08-04-2023 LETTING ITEM 037

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174*	1
	ILLINOIS	CONTRACT NO. 70860		

* 174 + 1 = 175 TOTAL SHEETS

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES, HIGHWAY STANDARDS AND COMMITMENTS
3-13	SUMMARY OF QUANTITIES
14-18	TYPICAL SECTIONS
19-25	SCHEDULE OF QUANTITIES
26	ALIGNMENT, TIES AND BENCHMARKS
27-39	ROADWAY REMOVAL PLAN (BY STAGES)
40-48	PLAN SHEETS I-74 (BY STAGES)
49-52	PROFILE SHEETS I-74
53	PLAN AND PROFILE GRIFFIN STREET
54-70	MAINTENANCE OF TRAFFIC SHEETS (BY STAGES)
71-73	EROSION CONTROL PLAN
	STRUCTURE PLANS
74-111	STRUCTURE NO. 092-0208 (EB) / 0209(WB)
112-134	STRUCTURE NO. 092-0018 (EB) / 0019(WB)
135-140	MISCELLANEOUS DETAILS
141	REAL-TIME TRAFFIC CONTROL SYSTEM PLAN SHEET
142	TEMPORARY RUMBLE STRIPS (SPECIAL)
143	WIDTH RESTRICTION SIGNING
144-145	I-74 MAINTENANCE OF TRAFFIC WIDTH RESTRICTION SIGNING
146-151	DISTRICT DETAILS
	CROSS SECTIONS
152-165	I-74
166-174	GRIFFIN STREET
*140A	DETOUR ROUTE GRIFFIN STREET

TRAFFIC DATA

I-74 WB		I-74 EB	
2020 ADT =	9,100	2020 ADT =	10,000
2040 ADT =	10,000	2040 ADT =	11,000
PV% =	61.2%	PV% =	59.5%
SU% =	3.6%	SU% =	5.5%
MU% =	35.2%	MU% =	35.0%

GRIFFIN STREET
2022 ADT = 550

FUNCTIONAL CLASSIFICATION

I-74 - INTERSTATE
GRIFFIN STREET - LOCAL ROAD

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811 TOWNSHIP(S): DANVILLE

PHONE NUMBER: (217) 465-4181
PROJECT ENGINEER: RYAN T. CARROLL

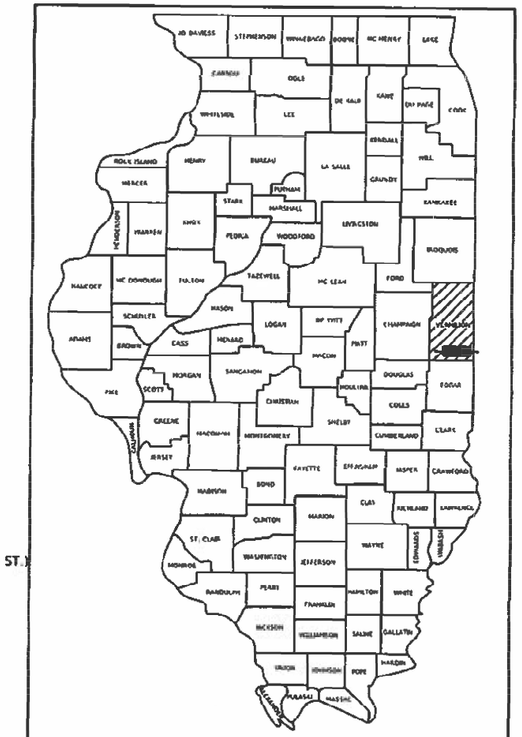
CONTRACT NO. 70860

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

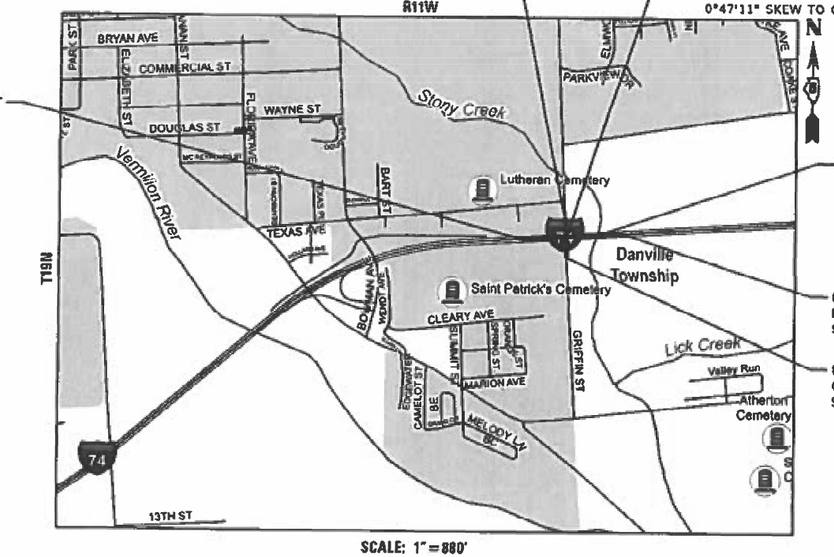
PROPOSED
HIGHWAY PLANS

FAI ROUTE 74 (I-74)
SECTION (92-12HB-4)BR-1
PROJECT HIBR-WJFC(762)
BRIDGE REPLACEMENT & BRIDGE DECK OVERLAY
VERMILION COUNTY
C-95-032-10
OVER GRIFFIN STREET & STONY CREEK IN DANVILLE

D-95-032-10



LOCATION OF SECTION INDICATED THUS: —



SCALE: 1"=880'

BRIDGE REPLACEMENT OVER GRIFFIN ST.
EX. SN 092-0016 (EB) / 0017 (WB)
PR. SN 092-0208 (EB) / 0209 (WB)
STA. 2033+66.18 (FAI 74) = STA. 50+00.00 (GRIFFIN ST.)
SINGLE SPAN AT 152'-8"
BACK TO BACK ABUTMENTS
90° SKEW TO FAI 74 (BRIDGE)
0°47'11" SKEW TO GRIFFIN ST. (CENTERLINES)

BRIDGE DECK OVERLAY OVER STONY CREEK
EX. SN 092-0018 (EB) / 0019 (WB)
STA. 2037+72.50
257' BACK TO BACK ABUTMENTS
FOUR SPAN CONT. REINFORCED CONC. DECK WITH NON-COMPOSITE STEEL BEAMS

END IMPROVEMENT
I-74
STA. 2044+69.39

END IMPROVEMENT
GRIFFIN STREET
STA. 51+56.00

GROSS LENGTH
FAI 74 = 2042.13 FT. = 0.387 MILE
GRIFFIN STREET = 312.00 FT. = 0.059 MILE

NET LENGTH
FAI 74 = 409.67 FT. = 0.078 MILE
GRIFFIN STREET = 312.00 FT. = 0.059 MILE

STATE OF ILLINOIS
ROBERT HANFLAND
NUMBER 062.064104
PROFESSIONAL ENGINEER

4/27/2023
ROBERT HANFLAND, PE EXPIRATION DATE
LICENSE NO. 062-064104 11-30-2023
SHEETS: 25, 54-70, 141-145

LICENSED PROFESSIONAL ENGINEER
TIMOTHY B. PADGETT
062-049162
STATE OF ILLINOIS

TIMOTHY B. PADGETT, PE EXPIRATION DATE
LICENSE NO. 062-049162 11-30-2023
SHEETS: 1-24, 26-53, 71-73, 135-140A, 146-174

PLANS PREPARED BY:
TWM ENGINEERING GEOSPATIAL SERVICES
4840 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
www.twm-inc.com
Illinois Professional Design Firm
No. 184-001220
License Expires: 04/30/2025
ILLINOIS - MISSOURI - TENNESSEE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 5/5 2023
Kensil A. Barnett
REGIONAL ENGINEER

June 30, 2023
ENGINEER OF DESIGN AND ENVIRONMENT

June 30, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 6/26/23 REV. 5/30/23

GENERAL NOTES

G.N. - 100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N. - 105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERICAL DATUM OF 1988. (NAVD 88)

G.N. - 201
TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

G.N. - 205
BENCHING PROCEDURES SHALL BE USED IN AREAS WHERE EXISTING EMBANKMENTS ARE WIDENED FOR THE PROPOSED PAVEMENT. STEPS SHALL BE CUT INTO THE EXISTING EMBANKMENT SLOPES AND SHALL HAVE THE FOLLOWING DIMENSIONS:
HORIZONTAL: VARIES
VERTICAL: 3 FEET

G.N. - 406H
MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THE PROJECT:

LOCATION(S):	I-74	I-74	I-74	GRIFFIN ST.	I-74 / GRIFFIN ST.
MIXTURE USE(S):	POLYMER BINDER MAINLINE FINE GRADED	POLYMER SURFACE MAINLINE / PRE-STAGE INLAY	SURFACE PRE-STAGE INSIDE SHOULDER (2 1/2") STAGE I OUTSIDE SHOULDER (2 1/2") STAGE II INSIDE SHOULDER (TOP 1 1/2") STAGE III INSIDE / OUTSIDE SHOULDER (TOP 1 1/2")	SURFACE MAINLINE	BINDER (BOTTOM SHOULDERS)
AC/PG	SBS PG 70-22	SBS PG 70-22	SBS PG 70-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=50	4.0% @ Ndes=50
MIX COMP (GRADATION)	IL 9.5 FG	IL 9.5	IL 9.5	IL 9.5	IL 19.0
FRICTION AGGREGATE	N.A.	MIX D	MIX D	MIX C	N.A.
MIXTURE WEIGHT	112	112	112	112	112
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	3000	3000	3000	3000	3000
MATERIAL TRANSFER DEVICE (REQUIRED ?)	NO	NO	NO	NO	NO

G.N. - 542.07
AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

G.N. - 703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N. - 781
THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS.

LIST OF STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
202001-01	EARTH MEDIAN DITCH CHECK
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
483001-06	PCC SHOULDER
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606401-02	PAVED DITCH
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY / EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY / EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

LIST OF D-5 DETAILS

54248510	CONCRETE COLLAR
60602700	CONCRETE GUTTER, TYPE A (SPECIAL)
7800BBBB	PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)
X7200201	WIDTH RESTRICTION SIGNING
70200000	TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD / STREET CLOSURES)

COMMITMENTS

NO COMMITMENTS

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PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS AND COMMITMENTS

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	2
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0010 URBAN	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0018 (EB) / 0019 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0059 URBAN	CONSTRUCTION CODE FAU 7046 (GRIFFIN STREET) ROADWAY STA. 48+44.00 TO STA. 51+56.00 VERMILION COUNTY 90% FEDERAL / 10% STATE 0005 URBAN
20100500	TREE REMOVAL, ACRES	ACRE	1.5	1.5		
20200100	EARTH EXCAVATION	CU YD	1850	1093		757
25000210	SEEDING, CLASS 2A	ACRE	2.25	2.15		0.10
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	192	185		7
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	192	185		7
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	192	185		7
25100115	MULCH, METHOD 2	ACRE	2.25	2.15		0.10
25100630	EROSION CONTROL BLANKET	SQ YD	3696	3338		358
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	6658	6658		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1283	1239		44
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60		
28000500	INLET AND PIPE PROTECTION	EACH	4	2		2
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3696	3338		358

* DENOTES SPECIALTY ITEM

				CONSTRUCTION CODE		
				FAI 74	FAI 74	FAU 7046 (GRIFFIN STREET)
				BRIDGE	BRIDGE	ROADWAY
				EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
				VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
				0010	0059	0005
				URBAN	URBAN	URBAN
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	6658	6658		
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	1668	1476		192
28200200	FILTER FABRIC	SQ YD	1668	1476		192
31100500	SUBBASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	433	433		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2695	2352		343
40600370	LONGITUDINAL JOINT SEALANT	FOOT	311	311		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	95			95
40600990	TEMPORARY RAMP	SQ YD	1031	1031		
40603219	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	58	58		
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	64			64
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	129	129		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	268	268		
44000100	PAVEMENT REMOVAL	SQ YD	49	49		

* DENOTES SPECIALTY ITEM

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				FAI 74	FAI 74	FAU 7046 (GRIFFIN STREET)
				BRIDGE	BRIDGE	ROADWAY
				EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
				VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
				90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
				0010	0059	0005
				URBAN	URBAN	URBAN
44000154	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/4"	SQ YD	198	198		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2525	2525		
44004000	PAVED DITCH REMOVAL	FOOT	417	358		59
44004250	PAVED SHOULDER REMOVAL	SQ YD	909	909		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	472	472		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	146	124		22
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	176			176
48203065	HOT-MIX ASPHALT SHOULDERS, 17"	SQ YD	917	917		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	466	466		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	24.8		24.8	
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1		

* DENOTES SPECIALTY ITEM

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PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 3 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	5
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE		
				EAI 74	EAI 74	FAU 7046 (GRIFFIN STREET)
				BRIDGE	BRIDGE	ROADWAY
				EX SN 092-0016 (EB) / 0017 (WB) ER SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
				VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
				90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
				0010	0059	0005
				URBAN	URBAN	URBAN
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY			
50105220	PIPE CULVERT REMOVAL	FOOT	8	8		
50200100	STRUCTURE EXCAVATION	CU YD	413	413		
50300100	FLOOR DRAINS	EACH	76	24	52	
50300225	CONCRETE STRUCTURES	CU YD	182.9	182.9		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	623.4	596.0	27.4	
50300300	PROTECTIVE COAT	SQ YD	5107	2240	2867	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	237.4	237.4		
50401355	FURNISHING AND ERECTJNG PRECAST PRESTRESSED CONCRETE BEAMS, 1L72N	FOOT	1800	1800		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	10400		10400	
50800105	REINFORCEMENT BARS	POUND	1030	1030		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	240160	236600	3560	
50800515	BAR SPLJCERS	EACH	1626	1570	56	
51100100	SLOPE WALL 4 INCH	SQ YD	1665	1665		

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 4 OF II SHEETS! STA. TO STA.

F A L RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(92-12HB-4)BR-I	VERMILION	174	6
		CONTRACT NO. 70860		
	I ILLINOIS I FED. AID PROJECT			

REV. 7/5/23REV. 6/26/23

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0016 (EB) / 0017 (WB) ER SN 092-0208 (EB) / 0209 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0010 URBAN	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0018 (EB) / 0019 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0059 URBAN	CONSTRUCTION CODE FAU 7046 (GRIFFIN STREET) ROADWAY STA. 48+44.00 TO STA. 51+56.00 VERMILION COUNTY 90% FEDERAL / 10% STATE 0005 URBAN
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	2156	2156		
51202305	DRIVING PILES	FOOT	2156	2156		
51203200	TEST PILE METAL SHELLS	EACH	4	4		
51204650	PILE SHOES	EACH	48	48		
51500100	NAME PLATES	EACH	2	2		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	164		164	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	28		28	
52100520	ANCHOR BOLTS, 1"	EACH	112		112	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	577	577		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		
54248510	CONCRETE COLLAR	CU YD	0.5	0.5		
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	13	13		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	608	608		

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 5 OF 11 SHEETS | STA. | TO STA.

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(92-12HB-4)BR-1	VERMILION	114	7
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

REV. 6/26/23

				CONSTRUCTION CODE		
				FAI 74	FAI 74	FAU 7046 (GRIFFIN STREET)
				BRIDGE	BRIDGE	ROADWAY
				EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
				VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
				90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
				0010	0059	0005
				URBAN	URBAN	URBAN
	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY		
	59000200	EPOXY CRACK INJECTION	FOOT	10		10	
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	264	264		
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	7	7		
	60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	34	34		
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	311	311		
	60920018	PIPE CULVERTS TO BE CLEANED 18"	FOOT	44			44
	60920024	PIPE CULVERTS TO BE CLEANED 24"	FOOT	48			48
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	500	500		
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1188	1188		
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	11	11		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
	63200310	GUARDRAIL REMOVAL	FOOT	2104	2104		

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 6 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	8
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0010 URBAN	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0018 (EB) / 0019 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0059 URBAN	CONSTRUCTION CODE FAU 7046 (GRIFFIN STREET) ROADWAY STA. 48+44.00 TO STA. 51+56.00 VERMILION COUNTY 90% FEDERAL / 10% STATE 0005 URBAN
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	5403	5403		
66400105	CHAIN LINK FENCE, 4'	FOOT	187	187		
66500105	WOVEN WIRE FENCE, 4'	FOOT	190	190		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	15	5	5	5
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	1	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	0.5	0.5	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1650	1650		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	14	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	532	532		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	777	777		
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	17535	17535		

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 7 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	9
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

REV. 6/21/23

					CONSTRUCTION CODE		
					FAI 74	FAI 74	FAU 7046 (GRIFFIN STREET)
					BRIDGE	BRIDGE	ROADWAY
					EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
					VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
					90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
					0010	0059	0005
					URBAN	URBAN	URBAN
	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY			
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	3675	3675		
	70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	114	114		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1925	1925		
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4		
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
⁎	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	11299	11299		
*	78008330	POLYUREA PAVEMENT MARKING TYPE II - LINE 6"	FOOT	2779	2779		
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	14077	14077		
⁎	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12		
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	46	46		
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	241	241		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12		

⁎ DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 8 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	10
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

REV. 6/21/23

				CONSTRUCTION CODE		
				FAI 74	FAI 74	FAU 7046 (GRIFFIN STREET)
				BRIDGE	BRIDGE	ROADWAY
				EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
				VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
				90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
				0010	0059	0005
				URBAN	URBAN	URBAN
	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY		
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	10153	10153	
*	X0327640	REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT	CAL MO	9	9	
*	X0327641	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	CAL MO	126	126	
*	X0328006	REAL-TIME TRAFFIC CONTROL WARNING SIGN	CAL MO	54	54	
	X0549200	CLEANING PAVED DITCH	FOOT	727	697	30
	X2010510	CLEARING AND GRUBBING	L SUM	1	1	
	X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	16	16	
	X4201410	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SQ YD	447	447	
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1357	1357	
	X4406220	PARTIAL DEPTH REMOVAL, TYPE II, 2"	SQ YD	53	53	
	X4421000	PARTIAL DEPTH PATCHING	TON	6	6	
	X4832455	PORTLAND CEMENT CONCRETE SHOULDERS 11 1/2" (SPECIAL)	SQ YD	37	37	
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	3025	1124	1901

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 9 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	11
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

REV. 6/21/23

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0016 (EB) / 0017 (WB) PR SN 092-0208 (EB) / 0209 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0010 URBAN	CONSTRUCTION CODE FAI 74 BRIDGE EX SN 092-0018 (EB) / 0019 (WB) VERMILION COUNTY 90% FEDERAL / 10% STATE 0059 URBAN	CONSTRUCTION CODE FAU 7046 (GRIFFIN STREET) ROADWAY STA. 48+44.00 TO STA. 51+56.00 VERMILION COUNTY 90% FEDERAL / 10% STATE 0005 URBAN
X6010001	CONNECTION OF EXISTING PIPE UNDERDRAIN	EACH	2	2		
X6013700	PIPE UNDERDRAIN REMOVAL (SPECIAL)	FOOT	176	176		
X6060101	CLASS SI CONCRETE PIPE UNDER DRAIN OUTLET	CU YD	1.6	1.6		
X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	65			65
X6640300	CHAIN LINK FENCE REMOVAL	FOOT	240	240		
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	234	234		
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5	0.5	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	28		28	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	4200		4200	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	436	436		
Z0004560	BRIDGE WEARING SURFACE REMOVAL	SQ YD	526	526		
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	2805		2805	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2805		2805	

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 10 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	12
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE		
				FAI 74	FAI 74	FAU 7046 (GRIFFIN STREET)
				BRIDGE	BRIDGE	ROADWAY
				EX SN 092-0016 (EB) / 0017 (WB) ER SN 092-0208 (EB) / 0209 (WB)	EX SN 092-0018 (EB) / 0019 (WB)	STA. 48+44.00 TO STA. 51+56.00
				VERMILION COUNTY	VERMILION COUNTY	VERMILION COUNTY
				90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE	90% FEDERAL / 10% STATE
				0010	0059	0005
				URBAN	URBAN	URBAN
	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY		
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	37		37	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.34	0.33	0.33
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	68		68	
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	79	79		
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	53	53		
	Z0016702	DETOUR SIGNING	L SUM	1			1
	Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4		4	
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4691	2088	2603	
	Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	172	172		
	Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	8.0		8.0	
	Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	4	4		
	X6010106	PIPE UNDERDRAIN OUTLET EXTENSION FOR 6" PIPE	EACH	5	5		
Ø	Z0076600	TRAINEES	HOUR	1,500			1,500
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,500			1,500

Ø 0042 * DENOTES SPECIALTY ITEM

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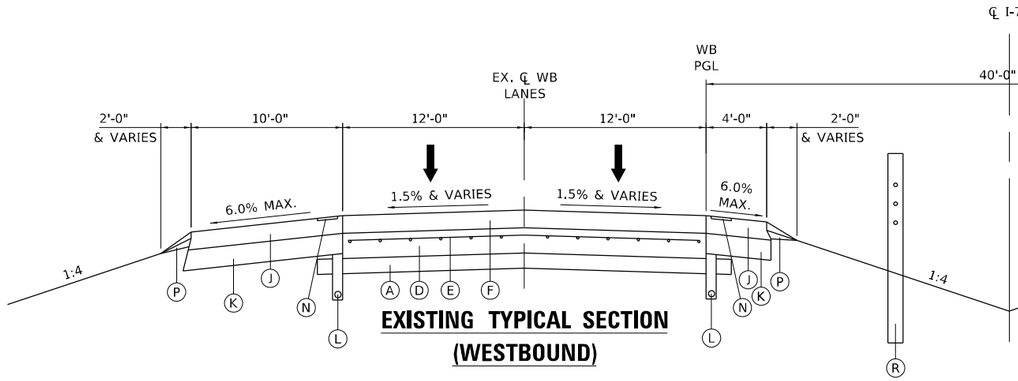
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 11 OF 11 SHEETS! STA. TO STA.

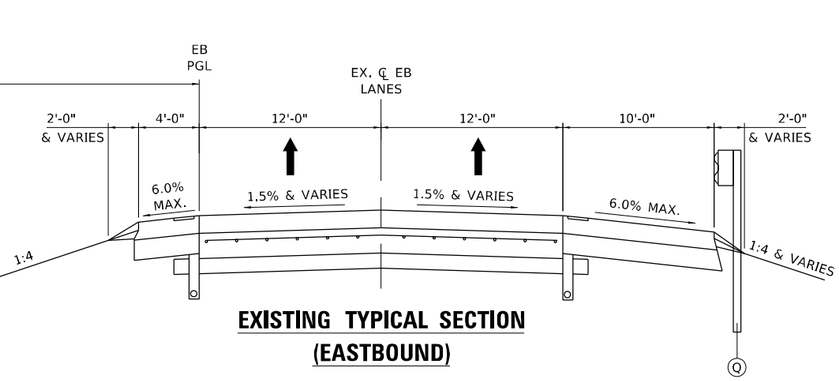
F A L RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(92-12HB-4)BR-I	VERMILION	114	13
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

REV. 6/26/23 REV. 6/13/23



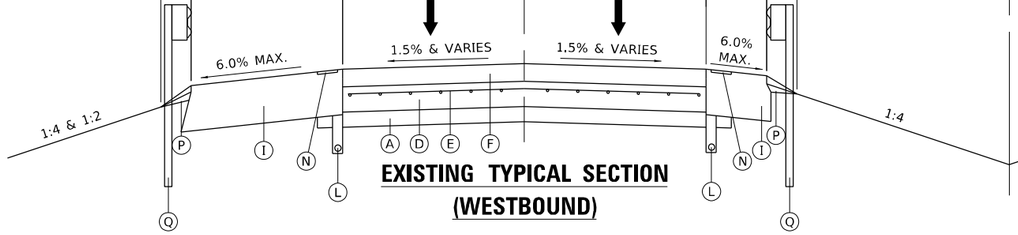
EXISTING TYPICAL SECTION (WESTBOUND)

STA. 2028+91.18 (O.S.) TO STA. 2030+05.00 (O.S.)
STA. 2027+71.60 (I.S.) TO STA. 2030+35.00 (I.S.)



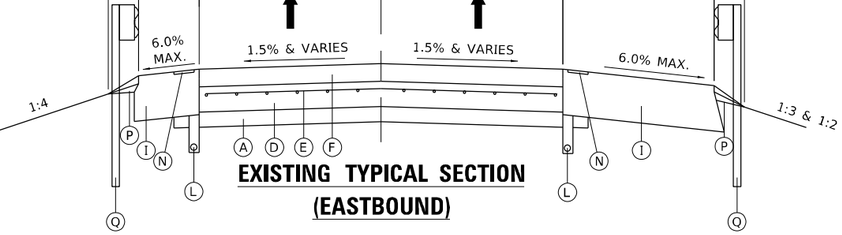
EXISTING TYPICAL SECTION (EASTBOUND)

STA. 2024+27.26 (O.S.) TO STA. 2028+41.18 (O.S.)



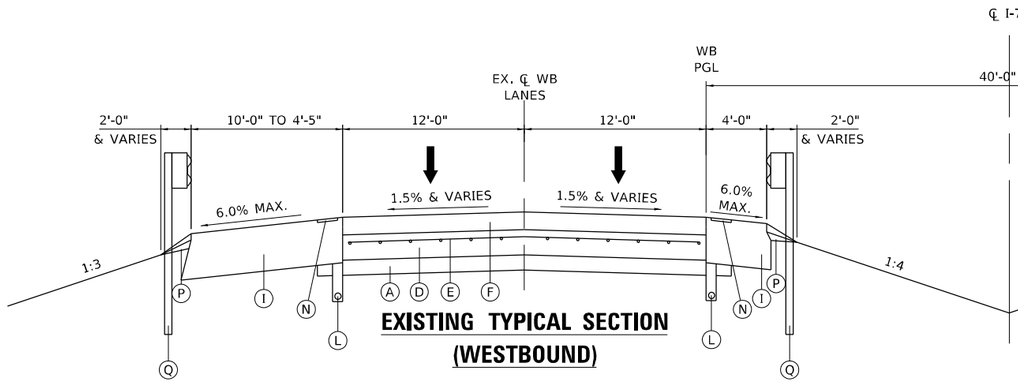
EXISTING TYPICAL SECTION (WESTBOUND)

STA. 2030+05.00 (O.S.) TO STA. 2031+05.62 (O.S.)
STA. 2030+35.00 (I.S.) TO STA. 2032+41.56 (I.S.)
APPROACH / BRIDGE OMISSION - STA. 2032+41.56 TO STA. 2034+93.24
APPROACH / BRIDGE OMISSION - STA. 2035+93.70 TO STA. 2039+49.89
STA. 2039+49.89 TO STA. 2040+69.16
STA. 2042+97.68 (O.S) TO STA. 2043+99.89 (O.S)



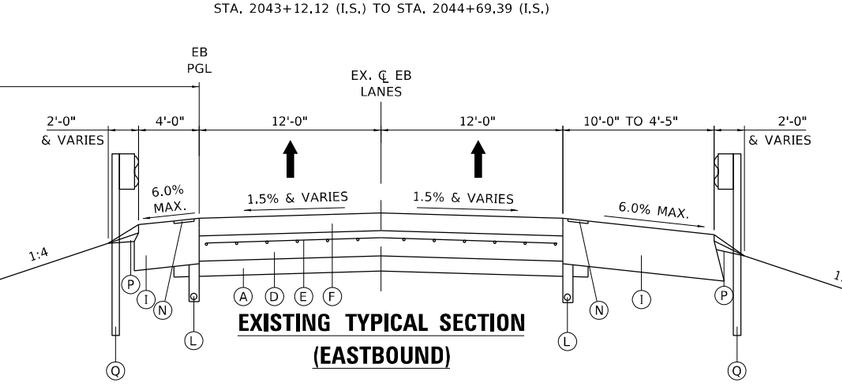
EXISTING TYPICAL SECTION (EASTBOUND)

STA. 2028+41.18 (O.S.) TO STA. 2029+78.69 (O.S.)
STA. 2029+51.68 (I.S.) TO STA. 2032+40.60 (I.S.)
APPROACH / BRIDGE OMISSION - STA. 2032+40.60 TO STA. 2034+92.46
APPROACH / BRIDGE OMISSION - STA. 2035+93.11 TO STA. 2039+49.81
STA. 2039+49.81 TO STA. 2040+83.60
STA. 2043+12.12 (O.S) TO STA. 2043+49.81 (O.S)
STA. 2043+12.12 (I.S,) TO STA. 2044+69.39 (I.S,)



EXISTING TYPICAL SECTION (WESTBOUND)

STA. 2031+05.62 (O.S.) TO STA. 2032+41.56 (O.S.)



EXISTING TYPICAL SECTION (EASTBOUND)

STA. 2029+78.69 (O.S.) TO STA. 2032+40.60 (O.S.)

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 1.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/SQ YD
- (9) PR. HMA SHOULDERS, 280 LB/SQ YD
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/SQ YD (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/SQ YD (GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 380 LB/SQ YD
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5" — SEE NOTE 1
- (28) PR. HMA SHOULDERS 3" TO 2.75"
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

1. FINAL CONDITION, NOT A PAY ITEM

   O.S. - OUTSIDE SHOULDER
   I.S. - INSIDE SHOULDER

THESE PROPOSED TYPICALS REPRESENT THE FINAL CONDITIONS AFTER CONSTRUCTION. SEE MAINTENANCE OF TRAFFIC SHEETS FOR STAGE CONSTRUCTION DETAILS.

MODEL: Default
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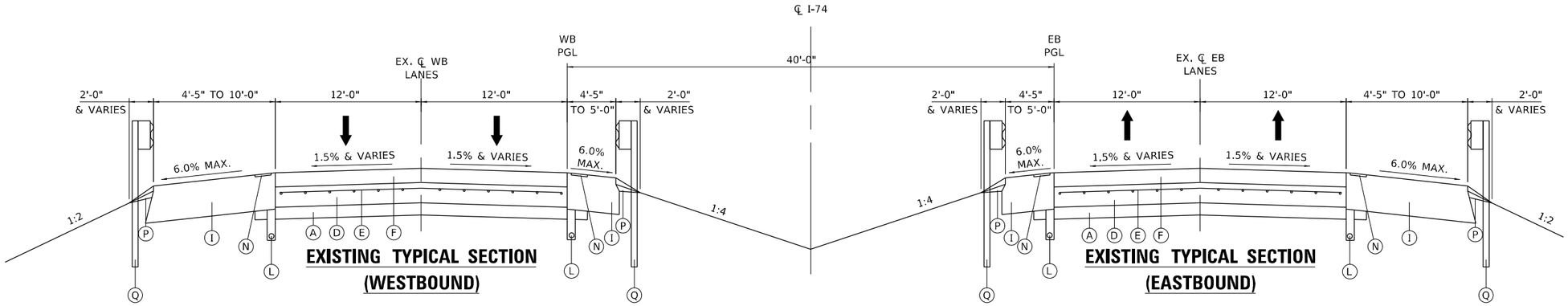
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 5/3/2023	DATE -	REVISED -	

EXISTING TYPICAL SECTIONS
I-74

SCALE: N.A. | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	14
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

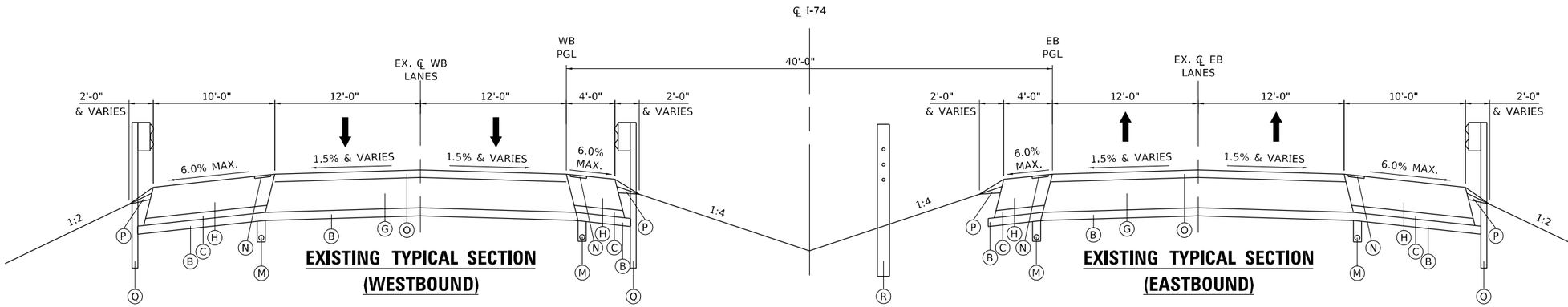


EXISTING TYPICAL SECTION (WESTBOUND)

STA. 2034+93.24 TO STA. 2035+93.70

EXISTING TYPICAL SECTION (EASTBOUND)

STA. 2034+92.46 TO STA. 2035+93.11



EXISTING TYPICAL SECTION (WESTBOUND)

STA. 2040+69.16 (O.S.) TO STA. 2042+97.68 (O.S.)
STA. 2040+69.16 (I.S) TO STA. 2042.04.47 (I.S.)

EXISTING TYPICAL SECTION (EASTBOUND)

STA. 2040+83.60 TO STA. 2043+12.12

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 1.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/SQ YD
- (9) PR. HMA SHOULDERS, 280 LB/SQ YD
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/SQ YD (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/SQ YD (GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 380 LB/SQ YD
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5" — SEE NOTE 1
- (28) PR. HMA SHOULDERS 3" TO 2.75"
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

1. FINAL CONDITION, NOT A PAY ITEM

   O.S. - OUTSIDE SHOULDER
   I.S. - INSIDE SHOULDER

THESE PROPOSED TYPICALS REPRESENT THE FINAL CONDITIONS AFTER CONSTRUCTION. SEE MAINTENANCE OF TRAFFIC SHEETS FOR STAGE CONSTRUCTION DETAILS.

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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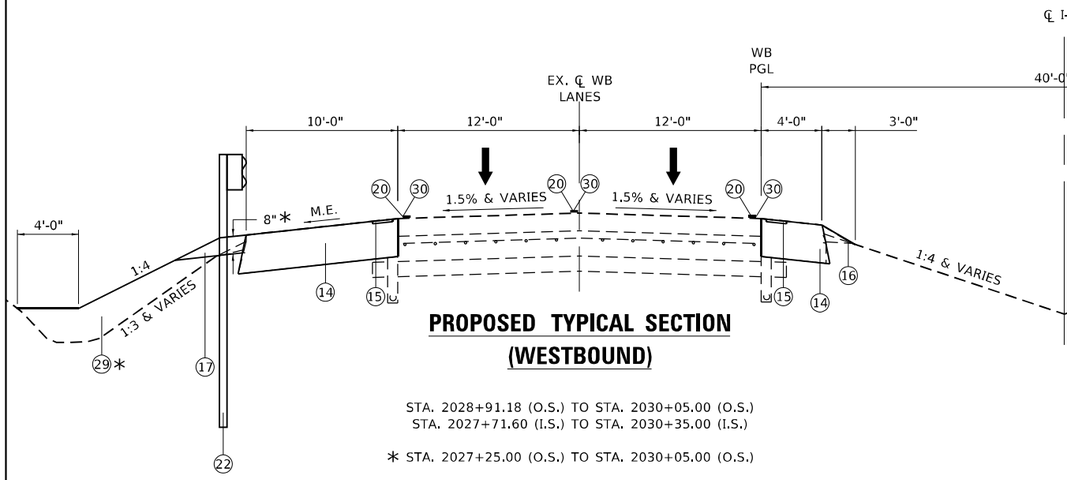
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
I-74

SCALE: N.A. | SHEET 2 OF 5 SHEETS | STA. | TO STA.

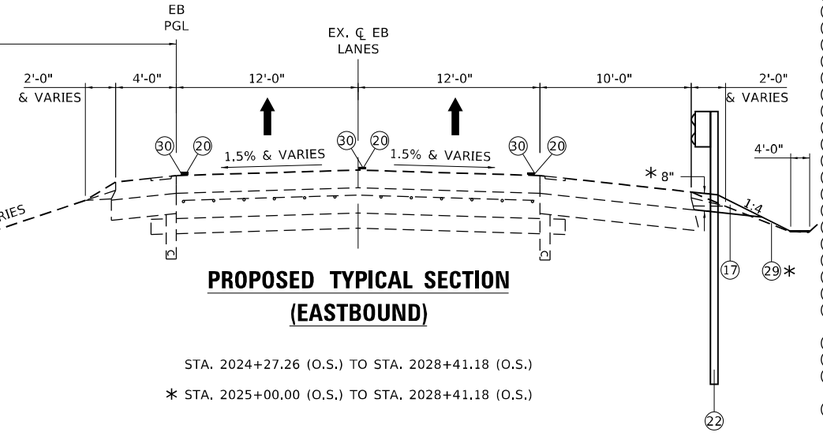
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	15
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION (WESTBOUND)

STA. 2028+91.18 (O.S.) TO STA. 2030+05.00 (O.S.)
STA. 2027+71.60 (I.S.) TO STA. 2030+35.00 (I.S.)

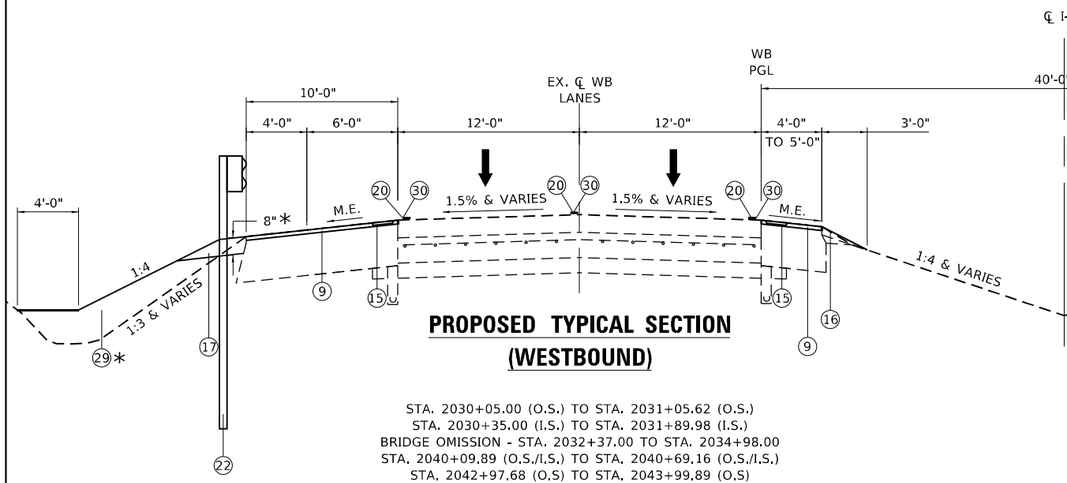
∗ STA. 2027+25.00 (O.S.) TO STA. 2030+05.00 (O.S.)



PROPOSED TYPICAL SECTION (EASTBOUND)

STA. 2024+27.26 (O.S.) TO STA. 2028+41.18 (O.S.)

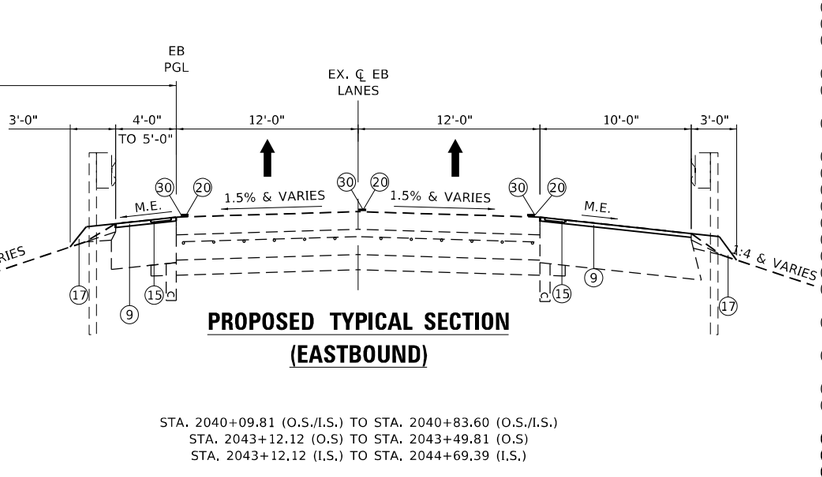
∗ STA. 2025+00.00 (O.S.) TO STA. 2028+41.18 (O.S.)



PROPOSED TYPICAL SECTION (WESTBOUND)

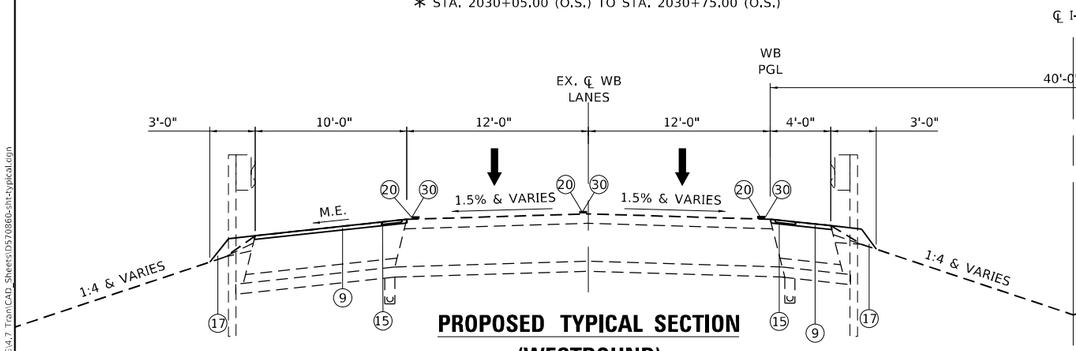
STA. 2030+05.00 (O.S.) TO STA. 2031+05.62 (O.S.)
STA. 2030+35.00 (I.S.) TO STA. 2031+89.98 (I.S.)
BRIDGE OMISSION - STA. 2032+37.00 TO STA. 2034+98.00
STA. 2040+09.89 (O.S./I.S.) TO STA. 2040+69.16 (O.S./I.S.)
STA. 2042+97.68 (O.S) TO STA. 2043+99.89 (O.S)

∗ STA. 2030+05.00 (O.S.) TO STA. 2030+75.00 (O.S.)



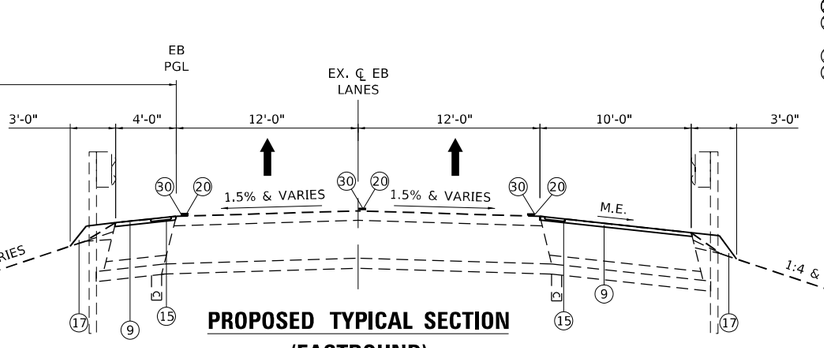
PROPOSED TYPICAL SECTION (EASTBOUND)

STA. 2040+09.81 (O.S./I.S.) TO STA. 2040+83.60 (O.S./I.S.)
STA. 2043+12.12 (O.S) TO STA. 2043+49.81 (O.S)
STA. 2043+12.12 (I.S.) TO STA. 2044+69.39 (I.S.)



PROPOSED TYPICAL SECTION (WESTBOUND)

STA. 2040+69.16 (O.S.) TO STA. 2042+97.68 (O.S.)
STA. 2040+69.16 (I.S) TO STA. 2042.04.47 (I.S.)



PROPOSED TYPICAL SECTION (EASTBOUND)

STA. 2040+83.60 (O.S./I.S.) TO STA. 2043+12.12 (O.S./I.S.)

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 1.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/SQ YD
- (9) PR. HMA SHOULDERS, 280 LB/SQ YD
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/SQ YD (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/SQ YD (GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 380 LB/SQ YD
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5" — SEE NOTE 1
- (28) PR. HMA SHOULDERS 3" TO 2.75"
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

1. FINAL CONDITION, NOT A PAY ITEM

   O.S. - OUTSIDE SHOULDER
   I.S. - INSIDE SHOULDER

THESE PROPOSED TYPICALS REPRESENT THE FINAL CONDITIONS AFTER CONSTRUCTION. SEE MAINTENANCE OF TRAFFIC SHEETS FOR STAGE CONSTRUCTION DETAILS.

MODEL: Default
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TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220
ENGINEERING GEOSPATIAL SERVICES

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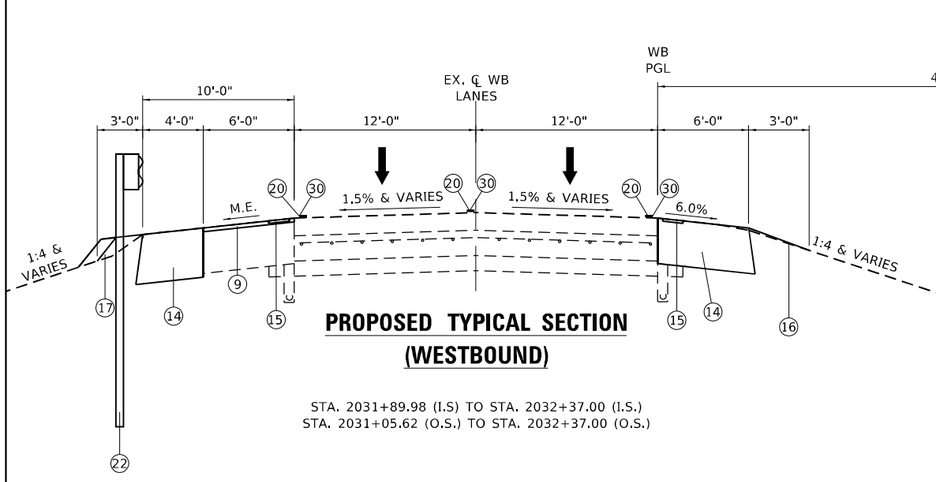
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

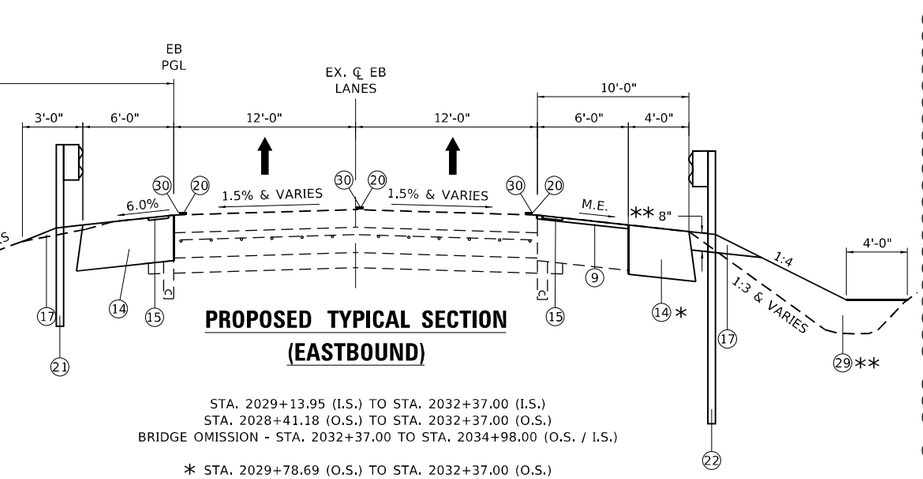
PROPOSED TYPICAL SECTIONS
I-74

SCALE: N.A. | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	16
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

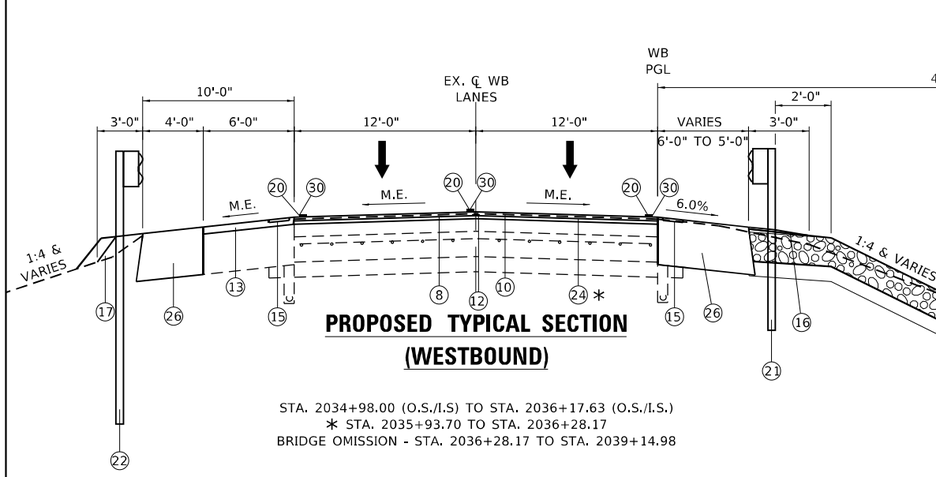


STA. 2031+89.98 (I.S) TO STA. 2032+37.00 (I.S.)
STA. 2031+05.62 (O.S.) TO STA. 2032+37.00 (O.S.)

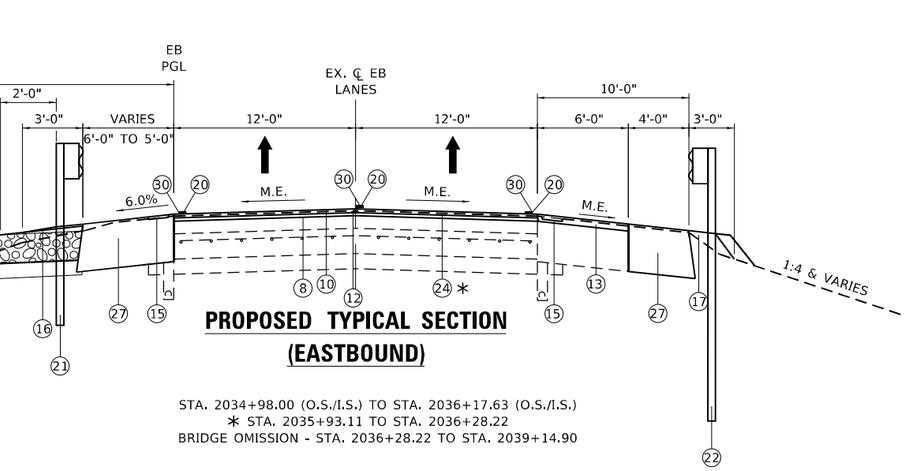


STA. 2029+13.95 (I.S.) TO STA. 2032+37.00 (I.S.)
STA. 2028+41.18 (O.S.) TO STA. 2032+37.00 (O.S.)
BRIDGE OMISSION - STA. 2032+37.00 TO STA. 2034+98.00 (O.S. / I.S.)

∗ STA. 2029+78.69 (O.S.) TO STA. 2032+37.00 (O.S.)
∗∗ STA. 2028+41.18 (O.S.) TO STA. 2029+00.00 (O.S.)



STA. 2034+98.00 (O.S./I.S) TO STA. 2036+17.63 (O.S./I.S.)
∗ STA. 2035+93.70 TO STA. 2036+28.17
BRIDGE OMISSION - STA. 2036+28.17 TO STA. 2039+14.98



STA. 2034+98.00 (O.S./I.S.) TO STA. 2036+17.63 (O.S./I.S.)
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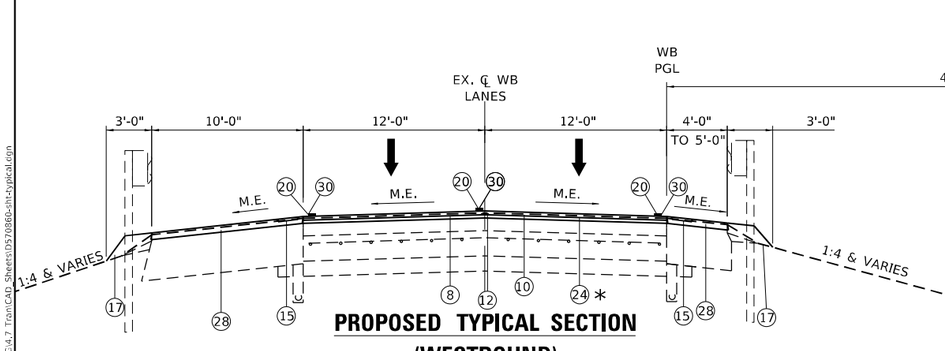
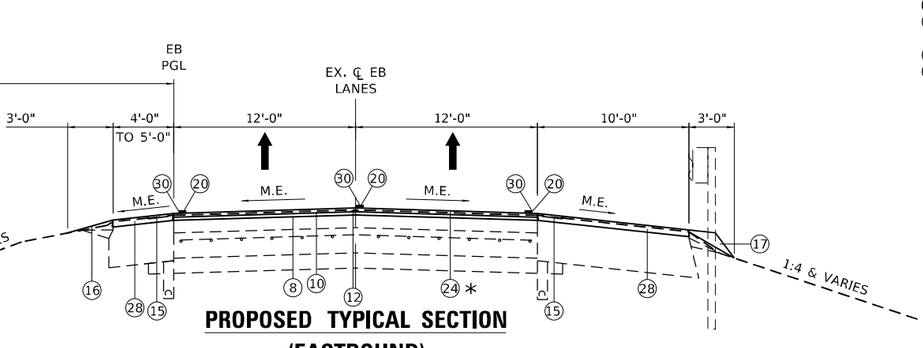
BRIDGE OMISSION - STA. 2036+28.22 TO STA. 2039+14.90



∗ STA. 2039+14.98 TO STA. 2039+49.89
STA. 2039+14.98 (O.S./I.S.) TO STA. 2040+09.89 (O.S./I.S.)



∗ STA. 2039+14.90 TO STA. 2039+49.81
STA. 2039+14.90 (O.S./I.S.) TO STA. 2040+09.81 (O.S./I.S.)

LEGEND

(A) EX. SUBBASE GRANULAR MATERIAL, 6"
(B) EX. SUBBASE GRANULAR MATERIAL, 4"
(C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
(D) EX. PCC PAVEMENT, 10"
(E) EX. WIRE MESH
(F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
(G) EX. FULL-DEPTH HMA PAVEMENT, 18,75"
(H) EX. HMA SHOULDERS, 15"
(I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
(J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
(K) EX. CAM SHOULDERS, 8"
(L) EX. UNDERDRAINS, 6"
(M) EX. UNDERDRAINS, 4"
(N) EX. SHOULDER RUMBLE STRIP
(O) EX. HMA RESURFACING, 3.75"
(P) EX. AGGREGATE SHOULDERS, TYPE B
(Q) EX. GUARDRAIL
(R) EX. HIGH TENSION CABLE MEDIAN BARRIER
(S) EX. SUBBASE GRANULAR MATERIAL, 7"
(T) EX. OIL AND CHIP SURFACE
(U) EX. HMA RESURFACING

(1) PR. HMA SURFACE REMOVAL, 1.25"
(2) PR. HMA SURFACE REMOVAL, 1.5"
(3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
(4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
(5) PR. PAVED SHOULDER REMOVAL
(6) ITEM NOT USED
(7) ITEM NOT USED
(8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/SQ YD
(9) PR. HMA SHOULDERS, 280 LB/SQ YD
(10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/SQ YD (FAI 74)
(11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/SQ YD (GRIFFIN ST.)
(12) PR. LONGITUDINAL JOINT SEALANT
(13) PR. HMA SHOULDERS, 380 LB/SQ YD
(14) PR. HMA SHOULDERS, 17"
(15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
(16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
(17) PR. AGGREGATE SHOULDERS, TYPE B
(18) PR. HMA SHOULDERS, 8"
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(20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
(21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
(22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(23) PR. BRIDGE DECK SCARIFICATION 0.75"
(24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
(25) PR. DIAMOND GRINDING (BRIDGE SECTION)
(26) PR. HMA SHOULDERS, 17.5" TO 18.5"
(27) PR. HMA SHOULDERS 17.75" TO 18.5" — SEE NOTE 1
(28) PR. HMA SHOULDERS 3" TO 2.75"
(29) PR. EMBANKMENT
(30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
(31) PR. STONE DUMPED RIPRAP, CLASS A4
(32) PR. FILTER FABRIC

NOTES:

1. FINAL CONDITION, NOT A PAY ITEM

O.S. - OUTSIDE SHOULDER
I.S. - INSIDE SHOULDER

THESE PROPOSED TYPICALS REPRESENT THE FINAL CONDITIONS AFTER CONSTRUCTION. SEE MAINTENANCE OF TRAFFIC SHEETS FOR STAGE CONSTRUCTION DETAILS.

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

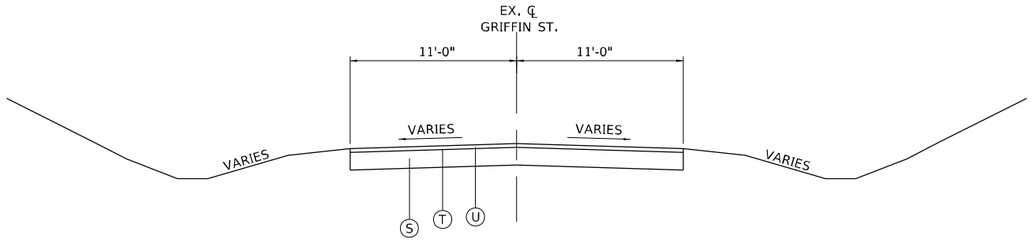
USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
I–74

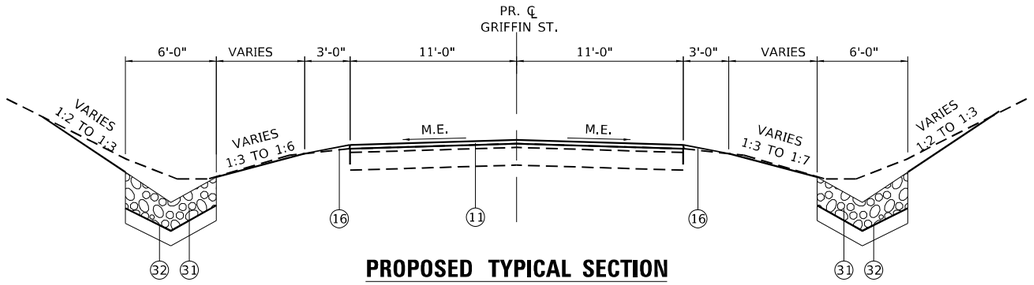
SCALE: N.A. | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	17
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



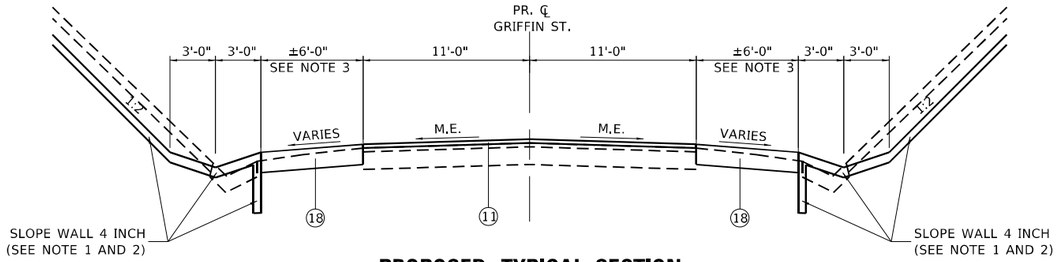
EXISTING TYPICAL SECTION

STA. 48+44.00 TO STA. 51+56.00



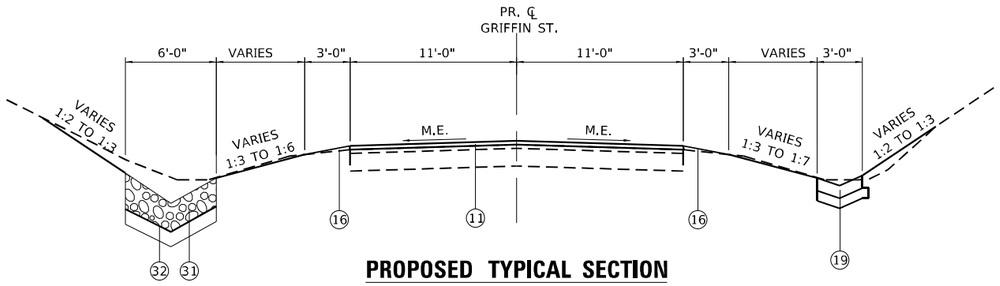
PROPOSED TYPICAL SECTION

STA. 48+44.00 TO STA. 49+39.00



PROPOSED TYPICAL SECTION

STA. 49+39.00 TO STA. 50+61.00



PROPOSED TYPICAL SECTION

STA. 50+61.00 TO STA. 51+56.00

ADDITIONAL NOTES:

1. SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.
2. SEE PLAN AND PROFILE SHEET FOR PROPOSED SLOPE WALL GUTTER FLOW LINE.
3. WIDTH OF PROPOSED HMA SHOULDER VARIES DUE TO FLOW LINE OF PROPOSED SLOPE WALL GUTTER.

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 1.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/SQ YD
- (9) PR. HMA SHOULDERS, 280 LB/SQ YD
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/SQ YD (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/SQ YD (GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 380 LB/SQ YD
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5" — SEE NOTE 1
- (27) PR. HMA SHOULDERS 17.75" TO 18.5" — SEE NOTE 1
- (28) PR. HMA SHOULDERS 3" TO 2.75" — SEE NOTE 1
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

1. FINAL CONDITION, NOT A PAY ITEM

   O.S. - OUTSIDE SHOULDER
   I.S. - INSIDE SHOULDER

THESE PROPOSED TYPICALS REPRESENT THE FINAL CONDITIONS AFTER CONSTRUCTION. SEE MAINTENANCE OF TRAFFIC SHEETS FOR STAGE CONSTRUCTION DETAILS.

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TranCAD Sheets\052086b-clit-typical.dgn

TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
GRIFFIN STREET

SCALE: N.A. | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	18
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL SCHEDULE

LOCATION		28000305 TEMPORARY DITCH CHECKS	28000500 INLET AND PIPE PROTECTION
STATION	LT/RT	FOOT	EACH
I-74			
2025+75.00	RT	10.0	
2028+25.00	LT	10.0	
2029+25.00	LT	10.0	
2031+49.68	LT		1
2035+04.67	RT	10.0	
2035+25.00	LT	10.0	
2035+95.52	RT		1
2036+25.00	LT	10.0	
GRIFFIN STREET			
48+69.60	RT		1
51+29.87	RT		1
PAY TOTAL:		60	4

SEEDING SCHEDULE

LOCATION				25000210 SEEDING, CLASS 2A	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH, METHOD 2	25100630 EROSION CONTROL BLANKET	25100635 HEAVY DUTY EROSION CONTROL BLANKET	28000250 TEMPORARY EROSION CONTROL SEEDING	28001100 TEMPORARY EROSION CONTROL BLANKET	28001200 TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
											6 APPLICATIONS		
STATION	TO	STATION	LT/RT	ACRE	POUND	POUND	POUND	ACRE	SQ YD	SQ YD	POUND	SQ YD	SQ YD
I-74													
2024+25.00	TO	2033+42.62	RT	0.659	58.6	58.6	58.6	0.659	1612.8	1577.1	395.4	1612.8	1577.1
2027+00.00	TO	2033+43.36	LT	0.427	38.4	38.4	38.4	0.427	626.4	1442.9	256.2	626.4	1442.9
2031+39.75	TO	2032+89.85	LT/RT	0.081	7.3	7.3	7.3	0.081	393.9	0.0	48.6	393.9	0.0
2033+88.65	TO	2036+28.22	RT	0.393	36.0	36.0	36.0	0.393	127.3	1772.5	235.8	127.3	1772.5
2033+91.22	TO	2037+35.25	LT	0.505	45.4	45.4	45.4	0.505	578.0	1865.8	303.0	578.0	1865.8
GRIFFIN STREET													
48+44.00	TO	49+39.00	RT	0.016	1.4	1.4	1.4	0.016	78.8	0.0	9.6	78.8	0.0
48+44.00	TO	49+39.00	LT	0.019	1.7	1.7	1.7	0.019	92.4	0.0	11.4	92.4	0.0
50+61.00	TO	51+56.00	RT	0.021	1.9	1.9	1.9	0.021	101.9	0.0	12.6	101.9	0.0
50+61.00	TO	51+56.00	LT	0.018	1.6	1.6	1.6	0.018	84.9	0.0	10.8	84.9	0.0
			TOTAL:	2.139	192.3	192.3	192.3	2.139	3696.3	6658.3	1283.4	3696.3	6658.3
			PAY TOTAL:	2.25	192	192	192	2.25	3696	6658	1283	3696	6658

EARTHWORK SCHEDULE

LOCATION			20200100 EARTH EXCAVATION	FOR INFORMATION ONLY: EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD
I-74						
EB			505	379	406	-27
WB			587	440	220	220
GRIFFIN STREET						
48+44.00	TO	51+56.00	757	568	103	465
SUB-TOTAL:			1849	1387	729	658
PAY TOTAL:			1850			

GUARDRAIL SCHEDULE

LOCATION				63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63200310 GUARDRAIL REMOVAL	72501000 TERMINAL MARKER - DIRECT APPLIED	78200010 BARRIER WALL REFLECTORS, TYPE B*
STATION	TO	STATION	EB/WB	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH
I-74											
2024+63.95	TO	2032+76.45	EB OUT		725.00		1	1	697.1	1	6
2029+13.95	TO	2032+76.45	EB IN	275.00			1	1	450.8	1	4
2029+87.18	TO	2032+76.45	WB OUT		237.50	1	1		222.2		4
2034+55.91	TO	2036+34.10	EB OUT		112.50		2		184.1		4
2034+55.91	TO	2036+34.10	EB IN	112.50			2		183.7		4
2034+55.91	TO	2036+34.10	WB OUT		112.50		2		183.1		4
2034+55.91	TO	2036+34.10	WB IN	112.50			2		183.3		4
			PAY TOTAL:	500	1188	1	11	2	2104	2	30

*SEE BARRIER WALL REFLECTOR SCHEDULE FOR ADDITIONAL QUANTITY

RIPRAP SCHEDULE

LOCATION		28100707 STONE DUMPED RIPRAP, CLASS A4	28200200 FILTER FABRIC
STATION		SQ YD	SQ YD
I-74			
2026+50.00	RT	329.7	329.7
2030+25.00	LT	70.6	70.6
2031+48.40	RT	62.9	62.9
2034+02.72	LT	86.4	86.4
2033+95.13	RT	94.2	94.2
2034+71.52	RT	97.0	97.0
2034+71.52	LT	91.2	91.2
2034+42.52	LT/RT	644.1	644.1
GRIFFIN STREET			
48+50.00	RT	62.8	62.8
48+44.00	LT	64.8	64.8
50+60.15	LT	64.2	64.2
TOTAL:		1668	1668

FENCE SCHEDULE

LOCATION				66400105 CHAIN LINK FENCE, 4'	66500105 WOVEN WIRE FENCE, 4'	X6640300 CHAIN LINK FENCE REMOVAL	X6650202 WOVEN WIRE FENCE REMOVAL
STATION	TO	STATION	LT/RT	FOOT	FOOT	FOOT	FOOT
I-74							
2032+90.85	TO	2033+28.35	RT	92.8			
2032+81.03	TO					118.8	
2032+90.85	TO	2033+41.40	LT	94.1			
2032+80.53	TO					121.1	
2034+04.05	TO	2034+41.52	RT		93.2		
	TO	2034+48.43					118.2
2034+19.37	TO	2034+41.52	LT		97.1		
	TO	2034+50.22					116.1
PAY TOTAL:				187	190	240	234

BARRIER WALL REFLECTOR SCHEDULE

LOCATION			78200010 BARRIER WALL REFLECTORS, TYPE B* AMBER EACH	78200010 BARRIER WALL REFLECTORS, TYPE B* CRYSTAL EACH	78200011 BARRIER WALL REFLECTORS, TYPE C AMBER EACH	78200011 BARRIER WALL REFLECTORS, TYPE C CRYSTAL EACH
I-74						
SN 092-0208	EB	IN	4		4	
		OUT		4		4
SN 092-0209	WB	IN	4		4	
		OUT		4		4
FROM TEMPORARY CONCRETE BARRIER SCHEDULE	EB					225
	WB					
PAY TOTAL:			8	8	8	233
			16		241	

*SEE GUARDRAIL SCHEDULE FOR ADDITIONAL QUANTITY

MODEL: Default
FILE NAME: P:\2020\20080404 CADD - DWG\4.7 TrainCAD_Sheets\0370860-tm-ScheduleA.dgn

TWM ENGINEERING GEOSPATIAL SERVICES — TWM, INC. WWW.TWM-INC.COM — IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher | PLOT SCALE = 40.0000 ' / in. | PLOT DATE = 5/3/2023
DESIGNED - | DRAWN - | CHECKED - | DATE -
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	19
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

PIPE CULVERT SCHEDULE

LOCATION		50104400	50105220	54213669	54248510	542A1069	60920018	60920024
		CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	CONCRETE COLLAR	PIPE CULVERTS, CLASS A, TYPE 2, 24 INCH	PIPE CULVERTS TO BE CLEANED 18"	PIPE CULVERTS TO BE CLEANED 24"
STATION	LT/RT	EACH	FOOT	EACH	CU YD	FOOT	FOOT	FOOT
I-74								
2031+48.40	RT	1	8.0	1	0.45	13.0		
GRIFFIN STREET								
48+69.62	LT/RT						44.2	
51+30.27	LT/RT							48.4
PAY TOTAL:		1	8	1	0.5	13	44	48

TREE REMOVAL SCHEDULE

LOCATION				20100500
				TREE REMOVAL, ACRES
STATION	TO	STATION	LT/RT	ACRE
I-74				
2028+46.11	TO	2029+13.43	RT	0.045
2031+08.52	TO	2033+43.29	RT	0.316
2032+37.00	TO	2033+48.75	LT	0.175
2033+82.99	TO	2037+34.34	LT	0.579
2033+85.45	TO	2035+95.48	RT	0.462
			TOTAL:	1.577
			PAY TOTAL:	1.50

GUTTER SCHEDULE

LOCATION				X6062700
				CONCRETE GUTTER, TYPE A (SPECIAL)
STATION	TO	STATION	LT/RT	FOOT
GRIFFIN STREET				
50+60.70	TO	51+25.00	RT	65.0
			TOTAL:	65

PAVED DITCH SCHEDULE

LOCATION				44004000	X0549200
				PAVED DITCH REMOVAL	CLEANING PAVED DITCH
STATION	TO	STATION	LT/RT	FOOT	FOOT
I-74					
2031+48.40			RT	59.4	
2029+01.75	TO	2033+42.99	RT		441.8
2030+94.62	TO	2033+44.43	LT		255.6
GRIFFIN STREET					
49+48.06	TO	51+25.00	RT	177.7	
49+47.06	TO	51+25.69	LT	179.6	
51+32.55	TO	51+60.96	RT		29.7
			PAY TOTAL:	417	727

PAVEMENT MARKING SCHEDULE

LOCATION						78000400		78008330		78011035	78100100	78300200
						THERMOPLASTIC PAVEMENT MARKING - LINE 6"		POLYUREA PAVEMENT MARKING TYPE II - LINE 6"		GROOVING FOR RECESSED PAVEMENT MARKING 7"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
						YELLOW	WHITE	YELLOW	WHITE			
STATION	TO	STATION		LOCATION	TYPE	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH
I-74												
2013+41.18	TO	2032+37.00	EB	EDGE LINE LT	SOLID	1895.8				1895.8		
				CENTERLINE	SKIP-DASH		474.0			474.0		
				EDGE LINE RT	SOLID		1895.8			1895.8		
2032+37.00	TO	2034+98.00	EB	EDGE LINE LT	SOLID			261.0		261.0		
				CENTERLINE	SKIP-DASH				65.3	65.3		
				EDGE LINE RT	SOLID				261.0	261.0		
2034+98.00	TO	2035+93.11	EB	EDGE LINE LT	SOLID	95.1				95.1		
				CENTERLINE	SKIP-DASH		23.8			23.8		
				EDGE LINE RT	SOLID		95.1			95.1		
2035+93.11	TO	2039+49.81	EB	EDGE LINE LT	SOLID			356.7		356.7		
				CENTERLINE	SKIP-DASH				89.2	89.2		
				EDGE LINE RT	SOLID				356.7	356.7		
2039+49.81	TO	2044+69.39	EB	EDGE LINE LT	SOLID	519.6				519.6		
				CENTERLINE	SKIP-DASH		129.9			129.9		
				EDGE LINE RT	SOLID		519.6			519.6		
2027+71.60	TO	2032+37.00	WB	EDGE LINE LT	SOLID	465.4				465.4		
				CENTERLINE	SKIP-DASH		116.3			116.3		
				EDGE LINE RT	SOLID		465.4			465.4		
2032+37.00	TO	2034+98.00	WB	EDGE LINE LT	SOLID			261.0		261.0		
				CENTERLINE	SKIP-DASH				65.3	65.3		
				EDGE LINE RT	SOLID				261.0	261.0		
2034+98.00	TO	2035+93.70	WB	EDGE LINE LT	SOLID	95.7				95.7		
				CENTERLINE	SKIP-DASH		23.9			23.9		
				EDGE LINE RT	SOLID		95.7			95.7		
2035+93.70	TO	2039+49.89	WB	EDGE LINE LT	SOLID			356.2		356.2		
				CENTERLINE	SKIP-DASH				89.0	89.0		
				EDGE LINE RT	SOLID				356.2	356.2		
2039+49.89	TO	2058+99.88	WB	EDGE LINE LT	SOLID	1950.0				1950.0		
				CENTERLINE	SKIP-DASH		487.5			487.5		
				EDGE LINE RT	SOLID		1950.0			1950.0		
2034+42.52	TO	2035+93.11	EB								4	4
			WB								4	4
2039+49.82	TO	2040+09.81	EB								2	2
			WB								2	2
					PAY TOTAL:	5022	6277	1235	1544	14077	12	12
						11299		2779				

REMOVAL SCHEDULE

LOCATION				40600982	44000100	44000154	44000159	44004250	X4401198	Z0004552
				HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/4"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	APPROACH SLAB REMOVAL
STATION	TO	STATION	EB/WB	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
I-74 (PRE-STAGE)										
2027+71.60	TO	2030+35.00	WB IN					123.6		
2030+35.00	TO	2032+81.73	WB IN				121.7			
2030+36.60	TO	2032+81.00	EB IN				105.0			
2034+50.05	TO	2036+28.22	EB IN				80.3			
2034+51.18	TO	2036+28.17	WB IN				91.3			
2039+14.90	TO	2044+69.39	EB IN				268.7			
2039+14.98	TO	2042+04.47	WB IN				138.3			
I-74 (STAGE 1)										
2028+91.18	TO	2030+05.00	WB OUT					126.1		
2028+41.18	TO	2032+37.00	EB OUT				331.0			
2029+78.69	TO	2032+80.66	EB OUT					99.9		
2030+05.00	TO	2032+37.00	WB OUT				205.3			
2031+05.62	TO	2032+82.05	WB OUT					48.9		
2032+37.00	TO	2032+40.60	EB		4.3					
2032+37.00	TO	2032+41.56	WB		5.7					
2032+40.60	TO	2032+80.84	EB							48.0
2032+41.56	TO	2032+81.98	WB							50.5
2034+50.36	TO	2036+28.22	EB OUT					69.5		
2034+50.48	TO	2034+92.46	EB							51.0
2034+51.61	TO	2034+93.24	WB							50.8
2034+51.63	TO	2036+28.17	WB OUT					65.7		
2034+92.46	TO	2034+98.00	EB		6.8					
2034+93.24	TO	2034+98.00	WB		5.8					
2034+98.00	TO	2036+17.63	EB OUT				81.6			
			WB OUT				79.8			
2039+14.90	TO	2043+49.91	EB OUT				483.2			
2039+14.98	TO	2043+99.89	WB OUT				538.8			
I-74 (STAGE 2)										
2029+13.95	TO	2032+81.01	EB IN					156.1		
2031+84.98	TO	2032+81.73	WB IN					47.6		
2032+37.00	TO	2032+40.60	EB		5.2					
2032+40.60	TO	2032+80.84	EB							58.8
2032+41.56	TO	2032+81.98	WB							56.2
2037+00.00	TO	2032+41.56	WB		6.4					
2034+50.48	TO	2034+92.46	EB							61.3
2034+50.57	TO	2036+28.22	EB IN					80.0		
2034+51.18	TO	2036+28.17	WB IN					91.8		
2034+51.61	TO	2034+93.24	WB							59.5
2034+92.46	TO	2034+98.00	EB		8.1					
2034+93.24	TO	2034+98.00	WB		6.8					
I-74 (STAGE 3)										
2034+98.00	TO	2035+93.11	EB						418.6	
2034+98.00	TO	2035+93.70	WB						421.4	
2035+93.11	TO	2036+17.63	EB IN			14.1				
			EB OUT			27.2				
2035+93.70	TO	2036+17.63	WB IN			13.8				
			WB OUT			26.6				
2039+14.90	TO	2039+49.81	EB IN			19.2				
			EB OUT			38.8				
2039+14.98	TO	2039+49.89	WB IN			19.1				
			WB OUT			38.8				
2039+49.81	TO	2040+09.81	EB						258.5	
2039+49.89	TO	2040+09.89	WB						258.4	

REMOVAL SCHEDULE (CONTINUED)

LOCATION				40600982	44000100	44000154	44000159	44004250	X4401198	Z0004552
				HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/4"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	APPROACH SLAB REMOVAL
STATION	TO	STATION	EB/WB	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
GRIFFIN STREET										
48+44.00	TO	48+64.00	LT/RT	48.1						
51+36.00	TO	51+56.00	LT/RT	46.8						
			PAY TOTAL:	95	49	198	2525	909	1357	436

MAINLINE PAVING SCHEDULE

LOCATION				31100500	40600290	40600370	40600990	40603219	40604050	40604164	42000060	X4201410
				SUBBASE GRANULAR MATERIAL, TYPE A 6" *	BITUMINOUS MATERIALS (TACK COAT) **	LONGITUDINAL JOINT SEALANT	TEMPORARY RAMP	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D" N90 ***	WELDED WIRE REINFORCEMENT	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
STATION	TO	STATION	EB/WB	SQ YD	POUND	FOOT	SQ YD	TON	TON	TON	SQ YD	SQ YD
I-74 (STAGE 1)												
2032+37.00	TO	2032+60.85	EB	44.0							31.8	50.4
2032+37.00	TO	2032+60.85	WB	44.0							31.8	50.4
2034+71.52	TO	2034+98.00	EB	49.6							35.3	55.9
2034+71.52	TO	2034+98.00	WB	49.6							35.3	55.9
2034+98.00	TO	2035+05.50	EB				15.8					
2034+98.00	TO	2035+03.00	WB				10.6					
2035+78.11	TO	2035+93.11	EB				61.1					
2035+78.70	TO	2035+93.70	WB				60.5					
2039+49.82	TO	2039+64.82	EB				68.1					
2039+49.89	TO	2039+64.89	WB				67.9					
I-74 (STAGE 2)												
2032+37.00	TO	2032+60.85	EB	48.7							31.8	55.7
2032+37.00	TO	2032+60.85	WB	48.7							31.8	55.7
2034+71.52	TO	2034+98.00	EB	54.8							35.3	61.8
2034+71.52	TO	2034+98.00	WB	54.8							35.3	61.8
2034+98.00	TO	2035+05.50	EB				17.5					
2034+98.00	TO	2035+03.00	WB				11.7					
2035+78.11	TO	2035+93.11	EB				45.8					
2035+78.70	TO	2035+93.70	WB				45.4					
2039+49.82	TO	2039+64.82	EB				54.6					
2039+49.89	TO	2039+64.89	WB				54.8					
I-74 (STAGE 3)												
2034+98.00	TO	2035+07.16	EB				40.7					
			WB				40.7					
2034+98.00	TO	2035+93.11	EB		171.2	95.1		17.8		21.3		
2034+98.00	TO	2035+93.70	WB		172.3	95.7		17.9		21.4		
2035+83.95	TO	2035+93.11	EB				81.3					
2035+84.54	TO	2035+93.70	WB				80.3					
2039+49.81	TO	2040+09.81	EB		108.0	60.0		11.2		13.4		
2039+49.81	TO	2039+58.96	EB				97.5					
2039+49.89	TO	2039+59.05	WB				97.5					
2039+49.89	TO	2040+09.89	WB		108.0	60.0		11.2		13.4		
2040+09.81	TO	2040+18.97	EB				39.7					
2040+09.89	TO	2040+19.05	WB				39.7					
GRIFFIN STREET												
48+44.00	TO	51+56.00	LT/RT		342.5				63.9			
			PAY TOTAL:	394	902	311	1031	58	64	70	268	447

* SEE SHOULDER SCHEDULE FOR ADDITIONAL QUANTITY

** SEE SHOULDER AND PATCHING SCHEDULES FOR ADDITIONAL QUANTITY

*** SEE STRUCTURAL QUANTITIES FOR ADDITIONAL QUANTITY

MODEL: Default
FILE NAME: P:\2026\20080404 CADD - DWG\4.7 TrainCAD_Sheets\D570860-mn-ScheduleA.dgn

SHOULDER SCHEDULE

LOCATION				31100500	40600290	48101200	48102100	48203029	48203065	48203100	64200116	X4832455
				SUBBASE GRANULAR MATERIAL, TYPE A 6" *	BITUMINOUS MATERIALS (TACK COAT) **	AGGREGATE SHOULDERS, TYPE B	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS, 17"	HOT-MIX ASPHALT SHOULDERS	SHOULDER RUMBLE STRIPS, 16 INCH	PORTLAND CEMENT CONCRETE SHOULDERS 11 1/2" (SPECIAL)
STATION	TO	STATION	EB/WB	SQ YD	POUND	TON	TON	SQ YD	SQ YD	TON	FOOT	SQ YD
I-74 (PRE-STAGE)												
2027+71.60	TO	2032+84.26	WB IN				29.9					
2027+71.60	TO	2030+35.00	WB IN						117.1			
2030+35.00	TO	2032+84.26	WB IN		49.9					15.5		
2030+36.30	TO	2032+84.19	EB IN		49.6		14.5			15.4		
2034+48.49	TO	2036+28.17	WB IN		40.4		10.5			12.6		
2034+48.49	TO	2036+28.22	EB IN		40.4		10.5			12.6		
2039+14.90	TO	2044+69.39	EB IN		124.8		32.3			38.8		
2039+14.98	TO	2042+04.47	WB IN		65.1	45.0				20.3		
I-74 (STAGE 1)												
2024+31.59	TO	2032+60.85	EB OUT			129.0						
2028+41.18	TO	2029+78.69	EB OUT		68.8					21.4		
2028+91.18	TO	2030+05.00	WB OUT				6.6		126.5			
2029+78.69	TO	2032+37.00	EB OUT		103.3				114.8	24.1		
2029+87.18	TO	2032+60.85	WB OUT			42.6						
2034+71.52	TO	2036+28.17	WB OUT			24.4						
2034+71.52	TO	2036+28.22	EB OUT			24.4						
2030+05.00	TO	2031+05.62	WB OUT		50.3					15.7		
2031+05.62	TO	2032+37.00	WB OUT		52.6				58.4	12.3		
2034+98.00	TO	2036+17.63	EB OUT		47.9				53.2	11.2		
			WB OUT		47.9				53.2	11.2		
2036+17.63	TO	2036+28.22	EB	12.8								12.2
2036+17.63	TO	2036+28.17	WB	12.7								12.1
2039+14.90	TO	2043+49.81	EB OUT		217.5	67.7				67.7		
2039+14.98	TO	2043+99.89	WB OUT		242.5	75.4				75.4		
I-74 (STAGE 2)												
2028+53.62	TO	2032+60.85	EB IN			63.3						
2029+13.95	TO	2032+37.00	EB IN						215.4			
2031+89.98	TO	2032+60.85	WB IN				4.1					
2031+89.98	TO	2032+37.00	WB IN						31.4			
2034+98.00	TO	2036+17.63	EB IN						73.6			
			WB IN						73.6			
2036+17.63	TO	2036+28.17	WB	6.9								6.3
2036+17.63	TO	2036+28.22	EB	6.9								6.3
I-74 (STAGE 3)												
2027+71.60	TO	2042+04.47	WB IN								1282.2	
2028+41.18	TO	2043+49.81	EB OUT								1358.0	
2028+91.18	TO	2043+99.89	WB OUT								1358.0	
2029+13.95	TO	2044+69.39	EB IN								1404.8	
2034+98.00	TO	2036+17.63	EB IN		33.1					11.3		
			EB OUT		59.8					20.5		
			WB IN		33.1					11.3		
			WB OUT		59.8					20.5		
2034+98.00	TO	2036+28.17	WB IN				7.6					
2034+98.00	TO	2036+28.22	EB IN				7.6					
2039+14.90	TO	2040+09.81	EB IN		23.7					8.1		
			EB OUT		47.5					16.2		
2039+14.98	TO	2040+09.89	WB IN		23.7					8.1		
			WB OUT		47.5					16.2		

SHOULDER SCHEDULE (CONTINUED)

LOCATION				31100500 SUBBASE GRANULAR MATERIAL, TYPE A 6" *	40600290 BITUMINOUS MATERIALS (TACK COAT) **	48101200 AGGREGATE SHOULDERS, TYPE B	48102100 AGGREGATE WEDGE SHOULDER, TYPE B	48203029 HOT-MIX ASPHALT SHOULDERS, 8"	48203065 HOT-MIX ASPHALT SHOULDERS, 17"	48203100 HOT-MIX ASPHALT SHOULDERS	64200116 SHOULDER RUMBLE STRIPS, 16 INCH	X4832455 PORTLAND CEMENT CONCRETE SHOULDERS 11 1/2" (SPECIAL)
STATION	TO	STATION	EB/WB	SQ YD	POUND	TON	TON	SQ YD	SQ YD	TON	FOOT	SQ YD
GRIFFIN STREET												
48+44.00	TO	49+39.00	RT				5.5					
			LT				5.5					
49+39.00	TO	50+61.00	RT					85.5				
			LT					90.1				
50+61.00	TO	51+56.00	RT				5.5					
			LT				5.5					
			PAY TOTAL:	39	1529	472	146	176	917	466	5403	37

*SEE MAINLINE PAVING SCHEDULE FOR ADDITIONAL QUANTITY

**SEE MAINLINE PAVING AND PATCHING SCHEDULES FOR ADDITIONAL QUANTITY

PIPE UNDERDRAINS SCHEDULE

LOCATION						60100060 CONCRETE HEADWALLS FOR PIPE DRAINS	60108200 PIPE UNDERDRAINS 6" (SPECIAL)	X6010001 CONNECTION OF EXISTING PIPE UNDERDRAIN	X6013700 PIPE UNDERDRAIN REMOVAL (SPECIAL)	X6060101 CLASS SI CONCRETE PIPE UNDER DRAIN OUTLET	Z0040530 PIPE UNDERDRAIN REMOVAL	#5000324 PIPE UNDERDRAIN OUTLET EXTENSION FOR 6" PIPE
STATION	TO	STATION	OFFSET	LT/RT	NOTES	EACH	FOOT	EACH	FOOT	CU YD	FOOT	EACH
I-74												
2027+00.00			65.58	RT	APPRX. 8 FT	1						1
2031+20.00			59.80	RT	APPRX. 5 FT	1						1
2031+40.00			59.36	RT	APPRX. 5 FT	1						1
2032+37.00			62.06	RT		1	17.0	1				
2032+37.00			62.45	LT		1	17.0	1				
2032+27.00	TO	2032+80.00		LT	WB IN						43.0	
2032+27.00	TO	2032+80.00		RT	EB IN						43.0	
2032+27.00	TO	2032+80.00		LT	WB OUT						43.0	
2032+27.00	TO	2032+80.00		RT	EB OUT						43.0	
2034+54.00	TO	2034+98.00		LT	WB IN				44.0			
2034+54.00	TO	2034+98.00		RT	EB IN				44.0			
2034+54.00	TO	2034+98.00		LT	WB OUT				44.0			
2034+54.00	TO	2034+98.00		RT	EB OUT				44.0			
2035+98.00	TO	2036+02.00		LT	WB IN					0.8		
2035+98.00	TO	2036+02.00		RT	EB IN					0.8		
2036+00.00			61.04	RT	APPRX. 6 FT	1						1
2036+00.00			60.66	LT	APPRX. 5 FT	1						1
					TOTAL:	7	34	2	176	1.6	172	5

PATCHING SCHEDULE

LOCATION					40600290 BITUMINOUS MATERIALS (TACK COAT) *	X4406220 PARTIAL DEPTH REMOVAL, TYPE II, 2"	X4421000 PARTIAL DEPTH PATCHING **
STATION	DIRECTION	LANE	LENGTH	WIDTH	POUND	SQ YD	TON
I-74							
2032+27.00	EB	RT	10	12	6.0	13.3	1.5
2032+27.00	EB	LT	10	12	6.0	13.3	1.5
2032+27.00	WB	RT	10	12	6.0	13.3	1.5
2032+27.00	WB	LT	10	12	6.0	13.3	1.5
				PAY TOTAL:	24	53	6

* SEE MAINLINE PAVING AND SHOULDER SCHEDULES FOR ADDITIONAL QUANTITY

**THE INTENT OF THE PARTIAL DEPTH PATCH IS TO CREATE A SMOOTH TRANSITION BETWEEN THE CONNECTOR PAVEMENT AND THE EXISTING ROADWAY

TEMPORARY CONCRETE BARRIER SCHEDULE

STATION	TO	STATION	LOCATION	STAGE	TEMPORARY CONCRETE BARRIER 70400100	RELOCATE TEMPORARY CONCRETE BARRIER 70400200	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 70600250	IMPACT ATTENUATORS RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 70600350	PINNING TEMP. CONCRETE BARRIER 70400125	BARRIER WALL REFLECTORS 78200011
					FOOT	FOOT	EACH	EACH	EACH	EACH
FAI 74										
2029+32		2030+06	EAST BOUND	PRE	575		1			23
2030+82		2032+06	EAST BOUND	1	950		1		57	38
2030+57		2040+31	EAST BOUND	2	25	950		1		39
2031+72		2043+10	WEST BOUND	PRE	1137.5		1			46
2031+72		2041+59	WEST BOUND	1	987.5		1		57	40
2040+35		2041+85	WEST BOUND	2		975		1		39
SUBTOTAL					3675	1925	4	2	114	225
TOTAL					3675	1925	4	2	114	225

REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT
X0327640
9 CAL MO

REAL-TIME TRAFFIC CONTROL SENSOR UNIT
X0327641
126 CAL MO

REAL-TIME TRAFFIC CONTROL WARNING SIGN
X0328006
54 CAL MO

TEMPORARY RUMBLE STRIPS (SPECIAL)
X2700001
16 EACH

WIDTH RESTRICTION SIGNING
X7200201
1 L SUM

TRAFFIC CONTROL AND PROTECTION, STANDARD 701411
70100420
1 EACH

TRAFFIC CONTROL AND PROTECTION, STANDARD 701401
70100800
1 LSUM

TRAFFIC CONTROL AND PROTECTION, STANDARD 701402
70100207
2 EACH

CHANGEABLE MESSAGE SIGN 70107025

LOCATION	CAL DAY
1 -CMS SHALL BE LOCATED ON THE EB FAI 74 TRAFFIC LANES WEST OF THE PROJECT LIMITS	7
1 -CMS SHALL BE LOCATED ON THE EB FAI 74 TRAFFIC LANES EAST OF THE PROJECT LIMITS	7
1 -CMS SHALL BE LOCATED ON THE EB FAI 74 TRAFFIC LANES WEST OF THE PROJECT LIMITS	7
1- CMS SHALL BE LOCATED ON THE WB FAI 74 TRAFFIC LANES EAST OF THE PROJECT LIMITS	7
1 -CMS SHALL BE LOCATED ON THE NB GRIFFIN STREET TRAFFIC LANE SOUTH OF THE PROJECT LIMITS	7
1 -CMS SHALL BE LOCATED ON THE SB GRIFFIN STREET TRAFFIC LANE NORTH OF THE PROJECT LIMITS	7
TOTAL	42

TEMPORARY PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	STAGE	LENGTH	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT 70300241			PAVEMENT MARKING BLACKOUT TAPE, 5" 70107005	PAVEMENT MARKING REMOVAL - WATER BLASTING 78300202	SHORT TERM PAVEMENT MARKING 70300100	SHORT TERM PAVEMENT MARKING REMOVAL 70300150	COMMENTS
					SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE					
				FEET	FOOT	FOOT	FOOT	FEET	SQ FT	FEET	SQ FT	
FAI 74 - EAST BOUND												
2013+86		2023+86	PRE	1000				275			114.6	COVER SKIP DASH AND RPM'S ON LANE CLOSURE TAPER
2028+86		2044+69	PRE	1583					659.7			REMOVE CONFLICTING PAVEMENT MARKINGS
2028+86		2044+69	PRE	1583		1583.0	396.0					MARKINGS FOR WINTER SHUTDOWN BETWEEN PRE STAGE AND STAGE 1
2015+37		2025+37	1	1000				275			114.6	COVER SKIP DASH AND RPM'S ON LANE CLOSURE TAPER
2030+37		2044+69	1	1432					477.3			REMOVE CONFLICTING PAVEMENT MARKINGS
2013+41		202341	2	1000				275			114.6	COVER SKIP DASH AND RPM'S ON LANE CLOSURE TAPER
2028+41		204350	2	1509					503.0			REMOVE CONFLICTING PAVEMENT MARKINGS
2034+98		204010	3	512						266	44.3	2 APPLICATIONS (REMOVAL - 1 APPLICATION)
2013+41		2044+69	3	3128	3128.2	3128.2	782.1		3,519.3			FOR WINTER SHUTDOWN (IF NECESSARY)
FAI 74 - WEST BOUND												
2048+55		2058+55	PRE	1000				275			114.6	
2031+72		2043+55	PRE	1183					493.0			REMOVE CONFLICTING PAVEMENT MARKINGS
2031+72		2043+55	PRE	1183		1183.0	296.0					MARKINGS FOR WINTER SHUTDOWN BETWEEN PRE STAGE AND STAGE 1
2047+05		2057+05	1	1000				275			114.6	COVER SKIP DASH AND RPM'S ON LANE CLOSURE TAPER
2027+72		2042+05	1	1433					477.7			REMOVE CONFLICTING PAVEMENT MARKINGS
2049+12		2050+12	2	100				275			114.6	COVER SKIP DASH AND RPM'S ON LANE CLOSURE TAPER
2028+91		2044+00	2	1509					503.0			REMOVE CONFLICTING PAVEMENT MARKINGS
2034+98		2040+10	3	512						266	44.3	
2027+72		2040+10	3	1238	3128.2	782.1	3128.2		3,519.3			FOR WINTER SHUTDOWN (IF NECESSARY)
TOTAL					6,256.4	6,676.3	4,602.3	1,650.0	10,152.2	532.0	776.2	
USE					17,535			1,650	10,153	532	777	

