

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	1
		ILLINOIS	CONTRACT NO. 74352	

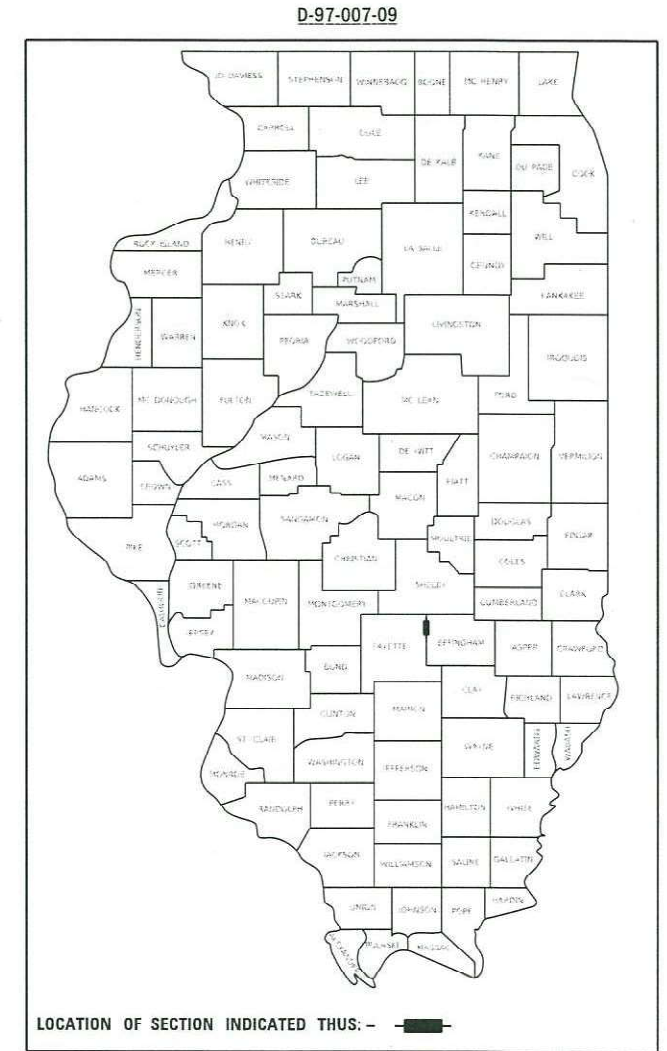
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED  
HIGHWAY PLANS**

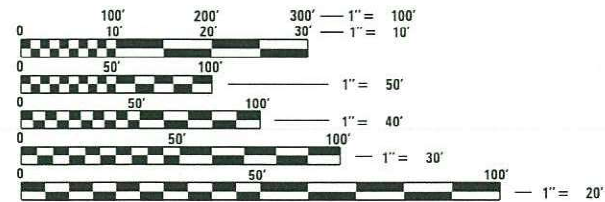
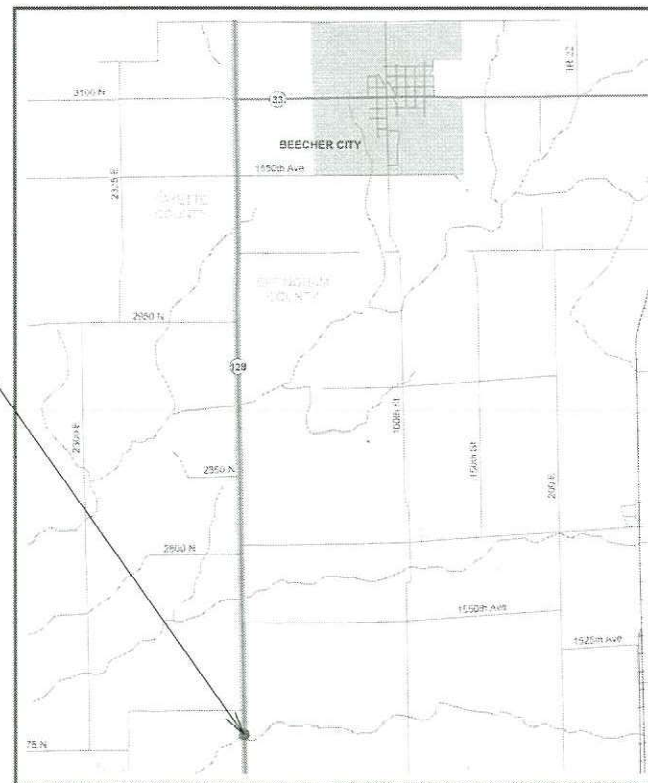
F.A.S ROUTE 2801 (IL. RTE. 128)  
SECTION (103BR)B-1  
PROJECT STP-3USZ(044)  
BRIDGE REPLACEMENT  
EFFINGHAM COUNTY

AADT = 1200 (2019)

C-97-030-09



EXISTING: SN 025-0065  
PROPOSED: SN 025-0110



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

PROJECT ENGINEER: MATT BOWER  
PROJECT MANAGER: DALTON LANE  
PHONE: (217)342-8359  
CONTRACT NO. 74352

GROSS LENGTH = 900 FT. = 0.35 MILE  
NET LENGTH = 900 FT. = 0.35 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 23 20 22  
Jeffrey P. Myer  
REGIONAL ENGINEER

October 14, 2022  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, & HIGHWAY STANDARDS
3-5	SUMMARY OF QUANTITIES
6-8	TYPICAL SECTIONS
9-10	SCHEDULE OF QUANTITIES
11-13	PLAN & PROFILE SHEETS
14	TRAFFIC CONTROL SHEET
15	EROSION CONTROL SHEET
16	R. O. W SHEET
17-38	STRUCTURE PLANS 025-0110
39-40	DETAILS
41-60	CROSS SECTION SHEETS

## HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606206-04	OUTLET TYPE 1 FOR TYPE B GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
667101-02	PERMANENT SURVEY MARKERS
668001-01	U. S. GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS RESETTING METHOD
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT

## GENERAL NOTES

THIS PROJECT IS LOCATED ON IL-128 OVER MOCASSIN CREEK IN EFFINGHAM COUNTY. THIS WORK INCLUDED ON STRUCTURE 025-0065 CONSISTS OF REMOVING AND REPLACING THE EXISTING BRIDGE, WITH STRUCTURE 025-0110, UTILIZING A ROAD CLOSURE, HOT-MIX ASPHALT RESURFACING, EARTHWORK, GUARDRAIL AND TRAFFIC BARRIER TERMINALS, PAVEMENT MARKING, SEEDING, AND ALL OTHER WORK NECESSARY TO COMPLETE THIS PROJECT.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 632 FEET OF YELLOW AND 1800 FEET OF WHITE.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 9 TWO-WAY AMBER MARKERS.

A TYPE II CAST IN PLACE PERMANENT SURVEY MARKER SHALL BE PLACED NEAR THE PROPOSED STRUCTURE. THE TABLET STYLE SHALL CONFORM TO STANDARD 667101-02 AND THE CAST IN PLACE BASE WILL CONFORM TO STANDARD 668001-01. THE LOCATION OF THE SURVEY MARKER SHALL BE DETERMINED BY THE ENGINEER AND THE CHIEF OF SURVEYS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT.

APPLICATION	AC/PG	DESIGN AIR	MIXTURE	FRICTION	QUALITY
		VOIDS	COMPOSITION	AGGREGATE	MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70 (2")	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/OA
HMA BINDER COURSE	PG 64-22	4.0% @ N=70	IL-19.0	N/A	QC/OA
HMA BASE COURSE, 12"	PG 64-22	4.0% @ N=70	IL-19.0	N/A	QC/OA
HMA SHOULDERS, 8" (TOP LIFT)	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/OA
HMA SHOULDERS, 8" (BOTTOM LIFT)	PG 64-22	4.0% @ N=70	IL-19.0	N/A	QC/OA

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

AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS (TACK COAT)	
MILLED SURFACE	0.05 LBS./SQ. FT.
BETWEEN HMA LIFTS	0.025 LBS./SQ. FT.
HOT-MIX ASPHALT	112 LBS./SQ. YD./INCH

## COMMITMENTS:

ANY DISTURBED AREAS SHALL BE RE-SEEDED WITH A CLASS 4 AND 5 SEED MIX IN ACCORDANCE WITH SECTION 250 OF IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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DRAWN -	REVISED -	2801			(103BR)B-1	EFFINGHAM	60	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74352				
PLOT DATE = 8/23/2022	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	



SUMMARY OF QUANTITIES			TOTAL QUANTITIES RURAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FED 20% STATE		
20100110	TREE REMOVAL ( 6 TO 15 UNITS DIAMETER)	UNIT	362	362		
20100210	TREE REMOVAL ( OVER 15 UNITS DIAMETER)	UNIT	60	60		
20200100	EARTH EXCAVATION	CU YD	29	29		
20400800	FURNISHED EXCAVATION	CU YD	1747	1747		
20700110	POROUS GRANULAR EMBANKMENT	TON	184	184		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	3283	3283		
25000310	SEEDING, CLASS 4	ACRE	0.75	0.75		
25000320	SEEDING, CLASS 5	ACRE	0.75	0.75		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	67.5	67.5		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	67.5	67.5		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	67.5	67.5		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.5	1.5		
25100105	MULCH, METHOD 1	ACRE	0.75	0.75		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	204	204		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES RURAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FED 20% STATE		
28000400	PERIMETER EROSION BARRIER	FOOT	1485	1485		
28100109	STONE RIPRAP, CLASS A5	SO YD	1193	1193		
28200200	FILTER FABRIC	SO YD	1193	1193		
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	14	14		
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SO YD	762	762		
35501332	HOT-MIX ASPHALT BASE COURSE, 12"	SO YD	1061	1061		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	102	102		
40600290	BITUMINOUS MATERIALS ( TACK COAT)	POUND	1271	1271		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	219	219		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	201	201		
42000060	WELDED WIRE REINFORCEMENT	SO YD	107	107		
42000080	PAVEMENT CONNECTOR ( PCC) FOR BRIDGE APPROACH SLAB	SO YD	107	107		
44000100	PAVEMENT REMOVAL	SO YD	106	106		

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PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF  
QUANTITIES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74352	

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SUMMARY OF QUANTITIES			TOTAL QUANTITIES RURAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FED 20% STATE		
4400400	GUTTER REMOVAL	FOOT	1195	1195		
44004250	PAVED SHOULDER REMOVAL	SQ YD	58	58		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	63	63		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	200	200		
50300225	CONCRETE STRUCTURES	CU YD	67.4	67.4		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	140.7	140.7		
50300260	BRIDGE DECK GROOVING	SQ YD	493	493		
50300300	PROTECTIVE COAT	SQ YD	639	639		
50301350	CONCRETE SUPERSTRUCTURE ( APPROACH SLAB)	CU YD	95.4	95.4		
50401315	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL36N	FOOT	523.5	523.5		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	73500	73500		
51201800	FURNISHING STEEL PILES HP14X73	FOOT	341	341		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES RURAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010 80% FED 20% STATE		
51202305	DRIVING PILES	FOOT	341	341		
51203800	TEST PILE STEEL HP14X73	EACH	1	1		
51500100	NAME PLATES	EACH	1	1		
54213447	END SECTIONS 12"	EACH	6	6		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	111	111		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	60	60		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		
60100945	PIPE DRAINS 12"	FOOT	192	192		
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	135	135		
60403500	GRATES, TYPE B	EACH	6	6		
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	17.6	17.6		
60602800	CONCRETE GUTTER, TYPE B	FOOT	901	901		
61000050	CONCRETE THRUST BLOCKS	EACH	6	6		

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PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF  
QUANTITIES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	4
CONTRACT NO. 74352			ILLINOIS FED. AID PROJECT	

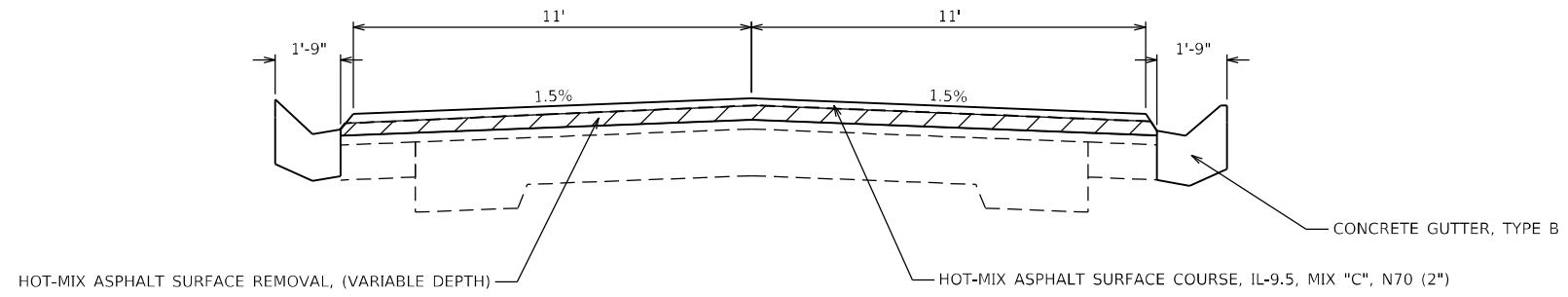




**PROPOSED TYPICAL SECTIONS**

STA. 1082+62 TO STA. 1083+00

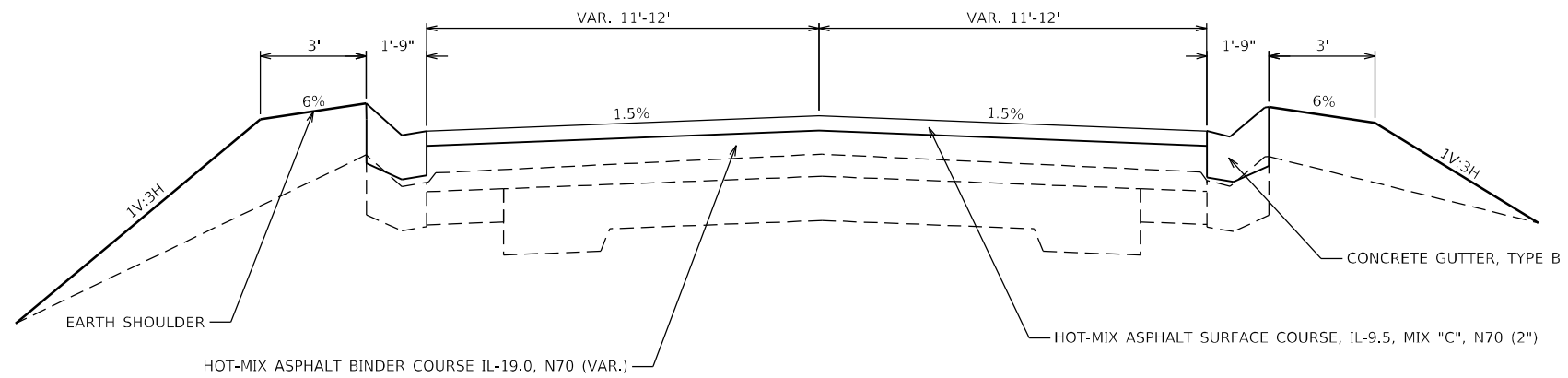
STA. 1091+25 TO STA. 1091+62



**PROPOSED TYPICAL SECTIONS**

STA. 1083+00 TO STA. 1084+30

STA. 1089+90 TO STA. 1091+25



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS**

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

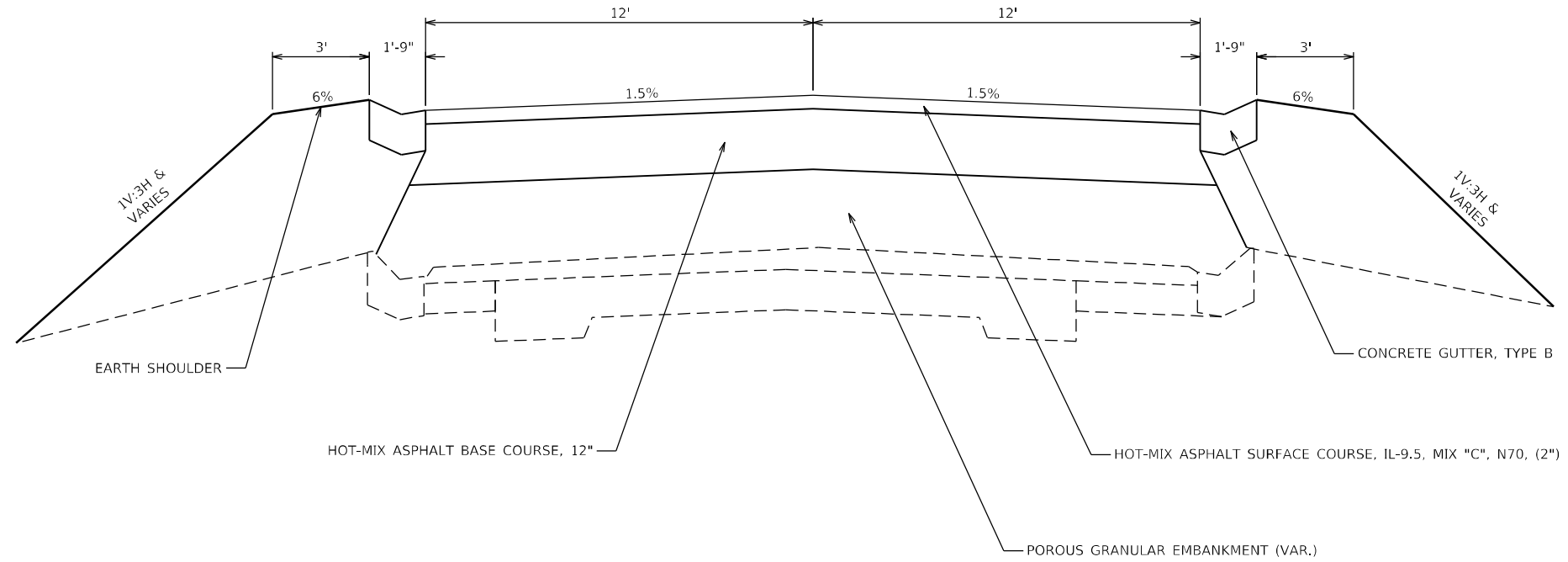
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	6
CONTRACT NO. 74352			ILLINOIS FED. AID PROJECT	

PROPOSED TYPICAL SECTIONS

STA. 1084+30 TO STA. 1085+10

STA. 1089+15 TO STA. 1089+90

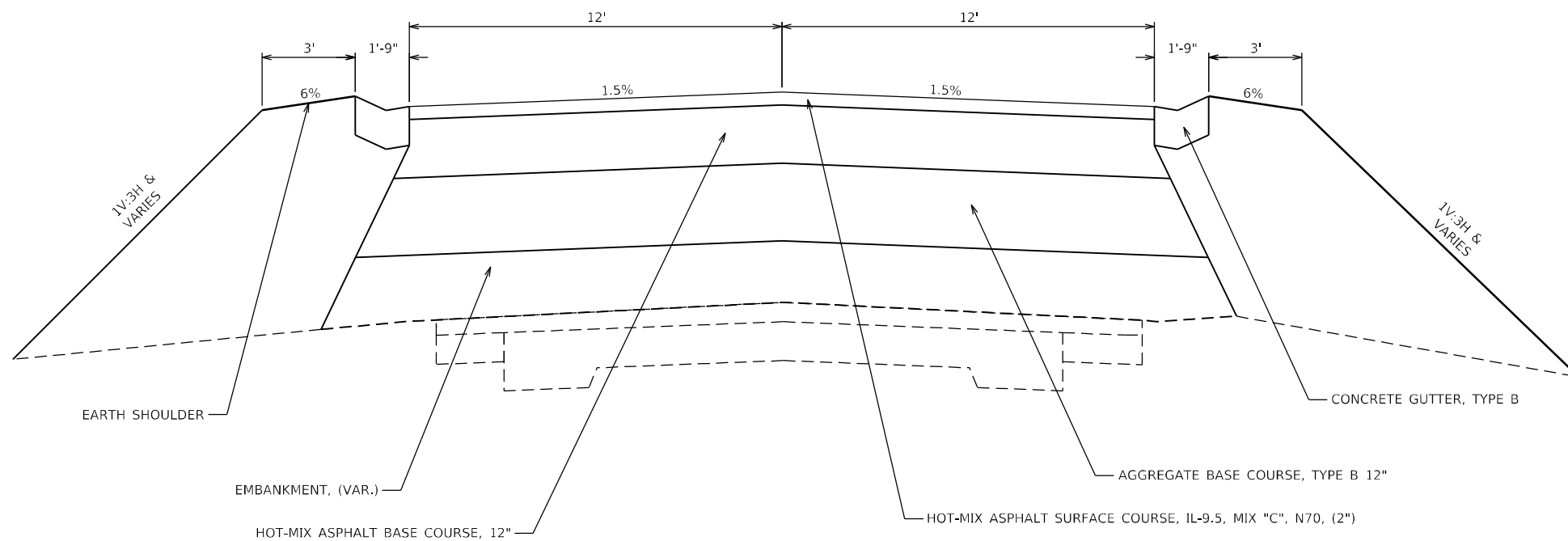
STA. 1089+15 TO STA. 1089+35 IS HMA SHOULDER



PROPOSED TYPICAL SECTIONS

STA. 1085+10 TO STA. 1086+50

STA. 1088+99 TO STA. 1089+15



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

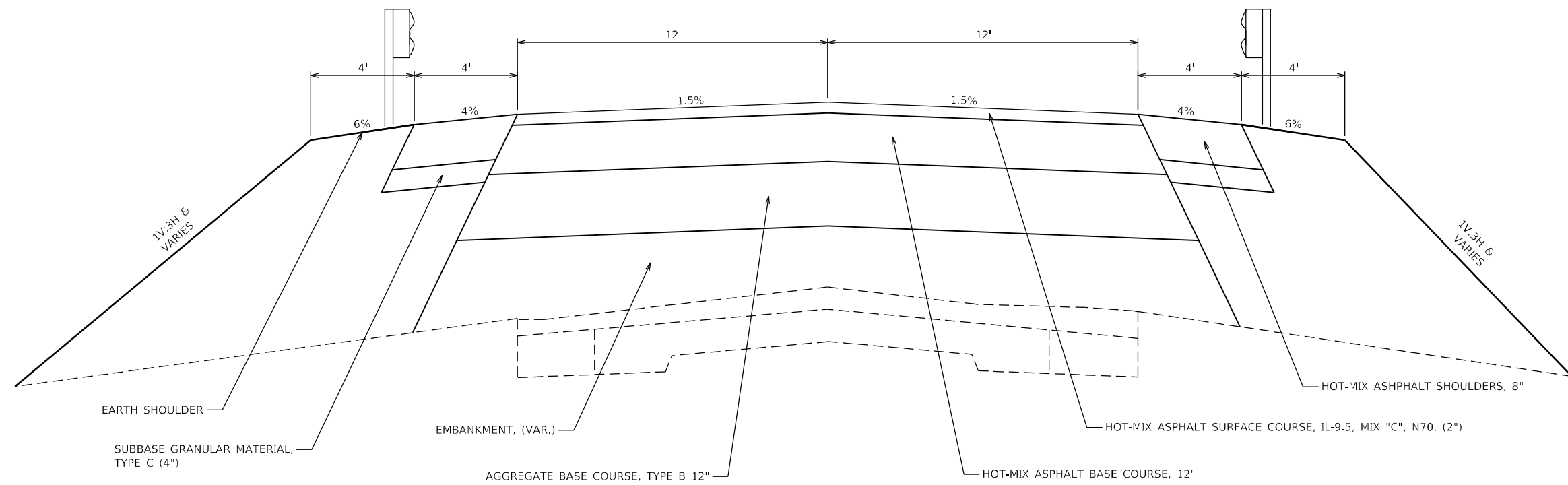
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	7
			CONTRACT NO. 74352	
		ILLINOIS	FED. AID PROJECT	

PROPOSED TYPICAL SECTIONS

STA. 1086+50 TO STA. 1087+21

STA. 1088+99 TO STA. 1089+15



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	8
			CONTRACT NO. 74352	
ILLINOIS FED. AID PROJECT				



RESURFACING SCHEDULE													
STATION	TO	STATION	LENGTH	PAVEMENT BREAKING	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	POROUS GRANULAR EMBANKMENT	AGGREGATE BASE COURSE, TYPE B 12"	HOT-MIX ASPHALT BASE COURSE, 12"	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	WELDED WIRE REINFORCEMENT
			FOOT	SQ YD	SQ YD	TON	SQ YD	SQ YD	POUND	TON	TON	SQ YD	SQ YD
1082+62.00	TO	1083+00.00	38.0	-	92.9	-	-	-	41.8	-	10.4	-	-
1083+00.00	TO	1083+50.00	50.0	-	122.2	-	-	-	82.5	12.9	13.7	-	-
1083+50.00	TO	1084+30.00	80.0	-	195.6	-	-	-	138.0	92.5	22.9	-	-
1084+30.00	TO	1085+10.00	80.0	204.4	-	94.9	-	222.2	144.0	-	23.9	-	-
1085+10.00	TO	1087+21.00	211.0	539.2	-	-	609.6	586.1	379.8	-	63.0	-	-
1087+21.00	TO	1087+36.00	15.0	46.7	-	-	53.3	-	-	-	-	53.3	53.3
1087+36.00	TO	1088+84.00	148.0	-	-	-	-	-	-	-	-	-	-
1088+84.00	TO	1088+99.00	15.0	45.0	-	-	53.3	-	-	-	-	53.3	53.3
1088+99.00	TO	1089+15.00	16.0	39.1	-	-	46.2	44.4	28.8	-	4.8	-	-
1089+15.00	TO	1089+90.00	75.0	183.3	-	89.0	-	208.3	135.0	-	22.4	-	-
1089+90.00	TO	1090+50.00	60.0	-	146.7	-	-	-	108.0	90.0	17.9	-	-
1090+50.00	TO	1091+25.00	75.0	-	183.3	-	-	-	129.4	24.0	21.5	-	-
1091+25.00	TO	1091+62.00	37.0	-	90.4	-	-	-	40.7	-	10.1	-	-
TOTALS:			1058	831	184	762	1061	1228	219	201	107	107	
									SHOULDER QUANTITY=	43			
									PROJECT TOTAL=	1271			

CONCRETE GUTTER SCHEDULE										
STATIONING	LENGTH	ENTRANCE OMISSION	CONCRETE GUTTER, TYPE B	CLASS SI CONCRETE (OUTLET)	GRATES, TYPE B	PIPE DRAINS 12"	CONCRETE ANCHRS	CONCRETE THRUST BLOCKS	END SECTIONS 12"	
FROM	TO	FEET	FEET	FEET	CU YD	EACH	FEET	EACH	EACH	
1083+00.00	1085+24.25	224.25	62.7	385.8	-	-	-	-	-	
1085+24.25	1085+50.00	25.75	-	-	-	-	-	-	-	
1085+50.00	1086+24.25	74.25	-	148.5	-	-	-	-	-	
1086+24.25	1086+50.00	25.75	-	-	-	-	-	-	-	
1086+50.00	1088+99.00	249.00	-	-	-	-	-	-	-	
1088+99.00	1089+30.75	31.75	-	-	-	-	-	-	-	
1089+30.75	1091+30.00	199.25	32.0	366.5	-	-	-	-	-	
STATIONING		LT/RT								
1084+71.80		RT	-	-	2.2	-	-	-	-	
1084+70.30		LT	-	-	2.2	-	-	-	-	
1085+24.25		LT	-	-	1.7	1	29.0	2	1	
1085+24.25		RT	-	-	1.7	1	28.0	2	1	
1086+24.25		RT	-	-	1.7	1	27.0	2	1	
1086+24.25		LT	-	-	1.7	1	35.0	2	1	
1089+30.75		LT	-	-	2.1	1	28.0	2	1	
1089+30.75		RT	-	-	2.1	1	45.0	2	1	
1091+12.40		LT	-	-	2.2	-	-	-	-	
TOTALS :			901	17.6	6	192	12	6	6	

SHOULDER SCHEDULE								
STATIONING	LENGTH	LT WIDTH	RT WIDTH	HOT MIX ASPHALT SHOULDERS, 8"	SUBBASE GRANULAR MATERIAL, TYPE C	BITUMINOUS MATERIALS (TACK COAT)		
FROM	TO	FEET	FEET	SQ YD	TON	POUND		
1086+50.00	1087+21.00	71.0	4.0	4.0	63.1	14.4	42.6	
SHOULDER TOTALS:				63	14	43		
MAINLINE QUANTITY=						1228		
PROJECT TOTAL=						1271		

ENTRANCE SCHEDULE						
STATION	LT/RT	WIDTH FRONT	WIDTH BACK	DEPTH	AGGREGATE SURFACE COURSE, TYPE B	NOTES
		FEET	FEET	FEET	TON	
1084+71.80	RT	23.2	13.0	23.9	32.8	12' THICK
1084+78.30	LT	22.6	11.0	23.9	30.5	12' THICK
1091+12.40	LT	23.5	14.7	10.0	6.0	5" THICK
1084+71.80	RT	13.0	10.5	26.1	11.6	12"-0" THICK
1084+78.30	LT	11.0	10.5	26.1	21.3	12" THICK
TOTAL=					102	

PAVEMENT MARKING SCHEDULE						
STATION	TO	STATION	LENGTH	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	RAISED REFLECTIVE PAVEMENT MARKER
			FEET	FEET	FEET	EACH
1082+62	TO	1087+55	493	1109	1109	-
1087+55	TO	1091+62	407	1323	1323	-
1082+62	TO	1087+21	459	-	-	6
1088+99	TO	1091+62	263	-	-	3
TOTALS			2432	2432	9	

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF**  
**QUANTITIES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	9
			CONTRACT NO. 74352	
		ILLINOIS	FED. AID PROJECT	

PAVEMENT REMOVAL								
STATIONING		LENGTH	WIDTH	SHOULDER WIDTH	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	APPROACH SLAB REMOVAL	
FROM	TO	FEET	FEET	FEET	SQ YD	SQ YD	SQ YD	
1087+36.00	1087+56.70	20.70	19.0	10.5	43.7	24.1	-	
1087+56.70	1087+78.70	22.00	39.0	-	-	-	95.3	
1087+78.70	1088+32.30	53.60	-	-	-	-	-	
1088+32.30	1088+54.30	22.00	39.0	-	-	-	95.3	
1088+54.30	1088+84.00	29.70	19.0	10.25	62.7	33.8	-	
TOTALS					106	58	191	

GUTTER REMOVAL SCHEDULE			
STATIONING		LENGTH	GUTTER REMOVAL
FROM	TO	FOOT	FOOT
1083+00.00	1085+30.00	230.00	460
1085+30.00	1085+53.00	23.00	63
1085+53.00	1086+37.00	84.00	168
1086+37.00	1086+75.00	38.00	86.2
1086+75.00	1089+20.50	245.50	-
1089+20.50	1089+40.00	19.50	37.3
1089+40.00	1091+30.00	190.00	380
TOTAL =			1195

