

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	1
*FAI 55 (I-55), & FAP 326 (IL 47)		ILLINOIS	CONTRACT NO. 66M21	

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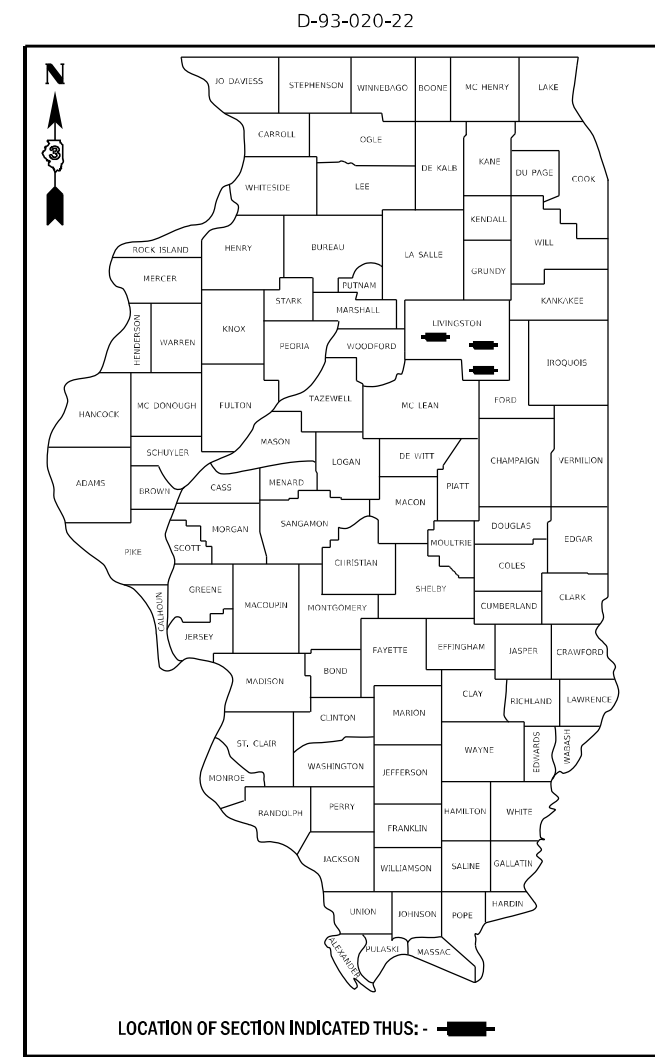
HIGHWAY STANDARDS

- | | |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006-00 | DECIMAL OF AN INCH AND OF A FOOT |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH |
| 701206-05 | LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS \geq 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701321-18 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |

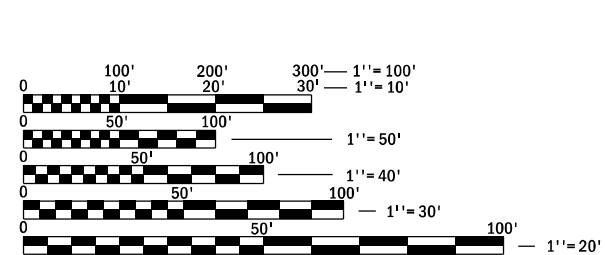
PROPOSED HIGHWAY PLANS

ROUTES FAI 55 (I-55) & FAP 326 (IL 47) SECTIONS (122BR, 53-6HB, 124BR-1)BP PROJECT NHPP-LMAY(985) BRIDGE PAINTING LIVINGSTON COUNTY

C-93-041-22



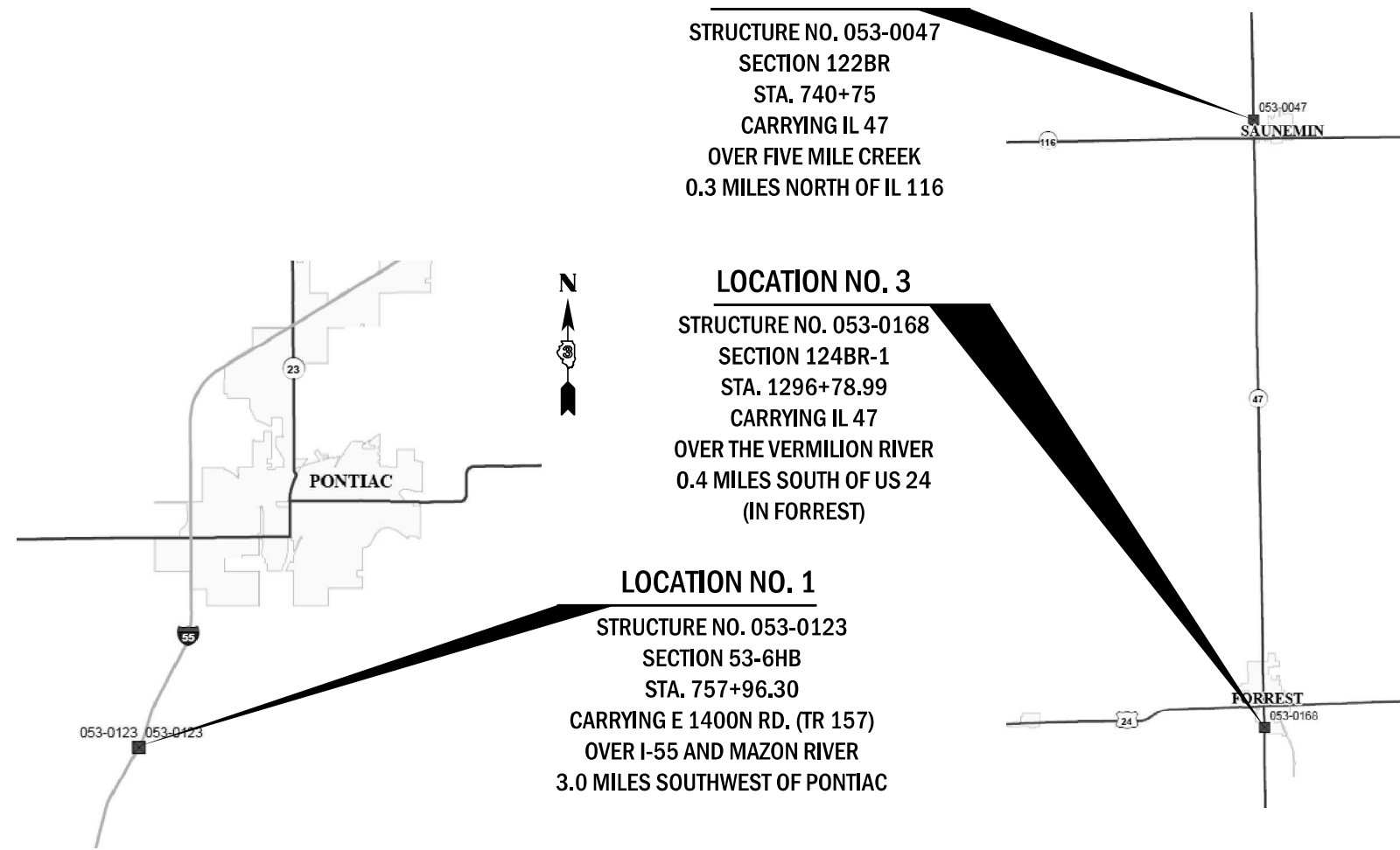
FUNCTIONAL CLASSIFICATION		
LOCATION NO. 1	LOCATION NO. 2	LOCATION NO. 3
RURAL INTERSTATE	RURAL OTHER PRINCIPAL ARTERIAL	RURAL OTHER PRINCIPAL ARTERIAL
F.A.I. ROUTE 55 (I-55)	F.A.P. ROUTE 326 (IL 47)	F.A.P. ROUTE 326 (IL 47)
2019 ADT = 20500	2019 ADT = 3150	2019 ADT = 2250
P.V. 72.0 %	P.V. 64.3 %	P.V. 56.7 %
S.U. 2.6 %	S.U. 8.7 %	S.U. 4.4 %
M.U. 25.4 %	M.U. 27.0 %	M.U. 38.9 %



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 3 NO. (815) 434-6131
CONTRACT NO. 66M21



LOCATION NO. 2
STRUCTURE NO. 053-0047
SECTION 122BR
STA. 740+75
CARRYING IL 47
OVER FIVE MILE CREEK
0.3 MILES NORTH OF IL 116

LOCATION NO. 3
STRUCTURE NO. 053-0168
SECTION 124BR-1
STA. 1296+78.99
CARRYING IL 47
OVER THE VERMILION RIVER
0.4 MILES SOUTH OF US 24
(IN FORREST)

LOCATION NO. 1
STRUCTURE NO. 053-0123
SECTION 53-6HB
STA. 757+96.30
CARRYING E 1400N RD. (TR 157)
OVER I-55 AND MAZON RIVER
3.0 MILES SOUTHWEST OF PONTIAC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 02, 2022

David Almond
REGIONAL ENGINEER

May 13, 2022 *Jack A. Elk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 *Stephen M. Smith*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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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 APPROVED ADJUSTMENTS PRIOR TO ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL BOX BEAMS, STEEL I BEAMS, STEEL GIRDERS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE FOLLOWING SPECIAL PROVISIONS.

"CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

"CLEANING AND PAINTING EXISTING STEEL STRUCTURES",

THE CONTRACTOR IS 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 LISCENSED TO DISPOSED OF LEAD/NON-LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE LEAD/NON-LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN REMOVED FROM THE JOB SITE AND DISPOSED OF.

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	2
*FAI 55 (I-55) & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				

STRUCTURE NOTES CONT'D

STRUCTURE NO. 053-0123 IS DESIGNATED AS "LOCATION 1".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 053-0123 ARE "NON-LEAD" COATINGS.

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

CLEANING AND PAINTING STRUCTURAL STEEL BOX BEAMS AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL BOX BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

EXTERIOR: ALL EXISTING STRUCTURAL STEEL INCLUDING THE ENTIRE SURFACE ARE OF THE STEEL BOX BEAMS, STEEL BEARINGS/PLATES, STEEL STIFFENERS, DRAINS, STEEL HAND RAILS (WHEN PRESENT) AND STEEL ANGLE BRACKETS.

INTERIOR: ALL EXISTING STRUCTURAL STEEL WITHIN 24 FEET AS MEASURED FROM THE END OF THE BEAM INCLUDING THE ENTIRE SURFACE AREA OF THE STEEL BOX BEAMS, STEEL STIFFENERS, DIAPHRAGMS, CROSS AND LATERAL FRAMING AND STEEL ANGLE BRACKETS.

ALL EXISTING STRUCTURAL STEEL COMPONENTS AS DESCRIBED ABOVE SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

PAINTING.

EXTERIOR: THE FINAL FINSH COAT FOR ALL EXTERIOR STRUCTURAL STEEL SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

INTERIOR: THE FINAL FINSH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL NO. 5B 7/1.

ADDITIONAL REQUIREMENTS.

THE ENDS OF THE STEEL BOX BEAMS ARE MOISTURED SEALED. IN THE EVENT THAT THE SEALS ARE DETERIORATED, DAMAGED OR REMOVED DUE TO THE CONTRACTORS CLEANING AND PAINTING OPERATIONS, THE SEALS SHALL BE REPLACED ACCORDING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.

THE ENGINEER SHALL INSPECT EXISTING RODENT SCREENS FOR THEIR CONTINUED USE. IF THE ENGINEER DETERMINES THAT THE RODENT SCREENS ARE NO LONGER EFFECTIVE, THE CONTRACTOR SHALL REPLACE THE SCREENS AS DIRECTED BY THE ENGINEER.

STRUCTURE NOTES CONT'D

STRUCTURE NO. 053-0047 IS DESIGNATED AS "LOCATION 2".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 053-0047 ARE "NON-LEAD" COATINGS.

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

CLEANING AND PAINTING STRUCTURAL STEEL I-BEAMS AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL I BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

ALL EXISTING STRUCTURAL STEEL, INCLUDING ALL VISIBLE SURFACES OF THE STEEL I-BEAMS, DIAPHRAGMS, STEEL COMPONENTS OF BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE BRACKETS AND STEEL HANDRAILS (WHEN PRESENT).

ALL EXISTING STRUCTURAL STEEL COMPONENTS AS DESCRIBED ABOVE SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

PAINTING.

THE FINAL FINISH COAT FOR THE "EXTERIOR" FACE OF THE FASCIA BEAMS, THE BOTTOM FLANGE OF THE FASCIA BEAMS AND THE EXTERIOR BEARINGS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

THE FINAL FINISH COAT FOR THE INTERIOR SURFACE OF THE FASCIA BEAMS, ALL EXPOSED SURFACES OF THE INTERIOR I-BEAMS, STEEL COMPONENTS OF ALL INTERIOR BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE SHALL BE "GRAY, MUNSELL NO. 5B 7/1.

STRUCTURE NOTES CONT'D

STRUCTURE NO. 053-0168 IS DESIGNATED AS "LOCATION 3".

EXISTING STRUCTURAL STEEL COATING ON STRUCTURE NO. 053-0168 ARE "NON-LEAD" COATINGS.

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

CLEANING AND PAINTING STRUCTURAL STEEL I-BEAMS AND STEEL COMPONENTS.

CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL I BEAMS AND STEEL COMPONENTS SHALL BE AS SPECIFIED IN THE APPLICABLE SPECIAL PROVISIONS AND AS SPECIFIED BELOW.

CLEANING.

ALL EXISTING STRUCTURAL STEEL, INCLUDING ALL VISIBLE SURFACES OF THE STEEL I-BEAMS, DIAPHRAGMS, STEEL COMPONENTS OF BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE BRACKETS AND STEEL HANDRAILS (WHEN PRESENT).

ALL EXISTING STRUCTURAL STEEL COMPONENTS AS DESCRIBED ABOVE SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

PAINTING.

THE FINAL FINISH COAT FOR THE "EXTERIOR" FACE OF THE FASCIA BEAMS, THE BOTTOM FLANGE OF THE FASCIA BEAMS AND THE EXTERIOR BEARINGS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8.

THE FINAL FINISH COAT FOR THE INTERIOR SURFACE OF THE FASCIA BEAMS, ALL EXPOSED SURFACES OF THE INTERIOR I-BEAMS, STEEL COMPONENTS OF ALL INTERIOR BEARING ASSEMBLIES, CROSS AND LATERAL BRACING, STEEL WEB STIFFENERS, DRAINS, STEEL ANGLE SHALL BE "GRAY, MUNSELL NO. 5B 7/1.

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PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES FOR STRUCTURES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	3
*FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21	
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. 053-0123	S.N. 053-0047/0168
67100100	MOBILIZATION	L SUM	1	0.25	0.75
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2		2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2		2
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1050	350	700
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1050	1050	
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	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2140	2140	
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1170	1020	150
* 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1293	1218	75
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	14	8	6
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	

*= SPECIALTY ITEM

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PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	4
*FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21	
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. 053-0123	S.N. 053-0047/0168
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1
X5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1		1
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1	
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1		1
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1		1
X7010101	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	EACH	2	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
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	84		84

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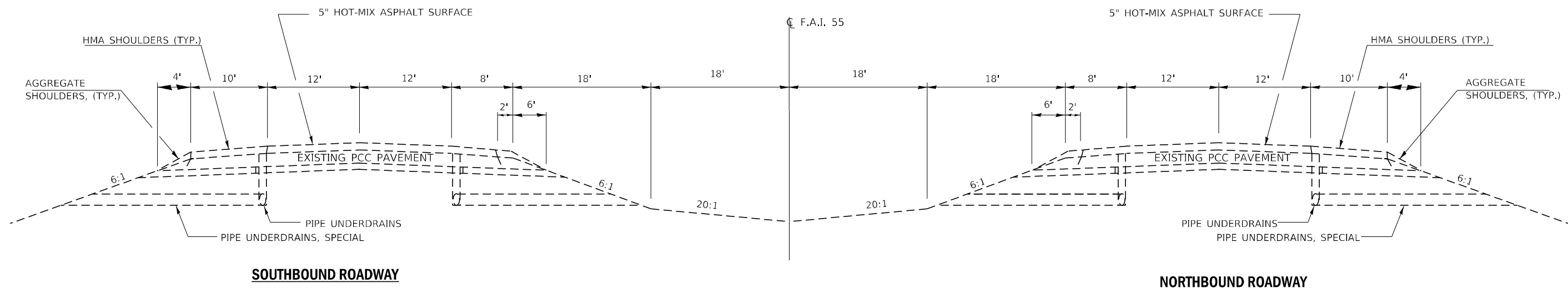
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

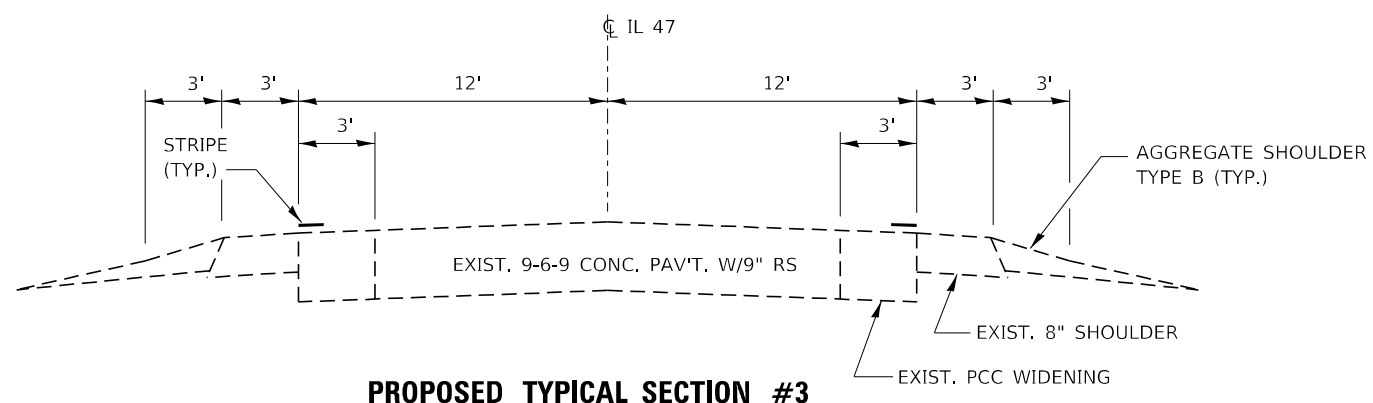
SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	5
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				

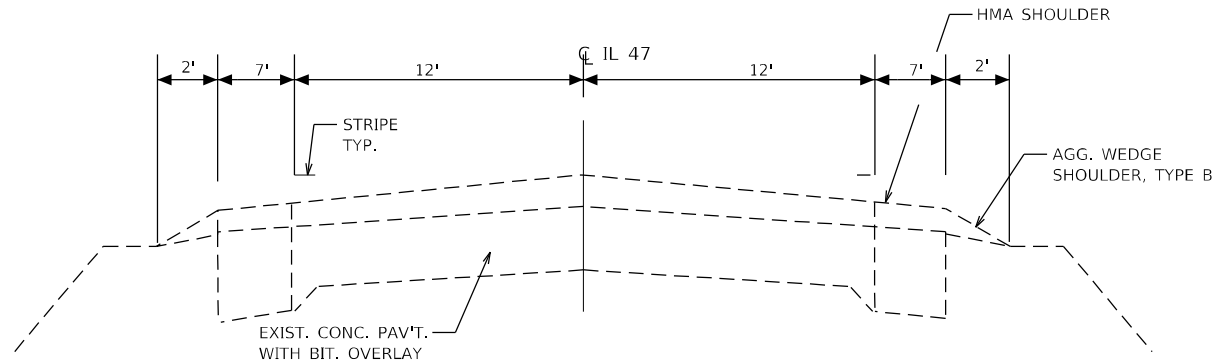


TYPICAL SECTION
LOCATION 1 - F.A.I. 55 (I-55)

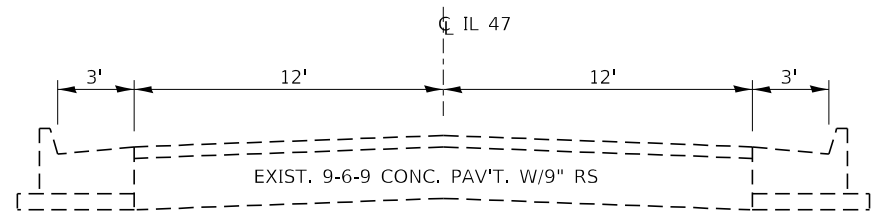


PROPOSED TYPICAL SECTION #3
LOCATION 3 - F.A.P. 326 (IL 47)
 STA. 1288+75 TO STA. 1295+58

BRIDGE OMISSION STA 1295+58 TO STA 1297+99



TYPICAL SECTION
LOCATION 2 - F.A.P. 326 (IL 47)
 STA. 704+50 TO STA. 739+81
 STA. 741+69 TO STA. 743+00



TYPICAL SECTION
LOCATION 3 - F.A.P. 326 (IL 47)
 STA. 1297+99 TO STA. 1562+42

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PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
53-6HB, 122BR, 124BR-1)BP		LIVINGSTON	28	6
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION FOR LOCATION NO. 1 - STRUCTURE NO. 053-0123

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701402	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	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
	EACH	EACH	CAL DA	EACH	FOOT	FOOT	EACH	EACH
TOTAL	1	1	28	8	350	1050	1	3

SCHEDULE - PAVEMENT MARKING

LOCATION NO. 1 - STRUCTURE NO. 053-0123

LOCATION	PAVEMENT MARKING REMOVAL WATERBLASTING		POLYUREA PAVEMENT MARKING TYPE I	POLYUREA PAVEMENT MARKING TYPE I
	LINE 4"	LINE 6"	LINE 4"	LINE 6"
	SQ FT		FOOT	FOOT
NORTHBOUND LANES				
STAGE I	177	255	535	
STAGE II	177		535	510
SUBTOTAL	354	255	1070	510
SOUTHBOUND LANES				
STAGE I	177	255	535	
STAGE II	177		535	510
SUBTOTAL	354	255	1070	510
TOTAL	1218		2140	1020

SCHEDULE - CLEANING AND PAINTING

LOCATION NO. 1 - STRUCTURE NO. 053-0123

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
	L SUM	L SUM	L SUM
TOTAL	1	1	1

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PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES - LOCATION NO. 1
STRUCTURE NO. 053-0123**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	7
*	FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21
	ILLINOIS	FED. AID PROJECT		

SCHEDULE - TRAFFIC CONTROL AND PROTECTION FOR LOCATION NO. 2 - STRUCTURE NO. 053-0047

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701321	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY INFORMATION SIGNING	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3
	EACH	EACH	EACH	EACH	SQ FT	FOOT	EACH
TOTAL	1	1	3	1	42	350	2

