456.419	3.229
FLOOR BEAM	94	449.703	453.918	4.215					
FLOOR BEAM	95	449.869	454.091	4.222					
FLOOR BEAM	96	450.034	454.265	4.231					

Note: Dimensions locating Floor Beams are given to the Floor Beam Conn. Plate see sketch Sheet No. 183

BILL OF MATERIAL		
*Structural Steel	Lbs.	572,430

*Weight of Bearing Assemblies with Lead Plates and Anchor Bolts are Included as Structural Steel Est. Wt. 15,290 Lbs.

DESIGNED BY R.M.R.
DRAWN BY I.M.
CHECKED BY A.J.C.
APPROVED BY K.A.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

FRAMING PLAN
SPANS A18 THRU A20
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO SECTION 82-3HVF&E-I
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
SHEET 201 of 526

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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 3/22/2021	DATE -	REVISED -		SCALE: NTS SHEET 22 OF 25 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	36
CONTRACT NO. 76P10				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 70	82-3HVF&E-1	ST. CLAIR	247	72
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

STRINGER DIMENSIONS

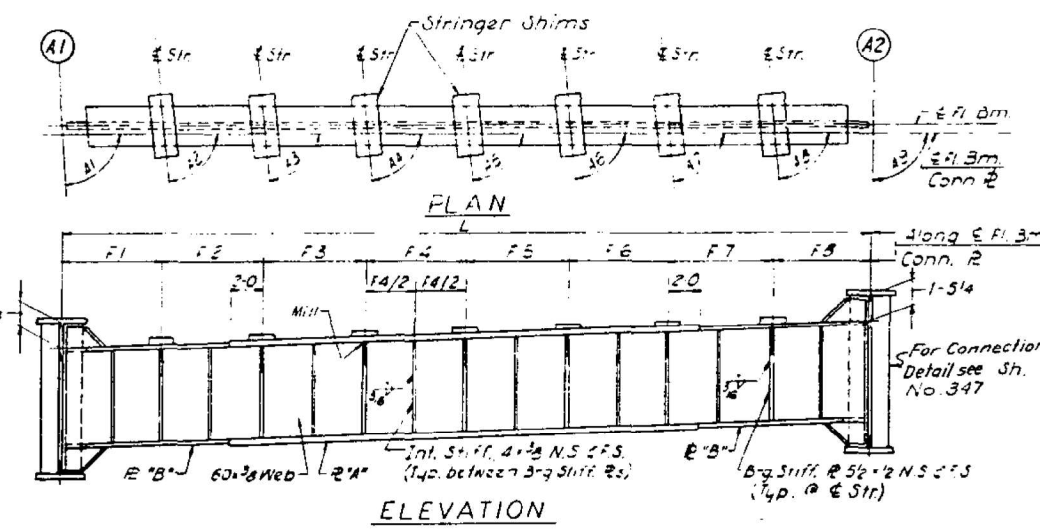
STR.	L	S1	S2	S3	S4	B1	B2
161	26'-3 7/8"	11'-6 1/8"	O	O	14'-9 3/4"	87°24'44"	91°47'30"
162	26 4 13/16	11 6 9/16	|	|	14 10 1/4	87.43.41	91.28.33
163	26 5 3/4	11 7	|	|	14 10 3/4	88.02.31	91.09.43
164	26 6 3/4	11 7 7/16	|	|	14 11 5/16	88.21.14	90.51.00
165	26 7 11/16	11 7 7/8	|	|	14 11 13/16	88.39.50	90.32.23
166	26 8 11/16	11 8 5/16	|	|	15 3/8	88.58.20	90.13.54
167	26 9 11/16	11 8 3/4	O	|	15 7/8	89.16.43	89.55.31
168	37 6 1/8	3 11 7/16	18 9 1/8	|	14 9 5/8	87.11.59	91.43.11
169	37 7 7/16	3 11 9/16	18 9 3/4	|	14 10 1/8	87.31.42	91.23.28
170	37 8 3/4	3 11 11/16	18 10 7/16	|	14 10 11/16	87.51.18	91.03.52
171	37 10 1/8	3 11 13/16	18 11 1/16	|	14 11 3/16	88.10.47	90.44.23
172	37 11 7/16	3 11 15/16	18 11 3/4	|	14 11 3/4	88.30.10	90.25.01
173	38 13/16	4 1/8	19 7/16	|	15 5/16	88.49.25	90.05.45
174	38 2 3/16	4 1/4	19 1 1/8	O	15 7/8	89.08.34	89.46.37
175	45 4 1/2	3 11 3/8	18 9	18 8 13/16	3 11 5/16	86.58.15	91.43.16
176	45 6 1/8	3 11 1/2	18 9 5/8	18 9 1/2	3 11 7/16	87.18.59	91.22.32
177	45 7 13/16	3 11 11/16	18 10 5/16	18 10 3/16	3 11 5/8	87.39.36	91.01.55
178	45 9 7/16	3 11 13/16	18 11	18 10 7/8	3 11 3/4	88.00.05	90.41.26
179	45 11 3/16	3 11 15/16	18 11 11/16	18 11 5/8	3 11 15/16	88.20.26	90.21.05
180	46 7/8	4 1/16	19 3/8	19 5/16	4 1/16	88.40.40	90.00.51
181	46 2 5/8	4 1/4	19 1 1/16	19 1 1/16	4 1/4	89.00.47	89.40.44
182	37 5 7/16	14 9 1/2	18 8 11/16	O	3 11 1/4	86.58.14	91.56.56
183	37 6 13/16	14 10 1/16	18 9 3/8	|	3 11 7/16	87.19.59	91.35.11
184	37 8 1/4	14 10 9/16	18 10 1/16	|	3 11 9/16	87.41.35	91.13.35
185	37 9 11/16	14 11 1/2	18 10 13/16	|	3 11 3/4	88.03.04	90.52.07
186	37 11 1/8	14 11 11/16	18 11 9/16	|	3 11 7/8	88.24.24	90.30.46
187	38 5/8	15 1/4	19 5/16	|	4 1/16	88.45.36	90.09.34
188	38 2 1/8	15 7/8	19 1 1/16	|	4 1/4	89.06.40	89.48.31
189	29 6 9/16	14 9 3/8	|	|	14 9 1/4	86.59.34	92.09.15
190	29 7 11/16	14 9 15/16	|	|	14 9 13/16	87.22.07	91.46.42
191	29 8 7/8	14 10 1/2	|	|	14 10 3/8	87.44.32	91.24.17
192	29 10 1/16	14 11 1/16	|	|	14 11	88.06.48	91.02.01
193	29 11 1/4	14 11 5/8	|	|	14 11 9/16	88.28.55	90.39.54
194	30 7/16	15 1/4	|	|	15 3/16	88.50.54	90.17.55
195	30 1 5/8	15 13/16	O	O	15 13/16	89.12.44	89.56.05
196	45 3 1/4	3 11 5/16	18 8 1/2	18 8 5/16	3 11 3/16	86.40.01	92.01.30
197	45 5 1/16	3 11 7/16	18 9 3/16	18 9 1/16	3 11 3/8	87.03.27	91.38.04
198	45 6 7/8	3 11 9/16	18 9 15/16	18 9 13/16	3 11 1/2	87.26.44	91.14.48
199	45 8 3/4	3 11 3/4	18 10 11/16	18 10 9/16	3 11 11/16	87.49.51	90.51.40
200	45 10 5/8	3 11 7/8	18 11 7/16	18 11 3/8	3 11 7/8	88.12.49	90.28.43
201	46 1/2	4 1/16	19 1/4	19 3/16	4 1/16	88.35.37	90.05.54
202	46 2 7/16	4 1/4	19 1	19 1	4 3/16	88.58.16	89.43.15
203	37 11 7/8	14 11 1/2	19 5/16	O	4 1/16	86.48.15	93.05.33
204	37 11 7/8	14 11 9/16	19 1/4	|	4 1/16	87.14.48	92.38.59
205	37 11 7/8	14 11 11/16	19 3/16	|	4 1/16	87.41.22	92.12.25
206	37 11 15/16	14 11 13/16	19 1/8	|	4	88.07.56	91.45.52
207	38	14 11 15/16	19 1/16	|	4	88.34.29	91.19.18
208	38 1/16	15 1/16	19	|	4	89.01.02	90.52.45
209	38 3/16	15 3/16	19	|	4	89.27.34	90.26.13
210	26 8 3/4	15 7/16	O	|	11 8 5/16	86.06.58	93.53.01
211	26 8 9/16	15 5/16	|	|	11 8 1/4	86.40.12	93.19.48
212	26 8 3/8	15 3/16	|	|	11 8 1/8	87.13.26	92.46.34
213	26 8 1/4	15 1/8	|	|	11 8 1/16	87.46.43	92.13.17
214	26 8 1/8	15 1/16	|	|	11 8 1/16	88.20.01	91.39.59
215	26 8 1/16	15 1/16	|	|	11 8	88.53.20	91.06.40
216	26 8	15	O	O	11 8	89.26.40	90.33.20

DESIGNED BY A.T. & A.J.C.
DRAWN BY I.M.
CHECKED BY A.A.
APPROVED BY K.A.

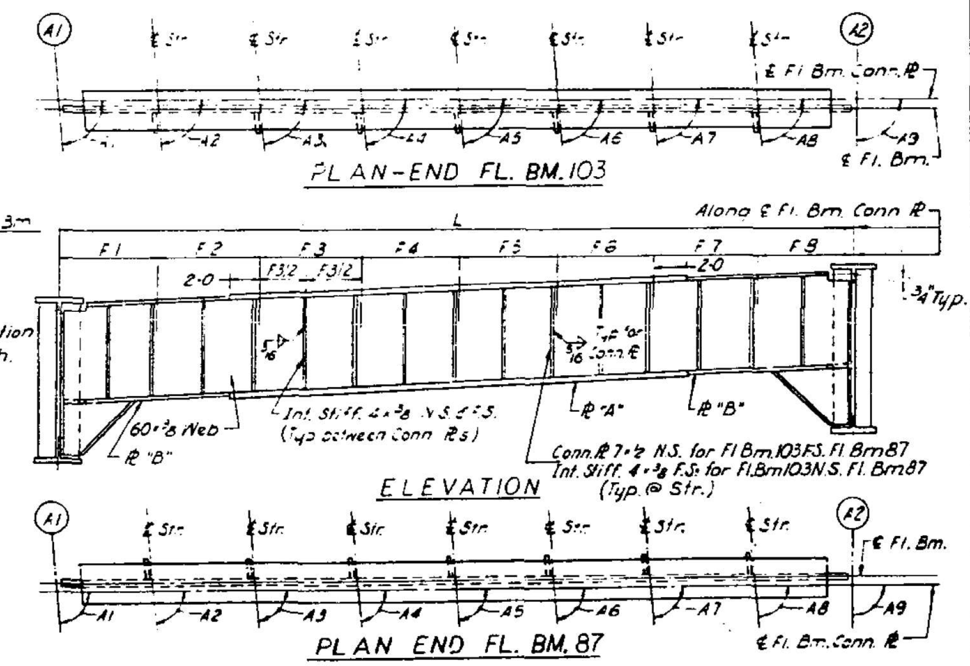
FLOOR BEAM DIMENSIONS

FL BM	L	F1	F2	F3	F4	F5	F6	F7	F8
87	47'-7 11/16"	5'-11 7/16"	5'-11 7/16"	5'-11 7/16"	5'-11 7/16"	5'-11 7/16"	5-11 7/16"	5 11 7/16"	5-11 7/16"
88	48 1 5/8	5 11 5/8	6 3/16	6 3/16	6 3/16	6 3/16	6 3/16	6 3/16	6 3/4
89	48 11 1/2	6 1	6 1 7/16	6 1 7/16	6 1 7/16	6 1 7/16	6 1 7/16	6 1 7/16	6 1 7/8
90	49 9 9/16	6 1 9/16	6 2 11/16	6 2 11/16	6 2 11/16	6 2 11/16	6 2 11/16	6 2 11/16	6 3 3/4
91	50 7 7/8	6 3 7/16	6 4	6 4	6 4	6 4	6 4	6 4	6 4 1/2
92	51 6 3/8	6 3 5/8	6 5 5/16	6 5 5/16	6 5 5/16	6 5 5/16	6 5 5/16	6 5 5/16	6 6 7/8
93	52 5 3/16	6 6 1/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 6 5/8	6 7 1/8
94	53 4 3/16	6 6 15/16	6 8 1/16	6 8	6 8	6 8	6 8	6 8	6 9 1/16
95	54 3 3/8	6 9	6 9 7/16	6 9 7/16	6 9 7/16	6 9 7/16	6 9 7/16	6 9 7/16	6 9 13/16
96	55 2 13/16	6 10 1/8	6 10 7/8	6 10 7/8	6 10 7/8	6 10 7/8	6 10 7/8	6 10 7/8	6 11 9/16
97	56 2 1/2	6 11 3/4	7 5/16	7 5/16	7 5/16	7 5/16	7 5/16	7 5/16	7 13/16
98	57 2 3/8	7 1/8	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 1 13/16	7 3 3/8
99	58 2 1/2	7 2 13/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 5/16	7 3 13/16
100	59 3 1/8	7 4	7 5	7 5	7 5	7 5	7 5	7 5	7 5 1/16
101	60 5 13/16	7 6 3/8	7 6 3/4	7 6 3/4	7 6 3/4	7 6 3/4	7 6 3/4	7 6 3/4	7 6 13/16
102	61 10 5/8	7 8 3/8	7 8 7/8	7 8 7/8	7 8 7/8	7 8 7/8	7 8 7/8	7 8 7/8	7 8 7/8
103	62 10	7 10 1/4	7 10 1/4	7 10 1/4	7 10 1/4	7 10 1/4	7 10 1/4	7 10 1/4	7 10 1/4

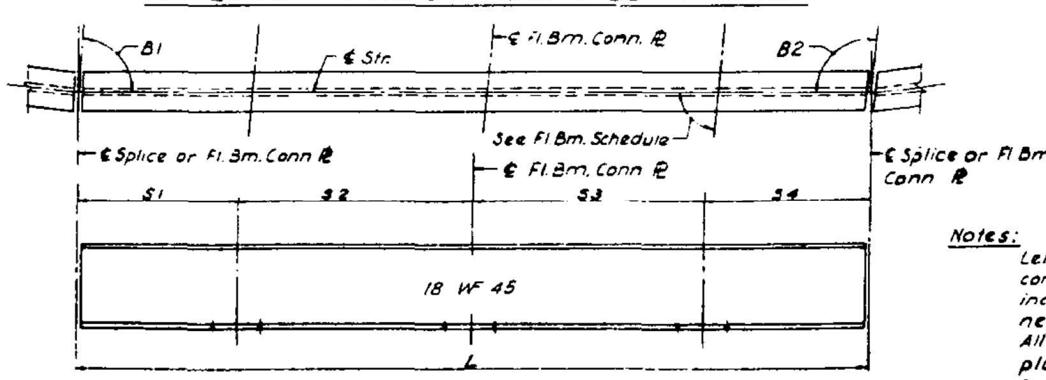
FL BM	A1	A2	A3	A4	A5	A6	A7	A8	A9	Plate A Top & Bot.	Plate B Top & Bot.
87	87°30'56"	87°24'44"	87°43'41"	88°02'31"	88°21'14"	88°39'50"	88°58'20"	89°16'43"	89°57'44"	12" × 1 1/8"	12" × 3/4"
88	87.31.01	87.46.54	88.05.51	88.24.41	88.43.25	89.02.01	89.20.31	89.38.54	90.00.00	12 × 1 1/4	12 × 3/4
89	87.27.24	87.18.48	87.38.31	87.58.07	88.17.37	88.36.58	88.56.14	89.15.23	90.00.00	12 × 1 3/8	12 × 7/8
90	87.23.48	87.51.13	88.10.56	88.30.32	88.50.02	89.09.24	89.28.39	89.47.48	90.00.00	12 × 1 3/8	12 × 7/8
91	87.20.12	87.05.05	87.25.49	87.46.25	88.06.54	88.27.16	88.47.30	89.07.36	90.00.00	12 × 1 3/8	12 × 7/8
92	87.16.37	87.37.30	87.58.14	88.18.50	88.39.19	88.59.41	89.19.55	89.40.01	90.00.00	12 × 1 1/2	12 × 1
93	87.13.04	88.09.54	88.30.39	88.51.15	89.11.44	89.32.06	89.52.20	90.12.26	90.00.00	12 × 1 1/2	12 × 1
94	87.09.30	87.23.50	87.45.34	88.07.11	88.28.39	88.49.59	89.11.11	89.32.15	90.00.00	12 × 1 1/2	12 × 1
95	87.05.58	87.56.14	88.17.59	88.39.36	89.01.04	89.22.24	89.43.36	90.04.40	90.00.00	12 × 1 1/2	12 × 1
96	87.02.27	87.25.10	87.47.43	88.10.08	88.32.24	88.54.31	89.16.29	89.38.19	90.00.00	12 × 1 5/8	12 × 1 1/8
97	86.58.57	86.46.51	87.10.16	87.33.33	87.56.40	88.19.38	88.42.27	89.05.06	90.00.00	12 × 1 5/8	12 × 1 1/8
98	86.55.28	87.19.16	87.42.41	88.05.58	88.29.05	88.52.03	89.14.51	89.37.30	90.00.00	12 × 1 3/4	12 × 1 1/4
99	86.53.08	87.51.40	88.15.06	88.38.23	89.01.30	89.24.28	89.47.16	90.09.55	90.00.00	12 × 1 3/4	12 × 1 1/4
100	86.34.39	86.54.27	87.21.01	87.47.35	88.14.08	88.40.42	89.07.15	89.33.47	90.00.00	12 × 1 7/8	12 × 1 3/8
101	86.02.52	86.54.27	87.21.01	87.47.35	88.14.08	88.40.42	89.07.15	89.33.47	90.00.00	12 × 1 7/8	12 × 1 3/8
102	85.31.03	86.06.59	86.40.12	87.13.26	87.46.43	88.20.01	88.53.20	89.26.40	90.00.00	12 × 1 3/4	12 × 1 1/4
103	85.11.30	86.06.59	86.40.12	87.13.26	87.46.43	88.20.01	88.53.20	89.26.40	90.00.00	12 × 1 3/8	12 × 7/8



INTERIOR FLOOR BEAM 88 THRU 102



END FLOOR BEAM 87 AND 103



TYPICAL STRINGER

Notes:
Length L of Stringers and Fl. Bms. is correct as given in the table, except the increment lengths are given to the nearest 1/16".
All dimensions are in the horizontal plane.
For Intermediate Stiffener, Brg. Stiffener and Connection Plate Details see Sh. No. 348.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
STRINGER AND FLOOR BEAM SCHEDULE
SPANS A18 THRU A20
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"
F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1
H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
SHEET 232 of 526

FOR INFORMATION ONLY

0141

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A I - 70	82-3HVFBE-1	ST. CLAIR	247	73
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

FLOOR BEAM 88 THRU 90	T1	T2	T3	T4
STR. 161 THRU 174	1 3/16	5/8	1 1/4	11/16

FLOOR BEAM 91 THRU 93	T1	T2	T3	T4
STR. 175 THRU 181	1 3/16	5/8	1 1/4	11/16

FLOOR BEAM 94 THRU 96	T1	T2	T3	T4
STR. 182 THRU 195	1 1/8	9/16	1 5/16	3/4

FLOOR BEAM 97	T1	T2	T3	T4
STR.				
196	15/16	3/8	1 1/2	15/16
197	1	7/16	1 7/16	7/8
198	1	7/16	1 7/16	7/8
199	1	7/16	1 7/16	7/8
200	1	1/2	1 3/8	7/8
201	1 1/16	1/2	1 3/8	13/16
202	1 1/16	1/2	1 3/8	13/16

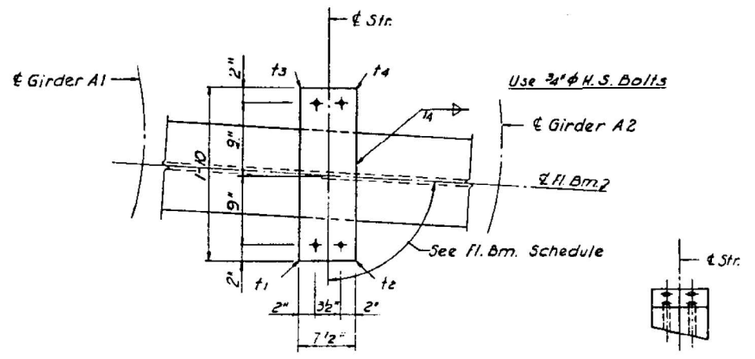
FLOOR BEAM 98	T1	T2	T3	T4
STR.				
196	15/16	7/16	1 7/16	15/16
197	15/16	7/16	1 7/16	15/16
198	1	7/16	1 7/16	7/8
199	1	1/2	1 3/8	7/8
200	1	1/2	1 3/8	7/8
201	1	1/2	1 3/8	7/8
202	1 1/16	1/2	1 3/8	13/16

FLOOR BEAM 99	T1	T2	T3	T4
STR.				
196	15/16	7/16	1 7/16	15/16
197	15/16	7/16	1 7/16	15/16
198	15/16	1/2	1 3/8	15/16
199	1	1/2	1 3/8	7/8
200	1	1/2	1 3/8	7/8
201	1	1/2	1 3/8	7/8
202	1	9/16	1 5/16	7/8

FLOOR BEAM 100	T1	T2	T3	T4
STR.				
203	7/8	7/16	1 7/16	1
204	7/8	7/16	1 7/16	1
205	7/8	7/16	1 7/16	1
206	7/8	7/16	1 7/16	1
207	7/8	7/16	1 7/16	1
208	7/8	7/16	1 7/16	1
209	15/16	7/16	1 7/16	15/16

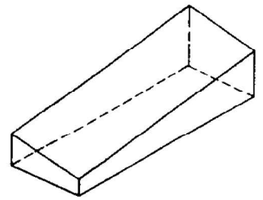
FLOOR BEAM 101	T1	T2	T3	T4
STR.				
203	7/8	7/16	1 7/16	1
204	7/8	7/16	1 7/16	1
205	7/8	7/16	1 7/16	1
206	7/8	7/16	1 7/16	1
207	7/8	7/16	1 7/16	1
208	7/8	7/16	1 7/16	1
209	7/8	1/2	1 3/8	1

FLOOR BEAM 102	T1	T2	T3	T4
STR.				
210	13/16	7/16	1 7/16	1 1/16
211	13/16	7/16	1 7/16	1 1/16
212	7/8	7/16	1 7/16	1
213	7/8	7/16	1 7/16	1
214	7/8	7/16	1 7/16	1
215	7/8	1/2	1 3/8	1
216	7/8	1/2	1 3/8	1

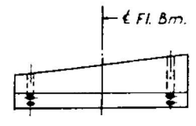


PLAN

END VIEW



ISOMETRIC VIEW



SIDE VIEW

SHIM DETAIL

Shim thickness t1, t2, t3 & t4 shown in the Table are orientated with the Plan View shown above.

FOR INFORMATION ONLY

DESIGNED BY A.J.C.
DRAWN BY I.M.
CHECKED BY A.S
APPROVED BY K.A

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

STRINGER SHIMS

SPANS A18 THRU A20

POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

FAI RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 203 of 526

0141

MODEL: \$MODELNAME\$
FILE NAME: z:\projects\dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\D8P10\CADData\CADSheets\D876P10-stt-typical.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

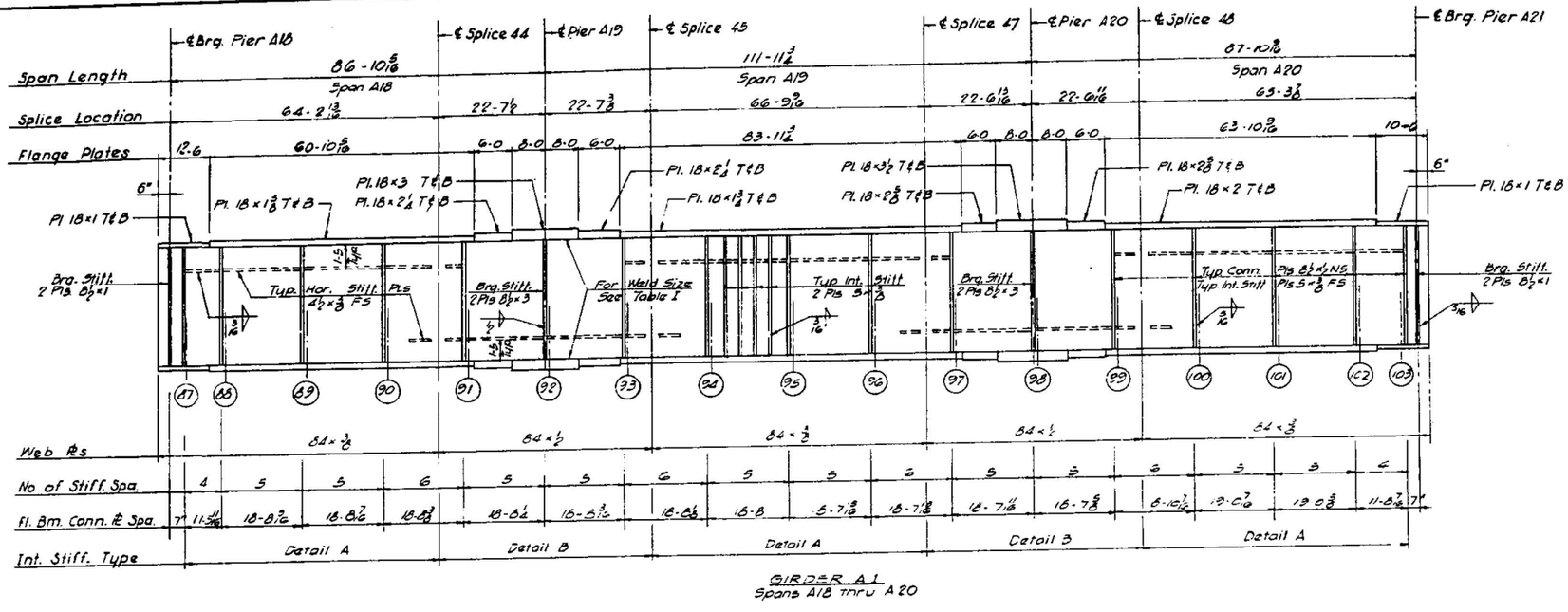
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

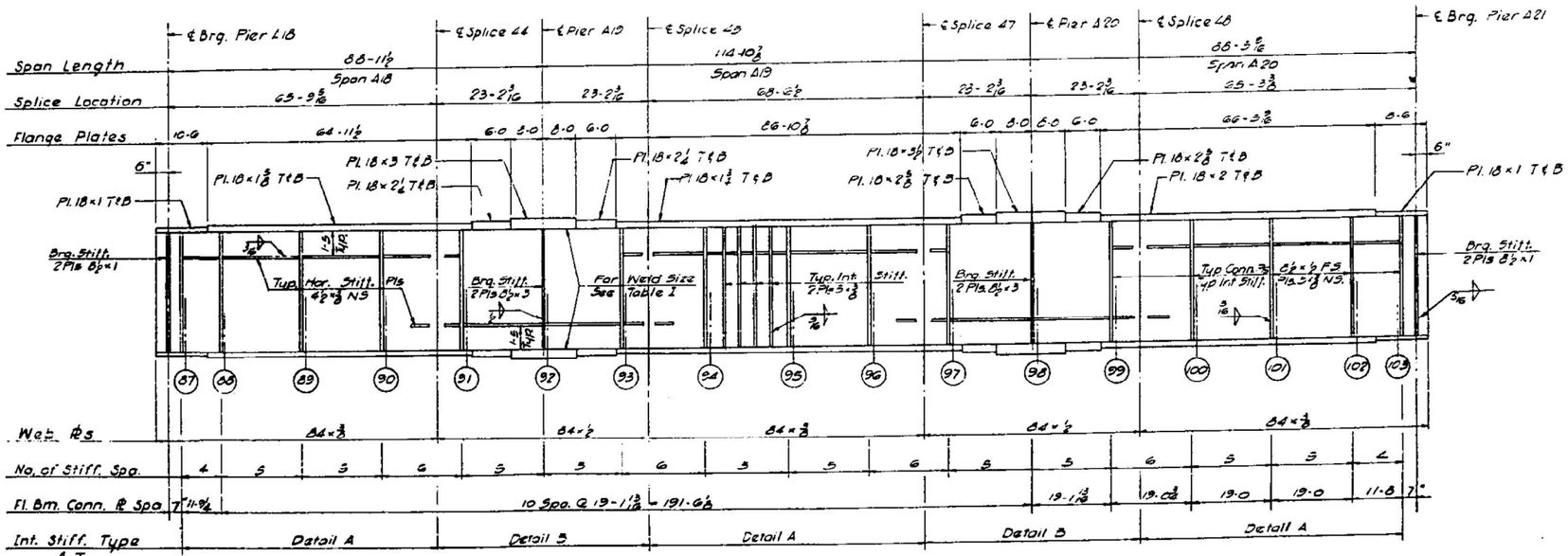
SCALE: NTS | SHEET 24 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	38
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	82-3HVF & E-1	ST. CLAIR	247	74
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		



GIRDER A1
Spans A18 thru A20



GIRDER A2
Spans A18 thru A20

Notes:
All Longitudinal Dimensions shown are given along ℄ of Web. See Sheet No. 201.
All Bearing Stiffeners and Connection Plates to be vertical.
For Splice, Stiffeners, Connection Plate Details and Table I see Sheet No. 348, 349, 350.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS

GIRDERS A1 AND A2
SPANS A18 THRU A20
POPLAR STREET BRIDGE APPROACHES
ROADWAY "A"

F.A.I. RT. 70 ST. CLAIR CO. SECTION 82-3HVF & E-1

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 25 OF 25 SHEETS

DESIGNED BY A.T.
DRAWN BY D.T.
CHECKED BY E.L.
APPROVED BY K.A.