STATION TO STATION	TOPSOIL & SEEDING									
	TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 4	SEEDING, CLASS 5	TEMPORARY EROSION CONTROL SEEDING	NITROGEN FERTILIZER NURTIENT	PHOSPHORUS FERTILIZER NURTIENT	POTASSIUM FERTILIZER NURTIENT	MULCH, METHOD 1	AGRICULTURAL GROUND LIMESTONE	
	SQ YD	ACRE	ACRE	POUND	POUND	POUND	POUND	ACRE	TON	
1082+62.0 TO 1082+75.0	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
1082+75.0 TO 1083+00.0	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
1083+00.0 TO 1083+25.0	0.00	0.001	0.001	0.08	0.07	0.07	0.07	0.00	0.00	
1083+25.0 TO 1083+50.0	3.90	0.006	0.006	0.59	0.53	0.53	0.53	0.01	0.01	
1083+50.0 TO 1083+75.0	28.39	0.015	0.015	1.54	1.38	1.38	1.38	0.02	0.03	
1083+75.0 TO 1084+00.0	74.33	0.024	0.024	2.40	2.16	2.16	2.16	0.02	0.05	
1084+00.0 TO 1084+25.0	116.08	0.028	0.028	2.76	2.48	2.48	2.48	0.03	0.06	
1084+25.0 TO 1084+50.0	133.50	0.028	0.028	2.81	2.53	2.53	2.53	0.03	0.06	
1084+50.0 TO 1084+75.0	136.18	0.014	0.014	1.42	1.28	1.28	1.28	0.01	0.03	
1084+75.0 TO 1085+00.0	68.92	0.015	0.015	1.51	1.36	1.36	1.36	0.02	0.03	
1085+00.0 TO 1085+25.0	73.15	0.031	0.031	3.10	2.79	2.79	2.79	0.03	0.06	
1085+25.0 TO 1085+50.0	150.03	0.030	0.030	3.04	2.74	2.74	2.74	0.03	0.06	
1085+50.0 TO 1085+75.0	147.16	0.030	0.030	2.98	2.68	2.68	2.68	0.03	0.06	
1085+75.0 TO 1086+00.0	144.38	0.032	0.032	3.15	2.84	2.84	2.84	0.03	0.06	
1086+00.0 TO 1086+25.0	152.49	0.034	0.034	3.40	3.06	3.06	3.06	0.03	0.07	
1086+25.0 TO 1086+50.0	164.68	0.035	0.035	3.53	3.18	3.18	3.18	0.04	0.07	
1086+50.0 TO 1086+75.0	171.08	0.034	0.034	3.41	3.07	3.07	3.07	0.03	0.07	
1086+75.0 TO 1087+00.0	165.10	0.033	0.033	3.35	3.01	3.01	3.01	0.03	0.07	
1087+00.0 TO 1087+25.0	161.92	0.034	0.034	3.43	3.08	3.08	3.08	0.03	0.07	
1087+25.0 TO 1087+50.0	165.86	0.036	0.036	3.57	3.21	3.21	3.21	0.04	0.07	
1087+50.0 TO 1087+75.0	172.80	0.018	0.018	1.83	1.65	1.65	1.65	0.02	0.04	
1087+75.0 TO 1088+00.0	88.55	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
1088+00.0 TO 1088+25.0	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
1088+25.0 TO 1088+50.0	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
1088+50.0 TO 1088+75.0	0.00	0.022	0.022	2.24	2.01	2.01	2.01	0.02	0.04	
1088+75.0 TO 1089+00.0	108.22	0.038	0.038	3.76	3.38	3.38	3.38	0.04	0.08	
1089+00.0 TO 1089+25.0	182.03	0.037	0.037	3.73	3.35	3.35	3.35	0.04	0.07	
1089+25.0 TO 1089+50.0	180.37	0.031	0.031	3.07	2.76	2.76	2.76	0.03	0.06	
1089+50.0 TO 1089+75.0	148.59	0.018	0.018	1.76	1.58	1.58	1.58	0.02	0.04	
1089+75.0 TO 1090+00.0	85.06	0.018	0.018	1.83	1.65	1.65	1.65	0.02	0.04	
1090+00.0 TO 1090+25.0	88.73	0.015	0.015	1.45	1.31	1.31	1.31	0.01	0.03	
1090+25.0 TO 1090+50.0	70.33	0.008	0.008	0.81	0.73	0.73	0.73	0.01	0.02	
1090+50.0 TO 1090+75.0	39.40	0.006	0.006	0.57	0.51	0.51	0.51	0.01	0.01	
1090+75.0 TO 1091+00.0	27.50	0.005	0.005	0.48	0.43	0.43	0.43	0.00	0.01	
1091+00.0 TO 1091+25.0	23.39	0.002	0.002	0.22	0.20	0.20	0.20	0.00	0.00	
1091+25.0 TO 1091+50.0	10.64	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
1091+50.0 TO 1091+62.0	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS =	3283	0.68	0.68	204	61	61	61	0.68	1.4	
USE =		0.75	0.75	67.5	67.5	67.5	67.5	0.75	1.5	

TREE REMOVAL SCHEDULE				
STATIONING		LT/RT	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
FROM	TO		UNIT	UNIT
1084+25.00	1087+80.00	RT	169.3	59.6
1088+30.00	1089+50.00	RT	163.1	-
1088+30.00	1088+70.00	LT	29.7	-
TOTALS :			362	60

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION	EARTH EX 25% ADJ.	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
SN 025-0110				
STA.1083+25 TO 1091+25	29.3	22.0	1769.2	-1747.2

EROSION BARRIER SCHEDULE			
STATIONING		LT/RT	PERIMETER EROSION BARRIER
FROM	TO		FEET
1083+00.00	1084+68.00	RT	186.4
1084+82.00	1087+45.00	RT	284.0
1088+65.00	1091+16.00	RT	265.3
1083+00.00	1084+73.00	LT	190.6
1084+84.50	1087+48.50	LT	293.4
1088+61.50	1091+09.00	LT	265.7
TOTAL:			1485

GUARDRAIL SCHEDULE								
LOCATION	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE C	TRAFFIC BARRIER TERMINAL TYPE L, SPECIAL (TANGENT)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE B	TERMINAL MARKERS-DIRECT APPLIE
	FOOT	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH
NORTHEAST CORNER	75	1	1	-	200.0	4	2	1
SOUTHEAST CORNER	137	1	1	125.0	-	4	2	1
NORTHWEST CORNER	163	1	1	-	200.0	4	2	1
SOUTHWEST CORNER	125	1	1	62.5	-	4	2	1
TOTALS=	500	4	4	188	400	16	8	4

\*4 ON EACH BRIDGE

SIGN SCHEDULE					
LOCATION	LT/RT	EXISTING OFFSET FEET	SIGN TYPE	REMOVE, STORE AND RE-ERECT SIGN PANEL SQ FT	TELESCOPING STEEL SIGN SUPPORT FEET
1087+31.50	LT	20.8	W2-2	6.25	13
1087+31.50	LT	20.8	W14-3	6	
TOTALS:				12	13

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF  
QUANTITIES

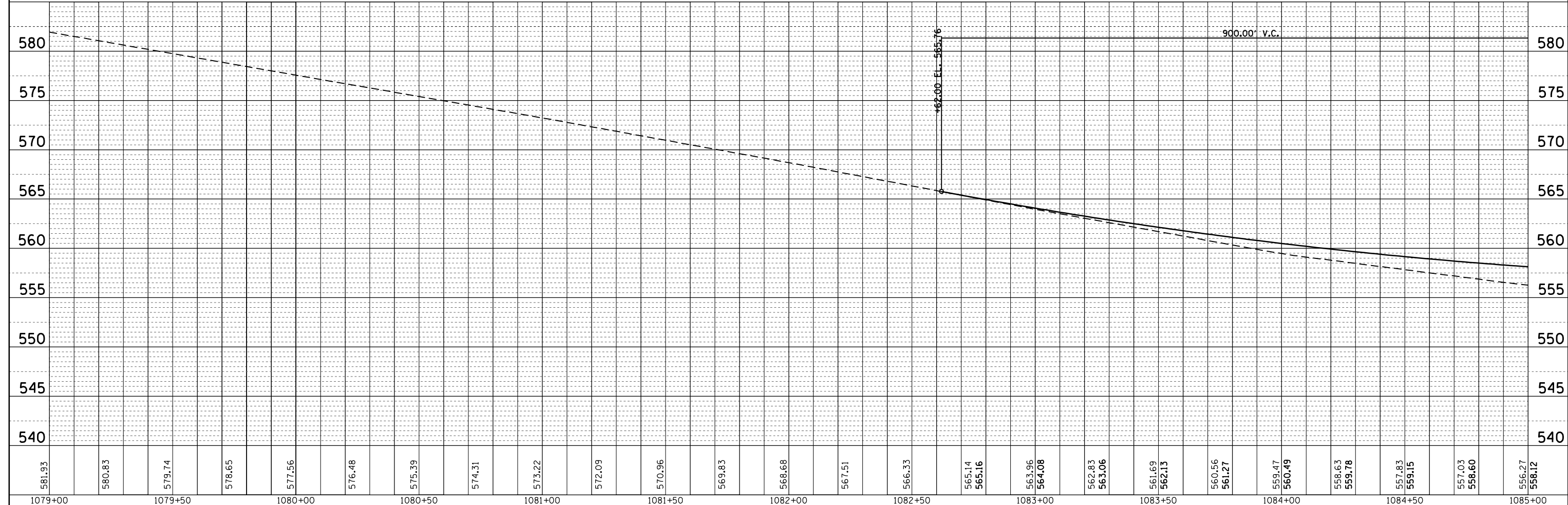
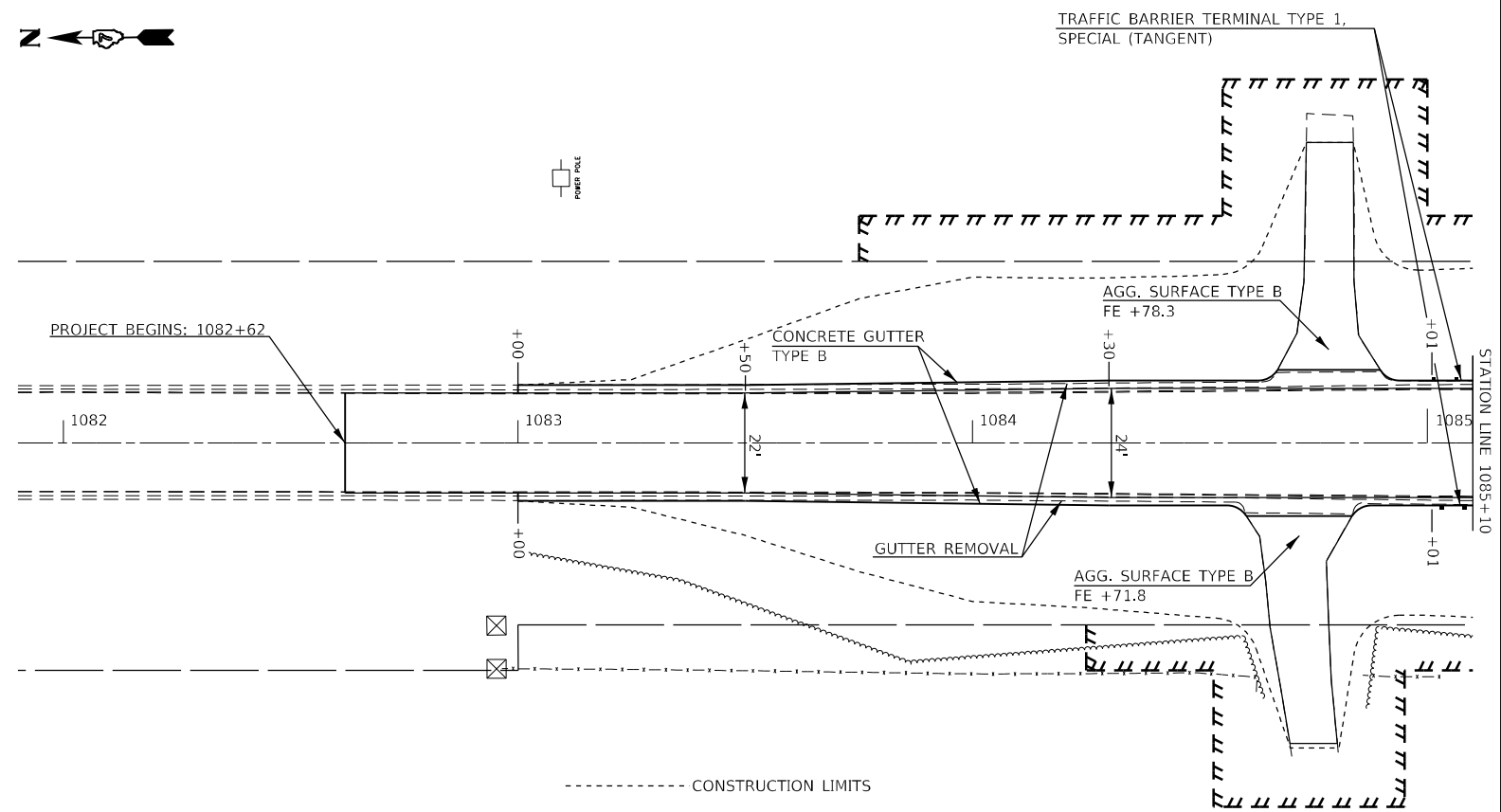
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE. 2801	SECTION (103BR)-1	COUNTY EFFINGHAM	TOTAL SHEETS 60	SHEET NO. 10
CONTRACT NO. 74352			ILLINOIS FED. AID PROJECT	

REV. - MS

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

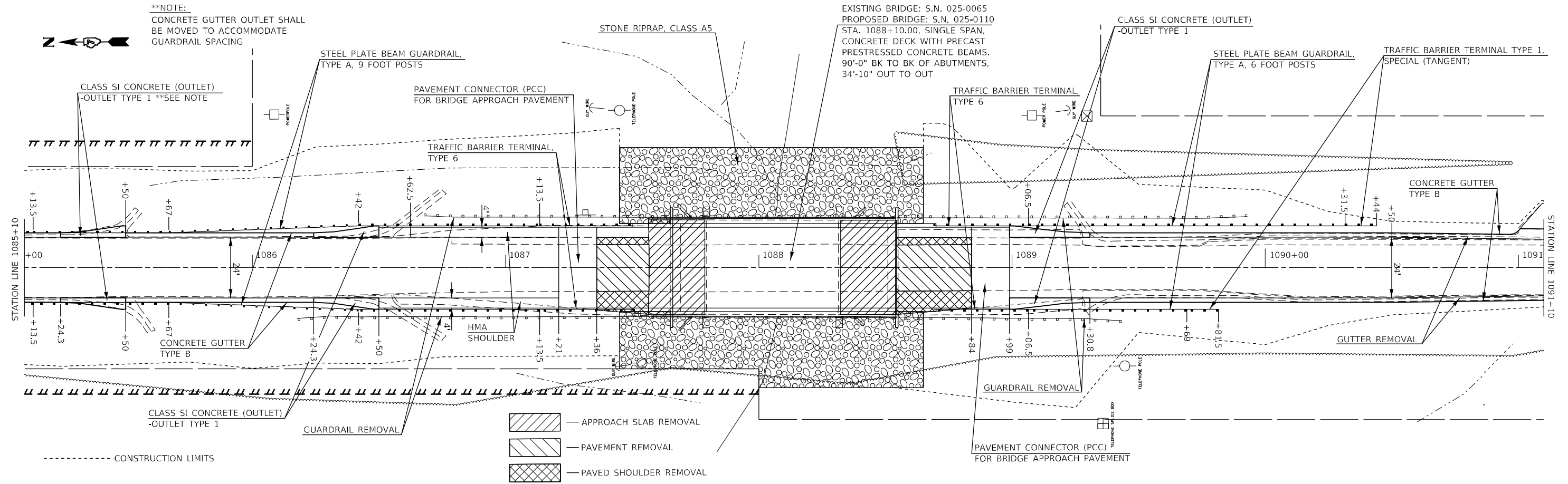
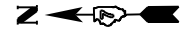
**PLAN & PROFILE 025-0110**

SCALE: 20      SHEET NO. 1 OF 3 SHEETS      STA. 1079+00 TO STA. 1085+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	11
CONTRACT NO. 74352			ILLINOIS FED. AID PROJECT	

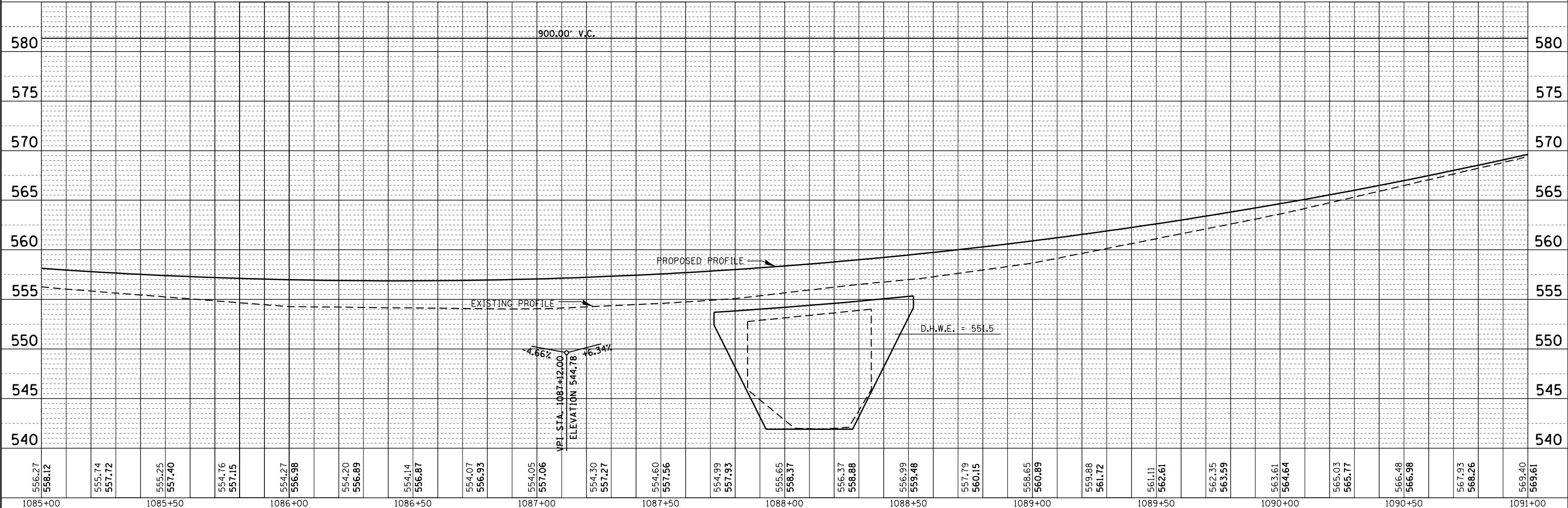


**\*\*NOTE:**  
CONCRETE GUTTER OUTLET SHALL BE MOVED TO ACCOMMODATE GUARDRAIL SPACING



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	DESIGNED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



556.27	558.12	555.74	557.72	555.25	557.40	554.76	557.15	554.27	556.98	554.20	556.89	554.14	556.87	554.07	556.93	554.05	557.06	554.30	557.27	554.60	557.56	554.99	557.93	555.65	558.37	556.37	558.88	556.99	559.48	557.79	560.15	558.65	560.89	559.88	561.72	561.11	562.61	562.35	563.59	563.61	564.64	565.03	565.77	566.48	566.98	567.93	568.26	569.40	569.61
1085+00		1085+50		1086+00		1086+50		1087+00		1087+50		1088+00		1088+50		1089+00		1089+50		1090+00		1090+50		1091+00																									

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE 025-0110**

SCALE: 20 SHEET NO. 2 OF 3 SHEETS STA. 1085+00 TO STA. 1091+00

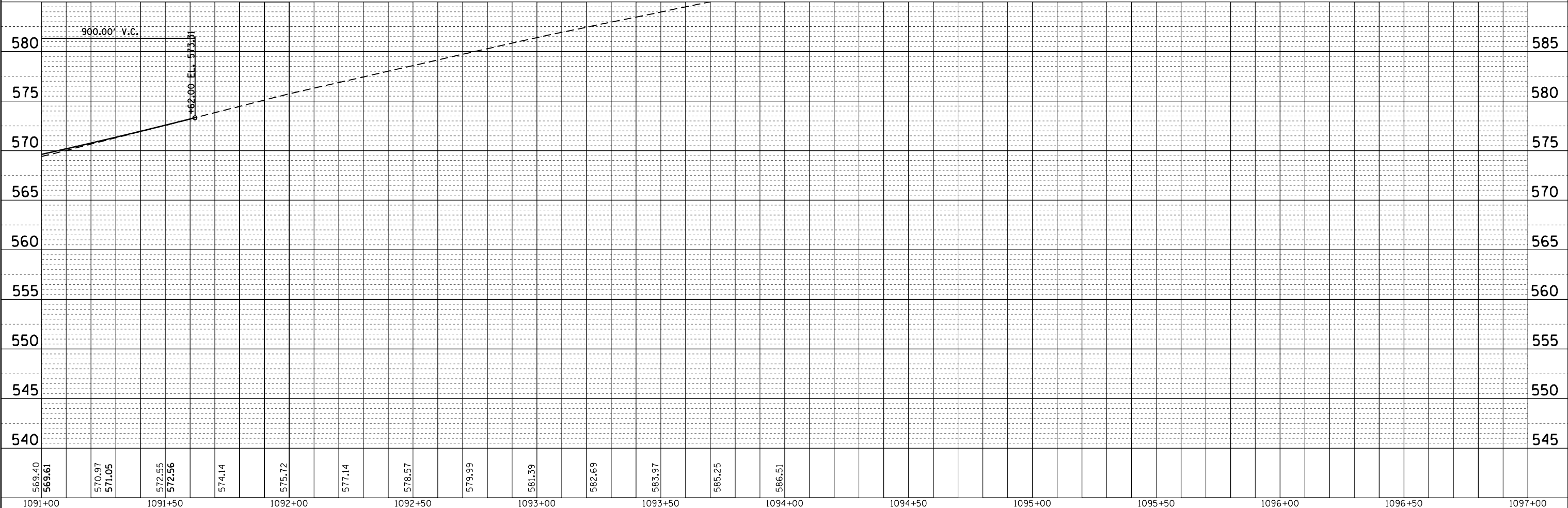
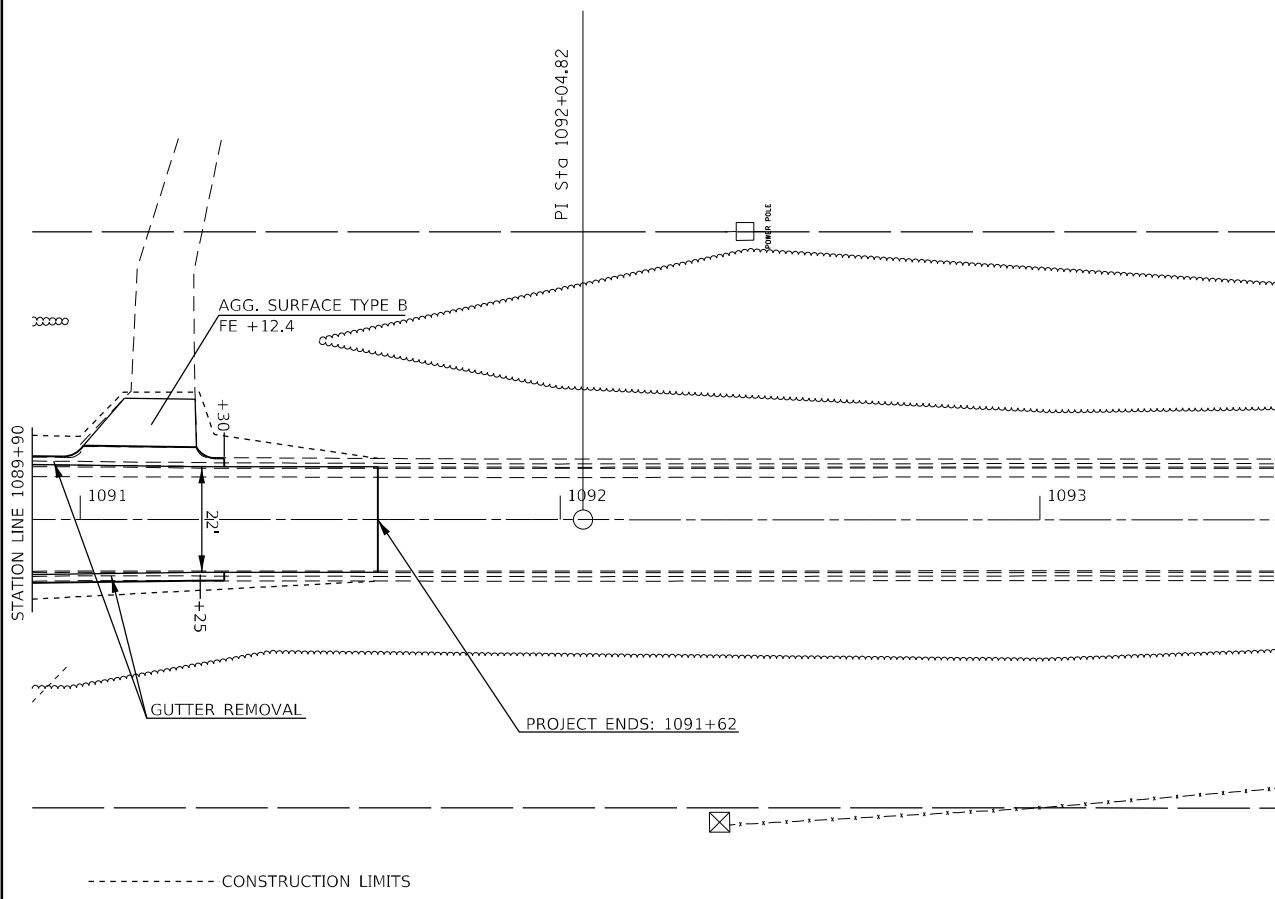
F.A.S. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	12
CONTRACT NO. 74352			ILLINOIS FED. AID PROJECT	

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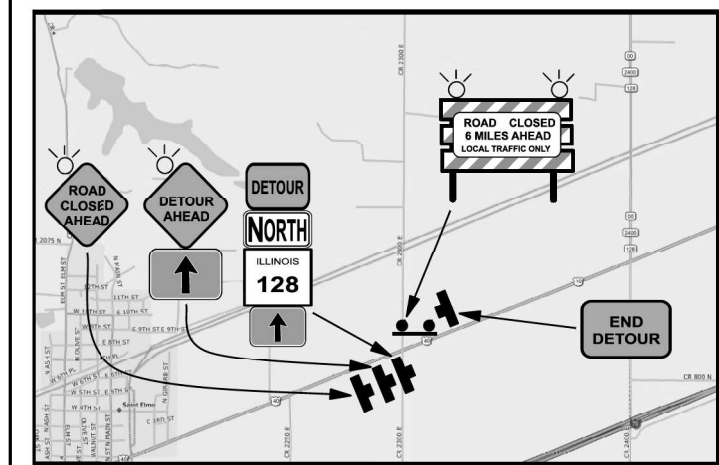
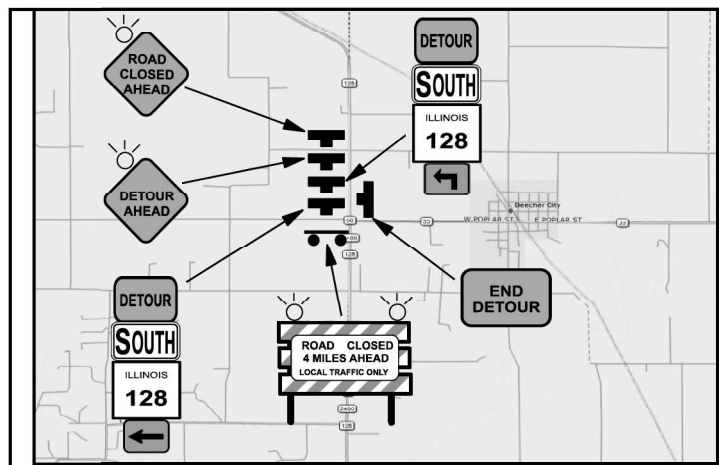
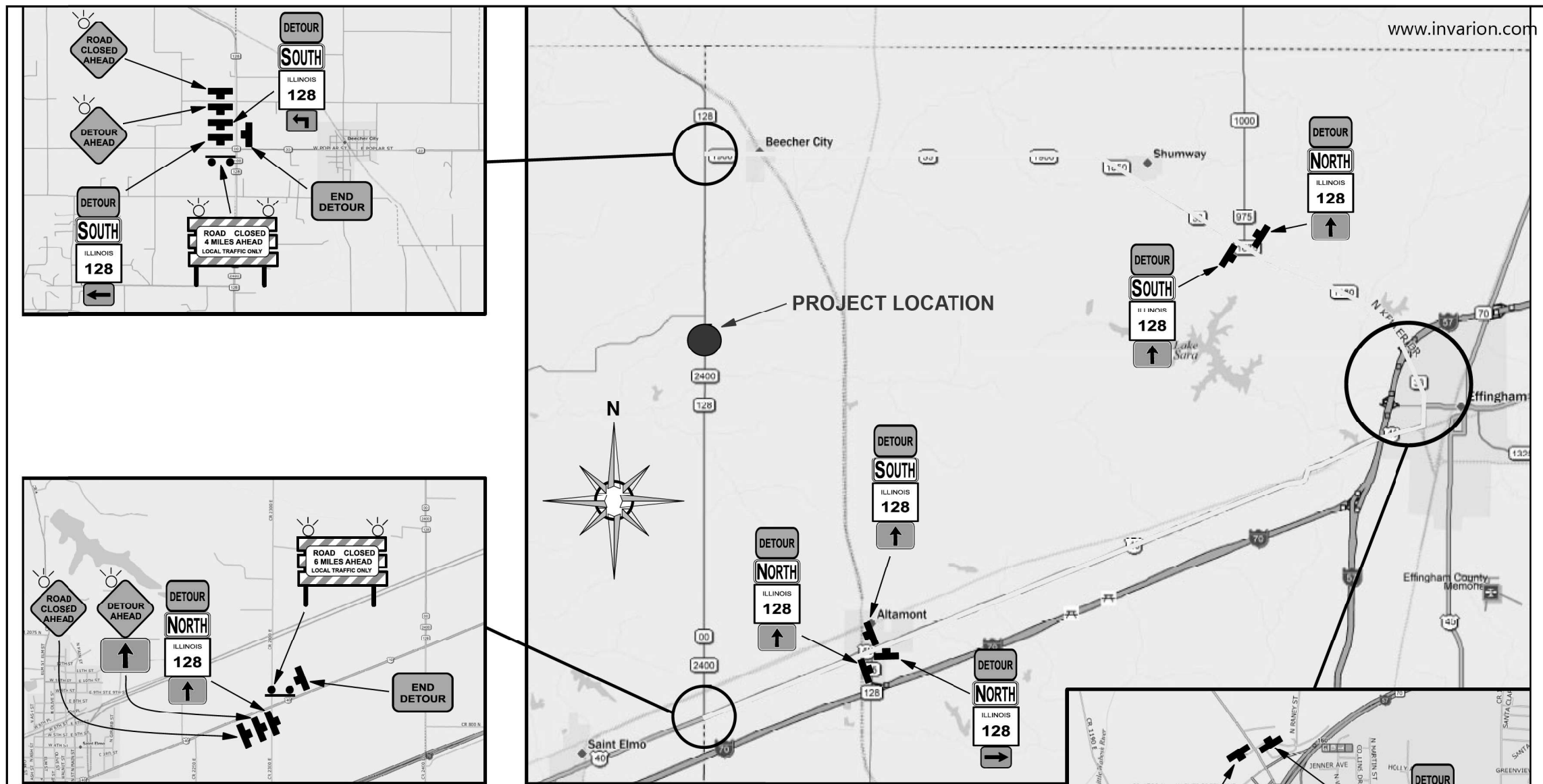
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PLOT DATE = 8/23/2022		

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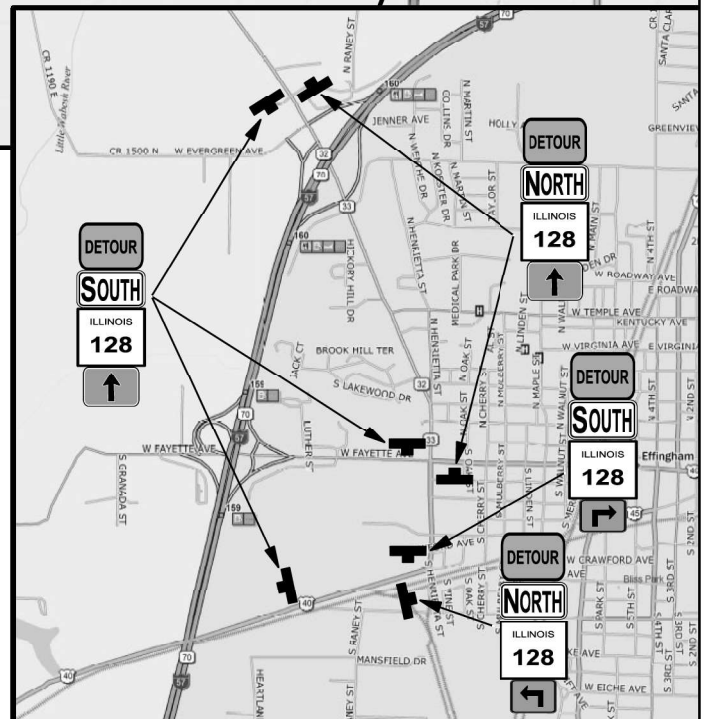
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PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 74352			ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/23/2022	DATE -	REVISED -	REVISED -			SCALE: 20	SHEET NO. 3 OF 3 SHEETS	STA. 1091+00 TO STA. 1097+00		



IL 128 CLOSURE BY STANDARDS BLR 21 & 701901

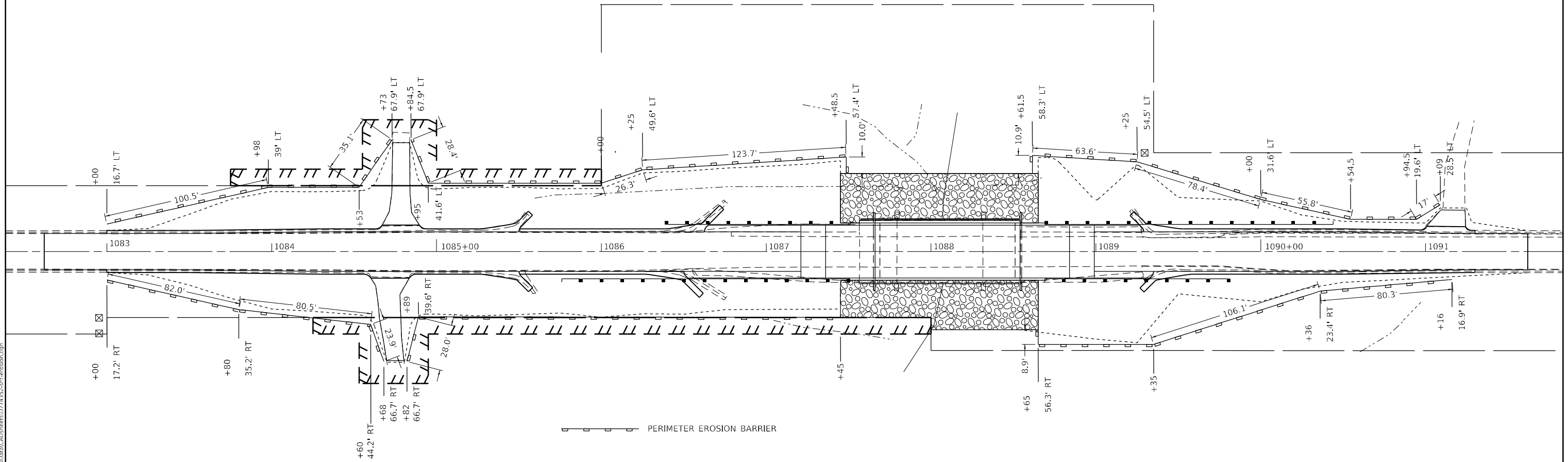
**SIGN LEGEND**

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	DRAWN -	REVISED -
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PLOT DATE = 8/23/2022	DATE -	REVISED -

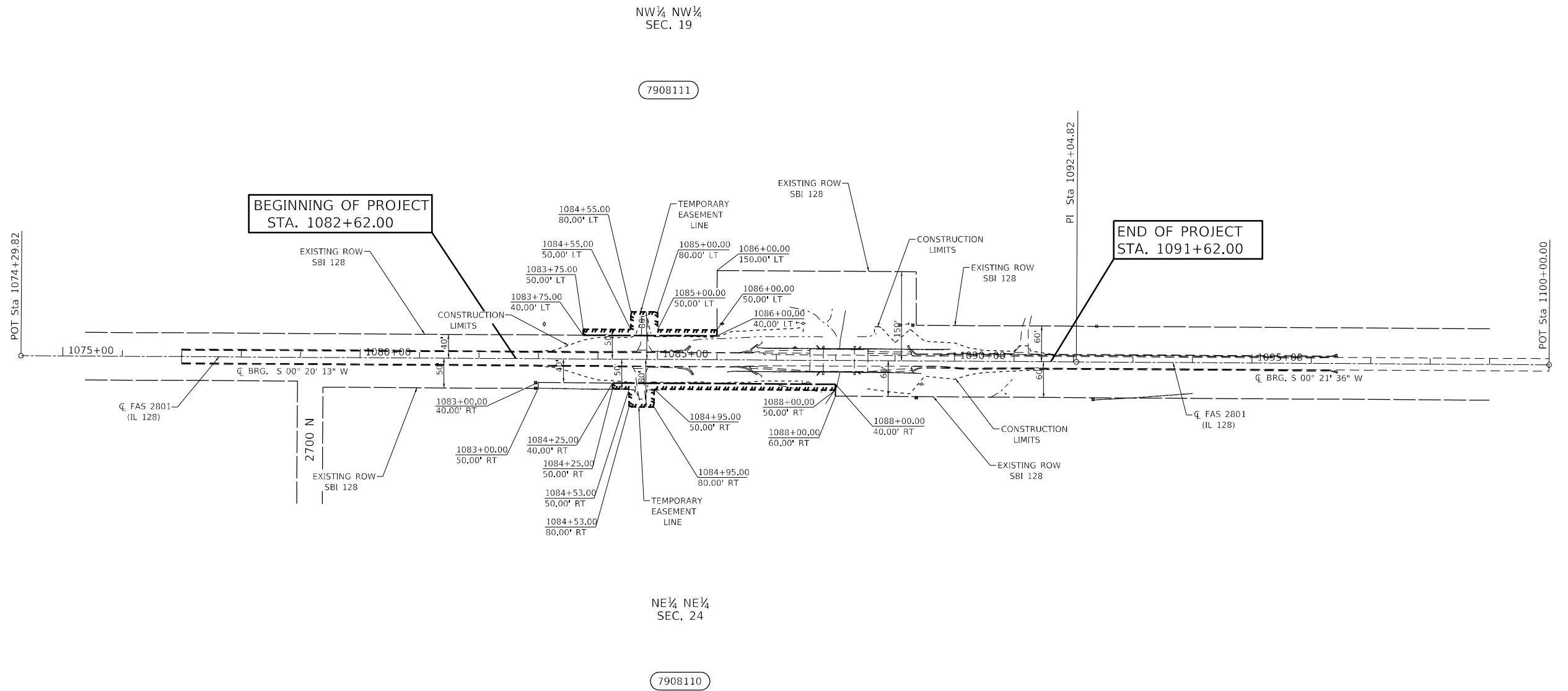
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	15
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

T.8N.-R.4E., 3rd P.M., MOCCASIN TWP.



