

INDEX OF SHEETS

03-08-2024 LETTING ITEM 038

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SEE SHEET NO. 2 FOR LIST OF HIGHWAY STANDARDS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

**FAP ROUTE 317 (US 24)
SECTION (24BR2)BR
PROJECT NHPP-2E5C(651)
BRIDGE REPLACEMENT
LIVINGSTON COUNTY**

C-93-047-23

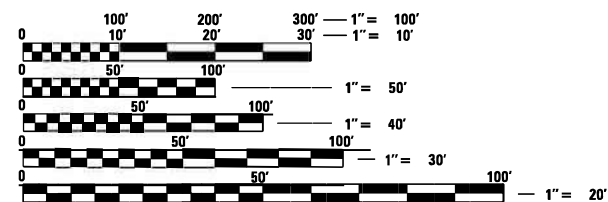
**EXISTING S.N. 053-0097
STA 950+68.00
PROPOSED S.N. 053-2042
STA 950+70.00**

**BEGIN IMPROVEMENT
STA 948+00.00**

**END IMPROVEMENT
STA 953+00.00**



**GROSS LENGTH = 500 FT. = 0.095 MILE
NET LENGTH = 500 FT. = 0.095 MILE**



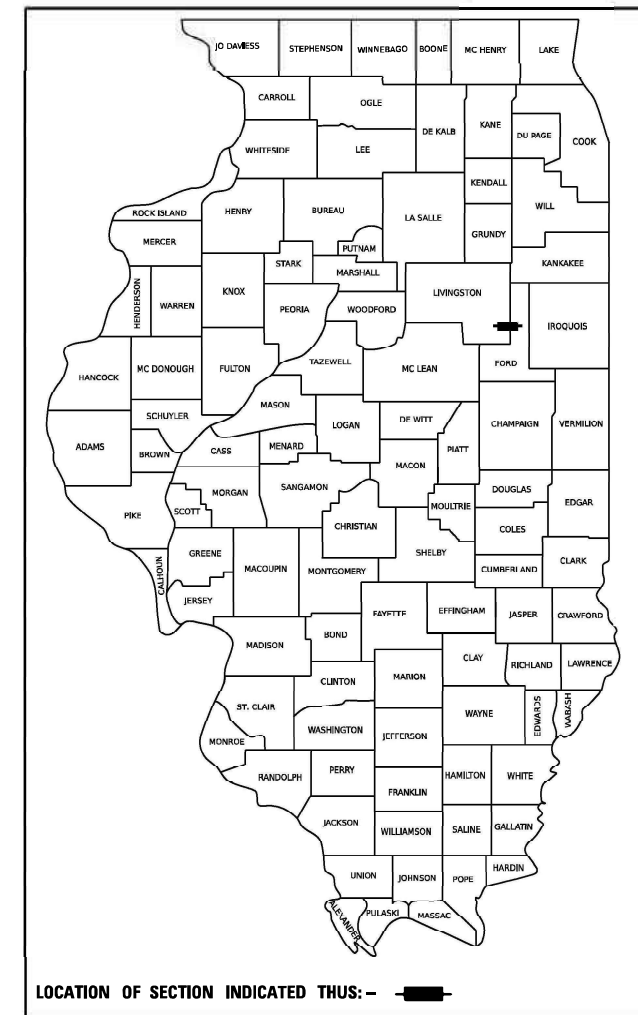
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOSEPH KANNEL, P.E.
UNIT CHIEF: MOHAMED YOUSIF
CONTRACT NO. 66M28**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]ES	LIVINGSTON	51	1
		ILLINOIS	CONTRACT NO. 66M28	

**D-93-026-23
P-93-015-22**



**FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL (RURAL)
F.A.P. ROUTE 317 (US 24)
2021 ADT = 2100
P.V.=65.5% S.U.=7.1% M.U.=27.4%**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 15, 2023

Joseph Kannel
REGIONAL ENGINEER

February 2, 2024
Joseph Kannel
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2024
Stephen McNeill
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

GENERAL NOTES:

(1) THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

(2) EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF THE PAVEMENT SURFACES.

(3) FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

(4) THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

(5) ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

(6) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

(7) ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

(8) ANY EXISTING WEIGHT LIMIT SIGN AND POST PLACED FOR THE EXISTING CULVERT SHALL BE REMOVED AND RETURNED TO IDOT.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION

COMMITMENTS:

NO COMMITMENTS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
 EASTERN ILLINI ELECTRIC
 FRONTIER COMMUNICATIONS CORPORATION
 EXXON MOBIL
 PEOPLES GAS LIGHT AND COKE
 BUCKEYE PIPELINE

THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 AREAS OF REINFORCEMENT BARS
 DECIMAL OF AN INCH AND A FOOT
 TEMPORARY EROSION CONTROL SYSTEMS
 HMA SLHD./SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
 NAME PLATE FOR BRIDGES
 CONCRETE END SECTIONS FOR PIPE CULVERTS
 STEEL PLATE BEAM GUARDRAIL
 STRONG POST GUARDRAIL ATTACHED TO CULVERT
 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
 SHOULDER RUMBLE STRIPS, 8 IN.
 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY
 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH
 TRAFFIC CONTROL DEVICES
 TEMPORARY CONCRETE BARRIER
 OBJECT AND TERMINAL MARKERS
 TYPICAL PAVEMENT MARKINGS
 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

- 000001- 08
- 001001-02
- 001006
- 280001-07
- 482011-03
- 515001- 04
- 542001-06
- 630001- 13
- 630101- 11
- 630201-07
- 630301-09
- 642006 -01
- 701001-02
- 701006-05
- 701011-04
- 701201- 05
- 701311-03
- 701321- 18
- 701326-04
- 701901- 09
- 704001-08
- 725001-01
- 780001-05
- 781001-04
- 782006 -01

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA	HMA	HMA	HMA SHOULDER 8"	HMA SHOULDER 8"
	BINDER	SURFACE	BASE COURSE	BOTTOM LIFT(S)	TOP LIFT
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL 19.0	IL 9.5	IL 19.0	IL 19.0	IL 9.5
(MIXTURE GRADATION)					
FRICITION AGGREGATE:		MIXTURE C			
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO	NO	NO

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	DRAWN - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	CHECKED - JNH	REVISED - _____
PLOT DATE = 9/29/2023	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, HIGHWAY STANDARDS & COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	2
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

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80% FED
 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BOX CULVERT 0010 053-0097
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70
20200100	EARTH EXCAVATION	CU YD	270	270
20400800	FURNISHED EXCAVATION	CU YD	140	140
20700220	POROUS GRANULAR EMBANKMENT	CU YD	585	585
25000200	SEEDING, CLASS 2A	ACRE	0.75	0.75
25100630	EROSION CONTROL BLANKET	SQ YD	2800	2800
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	450	450
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	68	68
28000305	TEMPORARY DITCH CHECKS	FOOT	96	96
28000400	PERIMETER EROSION BARRIER	FOOT	1128	1128
28000500	INLET AND PIPE PROTECTION	EACH	2	2
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2800	2800



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PLOT DATE = 10/17/2023	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	3
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

Long Section Number

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BOX CULVERT 0010 053-0097
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	450	450
28100107	STONE RIPRAP, CLASS A4	SQ YD	146	146
28200200	FILTER FABRIC	SQ YD	146	146
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	228	228
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	213	213
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	480	480
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1500	1500
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	27	27
40604002	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N70	TON	140	140
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	702	702
44000100	PAVEMENT REMOVAL	SQ YD	202	202
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1780	1780
44004250	PAVED SHOULDER REMOVAL	SQ YD	124	124
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	101	101

MODEL: Summary of Quantities - Summary of Quantities-1 (Sheet)
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PLOT DATE = 10/17/2023

DESIGNED - TJB
DRAWN - TJB
CHECKED - JNH
DATE - 3/17/2023

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REVISED - _____
REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 4
CONTRACT NO. 66M28				
Long Section Number ILLINOIS FED. AID PROJECT				

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80% FED
 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BOX CULVERT 0010 053-0097
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	480	480
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	45	45
50200100	STRUCTURE EXCAVATION	CU YD	435	435
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7810	7810
51500100	NAME PLATES	EACH	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	477	477
54003000	CONCRETE BOX CULVERTS	CU YD	79.4	79.4
54011111	PRECAST CONCRETE BOX CULVERTS 11' X 11'	FOOT	110	110
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	46	46
54261624	CONCRETE END SECTIONS, STANDARD 542001, 24", 1:6	EACH	2	2
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	175	175
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450	450
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	50	50

* = SPECIALTY ITEM



USER NAME = tbarker
 PLOT SCALE = 0.16666633 1/ in.
 PLOT DATE = 10/17/2023

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 DRAWN - TJB
 CHECKED - JNH
 DATE - 3/17/2023

REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 317	SECTION [(24BR2)BR]ES	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 5
CONTRACT NO. 66M28			ILLINOIS FED. AID PROJECT	

Long Section Number REV. 1/29/24 REV. 1/16/24

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE BOX CULVERT 0010 053-0097
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	706	706
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	144	144
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	48	48
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2761	2761
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	500	500
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	41	41
70400100	TEMPORARY CONCRETE BARRIER	FOOT	337.5	337.5

*= SPECIALTY ITEM

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PLOT DATE = 10/17/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	6
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

Long Section Number REV. 1/29/24 REV. 1/16/24

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BOX CULVERT 0010 053-0097
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	48	48
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	337.5	337.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2000	2000
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	260	260
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	13	13
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	54	54
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	13	13
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1865	1865
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	175	175
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	8	8

*= SPECIALTY ITEM

MODEL: Summary of Quantities - Summary of Quantities-4 (Sheet)
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PLOT DATE = 10/17/2023	CHECKED - JNH	REVISIONS - _____
	DATE - 3/17/2023	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 7
CONTRACT NO. 66M28			ILLINOIS FED. AID PROJECT	

Long Section Number REV. 1/29/24 REV. 1/16/24

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80% FED
 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	63	BOX CULVERT 0010 053-0097



USER NAME = tbarker
PLOT SCALE = 0.16666633 1/ in.
PLOT DATE = 10/17/2023

DESIGNED - TJB	REvised - _____
DRAWN - TJB	REvised - _____
CHECKED - JNH	REvised - _____
DATE - 3/17/2023	REvised - _____

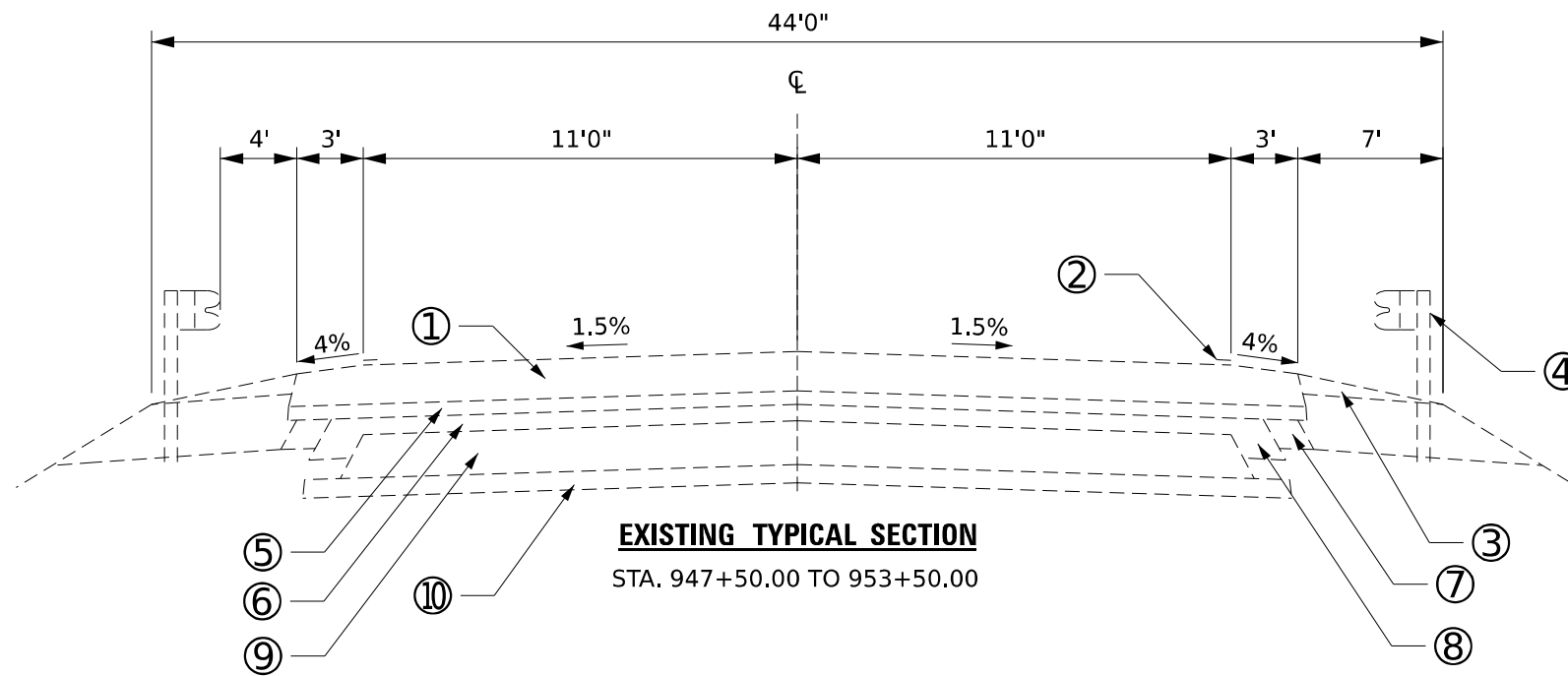
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	8
CONTRACT NO. 66M28				
Long Section Number ILLINOIS FED. AID PROJECT				

MODEL: Typical Sections - Typical Sections (Sheet)
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LEGEND

- ① EXISTING HMA SURFACE COURSE, 3"
- ② EXISTING PAVEMENT MARKING - LINE 4" SOLID WHITE
- ③ EXISTING AGGREGATE SHOULDER, TYPE B
- ④ EXISTING GUARDRAIL
- ⑤ EXISTING BITUMINOUS OVERLAY, 3/4"
- ⑥ EXISTING BITUMINOUS OVERLAY, 3 5/8"
- ⑦ EXISTING BITUMINOUS SHOULDER, 5 3/4"
- ⑧ EXISTING BITUMINOUS SHOULDER, 6"
- ⑨ EXISTING PCC PAVEMENT, 9"
- ⑩ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A

EXISTING TYPICAL SECTION
 STA. 947+50.00 TO 953+50.00



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
	DRAWN - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	CHECKED - JNH	REVISED - _____
PLOT DATE = 9/29/2023	DATE - 3/17/2023	REVISED - _____

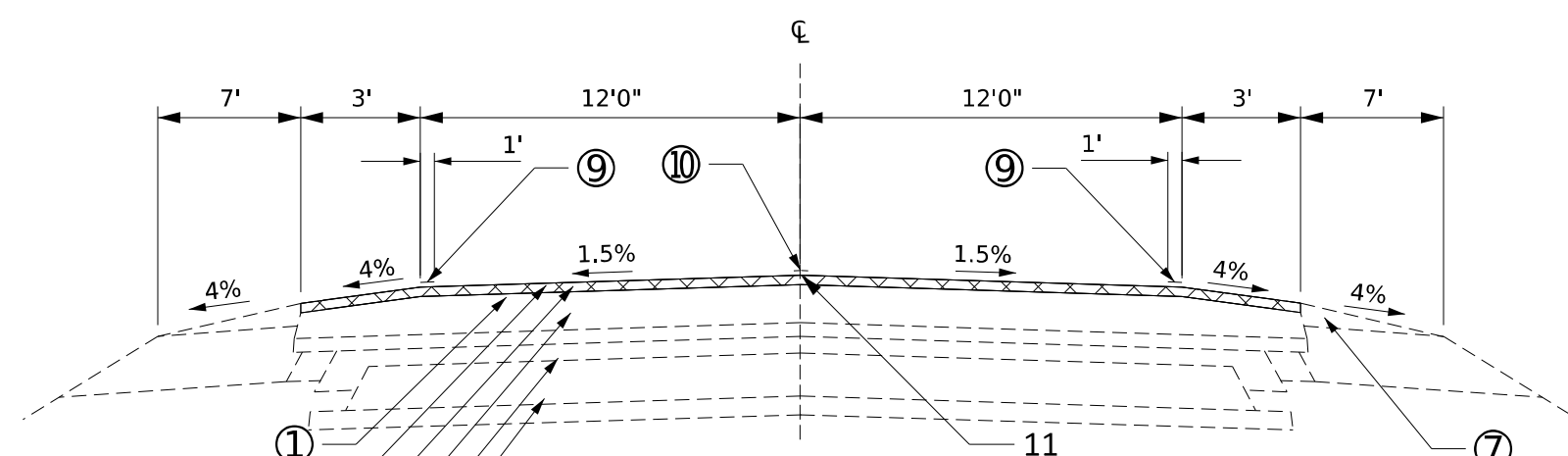
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 US 24 OVER NORTH FORK VERMILLION RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]ES	LIVINGSTON	51	9
			CONTRACT NO. 66M28	
		ILLINOIS	FED. AID PROJECT	

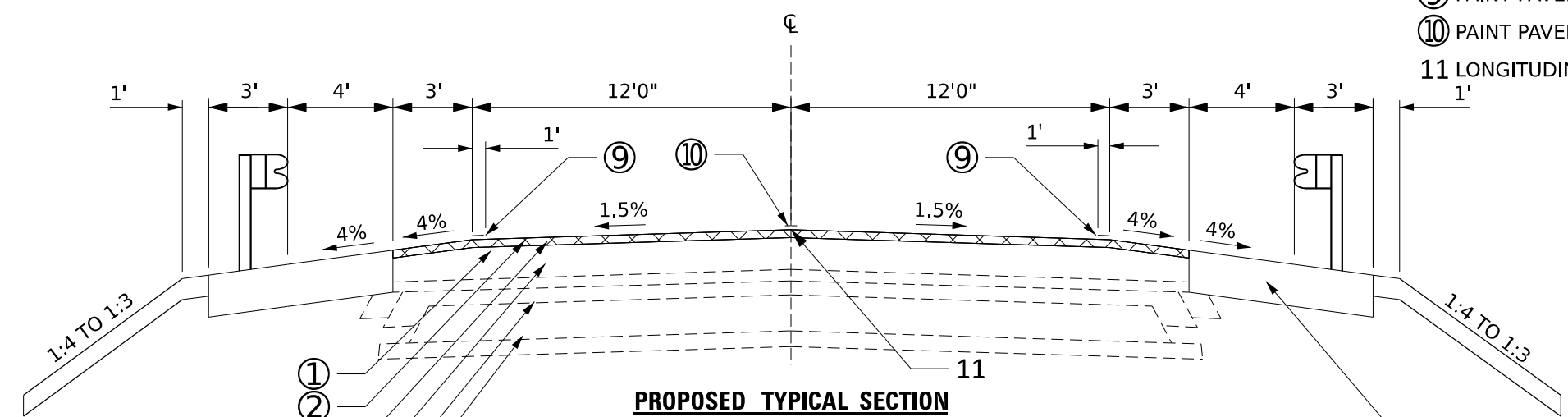
Long Section Number



PROPOSED TYPICAL SECTION
 STA. 948+00.00 TO 948+86.00
 STA. 952+54.00 TO 953+00.00

LEGEND

- ① EXISTING HMA SURFACE COURSE, 3.00"
- ② PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- ③ PROPOSED HMA SURFACE COURSE, 1 1/2"
- ④ EXISTING BITUMINOUS OVERLAY, 4 3/8"
- ⑤ EXISTING PCC PAVEMENT, 9"
- ⑥ EXISTING SUBBASE GRANULAR MATERIAL, TYPE A
- ⑦ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED HMA SHOULDER, 8"
- ⑨ PAINT PAVEMENT MARKING - LINE 4" SOLID WHITE
- ⑩ PAINT PAVEMENT MARKING - 6" DASHED YELLOW
- 11 LONGITUDINAL JOINT SEALANT



PROPOSED TYPICAL SECTION
 STA. 948+86.00 TO 950+37.00
 STA. 951+01.00 TO 952+54.00

MODEL: Typical Sections - Typical Sections-1 (Sheet 1)
 FILE NAME: C:\CAD\DOT\CAD_CDD\Computer\Bentley\WorkSpace\DOT\3 Work Order 7\JUS24 Over North Fork Vermillion River.dgn



USER NAME = tbarker	DESIGNED - _____	REVISED - _____
PLOT SCALE = 0.16666633 1/16 in.	DRAWN - _____	REVISED - _____
PLOT DATE = 10/16/2023	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

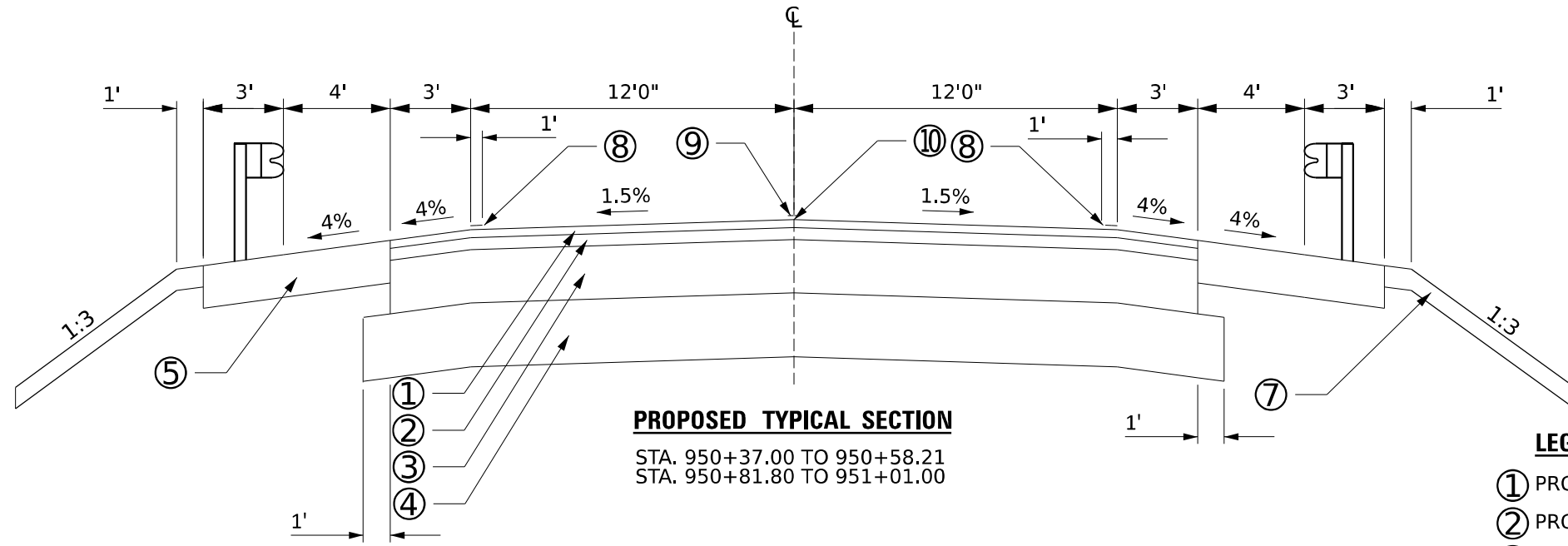
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 US 24 OVER NORTH FORK VERMILLION RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	10
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

