

INDEX OF SHEETS

- 1. COVER SHEET
- 2. GENERAL NOTES
- 3 - 4. SUMMARY OF QUANTITIES
- 5. TYPICAL SECTIONS
- 6 - 7. SCHEDULES
- 8. TEMPORARY RUMBLE STRIPS (SPECIAL) DETAILS
- 9. TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
- 10. TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 11. GUARDRAIL / BARRIER WALL DELINEATION DETAILS
- 12. TEMPORARY INFORMATION SIGNING
- 13 - 18. EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 053-0116 FOR INFORMATION ONLY
- 19 - 24. EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 053-0019 FOR INFORMATION ONLY

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701400-12 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901-10 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

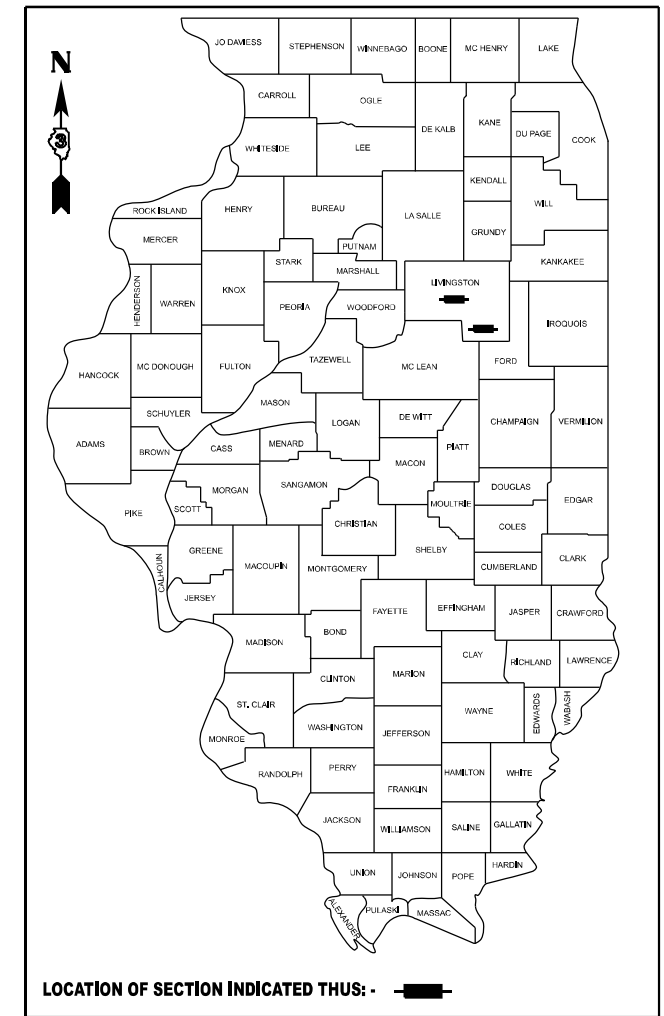
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
HIGHWAY PLANS**

**F.A.I. ROUTE 55 (I-55), F.A.P. ROUTE 317 (US 24)
(53-5HB-3)BP-2, (26BR)BP-1
PROJECT NHPP XXU5(546)
BRIDGE PAINTING
LIVINGSTON COUNTY
C-93-024-25**

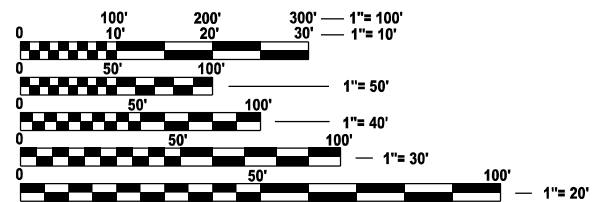
F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	1
		ILLINOIS	CONTRACT NO. 66P81	

D-93-004-25



PROJECT LOCATION NO. 1

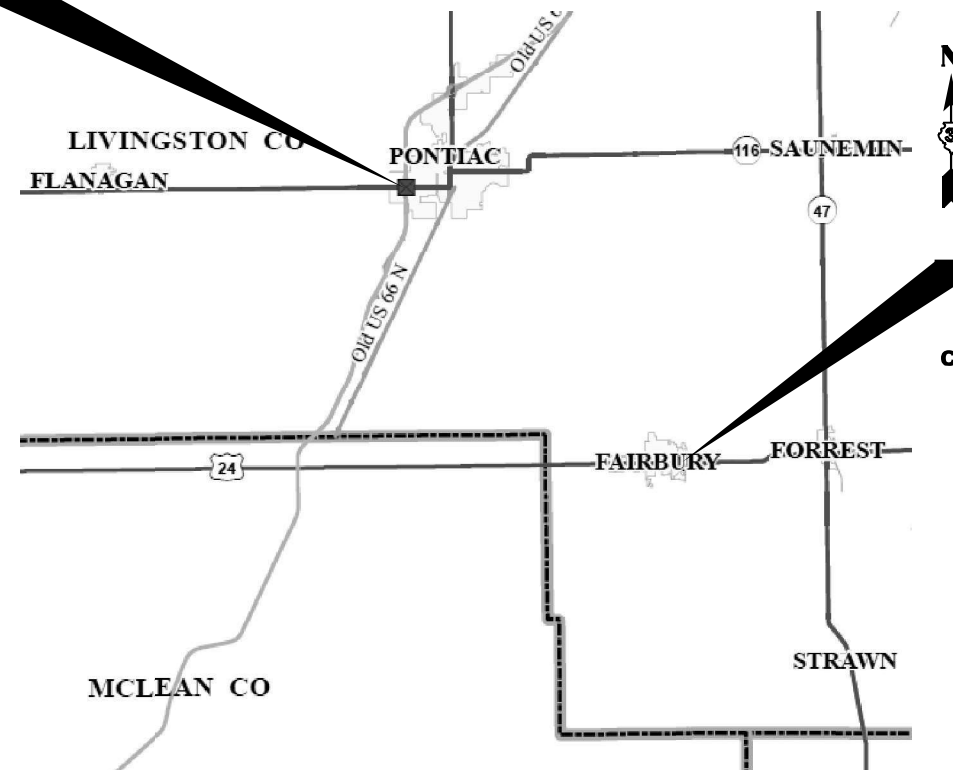
**STRUCTURE NO. 053-0116
SECTION (53-5HB-3)BP-2
STA. 110+24
CARRYING F.A.P. ROUTE 673 (IL 116)
OVER F.A.I. ROUTE 55 (I-55)
1.0 MILE WEST OF PONTIAC**



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

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

**PROJECT ENGINEER: YOGESH PATEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT NO.3 (815) 434-6131
CONTRACT NO. 66P81**



PROJECT LOCATION NO. 2

**STRUCTURE NO. 053-0019
SECTION (26BR)BP-1
STA. 237+79
CARRYING F.A.P. ROUTE 317 (US 24)
OVER INDIAN CREEK
AT THE EAST EDGE OF FAIRBURY**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 16, 2024

Trisha Thompson
REGIONAL ENGINEER

December 6, 2024

Scott A. Clark
ENGINEER OF DESIGN AND ENVIRONMENT

December 6, 2024

James J. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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.

THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CANNOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR OR SUBCONTRACTOR LICENSED TO DISPOSE OF LEAD OR NON-LEAD PAINT CLEANING RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LICENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE LEAD OR NON-LEAD PAINT CLEANING RESIDUES ON OR BEFORE THE SPECIFIED NUMBER OF WORKING DAYS, LIQUATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUB TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN REMOVED OFF THE SITE AND DISPOSED OF.

STRUCTURE NOTES

STRUCTURE NO. 053-0116 SHALL BE CONSIDERED AS "LOCATION 1".

EXISTING STRUCTURAL STEEL COATING(S) ON STRUCTURE NO. 053-0116 ARE LEAD BASED COATINGS, THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH LEAD PAINT ON THIS STRUCTURE. CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" AND AS SPECIFIED BELOW.

SSPC-QP1 AND SSPC-QP2 "PAINTING CONTRACTOR CERTIFICATIONS" SHALL BE REQUIRED FOR THIS STRUCTURE.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS STRUCTURE. TH CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. LOCATION OF THE MONITORS SHALL BE AS DIRECTED BY THE ENGINEER.

(a) ALL EXISTING STRUCTURAL STEEL, INCLUDING I-BEAMS, BOX BEAMS, GIRDERS, DIAPHRAGMS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF EXISTING BEARINGS, STEEL FLOOR DRAINS (WHEN PRESENT), STEEL HANDRAILS (WHEN PRESENT) SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

ALUMINUN HANDRAILS, WHEN PRESENT SHALL NOT BE CLEANED AND PAINTED.

(b) ALL EXISTING STRUCTURAL STEEL, INCLUDING I-BEAMS, BOX BEAMS, GIRDERS, DIAPHRAGMS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF EXISTING BEARINGS, STEEL FLOOR DRAINS (WHEN PRESENT), STEEL HANDRAILS (WHEN PRESENT) SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1-OZ/E/U".

1) THE FINAL FINISH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL O. 5B 7/1".

2) THE FINAL FINISH COAT FOR THE EXTERIOR FACE, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 1/2".

STRUCTURE NOTES

STRUCTURE NO. 053-0019 SHALL BE CONSIDERED AS "LOCATION 2".

EXISTING STRUCTURAL STEEL COATING(S) ON STRUCTURE NO. 053-0019 ARE LEAD BASED COATINGS, THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH LEAD PAINT ON THIS STRUCTURE. CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" AND AS SPECIFIED BELOW.

SSPC-QP1 AND SSPC-QP2 "PAINTING CONTRACTOR CERTIFICATIONS" SHALL BE REQUIRED FOR THIS STRUCTURE.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS STRUCTURE. TH CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. LOCATION OF THE MONITORS SHALL BE AS DIRECTED BY THE ENGINEER.

(a) ALL EXISTING STRUCTURAL STEEL, INCLUDING I-BEAMS, BOX BEAMS, GIRDERS, DIAPHRAGMS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF EXISTING BEARINGS, STEEL FLOOR DRAINS (WHEN PRESENT), STEEL HANDRAILS (WHEN PRESENT) SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

ALUMINUN HANDRAILS, WHEN PRESENT SHALL NOT BE CLEANED AND PAINTED.

(b) ALL EXISTING STRUCTURAL STEEL, INCLUDING I-BEAMS, BOX BEAMS, GIRDERS, DIAPHRAGMS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF EXISTING BEARINGS, STEEL FLOOR DRAINS (WHEN PRESENT), STEEL HANDRAILS (WHEN PRESENT) SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1-OZ/E/U".

1) THE FINAL FINISH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL O. 5B 7/1".

2) THE FINAL FINISH COAT FOR THE EXTERIOR FACE, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 1/2".

COMITTMENTS

NONE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

**START & END DATES
OF CONSTRUCTION:**

INSPECTORS:

FUNCTIONAL CLASSIFICATION

STRUCTURE NO. 053-0116

URBAN	URBAN
INTERSTATE	OTHER PRINCIPLE ARTERIAL
F.A.I. ROUTE 39 (I-39)	F.A.P. ROUTE 673 (IL 116)
2021 ADT = 20,500	2021 ADT = 5,050
P.V. 66.1 % S.U. 3.9 % M.U. 30.0 %	P.V. 88.8 % S.U. 6.4 % M.U. 4.8 %

FUNCTIONAL CLASSIFICATION

STRUCTURE NO. 053-0019

URBAN
OTHER PRINCIPAL ARTERIAL
F.A.P. ROUTE 317 (US 24)
2021 ADT = 2,200
P.V. 79.6 % S.U. 6.8 % M.U. 13.6 %

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	2
CONTRACT NO. 66P81				
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: c:\pwworking\woodshank\1021649166P81.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING 90% FED 10% STATE	BRIDGE PAINTING 80% FED 20% STATE
				BRIDGE 0047	BRIDGE 0047
				S.N. 053-0116	S.N. 053-0019
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2		2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	470	400	70
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	155	132	23
70400100	TEMPORARY CONCRETE BARRIER	FOOT	850	475	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1425	1425	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	1	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	3	
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2880	2160	720
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1170	1000	170
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1545	1220	325

*SPECIALITY ITEMS

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\102164968\66P81.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	3
			CONTRACT NO. 66P81	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING 90% FED 10% STATE	BRIDGE PAINTING 80% FED 20% STATE
				BRIDGE 0047	BRIDGE 0047
				S.N. 053-0116	S.N. 053-0019
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1	
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1		1
X7010118	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	14	8	6
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 70'321 (SPECIAL)	EACH	1		1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 70'402 (SPECIAL)	EACH	1	1	
X7010520	TRAFFIC CONTROL AND PROTECTION, STANDARD 70'201 (SPECIAL)	L SUM	1	1	
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	42		42
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\102164968\66P81.dgn

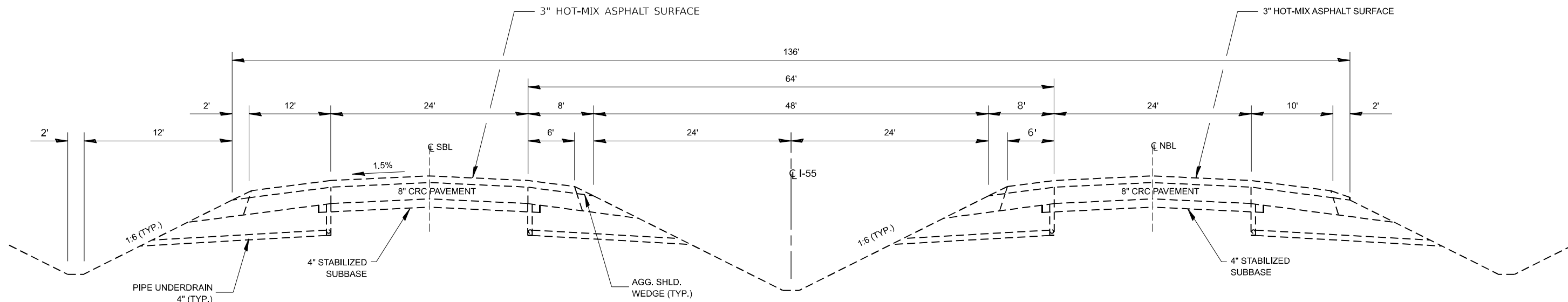
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 8/23/2024	DATE - 5/23/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

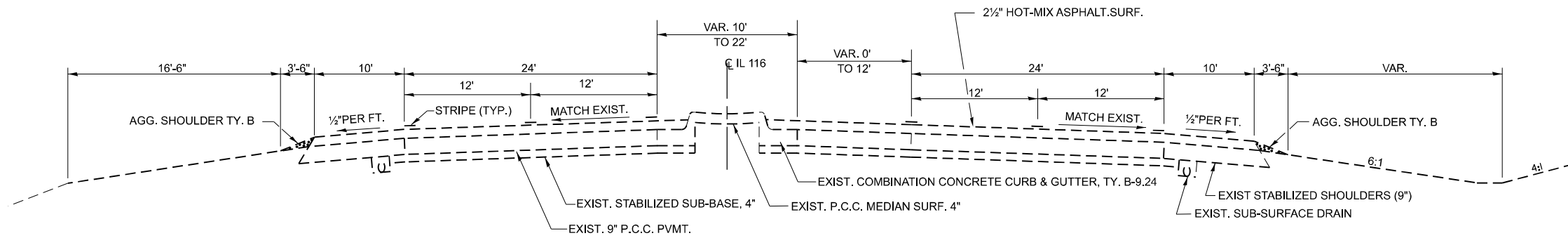
SUMMARY OF QUANTITIES

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

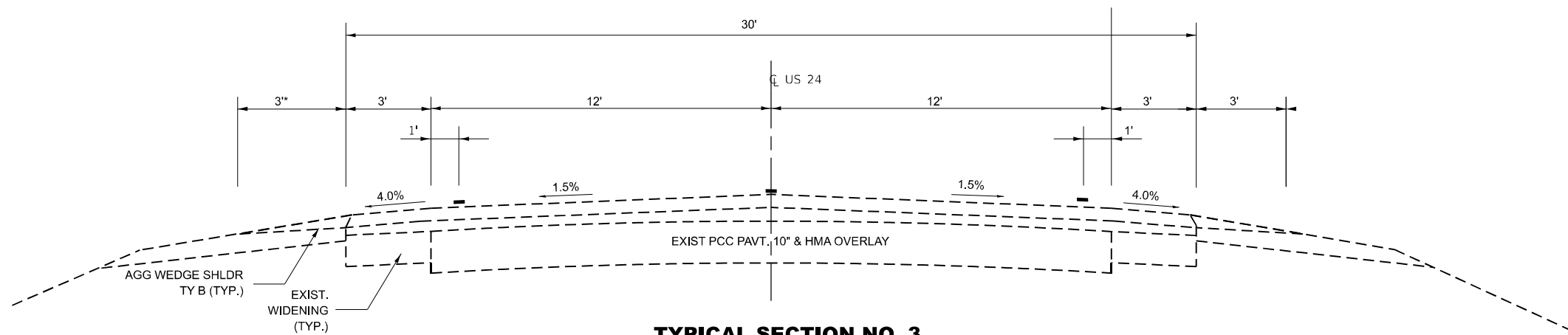
F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	4
			CONTRACT NO. 66P81	
ILLINOIS		FED. AID PROJECT		



TYPICAL SECTION NO. 1
LOCATION NO. 1 - F.A.I.57 (I-55)
MILE MARKER 257.08 - MILE MARKER 263.51



TYPICAL SECTION NO. 2
LOCATION NO. 1 - F.A.P. ROUTE 673 (IL 116)



TYPICAL SECTION NO. 3
LOCATION NO. 2 - F.A.P. ROUTE 317 (US 24)

STA 229+55.00 TO STA 236+51.50
 BRIDGE OMISSION - SN 053-0019 - STA 236+51.50 TO STA 239+09.91
 STA 239+09.91 TO STA 239+75.00

MODEL: Default
 FILE NAME: c:\pwworking\woodshank\102164966P81.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	5
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201 (SPECIAL)	TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)	TRAFFIC CONTROL AND PROTECTION STANDARD 701411	CHANGEABLE MESSAGE SIGN	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE NON-REDIRECTIVE, NARROW TEST LEVEL 3
SN 053-0116	L SUM	EACH	EACH	CAL DA	EACH	FOOT	FOOT	EACH	EACH
NB PASSING LANE	0.5	0.5		14	2	475		1	
NB DRIVING LANE			1		2		475		1
SB PASSING LANE	0.5	0.5		14	2		475		1
SB DRIVING LANE			1		2		475		1
TOTAL	1	1	2	28	8	475	1425	1	3