T.8N.-R.3E., 3rd P.M., LOUDON TWP.

- - EXISTING IRON PIN
- - SET IRON PIN
- ▲ - EXISTING STONE
- ⊠ - EXISTING ROW MARKER
- (R) - RECORDED DISTANCE

NOTE:  
BEARINGS ARE REFERENCED TO THE  
ILLINOIS STATE PLANE COORDINATE  
SYSTEM EAST ZONE DATUM OF 1983(97)

TEMPORARY EASEMENTS NEEDED FOR A  
WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	REM. AREA	INST	RECORDED			EXCESS		
		ADD	EXIST				MICRO FILM NO.	DATE	BOOK	PAGE	AREA	SOLD
7908110	PHILP KAISER			0.115 AC.								
7908111	DIANE REYNOLDS			0.083 AC.								

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	DRAWN - BAB	REVISED -
PLOT SCALE = 200,0000' / in.	CHECKED - JMD	REVISED -
PLOT DATE = 8/23/2022	DATE - 07/18/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

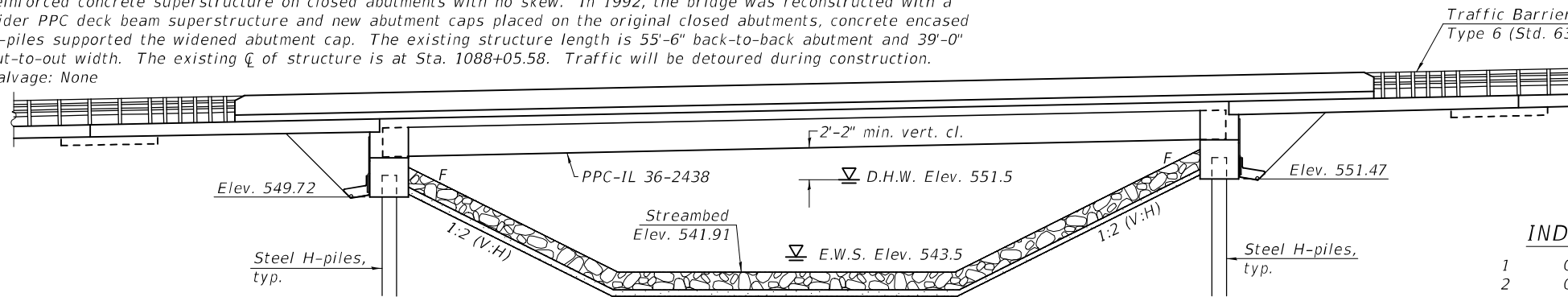
**RIGHT OF WAY PLANS**

SCALE: 1" = 100' SHEET 1 OF 1 SHEETS STA. 1082+62.00 TO STA. 1093+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	16
CONTRACT NO. 74352				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Benchmark: 524 Chiseled 'H' on top of North abutment extension at East end of Structure 025-0065, Station 1087+78.25, 21' LT, Elevation = 552.76  
 Existing Structure: S.N. 025-0065 was originally built in 1930 as SBI Route 128, Section 103B, consisting of a reinforced concrete superstructure on closed abutments with no skew. In 1992, the bridge was reconstructed with a wider PPC deck beam superstructure and new abutment caps placed on the original closed abutments, concrete encased H-piles supported the widened abutment cap. The existing structure length is 55'-6" back-to-back abutment and 39'-0" out-to-out width. The existing  $\bar{C}$  of structure is at Sta. 1088+05.58. Traffic will be detoured during construction.  
 Salvage: None

Traffic Barrier Terminal  
 Type 6 (Std. 631031), typ.



**ELEVATION**

**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 General Data
- 3-4 Top of Slab Elevations
- 5-6 Top of Approach Slab Elevations
- 7-8 Superstructure
- 9 Diaphragm Details
- 10-11 Bridge Approach Slab Details
- 12-13 Framing Plan
- 14-15 IL36N Beam Details
- 16-18 Abutments
- 19 HP Pile Details
- 20 Concrete Parapet Slipforming Option
- 21-22 Soil Boring Logs

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**DESIGN STRESSES**

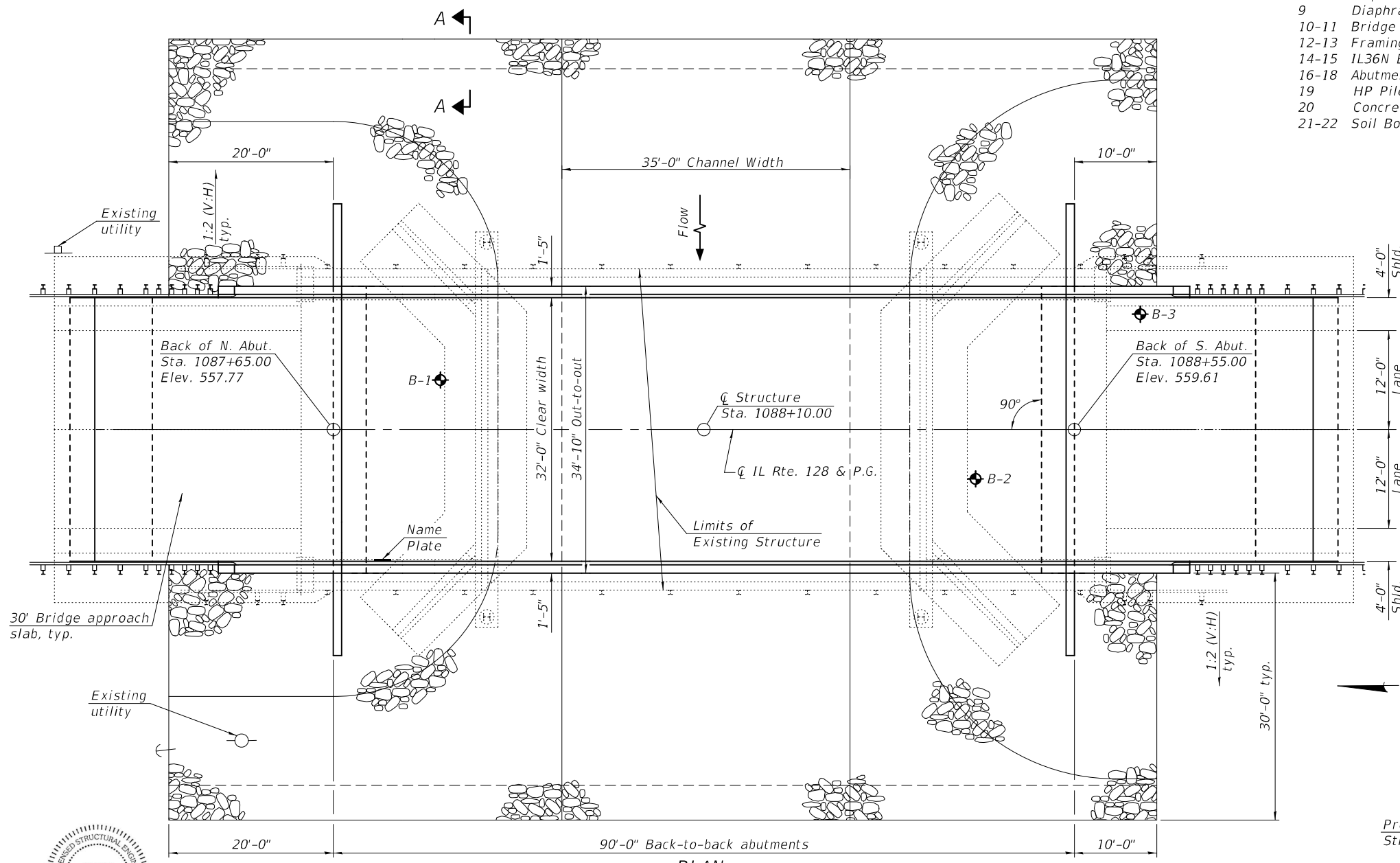
- FIELD UNITS**
- $f'_c = 4,000$  psi (superstructure)
  - $f'_c = 3,500$  psi
  - $f_y = 60,000$  psi (reinforcement)
- PRECAST PRESTRESSED UNITS**
- $f'_c = 8,500$  psi
  - $f'_{ci} = 6,500$  psi
  - $f_{pu} = 270,000$  psi (0.6"  $\bar{O}$  low lax strands)
  - $f_{pbt} = 202,300$  psi (0.6"  $\bar{O}$  low lax strands)

**LOADING HL-93**

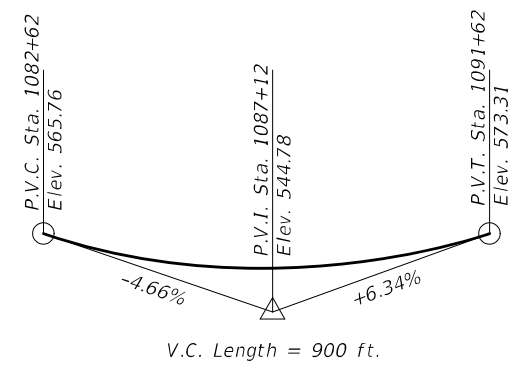
Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

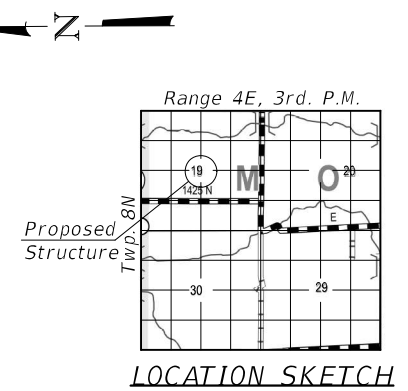
Seismic Performance Zone (SPZ) = 2  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.211g  
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.469g  
 Soil Site Class = D



**PLAN**



**PROFILE GRADE**  
 (Along  $\bar{C}$  IL Rte. 128)



**GENERAL PLAN & ELEVATION**  
**ILLINOIS ROUTE 128 OVER**  
**BIG MOCCASIN CREEK**  
**F.A.S. RTE. 2801 - SEC. (103BR)B-1**  
**EFFINGHAM COUNTY**  
**STATION 1088+10.00**  
**STRUCTURE NO. 025-0110**

MODEL: 0250110-74352-001  
 FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110-74352.dgn



EXPIRES 11-30-2024

DESIGNED - HAMEED S. SALIH	EXAMINED - Jayme F. Schiff
CHECKED - RYAN P. NEGANGARD	PASSED - Jayme F. Schiff
DRAWN - DENNIS A. POP / GWS	
CHECKED - HSS / RPN / GRA	

DATE - 10-10-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
REVISIONS	

DATE - 10-10-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
REVISIONS	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET 1 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	17
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1,193	1,193
Filter Fabric	Sq. Yd.		1,193	1,193
Removal of Existing Structures	Each	1		1
Concrete Structures	Cu. Yd.		67.4	67.4
Concrete Superstructure	Cu. Yd.	140.7		140.7
Concrete Superstructure (Approach Slab)	Cu. Yd.	95.4		95.4
Structure Excavation	Cu. Yd.		200	200
Name Plates	Each	1		1
Bridge Deck Grooving	Sq. Yd.		493	493
Protective Coat	Sq. Yd.		639	639
Reinforcement Bars, Epoxy Coated	Pound		7,620	73,500
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36N	Foot	523.5		523.5
Furnishing Steel Piles HP 14x73	Foot		341	341
Driving Piles	Foot		341	341
Test Pile Steel HP 14x73	Each		1	1
Granular Backfill for Structures	Cu. Yd.		111	111
Geocomposite Wall Drain	Sq. Yd.		60	60
Pipe Underdrains for Structures 4"	Foot		135	135

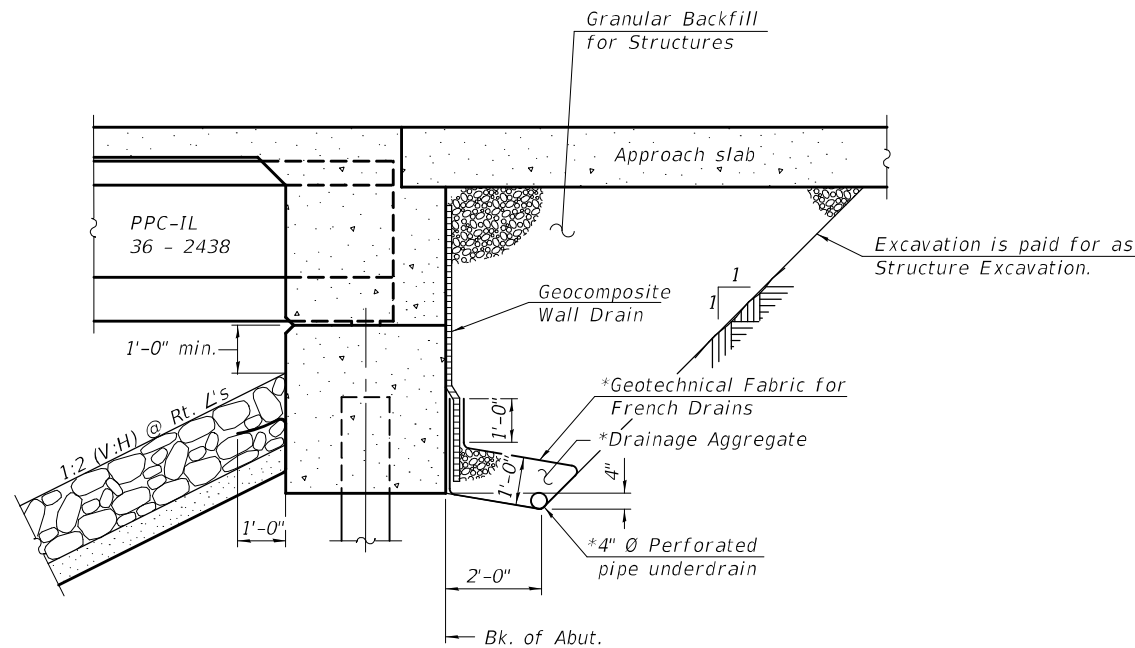
**WATERWAY INFORMATION**

		Proposed Low Grade Elev. = 556.87 @ Sta. 1086+50							
Drainage Area = 12.6 sq. mi.		Existing Low Grade Elev. = 554.03 @ Sta. 1086+90							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	2270	360	432	550.3	0.4	0.3	550.7	550.6
Design	50	3650	420	516	551.5	1.3	0.9	552.8	552.4
Base	100	4270	441	548	551.9	1.8	1.2	553.7	553.1
Overtopping Exist.	125				552.1	1.9		554.0	
Max. Calc.	500	5780	490	622	552.9	2.9	1.9	555.8	554.8

10 yr. velocity (existing) bridge = 6.31 ft./sec.  
 10 yr. velocity (proposed) bridge = 5.25 ft./sec.

**DESIGN SCOUR ELEVATION TABLE**

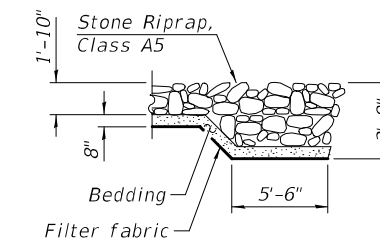
Event / Limit State	Design Scour Elevations (ft.)		
	N. Abut.	S. Abut.	Item 113
Q100	549.72	551.47	8
Q200	549.72	551.47	
Design	549.72	551.47	
Check	549.72	551.47	



**SECTION THRU INTEGRAL ABUTMENT**

\*Included in the cost of Pipe Underdrains for Structures.

Note:  
 All drainage system components shall extend to 2'-0" from the end of each wingwall 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).



**SECTION A-A**

STATION 1088 + 10.00  
 BUILT 20-- BY  
 STATE OF ILLINOIS  
 F.A.S. RTE. 2801 - SEC. (103BR) B-1  
 LOADING HL-93  
 STRUCTURE NO. 025-0110

**NAME PLATE**  
 See Std. 515001

MODEL: 0250110-74352-002  
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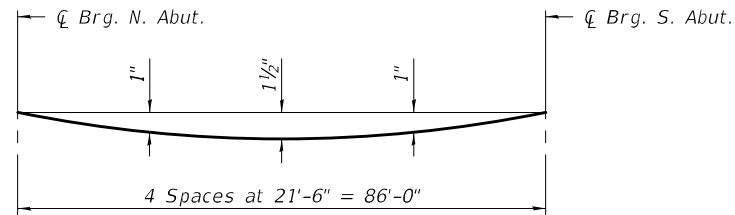
DESIGNED - HAMEED S. SALIH	EXAMINED - <i>James F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>James F. Salih</i>	REVISOR -
DRAWN - DENNIS A. POP	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - HSS / RPN / GRA		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
 STRUCTURE NO. 025-0110**

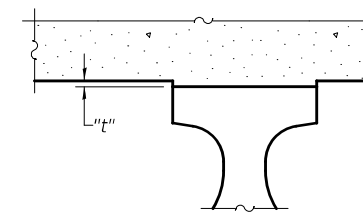
SHEET 2 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	18
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		



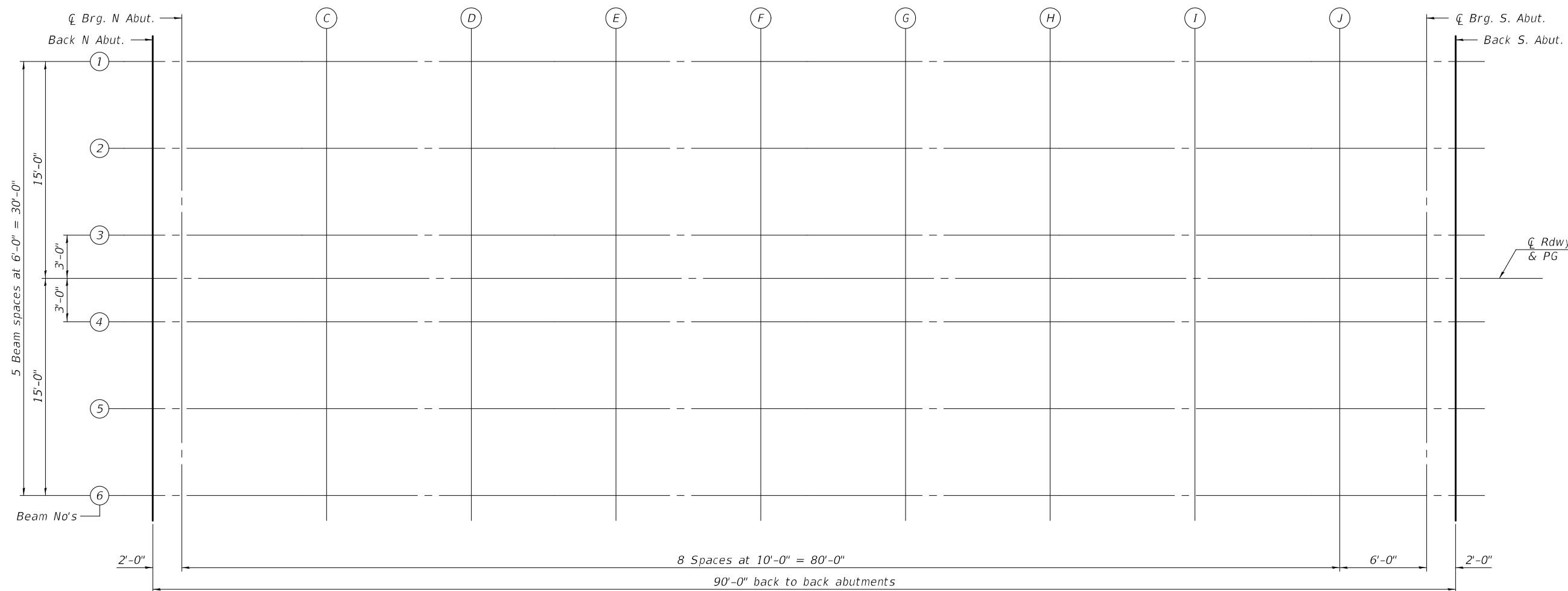
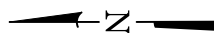
**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete excluding beams.)

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 as shown on sheet 4 of 22.



To determine "t": After all PPC IL-Beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 22, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

MODEL: 0250110-74352-003  
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED -	HAMEED S. SALIH
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN STOVER
CHECKED -	HSS / RPN / GRA

EXAMINED	<i>Jaime F. Salih</i>	DATE -	OCTOBER 10, 2022
PASSED	<i>Jaime F. Salih</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 025-0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	19
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		

SHEET 3 OF 22 SHEETS

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	-15.00	557.53	557.53
☒ Brg. N. Abut.	1087+67.00	-15.00	557.56	557.56
C	1087+77.00	-15.00	557.72	557.76
D	1087+87.00	-15.00	557.89	557.97
E	1087+97.00	-15.00	558.07	558.17
F	1088+07.00	-15.00	558.27	558.38
G	1088+17.00	-15.00	558.47	558.58
H	1088+27.00	-15.00	558.69	558.78
I	1088+37.00	-15.00	558.92	558.98
J	1088+47.00	-15.00	559.16	559.19
☒ Brg. S. Abut.	1088+53.00	-15.00	559.31	559.31
Back S. Abut.	1088+55.00	-15.00	559.37	559.37

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	-9.00	557.64	557.64
☒ Brg. N. Abut.	1087+67.00	-9.00	557.67	557.67
C	1087+77.00	-9.00	557.82	557.86
D	1087+87.00	-9.00	557.99	558.07
E	1087+97.00	-9.00	558.18	558.28
F	1088+07.00	-9.00	558.37	558.49
G	1088+17.00	-9.00	558.58	558.69
H	1088+27.00	-9.00	558.79	558.89
I	1088+37.00	-9.00	559.03	559.09
J	1088+47.00	-9.00	559.27	559.29
☒ Brg. S. Abut.	1088+53.00	-9.00	559.42	559.42
Back S. Abut.	1088+55.00	-9.00	559.47	559.47

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	-3.00	557.73	557.73
☒ Brg. N. Abut.	1087+67.00	-3.00	557.76	557.76
C	1087+77.00	-3.00	557.91	557.95
D	1087+87.00	-3.00	558.08	558.16
E	1087+97.00	-3.00	558.27	558.37
F	1088+07.00	-3.00	558.46	558.58
G	1088+17.00	-3.00	558.67	558.78
H	1088+27.00	-3.00	558.88	558.98
I	1088+37.00	-3.00	559.12	559.18
J	1088+47.00	-3.00	559.36	559.38
☒ Brg. S. Abut.	1088+53.00	-3.00	559.51	559.51
Back S. Abut.	1088+55.00	-3.00	559.56	559.56

**☒ RDWY. & P.G.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	0.00	557.77	557.77
☒ Brg. N. Abut.	1087+67.00	0.00	557.80	557.80
C	1087+77.00	0.00	557.96	558.00
D	1087+87.00	0.00	558.13	558.21
E	1087+97.00	0.00	558.31	558.41
F	1088+07.00	0.00	558.51	558.62
G	1088+17.00	0.00	558.71	558.82
H	1088+27.00	0.00	558.93	559.02
I	1088+37.00	0.00	559.16	559.22
J	1088+47.00	0.00	559.40	559.43
☒ Brg. S. Abut.	1088+53.00	0.00	559.55	559.55
Back S. Abut.	1088+55.00	0.00	559.61	559.61

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	3.00	557.73	557.73
☒ Brg. N. Abut.	1087+67.00	3.00	557.76	557.76
C	1087+77.00	3.00	557.91	557.95
D	1087+87.00	3.00	558.08	558.16
E	1087+97.00	3.00	558.27	558.37
F	1088+07.00	3.00	558.46	558.58
G	1088+17.00	3.00	558.67	558.78
H	1088+27.00	3.00	558.88	558.98
I	1088+37.00	3.00	559.12	559.18
J	1088+47.00	3.00	559.36	559.38
☒ Brg. S. Abut.	1088+53.00	3.00	559.51	559.51
Back S. Abut.	1088+55.00	3.00	559.56	559.56

**BEAM 5**

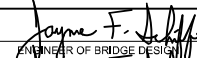

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	9.00	557.64	557.64
☒ Brg. N. Abut.	1087+67.00	9.00	557.67	557.67
C	1087+77.00	9.00	557.82	557.86
D	1087+87.00	9.00	557.99	558.07
E	1087+97.00	9.00	558.18	558.28
F	1088+07.00	9.00	558.37	558.49
G	1088+17.00	9.00	558.58	558.69
H	1088+27.00	9.00	558.79	558.89
I	1088+37.00	9.00	559.03	559.09
J	1088+47.00	9.00	559.27	559.29
☒ Brg. S. Abut.	1088+53.00	9.00	559.42	559.42
Back S. Abut.	1088+55.00	9.00	559.47	559.47

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1087+65.00	15.00	557.53	557.53
☒ Brg. N. Abut.	1087+67.00	15.00	557.56	557.56
C	1087+77.00	15.00	557.72	557.76
D	1087+87.00	15.00	557.89	557.97
E	1087+97.00	15.00	558.07	558.17
F	1088+07.00	15.00	558.27	558.38
G	1088+17.00	15.00	558.47	558.58
H	1088+27.00	15.00	558.69	558.78
I	1088+37.00	15.00	558.92	558.98
J	1088+47.00	15.00	559.16	559.19
☒ Brg. S. Abut.	1088+53.00	15.00	559.31	559.31
Back S. Abut.	1088+55.00	15.00	559.37	559.37

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DESIGNED -	HAMEED S. SALIH
CHECKED -	RYAN P. NEGANGARD
DRAWN -	DENNIS A. POP
CHECKED -	HSS / RPN / GRA

EXAMINED	
PASSED	

DATE -	OCTOBER 10, 2022
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 025-0110**

SHEET 4 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	20
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	1087+36.00	-16.00	557.13
A	1087+46.00	-16.00	557.25
B	1087+56.00	-16.00	557.38
S. End of N. Appr. Slab	1087+66.00	-16.00	557.53

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	1087+36.00	-12.00	557.21
A	1087+46.00	-12.00	557.33
B	1087+56.00	-12.00	557.46
S. End of N. Appr. Slab	1087+66.00	-12.00	557.61

∅ RDWY. & P.G.