0141

MODEL: sMODELNAMES
FILE NAME: pw:\\Autoroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D8P76P10\CADD\Cad\CAD Sheets\D8P76P10-sht-typical.cgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0141

SCALE: NTS | SHEET 25 OF 25 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	39
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	#	ST. CLAIR	163	99
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

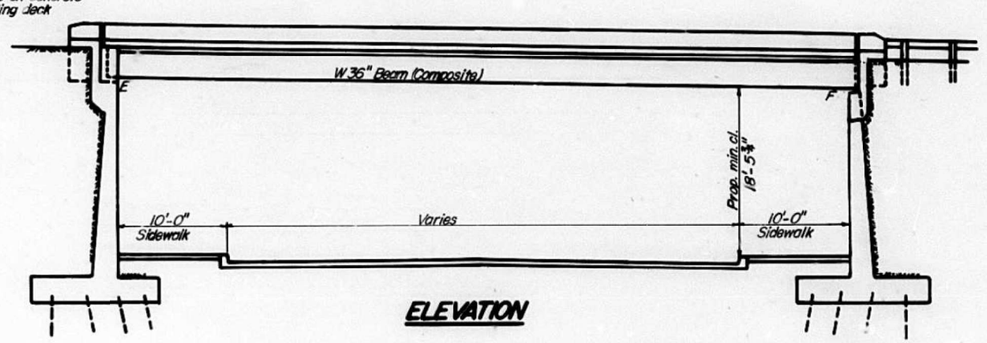
*B2(1,2)R-2 Sh. # 1 of 17 .

BM. 173 Concrete Monument 106' south of S.E. corner control tower for CSX Railroad 114' Lt. Sta. 63+84 — El. 428.63.

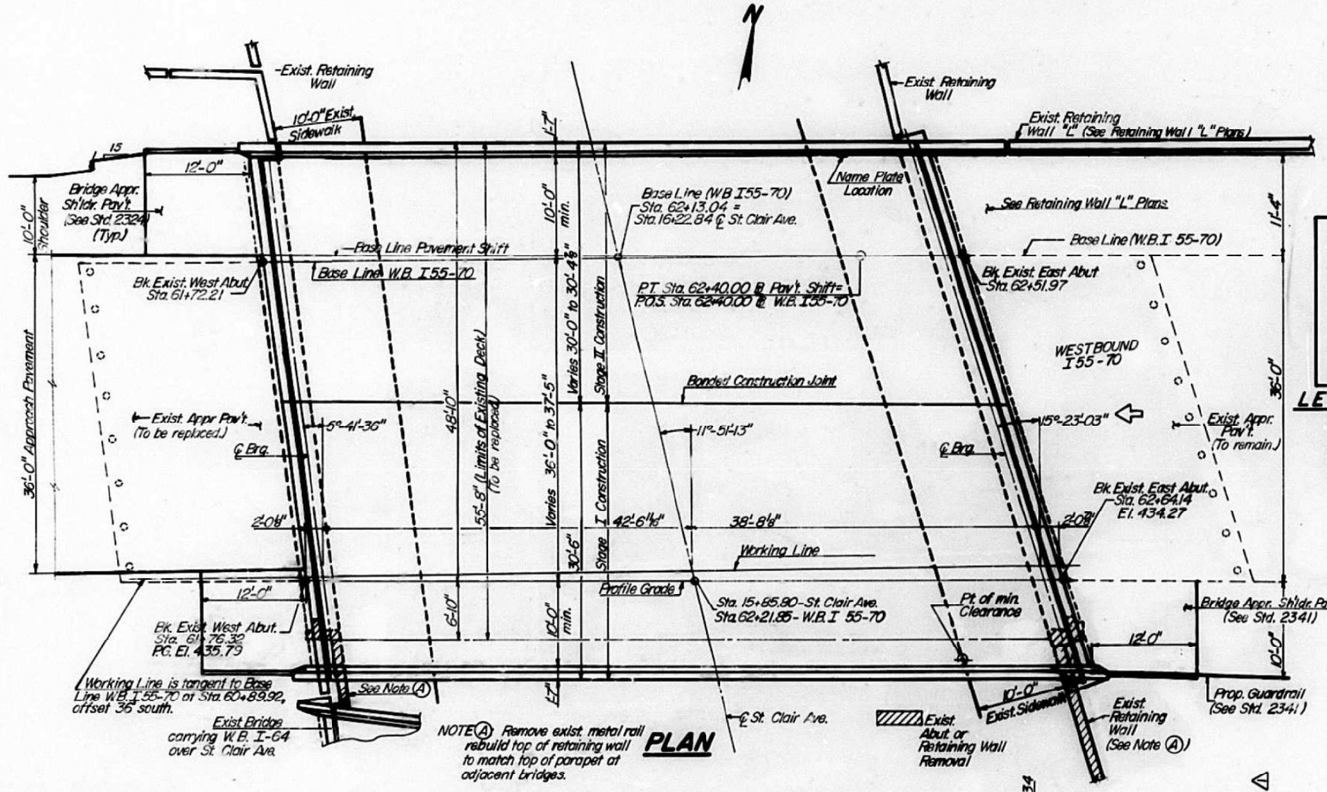
Existing Structure:
Simple span R.C. deck on 36 In. Wide Flange Beams, R.C. closed abutments on concrete filled metal shell piles. Existing deck to be replaced. Widen to the south.

No Salvage

CURVE DATA
PAVEMENT SHIFT
PI = 59+11.79
Δ = 2°-28'-32" Rt.
D = 0°-22'-38"
T = 328.31'
R = 15,194.16'
L = 656.52'
E = 3.55'



ELEVATION



NOTE (A) Remove exist. metal rail, rebuild top of retaining wall to match top of parapet at adjacent bridges.

PLAN

GENERAL NOTES

1. Construction Specifications: The 1988 edition of the State of Illinois Department of Transportation's "Standard Specifications for Road and Bridge Construction," addenda and the Special Provisions shall govern.
2. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
3. Plan dimensions and details relative to the existing structure have been taken from existing plans or from field surveys 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 scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. All transverse and longitudinal dimensions are measured horizontally.
5. All dimensions are measured at a temperature of 50° F.
6. The Contractor shall submit his proposed system to prevent debris from falling on the roadway below, for approval by the Engineer.
7. Calculated weight of Structural Steel = M 183 32,390 lbs. (New Steel).
8. The Lead and Chromate Free Alkyd paint system (except as noted) shall be used for painting new ~~and existing~~ structural steel. ~~The color of the final finish coat shall be~~ Interstate shop green (Munsell No. 7.5 (G.) 4/6). ~~Cleaning of the existing structural steel shall be by Method A. (See Special Provisions).~~
9. Field welding of construction accessories will not be permitted to the bottom flange of any beam. Field welding in other areas will be permitted only with the approval of the Engineer.
10. Anchor bolts shall be set before bolting diaphragms over supports.
11. The estimated abutment surface for Bridge Seat Sealer is 260 sq. ft.
12. The Contractor shall be responsible for the maintenance of the electrical lines attached to the existing abutments at all times.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
Engineer of Bridges and Structures

STATION 62+13.04
BUILT 199_ BY
STATE OF ILLINOIS
F.A.I. Rte. 70 SEC. 82-(1,2)R-2
FA PROJECT IR-000-5(22)
LOADING HS20 & ALT.
STR. NO. 082-0015

LETTERING FOR NAME PLATE
Standard 2113

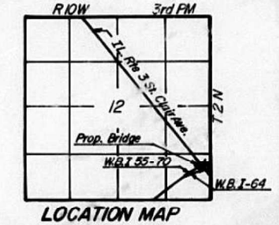
Existing Name Plate to be removed (Cost Incidental) and replaced with new Name Plate.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
Class X Concrete - Superstructure	Cu. Yds.	132.9	—	132.9
Class X Concrete	Cu. Yds.	—	17.8	17.8
Reinforcement Bars - Epoxy Coated	Lbs.	30,020	2,450	32,470
Concrete Removal	Cu. Yds.	—	11.2	11.2
Removal of Existing Concrete Deck	Each	1	—	1
Furnishing and Erecting Structural Steel	Lump Sum	0.2	—	0.2
Stud Shear Connectors (¾")	Each	174	—	174
Preformed Joint Seal 4"	Lin. Ft.	61.0	—	61.0
Preformed Joint Seal 1¾"	Lin. Ft.	64.0	—	64.0
Protective Coat*	Sq. Yds.	600	—	600
Name Plate	Each	1	—	1
Temporary Slab Support System	Each	1	—	1
Bridge Seat Sealer	Lump Sum	—	0.25	0.25
~~Cleaning and Painting Steel Bridge~~	~~Lump Sum~~	—	1	1
Temporary Bridge Rail	Lin. Ft.	82.5	—	82.5
Jack & Remove Existing Bearing	Each	9	—	9
Elastomeric Bearing Assembly Type I (Special)	Each	10	—	10

*Pay item "Protective Coat" includes deck area and inside areas and top of parapet.
For pay item "Temporary Concrete Barrier," see Roadway Plans.

INDEX OF SHEETS



LOCATION MAP

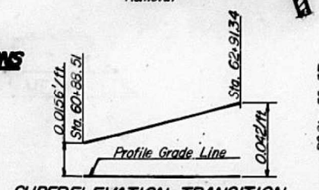
CURVE DATA
℄ WESTBOUND I-55/70
PI = 62+23.77
θe = 4°-26'-16" Rt.
Dc = 4°-22'-35"
Rc = 1,309.24'
Ls = 202.83'
L.T. = 135.26'
S.T. = 67.65'

DESIGN STRESSES

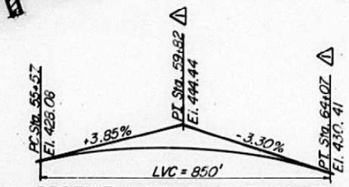
EXISTING	PROPOSED
fc = 1,400 psi (Super.)	f'c = 3,500 psi
fc = 1,000 psi (Sub.)	fy = 60,000 psi (Reinf.)
fs = 20,000 psi (Reinf.)	fy = 36,000 psi (Struct. Steel)
fs = 18,000 psi (Struct. Steel)	

DESIGN SPECIFICATIONS
AASHO 1958 (Existing)
AASHTO 1989 (Proposed)
1983 Seismic guide Specifications with 1985 Interim

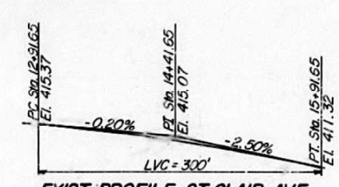
LOADING
Existing - H20-S16-44 and Alternate
Proposed - HS20-44 and Alternate
No allowance for future wearing surface.



SUPERELEVATION TRANSITION DIAGRAM



PROFILE - WESTBOUND FAI 55-70
PROFILE AT TOP OF PROPOSED DECK 36' RT. OF BASE LINE.



EXIST. PROFILE - ST. CLAIR AVE.

RUDOLPH A. SANDOVAL 2182 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS
Rudolph A. Sandoval
Oct 1, 1990

FOR INFORMATION ONLY

GENERAL PLAN & ELEVATION
W.B. I 55-70 over ST. CLAIR AVE.
SECTION 82(1,2)R-2
STA. 16+22.84 (ST. CLAIR AVE.)
STA. 62+13.04 (W.B. I 55-70)
ST. CLAIR COUNTY
STRUCTURE NO. 082-0015

SANDOVAL ENGINEERS, INC.

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

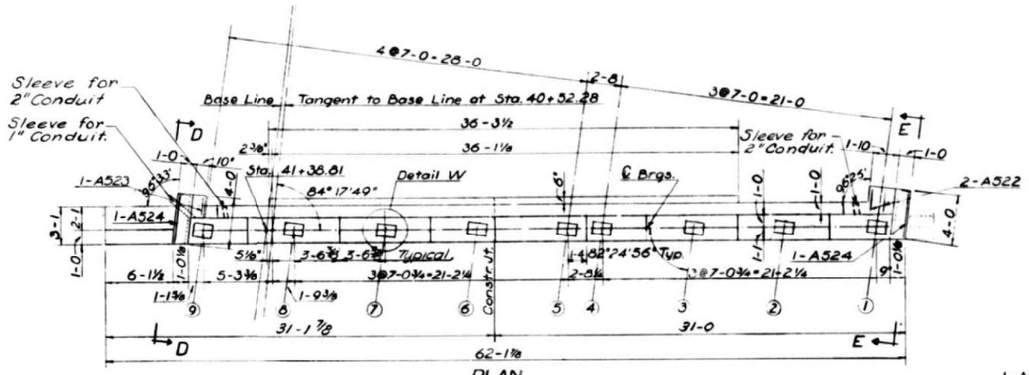
STRUCTURE 082-0015

SCALE: NTS | SHEET 1 OF 9 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	40
		CONTRACT NO. 76P10		
		ILLINOIS FED. AID PROJECT		

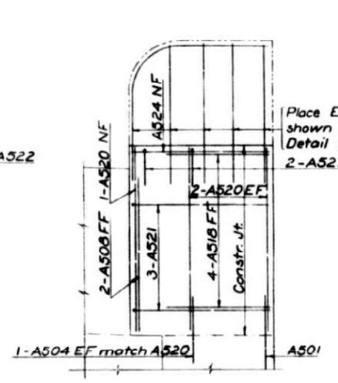
MODEL: $MODELNAME$
FILE NAME: pw:\\dmroom.dot.illinois.gov:PWDOTDocuments\IDOT Offices\District 8\Projects\D8 76P10 CADD\staCAD\sheets\D876P10-sht-typical.dgn

F.A.I. RTE.	SECT. NO.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-7	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	70 38	10
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

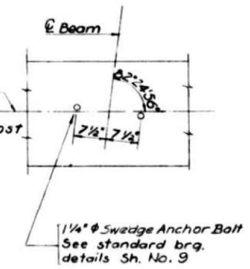


Elevations								
A	D	C	D	E	F	G	H	
436.46	437.89	435.39	437.01	434.25	435.25	431.07	436.98	90°

Bridge Seat Elevations									
9	8	7	6	5	4	3	2	1	
431.07	431.27	431.47	431.61	431.81	431.89	432.06	432.27	432.44	



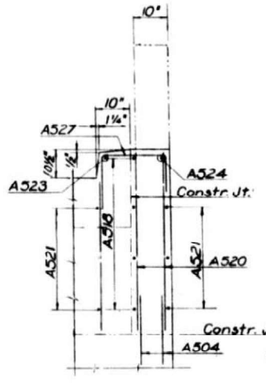
VIEW D-D



DETAIL W.

NOTE:
Place reinforcement to Clear anchor bolts.

NF indicates near face
FF " far "
EF " each "



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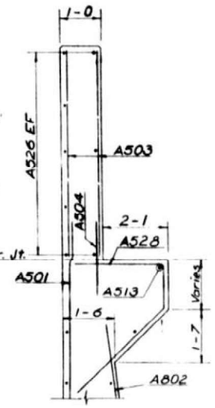

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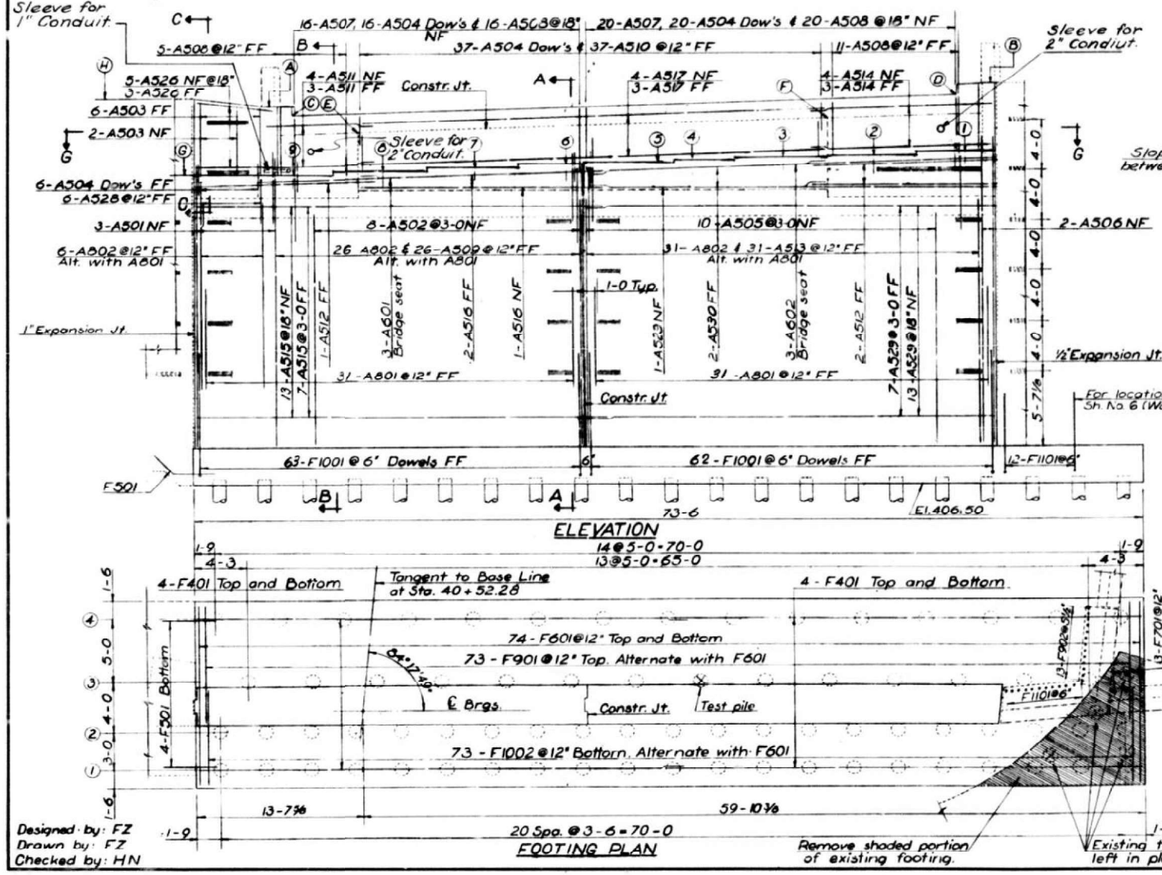

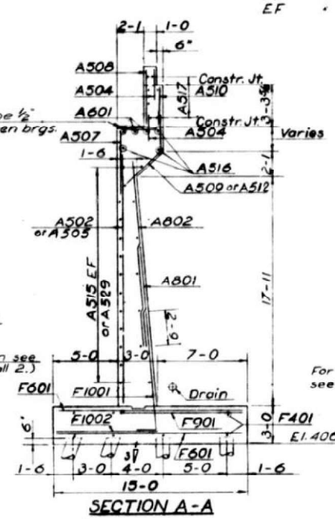

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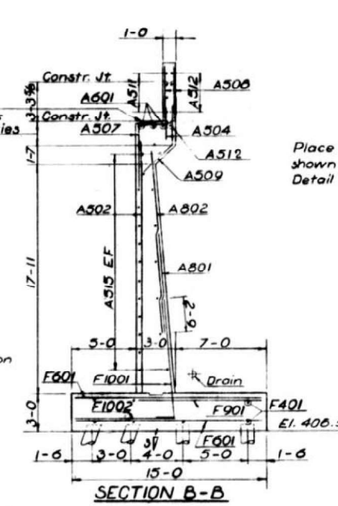
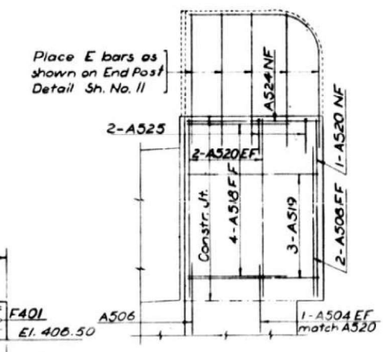
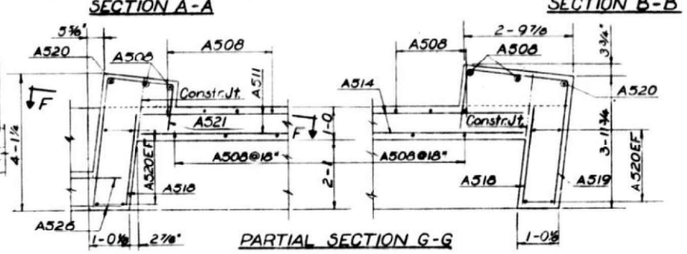


SECTION B-B



VIEW E-E



PARTIAL SECTION G-G

NOTE:
For constr. jt., expansion jt. and rustication details see Sh. No. 7.
For pile details see Sh. No. 13
For bill of material see Sh. No. 5.

For drain description see Sh. No. 4.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

WESTBOUND EXPRESSWAY
OVER ST. CLAIR AVE.
WEST ABUTMENT

BR 4

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

DATE: APRIL 1958

SHEET NO. 3

Designed by: FZ
Drawn by: FZ
Checked by: HN

Rev. 12-10-57. Revised curb ht. 9" to 10" WMB

FOR INFORMATION ONLY

USER NAME = hughesrd	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0015

SCALE: NTS | SHEET 2 OF 9 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	41
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

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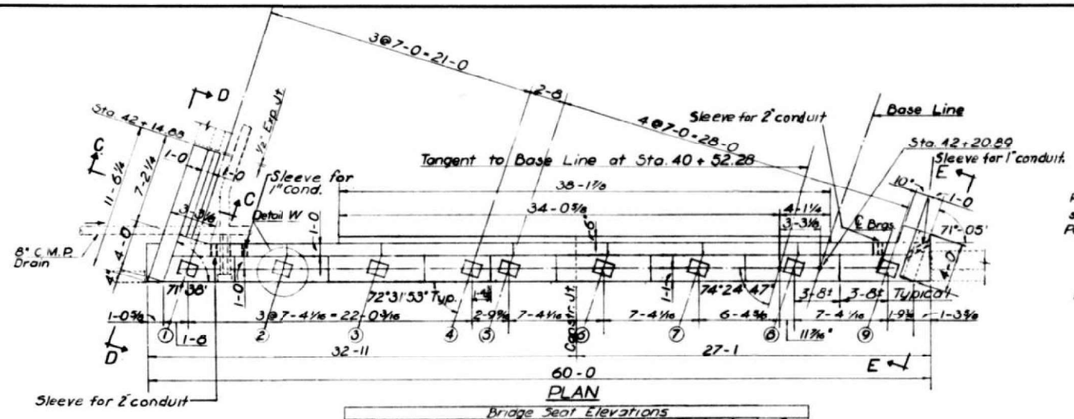
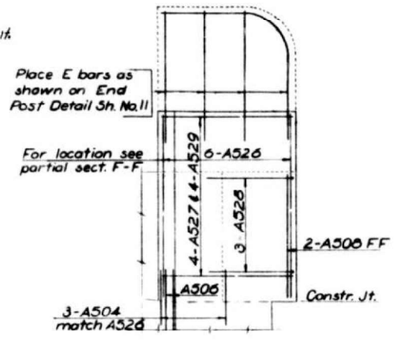
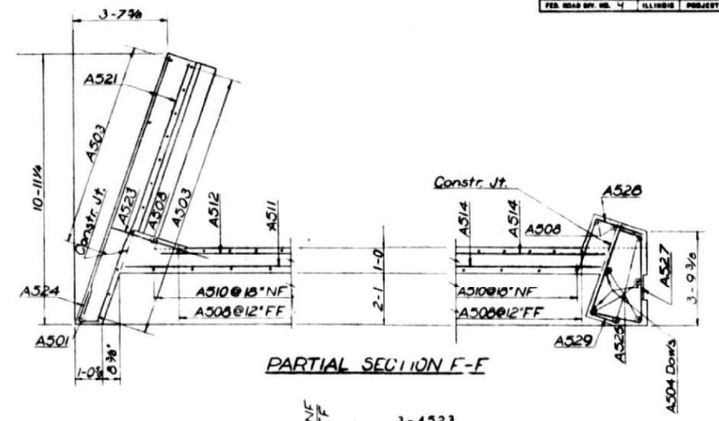
FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-7	82-2HB 82-3HF	ST. CLAIR	70 28	19 9
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT		

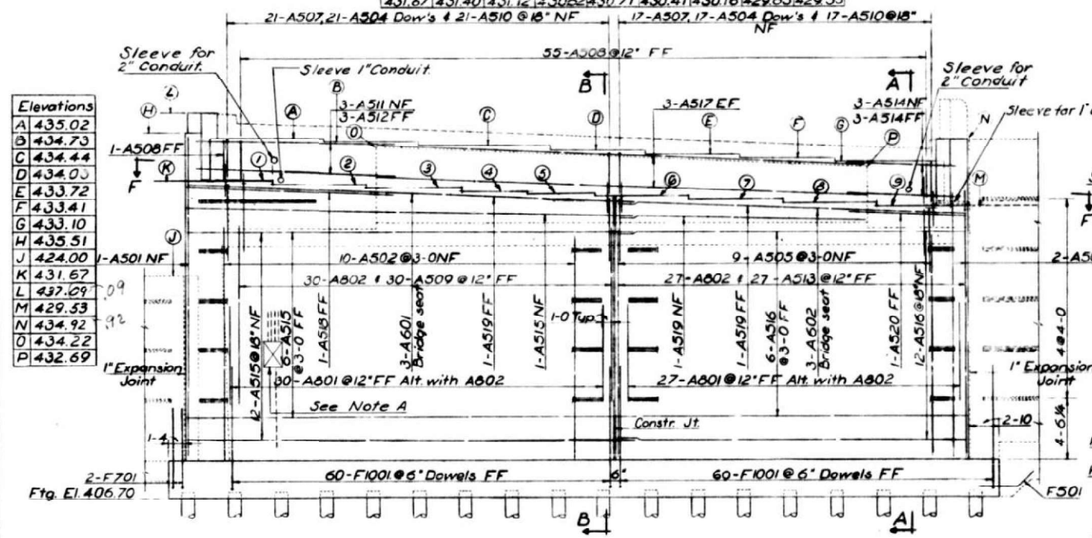


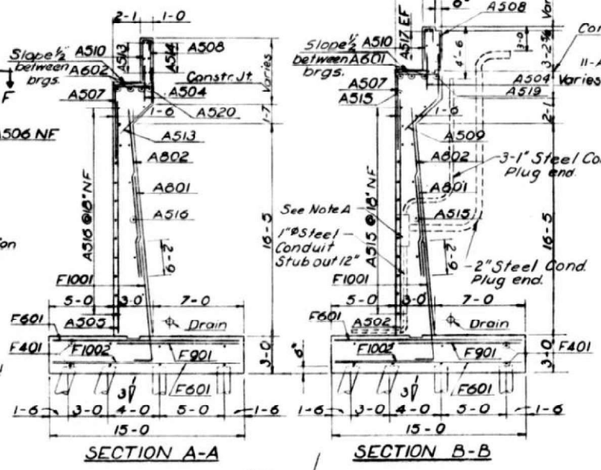


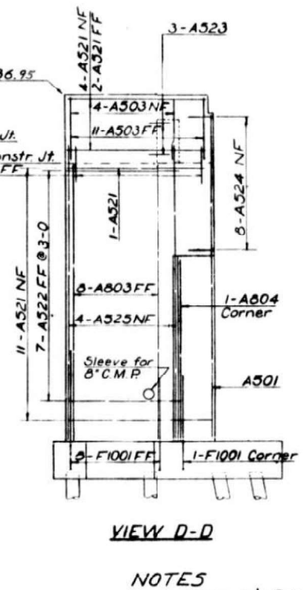


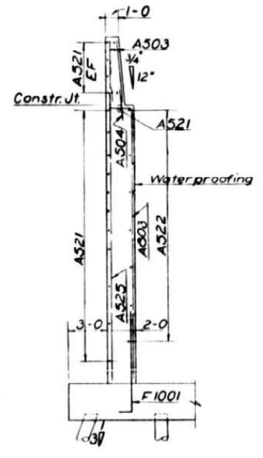
Elevations	
A	435.02
B	434.73
C	434.44
D	434.00
E	433.72
F	433.41
G	433.10
H	435.51
J	424.00
K	431.67
L	437.09
M	429.53
N	434.92
O	434.22
P	432.69

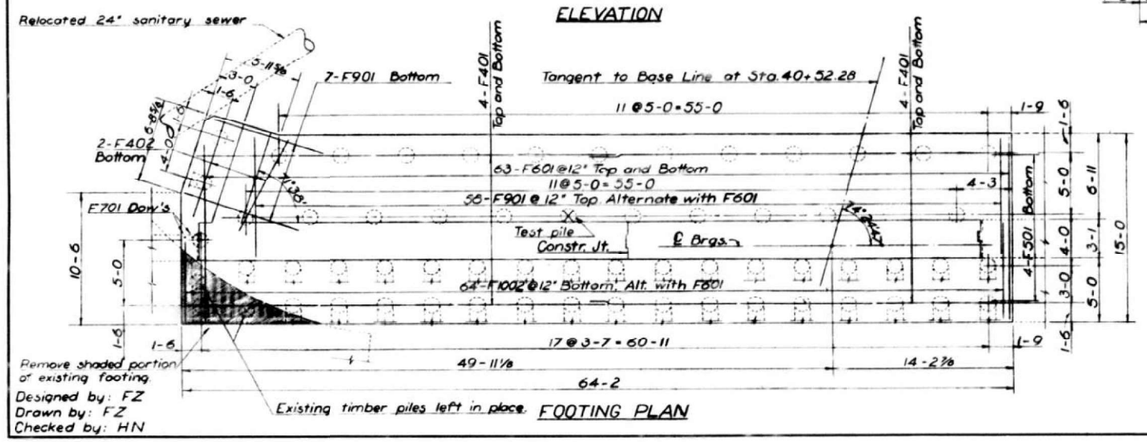
Bridge Seat Elevations								
1	2	3	4	5	6	7	8	9
431.67	431.40	431.12	430.82	430.71	430.41	430.16	429.85	429.53

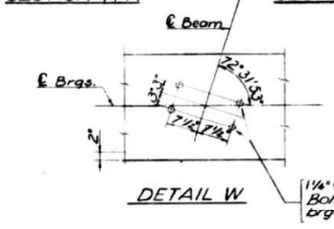












Designed by: FZ
Drawn by: FZ
Checked by: HN

Rev. 12-10-59. Rev'd elevations for chg's curb ht. 9" to 10" w.m.s.