SCHEDULE - PAVEMENT MARKING

LOCATION	SHORT TERM PAVEMENT MARKING	MODIFIED URETHANE PAVEMENT MARKING LINE 4"		MODIFIED URETHANE PAVEMENT MARKING LINE 6"	PAVEMENT MARKING REMOVAL WATERBLASTING		SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT	SQ FT
SN 053-0116	WHITE	YELLOW	WHITE	WHITE	LINE 4"	LINE 6"	
NB PASSING LANE	200	540		500	180	250	66
NB DRIVING LANE			540		180		
SUBTOTAL	200	540	540	500	360	250	66
SB PASSING LANE	200	540		500	180	250	66
SB DRIVING LANE			540		180		
SUBTOTAL	200	540	540	500	360	250	66
TOTAL	400	2160		1000	1220		132

SCHEDULE - CLEANING AND PAINTING

LOCATION	CONTAINMENT AND DISPOSAL NON-LEAD PAINT CLEANING RESIDUES NO. 1	CLEANING AND PAINTING STEEL BRIDGE NO. 1	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1
SN 053-0116	L SUM	L SUM	EACH
TOTAL	1	1	1

MODEL: Default
FILE NAME: c:\pwworking\woodshank\102164916\F81.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 8/21/2024	DATE - 5/23/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES
FOR STRUCTURE NO. 053-0116**

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	6
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TRAFFIC CONTROL AND PROTECTION STANDARD 701321 (SPECIAL)	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY INFORMATION SIGN	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3
SN 053-0019	L SUM	EACH	EACH	SQ FT	EACH	FOOT	EACH
PROJECT	1	1	1	42	6	375	2
TOTAL	1	1	1	42	6	375	2

SCHEDULE - PAVEMENT MARKING

LOCATION	SHORT TERM PAVEMENT MARKING	MODIFIED URETHANE PAVEMENT MARKING LINE 4"		MODIFIED URETHANE PAVEMENT MARKING LINE 6"	PAVEMENT MARKING REMOVAL WATERBLASTING		SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT		FOOT	SQ FT		SQ FT
SN 053-0116	WHITE	WHITE	WHITE	YELLOW	LINE 4"	LINE 6"	SQ FT
EASTBOUND LANE	70	360		170	120	85	23
WESTBOUND LANE			360		120		
SUBTOTAL	70	360	360	170	240	85	23
TOTAL	70	720		170	325		23

SCHEDULE - CLEANING AND PAINTING

LOCATION	CONTAINMENT AND DISPOSAL NON-LEAD PAINT CLEANING RESIDUES NO. 2	CLEANING AND PAINTING STEEL BRIDGE NO. 2	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2
SN 053-0019	L SUM	L SUM	EACH
TOTAL	1	1	1

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\1021649166\F81.dgn

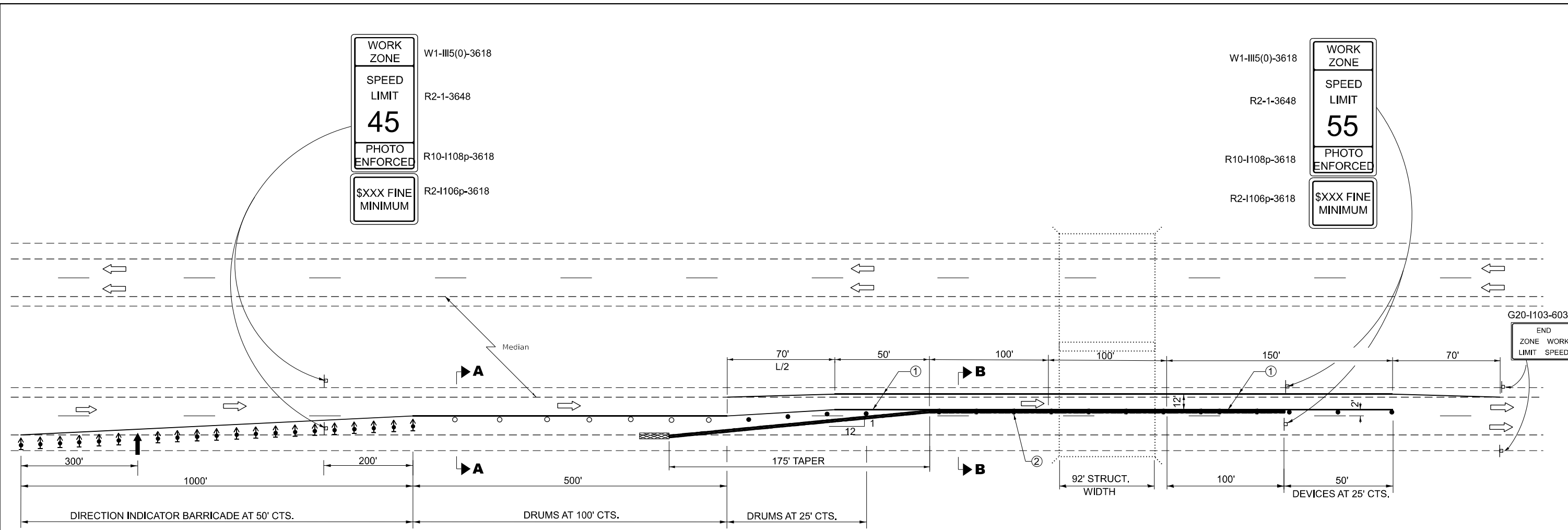
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 8/21/2024	DATE - 5/23/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES
FOR STRUCTURE NO. 053-0019**

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	7
			CONTRACT NO. 66P81	
ILLINOIS FED. AID PROJECT				



G20-1103-6036
END ZONE WORK LIMIT SPEED

SEQUENCE OF LANE CLOSURES

1. NORTHBOUND DRIVE LANE - INITIAL LANE CLOSURE SET-UP
2. NORTHBOUND PASSING LANE - RELOCATED TRAFFIC CONTROL
3. SOUTHBOUND DRIVE LANE - RELOCATED TRAFFIC CONTROL FROM NORTHBOUND LANES
4. SOUTHBOUND PASSING LANE - RELOCATED TRAFFIC CONTROL

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

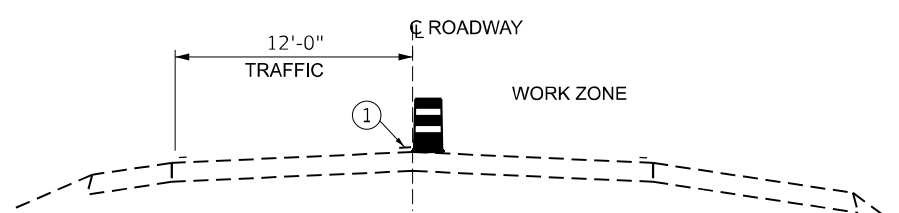
CALCULATE L AS FOLLOWS:

NORMAL POSTED SPEED: 45 MPH OR MORE

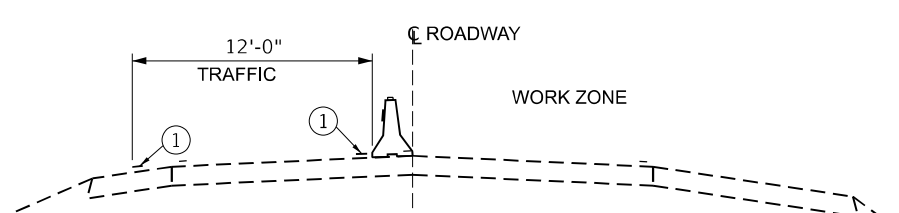
FORMULA: ENGLISH $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET.

S = NORMAL POSTED SPEED IN MPH.



SECTION A-A



SECTION B-B

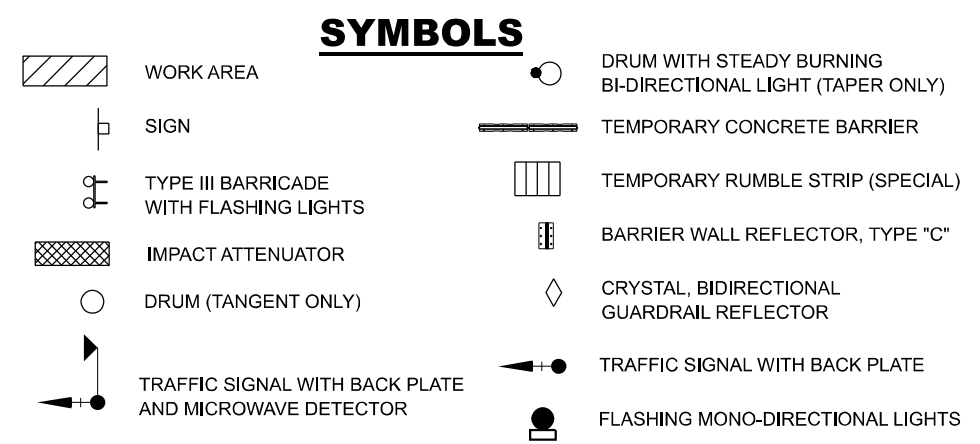
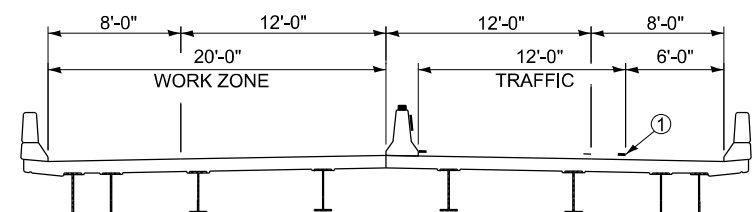
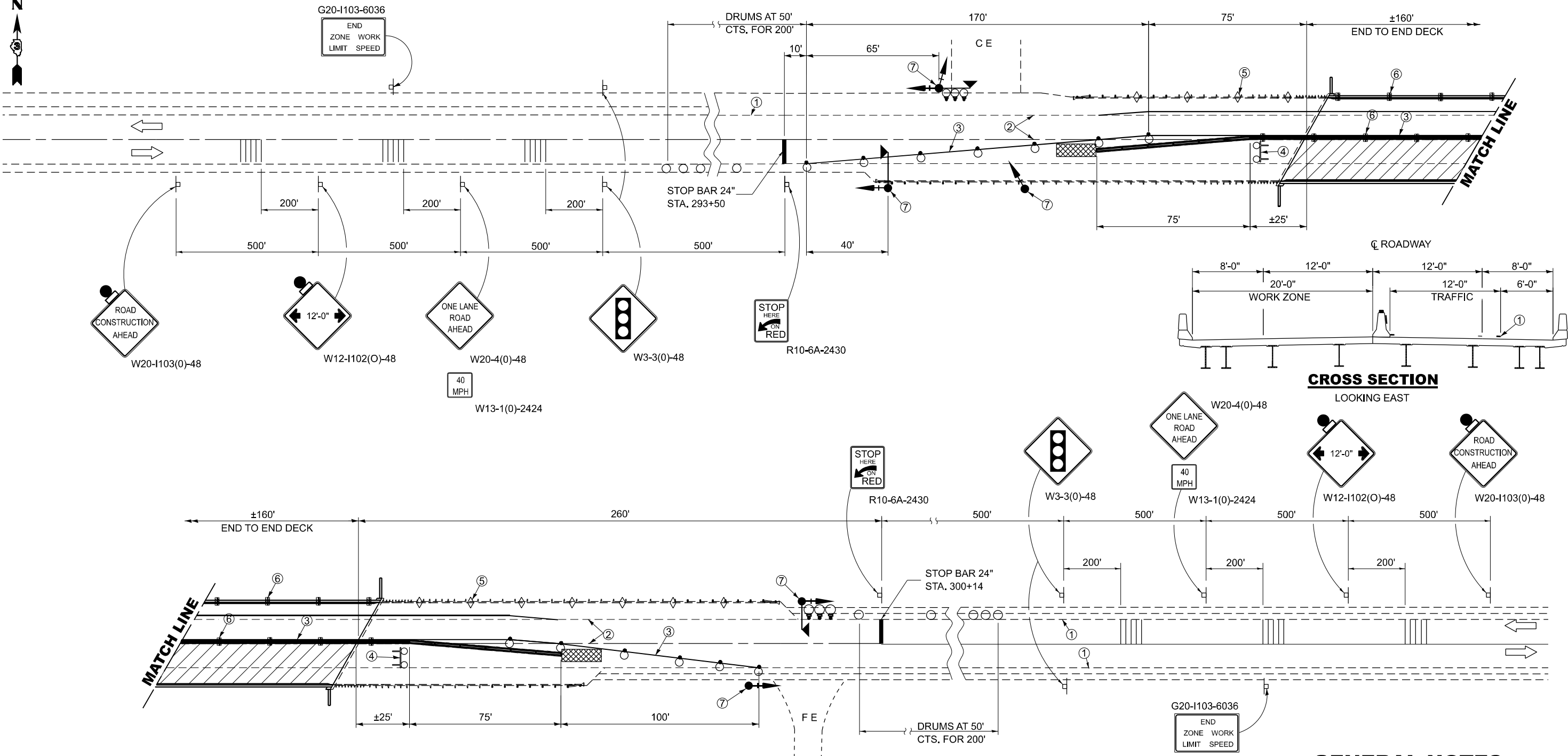
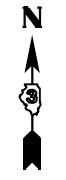
SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⊥ SIGN
- ↑ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL GUARDRAIL REFLECTOR
- ▨ IMPACT ATTENUATOR
- DRUM

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL REFLECTORS TYPE "C" AT 25' CTS. REFLECTORS ON RIGHT SHALL BE CRYSTAL AND REFLECTORS ON LEFT SHALL BE AMBER. SEE STANDARDS 704001, 782006 AND GUARDRAIL / BARRIER WALL DELINEATION DETAIL SHEET XX OF XX.
- ③ GUARDRAIL REFLECTORS TYPE "A" AT 25' CTS. REFLECTORS SHALL BE CRYSTAL. SEE STANDARD 782006 AND GUARDRAIL / BARRIER WALL DELINEATION DETAIL SHEET XX OF XXX

MODEL: Default
FILE NAME: c:\pwworking\woodshank\1021649166\F81.dgn

USER NAME = ronald.woodshank DESIGNED - RW DRAWN - RW CHECKED - YP PLOT DATE = 7/24/2024	DESIGNED - RW REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL) FOR LOCATION 1 - STRUCTURE NO. 053-0116	F.A.I. F.A.P. RTE. 55, 317	SECTION (53-5HB-3)BP-2, (26BR)BP-1	COUNTY LIVINGSTON	TOTAL SHEETS 24	SHEET NO. 8
	DATE - 5/21/2024 REVISIONS -			CONTRACT NO. 66P81				
	REVISIONS -			ILLINOIS FED. AID PROJECT				
	REVISIONS -			SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.				



- ① EXISTING PAVEMENT MARKING (EDGE LINE)
- ② PAVEMENT MARKING REMOVAL (STOP BAR TO STOP BAR)
- ③ TEMPORARY PAVEMENT MARKING
- ④ TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ⑤ GUARDRAIL REFLECTORS, TYPE "A" AT 25' CTS. SEE STANDARD 782006 AND GUARDRAIL / BARRIER WALL DELINEATION DETAIL SHEET 11 OF 24
- ⑥ BARRIER WALL REFLECTORS TYPE "C" AT 25' CTS. SEE SHEET 11 OF 24 AND STANDARDS 704001.
- ⑦ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6" FROM EDGE OF SHOULDER.
- ⑧ VERTICAL PANELS AT 25' CTS. THROUGHOUT LANE SHIFT. THESE DEVICES MAY BE OMITTED WHEN THE GUARDRAIL WITH REFLECTORS EXTENDS TO AT LEAST THIS POINT ON THE TAPER.