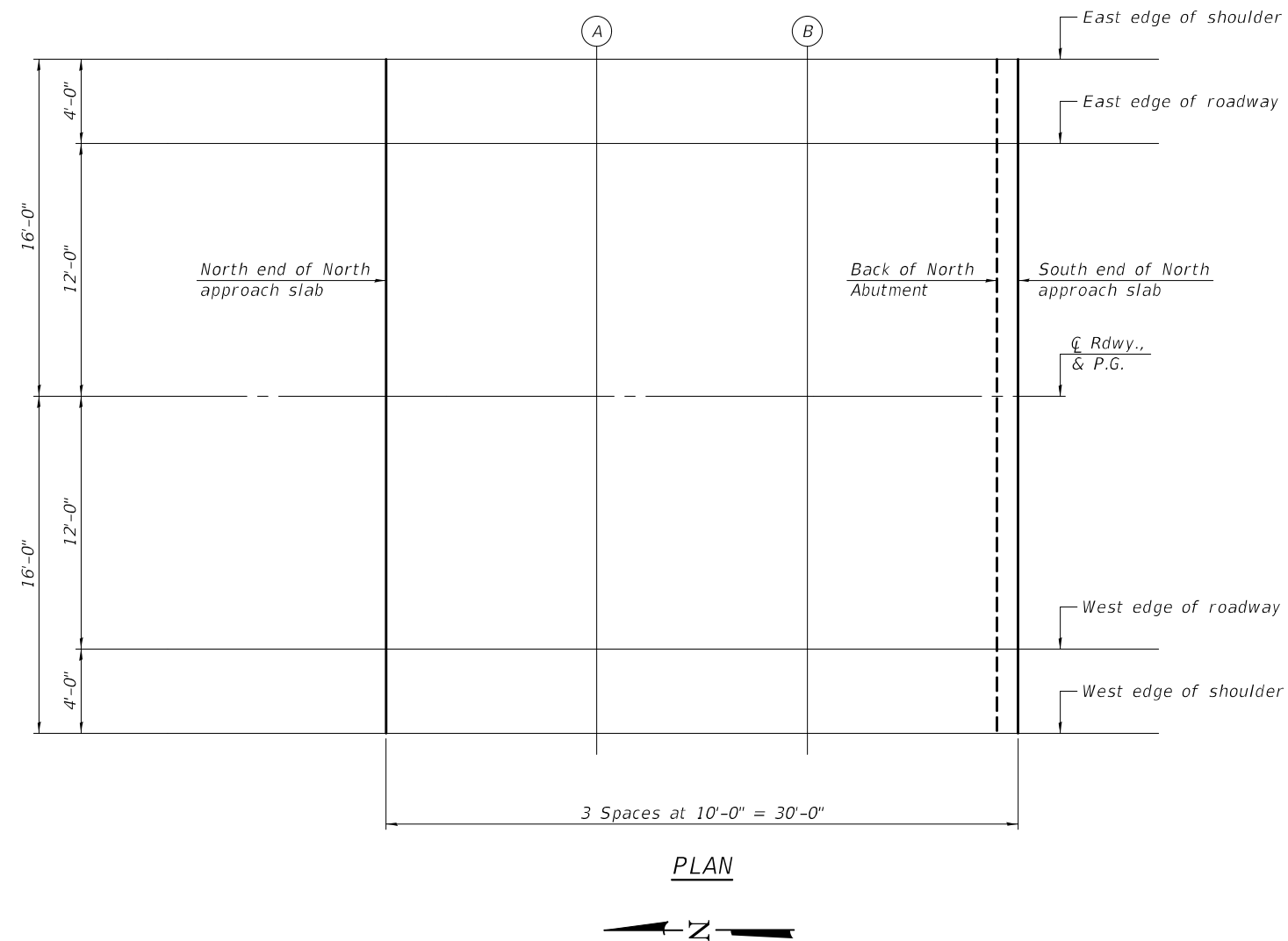
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	1087+36.00	0.00	557.39
A	1087+46.00	0.00	557.51
B	1087+56.00	0.00	557.64
S. End of N. Appr. Slab	1087+66.00	0.00	557.79

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	1087+36.00	12.00	557.21
A	1087+46.00	12.00	557.33
B	1087+56.00	12.00	557.46
S. End of N. Appr. Slab	1087+66.00	12.00	557.61

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	1087+36.00	16.00	557.13
A	1087+46.00	16.00	557.25
B	1087+56.00	16.00	557.38
S. End of N. Appr. Slab	1087+66.00	16.00	557.53



PLAN

MODEL: 0250110-74352-005  
FILE NAME: p:\w\idol-pw\benley.com\FWIDOT\Documents\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED -	HAMEED S. SALIH
CHECKED -	RYAN P. NEGANGARD
DRAWN -	DENNIS A. POP / GWS
CHECKED -	HSS / RPN / GRA

EXAMINED	<i>Jaime F. Salih</i>
PASSED	<i>Jaime F. Salih</i>

DATE -	OCTOBER 10, 2022
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 025-0110**

SHEET 5 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	21
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		



EAST EDGE OF SHOULDER

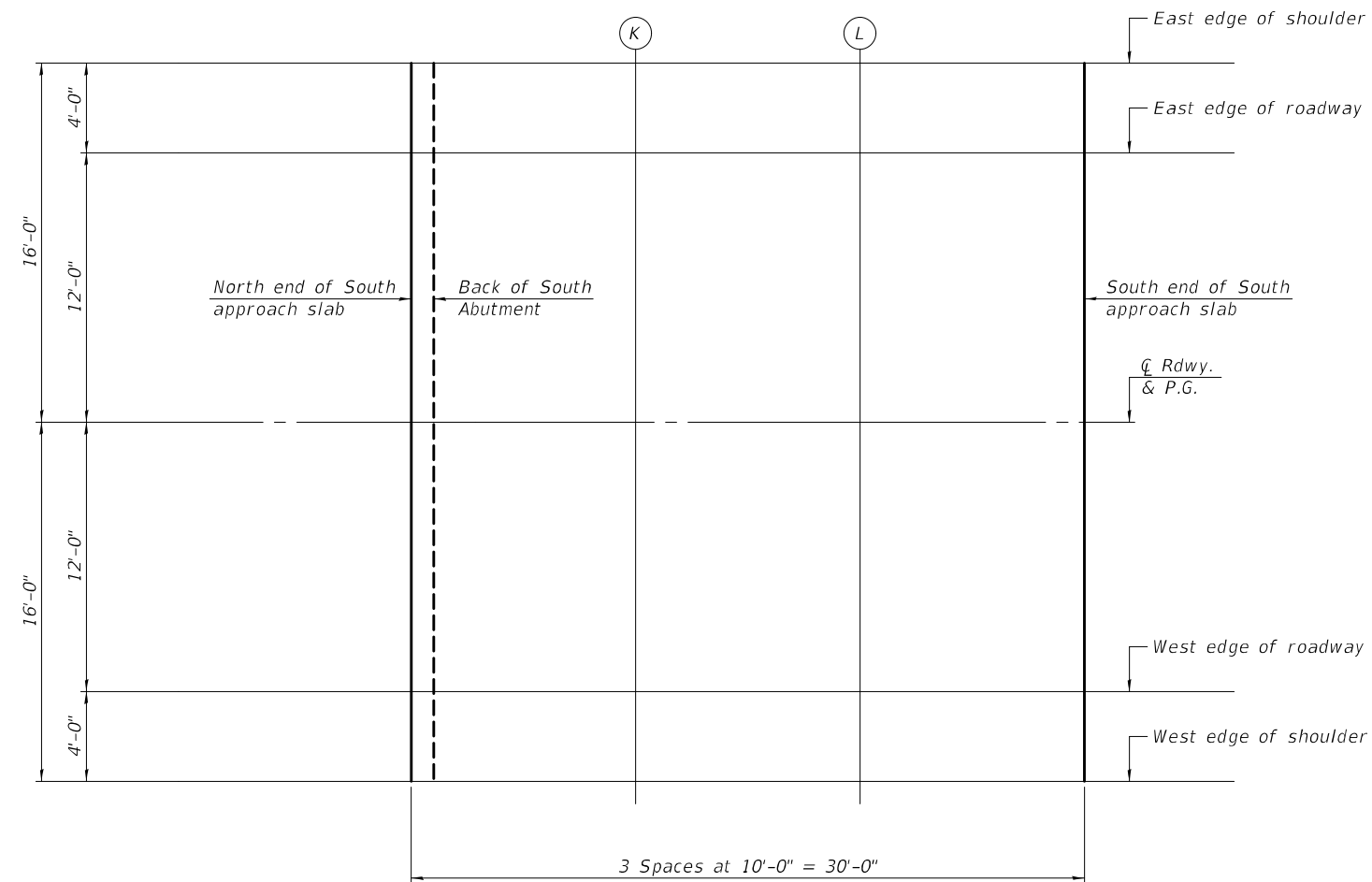
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	1088+54.00	-16.00	559.32
K	1088+64.00	-16.00	559.58
L	1088+74.00	-16.00	559.86
S. End of S. Appr. Slab	1088+84.00	-16.00	560.15

EAST EDGE OF ROADWAY

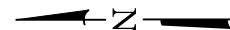
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	1088+54.00	-12.00	559.40
K	1088+64.00	-12.00	559.66
L	1088+74.00	-12.00	559.94
S. End of S. Appr. Slab	1088+84.00	-12.00	560.23

∅ RDWY. & P.G.

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	1088+54.00	0.00	559.58
K	1088+64.00	0.00	559.84
L	1088+74.00	0.00	560.12
S. End of S. Appr. Slab	1088+84.00	0.00	560.41



PLAN



WEST EDGE OF ROADWAY

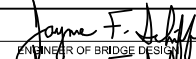

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	1088+54.00	12.00	559.40
K	1088+64.00	12.00	559.66
L	1088+74.00	12.00	559.94
S. End of S. Appr. Slab	1088+84.00	12.00	560.23

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	1088+54.00	16.00	559.32
K	1088+64.00	16.00	559.58
L	1088+74.00	16.00	559.86
S. End of S. Appr. Slab	1088+84.00	16.00	560.15

MODEL: 0250110-74352-006  
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED - HAMEED S. SALIH	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - DENNIS A. POP	
CHECKED - HSS / RPN / GRA	

  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

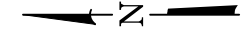
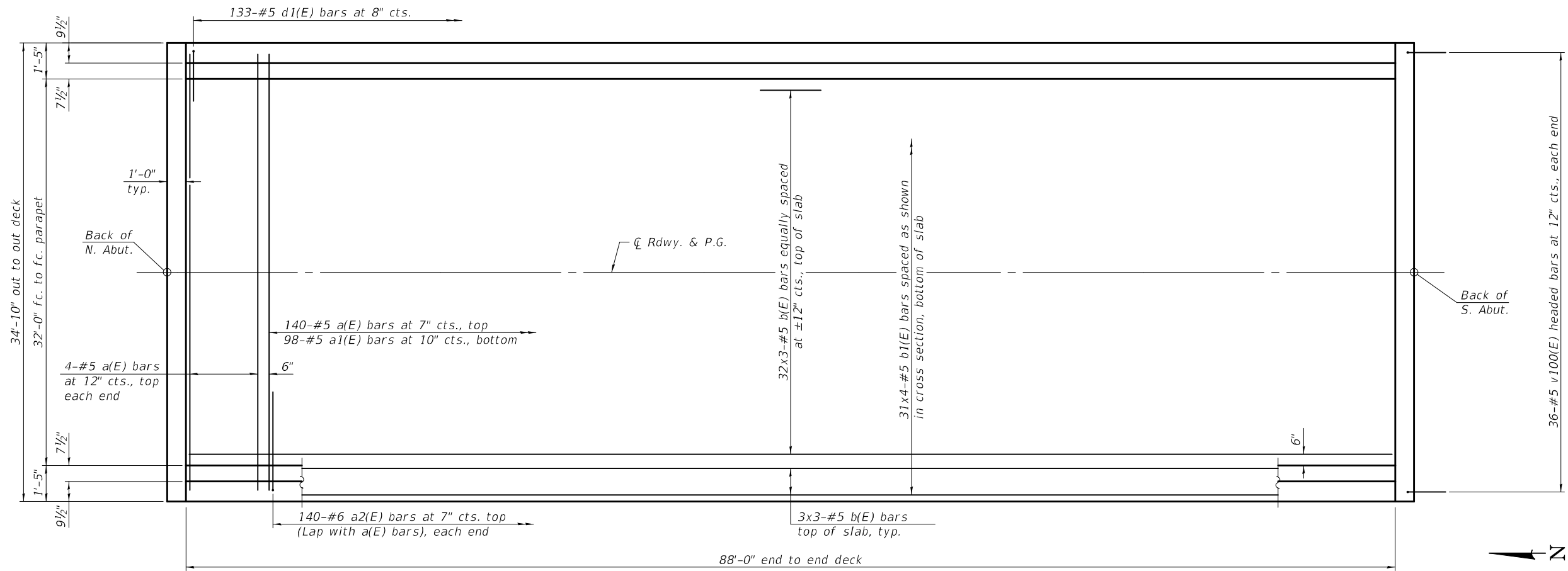
DATE - OCTOBER 10, 2022	REVISED -
	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 025-0110**

SHEET 6 OF 22 SHEETS

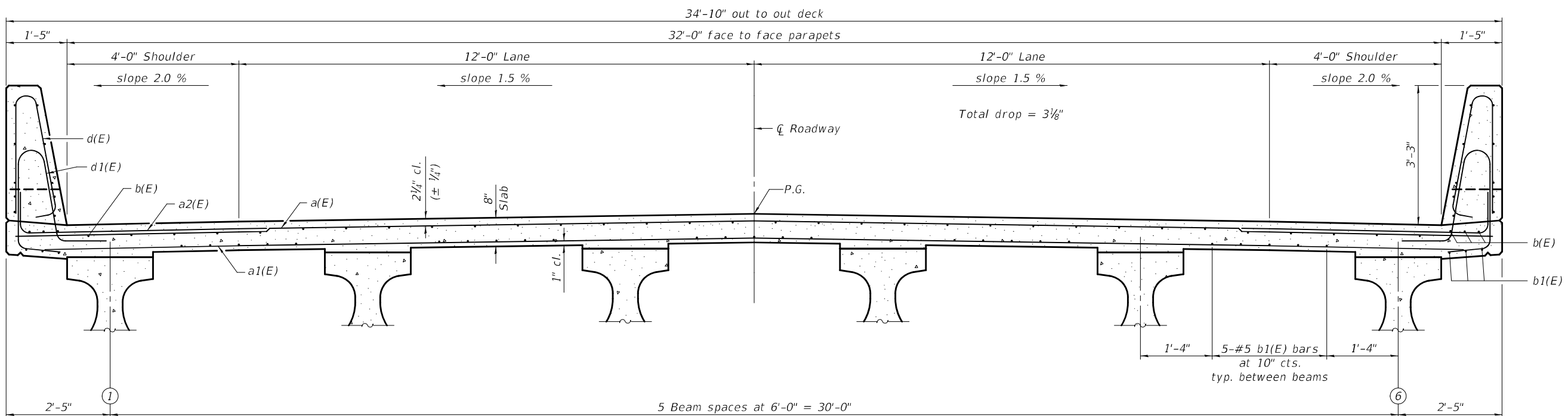
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	22
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		



**MINIMUM BAR LAP**  
#5 bar = 3'-6"

**PLAN**

Notes:  
See sheet 8 of 22 for superstructure details and Bill of Material.  
Bars indicated thus 32x3-#5 etc. indicates 32 lines of bars with 3 lengths per line.



**CROSS SECTION**  
(Looking South)

MODEL: 0250110-74352-007  
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Jaime F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	REVISOR -
DRAWN - DENNIS A. POP / GWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISION -
CHECKED - HSS / RPN / GRA		

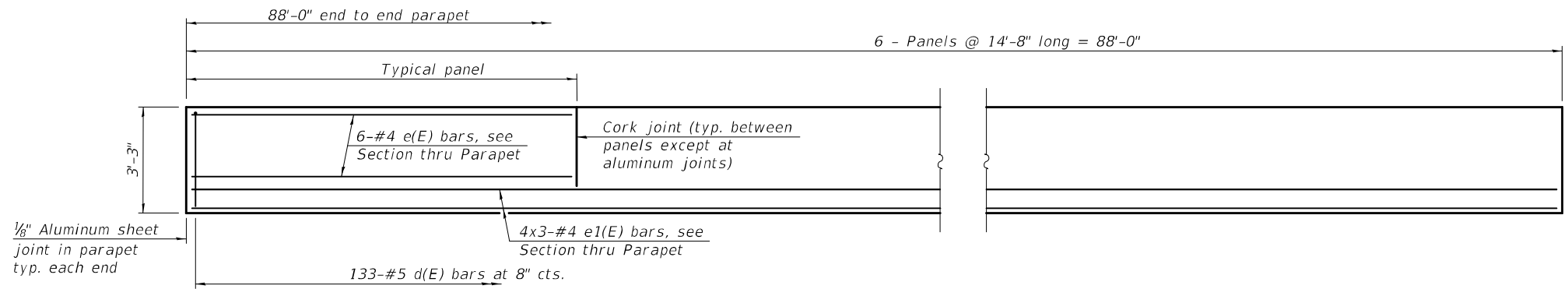
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 025-0110**

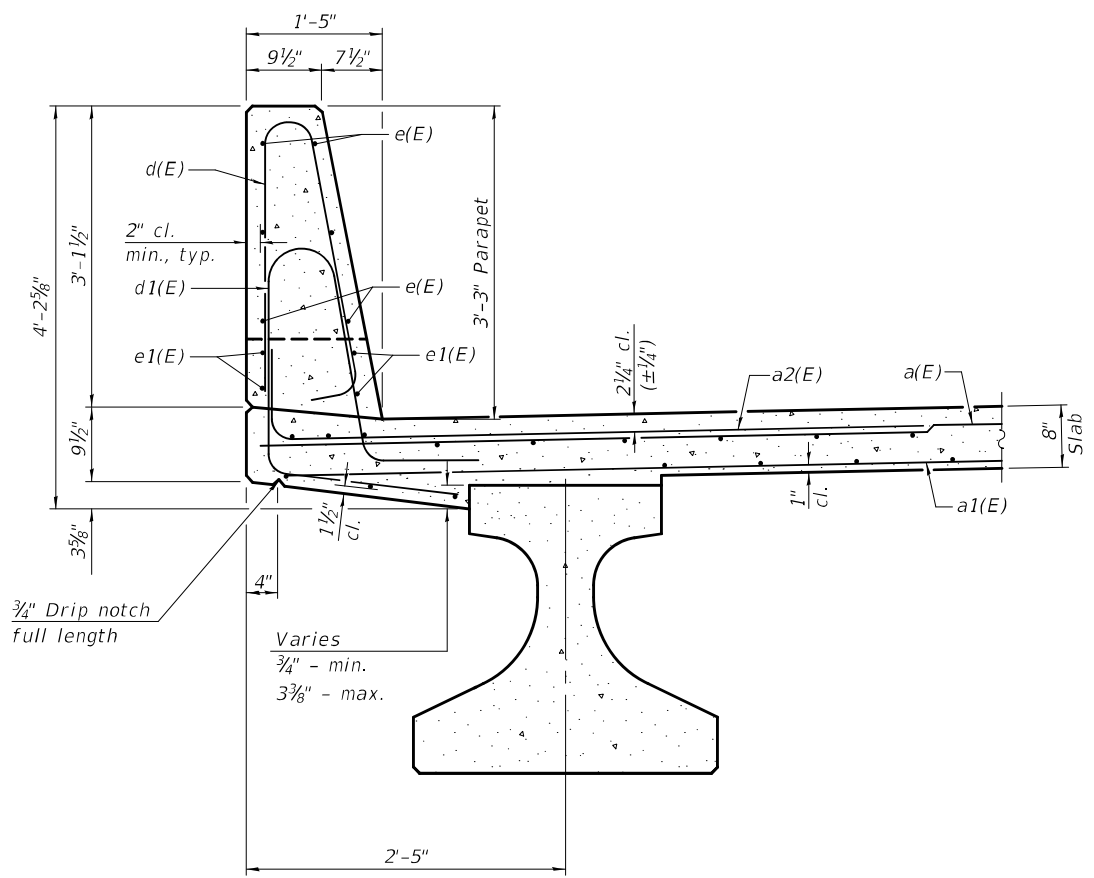
SHEET 7 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	23
CONTRACT NO. 74352				

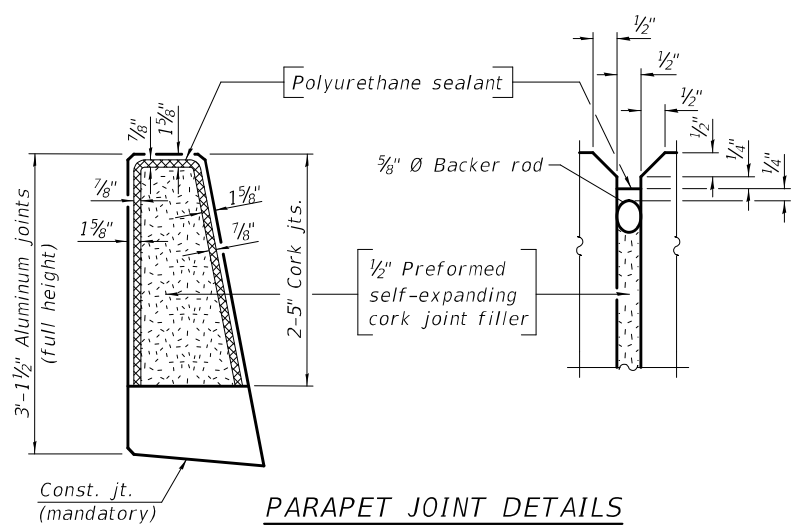
ILLINOIS FED. AID PROJECT



**INSIDE ELEVATION OF PARAPET**



**SECTION THRU PARAPET**



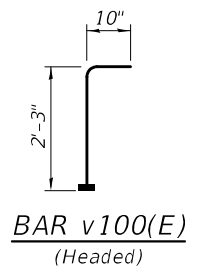
**PARAPET JOINT DETAILS**

**MINIMUM BAR LAP**  
#4 bar = 2'-5"

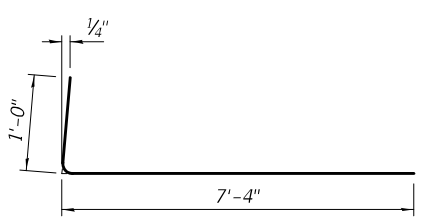
Notes:  
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

**SUPERSTRUCTURE BILL OF MATERIAL**

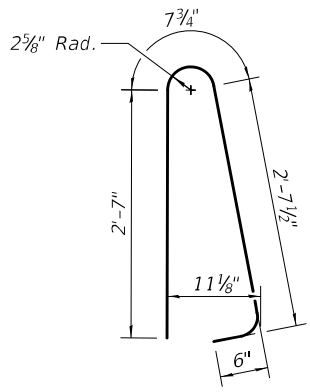
Bar	No.	Size	Length	Shape
a(E)	148	#5	34'-6"	—
a1(E)	98	#5	33'-6"	—
a2(E)	280	#6	8'-4"	└
b(E)	114	#5	31'-7"	—
b1(E)	124	#5	24'-7"	—
d(E)	266	#5	6'-5"	└
d1(E)	266	#5	7'-3"	└
e(E)	72	#4	14'-4"	—
e1(E)	24	#4	30'-10"	—
m10(E)	8	#6	34'-6"	—
m11(E)	20	#6	4'-8"	—
m12(E)	8	#6	1'-7"	—
m13(E)	10	#6	2'-6"	—
m14(E)	4	#6	0'-6"	—
m15(E)	24	#5	4'-0"	—
s10(E)	48	#5	9'-5"	└
s11(E)	48	#5	10'-8"	└
s12(E)	48	#5	8'-6"	└
v100(E)	72	#5	3'-1"	└
Reinforcement Bars, Epoxy Coated		Pound	26,540	
Concrete Superstructure		Cu. Yds.	133.0	



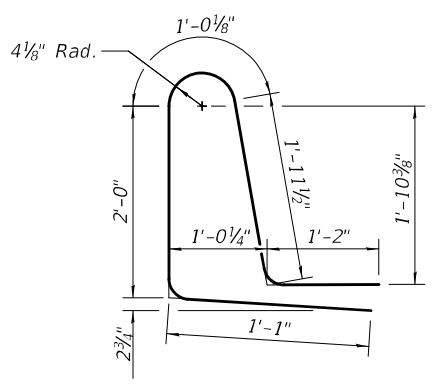
**BAR v100(E)**  
(Headed)



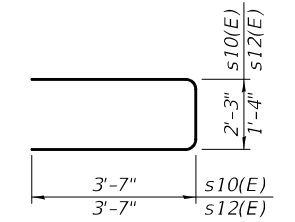
**BAR a2(E)**



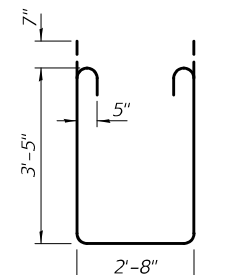
**BAR d(E)**



**BAR d1(E)**



**BARS s10(E) & s12(E)**



**BAR s11(E)**

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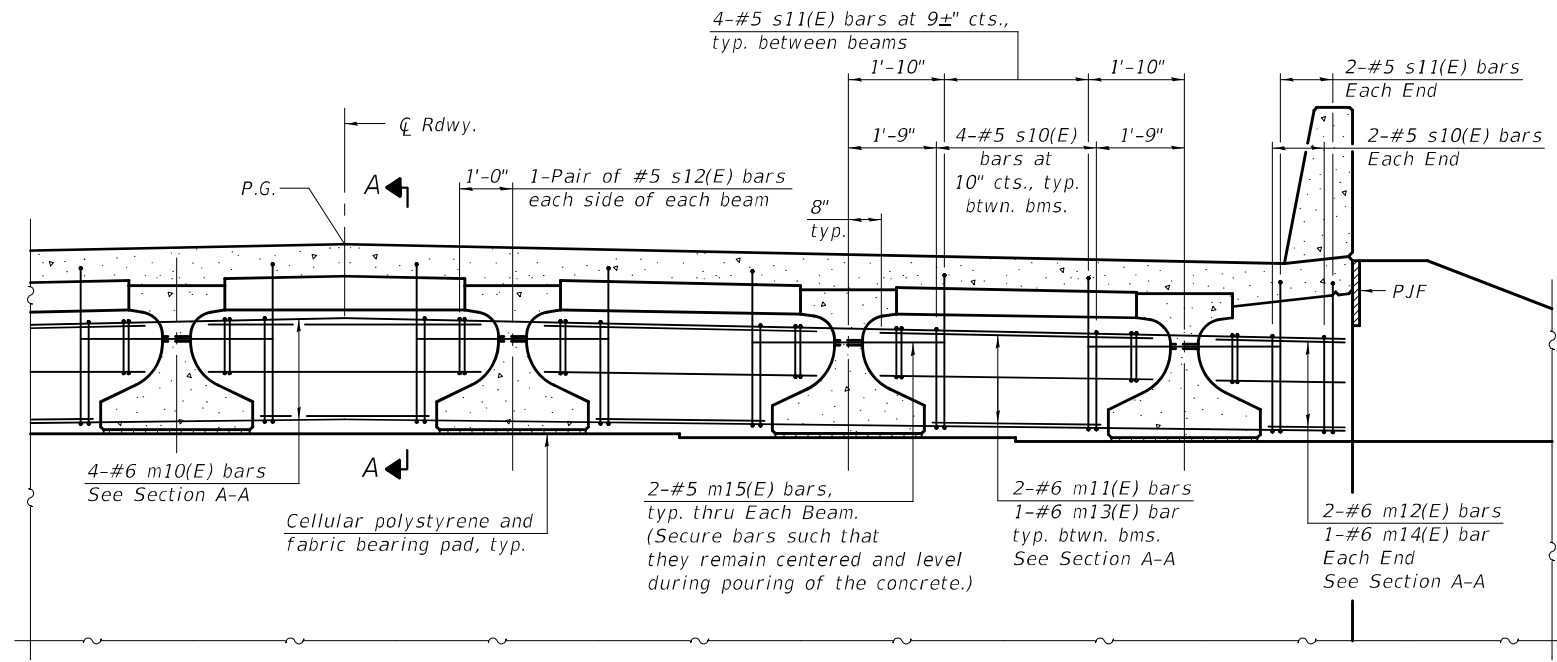
DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Jaime F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	REVISOR -
DRAWN - DENNIS A. POP / GWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - HSS / RPN / GRA		

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

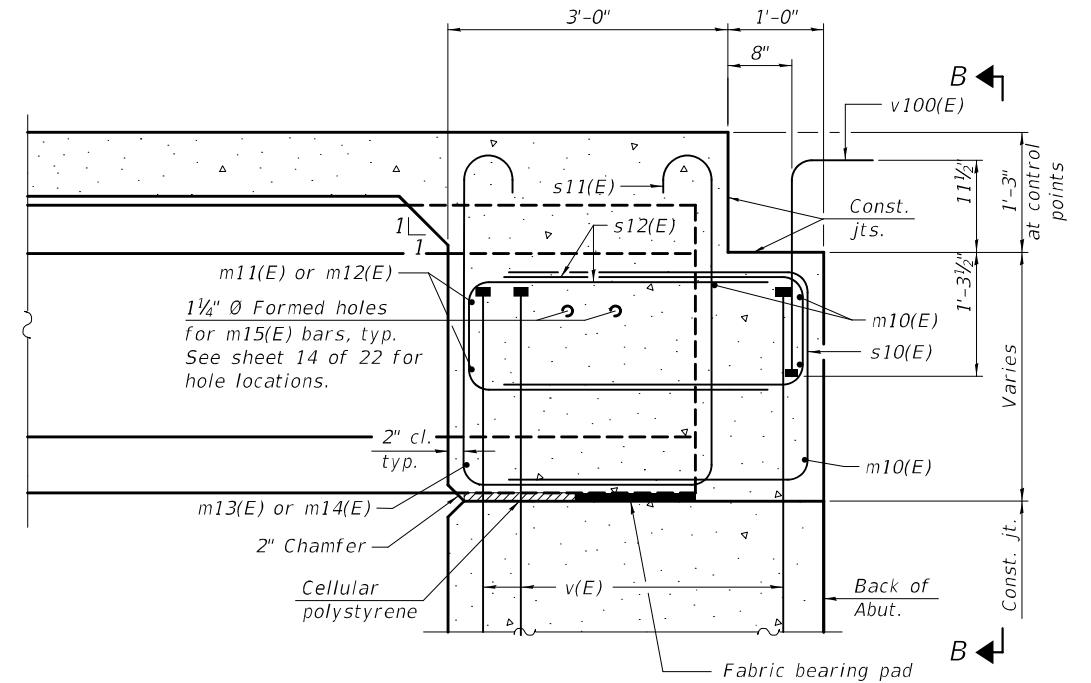
**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 025-0110**

SHEET 8 OF 22 SHEETS

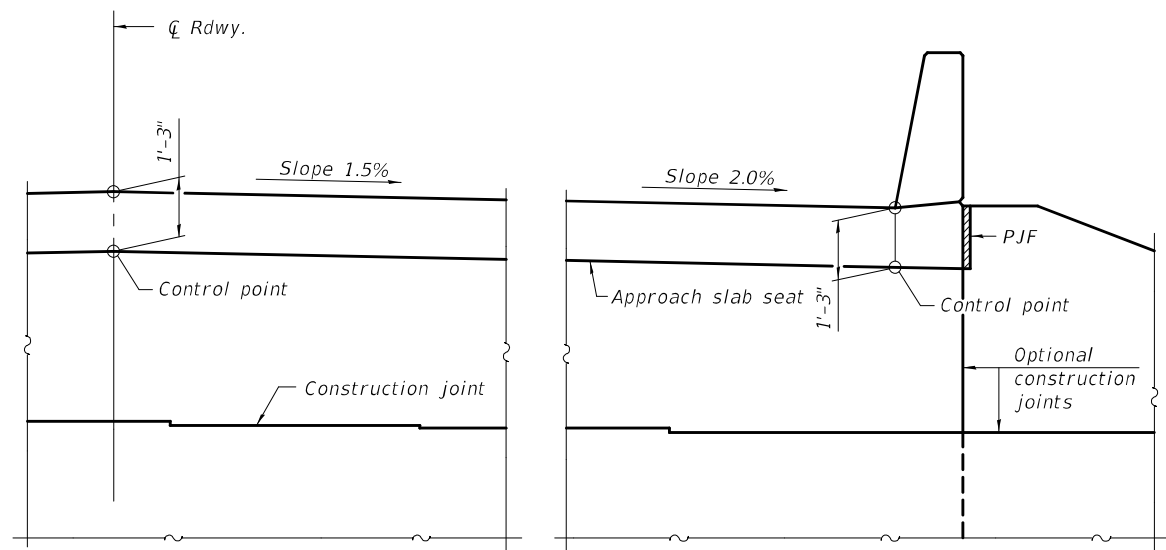
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2801	(103BR) B-1	EFFINGHAM	60	24
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				



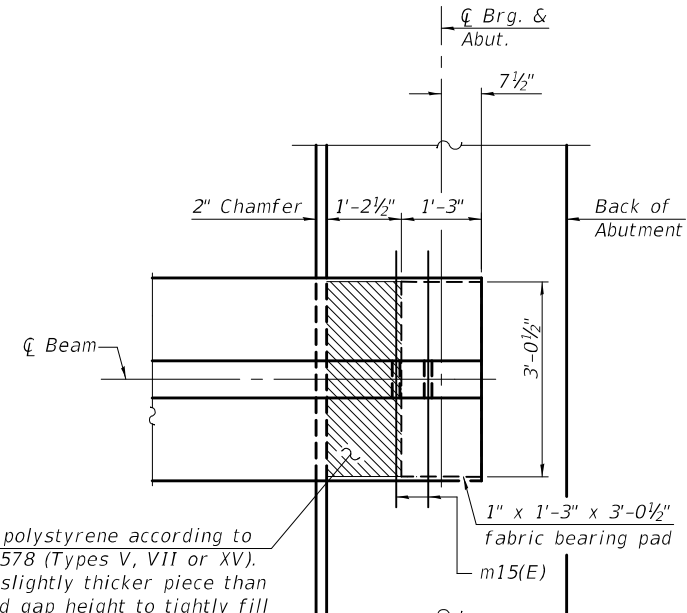
**DIAPHRAGM AT ABUTMENT**



**SECTION A-A**



**VIEW B-B**



**PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

Notes:  
 See sheet 8 of 22 for superstructure details and Bill of Material.  
 See sheet 11 of 22 for P.J.F. 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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DRAWN - DENNIS A. POP / GWS	
CHECKED - HSS / RPN / GRA	