NOTES:

For details of expansion, construction joints and horizontal rustications see Sh. No. 7.
For bill of material see Sh. No. 5.
For pile details see Sh. No. 13

Note A:
Recess formed opening for 4-20 Amp. - 2 pole ckt. brks. cabinet. Size of opening & method of installation to be approved by the Engineer.

DRAIN DESCRIPTION:
Use 8" corrugated metal pipe (perforated) encased in 6" gravel or crushed stone. (Typ.)
Cost of encasement shall be considered incidental to the cost of 8" perforated C.M.P.

NOTES
Place reinforcement to Clear anchor bolts
NF indicates near face
FF " far "
EF " each "

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

WESTBOUND EXPRESSWAY OVER ST CLAIR AVE
EAST ABUTMENT
BR 4

H W LOCHNER, INC.
ENGINEERS
DATE: APRIL 1958 CHICAGO, ILLINOIS SHEET NO 4

FOR INFORMATION ONLY

MODEL: SMODELNAME5
FILE NAME: pw:\dot.bmroom.dot.illinois.gov:PWDOT1Documents\IDOT Offices\District 8\Projects\D876P10\CADData\CADFiles\D876P10-sht-sys-kal.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0015

SCALE: NTS | SHEET 3 OF 9 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	42
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-7	82-2HB 82-2HF	ST. CLAIR	70 20	25 10
FED. ROAD DIST. NO. 4	ILLINOIS	PROJECT		

EAST ABUTMENT

MARK	NO. REQ'D	SIZE	LENGTH	SHAPE
F401	16	4	32-5	
F402	2	4	8-6	
F501	4	5	6-0	
F601	126	6	14-6	
F701	2	7	8-11	
F901	65	9	9-6	
F1001	28	10	11-7	
F1002	64	10	7-6	
A501	1	5	25-8	
A502	10	5	18-0	
A503	15	5	5-1	
A504	52	5	2-4	
A505	9	5	17-6	
A506	2	5	20-7	
A507	38	5	9-5	
A508	58	5	3-2	
A509	30	5	8-6	
A510	38	5	4-11	
A511	3	5	14-2	
A512	3	5	12-8	
A513	27	5	7-2	
A514	6	5	7-0	
A515	19	5	33-10	
A516	18	5	26-11	
A517	6	5	37-10	
A518	1	5	18-6	
A519	3	5	19-6	
A520	1	5	8-5	
A521	18	5	10-10	
A522	7	5	8-6	
A523	3	5	4-3	
A524	8	5	2-4	
A525	4	5	23-0	
A526	6	5	5-7	
A527	4	5	6-2	
A528	3	5	3-5	
A529	4	5	4-8	
A601	3	6	34-2	
A602	3	6	26-8	
A801	57	8	8-0	
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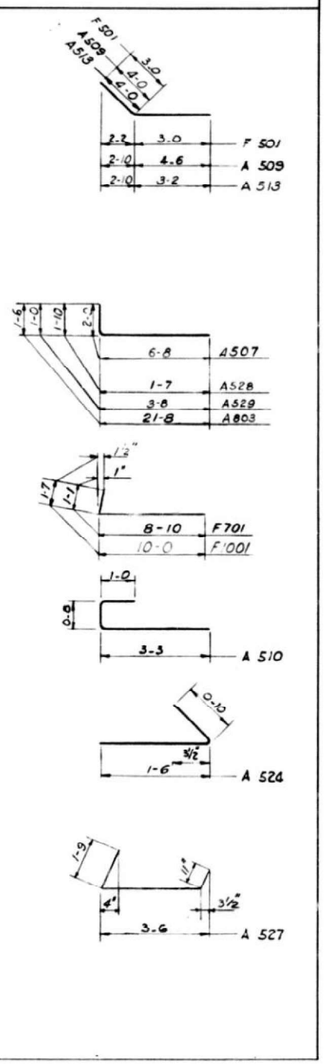
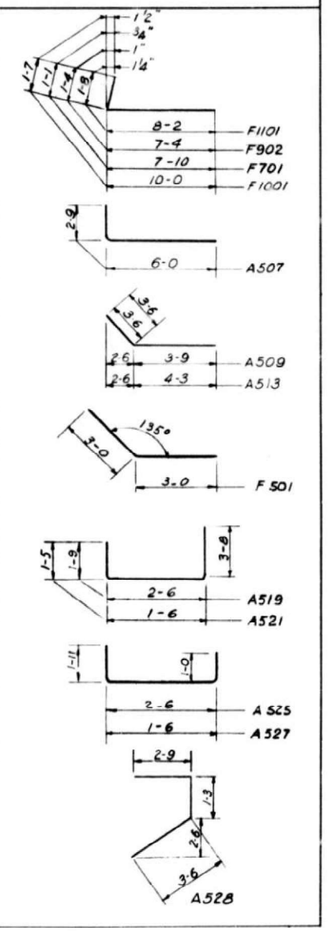
A803	8	8	23-2	
A804	1	8	14-6	



WEST ABUTMENT

MARK	NO REQ'D	SIZE	LENGTH	SHAPE
F401	16	4	37-2	
F501	4	5	6-0	
F601	148	6	14-6	
F701	3	7	8-11	
F901	73	9	9-6	
F902	13	9	8-8	
F1001	126	10	11-7	
F1002	73	10	8-0	
F1101	12	11	9-10	
A501	3	5	22-2	
A502	8	5	19-6	
A503	8	5	5-8	
A504	83	5	2-4	
A505	10	5	20-0	
A506	2	5	24-0	
A507	36	5	8-3	
A508	56	5	4-7	
A509	26	5	7-3	
A510	37	5	3-1	
A511	7	5	7-0	
A512	3	5	14-3	
A513	31	5	7-9	
A514	7	5	13-0	
A515	20	5	32-6	
A516	3	5	19-6	
A517	7	5	36-0	
A518	6	5	3-2	
A519	3	5	7-11	
A520	10	5	5-4	
A521	3	5	6-7	
A522	2	5	2-4	
A523	1	5	2-0	
A524	2	5	3-6	
A525	2	5	5-5	
A526	8	5	6-10	
A527	2	5	4-5	
A528	6	5	7-6	
A529	21	5	30-6	
A530	2	5	17-6	
A601	3	6	26-3	
A602	3	6	30-10	
A801	62	8	8-0	
A802	63	8	14-9	



BILL OF MATERIAL — 2 ABUTMENTS

ITEM	UNIT	W. ABUT.	E. ABUT.	TOTAL
Class 'X' Concrete	Cu. Yd.	257.2	245.4	502.6
Reinforcement Bars	Lbs.	23,990	21,720	45,710
Furnishing Metal Pile Shells-12in.	Lin. Ft.	3,500	3,000	6,500
Driving & Filling Shells	Lin. Ft.	3,500	3,000	6,500
Test Piles (Metal Shell)	Ea.	1	1	2
Class 'A' Excavation for Str.	C.Y.	288	243	531
Special Excavation	C.Y.	—	—	2,060
8" ø Perf. C.M.P.	L.F.	—	—	218

PILE DATA

West Abutment 70 -- 37 Ton Piles
East Abutment 60 -- 37 Ton Piles
Estimated length of Piles:--50ft.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

WEST BOUND EXPRESSWAY
OVER ST. CLAIR AVE. (BR 4)
REINFORCEMENT BAR LIST - ABUTMENTS
H. W. LOCHNER, INC.
ENGINEERS
DATE: APRIL 1958 CHICAGO, ILLINOIS SHEET NO. 5

Drawn By: V.B.
Checked By: H.N.

Revised-Changed Quantities & Changed AC Piles to Metal Shells - 12/19/58 - RL

FOR INFORMATION ONLY

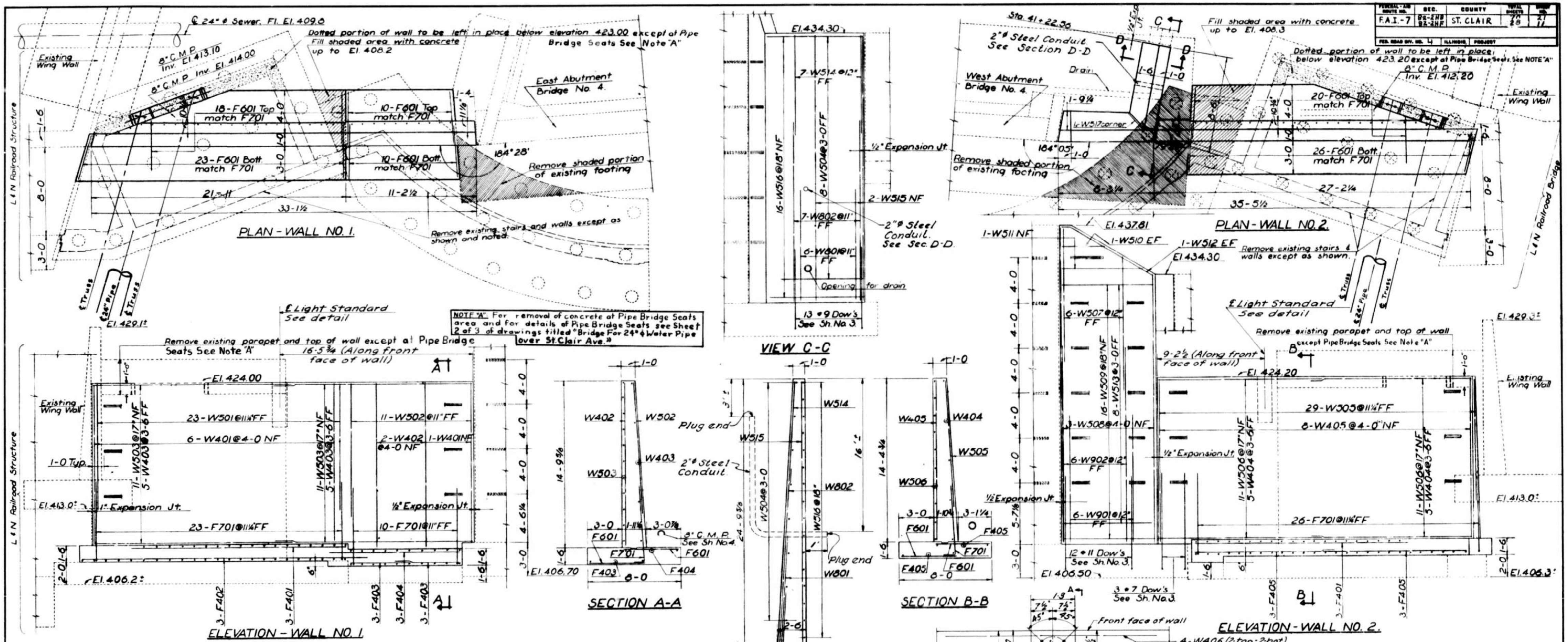
USER NAME = hughesrd	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

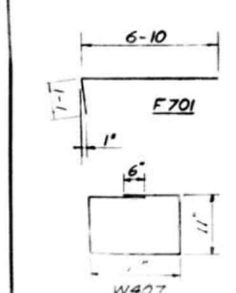
STRUCTURE 082-0015

SCALE: NTS | SHEET 4 OF 9 SHEETS | STA. _____ | TO STA. _____

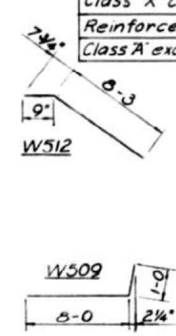
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	43
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		



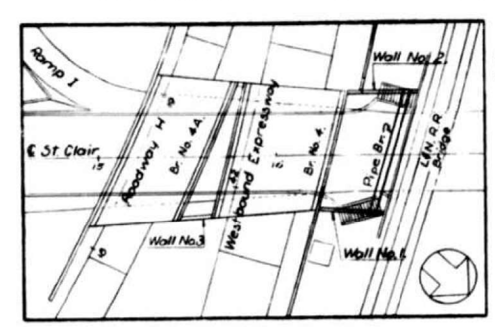
BAR LIST											
Mark	No. Req'd Wall 1.	No. Req'd Wall 2.	Size	Length	Shape	Mark	No. Req'd Wall 1.	No. Req'd Wall 2.	Size	Length	Shape
F401	3	3	•4	19-0	——	W508	-	3	•5	24-6 to 28-2 1-10 incr. 1 Series	——
F402	3	-			24-0	——					
F403	6	-		5-6	——						
F404	3	-		11-0	——	W509	-	16		9-0	
F405	-	6	•4	13-0	——	W510	-	2		3-9	——
						W511	-	1		7-0	——
						W512	-	2		9-0	
						W513	-	8		7-6	——
F601	61	46	•6	5-0	——	W514	-	7		10-11	——
F701	33	26	•7	7-11		W515	-	2		24-7	——
W407	4	4	•4	4-2		W516	-	16		8-2	——
W401	7	-	•4	14-1	——	W517	-	1	•5	14-3	——
W402	2	-		14-7	——	W601	4	4	•6	10-0	——
W403	10	-		17-0	——	W801	-	6	•8	10-0	——
W404	-	10		14-0	——	W802	-	7	•8	16-0	——
W405	-	8	•4	14-3	——	W901	-	6	•9	11-6	——
W406	4	4	•4	8-0	——	W902	-	6	•9	17-0	——
W501	23	-	•5	11-2	——						
W502	11	-		11-8	——						
W503	22	-		17-0	——						
W504	-	8		7-9	——						
W505	-	29		11-3	——						
W506	-	22		13-9	——						
W507	-	6	•5	13-0	——						

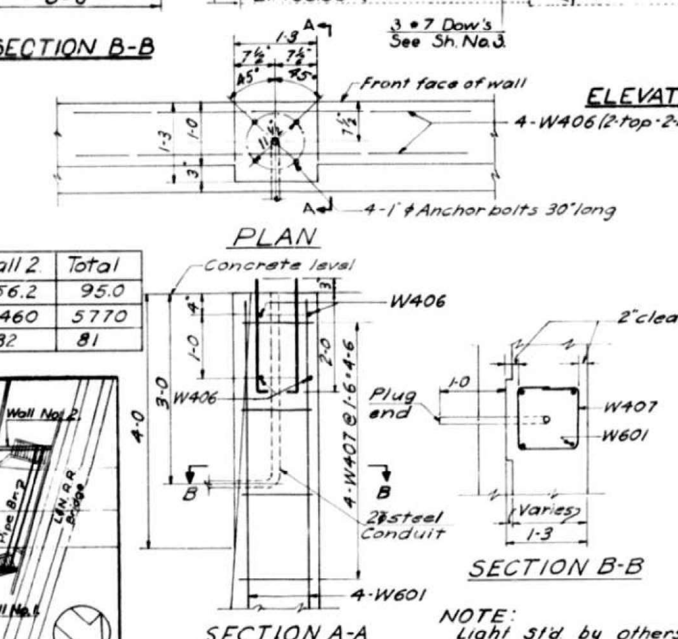


Designed by H.N.
Drawn by F.Z.
Checked by K.K.



BILL OF MATERIAL		Wall 1	Wall 2	Total
Class "X" concrete	cu. yd.	38.8	56.2	95.0
Reinforcement bars	lbs.	2120	3460	5770
Class "A" excavation for struct.	cu. yd.	49	32	81





NOTE: Light Std by others.

DETAIL AT LIGHT STANDARD

NOTES:

For details of horizontal rustications, construction and expansion joints see Sh. No. 7.
Existing footings to be left in place except as shown.
NF indicates near face.
FF " far "
EF " each "

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-7	82-2HB 82-3HF	ST. CLAIR		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

WESTBOUND EXPRESSWAY OVER ST. CLAIR AVE. BR 4

RETAINING WALLS NO. 1 & 2

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

DATE: APRIL 1958 SHEET NO 6

Revised Aug 1959

FOR INFORMATION ONLY

USER NAME = hughesrd	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

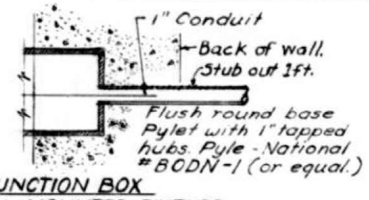
STRUCTURE 082-0015

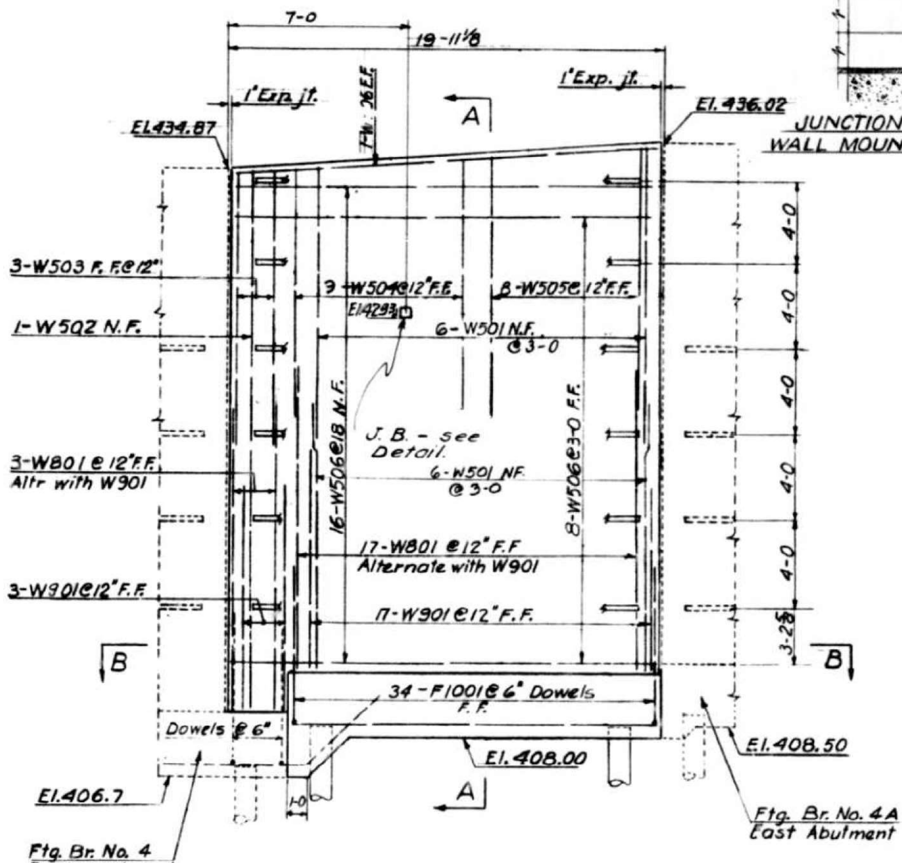
SCALE: NTS SHEET 5 OF 9 SHEETS STA. ______ TO STA. ______

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	44
		CONTRACT NO. 76P10		

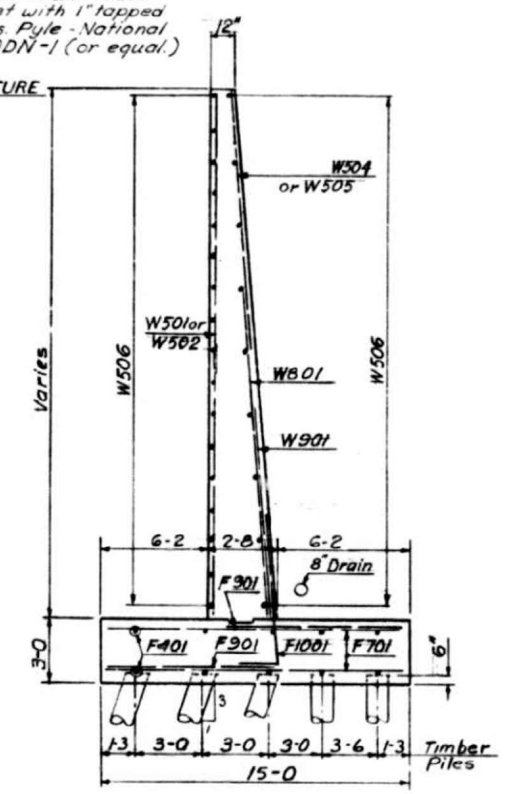
ILLINOIS FED. AID PROJECT

MODEL: $MODELNAME$
FILE NAME: pw:\\pdanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D876P10\CADData\CADSheets\D876P10-sht-typical.dgn





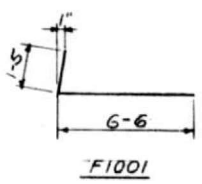
ELEVATION

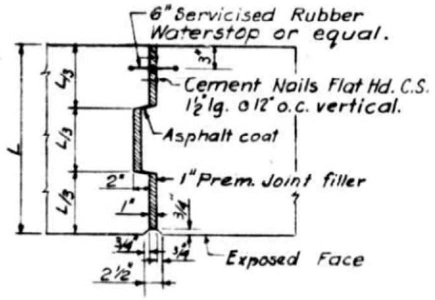


SECTION A-A

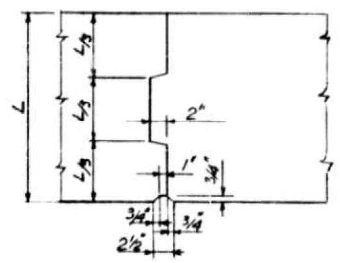
BAR SCHEDULE

MARK	NO. REQ'D	SIZE	LENGTH	SHAPE
F1001	34	10	7-11	L
F901	28	9	8-10	—
F701	29	7	14-9	—
F401	10	4	17-0	—
W801	20	8	15-9	—
W901	20	9	10-9	—
W701	20	7	14-6	—
W501	12	5	13-0	—
W502	1	↓	25-0	—
W503	3	↓	11-10	—
W504	9	↓	10-6	—
W505	8	↓	11-0	—
W506	26	5	19-6	—

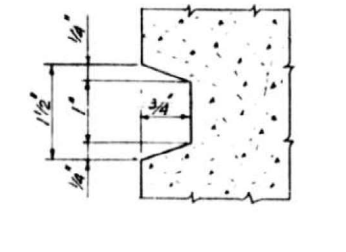




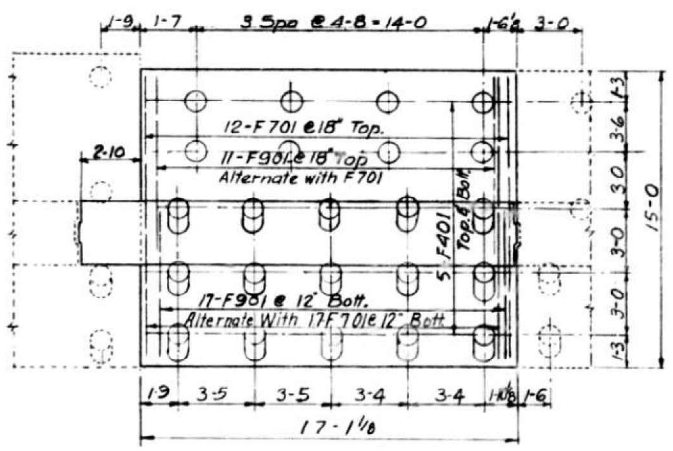
TYPICAL EXPANSION JOINT



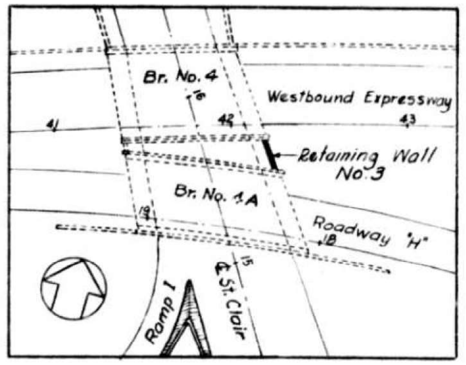
TYPICAL CONSTR. JT.