Long Section Number

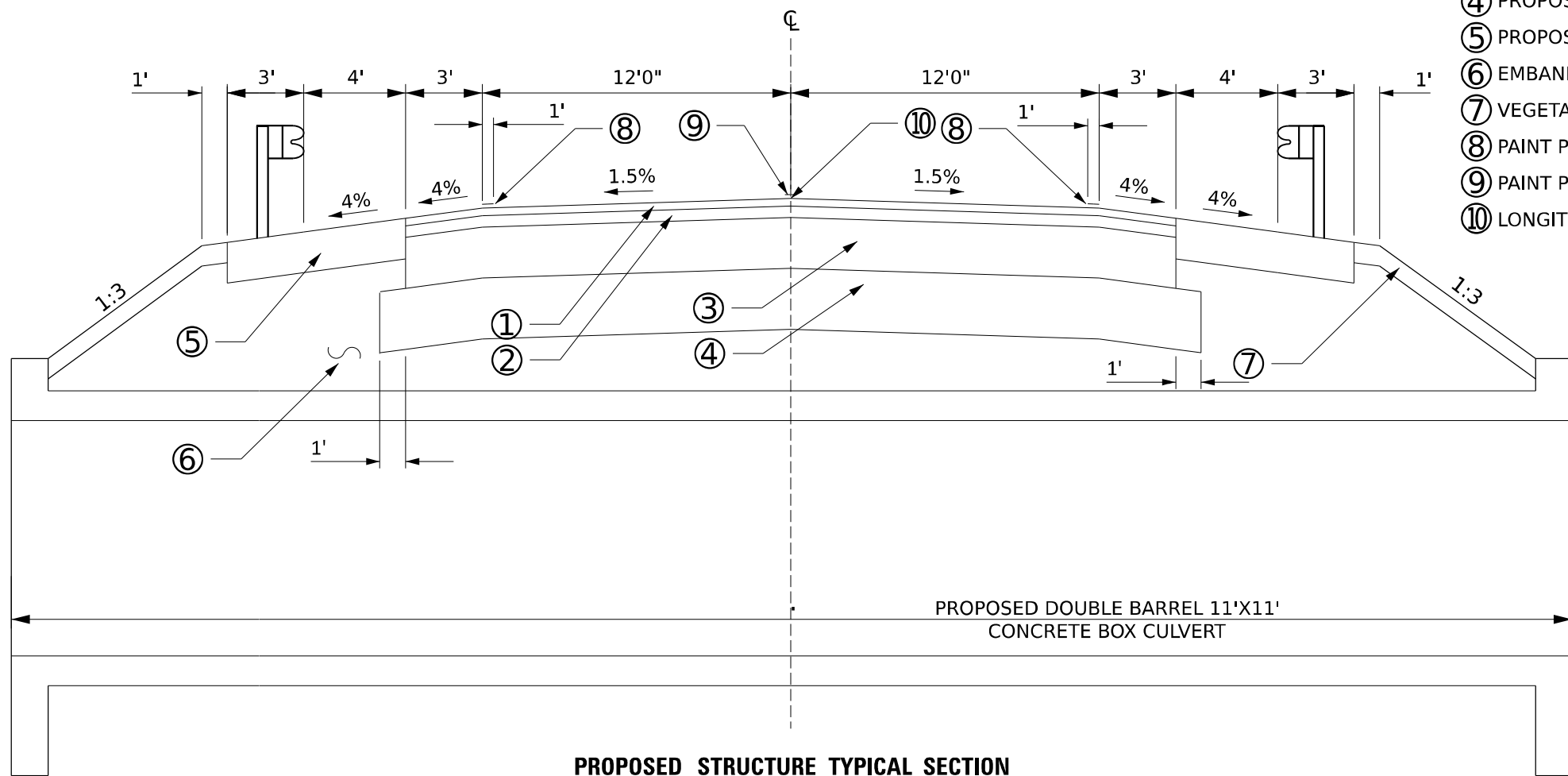


PROPOSED TYPICAL SECTION

STA. 950+37.00 TO 950+58.21
 STA. 950+81.80 TO 951+01.00

LEGEND

- ① PROPOSED HMA SURFACE COURSE, 1.50"
- ② PROPOSED HMA BINDER COURSE, 2.25"
- ③ PROPOSED HMA BASE COURSE, 8.00"
- ④ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ⑤ PROPOSED HMA SHOULDER, 8"
- ⑥ EMBANKMENT
- ⑦ VEGETATION SUSTAINING SOIL, 4" (INCIDENTAL)
- ⑧ PAINT PAVEMENT MARKING - LINE 4" SOLID WHITE
- ⑨ PAINT PAVEMENT MARKING - LINE 6" DASHED YELLOW
- ⑩ LONGITUDINAL JOINT SEALANT



PROPOSED STRUCTURE TYPICAL SECTION

STA. 950+58.21 TO 950+81.80

PROPOSED DOUBLE BARREL 11'X11'
 CONCRETE BOX CULVERT

MODEL: Typical Sections - Typical Sections-2 (Sheet 1)
 FILE NAME: C:\CAD\DOT\CAD_CDD\ComputerAid\WorkSpace\HDDOT\Consultant\Work\Set\210265\DOT D3 Work Order 7\US24 Over North Fork Vermillion River.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/16 in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

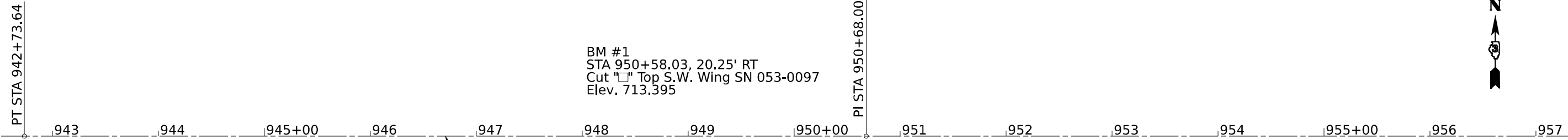
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 US 24 OVER NORTH FORK VERMILLION RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	11
CONTRACT NO. 66M28				

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

ILLINOIS FED. AID PROJECT
 Long Section Number

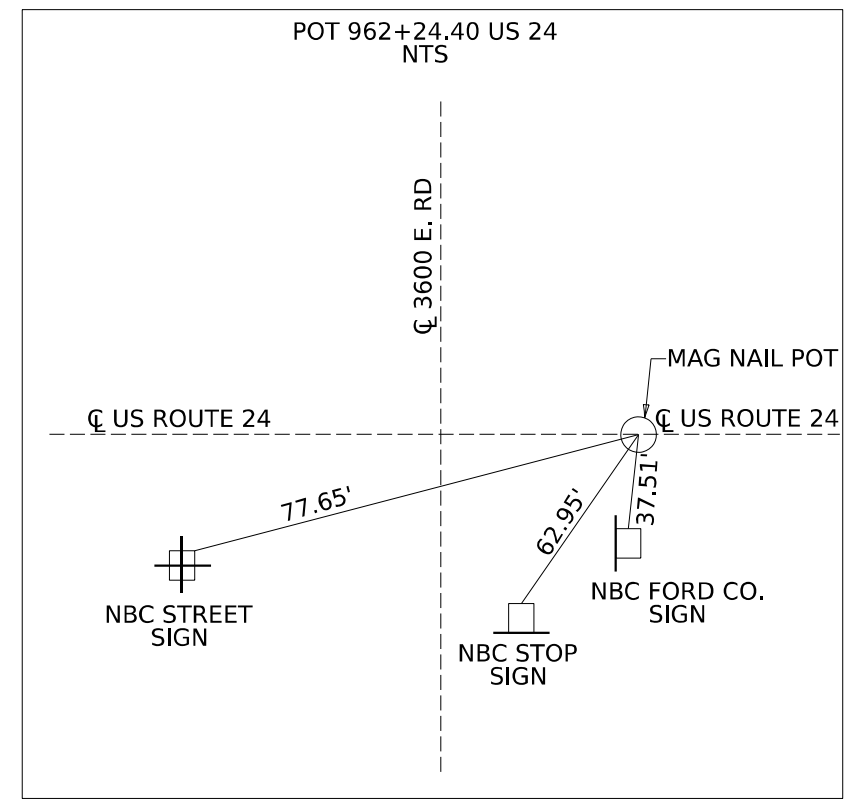
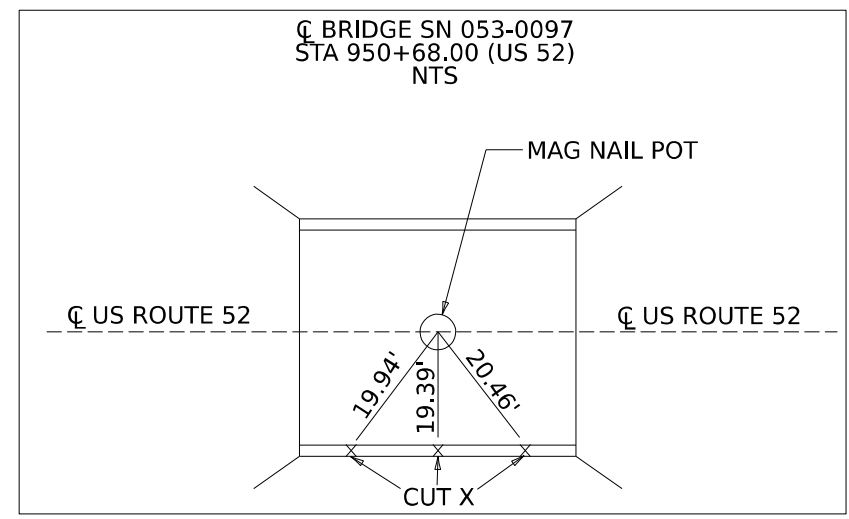
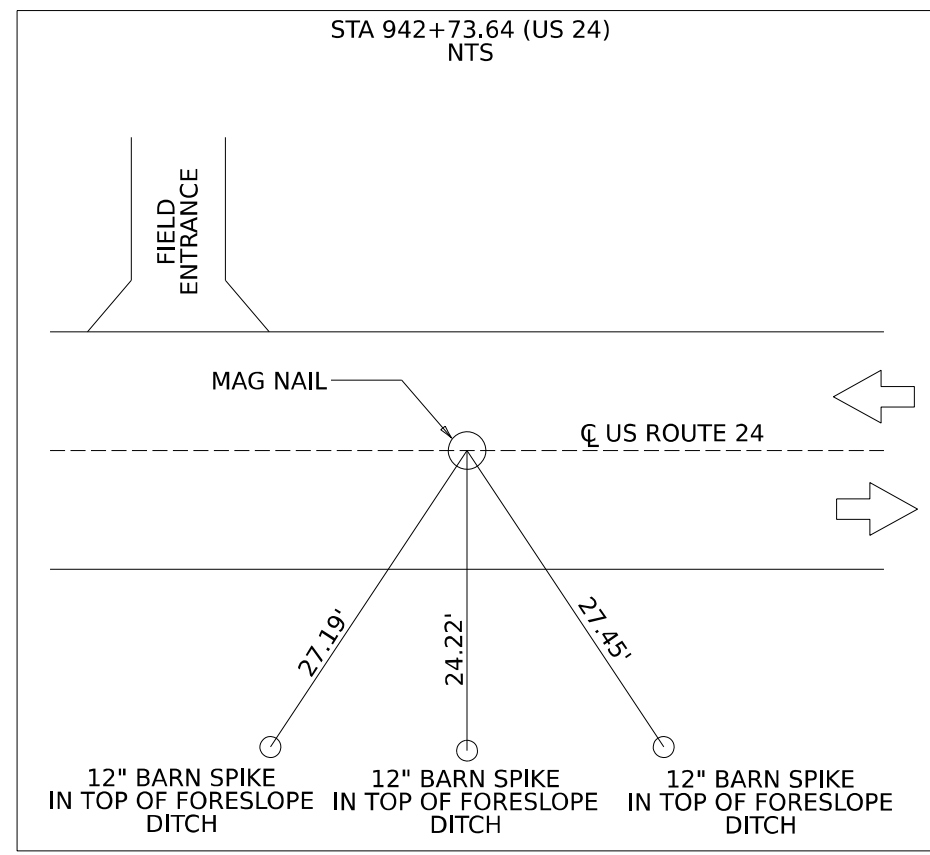
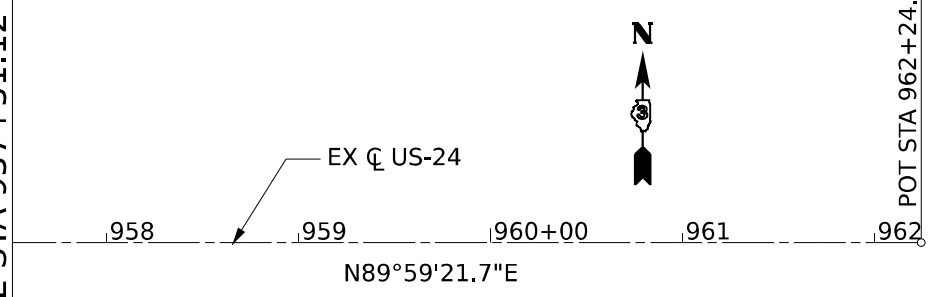


BM #1
 STA 950+58.03, 20.25' RT
 Cut "X" Top S.W. Wing SN 053-0097
 Elev. 713.395

BM #2
 STA 952+26.02, 68.72' RT
 Mag Nail in S. Side P.P. @ S.E. Quad
 Elev. 709.862

COORDINATE DATA			
STATION	NORTHING	EASTING	REMARKS
942+73.64	1,486,237.14	1,008,418.35	PT US 24
950+68.00	1,486,236.99	1,009,212.71	PI US 24
962+24.40	1,486,236.78	1,010,369.11	POT US 24

MATCH LINE STA 957+51.12



MODEL: Alignment Ties and Benchmarks - Alignment (Sheet)
 FILE NAME: C:\CAD\DOT\CAD_CED\Comparisons\WorkSpace\DOT_Consultant\Work\Station\US24_Over North Fork Vermillion River.dgn



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PLOT SCALE = 0.16666633 1/1 in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

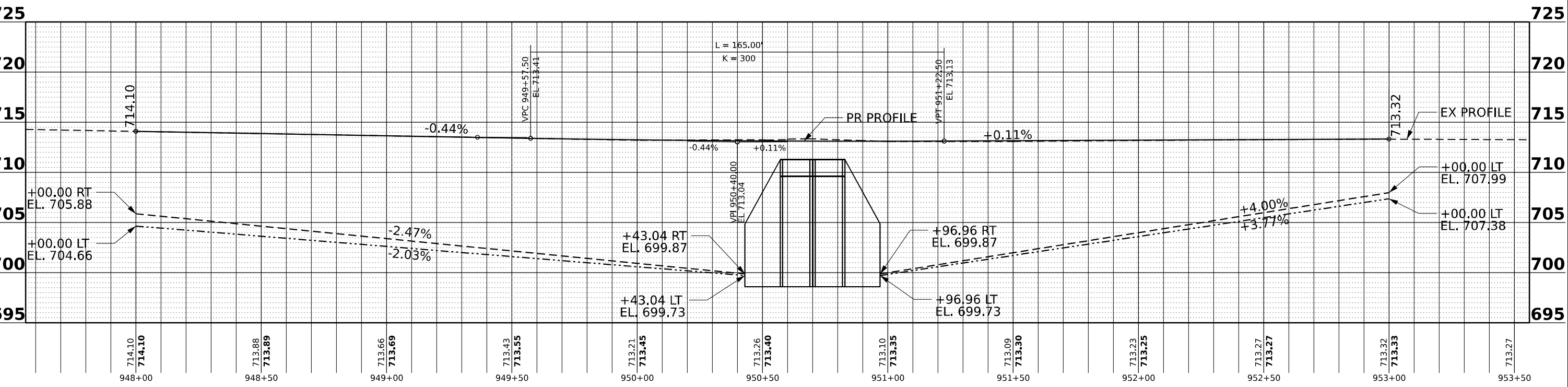
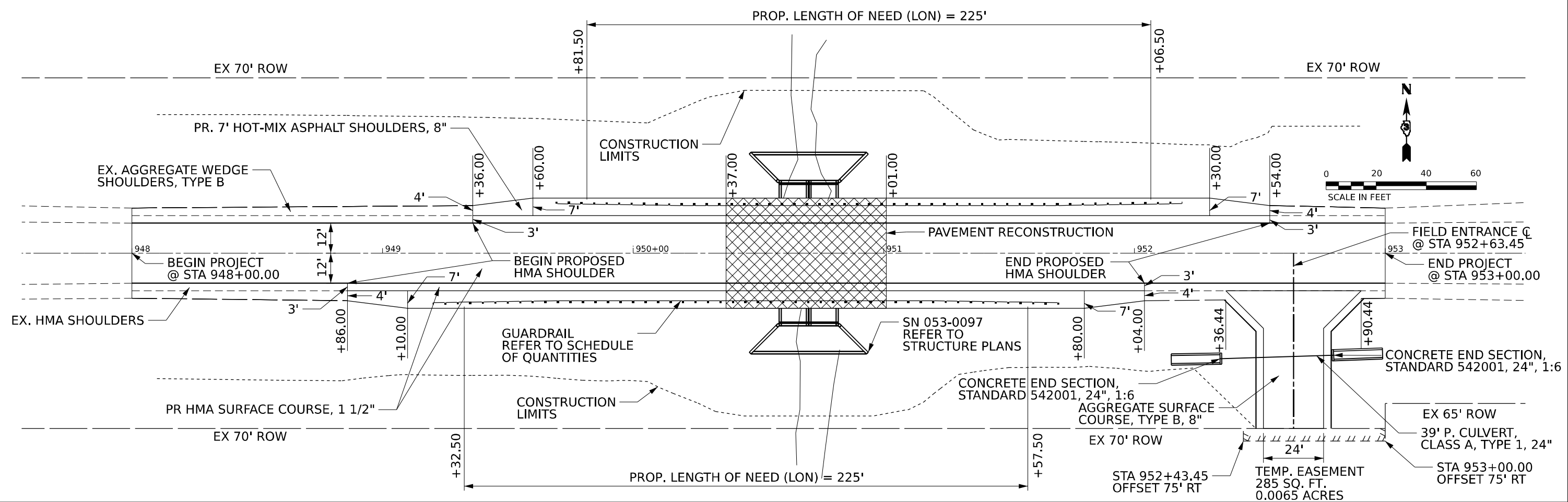
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

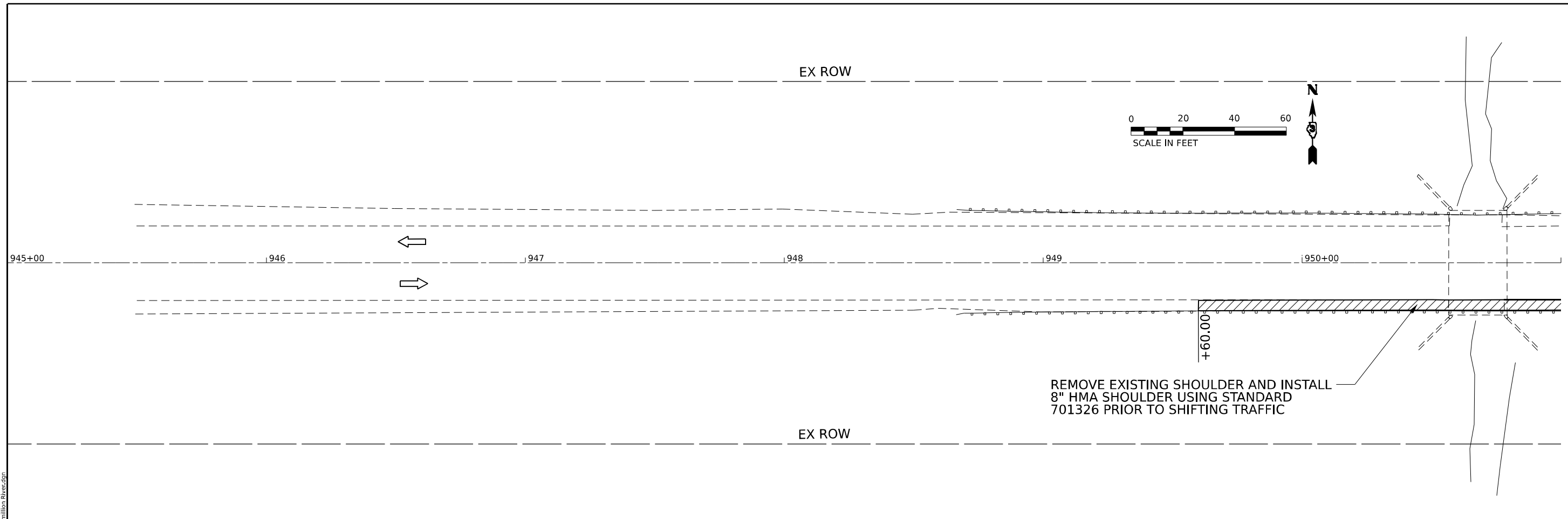
F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 13
CONTRACT NO. 66M28			ILLINOIS FED. AID PROJECT	

MODEL: US24_RR15_Sheet_US24_RR15_River4_Sheet.dwg
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 Model: US24_RR15_Sheet_US24_RR15_River4_Sheet.dwg
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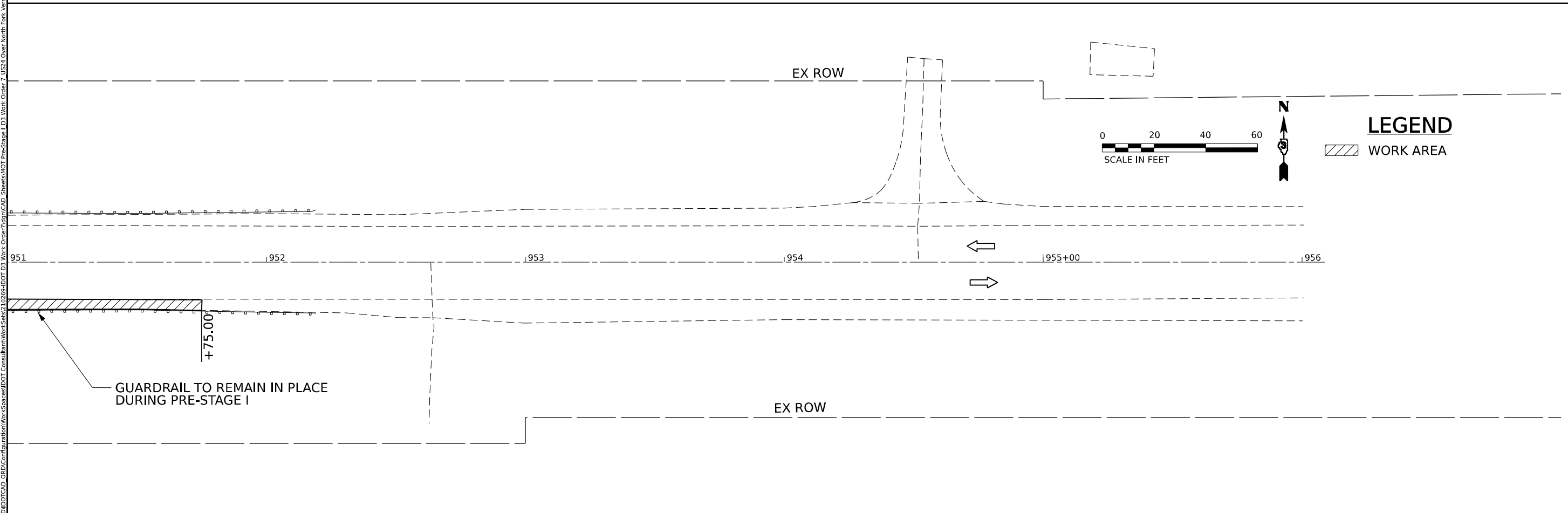