**SCHEDULE - PAVEMENT MARKING
LOCATION NO. 2 - STRUCTURE NO. 053-0047**

LOCATION	PAVEMENT MARKING REMOVAL WATERBLASTING	POLYUREA PAVEMENT MARKING TYPE I
	LINE 6" SQ FT	LINE 6" FOOT
NORTHBOUND LANES		
STAGE I	75	150
TOTAL	75	150

**SCHEDULE - CLEANING AND PAINTING
LOCATION NO. 2 - STRUCTURE NO. 053-0047**

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
	L SUM	L SUM	L SUM
TOTAL	1	1	1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES - LOCATION NO. 2
STRUCTURE NO. 053-0047**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	8
*FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21	
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION FOR LOCATION NO. 3 - STRUCTURE NO. 053-0168

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701321	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY INFORMATION SIGNING	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3
	EACH	EACH	EACH	EACH	SQ FT	FOOT	EACH
TOTAL	1	1	3	1	42	350	2

**SCHEDULE - PAVEMENT MARKING
LOCATION NO. 3 - STRUCTURE NO. 053-0168**

LOCATION	PAVEMENT MARKING REMOVAL WATERBLASTING	POLYUREA PAVEMENT MARKING TYPE I
	LINE 6" SQ FT	LINE 6" FOOT
NORTHBOUND LANES		
STAGE 1	75	150
TOTAL	75	150

**SCHEDULE - CLEANING AND PAINTING
LOCATION NO. 3 - STRUCTURE NO. 053-0168**

LOCATION	CONTAINMENT AND DISPOSAL NON-LEAD PAINT CLEANING RESIDUES NO. 3	CLEANING AND PAINTING STEEL BRIDGE NO. 3	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3
	L SUM	L SUM	L SUM
TOTAL	1	1	1

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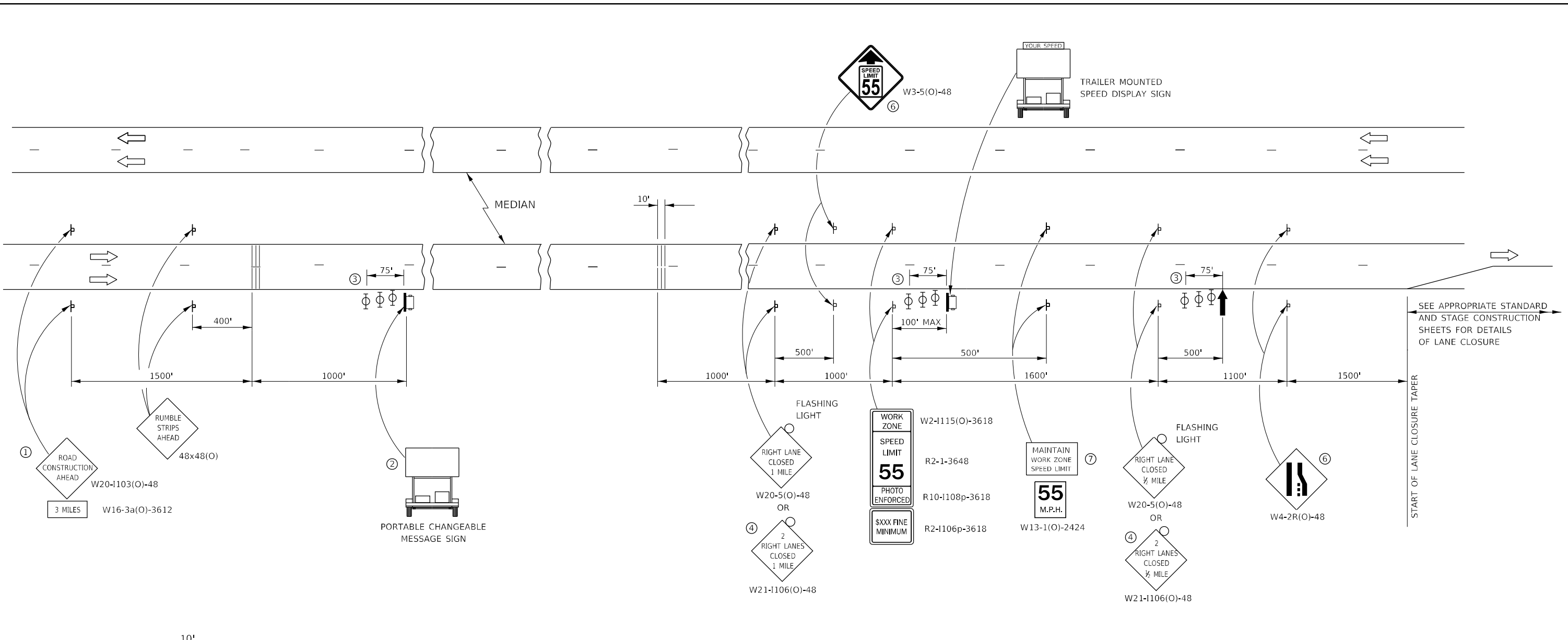
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

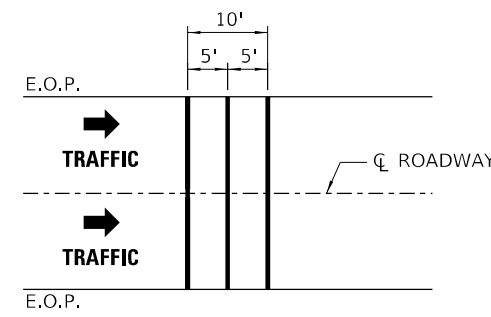
**SCHEDULES - LOCATION NO. 3
STRUCTURE NO. 053-0168**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	9
*FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21	
ILLINOIS FED. AID PROJECT				



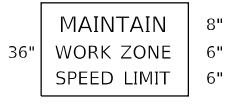
SEE APPROPRIATE STANDARD AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE



TEMPORARY RUMBLE STRIP (SPECIAL)
 FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE CLOSED" / " x MILES AHEAD"
 "LEFT LANE CLOSED" / " x MILES AHEAD"
 "ALL LANES OPEN"
- ③ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ④ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑤ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑥ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

- ⑦ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS. 48"



"MAINTAIN WORK ZONE SPEED LIMIT" SIGN SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THIS TRAFFIC CONTROL STANDARD.

- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ≡ TEMPORARY RUMBLE STRIPS (SEE SPECIAL PROVISION)

GENERAL NOTE:
 THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.
 WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.
 THE FIRST THREE SIGNS, RUMBLE STRIPS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).
 SEE SPECIAL PROVISIONS.

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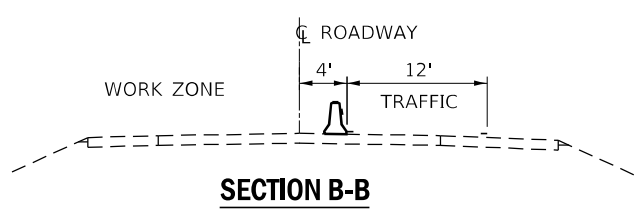
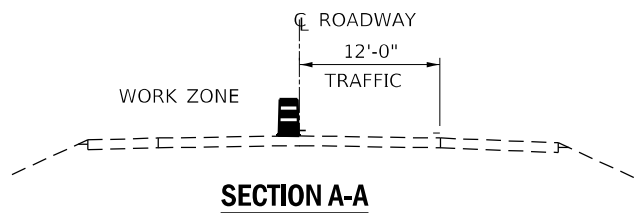
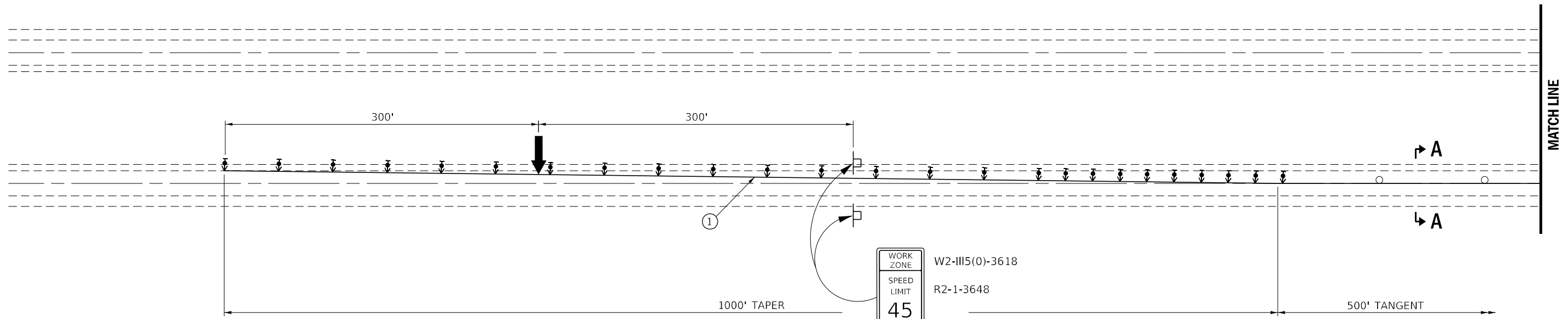
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION STANDARD 701400
 FOR LOCATION NO. 1**

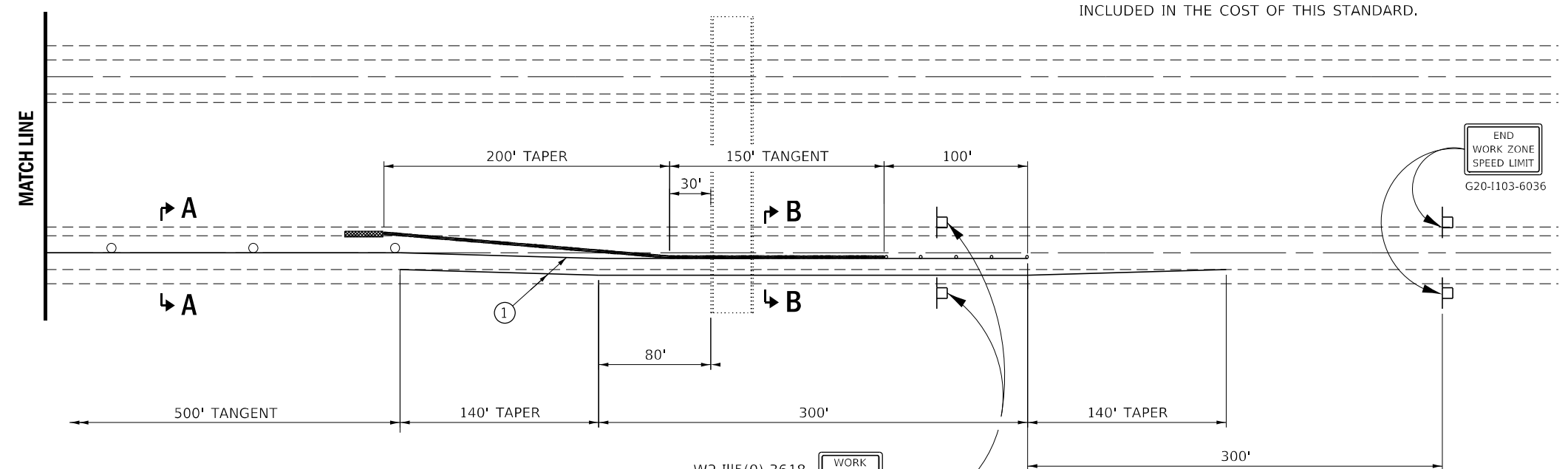
SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	10
*FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21	
ILLINOIS FED. AID PROJECT				



SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TRAFFIC CONTROL DRUM (TANGENT)
- TRAFFIC CONTROL DRUM, WITH STEADY BURN MONODIRECTIONAL LIGHT (TAPERS)
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. MARKERS ON RIGHT SHALL BE SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- IMPACT ATTENUATOR



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. COST OF INSTALLING AND REMOVING THE TEMPORARY PAVEMENT MARKING TAPE SHALL BE INCLUDED IN THE COST OF THIS STANDARD.

GENERAL NOTES

- THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR WITHIN 24" OF THE EDGE OF PAVEMENT OR SHOULDER FOR DAYLIGHT OPERATIONS EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.
- THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.
- TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001 AND ACCORDING TO THE "LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER" AS SHOWN ON SHEETS 13 AND 15 OF 28.
- WHENEVER WORK IS PERFORMED FROM THE BRIDGE DECK, TRAFFIC CONTROL AND PROTECTION SHALL BE ACCORDING TO STANDARD 701201.
- WHENEVER WORK IS BEING PERFORMED IN THE ADJACENT LANE, TRAFFIC CONTROL SHALL BE A MIRROR IMAGE OF WHAT IS SHOWN.

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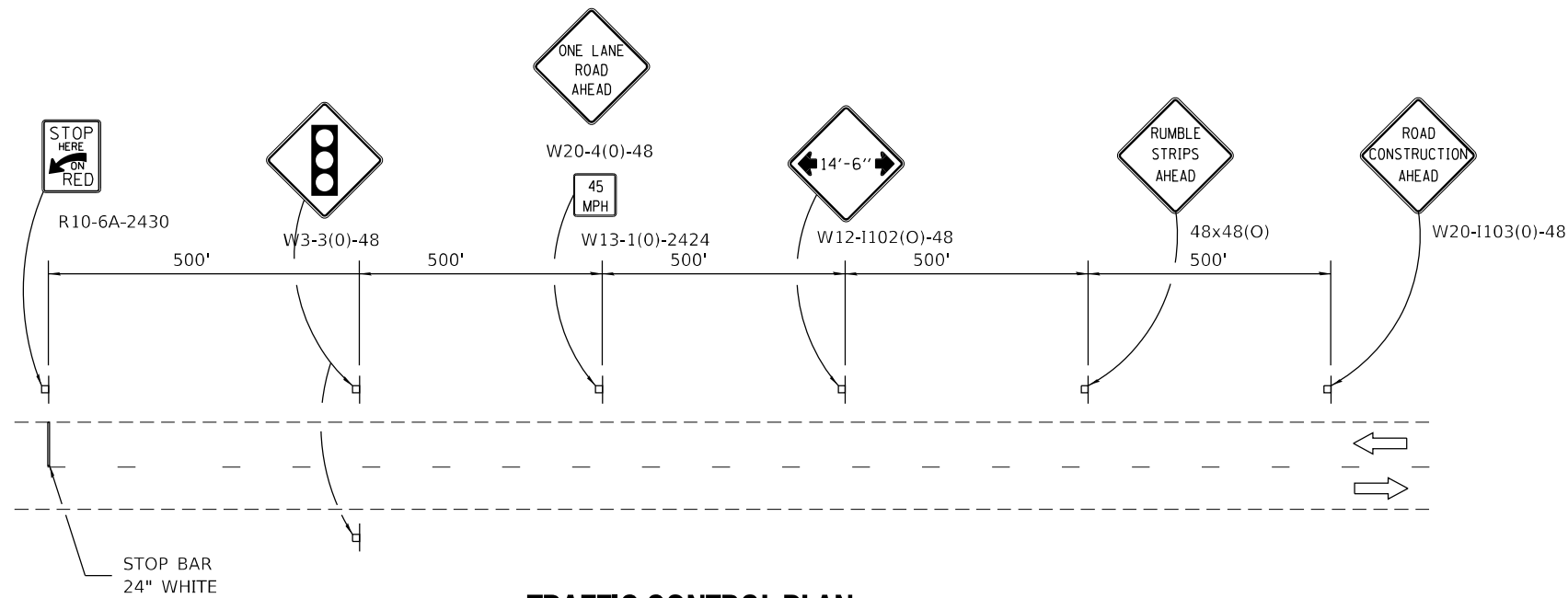
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

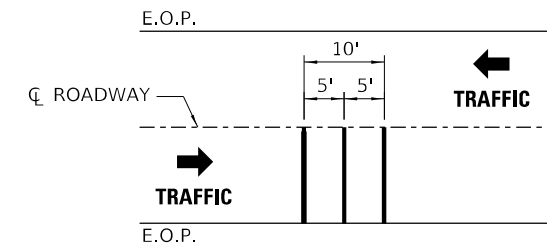
TRAFFIC CONTROL AND PROTECTION, STANDARD 701402
FOR LOCATION NO. 1

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

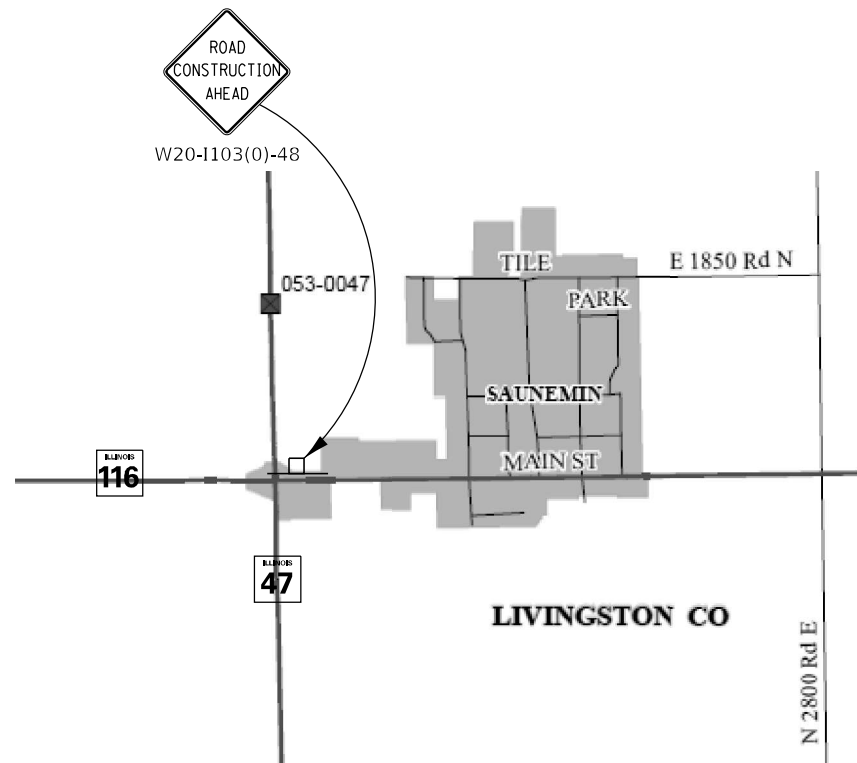
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* (53-6HB, 122BR, 124BR-1)BP		LIVINGSTON	28	11
*FAI 55 (I-55), & FAP 326 (IL 47)				CONTRACT NO. 66M21
ILLINOIS FED. AID PROJECT				



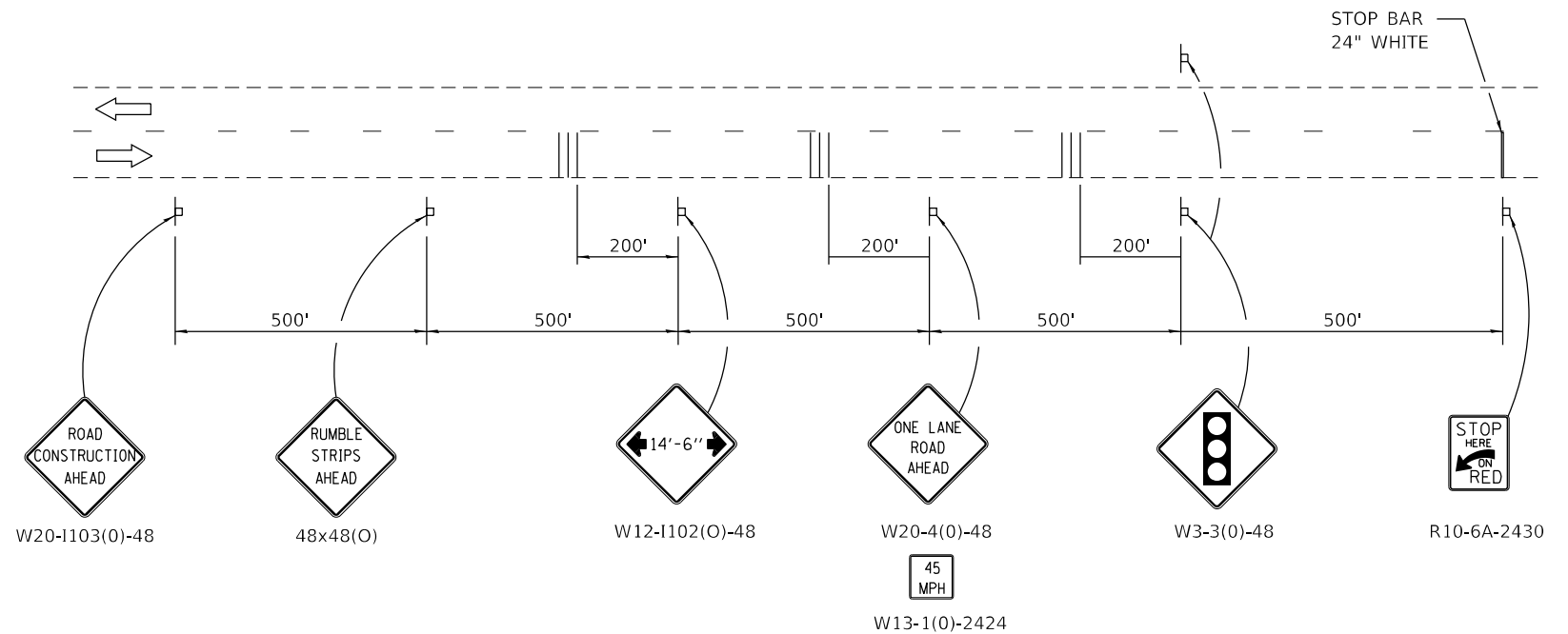
TRAFFIC CONTROL PLAN
NORTHBOUND



TEMPORARY RUMBLE STRIP (SPECIAL)
FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".