GENERAL NOTES

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

MODEL: Default
FILE NAME: C:\pwworking\woodshank\102164968P81.dgn

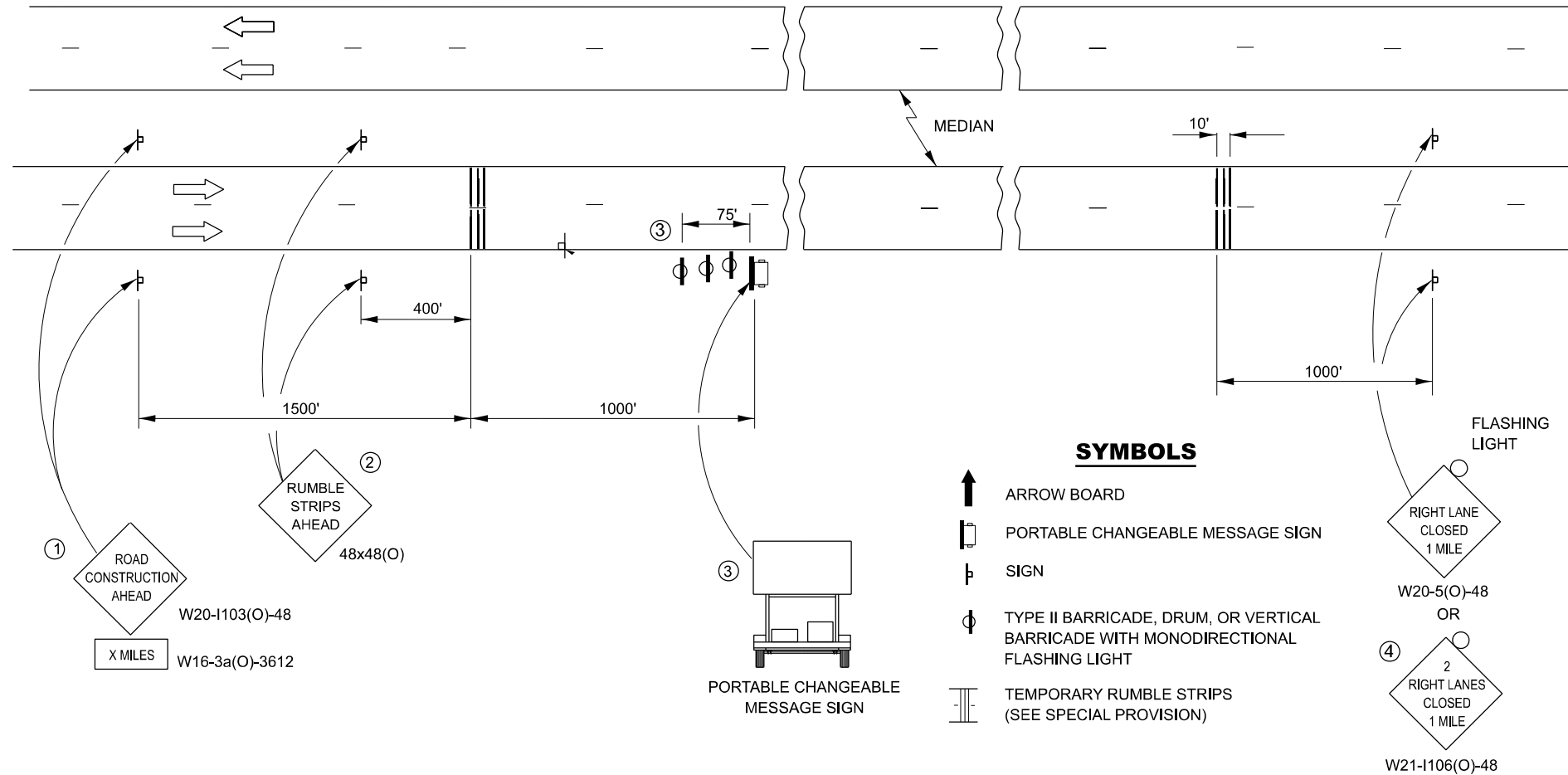
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 8/21/2024	DATE - 4/19/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	9
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				



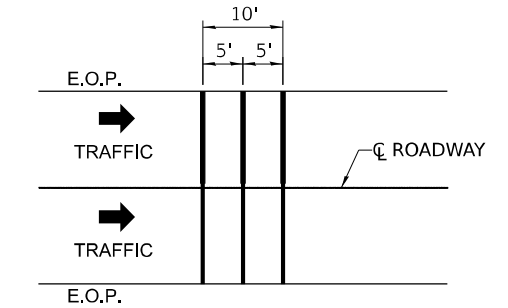
SYMBOLS

- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⌚ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ▨ TEMPORARY RUMBLE STRIPS (SEE SPECIAL PROVISION)
- ⬠ RIGHT LANE CLOSED 1 MILE
W20-5(O)-48
OR
⬠ 2 RIGHT LANES CLOSED 1 MILE
W21-106(O)-48

GENERAL NOTES

THIS DETAIL MUST BE USED IN COMBINATION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 WHENEVER TEMPORARY RUMBLE STRIPS ARE REQUIRED.

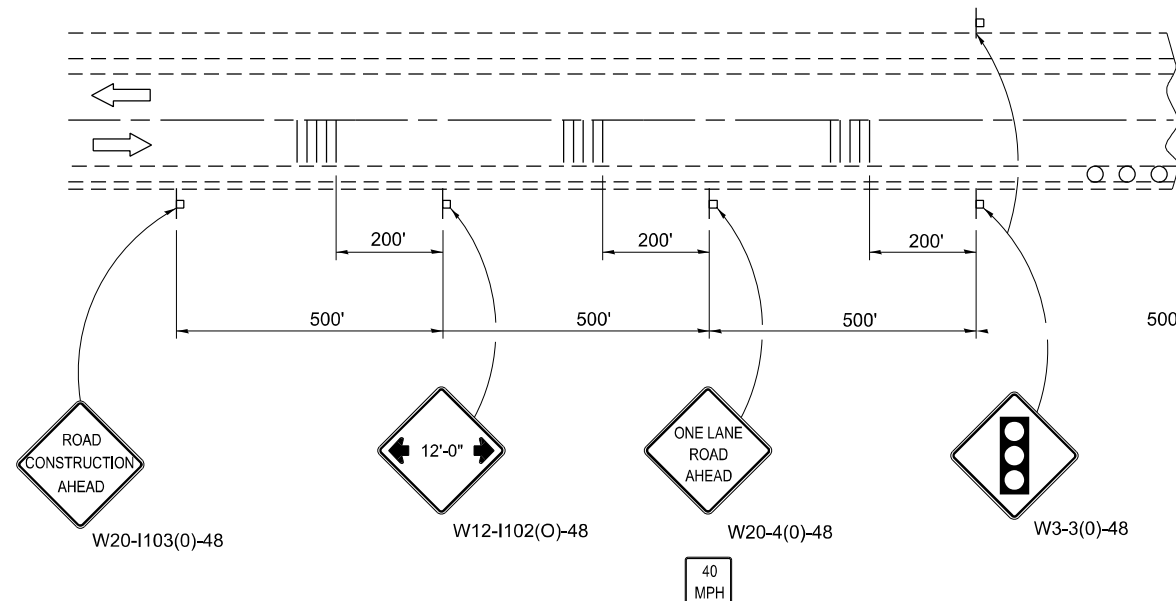
FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED AS "ONE EACH".



TEMPORARY RUMBLE STRIP (SPECIAL)

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".

FREEWAYS AND EXPRESSWAYS



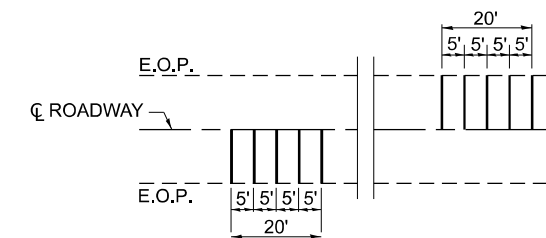
SYMBOLS

- TRAFFIC
- ⌚ SIGN
- ⊕ DRUM WITH MONODIRECTIONAL FLASHING LIGHT
- ▨ TEMPORARY RUMBLE STRIPS (SEE SPECIAL PROVISION)

GENERAL NOTES

THIS DETAIL MUST BE USED IN COMBINATION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 WHENEVER TEMPORARY RUMBLE STRIPS ARE REQUIRED.

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED AS "ONE EACH".



TEMPORARY RUMBLE STRIP (SPECIAL)

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".

2L, 2W ROADWAYS

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\1021649166\F81.dgn

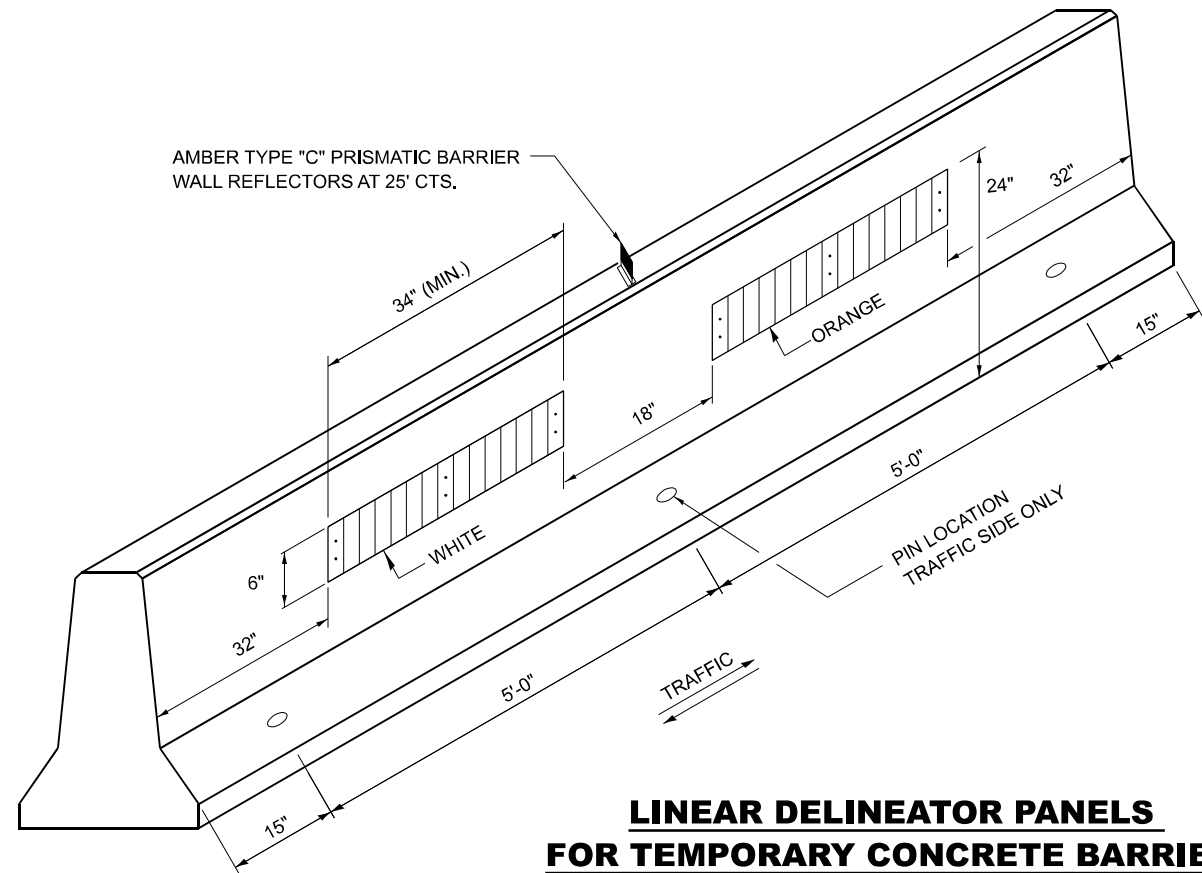
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

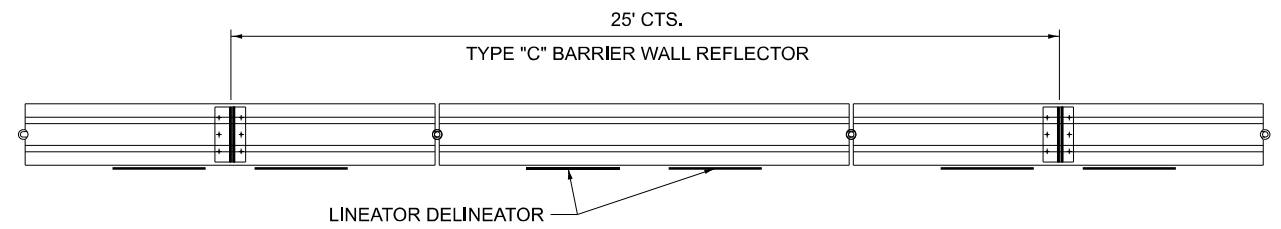
TEMPORARY RUMBLE STRIPS (SPECIAL)

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(50-4HB-3)BP-2, (50-7HB)BP-2	LASALLE	24	10
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				

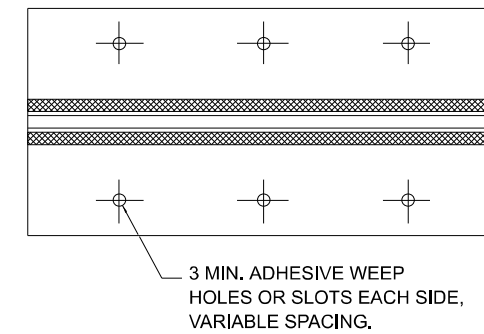
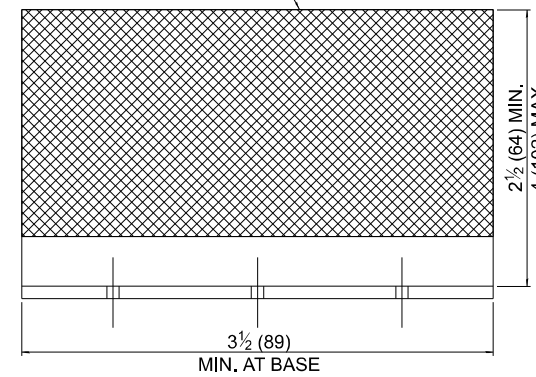


**LINEAR DELINEATOR PANELS
FOR TEMPORARY CONCRETE BARRIER**

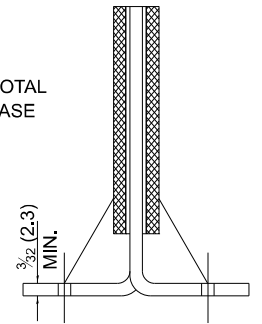


TYPE "C" REFLECTOR FOR TEMPORARY CONCRETE BARRIER

REFLECTIVE AREA, MAY BE
RECTANGULAR OR SLIGHT
TRAPEZOID.



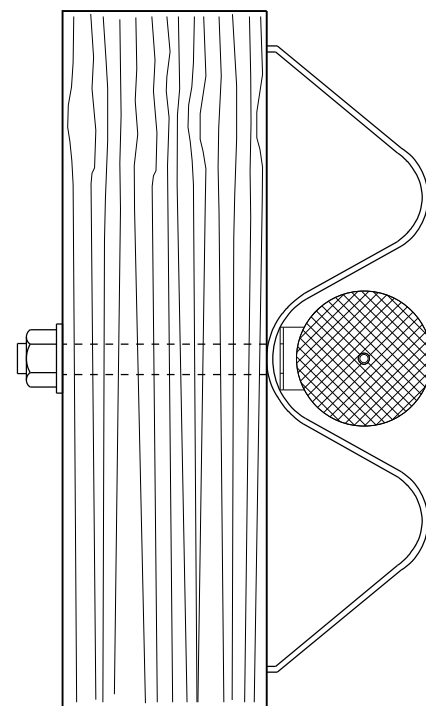
MINIMUM TOTAL
AREA OF BASE
7.0 SQ. IN.



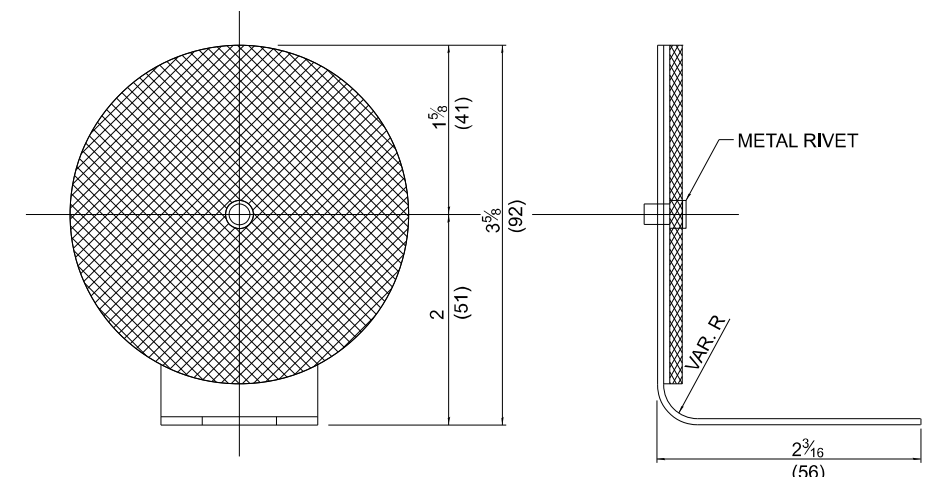
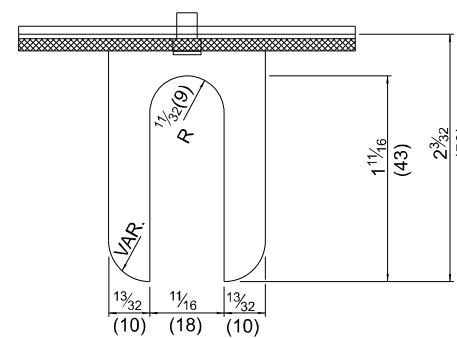
CROSS SECTION MAY BE "T"
OR "L" SHAPED AND MAY HAVE
SIDE SUPPORTS AT ENDS.