DATE - OCTOBER 10, 2022  
 REVISIONS:  
 REVISION -  
 REVISION -

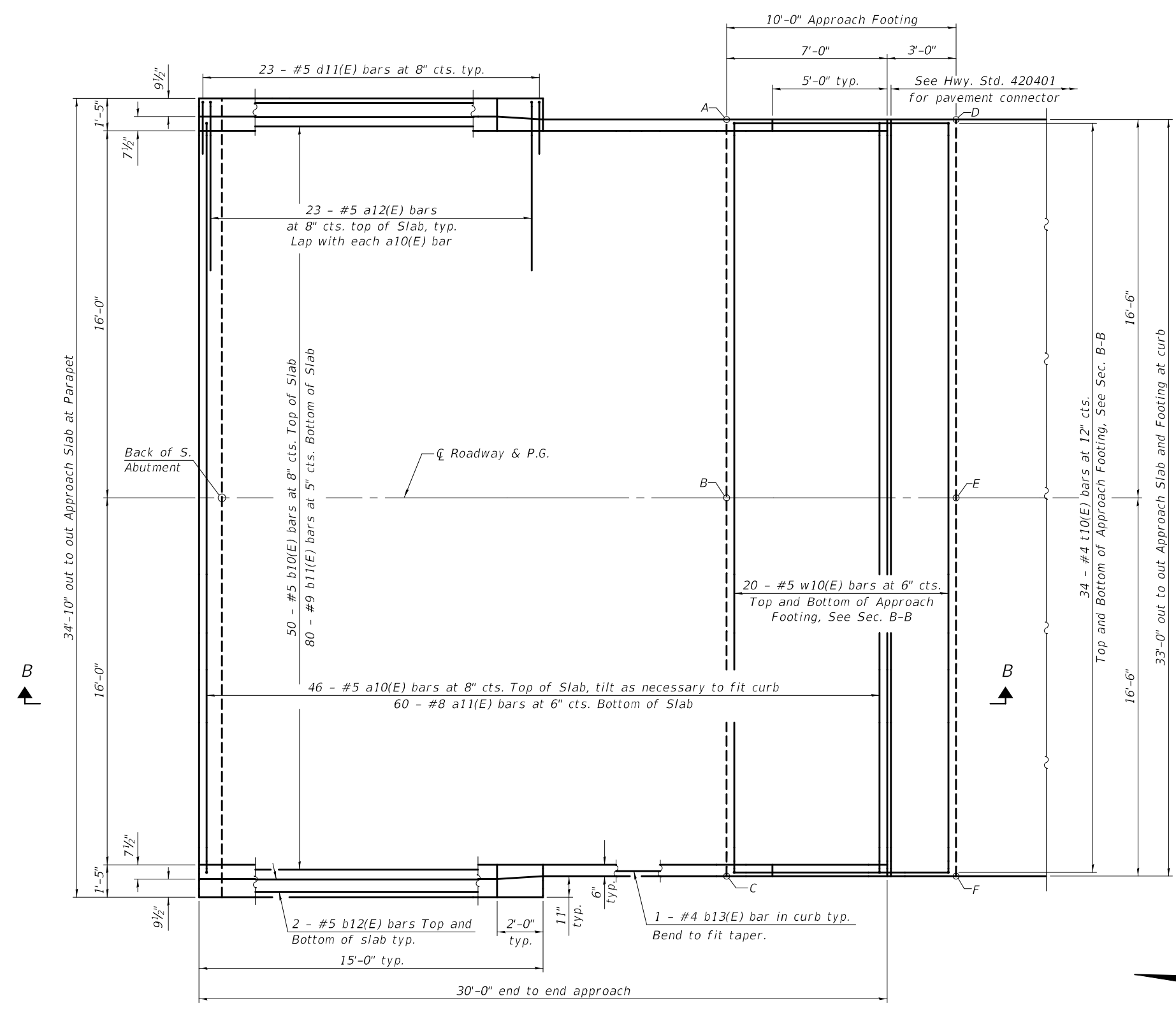
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 025-0110**

SHEET 9 OF 22 SHEETS

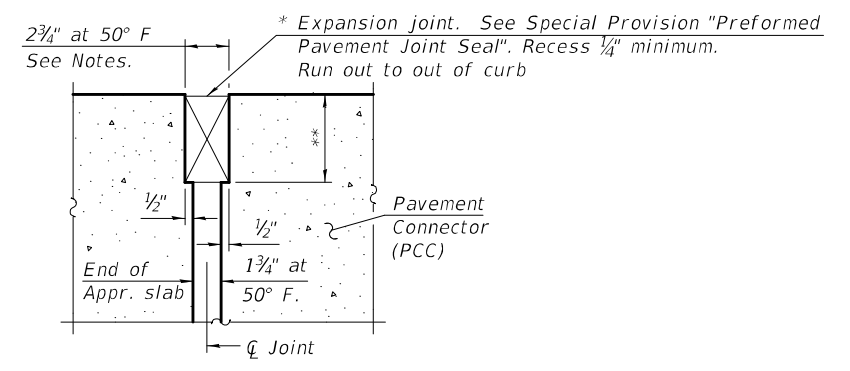
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CONTRACT NO. 74352				
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PLAN

(South Approach Slab Shown; North Approach Similar by 180° Rotation)

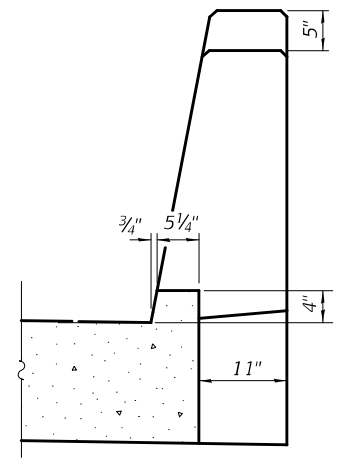


DETAIL A

\* Cost included with Concrete Superstructure (Approach Slab).  
 \*\* Per manufacturer recommendations

TOP AND BOTTOM ELEVATIONS  
 FOR APPROACH FOOTING

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SW	555.96	555.13	A - NE	558.69	557.86
B - S $\bar{C}$	556.23	555.40	B - N $\bar{C}$	558.96	558.13
C - SE	555.96	555.13	C - NW	558.69	557.86
D - NW	555.85	555.02	D - SE	558.99	558.16
E - N $\bar{C}$	556.12	555.29	E - S $\bar{C}$	559.26	558.43
F - NE	555.85	555.02	F - SW	558.99	558.16



VIEW A-A

(Sheet 1 of 2)

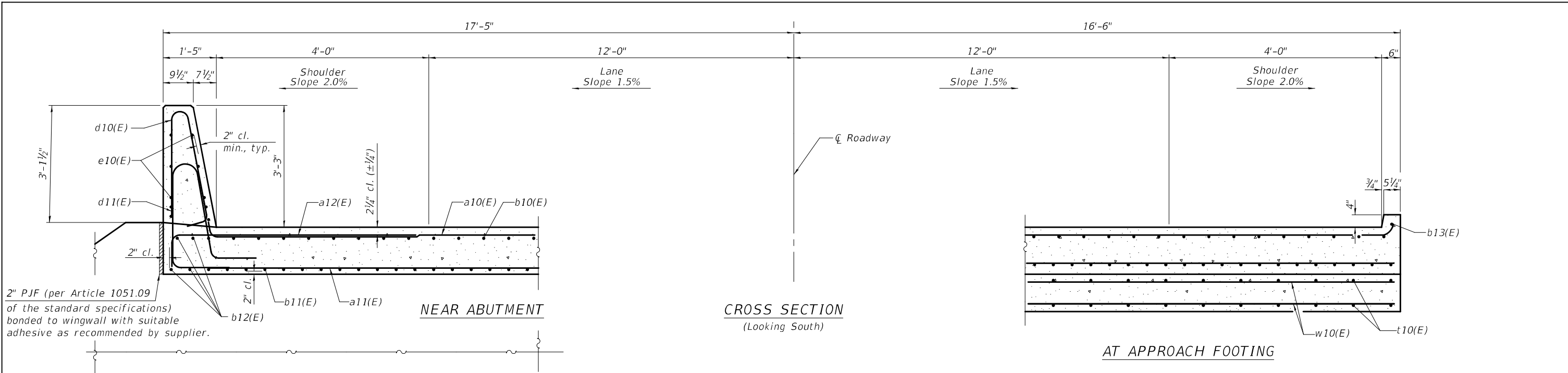
DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Jaime F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	REVISOR -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - HSS / RPN / GRA		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 025-0110

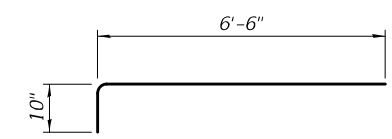
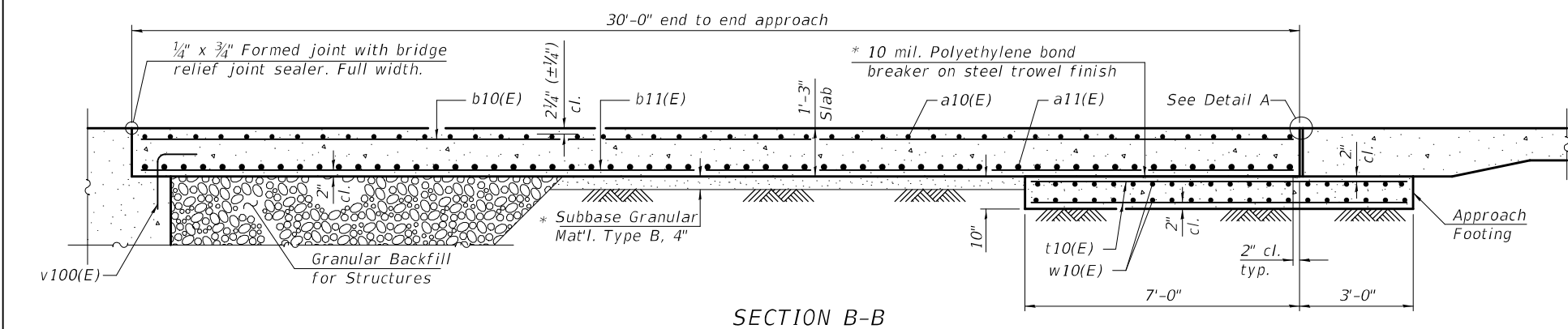
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2801	(103BR) B-1	EFFINGHAM	60	26
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		

SHEET 10 OF 22 SHEETS



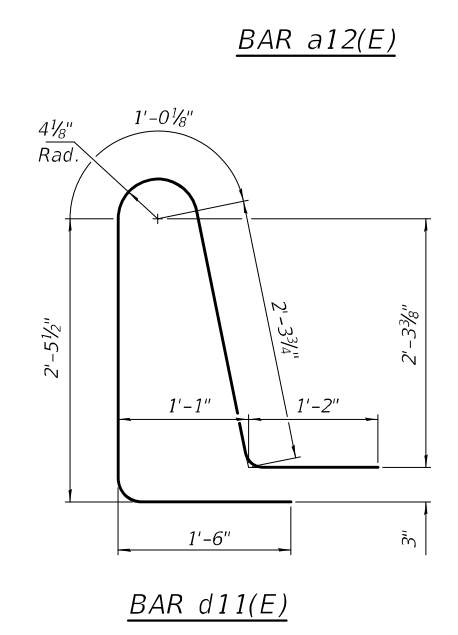
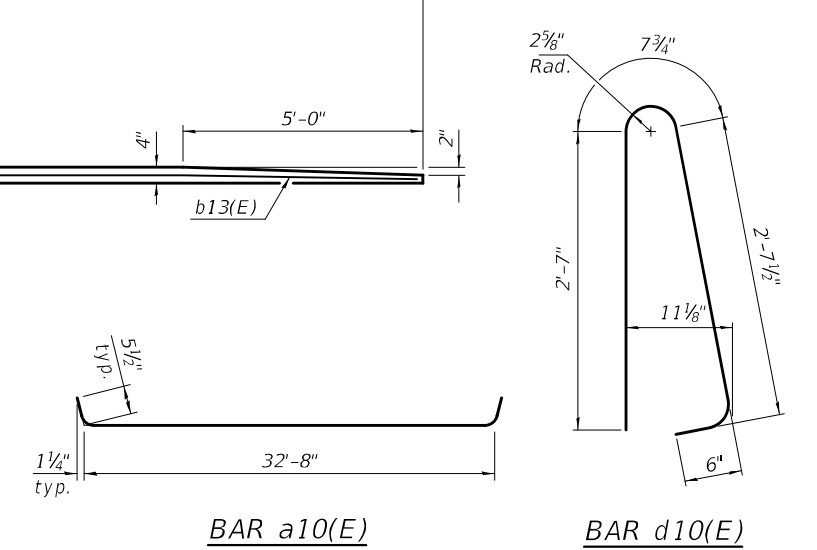
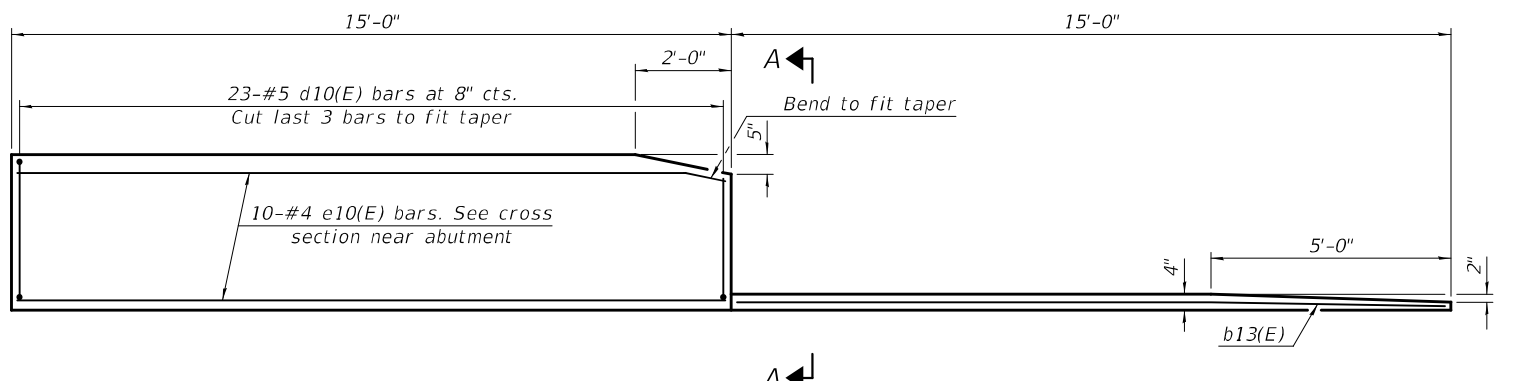
2" PJF (per Article 1051.09 of the standard specifications) bonded to wingwall with suitable adhesive as recommended by supplier.

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 (Omax) = 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 22.



**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a10(E)	92	#5	33'-7"	[Diagram]	
a11(E)	120	#8	32'-8"	[Diagram]	
a12(E)	92	#5	7'-4"	[Diagram]	
b10(E)	100	#5	29'-8"	[Diagram]	
b11(E)	160	#9	29'-8"	[Diagram]	
b12(E)	16	#5	14'-8"	[Diagram]	
b13(E)	4	#4	14'-8"	[Diagram]	
d10(E)	92	#5	6'-5"	[Diagram]	
d11(E)	92	#5	8'-6"	[Diagram]	
e10(E)	40	#4	14'-8"	[Diagram]	
t10(E)	136	#4	9'-8"	[Diagram]	
w10(E)	80	#5	32'-8"	[Diagram]	
Concrete Superstructure				Cu. Yd.	7.7
Concrete Superstructure (Approach Slab)				Cu. Yd.	95.4
Concrete Structures				Cu. Yd.	20.4
Reinforcement Bars, Epoxy Coated				Pound	39,340



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CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	REVISOR -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGE DESIGN	REVISOR -
CHECKED - HSS / RPN / GRA	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -

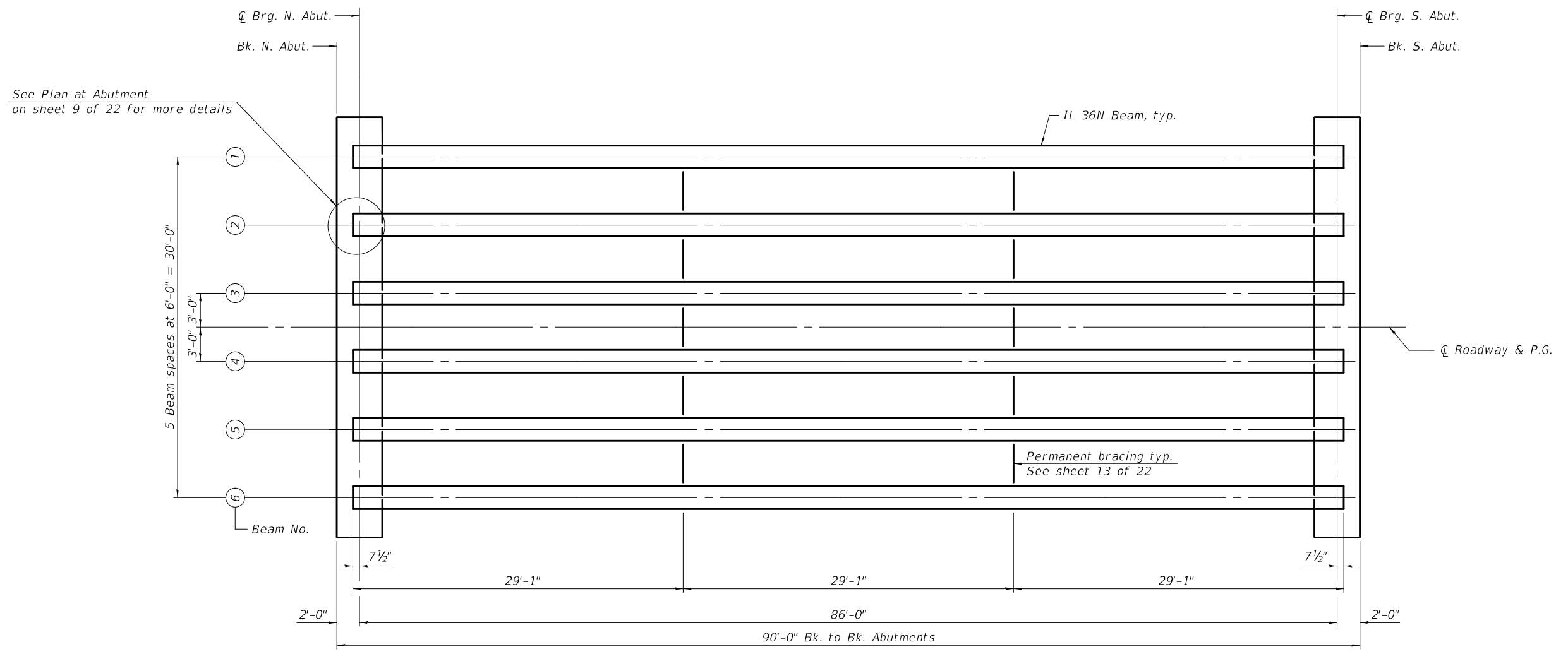
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 025-0110**

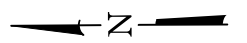
SHEET 11 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	27
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

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**FRAMING PLAN**



Note:  
 For the permanent bracing details, see sheet 13 of 22.

DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Jaime F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	REVISOR -
DRAWN - DENNIS A. POP / GWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISION -
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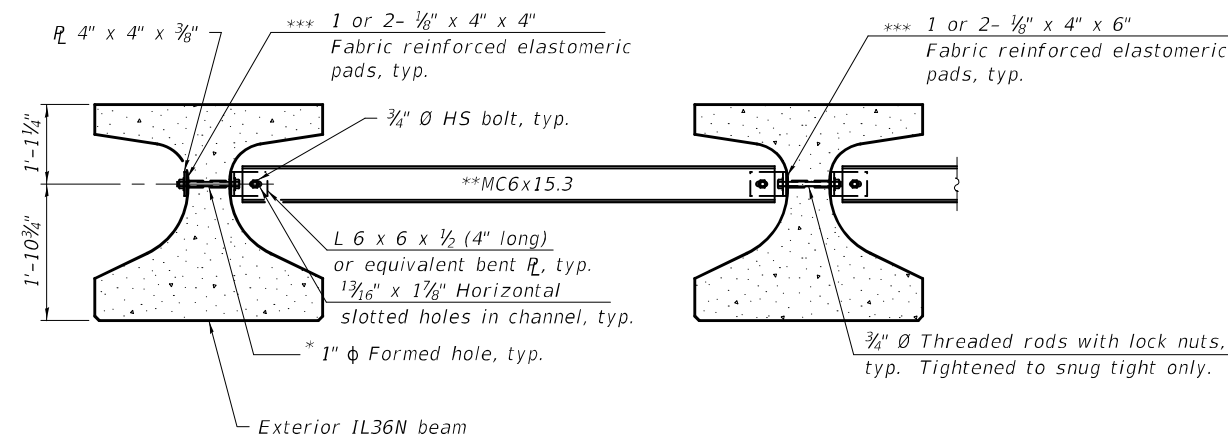
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN  
 STRUCTURE NO. 025-0110**

SHEET 12 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	28
CONTRACT NO. 74352				
		ILLINOIS	FED. AID PROJECT	





**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 1 3/16" Ø unless otherwise noted.

3/16" 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.

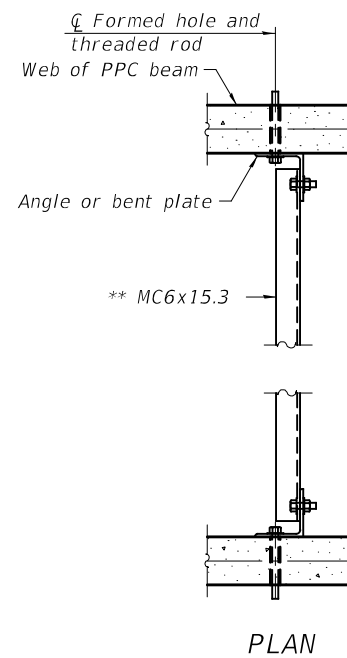
\*\* Alternate MC6x18 channels are permitted to facilitate material acquisition.

\*\*\* Place pads as necessary to provide a flat mounting surface between the steel and concrete.

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I	(in <sup>4</sup> )	100,433
I'	(in <sup>4</sup> )	295,795
Sb	(in <sup>3</sup> )	6,832.1
Sb'	(in <sup>3</sup> )	12,024
St	(in <sup>3</sup> )	4,715.1
St'	(in <sup>3</sup> )	25,947
DC1	(k/')	1.397
MDC1	(k)	1,291.5
DC2	(k/')	0.175
MDC2	(k)	161.8
DW	(k/')	0.300
MDW	(k)	277.3
M <sub>L</sub> + IM	(k)	1,227.9

INTERIOR BEAM REACTION TABLE		
Abut.		
RDC1	(k)	60.1
RDC2	(k)	7.5
RDW	(k)	12.9
R <sub>L</sub> + IM	(k)	75.7
RTotal	(k)	156.2

**PERMANENT BRACING DETAILS**



- I: Non-composite moment of inertia of beam section (in<sup>4</sup>).
- I': Composite moment of inertia of beam section (in<sup>4</sup>).
- Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).
- Sb': Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).
- St: Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).
- St': Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).
- 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<sub>L</sub> + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

MODEL: 0250110-74352-013  
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DESIGNED -	HAMEED S. SALIH
CHECKED -	RYAN P. NEGANGARD
DRAWN -	DENNIS A. POP / GWS
CHECKED -	HSS / RPN / GRA

EXAMINED	<i>Jaime F. Salih</i>	DATE -	OCTOBER 10, 2022
PASSED	<i>Jaime F. Salih</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FRAMING DETAILS  
STRUCTURE NO. 025-0110**

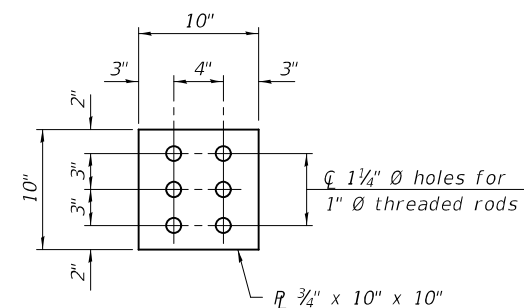
SHEET 13 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	29
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		

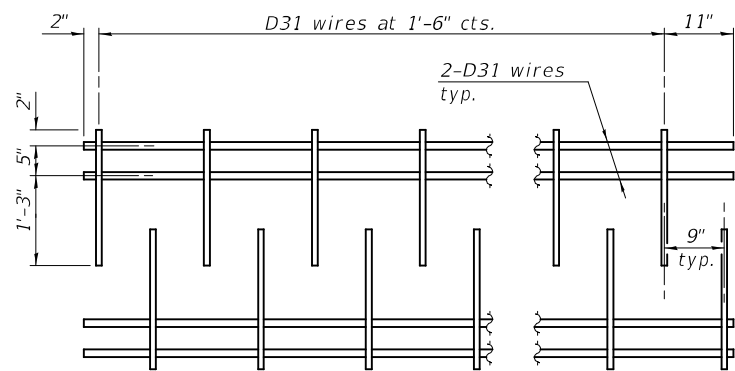


**NOTES**

Inserts for 3/4" 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 1/2" 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 2 1/2" 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.

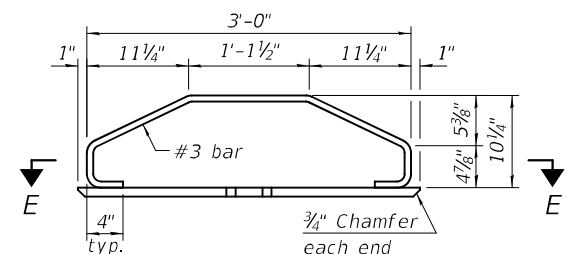


**PLAN - TOP PLATE**

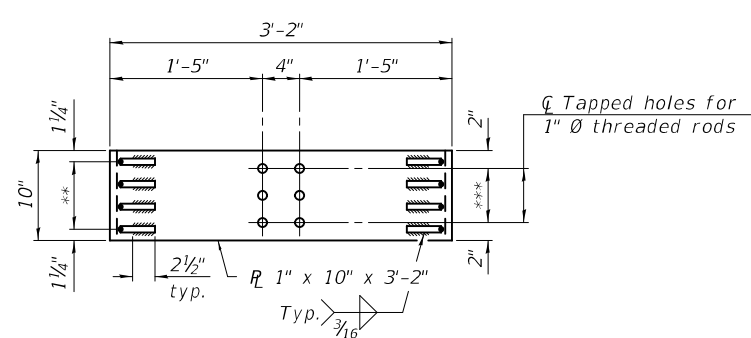


**M1 WWR DETAIL**

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").



**ELEVATION - BOTTOM PLATE ASSEMBLY**



**SECTION E-E**

\*\* 3 Spaces at 2 1/2" = 7 1/2"

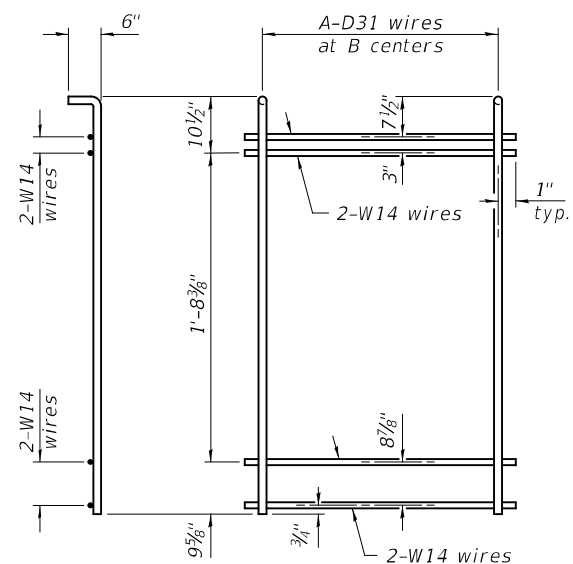
\*\*\* 2 Spaces at 3" = 6"

**TABLE OF DIMENSIONS**

(WWR tables are based on Grade 60)

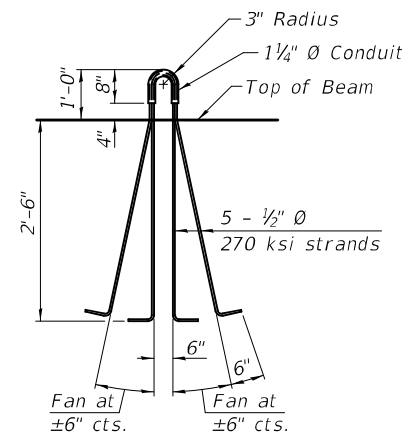
**SPAN 1**

WWR	A	B
M2	9	3"
M3	6	6"
M4	25	1'-6"
M5	9	3"
M6	17	6"
M7	9	1'-0"
M8	12	2'-0"

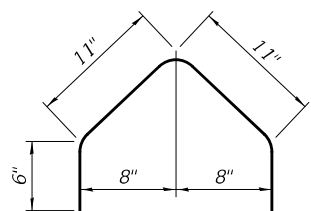


**M5 THRU M8 WWR DETAIL**

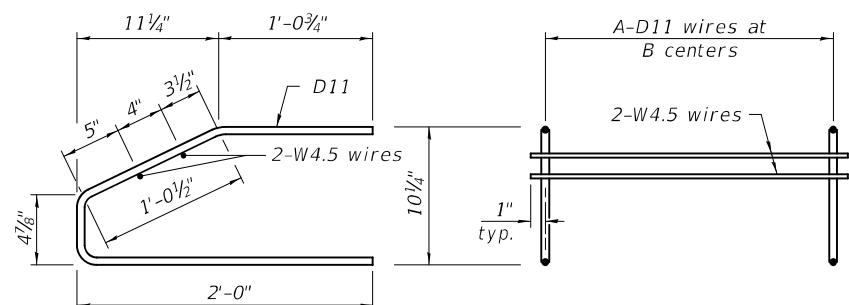
(See Table of Dimensions)



**LIFTING LOOP DETAIL**



**BAR G1(E)**



**M2 THRU M4 WWR DETAIL**

(See Table of Dimensions)

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36N	Ft.	523.5

MODEL: 0250110-74352-015  
 FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

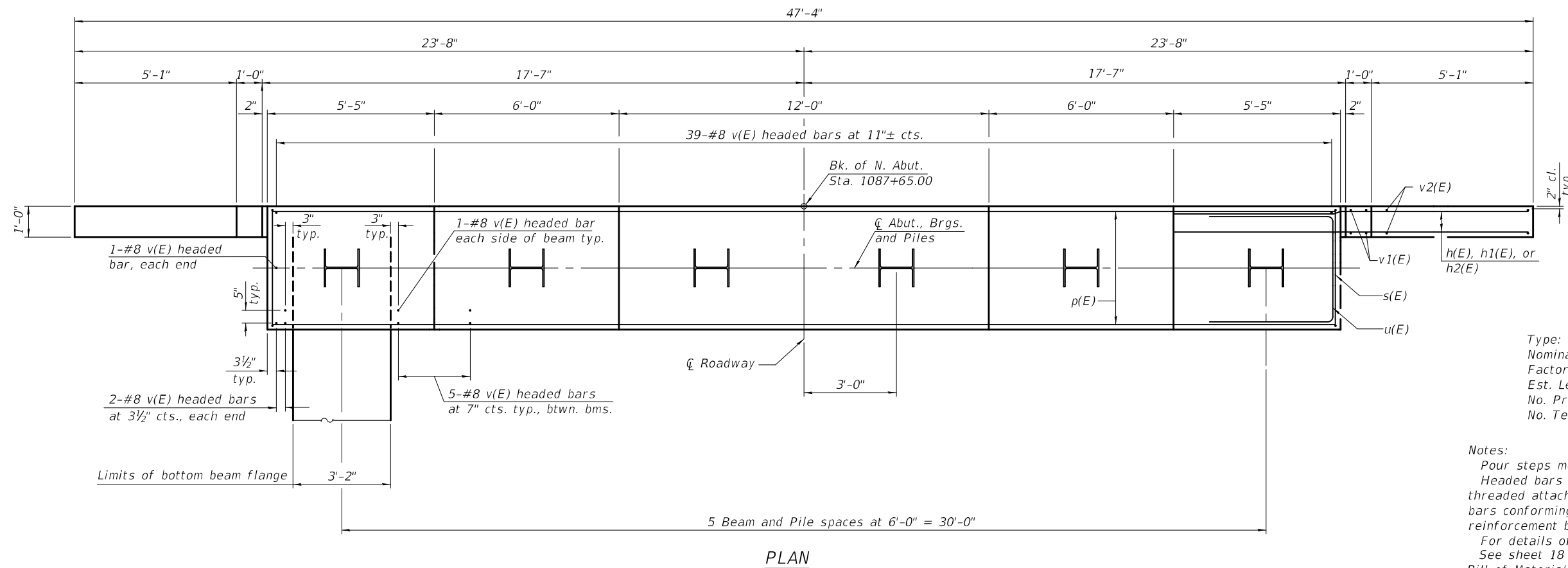
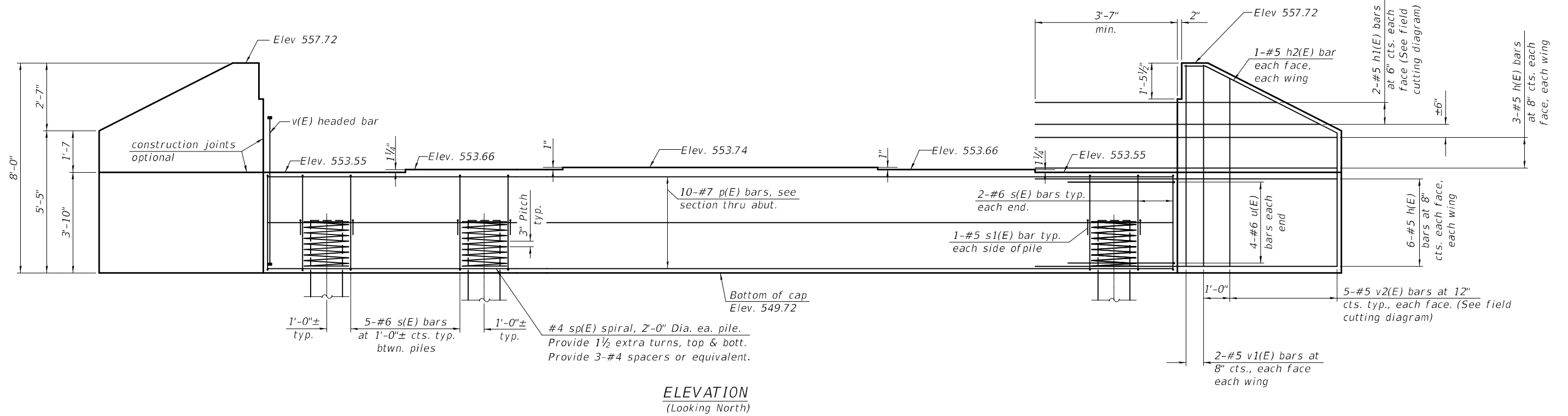
DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Jaime F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	
DRAWN - DENNIS A. POP / GWS		
CHECKED - HSS / RPN / GRA		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL36N BEAM DETAILS  
 STRUCTURE NO. 025-0110**

SHEET 15 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	31
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		



**PILE DATA**

Type: HP14x73  
 Nominal Required Bearing: 578 Kips  
 Factored Resistance Available: 318 Kips  
 Est. Length: 31 ft.  
 No. Production Piles: 5  
 No. Test Piles: 1

**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 19 of 22.  
 See sheet 18 of 22 for additional details and Bill of Material.