ADDITIONAL SIGNAGE
INTERSECTION OF IL ROUTE 47 AND IL ROUTE 116
COST INCLUDED IN STANDARD 701321



TRAFFIC CONTROL PLAN
SOUTHBOUND

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

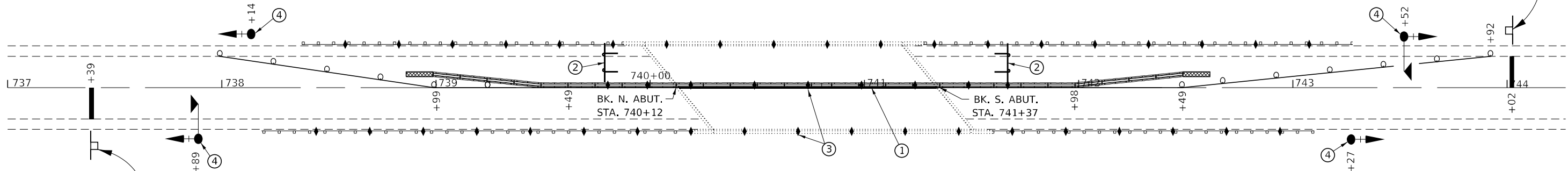
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
FOR LOCATION NO. 2 - STRUCTURE NO. 053-0047

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	12
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				



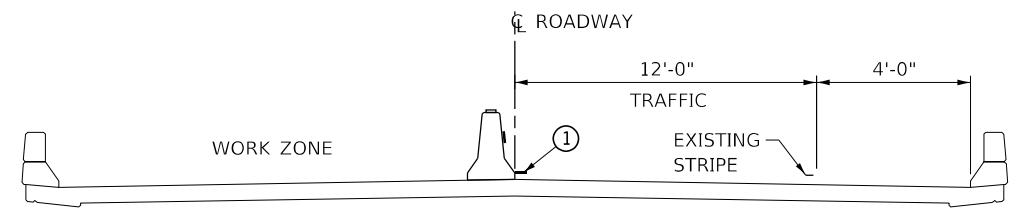
R10-6A-2430



- ① TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ② TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ③ GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 704001 AND 782006.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6' FROM EDGE OF SHOULDER.
- ⑤ PAVEMENT MARKING REMOVAL



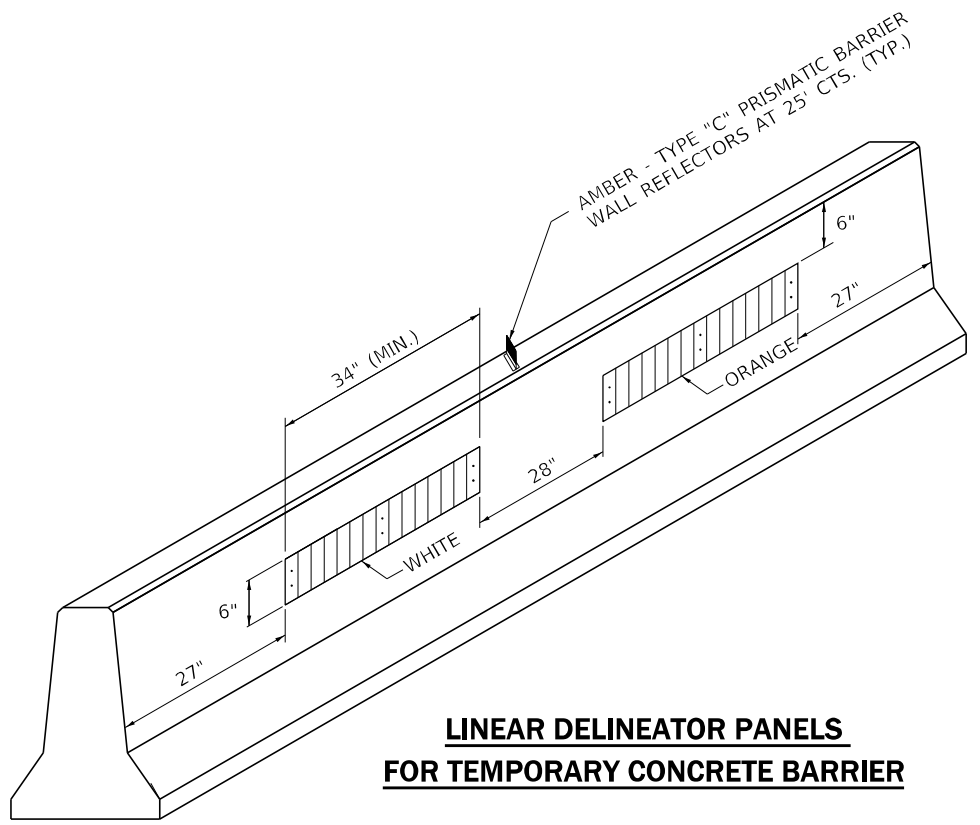
R10-6A-2430



CROSS SECTION
LOOKING SOUTH

LEGEND

- WORK ZONE
- TRAFFIC CONTROL DRUM WITH STEADY BURNING LIGHT (TAPERS)
- TRAFFIC CONTROL DRUM (TANGENTS)
- BARRICADES, TYPE III WITH STEADY BURNING LIGHT
- SIGN
- IMPACT ATTENUATOR, TEMPORARY, (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE AND MICROWAVE DETECTOR
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE



LINEAR DELINEATOR PANELS
FOR TEMPORARY CONCRETE BARRIER

GENERAL NOTES

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

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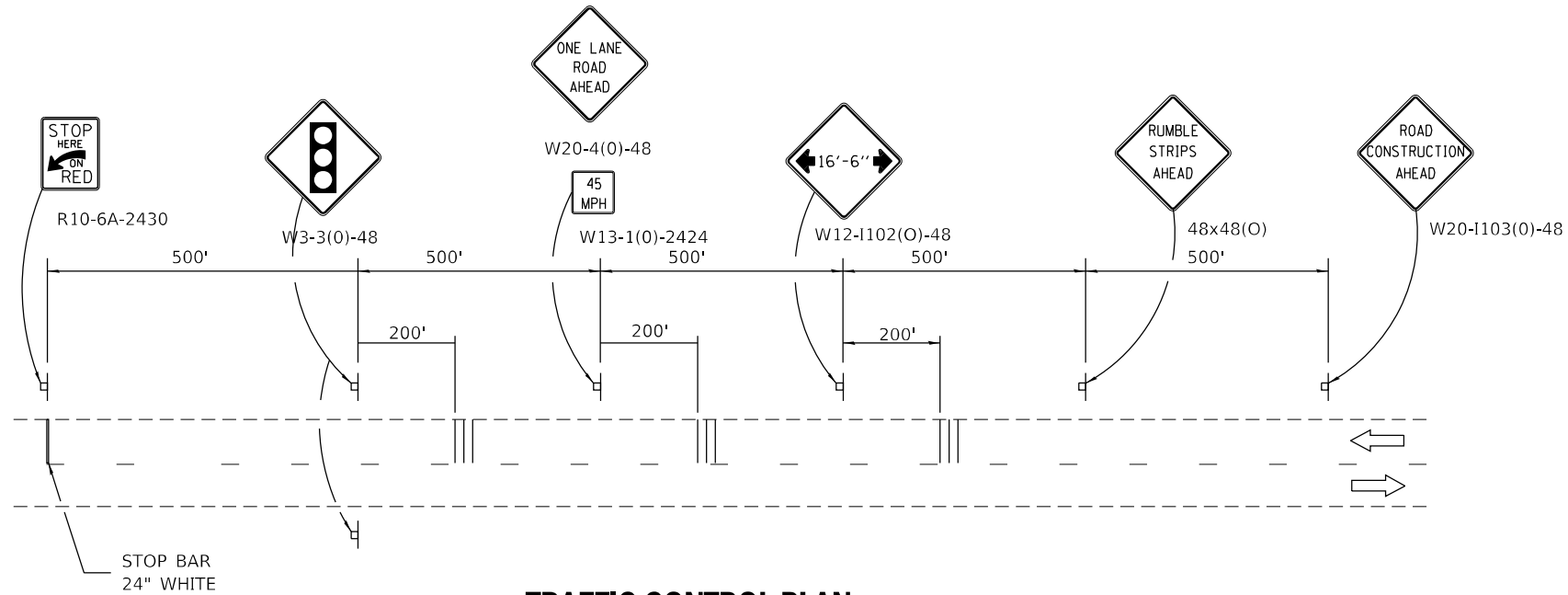
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

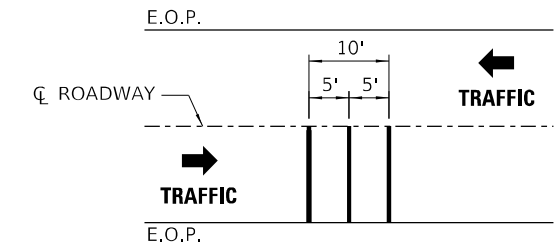
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
FOR LOCATION NO. 2 - STRUCTURE NO. 053-0047

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

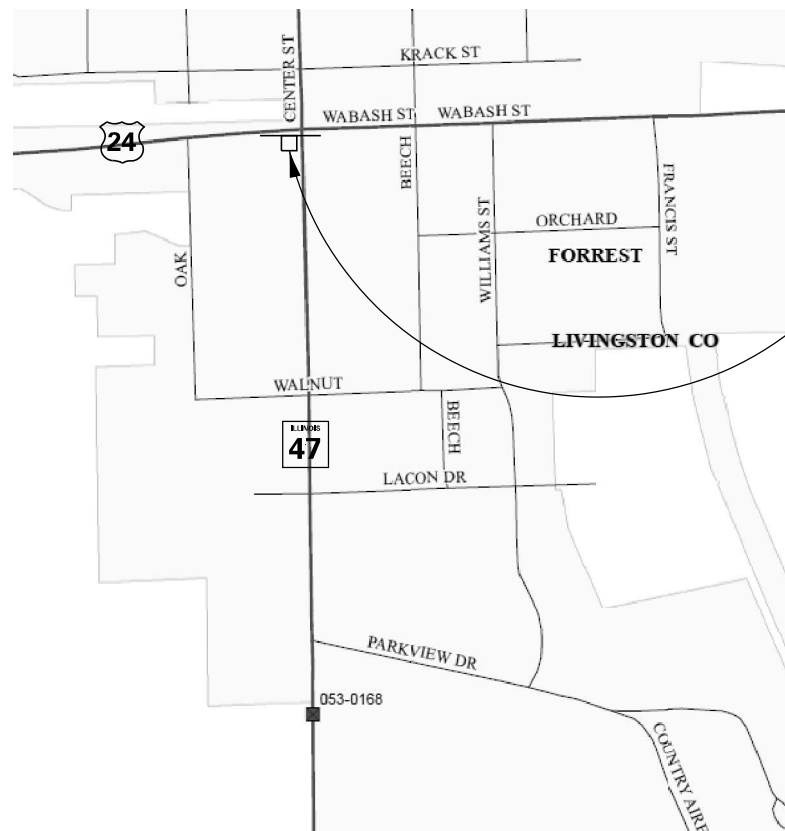
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53-6HB, 122BR, 124BR-1)BP		LIVINGSTON	28	13
*FAI 55 (I-55), & FAP 326 (IL 47)				CONTRACT NO. 66M21
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL PLAN
NORTHBOUND

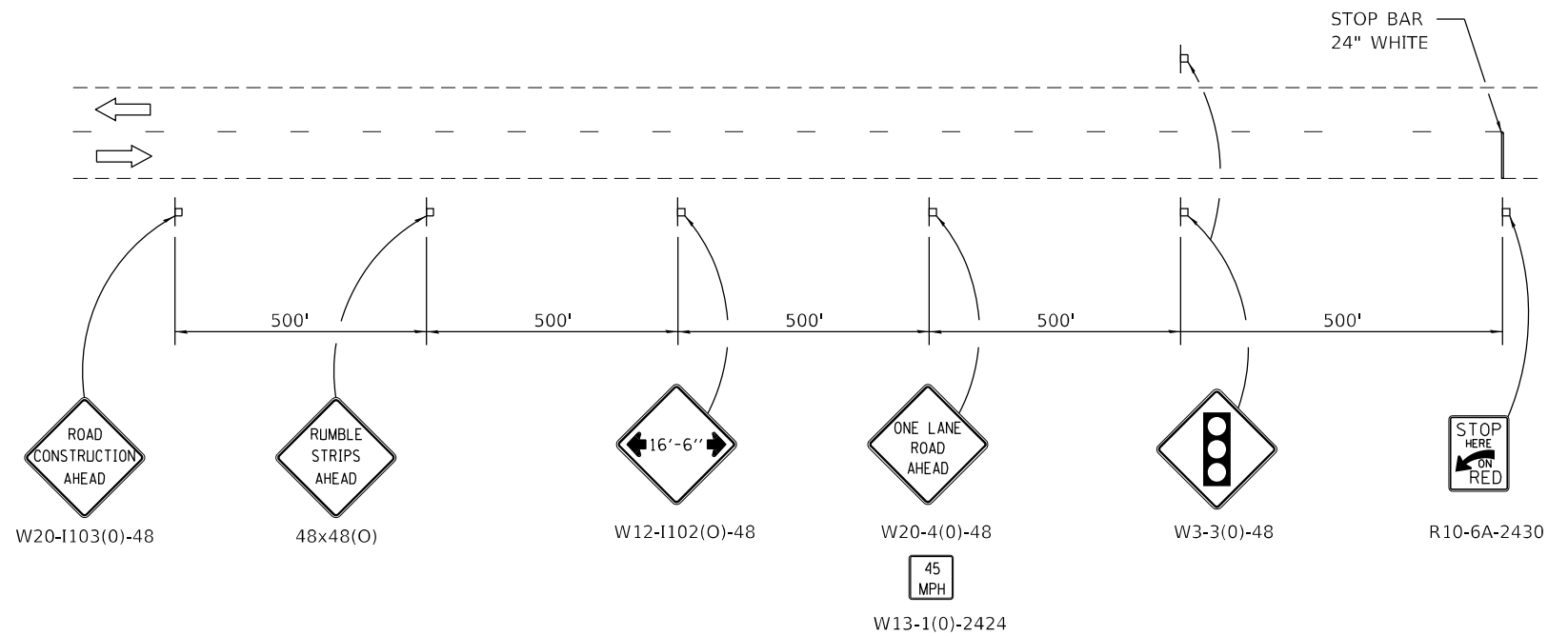


TEMPORARY RUMBLE STRIP (SPECIAL)
FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".



ADDITIONAL SIGNAGE

INTERSECTION OF IL ROUTE 47 AND US ROUTE 24
COST INCLUDED IN STANDARD 701321



TRAFFIC CONTROL PLAN
SOUTHBOUND

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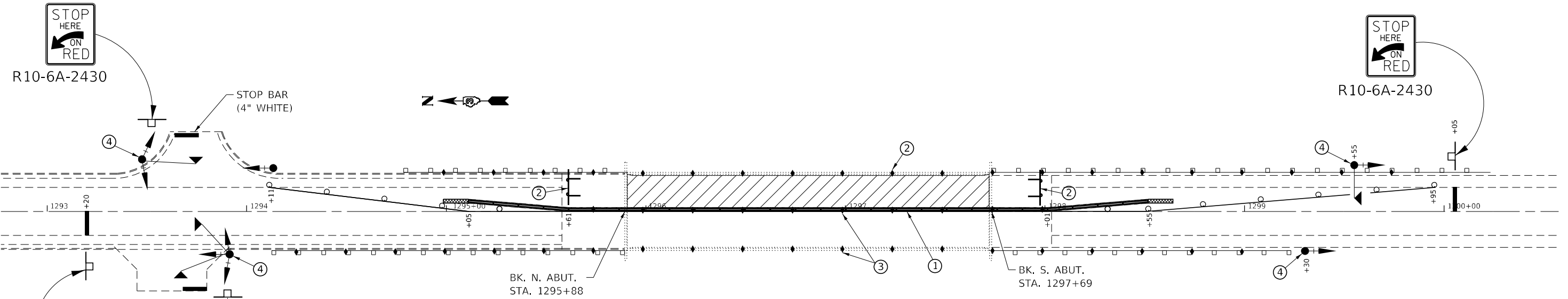
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

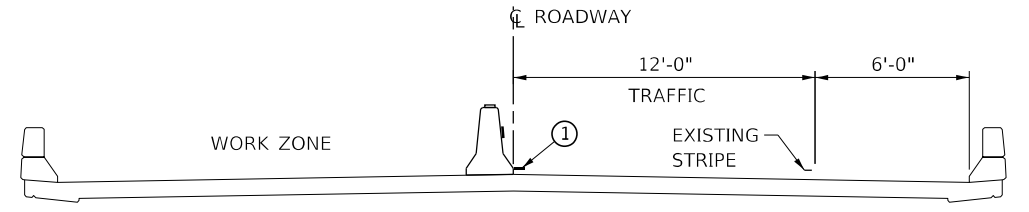
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
FOR LOCATION NO. 2 - STRUCTURE NO. 053-0168

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	14
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				



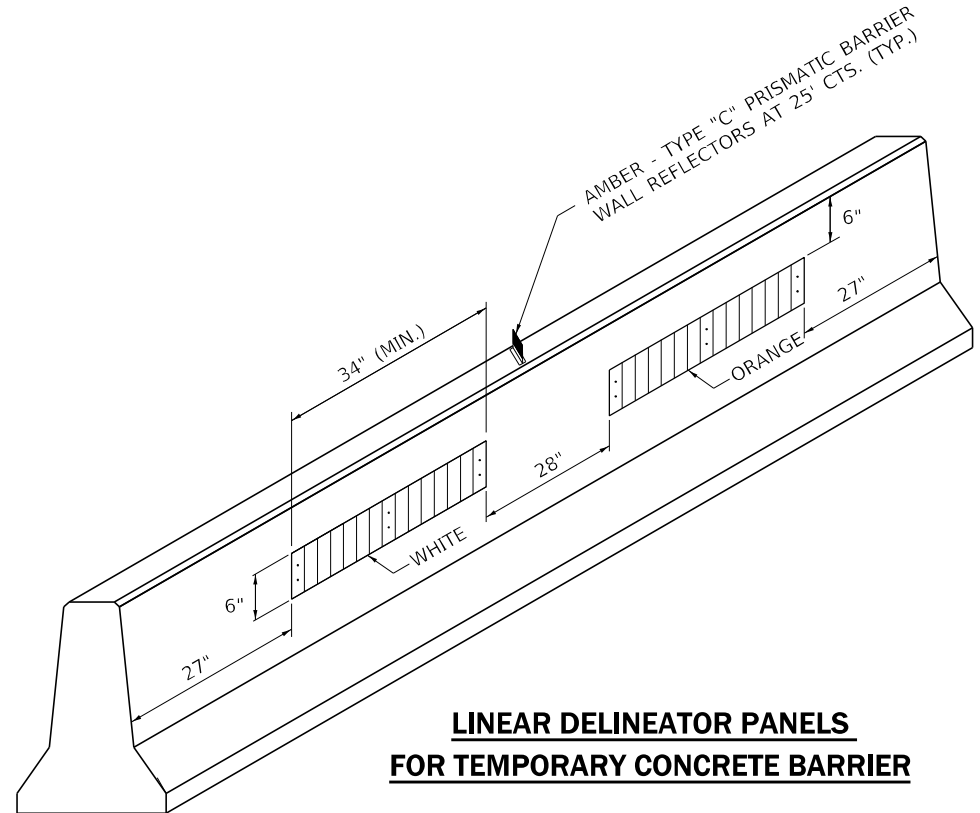
- ① TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ② TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ③ GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 704001 AND 782006.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6' FROM EDGE OF SHOULDER.
- ⑤ PAVEMENT MARKING REMOVAL



CROSS SECTION
LOOKING SOUTH

LEGEND

- WORK ZONE
- TRAFFIC CONTROL DRUM WITH STEADY BURNING LIGHT (TAPERS)
- TRAFFIC CONTROL DRUM (TANGENTS)
- BARRICADES, TYPE III WITH STEADY BURNING LIGHT
- SIGN
- IMPACT ATTENUATOR, TEMPORARY, (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE AND MICROWAVE DETECTOR
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE



LINEAR DELINEATOR PANELS
FOR TEMPORARY CONCRETE BARRIER

GENERAL NOTES

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

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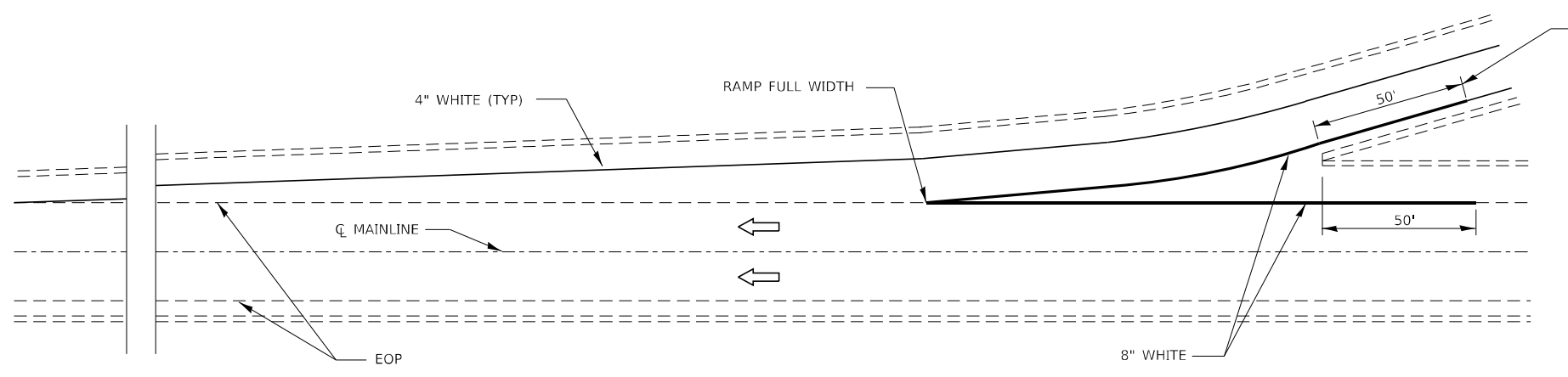
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
FOR LOCATION NO. 3 - STRUCTURE NO. 053-0168

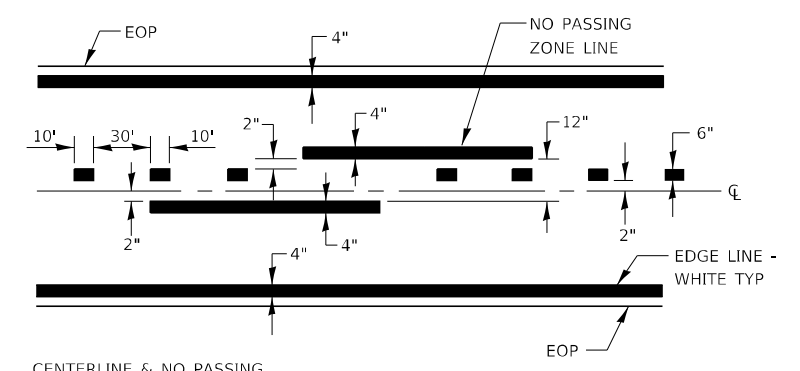
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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*FAI 55 (I-55), & FAP 326 (IL 47)				CONTRACT NO. 66M21
ILLINOIS FED. AID PROJECT				