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = rhanfland	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 5/2/2023	DATE -	REVISED -

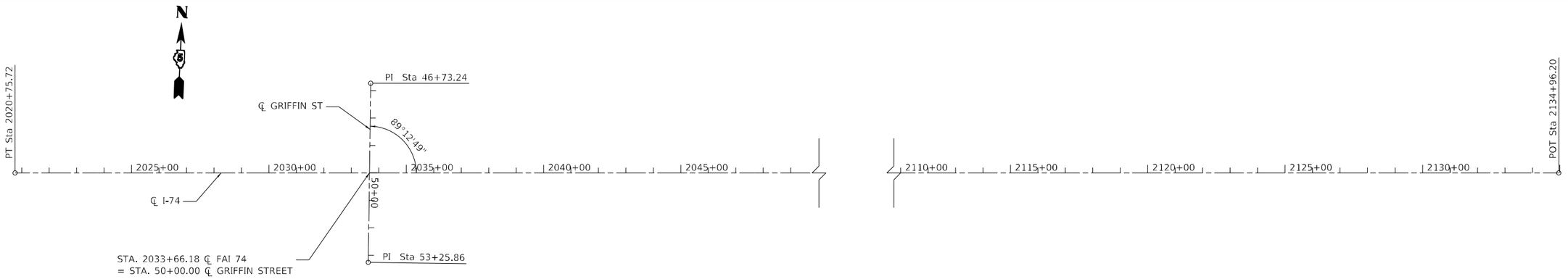
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	25
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\Effingham\4721 - IDOT PTB 197-027 D5_I-74 Danville Bridges\CADD\Project Drawings\70570860-ScheduleEx.dgn



EXISTING BENCHMARKS

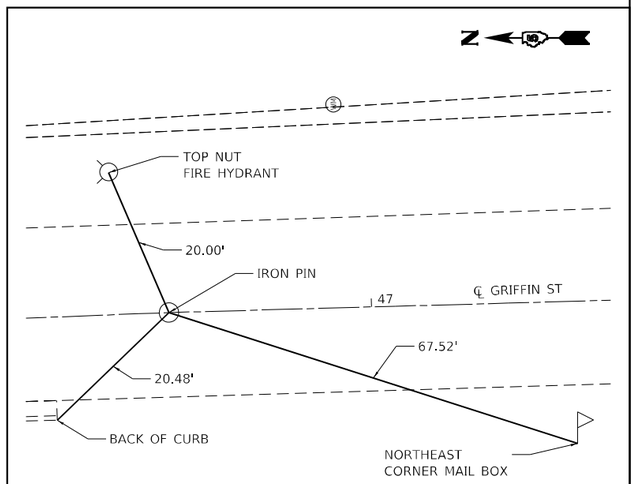
BENCKMARK POINT	NAVD 1988 DATUM ELEVATION	DESCRIPTION	STA.	OFFSET
4965-1	582.06	TOP OF PIN WITH CAP NEAR PERMANENT SURVEY MARKER	2020+75.72	0.00
4965-2	582.75	CHISELED SQUARE ON TOP SE OF WINGWALL SN 092-0018	2038+99.23	55.11 RT
4965-3	549.39	CHISELED "X" ON BOLT ON TOP FLANGE OF FIRE HYDRANT	52+60.49	15.46 LT
4965-4	550.63	CHISELED "X" ON BOLT ON TOP FLANGE OF FIRE HYDRANT	46+65.87	18.32 LT
TBM 11	582.93	CHISELED SQUARE ON TOP OF SW WINGWALL SN 092-0017	2032+71.11	12.66' LT

CENTERLINE CONTROL POINTS: I–74

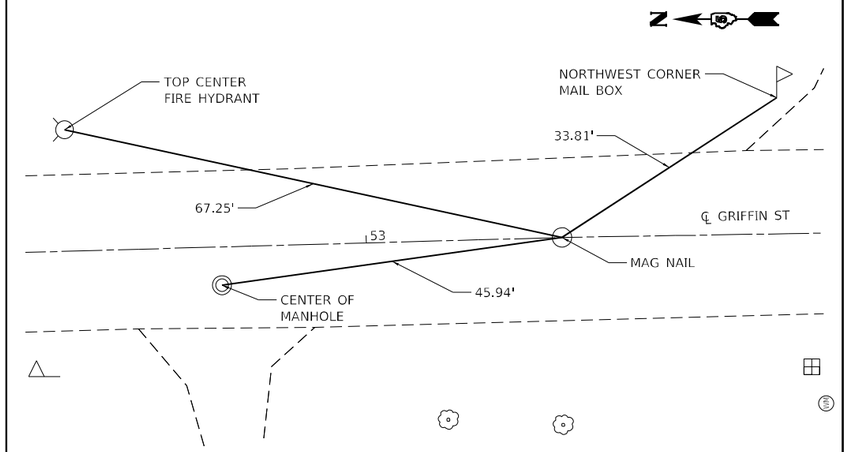
POINT NUMBER	TYPE	NORTHING	EASTING	STA.	OFFSET
205	POT	1256826.3640	1198907.8930	2134+96.20	0.00
216	PT	1256352.0659	1187497.2579	2020+75.72	0.00

CENTERLINE CONTROL POINTS: GRIFFIN STREET

POINT NUMBER	TYPE	NORTHING	EASTING	STA.	OFFSET
6	MAG NAIL	1256079.9274	1188795.6733	53+25.86	0.00
11	IRON PIN	1256732.2923	1188777.5229	46+73.24	0.00



PI #11 STA. 46+73.24



PI #6 STA. 53+25.86

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 Tran\CAD Sheets\D5710860-GHT-ATR.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 400.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	26
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

AC AC AC AC AC AC

PR. LIMITS OF CONSTRUCTION

BEGIN PROJECT
STA. 2024+27.26

PGL I-74 WB

2024 2025+00 2026 2027 +71.60 2028 2029

2024 2025+00 2026 2027 2028 2029

℄ I-74 ALIGNMENT

2024 2025+00 2026 2027 2028 2029

MATCHLINE STATION 2029+50.00

PGL I-74 EB

TREE REMOVAL, ACRES
0.045 ACRES

PR. LIMITS OF CONSTRUCTION

AC AC AC AC AC AC

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TrainCAD Sheets\D5708606-sht-rem_overstage-01.dgn

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
PRE–STAGE

SCALE: 1"=20' | SHEET 1 OF 13 SHEETS | STA. 2024+27.26 TO STA. 2029+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	27
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

MATCHLINE STATION 2029+50.00

MATCHLINE STATION 2035+50.00

PR. LIMITS OF CONSTRUCTION

PR. TREE REMOVAL, ACRES
0.175 ACRES

CHAIN LINK FENCE REMOVAL

WOVEN WIRE FENCE REMOVAL

PR. LIMITS OF CONSTRUCTION

PR. TREE REMOVAL, ACRES
0.579 ACRES

GRIFFIN STREET

PGL I-74 WB

2030+00 2031 2032 2033 2034 2035+00

+35.00

+36.60

+81.73

+81.00

+51.18

+50.05

STA. 2033+66.18 ℄ FAI 74 =
STA. 50+00.00 ℄ GRIFFIN STREET

℄ I-74 ALIGNMENT

PGL I-74 EB

PR. LIMITS OF CONSTRUCTION

PR. TREE REMOVAL, ACRES
0.316 ACRES

CHAIN LINK FENCE REMOVAL

PR. LIMITS OF CONSTRUCTION

PR. TREE REMOVAL, ACRES
0.462 ACRES

WOVEN WIRE FENCE REMOVAL

I 51

I 52

AC

CTV

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\00840\d CADD - DWG\d4.7 Trans\CAD Sheets\D2370860-hh-em -prestage-02.dgn

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -
			DRAWN -	REVISED -
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY REMOVAL PLAN
PRE-STAGE

SCALE: 1"=20' | SHEET 2 OF 13 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	28
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

MATCHLINE STATION 2035+50.00

MATCHLINE STATION 2041+50.00

PR. LIMITS OF CONSTRUCTION

TREE REMOVAL (SEE ROADWAY REMOVAL PLAN SHEET 2)

STONY CREEK

PGL I-74 WB

℄ I-74 ALIGNMENT

PGL I-74 EB

2036 2037 2038 2039 2040+00 2041

+28.17 +28.22 +14.98 +14.90

AC

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20084004 CADD - DWG\4.7 TranCAD Sheets\D570866-thr-rem_orestage-03.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES — TWM, INC. WWW.TWM-INC.COM — IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN -	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
	PLOT DATE = 4/27/2023	DATE -	REVISED -	

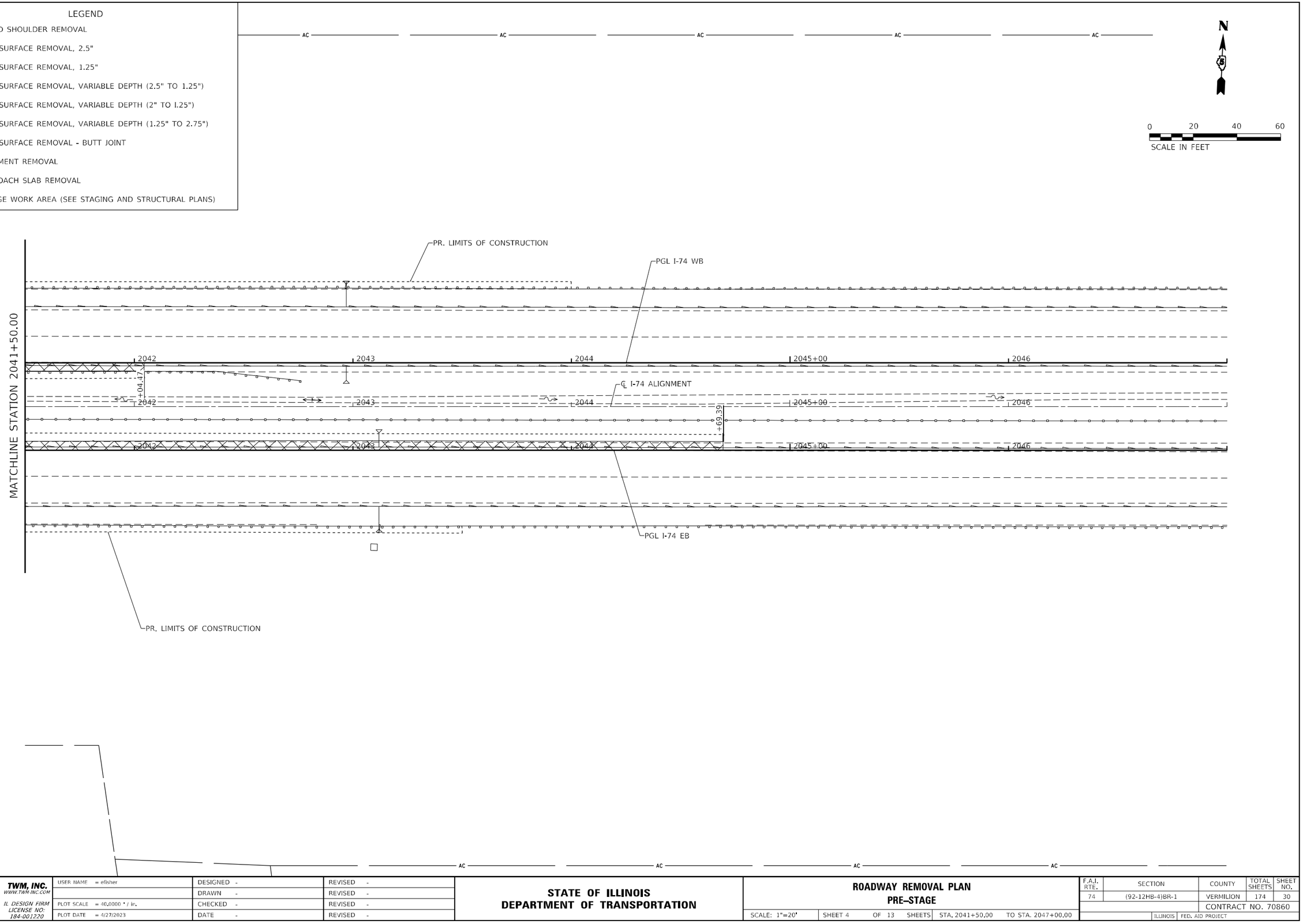
ROADWAY REMOVAL PLAN
PRE-STAGE

SCALE: 1"=20' | SHEET 3 OF 13 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	29
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)



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TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
PRE–STAGE

SCALE: 1"=20' | SHEET 4 OF 13 SHEETS | STA. 2041+50.00 TO STA. 2047+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	30
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

AC AC AC AC AC AC

PR. LIMITS OF CONSTRUCTION

PGL I-74 WB

+91.18

2024 2025+00 2026 2027 2028 2029

℄ I-74 ALIGNMENT

2024 2025+00 2026 2027 2028 2029

+41.18

MATCHLINE STATION 2029+50.00

PGL I-74 EB

GUARDRAIL REMOVAL

PR. LIMITS OF CONSTRUCTION

AC AC AC AC AC AC

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2026\2008404\4 CADD - DWG\4.7 TrainCAD Sheets\D570866-ihl-rem_stage1-01.cign

TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM

IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY REMOVAL PLAN
STAGE 1

SCALE: 1"=20' | SHEET 5 OF 13 SHEETS | STA. 2024+27.26 TO STA. 2029+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	31
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

MATCHLINE STATION 2029+50.00

MATCHLINE STATION 2035+50.00

PR. LIMITS OF CONSTRUCTION

PGL I-74 WB

PGL I-74 EB

℄ I-74 ALIGNMENT

GRIFFIN STREET

STA. 2033+66.18 ℄ FAI 74 =
STA. 50+00.00 ℄ GRIFFIN STREET

EX. CREOSOTED TIMBER PILES WITH CONCRETE PILE CAP

PIPE UNDERDRAIN REMOVAL

PIPE UNDERDRAIN REMOVAL (SPECIAL)

GUARDRAIL REMOVAL

PIPE CULVERT REMOVAL (TO FIRST JOINT)

CONCRETE HEADWALL REMOVAL

PAVED DITCH REMOVAL

+05.00 +05.62 +37.00 +98.00 +78.69

2030+00 2031 2032 2033 2034 2035+00

49 51 52

AC CTV

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TranCAD Sheets\0957086B-sht-dem-stage1-02.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -
			DRAWN -	REVISED -
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY REMOVAL PLAN
STAGE 1

SCALE: 1"=20' | SHEET 6 OF 13 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	32
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

PR. LIMITS OF CONSTRUCTION

GUARDRAIL REMOVAL

STONY CREEK

PGL I-74 WB

PR. LIMITS OF CONSTRUCTION

MATCHLINE STATION 2035+50.00

MATCHLINE STATION 2041+50.00

2036 2037 2038 2039 2040+00 2041

℄ I-74 ALIGNMENT

+17.63 +28.17 +14.98

+17.63 +28.22 +14.90

PGL I-74 EB

GUARDRAIL REMOVAL

PR. LIMITS OF CONSTRUCTION

PR. LIMITS OF CONSTRUCTION

AC

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20884\04 CADD - DWG\4.7 TranCAD Sheets\D570860-sht-rem_stage1-03.dgn

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
STAGE 1

SCALE: 1"=20' | SHEET 7 OF 13 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	33
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

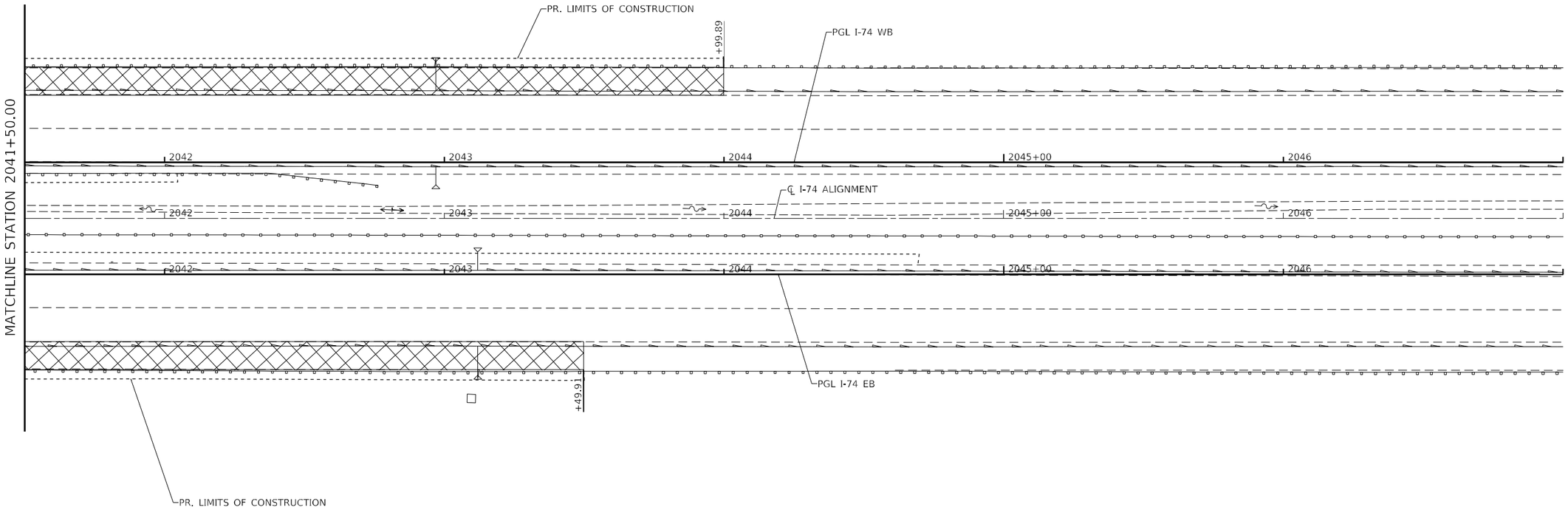
LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

AC AC AC AC AC

N

0 20 40 60
SCALE IN FEET



AC AC AC AC

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TranCAD Sheets\05708860-sht-rem-stage1-04.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
STAGE 1

SCALE: 1"=20' | SHEET 8 OF 13 SHEETS | STA. 2041+50.00 TO STA. 2047+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	34
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

AC AC AC AC AC AC

PR. LIMITS OF CONSTRUCTION

PGL I-74 WB

2024 2025+00 2026 2027 2028 2029

2024 2025+00 2026 2027 2028 2029

℄ I-74 ALIGNMENT

+13.95

GUARDRAIL REMOVAL

2024 2025+00 2026 2027 2028 2029

MATCHLINE STATION 2029+50.00

PGL I-74 EB

AC AC AC AC AC AC

PR. LIMITS OF CONSTRUCTION

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TrainCAD Sheets\D5708606-int-rem_stage2-01.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
STAGE 2

SCALE: 1"=20' | SHEET 9 OF 13 SHEETS | STA. 2024+27.26 TO STA. 2029+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	35
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

MATCHLINE STATION 2029+50.00

MATCHLINE STATION 2035+50.00

PR. LIMITS OF CONSTRUCTION

PGL I-74 WB

EX. CREOSOTED TIMBER PILES WITH CONCRETE PILE CAP

PIPE UNDERDRAIN REMOVAL

69 GRIFFIN STREET

EX. CREOSOTED TIMBER PILES WITH CONCRETE PILE CAP

PIPE UNDERDRAIN REMOVAL (SPECIAL)

GUARDRAIL REMOVAL

2030+00 2031 2032 2033 2034 2035+00

+84.98

+37.00

+37.00

℄ I-74 ALIGNMENT

STA. 2033+66.18 ℄ FAI 74 =
STA. 50+00.00 ℄ GRIFFIN STREET

50+00

+98.00

+98.00

2030+00 2031 2032 2033 2034 2035+00

PGL I-74 EB

PIPE UNDERDRAIN REMOVAL

EX. CREOSOTED TIMBER PILES WITH CONCRETE PILE CAP

GUARDRAIL REMOVAL

PIPE UNDERDRAIN REMOVAL (SPECIAL)

EX. CREOSOTED TIMBER PILES WITH CONCRETE PILE CAP

PR. LIMITS OF CONSTRUCTION

51

52

AC

CTV

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TranCAD Sheets\0570886-sht-xem-stage2-02.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
STAGE 2

SCALE: 1"=20' | SHEET 10 OF 13 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	36
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

PR. LIMITS OF CONSTRUCTION

GUARDRAIL REMOVAL

STONY CREEK

PGL I-74 WB

PR. LIMITS OF CONSTRUCTION

MATCHLINE STATION 2035+50.00

2036 2037 2038 2039 2040+00 2041

+28.17

+28.22

℄ I-74 ALIGNMENT

AC

MATCHLINE STATION 2041+50.00

GUARDRAIL REMOVAL

PGL I-74 EB

PR. LIMITS OF CONSTRUCTION

PR. LIMITS OF CONSTRUCTION

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20084004 CADD - DWG\4.7 TranCAD Sheets\D570860-itn-rem_stage2-03.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
STAGE 2

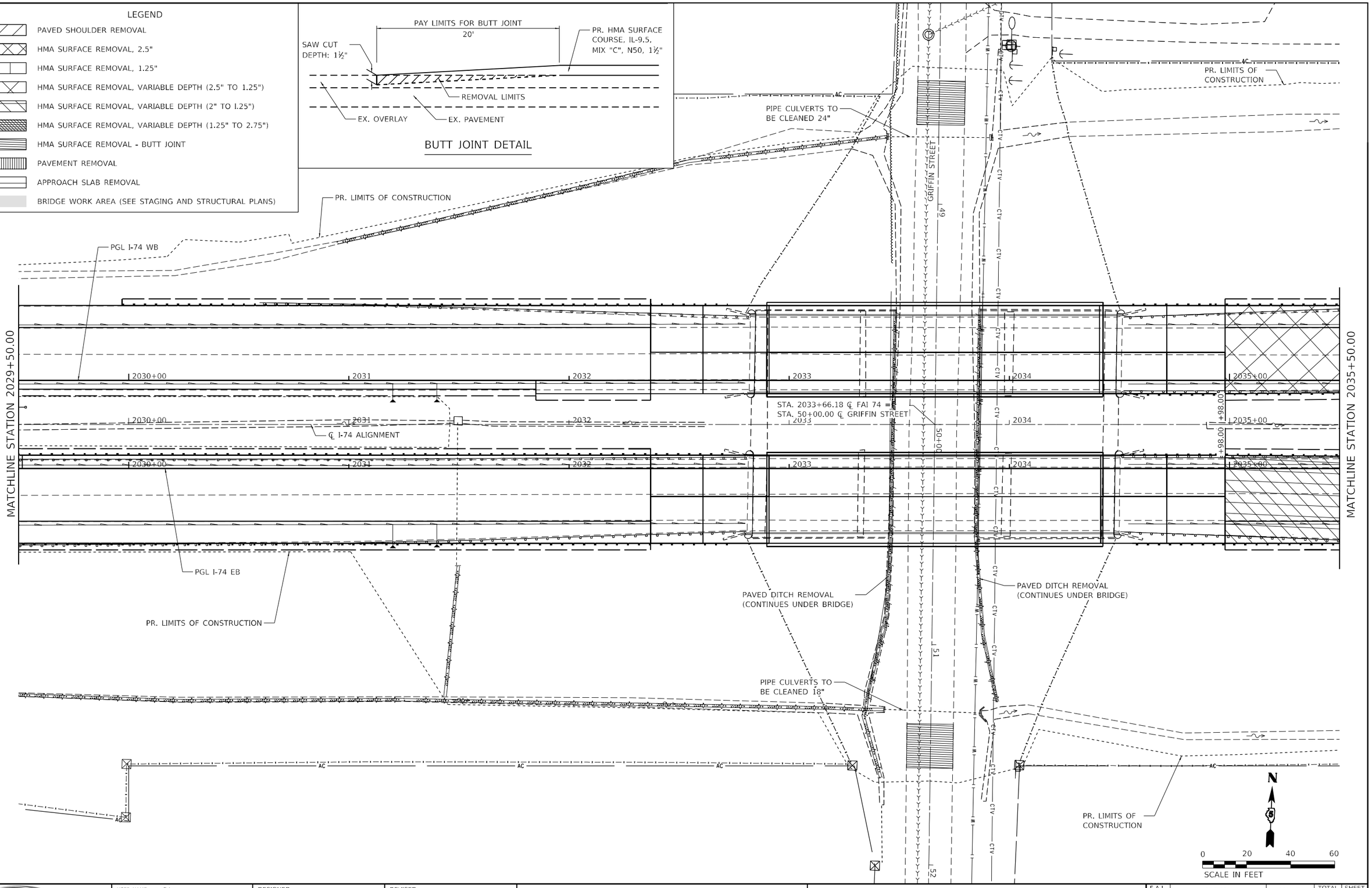
SCALE: 1"=20' | SHEET 11 OF 13 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	37
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

BUTT JOINT DETAIL



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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -
			DRAWN -	REVISED -
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY REMOVAL PLAN
STAGE 3

SCALE: 1"=20' | SHEET 12 OF 13 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	38
		CONTRACT NO. 70860		
		ILLINOIS FED. AID PROJECT		

LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2.5"
- HMA SURFACE REMOVAL, 1.25"
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2.5" TO 1.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (2" TO I.25")
- HMA SURFACE REMOVAL, VARIABLE DEPTH (1.25" TO 2.75")
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- BRIDGE WORK AREA (SEE STAGING AND STRUCTURAL PLANS)

PR. LIMITS OF CONSTRUCTION

STONY CREEK

PGL I-74 WB

PGL I-74 EB

℄ I-74 ALIGNMENT

MATCHLINE STATION 2035+50.00

MATCHLINE STATION 2041+50.00

2036 2037 2038 2039 2040+00 2041

+93.70 +17.63 +14.98 +49.89 +09.89

+93.11 +17.63 +14.90 +49.81 +09.81

AC

N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20084004 CADD - DWG\4.7 Tran\CAD\Sheets\057D860-sht-rem_stage3-03.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

ROADWAY REMOVAL PLAN
STAGE 3

SCALE: 1"=20' | SHEET 13 OF 13 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	39
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND

1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND

- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

- PRE-STAGE
- STAGE 1

2024+00.00
140.00' LT

2029+00.00
140.00' LT

AC

PR. DITCH

PR. LIMITS OF CONSTRUCTION

EX. HIGH TENSION CABLE MEDIAN BARRIER TO REMAIN IN PLACE

+25.00

+91.18

BEGIN PROJECT
STA. 2024+27.26

PGL I-74 WB

10'
12'
12'
4'

I-74 WB

2024 2025+00 2026 2027 2028 2029

+71.60

℄ I-74 ALIGNMENT

I-74 EB

PGL I-74 EB

+00.00

PR. DITCH

+50.00

+41.18

SEE NOTE 1

SEE NOTE 2

CLEANING PAVED DITCH

PR. LIMITS OF CONSTRUCTION

2026+38.80
140.00' RT

MATCHLINE STATION 2029+50.00

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2070\2008404 CADD - DWG\4.7 TrainCAD Sheets\D5708606-int-plh-01.dgn

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			DRAWN -	REVISED -
	IL DESIGN FIRM LICENSE NO: 184-001220	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET (PRE–STAGE AND STAGE 1)
I–74

SCALE: 1"=20' | SHEET 1 OF 9 SHEETS | STA. 2024+27.26 TO STA. 2029+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	40
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND

1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND

- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

PRE-STAGE
STAGE 1

MATCHLINE STATION 2029+50.00

2031+44.30
140.00' LT

PR. LIMITS OF CONSTRUCTION

PR. DITCH

SEE NOTE 2

PGL I-74 WB

CLEANING PAVED DITCH

STA. 2032+60.85 BK. W.
APPROACH SLAB

STA. 2032+37.00 BK. W.
BRIDGE APPROACH PAVEMENT
CONNECTOR (SPECIAL)

SEE NOTE 1

EX. SN 092-0017
STA. 2033+66.18
PROPOSED BRIDGE REPLACEMENT
PR. SN 092-0209
SINGLE SPAN
152'-8" BACK TO BACK OF ABUTMENTS
90° TO FAI 74

2033+47.00
150.00' LT

GRIFFIN STREET

69'

PR. LIMITS OF CONSTRUCTION

2034+19.35
165.00' LT

PR. LIMITS OF CONSTRUCTION

PR. DITCH

SEE NOTE 2

STA. 2034+71.52 BK. E.
APPROACH SLAB

SEE NOTE 1

STA. 2034+98.00 BK. E.
BRIDGE APPROACH
PAVEMENT CONNECTOR
(SPECIAL)

+25.00
+75.00
+05.00
+05.62
+35.00
+36.30
+78.69
+48.40

10'
3'
12'
6'
4'
3'
19'

I-74 WB

2030+00
2031
2032
2033
2034
2035+00

℄ I-74 ALIGNMENT

EX. DITCH

PR. DITCH

*89°12'49"

*SKEW TO GRIFFIN STREET BELOW

STA. 2033+66.18 ℄ FAI 74 =
STA. 50+00.00 ℄ GRIFFIN STREET

50+00

I-74 EB

PGL I-74 EB

PR. CONCRETE COLLAR

PR. PIPE CULVERTS, CLASS A, TYPE 2 24" WITH PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

PR. LIMITS OF CONSTRUCTION

SEE NOTE 2

SEE NOTE 1

STA. 2032+37.00 BK. W.
BRIDGE APPROACH
PAVEMENT CONNECTOR
(SPECIAL)

STA. 2032+60.85 BK. W.
APPROACH SLAB

EX. SN 092-0016
STA. 2033+66.18
PROPOSED BRIDGE REPLACEMENT
PR. SN 092-0208
SINGLE SPAN
152'-8" BACK TO BACK OF ABUTMENTS
90° TO FAI 74

51'

52'

SEE NOTE 2

STA. 2034+98.00 BK. E.
BRIDGE APPROACH
PAVEMENT CONNECTOR
(SPECIAL)

SEE NOTE 1

STA. 2034+71.52 BK. E.
APPROACH SLAB

CLEANING PAVED DITCH

PR. DITCH

2030+00.00
155.00' RT

2030+00.00
180.00' RT

2033+29.67
155.00' RT

2034+04.67
155.00' RT

PR. LIMITS OF CONSTRUCTION

2033+39.00
200.37' RT

PR. LIMITS OF CONSTRUCTION

MATCHLINE STATION 2035+50.00

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TranCAD Sheets\0570860-sht-plh-02.dgn

TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO- 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

PLAN SHEET (PRE-STAGE AND STAGE 1)
I-74

SCALE: 1"=20' | SHEET 2 OF 9 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	41
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

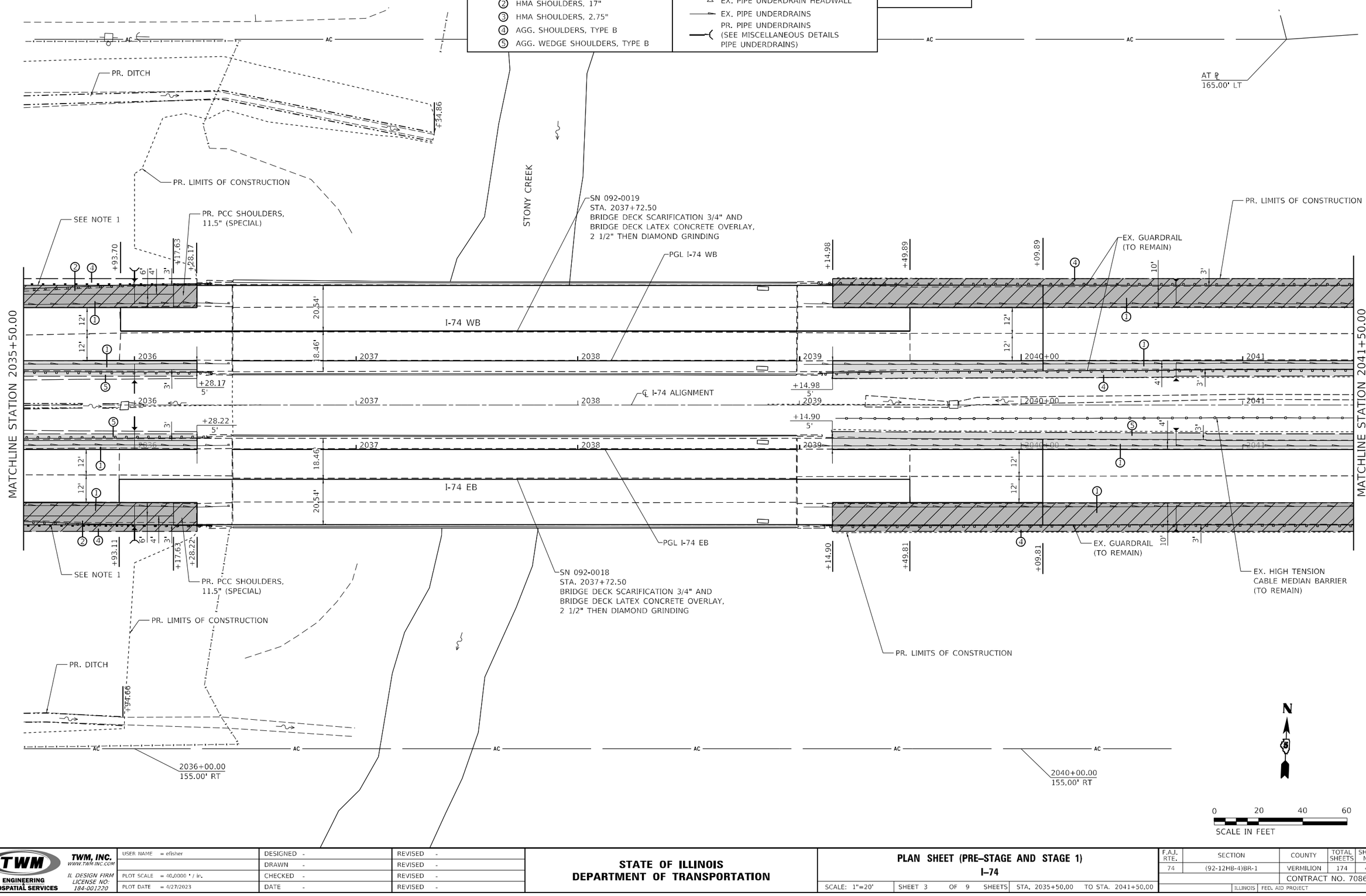
PROPOSED SHOULDER LEGEND

1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND

- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

PRE-STAGE
STAGE 1



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	IL DESIGN FIRM LICENSE NO: 184-001220	PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -	
		PLOT DATE = 4/27/2023	CHECKED -	REVISED -	
			DATE -	REVISED -	

PLAN SHEET (PRE-STAGE AND STAGE 1)
I-74

SCALE: 1"=20' | SHEET 3 OF 9 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

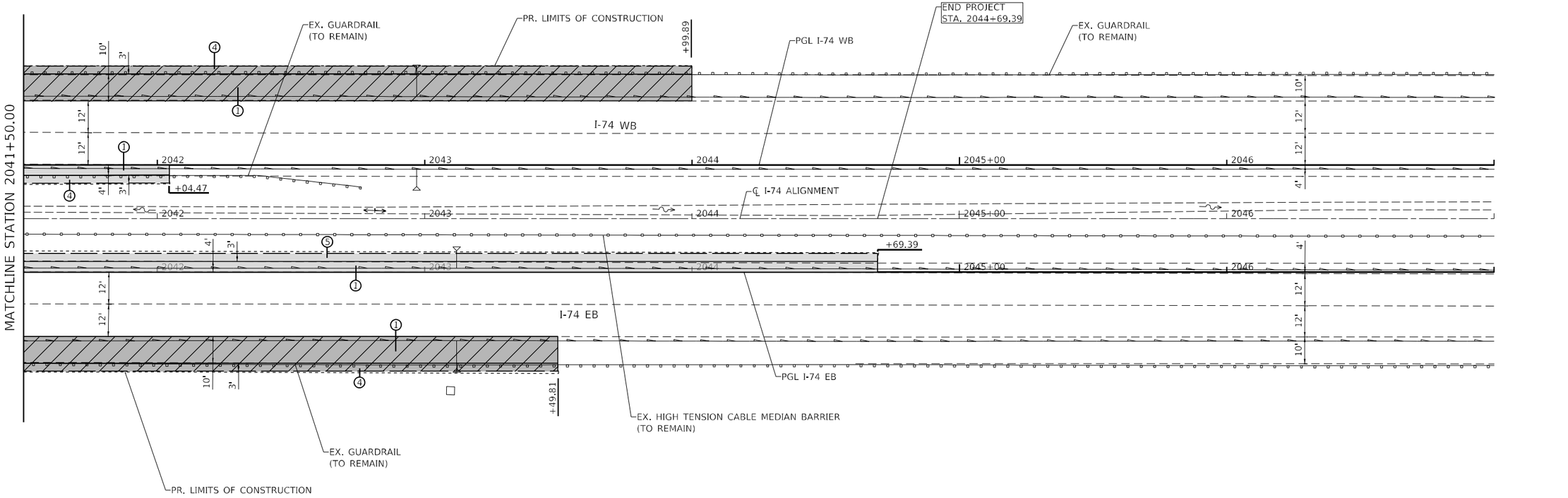
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	42
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

PROPOSED SHOULDER LEGEND	PIPE UNDERDRAINS LEGEND	
① HMA SHOULDERS, 2.5"	▲ EX. FRENCH DRAIN	PRE-STAGE
② HMA SHOULDERS, 17"	△ EX. PIPE UNDERDRAIN HEADWALL	STAGE 1
③ HMA SHOULDERS, 2.75"	EX. PIPE UNDERDRAINS	
④ AGG. SHOULDERS, TYPE B	PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)	
⑤ AGG. WEDGE SHOULDERS, TYPE B		

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

N

0 20 40 60
SCALE IN FEET



USER NAME = efisher	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

TWM ENGINEERING & GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET (PRE–STAGE AND STAGE 1)
I–74

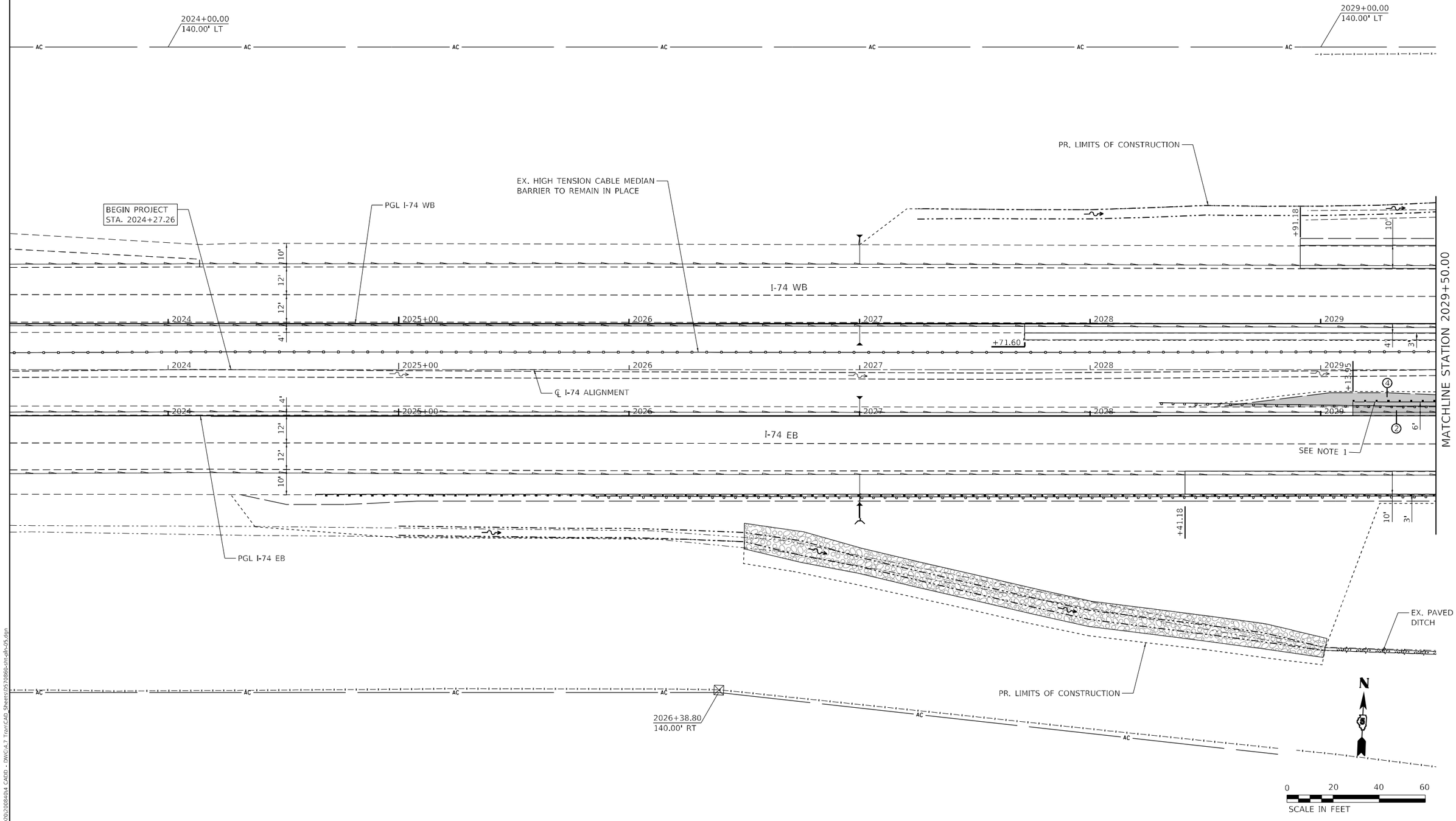
SCALE: 1"=20' | SHEET 4 OF 9 SHEETS | STA. 2041+50.00 TO STA. 2047+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	43
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\2020\20084004 CADD - DWG\4.7 TranCAD_Sheets\D5720860-sht-plh-04.dgn

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND	PIPE UNDERDRAINS LEGEND	
① HMA SHOULDERS, 2.5"	▲ EX. FRENCH DRAIN	STAGE 2
② HMA SHOULDERS, 17"	△ EX. PIPE UNDERDRAIN HEADWALL	
③ HMA SHOULDERS, 2.75"	EX. PIPE UNDERDRAINS	
④ AGG. SHOULDERS, TYPE B	PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)	
⑤ AGG. WEDGE SHOULDERS, TYPE B		



MODEL: Default
FILE NAME: P:\2020\20084\04 CADD - DWG\4.7 TranCAD Sheets\D570866-iht-jln-05.dgn

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		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET (STAGE 2)
I–74

SCALE: 1"=20' | SHEET 5 OF 9 SHEETS | STA. 2024+27.26 | TO STA. 2029+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	44
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND

1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND

- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

STAGE 2

MATCHLINE STATION 2029+50.00

MATCHLINE STATION 2035+50.00

2031+44.30
140.00' LT

2033+47.00
150.00' LT

2034+19.35
165.00' LT

PR. LIMITS OF CONSTRUCTION

PR. LIMITS OF CONSTRUCTION

EX. PAVED DITCH

PGL I-74 WB

STA. 2032+60.85 BK. W.
APPROACH SLAB

STA. 2032+37.00 BK. W.
BRIDGE APPROACH PAVEMENT
CONNECTOR (SPECIAL)

EX. SN 092-0017
STA. 2033+66.18
PROPOSED BRIDGE REPLACEMENT
PR. SN 092-0209
SINGLE SPAN
152'-8" BACK TO BACK OF ABUTMENTS
90° TO FAI 74

GRIFFIN STREET

STA. 2034+71.52 BK. E.
APPROACH SLAB

STA. 2034+98.00 BK. E.
BRIDGE APPROACH
PAVEMENT CONNECTOR
(SPECIAL)

I-74 WB

*89°12'49"

*SKEW TO GRIFFIN STREET BELOW

EX. DITCH

℄ I-74 ALIGNMENT

PR. DITCH

SEE NOTE 1

SEE NOTE 2

STA. 2033+66.18 ℄ FAI 74 =
STA. 50+00.00 ℄ GRIFFIN STREET

I-74 EB

PGL I-74 EB

PR. LIMITS OF CONSTRUCTION

STA. 2032+37.00 BK. W.
BRIDGE APPROACH
PAVEMENT CONNECTOR
(SPECIAL)

STA. 2032+60.85 BK. W.
APPROACH SLAB

EX. SN 092-0016
STA. 2033+66.18
PROPOSED BRIDGE REPLACEMENT
PR. SN 092-0208
SINGLE SPAN
152'-8" BACK TO BACK OF ABUTMENTS
90° TO FAI 74

STA. 2034+98.00 BK. E.
BRIDGE APPROACH
PAVEMENT CONNECTOR
(SPECIAL)

STA. 2034+71.52 BK. E.
APPROACH SLAB

EX. PAVED DITCH

2030+00.00
155.00' RT

2030+00.00
180.00' RT

2033+29.67
155.00' RT

2033+39.00
200.37' RT

2034+04.67
155.00' RT

PR. LIMITS OF CONSTRUCTION

PR. LIMITS OF CONSTRUCTION

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20084\04 CADD - DWG\4.7 TranCAD Sheets\070860-sht-plh-06.dgn

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		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET (STAGE 2)
I–74

SCALE: 1"=20' | SHEET 6 OF 9 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	45
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND

1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND

- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

STAGE 2

AT ℄
165.00' LT

PR. LIMITS OF CONSTRUCTION

STONY CREEK

SN 092-0019
STA. 2037+72.50
BRIDGE DECK SCARIFICATION 3/4" AND
BRIDGE DECK LATEX CONCRETE OVERLAY,
2 1/2" THEN DIAMOND GRINDING

PGL I-74 WB

EX. GUARDRAIL (TO REMAIN)

PR. LIMITS OF CONSTRUCTION

MATCHLINE STATION 2035+50.00

SEE NOTE 1

PR. PCC SHOULDERS, 11.5" (SPECIAL)

I-74 WB

SEE NOTE 2

℄ I-74 ALIGNMENT

SEE NOTE 1

PR. PCC SHOULDERS, 11.5" (SPECIAL)

I-74 EB

PGL I-74 EB

SN 092-0018
STA. 2037+72.50
BRIDGE DECK SCARIFICATION 3/4" AND
BRIDGE DECK LATEX CONCRETE OVERLAY,
2 1/2" THEN DIAMOND GRINDING

EX. GUARDRAIL (TO REMAIN)

EX. HIGH TENSION CABLE MEDIAN BARRIER (TO REMAIN)

PR. LIMITS OF CONSTRUCTION

PR. LIMITS OF CONSTRUCTION

2036+00.00
155.00' RT

2040+00.00
155.00' RT

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\2008404 CADD - DWG\4.7 TrainCAD Sheets\0537086b-sht-pln-07.dgn

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

PLAN SHEET (STAGE 2)
I-74

SCALE: 1"=20' | SHEET 7 OF 9 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	46
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND
1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND
- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

STAGE 3

2033+47.00
150.00' LT

PR. LIMITS OF CONSTRUCTION

2034+19.35
165.00' LT

PR. LIMITS OF CONSTRUCTION

2031+44.30
140.00' LT

PR. LIMITS OF CONSTRUCTION

PR. WOVEN WIRE FENCE, 4'

PR. CHAIN LINK FENCE, 4'

EX. PAVED DITCH

PGL I-74 WB

EX. SN 092-0017
STA. 2033+66.18
PROPOSED BRIDGE REPLACEMENT
PR. SN 092-0209
SINGLE SPAN
152'-8" BACK TO BACK OF ABUTMENTS
90° TO FAI 74

GRIFFIN STREET

PR. POLY HMA BINDER COURSE, IL-9.5FG, N90, 1.25"
PR. POLY HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 1.5"

STA. 2032+27.00
PARTIAL DEPTH
PATCHING

I-74 WB

*SKEW TO GRIFFIN STREET BELOW

STA. 2033+66.18 ℄ FAI 74 =
STA. 50+00.00 ℄ GRIFFIN STREET

EX. DITCH

℄ I-74 ALIGNMENT

PR. DITCH

I-74 EB

PGL I-74 EB

STA. 2032+27.00
PARTIAL DEPTH
PATCHING

PR. LIMITS OF CONSTRUCTION

EX. SN 092-0016
STA. 2033+66.18
PROPOSED BRIDGE REPLACEMENT
PR. SN 092-0208
SINGLE SPAN
152'-8" BACK TO BACK OF ABUTMENTS
90° TO FAI 74

PR. POLY HMA BINDER COURSE, IL-9.5FG, N90, 1.25"
PR. POLY HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 1.5"

PR. CHAIN LINK FENCE, 4'

PR. WOVEN WIRE FENCE, 4'

EX. PAVED DITCH

2030+00.00
155.00' RT

2030+00.00
180.00' RT

2033+29.67
155.00' RT

2034+04.67
155.00' RT

PR. LIMITS OF CONSTRUCTION

PR. LIMITS OF CONSTRUCTION

2033+39.00
200.37' RT

MATCHLINE STATION 2035+50.00

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20084004 CADD - DWG\4.7 Trans\CAD Sheets\D3570860-tri-pln-08.dgn

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

PLAN SHEET (STAGE 3)
I-74
SCALE: 1"=20' | SHEET 8 OF 9 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	47
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

NOTES:
1. SEE GUARDRAIL LENGTH OF NEED SHEET FOR GUARDRAIL LAYOUT.
2. SEE EROSION CONTROL PLAN FOR RIPRAP LAYOUT.

PROPOSED SHOULDER LEGEND

1. HMA SHOULDERS, 2.5"
2. HMA SHOULDERS, 17"
3. HMA SHOULDERS, 2.75"
4. AGG. SHOULDERS, TYPE B
5. AGG. WEDGE SHOULDERS, TYPE B

PIPE UNDERDRAINS LEGEND

- EX. FRENCH DRAIN
- EX. PIPE UNDERDRAIN HEADWALL
- EX. PIPE UNDERDRAINS
- PR. PIPE UNDERDRAINS (SEE MISCELLANEOUS DETAILS PIPE UNDERDRAINS)

STAGE 3

MATCHLINE STATION 2035+50.00

AT ℄ 165.00' LT

STONY CREEK

PR. POLY HMA BINDER COURSE, IL-9.5FG, N90, 1.25"
PR. POLY HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 1.5"

PR. LIMITS OF CONSTRUCTION

SN 092-0019
STA. 2037+72.50
BRIDGE DECK SCARIFICATION 3/4" AND
BRIDGE DECK LATEX CONCRETE OVERLAY,
2 1/2" THEN DIAMOND GRINDING

PGL I-74 WB

℄ I-74 ALIGNMENT

I-74 EB

PGL I-74 EB

EX. GUARDRAIL (TO REMAIN)

EX. HIGH TENSION CABLE MEDIAN BARRIER (TO REMAIN)

2036+00.00
155.00' RT

2040+00.00
155.00' RT

SCALE IN FEET 0 20 40 60

MODEL: Default
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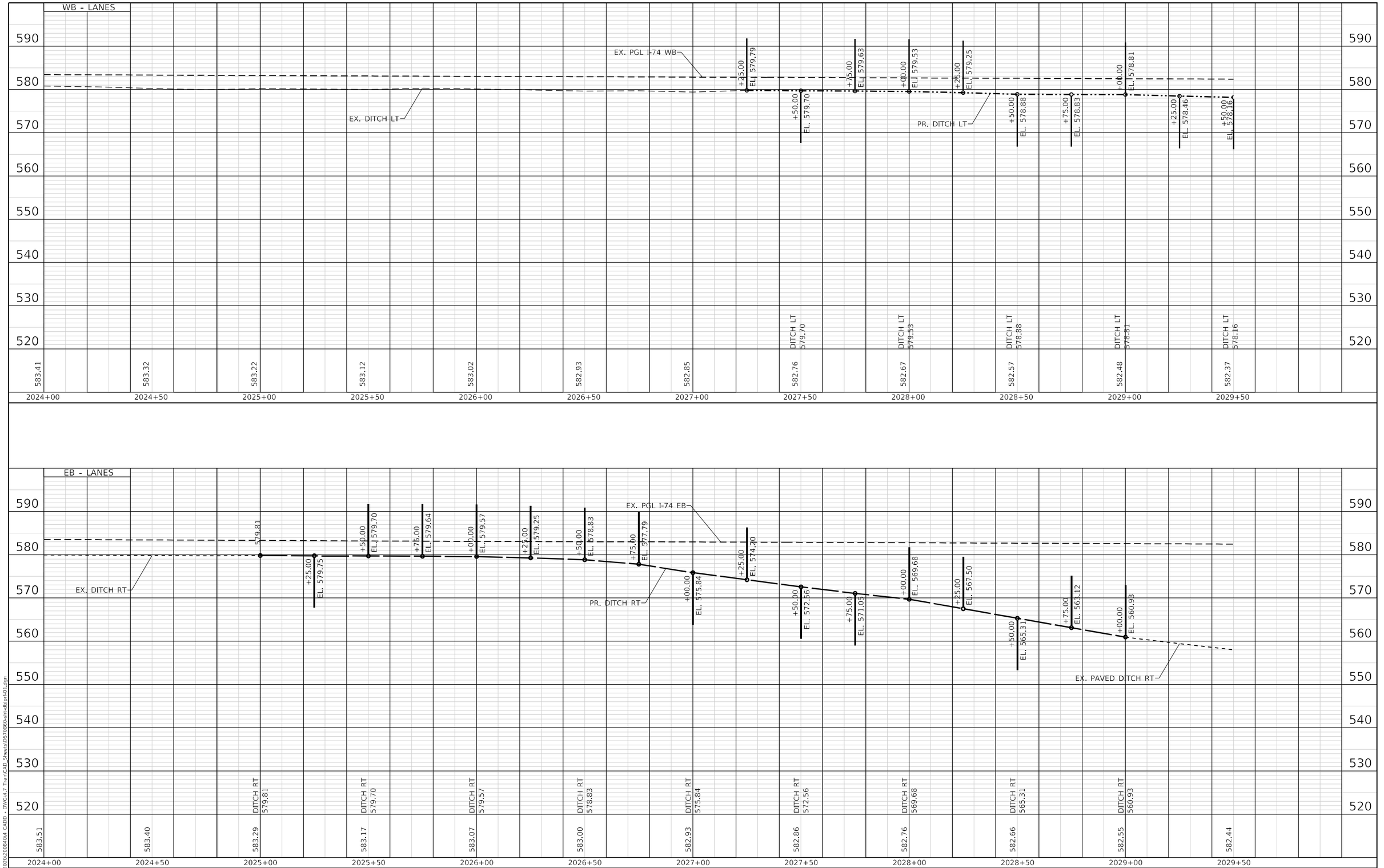
TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

PLAN SHEET (STAGE 3)
I–74

SCALE: 1"=20' | SHEET 9 OF 9 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	48
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



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SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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		PLOT DATE = 4/27/2023	DATE -

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

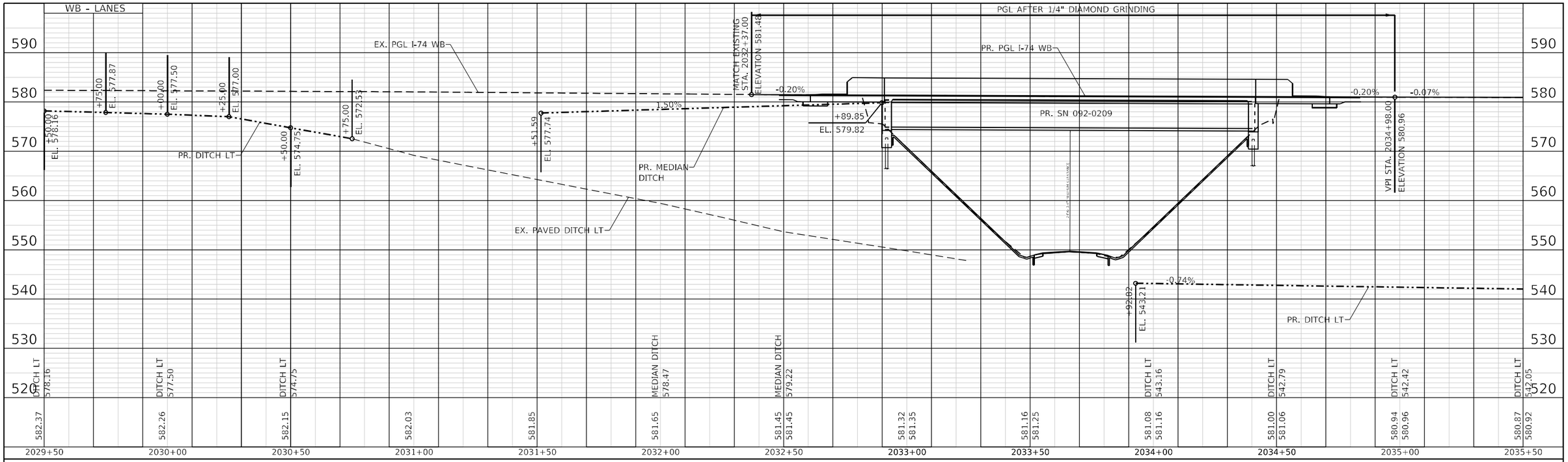
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
I-74

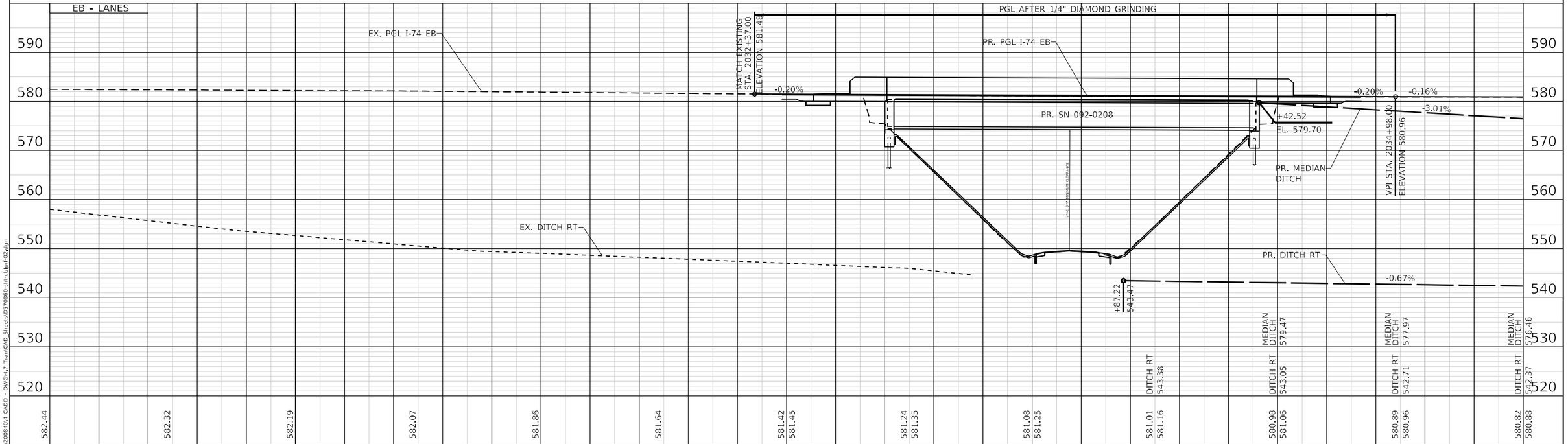
SCALE: 1"=20' | SHEET 1 OF 4 SHEETS | STA. 2024+00.00 TO STA. 2029+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	49
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

WB - LANES



EB - LANES



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SURVEYED
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ALIGNMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATIONS DYPED
NOTE BOOK
NO.
BY
DATE

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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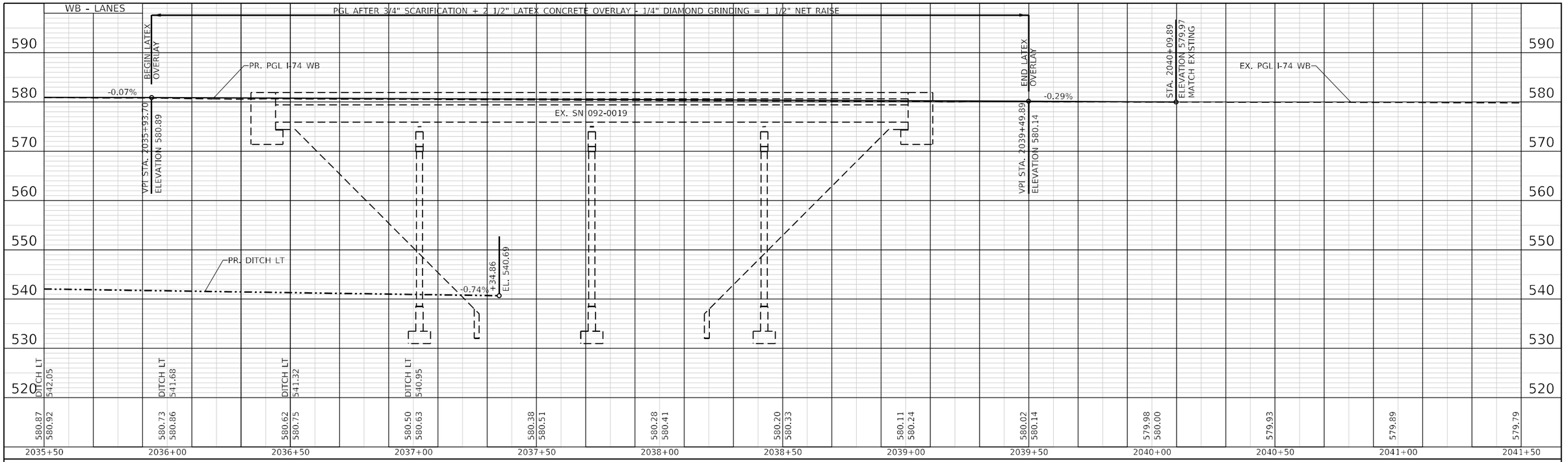
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

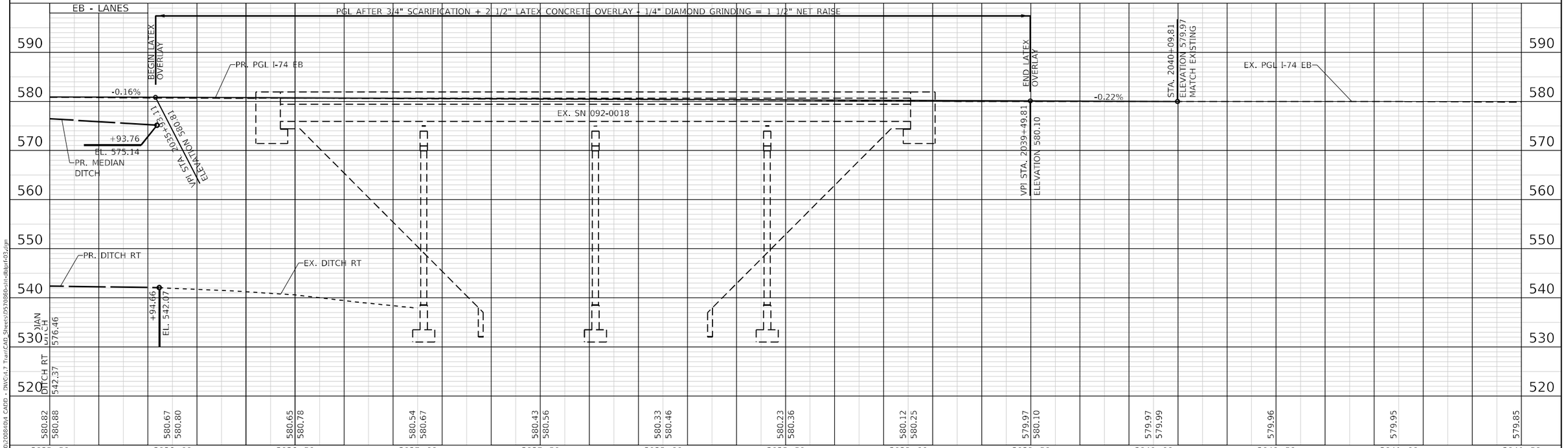
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
I-74

SCALE: 1"=20' | SHEET 2 OF 4 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	50
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			





PLAN
SURVEYED
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ALIGNMENT CHECKED
R.O.W. CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATIONS DYNED
NOTE BOOK
NO.
BY
DATE

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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. www.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -
			DRAWN -
		PLOT SCALE = 40.0000 ' / in.	CHECKED -
		PLOT DATE = 4/27/2023	DATE -

REVISED -	REVISED -	REVISED -
REVISED -	REVISED -	REVISED -
REVISED -	REVISED -	REVISED -
REVISED -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
I-74

SCALE: 1"=20' | SHEET 3 OF 4 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	51
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

PLAN

SURVEYED	BY:
PLOTTED	
DRAWN	
CHECKED	
NOTE BOOK	
NO.	

DATE	

WB - LANES

EX. PGL I-74 WB

590	580	570	560	550	540	530	520

579.79	579.69	579.59	579.50	579.42	579.35	579.28	579.15	579.00	578.86	578.73	578.65	578.57
2041+50	2042+00	2042+50	2043+00	2043+50	2044+00	2044+50	2045+00	2045+50	2046+00	2046+50	2047+00	2047+50

PROFILE

SURVEYED	BY:
PLOTTED	
DRAWN	
CHECKED	
NOTE BOOK	
NO.	

DATE	

EB - LANES

EX. PGL I-74 EB

585	580	575	570	565	560	555	550

579.85	579.74	579.63	579.52	579.41	579.31	579.21	579.10	579.00	578.90	578.80	578.69	578.58
2041+50	2042+00	2042+50	2043+00	2043+50	2044+00	2044+50	2045+00	2045+50	2046+00	2046+50	2047+00	2047+50

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
I-74

SCALE: 1"=20' | SHEET 4 OF 4 SHEETS | STA. 2041+50.00 TO STA. 2047+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	52
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

PLAN

SURVEYED	
PLOTTED	
DRAWN	
CHECKED	
QUANTITIES CHECKED	
ALIGNMENT CHECKED	
R.T. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

DATE / BY

EX. ROW

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SEE REMOVAL PLANS)

PR. AGGREGATE WEDGE SHOULDER, TYPE B

PR. HMA SHOULDERS, 8"

FL ELEV = 543.21

STA. 50+00.00 ℄ GRIFFIN STREET = STA. 2033+66.18 ℄ FAI 74

FL ELEV = 543.47

PR. AGGREGATE WEDGE SHOULDER, TYPE B

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SEE REMOVAL PLANS)

EX. ROW

END IMPROVEMENT STA. 51+56.00

EX. ℄ GRIFFIN ST. ALIGNMENT

PR. PIPE CULVERTS TO BE CLEANED 24"

PR. PIPE CULVERTS TO BE CLEANED 18"

CLEANING PAVED DITCH

FL ELEV = 543.91

BEGIN IMPROVEMENT STA. 48+44.00

FL ELEV = 543.81

STA. 50+75.00 OFF. 21.04' RT

STA. 51+25.00 OFF. 28.90' RT

PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1.5"

EX. ℄ I-74 ALIGNMENT

PR. HMA SHOULDERS, 8"

PR. CONCRETE GUTTER, TYPE A (SPECIAL) STA. 50+60.70 TO STA. 51+25.00 (SEE DETAIL SHEET)

PR. AGGREGATE WEDGE SHOULDER, TYPE B

PR. AGGREGATE WEDGE SHOULDER, TYPE B

MB, MH, CH, AC, 2034, 2033, 11', ±64.00, ±44.00, ±39.00, ±61.00, ±36.00, ±56.00, ±6%

47 48 49 50+00 51 52

N

0 20 40 60

SCALE IN FEET

PROFILE

SURVEYED	
PLOTTED	
DRAWN	
CHECKED	
QUANTITIES CHECKED	
E.M. NOTED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK	
NO.	

DATE / BY

LEFT

VPI STA. 48+44.00 ELEVATION 550.23

VPI STA. 48+64.00 ELEVATION 550.18

EX. 24" PIPE CULVERT TO REMAIN

PR. PROFILE

PR. DITCH LT

EX. 18" PIPE CULVERT TO REMAIN

VPI STA. 51+36.00 ELEVATION 549.20

VPI STA. 51+56.00 ELEVATION 549.00

EX. PROFILE

-0.23% +5.90% -0.31% -4.57% -1.05% +4.98%

+44.02 546.83 +59.31 545.00 +66.45 543.21 +71.44 +78.27 545.00 +89.29 548.60 +119.70 545.50 +128.35 543.44 +132.33 +139.70 545.25 +155.97 546.06

DITCH LT 546.11 DITCH LT 546.28 DITCH LT 548.57 DITCH LT 548.41 DITCH LT 548.25 DITCH LT 546.40 DITCH LT 549.06

550.14 550.29 550.43 550.18 550.22 549.75 549.88 549.61 549.73 549.56 549.69 549.31 549.44 549.18 549.30 549.02 549.06 548.81 548.61 548.38

555 550 545 540

47+00 47+50 48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50 53+00

RIGHT

VPI STA. 48+44.00 ELEVATION 550.23

VPI STA. 48+64.00 ELEVATION 550.18

EX. 24" PIPE CULVERT TO REMAIN

PR. PROFILE

PR. DITCH RT

EX. DITCH RT

VPI STA. 51+36.00 ELEVATION 549.20

VPI STA. 51+56.00 ELEVATION 549.00

EX. PROFILE

EX. 18" PIPE CULVERT TO REMAIN

-0.23% +5.15% -0.22% -4.06% -1.05%

+50.00 548.86 +70.43 543.81 +79.67 545.60 +89.86 548.70 +160.70 548.43 +25.00 545.82

DITCH RT 548.86 DITCH RT 546.65 DITCH RT 548.68 DITCH RT 548.57 DITCH RT 548.45 DITCH RT 546.83

550.14 550.29 550.43 550.18 550.22 549.75 549.88 549.61 549.73 549.56 549.69 549.31 549.44 549.18 549.30 549.02 549.06 548.81 548.61 548.38

555 550 545 540

47+00 47+50 48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50 53+00

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ENGINEERING GEOSPATIAL SERVICES		DRAWN -	REVISED -
IL DESIGN FIRM LICENSE NO: 184-001220	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
GRIFFIN STREET

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 48+44.00 | TO STA. 51+56.00

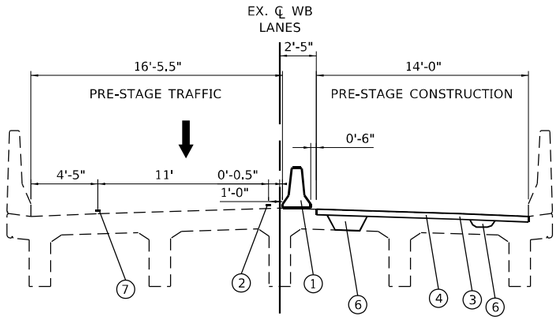
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	53
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

LEGEND

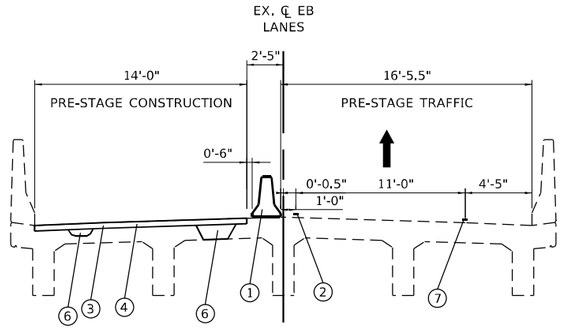
1. TEMPORARY CONCRETE BARRIER
2. TEMPORARY PAVEMENT MARKING
3. BRIDGE WEARING SURFACE REMOVAL
4. HMA SURFACE, 2"
5. BRIDGE DECK LATEX CONCRETE OVERLAY
6. DECK SLAB REPAIR
7. EXISTING PAVEMENT MARKING

REMOVAL AREA

℄ I-74

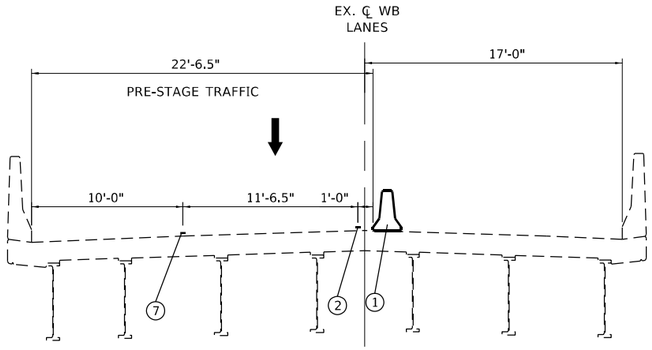


PRE–STAGE (WESTBOUND)
SN 092–0017 EX
SN 092–0209 PR

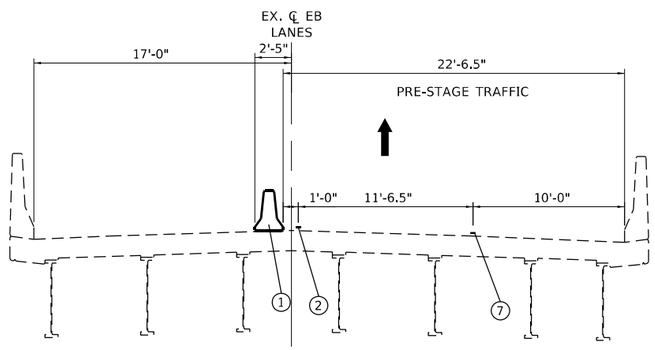


PRE–STAGE (EASTBOUND)
SN 092–0016 EX
SN 092–0208 PR

℄ I-74



PRE–STAGE (WESTBOUND)
SN 092–0019 EX



PRE–STAGE (EASTBOUND)
SN 092–0018 EX

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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = dmammoser	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 4/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

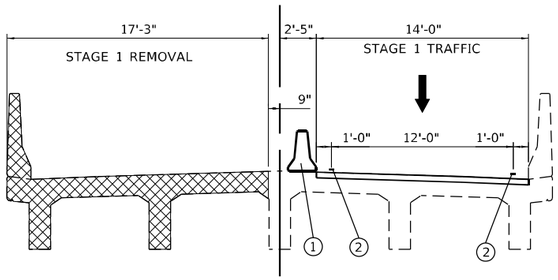
BRIDGE STAGING TYPICALS – PRE–STAGE
MAINTENANCE OF TRAFFIC

SCALE: N.A. | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	54
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

℄ STAGING

EX. ℄ WB LANES



STAGE 1 REMOVAL (WESTBOUND)

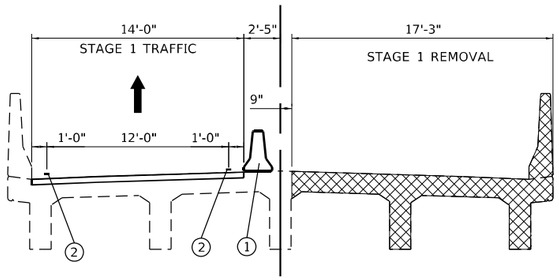
SN 092–0017 EX

SN 092–0209 PR

℄ I-74

℄ STAGING

EX. ℄ EB LANES



STAGE 1 REMOVAL (EASTBOUND)

SN 092–0016 EX

SN 092–0208 PR

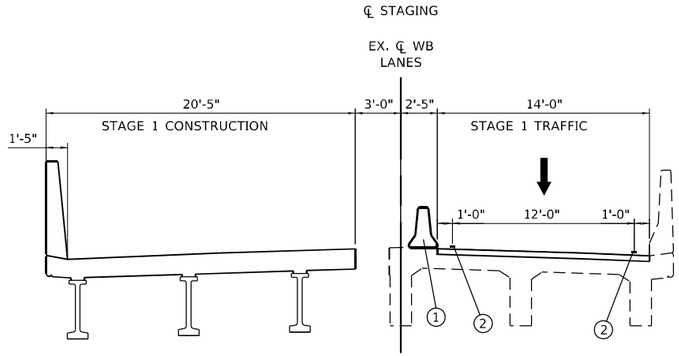
LEGEND

1. TEMPORARY CONCRETE BARRIER
2. TEMPORARY PAVEMENT MARKING
3. BRIDGE WEARING SURFACE REMOVAL
4. HMA SURFACE, 2"
5. BRIDGE DECK LATEX CONCRETE OVERLAY
6. DECK SLAB REPAIR
7. EXISTING PAVEMENT MARKING

REMOVAL AREA

℄ STAGING

EX. ℄ WB LANES



STAGE 1 CONSTRUCTION (WESTBOUND)

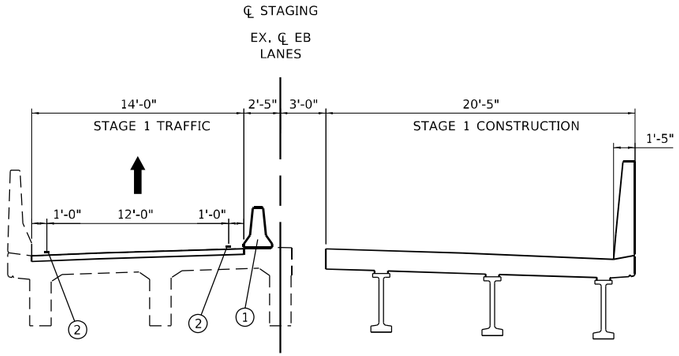
SN 092–0017 EX

SN 092–0209 PR

℄ I-74

℄ STAGING

EX. ℄ EB LANES

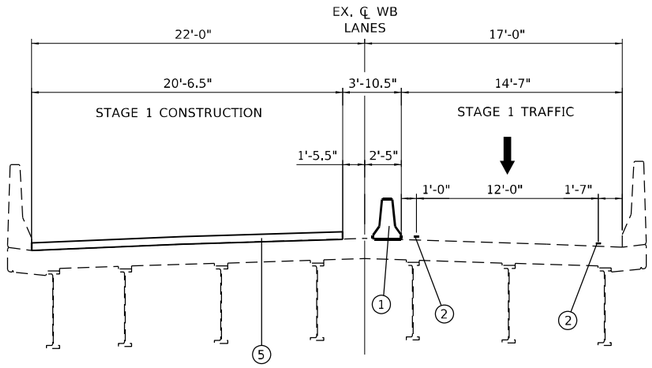


STAGE 1 CONSTRUCTION (EASTBOUND)

SN 092–0016 EX

SN 092–0208 PR

EX. ℄ WB LANES

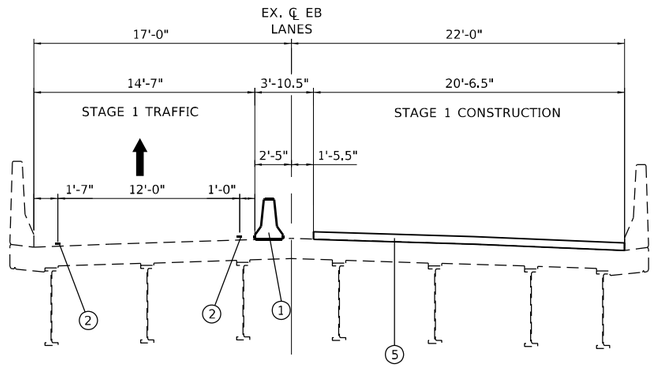


STAGE 1 CONSTRUCTION (WESTBOUND)

SN 092–0019 EX

℄ I-74

EX. ℄ EB LANES



STAGE 1 CONSTRUCTION (EASTBOUND)

SN 092–0018 EX

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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

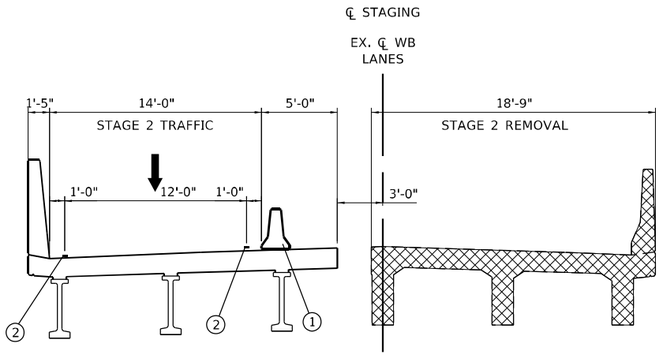
USER NAME = dmammoser	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 4/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

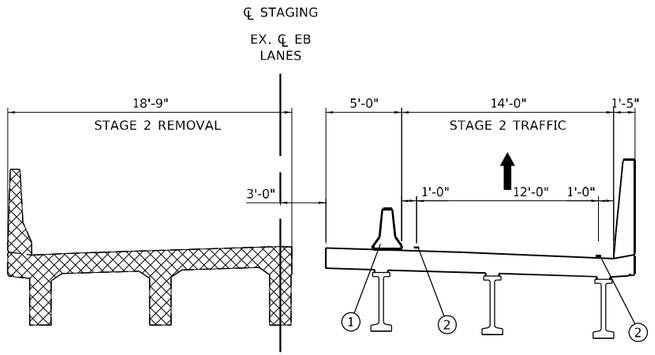
BRIDGE STAGING TYPICALS – STAGE 1
MAINTENANCE OF TRAFFIC

SCALE: N.A. | SHEET 2 OF 4 SHEETS | STA. | TO STA.

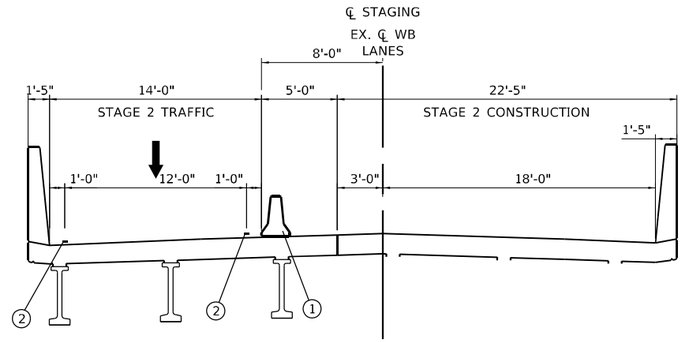
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	55
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



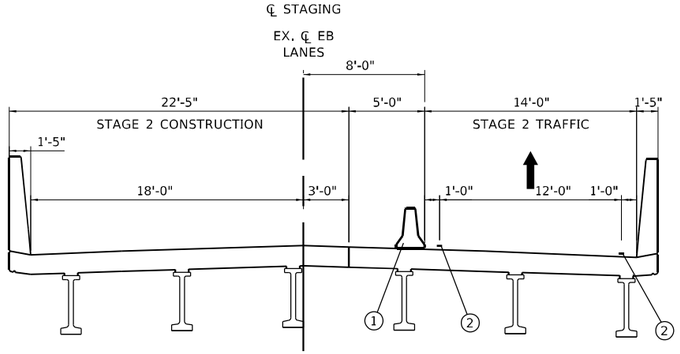
STAGE 2 REMOVAL (WESTBOUND)
SN 092–0017 EX
SN 092–0209 PR



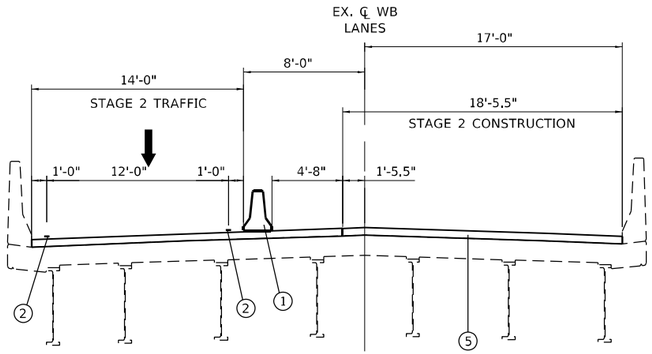
STAGE 2 REMOVAL (EASTBOUND)
SN 092–0016 EX
SN 092–0208 PR



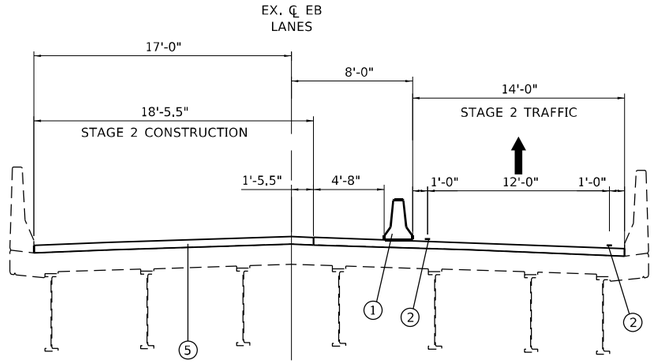
STAGE 2 CONSTRUCTION (WESTBOUND)
SN 092–0017 EX
SN 092–0209 PR



STAGE 2 CONSTRUCTION (EASTBOUND)
SN 092–0016 EX
SN 092–0208 PR



STAGE 2 CONSTRUCTION (WESTBOUND)
SN 092–0019 EX



STAGE 2 CONSTRUCTION (EASTBOUND)
SN 092–0018 EX

LEGEND

1. TEMPORARY CONCRETE BARRIER
2. TEMPORARY PAVEMENT MARKING
3. BRIDGE WEARING SURFACE REMOVAL
4. HMA SURFACE, 2"
5. BRIDGE DECK LATEX CONCRETE OVERLAY
6. DECK SLAB REPAIR
7. EXISTING PAVEMENT MARKING

REMOVAL AREA

MODEL: Default
FILE NAME: P:\effingham\s4721 - IDOT PTB 197-027 _05_I-74 Danville Bridges\C4DD\Reference Files\05170860-alt-Typ-Staging_Bridges.dgn

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = dmammoser	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 4/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE STAGING TYPICALS – STAGE 2
MAINTENANCE OF TRAFFIC

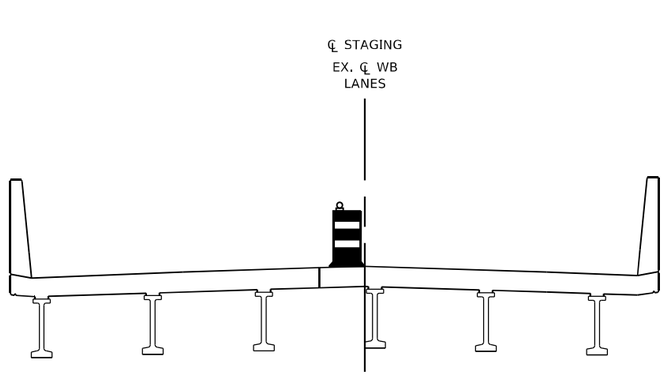
SCALE: N.A. | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	56
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

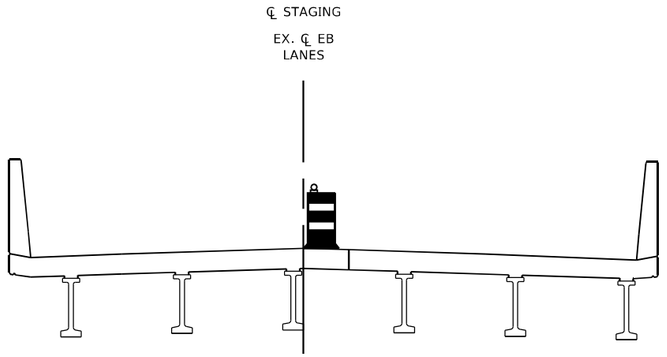
LEGEND

1. TEMPORARY CONCRETE BARRIER
2. TEMPORARY PAVEMENT MARKING
3. BRIDGE WEARING SURFACE REMOVAL
4. HMA SURFACE, 2"
5. BRIDGE DECK LATEX CONCRETE OVERLAY
6. DECK SLAB REPAIR
7. EXISTING PAVEMENT MARKING

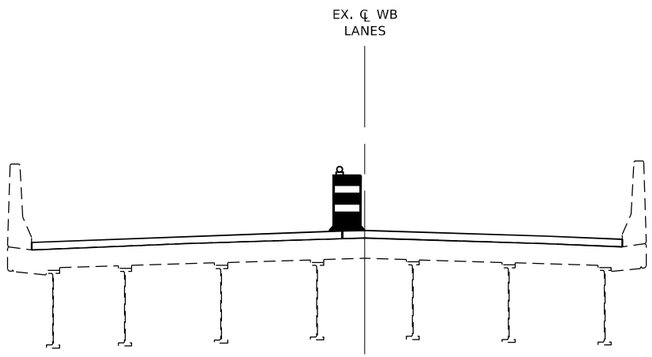
REMOVAL AREA



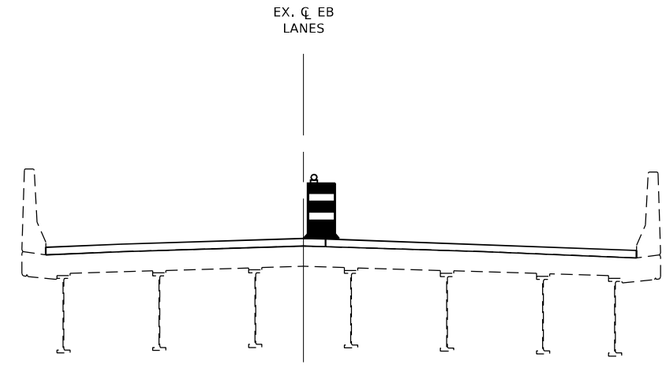
STAGE 3 CONSTRUCTION (WESTBOUND)
SN 092–0209 PR



STAGE 3 CONSTRUCTION (EASTBOUND)
SN 092–0208 PR



STAGE 3 CONSTRUCTION (WESTBOUND)
SN 092–0019 EX



STAGE 3 CONSTRUCTION (EASTBOUND)
SN 092–0018 EX

STAGE 3 TYPICALS - RESURFACING OF I-74
TRAFFIC CONTROL SHALL BE IN ACCORDANCE
WITH 701400 AND 701401

MODEL: Default
FILE NAME: P:\Effingham\4721 - IDOT PTB 197-027 05_I-74 Danville Bridges\CADD\Reference Files\05170860-sht-Typ-Staging_Bridges.dgn

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

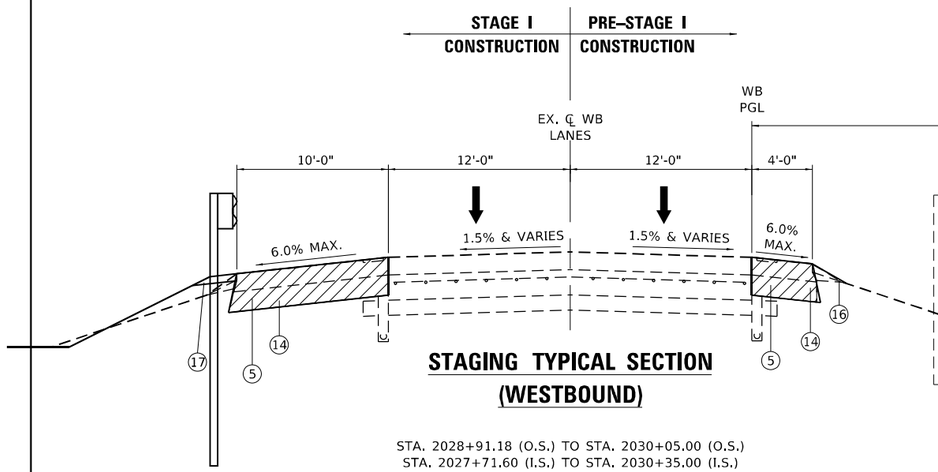
USER NAME = dmammoser	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 4/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE STAGING TYPICALS – STAGE 3
MAINTENANCE OF TRAFFIC

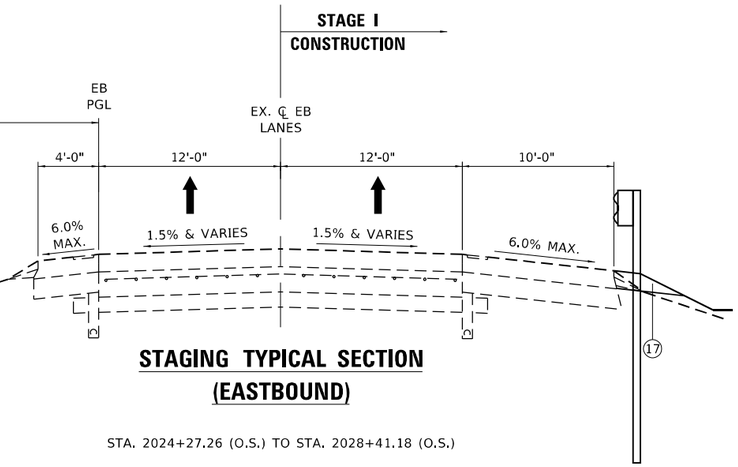
SCALE: N.A. | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	57
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



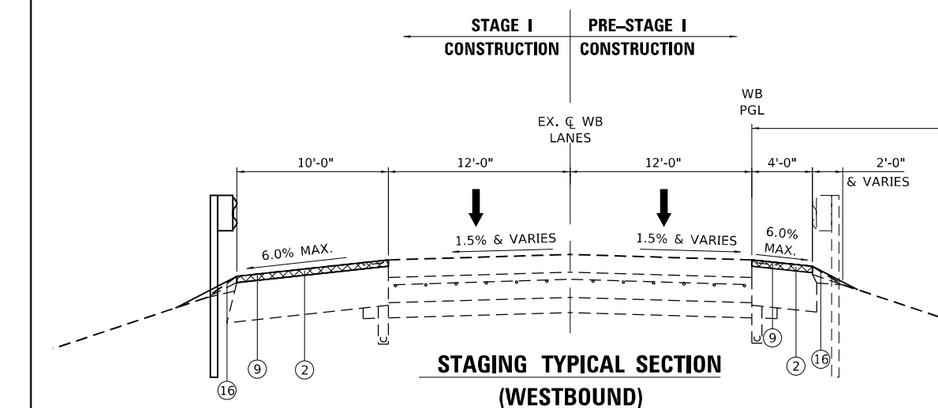
STAGING TYPICAL SECTION (WESTBOUND)

STA. 2028+91.18 (O.S.) TO STA. 2030+05.00 (O.S.)
STA. 2027+71.60 (I.S.) TO STA. 2030+35.00 (I.S.)