MODEL: 0250110-74352-016  
 FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED - HAMEED S. SALIH	EXAMINED -
CHECKED - RYAN P. NEGANGARD	PASSED -
DRAWN - GLENN W. STOVER	
CHECKED - HSS / RPN / GRA	

DATE - OCTOBER 10, 2022

REVISIONS:

REVISOR: *Jaime F. Salih*

REVISION: *Jaime F. Salih*

REVISOR: *Jaime F. Salih*

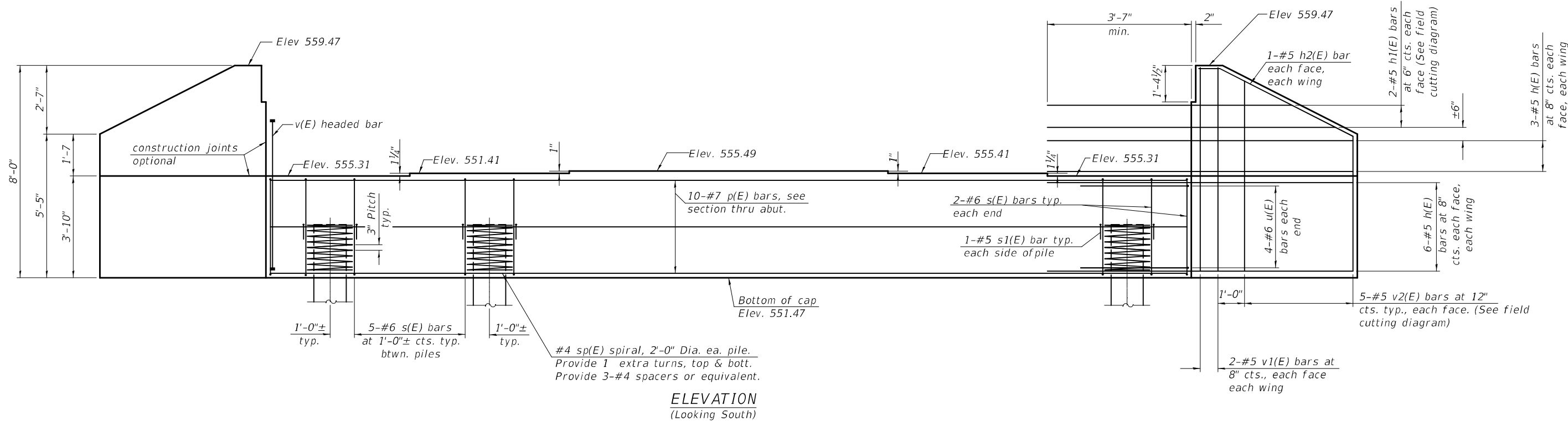
REVISION: *Jaime F. Salih*

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

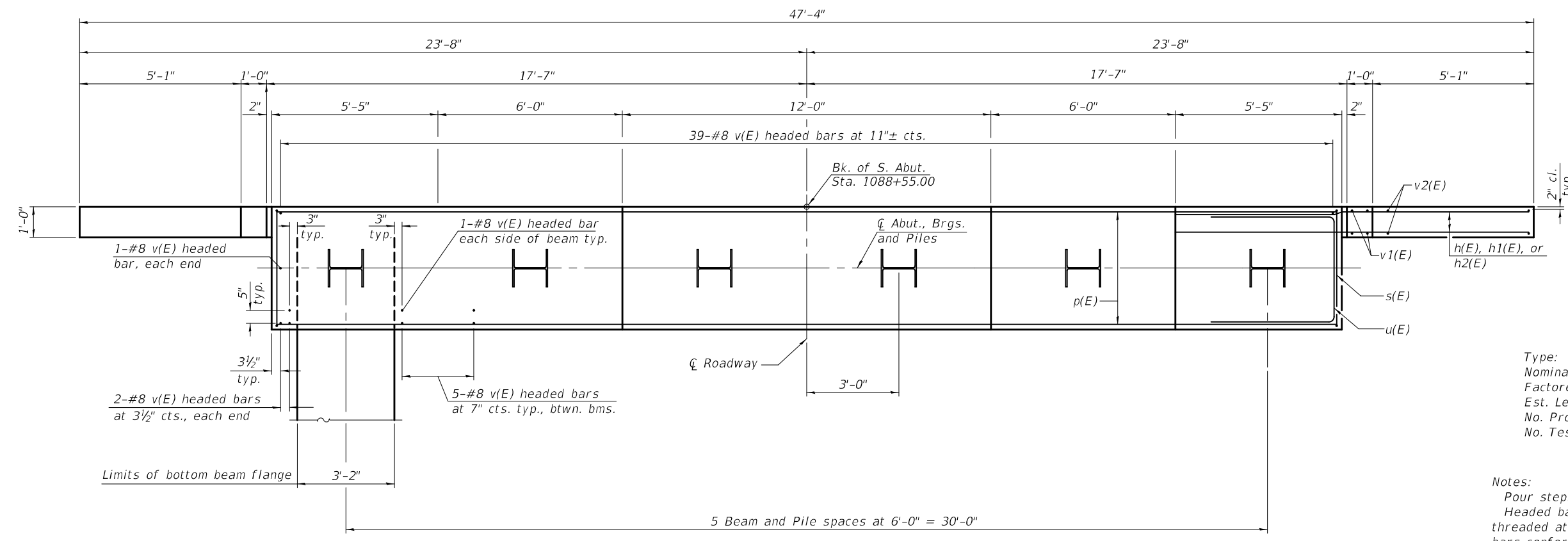
**NORTH ABUTMENT**  
**STRUCTURE NO. 025-0110**

SHEET 16 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	32
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		



**ELEVATION**  
(Looking South)



**PLAN**

**PILE DATA**

Type: HP14x73  
 Nominal Required Bearing: 578 Kips  
 Factored Resistance Available: 318 Kips  
 Est. Length: 31 ft.  
 No. Production Piles: 6  
 No. Test Piles: 0

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 19 of 22.  
 See sheet 18 of 22 for additional details and Bill of Material.

MODEL: 0250110-74352-017  
 FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED - HAMEED S. SALIH	EXAMINED
CHECKED - RYAN P. NEGANGARD	PASSED
DRAWN - GLENN W. STOVER	
CHECKED - HSS / RPN / GRA	

ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

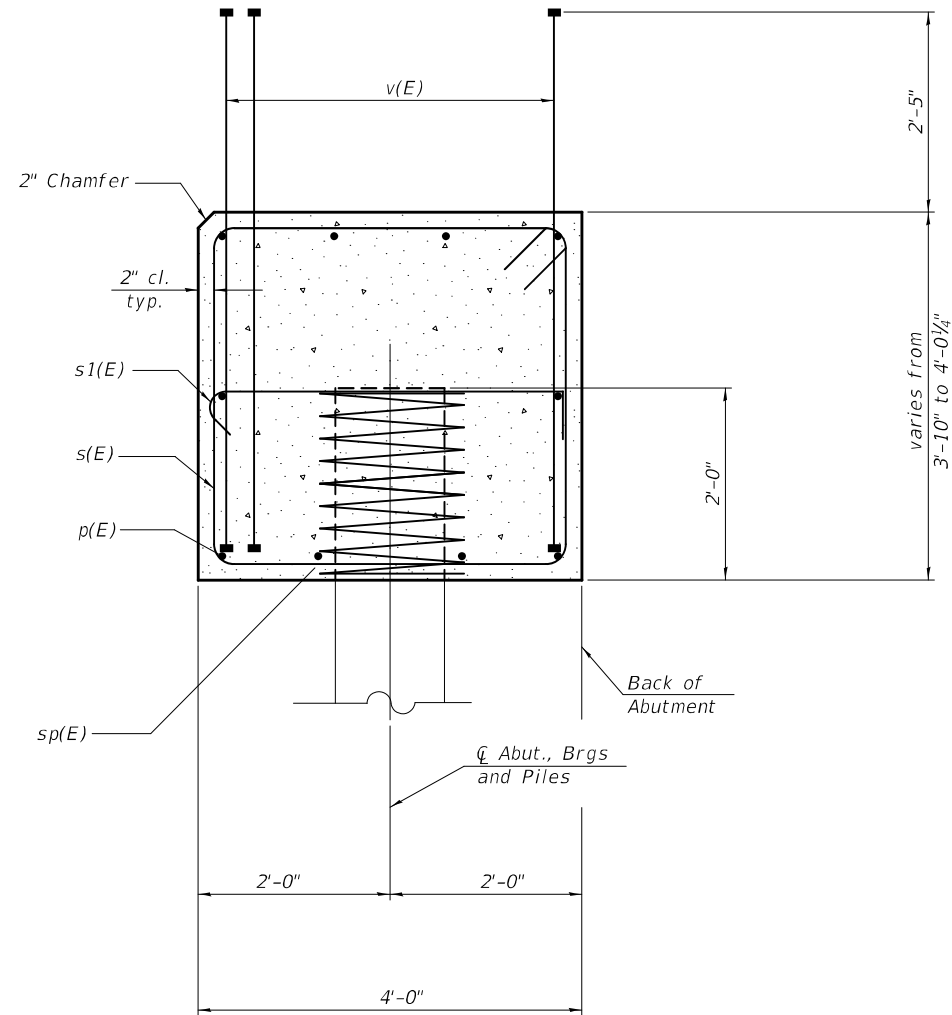
DATE - OCTOBER 10, 2022
REVISED -
REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT**  
**STRUCTURE NO. 025-0110**

SHEET 17 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	33
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				



SEC. THRU ABUTMENT

NORTH ABUTMENT  
BILL OF MATERIAL

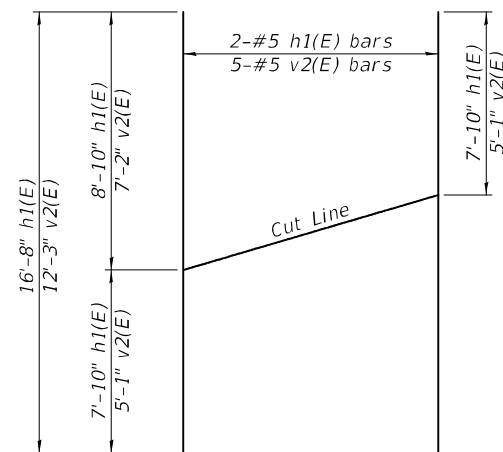
Bar	No.	Size	Length	Shape
h(E)	36	#5	9'-8"	—
h1(E)	4	#5	16'-8"	—
h2(E)	4	#5	6'-5"	—
p(E)	10	#7	34'-6"	—
s(E)	29	#6	15'-8"	□
s1(E)	12	#5	4'-8"	┌
sp(E)	6	#4	2'-0"	≡
u(E)	8	#6	12'-2"	└
v(E)	82	#8	5'-11"	—
v1(E)	8	#5	7'-8"	—
v2(E)	10	#5	12'-3"	—
Structure Excavation			Cu. Yd.	99
Concrete Structures			Cu. Yd.	23.5
Reinforcement Bars, Epoxy Coated			Pound	3,810
Furnishing Steel Piles, HP14x73			Foot	155
Driving Piles			Foot	155
Steel Test Pile, HP14x73			Each	1

\*\* Length is height of spiral.

SOUTH ABUTMENT  
BILL OF MATERIAL

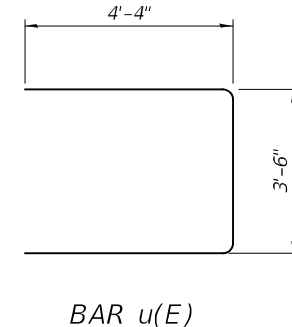
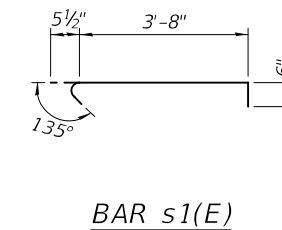
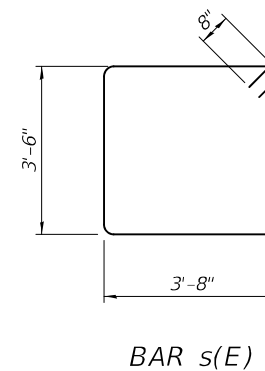
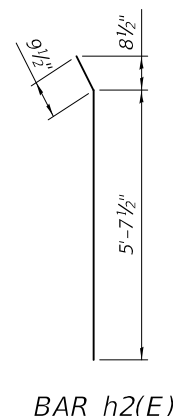
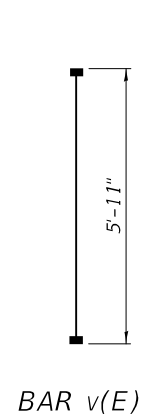
Bar	No.	Size	Length	Shape
h(E)	36	#5	9'-8"	—
h1(E)	4	#5	16'-8"	—
h2(E)	4	#5	6'-5"	—
p(E)	10	#7	34'-6"	—
s(E)	29	#6	15'-8"	□
s1(E)	12	#5	4'-8"	┌
sp(E)	6	#4	2'-0"	≡
u(E)	8	#6	12'-2"	└
v(E)	82	#8	5'-11"	—
v1(E)	8	#5	7'-8"	—
v2(E)	10	#5	12'-3"	—
Structure Excavation			Cu. Yd.	101
Concrete Structures			Cu. Yd.	23.5
Reinforcement Bars, Epoxy Coated			Pound	3,810
Furnishing Steel Piles, HP14x73			Foot	186
Driving Piles			Foot	186

\* Length is height of spiral.



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) bars full length. Cut as shown and use remainder of bars in opposite wing.



MODEL: 0250110-74352-018  
FILE NAME: p:\w\p\w\benley.com\FW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

DESIGNED -	HAMEED S. SALIH
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	HSS / RPN / GRA

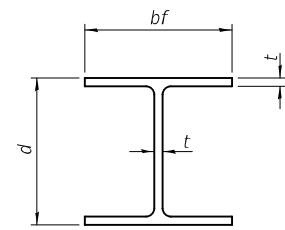
EXAMINED	<i>Jaime F. Salih</i>	DATE -	OCTOBER 10, 2022
PASSED	<i>Jaime F. Salih</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS  
STRUCTURE NO. 025-0110

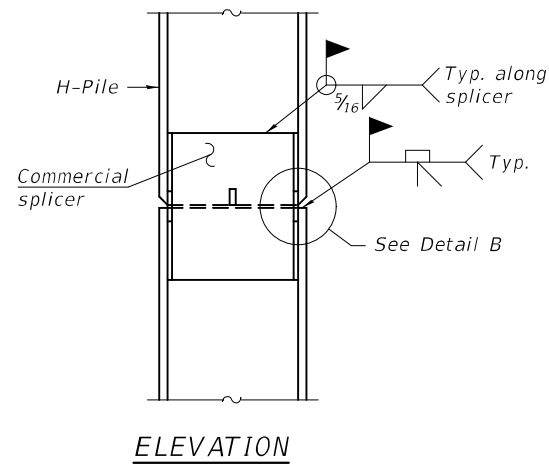
SHEET 18 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	34
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		

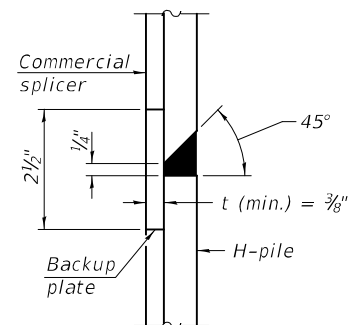


**STEEL PILE TABLE**

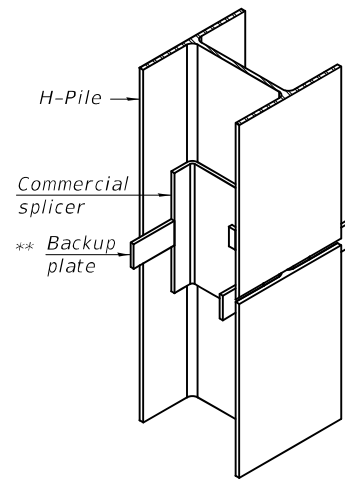
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

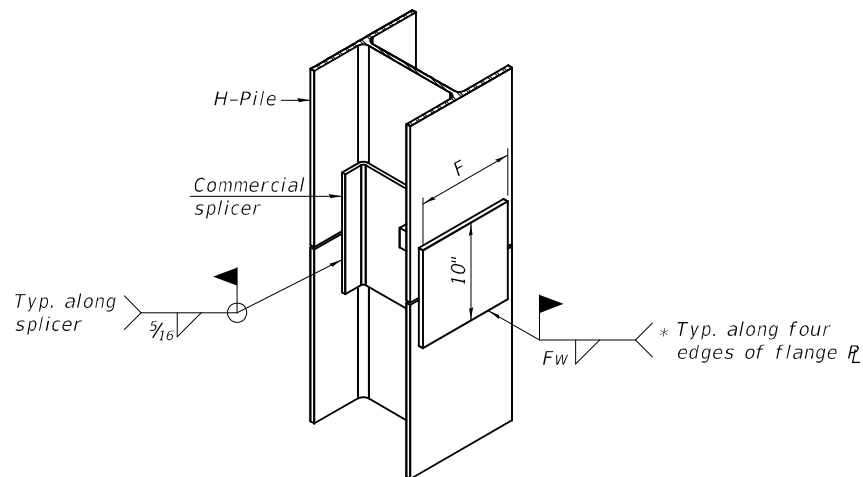


**DETAIL "B"**



**ISOMETRIC VIEW**

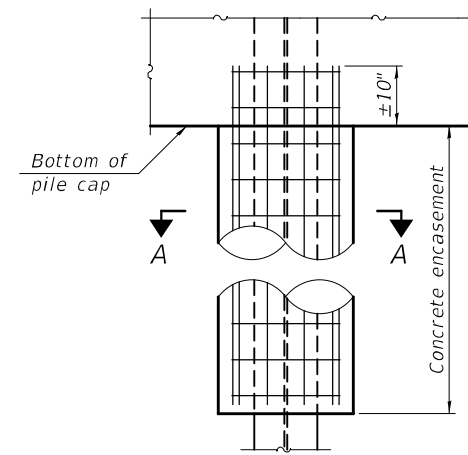
**WELDED COMMERCIAL SPLICE**



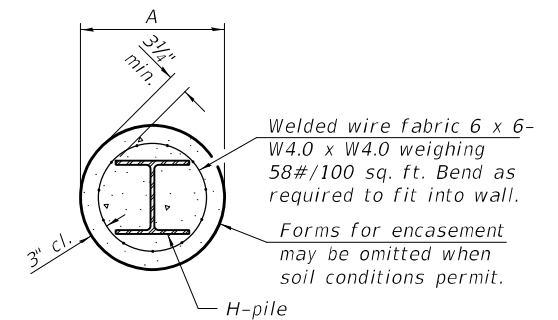
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

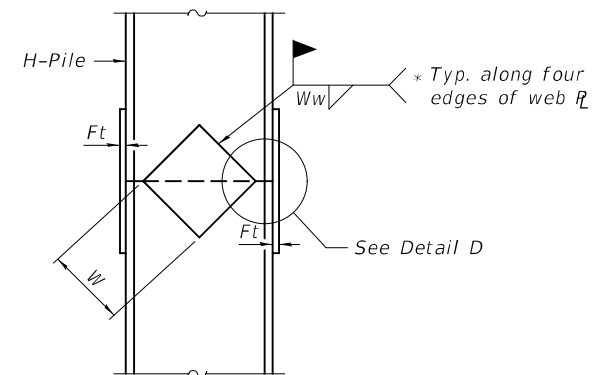


**ELEVATION**

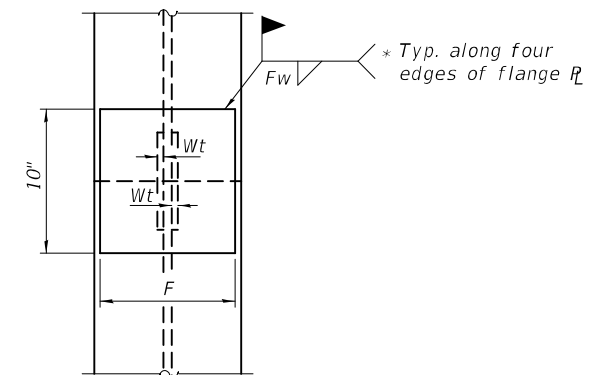


**SECTION A-A**

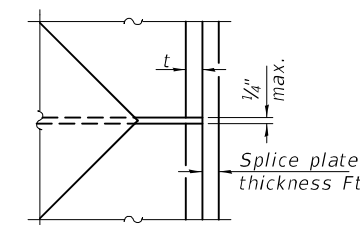
**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**



**ELEVATION**



**END VIEW**

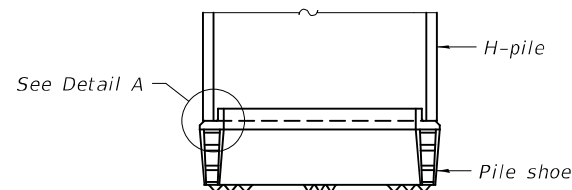


**DETAIL D**

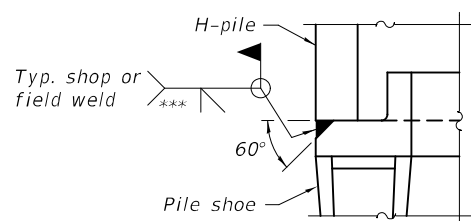
**WELDED PLATE FIELD SPLICE**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

**ELEVATION**



**SHOE ATTACHMENT**



**DETAIL A**

**SHOE ATTACHMENT**

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-1-2020

DESIGNED - HAMEED S. SALIH	EXAMINED -
CHECKED - RYAN P. NEGANGARD	PASSED -
DRAWN - DENNIS A. POP / GWS	
CHECKED - HSS / RPN / GRA	

DATE - OCTOBER 10, 2022	Signature: <i>Jaime F. Salih</i> ENGINEER OF BRIDGE DESIGN
REVISIONS	Signature: <i>Jaime F. Salih</i> ENGINEER OF BRIDGES AND STRUCTURES

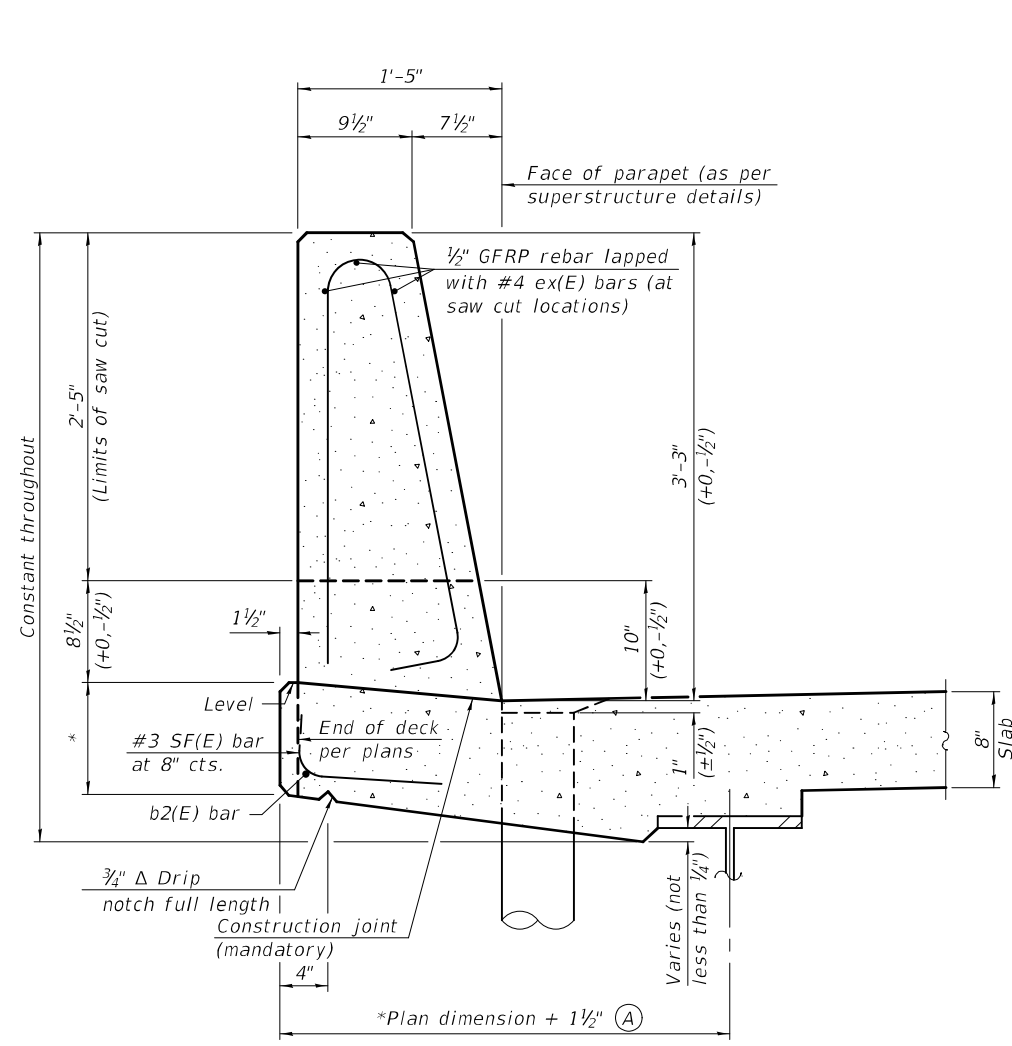
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 025-0110

SHEET 19 OF 22 SHEETS

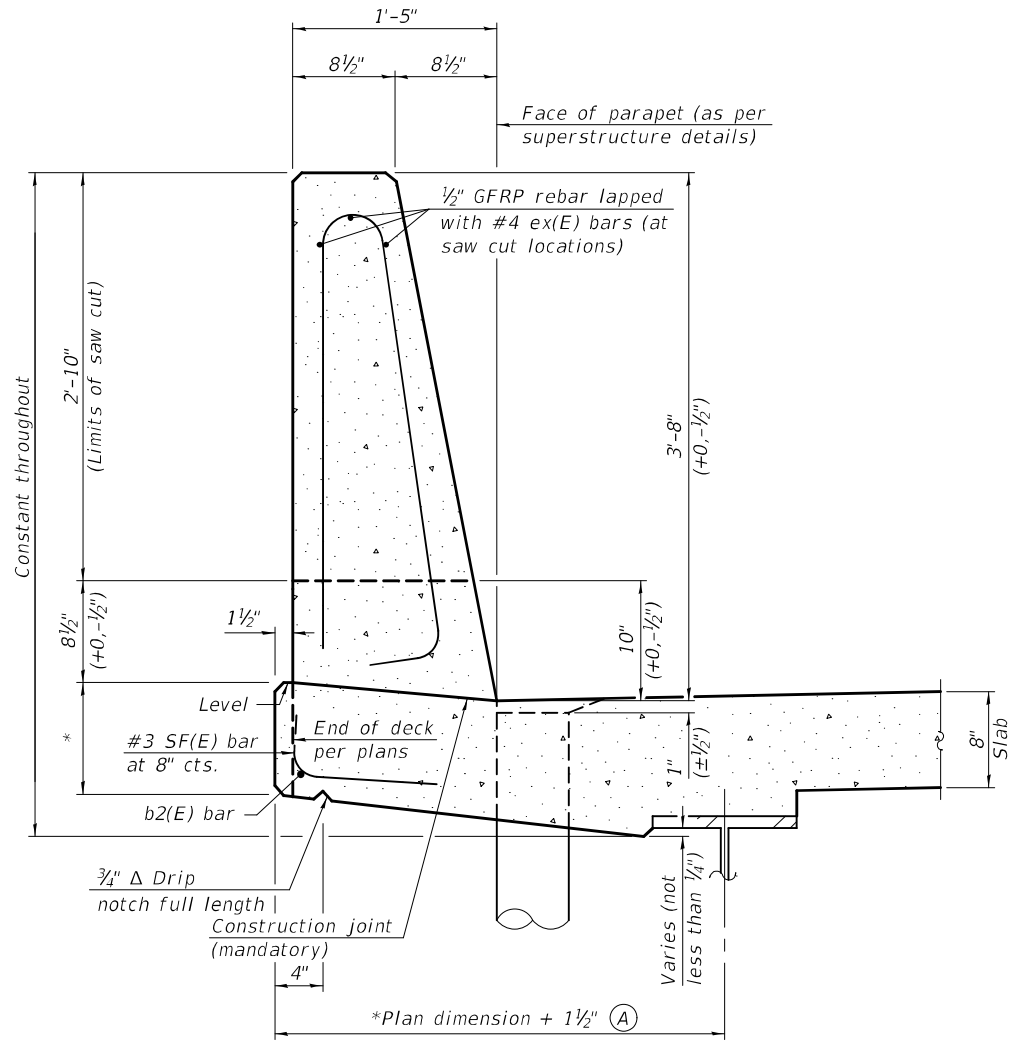
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	35
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

MODEL: 0250110-74352-019  
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn  
10/11/2022 11:23:43 AM



**39" CONSTANT-SLOPE  
PARAPET SECTION**

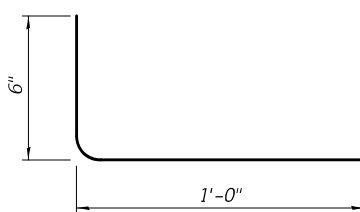
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



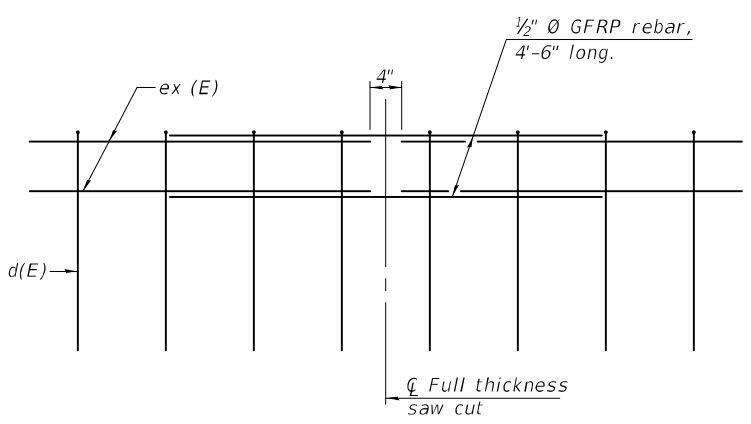
**44" CONSTANT-SLOPE  
PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

\*See Superstructure Details.



**#3 (E) BAR**



**GFRP REBAR STIFFENING DETAIL**

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

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.