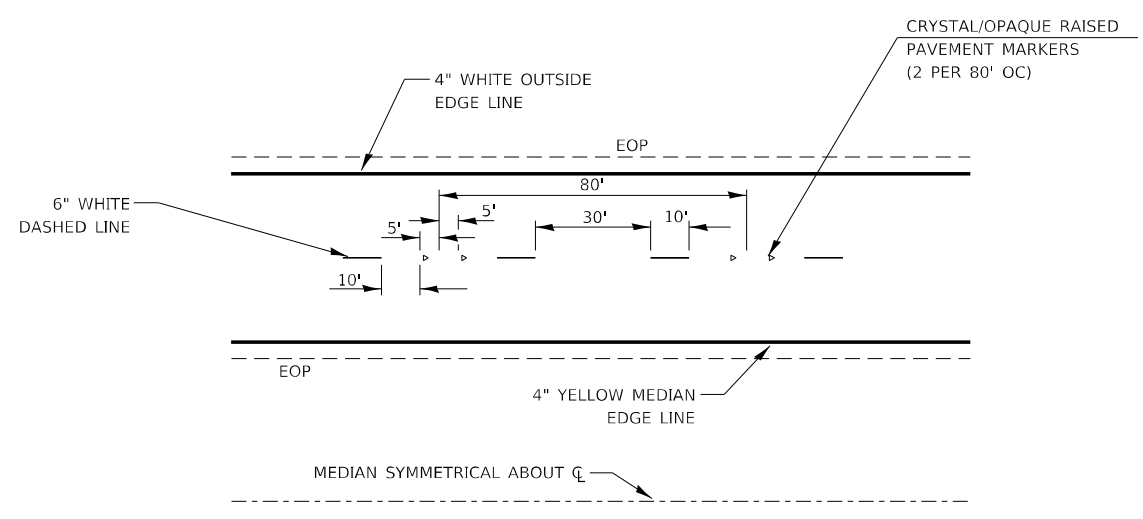
4" YELLOW ENDS



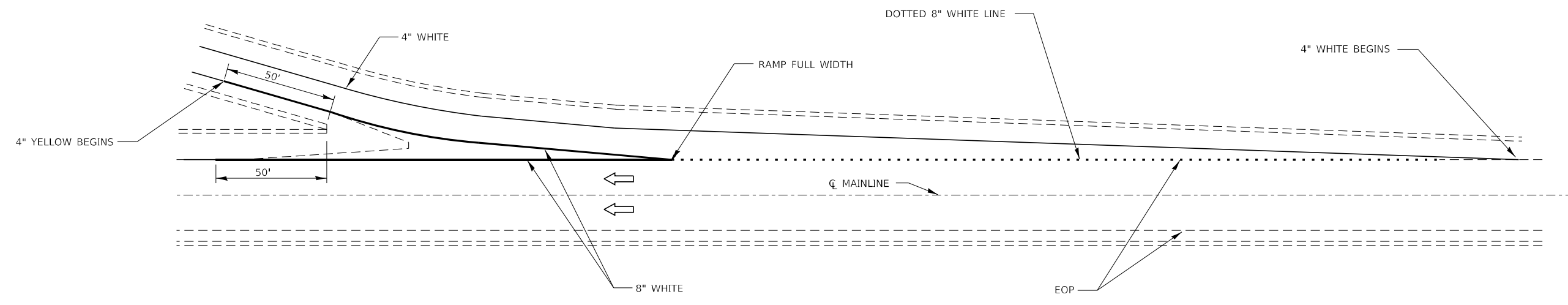
**TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS
INTERSTATES**



**PAVEMENT MARKING
2L, 2W ROADS**



**TYPICAL PAVEMENT MARKINGS
INTERSTATES**



**TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS
INTERSTATES**

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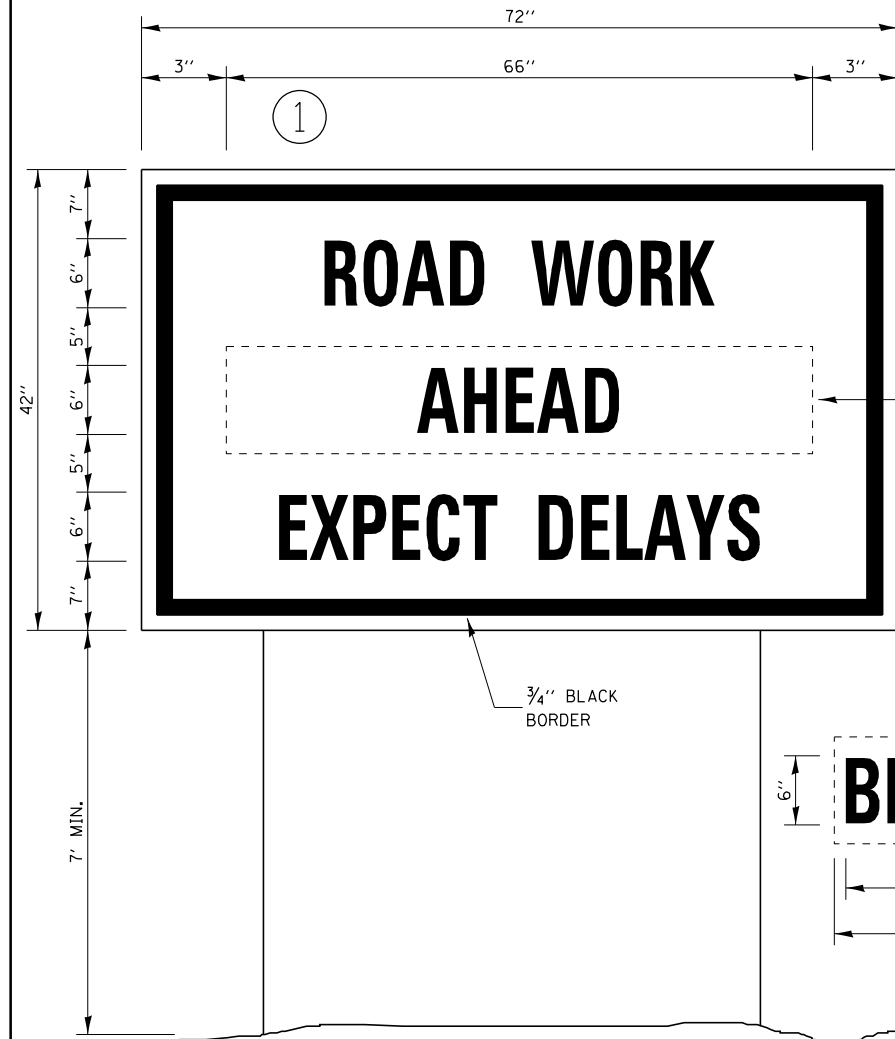
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PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

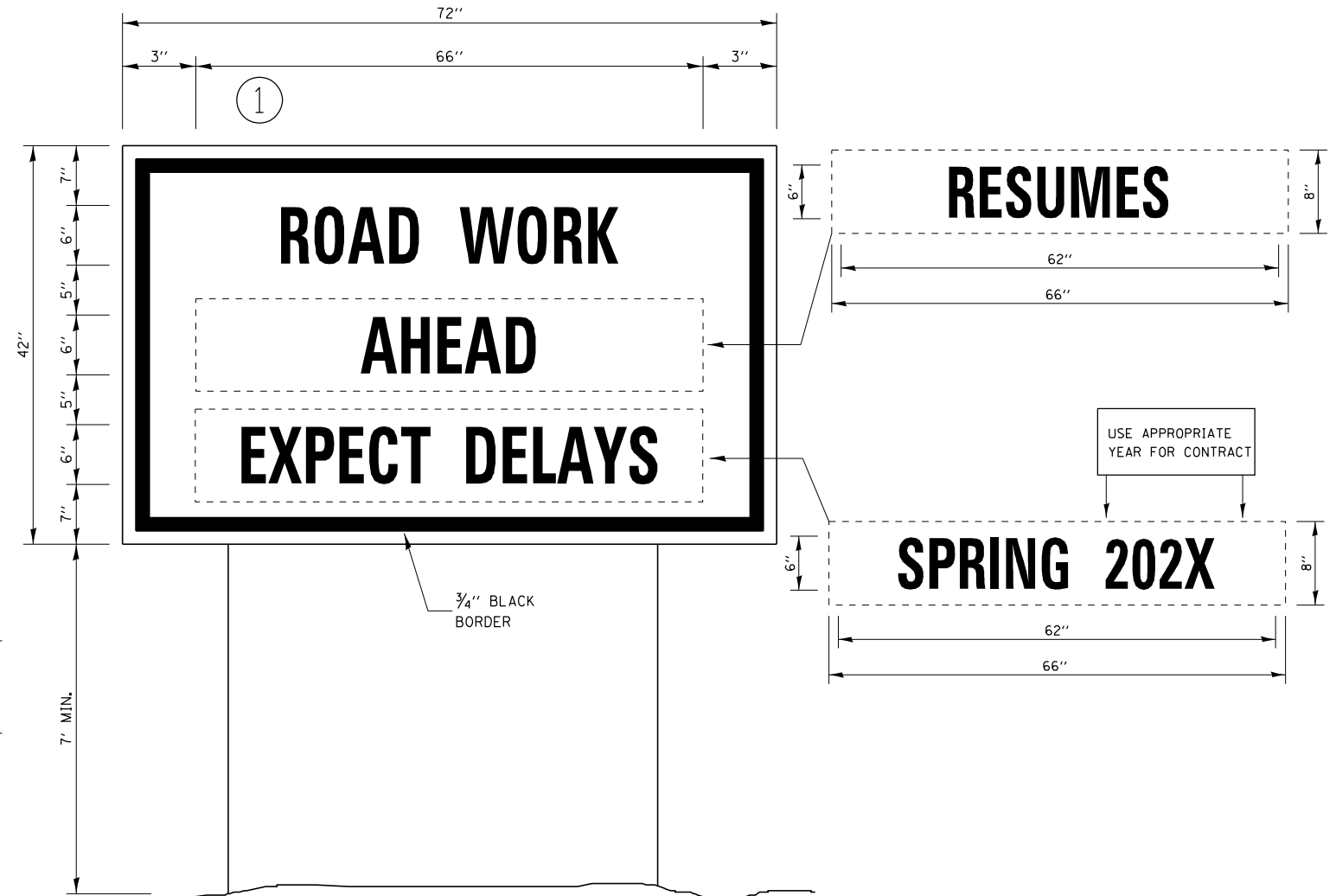
PAVEMENT MARKING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
53-6HB, 122BR, 124BR-1)BP		LIVINGSTON	28	16
*FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21	
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 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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USER NAME = woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - YP	REVISED -
PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INFORMATION SIGNING
FOR 2L, 2W HIGHWAYS**

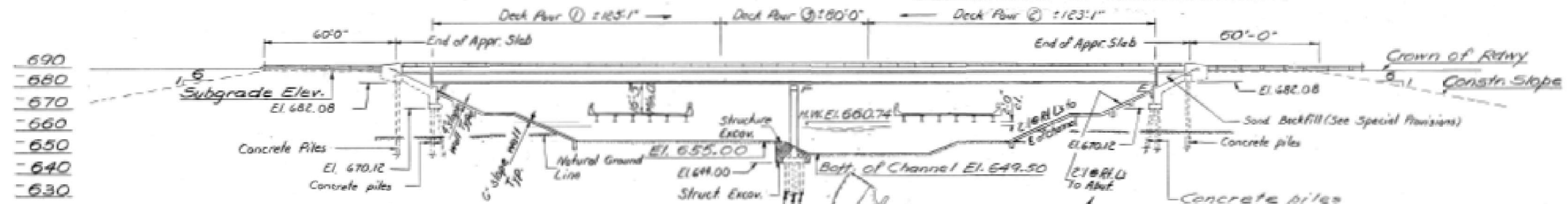
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
53-6HB, 122BR, 124BR-1)BP		LIVINGSTON	28	17
*FAI 55 (I-55), & FAP 326 (IL 47)				CONTRACT NO. 66M21
	ILLINOIS	FED. AID PROJECT		

B.M. #173- R.R. Spike in 4" power pole East of point No. 49 on TR-157A. Elev = 659.01 (350' RL Sta. 760+00 FAI.-55)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF SHEETS
FAI. 55	53-6HB	LIVINGSTON	52	27	13 SHEETS



WATERWAY INFORMATION
 Drainage Area 68.75 Sq. mi.
 Character: level, cultivated
 Required Opening (50 yr. Flood) 1500 Sq. Ft.
 Present Opening 708 Sq. Ft.
 Proposed Opening 1500 Sq. Ft.
 Ordinary Water Elev. 652.0
 Low Water Elev. 651.0
 High Water Elev. 660.74
 High Water Elev. 662.70 (Alltime)
 Q (50) = 4168 cfs

DESIGN STRESSES*
 $f_c = 1200$ psi (Deck Slab)
 $f_c = 1400$ psi (Curb, Pump, Walls, & Appr. Slab)
 $f_s = 20,000$ psi (Reinf.)
 $f_s = 20,000$ psi (A36 Struct. Steel)
 $f_s = 27,000$ psi (A388 Struct. Steel)
 $v_c = 75$ psi (Flgs)
 $n = 10$
 *For pier design stresses see sheet #11
 The design includes allowance of 25#/sq. ft. for wearing surfaces.

STATION 757+96.30
 BUILT BY
 STATE OF ILLINOIS
 FAI. RTE. 55 SEC. 53-6HB
 FA. PROJECT 155-5M2
 LOADING HS 15
 NAME PLATE
 See Std. E113

GENERAL NOTES
 All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 Fasteners shall be high strength bolts. Bolts 1/2"; open holes 15/16", unless otherwise noted.
 Calculated weight of Structural Steel = 438000 lbs.
 Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 Anchor bolts shall be set before bolting diaphragms over supports.
 Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.
 Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
 The concrete rail section above the mandatory construction joint at the top of the pier shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
 Protective Coat shall not be applied to surfaces to which Cool Tar Inhibitor or Protective Coat is applied.
 The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel. The interior surfaces of box girders shall be given two shop coats of paint & spot painted in the field after erection is completed.
 Concrete piles of Abutments and Approach bents shall be driven in holes precast through the embankment in accordance with Article 513.09(c) of the Standard Specifications.
 The contractor shall drive two concrete test piles in permanent locations one each of West & East Abutments as directed by the Engineer before ordering the remainder of piles.

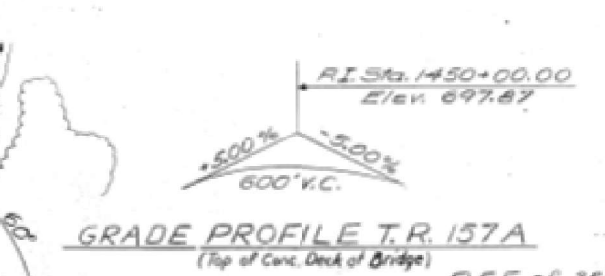
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Cool Tar Interlayer Protective Coat	Sq. Yds.	1076		1076
Sand Backfill	Cu Yds.		185	185
Bit. Conc. Surface Course, Class I	Tons	88		88
Structure Excavation	Cu Yds.	250		250
Protective Coat	Sq. Yds.	283		283
Class X Concrete	Cu Yds.	363.7	225.8	589.5
Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	1696		1696
Aluminum Railing	Lin. Ft.	720		720
Reinforcement Bars	Lbs.	79940	41690	121630
Concrete Piles	Lin. Ft.		3016	3016
Name Plates	Each	1		1
Slope Wall (2')	Sq. Yds.		479	479
Neoprene Expansion Joint (2 1/2")	Lin. Ft.	59		59
Test Piles, Concrete	Each		2	2
Slope Wall (4')	Sq. Yds.		319	319



PROPOSED PROFILE FAI. RTE. 55
 Prop. Grade @ Median edge of Pkts.
 STA. 755+00.00 Elev. 667.32
 STA. 755+00.00 Elev. 667.32
 -0.10% Stationing

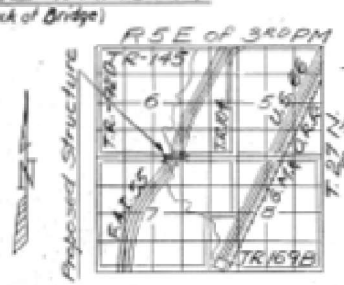
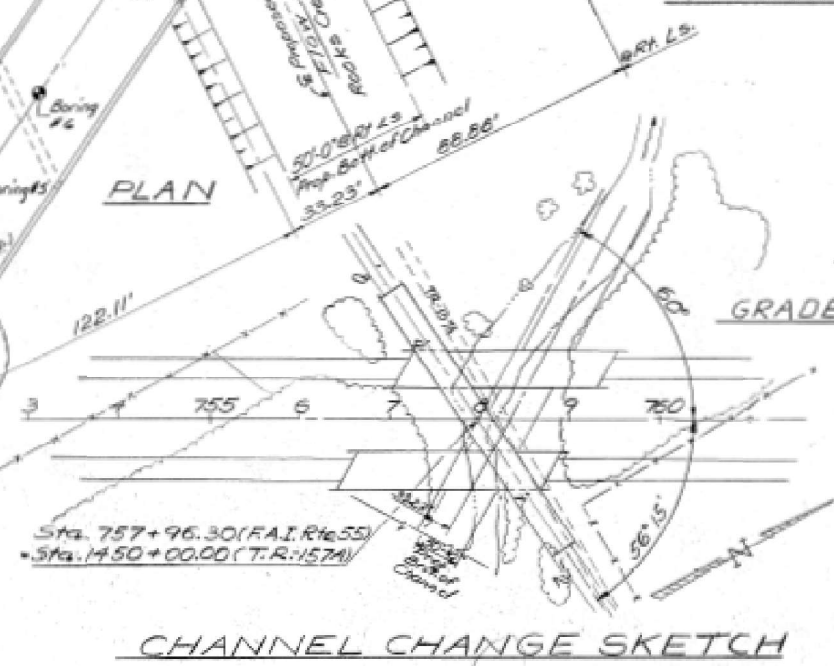
LOADING HS 15-44 (SEC. 53-6 HB)



DESIGNED Rao G.K.
 CHECKED A.Y. Haayyat
 S.L.
 DRAWN V.H.
 CHECKED S.Y.R.

EXAMINED
 PASSED
 APPROVED

Note: The channel excavation and removal of existing structure are billed with Section 53-6B.

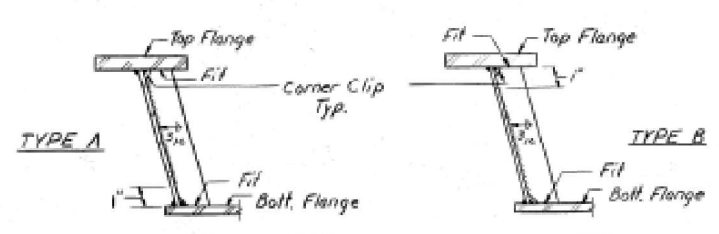
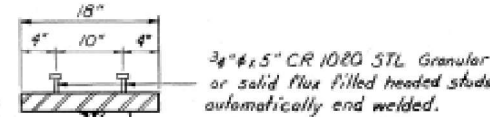
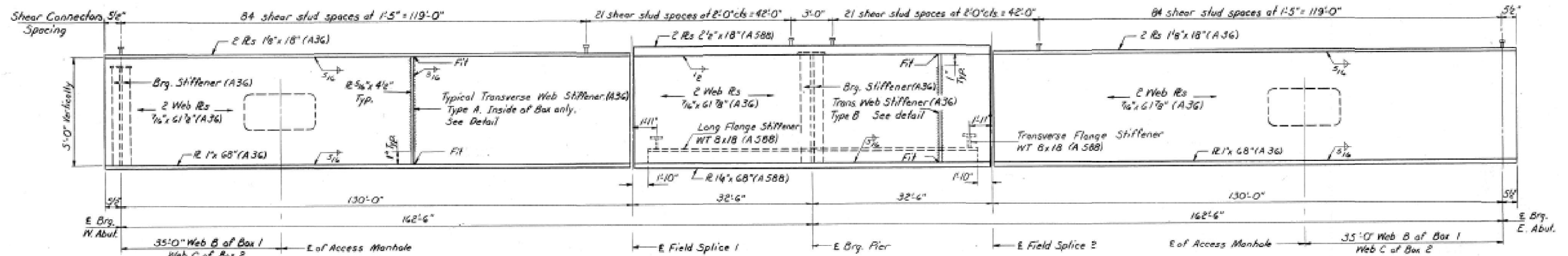
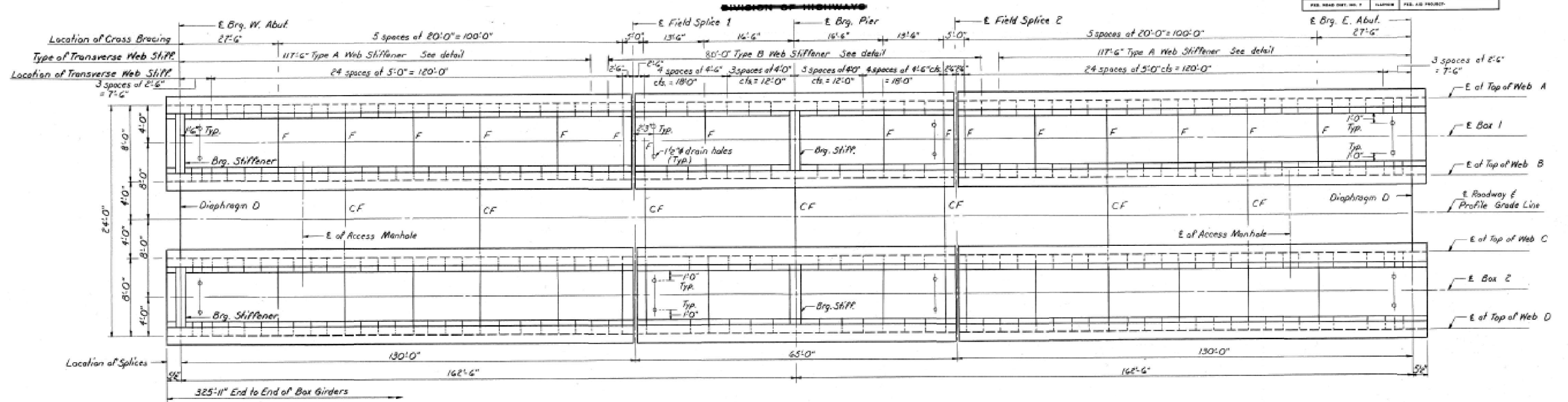


FOR INFORMATION "ONLY"

SECTION 53-6 HB
 GENERAL PLAN & ELEVATION
 PROJECT: I-55-5 (42)
 FAI. RTE. 55 OVER ROCKS CREEK
 RELOCATED T.R. 157A OVER FAI.
 RTE. 55 AND ROCKS CREEK
 SECTIONS 53-6B & 53-6HB
 LIVINGSTON CO.
 STA. 757+96.30 (FAI. RTE. 55)

MODEL: Default FILE: 3dmodel.ctb PROJECT: I-55-5 (42) SHEET: 27 OF 52

USER NAME	DESIGNED	REVISOR	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
woodshank1	RW		55	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	18
	DRAWN			FAI 55 (I-55), & FAP 326 (IL 47)			CONTRACT NO. 66M21
	CHECKED			ILLINOIS	FED. AID PROJECT		
	PLOT SCALE						
	PLOT DATE						



TOP OF WEB ELEVATIONS
(For Fabrication only)

Location	Box 1		Box 2	
	E Web A	E Web B	E Web C	E Web D
E Brq. of W. Abut.	687.25	687.25	687.25	687.25
E Field Splice 1	689.28	689.28	689.28	689.28
E Brq. at Pier	689.20	689.20	689.20	689.20
E Field Splice 2	689.28	689.28	689.28	689.28
E Brq. of E. Abut.	687.25	687.25	687.25	687.25

FOR INFORMATION "ONLY"

STRUCTURAL STEEL
 ILL. RT. 55 SEC 53-6 HB
 LIVINGSTON COUNTY
 STA. 757+96.30

DESIGNED	RAO G.K.
CHECKED	A.V. MAHAYAT
DRAWN	S.E. LINDSEY
CHECKED	S.Y.K.