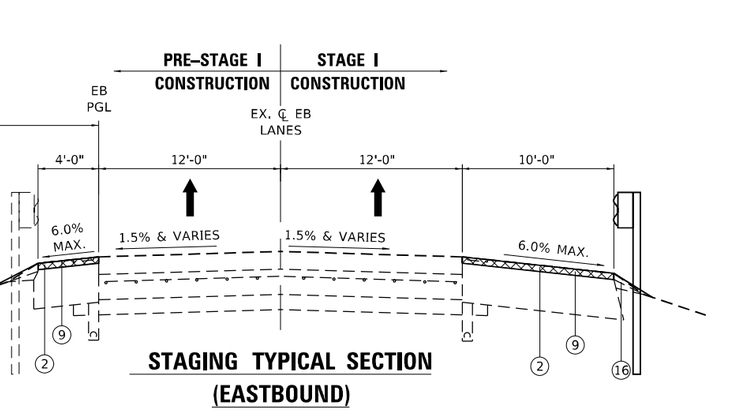
STAGING TYPICAL SECTION (EASTBOUND)

STA. 2024+27.26 (O.S.) TO STA. 2028+41.18 (O.S.)



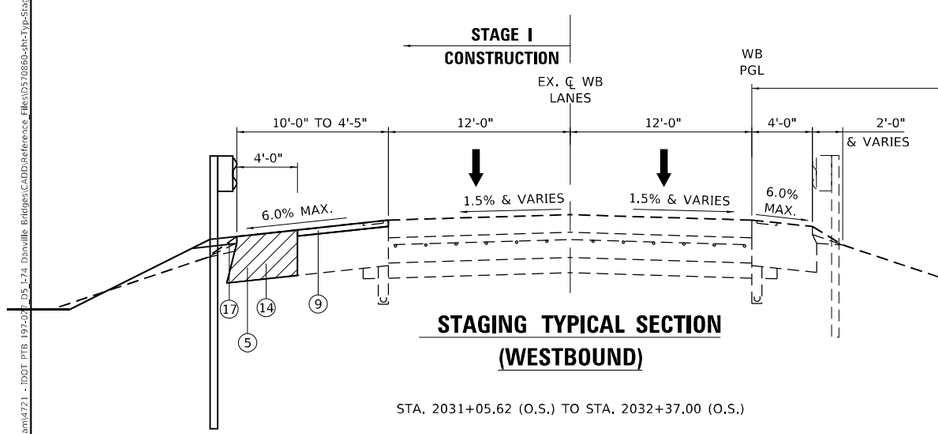
STAGING TYPICAL SECTION (WESTBOUND)

STA. 2030+05.00 (O.S.) TO STA. 2031+05.62 (O.S.)
STA. 2030+35.00 (I.S.) TO STA. 2032+41.56 (I.S.)
APPROACH / BRIDGE OMISSION - STA. 2032+41.56 TO STA. 2034+93.24
APPROACH / BRIDGE OMISSION - STA. 2035+93.70 TO STA. 2039+49.89
STA. 2039+49.89 TO STA. 2040+69.16
STA. 2042+97.68 (O.S) TO STA. 2043+99.89 (O.S)



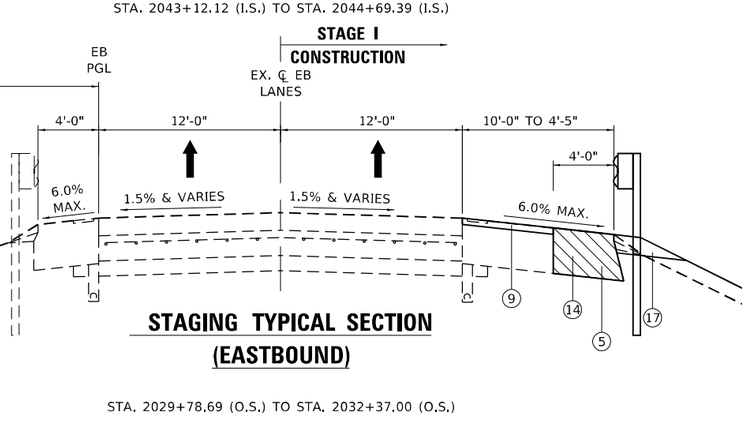
STAGING TYPICAL SECTION (EASTBOUND)

STA. 2028+41.18 (O.S.) TO STA. 2029+78.69 (O.S.)
STA. 2030+36.60 (I.S.) TO STA. 2032+40.60 (I.S.)
APPROACH / BRIDGE OMISSION - STA. 2032+40.60 TO STA. 2034+92.46
APPROACH / BRIDGE OMISSION - STA. 2035+93.11 TO STA. 2039+49.81
STA. 2039+49.81 TO STA. 2040+83.60
STA. 2043+12.12 (O.S) TO STA. 2043+49.81 (O.S)
STA. 2043+12.12 (I.S.) TO STA. 2044+69.39 (I.S.)



STAGING TYPICAL SECTION (WESTBOUND)

STA. 2031+05.62 (O.S.) TO STA. 2032+37.00 (O.S.)



STAGING TYPICAL SECTION (EASTBOUND)

STA. 2029+78.69 (O.S.) TO STA. 2032+37.00 (O.S.)

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 2.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/IN-SY
- (9) PR. HMA SHOULDERS, 280 LB/IN-SY
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/IN-SY (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/IN-SY(GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 308 LB/IN-SY
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5"
- (28) PR. HMA SHOULDERS 280 LB/IN-SY
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

O.S. - OUTSIDE SHOULDER
I.S. - INSIDE SHOULDER

HMA SURFACE REMOVAL

HMA SHOULDER REMOVAL

MODEL: Default
FILE NAME: P:\Effingham\4721 - IDOT PTB 197-031 DS-I-74 Danville Bridges\CADD\Reference Files\D5708800-sht-Typ-Staging_Roadway.dgn

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

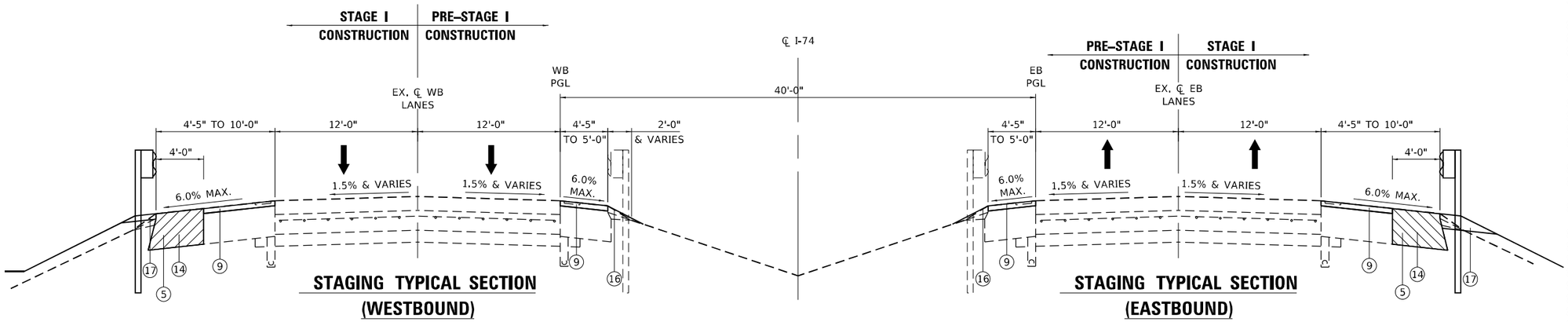
USER NAME = rhanfland	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED TYPICAL SECTIONS (PRE/STAGE 1)
MAINTENANCE OF TRAFFIC

SCALE: N.A. | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	58
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

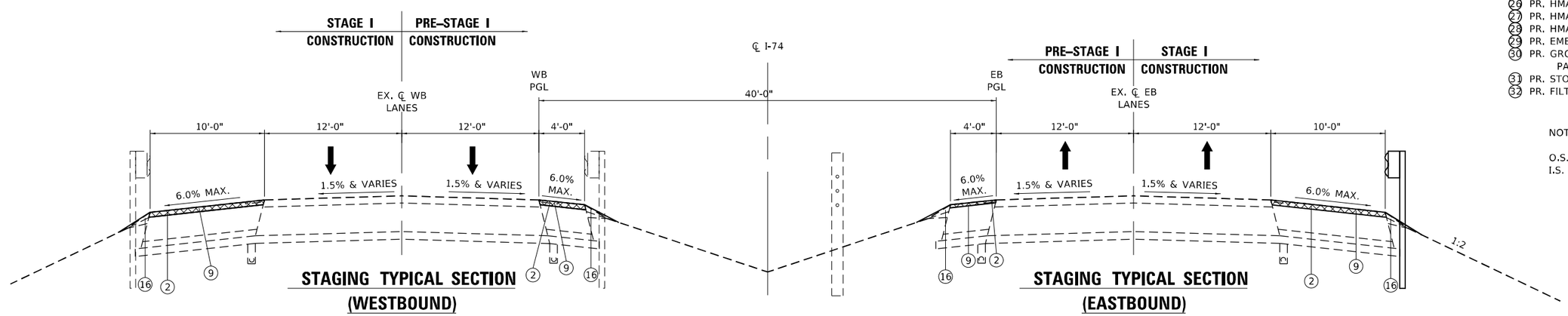


STAGING TYPICAL SECTION (WESTBOUND)

STA. 2034+93.24 TO STA. 2035+93.70

STAGING TYPICAL SECTION (EASTBOUND)

STA. 2034+92.46 TO STA. 2035+93.11



STAGING TYPICAL SECTION (WESTBOUND)

STA. 2040+69.16 (O.S.) TO STA. 2042+97.68 (O.S.)
STA. 2040+69.16 (I.S) TO STA. 2042.04.47 (I.S.)

STAGING TYPICAL SECTION (EASTBOUND)

STA. 2040+83.60 TO STA. 2043+12.12

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 2.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/IN-SY
- (9) PR. HMA SHOULDERS, 280 LB/IN-SY
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/IN-SY (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/IN-SY(GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 308 LB/IN-SY
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5"
- (28) PR. HMA SHOULDERS 280 LB/IN-SY
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

O.S. - OUTSIDE SHOULDER
I.S. - INSIDE SHOULDER

MODEL: Default
FILE NAME: P:\effingham\a4721 - IDOT PTB 197-027 05 I-74 Danville Bridges\C4DD\Reference Files\05170860-alt-Typ-Staging_Roadway.dgn

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

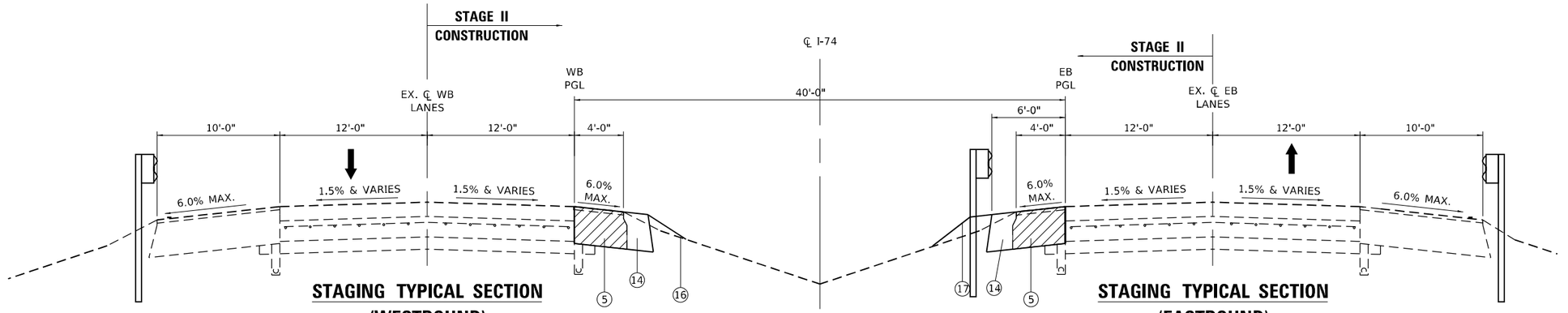
USER NAME = rhanfland	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED TYPICAL SECTIONS (PRE/STAGE 1)
MAINTENANCE OF TRAFFIC

SCALE: N.A. | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	59
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

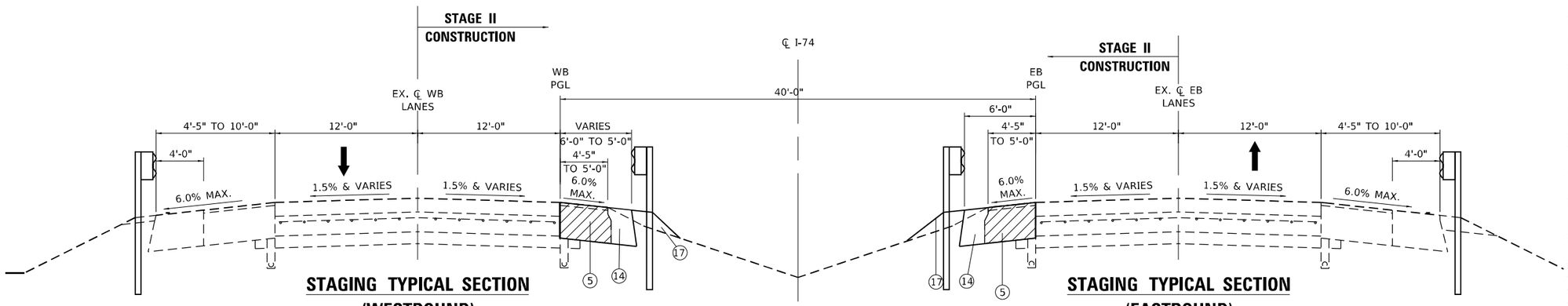


STAGING TYPICAL SECTION (WESTBOUND)

STA. 2031+84.98 (I.S.) TO STA. 2032+37.00 (I.S.)

STAGING TYPICAL SECTION (EASTBOUND)

STA. 2029+51.18 (I.S.) TO STA. 2032+37.00 (I.S.)



STAGING TYPICAL SECTION (WESTBOUND)

STA. 2034+98.00 (I.S.) TO STA. 2036+28.17 (I.S.)

STAGING TYPICAL SECTION (EASTBOUND)

STA. 2034+98.00 (I.S.) TO STA. 2036+28.22 (I.S.)

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 2.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/IN-SY
- (9) PR. HMA SHOULDERS, 280 LB/IN-SY
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/IN-SY (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/IN-SY(GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 308 LB/IN-SY
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5"
- (28) PR. HMA SHOULDERS 280 LB/IN-SY
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

O.S. - OUTSIDE SHOULDER
I.S. - INSIDE SHOULDER

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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

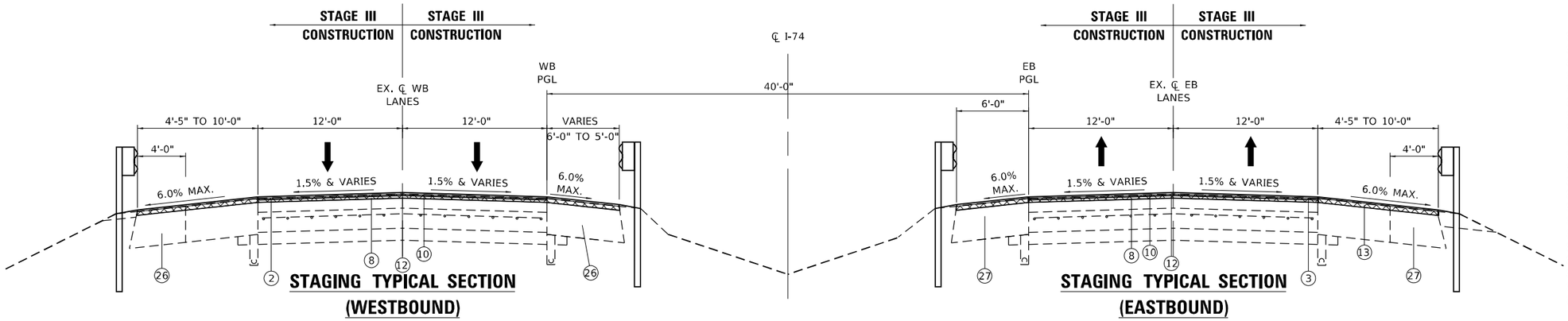
USER NAME = rhanfland	DESIGNED - LS	REVISED -	
	DRAWN - LS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -	
PLOT DATE = 5/3/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED TYPICAL SECTIONS (STAGE 2)
MAINTENANCE OF TRAFFIC

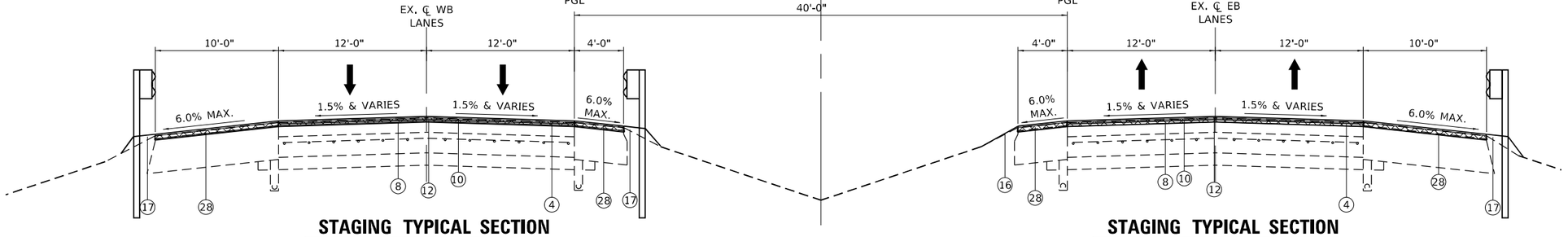
SCALE: N.A. | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	60
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



STA. 2034+98.00 TO STA. 2035+93.70
STA. 2034+98.00 (O.S./I.S.) TO STA. 2035+93.70 2036+17.63 (O.S./I.S.)

STA. 2034+98.00 TO STA. 2035+93.11
STA. 2034+98.00 (O.S./I.S.) TO STA. 2035+93.70 2036+17.63 (O.S./I.S.)



STA. 2039+49.89 TO STA. 2040+09.89
STA. 2039+14.98 (O.S/I.S.) TO STA. 2040+09.89 (O.S/I.S.)

STA. 2039+49.81 TO STA. 2040+09.89
STA. 2039+14.90 (O.S/I.S.) TO STA. 2040+09.89 (O.S/I.S.)

LEGEND

- (A) EX. SUBBASE GRANULAR MATERIAL, 6"
- (B) EX. SUBBASE GRANULAR MATERIAL, 4"
- (C) EX. SUBBASE GRANULAR MATERIAL, 3.75"
- (D) EX. PCC PAVEMENT, 10"
- (E) EX. WIRE MESH
- (F) EX. HMA RESURFACING, VARIES 7" TO 7.75"
- (G) EX. FULL-DEPTH HMA PAVEMENT, 18.75"
- (H) EX. HMA SHOULDERS, 15"
- (I) EX. HMA SHOULDERS, VARIES 18" TO 18.25"
- (J) EX. HMA SHOULDERS, VARIES 7" TO 7.75"
- (K) EX. CAM SHOULDERS, 8"
- (L) EX. UNDERDRAINS, 6"
- (M) EX. UNDERDRAINS, 4"
- (N) EX. SHOULDER RUMBLE STRIP
- (O) EX. HMA RESURFACING, 3.75"
- (P) EX. AGGREGATE SHOULDERS, TYPE B
- (Q) EX. GUARDRAIL
- (R) EX. HIGH TENSION CABLE MEDIAN BARRIER
- (S) EX. SUBBASE GRANULAR MATERIAL, 7"
- (T) EX. OIL AND CHIP SURFACE
- (U) EX. HMA RESURFACING

- (1) PR. HMA SURFACE REMOVAL, 1.25"
- (2) PR. HMA SURFACE REMOVAL, 2.5"
- (3) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 2.5" TO 1.25"
- (4) PR. HMA SURFACE REMOVAL, VARIABLE DEPTH 1.25" TO 2.75"
- (5) PR. PAVED SHOULDER REMOVAL
- (6) ITEM NOT USED
- (7) ITEM NOT USED
- (8) PR. POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, 140 LB/IN-SY
- (9) PR. HMA SHOULDERS, 280 LB/IN-SY
- (10) PR. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 168 LB/IN-SY (FAI 74)
- (11) PR. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 168 LB/IN-SY(GRIFFIN ST.)
- (12) PR. LONGITUDINAL JOINT SEALANT
- (13) PR. HMA SHOULDERS, 308 LB/IN-SY
- (14) PR. HMA SHOULDERS, 17"
- (15) PR. SHOULDER RUMBLE STRIPS, 16 INCH
- (16) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (17) PR. AGGREGATE SHOULDERS, TYPE B
- (18) PR. HMA SHOULDERS, 8"
- (19) PR. CONCRETE GUTTER, TYPE A (SPECIAL)
- (20) PR. THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- (21) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (22) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (23) PR. BRIDGE DECK SCARIFICATION 0.75"
- (24) PR. BRIDGE DECK LATEX CONCRETE OVERLAY, 2.5"
- (25) PR. DIAMOND GRINDING (BRIDGE SECTION)
- (26) PR. HMA SHOULDERS, 17.5" TO 18.5"
- (27) PR. HMA SHOULDERS 17.75" TO 18.5"
- (28) PR. HMA SHOULDERS 280 LB/IN-SY
- (29) PR. EMBANKMENT
- (30) PR. GROOVING FOR RECESSED PAVEMENT MARKING 7"
- (31) PR. STONE DUMPED RIPRAP, CLASS A4
- (32) PR. FILTER FABRIC

NOTES:

O.S. - OUTSIDE SHOULDER
I.S. - INSIDE SHOULDER

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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = rhanfland	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 5/3/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED TYPICAL SECTIONS (STAGE 3)
MAINTENANCE OF TRAFFIC

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	61
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

PRE-STAGE CONSTRUCTION

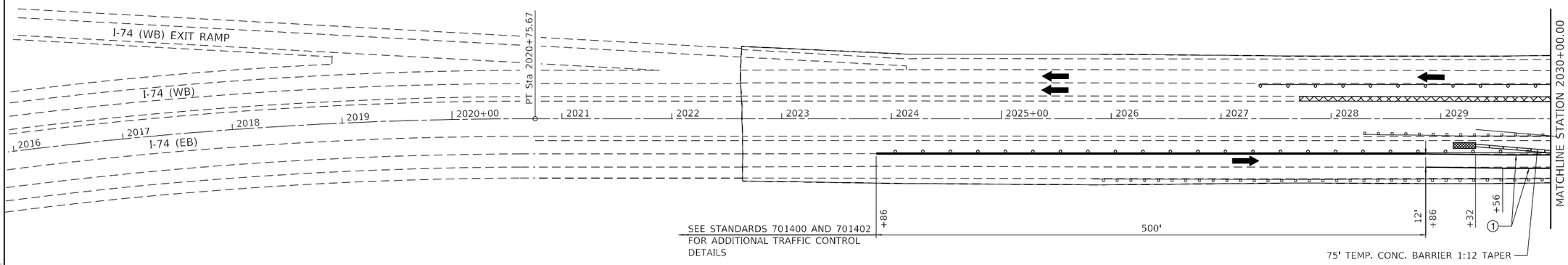
1. SN 092-0016/0017 CONSTRUCT PASSING LANE BRIDGE DECK PATCHING, BRIDGE WEARING SURFACE REMOVAL AND HMA OVERLAY FROM ABUTMENT TO ABUTMENT.
2. CONSTRUCT INSIDE SHOULDER IMPROVEMENTS ACCORDING TO PRE-STAGE ROADWAY TYPICALS.
3. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

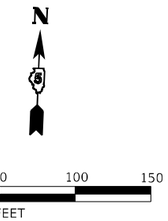
LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.





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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = dmammoser	DESIGNED - LS	REVISED -	
	DRAWN - LS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – PRE-STAGE
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 1 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	62
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

PRE-STAGE CONSTRUCTION

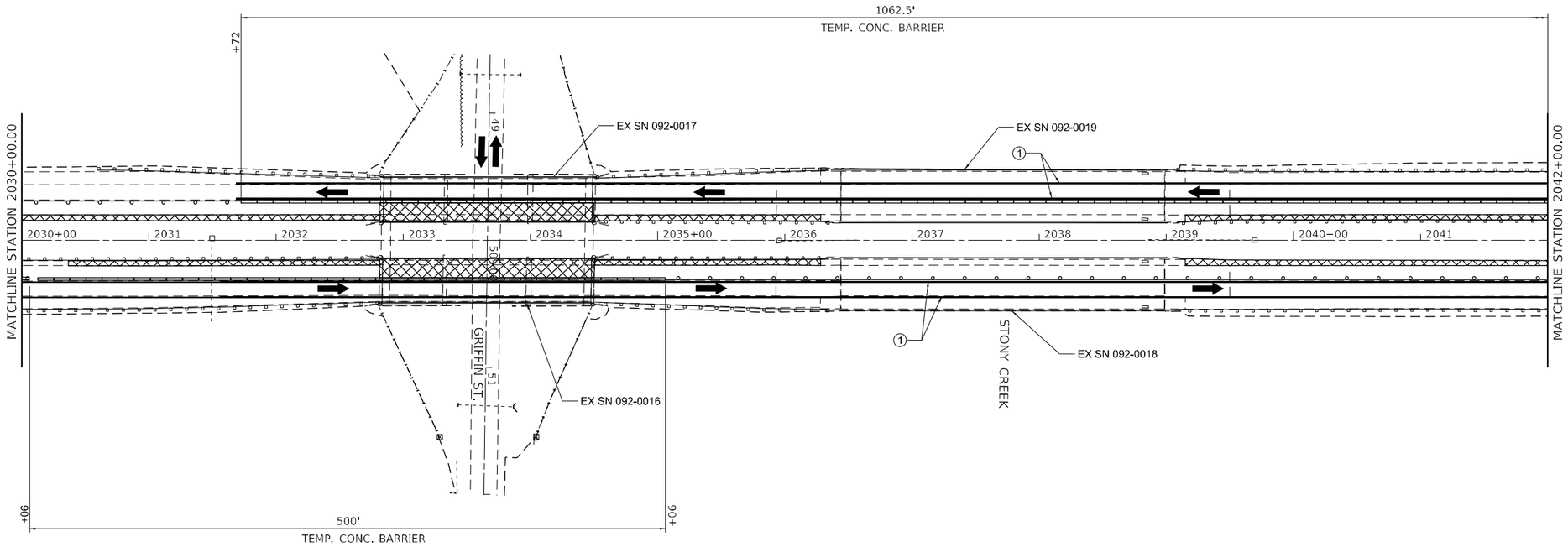
1. SN 092-0016/0017 CONSTRUCT PASSING LANE BRIDGE DECK PATCHING, BRIDGE WEARING SURFACE REMOVAL AND HMA OVERLAY FROM ABUTMENT TO ABUTMENT.
2. CONSTRUCT INSIDE SHOULDER IMPROVEMENTS ACCORDING TO PRE-STAGE ROADWAY TYPICALS.
3. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.
3. SEE ROADWAY REMOVAL PLAN FOR ADDITIONAL INFORMATION.



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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = dmammoser	DESIGNED - LS	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – PRE-STAGE
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 2 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	63
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

PRE-STAGE CONSTRUCTION

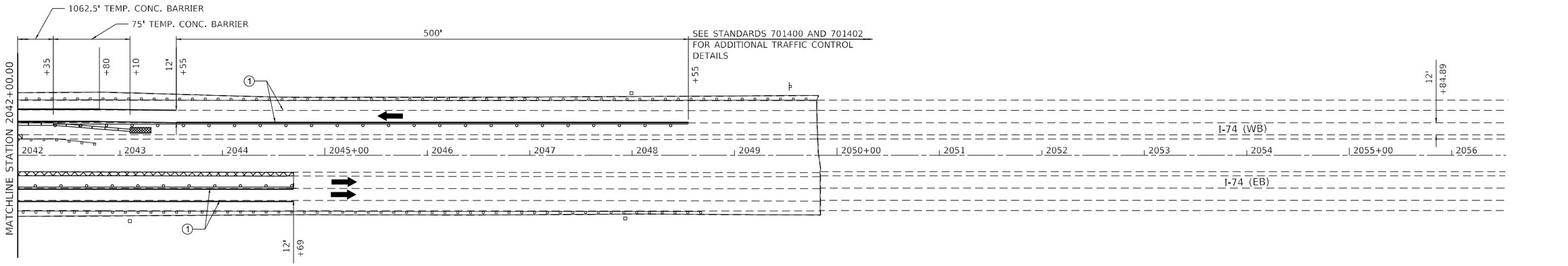
1. SN 092-0016/0017 CONSTRUCT PASSING LANE BRIDGE DECK PATCHING, BRIDGE WEARING SURFACE REMOVAL AND HMA OVERLAY FROM ABUTMENT TO ABUTMENT.
2. CONSTRUCT INSIDE SHOULDER IMPROVEMENTS ACCORDING TO PRE-STAGE ROADWAY TYPICALS.
3. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.



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		DRAWN - LS	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -	
	PLOT DATE = 4/27/2023	DATE -	REVISED -	

STAGING PLAN – PRE–STAGE MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 3 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	64
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

STAGE 1 CONSTRUCTION

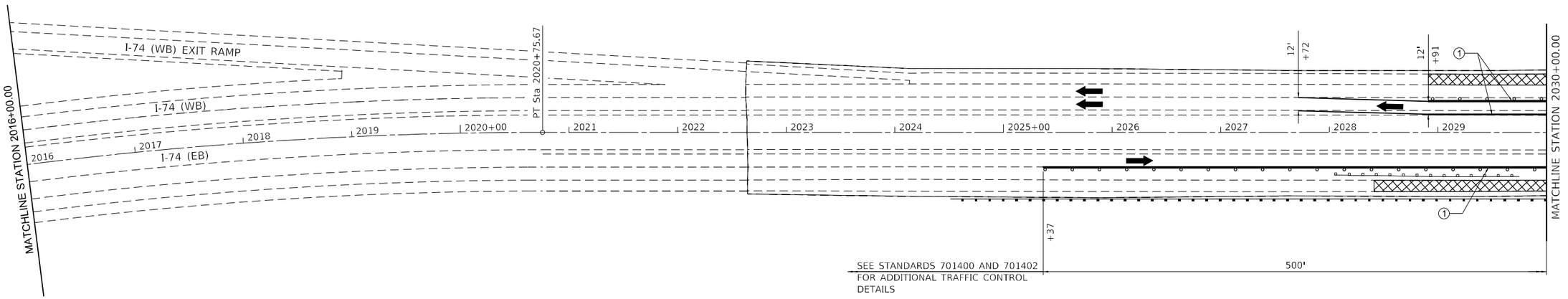
1. SN 092-0016/0017 REMOVE AND CONSTRUCT PROPOSED STRUCTURE ACCORDING TO STAGE 1 TYPICALS.
2. SN 092-0018/0019 CONSTRUCT LATEX CONCRETE OVERLAY ON BRIDGE DECK AND APPROACHES ACCORDING TO STAGE 1 TYPICALS.
3. CONSTRUCT OUTSIDE SHOULDER IMPROVEMENTS ACCORDING TO STAGE 1 ROADWAY TYPICALS.
4. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING
- TYPE III BARRICADE

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.



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		DRAWN - LS	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -	
	PLOT DATE = 4/27/2023	DATE -	REVISED -	

STAGING PLAN – STAGE 1
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 4 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	65
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

STAGE 1 CONSTRUCTION

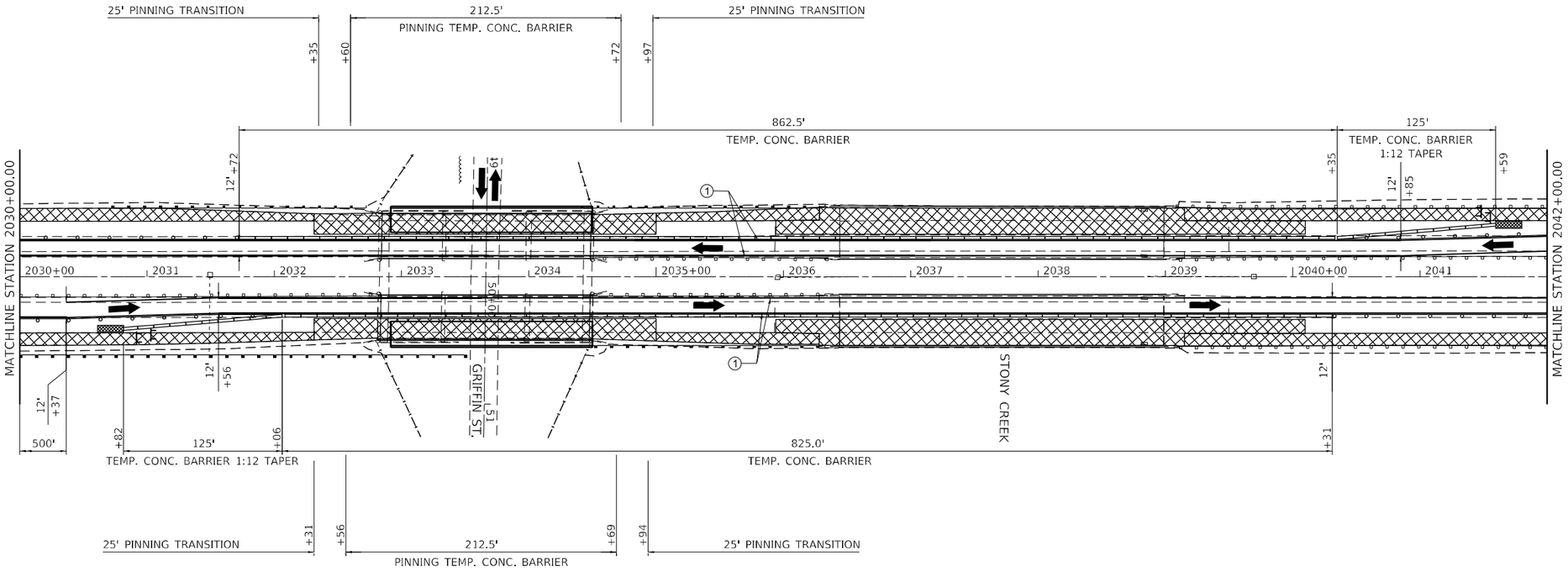
1. SN 092-0016/0017 REMOVE AND CONSTRUCT PROPOSED STRUCTURE ACCORDING TO STAGE 1 TYPICALS.
2. SN 092-0018/0019 CONSTRUCT LATEX CONCRETE OVERLAY ON BRIDGE DECK AND APPROACHES ACCORDING TO STAGE 1 TYPICALS.
3. CONSTRUCT OUTSIDE SHOULDER IMPROVEMENTS ACCORDING TO STAGE 1 ROADWAY TYPICALS.
4. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

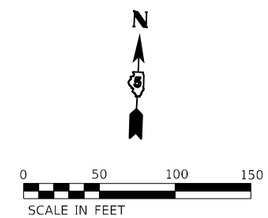
LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING
- TYPE III BARRICADE

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.





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WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = dmammoser	DESIGNED - LS	REVISED -	
	DRAWN - LS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – STAGE 1
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 5 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	66
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

STAGE 1 CONSTRUCTION

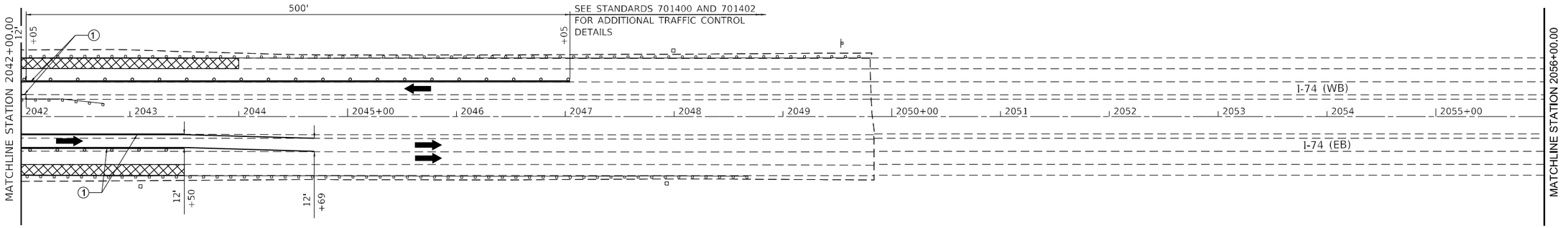
1. SN 092-0016/0017 REMOVE AND CONSTRUCT PROPOSED STRUCTURE ACCORDING TO STAGE 1 TYPICALS.
2. SN 092-0018/0019 CONSTRUCT LATEX CONCRETE OVERLAY ON BRIDGE DECK AND APPROACHES ACCORDING TO STAGE 1 TYPICALS.
3. CONSTRUCT OUTSIDE SHOULDER IMPROVEMENTS ACCORDING TO STAGE 1 ROADWAY TYPICALS.
4. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING
- TYPE III BARRICADE

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.



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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME = dmammoser	DESIGNED - LS	REVISED -	
	DRAWN - LS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – STAGE 1
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 6 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	67
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

STAGE 2 CONSTRUCTION

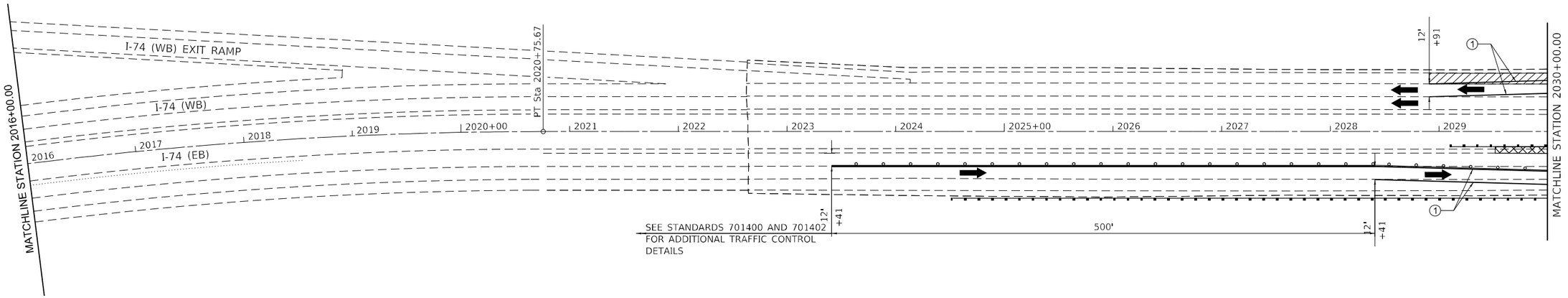
1. SN 092-0016/0017 REMOVE AND CONSTRUCT PROPOSED STRUCTURE ACCORDING TO STAGE 2 TYPICALS.
2. SN 092-0018/0019 CONSTRUCT LATEX CONCRETE OVERLAY ON BRIDGE DECK AND APPROACHES ACCORDING TO STAGE 2 TYPICALS.
3. CONSTRUCT INSIDE SHOULDER IMPROVEMENTS ACCORDING TO STAGE 2 ROADWAY TYPICALS.
4. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

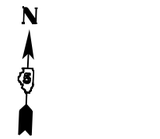
LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING
- TYPE III BARRICADE

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.





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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

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	DRAWN - LS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - RLH	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – STAGE 2
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 7 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	68
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

STAGE 2 CONSTRUCTION

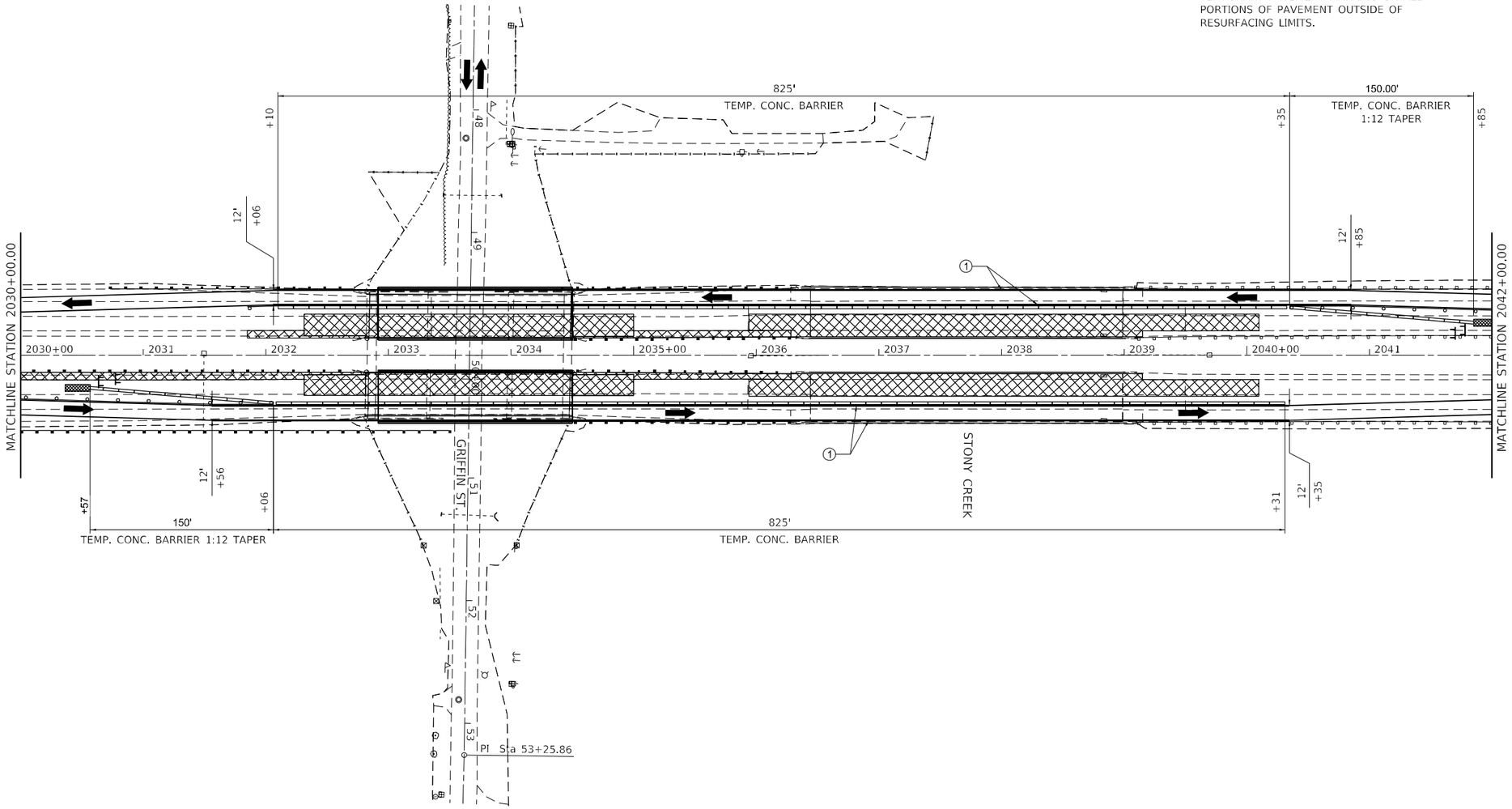
1. SN 092-0016/0017 REMOVE AND CONSTRUCT PROPOSED STRUCTURE ACCORDING TO STAGE 2 TYPICALS.
2. SN 092-0018/0019 CONSTRUCT LATEX CONCRETE OVERLAY ON BRIDGE DECK AND APPROACHES ACCORDING TO STAGE 2 TYPICALS.
3. CONSTRUCT INSIDE SHOULDER IMPROVEMENTS ACCORDING TO STAGE 2 ROADWAY TYPICALS.
4. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

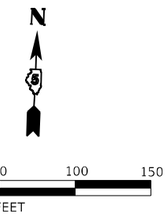
LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING
- TYPE III BARRICADE

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.





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	PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – STAGE 2
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 8 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	69
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

STAGE 2 CONSTRUCTION

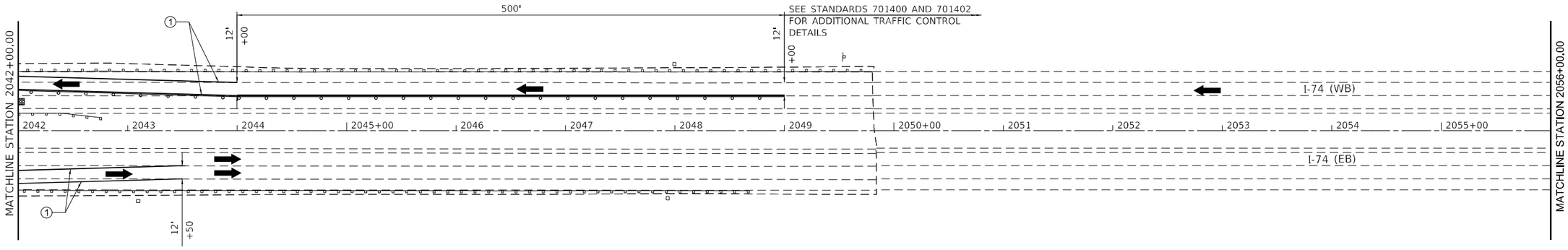
1. SN 092-0016/0017 REMOVE AND CONSTRUCT PROPOSED STRUCTURE ACCORDING TO STAGE 2 TYPICALS.
2. SN 092-0018/0019 CONSTRUCT LATEX CONCRETE OVERLAY ON BRIDGE DECK AND APPROACHES ACCORDING TO STAGE 2 TYPICALS.
3. CONSTRUCT INSIDE SHOULDER IMPROVEMENTS ACCORDING TO STAGE 2 ROADWAY TYPICALS.
4. CONTRACTOR SHALL USE TYPE III TAPE AS TEMPORARY PAVEMENT MARKING ON ALL PORTIONS OF PAVEMENT OUTSIDE OF RESURFACING LIMITS.

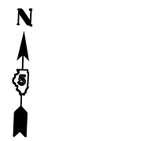
LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAVEL
- TEMPORARY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- (1) TEMPORARY PAVEMENT MARKING
- TYPE III BARRICADE

NOTES:

1. ALL DIMENSIONS SHOWN REFER TO STAGE CONSTRUCTION TRAFFIC LANE WIDTHS.
2. FOLLOW HIGHWAY STANDARDS 701400 AND 701402.





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EFFINGHAM, IL
LICENSE #184.003222

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PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN – STAGE 2
MAINTENANCE OF TRAFFIC

SCALE: 1"=50' | SHEET 9 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	70
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

AC AC AC AC AC AC AC AC

PR. DITCH

+25.00

10'
12'
12'
4'

2024 2025+00 2026 2027 2028 2029

℄ I-74 ALIGNMENT

MATCHLINE STATION 2029+50.00

2024 2025+00 2026 2027 2028 2029

4'
12'
12'
10'

+00.00

PR. DITCH

+50.00

PR. DITCH

PR. STONE DUMPED RR CLASS A4
PR. FILTER FABRIC

EX. PAVED DITCH

+50.00

+00.00

AC AC AC

℄ DITCH

3' 2' 2' 4'

3 1 1 4

16"

BEDDING PR. FILTER FABRIC

SECTION A-A

STONE DUMPED RIPRAP, CLASS A4 DETAIL

LEGEND

PR. SEEDING CLASS, 2A
W/ FERTILIZER NUTRIENTS
AND HEAVY-DUTY EROSION CONTROL BLANKET

PR. SEEDING CLASS, 2A
W/ FERTILIZER NUTRIENTS
AND EROSION CONTROL BLANKET

PR. TEMPORARY DITCH CHECK

PR. INLET AND PIPE PROTECTION

N

0 20 40 60

SCALE IN FEET

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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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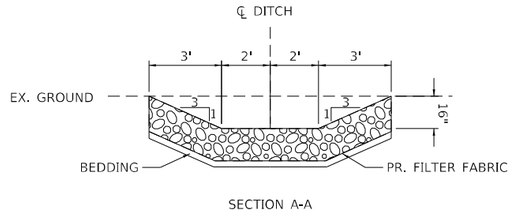
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
I-74

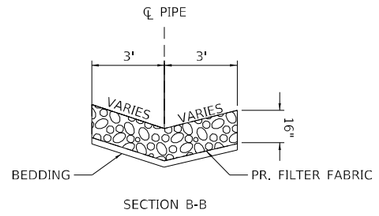
SCALE: 1"=20' | SHEET 1 OF 3 SHEETS | STA. 2024+27.26 | TO STA. 2029+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	71
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



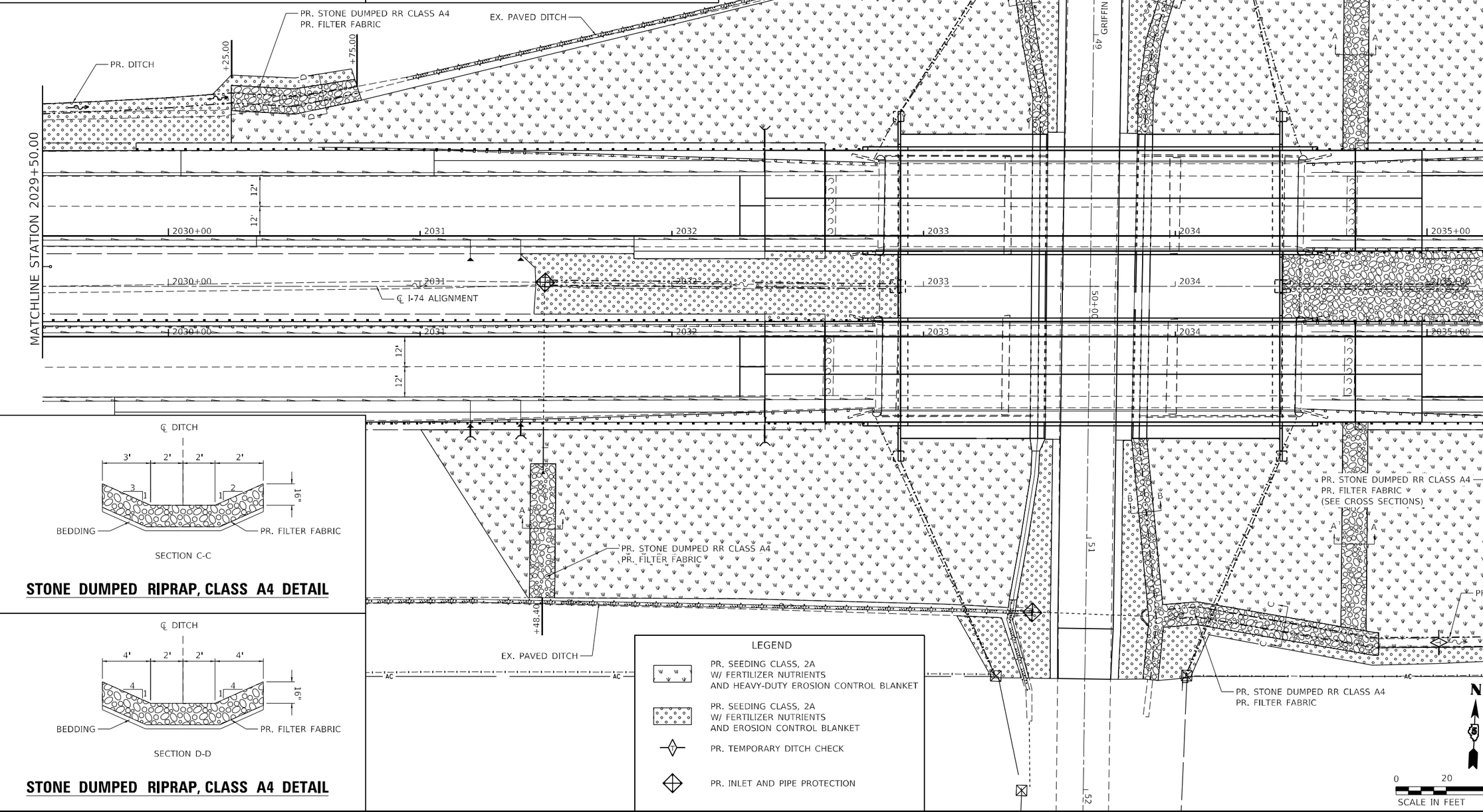
SECTION A-A

STONE DUMPED RIPRAP, CLASS A4 DETAIL



SECTION B-B

STONE DUMPED RIPRAP, CLASS A4 DETAIL



SECTION C-C

STONE DUMPED RIPRAP, CLASS A4 DETAIL

SECTION D-D

STONE DUMPED RIPRAP, CLASS A4 DETAIL

LEGEND

- PR. SEEDING CLASS, 2A W/ FERTILIZER NUTRIENTS AND HEAVY-DUTY EROSION CONTROL BLANKET
- PR. SEEDING CLASS, 2A W/ FERTILIZER NUTRIENTS AND EROSION CONTROL BLANKET
- PR. TEMPORARY DITCH CHECK
- PR. INLET AND PIPE PROTECTION

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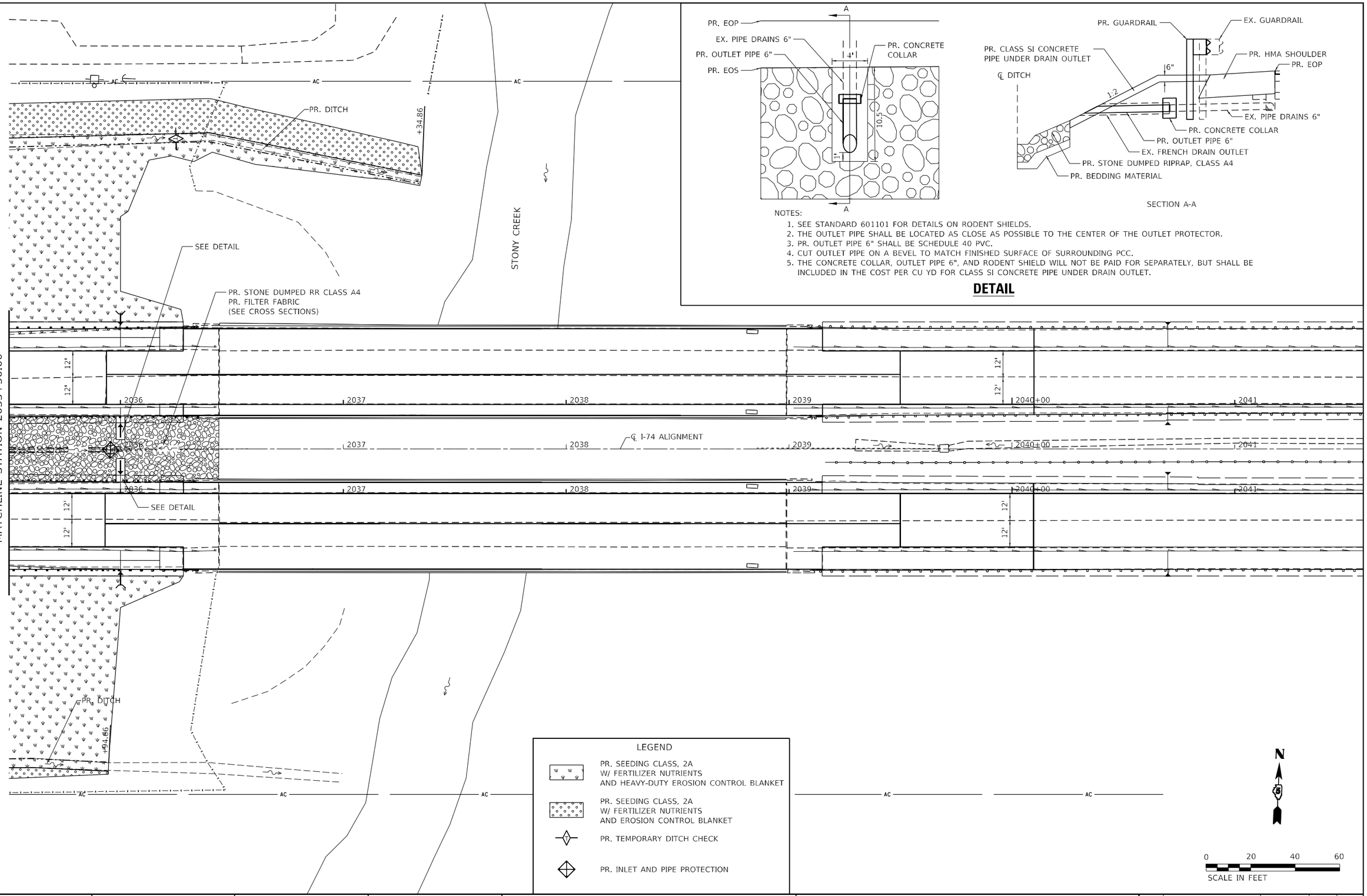
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
I-74

SCALE: 1"=20' | SHEET 2 OF 3 SHEETS | STA. 2029+50.00 TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	72
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	



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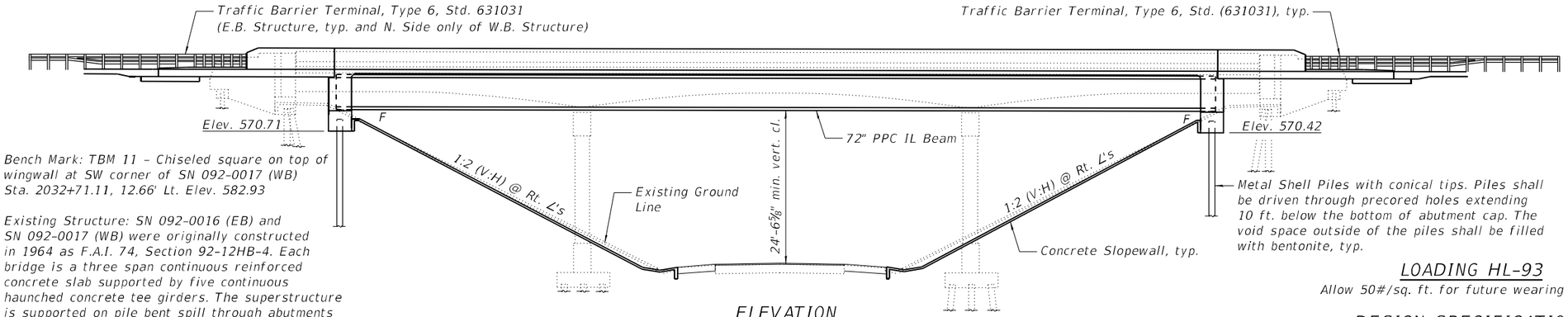
		PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
I-74

SCALE: 1"=20' | SHEET 3 OF 3 SHEETS | STA. 2035+50.00 TO STA. 2041+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	73
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

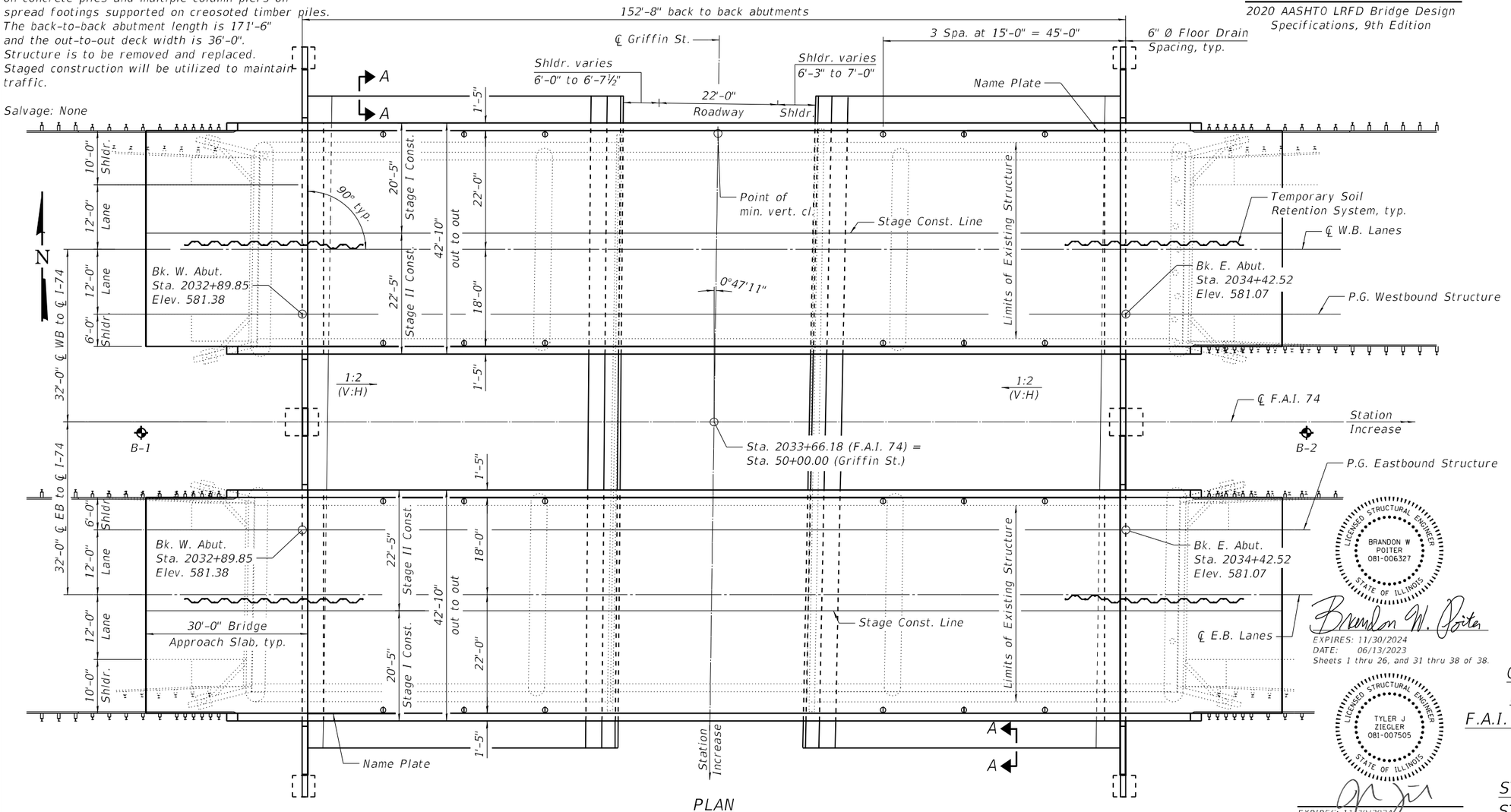


ELEVATION

Bench Mark: TBM 11 – Chiseled square on top of wingwall at SW corner of SN 092-0017 (WB)
Sta. 2032+71.11, 12.66' Lt. Elev. 582.93

Existing Structure: SN 092-0016 (EB) and SN 092-0017 (WB) were originally constructed in 1964 as F.A.I. 74, Section 92-12HB-4. Each bridge is a three span continuous reinforced concrete slab supported by five continuous haunched concrete tee girders. The superstructure is supported on pile bent spill through abutments on concrete piles and multiple column piers on spread footings supported on creosoted timber piles. The back-to-back abutment length is 171'-6" and the out-to-out deck width is 36'-0". Structure is to be removed and replaced. Staged construction will be utilized to maintain traffic.

Salvage: None



PLAN

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.132g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.224g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Concrete Superstructure)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

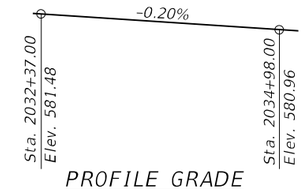
f'c = 8,500 psi
f'ci = 6,500 psi
fpu = 270,000 psi (0.6" Ø lax. strands)
fpbt = 202,300 psi (0.6" Ø lax. strands)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



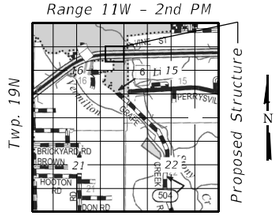
PROFILE GRADE

(Along ℄ I-74) *

* The profile grade shows the final elevations after grinding.

Note:
Up to ¼" may be ground off the bridge deck and the bridge approach slabs.

Range 11W – 2nd PM



LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
BRANDON W POITER
081-006327
STATE OF ILLINOIS

EXPIRES: 11/30/2024
DATE: 06/13/2023
Sheets 1 thru 26, and 31 thru 38 of 38.

LICENSED STRUCTURAL ENGINEER
TYLER J ZIEGLER
081-007505
STATE OF ILLINOIS

EXPIRES: 11/30/2024
DATE: 06/13/2023
Sheets 27 thru 30 of 38.

GENERAL PLAN & ELEVATION
I-74 OVER GRIFFIN STREET
F.A.I. RTE. 74 – SEC. (92-12HB-4)BR-1
VERMILION COUNTY
STA. 2033+66.18
STRUCTURE NO. 092-0208 (EB)
STRUCTURE NO. 092-0209 (WB)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 1 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	74
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
3. The existing bearings contain lead plates. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

PROFILE GRADE
(Along Griffin St.)

STATION 2033+66.18
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RTE. 74 - SEC. (92-12HB-4)BR-1
LOADING HL-93
STRUCTURE NO. 092-0208

STATION 2033+66.18
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RTE. 74 - SEC. (92-12HB-4)BR-1
LOADING HL-93
STRUCTURE NO. 092-0209

NAME PLATES
See Std. 515001

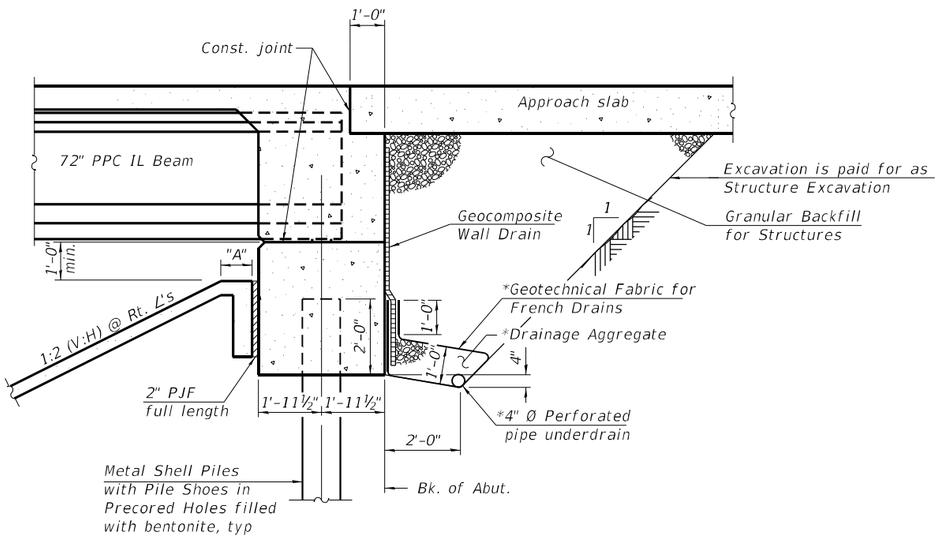
INDEX OF SHEETS

1	General Plan and Elevation
2	General Data
3	Pre-Stage I Deck Repairs
4	Substructure Layout
5	Temporary Soil Retention System
6	Stage Construction Details
7	Temporary Concrete Barrier
8-11	Top of Slab Elevations
12	Top of West Approach Slab Elevations (E.B.)
13	Top of East Approach Slab Elevations (E.B.)
14	Top of West Approach Slab Elevations (W.B.)
15	Top of East Approach Slab Elevations (W.B.)
16	Superstructure (E.B.)
17	Superstructure (W.B.)
18	Superstructure Details (E.B.) and (W.B.)
19	Diaphragm Details
20-22	Bridge Approach Slab Details
23	Framing Plan
24	Framing Plan Details
25	IL72N Beam
26	IL72N Beam Details
27	West Abutment (E.B.)
28	East Abutment (E.B.)
29	West Abutment (W.B.)
30	East Abutment (W.B.)
31	Wingwall Extension Details
32	Concrete Parapet Slipforming Option
33	Metal Shell Pile Details
34	Bar Splicer Assembly and Mechanical Splicer Details
35-38	Soil Boring Logs

TOTAL BILL OF MATERIAL

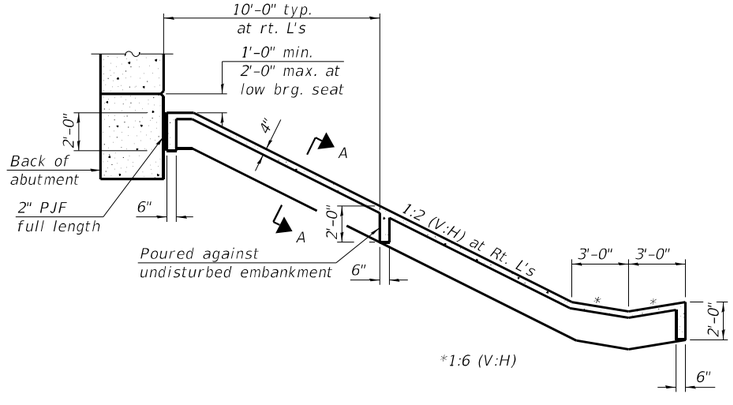
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each			1
Removal of Existing Structures No. 2	Each			1
Structure Excavation	Cu. Yd.		413	413
Floor Drains	Each	24		24
Concrete Structures	Cu. Yd.		182.9	182.9
Concrete Superstructure	Cu. Yd.	596.0		596.0
Protective Coat	Sq. Yd.	2,240		2,240
Concrete Superstructure (Approach Slab)	Cu. Yd.	237.4		237.4
Furnishing and Erecting Precast Prestressed Concrete Beams, IL72N	Foot	1,800		1,800
Reinforcement Bars	Pound		1,030	1,030
Reinforcement Bars, Epoxy Coated	Pound	199,600	37,000	236,600
Bar Splicers	Each	1,370	200	1,570
Slope Wall 4 Inch	Sq. Yd.		1,665	1,665
Furnishing Metal Shell Piles 14"x0.312"	Foot		2,156	2,156
Driving Piles	Foot		2,156	2,156
Test Piles Metal Shells	Each		4	4
Pile Shoes	Each		48	48
Name Plates	Each	2		2
Temporary Soil Retention System	Sq. Ft.		577	577
Granular Backfill for Structures	Cu. Yd.		608	608
Geocomposite Wall Drain	Sq. Yd.		264	264
Pipe Underdrains for Structures 4"	Foot		311	311
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,124		1,124
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	79		79
Deck Slab Repair (Partial)	Sq. Yd.	53		53
Diamond Grinding (Bridge Section)	Sq. Yd.	2,088		2,088
Temporary Support System	Each		4	4
Bridge Wearing Surface Removal	Sq. Yd.	526		526
Polymerized Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N90	Ton	59		59
Bituminous Materials (Tack Coat)	Pound	240		240

"A" Berm width varies
0" to 1'-6"" at each abutment



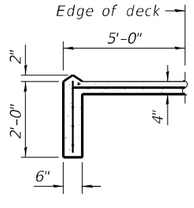
SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures.



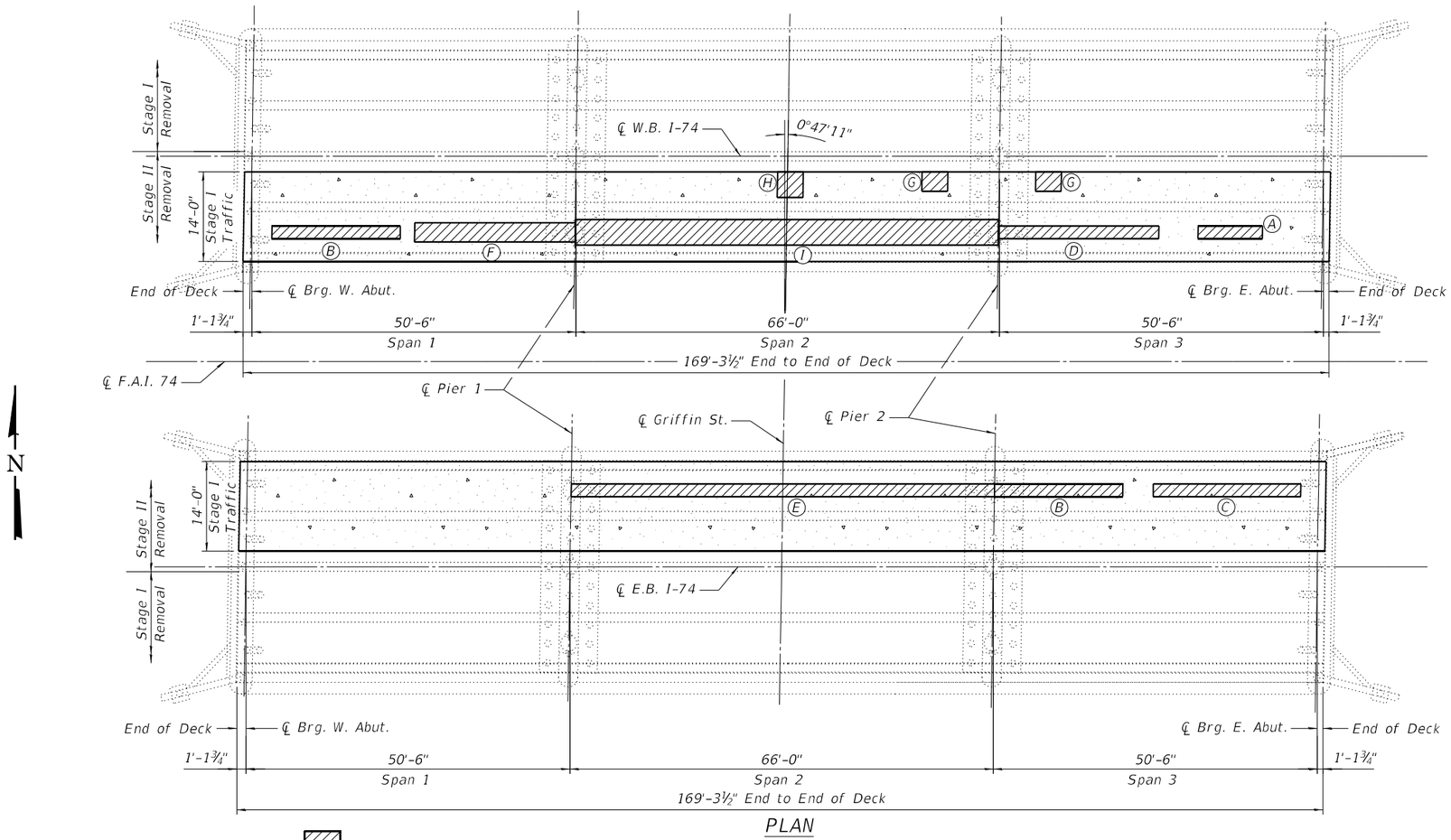
SECTION THRU CONCRETE SLOPEWALL

Note:
Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



SECTION A-A

Note:
All drainage system components and Granular Backfill for Structures shall extend from the ℄ F.A.I. 74 to 2'-0" from the end of each wingwall extension except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



PLAN

N

Deck Slab Repair (Full Depth)

Bridge Wearing Surface Removal and Proposed HMA Surface, 2"

DECK SLAB REPAIR TABLE

Label	Size	Plan Qty. Deck Slab Repair (Part. Depth) Sq. Ft.	Plan Qty. Deck Slab Repair (FD Type I) Sq. Ft.	Plan Qty. Deck Slab Repair (FD Type II) Sq. Ft.	As Built Deck Slab Repair (FD Type I) Sq. Ft.	As Built Deck Slab Repair (FD Type II) Sq. Ft.
A	2' x 10'			20		
B	2' x 20' x 2 Loc.			80		
C	2' x 23'			46		
D	2' x 25'			50		
E	2' x 66'			132		
F	3' x 25'			75		
G	4' x 3' x 2 Loc.			24		
H	4' x 4'			16		
I	4' x 66'			264		
	W.B. Deck Stage I	237				
	E.B. Deck Stage I	237				
	Totals	474		707		

Notes:

Deck survey performed on February 1, 2023. Locations and size shown in the plan view are approximate.

Longitudinal removal for Deck Slab Repair (Full-Depth, Type II) must be done in alternating sections of no more than 10 feet. Adjacent sections must not be removed until both of the following requirements are met:

1. At least 72 hours shall have elapsed from the end of the previous pour, and
2. The concrete shall have attained a minimum modulus of rupture of 675 psi or a minimum compressive strength of 4000 psi.

The Deck Slab Repair (Partial) Quantity has been estimated as 10% of the Stage I Traffic deck area.

Actual size and locations of full-depth patches shall be shown on this sheet and documented in the Deck Slab Repair Table under "As Built".

Removal of existing 2" concrete wearing surface shall be completed according to the Special Provision for Bridge Wearing Surface Removal.

See Roadway Plans for Bridge Staging Typicals sheets.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	79
Deck Slab Repair (Partial)	Sq. Yd.	53
Bridge Wearing Surface Removal	Sq. Yd.	526
Polymerized Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N90	Ton	59
Bituminous Materials (Tack Coat)	Pound	240

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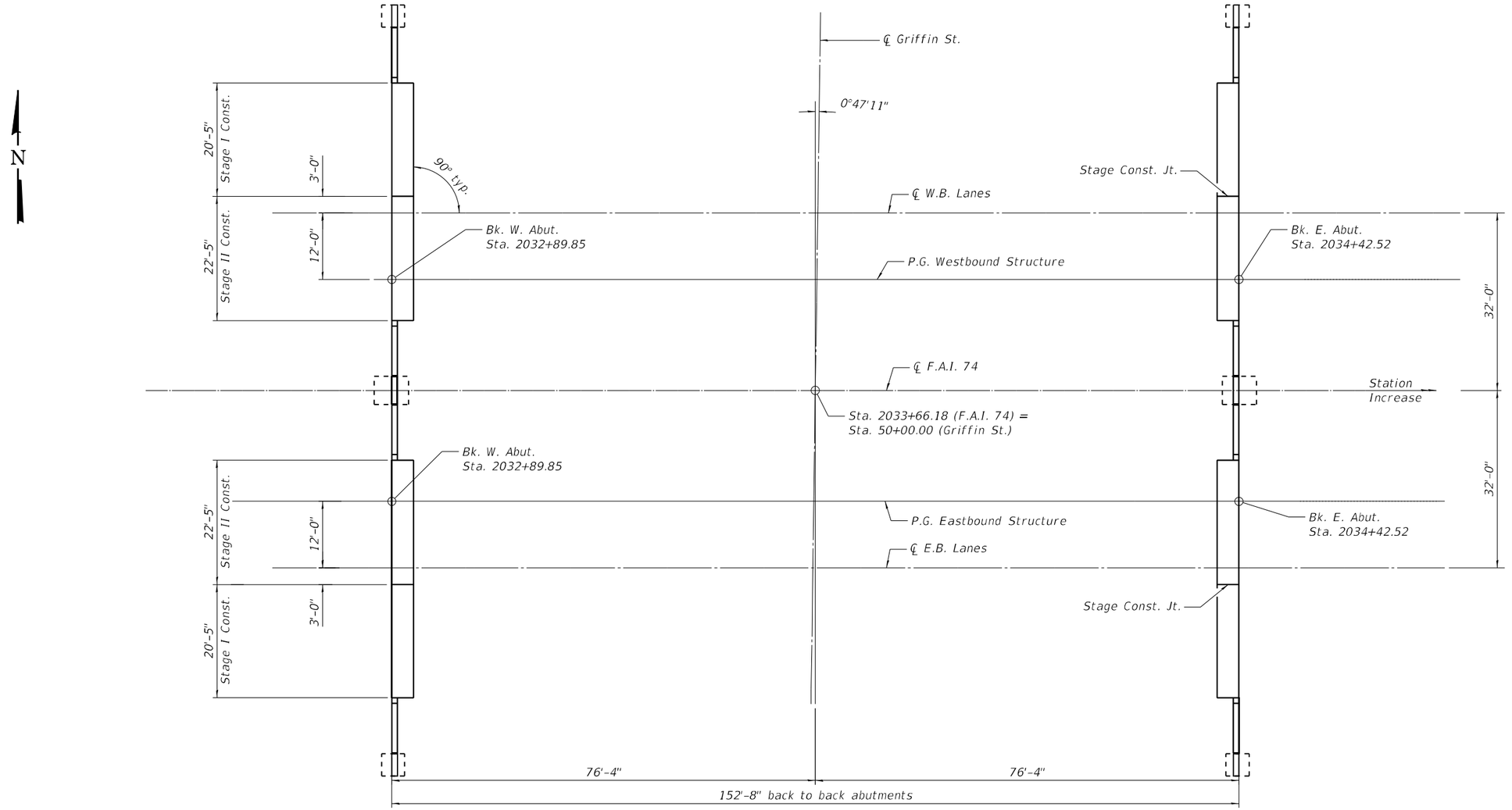
PRE - STAGE I DECK REPAIRS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 3 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	76
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



SUBSTRUCTURE LAYOUT

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SUBSTRUCTURE LAYOUT
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 4 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 70860		
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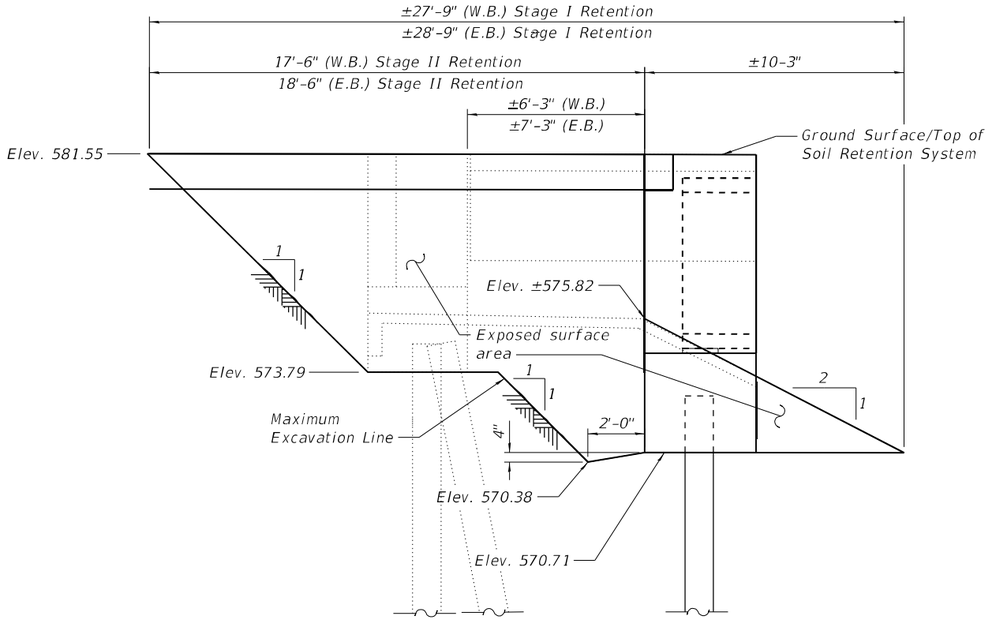
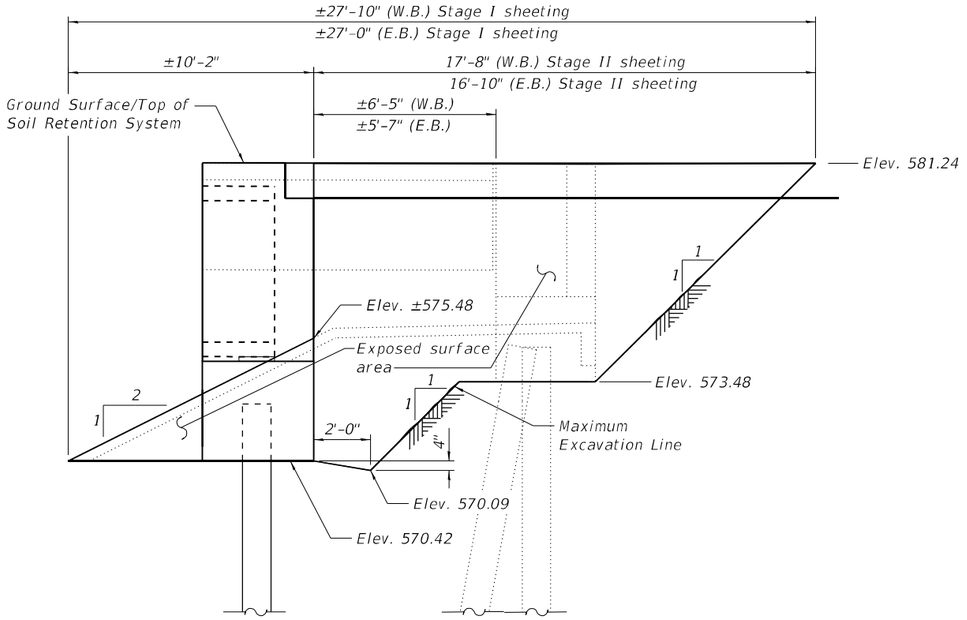


WEST ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM

(Looking North)



EAST ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM

(Looking North)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 5 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 70860		
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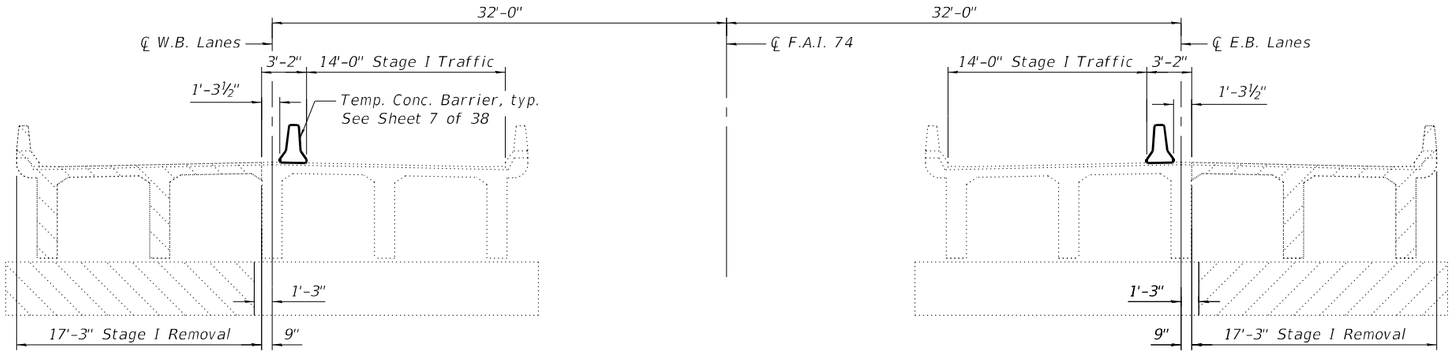
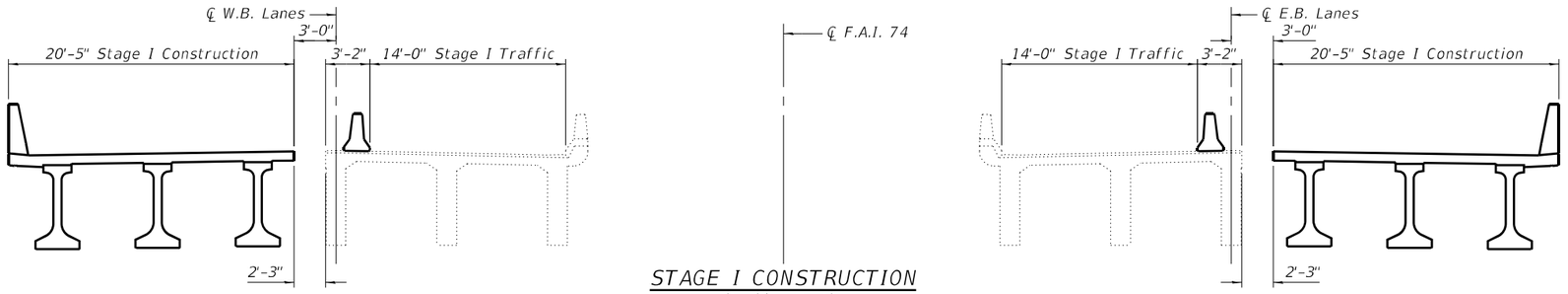
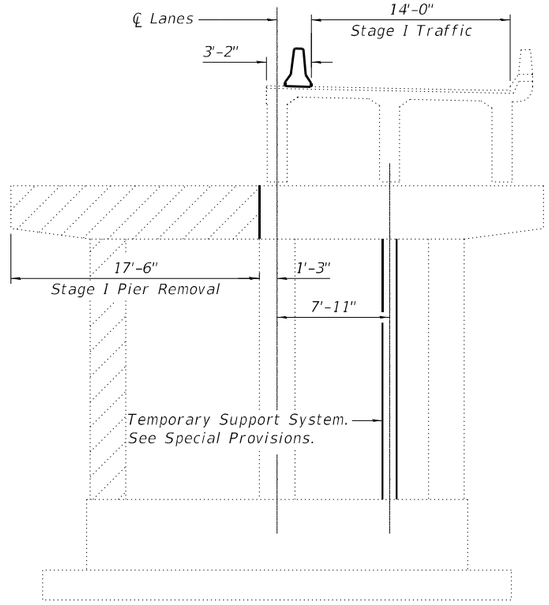


STAGE I REMOVAL
(Looking East)

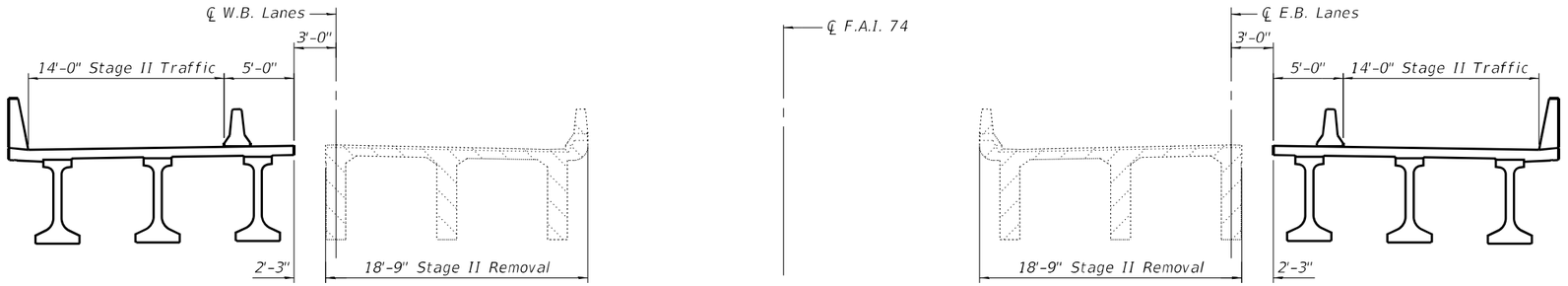


STAGE I CONSTRUCTION
(Looking East)

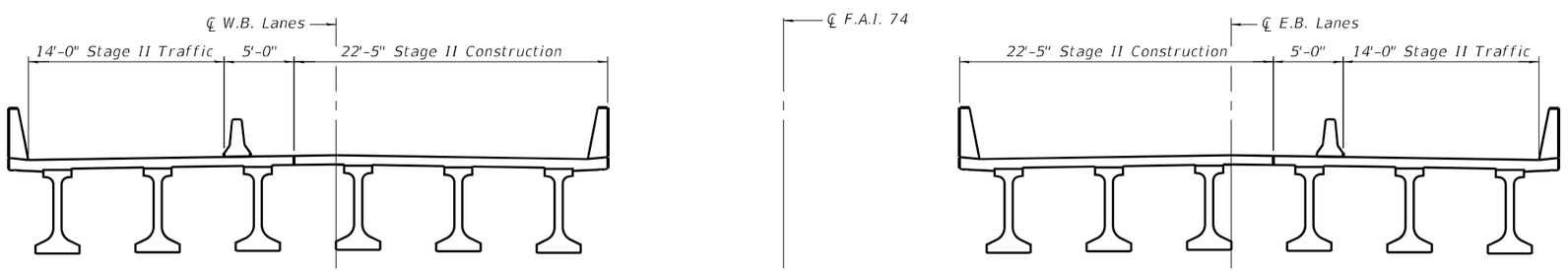


TEMPORARY SUPPORT SYSTEM AT PIERS
(Showing W.B Looking east, E.B. symmetrical about ℄ F.A.I. 74)

Temporary Support Reactions (Unfactored)	
Dead Load	Live Load
35 kips	58 kips



STAGE II REMOVAL
(Looking East)



STAGE II CONSTRUCTION
(Looking East)

Notes:

The Temporary Support System shall be in place before superstructure removal.