RUSTICATION DETAIL



SECTION B-B



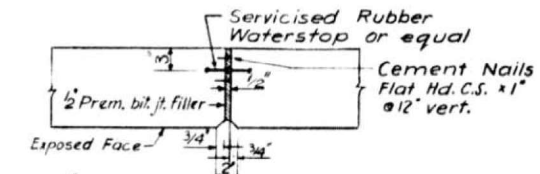
LOCATION PLAN

NOTE:
NF indicates near face
F.F. " far "

BILL OF MATERIAL		
CLASS X CONCRETE	C.Y.	62.7
REINFORCEMENT BARS	LBS.	5,490.
FURNISHING CREOSOTED PILES (20' to 38')	L.F.	621.
DRIVING TIMBER PILES	L.F.	621.
CLASS "A" EXCAV. FOR STRUCTURES	C.Y.	50

PILE DATA

No. Required - 23
Capacity - 20 tons
Type - Creosoted Timber
Estimated Length - 27 ft



½" EXPANSION JOINT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

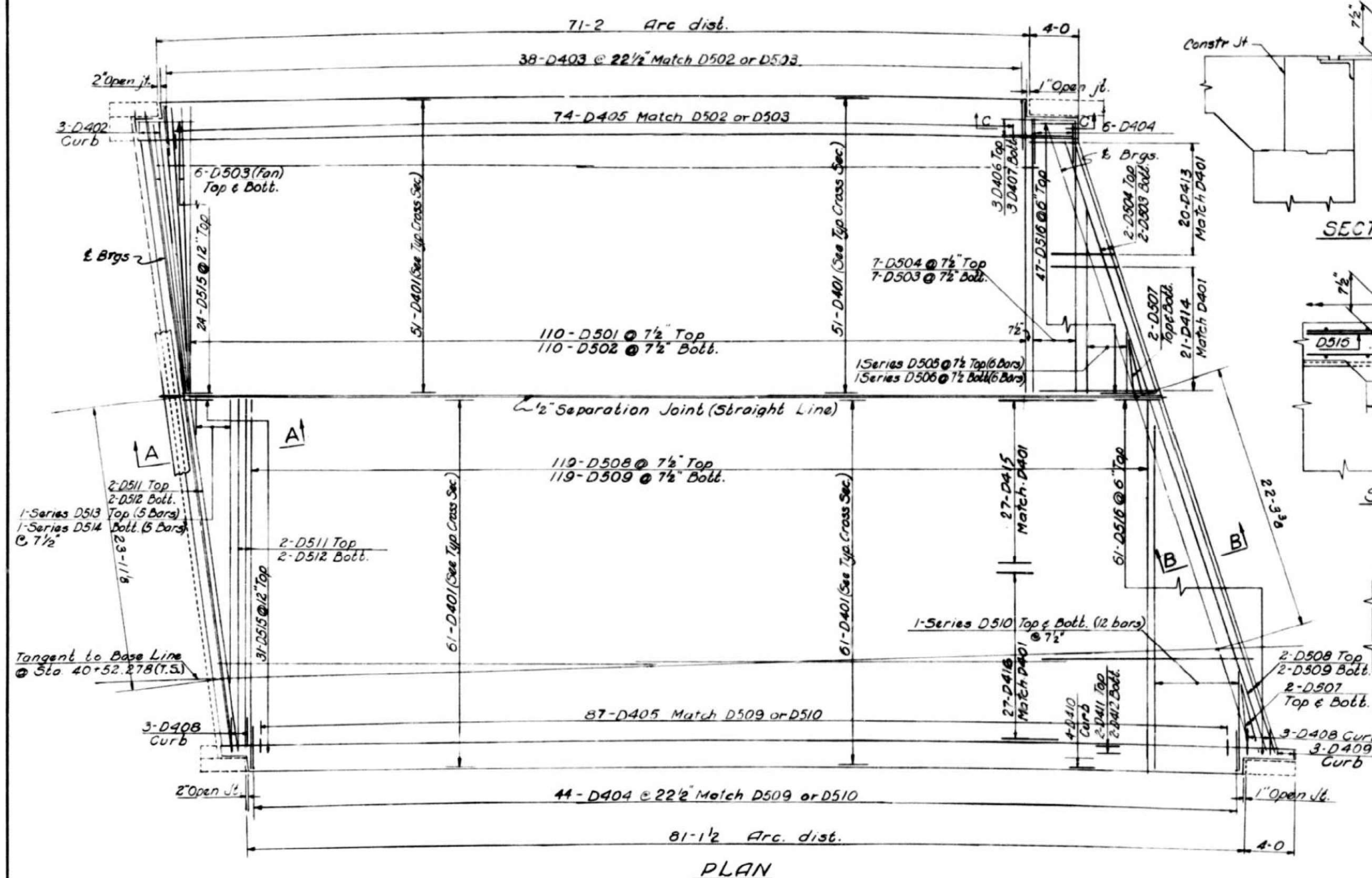
WESTBOUND EXPRESSWAY OVER ST CLAIR AVE. (BR 4)
RETAINING WALL NO. 3

H. W. LOCHNER, INC. ENGINEERS CHICAGO, ILLINOIS
DATE: APRIL 1958 SHEET NO. 7

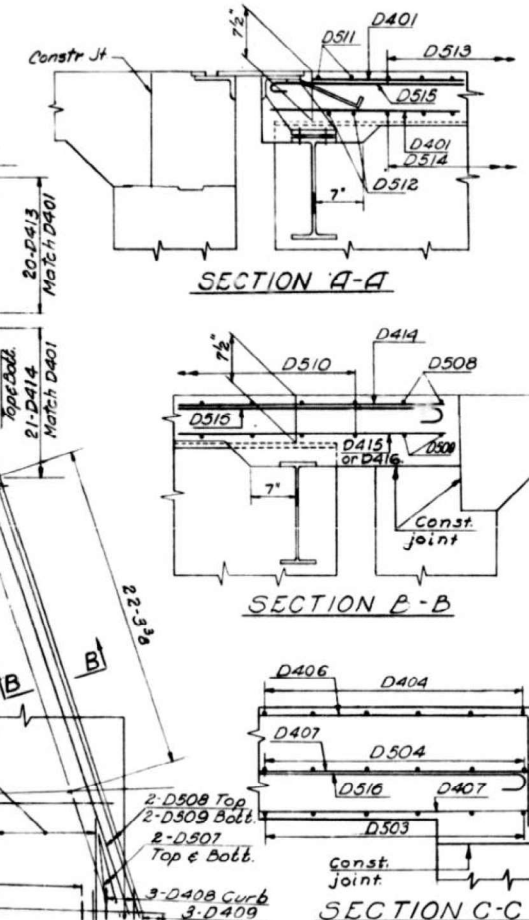
Designed by: H.N.
Drawn by: V.B.
Checked by: H.N.

FOR INFORMATION ONLY

F.A.I. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 7	82-2HB 82-2HF	ST. CLAIR	78	15



PLAN

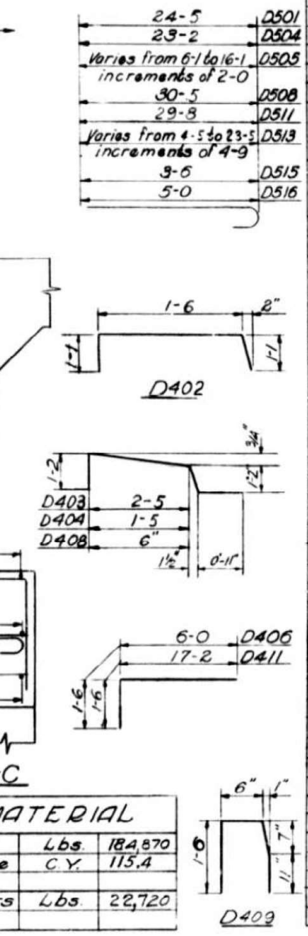


SECTION A-A

SECTION B-B

SECTION C-C

D402



D409

BAR SCHEDULE

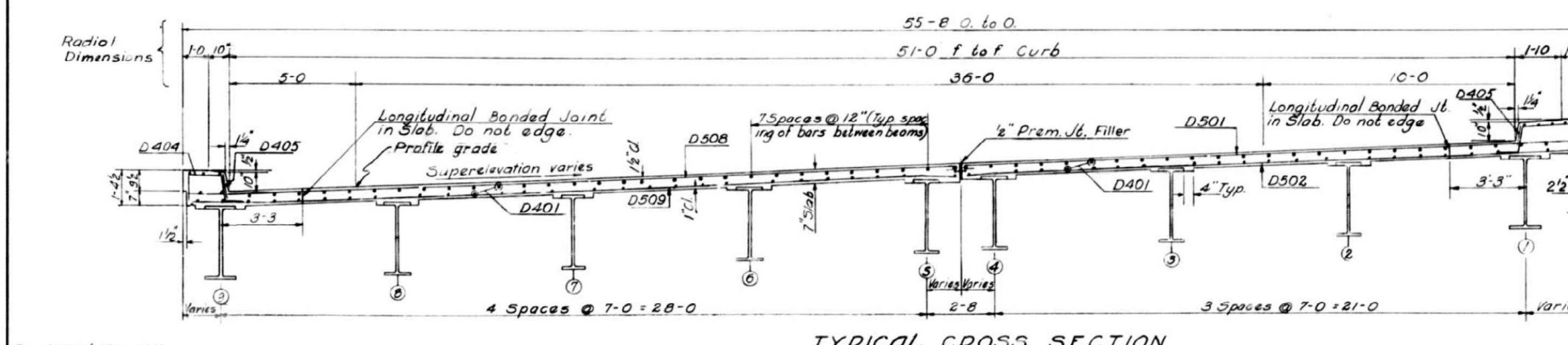
MARK	No. REQ'D	SIZE	LENGTH	SHAPE
D501	110	5	25-0	
D502	110		24-5	
D503	21		23-2	
D504	9		23-9	
D505	6		6-8 to 16-8 2-0 incr. 1-Series	
D506	6		6-1 to 16-1 2-0 incr. 1-Series	
D507	8		5-6	
D508	121		31-0	
D509	121		30-5	
D510	24		8-2 to 29-3 1-11 incr. 2 Series of 12	
D511	4		30-3	
D512	4		29-8	
D513	5		5-0 to 24-0 4-9 incr. 1-Series	
D514	5		4-5 to 23-5 4-9 incr. 1-Series	
D515	55		4-1	
D516	108	#5	5-7	
D401	224	#4	35-8	
D402	3		3-8	
D403	38		5-8	
D404	50		4-8	
D405	161		1-2	
D406	3		7-6	
D407	3		6-0	
D408	6		3-9	
D409	3		3-6	
D410	4		71-4	
D411	2		18-8	
D412	2		17-8	
D413	20		8-5	
D414	21		10-2	
D415	27		12-8	
D416	27	#4	14-11	

BILL OF MATERIAL

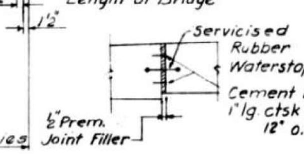
Structural Steel	Lbs.	184,870
Class "X" Concrete	C.Y.	115.4
Reinforcement Bars	Lbs.	22,720

METHOD OF DETERMINING FILLET HEIGHTS

After all Structural Steel has been erected, elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the increment of deflection for these points, determined from the D.L. deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus slab thickness, equals the fillet heights above top of beam.



TYPICAL CROSS SECTION



SEPARATION JOINT DETAIL

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

WESTBOUND EXPRESSWAY OVER ST. CLAIR AVE. (BR 4)

SLAB

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

DATE: APRIL 1958 SHEET NO. 10

Designed By: H.N.
Drawn By: V.B.
Checked By: H.N.

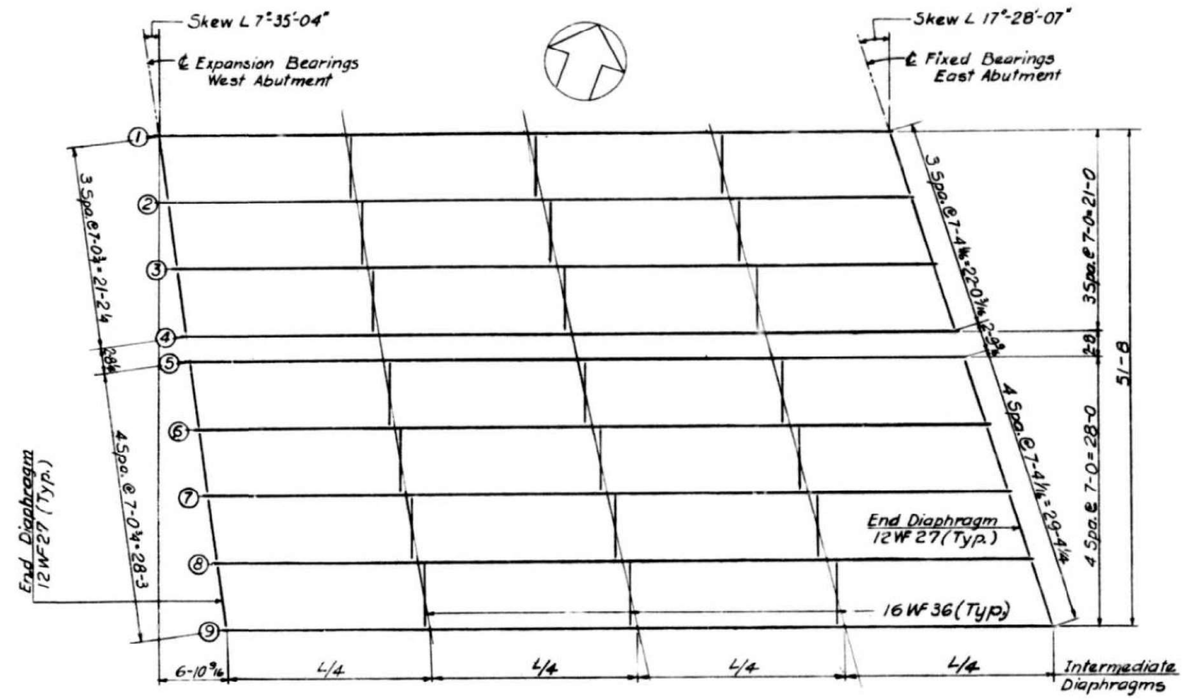
Rev. 12-10-59 Rev'd curb ht. 9" to 10" wmg

FOR INFORMATION ONLY

USER NAME = hughesrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE 082-0015	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	46
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76P10				
PLOT DATE = 3/22/2021	DATE -	REVISED -		SCALE: NTS SHEET 7 OF 9 SHEETS STA. ____ TO STA. ____	ILLINOIS FED. AID PROJECT				

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-7	82-2HB 82-3HF	ST. CLAIR	70 28	23 13

FED. ROAD DIV. NO. 4 ILLINOIS PROJECT

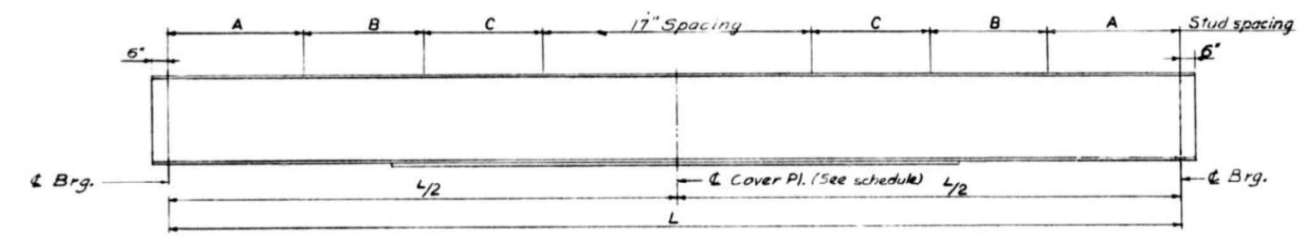


FRAMING PLAN

S T R I N G E R S C H E D U L E							
STRINGER	LENGTH (L)	MATERIAL	BOTTOM PLATES SECTION	BOTTOM PLATES LENGTH	STUD SPACING A	STUD SPACING B	STUD SPACING C
①	73-6 13/16	36 WF 194	11"x 11/16	46'-0"	11'-0" @ 12"	10'-10" @ 13"	11'-3" @ 15"
②	74-10 1/16	↕	11"x 11/16	54'-0"	10'-7½" @ 7½"	10'-6" @ 9"	10'-6" @ 14"
③	76-1 5/16	↕	11"x 3/4"	56'-6"	↕	↕	↕
④	77-4 9/16	↕	11"x 7/8"	58'-0"	↕	↕	↕
⑤	77-10 3/8	↕	11"x 7/8"	59'-0"	↕	↕	↕
⑥	79-1 5/8	36 WF 194	11"x 1"	60'-6"	↕	↕	↕
⑦	80-4 7/8	36 WF 230	15"x 1/2"	55'-0"	↕	↕	↕
⑧	81-8 1/8	36 WF 230	15"x 1/2"	57'-0"	10'-7½" @ 7½"	10'-6" @ 9"	10'-6" @ 14"
⑨	82-11 3/8	36 WF 230	15"x ½"	50'-0"	11'-0" @ 11"	10'-10" @ 13"	11'-3" @ 15"

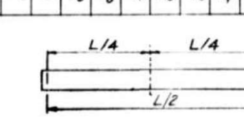
TOP OF BEAM ELEVATIONS

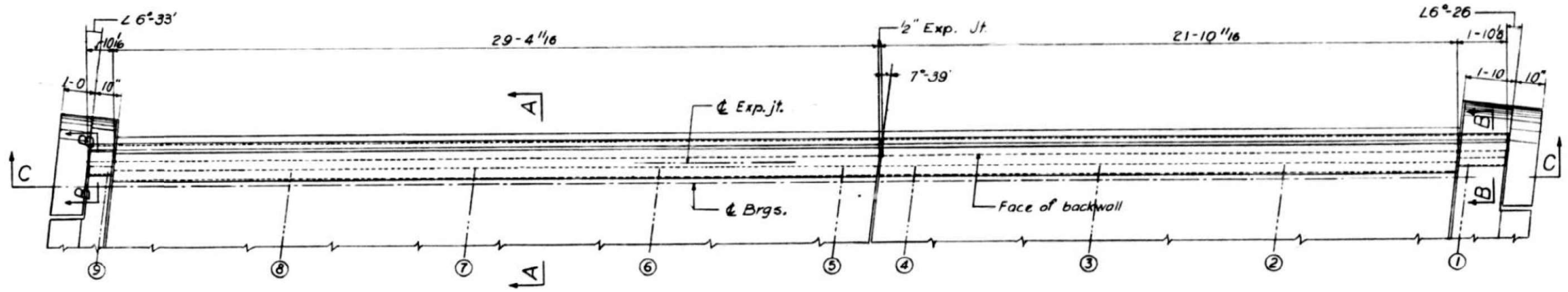
BEAM \ LOCATION	℄ BRG WEST ABUTMT.	℄ BRG EAST ABUTMT.
1	436.38	435.61
2	436.21	435.34
3	436.02	435.05
4	435.82	434.76
5	435.75	434.65
6	435.55	434.35
7	435.35	434.04
8	435.15	433.74
9	434.95	433.41



TYPICAL STRINGER

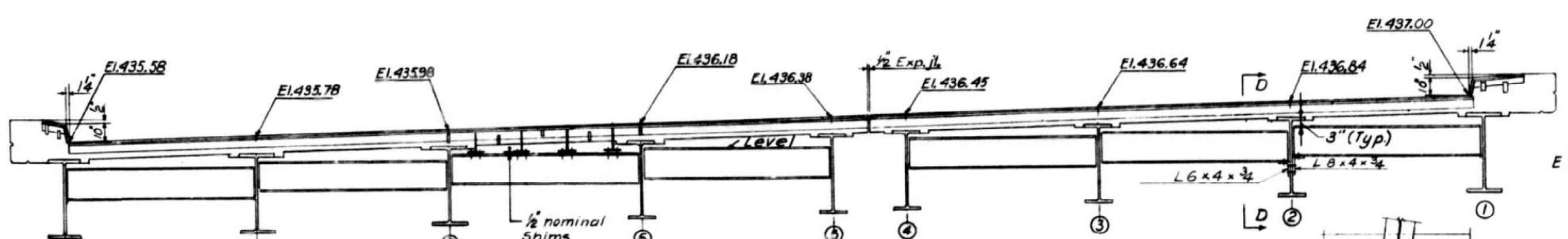
D.L. DEFLECTION & CAMBER																		
LOCATION	Stringer No. 1		Stringer No. 2		Stringer No. 3		Stringer No. 4		Stringer No. 5		Stringer No. 6		Stringer No. 7		Stringer No. 8		Stringer No. 9	
	L/4	2L/4	L/4	2L/4	L/4	2L/4	L/4	2L/4	L/4	2L/4	L/4	2L/4	L/4	2L/4	L/4	2L/4	L/4	2L/4
DEFL. DUE TO WT. OF STEEL	1/4	3/8	1/4	3/8	1/4	3/8	5/16	7/16	5/16	7/16	5/16	7/16	3/8	1/2	3/8	1/2	3/8	9/16
DEFL. DUE TO WT. OF CONC.	1	1 7/16	3/4	1 1/16	13/16	1 1/8	13/16	1 1/8	7/8	1 3/16	7/8	1 1/4	13/16	1 3/16	7/8	1 1/4	1 3/8	1 15/16
CONVEXITY REQ'D FOR VERTICAL CURVE	1/2	11/16	1/2	11/16	9/16	3/4	9/16	3/4	9/16	3/4	9/16	13/16	5/8	13/16	5/8	7/8	5/8	7/8
REQ'D CAMBER	1 3/4	2 1/2	1 1/2	2 1/8	1 5/8	2 1/4	1 11/16	2 5/16	1 3/4	2 3/8	1 3/4	2 1/2	1 13/16	2 1/2	1 7/8	2 5/8	2 3/8	3 3/8





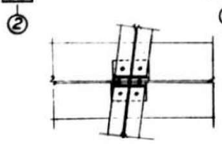
PLAN OF EXPANSION GUARD

NOTE:
For bearing details, diaphragm connections, expansion guard sections, cover pl. welding details & shear connector stud welding details see Sh. No. 9

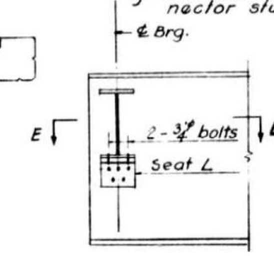


Elevations shown are Top of Concrete Elevations on ℄ Brg. line.

SECTION C-C



VIEW E-E



SECTION D-D

Note: End diaphragm conn. @ Fixed bearing similar.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS

EAST ST. LOUIS EXPRESSWAY

WESTBOUND EXPRESSWAY
OVER ST. CLAIR AVE.
FRAMING PLAN & STEEL DETAILS

BR 4

H. W. LOCHNER, INC
ENGINEERS
CHICAGO, ILLINOIS

DATE: APRIL 1958

SHEET NO. 8

Designed by: S.K.
Drawn by: V.B.
Checked by: H.N.

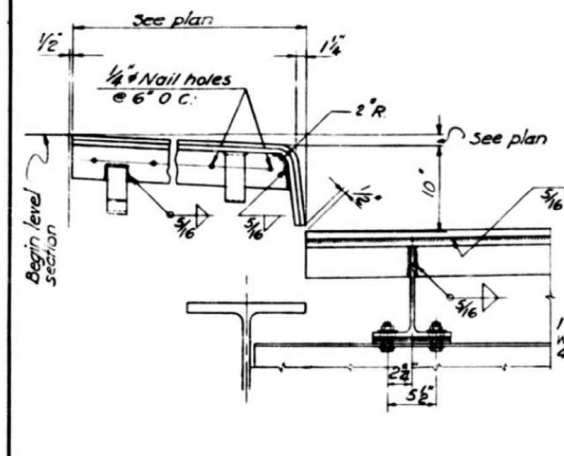
Rev. 12-10-59 Increased curb ht. 9" to 10" wmg

FOR INFORMATION ONLY

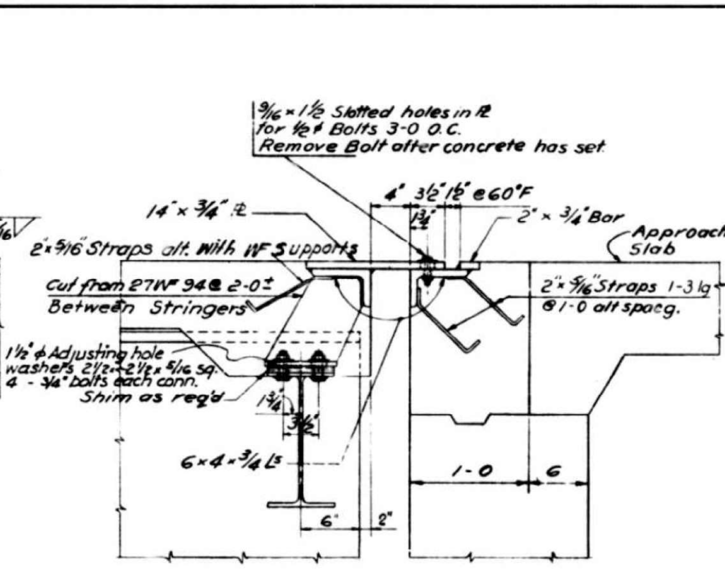
MODEL: $MODELNAME$
FILE NAME: pw://pwidot.bentley.com:pwidot-illinois.gov/IWIDOT/Documents/IDOT Offices/District 8/Projects/D87/6P10/CADData/CADSheets/D876P10-sht-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE 082-0015	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	47
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76P10				
PLOT DATE = 3/22/2021	DATE -	REVISED -		SCALE: NTS SHEET 8 OF 9 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-7	82-2HB 82-2HF	ST. CLAIR	70 28	24 14
STA		TO STA		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

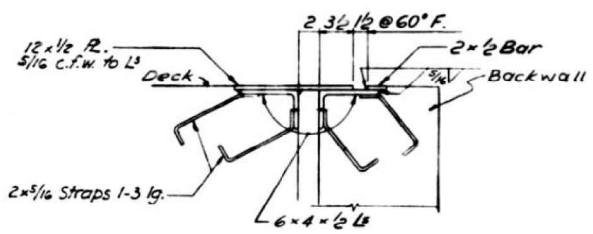


CURB EXPANSION PLS

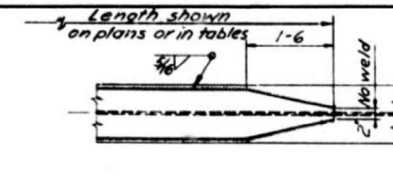


All welds shown are 5/16 continuous fillet welds

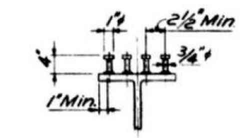
SECTION A-A



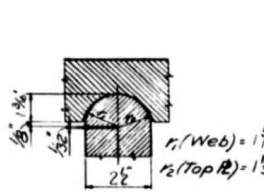
SECTION B-B



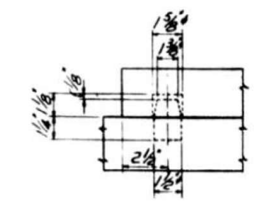
COVER PLATE DETAIL



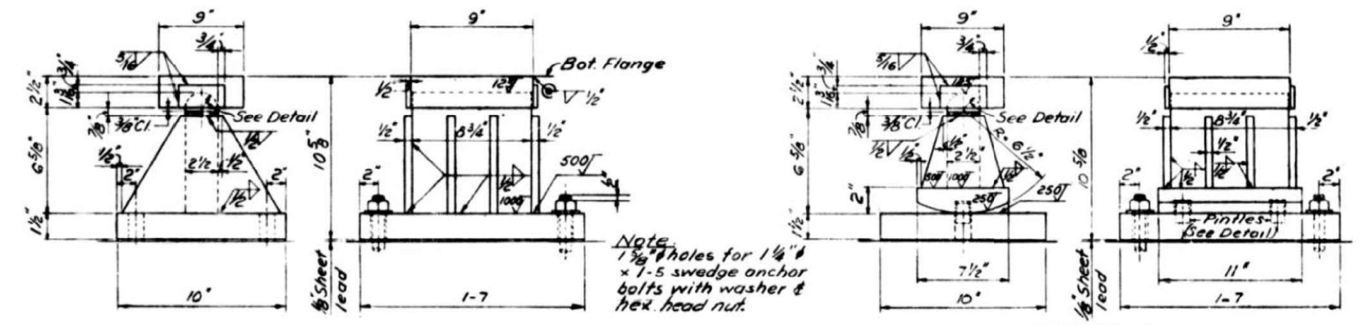
SHEAR CONNECTOR DETAIL



TOP BEARING DETAIL



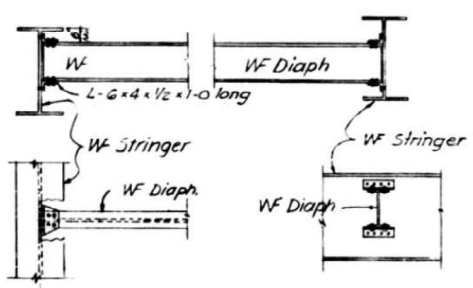
PINTLE DETAIL



FIXED BOLSTER

EXPANSION ROCKER

BEARING DETAILS



INTERMEDIATE DIAPHRAGMS

Designed by: B.S.T.
Drawn by: E.M.
Checked by: B.S.T.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS.
DIVISION OF HIGHWAYS
&
CITY OF EAST ST. LOUIS
EAST ST. LOUIS EXPRESSWAY

STEEL DETAILS
STANDARD SD 1

BR 4

H. W. LOCHNER, INC.
ENGINEERS
CHICAGO, ILLINOIS

DATE: APRIL 1958

SHEET NO. 9

Rev. 12-10-59 Rev'd curb ht. 9" to 10" W.M.B.