REFLECTOR TYPE C

TEMPORARY CONCRETE BARRAIER WALL



**TYPICAL MOUNTING DETAIL
FOR GUARDRAIL TYPE "A" REFLECTOR**



REFLECTOR TYPE A

(MONODIRECTIONAL SHOWN)
STEEL PLATE BEAM GUARDRAIL

MODEL: Default
FILE NAME: c:\pwworking\woodshank\1021649166\F81.dgn

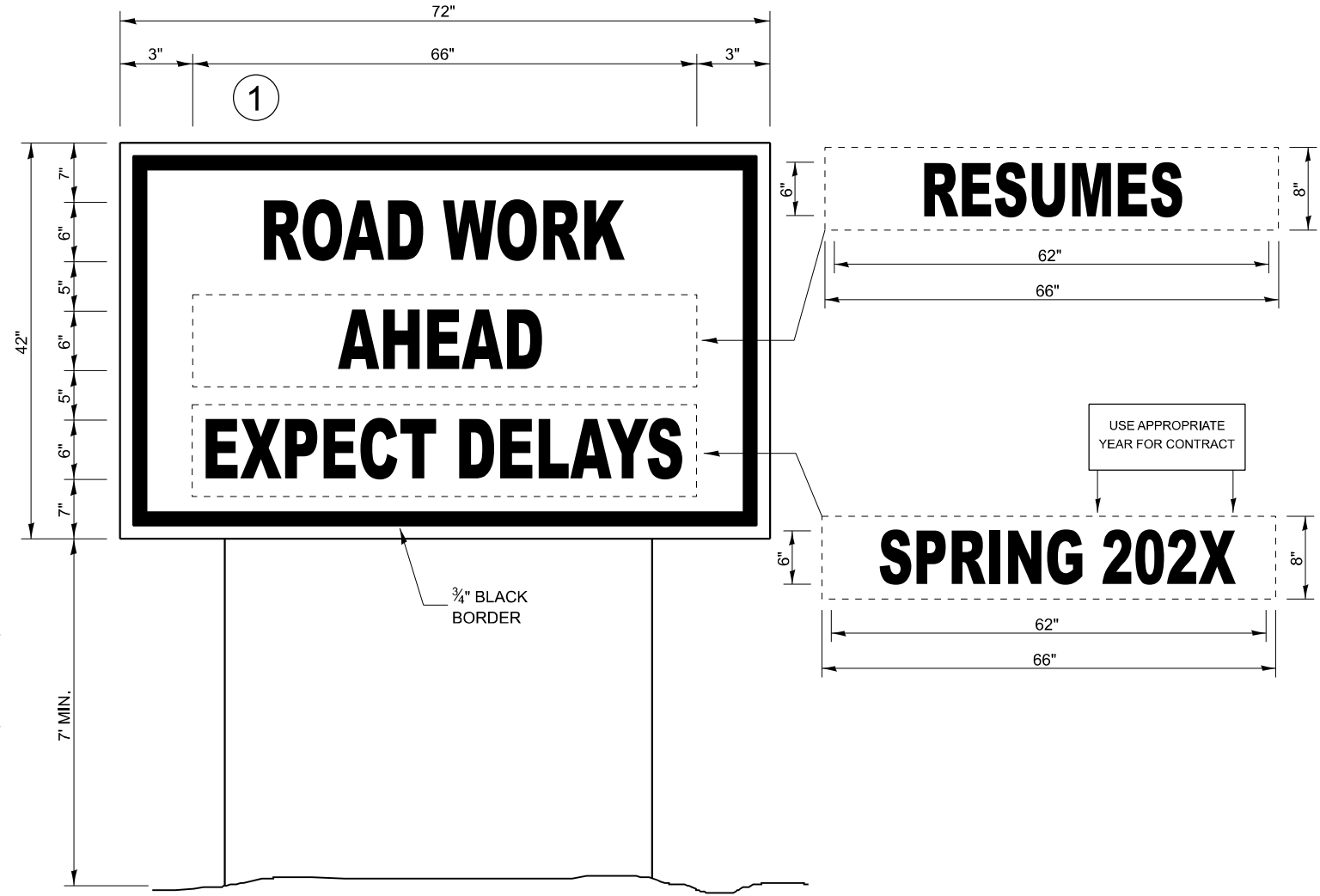
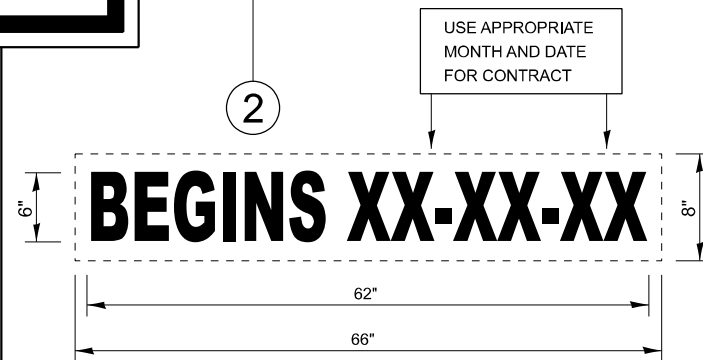
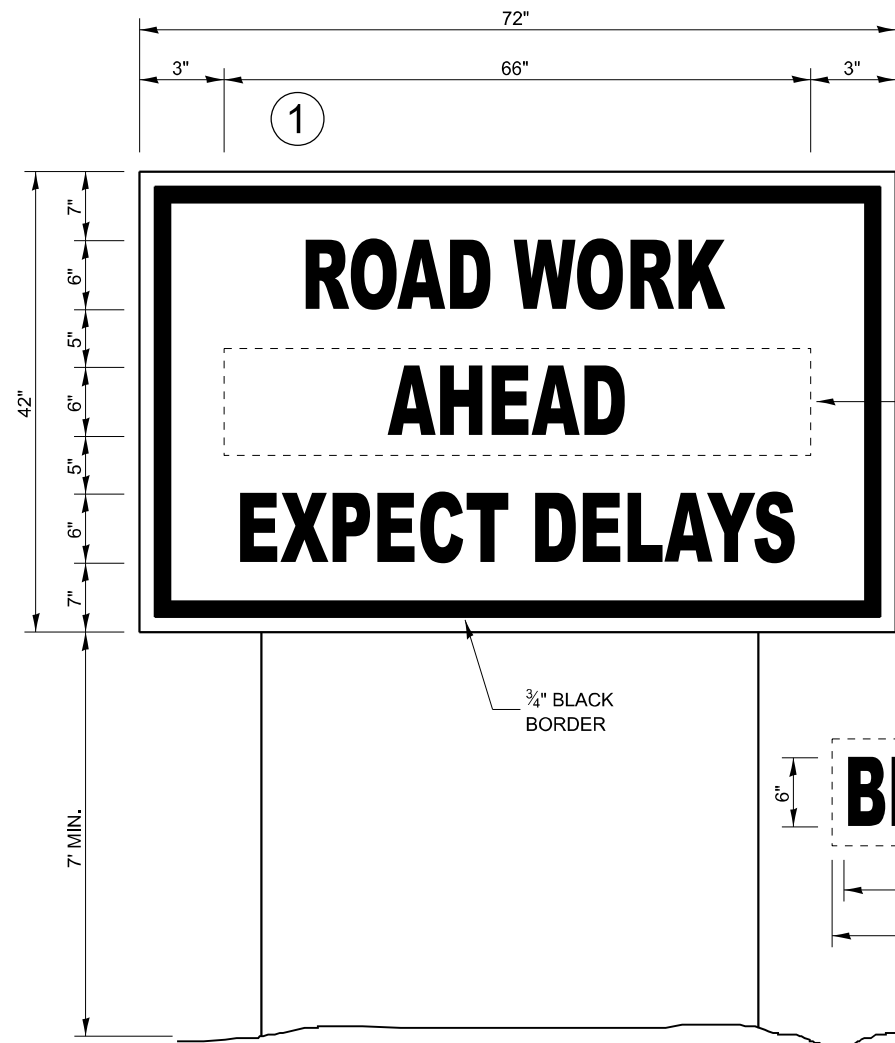
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL / BARRIER WALL DELINEATION DETAILS

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

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	11
CONTRACT NO. 66P81			ILLINOIS FED. AID PROJECT	



TEMPORARY INFORMATION SIGNING

WINTER SHUT DOWN SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21.

MODEL: Default
FILE NAME: c:\pwworking\woodshank\102164968\F81.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

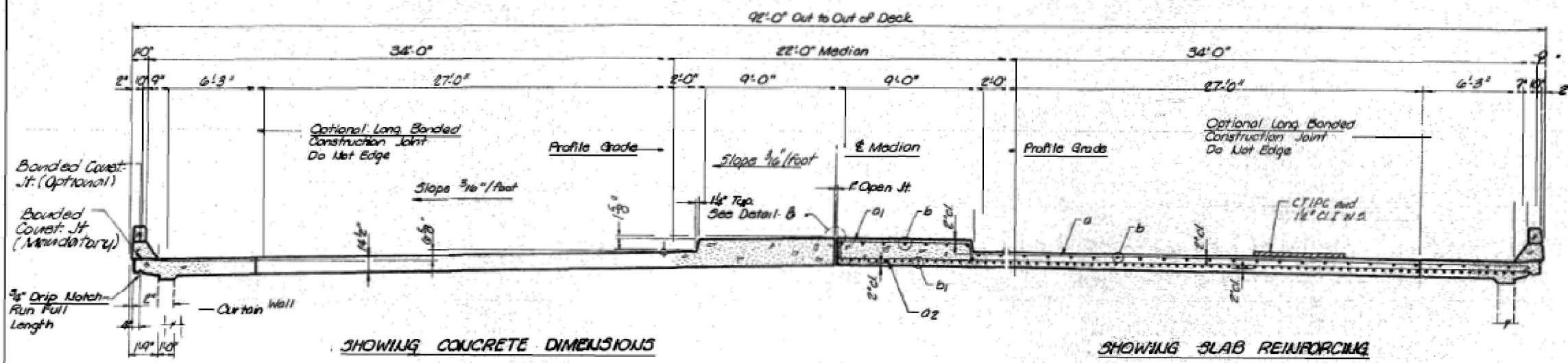
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INFORMATION SIGNING DETAILS

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

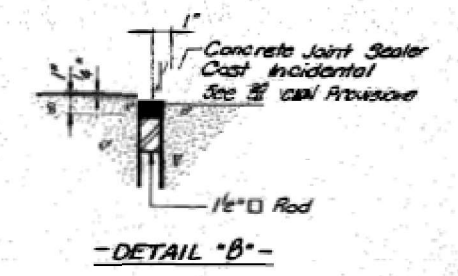
F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	12
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FR-55	53-5HB-3	LIVINGSTON	73	31
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

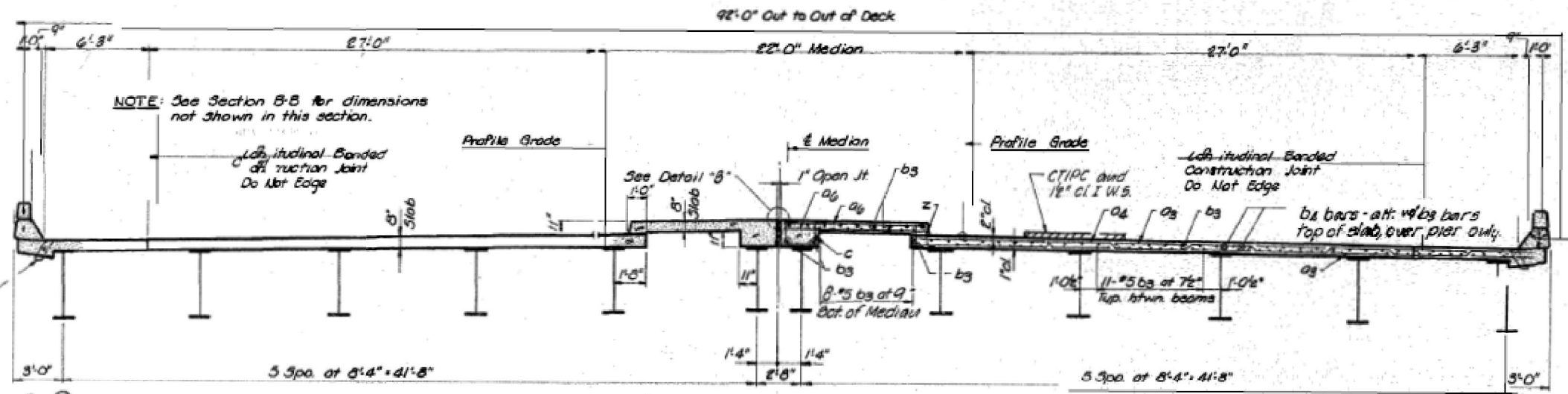


-SECTION B-B-

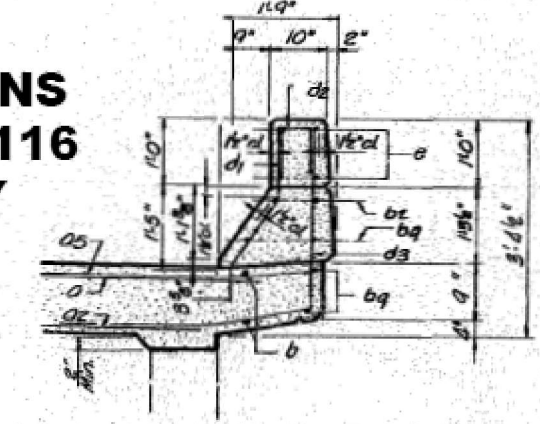
**EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0116
FOR INFORMATION ONLY**



-DETAIL B-

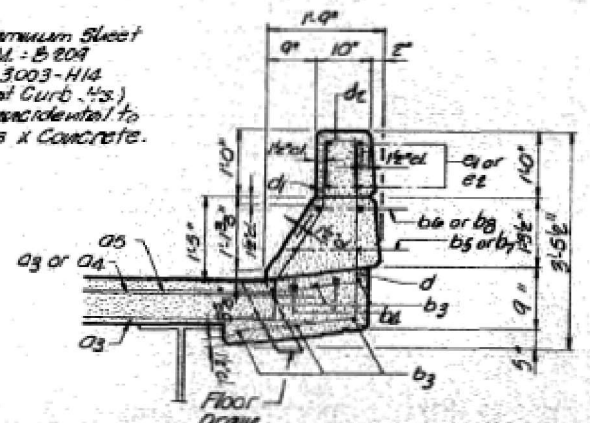


-SECTION C-C-

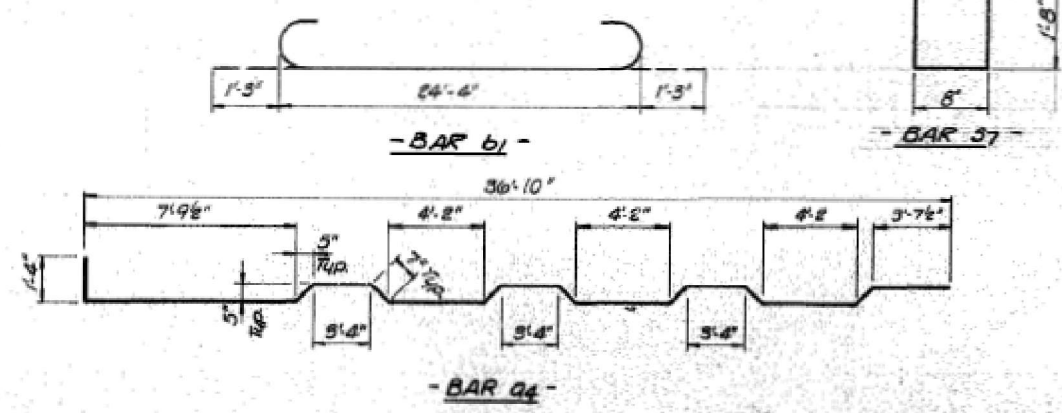
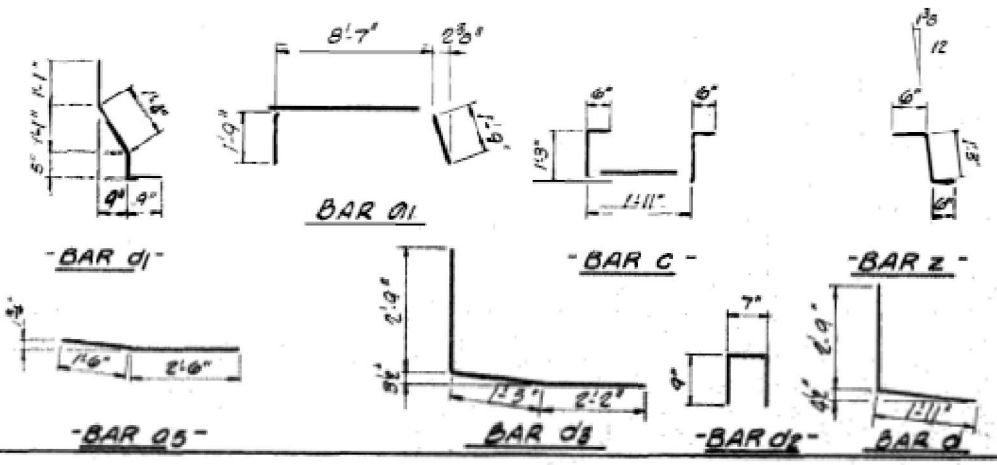


-DETAIL OF CURB REINFORCEMENT IN APPROACH SPAN-

8" Aluminum Sheet
A.S.T.M. - B 209
a₂ x 3003-H14
(Top of Curb 1/2")
Cast incidental to
CLASS X Concrete.



-DETAIL OF CURB REINFORCEMENT IN MAIN SPAN-



REVISIONS		DECK CROSS SECTION	
NO.	DATE	DESCRIPTION	BY
1	10-27-04	ISSUED FOR BIDDING	Y.P.
2			
3			
4			
5			
6			
7			
8			
9			
10			