The Temporary Support System shown is a general representation of a possible support system. The contractor shall employ an Illinois Licensed Structural Engineer to design the final system and submit for review and approval by the Engineer.

Hatched area indicates Removal of Existing Structures No. 1 or No. 2.

For quantities of Temporary Concrete Barrier, see roadway plans.

Stage Removal Lines are different for the superstructure and substructure.

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STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 6 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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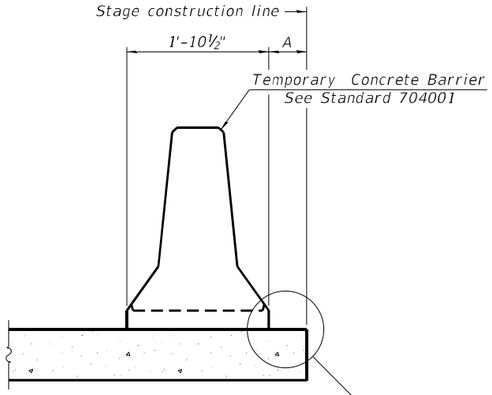
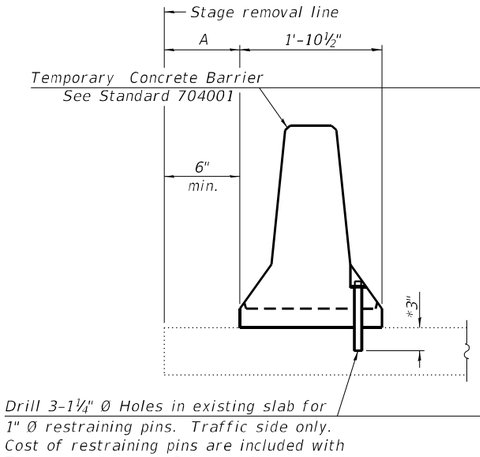
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



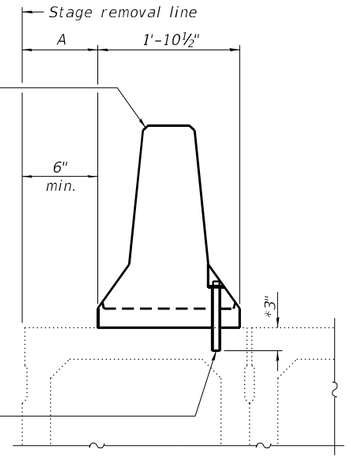
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

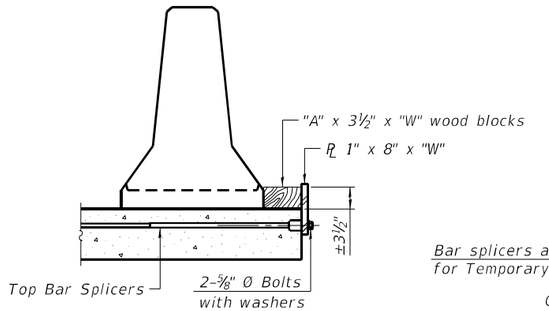
EXISTING SLAB



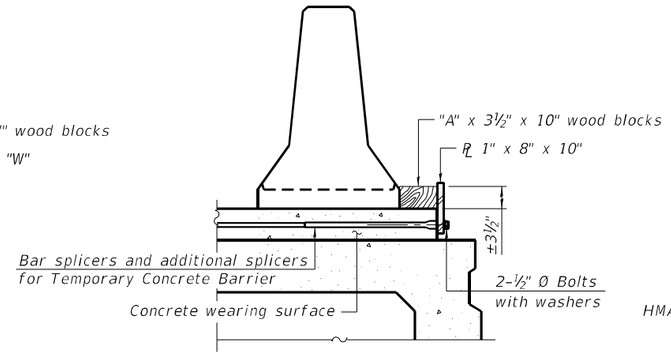
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

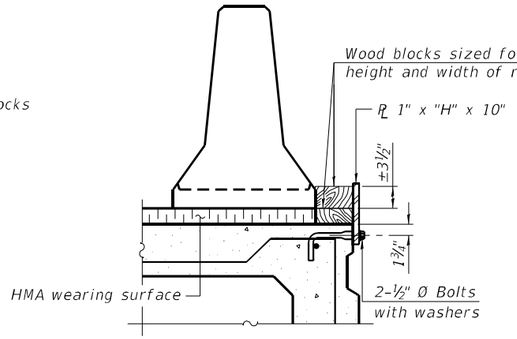
SECTIONS THRU SLAB OR DECK BEAM



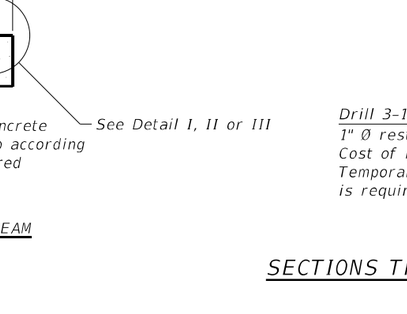
DETAIL I



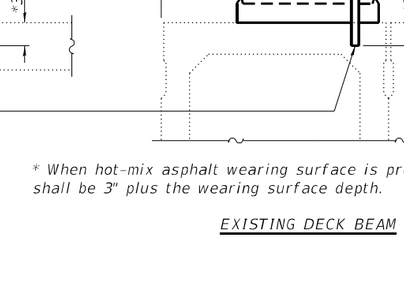
DETAIL II



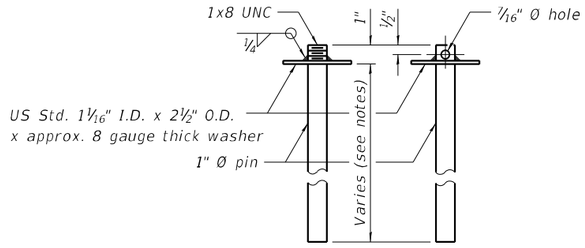
DETAIL III



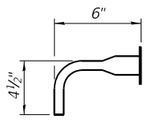
STEEL RETAINER ℄ 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER ℄ 1" x "H" x 10"
(Detail III)



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

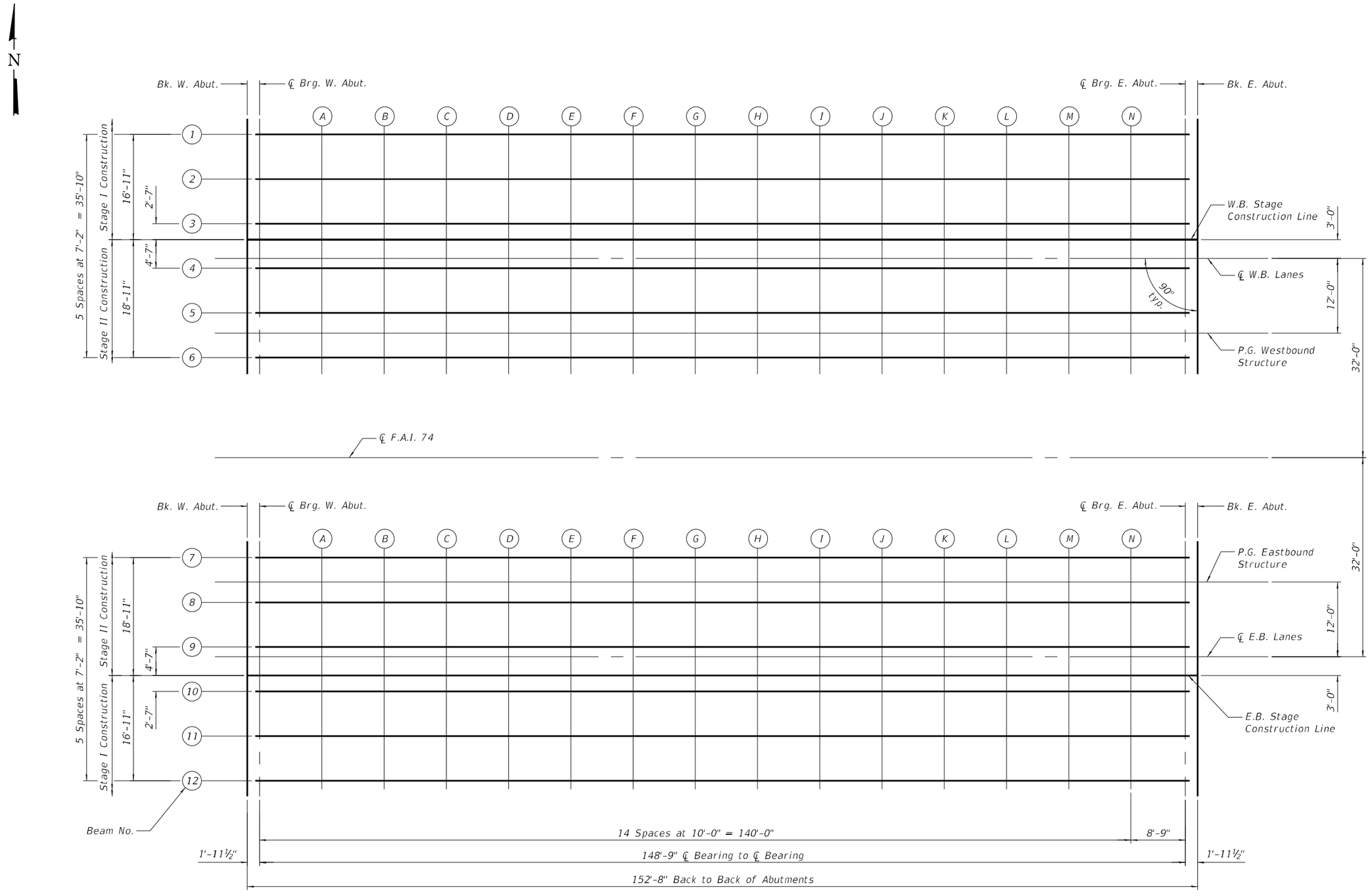
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

10-12-2021



PLAN

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DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 8 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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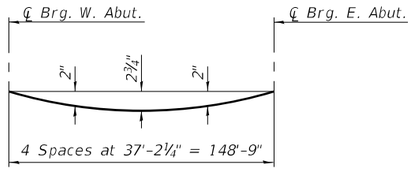
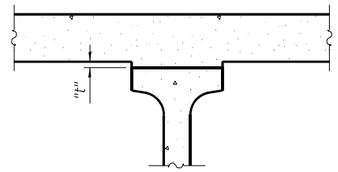
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown below and on sheets 10 and 11 of 38.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 8 of 38. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections and Grinding" shown below and on sheets 10 and 11 of 38, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown below and on sheets 10 and 11 of 38. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-51.92	581.22	581.24
℄ Brg. W. Abut.	2032+91.81	-51.92	581.21	581.23
A	2033+01.81	-51.92	581.19	581.26
B	2033+11.81	-51.92	581.17	581.29
C	2033+21.81	-51.92	581.15	581.31
D	2033+31.81	-51.92	581.13	581.33
E	2033+41.81	-51.92	581.11	581.34
F	2033+51.81	-51.92	581.09	581.34
G	2033+61.81	-51.92	581.07	581.33
H	2033+71.81	-51.92	581.05	581.31
I	2033+81.81	-51.92	581.03	581.28
J	2033+91.81	-51.92	581.01	581.23
K	2034+01.81	-51.92	580.99	581.19
L	2034+11.81	-51.92	580.97	581.13
M	2034+21.81	-51.92	580.95	581.07
N	2034+31.81	-51.92	580.93	581.00
℄ Brg. E. Abut.	2034+40.56	-51.92	580.92	580.94
Bk. E. Abut.	2034+42.52	-51.92	580.91	580.93

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-44.75	581.36	581.38
℄ Brg. W. Abut.	2032+91.81	-44.75	581.36	581.38
A	2033+01.81	-44.75	581.34	581.41
B	2033+11.81	-44.75	581.32	581.44
C	2033+21.81	-44.75	581.30	581.46
D	2033+31.81	-44.75	581.28	581.48
E	2033+41.81	-44.75	581.26	581.48
F	2033+51.81	-44.75	581.24	581.48
G	2033+61.81	-44.75	581.22	581.47
H	2033+71.81	-44.75	581.20	581.45
I	2033+81.81	-44.75	581.18	581.42
J	2033+91.81	-44.75	581.16	581.38
K	2034+01.81	-44.75	581.14	581.33
L	2034+11.81	-44.75	581.12	581.27
M	2034+21.81	-44.75	581.10	581.21
N	2034+31.81	-44.75	581.08	581.14
℄ Brg. E. Abut.	2034+40.56	-44.75	581.06	581.08
Bk. E. Abut.	2034+42.52	-44.75	581.05	581.07

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-37.58	581.47	581.49
℄ Brg. W. Abut.	2032+91.81	-37.58	581.47	581.49
A	2033+01.81	-37.58	581.45	581.52
B	2033+11.81	-37.58	581.43	581.55
C	2033+21.81	-37.58	581.41	581.57
D	2033+31.81	-37.58	581.39	581.58
E	2033+41.81	-37.58	581.37	581.59
F	2033+51.81	-37.58	581.35	581.59
G	2033+61.81	-37.58	581.33	581.58
H	2033+71.81	-37.58	581.31	581.56
I	2033+81.81	-37.58	581.29	581.53
J	2033+91.81	-37.58	581.27	581.49
K	2034+01.81	-37.58	581.25	581.44
L	2034+11.81	-37.58	581.23	581.38
M	2034+21.81	-37.58	581.21	581.32
N	2034+31.81	-37.58	581.19	581.25
℄ Brg. E. Abut.	2034+40.56	-37.58	581.17	581.19
Bk. E. Abut.	2034+42.52	-37.58	581.17	581.19

W.B. STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-35.00	581.51	581 53
℄ Brg. W. Abut.	2032+91.81	-35.00	581.51	581 53
A	2033+01.81	-35.00	581.49	581 56
B	2033+11.81	-35.00	581.47	581 59
C	2033+21.81	-35.00	581.45	581 61
D	2033+31.81	-35.00	581.43	581 63
E	2033+41.81	-35.00	581.41	581 63
F	2033+51.81	-35.00	581.39	581 63
G	2033+61.81	-35.00	581.37	581 62
H	2033+71.81	-35.00	581.35	581 60
I	2033+81.81	-35.00	581.33	581 57
J	2033+91.81	-35.00	581.31	581 53
K	2034+01.81	-35.00	581.29	581 48
L	2034+11.81	-35.00	581.27	581 42
M	2034+21.81	-35.00	581.25	581 36
N	2034+31.81	-35.00	581.23	581 29
℄ Brg. E. Abut.	2034+40.56	-35.00	581.21	581 23
Bk. E. Abut.	2034+42.52	-35.00	581.20	581 22

℄ W.B. LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-32.00	581.56	581.58
℄ Brg. W. Abut.	2032+91.81	-32.00	581.55	581.57
A	2033+01.81	-32.00	581.53	581.60
B	2033+11.81	-32.00	581.51	581.63
C	2033+21.81	-32.00	581.49	581.65
D	2033+31.81	-32.00	581.47	581.67
E	2033+41.81	-32.00	581.45	581.68
F	2033+51.81	-32.00	581.43	581.68
G	2033+61.81	-32.00	581.41	581.66
H	2033+71.81	-32.00	581.39	581.64
I	2033+81.81	-32.00	581.37	581.61
J	2033+91.81	-32.00	581.35	581.57
K	2034+01.81	-32.00	581.33	581.52
L	2034+11.81	-32.00	581.31	581.47
M	2034+21.81	-32.00	581.29	581.40
N	2034+31.81	-32.00	581.27	581.34
℄ Brg. E. Abut.	2034+40.56	-32.00	581.25	581.27
Bk. E. Abut.	2034+42.52	-32.00	581.25	581.27

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-30.42	581.53	581.55
℄ Brg. W. Abut.	2032+91.81	-30.42	581.53	581.55
A	2033+01.81	-30.42	581.51	581.58
B	2033+11.81	-30.42	581.49	581.61
C	2033+21.81	-30.42	581.47	581.63
D	2033+31.81	-30.42	581.45	581.64
E	2033+41.81	-30.42	581.43	581.65
F	2033+51.81	-30.42	581.41	581.65
G	2033+61.81	-30.42	581.39	581.64
H	2033+71.81	-30.42	581.37	581.62
I	2033+81.81	-30.42	581.35	581.59
J	2033+91.81	-30.42	581.33	581.55
K	2034+01.81	-30.42	581.31	581.50
L	2034+11.81	-30.42	581.29	581.44
M	2034+21.81	-30.42	581.27	581.38
N	2034+31.81	-30.42	581.25	581.31
℄ Brg. E. Abut.	2034+40.56	-30.42	581.23	581.25
Bk. E. Abut.	2034+42.52	-30.42	581.23	581.25

Note:
Offsets Measured from ℄ I-74.

MODEL: Default
FILE NAME: P:\2020\2008040\4 CADD - DWG\4.4 Struc\092-0208(0209)\092020809-70860-009-Top of Slab Elevations.dgn
4/25/2023 11:32:42 AM

TWM, INC.
WWW.TWM-INC.COM
ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bpolter	DESIGNED - MAL	REVISED -	
	CHECKED - BWP	REVISED -	
PLOT SCALE = 0.166667 ' / in.	DRAWN - MAL	REVISED -	
PLOT DATE = 4/25/2023	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0209 (W.B.)
SHEET 9 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	82
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-23.25	581.42	581.44
℄ Brg. W. Abut.	2032+91.81	-23.25	581.42	581.44
A	2033+01.81	-23.25	581.40	581.47
B	2033+11.81	-23.25	581.38	581.50
C	2033+21.81	-23.25	581.36	581.52
D	2033+31.81	-23.25	581.34	581.54
E	2033+41.81	-23.25	581.32	581.55
F	2033+51.81	-23.25	581.30	581.54
G	2033+61.81	-23.25	581.28	581.53
H	2033+71.81	-23.25	581.26	581.51
I	2033+81.81	-23.25	581.24	581.48
J	2033+91.81	-23.25	581.22	581.44
K	2034+01.81	-23.25	581.20	581.39
L	2034+11.81	-23.25	581.18	581.34
M	2034+21.81	-23.25	581.16	581.27
N	2034+31.81	-23.25	581.14	581.20
℄ Brg. E. Abut.	2034+40.56	-23.25	581.12	581.14
Bk. E. Abut.	2034+42.52	-23.25	581.12	581.14

P.G. WESTBOUND STRUCTURE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-20.00	581.38	581.40
℄ Brg. W. Abut.	2032+91.81	-20.00	581.37	581.39
A	2033+01.81	-20.00	581.35	581.42
B	2033+11.81	-20.00	581.33	581.45
C	2033+21.81	-20.00	581.31	581.47
D	2033+31.81	-20.00	581.29	581.49
E	2033+41.81	-20.00	581.27	581.49
F	2033+51.81	-20.00	581.25	581.49
G	2033+61.81	-20.00	581.23	581.48
H	2033+71.81	-20.00	581.21	581.46
I	2033+81.81	-20.00	581.19	581.43
J	2033+91.81	-20.00	581.17	581.39
K	2034+01.81	-20.00	581.15	581.34
L	2034+11.81	-20.00	581.13	581.28
M	2034+21.81	-20.00	581.11	581.22
N	2034+31.81	-20.00	581.09	581.15
℄ Brg. E. Abut.	2034+40.56	-20.00	581.07	581.09
Bk. E. Abut.	2034+42.52	-20.00	581.07	581.09

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	-16.08	581.30	581.32
℄ Brg. W. Abut.	2032+91.81	-16.08	581.29	581.31
A	2033+01.81	-16.08	581.27	581.34
B	2033+11.81	-16.08	581.25	581.37
C	2033+21.81	-16.08	581.23	581.39
D	2033+31.81	-16.08	581.21	581.41
E	2033+41.81	-16.08	581.19	581.42
F	2033+51.81	-16.08	581.17	581.42
G	2033+61.81	-16.08	581.15	581.41
H	2033+71.81	-16.08	581.13	581.39
I	2033+81.81	-16.08	581.11	581.36
J	2033+91.81	-16.08	581.09	581.31
K	2034+01.81	-16.08	581.07	581.27
L	2034+11.81	-16.08	581.05	581.21
M	2034+21.81	-16.08	581.03	581.15
N	2034+31.81	-16.08	581.01	581.08
℄ Brg. E. Abut.	2034+40.56	-16.08	581.00	581.02
Bk. E. Abut.	2034+42.52	-16.08	580.99	581.01

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Girding
Bk. W. Abut.	2032+89.85	16.08	581.30	58!.32
℄ Brg. W. Abut.	2032+91.81	16.08	581.29	58!.31
A	2033+01.81	16.08	581.27	58!.34
B	2033+11.81	16.08	581.25	58!.37
C	2033+21.81	16.08	581.23	58!.39
D	2033+31.81	16.08	581.21	58!.41
E	2033+41.81	16.08	581.19	58!.42
F	2033+51.81	16.08	581.17	58!.42
G	2033+61.81	16.08	581.15	58!.40
H	2033+71.81	16.08	581.13	58!.38
I	2033+81.81	16.08	581.11	58!.35
J	2033+91.81	16.08	581.09	58!.31
K	2034+01.81	16.08	581.07	58!.26
L	2034+11.81	16.08	581.05	58!.21
M	2034+21.81	16.08	581.03	58!.14
N	2034+31.81	16.08	581.01	58!.08
℄ Brg. E. Abut.	2034+40.56	16.08	581.00	58!.02
Bk. E. Abut.	2034+42.52	16.08	580.99	58!.01

P.G. EASTBOUND STRUCTURE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	20.00	581.38	581.40
℄ Brg. W. Abut.	2032+91.81	20.00	581.37	581.39
A	2033+01.81	20.00	581.35	581.42
B	2033+11.81	20.00	581.33	581.45
C	2033+21.81	20.00	581.31	581.47
D	2033+31.81	20.00	581.29	581.48
E	2033+41.81	20.00	581.27	581.49
F	2033+51.81	20.00	581.25	581.49
G	2033+61.81	20.00	581.23	581.48
H	2033+71.81	20.00	581.21	581.46
I	2033+81.81	20.00	581.19	581.43
J	2033+91.81	20.00	581.17	581.39
K	2034+01.81	20.00	581.15	581.34
L	2034+11.81	20.00	581.13	581.28
M	2034+21.81	20.00	581.11	581.22
N	2034+31.81	20.00	581.09	581.15
℄ Brg. E. Abut.	2034+40.56	20.00	581.07	581.09
Bk. E. Abut.	2034+42.52	20.00	581.07	581.09

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	23.25	581.42	581.44
℄ Brg. W. Abut.	2032+91.81	23.25	581.42	581.44
A	2033+01.81	23.25	581.40	581.47
B	2033+11.81	23.25	581.38	581.50
C	2033+21.81	23.25	581.36	581.52
D	2033+31.81	23.25	581.34	581.54
E	2033+41.81	23.25	581.32	581.54
F	2033+51.81	23.25	581.30	581.54
G	2033+61.81	23.25	581.28	581.53
H	2033+71.81	23.25	581.26	581.51
I	2033+81.81	23.25	581.24	581.48
J	2033+91.81	23.25	581.22	581.44
K	2034+01.81	23.25	581.20	581.39
L	2034+11.81	23.25	581.18	581.33
M	2034+21.81	23.25	581.16	581.27
N	2034+31.81	23.25	581.14	581.20
℄ Brg. E. Abut.	2034+40.56	23.25	581.12	581.14
Bk. E. Abut.	2034+42.52	23.25	581.12	581.14

Note:
Offsets Measured from ℄ I-74.

MODEL: Default
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4/25/2023 11:32:48 AM

TWM, INC. WWW.TWM-INC.COM
ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bpolter		DESIGNED - MAL		REVISED -	
		CHECKED - BWP		REVISED -	
PLOT SCALE = 0.166667 ' / in.		DRAWN - MAL		REVISED -	
PLOT DATE = 4/25/2023		CHECKED - BWP		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 10 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	83
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	30.42	581.53	581.55
℄ Brg. W. Abut.	2032+91.81	30.42	581.53	581.55
A	2033+01.81	30.42	581.51	581.58
B	2033+11.81	30.42	581.49	581.60
C	2033+21.81	30.42	581.47	581.63
D	2033+31.81	30.42	581.45	581.64
E	2033+41.81	30.42	581.43	581.65
F	2033+51.81	30.42	581.41	581.65
G	2033+61.81	30.42	581.39	581.64
H	2033+71.81	30.42	581.37	581.62
I	2033+81.81	30.42	581.35	581.59
J	2033+91.81	30.42	581.33	581.55
K	2034+01.81	30.42	581.31	581.50
L	2034+11.81	30.42	581.29	581.44
M	2034+21.81	30.42	581.27	581.38
N	2034+31.81	30.42	581.25	581.31
℄ Brg. E. Abut.	2034+40.56	30.42	581.23	581.25
Bk. E. Abut.	2034+42.52	30.42	581.23	581.25

℄ E.B. LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	32.00	581.56	581.58
℄ Brg. W. Abut.	2032+91.81	32.00	581.55	581.57
A	2033+01.81	32.00	581.53	581.60
B	2033+11.81	32.00	581.51	581.63
C	2033+21.81	32.00	581.49	581.65
D	2033+31.81	32.00	581.47	581.67
E	2033+41.81	32.00	581.45	581.67
F	2033+51.81	32.00	581.43	581.67
G	2033+61.81	32.00	581.41	581.66
H	2033+71.81	32.00	581.39	581.64
I	2033+81.81	32.00	581.37	581.61
J	2033+91.81	32.00	581.35	581.57
K	2034+01.81	32.00	581.33	581.52
L	2034+11.81	32.00	581.31	581.47
M	2034+21.81	32.00	581.29	581.40
N	2034+31.81	32.00	581.27	581.34
℄ Brg. E. Abut.	2034+40.56	32.00	581.25	581.27
Bk. E. Abut.	2034+42.52	32.00	581.25	581.27

E.B. STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	35.00	581.51	581.53
℄ Brg. W. Abut.	2032+91.81	35.00	581.51	581.53
A	2033+01.81	35.00	581.49	581.56
B	2033+11.81	35.00	581.47	581.59
C	2033+21.81	35.00	581.45	581.61
D	2033+31.81	35.00	581.43	581.62
E	2033+41.81	35.00	581.41	581.63
F	2033+51.81	35.00	581.39	581.63
G	2033+61.81	35.00	581.37	581.62
H	2033+71.81	35.00	581.35	581.60
I	2033+81.81	35.00	581.33	581.57
J	2033+91.81	35.00	581.31	581.53
K	2034+01.81	35.00	581.29	581.48
L	2034+11.81	35.00	581.27	581.42
M	2034+21.81	35.00	581.25	581.36
N	2034+31.81	35.00	581.23	581.29
℄ Brg. E. Abut.	2034+40.56	35.00	581.21	581.23
Bk. E. Abut.	2034+42.52	35.00	581.20	581.22

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	37.58	581.47	581.49
℄ Brg. W. Abut.	2032+91.81	37.58	581.47	581.49
A	2033+01.81	37.58	581.45	581.52
B	2033+11.81	37.58	581.43	581.54
C	2033+21.81	37.58	581.41	581.57
D	2033+31.81	37.58	581.39	581.58
E	2033+41.81	37.58	581.37	581.59
F	2033+51.81	37.58	581.35	581.59
G	2033+61.81	37.58	581.33	581.58
H	2033+71.81	37.58	581.31	581.56
I	2033+81.81	37.58	581.29	581.53
J	2033+91.81	37.58	581.27	581.49
K	2034+01.81	37.58	581.25	581.44
L	2034+11.81	37.58	581.23	581.38
M	2034+21.81	37.58	581.21	581.32
N	2034+31.81	37.58	581.19	581.25
℄ Brg. E. Abut.	2034+40.56	37.58	581.17	581.19
Bk. E. Abut.	2034+42.52	37.58	581.17	581.19

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	44.75	581.36	581.38
℄ Brg. W. Abut.	2032+91.81	44.75	581.36	581.38
A	2033+01.81	44.75	581.34	581.41
B	2033+11.81	44.75	581.32	581.44
C	2033+21.81	44.75	581.30	581.46
D	2033+31.81	44.75	581.28	581.47
E	2033+41.81	44.75	581.26	581.48
F	2033+51.81	44.75	581.24	581.48
G	2033+61.81	44.75	581.22	581.47
H	2033+71.81	44.75	581.20	581.45
I	2033+81.81	44.75	581.18	581.42
J	2033+91.81	44.75	581.16	581.38
K	2034+01.81	44.75	581.14	581.33
L	2034+11.81	44.75	581.12	581.27
M	2034+21.81	44.75	581.10	581.21
N	2034+31.81	44.75	581.08	581.14
℄ Brg. E. Abut.	2034+40.56	44.75	581.06	581.08
Bk. E. Abut.	2034+42.52	44.75	581.05	581.07

GIRDER 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding
Bk. W. Abut.	2032+89.85	51.92	581.22	581.24
℄ Brg. W. Abut.	2032+91.81	51.92	581.21	581.23
A	2033+01.81	51.92	581.19	581.26
B	2033+11.81	51.92	581.17	581.29
C	2033+21.81	51.92	581.15	581.31
D	2033+31.81	51.92	581.13	581.33
E	2033+41.81	51.92	581.11	581.34
F	2033+51.81	51.92	581.09	581.34
G	2033+61.81	51.92	581.07	581.32
H	2033+71.81	51.92	581.05	581.30
I	2033+81.81	51.92	581.03	581.27
J	2033+91.81	51.92	581.01	581.23
K	2034+01.81	51.92	580.99	581.18
L	2034+11.81	51.92	580.97	581.13
M	2034+21.81	51.92	580.95	581.06
N	2034+31.81	51.92	580.93	581.00
℄ Brg. E. Abut.	2034+40.56	51.92	580.92	580.94
Bk. E. Abut.	2034+42.52	51.92	580.91	580.93

Note:
Offsets measured from ℄ I-74.

MODEL: Default
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4/25/2023 11:32:55 AM

TWM, INC.
WWW.TWM-INC.COM
ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bpolter		DESIGNED - MAL		REVISED -	
		CHECKED - BWP		REVISED -	
PLOT SCALE = 0.166667 ' / in.		DRAWN - MAL		REVISED -	
PLOT DATE = 4/25/2023		CHECKED - BWP		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 092-0208 (E.B.)
SHEET 11 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	84
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

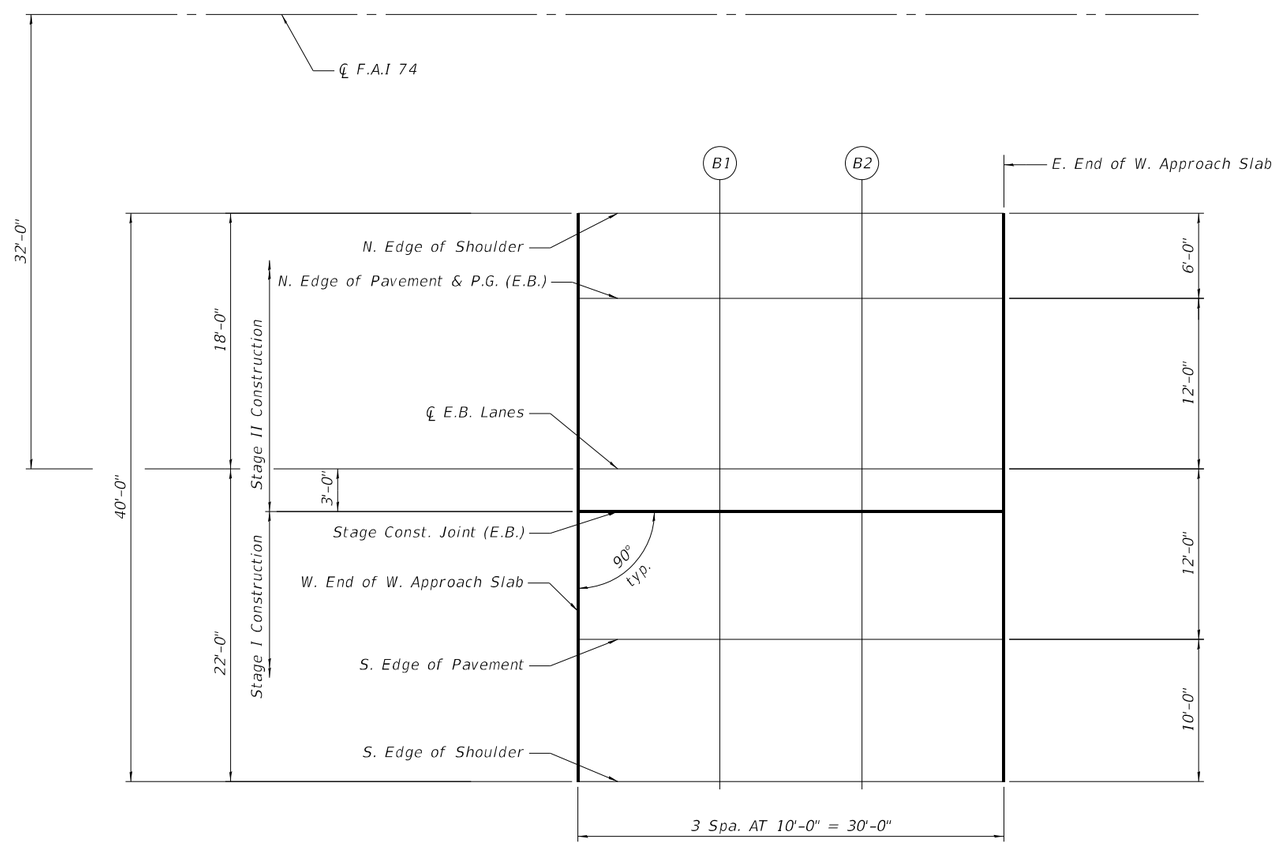
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	14.00	581.31	581.33
B1	2032+70.85	14.00	581.29	581.31
B2	2032+80.85	14.00	581.27	581.29
E. End of W. Approach	2032+90.85	14.00	581.25	581.27

NORTH EDGE OF PAVEMENT & P.G. (E.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	20.00	581.43	581.45
B1	2032+70.85	20.00	581.41	581.43
B2	2032+80.85	20.00	581.39	581.41
E. End of W. Approach	2032+90.85	20.00	581.37	581.39

℄ E.B. LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	32.00	581.61	581.63
B1	2032+70.85	32.00	581.59	581.61
B2	2032+80.85	32.00	581.57	581.59
E. End of W. Approach	2032+90.85	32.00	581.55	581.57



PLAN

STAGE CONSTRUCTION JOINT (E.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	35.00	581.57	581.59
B1	2032+70.85	35.00	581.55	581.57
B2	2032+80.85	35.00	581.53	581.55
E. End of W. Approach	2032+90.85	35.00	581.51	581.53

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	44.00	581.43	581.45
B1	2032+70.85	44.00	581.41	581.43
B2	2032+80.85	44.00	581.39	581.41
E. End of W. Approach	2032+90.85	44.00	581.37	581.39

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	54.00	581.23	581.25
B1	2032+70.85	54.00	581.21	581.23
B2	2032+80.85	54.00	581.19	581.21
E. End of W. Approach	2032+90.85	54.00	581.17	581.19

Note:
Offsets measured from ℄ I-74.

MODEL: Default
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TWM ENGINEERING & GEOSPATIAL SERVICES — TWM, INC. WWW.TWM-INC.COM — IL DESIGN FIRM LICENSE NO: 184-001220

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	CHECKED - BWP	REVISED -	
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PLOT DATE = 4/25/2023	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 092-0208 (E.B.)
SHEET 12 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	85
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	14.00	580.95	580.97
B3	2034+51.52	14.00	580.93	580.95
B4	2034+61.52	14.00	580.91	580.93
E. End of E. Approach	2034+71.52	14.00	580.89	580.91

NORTH EDGE OF PAVEMENT & P.G. (E.B.)

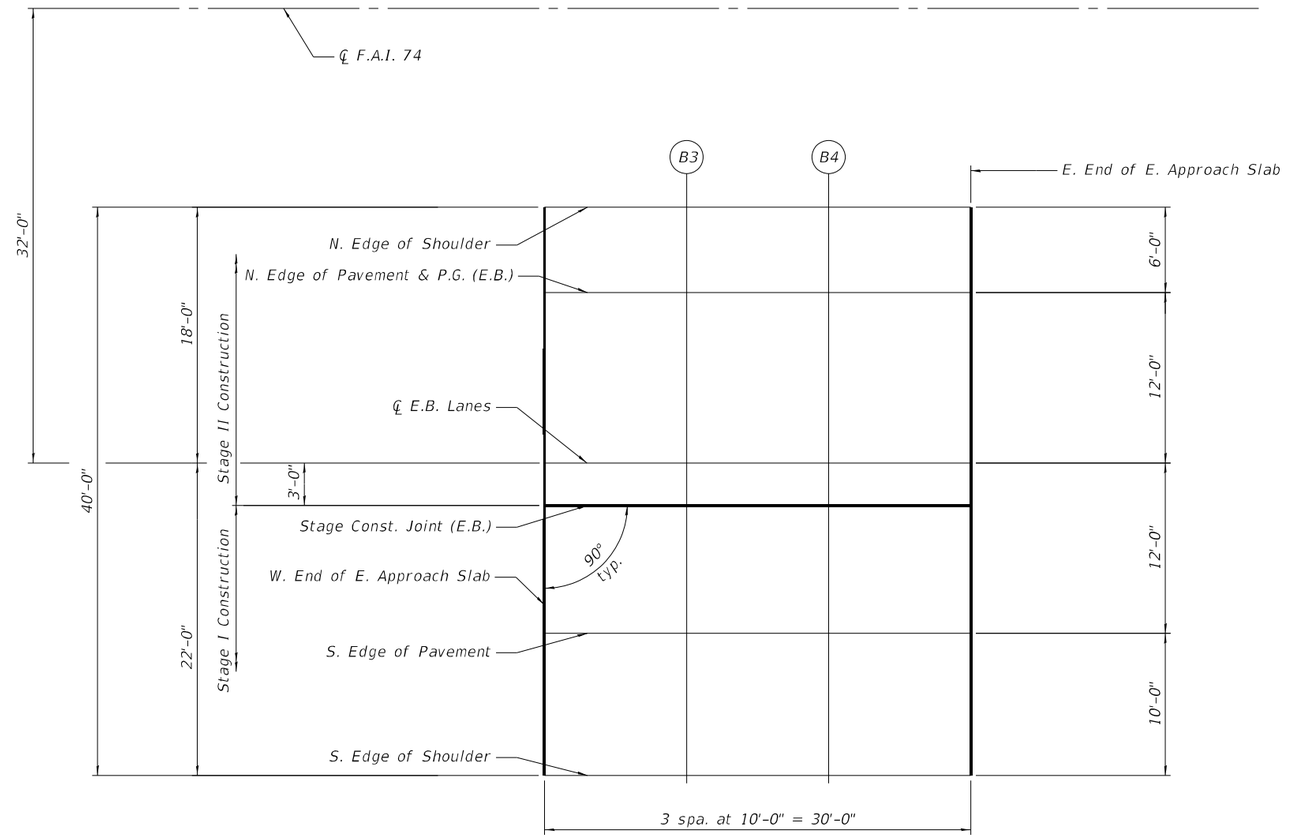
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	20.00	581.07	581.09
B3	2034+51.52	20.00	581.05	581.07
B4	2034+61.52	20.00	581.03	581.05
E. End of E. Approach	2034+71.52	20.00	581.01	581.03

℄ E.B. LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	32.00	581.25	581.27
B3	2034+51.52	32.00	581.23	581.25
B4	2034+61.52	32.00	581.21	581.23
E. End of E. Approach	2034+71.52	32.00	581.19	581.21

STAGE CONSTRUCTION JOINT (E.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	35.00	581.21	581.23
B3	2034+51.52	35.00	581.19	581.21
B4	2034+61.52	35.00	581.17	581.19
E. End of E. Approach	2034+71.52	35.00	581.15	581.17



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	44.00	581.07	581.09
B3	2034+51.52	44.00	581.05	581.07
B4	2034+61.52	44.00	581.03	581.05
E. End of E. Approach	2034+71.52	44.00	581.01	581.03

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	54.00	580.87	580.89
B3	2034+51.52	54.00	581.85	581.87
B4	2034+61.52	54.00	581.83	581.85
E. End of E. Approach	2034+71.52	54.00	581.81	581.83

Note:
Offsets measured from ℄ I-74

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TWM, INC. WWW.TWM-INC.COM
ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

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PLOT DATE = 4/25/2023	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 092-0208 (E.B.)
SHEET 13 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	86
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

SOUTH EDGE OF SHOULDER

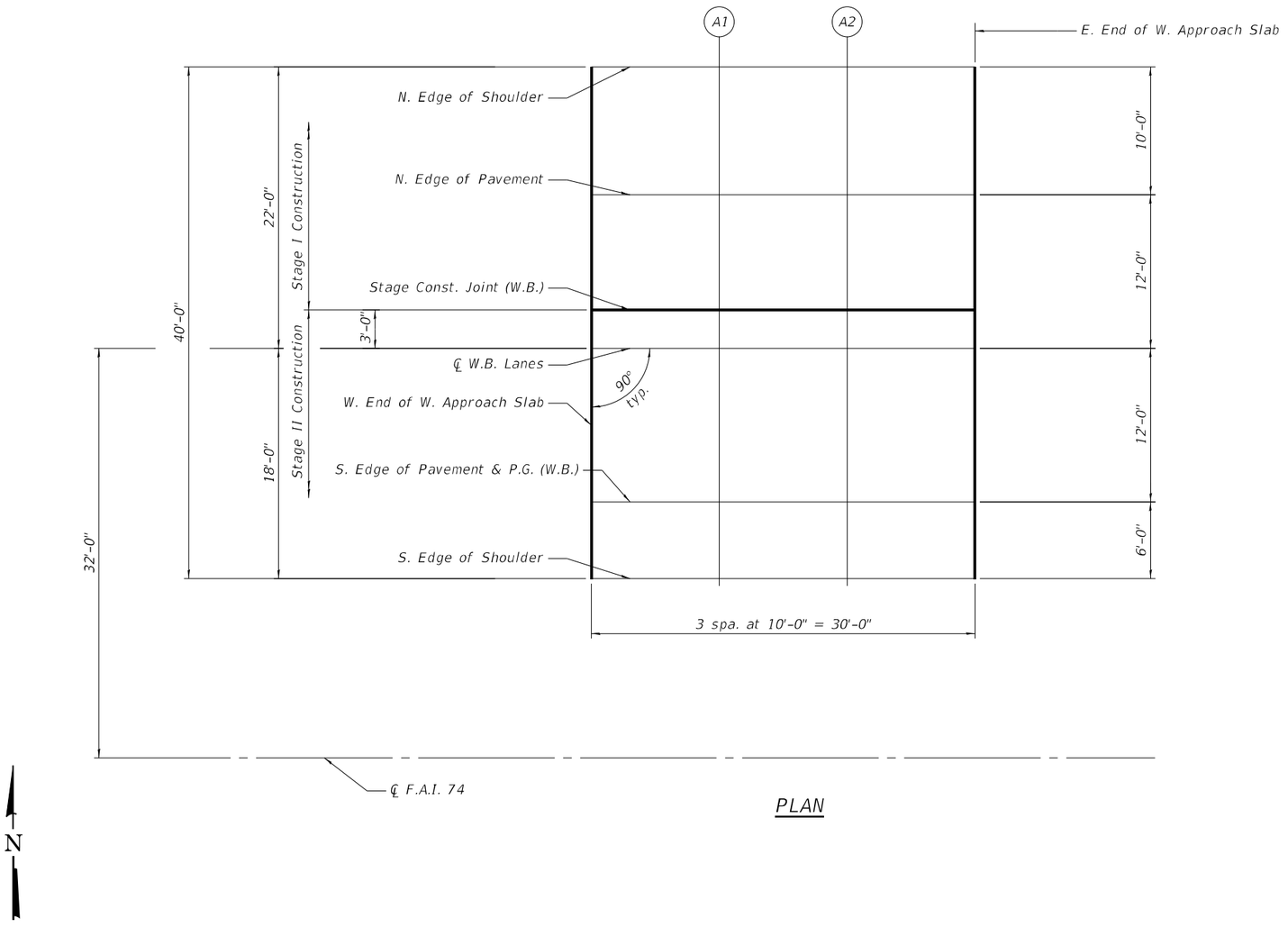
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	-14.00	581.31	581.33
A1	2032+70.85	-14.00	581.29	581.31
A2	2032+80.85	-14.00	581.27	581.29
E. End of W. Approach	2032+90.85	-14.00	581.25	581.27

SOUTH EDGE OF PAVEMENT & P.G. (W.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	-20.00	581.43	581.45
A1	2032+70.85	-20.00	581.41	581.43
A2	2032+80.85	-20.00	581.39	581.41
E. End of W. Approach	2032+90.85	-20.00	581.37	581.39

℄ W.B. LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	-32.00	581.61	581.63
A1	2032+70.85	-32.00	581.59	581.61
A2	2032+80.85	-32.00	581.57	581.59
E. End of W. Approach	2032+90.85	-32.00	581.55	581.57



PLAN

STAGE CONSTRUCTION JOINT (W.B)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	-35.00	581.57	581.59
A1	2032+70.85	-35.00	581.55	581.57
A2	2032+80.85	-35.00	581.53	581.55
E. End of W. Approach	2032+90.85	-35.00	581.51	581.53

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	-44.00	581.43	581.45
A1	2032+70.85	-44.00	581.41	581.43
A2	2032+80.85	-44.00	581.39	581.41
E. End of W. Approach	2032+90.85	-44.00	581.37	581.39

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	2032+60.85	-54.00	581.23	581.25
A1	2032+70.85	-54.00	581.21	581.23
A2	2032+80.85	-54.00	581.19	581.21
E. End of W. Approach	2032+90.85	-54.00	581.17	581.19

Note:
Offsets measured from ℄ I-74

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TWM, INC.
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ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 092-0209 (W.B.)
SHEET 14 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	87
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

SOUTH EDGE OF SHOULDER

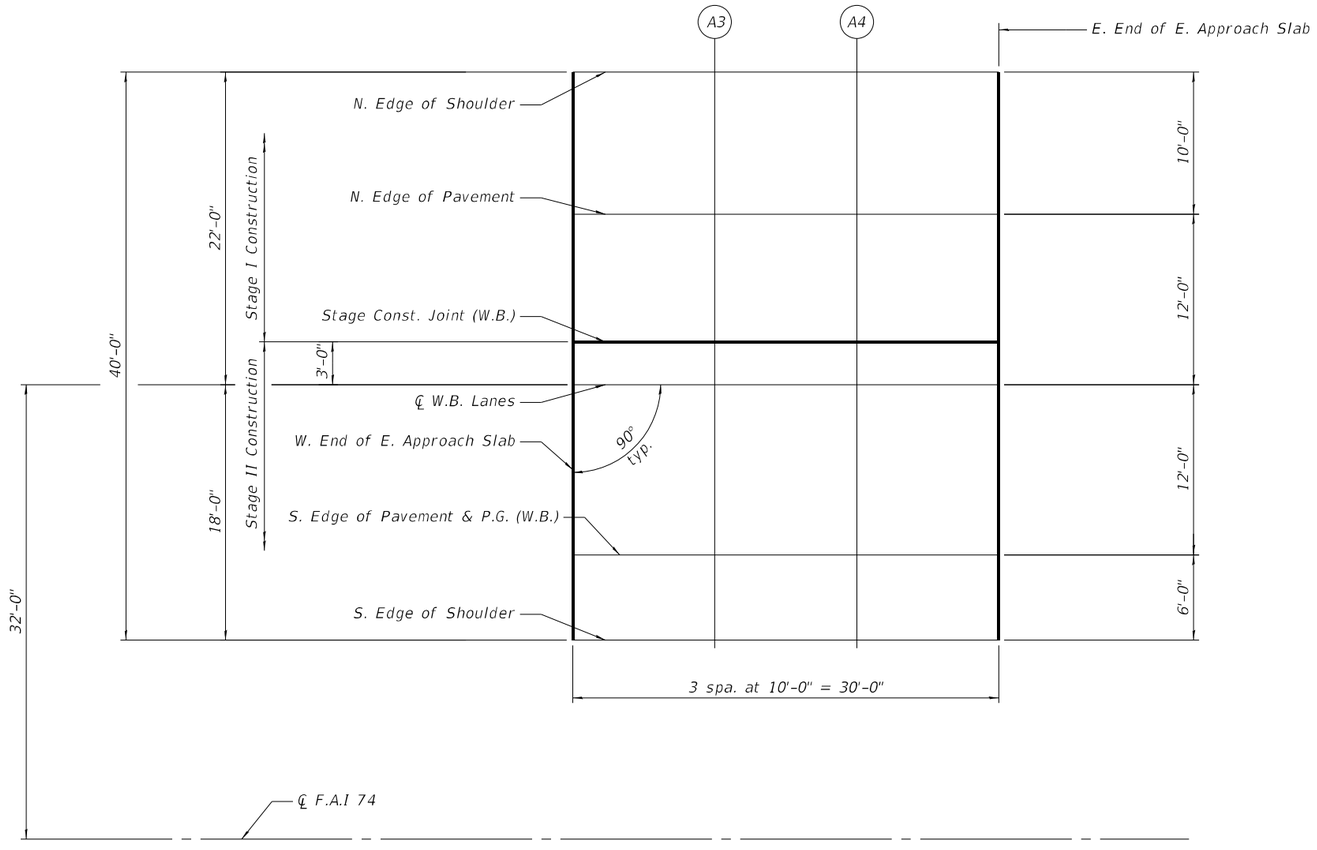
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	-14.00	580.95	580.97
A3	2034+51.52	-14.00	580.93	580.95
A4	2034+61.52	-14.00	580.91	580.93
E. End of E. Approach	2034+71.52	-14.00	580.89	580.91

SOUTH EDGE OF PAVEMENT & P.G. (W.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	-20.00	581.07	581.09
A3	2034+51.52	-20.00	581.05	581.07
A4	2034+61.52	-20.00	581.03	581.05
E. End of E. Approach	2034+71.52	-20.00	581.01	581.03

℄ W.B. LANES

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	-32.00	581.25	581.27
A3	2034+51.52	-32.00	581.23	581.25
A4	2034+61.52	-32.00	581.21	581.23
E. End of E. Approach	2034+71.52	-32.00	581.19	581.21



PLAN

STAGE CONSTRUCTION JOINT (W.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	-35.00	581.21	581.23
A3	2034+51.52	-35.00	581.19	581.21
A4	2034+61.52	-35.00	581.17	581.19
E. End of E. Approach	2034+71.52	-35.00	581.15	581.17

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	-44.00	581.07	581.09
A3	2034+51.52	-44.00	581.05	581.07
A4	2034+61.52	-44.00	581.03	581.05
E. End of E. Approach	2034+71.52	-44.00	581.01	581.03

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	2034+41.52	-54.00	580.87	580.89
A3	2034+51.52	-54.00	580.85	580.87
A4	2034+61.52	-54.00	580.83	580.85
E. End of E. Approach	2034+71.52	-54.00	580.81	580.83

Note:
Offsets measured from ℄ I-74.

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4/25/2023 11:33:07 AM

TWM, INC.
WWW.TWM-INC.COM
ENGINEERING
GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

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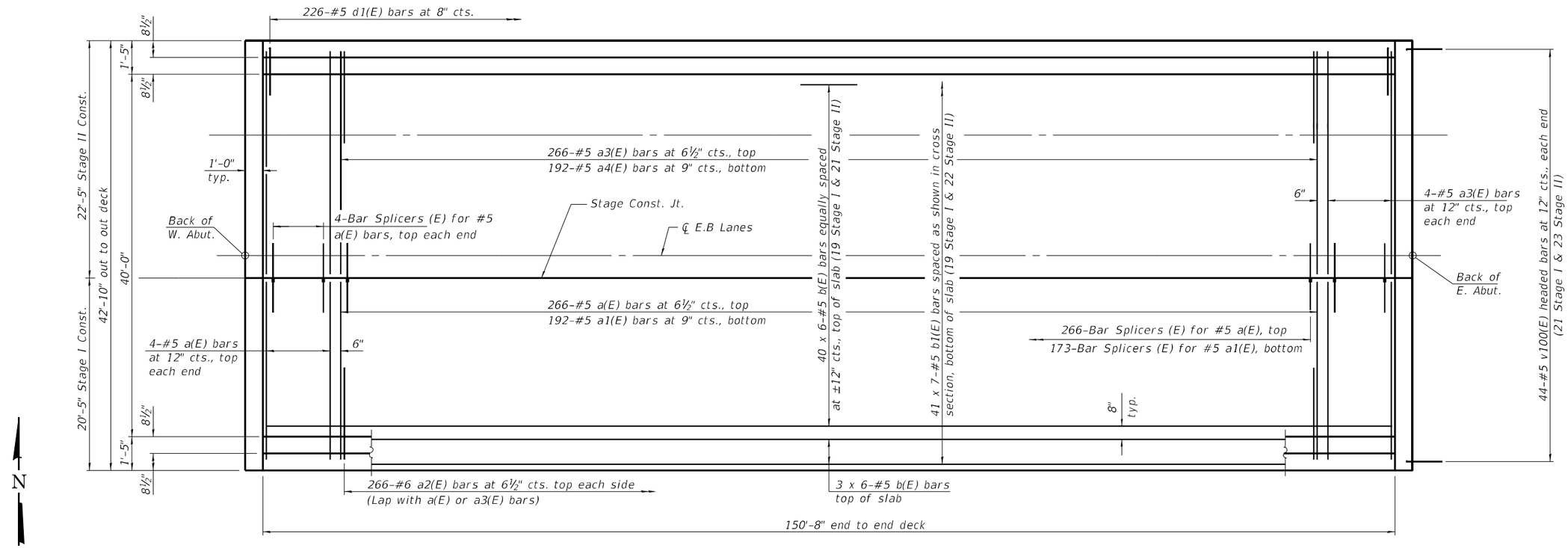
PLOT DATE = 4/25/2023	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 092-0209 (W.B.)
SHEET 15 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	88
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



PLAN

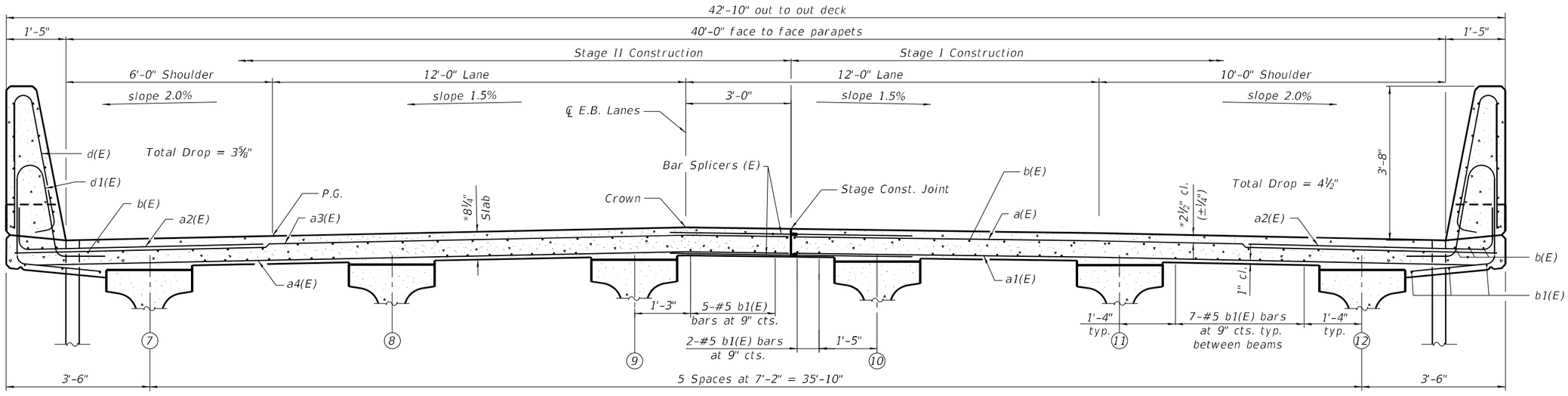
MINIMUM BAR LAP

#5 bar = 3'-6"

Notes:

See sheet 18 of 38 for superstructure details and Bill of Material.

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

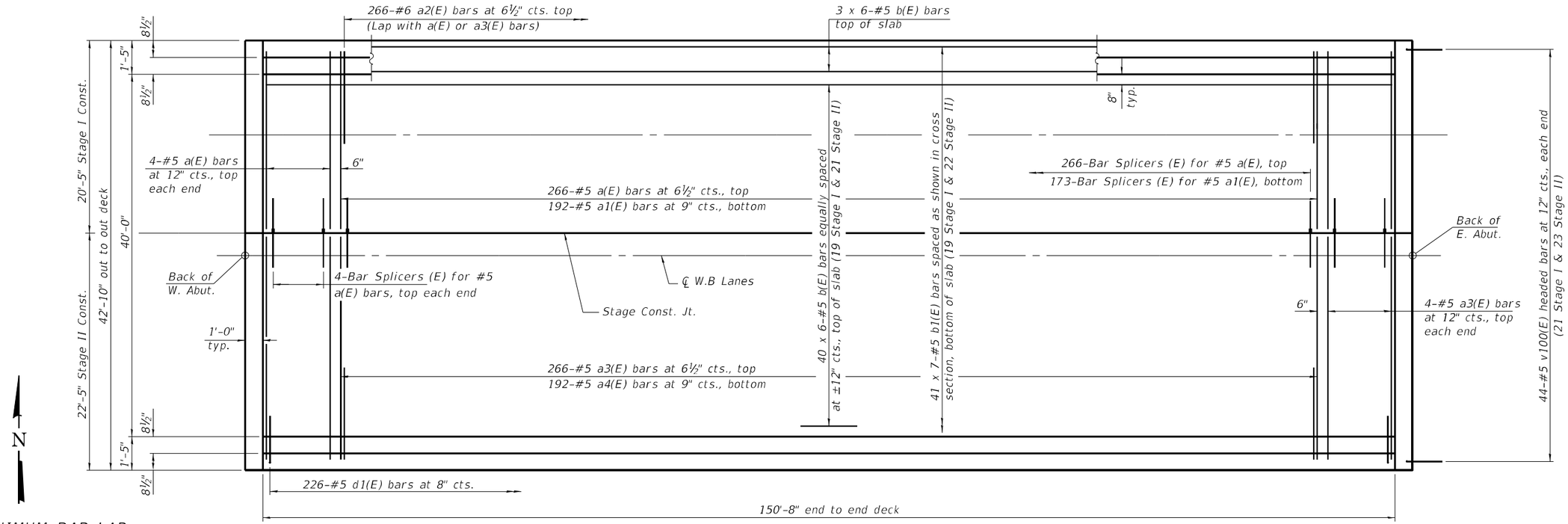


CROSS SECTION

(Looking East)

*Prior to grinding

SI-IL2772N-1-0 6-15-2019

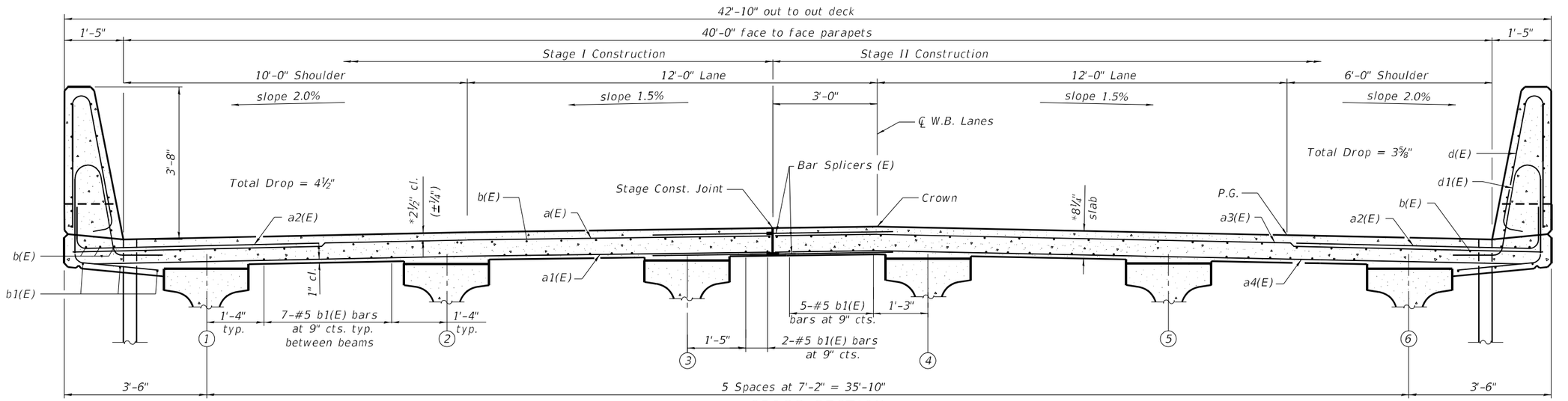


PLAN

MINIMUM BAR LAP

#5 bar = 3'-6"

Notes:
See sheet 18 of 38 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION

(Looking East)

*Prior to grinding

SI-IL2772N-1-0 6-15-2019

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6/14/2023 10:32:23 AM

TWM, INC. WWW.TWM-INC.COM
ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

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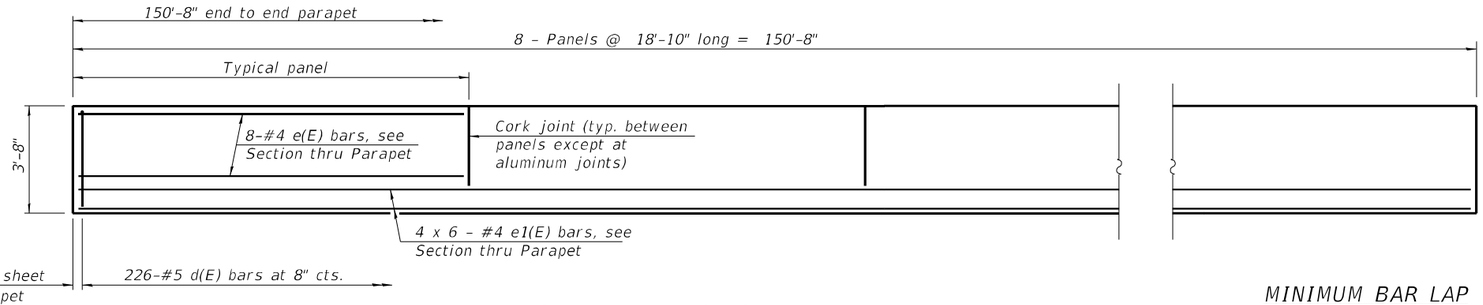
	CHECKED - ALN	REVISED -
PLOT SCALE = 0.166667 ' / In.	DRAWN - CAJ	REVISED -
PLOT DATE = 6/14/2023	CHECKED - ALN	REVISED -

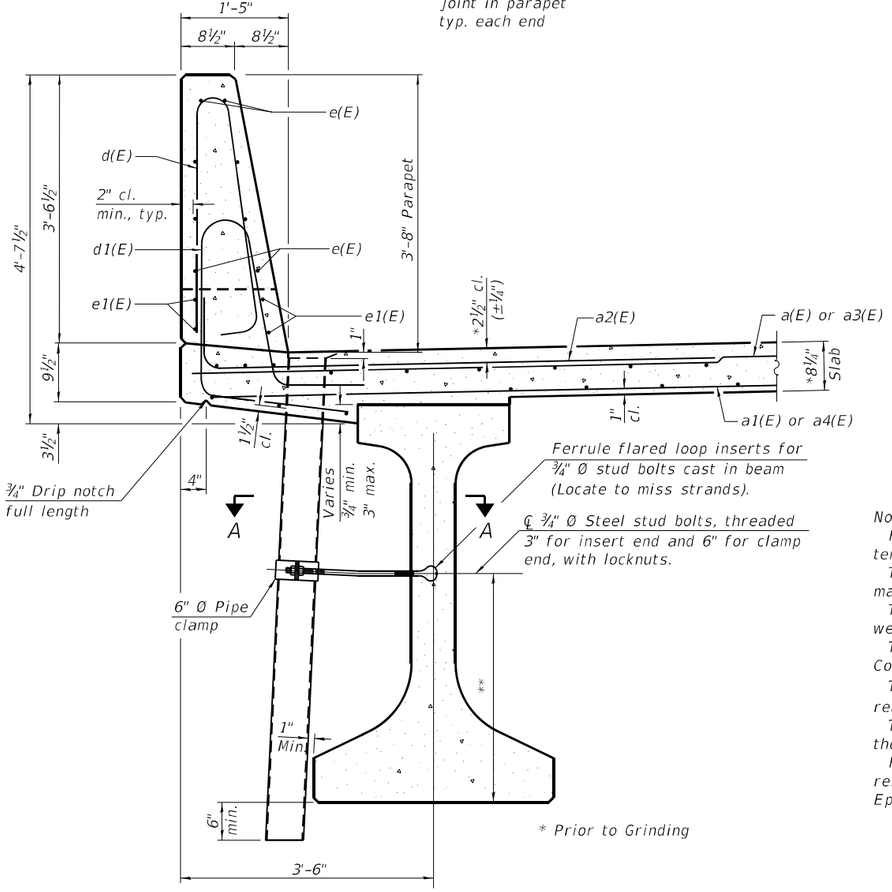
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 092-0209 (W.B.)
SHEET 17 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	90
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



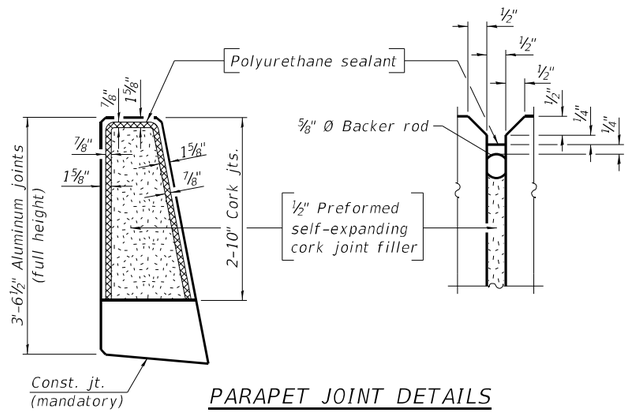
INSIDE ELEVATION OF PARAPET



* Prior to Grinding

SECTION THRU PARAPET

**For insert locations See sheet 25 of 38.



PARAPET JOINT DETAILS

Notes:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.

The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.

The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.

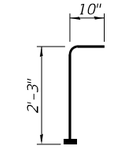
The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

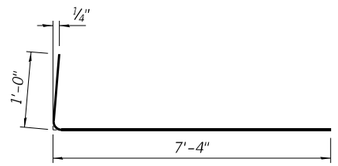
MINIMUM BAR LAP

#4 bar = 2'-5"

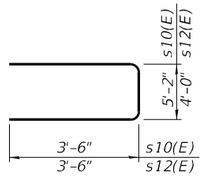


BAR v100(E)

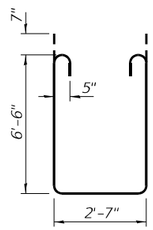
(Headed)



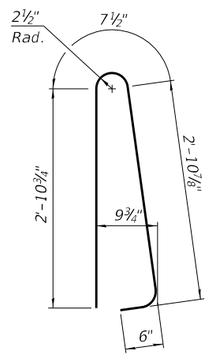
BAR a2(E)



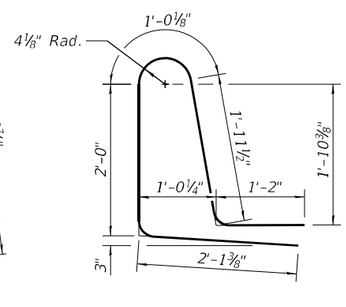
BARS s10(E) & s12(E)



BAR s11(E)



BAR d(E)

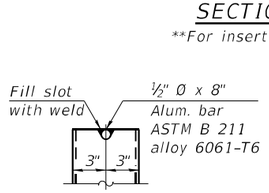


BAR d1(E)

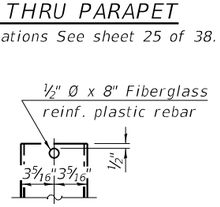
TWO SUPERSTRUCTURES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	548	#5	20'-1"	
a1(E)	384	#5	19'-3"	
a2(E)	1064	#6	8'-4"	
a3(E)	548	#5	22'-1"	
a4(E)	384	#5	21'-3"	
b(E)	552	#5	28'-1"	
b1(E)	574	#5	24'-7"	
d(E)	904	#5	7'-0"	
d1(E)	904	#5	8'-3"	
e(E)	256	#4	18'-6"	
e1(E)	96	#4	27'-1"	
m10(E)	28	#6	22'-1"	
m11(E)	80	#6	5'-10"	
m12(E)	40	#6	2'-8"	
m13(E)	16	#6	3'-8"	
m14(E)	8	#6	1'-7"	
m15(E)	72	#5	4'-0"	
m16(E)	28	#6	20'-1"	
s10(E)	124	#5	12'-2"	
s11(E)	124	#5	16'-9"	
s12(E)	96	#5	11'-0"	
v100(E)	176	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	112,260	
Concrete Superstructure		Cu. Yds.	579.0	

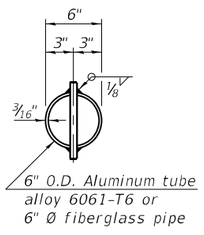
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



ALUMINUM TUBE

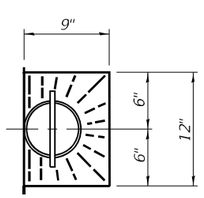


FIBERGLASS PIPE

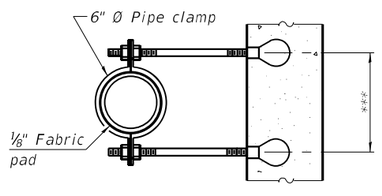


TOP PLAN

(Showing aluminum tube)



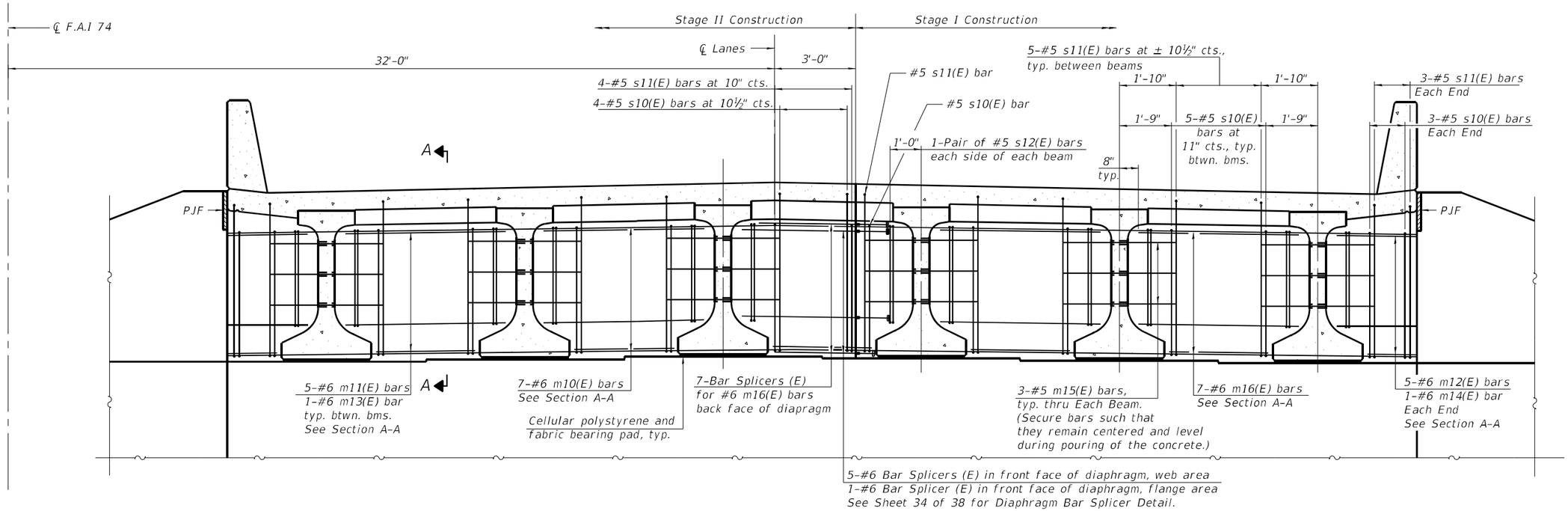
TOP PLAN



SECTION A-A

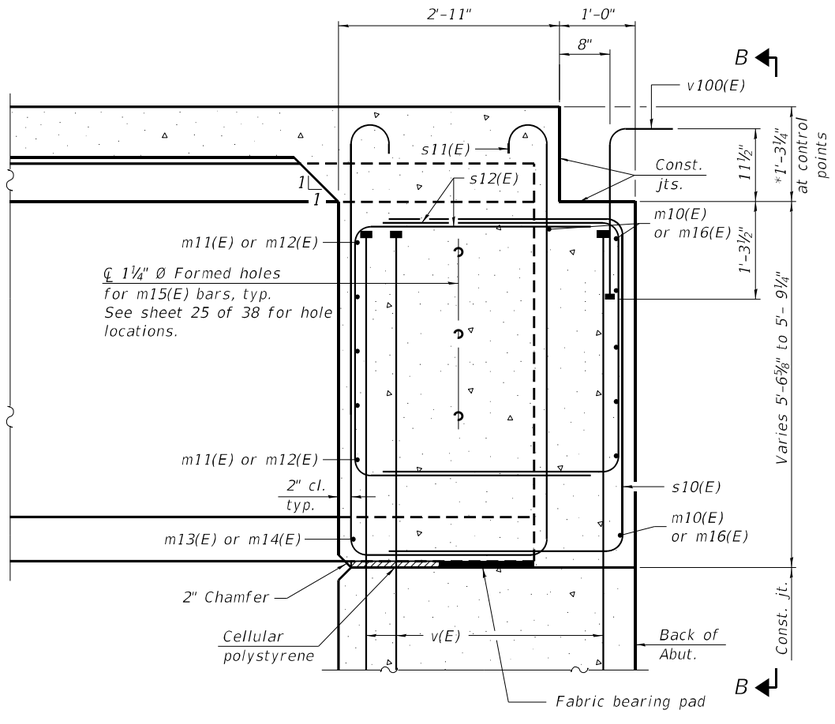
***Dimension as required by pipe clamp

SDI-IL6372N-1 6-15-2019

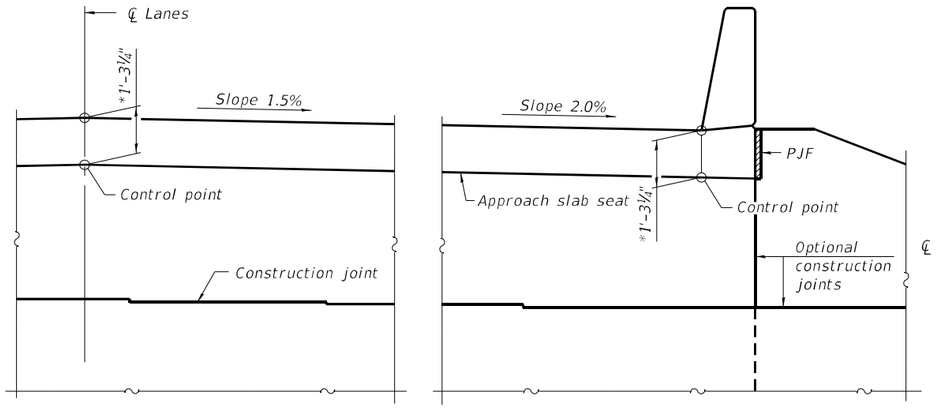


DIAPHRAGM AT ABUTMENT

(Looking East, E.B. Structure, Looking West, W.B. Structure)
(Symmetrical about ℄ F.A.I 74)

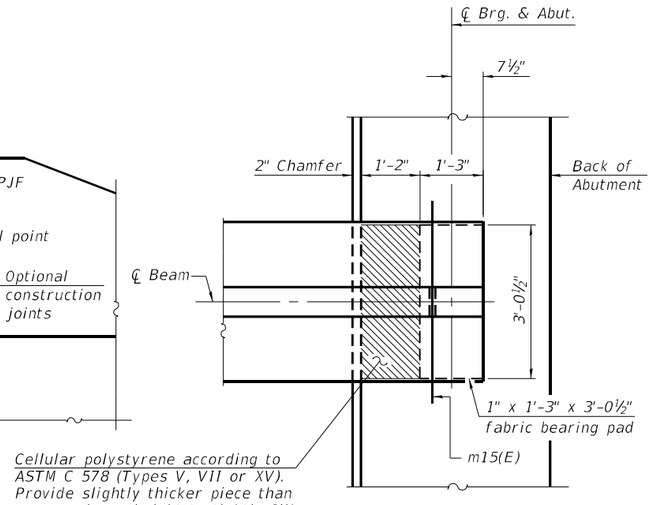


SECTION A-A



VIEW B-B

* Prior to Grinding



Cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between abutment cap and bottom of beam.

PLAN AT ABUTMENT

(Showing bottom flange of beam)

Notes:
See sheet 18 of 38 for superstructure details and Bill of Material.
See sheets 20 & 21 of 38 for PJF details.
The approach slab seat shall have a constant slope determined from the control points shown.
Cost of cellular polystyrene is included with Concrete Superstructure.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 19 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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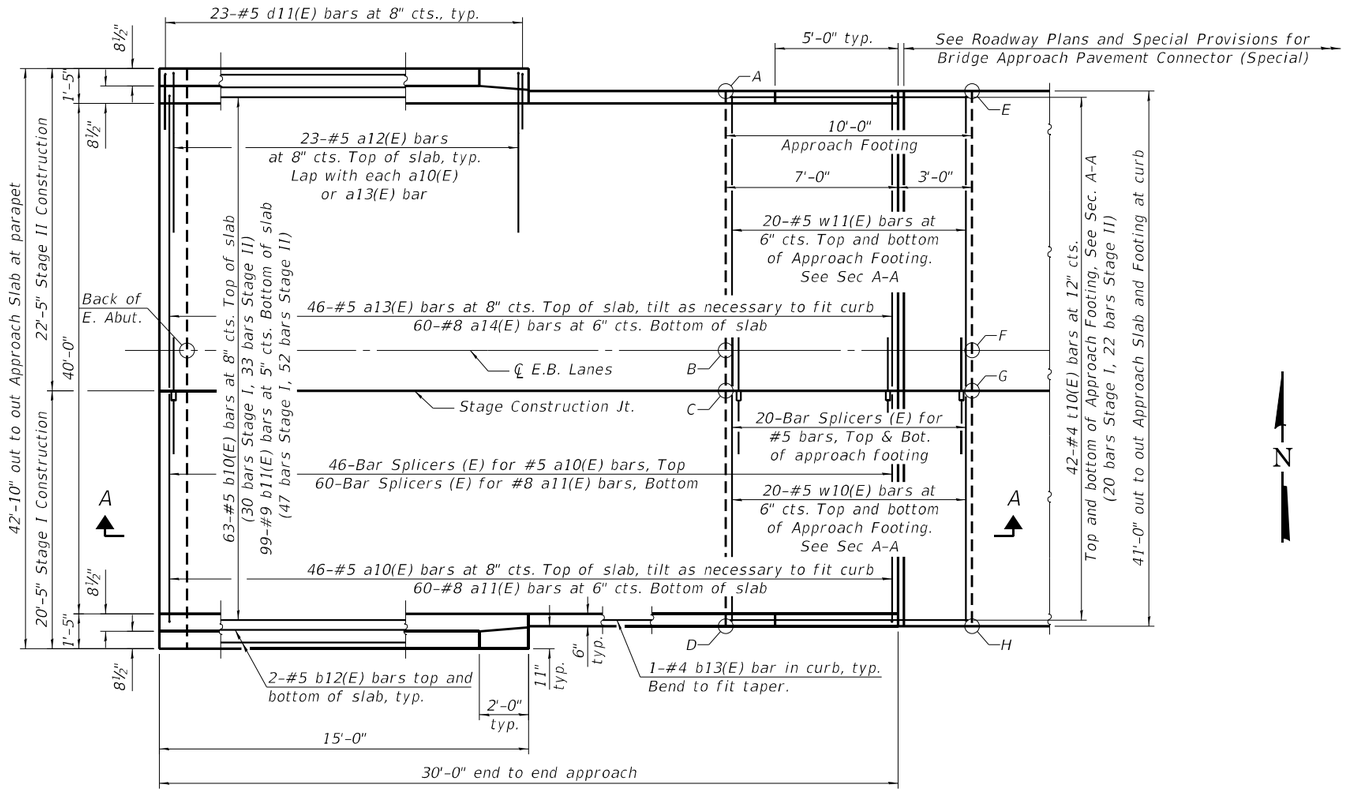
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

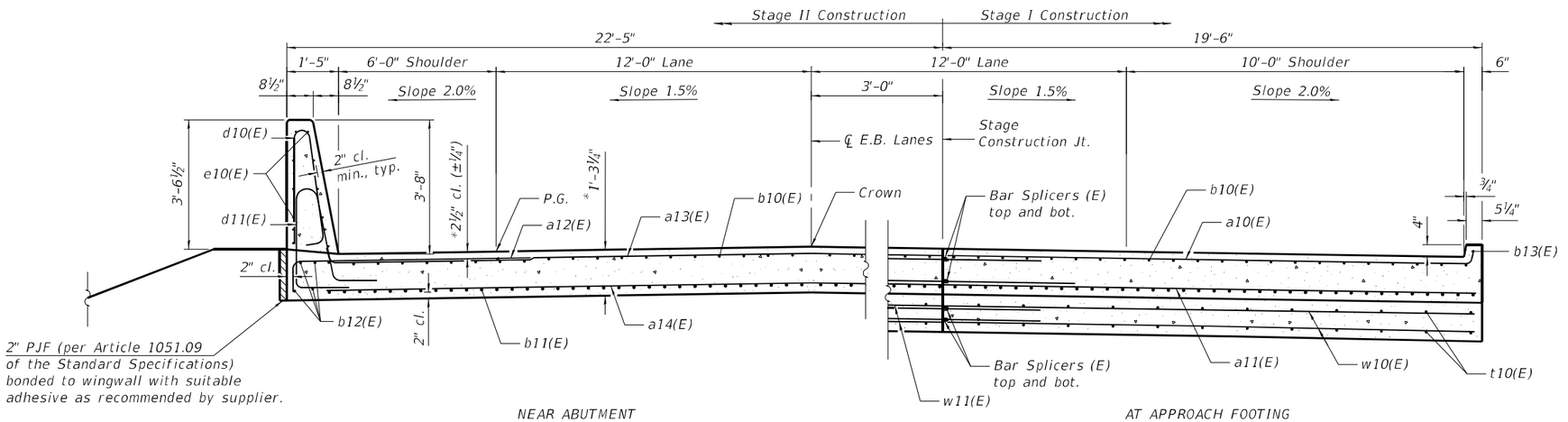


PLAN – EASTBOUND

(East approach slab shown; west approach slab similar by mirror image)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

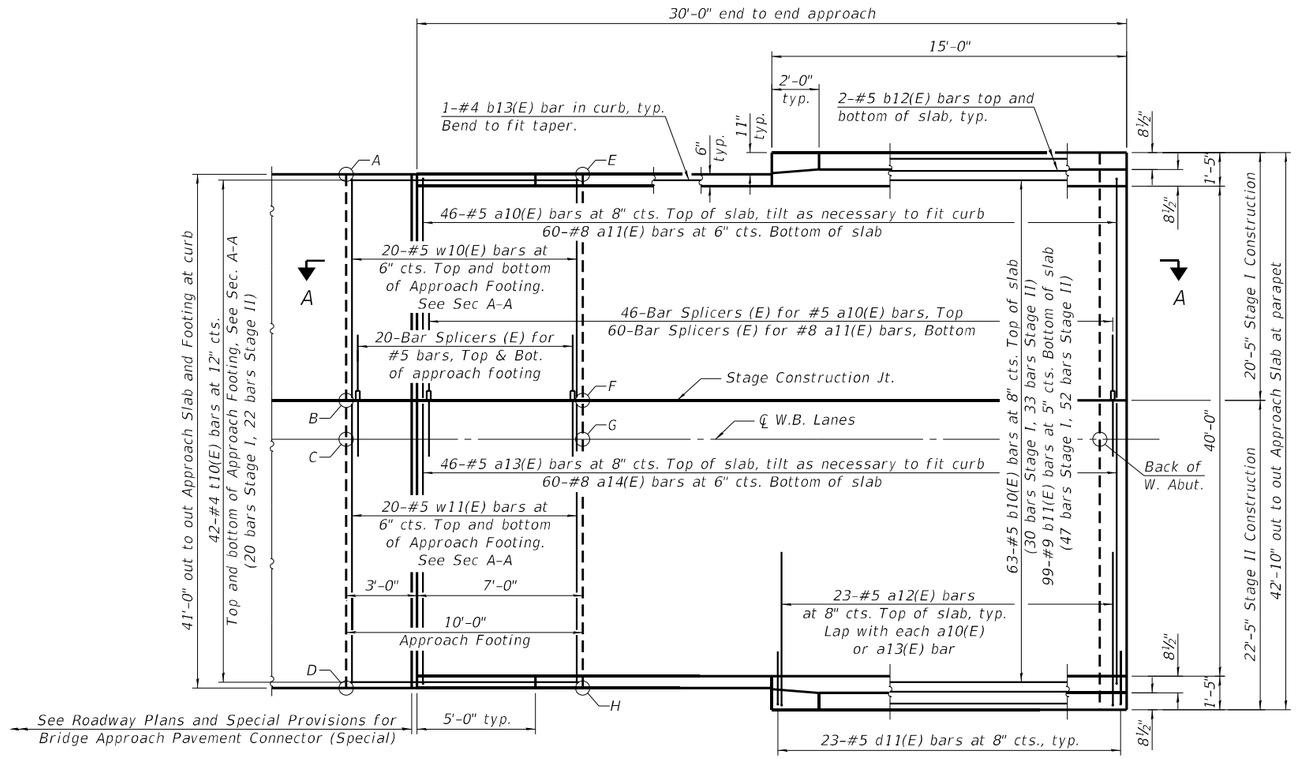
West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A – NE	580.04	579.21	A – NW	579.64	578.81
B – E	580.35	579.52	B – W	579.95	579.12
C – E	580.30	579.47	C – W	579.91	579.08
D – SE	579.96	579.13	D – SW	579.56	578.73
E – NW	580.06	579.23	E – NE	579.62	578.79
F – W	580.37	579.54	F – E	579.93	579.10
G – W	580.32	579.49	G – E	579.89	579.06
H – SW	579.98	579.15	H – SE	579.54	578.71



CROSS SECTION – EASTBOUND

(Looking East)
**Prior to grinding*

Notes:
For Section A-A and Bill of Material, see sheet 22 of 38.

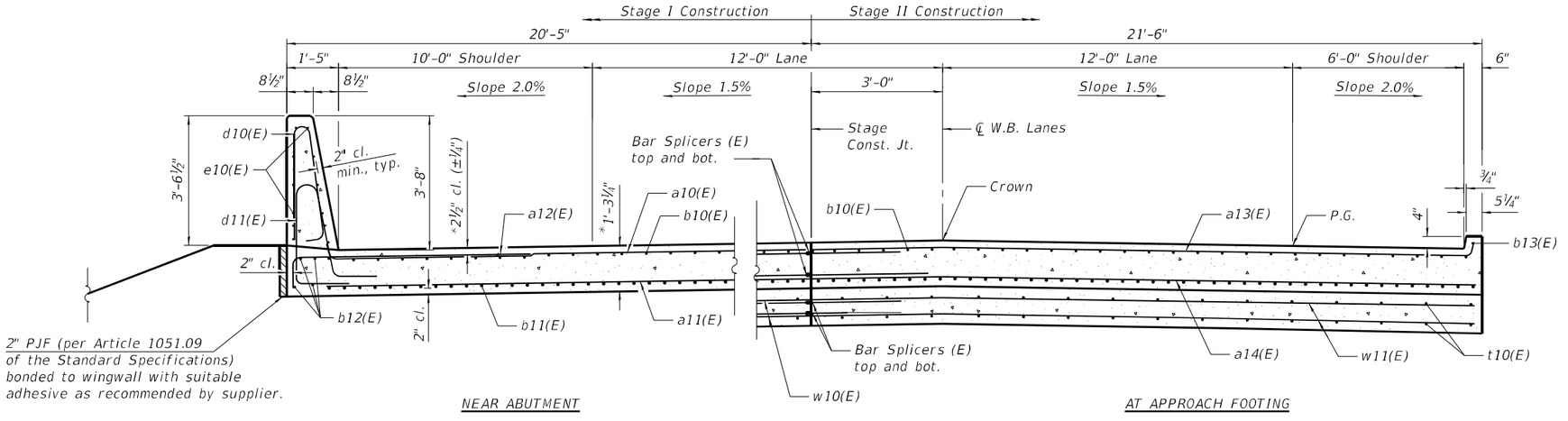


PLAN - WESTBOUND

(West approach slab shown; east approach slab similar by mirror image)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A - NW	579.98	579.15	A - NE	579.54	578.71
B - W	580.32	579.49	B - E	579.89	579.06
C - W	580.37	579.54	C - E	579.93	579.10
D - SW	580.06	579.23	D - SE	579.62	578.79
E - NE	579.96	579.13	E - NW	579.56	578.73
F - E	580.30	579.47	F - W	579.91	579.08
G - E	580.35	579.52	G - W	579.95	579.12
H - SE	580.04	579.21	H - SW	579.64	578.81



CROSS SECTION - WESTBOUND

(Looking East)
*Prior to grinding

Notes:
For Section A-A and Bill of Material, see sheet 22 of 38.

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ENGINEERING & GEOSPATIAL SERVICES
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 092-0209 (W.B.)
SHEET 21 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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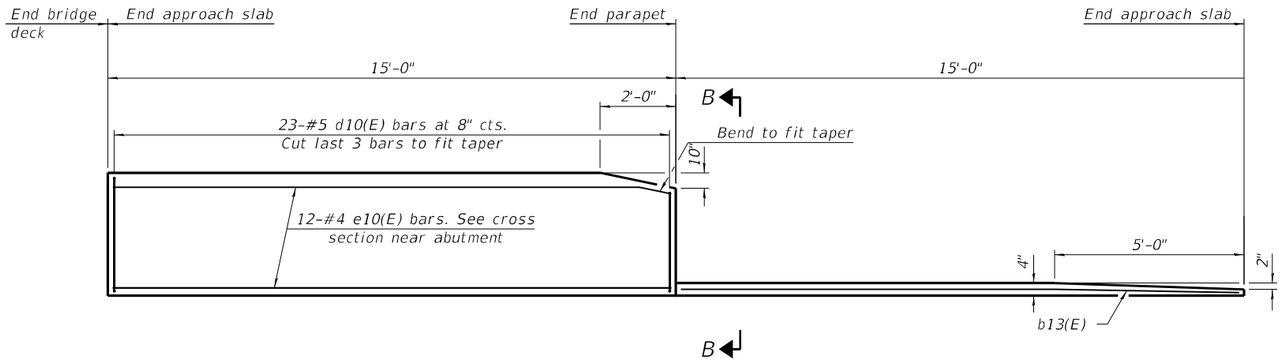
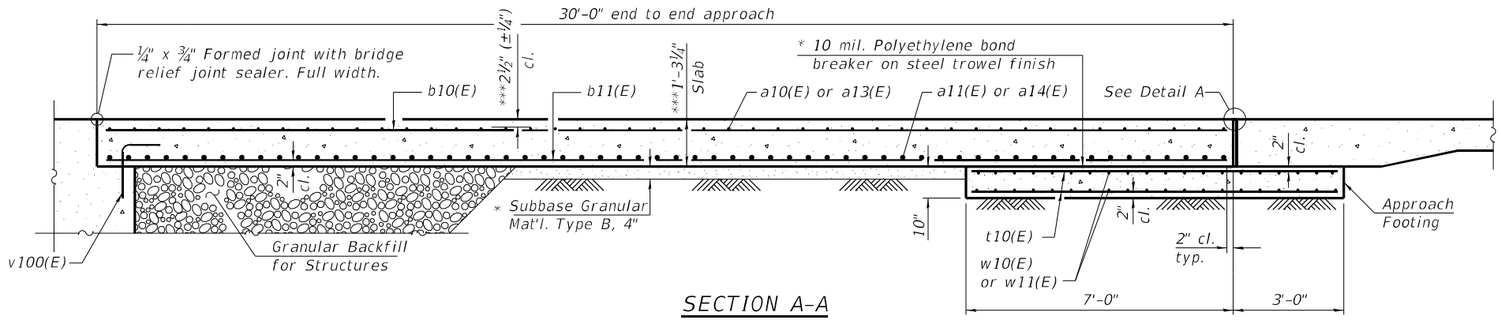
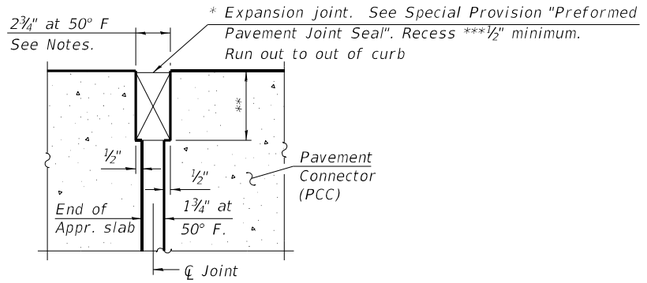
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A

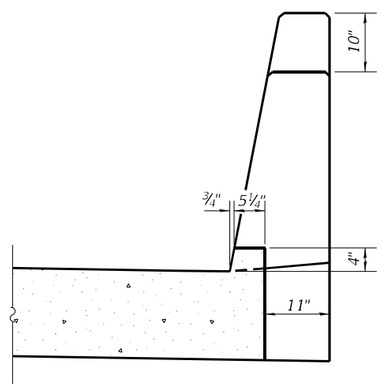


DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

*** Prior to grinding



VIEW B-B

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

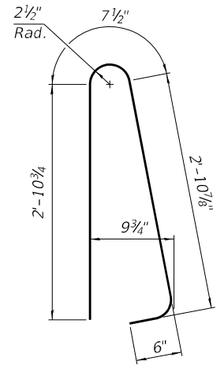
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

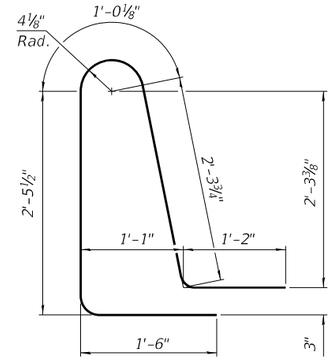
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

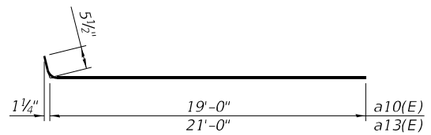
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 38.