FOR INFORMATION ONLY

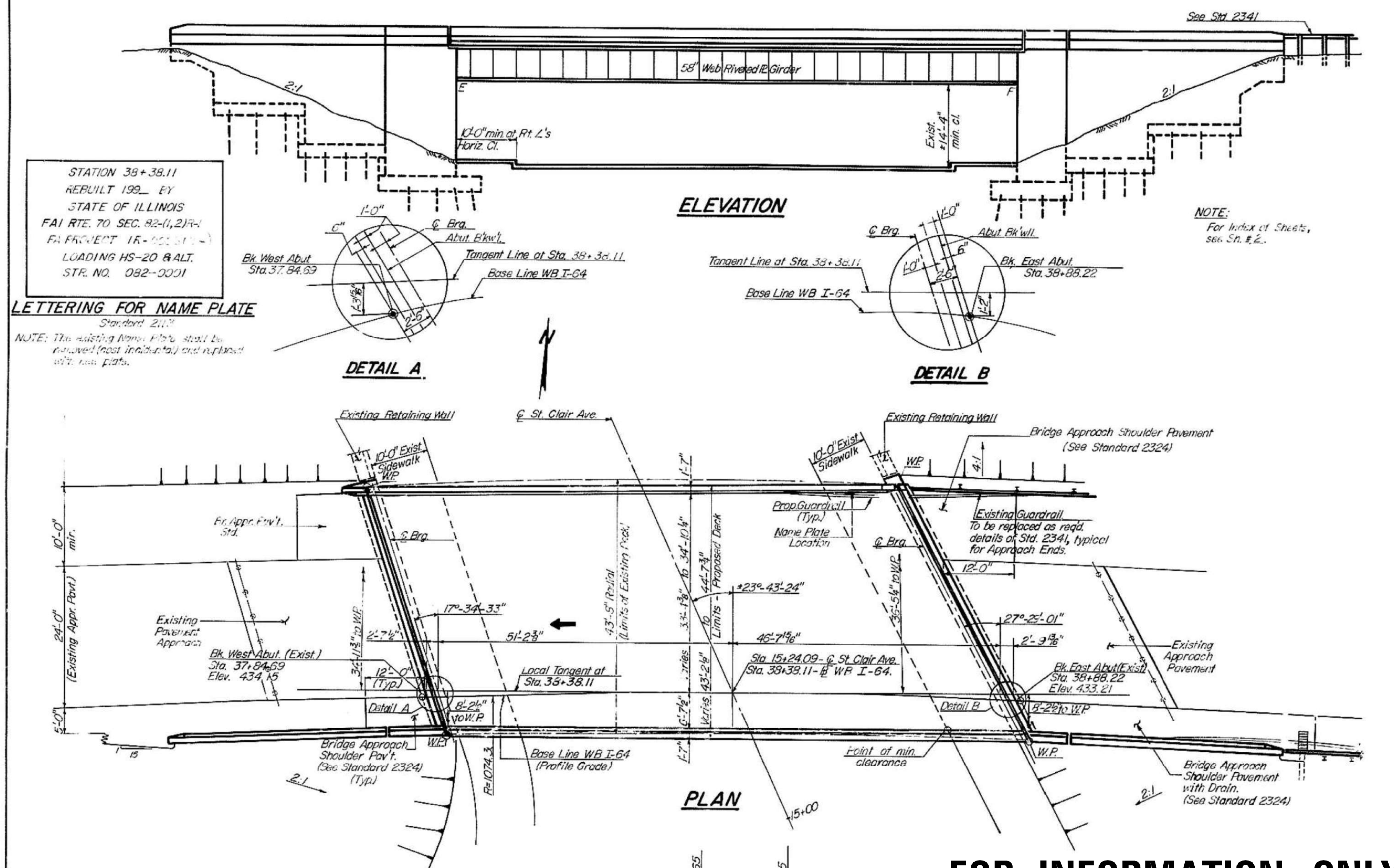
ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
FAI-70	*	ST. CLAIR	163	55
STA		TO STA		
FED ROAD DIST NO	ILLINOIS	PROJECT		

*82-(1,2)R-1 Sh. #1 of 14.

B.M. Chiseled "□" in center of south concrete foundation for sign truss over Ramps I & J, 127' right Station 35+40, El. 416.80.

Existing Structure: Simple Span R.C. Deck on Riveted Plate Girders. Closed R.C. Abuts. on Metal Shell Piles. Existing Deck to be removed and replaced.

No Salvage.



NOTE: For Index of Sheets, see Sh. #2.

STATION 38+38.11
REBUILT 199_ BY
STATE OF ILLINOIS
FAI RTE. 70 SEC. 82-(1,2)R-1
FA PROJECT IR-[illegible]
LOADING HS-20 & ALT.
STR. NO. 082-0001

LETTERING FOR NAME PLATE

Standard 2[illegible]

NOTE: The existing Name Plate shall be removed (cost incidental) and replaced with new plate.

GENERAL NOTES

1. Construction Specifications: The 1988 edition of the State of Illinois Department of Transportation's "Standard Specifications for Road and Bridge Construction," addenda and the Special Provisions shall govern.
2. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
3. Plan dimensions and details relative to the existing structure have been taken from existing plans or from field surveys, 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 scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. All transverse and longitudinal dimensions are measured horizontally.
5. All dimensions are measured at a temperature of 50° F.
6. The Contractor shall submit his proposed system to prevent debris from falling on the roadway below, for approval by the Engineer.
7. △ All Existing Structural Steel shall be given a three coat lead and chromate free alkyd paint system. The color of the final finish coat shall be Interstate Green (Munsell No. 7.5G-4/8). ~~Cleaning of structural steel shall be done by Method A (Complete Paint Removal).~~ △ See Special Provisions.
8. Protect and maintain electrical attachments to bridge superstructure and/or deck slab.
9. The estimated abutment surface for Bridge Seat Sealer is 190 sq. ft.
10. Cover for reinforced steel shall be 1½" minimum unless otherwise noted.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
Class X Concrete - Superstructure	Cu. Yds.	124.6	—	124.6
Class X Concrete	Cu. Yds.	—	22.4	22.4
Reinforcement Bars - Epoxy Coated	Lbs.	26,270	3,540	29,810
Preformed Joint Seal 1¾"	Lin. Ft.	50.0	--	50.0
Preformed Joint Seal 4"	Lin. Ft.	46.0	—	46.0
Removal of Existing Concrete Deck	Each	1	---	1
Name Plate	Each	1	—	1
Protective Coat *	Sq. Yds.	560.0	---	560.0
Stud Shear Connectors (¾")	Each	1,650	—	1,650
Structural Steel	Lbs.	2,990	—	2,990
Concrete Removal	Cu. Yds.	—	12.7	12.7
Elastomeric Bearing Assembly Type I (Special)	Each	7	-	7
△ ~~Cleaning and Painting Steel Bridge~~	Lump Sum	—	—	~~1~~
Bridge Seat Sealer	Lump Sum	---	---	.25
△ Jack and Remove Existing Bearings	Each	7	—	7

*Pay item "Protective Coat" includes deck area and exposed areas of parapet of retaining walls.

For pay item "Temporary Concrete Barrier", see Roadway Plans.

RUDOLPH A. SANDOVAL 2192 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

Sept 24, 1990

HORIZONTAL CURVE DATA
WB I-64

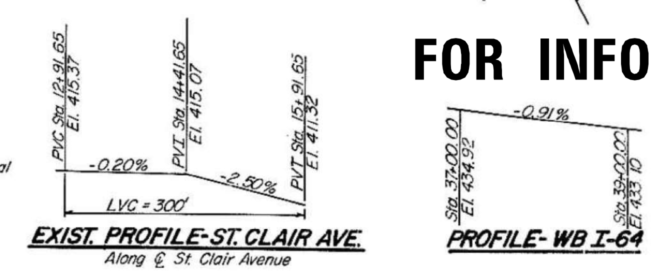
PI = STA. 38+47.02
Δ = 9°-40'-50"
Dc = 5°-20'-00"
R = 1074.30'
L = 181.51'
T = 90.97'
E = 3.84'
S.E. = [illegible]
S.C. = 37+56.06
P.C.C. = 39+37.56

DESIGN STRESSES

EXISTING	PROPOSED
f'c = 1,400 psi - Super	f'c = 3,500 psi
f'c = 1,000 psi - Sub	fs = 24,000 psi - Reinf.
fs = 20,000 psi - Reinf.	fy = 36,000 psi - Structural
fs = 18,000 psi - Structural	

LOADING HS 20-44 & ALTERNATE

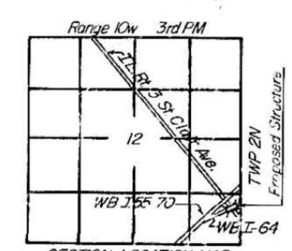
Allow 25#/Sq.Ft. for future wearing surface.



FOR INFORMATION ONLY

DESIGN SPECIFICATION

1953 AASHO for Existing
1989 AASHTO for Proposed
△ 1983 Seismic Guide Specifications with 1985 interim



△ Revised 10/23/90

GENERAL PLAN & ELEVATION

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1

STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)

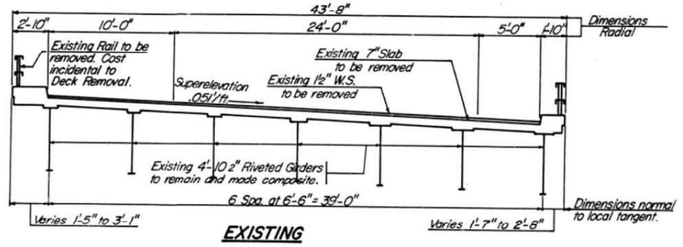
ST. CLAIR CO.
STRUCTURE NO. 082-0001

SANDOVAL ENGINEERS, INC. DES. [illegible] CK. [illegible] DR. [illegible]

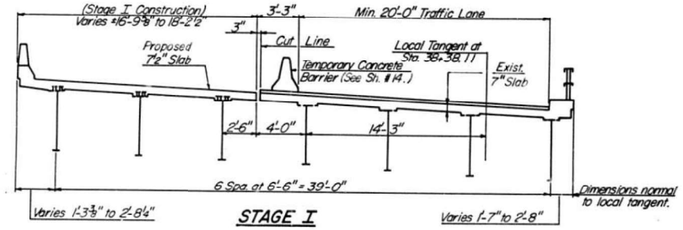
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS PROJECT		

Sh. # 2 of 14.

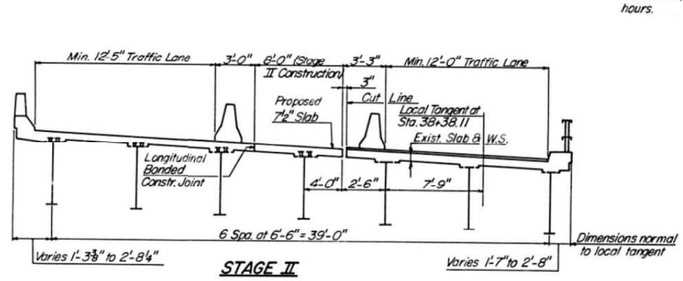
* 82-(1,2) R-1



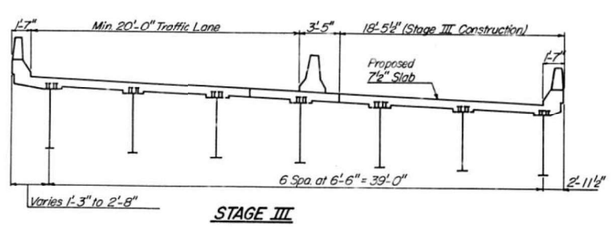
EXISTING



STAGE I



STAGE II



STAGE III

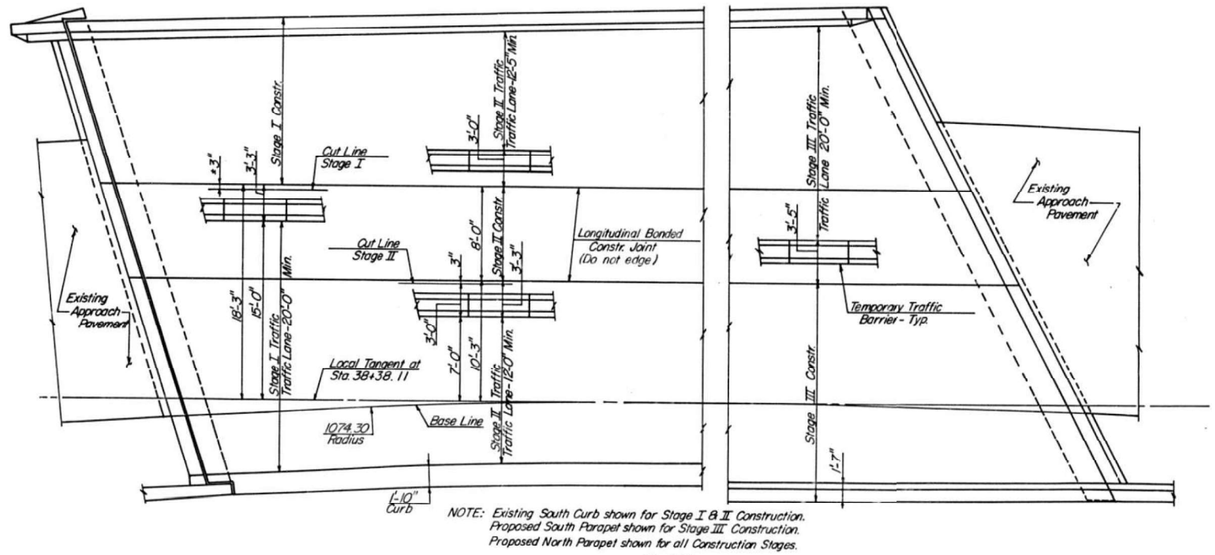
STAGE CONSTRUCTION
(LOOKING EAST)

LBJ #1				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+79.567	-19.874	435.210	435.210
CL BRG W. ABUT	37+82.138	-19.735	435.179	435.179
A	37+91.949	-19.259	435.065	435.089
B	38+ 1.768	-18.876	434.957	435.003
C	38+11.592	-18.583	434.852	434.912
D	38+21.421	-18.382	434.753	434.820
E	38+31.253	-18.272	434.657	434.728
F	38+41.086	-18.254	434.567	434.630
G	38+50.918	-18.328	434.481	434.536
H	38+60.748	-18.493	434.400	434.433
CL BRG E. ABUT	38+74.645	-18.882	434.294	434.294
BK OF E. ABUT	38+77.413	-18.982	434.274	434.274

LBJ #2				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+81.639	-11.750	434.776	434.776
CL BRG W. ABUT	37+84.230	-11.616	434.746	434.746
A	37+94.115	-11.160	434.633	434.656
B	38+ 4.007	-10.797	434.524	434.570
C	38+13.905	-10.525	434.420	434.479
D	38+23.807	-10.346	434.321	434.388
E	38+33.712	-10.259	434.226	434.298
F	38+43.618	-10.264	434.137	434.200
G	38+53.522	-10.362	434.051	434.107
H	38+63.424	-10.551	433.971	434.007
CL BRG E. ABUT	38+73.321	-10.833	433.895	433.908
BK OF E. ABUT	38+79.031	-11.037	433.854	433.854
BK OF W. ABUT	38+81.819	-11.148	433.834	433.834

For location of L.B.J. #1 and L.B.J. #2 see Sh. # 3.

NOTE:
Two lanes of traffic on I-64 shall be kept open during peak hours.



NOTE: Existing South Curb shown for Stage I & II Construction.
Proposed South Parapet shown for Stage III Construction.
Proposed North Parapet shown for all Construction Stages.

PLAN
STAGE CONSTRUCTION

INDEX TO SHEETS

FOR INFORMATION ONLY

CONSTRUCTION STAGING
WB. I 64 over ST. CLAIR AVE.
SECTION 82-(1,2) R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

Des. B.J.W. Ck. Dr.
SANDOVAL ENGINEERS, INC.

USER NAME = hughesrd	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = 44.0925 ' / in.	CHECKED -		REVISED -
PLOT DATE = 3/22/2021	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0001

SCALE: NTS | SHEET 2 OF 14 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	50
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			

MODEL: SHOEBLANKES
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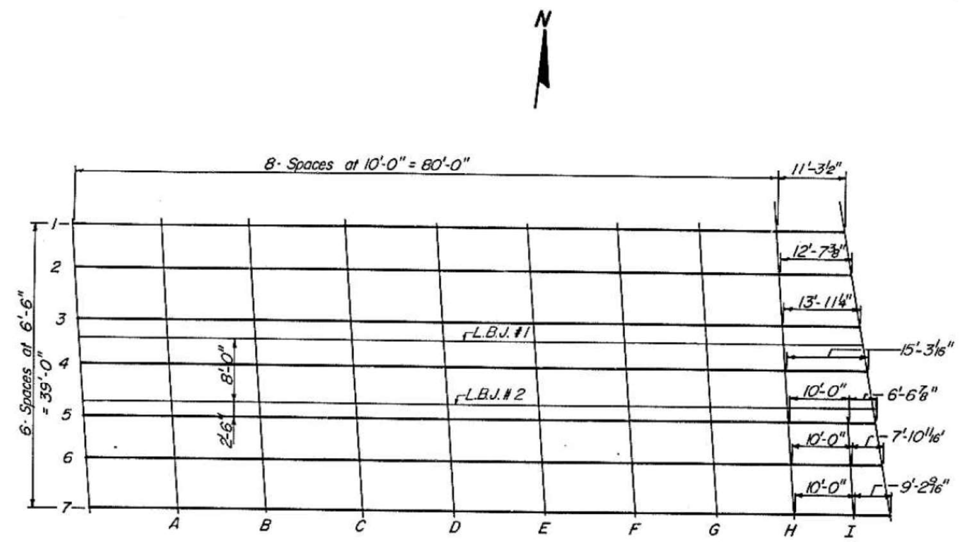
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	57

STA. TO STA.

FED. ROAD DIST. NO. | ILLINOIS | PROJECT

*82-(1,2)R-1

Sh. #3 of 14.



PLAN

NOTE: For Top of Slab Elevations at Longitudinal Bonded Joints, see Sh. #2.

NOTE: Elevations are at Top of Slab.

BEAM 1

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+75.639	-35.626	436.049	436.049
CL BRG W. ABUT	37+78.174	-35.477	436.018	436.018
A	37+87.843	-34.964	435.904	435.928
B	37+97.521	-34.541	435.794	435.842
C	38+ 7.206	-34.209	435.689	435.749
D	38+16.896	-33.966	435.589	435.657
E	38+26.589	-33.814	435.493	435.562
F	38+36.284	-33.752	435.401	435.462
G	38+45.979	-33.780	435.314	435.365
H	38+55.673	-33.898	435.232	435.259
CL BRG E. ABUT	38+66.324	-34.132	435.147	435.147
BK OF E. ABUT	38+69.054	-34.210	435.126	435.126

BEAM 2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+77.273	-29.019	435.697	435.697
CL BRG W. ABUT	37+79.822	-28.873	435.666	435.666
A	37+89.551	-28.376	435.552	435.576
B	37+99.287	-27.970	435.443	435.490
C	38+ 9.030	-27.654	435.338	435.398
D	38+18.778	-27.428	435.238	435.306
E	38+28.529	-27.294	435.142	435.212
F	38+38.281	-27.250	435.051	435.113
G	38+48.033	-27.297	434.965	435.018
H	38+57.784	-27.435	434.883	434.912
CL BRG E. ABUT	38+69.785	-27.729	434.789	434.789
BK OF E. ABUT	38+72.531	-27.816	434.769	434.769

BEAM 3

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+78.926	-22.414	435.345	435.345
CL BRG W. ABUT	37+81.491	-22.273	435.314	435.314
A	37+91.279	-21.791	435.201	435.224
B	38+ 1.074	-21.401	435.092	435.138
C	38+10.876	-21.102	434.987	435.047
D	38+20.682	-20.894	434.887	434.955
E	38+30.491	-20.778	434.792	434.863
F	38+40.302	-20.752	434.702	434.764
G	38+50.112	-20.818	434.616	434.670
H	38+59.920	-20.976	434.534	434.566
CL BRG E. ABUT	38+73.287	-21.337	434.431	434.431
BK OF E. ABUT	38+76.049	-21.433	434.411	434.411

BEAM 4

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+80.599	-15.812	434.993	434.993
CL BRG W. ABUT	37+83.180	-15.675	434.962	434.962
A	37+93.028	-15.209	434.849	434.872
B	38+ 2.883	-14.836	434.740	434.786
C	38+12.744	-14.554	434.636	434.696
D	38+22.610	-14.363	434.537	434.604
E	38+32.478	-14.265	434.442	434.513
F	38+42.347	-14.259	434.352	434.415
G	38+52.215	-14.344	434.266	434.322
H	38+62.081	-14.521	434.186	434.220
CL BRG E. ABUT	38+76.830	-14.957	434.074	434.074
BK OF E. ABUT	38+79.608	-15.063	434.054	434.054

BEAM 5

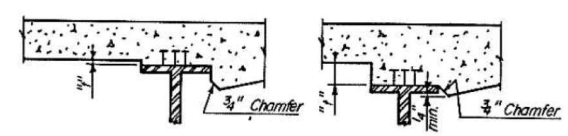
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+82.293	-9.212	434.641	434.641
CL BRG W. ABUT	37+84.890	-9.079	434.611	434.611
A	37+94.798	-8.630	434.497	434.520
B	38+ 4.714	-8.273	434.389	434.434
C	38+14.635	-8.008	434.285	434.344
D	38+24.560	-7.836	434.186	434.253
E	38+34.488	-7.756	434.092	434.163
F	38+44.416	-7.769	434.002	434.066
G	38+54.344	-7.874	433.917	433.973
H	38+64.268	-8.071	433.837	433.874
I	38+74.188	-8.361	433.761	433.776
CL BRG E. ABUT	38+80.415	-8.590	433.716	433.716
BK OF E. ABUT	38+83.209	-8.704	433.697	433.697

BEAM 6

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+84.007	-2.615	434.289	434.289
CL BRG W. ABUT	37+86.620	-2.487	434.259	434.259
A	37+96.590	-2.054	434.146	434.168
B	38+ 6.567	-1.714	434.038	434.082
C	38+16.549	-1.467	433.934	433.993
D	38+26.535	-1.312	433.835	433.902
E	38+36.523	-1.251	433.741	433.813
F	38+46.511	-1.283	433.652	433.717
G	38+56.498	-1.408	433.568	433.625
H	38+66.481	-1.625	433.488	433.527
I	38+76.460	-1.936	433.413	433.430
CL BRG E. ABUT	38+84.042	-2.234	433.359	433.359
BK OF E. ABUT	38+86.852	-2.358	433.340	433.340

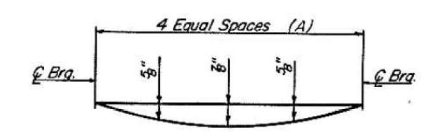
BEAM 7

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECTION
BK OF W. ABUT	37+85.743	3.979	433.937	433.937
CL BRG W. ABUT	37+88.372	4.103	433.907	433.907
A	37+98.404	4.519	433.794	433.816
B	38+ 8.442	4.842	433.686	433.730
C	38+18.486	5.072	433.583	433.642
D	38+28.533	5.208	433.485	433.551
E	38+38.582	5.250	433.391	433.464
F	38+48.631	5.199	433.302	433.367
G	38+58.678	5.054	433.218	433.276
H	38+68.721	4.816	433.139	433.181
I	38+78.759	4.484	433.065	433.084
CL BRG E. ABUT	38+87.712	4.110	433.002	433.002
BK OF E. ABUT	38+90.538	3.976	432.983	432.983



AT MIN. FILLET   AT MAX. FILLET

Note: To determine "t". Elevations of the top flanges of the beams are taken at the intervals shown in elevation table. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection" shown, minus slab thickness, equals the fillet height "t" above the top flange of the beams. If "t" is greater than 2", the Engineer shall be notified for possible plan modification.



℄ DEFLECTION DIAGRAM
(Includes weight of Concrete only.)

Beam	(A)
1	22'-9⅞"
2	23'-1¾"
3	23'-5¾"
4	23'-9¾"
5	24'-1¾"
6	24'-5⅝"
7	24'-9⅝"

Note: The deflections shown in the "℄ Deflection Diagram" are not to be used in the field if the Engineer is working from the grade elevations adjusted for ℄ deflections as shown in the elevation table.

FOR INFORMATION ONLY

TOP OF SLAB ELEVATIONS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1

STA. 38+38.11 (W.B. I-64)
STA. 15+24.09 (ST. CLAIR AVE.)

ST. CLAIR CO.

STRUCTURE NO. 082-0001

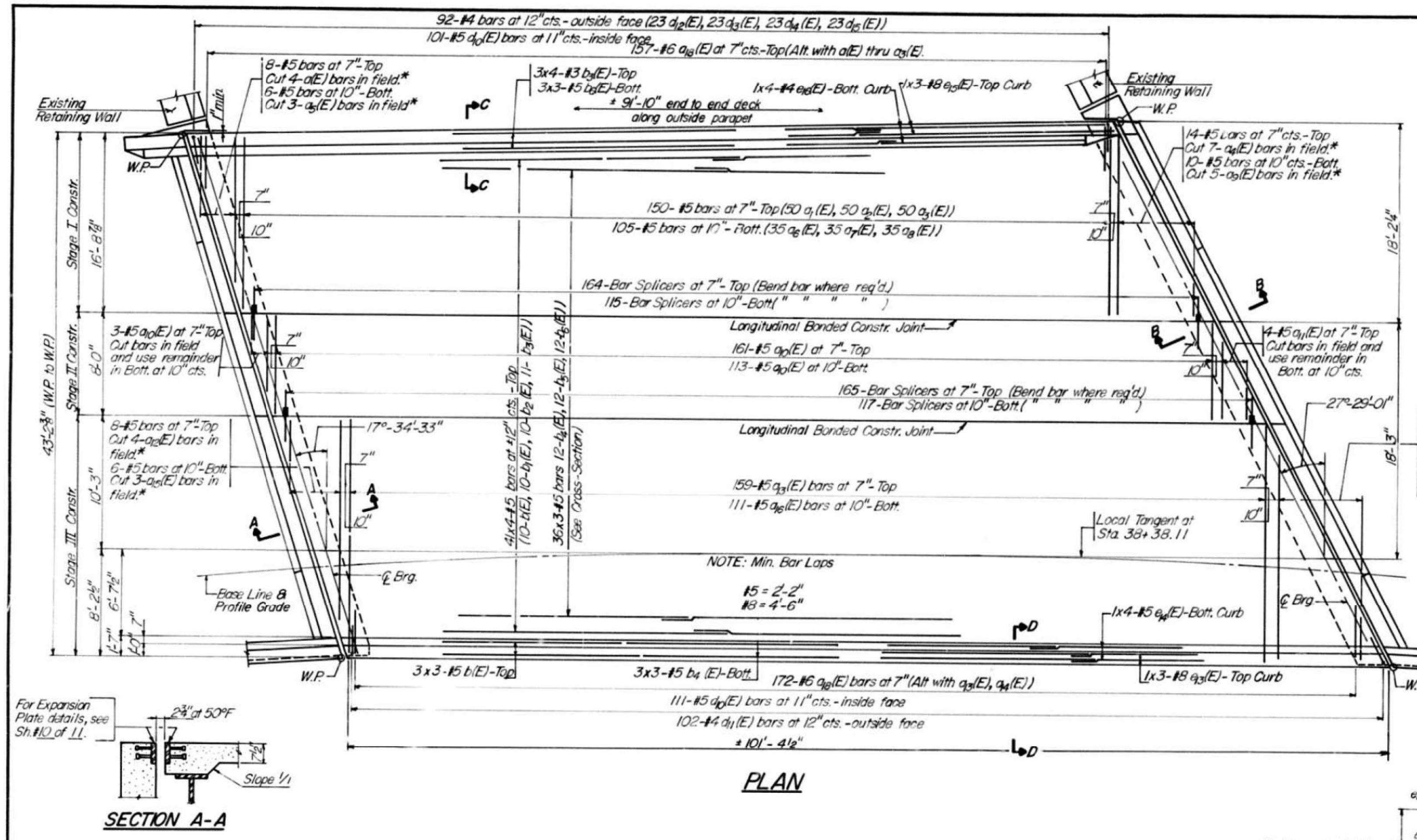
Des. Ck. Dr.