EXAMINED: *[Signature]* 19/21
 PASSED: *[Signature]*
 APPROVED: *[Signature]*

USER NAME = woodshank1	DESIGNED - RW	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 12/7/2021	CHECKED - YP	REVISED -
	DATE - 8/19/2021	REVISED -

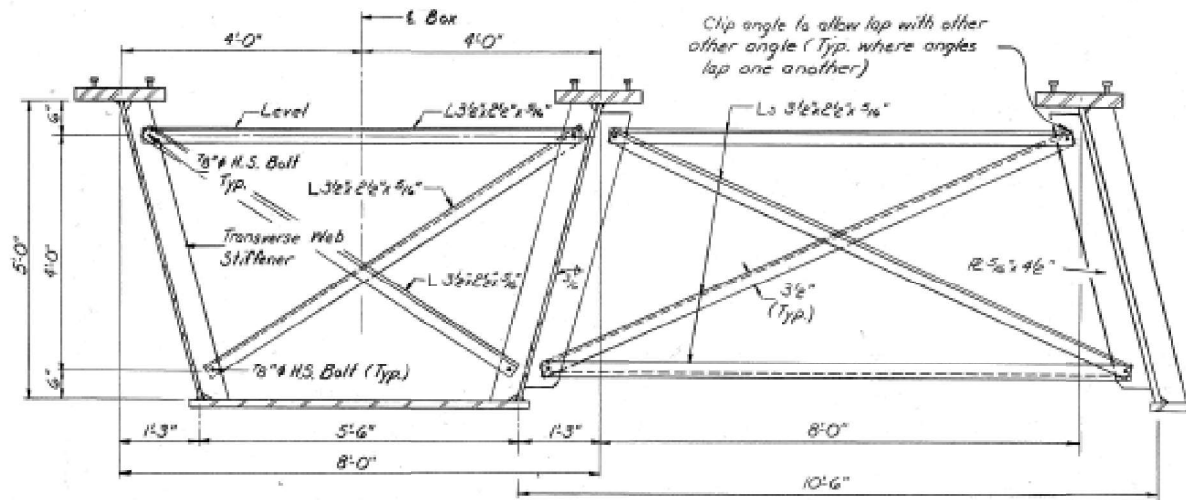
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR
 LOCATION NO. 1 STRUCTURE NO. 053-0123

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
53-6HB	122BR, 124BR-1)BP	LIVINGSTON	28	20
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS / FED. AID PROJECT				

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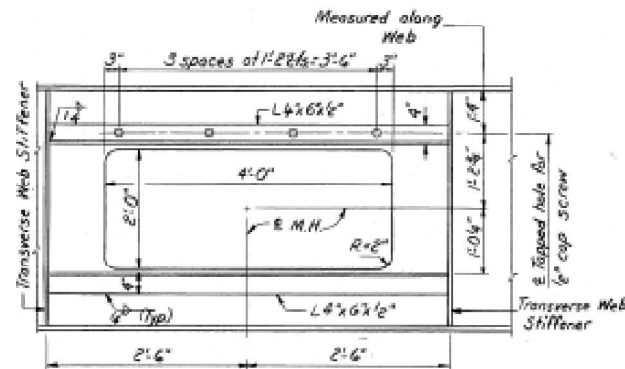


TYPICAL CROSS SECTION OF BOX GIRDER
(Showing Frame F)

Note: Frames F shall be installed in the shop & shall remain in place to stiffen the girders during erection, placement, and curing of the concrete deck, after which these frames shall be removed & disposed of.

CONSTRUCTION FRAME

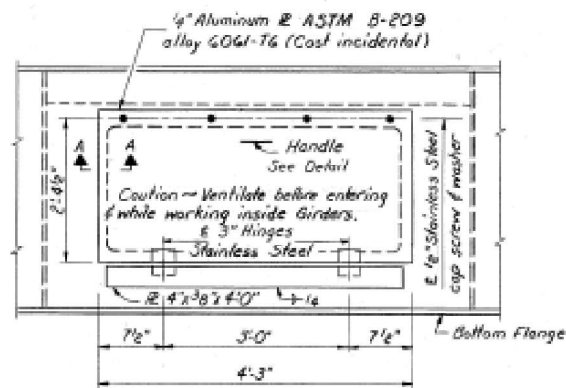
Note: Construction Frames CF shall be placed in the field & shall remain in place to stiffen the girders during erection, placement & curing of the concrete deck after which these frames along with the deck forms shall be removed.



INSIDE VIEW

DETAIL OF MANHOLE

	ABUT	PIER
R R	170.7	601.5
R L	59.9	129.6
IMP	10.4	22.5
R TOTAL	241.0	753.6

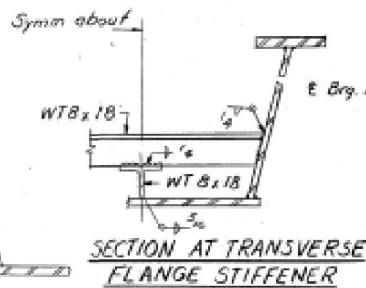


OUTSIDE VIEW

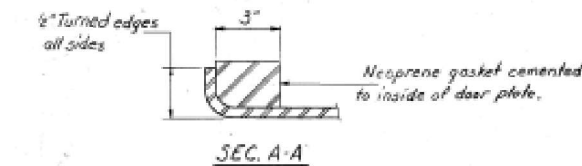
Warning Note shall be stenciled on inside surface of door in position to be upright when door is open, two inch high letters and approved paint shall be used.

	0.4 Span		Pier	
	Top of Steel	Bot of Steel	Top of Steel	Bot of Steel
I _s (in ⁴)	113038		186886	
I _c (in ⁴)	227121		205733	
S _s (in ⁴)	3117	4371	5813	5914
S _c (in ⁴)	12120	5235	6880	6078
R (k/ft)	2.150		2.150	
M R (k)	3547		8143	
F Trans (ksi)	1.8		0.8	
I _s E (ksi)	13.7	9.8	16.9	16.6
S E (k/ft)	0.751		0.751	
M S E (k)	1419		2403	
M L (k)	1861		2163	
M IMP (k)	324		377	
Total (k)	3604		4943	
I _s comp (ksi)	3.5	8.2	8.6	9.7
I _s TOTAL (ksi)	19.0	18.0	26.3	26.3
f allowable (ksi)	20.0	20.0	26.7	26.6
VR (k)	78.8		88.8	

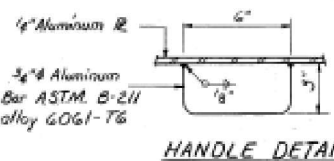
I_s & I_c are the moment of inertia and section modulus of the steel section.
I_s & S_c are the moment of inertia and section modulus of the composite section used in computing I_s.
VR is the maximum V + impact shear range in span.
F Trans is the transverse bending stress in top flange due to web inclination.



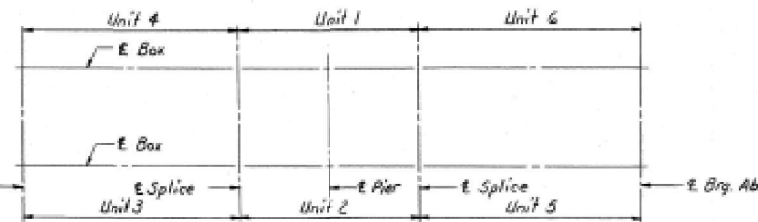
SECTION AT TRANSVERSE FLANGE STIFFENER



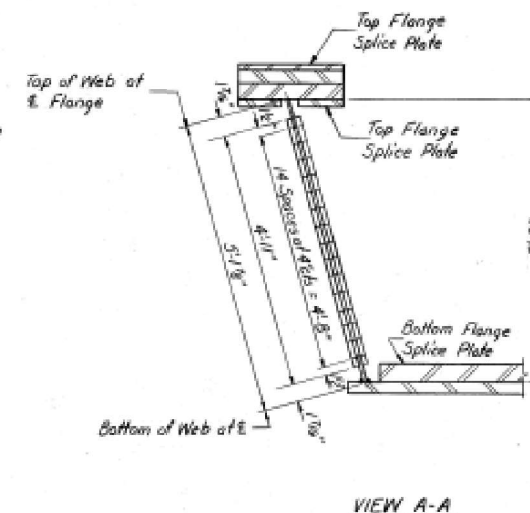
Note: The exterior surface of the aluminum access doors shall be cleaned and given a washcoat pretreatment in accordance with the Steel Structures Painting Council's Specifications SSPC-SP1 and SSPC-PT3 followed by the basic lead silico chromate painting specified for structural steel.



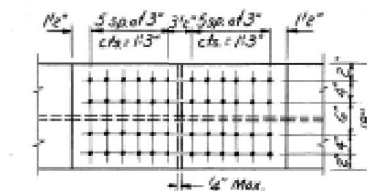
HANDLE DETAIL



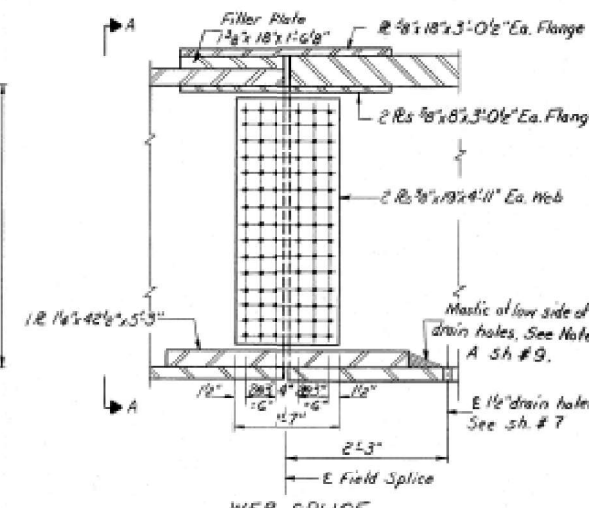
FIELD ERECTION SEQUENCE
The sequence of field erection of the Box Girders shall be unit 1; units 2 & 3; unit 4; unit 5, unit 6.



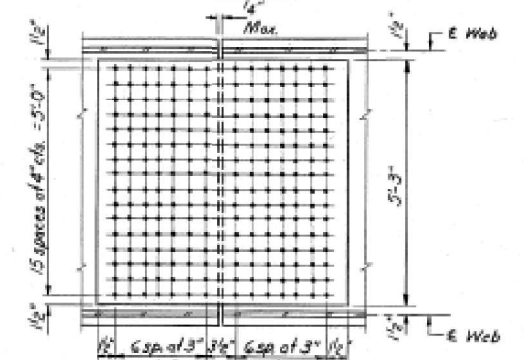
VIEW A-A



TOP FLANGE SPLICE

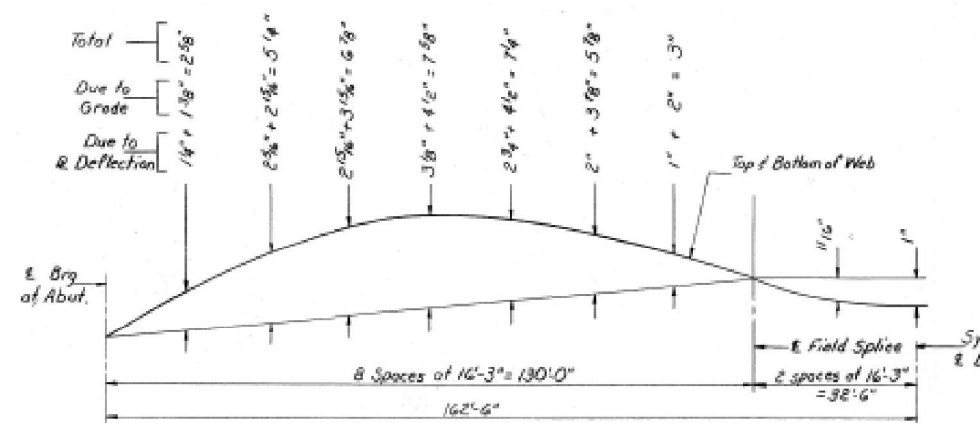


WEB SPLICE



BOTTOM FLANGE SPLICE

DETAILS OF FIELD SPLICE
(All Fasteners shall be 7/8" H.S. Bolts)



CAMBER DIAGRAM

*For Top of Web Elevations of Splices & Bearings see table on sh. # 7.

DESIGNED	PAO G.K.
CHECKED	S.Y. Khayyat
DRAWN	S.E. Lindsey
CHECKED	S.Y. K.

EXAMINED	Richard H. Hatterman
PASSED	Richard H. Hatterman
APPROVED	Richard H. Hatterman

FOR INFORMATION "ONLY"

STRUCTURAL STEEL DETAILS
FAI RT.55 SEC. 53-6HB
LIVINGSTON COUNTY
STA 757+96.30

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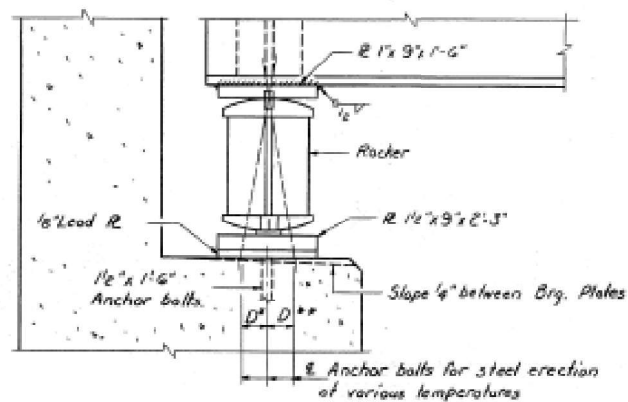
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PLOT SCALE	= 100,0000' / in.	DRAWN	- RW	REVISED	-
PLOT DATE	= 12/7/2021	CHECKED	- YP	REVISED	-
		DATE	- 8/19/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

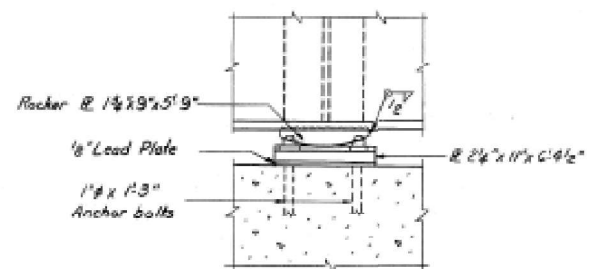
EXISTING STRUCTURE PLANS FOR
LOCATION NO. 1 STRUCTURE NO. 053-0123

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	21	
*FAI 55 (I-55), & FAP 326 (IL 47)	CONTRACT NO. 66M21			
ILLINOIS		FED. AID PROJECT		



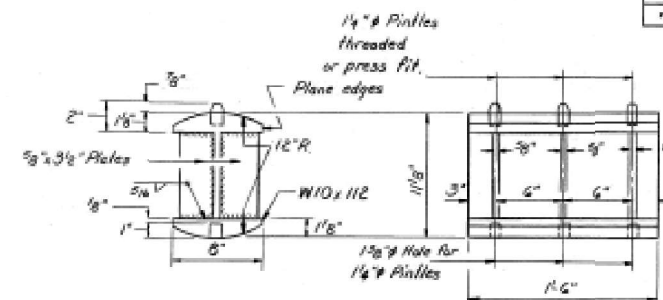
ELEVATION



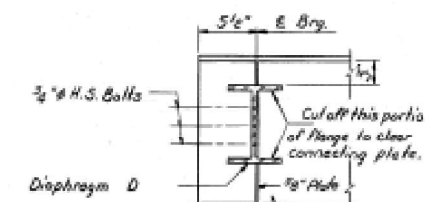
ELEVATION



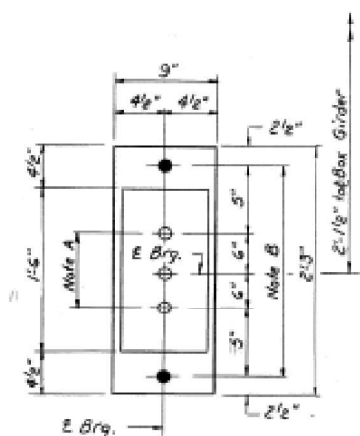
PINTLE



ROCKER



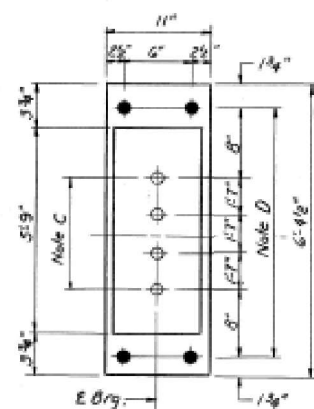
SECTION D-D



PLAN AT ABUTMENTS

Note A
1 3/8" Holes - 1" deep in top R for pintles. Thread or press fit pintles into bottom R.

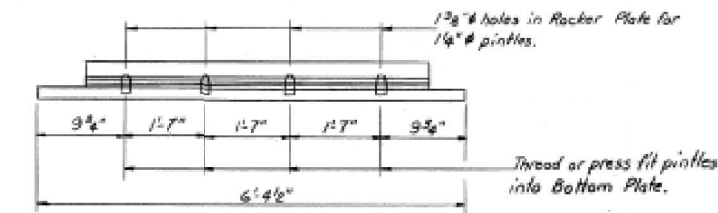
Note B
2" Holes for 1 1/2" anchor bolts 5/16" x 3/4" x 3/4" R. washers under nut.



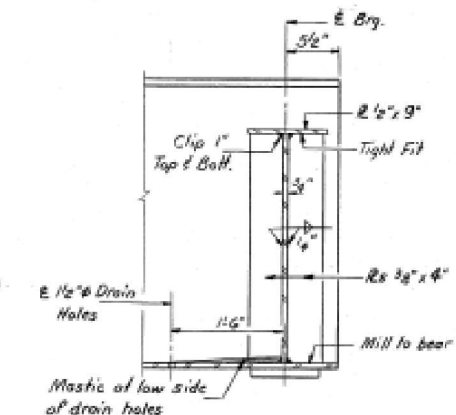
PLAN AT PIER

Note C
1 3/8" Holes - 1" deep in rocker plate for 1 1/2" pintles. Thread or press fit pintles into bottom plate.

Note D
1" Holes for 1" anchor bolts 2" x 2" x 5/8" R. washers under nut.

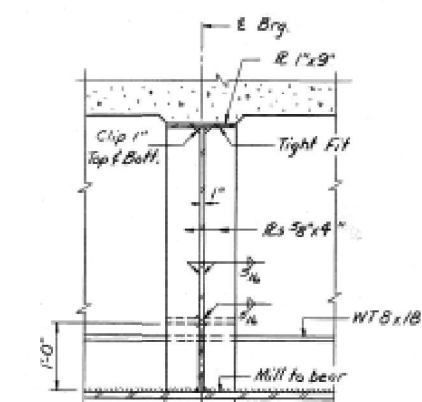


ROCKER PLATE



SECTION B-B

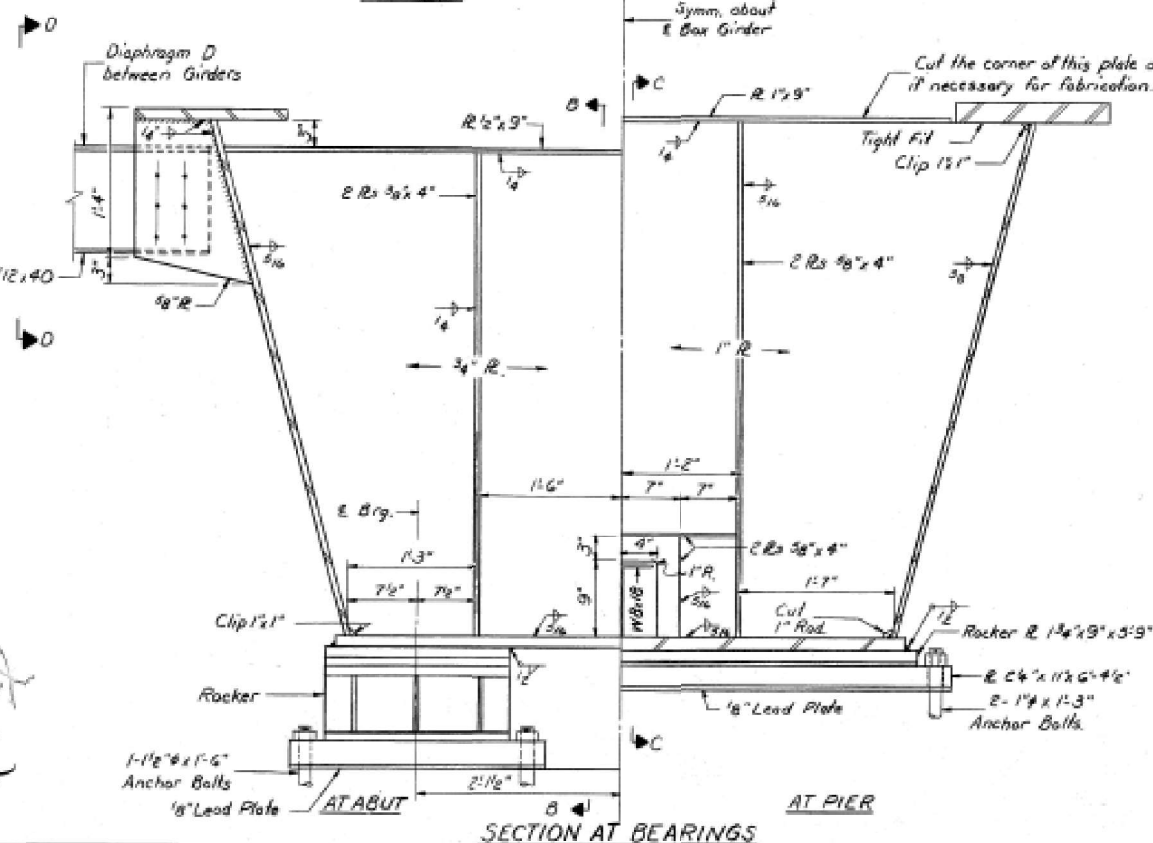
Note A: The mastic shall be placed in the field after erection & painting. Cost incidental



SECTION C-C

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
 - D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b) Before beams are erected drill 3" holes. After beams have been erected and dimensions D* or D** determined grout anchor bolts in place. All fixed anchor bolts shall be built into the masonry.