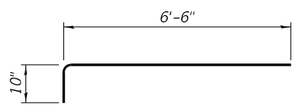
BAR d10(E)



BAR d11(E)



BAR a10(E) & BAR a13(E)



BAR a12(E)

FOUR APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	184	#5	19'-6"	
a11(E)	240	#8	19'-2"	
a12(E)	184	#5	7'-4"	
a13(E)	184	#5	21'-6"	
a14(E)	240	#8	21'-2"	
b10(E)	252	#5	29'-8"	
b11(E)	396	#9	29'-8"	
b12(E)	32	#5	14'-8"	
b13(E)	8	#4	14'-8"	
d10(E)	184	#5	7'-0"	
d11(E)	184	#5	8'-6"	
e10(E)	96	#4	14'-8"	
t10(E)	336	#4	9'-8"	
w10(E)	160	#5	19'-2"	
w11(E)	160	#5	21'-2"	
Concrete Superstructure		Cu. Yd.	17.0	
Concrete Superstructure (Approach Slab)		Cu. Yd.	237.4	
Concrete Structures		Cu. Yd.	50.8	
Reinforcement Bars, Epoxy Coated		Pound	96,240	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 22 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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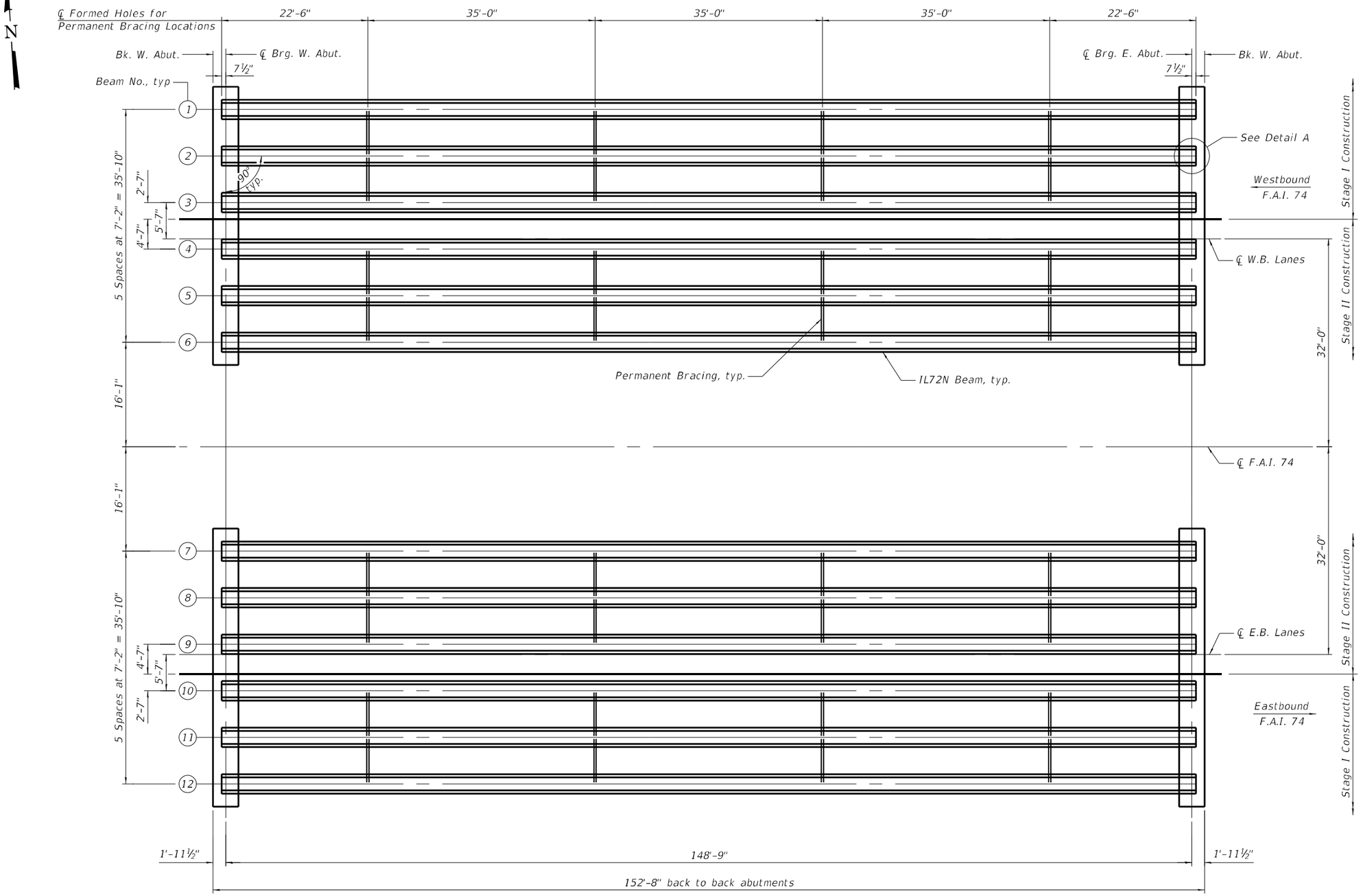
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



FRAMING PLAN

Note:
See Sheet 24 of 38 for Permanent Bracing Details, Detail A, Interior Beam Moment Table and Beam Reaction Table.

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FRAMING PLAN
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 23 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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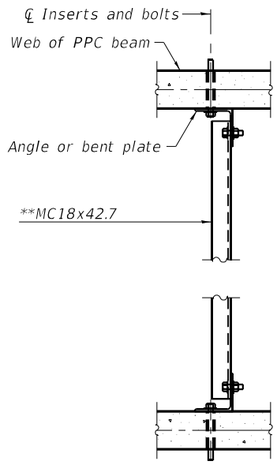
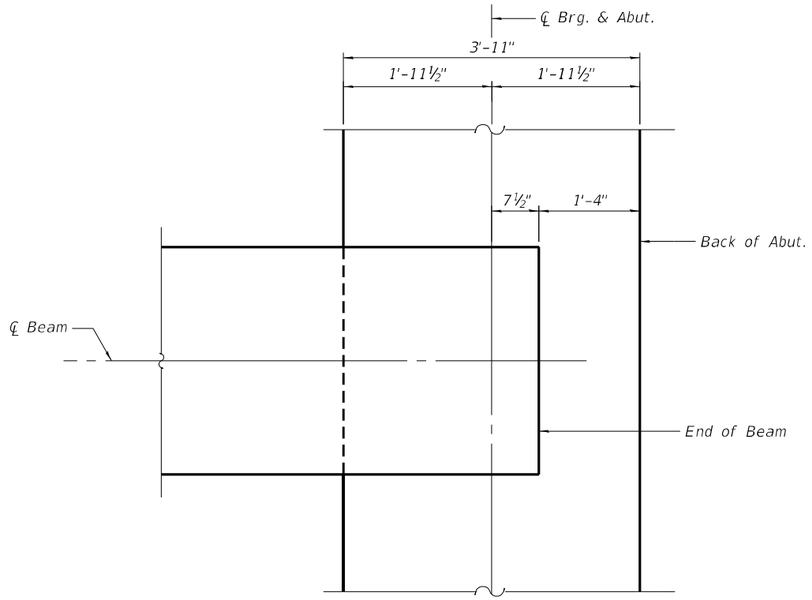
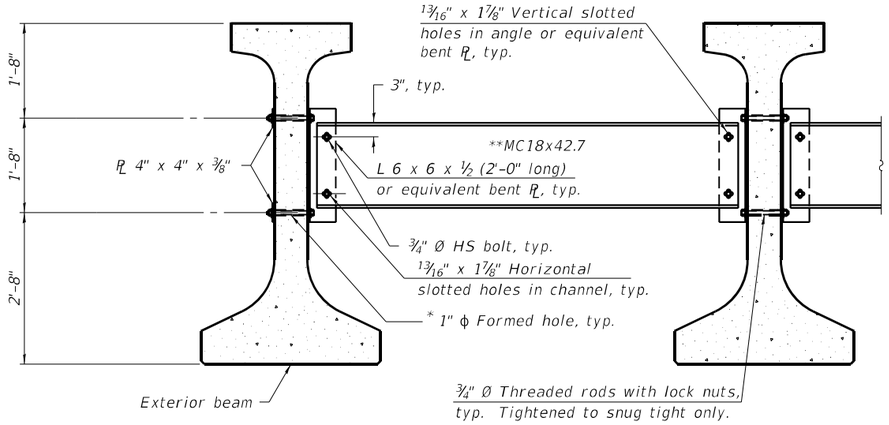


PLAN



DETAIL A



Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.

Two hardened washers are required for each set of oversized holes.

All holes shall be 15/16" Ø unless otherwise noted.

5/16" x 3" x 3" plate washers are required over all slotted holes.

All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

* Fabricator shall locate to miss strands within permissible tolerances.

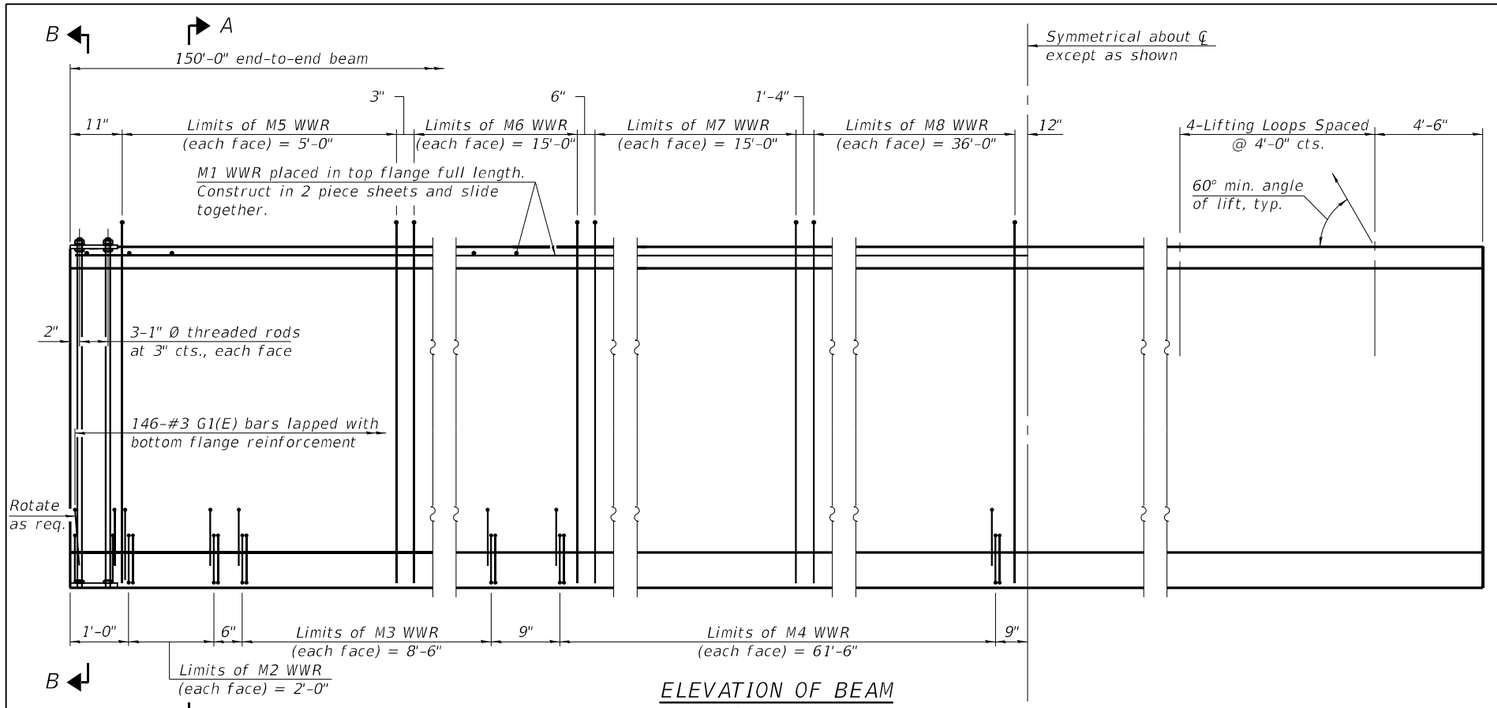
** Alternate MC18x45.8 channels are permitted to facilitate material acquisition.

PERMANENT BRACING DETAILS

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in^4)	624,180
I'	(in^4)	1,354,800
Sb	(in^3)	21,238
Sb'	(in^3)	29,890
St	(in^3)	14,649
St'	(in^3)	50,790
DC1	(k/')	1.835
MDC1	('k)	5,075.3
DC2	(k/')	0.190
MDC2	('k)	525.1
DW	(k/')	0.33
MDW	('k)	921.0
$M^{}_{L+IM}$	('k)	3000.0

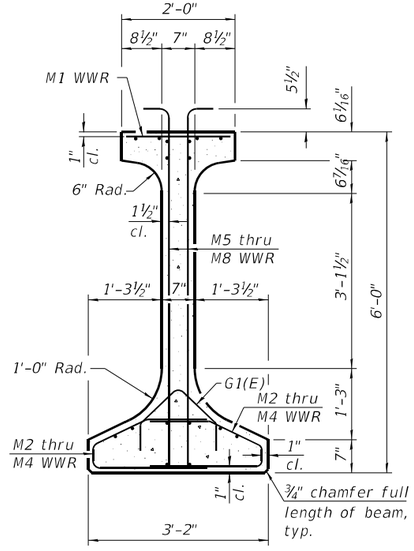
INTERIOR BEAM REACTION TABLE		
		East & West Abut.
RDC1	(k)	137.2
RDC2	(k)	14.3
RDW	(k)	24.8
$R^{}_{L+IM}$	(k)	103.7
RTotal	(k)	280.0

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
Sb: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
Sb': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
St: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
St': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
$M^{}_{L+IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

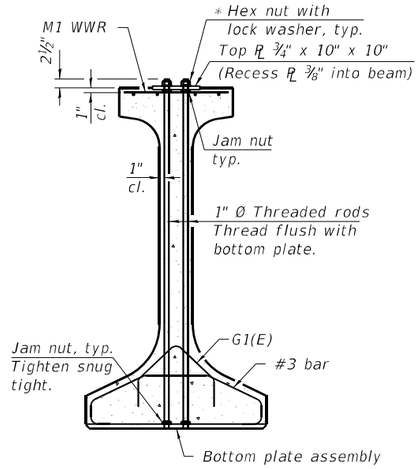


ELEVATION OF BEAM

(Showing reinforcement & dimensions)

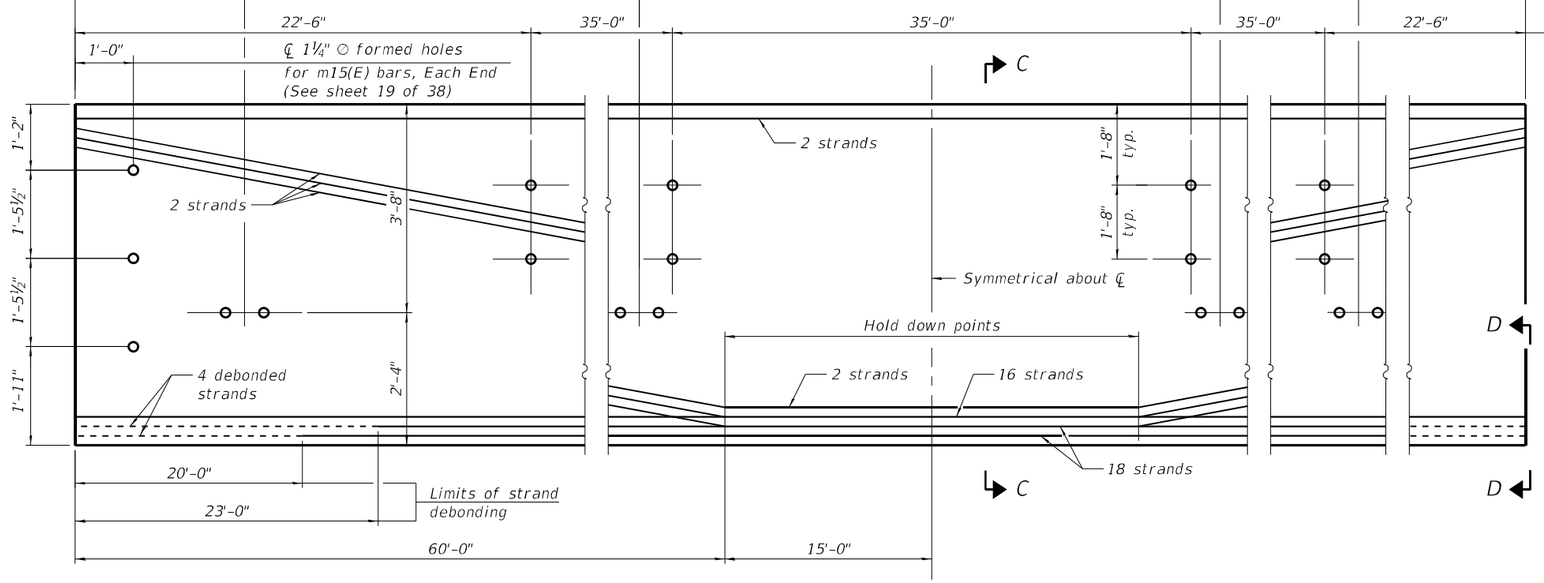


SECTION A-A



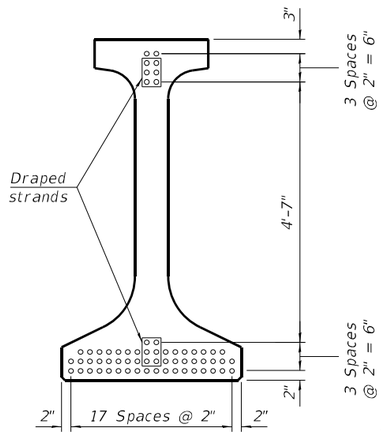
SECTION B-B

*Only tighten sufficiently to compress lock washers



ELEVATION OF BEAM

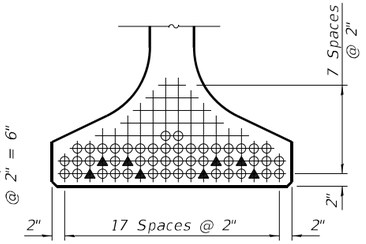
(Showing prestressing steel)



SECTION C-C

(56-0.6" Ø 270 ksi strands)

(Strand Pattern: 54B-2T-8db-6d)

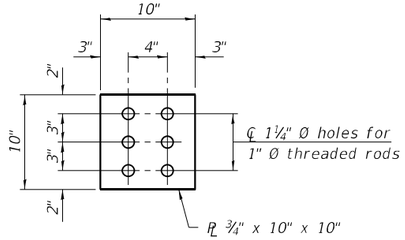


VIEW D-D

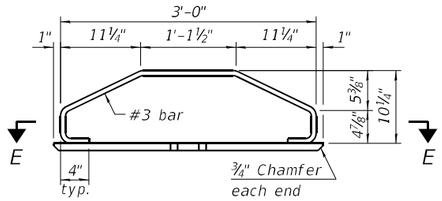
○ Fully bonded strand

▲ Partially debonded strand

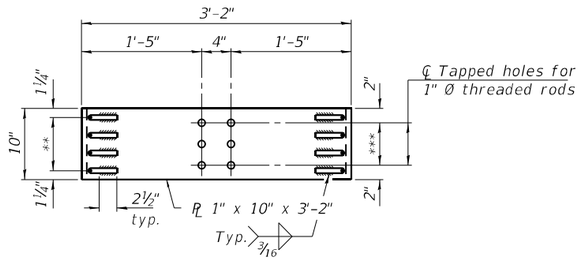
Note:
See sheet 26 of 38 for additional details and Bill of Material.



PLAN - TOP PLATE



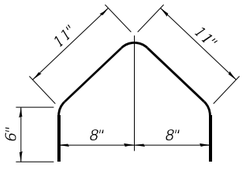
ELEVATION - BOTTOM PLATE ASSEMBLY



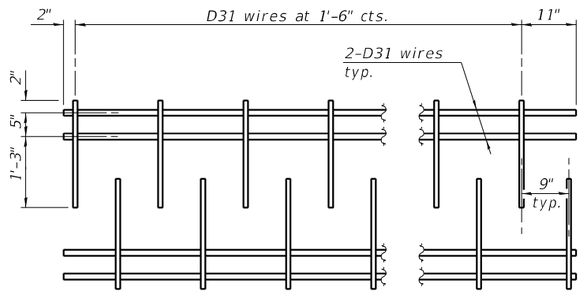
SECTION E-E

** 3 Spaces at 2½" = 7½"

*** 2 Spaces at 3" = 6"

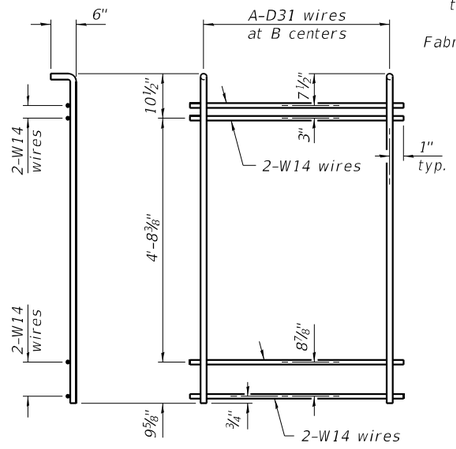


BAR G1(E)



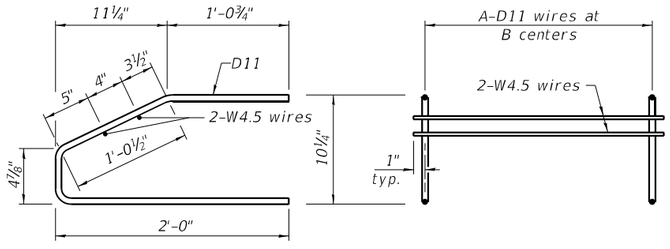
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M5 THRU M8 WWR DETAIL

(See Table of Dimensions)



M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

NOTES

Inserts for ¾" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be ½" and the nominal cross sectional area shall be 0.153 sq. in.

The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi.

A minimum 2½" Ø lifting pin shall be used to engage the lifting loops during handling.

The top and bottom plates shall be AASHTO M270 Grade 50.

The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

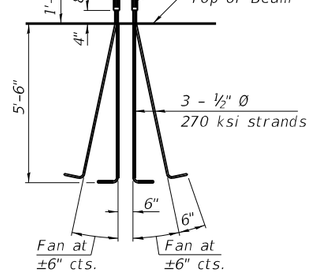
Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.

TABLE OF DIMENSIONS

(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

SPAN 1

WWR	A	B
M2	9	3"
M3	18	6"
M4	42	1'-6"
M5	21	3"
M6	31	6"
M7	16	1'-0"
M8	19	2'-0"



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL72N	Ft.	1800

MODEL: Default
FILE NAME: P:\2020\200840\4 CADD - DWG\4.4 Struct\092-0208\0209\I\092020809-70860-026-IL72N Beam Details.dgn
4/25/2023 11:33:29 AM

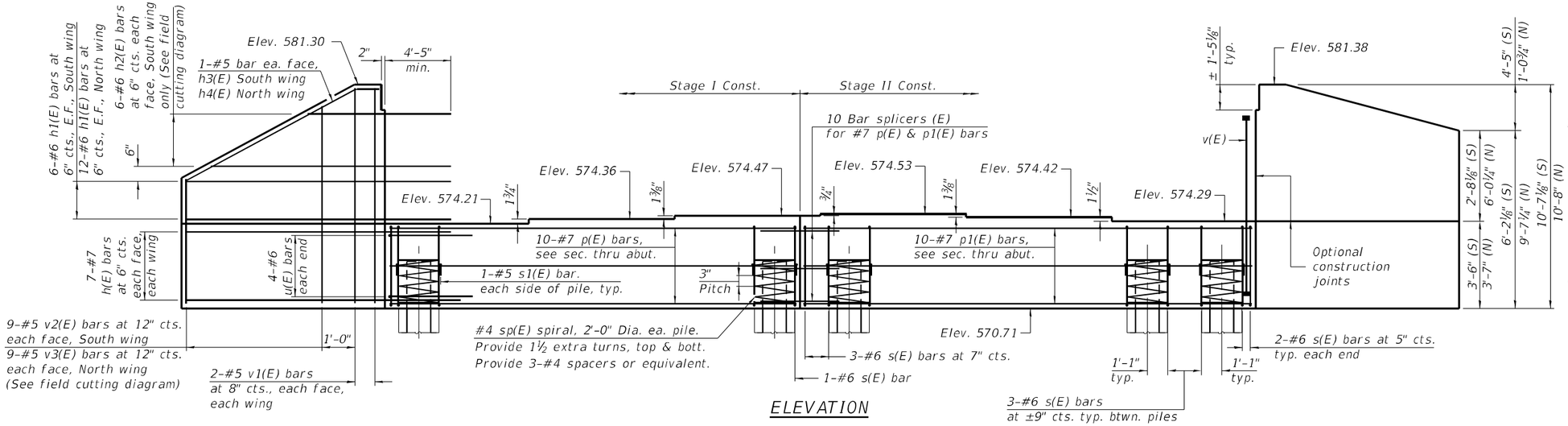
TWM ENGINEERING & GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bpolter		DESIGNED - MAL		REVISED -	
		CHECKED - BWP		REVISED -	
PLOT SCALE = 0.166667 ' / in.		DRAWN - MAL		REVISED -	
PLOT DATE = 4/25/2023		CHECKED - BWP		REVISED -	

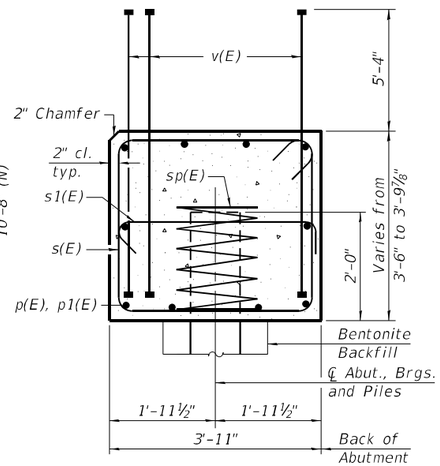
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL72N BEAM DETAILS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 26 OF 38 SHEETS

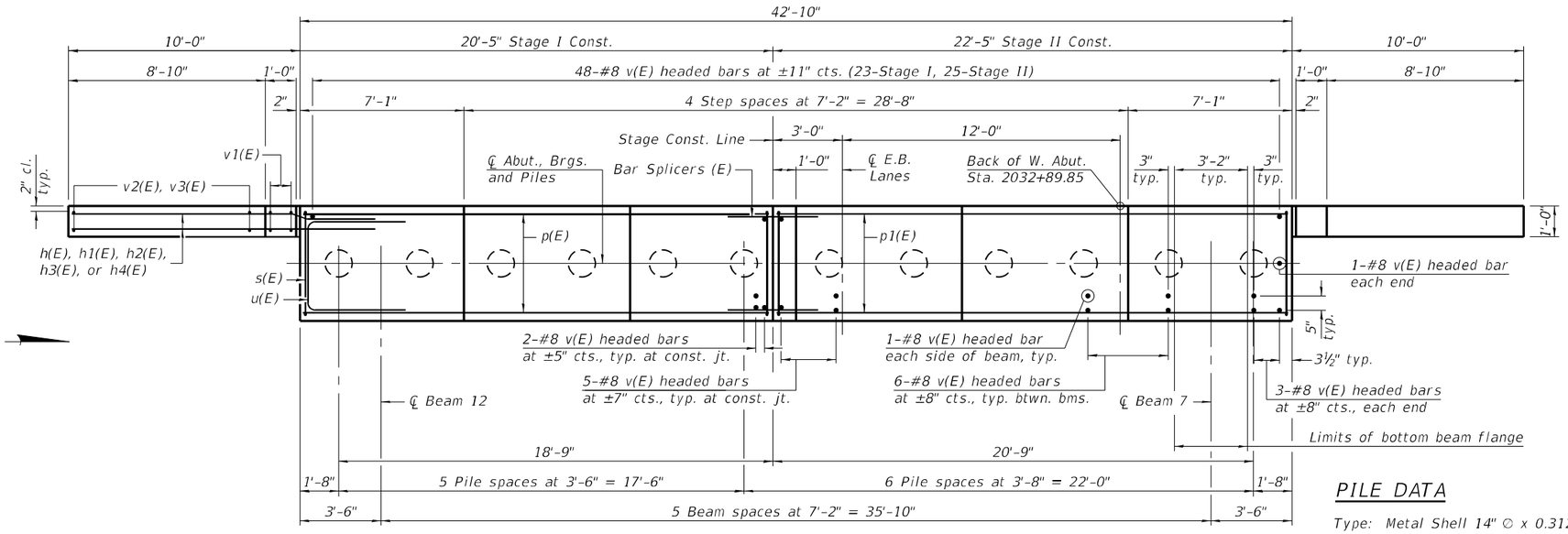
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	99
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



ELEVATION



SEC. THRU ABUT.



PLAN

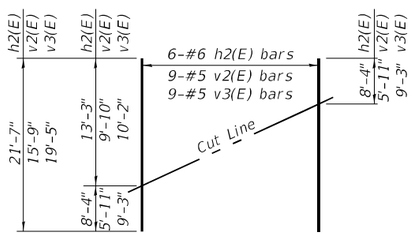
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#7	14'-3"	
h1(E)	36	#6	14'-3"	
h2(E)	6	#6	21'-7"	
h3(E)	2	#5	10'-6"	
h4(E)	2	#5	9'-7"	
p(E)	10	#7	20'-1"	
p1(E)	10	#7	22'-1"	
s(E)	38	#6	14'-10"	
s1(E)	24	#5	4'-7"	
sp(E) *	12	#4	2'-0"	
u(E)	8	#6	12'-1"	
v(E)	99	#8	8'-5"	
v1(E)	8	#5	10'-4"	
v2(E)	9	#5	15'-9"	
v3(E)	9	#5	19'-5"	
Structure Excavation	Cu. Yd.		98	
Concrete Structures	Cu. Yd.		29.8	
Reinforcement Bars, Epoxy Coated	Pound		6,990	
Bar Splicers	Each		10	
Furnishing Metal Shell Piles 14"x0.312"	Foot		539	
Driving Piles	Foot		539	
Test Pile Metal Shells	Each		1	
Pile Shoes	Each		12	

* Length is height of spiral.

PILE DATA

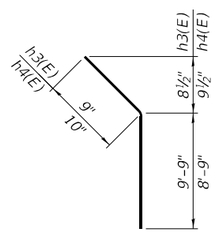
Type: Metal Shell 14" ∅ x 0.312" w/pile shoes
Nominal Required Bearing: 565 kips
Factored Resistance Available: 311 kips
Est. Length: 49 ft.
No. Production Piles: 11
No. Test Piles: 1



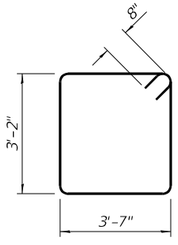
FIELD CUTTING DIAGRAM

Order h2(E), v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

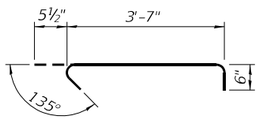
BAR v(E)
(Headed)



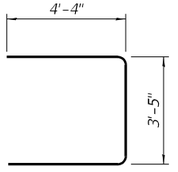
BAR h3(E) & h4(E)



BAR s(E)



BAR s1(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles, see sheet 33 of 38.
For details of bar splicers, see sheet 34 of 38.
Piles shall be driven through 24" diameter precored holes extending to Elev. 560.71 according to article 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - TAW	REVISED -	
	CHECKED - TJZ	REVISED -	
PLOT SCALE =	DRAWN - DCS	REVISED -	
PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 092-0208 (E.B.)
SHEET 27 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	100
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

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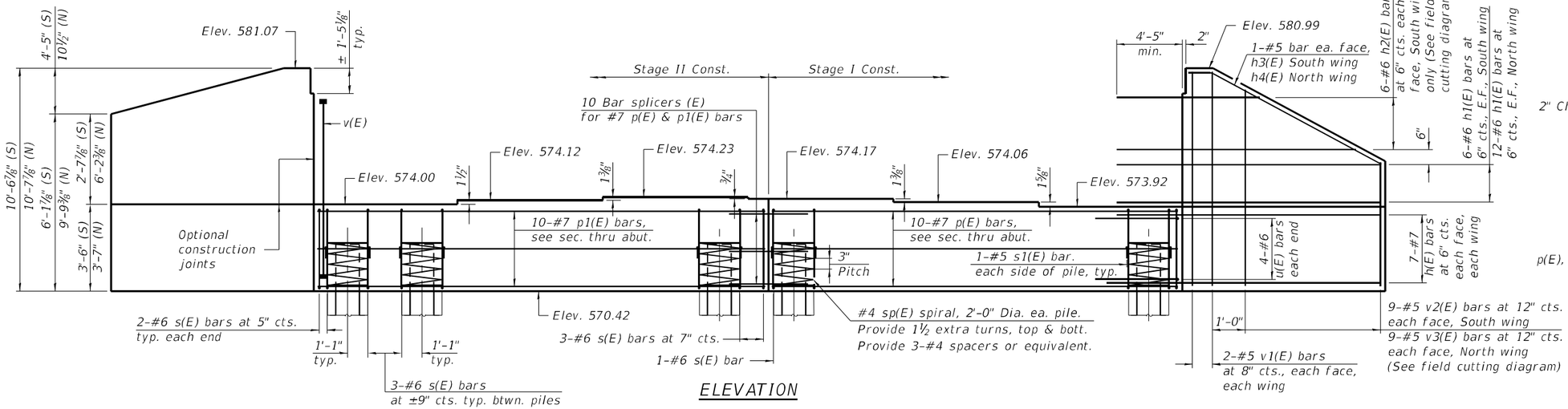
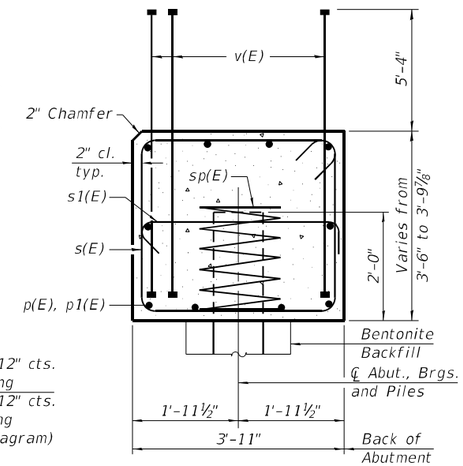
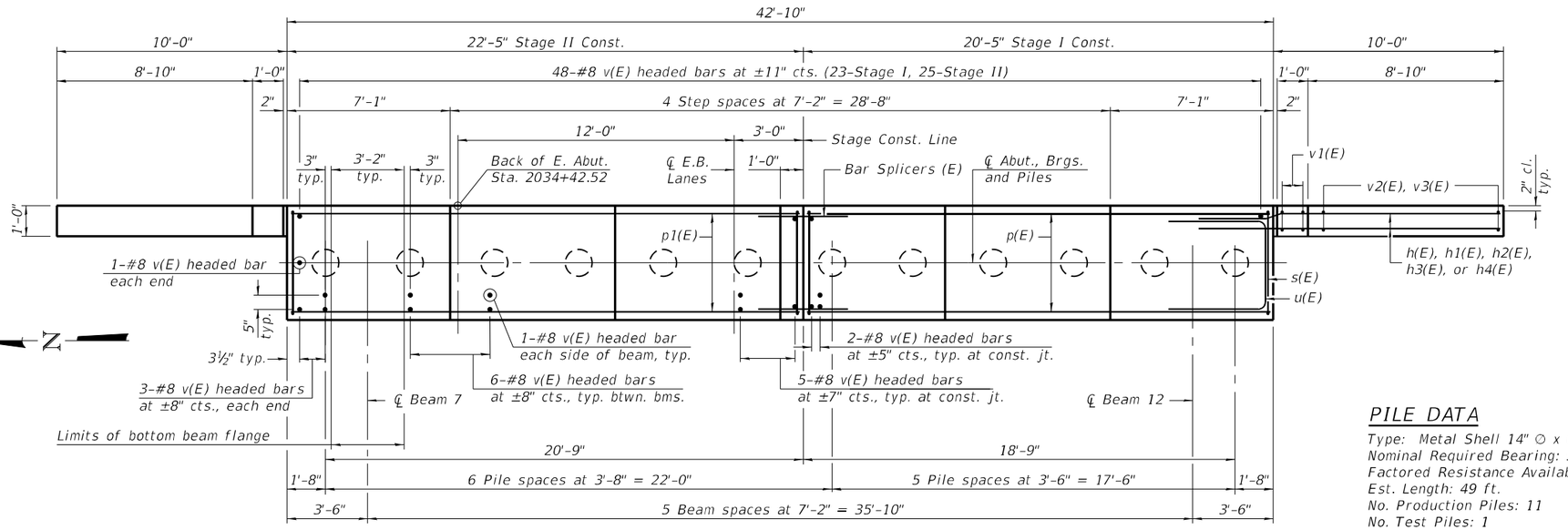


ELEVATION



SEC. THRU ABUT.



PLAN

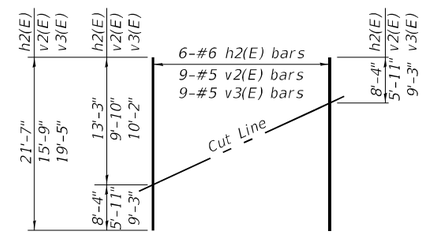
PILE DATA

Type: Metal Shell 14" ∅ x 0.312" w/pile shoes
Nominal Required Bearing: 565 kips
Factored Resistance Available: 311 kips
Est. Length: 49 ft.
No. Production Piles: 11
No. Test Piles: 1

BILL OF MATERIAL

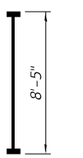
Bar	No.	Size	Length	Shape
h(E)	28	#7	14'-3"	
h1(E)	36	#6	14'-3"	
h2(E)	6	#6	21'-7"	
h3(E)	2	#5	10'-6"	
h4(E)	2	#5	9'-7"	
p(E)	10	#7	20'-1"	
p1(E)	10	#7	22'-1"	
s(E)	38	#6	14'-10"	
s1(E)	24	#5	4'-7"	
* sp(E)	12	#4	2'-0"	
u(E)	8	#6	12'-1"	
v(E)	99	#8	8'-5"	
v1(E)	8	#5	10'-4"	
v2(E)	9	#5	15'-9"	
v3(E)	9	#5	19'-5"	
Structure Excavation		Cu. Yd.	92	
Concrete Structures		Cu. Yd.	29.8	
Reinforcement Bars, Epoxy Coated		Pound	6,990	
Bar Splicers		Each	10	
Furnishing Metal Shell Piles 14"x0.312"		Foot	539	
Driving Piles		Foot	539	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	12	

* Length is height of spiral.

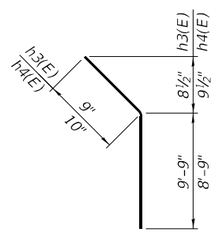


FIELD CUTTING DIAGRAM

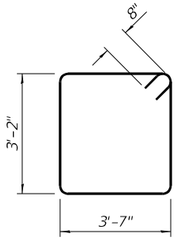
Order h2(E), v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



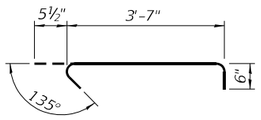
BAR v(E)
(Headed)



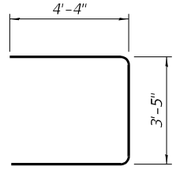
BAR h3(E) & h4(E)



BAR s(E)



BAR s1(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles, see sheet 33 of 38.
For details of bar splicers, see sheet 34 of 38.
Piles shall be driven through 24" diameter precored holes extending to Elev. 560.42 according to article 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.

CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =
PLOT SCALE =
PLOT DATE =

DESIGNED - TAW
CHECKED - TJZ
DRAWN - DCS
CHECKED - TJZ

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 092-0208 (E.B.)

SHEET 28 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	101
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

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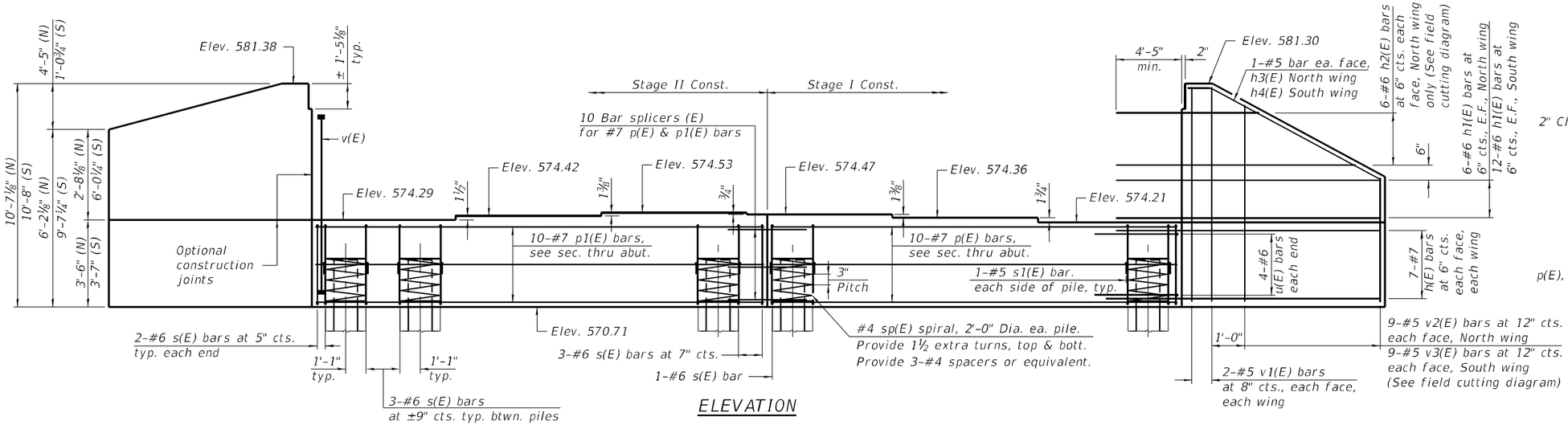

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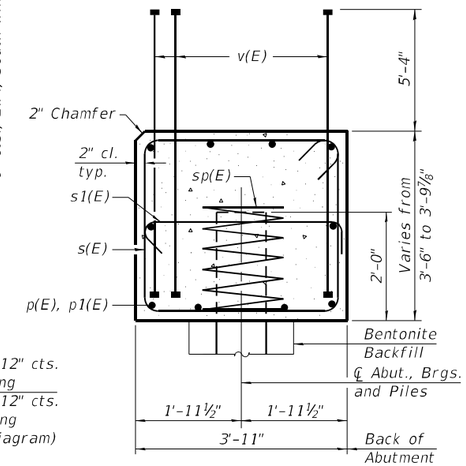
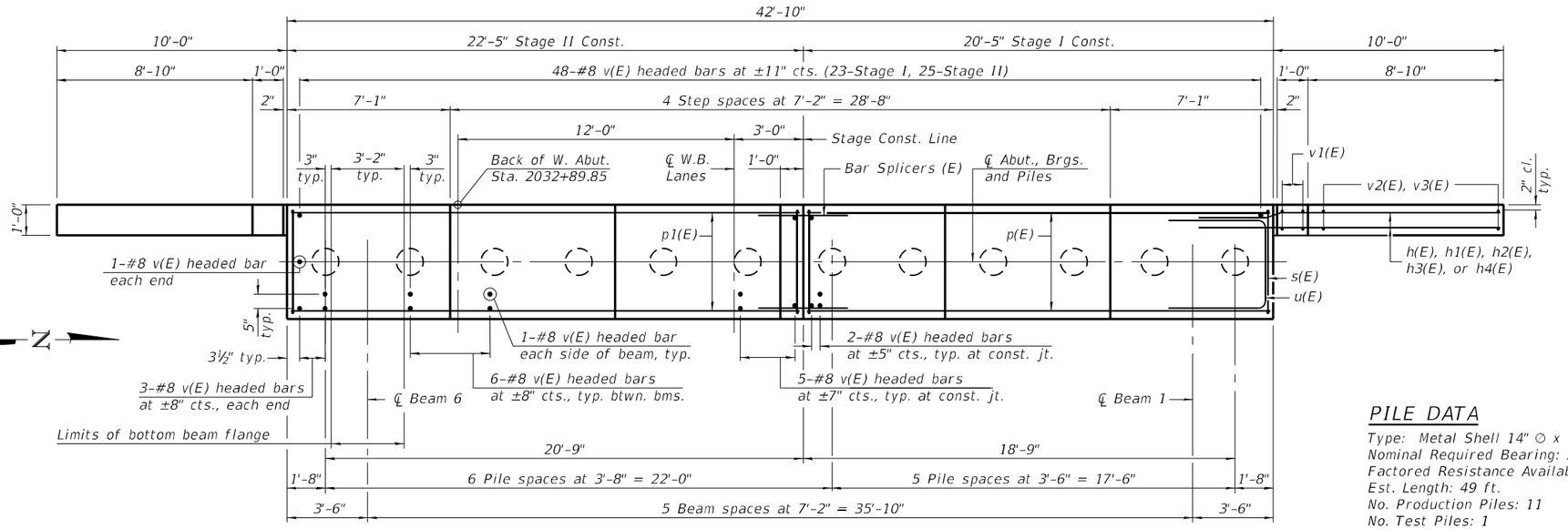


SEC. THRU ABUT.



PLAN

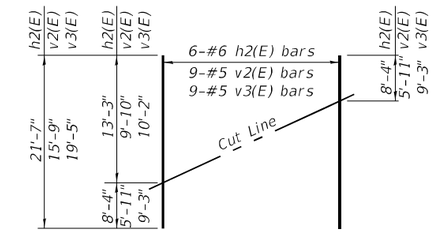
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#7	14'-3"	
h1(E)	36	#6	14'-3"	
h2(E)	6	#6	21'-7"	
h3(E)	2	#5	10'-6"	
h4(E)	2	#5	9'-7"	
p(E)	10	#7	20'-1"	
p1(E)	10	#7	22'-1"	
s(E)	38	#6	14'-10"	
s1(E)	24	#5	4'-7"	
* sp(E)	12	#4	2'-0"	
u(E)	8	#6	12'-1"	
v(E)	99	#8	8'-5"	
v1(E)	8	#5	10'-4"	
v2(E)	9	#5	15'-9"	
v3(E)	9	#5	19'-5"	
Structure Excavation		Cu. Yd.	98	
Concrete Structures		Cu. Yd.	29.8	
Reinforcement Bars, Epoxy Coated		Pound	6,990	
Bar Splicers		Each	10	
Furnishing Metal Shell Piles 14"x0.312"		Foot	539	
Driving Piles		Foot	539	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	12	

* Length is height of spiral.

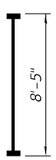
PILE DATA

Type: Metal Shell 14" ∅ x 0.312" w/pile shoes
Nominal Required Bearing: 565 kips
Factored Resistance Available: 311 kips
Est. Length: 49 ft.
No. Production Piles: 11
No. Test Piles: 1

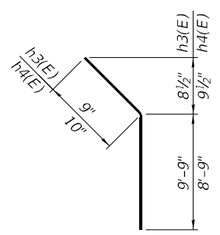


FIELD CUTTING DIAGRAM

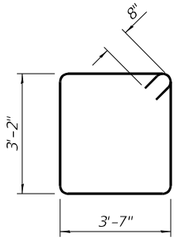
Order h2(E), v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



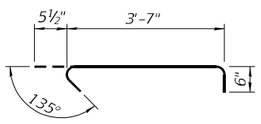
BAR v(E)
(Headed)



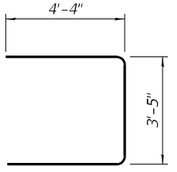
BAR h3(E) & h4(E)



BAR s(E)

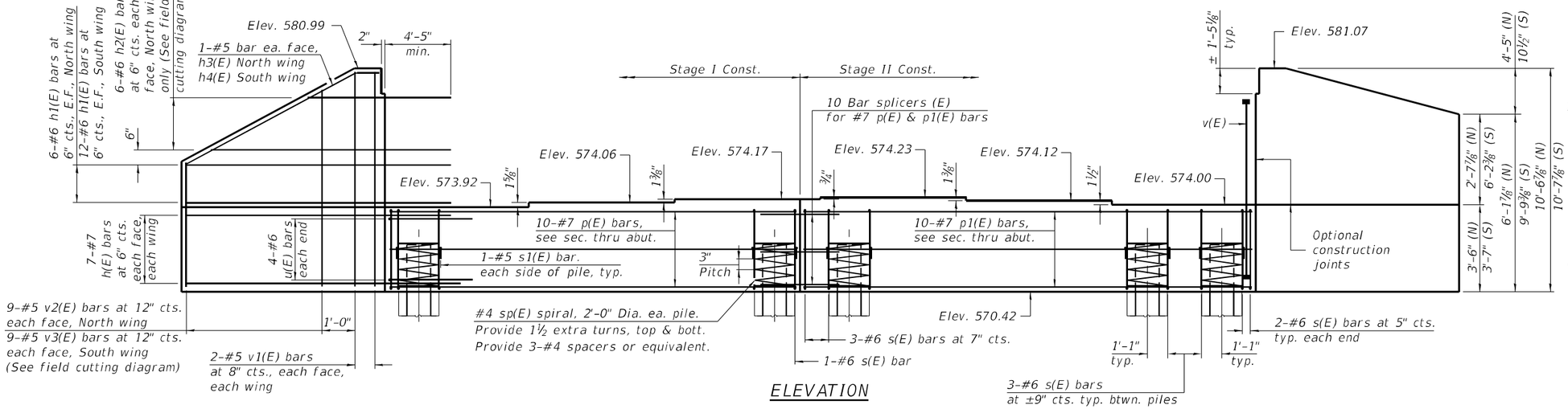


BAR s1(E)

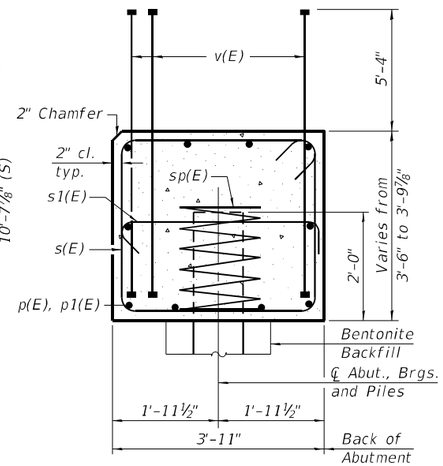


BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles, see sheet 33 of 38.
For details of bar splicers, see sheet 34 of 38.
Piles shall be driven through 24" diameter precored holes extending to Elev. 560.71 according to article 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.



ELEVATION



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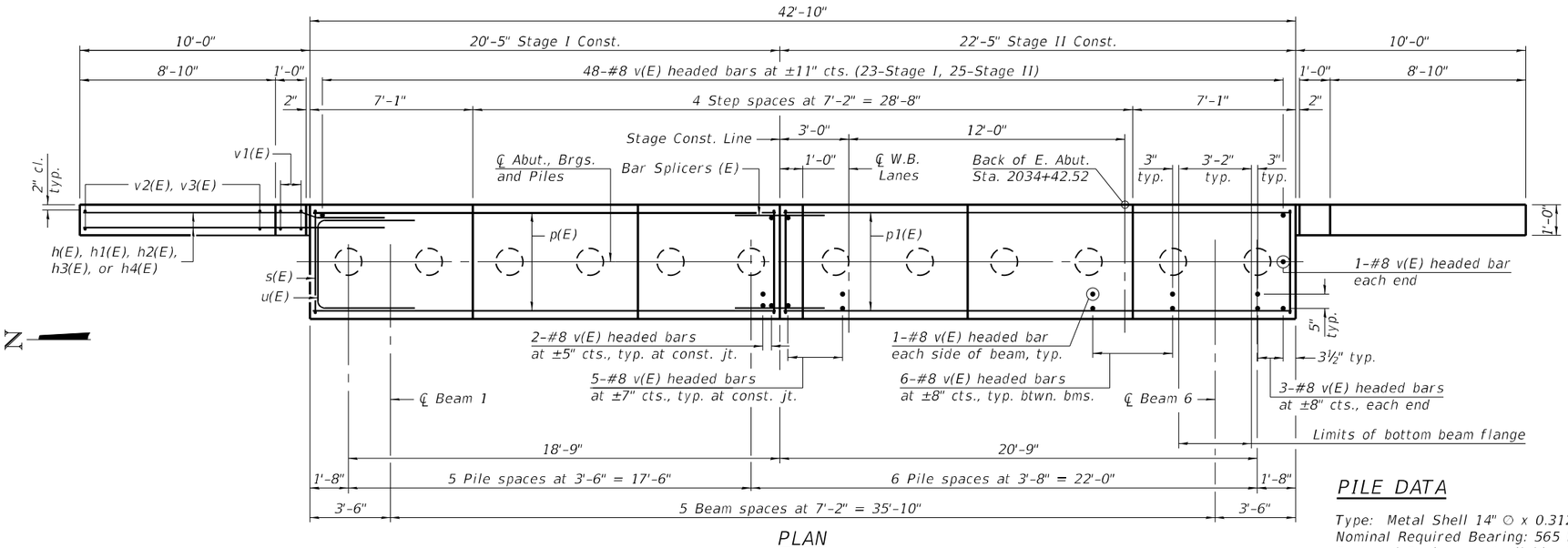


PLAN

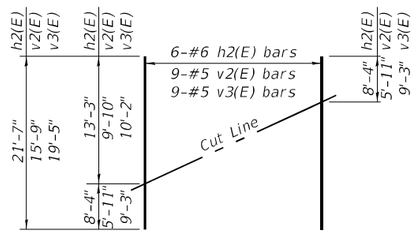
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#7	14'-3"	
h1(E)	36	#6	14'-3"	
h2(E)	6	#6	21'-7"	
h3(E)	2	#5	10'-6"	
h4(E)	2	#5	9'-7"	
p(E)	10	#7	20'-1"	
p1(E)	10	#7	22'-1"	
s(E)	38	#6	14'-10"	
s1(E)	24	#5	4'-7"	
* sp(E)	12	#4	2'-0"	
u(E)	8	#6	12'-1"	
v(E)	99	#8	8'-5"	
v1(E)	8	#5	10'-4"	
v2(E)	9	#5	15'-9"	
v3(E)	9	#5	19'-5"	
Structure Excavation	Cu. Yd.		92	
Concrete Structures	Cu. Yd.		29.8	
Reinforcement Bars, Epoxy Coated	Pound		6,990	
Bar Splicers	Each		10	
Furnishing Metal Shell Piles 14"x0.312"	Foot		539	
Driving Piles	Foot		539	
Test Pile Metal Shells	Each		1	
Pile Shoes	Each		12	

* Length is height of spiral.

PILE DATA

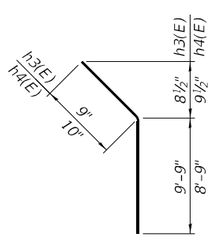
Type: Metal Shell 14" ○ x 0.312" w/pile shoes
Nominal Required Bearing: 565 kips
Factored Resistance Available: 311 kips
Est. Length: 49 ft.
No. Production Piles: 11
No. Test Piles: 1



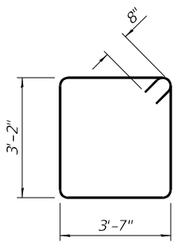
FIELD CUTTING DIAGRAM

Order h2(E), v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

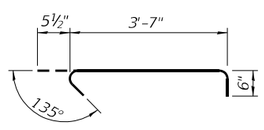
BAR v(E)
(Headed)



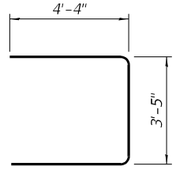
BAR h3(E) & h4(E)



BAR s(E)

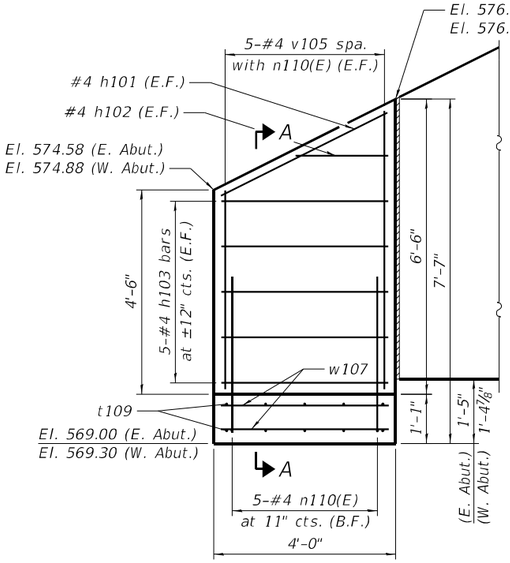


BAR s1(E)



BAR u(E)

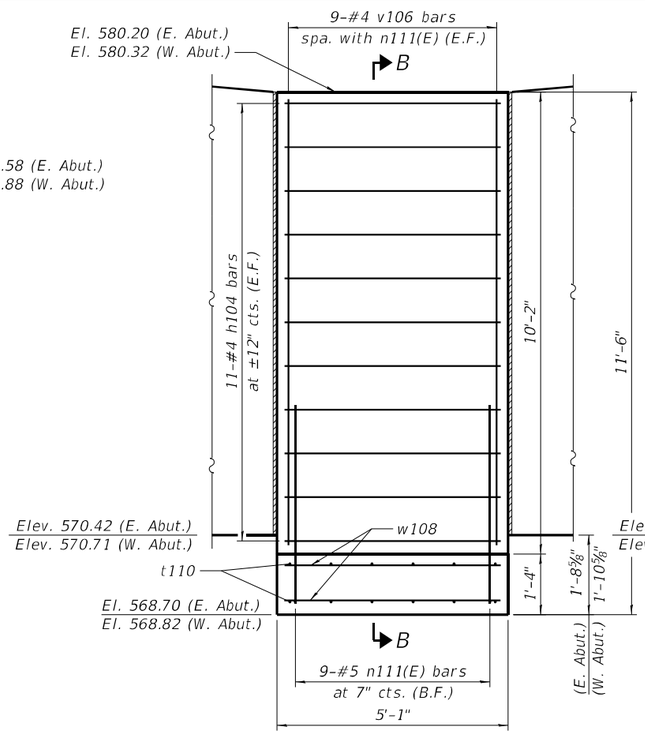
Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles, see sheet 33 of 38.
For details of bar splicers, see sheet 34 of 38.
Piles shall be driven through 24" diameter precored holes extending to Elev. 560.42 according to article 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturer's recommendations to achieve a Qu of 1.5 tsf.



NORTH WING ELEVATION

(Looking at Front Face of East Abument, West Abutment similar)

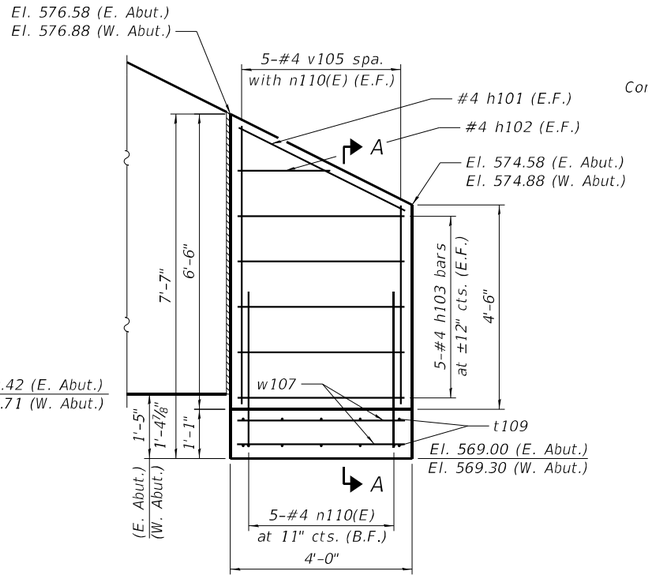
(W. Abut.)



MEDIAN WALL ELEVATION

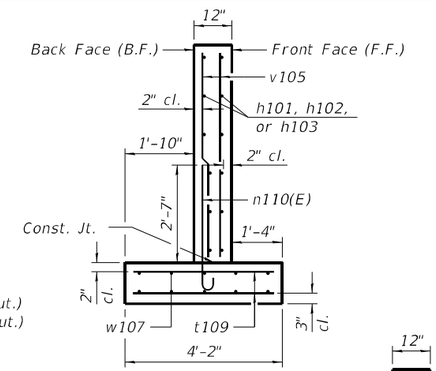
(Looking at Front Face)

(E. Abut.)



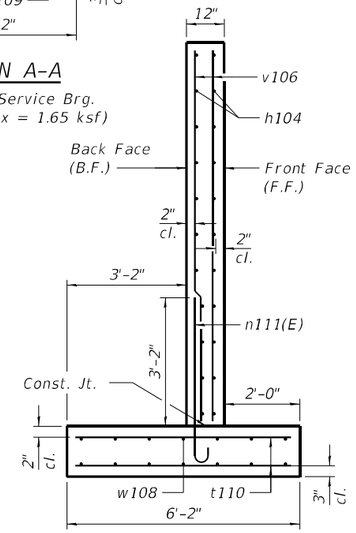
SOUTH WING ELEVATION

(Looking at Front Face of East Abument, West Abutment similar)



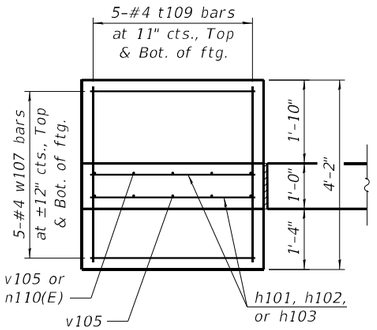
SECTION A-A

(Max. Applied Service Brg. Pressure, Qmax = 1.65 ksf)

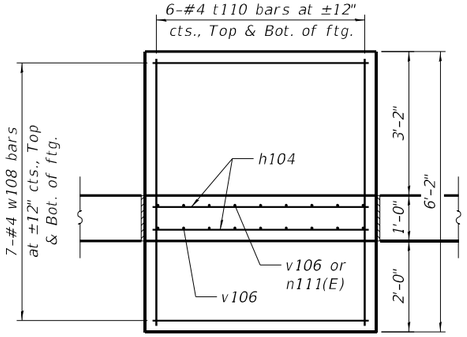


SECTION B-B

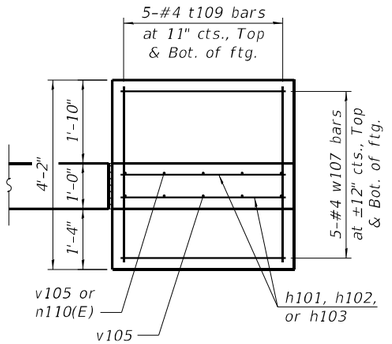
(Max. Applied Service Bearing Pressure, Qmax = 2.14 ksf)



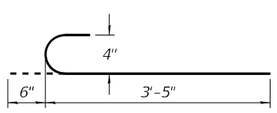
NORTH WING PLAN



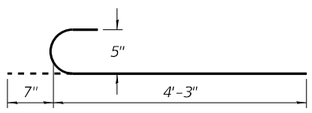
MEDIAN WALL PLAN



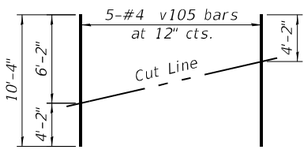
SOUTH WING PLAN



BAR n110(E)

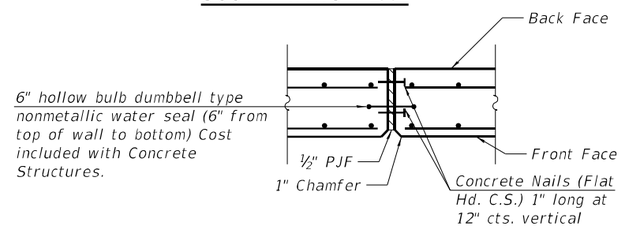


BAR n111(E)



FIELD CUTTING DIAGRAM

(Order v105 bars full length. Cut as shown and use remainder of bars in opposite face.)



JOINT DETAIL

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h101	8	#4	4'-2"	—
h102	8	#4	1'-8"	—
h103	40	#4	3'-8"	—
h104	44	#4	4'-9"	—
v105	20	#4	10'-4"	—
v106	36	#4	9'-10"	—
w107	40	#4	3'-8"	—
w108	28	#4	4'-9"	—
t109	40	#4	3'-10"	—
t110	24	#4	5'-10"	—
n110(E)	20	#4	3'-11"	⊂
n111(E)	18	#5	4'-10"	⊂
Structure Excavation		Cu. Yd.	33	
Concrete Structures		Cu. Yd.	12.9	
Reinforcement Bars		Pound	1,030	
Reinforcement Bars, Epoxy Coated		Pound	140	

Notes:

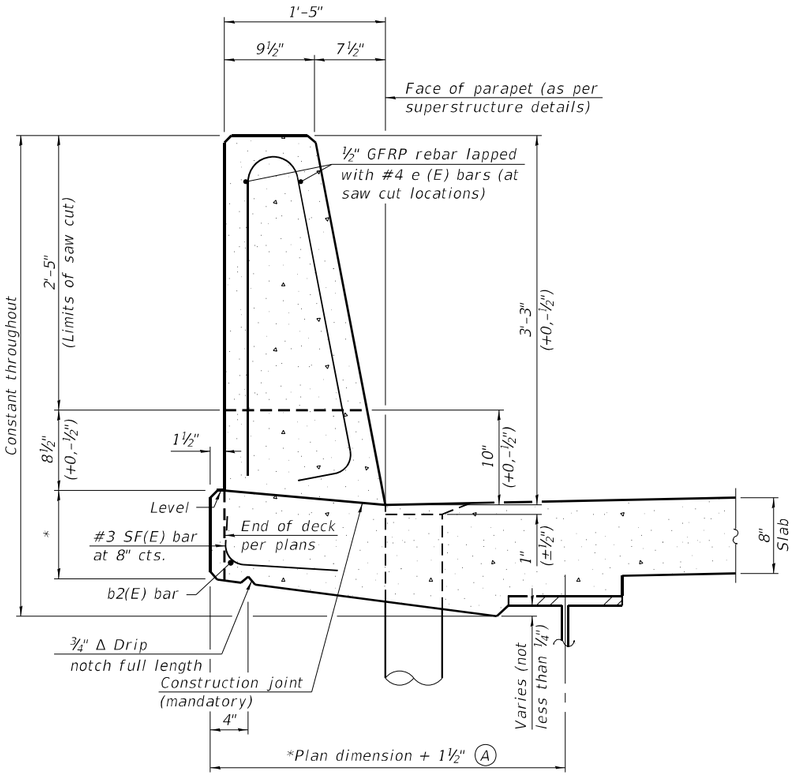
This sheet constains information for both abutments, consisting of four wingwall extensions and two median walls. The Bill of Material contains the materials for both abutments.

MODEL: Default
FILE NAME: P:\2020\200840\d CADD - DWG\4.4 Struct\092-0208(0209)\092020809-70860-031-Wingwall Extension Details.dgn
6/29/2023 3:49:47 PM

TWM ENGINEERING & GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

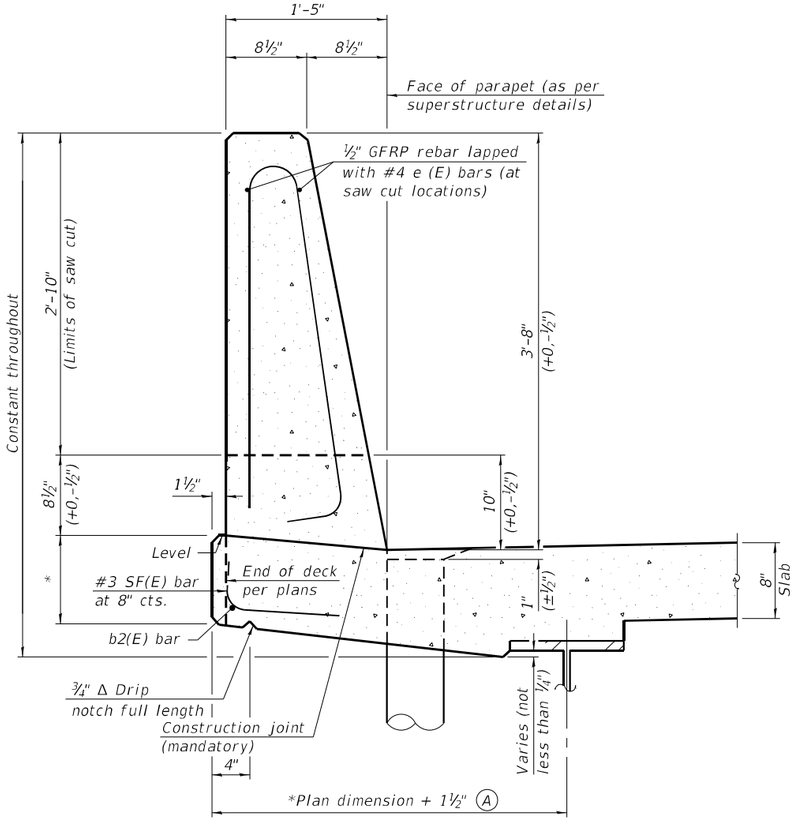
USER NAME = bpolter		DESIGNED - JDM & JBE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WINGWALL EXTENSION DETAILS STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
		CHECKED - BWP	REVISED -		
PLOT SCALE = 0.1667 ' / in.		DRAWN - JDM & JBE	REVISED -		SHEET 31 OF 38 SHEETS
PLOT DATE = 6/29/2023		CHECKED - BWP	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	104
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)



44" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)

*See Superstructure Details.

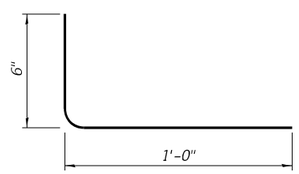
Notes:

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.

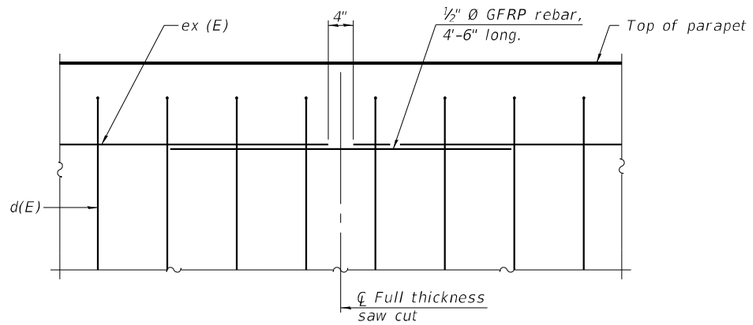
Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Steel superstructure shown. Other superstructure types similar.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 39-44 11-1-2022

TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220
ENGINEERING & GEOSPATIAL SERVICES

USER NAME = bpoiter	DESIGNED - MAL	REVISED -	
	CHECKED - BWP	REVISED -	
PLOT SCALE = 0.166667 ' / in.	DRAWN - MAL	REVISED -	
PLOT DATE = 4/25/2023	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 32 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	105
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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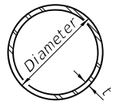
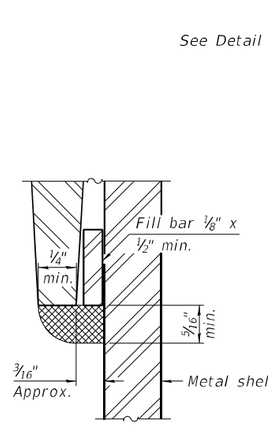
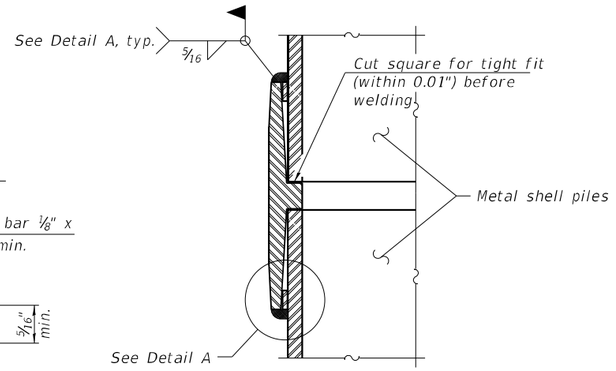


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume ($yd.^3/ft.$)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

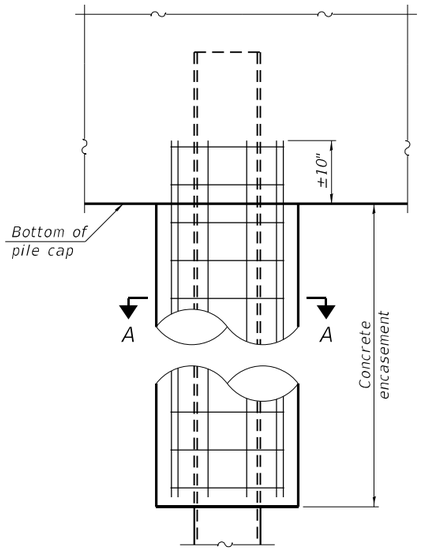


DETAIL A



WELDED COMMERCIAL SPLICE

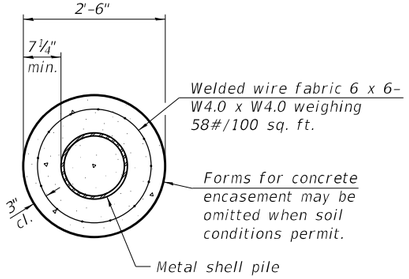
Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



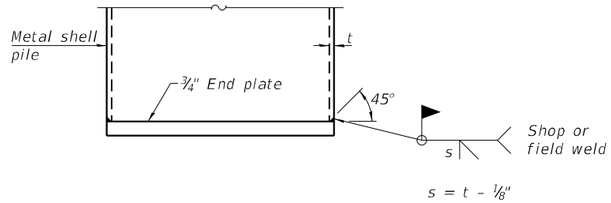
ELEVATION

INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)

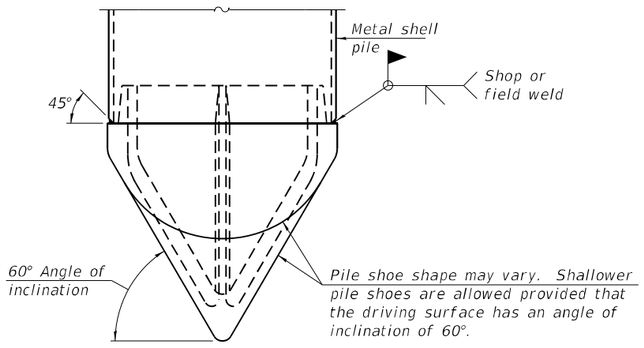


SECTION A-A



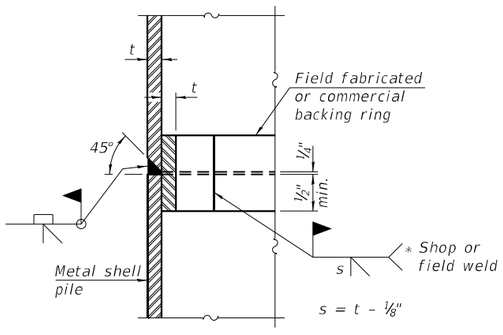
s = t - ⅛"

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

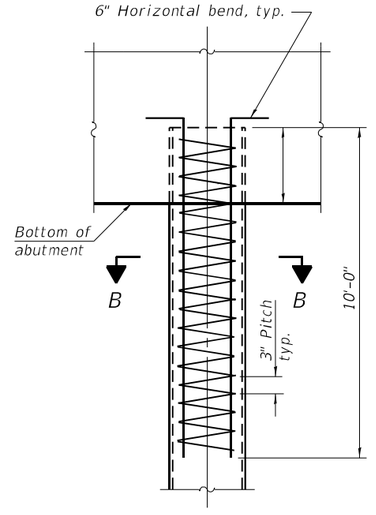
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



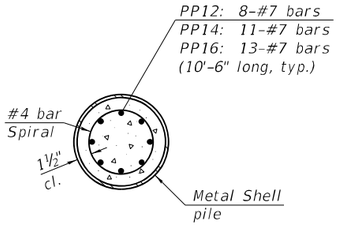
s = t - ⅛"

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 2-1-2023

MODEL: Default
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4/25/2023 11:33:35 AM

TWM, INC. WWW.TWM-INC.COM
ENGINEERING & GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

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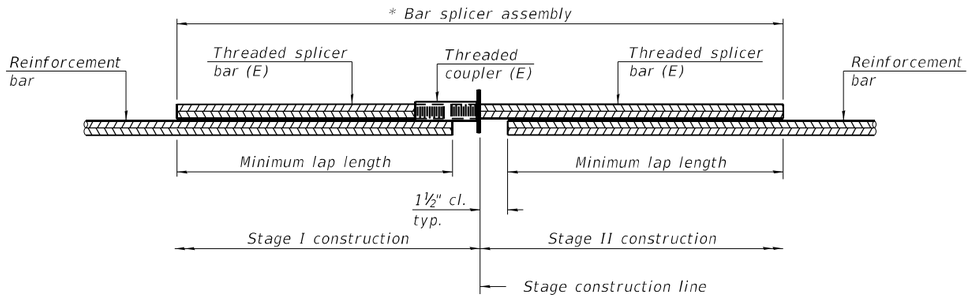
		CHECKED - BWP		REVISED -			
PLOT SCALE = 0.166667 ' / in.		DRAWN - MAL		REVISED -			
PLOT DATE = 4/25/2023		CHECKED - BWP		REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 33 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	106
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



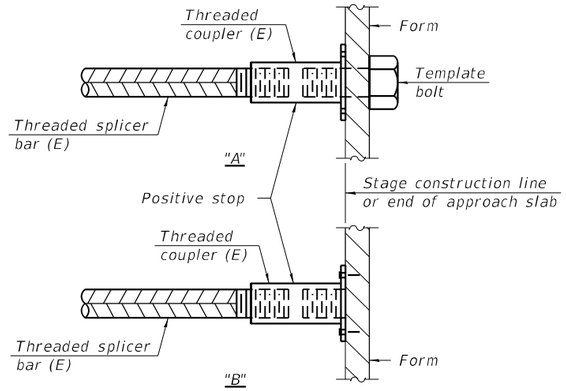
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

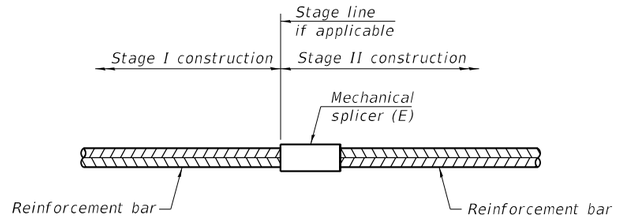
** Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.*

Location	Bar size	No. assemblies required	Minimum lap length
Deck, Top	#5	548	3'-6"
Deck, Bottom	#5	346	3'-6"
Approach Slabs, Top	#5	184	3'-4"
Approach Slabs, Bottom	#8	240	4'-9"
Approach Footings	#5	160	3'-2"
Abutment Diaphragm, Back Face	#6	28	4'-0"
Abutment Diaphragm, Front Face, Web Area	#6	20	See Diaphragm Bar Splicer Detail
Abutment Diaphragm, Front Face, Flange Area	#6	4	See Diaphragm Bar Splicer Detail
Abutment Cap	#7	40	5'-0"



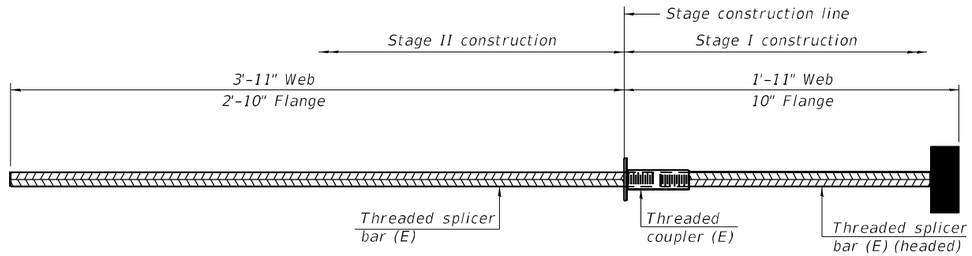
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



DIAPHRAGM BAR SPLICER DETAIL

(All components shall be provided from one supplier)

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020

TWM, INC. WWW.TWM-INC.COM
ENGINEERING GEOSPATIAL SERVICES
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bpolter		DESIGNED - MAL		REVISED -	
		CHECKED - BWP		REVISED -	
PLOT SCALE = 0.166667 ' / in.		DRAWN - MAL		REVISED -	
PLOT DATE = 4/25/2023		CHECKED - BWP		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 34 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	107
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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4/25/2023 11:33:37 AM

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/21-23/2021

ROUTE I-74 DESCRIPTION PTB 197 Item 27 I-74 over Griffin Street LOGGED BY SCI

SECTION (92-12HB-4)BR-1 LOCATION Danville, Illinois
Lat 40.114341 Long -87.602421

COUNTY Vermilion DRILLING METHOD HSA, Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station
BORING NO. B-1
Station 2032+60
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 566.5 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, SANDY LOAM (A-1), trace fine gravel, with dark brown, LOAM (A-6), moist, stiff *18.5% passing the No. 200 sieve.*		3 3 6	0.5 P	17
576.0 FILL: Brown, CLAY LOAM (A-6), with brown, SANDY CLAY LOAM (A-4), fine to coarse grained, trace fine gravel, moist, very stiff to hard	-5	1 3 12	0.7 B/20	21
		12 21 19	>4.5 P	15
	-10	6 10 7	>4.5 P	12
569.5 FILL: Brown, SANDY LOAM (A-3), fine to coarse grained, trace fine gravel, moist, dense		11 16 20	NC	--
567.0 FILL: Brown, CLAY LOAM (A-4), moist, very stiff to stiff	▼			
	-15	4 9 8	4.0 P	17
564.5 FILL: Brown, SANDY CLAY LOAM (A-2), fine grained, moist, medium dense *26.3% passing the No. 200 sieve.*		8 10 8	>4.5 P	11
562.0 FILL: Brown, CLAY LOAM (A-6), moist, very stiff to stiff *Atterberg Limits Test performed.*				
560.0	-20	1 5 7	1.2 B/20	16
FILL: Brown, SANDY LOAM (A-1), trace fine gravel, with SANDY CLAY LOAM (A-6), moist, very stiff *16.4% passing the No. 200 sieve.*		8 14 15	4.0 P	--
	-25	8 14 16	3.5 P	--
554.5 FILL: Brown, CLAY LOAM (A-6), trace fine gravel, moist, stiff		3 5 7	2.7 B/20	14
552.0 FILL: Brown, SAND (A-3), fine to coarse grained, with fine gravel, with brown, SANDY CLAY LOAM (A-4), trace fine gravel, moist, dense	-30	9 16 11	4.5 P	--
548.0 CLAY LOAM: Dark brown, moist, medium stiff, (A-6) *Grain Size Analysis performed.* *56.4% passing the No. 200 sieve.*	-35	3 3 5	0.5 S/10	22
543.0 SAND: Brown, fine to coarse grained, trace fine gravel, moist, medium dense, (A-1)				
540.0	-40	14 12 18	NC	--

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/21-23/2021

ROUTE I-74 DESCRIPTION PTB 197 Item 27 I-74 over Griffin Street LOGGED BY SCI

SECTION (92-12HB-4)BR-1 LOCATION Danville, Illinois
Lat 40.114341 Long -87.602421

COUNTY Vermilion DRILLING METHOD HSA, Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station
BORING NO. B-1
Station 2032+60
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 566.5 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, fine to coarse grained, moist, dense, (A-1) *Begin mud rotary at 40 feet*				
	-45	13 22 27	NC	--
Becomes medium dense	-50	14 14 15	NC	--
528.0 SAND: Gray, fine grained, moist, dense, (A-3)				
	-55	10 13 18	NC	--
523.0 SAND: Gray, fine to coarse grained, moist, dense, (A-1)				
	-60	15 17 20	NC	--
SAND: Gray, fine to coarse grained, moist, dense, (A-1) *(continued)*				
	-65	11 15 16	NC	--
	-70	11 18 20	NC	--
510.0 SAND: Gray, fine grained, moist, dense, (A-3)				
	-75	11 14 23	NC	--
	-80	7 15 20	NC	--

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

MODEL: Default
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4/25/2023 11:33:39 AM

TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bpoiter
PLOT SCALE = 0.166667 ' / in.
PLOT DATE = 4/25/2023

DESIGNED - MAL CHECKED - BWP DRAWN - MAL CHECKED - BWP
REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 35 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	108
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/21-23/2021

ROUTE I-74 **DESCRIPTION** PTB 197 Item 27 I-74 over Griffin Street **LOGGED BY** SCI

SECTION (92-12HB-4)BR-1 **LOCATION** Danville, Illinois
Lat 40.114341 **Long** -87.602421

COUNTY Vermilion **DRILLING METHOD** HSA, Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station

BORING NO. B-1
Station 2032+60
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 566.5 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				SAND: Gray, fine grained, moist, dense, (A-3) *(continued)*
498.0				
				SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-1)
	9 11 17	NC	--	
-85				
	11 11 11	NC	--	
-90				
	19 32 48	NC	--	Becomes very dense, some fine gravel, trace medium to coarse gravel
-95				
	13 20 30	NC	--	
480.0 -100				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				SAND: Gray, fine grained, some fine gravel, trace medium to coarse gravel, moist, very dense, (A-1) *(continued)*
478.0				
				SILT: Gray, moist, hard, (A-4)
	16 23 32	4.0 P		
-105				
473.0				
				SAND: Gray, fine grained, moist, dense, (A-3)
	13 18 26	NC		
-110				
468.0				
				SILTY CLAY LOAM: Gray, moist, very stiff (A-6)
	4 8 13	0.6 S/15		
-115				
463.0				
				SANDY LOAM: Gray to dark gray, fine grained, moist, dense (A-3)
	8 14 18	NC		
460.5 -120				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/21-23/2021

ROUTE I-74 **DESCRIPTION** PTB 197 Item 27 I-74 over Griffin Street **LOGGED BY** SCI

SECTION (92-12HB-4)BR-1 **LOCATION** Danville, Illinois
Lat 40.114341 **Long** -87.602421

COUNTY Vermilion **DRILLING METHOD** HSA, Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station

BORING NO. B-1
Station 2032+60
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 566.5 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				SAND: Dark gray, fine to coarse grained, trace fine gravel, moist, dense (A-1) *(continued)*
459.0				
	50/5"	NC		CLAYEY SHALE: Gray
456.2				
	50/3"	NC		Tricone refusal at 123.8 feet. Borehole grouted upon completion.
-125				
-130				
-135				
-140				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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TWM ENGINEERING & GEOSPATIAL SERVICES — TWM, INC. WWW.TWM-INC.COM — IL DESIGN FIRM LICENSE NO: 184-001220

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	CHECKED - BWP	REVISED -	
PLOT SCALE = 0.166667 ' / in.	DRAWN - MAL	REVISED -	
PLOT DATE = 4/25/2023	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 36 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	109
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/29,30-8/2,3/2021

ROUTE I-74 **DESCRIPTION** PTB 197 Item 27 I-74 over Griffin Street **LOGGED BY** SCI

SECTION (92-12HB-4)BR-1 **LOCATION** Danville, Illinois
Lat 40.114359 **Long** -87.60165

COUNTY Vermilion **DRILLING METHOD** HSA, Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station

BORING NO. B-2
Station 2034+76
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter None. ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, SANDY LOAM (A-2), trace fine gravel and clay lumps, moist, stiff to very stiff *Grain Size Analysis performed.* *28.2% passing the No. 200 sieve.*	4 10 11	NC	--
-5	3 11 16	NC	--
	8 9 13	NC	--
-10	5 8 11	NC	--
569.5 FILL: Brown and gray, SANDY CLAY (A-4), trace fine gravel, moist, stiff *Atterberg Limits test performed.*	8 12 15	<4.5 P	--
566.0 FILL: Brown, SANDY LOAM (A-4), trace fine gravel, moist, very stiff *39.5% passing the No. 200 sieve.*	6 14 13	NC	--
	6 11 14	1.6 B/20	--
560.0 -20	7 14 19	NC	--
FILL: Brown, SANDY LOAM (A-1), trace fine gravel, moist, medium dense	13 11 16	NC	--
557.0 FILL: Brown, SANDY CLAY LOAM (A-2), fine grained, trace fine gravel, moist, medium dense *27.8% passing the No. 200 sieve.*	5 7 3	0.5 S/15	--
555.0 -25 FILL: Gray, LOAM (A-4), moist, medium stiff	5 3 6	0.5 B/20	--
552.0 FILL: Gray, SANDY LOAM (A-1), trace crushed brick, with fine to coarse sand, moist, dense *Grain Size Analysis performed.* *23.0% passing the No. 200 sieve.*	10 16 19	4.5 P	--
548.0 SILTY CLAY LOAM: Gray, moist, (A-6)			
545.5 -35 SANDY CLAY: Brown and gray, moist, very stiff, (A-3)	2 10 10	0.5 B/20	18
544.0 SAND: Gray and brown, fine to coarse grained, moist, medium dense, (A-1) *Grain Size Analysis performed.* *13.1% passing the No. 200 Sieve.*	4 4 6	NC	--
No recovery. Hard drilling.	38 50/1"	NC	--
540.0 -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/29,30-8/2,3/2021

ROUTE I-74 **DESCRIPTION** PTB 197 Item 27 I-74 over Griffin Street **LOGGED BY** SCI

SECTION (92-12HB-4)BR-1 **LOCATION** Danville, Illinois
Lat 40.114359 **Long** -87.60165

COUNTY Vermilion **DRILLING METHOD** HSA, Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station

BORING NO. B-2
Station 2034+76
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter None. ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray and brown, fine to coarse grained, moist, dense, (A-3) *Hard drilling. Possible gravel or cobble deposit.*			
Becomes brown and gray, trace fine gravel	10 14 16	NC	--
-45 *No recovery.*	15 16 18	NC	--
-50 527.0 SAND: Gray, fine to carse grained, trace fine to coarse gravel, moist, dense, (A-1)	17 17 16	NC	--
-55 Very dense	22 23 26	NC	--
520.0 -60			
SAND: Gray, fine to coarse grained, moist, very dense, (A-3)			
-65	21 27 28	NC	--
With coarse gravel *Low recovery.*	27 30 18	NC	--
-70 *Low recovery.*	28 27 23	NC	--
-75			
-80	20 21 23	NC	--

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 37 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	110
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

Date 7/29,30-8/2,3/2021

ROUTE I-74 **DESCRIPTION** PTB 197 Item 27 I-74 over Griffin Street **LOGGED BY** SCI

SECTION (92-12HB-4)BR-1 **LOCATION** Danville, Illinois
Lat 40.114359 **Long** -87.60165

COUNTY Vermilion **DRILLING METHOD** HSA, Mud Rotary **HAMMER TYPE** Automatic

STRUCT. NO. 092-0017 (WB) 092-0016 (EB)
Station

BORING NO. B-2
Station 2034+76
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter None. ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, fine to coarse grained, moist, very dense, (A-3) *(continued)*			
498.0			
SAND: Gray, fine to coarse, trace fine gravel, moist, very dense, (A-1)			
	18 24 28	NC	--
-85			
	20 21 25	NC	--
-90			
488.0			
SAND: Gray, fine to coarse grained, moist, dense, (A-3)			
	13 11 18	NC	--
-95			
Dark gray, very dense			
	22 42 35	NC	--
-100			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, fine to coarse grained, moist, dense, (A-3) *(continued)*			
Trace silt deposit	16 26 33	NC	--
-105			
Gray, dense	18 18 27	NC	--
-110			
	18 18 27	NC	--
-115			
463.0			
SILTY LOAM: Gray, moist, very stiff, (A-4)			
	6 10 18	NC	23
Dark gray, with shale fragments 460.0 -120			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SCI Engineering, Inc.
650 Pierce Boulevard
O'Fallon, Illinois 62269

SOIL BORING LOG

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Station 2034+76
Offset 2 ft RT
Ground Surface Elev. 580.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter None. ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM: Gray, with shale fragments, moist, very stiff, (A-4) *(continued)*			
Low recovery.	50/3"	NC	--
No recovery. 456.7	100/4"	NC	--
Tricone refusal at 123.3 feet. Borehole grouted upon completion.			
-125			
-130			
-135			
-140			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 092-0208 (E.B.) & 092-0209 (W.B.)
SHEET 38 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	111
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

Benchmark: Chiseled square on top of SE wingwall. Sta. 2038+99.23, 55.11' RT. Elev. 582.75.