	USER NAME = tbarker	DESIGNED - TJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE US 24 OVER NORTH FORK VERMILLION RIVER			F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 15
	PLOT SCALE = 0.16666633 1/16"	CHECKED - JNH	REVISED -		SCALE: 20H:5V	SHEET 1	OF 1 SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 66M28		ILLINOIS FED. AID PROJECT
	PLOT DATE = 10/17/2023	DATE - 3/17/2023	REVISED -									

MODEL: MOT Pre-Stage I - MOT Pre-Stage I (Sheet)
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REMOVE EXISTING SHOULDER AND INSTALL 8" HMA SHOULDER USING STANDARD 701326 PRIOR TO SHIFTING TRAFFIC



GUARDRAIL TO REMAIN IN PLACE DURING PRE-STAGE I

LEGEND
 WORK AREA



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
DRAWN - TJB	REVISOR - _____	
PLOT SCALE = 0.16666633 1/1 in.	CHECKED - JNH	REVISOR - _____
PLOT DATE = 9/29/2023	DATE - 3/17/2023	REVISOR - _____

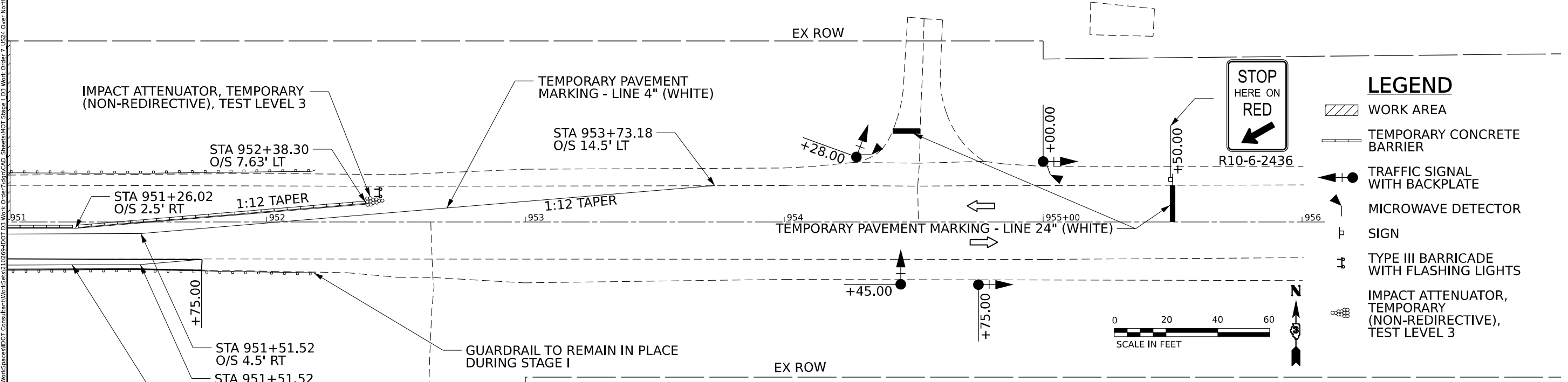
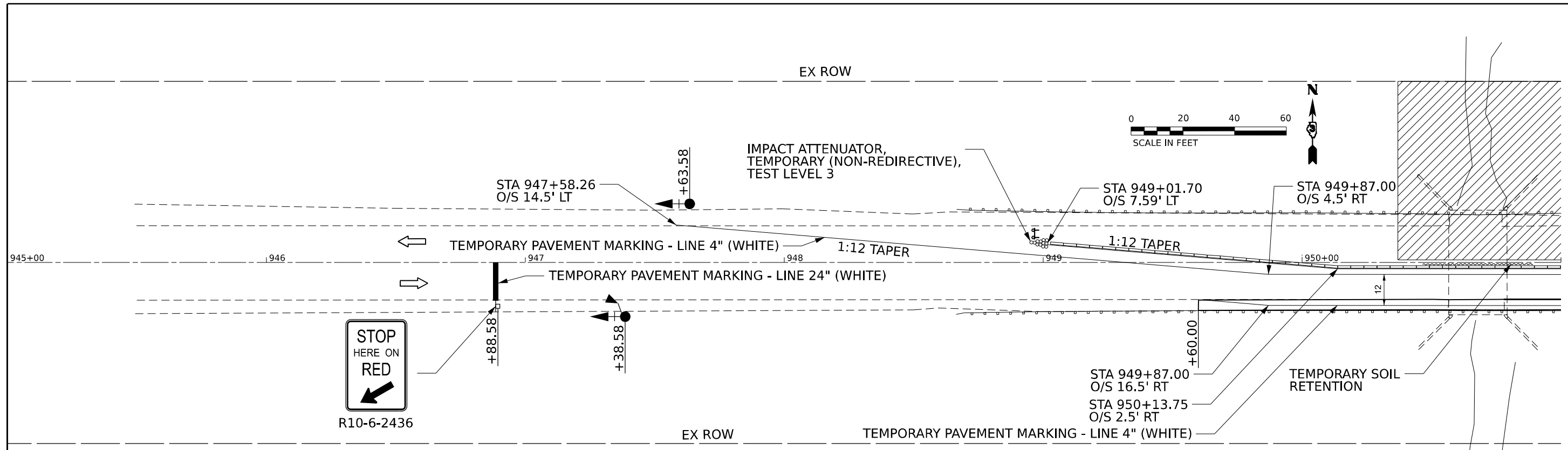
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 PRE-STAGE I**

SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	16
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

MODEL: MOT Stage 1 - MOT Stage 1 (Sheet)
 FILE NAME: C:\CAD\DOT\CAD_CDD\Construction\WorkSpace\DOT_317\24\DOT_317_24_Over_North_Fork_Vermillion_River.dwg



LEGEND

- WORK AREA
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGNAL WITH BACKPLATE
- MICROWAVE DETECTOR
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

*NOTE: SEE HIGHWAY STANDARD 701321 FOR INSTALLATION OF ADVANCED SIGNAGE, SIGNALS, AND TEMPORARY RUMBLE STRIPS



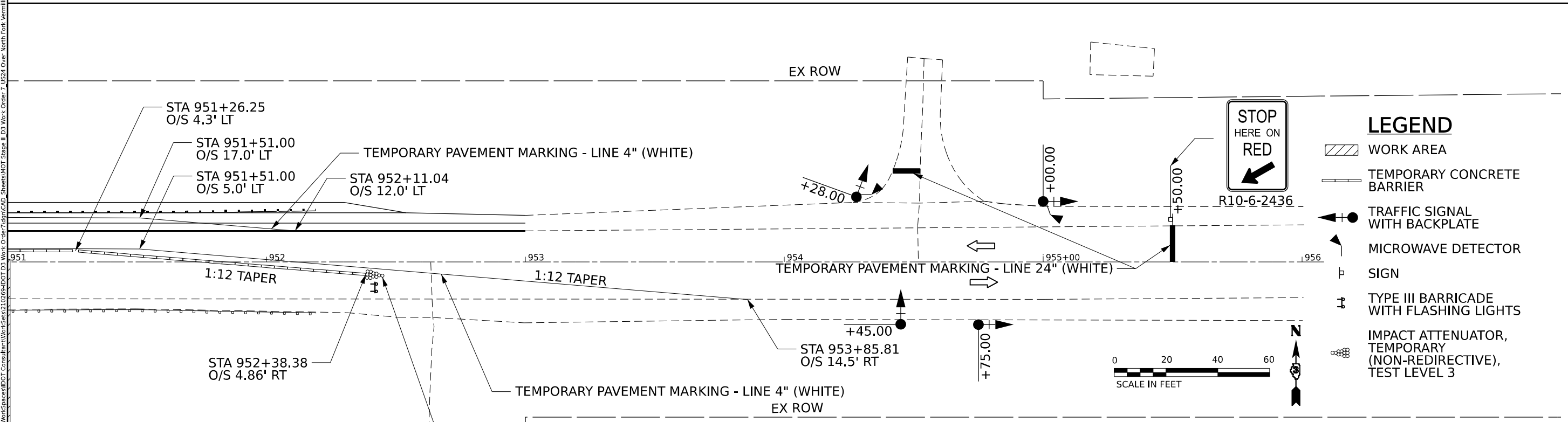
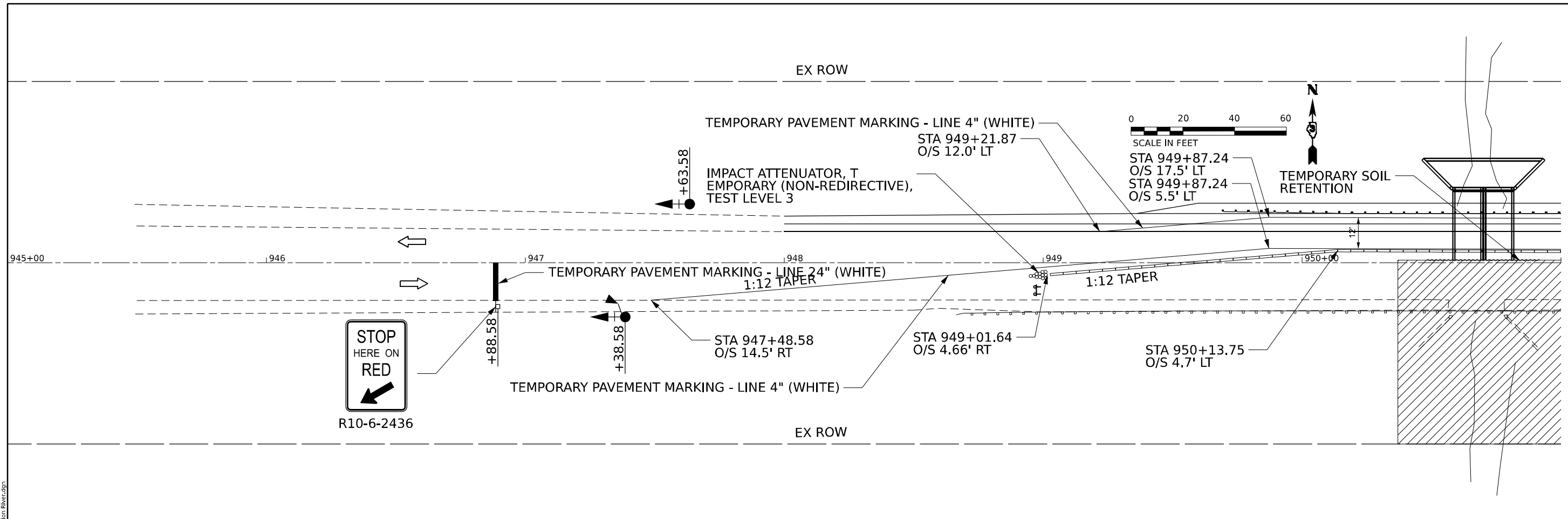
USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
DRAWN - TJB	REVISED - _____	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - JNH	REVISED - _____
PLOT DATE = 9/29/2023	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE I**

SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	17
			CONTRACT NO. 66M28	
ILLINOIS FED. AID PROJECT				



- LEGEND**
- WORK AREA
 - TEMPORARY CONCRETE BARRIER
 - TRAFFIC SIGNAL WITH BACKPLATE
 - MICROWAVE DETECTOR
 - SIGN
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

*NOTE: SEE HIGHWAY STANDARD 701321 FOR DETAILS NOT SHOWN AND TEMPORARY RUMBLE STRIP INFORMATION

MODEL: MOT Stage II - MOT Stage II (Sheet) FILE NAME: G:\CAD\DOT\CAD_CDD\Construction\WorkSpace\DOT_Construction\WorkSpace\DOT_Stage II_D3_WorkOrder7_JUS24_Over_North_Fork_Vermillion_River.dgn



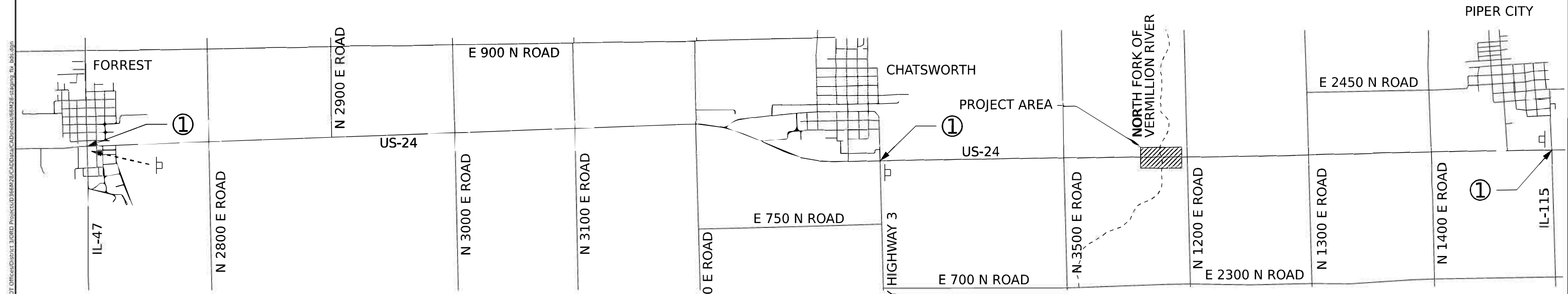
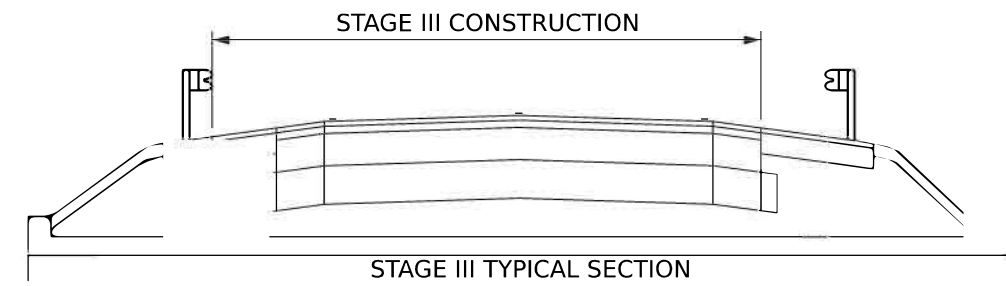
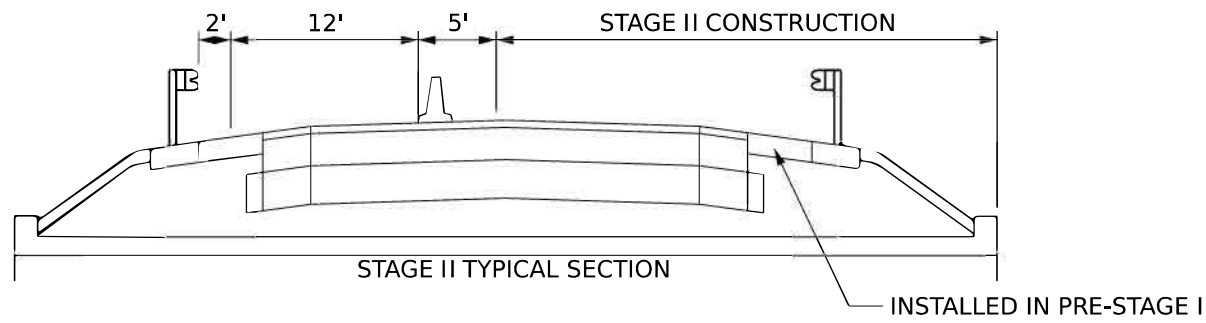
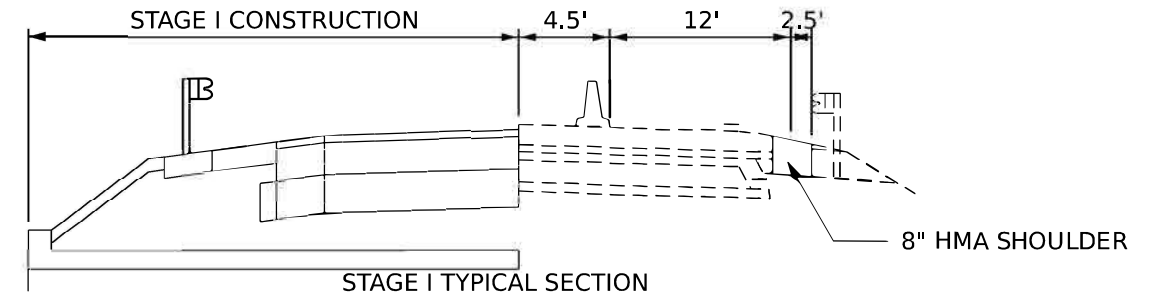
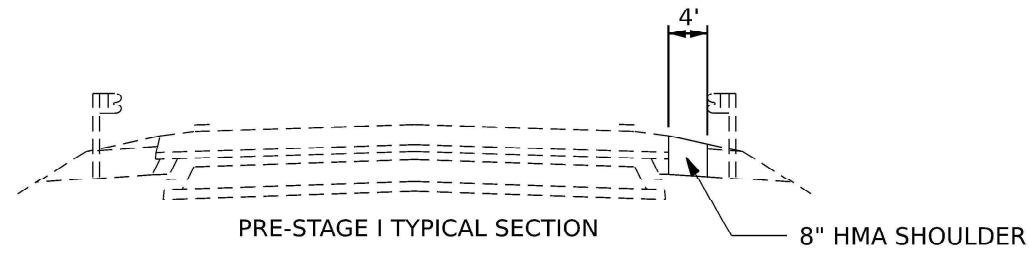
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PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE II**

SCALE: 1"=20' SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 18
			CONTRACT NO. 66M28	
ILLINOIS FED. AID PROJECT				



LEGEND

① INSTALL WIDTH RESTRICTIONS SIGNS ACCORDING TO SPECIAL PROVISION 701-6 FOUND ON ROADWAY DETAILS

MODEL: D:\dwg\...
 FILE NAME: ...



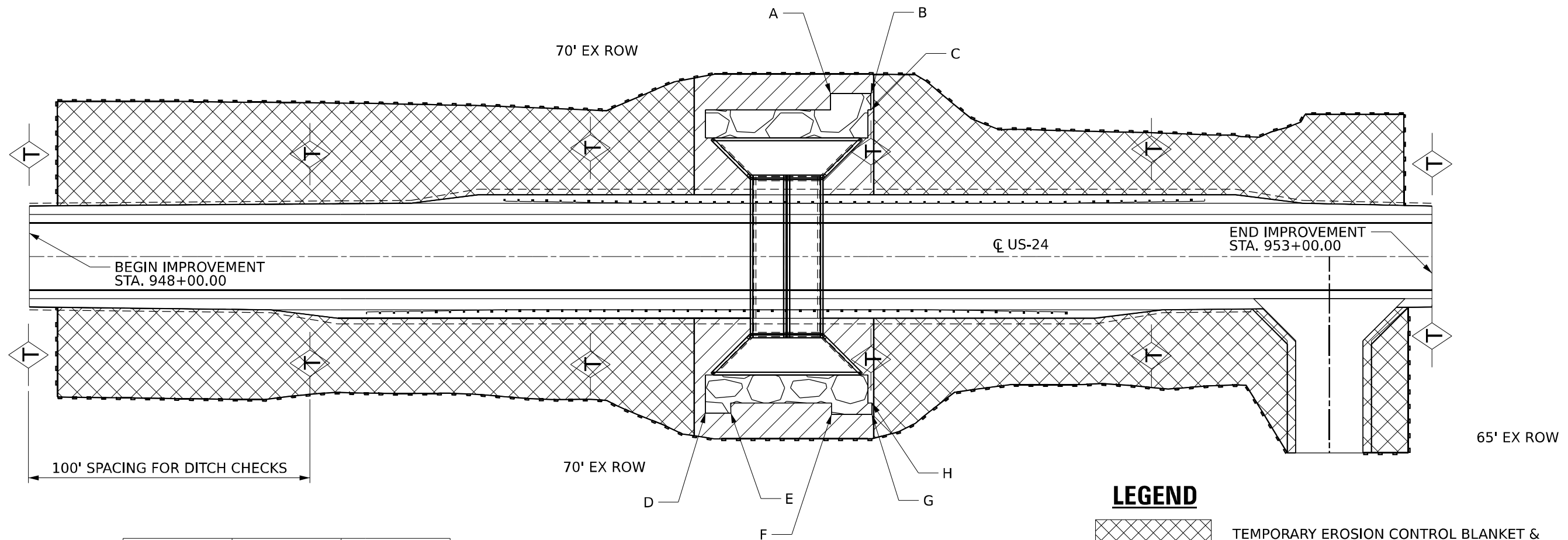
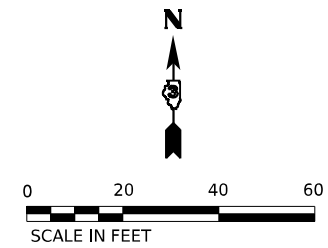
USER NAME = Cassandra.Nolasco	DESIGNED - TJB	REVISED -
DRAWN - TJB	REVISED -	
PLOT SCALE = 833.334' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 12/15/2023	DATE = 3/17/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
DETAILS


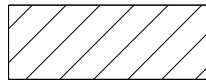



SCALE: NTS SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	19
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				



ID	STATION	OFFSET
A	950+85.59	58.13 LT
B	951+00.00	58.13 LT
C	951+00.00	52.25 LT
D	950+41.04	55.81 RT
E	950+50.07	55.81 RT
F	950+85.94	56.27 RT
G	951+00.39	56.27 RT
H	951+00.39	52.25 RT

LEGEND

-  TEMPORARY EROSION CONTROL BLANKET & TEMPORARY EROSION CONTROL SEEDING
-  TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET & TEMPORARY EROSION CONTROL SEEDING
-  PROPOSED STONE RIRRAP, CLASS A4
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

MODEL: Erosion Control Plan - Erosion Control Plan (Sheet)
 FILE NAME: C:\CAD\DOT\CAD_CDD\Comparative\Workspaces\DOT_D3_Work\Order7\den\CAD_Sheets\Erosion Control Plan_D3_Work_Order7_US24_Over_North_Fork_Vermillion_River.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL
US 24 OVER NORTH FORK VERMILLION RIVER**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	20
CONTRACT NO. 66M28				

ILLINOIS FED. AID PROJECT
Long Section Number



PARCEL 30223001TE
 COORDINATES SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83 (2011)

STATION AND OFFSETS SHOWN HEREON ARE REFERENCED TO THE EXISTING CENTERLINE OF THE EXISTING TRANSIT LINE F.A. RT-9 (US-24). STATIONING IS BASED ON THE RECORD POT STATION 906+20.98 AS SHOWN ON DEDICATION PER DOC. NO. 215061 (BOOK 243 PAGE 263).