MODEL: 0250110-74352-020  
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0250110\CADD Plans\0250110-74352.dgn

SFP 39-44 1-1-2020

DESIGNED - HAMEED S. SALIH	EXAMINED - <i>Jaime F. Salih</i>	DATE - OCTOBER 10, 2022
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jaime F. Salih</i>	REVISOR -
DRAWN - DENNIS A. POP / GWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - HSS / RPN / GRA		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION  
STRUCTURE NO. 025-0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR) B-1	EFFINGHAM	60	36
CONTRACT NO. 74352				
ILLINOIS		FED. AID PROJECT		

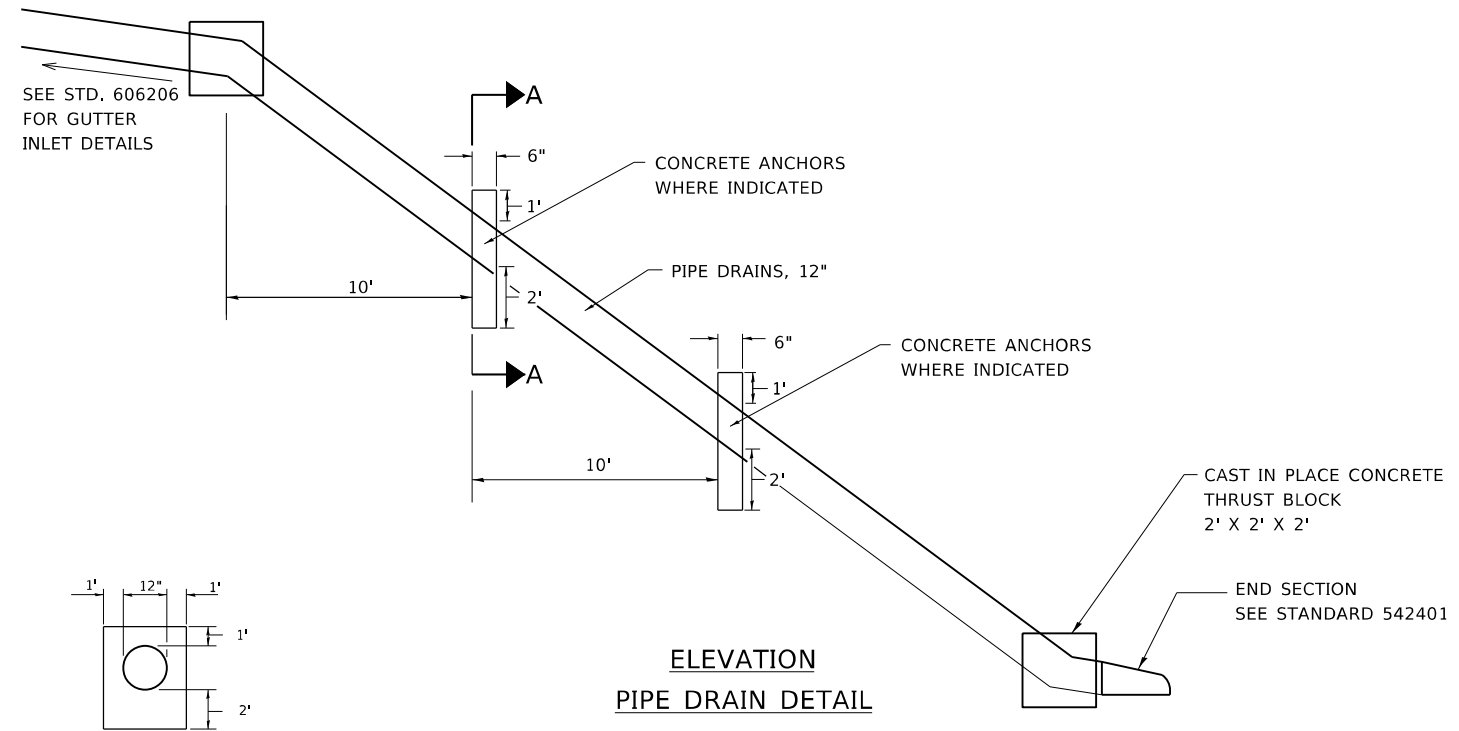
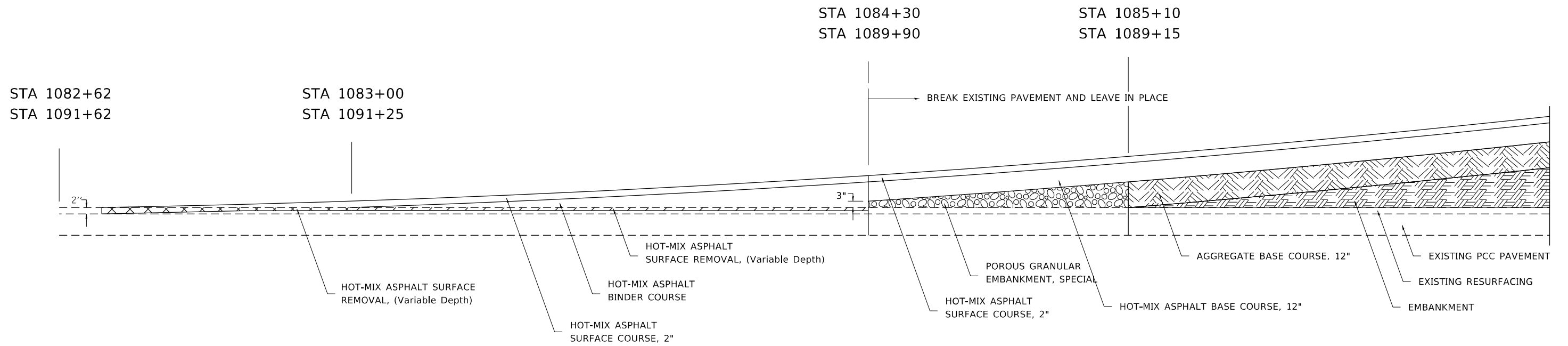
SHEET 20 OF 22 SHEETS







# HMA PROFILE GRADE CHANGE DETAIL



SECTION A-A  
CONCRETE ANCHOR

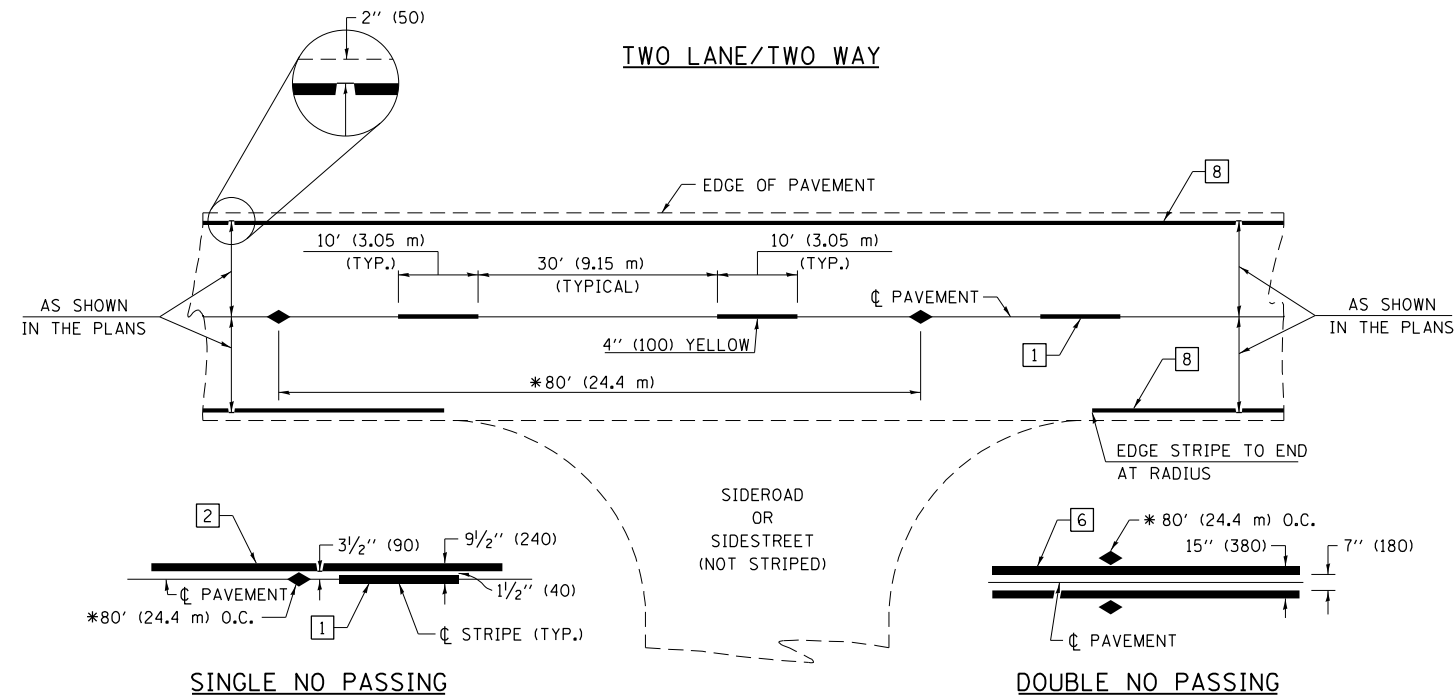
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

JOB DETAILS

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

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

F.A.S. RTE. 2801	SECTION (103BR)B-1	COUNTY EFFINGHAM	TOTAL SHEETS 60	SHEET NO. 39
				CONTRACT NO. 74352
ILLINOIS FED. AID PROJECT				



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

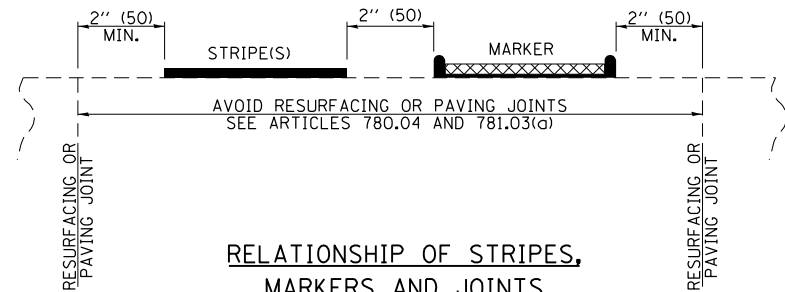
**PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) 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 4" (100) PARKING WHITE

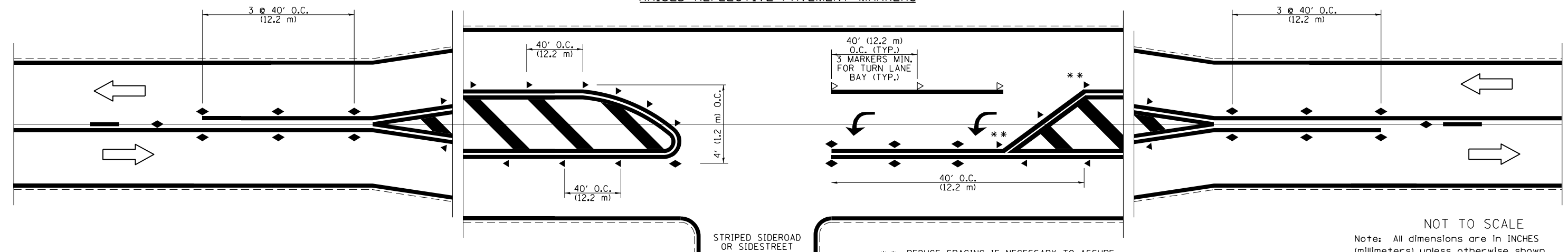
**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RAISED REFLECTIVE PAVEMENT MARKERS**



\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 78000001**

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22
pw:\1ldot-pw\bentley.com\PWIDOT\Documents\DOT Offices\District 7\Projects\74352\CADD\Drawings\Drawings\74352-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	40
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

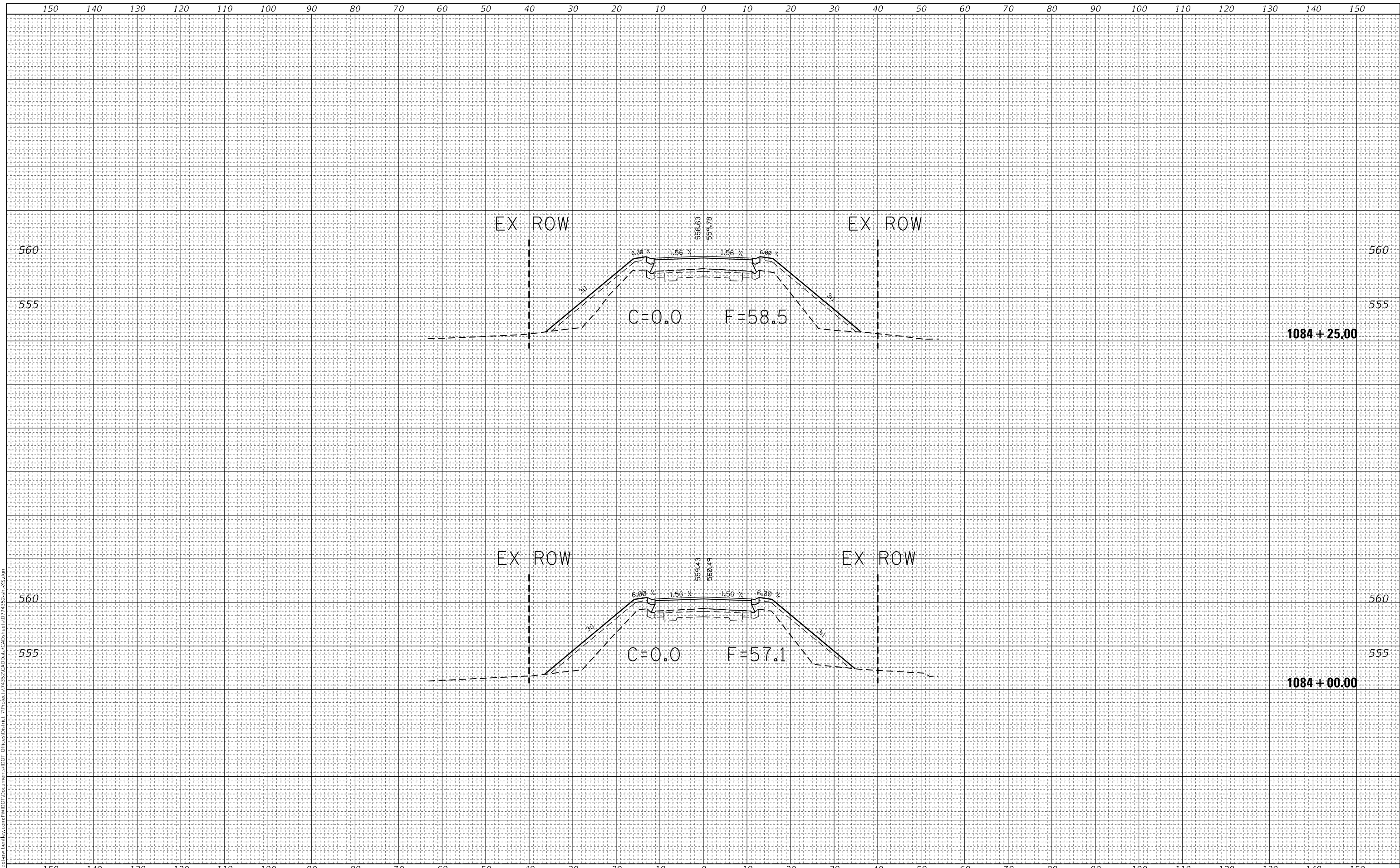




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NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,000' = 1"	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 3 OF 20 SHEETS STA. 1084+00.00 TO STA. 1084+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	43
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

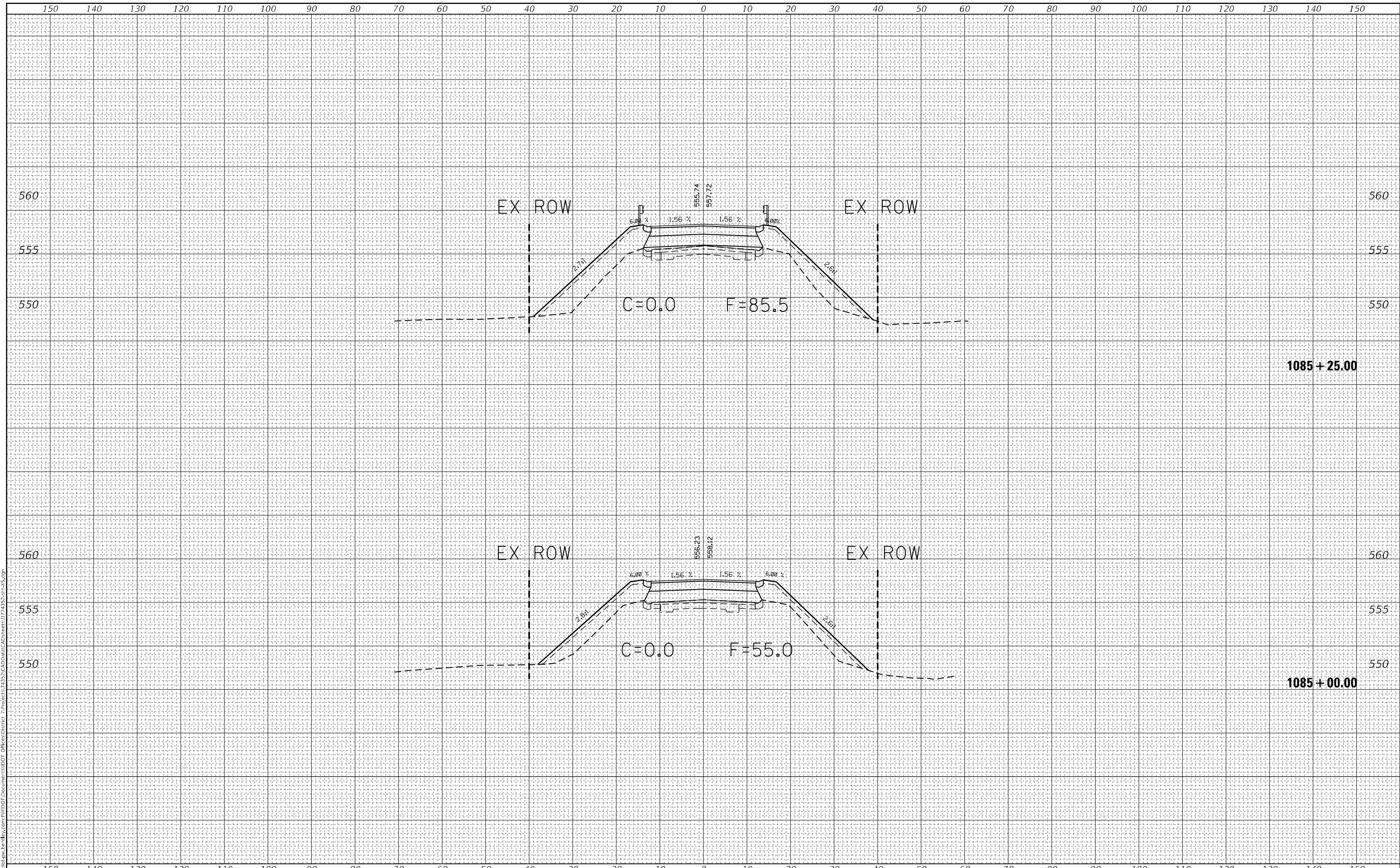




FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

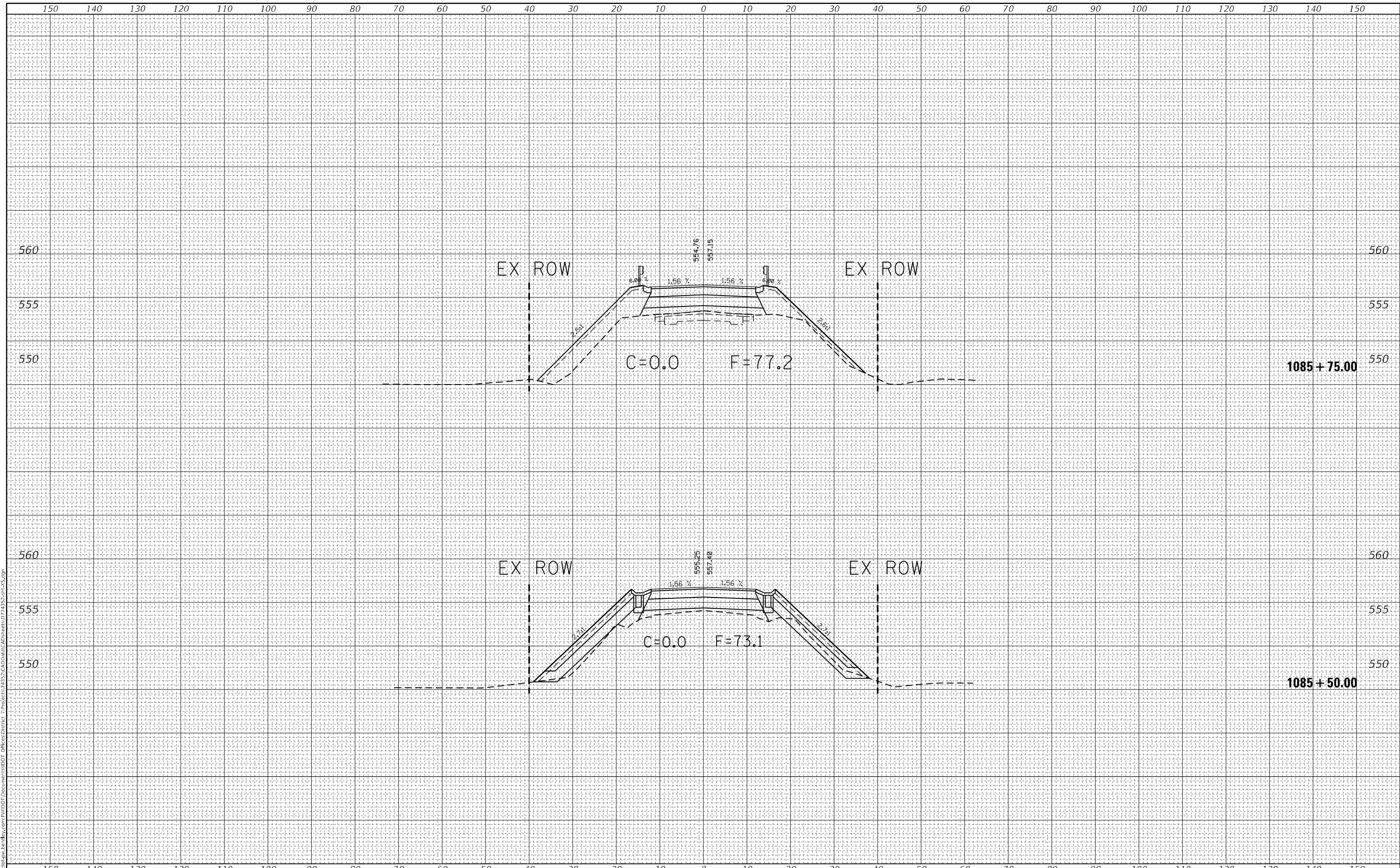
SCALE: SHEET 5 OF 20 SHEETS STA. 1085+00.00 TO STA. 1085+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	45
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 6 OF 20 SHEETS STA. 1085+50.00 TO STA. 1085+75.00

F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	46
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

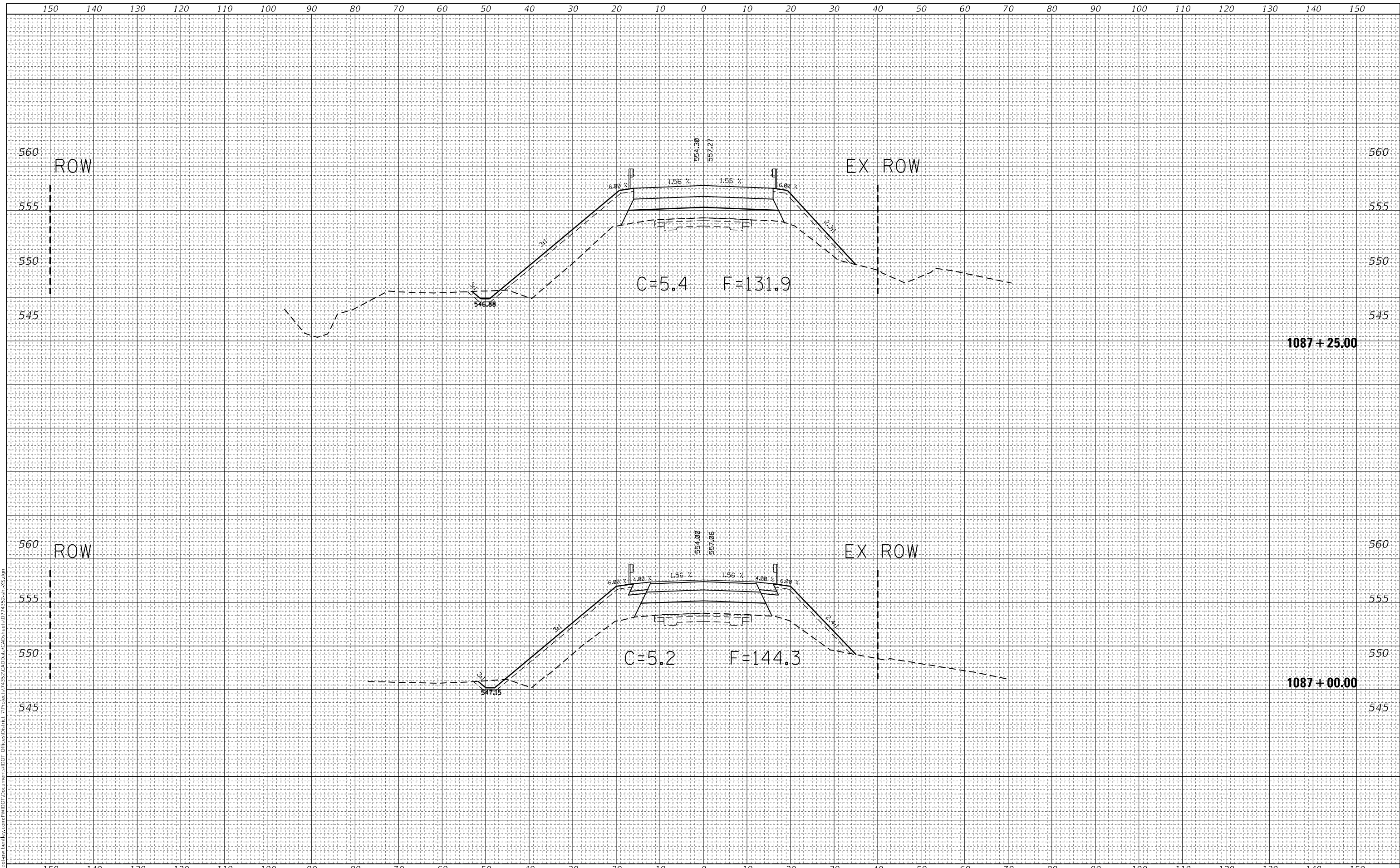




FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

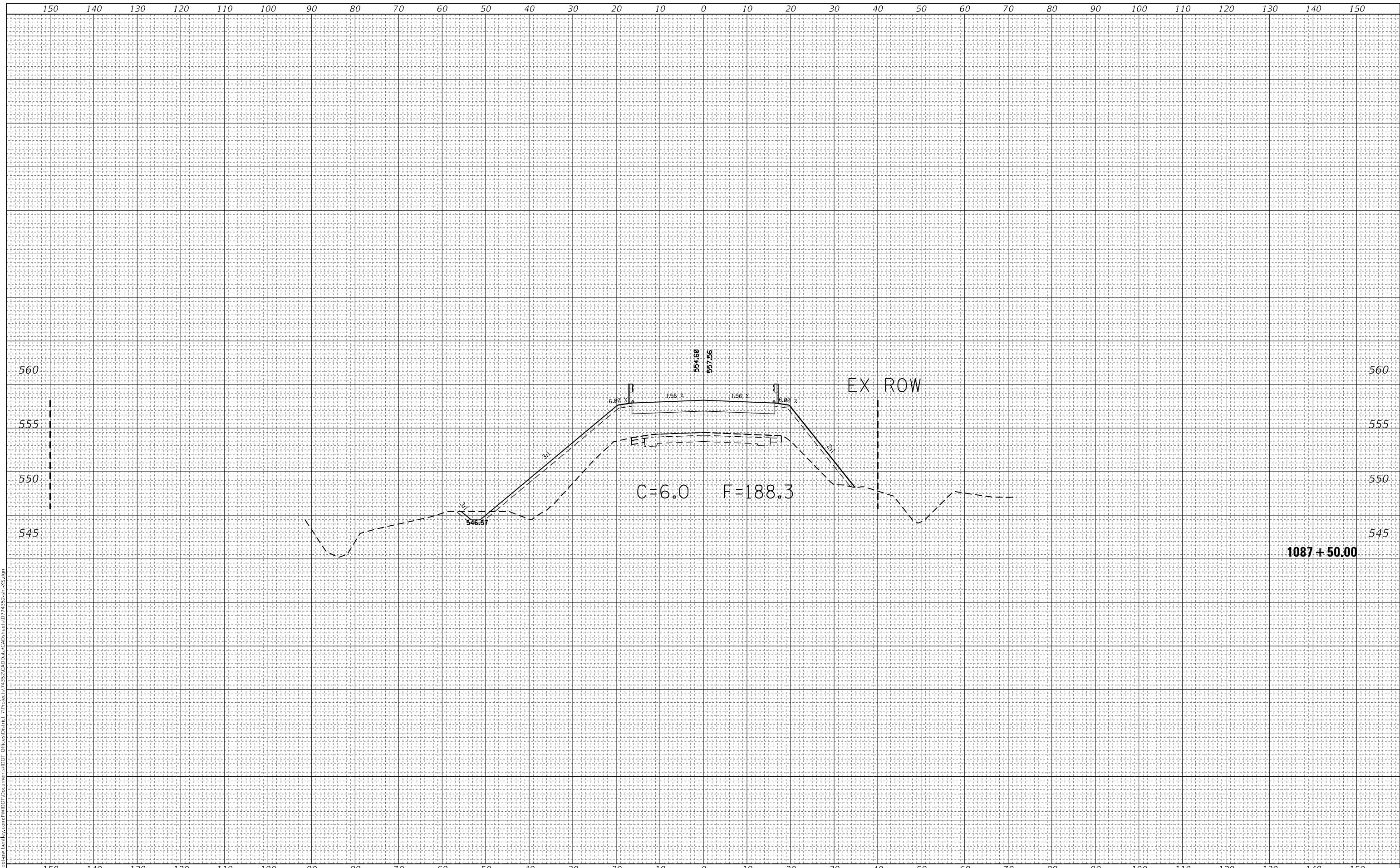
SCALE: SHEET 9 OF 20 SHEETS STA. 1087+00.00 TO STA. 1087+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	49
				CONTRACT NO. 74352
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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**1087 + 50.00**

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

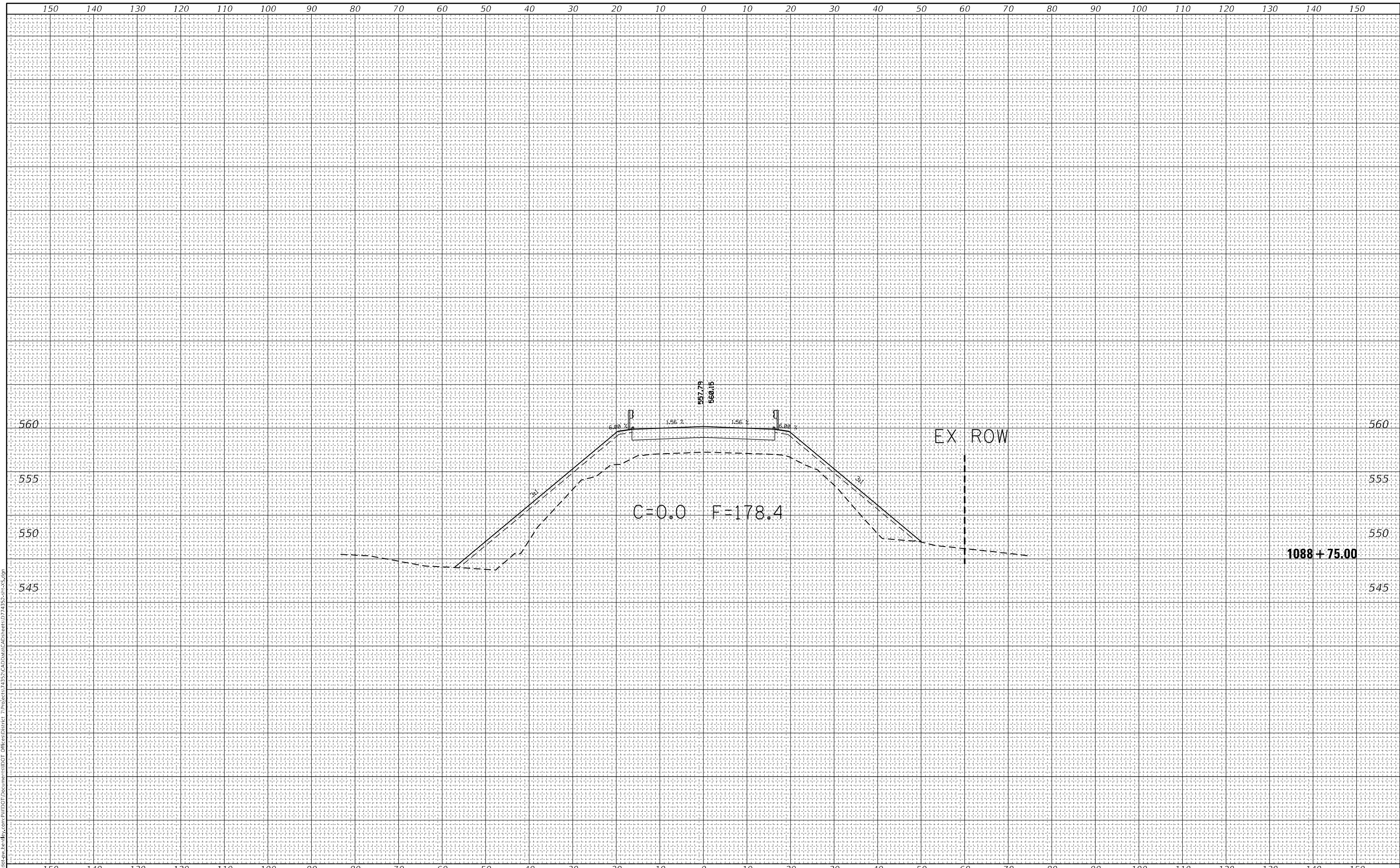
SCALE: SHEET 10 OF 20 SHEETS STA. 1087+50.00 TO STA. 1087+50.00