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

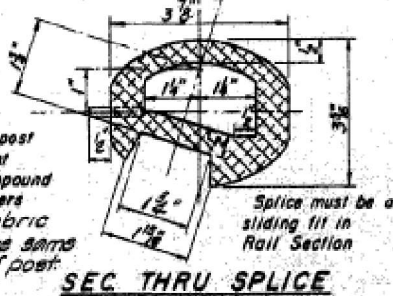
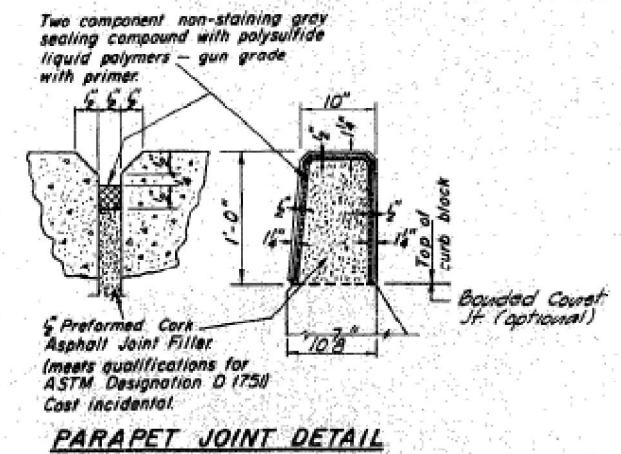
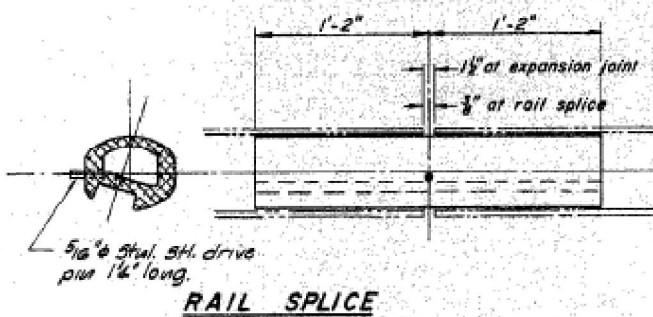
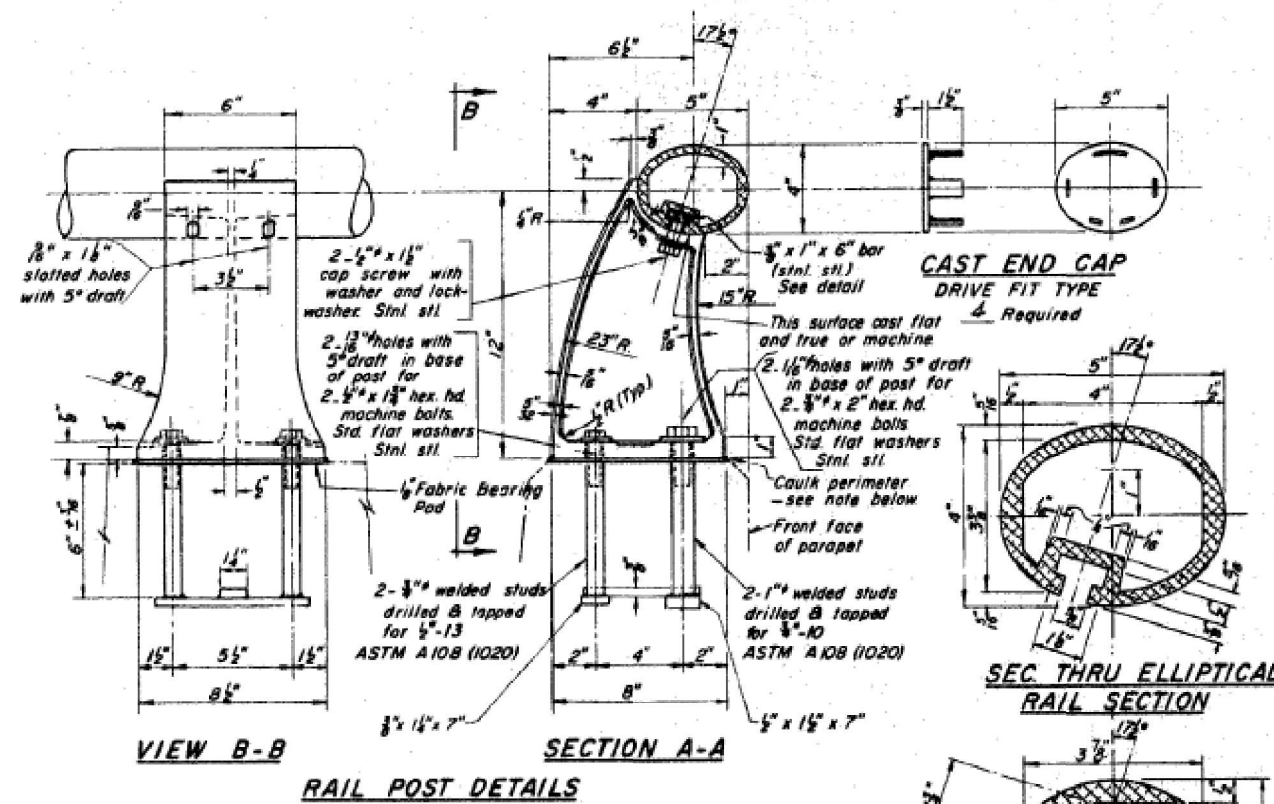
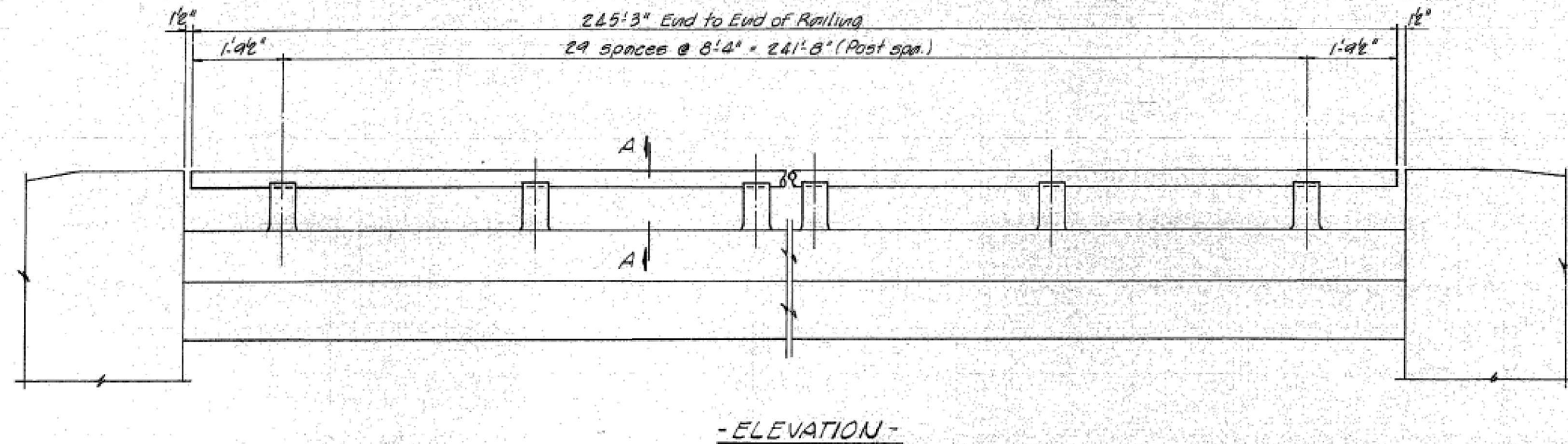
EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0116

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	14
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

MODEL: Default
FILE NAME: c:\pwwork\woodshank\102164968P81.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-55	53-54B-3	LIVINGSTON	73	32
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



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

NOTES
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a maximum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a maximum of 2 posts.
All joints in rail shall be spliced per detail.
Provide 1- 3/8" and 2- 1/2" Aluminum Studs for 25% of the Posts. Rail element shall be parallel to Grade. High spots shall be ground and low spots shimmed.
Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.

EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 053-0116 FOR INFORMATION ONLY

BILL OF MATERIAL

Item	Unit	Quantity
ALUMINUM RAILING	Lin. Ft.	241

REVISIONS		DRAWN BY: RW	
No.	Date	Initials	Scale
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

ALUMINUM RAILING

ILL. DEPT. OF TRANSPORTATION
F.A.I. 55 SEC. 53-54B-3 PROJ.
STA. 102+00 TO STA. 105+00 LIVINGSTON COUNTY
HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

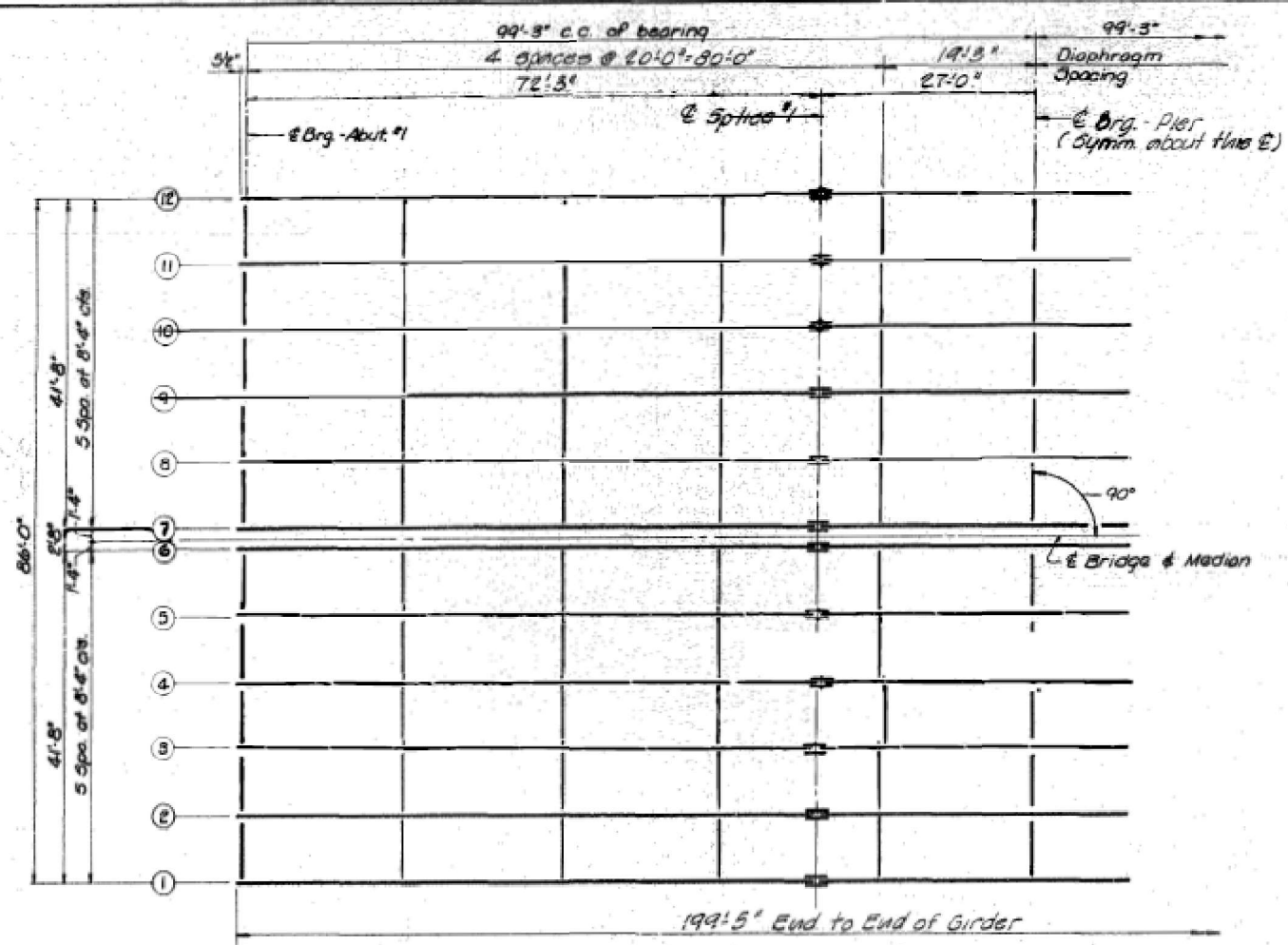
**EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0116**

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-54B-3)BP-2, (26BR)BP-1	LIVINGSTON	24	15
			CONTRACT NO. 66P81	
		ILLINOIS FED. AID PROJECT		

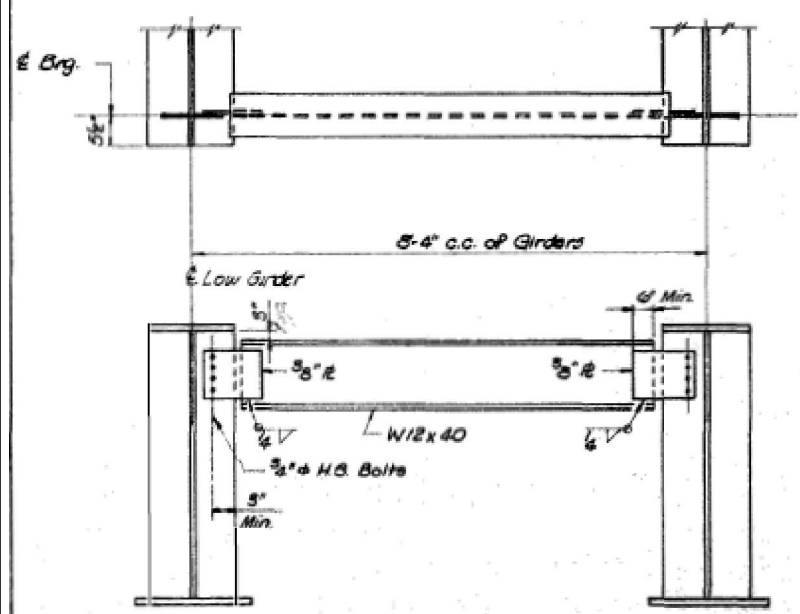
SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

MODEL: Default FILE NAME: c:\pwworking\woodshank\102164966P81.dgn

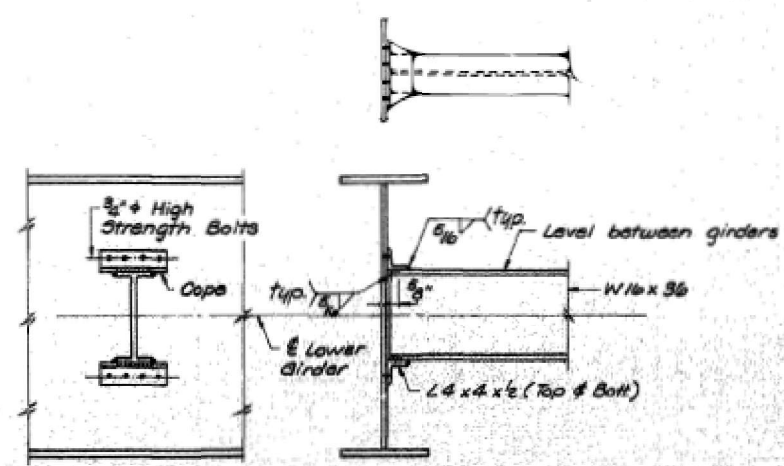
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	3	LIVINGSTON	73	35
FED. ROAD DIST. NO.	BLK.	PROJECT		



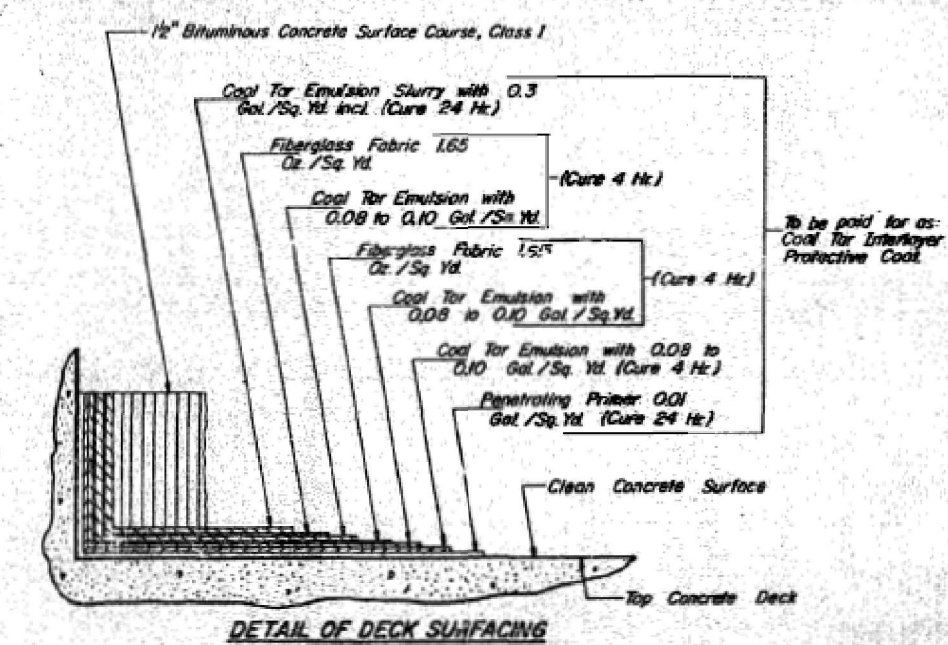
-FRAMING PLAN-



-END DIAPHRAGM-
20 Required



-INTERIOR DIAPHRAGM-
40 Required



DETAIL OF DECK SURFACING

-TOP OF WEB ELEVATIONS-

GIRDER	1 & 12	6 & 11	5 & 10	4 & 9	5 & 8	6 & 7
8 BRS. - Abut. #1	676.58	676.66	676.74	676.98	675.05	675.18
8 SPLICE #1						
PIER						
8 SPLICE #2						
8 BRS. - Abut. #2						

REVISION	DATE	BY	CHKD	APP'D	REASON
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

F.A.I. - 55 DEC. 55 54001 - PROJECT
 STA. NO. + 23.50 TRAILER LIVINGSTON CO.
 2127-2
 HOMER L. CHASTAIN & ASSOCIATES
 CONSULTING ENGINEERS
 GREATERS SPRING

MODEL: Default
FILE NAME: c:\pwwork\woodshank\10216496881.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

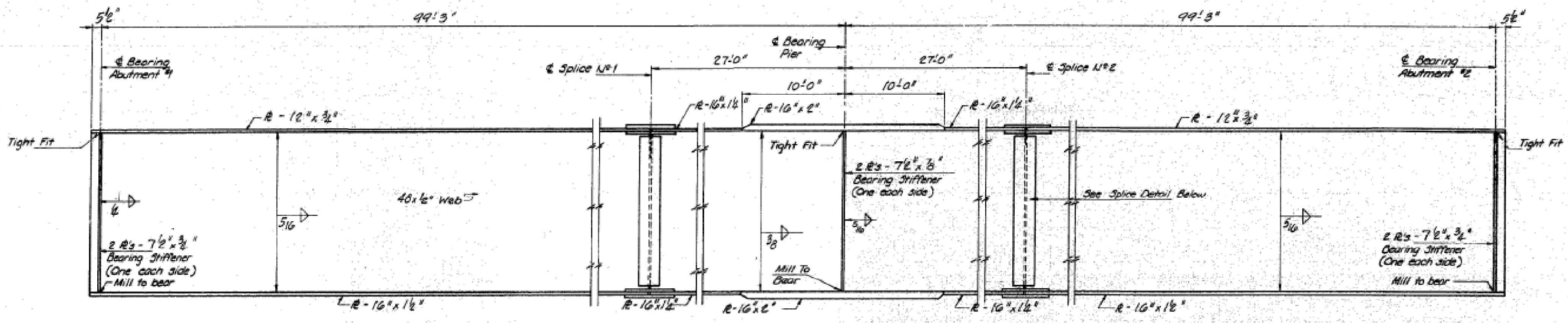
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0116

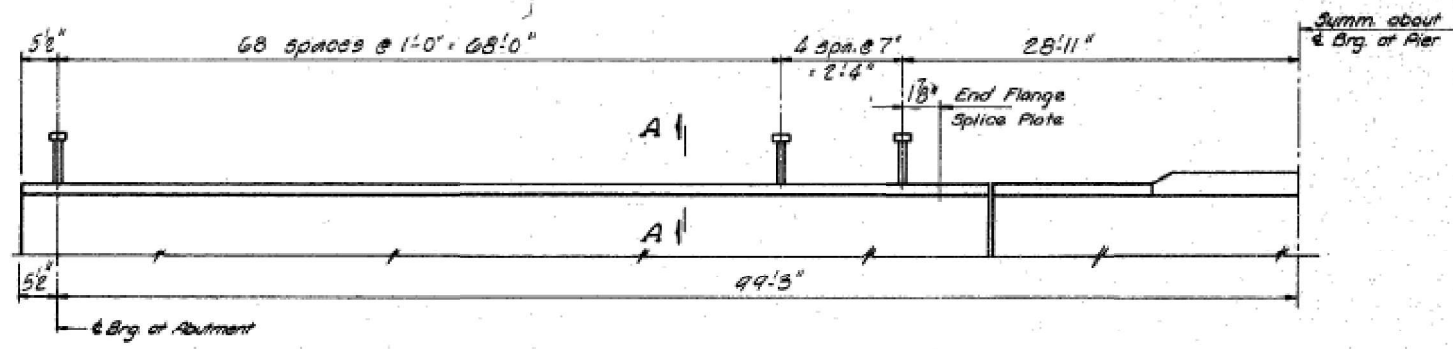
SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	16
			CONTRACT NO. 66P81	
		ILLINOIS FED. AID PROJECT		