COORDINATE TABLE - U.S. ROUTE 24				
PT.NO.	STATION	OFFSET	NORTHING	EASTING
136	952+43.45	70.00' RT.	1,486,166.9617	1,009,388.1506
137	952+43.45	75.00' RT.	1,486,161.9617	1,009,388.1497
139	952+83.45	70.00' RT.	1,486,166.9543	1,009,428.1506
138	952+83.45	75.00' RT.	1,486,161.9543	1,009,428.1497
141	952+83.45	16.60' LT.	1,486,253.5542	1,009,428.1667

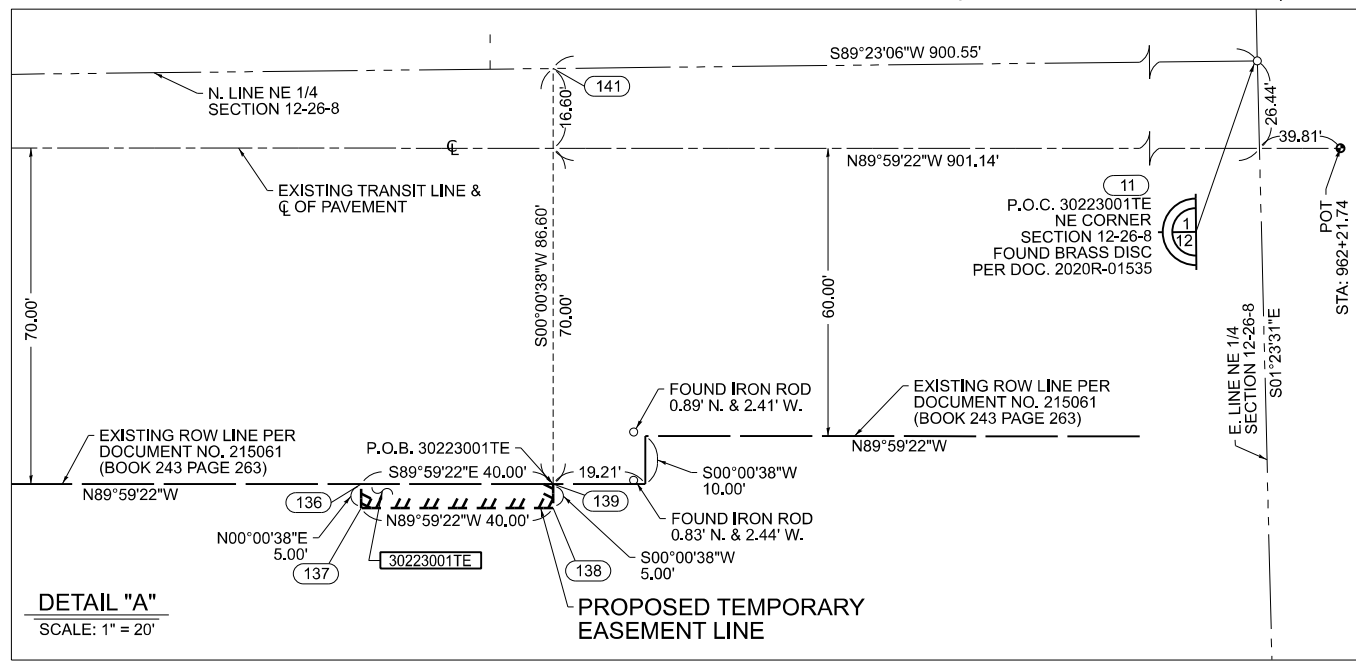
PROJECT COORDINATES
 ILLINOIS STATE PLANE,
 EAST ZONE, NAD83 (2011)

SECTION CORNERS		
PT.NO.	NORTHING	EASTING
11	1,486,263.2207	1,010,328.6627
13	1,486,234.6797	1,007,669.8657

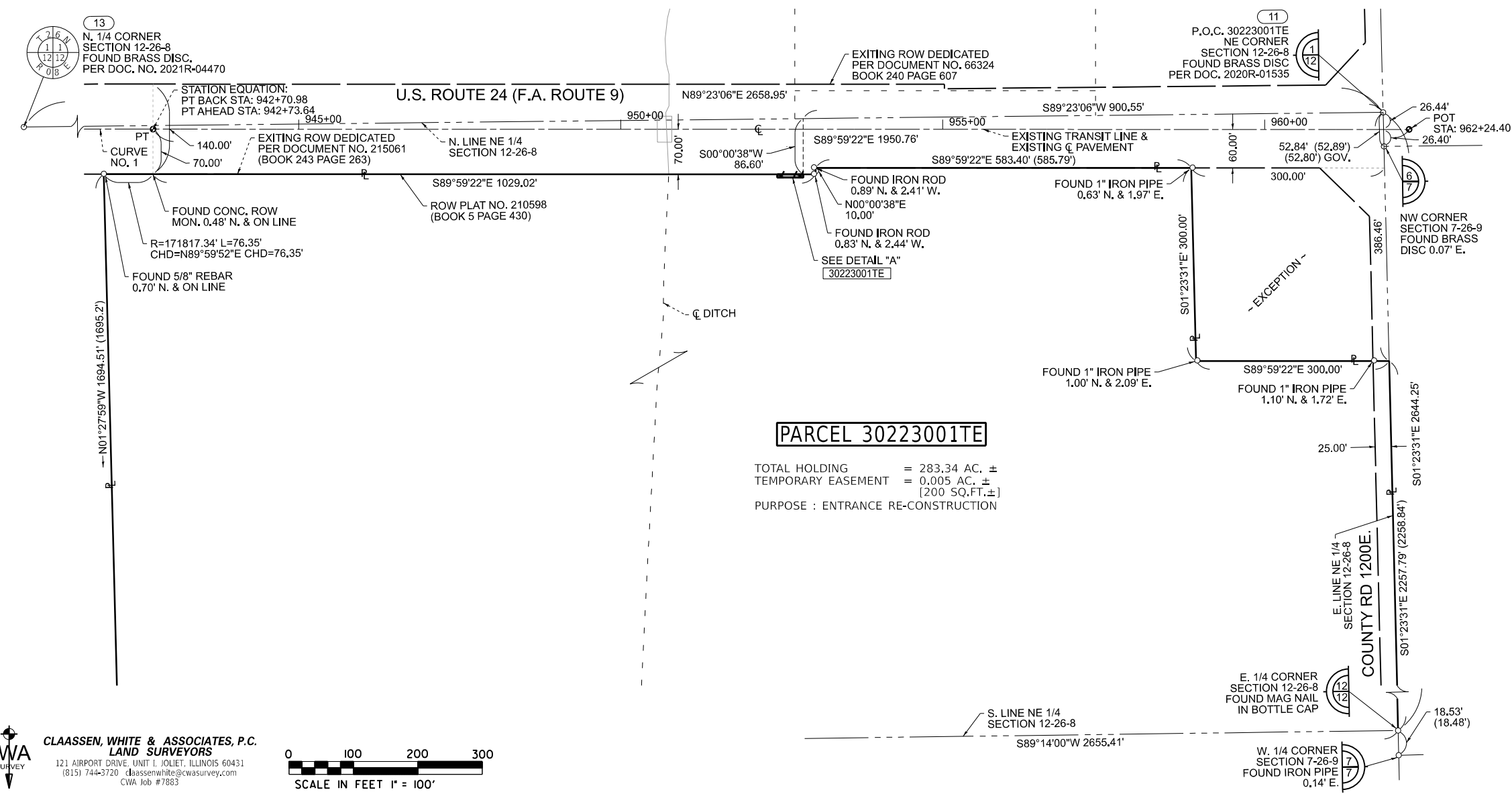
EXISTING TRANSIT LINE &
 EXISTING CENTERLINE OF PAVEMENT
 US ROUTE 24 (US ROUTE 9)
 CURVE NO. 1

P.I. STA= 929+46.00
 Δ= 00°53'00"
 D= 2°29'28"
 R= 171,887.34'
 T= 1325.02'
 L= 2650.00'
 E= 5.11'

(110) P.C. STA= 916+20.98
 (113) P.T. STA= 942+70.98 (BACK)
 P.T. STA=942+73.64 (AHEAD)



DETAIL "A"
 SCALE: 1" = 20'



PARCEL 30223001TE

TOTAL HOLDING = 283.34 AC. ±
 TEMPORARY EASEMENT = 0.005 AC. ±
 [200 SQ.FT.±]
 PURPOSE : ENTRANCE RE-CONSTRUCTION

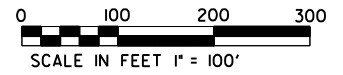
NOTE: GRID BEARINGS AND DISTANCES SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, (GRID) EAST ZONE, (NAD-83, 2011 ADJ.). ALL AREAS ARE BASED ON GROUND MEASUREMENTS
 COMBINED FACTOR = 0.99994624

I, DAVID A. CLAASSEN, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF US-24 WAS MADE BY ME OR UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



BY *David A. Claassen*
 DAVID A. CLAASSEN, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2962 (EXPIRES NOV. 2024) DATED 11/01/2023

CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
 LAND SURVEYORS
 121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
 (815) 744-3720 dclaassenwhite@cwasurvey.com
 CWA Job #7883



USER NAME = JASON SHIBLEY	DESIGNED - _____	REVISED - _____
DRAWN - JLS	CHECKED - DAC	DATE - 10/23/2023
PLOT SCALE = 1" = 100'	REVISOR - _____	REVISOR - _____
PLOT DATE = 10/23/2023	REVISOR - _____	REVISOR - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

PROJECT	JOB NO. R-93-002-23	COUNTY	TOTAL SHEETS	SHEET NO.
US-24 @ STREAM, 2.8MI W. OF IL-115	STA. 952+43.45 TO STA. 952+83.45	LIVINGSTON	51	21
SCALE: 1"=100'	SHEET 2 OF 2 SHEETS	ILLINOIS	FED. AID PROJECT	

B.M. 1 Cut " " top of SW wingwall SN 053-0097, Sta 950+58.03, 20.25' RT Elev 713.40

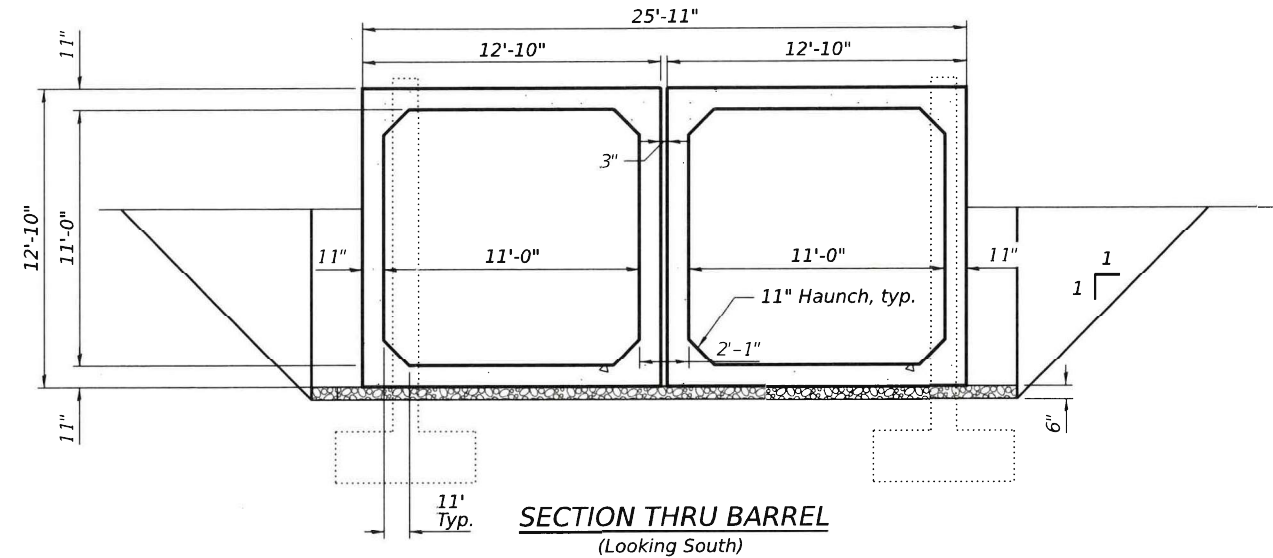
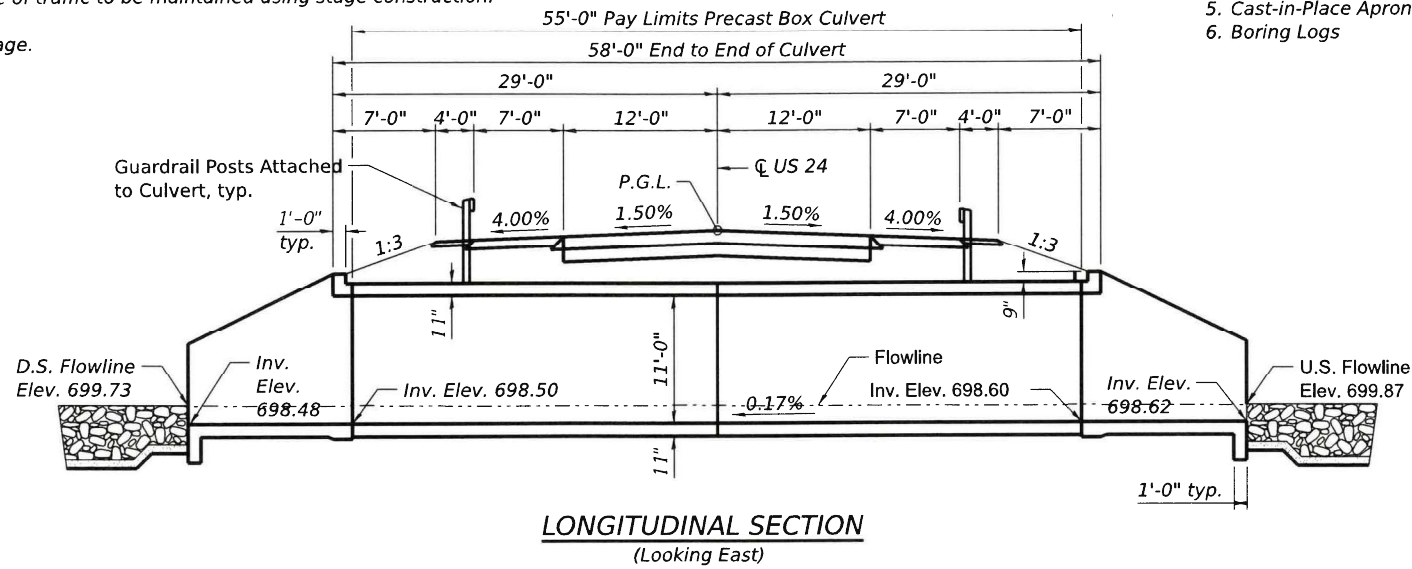
Existing Structure: No. 053-0097 built in 1951, as a single span concrete slab bridge. 22'-6" bk-to-bk of abutments. 40'-4" out-to-out width.

One lane of traffic to be maintained using stage construction.

No Salvage.

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Staging Details
4. Cast-in-Place Apron End Section
5. Cast-in-Place Apron End Section Details
6. Boring Logs



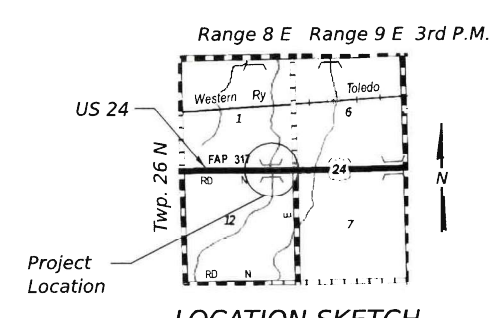
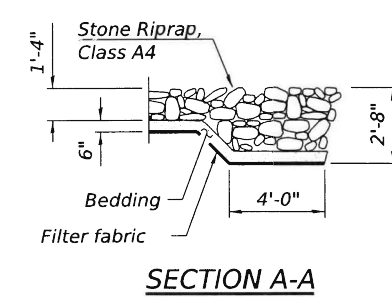
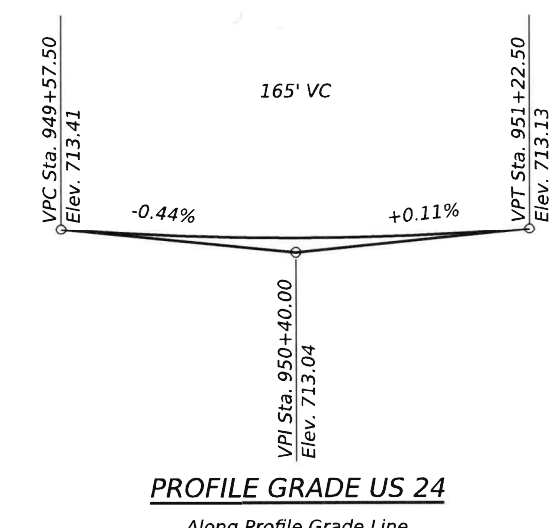
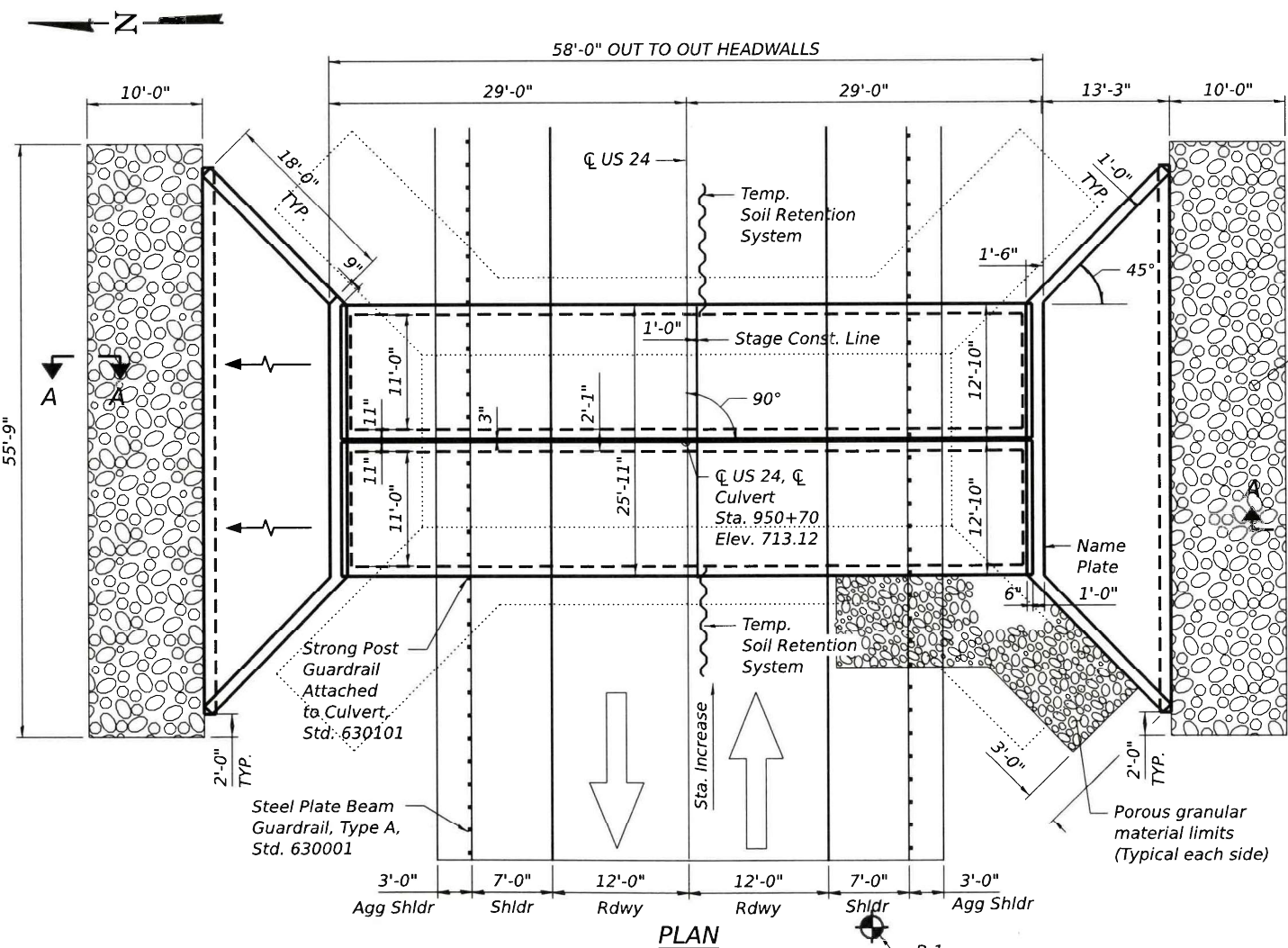
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)

PRECAST UNITS
f_c = 5,000 psi
f_y = 65,000 psi (Welded Wire Fabric)
f_y = 60,000 psi (Reinforcement)



STATE OF ILLINOIS
DAVID BOOHER
4775
SPRINGFIELD, ILL.
LICENSED STRUCTURAL ENGINEER

David Booher, Illinois S.E. 081-004775
Expires 11/30/2024

9-28-23

GENERAL PLAN & ELEVATION
FAP ROUTE 317 (US24)
OVER N. FK. VERMILION R. TRIB
SECTION [(24BR2)BR]ES
LIVINGSTON COUNTY
STA. 950+70
STRUCTURE NO. 053-2042

MODEL: Default
FILE NAME: S:\2021\12\11\082 - PTB 201-27 D3-Wght-Variou (6) ILLIWO #7 - Box Culvert\CADD\CADD Sheets\0532042-66M28-001-GPE.dgn
9/28/2023 12:22:55 PM