F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	50
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 11 OF 20 SHEETS STA. 1088+75.00 TO STA. 1088+75.00

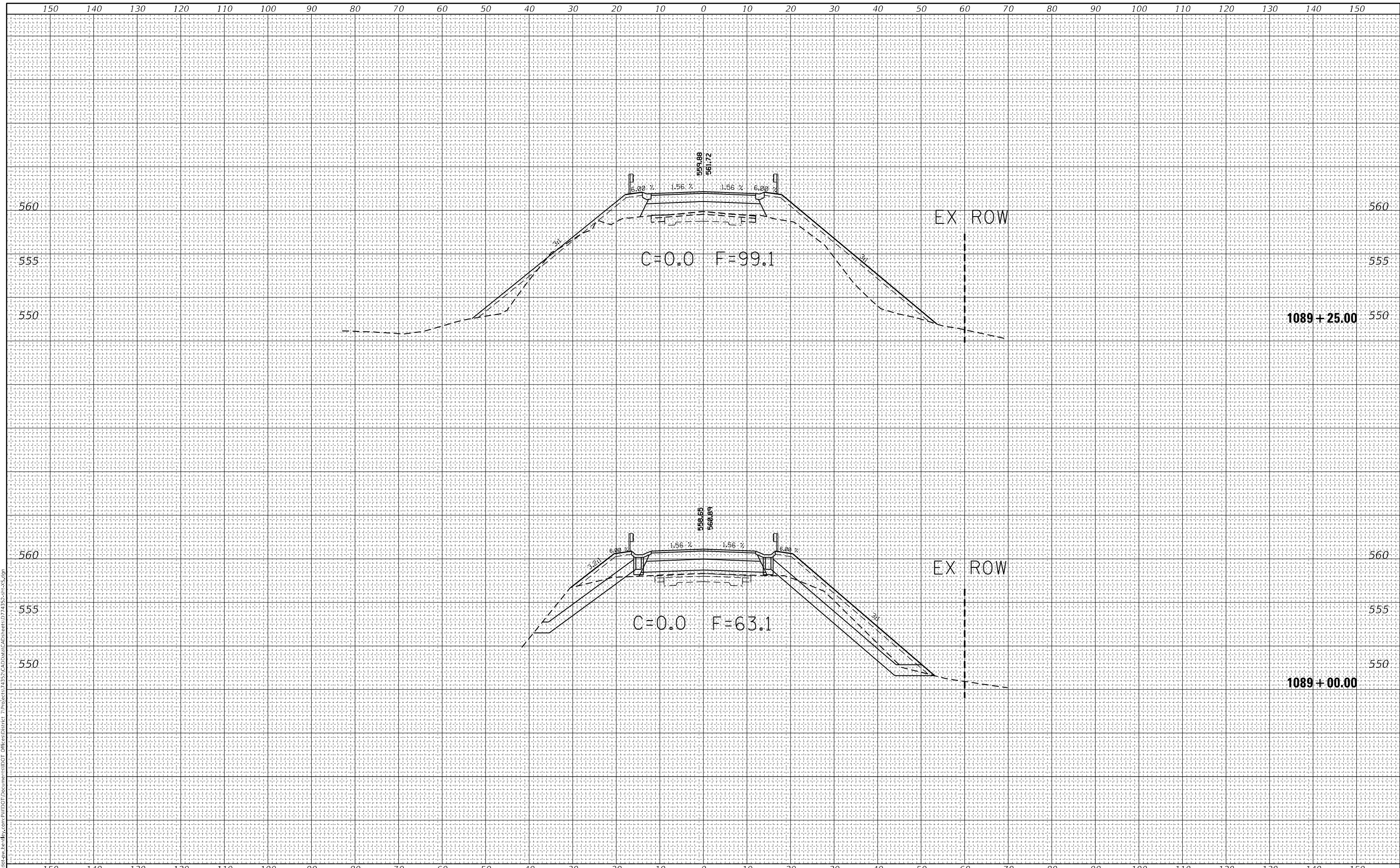
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	51
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				



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

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

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 12 OF 20 SHEETS STA. 1089+00.00 TO STA. 1089+25.00

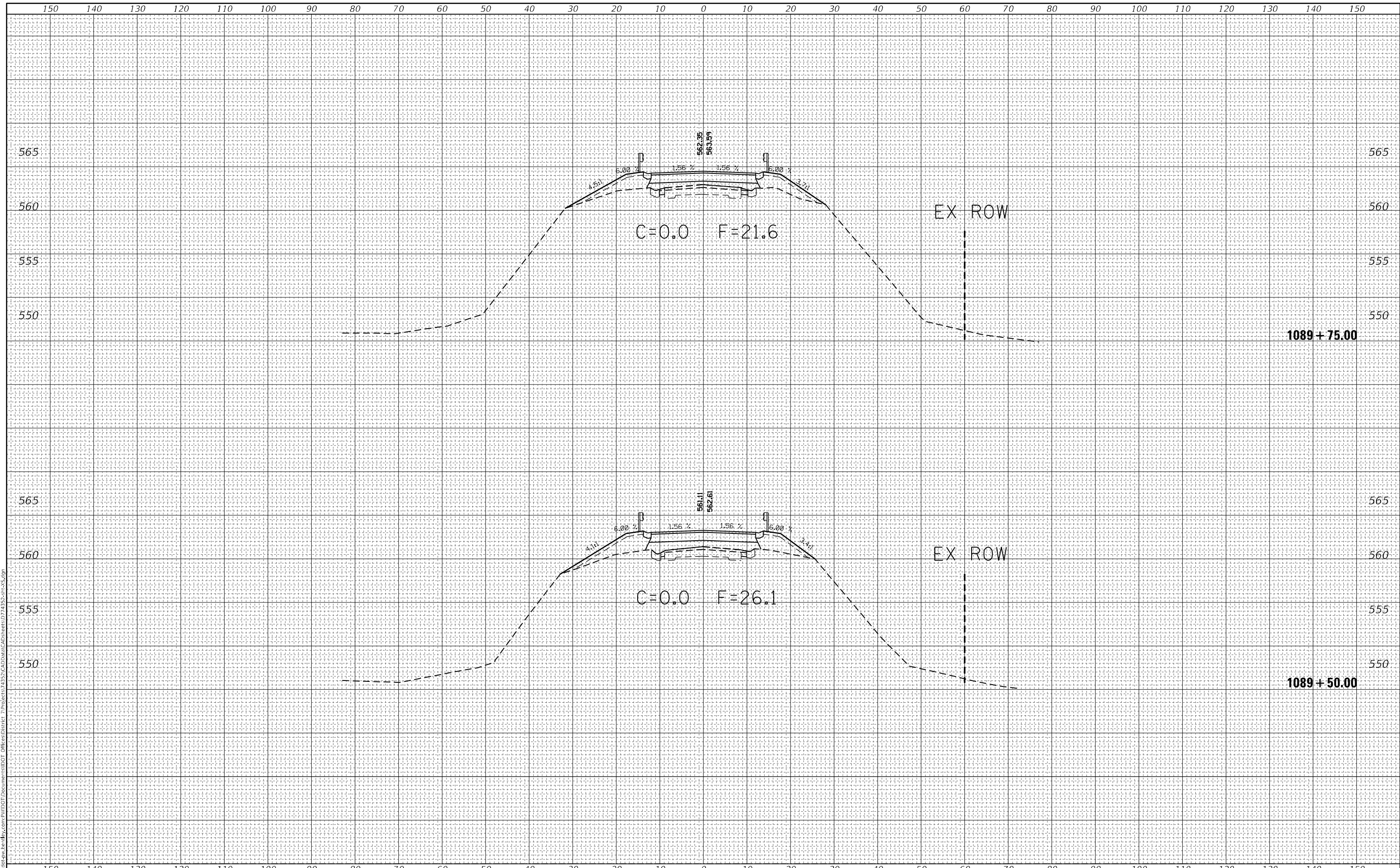
F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	52
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				



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

DATE	
BY	
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TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

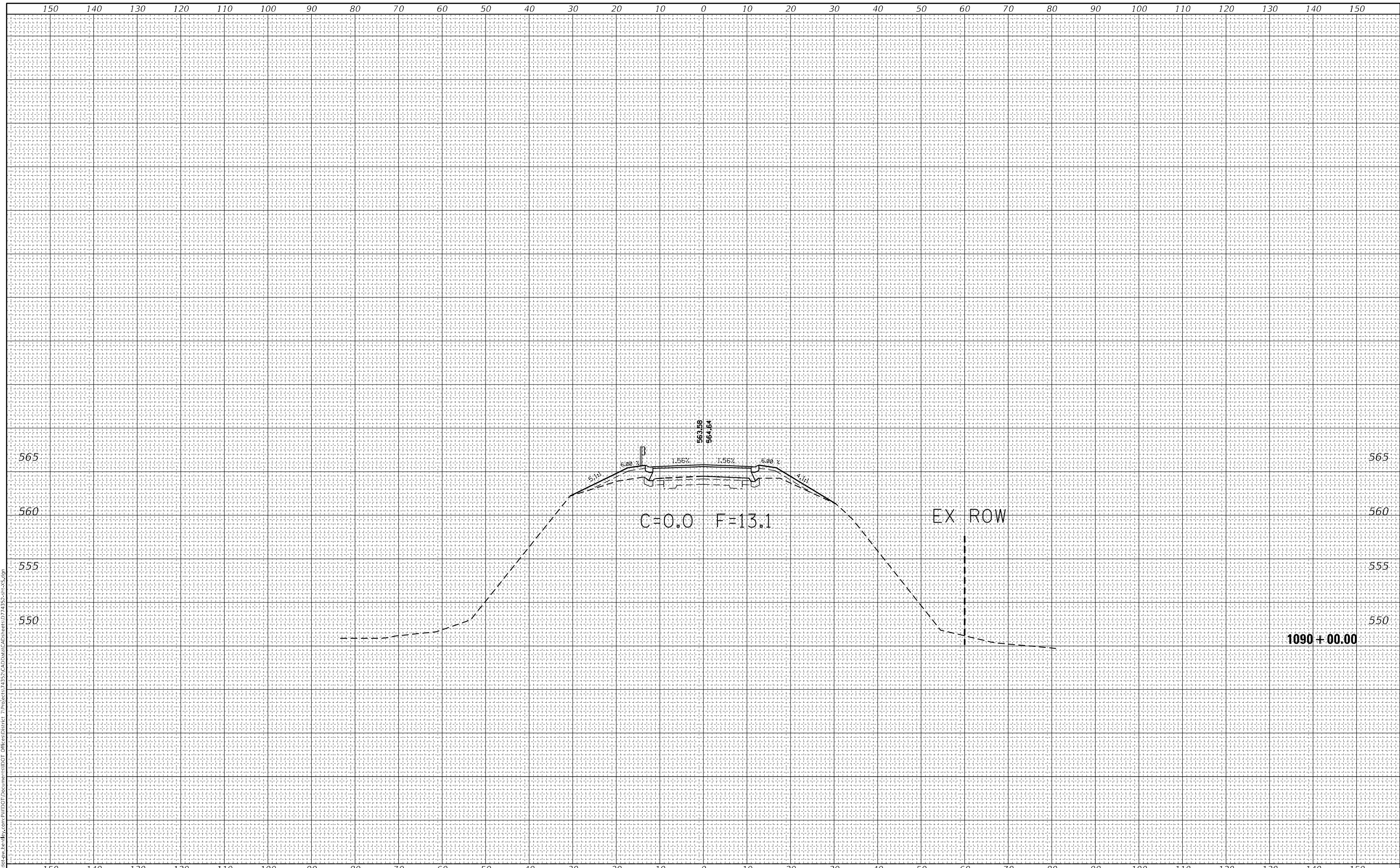
SCALE: SHEET 13 OF 20 SHEETS STA. 1089+50.00 TO STA. 1089+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	53
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 14 OF 20 SHEETS STA. 1090+00.00 TO STA. 1090+00.00

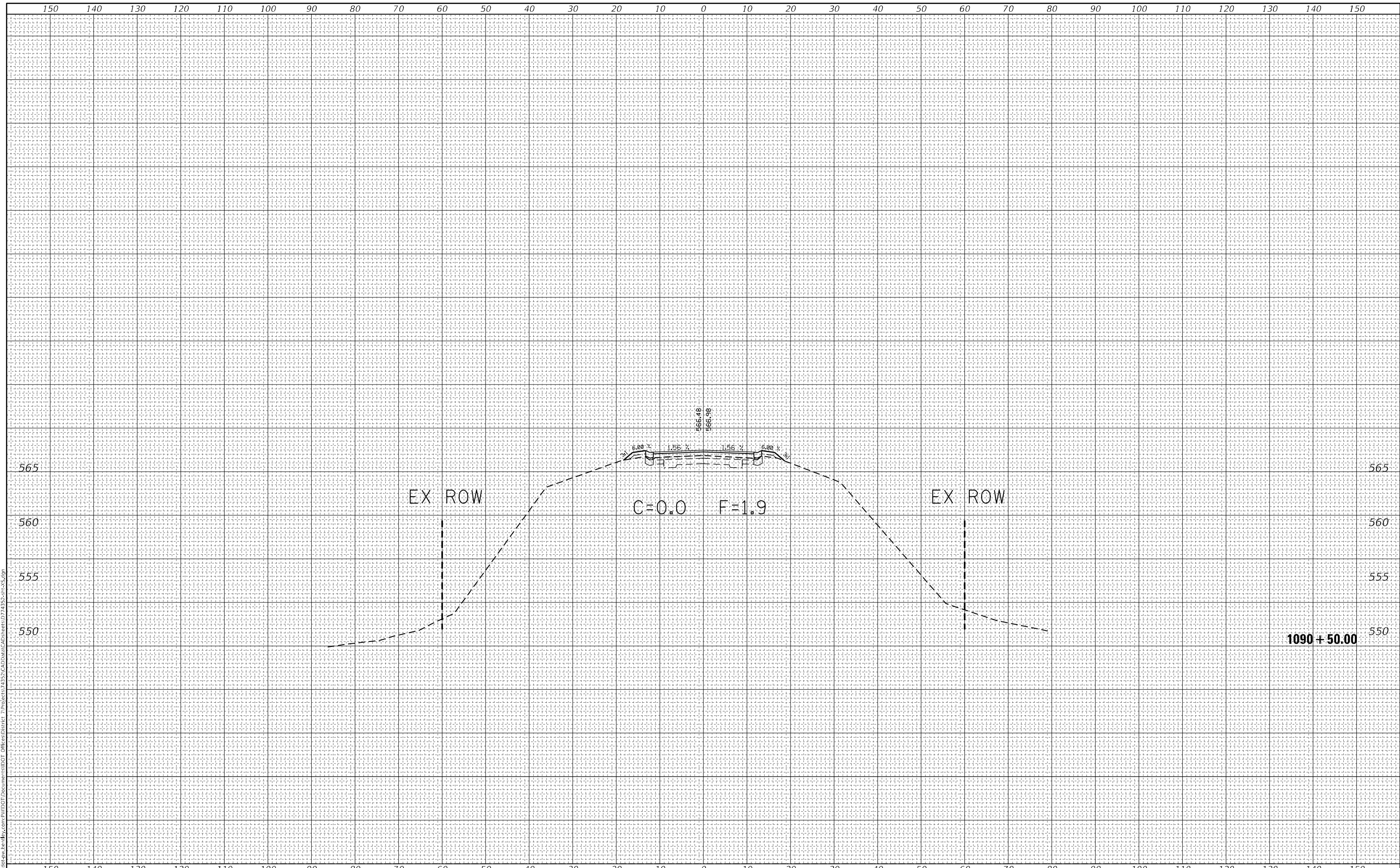
F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	54
CONTRACT NO. 74352				
ILLINOIS FED. AID PROJECT				



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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

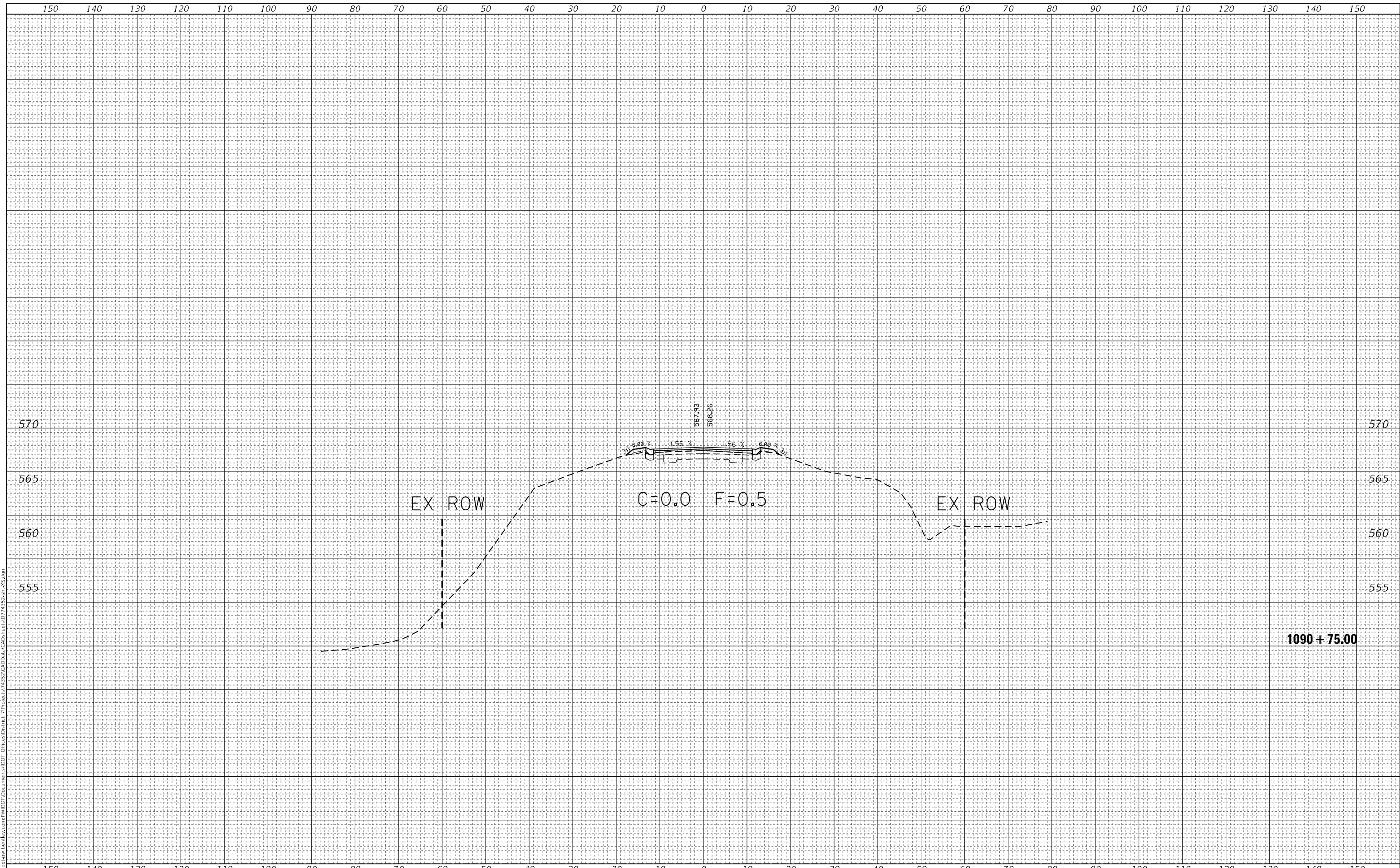
SCALE: SHEET 16 OF 20 SHEETS STA. 1090+50.00 TO STA. 1090+50.00

F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	56
				CONTRACT NO. 74352
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

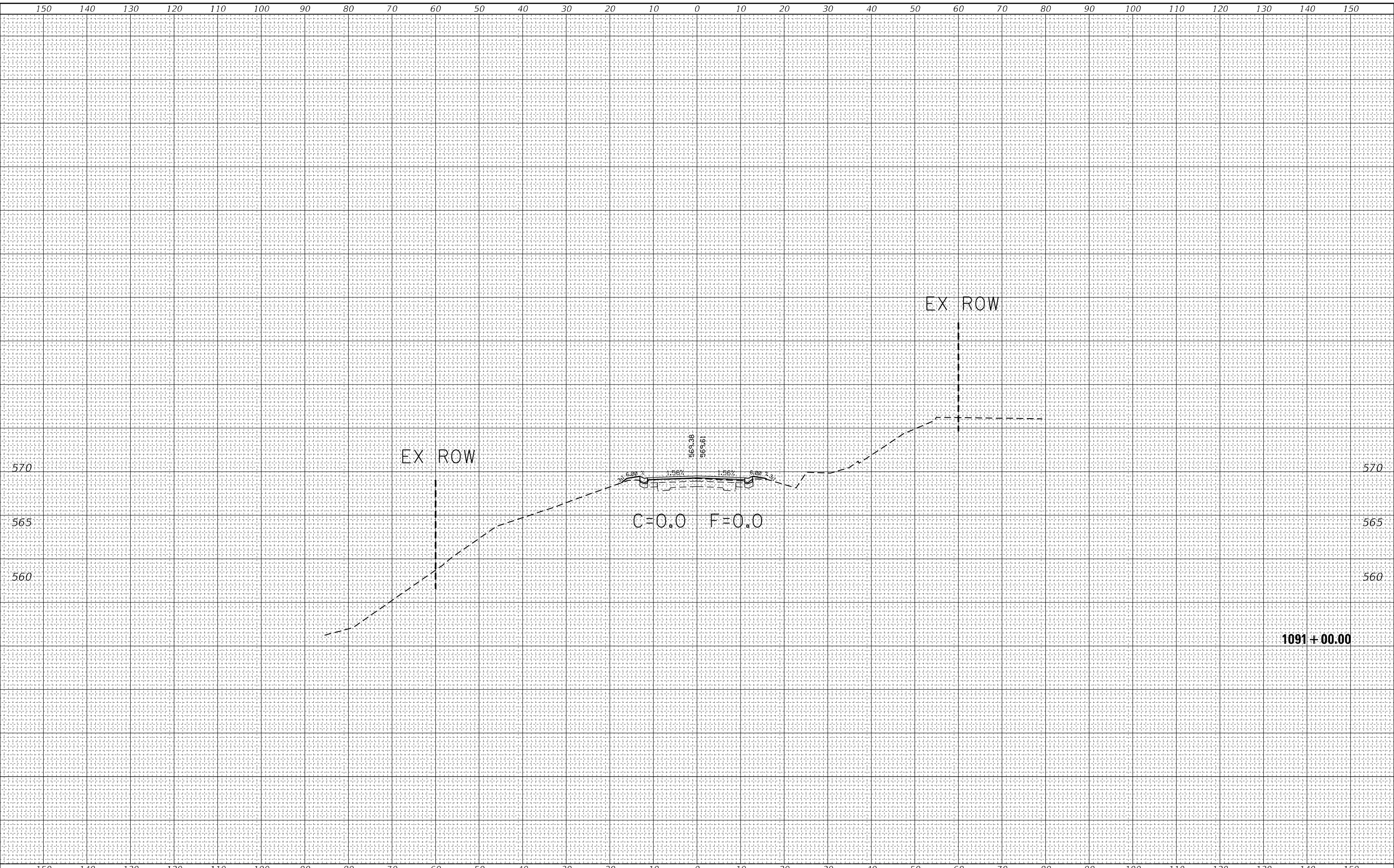
SCALE: SHEET 17 OF 20 SHEETS STA. 1090+75.00 TO STA. 1090+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	57
				CONTRACT NO. 74352
		ILLINOIS	FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

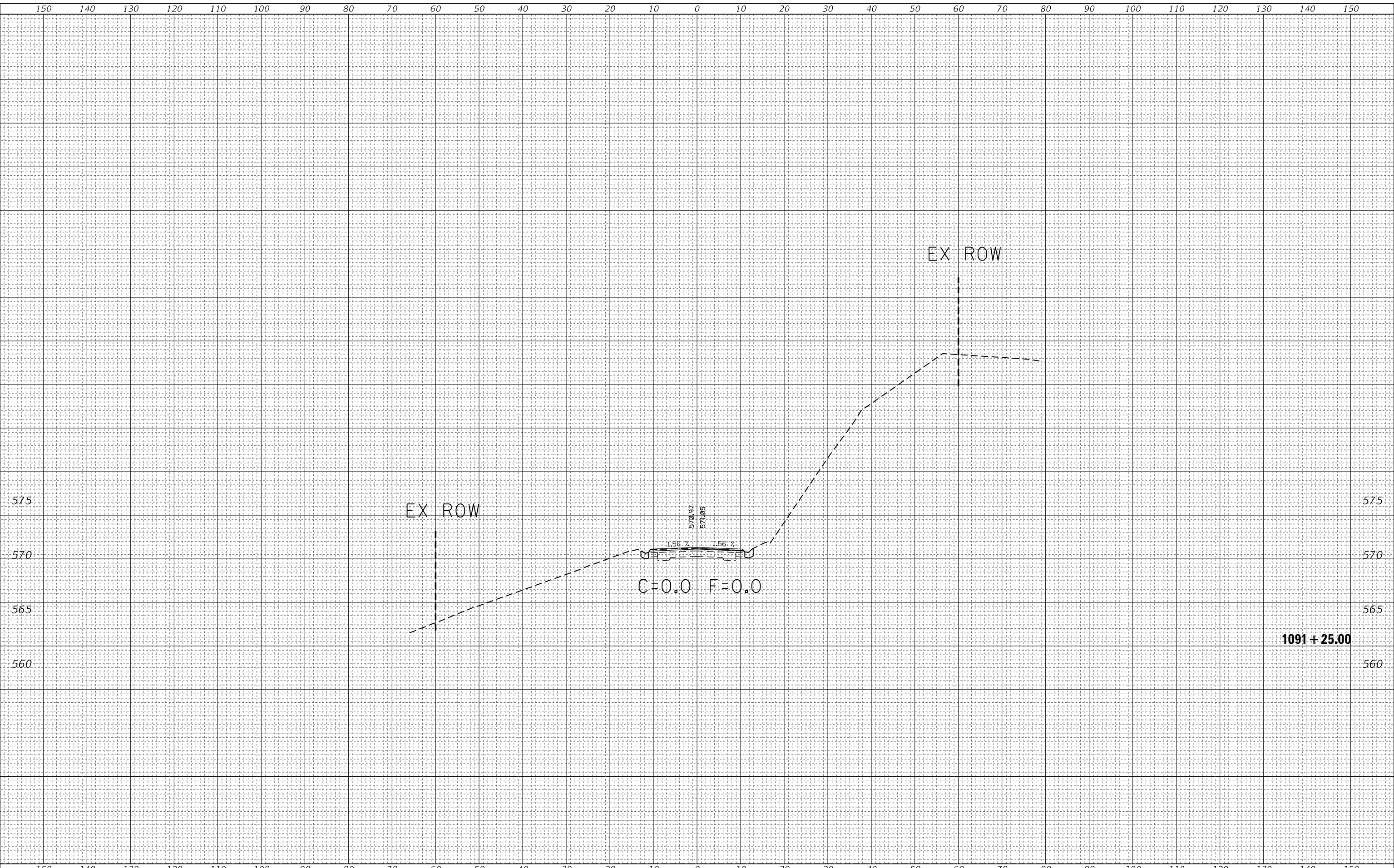
SCALE: SHEET 18 OF 20 SHEETS STA. 1091+00.00 TO STA. 1091+00.00

F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	58
				CONTRACT NO. 74352
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

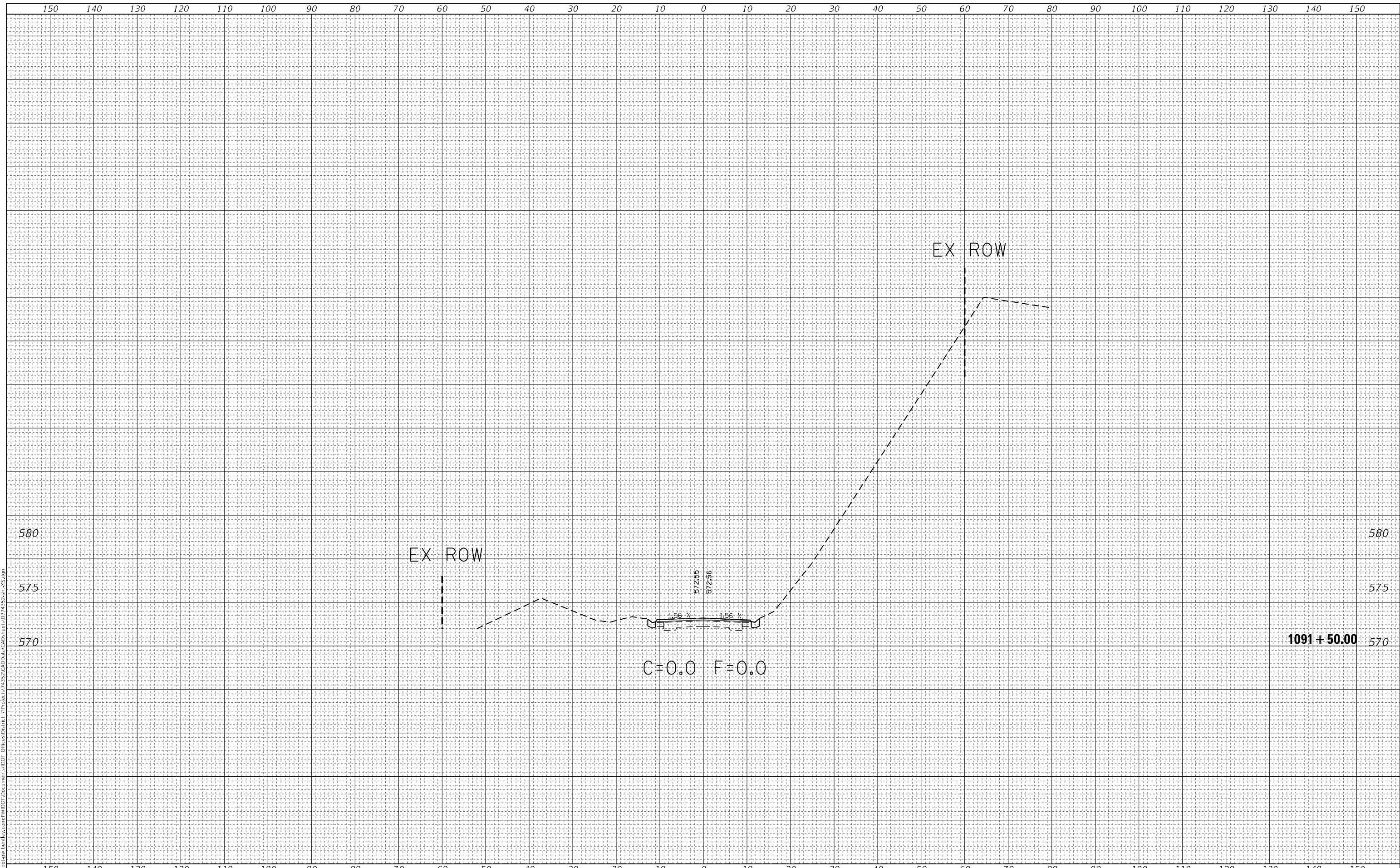
SCALE: SHEET 19 OF 20 SHEETS STA. 1091+25.00 TO STA. 1091+25.00

F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	59
				CONTRACT NO. 74352
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 20 OF 20 SHEETS STA. 1091+50.00 TO STA. 1091+50.00

F.A.S.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(103BR)B-1	EFFINGHAM	60	60
				CONTRACT NO. 74352
		ILLINOIS	FED. AID PROJECT	