Structure Number 092-0018 (EB) & 092-0019 (WB) were built in 1964 as F.A.I. Rte. 74 over Stony Creek, Section 92-12B-1. The out to out widths were 36'-0" and the back to back lengths were 254'-9½". Repairs performed in 1977 included deck patching, expansion joint reconstruction, installation of waterproofing membrane system and bituminous overlay. The structures were constructed as four span continuous reinforced concrete deck and steel beam superstructures (non-composite) on pile supported solid shaft piers and pile bent spill thru abutments.

In 1992, a reconstruction was conducted consisting of widening and deck replacement under Section (92-12B-1) BR. The bridge decks were widened to 42'-2", one beam line was added, and all substructure units were widened. The new and existing beams were made composite with the deck. Bearings were replaced at all substructure units.

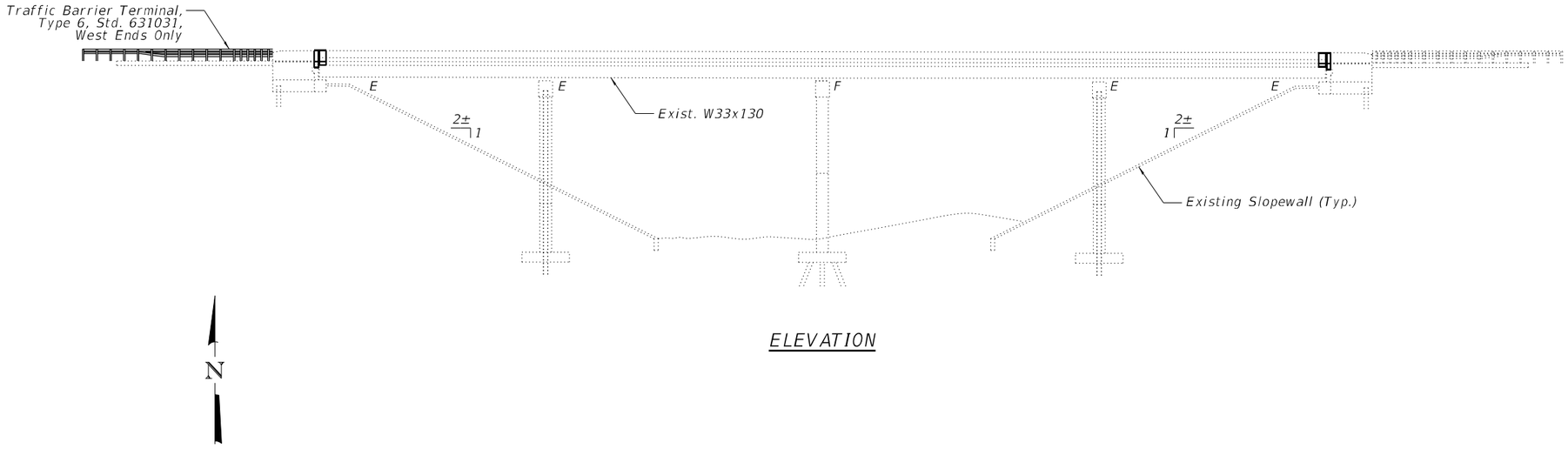
DESIGN STRESSES

FIELD UNITS

New Construction
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel)

Existing Construction (1992 Reconstruction)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel)

Original Construction (1964)
f'c = 3,500 psi
fy = 40,000 psi (Reinforcement)
fy = 33,000 psi (Structural Steel)



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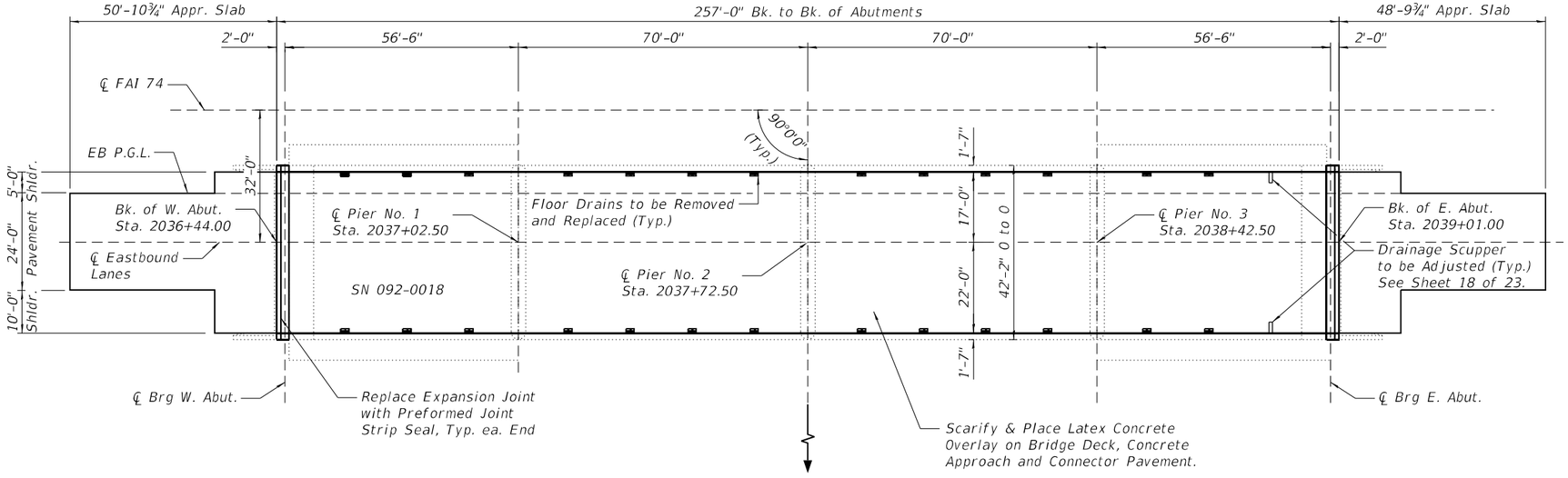
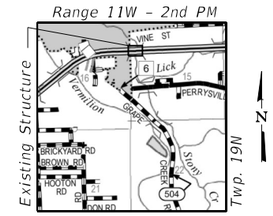


PLAN



LOCATION SKETCH

TYLER J. ZIEGLER 081-007505 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

2-8-2023

TYLER ZIEGLER *Date*
Licensed Structural Engineer
State of Illinois No. 081-007505
Expires 11-30-2024

GENERAL PLAN AND ELEVATION
FAI 74 OVER STONY CREEK
FAI RTE. 74 SECTION (92-12HB-4) BR-1
VERMILION COUNTY
STATION 2037+72.50
STRUCTURE NO. 092-0018 (EB)
STRUCTURE NO. 092-0019 (WB)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 092-0018 (EB)
SHEET 1 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	112
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

Structure Number 092-0018 (EB) & 092-0019 (WB) were built in 1964 as F.A.I. Rte. 74 over Stony Creek, Section 92-12B-1. The out to out widths were 36'-0" and the back to back lengths were 254'-9½". Repairs performed in 1977 included deck patching, expansion joint reconstruction, installation of waterproofing membrane system and bituminous overlay. The structures were constructed as four span continuous reinforced concrete deck and steel beam superstructures (non-composite) on pile supported solid shaft piers and pile bent spill thru abutments.

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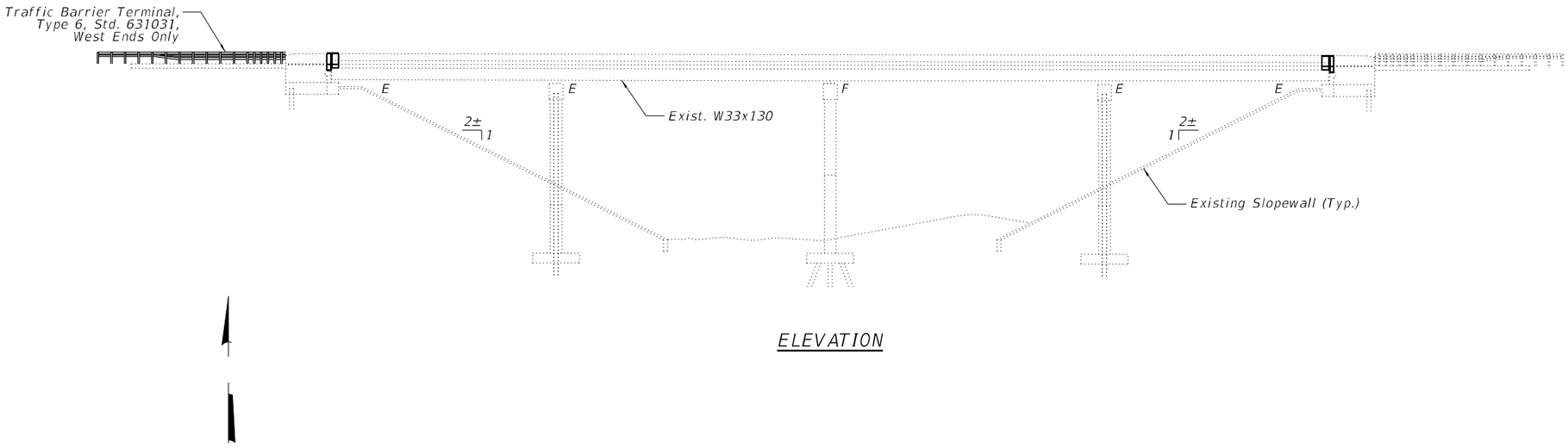
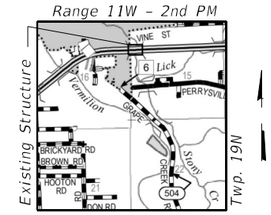
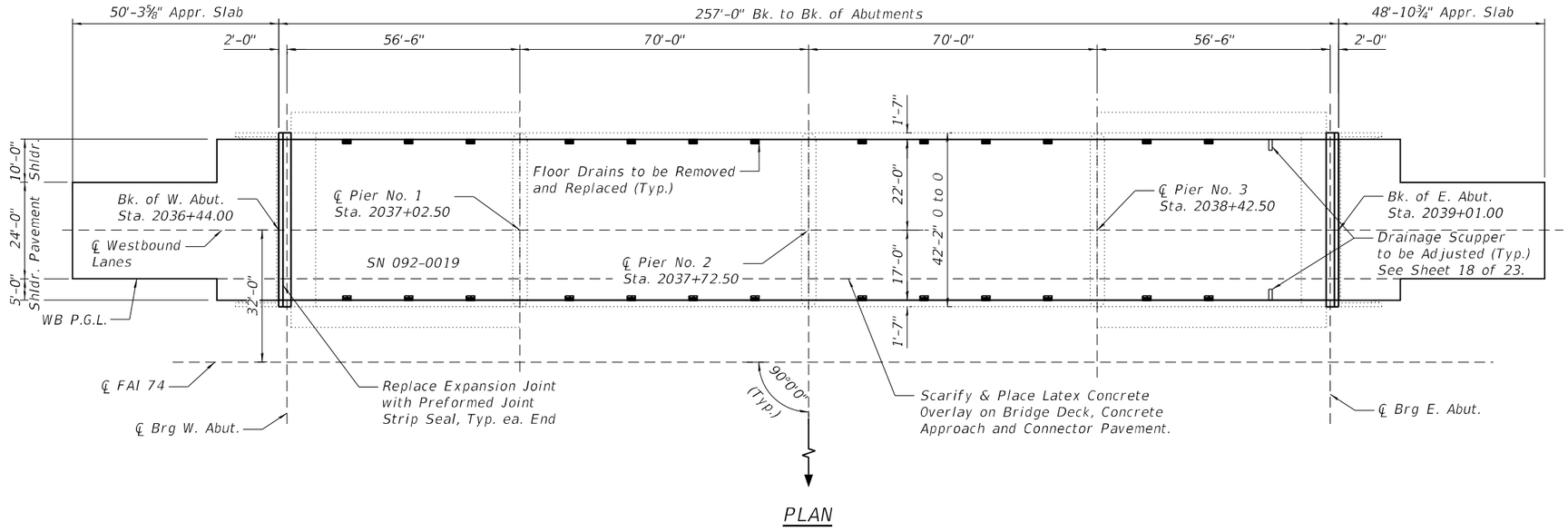


ELEVATION



LOCATION SKETCH



PLAN

TOTAL BILL OF MATERIAL SN 092-0018 & SN 092-0019

Item	Unit	Total
Concrete Removal	Cu. Yd.	24.8
Floor Drains	Each	52
Concrete Superstructure	Cu. Yd.	27.4
Protective Coat	Sq. Yd.	2,867
Furnishing and Erecting Structural Steel	Pound	10,400
Reinforcement Bars, Epoxy Coated	Pound	3,560
Bar Splicers	Each	56
Preformed Joint Strip Seal	Foot	164
Elastomeric Bearing Assembly, Type I	Each	28
Anchor Bolts, 1" ∅	Each	112
Epoxy Crack Injection	Foot	10
Clearing and Grubbing	L Sum	1
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,901
Jack and Remove Existing Bearings	Each	28
Structural Steel Removal	Pound	4,200
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	2,805
Bridge Deck Scarification ¾"	Sq. Yd.	2,805
Structural Repair of Concrete (Depth =< 5")	Sq. Ft.	37
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	68
Drainage Scuppers to be Adjusted	Each	4
Diamond Grinding (Bridge Section)	Sq. Yd.	2,603
Slope Wall Slurry Pumping	Cu. Yd.	8.0

INDEX OF SHEETS

1. General Plan and Elevation - EB
2. General Plan and Elevation - WB
3. General Data
4. Typical Cross Sections - EB
5. Stage Construction Details - EB
6. Typical Cross Sections - WB
7. Stage Construction Details - WB
8. Temporary Concrete Barrier
9. Wearing Surface Plan
10. Deck Slab Repair
11. Concrete Removal - EB
12. Deck Reinforcement - EB
13. Concrete Removal - WB
14. Deck Reinforcement - WB
15. Bar Splicer Assembly and Mechanical Bar Splicer Details
16. Preformed Joint Strip Seal Details
17. Floor Drain Details
18. Drainage Scupper Adjustment
19. Diaphragm Replacement
20. Bearing Replacement
21.-22. Substructure Repair
23. Slopewall Repair

PROPOSED WORK

1. Perform Bridge Deck Scarification on Bridge Deck, Approach Slabs, and PCC Connectors.
2. Place Latex Concrete Overlay on Bridge Deck, Approach Slabs, and PCC Connectors.
3. Perform Diamond Grinding and Longitudinal Deck Grooving.
4. Adjust Drainage Scuppers for Overlay.
5. Remove and Replace Floor Drains.
6. Remove and Replace Deck Ends and Parapet at Deck Ends.
7. Install Preformed Joint Strip Seal at Deck Ends.
8. Perform Steel End Diaphragm Replacement.
9. Perform Abutment Bearing Replacement.
10. Repair Substructure at Abutments and Piers.
11. Perform Slopewall Repair and Vegetation Removal.

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4 in. ø, holes 13/16 in. ø, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contract with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint opening shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

Expansion joints shall be fabricated and installed according to the manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

Areas of structural repair of concrete, epoxy crack injection, and slope wall slurry pumping shown are estimated. The Engineer shall show actual locations of repairs on As-Built plans.

Synthetic Fibers shall be included in the bridge deck concrete overlay specified. See GBSP "Bridge Deck Latex Concrete Overlay."

Protective Coat shall be applied to all new concrete superstructure and all new concrete overlays as specified in Article 503.19 of the Standard Specifications.

Up to 1/4" may be ground off the bridge deck and the bridge approach slabs.

All new structural steel shall be hot-dipped galvanized except where noted otherwise. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

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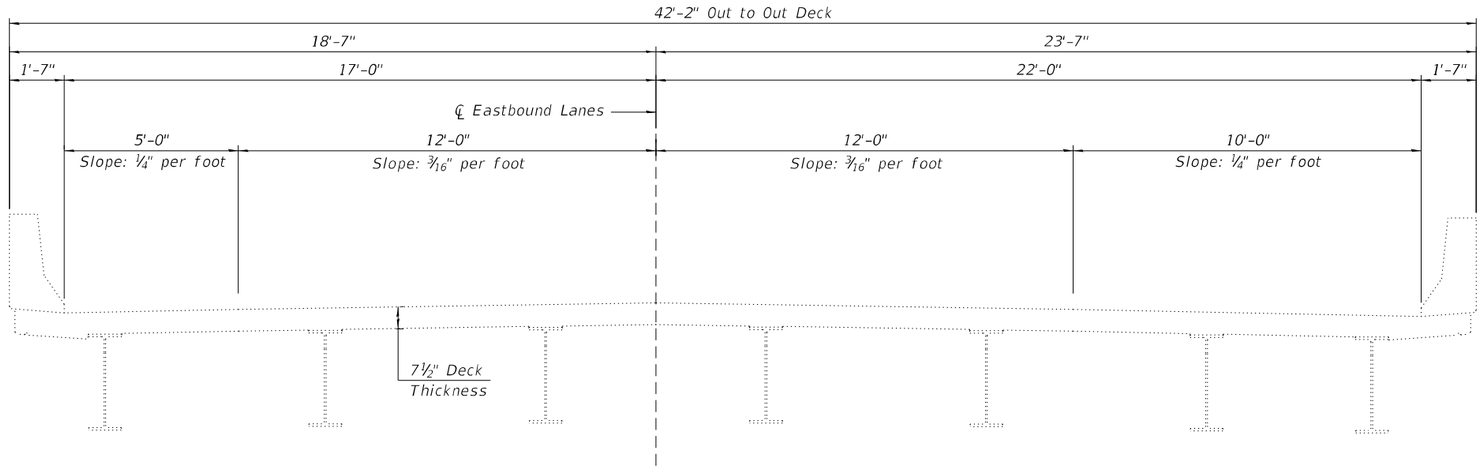
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 3 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	114
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



EXISTING CROSS SECTION

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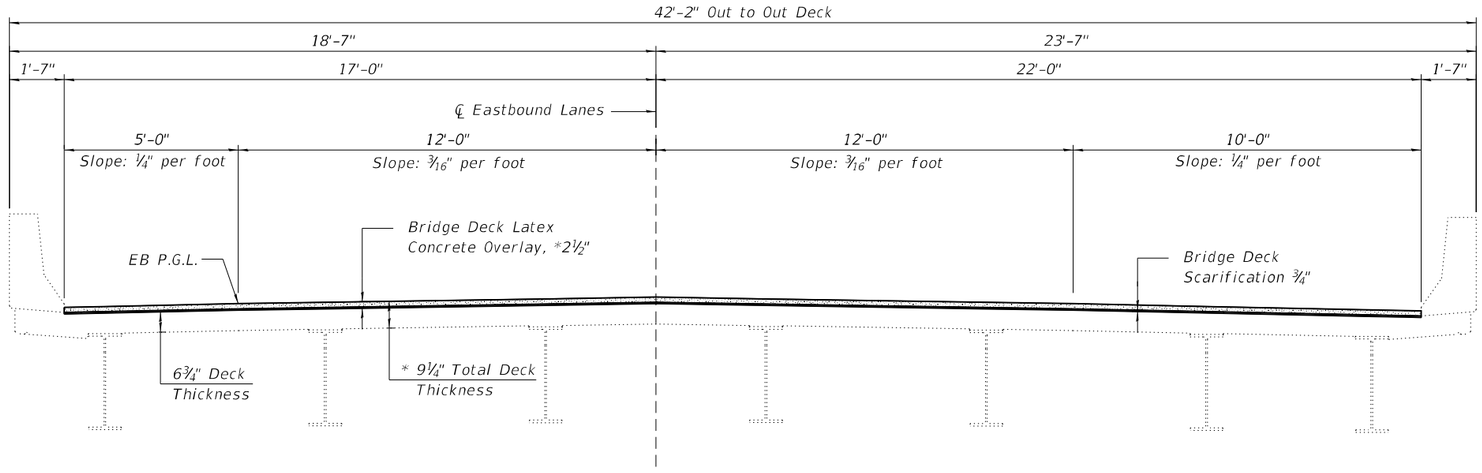

PROPOSED CROSS SECTION

(Looking East)

** Prior to 1/4" Diamond Grinding*

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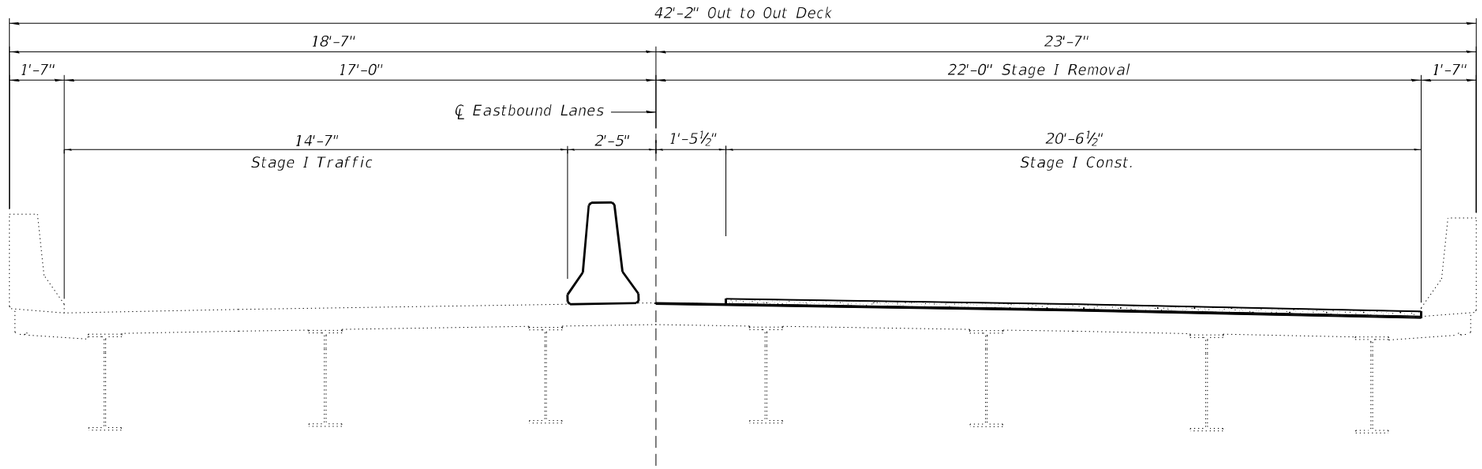
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
STRUCTURE NO. 092-0018 (EB)

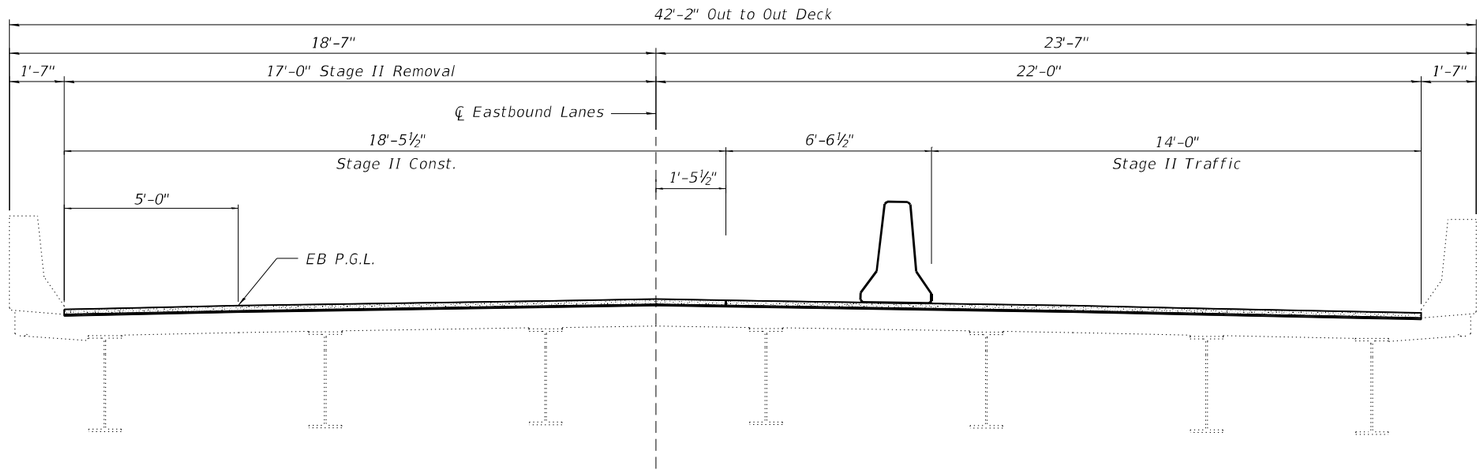
SHEET 4 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	115
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



STAGE I CONSTRUCTION DETAILS

(Looking East)



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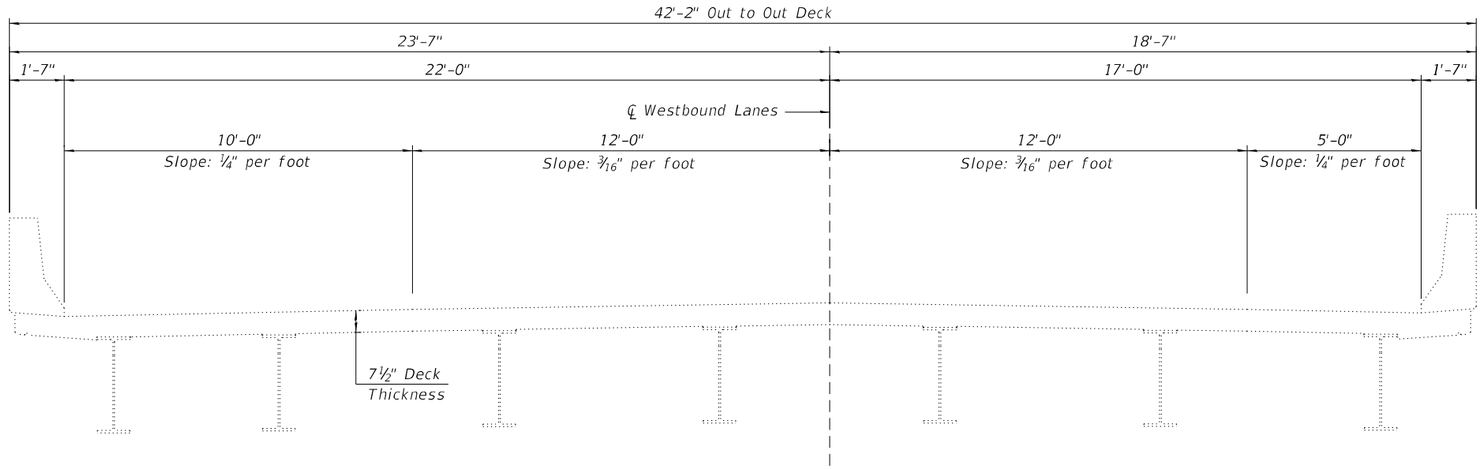
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 092-0018 (EB)
SHEET 5 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	116
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



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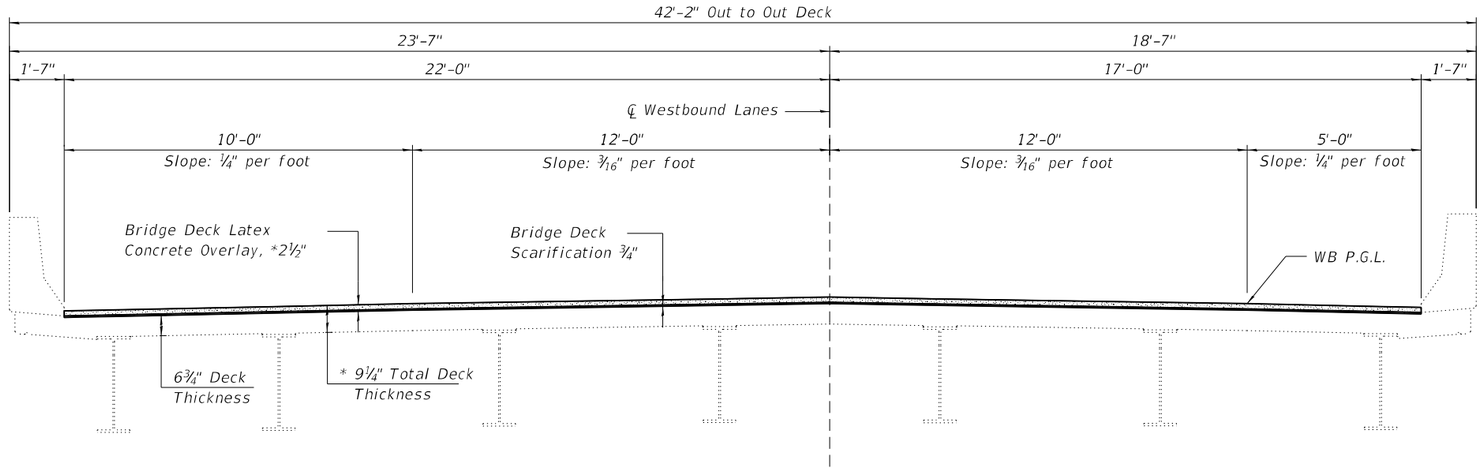

PROPOSED CROSS SECTION

(Looking East)

** Prior to 1/4" Diamond Grinding*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
STRUCTURE NO. 092-0019 (WB)
SHEET 6 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 70860		
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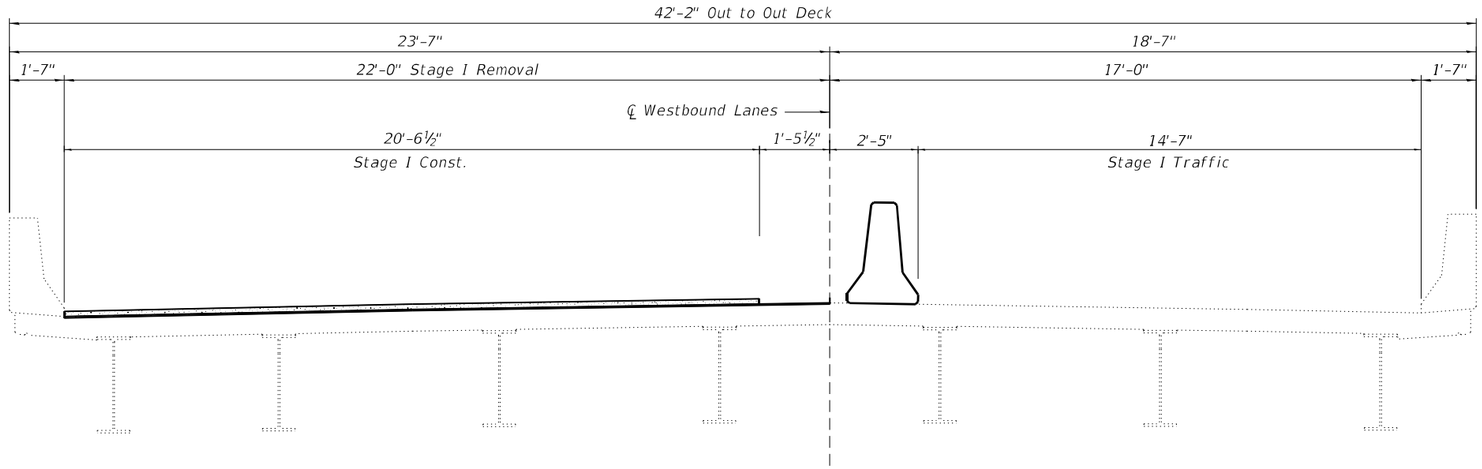
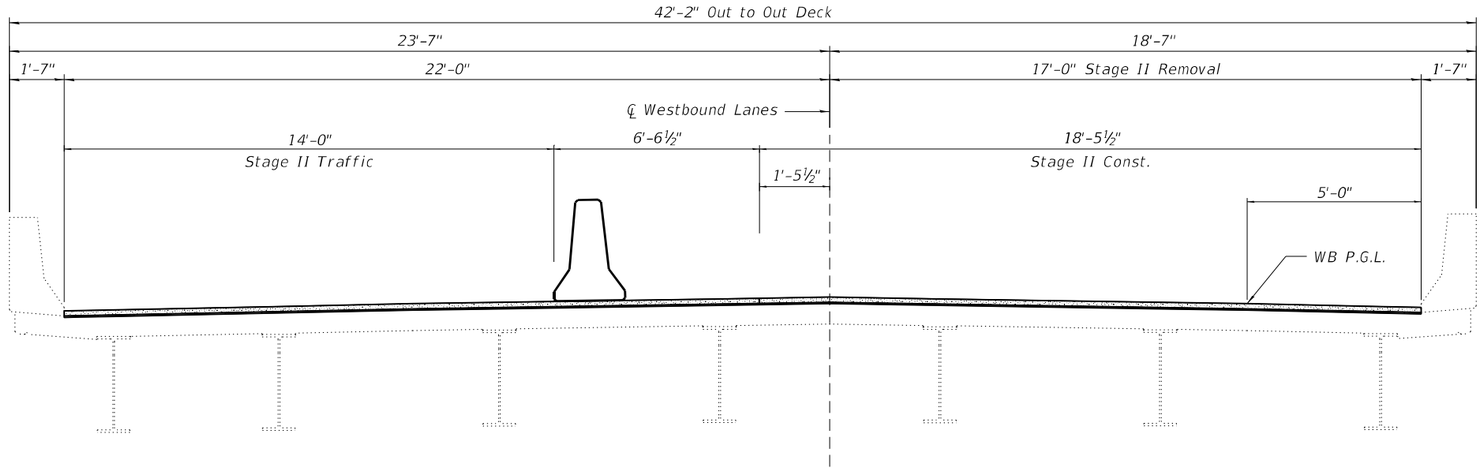


STAGE I CONSTRUCTION DETAILS

(Looking East)



STAGE II CONSTRUCTION DETAILS

(Looking East)

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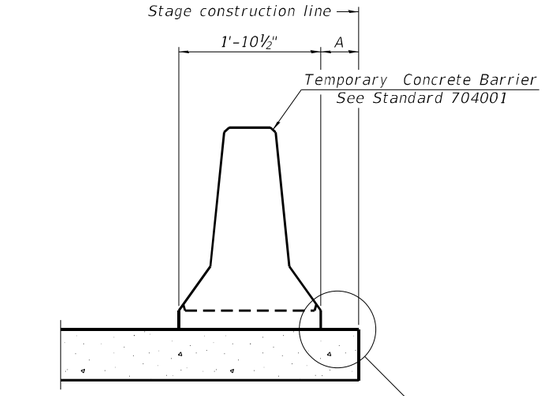
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

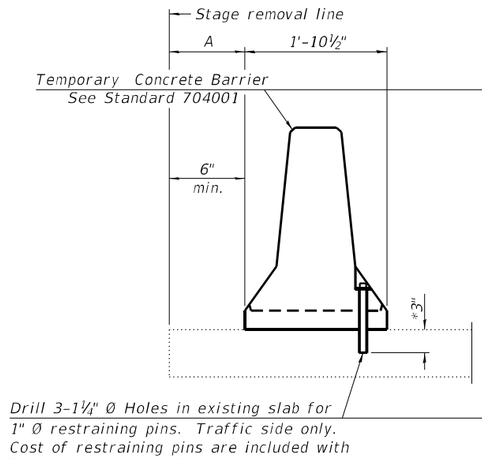
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 092-0019 (WB)
SHEET 7 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	118
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



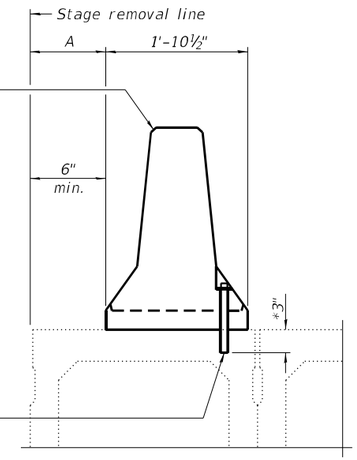
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

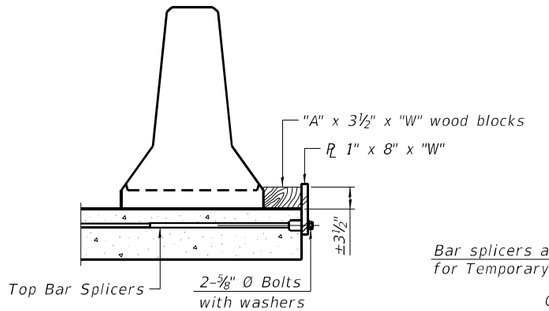
EXISTING SLAB



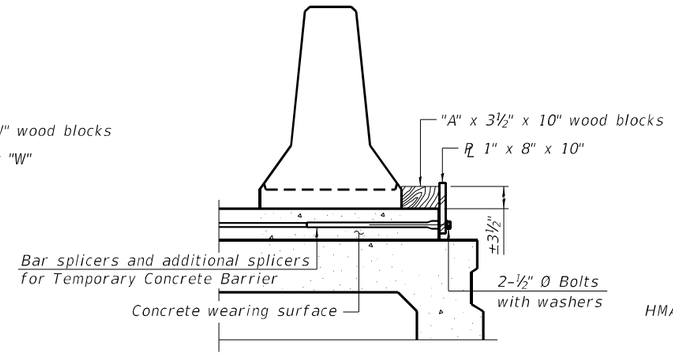
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

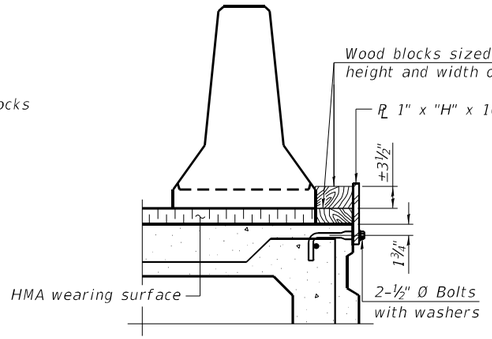
SECTIONS THRU SLAB OR DECK BEAM



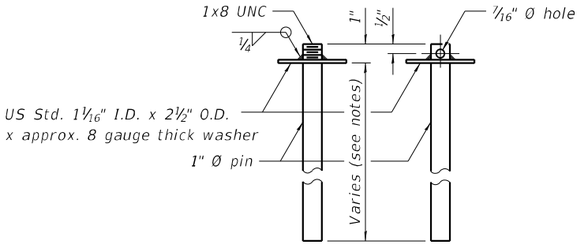
DETAIL I



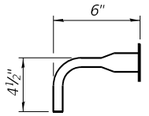
DETAIL II



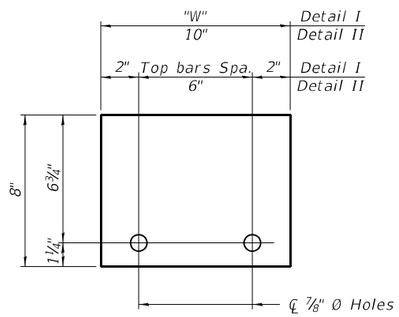
DETAIL III



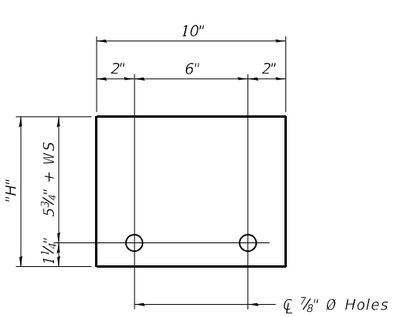
RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER ℄ 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER ℄ 1" x "H" x 10"
(Detail III)

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

10-12-2021

CIVIL DESIGN, INC.
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EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - TAW	REVISED -	
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PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)

SHEET 8 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	119
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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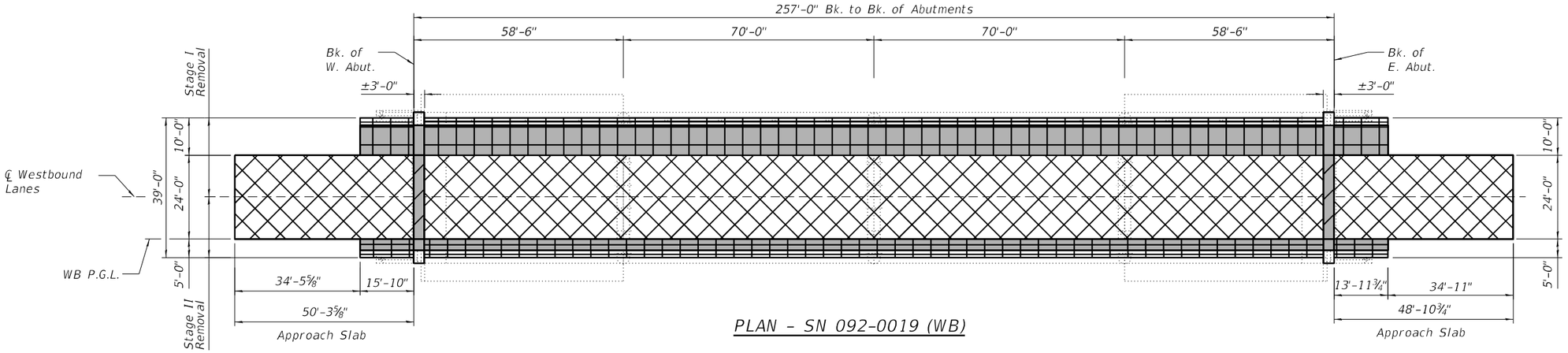
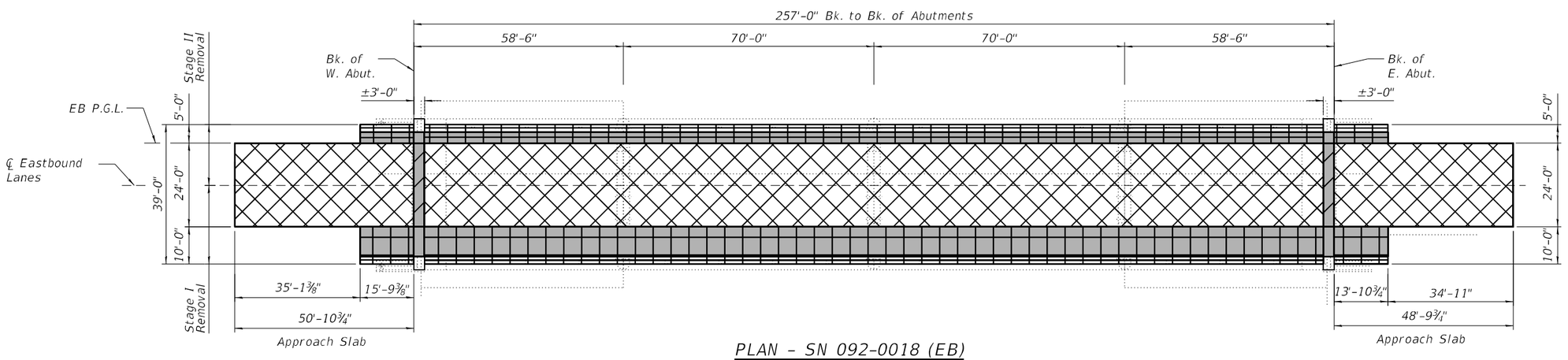
4/24/2023 1:28:46 PM



PLAN – SN 092-0019 (WB)



PLAN – SN 092-0018 (EB)

Bridge Deck Grooving (Longitudinal)

Diamond Grinding

Bridge Deck Scarification, Bridge Latex Concrete Overlay

Bridge Deck Scarification, Bridge Latex Concrete Overlay, Diamond Grinding, and Bridge Deck Grooving (Longitudinal)

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	1,403
	Bridge Deck Scarification, ¾"	Sq. Yd.	1,403
	Bridge Deck Grooving (Longitudinal)	Sq. Yd.	951
	Diamond Grinding (Bridge Section)	Sq. Yd.	1,302

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0019	Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	1,402
	Bridge Deck Scarification, ¾"	Sq. Yd.	1,402
	Bridge Deck Grooving (Longitudinal)	Sq. Yd.	950
	Diamond Grinding (Bridge Section)	Sq. Yd.	1,301

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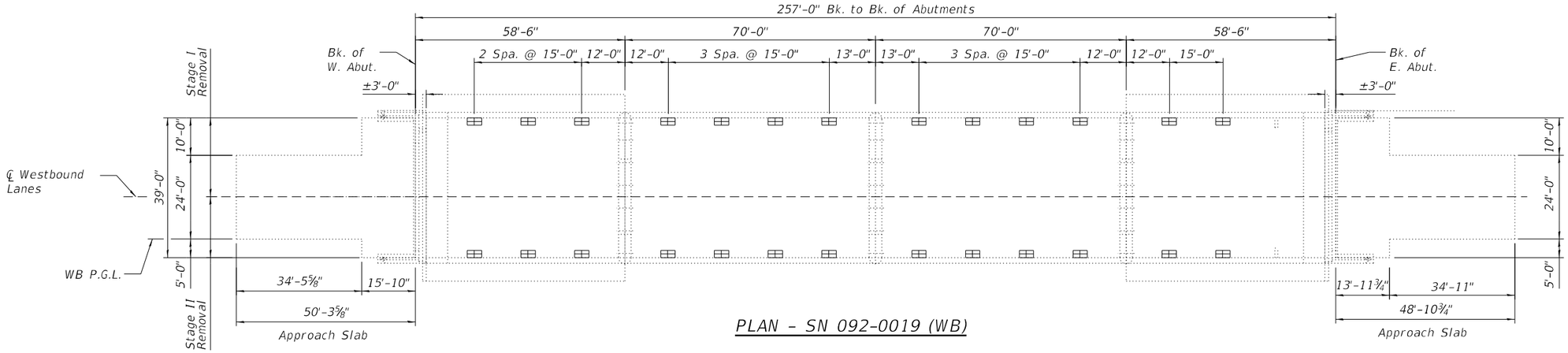
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

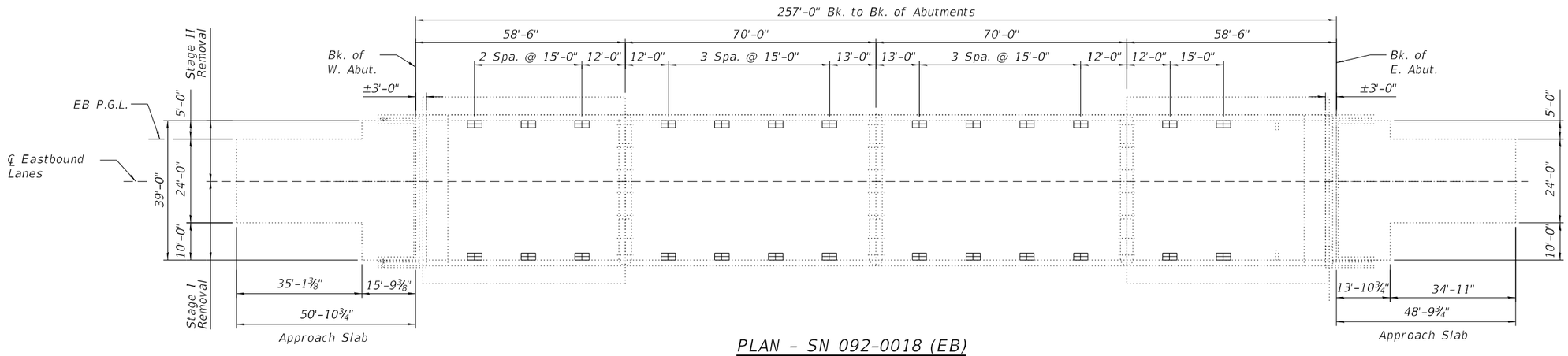
WEARING SURFACE PLAN
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)

SHEET 9 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	120
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



PLAN – SN 092-0018 (WB)



PLAN – SN 092-0018 (EB)

Notes:

An Estimated 2% of the Deck Area has been included should additional Deck Slab Repair (Full Depth, Type I) be required after Bridge Deck Scarification.

The actual sizes and locations of patching shall be determined by the Resident Engineer after removal of the wearing surface, before patching operations begin. The Engineer Shall show the actual locations of the deck repairs on this sheet.

The existing drains and extensions shall be removed. Cost included with Deck Slab Repair (Full Depth, Type I).

Extreme care must be used when removing concrete near the top flange of the beams. The Contractor is responsible for any damage to the beams.

For Floor Drain details, see Sheet 17 of 23.

Deck Slab Repair (Full Depth, Type I) at all Drain Locations
All repair areas are 2'-0" x 1'-0", unless otherwise noted.

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	34
092-0019	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	34

MODEL: Default
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LICENSE #184.003222

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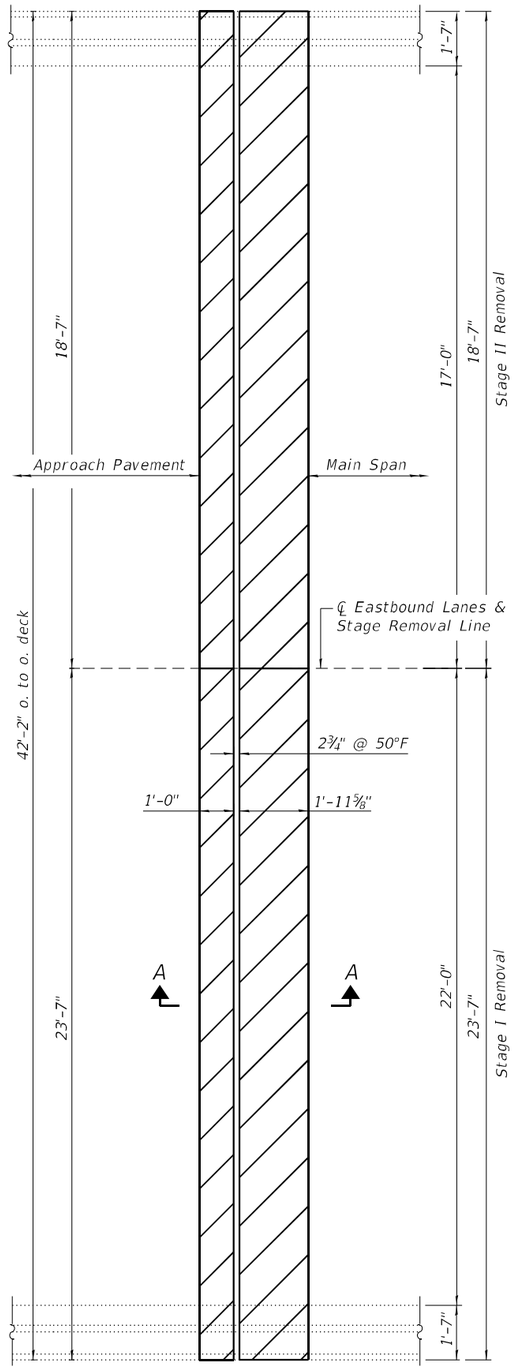
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

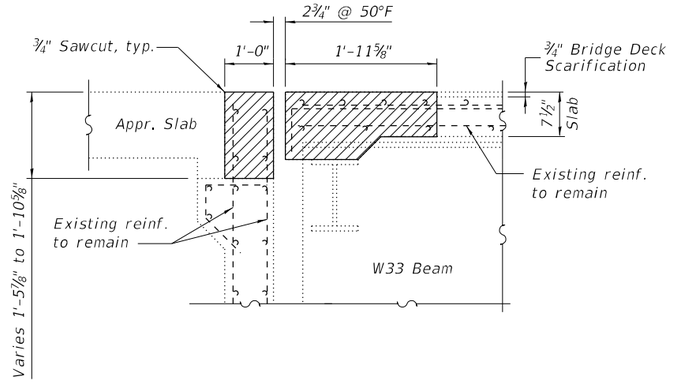
DECK SLAB REPAIR
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 10 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	121
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

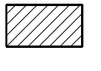


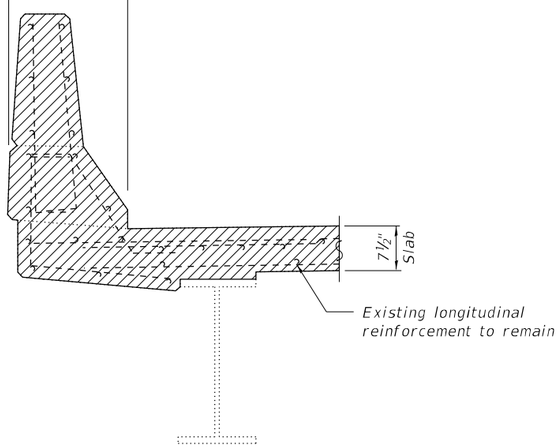
CONCRETE REMOVAL AT WEST ABUTMENT

(East Abutment Similar)

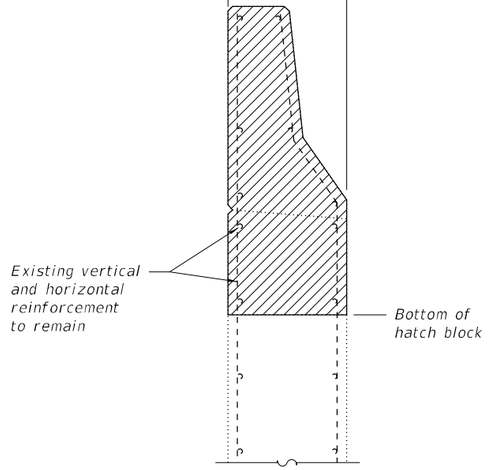


SECTION A-A





SECTION THRU PARAPET



SECTION THRU WINGWALL

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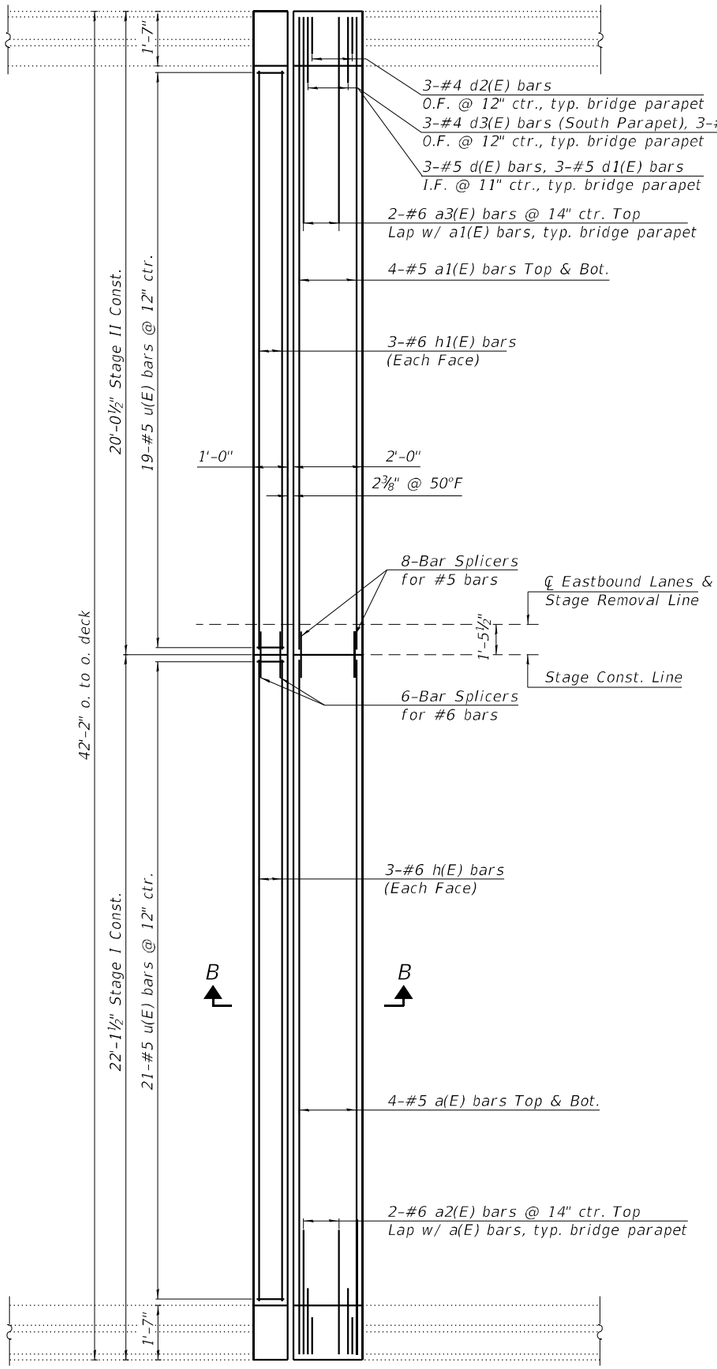
PLOT SCALE =	DRAWN - DCS	REVISED -	
PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

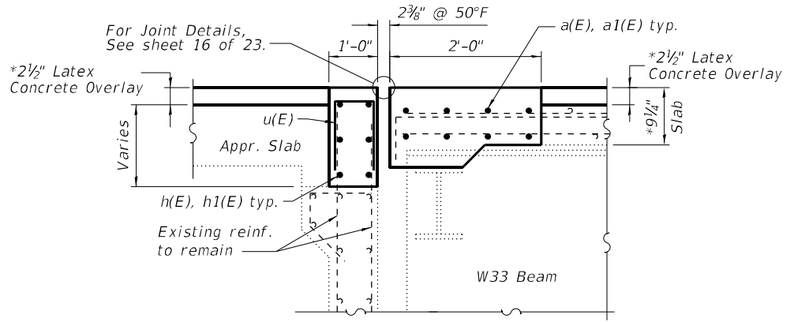
CONCRETE REMOVAL
STRUCTURE NO. 092-0018 (EB)
SHEET 11 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	122
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



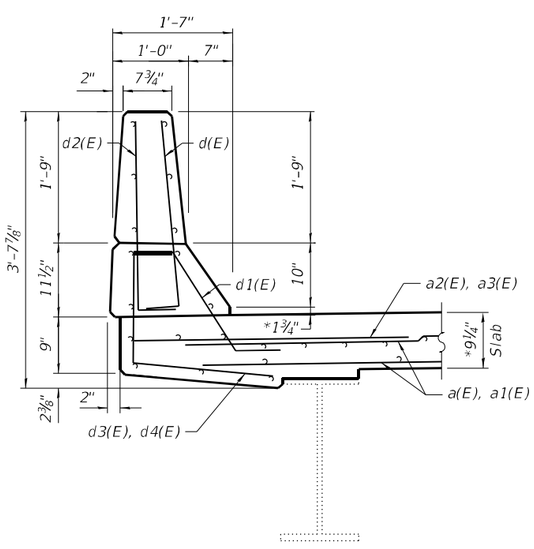
PROPOSED CONCRETE AT WEST ABUTMENT

(East Abutment Similar)



SECTION B-B

* Prior to ¼" Diamond Grinding



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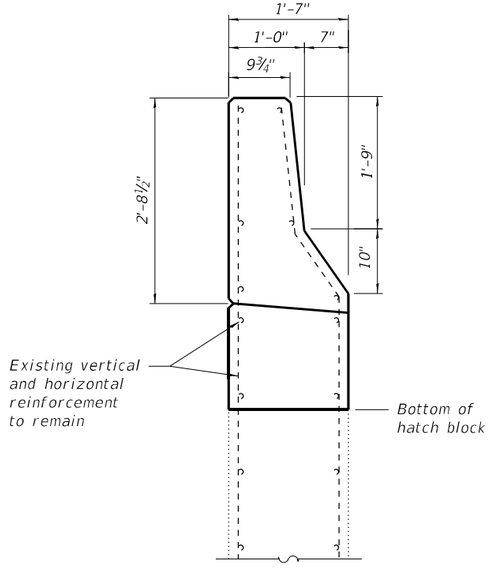
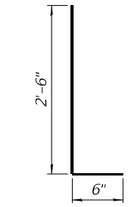
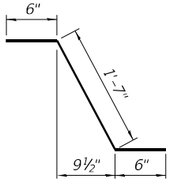


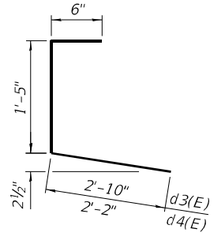
SECTION THRU WINGWALL



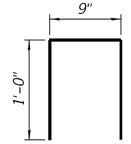
BAR d(E), d2(E)



BAR d1(E)



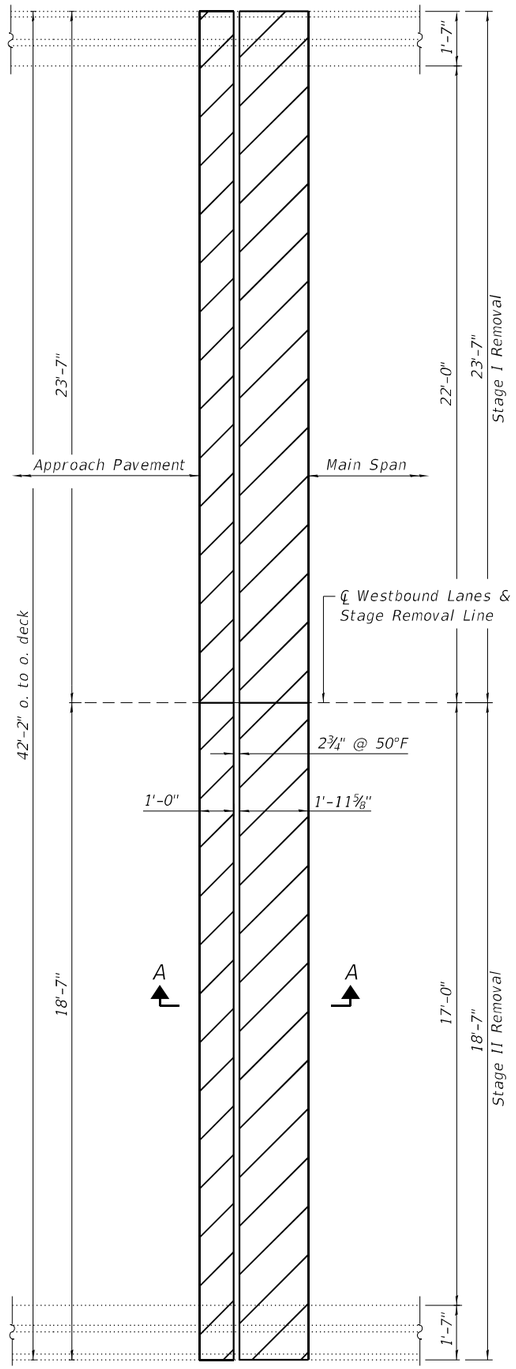
BAR d3(E) & d4(E)



BAR u(E)

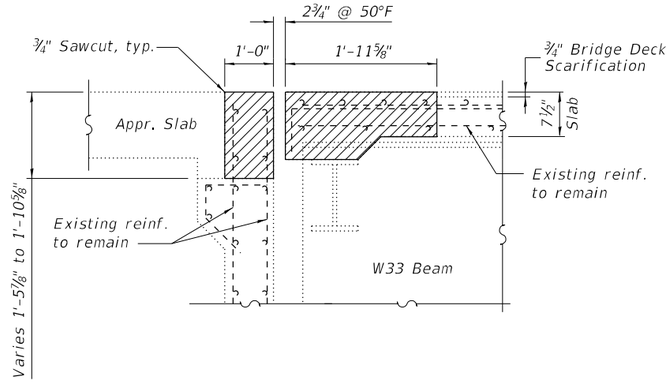
BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	16	#5	21'-0"	
a1(E)	16	#5	18'-11"	
a2(E)	4	#6	4'-0"	
a3(E)	4	#6	6'-0"	
d(E)	12	#5	3'-0"	
d1(E)	12	#5	2'-7"	
d2(E)	12	#4	3'-0"	
d3(E)	6	#4	4'-9"	
d4(E)	6	#4	4'-1"	
h(E)	12	#6	20'-2"	
h1(E)	12	#6	18'-1"	
u(E)	80	#5	2'-9"	
Concrete Removal			Cu. Yd.	12.4
Reinforcement Bars, Epoxy Coated			Pound	1,780
Concrete Superstructure			Cu. Yd.	13.7
Bar Splicers			Each	28

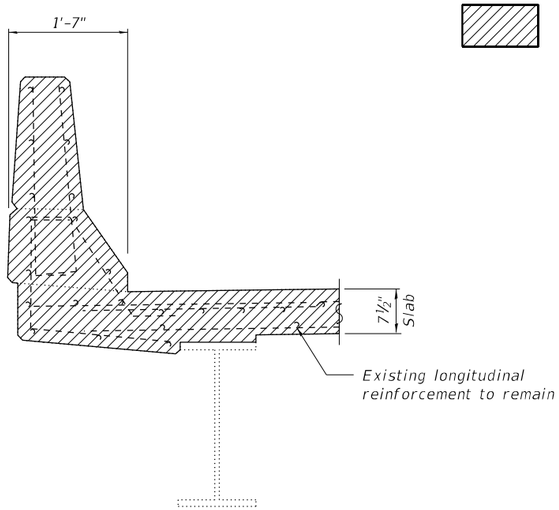


CONCRETE REMOVAL AT WEST ABUTMENT

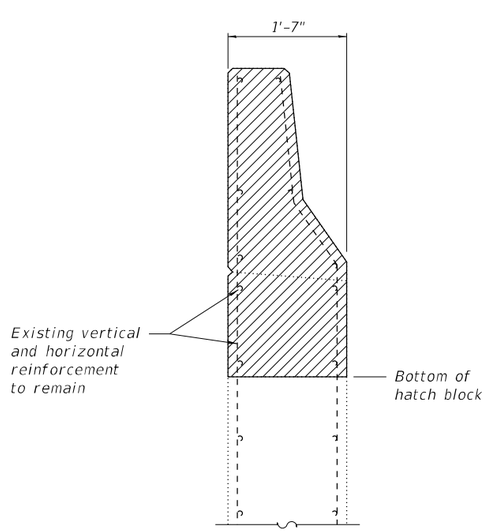
(East Abutment Similar)



SECTION A-A



SECTION THRU PARAPET



SECTION THRU WINGWALL

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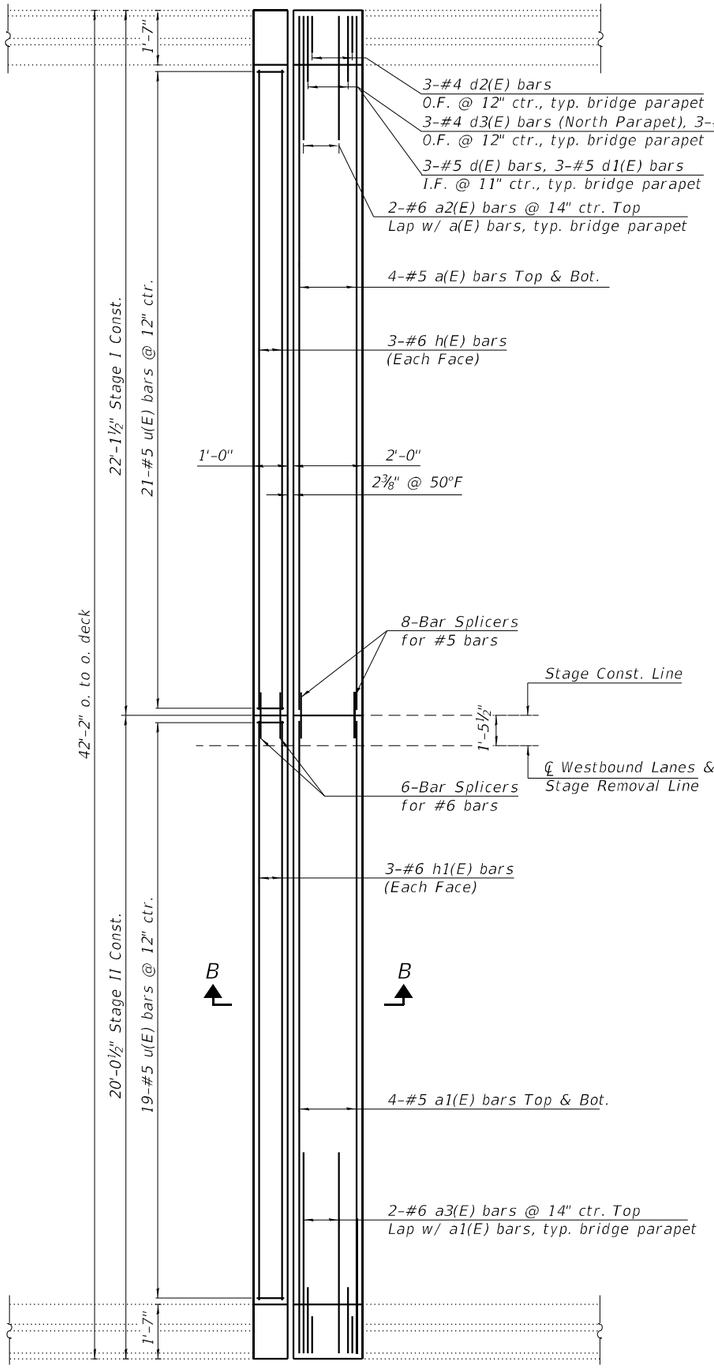
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL
STRUCTURE NO. 092-0019 (WB)

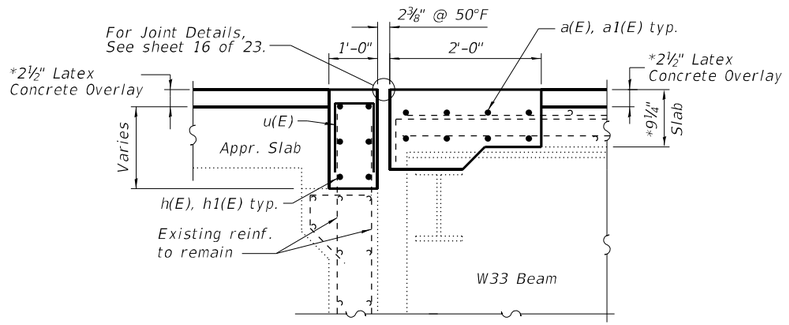
SHEET 13 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	124
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



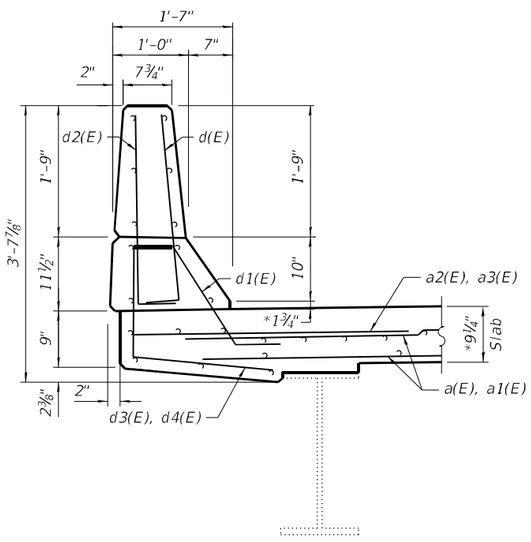
PROPOSED CONCRETE AT WEST ABUTMENT

(East Abutment Similar)

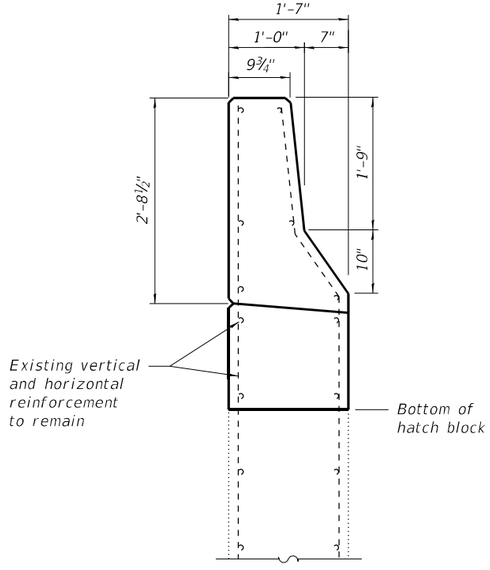


SECTION B-B

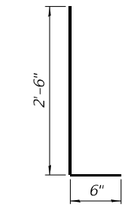
* Prior to ¼" Diamond Grinding



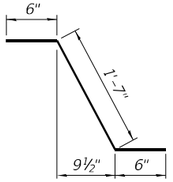
SECTION THRU PARAPET



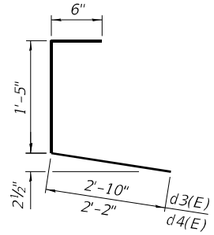
SECTION THRU WINGWALL



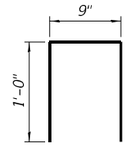
BAR d(E), d2(E)



BAR d1(E)



BAR d3(E) & d4(E)



BAR u(E)

BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	16	#5	21'-0"	
a1(E)	16	#5	18'-11"	
a2(E)	4	#6	4'-0"	
a3(E)	4	#6	6'-0"	
d(E)	12	#5	3'-0"	
d1(E)	12	#5	2'-7"	
d2(E)	12	#4	3'-0"	
d3(E)	6	#4	4'-9"	
d4(E)	6	#4	4'-1"	
h(E)	12	#6	20'-2"	
h1(E)	12	#6	18'-1"	
u(E)	80	#5	2'-9"	
Concrete Removal			Cu. Yd.	12.4
Reinforcement Bars, Epoxy Coated			Pound	1,780
Concrete Superstructure			Cu. Yd.	13.7
Bar Splicers			Each	28

MODEL: Default
FILE NAME: X:\Effingham\d721 - IDOT PTB 197-027_D5_I-74 Danville Bridges\CADD\Project_Drawings_Stony CKD\70860_014_Deck Reinforcement - WB.dgn

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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

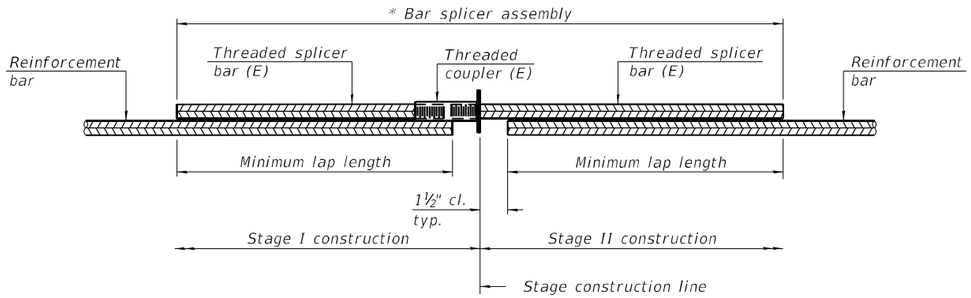
USER NAME =	DESIGNED - TAW	REVISED -	
	CHECKED - TJZ	REVISED -	
PLOT SCALE =	DRAWN - DCS	REVISED -	
PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REINFORCEMENT
STRUCTURE NO. 092-0019 (WB)

SHEET 14 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	125
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



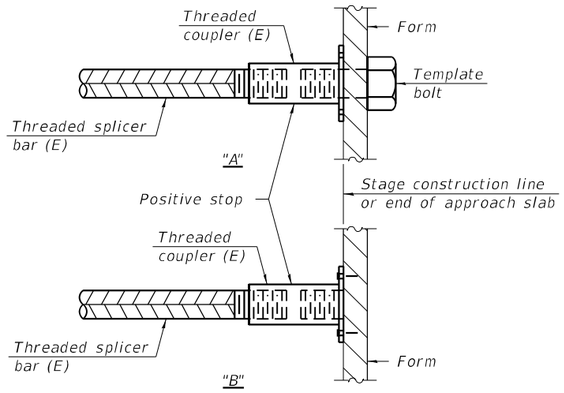
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

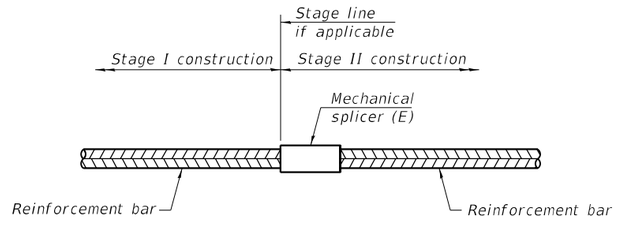
** Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.*

Location	Bar size	No. assemblies required	Minimum lap length
092-0018 Deck	#5	16	3'-6"
092-0019 Deck	#5	16	3'-6"
092-0018 Bk Wall	#6	12	4'-0"
092-0019 Bk Wall	#6	12	4'-0"



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-1-2020

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PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 15 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	126
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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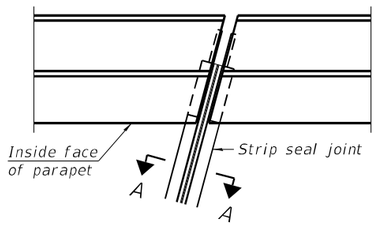
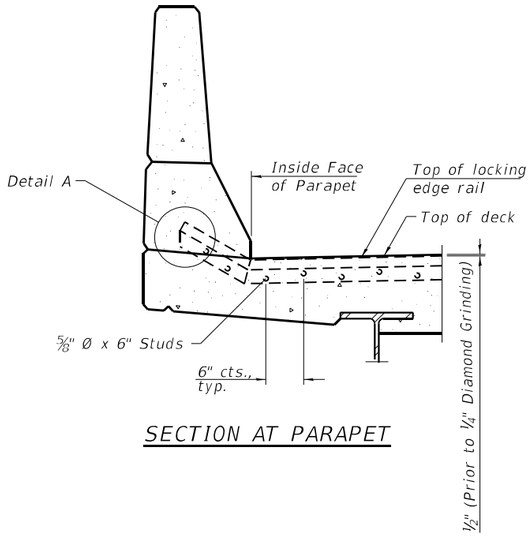
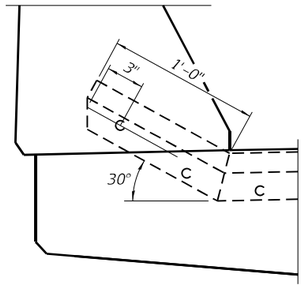


FOR SKEWS ≤ 30°

PLAN AT PARAPET



SECTION AT PARAPET



DETAIL A

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

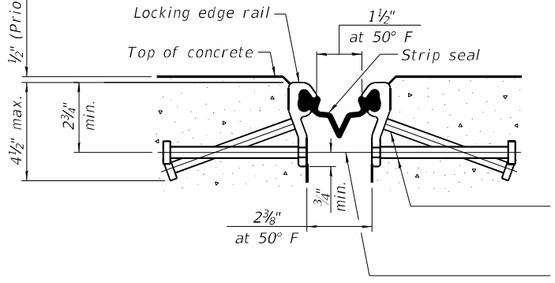
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

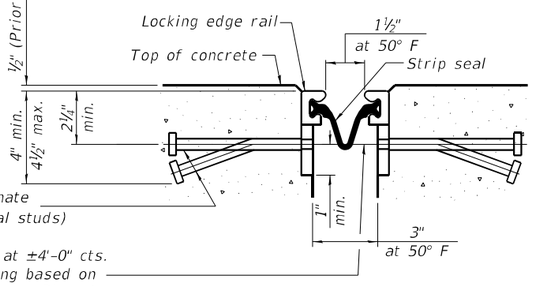
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT



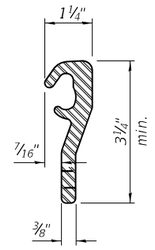
SHOWING WELDED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

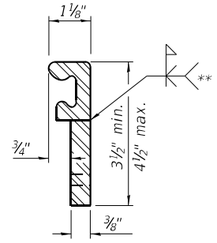
3/8" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

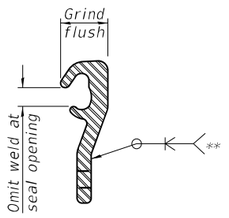
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED
(EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Preformed Joint Strip Seal	Foot	82
092-0019	Preformed Joint Strip Seal	Foot	82

MODEL: Default
FILE NAME: P:\Effingham\4721 - IDOT PTB 197-027_D5_I-74 Danville Bridges\CADD\Project_Drawings_Stony Ck\D570860_016_Preformed Joint Strip Seal.dgn

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LICENSE #184.003222

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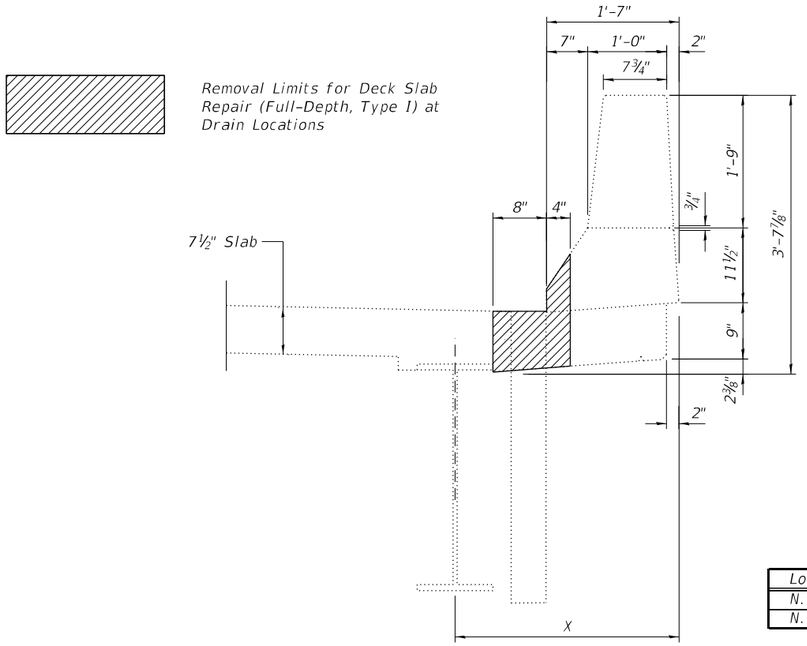
PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

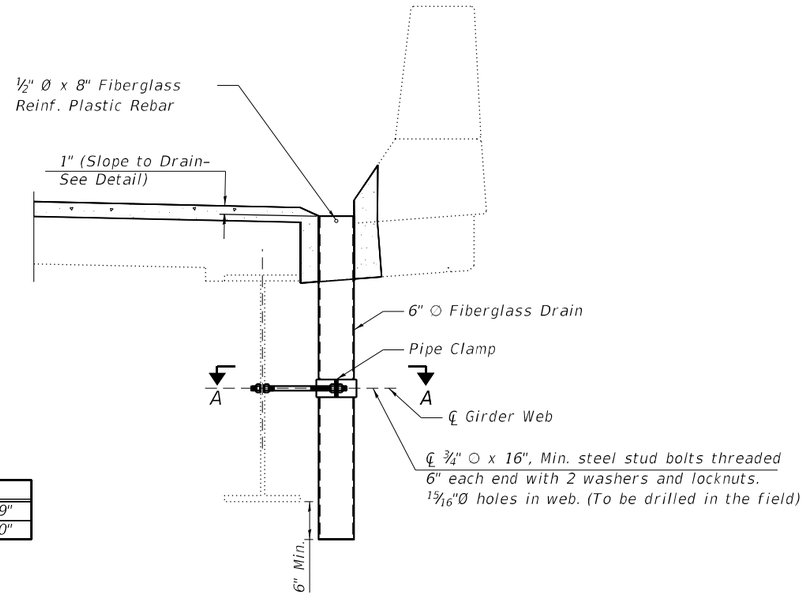
PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 16 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	127
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

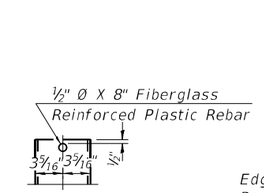


Location	X
N. Parapet EB, S. Parapet WB	2'-9"
N. Parapet WB, S. Parapet EB	3'-0"

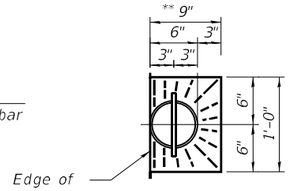
TYPICAL REMOVAL LIMITS



NEW FLOOR DRAIN INSTALLATION

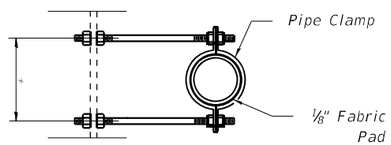


FIBERGLASS PIPE



TOP PLAN

** Slope to Drain



SECTION A-A

* Dimension as required by Pipe Clamp

Notes:

All dimensions shall be field verified by the Contractor prior to ordering of materials.

Fiberglass shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 psi minimum.

The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified.

The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating Spec. SSPC-SP1 prior to painting.

The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Floor Drains	Each	26
092-0019	Floor Drains	Each	26

Cost of removal of existing drains and extensions is included in Deck Slab Repair (Full Depth, Type I)

MODEL: Default
FILE NAME: P:\Effingham\4721 - IDOT PTB 197-027_D5_I-74 Danville Bridges\CADD\Project_Drawings_Stony Ck\D570860_017_Floor Drain Details.dgn
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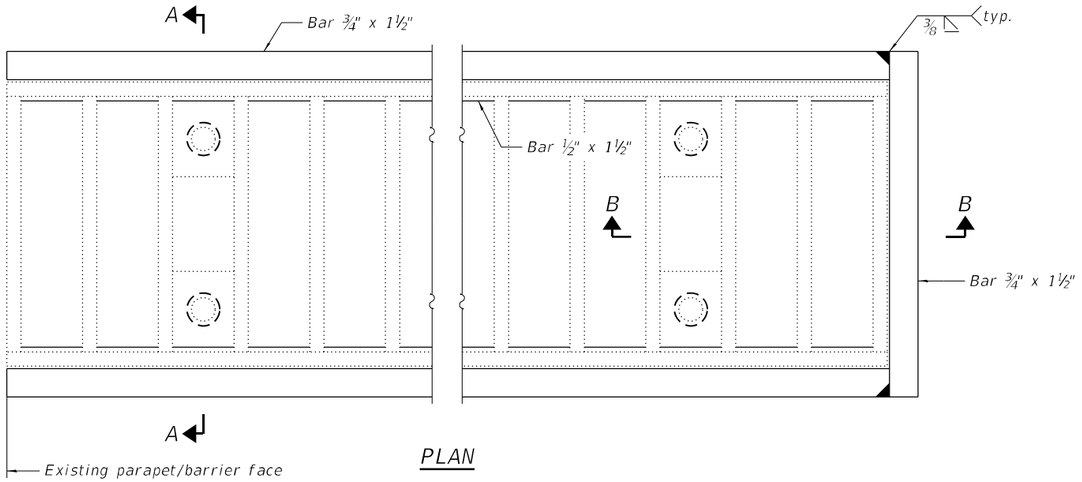
PLOT SCALE =	DRAWN - DCS	REVISED -	
PLOT DATE =	CHECKED - TJZ	REVISED -	

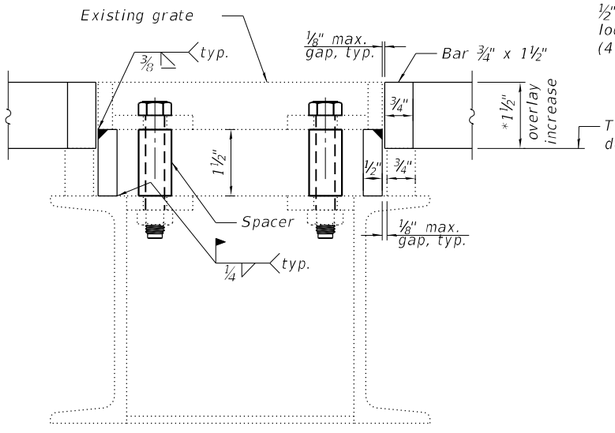
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOOR DRAIN DETAILS
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 17 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	128
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

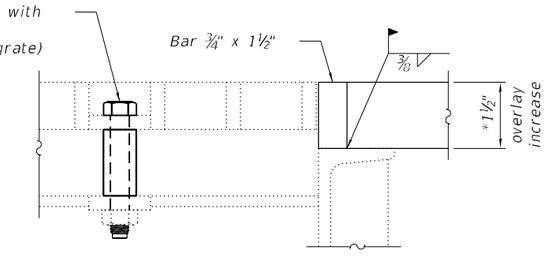


PLAN



SECTION A-A

* After ¼" Diamond Grinding



SECTION B-B

* After ¼" Diamond Grinding

Notes:

1. *Existing drainage scupper grates shall be adjusted so that the top of the existing grate is flush with the top of the bridge deck overlay after diamond grinding.*
2. *Proposed structural steel for adjusting the scupper grates shall conform to AASHTO Classification M-270 Gr. 36. All proposed components adjusting the scupper grates shall be hot dipped galvanized.*
3. *Bolts shall be ½" ∅ ASTM F3125 Grade A325 Type 1, mechanically galvanized. Spacer may be fabricated from round steel pipe.*
4. *The Contractor shall ensure that no damage is done to the existing grates to be reused.*
5. *Shop plans for the proposed scupper adjustment ring shall be submitted to the Engineer for approval prior to fabrication.*
6. *See existing scupper plans for details and dimensions not shown. The Contractor shall field verify the type of scupper present and the scupper dimensions.*
7. *Galvanizing for field welded areas shall be repaired per ASTM A 780.*
8. *Cost of all labor and materials necessary to remove existing grates, clean existing scuppers and downspouts, furnish and install scupper adjustment ring, and reinstalling the grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.*
9. *Clean existing scuppers and downspouts.*

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Drainage Scuppers to be Adjusted	Each	2
092-0019	Drainage Scuppers to be Adjusted	Each	2

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LICENSE #184.003222

USER NAME =	DESIGNED - TAW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SCUPPER ADJUSTMENT STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
	CHECKED - TJZ	REVISED -		
PLOT SCALE =	DRAWN - DCS	REVISED -		SHEET 18 OF 23 SHEETS
PLOT DATE =	CHECKED - TJZ	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	129
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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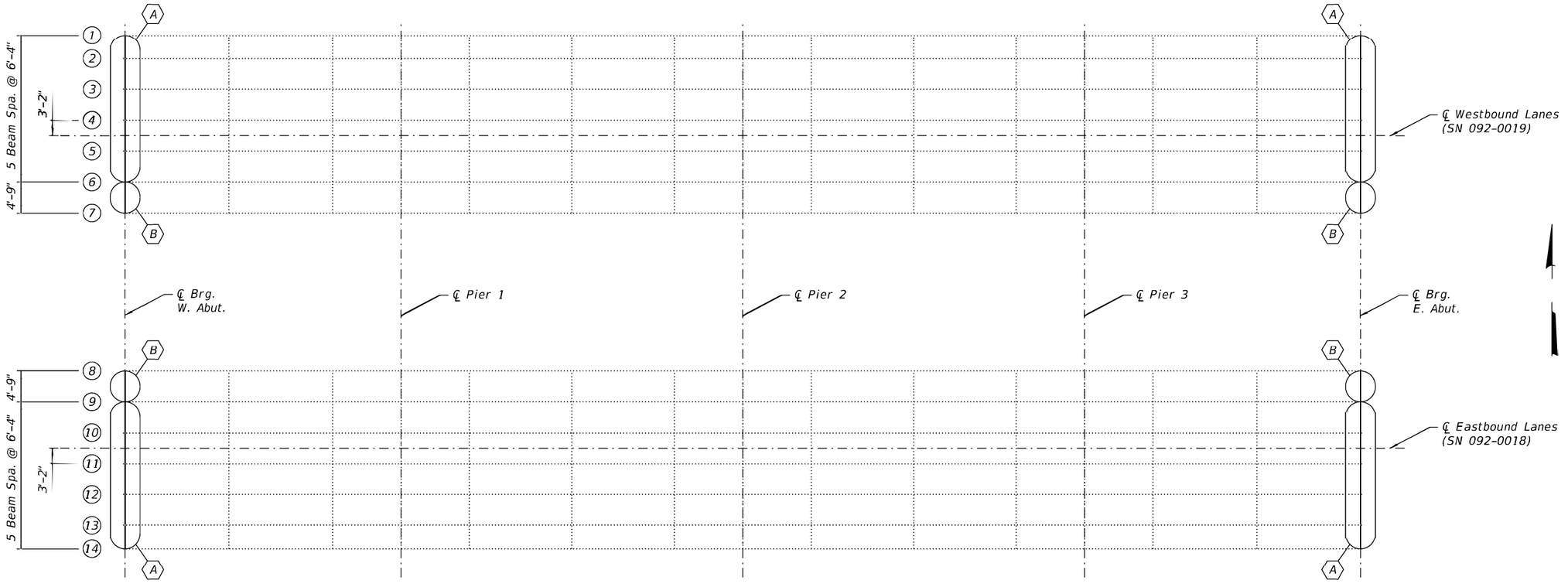
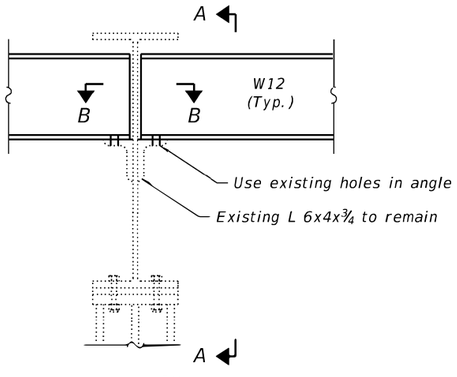


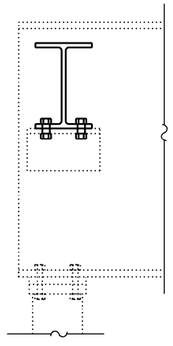
FRAMING PLAN

(A) Replace Diaphragm with W12x30

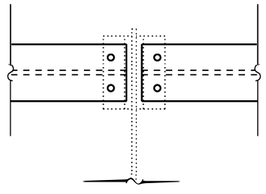
(B) Replace Diaphragm with W12x40



ELEVATION



SECTION A-A



SECTION B-B

Notes:

All structural steel shall conform to AASHTO Classification M-270 GR. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts ¾" Ø, open holes $^{13}/_{16}$" Ø, unless otherwise noted.

Diaphragm connection holes shall be $^{13}/_{16}$" Ø for ¾" Ø bolts.