SECTION AT BEARINGS

DESIGNED	RAO G.K.
CHECKED	A.Y. HANAYAT
DRAWN	J.E. LINDSEY
CHECKED	S.V.K.

EXAMINED	[Signature]
PASSED	[Signature]
APPROVED	[Signature]

FOR INFORMATION "ONLY"

BEARING ASSEMBLY DETAILS
FAI, RT. 55 SEC. 53-6 HB
LIVINGSTON COUNTY
STA. 757+96.30

ILL. C & G.S. MARKER K-21 RESET 1984
 N.E. CORNER E. 118 BRIDGE APPROX.
 200' WEST OF IL.-47 EL. 677.95

PROJECT LOCATION
 S.N. 053-0047

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP-326	122,123BR	LIVINGSTON	54	23
FED. ROAD DIST. NO.		ILLINOIS PROJECT		

BR. SHT. 1 OF 16
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUR. STR.	SUBSTR.	TOTAL
REMOVAL OF EXIST. SUPER STR.	EA	1	—	1
STRUCTURE BEAVING	CU. YD.	—	211	211
FLOOR DRAINS	EACH	12	—	12
CLASS "X" CONC. SUPERST.	CU. YD.	126	—	126
PROTECTIVE COAT	SQ. YD.	525	—	525
CLASS "X" CONCRETE	CU. YD.	—	920	920
REINFORCEMENT BARS EPON COATED	LBS.	30,630	8,910	39,540
NAME PLATES	EACH	1	—	1
FURNISHING ERECTING STRUCT. STEEL (P.E. STRUCT. STEEL)	L.S.	1	—	1
STUD SHEAR CONNECTORS	EACH	2232	—	2232
STONE RIPRAP CLASS A-4	SQ. YD.	—	251	251
FILTER FABRIC FOR USE W/RIPRAP	SQ. YD.	—	251	251
BRIDGE DECK GROOVING	SQ. YD.	427	—	427
CONCRETE REMOVAL	CU. YD.	—	31.0	31.0
ELAST. BEARING ASSY. T1	EACH	12	—	12
SLOPE WALL REMOVAL	SQ. YD.	—	234	234
SLOPE WALL REM. E.PON.	SQ. YD.	—	225	225
TEMP. SHEET PILING	SQ. FT.	—	644	644
NEOPRENE EXP. JOINT 2"	LIN. FT.	100	—	100
BRIDGE SEAT SEALER	L.S.	—	1	1
FURNISHING CONC. PILES	LIN. FT.	—	594	594
DRIVING CONCRETE PILES	LIN. FT.	—	594	594
TEST PILE CONCRETE	EACH	—	2	2

* INCLUDES DECK SURFACE
 ** SEE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

DESIGN LOADINGS: HS20-44, FUTURE WEARING SURFACE 25PSF.

DESIGN SPECIFICATIONS: AASHTO 1999 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND 1998 INTERIM SPECIFICATIONS.
 AASHTO SEISMIC GUIDE SPECIFICATIONS OF HIGHWAY BRIDGES 1993 WITH 05, 03 INTERMS.

DESIGN STRESSES:
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

REINFORCING STEEL: fy = 60,000 PSI.
 CONCRETE: f'c = 3,500 PSI.
 STRUCTURAL STEEL: fy = 50,000 PSI (A36)
 OR 50

(Signature)
 Licensed Professional Engineer

15. THE ZINC-SULFATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED. THE COLOR OF THE VINYL FINISH COAT SHALL BE PMS62 NO. 7.56 4/8 (INTERSTATE GREEN).
16. ALL TOP SURFACES OF THE ABUTMENTS SHALL RECEIVE BRIDGE SEAT SEALER TREATMENT. ESTIMATED QUANTITY = 503 SQ. FT.
17. SLOPEWALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC #16" - W4.0 X 4.0 W/GRID 58 INCH PER 100 SQ. FT.
14. FOR CANTILEVER FORKING BRACKETS SEE SPECIAL PROVISIONS.
15. THE CONTRACTOR SHALL DRIVE TWO CONCRETE PILES IN A PERMANENT LOCATION, ONE AT THE N. ABUT., AND ONE AT THE S. ABUT. AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

FOR INFORMATION "ONLY"

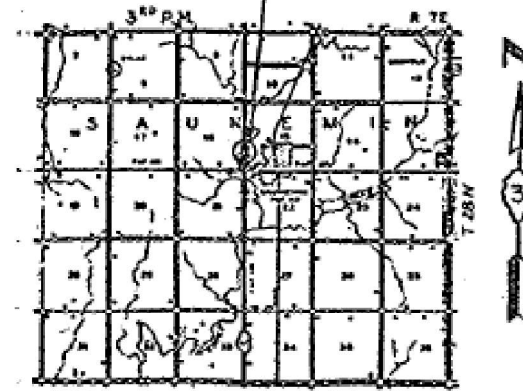
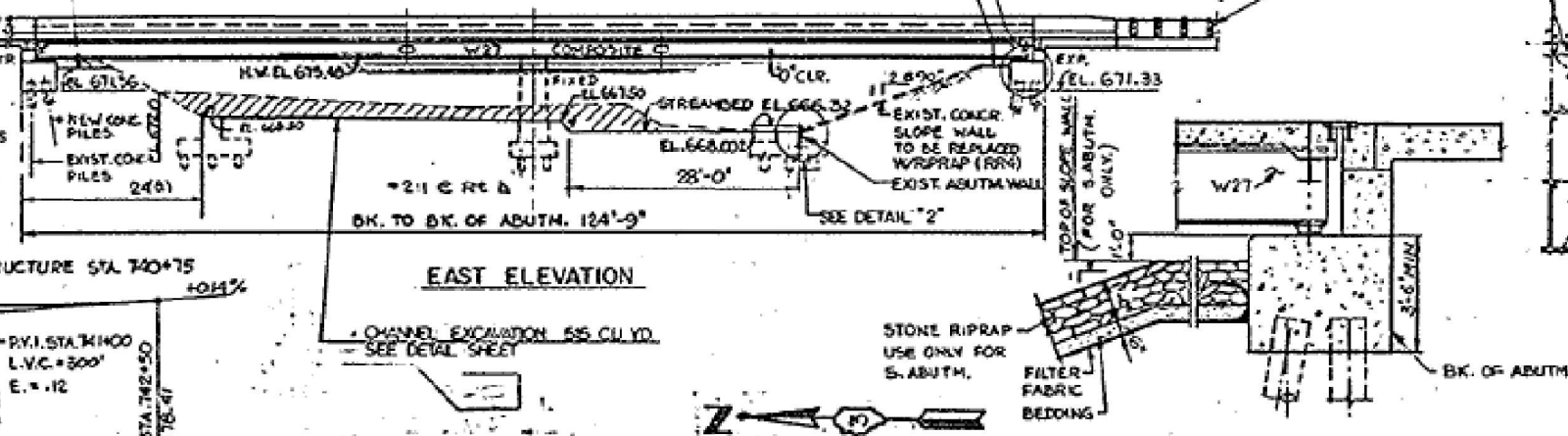
REVISED		ILLINOIS DEPARTMENT OF TRANSPORTATION	
BY	DATE		
		GENERAL PLAN ILLINOIS ROUTE 47 FAP-326 SECTION 122 BR STA. 740+75 LIVINGSTON COUNTY S.N. 053-0047	
		SCALE: NONE	DATE:
		DRAWN BY	LOUIS BERGER & ASSOCIATES, INC. CHICAGO, ILL.
		CHECKED BY	

EXISTING STRUCTURE:
 S.N. 053-0047; REBUILT IN 1957 AS S.B.L. RT. 47 SEC. 122-BY. THE SUPERSTRUCTURE IS A TWO SPANS PRECAST PRESTRESSED CONCR. DECK BEAMS ON R.C. ABUTMENTS AND PIER. THE BK. TO BK. OF ABUTMENT IS 124'-9" AND CUT TO OUT OF DECK IS 36'-4". THE CONTRACTOR SHALL REMOVE EXIST. DECK BEAMS AND ABUTMENTS. REPLACE IT WITH A NEW 7" R.C. SLAB AND STEEL BEAMS ON NEW ABUTMENTS AND EXISTING PIER. THE TRAFFIC SHALL BE MAINTAINED USING STAGE CONSTRUCTION.

REMOVE AND REPLACE 2'-0" WIDTH OF EXISTING 6" SLOPEWALL TO FACILITATE CONSTRUCTION OF ABUTMENT. EXISTING WIREMESH SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED IN NEW CONSTRUCTION. COST MODIFIED.

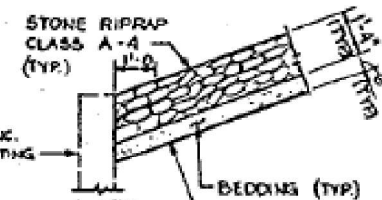
EXIST. TOP OF SLOPE WALL EL. 678.42(2)

TRAFFIC BARRIER TERMINAL TYPE G STD. 2341-2 (TYP.)

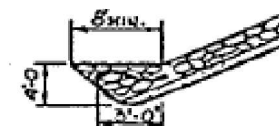


LOCATION PLAN

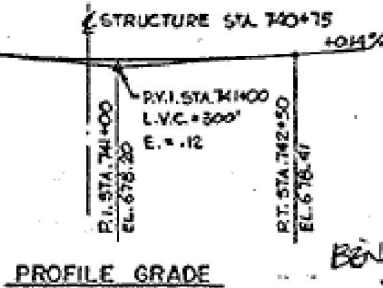
DETAIL "1"



DETAIL "2"

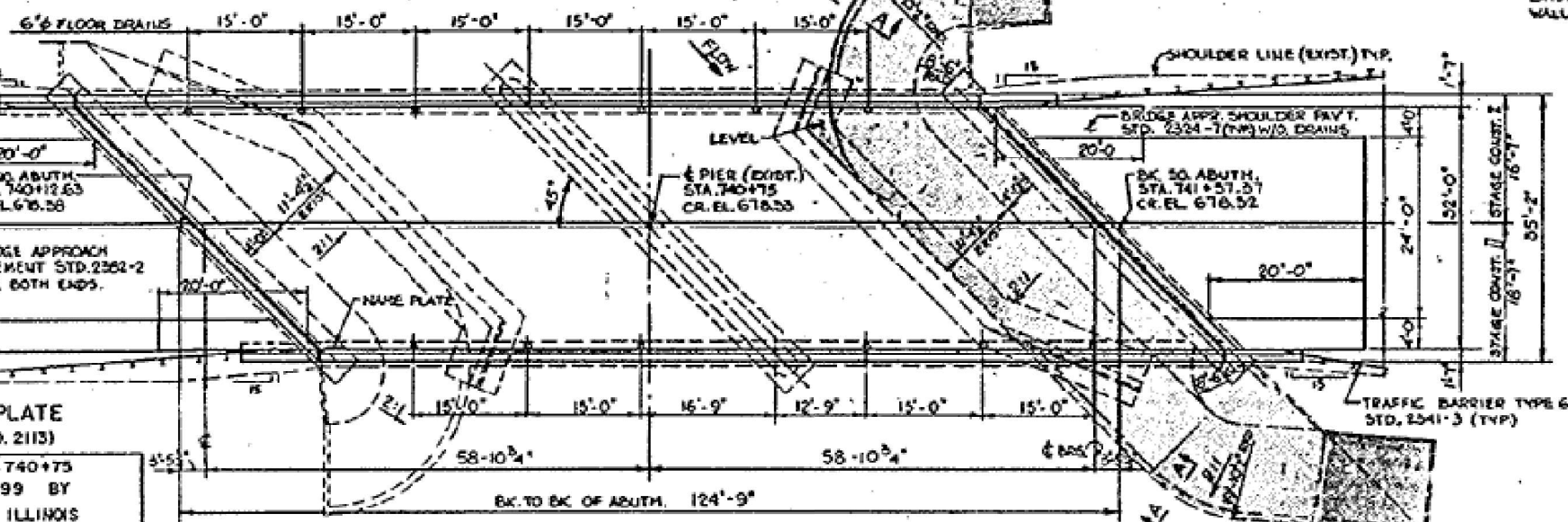


SECTION A-A



PROFILE GRADE

BENCH MARK ON TOP OF SOUTHWEST WING EL. 680.98



PLAN

NOTES:

1. FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8" & OPEN HOLES 15/16". UNLESS OTHERWISE NOTED.
2. CALCULATED WEIGHT OF STRUCTURAL STEEL 77,700 LBS (M223 OR 50) 11,339 LBS (M183)
3. FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
4. ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.
5. THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE WIDE FLANGE BEAMS AND ALL SFLICE PLATE MATERIAL.
6. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53 GRADE 60.
7. LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARRIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.
8. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO MINOR CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND
9. BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHAVING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.
10. THE CONCRETE, FOR BRIDGE FLOORS FINISHED IN ACCORDANCE WITH ARTICLE 503.15 OF THE STANDARD SPECIFICATIONS, SHALL BE PLACED AND COMPACTED PARALLEL TO THE SKEW IN UNIFORM INCREMENTS ALONG THE CENTERLINE OF BRIDGE. THE FINISHING MACHINE, WHEN REQUIRED, SHALL BE SET PARALLEL TO THE SKEW FOR STRIKING OFF AND SCREEDING THE CONCRETE.
11. CONCRETE CHAMBERS: ALL EXPOSED CONCRETE CORNERS SHALL HAVE 3/4 INCH CHAMBERS UNLESS OTHERWISE SHOWN IN THE PLANS.
12. THE STRUCTURAL STEEL BEARING PLATES OF THE ELASTOMER BEARING ASSEMBLY SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M223 GRADE 50.

NAME PLATE (SEE STD. 2113)
 STATION 740+75
 BUILT 199 BY
 STATE OF ILLINOIS
 FAP ROUTE-326 SEC. 122 BR
 FA PROJ. KHF-326(2)
 LOADING HS-20
 S.N. 053-0047

WATERWAY INFORMATION

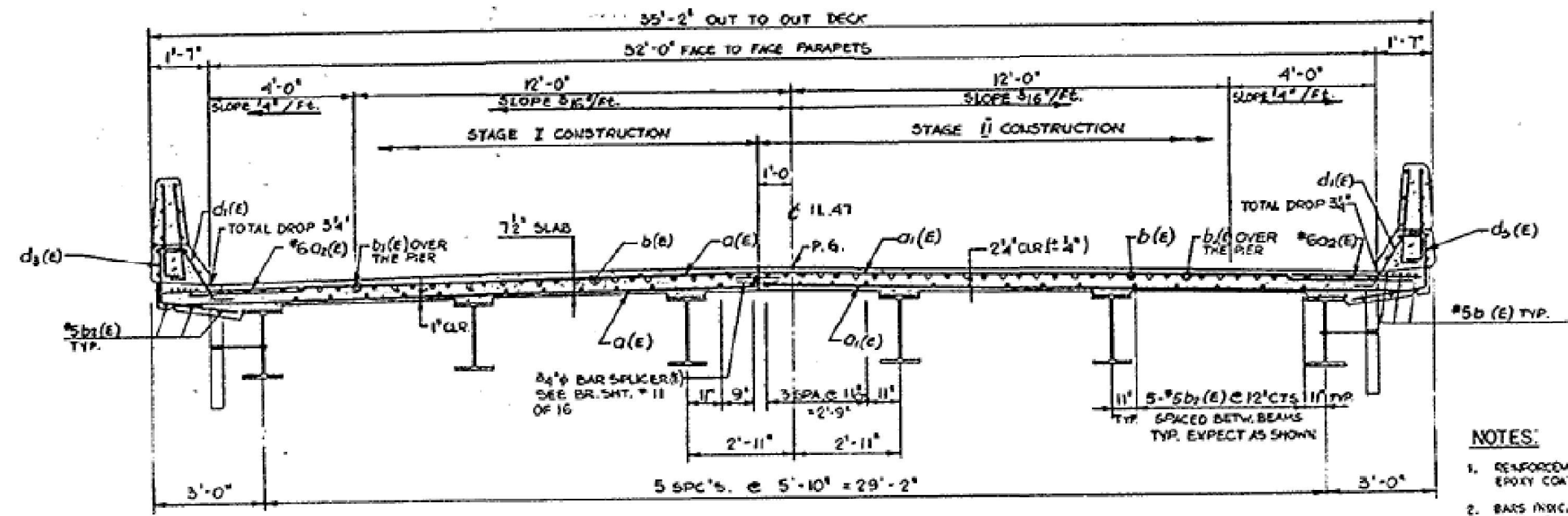
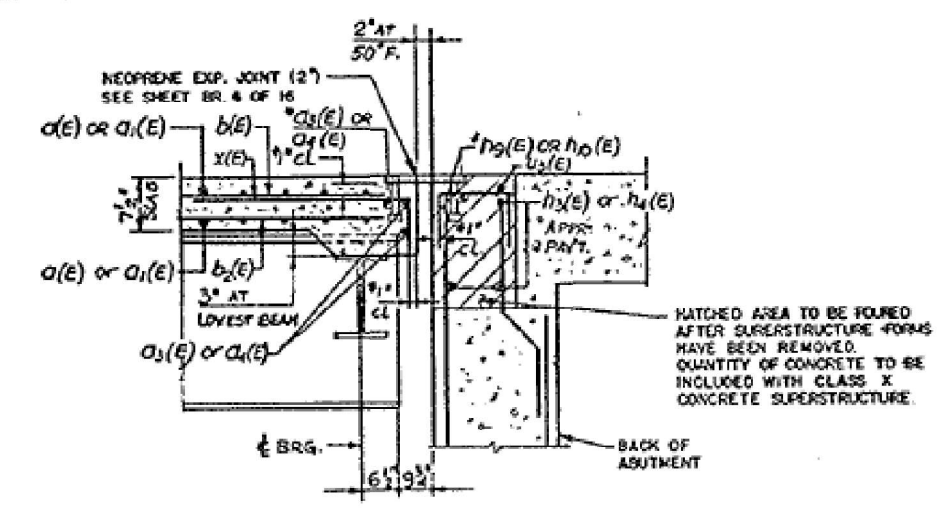
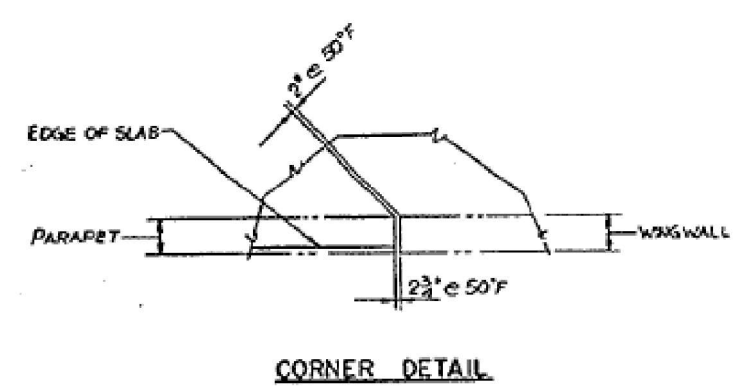
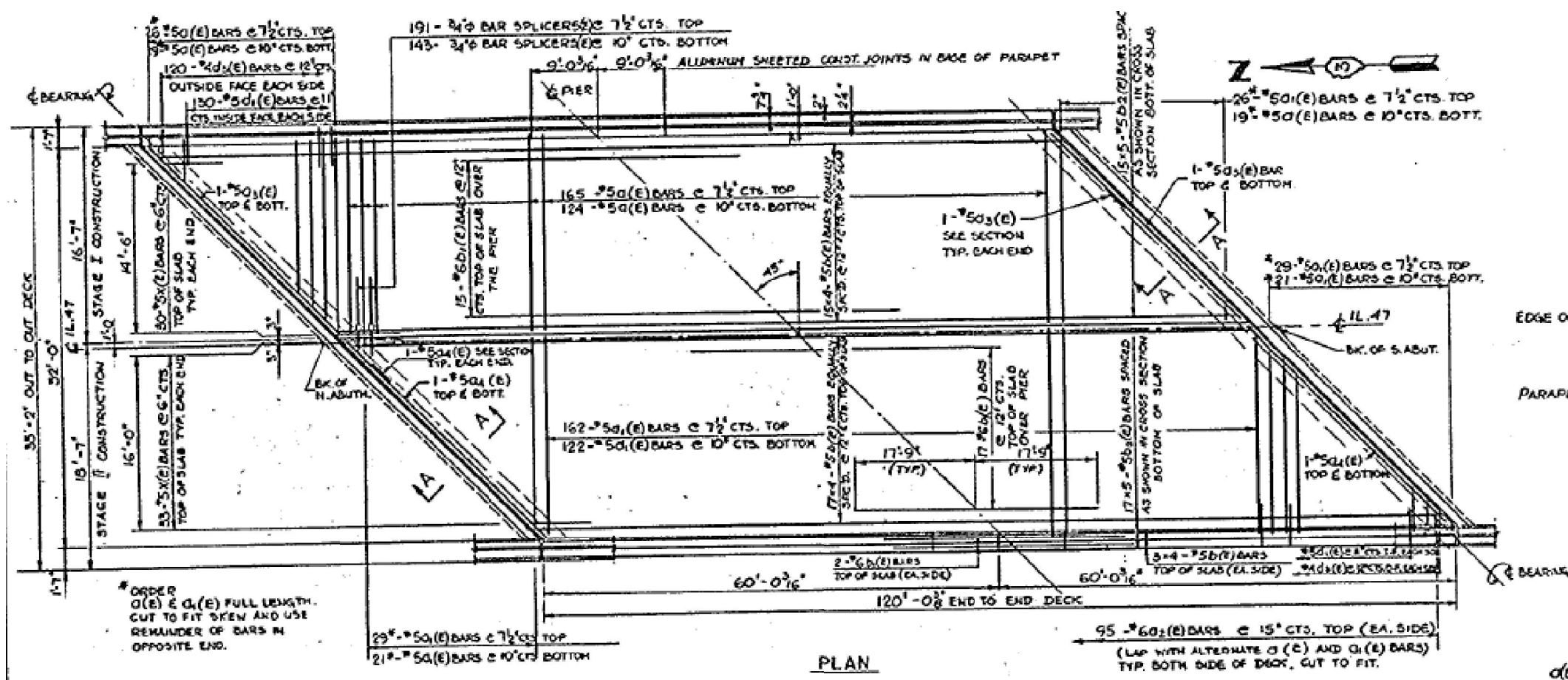
DRAINAGE AREA = 9.45 MI² LOW GRADE ELEV. = 677.44 @ STA. 760+00

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		NAT. H.W.L.	HEAD - Ft.		EXIST. HEADWATER EL.	PROP. HEADWATER EL.
			EXIST.	PROP.		EXIST.	PROP.		
DESIGN	50	1,537	395	488	675.48	0.38	0.32	675.96	675.80
BASE	100	1,745	395	488	675.76	0.60	0.39	676.36	676.15
OVERTOPPING	—	—	—	—	—	—	—	—	—
MAX. CALC.	500	2,231	395	488	676.36	0.90	0.64	677.26	676.97

LEGEND:
 --- INDICATES EXISTING
 --- INDICATES NEW
 Hatched area indicates channel excavation see roadway plans.
 Shaded area indicates removal of existing structure.