<p>QUIGG ENGINEERING INC</p>	USER NAME = APaul	DESIGNED = DB	REVISED =	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>GENERAL PLAN AND ELEVATION STRUCTURE NO. 053-2042</p>	F.A.P. RTE. = 317	SECTION = [(24BR2)BR]ES	COUNTY = LIVINGSTON	TOTAL SHEETS =	SHEET NO. =
	0532042-66M28-001-GPE.dgn	CHECKED =	REVISED =			CONTRACT NO. 66M28				
	PLOT SCALE = 15,000' / in.	DRAWN = JS	REVISED =							
	PLOT DATE =	CHECKED =	REVISED =							
SHEET 1 OF 6 SHEETS						ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	585
Stone Riprap, Class A4	Sq Yd	125
Filter Fabric	Sq Yd	125
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	435
Reinforcement Bars, Epoxy Coated	Pound	7810
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	79.4
Precast Concrete Box Culverts 11' x 11'	Foot	110
Geocomposite Wall Drain	Sq Yd	175
Strong Post Guardrail Attached to Culvert	Foot	52
Membrane Waterproofing System for Buried Structures	Sq Yd	175
Temporary Soil Retention System	Sq Ft	477

WATERWAY INFORMATION

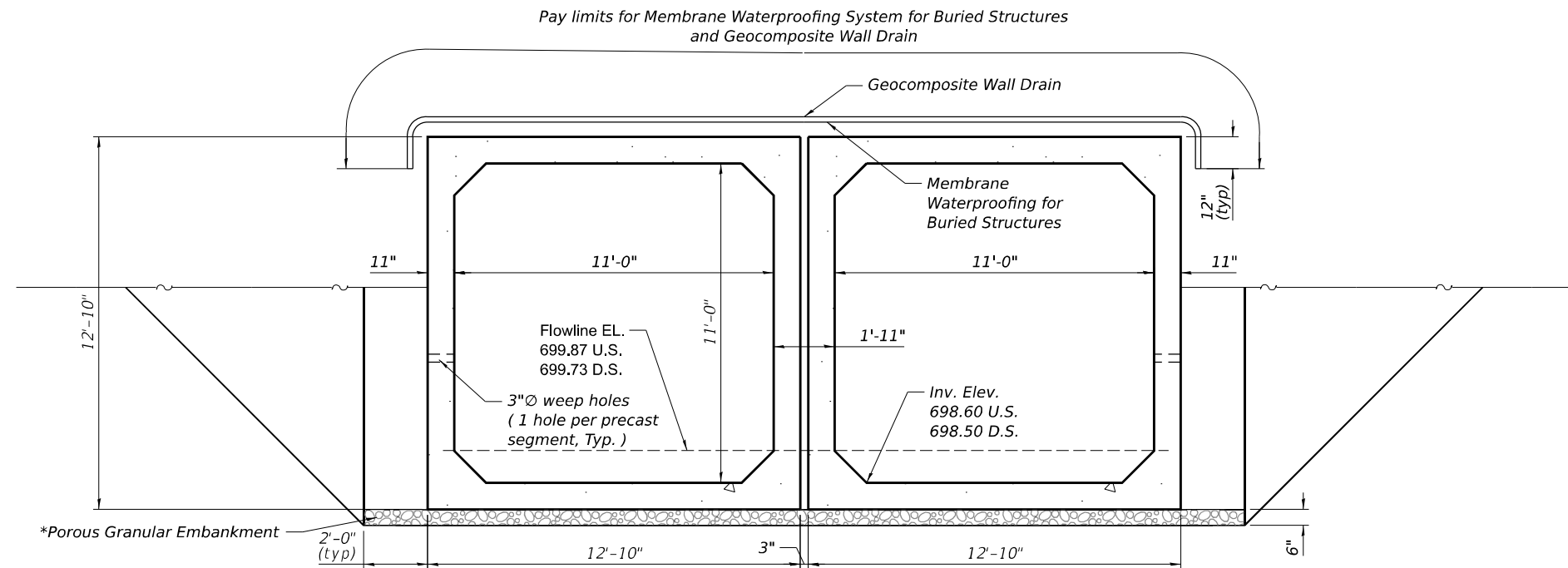
Flood		Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
				Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
		10	224	90	104	704.8	0.0	0.0	704.8	704.8
Design		50	354	114	128	706.0	0.0	0.0	706.0	706.0
Base		100	409	121	135	706.4	0.0	0.0	706.4	706.4
Scour Check		200	467	127	141	706.7	0.0	0.0	706.7	706.7
Max. Calc.		500	543	134	148	707.0	0.1	0.0	707.1	707.0

Drainage Area = 1.4 Sq Mi
 Exist. Overtopping Elev. 713.10 @ Sta. 951+50
 Prop. Overtopping Elev. 713.11 @ Sta. 951+50

10 Yr. Outlet Velocity from Exist. Structure = 2.6 ft/s
 10 Yr. Outlet Velocity from Prop. Structure = 2.7 ft/s

GENERAL NOTES

- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
- The design fill height for this box is 2.75 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.
- Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.
- Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
- Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- New culvert barrels shall be set 1.0' minimum below the streambed flowline.



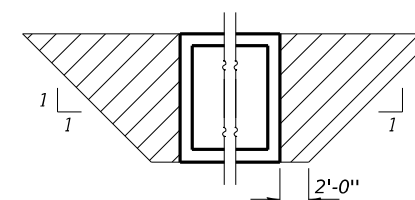
SECTION THRU CULVERT

(Looking South);
 similar to section on Sheet 1

* Included in the cost of
 Precast Concrete Box Culvert

STATION 950+70
 BUILT 202_ BY
 STATE OF ILLINOIS
 FAP RT 317 SEC [(24BR2)BR]ES
 LOADING HL-93
 STRUCTURE NO. 053-2042

NAME PLATE
 See Std. 515001



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
 (Hatched area)

MODEL: Default
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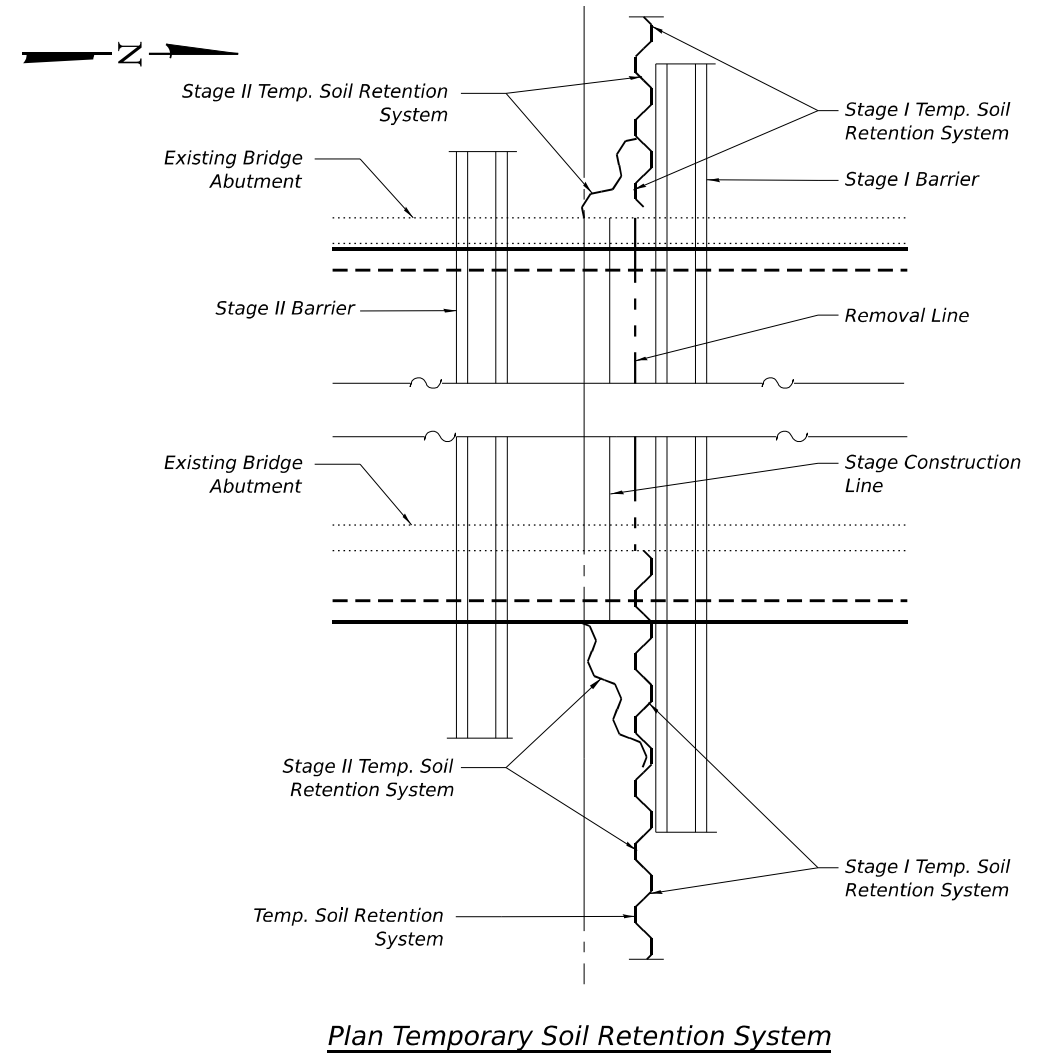
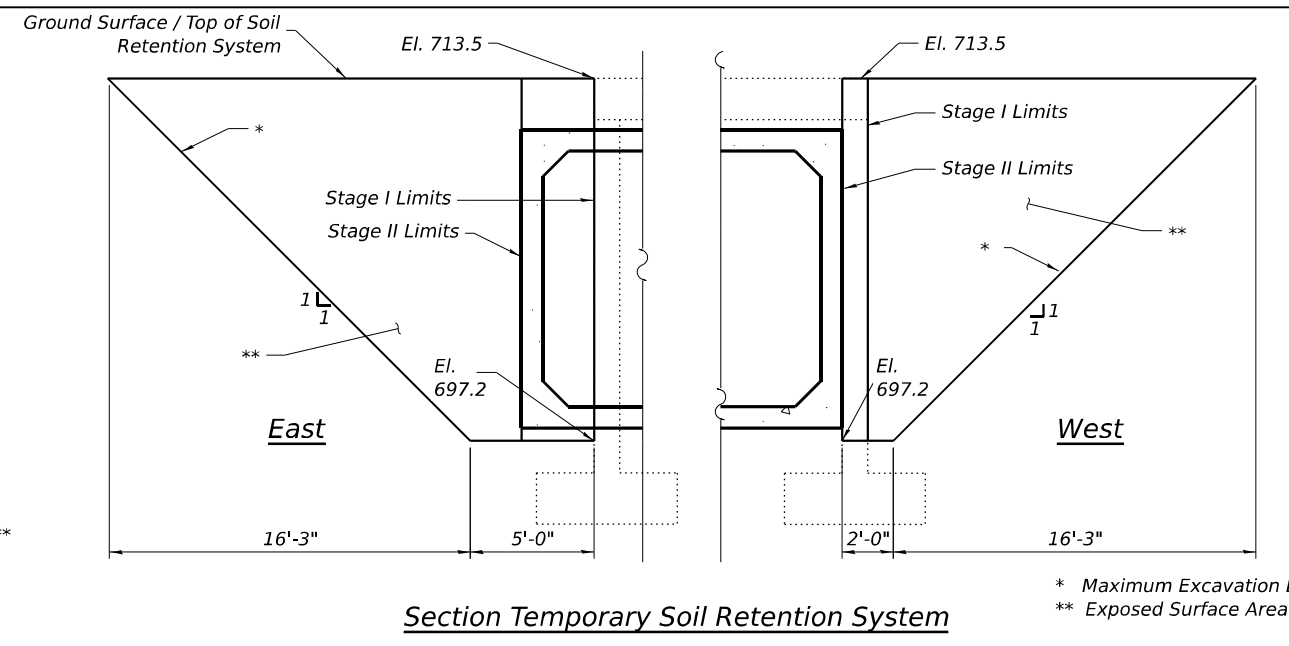
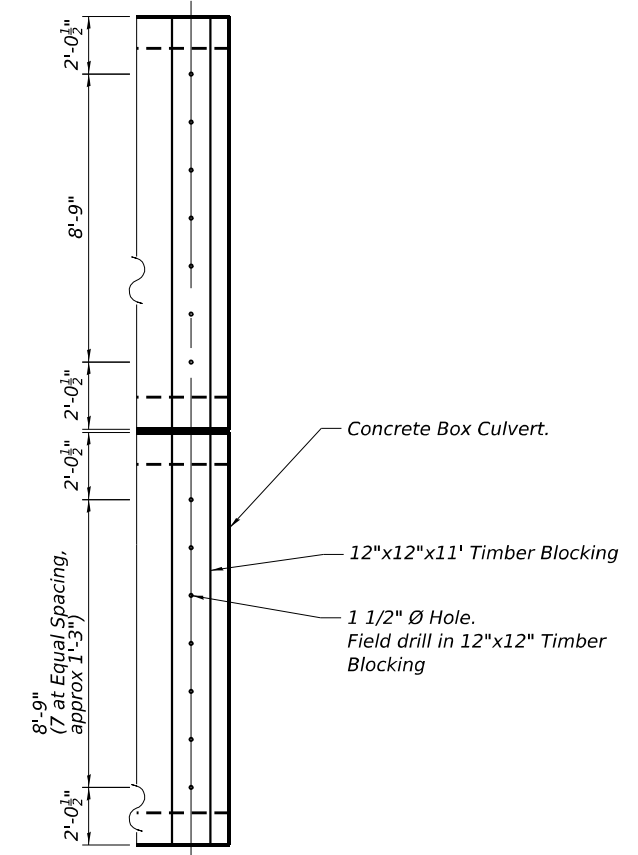
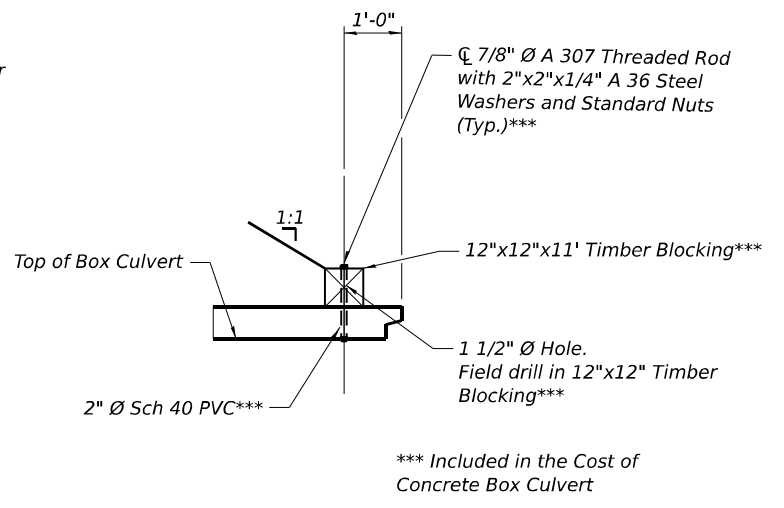
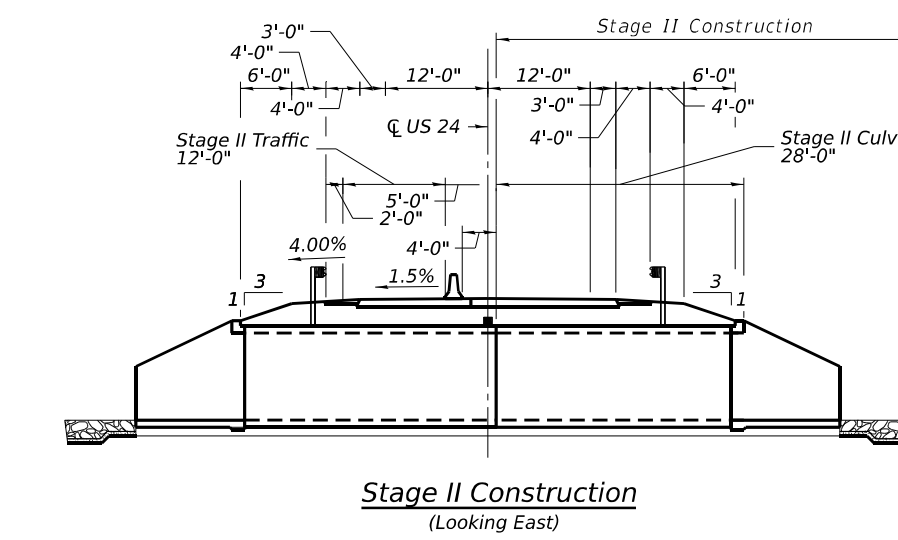
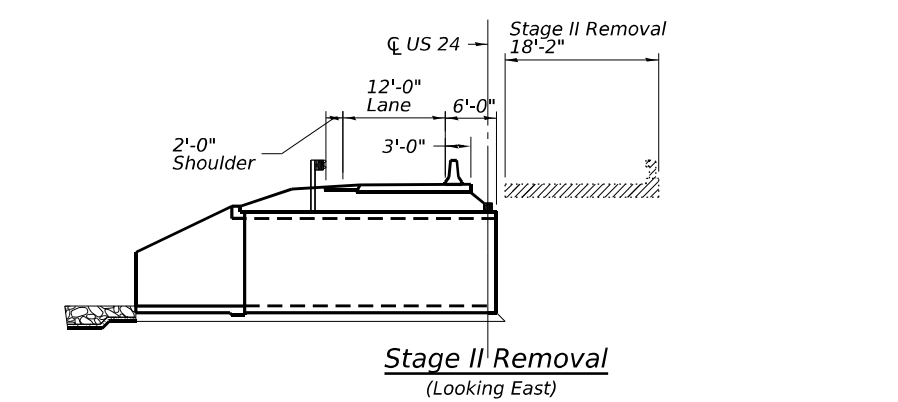
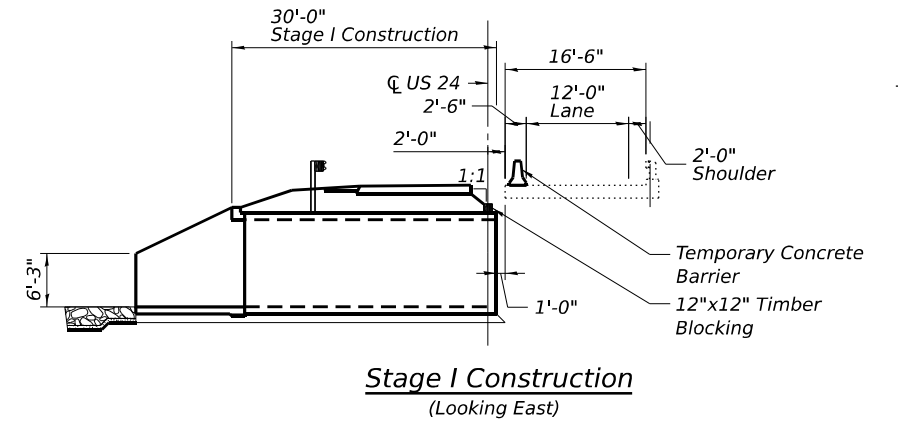
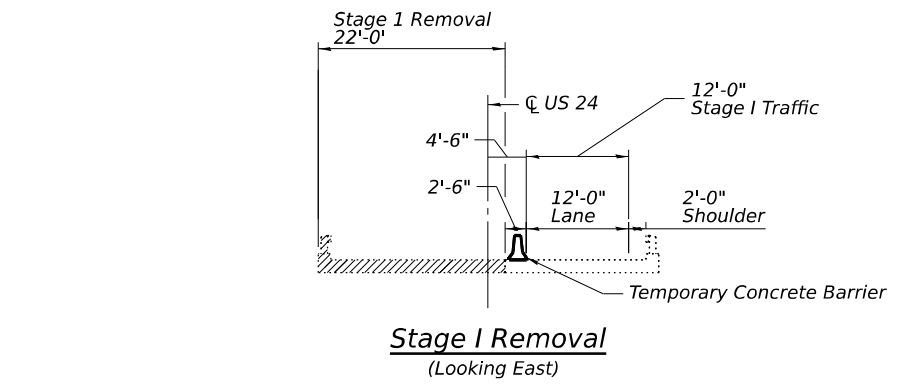
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA
 STRUCTURE NO. 053-2042

SHEET 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]ES	LIVINGSTON		
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M28	