Two hardened washers shall be required at diaphragm connections.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Furnishing and Erecting Structural Steel	Pound	2,290
	Structural Steel Removal	Pound	2,100
092-0019	Furnishing and Erecting Structural Steel	Pound	2,290
	Structural Steel Removal	Pound	2,100

MODEL: Default
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CIVIL DESIGN, INC.
WBE / DBE
EFFINGHAM, IL
LICENSE #184.003222

USER NAME =	DESIGNED - TAW	REVISED -	
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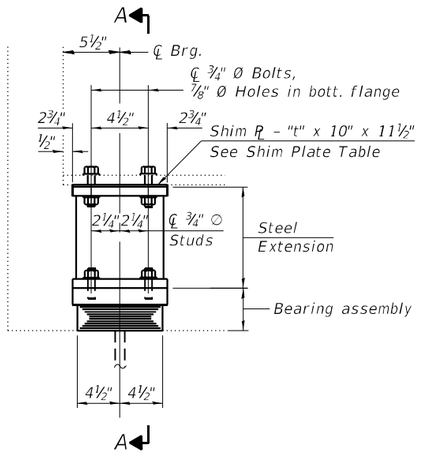
PLOT SCALE =	DRAWN - DCS	REVISED -	
PLOT DATE =	CHECKED - TJZ	REVISED -	

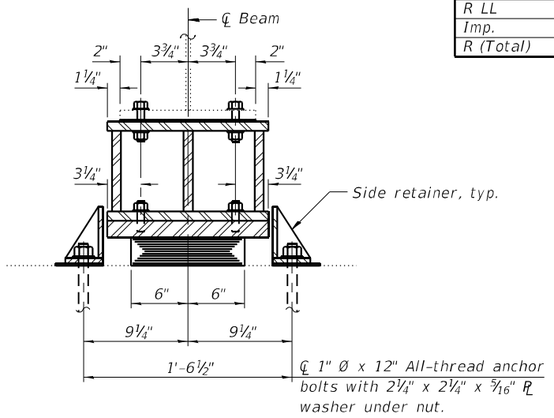
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM REPLACEMENT
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 19 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	130
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



ELEVATION AT ABUT.



SECTION A-A

BEAM REACTIONS

R DL	(K)	22.2
R LL	(K)	33.7
Imp.	(K)	9.3
R (Total)	(K)	65.2

SHIM PLATE TABLES

West Abutment	
Beam	Thickness "t"
1	1 3/16"
2	1 1/8"
3	2"
4	2"
5	1 1/8"
6	1 3/16"
9	1 3/16"
10	1 1/8"
11	2"
12	2"
13	1 1/8"
14	1 3/16"

East Abutment	
Beam	Thickness "t"
1	1 1/4"
2	1 3/16"
3	2 1/16"
4	2 1/16"
5	1 3/16"
6	1 1/4"
9	1 1/4"
10	1 3/16"
11	2 1/16"
12	2 1/16"
13	1 3/16"
14	1 1/4"

Notes:

New steel extensions, shim plates and connection bolts shall be included with Furnishing and Erecting Structural Steel.

All new steel extensions, bearing plates, side retainers, anchor bolts, nuts, and washers shall be hot-dipped galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel." Mask surface of plate to be bonded to elastomer and paint masked surface.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 33 Tons

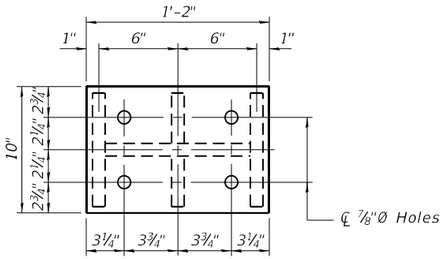
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

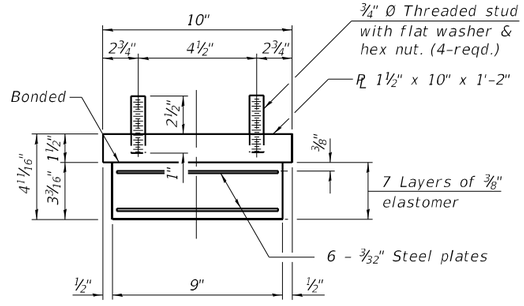
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

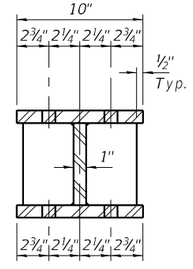
TYPE I ELASTOMERIC EXP. BRG.



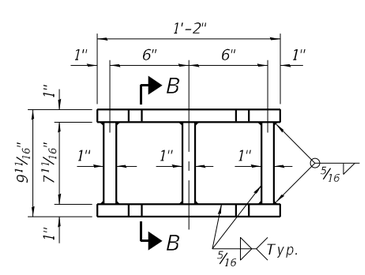
PLAN TOP AND BOTTOM PLATE



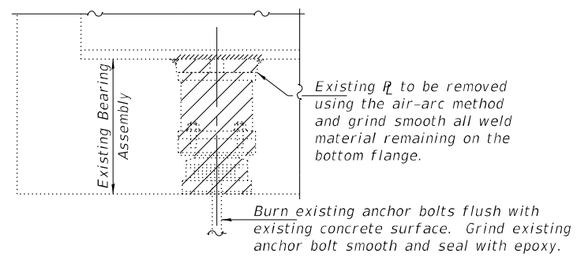
BEARING ASSEMBLY



SECTION B-B



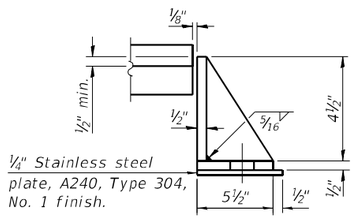
STEEL EXTENSION DETAIL

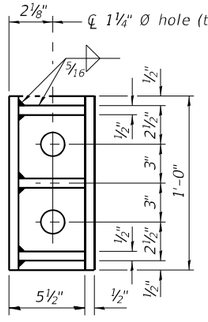


EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

Note:
Shim plates shall not be placed under bearing assembly.



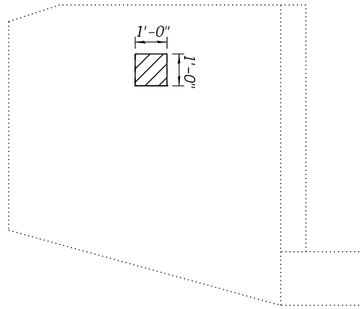


SIDE RETAINER

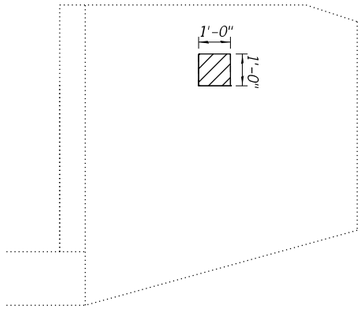
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Elastomeric Bearing Assembly Type I	Each	14
	Jack and Remove Existing Bearings	Each	14
	Furnishing and Erecting Structural Steel	Pound	2,910
	Anchor Bolts, 1" ∅	Each	56
092-0019	Elastomeric Bearing Assembly Type I	Each	14
	Jack and Remove Existing Bearings	Each	14
	Furnishing and Erecting Structural Steel	Pound	2,910
	Anchor Bolts, 1" ∅	Each	56

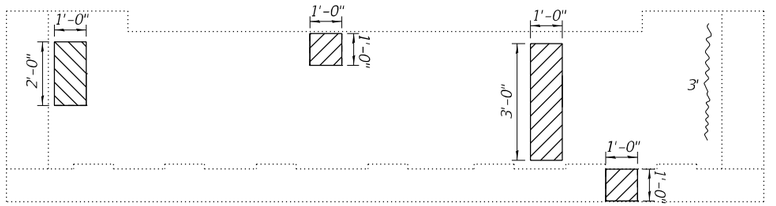


SOUTHWEST WINGWALL ELEVATION



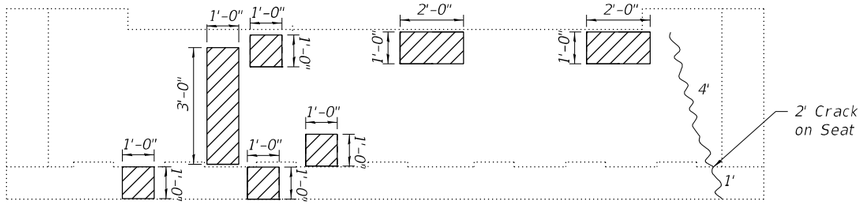
NORTHWEST WINGWALL ELEVATION

SN 092-0018 (EB)



WEST ABUTMENT ELEVATION
SN 092-0019 (WB)

(Looking West)



EAST ABUTMENT ELEVATION
SN 092-0019 (WB)

(Looking East)

SUBSTRUCTURE REPAIR PLAN

Substructure Repair (Less than 5")

Epoxy Crack Injection

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0018	Structural Repair of Concrete < 5"	Sq. Ft.	2
092-0019	Structural Repair of Concrete < 5"	Sq. Ft.	18
092-0019	Epoxy Crack Injection	Feet	10

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	CHECKED - TJZ	REVISED -		
PLOT SCALE =	DRAWN - DCS	REVISED -		
PLOT DATE =	CHECKED - TJZ	REVISED -		SHEET 21 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	132
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

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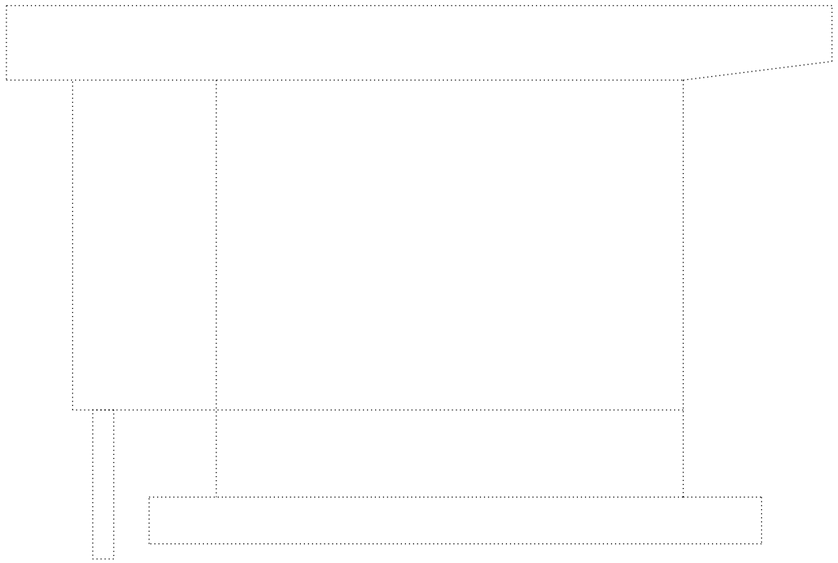
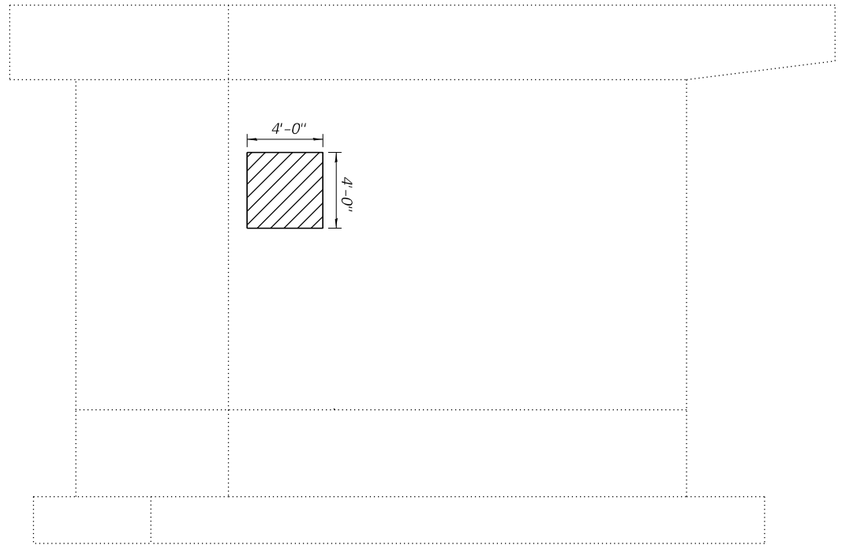


PIER 1 ELEVATION
SN 092-0019 (WB)

(Looking East)



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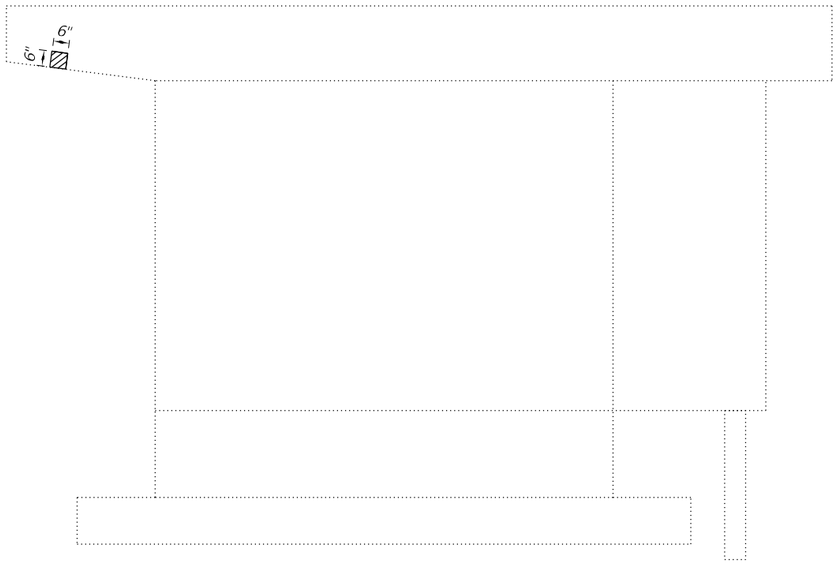
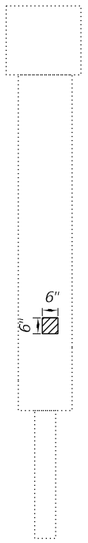


PIER 1 ELEVATION
SN 092-0019 (WB)

(Looking West)



PIER 1 END ELEVATION
SN 092-0019 (WB)

(Looking North)

SUBSTRUCTURE REPAIR PLAN

Substructure Repair (Less than 5")

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0019	Structural Repair of Concrete < 5"	Sq. Ft.	17

MODEL: Default
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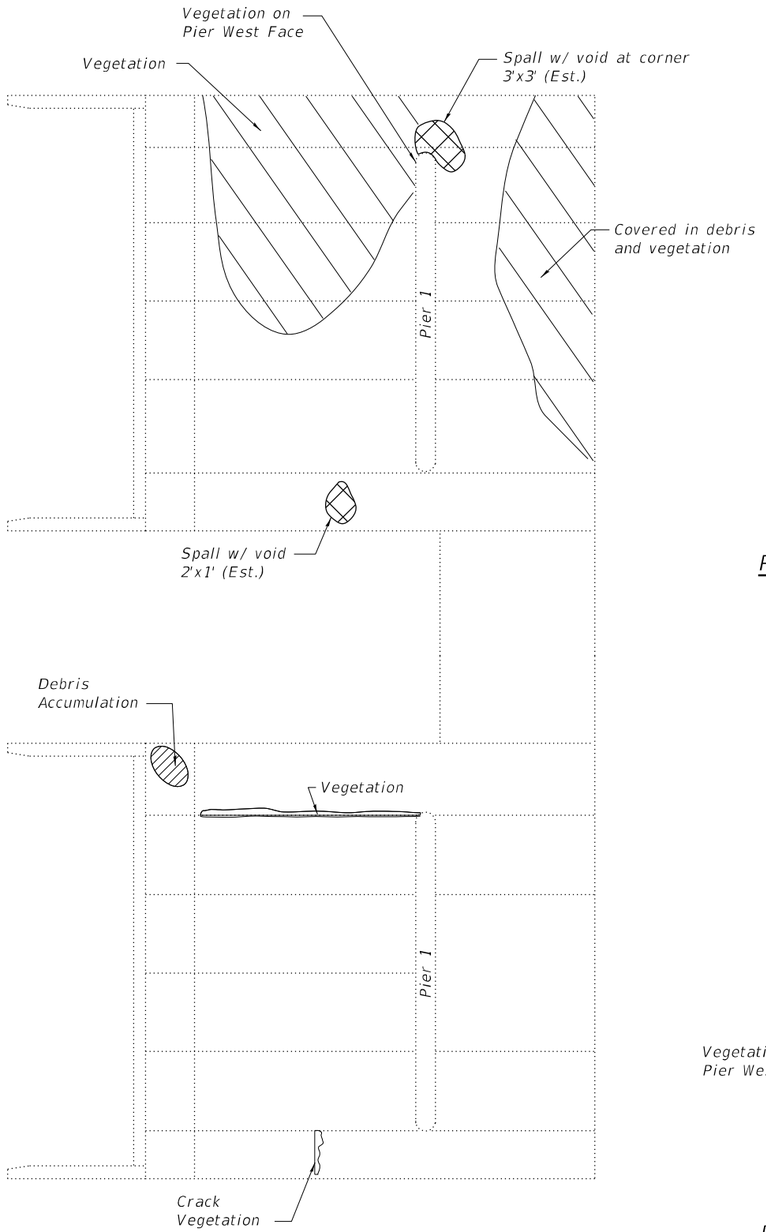
PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

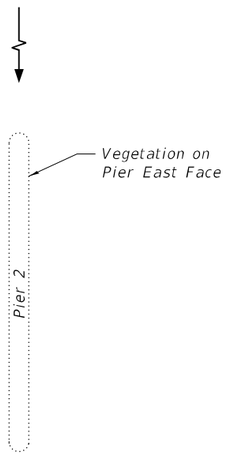
SUBSTRUCTURE REPAIR
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)

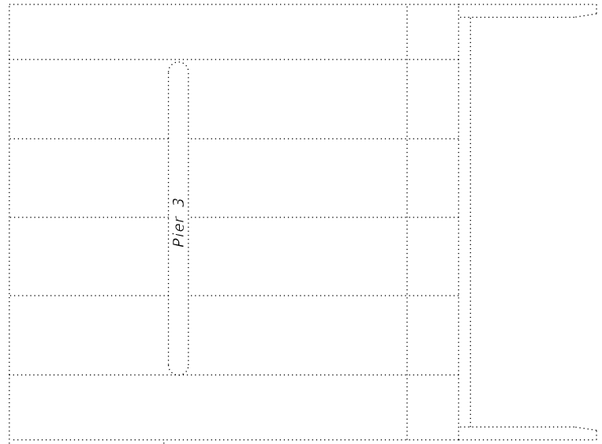
SHEET 22 OF 23 SHEETS

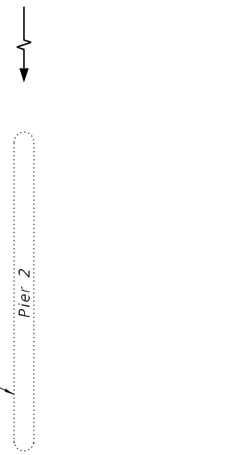
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	133
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



PLAN – SN 092-0019 (WB)







PLAN – SN 092-0018 (EB)

SUBSTRUCTURE REPAIR PLAN

Slope Wall Slurry Pumping

BILL OF MATERIAL

Structure	Item	Unit	Total
092-0019	Slope Wall Slurry Pumping	Cu. Yd.	8.0
	Clearing and Grubbing	L Sum	1

MODEL: Default
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LICENSE #184.003222

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PLOT SCALE =	DRAWN - DCS	REVISED -	
PLOT DATE =	CHECKED - TJZ	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPEWALL REPAIR
STRUCTURE NO. 092-0018 (EB) & 092-0019 (WB)
SHEET 23 OF 23 SHEETS

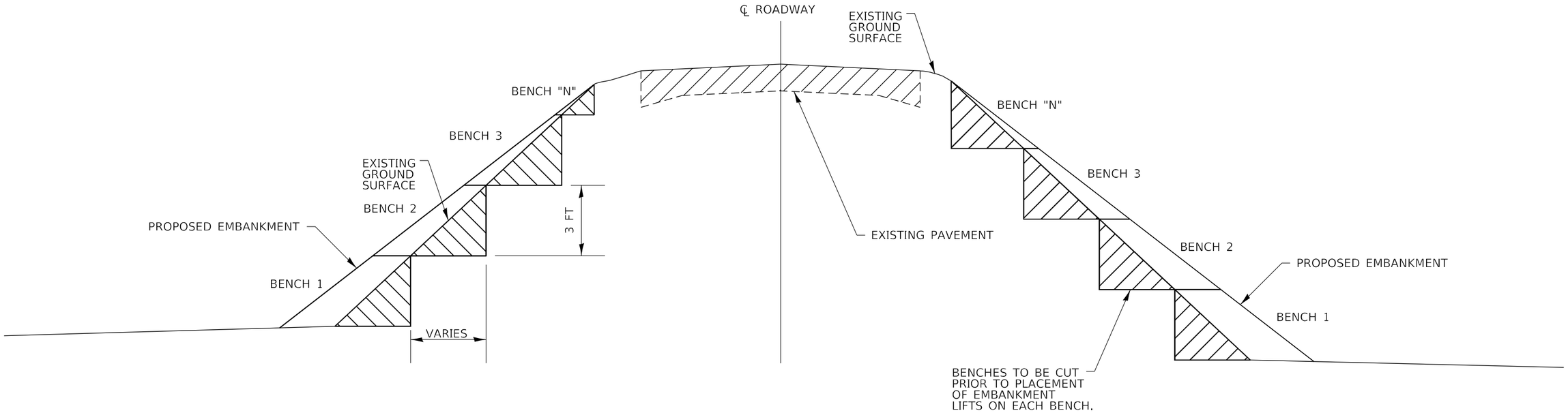
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	134
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

NOTES:
COST OF SOIL BENCHING INCIDENTAL TO CONTRACT.

EMBANKMENT SHALL BE BROUGHT UP BY STAGE ALONG WITH THE BENCHING AND COMPACTED PARALLEL TO THE BENCHES.

THE TOP 12" ± OF I-74 AND SURROUNDING AREA ARE ORGANIC/TOPSOIL AND IT IS RECOMMENDED TO BE SET ASIDE AND PLACED ON TOP OF THE SLOPES RATHER THAN INCORPORATED INTO THE INTERIOR OF THE SLOPES.

THE MOISTURE CONTENT OF THE MATERIAL IS HIGHER THAN OPTIMUM AND WILL NEED DRIED BY SPREADING AND DISKING PRIOR TO USE.



EXISTING SLOPE SOIL BENCHING DETAIL

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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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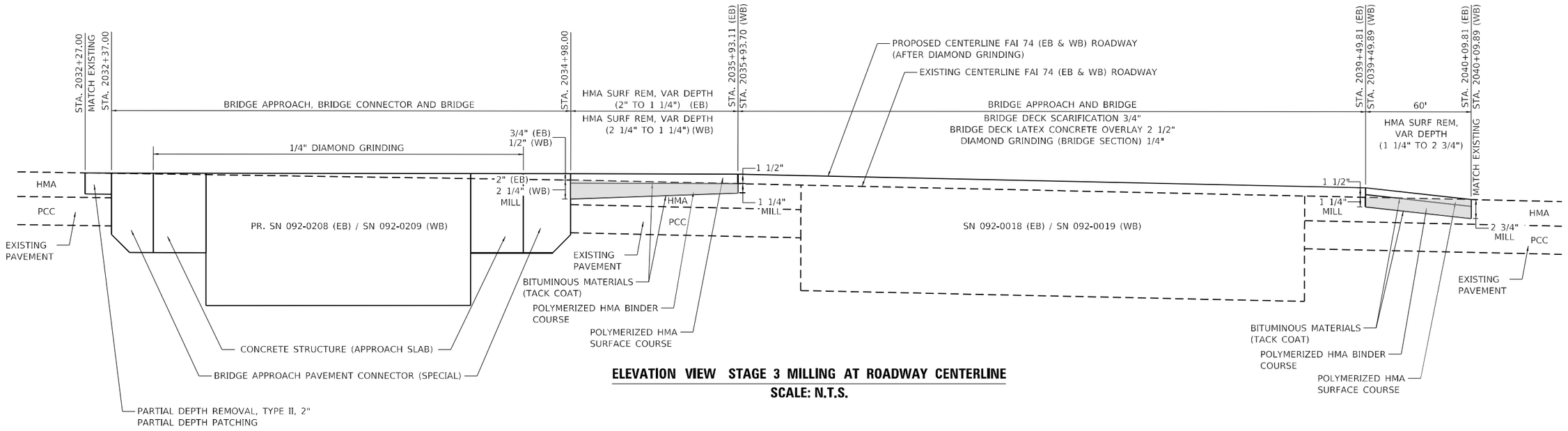
MISCELLANEOUS DETAILS
SOIL BENCHING

SCALE: N.T.S. | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	135
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

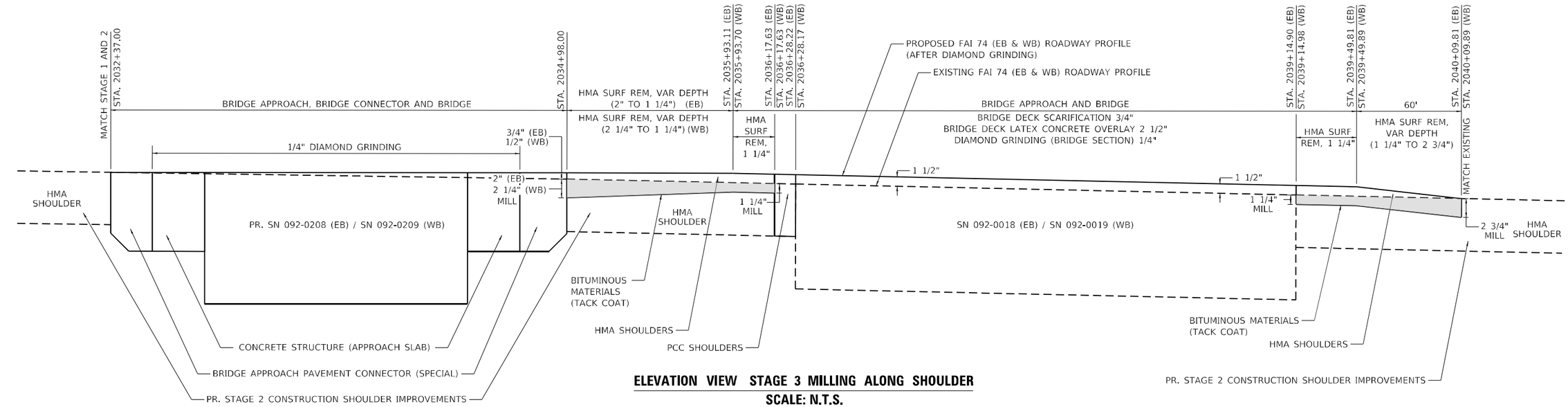


ELEVATION VIEW STAGE 3 MILLING AT ROADWAY CENTERLINE

SCALE: N.T.S.

LEGEND

HMA SURFACE REMOVAL



ELEVATION VIEW STAGE 3 MILLING ALONG SHOULDER

SCALE: N.T.S.

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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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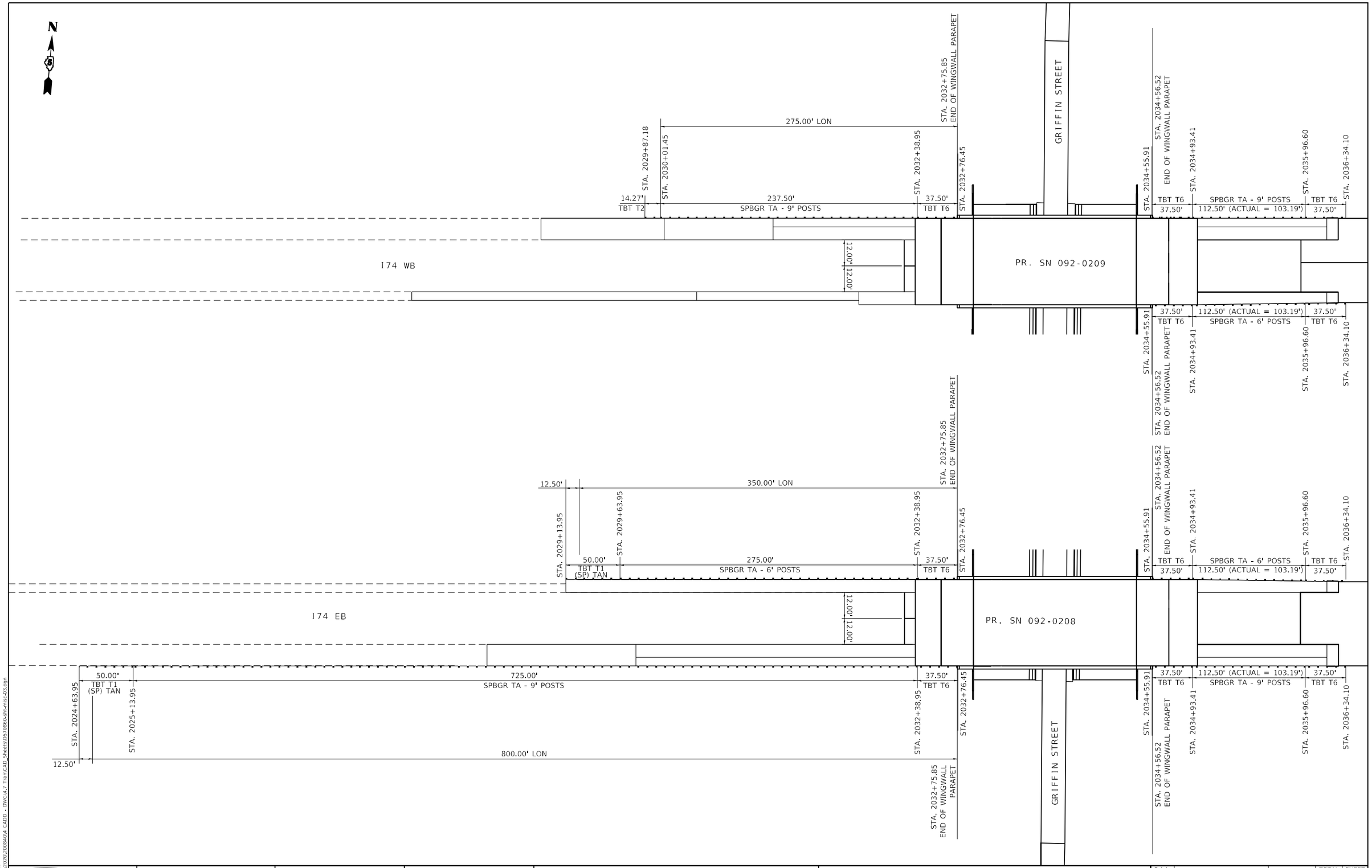
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

MISCELLANEOUS DETAILS
I–74 STAGE 3 MILLING

SCALE: N.T.S. | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	136
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



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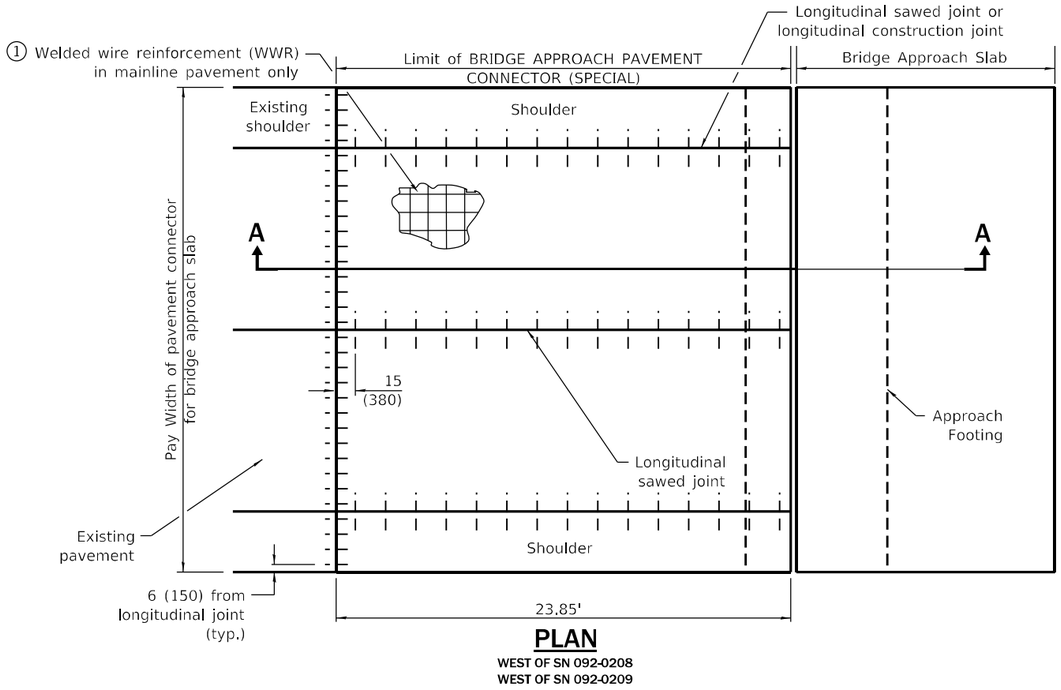
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

MISCELLANEOUS DETAILS
GUARDRAIL LENGTH OF NEED

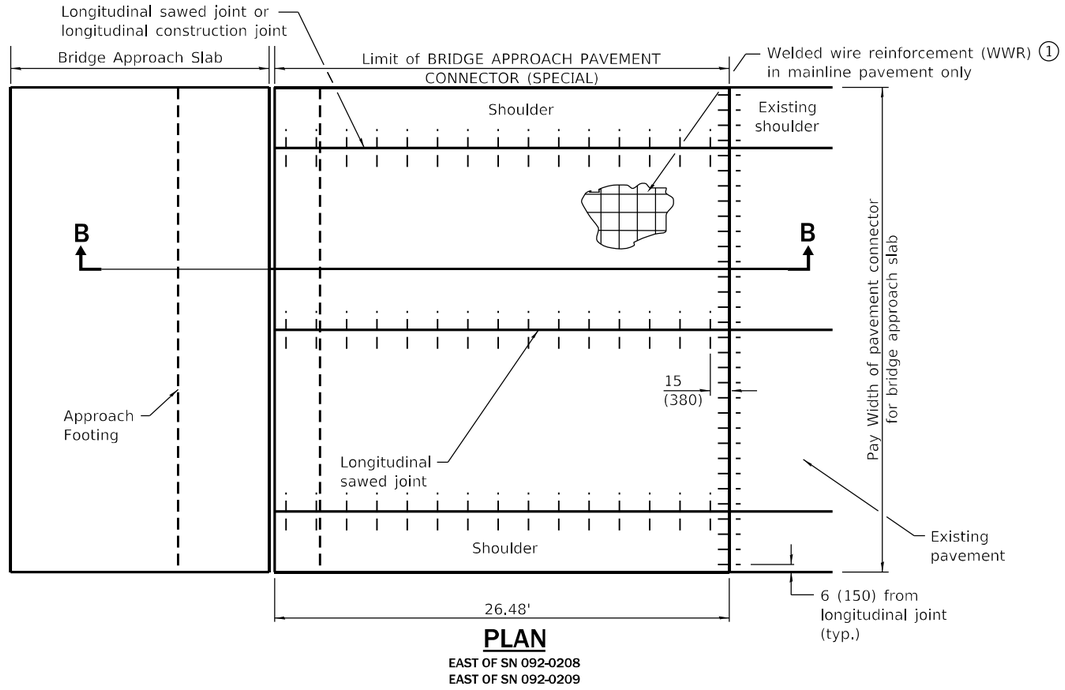
SCALE: N.T.S. | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	137
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



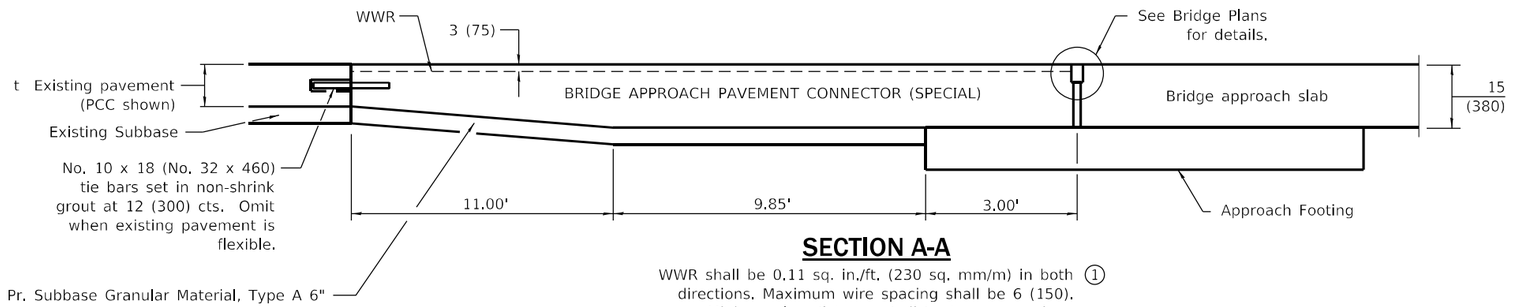
PLAN

WEST OF SN 092-0208
WEST OF SN 092-0209



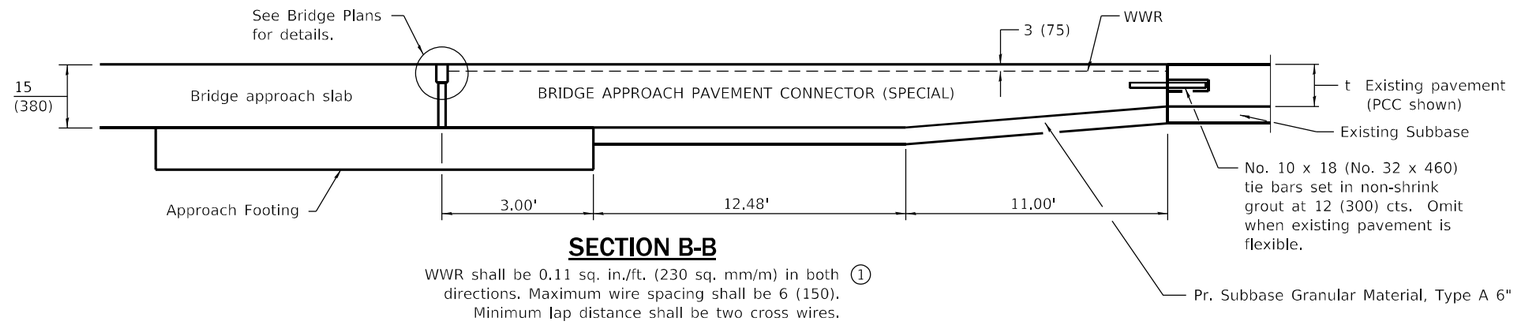
PLAN

EAST OF SN 092-0208
EAST OF SN 092-0209



SECTION A-A

WWR shall be 0.11 sq. in./ft. (230 sq. mm/m) in both ① directions. Maximum wire spacing shall be 6 (150). Minimum lap distance shall be two cross wires.



SECTION B-B

WWR shall be 0.11 sq. in./ft. (230 sq. mm/m) in both ① directions. Maximum wire spacing shall be 6 (150). Minimum lap distance shall be two cross wires.

GENERAL NOTES

THICKNESS-"t"=Thickness of Pavement.

See Standard 420001 for pavement joint details not shown.

See Standard 610001 for shoulder inlet with curb when required.

See plans for details of bridge approach slab, approach footing and joint treatment.

All dimensions are in inches (millimeters) unless otherwise shown.

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
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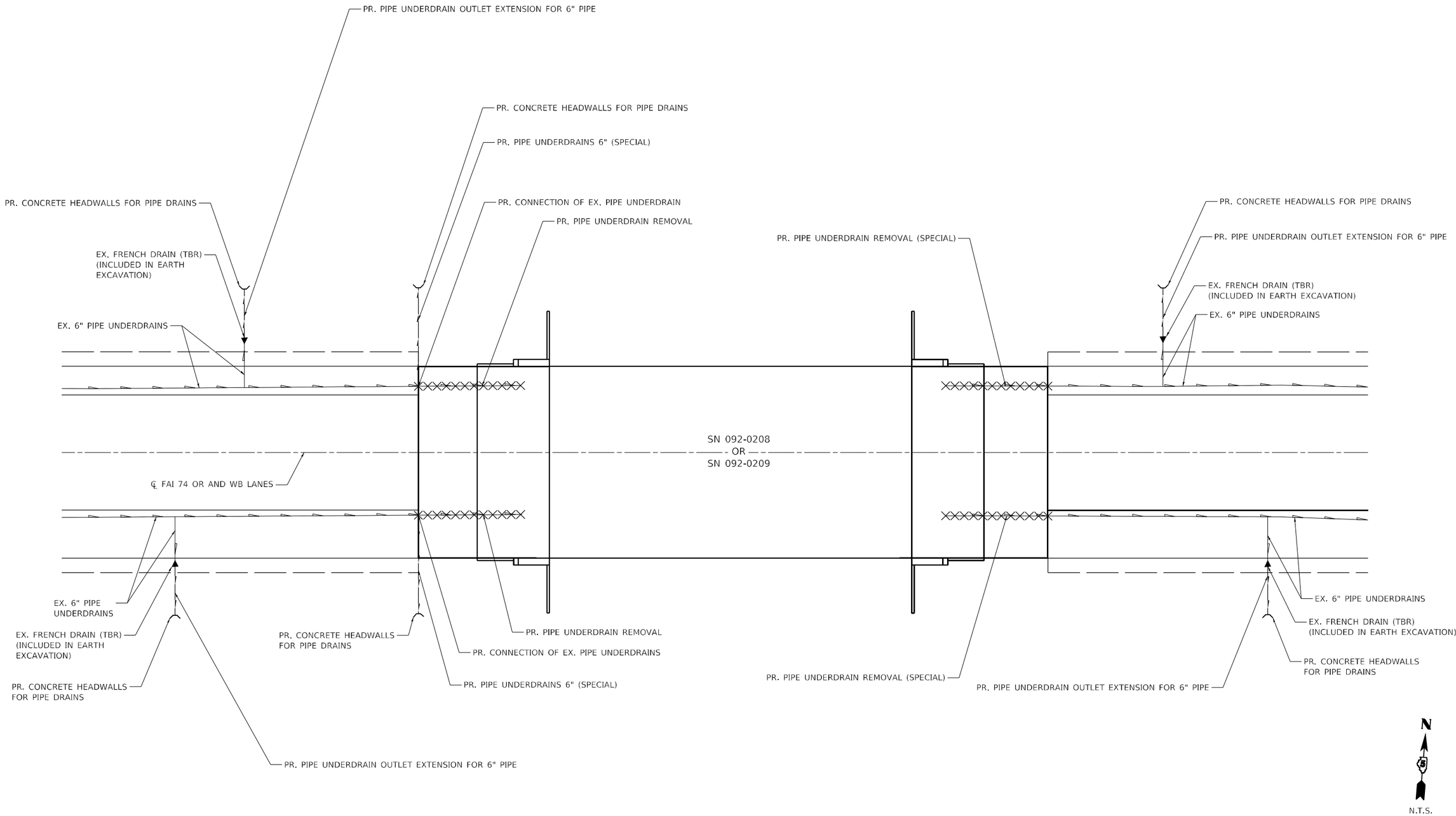
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)

SCALE: N.T.S. | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	138
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



NOTES:
1. SEE SPECIAL PROVISIONS.

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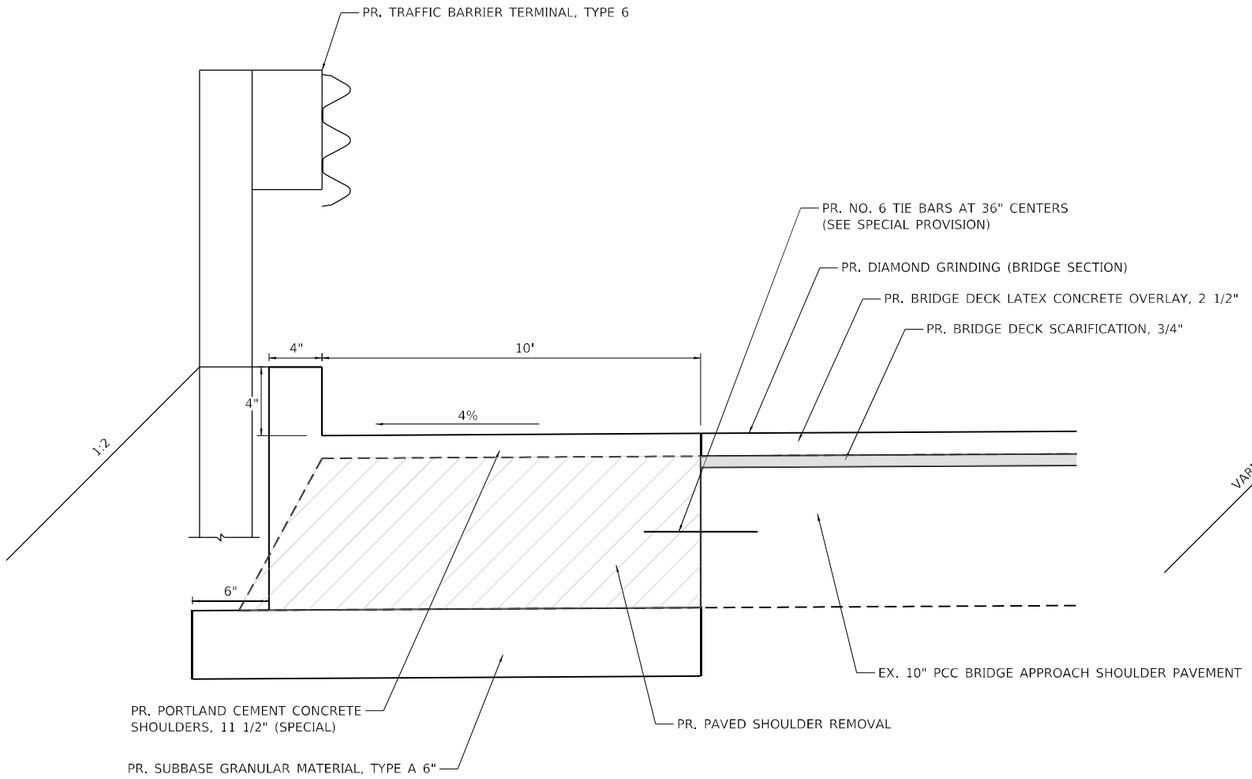
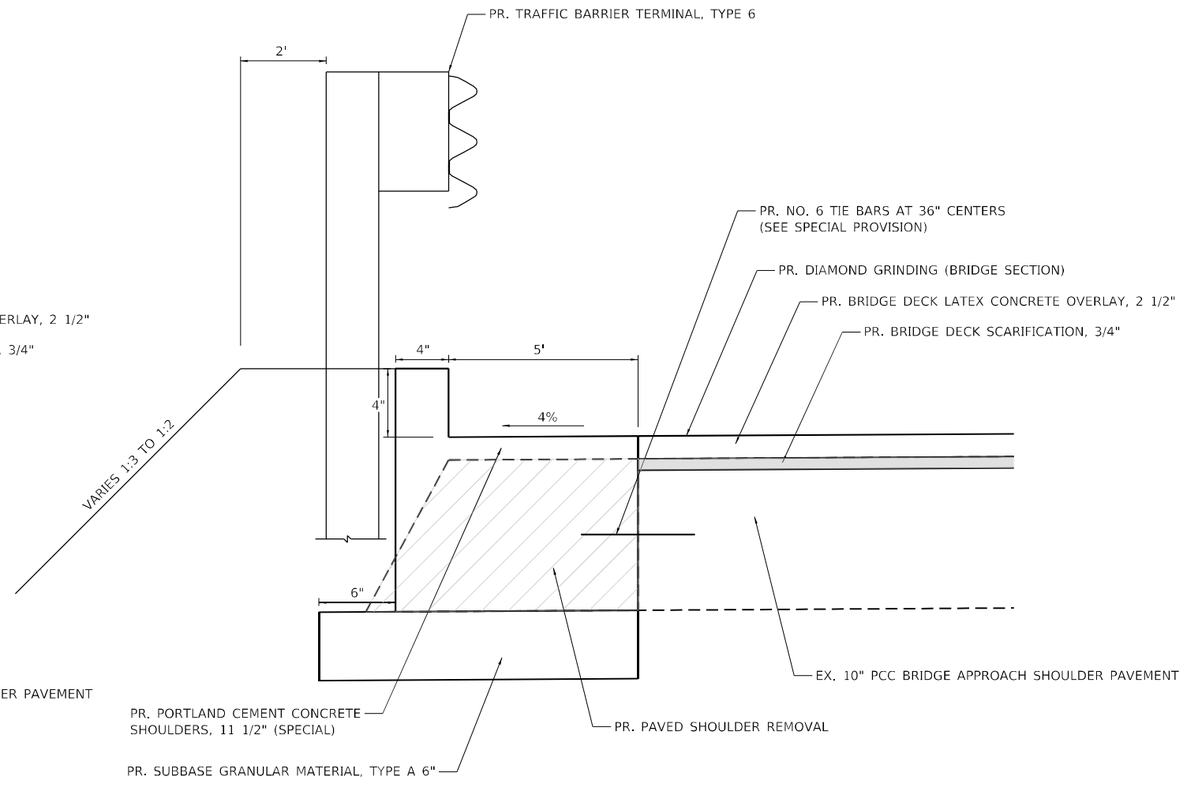
TWM ENGINEERING & GEOSPATIAL SERVICES — TWM, INC. WWW.TWM-INC.COM — IL DESIGN FIRM LICENSE NO. 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS PIPE UNDERDRAINS
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: N.T.S. | SHEET 5 OF 6 SHEETS | STA. | TO STA.
	PLOT DATE = 4/27/2023	DATE -	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	139
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE SHOULDER (EB /WB)



INSIDE SHOULDER (EB /WB)

NOTES:
THE PROPOSED CURB WILL VARY IN HEIGHT AND WIDTH TO MATCH THE EXISTING BRIDGE APPROACH SHOULDER PAVEMENT CURB. THIS TRANSITION SHALL BE CONSTRUCTED IN 2 FEET.

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TWM ENGINEERING GEOSPATIAL SERVICES TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS PCC SHOULDER 11 1/2" (SPECIAL)
		DRAWN -	REVISED -		
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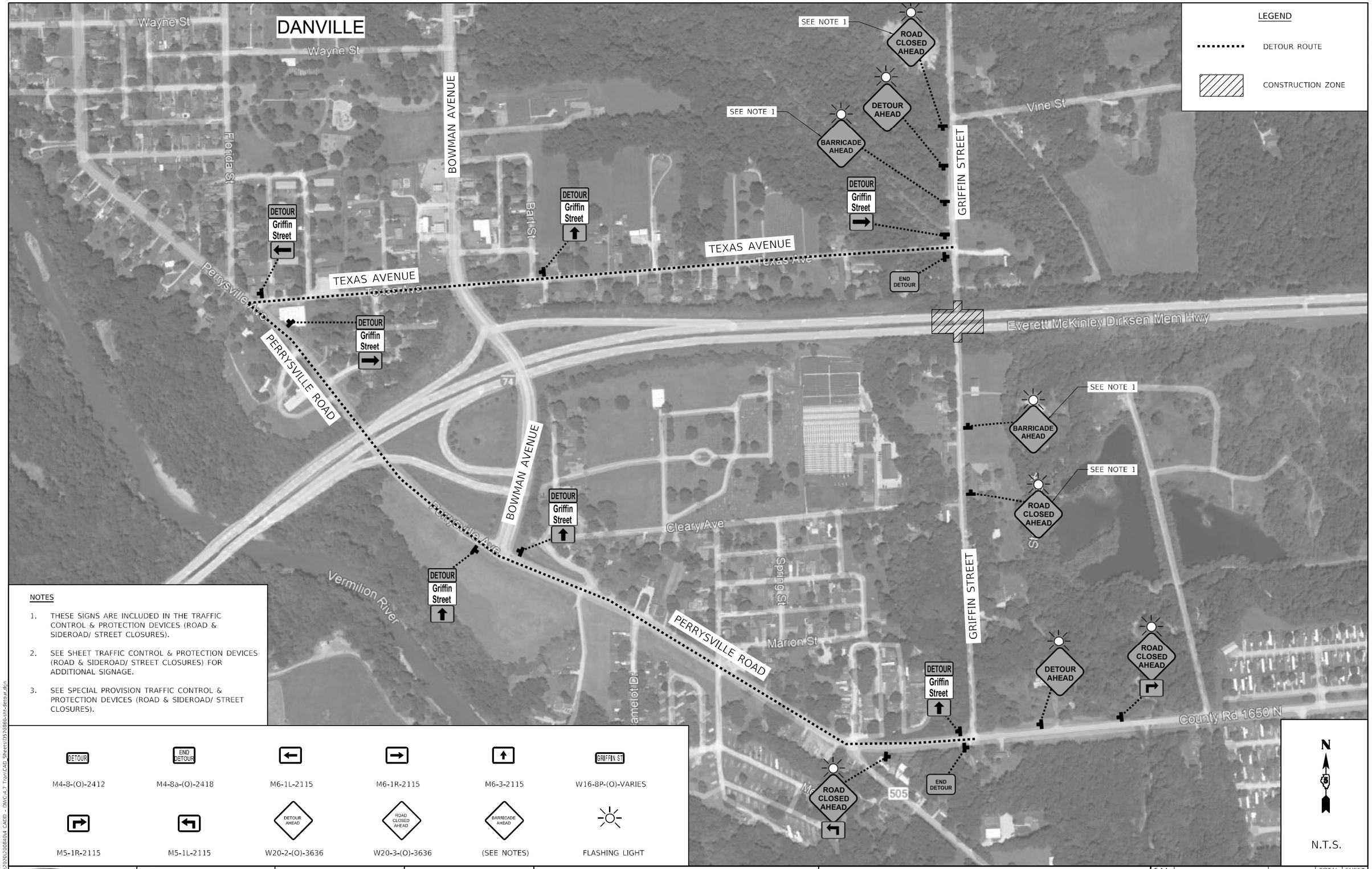
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	140
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. THESE SIGNS ARE INCLUDED IN THE TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/ STREET CLOSURES).
2. SEE SHEET TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/ STREET CLOSURES) FOR ADDITIONAL SIGNAGE.
3. SEE SPECIAL PROVISION TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/ STREET CLOSURES).

DETOUR	END DETOUR				GRIFFIN ST
M4-8-(O)-2412	M4-8a-(O)-2418	M6-1L-2115	M6-1R-2115	M6-3-2115	W16-8P-(O)-VARIES
M5-1R-2115	M5-1L-2115	W20-2-(O)-3636	W20-3-(O)-3636	(SEE NOTES)	FLASHING LIGHT

N.T.S.

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PLOT DATE = 6/22/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE
GRIFFIN STREET

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	140a
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

N

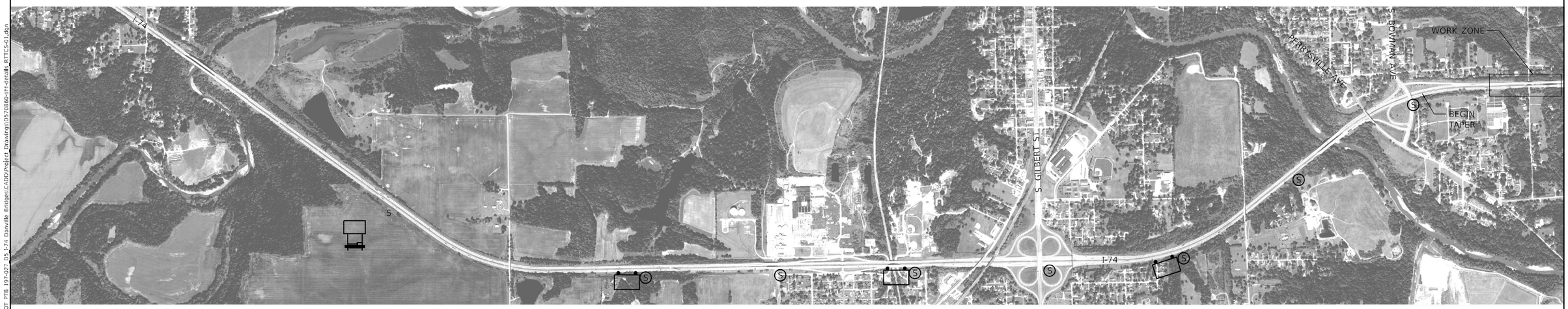
1. THE NUMBER OF REAL-TIME TRAFFIC CONTROL WARNING SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF REAL-TIME TRAFFIC CONTROL STATIC WARNING SIGNS IS INCLUDED IN THE REAL-TIME TRAFFIC CONTROL PAY ITEMS.
2. REAL-TIME TRAFFIC CONTROL MONITORING SENSOR UNITS SPACE APPROXIMATELY EVERY ½ MILE AND REAL-TIME TRAFFIC CONTROL WARNING SIGNS SPACED EVERY 1 MILE OR AS DIRECTED BY THE ENGINEER.
3. THE FIRST REAL-TIME TRAFFIC MONITORING SENSOR UNIT IS TO BE PLACED 250 FEET UPSTREAM OF THE TAPER.
4. THE SECOND REAL-TIME SPEED TRAFFIC MONITORING SENSOR UNIT IS TO BE PLACED 250 FEET IN ADVANCE OF THE RIGHT LANE/LEFT LANE CLOSED ½ MILE SIGN. (STD. 7014001).
5. THE FIRST REAL-TIME TRAFFIC CONTROL WARNINGS SIGN SHOULD BE PLACED 500 FEET IN ADVANCE OF THE RIGHT/LEFT LANE CLOSED 1 MILE SIGN (ST. 701400)
6. SEE TEMPORARY RUMBLE STRIPS (SPECIAL) DETAIL

LEGEND

REAL-TIME TRAFFIC CONTROL WARNING SIGN
48" X 96" (1200MM X 2400MM) WARNING SIGN THAT SAYS "STOPPED TRAFFIC NEXT MILE WHEN FLASHING"

SINGLE PORTABLE CHANGEABLE MESSAGE SIGN 1 MILE IN ADVANCE OF 4TH RTTCS BOARD. IT SHALL READ "RIGHT/LEFT LANE CLOSED 5 MILES AHEAD" THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400

(S) REAL-TIME TRAFFIC CONTROL SENSOR UNIT



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EFFINGHAM, IL
LICENSE #184.003222

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	DRAWN - LS	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED - RLH	REVISED -	
PLOT DATE = 4/24/2023	DATE -	REVISED -	

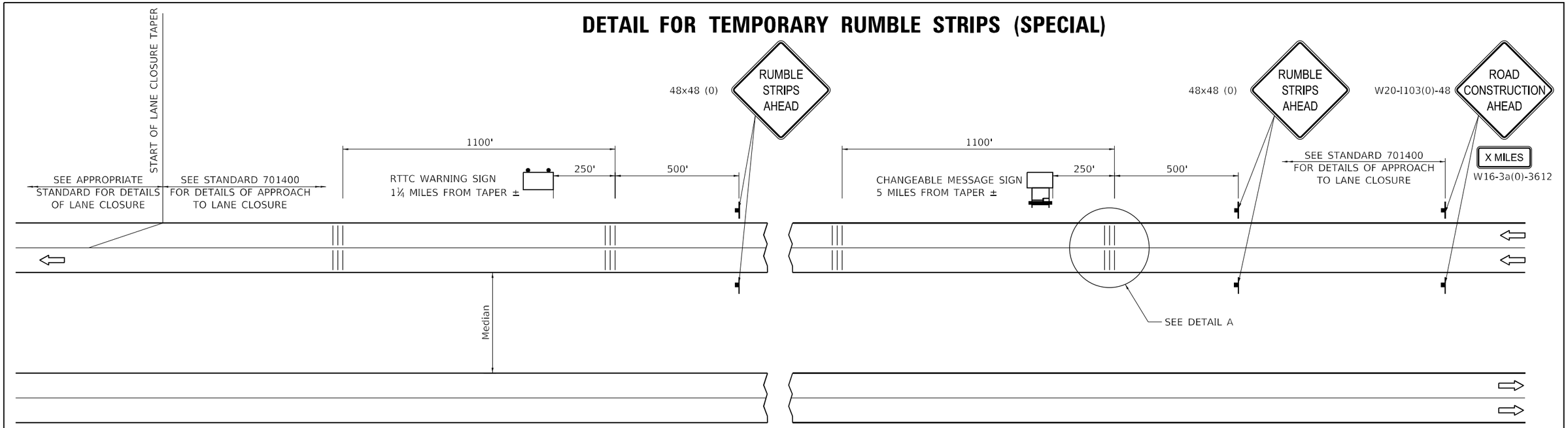
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REAL-TIME TRAFFIC CONTROL SYSTEM
PLAN SHEET

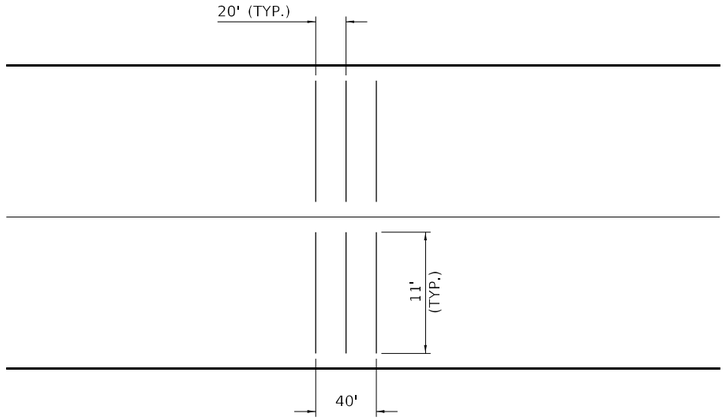
SCALE: N.T.S | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	141
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



DETAIL A



SYMBOLS

SIGN

TEMPORARY RUMBLE STRIPS (SPECIAL)

TRAILER MOUNTED SIGN

RTTC WARNING SIGN

GENERAL NOTES

REMOVE THE TEMPORARY RUMBLE STRIPS (SPECIAL) PRIOR TO THE REMOVAL OF THE ADVANCED WARNING SIGNS.

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EFFINGHAM, IL
LICENSE #184.003222

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	DRAWN - LS	REVISED -	
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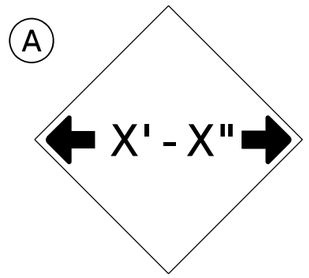
PLOT DATE = 4/24/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RUMBLE STRIPS (SPECIAL)

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

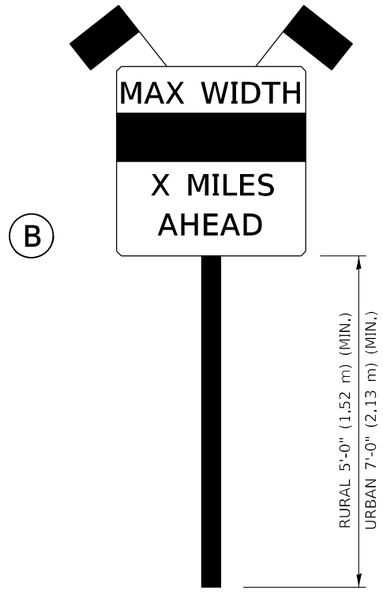
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	142
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



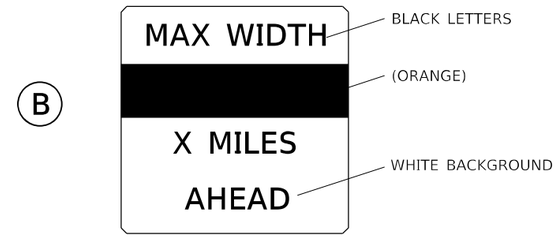
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

NOTES:
MAX WIDTH - PRE STAGE (WESTBOUND) 14'-11"
MAX WIDTH - PRE STAGE (EASTBOUND) 14'-11"
MAX WIDTH - STAGE 1 (WESTBOUND) 12'-6"
MAX WIDTH - STAGE 1 (EASTBOUND) 12'-6"
MAX WIDTH - STAGE 2 (WESTBOUND) 12'-6"
MAX WIDTH - STAGE 2 (EASTBOUND) 12'-6"
SEE MAINTENANCE OF TRAFFIC PLANS FOR SIGN LOCATIONS

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EFFINGHAM, IL
LICENSE #184.003222

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PLOT DATE = 4/24/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

DISTRICT 5 DETAIL NO. X7200201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	143
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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CDI CIVIL DESIGN, INC. WBE / DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME = dmammoser	DESIGNED - LS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-74 MAINTENANCE OF TRAFFIC WIDTH RESTRICTION SIGNING DETAILS
		DRAWN - LS	REVISED -		
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	PLOT DATE = 4/24/2023	DATE -	REVISED -		SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	144
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

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CIVIL DESIGN, INC. WBE / DBE EFFINGHAM, IL LICENSE #184.003222	USER NAME = dmammoser	DESIGNED - LS	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**I-74 MAINTENANCE OF TRAFFIC** **WIDTH RESTRICTION SIGNING DETAILS**
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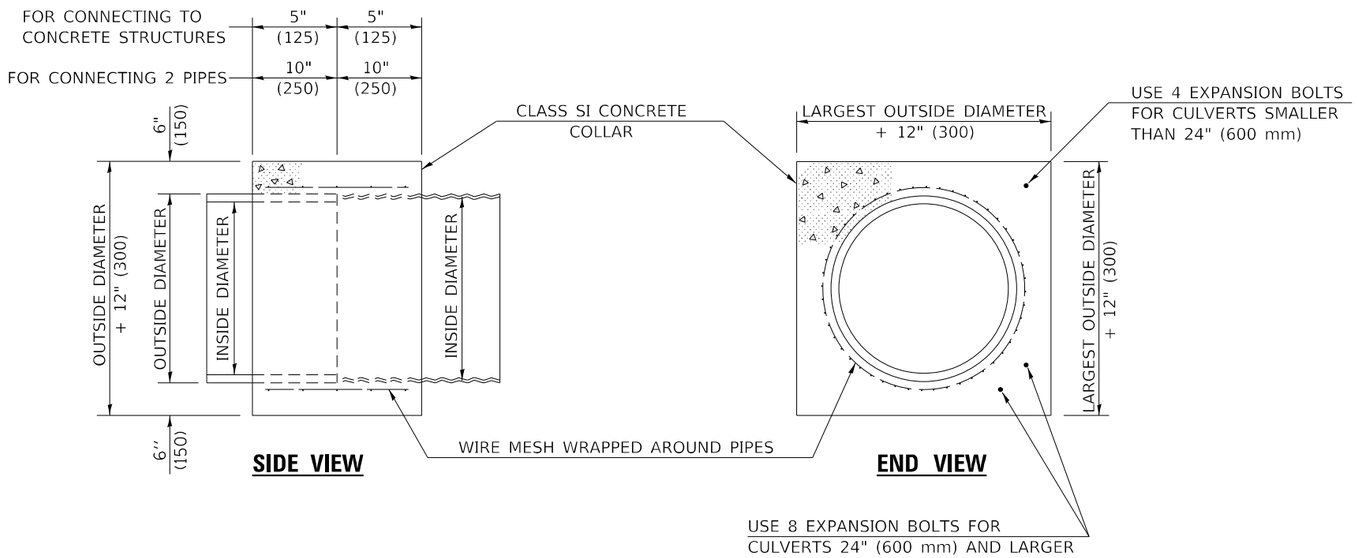
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	145
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20" (500 mm) WIDTH CU.YD. (m^3)
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20" (500 mm) WIDTH CU.YD. (m^3)
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m^2).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 54248510

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TWM ENGINEERING & GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO. 184-001220

USER NAME = efisher	DESIGNED -	REVISED - 12/06
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

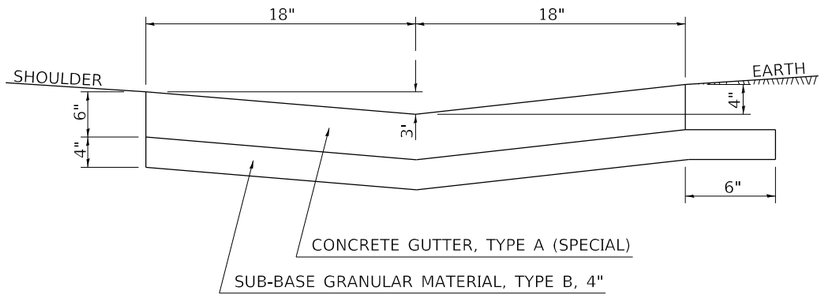
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE COLLAR

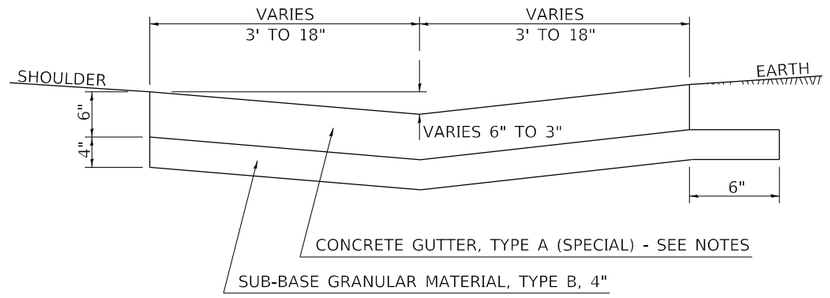
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

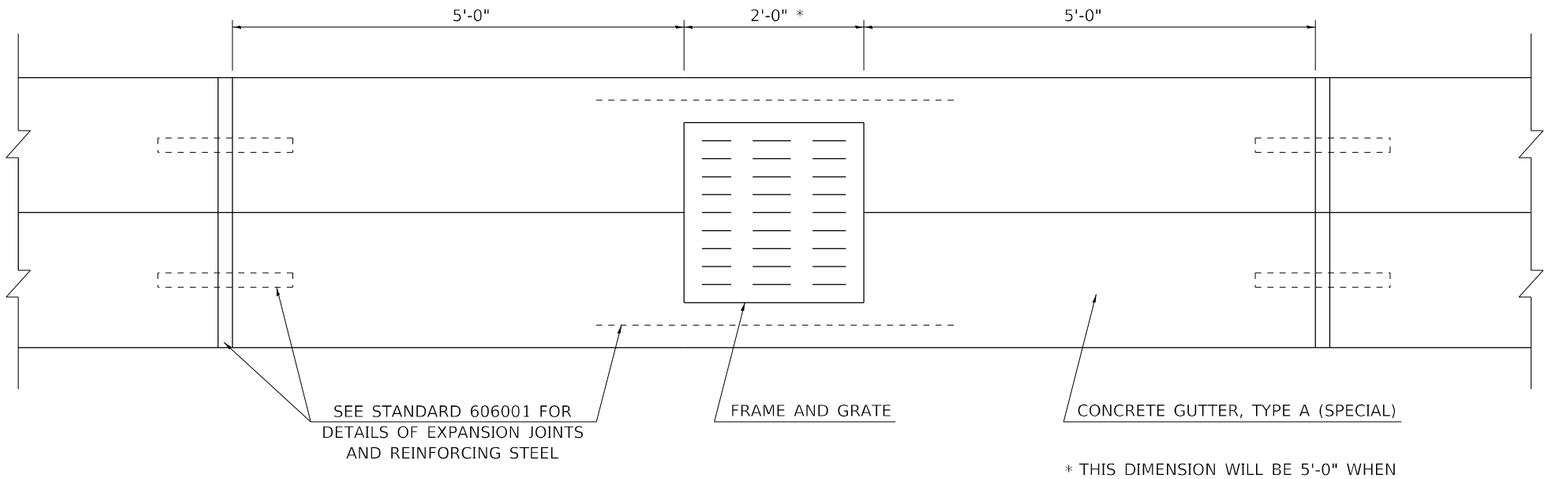
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	146
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

DIMENSIONS OF CONCRETE GUTTER, TYPE A (SPECIAL)



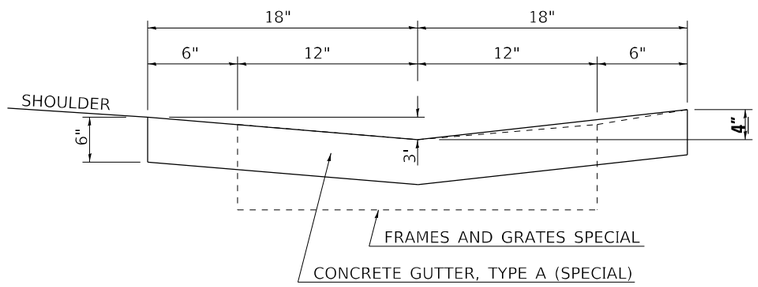
DIMENSIONS OF CONCRETE GUTTER, TYPE A (SPECIAL) TRANSITION





PLAN VIEW AT INLET LOCATIONS

* THIS DIMENSION WILL BE 5'-0" WHEN 6' MANHOLE SPECIAL AND 2 FRAMES AND GRATES ARE SPECIFIED.



SIDE VIEW AT INLET LOCATIONS

NOTE

Within the 5' section of gutter between the Expansion Joints and Frames and Grates, the gutter cross section shall be constructed to taper from the Concrete Gutter, Type A (Special) cross section to the Frames and Grates Special cross section.

NOTES

This work shall consist of constructing a special Type A concrete gutter and gutter transition as specified herein, at the locations shown on the plans, and in accordance with the applicable portions of Section 606 of the Standard Specifications. The length of the transition shall be 5 feet or as directed by the Engineer.

The proposed Concrete Gutter, Type A (Special) shall be constructed with the cross section shown on the details herein. The cross section for the Type A Gutter (Special) was specifically designed to:

- Maximize hydraulic capacity in the gutter section
- Minimize the entrance breakover between the Type A Gutter Entrance and the driveway pavement
- Improve ride quality through the Type A Gutter Entrance; therefore no changes in the gutter cross section will be allowed. In addition, all joints and reinforcing steel for Concrete Gutter, Type A (Special), shall conform to the details shown herein, the applicable details of Standard 606001, and the applicable portions of Section 606 of the Standard Specifications.

Concrete Gutter, Type A (Special) will be measured for payment in (feet) along the flow line of the gutter. Concrete inlets, entrances, and outlets along the gutter section will be measured for payment in place and the volume of concrete computed in (cubic yards).

This work will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (SPECIAL) of the dimensions specified. Concrete inlets, entrances, and outlets along the gutter section will be paid for as CLASS SI CONCRETE (OUTLET).

Sub-Base Granular Material, Type B 4" shall be constructed under the Type A Gutter (Special) and Type A Gutter Entrance. This work will not be paid for separately, but shall be included in the contract unit price for CONCRETE GUTTER, TYPE A (SPECIAL).

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the P.C.C. pavement at side streets in accordance with details for longitudinal construction joint shown on Standard 420001. Longitudinal joint tie bars shall be No. 6 at 24" centers.

Two 1-1/4" x 18" dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 60602700 (MODIFIED)

MODEL: Default
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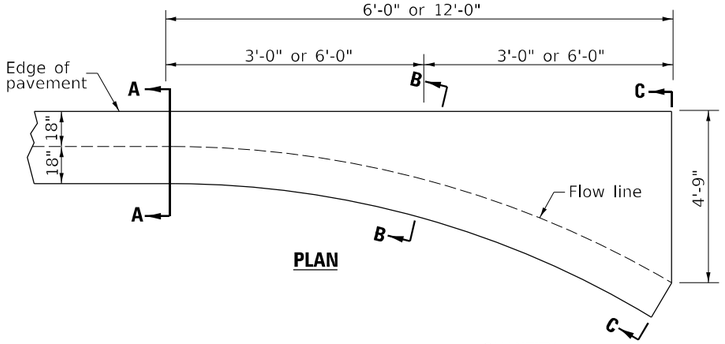
TWM ENGINEERING GEOSPATIAL SERVICES — TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE GUTTER, TYPE A (SPECIAL)
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 4/27/2023	DATE -	REVISED -		SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	147
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

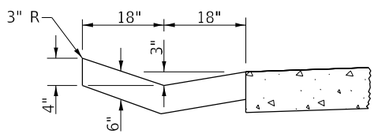


PLAN

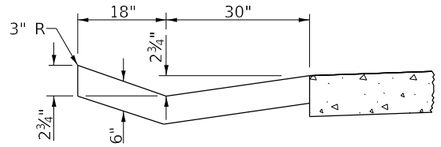
QUANTITY

For 6'-0" Inlets
Section C-C to Section A-A = 0.46 cu. yd.

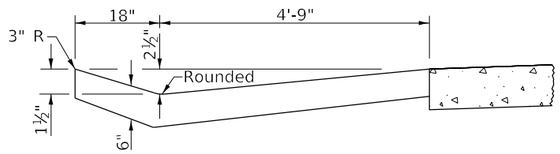
For 12'-0" Inlets
Section C-C to A-A = 0.92 cu. yd.



SECTION A–A

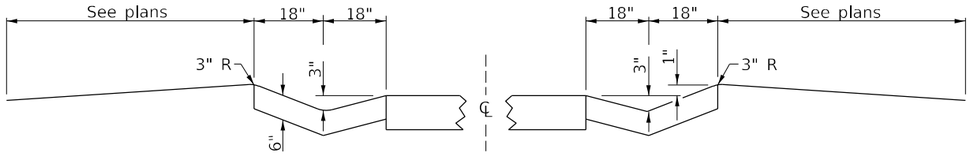


SECTION B–B

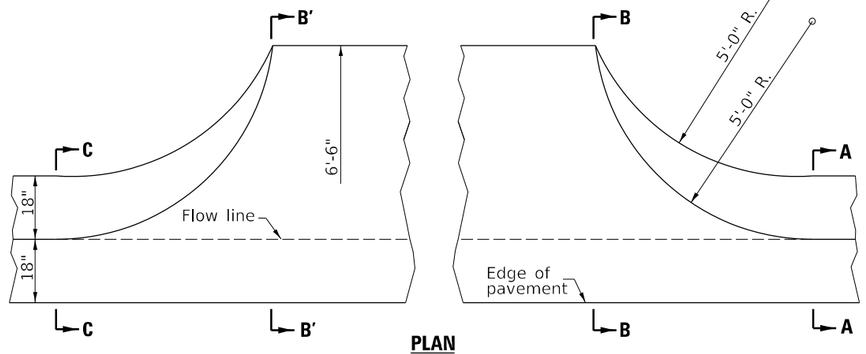


SECTION C–C

INLET



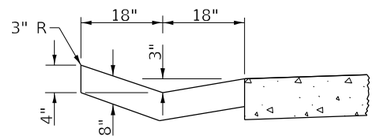
TYPE A GUTTER



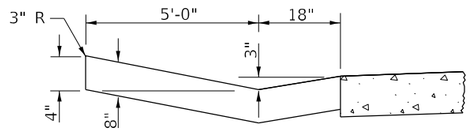
PLAN

QUANTITY

Section B'-B' to B-B = 0.16 cu. yd./ft.
Section C-C to B'-B' + B'-B' to A-A = 0.96 cu. yd.



SECTION A–A & C–C



SECTION B–B & B'–B'

ENTRANCE

NOTES

This work shall consist of constructing a special Type A concrete gutter and gutter transition as specified herein, at the locations shown on the plans, and in accordance with the applicable portions of Section 606 of the Standard Specifications. The length of the transition shall be 5 feet or as directed by the Engineer.

The proposed Concrete Gutter, Type A (Special) shall be constructed with the cross section shown on the details herein. The cross section for the Type A Gutter (Special) was specifically designed to:

- Maximize hydraulic capacity in the gutter section
- Minimize the entrance breakover between the Type A Gutter Entrance and the driveway pavement
- Improve ride quality through the Type A Gutter Entrance; therefore no changes in the gutter cross section will be allowed. In addition, all joints and reinforcing steel for Concrete Gutter, Type A (Special), shall conform to the details shown herein, the applicable details of Standard 606001, and the applicable portions of Section 606 of the Standard Specifications.

Concrete Gutter, Type A (Special) will be measured for payment in (feet) along the flow line of the gutter. Concrete inlets, entrances, and outlets along the gutter section will be measured for payment in place and the volume of concrete computed in (cubic yards).

This work will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (SPECIAL) of the dimensions specified. Concrete inlets, entrances, and outlets along the gutter section will be paid for as CLASS SI CONCRETE (OUTLET).

Sub-Base Granular Material, Type B 4" shall be constructed under the Type A Gutter (Special) and Type A Gutter Entrance. This work will not be paid for separately, but shall be included in the contract unit price for CONCRETE GUTTER, TYPE A (SPECIAL).

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the P.C.C. pavement at side streets in accordance with details for longitudinal construction joint shown on Standard 420001. Longitudinal joint tie bars shall be No. 6 at 24" centers.

Two 1-1/4" x 18" dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 60602700 (MODIFIED)

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher | PLOT SCALE = 40.0000 ' / in. | PLOT DATE = 4/27/2023
DESIGNED - | DRAWN - | CHECKED - | DATE -
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE GUTTER, TYPE A (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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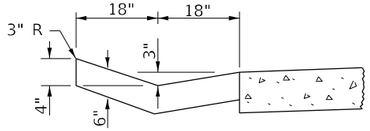
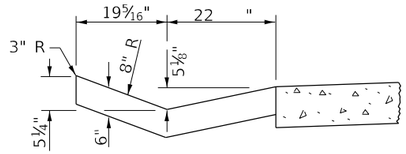
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	



SECTION A–A

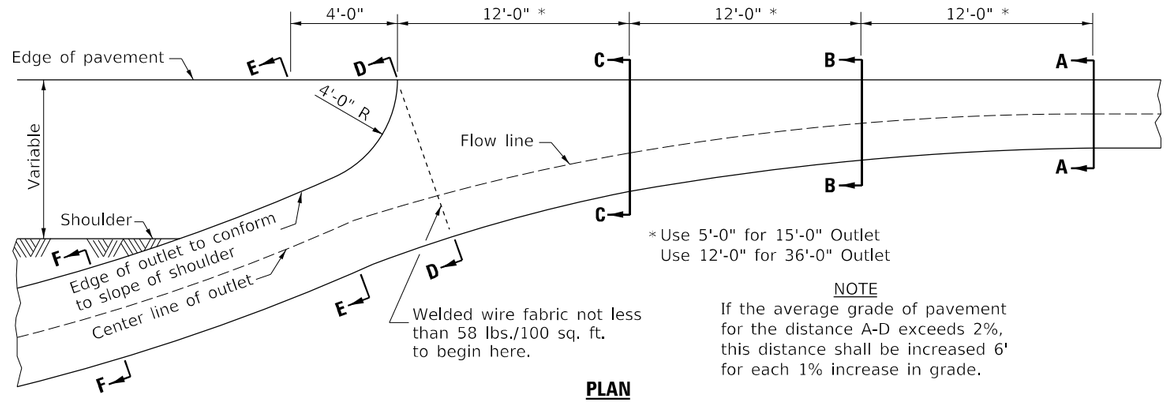


SECTION B–B

QUANTITY

* For 15'-0" Outlet
Section A-A to Section E-E
and Curtain Wall = 1.65 cu. yd. Concrete
Section F-F = 0.079 cu. yd./ft.

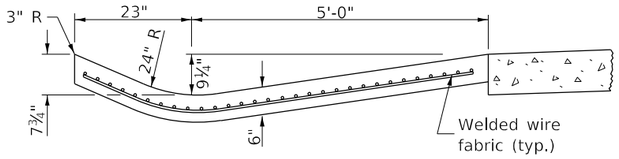
* For 36'-0" Outlet
Section A-A to Section E-E
and Curtain Wall = 3.53 cu. yd. Concrete
Section F-F = 0.079 cu. yd./ft.



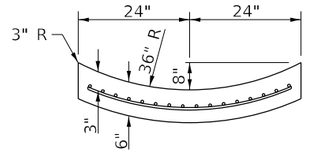
PLAN

* Use 5'-0" for 15'-0" Outlet
Use 12'-0" for 36'-0" Outlet

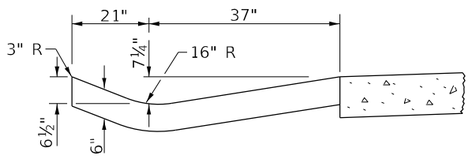
NOTE
If the average grade of pavement
for the distance A-D exceeds 2%,
this distance shall be increased 6'
for each 1% increase in grade.



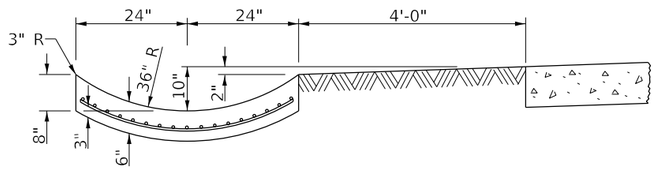
SECTION D–D



SECTION F–F

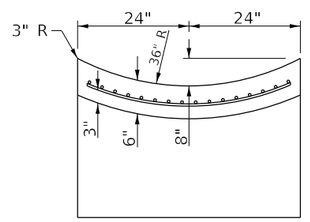


SECTION C–C



SECTION E–E

OUTLET



SECTIONS AT END OF OUTLET

NOTES

This work shall consist of constructing a special Type A concrete gutter and gutter transition as specified herein, at the locations shown on the plans, and in accordance with the applicable portions of Section 606 of the Standard Specifications. The length of the transition shall be 5 feet or as directed by the Engineer.

The proposed Concrete Gutter, Type A (Special) shall be constructed with the cross section shown on the details herein. The cross section for the Type A Gutter (Special) was specifically designed to:
- Maximize hydraulic capacity in the gutter section
- Minimize the entrance breakover between the Type A Gutter Entrance and the driveway pavement
- Improve ride quality through the Type A Gutter Entrance; therefore no changes in the gutter cross section will be allowed. In addition, all joints and reinforcing steel for Concrete Gutter, Type A (Special), shall conform to the details shown herein, the applicable details of Standard 606001, and the applicable portions of Section 606 of the Standard Specifications.

Concrete Gutter, Type A (Special) will be measured for payment in (feet) along the flow line of the gutter. Concrete inlets, entrances, and outlets along the gutter section will be measured for payment in place and the volume of concrete computed in (cubic yards).

This work will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (SPECIAL) of the dimensions specified. Concrete inlets, entrances, and outlets along the gutter section will be paid for as CLASS SI CONCRETE (OUTLET).

Sub-Base Granular Material, Type B 4" shall be constructed under the Type A Gutter (Special) and Type A Gutter Entrance. This work will not be paid for separately, but shall be included in the contract unit price for CONCRETE GUTTER, TYPE A (SPECIAL).

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the P.C.C. pavement at side streets in accordance with details for longitudinal construction joint shown on Standard 420001. Longitudinal joint tie bars shall be No. 6 at 24" centers.

Two 1-1/4" x 18" dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 60602700 (MODIFIED)

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

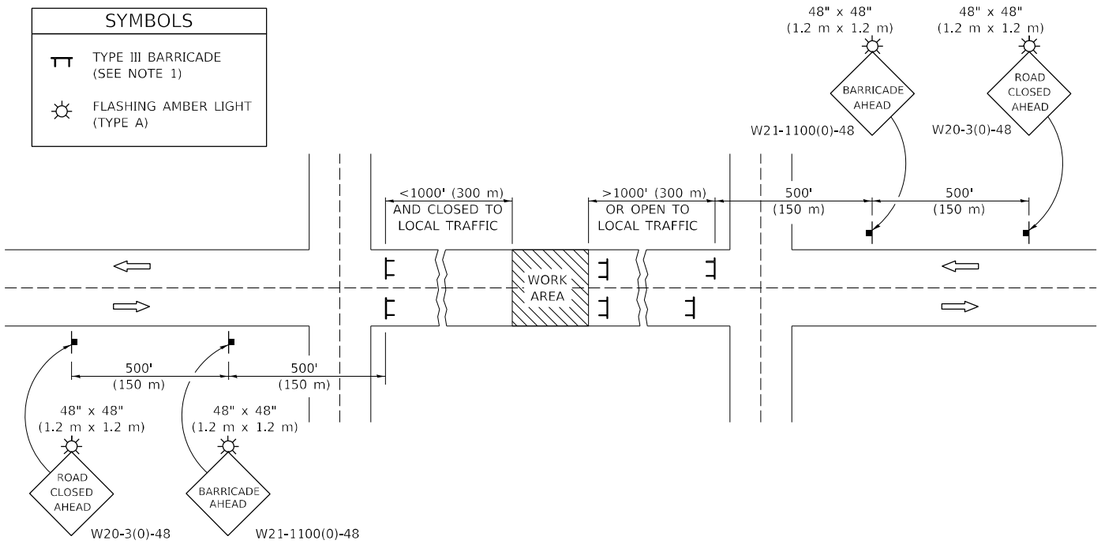
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE GUTTER, TYPE A (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	149
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

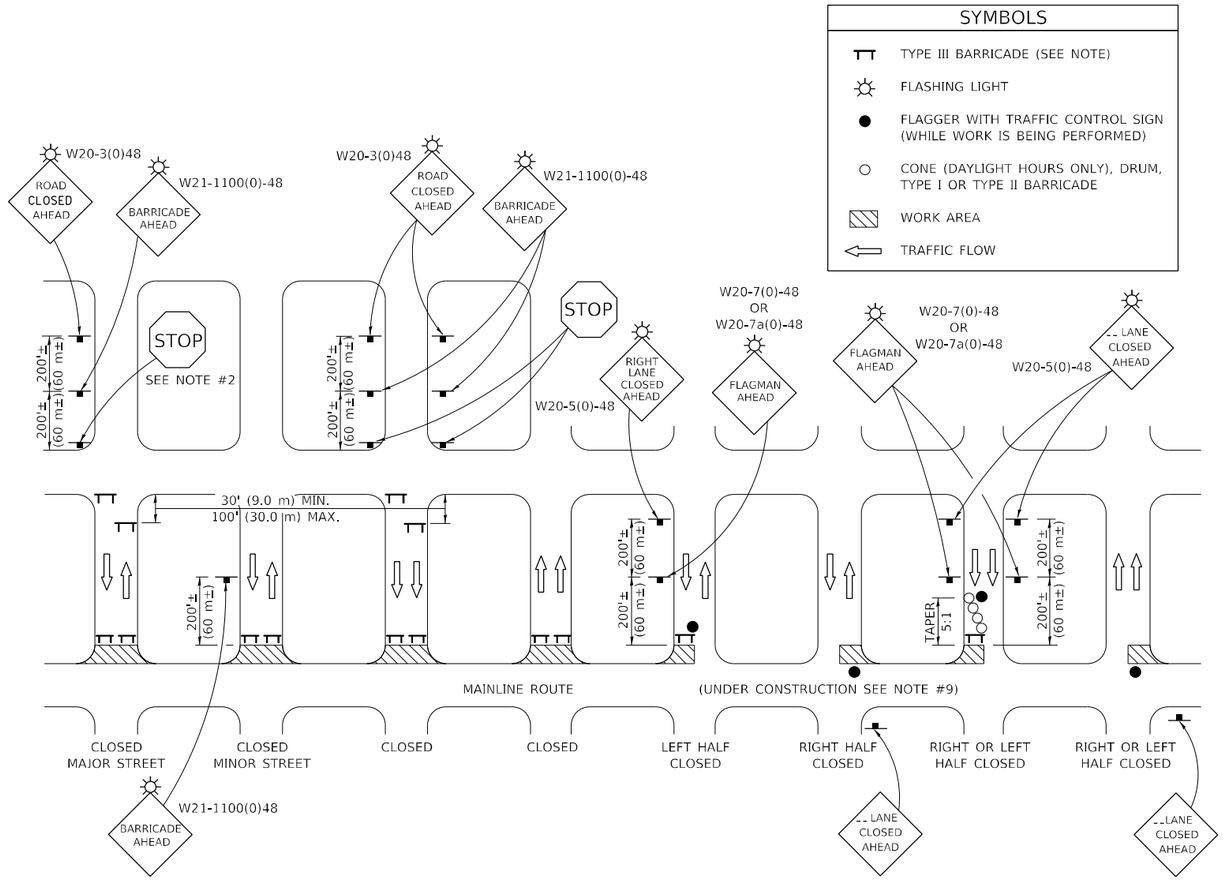
ROAD CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SIDEROAD / STREET CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
3. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
5. ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
7. FORMS BT 725 AND BT 726 ARE REQUIRED.
8. THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
9. ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 70200000

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TWM ENGINEERING & GEOSPATIAL SERVICES
TWM, INC. WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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	DRAWN -	REVISED - 12/07
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 09/09 KJT
PLOT DATE = 4/27/2023	DATE -	REVISED -

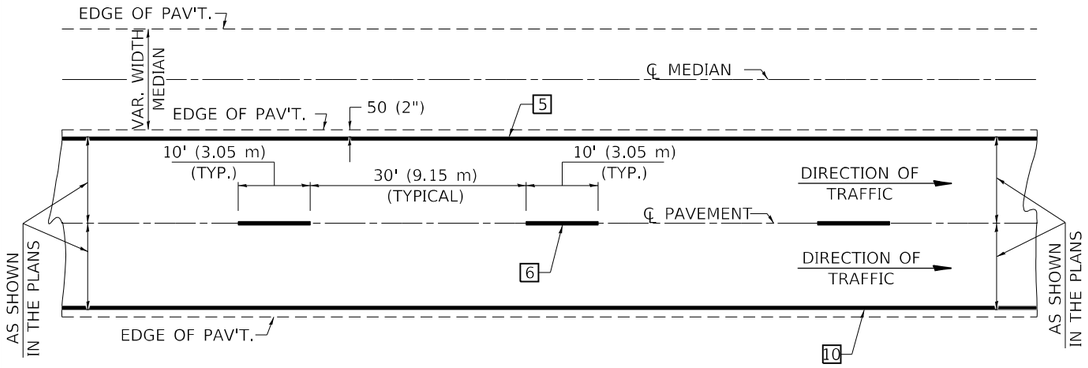
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD / STREET CLOSURES)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	150
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

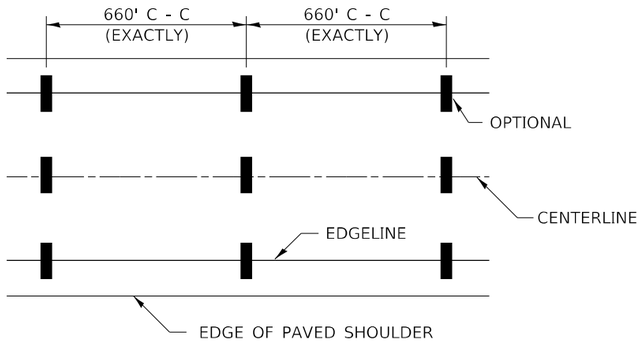
CENTERLINE INTERSTATE OR MULTI–LANE TWO WAY DIVIDED HIGHWAY



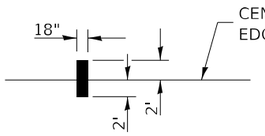
NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



AERIAL SPEED CHECK ZONES

TYPICAL PAVEMENT MARKING LEGEND

1 4" (100) SKIP-DASH (YELLOW)

2 4" (100) SOLID (YELLOW)

3 12" (300) DIAGONAL (YELLOW)

4 4" (100) DOUBLE YELLOW (NARROW)

5 6" (150) SOLID (YELLOW)

6 6" (150) SKIP-DASH (WHITE)

7 4" (100) SKIP-DASH (WHITE)

8 4" (100) SOLID (WHITE)

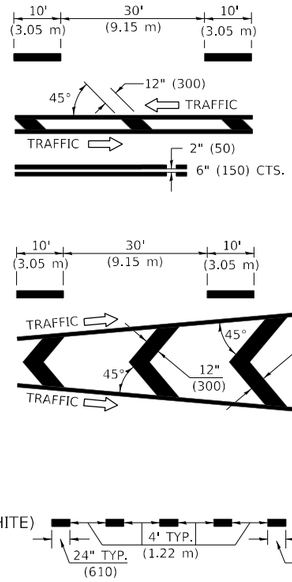
9 12" (300) DIAGONAL (WHITE)

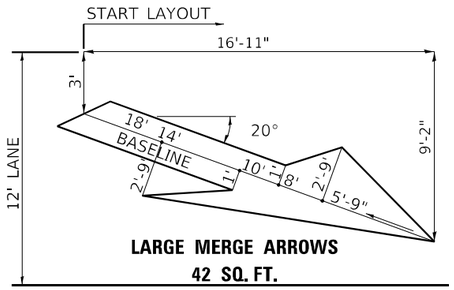
10 6" (150) SOLID (WHITE)

11 24" (600) STOP BAR (WHITE)

12 8" (200) SOLID (WHITE)

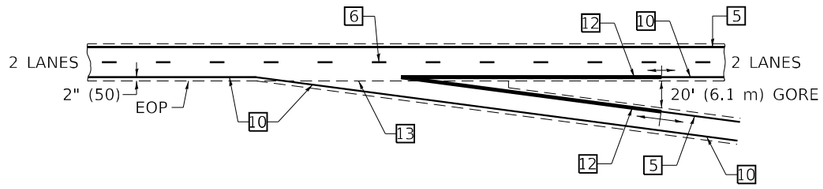
13 6" (150) LANE LINE EXTENSIONS (WHITE)



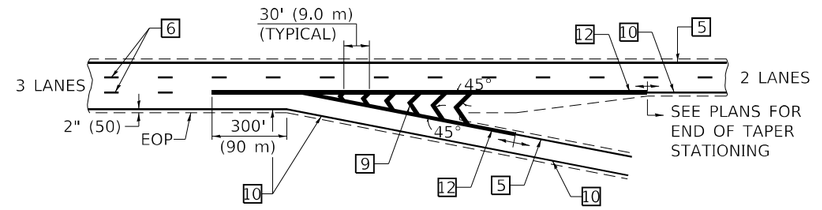


LARGE MERGE ARROWS
42 SQ. FT.