SANDOVAL ENGINEERS INC.

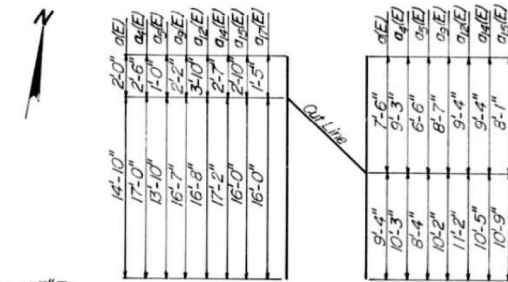
USER NAME = hughesrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE 082-0001	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	51
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76P10				
PLOT DATE = 3/22/2021	DATE -	REVISED -		SCALE: NTS SHEET 3 OF 14 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	58
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

*82-(1,2) R-1 Sh.# 4 of 14.



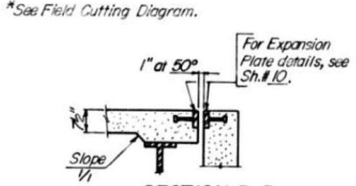
PLAN



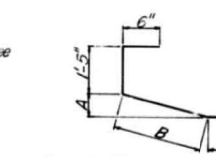
FIELD CUTTING DIAGRAM

Order bars full length as indicated in Bill of Material and cut in field on Cut Line.
Bars shall be equally spaced during cutting

*See Field Cutting Diagram.

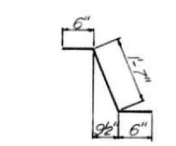


SECTION B-B

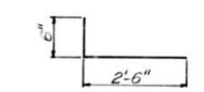


Bar $d_{11}(E)$ thru $d_{15}(E)$

Bar	"A"	"B"	"C"
$d_{11}(E)$	2½"	2'-0"	0"
$d_{12}(E)$	3¼"	6"	0"
$d_{13}(E)$	3¼	6"	4"
$d_{14}(E)$	3¼	6"	9"
$d_{15}(E)$	3¼	6"	1'-1"



Bar $d_{10}(E)$

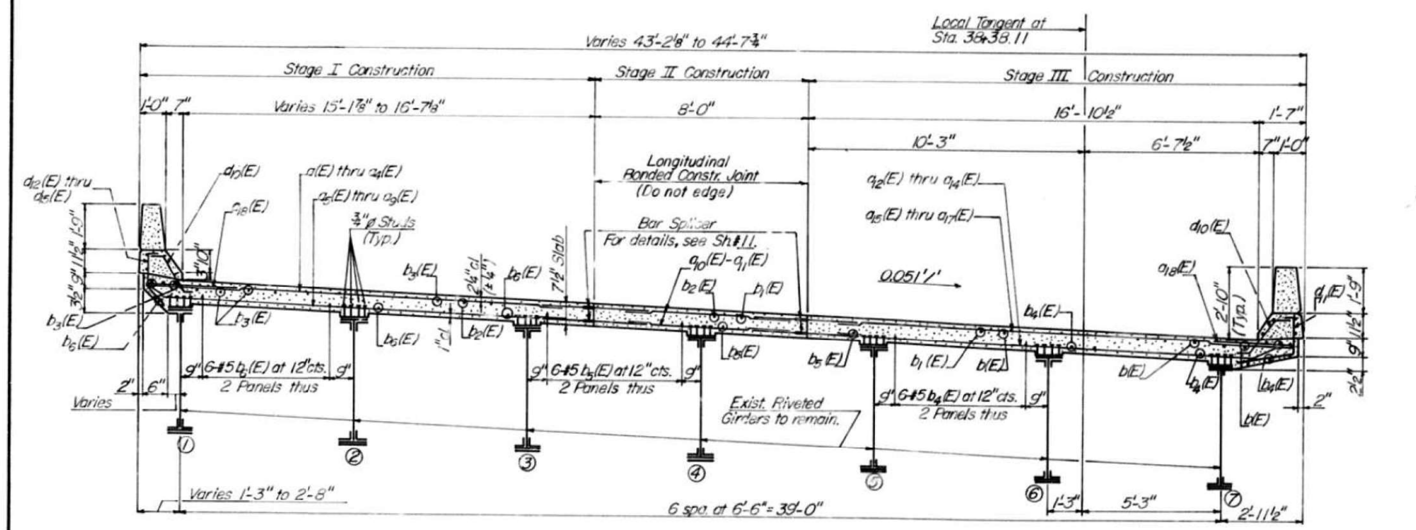


Bar $d_5(E)$ & $d_6(E)$

BILL OF MATERIAL – SUPERSTR.

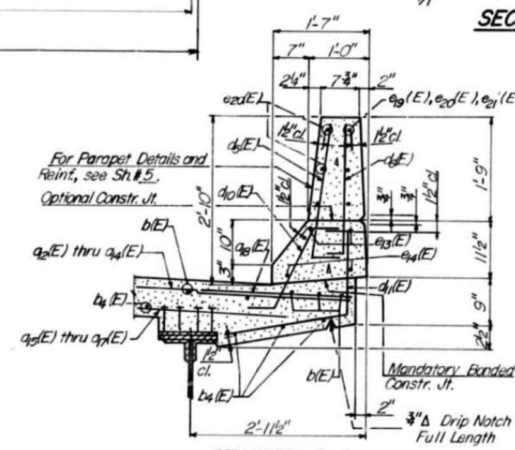
Bar	No.	Size	Length	Shape
$a(E)$	4	#5	16'-10"	—
$a_1(E)$	50	#5	16'-5"	—
$a_2(E)$	50	#5	16'-11"	—
$a_3(E)$	50	#5	17'-4"	—
$a_4(E)$	7	#5	19'-6"	—
$a_5(E)$	3	#5	14'-10"	—
$a_6(E)$	35	#5	15'-9"	—
$a_7(E)$	35	#5	16'-2"	—
$a_8(E)$	35	#5	16'-7"	—
$a_9(E)$	5	#5	18'-9"	—
$a_{10}(E)$	277	#5	7'-9"	—
$a_{11}(E)$	4	#5	9'-6"	—
$a_{12}(E)$	4	#5	20'-6"	—
$a_{13}(E)$	159	#5	18'-2"	—
$a_{14}(E)$	7	#5	19'-9"	—
$a_{15}(E)$	3	#5	18'-10"	—
$a_{16}(E)$	111	#5	17'-6"	—
$a_{17}(E)$	5	#5	17'-5"	—
$a_{18}(E)$	329	#6	4'-0"	—
$b(E)$	52	#5	26'-10"	—
$b_1(E)$	40	#5	26'-2"	—
$b_2(E)$	40	#5	25'-6"	—
$b_3(E)$	56	#5	24'-10"	—
$b_4(E)$	45	#5	34'-9"	—
$b_5(E)$	36	#5	33'-9"	—
$b_6(E)$	45	#5	33'-0"	—
$d_5(E)$	212	#5	3'-0"	L
$d_6(E)$	194	#4	3'-0"	L
$d_{10}(E)$	212	#5	2'-7"	∫
$d_{11}(E)$	102	#4	3'-11"	[
$d_{12}(E)$	23	#4	2'-5"	[
$d_{13}(E)$	23	#4	2'-9"	[
$d_{14}(E)$	23	#4	3'-2"	[
$d_{15}(E)$	23	#4	3'-6"	[
$e_{13}(E)$	6	#8	36'-9"	—
$e_{14}(E)$	8	#5	27'-0"	—
$e_{15}(E)$	6	#8	33'-7"	—
$e_{16}(E)$	8	#5	24'-6"	—
$e_{17}(E)$	30	#4	15'-0"	—
$e_{18}(E)$	3	#4	15'-4"	—
$e_{19}(E)$	3	#4	17'-0"	—
$e_{20}(E)$	30	#4	16'-7"	—
$e_{21}(E)$	3	#4	16'-4"	—

Item	Unit	Quantity
Class X Concrete-Superstr.	Cu. Yds.	124.6
Reinf. Bars - Epoxy Coated	Lbs.	26,270
Removal of Existing Concrete Deck	Each	1

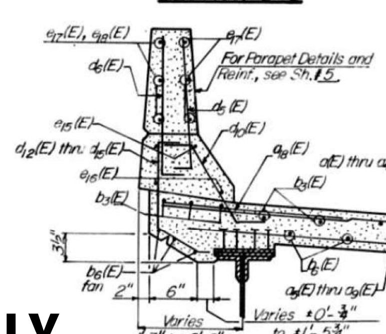


CROSS-SECTION

LOOKING EAST



SECTION D-D



SECTION C-C

Note: For dimensions and notes not shown, see Section D-D.

NOTES:

Reinforcement Bars designated (E) shall be epoxy coated.

Bars indicated thus 20x3-#5 etc., indicates 20 lines of bars with 3 lengths per line.

Concrete deck contains approximately 1150 cu.yds. of concrete and 435 sq. yds. of wearing surface.

SUPERSTRUCTURE DETAILS

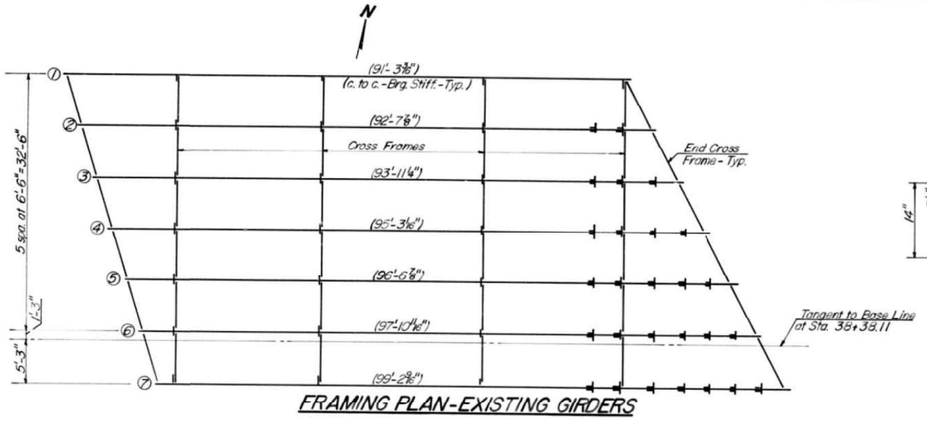
WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2) R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

FOR INFORMATION ONLY

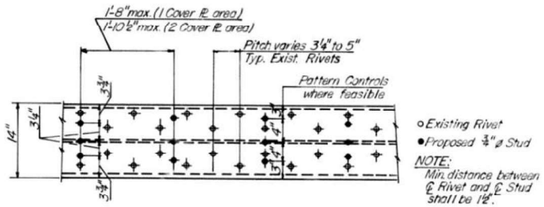
Des. Ck. Dr.
SANDOVAL ENGINEERS, INC.

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

*82-(1,2) R-1 Sh. # 5 of 14.



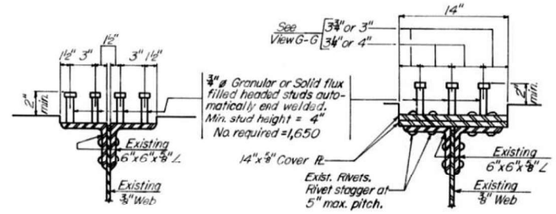
FRAMING PLAN-EXISTING GIRDERS



○ Existing Rivet
● Proposed ¾" ø Stud

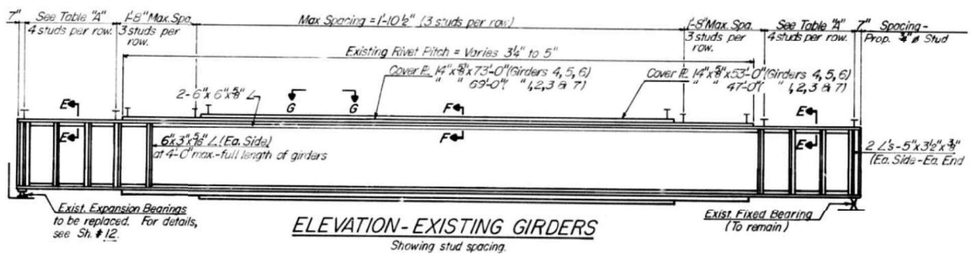
NOTE:
Min. distance between ℄ Rivet and ℄ Stud shall be 1⅛".

VIEW G-G
Typical Stud Placement Pattern



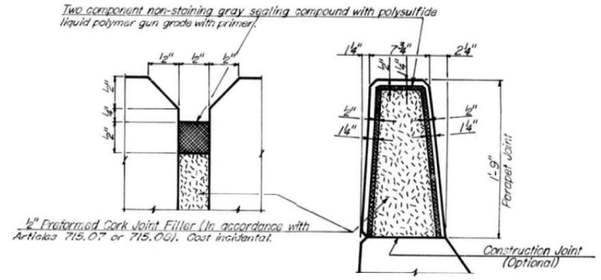
SECTION E-E

SECTION F-F
NOTE: Details same for I Cover Pl. on flange.



ELEVATION-EXISTING GIRDERS
Showing stud spacing.

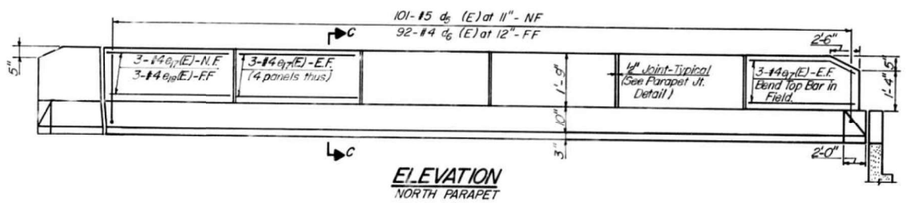
TABLE "A"	
GIRDER	SPACING
1	6 spa. at 1'-9" = 10'-6"
2	6 spa. at 1'-9" = 10'-6"
3	7 spa. at 1'-9" = 12'-3"
4	6 spa. at 1'-9" = 10'-6"
5	6 spa. at 1'-9" = 10'-6"
6	7 spa. at 1'-9" = 12'-3"
7	8 spa. at 1'-9" = 14'-0"



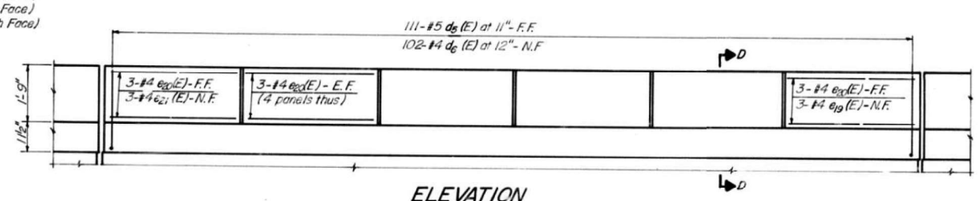
DETAILS OF PARAPET JOINT

NOTE:
For Sections C-C and D-D, see Sh. # 4.

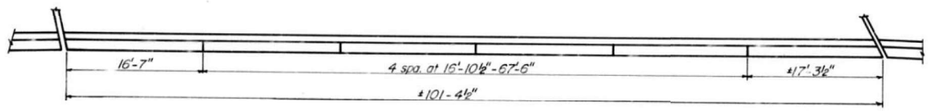
NOTE:
N.F. = (Near Face)
F.F. = (Far Face)
E.F. = (Each Face)



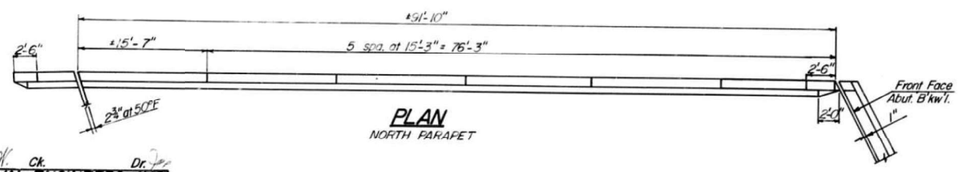
ELEVATION
NORTH PARAPET



ELEVATION
SOUTH PARAPET

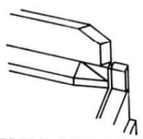


PLAN
SOUTH PARAPET



PLAN
NORTH PARAPET

NOTE: For parapet reinforcement, details and quantities, see Sh. # 4.



PERSPECTIVE VIEW AT N.E. END POST

FOR INFORMATION ONLY

△ Revised 10/23/20

STRUCT. STEEL-PARAPET DETAILS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)

ST. CLAIR CO.

STRUCTURE NO. 082-0001

Des. JGM Ck. Dr.

SANDOVAL ENGINEERS, INC.

USER NAME = hughesrd	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/22/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0001

SCALE: NTS | SHEET 5 OF 14 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	53
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

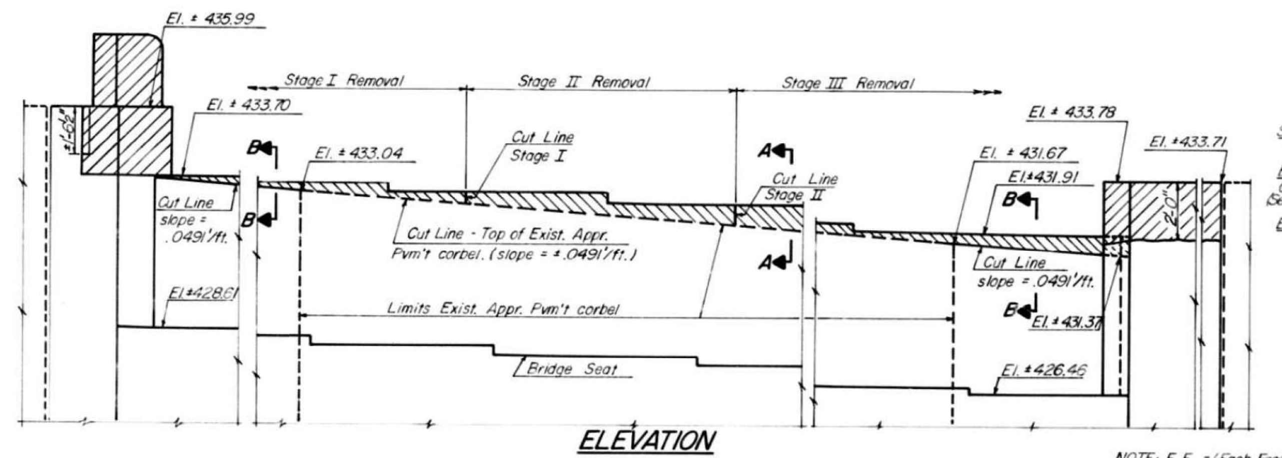
MODEL: $MODELNAME$
FILE NAME: p:\pdfs\mapp\dot.illinois.gov\NDOT\Documents\IDOT Offices\District 8\Projects\0876P10\CAD\Data\CAD\sheets\0876P10-sht-typical.dgn

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
FAI-70	*	ST. CLAIR	163	60

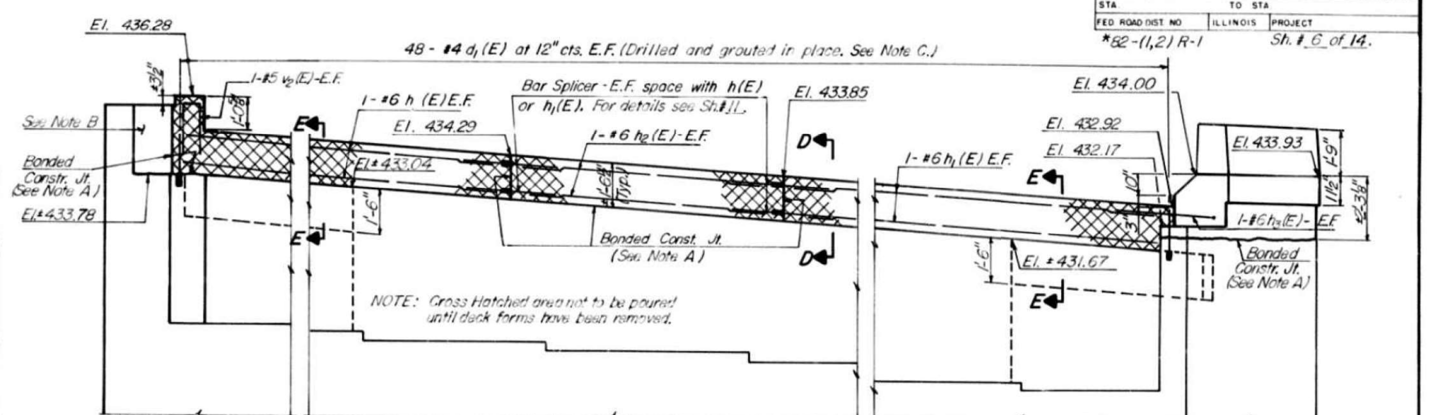
STA TO STA

FED ROAD DIST NO ILLINOIS PROJECT

*82-(1,2) R-1 Sh. #6 of 14.

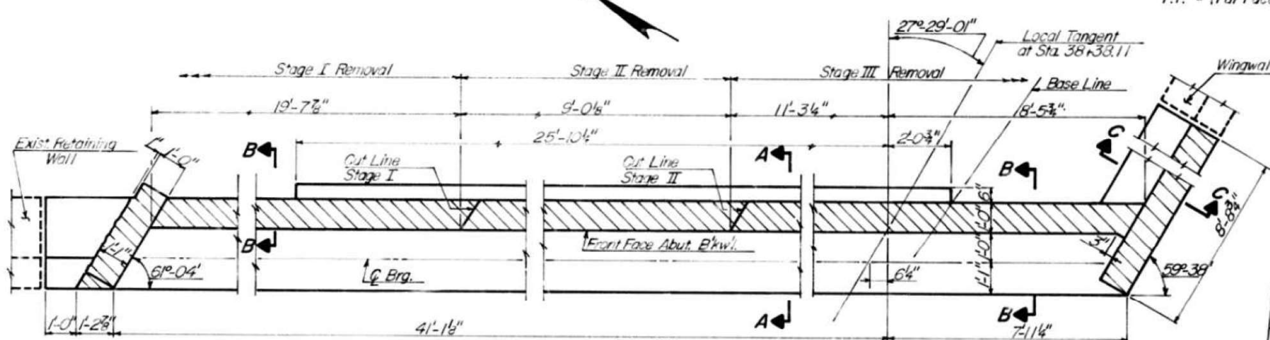


NOTE: E.F. = (Each Face)
N.F. = (Near Face)
F.F. = (Far Face)



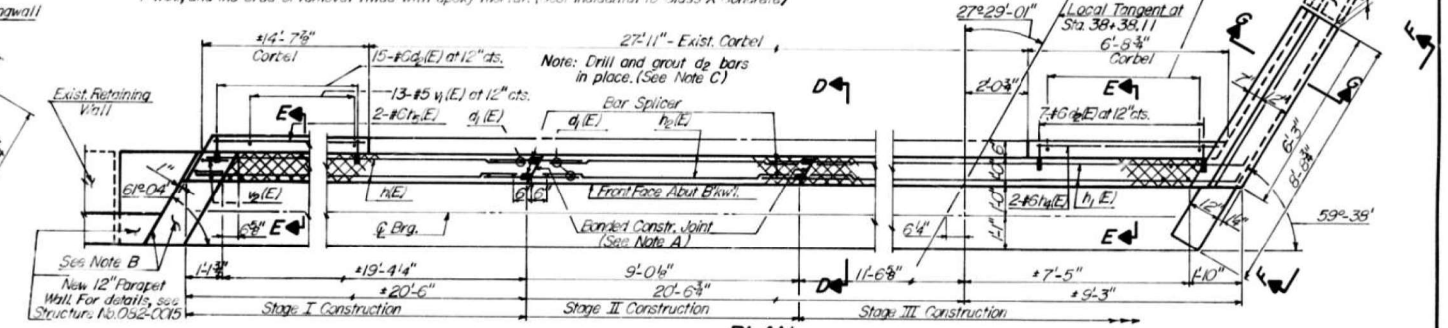
NOTE A:
Bonded Constr. Joint shall be in accordance to Article 504.13(a)(2) of the Standard Specifications.

NOTE B:
Face of Existing Surface shall, after removal of existing concrete, be faced with epoxy mortar as directed by the Engineer. Any exposed reinforcing steel, shall be removed for a depth of 1" min. and the area of removal filled with epoxy mortar. (Cost incidental to Class X Concrete)

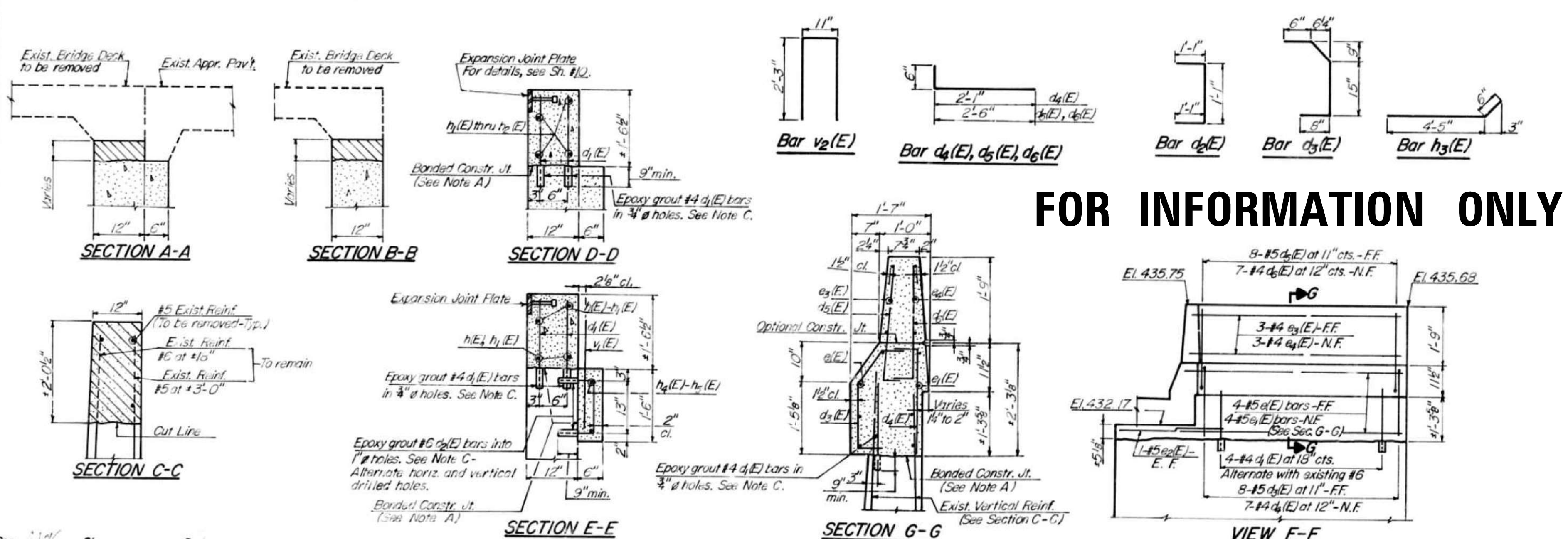


PLAN
DEMOLITION - EAST ABUTMENT

NOTE: Hatched area indicates limits of concrete to be removed. Existing vertical reinforcement extending into the concrete removal area shall be thoroughly cleaned and incorporated into the new work. Cost incidental to Class X Concrete.