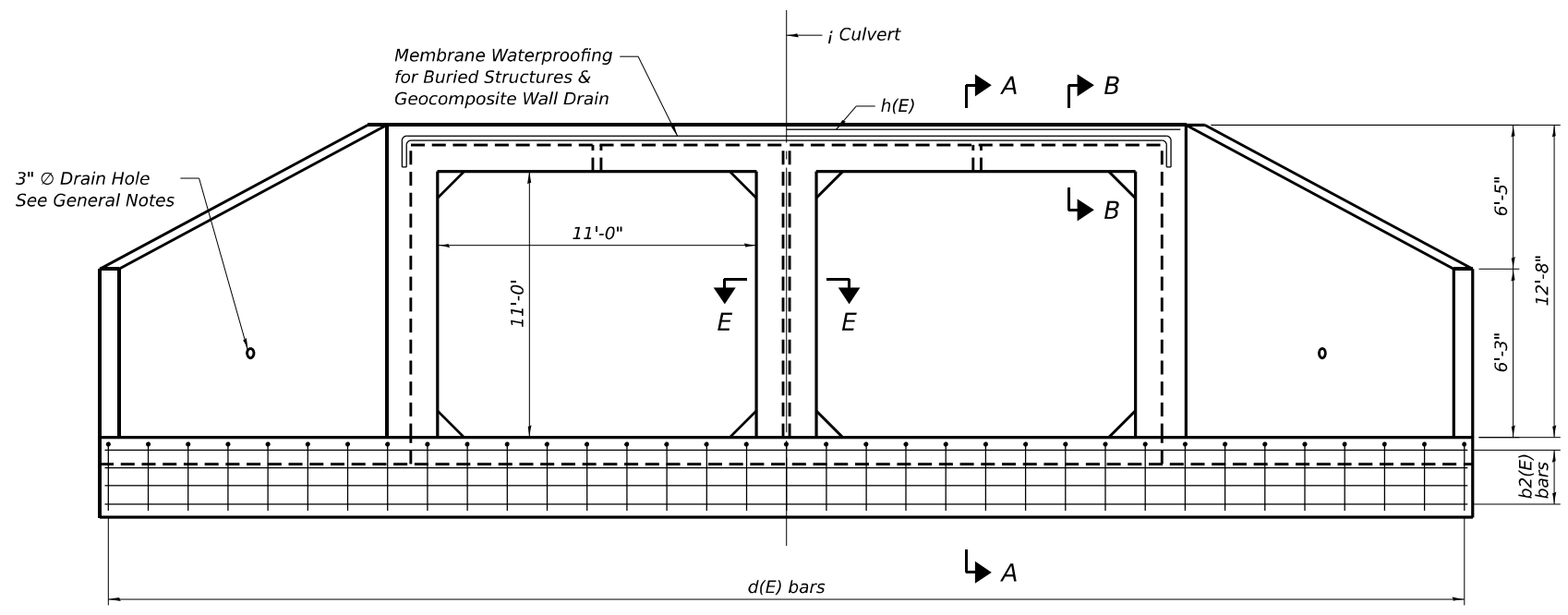
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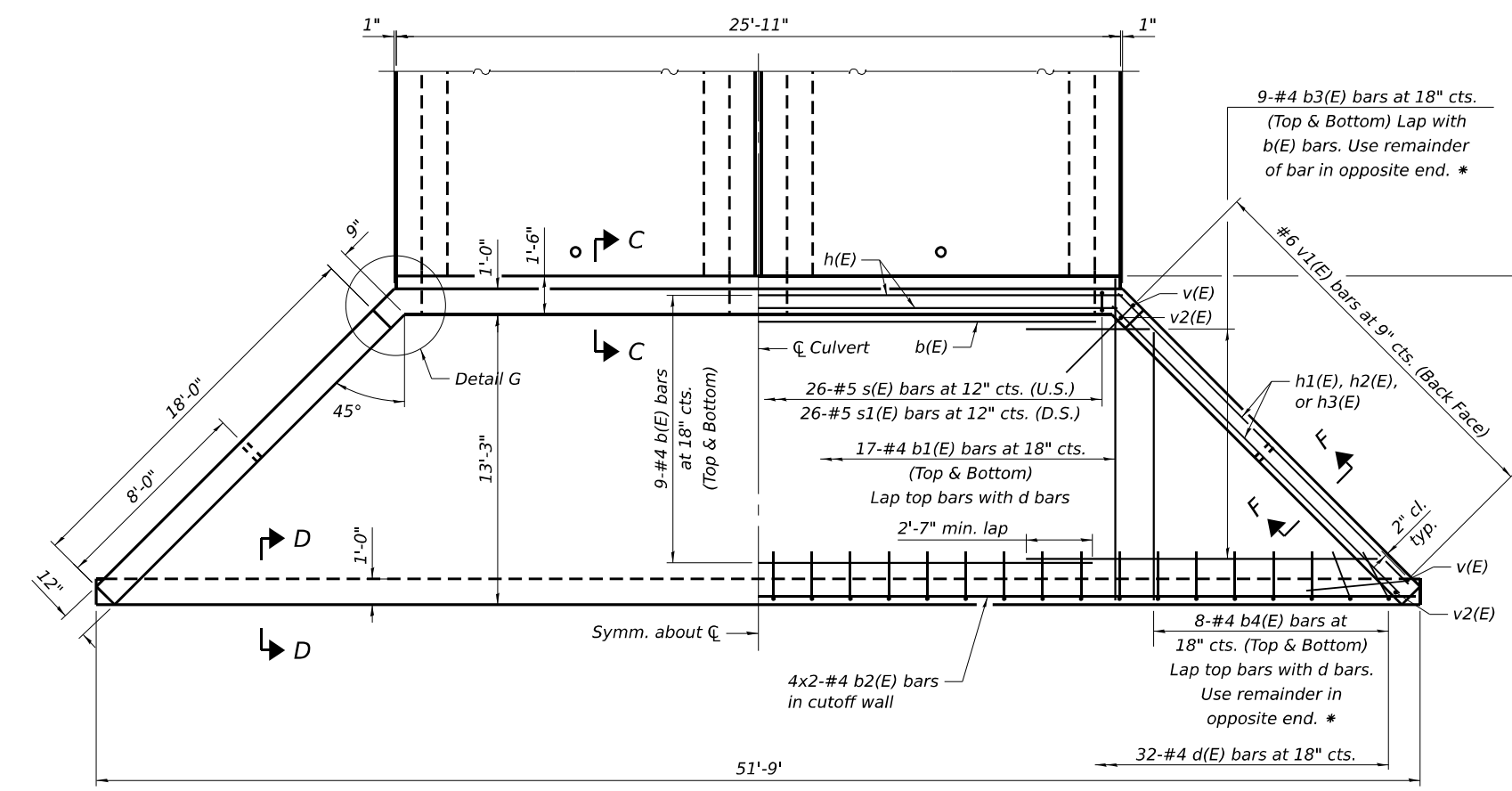
Legend
 Indicates Removal of Existing Structure.

 QUIGG ENGINEERING INC	USER NAME = APaul 0532042-66M28-003-Staging.dgn PLOT SCALE = 15,000' / in. PLOT DATE =	DESIGNED - DB CHECKED - DRAWN - AP CHECKED -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING STRUCTURE NO. 053-2042 SHEET 3 OF 6 SHEETS	F.A.P. RTE. 317 SECTION [(24BR2)BR/ES COUNTY LIVINGSTON CONTRACT NO. 66M28	TOTAL SHEETS SHEET NO.
						ILLINOIS FED. AID PROJECT	

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END ELEVATION



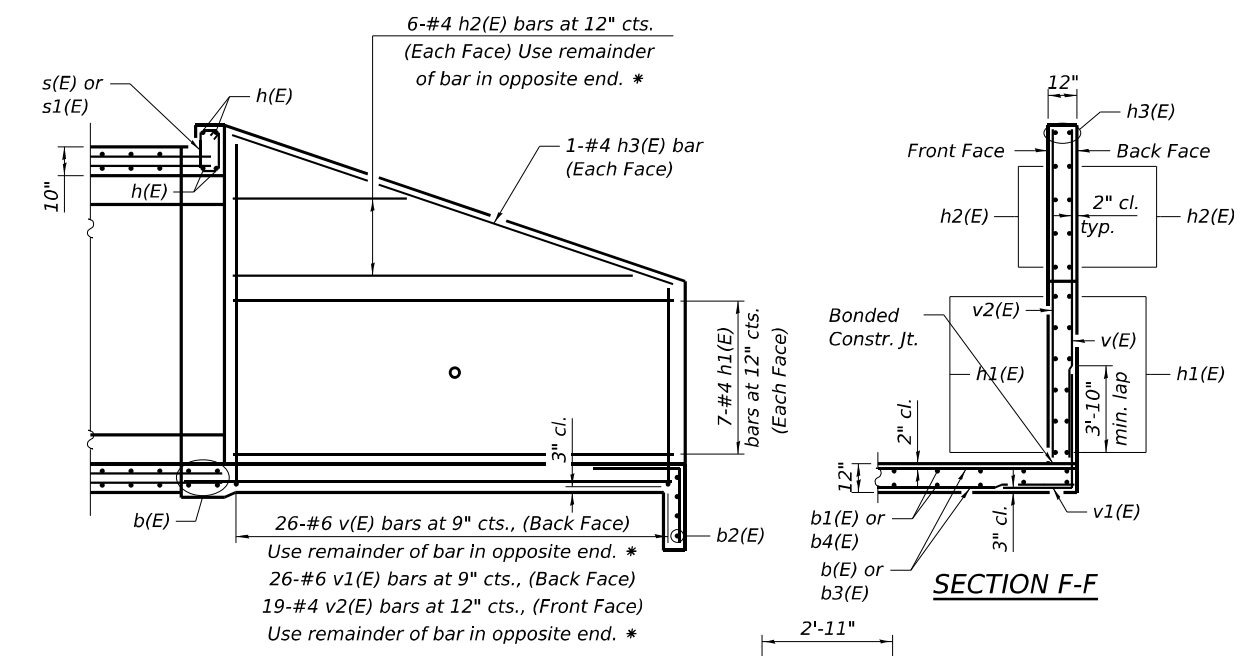
PLAN

See Sheet 5 of 6 for Section B-B, Section C-C, Section E-E, and Detail G.

MINIMUM BAR LAP

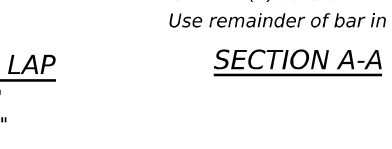
#4 bar = 2'-7"
 #6 bar = 3'-10"

* See bar cutting diagram

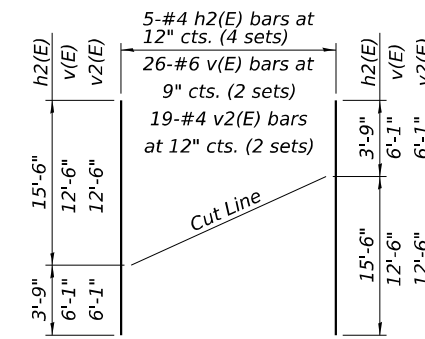


SECTION A-A

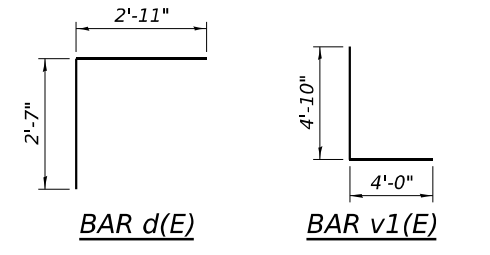
SECTION F-F



**BAR b3(E) & b4(E)
CUTTING DIAGRAM**

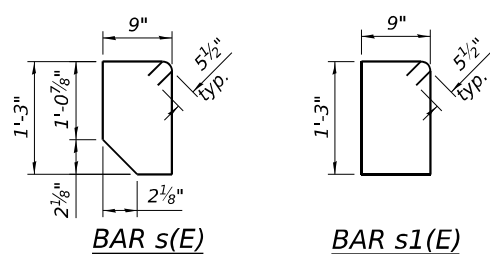


**BAR h2(E), v(E), & v2(E)
CUTTING DIAGRAM**



BAR d(E)

BAR v1(E)



BAR s(E)

BAR s1(E)

BILL OF MATERIAL - 2 APRONS

Bar	No.	Size	Length	Shape	
b(E)	36	#4	25'-6"	—	
b1(E)	68	#4	14'-1"	—	
b2(E)	16	#4	26'-9"	—	
b3(E)	36	#4	21'-0"	—	
b4(E)	36	#4	14'-2"	—	
d(E)	72	#4	5'-6"	└	
h(E)	8	#8	25'-6"	—	
h1(E)	56	#4	18'-4"	—	
h2(E)	20	#4	19'-3"	—	
h3(E)	8	#4	19'-1"	—	
s(E)	26	#5	4'-10"	□	
s1(E)	26	#5	4'-11"	□	
v(E)	52	#6	18'-7"	—	
v1(E)	104	#6	8'-10"	└	
v2(E)	38	#4	18'-7"	—	
Item				Unit	Total
Reinforcement Bars, Epoxy Coated				Pound	7,810
Concrete Box Culverts				Cu. Yd.	79.4



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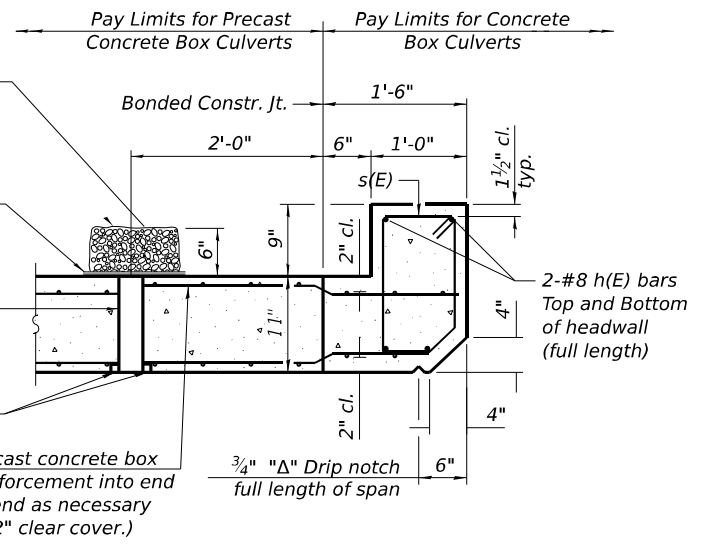
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE APRON END SECTION
 STRUCTURE NO. 053-2042

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]ES	LIVINGSTON		
				CONTRACT NO. 66M28
ILLINOIS FED. AID PROJECT				

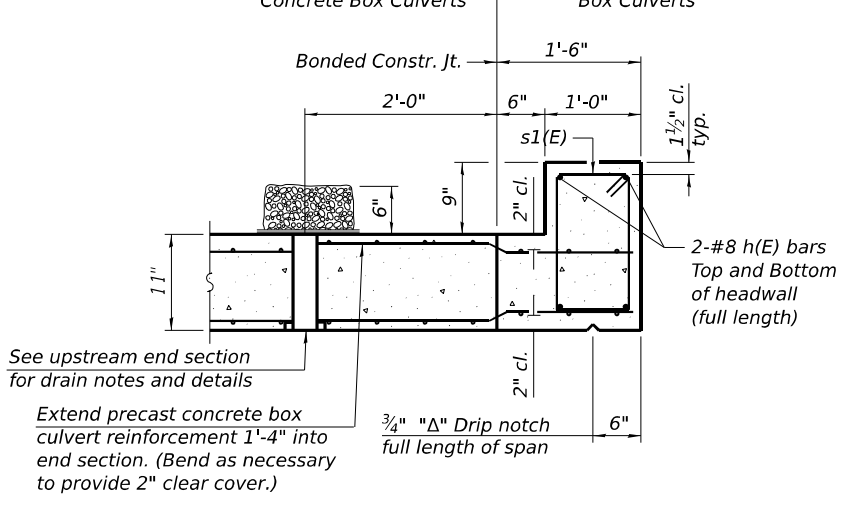
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 5/31/2023 5:05:54 PM

12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.
 Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic.
 3" Ø PVC drain cast with the concrete (Adjust location to clear reinforcement)
 1/2" Square foam blockout around PVC drain (to be removed with formwork)

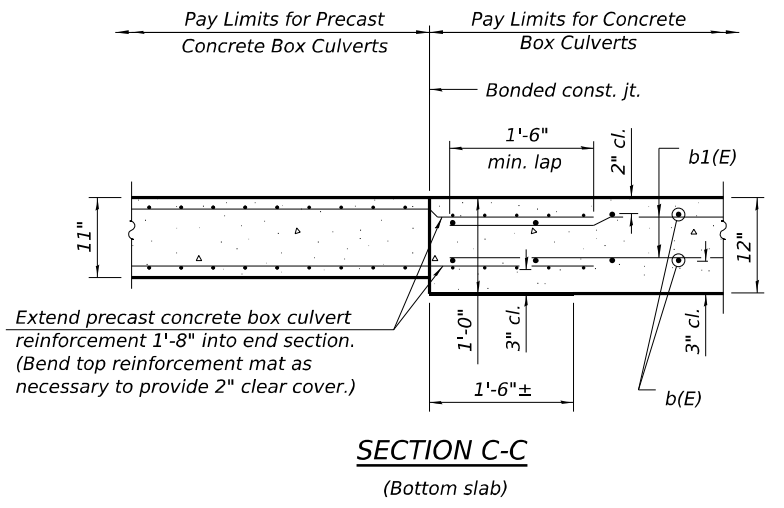


SECTION B-B
(Top slab at upstream end)

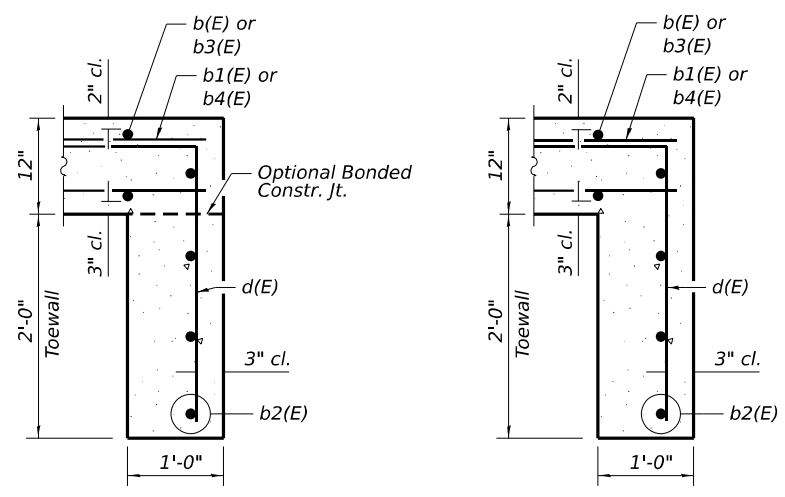
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



SECTION B-B
(Top slab at downstream end)



SECTION C-C
(Bottom slab)



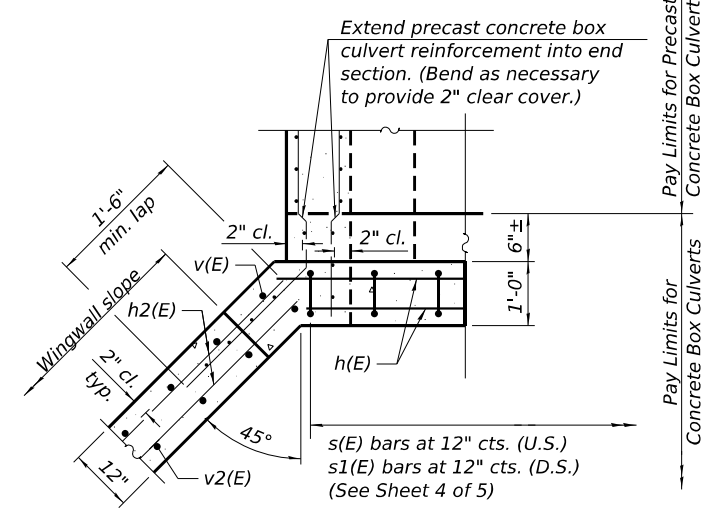
SECTION D-D

ALT. SECTION D-D

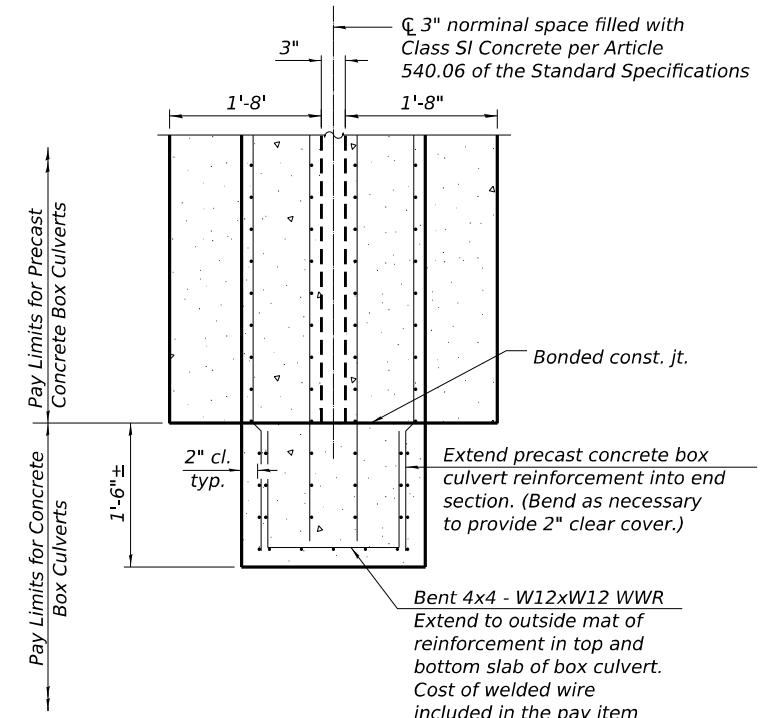
TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:
If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



DETAIL G



SECTION E-E



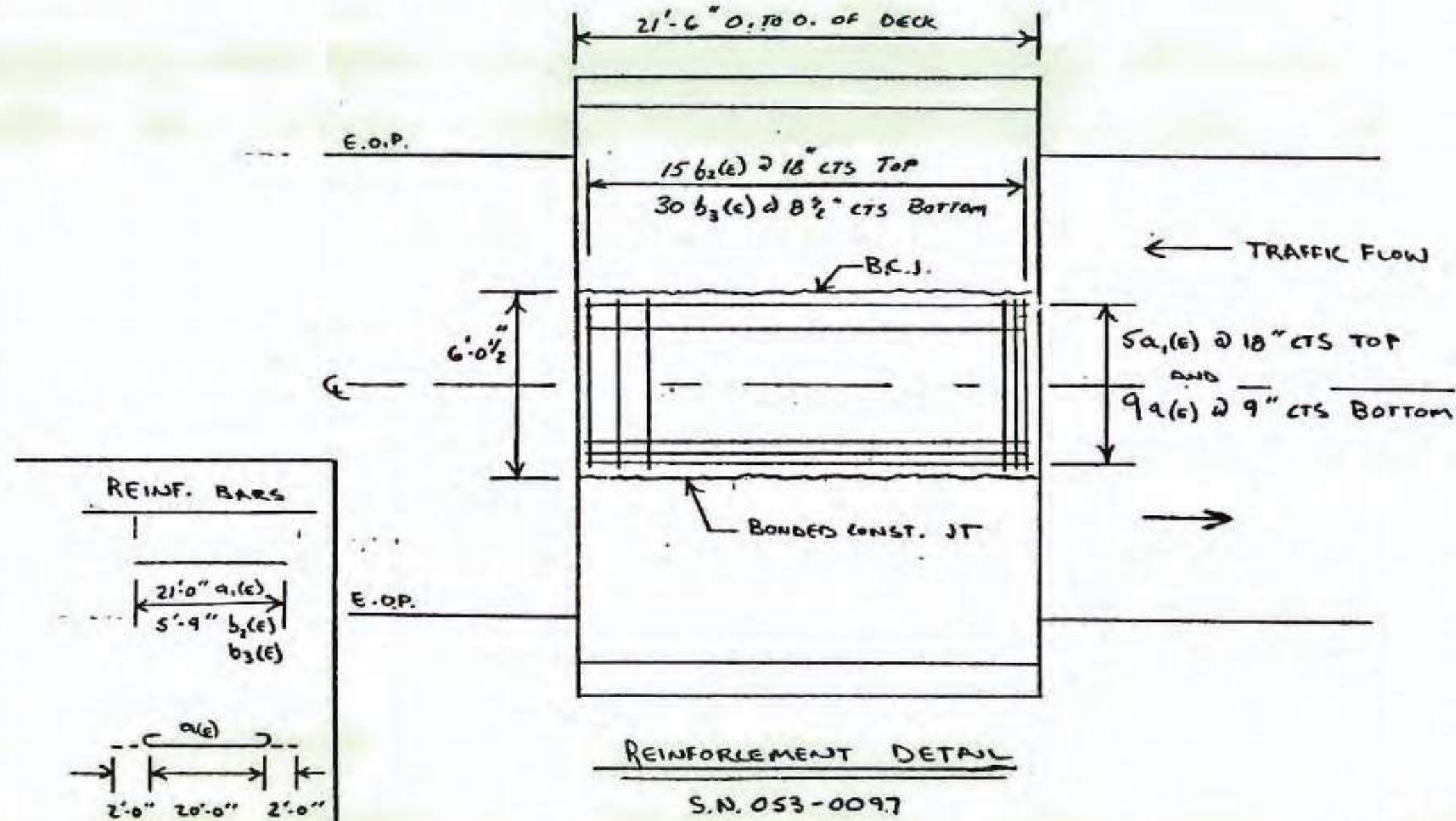
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE APRON END SECTION DETAILS
STRUCTURE NO. 053-2042