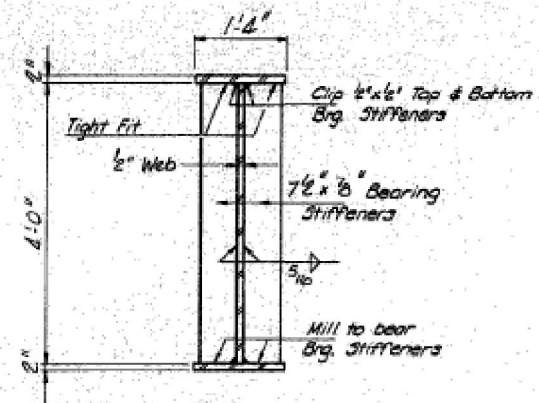
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-55	53-5HB-3	LIVINGSTON	73	34
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



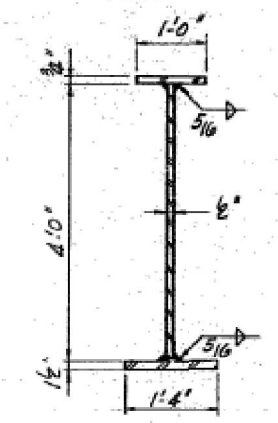
GIRDER ELEVATION



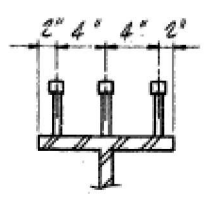
SHEAR CONNECTOR ELEVATION
(438 stud shear connectors req'd. ea girder)



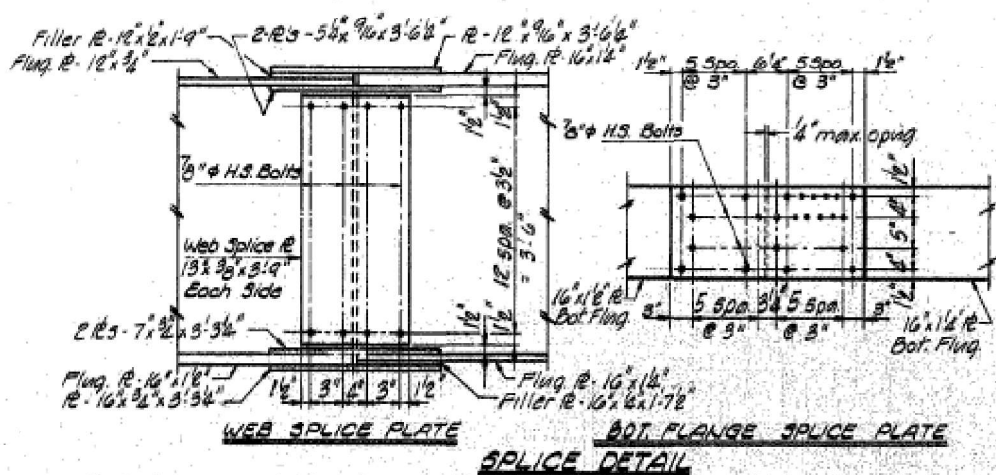
SECTION AT PIER



TYPICAL GIRDER SECTION
(Abutment to splice)



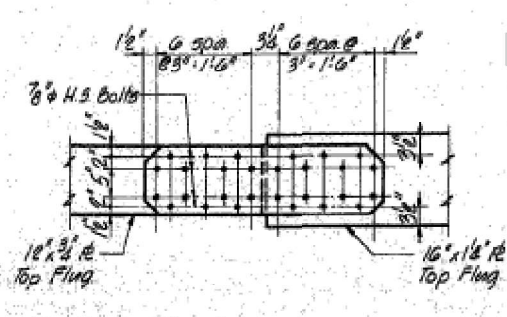
SECTION A-A
2\"/>



WEB SPlice PLATE

BOT FLANGE SPlice PLATE

SPlice DETAIL



TOP FLANGE SPlice PLATE

EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 053-0116 FOR INFORMATION ONLY

REVISIONS		STRUCTURAL STEEL	
NO.	DATE	BY	REASON
1	10-11-05	RSW	REVISED
STATE OF ILLINOIS		DESIGNED BY: GSH	
ILL. RC 116 OVER PAI-55		DRAWN BY: GSH	
FAI-55 SEC. 53-5HB-3 BRIDGE		CHECKED BY: GSH	
STA. 110+24.50 (FAI-55) LIVINGSTON CO.		PROJECT NO. 2187-2	
HOMER L. CHASTAIN & ASSOCIATES		CONSULTING ENGINEERS	
DECATUR, ILLINOIS		SHEET NO.	

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

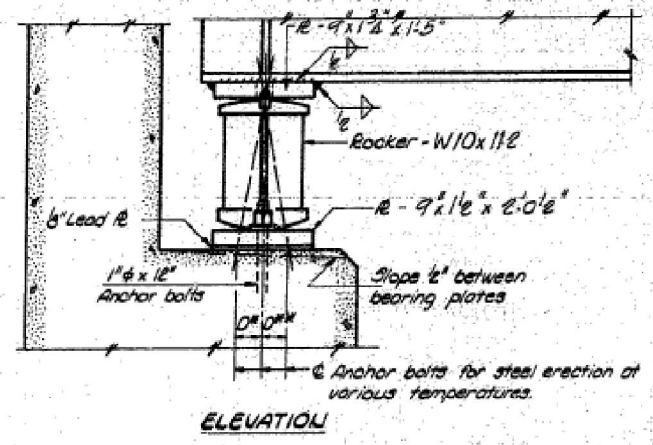
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0116

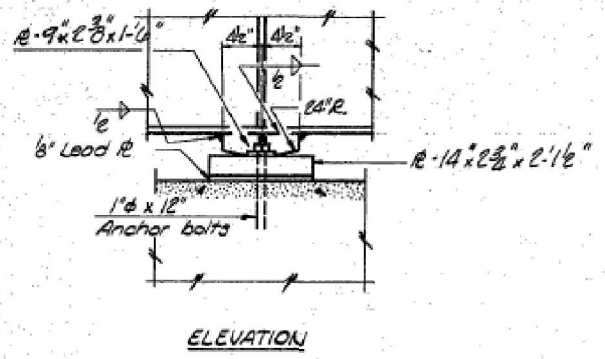
SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	17
			CONTRACT NO. 66P81	
		ILLINOIS FED. AID PROJECT		

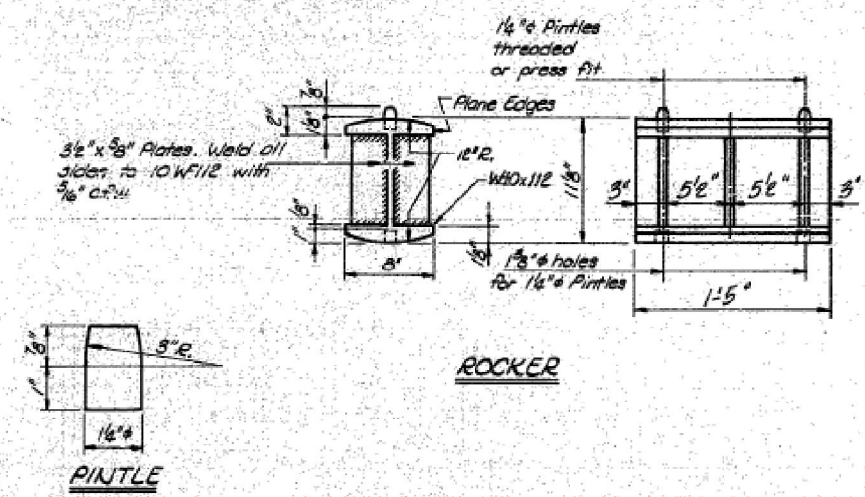
MODEL: Default
FILE NAME: C:\pwworkspace\woodshank\1021649566P81.dgn



ELEVATION

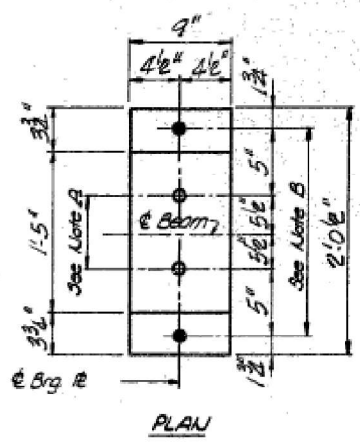


ELEVATION



ROCKER

PINTLE

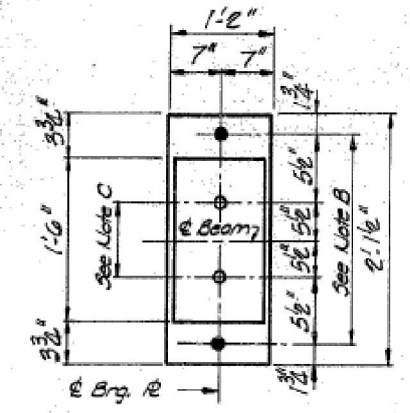


PLAN
AT ABUTMENT

NOTE A
1 1/2" x 5" holes - 1" deep in top flange for pintles. Thread or press fit pintles into bottom flange.

NOTE B
1 1/2" x 5" holes for 1" x 5" anchor bolts. 2 1/2" x 2 1/2" x 3/16" R washers under nut.

NOTE C
1 1/2" x 5" holes 1" deep in top flange only for 1 1/2" x 5" pintles.



PLAN
AT PIER

NOTES ON SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a) D^* (Side of brg. away from fixed brg.)
 $D^* = 1/8"$ per each 100' of expansion for every 15° below the normal temperature of 50°F.
- D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = 1/8"$ per each 100' of expansion for every 15° above the normal temperature of 50°F.
- b) After beams have been erected and dimensions D^* or D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

MOMENT TABLE - Symm. Composite 2 Span (Composite in Positive Moment Areas Only)

	Abutment	Pier
I_y (in ⁴)	22,197	44,622
I_z (in ⁴)	57,285	
S_y (in ³)	1,173	1,177
S_z (in ³)	1,565	
Q (in)	1.117	1.117
M_R (k)	662	1,606
F_y (k)	6.77	11.22
J_R (k)	0.310	0.310
M_E (k)	229	339
M_I (k)	454	757
M_{imp} (k)	213	169
TOTAL (k)	1396	1265
$F_y + I_y$ (k)	10.70	8.84
F_y TOTAL (k)	17.47	20.06
V_R (k)	75.9	

REACTION TABLE

	ABUTMENT	PIER
$R_E + S_E$ (k)	52.3	178.5
R_E (k)	57.6	78.5
I_{imp} (k)	16.8	17.5
R TOTAL (k)	122.6	274.6

I_y and S_y are the moment of inertia and section modulus of the steel section.
 I_z and S_z are the moment of inertia and section modulus of the composite section used in computing F_y .
 V_R is the maximum $\phi +$ Impact shear range.

EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 053-0116 FOR INFORMATION ONLY

REVISIONS		STATE OF ILLINOIS	DESIGNED BY
1	DATE		RW 5/71
2	REVISION		
3			
4			
5			
6			
7			
8			
9			
10			

ILL. RT. 116 OVER FAI-55
FAI-55 SEC. 53-SHB-3 PROJ.
STA. 110+84.56 (EAL-55) LIVINGSTON CO.
HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\102161916\F81.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

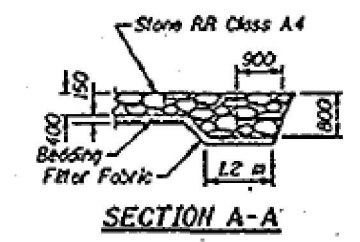
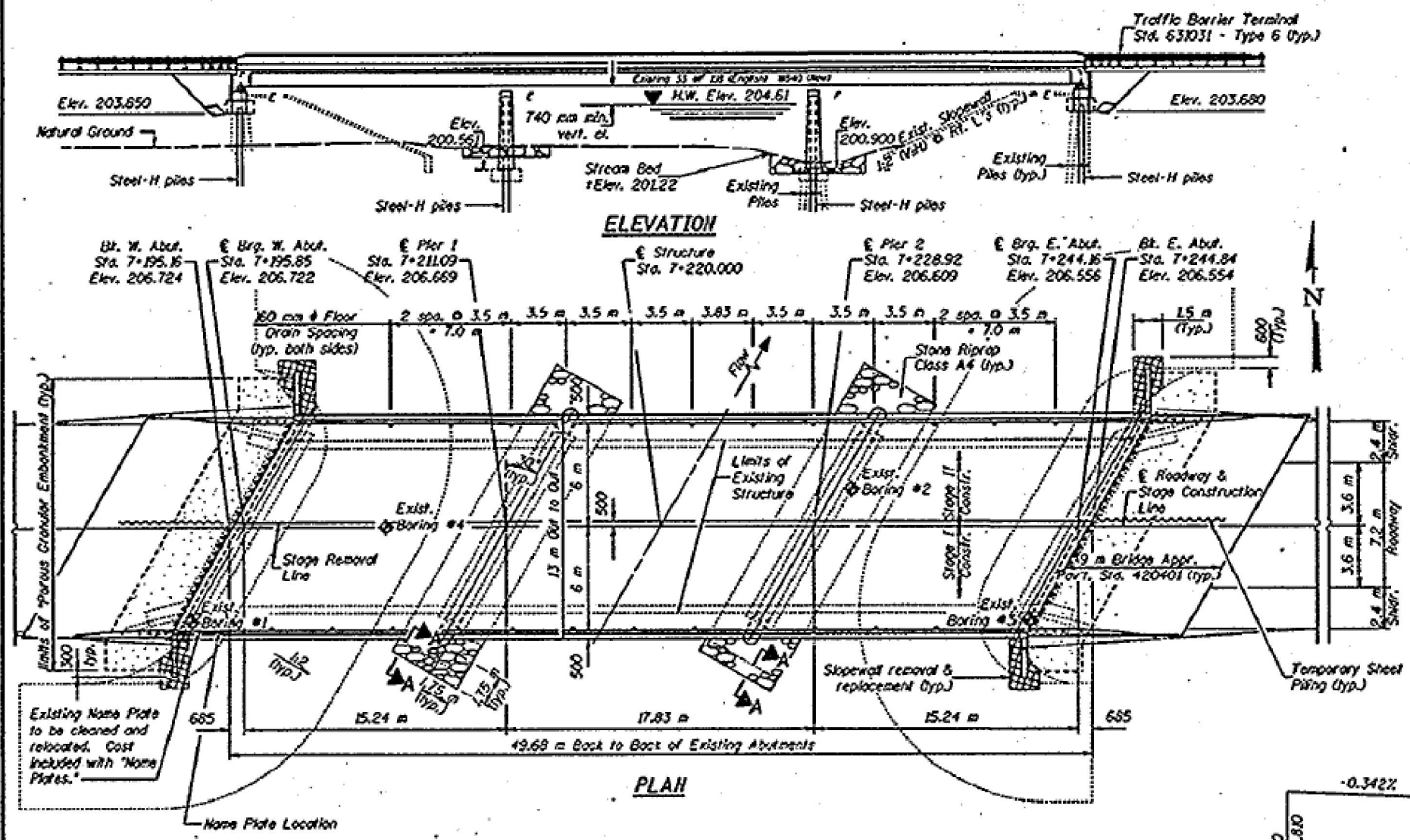
EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0116
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-SHB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	18
				CONTRACT NO. 66P81
				ILLINOIS FED. AID PROJECT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Bench Marks: Chiseled square top of N.W. wingwall Station 7+198 Lt. Elev. 207.663

Existing Structure: S.M. 053-0019 Built in 1964 as F.A. Rte. 9 (S.B.I. Rte. 8), Sec. 26B-R of Sta. 237+79 (English). The structure is a three-span continuous steel beam bridge consisting of six W838x176 (53WF118 - English) beams and a 7" RC deck slab on open abutments and solid wall piers. The overall length is 49.682 m bk. to bk. abutments and the width is 10.871 m O. to O. deck. Traffic shall be maintained utilizing stage construction. No salvos.



STATION 7+220.000
REBUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 317 - SECT. (26R)BR
F.A. PROJECT
LOADING MS18
STR. NO. 053-0019
NAME PLATE
See Std. 515001

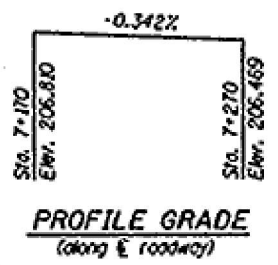
LOADING MS18
Allow 1.2 MN/m² for future wearing surface.