PLAN
REHABILITATION - EAST ABUTMENT
Expansion Joint Plate Not Shown



FOR INFORMATION ONLY

BILL OF MATERIAL									
Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
$d_1(E)$	100	#4	2'-2"	—	$v_1(E)$	20	#5	2'-6"	—
$d_2(E)$	22	#6	3'-3"	[	$v_2(E)$	2	#5	5'-5"	⊓
$d_3(E)$	8	#5	3'-4'	)					
$d_4(E)$	7	#4	2'-7"	⅂					
$d_5(E)$	8	#5	3'-0"	└					
$d_6(E)$	7	#4	3'-0"	└					
$e(E)$	4	#5	6'-7"	—					
$e_1(E)$	4	#5	6'-1"	—					
$e_2(E)$	2	#5	4'-0"	—					
$e_3(E)$	3	#4	6'-7"	—					
$e_4(E)$	3	#4	6'-1"	—					
$h(E)$	4	#6	20'-4"	—					
$h_1(E)$	4	#6	13'-8"	—					
$h_2(E)$	4	#6	8'-9"	—					
$h_3(E)$	2	#6	4'-11"	—/					
$h_4(E)$	2	#6	6'-4"	—					
$h_5(E)$	2	#6	14'-0"	—					

Item	Unit	Quantity
Class X Concrete	Cu. Yds.	4.5
Reinf. Bars-Epoxy Coated	Lbs.	830
Concrete Removal	Cu. Yds.	1.9

Reinforcement Bars designated (E) shall be epoxy coated.
For Reinforcement Details not shown, see Sh. #8.

NOTE C:
Holes for epoxy grouted bars shall be drilled to a minmum depth of 9". Use grout approved by the Department or epoxy grout in accordance with BSP-11 (See Special Provisions). The method of grout application shall be approved by the Engineer.

EAST ABUTMENT
REHABILITATION DETAILS
WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2) R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

Des. Ck. Dr.
SANDOVAL ENGINEERS, INC.

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

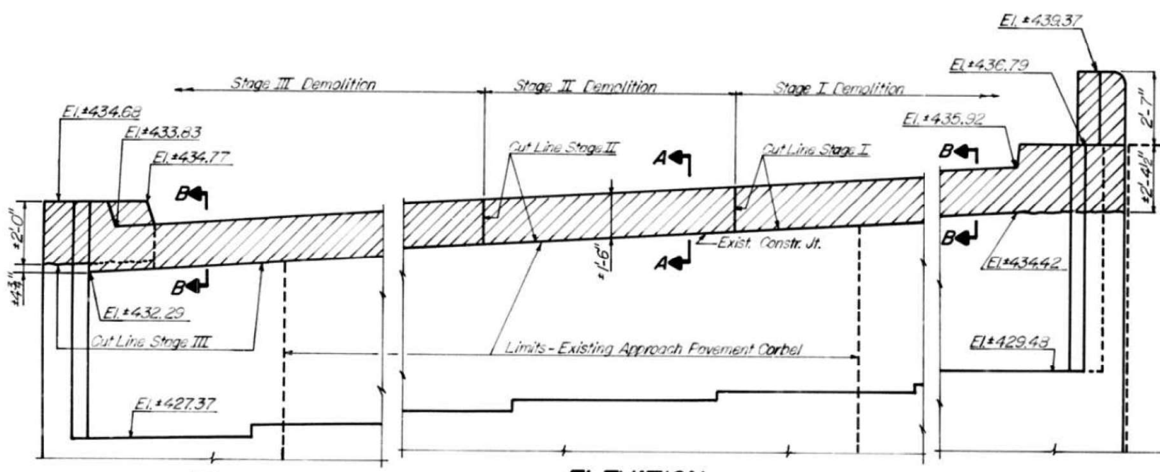
STRUCTURE 082–0001

SCALE: NTS SHEET 6 OF 14 SHEETS STA. TO STA.

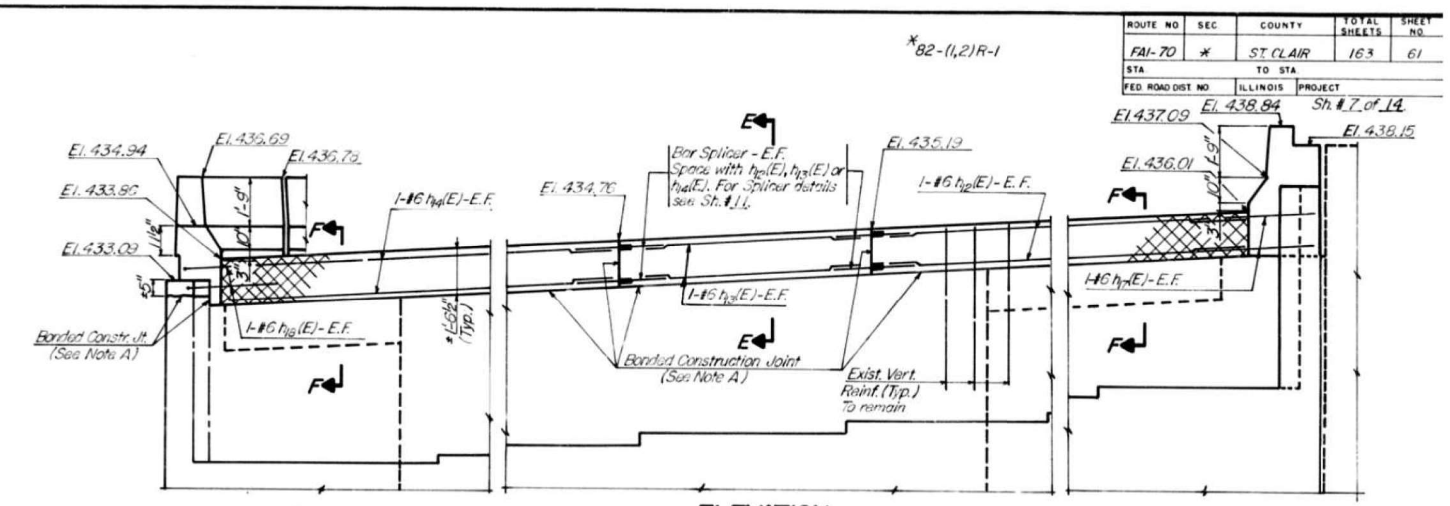
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	54

CONTRACT NO. 76P10

ILLINOIS FED. AID PROJECT

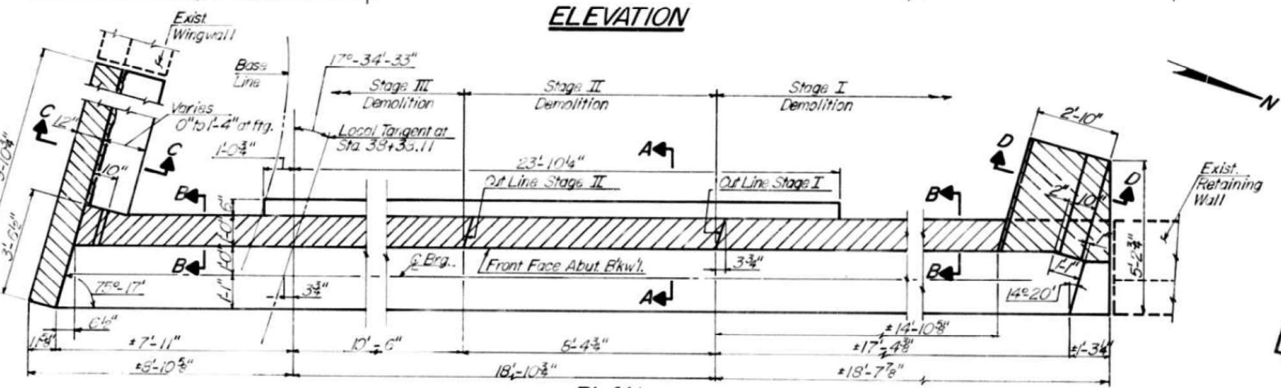


ELEVATION



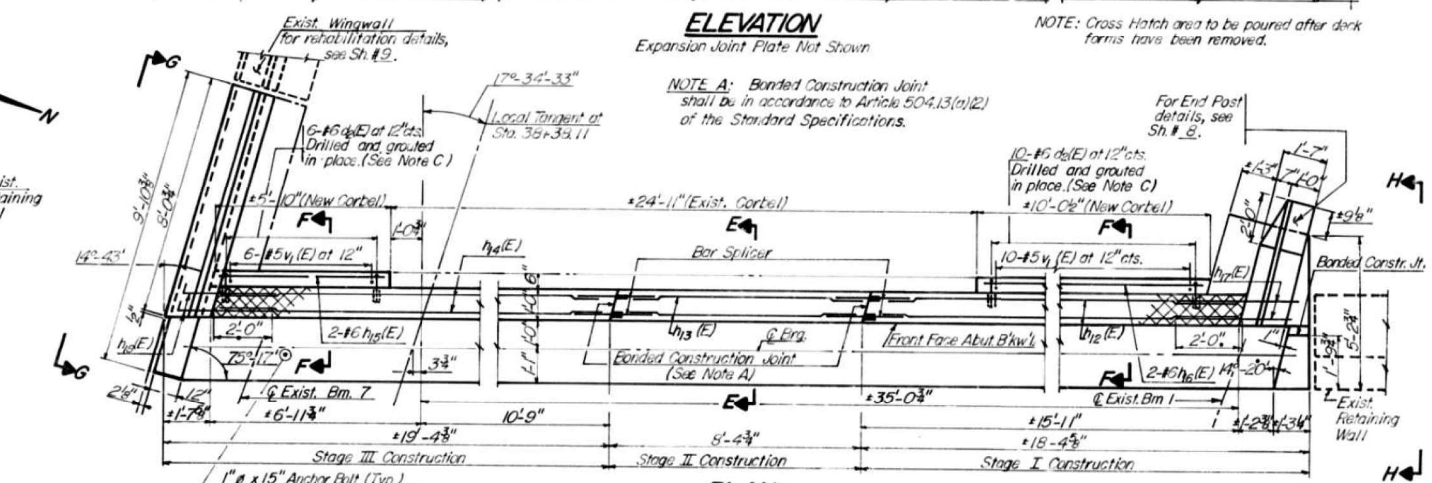
ELEVATION
Expansion Joint Plate Not Shown

NOTE: Cross Hatch area to be poured after deck forms have been removed.



PLAN
DEMOLITION - WEST ABUTMENT

NOTE: Hatched area indicates limits of concrete to be removed. Existing vertical reinforcement extending into the concrete removal area (except as noted) shall be thoroughly cleaned and incorporated into the new work. Cost incidental to Class X Concrete.

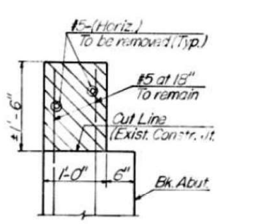


NOTE A: Bonded Construction Joint shall be in accordance to Article 504.13(a)(2) of the Standard Specifications.

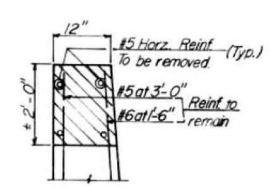
NOTE: For VIEW G-G and VIEW H-H, see Sh. # 8.

PLAN
REHABILITATION - WEST ABUTMENT
Expansion Joint Plate Not Shown

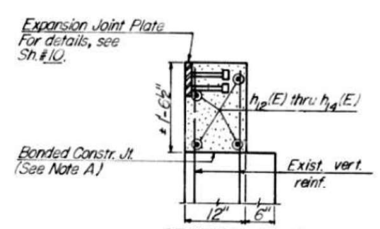
FOR INFORMATION ONLY



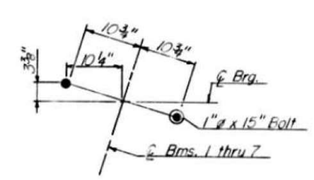
SECTION A-A



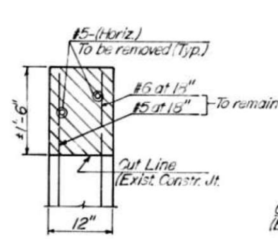
SECTION C-C



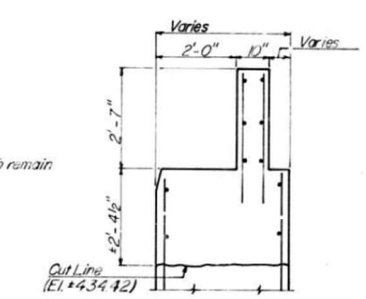
SECTION E-E



ANCHOR BOLT LAYOUT

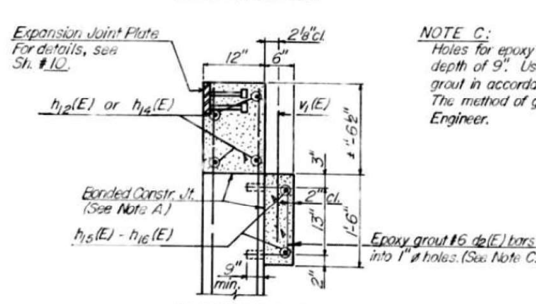


SECTION B-B



SECTION D-D

Note: All exist. reinf. shown to be removed.



SECTION F-F

NOTE C:
Holes for epoxy grouted bars shall be drilled to a minimum depth of 9". Use grout approved by the Department or epoxy grout in accordance with BSP-11 (See Special Provisions). The method of grout application shall be approved by the Engineer.

BILL OF MATERIAL - WEST ABUTMENT

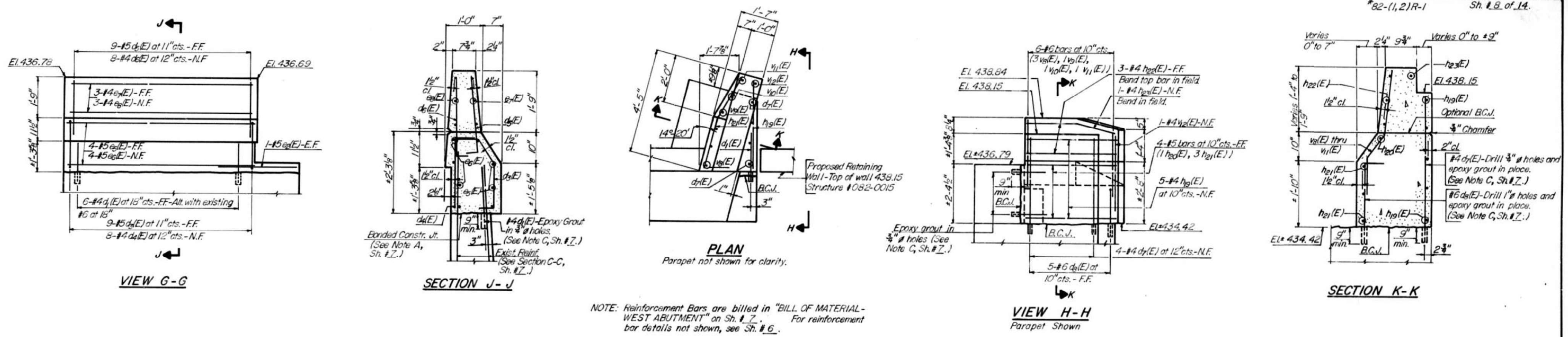
Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
					e_8(E)	3	#4	7'-9"	———					
d_1(E)	9	#4	2'-2"	———						v_1(E)	16	#5	2'-6"	———
d_2(E)	16	#6	3'-3"	[	h_{12}(E)	4	#6	15'-8"	———	v_8(E)	3	#6	4'-2"	
d_3(E)	9	#5	3'-4"	(	h_{13}(E)	4	#6	8'-1"	———	v_9(E)	1	#6	4'-1"	
d_4(E)	8	#4	2'-7"	L	h_{14}(E)	4	#6	17'-6"	———	v_{10}(E)	1	#6	3'-10	
d_5(E)	9	#5	3'-0"	L	h_{15}(E)	2	#6	5'-7"	———	v_{11}(E)	1	#6	3'-2"	
d_6(E)	8	#4	3'-0"	L	h_{16}(E)	2	#6	9'-9"	———	v_{12}(E)	1	#4	3'-9"	———
d_7(E)	4	#4	4'-0"	———	h_{17}(E)	4	#6	4'-0"	———					
d_8(E)	5	#6	3'-0"	Γ	h_{18}(E)	4	#6	3'-10"						
					h_{19}(E)	5	#4	3'-9"	———					
e_2(E)	2	#5	4'-0"	———	h_{20}(E)	1	#5	4'-0"	———					
e_5(E)	4	#5	7'-6"	———	h_{21}(E)	3	#5	4'-2"						
e_6(E)	4	#5	7'-9"	———	h_{22}(E)	3	#4	3'-10"	———					
e_7(E)	3	#4	7'-6"	———	h_{23}(E)	1	#4	4'-0"	———					

ITEM	UNIT	QUANTITY
Class X Concrete	Cu. Yds.	5.2
Reinf. Bars - Epoxy Coated	Lbs.	770.0
Concrete Removal	Cu. Yds.	4.4

NOTE:
Bars marked (E) shall be epoxy coated.
For Reinforcement Bar details see Sh. # 6 and 8.

WEST ABUTMENT
REHABILITATION DETAILS
WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

Des. Ck. Dr.
SANDOVAL ENGINEERS, INC.



NOTE: Reinforcement Bars are billed in "BILL OF MATERIAL-WEST ABUTMENT" on Sh. #7. For reinforcement bar details not shown, see Sh. #6.

SOUTHWEST WING DETAILS

WEST ABUTMENT DETAILS

NORTHWEST END POST DETAILS

Bar	A	B	C	D
$v_8(E)$	1'-6"	0'-10"	1'-8"	7"
$v_9(E)$	1'-6"	0'-9"	1'-8"	6"
$v_{10}(E)$	1'-6"	0'-5"	1'-10"	3½"

NOTE:
B.C.J. = (Bonded Construction Joint)
F.F. = (Far Face)
E.F. = (Each Face)
N.F. = (Near Face)

FOR INFORMATION ONLY

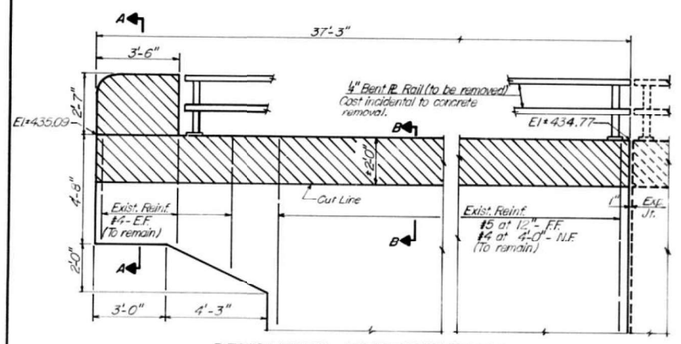
ABUTMENT REHABILITATION DETAILS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2) R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

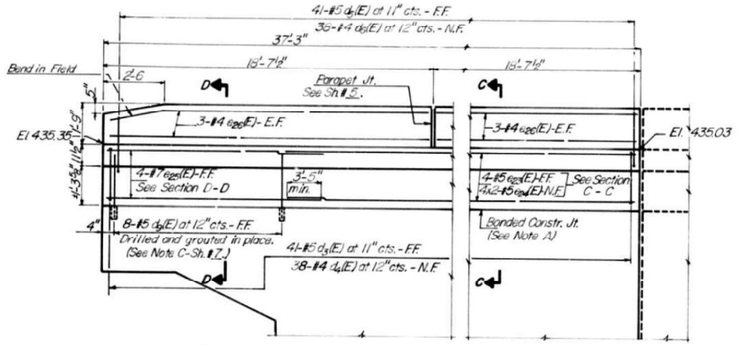
Des. Ck. Dr.
SANDOVAL ENGINEERS, INC.

ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	63
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

*82-(1,2) R-1 Sh. # 9 of 14



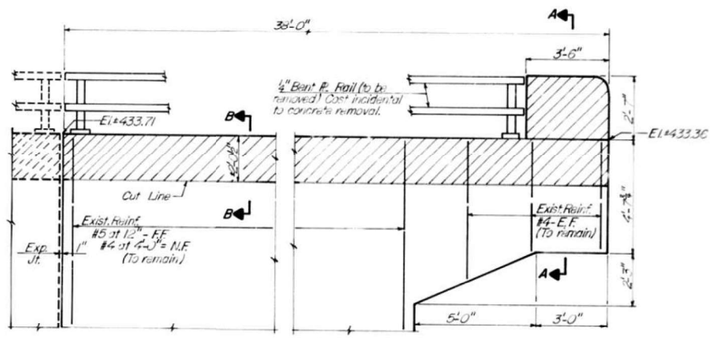
DEMOLITION - WEST WINGWALL



NOTE:
E.F. = (Each Face)
F.F. = (Far Face)
N.F. = (Near Face)

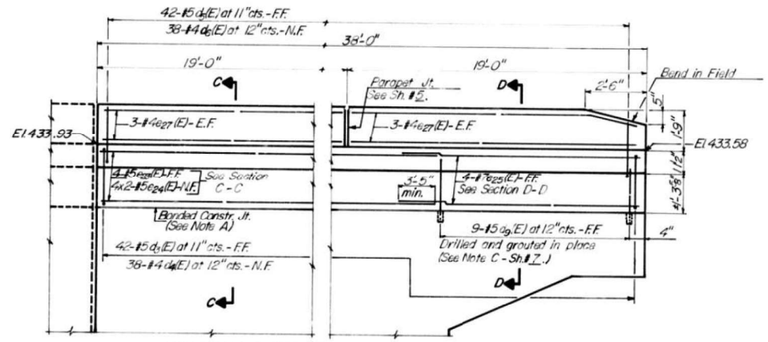
REHABILITATION - WEST WINGWALL

NOTE A :
Bonded Constr. Joint shall be in accordance to Article 504.13 (a) (2) of the Standard Specifications.

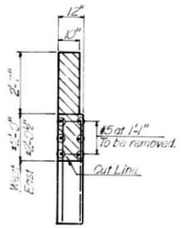


DEMOLITION - EAST WINGWALL

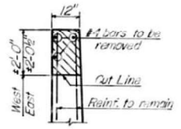
NOTE: Hatched area indicates limits of concrete to be removed. Existing Vertical Reinforcement extending into the Concrete Removal area shall be thoroughly cleaned and incorporated into the new work. Cost incidental to Class X Concrete.



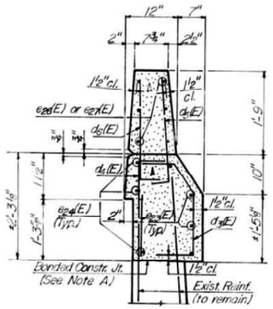
REHABILITATION - EAST WINGWALL



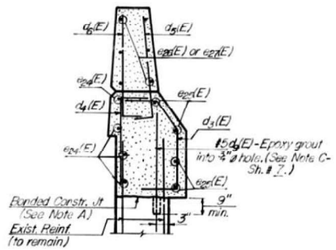
SECTION A-A



SECTION B-B



SECTION C - C



SECTION D - D
For dimensions not shown, see Section C-C.

FOR INFORMATION ONLY

REINFORCEMENT — WINGWALLS

Bar	No.	Size	Length	Shape
d_3(E)	83	#5	3'-4"	
d_4(E)	76	#4	2'-7"	
d_6(E)	83	#5	3'-0"	
d_5(E)	76	#4	3'-0"	
d_7(E)	17	#5	2'-9"	
g_{23}(E)	3	#5	30'-0"	
g_{24}(E)	16	#7	20'-0"	
g_{25}(E)	3	#7	11'-0"	
g_{26}(E)	12	#4	18'-4"	
g_{27}(E)	12	#4	18'-9"	

ITEM	UNIT	QUANTITY
Class X Concrete	Cu. Yds.	12.7
Reinforcement Bars-Epoxy Coated	Lbs.	1,940
Concrete Removal	Cu. Yds.	0.4

NOTE:
For Reinforcement Bar details, see Sh. # 6.

Reinforcement bars designated (E) shall be epoxy coated.

Bars indicated thus, 4 x 2-#5 etc., indicates 4 lines of bars with 2 lengths per line.

WINGWALL REHABILITATION DETAILS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2) R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)

ST. CLAIR CO.

STRUCTURE NO. 082-0001

Des. JPH Ck. Dr.

SANDOVAL ENGINEERS, INC.

MODEL: SMODELNAMES
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USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

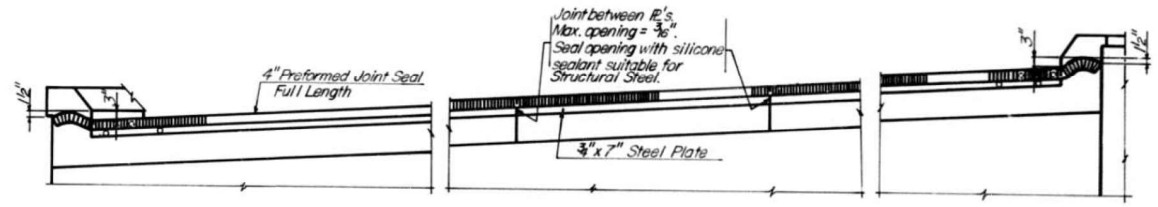
STRUCTURE 082-0001

SCALE: NTS | SHEET 9 OF 14 SHEETS | STA. _____ | TO STA. _____

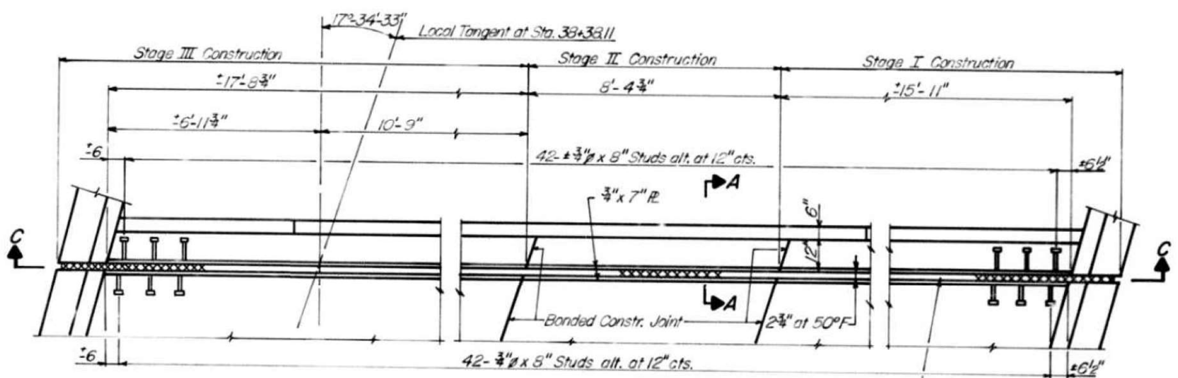
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	57
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	64

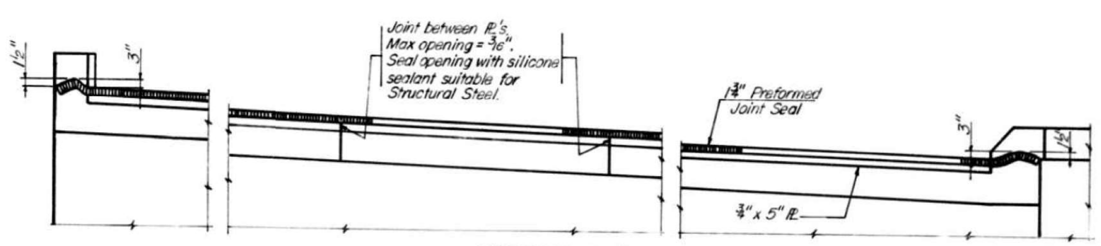
STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS PROJECT
*82-(1,2)R-1 Sh. # 10 of 14.