SHEET 5 OF 6 SHEETS

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS	SHEET NO.
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M28	



NOTE: (E) DENOTES EPOXY COATED
 $b_2(E)$ AND $b_3(E)$ BARS SHALL BE TIED TO
 EXISTING b_1 AND b BARS RESPECTIVELY.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
EA 9	24-B-I	LIVINGSTON	13	12
ILLINOIS PROJECT				

FOR INFORMATION ONLY

MODEL Path\Projects - Existing Structure Plans\Sheet\1991\DOT D3 Work Order\7\dm\CAD_Sheets\Existing Structure Plans_D3 Work Order\7\dm\DOT D3 Work Order\North Fork Vermillion River.dgn
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	DATE - 3/17/2023	REVISED - _____

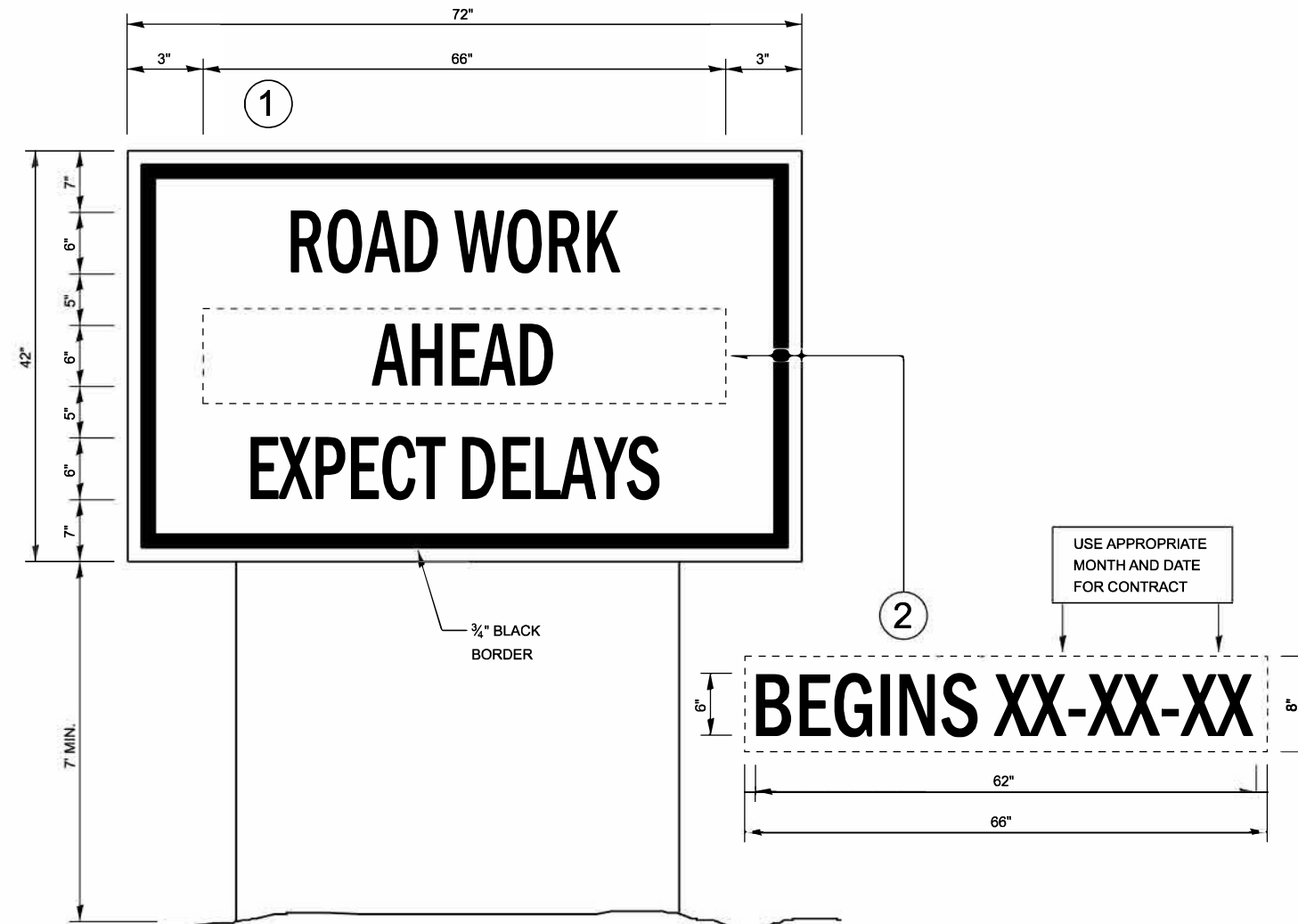
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 US 24 OVER NORTH FORK VERMILLION RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]ES	LIVINGSTON	51	33
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

Long Section Number



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT 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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	DATE - 3/17/2023	REVISED -

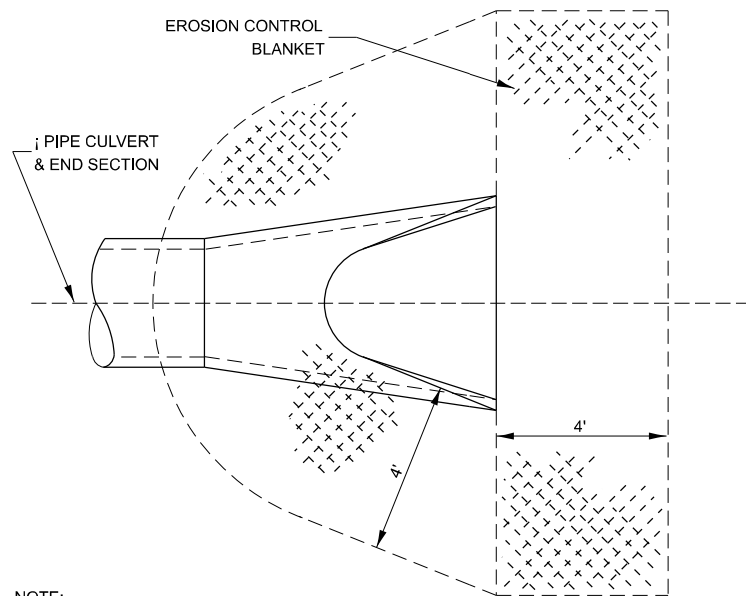
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS

SCALE: NTS SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

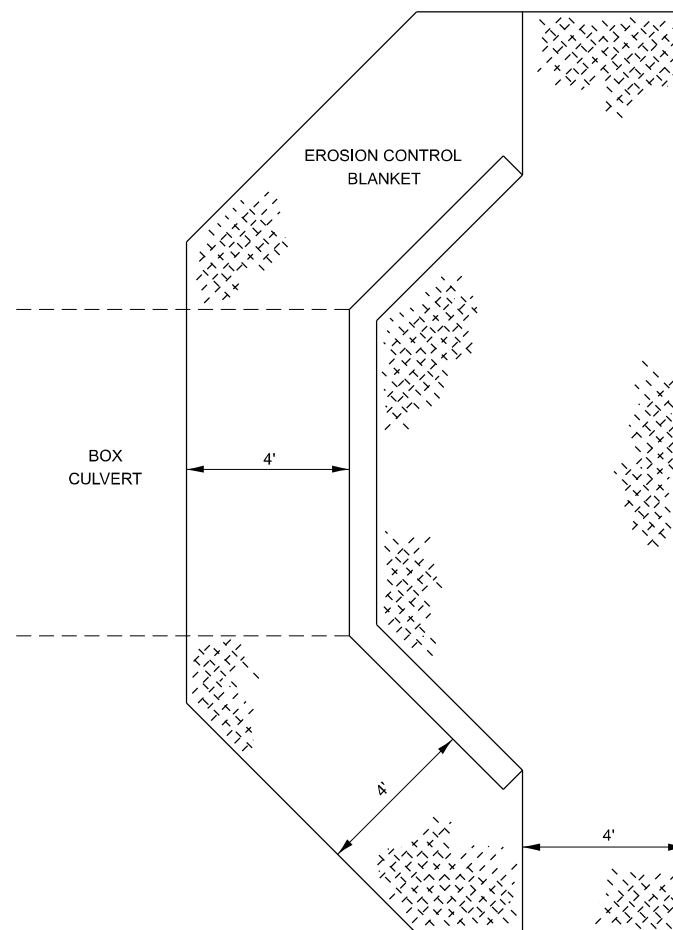
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CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

Long Section Number

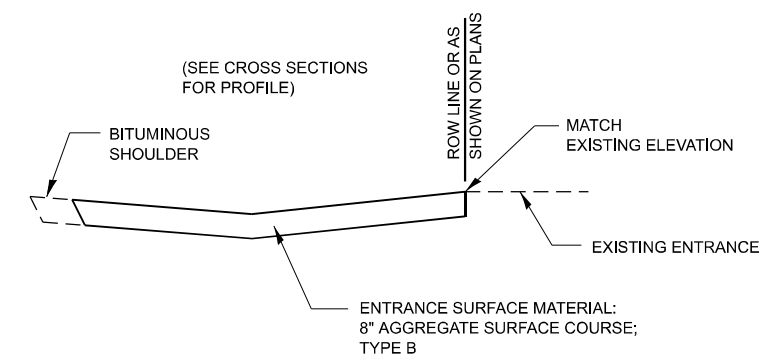
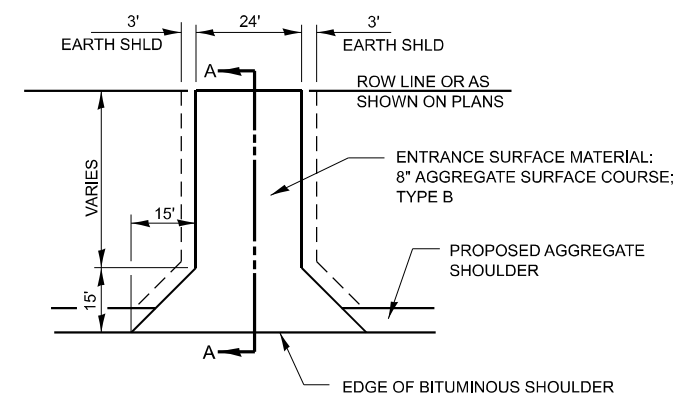


NOTE:
TO BE USED AT ALL END SECTIONS

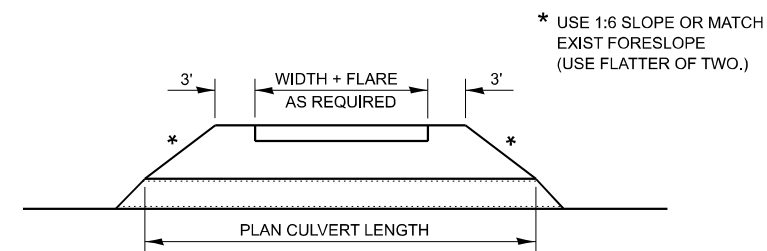
**DETAIL OF EROSION CONTROL BLANKET
LINING AROUND END SECTION**



**EROSION CONTROL BLANKET
AT BOX CULVERT END SECTIONS**



SECTION A-A



FIELD ENTRANCE DETAIL

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	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

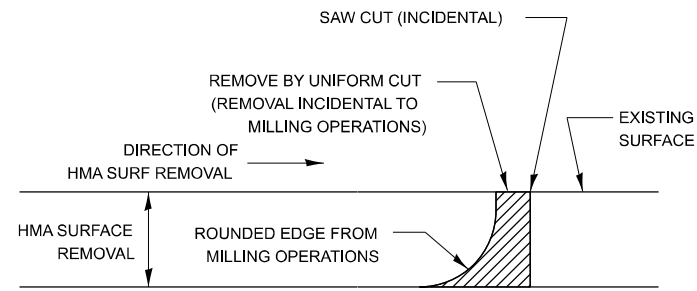
EROSION CONTROL DETAILS

SCALE: NTS SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

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CONTRACT NO. 66M28				

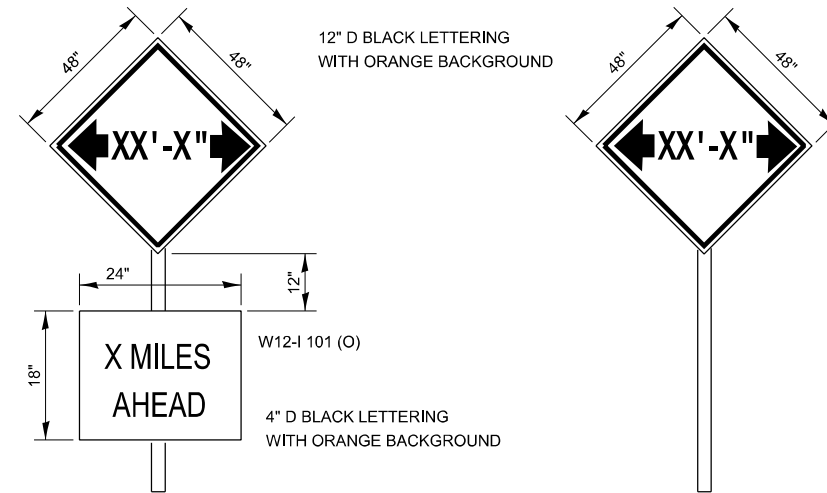
ILLINOIS FED. AID PROJECT

Long Section Number



NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
 THEN A SAW CUT SHALL BE USED TO MANUFACTURE
 A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
 THE ENGINEER SHALL BE THE SOLE JUDGE
 CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

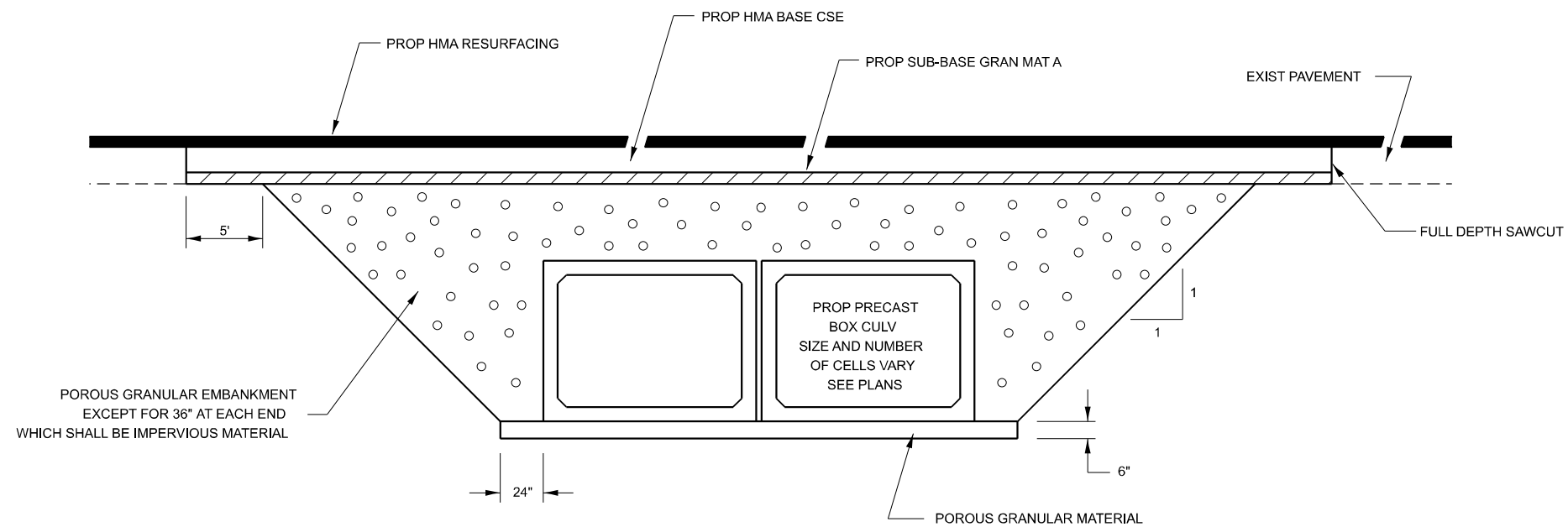


TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS

TO BE PLACED FOR STAGE I ONLY



SECTION THROUGH PRECAST BOX CULVERT

MODEL: Roadway Details - Roadway Details (Sheet) 1 (Sheet)
 FILE NAME: C:\CAD\DOT\CAD_CDD\ComputerAided\Workspaces\DOT_Consultant\Work\Scans\21026e\DOT_D3_Work_Order\7\dep\CAD_Sheets\Roadway Details_D3_Work_Order_7_US24_Over North Fork Vermillion River.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/1 in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

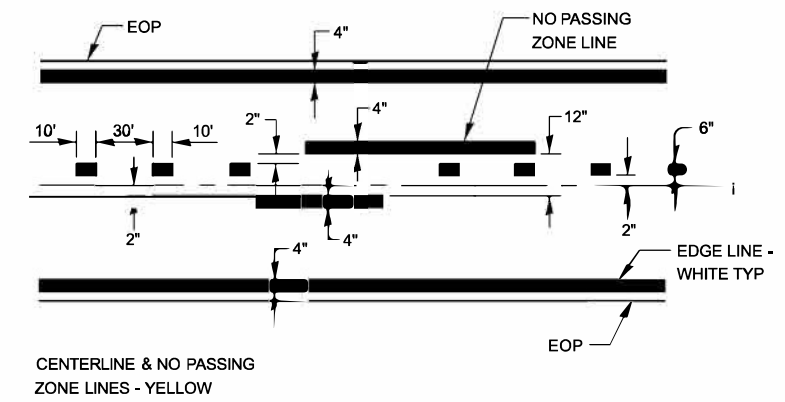
SCALE: NTS SHEET 2 OF 4 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	37
CONTRACT NO. 66M28				

ILLINOIS FED. AID PROJECT

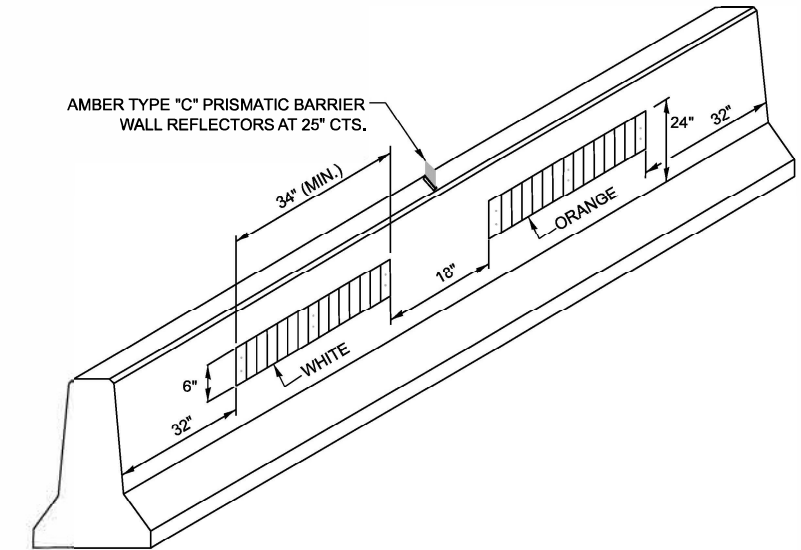
Long Section Number

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CENTERLINE & NO PASSING
 ZONE LINES - YELLOW

PAVEMENT MARKING



**LINEAR DELINEATOR PANELS
 FOR TEMPORARY CONCRETE BARRIER**



USER NAME = tbarker	DESIGNED = TJB	REVISED =
DRAWN = TJB	REVISOR =	
PLOT SCALE = 0.16666633 1/ in.	CHECKED = JNH	REVISOR =
PLOT DATE = 9/29/2023	DATE = 3/17/2023	REVISOR =

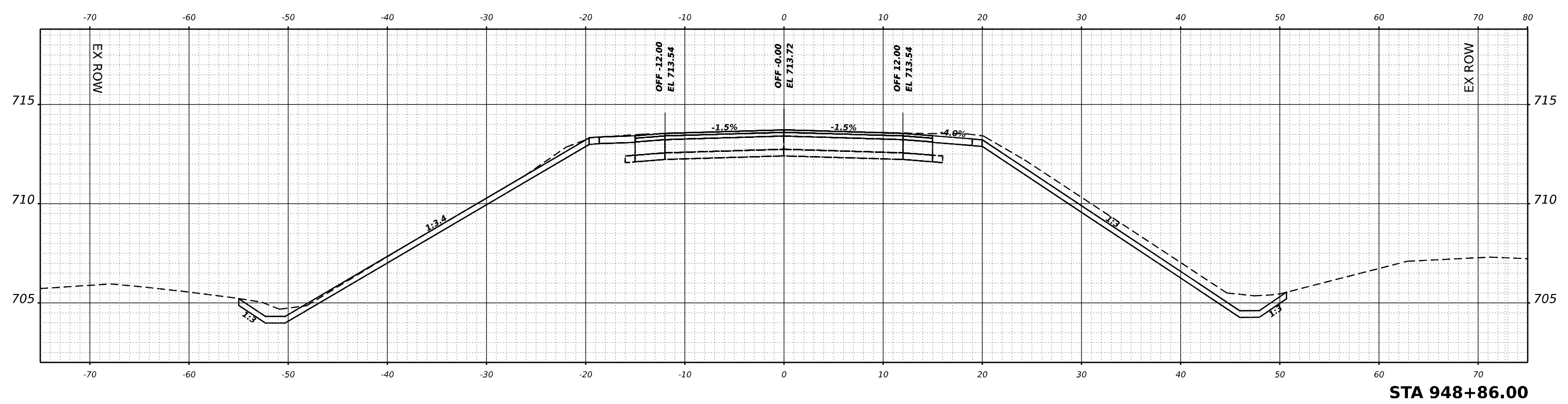
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS			
SCALE: NTS	SHEET 3	OF 4 SHEETS	STA. _____ TO STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 38
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

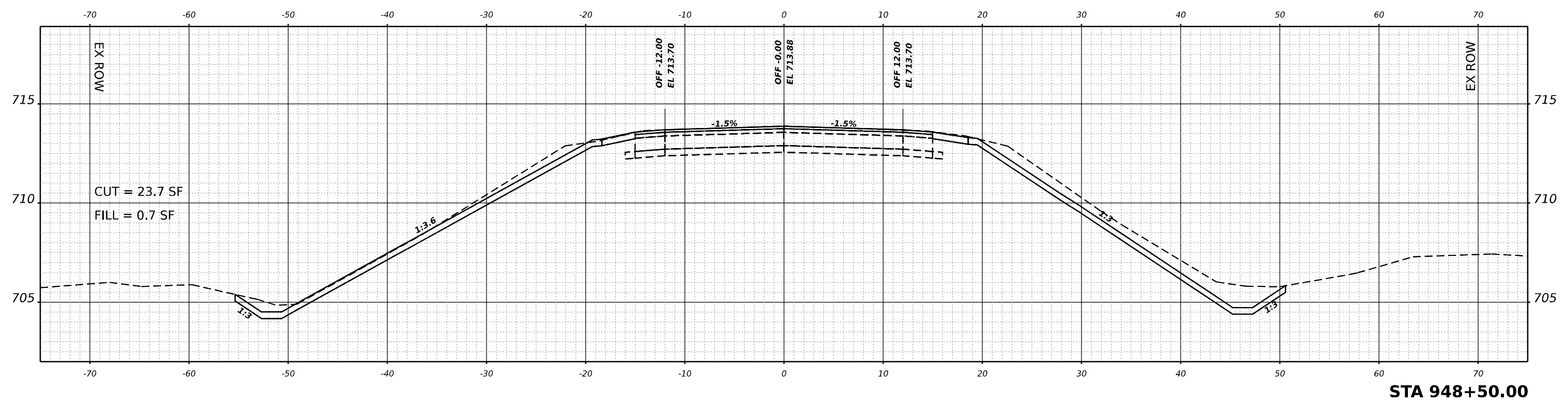
Long Section Number

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK NO.	
AREAS CHECKED	



STA 948+86.00

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK NO.	
AREAS CHECKED	



STA 948+50.00

MODEL: US24 Cross Sections - 6 948 - 50.00 (Sheet)
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USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