DESIGN SPECIFICATIONS
1992 AASHTO, with 1993, 1994 and 1995 Interims

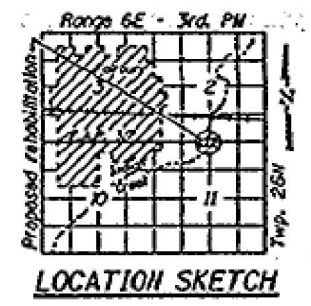
DESIGN STRESSES

FIELD UNITS	
New Construction	Old Construction
f _c = 24 MPa	f _c = 10 MPa
f _t = 400 MPa (rein.)	v _c = 0.5 MPa (Ingr.)
f _s = 138 MPa	f _s = 138 MPa (rein.)
	n = 10

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 4.37g
Site Coefficient (S) = L2



**EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 053-0019 FOR
INFORMATION ONLY**



**GENERAL PLAN
U.S. ROUTE 24 OVER
INDIAN CREEK
F.A.P. ROUTE 317 - SECTION (26R)BR
LIVINGSTON COUNTY
STATION 7+220.000
STRUCTURE NO. 053-0019**

WATERWAY INFORMATION

Drainage Area = 177.76 km² Low Grade Elev. 206.02 @ Sta. 7+379.03

Flood	Freq. Yr.	c.m.s.	Opening sq. m		Nat. H.W.E.	Head - m		Headwater EL.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	126.1	81.4	81.4	204.61	0.23	0.23	204.84	204.84
Base	100	141.9	85.7	85.7	204.75	0.23	0.23	204.96	204.96
Overlapping									
Max. Calc.	500	178.5	95.1	95.1	205.00	0.26	0.26	205.25	205.25

DESIGNED *Shirley D. A.*
CHECKED *Rod H. White*
DRAWN *Cheryl Taylor*
CHECKED *Shirley D. A.*

FEBRUARY 26 1997
DESIGNED *Shirley D. A.*
CHECKED *Rod H. White*
DRAWN *Cheryl Taylor*
CHECKED *Shirley D. A.*

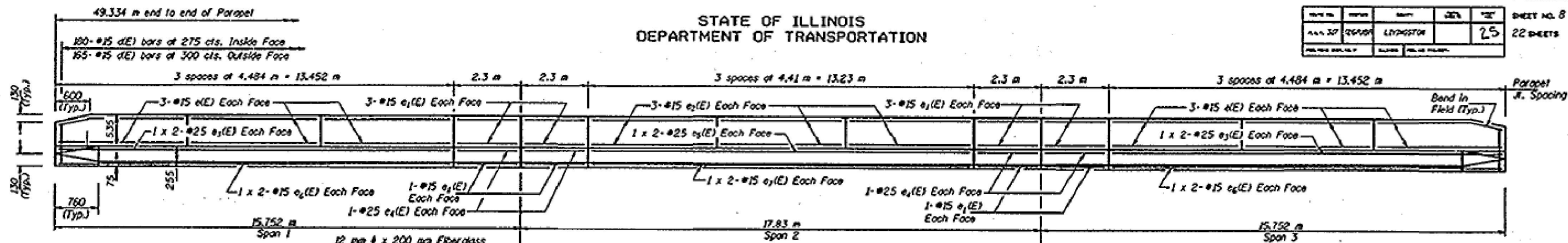


EXPIRES 11-30-99

MODEL: Default
FILE NAME: C:\pwworkspace\woodshank\102164968\81.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	NO.	SHEET NO.
11/27/97	RW	YP	25	22 SHEETS



INSIDE ELEVATION OF PARAPET

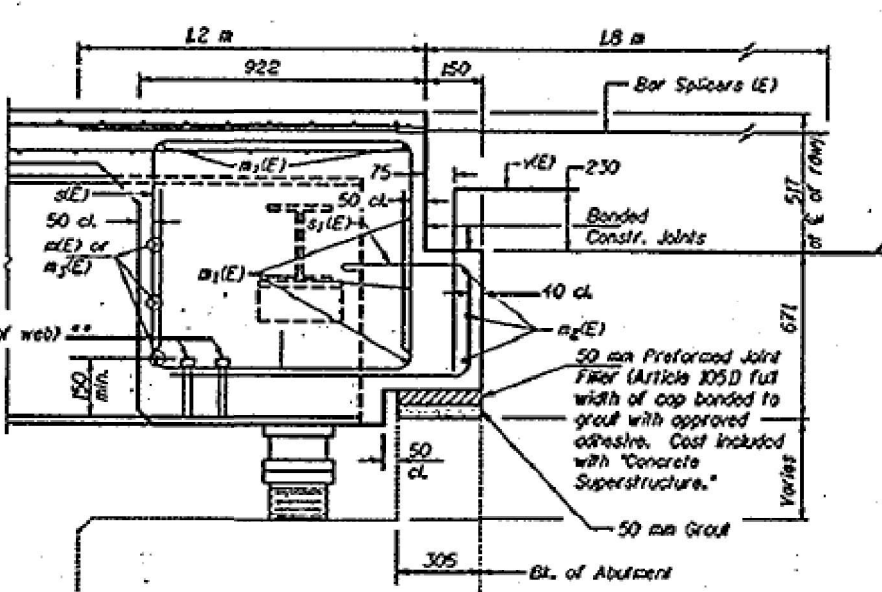
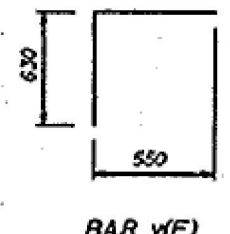
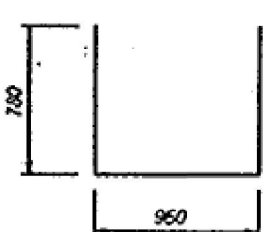
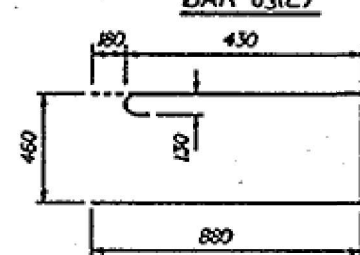
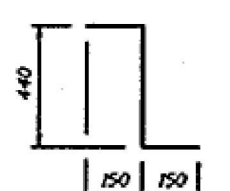
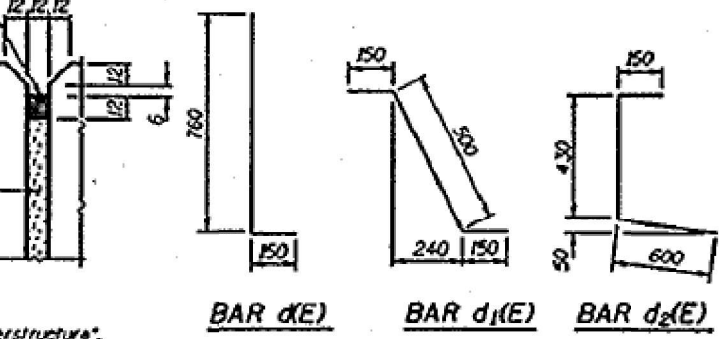
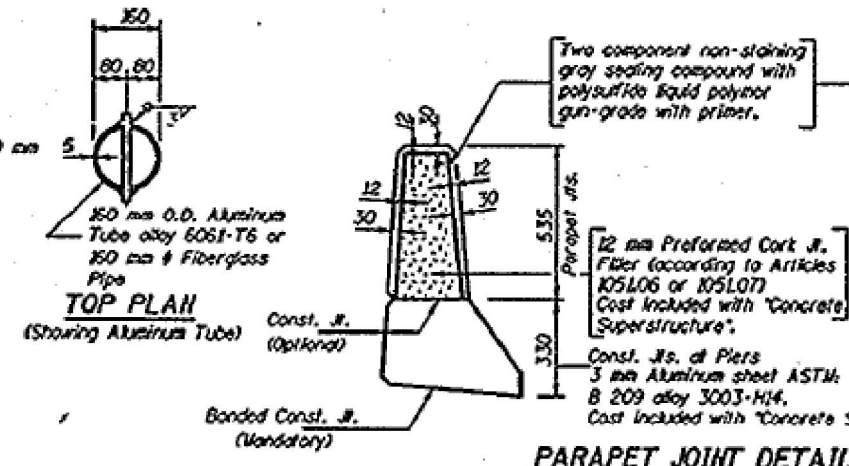
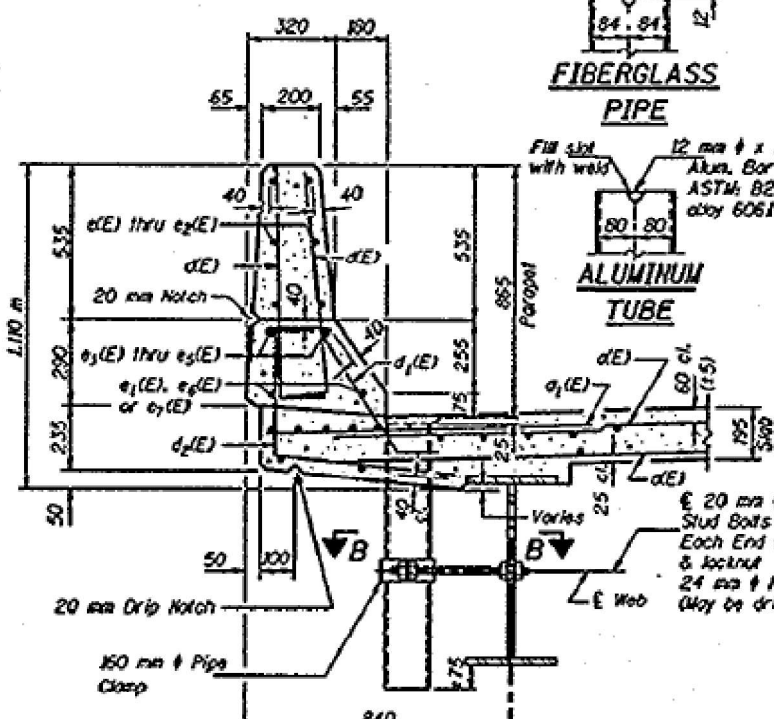
EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 053-0019 FOR
INFORMATION ONLY

SUPERSTRUCTURE
BILL OF MATERIAL

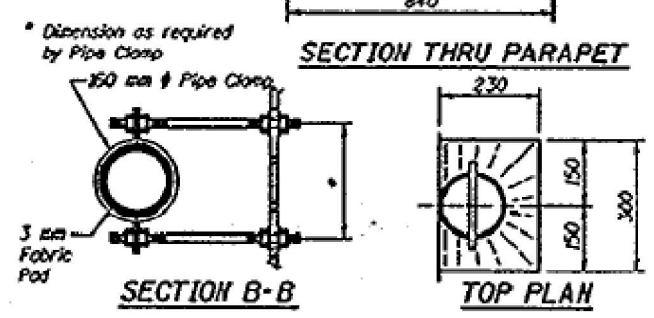
Bar	No.	Size	Length (m)	Shape
d(E)	916	#15	6.18	
e1(E)	280	#20	1.20	
e2(E)	8	#15	1.14	
d(E)	322	#15	7.48	
b1(E)	86	#20	5.75	
b2(E)	252	#15	6.65	
d(E)	690	#15	0.91	
d1(E)	348	#15	0.80	
d2(E)	330	#15	1.18	
d3(E)	12	#15	0.74	
d(E)	72	#15	4.40	
e1(E)	84	#15	2.23	
e2(E)	36	#15	4.34	
e3(E)	16	#25	7.19	
e4(E)	16	#25	2.23	
e5(E)	8	#25	7.10	
e6(E)	16	#15	6.93	
e7(E)	8	#15	6.85	
d(E)	36	#20	3.00	
e1(E)	20	#20	7.40	
e2(E)	12	#20	7.10	
e3(E)	12	#20	1.82	
d(E)	184	#15	2.52	
s1(E)	92	#15	1.95	
d(E)	84	#15	1.18	
Reinforcement Bars, Epoxy Coated	kg		24150	
Concrete Superstructure	m ³		179.7	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2 #15 etc. indicates 1 line of bars with 2 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 317 - SECTION (26R)BR
LIVINGSTON COUNTY
STATION 7+220.000



** Cost Included with "Furnishing and Erecting Structural Steel."



DESIGNED: *[Signature]* DATE: FEBRUARY 26 1997
CHECKED: *[Signature]*
DRAWN: *[Signature]*
CHECKED: *[Signature]*
S-1-D (M) 3-31-95

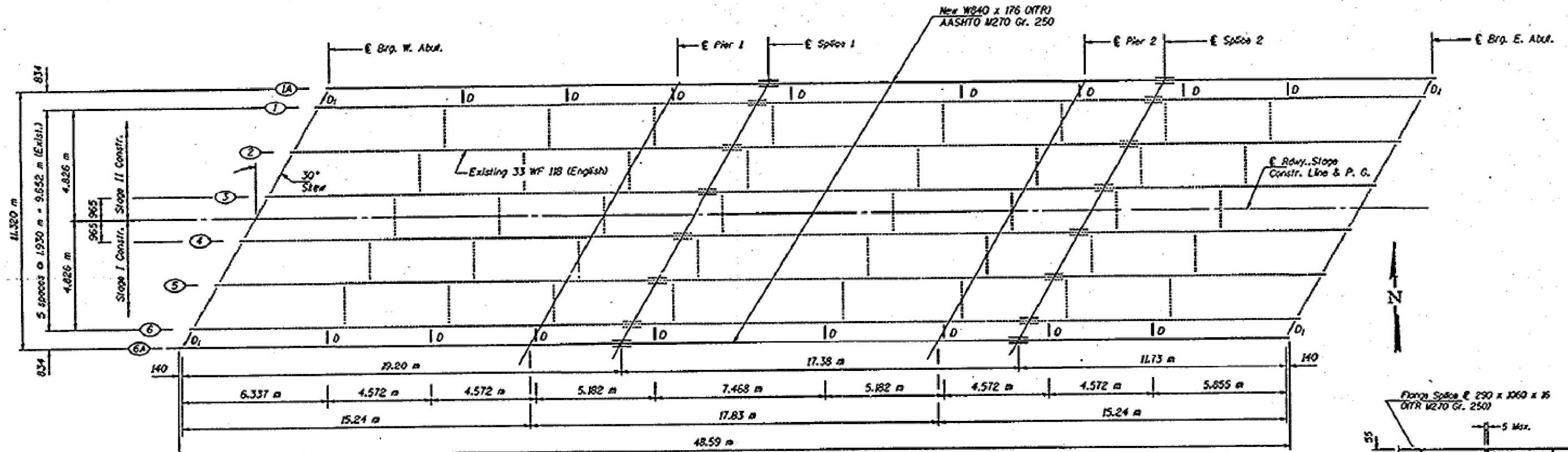
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE = 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0019

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	21
			CONTRACT NO. 66P81	
ILLINOIS FED. AID PROJECT				



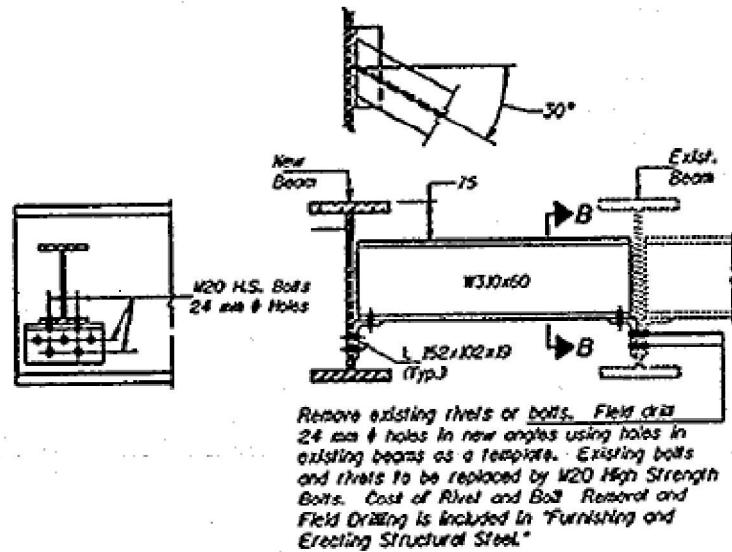
**FRAMING PLAN EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 053-0019 FOR
INFORMATION ONLY**

*** TOP OF BEAM ELEVATIONS**

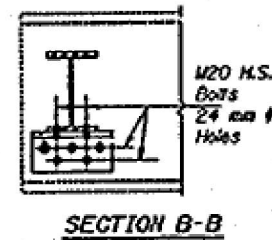
Location	Bay 1-A	Bay 6-A
E Brq. West Abut.	206.405	206.428
E Pier 1	206.341	206.363
E Splice 1	206.324	206.346
E Pier 2	206.276	206.298
E Splice 2	206.264	206.286
E Brq. East Abut.	206.240	206.262

* For Fabrication only.

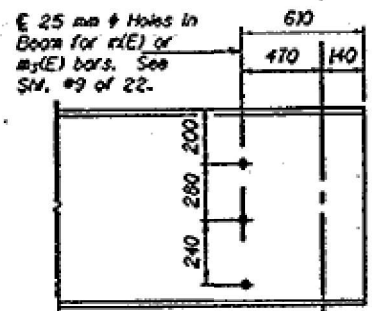
Field drill 24 mm holes in existing beams for M20 H.S. Bolts. Cost of Field Drilling is included in "Furnishing and Erecting Structural Steel."