USER NAME = woodshank	DESIGNED = RW	REVISED =
	DRAWN = RW	REVISED =
PLOT SCALE = 100,000' / 1" IN.	CHECKED = YP	REVISED =
PLOT DATE = 12/7/2021	DATE = 8/19/2021	REVISED =

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	(53-6NB, 122BR, 124BR-1)BP	LIVINGSTON	28	23
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				



CROSS SECTION
(LOOKING SOUTH)
NEAR MIDSPAN

MIN. BAR LAPS
#5 BARS + 2'-2"

NOTES:

- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- BARS INDICATED THUS 24 Y 3 ETC., INDICATES 24 LINES OF BARS WITH 3 LENGTHS PER LINE.
- SEE BR. SHT. # 6 OF 16 FOR PARAPET REINFORCEMENT.
- BAR SPLICES SHALL BE TIED WITH DOUBLE THE NUMBER OF TIES NORMALLY USED.
- SEE BR. SHT. # 6 OF 16 FOR DETAILS AND BILL OF MATERIALS.
- SEE BR. SHT. # 1 OF 16 FOR FLOOR DRAN SPACING.

FOR INFORMATION "ONLY"

REVISED		ILLINOIS DEPARTMENT OF TRANSPORTATION	
BY	DATE		
		DECK REINFORCEMENT PLAN ILLINOIS ROUTE 47 FAP-326 SECTION 122 BR STA. 740+75 LIVINGSTON COUNTY S.N. 053-0047	
		SCALE: NONE	DATE:
		LOUIS BERGER & ASSOCIATES, INC. CHICAGO, IL	

USER NAME = woodshankl	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,000' / 1in.	CHECKED - YP	REVISED -
PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR
LOCATION NO. 2 STRUCTURE NO. 053-0047

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	24
	*FAI 55 (I-55), & FAP 326 (IL 47)	CONTRACT NO. 66M21		
		ILLINOIS	FED. AID PROJECT	

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ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAP-326	122 BR	LIVINGSTON	50	29
FED ROAD DIST NO 3		ALNOS	PROJECT	

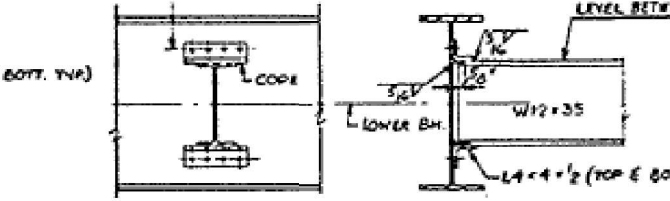
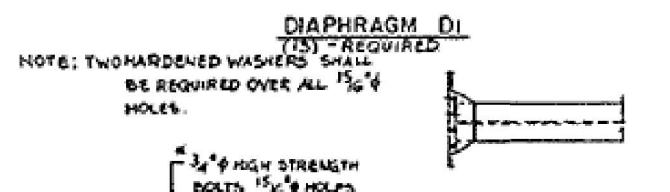
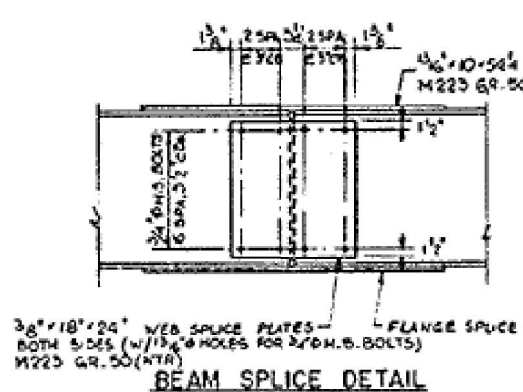
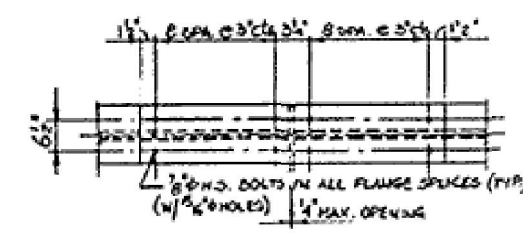
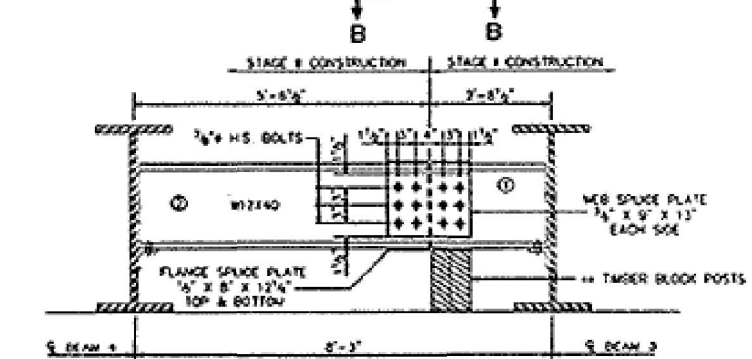
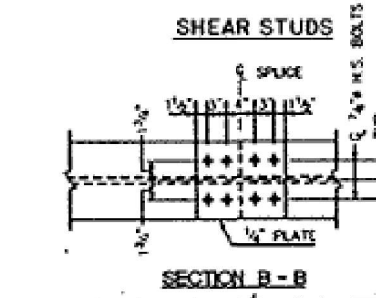
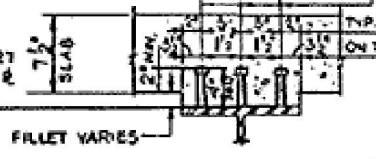
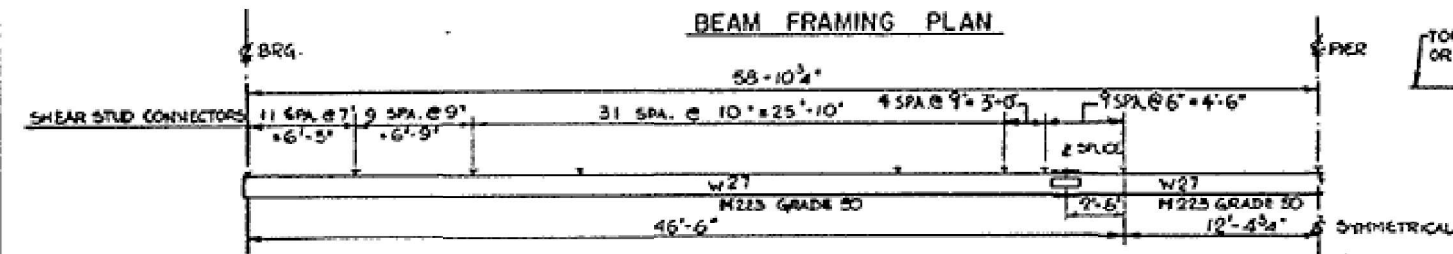
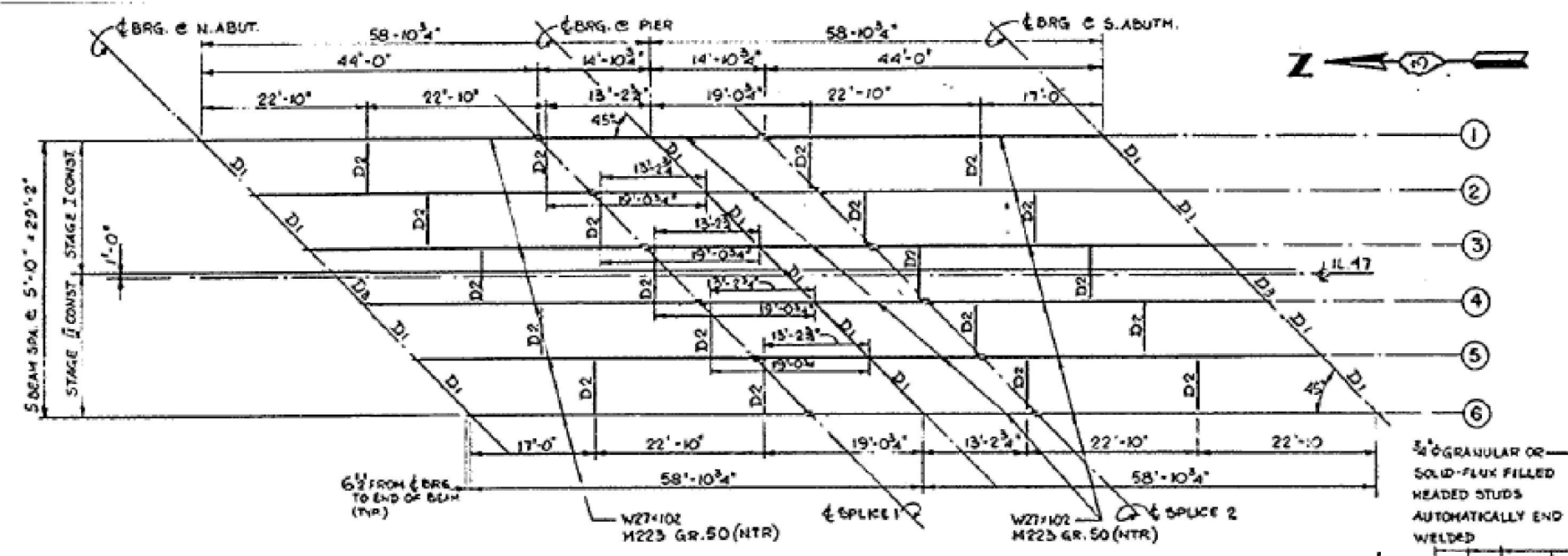
BR. SHT. 7 OF 16

BILL OF MATERIAL		
ITEM	UNIT	TOTAL
STUD SHEAR CONNECTORS	EACH	2232
FURNISHING & BARRING STRUCT. STEEL	L.S.	1

TOP OF BEAM ELEVATION					
BEAM	BRGS. N. ABUT.	SPLICE 1	PIER	SPLICE 2	BRGS. S. ABUT.
1	677.482	677.435	677.425	677.417	677.407
2	677.580	677.535	677.526	677.518	677.511
3	677.661	677.622	677.613	677.606	677.604
4	677.656	677.619	677.614	677.606	677.604
5	677.558	677.524	677.520	677.513	677.510
6	677.448	677.417	677.412	677.408	677.410

INTERIOR BEAM MOMENT TABLE		
	BRGS. N.	PIER
I_s (in ⁴)	3620	3620
I_c (in ⁴)	10086	10086
S_x (in ³)	267	267
S_y (in ³)	397	397
Z (in ²)	—	—
D (in)	46.2	46.2
M_x (K)	163.5	394.1
S_x (K)	0.3	—
M_y (K)	83.9	—
M_z (K)	357.2	182.0
M_{max} (K)	97.2	49.6
$S_x(M+I)$ (K)	758.8	386.8
M_y (K)	—	—
M_z (K)	—	—
F_x (non-compos)	734	1771
F_x (comp)	290	—
F_y (L+I) (K)	2294	17.38
F_y (non-compos)	3508	35.09
F_y (comp)	43.0	45.62
V_R (K)	93.1	—

INTERIOR BEAM REACTION TABLE		
	ABUT.	PIER
R_{TSE} (K)	22.0	70.65
R_L (K)	85.50	41.4
R_{top} (K)	9.6	11.47
R_{bottom} (K)	66.9	123.52



LEGEND:

I_s and S_x are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).

I_c and S_y are the moment of inertia and section modulus of the composite section used in computing f_c (Total and Overload).

M is the maximum M + impact shear range in span.

I is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.

The Fully Plastic Moment capacity (M_p) is computed according to AISI 10.43.1 & 10.50.1.1.

f_s (Total) is the sum of the stresses due to $1.2 D L + M_x R + \frac{1}{3} (M_L + I)$

f_c (Overload) is the sum of the stresses due to $M_x R + M_y R + \frac{1}{3} (M_L + I)$

$M_x R$ = Moment due to dead loads on non-composite section.

$M_y R$ = Moment due to dead loads on composite section.

M_L = Moment due to live load on non-composite or composite section.

I = I in non-imp

NOTES:

- NTR DENOTES NOTCH TOUGHNESS REQUIREMENTS
- THE BOLTS FOR SLOTTED HOLES IN ANGLES AT BEAM 3 SHALL ONLY BE FINGER-TIGHTENED PRIOR TO THE DECK SLAB POURING AND THEN TO BE FULLY-TIGHTENED AFTER COMPLETION OF THE POURING

- DIAPHRAGM D₁ CONSTRUCTION SEQUENCE**
- ORDER DIAPHRAGM D₁ IN TWO SECTIONS WITH LENGTHS OF 5'-8 1/2" AND 2'-8 1/2"
 - ATTACH SECTION ① OF DIAPHRAGM TO BEAM 3 AND TOP FLANGE SPLICE PLATE DURING STAGE 1 CONSTRUCTION
 - PLACE TIMBER BLOCK POSTS BETWEEN SECTION ① OF DIAPHRAGM AND ABUTMENT BEARING SEAT
 - ATTACH SECTION ② OF DIAPHRAGM TO BOTH BEAM 4 AND TOP FLANGE SPLICE PLATE DURING STAGE 2 CONSTRUCTION
 - ATTACH WEB SPLICE PLATES TO SECTIONS ① AND ② OF DIAPHRAGMS
 - REMOVE TIMBER BLOCK POSTS
 - ATTACH BOTTOM FLANGE SPLICE PLATE TO SECTIONS ① AND ② OF DIAPHRAGMS

FOR INFORMATION "ONLY"

REVISED		ILLINOIS DEPARTMENT OF TRANSPORTATION	
BY	DATE		
		STEEL FRAMING PLAN; TABLE OF DESIGN DATA; DETAILS.	
		ILLINOIS ROUTE 47	
		FAP-326 SECTION 122 BR	
		STA. 740+75 LIVINGSTON COUNTY	
		S.N. 053-0047	
		SCALE: NONE	DATE:
DRAWN BY	E.M.	LOUIS BERGER & ASSOCIATES, INC. CHICAGO, IL	
CHECKED BY	S.J.		

USER NAME = woodshank1	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR
LOCATION NO. 2 STRUCTURE NO. 053-0047

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
53	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	25
*FAI 55 (I-55), & FAP 326 (IL 47)		CONTRACT NO. 66M21		
ILLINOIS FED. AID PROJECT				

FAP 326 (IL-47)	LIVINGSTON	IN	SI	SHEET NO. 1
SEC 124 BR-1				SHEETS 20
SHEET NO. 1				K 124 BR-1

Bench Mark:
Chiseled square on northwest wingwall of the north abutment on bridge over the Vermilion River at south edge of forest, 19' Lt., Sta. 1295+82, EL 685.85.

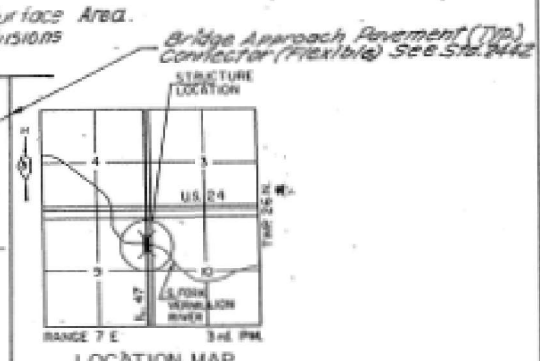
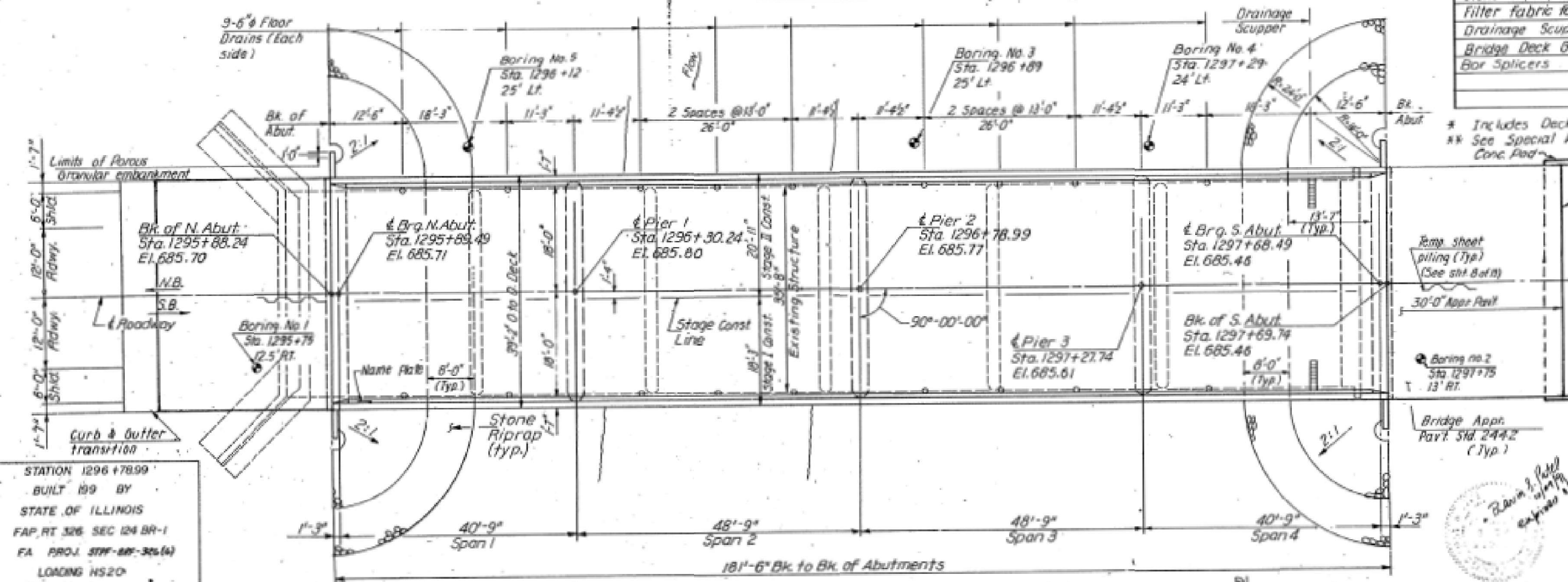
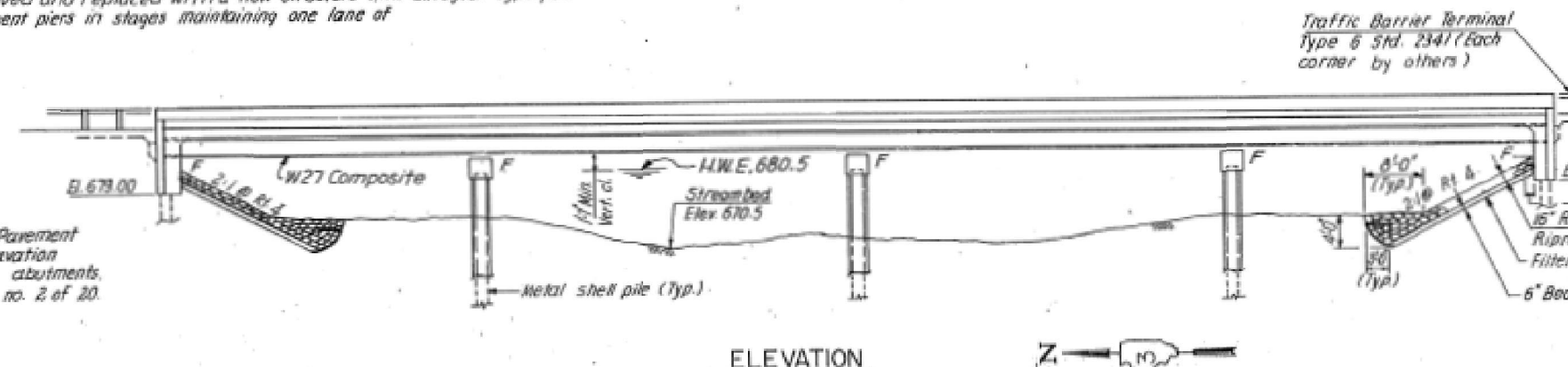
Existing Structure No. 053-0052 was rehabilitated in 1959. It consists of 6 simple spans, a reinforced concrete slab bridge (4-30'-0" spans & 2-29'-0" spans) supported on closed and pile bent abutments and solid piers. The overall width of the bridge is 35'-8" and 181'-6" Bk to Bk. of Abutments.

Proposed Structure:
Existing structure to be removed and replaced with a new structure with Integral type pile bent abutments and enclosed pile bent piers in stages maintaining one lane of traffic.
No Salvage.

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
Porous Granular Embankment	Cu. Yd.	—	94	94
Removal of existing Structures	Each	—	—	1
Structure excavation	Cu. Yd.	—	87	87
Floor Drains	Each	18	—	18
Class X Concrete, Superstructure	Cu. Yd.	228.8	—	228.8
Protective Coat	Sq. Yd.	874	—	874
Class X Concrete	Cu. Yd.	—	145.3	145.3
Furnishing & Erecting Structural Steel	L. Sum	—	—	1
Stud Shear Connectors	Each	2844	—	2844
Reinforcement Bars, Epoxy coated.	Lbs.	95,090	12,530	107,620
Furnishing metal pile shells (14"φ)	L. Ft.	—	1541	1541
Driving and filling shells (14"φ)	L. Ft.	—	1541	1541
Test piles metal shell (14"φ)	Each	—	3	3
Temp. Sheet piling	Sq. Ft.	—	1700	1700
Name Plates	Each	1	—	1
Stone Riprap, Class A4	Sq. Yd.	—	544	544
Filter fabric for use with riprap	Sq. Yd.	—	544	544
Drainage Scupper	Each	2	—	2
Bridge Deck Grooving	Sq. Yd.	725	—	725
Bar Splicers	Each	603	26	629

Notes:
See Roadway plans for Pavement removal and Channel excavation between new and existing abutments. For General Notes see sht. no. 2 of 20.