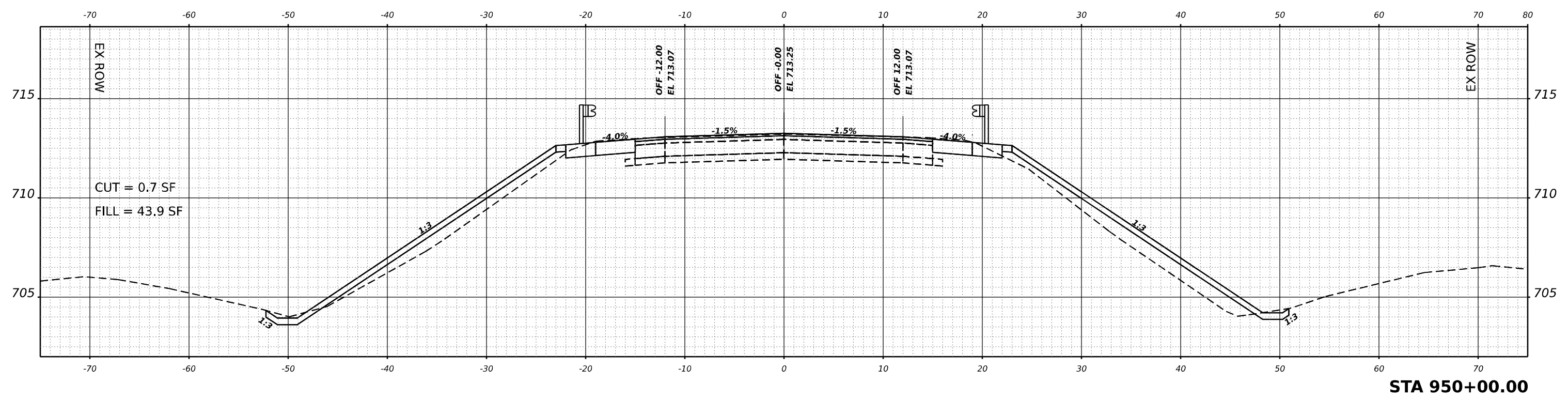
CROSS SECTIONS
 US 24 OVER NORTH FORK VERMILLION RIVER
 SCALE: 1"=5' SHEET 2 OF 13 SHEETS STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 40
			CONTRACT NO. 66M28	
		ILLINOIS	FED. AID PROJECT	

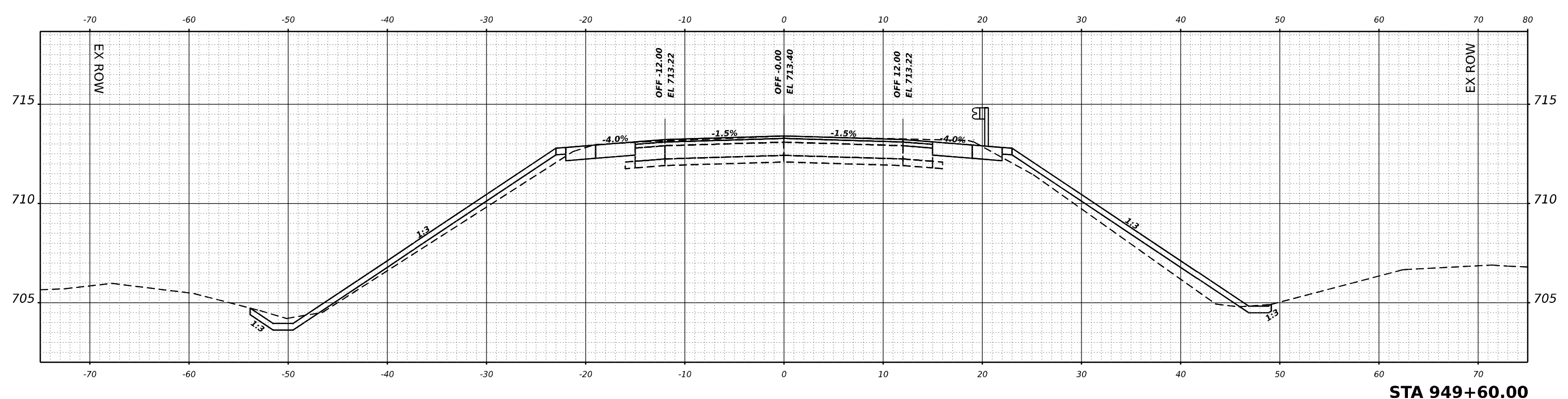
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

MODEL US24 Cross Sections - 6 949+60.00 (Sheet)
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STA 950+00.00



STA 949+60.00



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 24 OVER NORTH FORK VERMILLION RIVER**

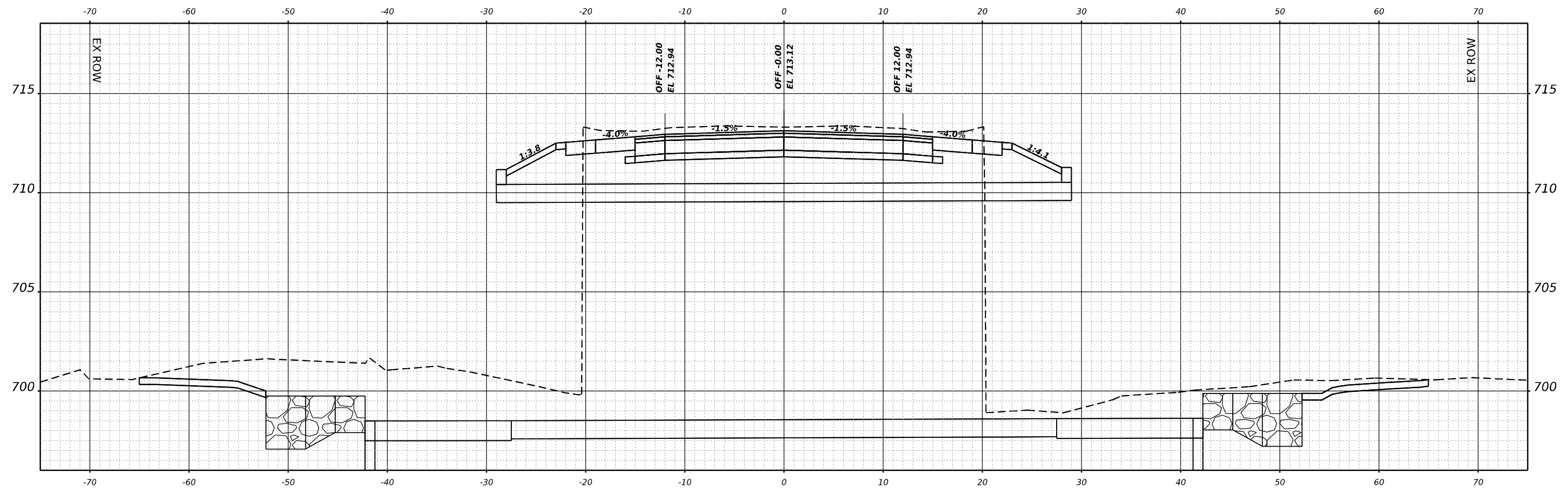
SCALE: 1"=5' SHEET 5 OF 13 SHEETS STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	43
			CONTRACT NO. 66M28	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: US24 Cross Sections - 6 950+75.00-1 (Sheet) 1
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STA 950+75.00



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 24 OVER NORTH FORK VERMILLION RIVER**

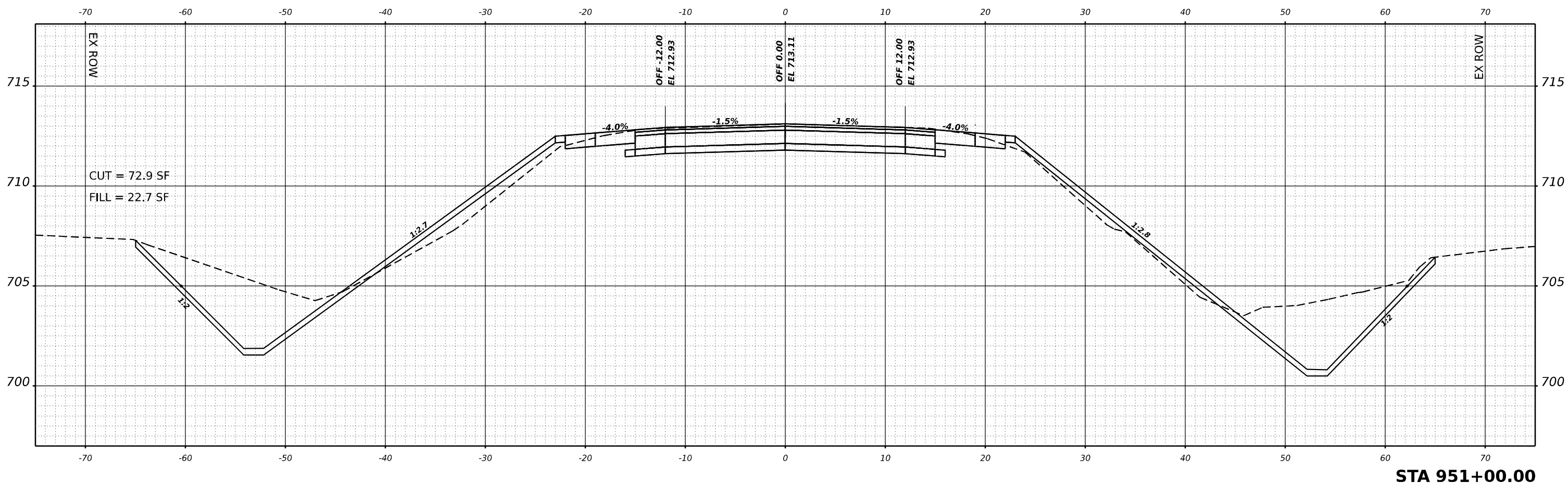
SCALE: 1"=5' SHEET 7 OF 13 SHEETS STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 45
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 24 OVER NORTH FORK VERMILLION RIVER**

SCALE: 1"=5' SHEET 8 OF 12 SHEETS STA. _____

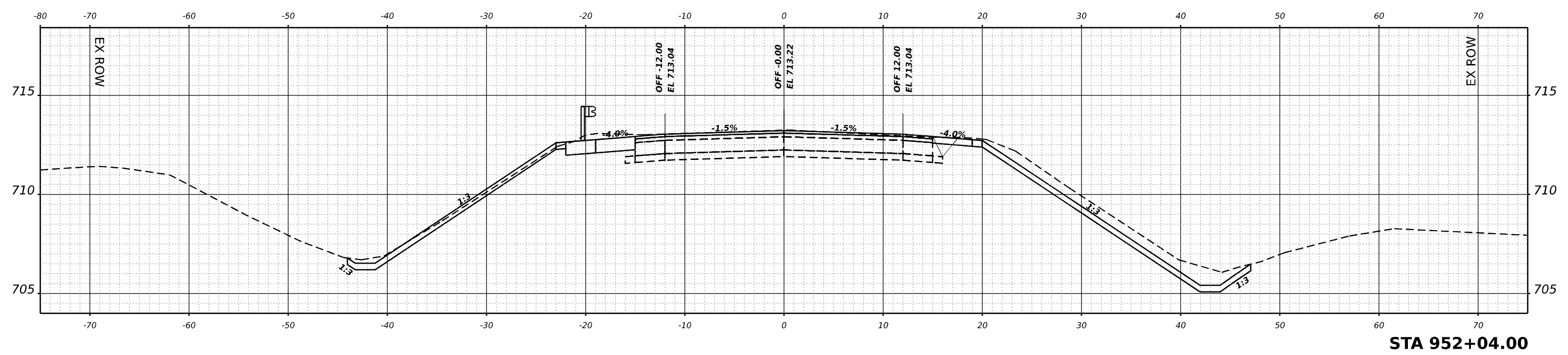
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	[(24BR2)BR]E5	LIVINGSTON	51	46
CONTRACT NO. 66M28				
ILLINOIS FED. AID PROJECT				

STA 951+00.00

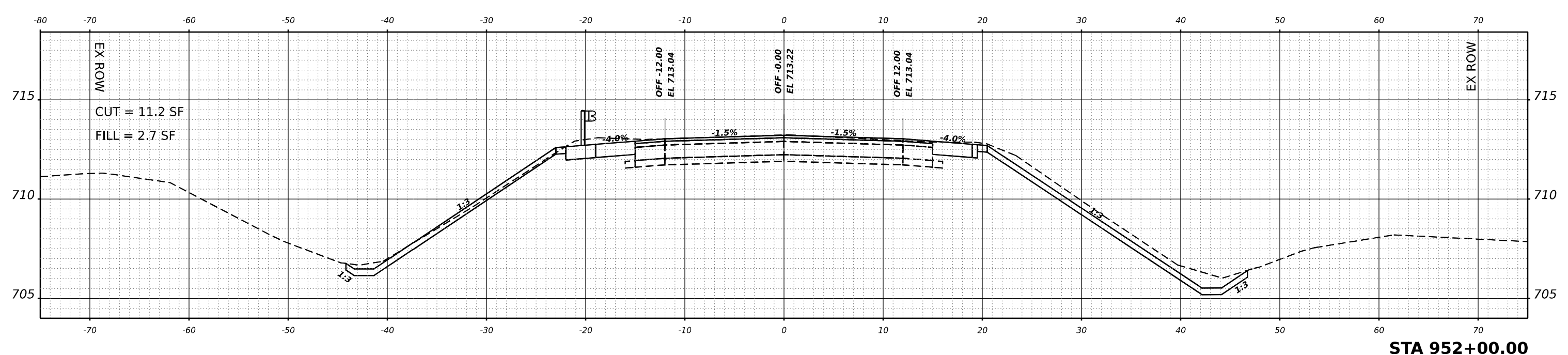
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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

MODEL: US24 Cross Sections - 6 952+00.00 (Sheet)
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STA 952+04.00



STA 952+00.00



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 24 OVER NORTH FORK VERMILLION RIVER**

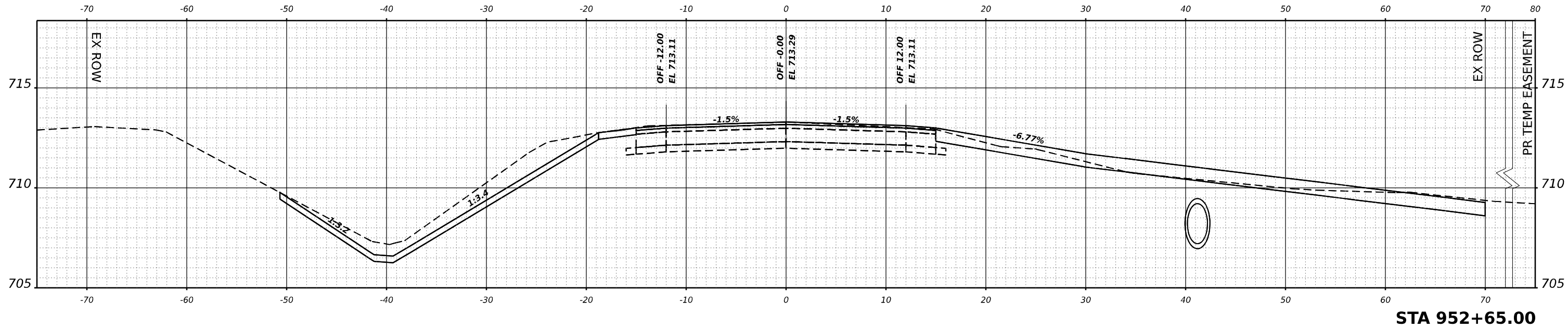
SCALE: 1"=5' SHEET 10 OF 13 SHEETS STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 48
			CONTRACT NO. 66M28	
		ILLINOIS FED. AID PROJECT		

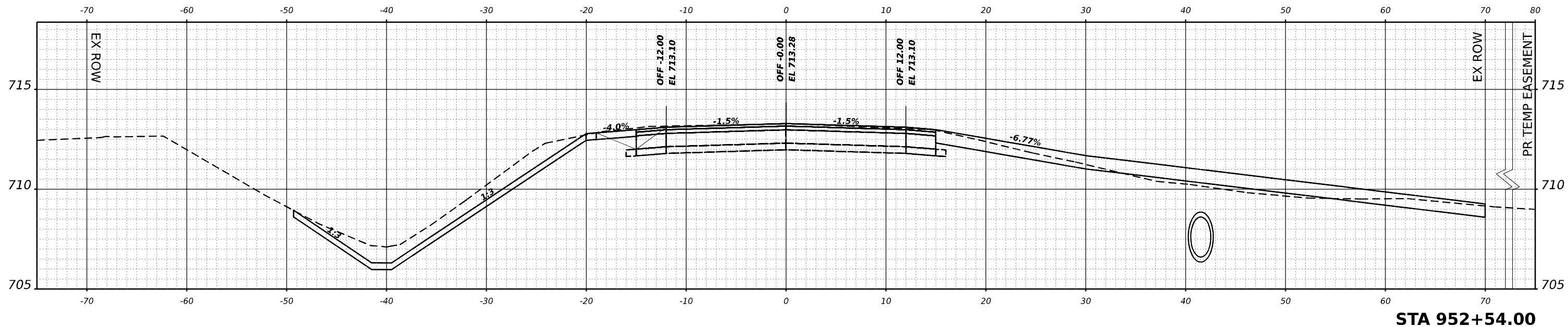
FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	

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STA 952+65.00



STA 952+54.00



USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
	DRAWN - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	CHECKED - JNH	REVISED - _____
PLOT DATE = 9/29/2023	DATE - 3/17/2023	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

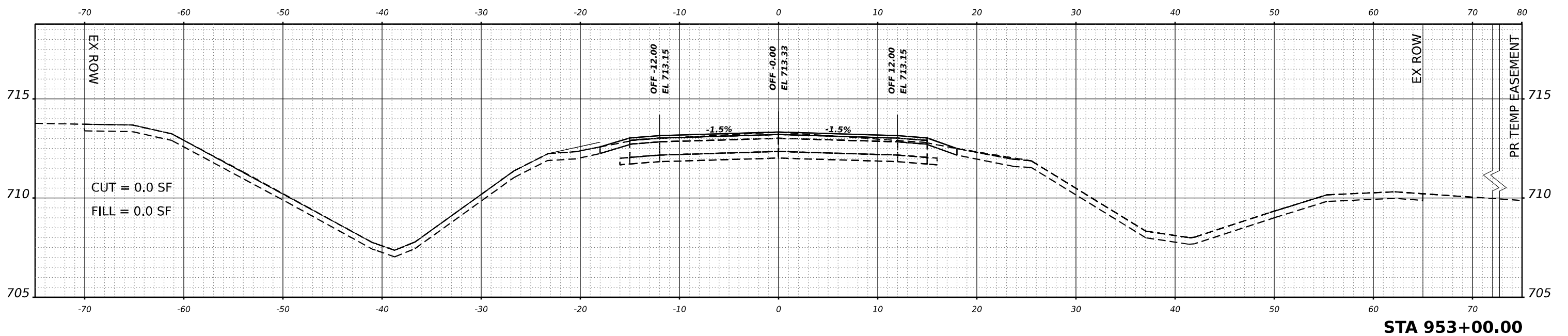
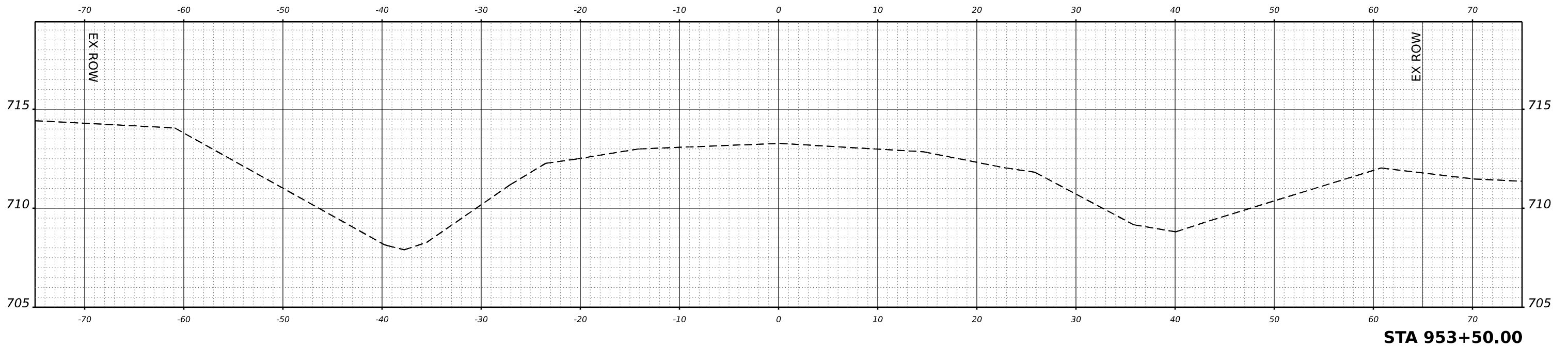
**CROSS SECTIONS
 US 24 OVER NORTH FORK VERMILLION RIVER**
 SCALE: 1"=5' SHEET 12 OF 13 SHEETS STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]ES	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 50
			CONTRACT NO. 66M28	
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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MODEL: US24 Cross Sections - 6 953+00.00 (Sheet)
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USER NAME = tbarker	DESIGNED - TJB	REVISED - _____
PLOT SCALE = 0.16666633 1/ in.	DRAWN - TJB	REVISED - _____
PLOT DATE = 9/29/2023	CHECKED - JNH	REVISED - _____
	DATE - 3/17/2023	REVISED - _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 US 24 OVER NORTH FORK VERMILLION RIVER

SCALE: 1"=5' SHEET 13 OF 13 SHEETS STA. _____

F.A.P. RTE. 317	SECTION [(24BR2)BR]E5	COUNTY LIVINGSTON	TOTAL SHEETS 51	SHEET NO. 51
			CONTRACT NO. 66M28	
		ILLINOIS FED. AID PROJECT		