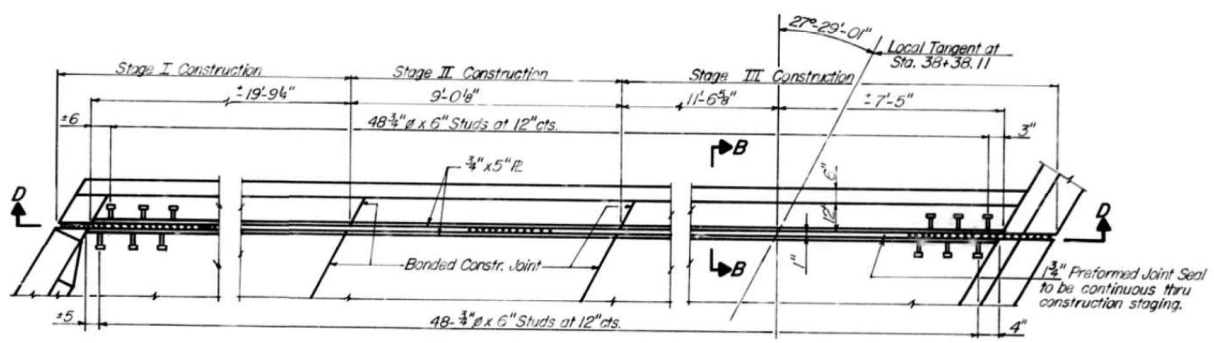
SECTION C-C
Plates for Deck Slab Similar



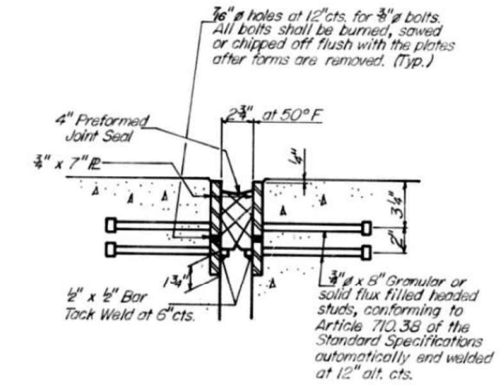
PLAN WEST ABUTMENT
4" PREFORMED JOINT



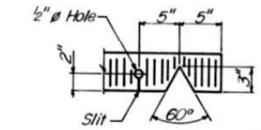
SECTION D-D
Plates for Deck Slab Similar



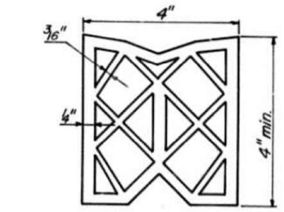
PLAN EAST ABUTMENT
1¾" PREFORMED JOINT



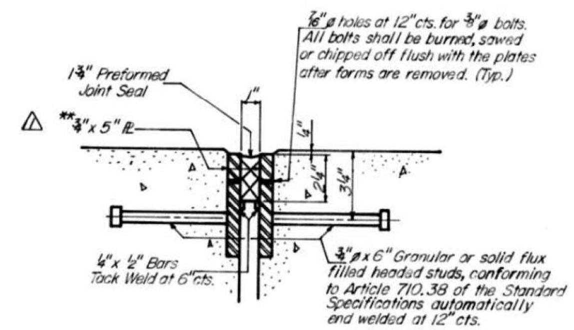
SECTION A-A



SEAL CUT-OUT (4")

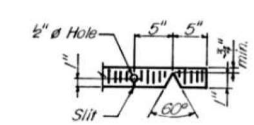


PREFORMED JOINT SEAL (4")

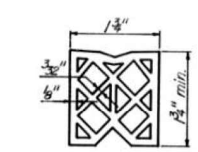


SECTION B-B

△ **Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicon Sealant suitable for Structural Steel.



SEAL CUT-OUT



PREFORMED JOINT SEAL (1¾")

NOTE: After fabrication, all surfaces of the steel plates shall be given one shop coat of zinc silicate primer paint for structural steel.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal (4")	Lin. Ft.	46.0
Preformed Joint Seal (1¾")	Lin. Ft.	50.0

EXPANSION JOINT DETAILS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

FOR INFORMATION ONLY

△ Revised 10/25/90

Dgs. J.J.K. Ck. Dr.
SANDOVAL ENGINEERS, INC.

MODEL: $MODELNAME$
FILE NAME: pw:\\d.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D8762P10\CADData\CADSheets\D876P10-sht-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

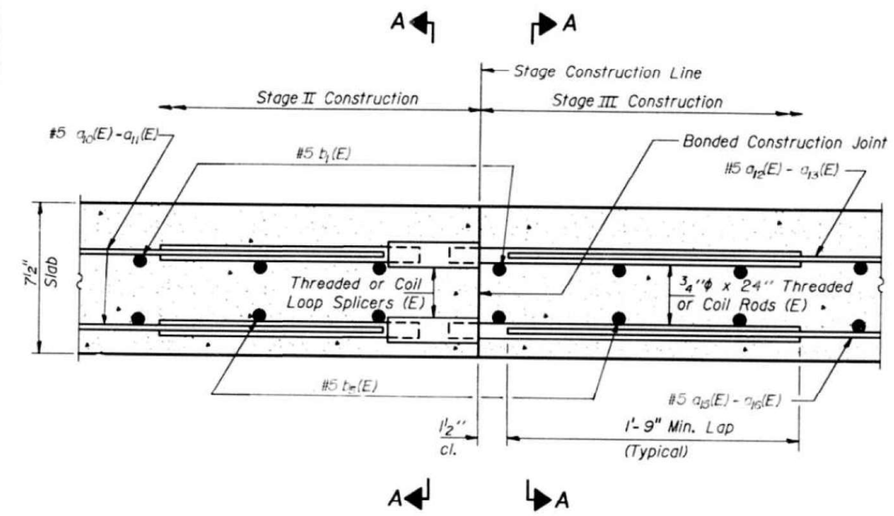
STRUCTURE 082-0001

SCALE: NTS | SHEET 10 OF 14 SHEETS | STA. TO STA.

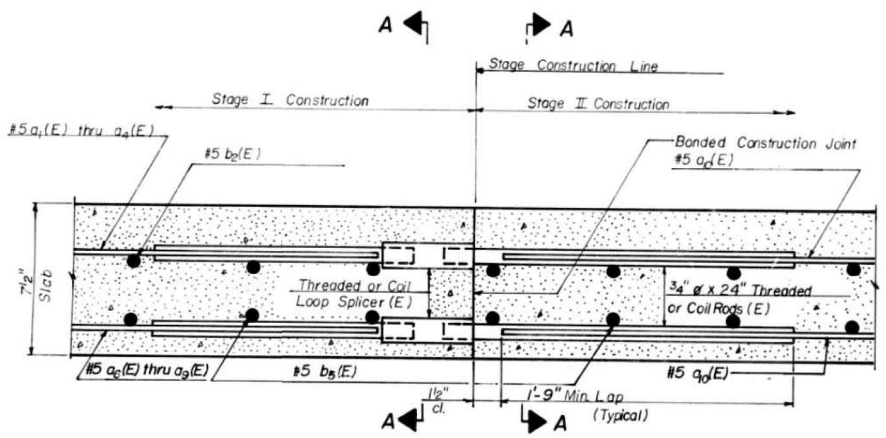
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	58

CONTRACT NO. 76P10
ILLINOIS | FED. AID PROJECT

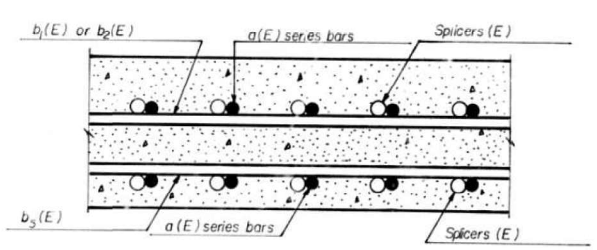
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THRU SLAB
(Stage II - III Construction)



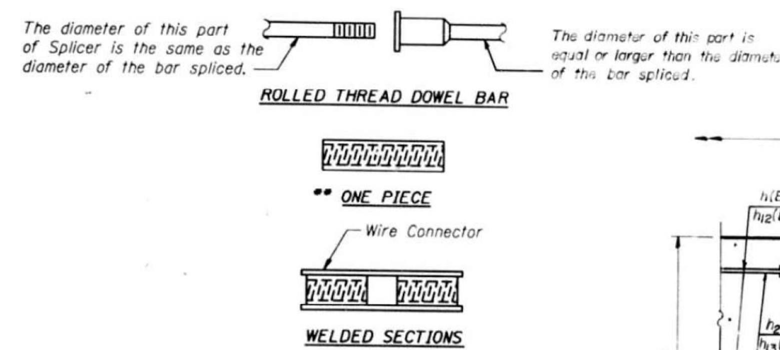
SECTION THRU SLAB
(Stage I - II Construction)



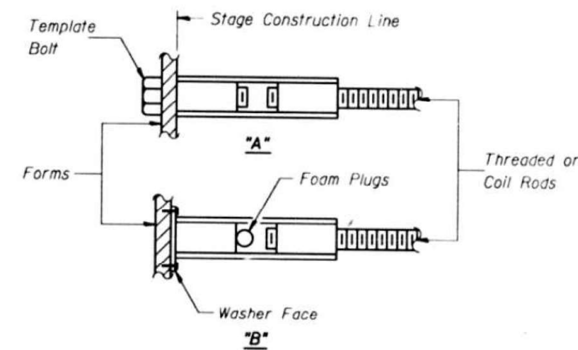
SECTION A-A

SPLICER DETAILS
(No. Req'd. 561)

Cost incidental to Reinforcement Bars (Epoxy Coated)



SPLICER ALTERNATIVES
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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

NOTES

Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal to or greater than that of the lapped reinforcement bars.

All reinforcement bars shall be lapped and tied to the splicer rods.

Splicer (coupler) assemblies shall be epoxy coated in accordance with the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) $= 1.25 \times f_y \times A_t$

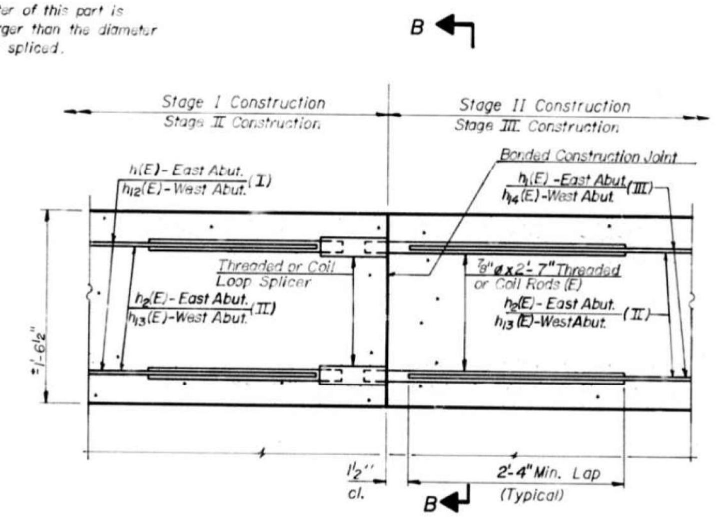
② Minimum *Pull-out Strength (Tension in kips) $= 1.25 \times fs_{allow} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

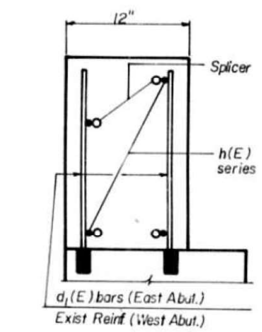
Typical Splicer (Coupler) Assembly Sizes:

In Slabs — #5 bar lap with ¾"ϕ Splicer (Coupler) x 2'-0" Splicer Rods — Minimum Capacity = 23.0 kips-tension; Minimum Pull-out Strength = 9.2 kips-tension

In Sub-Structure — #6 bar lap with ⅞"ϕ Splicer (Coupler) x 2'-7" Splicer Rods — Minimum Capacity = 33.1 kips-tension; Minimum Pull-out Strength = 13.2 kips-tension



ABUTMENT PARAPET WALL
(Looking East)



SECTION B-B

SPLICER DETAILS
(No. Req'd. - 16)

Cost incidental to Reinforcement Bars, (Epoxy Coated)

FOR INFORMATION ONLY

BAR SPLICER (COUPLER) DETAILS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)-R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

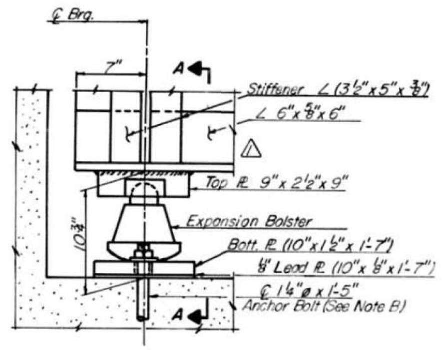
Des. JJM Ck. Dr.
SANDOVAL ENGINEERS, INC.

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-70	*	ST. CLAIR	163	66

STA. TO STA.

FED. ROAD DIST. NO. | ILLINOIS | PROJECT

*82-(1,2)R-1 Sh. # 12 of 14



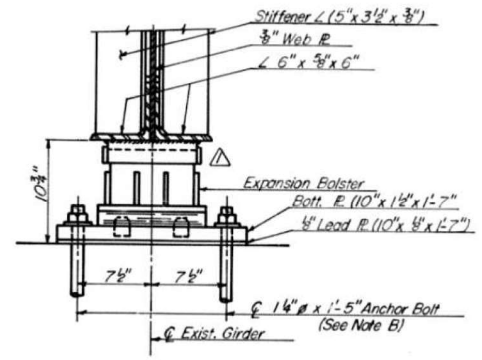
ELEVATION

NOTE: A

Any damage to existing girder during removal of existing top plate shall be repaired as directed by the Engineer. A procedure for repair shall be submitted to the Engineer for approval prior to repair. Cost of any repair required will be at Contractor's expense.

NOTE: B △

Anchor bolts may or may not be in true alignment with ℄ girder brg. due to movement of existing abutment.



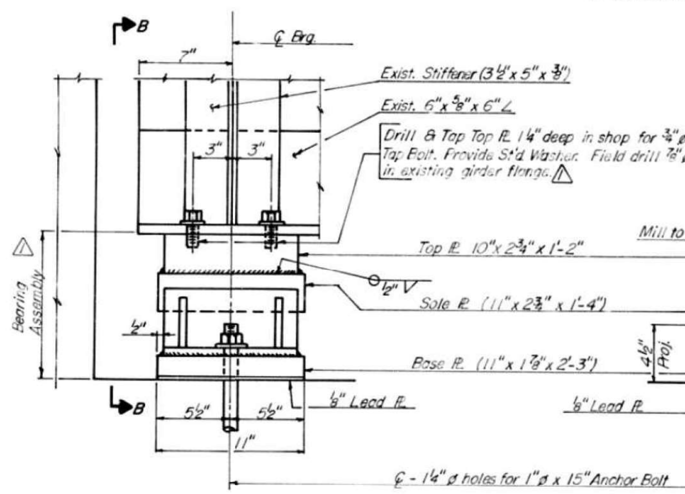
SECTION A-A

EXISTING EXPANSION BEARING - WEST ABUTMENT

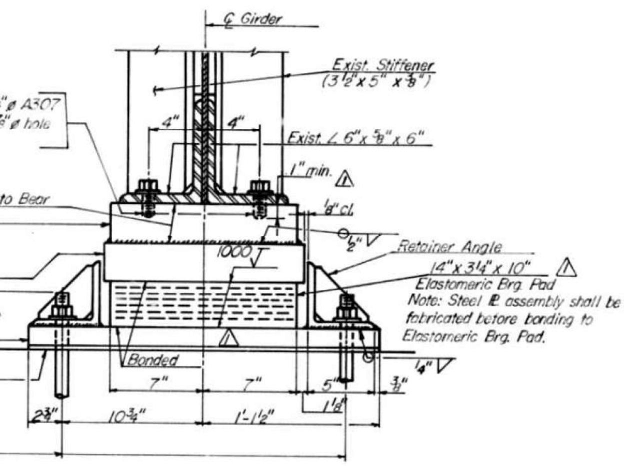
△ Bearings to be removed. (7 Assemblies thus)

JACK AND REMOVE EXISTING BEARING PROCEDURE △

1. Jacking shall be limited to removing and replacement of existing expansion bearings.
2. Maximum lift shall be only amount necessary to remove all or parts of bearings in accordance with jacking procedure submitted for review.
3. Anchor Bolts shall be removed or cut off and ground flush with top of concrete. If Anchor Bolts are removed, existing holes shall be filled with non-shrink grout.
4. Minimum jack capacity shall be 15 Tons.
5. With new bearing in position, new holes shall be drilled through Base Plate for new concrete anchors.
6. Maximum ℞ reaction at Brg. due to Structural Steel = 15 kips.



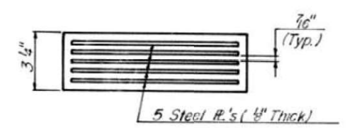
ELEVATION



SECTION B-B

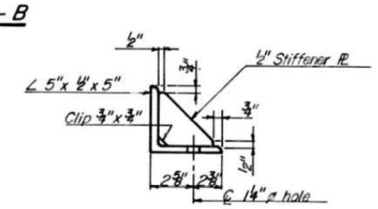
ELASTOMERIC BEARING - TYPE I (SPECIAL)

(7 Required)



ELASTOMERIC BRG. PAD DETAIL

(10" x 3¼" x 14")



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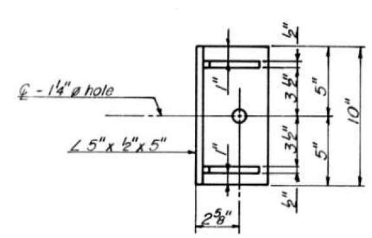


PLAN

RETAINER ANGLE

(14 Required)

GENERAL NOTES

The Elastomeric Bearing Pad shall be bonded to both the Sole Plate and Base Plate.

Surface finishes shown shall conform to surface roughness requirements as defined in ANSI B46-1, Surface Roughness, Waviness and Lay, Part 1.

All Structural Steel required for bearing assemblies shall conform to M183. The Steel shall be shop painted with the ~~three-coat~~ Lead and Chromate Free Alkyd Paint System. The ~~color of the final finish coat shall be Interstate Green (Munsell No. 7.5G 4/8).~~ Cost of the paint system shall be included in the cost of Elastomeric Bearing Assembly Type I (Special). △

△ Installation of Upper Plate to Beam Flange may require some diaphrams with connections to be temporarily removed and replaced after installation of new bearing.

Cost of field drilling of ⅞" ø holes in existing beams shall be incidental to "Elastomeric Bearing Assembly Type I (Special).

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Elastomeric Bearing Assembly Type I (Special)	Each	7
△ Jack & Remove Existing Bearing	Each	7

FOR INFORMATION ONLY

EXPANSION BEARING DETAILS

WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2) R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)

ST. CLAIR CO.

STRUCTURE NO. 082-0001

△ Revised 12/23/90

Des. [signature] Ck. Dr. [signature]

SANDOVAL ENGINEERS, INC.

USER NAME = hughesrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/22/2021	DATE -	REVISED -	

STRUCTURE 082-0001

SCALE: NTS | SHEET 12 OF 14 SHEETS | STA. ______ TO STA. ______

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	60

CONTRACT NO. 76P10

ILLINOIS | FED. AID PROJECT

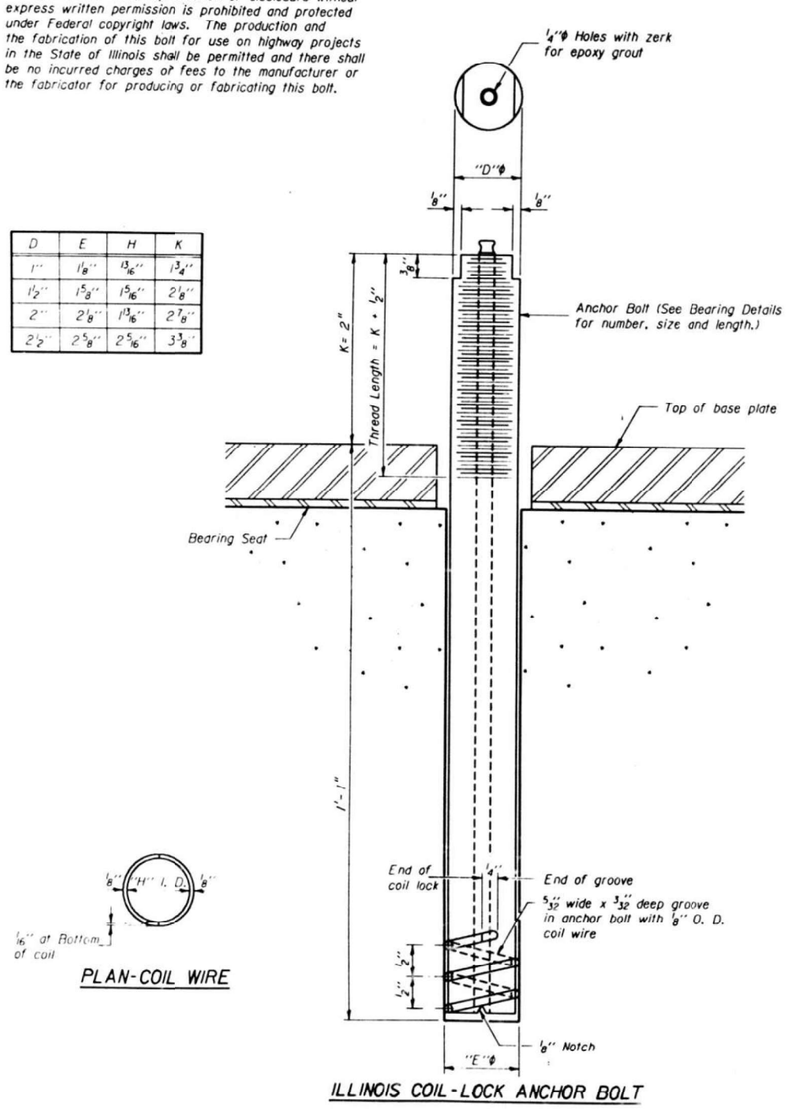
MODEL: $MODELNAME$
FILE NAME: pw://idotpwprod.dot.illinois.gov:IDOTPW/IDOT Documents/IDOT Offices/District 8/Projects/D87 6P10/CADData/CADSheets/D876P10-sht-typical.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	*	ST. CLAIR	163	67
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT.		

SHEET NO. 13 OF 14 SHEETS

*82-(1,2)R-1



D	E	H	K
1"	1 1/8"	13/16"	1 3/4"
1 1/2"	1 5/8"	1 5/16"	2 1/8"
2"	2 1/8"	1 13/16"	2 7/8"
2 1/2"	2 5/8"	2 5/16"	3 3/8"

PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contaminction until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system comforming to ASTM C881, Type I, Grade I and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer conforming to ASTM A307.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

FOR INFORMATION ONLY

DESIGNED	JJW
CHECKED	
DRAWN	
CHECKED	

EXAMINED _____ 19
ENGINEER OF BRIDGE DESIGN
PASSED _____
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED _____
DIRECTOR OF HIGHWAYS

ABB-1 6-15-83

ANCHOR BOLT DETAILS
FOR BEARINGS
W.B. I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1
STA. 38+38.11 (W.B. I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

MODEL: SMODELNAMES
FILE NAME: c:\pwidot\corp\sdot.illinois.gov\NVDOT\Documents\IDOT Offices\District 8\Projects\76P10\CADData\CADSheets\D82761D-sht-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082-0001

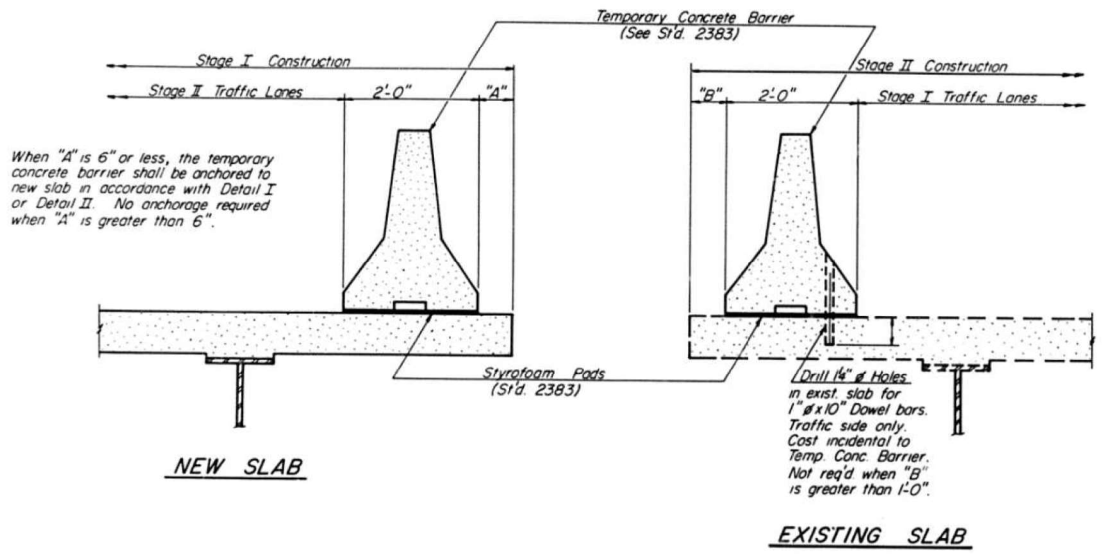
SCALE: NTS | SHEET 13 OF 14 SHEETS | STA. _____ | TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	61
		CONTRACT NO. 76P10		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	*	ST. CLAIR	163	68
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

*82-(1,2)R-1

SHEET NO. 14 OF 14 SHEETS



SECTIONS THRU SLAB

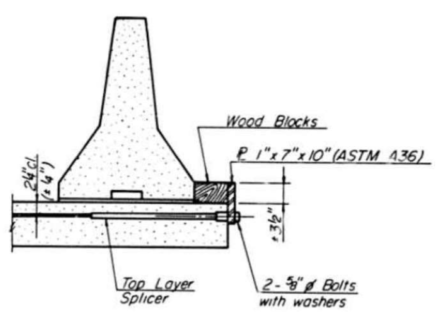
NOTES: Detail I - with Bar Splicer or Couplers:

Connect one (1) 1"x7"x10" steel plate to the top layer of couplers with 2-⅝" ø bolts screwed to coupler at approximate ℄ of each 10'-0" barrier panel.

Detail II - with Extended Reinforcement Bars:

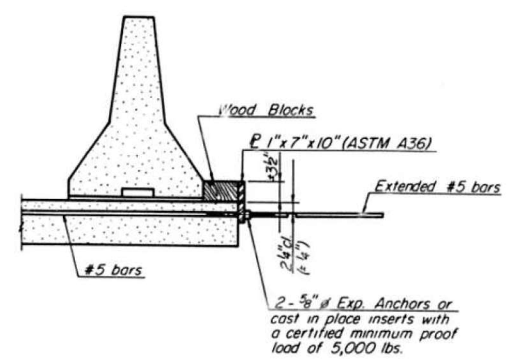
Connect one (1) 1"x7"x10" steel plate to the concrete slab with 2-⅝" ø Exp. Anchors or cast in place inserts spaced between the top layer of reinf. at approximate ℄ of each 10'-0" barrier panel.

Cost of anchorage is incidental to Temporary Concrete Barrier.



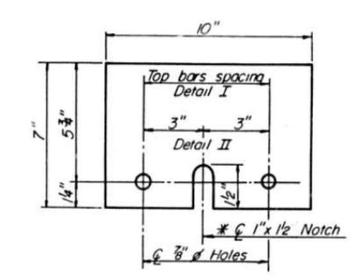
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Constr. forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" Plate shall not be removed until Stage II Constr. forms and all reinf. bars are in place and the concrete is ready to be poured.



℘ 1"x7"x10"

* Req'd only with Detail II

FOR INFORMATION ONLY

TEMPORARY CONCRETE BARRIER
WB I-64 over ST. CLAIR AVE.
SECTION 82-(1,2)R-1
STA. 38+38.11 (WB I-64)
STA. 15+24.09 (ST. CLAIR AVE.)
ST. CLAIR CO.
STRUCTURE NO. 082-0001

Des. Ck. Dr.
SANDOVAL ENGINEERS, INC.

MODEL: $MODELNAME$
FILE NAME: pw:\\idot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D876P10\CADData\CADSheets\D876P10-sht-typical.dgn

USER NAME = hughesrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 44.0925 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE 082–0001

SCALE: NTS | SHEET 14 OF 14 SHEETS | STA. ________ TO STA. ________

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/64	82-2HB-BP-1, 82-3HVB-3BP-1	ST. CLAIR	62	62
		CONTRACT NO. 76P10		
	ILLINOIS FED. AID PROJECT			