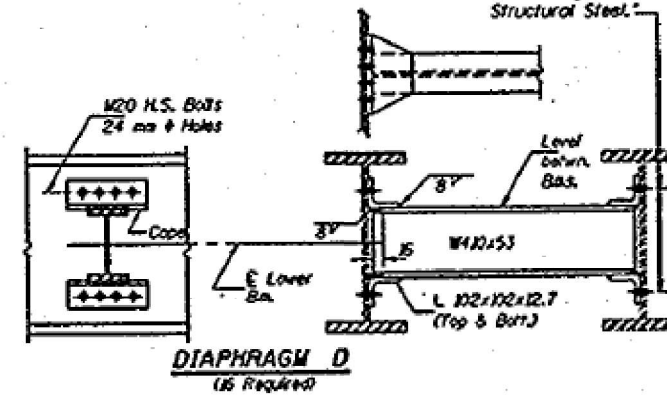
DIAPHRAGM D
(4 Required)



SECTION B-B

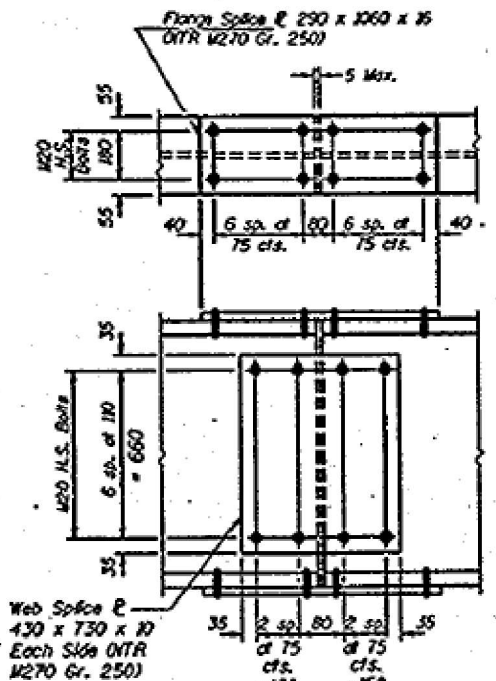


TYPICAL END OF BEAM ELEVATION



DIAPHRAGM D
(6 Required)

Note: Two hardened washers shall be required over all oversize holes for diaphragms.
All dimensions are in millimeters (mm) except as noted.
"NTR" denotes Notch Toughness Requirements



SPLICE
(4 Required)

**FRAMING PLAN
F.A.P. ROUTE 317 - SECTION (26R)BR
LIVINGSTON COUNTY
STATION 7+220.000**

DESIGNED: *Shawn D. Decker*
CHECKED: *Bob A. White*
DRAWN: *Y.P.*
PROJECT: *Shawn D. Decker*

FEBRUARY 26 1997
DESIGNED: *Prof. D. Kasper*
CHECKED: *Ralph E. Curbeam*
PROJECT: *Shawn D. Decker*

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

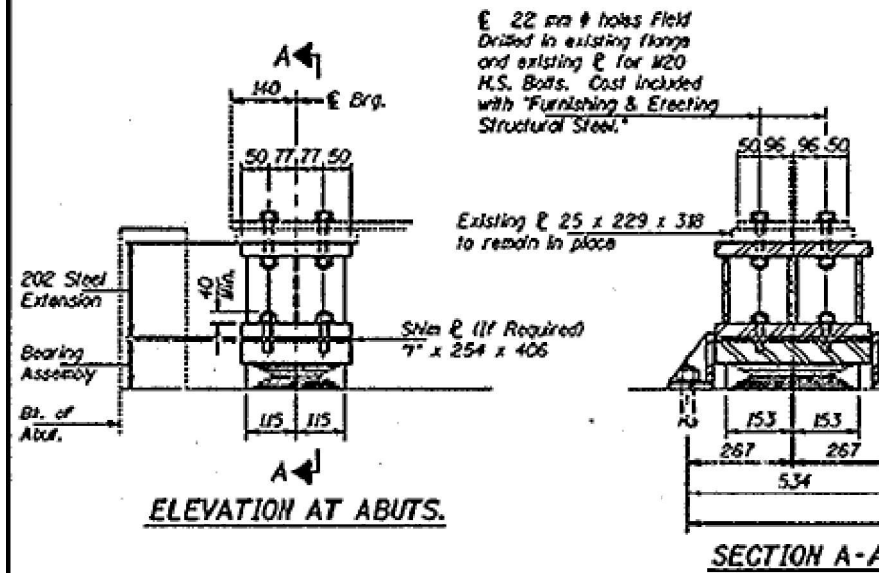
EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0019

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

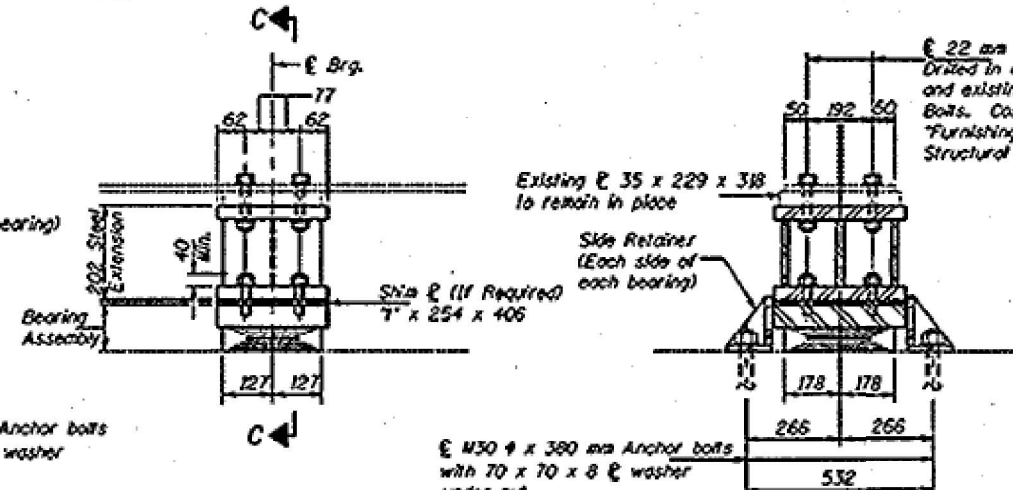
F.A.I. F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26R)BP-1	LIVINGSTON	24	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66P81	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APP'D	SHEET NO.
12/20/23	WOODSHANK	LIVINGSTON		29
				22 SHEETS

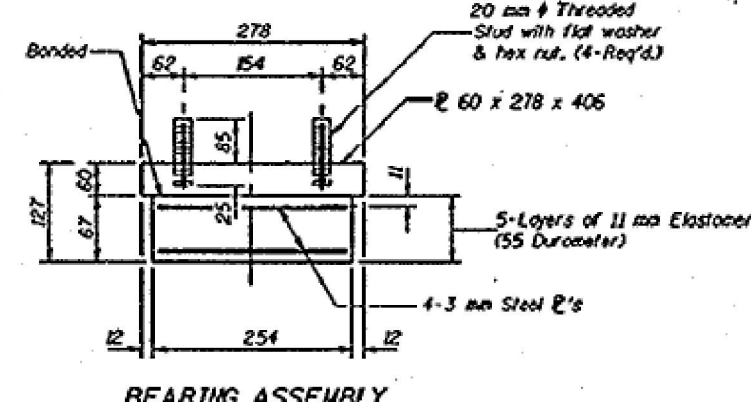
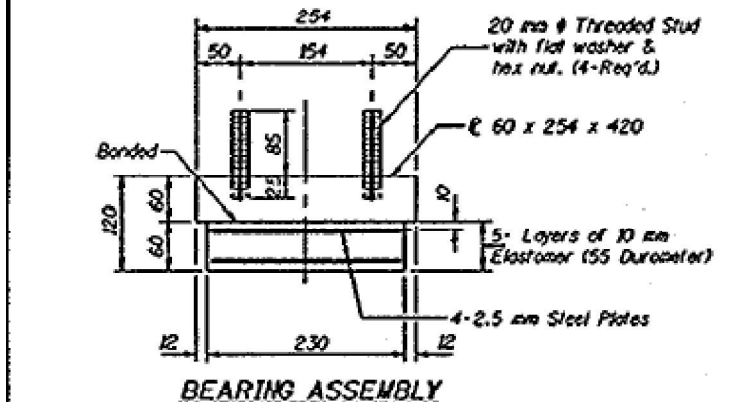
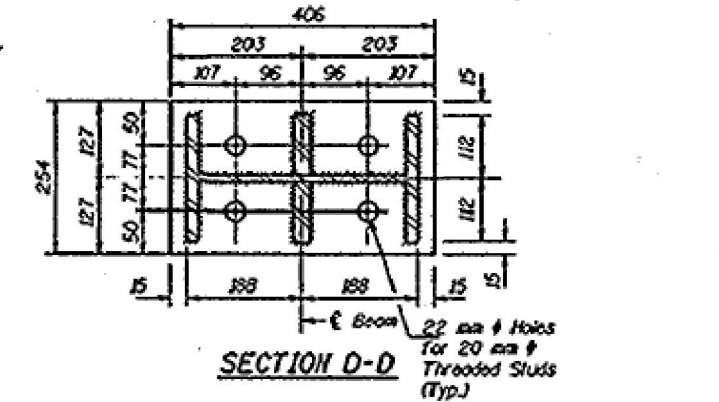
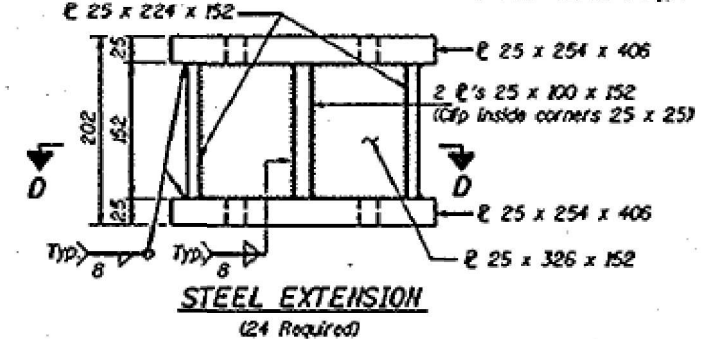
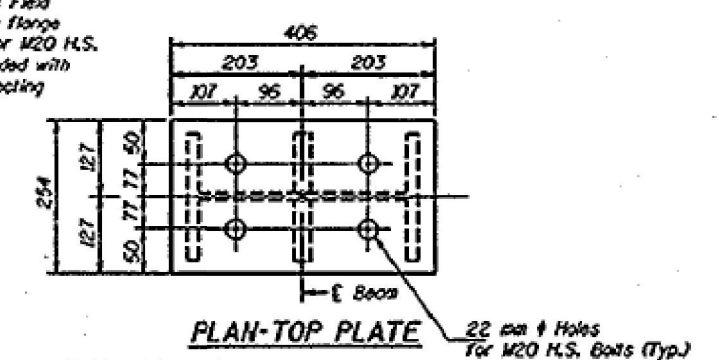


TYPE I ELASTOMERIC EXP. BRG.



ELEVATION AT PIER #1

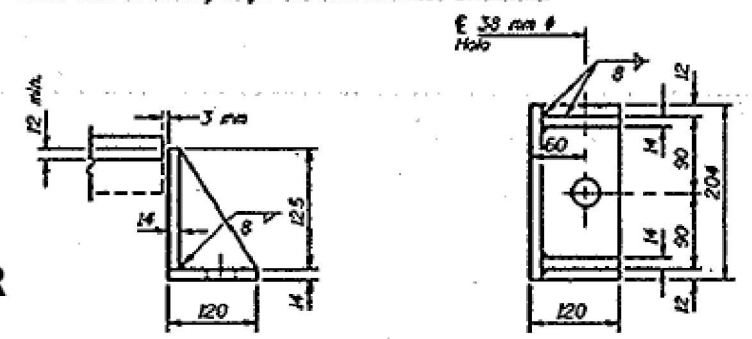
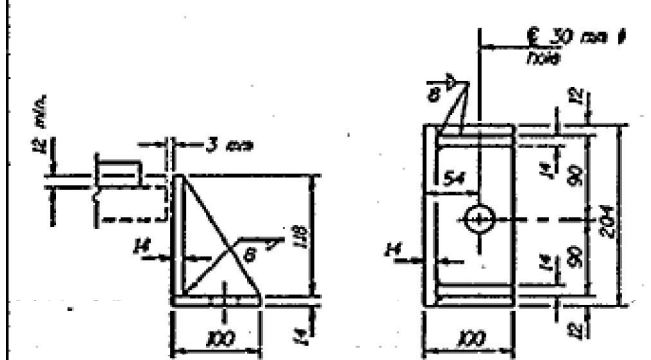
TYPE I ELASTOMERIC EXP. BRG.



Notes: For anchor bolt installation details see sheet #21 of 22. See sheet #13 of 22 for Jack and Remove Existing Bearing Procedure. Shim plates shall not be placed under Bearing Assembly. Weight of Shim Plates, Steel Extensions, Anchor Bolts, nuts and washers, and Side Retainers is included in "Furnishing & Erecting Structural Steel." Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

TABLE - SHIM PLATE THICKNESS 7" (mm)

Location	Beam Number							
	1 A	1	2	3	4	5	6	6 A
West Abutment	-	-	-	-	-	12	18	-
Pier No. 1	-	-	-	-	-	14	20	-
East Abutment	-	-	-	-	-	12	18	-



TWO STRUCTURES BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24
Jack and Remove Existing Bearings	Each	18

BEARING DETAILS
F.A.P. ROUTE 317 - SECTION (26R)BR
LIVINGSTON COUNTY
STATION 7+220.000

EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 053-0019 FOR
INFORMATION ONLY

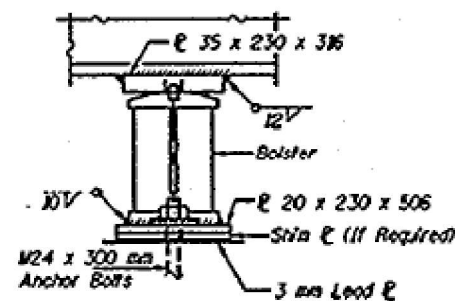
DESIGNED: *[Signature]*
CHECKED: *[Signature]*
DRAWN: *[Signature]*
DATE: FEBRUARY 26 1997

MODEL: Default
FILE NAME: C:\pwworkspace\woodshank\102164968P81.dgn

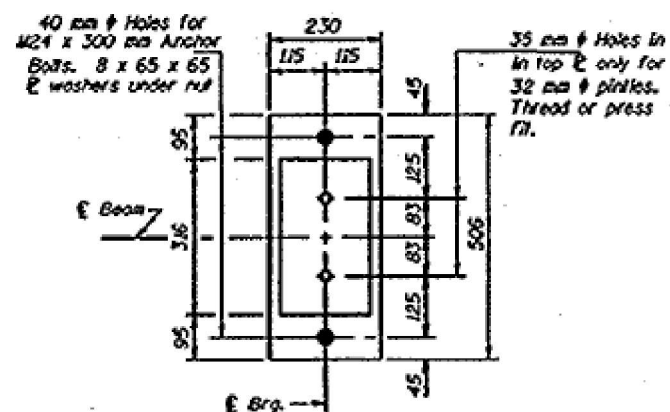
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 053-0019	F.A.I. F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 7/24/2024	CHECKED - YP	REVISED -			55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	23
	DATE - 5/23/2024	REVISED -						CONTRACT NO. 66P81	
							ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

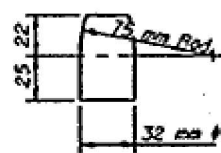
DATE	BY	CHECKED	SCALE	SHEET NO.
1/20/97	RWD	LYN	1/2"	30
PROJECT NO.	SHEET NO.	TOTAL SHEETS		
053-0019	22	22		



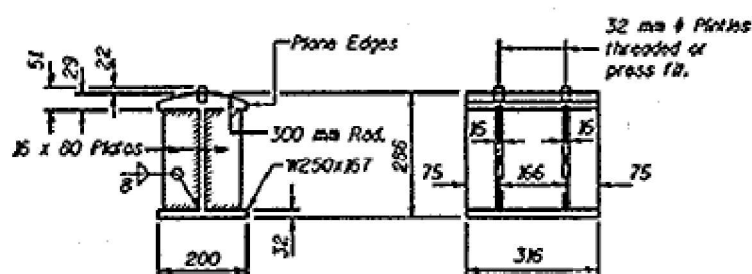
PIER No. 2, BEAMS 1A & 6A
(2 Required)



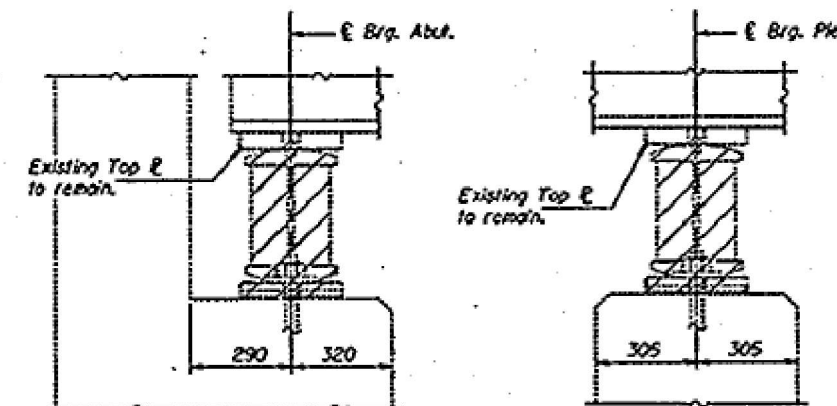
PLAN



DETAIL OF PINTLE



DETAIL OF BOLSTER
AT PIER 2



AT ABUTMENTS
(Dimensions at Rt. L's)
(Typ. for all Abut.)

AT PIER #1
(Dimensions at Rt. L's)

JACK AND REMOVE EXISTING BEARING BEAMS 1 THRU 6

Hatched areas indicate Removal of Existing Bearing.
Jacks shall be placed under existing beams and cribbing shall be provided.

JACK AND REMOVE EXISTING BEARING PROCEDURE

- Jacking and Removing Existing Bearings shall be done after existing deck removal is completed.
- Prior to ordering material, the Engineer shall verify steel extension and shim plate thicknesses required at each bearing.
- The Contractor shall submit for approval by the Engineer, plans for jacking and cribbing prior to commencing any work at the bearings. The max dead load reaction with the deck removed (per bearing) at each Abut. = 12.1 kN and at Pier 1 = 38.0 kN. Min. Jack capacity at each beam shall be 25 kN at Abutments and 16 kN at Pier 1.
- Jacking shall be limited to a maximum of 6 mm.
- Remove the existing anchor bolts flush with the concrete surface, grind smooth, and seal with epoxy. The rockers and bottom plates shall be removed, leaving the existing top plate intact. Cost included with "Jack & Remove Existing Bearing."
- The new bearings and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is poured.
- New beams shall be installed after the replacement of existing bearings.

	0.4 Sp. 1 or Sp. 3	Pier 1 of 2	0.5 Sp. 2
I (10 ⁶ mm ⁴)	2460	2460	2460
D (kN-m)	14.46	14.46	14.46
MR (kN-m)	244.5	396.5	178.3
ML (kN-m)	391.8	305.6	376.4
Mimp (kN-m)	112.1	85.3	102.7
M (Total) (kN-m)	748.4	787.4	657.4
fs (MPa)	127.1	133.7	111.6

	Abut.	Pier
RR (kN)	200.3*	265.2
RL (kN)	148.4	175.2
Imp. (kN)	42.4	48.9
R (Total) (kN)	391.1	489.3

I is the moment of inertia of the steel section used in computing fs
fs is the sum of the stresses due to
 $M_R + M_L + M_{imp}$
MR - Moment due to dead loads.
ML - Moment due to live load.
Mimp - Moment due to the live load impact

Note: Work this sheet with Sheet #12 of 22.

* Includes 104 kN due to diaphragm and approach pavement.

EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 053-0019 FOR
INFORMATION ONLY

BEARING DETAILS
F.A.P. ROUTE 317 - SECTION (26R)BR
LIVINGSTON COUNTY
STATION 7+220.00

DESIGNED: *Ronald Woodshank*
CHECKED: *Rod A. Volter*
DRAWN: *Yvonne Taylor*
DESIGNED: *Ronald Woodshank*

FEBRUARY 26 1997
DESIGNED: *Ronald Woodshank*
CHECKED: *Rod A. Volter*
PASSED: *Ralph E. Anderson*

I-2-E1 (M) 3-31-95

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR STRUCTURE NO. 053-0019

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55, 317	(53-5HB-3)BP-2, (26BR)BP-1	LIVINGSTON	24	24
CONTRACT NO. 66P81				
ILLINOIS FED. AID PROJECT				