DESIGN SPECIFICATIONS
AASHTO 1989 Standard Specifications for Highway Bridges, 1990 & 1991 Interims.

LOADING HS20-44
Allow 25 # Sq. ft. for future wearing surface

DESIGN STRESSES
 f_c - 3,500 psi
 f_y - 60,000 psi (Reinf.)
 f_y - 36,000 psi (Structural Steel)

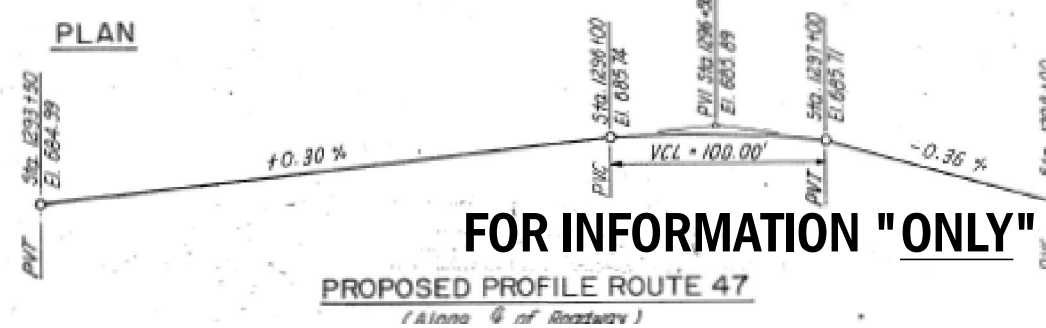
STATION 1296+78.99
BUILT 1899 BY
STATE OF ILLINOIS
FAP RT 326 SEC 124 BR-1
FA PROJ. STIP. 887-366(14)
LOADING HS20
STR. NO. 053-0168

NAME PLATE
(STD. 2113)

WATERWAY INFORMATION

DRAINAGE AREA = 61.77 Sq. Mi. LOW GRADE ELEV. = 685.08 @ Sta. 1297+00

FLOOD	FREQ. YR.	Q		OPNG. SQ. FT.		NAT.		HEAD-FT.		HEADWATER EL.	
		EXIST.	PROP.	EXIST.	PROP.	HWE.	EXIST.	PROP.	EXIST.	PROP.	
DESIGN	50	4710	1025	1044	680.5	0	0	680.5	680.5		
BASE	100	5320	1112	1135	680.8	0	0	680.8	680.8		
OVERTOPPING											
MAX. CALC.	500	6120	1230	1259	681.4	0	0	681.4	681.4		



REVISIONS

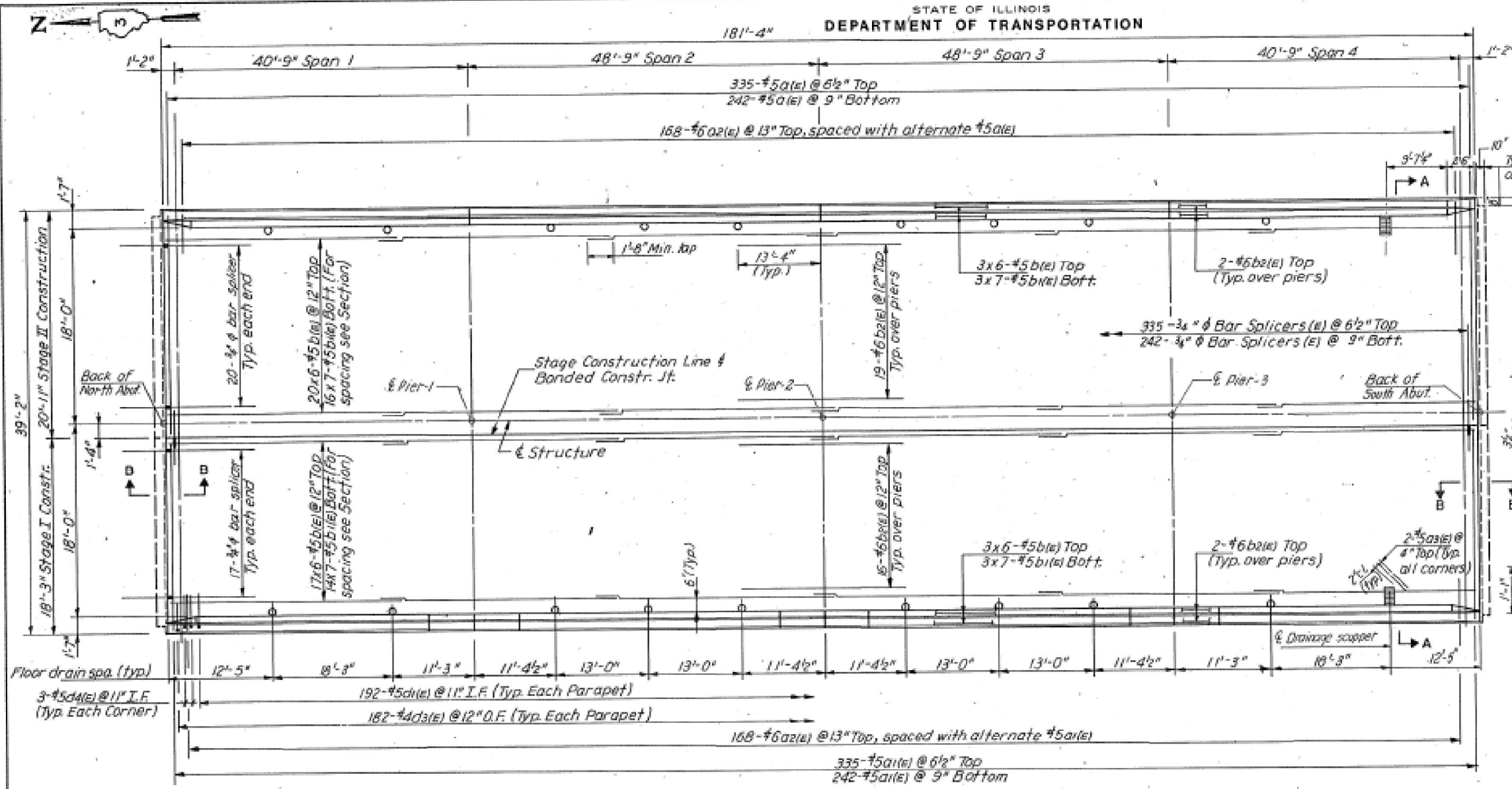
NAME	DATE
RJS	7-22-92

P.G. ENGINEERING ASSOCIATES, INC.
400 WEST JACKSON BLVD.
CHICAGO ILLINOIS, 60606

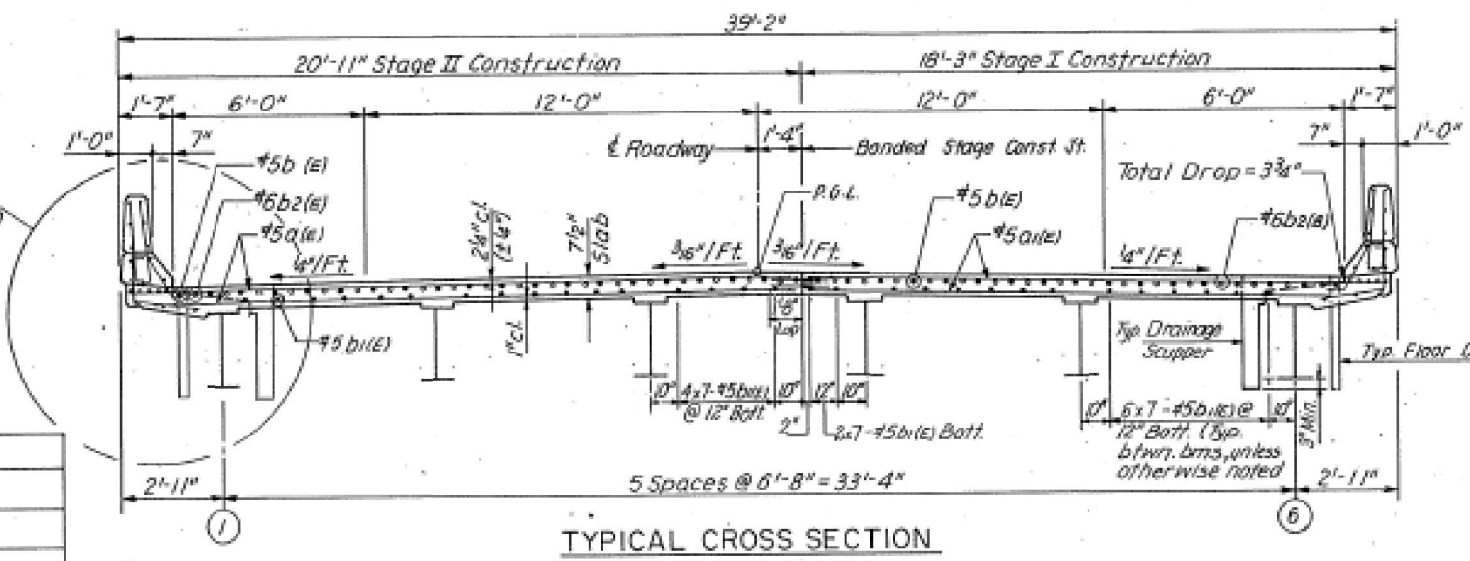
GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 47 OVER S. BRANCH VERMILION RIVER
FAP 326 (IL. 47) SEC. 124 BR-1
STA. 1296+78.99
LIVINGSTON COUNTY
STRUCTURE NUMBER 053-0168
SCALE:
DATE:

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PROJECT: 053-0168
USER: woodhank
DATE: 12/7/2021

DESIGNED - R.V.P.	USER NAME = woodhank	DESIGNED - RW	REVISED -
CHECKED - J.M.P.		DRAWN - RW	REVISED -
DRAWN - K.A.C./V.B.P.	PLOT SCALE = 100,000' / 1"	CHECKED - Y.P.	REVISED -
	PLOT DATE = 12/7/2021	DATE - 8/19/2021	REVISED -



PLAN



TYPICAL CROSS SECTION

BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
a1(e)	577	#5	20'-0"	—
a1(e)	577	#5	17'-3"	—
a2(e)	335	#8	4'-0"	—
a3(e)	16	#5	2'-0"	—
a4(e)	12	#5	20'-7"	—
a5(e)	12	#5	17'-0"	—
a6(e)	2	#6	20'-7"	—
a7(e)	2	#6	17'-0"	—
a8(e)	10	#6	5'-9"	—
a9(e)	4	#6	2'-3"	—
b1(e)	258	#5	3'-9"	—
b1(e)	252	#5	2'-6"	—
b2(e)	117	#6	28'-8"	—
d1(e)	396	#5	3'-0"	—
d1(e)	394	#5	2'-7"	—
d2(e)	364	#4	3'-0"	—
d3(e)	364	#4	3'-11"	—
d4(e)	12	#5	2'-10"	—
d5(e)	82	#5	4'-0"	—
e1(e)	72	#4	13'-9"	—
e1(e)	72	#4	16'-0"	—
e2(e)	16	#8	28'-7"	—
e3(e)	16	#5	25'-3"	—
e4(e)	16	#8	23'-3"	—
e5(e)	16	#5	22'-0"	—
s1(e)	72	#5	6'-5"	—
s1(e)	64	#4	7'-2"	—
ITEM	UNIT	QTY.		
Reinforcement Bars (Epoxy Coated)	Lbs.	55090		
Class X Conc., Superstru.	Cu Yds.	228.8		
Floor Drains	Each	18		
Drainage Scupper	Each	2		

FOR INFORMATION "ONLY"

P.G. ENGINEERING ASSOCIATES, INC.
900 WEST JACKSON BLVD.
CHICAGO ILLINOIS, 60606

DECK DETAILS I
ILLINOIS ROUTE 47 OVER S. BRANCH VERMILLION RIVER
FAP 326 (IL 47) SEC. 124 BR-1
STA. 1296 + 78.99
LIVINGSTON COUNTY
STRUCTURE NUMBER 053-068

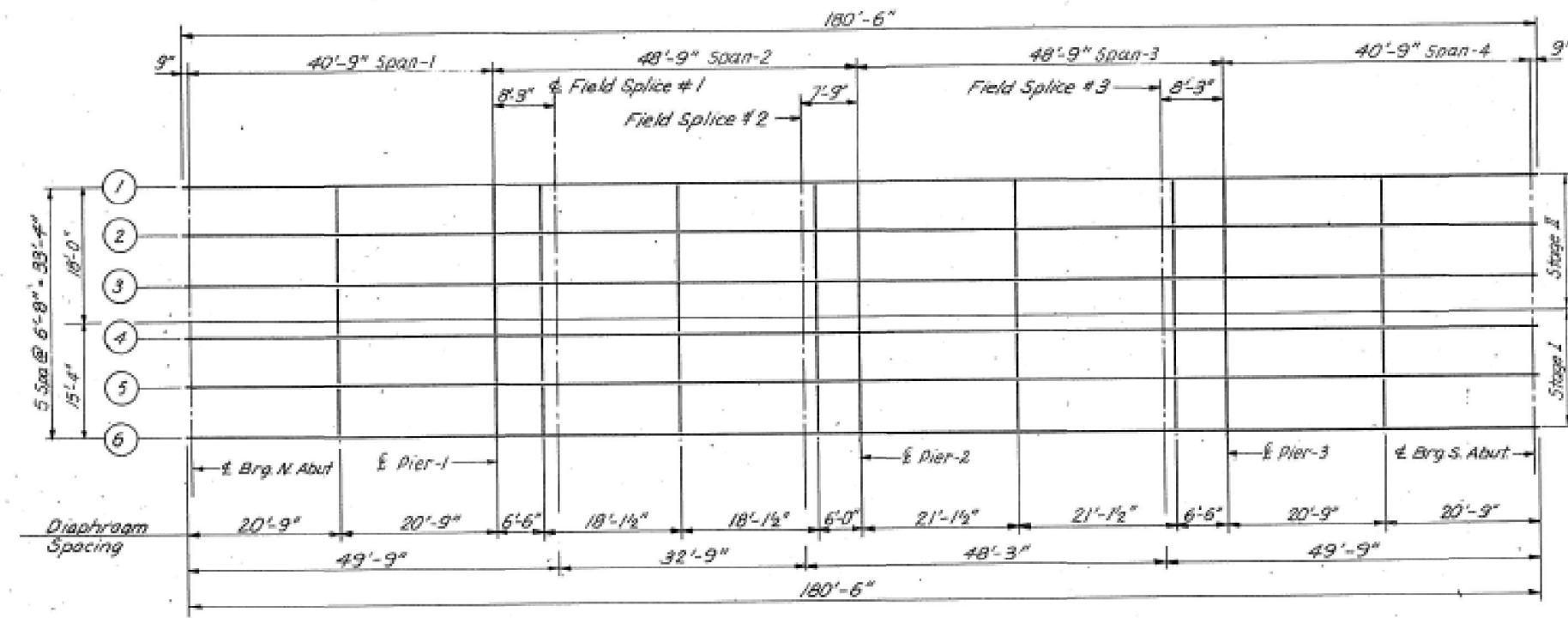
REVISIONS	
NAME	DATE

SCALE: _____
DATE: _____

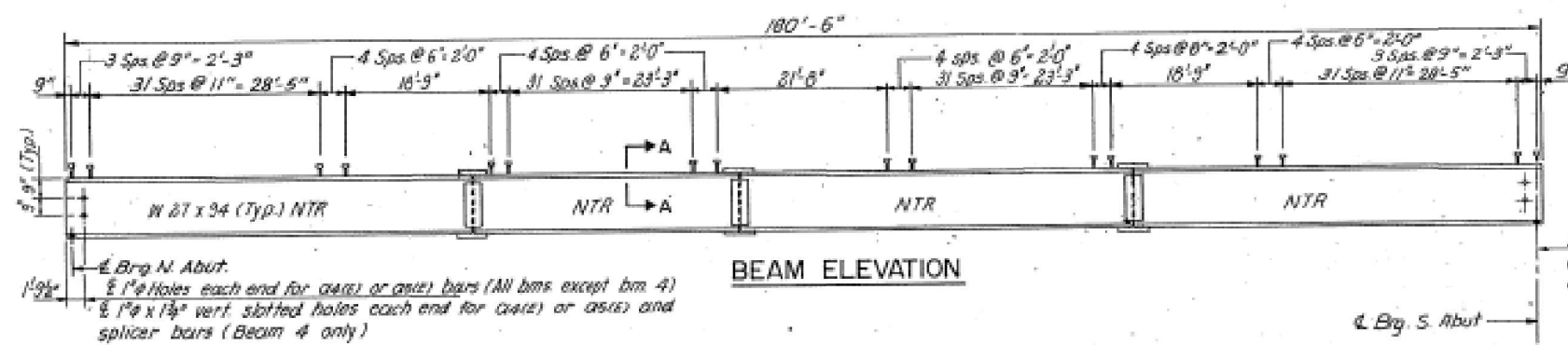
DESIGNED	R.V.P.
CHECKED	P.G.P.
DRAWN	K.A.C.

USER NAME	= woodshank1	DESIGNED	- RW	REVISED	-
		DRAWN	- RW	REVISED	-
PLOT SCALE	= 100,0000' / in.	CHECKED	- YP	REVISED	-
PLOT DATE	= 12/7/2021	DATE	= 8/19/2021	REVISED	-

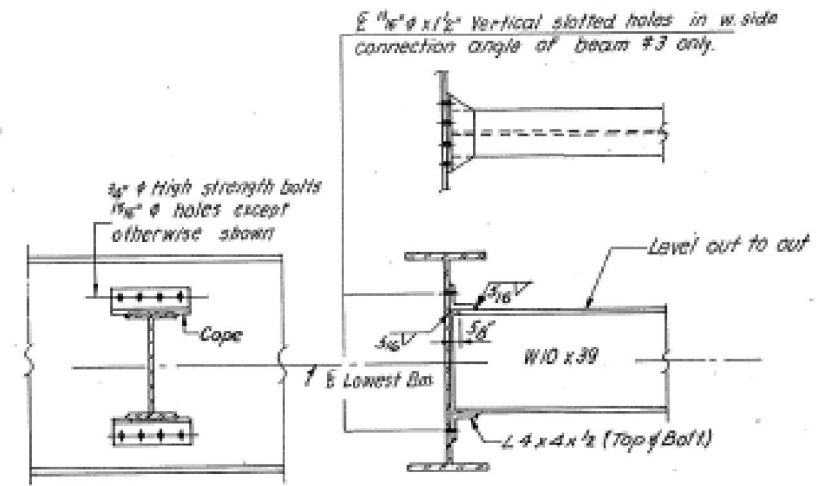
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 PLOT DATE: 8/19/2021 10:45:00 AM



FRAMING PLAN

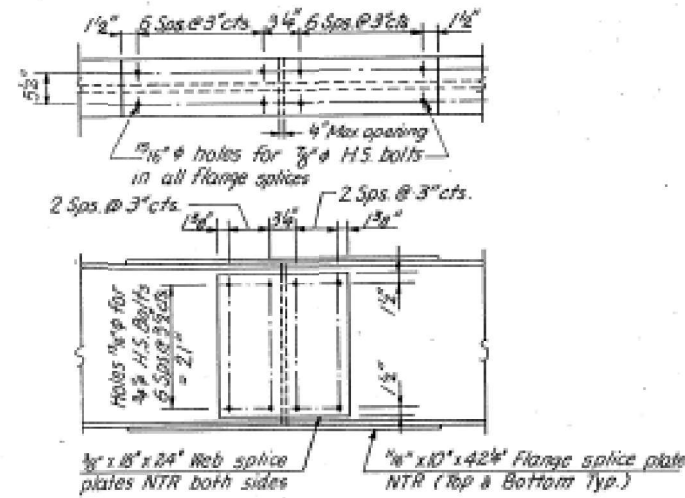


BEAM ELEVATION



INTERIOR DIAPHRAGM

(50 Required)

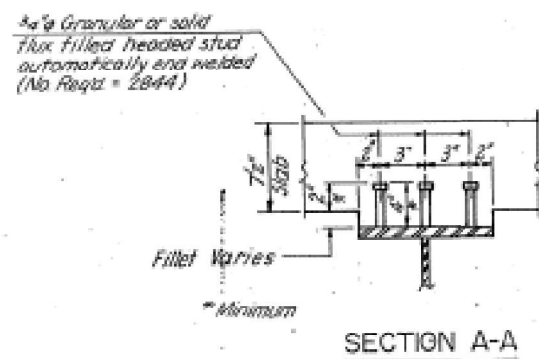


SPLICE WITH OUTSIDE FLANGE PLATE

NOTE:
Two hardened washers shall be required over all oversize holes for diaphragms.

FOR INFORMATION "ONLY"

LEGEND
NTR Denotes Notch Tough Requirements.



SECTION A-A

TOP OF BEAM ELEVATIONS

LOCATION SPAN	4 BRG. W. ABUT.	4 PIER # 1	4 FIELD SPICE #1	4 FIELD SPICE #2	4 PIER # 2	4 FIELD SPICE #3	4 PIER # 3	4 BRG. S. ABUT.
1	684.75	684.82	684.83	684.81	684.79	684.66	684.63	684.51
2	684.88	684.95	684.96	684.94	684.32	684.82	684.80	684.64
3	684.99	685.05	685.06	685.04	685.02	684.89	684.87	684.74
4	684.99	685.05	685.06	685.04	685.82	684.89	684.87	684.74
5	684.88	684.95	684.96	684.94	684.32	684.82	684.80	684.64
6	684.75	684.82	684.83	684.81	684.79	684.66	684.63	684.51

DESIGNED	R.V.P.
CHECKED	P.G.P.
DRAWN	A.S.P.
	D.V.P.

REVISIONS	
NAME	DATE

P.G. ENGINEERING ASSOCIATES, INC.
600 WEST JACKSON BLVD.
CHICAGO ILLINOIS 60604

FRAMING PLAN
ILLINOIS ROUTE 47 OVER S BRANCH
VERMILION RIVER
FAP 326 (IL 47) SEC. 124BR-1
STA. 1296 + 78.99
LIVINGSTON COUNTY
STRUCTURE NUMBER 053-0168

SCALE: VERT. HORIZ.
DATE

MODEL: Default
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DATE: 8/19/2021 10:56:42 AM

USER NAME = woodshank1	DESIGNED - RW	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - RW	REVISED -
PLOT DATE = 12/7/2021	CHECKED - YP	REVISED -
	DATE - 8/19/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR
LOCATION NO. 3 STRUCTURE NO. 053-0168

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(53-6HB, 122BR, 124BR-1)BP	LIVINGSTON	28	28
*FAI 55 (I-55), & FAP 326 (IL 47)				CONTRACT NO. 66M21
	ILLINOIS	FED. AID PROJECT		