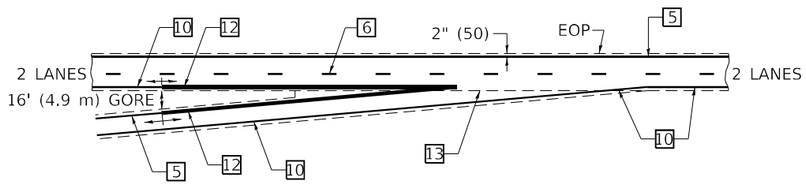
TYPICAL EXIT RAMP TERMINAL



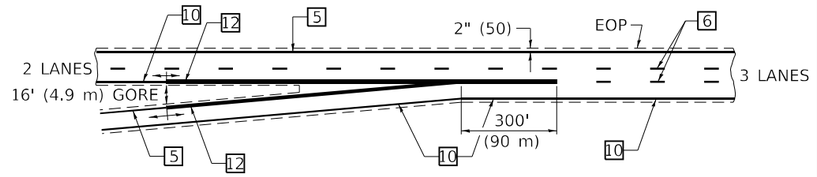
EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



TYPICAL ENTRANCE RAMP TERMINAL



ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800BBBB

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TWM ENGINEERING & GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

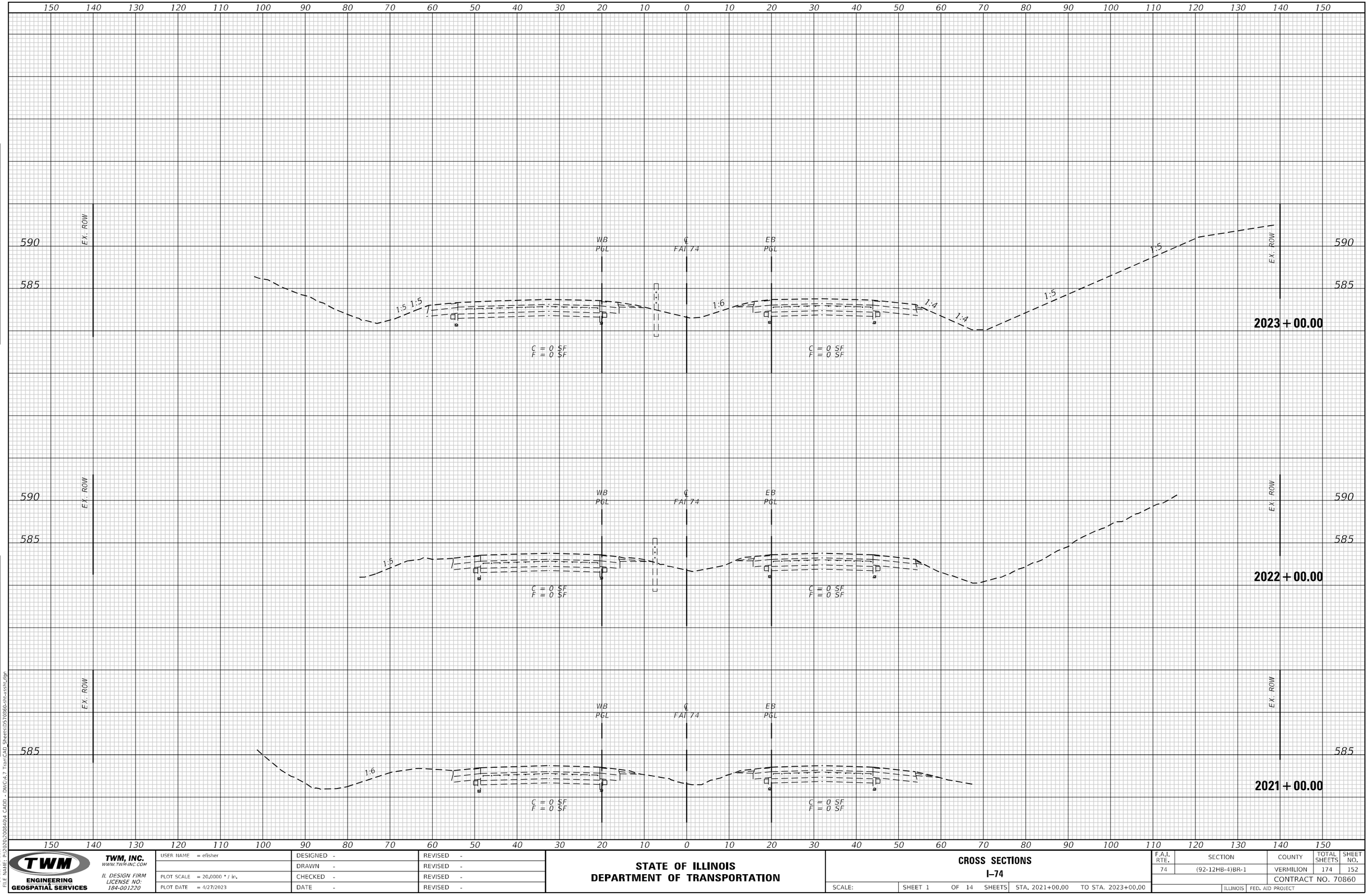
USER NAME = efisher	DESIGNED -	REVISED -	11/06
	DRAWN -	REVISED -	12/20
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (INTERSTATE & MULTI–LANE APPLICATIONS)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	151
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -
			DRAWN -
		PLOT SCALE = 20.0000 ' / in.	CHECKED -
		PLOT DATE = 4/27/2023	DATE -

REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS I–74
REVISED -		
REVISED -		
REVISED -		

SCALE: | SHEET 1 OF 14 SHEETS | STA. 2021+00.00 | TO STA. 2023+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	152
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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

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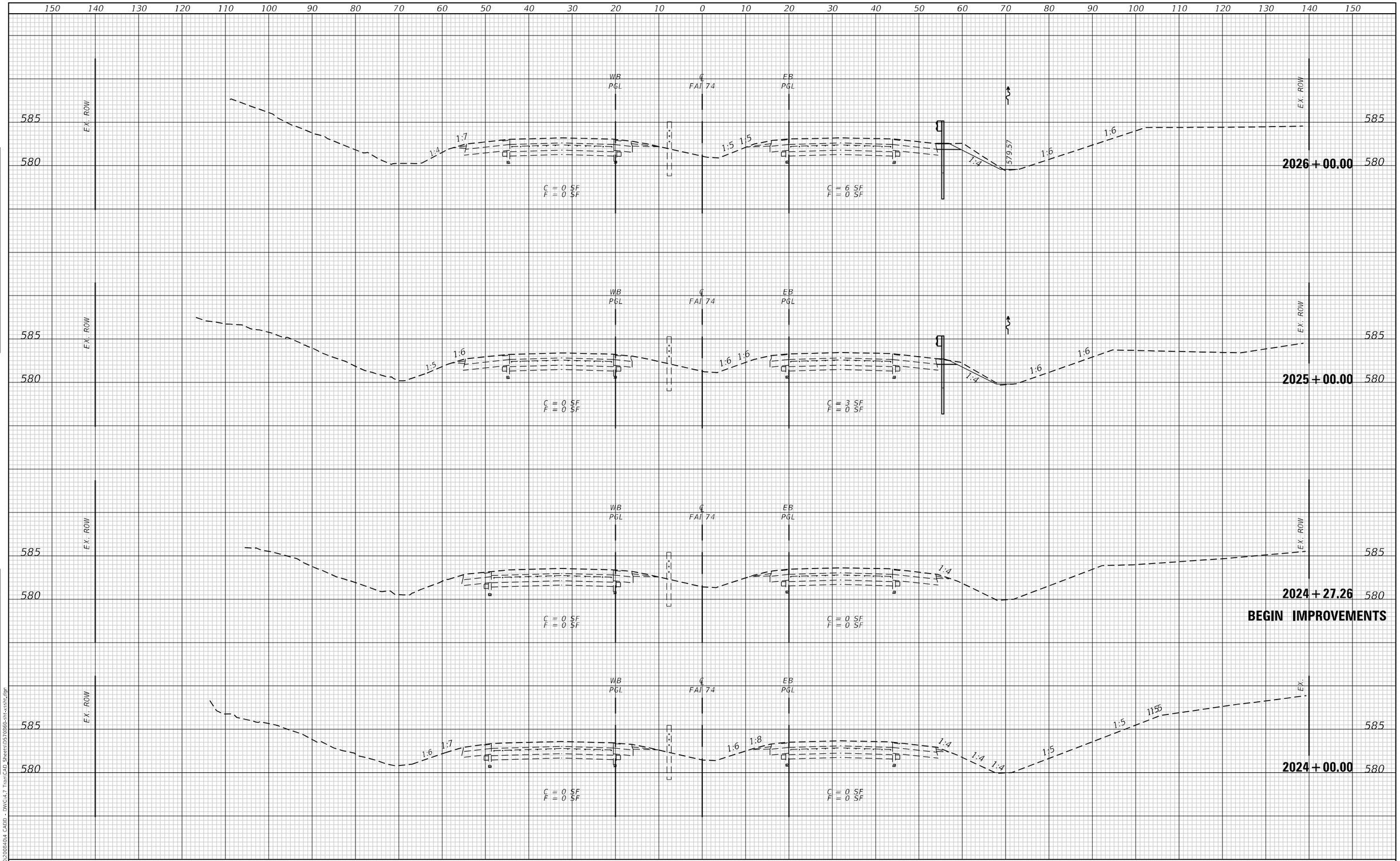

TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED - / DRAWN - / CHECKED - / DATE -
		PLOT SCALE = 20.0000 ' / in.	REVISED -
		PLOT DATE = 4/27/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 2 OF 14 SHEETS | STA. 2024+00.00 TO STA. 2026+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	153
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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

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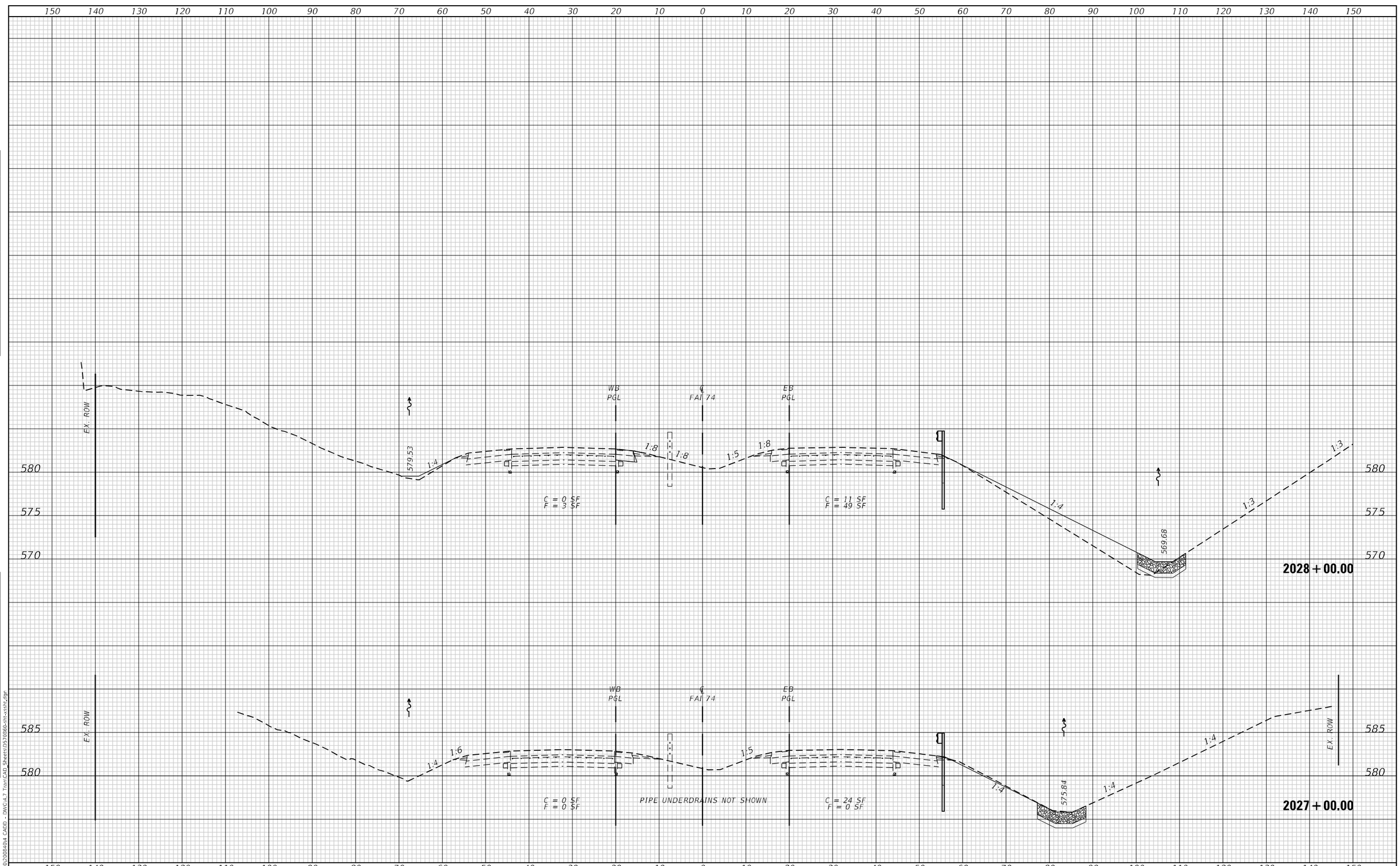

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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

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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

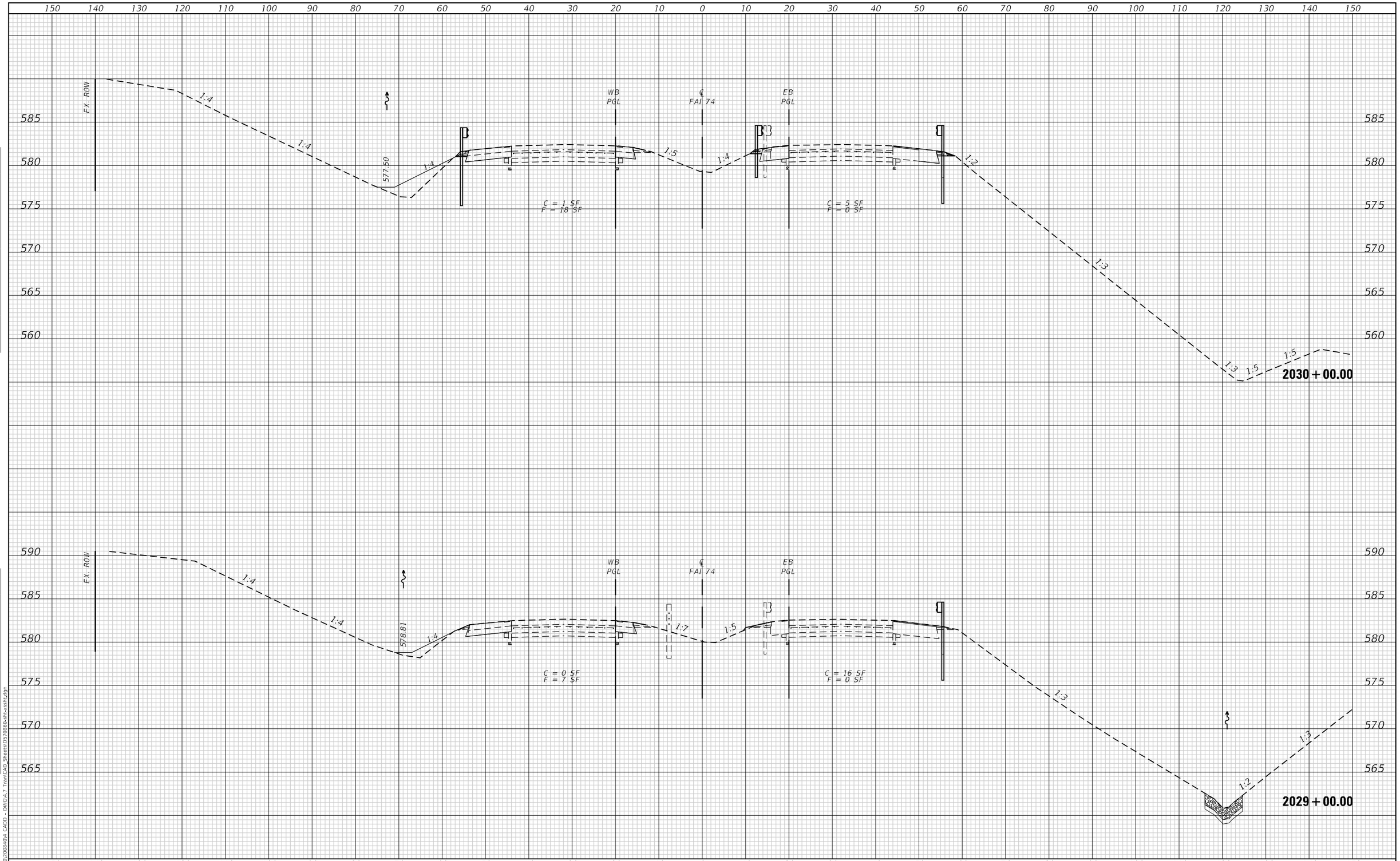
USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 3 OF 14 SHEETS | STA. 2027+00.00 | TO STA. 2028+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	154
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED - / DRAWN - / CHECKED - / DATE -
		PLOT SCALE = 20.0000 ' / in.	REVISED - / REVISED - / REVISED -
		PLOT DATE = 4/27/2023	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 4 OF 14 SHEETS | STA. 2029+00.00 TO STA. 2030+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	155
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

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

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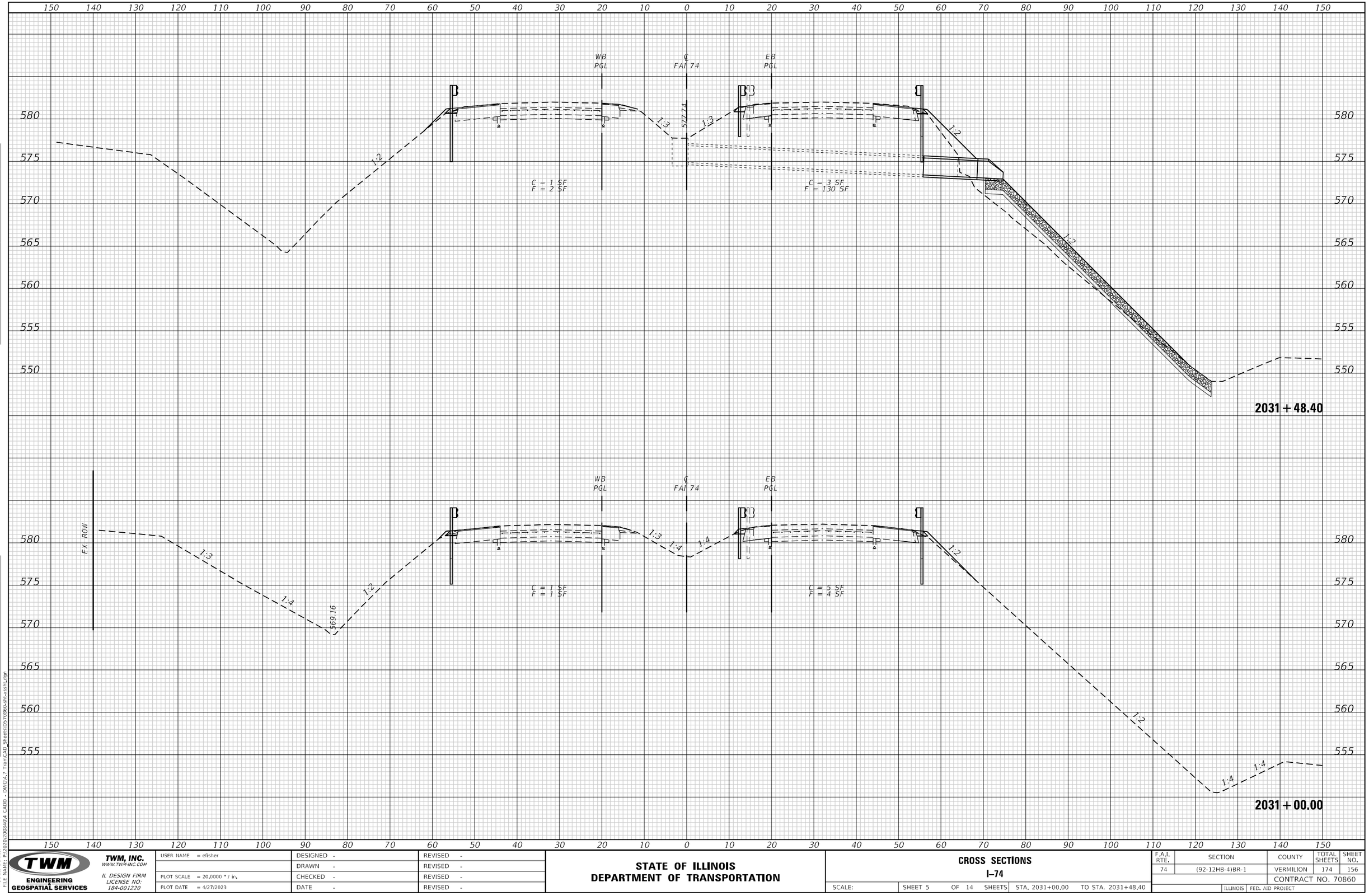

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY

NOTE BOOK

NO.

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

ORIGINAL SURVEY

NOTE BOOK

NO.

MODEL: Default
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TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO:
184-001220

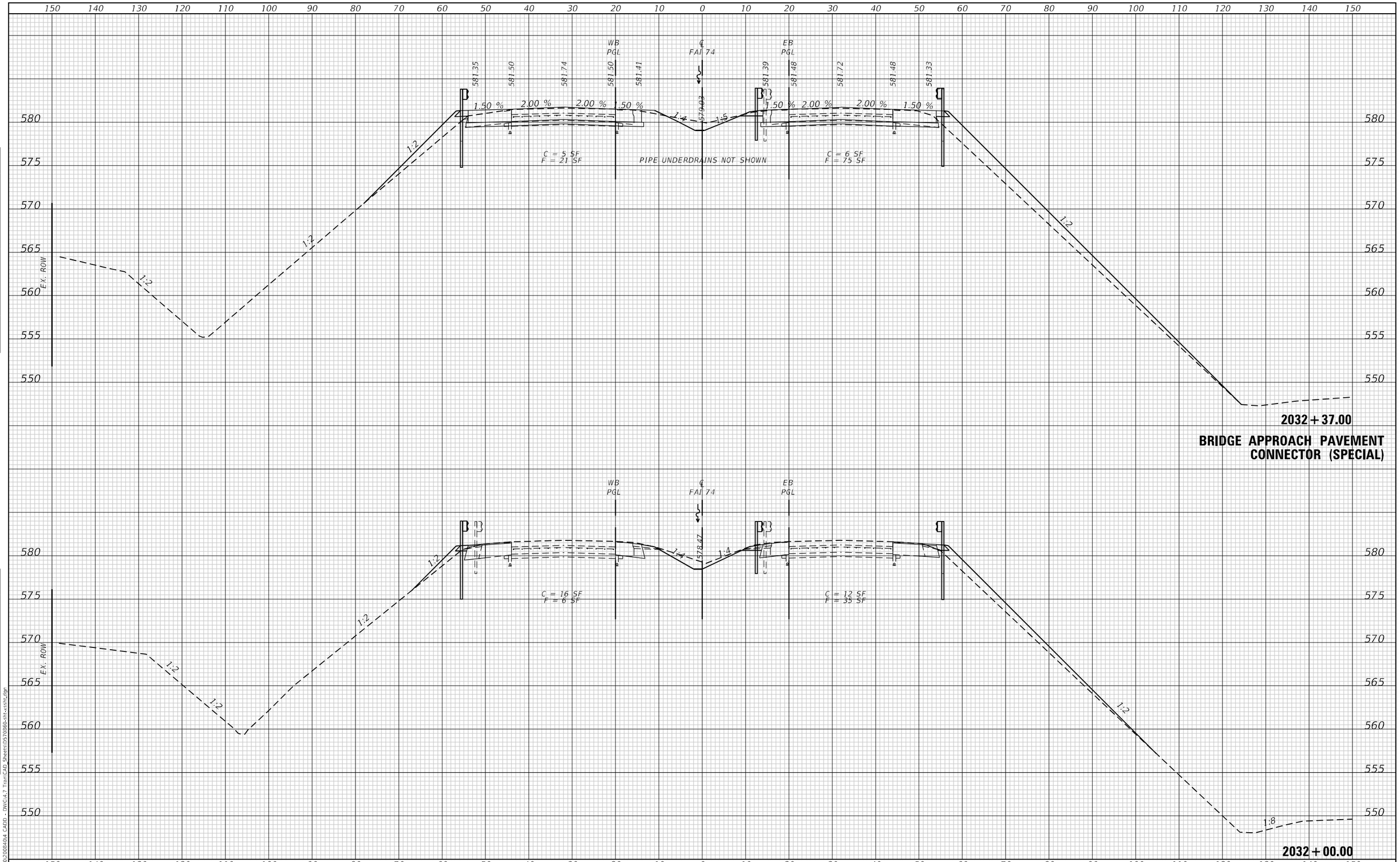
USER NAME = efisher	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 5 OF 14 SHEETS | STA. 2031+00.00 | TO STA. 2031+48.40

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	156
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			



USER NAME = efisher	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/27/2023	DATE -	REVISED -	

TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 6 OF 14 SHEETS | STA. 2032+00.00 | TO STA. 2032+37.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	157
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

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

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

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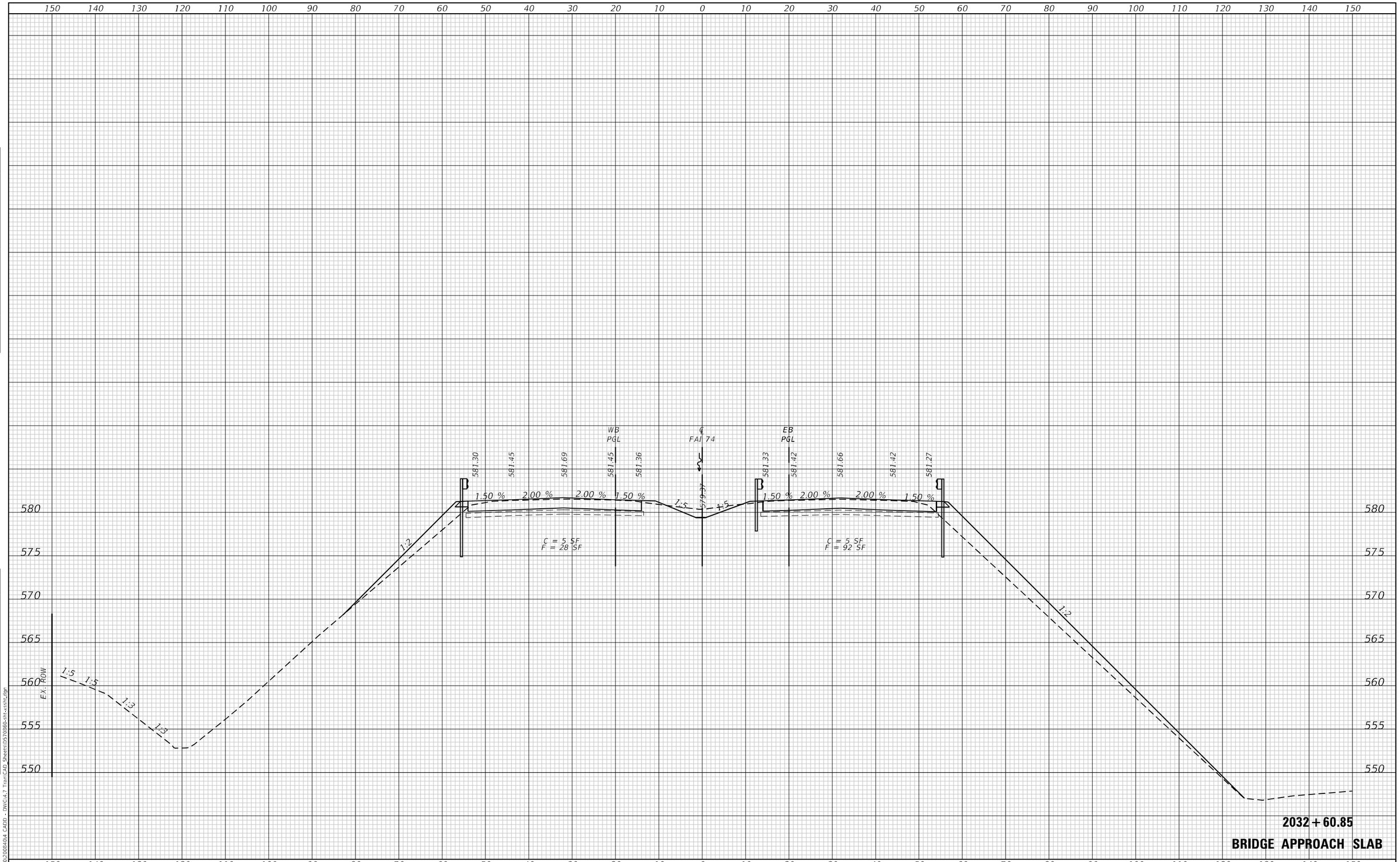
ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED

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



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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM	USER NAME = efisher	DESIGNED -
	IL DESIGN FIRM LICENSE NO: 184-001220		DRAWN -
		PLOT SCALE = 20.0000 ' / in.	CHECKED -
		PLOT DATE = 4/27/2023	DATE -

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

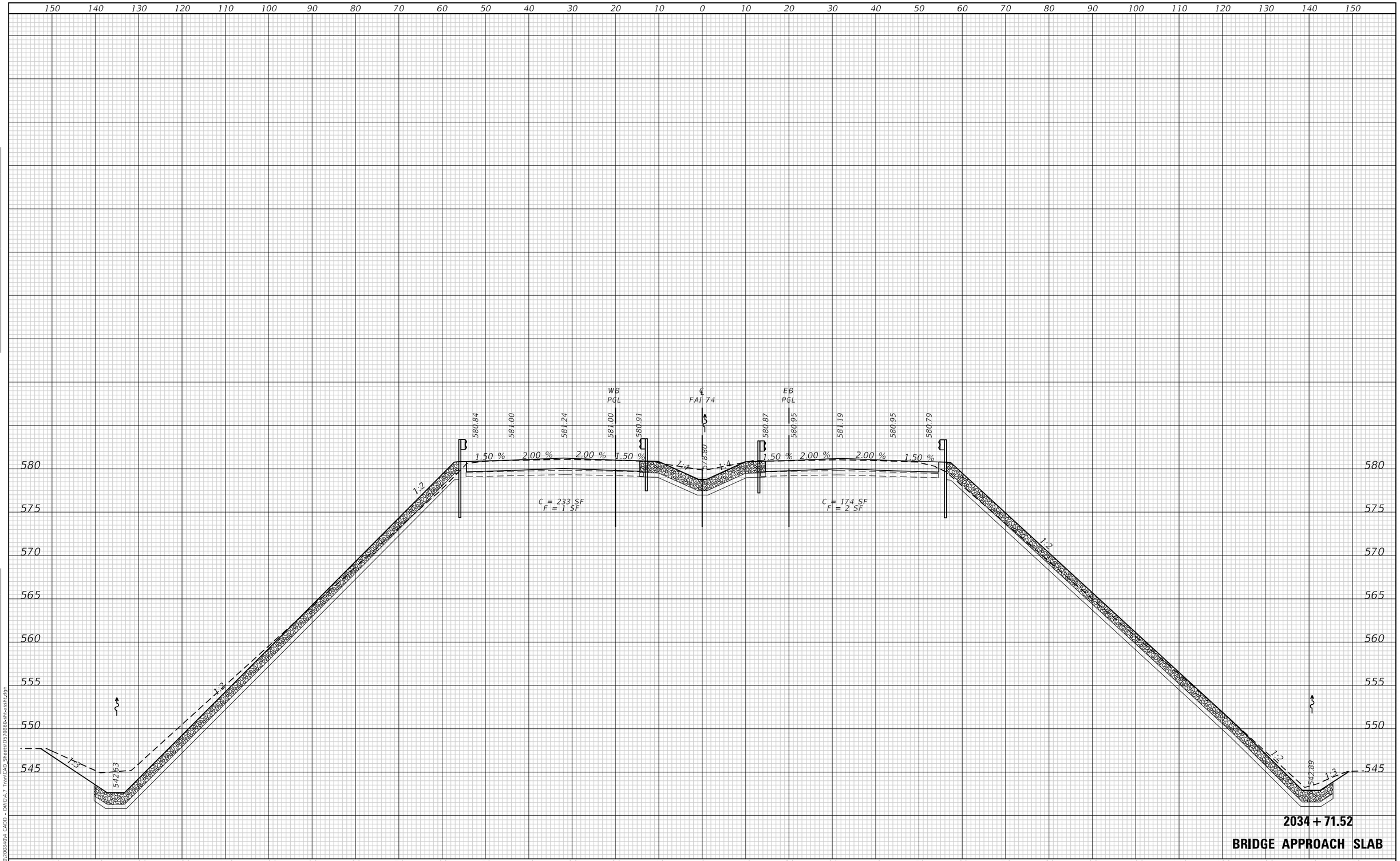
CROSS SECTIONS
I–74

SCALE: | SHEET 7 OF 14 SHEETS | STA. 2032+60.85 | TO STA. 2032+60.85

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	158
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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



2034 + 71.52

BRIDGE APPROACH SLAB

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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. www.TWM-INC.COM	USER NAME = efisher	DESIGNED -
	IL DESIGN FIRM LICENSE NO. 184-001220		DRAWN -
		PLOT SCALE = 20.0000 ' / in.	CHECKED -
		PLOT DATE = 4/27/2023	DATE -

REVISED -		
REVISED -		
REVISED -		
REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

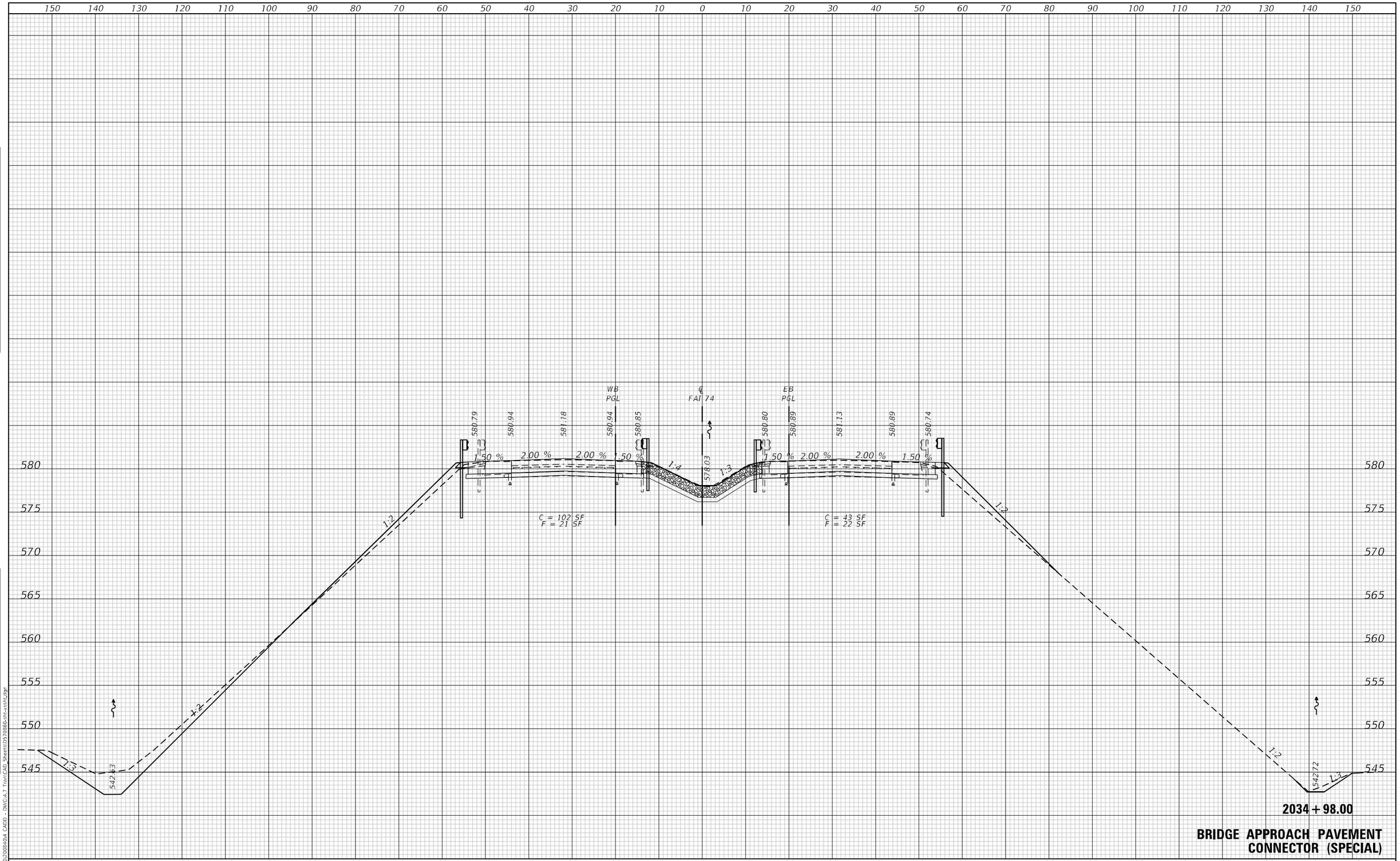
CROSS SECTIONS
I–74

SCALE: | SHEET 8 OF 14 SHEETS | STA. 2034+71.52 | TO STA. 2034+71.52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	159
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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



2034 + 98.00

BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)

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TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED - / REVISED -
			DRAWN - / REVISED -
		PLOT SCALE = 20.0000 ' / in.	CHECKED - / REVISED -
		PLOT DATE = 4/27/2023	DATE - / REVISED -

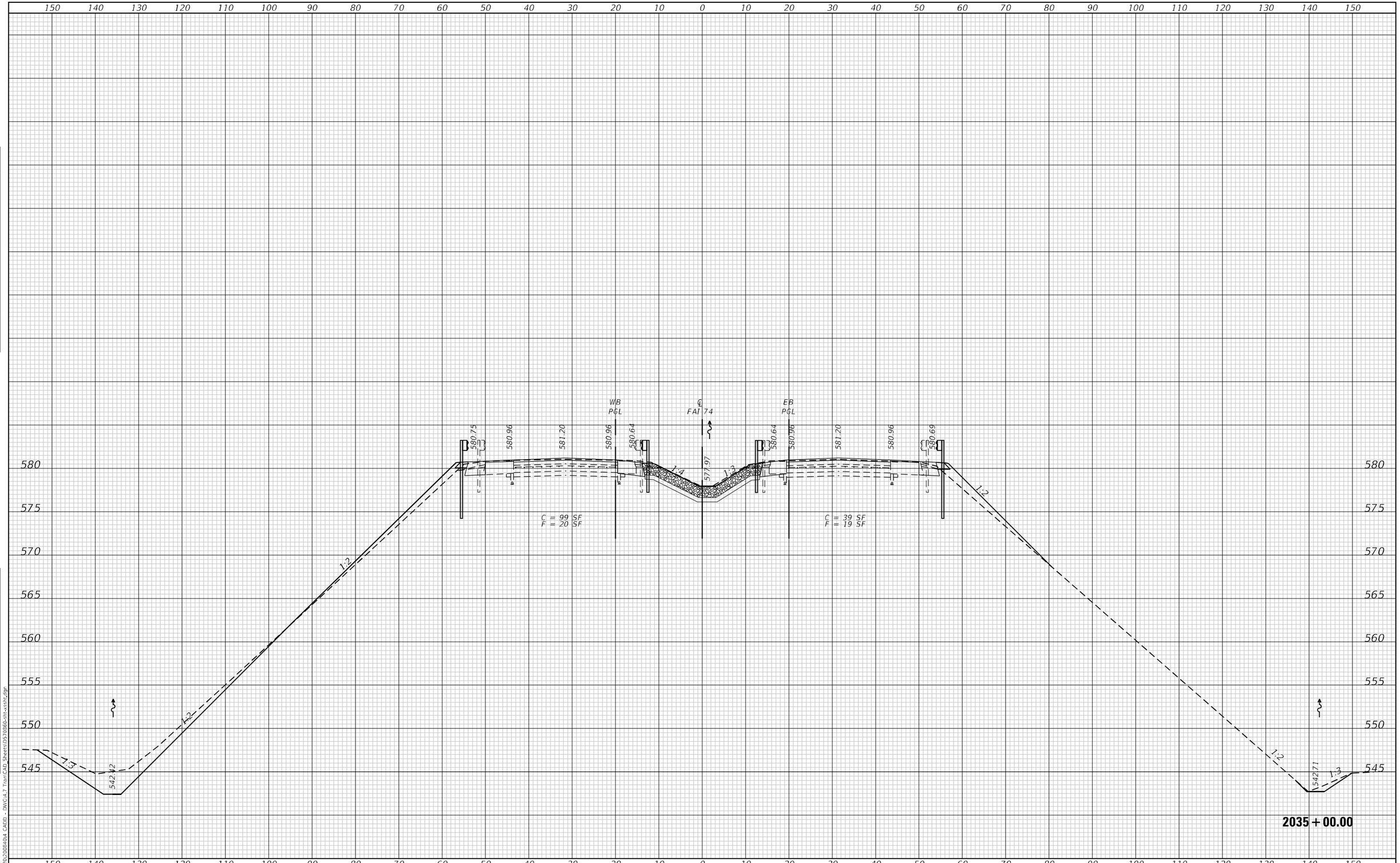
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 9 OF 14 SHEETS | STA. 2034+98.00 | TO STA. 2034+98.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	160
		CONTRACT NO. 70860		
	ILLINOIS FED. AID PROJECT			

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



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SURVEYED		BY
PLOTTED		DATE
TEMPLATE		
AREAS		
AREAS CHECKED		

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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

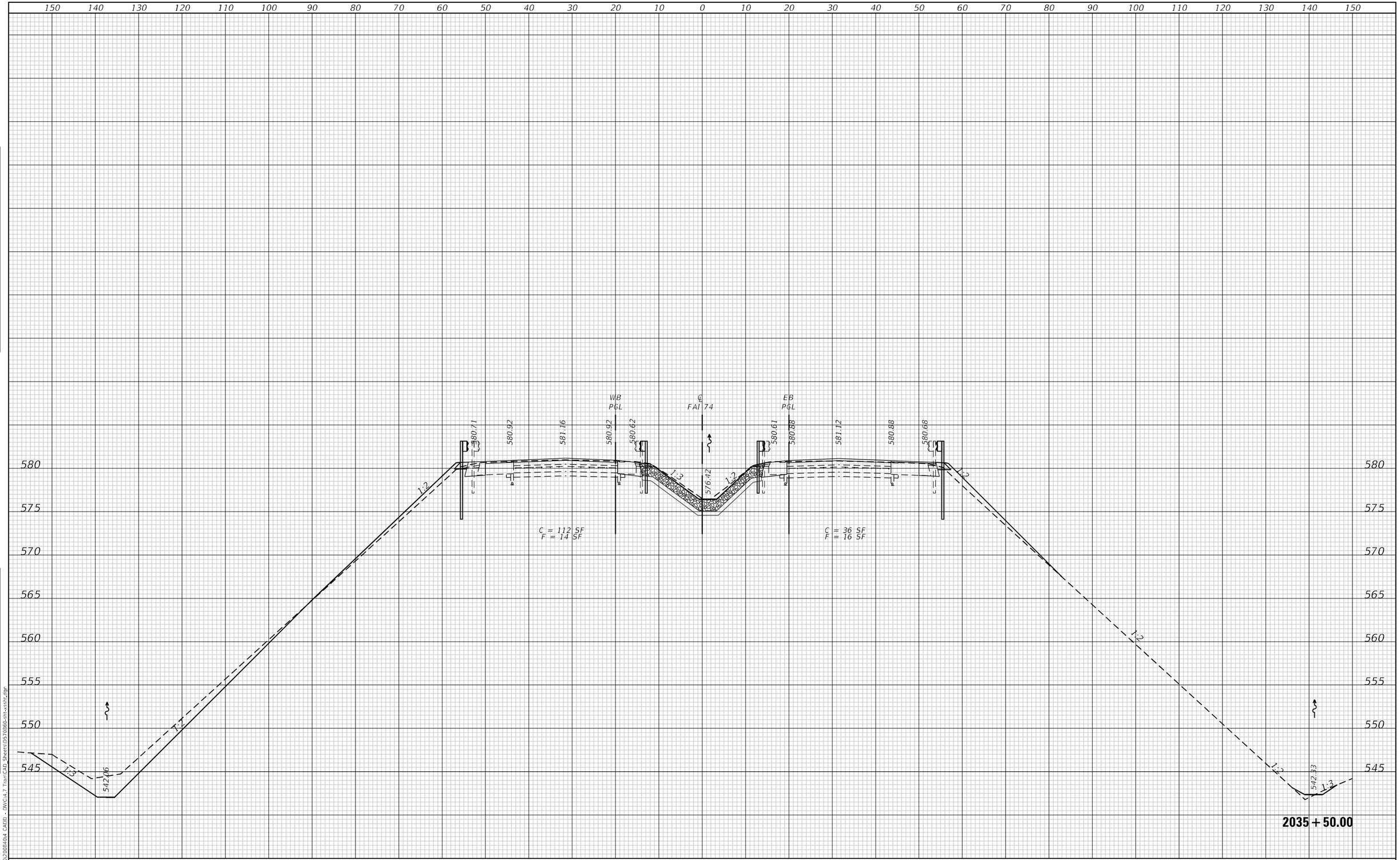
CROSS SECTIONS
I–74

SCALE: | SHEET 10 OF 14 SHEETS | STA. 2035+00.00 | TO STA. 2035+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	161
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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



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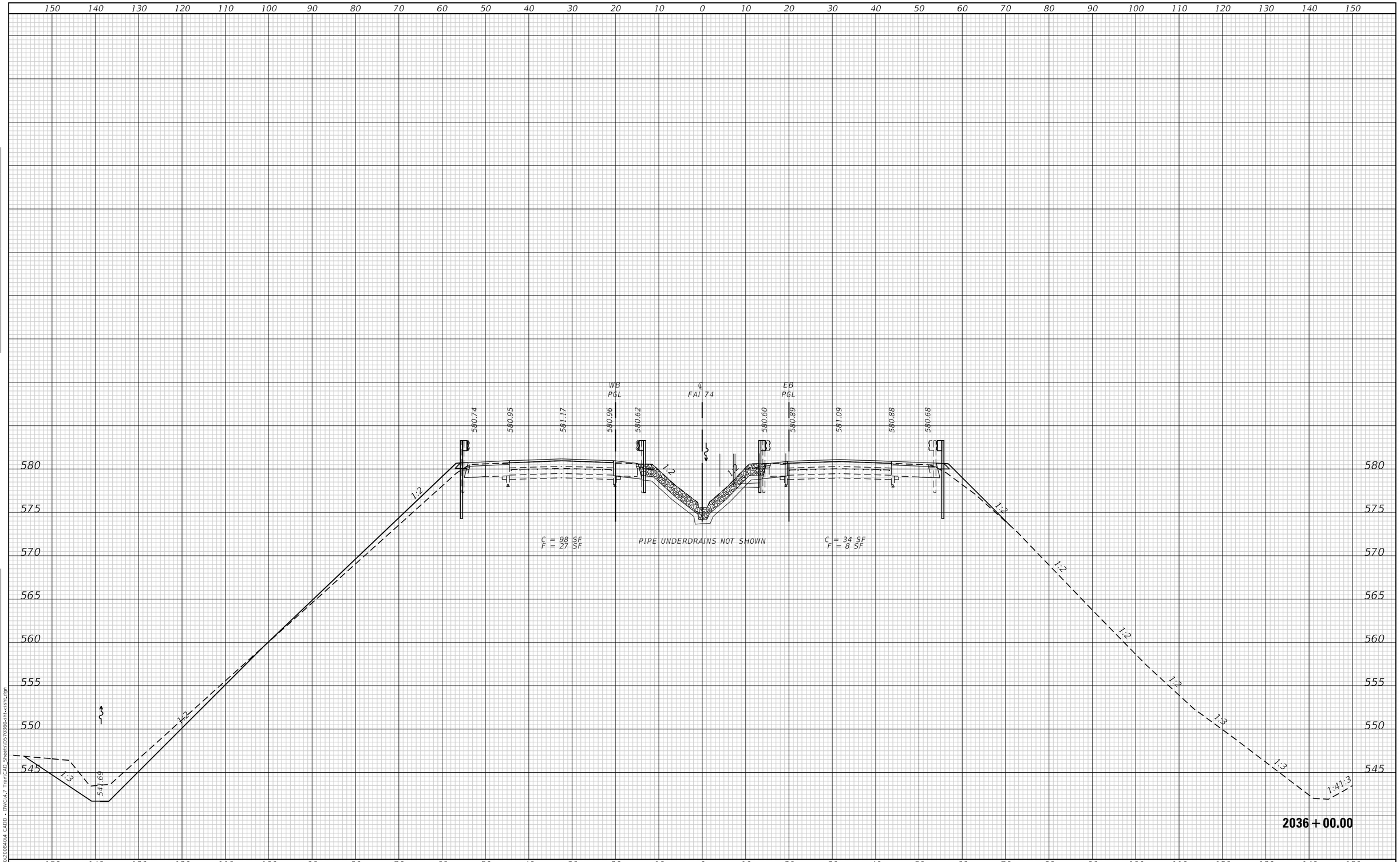
TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
			DRAWN -	REVISED -	
		PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
		PLOT DATE = 4/27/2023	DATE -	REVISED -	

CROSS SECTIONS
I–74

SCALE: | SHEET 11 OF 14 SHEETS | STA. 2035+50.00 | TO STA. 2035+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	162
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. www.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -
			DRAWN -
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		PLOT DATE = 4/27/2023	DATE -

REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS I–74
REVISED -		
REVISED -		
REVISED -		

SCALE: | SHEET 12 OF 14 SHEETS | STA. 2036+00.00 | TO STA. 2036+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	163
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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

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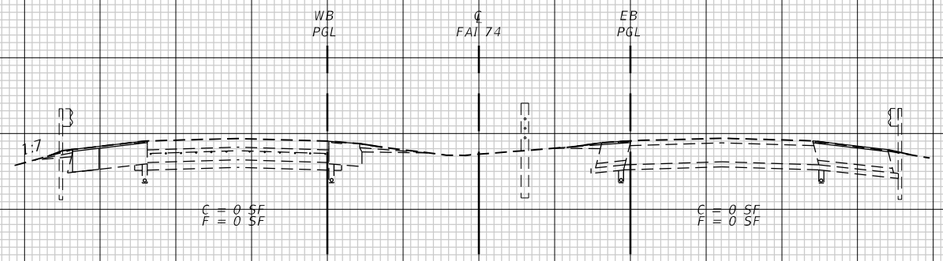
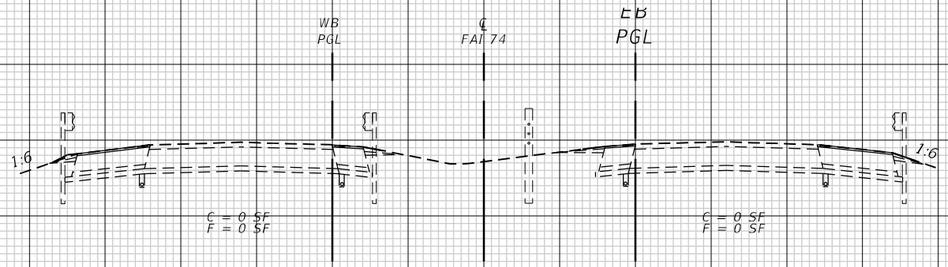
580



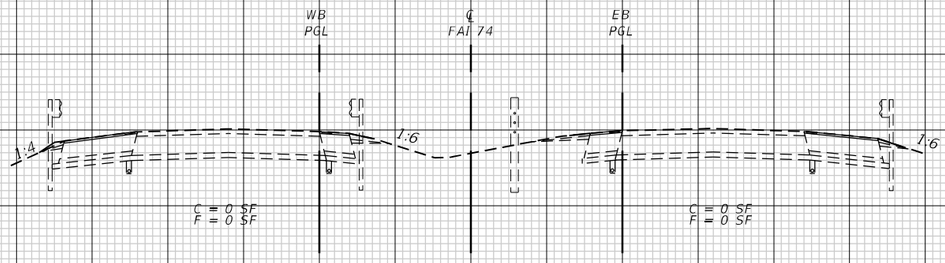
2043 + 00.00

580



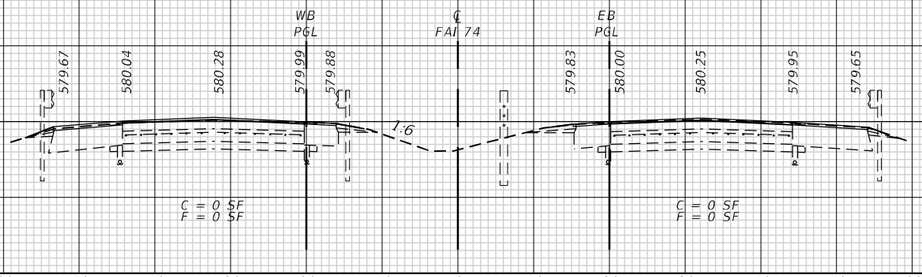
2042 + 00.00

580



2041 + 00.00

580



2040 + 00.00

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

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

MODEL: Default
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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 13 OF 14 SHEETS | STA. 2040+00.00 | TO STA. 2043+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	164
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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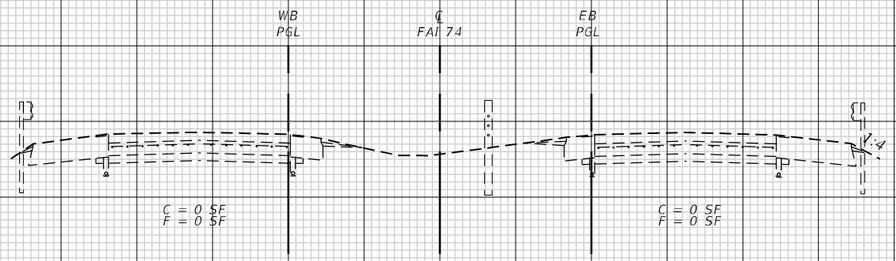
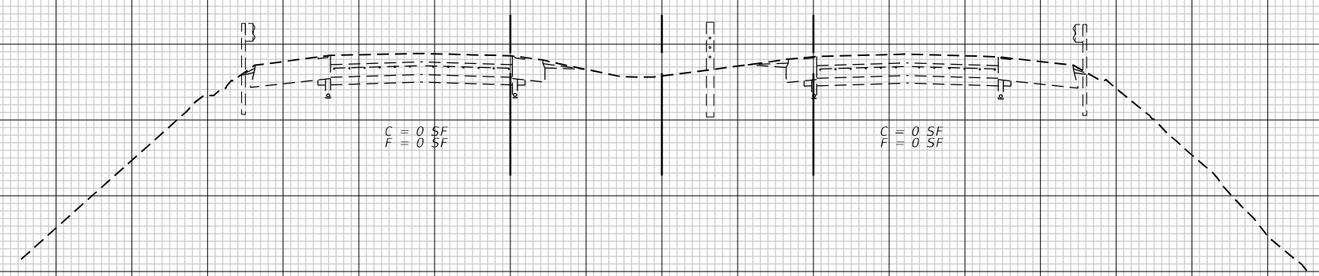
580



580

2045 + 00.00

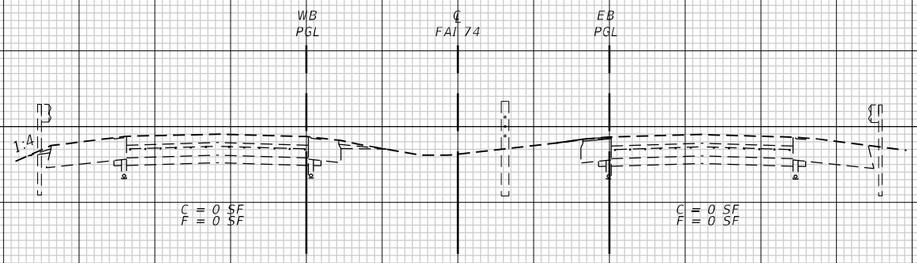
580



580

2044 + 69.39

END IMPROVEMENTS



580

580

2044 + 00.00

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

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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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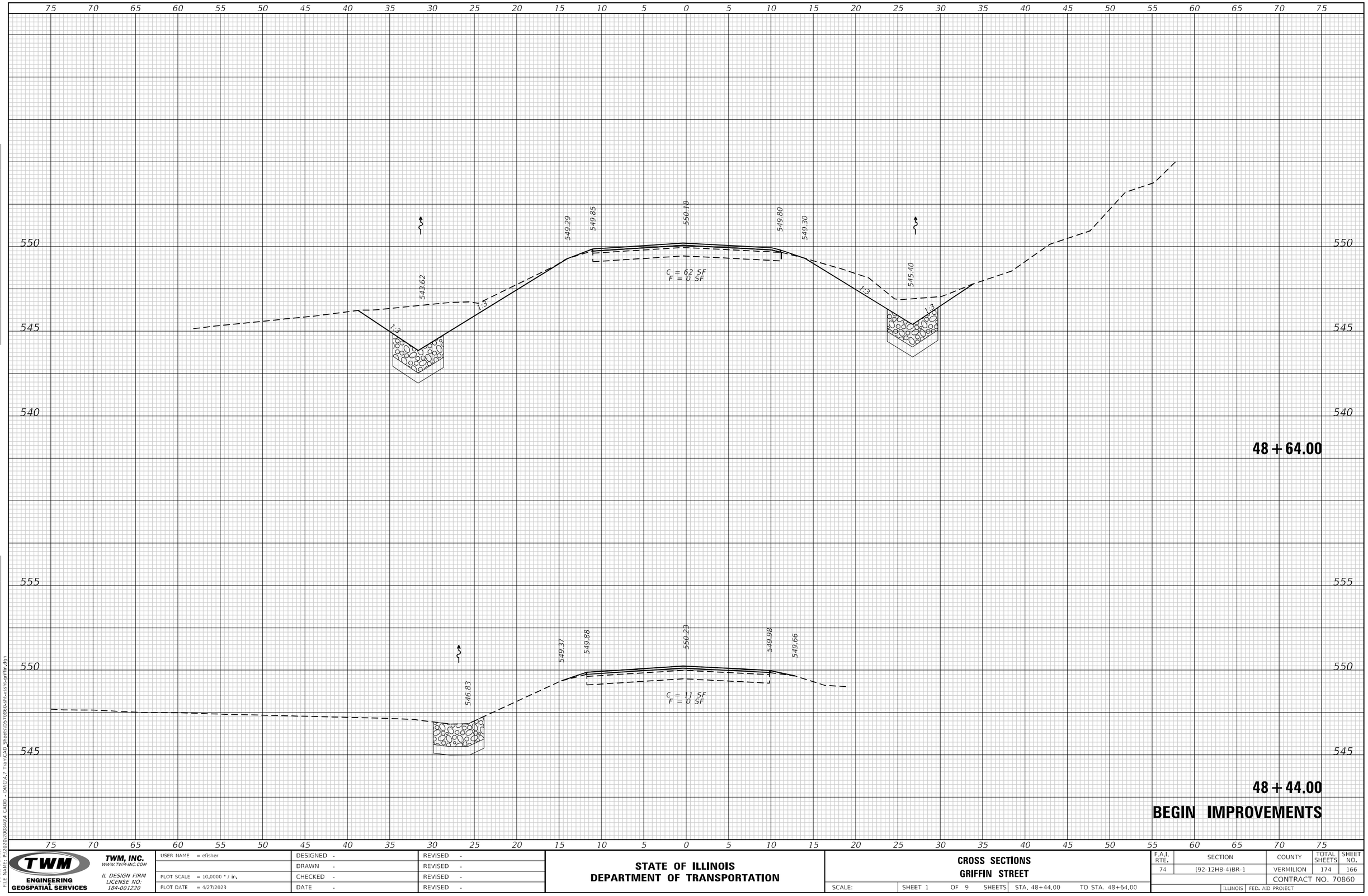
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I–74

SCALE: | SHEET 14 OF 14 SHEETS | STA. 2044+00.00 | TO STA. 2045+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	165
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



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

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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

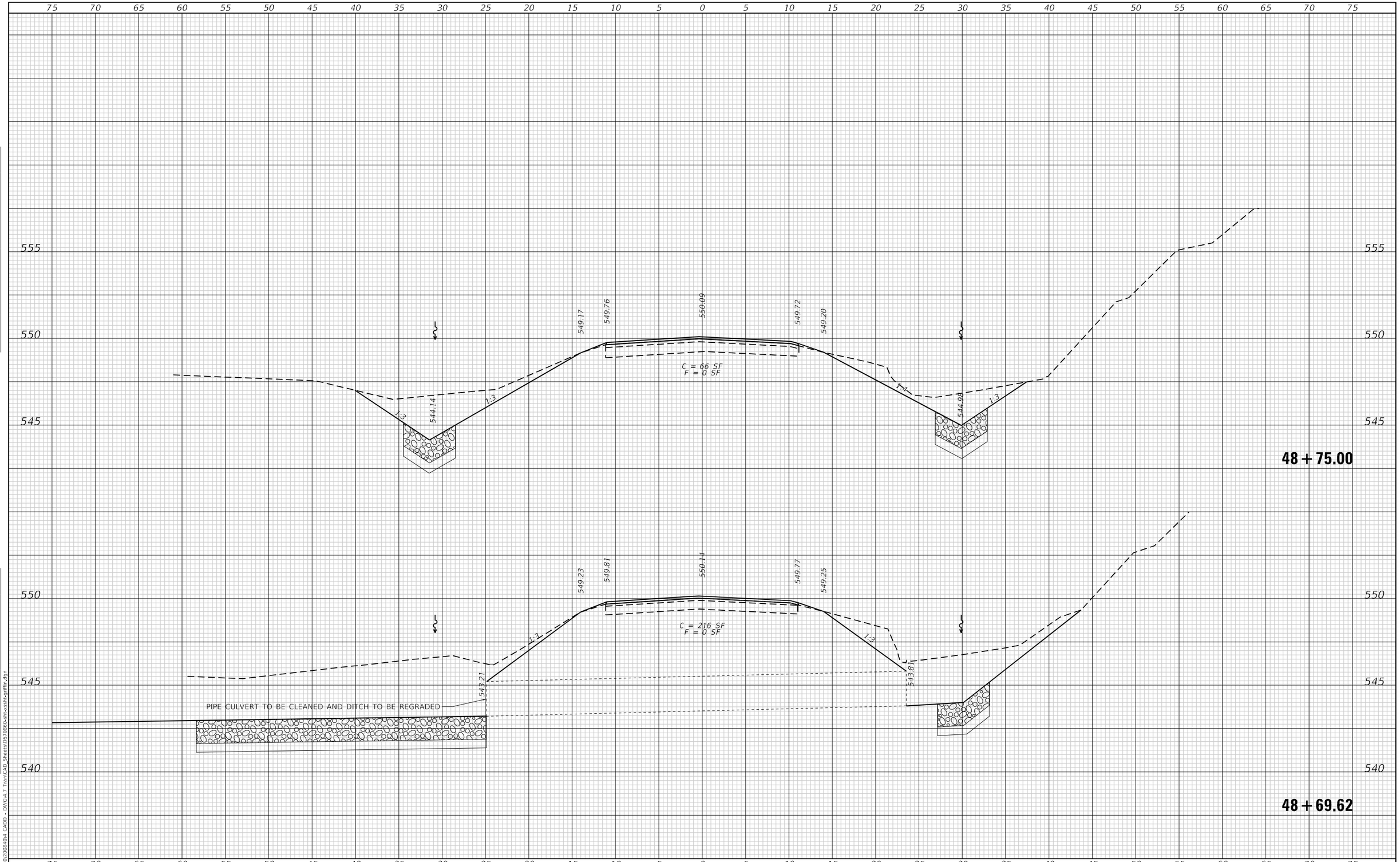
USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 1 OF 9 SHEETS | STA. 48+44.00 | TO STA. 48+64.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	166
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY — NOTE BOOK — NO. — BY — DATE
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ORIGINAL SURVEY — NOTE BOOK — NO. — BY — DATE
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TWM ENGINEERING GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM	IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
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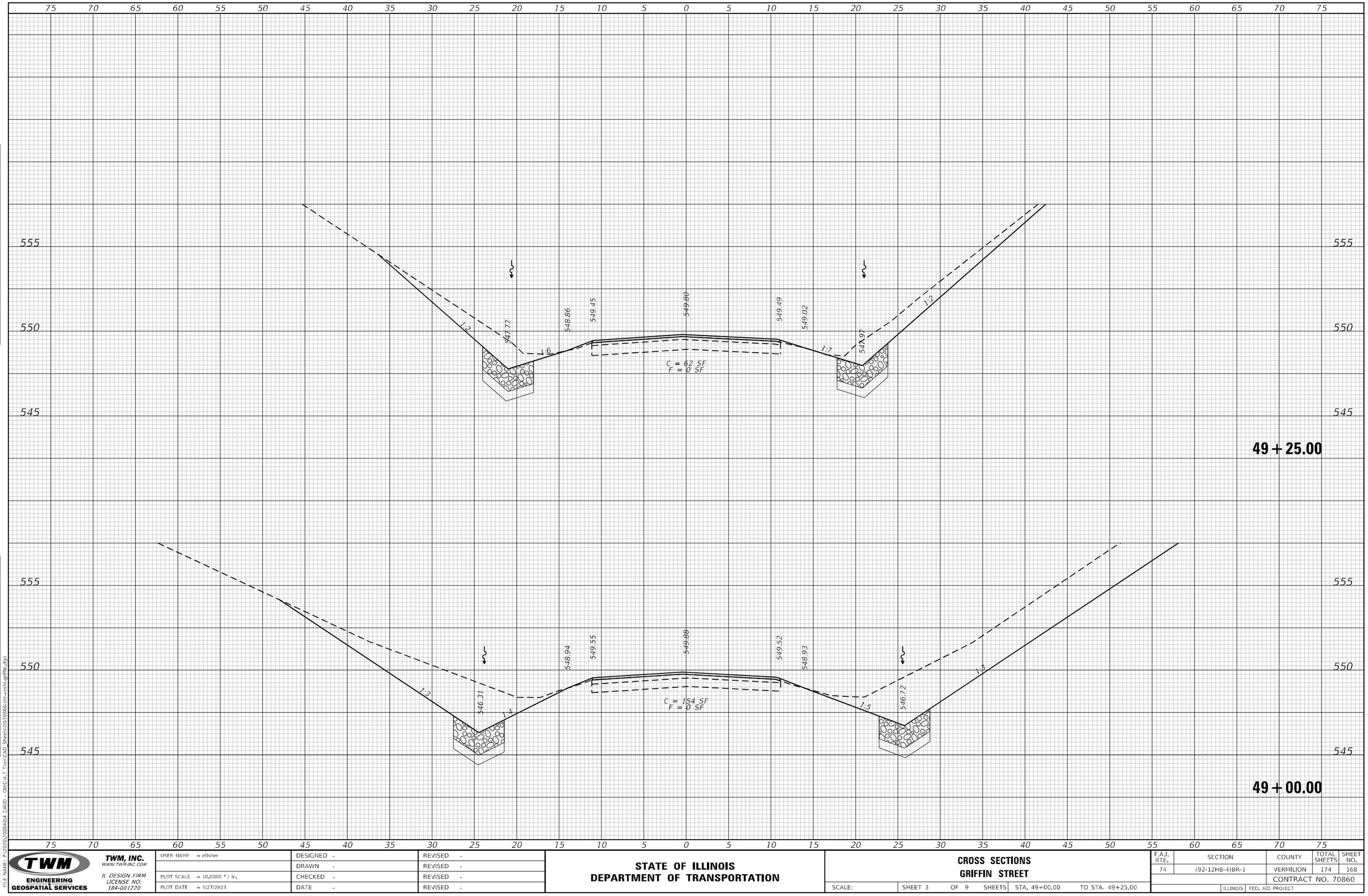
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 2 OF 9 SHEETS | STA. 48+69.62 | TO STA. 48+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	167
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 3 OF 9 SHEETS | STA. 49+00.00 | TO STA. 49+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	168
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		

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

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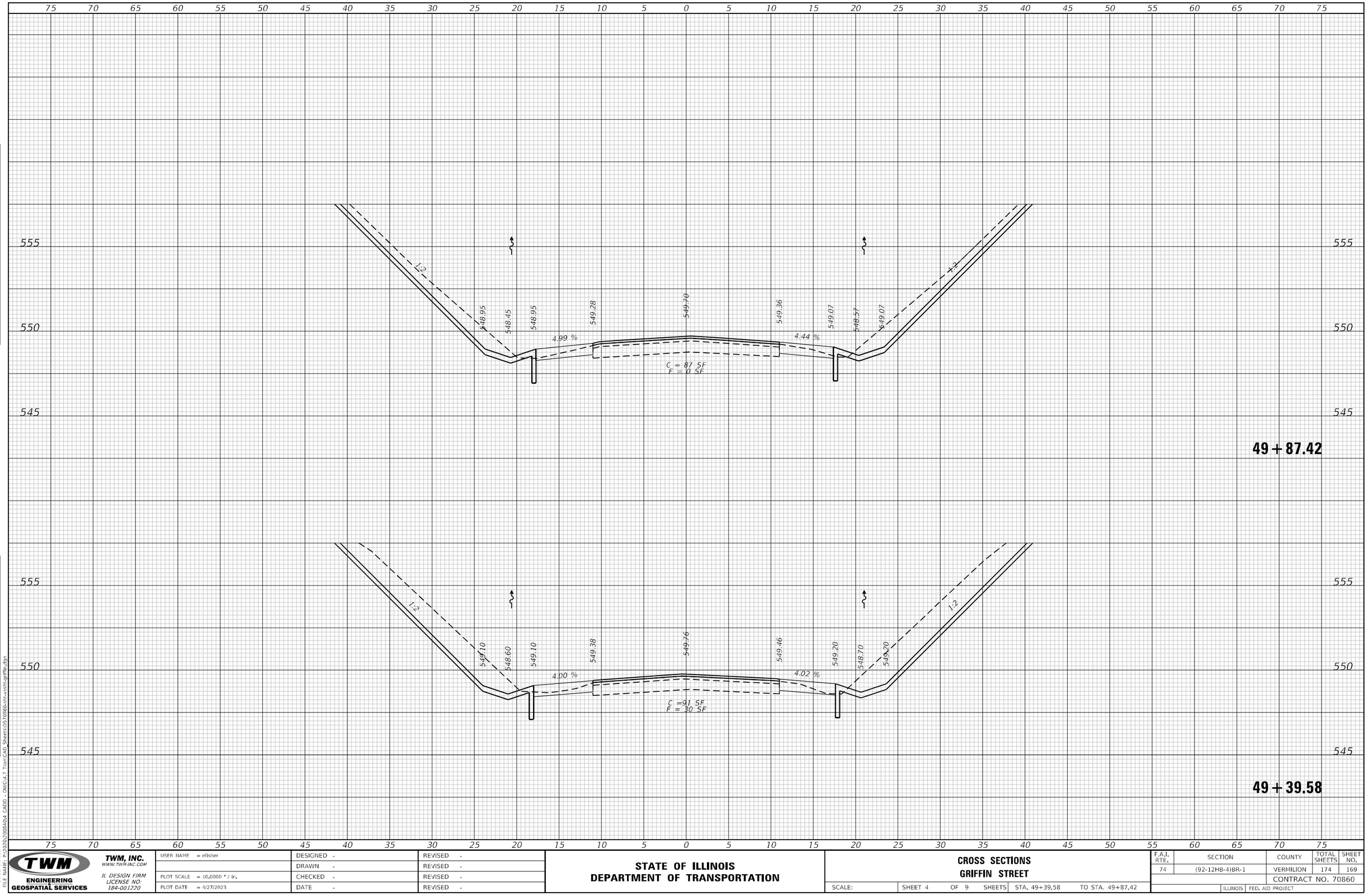

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ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM

IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher	DESIGNED -	REVISED -
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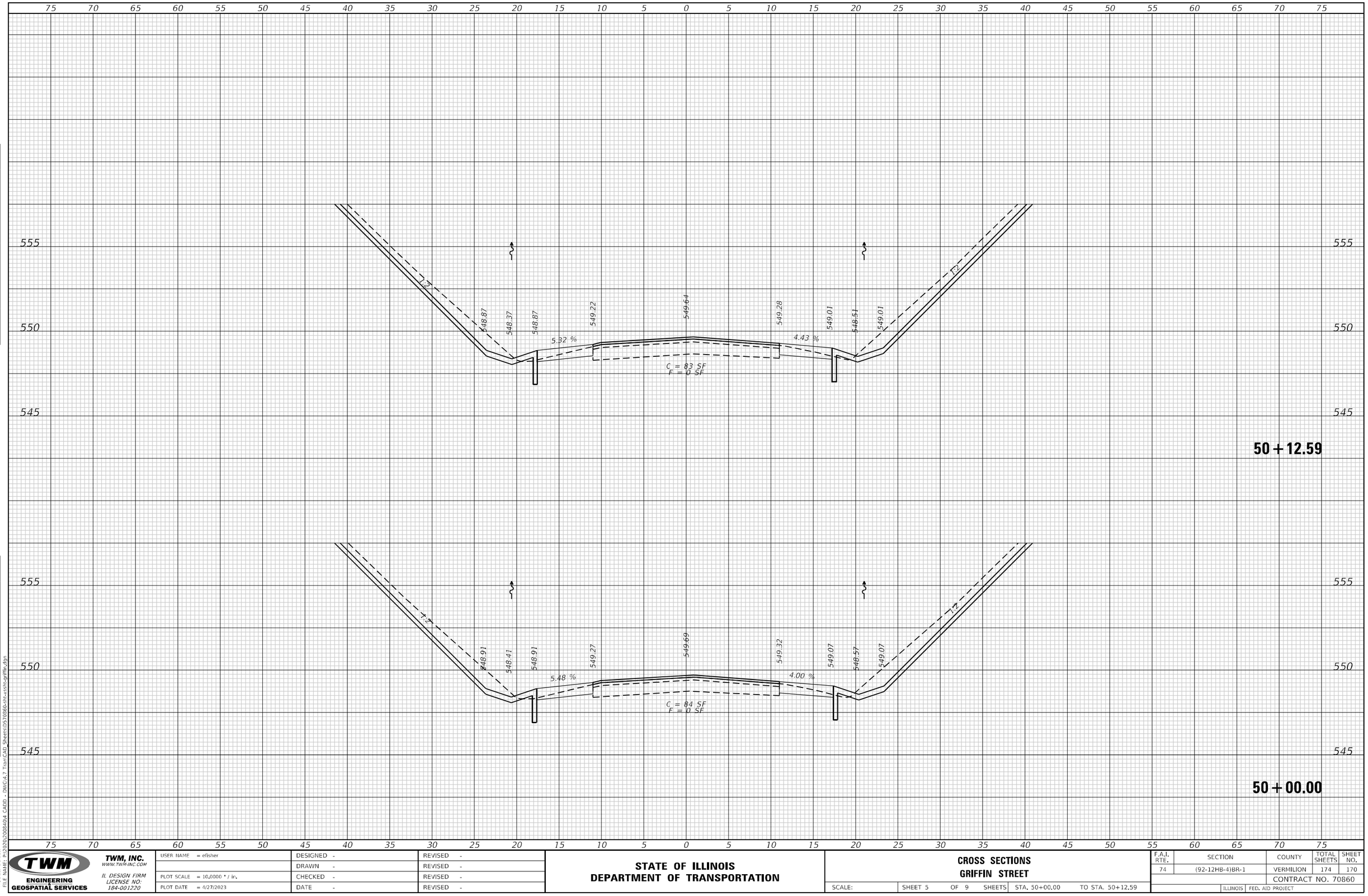
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 4 OF 9 SHEETS | STA. 49+39.58 | TO STA. 49+87.42

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	169
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
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FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
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AREAS CHECKED
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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
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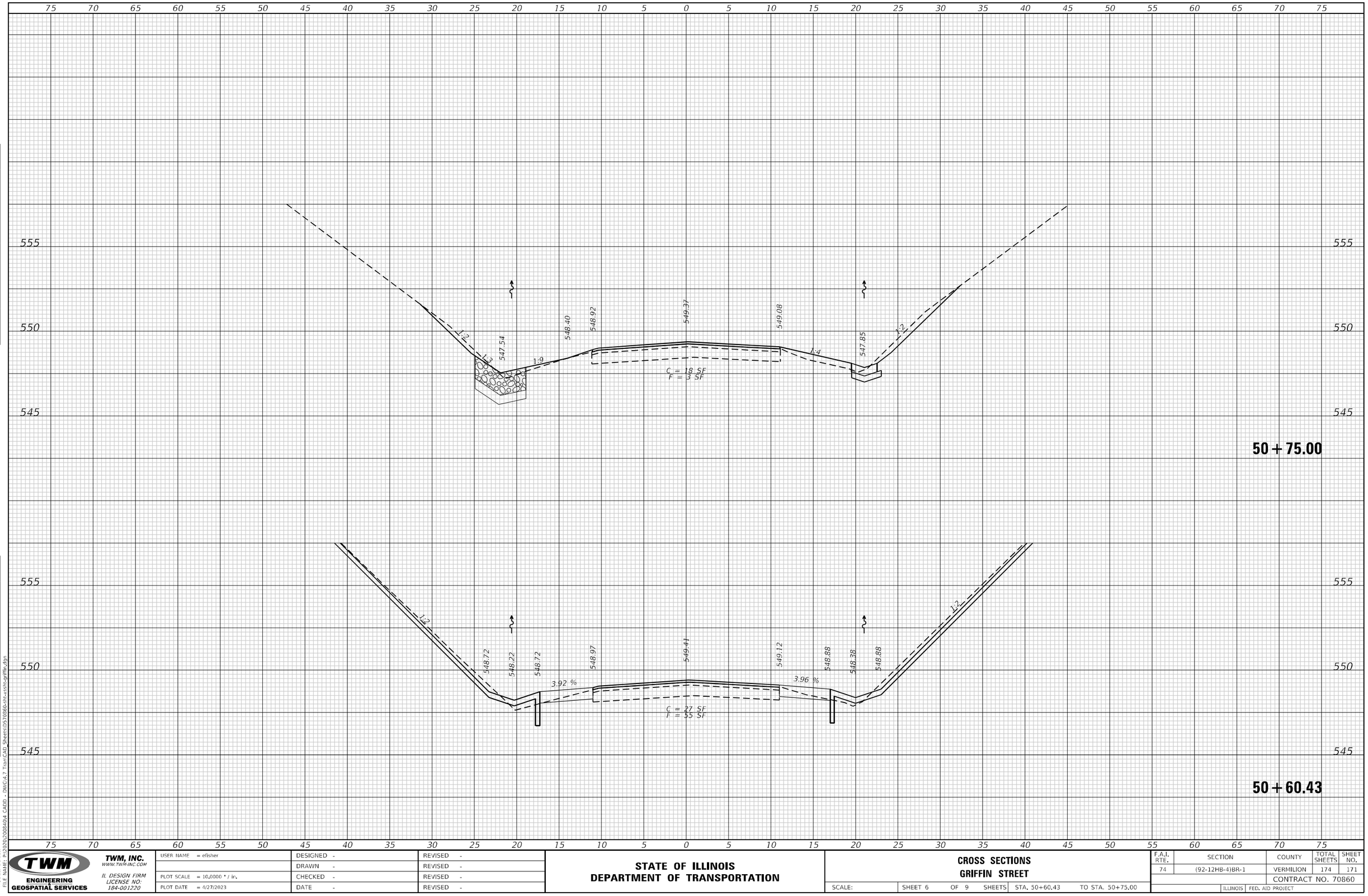
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 5 OF 9 SHEETS | STA. 50+00.00 | TO STA. 50+12.59

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	170
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
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ORIGINAL SURVEY

NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
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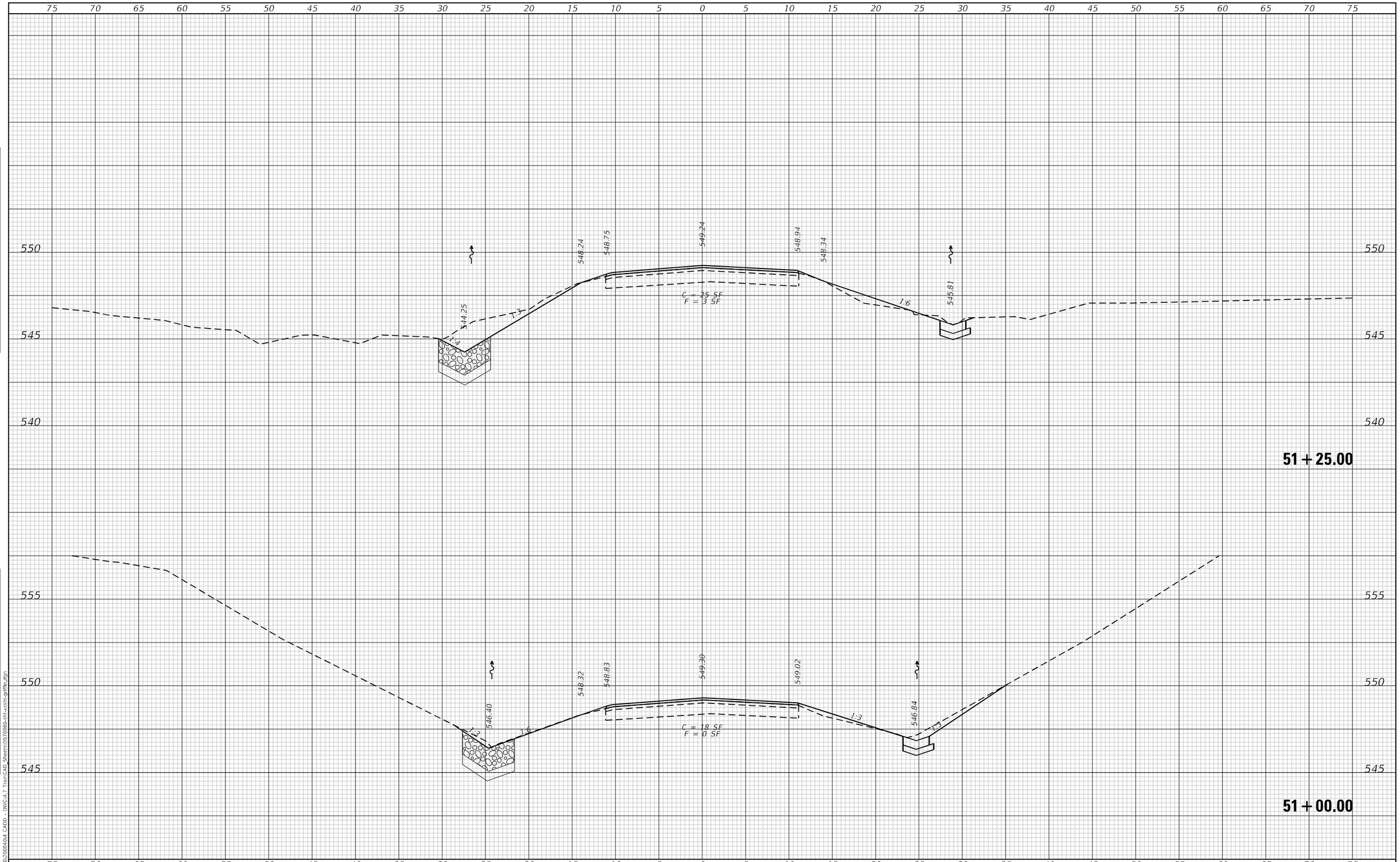
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 6 OF 9 SHEETS | STA. 50+60.43 | TO STA. 50+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	171
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY
NOTE BOOK
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SURVEYED
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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM LICENSE NO: 184-001220

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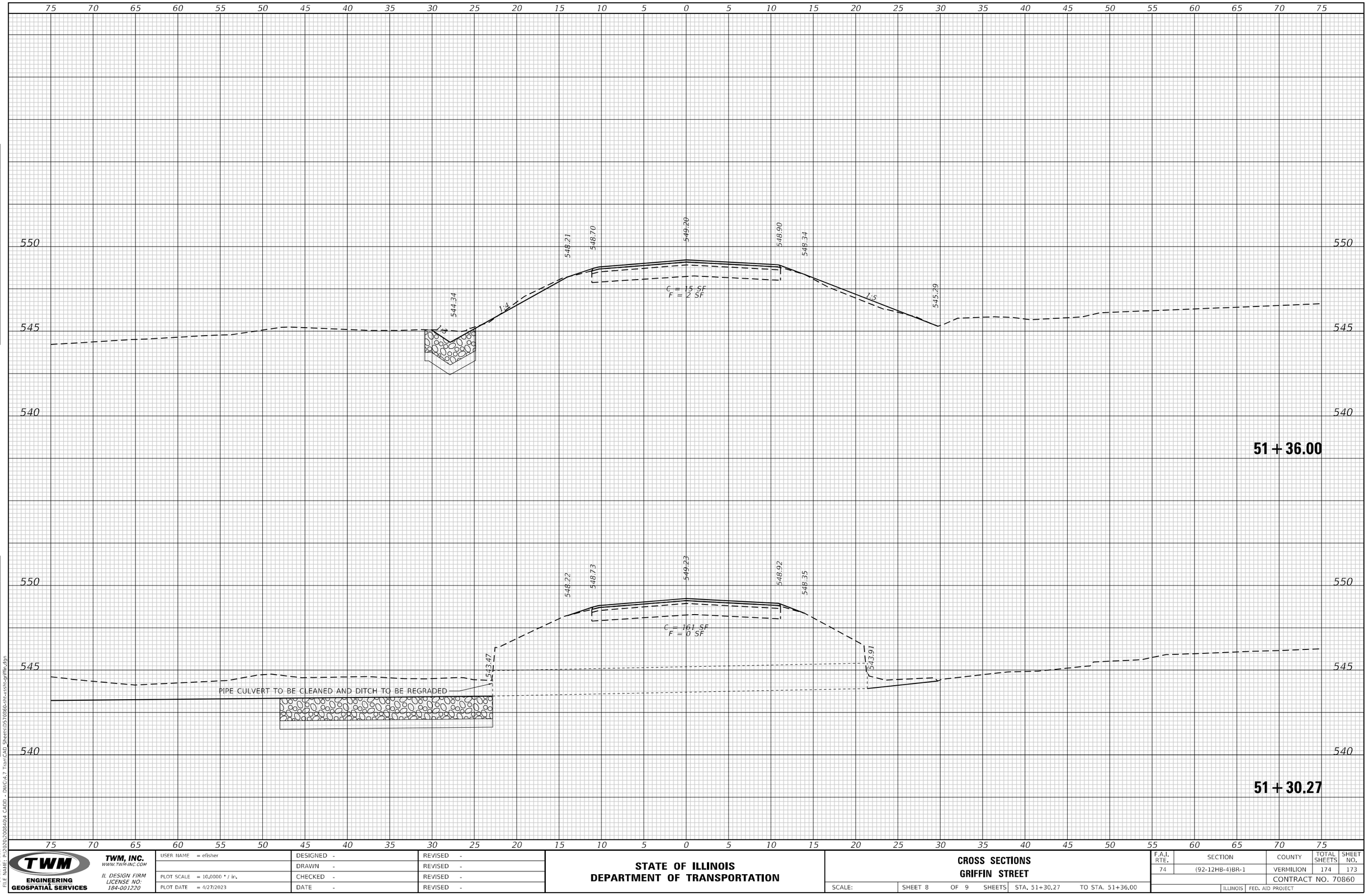
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 7 OF 9 SHEETS | STA. 51+00.00 | TO STA. 51+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	172
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		



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

DATE					
BY					
SURVEYED					
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TWM ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM

IL DESIGN FIRM LICENSE NO: 184-001220

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 8 OF 9 SHEETS | STA. 51+30.27 | TO STA. 51+36.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	173
		CONTRACT NO. 70860		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	
NOTE BOOK	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

BY	DATE
SURVEYED	
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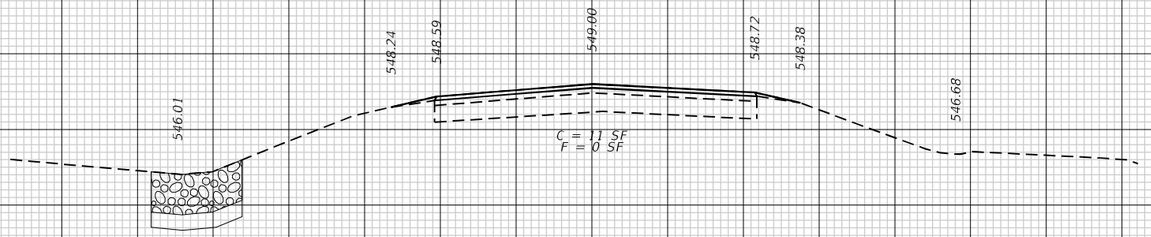

51 + 56.00

END IMPROVEMENTS

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TWM ENGINEERING & GEOSPATIAL SERVICES	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GRIFFIN STREET

SCALE: | SHEET 9 OF 9 SHEETS | STA. 51+56.00 | TO STA. 51+56.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12HB-4)BR-1	VERMILION	174	174
		CONTRACT NO. 70860		
	ILLINOIS	FED. AID PROJECT		